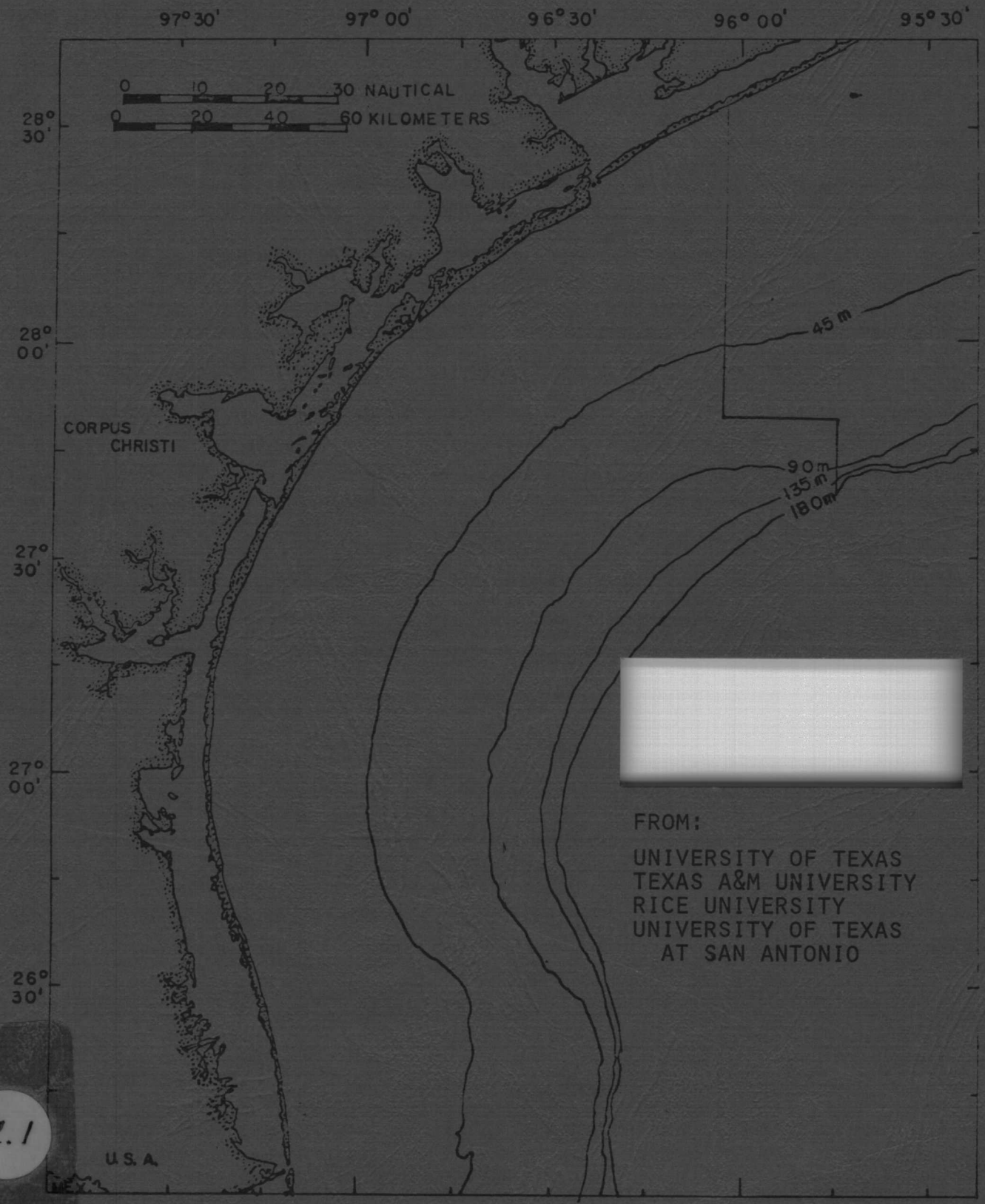


ENVIRONMENTAL STUDIES,  
SOUTH TEXAS OUTER CONTINENTAL SHELF,  
BIOLOGY AND CHEMISTRY



FROM:  
UNIVERSITY OF TEXAS  
TEXAS A&M UNIVERSITY  
RICE UNIVERSITY  
UNIVERSITY OF TEXAS  
AT SAN ANTONIO

C.1

ENVIRONMENTAL STUDIES,  
SOUTH TEXAS OUTER CONTINENTAL SHELF,  
BIOLOGY AND CHEMISTRY

Submitted to:

The Bureau of Land Management  
Washington, D. C. 20240

by

The University of Texas Marine Science Institute  
Port Aransas Marine Laboratory  
Port Aransas, Texas 78373

Acting for and on behalf  
of a consortium program  
conducted by:

Rice University  
Texas A&M University  
University of Texas

FINAL REPORT 1977  
Contract AA550-CT7-11

VOLUME V  
APPENDICES J - M

January 15, 1979

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PHYTOPLANKTON AND PRODUCTIVITY

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TABLE 1

PHYTOPLANKTON SPECIES COUNTS  
RANK ORDER OF SPECIES ABUNDANCE BY SAMPLING DATE, DEPTH AND STATION

Explanation of Table:

DIN - Dinoflagellates  
DIA - Diatoms  
OTH - Other

WINTER	TRANSECT	I	STATION 1	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
59936	OTH	UNIDENTIFIED FLAGELLATES		
39321	DIA	DITYLUM BRIGHTWELLII		
13743	DIA	SKELETONEMA COSTATUM		
12980	DIA	CHAETOCEROS DECIPIENS		
8017	DIA	RHIZOSOLENIA ALATA V. ALATA		
8017	DIN	GONYAULAX MINIMA		
7444	DIA	CHAETOCEROS SPP.		
6108	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA		
3245	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
2100	DIA	NITZSCHIA PACIFICA		
2100	DIA	RHIZOSOLENIA DELICATULA		
1718	DIN	UNIDENTIFIED DINOFLAGELLATES		
1527	DIA	LAUDERIA BOREALIS		
1336	DIA	HEMIAULUS HAUCKII		
1145	DIA	RHIZOSOLENIA ALATA V. INDICA		
764	DIA	RHIZOSOLENIA STOLTERFOTHII		
573	DIA	EUCAMPIA ZODIACUS		
573	DIA	RHIZOSOLENIA STYLIFORMIS		
382	DIA	THALASSIONEMA NITZSCHIOIDES		
382	DIA	RHIZOSOLENIA SETIGERA		
382	DIA	UNIDENTIFIED CENTRIC		
382	DIA	UNIDENTIFIED PENNATE		
191	DIA	NAVICULA DISTANS		
191	DIA	CHAETOCEROS GRACILIS		
191	DIA	AMPHIPRORA GIGANTEA		
191	DIA	DIPLONEIS CRABRO		
191	DIA	CHAETOCEROS PERUVIANUS		
191	DIN	OXYTOXUM SPP.		

.....  
 173321 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.08727

WINTER	TRANSECT	I	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
47338	DIA	DITYLUM BRIGHTWELLII		
38558	OTH	UNIDENTIFIED FLAGELLATES		
15652	DIA	NITZSCHIA SERIATA		
7253	DIA	SKELETONEMA COSTATUM		
6108	DIA	CHAETOCEROS DECIPIENS		
5154	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA		
4390	DIA	HEMIAULUS HAUCKII		
3189	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
2863	DIA	RHIZOSOLENIA STOLTERFOTHII		
2672	DIA	RHIZOSOLENIA ALATA V. ALATA		
2481	DIA	UNIDENTIFIED CENTRIC		
2100	DIA	CHAETOCEROS SPP.		
2100	DIA	RHIZOSOLENIA FRAGILLISSIMA		
1909	DIN	GONYAULAX MINIMA		
1336	DIA	CHAETOCEROS ATLANTICUS		
1145	DIA	THALASSIONEMA NITZSCHIOIDES		
954	DIA	UNIDENTIFIED PENNATE		
764	DIA	RHIZOSOLENIA SETIGERA		
764	DIA	NAVICULA DISTANS		
573	DIA	COSCINODISCUS SPP.		
573	DIA	CHAETOCEROS GRACILIS		
382	DIA	THALASSIOTHRIX FRAUNFELDII		
382	DIA	GUINARDIA FLACCIDA		
382	DIA	RHIZOSOLENIA CALCAR AVIS		
191	DIA	CHAETOCEROS PERUVIANUS		
191	DIA	RHIZOSOLENIA IMBRICATA		
191	DIA	PLEUROSIGMA SP. 1 (SMALL)		

.....  
 149595 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.17799

WINTER	TRANSECT	I	STATION 2	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
1400	DIA	UNIDENTIFIED CENTRIC		
1160	DIA	NITZSCHIA SERIATA		
880	OTH	UNIDENTIFIED FLAGELLATES		
280	DIA	THALASSIONEMA NITZSCHIOIDES		
260	DIA	GUINARDIA FLACCIDA		
200	DIA	CHAETOCEROS SPP.		
180	DIA	SKELETONEMA COSTATUM		
180	DIA	RHIZOSOLENIA STOLTERFOTHII		
180	DIA	CHAETOCEROS DECIPIENS		
160	DIA	RHIZOSOLENIA FRAGILLISSIMA		
160	DIA	UNIDENTIFIED PENNATE		
100	DIA	THALASSIOTHRIX FRAUNFELDII		
100	DIA	NAVICULA SPP.		
80	DIA	CHAETOCEROS COMPRESSUS		
60	DIA	DIPLONEIS CRABRO		
60	DIA	RHIZOSOLENIA ALATA V. ALATA		
60	DIA	NITZSCHIA LONGISSIMA		
40	DIA	COSCINODISCUS SPP.		
40	DIA	FRAGILARIA SPP.		
40	DIA	HEMIAULUS MEMBRANACEOUS		
40	DIN	GONYAULAX MINIMA		
40	DIA	PLEUROSIGMA SPP.		
20	DIA	HEMIAULUS HAUCKII		
20	DIA	CHAETOCEROS PERUVIANUS		
20	DIN	PROROCENTRUM SPP.		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIA	NAVICULA DISTANS		
20	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA		

.....

5820 =TOTAL ABUNDANCE                      -DIVERSITY = 3.61103



WINTER	TRANSECT	I	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
1420	OTH	UNIDENTIFIED FLAGELLATES		
980	DIA	NITZSCHIA SERIATA		
400	DIN	UNIDENTIFIED DINOFLAGELLATES		
400	DIA	STREPTOTHECA THAMESIS		
340	DIA	CHAETOCEROS DECIPIENS		
280	DIA	UNIDENTIFIED PENNATE		
260	DIA	EUCAMPYA ZODIACUS		
260	DIA	UNIDENTIFIED CENTRIC		
220	DIA	THALASSIONEMA NITZSCHIOIDES		
180	DIA	CHAETOCEROS PURPUSILLUS		
140	DIN	OXYTOXUM RETICULATUM		
140	DIA	CHAETOCEROS SPP.		
140	DIA	NAVICULA SPP.		
120	DIA	CHAETOCEROS COMPRESSUS		
100	DIA	PLEUROSIGMA SPP.		
100	DIA	DIPLONEIS CRABRO		
60	DIN	GONYAULAX MINIMA		
60	DIA	RHIZOSOLENIA CASTRACANEI		
60	DIA	NITZSCHIA LONGISSIMA		
60	DIA	NAVICULA DISTANS		
40	DIA	THALASSIOTHRIX FRAUNFELDII		
40	DIN	PROROCENTRUM SPP.		
40	DIA	GUINARDIA FLACCIDA		
40	DIA	COSCINODISCUS SPP.		
20	DIA	BACTERIASTRUM DELICATULUM		
20	DIA	RHIZOSOLENIA ALATA V. INDICA		
20	SIL	EBRIA ANTIQUA		
20	DIN	PROROCENTRUM GRACILE		

.....  
5960 =TOTAL ABUNDANCE

.....  
DIVERSITY = 3.88023

WINTER	TRANSECT	I	STATION 3	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
23478	DIA	SKELETONEMA COSTATUM		
18133	DIA	NITZSCHIA SERIATA		
12025	DIA	CHAETOCEROS DECIPIENS		
10689	DIA	CHAETOCEROS CURVISETUS		
7635	DIA	RHIZOSOLENIA FRAGILLISSIMA		
6871	DIA	EUCAMPYA ZODIACUS		
6871	DIA	CHAETOCEROS ATLANTICUS		
6489	DIA	CHAETOCEROS SPP.		
5726	DIA	RHIZOSOLENIA STOLTERFOTHII		
3435	DIA	THALASSIOTHRIX MEDITERRANES		
3054	DIA	UNIDENTIFIED PENNATE		
2481	DIA	NITZSCHIA LONGISSIMA		
1527	DIA	STREPTOTHECA THAMESIS		
1336	DIA	LAUDERIA BOREALIS		
1145	DIN	UNIDENTIFIED DINOFLAGELLATES		
954	DIA	THALASSIOTHRIX FRAUNFELDII		
954	DIA	SYNEDRA SPP.		
763	DIA	RHIZOSOLENIA ALATA V. GRACILLIMA		
572	DIA	NAVICULA SPP.		
572	DIA	UNIDENTIFIED CENTRIC		
572	DIA	THALASSIONEMA NITZSCHIOIDES		
381	DIA	THALASSIOSIRA SPP.		
190	DIA	DIPLONEIS CRABRO		
190	DIA	PLEUROSIGMA SPP.		
190	DIA	DITYLUM BRIGHTWELLII		
190	DIA	NITZSCHIA CLOSTERIUM		
190	DIN	GYRODINIUM FUSIFORME		

.....  
 116613 =TOTAL ABUNDANCE                      DIVERSITY = 3.73064

WINTER	TRANSECT	I	STATION 3	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
25577	DIA	NITZSCHIA PACIFICA		
19088	DIA	CHAETOCEPOS SPP.		
16415	DIA	LEPTOCYLINDRUS MINIMUS		
14506	DIA	CHAETOCEROS ATLANTICUS		
11071	DIA	SKELETONEMA COSTATUM		
10689	DIA	CHAETOCEROS DECIPIENS		
9544	DIA	RHIZOSOLENIA STOLTERFOTHII		
8780	DIA	RHIZOSOLENIA FRAGILLISSIMA		
7635	DIA	BACTERIASTRUM VARIANS		
6489	DIA	CHAETOCEROS CURVISETUS		
5344	DIA	NITZSCHIA SERIATA		
3817	DIA	THALASSIOTHRIX FRAUNFELDII		
3817	DIA	EUCAMPYA ZODIACUS		
3435	DIN	UNIDENTIFIED DINOFLAGELLATES		
3435	DIA	NITZSCHIA SP. 1 (CURVE-CHAIN)		
2672	DIA	THALASSIOTHRIX MEDITERRANES		
1908	DIA	CHAETOCEROS COMPRESSUS		
1908	DIA	HEMIAULUS HAUCKII		
1527	DIA	NITZSCHIA SPP.		
1145	DIA	LAUDERIA BOREALIS		
1145	DIA	GUINARDIA FLACCIDA		
763	DIA	UNIDENTIFIED PENNATE		
381	DIA	NITZSCHIA LONGISSIMA		
381	DIA	NAVICULA SPP.		
381	DIA	DIPLONEIS CRABRO		
381	DIA	CORETHRON HYSTRIX		

.....

162234 =TOTAL ABUNDANCE

DIVERSITY = 4.00342

WINTER	TRANSECT	II	STATION	1	SURFACE
ABUNDANCE	CLASS	SPECIES			
CELLS/LITER					
167593	DIA	SKELETONEMA COSTATUM			
33977	DIA	DITYLUM BRIGHTWELLII			
10689	DIA	RHIZOSOLENIA ALATA V. ALATA			
10308	DIA	CHAETOCEROS DECIPIENS			
8399	DIA	CHAETOCEROS SPP.			
6108	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)			
4199	DIA	HEMIAULUS HAUCKII			
3818	DIA	STEPHANOPYXIS PALMERIANA			
2672	OTH	UNIDENTIFIED FLAGELLATES			
2291	DIA	EUCAMPIA ZODIACUS			
1909	DIN	UNIDENTIFIED DINOFLAGELLATES			
1909	DIA	STREPTOTHECA THAMESIS			
1909	DIA	NITZSCHIA SERIATA			
1527	DIA	UNIDENTIFIED CENTRIC			
1527	DIA	UNIDENTIFIED PENNATE			
764	DIA	THALASSIOSIRA SPP.			
764	DIA	RHIZOSOLENIA SETIGERA			
764	DIA	RHIZOSOLENIA STYLIFORMIS			
764	DIA	RHIZOSOLENIA IMBRICATA			
382	DIN	PROROCENTRUM SPP.			
382	DIA	RHIZOSOLENIA FRAGILLISSIMA			
382	DIN	PERIDINIUM SPP.			
382	DIA	RHIZOSOLENIA STOLTERFOTHII			
382	DIA	NAVICULA DISTANS			

.....  
 263801 = TOTAL ABUNDANCE

.....  
 DIVERSITY = 2.17100

WINTER	TRANSECT	II	STATION 1	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
286320	DIA	SKELETONEMA COSTATUM		
28250	DIA	NITZSCHIA SERIATA		
25960	DIA	CHAETOCEROS DECIPIENS		
23669	DIA	DITYLUM BRIGHTWELLII		
14507	DIA	CHAETOCEROS SPP.		
12900	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
11453	DIA	UNIDENTIFIED CENTRIC		
11453	DIA	RHIZOSOLENIA DELICATULA		
10689	OTH	UNIDENTIFIED FLAGELLATES		
10689	DIA	HEMIAULUS HAUCKII		
10689	DIA	RHIZOSOLENIA ALATA V. ALATA		
9162	DIA	CHAETOCEROS COMPRESSUS		
6108	DIA	UNIDENTIFIED PENNATE		
3818	DIA	RHIZOSOLENIA STOLTERFOTHII		
2291	DIA	LITHODESMIUM UNDULATUM		
1527	DIA	CHAETOCEROS GRACILIS		
1527	DIA	EUCAMPYA ZODIACUS		
1527	DIA	NAVICULA DISTANS		
1527	DIA	STEPHANOPYXIS PALMERIANA		
1527	DIA	RHIZOSOLENIA SETIGERA		
764	DIN	PROROCENTRUM COMPRESSUM		
764	DIA	THALASSIOSIRA SPP.		
764	DIN	GONYAULAX MINIMA		
764	DIA	RHIZOSOLENIA STYLIFORMIS		

.....  
 478729 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 2.52375

WINTER	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
15217	DIA	SKELETONEMA COSTATUM		
5674	DIA	RHIZOSOLENIA ALATA V. ALATA		
5416	DIA	UNIDENTIFIED CENTRIC		
4127	DIA	RHIZOSOLENIA DELICATULA		
3869	DIA	THALASSIONEMA NITZSCHIOIDES		
3740	DIA	RHIZOSOLENIA STOLTERFOTHII		
3740	DIA	CHAETOCEROS SPP.		
2192	DIA	CHAETOCEROS DECIPIENS		
1805	DIA	CHAETOCEROS CURVISETUS		
1805	DIA	CHAETOCEROS ATLANTICUS		
1676	OTH	UNIDENTIFIED FLAGELLATES		
1548	DIA	UNIDENTIFIED PENNATE		
1548	DIA	PLEUROSIGMA SPP.		
1419	DIA	NITZSCHIA SERIATA		
1161	DIN	UNIDENTIFIED DINOFLAGELLATES		
1161	DIA	DITYLUM BRIGHTWELLII		
903	DIA	LAUDERIA BOREALIS		
903	DIA	THALASSIOSIRA NORDENSKIOLDII		
645	DIA	THALASSIOTHRIX FRAUNFELDII		
645	DIA	GUINARDIA FLACCIDA		
645	DIA	HEMIAULUS HAUCKII		
516	DIA	THALASSIOSIRA SPP.		
516	DIA	DIPLONEIS CRABRO		
387	DIA	NAVICULA SPP.		
258	DIN	OXYTOXUM SPP.		
258	DIA	RHIZOSOLENIA ALATA V. INDICA		
258	DIA	RHIZOSOLENIA FRAGILLISSIMA		
129	DIN	TRICERATIUM SPP.		
129	DIN	NOCTILUCA SPP.		
129	DIA	ASTEROMPHALUS SPP.		
129	DIN	PROROCENTRUM SPP.		
129	DIN	PROROCENTRUM COMPRESSUM		
129	DIA	RHIZOSOLENIA SETIGERA		
129	DIA	NAVICULA DISTANS		
129	DIN	PROROCENTRUM MICANS		
129	DIA	DIPLONEIS SPP.		
129	DIA	RHIZOSOLENIA ROBUSTA		
129	DIA	CHAETOCEROS PERUVIANUS		

.....  
63451 =TOTAL ABUNDANCE

.....  
DIVERSITY = 4.12418

WINTER	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
5440	DIA	SKELETONEMA COSTATUM		
3280	DIA	UNIDENTIFIED CENTRIC		
2480	DIA	RHIZOSOLENIA ALATA V. ALATA		
540	OTH	UNIDENTIFIED FLAGELLATES		
540	DIA	DITYLUM BRIGHTWELLII		
520	DIA	PLEUROSIGMA SPP.		
460	DIA	CHAETOCEROS DECIPIENS		
400	DIA	CHAETOCEROS SPP.		
360	DIA	RHIZOSOLENIA DELICATULA		
320	DIA	UNIDENTIFIED PENNATE		
300	DIA	NITZSCHIA SERIATA		
280	DIA	THALASSIOTHRIX FRAUNFELDII		
280	DIA	THALASSIOSIRA SPP.		
240	DIA	RHIZOSOLENIA FRAGILLISSIMA		
240	DIA	RHIZOSOLENIA STYLIFORMIS		
200	DIA	NAVICULA DISTANS		
200	DIA	EUCAMPYA ZODIACUS		
200	DIA	THALASSIONEMA NITZSCHIOIDES		
180	DIN	UNIDENTIFIED DINOFLAGELLATES		
160	DIA	STEPHANOPYXIS PALMERIANA		
160	DIA	HEMIAULUS HAUCKII		
120	DIA	NAVICULA SPP.		
120	DIN	AMPHIDINIUM SPP.		
100	DIA	RHIZOSOLENIA STOLTERFOTHII		
100	DIA	DIPLONEIS CRABRO		
80	DIA	LAUDERIA BOREALIS		
80	DIA	MELOSIRA SPP.		
80	DIA	COSGINODISCUS SPP.		
80	DIA	GUINARDIA FLACCIDA		
60	DIA	CHAETOCEROS MESSANENSIS		
60	DIA	EUCAMPYA CORNUTA		
40	DIA	CHAETOCEROS PERUVIANUS		
40	DIA	CHAETOCEROS ATLANTICUS		
40	DIA	RHIZOSOLENIA IMBRICATA		
20	DIN	CERATIUM FURCA		
20	DIN	PROROCENTRUM SPP.		
20	DIN	OXYTOXUM RETICULATUM		
20	DIN	PODOLAMPAS SPINIFERA		
20	DIN	GONYAULAX MINIMA		
20	DIN	CERATIUM TRICHOCEROS		
20	DIN	PERIDINIUM DIVERGENS		
20	DIA	RHIZOSOLENIA ROBUSTA		
20	DIA	NITZSCHIA LONGISSIMA		

.....  
 17960 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.68477

WINTER	TRANSECT	II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
70625	DIA	SKELETONEMA COSTATUM		
56500	DIA	NITZSCHIA SERIATA		
27868	DIA	NITZSCHIA PACIFICA		
16033	DIA	CHAETOCEROS CURVISETUS		
11071	DIA	NITZSCHIA SP. 1 (CURVE-CHAIN)		
9162	DIA	CHAETOCEROS SPP.		
7635	DIA	RHIZOLENIA FRAGILLISSIMA		
5726	DIA	UNIDENTIFIED PENNATE		
4962	DIA	HEMIAULUS HAUCKII		
4199	DIA	RHIZOLENIA STOLTERFOTHII		
3817	DIA	CHAETOCEROS RADIANUS		
3435	DIN	UNIDENTIFIED DINOFLAGELLATES		
3435	DIA	CHAETOCEROS DECIPIENS		
3435	DIA	RHIZOLENIA DELICATULA		
3435	DIA	CHAETOCEROS ATLANTICUS		
1908	DIA	NITZSCHIA LONGISSIMA		
1527	DIA	HEMIAULUS MEMBRANACEOUS		
1527	DIA	LAUDERIA BOREALIS		
1527	DIA	HYALODISCUS STELLIGERA		
1145	DIA	THALASSIONEMA NITZSCHIOIDES		
763	DIA	STREPTOTHECA THAMESIS		
763	DIA	THALASSIOTHRIX MEDITERRANES		
763	DIA	COSCIINODISCUS SPP.		
381	DIA	THALASSIOTHRIX FRAUNFELDII		
381	DIN	PERIDINIUM SPINIFERUM		
381	DIN	PROROCENTRUM SPP.		
381	DIA	THALASSIOSIRA SPP.		
381	DIA	DITYLUM BRIGHTWELLII		
381	DIA	BACTERIASTRUM VARIANS		

.....  
 243547 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.34394



WINTER	TRANSECT	II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
62266	DIA	NITZSCHIA PACIFICA		
46604	DIA	SKELETONEMA COSTATUM		
21392	DIA	CHAETOCEROS CURVISETUS		
8022	OTH	UNIDENTIFIED FLAGELLATES		
7640	DIA	LEPTOCYLINDRUS MINIMUS		
5348	DIA	CHAETOCEROS SPP.		
4584	DIA	RHIZOSOLENIA FRAGILLISSIMA		
4202	DIA	NITZSCHIA SERIATA		
3438	DIA	UNIDENTIFIED PENNATE		
3056	DIA	THALASSIOSIRA SPP.		
2674	DIA	RHIZOSOLENIA DELICATULA		
2326	DIA	CHAETOCEROS ATLANTICUS		
2292	DIA	EUCAMPIA ZODIACUS		
1910	DIA	RHIZOSOLENIA STOLTERFOTHII		
1528	DIA	THALASSIOTHRIX FRAUNFELDII		
1528	DIA	THALASSIONEMA NITZSCHIOIDES		
1146	DIA	NITZSCHIA SP. 1 (CURVE-CHAIN)		
1146	DIA	BACTERIASTRUM SPP.		
764	DIA	UNIDENTIFIED CENTRIC		
764	DIA	HEMIAULUS HAUCKII		
764	DIA	DITYLUM BRIGHTWELLII		
382	DIN	UNIDENTIFIED DINOFLAGELLATES		
382	DIA	RHIZOSOLENIA ALATA V. ALATA		
382	DIA	NAVICULA SPP.		
382	DIA	NITZSCHIA LONGISSIMA		
382	DIA	NITZSCHIA CLOSTERIUM		
382	DIA	CHAETOCEROS PERUVIANUS		
382	DIA	COSCINODISCUS SPP.		

.....  
 186068 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.12660

WINTER	TRANSECT III	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
93913	DIA	SKELETONEMA COSTATUM	
18706	DIN	UNIDENTIFIED DINOFLAGELLATES	
9162	DIA	DITYLUM BRIGHTWELLII	
9162	OTH	UNIDENTIFIED FLAGELLATES	
8017	DIN	GONYAULAX MINIMA	
6872	DIA	CHAETOCEROS DECIPIENS	
3436	DIA	CHAETOCEROS SPP.	
3436	DIA	HEMIAULUS HAUCKII	
3054	DIA	THALASSIOTHRIX FRAUNFELDI	
3054	DIA	STEPHANOPYXIS PALMERIANA	
2235	DIA	RHIZOSOLENIA ALATA V. ALATA	
1909	DIA	UNIDENTIFIED PENNATE	
1527	DIA	EUCAMPIA ZODIACUS	
1145	DIA	CHAETOCEROS GRACILIS	
1145	DIA	RHIZOSOLENIA DELICATULA	
1145	DIA	RHIZOSOLENIA FRAGILLISSIMA	
1145	DIA	NITZSCHIA SERIATA	
1145	DIN	GONYAULAX SPP.	
764	DIN	AMPHIDINIUM SPP.	
764	DIN	PROROCENTRUM COMPRESSUM	
764	DIA	UNIDENTIFIED CENTRIC	
382	DIN	PROROCENTRUM SPP.	
382	DIN	OXYTOXUM RETICULATUM	
382	DIA	RHIZOSOLENIA IMBRICATA	
382	DIN	OXYTOXUM SPP.	
382	DIA	NAVICULA DISTANS	
382	DIA	RHIZOSOLENIA STYLIFORMIS	
382	DIA	COSCINODISCUS SPP.	

.....  
 175174 =TOTAL ABUNDANCE                      DIVERSITY = 2.77552

WINTER	TRANSECT III	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
43073	DIA	SKELETONEMA COSTATUM	
12122	DIN	UNIDENTIFIED DINOFLAGELLATES	
11348	DIA	DITYLUM BRIGHTWELLII	
10833	DIA	RHIZOSOLENIA ALATA V. ALATA	
9800	DIA	CHAETOCEROS DECIPIENS	
5416	DIN	GONYAULAX MINIMA	
5416	DIA	EUCAMPPIA ZODIACUS	
3869	DIA	NITZSCHIA SERIATA	
2579	DIA	CHAETOCEROS SPP.	
2321	OTH	UNIDENTIFIED FLAGELLATES	
2063	DIA	CHAETOCEROS GRACILIS	
1548	DIA	UNIDENTIFIED CENTRIC	
1290	DIA	STEPHANOPYXIS PALMERIANA	
1290	DIA	HEMIAULUS HAUCKII	
1290	DIN	PROROCENTRUM COMPRESSUM	
1032	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
1032	DIN	AMPHIDINIUM SPP.	
1032	DIA	RHIZOSOLENIA DELICATULA	
516	DIA	RHIZOSOLENIA ALATA V. INDICA	
516	DIA	UNIDENTIFIED PENNATE	
516	DIN	POLYKRIKOS SCHWARTZII	
258	DIN	PERIDINIUM SPP.	
258	DIN	PERIDINIUM SPINIFERUM	
258	DIA	COSCINODISCUS SPP.	
258	DIA	CHAETOCEROS PERUVIANUS	
258	DIN	PROROCENTRUM MICANS	

.....  
 120192 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.35603

WINTER	TRANSECT III	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3360	OTH	UNIDENTIFIED FLAGELLATES	
540	DIN	UNIDENTIFIED DINOFLAGELLATES	
300	DIN	GYRODINIUM FUSIFORME	
280	DIA	RHIZOLENIA DELICATULA	
200	DIA	UNIDENTIFIED PENNATE	
160	DIA	CHAETOCEROS CURVISETUS	
140	DIA	RHIZOLENIA CASTRACANEI	
100	DIN	AMPHIDIINIUM SPP.	
80	DIN	GONYAULAX MINIMA	
80	DIA	THALASSIONEMA NITZSCHIOIDES	
60	DIA	CHAETOCEROS ATLANTICUS	
60	DIA	NITZSCHIA LONGISSIMA	
60	DIN	PROROCENTRUM COMPRESSUM	
40	DIN	AMPHISOLENIA BIDENTATA	
40	DIA	PLEUROSIGMA SPP.	
40	DIA	CHAETOCEROS SPP.	
20	DIA	DIPLONEIS CRABRO	
20	DIA	NAVICULA DISTANS	
20	DIA	NITZSCHIA SERIATA	
20	DIA	COSCINODISCUS SPP.	
20	DIA	THALASSIOSIRA SPP.	
20	DIN	GYMNODINIUM SPP.	
20	SIL	DICTYOCHA FIBULA	
20	DIA	DITYLUM BRIGHTWELLII	
20	DIA	RHIZOLENIA ALATA V. ALATA	
20	DIA	CHAETOCEROS DECIPIENS	

.....  
5740 =TOTAL ABUNDANCE

DIVERSITY = 2.57006

WINTER	TRANSECT III	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
7740	OTH	UNIDENTIFIED FLAGELLATES	
480	DIN	GYRODINIUM FUSIFORME	
280	DIA	RHIZOSOLENIA DELICATULA	
200	DIA	UNIDENTIFIED PENNATE	
200	DIN	UNIDENTIFIED DINOFLAGELLATES	
140	DIA	NITZSCHIA SERIATA	
80	DIA	UNIDENTIFIED CENTRIC	
80	DIN	GONYAULAX MINIMA	
80	DIA	NITZSCHIA LONGISSIMA	
80	DIA	COSCIDINODISCUS SPP.	
60	DIA	PLEUPOSIGMA SPP.	
60	DIA	THALASSIONEMA NITZSCHIOIDES	
60	DIA	DITYLUM BRIGHTWELLII	
60	DIN	GONYAULAX SPP.	
60	DIN	AMPHIDINIUM SPP.	
40	DIA	HEMIAULUS HAUCKII	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIA	NAVICULA SPP.	
20	DIA	SKELETONEMA COSTATUM	
20	DIA	RHIZOSOLENIA STOLTERFOTHII	

.....  
 9780 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 1.50483

WINTER	TRANSECT III	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2600	OTH	UNIDENTIFIED FLAGELLATES	
440	DIA	NITZSCHIA SERIATA	
400	DIN	UNIDENTIFIED DINOFLAGELLATES	
400	DIA	SKELETONEMA COSTATUM	
400	DIA	UNIDENTIFIED CENTRIC	
340	DIN	GYRODINIUM FUSIFORME	
220	DIA	THALASSIONEMA NITZSCHIOIDES	
160	DIA	CHAETOCEROS DECIPIENS	
120	DIA	UNIDENTIFIED PENNATE	
120	DIA	CHAETOCEROS SPP.	
100	DIA	STREPTOTHECA THAMESIS	
80	DIA	NAVICULA SPP.	
60	DIA	THALASSIOTHRIX FRAUNFELDII	
60	DIA	COSCINODISCUS SPP.	
40	DIN	GONYAULAX MINIMA	
40	DIA	NAVICULA DISTANS	
40	DIA	GUINARDIA FLACCIDA	
40	DIA	EUCAMPYA ZODIACUS	
40	DIA	DIPLONEIS CRABRO	
20	DIN	AMPHIDINIUM SPP.	
20	DIA	PLEUROSIGMA SPP.	
20	DIN	POLYKRIKOS SPP.	
20	DIA	HEMIAULUS HAUCKII	

.....  
 5780 =TOTAL ABUNDANCE                      DIVERSITY = 3.08657

WINTER      TRANSECT III      STATION 3      1/2 PHOTIC			
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
880	OTH	UNIDENTIFIED FLAGELLATES	
280	DIA	THALASSIONEMA NITZSCHIOIDES	
220	DIN	UNIDENTIFIED DINOFLAGELLATES	
220	DIN	GYRODINIUM FUSIFORME	
180	DIA	CHAETOCEROS DECIPIENS	
180	DIA	UNIDENTIFIED PENNATE	
180	DIA	SKELETONEMA COSTATUM	
180	DIA	UNIDENTIFIED CENTRIC	
120	DIA	CHAETOCEROS ATLANTICUS	
80	DIA	PLEUROSIGMA SPP.	
80	DIA	HEMIAULUS HAUCKII	
60	DIA	NAVICULA SPP.	
60	DIA	NITZSCHIA SERIATA	
60	DIA	CHAETOCEROS SPP.	
40	DIN	PROROCENTRUM COMPRESSUM	
40	DIA	RHIZOSOLENIA ALATA V. ALATA	
40	DIA	DIPLONEIS CRABRO	
40	DIA	COSCINODISCUS SPP.	
20	SIL	DICTYOCHA FIBULA	
20	DIA	THALASSIOSIRA SPP.	
20	DIA	RHIZOSOLENIA FRAGILLISSIMA	
20	DIA	RHIZOSOLENIA ALATA V. INDICA	
20	DIA	LAUDERIA BOREALIS	
20	DIA	DITYLUM BRIGHTWELLII	

.....  
 3060 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.75041

WINTER	TRANSECT	IV	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
50294	DIA	SKELETONEMA COSTATUM		
19602	DIA	DITYLUM BRIGHTWELLII		
19086	DIA	RHIZOSOLENIA ALATA V. ALATA		
7222	DIA	CHAETOCEROS DECIPIENS		
4385	OTH	UNIDENTIFIED FLAGELLATES		
4385	DIN	UNIDENTIFIED DINOFLAGELLATES		
4127	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
3353	DIA	HEMIAULUS HAUCKII		
2837	DIA	STEPHANOPYXIS PALMERIANA		
2837	DIA	EUCAMPRIA ZODIACUS		
2579	DIA	RHIZOSOLENIA DELICATULA		
2063	DIA	UNIDENTIFIED CENTRIC		
1805	DIA	CHAETOCEROS SIMPLEX		
1548	DIA	CHAETOCEROS SPP.		
1548	DIA	NITZSCHIA SERIATA		
1290	DIN	GONYAULAX MINIMA		
1032	DIN	PROOCENTRUM COMPRESSUM		
1032	DIA	UNIDENTIFIED PENNATE		
774	DIA	RHIZOSOLENIA IMBRICATA		
774	DIA	THALASSIOTHRIX FRAUNFELDII		
774	DIA	PLEUROSIGMA SPP.		
516	DIA	CHAETOCEROS PERUVIANUS		
516	DIA	RHIZOSOLENIA SETIGERA		
516	DIA	COSCIDODISCUS SPP.		
516	DIN	GYRODINIUM FUSIFORME		
258	DIA	NAVICULA SPP.		
258	DIA	RHIZOSOLENIA STYLIFORMIS		
258	DIN	OXYTOXUM SCEPTRUM		
258	DIA	RHIZOSOLENIA FRAGILLISSIMA		
258	DIA	RHIZOSOLENIA ALATA V. INDICA		
258	DIA	GUINARDIA FLACCIDA		

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 136959 =TOTAL ABUNDANCE                      DIVERSITY = 3.33818



WINTER	TRANSECT	IV	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
34819	DIA	SKELETONEMA COSTATUM		
20118	DIA	RHIZOSOLENIA ALATA V. ALATA		
15991	DIN	UNIDENTIFIED DINOFLAGELLATES		
11348	DIA	DITYLUM BRIGHTWELLII		
7480	DIA	CHAETOCEROS ATLANTICUS		
4900	OTH	UNIDENTIFIED FLAGELLATES		
4900	DIA	RHIZOSOLENIA DELICATULA		
3869	DIN	GONYAULAX MINIMA		
3353	DIA	EUCAMPYA ZODIACUS		
3095	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
2579	DIA	CHAETOCEROS SPP.		
1805	DIA	CHAETOCEROS SIMPLEX		
1805	DIA	HEMIAULUS HAUCKII		
1290	DIN	PROROCENTRUM COMPRESSUM		
1290	DIA	UNIDENTIFIED CENTRIC		
1290	DIA	UNIDENTIFIED PENNATE		
1290	DIA	CHAETOCEROS DECIPIENS		
774	DIA	THALASSIONEMA NITZSCHIOIDES		
774	DIA	NITZSCHIA SERIATA		
774	DIA	PLEUROSIGMA SPP.		
774	DIN	OXYTOXUM SCEPTUM		
774	DIA	RHIZOSOLENIA SETIGERA		
774	DIA	GUINARDIA FLACCIDA		
774	DIA	RHIZOSOLENIA FRAGILLISSIMA		
516	DIA	STEPHANOPYXIS PALMERIANA		
516	DIA	NAVICULA DISTANS		
516	DIA	RHIZOSOLENIA IMBRICATA		
516	DIN	PROROCENTRUM MICANS		
516	DIA	RHIZOSOLENIA STYLIFORMIS		
258	DIA	CHAETOCEROS PERUVIANUS		
258	DIN	AMPHIDINIUM SPP.		
258	DIA	AMPHIPRORA SPP.		
258	DIN	GYRODINIUM FUSIFORME		

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 130252 =TOTAL ABUNDANCE

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 DIVERSITY = 3.70066

WINTER	TRANSECT	IV	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
1420	DIA	CHAETOCEROS CURVISETUS		
920	OTH	UNIDENTIFIED FLAGELLATES		
380	DIA	SKELETONEMA COSTATUM		
340	DIA	STEPHANOPYXIS PALMERIANA		
320	DIA	RHIZOSOLENIA ALATA V. ALATA		
320	DIN	UNIDENTIFIED DINOFLAGELLATES		
300	DIA	CHAETOCEROS DECIPIENS		
300	DIA	DITYLUM BRIGHTWELLII		
240	DIA	PLEUROSIGMA SPP.		
220	DIA	UNIDENTIFIED PENNATE		
200	DIA	UNIDENTIFIED CENTRIC		
200	DIA	THALASSIONEMA NITZSCHIOIDES		
140	DIA	NITZSCHIA SERIATA		
80	DIA	NITZSCHIA LONGISSIMA		
80	DIA	HEMIAULUS HAUCKII		
80	DIN	GYRODINIUM FUSIFORME		
80	DIA	RHIZOSOLENIA FRAGILLISSIMA		
60	DIA	NAVICULA DISTANS		
60	DIA	CHAETOCEROS ATLANTICUS		
40	DIA	DIPLONEIS SPP.		
40	DIA	CHAETOCEROS SPP.		
40	DIA	DIPLONEIS CRABRO		
40	DIN	CERATIUM PENTAGONUM		
20	DIA	RHIZOSOLENIA ROBUSTA		
20	DIA	GUINARDIA FLACCIDA		
20	SIL	DICTYOCHA FIRULA		
20	DIA	LAUDERIA BOREALIS		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	NAVICULA SPP.		
20	DIN	PROROCENTRIUM COMPRESSUM		
20	DIN	POLYKRIKOS SCHWARTZII		

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 6060 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.95006

WINTER	TRANSECT	IV	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
820	DIA	PLEUROSIGMA SPP.		
640	OTH	UNIDENTIFIED FLAGELLATES		
560	DIA	RHIZOLENIA ALATA V. ALATA		
480	DIN	UNIDENTIFIED DINOFLAGELLATES		
380	DIA	NITZSCHIA SERIATA		
300	DIA	UNIDENTIFIED CENTRIC		
260	DIA	CHAETOCEROS SPP.		
220	DIA	UNIDENTIFIED PENNATE		
220	DIA	RHIZOLENIA DELICATULA		
160	DIN	GYRODINIUM FUSIFORME		
160	DIA	HEMIAULUS HAUCKII		
140	DIA	CHAETOCEROS DECIPIENS		
140	DIN	PROROCENTRUM COMPRESSUM		
120	DIA	THALASSIONEMA NITZSCHIOIDES		
120	DIA	SKELETONEMA COSTATUM		
120	DIA	NAVICULA DISTANS		
120	DIA	GUINARDIA FLACCIDA		
100	DIN	GONYAULAX MINIMA		
80	DIA	NAVICULA SPP.		
80	DIA	RHIZOLENIA ALATA V. INDICA		
80	DIA	DIPLONEIS CRABRO		
80	DIA	COSCONODISCUS SPP.		
80	DIA	DITYLUM BRIGHTWELLII		
60	DIA	STAURONEIS MEMBRANACEA		
60	DIA	STEPHANOPYXIS PALMERIANA		
60	DIA	THALASSIOSIRA SPP.		
60	DIA	NITZSCHIA LONGISSIMA		
40	DIA	CHAETOCEROS MESSANENSIS		
40	DIA	RHIZOLENIA CASTRACANEI		
40	DIA	LAUDERIA BOREALIS		
20	DIA	AMPHIPRORA SPP.		
20	DIN	AMPHIDINIUM SPP.		
20	DIN	GONYAULAX SPP.		
20	DIA	RHIZOLENIA STYLIFORMIS		
20	DIA	COSCONODISCUS CONCINNUS		

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5920 =TOTAL ABUNDANCE

DIVERSITY = 4.45398

WINTER	TRANSECT	IV	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
160	DIA	UNIDENTIFIED PENNATE		
140	DIA	SKELETONEMA COSTATUM		
120	DIA	LAUDERIA BOREALIS		
120	DIA	RHIZOLENIA FRAGILLISSIMA		
120	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	PLEUROSIGMA SPP.		
60	DIN	GYRODINIUM FUSIFORME		
40	DIA	NITZSCHIA LONGISSIMA		
40	DIA	RHIZOLENIA STOLTERFOTHII		
40	DIA	RHIZOLENIA ALATA V. ALATA		
22	OTH	UNIDENTIFIED FLAGELLATES		
20	DIN	GONYAULAX MINIMA		
20	DIN	GYMNODINIUM SPP.		
20	DIA	NAVICULA DISTANS		
20	DIA	UNIDENTIFIED CENTRIC		
20	DIN	OXYTOXUM SPP.		
20	DIN	ORNITHOCEROS STEINII		
20	DIA	COSCINODISCUS SPP.		
20	DIA	HEMIAULUS HAUCKII		

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 1102 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.81049

WINTER	TRANSECT	IV	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
260	DIA	NITZSCHIA SERIATA		
140	DIA	UNIDENTIFIED CENTRIC		
140	DIA	SKELETONEMA COSTATUM		
140	DIA	UNIDENTIFIED PENNATE		
40	DIA	THALASSIOTHRIX FRAUNFELDII		
40	OTH	UNIDENTIFIED FLAGELLATES		
40	DIN	UNIDENTIFIED DINOFLAGELLATES		
40	DIA	THALASSIONEMA NITZSCHIOIDES		
20	DIA	NITZSCHIA LONGISSIMA		
20	DIN	GYMNODINIUM SPP.		

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 880 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 2.84914

MARCH	TRANSECT II	STATION I	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
922148	DIA	SKELETONEMA COSTATUM	
12606	DIA	DITYLUM BRIGHTWELLII	
8399	DIN	PROROCENTRUM COMPRESSUM	
4963	DIN	UNIDENTIFIED DINOFLAGELLATES	
1910	DIA	CHAETOCEROS ATLANTICUS	
1909	DIA	THALASSIOTHRIX FRAUNFELDII	
1527	DIN	COCLODINIUM ARCHIMEDES	
1527	DIN	UNIDENTIFIED DINOFLAGELLATES	
1527	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
1145	DIN	GONYAULAX MINIMA	
1145	DIA	UNIDENTIFIED CENTRIC	
382	DIN	POLYKRIKOS SCHWARTZII	
382	DIN	PERIDINIUM SPP.	
382	DIA	RHIZOSOLENIA ALATA	
382	DIA	LAUDERIA BOREALIS	
382	DIA	NAVICULA SPP.	
382	DIA	HEMIAULUS HAUCKII	
382	DIA	PLEUROSIGMA SPP.	

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961480 =TOTAL ABUNDANCE                      DIVERSITY = .37387

MARCH	TRANSECT	II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
711219	DIA	SKELETONEMA COSTATUM		
500487	DIA	SKELETONEMA COSTATUM		
32831	DIN	UNIDENTIFIED DINOFLAGELLATES		
8780	DIA	DITYLUM BRIGHTWELLII		
7635	DIA	DITYLUM BRIGHTWELLII		
5345	DIN	PROROCENTRUM COMPRESSUM		
4772	DIN	GONYAULAX MINIMA		
4199	DIA	CHAETOCEROS ATLANTICUS		
3054	DIN	UNIDENTIFIED DINOFLAGELLATES		
3054	DIA	NITZSCHIA SPP.		
2672	DIN	PROROCENTRUM COMPRESSUM		
1909	DIA	NITZSCHIA SERIATA		
1909	DIN	UNIDENTIFIED DINOFLAGELLATES		
1527	DIA	THALASSIONEMA NITZSCHIOIDES		
1527	DIN	COCLODINIUM ARCHIMEDES		
1144	DIA	RHIZOSOLENIA ALATA		
764	DIN	GYRODINIUM FUSIFORME		
764	DIA	RHIZOSOLENIA SETIGERA		
764	DIA	COSCINODISCUS SPP.		
764	DIN	OXYTOXUM GLADIOLUS		
764	DIA	THALASSIONEMA NITZSCHIOIDES		
764	DIA	NITZSCHIA SERIATA		
382	DIN	PROROCENTRUM MICANS		
382	DIA	UNIDENTIFIED CENTRIC		
382	DIA	CHAETOCEROS PERUVIANUS		
382	DIN	PROROCENTRUM MICANS		
382	DIN	GYRODINIUM FUSIFORME		

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 1298558 =TOTAL ABUNDANCE                      DIVERSITY = 1.49793

MARCH	TRANSECT	II	STATION 1	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
81908	DIA	SKELETONEMA COSTATUM		
8017	DIA	DITYLUM BRIGHTWELLII		
7635	DIN	PROROCENTRUM COMPRESSUM		
4199	DIN	UNIDENTIFIED DINOFLAGELLATES		
2291	DIA	CHAETOCEROS SPP.		
2291	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
1527	DIA	THALASSIONEMA NITZSCHIOIDES		
1527	DIA	CHAETOCEROS ATLANTICUS		
1145	DIA	CHAETOCEROS DECIPIENS		
764	DIA	UNIDENTIFIED CENTRIC		
382	DIN	PERIDINIUM SPP.		
382	DIN	OXYTOXUM SPP.		
382	DIA	THALASSIOSIRA SPP.		
382	DIA	COSGINODISCUS SPP.		

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112832 =TOTAL ABUNDANCE	DIVERSITY = 1.67234
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MARCH	TRANSECT II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
658918	DIA	SKELETONEMA COSTATUM	
60148	DIA	SKELETONEMA COSTATUM	
12980	DIA	DITYLUM BRIGHTWELLII	
11071	DIA	DITYLUM BRIGHTWELLII	
8399	DIN	PROROCENTRUM COMPRESSUM	
6490	DIA	CHAETOCEROS ATLANTICUS	
4581	DIN	UNIDENTIFIED DINOFLAGELLATES	
2672	DIN	PROROCENTRUM COMPRESSUM	
2672	DIA	CERATAULINA BERGONII	
2672	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
2672	DIN	COCLODINIUM ARCHIMEDES	
2291	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
1909	DIN	UNIDENTIFIED DINOFLAGELLATES	
1909	DIA	LEPTOCYLINDRUS DANICUS	
1909	DIN	UNIDENTIFIED DINOFLAGELLATES	
1909	DIA	LEPTOCYLINDRUS DANICUS	
1527	DIN	COCLODINIUM ARCHIMEDES	
1527	DIA	CHAETOCEROS ATLANTICUS	
1527	DIN	GONYAULAX MINIMA	
1145	DIN	OXYTOXUM GLADIOLUS	
764	DIN	OXYTOXUM SPP.	
764	DIA	THALASSIOTHRIX FRAUNFELDII	
382	DIN	UNIDENTIFIED DINOFLAGELLATES	
382	DIN	PROROCENTRUM SPP.	
382	DIN	GYRODINIUM FUSIFORME	
382	DIA	UNIDENTIFIED CENTRIC	
382	DIA	THALASSIOSIRA SPP.	

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792366 =TOTAL ABUNDANCE

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DIVERSITY = 1.18875



MARCH	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
229582	DIA	SKELETONEMA COSTATUM		
4966	DIN	UNIDENTIFIED DINOFLAGELLATES		
4966	DIN	GYMNODINIUM SPP.		
3056	DIN	UNIDENTIFIED DINOFLAGELLATES		
1910	DIN	PROROCENTRUM COMPRESSUM		
1910	DIA	DITYLUM BRIGHTWELLII		
1528	DIN	GYRODINIUM SPP.		
1528	DIN	GONYAULAX MINIMA		
764	DIN	OXYTOXUM GLADIOLUS		
764	DIA	UNIDENTIFIED PENNATE		
382	DIA	RHIZOSOLENIA ALATA		

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251356 =TOTAL ABUNDANCE                      DIVERSITY = .68314

MARCH	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
153946	DIA	SKELETONEMA COSTATUM		
57491	DIA	SKELETONEMA COSTATUM		
9168	DIN	GYMNODINIUM SPP.		
7640	DIN	UNIDENTIFIED DINOFLAGELLATES		
5730	DIN	PROROCENTRUM COMPRESSUM		
5348	DIN	UNIDENTIFIED DINOFLAGELLATES		
4011	DIN	PROROCENTRUM COMPRESSUM		
3247	DIN	UNIDENTIFIED DINOFLAGELLATES		
3056	DIN	GYMNODINIUM SPP.		
2674	DIA	DITYLUM BRIGHTWELLII		
1910	DIA	DITYLUM BRIGHTWELLII		
1146	DIA	CHAETOCEROS SPP.		
764	DIN	UNIDENTIFIED DINOFLAGELLATES		
764	DIN	CERATIUM FURCA		
382	DIA	UNIDENTIFIED PENNATE		
382	DIN	TORODINIUM ROBUSTUM		
382	DIA	UNIDENTIFIED PENNATE		
382	DIA	RHIZOSOLENIA ALATA		
382	DIN	GYRODINIUM VARIANS		
191	DIN	GONYAULAX MINIMA		

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258996 =TOTAL ABUNDANCE                      DIVERSITY = 2.01875

MARCH	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
4920	DIA	SKELETONEMA COSTATUM		
2640	DIN	UNIDENTIFIED DINOFLAGELLATES		
300	DIA	RHIZOSOLENIA ALATA		
280	DIA	DITYLUM BRIGHTWELLII		
260	DIA	NITZSCHIA SERIATA		
240	DIN	GYRODINIUM FUSIFORME		
200	DIA	UNIDENTIFIED CENTRIC		
180	DIA	CHAETOCEROS SPP.		
160	DIA	RHIZOSOLENIA STOLTERFOTHII		
100	DIN	PROROCENTRUM COMPRESSUM		
100	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	LEPTOCYLINDRUS DANICUS		
60	DIA	UNIDENTIFIED PENNATE		
60	DIA	NITZSCHIA LONGISSIMA		
40	DIA	THALASSIOTHRIX FRAUNFELDII		
40	DIA	EUCAMPIA ZODIACUS		
20	DIN	OXYTOXUM SPP.		
20	DIN	GYMNODINIUM SPP.		
20	DIN	GONYAULAX MINIMA		
20	DIN	PERIDINIUM SPINIFERUM		
20	DIN	CERATIUM FUSUS		
20	DIA	PLEUROSIGMA SPP.		
20	DIA	DIPLONEIS CRABRO		

.....  
 9800 =TOTAL ABUNDANCE                      DIVERSITY = 2.37480

MARCH            TRANSECT    II        STATION 2    1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
5400	DIA	SKELETONEMA COSTATUM
4120	DIA	SKELETONEMA COSTATUM
3060	DIN	UNIDENTIFIED DINOFLAGELLATES
2440	DIN	UNIDENTIFIED DINOFLAGELLATES
1280	DIN	GYMNODINIUM SPP.
500	DIA	NITZSCHIA SERIATA
500	DIN	UNIDENTIFIED DINOFLAGELLATES
340	DIN	GYRODINIUM FUSIFORME
300	DIA	DITYLUM BRIGHTWELLII
280	DIA	CHAETOCEROS CURVISETUS
240	DIA	CHAETOCEROS CURVISETUS
200	DIA	NITZSCHIA SERIATA
180	DIA	DITYLUM BRIGHTWELLII
160	DIA	GUINARDIA FLACCIDA
140	DIA	RHIZOSOLENIA ALATA
140	DIN	GYRODINIUM SPP.
140	DIA	RHIZOSOLENIA ALATA
120	DIA	THALASSIOTHRIX FRAUNFELDII
120	DIN	COCCLODINIUM ARCHIMEDES
120	DIA	UNIDENTIFIED PENNATE
120	DIA	LEPTOCYLINDRUS DANICUS
120	DIA	CHAETOCEROS SPP.
120	DIA	CHAETOCEROS DECIPIENS
100	DIA	LEPTOCYLINDRUS DANICUS
100	DIN	PROROCENTRUM COMPRESSUM
80	DIN	PROROCENTRUM COMPRESSUM
80	DIA	CHAETOCEROS DECIPIENS
80	DIN	GONYAULAX MINIMA
60	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIN	GONYAULAX MINIMA
60	DIA	UNIDENTIFIED CENTRIC
60	DIN	OXYTOXUM GLADIOLUS
60	DIA	THALASSIOTHRIX FRAUNFELDII
60	DIA	PLEURGSIGMA SPP.
40	DIN	NOCTILUCA SPP.
40	DIA	NAVICULA SPP.
40	DIA	DIPLONEIS CRABRO
20	DIN	GYMNODINIUM SPP.
20	DIN	CERATIUM PENTAGONUM
20	DIA	STREPTOTHECA THAMESIS
20	DIA	RHIZOSOLENIA SETIGERA
20	DIA	NITZSCHIA LONGISSIMA
20	DIN	PERIDINIUM SPP.
20	DIN	GONYAULAX SCRIPPSAE
20	DIN	CERATIUM PENTAGONUM
20	DIA	UNIDENTIFIED CENTRIC
20	DIA	NAVICULA DISTANS
20	DIA	GUINARDIA FLACCIDA
20	DIA	NITZSCHIA LONGISSIMA

.....  
21300 =TOTAL ABUNDANCE.....  
DIVERSITY = 3.60231

MARCH	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
4060	DIN	UNIDENTIFIED DINOFLAGELLATES	
3940	DIN	GYMNODINIUM SPP.	
440	DIN	TORODINIUM ROBUSTUM	
220	DIA	CHAETOCEROS COARCTICUS	
200	DIN	UNIDENTIFIED DINOFLAGELLATES	
100	BLU	TRICHODESMIUM ERYTHRAEUM	
100	DIN	PROROCENTRUM COMPRESSUM	
60	DIN	GYMNODINIUM VARIANS	
60	DIN	NOCTILUCA SCINTILLANS	
40	DIN	GYRODINIUM SPP.	
20	DIN	CERATIUM FUSUS	

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9240 =TOTAL ABUNDANCE	DIVERSITY = 1.79473
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MARCH	TRANSECT	II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
59974	DIN	UNIDENTIFIED DINOFLAGELLATES		
7020	DIN	UNIDENTIFIED DINOFLAGELLATES		
4040	DIN	GYMNODINIUM SPP.		
3060	DIN	GYMNODINIUM SPP.		
660	DIN	TORODINIUM ROBUSTUM		
200	DIA	SKELETONEMA COSTATUM		
160	DIN	PROROCENTRUM COMPRESSUM		
160	DIN	GYRODINIUM FUSIFORME		
140	DIN	GYRODINIUM VARIANS		
140	DIA	NITZSCHIA SPP.		
120	DIA	LEPTOCYLINDRUS DANICUS		
100	DIN	PROROCENTRUM COMPRESSUM		
40	DIN	CERATIUM FUSUS		
40	DIA	UNIDENTIFIED PENNATE		
40	DIA	UNIDENTIFIED CENTRIC		
40	DIA	HEMIAULUS MEMBRANACEOUS		
40	DIN	NOCTILUCA SCINTILLANS		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIA	NAVICULA SPP.		
20	DIN	PROROCENTRUM MICANS		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIN	CERATIUM PENTAGONUM		
20	DIN	CERATIUM FUSUS		
20	DIA	UNIDENTIFIED PENNATE		

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76134 =TOTAL ABUNDANCE

.....  
DIVERSITY = 1.23500

MARCH	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2360	DIN	UNIDENTIFIED DINOFLAGELLATES	
520	DIN	UNIDENTIFIED DINOFLAGELLATES	
480	DIN	GYMNODINIUM SPP.	
460	DIN	GYRODINIUM FUSIFORME	
160	DIN	GYMNODINIUM WULFFII	
140	DIA	RHIZOLENIA ALATA	
120	DIA	STAURONEIS QUADRIPEDES	
80	DIA	NITZSCHIA SPP.	
40	DIA	GUINARDIA FLACCIDA	
40	DIN	GONYAULAX MINIMA	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	PERIDINIUM SPP.	
20	DIN	OXYTOXUM SPP.	
20	DIN	OXYTOXUM SCOLOPAX	
20	DIN	GYRODINIUM SPP.	
20	DIN	COCLODINIUM ARCHIMEDES	
20	DIA	NAVICULA SPP.	

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4540 = TOTAL ABUNDANCE	DIVERSITY = 2.45790
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MARCH	TRANSECT	II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
12180	DIN	UNIDENTIFIED DINOFLAGELLATES		
10280	DIN	UNIDENTIFIED DINOFLAGELLATES		
4300	DIN	GYMNODINIUM SPP.		
520	DIN	GYMNODINIUM SPP.		
260	DIN	GYRODINIUM SPP.		
240	DIN	UNIDENTIFIED DINOFLAGELLATES		
180	DIN	COCLODINIUM ARCHIMEDES		
140	DIA	STAURONEIS MEMBRANACEA		
120	DIA	UNIDENTIFIED PENNATE		
100	DIN	OXYTOXUM GLADIOLUS		
80	DIN	PROROCENTRUM COMPRESSUM		
80	DIA	NAVICULA SPP.		
60	DIN	GYRODINIUM VARIANS		
60	DIN	TORODINIUM ROBUSTUM		
40	DIN	NOCTILUCA SCINTILLANS		
40	DIN	PROROCENTRUM COMPRESSUM		
40	DIA	UNIDENTIFIED PENNATE		
40	DIN	GONYAULAX MINIMA		
40	DIA	CHAETOCEROS SPP.		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	DINOPHYSIS SPP.		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIA	UNIDENTIFIED CENTRIC		
20	DIN	NOCTILUCA SCINTILLANS		
20	DIN	CERATIUM PENTAGONUM		

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 28920 =TOTAL ABUNDANCE

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 DIVERSITY = 2.02795

APRIL	TRANSECT	II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
23302	DIA	CHAETOCEROS CURVISETUS		
15280	DIA	THALASSIOTHRIX FRAUNFELDI		
15280	DIA	CHAETOCEROS ATLANTICUS		
10696	DIA	SKELETONEMA COSTATUM		
10314	DIA	CHAETOCEROS DECIPIENS		
9550	DIA	RHIZOLENIA STOLTERFOTHI		
8786	DIA	NITZSCHIA SERIATA		
6112	DIA	RHIZOLENIA DELICATULA		
6112	DIA	CHAETOCEROS SPP.		
4966	DIA	RHIZOLENIA FRAGILLISSIMA		
3820	DIA	THALASSIONEMA NITZSCHIOIDES		
3438	DIN	UNIDENTIFIED DINOFLAGELLATES		
3056	DIA	CHAETOCEROS LORENZIANUS		
2292	DIA	RHIZOLENIA ALATA		
1910	DIA	DITYLUM BRIGHTWELLII		
1528	DIN	GYMNODINIUM SPP.		
1528	DIA	UNIDENTIFIED CENTRIC		
1528	DIA	PLEUROSIGMA SPP.		
1146	DIA	UNIDENTIFIED PENNATE		
1146	DIA	RHIZOLENIA SETIGERA		
1146	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
764	DIN	UNIDENTIFIED DINOFLAGELLATES		
764	DIN	TORODINIUM ROBUSTUM		
764	DIN	PROROCENTRUM COMPRESSUM		
764	DIA	BIDDULPHIA CHINENSIS		
382	DIN	PERIDINIUM SPP.		
382	DIN	GYRODINIUM SPP.		
382	DIN	CERATIUM TRIPOS		
382	DIN	CERATIUM HIRCUS		
382	DIN	CERATIUM FUSUS		
382	DIA	DIPLONEIS CRAIRO		

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 138284 =TOTAL ABUNDANCE

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 DIVERSITY = 4.07041



APRIL	TRANSECT II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
19100	DIA	SKELETONEMA COSTATUM	
12224	DIA	NITZSCHIA SERIATA	
11651	DIA	CHAETOCEROS CURVISETUS	
9741	DIA	RHIZOSOLENIA DELICATULA	
8022	DIA	CHAETOCEROS AFFINIS	
7067	DIA	CHAETOCEROS DECIPIENS	
6112	DIN	UNIDENTIFIED DINOFLAGELLATES	
5539	DIA	THALASSIONEMA NITZSCHIOIDES	
5157	DIA	RHIZOSOLENIA FRAGILLISSIMA	
5157	DIA	THALASSIOTHRIX FRAUNFELDII	
4966	DIA	UNIDENTIFIED CENTRIC	
3820	DIA	CHAETOCEROS SPP.	
3438	DIA	NITZSCHIA SPP.	
3438	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
3247	DIA	RHIZOSOLENIA STOLTERFOTHII	
2483	DIA	DITYLUM BRIGHTWELLII	
1719	DIA	UNIDENTIFIED PENNATE	
1719	DIA	CHAETOCEROS LORENZIANUS	
1337	DIA	EUCAMPYA ZODIACUS	
764	DIA	RHIZOSOLENIA ALATA	
764	DIA	COSCINODISCUS SPP.	
573	DIN	PROROCENTRUM COMPRESSUM	
573	DIA	PLEUROSIGMA SPP.	
382	DIN	TORODINIUM ROBUSTUM	
382	DIN	GYRODINIUM SPP.	
382	DIN	CERATIUM HIRCUS	
382	DIA	HEMIAULUS MEMBRANACEOUS	
382	DIA	HEMIAULUS HAUCKII	
191	DIN	PROROCENTRUM MICANS	
191	DIN	PERIDINIUM SPP.	
191	DIN	COCCLODINIUM ARCHIMEDES	
191	DIA	NITZSCHIA LONGISSIMA	
191	DIA	NAVICULA DISTANS	
191	DIA	DIPLONEIS CRABRO	

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 121667 =TOTAL ABUNDANCE

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 DIVERSITY = 4.19665

APRIL TRANSECT II STATION 1 1/2 PHOTIC			
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
32178	DIA	SKELETONEMA COSTATUM	
19188	DIA	CHAETOCEROS SPP.	
18336	DIA	NITZSCHIA SERIATA	
16999	DIA	CHAETOCEROS DECIPIENS	
16844	DIA	CHAETOCEROS AFFINIS	
13943	DIA	SKELETONEMA COSTATUM	
11842	DIA	CHAETOCEROS CURVIVSETUS	
11468	DIA	CHAETOCEROS CURVIVSETUS	
8444	DIA	THALASSIOTHRIX FRAUNFELDII	
5730	DIA	RHIZOSOLENIA FRAGILLISSIMA	
5348	DIA	RHIZOSOLENIA STOLTERFOTHII	
4775	DIA	THALASSIOTHRIX FRAUNFELDII	
4775	DIA	THALASSIONEMA NITZSCHIOIDES	
4775	DIA	RHIZOSOLENIA STOLTERFOTHII	
4584	DIA	CHAETOCEROS SPP.	
4282	DIA	THALASSIOSIRA SPP.	
3828	DIA	LEPTOCYLINDRUS DANICUS	
3438	DIA	THALASSIONEMA NITZSCHIOIDES	
3438	DIA	LEPTOCYLINDRUS MINIMUS	
3438	DIA	CHAETOCEROS DECIPIENS	
3456	DIA	UNIDENTIFIED CENTRIC	
3456	DIA	CHAETOCEROS COMPRESSUS	
3956	DIA	GUINARDIA FLACCIDA	
2674	DIN	GYMNODINIUM SPP.	
2674	DIA	CHAETOCEROS LORENZIANUS	
2483	DIA	CHAETOCEROS AFFINIS	
2292	DIN	PROROCENTRUM COMPRESSUM	
2292	DIA	CHAETOCEROS LACINIOSUS	
1910	DIA	UNIDENTIFIED CENTRIC	
1910	DIA	NITZSCHIA SPP.	
1910	DIA	PLEUROSIGMA SPP.	
1719	DIA	NITZSCHIA SPP.	
1719	DIA	NITZSCHIA SERIATA	
1719	DIA	COSCIINODISCUS SPP.	
1528	DIA	BACTERIASTRUM SPP.	
1337	DIA	DITYLUM BRIGHTWELLII	
1337	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)	
1146	DIN	GYRODINIUM SPP.	
1146	DIA	DITYLUM BRIGHTWELLII	
1146	DIA	HEMIAULUS HAUCKII	
955	DIA	NAVICULA MEMBRANACEA	
764	DIA	RHIZOSOLENIA FRAGILLISSIMA	
764	DIA	PLEUROSIGMA SPP.	
764	DIA	HEMIAULUS MEMBRANACEOUS	
764	DIN	UNIDENTIFIED DINOFLAGELLATES	
764	DIA	RHIZOSOLENIA ALATA	
764	DIA	HEMIAULUS MEMBRANACEOUS	
573	DIN	GYRODINIUM SPP.	
573	DIN	PERIDINIUM SPP.	
573	DIA	THALASSIOSIRA SPP.	
573	DIA	RHIZOSOLENIA SETIGERA	
382	DIN	TORODINIUM ROBUSTUM	
382	DIA	UNIDENTIFIED PENNATE	
382	DIA	RHIZOSOLENIA ALATA	
382	DIA	NAVICULA SPP.	
382	DIA	GUINARDIA FLACCIDA	
382	DIN	PERIDINIUM GLOBULUS	
382	DIN	COCLODINIUM ARCHIMEDES	
382	DIA	RHIZOSOLENIA ALATA V. INDICA	
382	DIA	NAVICULA SPP.	
382	DIA	AMPHIPROA GIGANTEA	
382	DIA	COSCIINODISCUS SPP.	
382	DIA	DIPLONEIS CRABRO	
191	DIN	PROROCENTRUM COMPRESSUM	
191	DIN	OXYTOXUM SCEPTRUM	
191	DIA	RHIZOSOLENIA ROBUSTA	
191	DIA	RHIZOSOLENIA CALCAR AVIS	
191	DIA	DIPLONEIS SPP.	
191	DIA	COSCIINODISCUS EXCENTRICUS	
191	DIN	PROROCENTRUM MICANS	

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 248491 =TOTAL ABUNDANCE                      DIVERSITY = 5.08411

APRIL	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2740	DIN	UNIDENTIFIED DINOFLAGELLATES		
2540	DIA	HEMIAULUS MEMBRANACEOUS		
640	DIA	THALASSIOTHRIX FRAUNFELDII		
640	DIA	CHAETOCEROS DECIPIENS		
260	DIA	RHIZOLENIA STOLTERFOTHII		
260	DIA	CHAETOCEROS COARCTICUS		
200	DIN	TORODINIUM ROBUSTUM		
200	DIA	UNIDENTIFIED CENTRIC		
200	DIA	CHAETOCEROS SPP.		
180	DIN	PROROCENTRUM COMPRESSUM		
140	DIA	CHAETOCEROS PERUVIANUS		
120	DIN	GONYAULAX SPP.		
100	DIA	THALASSIOSIRA SPP.		
60	DIN	PERIDINIUM SPP.		
40	BLU	TRICHODESMIUM SPP.		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	GYRODINIUM SPP.		
20	DIN	CERATIUM TRIPOS		
20	DIA	RHIZOLENIA ALATA V. INDICA		
20	DIA	COSCINODISCUS SPP.		
20	DIA	COSCINODISCUS EXCENTRICUS		

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8440 =TOTAL ABUNDANCE

.....  
DIVERSITY = 2.90145

APRIL	TRANSECT II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3440	DIN	UNIDENTIFIED DINOFLAGELLATES	
1100	DIA	HEMIAULUS MEMBRANACEOUS	
600	DIN	UNIDENTIFIED DINOFLAGELLATES	
480	DIA	CHAETOCEROS DECIPIENS	
320	DIA	CHAETOCEROS PERUVIANUS	
260	DIA	CHAETOCEROS SPP.	
200	DIA	THALASSIOSIRA SPP.	
160	DIN	GYMNODINIUM SPP.	
120	DIA	HEMIAULUS HAUCKII	
100	DIA	CHAETOCEROS COMPRESSUS	
100	DIA	THALASSIOTHRIX FRAUNFELDII	
80	DIN	TORODINIUM ROBUSTUM	
60	DIN	GYRODINIUM SPP.	
40	DIA	BACTERIASTRUM SPP.	
40	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	PERIDINIUM BROCHII	
20	DIN	CERATIUM SPP.	
20	DIN	CERATIUM TRICHOCEROS	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	UNIDENTIFIED CENTRIC	
20	DIA	LAUDERIA BOREALIS	
20	DIA	COSCINODISCUS EXCENTRICUS	

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 7240 =TOTAL ABUNDANCE                      DIVERSITY = 2.76590

APRIL	TRANSECT II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
5660	DIN	UNIDENTIFIED DINOFLAGELLATES	
3460	DIN	UNIDENTIFIED DINOFLAGELLATES	
1000	DIA	HEMIAULUS MEMBRANACEOUS	
840	DIA	HEMIAULUS MEMBRANACEOUS	
220	DIA	CHAETOCEROS PERUVIANUS	
180	DIA	CHAETOCEROS PERUVIANUS	
160	DIN	TORODINIUM ROBUSTUM	
140	DIN	UNIDENTIFIED DINOFLAGELLATES	
120	DIA	CHAETOCEROS SPP.	
120	DIA	CHAETOCEROS DECIPIENS	
120	DIN	UNIDENTIFIED DINOFLAGELLATES	
120	DIA	CHAETOCEROS DECIPIENS	
100	DIA	CHAETOCEROS SPP.	
80	DIN	PERIDINIUM SPP.	
80	DIN	GYRODINIUM SPP.	
80	DIA	THALASSIOTHRIX FRAUNFELDII	
60	DIN	TORODINIUM ROBUSTUM	
60	DIA	THALASSIOTHRIX FRAUNFELDII	
60	DIN	PROROCENTRUM COMPRESSUM	
60	DIA	UNIDENTIFIED PENNATE	
40	DIN	COCLODINIUM ARCHIMEDES	
40	DIN	COCLODINIUM SPP.	
40	DIN	PERIDINIUM SPP.	
40	DIA	UNIDENTIFIED CENTRIC	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	GYRODINIUM SPP.	
20	DIN	CERATIUM FUSUS	
20	DIA	THALASSIONEMA NITZSCHIOIDES	
20	DIA	LAUDERIA BOREALIS	
20	DIA	COSCINODISCUS EXCENTRICUS	
20	DIN	CERATIUM FUSUS	

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 13020 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 2.69244

APRIL	TRANSECT	II	STATION 3	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
5700	DIA	THALASSIOTHRIX FRAUNFELDII		
1680	DIA	CHAETOCEROS DECIPIENS		
1300	DIN	UNIDENTIFIED DINOFLAGELLATES		
260	DIA	NITZSCHIA SERIATA		
200	DIN	UNIDENTIFIED DINOFLAGELLATES		
180	DIN	GYRODINIUM SPP.		
160	DIN	TORODINIUM ROBUSTUM		
160	DIA	CHAETOCEROS PERUVIANUS		
120	DIN	GYMNODINIUM SPP.		
120	DIA	STREPTOTHECA THAMESIS		
120	DIA	LAUDERIA BOREALIS		
120	DIA	HEMIAULUS MEMBRANACEOUS		
100	DIA	RHIZOSOLENIA STOLTERFOTHII		
100	DIA	RHIZOSOLENIA FRAGILLISSIMA		
60	DIN	PROROCENTRUM COMPRESSUM		
60	DIA	COSCIDINODISCUS SPP.		
60	DIA	CHAETOCEROS ATLANTICUS		
40	BLU	TRICHODESMIUM SPP.		
40	DIN	COCLODINIUM ARCHIMEDES		
40	DIN	CERATIUM FURCA		
40	DIA	GUINARDIA FLACCIDA		
20	SIL	DICTYOCHA FIBULA		
20	DIA	NAVICULA SPP.		

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10700 =TOTAL ABUNDANCE                      DIVERSITY = 2.49199

APRIL	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
1920	DIN	UNIDENTIFIED DINOFLAGELLATES	
160	DIN	GYRODINIUM SPP.	
140	DIN	UNIDENTIFIED DINOFLAGELLATES	
80	DIN	TORODINIUM ROBUSTUM	
60	DIN	GONYAULAX SPP.	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	RHIZOSOLENIA ALATA	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	GYMNODINIUM SPP.	
20	DIN	OXYTOXUM SCOLOPAX	
20	DIA	NAVICULA SPP.	
20	DIA	HEMIAULUS MEMBRANACEOUS	
20	DIA	DIPLONEIS SPP.	
20	DIA	CHAETOCEROS PERUVIANUS	
20	DIN	COCLODINIUM ARCHIMEDES	

.....  
 2600 = TOTAL ABUNDANCE                      DIVERSITY = 1.69777

APRIL	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
1900	DIN	UNIDENTIFIED DINOFLAGELLATES	
1840	DIN	UNIDENTIFIED DINOFLAGELLATES	
300	DIN	UNIDENTIFIED DINOFLAGELLATES	
260	DIN	GYRODINIUM SPP.	
140	DIN	TORODINIUM ROBUSTUM	
140	DIN	GYRODINIUM SPP.	
100	DIN	TORODINIUM ROBUSTUM	
100	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIN	PROROCENTRUM COMPRESSUM	
60	DIN	GYMNODINIUM SPP.	
60	DIN	PROROCENTRUM COMPRESSUM	
40	BLU	TRICHODESMIUM SPP.	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	HEMIAULUS HAUCKII	
40	DIN	GYMNODINIUM SPP.	
40	DIA	RHIZOLENIA CALCAR AVIS	
20	DIN	GONYAULAX SPP.	
20	DIN	COCLODINIUM ARCHIMEDES	
20	DIN	CERATIUM PENTAGONUM	
20	DIN	CERATIUM MACROCEROS	
20	DIA	NITZSCHIA SPP.	
20	DIA	NAVICULA SPP.	
20	DIA	COSCINODISCUS EXCENTRICUS	
20	DIA	BACTERIASTRUM SPP.	
20	BLU	TRICHODESMIUM SPP.	
20	DIN	OXYTOXUM SPP.	
20	DIN	COCLODINIUM ARCHIMEDES	
20	DIN	CERATIUM SPP.	
20	DIN	CERATIUM TRIPOS	
20	DIN	CERATIUM FUSUS	
20	DIA	HEMIAULUS HAUCKII	
20	DIA	CHAETOCEROS PENDULUS	

.....  
5480 =TOTAL ABUNDANCE

.....  
DIVERSITY = 2.92843



SPRING	TRANSECT	I	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
6500	DIA	SKELETONEMA COSTATUM		
5440	DIA	CHAETOCEROS CURVISETUS		
2320	DIA	CHAETOCEROS SPP.		
2200	DIA	LEPTOCYLINDRUS DANICUS		
2160	DIA	THALASSIONEMA NITZSCHIOIDES		
1740	DIA	LAUDERIA SPP.		
1680	DIA	THALASSIOTHRIX FRAUNFELDII		
1300	DIA	RHIZOSOLENIA STOLTERFOTHII		
940	DIA	RHIZOSOLENIA FRAGILLISSIMA		
800	DIA	NITZSCHIA SPP.		
680	DIA	THALASSIOTHRIX MEDITERRANES		
420	DIA	CERATAULINA PELAGICA		
420	DIA	UNIDENTIFIED CENTRIC		
400	DIA	EUCAMPYA ZODIACUS		
400	DIA	GUINARDIA FLACCIDA		
400	DIA	CHAETOCEROS ATLANTICUS		
380	DIA	CHAETOCEROS AFFINIS		
360	DIN	GYMNODINIUM SPP.		
300	DIA	UNIDENTIFIED PENNATE		
300	DIA	PLEUROSIGMA SPP.		
220	DIA	RHIZOSOLENIA ALATA		
160	DIA	NAVICULA DISTANS		
140	DIN	UNIDENTIFIED DINOFLAGELLATES		
120	DIA	DITYLUM BRIGHTWELLII		
80	DIA	RHIZOSOLENIA SETIGERA		
80	DIA	RHIZOSOLENIA IMPRICATA		
80	DIA	HEMIAULUS HAUCKII		
60	BLU	TRICHODESMIUM SPP.		
60	DIN	PROROCENTRUM COMPRESSUM		
60	DIA	LAUDERIA BOREALIS		
60	DIA	COSCIODISCUS EXCENTRICUS		
40	DIN	GYRODINIUM SPP.		
40	DIN	CERATIUM HIRCUS		
40	DIA	RHIZOSOLENIA CALCAR AVIS		
20	DIN	PROROCENTRUM MICANS		
20	DIN	PROROCENTRUM GRACILE		
20	DIN	PERIDINIUM SPINIFERUM		
20	DIN	CERATIUM FUSUS		
20	DIA	DIPLONEIS CRABRO		
20	DIA	COSCIODISCUS SPP.		

.....  
 30500 = TOTAL ABUNDANCE

DIVERSITY = 3.90463

SPRING	TRANSECT	I	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
8440	DIA	CHAETOCEROS CURVISETUS		
6220	DIA	SKELETONEMA COSTATUM		
2340	DIA	THALASSIOTHRIX FRAUNFELDII		
2200	DIA	RHIZOSOLENIA STOLTERFOTHII		
2020	DIA	LEPTOCYLINDRUS DANICUS		
1860	DIA	NITZSCHIA SPP.		
1440	DIA	THALASSIONEMA NITZSCHIOIDES		
1260	DIA	LAUDERIA SPP.		
1120	DIA	RHIZOSOLENIA FRAGILLISSIMA		
780	DIA	NITZSCHIA SERIATA		
600	DIA	CHAETOCEROS SPP.		
580	DIA	CHAETOCEROS ATLANTICUS		
500	DIA	CHAETOCEROS AFFINIS		
400	DIA	UNIDENTIFIED PENNATE		
360	DIA	CERATAULINA PELAGICA		
320	DIA	PLEUROSIGMA SPP.		
280	DIA	EUCAMPYA ZODIACUS		
240	DIA	RHIZOSOLENIA SETIGERA		
220	DIA	UNIDENTIFIED CENTRIC		
200	DIN	GYMNODINIUM SPP.		
200	DIA	NAVICULA DISTANS		
180	DIA	GUINARDIA FLACCIDA		
160	DIA	NAVICULA MEMBRANACEA		
160	DIA	CHAETOCEROS DECIPIENS		
160	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
140	DIA	HEMIAULUS HAUCKII		
120	DIN	UNIDENTIFIED DINOFLAGELLATES		
100	BLU	TRICHODESMIUM SPP.		
100	DIA	RHIZOSOLENIA ROBUSTA		
100	DIA	DIPLONEIS CRABRO		
100	DIA	CHAETOCEROS DIDYMUS		
80	DIN	CERATIUM HIRCUS		
80	DIA	RHIZOSOLENIA CALCAR AVIS		
80	DIA	RHIZOSOLENIA ALATA		
80	DIN	GYRODINIUM SPP.		
40	DIA	LAUDERIA BOREALIS		
40	DIA	DITYLUM BRIGHTWELLII		
20	DIN	GONYAULAX MINIMA		
20	DIN	CERATIUM TRIPOS		
20	DIN	TORODINIUM ROBUSTUM		
20	DIA	RHIZOSOLENIA SPP.		
20	DIA	HEMIAULUS MEMBRANACEOUS		
20	DIA	COSCIINODISCUS SPP.		
20	DIN	DINOPHYSIS CAUDATA		
20	DIA	BIDDULPHIA SPP.		

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 33460 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.84860

SPRING	TRANSECT	I	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
16140	DIA	LEPTOCYLINDRUS DANICUS		
8680	DIA	SKELETONEMA COSTATUM		
6320	DIA	CHAETOCEROS SOCIALIS		
4900	DIA	THALASSIOTHRIX FRAUNFELDII		
3320	DIA	RHIZOSOLENIA STOLTERFOTHII		
1880	DIA	THALASSIONEMA NITZSCHIOIDES		
1120	DIA	EUCAMPYA ZODIACUS		
900	DIA	GUINARDIA FLACCIDA		
860	DIA	CHAETOCEROS BREVIS		
660	DIA	UNIDENTIFIED CENTRIC		
660	DIA	CHAETOCEROS SPP.		
600	DIA	NITZSCHIA SPP.		
500	DIA	CHAETOCEROS CURVISETUS		
460	DIA	LAUDERIA SPP.		
300	DIN	UNIDENTIFIED DINOFLAGELLATES		
300	DIA	RHIZOSOLENIA FRAGILLISSIMA		
300	DIA	CHAETOCEROS ATLANTICUS		
280	DIA	BACTERIASTRUM SPP.		
240	DIA	BIDDULPHIA SINENSIS		
220	DIA	RHIZOSOLENIA ALATA		
200	DIA	RHIZOSOLENIA IMBRICATA		
180	DIA	LAUDERIA BOREALIS		
160	DIA	RHIZOSOLENIA SETIGERA		
160	DIA	HEMIAULUS MEMBRANACEOUS		
140	BLU	TRICHODESMIUM SPP.		
120	DIA	CERATAULINA PELAGICA		
100	DIN	TORODINIUM ROBUSTUM		
100	DIN	AMPHIDIINIUM SPP.		
100	DIN	GYMNODINIUM SPP.		
80	DIN	PERIDIINIUM SPP.		
80	DIN	PERIDIINIUM SPINIFERUM		
60	DIN	PROROCENTRUM COMPRESSUM		
60	DIA	HEMIAULUS HAUCKII		
40	DIN	CERATIUM FURCA		
40	DIA	CHAETOCEROS AFFINIS		
40	DIA	RHIZOSOLENIA CALCAR AVIS		
40	DIA	PLEUROSIGMA SPP.		
40	DIA	NAVICULA DISTANS		
40	DIA	DITYLUM BRIGHTWELLII		
20	DIN	PROROCENTRUM MICANS		
20	DIN	OXYTOXUM SPP.		
20	DIN	NOCTILUCA SCINTILLANS		
20	DIN	GYRODINIUM SPP.		
20	DIN	GONYAULAX MINIMA		
20	DIN	CERATIUM FUSUS		
20	DIA	UNIDENTIFIED PENNATE		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	DIPLONEIS SPP.		

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50600 = TOTAL ABUNDANCE

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DIVERSITY = 3.39058

SPRING	TRANSECT	I	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
47941	DIA	LEPTOCYLINDRUS DANICUS		
18900	DIA	CHAETOCEROS SOCIALIS		
14325	DIA	SKELETONEMA COSTATUM		
12606	DIA	THALASSIOTHRIX FRAUNFELDII		
8595	DIA	RHIZOSOLENIA STOLTERFOTHII		
5539	DIA	THALASSIONEMA NITZSCHIOIDES		
5539	DIA	CHAETOCEROS BREVIS		
2292	DIA	EUCAMPYA ZODIACUS		
1528	DIA	CERATAULINA PELAGICA		
1146	DIA	UNIDENTIFIED CENTRIC		
955	DIA	GUINARDIA FLACCIDA		
764	DIN	UNIDENTIFIED DINOFLAGELLATES		
573	DIA	RHIZOSOLENIA ALATA		
382	DIA	LAUDERIA SPP.		
382	DIN	TORODINIUM ROBUSTUM		
382	DIN	DINOPHYSIS CAUDATA		
382	DIA	UNIDENTIFIED PENNATE		
382	DIA	LAUDERIA BOREALIS		
382	DIA	BIDDULPHIA SINENSIS		
191	BLU	TRICHODESMIUM SPP.		
191	DIN	PROROCENTRUM MICANS		
191	DIN	PROROCENTRUM COMPRESSUM		
191	DIN	COCLODINIUM ARCHIMEDES		
191	DIN	CERATIUM FURCA		
191	DIN	AMPHIDIINIUM SPP.		
191	DIA	RHIZOSOLENIA STYLIFORMIS		
191	DIA	RHIZOSOLENIA IMBRICATA		
191	DIA	RHIZOSOLENIA CALCAR AVIS		
191	DIA	PLEUROSIGMA SPP.		
191	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		

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 125105 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 2.99230

SPRING	TRANSECT	I	STATION 3	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
3120	DIN	GYMNODINIUM SPP.		
200	DIN	TORODINIUM ROBUSTUM		
160	DIN	GYRODINIUM SPP.		
100	DIA	THALASSIOTHRIX FRAUNFELDII		
60	BLU	TRICHODESMIUM SPP.		
40	DIN	CERATIUM FUSUS		
20	DIN	COCCLODINIUM ARCHIMEDES		
20	DIN	CERATIUM FURCA		
20	DIA	UNIDENTIFIED PENNATE		
20	DIA	UNIDENTIFIED CENTRIC		
20	DIA	RHIZOSOLENIA SETIGERA		

.....  
 3780 =TOTAL ABUNDANCE

DIVERSITY = 1.15088

SPRING	TRANSECT	I	STATION 3	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
660	DIA	THALASSIOTHRIX FRAUNFELDII		
160	BLU	TRICHODESMIUM SPP.		
140	DIN	GYRODINIUM SPP.		
120	DIN	COCCLODINIUM ARCHIMEDES		
100	DIA	NITZSCHIA SPP.		
80	DIN	TORODINIUM ROBUSTUM		
60	DIN	AMPHIDINIUM SPP.		
40	DIA	UNIDENTIFIED PENNATE		
40	DIA	RHIZOSOLENIA ALATA		
40	DIA	GUINARDIA FLACCIDA		
20	DIN	CERATIUM CARRIENSE		
20	DIN	PROROCENTRUM SPP.		
20	DIN	PROROCENTRUM COMPRESSUM		
20	DIN	PODOLAMPAS SPINIFERA		
20	DIN	OXYTOXUM SCOLOPAX		
20	DIN	GONYAULAX MINIMA		

.....  
 1560 =TOTAL ABUNDANCE

DIVERSITY = 3.00845

SPRING	TRANSECT	II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2540	DIA	RHIZOSOLENIA STOLTERFOTHII		
2200	DIA	LEPTOCYLINDRUS DANICUS		
620	DIA	NITZSCHIA SERIATA		
540	DIA	RHIZOSOLENIA ALATA		
460	DIA	BACTERIASTRUM SPP.		
440	DIN	PROROCENTRUM COMPRESSUM		
340	DIN	PROROCENTRUM MICANS		
300	DIN	UNIDENTIFIED DINOFLAGELLATES		
280	DIA	BIDDULPHIA SINENSIS		
260	DIA	GUINARDIA FLACCIDA		
240	DIA	UNIDENTIFIED CENTRIC		
200	DIA	LAUDERIA SPP.		
180	DIA	UNIDENTIFIED PENNATE		
160	DIA	RHIZOSOLENIA CALCAR AVIS		
160	DIA	PLEUROSIGMA SPP.		
140	DIN	TORODINIUM ROBUSTUM		
140	DIA	MELOSIRA DISTANS		
120	DIN	CERATIUM HIRCUS		
120	DIA	RHIZOSOLENIA ROBUSTA		
120	DIA	LAUDERIA BOREALIS		
120	DIA	HEMIAULUS MEMBRANACEOUS		
120	DIA	CHAETOCEROS AFFINIS		
100	DIA	CHAETOCEROS BREVIS		
80	DIA	CERATAULINA PELAGICA		
80	DIN	GYRODINIUM SPP.		
80	DIA	THALASSIOTHRIX FRAUNFELDII		
80	DIA	DITYLUM BRIGHTWELLII		
60	BLU	TRICHODESMIUM SPP.		
60	DIN	GYMNODINIUM SPP.		
60	DIA	THALASSIONEMA NITZSCHIOIDES		
60	DIA	NITZSCHIA SPP.		
60	DIA	COSCINODISCUS SPP.		
60	DIA	CHAETOCEROS SPP.		
40	DIN	GONYAULAX MINIMA		
40	DIA	HEMIAULUS HAUCKII		
20	DIN	PROROCENTRUM GRACILE		
20	DIN	PERIDINIUM SPP.		
20	DIN	PERIDINIUM SPINIFERUM		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	RHIZOSOLENIA SETIGERA		
20	DIA	RHIZOSOLENIA FRAGILLISSIMA		
20	DIA	CHAETOCEROS PERUVIANUS		

.....  
 10800 = TOTAL ABUNDANCE

DIVERSITY = 4.09678

SPRING	TRANSECT	II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2160	DIA	LEPTOCYLINDRUS DANICUS		
1520	DIN	GYMNODINIUM SPP.		
1280	DIA	RHIZOSOLENIA STOLTERFOTHII		
900	DIA	SKELETONEMA COSTATUM		
680	DIN	PROROCENTRUM COMPRESSUM		
520	DIN	PROROCENTRUM MICANS		
520	DIA	EUCAMPYA ZODIACUS		
480	DIA	RHIZOSOLENIA DELICATULA		
320	DIA	RHIZOSOLENIA ALATA		
300	DIA	UNIDENTIFIED CENTRIC		
240	DIA	BIDDULPHIA SINENSIS		
220	DIA	RHIZOSOLENIA FRAGILLISSIMA		
220	DIA	PLEUROSIGMA SPP.		
220	DIA	NITZSCHIA SPP.		
180	DIA	RHIZOSOLENIA SETIGERA		
180	DIA	RHIZOSOLENIA IMBRICATA		
180	DIA	NITZSCHIA SERIATA		
160	DIN	UNIDENTIFIED DINOFLAGELLATES		
160	DIA	THALASSIONEMA NITZSCHIOIDES		
140	DIA	THALASSIOTHRIX FRAUMFELDII		
120	DIN	PYRROPHACUS SPP.		
120	DIA	CERATAULINA PELAGICA		
120	DIN	TORODINIUM ROBUSTUM		
120	DIN	GYRODINIUM SPP.		
100	DIA	DITYLUM BRIGHTWELLII		
80	DIN	PERIDINIUM SPP.		
80	DIA	DIPLONEIS CRABRO		
80	DIA	CHAETOCEROS SPP.		
60	DIN	CERATIUM HIRCUS		
60	DIA	RHIZOSOLENIA CALCAR AVIS		
60	DIA	GUINARDIA FLACCIDA		
60	DIA	COSCINODISCUS SPP.		
40	DIN	PERIDINIUM SPINIFERUM		
40	DIA	UNIDENTIFIED PENNATE		
40	DIA	NAVICULA DISTANS		
40	DIA	HEMIAULUS MEMBRANACEOUS		
40	DIA	CHAETOCEPOS AFFINIS		
20	DIN	DINOPHYSIS CAUDATA		
20	DIA	RHIZOSOLENIA ROBUSTA		
20	DIA	COSCINODISCUS EXCENTRICUS		
20	DIA	CHAETOCEROS PERUVIANUS		

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11920 =TOTAL ABUNDANCE

.....  
DIVERSITY = 4.32258

SPRING	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
5280	DIN	GYMNODINIUM SPP.		
3780	DIA	RHIZOSOLENIA STOLTERFOTHII		
1940	DIA	LAUDERIA SPP.		
1780	DIA	NITZSCHIA SPP.		
1620	DIA	LEPTOCYLINDRUS DANICUS		
1600	DIA	THALASSIOTHRIX FRAUNFELDII		
920	DIA	CHAETOCEROS BREVIS		
880	DIA	CHAETOCEROS DECIPIENS		
680	DIA	CHAETOCEROS SPP.		
640	DIA	CERATAULINA PELAGICA		
520	DIA	GUINARDIA FLACCIDA		
500	DIN	TORODINIUM ROBUSTUM		
480	DIA	THALASSIONEMA NITZSCHIOIDES		
460	DIA	CHAETOCEROS ATLANTICUS		
380	DIA	SKELETONEMA COSTATUM		
320	DIN	PROROCENTRUM COMPRESSUM		
300	DIA	RHIZOSOLENIA FRAGILLISSIMA		
280	DIA	RHIZOSOLENIA ALATA		
260	DIA	RHIZOSOLENIA DELICATULA		
240	DIA	HEMIAULUS MEMBRANACEOUS		
200	DIA	UNIDENTIFIED CENTRIC		
180	DIA	CHAETOCEROS PELAGICUS		
140	DIA	UNIDENTIFIED PENNATE		
140	DIA	RHIZOSOLENIA CALCAR AVIS		
140	DIA	BACTERIASTRUM SPP.		
120	DIN	PROROCENTRUM MICANS		
100	DIN	UNIDENTIFIED DINOFLAGELLATES		
100	DIA	RHIZOSOLENIA ROBUSTA		
80	DIN	GYRODINIUM SPP.		
80	DIN	COCCODINIUM ARCHIMEDES		
80	DIN	AMPHIDINIUM SPP.		
80	DIA	RHIZOSOLENIA IMBRICATA		
80	DIA	BIDDULPHIA SINENSIS		
60	OTH	UNIDENTIFIED NANOFLAGELLATES		
60	DIA	RHIZOSOLENIA SETIGERA		
40	BLU	TRICHODESMIUM SPP.		
40	DIN	DINOPHYSIS CAUDATA		
40	DIA	HEMIAULUS HAUCKII		
20	DIN	PERIDINIUM SPINIFERUM		
20	DIN	CERATIUM TRICHOCEROS		
20	DIN	CERATIUM FURCA		
20	DIA	PLEUROSIGMA SPP.		
20	DIA	NAVICULA DISTANS		
20	DIA	LAUDERIA BOREALIS		
20	DIA	DIPLONEIS CRABRO		

.....  
 24760 =TOTAL ABUNDANCE

DIVERSITY = 4.11652



ABUNDANCE CELLS/LITER	CLASS	SPECIES
3700	DIA	LEPTOCYLINDRUS DANICUS
2520	DIA	RHIZOLENIA STOLTERFOTHII
2040	DIA	LAUDERIA SPP.
2000	DIA	NITZSCHIA SPP.
1300	DIA	RHIZOLENIA FRAGILLISSIMA
1140	DIA	EUCAMPYA ZODIACUS
1120	DIN	GYMNODINIUM SPP.
960	DIA	CHAETOCEROS DECIPIENS
820	DIA	THALASSIOTHRIX FRAUNFELDII
800	DIA	CERATAULINA PELAGICA
620	DIA	GUINARDIA FLACCIDA
500	DIA	NITZSCHIA SERIATA
480	DIA	CHAETOCEROS BREVIS
400	DIA	RHIZOLENIA SETIGERA
360	DIA	CHAETOCEROS PELAGICUS
320	DIA	HEMIAULUS HAUCKII
280	DIA	CHAETOCEROS AFFINIS
200	DIA	THALASSIONEMA NITZSCHIOIDES
200	DIA	SKELETONEMA COSTATUM
160	DIN	TORODINIUM ROBUSTUM
160	DIN	CERATIUM TRICHOCEROS
160	DIA	RHIZOLENIA IMBRICATA
140	DIA	CHAETOCEROS SPP.
140	DIA	CHAETOCEROS CURVISETUS
120	DIA	UNIDENTIFIED PENNATE
120	DIA	HEMIAULUS MEMBRANACEOUS
120	DIA	BIDDULPHIA SINENSIS
100	DIN	GYRODINIUM SPP.
100	DIA	UNIDENTIFIED CENTRIC
100	DIA	RHIZOLENIA ALATA
80	DIN	PROROCENTRUM MICANS
80	DIN	AMPHIDINIUM SPP.
80	DIA	LAUDERIA BOREALIS
60	DIN	UNIDENTIFIED DINOFLAGELLATES
60	DIN	PROROCENTRUM COMPRESSUM
60	DIN	COCLODINIUM ARCHIMEDES
40	DIN	PERIDINIUM SPP.
40	DIA	RHIZOLENIA ROBUSTA
20	DIN	CERATIUM FUSUS
20	DIA	RHIZOLENIA CALCAR AVIS
20	DIA	DITYLUM BRIGHTWELLII
20	DIA	COSCINODISCUS SPP.

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 21760 = TOTAL ABUNDANCE

.....  
 DIVERSITY = 4.27924

SPRING	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3167	DIN	GYMNODINIUM SPP.	
380	BLU	TRICHODESMIUM SPP.	
380	DIA	RHIZOSOLENIA STOLTERFOTHII	
180	DIN	TORODINIUM ROBUSTUM	
100	DIA	CHAETOCEROS ATLANTICUS	
60	DIN	PROROCENTRUM COMPRESSUM	
60	DIA	RHIZOSOLENIA CALCAR AVIS	
40	DIA	CERATAULINA PELAGICA	
40	DIN	GYRODINIUM SPP.	
40	DIN	AMPHIDINIUM SPP.	
40	DIA	RHIZOSOLENIA IMBRICATA	
40	DIA	RHIZOSOLENIA ALATA	
20	DIN	PROROCENTRUM MICANS	
20	DIN	PERIDINIUM SPP.	
20	DIN	PERIDINIUM SPINIFERUM	
20	DIN	COCLODINIUM ARCHIMEDES	
20	DIN	CERATIUM TRIPOS	
20	DIN	CERATIUM TRICHOCEROS	
20	DIN	CERATIUM FURCA	
20	DIA	GUINARDIA FLACCIDA	
20	DIA	COSCINODISCUS SPP.	

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 4700 =TOTAL ABUNDANCE                      DIVERSITY = 2.02852

SPRING	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2240	DIN	GYMNODINIUM SPP.	
320	DIA	THALASSIOTHRIX FRAUNFELDII	
140	DIA	EUCAMPIA ZODIACUS	
80	DIA	RHIZOSOLENIA STOLTERFOTHII	
60	DIA	GUINARDIA FLACCIDA	
40	DIN	GYRODINIUM SPP.	
40	DIA	UNIDENTIFIED PENNATE	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	CERATIUM TRIPOS	
20	DIN	CERATIUM FUSUS	

.....  
 2980 =TOTAL ABUNDANCE                      DIVERSITY = 1.43073

ABUNDANCE CELLS/LITER	CLASS	SPECIES
2880	DIN	GYMNODINIUM SPP.
2540	DIA	LAUDERIA SPP.
2240	DIA	RHIZOLENIA STOLTEPFOTHII
1140	DIA	NITZSCHIA SERIATA
1140	DIA	GUINARDIA FLACCIDA
900	DIA	BACTERIASTRUM SPP.
780	DIA	EUCAMPYA ZODIACUS
580	DIA	CHAETOCEROS DECIPIENS
500	DIA	RHIZOLENIA ALATA
340	DIA	CHAETOCEROS CURVISETUS
340	DIA	CHAETOCEROS ATLANTICUS
320	DIA	NITZSCHIA SPP.
300	BLU	TRICHODESMIUM SPP.
300	DIA	LEPTOCYLINDRUS DANICUS
280	OTH	UNIDENTIFIED NANOFLAGELLATES
240	DIA	THALASSIONEMA NITZSCHIOIDES
240	DIA	RHIZOLENIA FRAGILLISSIMA
200	DIA	CERATAULINA PELAGICA
200	DIN	DINOPHYSIS CAUDATA
200	DIA	RHIZOLENIA SETIGERA
200	DIA	BIDDULPHIA SINENSIS
140	DIN	TORODINIUM ROBUSTUM
120	DIA	UNIDENTIFIED CENTRIC
100	DIN	PROROCENTRUM COMPRESSUM
100	DIA	RHIZOLENIA IMBRICATA
80	DIA	RHIZOLENIA ROBUSTA
60	DIN	CERATIUM MACROCEPOS
60	DIA	UNIDENTIFIED PENNATE
60	DIA	THALASSIOTHRIX FRAUNFELDI
60	DIA	RHIZOLENIA CALCAR AVIS
40	DIA	PLEUROSIGMA SPP.
40	DIA	CHAETOCEROS DIDYMUS
20	DIN	PROROCENTRUM MICANS
20	DIN	PERIDINIUM SPP.
20	DIN	GONYAULAX MINIMA
20	DIN	CERATIUM TRIPOS
20	DIN	CERATIUM FURCA
20	DIN	AMPHIDIINIUM SPP.
20	DIA	NITZSCHIA LONGISSIMA
20	DIA	DITYLUM BRIGHTWELLII
20	DIA	CHAETOCEROS PERUVIANUS

.....  
16900 = TOTAL ABUNDANCE

.....  
DIVERSITY = 4.12081

ABUNDANCE CELLS/LITER	CLASS	SPECIES
1960	DIA	RHIZOSOLENIA STOLTERFOTHII
1100	DIA	GUINARDIA FLACCIDA
660	DIA	EUCAMPYA ZODIACUS
580	DIA	NITZSCHIA SERIATA
580	DIA	CHAETOCEROS DECIPIENS
520	DIA	THALASSIONEMA NITZSCHIOIDES
480	DIA	CHAETOCEROS SPP.
400	DIA	SKELETONEMA COSTATUM
300	BLU	TRICHODESMIUM SPP.
300	DIA	NITZSCHIA SPP.
280	DIA	RHIZOSOLENIA ALATA
260	DIA	CHAETOCEROS PELAGICUS
200	DIA	STEPHANOPYXIS PALMERIANA
180	DIA	CHAETOCEROS SOCIALIS
160	DIA	RHIZOSOLENIA IMBRICATA
160	DIA	RHIZOSOLENIA CALCAR AVIS
140	OTH	UNIDENTIFIED NANOFLAGELLATES
100	DIN	DINOPHYSIS CAUDATA
100	DIA	PLEUROSIGMA SPP.
80	DIN	TORODINIUM ROBUSTUM
80	DIN	PROROCENTRUM COMPRESSUM
80	DIA	UNIDENTIFIED CENTRIC
80	DIA	BACTERIASTRUM SPP.
60	DIN	GYRODINIUM SPP.
60	DIN	CERATIUM TRICHOCEROS
40	DIN	PYRROPHACUS SPP.
40	DIA	CERATAULINA PELAGICA
40	DIN	PERIDINIUM SPP.
40	DIN	AMPHIDIINIUM SPP.
40	DIA	THALASSIOTHRIX FRAUNFELDII
40	DIA	RHIZOSOLENIA SETIGERA
40	DIA	RHIZOSOLENIA ROBUSTA
40	DIA	RHIZOSOLENIA FRAGILLISSIMA
40	DIA	HEMIAULUS MEMBRANACEOUS
40	DIA	HEMIAULUS HAUCKII
40	DIA	DITYLUM BRIGHTWELLII
40	DIA	BIDDULPHIA SINENSIS
20	DIN	PROROCENTRUM MICANS
20	DIN	CERATIUM TRIPOS
20	DIN	CERATIUM FURCA
20	DIA	NAVICULA SPP.
20	DIA	COSCIINODISCUS SPP.

.....  
9480 =TOTAL ABUNDANCE

.....  
DIVERSITY = 4.31809

SPRING	TRANSECT III	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
5180	DIA	LAUDERIA SPP.	
5080	DIN	GYMNODINIUM SPP.	
4600	DIA	RHIZOLENIA STOLTERFOTHII	
2680	DIA	LEPTOCYLINDRUS DANICUS	
1880	DIA	NITZSCHIA SPP.	
1400	DIA	NITZSCHIA SERIATA	
1100	DIA	CHAETOCEROS BREVIS	
820	DIA	CHAETOCEROS DECIPIENS	
780	DIA	THALASSIOTHRIX FRAUNFELDI	
720	DIA	RHIZOLENIA FRAGILLISSIMA	
460	DIA	CHAETOCEROS SPP.	
340	DIN	TORODINIUM ROBUSTUM	
280	DIA	EUCAMPIA ZODIACUS	
260	DIA	CERATAULINA PELAGICA	
260	DIA	GUINARDIA FLACCIDA	
240	DIA	RHIZOLENIA ALATA	
200	DIN	GYRODINIUM SPP.	
200	DIA	UNIDENTIFIED CENTRIC	
180	DIA	RHIZOLENIA DELICATULA	
140	DIN	PROROCENTRUM COMPRESSUM	
100	DIA	CHAETOCEROS PELAGICUS	
100	DIA	CHAETOCEROS CURVISETUS	
80	DIN	PYRROPHACUS SPP.	
80	DIN	PERIDINIUM SPP.	
80	DIA	CHAETOCEROS ATLANTICUS	
60	DIA	RHIZOLENIA SETIGERA	
60	DIA	HEMIAULUS HAUCKII	
60	DIA	BACTERIASTRUM SPP.	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	THALASSIONEMA NITZSCHIOIDES	
40	DIA	HEMIAULUS MEMBRANACEOUS	
40	DIA	BIDDULPHIA SINENSIS	
20	DIN	PROROCENTRUM MICANS	
20	DIN	PERIDINIUM SPINIFERUM	
20	DIN	GONYAULAX SPP.	
20	DIN	CERATIUM SPP.	
20	DIA	RHIZOLENIA ROBUSTA	
20	DIA	RHIZOLENIA IMBRICATA	
20	DIA	RHIZOLENIA CALCAR AVIS	
20	DIA	LAUDERIA BOREALIS	
20	DIA	DITYLUM BRIGHTWELLII	
20	DIA	DIPLONEIS CRABRO	

.....  
 27780 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.69142

SPPING      TRANSECT III      STATION 2      1/2 PHOTIC			
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
4780	DIA	LAUDERIA SPP.	
3180	DIA	GYMNODINIUM SPP.	
1360	DIA	LEPTOCYLINDRUS DANICUS	
1200	BLU	TRICHODESMIUM SPP.	
680	DIA	CHAETOCEROS DECIPIENS	
580	DIA	NITZSCHIA SPP.	
520	DIA	RHIZOLENIA FRAGILLISSIMA	
460	DIA	GUINARDIA FLACCIDA	
440	DIA	BACTERIASTRUM SPP.	
280	DIA	NITZSCHIA SERIATA	
180	DIA	CHAETOCEROS BREVIS	
160	DIN	PROROCENTRUM COMPRESSUM	
160	DIA	RHIZOLENIA ALATA	
140	DIA	THALASSIOTHRIX FRAUNFELDII	
120	DIN	TORODINIUM ROBUSTUM	
100	DIA	CERATAULINA PELAGICA	
100	DIN	DINOPHYSIS CAUDATA	
100	DIA	CHAETOCEROS SPP.	
80	DIA	RHIZOLENIA SETIGERA	
80	DIA	RHIZOLENIA CALCAR AVIS	
60	DIA	RHIZOLENIA ROBUSTA	
60	DIA	HEMIAULUS MEMBRANACEOUS	
40	DIN	CERATIUM SPP.	
40	DIA	BIDDULPHIA SINENSIS	
20	DIN	PERIDINIUM SPP.	
20	DIN	OXYTOXUM SPP.	
20	DIN	GYRODINIUM SPP.	
20	DIN	AMPHIDINIUM SPP.	
20	DIA	UNIDENTIFIED PENMATE	
20	DIA	RHIZOLENIA STYLIFORMIS	
20	DIA	RHIZOLENIA IMBRICATA	
20	DIA	LAUDERIA BOREALIS	

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15060 =TOTAL ABUNDANCE

.....  
DIVERSITY = 3.33764

SPRING	TRANSECT III	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3960	DIN	GYMNODINIUM SPP.	
3740	DIA	RHIZOLENIA STOLTEPFOTHII	
1540	DIA	LAUDERIA SPP.	
780	DIA	RHIZOLENIA ALATA	
720	DIA	NITZSCHIA SPP.	
420	DIA	THALASSIOTHRIX FRAUNFELDI	
380	DIA	RHIZOLENIA FRAGILLISSIMA	
340	DIN	TORODINIUM ROBUSTUM	
280	BLU	TRICHODESMIUM SPP.	
260	DIA	LEPTOCYLINDRUS DANICUS	
260	DIA	GUINARDIA FLACCIDA	
200	DIN	GYRODINIUM SPP.	
180	DIA	RHIZOLENIA IMBRICATA	
160	DIN	UNIDENTIFIED DINOFLAGELLATES	
120	DIN	GONYAULAX MINIMA	
120	DIA	CHAETOCEROS DECIPIENS	
120	DIA	BIDDULPHIA SINENSIS	
100	DIA	UNIDENTIFIED PENNATE	
100	DIA	RHIZOLENIA CALCAR AVIS	
100	DIA	CHAETOCEROS SPP.	
80	DIN	DINOPHYSIS CAUDATA	
80	DIN	COCLODINIUM ARCHIMEDES	
80	DIA	CHAETOCEROS BREVIS	
60	DIN	CERATIUM FURCA	
60	DIN	AMPHIDIINIUM SPP.	
60	DIA	UNIDENTIFIED CENTRIC	
60	DIA	RHIZOLENIA SETIGERA	
60	DIA	LAUDERIA BOREALIS	
60	DIA	HEMIAULUS MEMBRANACEOUS	
40	DIA	THALASSIONEMA NITZSCHIOIDES	
40	DIA	BACTEPIASTRUM SPP.	
20	DIN	PROROCENTRUM MICANS	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	PERIDIINIUM SPINIFERUM	

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 14620 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.48357

ABUNDANCE CELLS/LITER	CLASS	SPECIES
3000	DIN	GYMNODINIUM SPP.
1460	DIA	RHIZOLENIA STOLTERFOTHII
1160	DIA	LAUDEPIA SPP.
700	DIA	RHIZOLENIA DELICATULA
640	DIA	GUINARDIA FLACCIDA
460	DIA	NITZSCHIA SERIATA
400	DIA	RHIZOLENIA FRAGILLISSIMA
300	DIA	CHAETOCEROS DECIPIENS
240	DIA	THALASSIOTHRIX FRAUNFELDII
180	DIA	NITZSCHIA SPP.
160	DIA	CERATAULINA PELAGICA
160	DIA	RHIZOLENIA SETIGERA
160	DIA	RHIZOLENIA IMBRICATA
120	DIA	RHIZOLENIA ALATA
120	DIA	CHAETOCEROS BREVIS
100	DIA	CHAETOCEROS SPP.
80	DIA	RHIZOLENIA CALCAR AVIS
80	DIA	BACTERIASTRUM SPP.
60	DIA	RHIZOLENIA ROBUSTA
60	DIA	BIDDULPHIA SINENSIS
40	DIN	TOPODINIUM ROBUSTUM
40	DIN	PERIDINIUM SPP.
20	DIN	CERATIUM MINUTUM
20	BLU	TRICHODESMIUM SPP.
20	DIN	AMPHIDINIUM SPP.
20	DIA	UNIDENTIFIED CENTRIC

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9800 =TOTAL ABUNDANCE

DIVERSITY = 3.47251



SPRING	TRANSECT	IV	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2060	DIN	GYMNODINIUM SPP.		
1540	DIA	RHIZOLENIA STOLTERFOTHII		
640	DIA	GUINARDIA FLACCIDA		
580	DIA	LEPTOCYLINDRUS DANICUS		
280	DIA	RHIZOLENIA ALATA		
240	DIA	CERATAULINA PELAGICA		
240	DIN	GYRODINIUM SPP.		
200	DIN	TORODINIUM ROBUSTUM		
160	DIN	UNIDENTIFIED DINOFLAGELLATES		
140	DIA	UNIDENTIFIED CENTRIC		
140	DIA	EUCAMPYA ZODIACUS		
120	DIN	GONYAULAX MINIMA		
100	DIA	THALASSIOTHRIX FRAUNFELDI		
80	DIA	THALASSIONEMA NITZSCHIOIDES		
80	DIA	RHIZOLENIA FRAGILLISSIMA		
80	DIA	RHIZOLENIA DELICATULA		
80	DIA	RHIZOLENIA CALCAR AVIS		
60	OTH	UNIDENTIFIED NANOFLAGELLATES		
60	DIA	COSCIDINODISCUS SPP.		
40	DIA	UNIDENTIFIED PENNATE		
40	DIA	RHIZOLENIA IMBRICATA		
40	DIA	PLEUROSIGMA SPP.		
40	DIA	HEMIAULUS MEMBRANACEOUS		
40	DIA	DIPLONEIS CRABRO		
20	DIN	PYRROPHACUS SPP.		
20	DIN	CERATIUM MINUTUM		
20	DIN	PROROCENTRUM GRACILE		
20	DIN	DINOPHYSIS CAUDATA		
20	DIN	CERATIUM FURCA		
20	DIN	AMPHIDINIUM SPP.		
20	DIA	RHIZOLENIA SPP.		
20	DIA	RHIZOLENIA SETIGERA		
20	DIA	NITZSCHIA SPP.		
20	DIA	NAVICULA SPP.		

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 7280 =TOTAL ABUNDANCE

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 DIVERSITY = 3.60545

SPRING	TRANSECT	IV	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
3320	DIA	RHIZOSOLENIA STOLTERFOTHII		
1640	DIN	GYMNODINIUM SPP.		
520	DIA	RHIZOSOLENIA ALATA		
400	DIA	THALASSIOTHRIX FRAUNFELDI		
360	DIA	GUINARDIA FLACCIDA		
340	DIA	RHIZOSOLENIA IMBRICATA		
200	DIA	SKELETONEMA COSTATUM		
180	DIA	LEPTOCYLINDRUS DANICUS		
160	DIN	TORODINIUM ROBUSTUM		
140	DIA	CERATAULINA PELAGICA		
120	DIN	GYRODINIUM SPP.		
120	DIA	UNIDENTIFIED PENNATE		
100	DIA	NITZSCHIA SPP.		
100	DIA	CHAETOCEROS DECIPIENS		
80	DIA	RHIZOSOLENIA CALCAR AVIS		
60	DIA	UNIDENTIFIED CENTRIC		
60	DIA	THALASSIONEMA NITZSCHIOIDES		
60	DIA	CHAETOCEROS SPP.		
40	DIN	UNIDENTIFIED DINOFLAGELLATES		
40	DIN	PROROCENTRUM COMPRESSUM		
40	DIN	CERATIUM MASSILIENSE		
40	DIN	CERATIUM FURCA		
40	DIA	PLEUROSIGMA SPP.		
40	DIA	COSCINODISCUS SPP.		
20	DIN	PERIDINIUM SPP.		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	NITZSCHIA LONGISSIMA		
20	DIA	LAUDERIA BOREALIS		
20	DIA	DITYLUM BRIGHTWELLII		

.....  
8300 =TOTAL ABUNDANCE

DIVERSITY = 3.17771

SPRING	TRANSECT	IV	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
1180	DIN	GYMNODINIUM SPP.		
320	BLU	TRICHODESMIUM SPP.		
160	DIN	TORODINIUM ROBUSTUM		
120	DIN	GYRODINIUM SPP.		
100	DIA	LEPTOCYLINDRUS DANICUS		
80	DIN	GONYAULAX MINIMA		
80	DIA	THALASSIOTHRIX FRAUNFELDII		
60	DIN	COCLODINIUM ARCHIMEDES		
60	DIN	CERATIUM FURCA		

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 2160 =TOTAL ABUNDANCE                      DIVERSITY = 2.24281

SPRING	TRANSECT	IV	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
5140	DIA	THALASSIOTHRIX FRAUNFELDII		
780	DIN	GYMNODINIUM SPP.		
340	DIA	STREPTOTHECA THAMESIS		
120	DIN	CERATIUM MINUTUM		
120	DIN	GYRODINIUM SPP.		
100	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	UNIDENTIFIED PENNATE		
40	DIN	TORODINIUM ROBUSTUM		
40	DIN	DINOPHYSIS CAUDATA		
20	DIA	UNIDENTIFIED CENTRIC		
20	DIA	LAUDERIA BOREALIS		
20	DIA	GUINARDIA FLACCIDA		

.....  
 6820 =TOTAL ABUNDANCE                      DIVERSITY = 1.41394

SPRING	TRANSECT	IV	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2640	DIA	THALASSIOTHRIX FRAUNFELDII		
2480	DIN	GYMNODINIUM SPP.		
480	DIN	GYRODINIUM SPP.		
160	DIN	TORODINIUM ROBUSTUM		
100	BLU	TRICHODESMIUM SPP.		
100	DIN	GONYAULAX MINIMA		
80	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	CHAETOCEROS DECIPIENS		
60	DIA	GUINARDIA FLACCIDA		
40	DIN	AMPHIDINIUM SPP.		
40	DIA	UNIDENTIFIED PENNATE		
40	DIA	CHAETOCEROS DIDYMUS		
20	DIN	PODOLAMPAS SPINIFERA		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIN	CERATIUM FURCA		
20	DIA	RHIZOSOLENIA IMBRICATA		

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 6380 =TOTAL ABUNDANCE                      DIVERSITY = 2.12597

SPRING	TRANSECT	IV	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
2060	DIA	THALASSIOTHRIX FRAUNFELDII		
2000	DIN	GYMNODINIUM SPP.		
140	DIA	NITZSCHIA SPP.		
140	DIA	CHAETOCEROS DECIPIENS		
120	DIN	GYRODINIUM SPP.		
60	DIN	TORODINIUM ROBUSTUM		
60	DIA	PLEUROSIGMA SPP.		
40	DIA	RHIZOSOLENIA DELICATULA		
40	DIA	BACTERIASTRUM SPP.		
20	SIL	DICTYOCHA FIBULA		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	PROROCENTRUM MICANS		
20	DIN	PODOLAMPAS SPINIFERA		
20	DIN	PERIDINIUM SPINIFERUM		
20	DIN	GONYAULAX SPP.		
20	DIN	CERATIUM TRICHOCEROS		
20	DIA	UNIDENTIFIED PENNATE		
20	DIA	UNIDENTIFIED CENTRIC		
20	DIA	RHIZOSOLENIA ROBUSTA		
20	DIA	COSCINODISCUS SPP.		

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 4880 =TOTAL ABUNDANCE                      DIVERSITY = 2.10875

JULY	TRANSECT II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
100	DIA	HEMIAULUS MEMBRANACEOUS	
80	DIA	UNIDENTIFIED CENTRIC	
80	DIA	CHAETOCEROS ATLANTICUS	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	THALASSIOTHRIX FRAUNFELDII	
20	DIN	TORODINIUM ROBUSTUM	
20	DIA	RHIZOSOLENIA ALATA	
20	DIA	NAVICULA SPP.	

.....  
 400 =TOTAL ABUNDANCE                      DIVERSITY = 2.74599

JULY	TRANSECT II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
620	DIA	HEMIAULUS MEMBRANACEOUS	
600	DIN	UNIDENTIFIED DINOFLAGELLATES	
540	DIN	UNIDENTIFIED DINOFLAGELLATES	
240	DIA	UNIDENTIFIED PENNATE	
200	DIA	CHAETOCEROS DECIPIENS	
160	DIA	UNIDENTIFIED PENNATE	
160	DIA	HEMIAULUS SINENSIS	
140	DIA	CHAETOCEROS DIDYMUS	
140	DIA	CHAETOCEROS DIDYMUS	
100	OTH	UNIDENTIFIED NANOFLAGELLATES	
80	DIN	TORODINIUM ROBUSTUM	
60	DIA	CHAETOCEROS SPP.	
60	DIA	CHAETOCEROS ATLANTICUS	
60	DIA	CHAETOCEROS SPP.	
40	DIN	GONYAULAX MINIMA	
40	DIA	HEMIAULUS MEMBRANACEOUS	
40	DIN	GYRODINIUM SPP.	
20	DIN	DINOPHYSIS CAUDATA	
20	DIN	CERATIUM FUSUS	
20	DIN	CERATIUM FURCA	
20	DIA	RHIZOSOLENIA ALATA	
20	DIA	NITZSCHIA SPP.	
20	DIA	ASTEROMPHALUS SPP.	
20	DIN	PROROCENTRUM COMPRESSUM	
20	DIN	GYMNODINIUM SPP.	
20	DIN	AMPHIDINIUM SPP.	
20	DIA	NAVICULA SPP.	

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 3480 =TOTAL ABUNDANCE                      DIVERSITY = 3.81371

JULY	TRANSECT II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
100	DIA	HEMIAULUS MEMBRANACEOUS	
80	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIA	RHIZOSOLENIA ALATA	
40	BLU	TRICHODESMIUM ERYTHRAEUM	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	CHAETOCEROS SPP.	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	GYRODINIUM SPP.	
20	DIN	GYMNODINIUM SPP.	

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420 =TOTAL ABUNDANCE                      DIVERSITY = 2.95127

JULY	TRANSECT II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
260	DIN	UNIDENTIFIED DINOFLAGELLATES	
160	DIA	HEMIAULUS MEMBRANACEOUS	
100	DIA	CHAETOCEROS ATLANTICUS	
80	DIN	UNIDENTIFIED DINOFLAGELLATES	
80	DIA	NITZSCHIA SPP.	
60	DIA	HEMIAULUS SINENSIS	
40	DIN	TORODINIUM ROBUSTUM	
40	DIN	TORODINIUM ROBUSTUM	
40	DIN	GYRODINIUM SPP.	
20	DIN	PERIDINIUM SPP.	
20	DIN	COCLODINIUM ARCHIMEDES	
20	DIA	CHAETOCEROS SPP.	
20	DIN	PERIDINIUM SPP.	

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940 =TOTAL ABUNDANCE                      DIVERSITY = 3.20947

JULY	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2920	DIA	NITZSCHIA SPP.	
1240	DIA	THALASSIONEMA NITZSCHIOIDES	
900	DIA	CHAETOCEROS ATLANTICUS	
280	DIA	CHAETOCEROS DECIPIENS	
280	DIA	LEPTOCYLINDRUS DANICUS	
240	DIA	CHAETOCEROS SPP.	
240	DIA	UNIDENTIFIED PENNATE	
200	DIA	THALASSIOTHRIX FRAUNFELDII	
180	DIA	CHAETOCEROS MESSANENSIS	
140	DIA	NITZSCHIA SERIATA	
120	DIA	CHAETOCEROS AFFINIS	
120	DIA	HEMIAULUS MEMBRANACEOUS	
100	DIA	BACTERIASTRUM SPP.	
80	DIA	SKELETONEMA COSTATUM	
60	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIN	CERATIUM FURCA	
40	DIA	RHIZOLENIA STOLTERFOTHII	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	GONYAULAX MINIMA	
20	DIN	CERATIUM TRICHOCEROS	
20	DIA	RHIZOLENIA SETIGERA	
20	DIA	RHIZOLENIA ALATA	

.....  
 7300 =TOTAL ABUNDANCE                      DIVERSITY = 3.03131

JULY	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3540	DIA	NITZSCHIA SPP.	
1760	DIA	THALASSIONEMA NITZSCHIOIDES	
1000	DIA	LEPTOCYLINDRUS DANICUS	
520	DIA	CHAETOCEROS ATLANTICUS	
200	DIA	UNIDENTIFIED PENNATE	
180	DIA	CHAETOCEROS SPP.	
160	DIA	RHIZOSOLENIA STOLTERFOTHII	
120	DIA	CHAETOCEROS DIDYMUS	
80	DIA	CHAETOCEROS ATLANTICUS	
80	DIA	RHIZOSOLENIA ALATA	
60	DIA	UNIDENTIFIED PENNATE	
60	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIA	THALASSIOTHRIX FRAUNFELDII	
60	DIA	HEMIAULUS MEMBRANACEOUS	
40	SIL	DICTYOCHA FIBULA	
40	DIA	RHIZOSOLENIA STOLTERFOTHII	
40	DIA	RHIZOSOLENIA ALATA	
40	DIA	CHAETOCEROS SPP.	
40	DIA	BACTERIASTRUM SPP.	
40	DIN	UNIDENTIFIED DINOFLAGELLATES	
40	DIA	NAVICULA SPP.	
40	DIA	CHAETOCEROS MESSANENSIS	
20	DIN	CERATIUM MINUTUM	
20	DIN	PODOLAMPAS SPINIFERA	
20	DIN	GONYAULAX MINIMA	
20	DIN	CERATIUM FUSUS	
20	DIA	NAVICULA SPP.	
20	DIN	DINOPHYSIS CAUDATA	
20	DIA	RHIZOSOLENIA CALCAR AVIS	
20	DIA	CHAETOCEROS PERUVIANUS	

.....  
8360 =TOTAL ABUNDANCE

.....  
DIVERSITY = 2.85831



JULY	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
4520	DIA	NITZSCHIA SPP.	
1280	DIA	THALASSIONEMA NITZSCHIOIDES	
520	DIA	CHAETOCEROS ATLANTICUS	
260	DIA	THALASSIOTHRIX FRAUNFELDII	
200	DIA	CHAETOCEROS DIDYMUS	
160	DIA	BACTERIASTRUM SPP.	
120	DIA	CHAETOCEROS SPP.	
80	DIA	HEMIAULUS MEMBRANACEOUS	
60	DIA	HEMIAULUS SINENSIS	
40	DIN	CERATIUM FURCA	
40	DIA	RHIZOSOLENIA STOLTERFOTHII	
40	DIA	RHIZOSOLENIA SETIGERA	
40	DIA	RHIZOSOLENIA ALATA	
20	DIN	PERIDINIUM SPINIFERUM	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	RHIZOSOLENIA IMBRICATA	
20	DIA	NAVICULA DISTANS	

.....  
7440 = TOTAL ABUNDANCE

.....  
DIVERSITY = 2.05018

JULY	TRANSECT	II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
660	DIA	LEPTOCYLINDRUS DANICUS		
360	DIA	NITZSCHIA SPP.		
320	DIN	UNIDENTIFIED DINOFLAGELLATES		
320	DIA	CHAETOCEROS CURVISETUS		
280	DIA	NITZSCHIA SPP.		
200	DIN	UNIDENTIFIED DINOFLAGELLATES		
200	DIA	CHAETOCEROS SPP.		
180	DIA	CHAETOCEROS ATLANTICUS		
140	DIA	THALASSIONEMA NITZSCHIOIDES		
140	DIA	CHAETOCEROS DECIPIENS		
120	DIA	CHAETOCEROS DECIPIENS		
100	DIA	RHIZOLENIA STOLTERFOTHII		
100	DIA	CHAETOCEROS SPP.		
80	DIA	UNIDENTIFIED PENNATE		
80	DIA	RHIZOLENIA STOLTERFOTHII		
80	DIA	CHAETOCEROS ATLANTICUS		
80	DIA	SKELETONEMA COSTATUM		
60	DIN	TORODINIUM ROBUSTUM		
60	DIA	UNIDENTIFIED PENNATE		
40	OIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
40	DIN	PODOLAMPAS SPINIFERA		
40	DIA	UNIDENTIFIED CENTRIC		
40	DIA	THALASSIONEMA NITZSCHIOIDES		
20	DIN	TORODINIUM ROBUSTUM		
20	DIA	RHIZOLENIA IMBRICATA		
20	DIA	RHIZOLENIA CALCAR AVIS		
20	DIA	NAVICULA SPP.		

.....  
 3800 =TOTAL ABUNDANCE

.....  
 DIVERSITY = 4.18027

AUGUST	TRANSECT	II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
760	DIN	UNIDENTIFIED DINOFLAGELLATES		
640	DIN	UNIDENTIFIED DINOFLAGELLATES		
300	DIA	NAVICULA SPP.		
260	DIA	MELOSIRA SPP.		
220	DIA	NAVICULA SPP.		
220	DIN	UNIDENTIFIED DINOFLAGELLATES		
180	DIA	UNIDENTIFIED PENNATE		
160	DIA	RHIZOSOLENIA ALATA		
140	OTH	UNIDENTIFIED NANOFLAGELLATES		
140	DIA	UNIDENTIFIED PENNATE		
140	DIA	NITZSCHIA SPP.		
100	OTH	UNIDENTIFIED NANOFLAGELLATES		
80	DIA	UNIDENTIFIED PENNATE		
80	DIA	NAVICULA SPP.		
60	DIA	HEMIAULUS SINENSIS		
60	DIA	HEMIAULUS MEMBRANACEOUS		
40	DIA	RHIZOSOLENIA ALATA		
40	DIA	HEMIAULUS MEMBRANACEOUS		
40	OTH	UNIDENTIFIED NANOFLAGELLATES		
20	DIN	PERIDINIUM SPP.		
20	BLU	TRICHODESMIUM ERYTHRAEUM		
20	DIN	TORODINIUM ROBUSTUM		
20	DIN	PROROCENTRUM COMPRESSUM		
20	DIN	GONYAULAX SPP.		
20	DIN	CERATIUM FURCA		
20	DIA	THALASSIOSIRA SPP.		
20	DIA	RHIZOSOLENIA SPP.		
20	DIA	COSKINODISCUS EXCENTRICUS		
20	DIA	ASTERIONELLA GLACIALIS (=A. JAPONICA)		
20	DIN	TORODINIUM ROBUSTUM		
20	DIN	PROROCENTRUM COMPRESSUM		
20	DIN	CERATIUM TRIPOS		
20	DIA	NITZSCHIA LONGISSIMA		
20	DIN	PROROCENTRUM COMPRESSUM		
20	DIN	CERATIUM TRICHOCEROS		
20	DIA	RHIZOSOLENIA ALATA		

.....  
 4000 =TOTAL ABUNDANCE                      DIVERSITY = 4.16655

AUGUST	TRANSECT	II	STATION 1	1/2 PHOTIC
ABUNDANCE	CLASS		SPECIES	
CELLS/LITER				
340	DIA		NAVICULA SPP.	
160	DIN		UNIDENTIFIED DINOFLAGELLATES	
140	DIA		UNIDENTIFIED PENNATE	
60	DIA		NITZSCHIA SPP.	
40	DIN		CERATIUM MACROCEROS	
40	DIA		HEMIAULUS SINENSIS	
20	OTH		UNIDENTIFIED NANOFLAGELLATES	
20	DIN		PROROCENTRUM COMPRESSUM	
20	DIA		NITZSCHIA LONGISSIMA	

.....

840 =TOTAL ABUNDANCE                      DIVERSITY = 2.49423

AUGUST	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE	CLASS		SPECIES	
CELLS/LITER				
1280	DIN		UNIDENTIFIED DINOFLAGELLATES	
360	DIN		UNIDENTIFIED DINOFLAGELLATES	
340	DIN		UNIDENTIFIED DINOFLAGELLATES	
200	DIA		UNIDENTIFIED PENNATE	
200	DIA		NITZSCHIA SPP.	
80	DIA		RHIZOSOLENIA ALATA	
60	DIA		THALASSIOTHRIX FRAUNFELDII	
60	DIA		THALASSIONEMA NITZSCHIOIDES	
60	DIA		HEMIAULUS SINENSIS	
60	OTH		UNIDENTIFIED NANOFLAGELLATES	
40	OTH		UNIDENTIFIED NANOFLAGELLATES	
40	DIA		RHIZOSOLENIA STOLTERFOTHII	
40	DIA		HEMIAULUS MEMBRANACEOUS	
40	DIA		ASTEROMPHALUS SPP.	
40	DIA		UNIDENTIFIED PENNATE	
20	DIN		CERATIUM MINUTUM	
20	DIN		PROROCENTRUM COMPRESSUM	
20	DIN		PERIDINIUM SPP.	
20	DIN		CERATIUM FUSUS	
20	DIN		CERATIUM FURCA	
20	DIA		RHIZOSOLENIA SETIGERA	
20	DIA		COSCIODISCUS EXCENTRICUS	
20	DIA		RHIZOSOLENIA ALATA	
20	DIN		PODOLAMPAS SPINIFERA	
20	DIA		COSCIODISCUS EXCENTRICUS	

.....

3100 =TOTAL ABUNDANCE                      DIVERSITY = 3.20398

AUGUST	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
160	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	TORODINIUM ROBUSTUM		
20	DIA	RHIZOLENIA ALATA		
20	DIA	NAVICULA SPP.		
20	DIA	HEMIAULUS SINENSIS		

.....

240 =TOTAL ABUNDANCE                      DIVERSITY = 1.58759

AUGUST	TRANSECT	II	STATION 3	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
380	DIN	UNIDENTIFIED DINOFLAGELLATES		
360	DIN	UNIDENTIFIED DINOFLAGELLATES		
240	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	OTH	UNIDENTIFIED NANOFLAGELLATES		
40	DIA	UNIDENTIFIED PENNATE		
40	OTH	UNIDENTIFIED NANOFLAGELLATES		
20	DIA	NITZSCHIA LONGISSIMA		
20	DIN	TORODINIUM ROBUSTUM		
20	DIA	FRAGILARIA SPP.		
20	DIN	CERATIUM MINUTUM		
20	DIN	PROROCENTRUM COMPRESSUM		
20	DIN	CERATIUM MACROCEROS		
20	DIA	HEMIAULUS SINENSIS		

.....

1280 =TOTAL ABUNDANCE                      DIVERSITY = 2.71091

AUGUST            TRANSECT    II        STATION 3        1/2 PHOTIC

ABUNDANCE        CLASS        SPECIES

CELLS/LITER

940	DIN	UNIDENTIFIED DINOFLAGELLATES
800	DIN	UNIDENTIFIED DINOFLAGELLATES
280	DIN	UNIDENTIFIED DINOFLAGELLATES
180	OTH	UNIDENTIFIED NANOFLAGELLATES
120	OTH	UNIDENTIFIED NANOFLAGELLATES
40	DIN	TORODINIUM ROBUSTUM
40	OTH	UNIDENTIFIED NANOFLAGELLATES
40	DIN	PODOLAMPAS SPINIFERA
40	DIN	TORODINIUM ROBUSTUM
20	DIA	UNIDENTIFIED PENNATE
20	DIA	BACTERIASTRUM SPP.
20	DIN	TORODINIUM ROBUSTUM
20	DIA	NITZSCHIA LONGISSIMA
20	DIN	POLYKRIKOS SCHWARTZII
20	DIA	UNIDENTIFIED PENNATE

.....

2600 =TOTAL ABUNDANCE

DIVERSITY = 2.57058

FALL            TRANSECT    I        STATION 1        SURFACE

ABUNDANCE        CLASS        SPECIES

CELLS/LITER

120	DIA	SKELETONEMA COSTATUM
80	DIA	THALASSIOTHRIX FRAUNFELDII
60	DIA	CHAETOCEROS DIVERSUS
40	DIA	RHIZOSOLENIA ALATA

.....

300 =TOTAL ABUNDANCE

DIVERSITY = 1.89238

FALL	TRANSECT	I	STATION 1	1/2 PHOTIC
ABUNDANCE	CLASS			
CELLS/LITER				
1340	DIN			UNIDENTIFIED DINOFLAGELLATES
300	DIN			PROROCENTRUM MICANS
140	DIA			UNIDENTIFIED PENNATE
80	BLU			TRICHODESMIUM ERYTHRAEUM
80	DIA			THALASSIONEMA NITZSCHIOIDES
60	DIN			CERATIUM FURCA
60	DIA			BACTERIASTRUM SPP.
40	DIN			DINOPHYSIS CAUDATA
40	DIA			UNIDENTIFIED CENTRIC
40	DIA			COSCINODISCUS SPP.
20	DIN			TORODINIUM ROBUSTUM
20	DIN			CERATIUM TRIPOS
20	DIA			NAVICULA SPP.

.....  
 2240 =TOTAL ABUNDANCE

DIVERSITY = 2.20214

FALL	TRANSECT	I	STATION 2	SURFACE
ABUNDANCE	CLASS			
CELLS/LITER				
960	DIN			UNIDENTIFIED DINOFLAGELLATES
960	DIA			NITZSCHIA SPP.
478	OTH			UNIDENTIFIED NANOFLAGELLATES
180	DIA			THALASSIONEMA NITZSCHIOIDES
160	DIA			RHIZOLENIA ALATA
40	BLU			TRICHODESMIUM ERYTHRAEUM
40	DIN			PODOLAMPAS SPINIFERA
40	DIA			UNIDENTIFIED PENNATE
40	DIA			RHIZOLENIA IMPICATA
20	DIN			AMPHIDIINIUM SPP.
20	DIA			RHIZOLENIA ROBUSTA

.....  
 2938 =TOTAL ABUNDANCE

DIVERSITY = 2.39583

FALL	TRANSECT	I	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
180	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIA	RHIZOSOLENIA ALATA		

.....

200 =TOTAL ABUNDANCE                      DIVERSITY = .46977

FALL	TRANSECT	I	STATION 3	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
3824	OTH	UNIDENTIFIED NANOFLAGELLATES		
840	DIA	RHIZOSOLENIA ALATA		
320	DIA	NITZSCHIA SPP.		
120	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	CHAETOCEROS SPP.		
60	DIN	TORODINIUM ROBUSTUM		
60	DIA	UNIDENTIFIED PENNATE		
60	DIA	RHIZOSOLENIA CALCAR AVIS		
40	DIN	CERATIUM MINUTUM		
40	DIN	CERATIUM FUSUS		
40	DIN	AMPHIDIINIUM SPP.		
40	DIA	UNIDENTIFIED CENTRIC		
40	DIA	NAVICULA SPP.		
20	DIN	PROROCENTRUM MICANS		
20	DIN	CERATIUM TRICHOCEROS		
20	DIA	PLEUROSIGMA SPP.		
20	DIA	BACTERIASTRUM SPP.		

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5644 =TOTAL ABUNDANCE                      DIVERSITY = 1.80996



FALL	TRANSECT II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
800	DIA	THALASSIONEMA NITZSCHIOIDES	
460	DIN	UNIDENTIFIED DINOFLAGELLATES	
120	DIA	COSCONODISCUS SPP.	
80	DIA	CHAETOCEROS DIDYMUS	
60	DIA	UNIDENTIFIED PENNATE	
20	DIN	PERIDINIUM SPINIFERUM	
20	DIN	CERATIUM FURCA	
20	DIA	UNIDENTIFIED CENTRIC	
20	DIA	PLEUROSIGMA SPP.	
20	DIA	NITZSCHIA LONGISSIMA	
20	DIA	DIPLONEIS SPP.	

.....

1620 =TOTAL ABUNDANCE                      DIVERSITY = 2.13000

FALL	TRANSECT II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2060	DIN	UNIDENTIFIED DINOFLAGELLATES	
740	DIA	THALASSIONEMA NITZSCHIOIDES	
300	DIA	NITZSCHIA SPP.	
80	DIN	PROROCENTRUM MICANS	
80	DIA	COSCONODISCUS SPP.	
40	DIA	PLEUROSIGMA SPP.	
40	DIA	DIPLONEIS SPP.	
20	DIA	NAVICULA DISTANS	
20	DIA	CHAETOCEROS PERUVIANUS	

.....

3380 =TOTAL ABUNDANCE                      DIVERSITY = 1.72289

FALL	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
1912	OTH	UNIDENTIFIED NANOFLAGELLATES		
1060	DIA	RHIZOSOLENIA ALATA		
740	DIN	UNIDENTIFIED DINOFLAGELLATES		
320	BLU	TRICHODESMIUM ERYTHRAEUM		
120	DIA	THALASSIONEMA NITZSCHIOIDES		
60	DIN	DINOPHYSIS CAUDATA		
60	DIA	LEPTOCYLINDRUS DANICUS		
40	DIA	CERATAULINA PELAGICA		
40	DIN	TORODINIUM ROBUSTUM		
40	DIA	CHAETOCEROS SPP.		
20	DIN	CERATIUM MINUTUM		
20	DIN	CERATIUM FURCA		
20	DIA	UNIDENTIFIED PENNATE		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	RHIZOSOLENIA CALCAR AVIS		
20	DIA	PLEUROSIGMA SPP.		
20	DIA	NITZSCHIA SPP.		
20	DIA	ASTEROMPHALUS SPP.		

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4552 =TOTAL ABUNDANCE

DIVERSITY = 2.47287

FALL	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
900	DIA	NITZSCHIA SPP.		
500	DIA	RHIZOSOLENIA ALATA		
478	OTH	UNIDENTIFIED NANOFLAGELLATES		
320	DIA	THALASSIONEMA NITZSCHIOIDES		
140	DIN	UNIDENTIFIED DINOFLAGELLATES		
60	DIA	PLEUROSIGMA SPP.		

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2398 =TOTAL ABUNDANCE

DIVERSITY = 2.22987

FALL	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
260	DIA	THALASSIOTHRIX FRAUNFELDII	
140	DIA	CHAETOCEROS DIVERSUS	
60	DIA	RHIZOSOLENIA DELICATULA	
40	DIN	UNIDENTIFIED DINOFLAGELLATES	
40	DIN	TORODINIUM ROBUSTUM	
40	DIA	RHIZOSOLENIA ALATA	
20	DIA	RHIZOSOLENIA CALCAR AVIS	

.....

600 = TOTAL ABUNDANCE                      DIVERSITY = 2.29362

FALL	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
1912	OTH	UNIDENTIFIED NANOFLAGELLATES	
1400	DIA	RHIZOSOLENIA ALATA	
1000	DIN	TORODINIUM ROBUSTUM	
920	DIN	UNIDENTIFIED DINOFLAGELLATES	
420	DIA	LEPTOCYLINDRUS DANICUS	
400	DIA	THALASSIONEMA NITZSCHIOIDES	
280	DIA	THALASSIOTHRIX FRAUNFELDII	
280	DIA	NITZSCHIA SPP.	
80	DIA	RHIZOSOLENIA DELICATULA	
80	DIA	NAVICULA MEMBRANACEA	
60	DIA	UNIDENTIFIED PENNATE	
60	DIA	CHAETOCEROS SPP.	
40	DIA	RHIZOSOLENIA STOLTERFOTHII	
40	DIA	RHIZOSOLENIA CALCAR AVIS	
40	DIA	HEMIAULUS MEMBRANACEOUS	
20	DIN	CERATIUM MINUTUM	
20	DIN	CERATIUM FUSUS	
20	DIN	CERATIUM FURCA	
20	DIA	NAVICULA SPP.	
20	DIA	COSGINODISCUS EXCENTRICUS	
20	DIA	BACTERIASTRUM SPP.	

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7132 = TOTAL ABUNDANCE                      DIVERSITY = 3.12420

FALL	TRANSECT III	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
2360	DIN	UNIDENTIFIED DINOFLAGELLATES	
380	DIA	SKELETONEMA COSTATUM	
380	DIA	BIDDULPHIA SINENSIS	
240	DIA	DITYLUM BRIGHTWELLII	
220	DIA	THALASSIONEMA NITZSCHIOIDES	
200	DIA	NITZSCHIA SERIATA	
140	DIA	NAVICULA MEMBRANACEA	
140	DIA	CHAETOCEROS CURVISETUS	
120	DIA	CHAETOCEROS SPP.	
100	DIA	COSGINODISCUS SPP.	
80	DIN	PROROCENTRUM MICANS	
80	DIA	CHAETOCEROS DIDYMUS	
60	DIA	PLEUROSIGMA SPP.	
40	DIN	CERATIUM FURCA	
40	DIA	NAVICULA SPP.	
40	DIA	DIPLONEIS SPP.	
20	BLU	TRICHODESMIUM ERYTHRAEUM	
20	DIN	TORODINIUM ROBUSTUM	
20	DIA	NITZSCHIA LONGISSIMA	

.....  
4680 =TOTAL ABUNDANCE

DIVERSITY = 2.82785

FALL	TRANSECT III	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
1960	DIN	UNIDENTIFIED DINOFLAGELLATES	
956	OTH	UNIDENTIFIED NANOFLAGELLATES	
660	DIA	CHAETOCEROS CURVISETUS	
300	DIA	THALASSIONEMA NITZSCHIOIDES	
280	DIA	BIDDULPHIA SINENSIS	
160	DIA	LAUDERIA BOREALIS	
140	DIA	DITYLUM BRIGHTWELLII	
80	DIA	NITZSCHIA SPP.	
80	DIA	COSGINODISCUS SPP.	
60	DIN	PROROCENTRUM MICANS	
40	DIA	PLEUROSIGMA SPP.	
20	DIN	GYRODINIUM SPP.	
20	DIN	CERATIUM FUSUS	
20	DIN	CERATIUM FURCA	
20	DIA	NITZSCHIA CLOSTERIUM	
20	DIA	NAVICULA DISTANS	

.....  
4816 =TOTAL ABUNDANCE

DIVERSITY = 2.68485

FALL	TRANSECT III	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
956	OTH	UNIDENTIFIED NANOFLAGELLATES	
240	DIN	UNIDENTIFIED DINOFLAGELLATES	
200	DIA	RHIZOLENIA ALATA	
180	DIA	LEPTOCYLINDRUS DANICUS	
140	DIA	THALASSIOTHRIX FRAUNFELDII	
100	DIA	NITZSCHIA SPP.	
80	DIN	TORODINIUM ROBUSTUM	
60	BLU	TRICHODESMIUM ERYTHRAEUM	
60	DIA	CHAETOCEROS DIVERSUS	

.....  
 1976 =TOTAL ABUNDANCE                      DIVERSITY = 2.47657

FALL	TRANSECT III	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
660	DIN	UNIDENTIFIED DINOFLAGELLATES	
340	DIA	RHIZOLENIA ALATA	
260	DIA	CHAETOCEROS DIVERSUS	
240	DIA	THALASSIOTHRIX FRAUNFELDII	
140	DIA	RHIZOLENIA STOLTERFOTHII	
80	DIA	PLEURSIGMA SPP.	
80	DIA	NITZSCHIA SPP.	
80	DIA	LEPTOCYLINDRUS DANICUS	
60	DIN	TORODINIUM ROBUSTUM	
40	DIA	RHIZOLENIA STYLIFORMIS	
40	DIA	NAVICULA DISTANS	
40	DIA	CHAETOCEROS SPP.	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	NAVICULA SPP.	

.....  
 2100 =TOTAL ABUNDANCE                      DIVERSITY = 3.08618

FALL	TRANSECT III	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
1434	OTH	UNIDENTIFIED NANOFLAGELLATES	
240	DIN	UNIDENTIFIED DINOFLAGELLATES	
200	DIA	THALASSIONEMA NITZSCHIOIDES	
100	DIA	RHIZOSOLENIA ALATA	
60	DIA	HEMIAULUS MEMBRANACEOUS	
60	DIA	CHAETOCEROS SPP.	
20	BLU	TRICHODESMIUM SPP.	
20	DIA	RHIZOSOLENIA ROBUSTA	
20	DIA	NAVICULA SPP.	
20	DIA	COSCINODISCUS SPP.	

.....  
 2174 =TOTAL ABUNDANCE

DIVERSITY = 1.80574

FALL	TRANSECT III	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
956	OTH	UNIDENTIFIED NANOFLAGELLATES	
840	DIN	UNIDENTIFIED DINOFLAGELLATES	
520	DIA	RHIZOSOLENIA ALATA	
220	DIA	HEMIAULUS SINENSIS	
40	DIA	UNIDENTIFIED PENNATE	
40	DIA	NAVICULA SPP.	
40	DIA	LEPTOCYLINDRUS DANICUS	
40	DIA	HEMIAULUS HAUCKII	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	COCCLODINIUM ARCHIMEDES	
20	DIN	CERATIUM FUSUS	
20	DIA	RHIZOSOLENIA IMBRICATA	
20	DIA	RHIZOSOLENIA CALCAR AVIS	
20	DIA	NITZSCHIA SPP.	
20	DIA	DACTYLIOSOLEN ANTARCTICUS	

.....  
 2836 =TOTAL ABUNDANCE

DIVERSITY = 2.48740

FALL	TRANSECT	IV	STATION 1	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
1480	DIN	UNIDENTIFIED DINOFLAGELLATES		
920	DIA	EUCAMPYA ZODIACUS		
478	OTH	UNIDENTIFIED NANOFLAGELLATES		
360	BLU	TRICHODESMIUM ERYTHRAEUM		
320	DIA	LAUDERIA BOREALIS		
280	DIA	LEPTOCYLINDRUS DANICUS		
280	DIA	DACTYLIOSOLEN ANTARCTICUS		
280	DIA	CHAETOCEROS CURVISETUS		
240	DIA	THALASSIONEMA NITZSCHIOIDES		
240	DIA	BIDDULPHIA SINENSIS		
160	DIA	CERATAULINA BERGONII		
120	DIA	CHAETOCEROS DECIPTENS		
100	DIN	PROROCENTRUM MICANS		
60	DIA	UNIDENTIFIED PENNATE		
60	DIA	DITYLUM BRIGHTWELLII		
60	DIA	CHAETOCEROS DIVERSUS		
40	DIN	CERATIUM TRIPOS		
40	DIA	RHIZOSOLENIA IMPRICATA		
40	DIA	COSCINODISCUS SPP.		
20	DIA	RHIZOSOLENIA HEBETATA		
20	DIA	RHIZOSOLENIA CALCAR AVIS		
20	DIA	RHIZOSOLENIA ALATA		
20	DIA	PLEUROSIGMA SPP.		
20	DIA	DIPLONEIS SPP.		

.....  
 5658 = TOTAL ABUNDANCE

.....  
 DIVERSITY = 3.62767

FALL	TRANSECT	IV	STATION 1	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
1920	DIN	UNIDENTIFIED DINOFLAGELLATES		
380	DIA	THALASSIONEMA NITZSCHIOIDES		
260	DIA	LEPTOCYLINDRUS DANICUS		
240	DIA	LAUDERIA BOREALIS		
240	DIA	DACTYLIOSOLEN ANTARCTICUS		
220	DIA	CHAETOCEROS CURVISETUS		
160	DIA	CHAETOCEROS DIVERSUS		
140	DIN	PROROCENTRUM MICANS		
140	DIA	BIDDULPHIA SINENSIS		
120	DIA	CHAETOCEROS DECIPIENS		
120	DIA	BACTERIASTRUM SPP.		
80	BLU	TRICHODESMIUM ERYTHRAEUM		
80	DIA	NITZSCHIA SPP.		
80	DIA	NITZSCHIA SERIATA		
60	DIA	UNIDENTIFIED PENNATE		
60	DIA	BIDDULPHIA CHINENSIS		
40	DIA	RHIZOSOLENIA IMBRICATA		
40	DIA	DITYLUM BRIGHTWELLII		
40	DIA	COSCINODISCUS EXCENTRICUS		
40	DIA	BELLEROCHEA MALLEUS		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIA	RHIZOSOLENIA STYLIFORMIS		
20	DIA	NAVICULA SPP.		

.....  
 4520 =TOTAL ABUNDANCE                      DIVERSITY = 3.30841



FALL	TRANSECT	IV	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
1140	DIA	UNIDENTIFIED DINOFLAGELLATES		
880	BLU	TRICHODESMIUM ERYTHRAEUM		
480	DIA	THALASSIOTHRIX FRAUNFELDII		
400	DIA	NITZSCHIA SPP.		
220	DIA	RHIZOSOLENIA ALATA		
160	DIA	UNIDENTIFIED PENNATE		
100	DIA	RHIZOSOLENIA STOLTERFOTHII		
80	DIA	CHAETOCEROS SPP.		
60	DIA	CHAETOCEROS DECIPIENS		
40	DIA	HEMIAULUS HAUCKII		
40	DIA	BIDDULPHIA MOBILIENSIS		
20	DIA	NITZSCHIA LONGISSIMA		
20	DIA	NAVICULA SPP.		
20	DIA	HEMIAULUS MEMBRANACEOUS		
20	DIA	BACTERIASTRUM SPP.		

.....  
 3680 =TOTAL ABUNDANCE                      DIVERSITY = 2.85663

FALL	TRANSECT	IV	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
120	DIA	THALASSIOTHRIX FRAUNFELDII		
60	DIA	RHIZOSOLENIA STOLTERFOTHII		
60	DIA	NITZSCHIA SPP.		
40	DIA	UNIDENTIFIED PENNATE		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIA	DACTYLIOSOLEN ANTARCTICUS		

.....  
 320 =TOTAL ABUNDANCE                      DIVERSITY = 2.31511

FALL	TRANSECT	IV	STATION 3	SURFACE
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
400	DIN	UNIDENTIFIED DINOFLAGELLATES		
40	DIA	CHAETOCEROS SPP.		
20	DIN	CERATIUM MINUTUM		
20	DIN	TORODINIUM ROBUSTUM		
20	DIN	COCLODINIUM ARCHIMEDES		
20	DIN	CERATIUM TRIPOS		

.....  
 520 =TOTAL ABUNDANCE                      DIVERSITY = 1.30111

FALL	TRANSECT	IV	STATION 3	1/2 PHOTIC
ABUNDANCE	CLASS	SPECIES		
CELLS/LITER				
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIN	PODOLAMPAS SPINIFERA		
20	DIA	NAVICULA SPP.		

.....  
 60 =TOTAL ABUNDANCE                      DIVERSITY = 1.58759

NOVEMBER	TRANSECT II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
99424	OTH	UNIDENTIFIED NANOFAGELLATES	
65454	OTH	UNIDENTIFIED NANOFAGELLATES	
55390	DIA	RHIZOSOLENIA STOLTERFOTHII	
43976	OTH	UNIDENTIFIED NANOFAGELLATES	
35908	DIA	RHIZOSOLENIA STOLTERFOTHII	
35526	DIA	RHIZOSOLENIA STOLTERFOTHII	
25594	DIA	HEMIAULUS SINENSIS	
16802	DIA	RHIZOSOLENIA DELICATULA	
8786	DIA	CERATAULINA PELAGICA	
8022	DIA	CHAETOCEROS SPP.	
7640	DIA	NAVICULA MEMBRANACEA	
6976	DIA	BACTERIASTRUM SPP.	
6976	DIA	NITZSCHIA SPP.	
6494	DIA	CERATAULINA PELAGICA	
6494	DIA	LEPTOCYLINDRUS DANICUS	
6494	DIA	NITZSCHIA SERIATA	
6494	DIA	HEMIAULUS SINENSIS	
6112	DIA	CERATAULINA PELAGICA	
5730	DIA	NITZSCHIA SERIATA	
5348	DIA	RHIZOSOLENIA FRAGILLISSIMA	
4584	DIA	LEPTOCYLINDRUS DANICUS	
4202	DIA	RHIZOSOLENIA FRAGILLISSIMA	
3820	DIA	UNIDENTIFIED CENTRIC	
3820	DIA	LEPTOCYLINDRUS DANICUS	
3820	DIA	EUCAMPYA ZODIACUS	
3438	DIA	NITZSCHIA SERIATA	
2674	DIA	RHIZOSOLENIA FRAGILLISSIMA	
2674	DIA	CHAETOCEROS SPP.	
2292	DIA	HEMIAULUS SINENSIS	
2292	DIA	THALASSIOSIRA SPP.	
1910	DIN	UNIDENTIFIED DINOFLAGELLATES	
1528	DIA	HEMIAULUS HAUCKII	
1528	DIA	EUCAMPYA ZODIACUS	
1528	DIA	DACTYLIOSOLEN MEDITERRANEUS	
1528	DIA	CHAETOCEROS DIDYMUS	
1528	DIN	UNIDENTIFIED DINOFLAGELLATES	
1146	DIA	THALASSIONEMA NITZSCHIOIDES	
1146	DIA	PLEUROSIGMA SPP.	
1146	DIA	NITZSCHIA SPP.	
1146	DIA	HEMIAULUS HAUCKII	
1146	DIA	COSCINODISCUS SPP.	
1146	DIA	THALASSIONEMA NITZSCHIOIDES	
1146	DIA	PLEUROSIGMA SPP.	
1146	DIA	BACTERIASTRUM SPP.	
764	BLU	TRICHODESMIUM SPP.	
764	DIA	UNIDENTIFIED PENNATE	
764	DIA	DITYLUM BRIGHTWELLII	
764	DIA	COSCINODISCUS SPP.	
764	DIA	HEMIAULUS HAUCKII	
764	DIA	COSCINODISCUS SPP.	
382	DIN	PYROPHACUS HOROLOGIIUM	
382	DIA	RHIZOSOLENIA SETIGERA	
382	DIA	NITZSCHIA LONGISSIMA	
382	DIN	GYRODINIUM SPP.	
382	DIA	NITZSCHIA LONGISSIMA	
382	DIA	NAVICULA SPP.	
382	DIA	NAVICULA WARWICKAE	
382	DIA	NAVICULA DISTANS	
382	BLU	TRICHODESMIUM SPP.	
382	DIA	UNIDENTIFIED PENNATE	
382	DIA	UNIDENTIFIED CENTRIC	
382	DIA	NAVICULA WARWICKAE	
382	DIA	NAVICULA DISTANS	
382	DIA	DITYLUM BRIGHTWELLII	

.....  
521702 = TOTAL ABUNDANCE

DIVERSITY = 4.32478

NOVEMBER    TRANSECT II    STATION 1    1/2 PHOTIC

ABUNDANCE CELLS/LITER	CLASS	SPECIES
7672	DIA	RHIZOSOLENIA STOLTERFOTHII
72525	OTM	UNIDENTIFIED NANOFLAGELLATES
66468	DIA	RHIZOSOLENIA STOLTERFOTHII
61423	OTM	UNIDENTIFIED NANOFLAGELLATES
49517	OTM	UNIDENTIFIED NANOFLAGELLATES
46624	DIA	RHIZOSOLENIA STOLTERFOTHII
19696	DIA	NITZSCHIA SERIATA
9168	DIA	RHIZOSOLENIA DELICATULA
8222	DIA	BACTERIASTRUM SPP.
7640	DIA	CERATAULINA PELAGICA
6876	DIA	RHIZOSOLENIA DELICATULA
6476	DIA	NITZSCHIA SERIATA
6494	DIA	HEMIAULUS SINENSIS
6494	DIA	RHIZOSOLENIA FRAGILLISSIMA
6494	DIA	CHAETOCEROS SPP.
5730	DIA	LEPTOCYLINDRUS DANICUS
5348	DIA	RHIZOSOLENIA FRAGILLISSIMA
5348	DIA	HEMIAULUS SINENSIS
4222	DIA	RHIZOSOLENIA DELICATULA
4222	DIA	EUCAMPYA ZODIACUS
4222	DIA	RHIZOSOLENIA FRAGILLISSIMA
3820	DIA	EUCAMPYA ZODIACUS
3256	DIA	CERATAULINA PELAGICA
3256	DIA	LEPTOCYLINDRUS DANICUS
2674	DIA	SKELETONEMA COSTATUM
2674	DIA	CERATAULINA PELAGICA
2674	DIA	UNIDENTIFIED CENTRIC
2292	DIA	UNIDENTIFIED CENTRIC
2292	DIA	THALASSIONEMA NITZSCHIOIDES
2292	DIA	DACTYLIOSOLEN MEDITERRANEUS
2292	DIA	BACTERIASTRUM SPP.
2292	DIA	CHAETOCEROS SPP.
1912	DIA	NAVICULA MEMBRANACEA
1912	DIA	HEMIAULUS SINENSIS
1528	DIA	UNIDENTIFIED PENNATE
1528	DIA	NITZSCHIA SPP.
1528	DIA	HEMIAULUS HAUCKII
1528	DIA	THALASSIONEMA NITZSCHIOIDES
1146	DIA	PLEUROSIGMA SPP.
1146	DIA	COSCINODISCUS SPP.
1146	DIN	GYRODINIUM SPP.
1146	DIA	PLEUROSIGMA SPP.
1146	DIA	NITZSCHIA SPP.
764	DIN	TORODINIUM ROBUSTUM
764	DIN	PROROCENTRUM MICANS
764	DIA	UNIDENTIFIED CENTRIC
764	DIA	UNIDENTIFIED PENNATE
764	DIA	THALASSIOTHRIX FRAUNFELDI
764	DIA	RHIZOSOLENIA ALATA
764	DIA	HEMIAULUS HAUCKII
382	DIN	PROROCENTRUM COMPRESSUM
382	DIN	GYRODINIUM SPP.
382	DIA	NAVICULA WARWICKIAE
382	DIA	NAVICULA DISTANS
382	DIA	COSCINODISCUS SPP.
382	DIN	UNIDENTIFIED DINOFLAGELLATES
382	DIN	GYRODINIUM SPP.
382	DIA	UNIDENTIFIED PENNATE
382	DIA	DITYLUM BRIGHTWELLII
382	STL	DICTYOCHA FIBULA
382	DIN	UNIDENTIFIED DINOFLAGELLATES
382	DIN	PROROCENTRUM MICANS
382	DIA	NITZSCHIA LONGISSIMA
382	DIA	BIDDULPHIA MOBILIENSIS

.....  
523863 =TOTAL ABUNDANCE                      DIVERSITY = 4.22584

NOVEMBER	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
110418	OTH	UNIDENTIFIED NANOFLAGELLATES		
240	DIA	GUINARDIA FLACCIDA		
60	DIA	UNIDENTIFIED PENNATE		
60	DIA	CHAETOCEROS PERUVIANUS		
40	DIN	TORODINIUM ROBUSTUM		
40	DIA	THALASSIOTHRIX FRAUNFELDII		
40	DIA	CHAETOCEROS SPP.		
20	DIN	UNIDENTIFIED DINOFLAGELLATES		
20	DIA	NAVICULA SPP.		
20	DIA	ASTEROMPHALUS SPP.		

.....  
 110958 =TOTAL ABUNDANCE                      DIVERSITY = .05708

NOVEMBER	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES		
50668	OTH	UNIDENTIFIED NANOFLAGELLATES		
840	BLU	TRICHODESMIUM SPP.		
100	DIA	RHIZOLENIA ALATA		
80	DIN	UNIDENTIFIED DINOFLAGELLATES		
80	DIA	THALASSIOTHRIX FRAUNFELDII		
60	DIN	TORODINIUM ROBUSTUM		
60	DIA	CHAETOCEROS PERUVIANUS		
60	DIA	CHAETOCEROS DECIPIENS		
60	DIA	CHAETOCEROS ATLANTICUS		
40	DIA	NAVICULA WARWIKAE		
40	DIA	HEMIAULUS HAUCKII		
20	DIA	UNIDENTIFIED PENNATE		
20	DIA	UNIDENTIFIED CENTRIC		

.....  
 52128 =TOTAL ABUNDANCE                      DIVERSITY = .25176

NOVEMBER	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
10516	OTH	UNIDENTIFIED NANOFLAGELLATES	
2868	OTH	UNIDENTIFIED NANOFLAGELLATES	
2868	OTH	UNIDENTIFIED NANOFLAGELLATES	
120	DIN	UNIDENTIFIED DINOFLAGELLATES	
80	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIN	UNIDENTIFIED DINOFLAGELLATES	
40	DIN	TORODINIUM ROBUSTUM	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	GYRODINIUM SPP.	
20	DIN	GYRODINIUM SPP.	

.....  
16612 =TOTAL ABUNDANCE

.....  
DIVERSITY = 1.46874

NOVEMBER	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
6692	OTH	UNIDENTIFIED NANOFLAGELLATES	
6214	OTH	UNIDENTIFIED NANOFLAGELLATES	
5736	OTH	UNIDENTIFIED NANOFLAGELLATES	
100	DIA	UNIDENTIFIED PENNATE	
100	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIA	CHAETOCEROS SPP.	
60	DIN	TORODINIUM ROBUSTUM	
60	DIN	UNIDENTIFIED DINOFLAGELLATES	
40	DIA	COSCINODISCUS SPP.	
40	DIA	CHAETOCEROS SPP.	
20	DIN	UNIDENTIFIED DINOFLAGELLATES	
20	DIN	TORODINIUM ROBUSTUM	
20	DIA	UNIDENTIFIED CENTRIC	
20	DIA	UNIDENTIFIED PENNATE	
20	DIN	TORODINIUM ROBUSTUM	
20	DIN	OXYTOXUM SCEPTRUM	
20	DIN	GYRODINIUM SPP.	
20	DIN	CERATIUM TRICHOCEROS	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	UNIDENTIFIED CENTRIC	

.....  
19302 =TOTAL ABUNDANCE

.....  
DIVERSITY = 1.87563

DECEMBER	TRANSECT II	STATION 1	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
101814	OTH	UNIDENTIFIED NANOFLAGELLATES	
420	DIA	SKELETONEMA COSTATUM	
140	DIA	THALASSIONEMA NITZSCHIOIDES	
100	DIA	NITZSCHIA SPP.	
80	DIN	UNIDENTIFIED DINOFLAGELLATES	
60	DIA	UNIDENTIFIED PENNATE	
60	DIA	UNIDENTIFIED CENTRIC	
60	DIA	PLEUROSIGMA SPP.	
40	DIA	ASTEROMPHALUS SPP.	
20	DIN	TORODINIUM ROBUSTUM	

.....  
 102794 =TOTAL ABUNDANCE                      DIVERSITY = .10263

DECEMBER	TRANSECT II	STATION 1	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
65725	OTH	UNIDENTIFIED NANOFLAGELLATES	
100	DIN	UNIDENTIFIED DINOFLAGELLATES	
100	DIA	CHAETOCEROS SPP.	
80	DIN	TORODINIUM ROBUSTUM	
40	DIA	THALASSIONEMA NITZSCHIOIDES	
40	DIA	BACTERIASTRUM SPP.	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	NITZSCHIA LONGISSIMA	
20	DIA	COSCINODISCUS SPP.	

.....  
 66145 =TOTAL ABUNDANCE                      DIVERSITY = .07284

DECEMBER	TRANSECT	II	STATION 2	SURFACE
ABUNDANCE CELLS/LITER	CLASS		SPECIES	
37762	OTH		UNIDENTIFIED NANOFLAGELLATES	
420	DIA		NITZSCHIA SPP.	
300	DIA		LEPTOCYLINDRUS DANICUS	
100	DIN		TORODINIUM ROBUSTUM	
80	DIA		CHAETOCEROS SPP.	
60	DIN		UNIDENTIFIED DINOFLAGELLATES	
60	DIA		UNIDENTIFIED PENNATE	
60	DIA		RHIZOLENIA STOLTERFOTHII	
40	DIA		THALASSIONEMA NITZSCHIOIDES	
20	DIA		UNIDENTIFIED CENTRIC	

.....  
 38902 =TOTAL ABUNDANCE                      DIVERSITY = .26627

DECEMBER	TRANSECT	II	STATION 2	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS		SPECIES	
54970	OTH		UNIDENTIFIED NANOFLAGELLATES	
480	DIA		THALASSIONEMA NITZSCHIOIDES	
220	DIA		NITZSCHIA SPP.	
180	DIA		CHAETOCEROS AFFINIS	
100	DIA		UNIDENTIFIED PENNATE	
80	DIN		UNIDENTIFIED DINOFLAGELLATES	
60	DIA		HEMIAULUS HAUCKII	
40	DIA		COSCIODISCUS SPP.	
20	DIN		TORODINIUM ROBUSTUM	
20	DIN		AMPHIDINIUM SPP.	
20	DIA		RHIZOLENIA ALATA	
20	DIA		PLEUROSIGMA SPP.	
20	DIA		NITZSCHIA LONGISSIMA	
20	DIA		NAVICULA WARWIKAE	
20	DIA		NAVICULA DISTANS	
20	DIA		CHAETOCEROS PERUVIANUS	
20	DIA		BACTERIASTRUM ELONGATUM	

.....  
 56310 =TOTAL ABUNDANCE                      DIVERSITY = .23490



DECEMBER	TRANSECT II	STATION 3	SURFACE
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
3346	OTH	UNIDENTIFIED NANOFLAGELLATES	
80	DIN	UNIDENTIFIED DINOFLAGELLATES	
80	DIA	NITZSCHIA SPP.	
60	DIA	THALASSIONEMA NITZSCHIOIDES	
40	DIA	NAVICULA WARWICKAE	
40	DIA	COSCIDISCUS SPP.	
20	DIA	UNIDENTIFIED PENNATE	
20	DIA	PLEUROSIGMA SPP.	
20	DIA	DIPLONEIS CRABRO	
.....			
3706 =TOTAL ABUNDANCE		DIVERSITY =	.73255

DECEMBER	TRANSECT II	STATION 3	1/2 PHOTIC
ABUNDANCE CELLS/LITER	CLASS	SPECIES	
6692	OTH	UNIDENTIFIED NANOFLAGELLATES	
140	DIA	THALASSIONEMA NITZSCHIOIDES	
120	DIN	UNIDENTIFIED DINOFLAGELLATES	
120	DIN	TORODINIUM ROBUSTUM	
100	DIA	UNIDENTIFIED PENNATE	
80	DIA	THALASSIOTHRIX FRAUNFELDII	
60	DIA	NITZSCHIA SPP.	
40	DIA	PLEUROSIGMA SPP.	
40	DIA	NITZSCHIA LONGISSIMA	
40	DIA	HEMIAULUS MEMBRANACEOUS	
20	DIN	DINOPHYSIS SPP.	
20	DIN	AMPHISOLENIA BIDENTATA	
20	DIA	UNIDENTIFIED CENTRIC	
.....			
7492 =TOTAL ABUNDANCE		DIVERSITY =	.84348

APPENDIX J

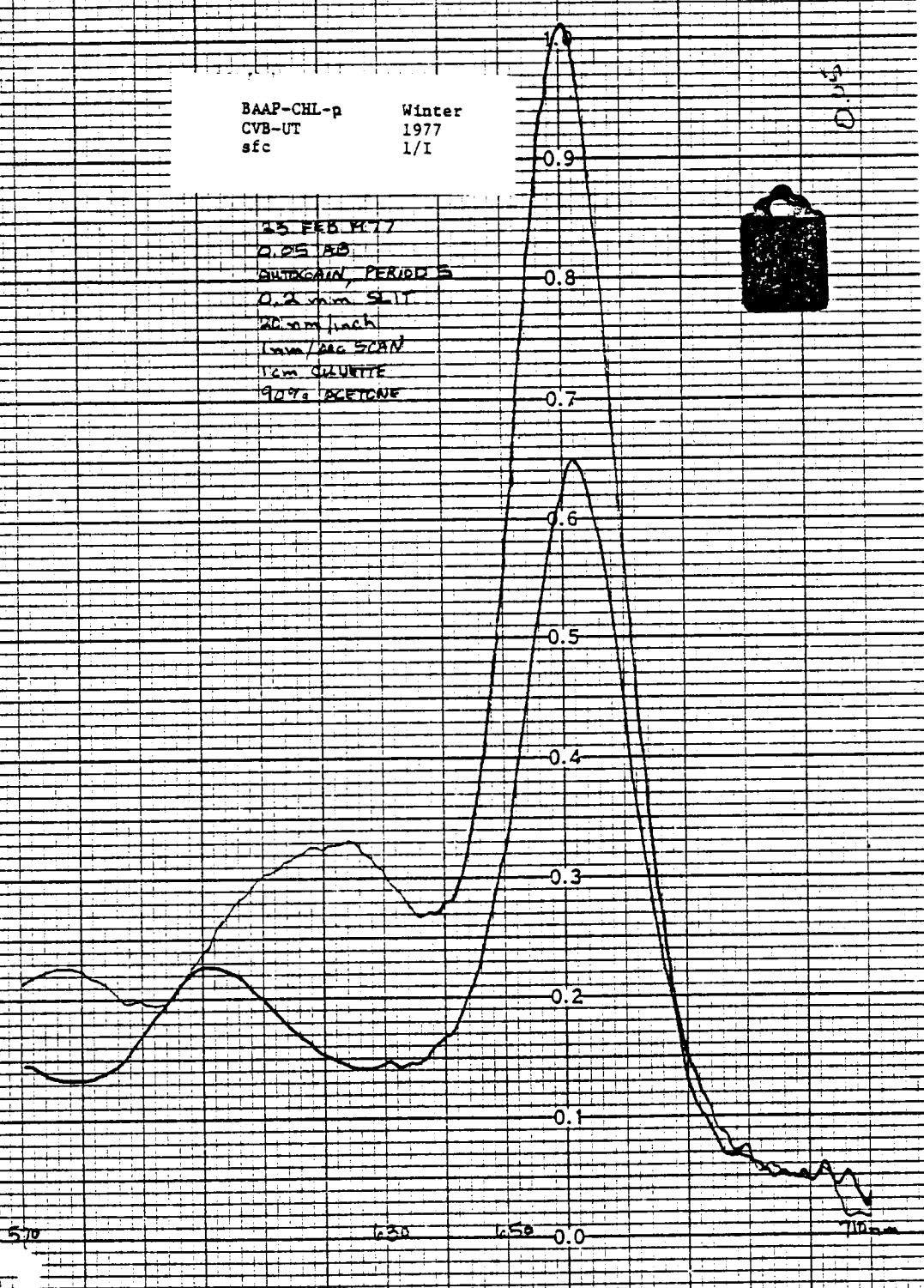
FIGURE 1

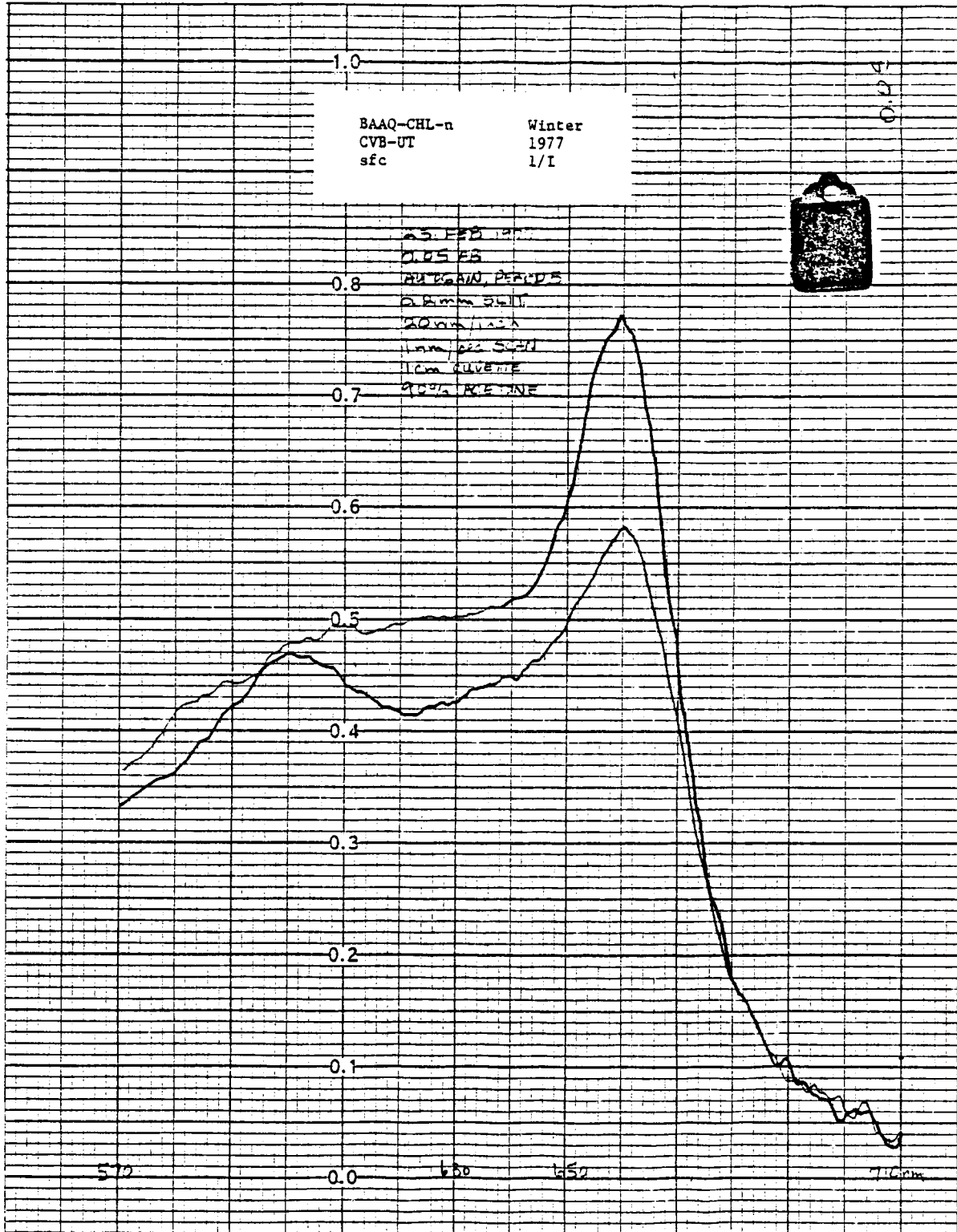
RAW CHLOROPHYLL CURVES  
ABSORBANCE CURVES USED TO CALCULATE ALL CHLOROPHYLL a VALUES

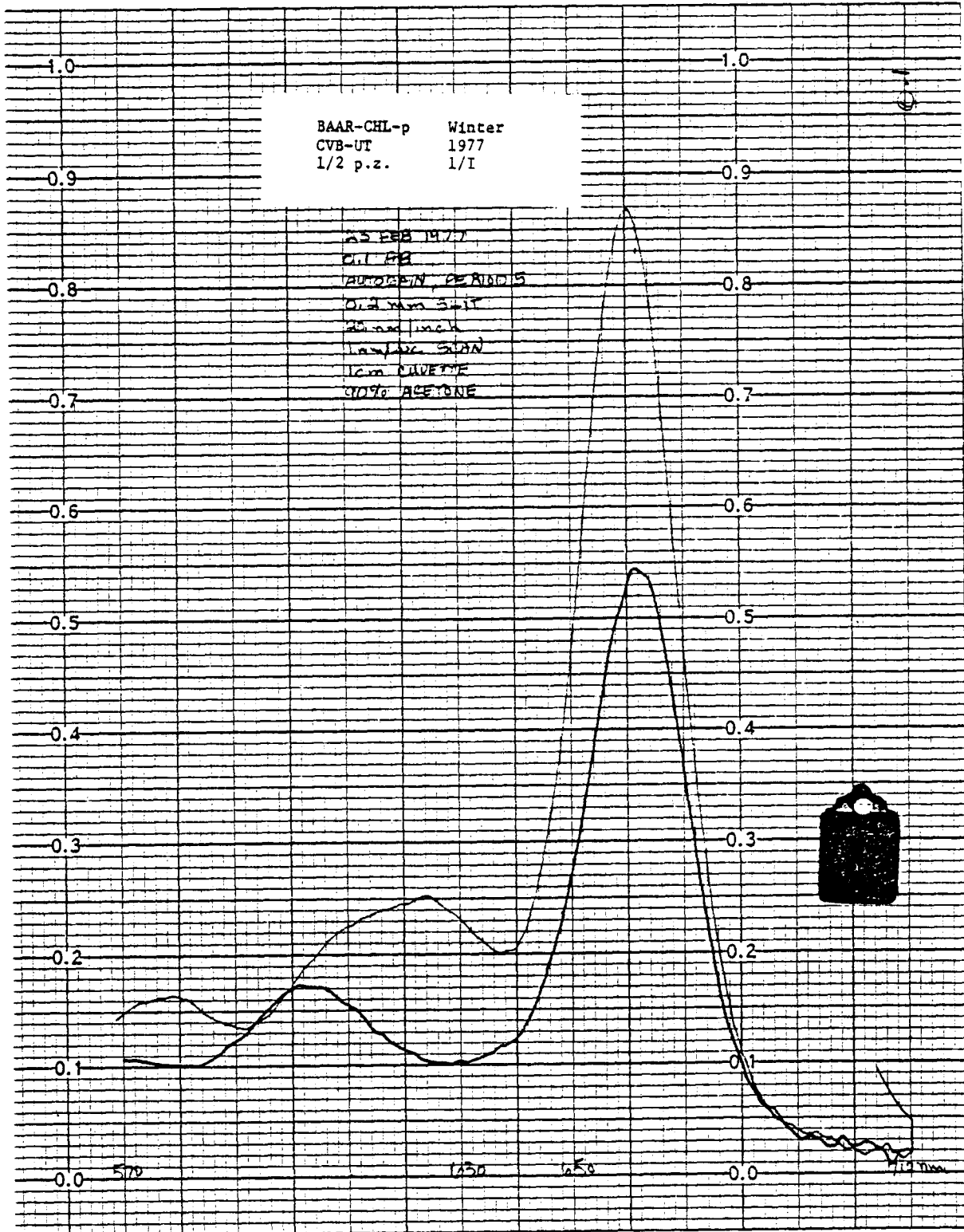
BAAP-CHL-p Winter  
CVB-UT 1977  
sfc 1/I

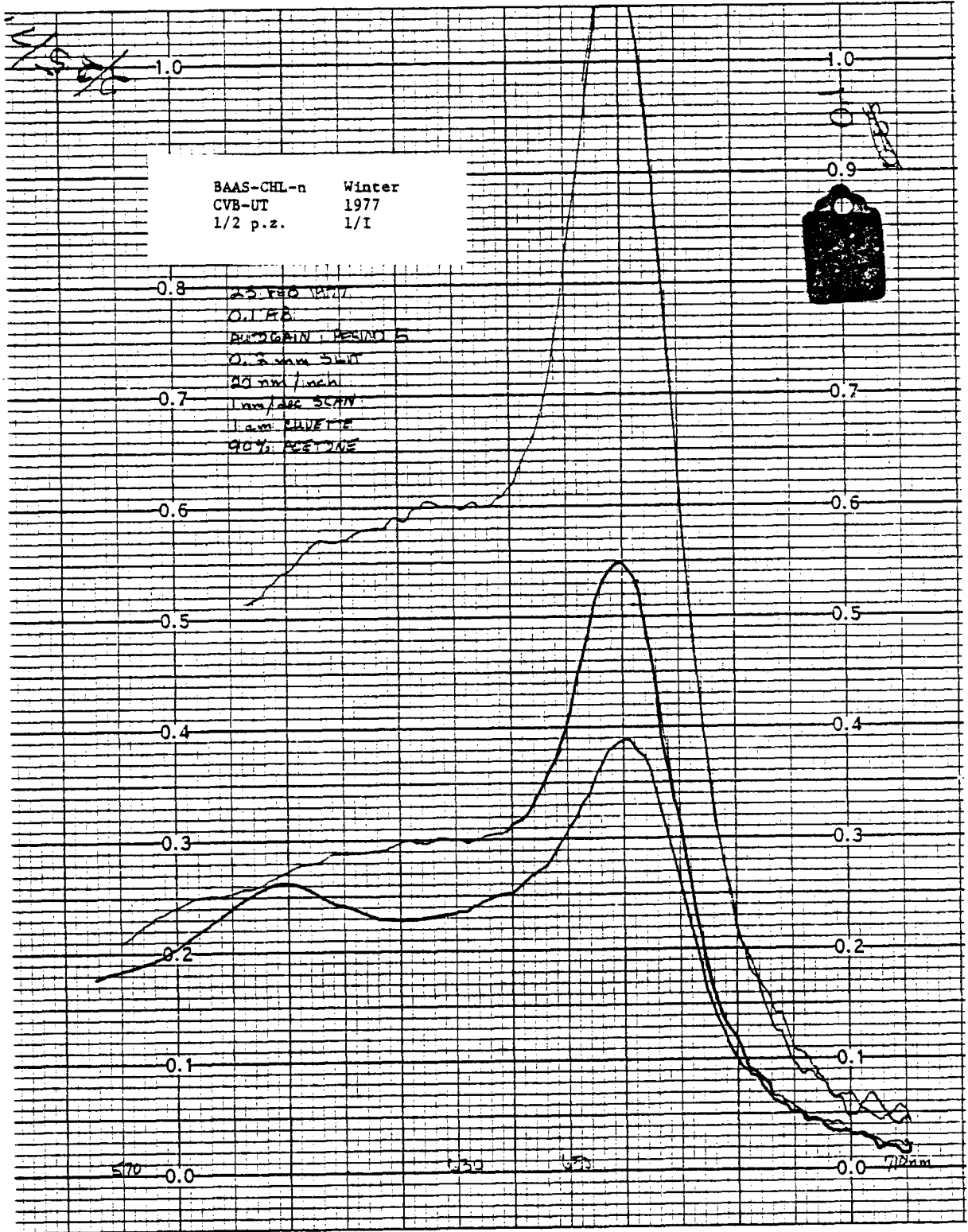
0.15

25 FEB 1977  
0.05 AB  
OUTGAIN PERIODS  
0.2 mm SLIT  
20 mm path  
1mm/SEC SCAN  
1cm COLUETTE  
90% ACETONE





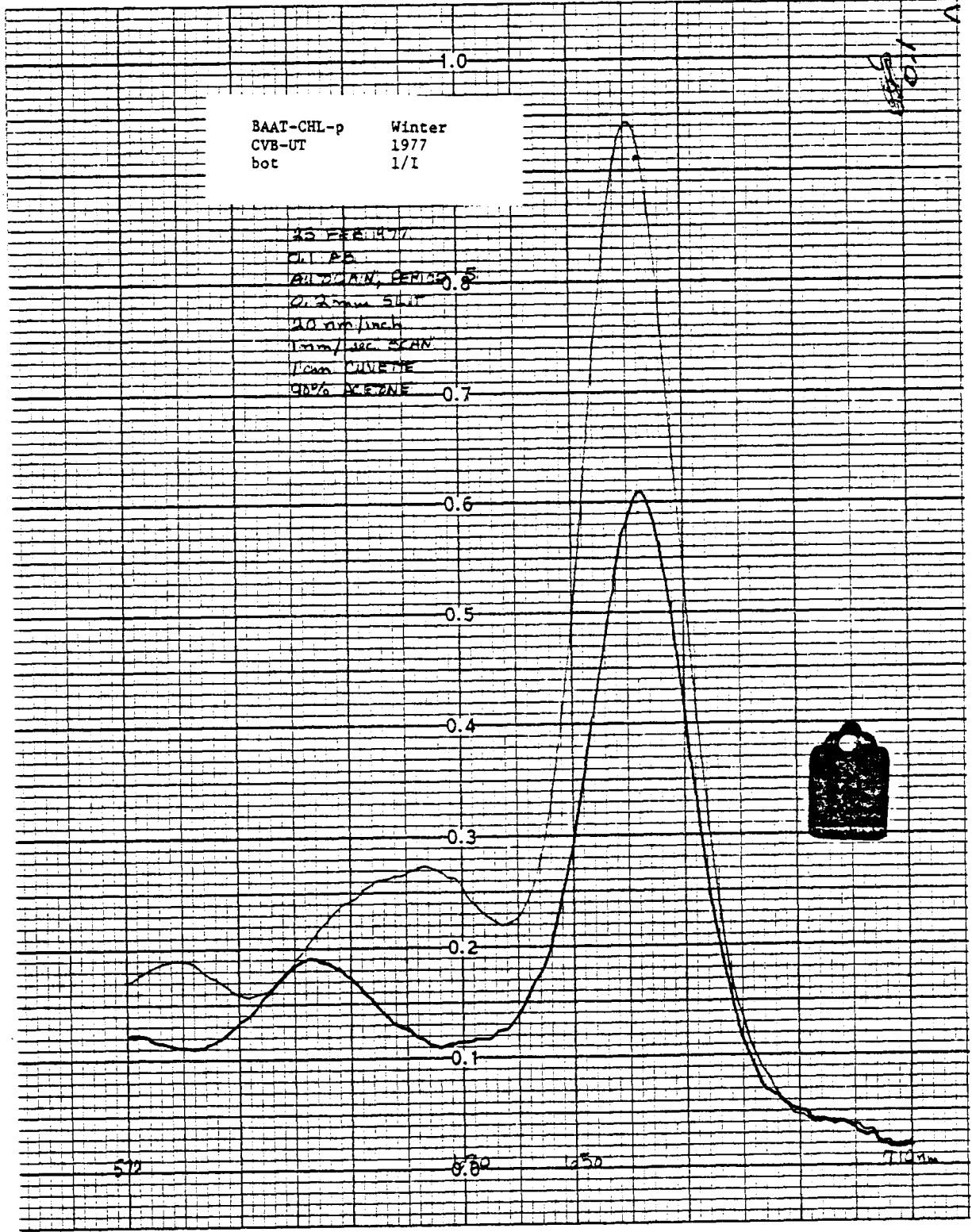




BAAT-CHL-p Winter  
CVB-UT 1977  
bot 1/I

15 FEB 1977  
C.I. 25  
AULDWIN, PERIOD 8  
0.25mm slit  
10 rpm/inch  
1mm/sec SCAN  
10cm CUVETTE  
90% XYLENE 0.7

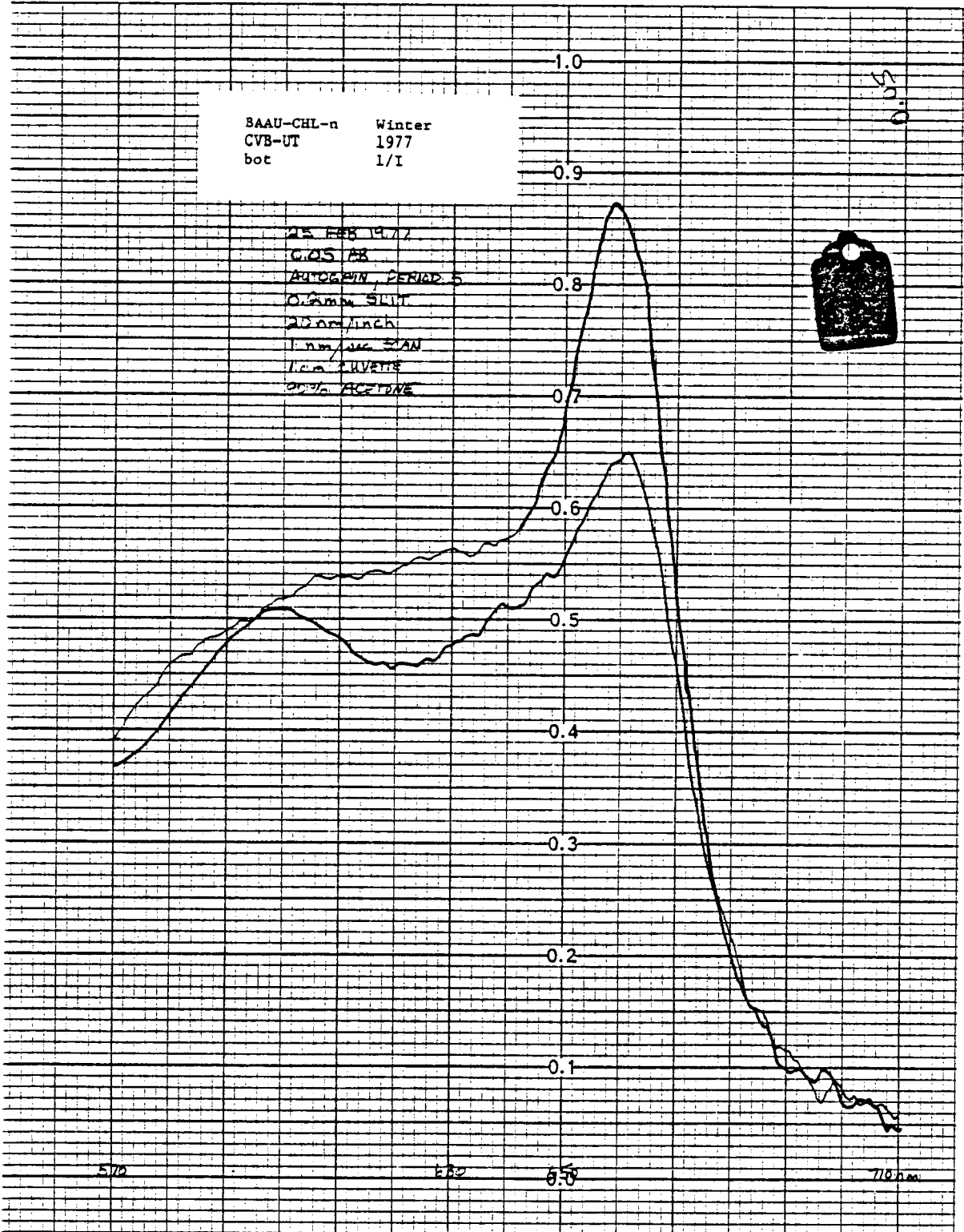
1101



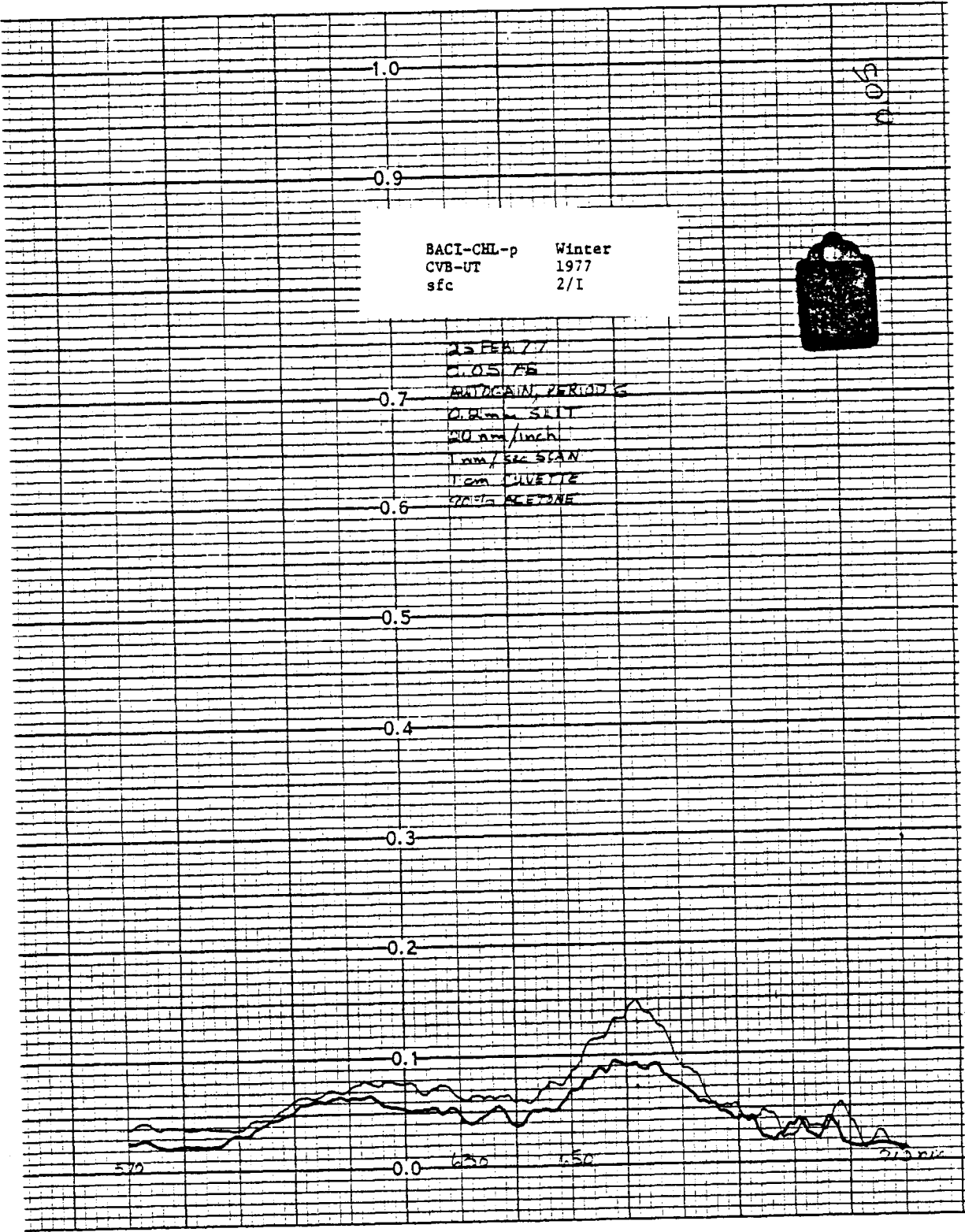
BAAU-CHL-n	Winter
CVB-UT	1977
bot	1/I

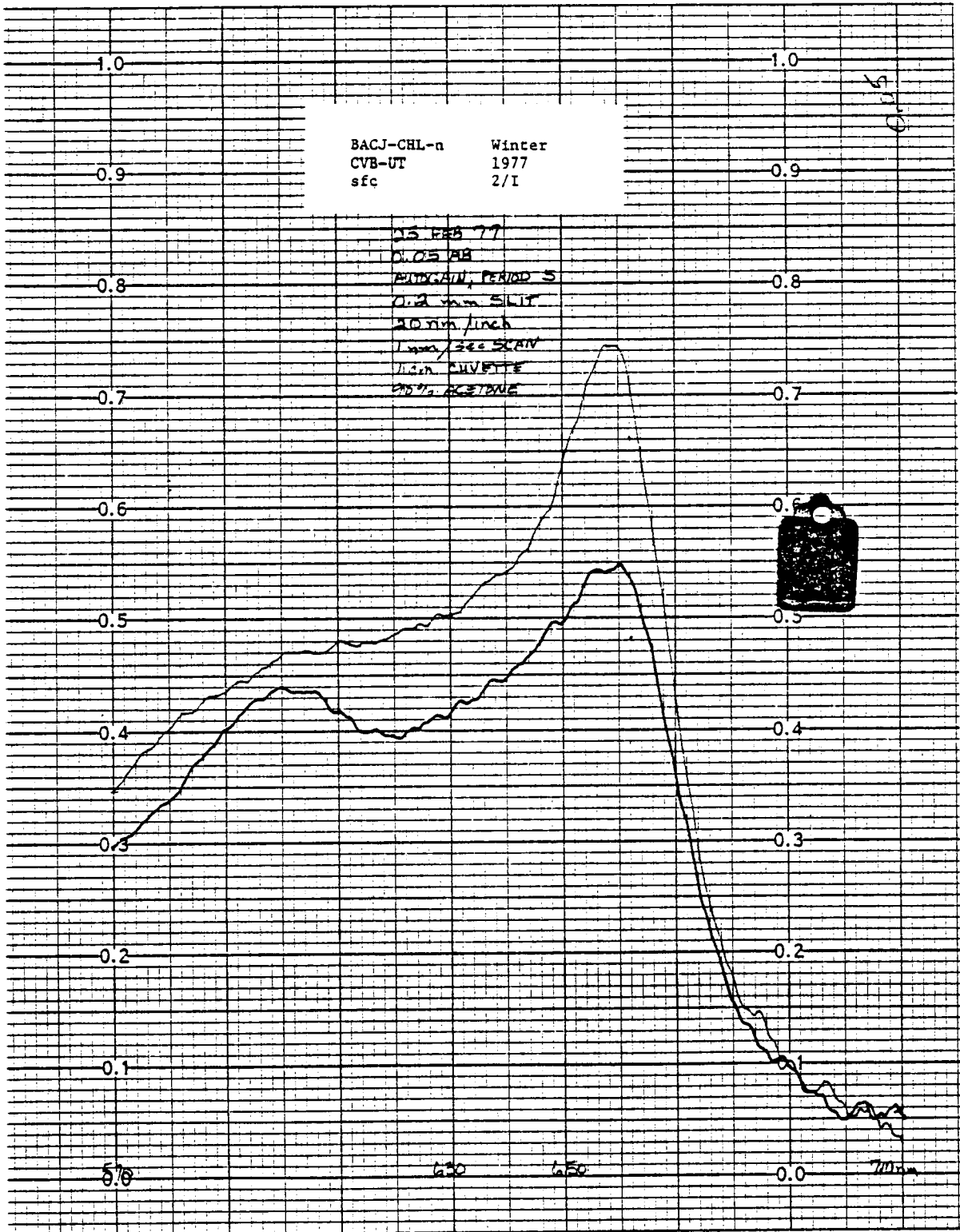
25 FEB 1977  
 6.05 AM  
 AUTOCORIN, PERIOD 5  
 0.5mm SWEEP  
 25nm/linch  
 1 nm/sec SCAN  
 1cm TRVETS  
 0.5% RESOLVE

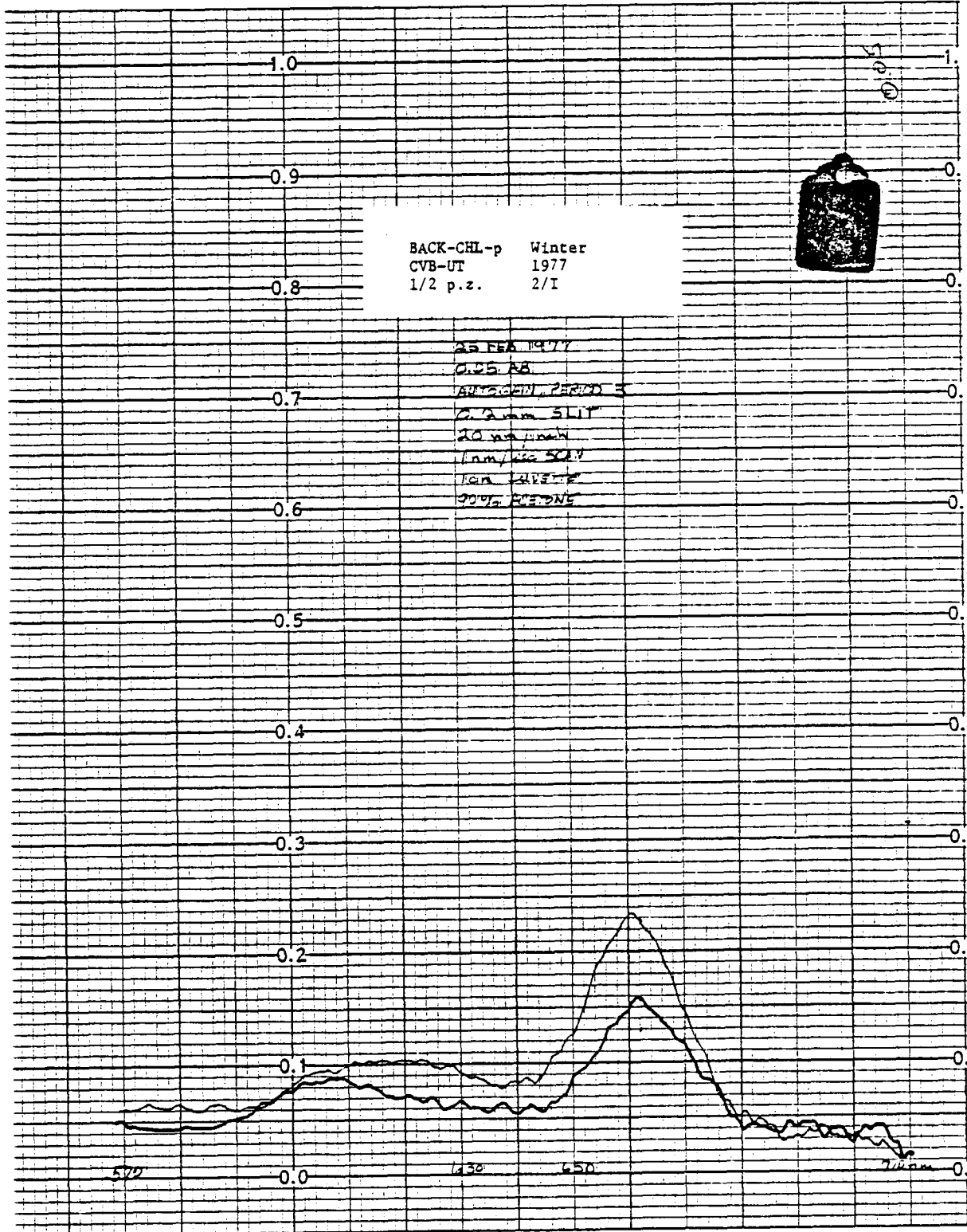
57  
 0.5

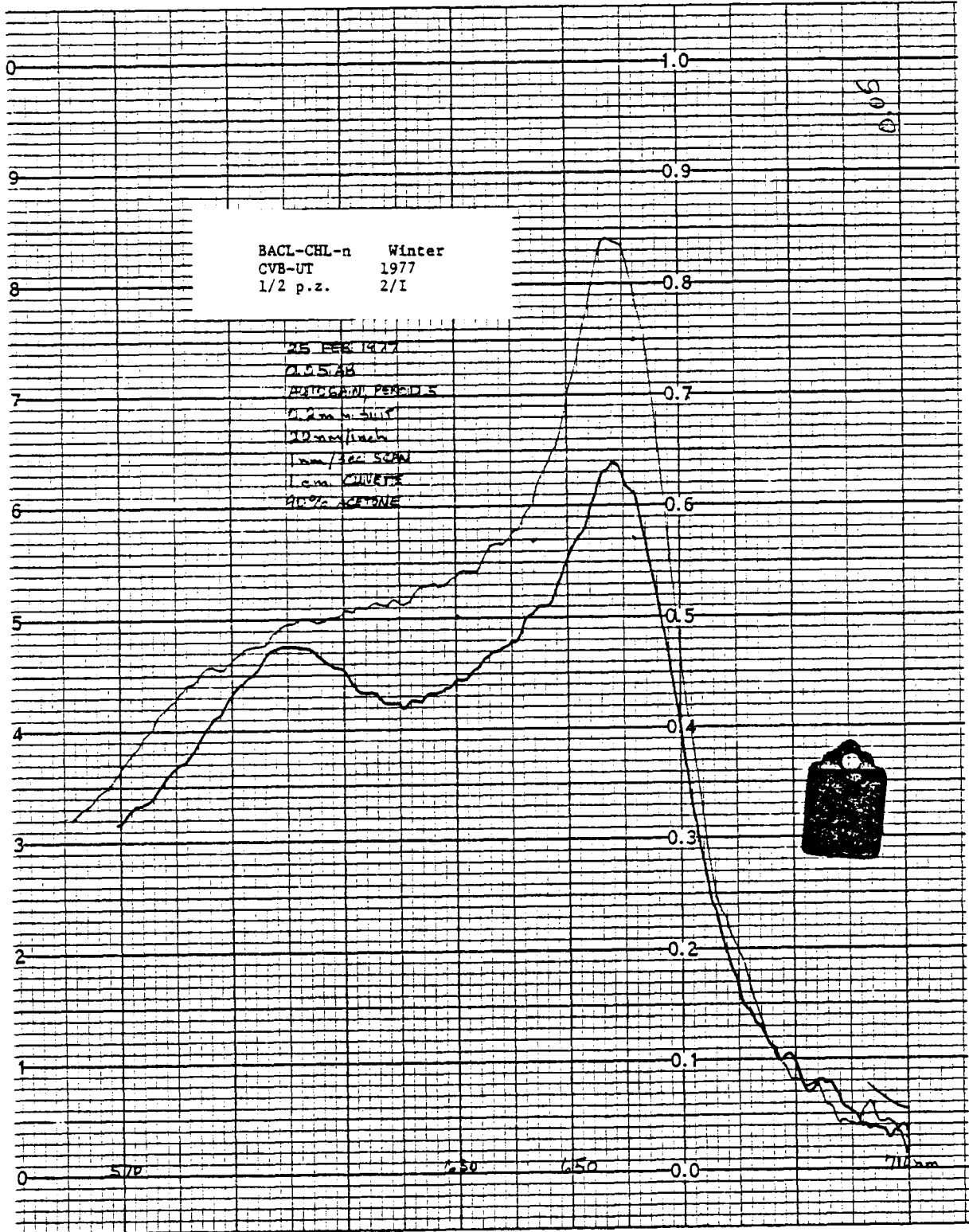








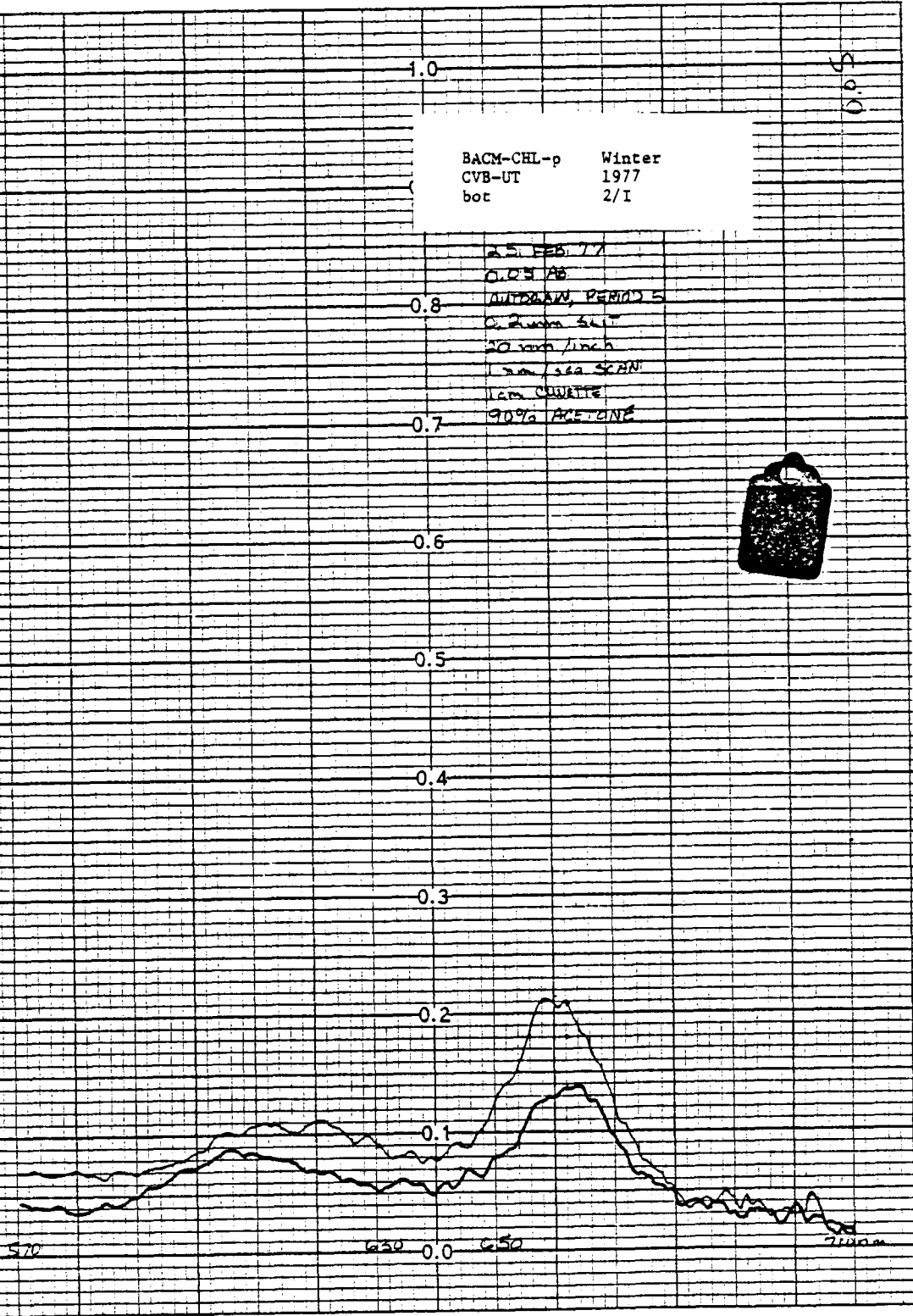


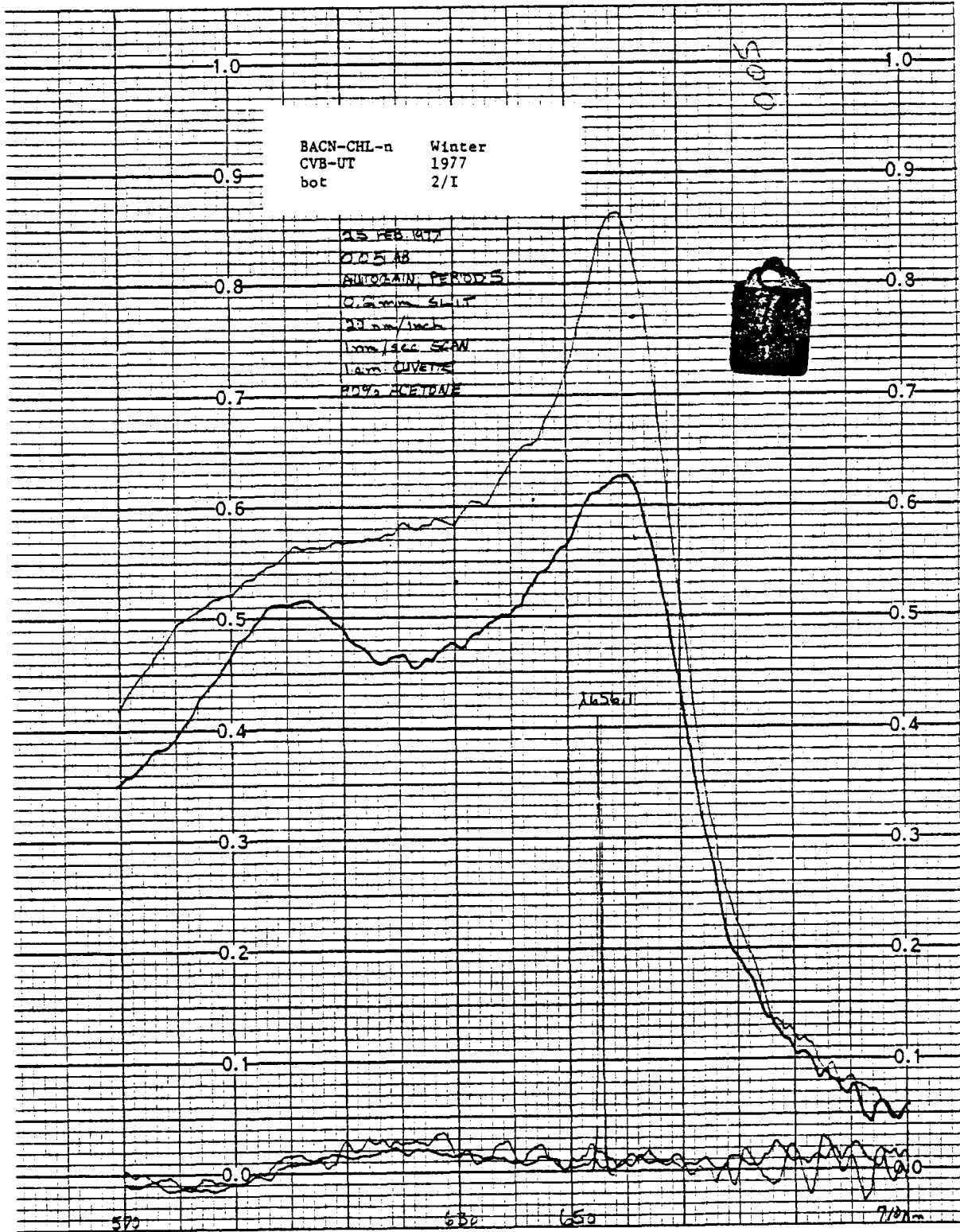


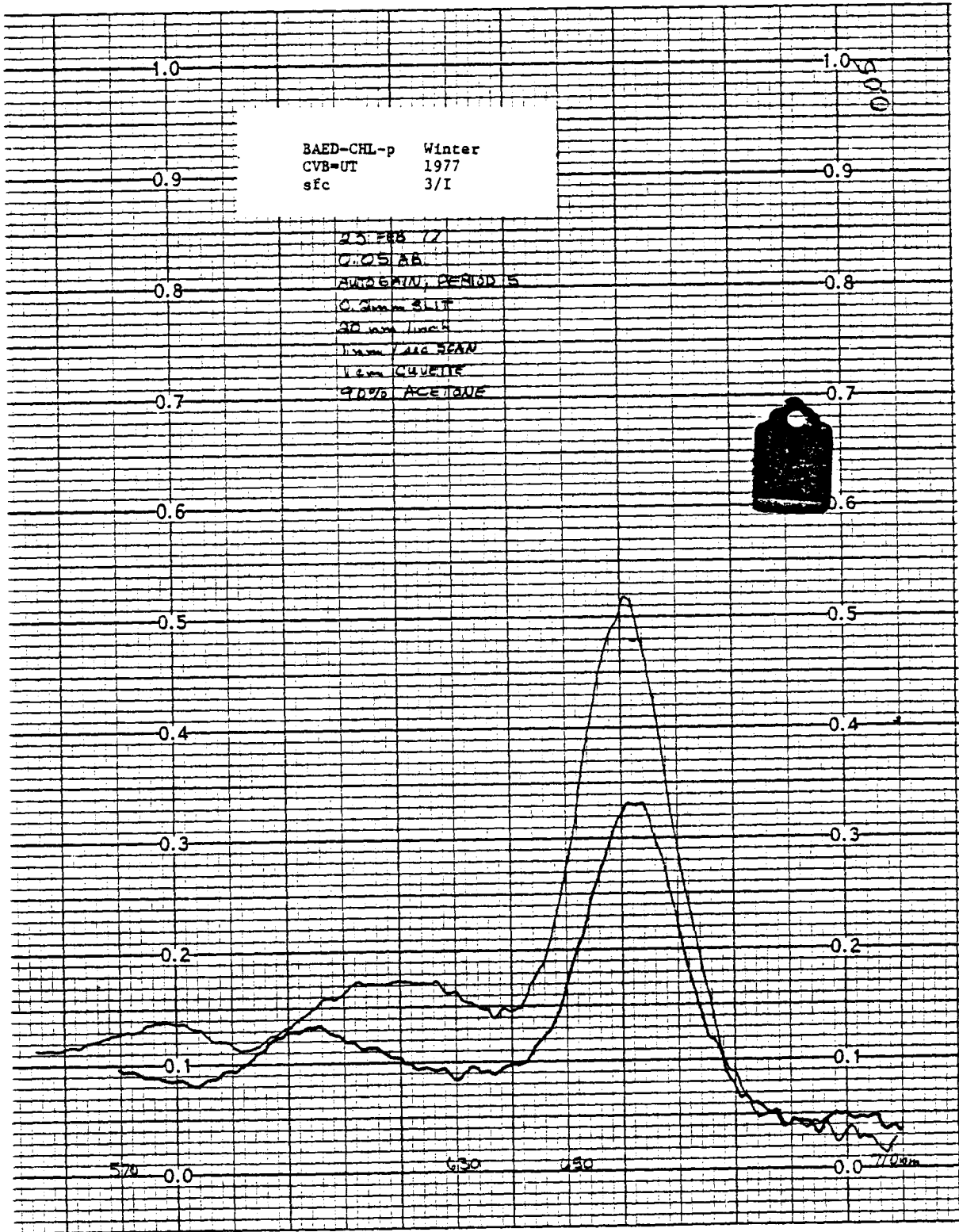
D.P. 5

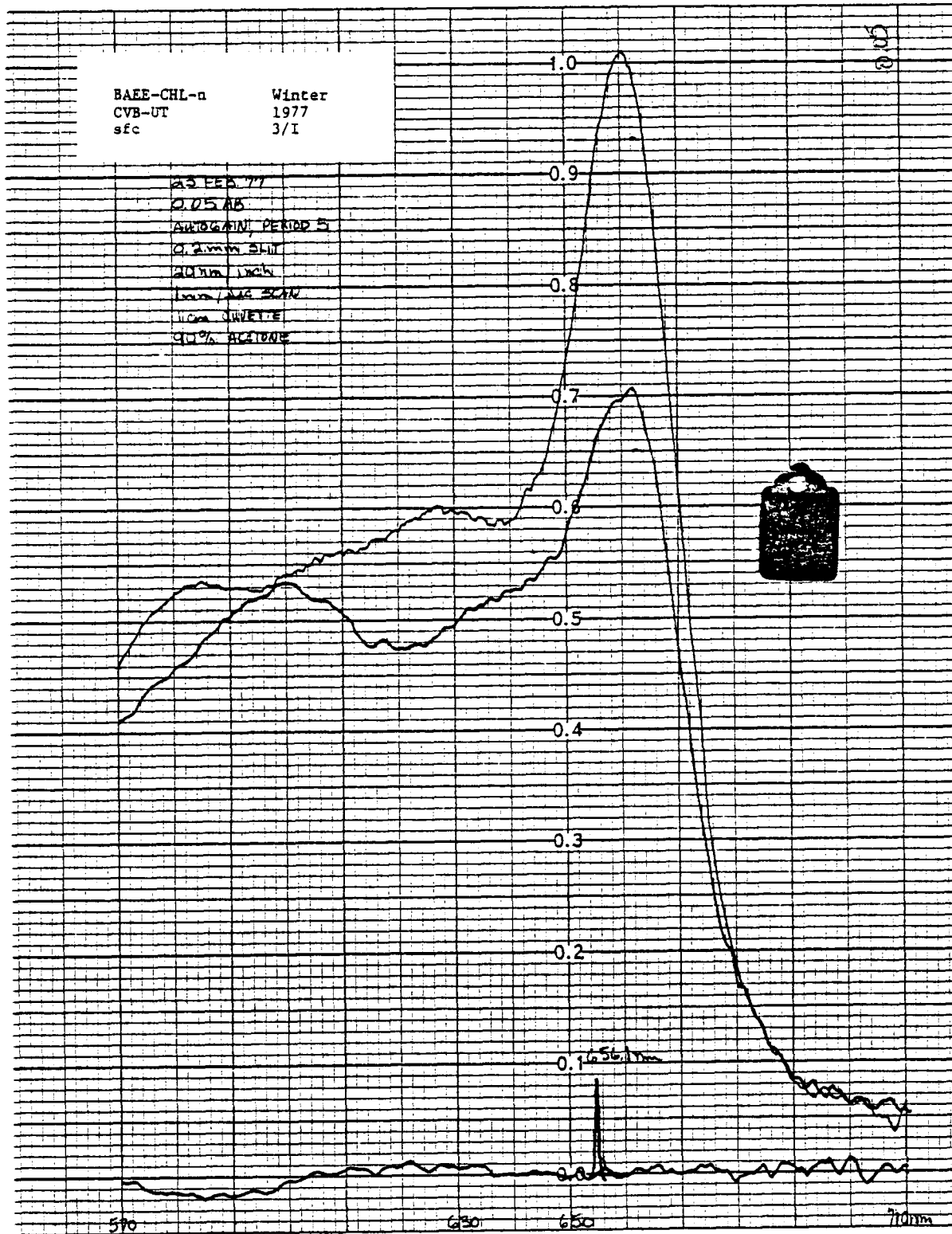
BACM-CHL-p Winter  
CVB-UT 1977  
bot 2/I

25 FEB 77  
0.03 AB  
AUTOMAN, PERIOD 5  
0.2 inch slit  
20 inch / inch  
1 mm sea SPAN  
1 cm COUETTE  
90% ACE-ONE

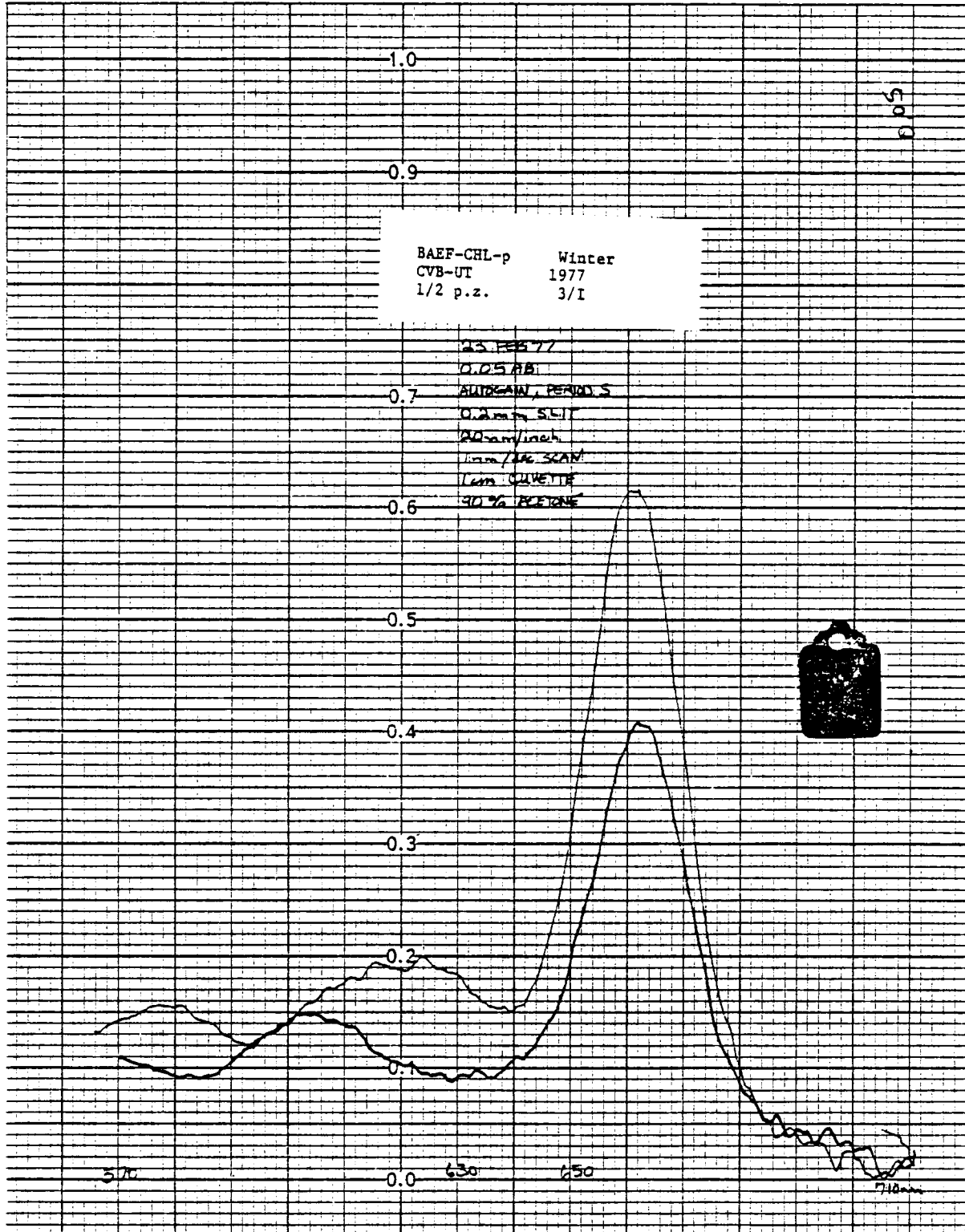


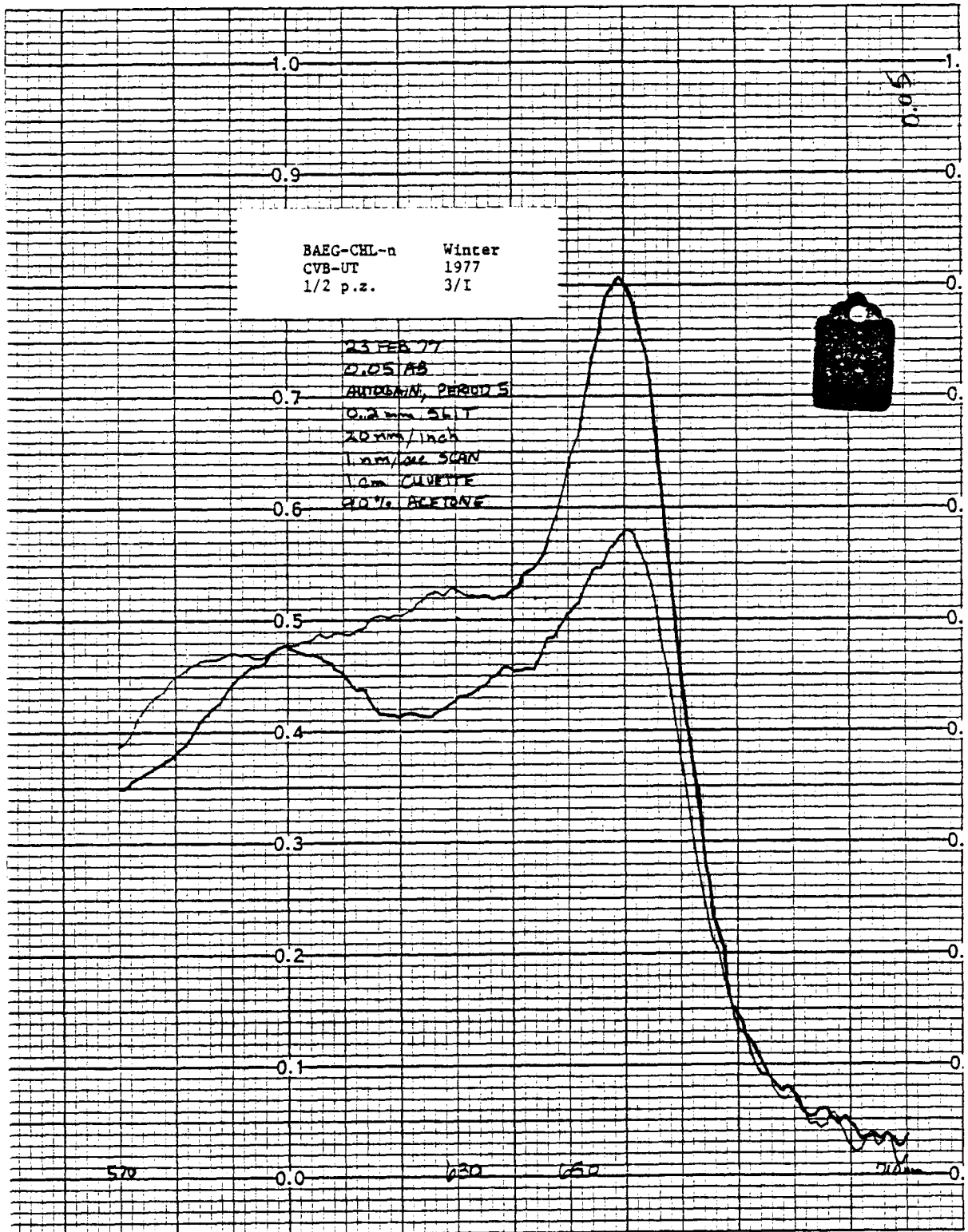


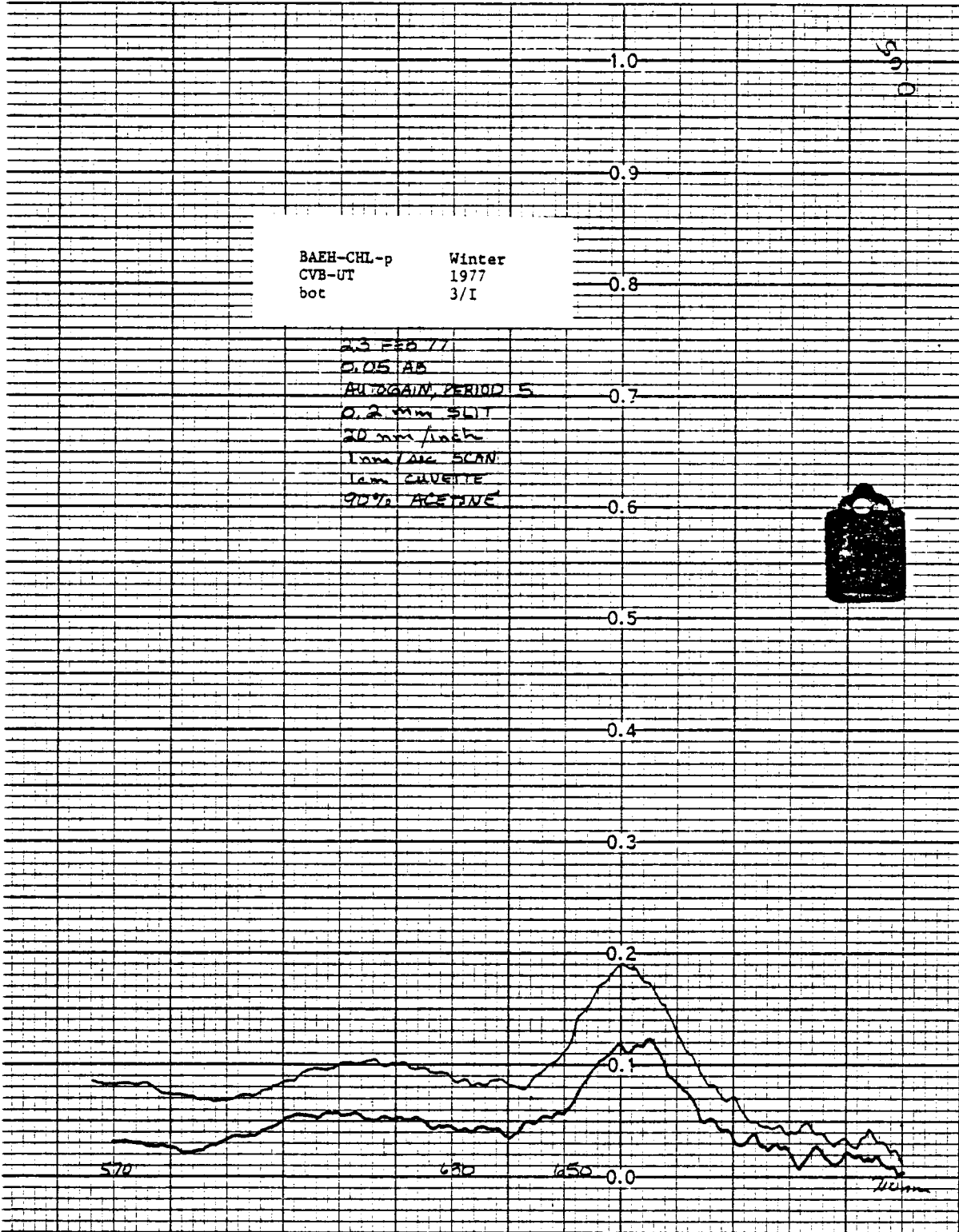


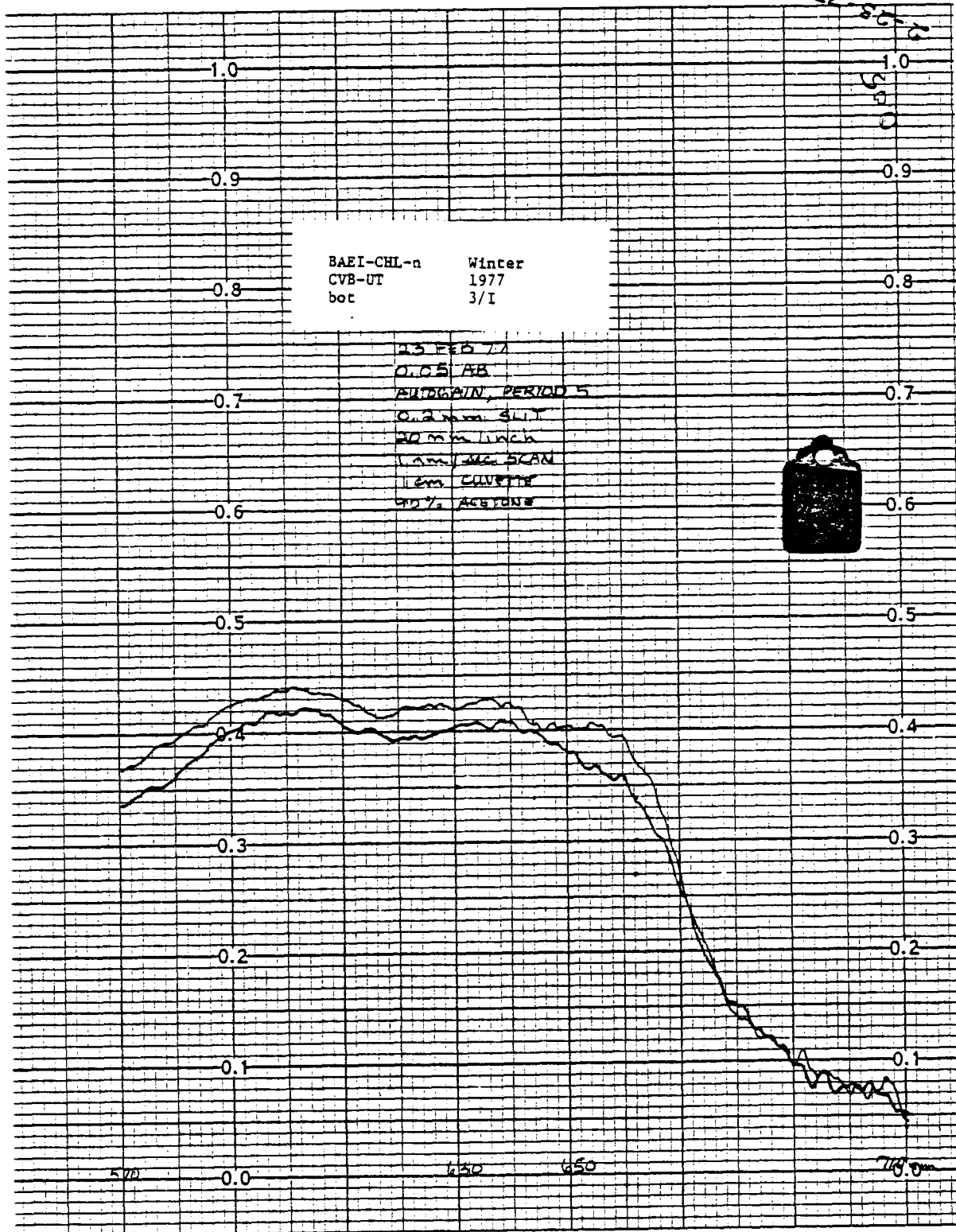


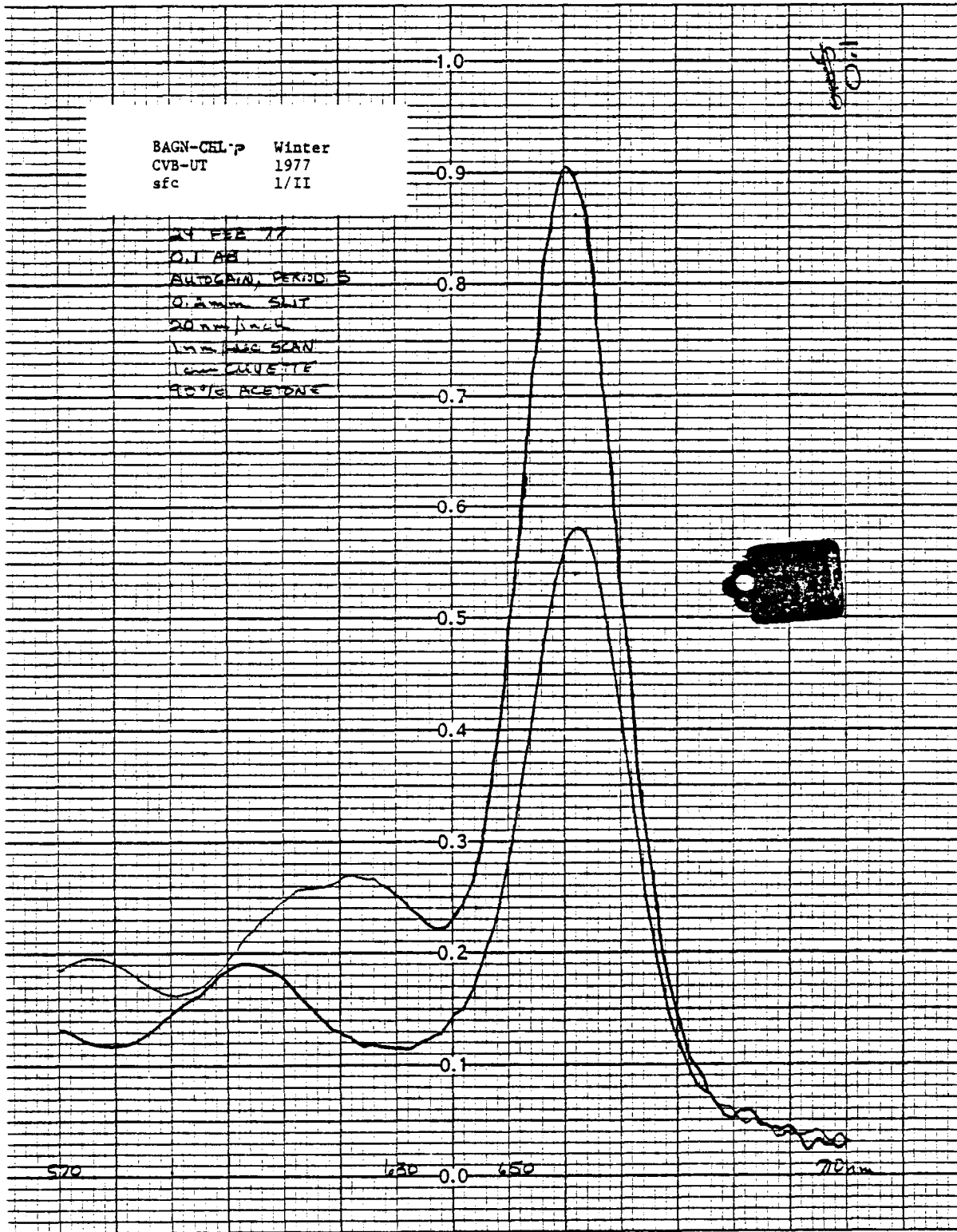


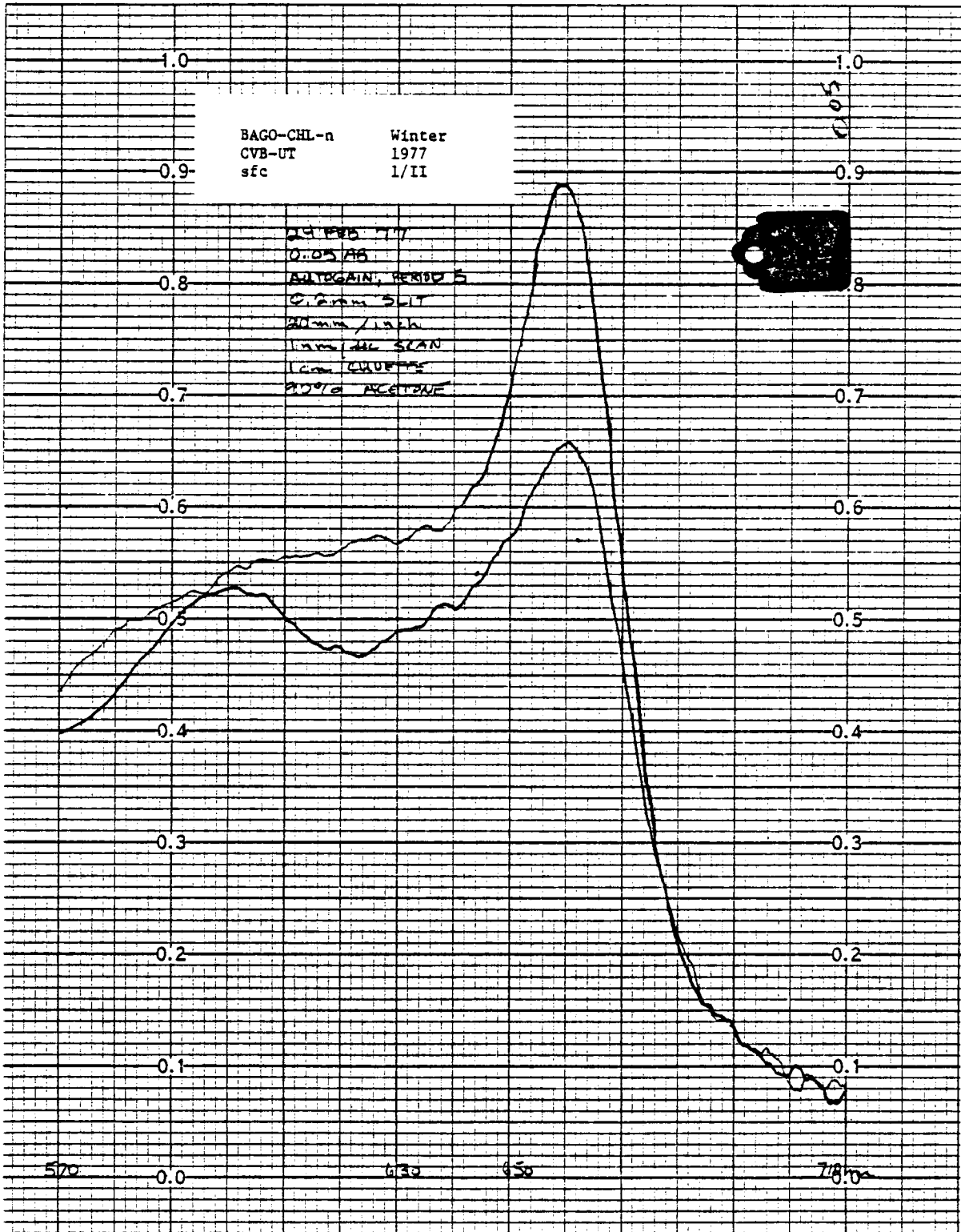








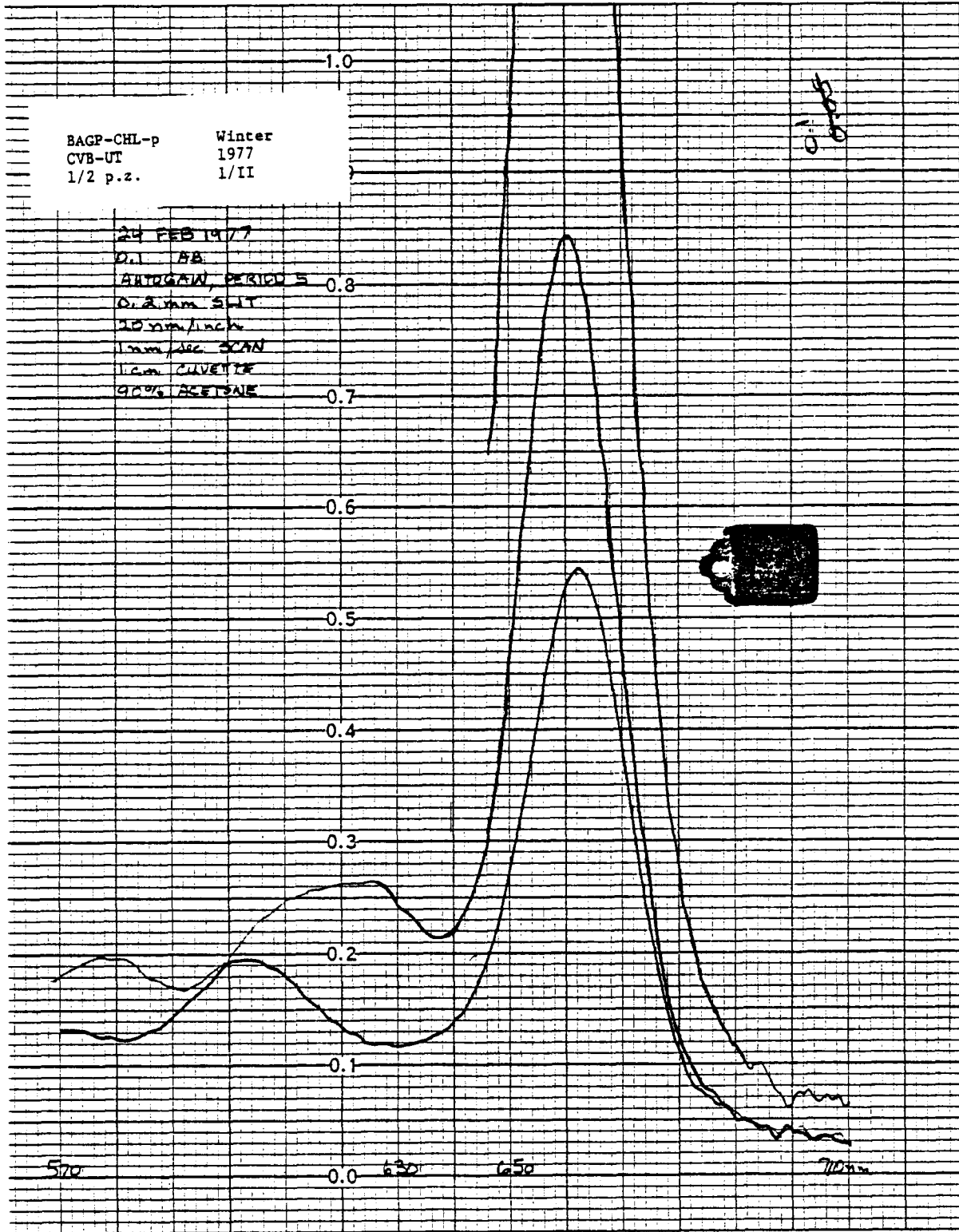


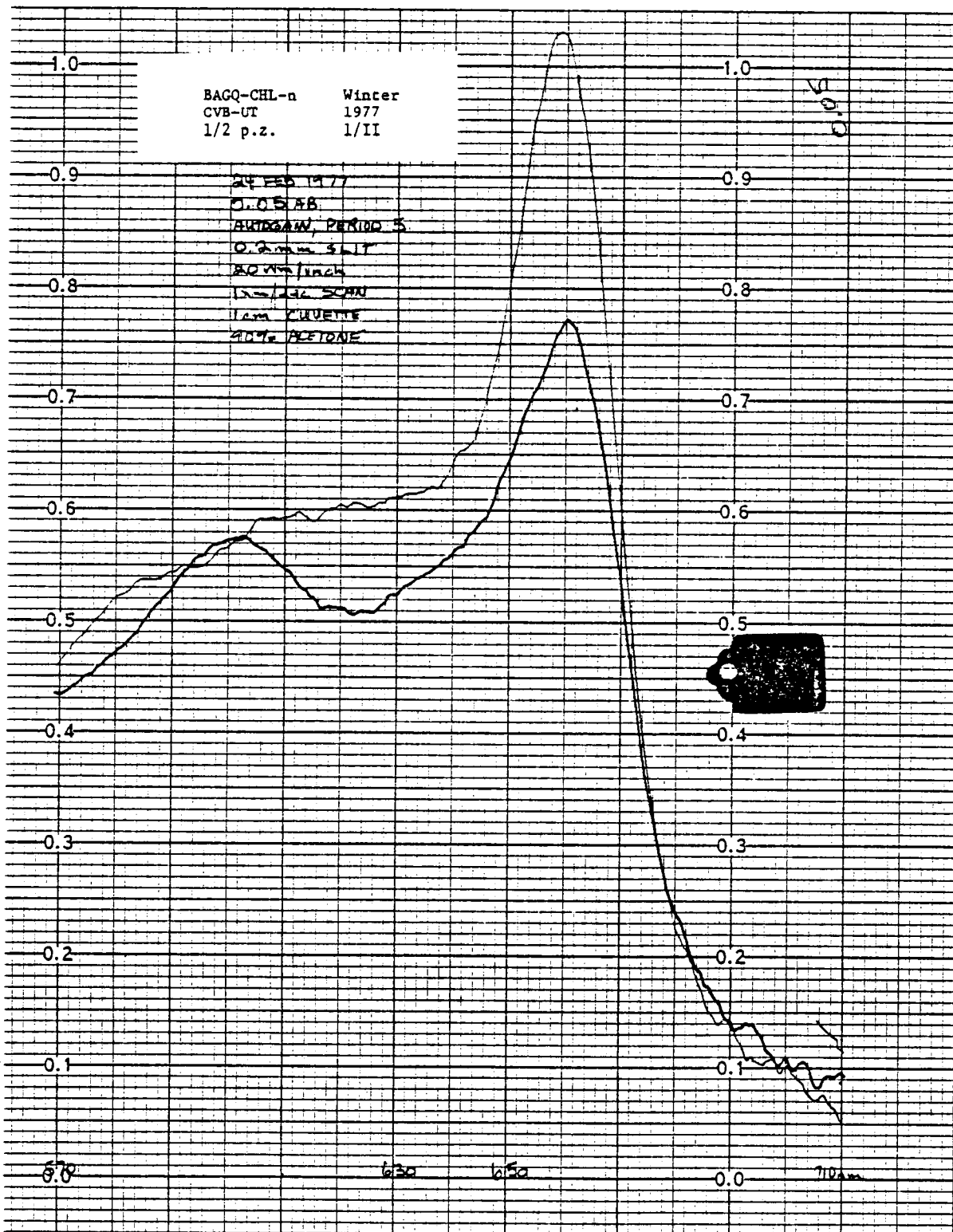


BAGP-CHL-p Winter  
 CVB-UT 1977  
 1/2 p.z. 1/II

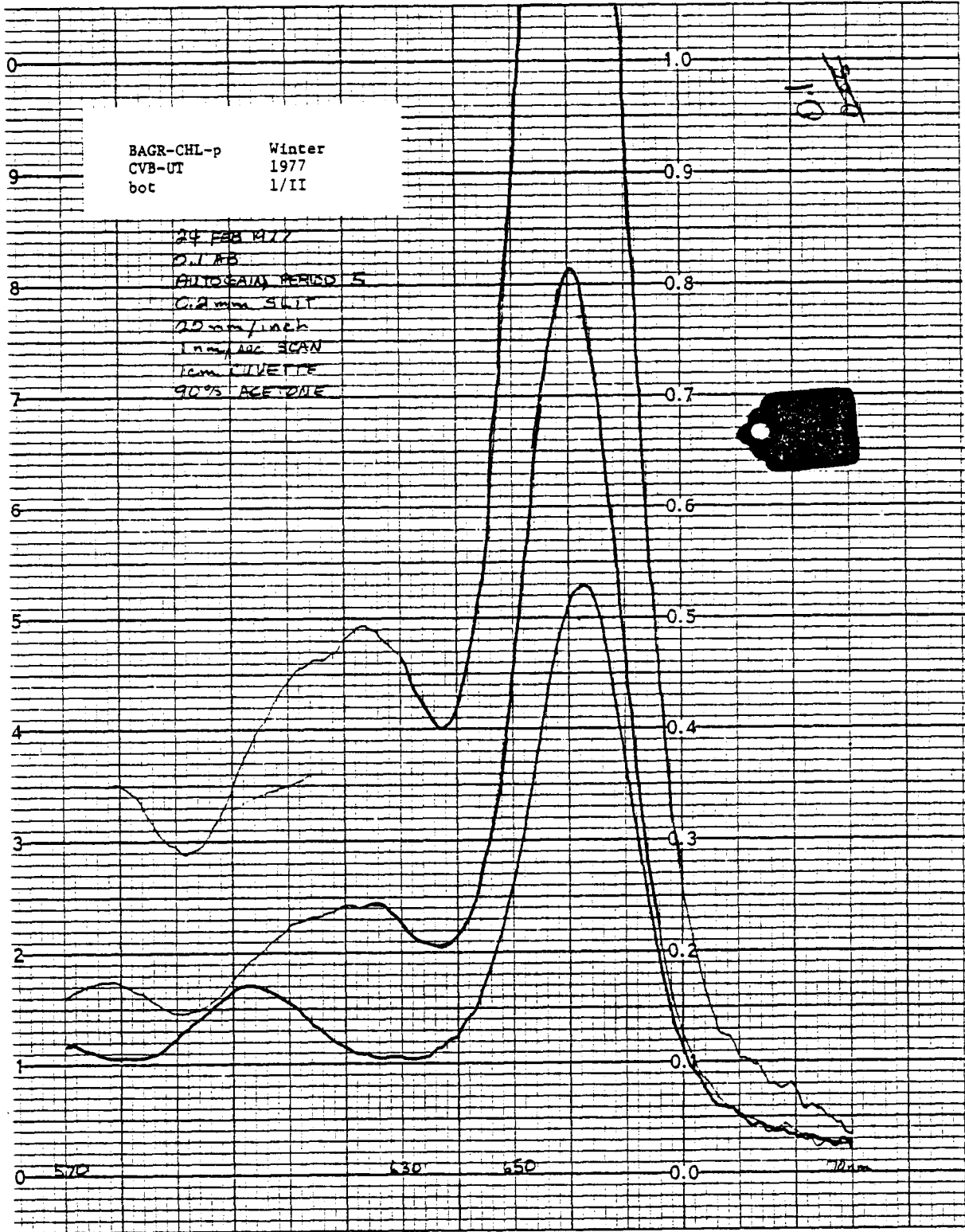
*Handwritten:* 0.8

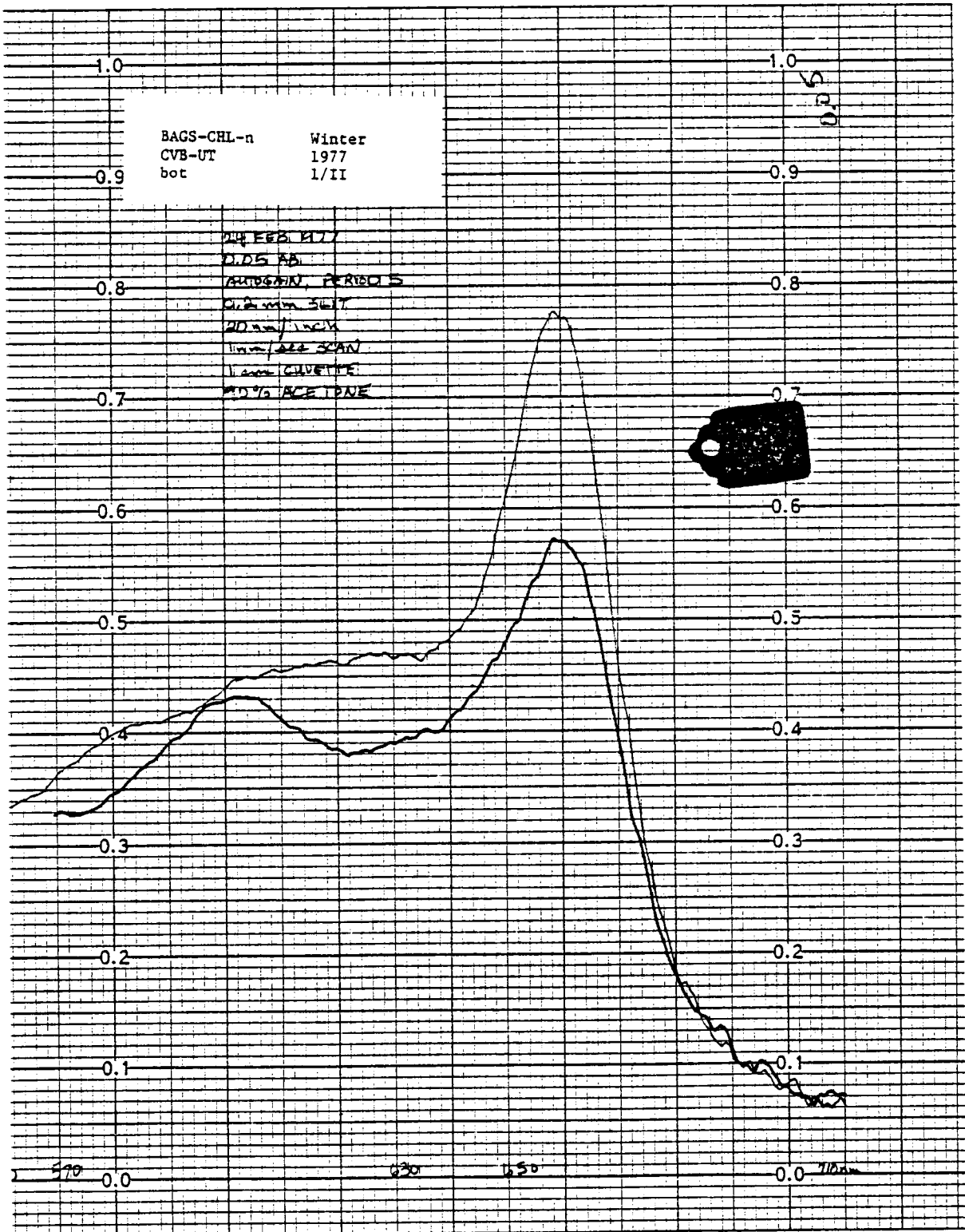
24 FEB 1977  
 0.1 AA  
 AIRGAIN PERIOD 5 0.8  
 0.2 mm SLIT  
 20 mm/Inch  
 1 mm/sec SCAN  
 1 cm CUVETTE  
 90% ACETONE 0.7

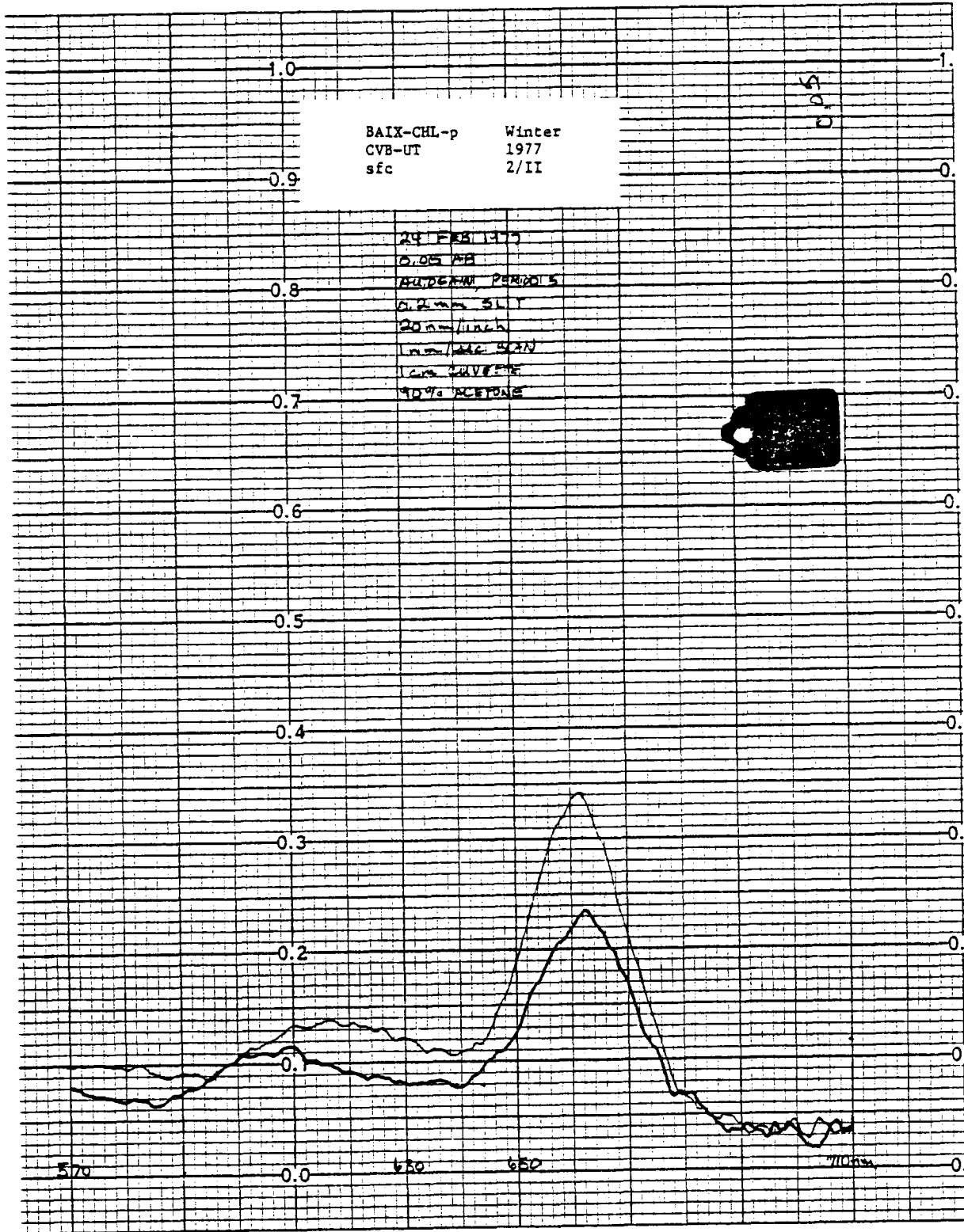


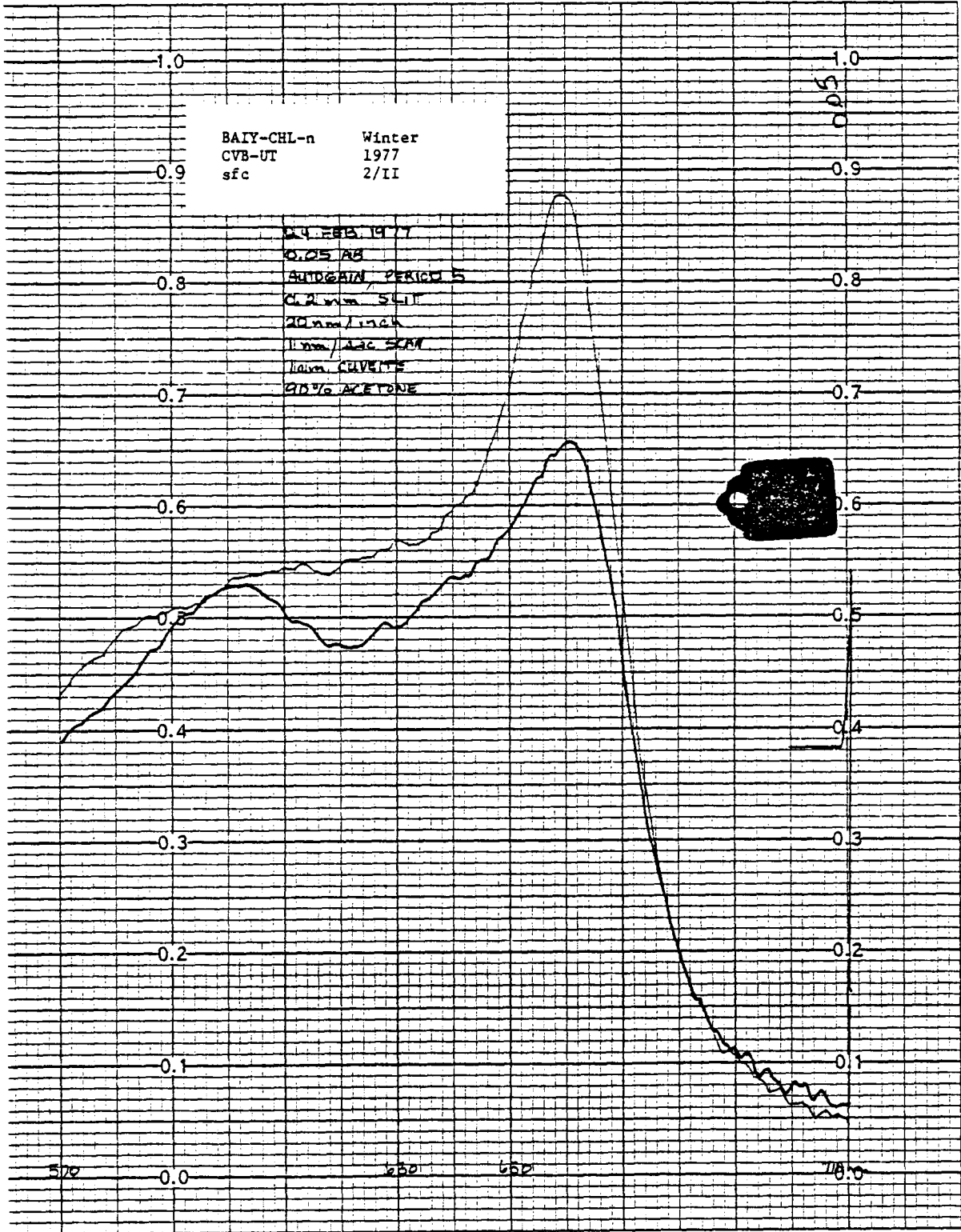








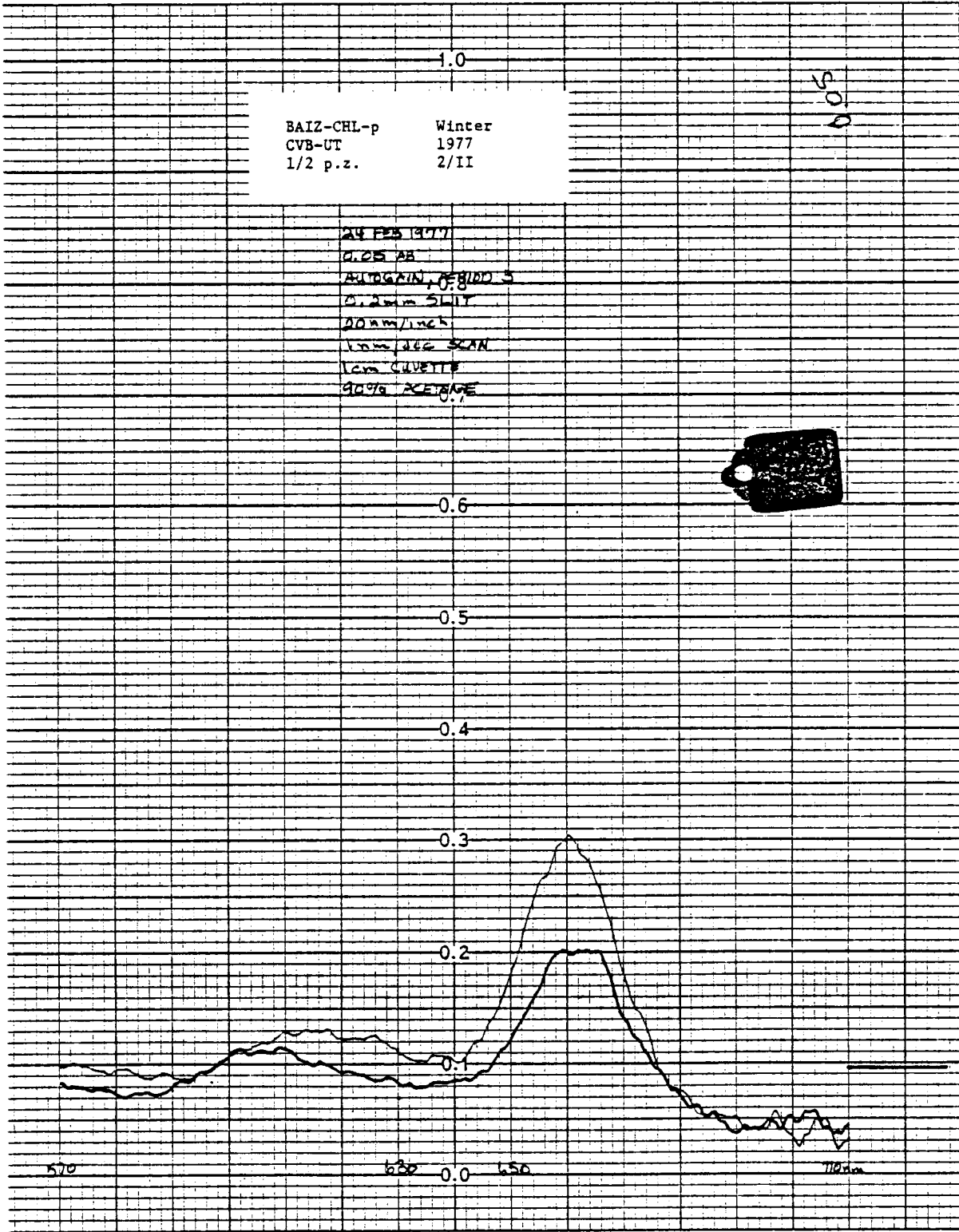
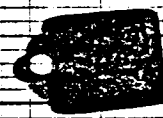




BAIZ-CHL-p Winter  
CVB-UT 1977  
1/2 p.z. 2/II

0.5

24 FEB 1977  
0.25 AB  
AUTOGAIN, 0.8  
0.2mm SLIT  
20mm/inch  
1mm DEG SCAN  
1cm CUVETTE  
90% ACETONE



570

600

0.0

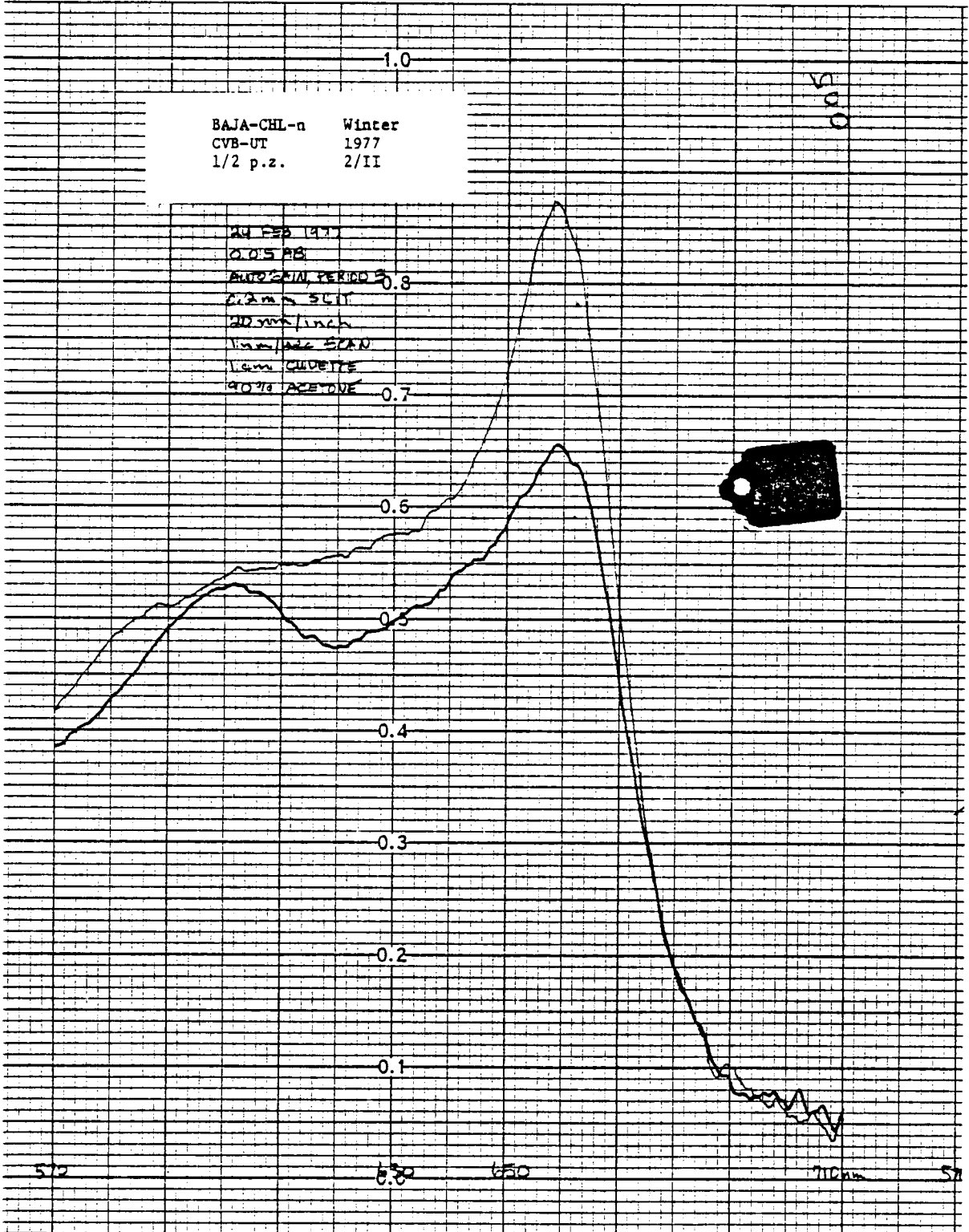
650

700

BAJA-CHL-n Winter  
 CVB-UT 1977  
 1/2 p.z. 2/II

500

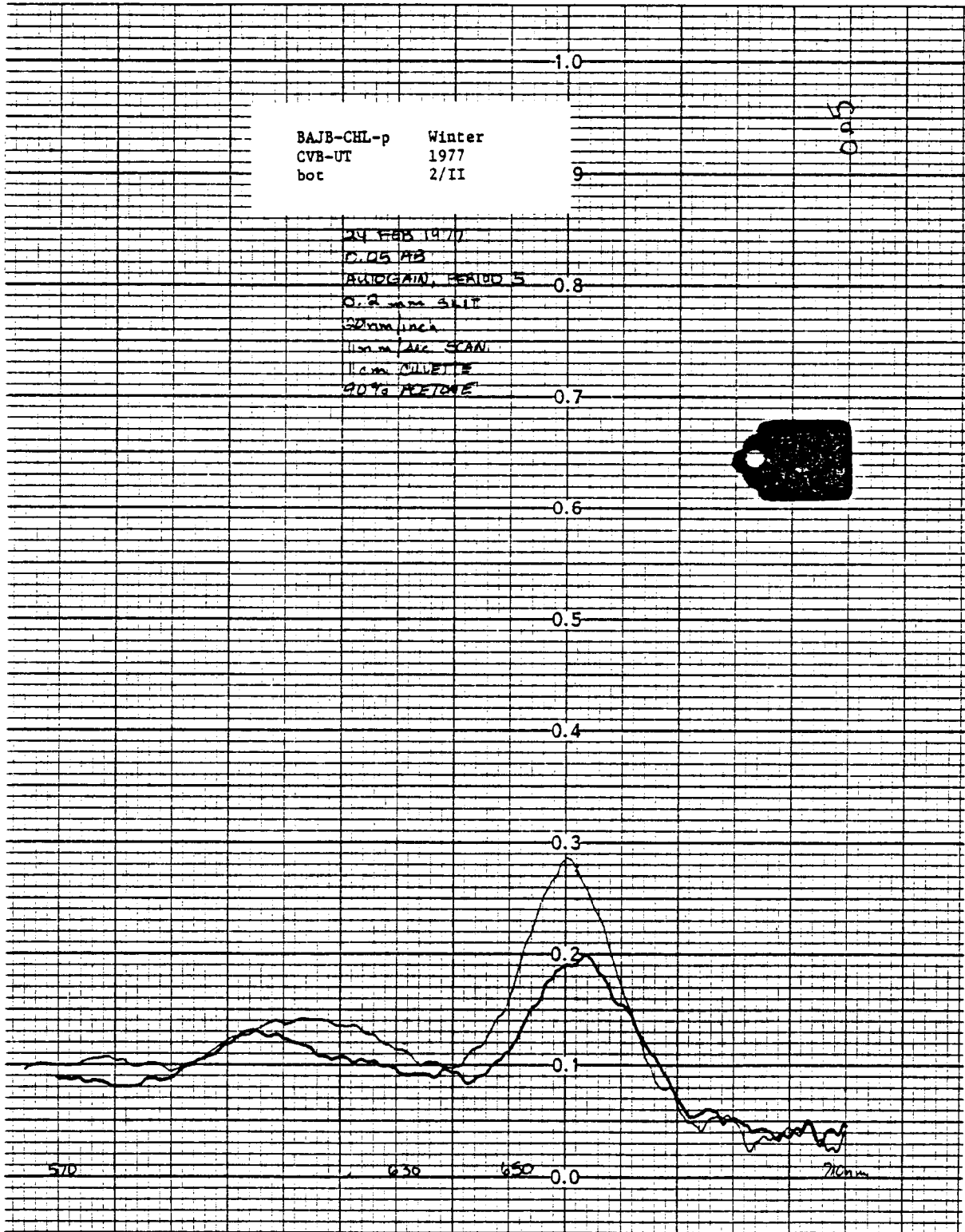
24 FEB 1977  
 0.05 AB  
 AUTO SCAN PERIOD 3.8  
 0.2mm SLIT  
 20mm/inch  
 1mm/sec SCAN  
 Low CHUETTE  
 90°/10 ACQ/DUE 0.7

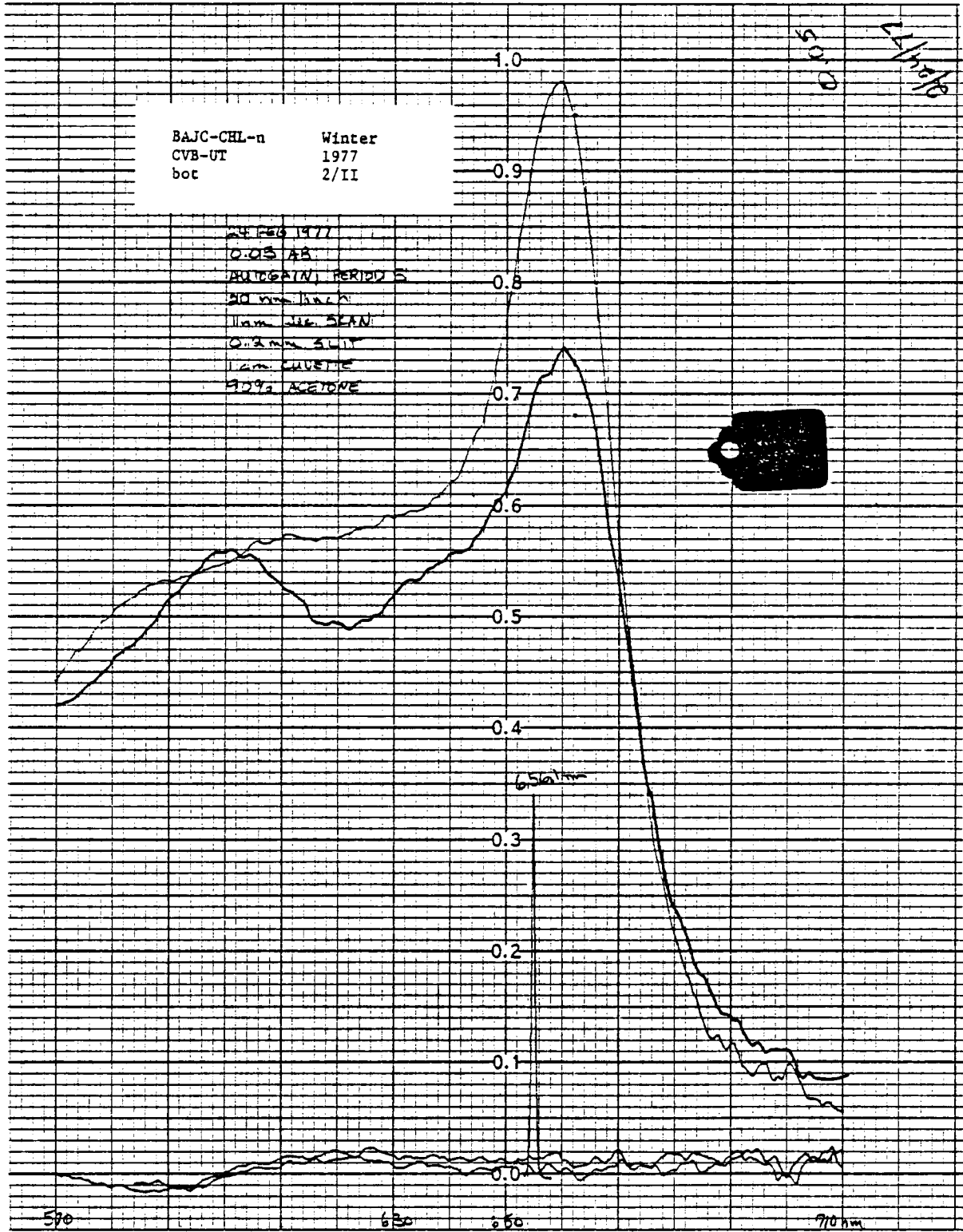


BAJB-CHL-p Winter  
 CVB-UT 1977  
 bot 2/II

500

24 FEB 1977  
 0.05 MS  
 AMPLIFIER PERIOD 5  
 0.2 cm slit  
 30mm lens  
 11mm ALU SCAN  
 1cm CUVETTE  
 90% ACETONE



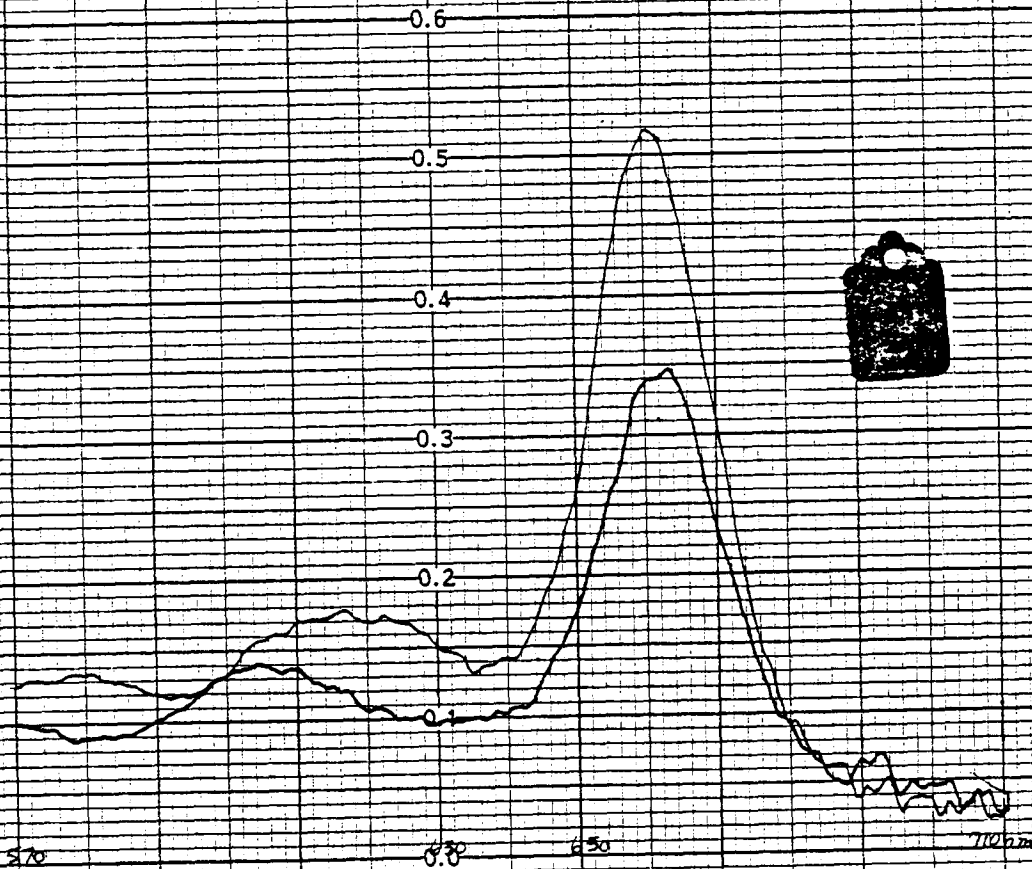


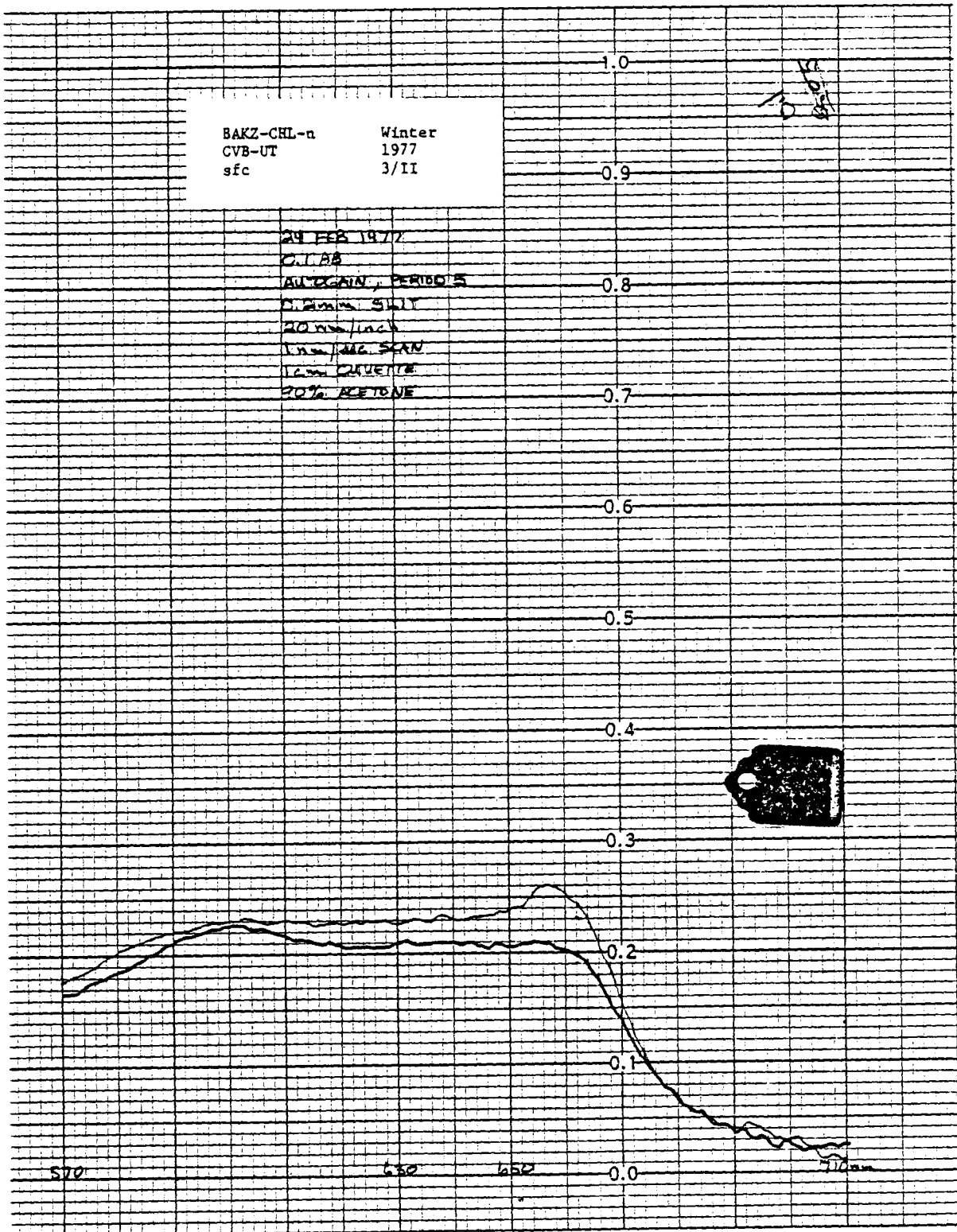


BAKY-CHL-p Winter  
 CVB-UT 1977  
 sfc 3/II

15 FEB 77  
 0.05 AB  
 AGAIN, PERIOD 8  
 0.3 um 5ul  
 ADAM LINDA  
 1 um 100 SCAN  
 1 um CUVETTE  
 90% ACETONE 0.7

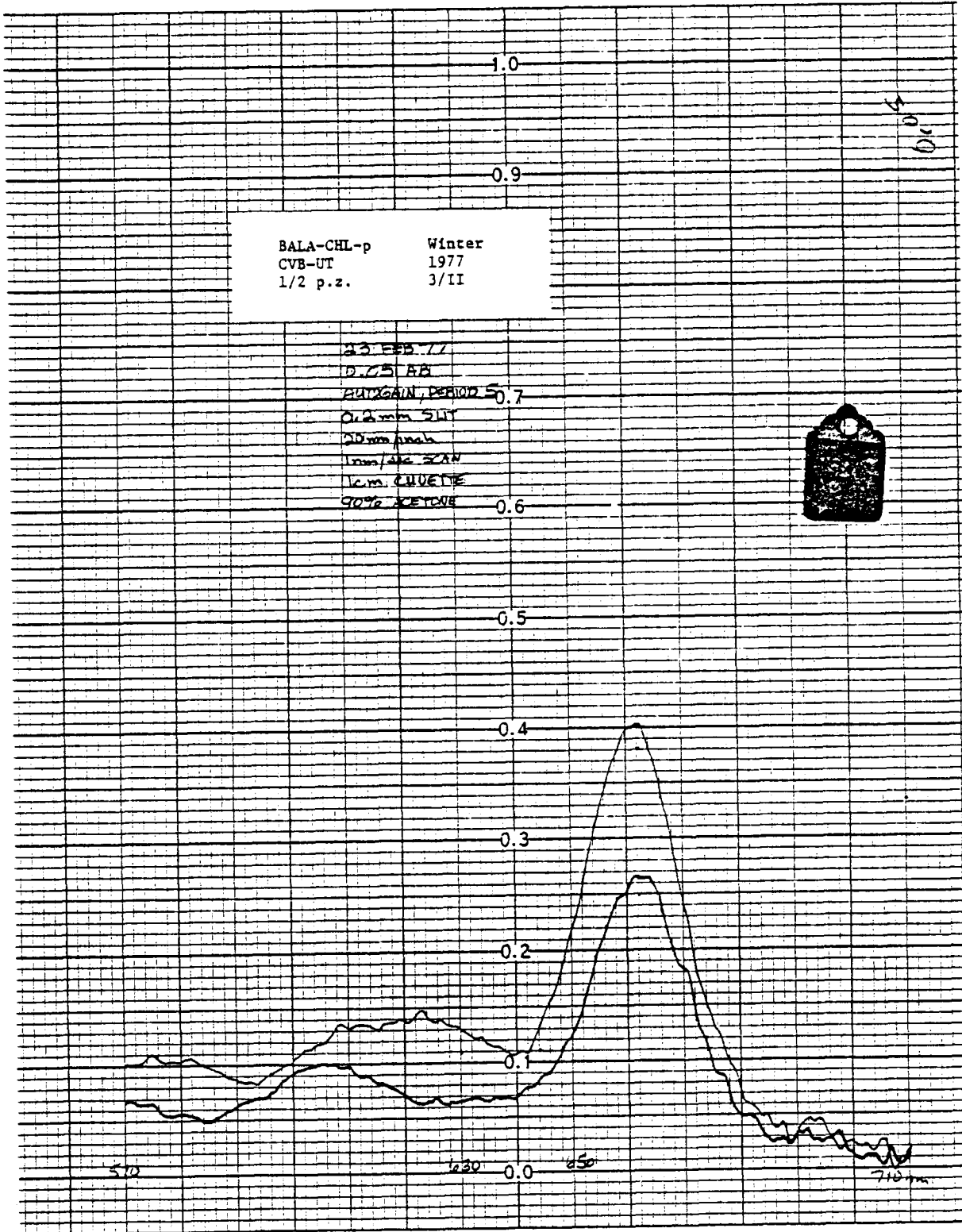
SFC

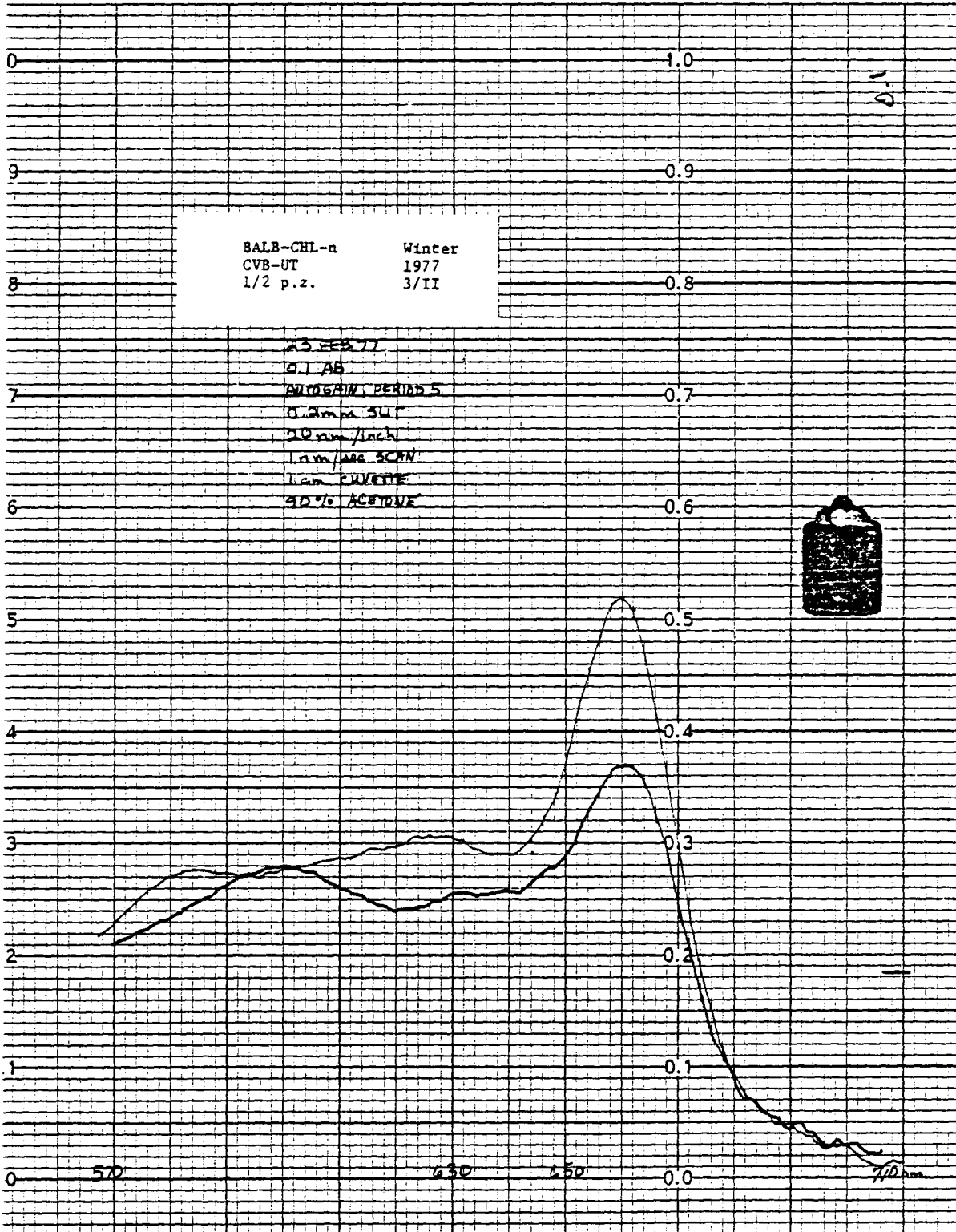


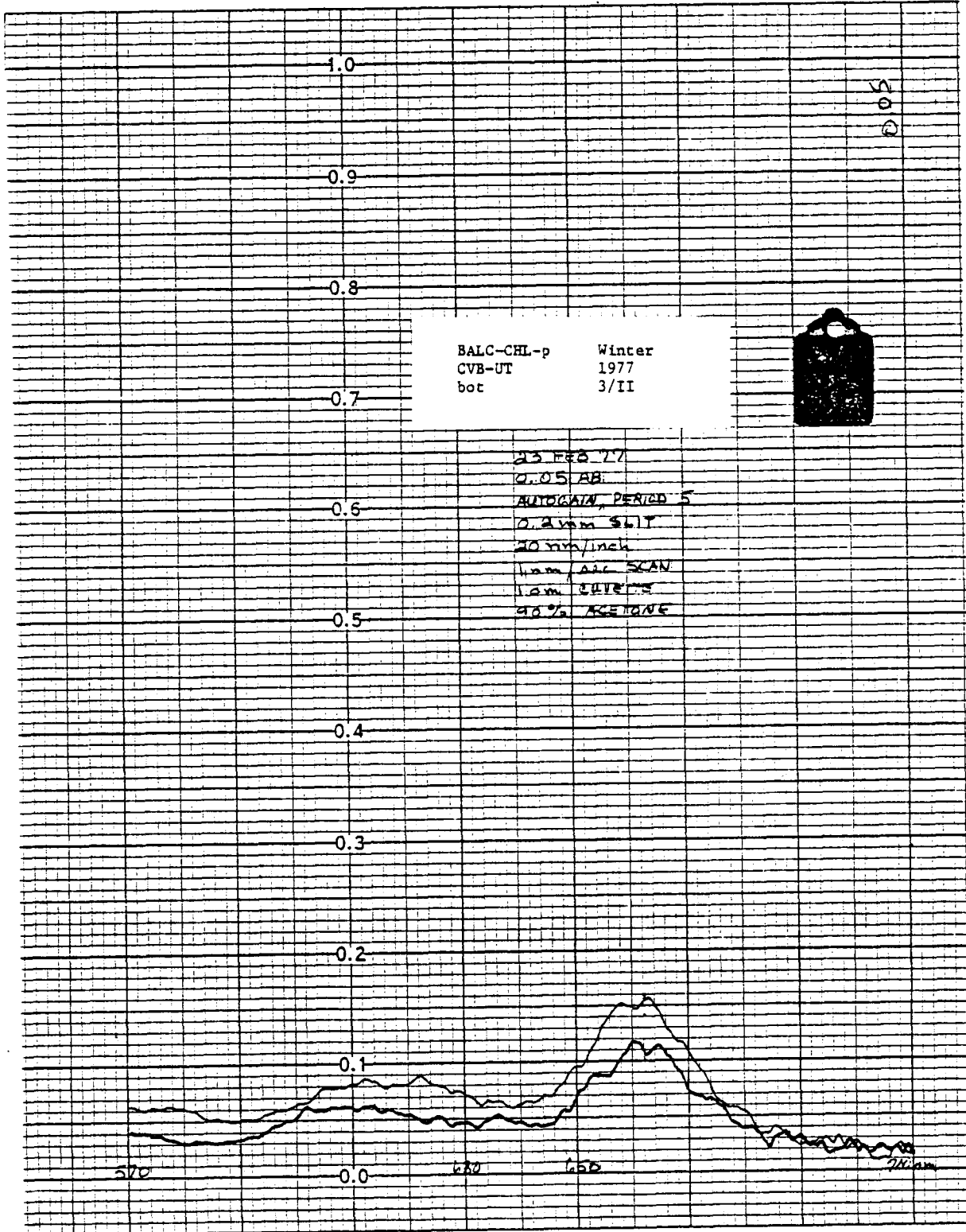


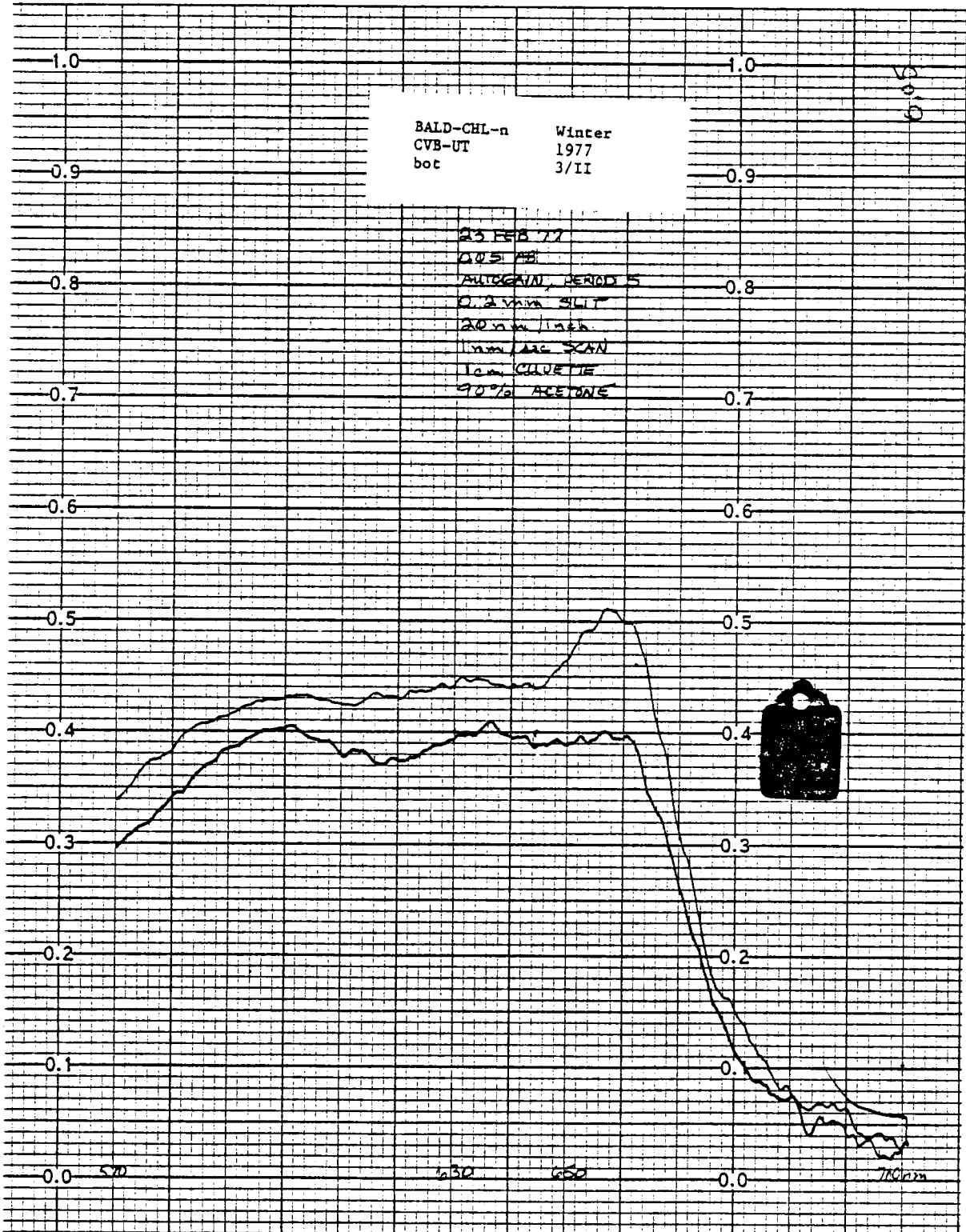
BALA-CHL-p Winter  
CVB-UT 1977  
1/2 p.z. 3/II

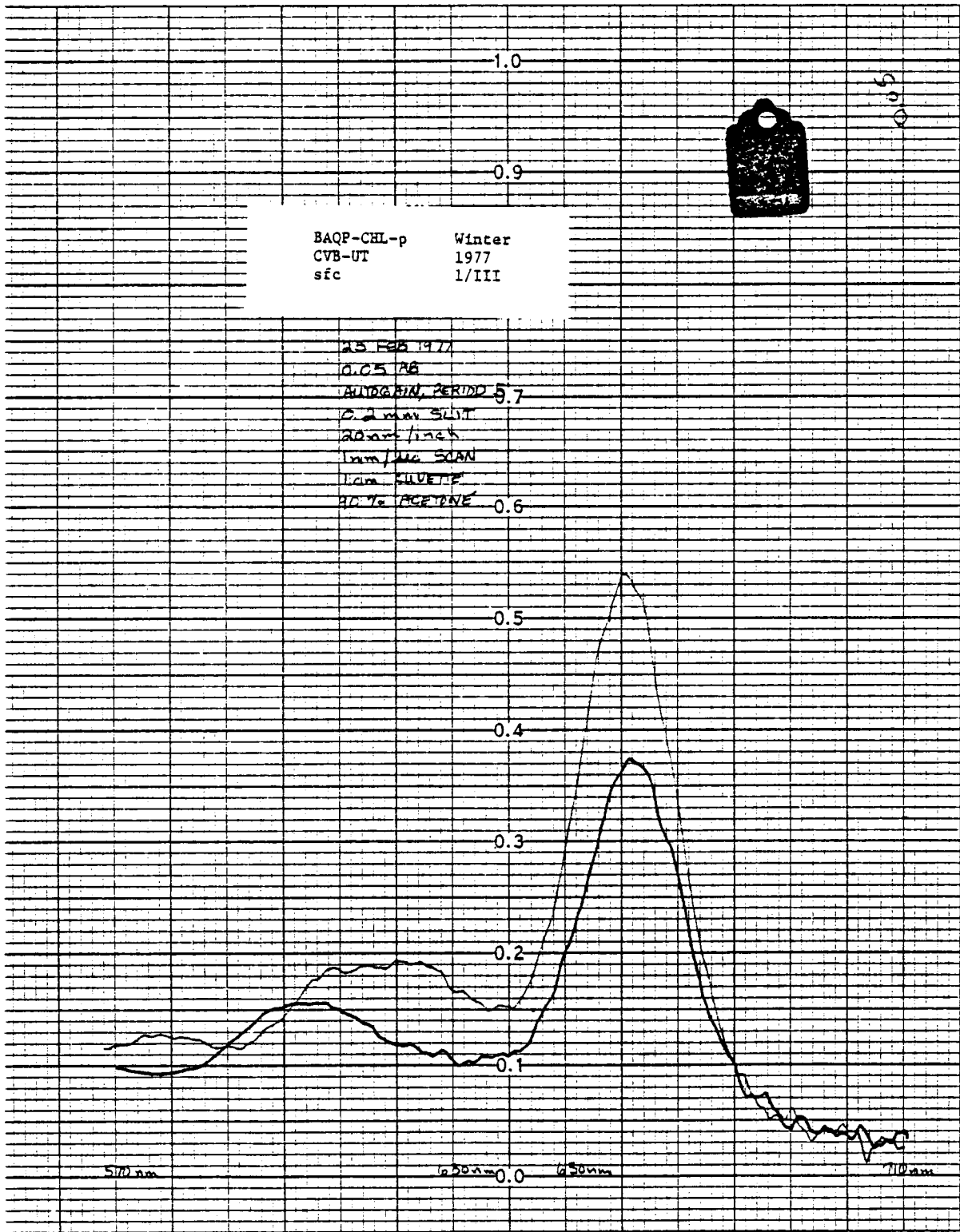
23 FEB 77  
D. 75 AB  
GAIN, PERIOD 5.7  
0.2 mm slit  
20 mm path  
1 mm/40 SCAN  
1 cm. CHUETTE  
9072 XEYU8

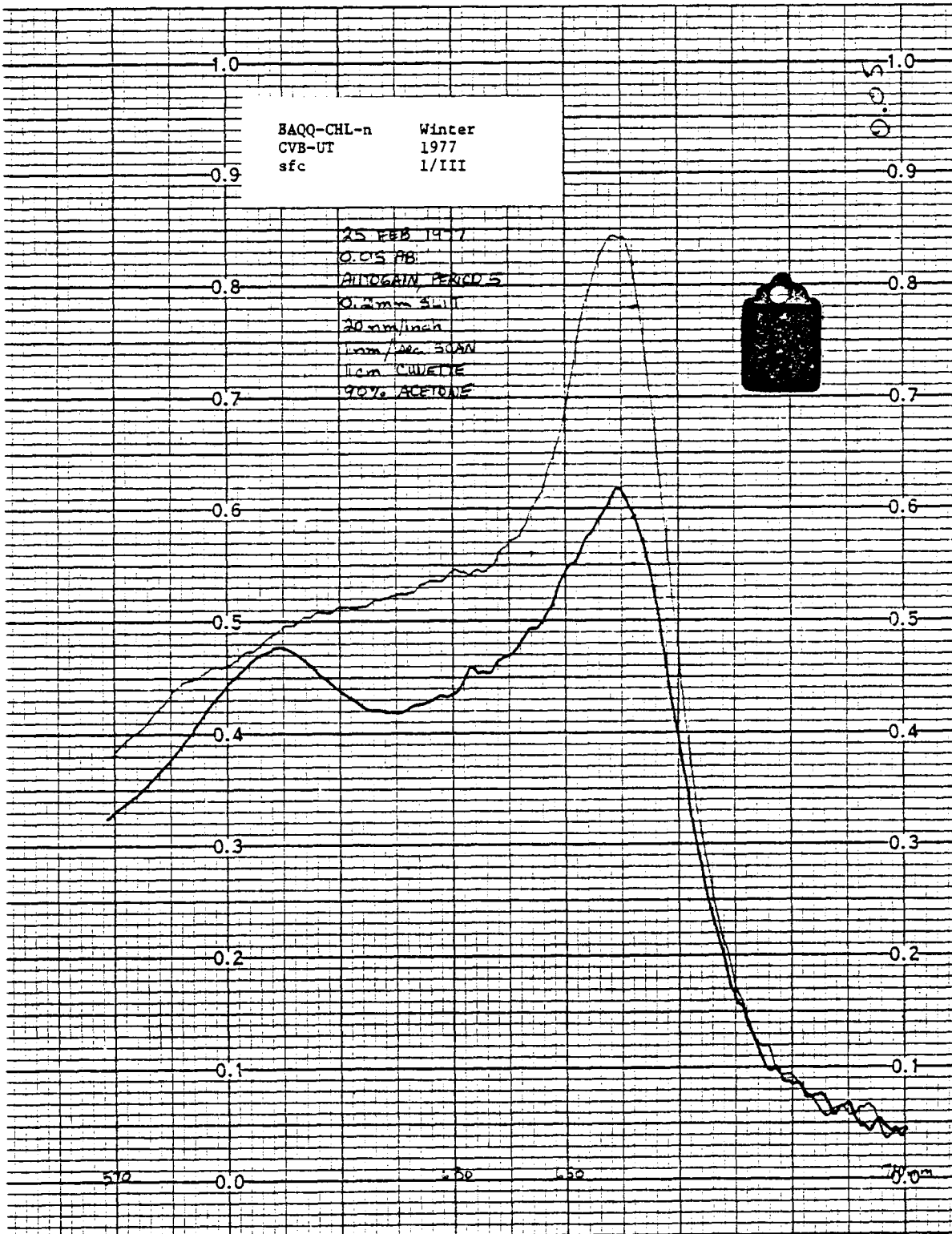




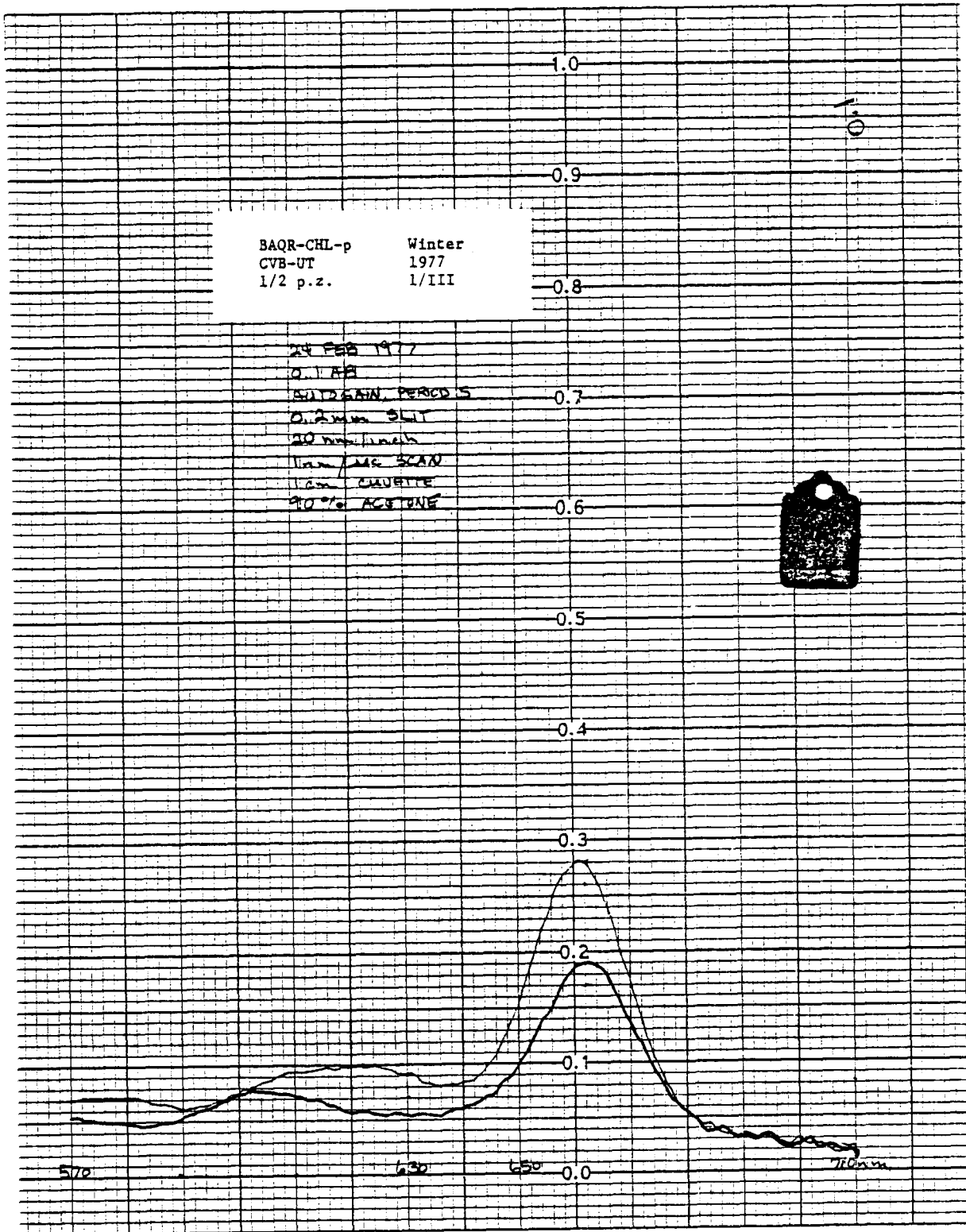


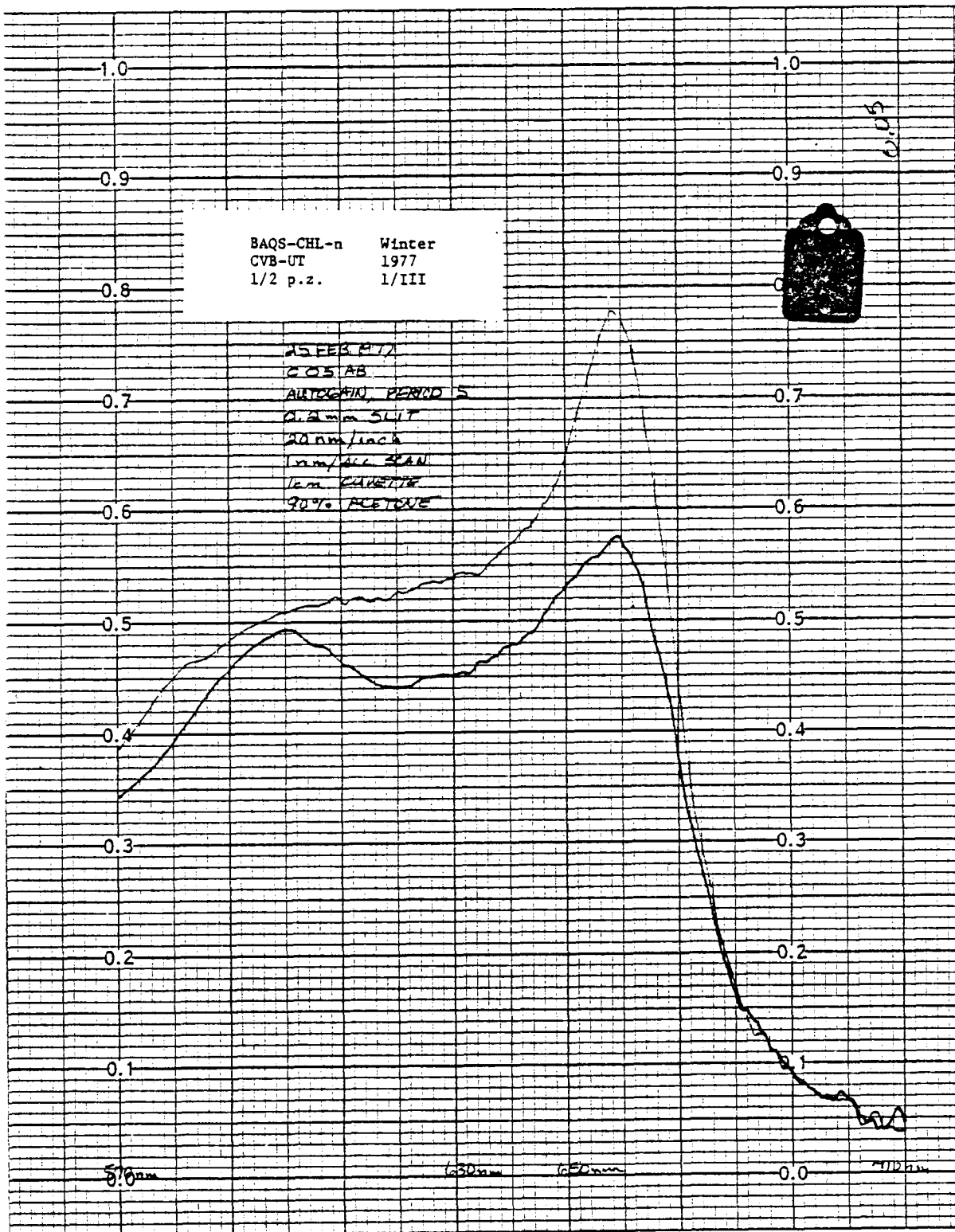


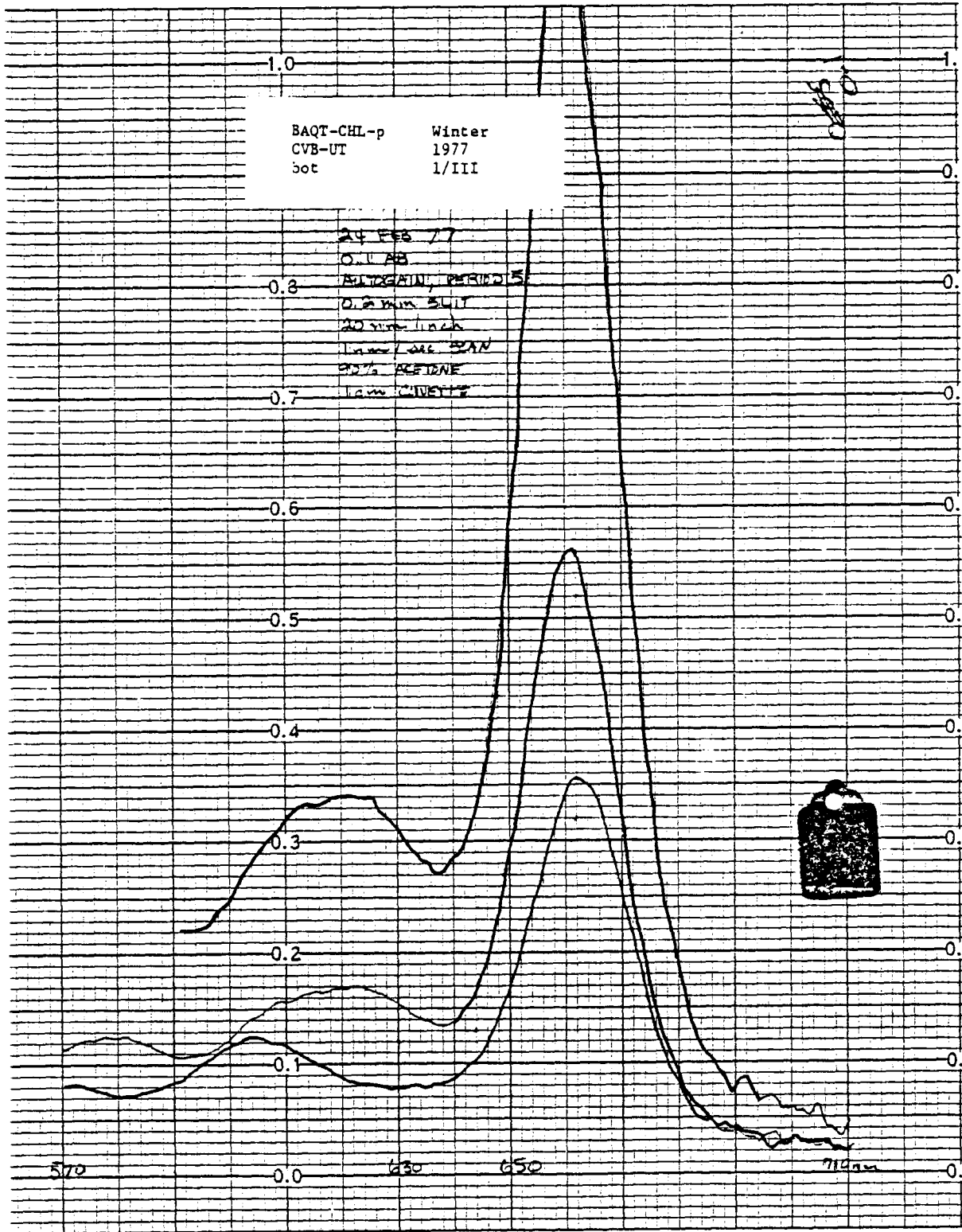


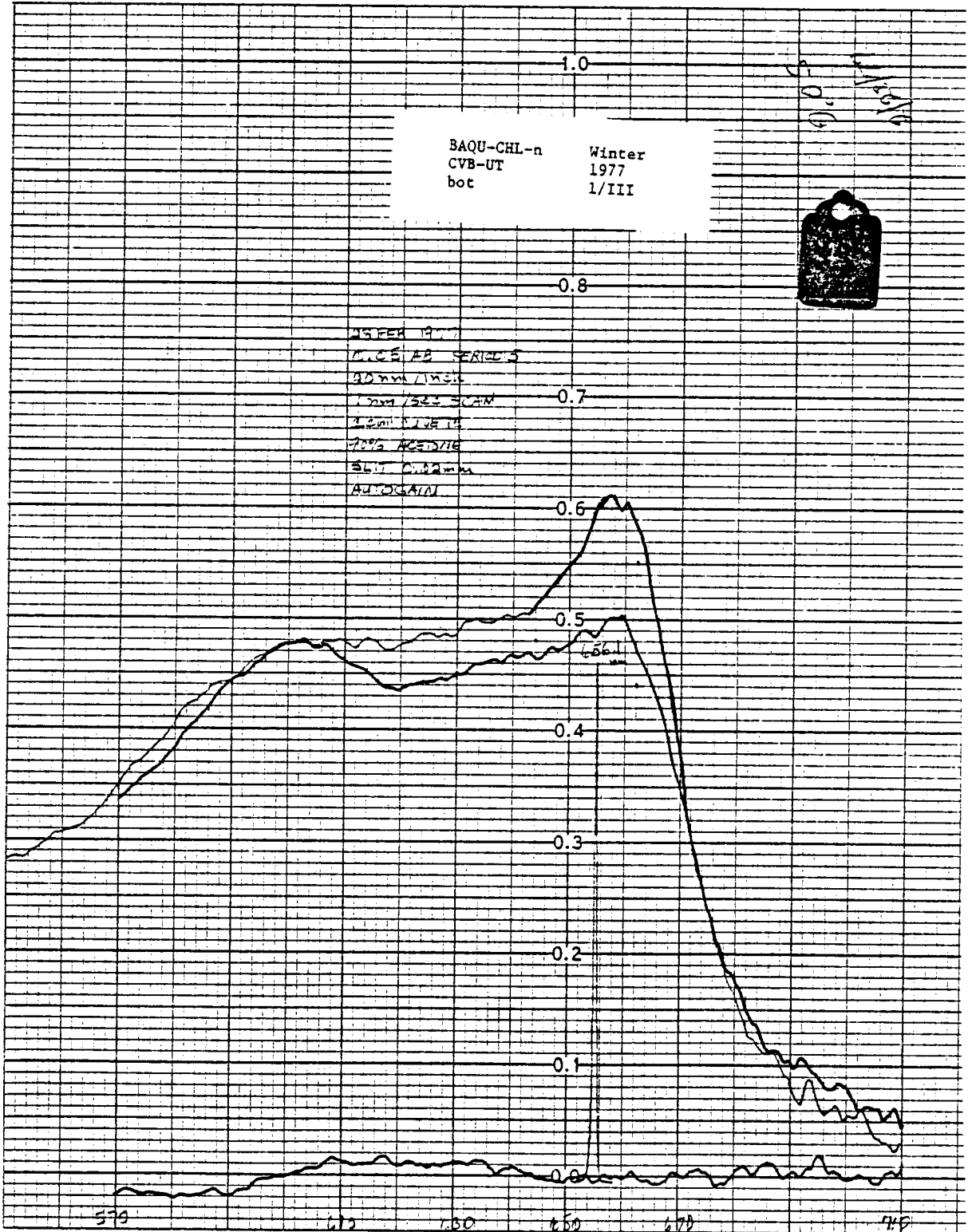


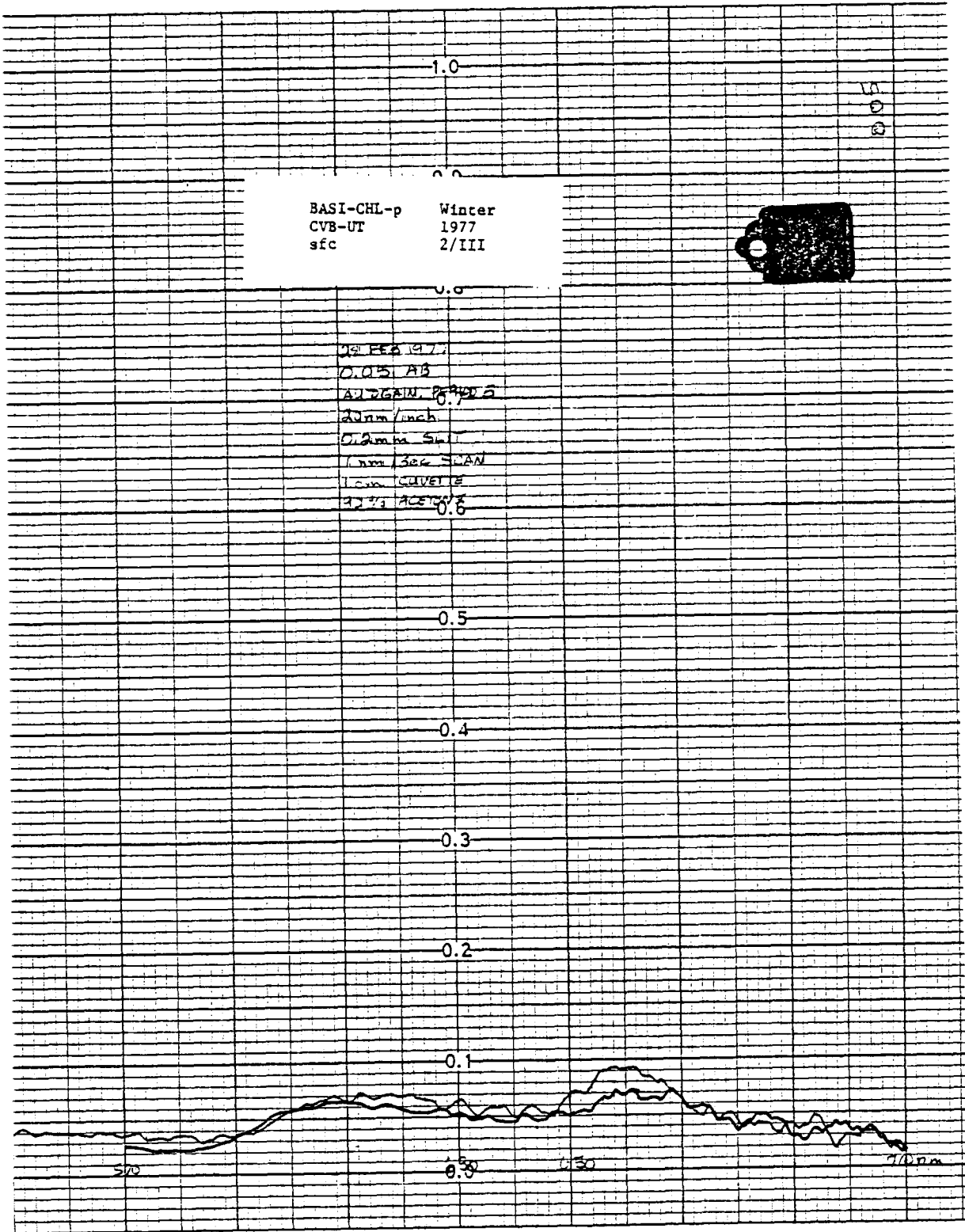


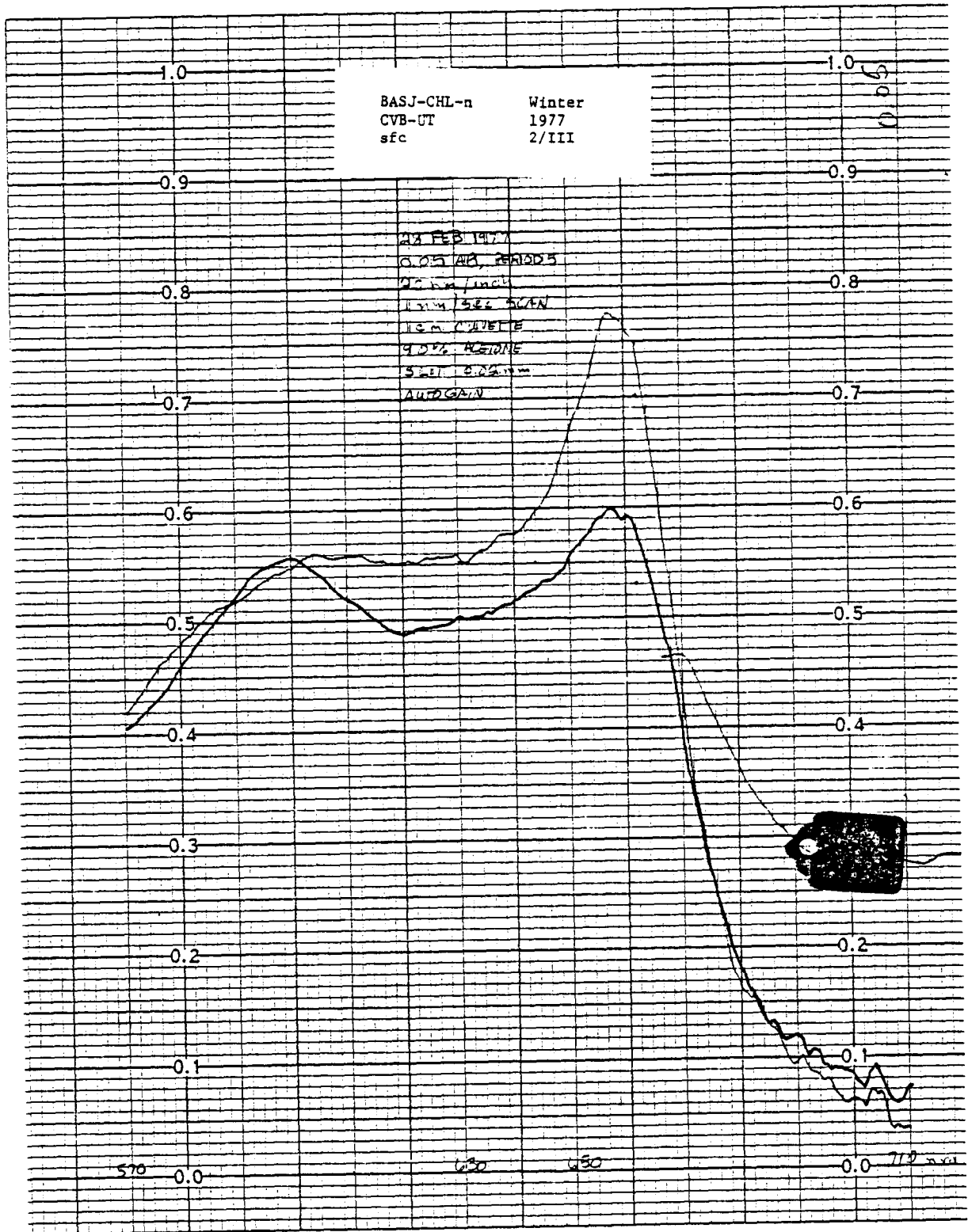


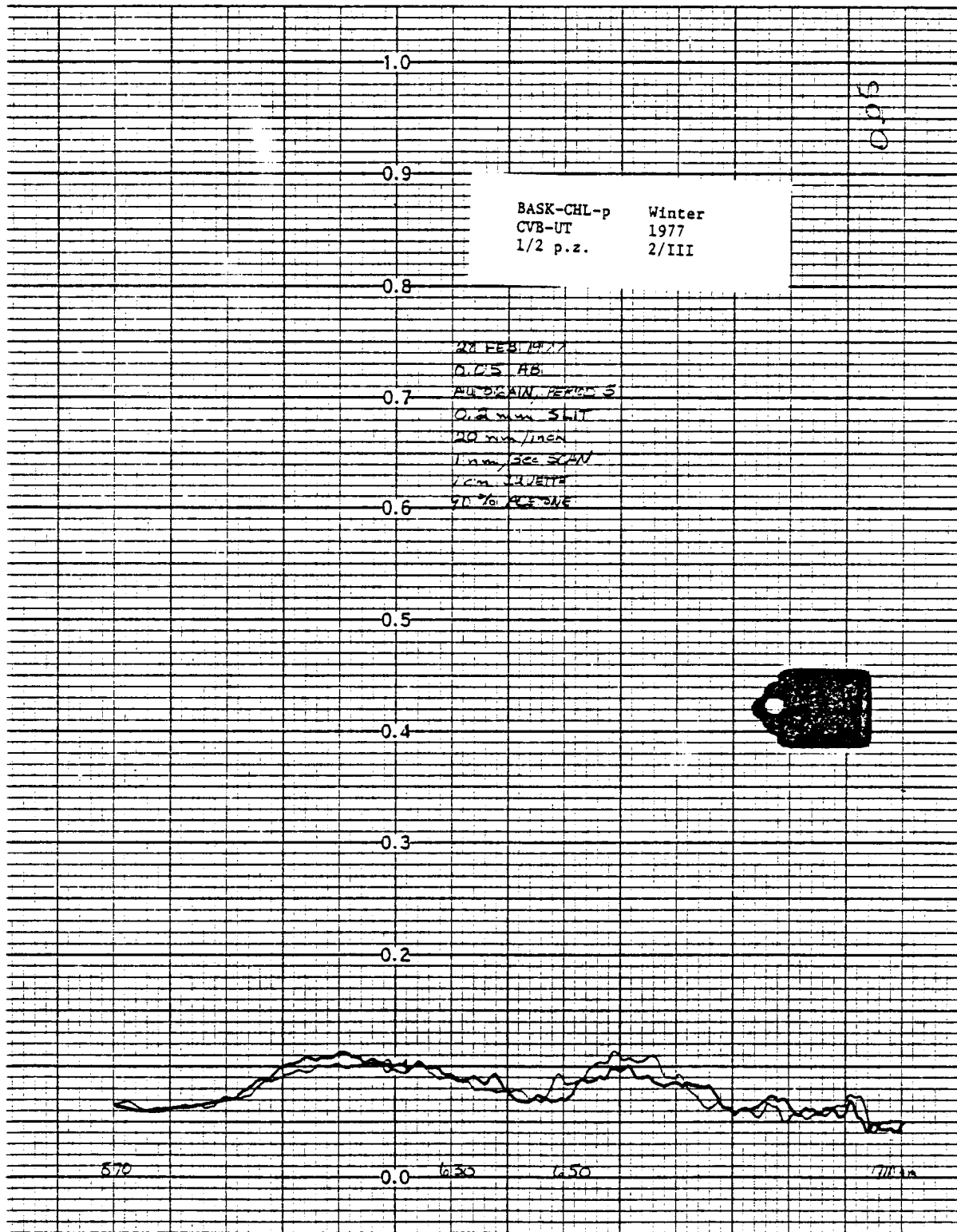


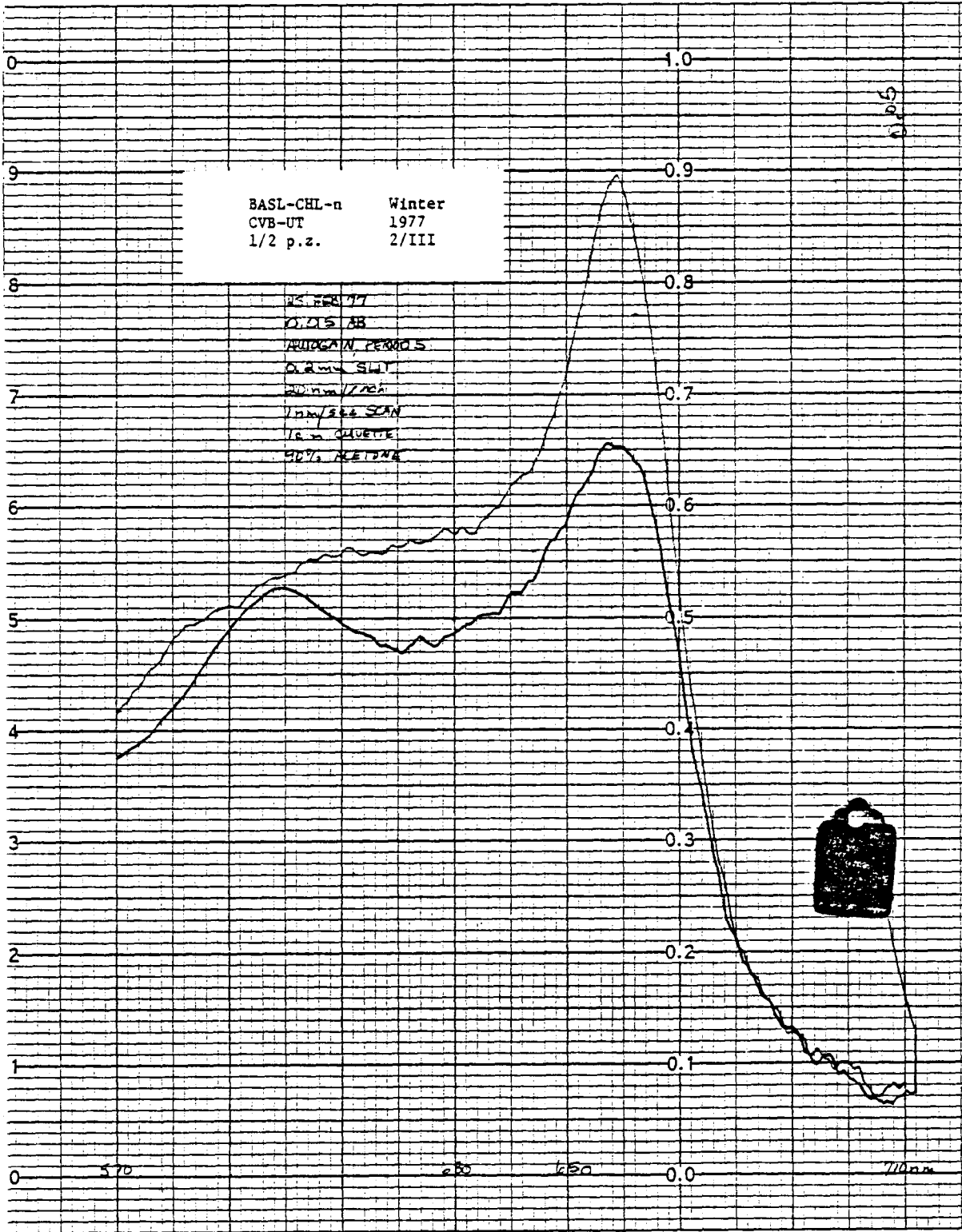












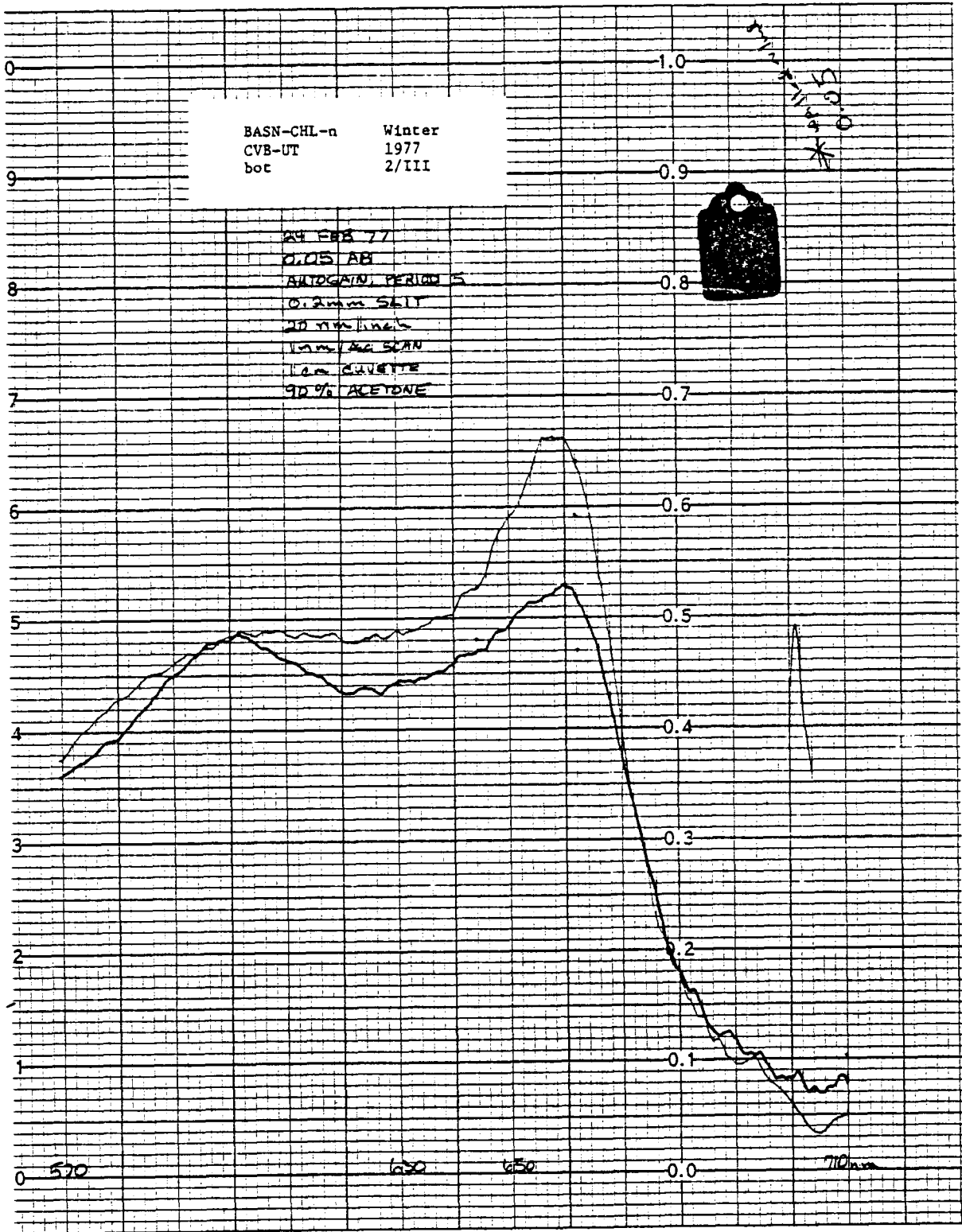


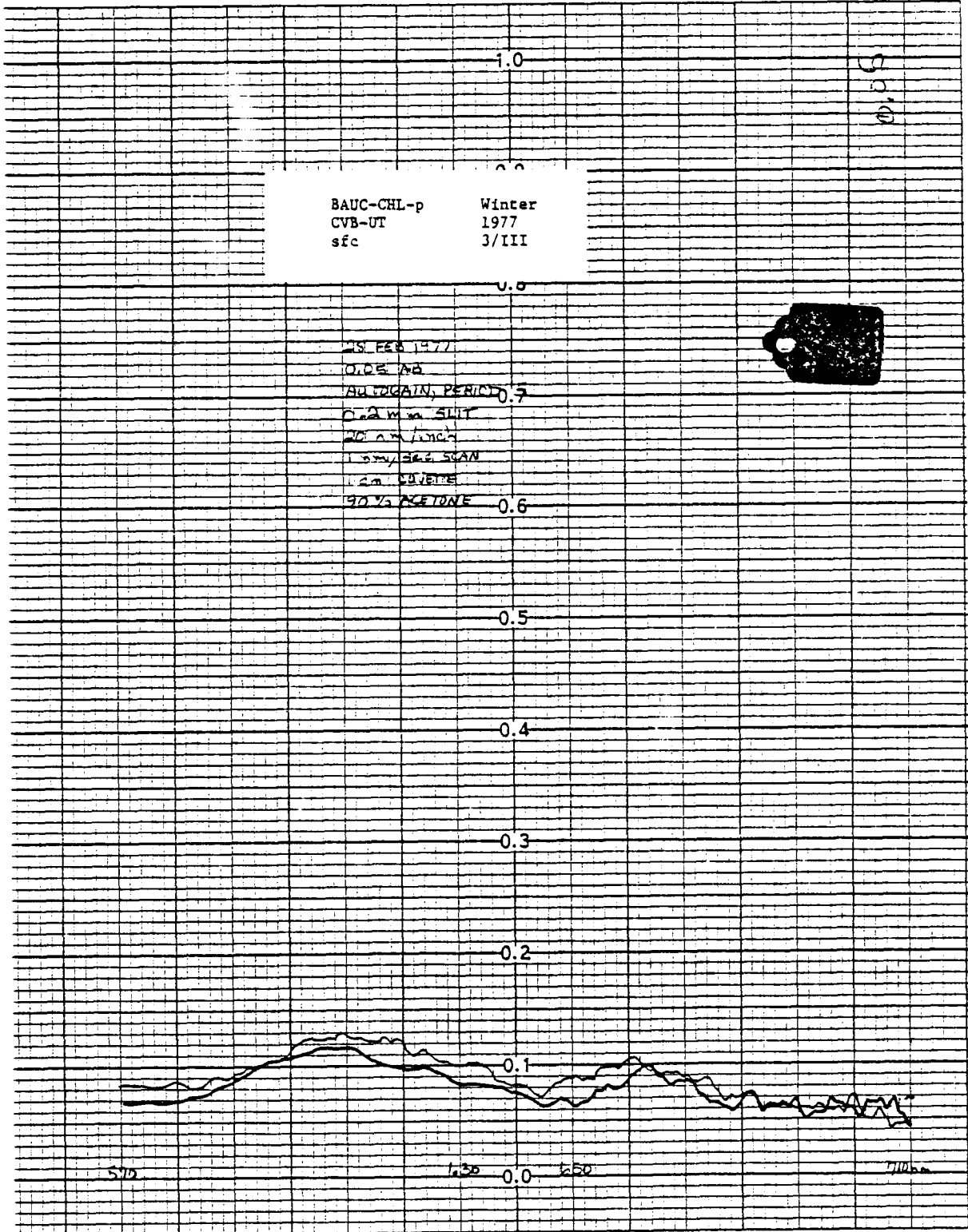
BASM-CHL-p Winter  
CVB-UT 1977  
bot 2/III

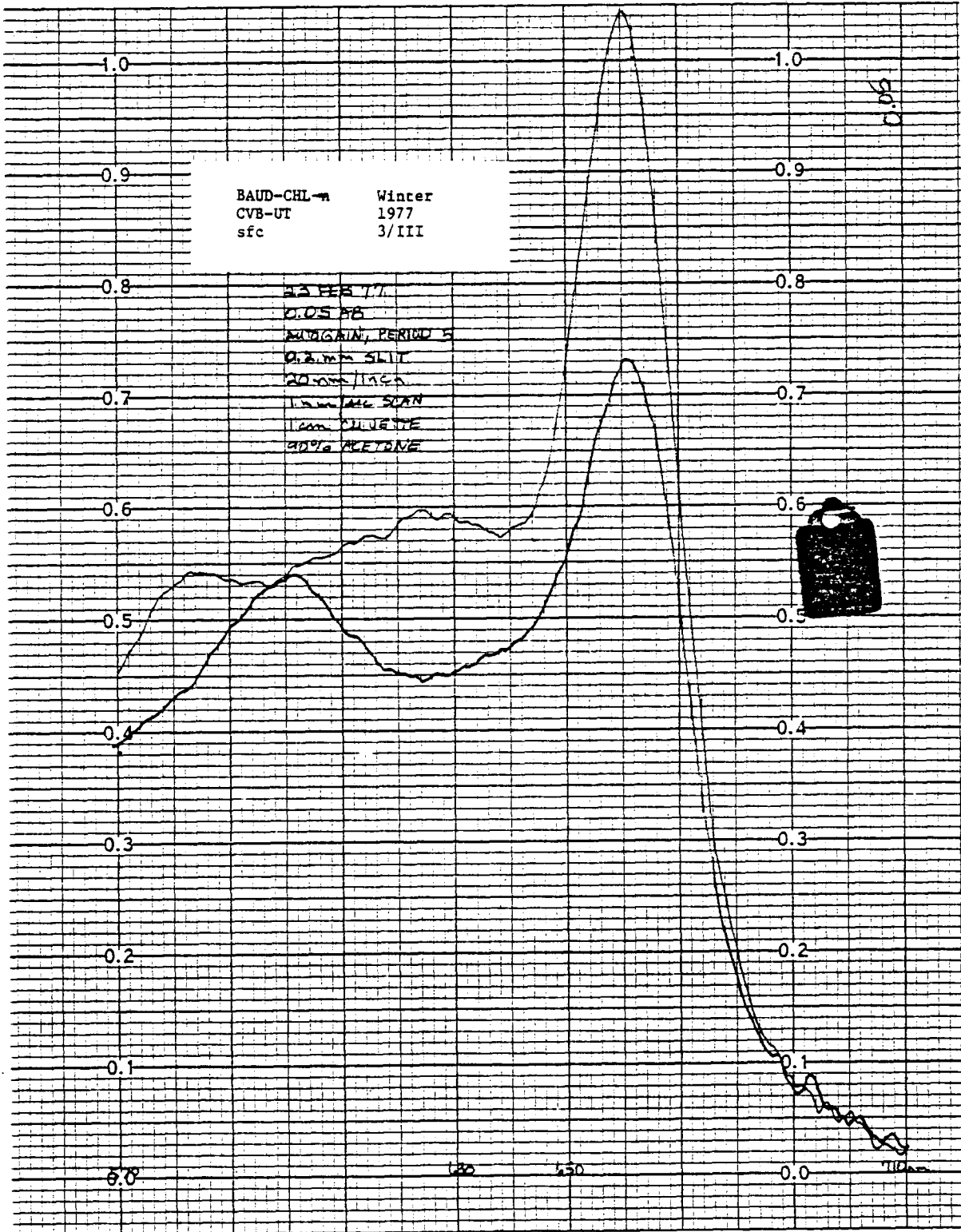
24 FEB 77 0.8  
0.05 AB  
AUTOGAIN, PERIOD 5  
0.8 mm SCIT  
20 mm/Inch  
1mm/sec 0.3 AN  
1cm CURVITE  
90% ACETONE

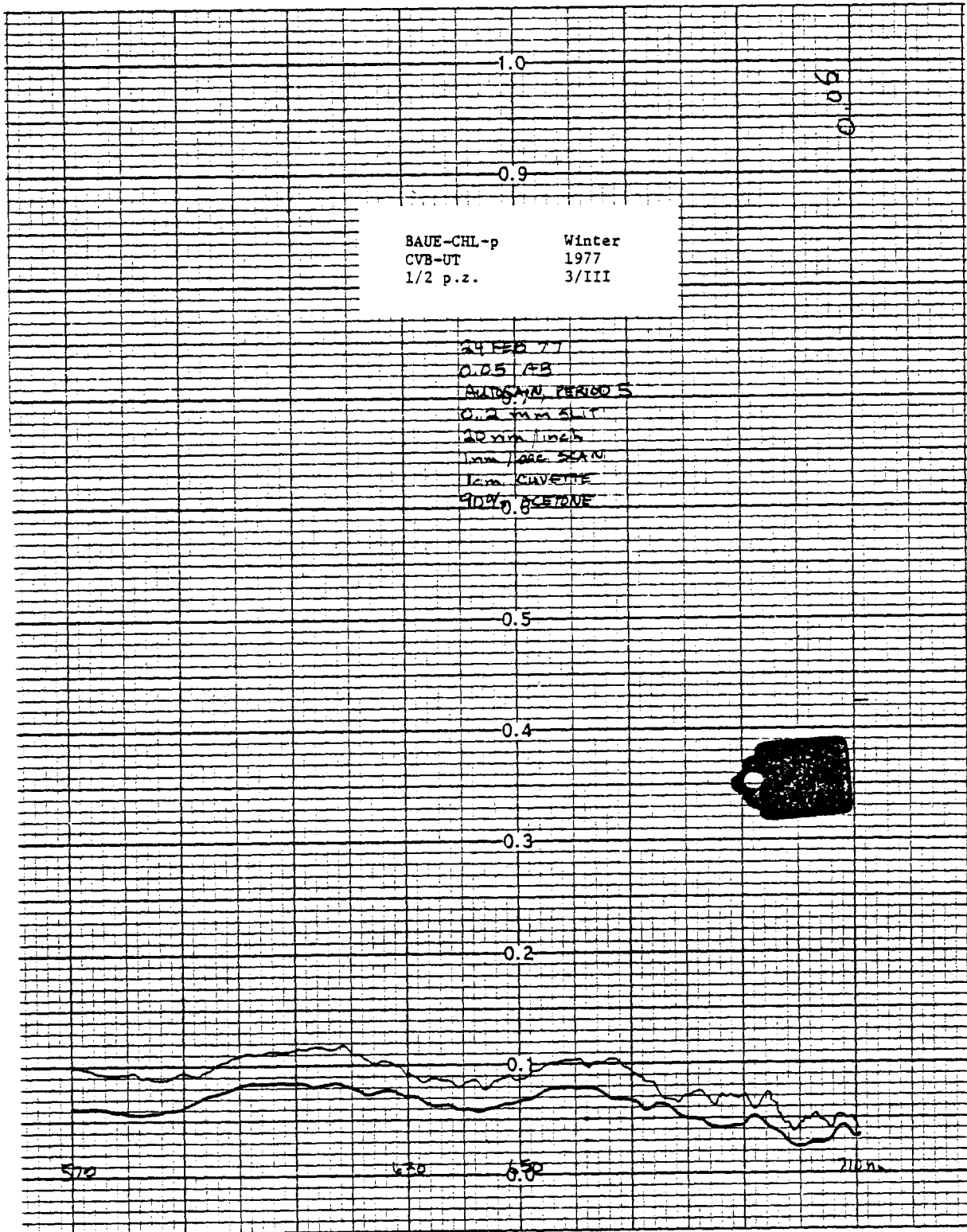
0.05

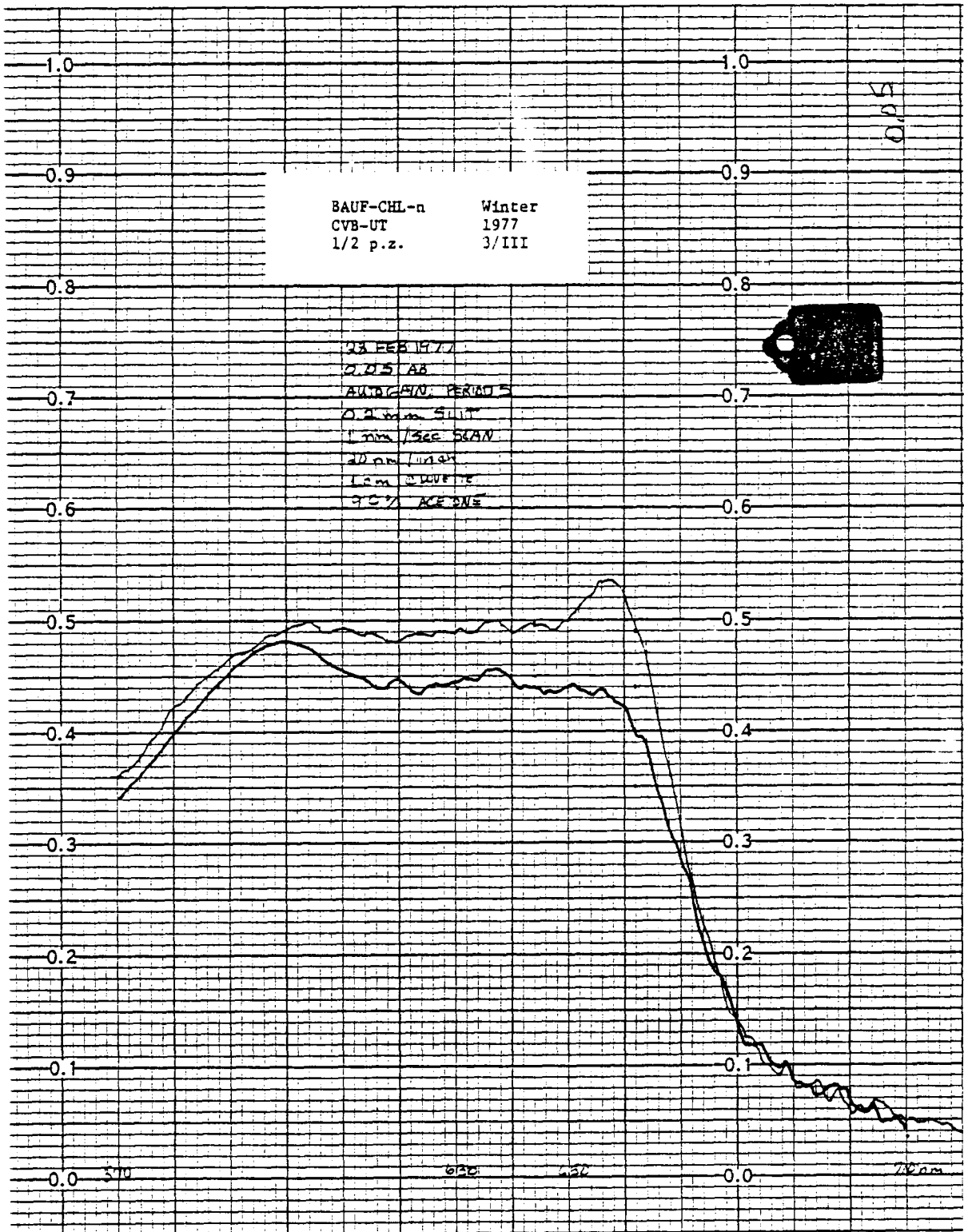


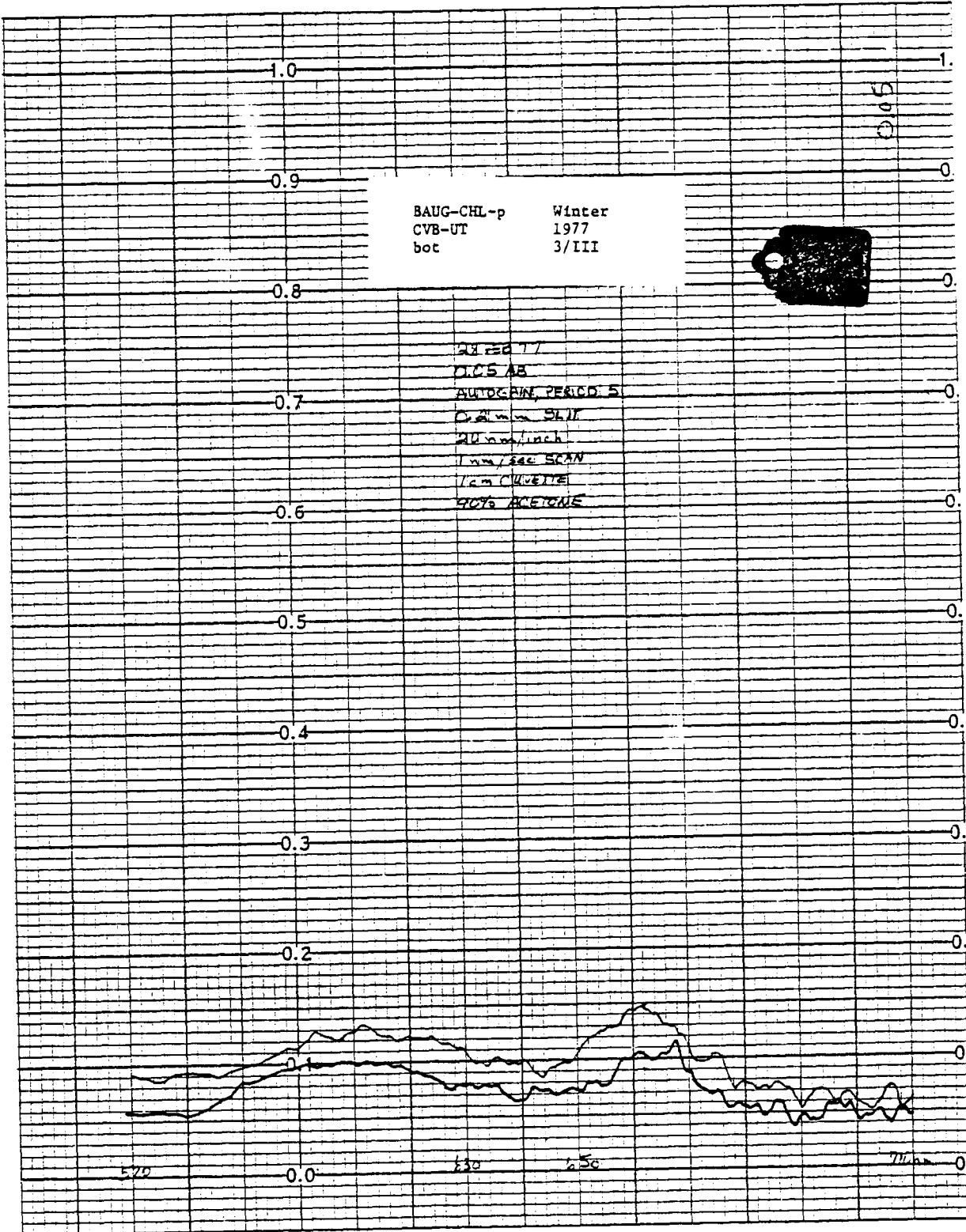


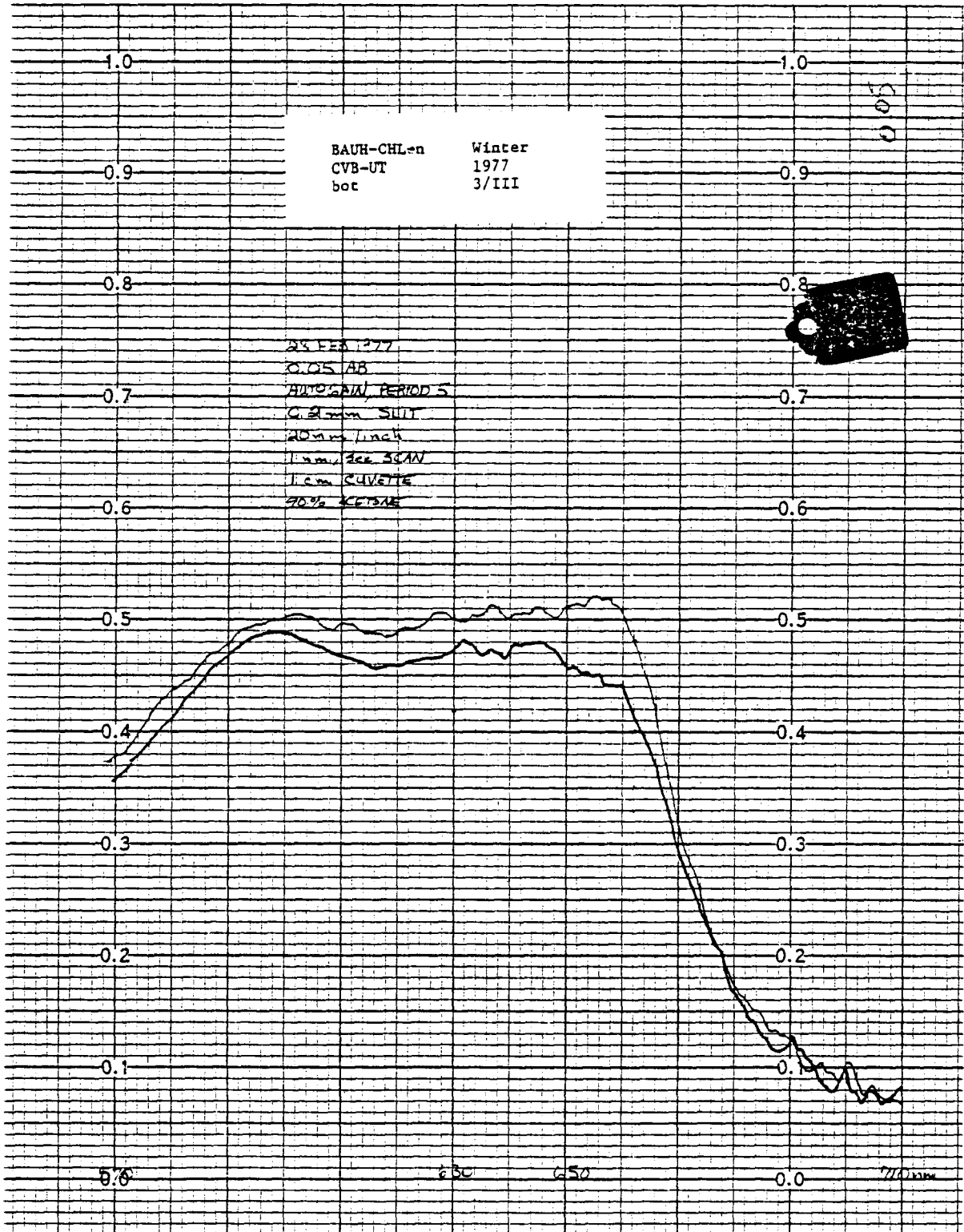










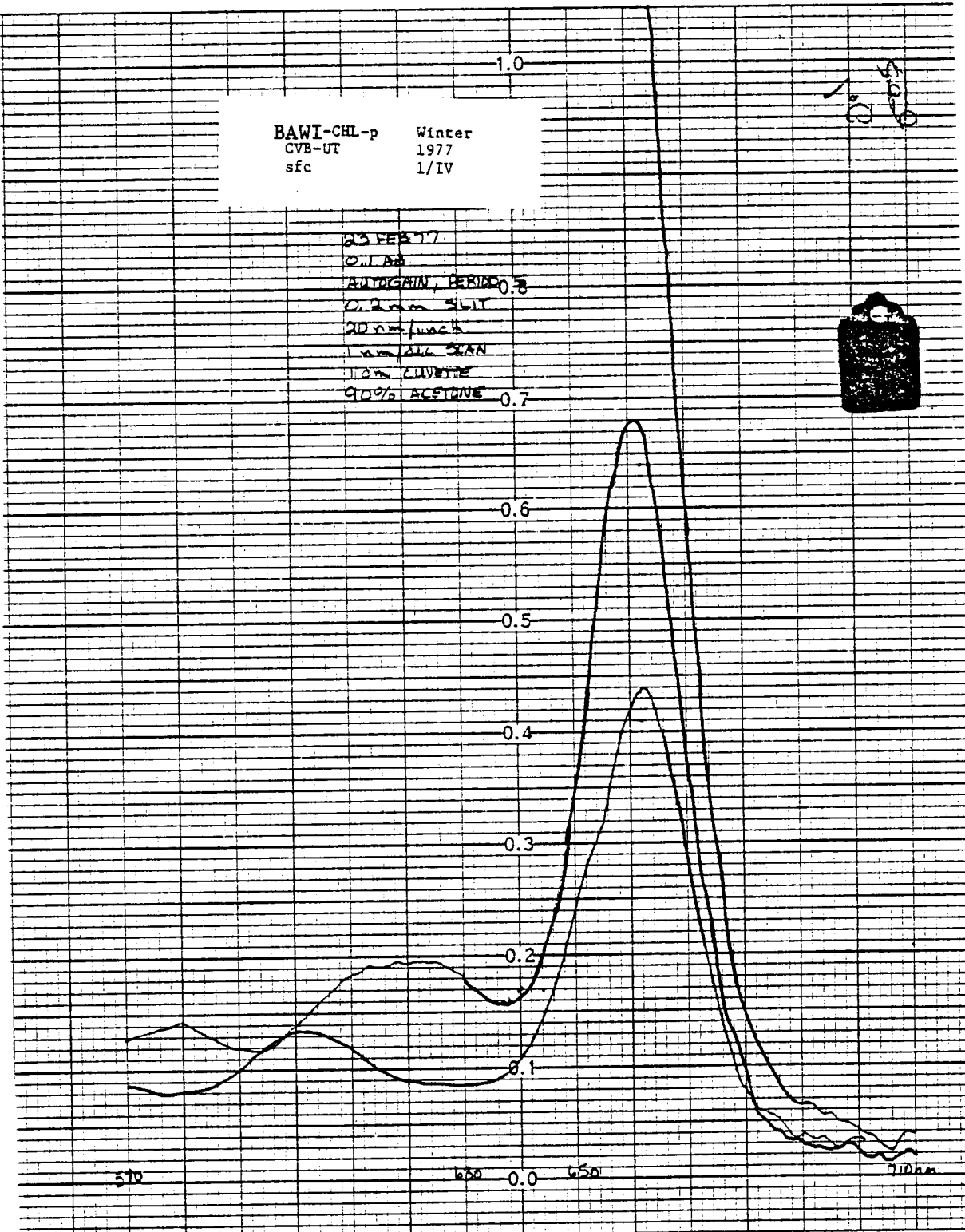


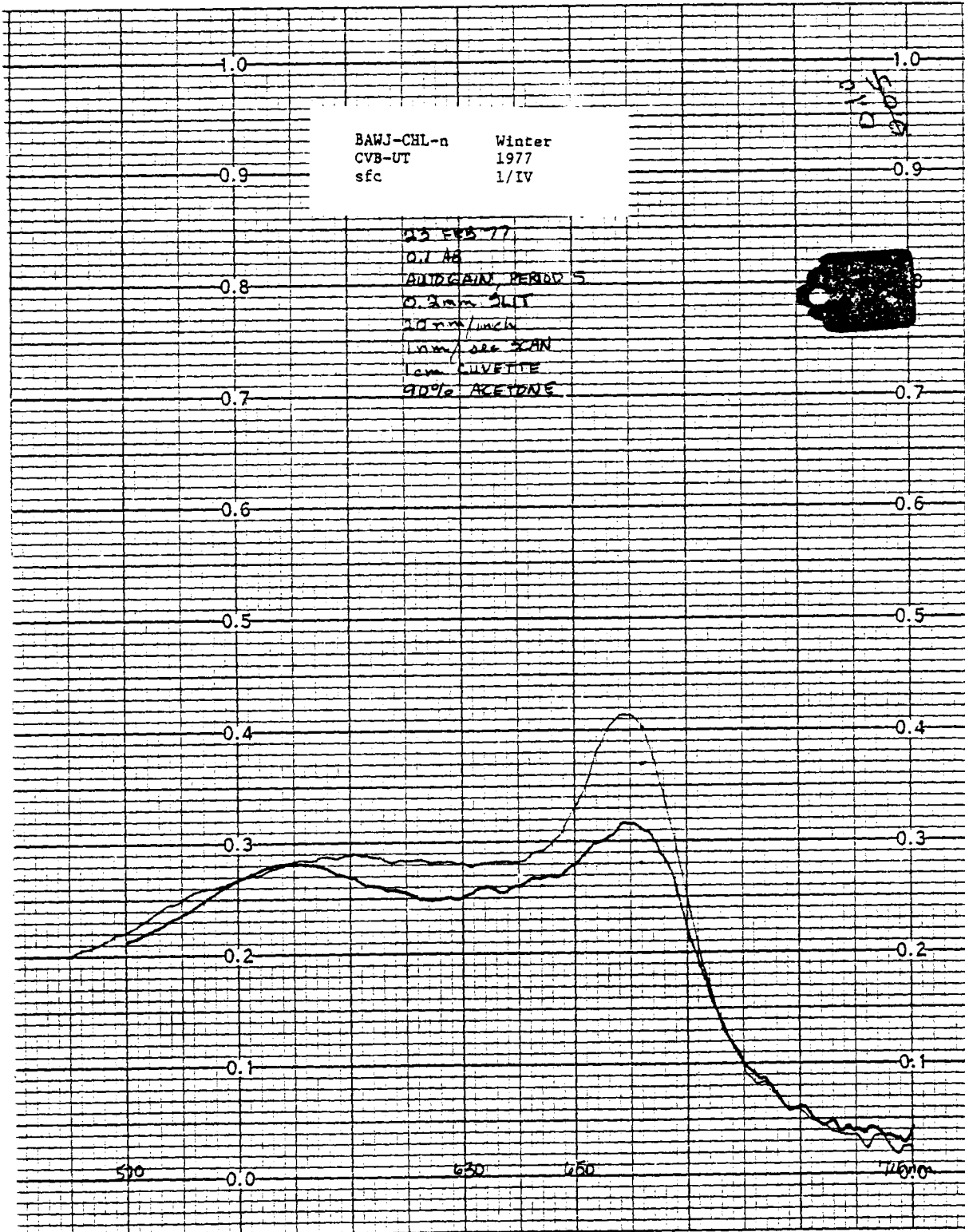


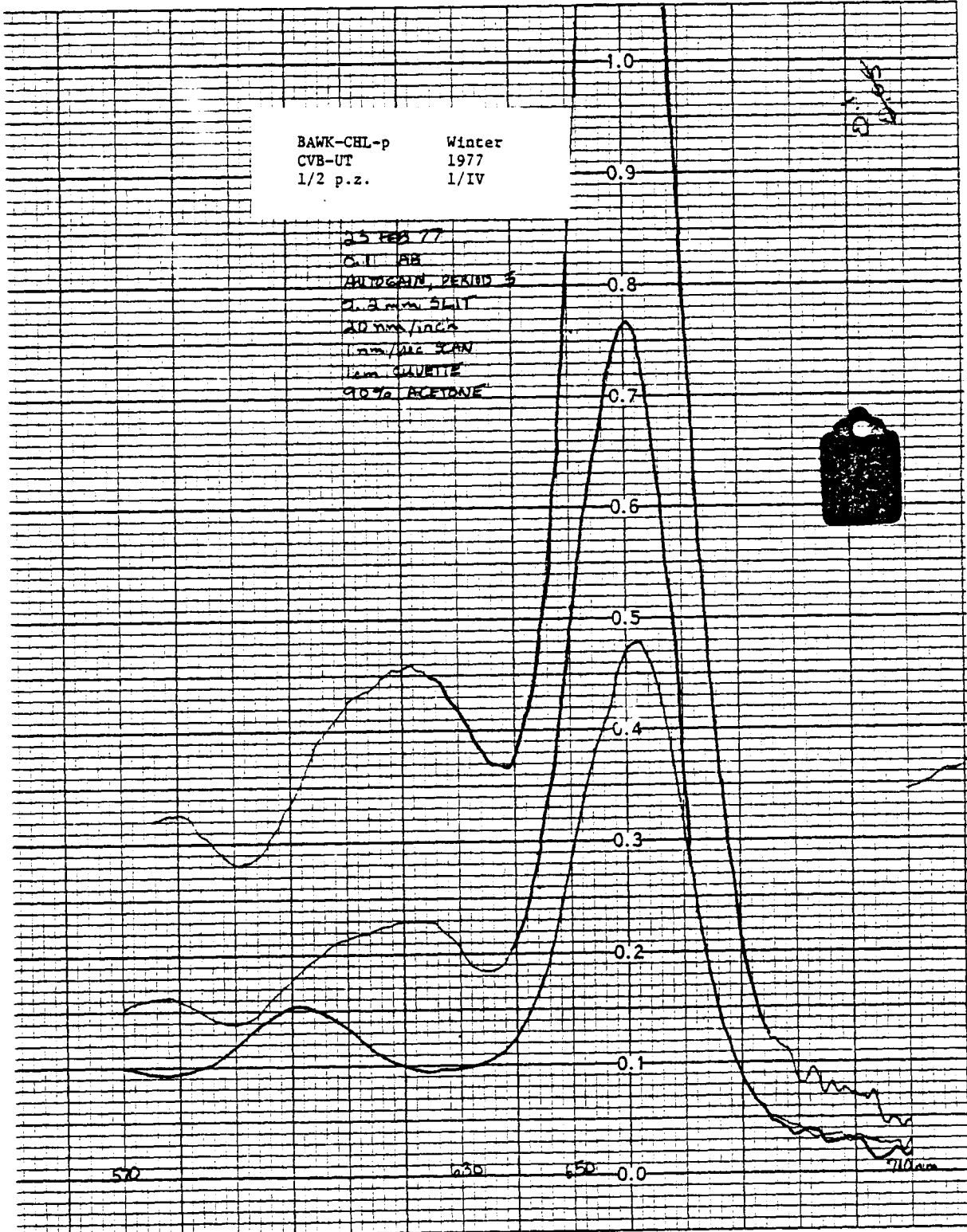
BAWI-CHL-p      Winter  
 CVB-UT            1977  
 sfc                 1/IV

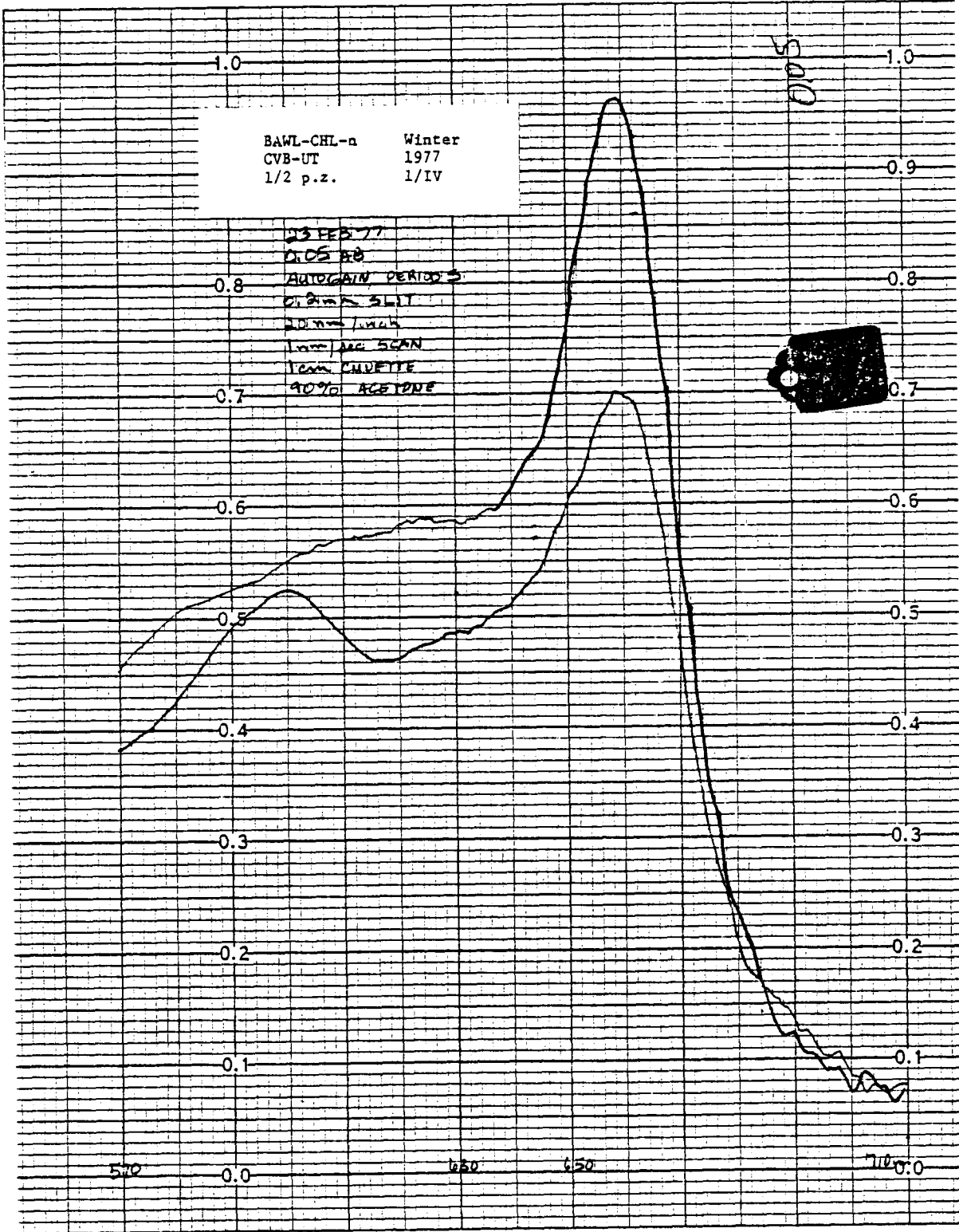
1-2-77

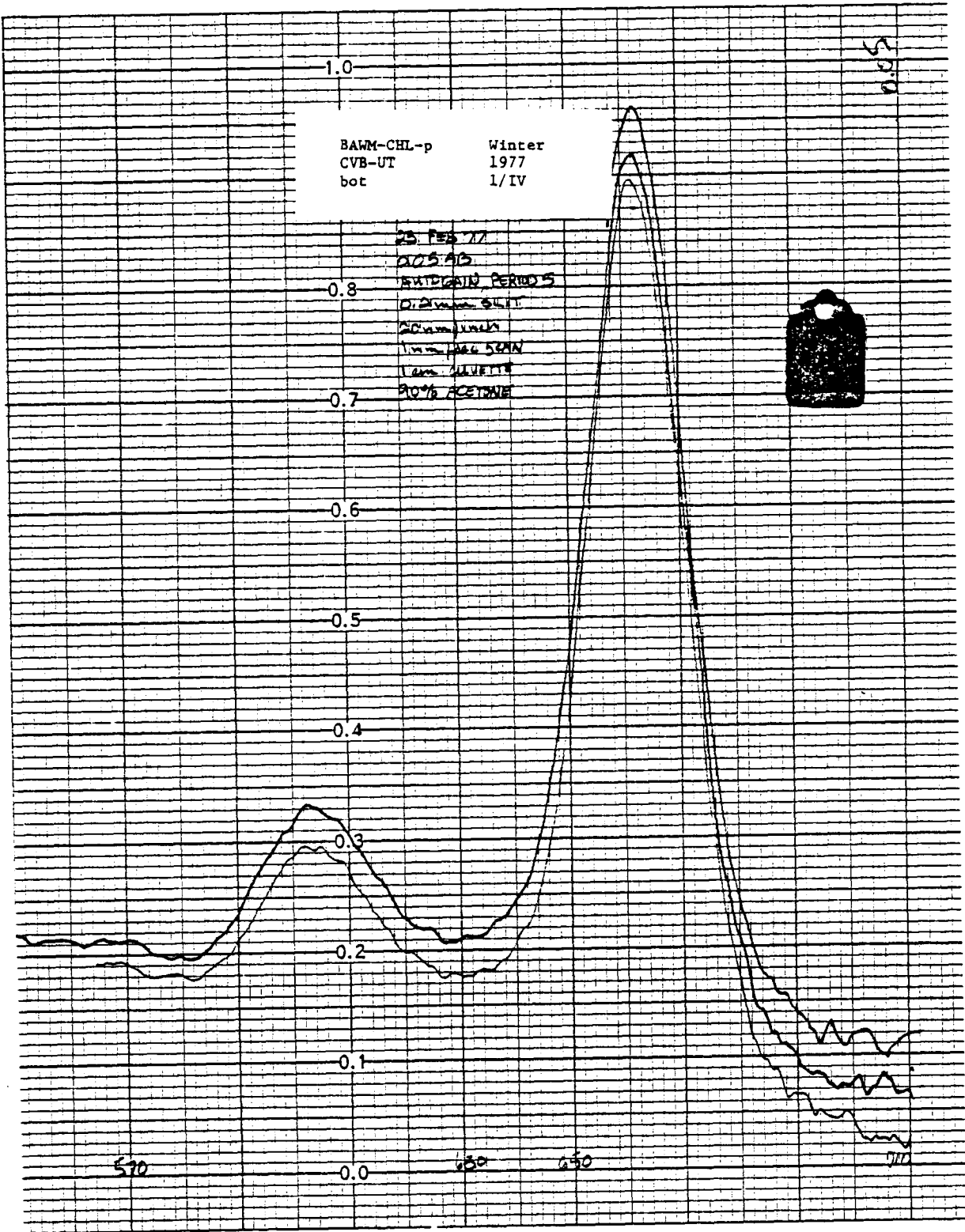
23 FEB 77  
 C.J. AB  
 AUTO GAIN, PERIOD 0.8  
 0.2 cm SLIT  
 20 mm path  
 1 mm CELL SCAN  
 1 cm CUVETTE  
 90% ACETONE 0.7

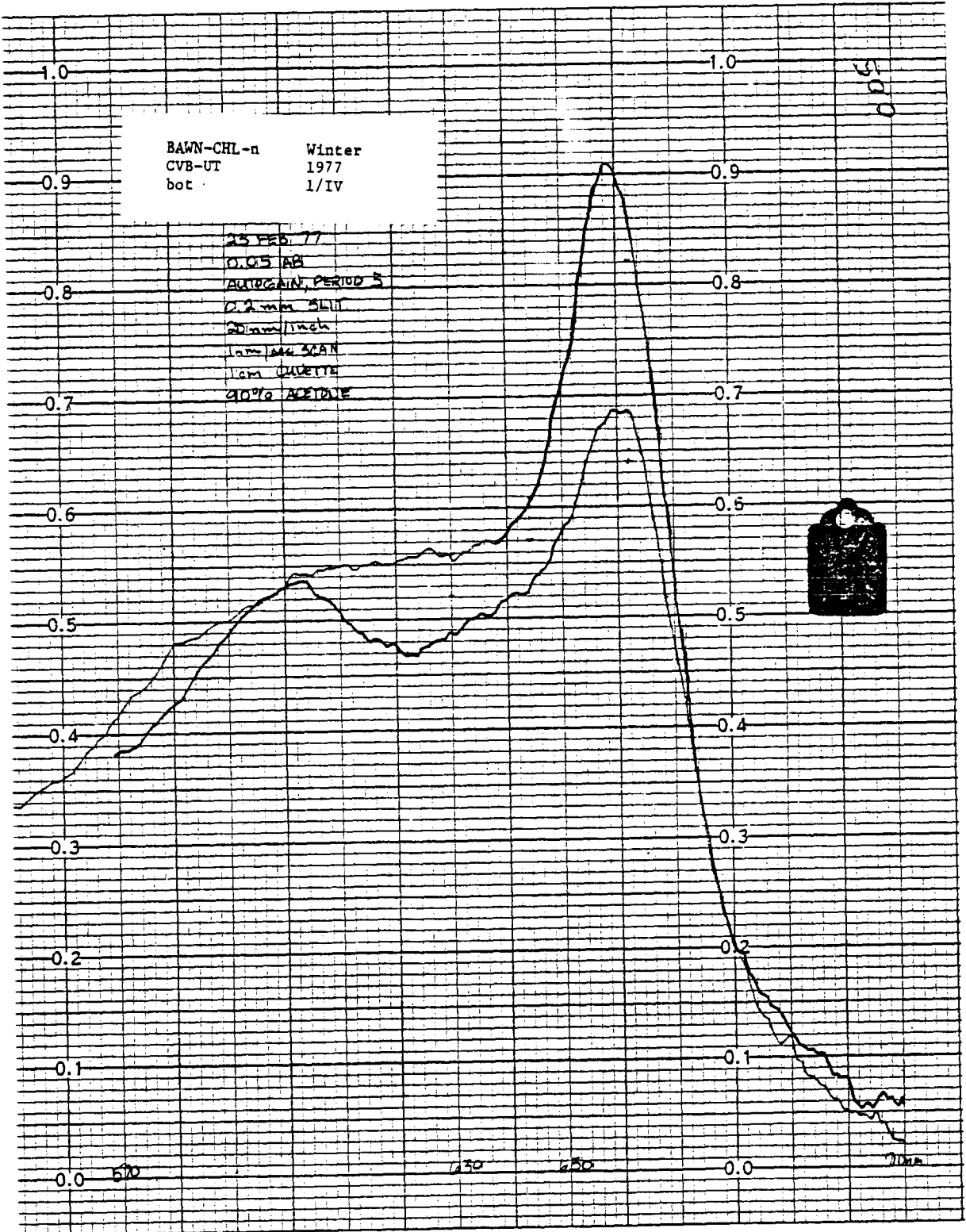








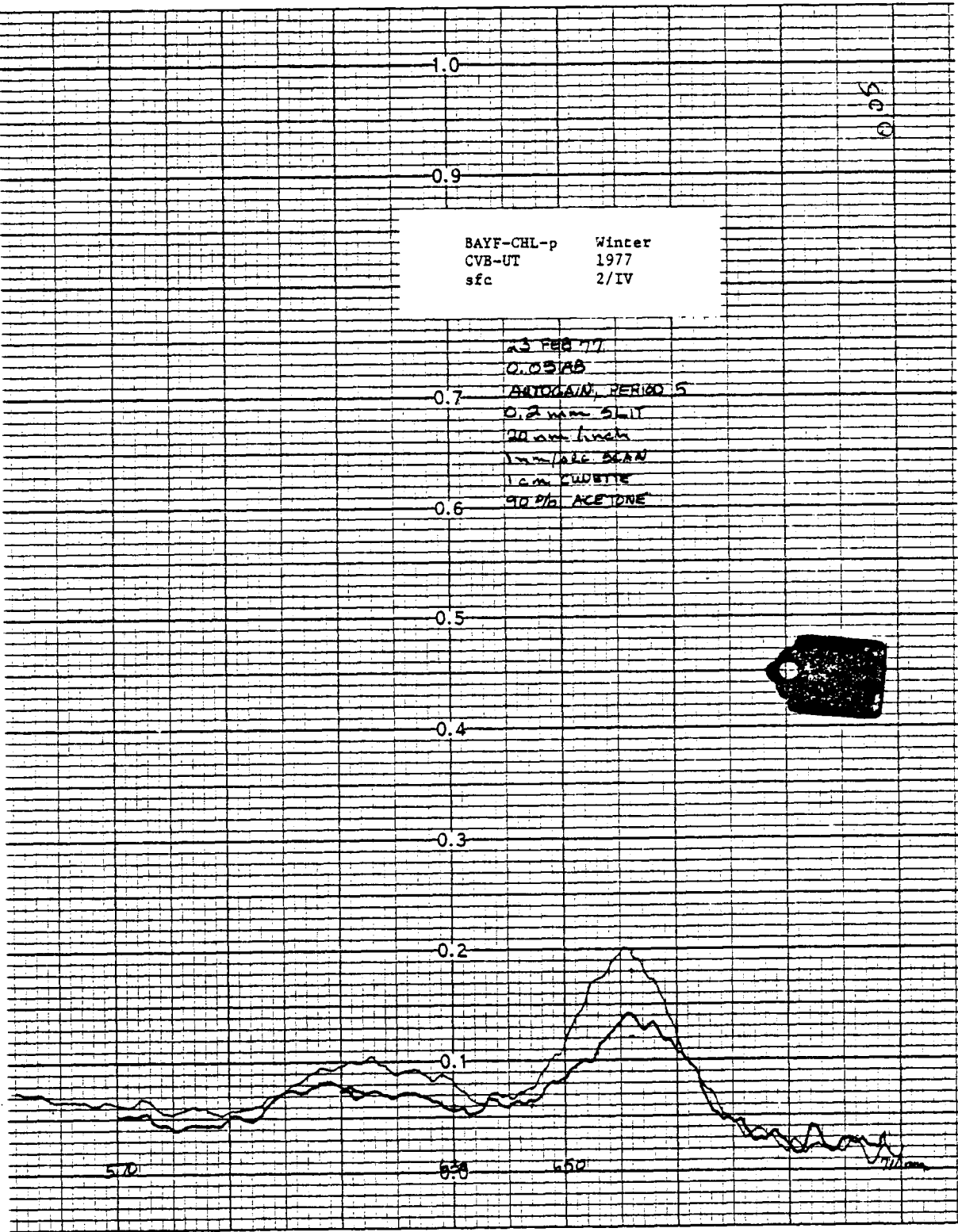
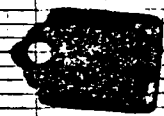




400  
0

BAYF-CHL-p Winter  
CVB-UT 1977  
sfc 2/IV

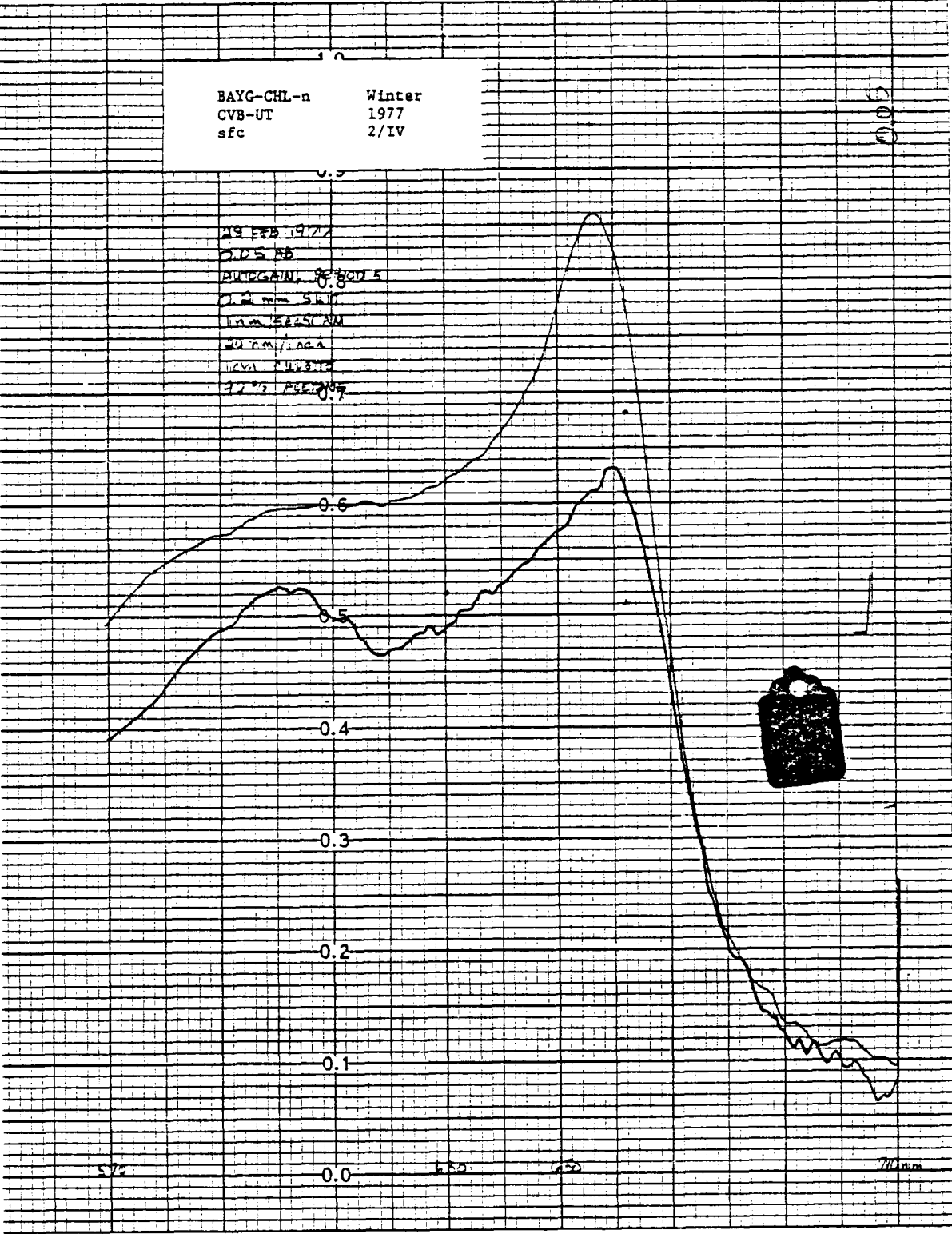
23 FEB 77  
0.05185  
BAYOCAN, PERIOD 5  
0.2 mm SLIT  
20 mm. length  
1 mm dia. SCAN  
1 cm PLOTTER  
90% ACETONE



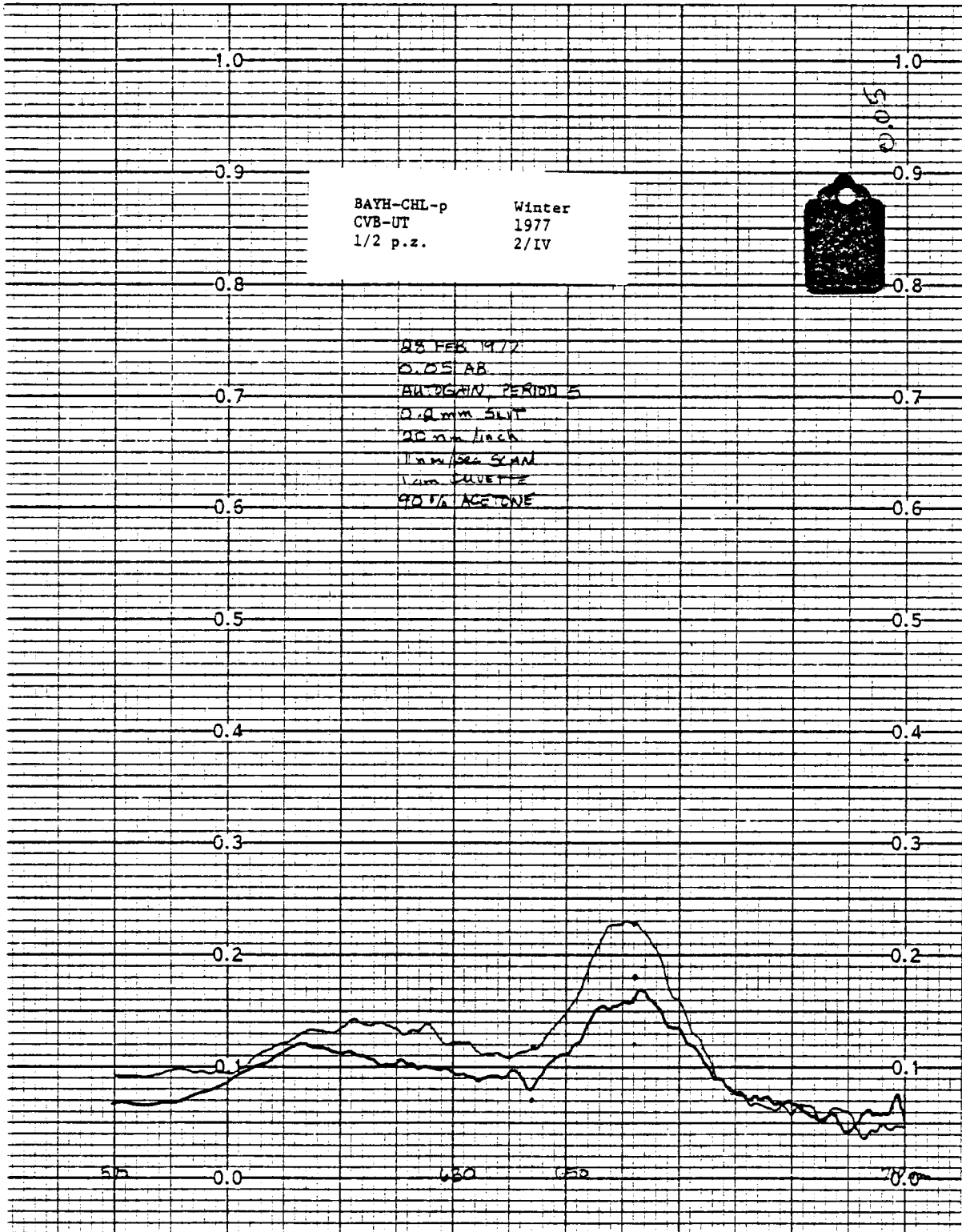
BAYG-CHL-n Winter  
CVB-UT 1977  
sfc 2/IV

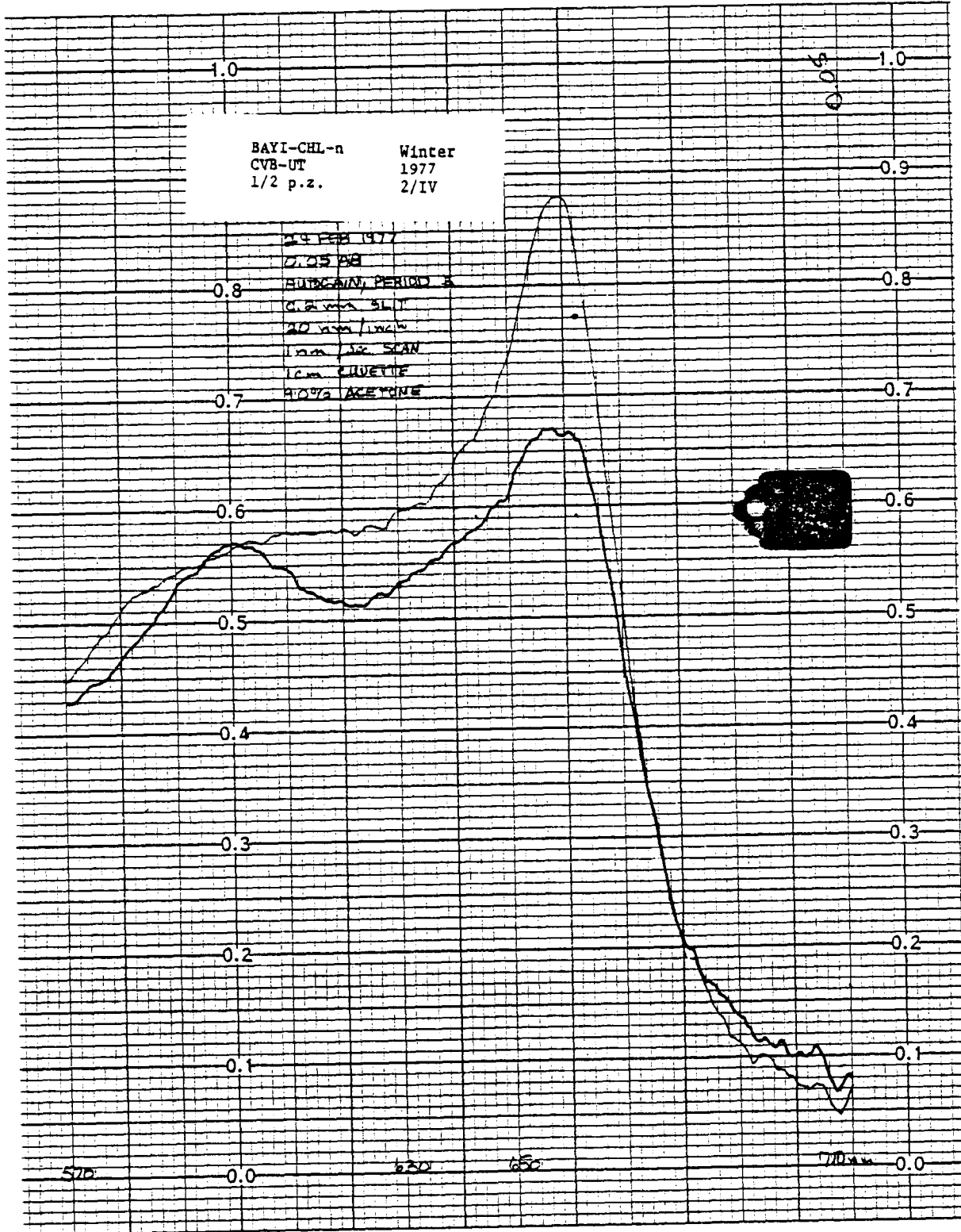
6000

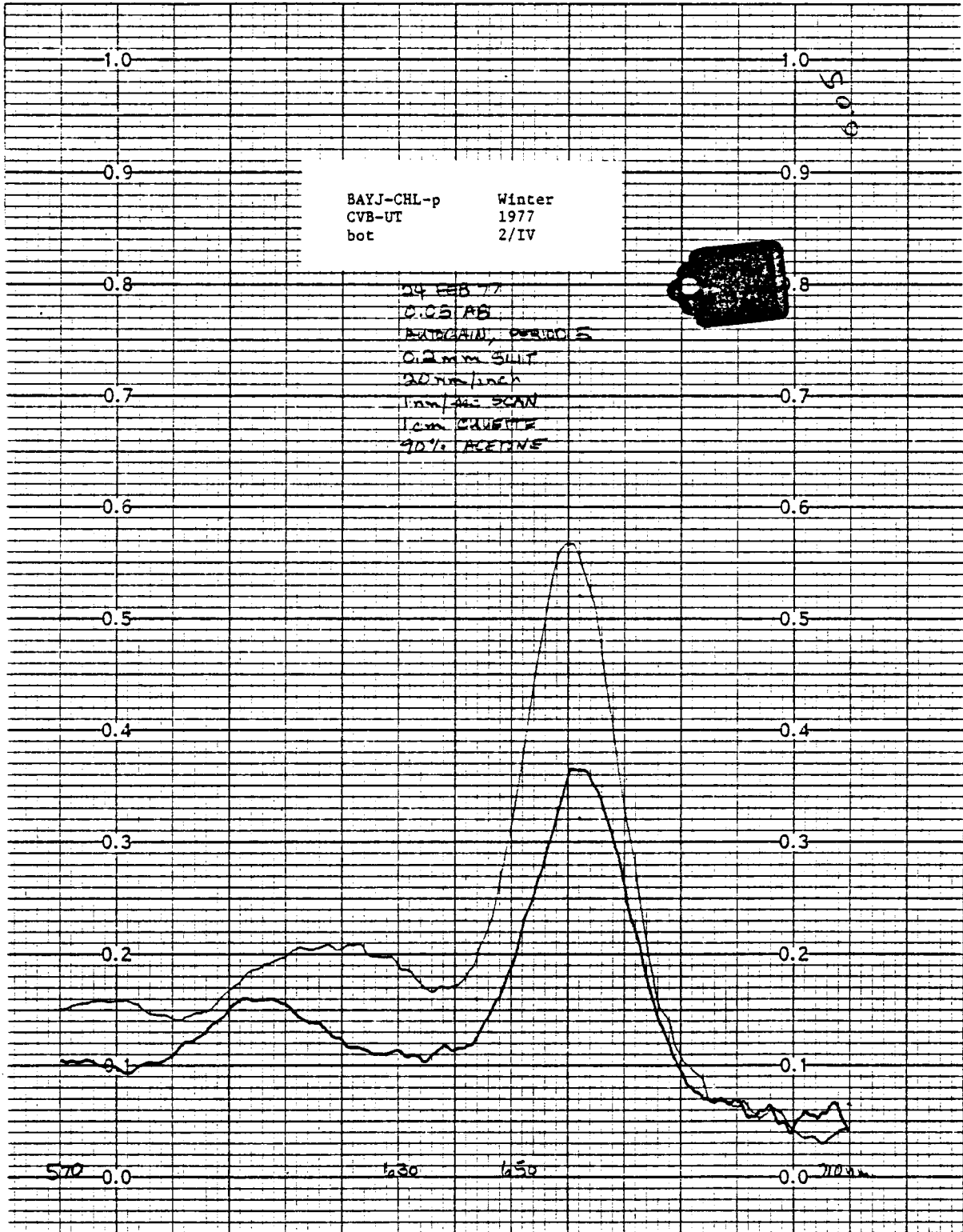
19 FEB 1977  
0.125 AB  
AUTOGAIN, 0.8005  
0.2 mm SKI  
1mm BESSCAN  
20 cm/100  
12V1 CURETE  
17% PSE 0.7







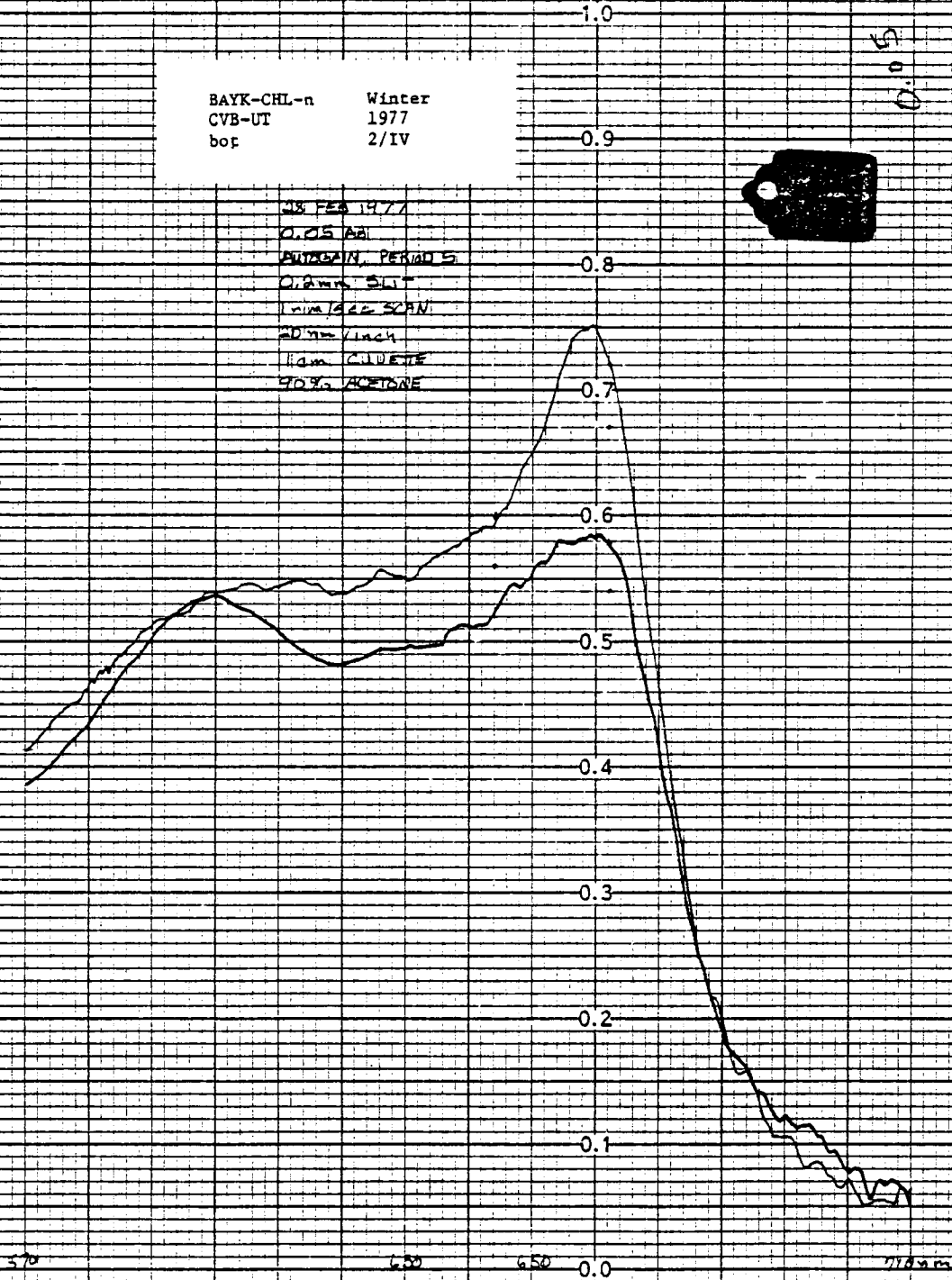




BAYK-CHL-n Winter  
CVB-UT 1977  
bot 2/IV

18 FEB 1977  
0.25 AB  
ANTICAN PERIOD 5  
0.2mm SLIT  
1mm 1000 SCAN  
20mm / inch  
14mm CUVETTE  
90% ACETONE

5  
0.0



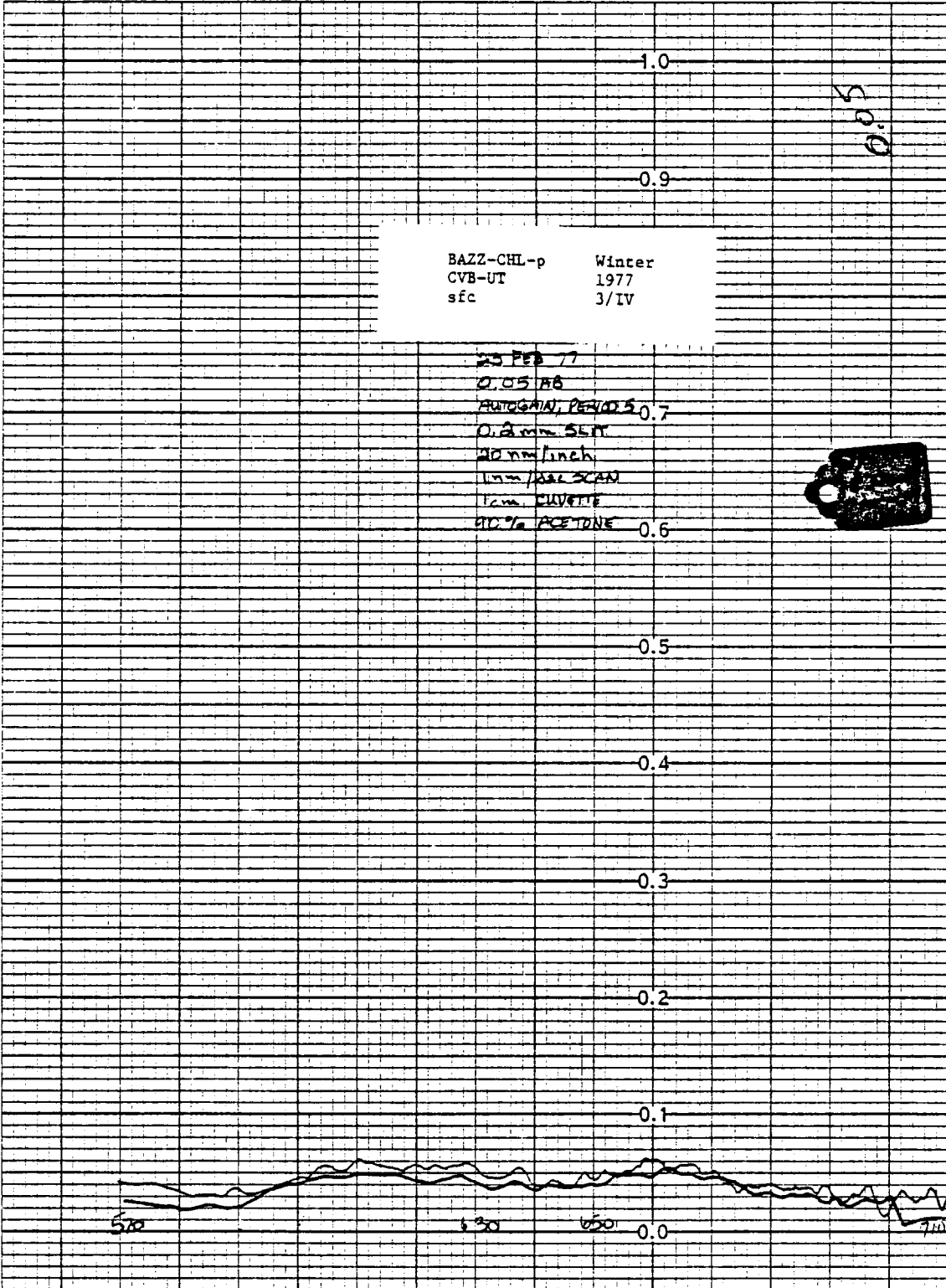
570

630

650

0.0

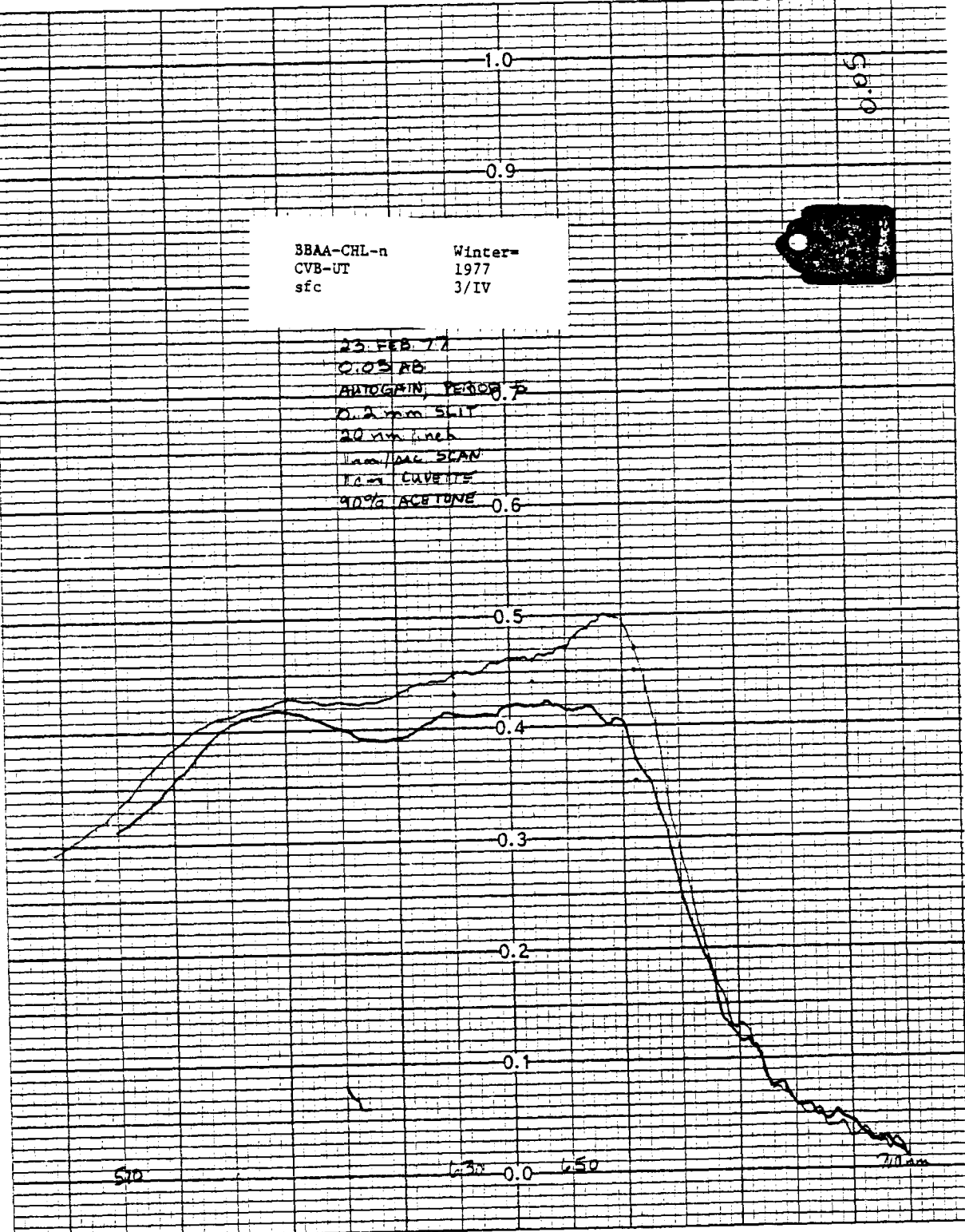
770 nm



3BAA-CHL-n Winter-  
 CVB-UT 1977  
 sfc 3/IV

S.D.

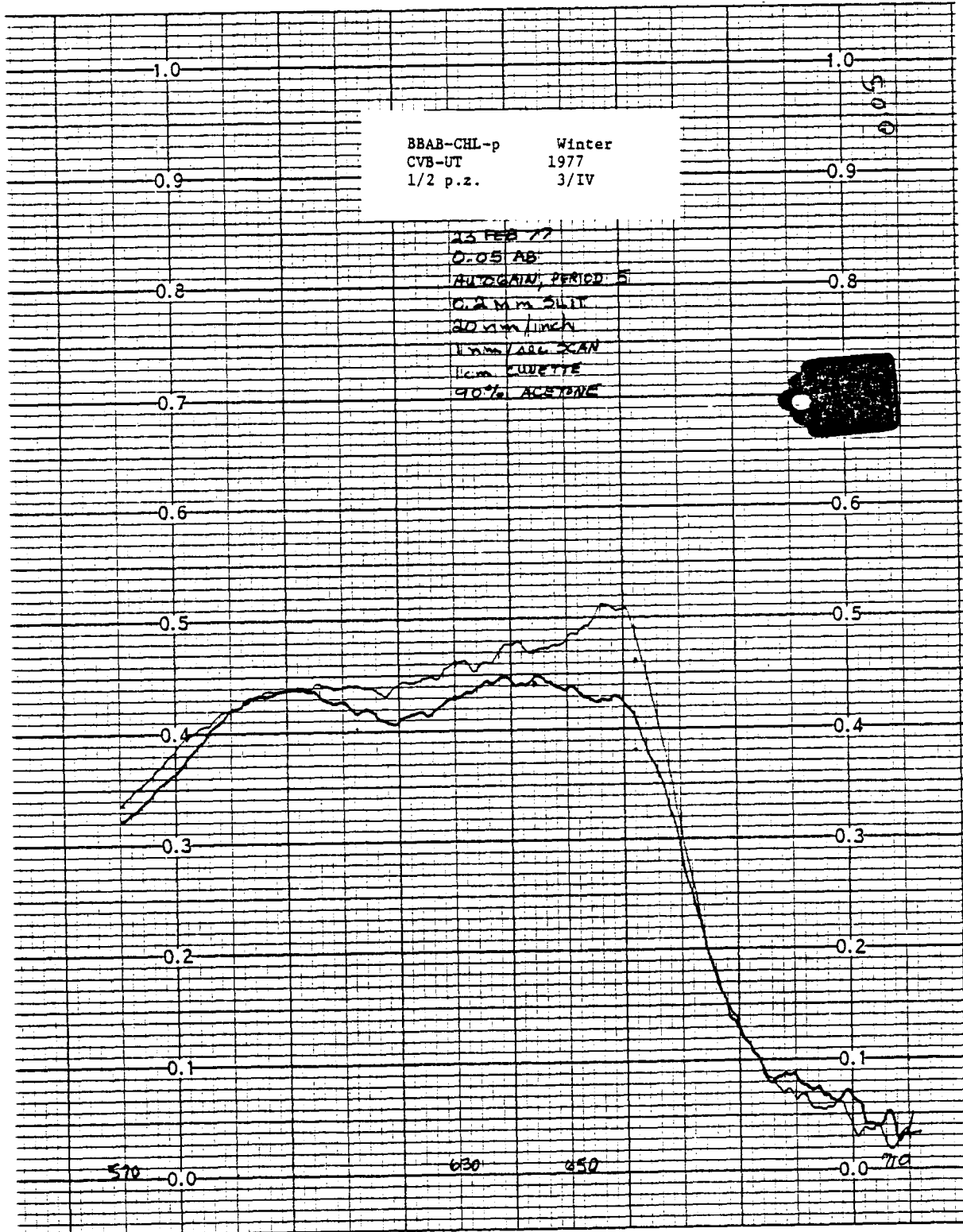
23 FEB 77  
 0.05 RB  
 AUTOGEN, PERIOD 5  
 0.2 mm SLIT  
 20 mm. Ineb  
 1.000/100.0 SLAN  
 1.000 CUVETTE  
 90% ACETONE 0.6

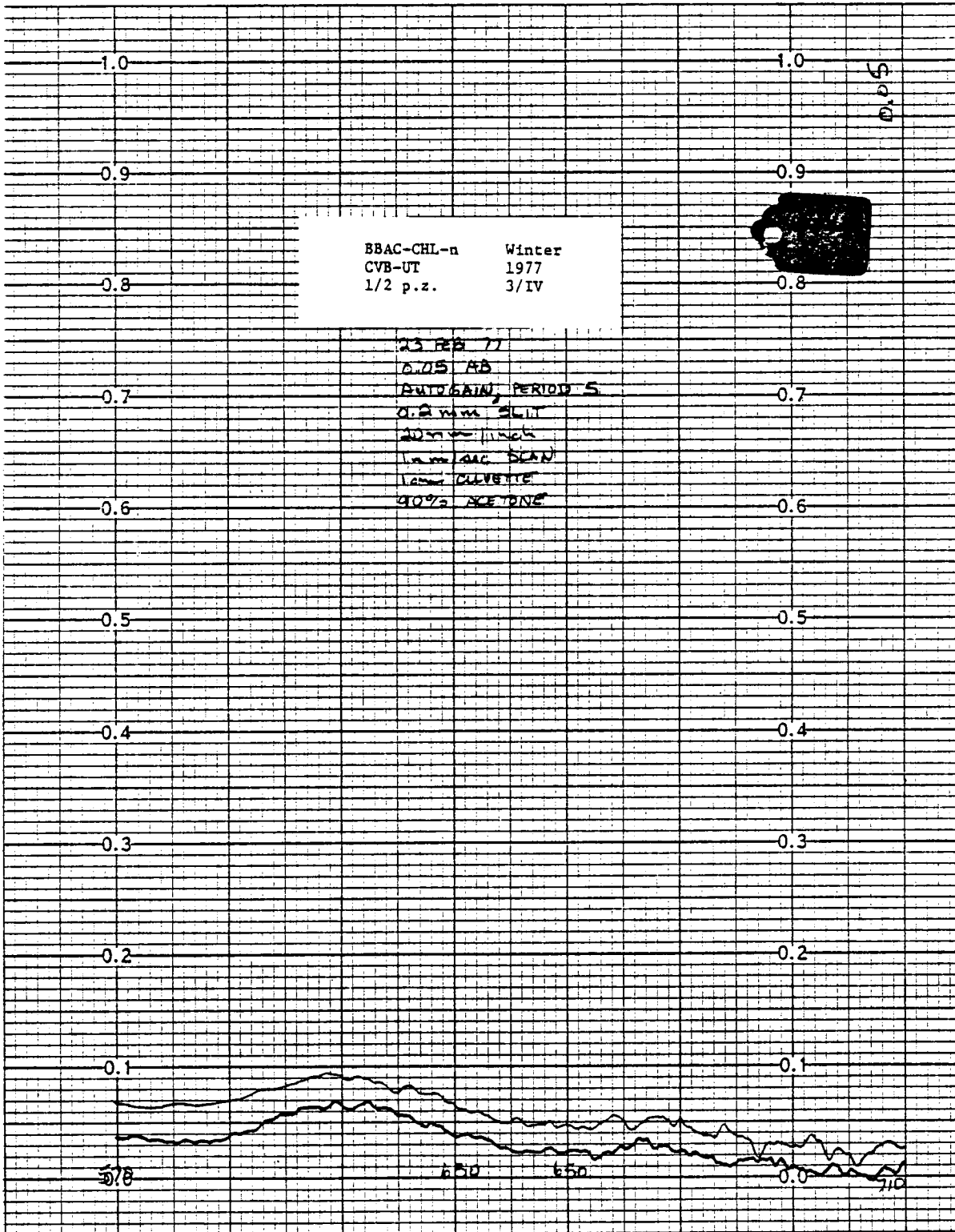


S.D.

6.30 6.50

7.10 min



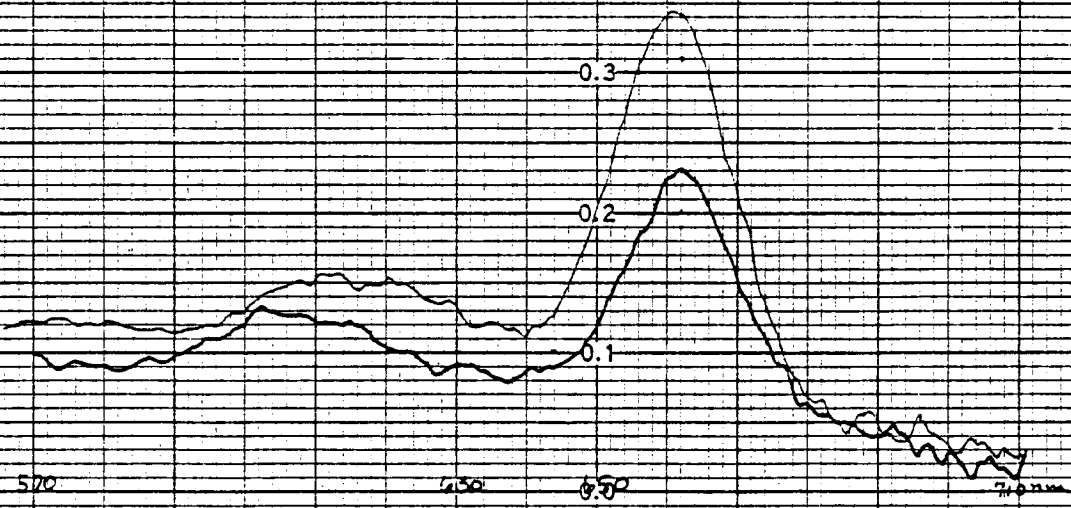




BBAD-CHL-p      Winter  
 CVB-UT          1977  
 bot                3/IV

25 FEB 77  
 0.05 AB  
 AUTOGAIN PERIOD 5  
 0.2 um SLIT  
 20 nm/inch  
 1 um/sec SCAN  
 1 cm CUVETTE  
 90% XETONE 0.6

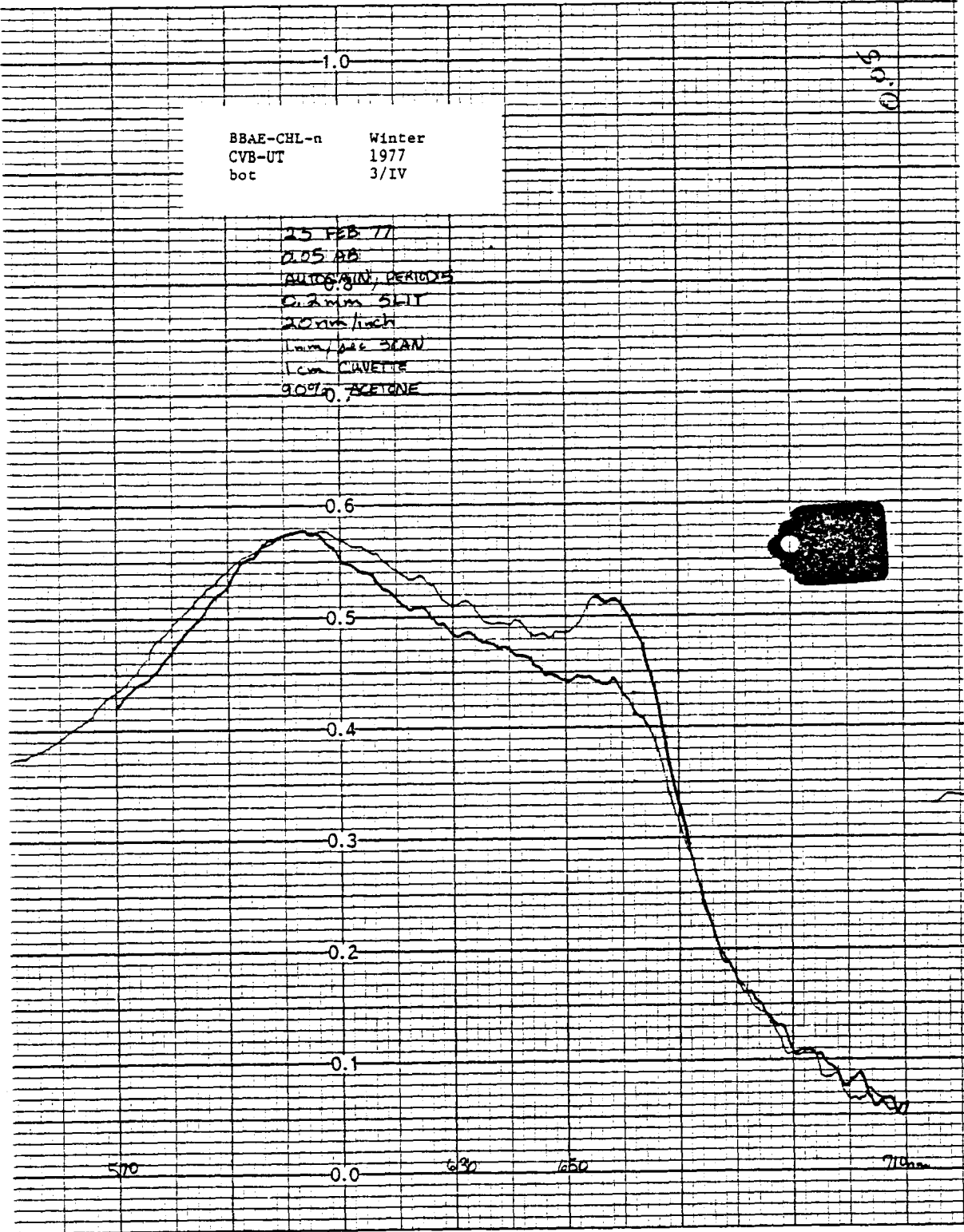
0.05



BBAE-CHL-n	Winter
CVB-UT	1977
bot	3/IV

25 FEB 77  
 0.05 AB  
 AUTO SCAN, PERIODS  
 0.2mm SLIT  
 20cm/inch  
 1cm/sec SCAN  
 1cm CUVETTE  
 90% AZETONE

0.05



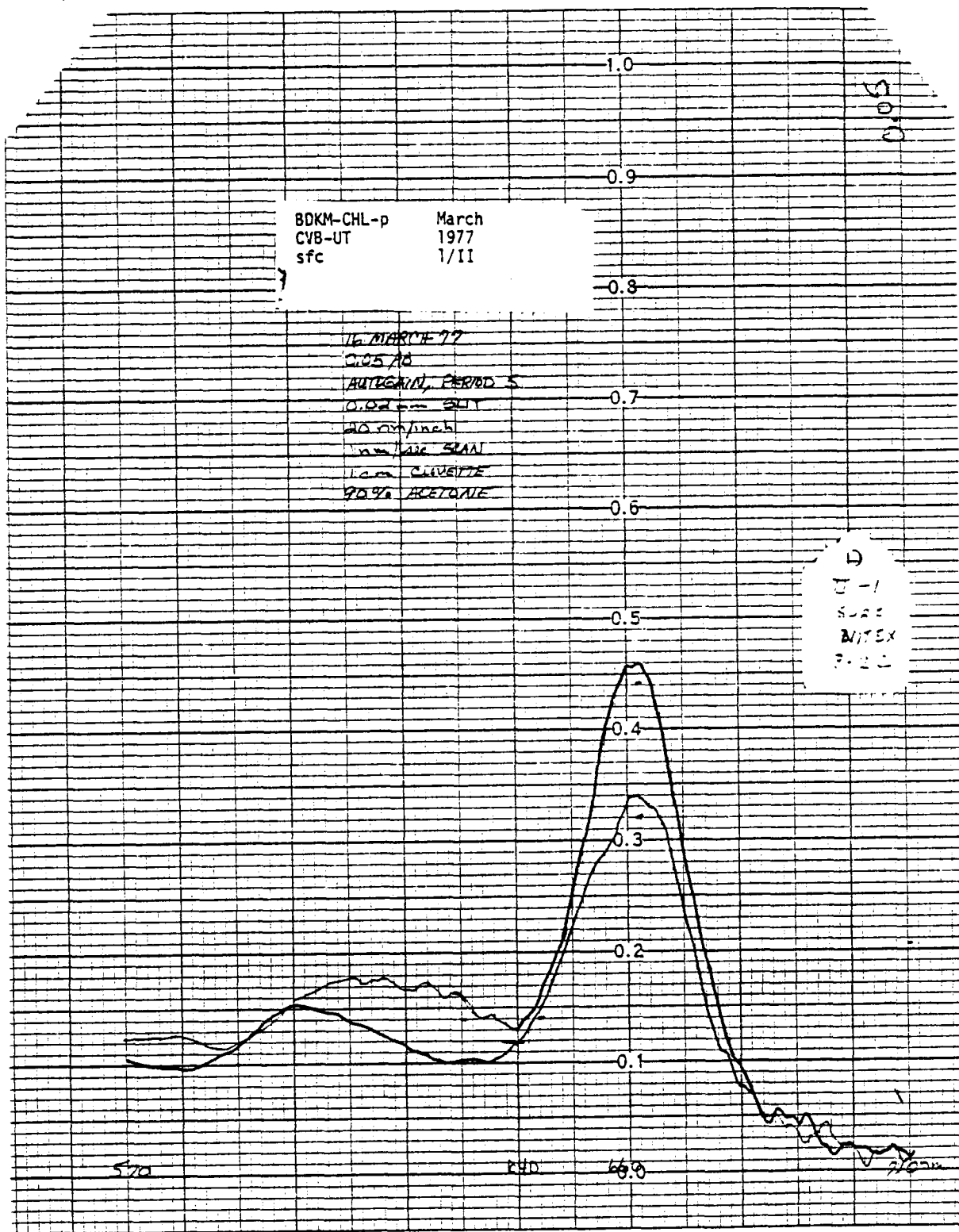
570

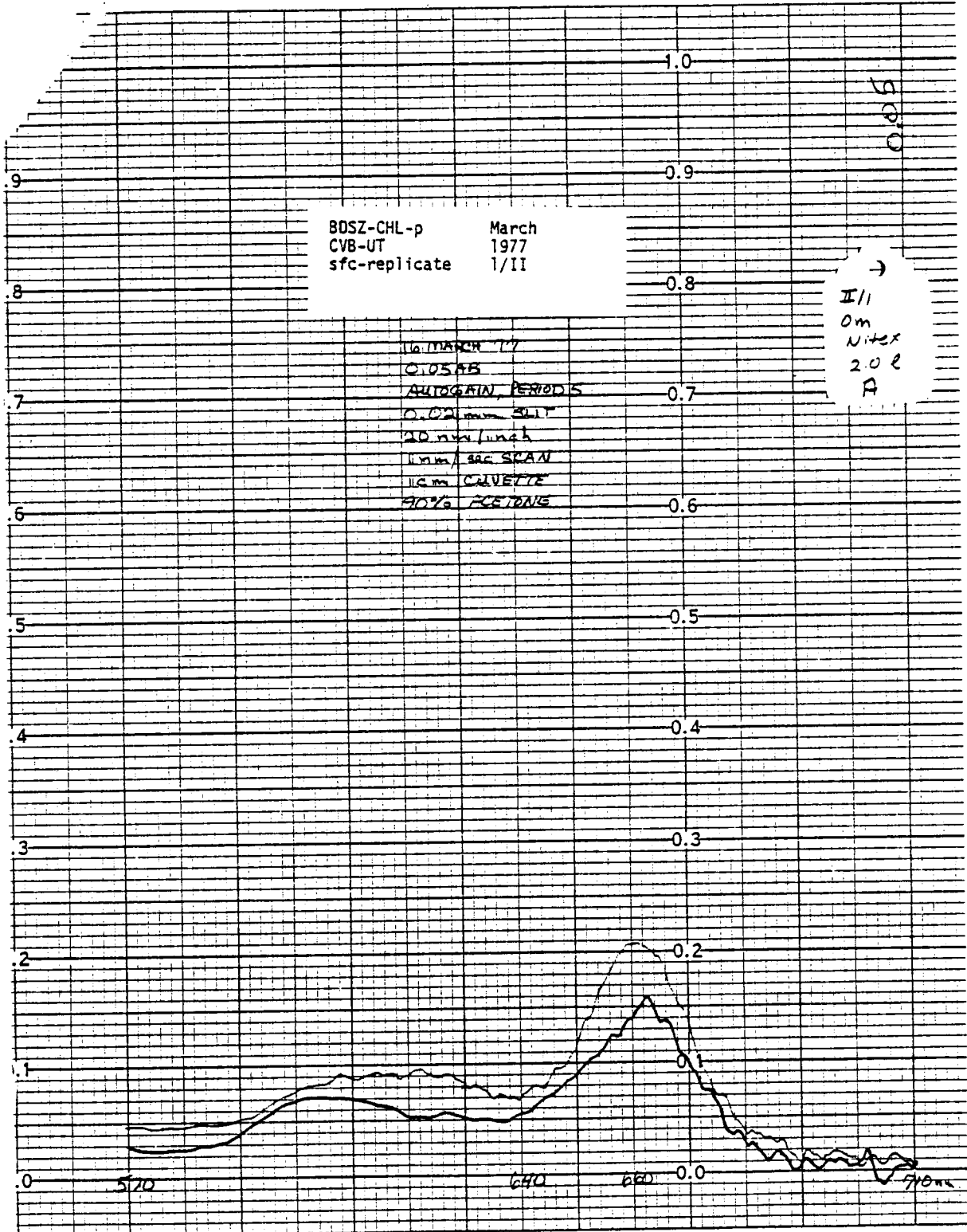
0.0

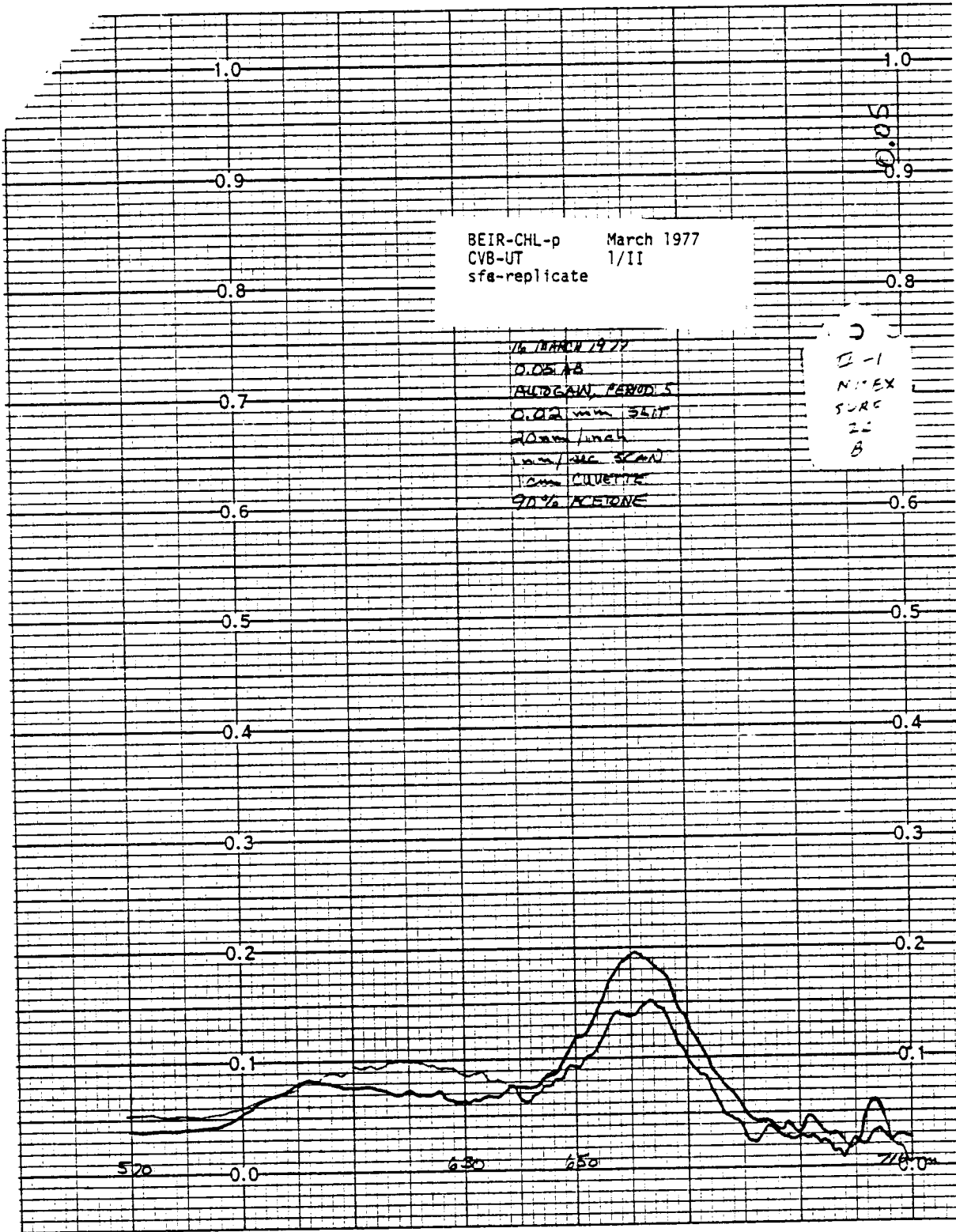
630

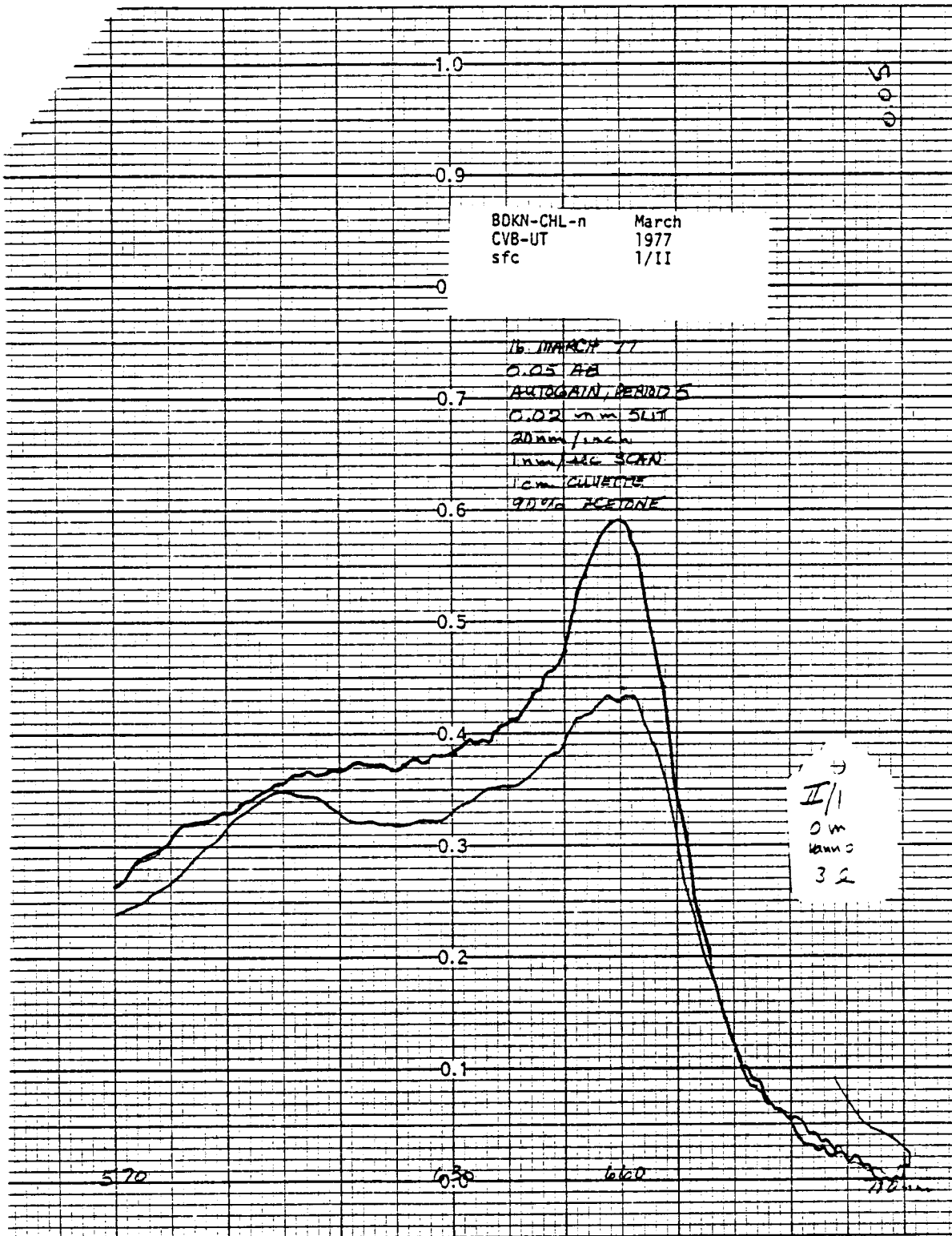
650

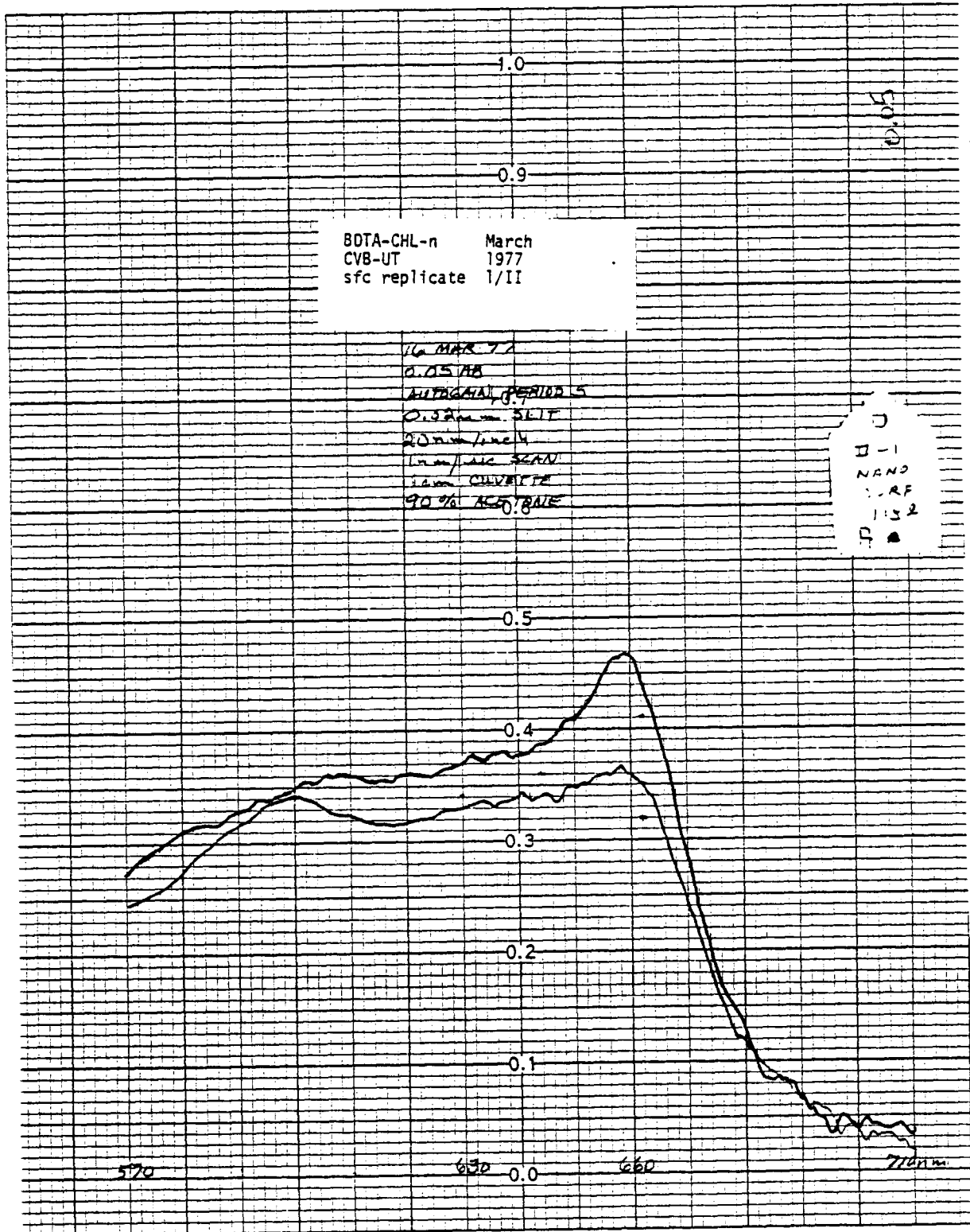
710

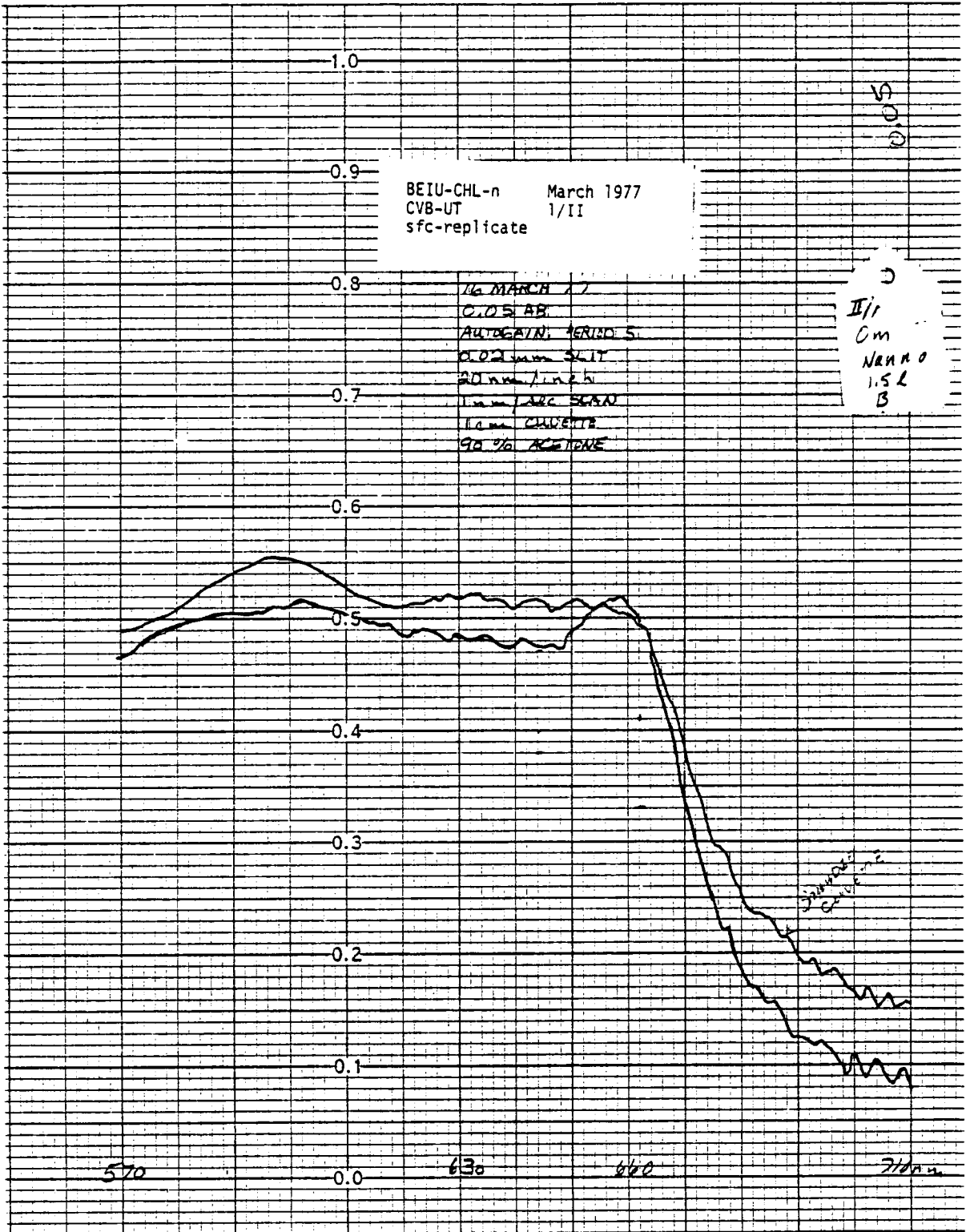




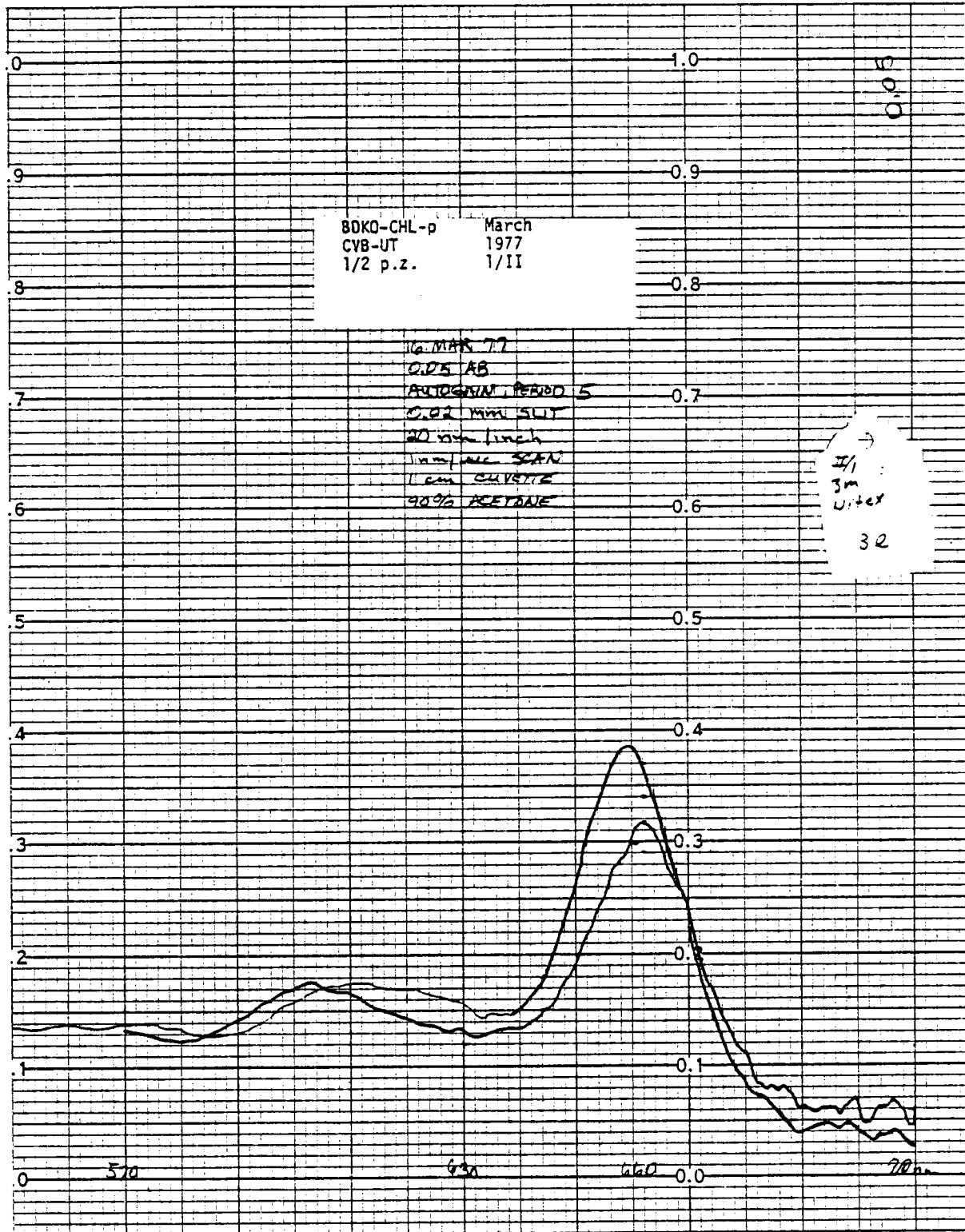


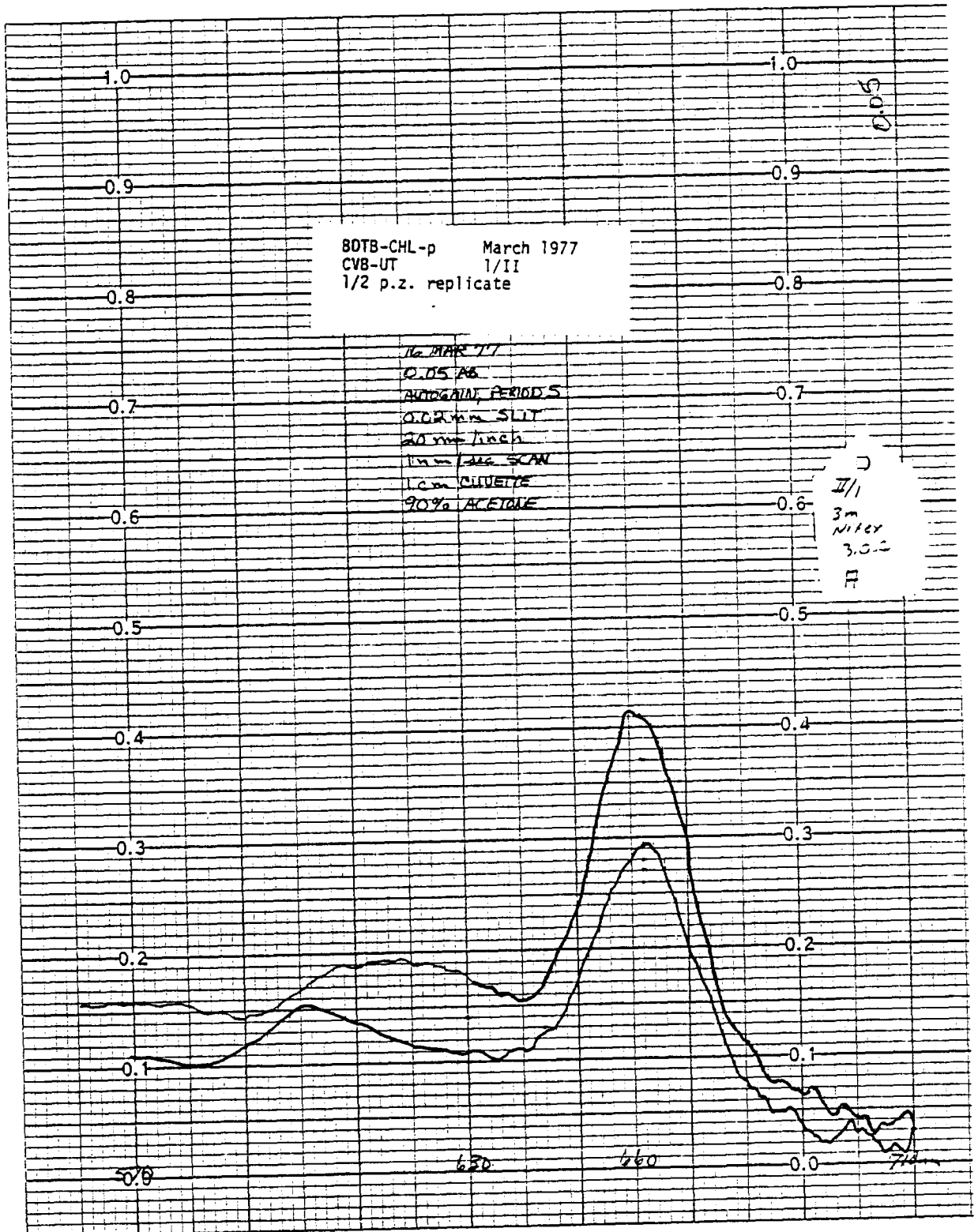


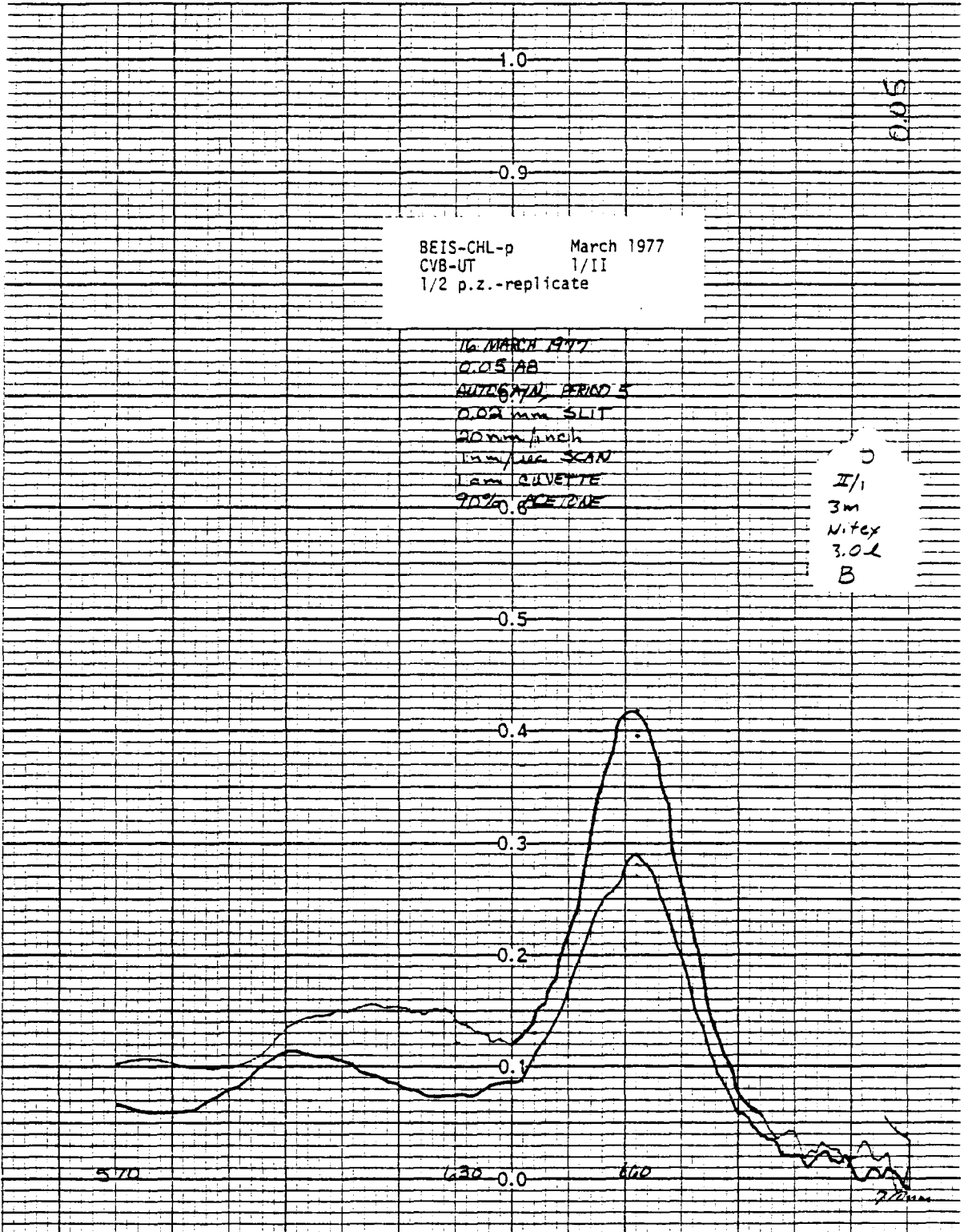


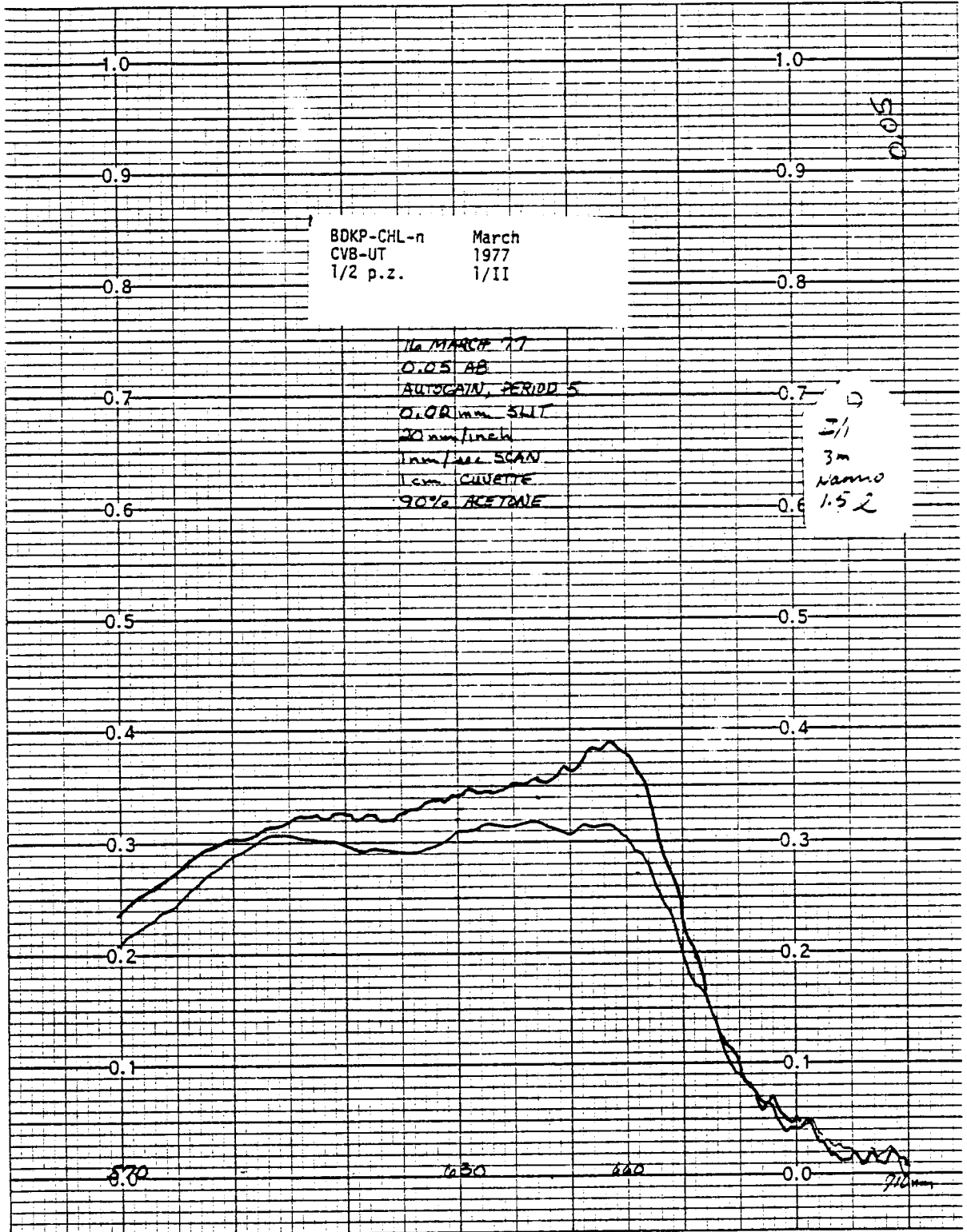


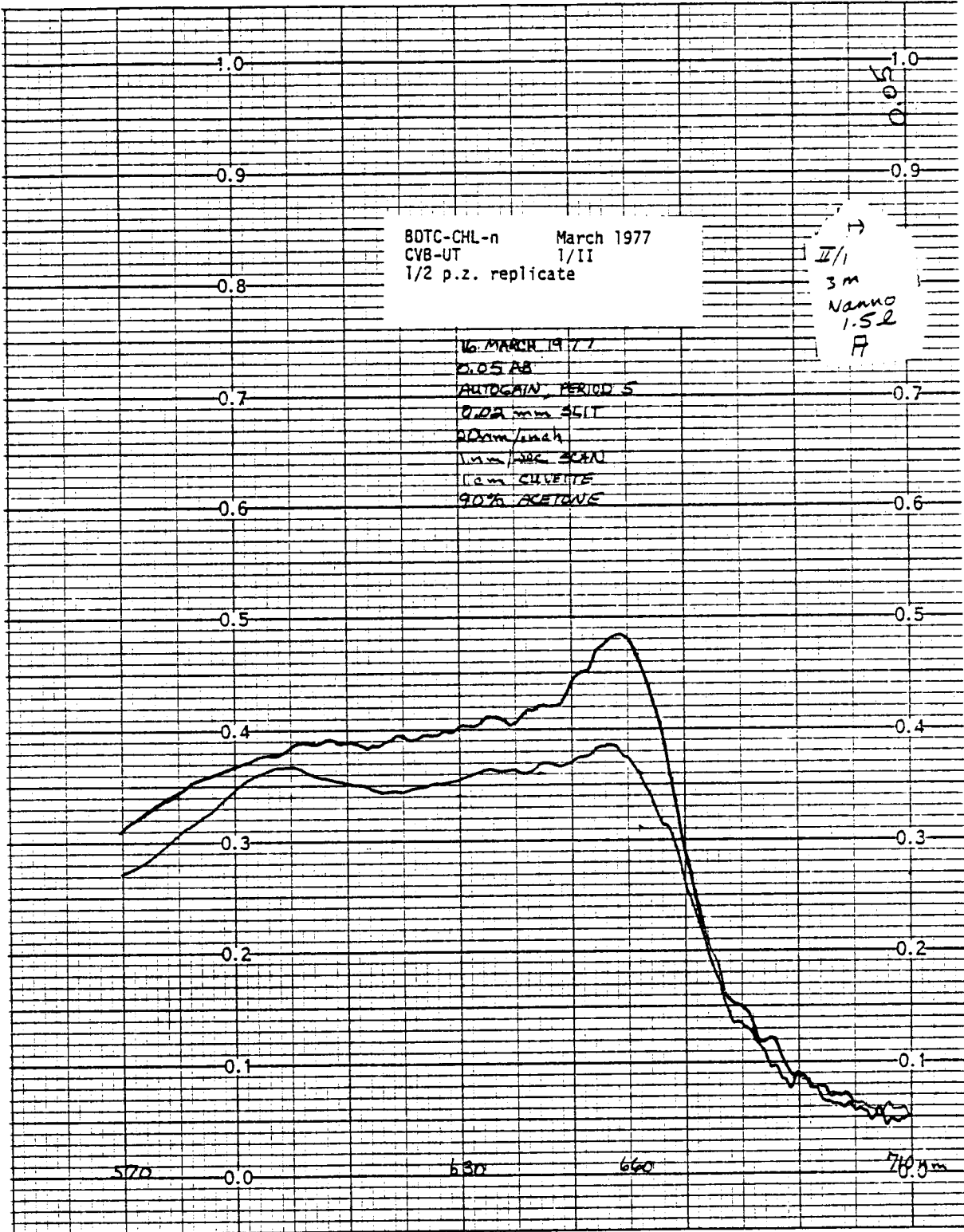


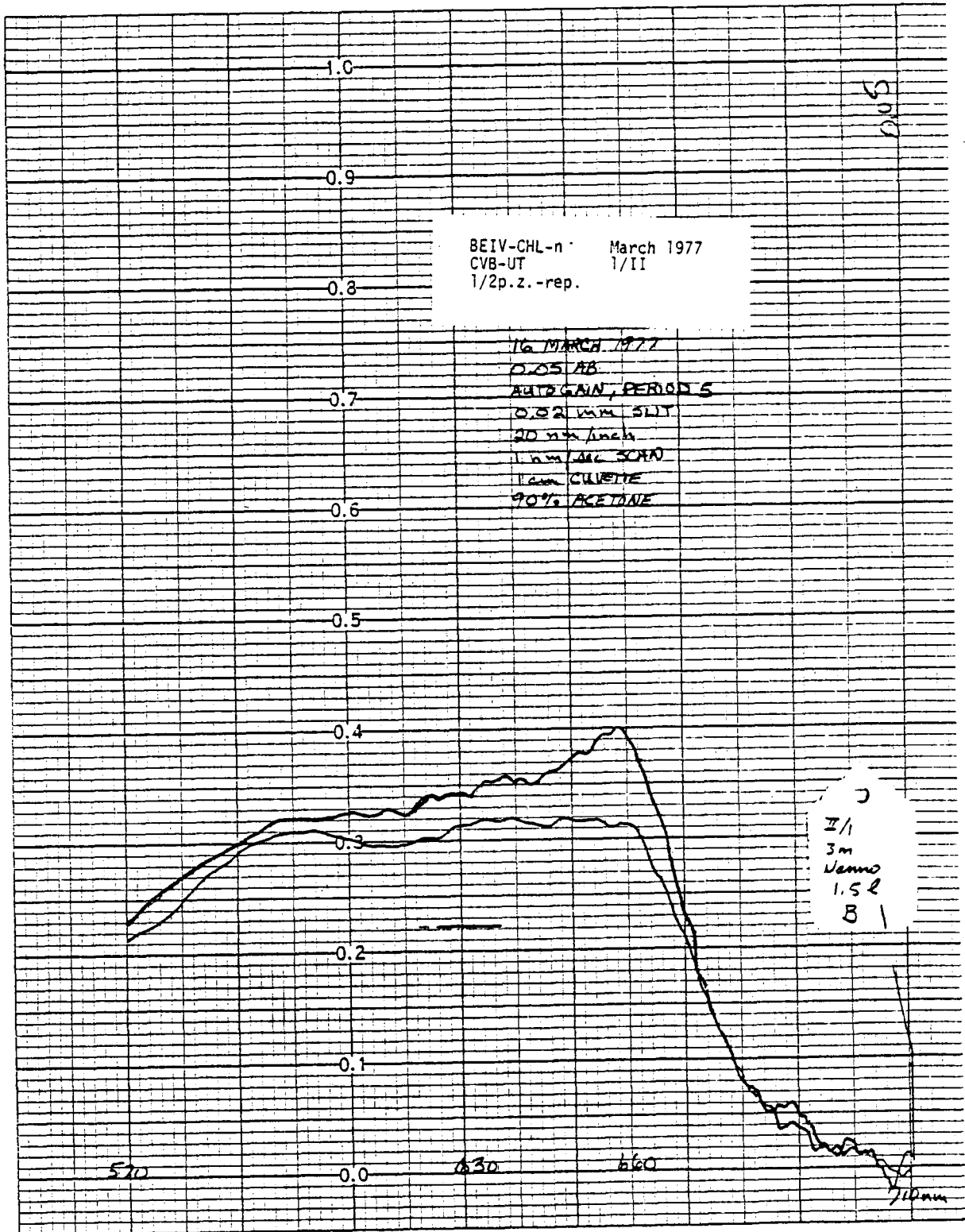


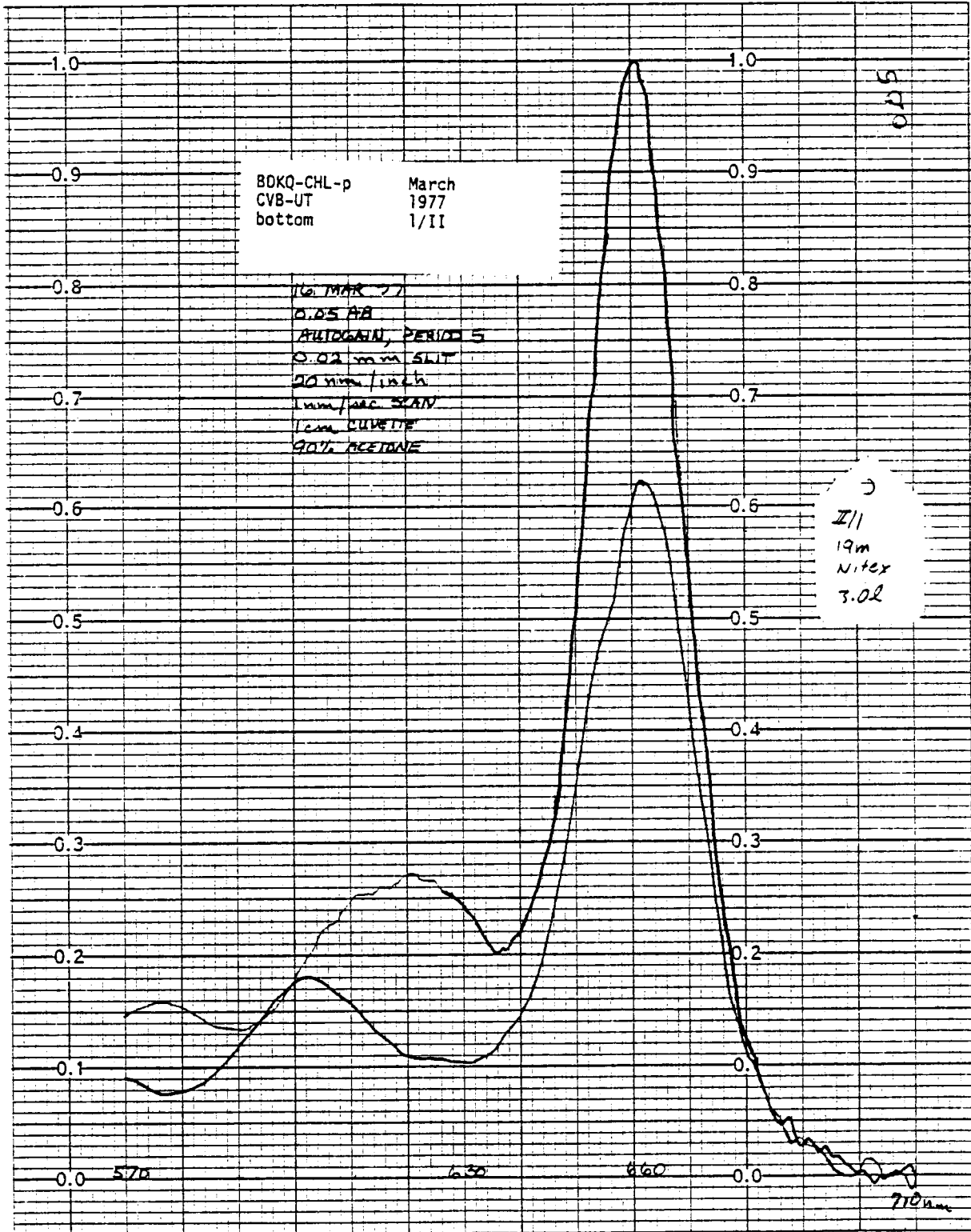










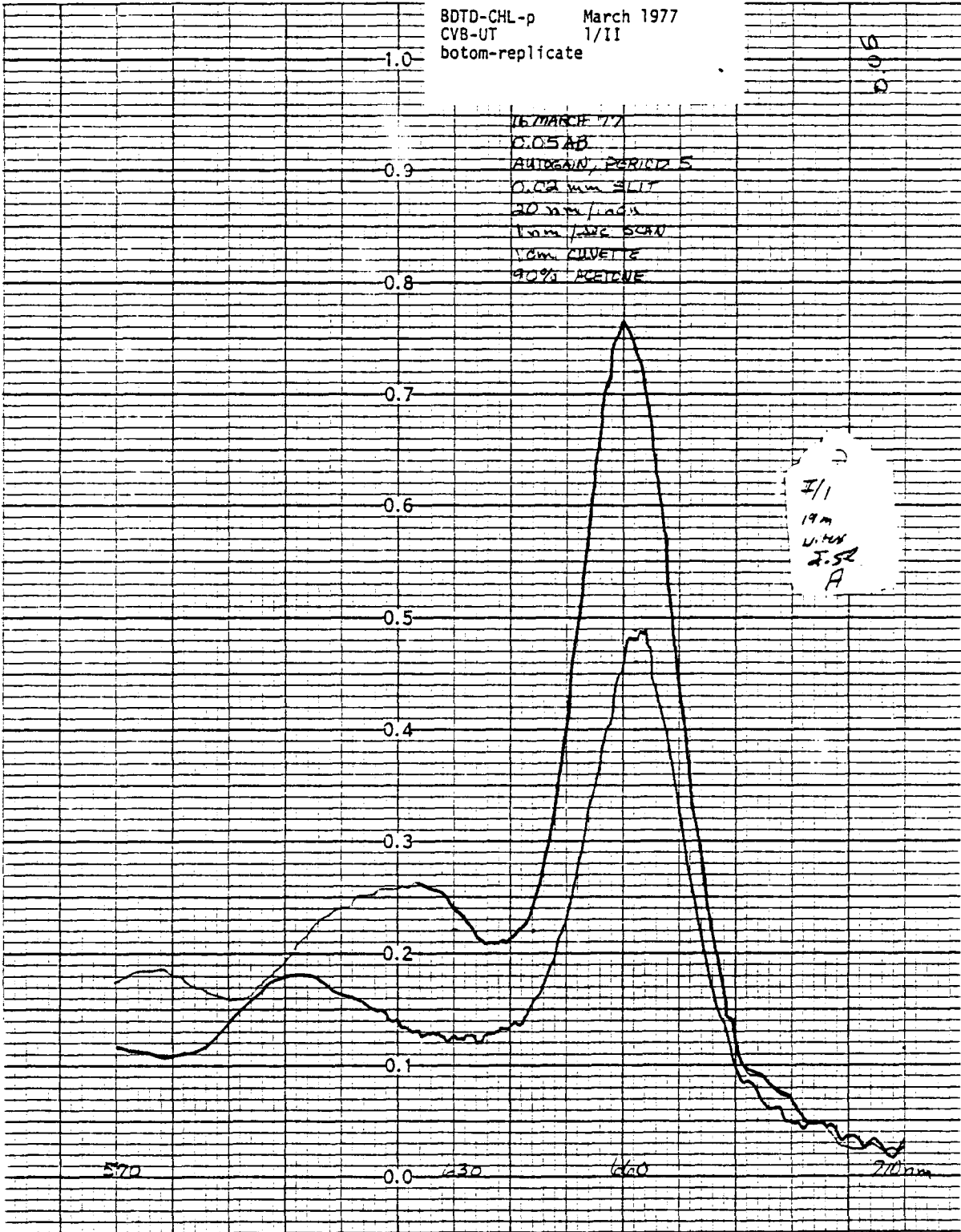


BTD-CHL-p March 1977  
CVB-UT 1/II  
botom-replicate

0.00

16 MARCH 77  
0.05 AB  
AUREGAN, PERIOD 5  
0.02 mm SLIT  
20 mμ / inch  
1 cm / WAVE SCAN  
1 cm CUVETTE  
90% ACETONE

II  
19m  
U.M.N  
2.52  
A



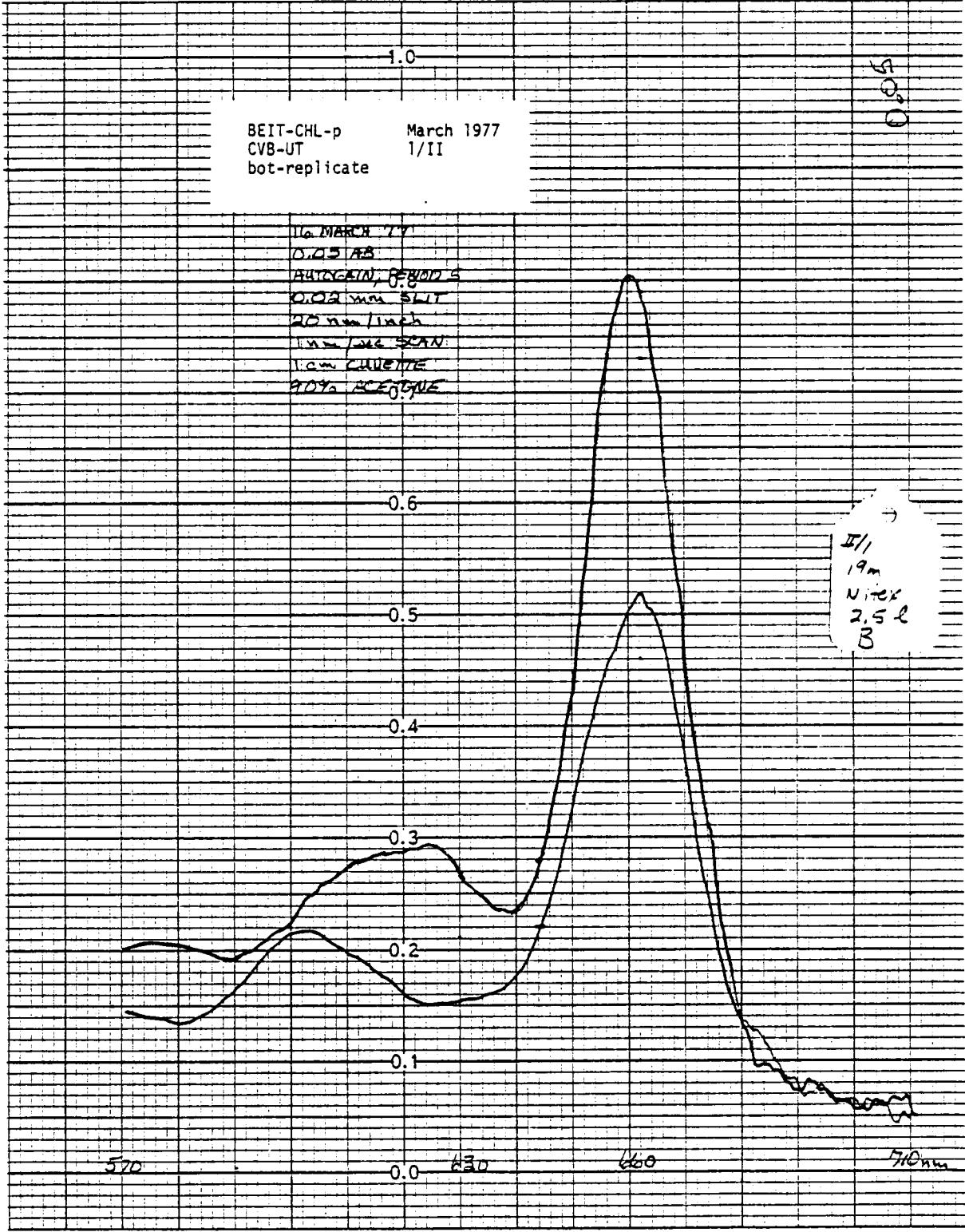


BEIT-CHL-p      March 1977  
CVB-UT            1/II  
bot-replicate

16 MARCH 77  
0.05 AB  
AUXILIARY, 0.800 S  
0.02 mm SLIT  
20 nm / inch  
1 mm / sec SCAN  
1 cm CUVETTE  
90% REFLECTIVE

0.05

II/1  
19m  
NICK  
2.5L  
B

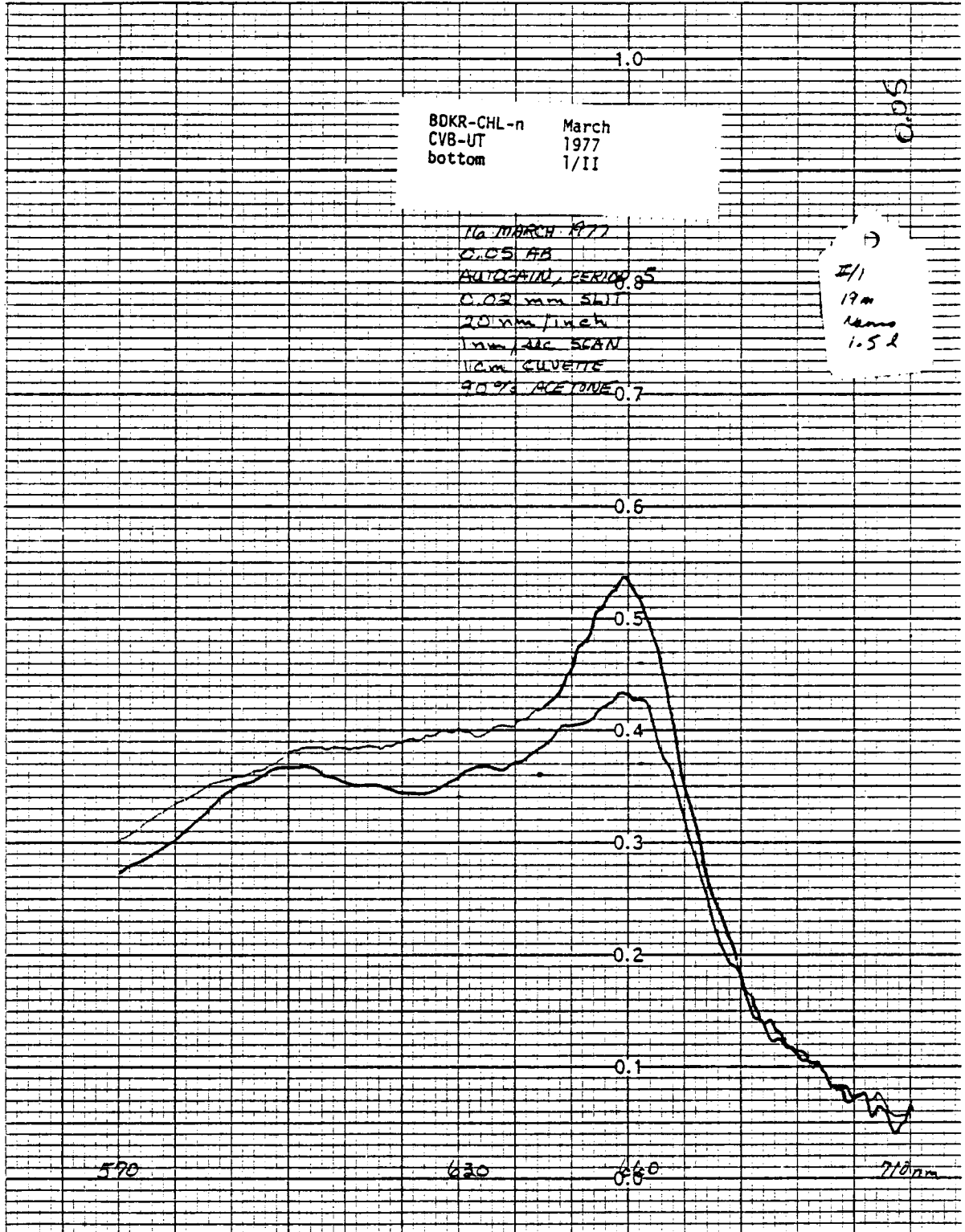


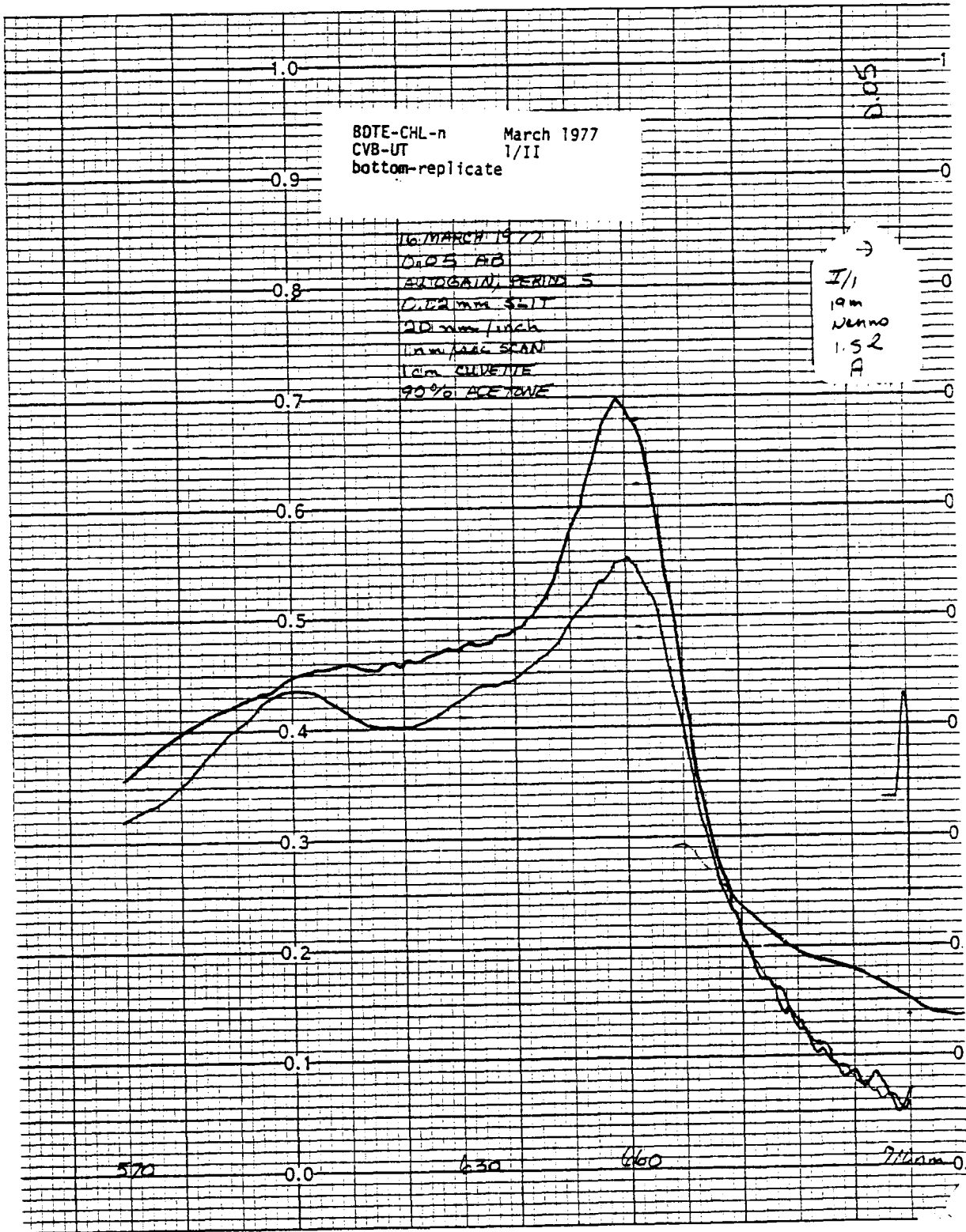
BDKR-CHL-n March  
CVB-UT 1977  
bottom 1/11

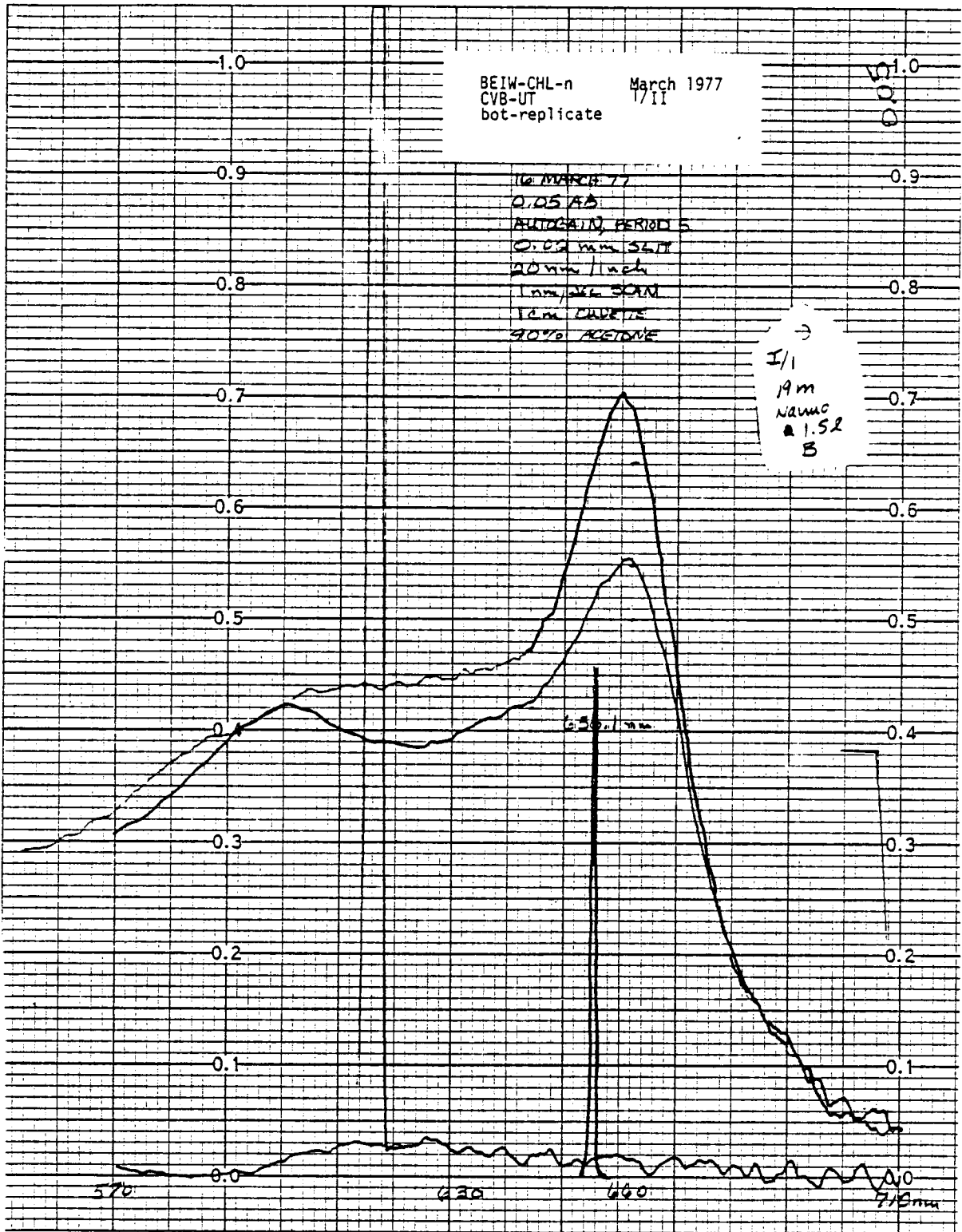
0.05

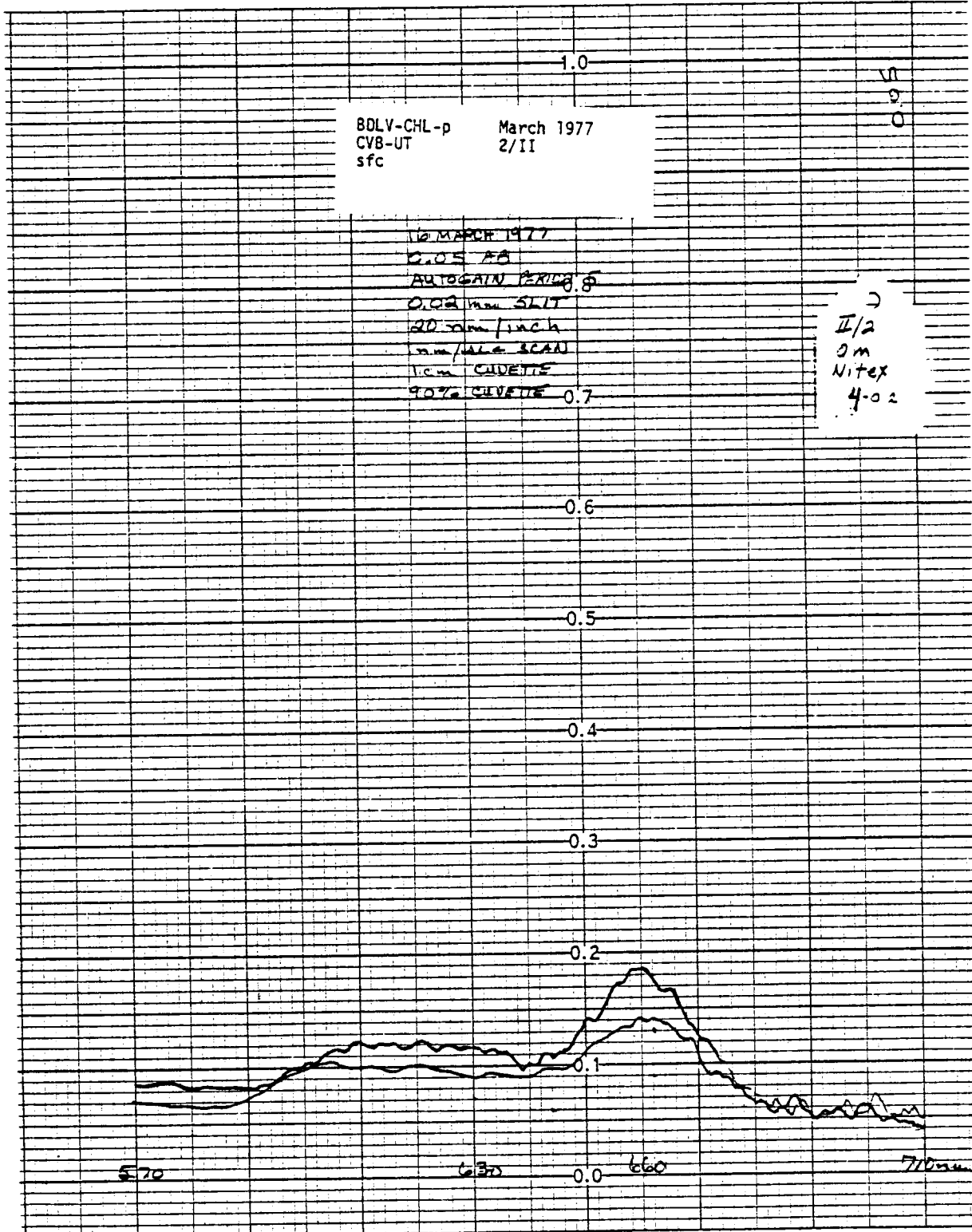
10 MARCH 1977  
0.05 AB  
AUTOGAIN, PERIOD 8.5  
0.02 mm slit  
20 nm / inch  
1 mm / sec SCAN  
10 cm CUVETTE  
90% ACETONE 0.7

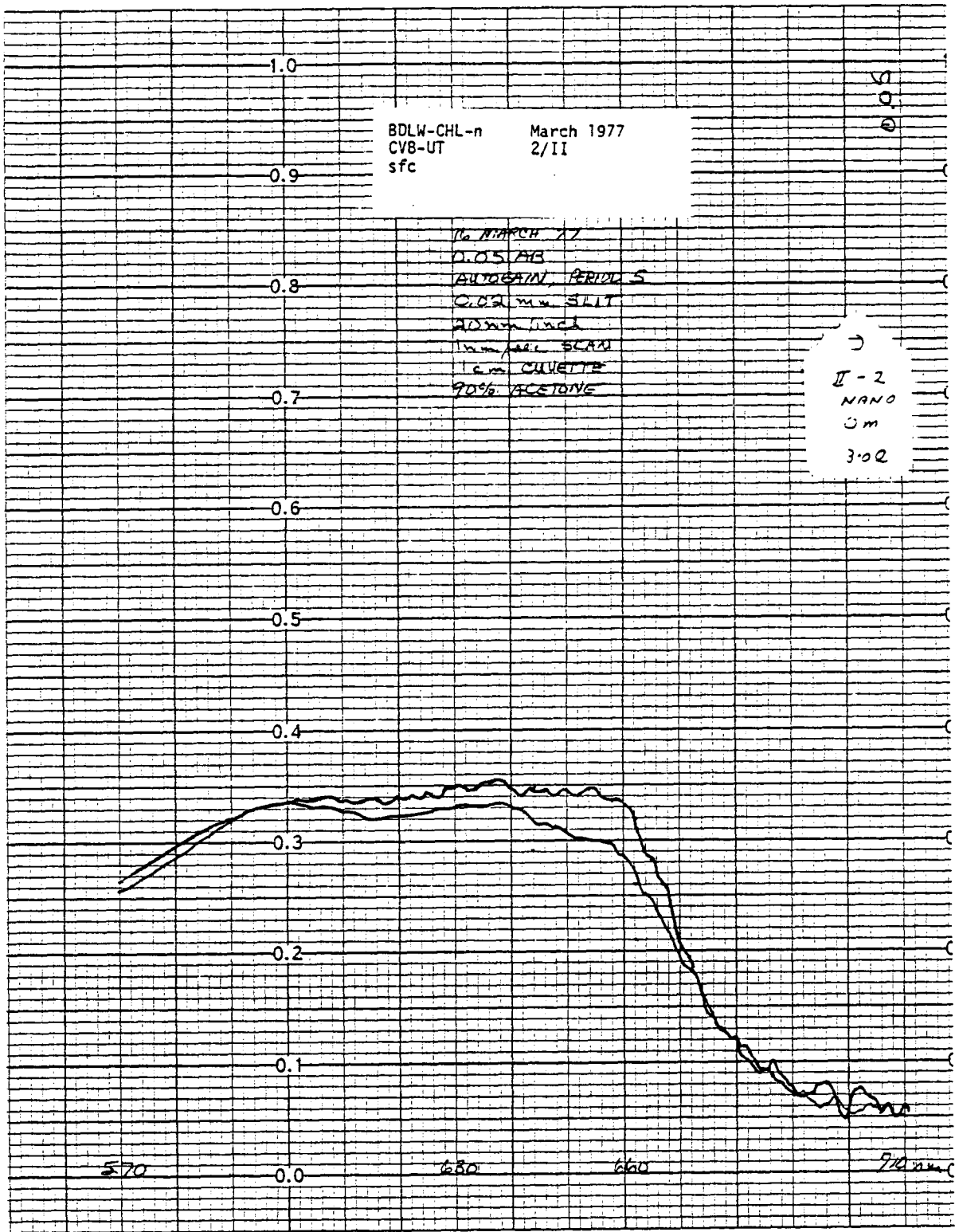
F/1  
19m  
1.52

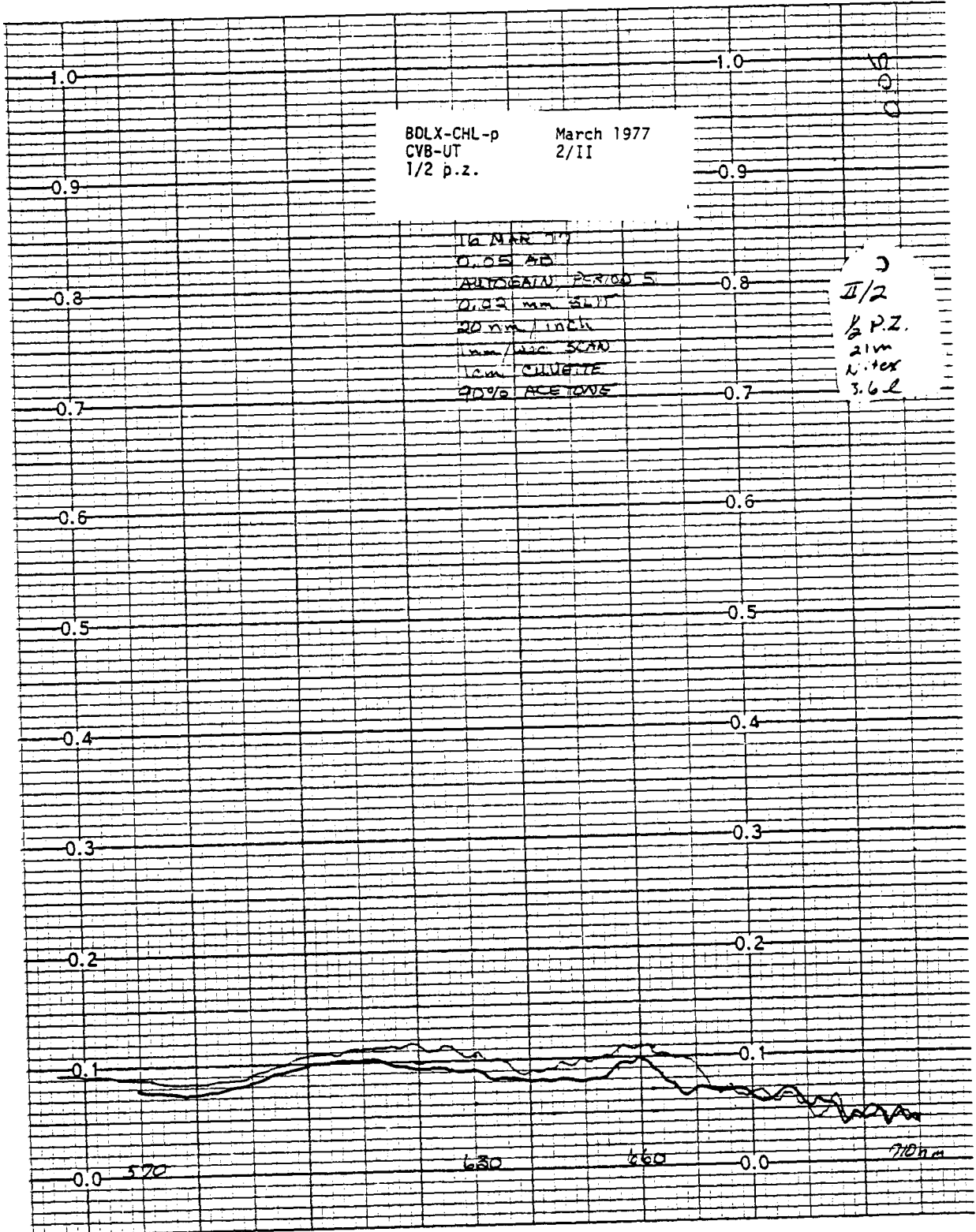


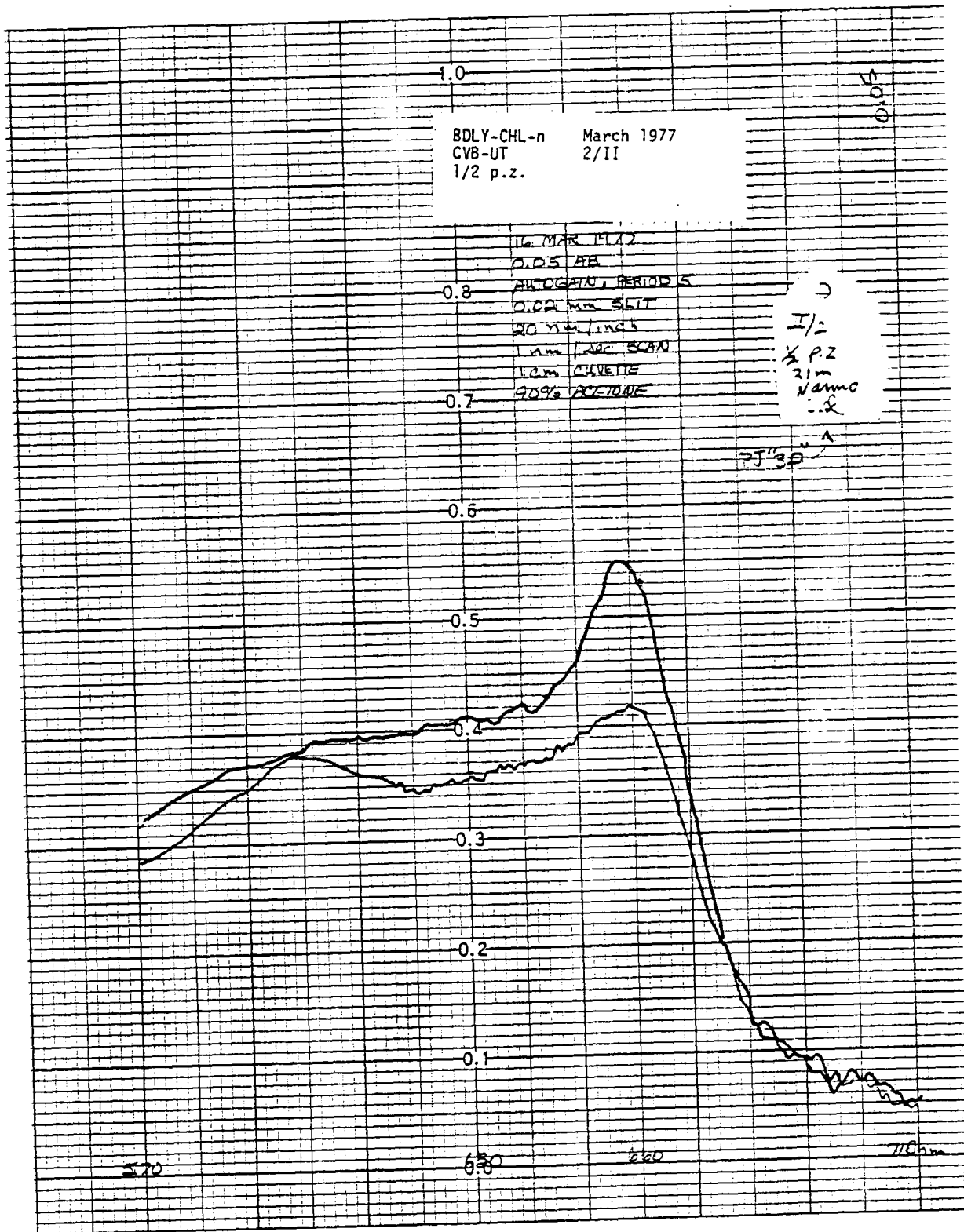




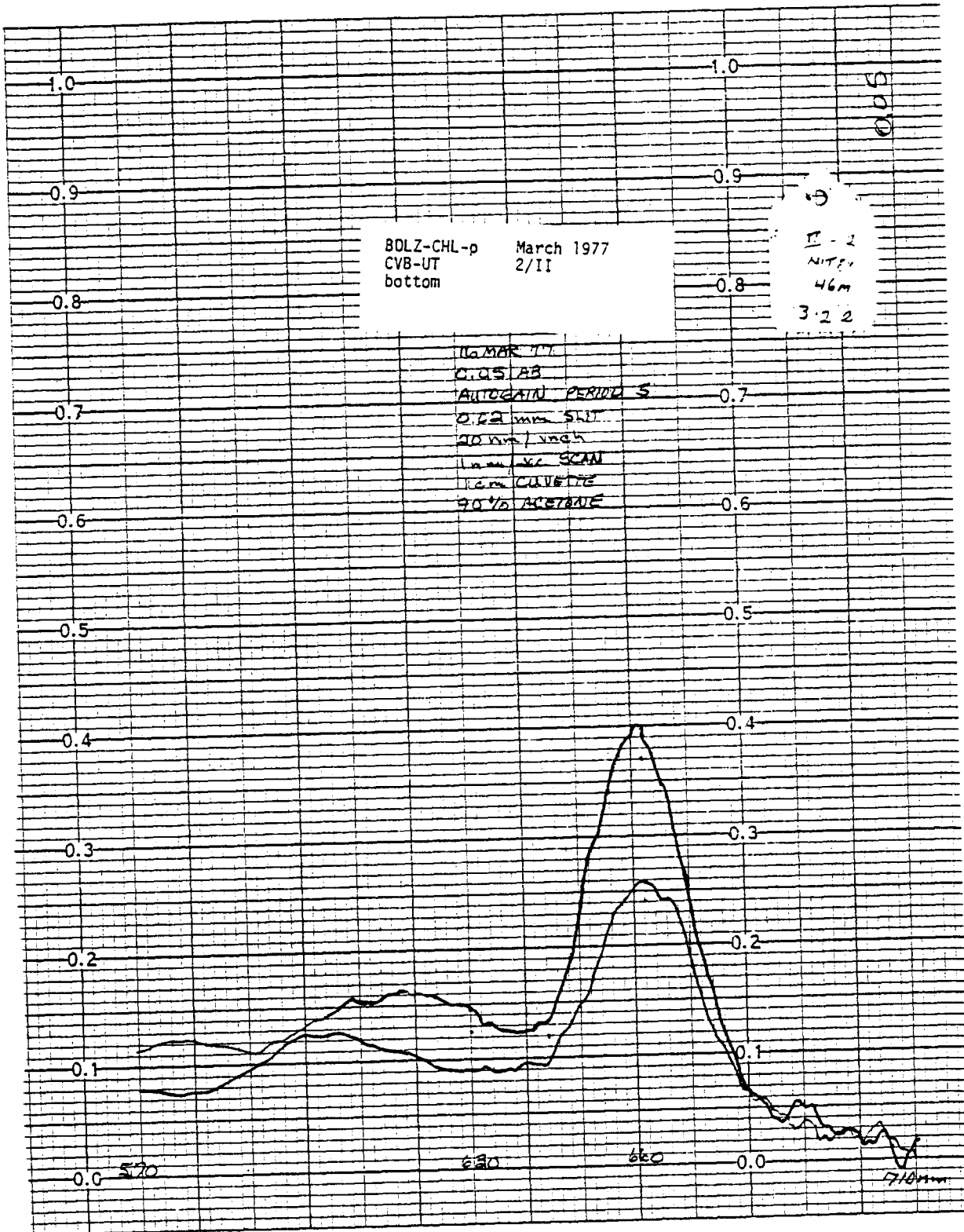








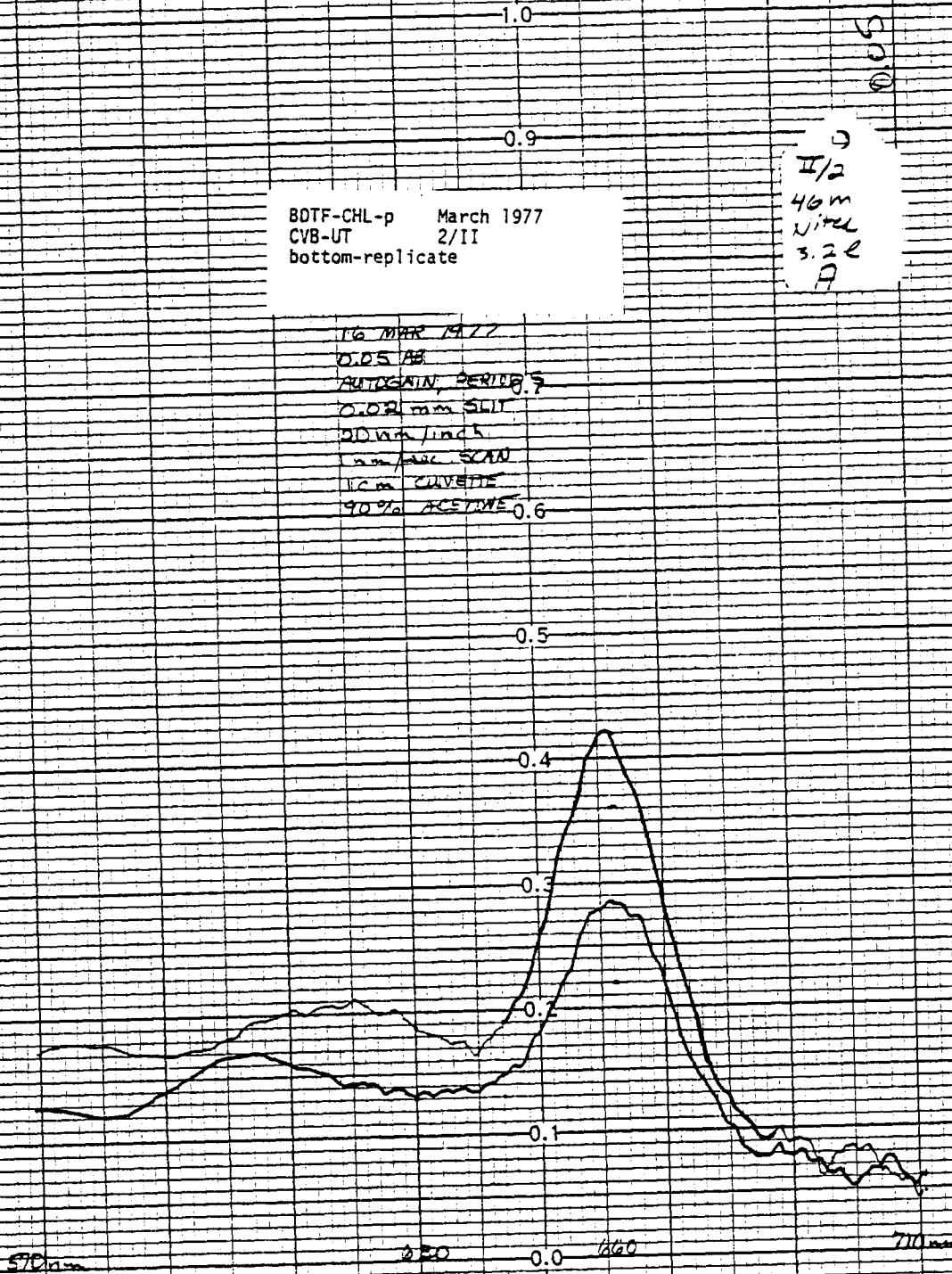


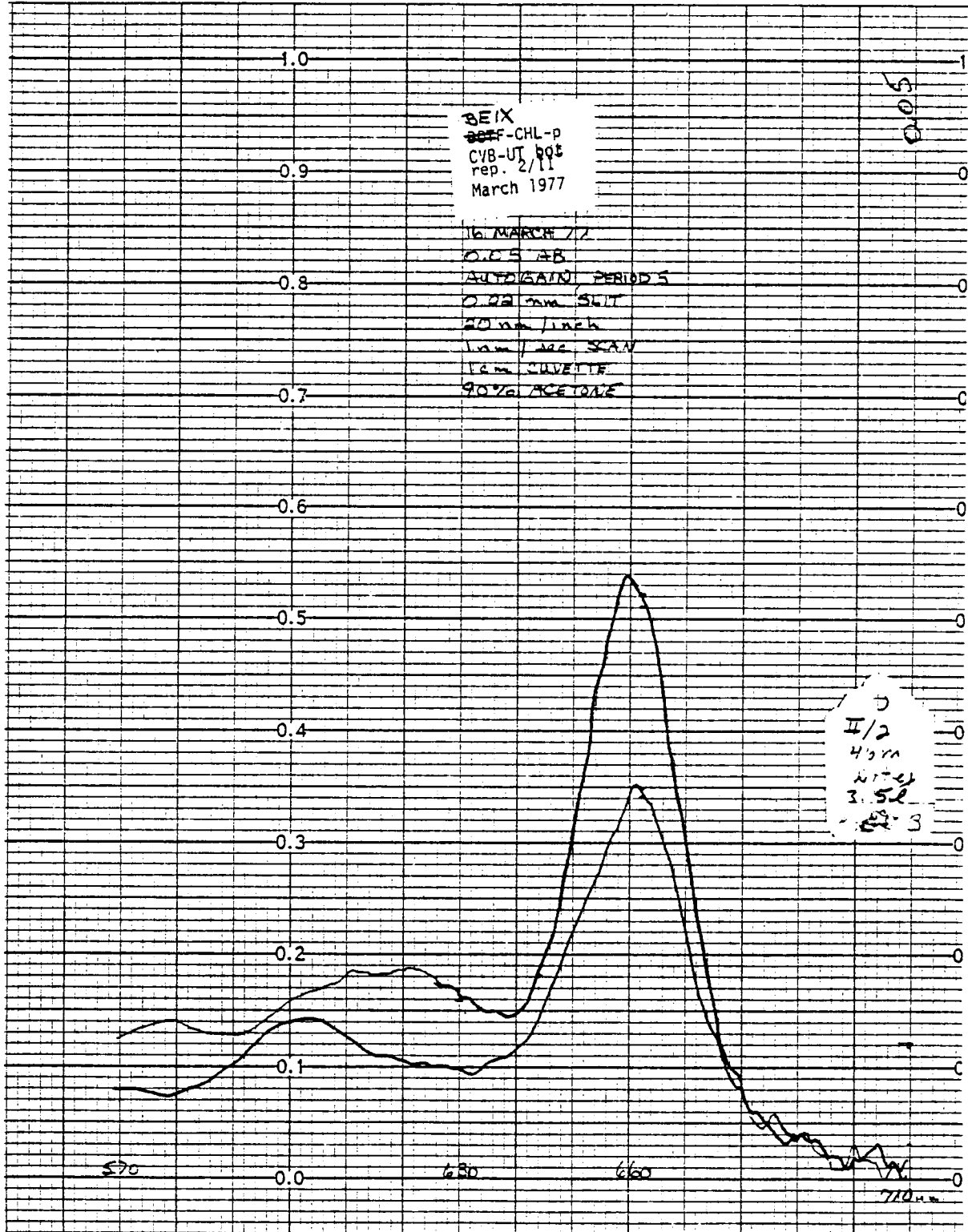


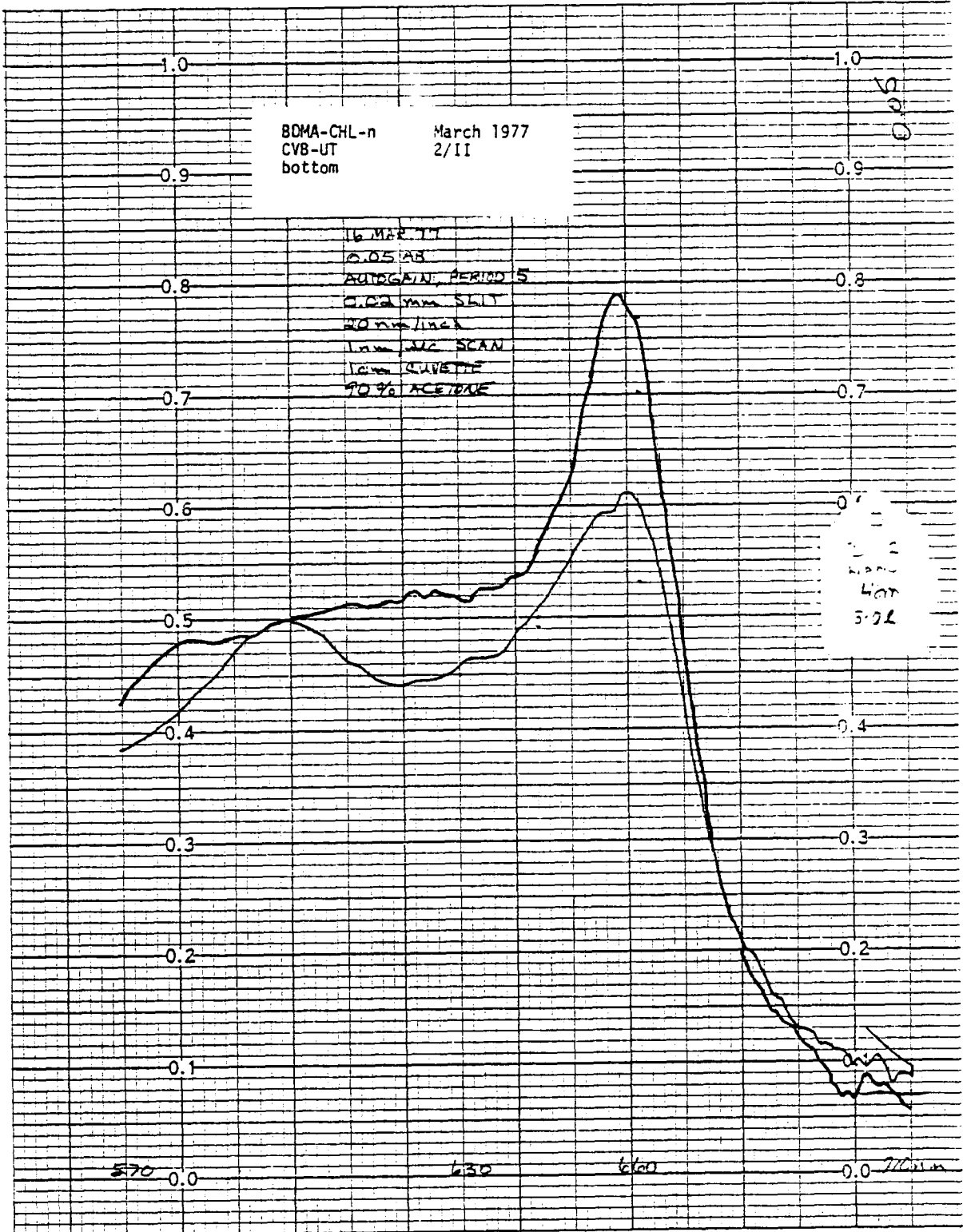
BDTF-CHL-p March 1977  
CVB-UT 2/II  
bottom-replicate

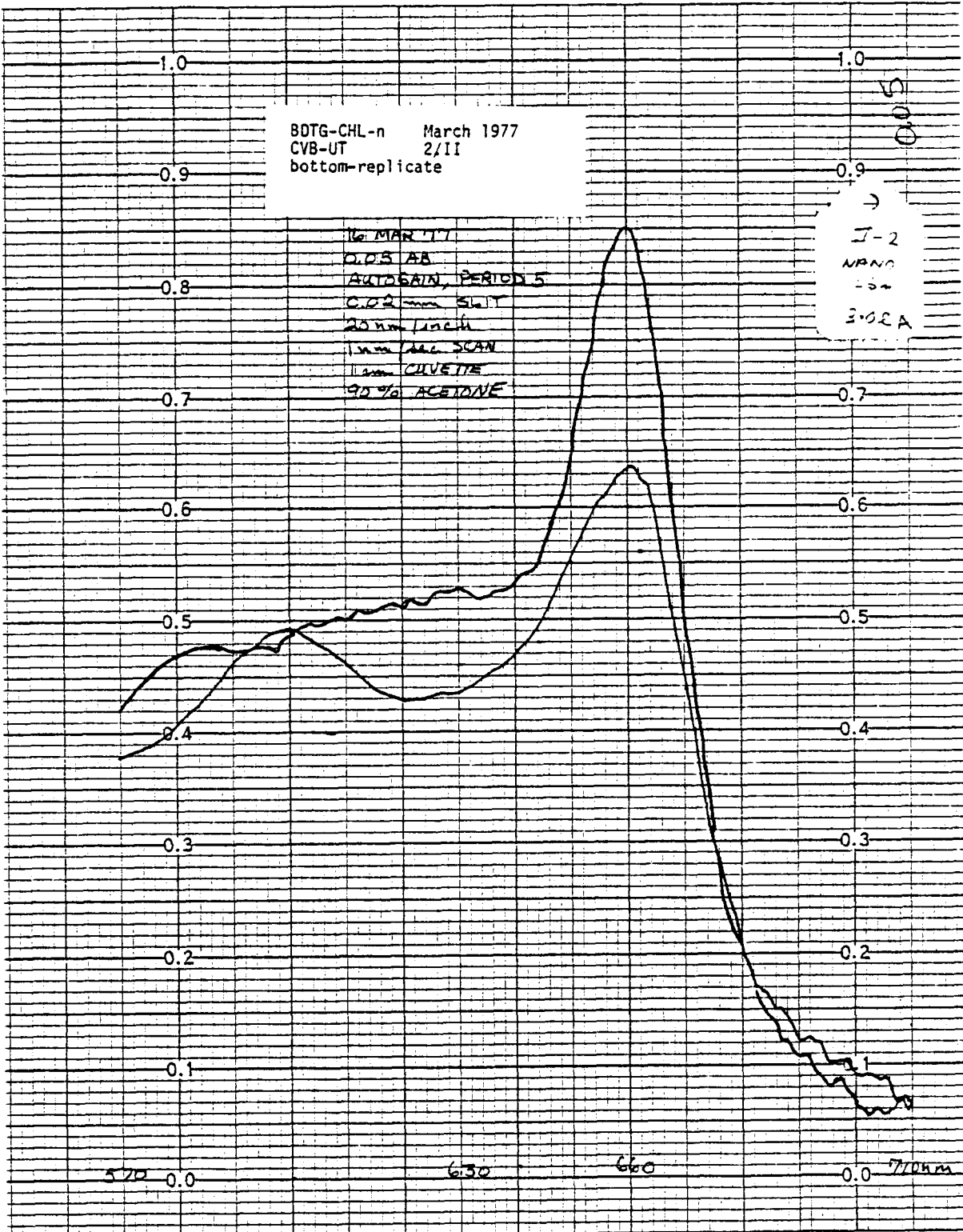
9  
II/2  
40m  
Nitel  
3.2e  
A

16 MAR 1977  
0.05 AB  
AUTO GAIN, PERIB 9  
0.02 mm SLIT  
20 um / inch  
nm / sec SCAN  
1 cm CUVETTE  
90% ACETONE 0.6

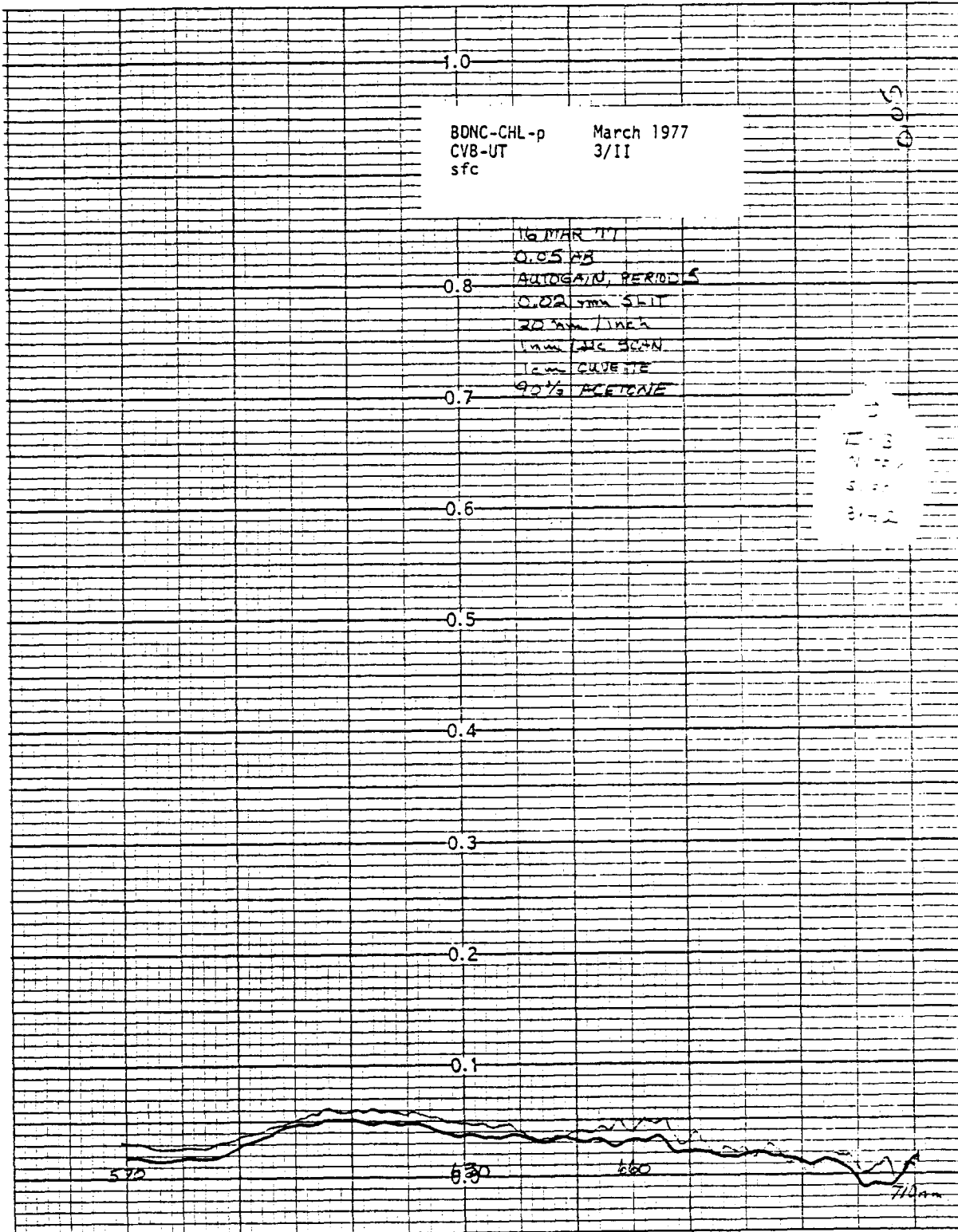


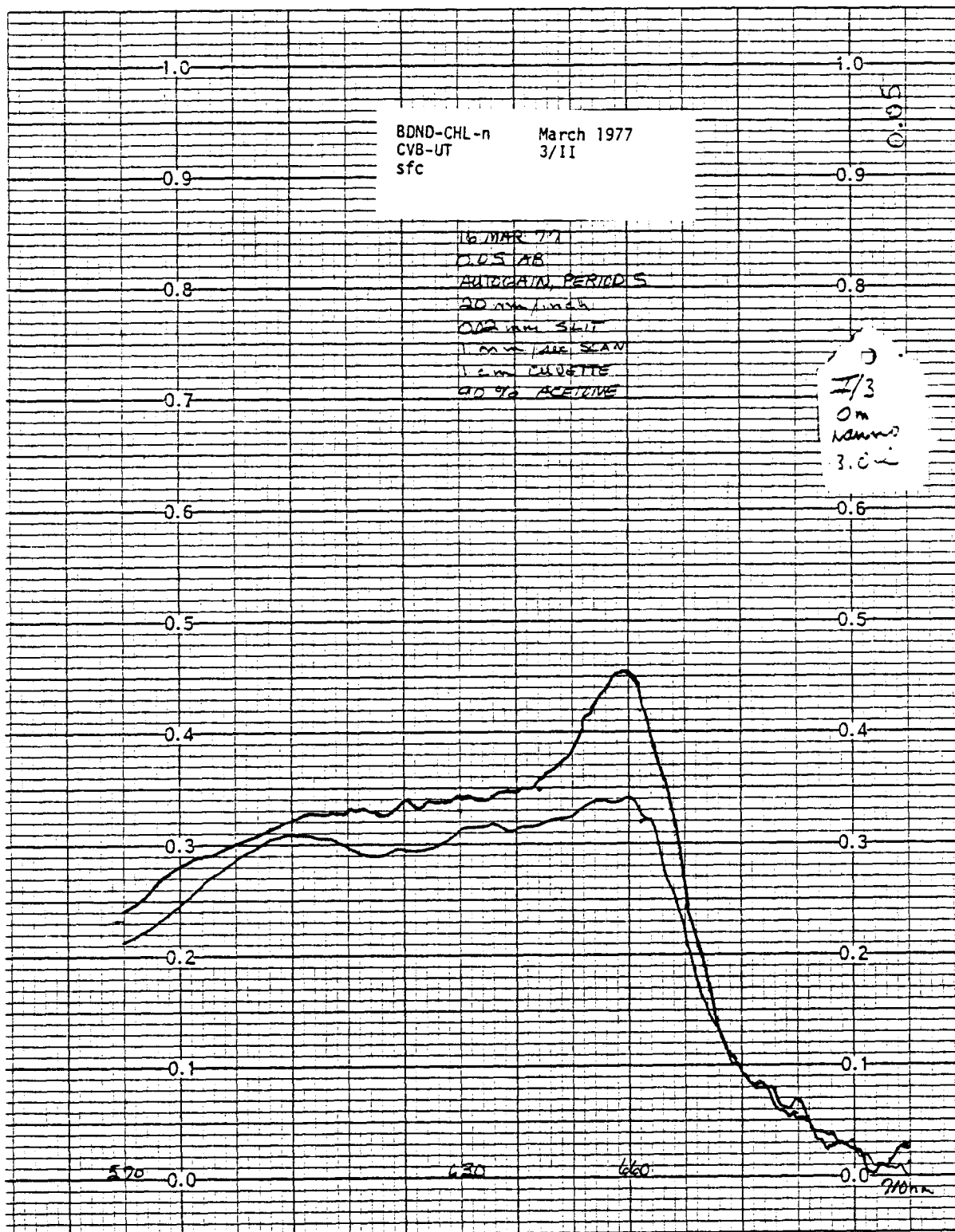












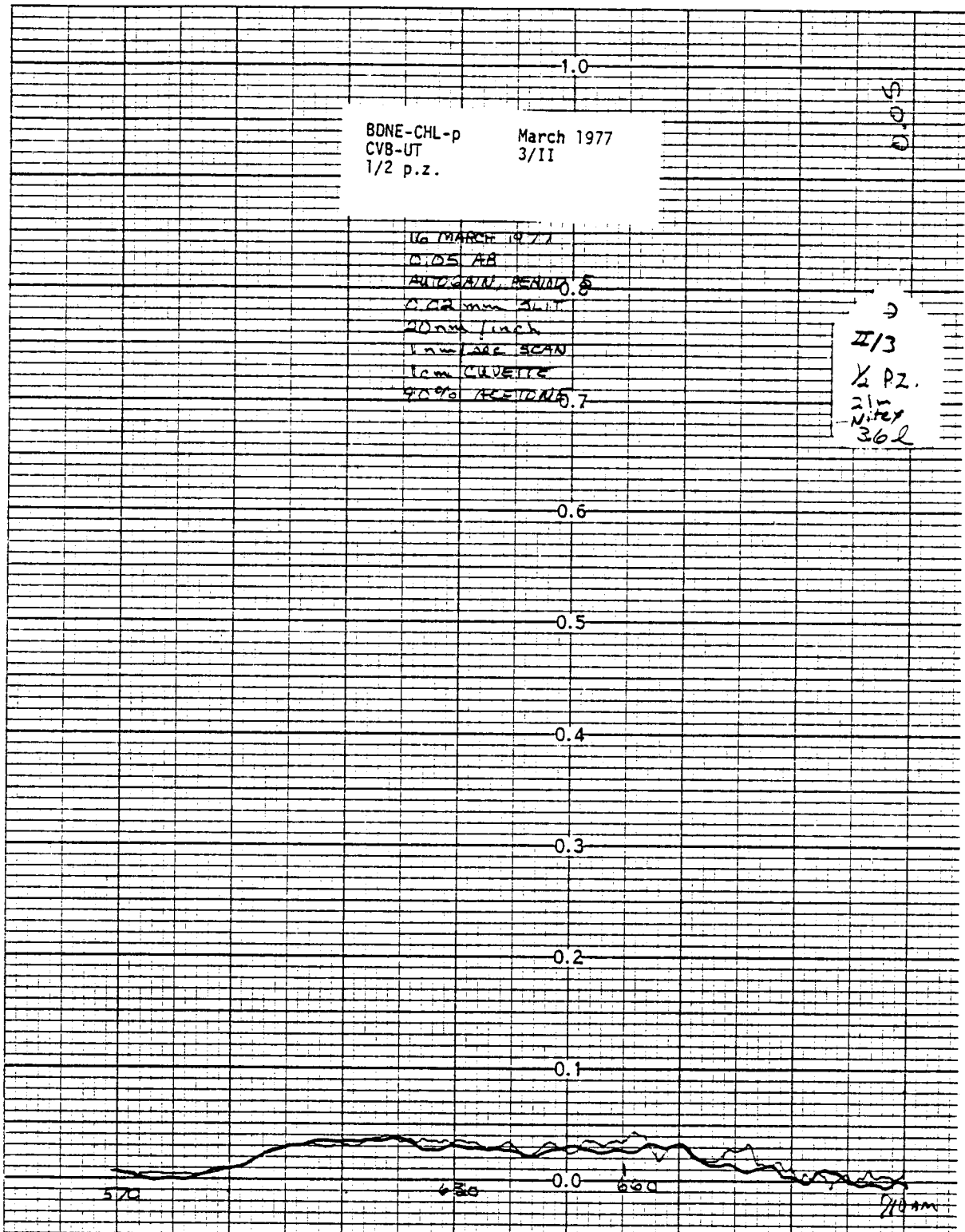


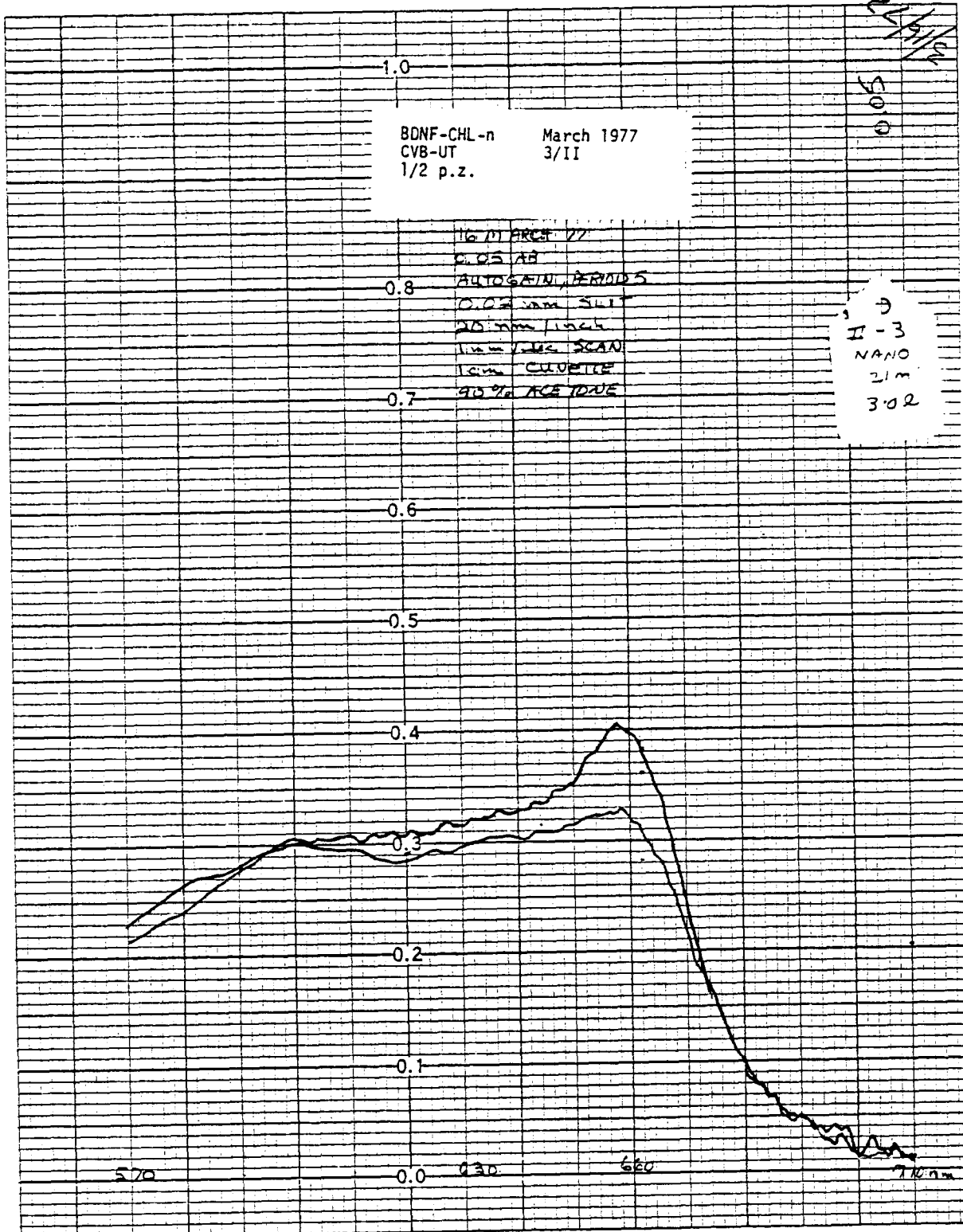
BDNE-CHL-p March 1977  
CVB-UT 3/11  
1/2 p.z.

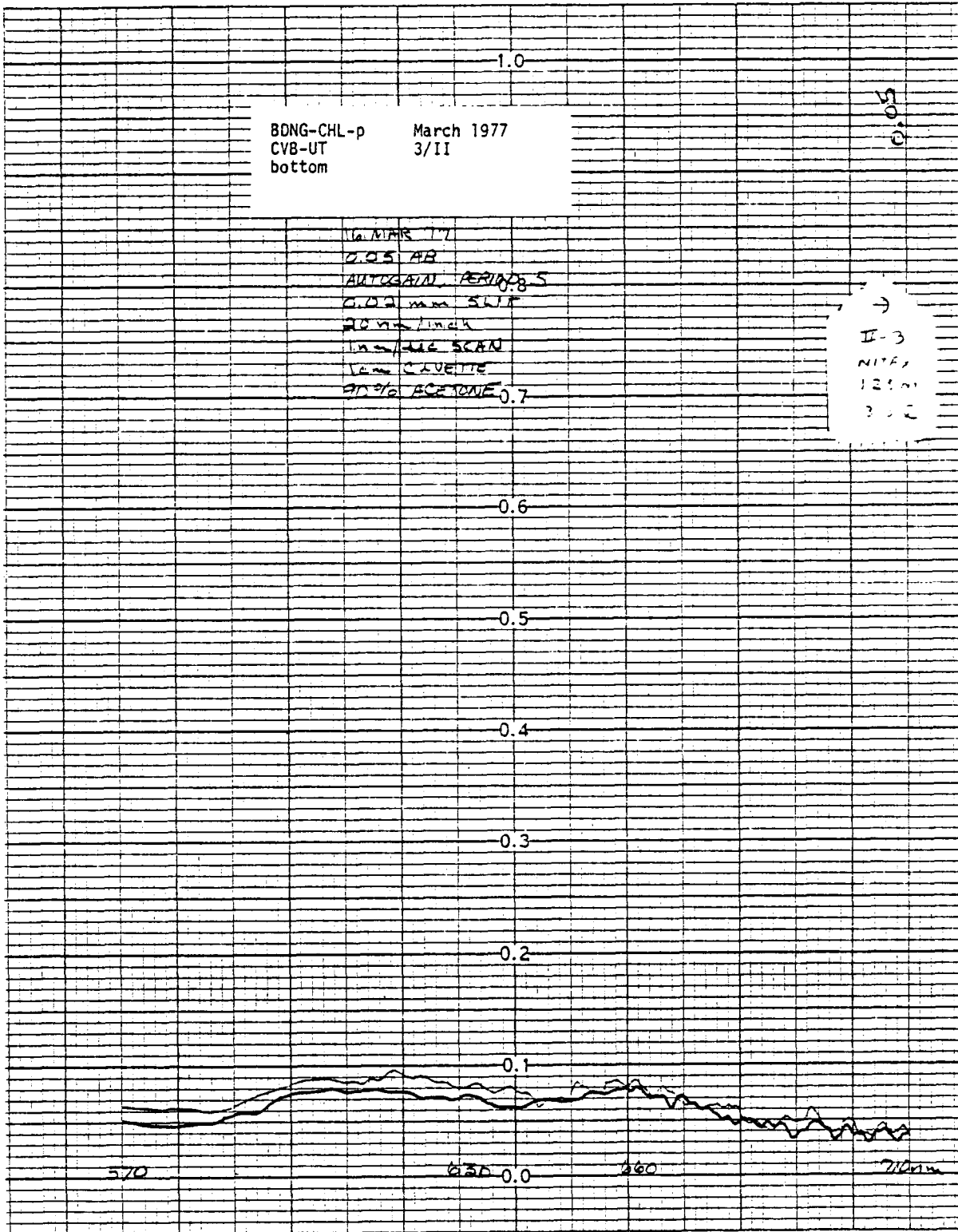
9  
0  
0

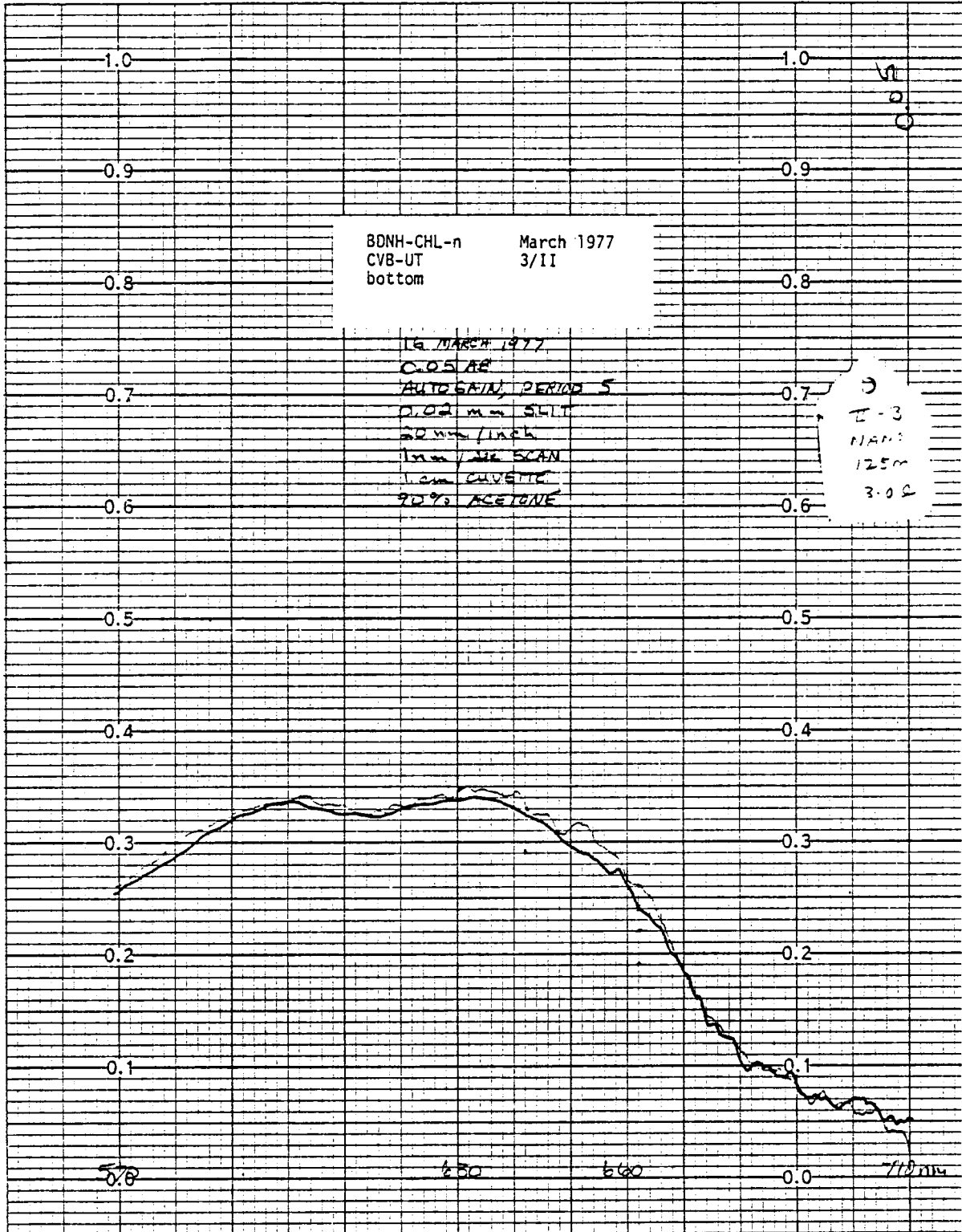
16 MARCH 1977  
0.05 AB  
AUTO GAIN, RANGE 0.5  
0.02 mm slit  
20 mm / inch  
1 mm SEC SCAN  
1 cm CUJETTE  
90% ACETONE 0.7

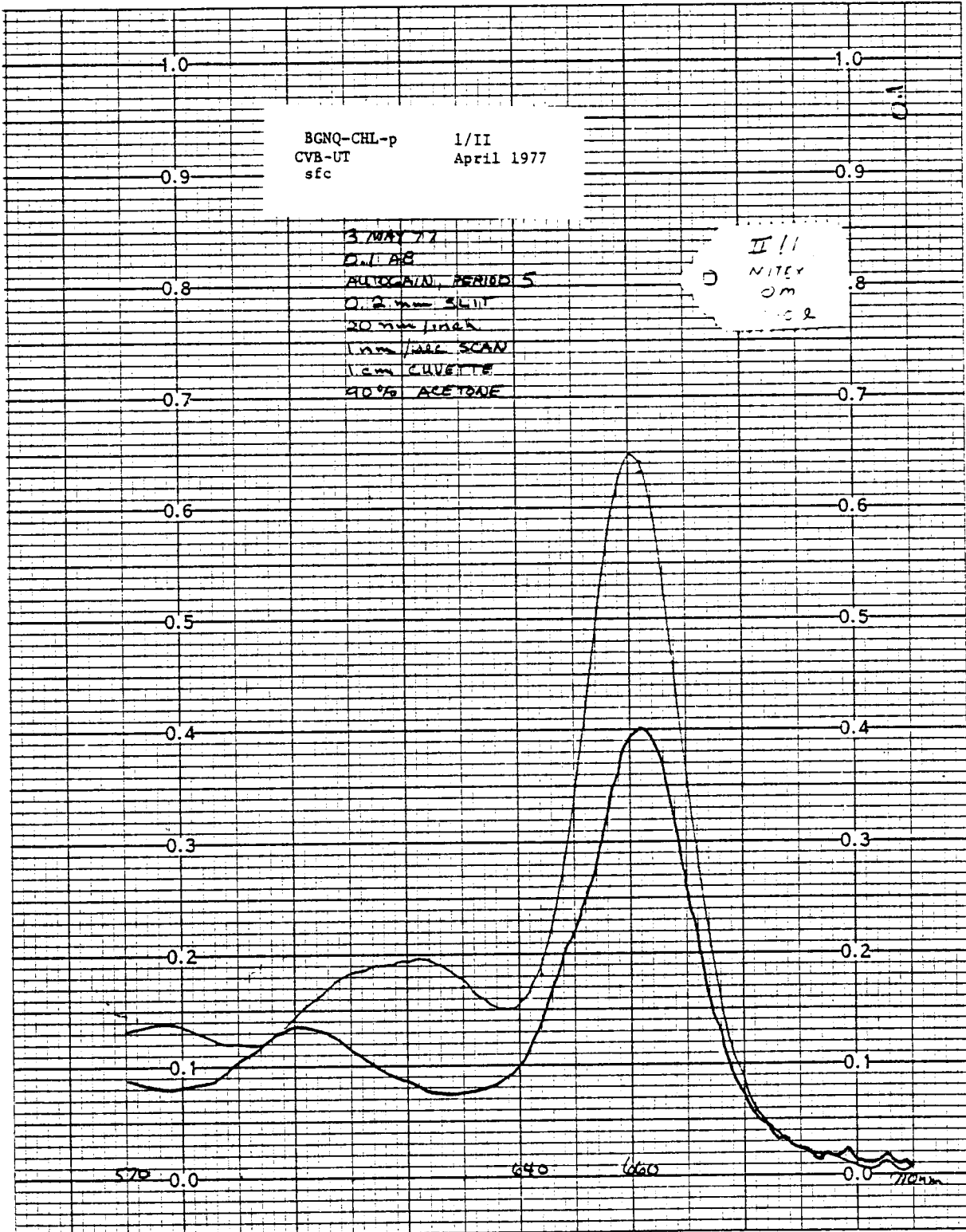
9  
2/3  
1/2 PZ.  
215  
Nitey  
362







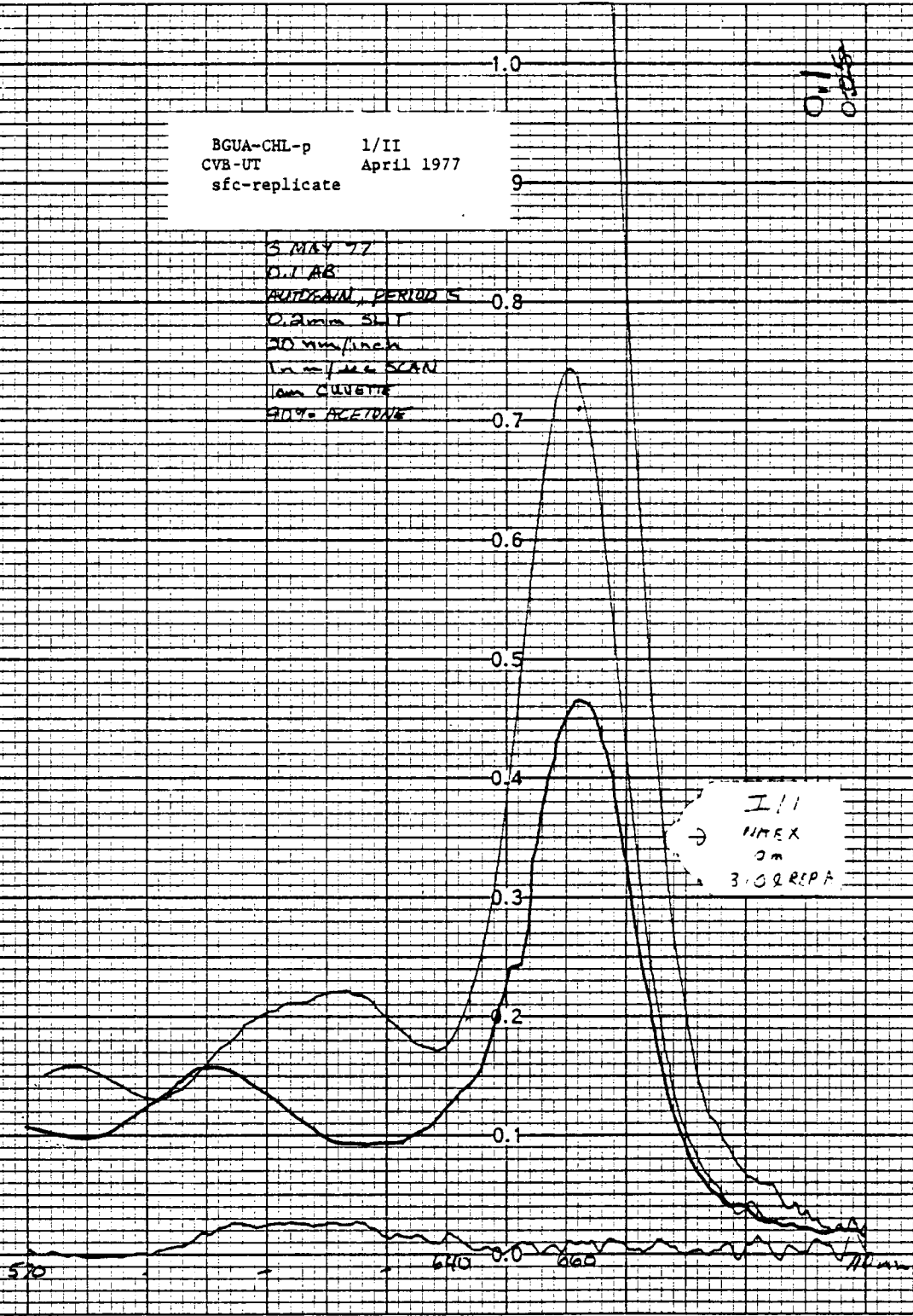




BGUA-CHL-p 1/II  
 CVB-UT April 1977  
 sfc-replicate 9

0.1  
 0.25

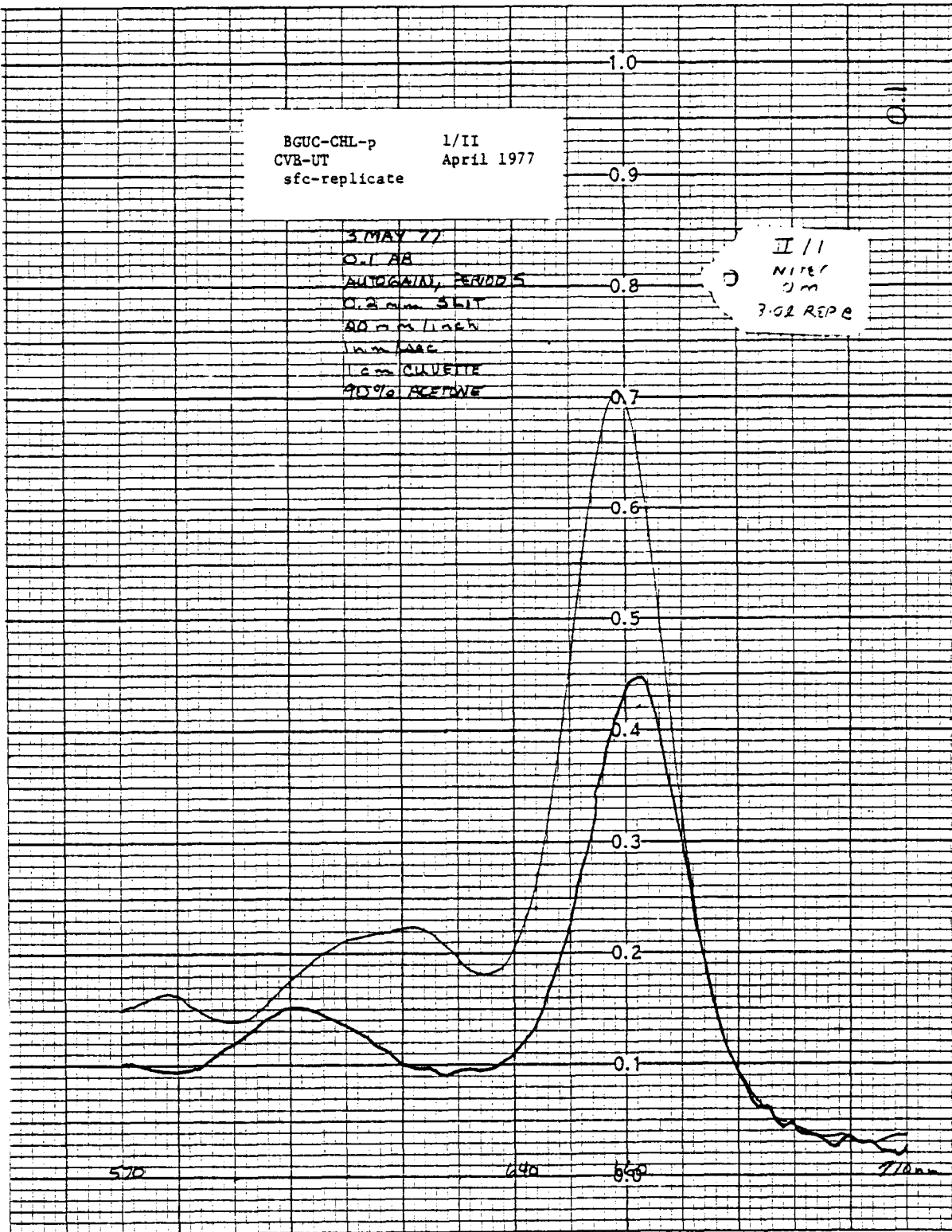
5 MAY 77  
 D.I. AB  
 AUTOGAIN, PERIOD 5  
 0.2um SLIT  
 20 mm/inch  
 1m - 1 sec SCAN  
 1cm CUVEtte  
 20% PRETONE

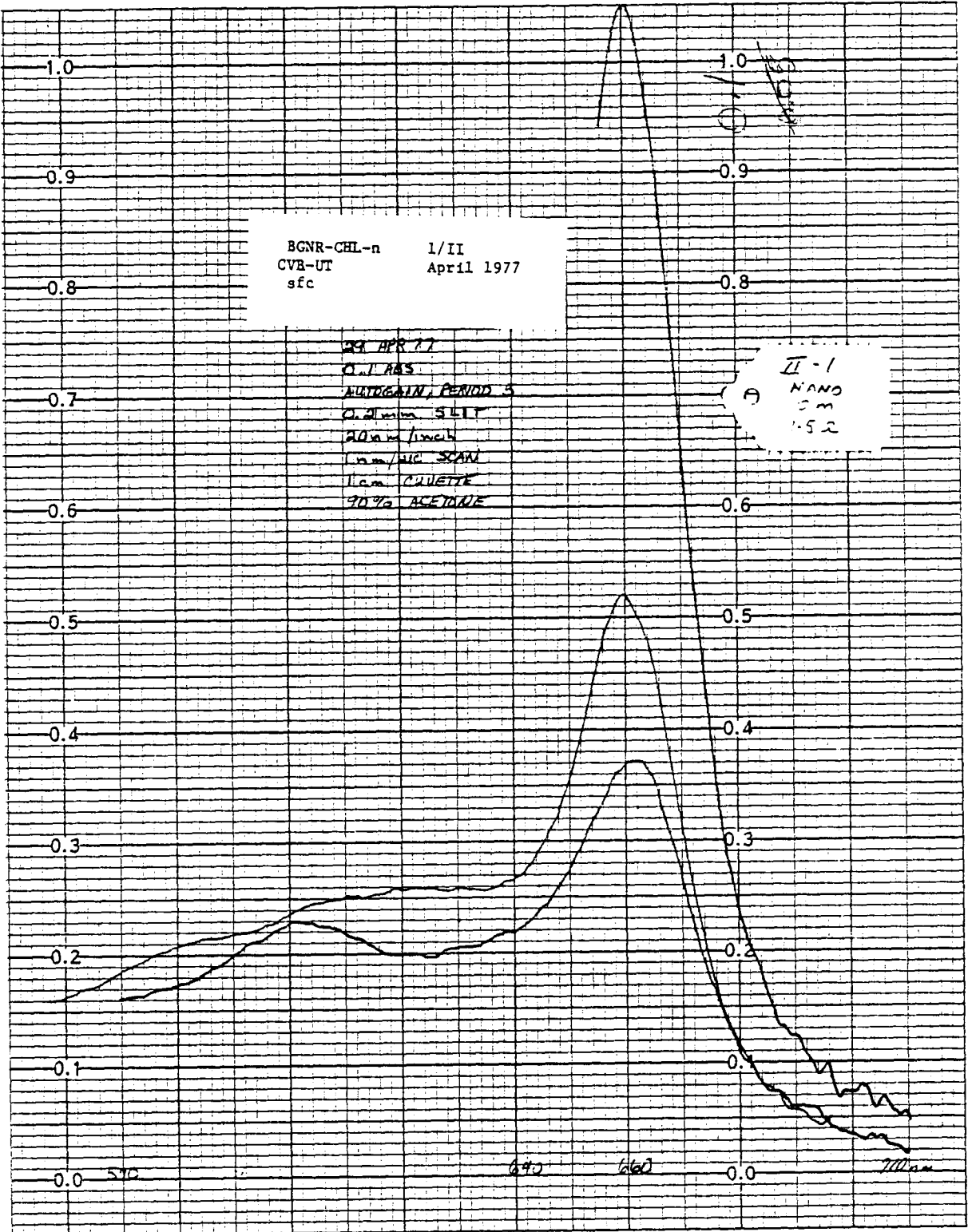


BGUC-CHL-p 1/II  
CVR-UT April 1977  
sfc-replicate

3 MAY 77  
0.1 AB  
AUTOGAIN, PERIODS  
0.2 cm SLIT  
40 cm LAMP  
1 cm MAG  
1 cm CUVETTE  
90% ACETONE

II / I  
NIPER  
3m  
7.02 REP B



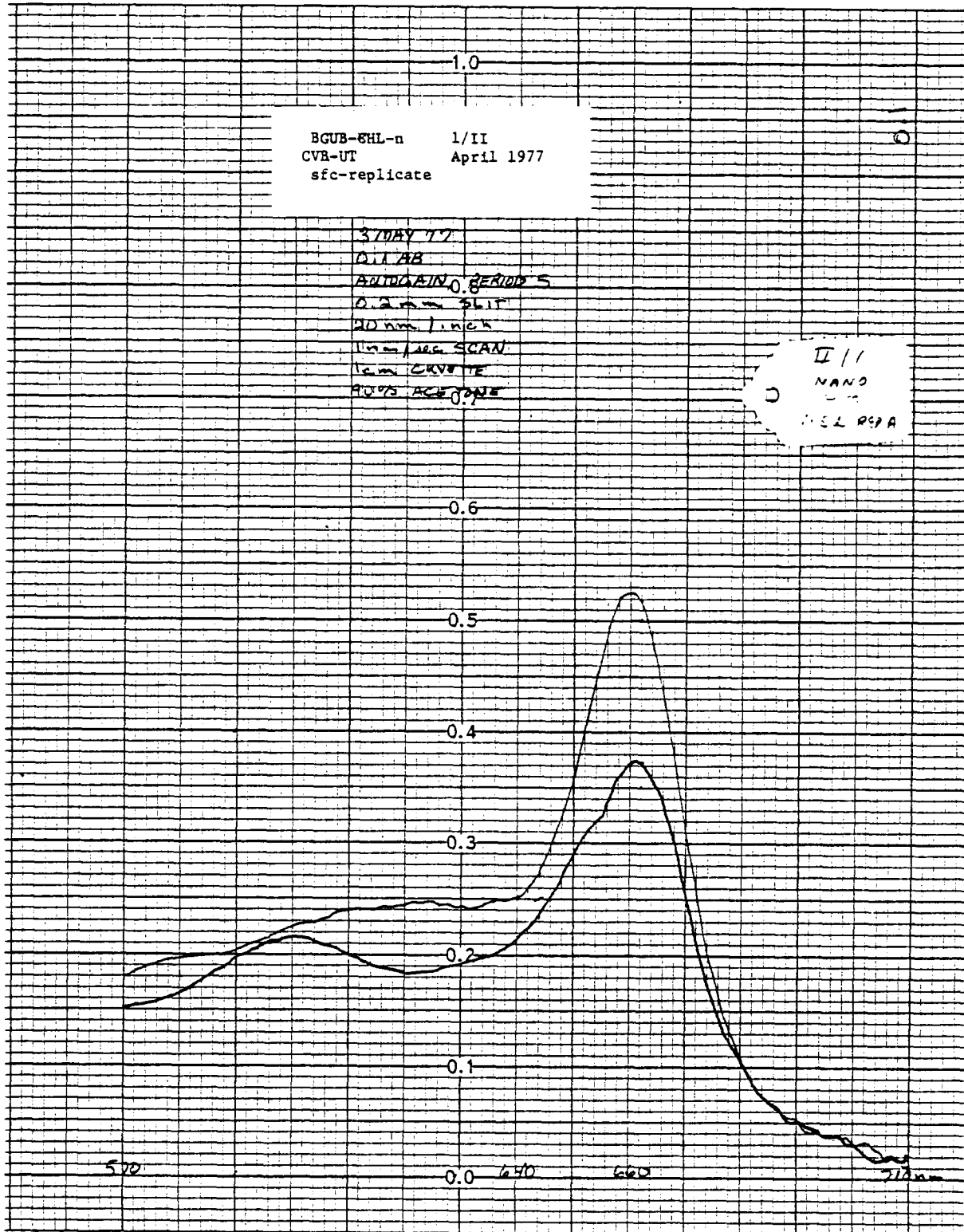


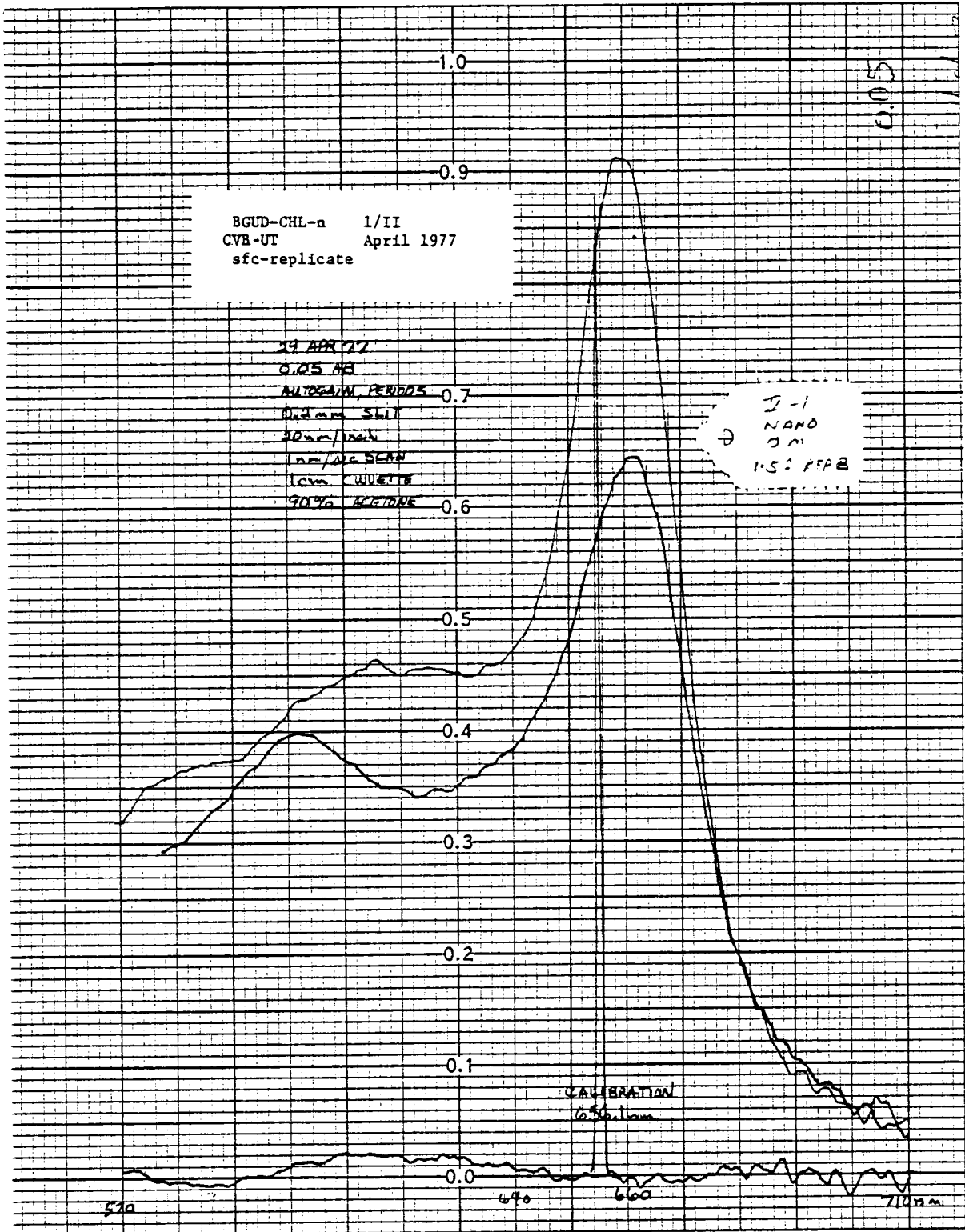


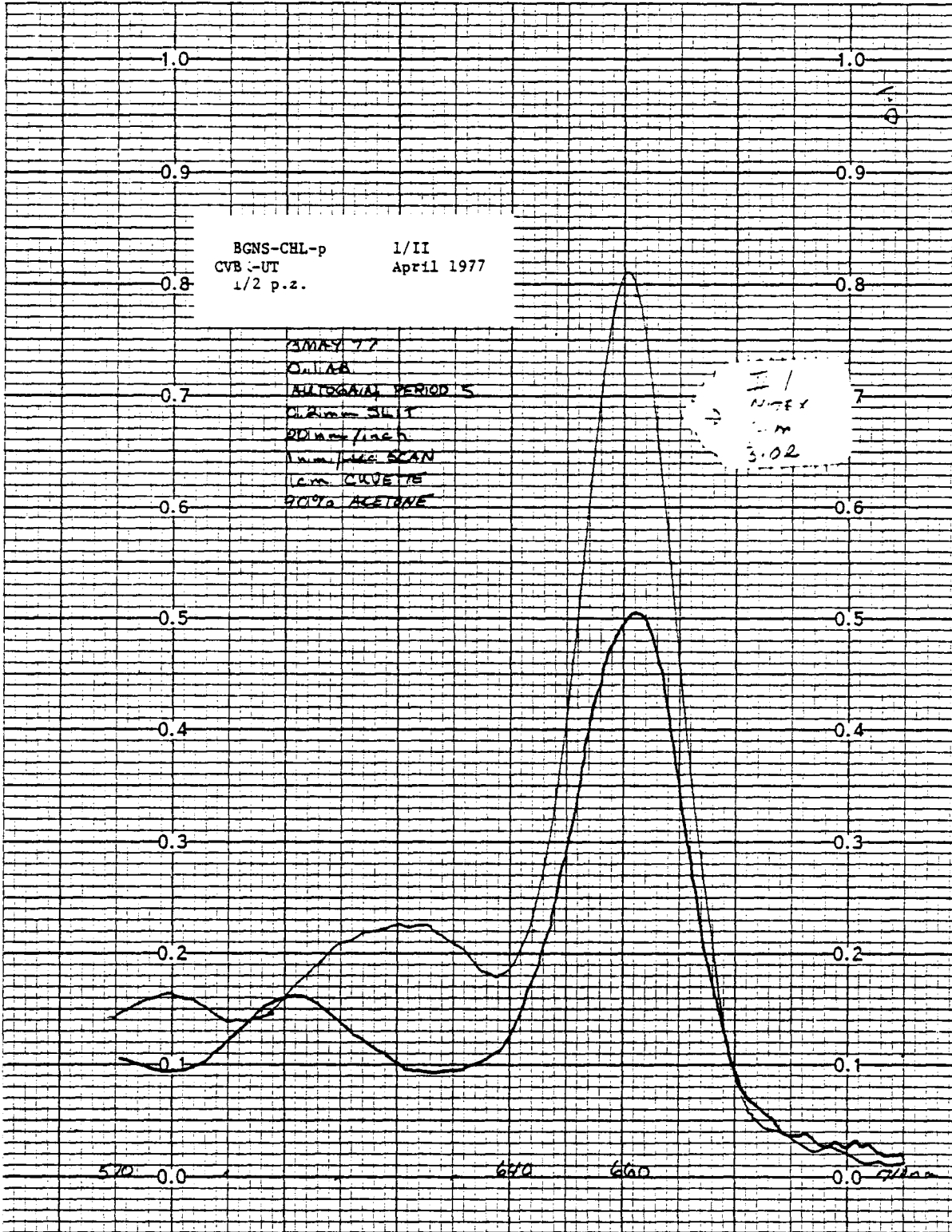
BCUB-SHL-n 1/II  
CVB-UT April 1977  
sfc-replicate

3 DAY 17  
D.I. AB  
AUTODAIN 0 PERIOD 5  
0.2 mm SLIT  
20 nm / inch  
1000 / sec SCAN  
1 cm CRVITE  
9000 ACETONE

II / I  
NANO  
SCL RCPA



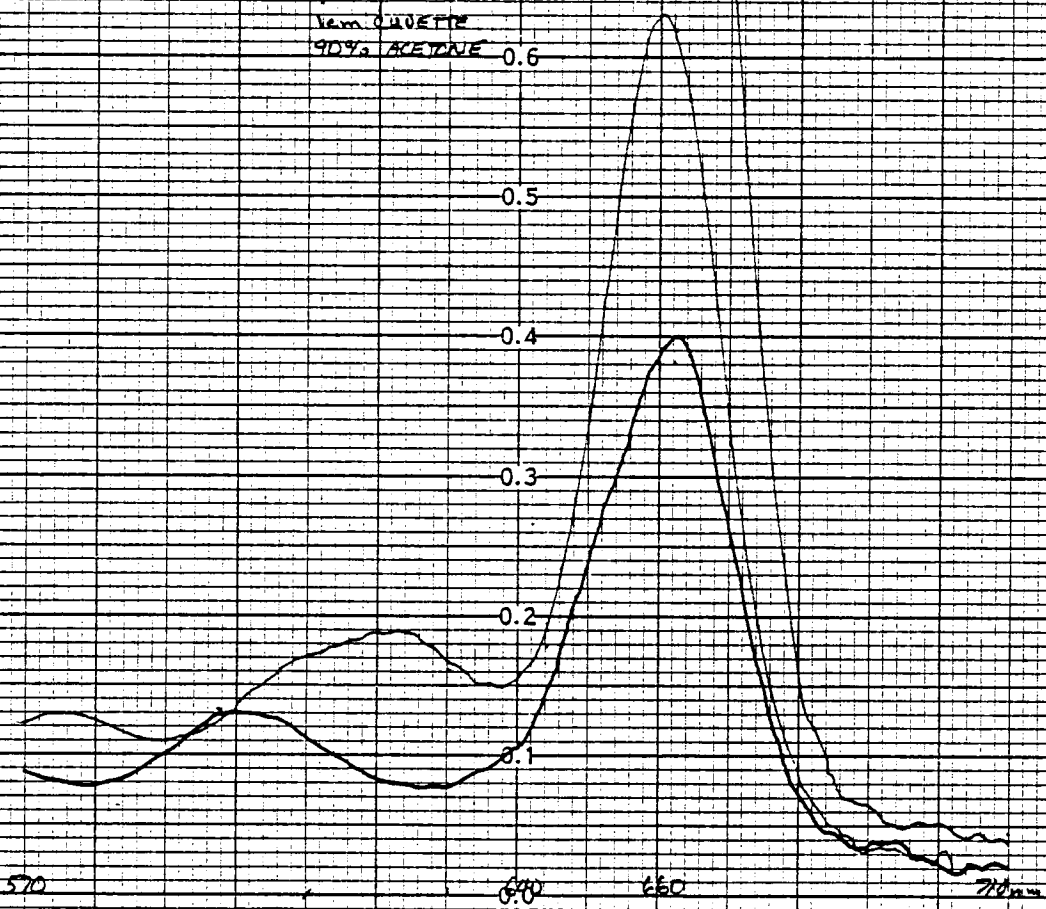


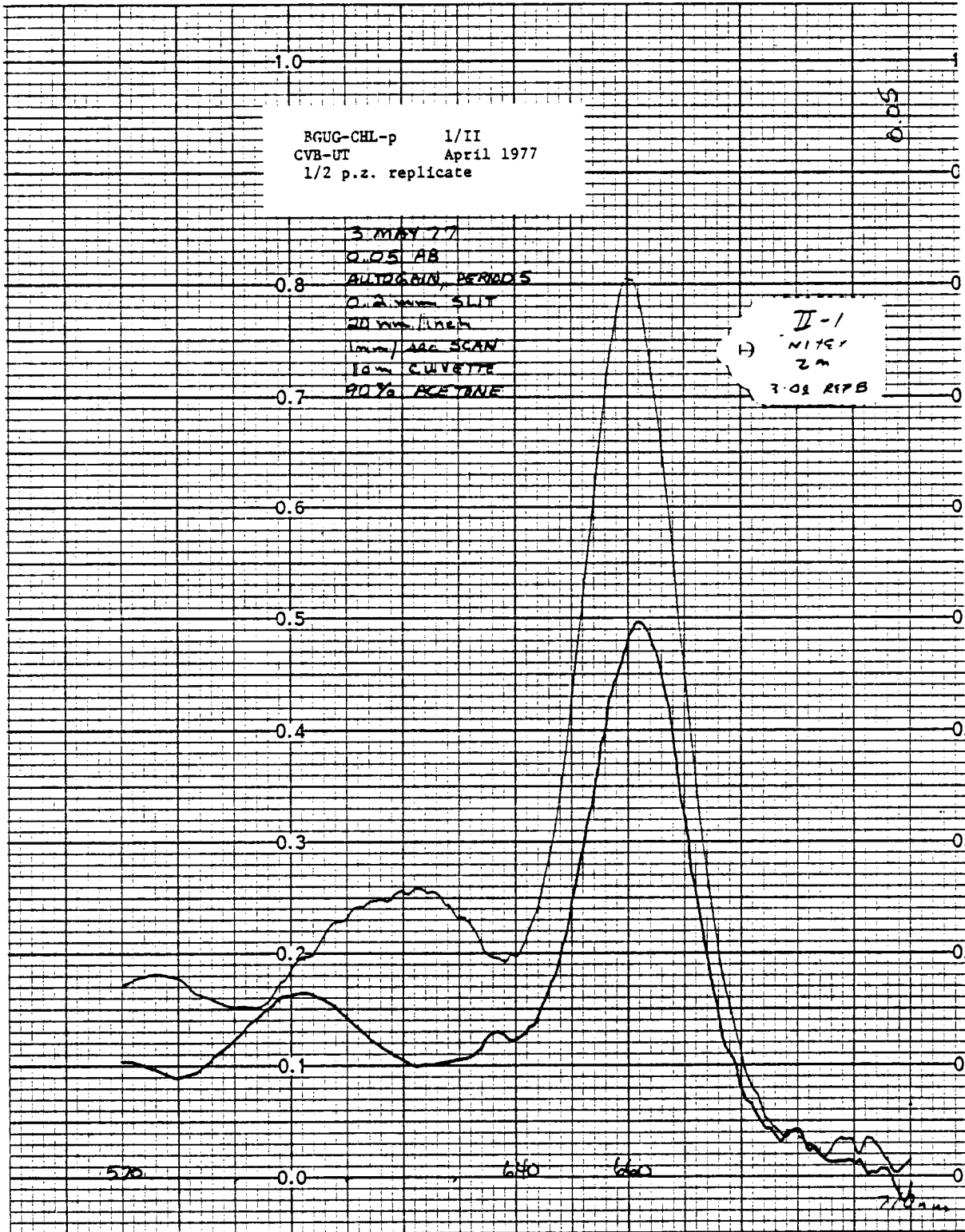


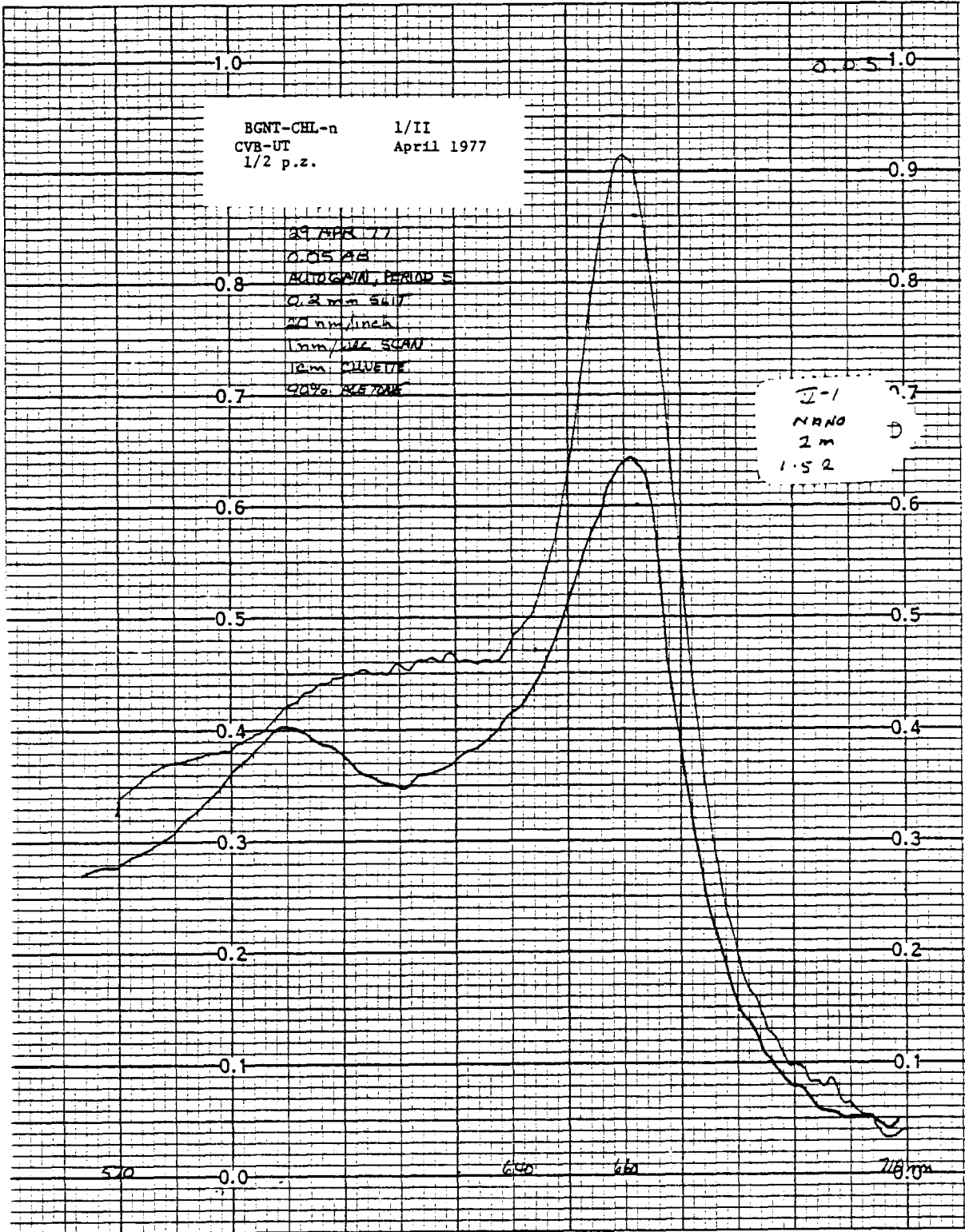
BGUE-CHL-p 1/11  
 CVB-UT April 1977  
 1/2 p.z. replicate

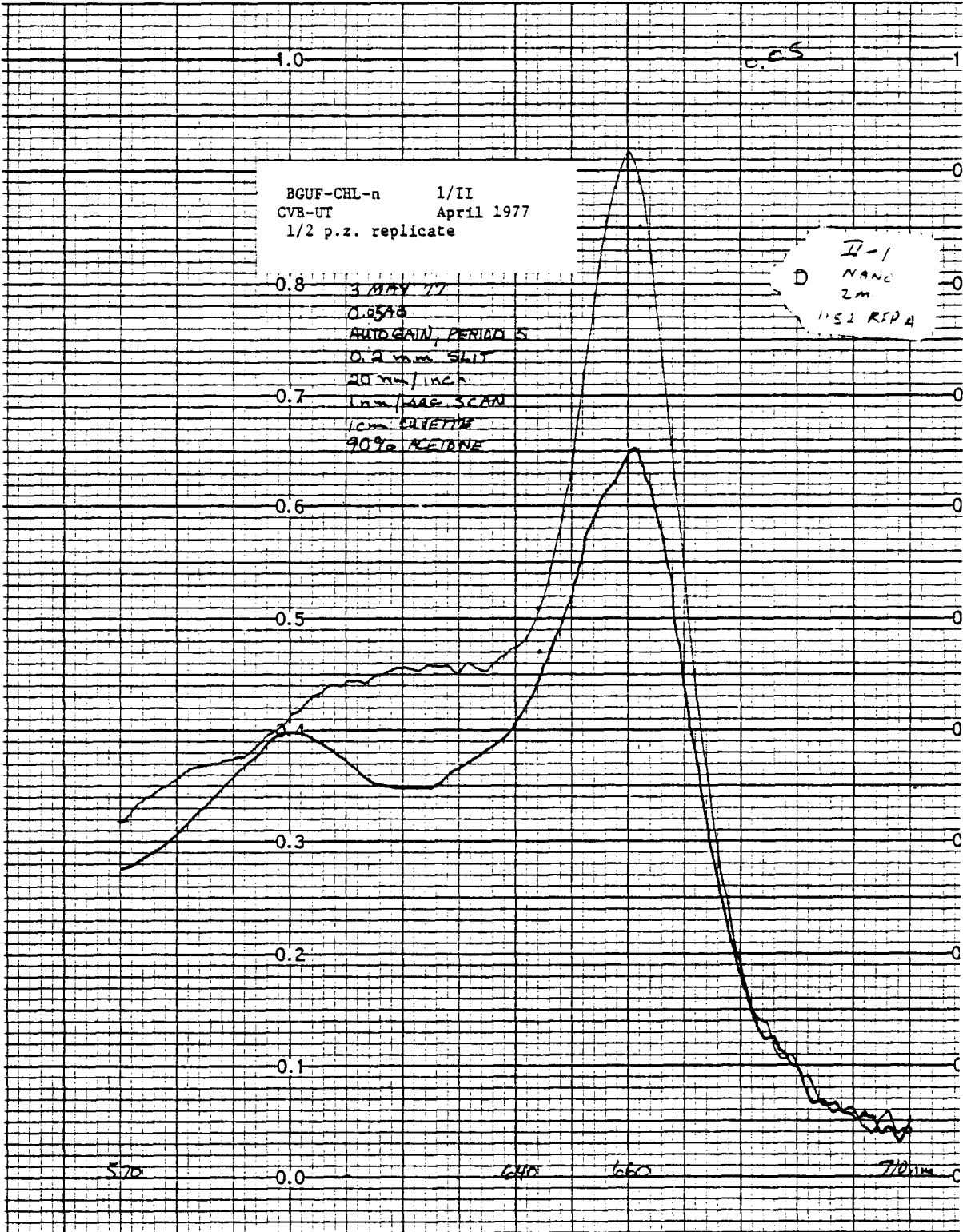
III  
 NITEX  
 Zr  
 3.52 KIPPA

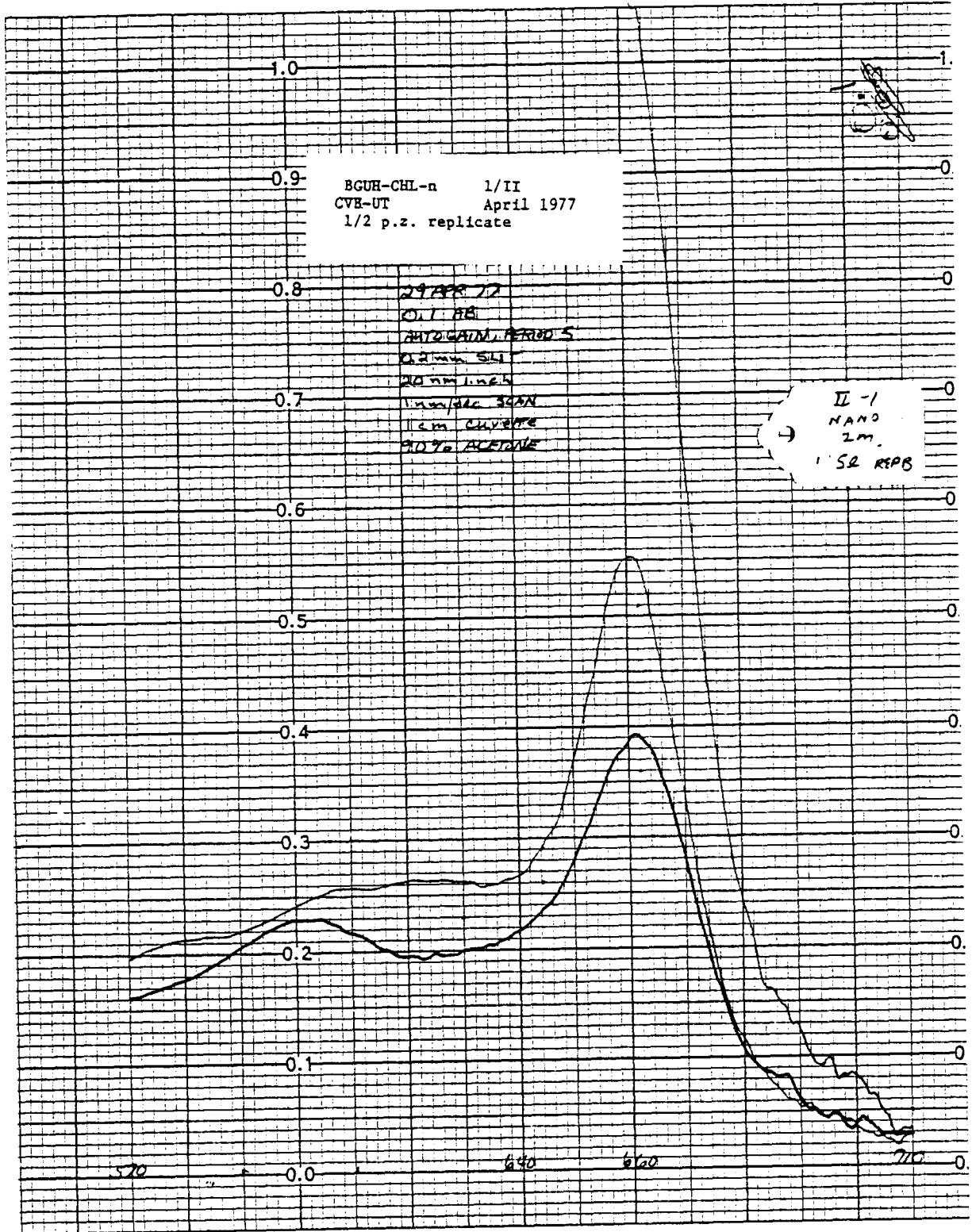
3 MAY 77  
 O.T.A.B.  
 AUTOGAIN PERIOD 7.5  
 0.2 mm SLIT  
 20 mm LINC  
 1 mm LINC SCAN  
 Vena QUETTE  
 90% ACETONE



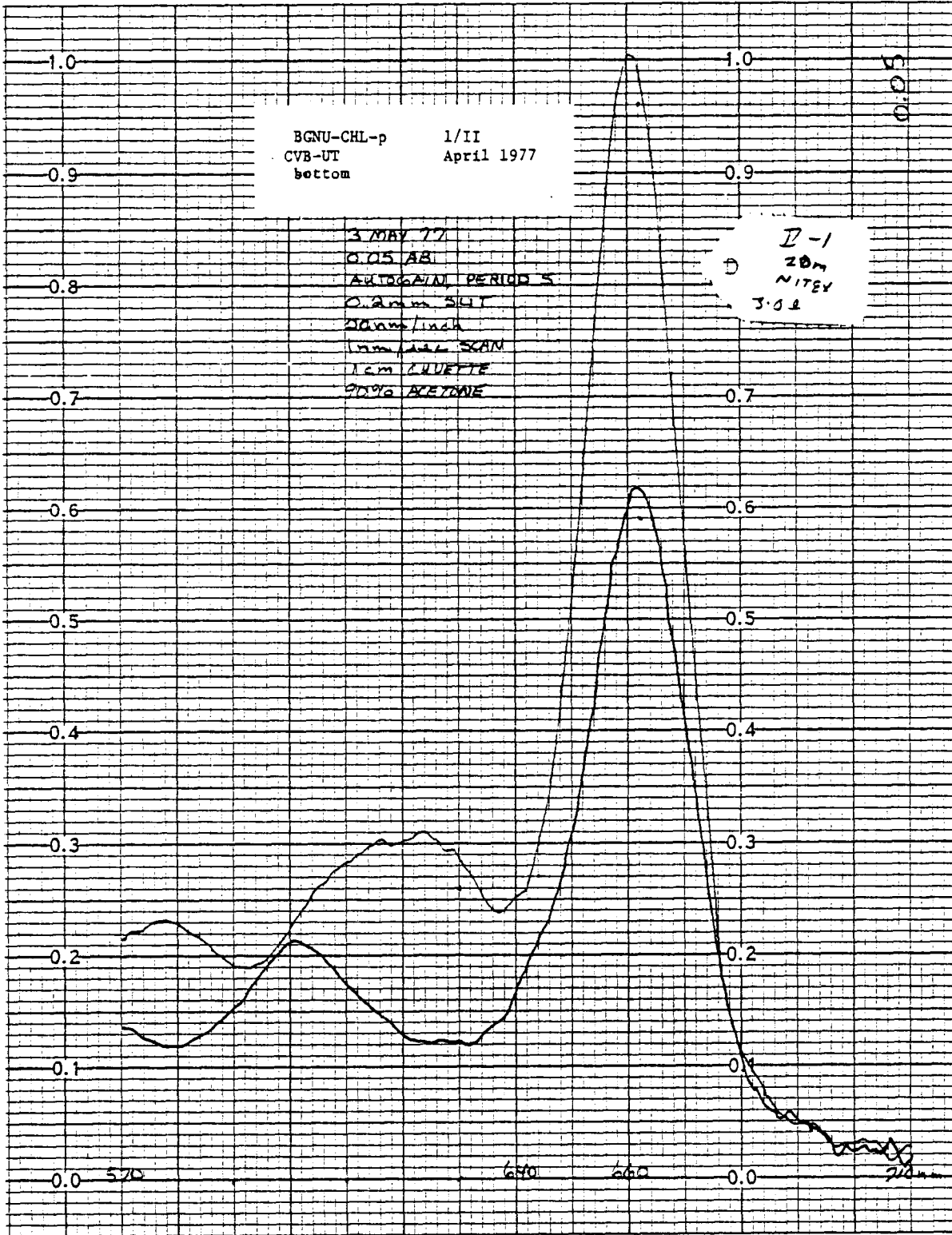


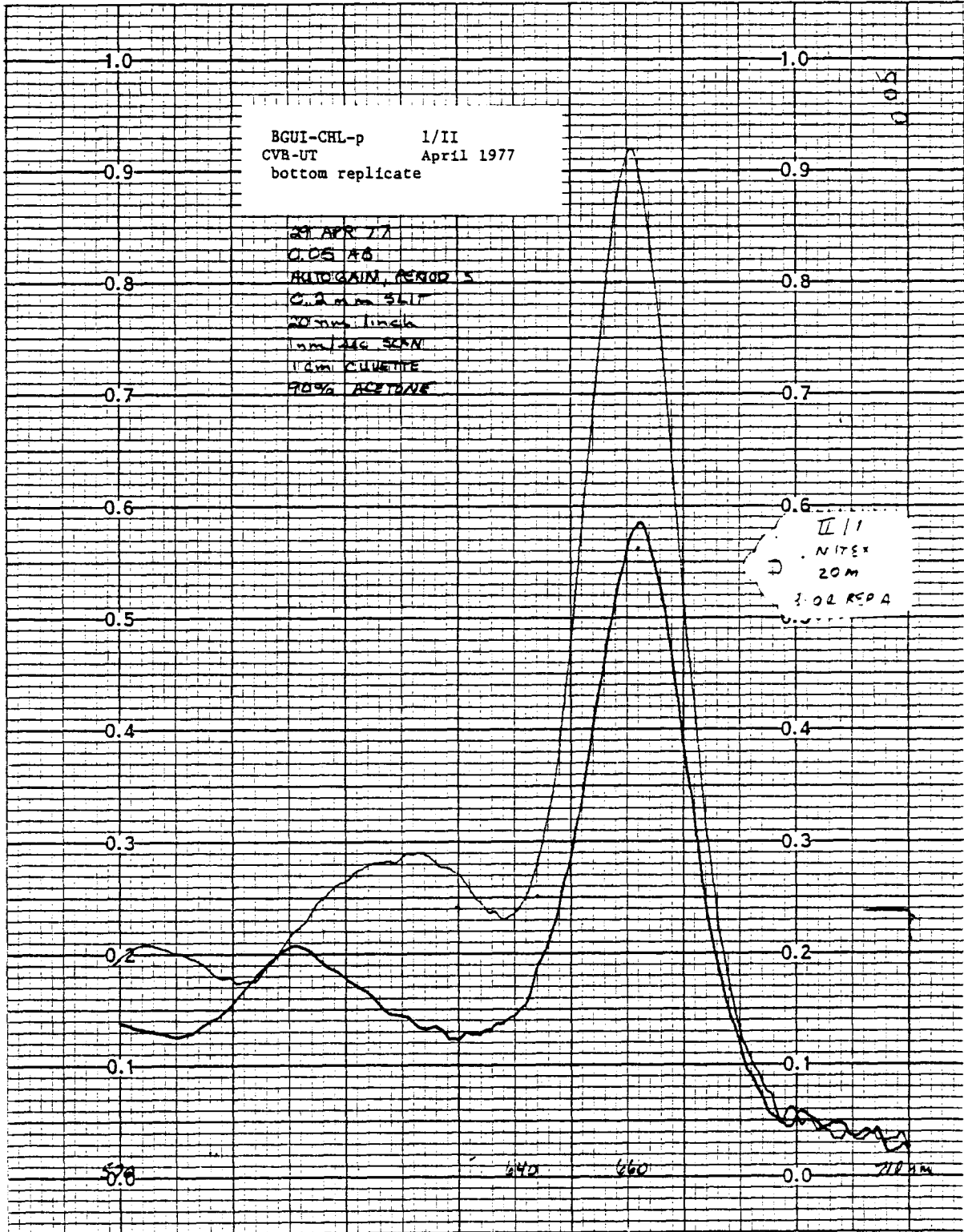








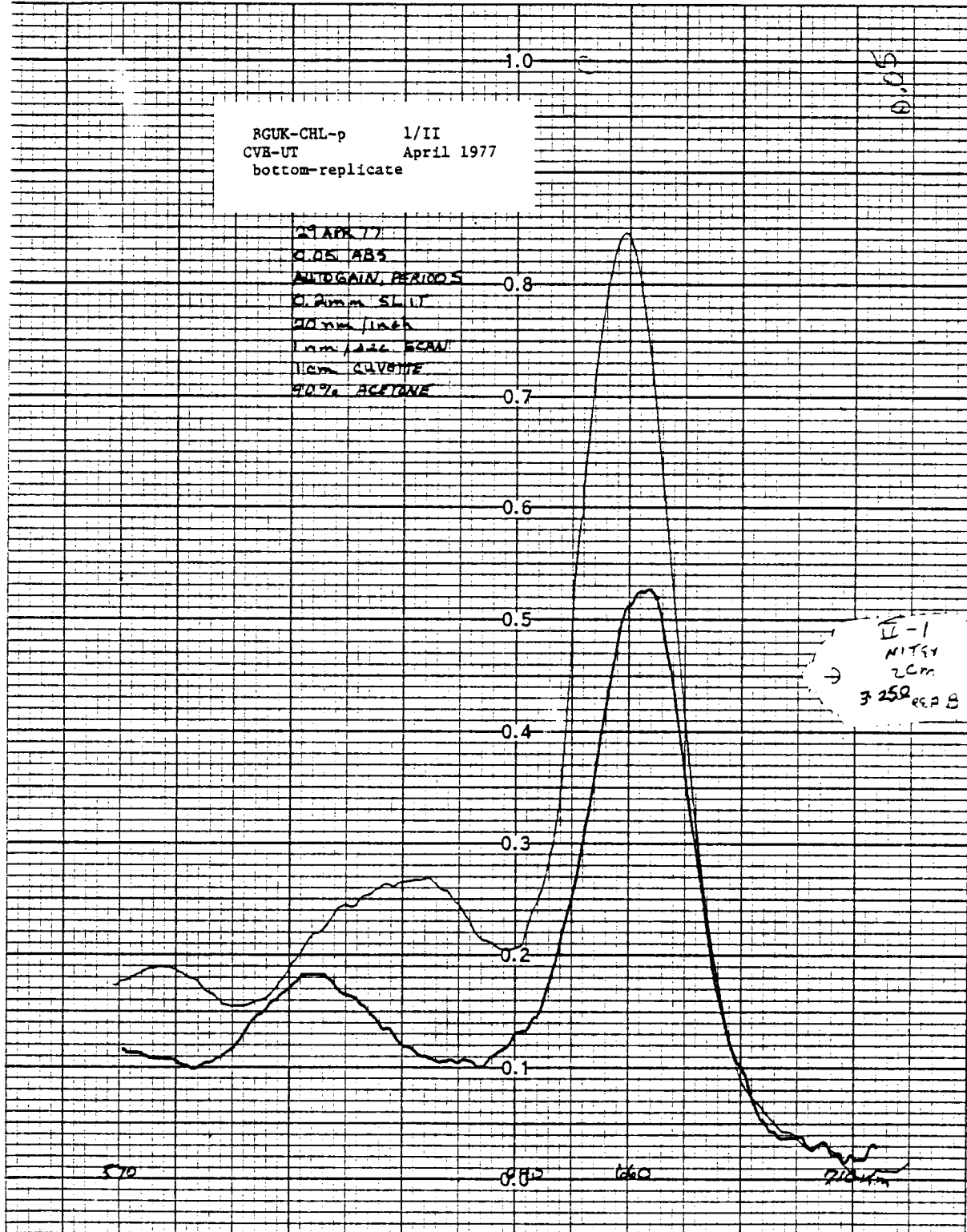




RGUK-CHL-p 1/II  
CVB-UT April 1977  
bottom-replicate

0.05

29 APR 77  
0.05 ABS  
AUTOGAIN PERIODS  
0.5um SLIT  
40 mm / inch  
1 cm / sec SCAN  
1 cm CUVEITE  
40% ACETONE



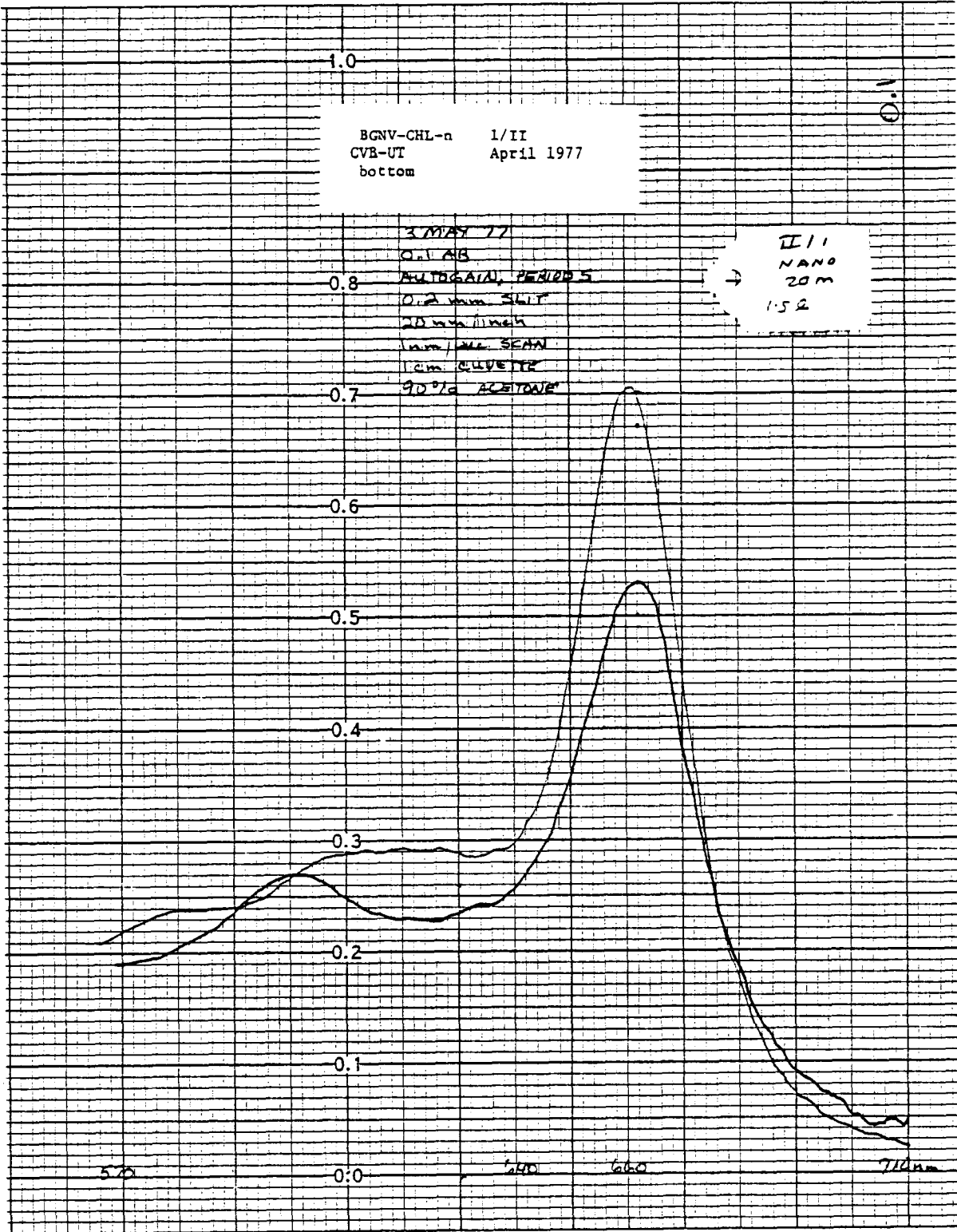
II-1  
NITR  
2cm  
3 250 REP B

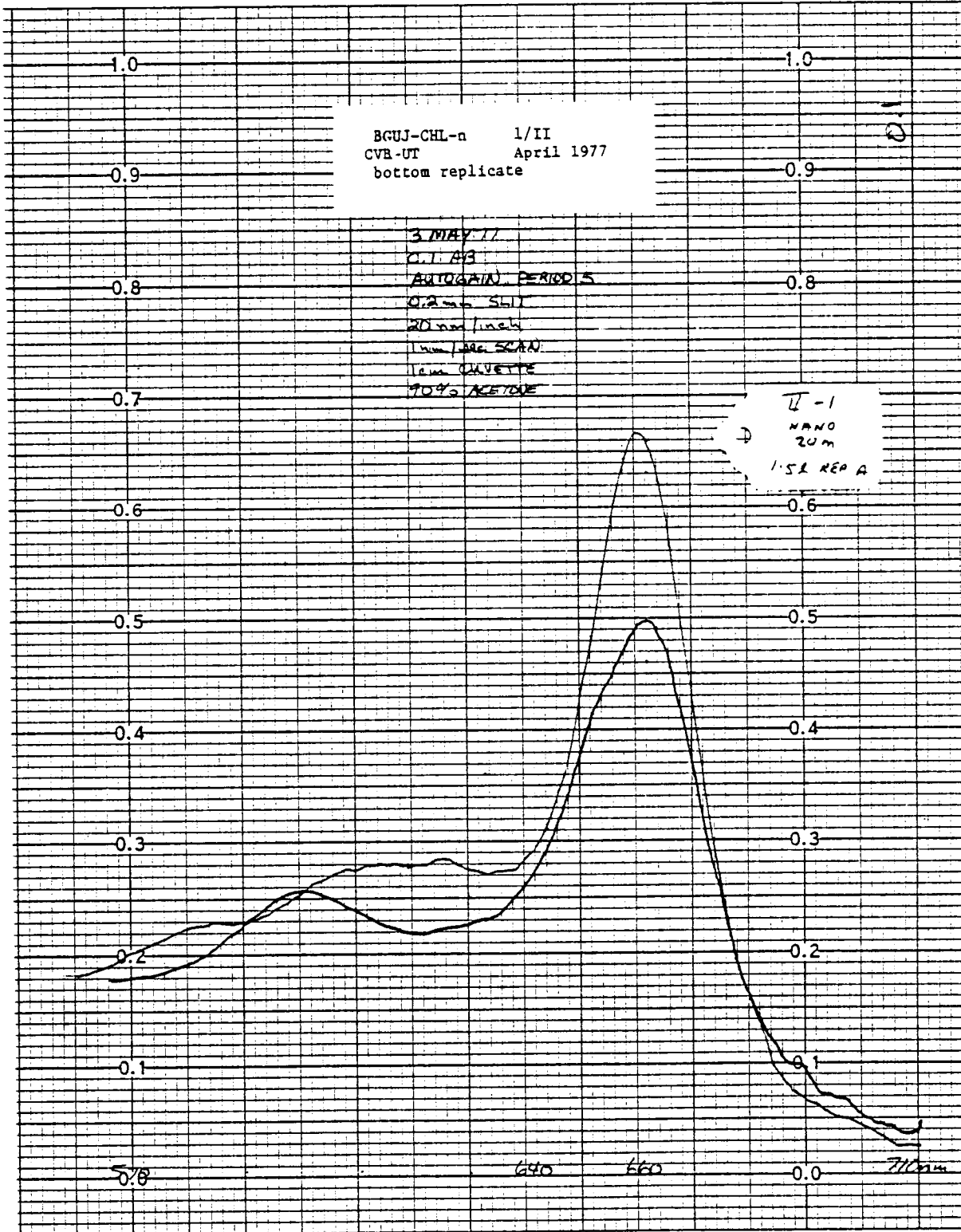
570

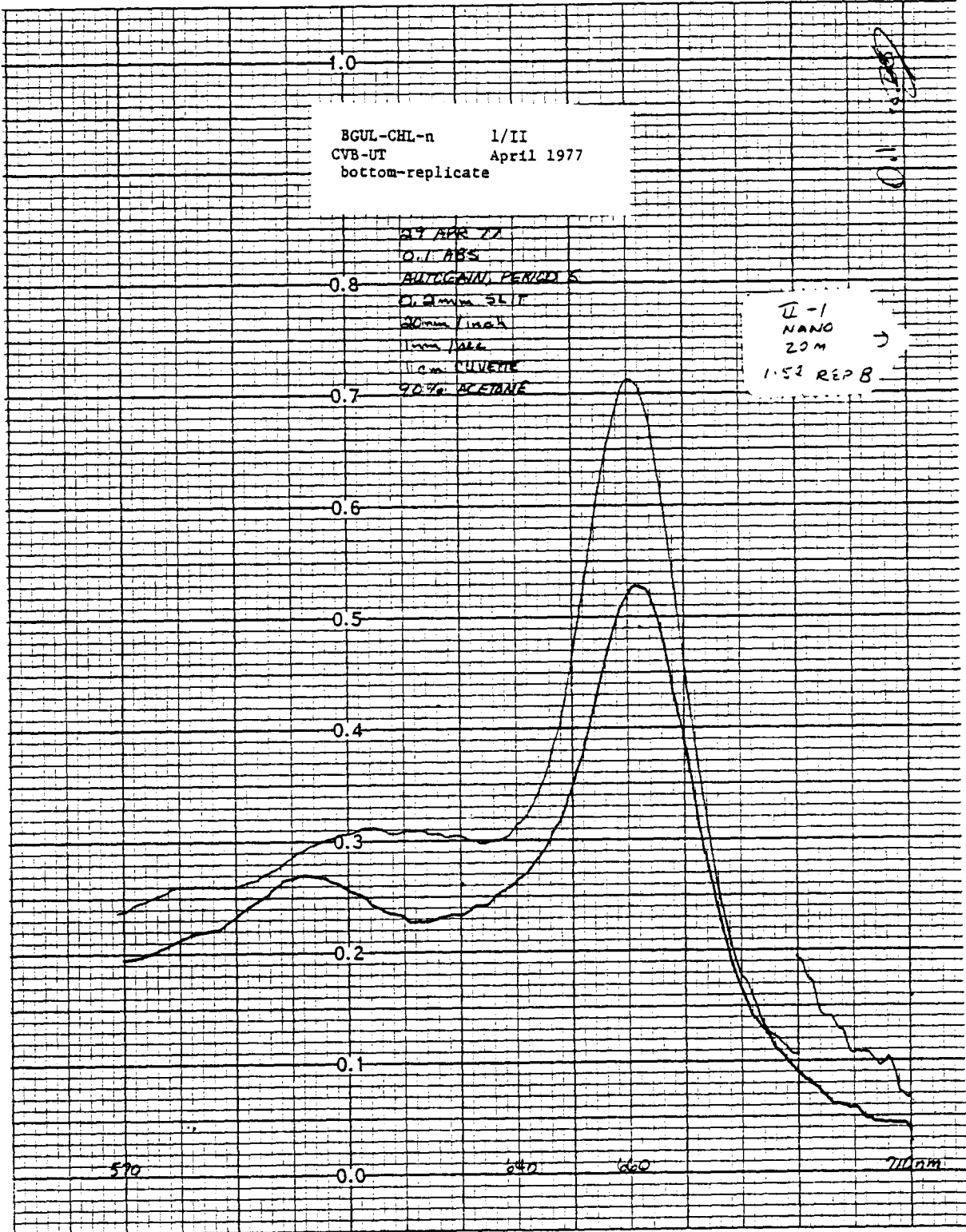
880

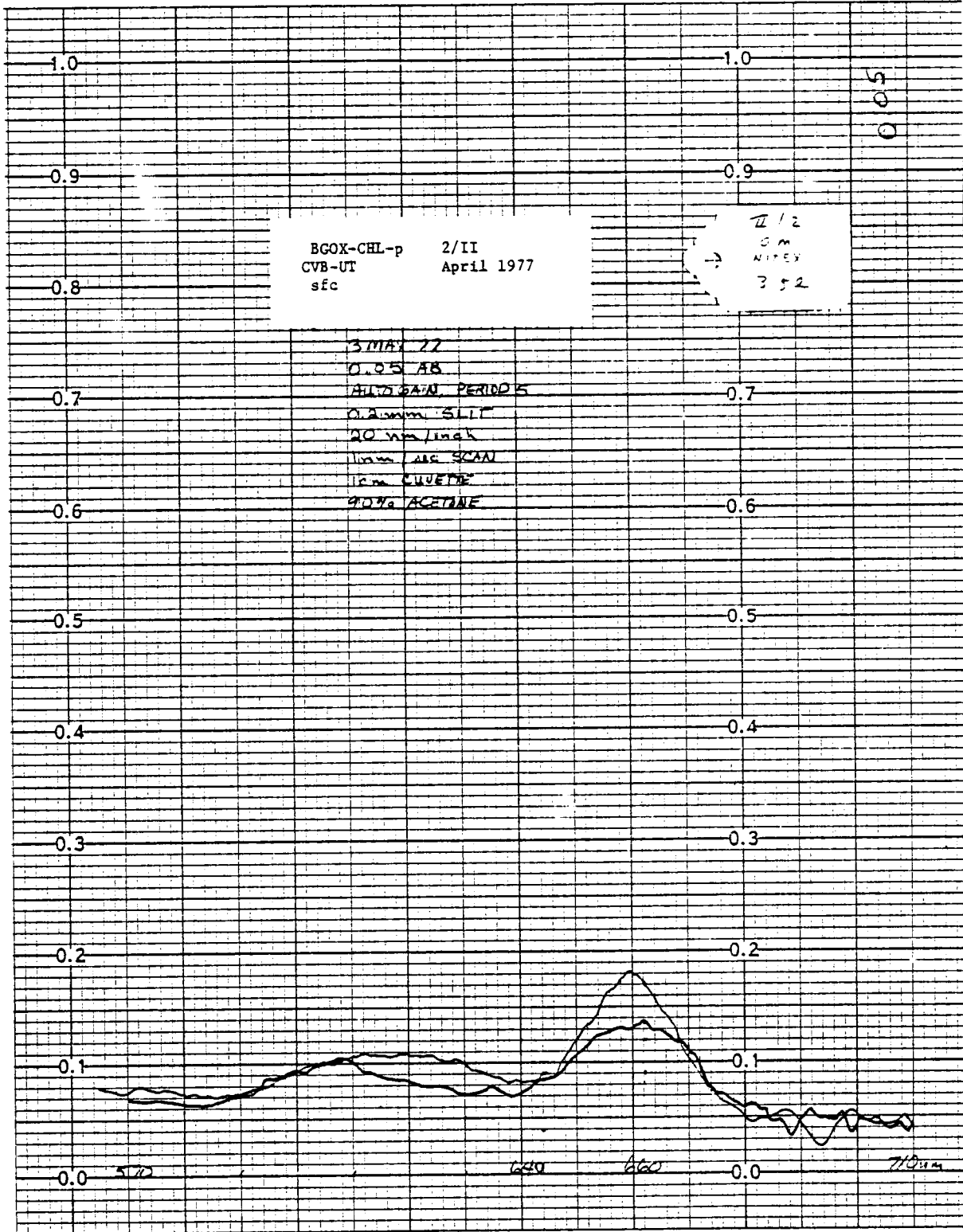
1260

2100 cm





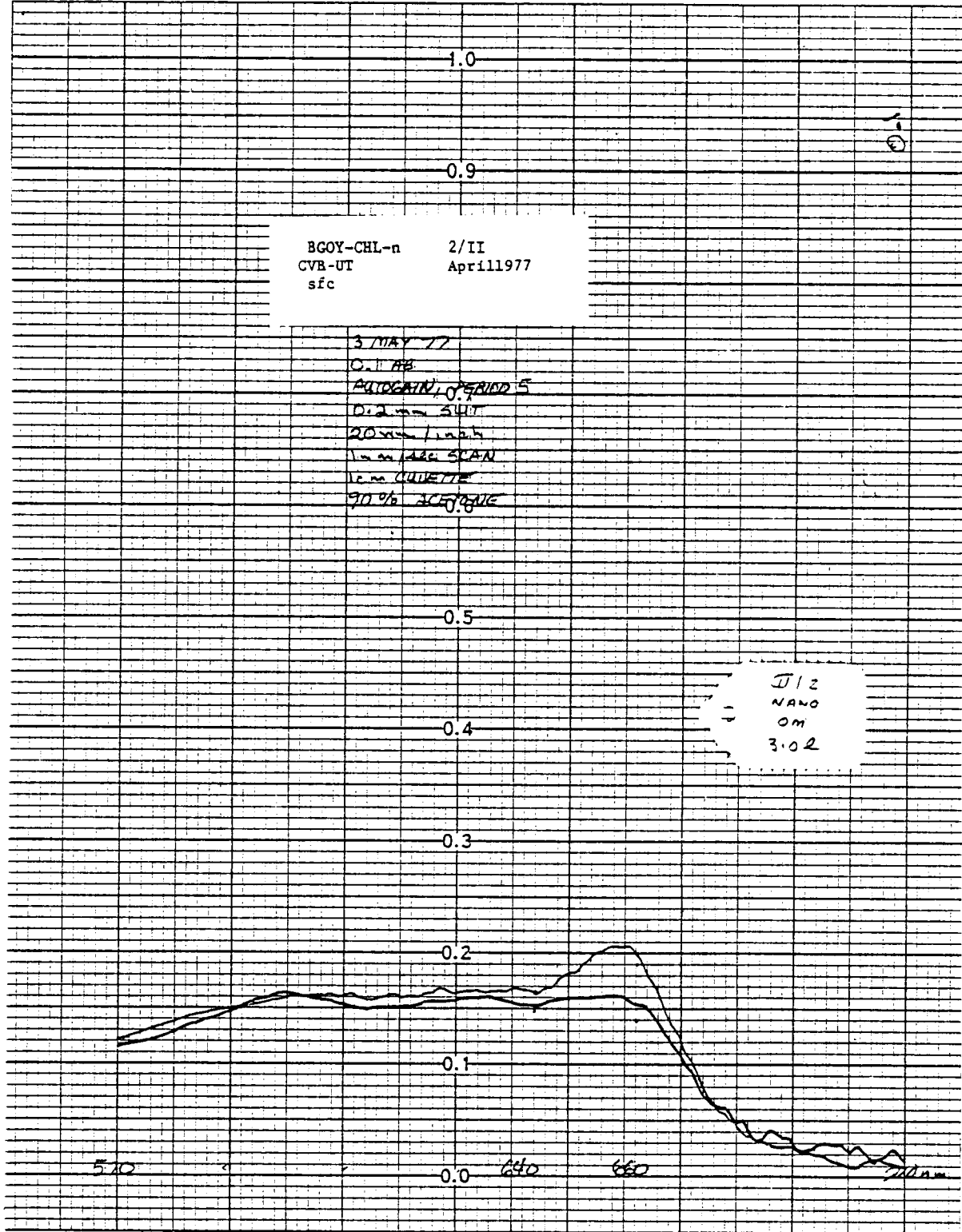




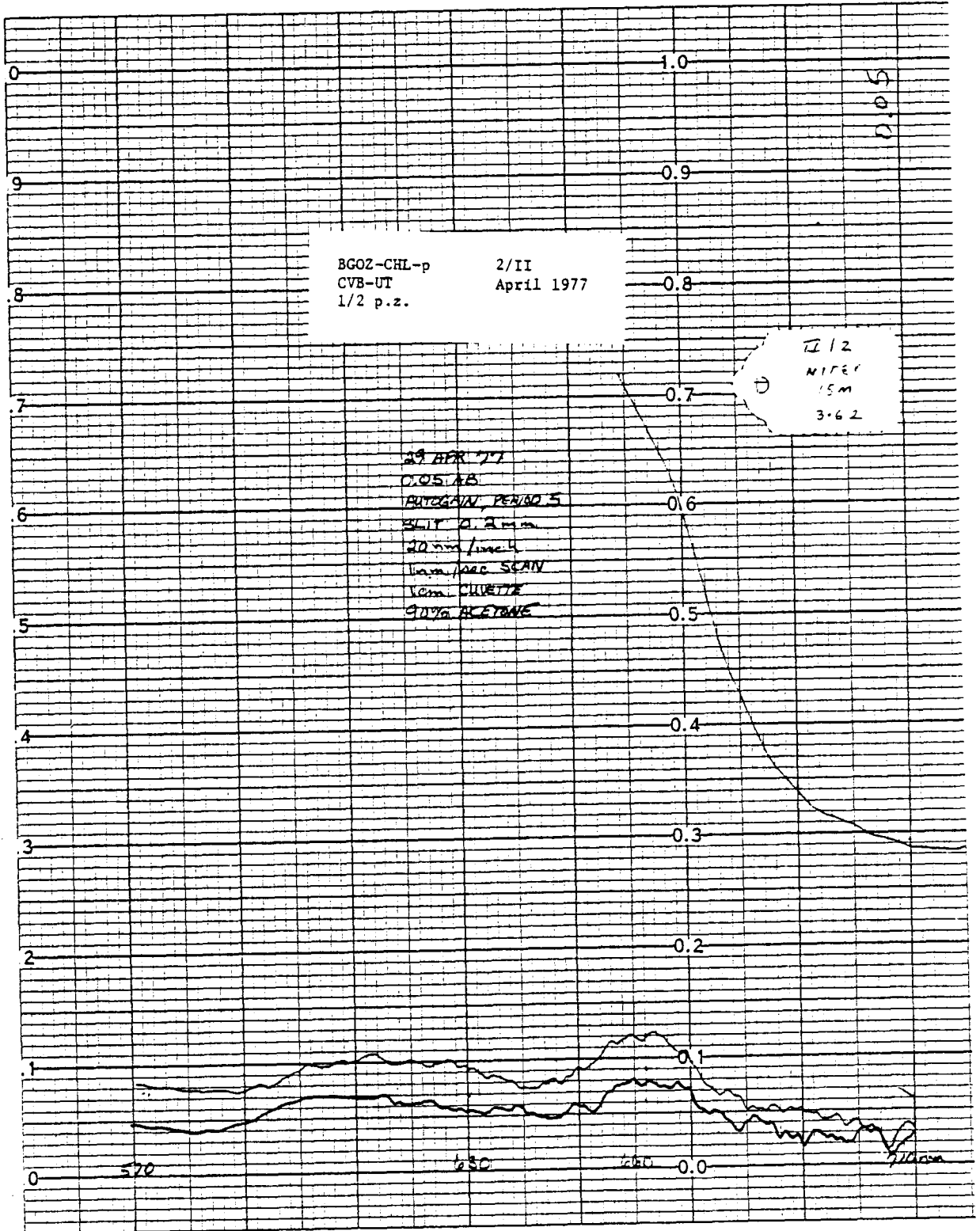
BGOY-CHL-n 2/II  
CVB-UT April 1977  
sfc

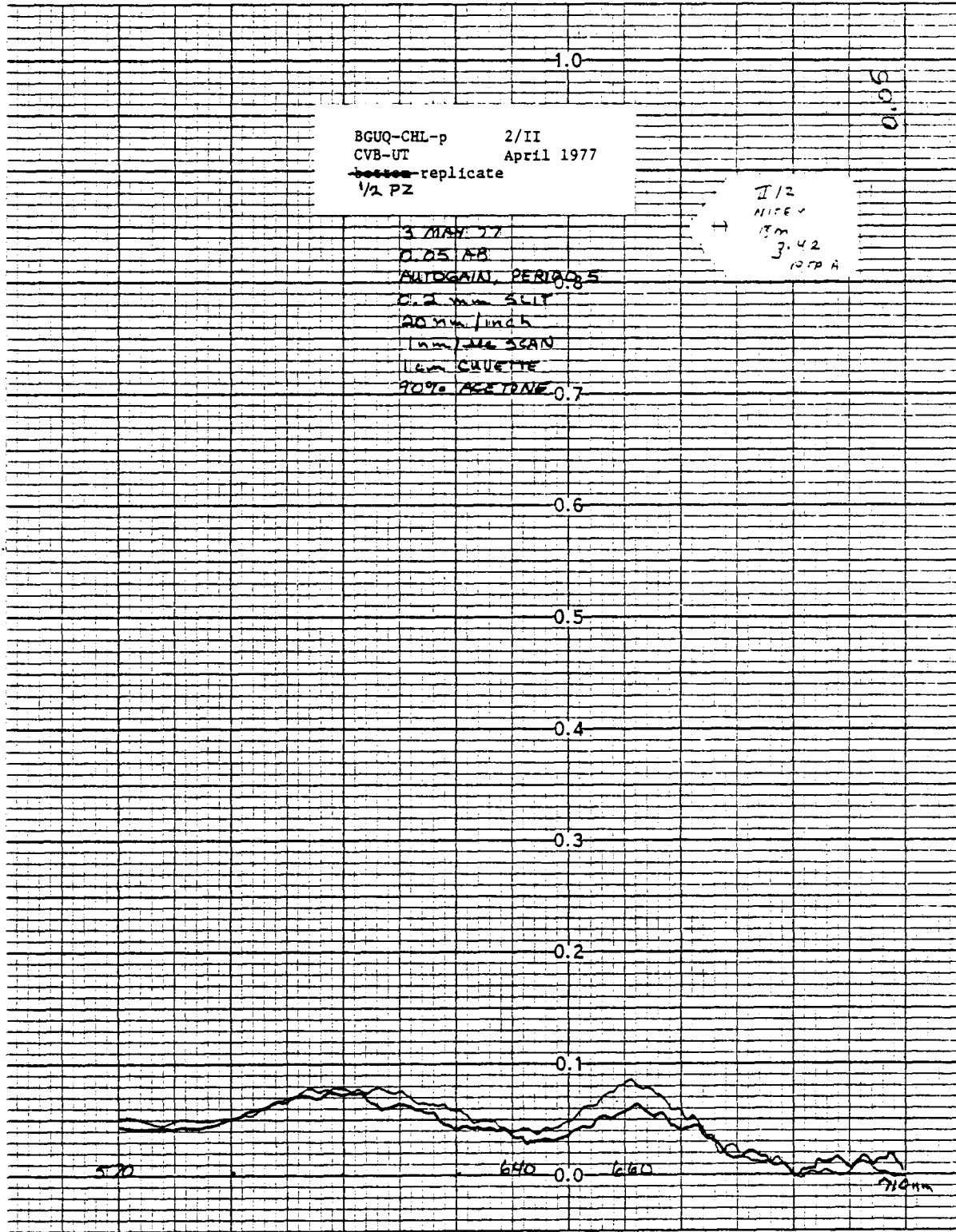
3 MAY 77  
O.I. #8  
AUTOGAIN, 0 PERIOD 5  
D. 2 mm SWT  
20 mm / inch  
1 cm / sec SCAN  
12 m QUINETTE  
90% ACETONE

U/2  
NANO  
OM  
3.02









BGUQ-CHL-p 2/II  
 CVB-UT April 1977  
~~base~~-replicate  
 1/2 PZ

I/2  
 NIFEY  
 15m  
 3.42  
 1070 A

3 MAY 77  
 0.05 AB  
 AUTOGAIN PERIOD 0.5  
 0.2 mm SLIP  
 20 mm/linch  
 1mm/SEC SCAN  
 1mm CHUETTE  
 90% ACETONE 0.7

0.05

1.0

0.6

0.5

0.4

0.3

0.2

0.1

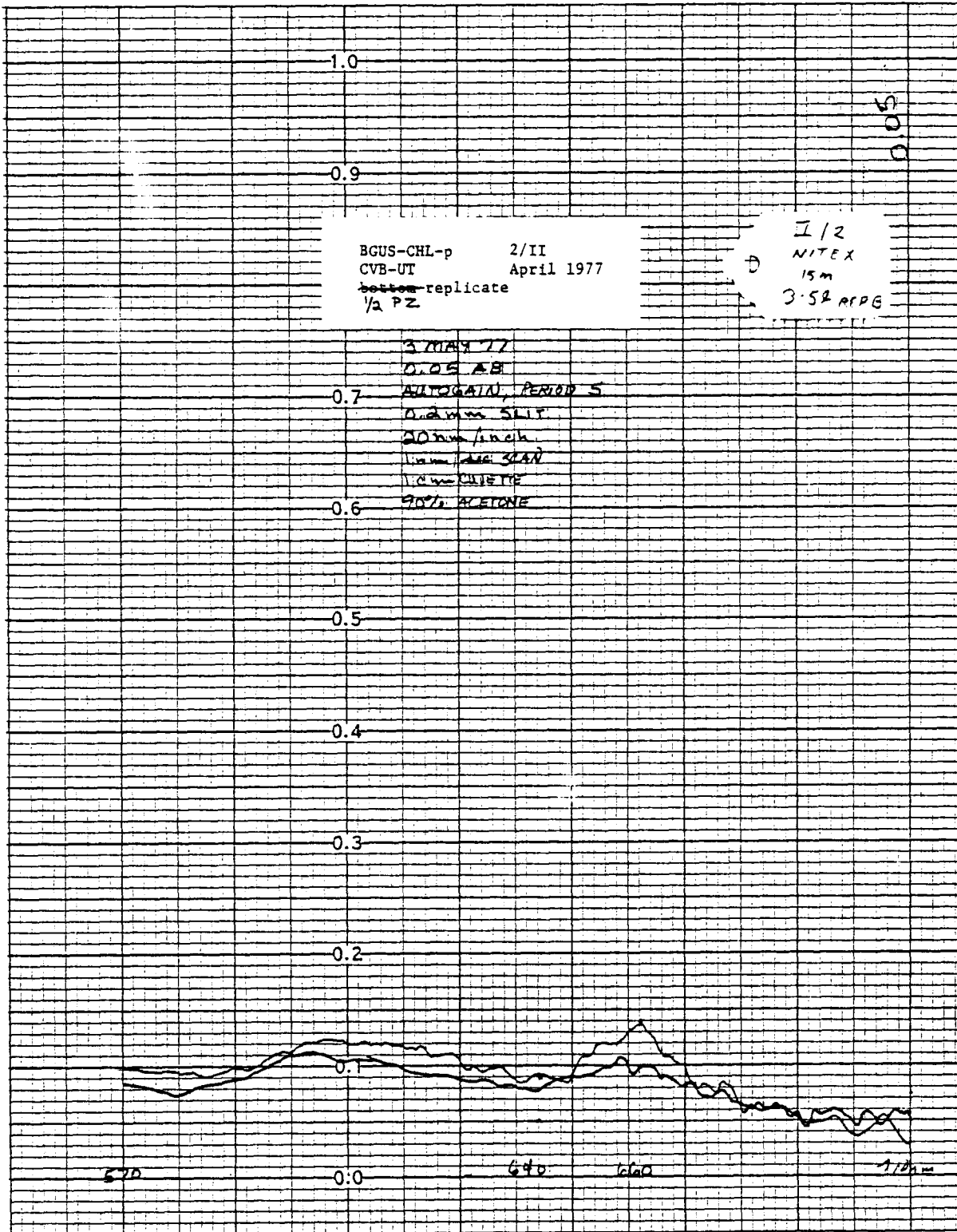
0.0

570

640

660

710mm



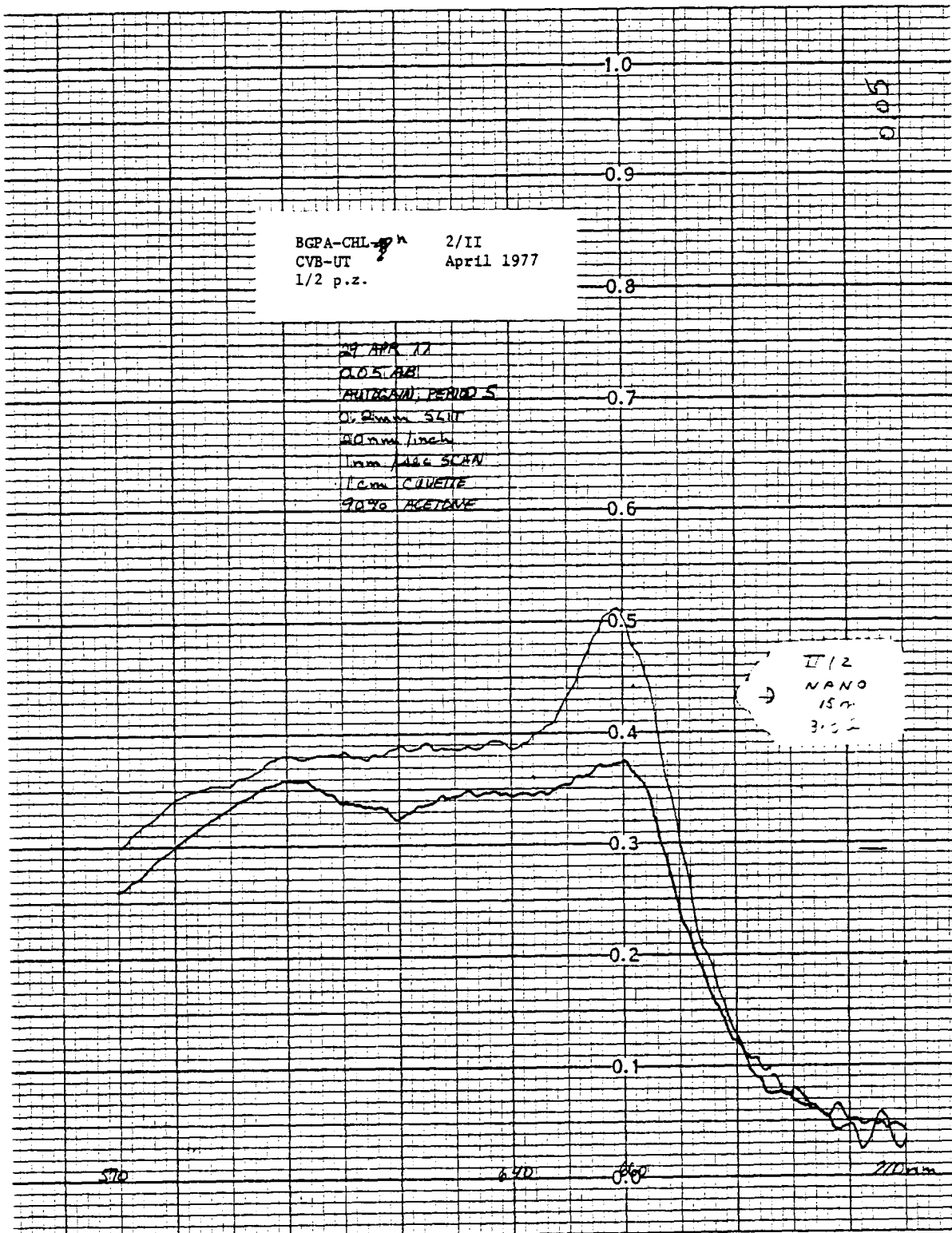
BGUS-CHL-p 2/II  
 CVB-UT April 1977  
 bottom replicate  
 1/2 PZ

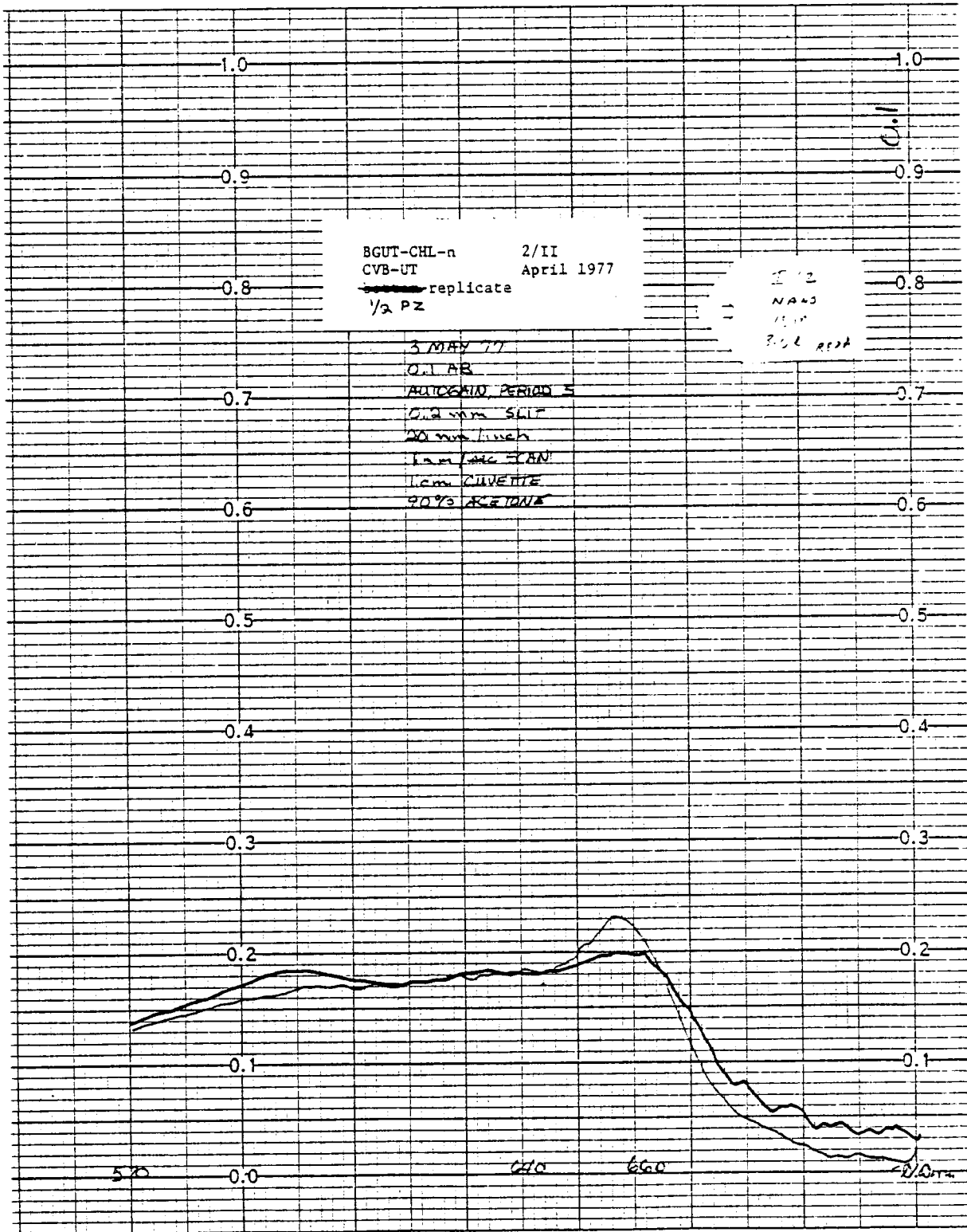
I/2  
 NITEX  
 15m  
 3.52 RPPB

3 MAY 77  
 0.05 AB  
 AUTOGAIN PERIOD 5  
 0.2mm SLIT  
 20mm/inch  
 1.0mm/sec SCAN  
 1.0mm CUIETTE  
 90% ACETONE

0.05

5.70 0.0 6.40 6.60 7.20

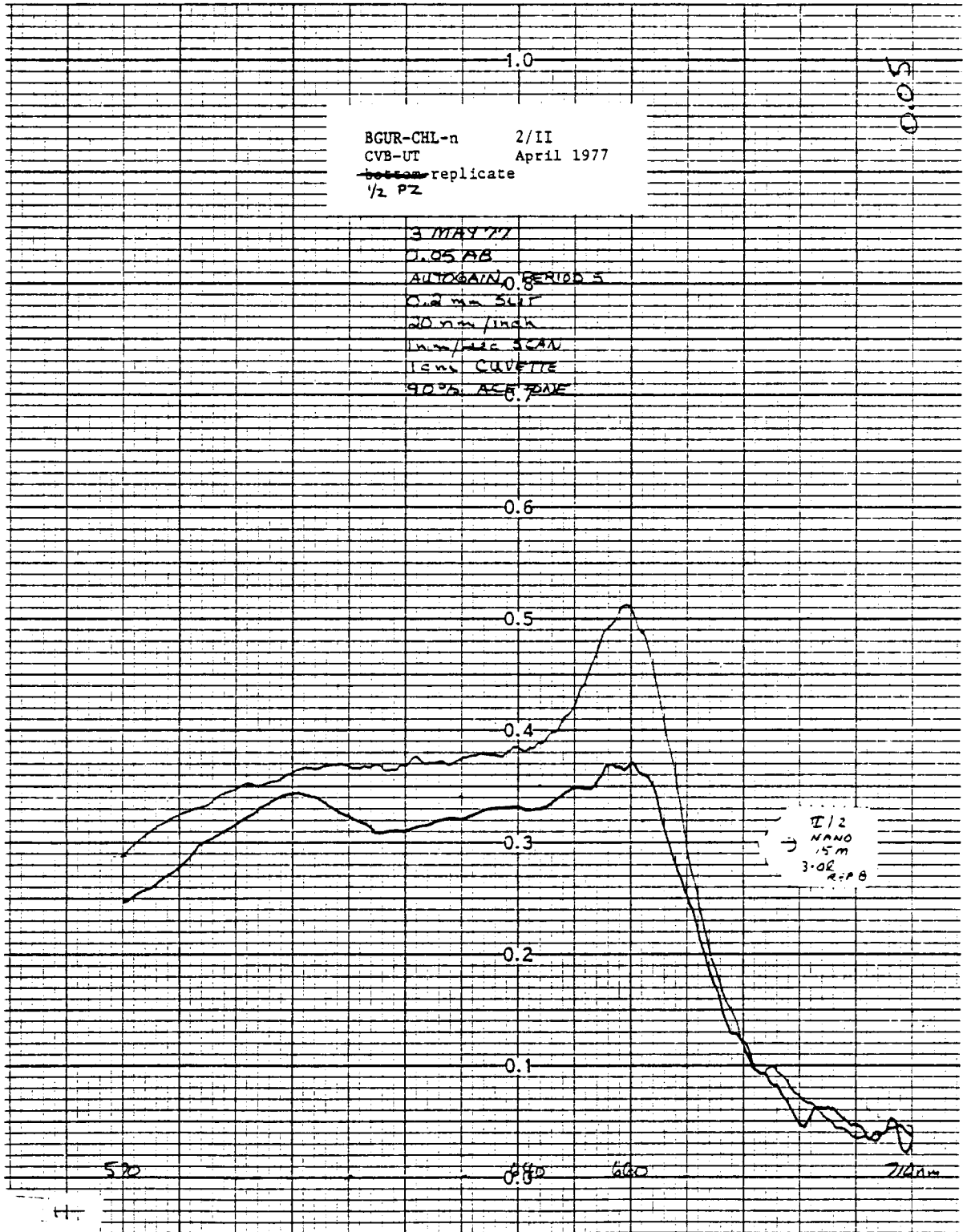




BGUR-CHL-n 2/II  
 CVB-UT April 1977  
~~bottom~~-replicate  
 1/2 PZ

0.05

3 MAY 77  
 0.05 AB  
 AUTO GAIN 0.8  
 0.2 mm SLIT  
 20 nm/inch  
 1 mm/sec SCAN  
 1 cm CUVETTE  
 90% ACETONE

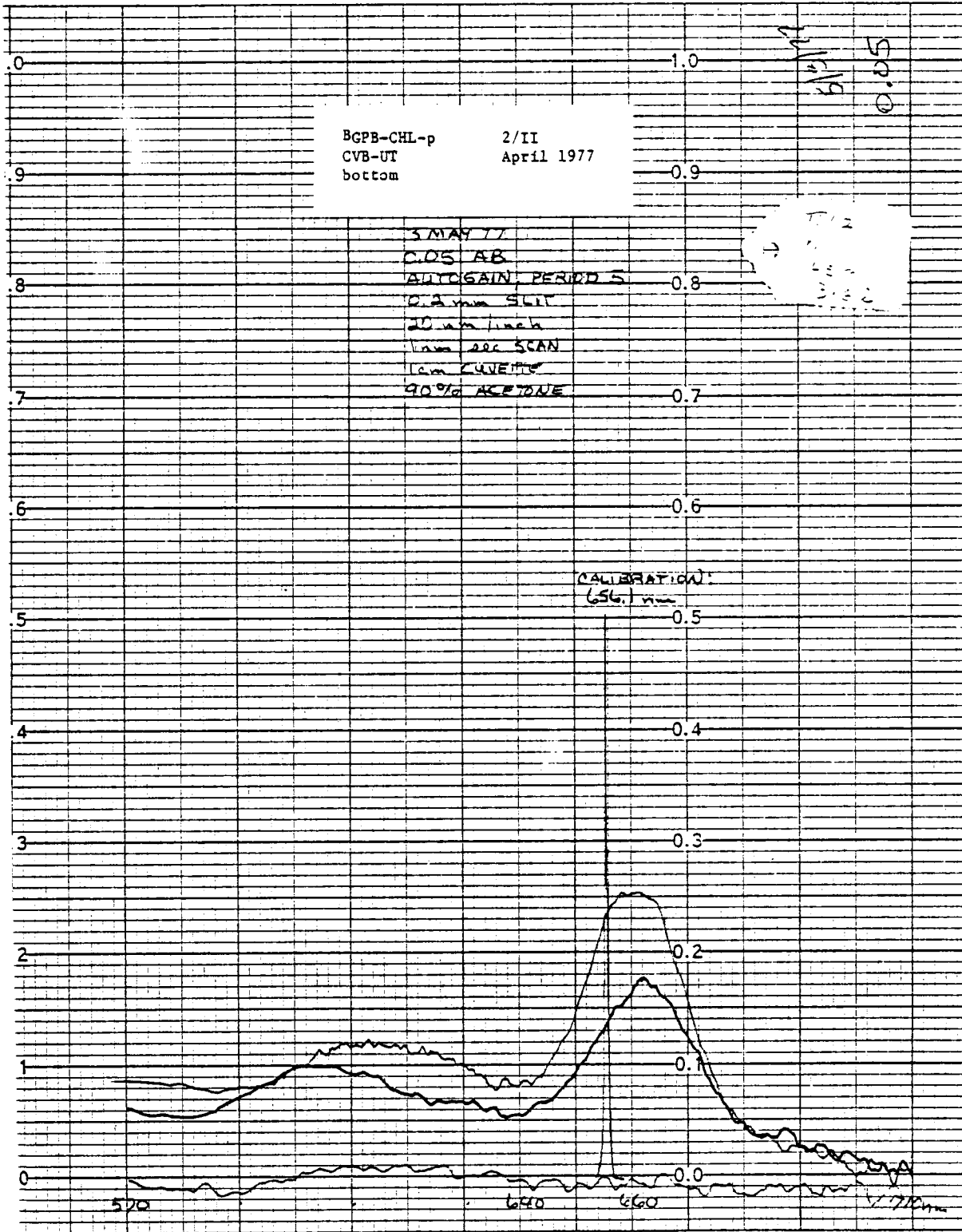


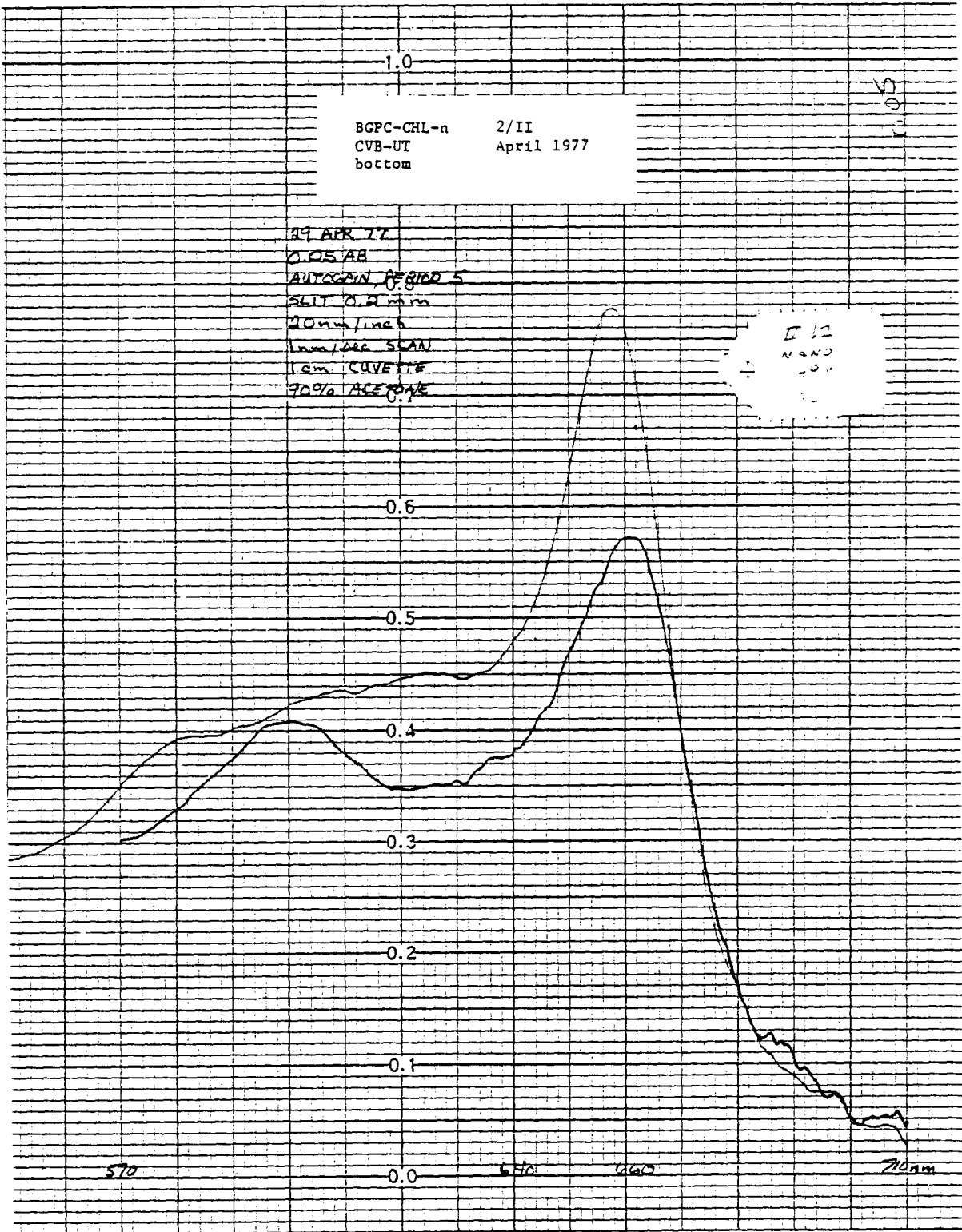
500

600

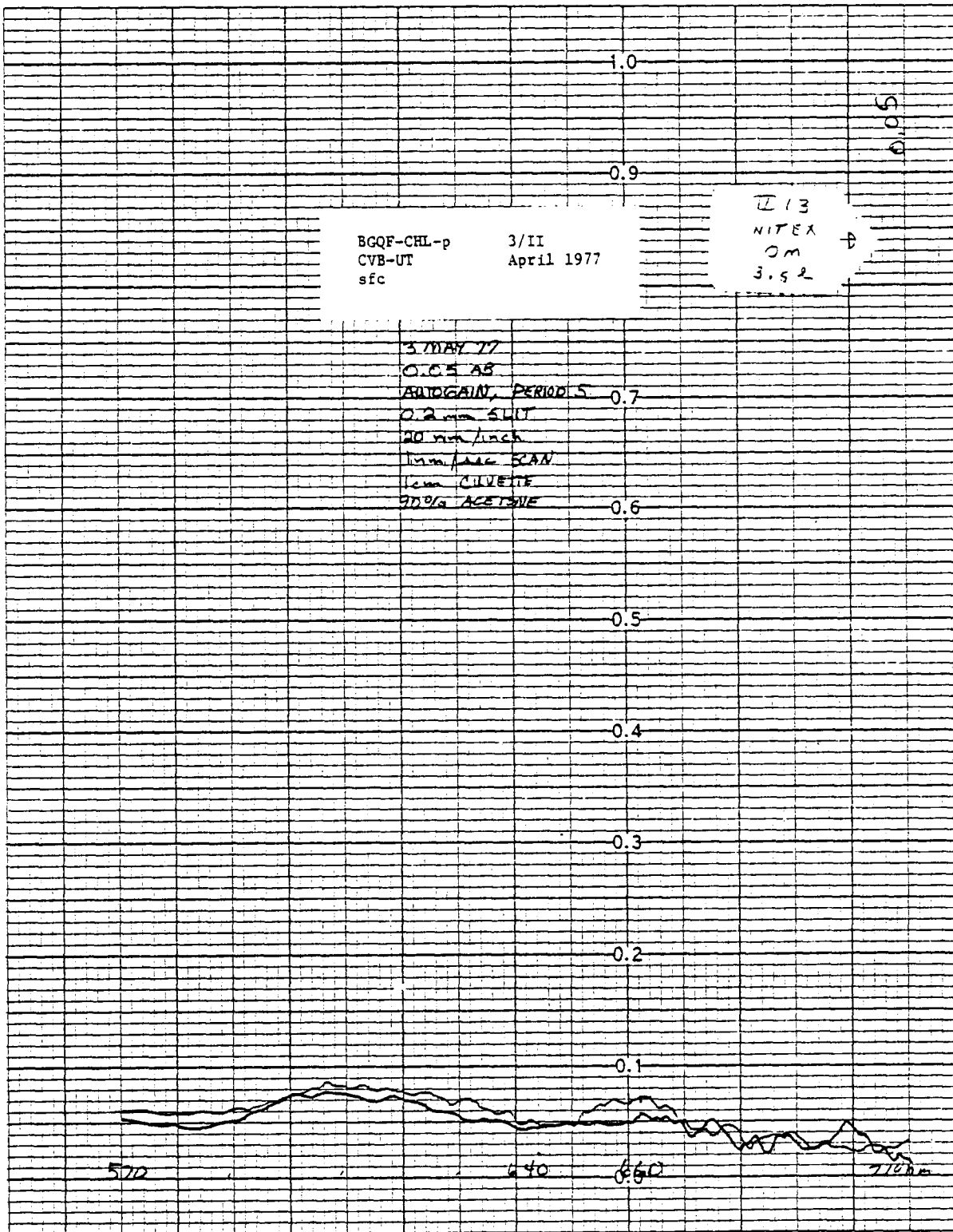
600

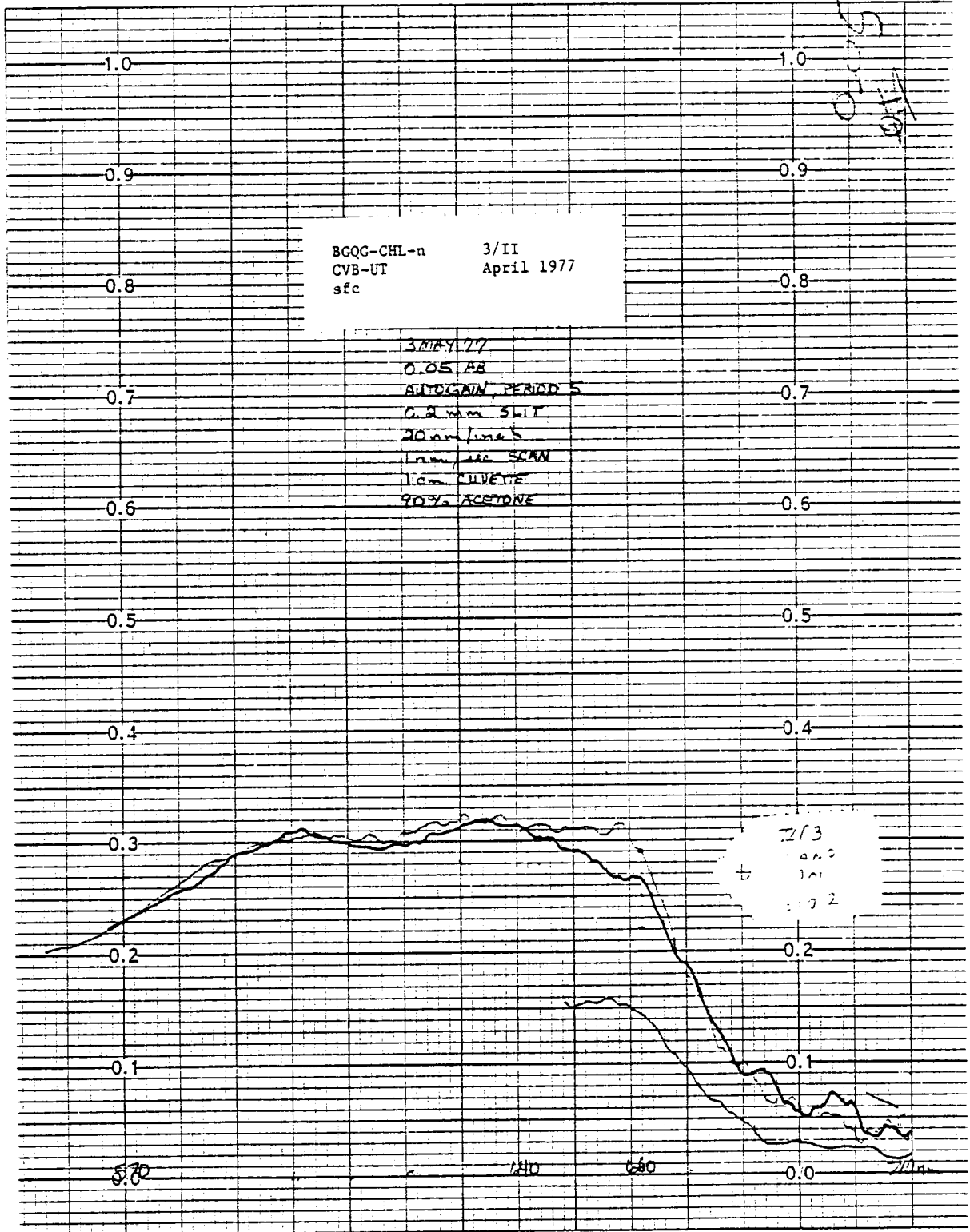
700 nm

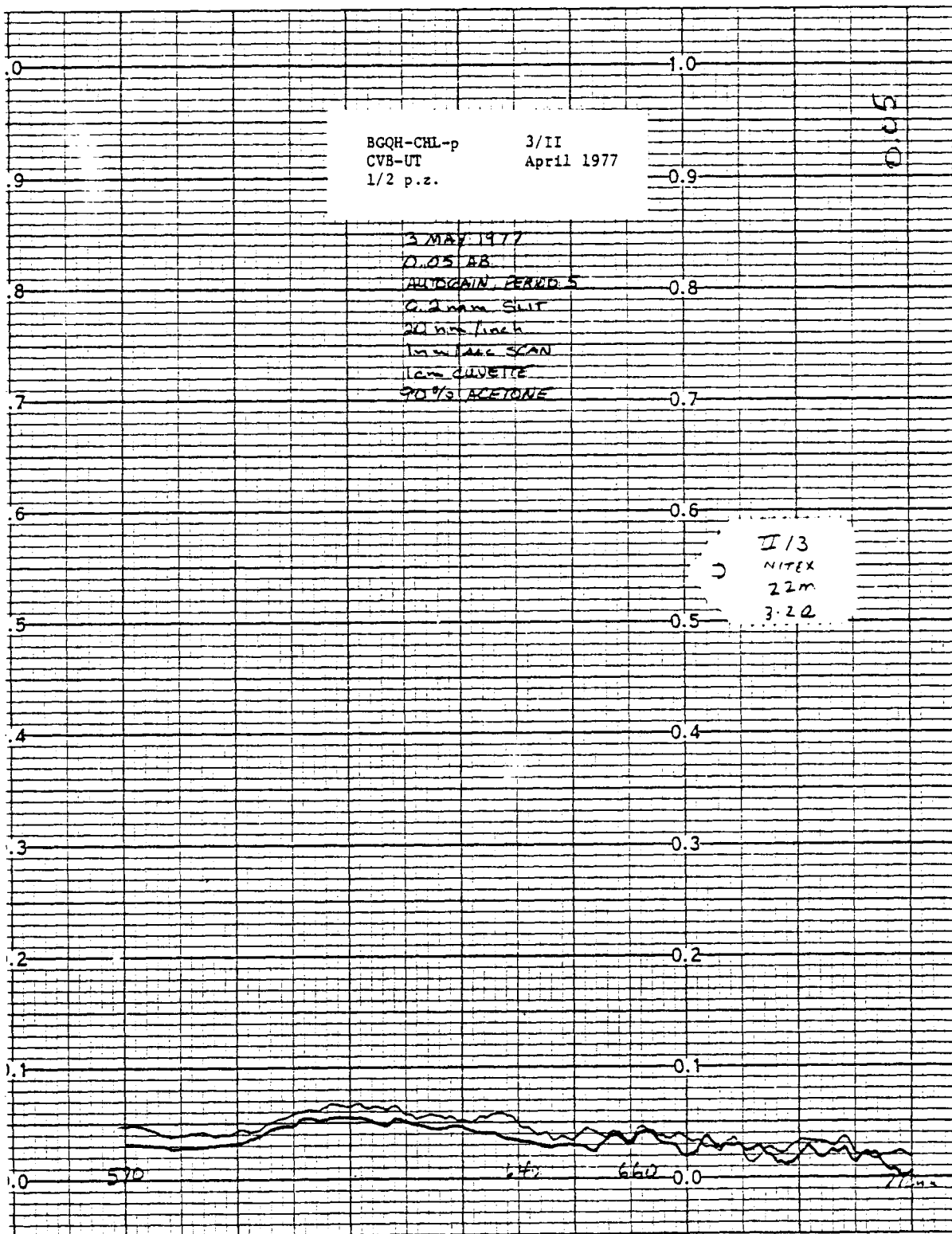


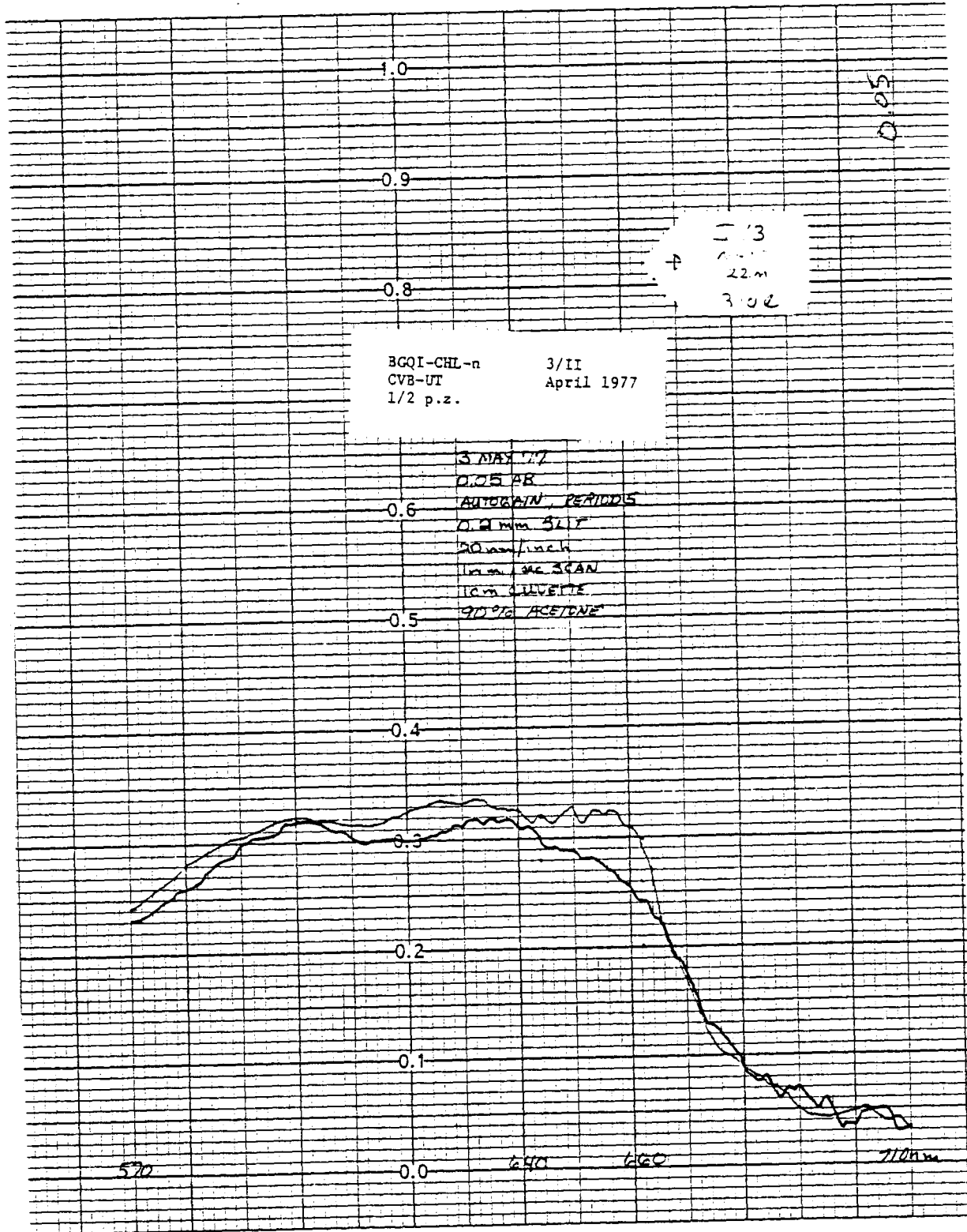


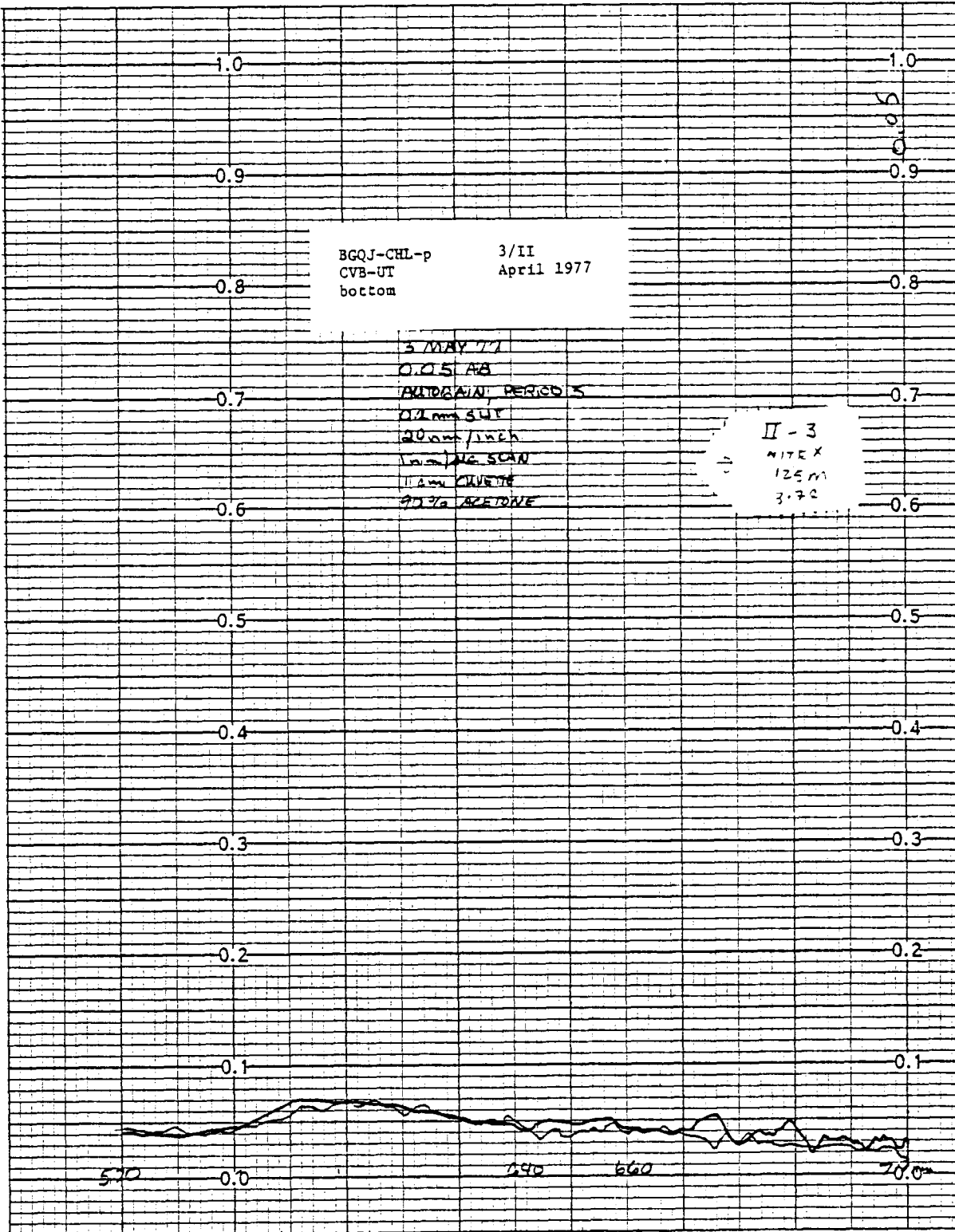


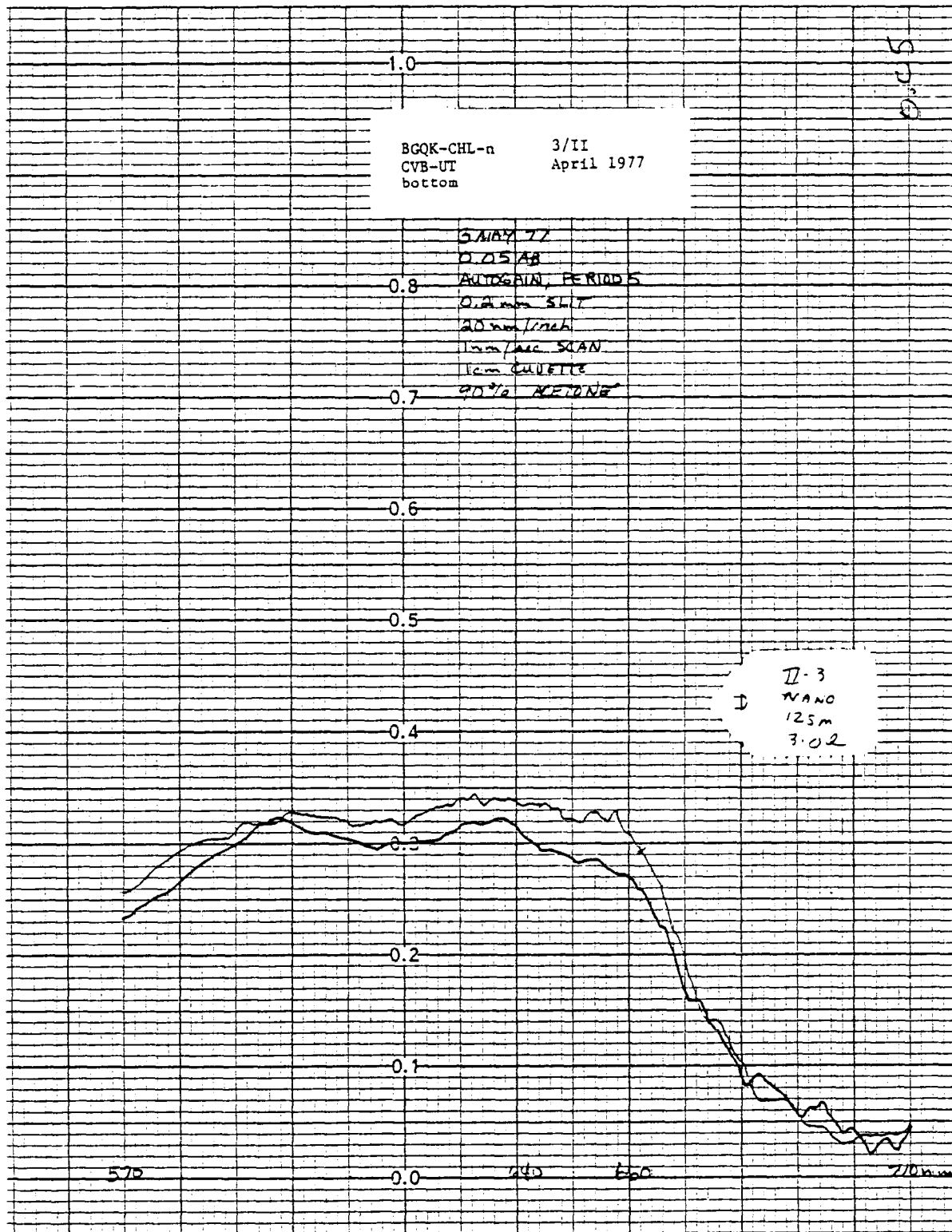


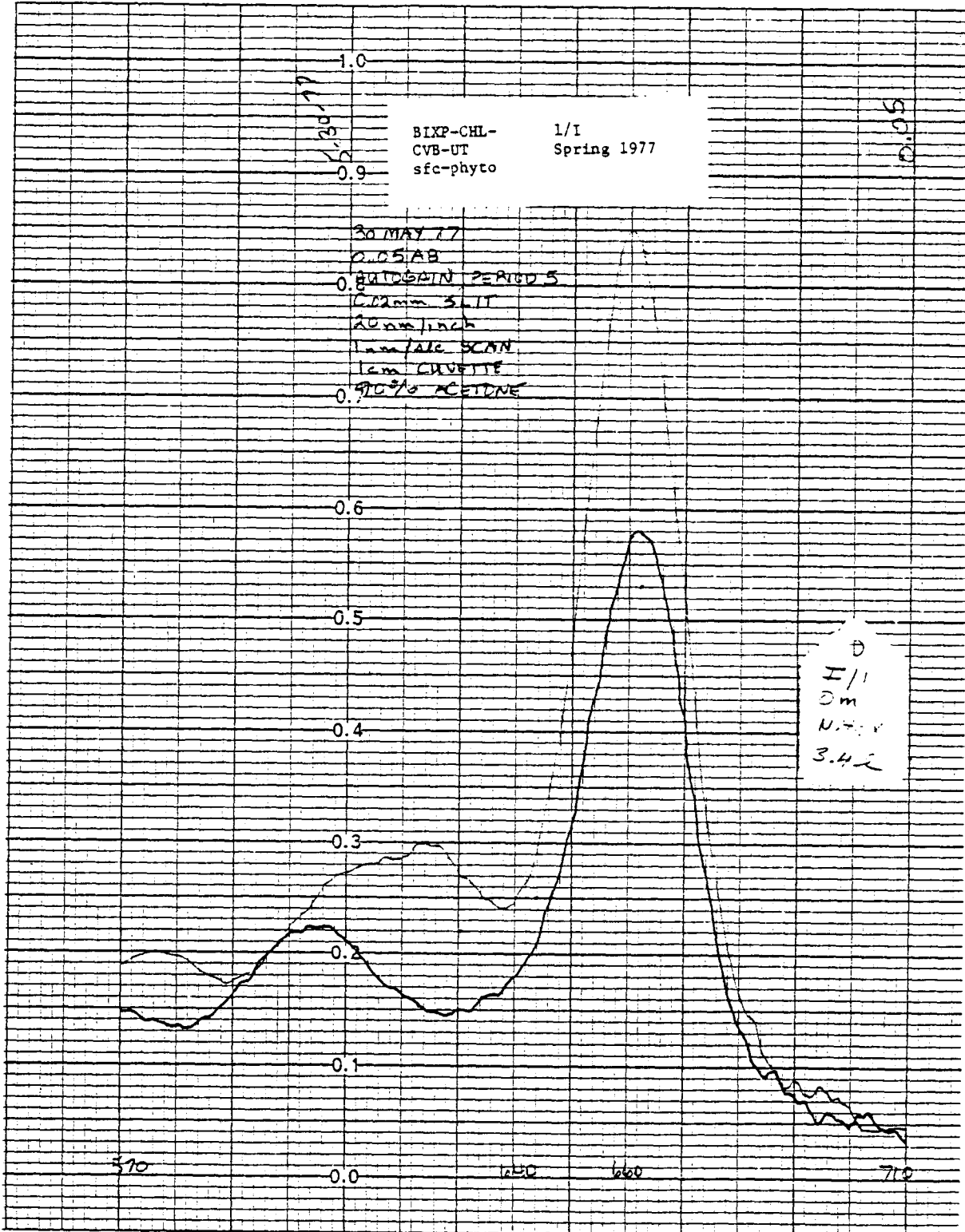


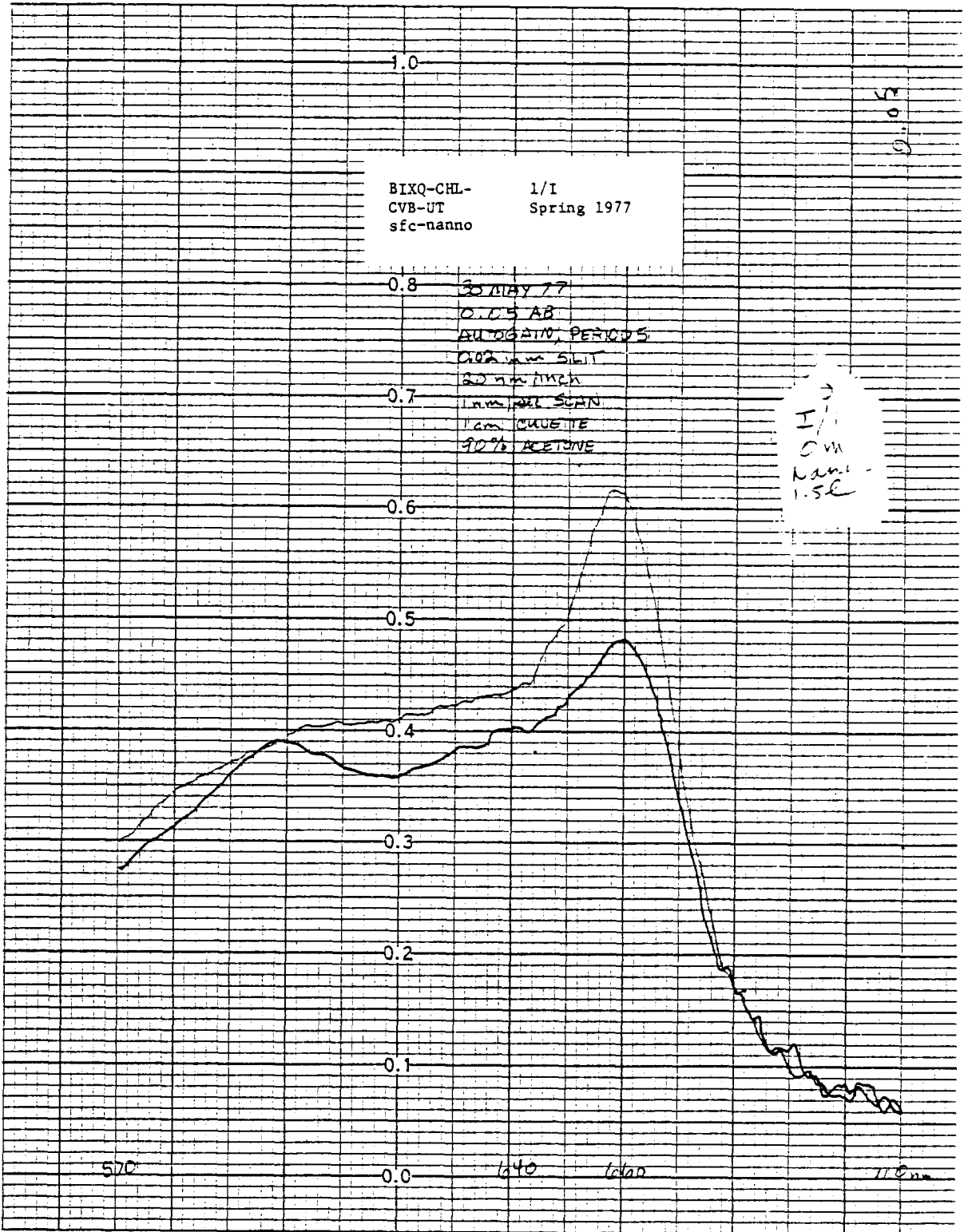




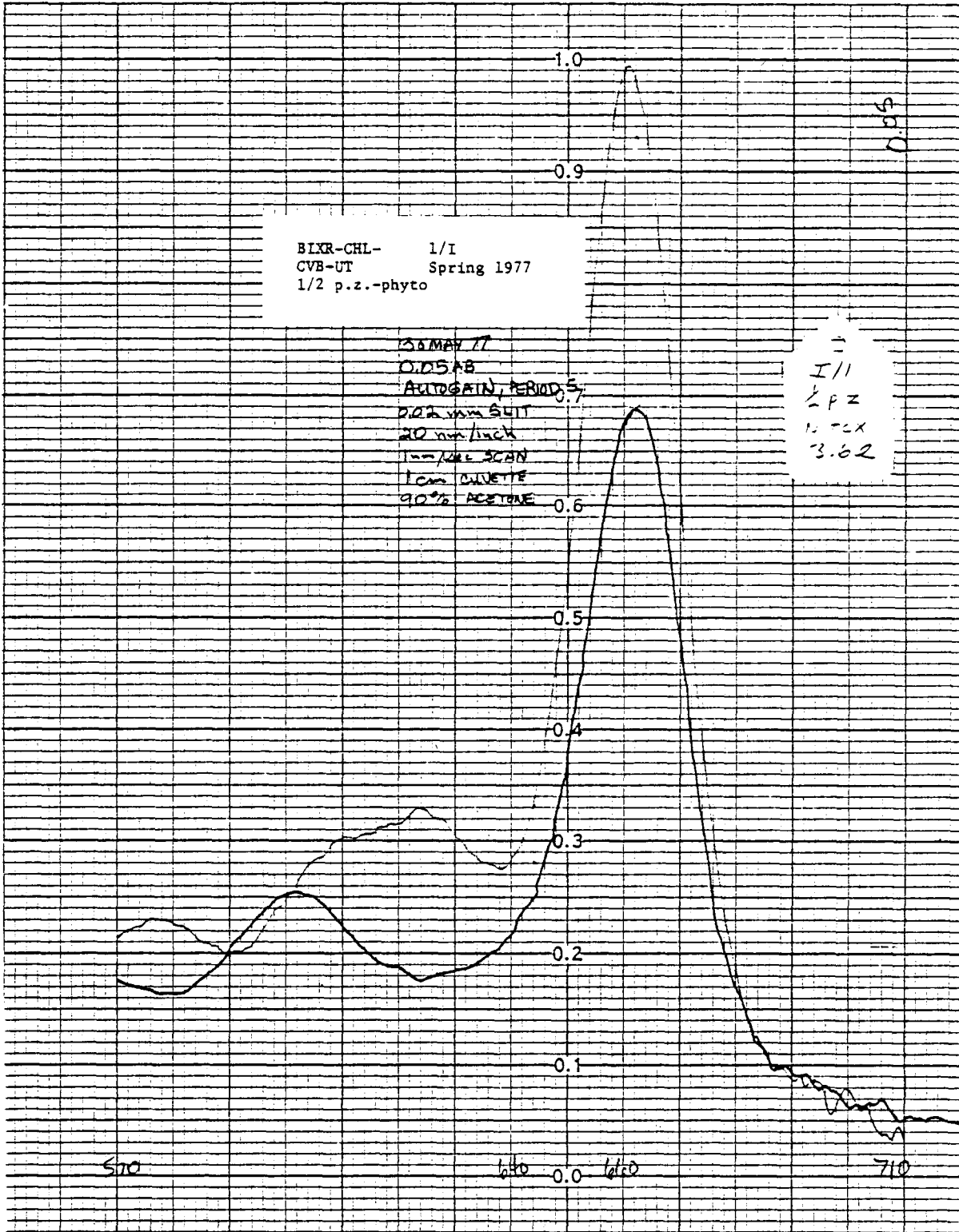


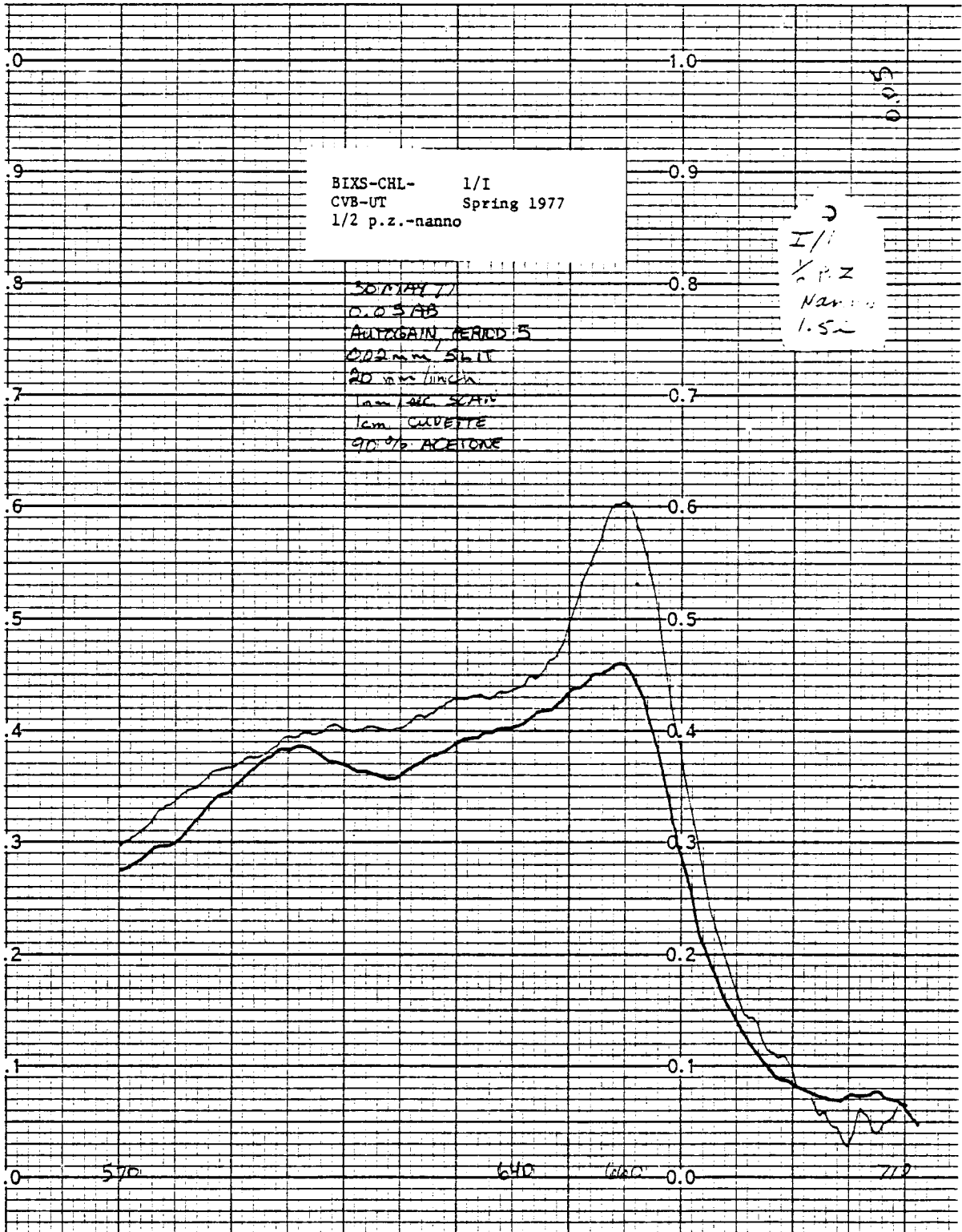


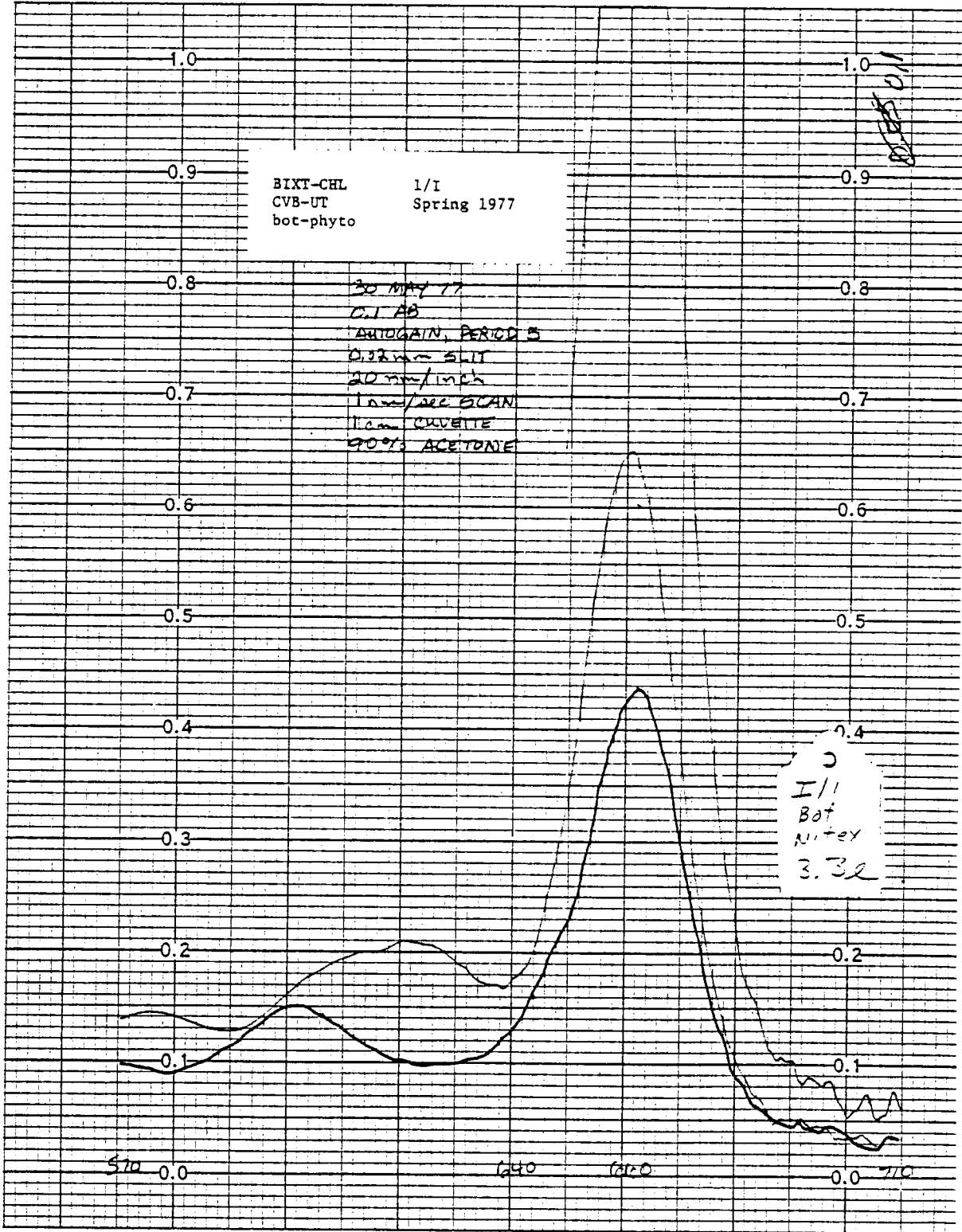


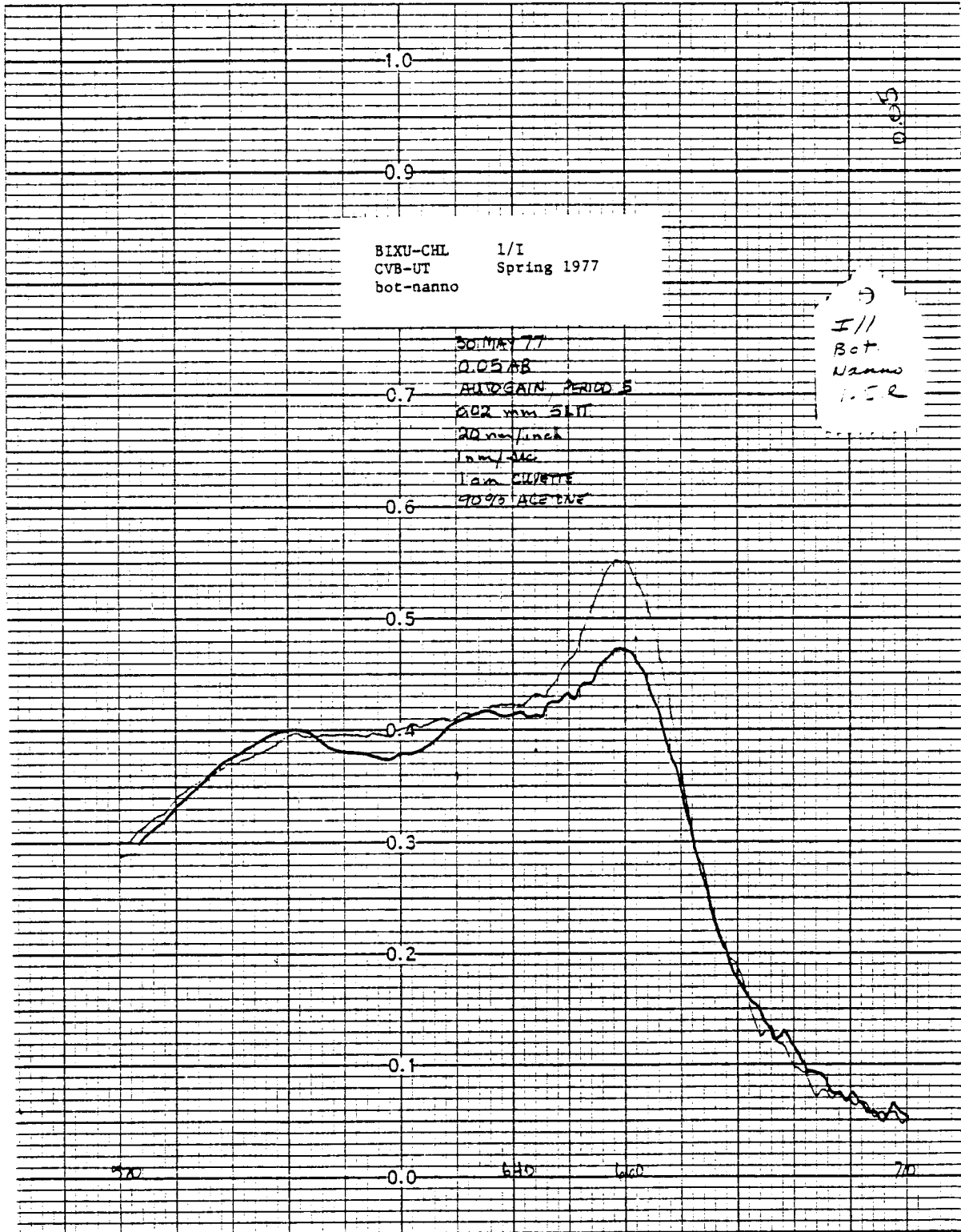


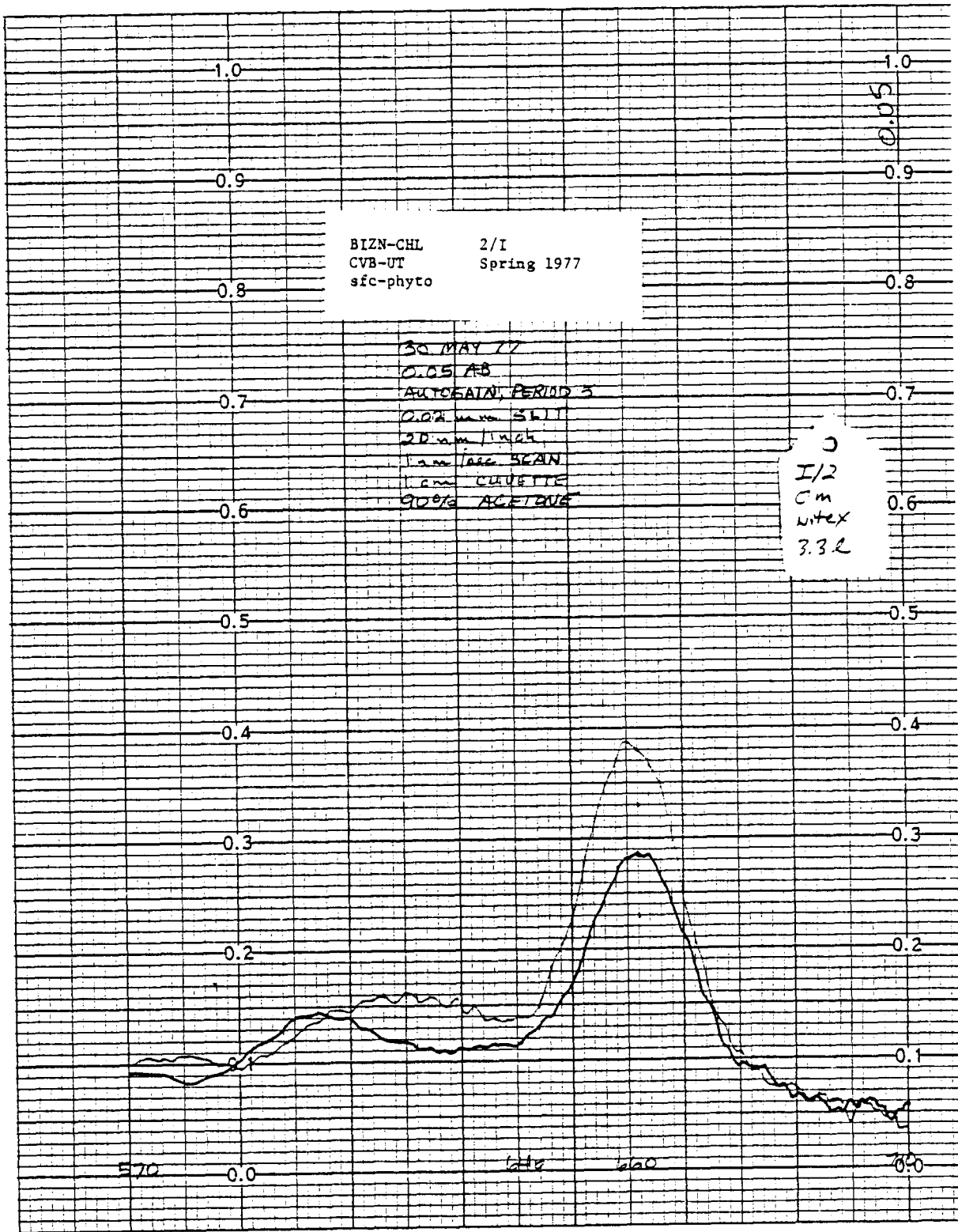


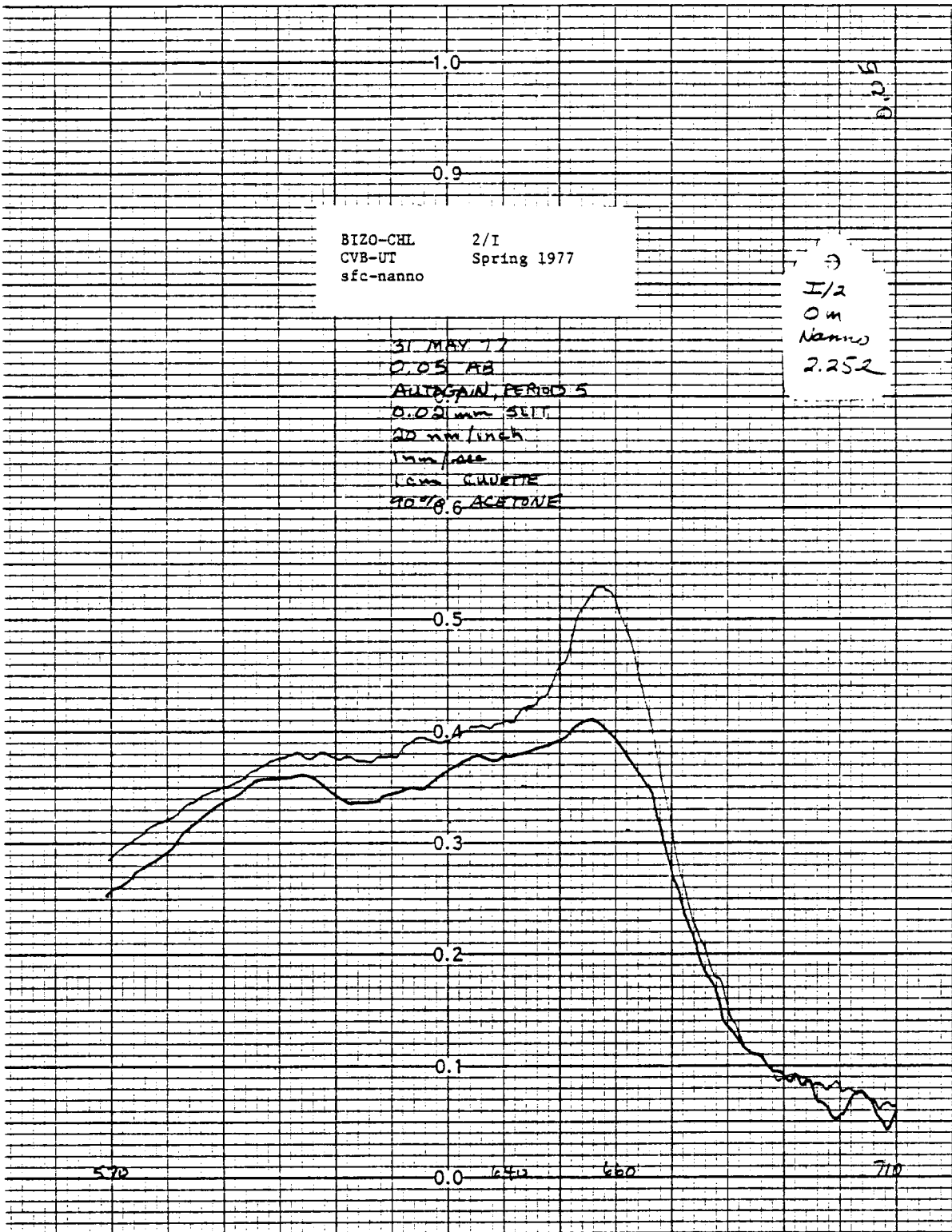


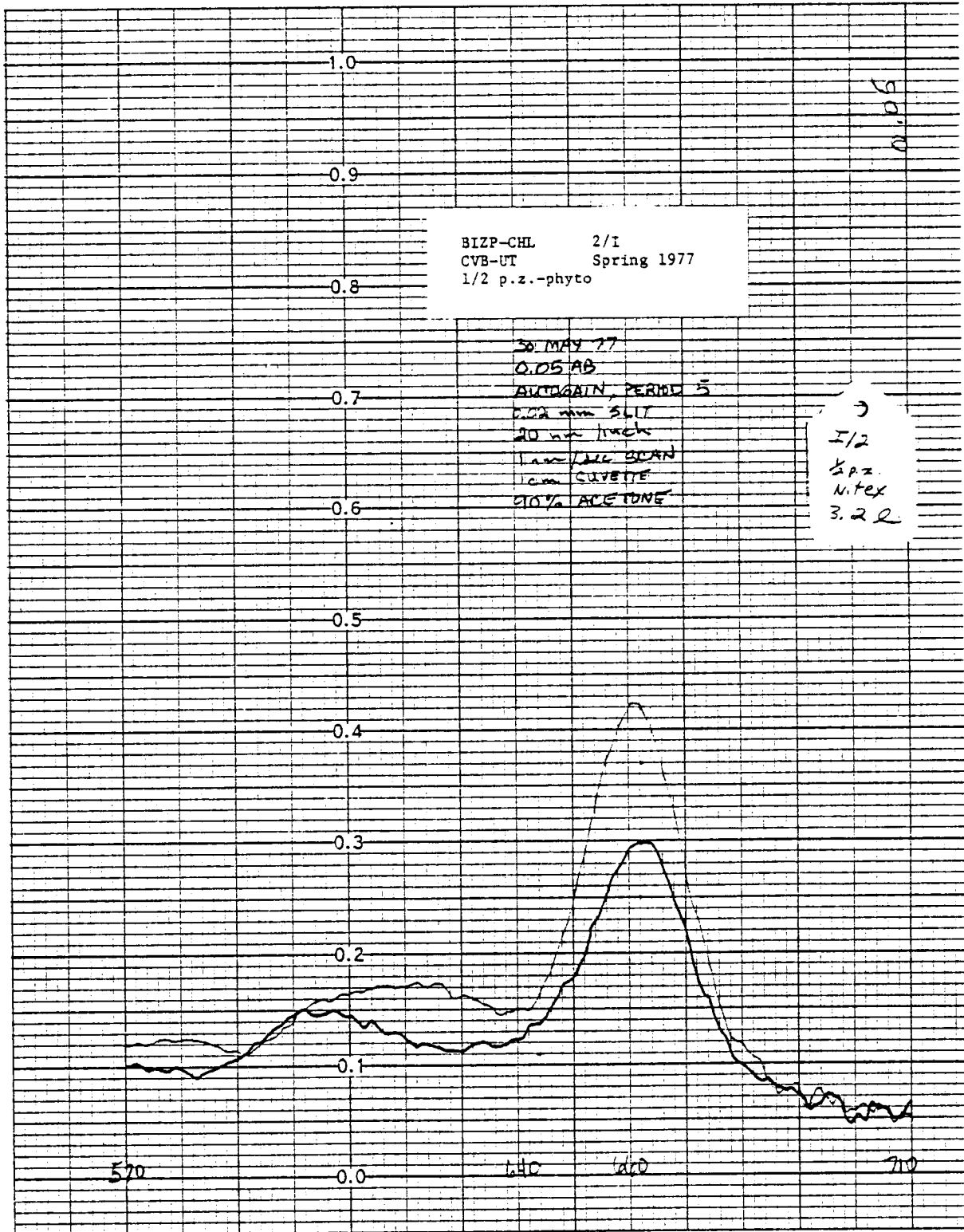


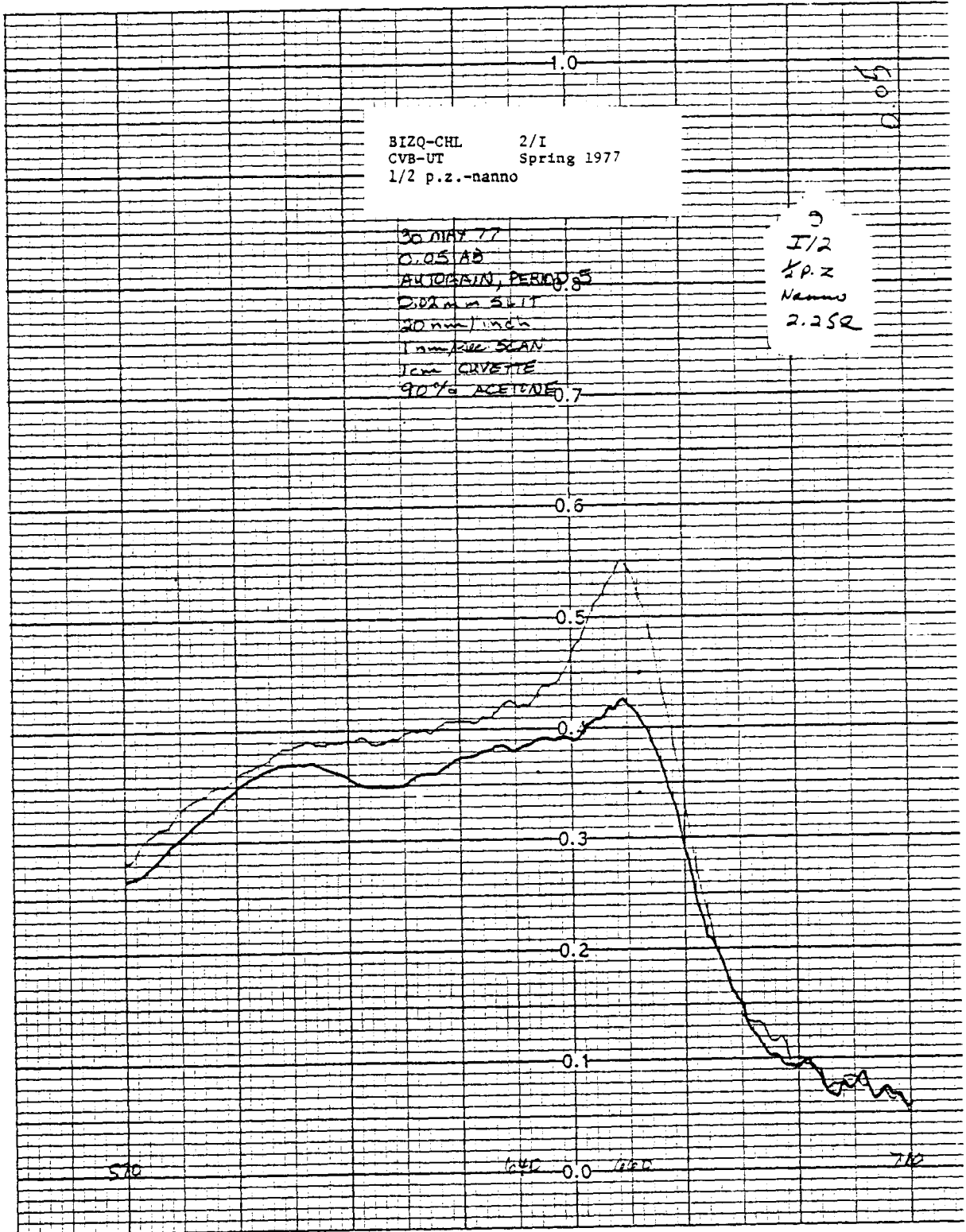




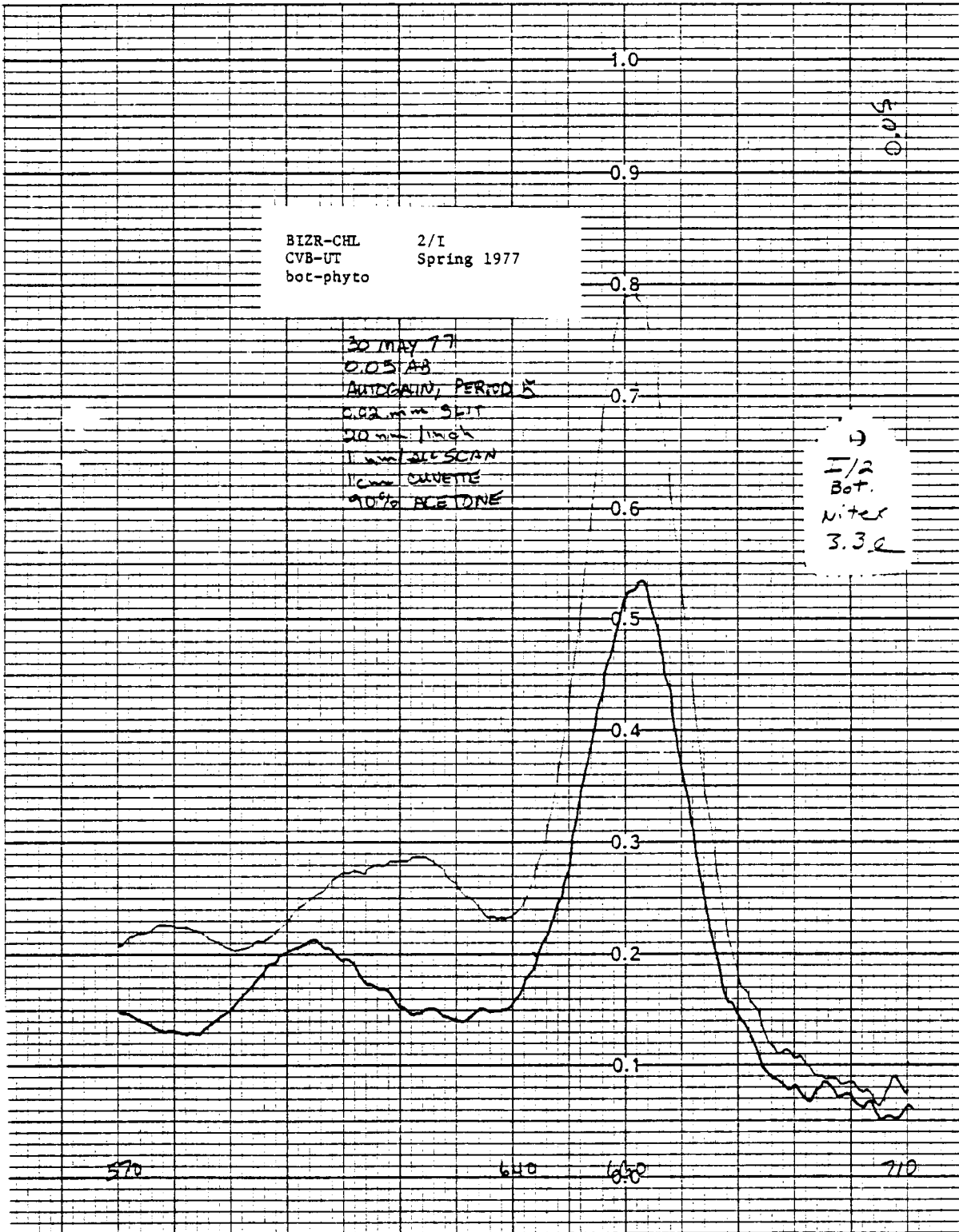


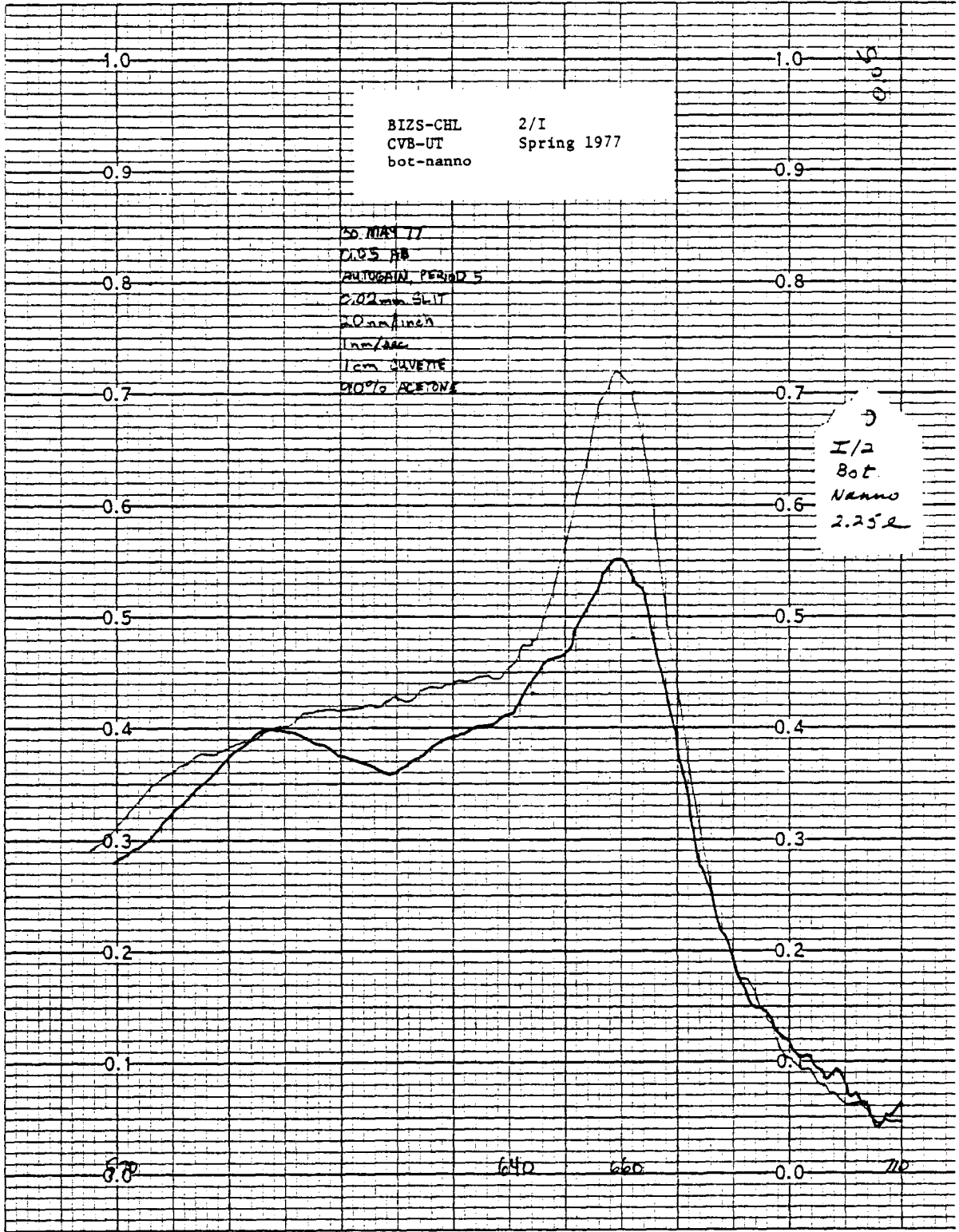


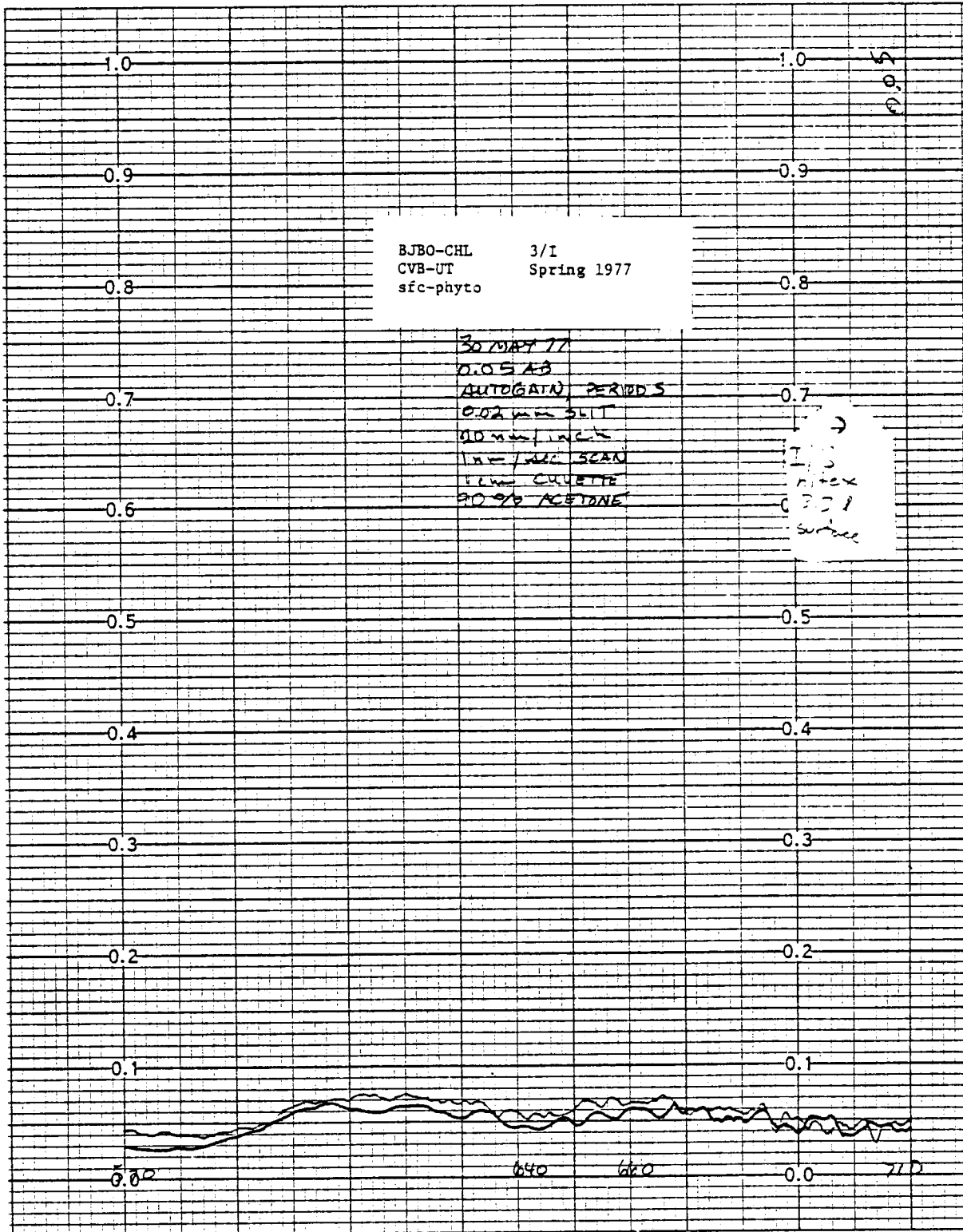


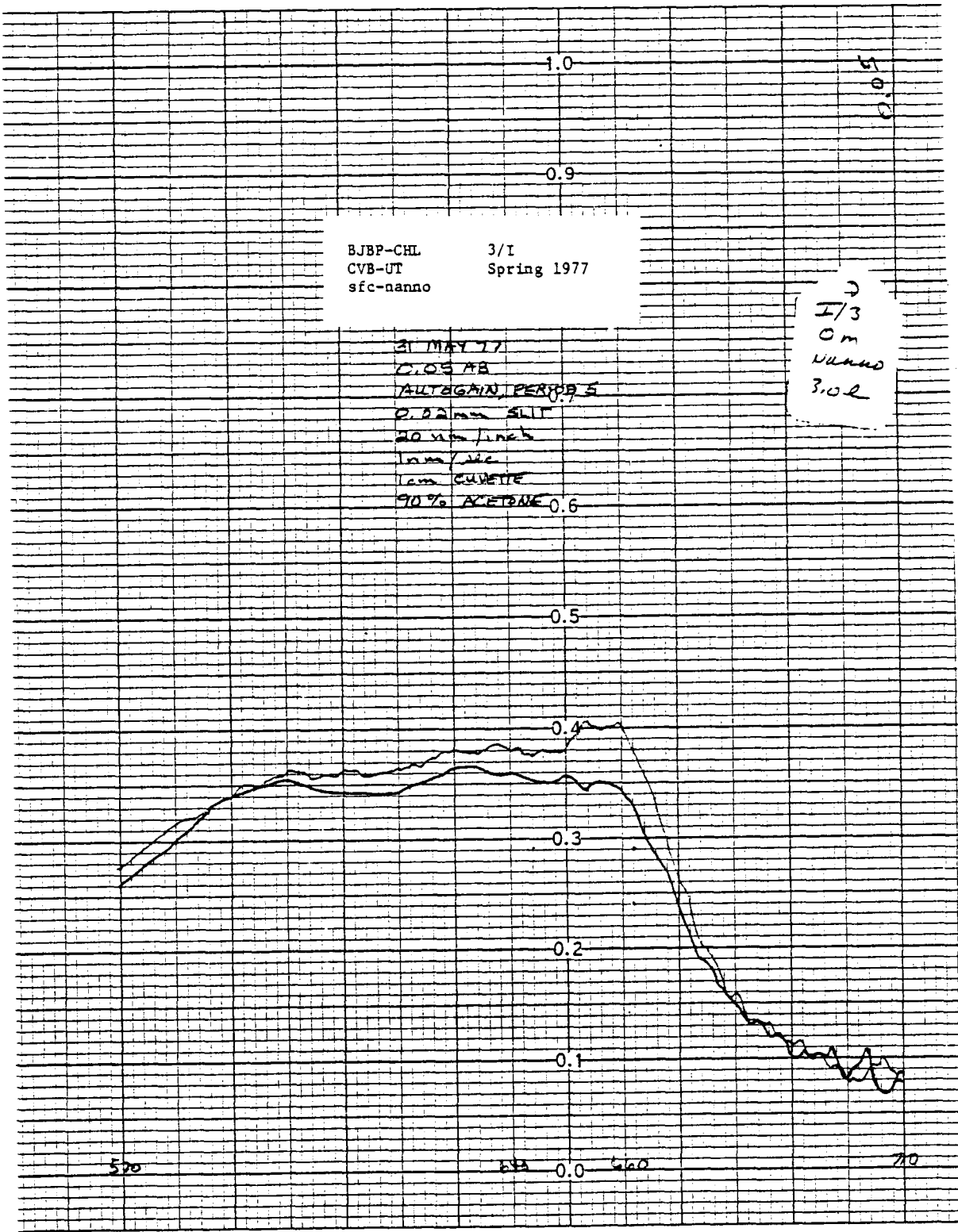


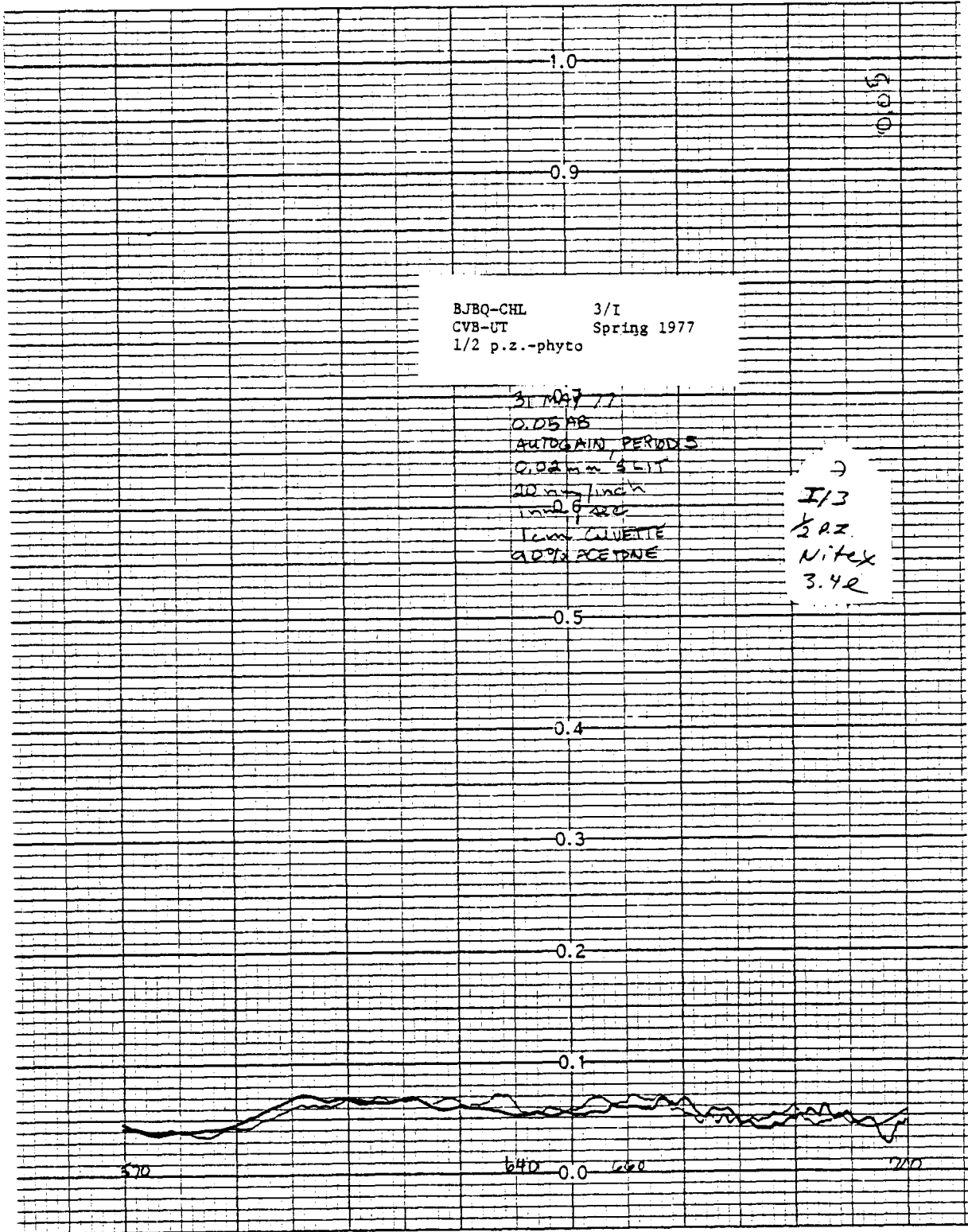


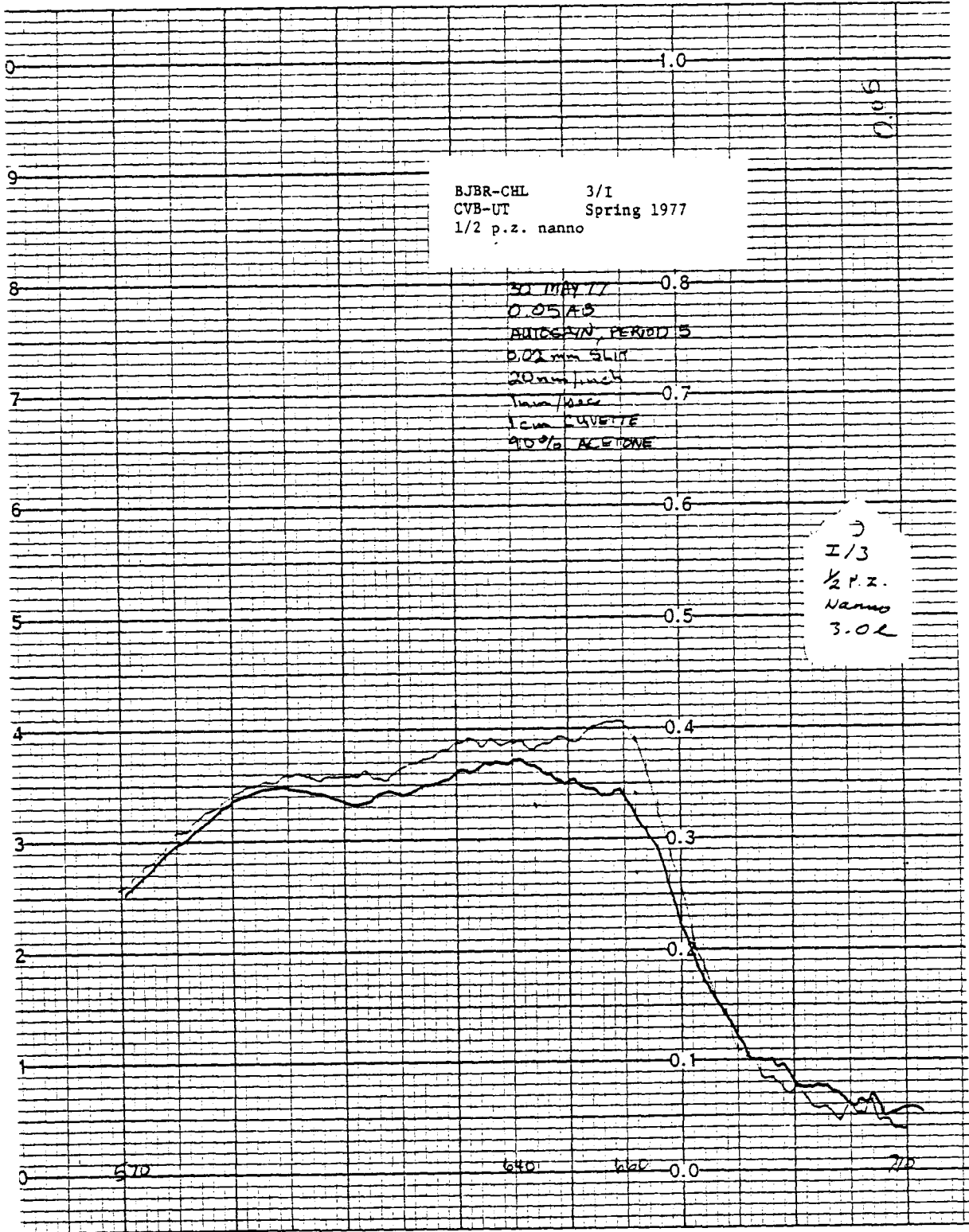


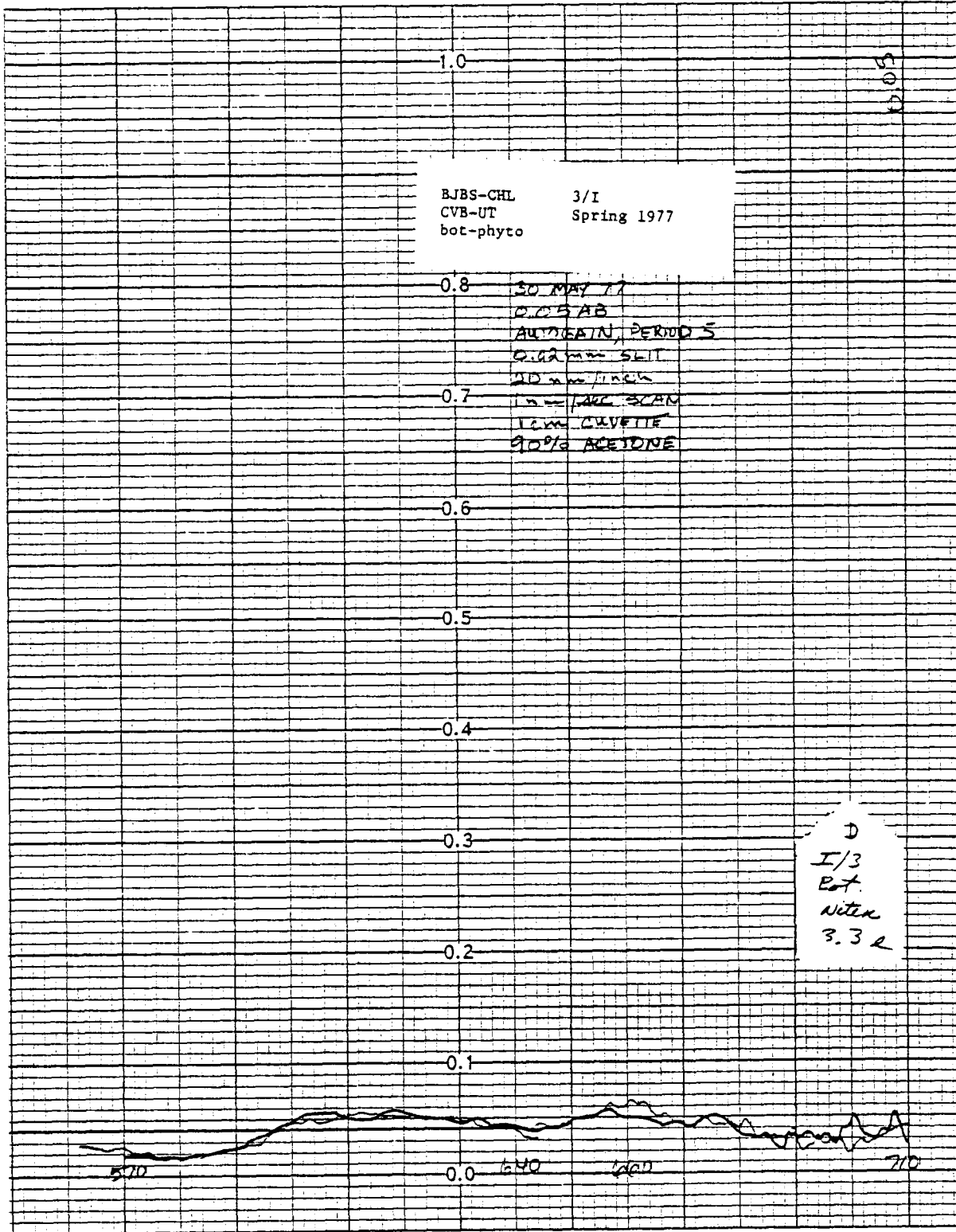


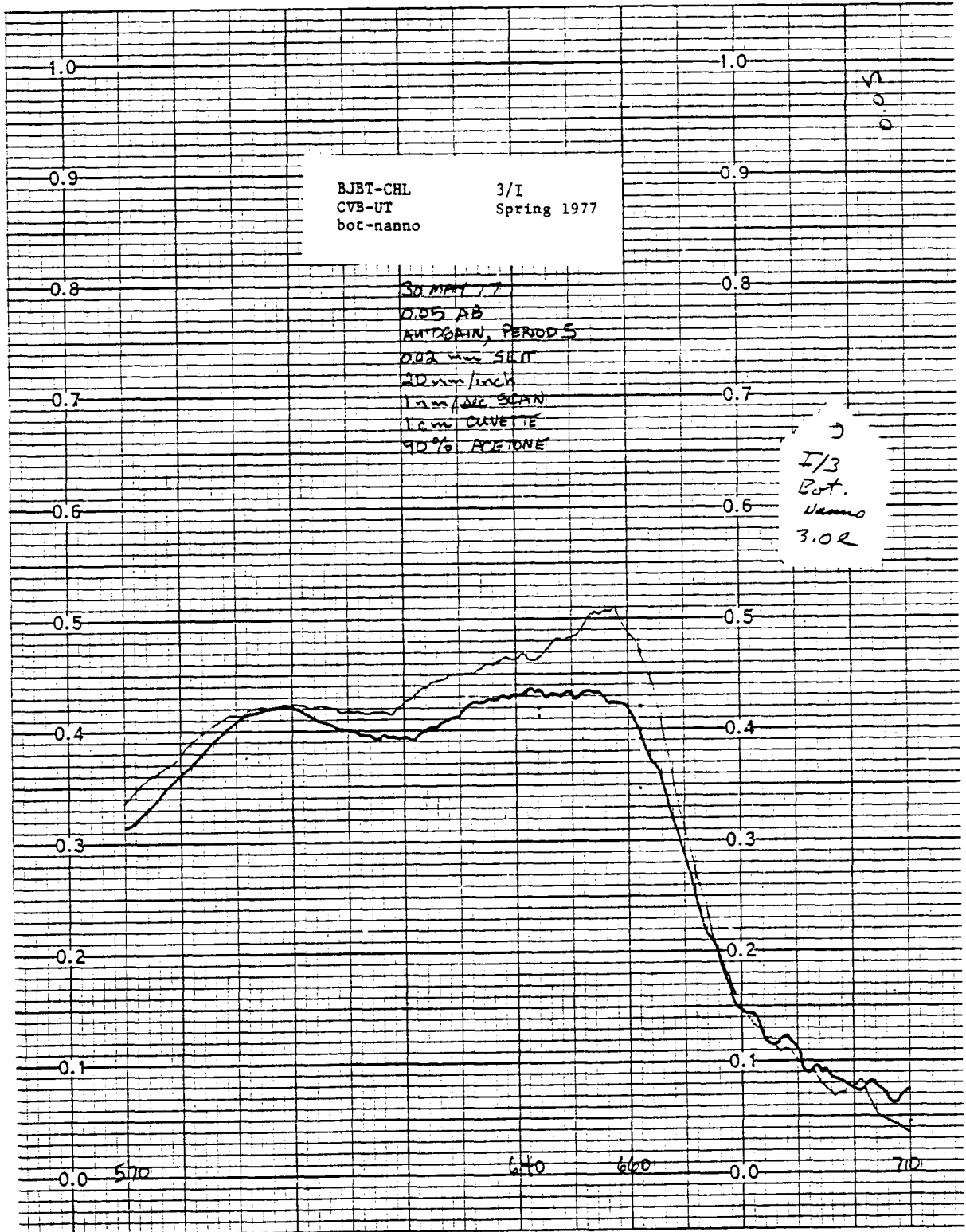




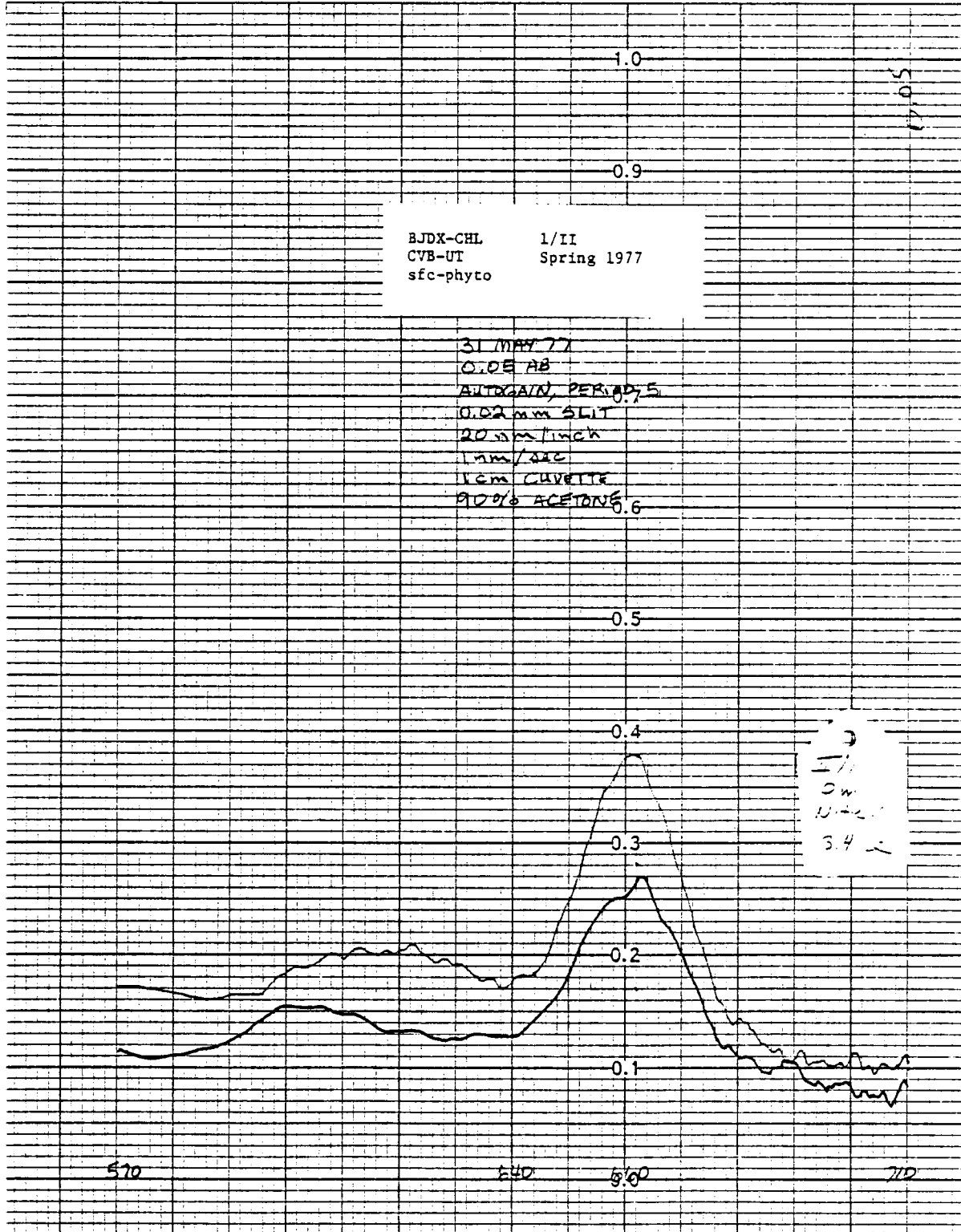










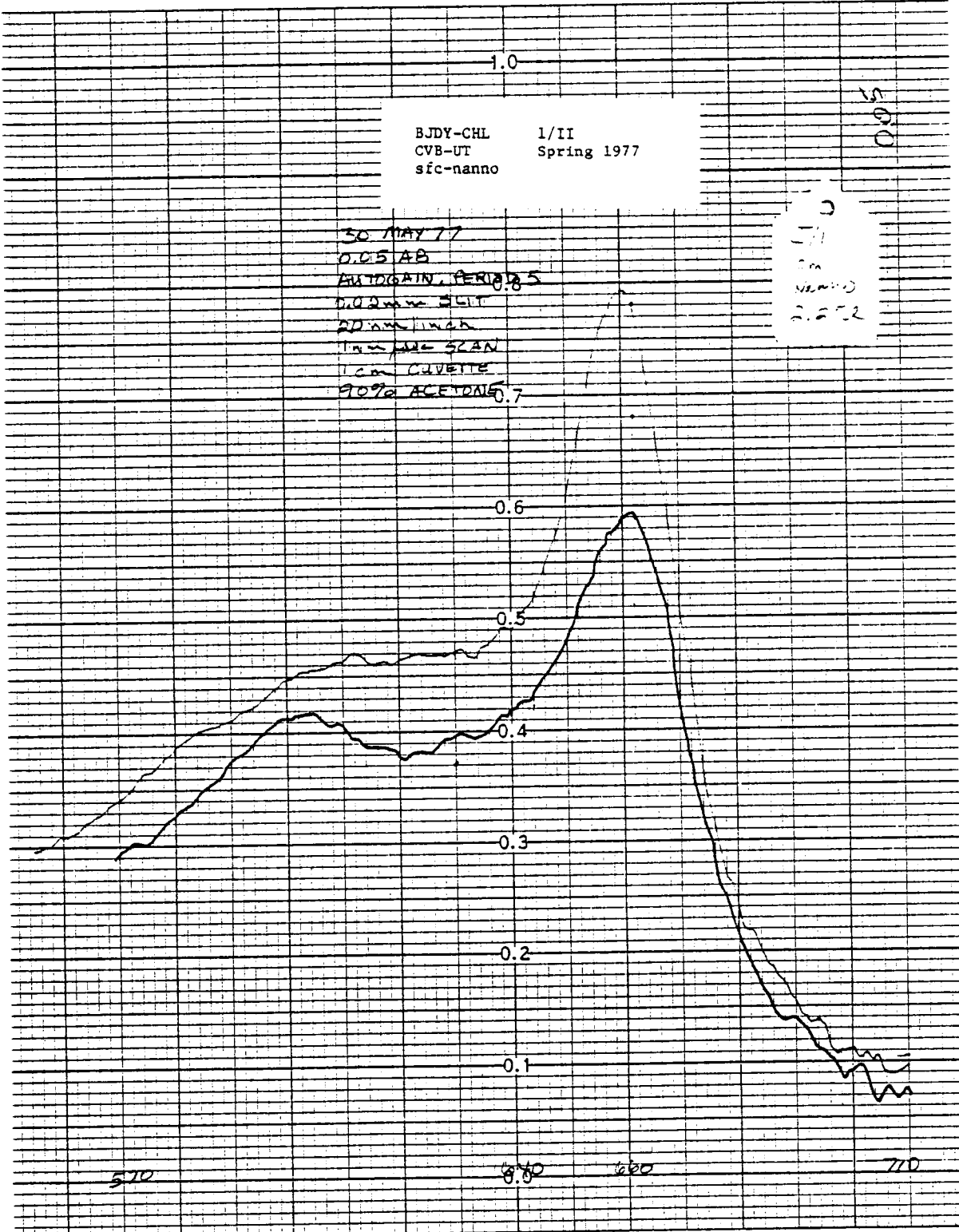


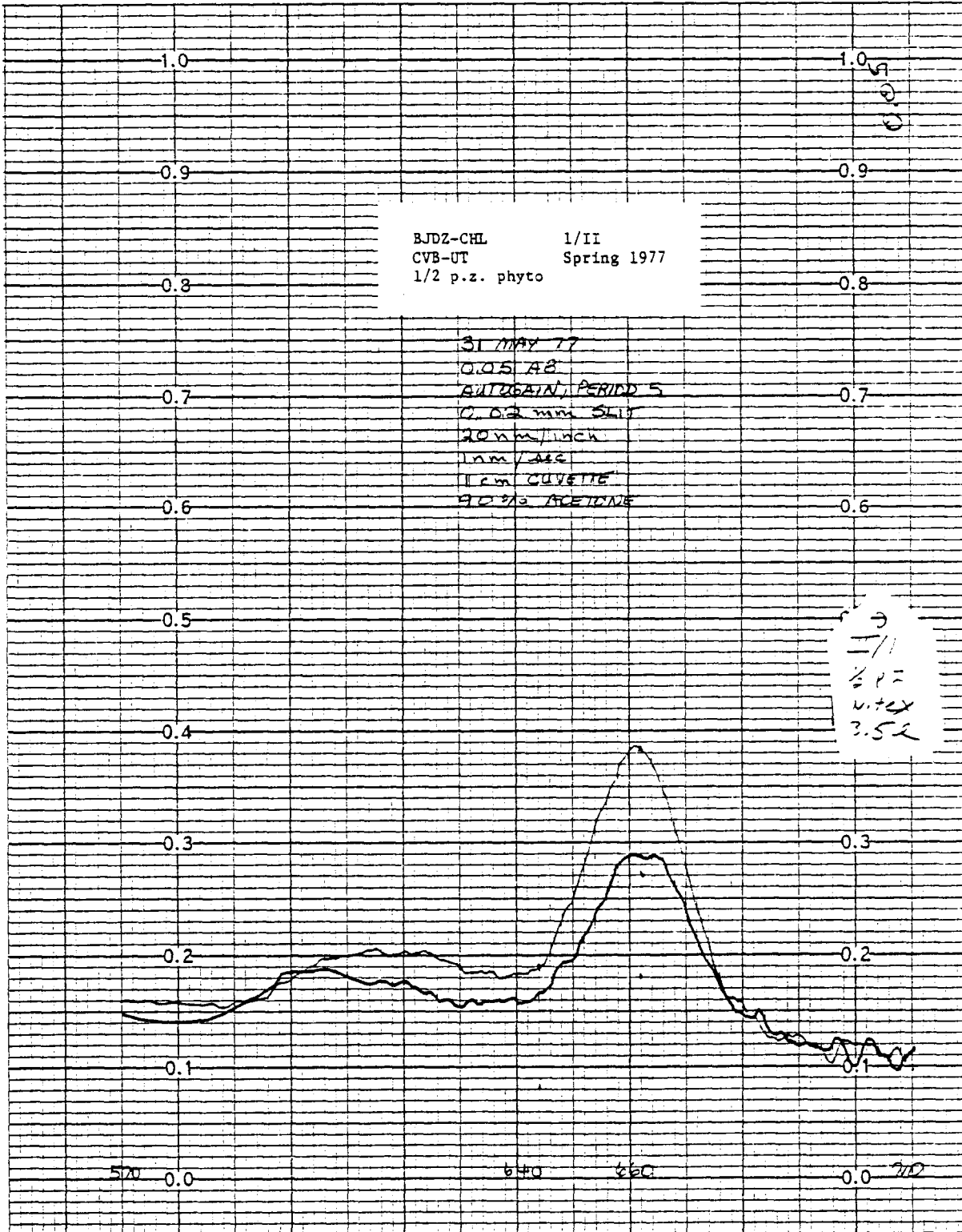
BJDY-CHL 1/II  
CVB-UT Spring 1977  
sic-nanno

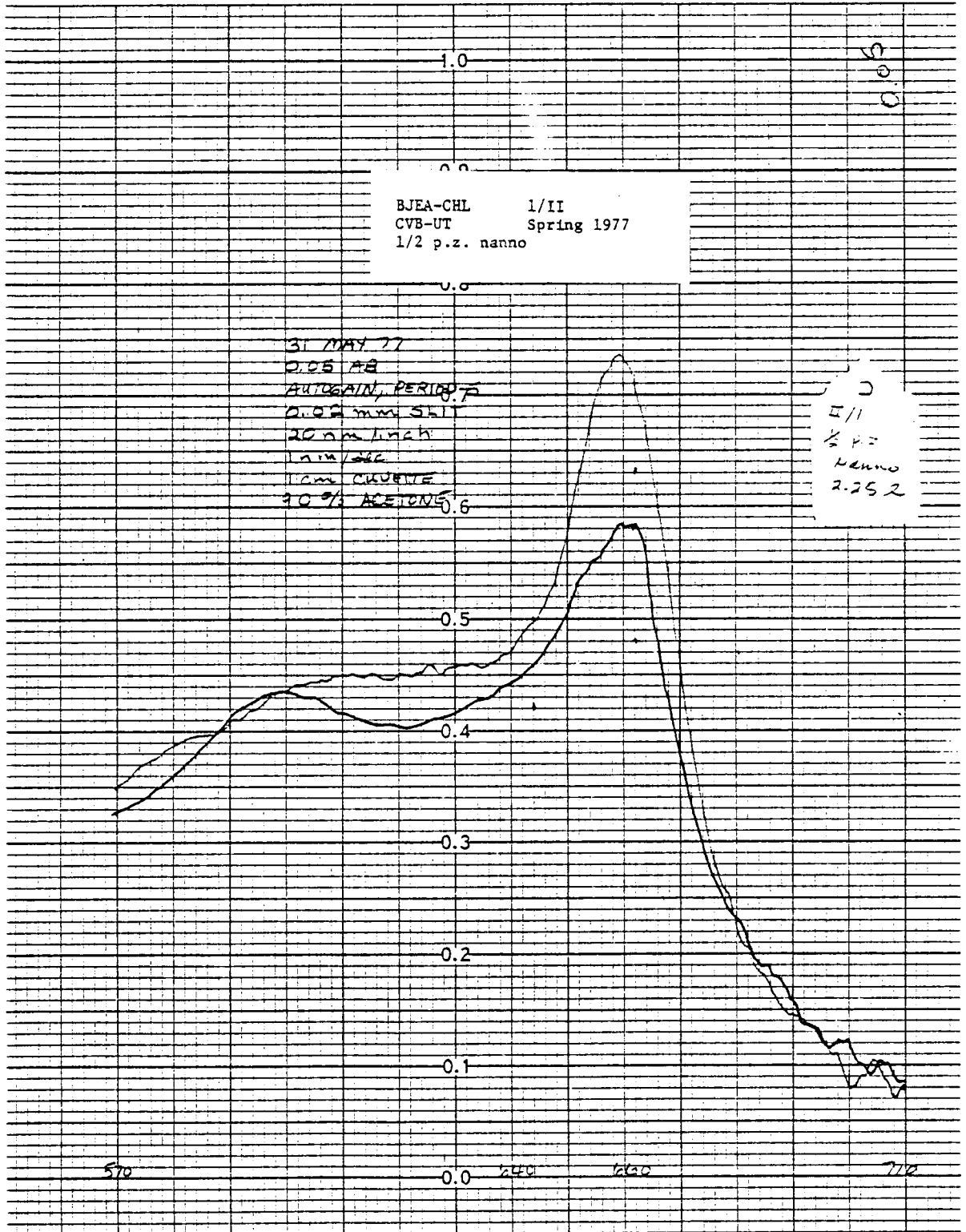
0.05

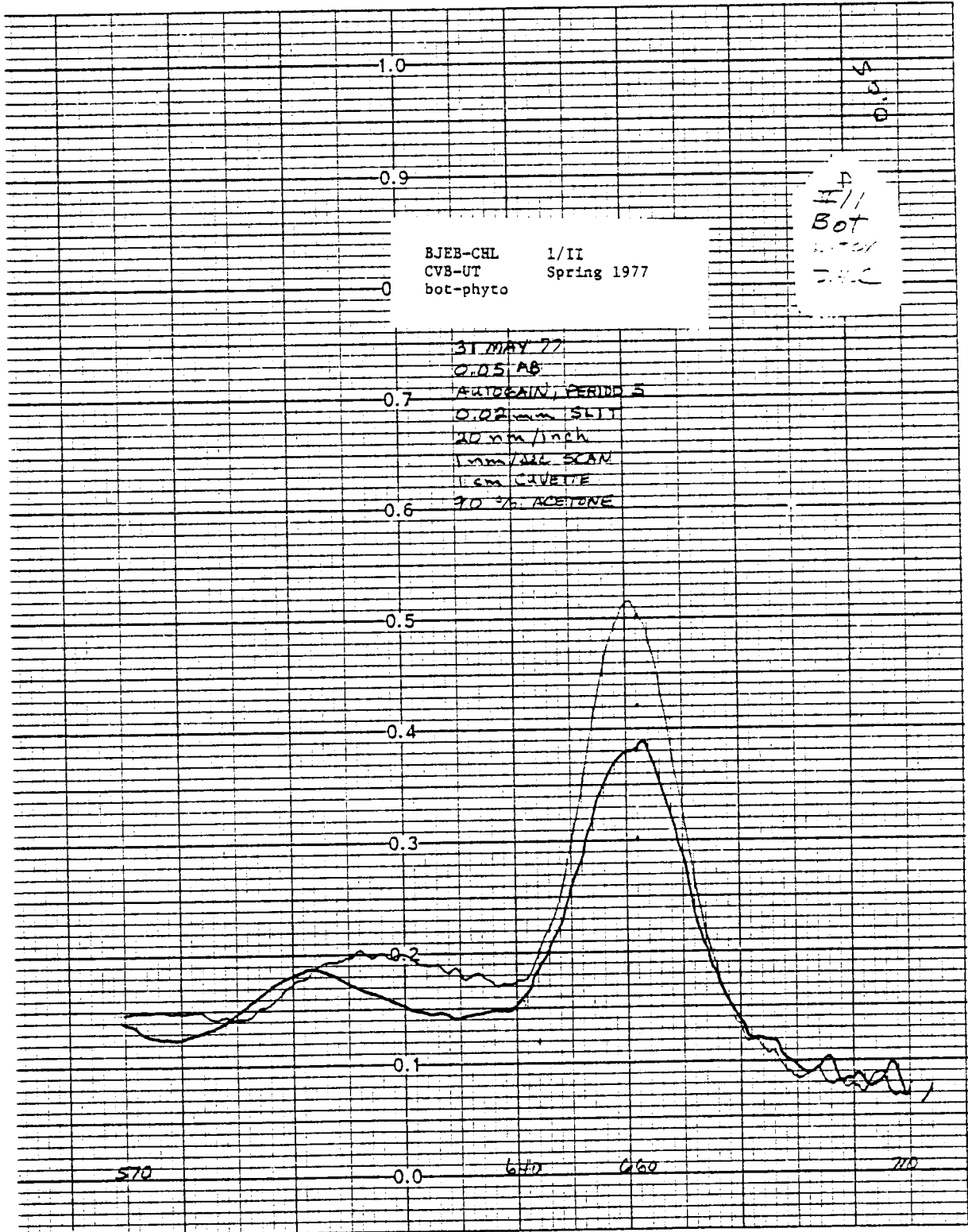
30 MAY 77  
0.05 AB  
AUTOGAIN, PERIOD 5  
0.02mm SLIT  
20 AMP INCH  
TEMPERATURE SCAN  
1cm CUVETTE  
90% ACETONE 0.7

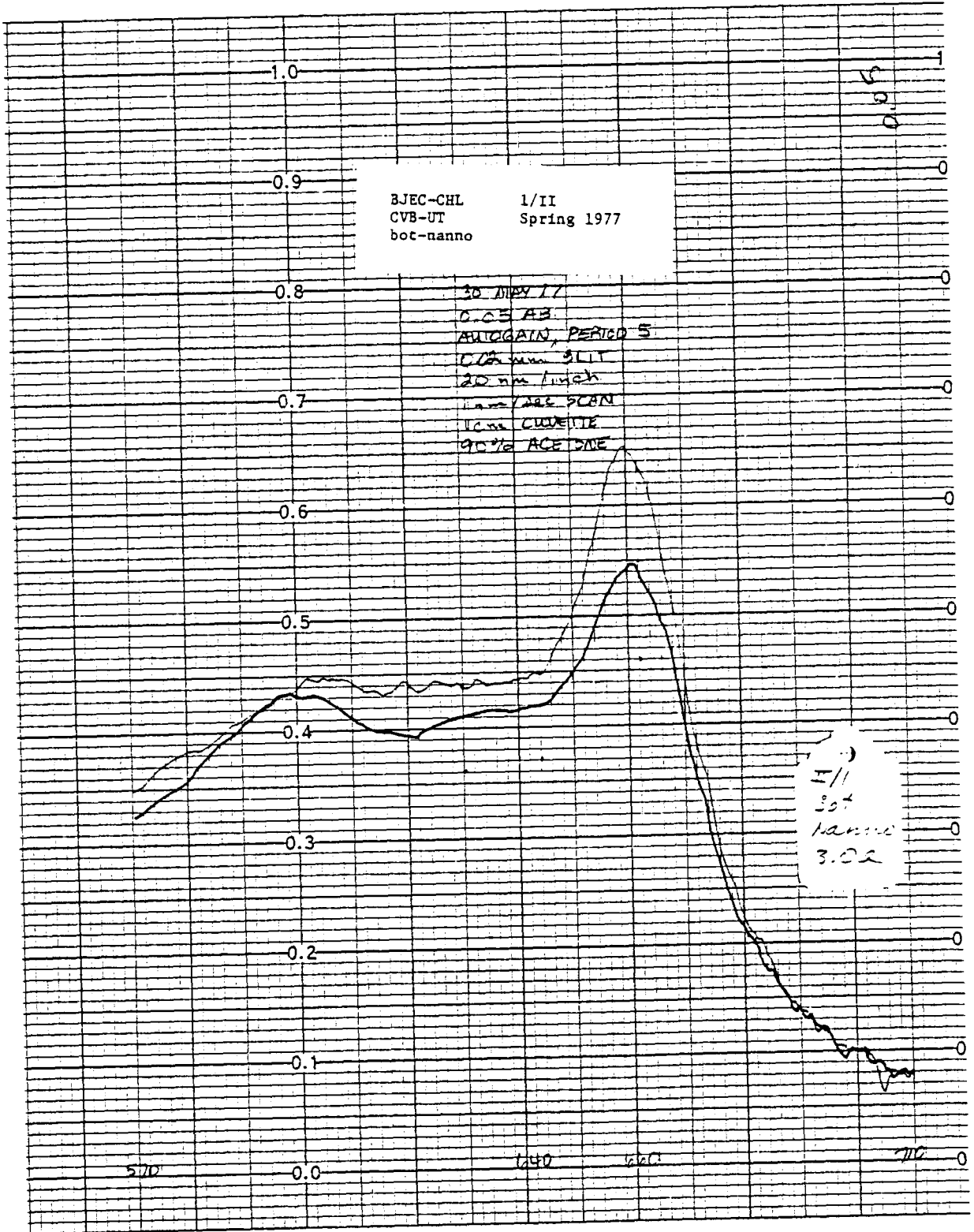
0  
1/II  
sic-nanno  
2.552







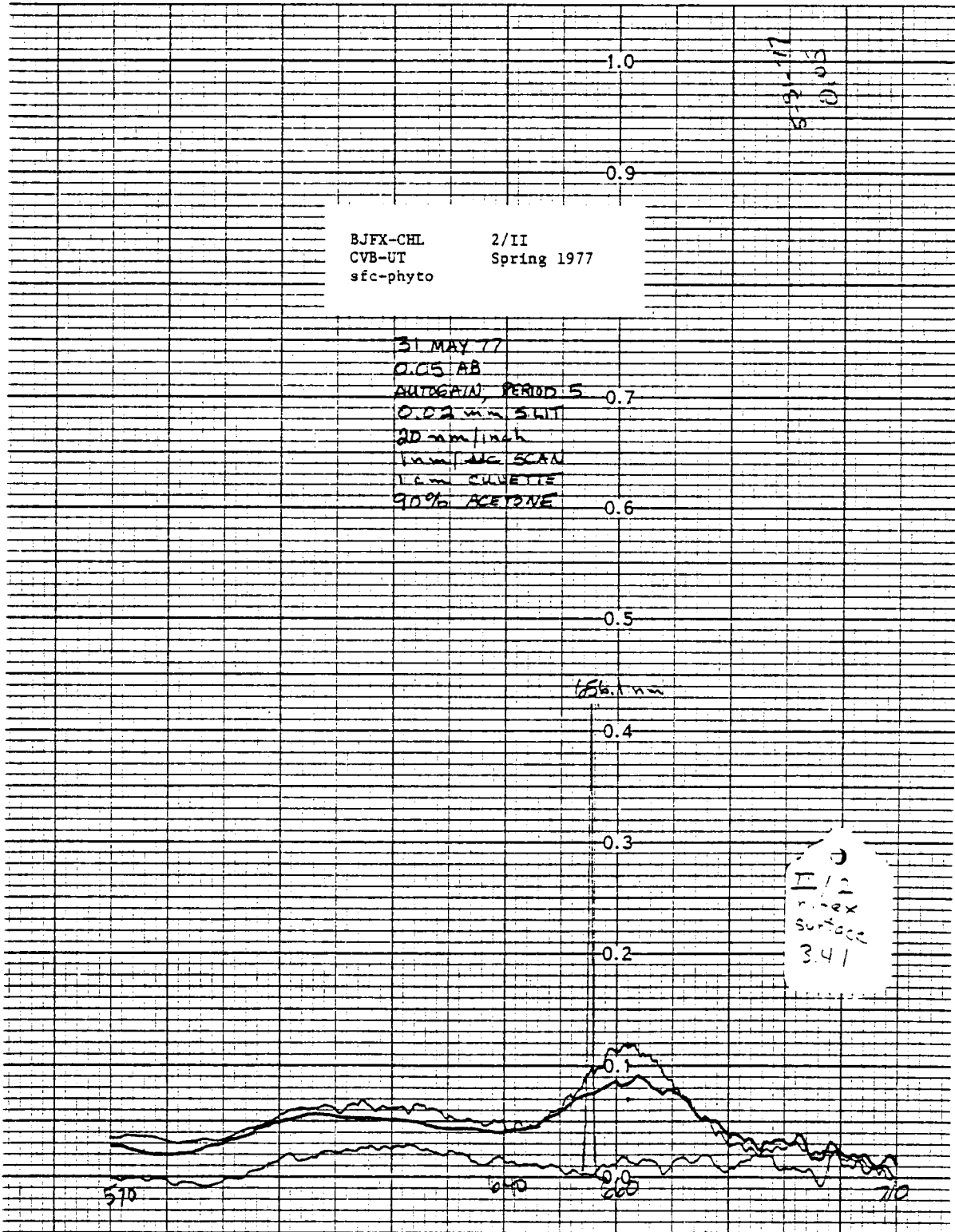


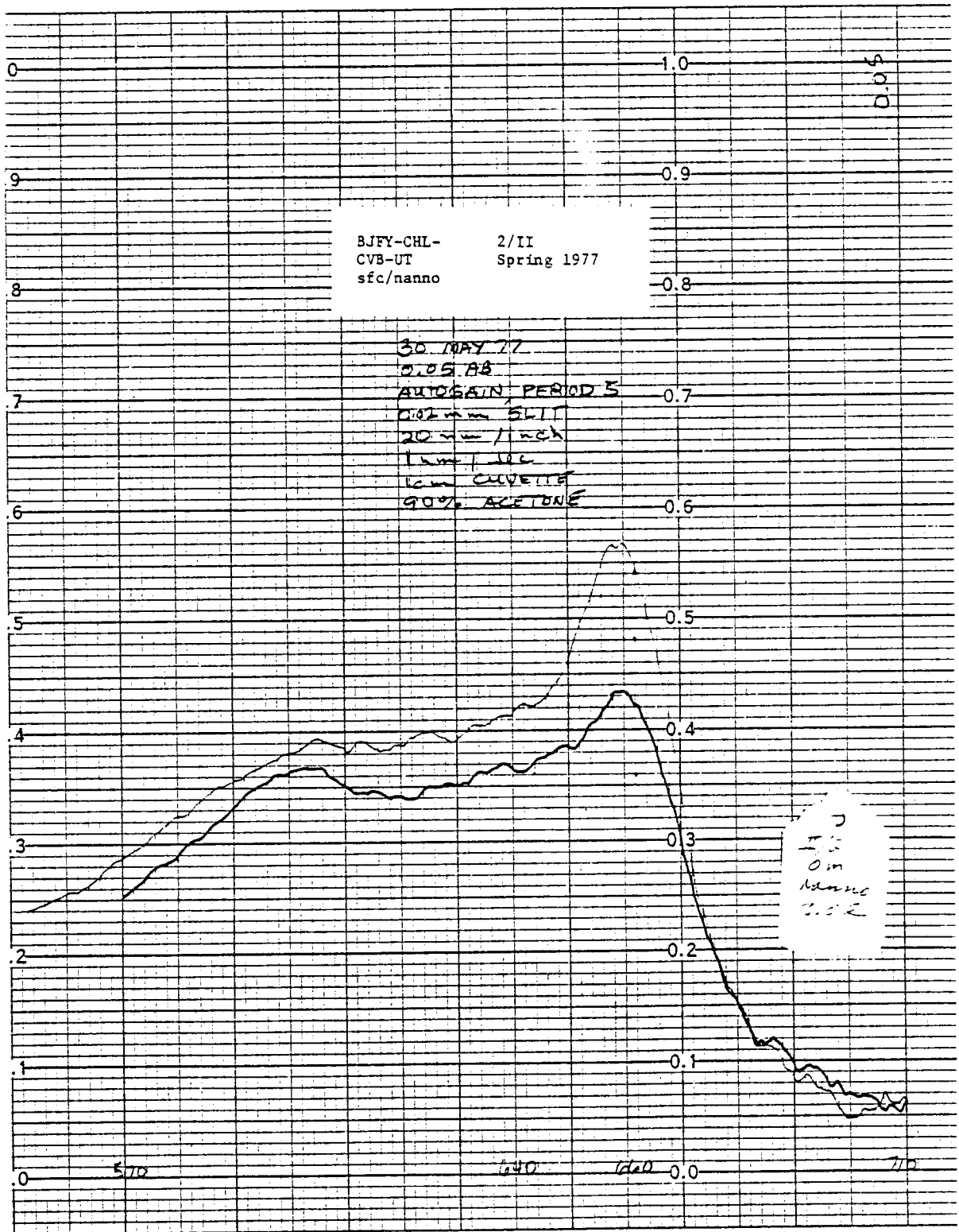


BJEC-CHL 1/11  
CVB-UT Spring 1977  
bot-nanno

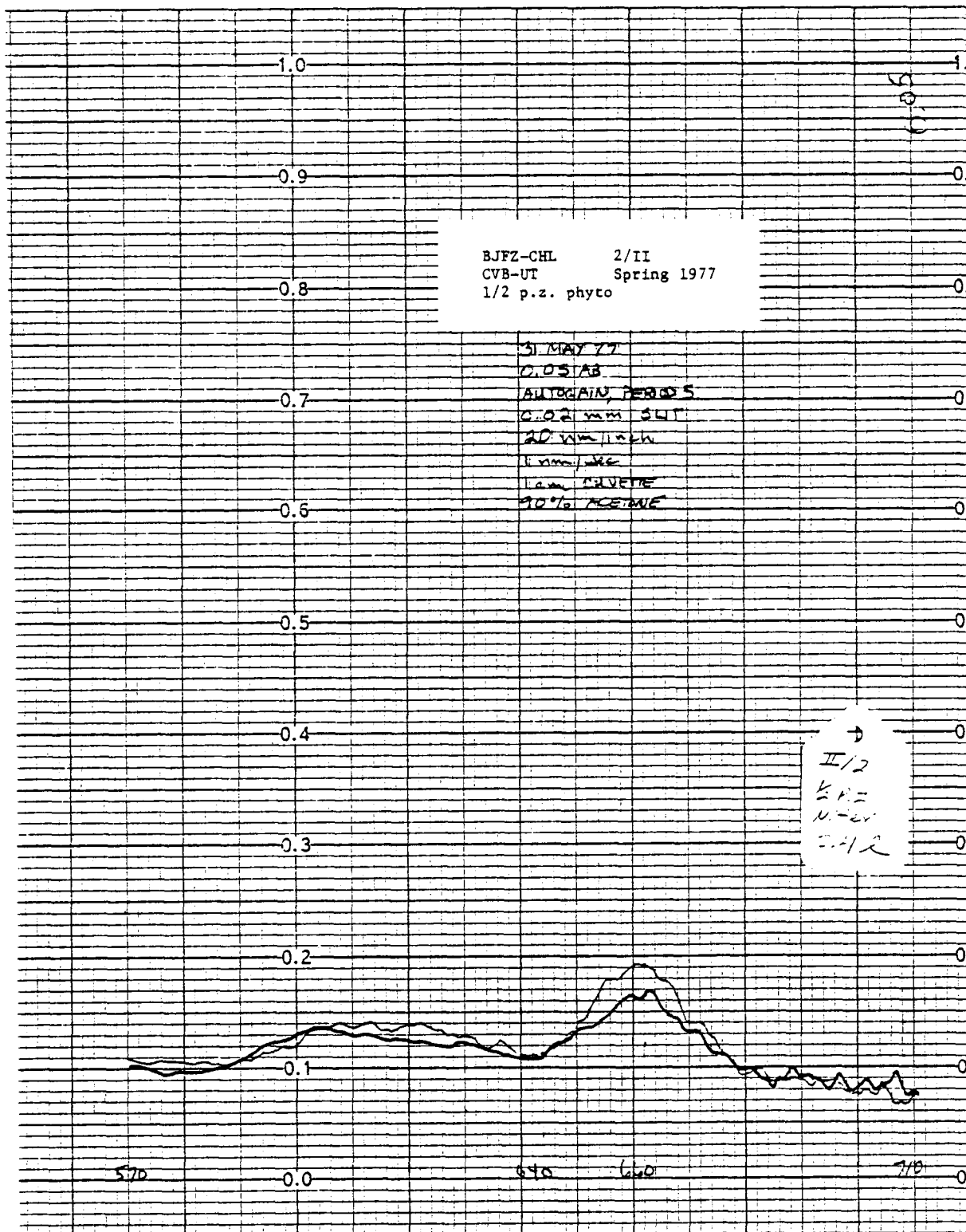
30 MAY 77  
0.05 AB  
AUTOGAIN, PERIOD 5  
0.05 mm SLIT  
20 mm length  
1 mm/sec SCAN  
1 cm CURVE  
90% ACETONE

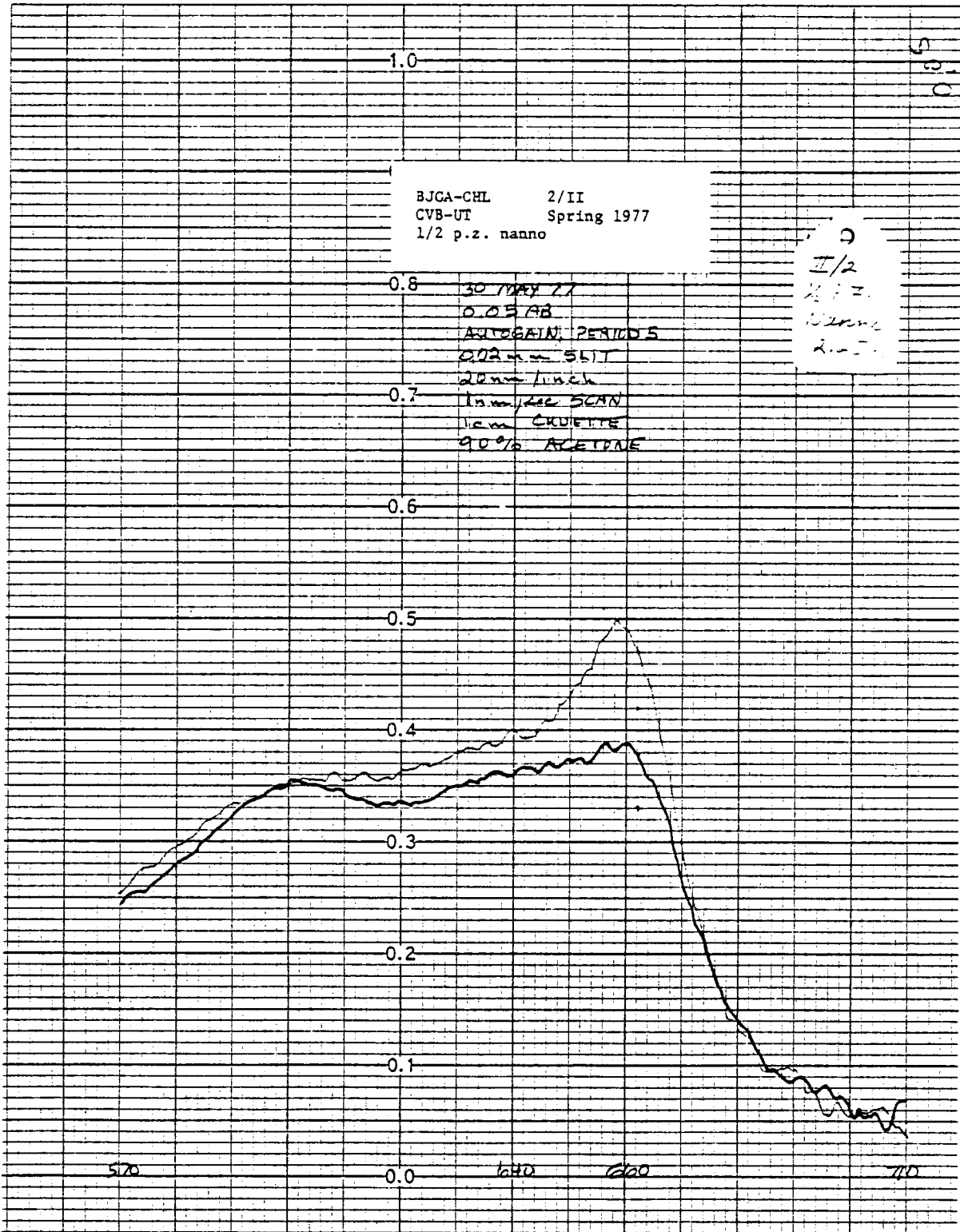
11  
30  
nanno  
3.02

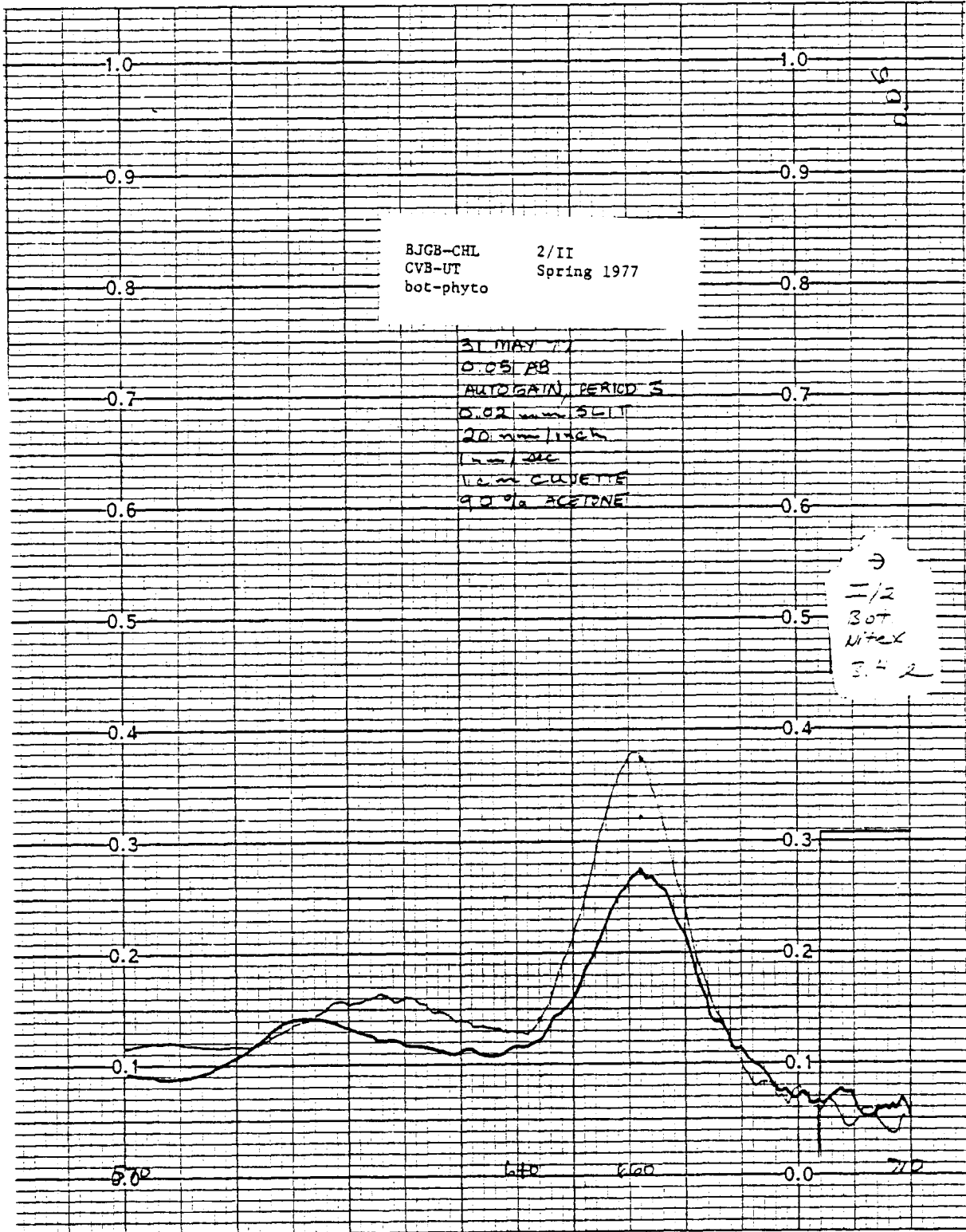


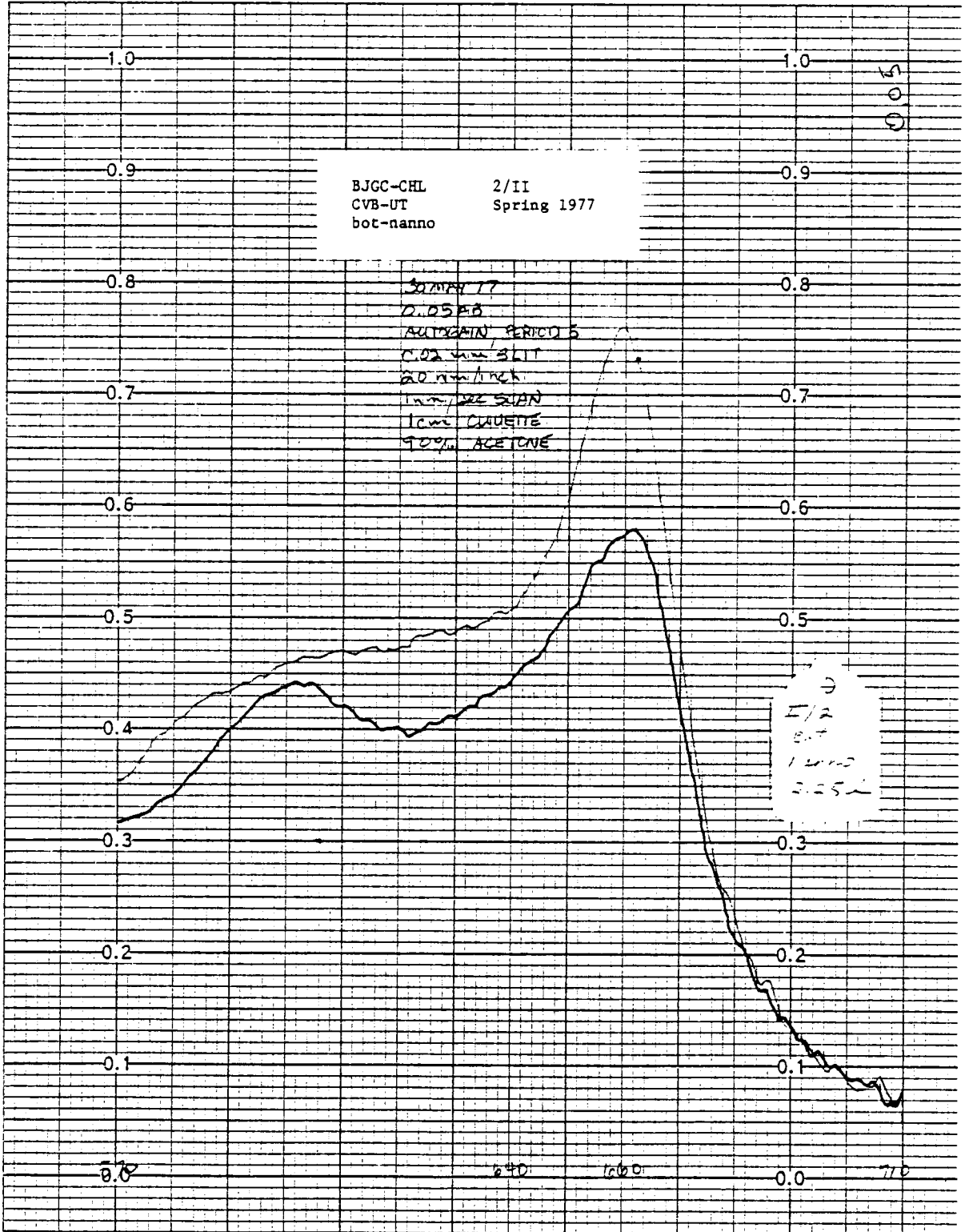


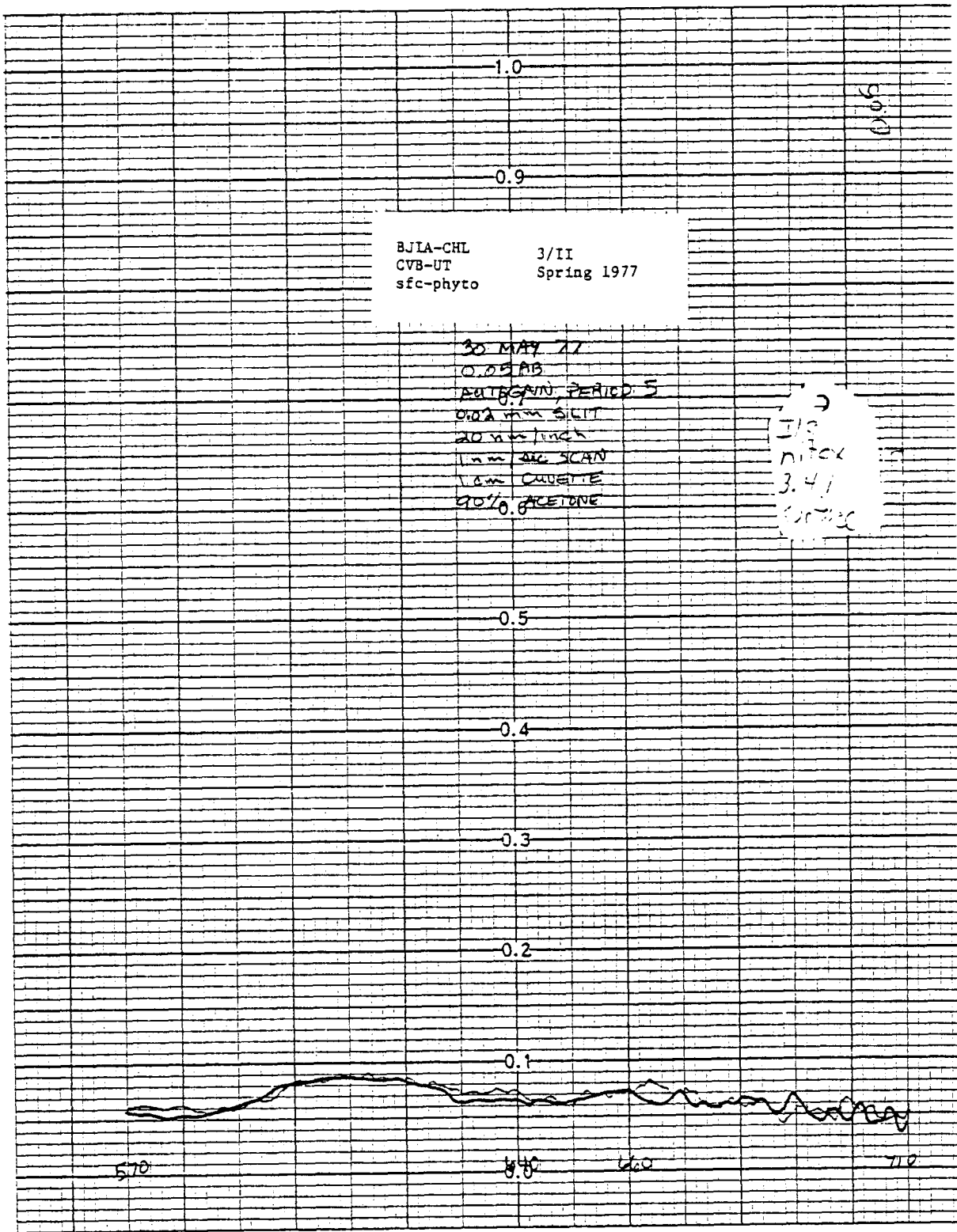


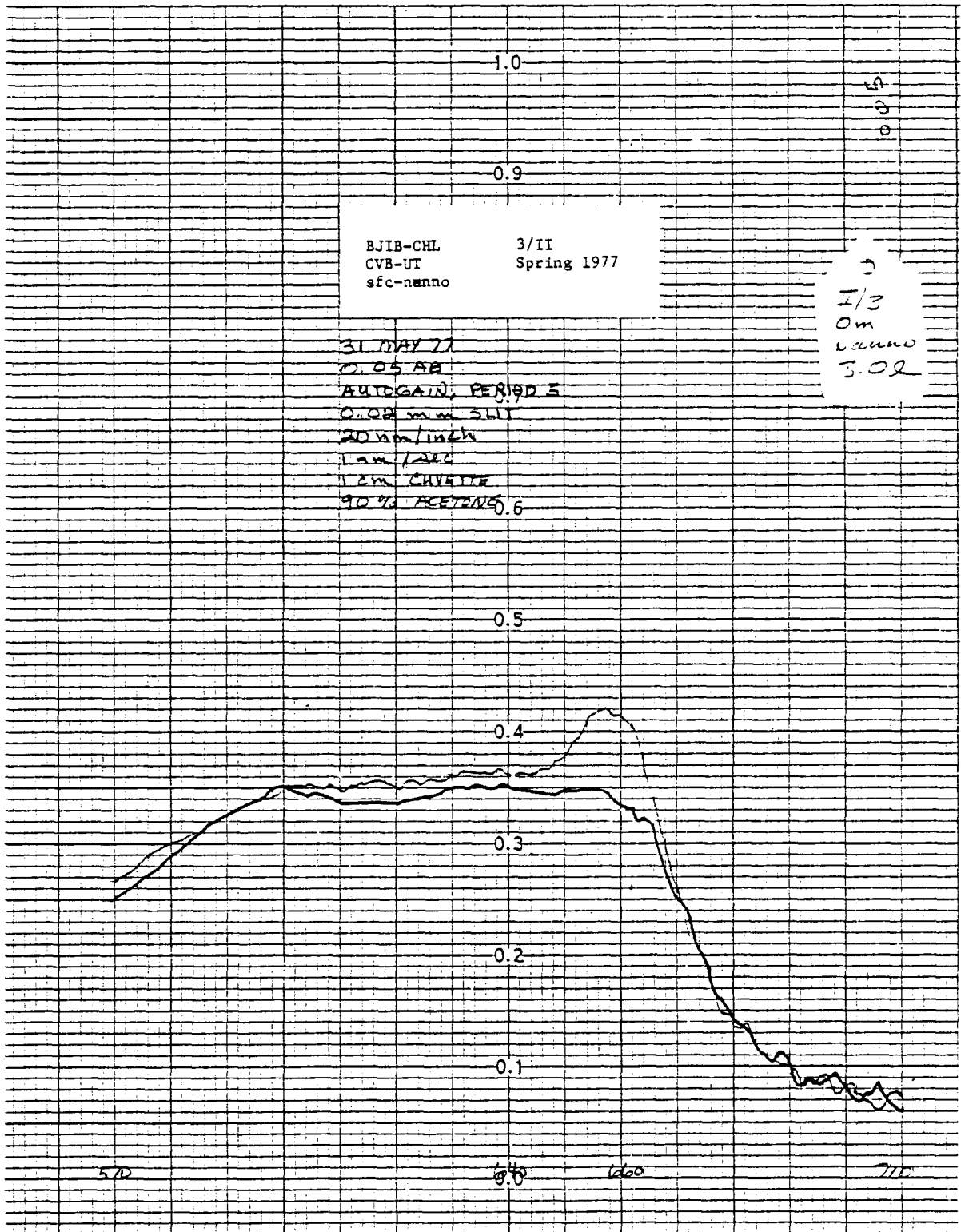


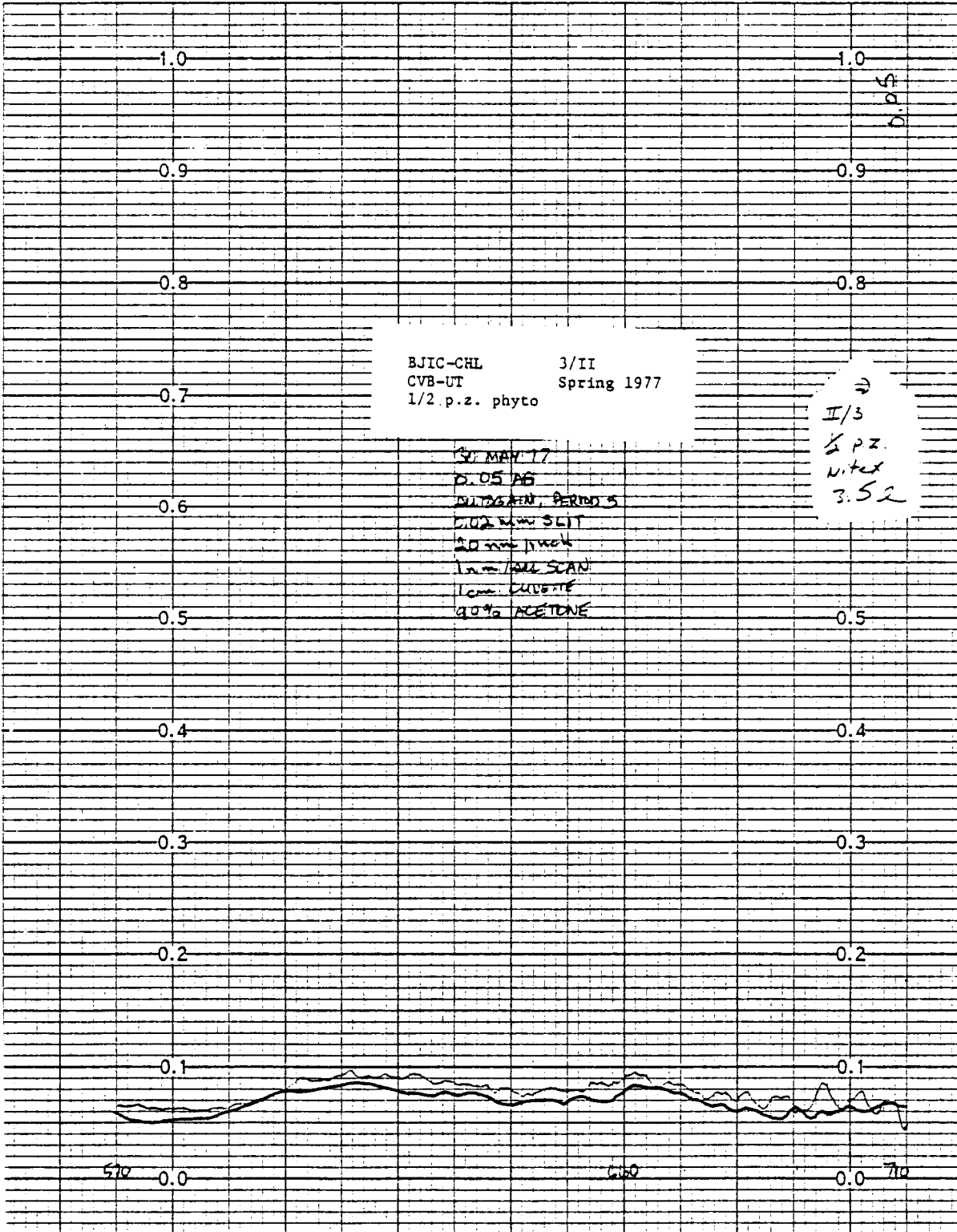






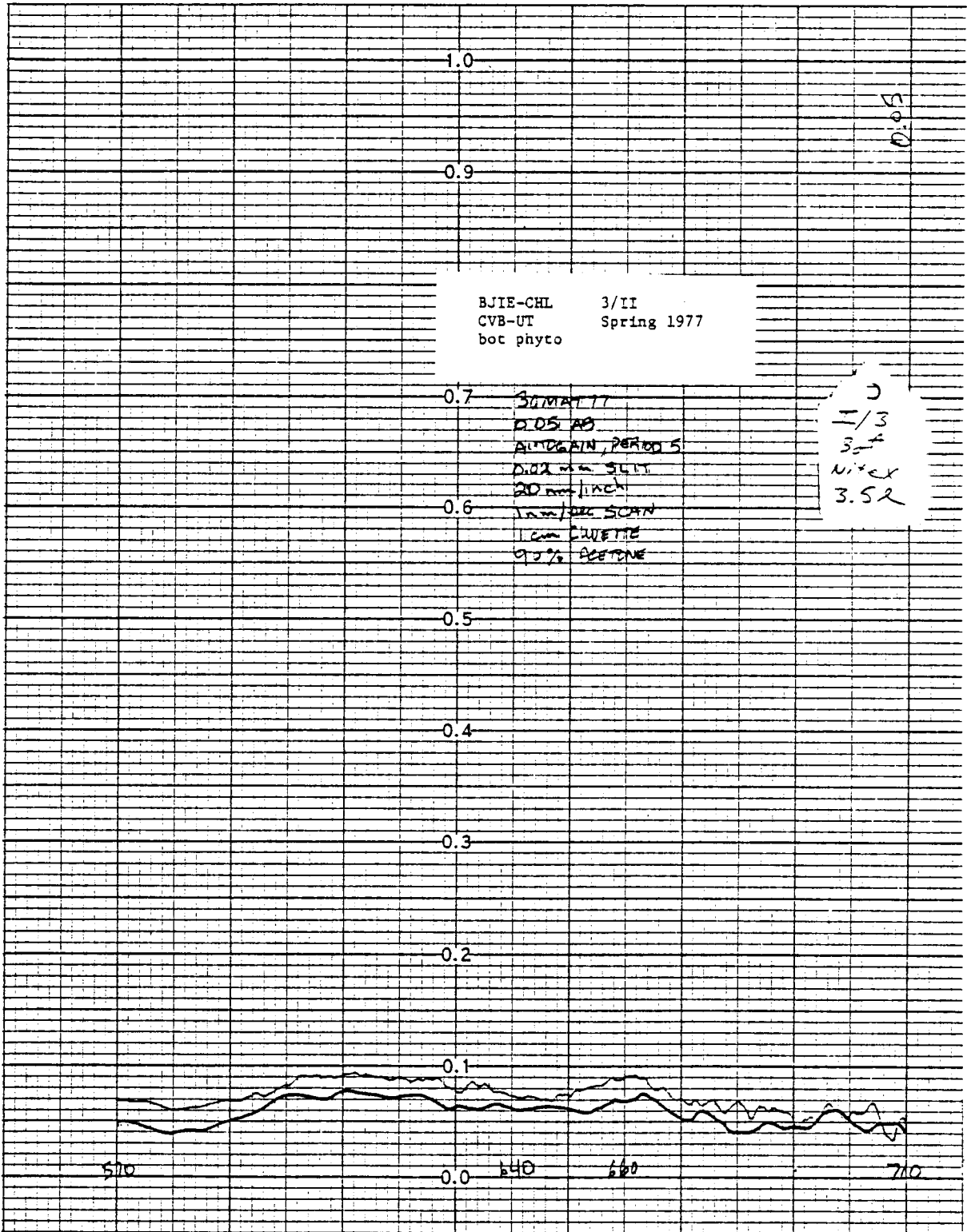


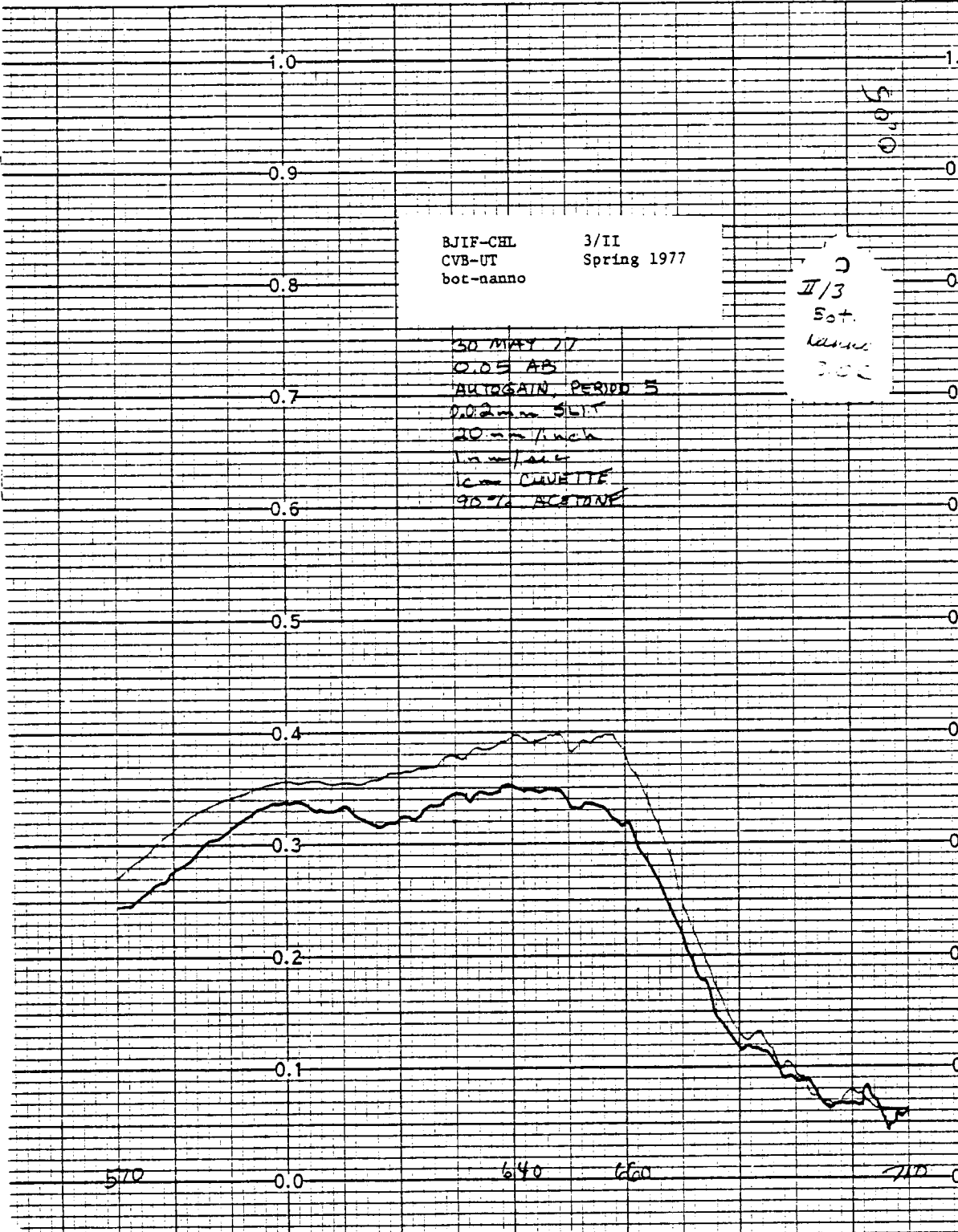


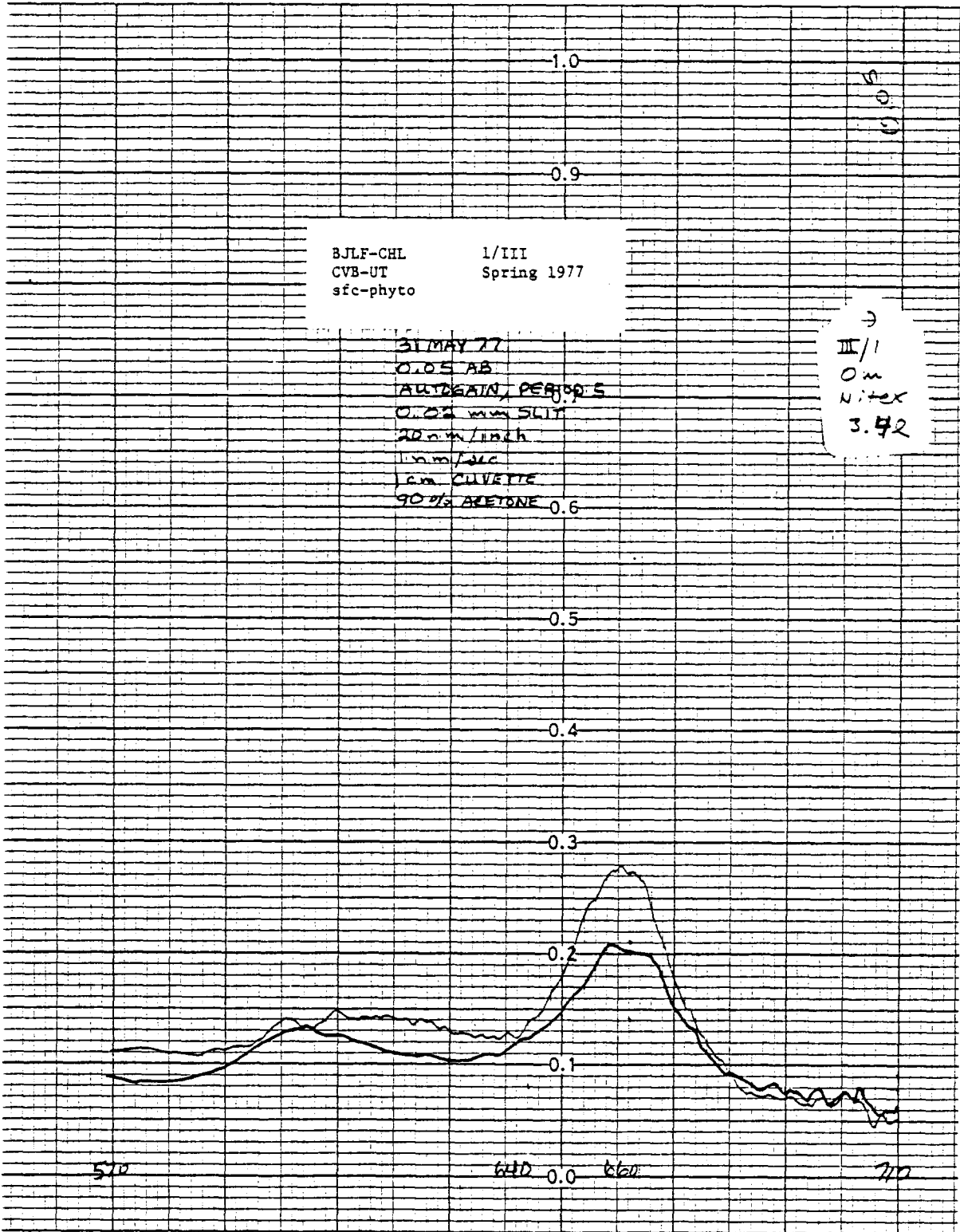


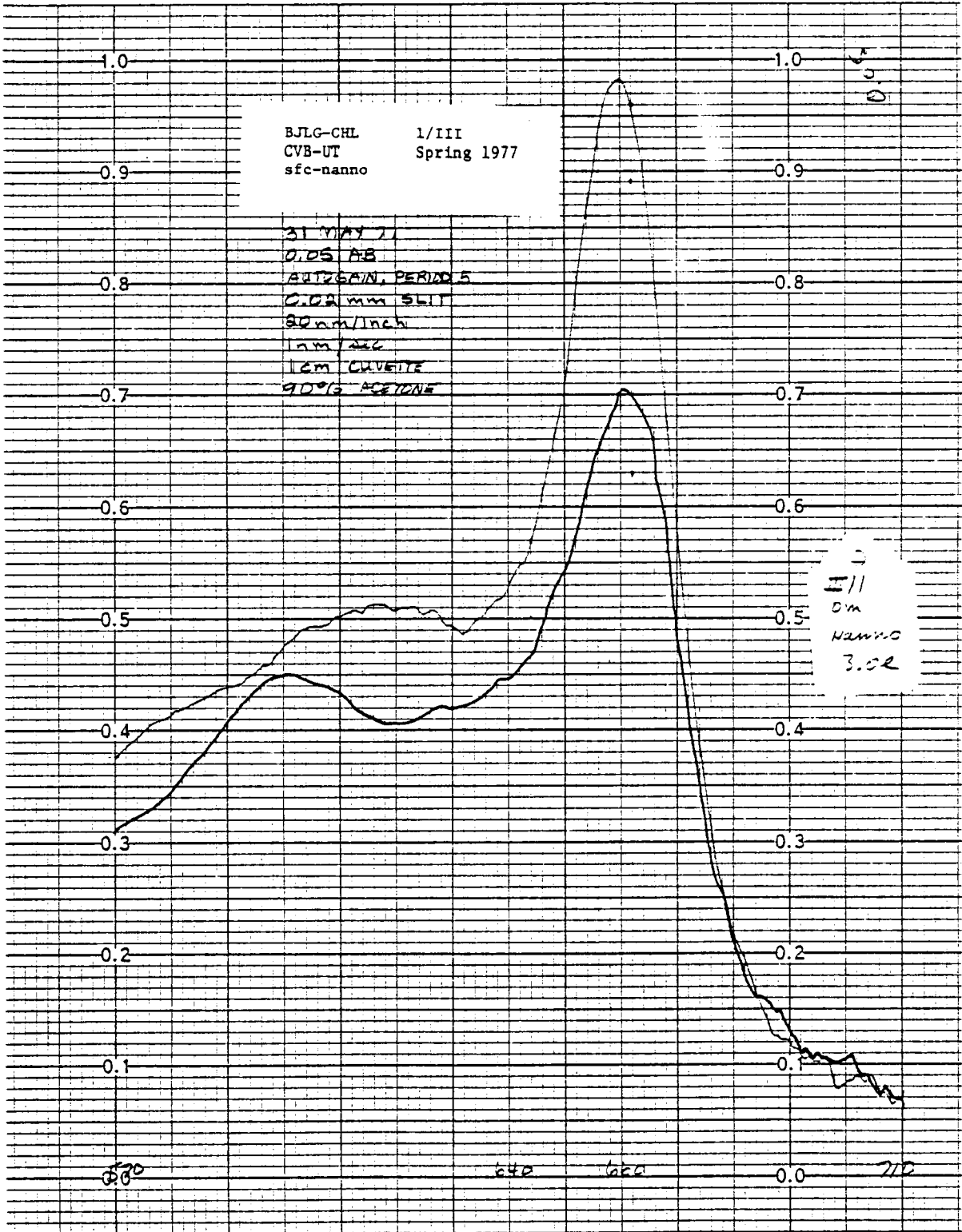


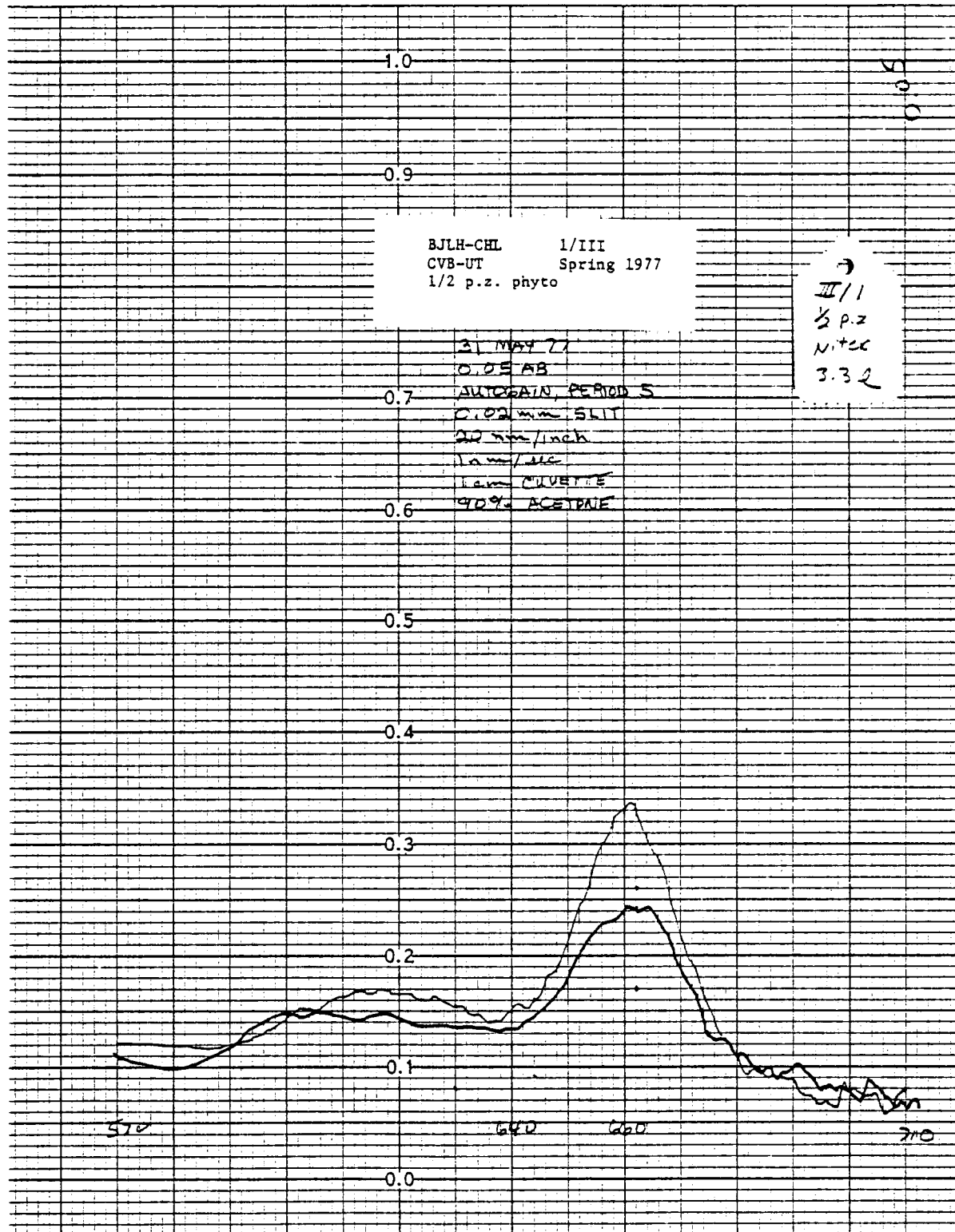


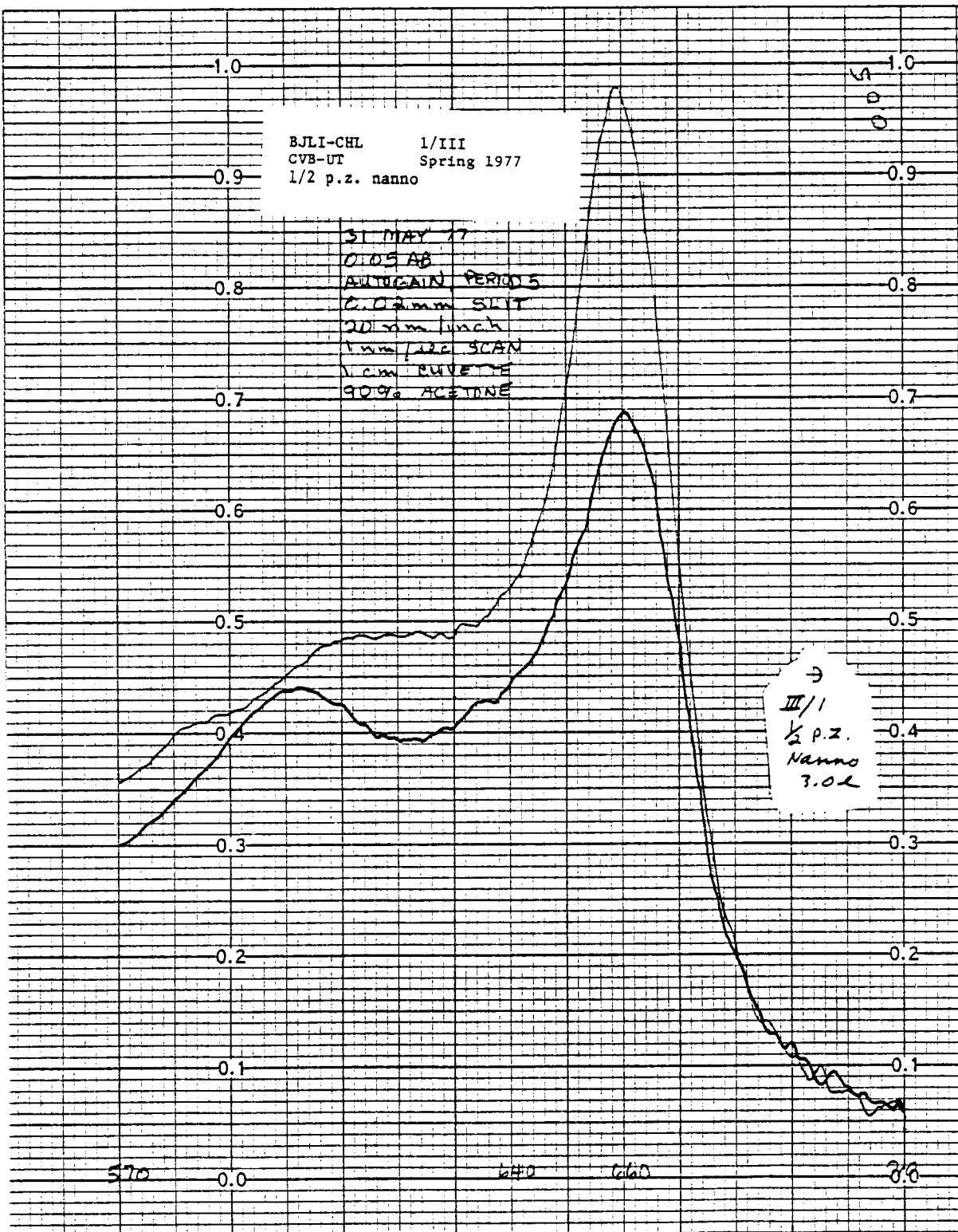


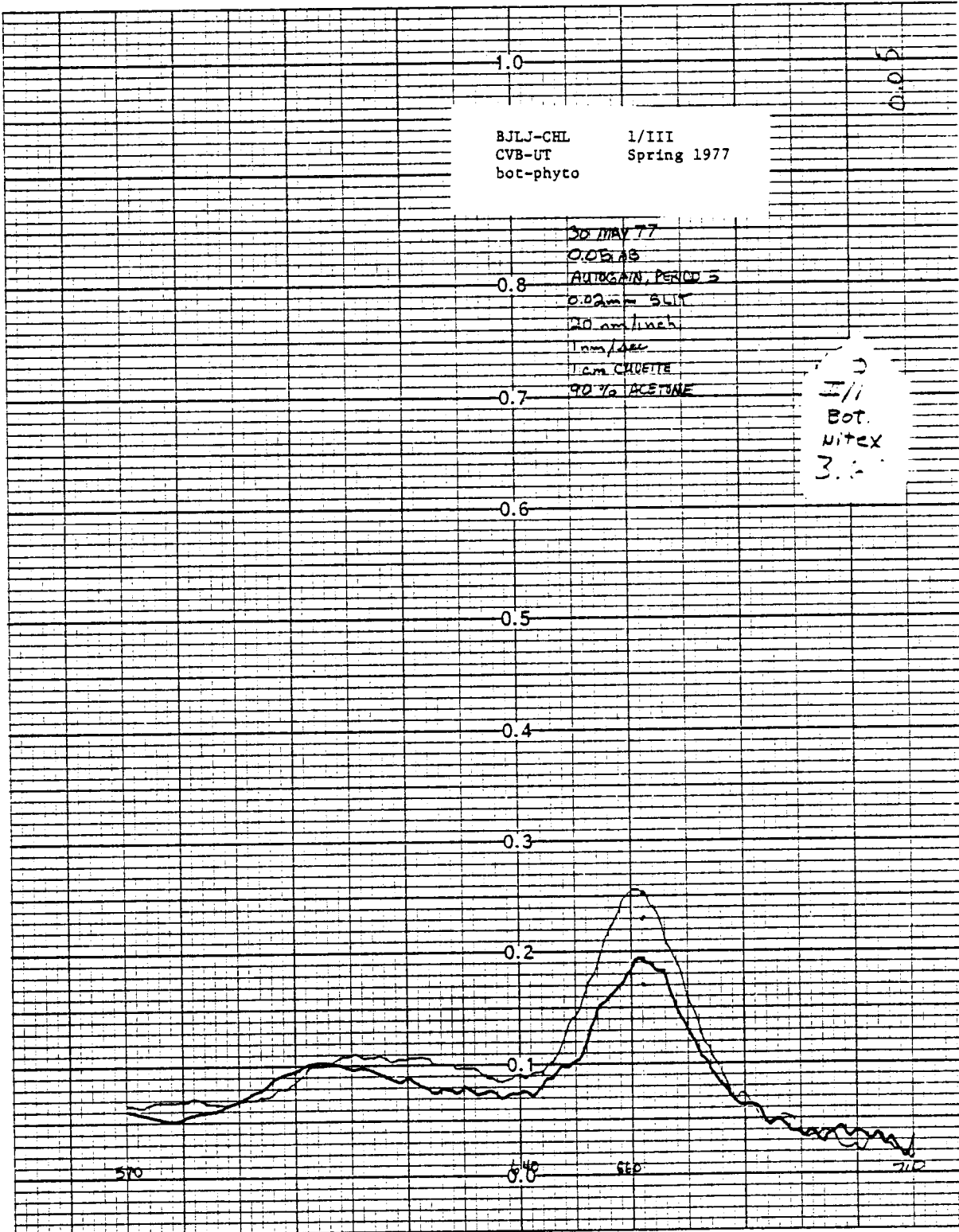


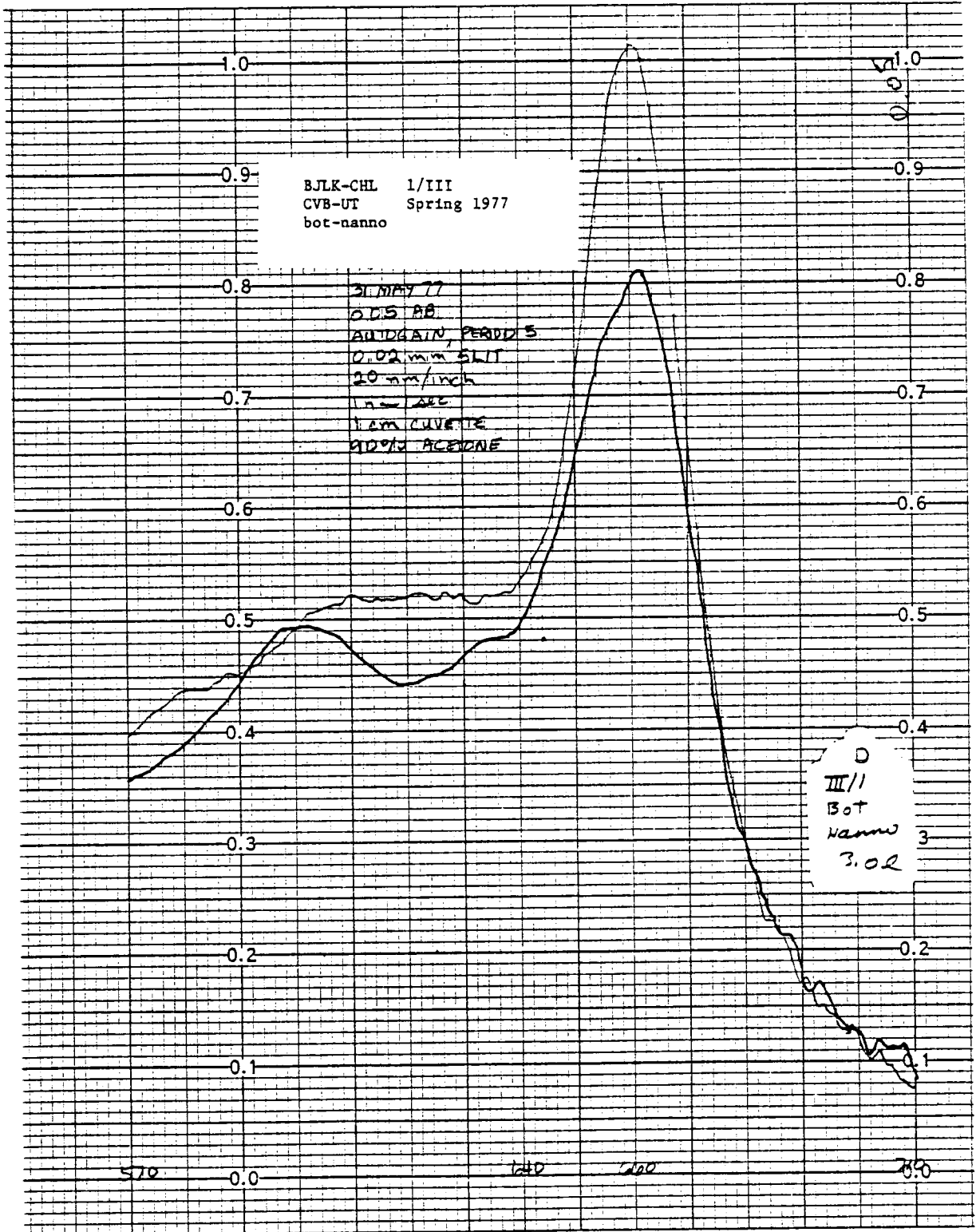




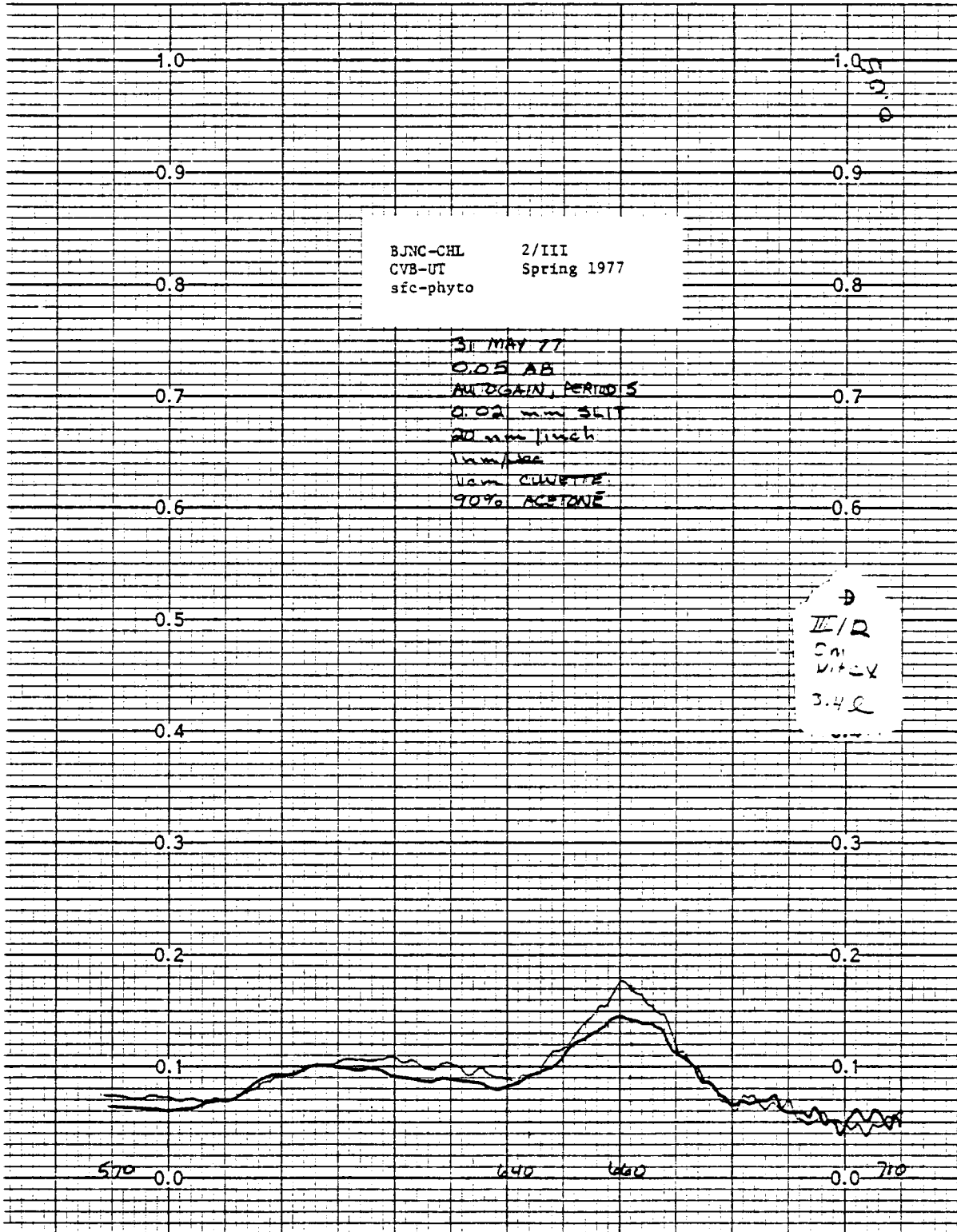


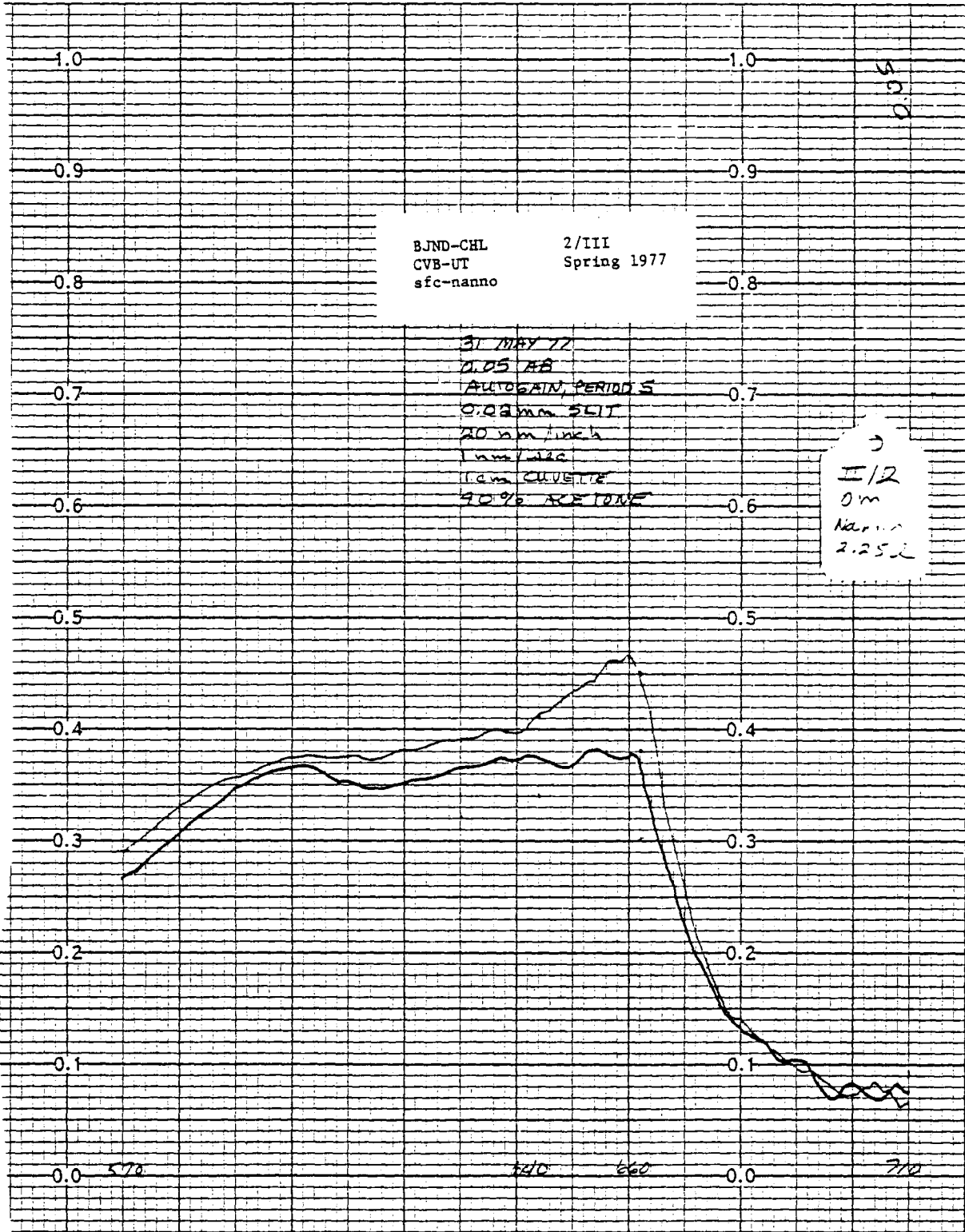


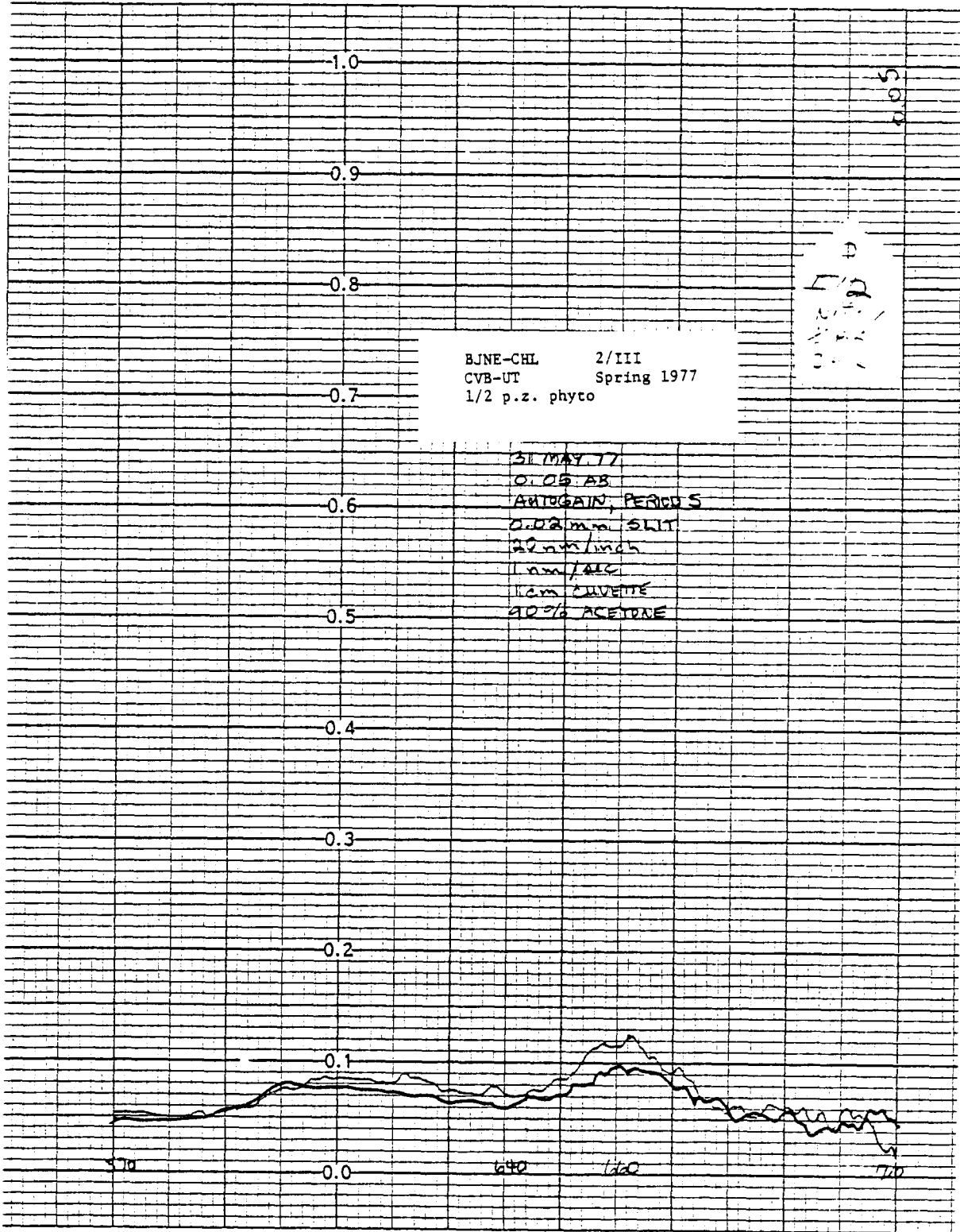


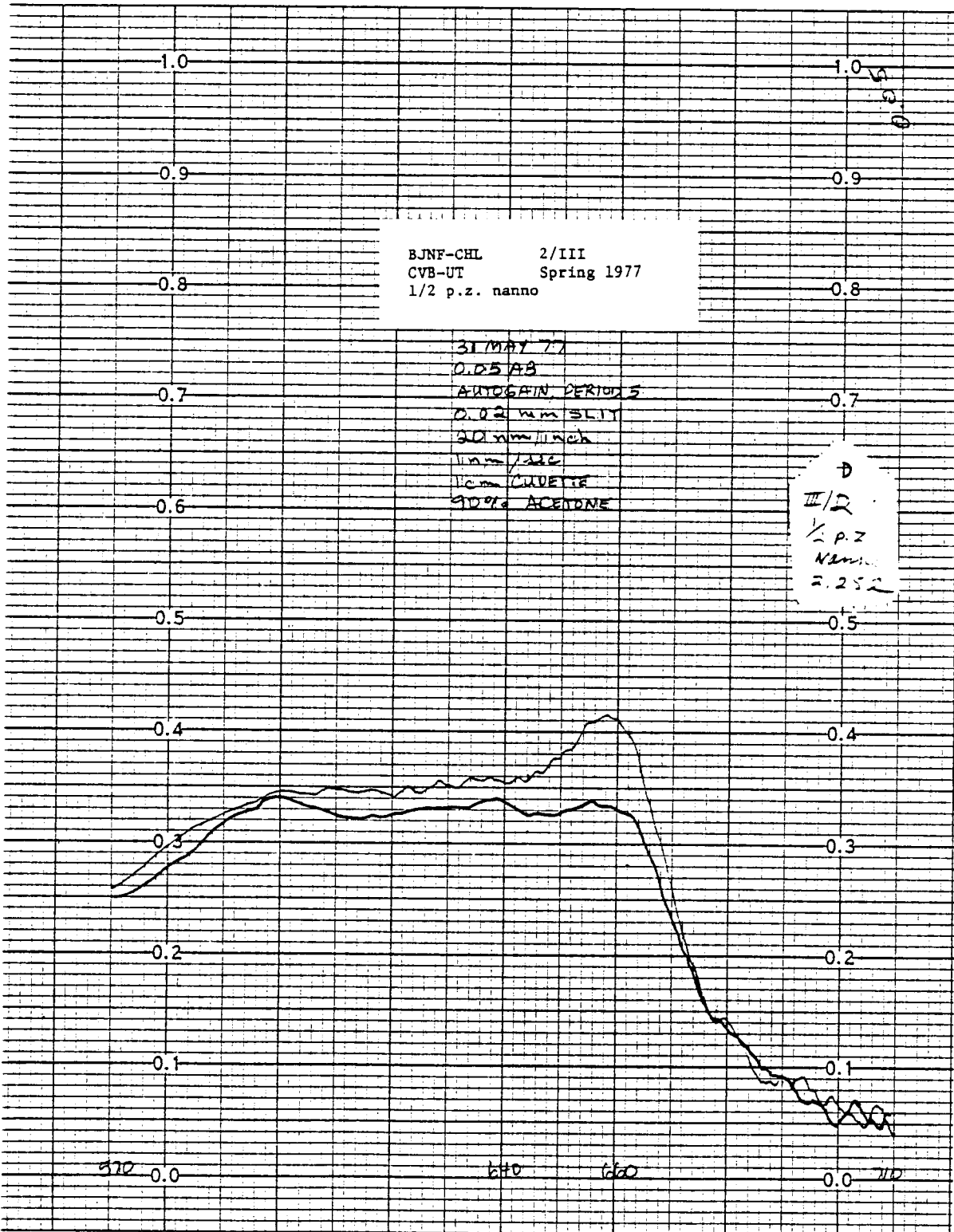


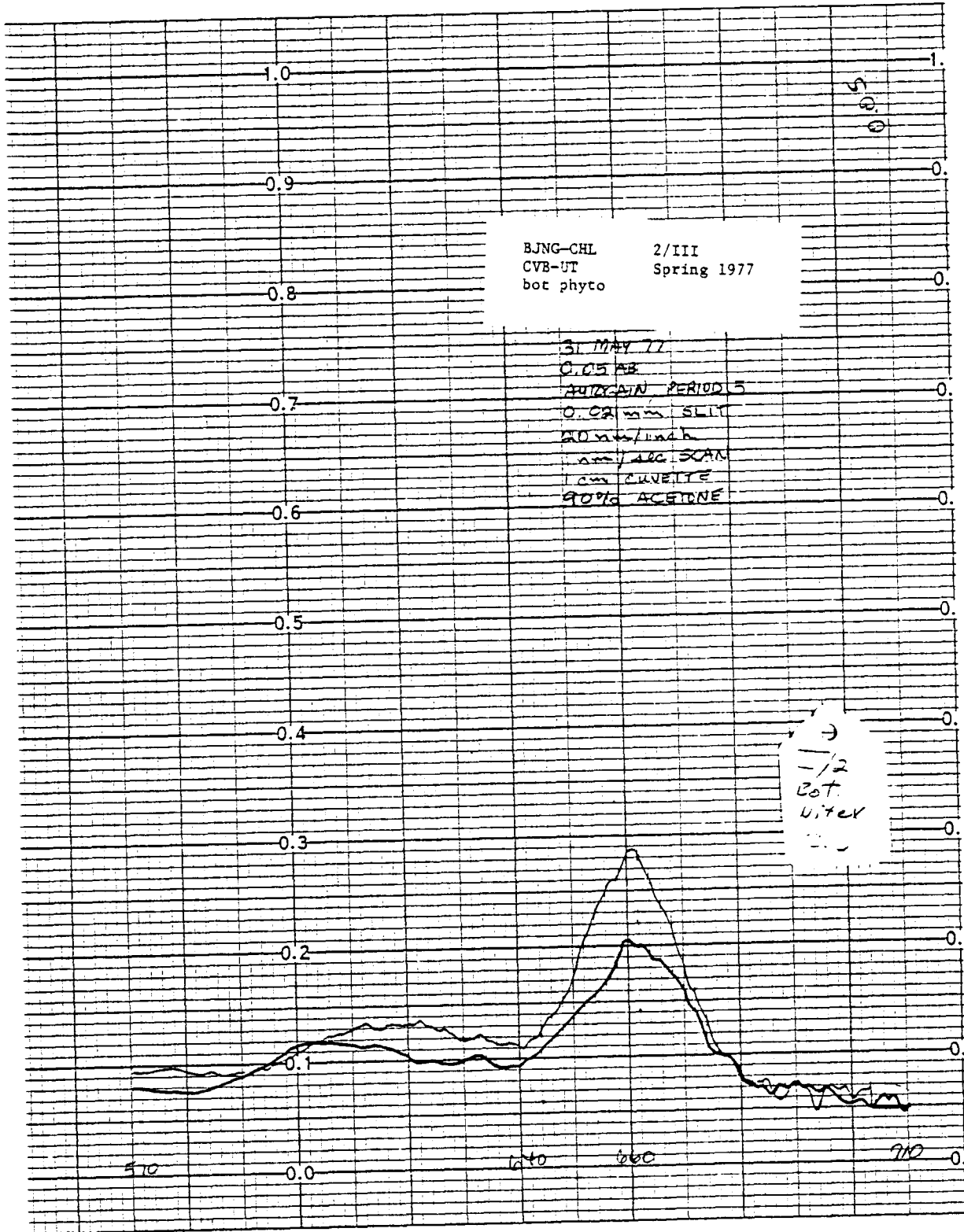


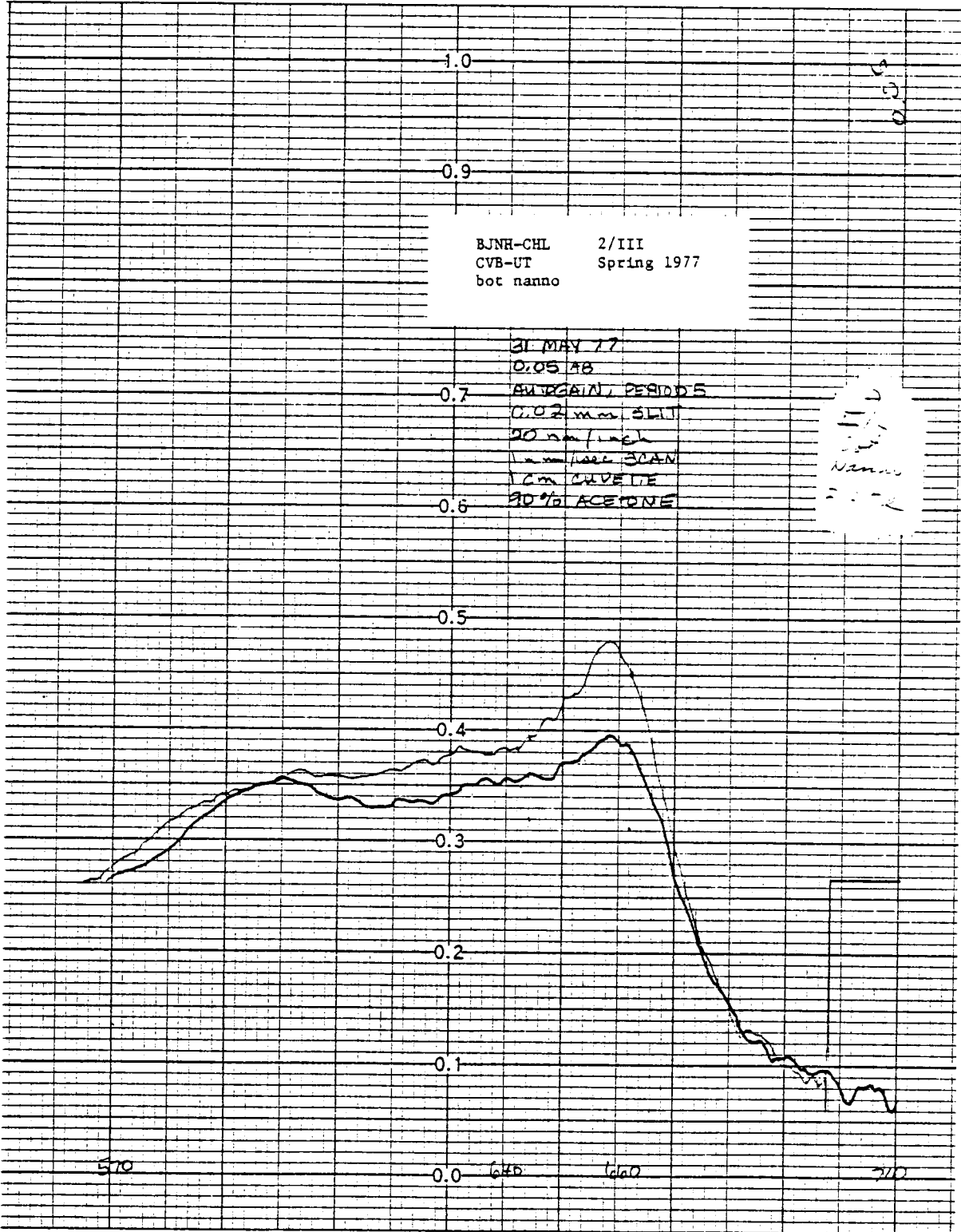


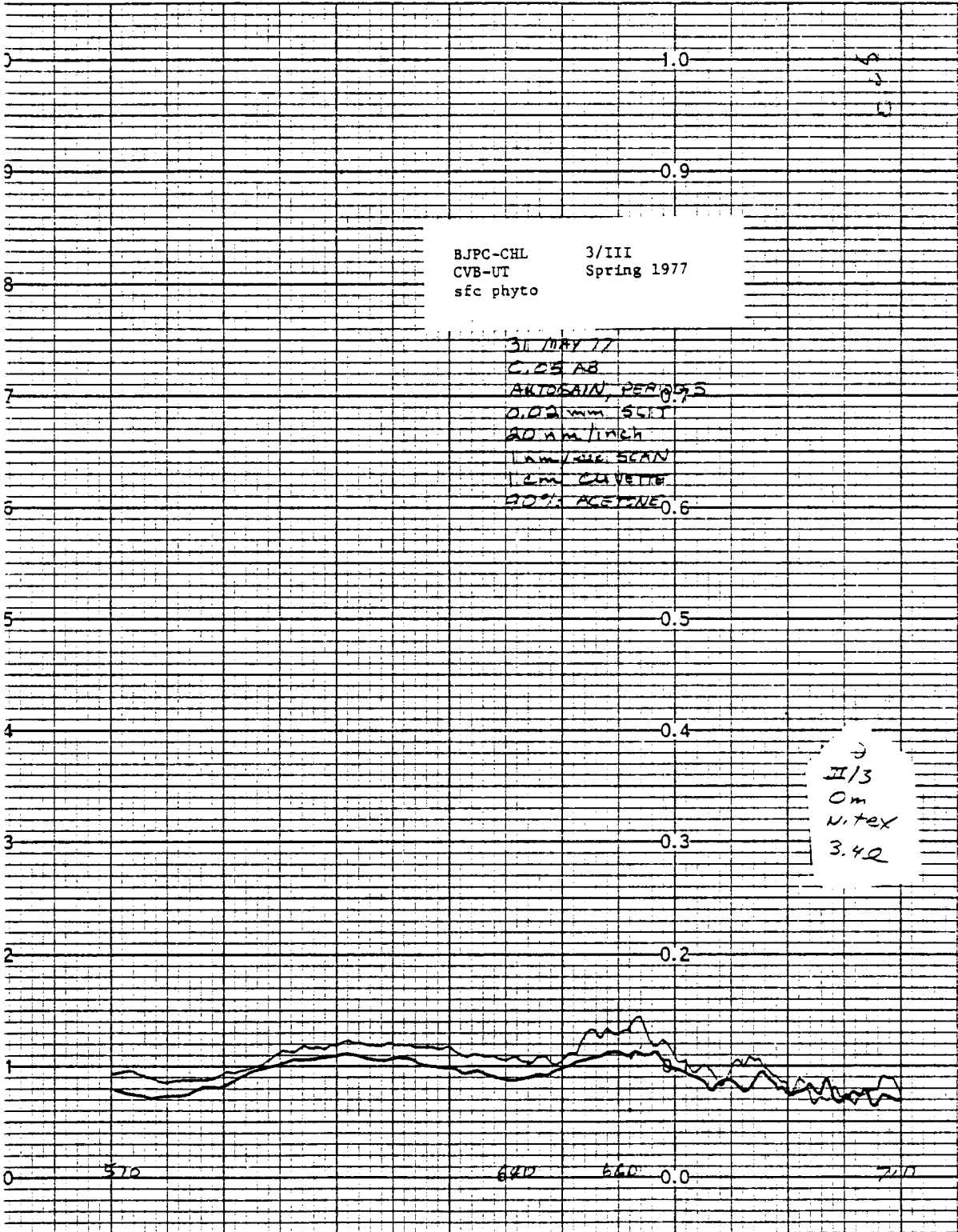


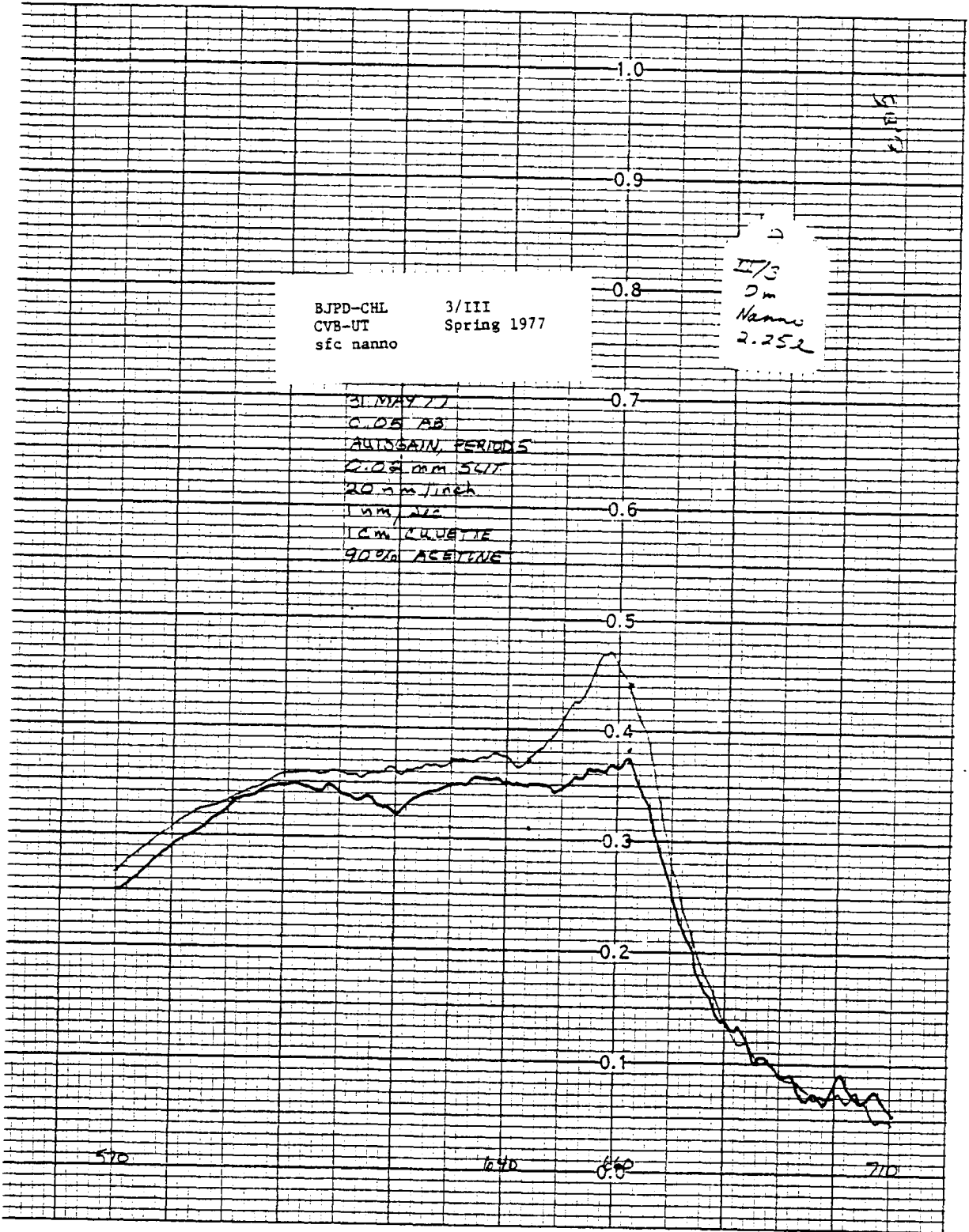




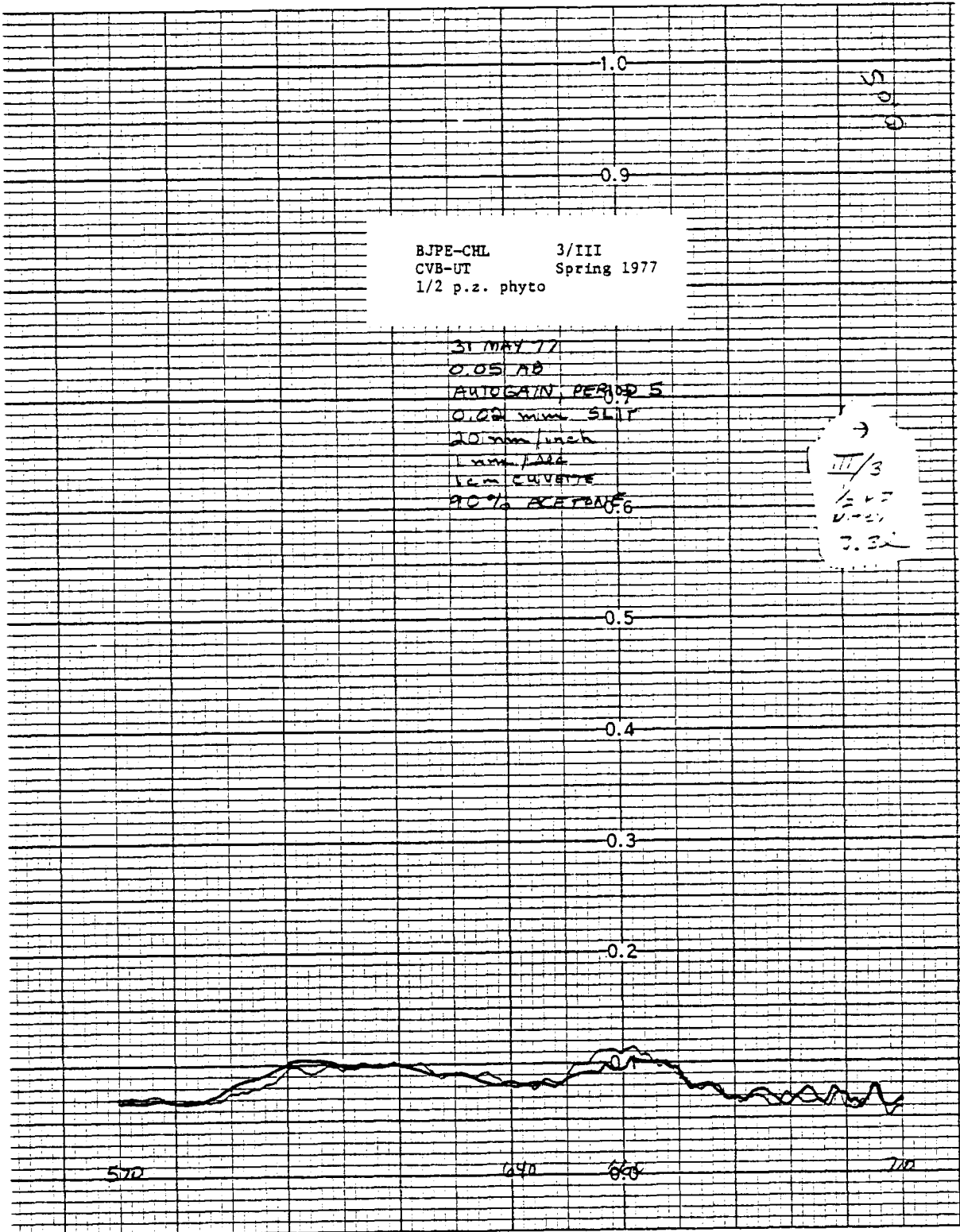


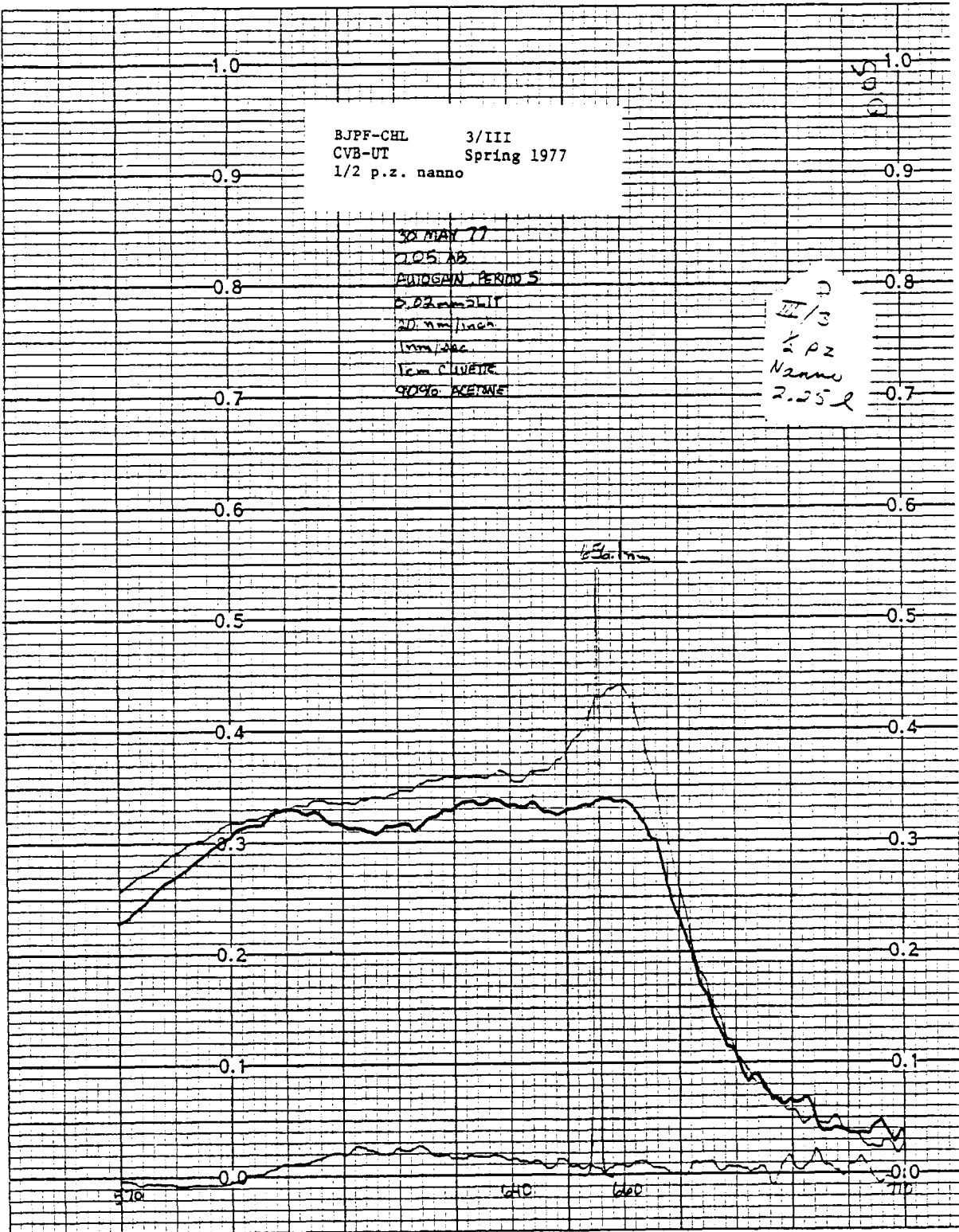


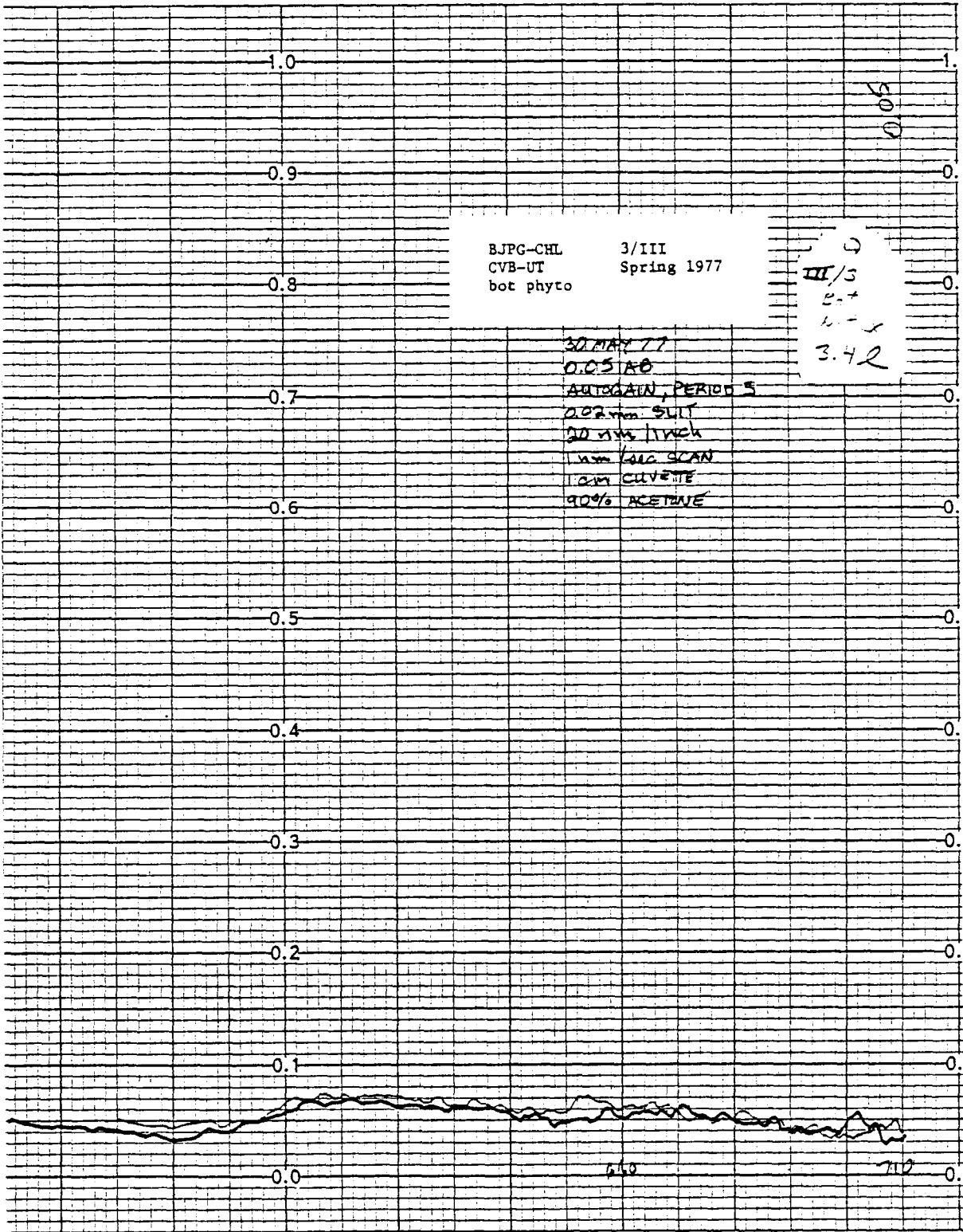


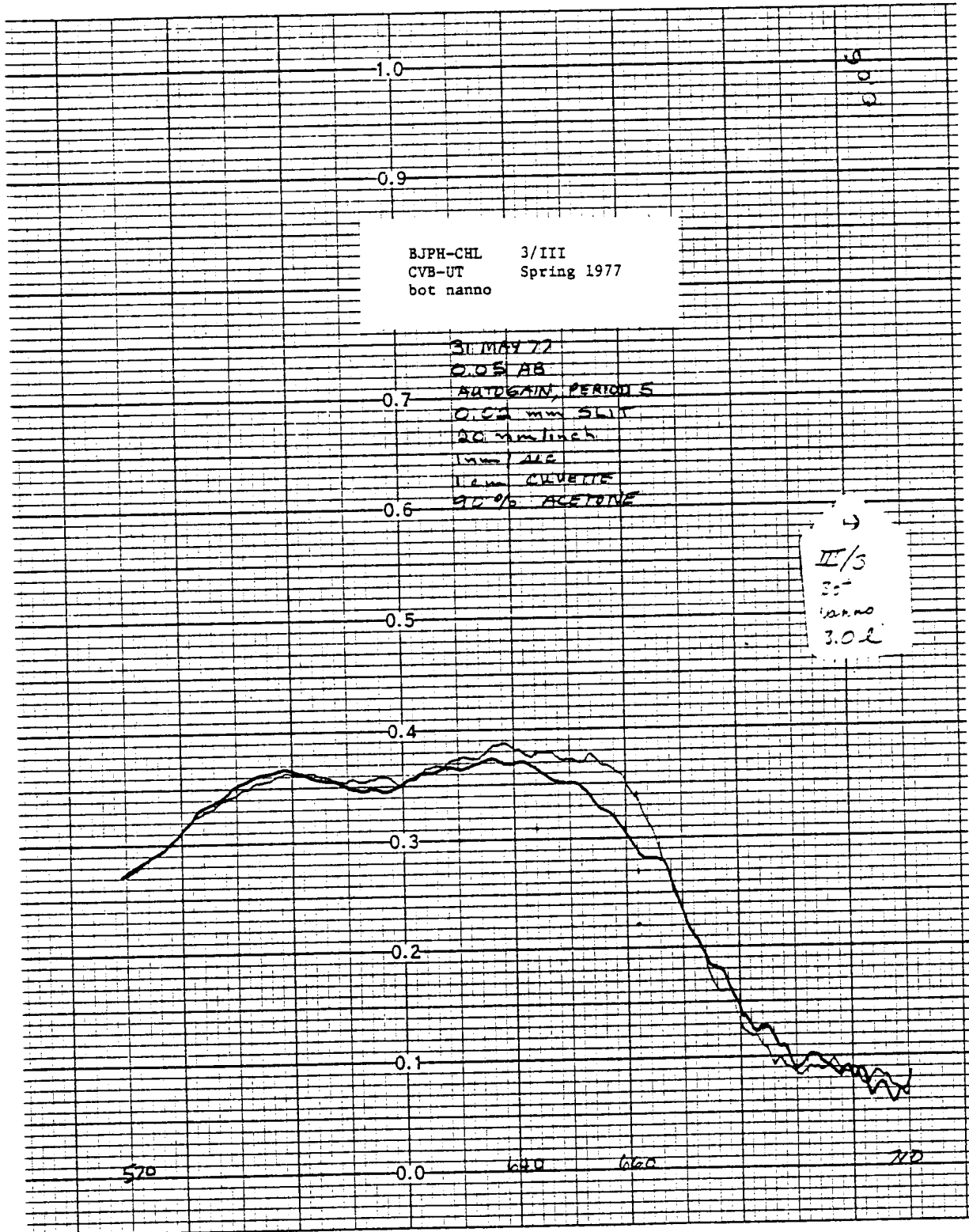


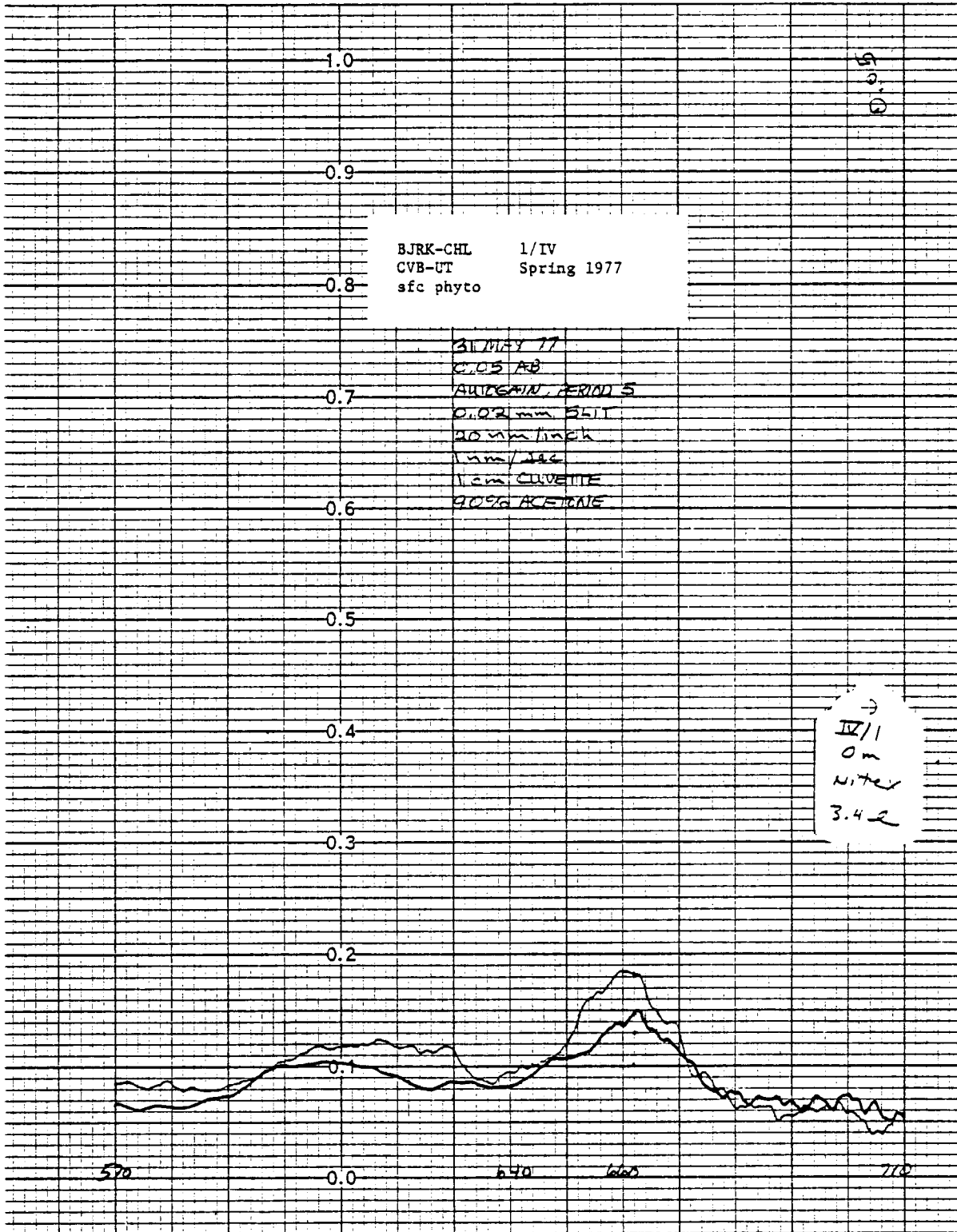


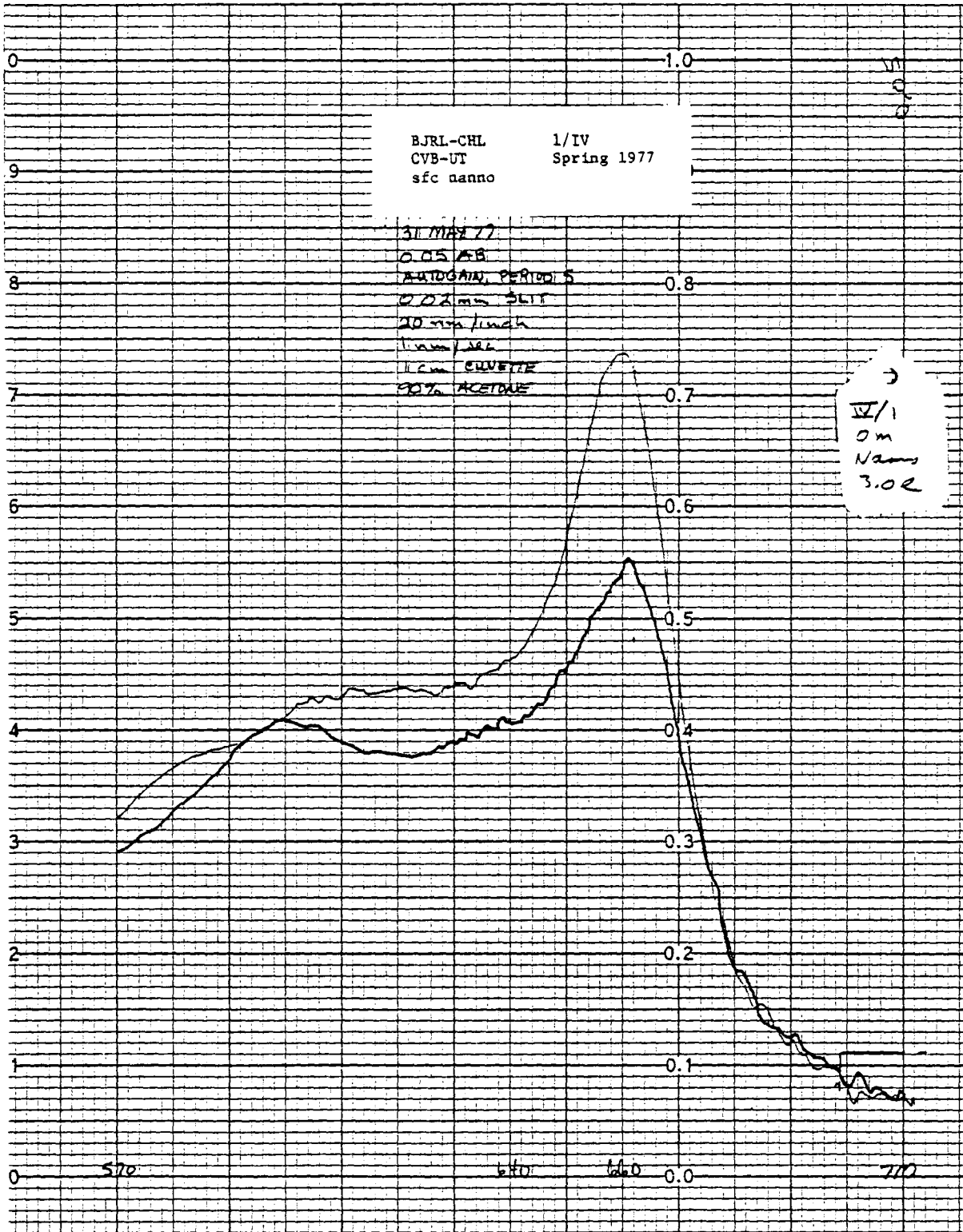


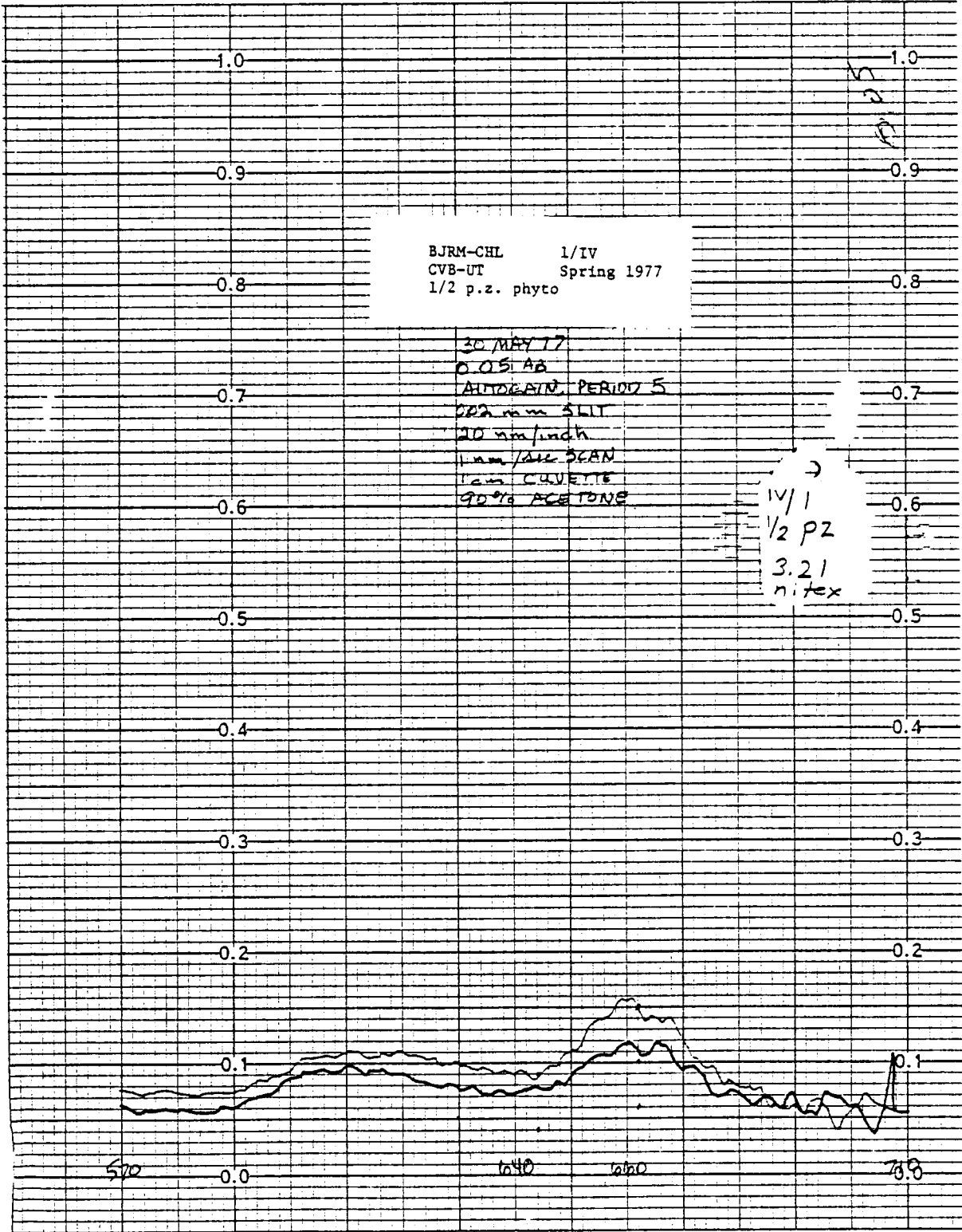


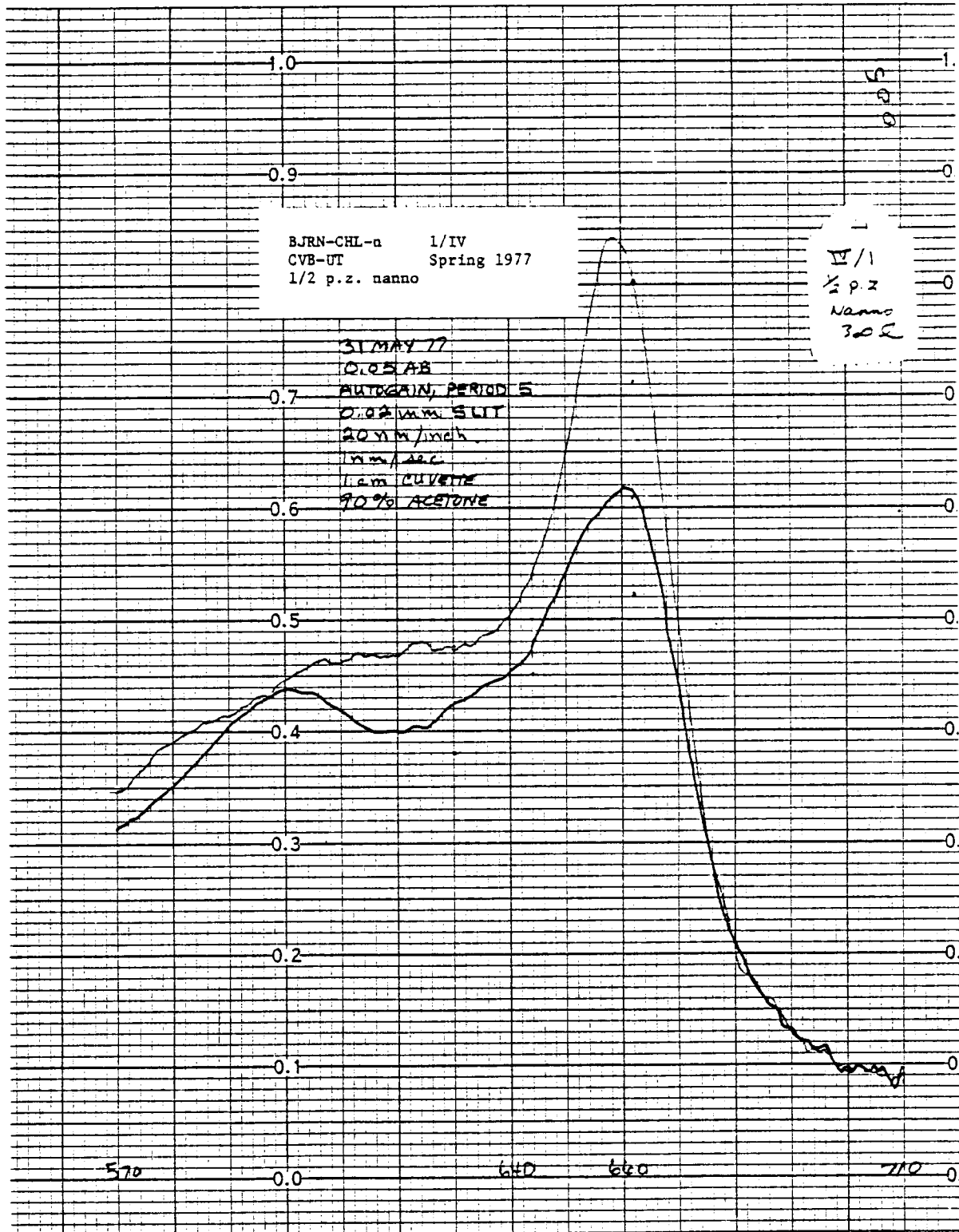




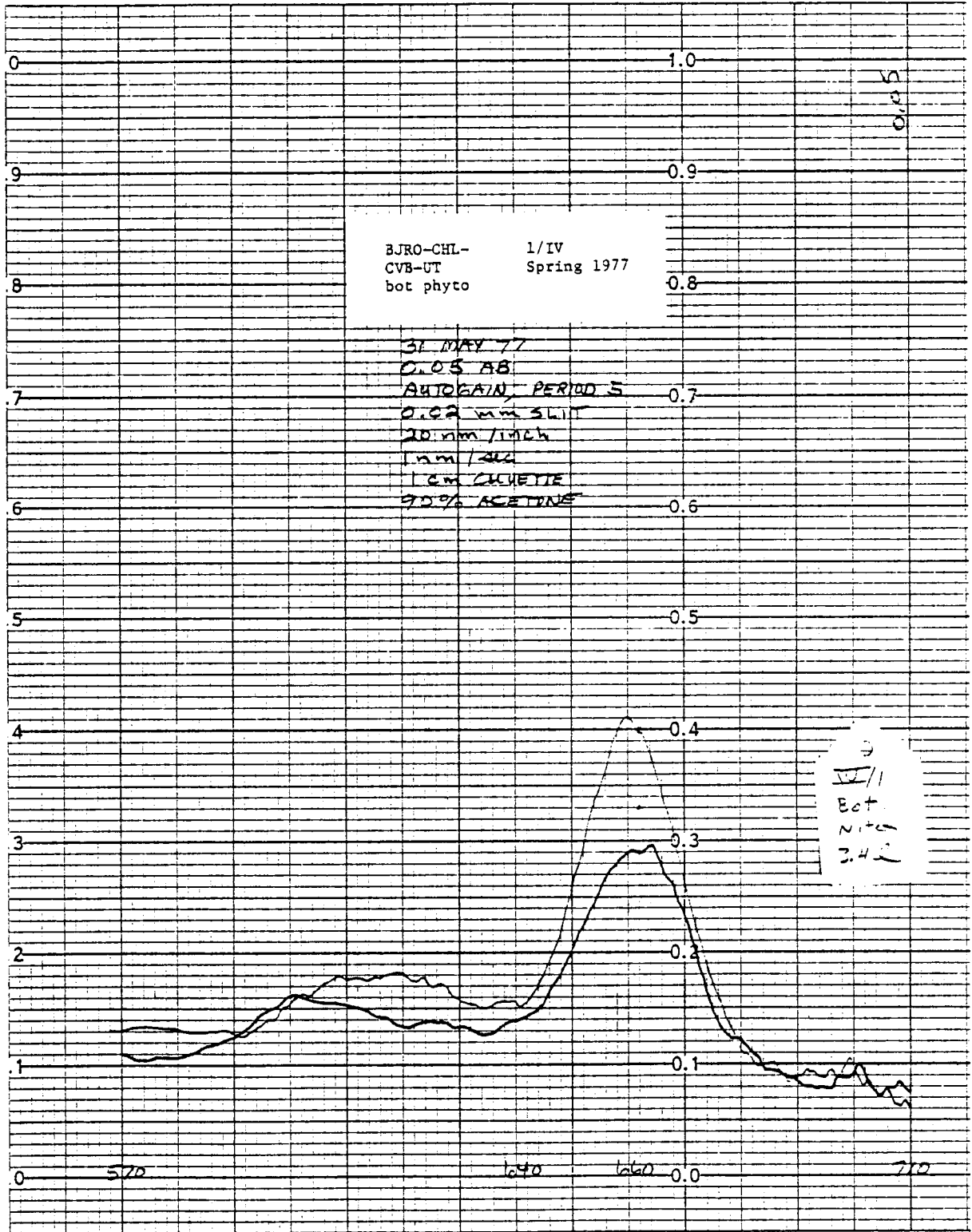












BJRO-CHL- 1/IV  
CVB-UT Spring 1977  
bot phyto

31 MAY 77  
0.05 AB  
AUTO GAIN PERIOD 5  
0.02 mm SLIT  
20 nm / inch  
1 mm / sec  
1 cm CUBETTE  
90% ACETONE

31  
1/1  
Bot.  
Nita  
3.42

0.05

0

9

8

7

6

5

4

3

2

1

0

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

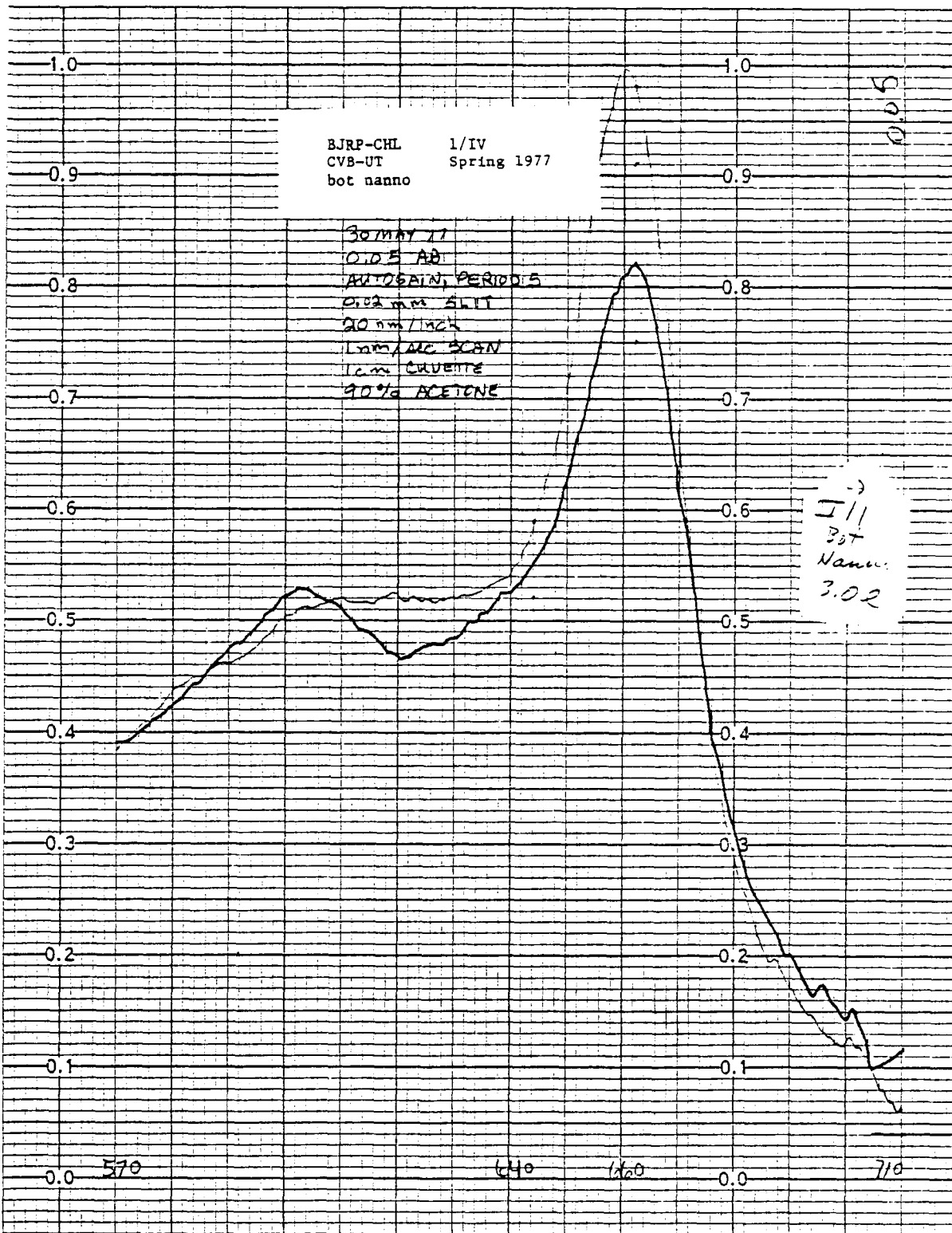
0.0

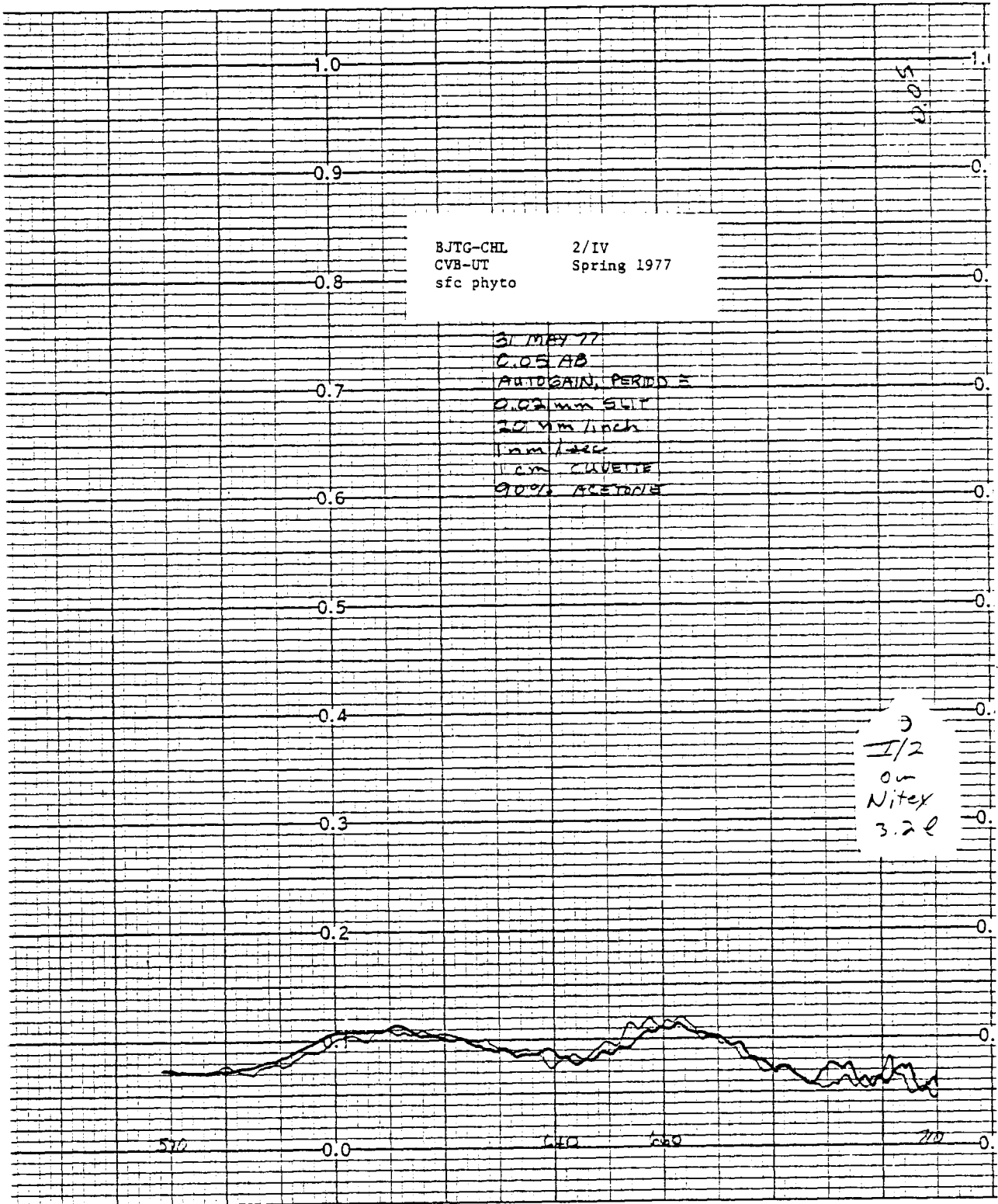
570

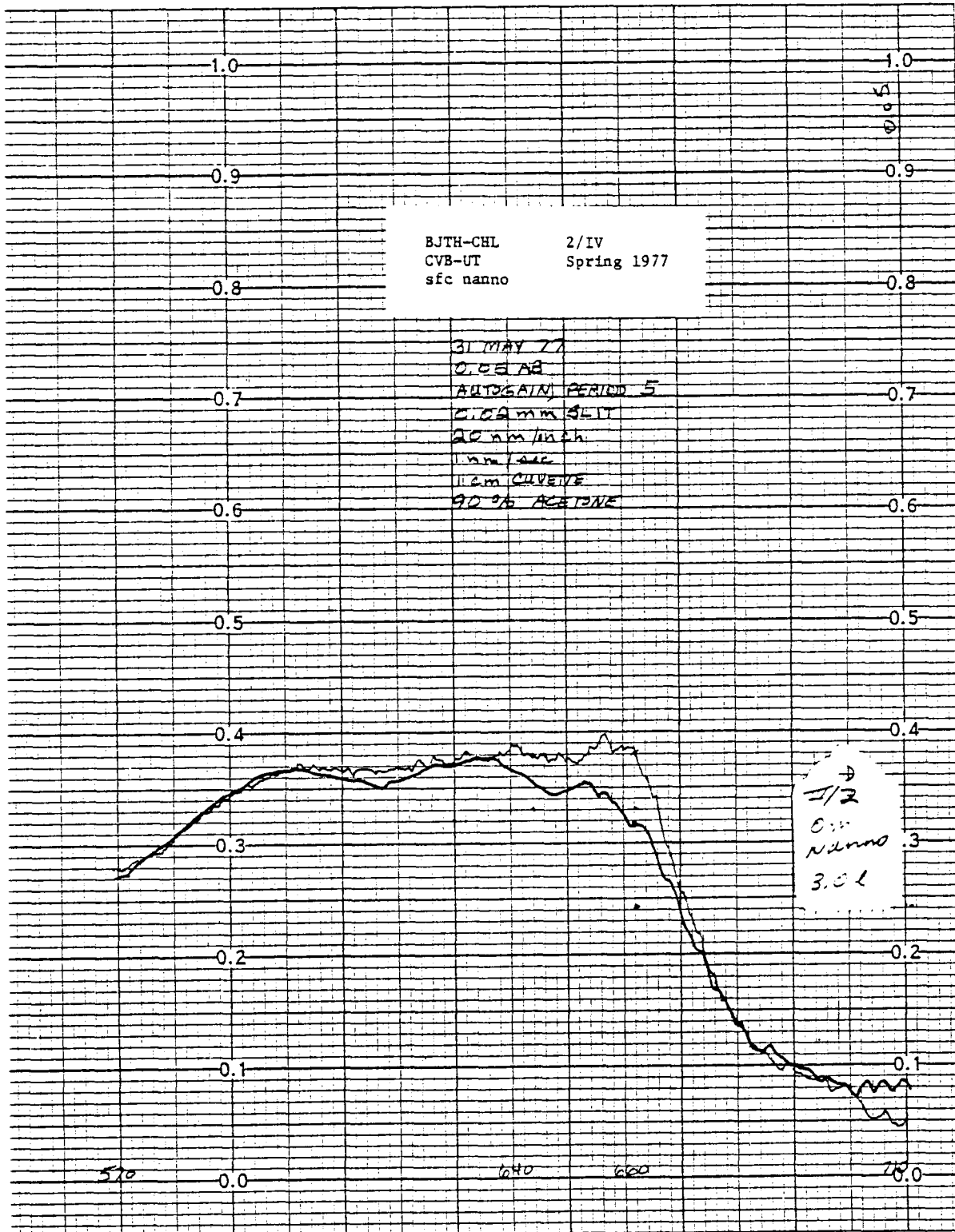
640

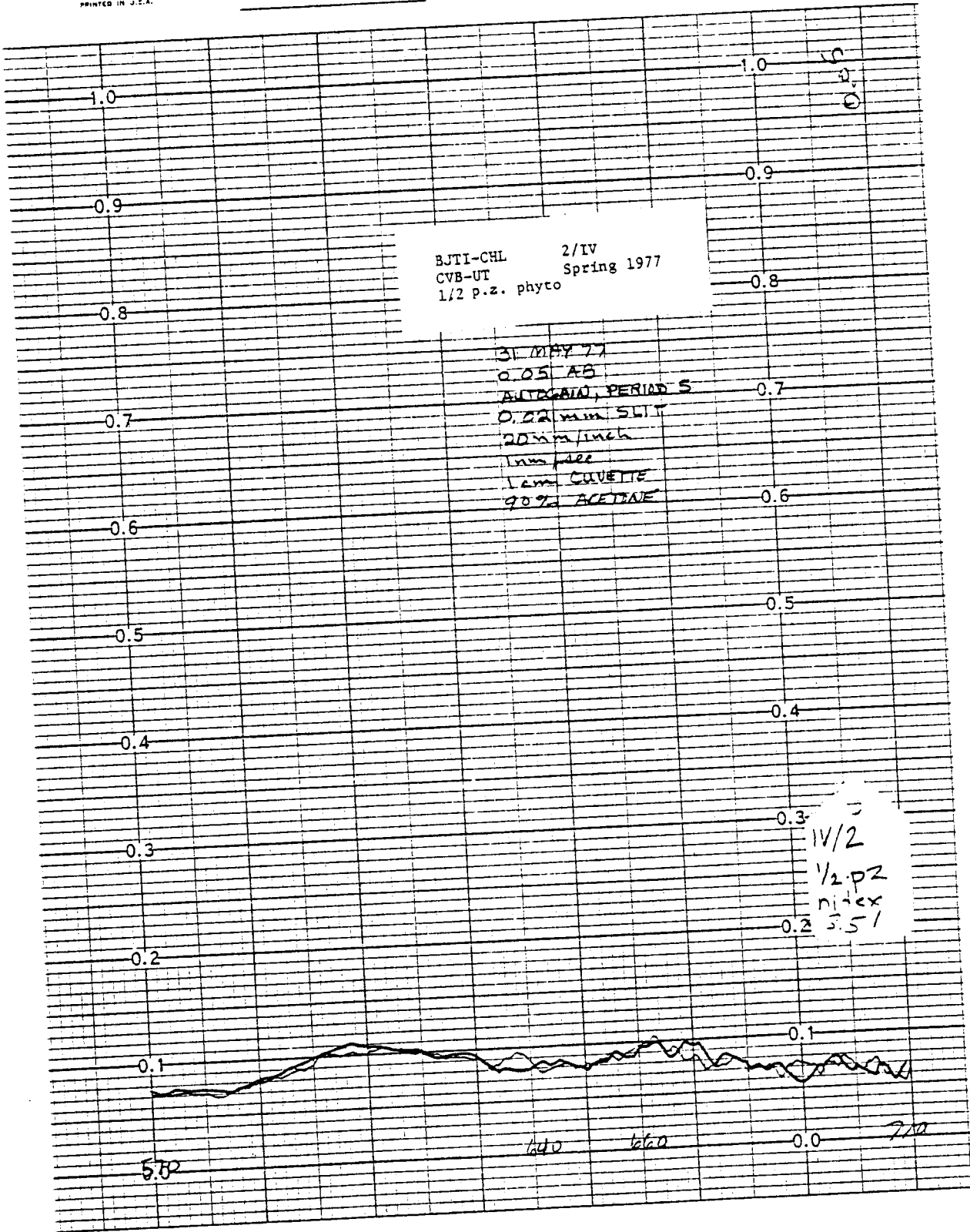
660

710



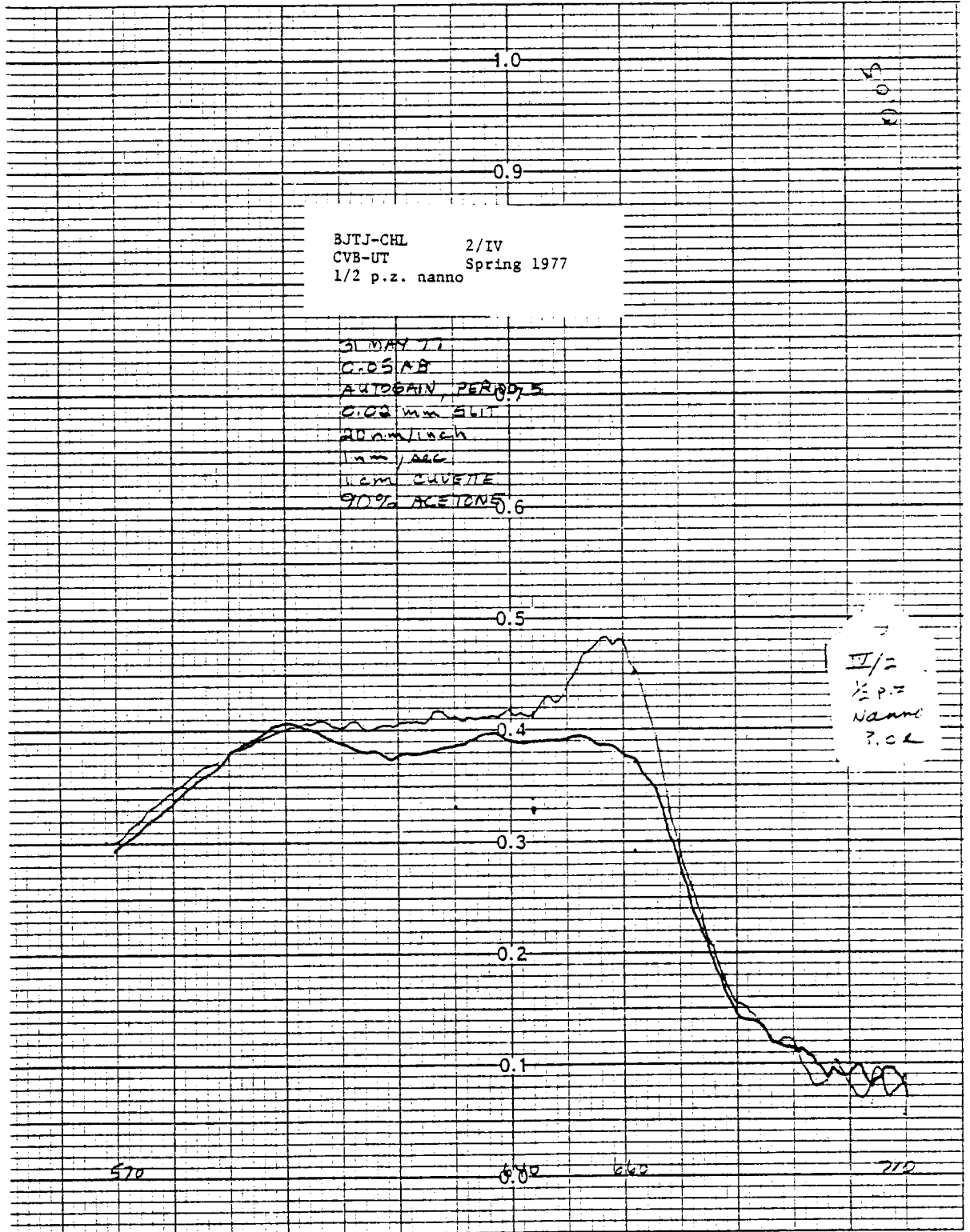


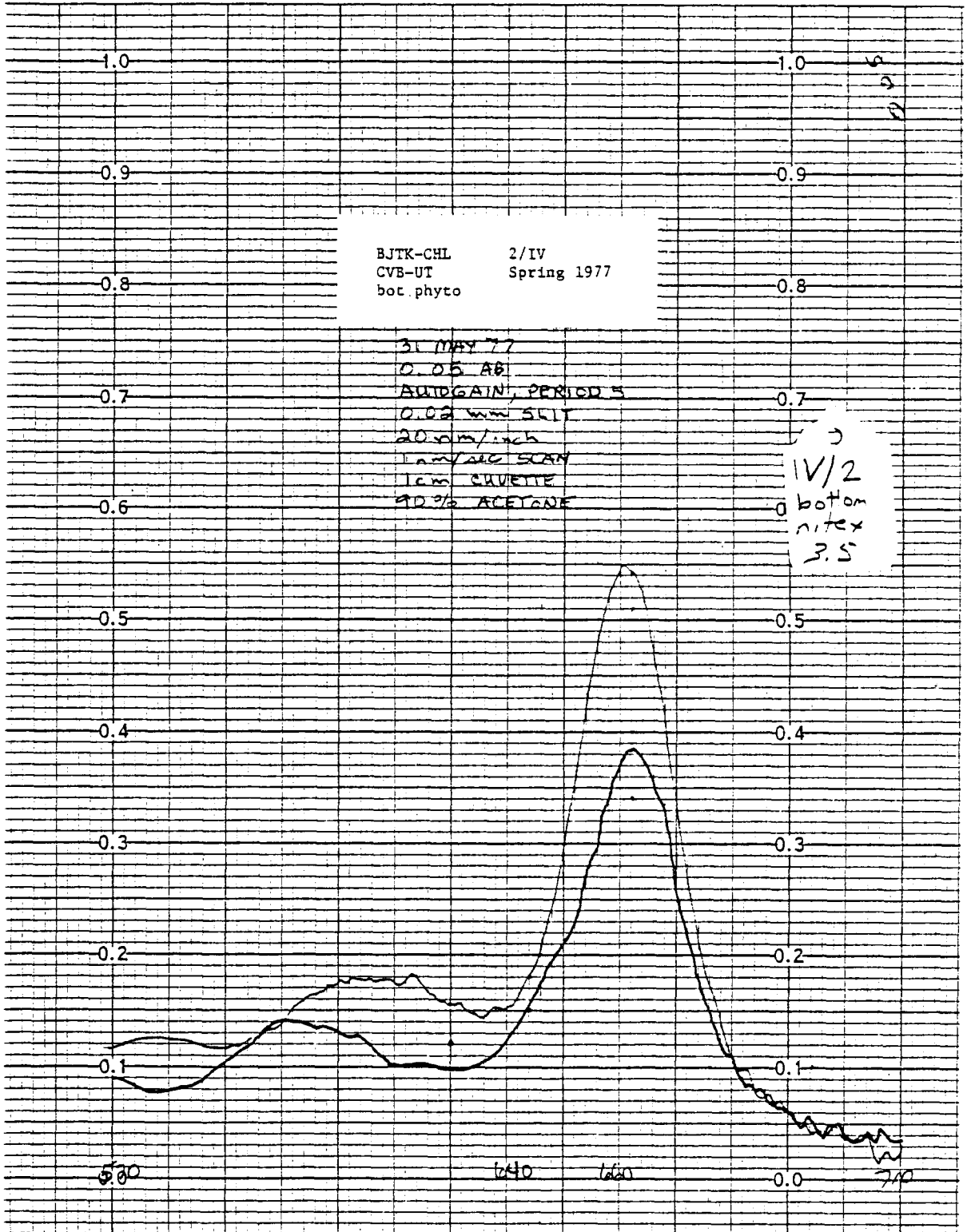




BJTJ-CHL 2/IV  
CVB-UT Spring 1977  
1/2 p.z. nanno

31 MAY 77  
GOSAB  
AUTOBAIN, PERIOD 5  
0.02 mm slit  
ADAM LINGH  
1 mm, ACC  
1.2 cm CUVETTE  
90% ACETONE 5.6

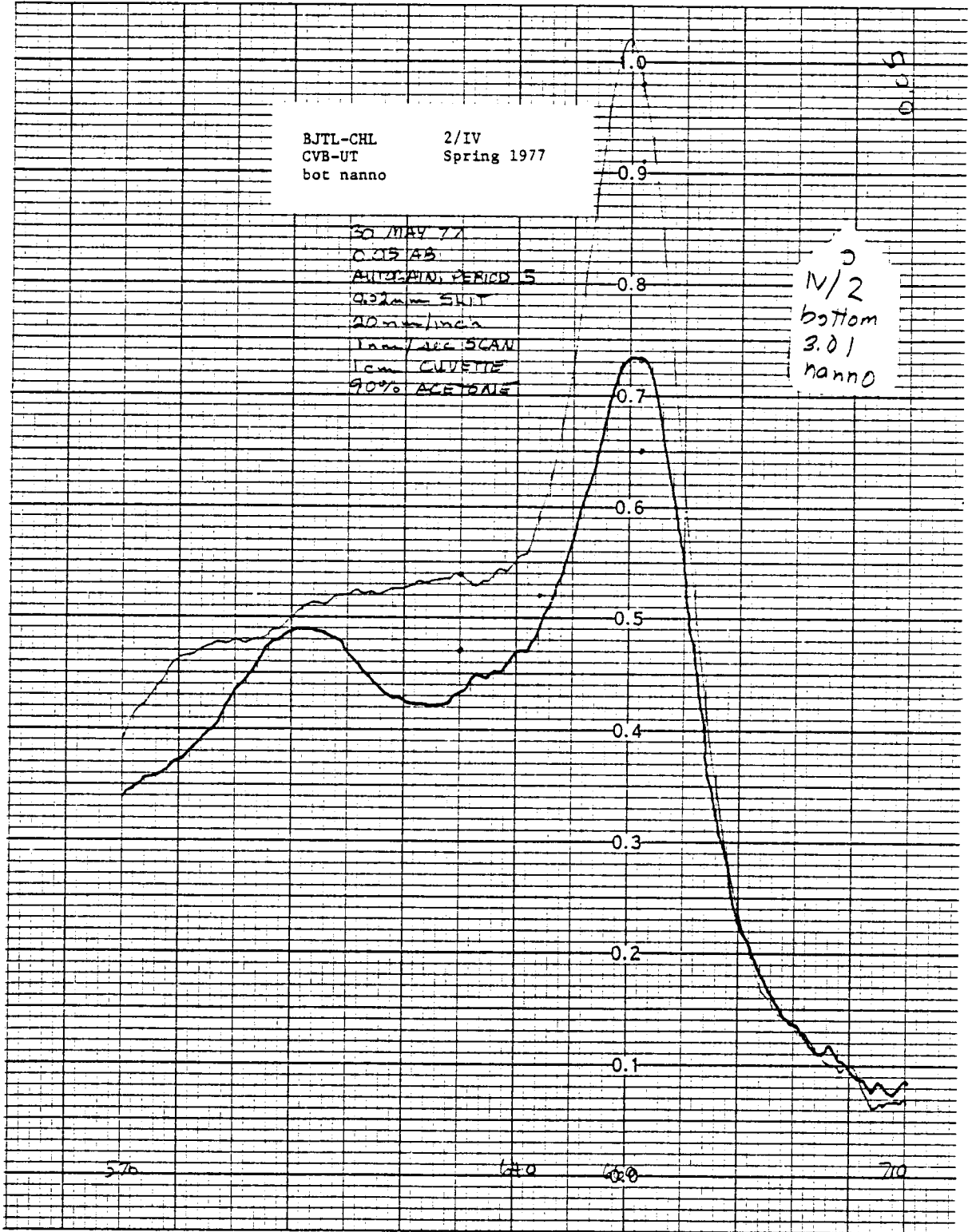




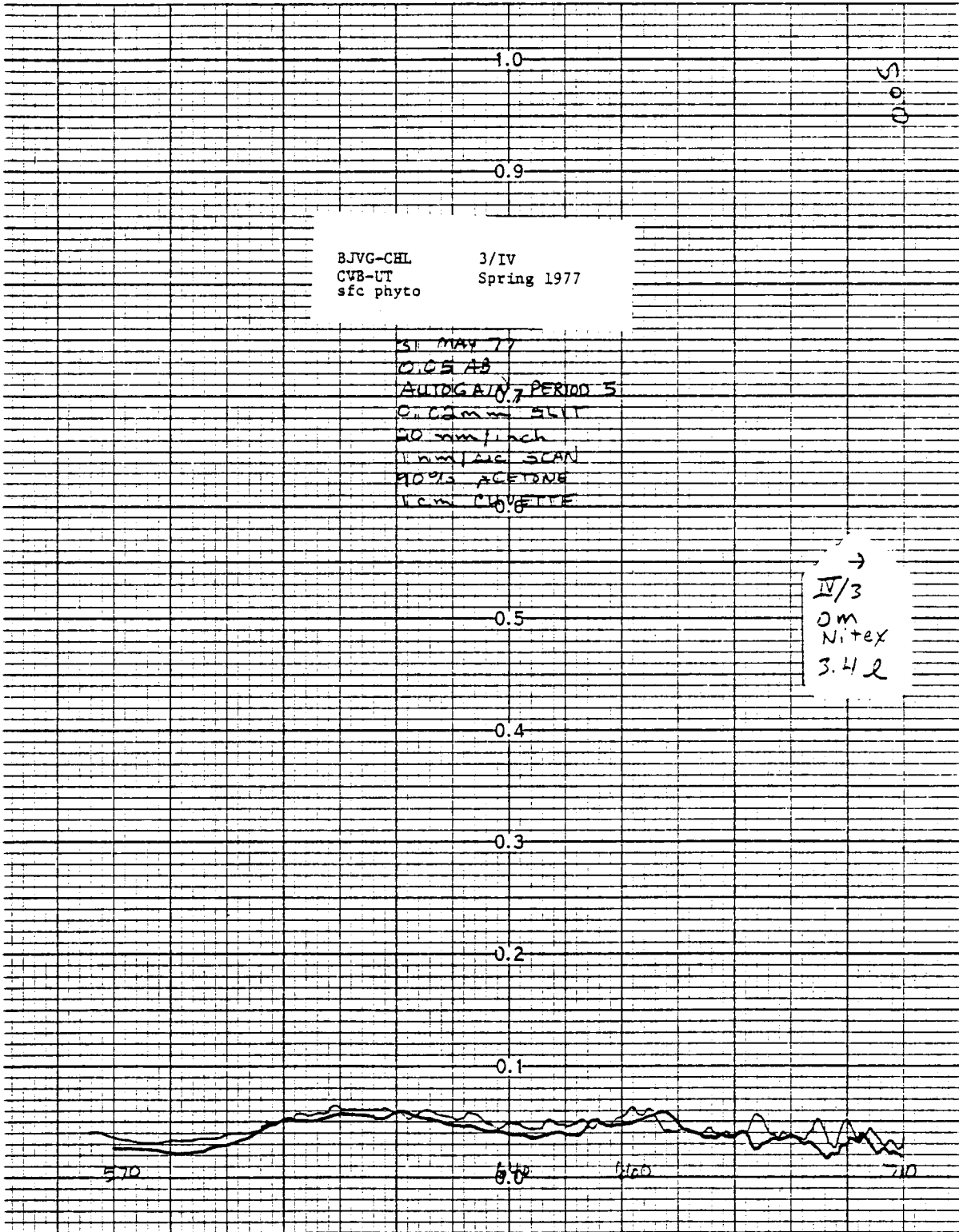
BJTL-CHL 2/IV  
CVB-UT Spring 1977  
bot nanno

30 MAY 77  
0.0143  
AUTOBIN PERIOD 5  
9.02um SWIT  
20um/line  
1um/SEC SCAN  
1cm CUVETTE  
90% ACETONE

570  
0.15  
N/2  
bottom  
3.01  
nanno





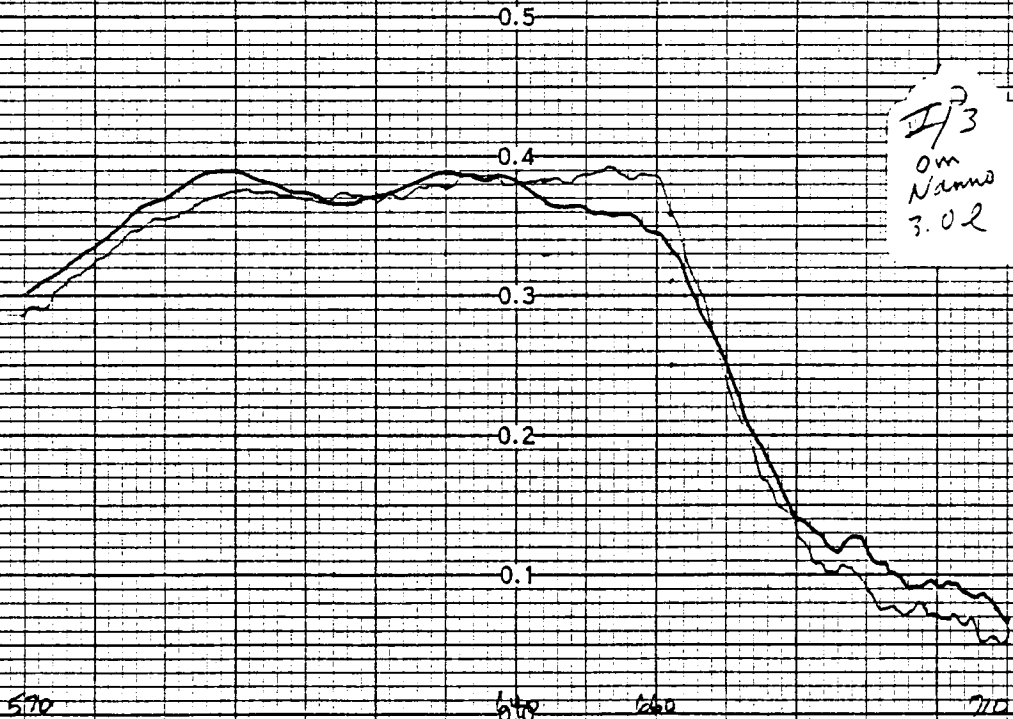


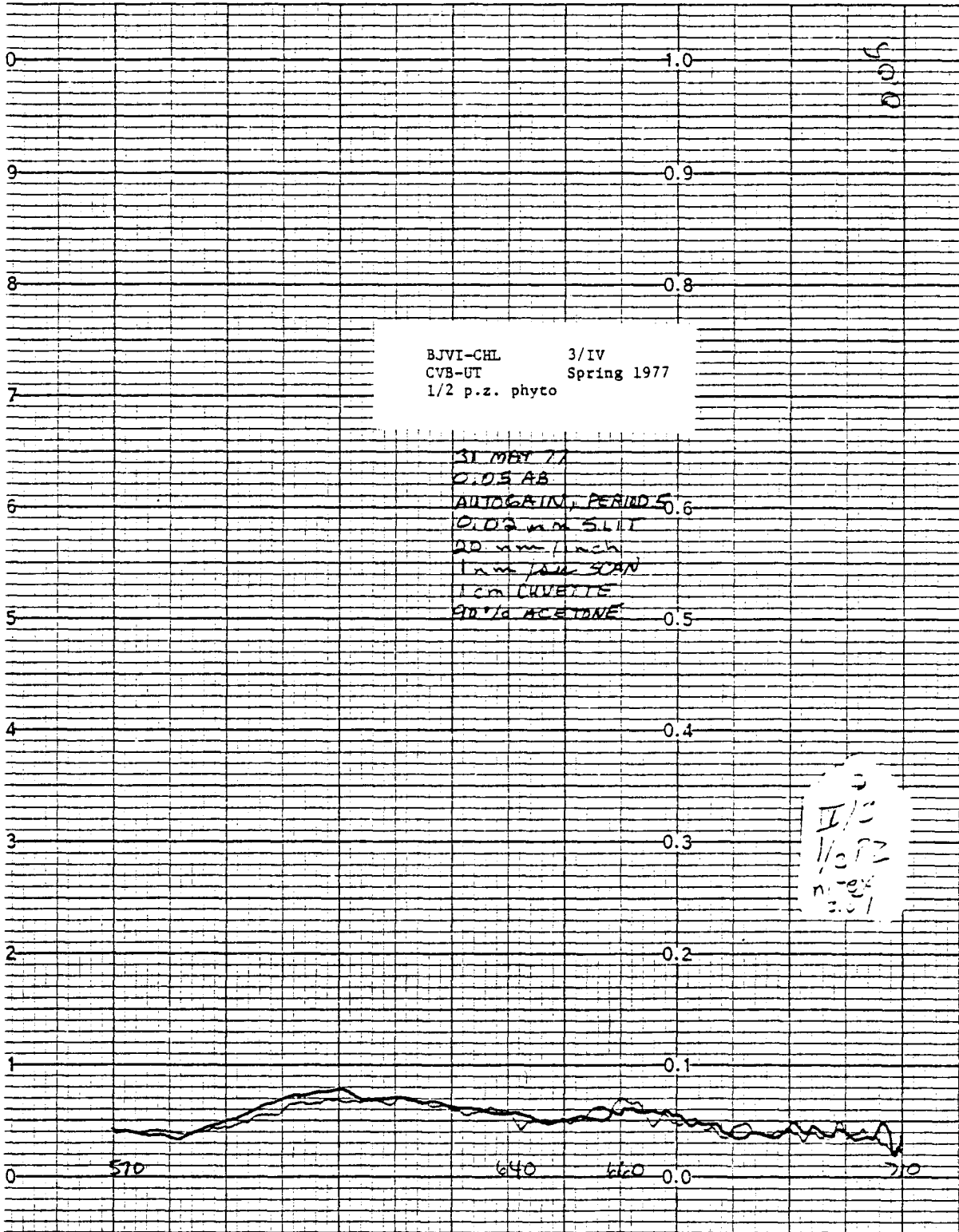
BJVH-CHL  
CV8-UT  
sfc nanno

3/IV  
Spring 1977

31 MAY 77  
0.05 AB  
AUTOGAIN, PERIODS  
0.02 mm SLIT  
20 mm/inch  
1 mm/sec  
1 cm CUVETTE  
90% ACETONE

5  
0.2



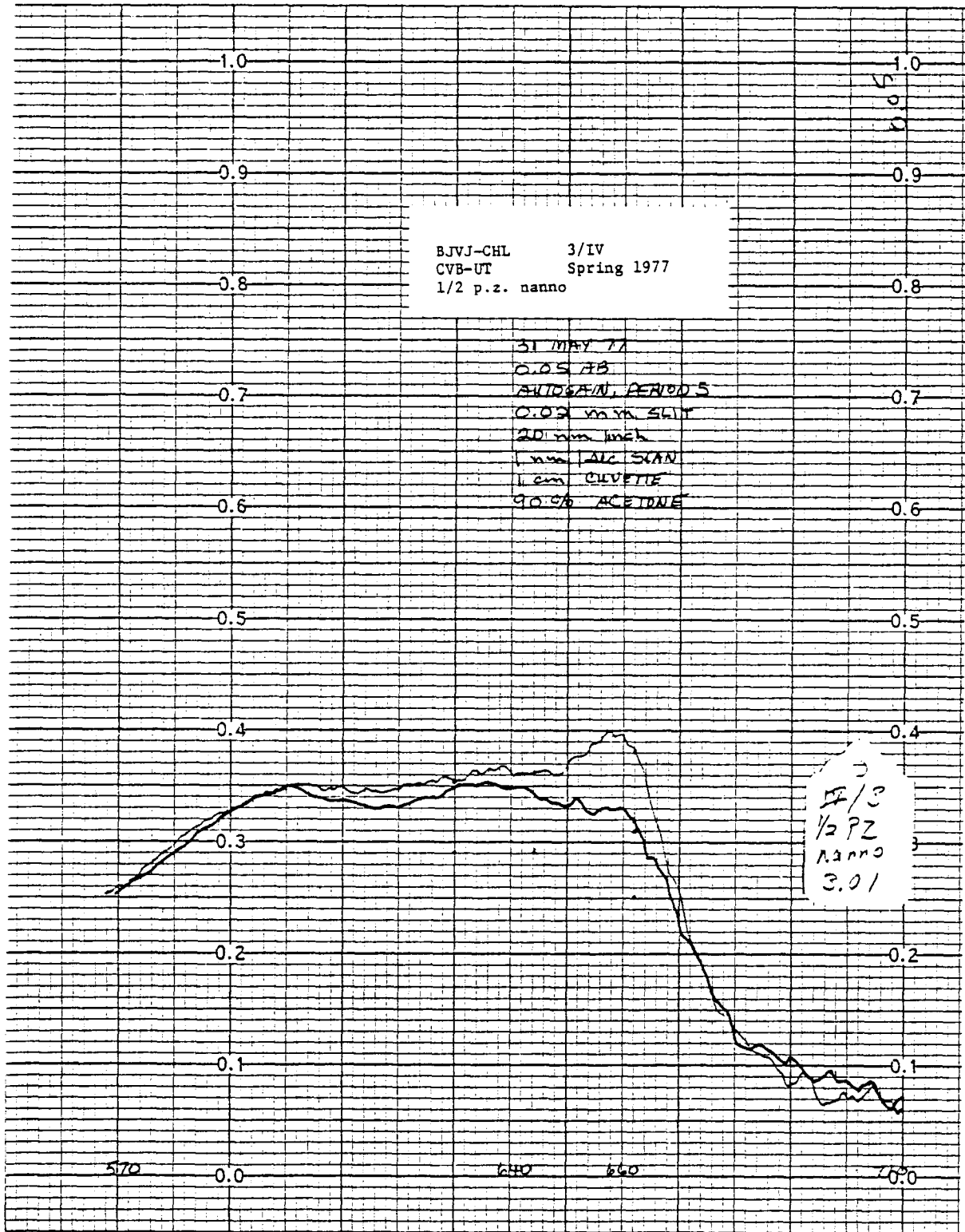


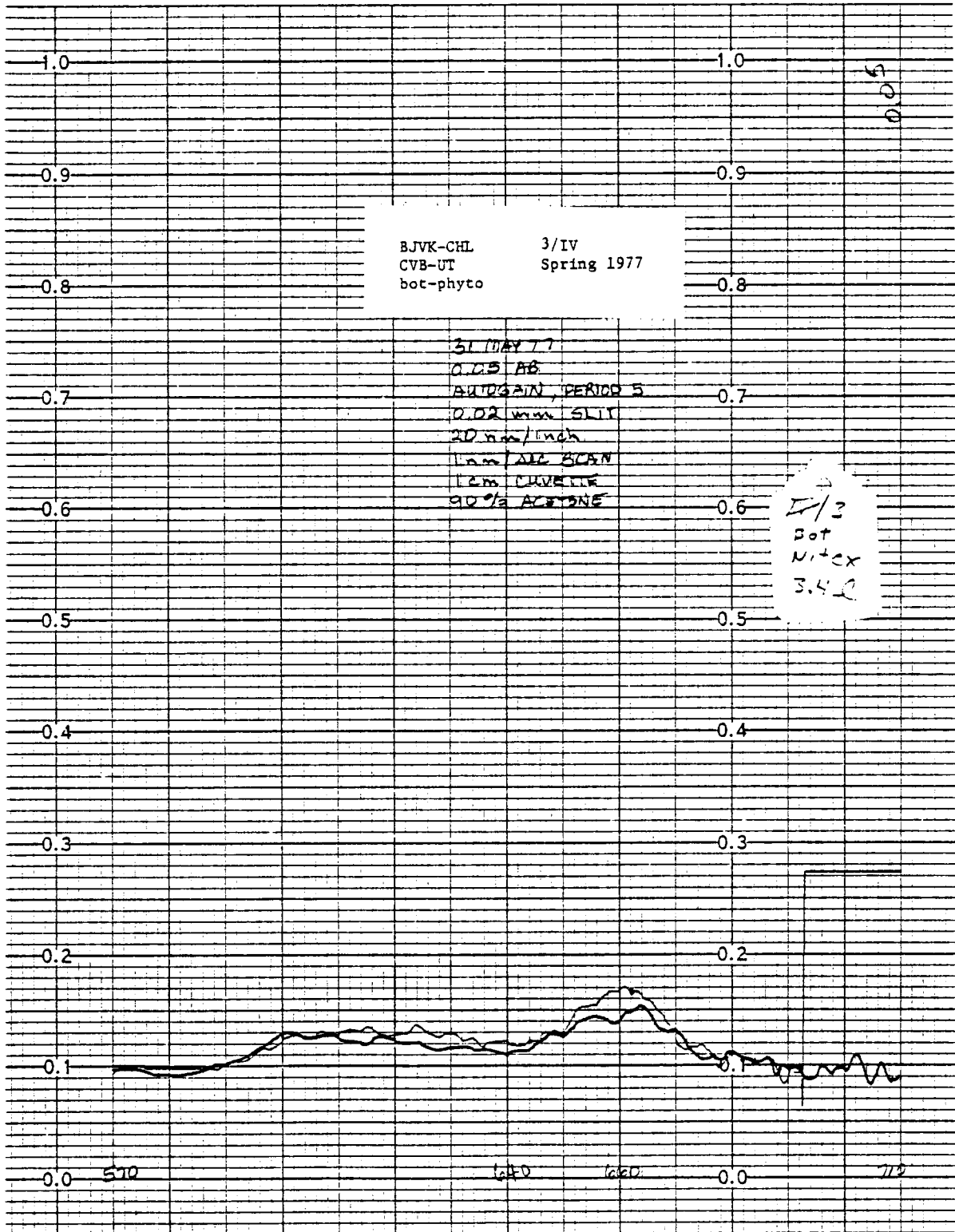
BJVI-CHL 3/IV  
CVB-UT Spring 1977  
1/2 p.z. phyto

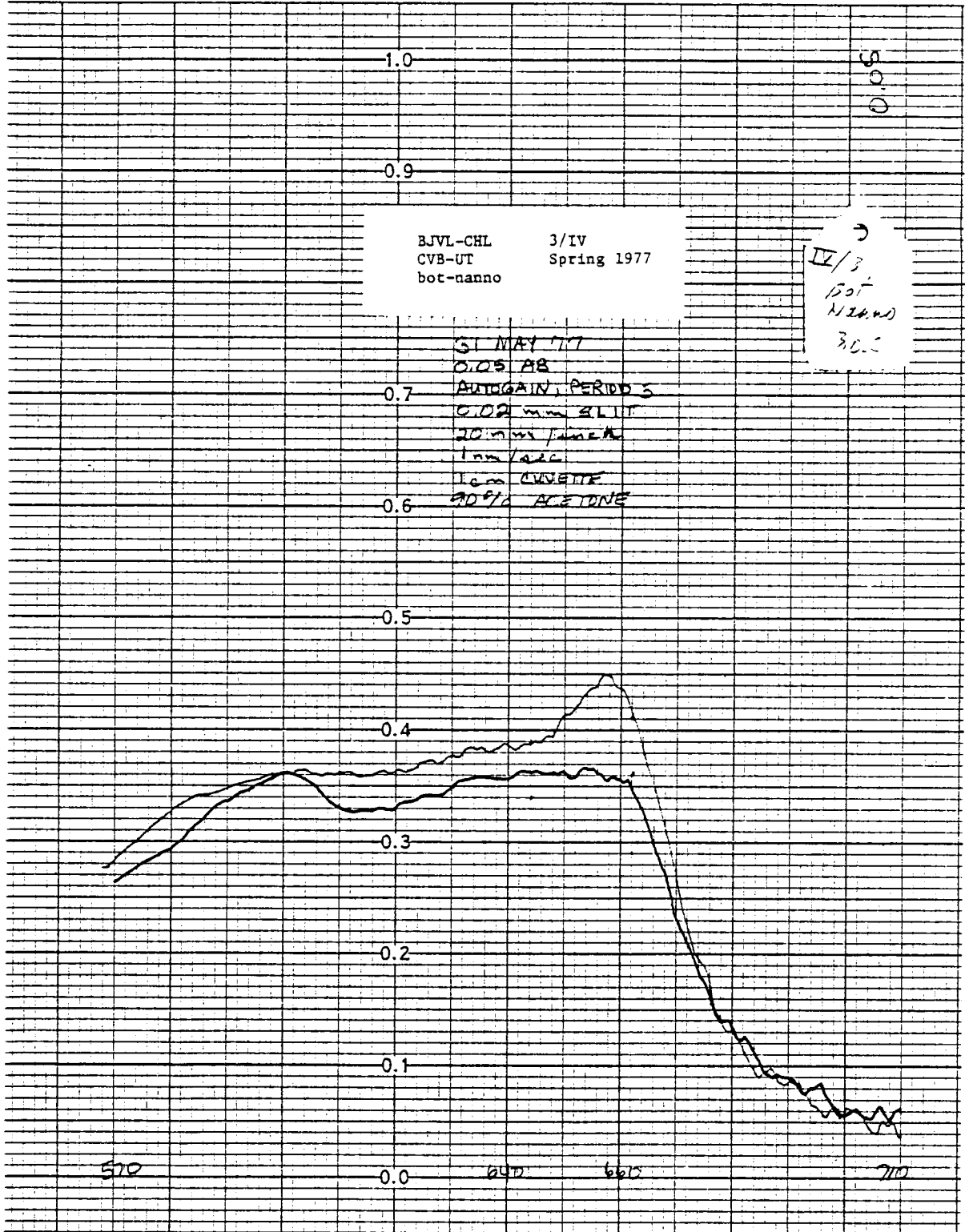
31 MAY 77  
0.05 AB  
AUTOGAIN, PERIOD 5.6  
0.03 mm SLIT  
20 mm / inch  
1 cm / inch SCAN  
1 cm CUVETTE  
90% ACETONE

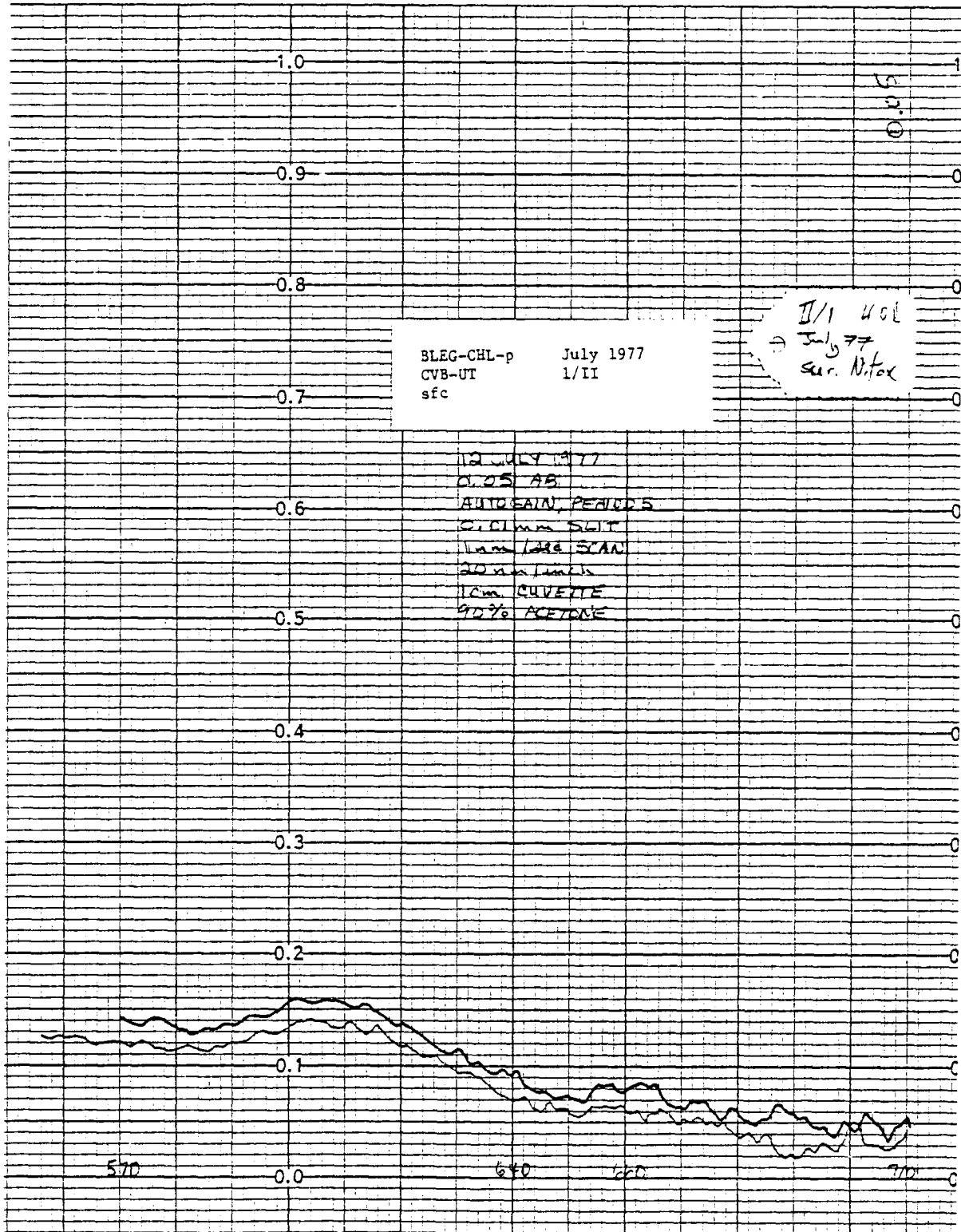
I/C  
1/2 p.z.  
n-ox  
3.01

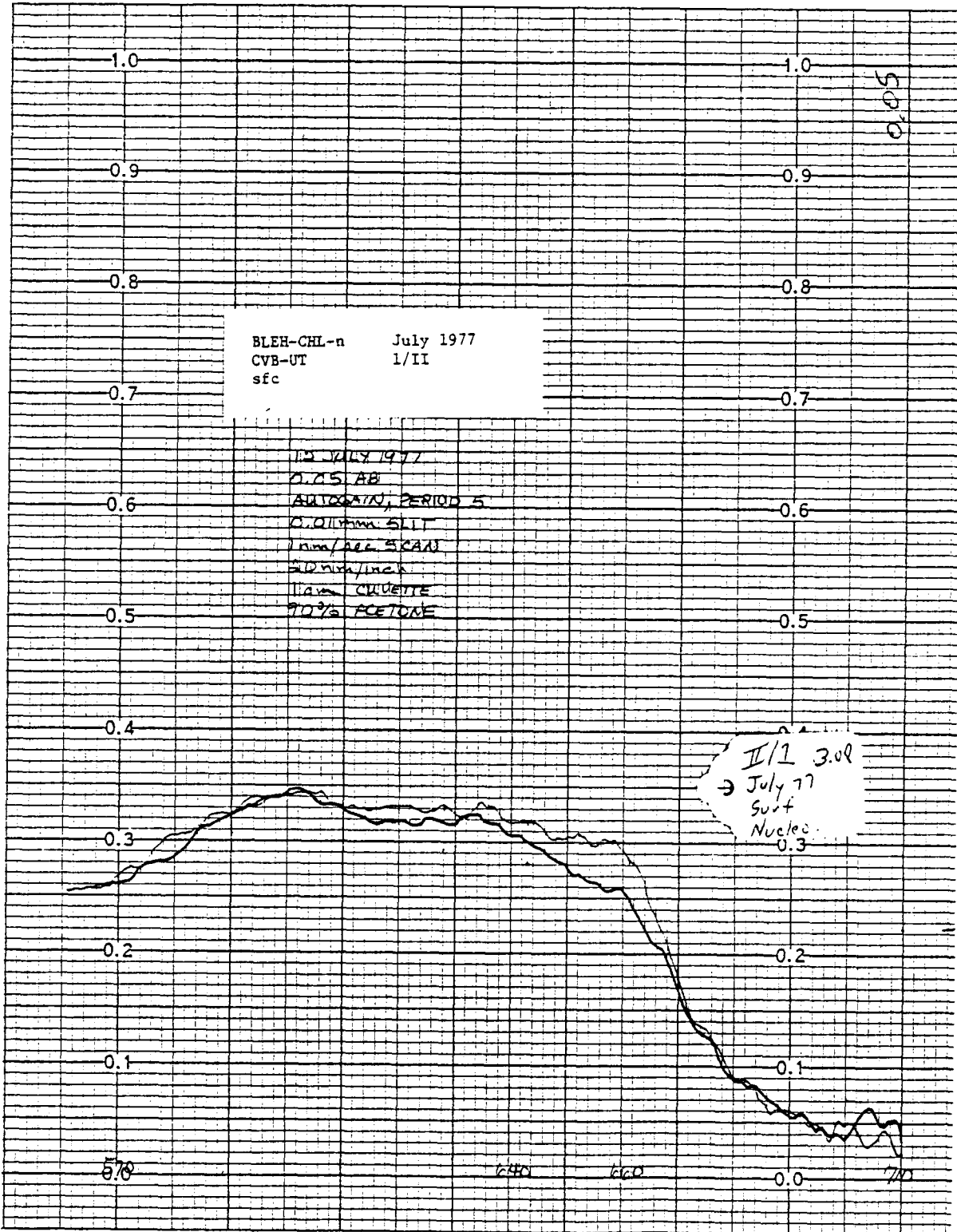
500



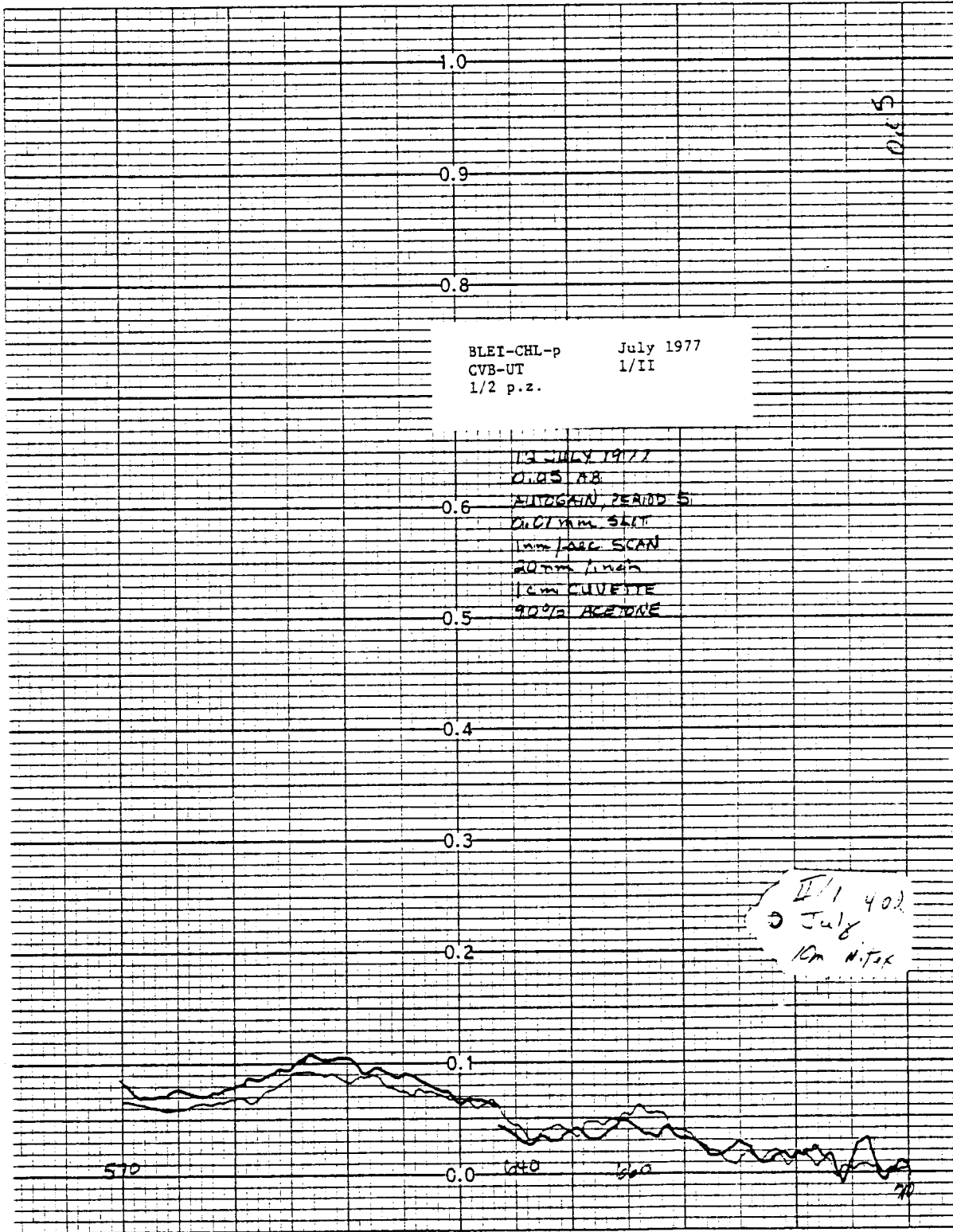


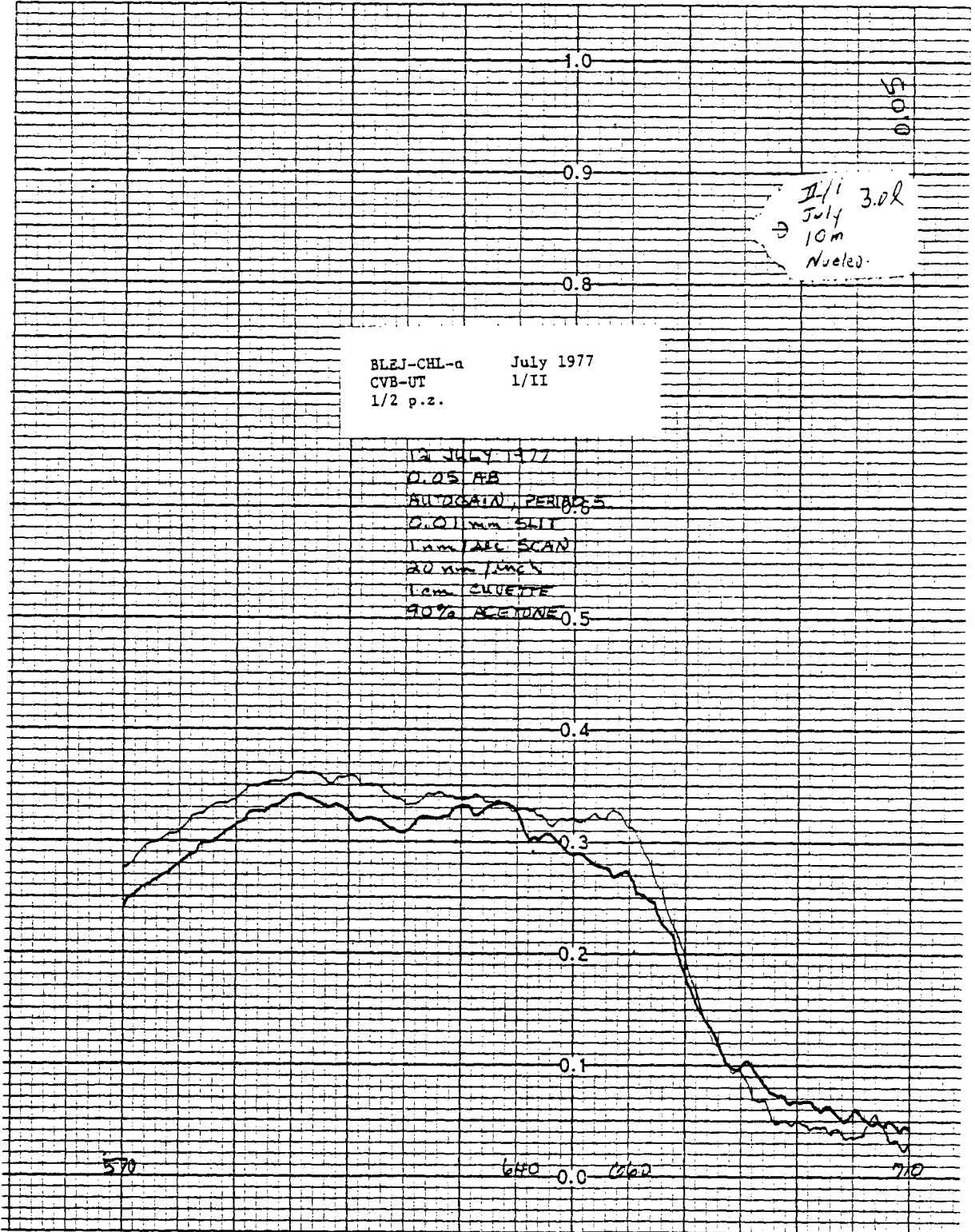


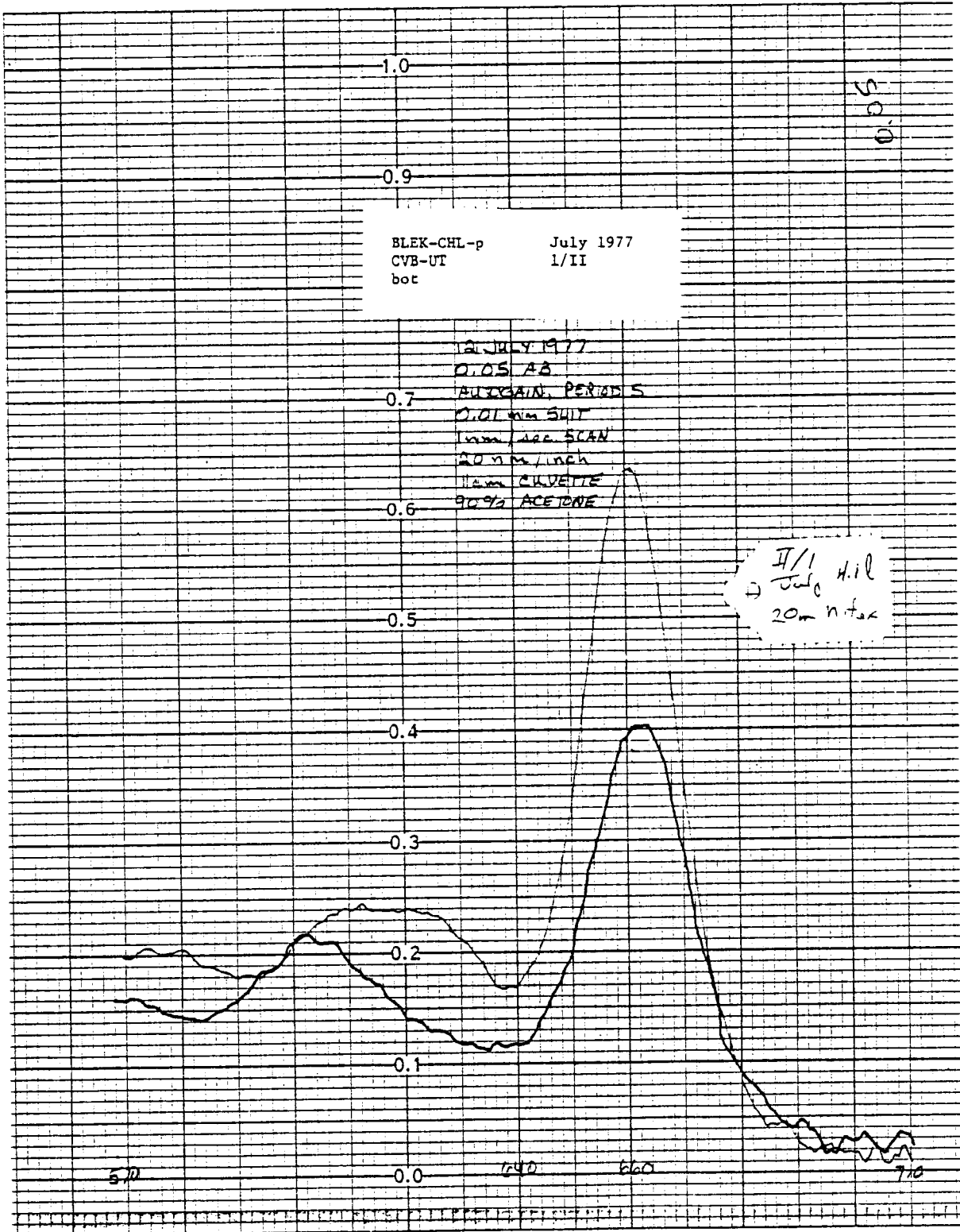


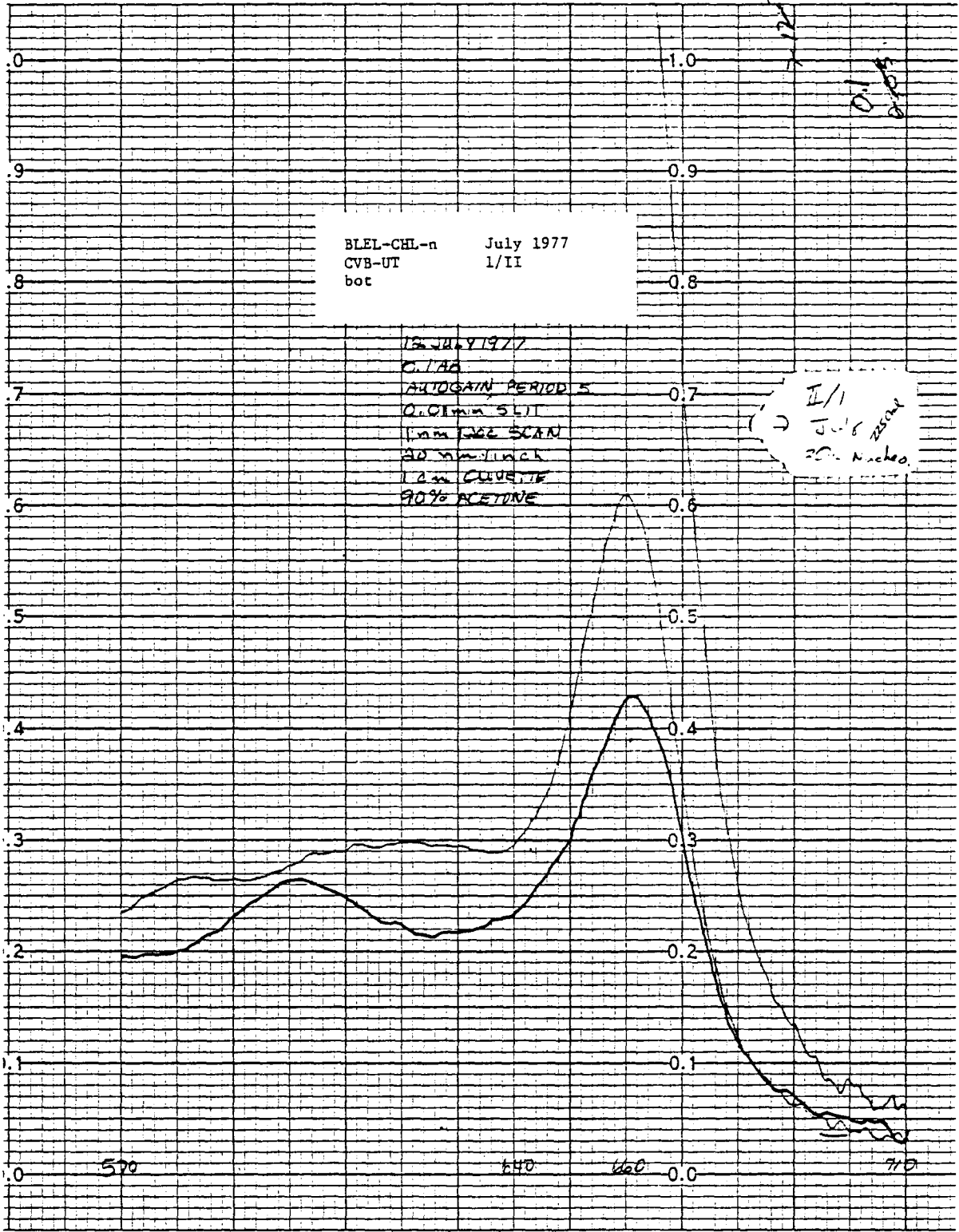


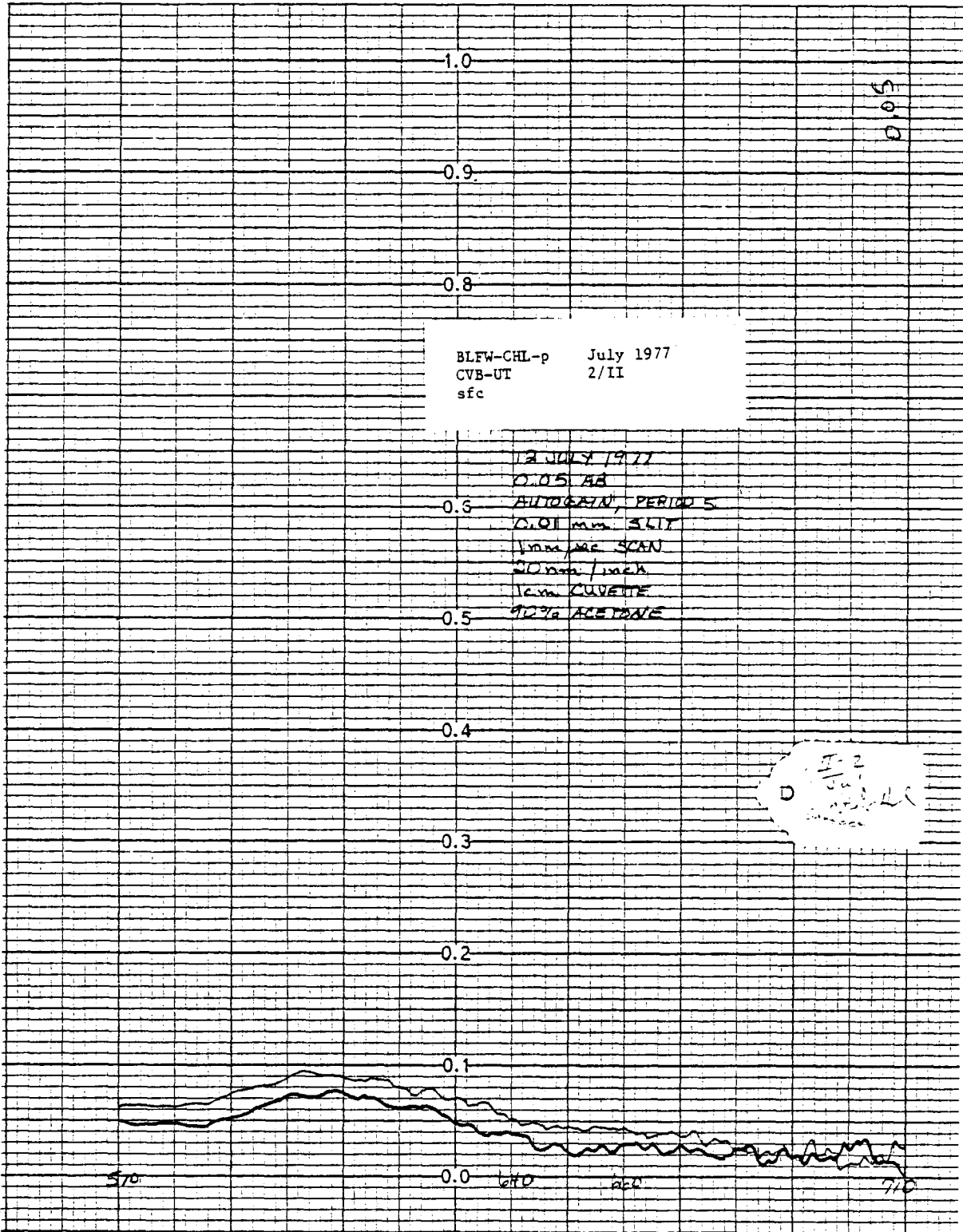


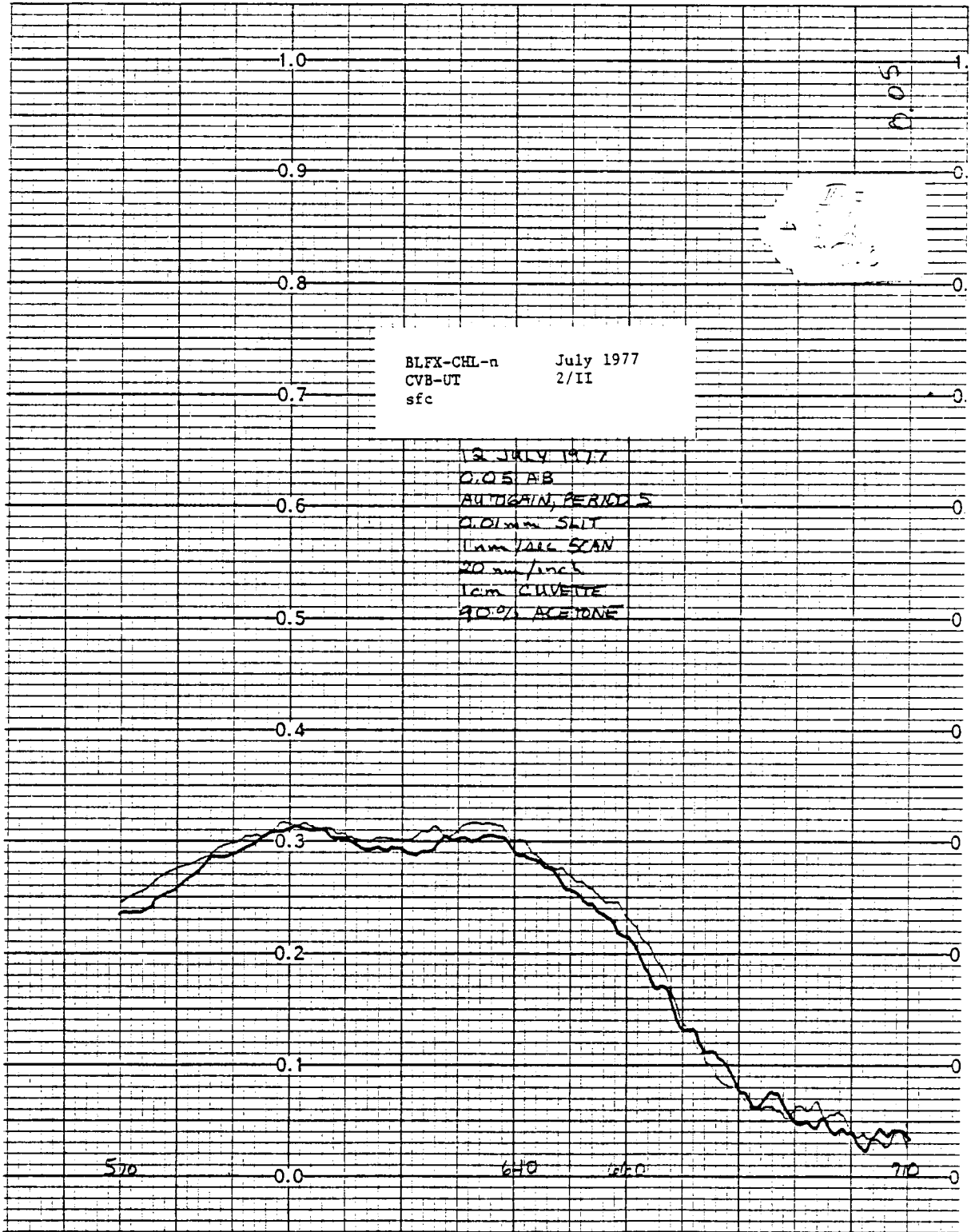


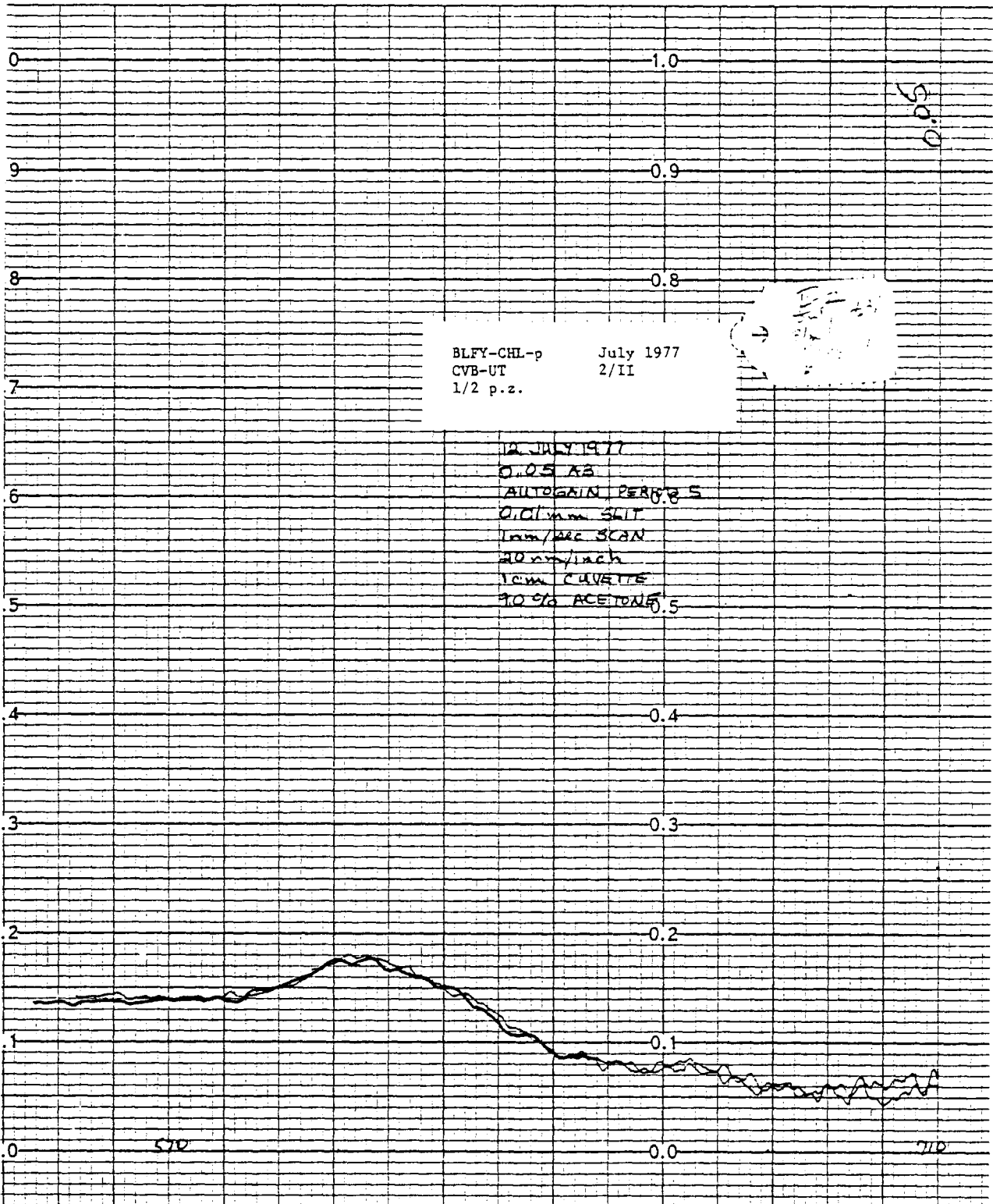


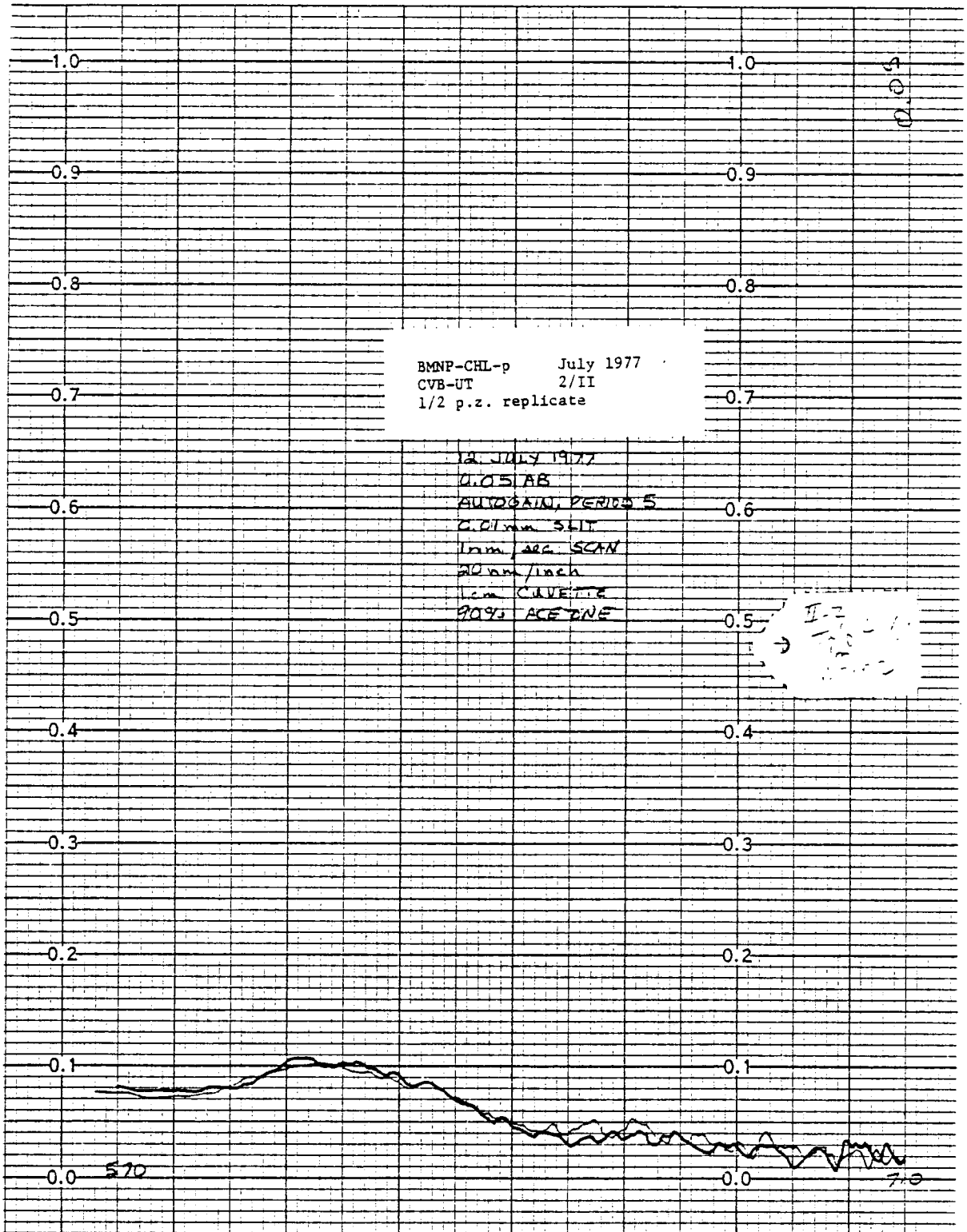




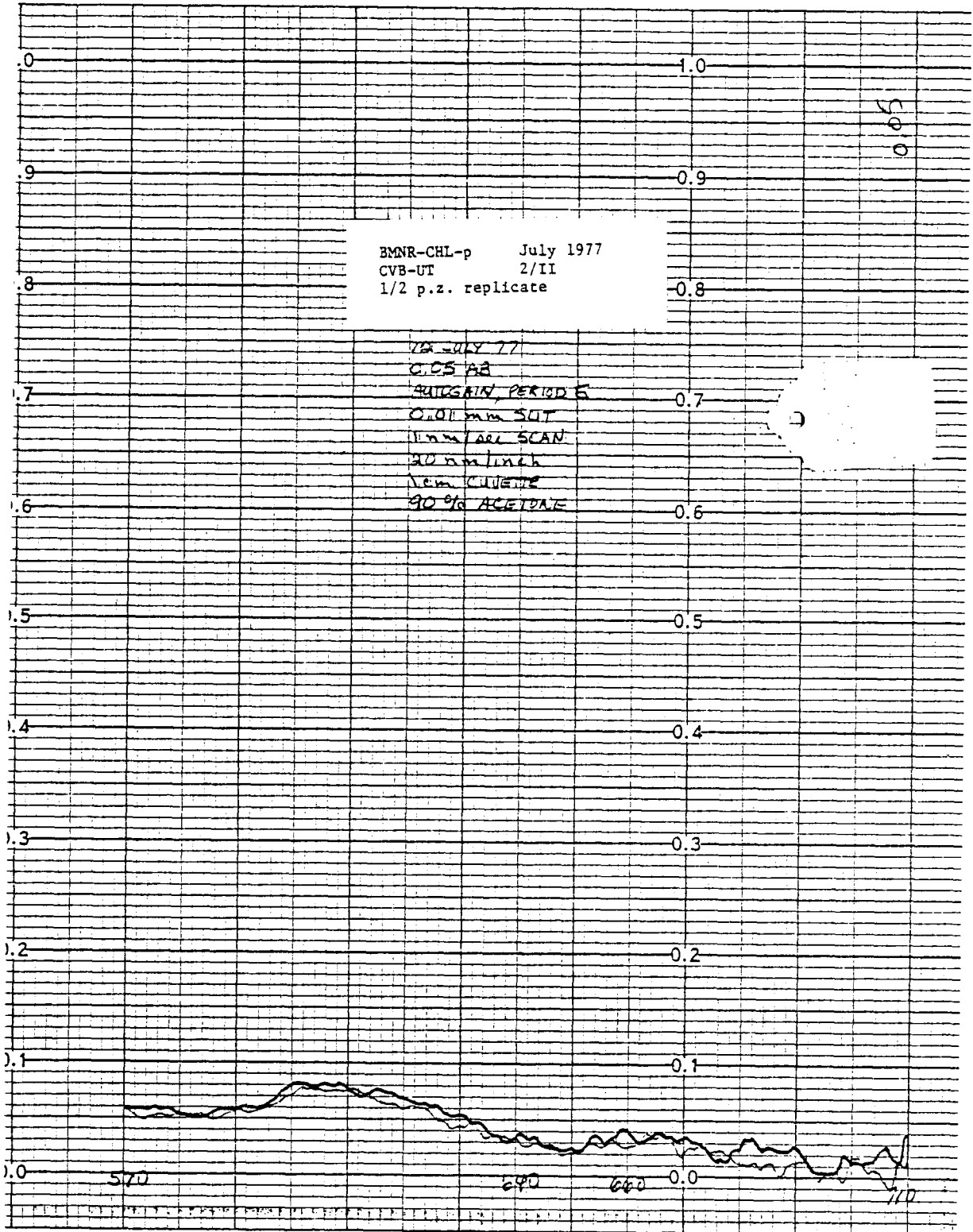


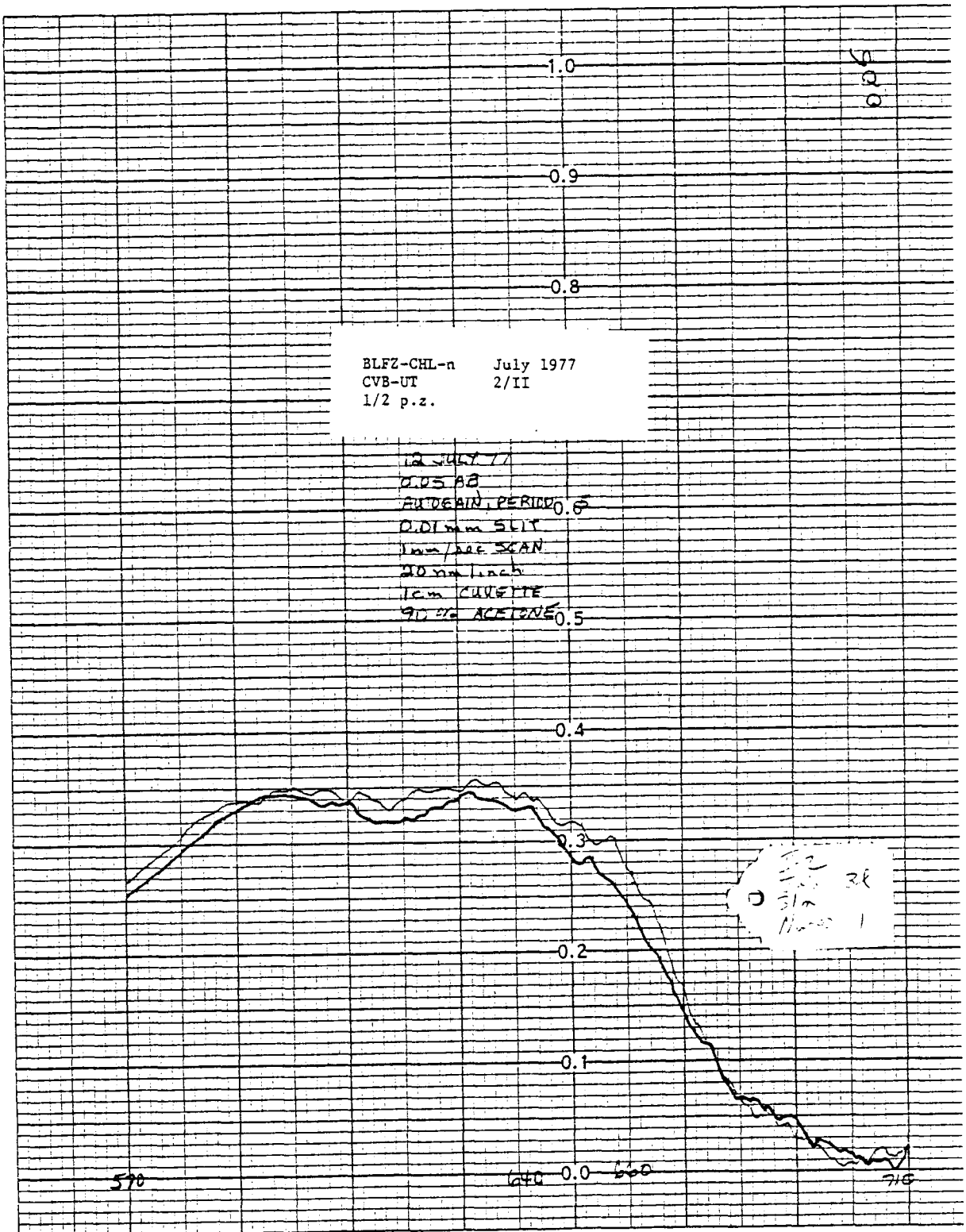


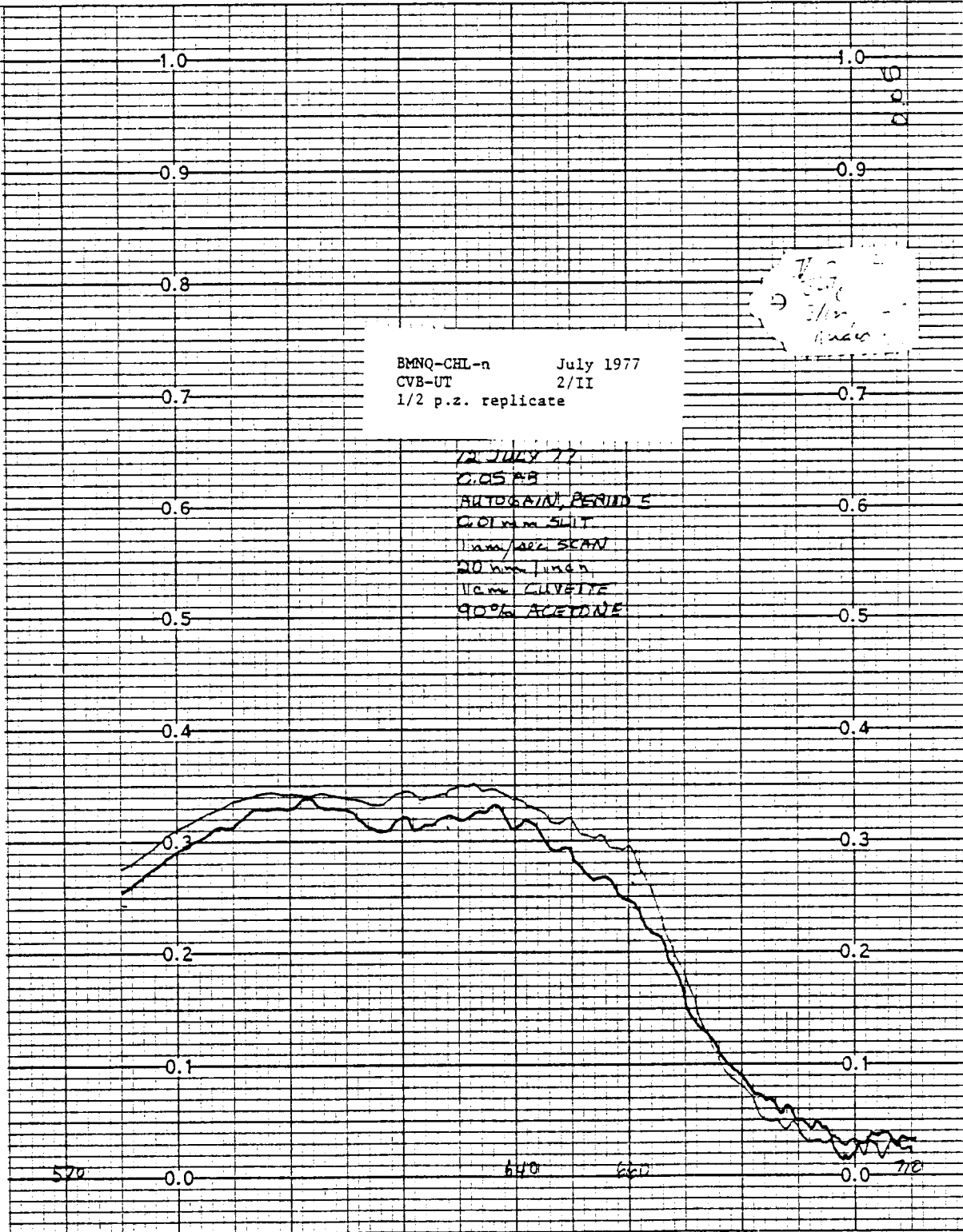


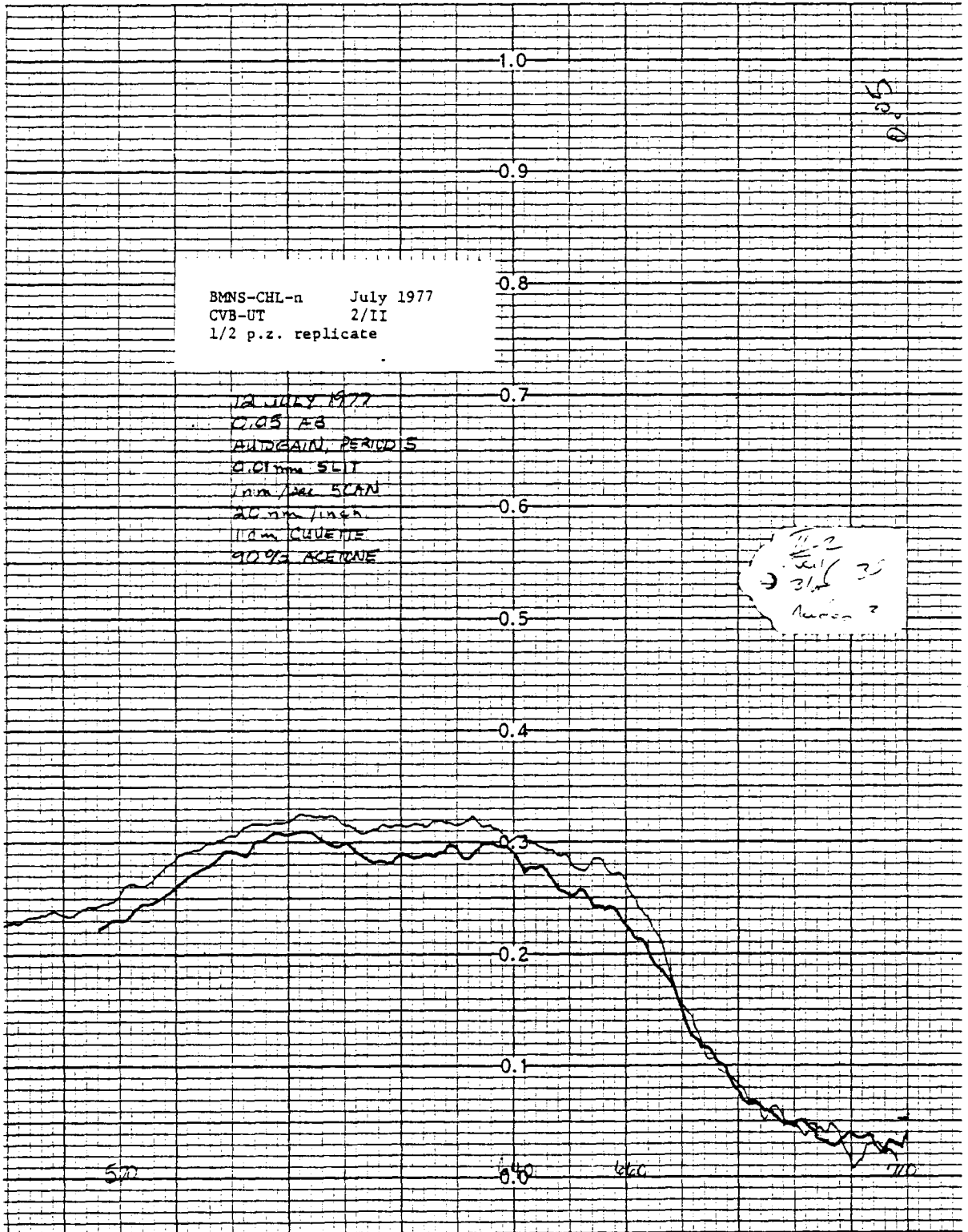


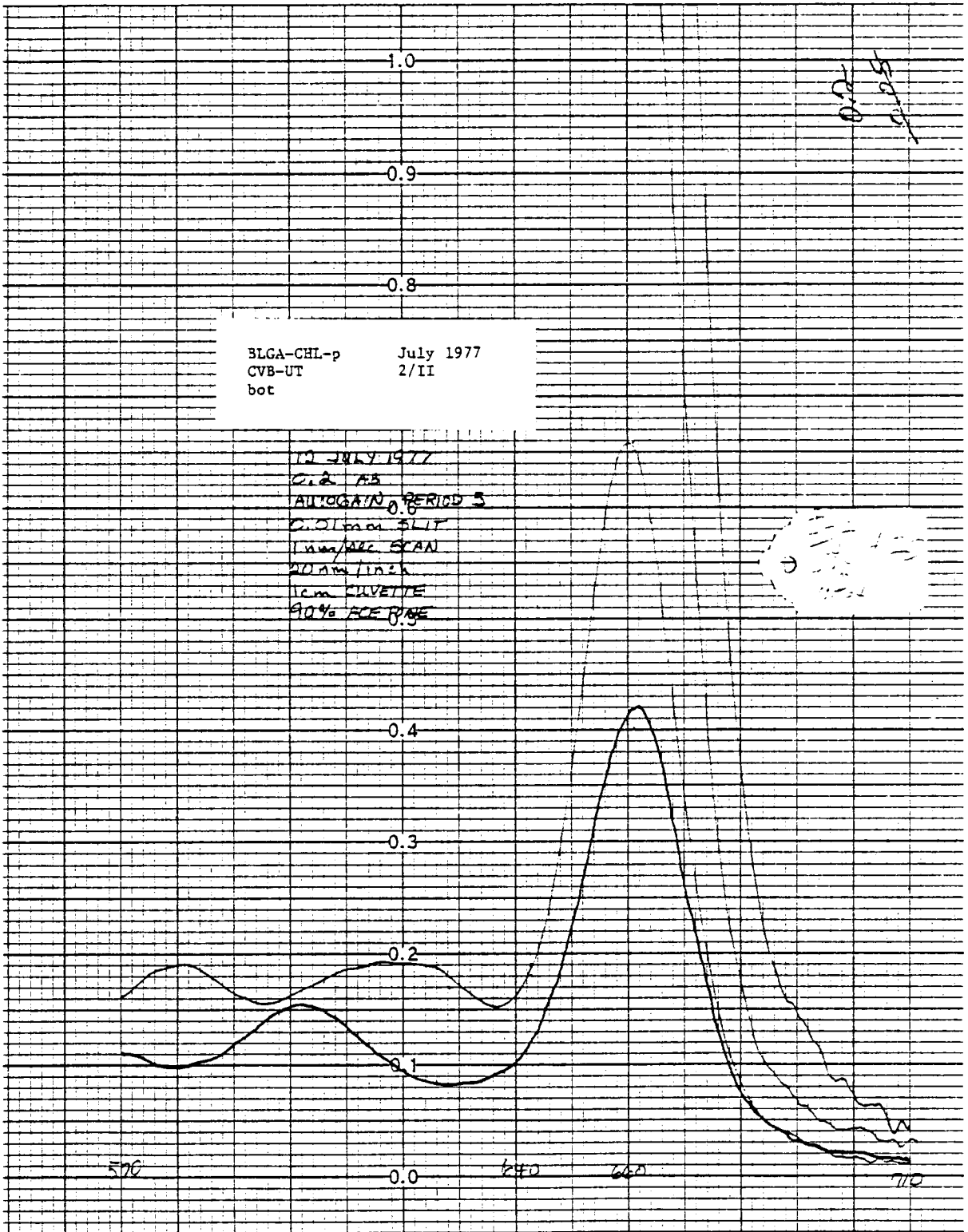


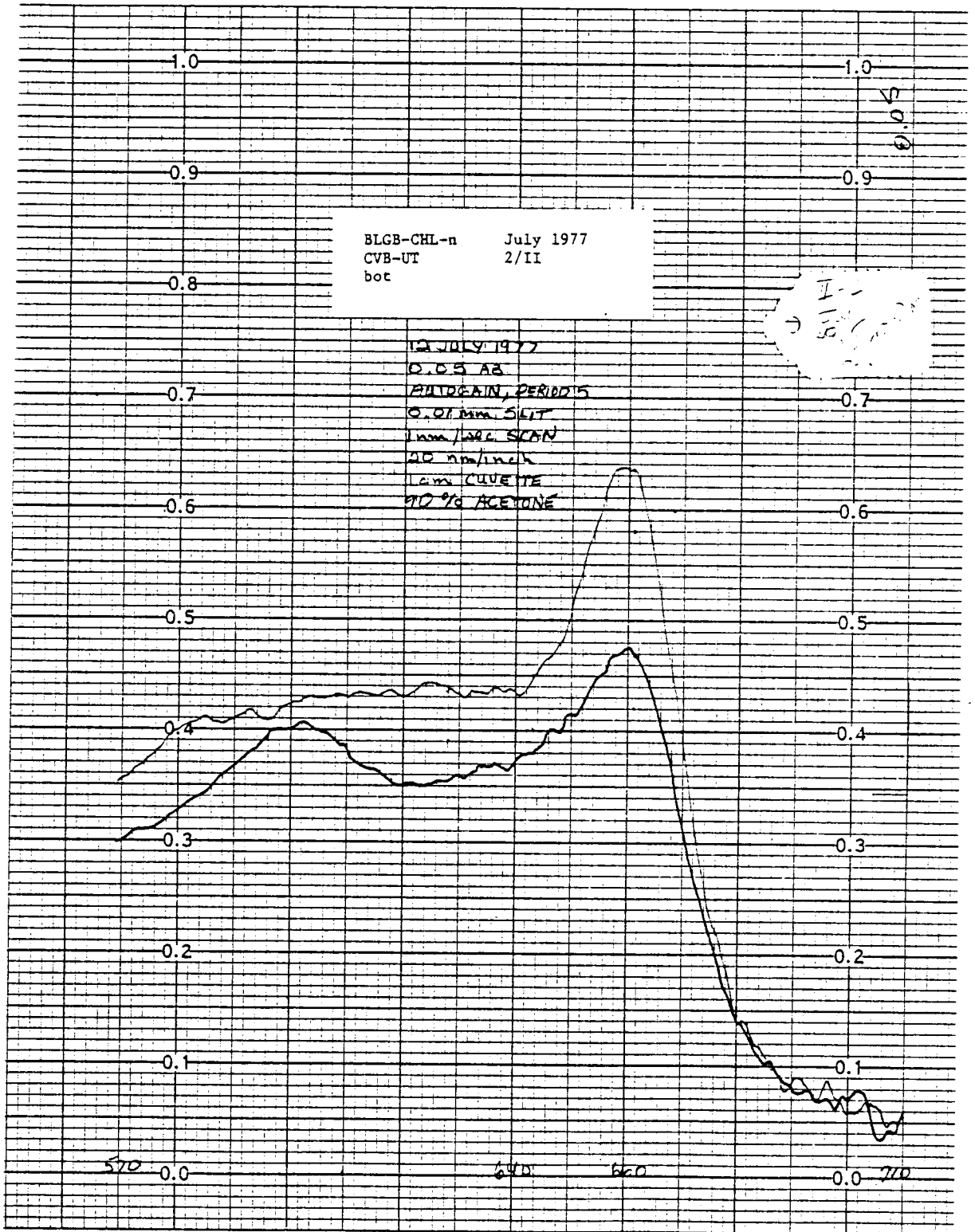


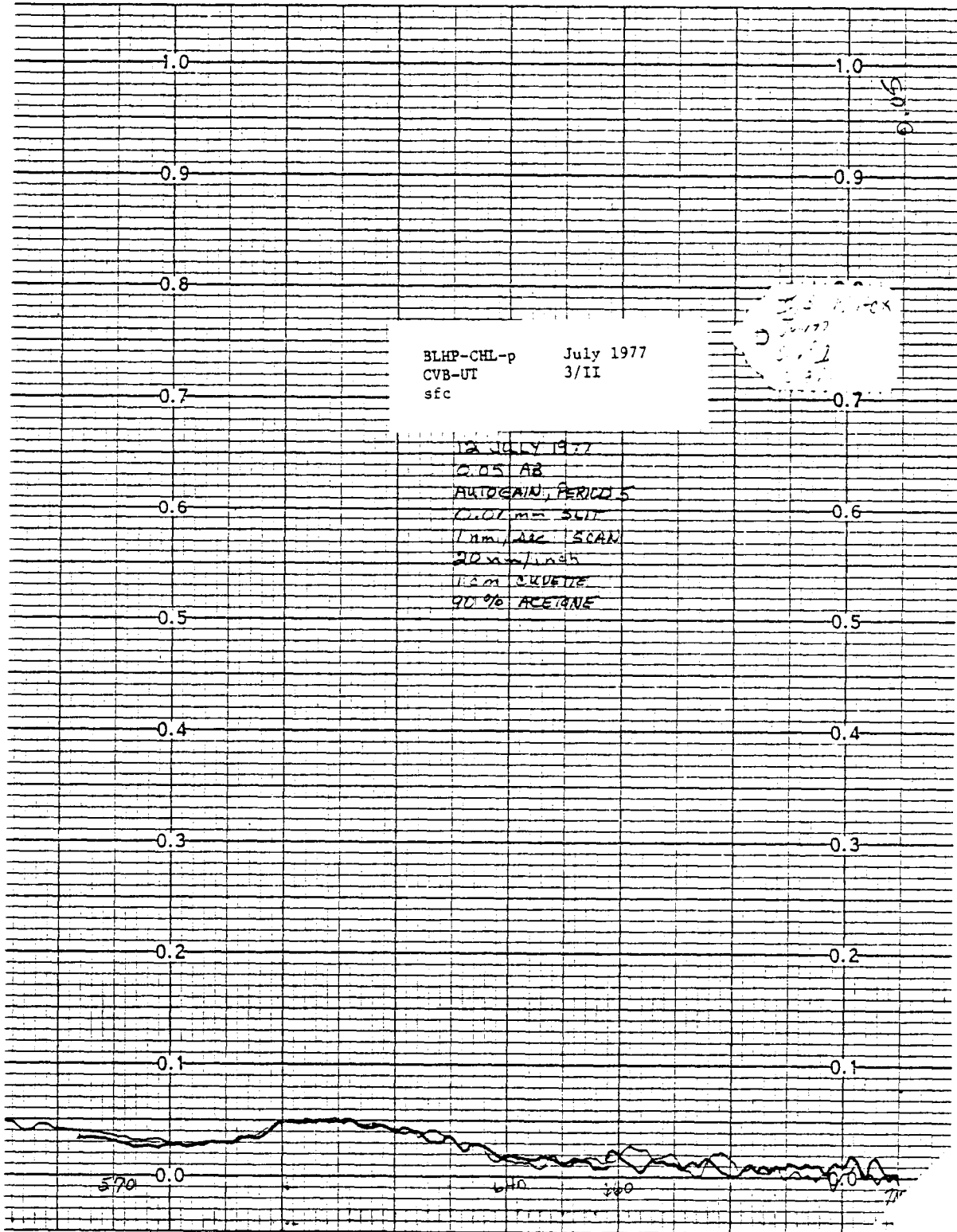


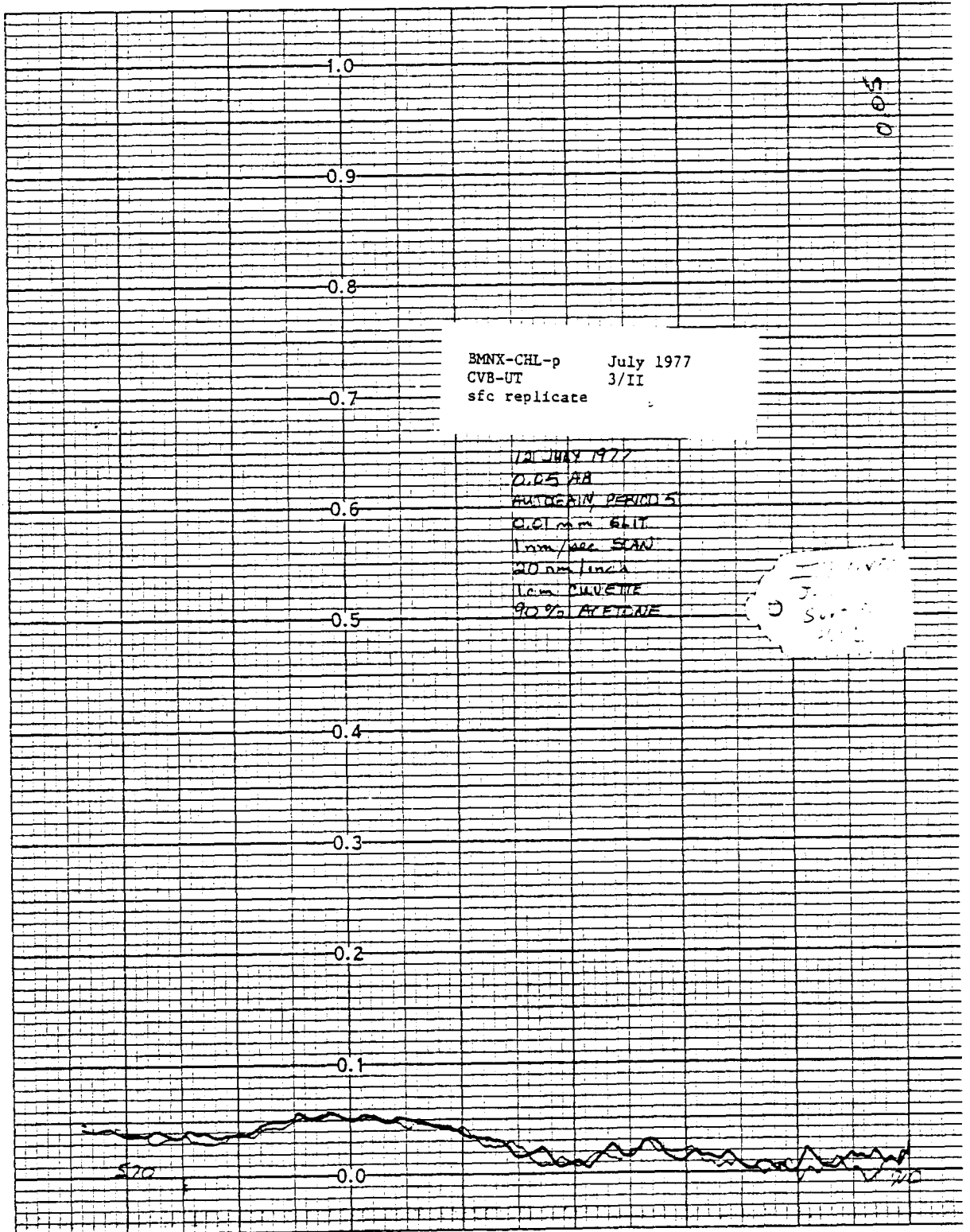




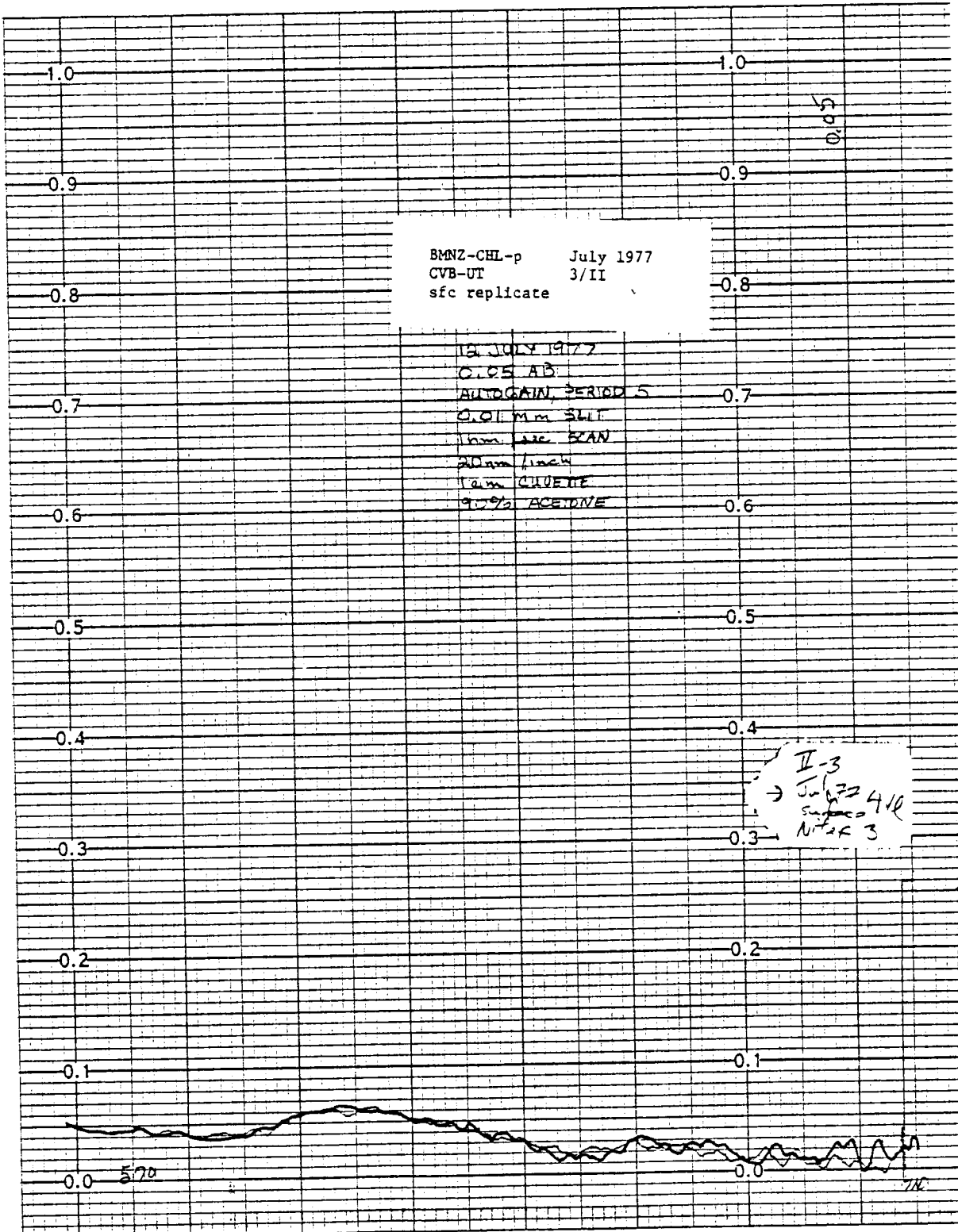


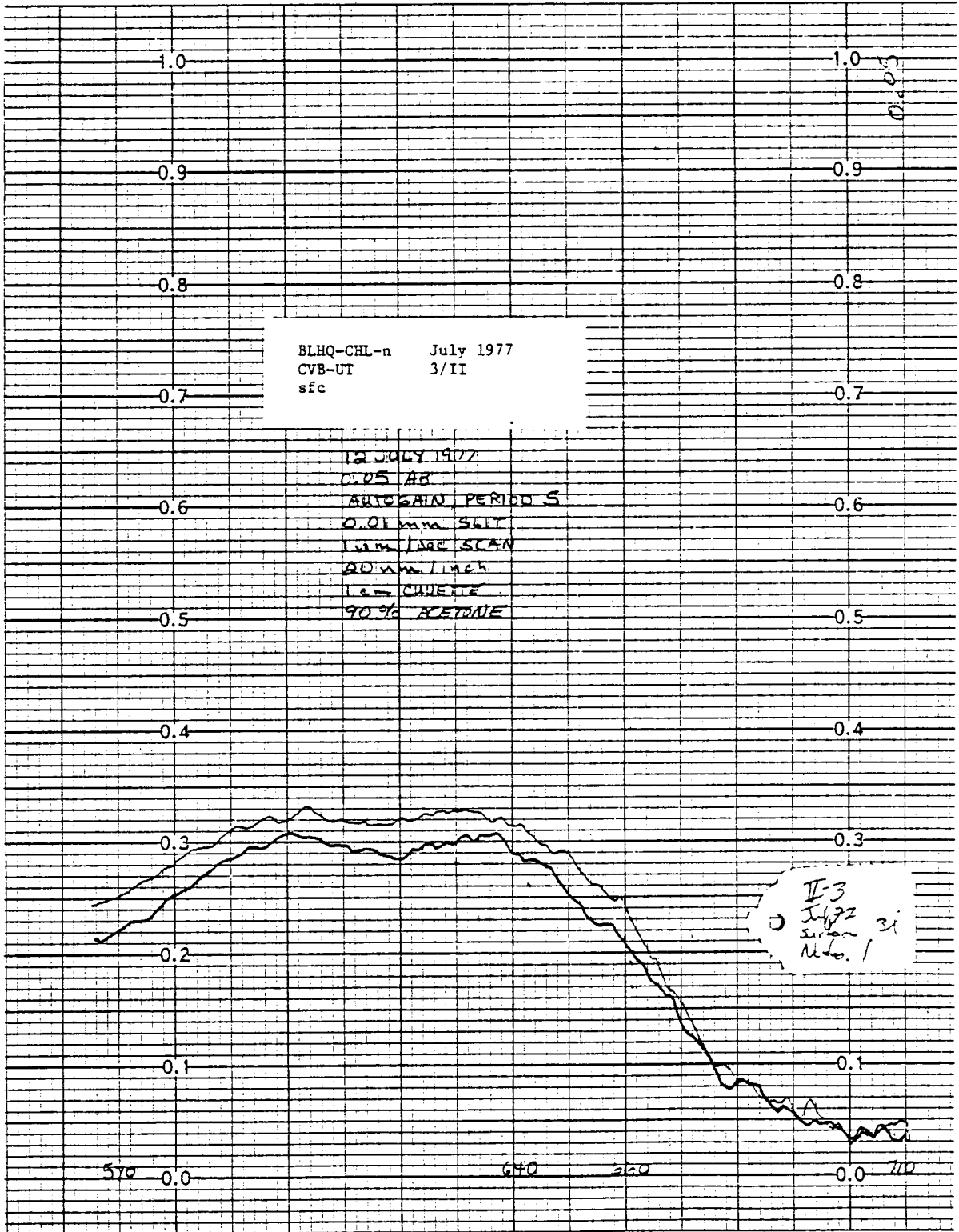


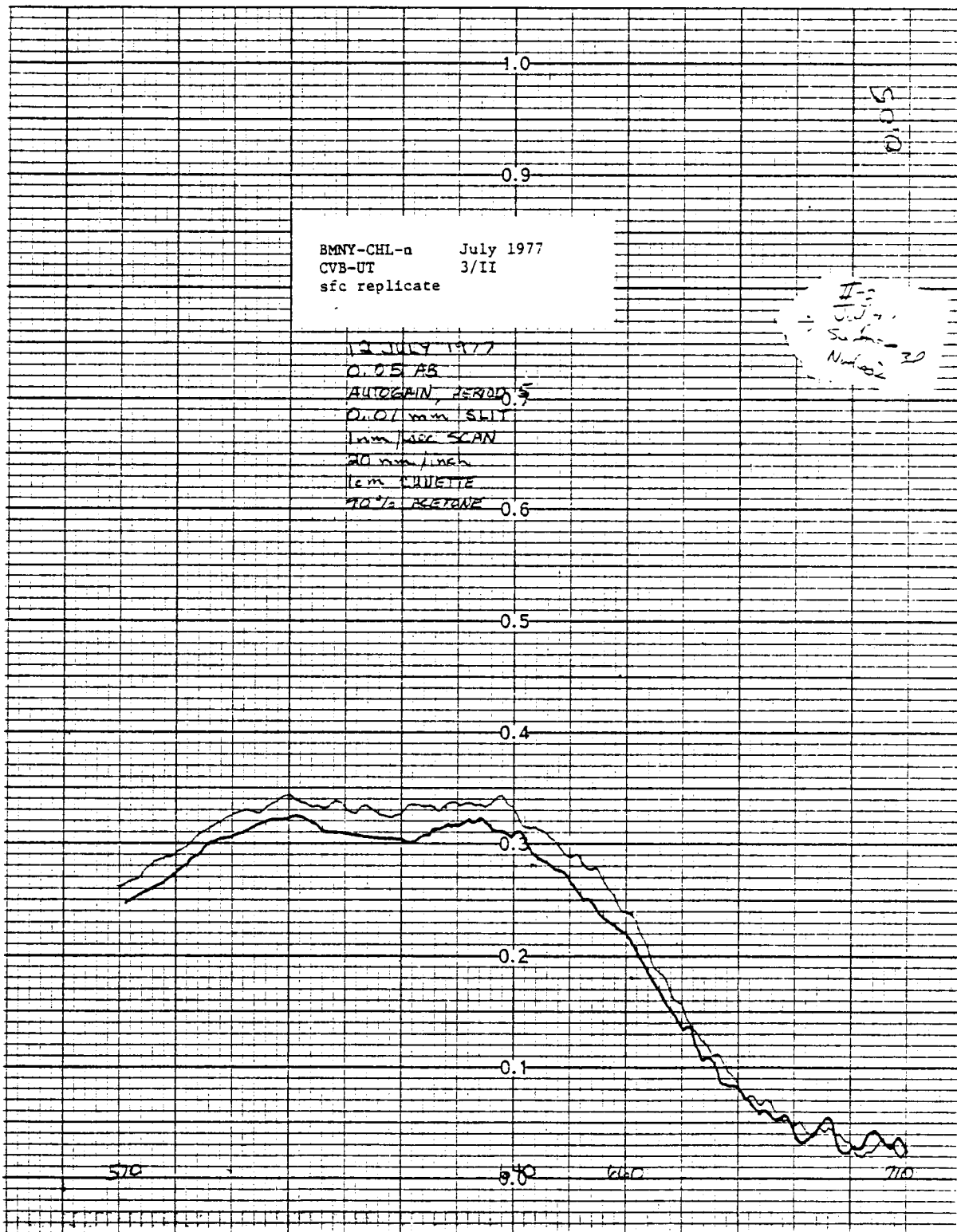


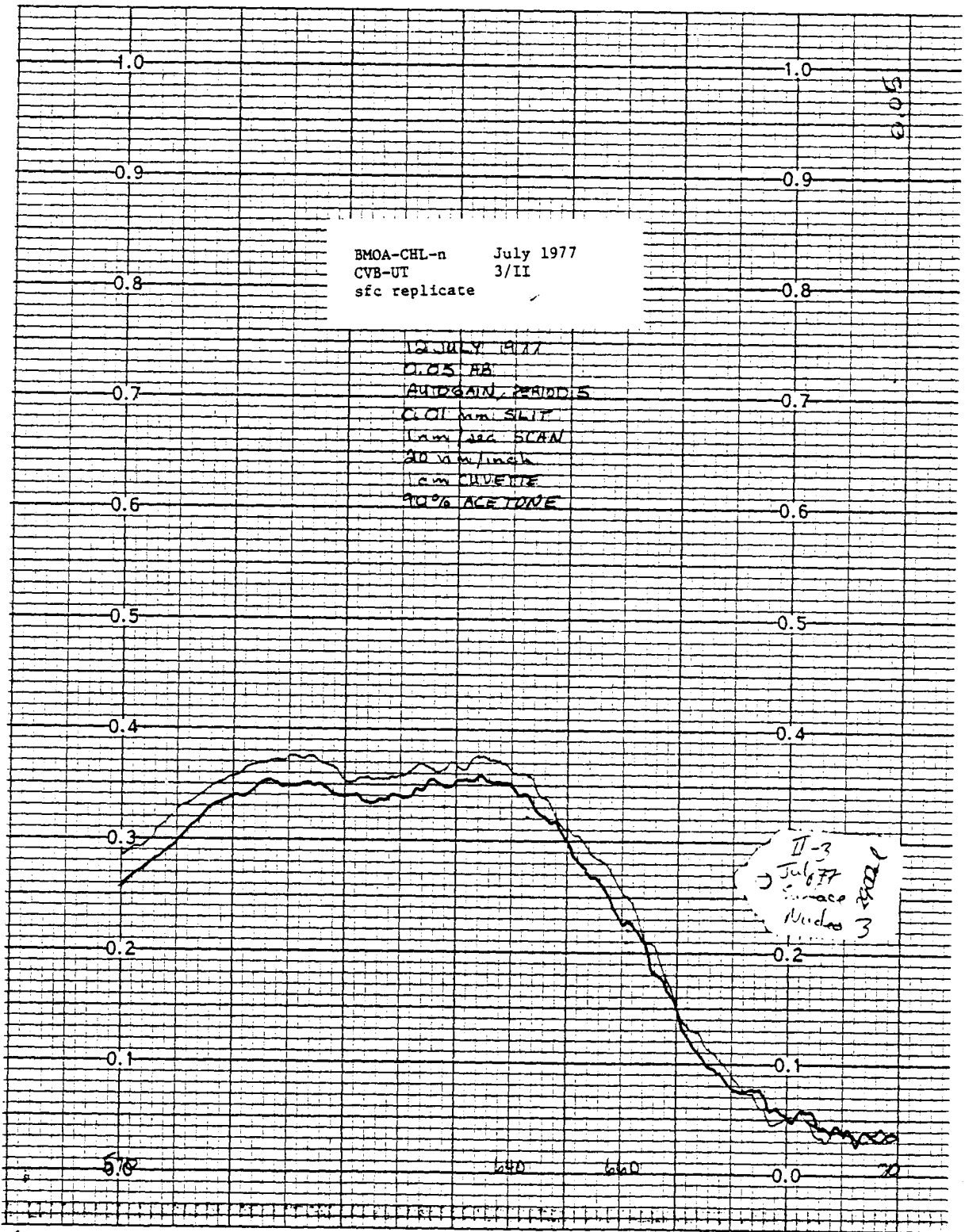


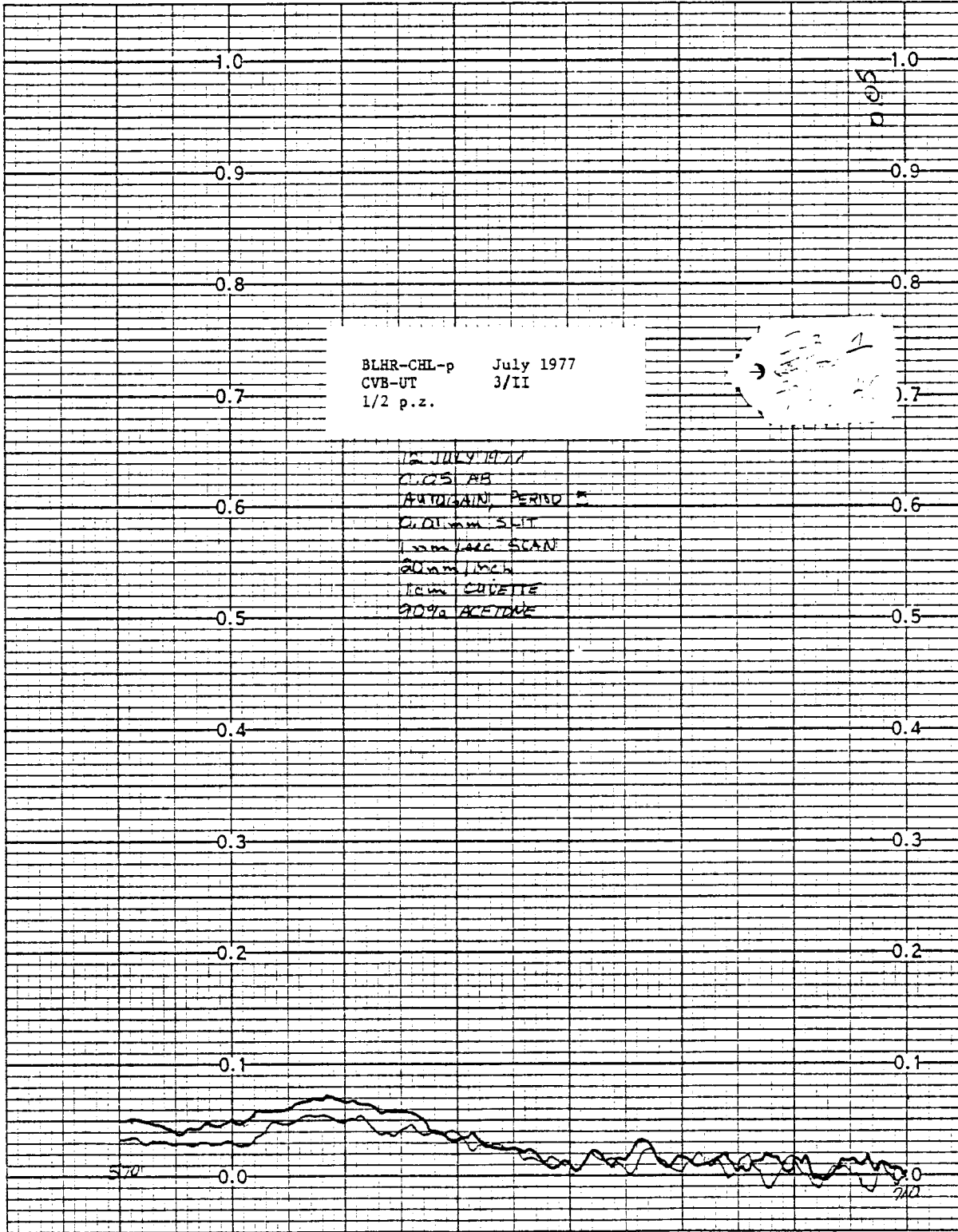


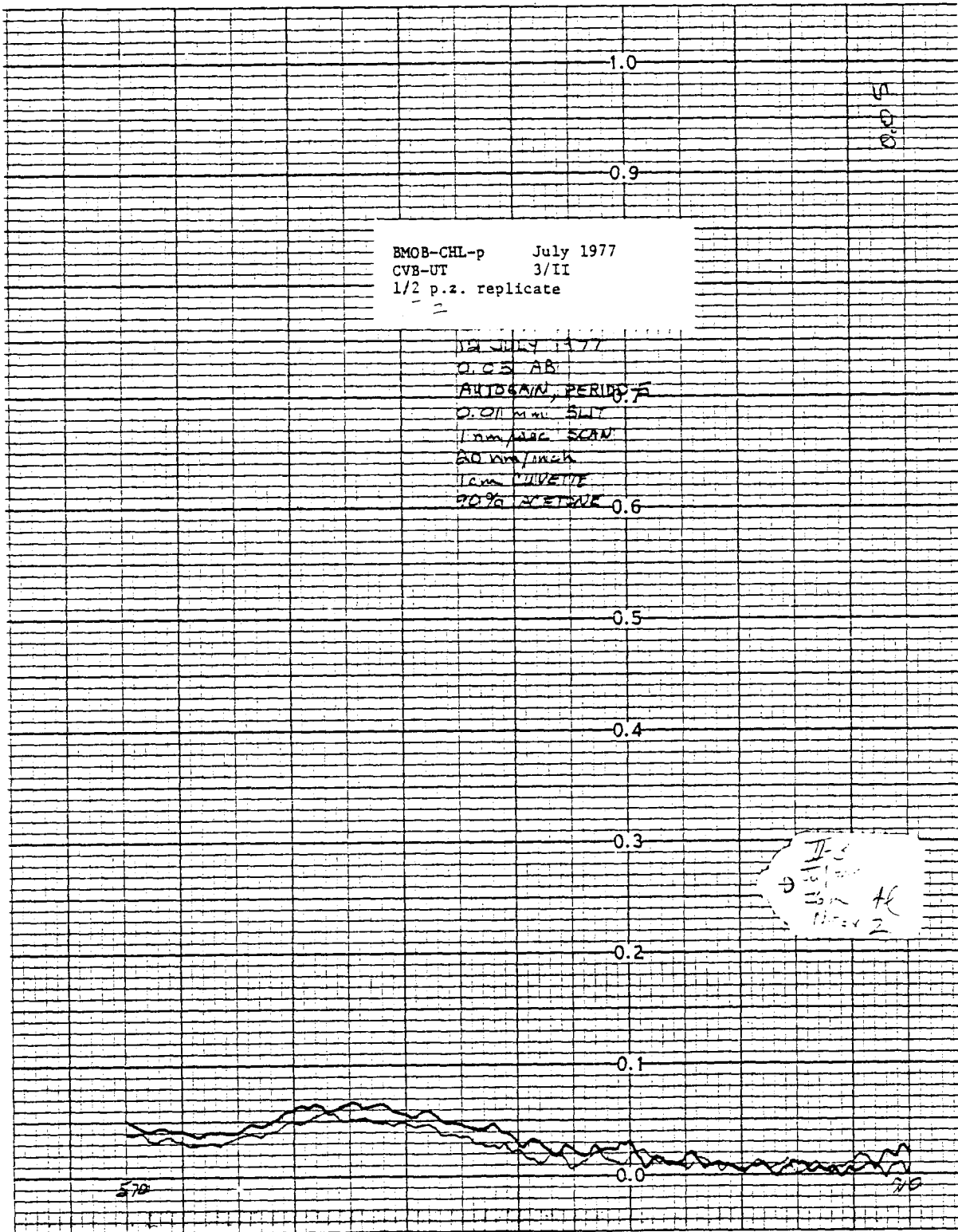


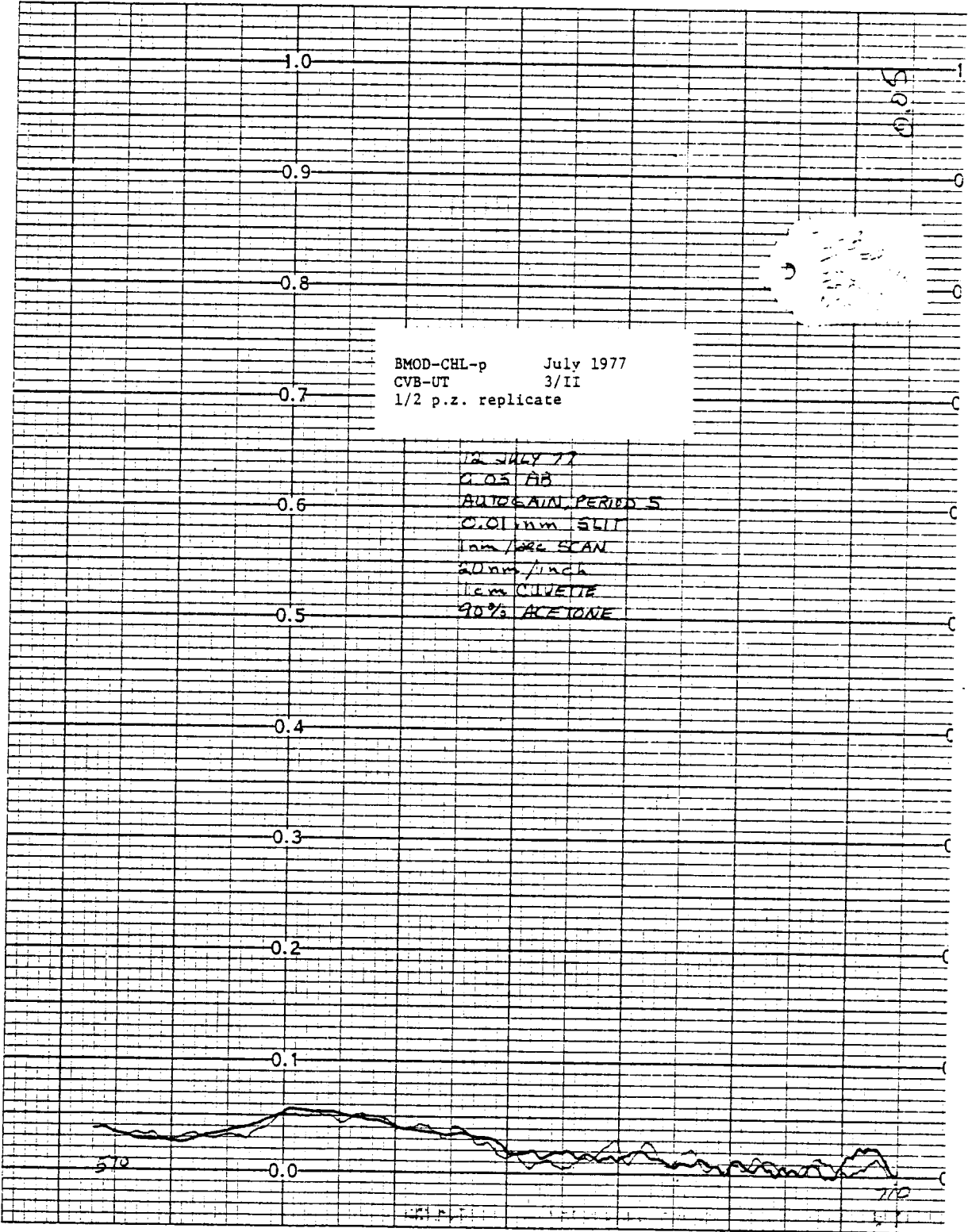


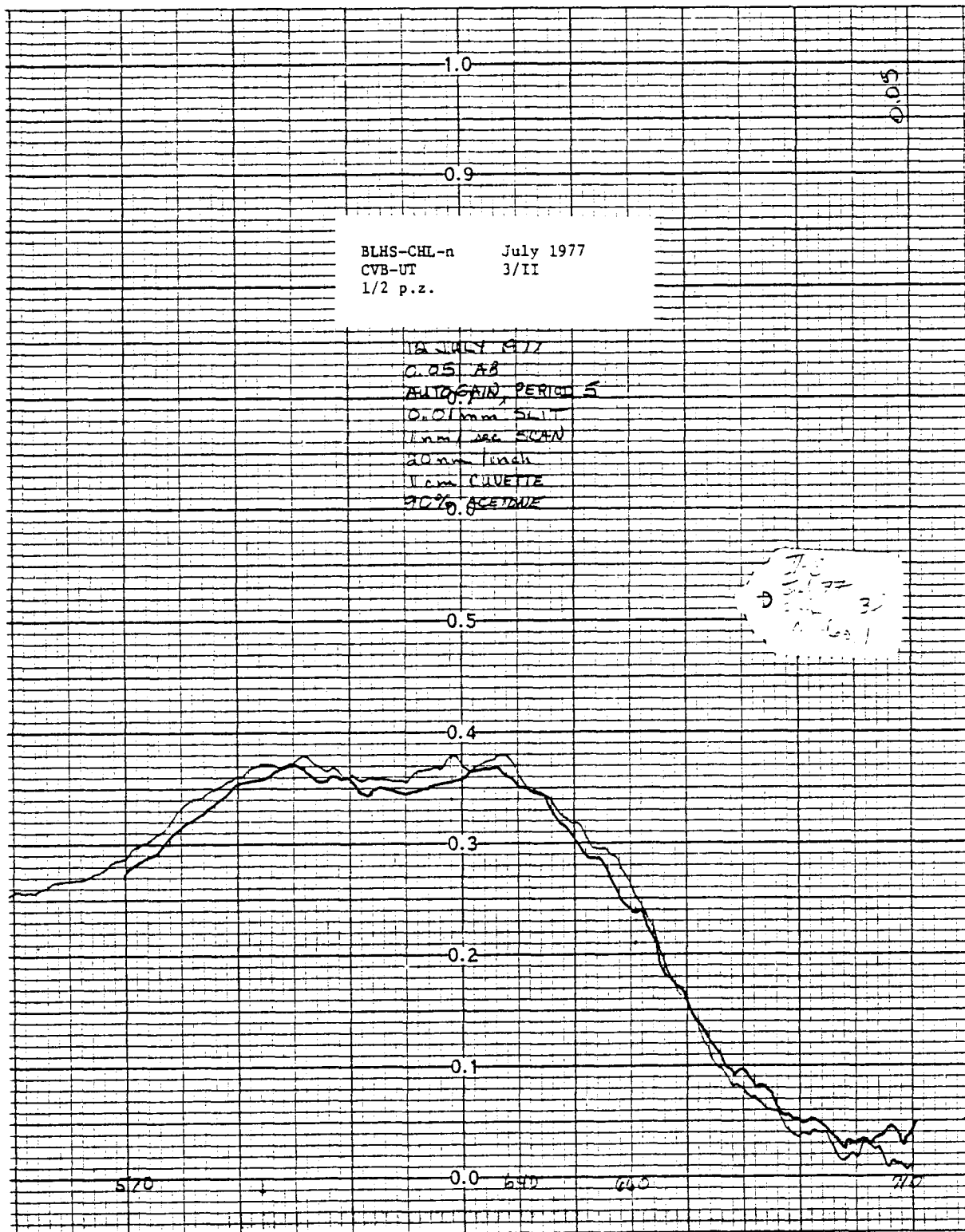




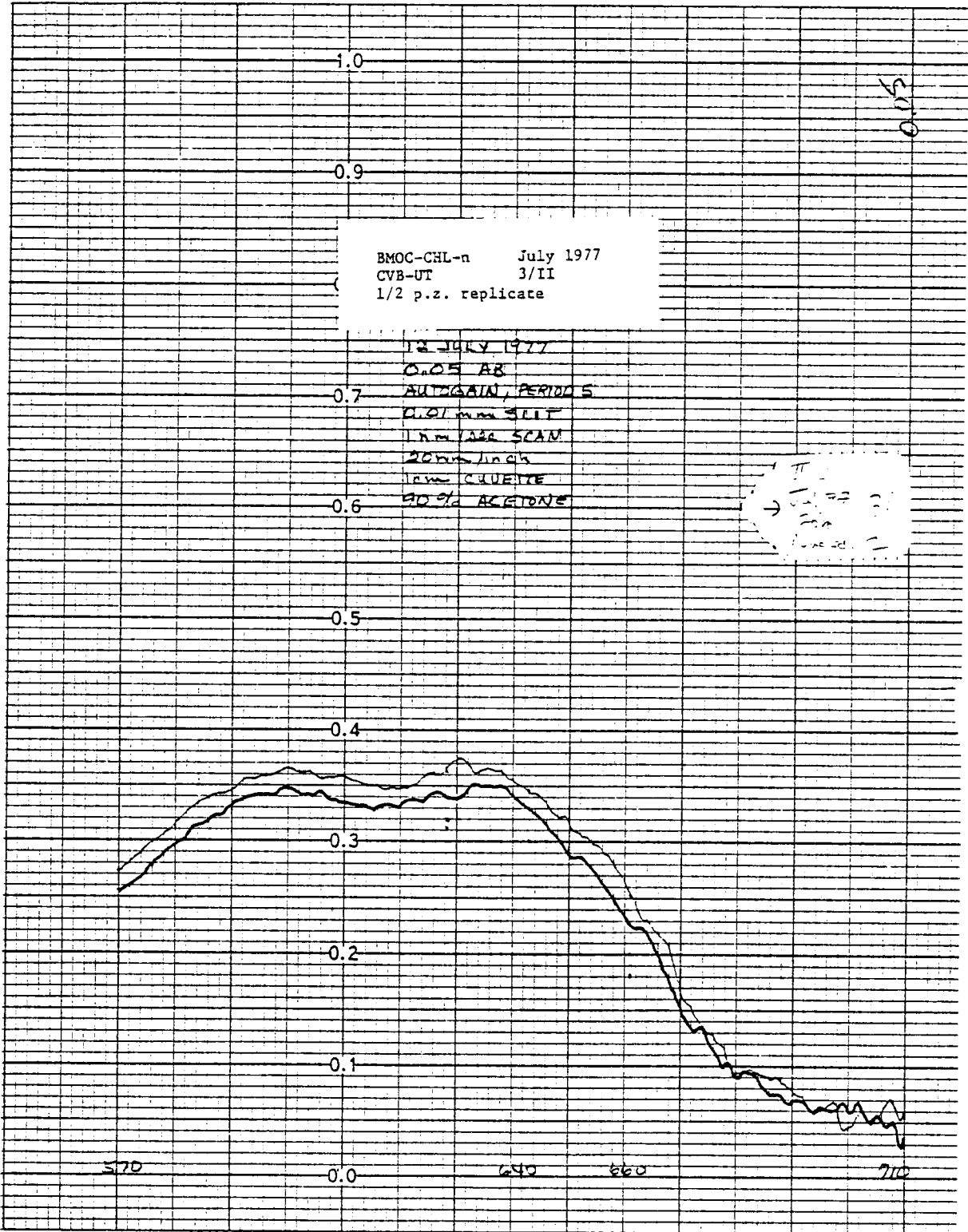


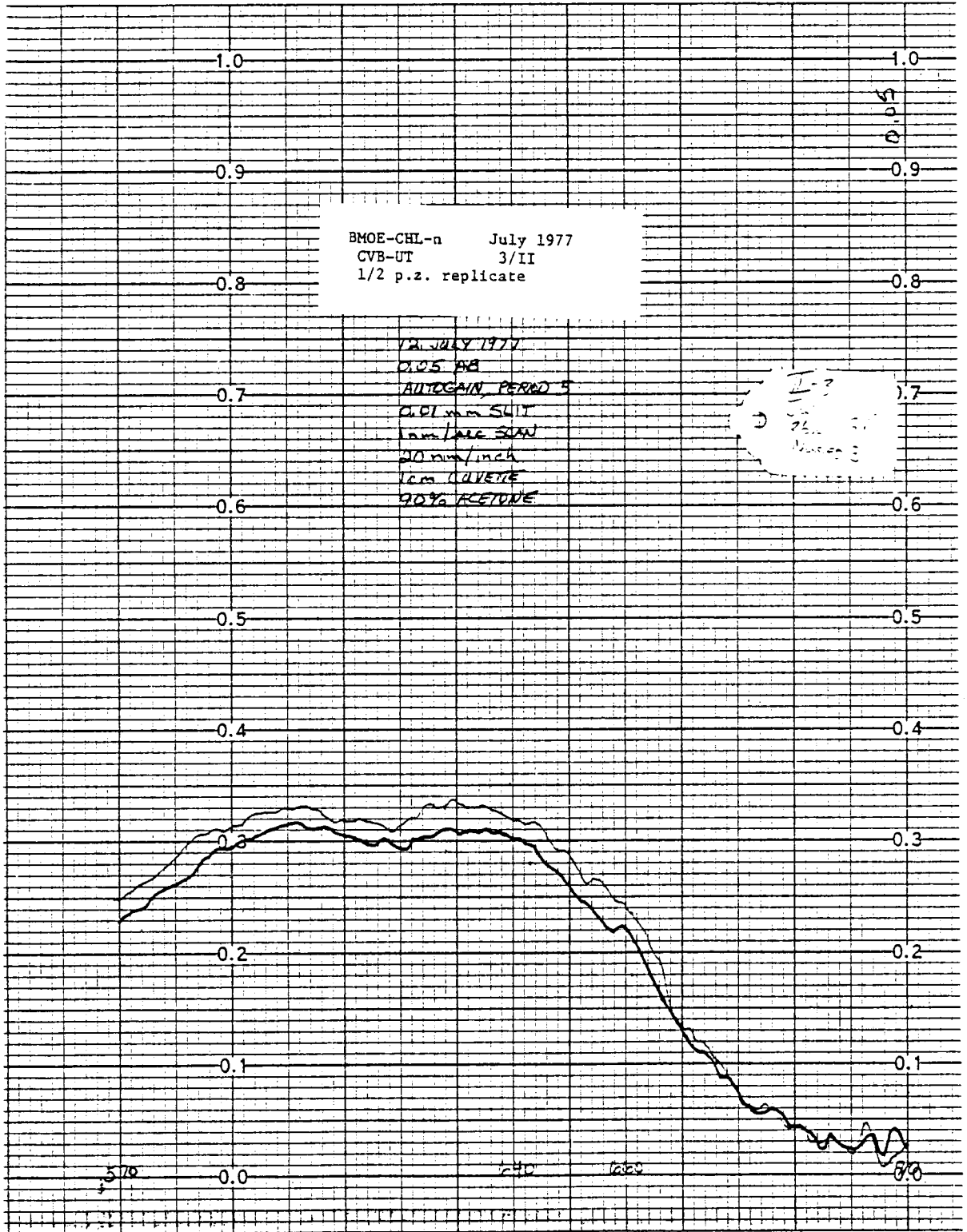


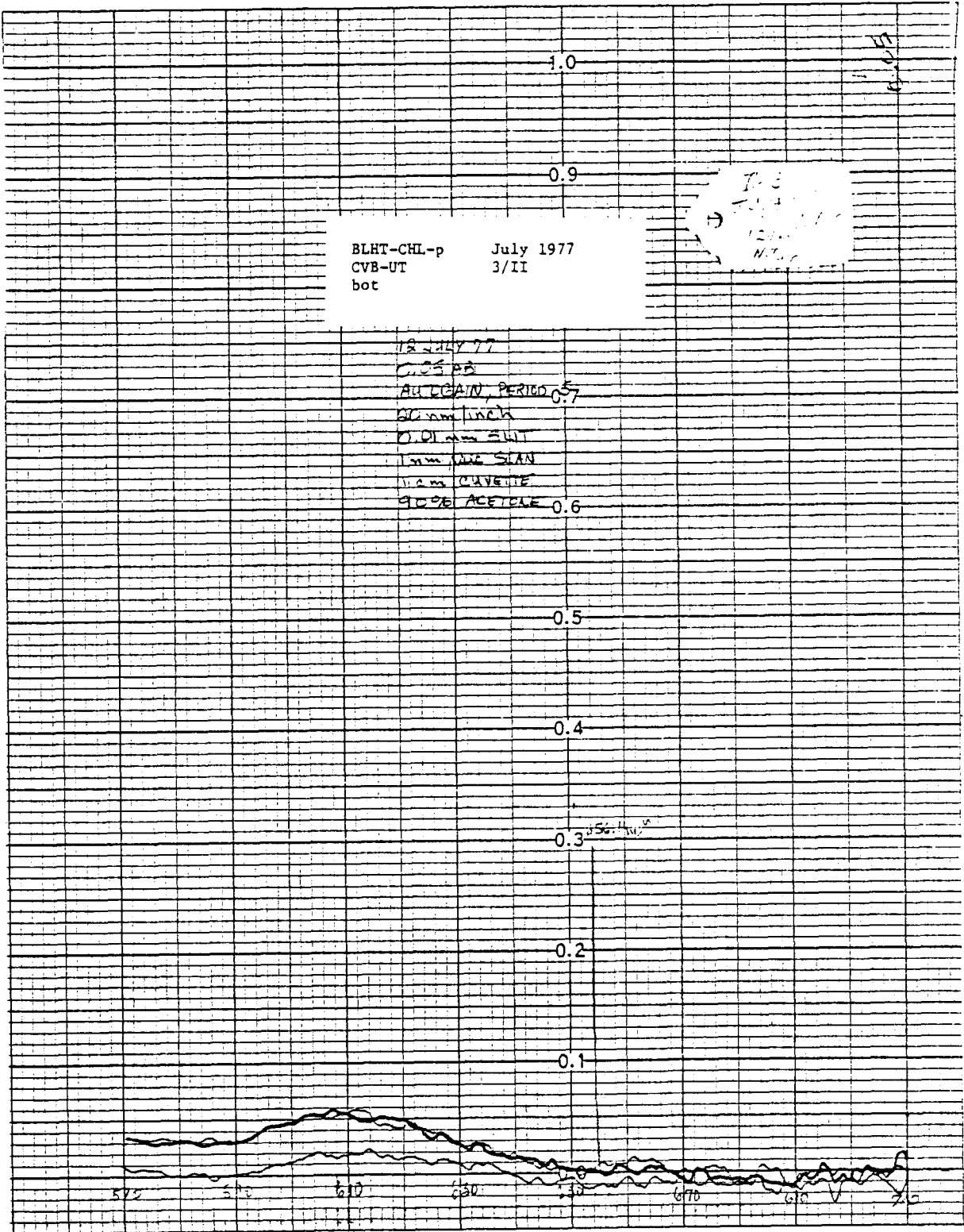


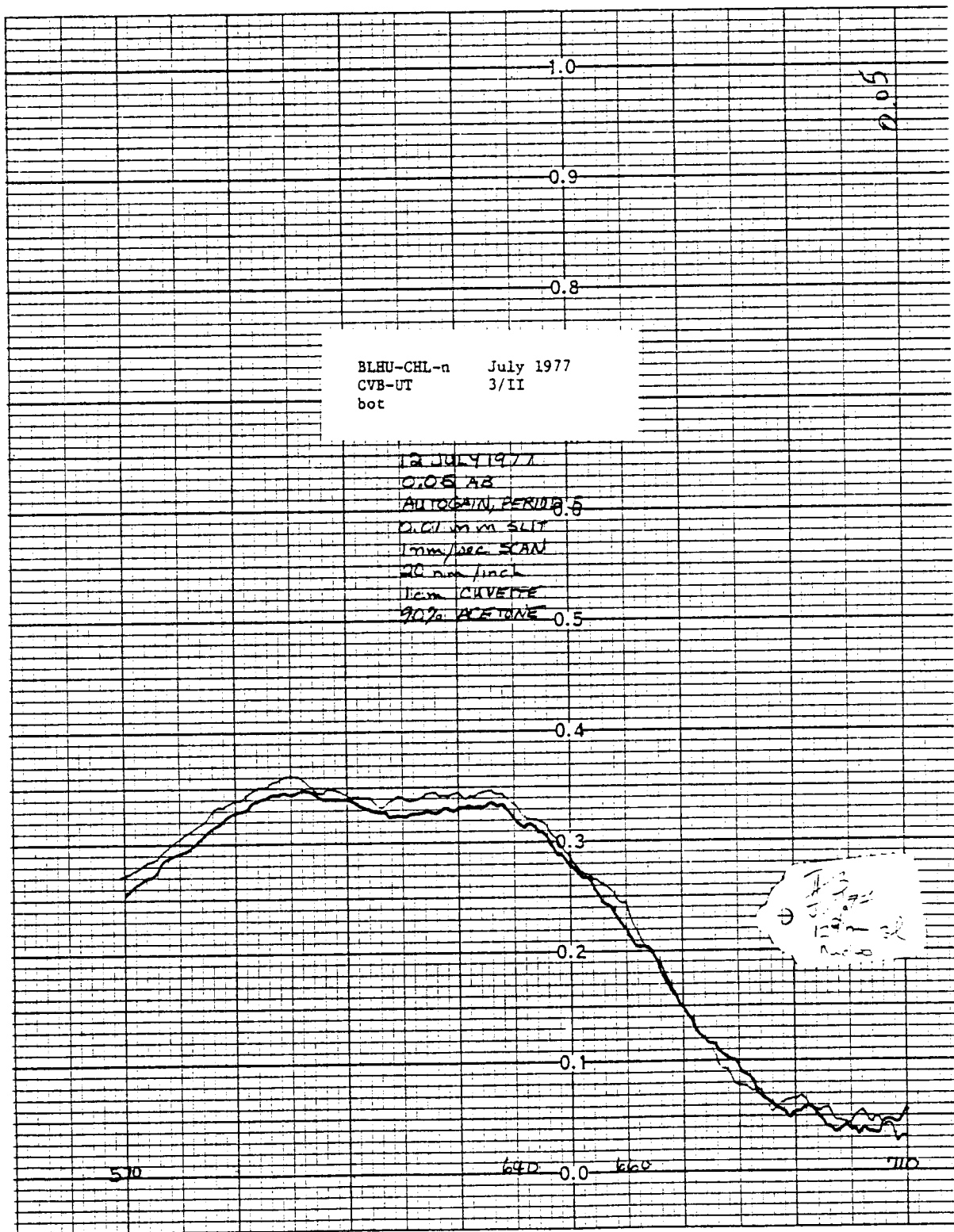


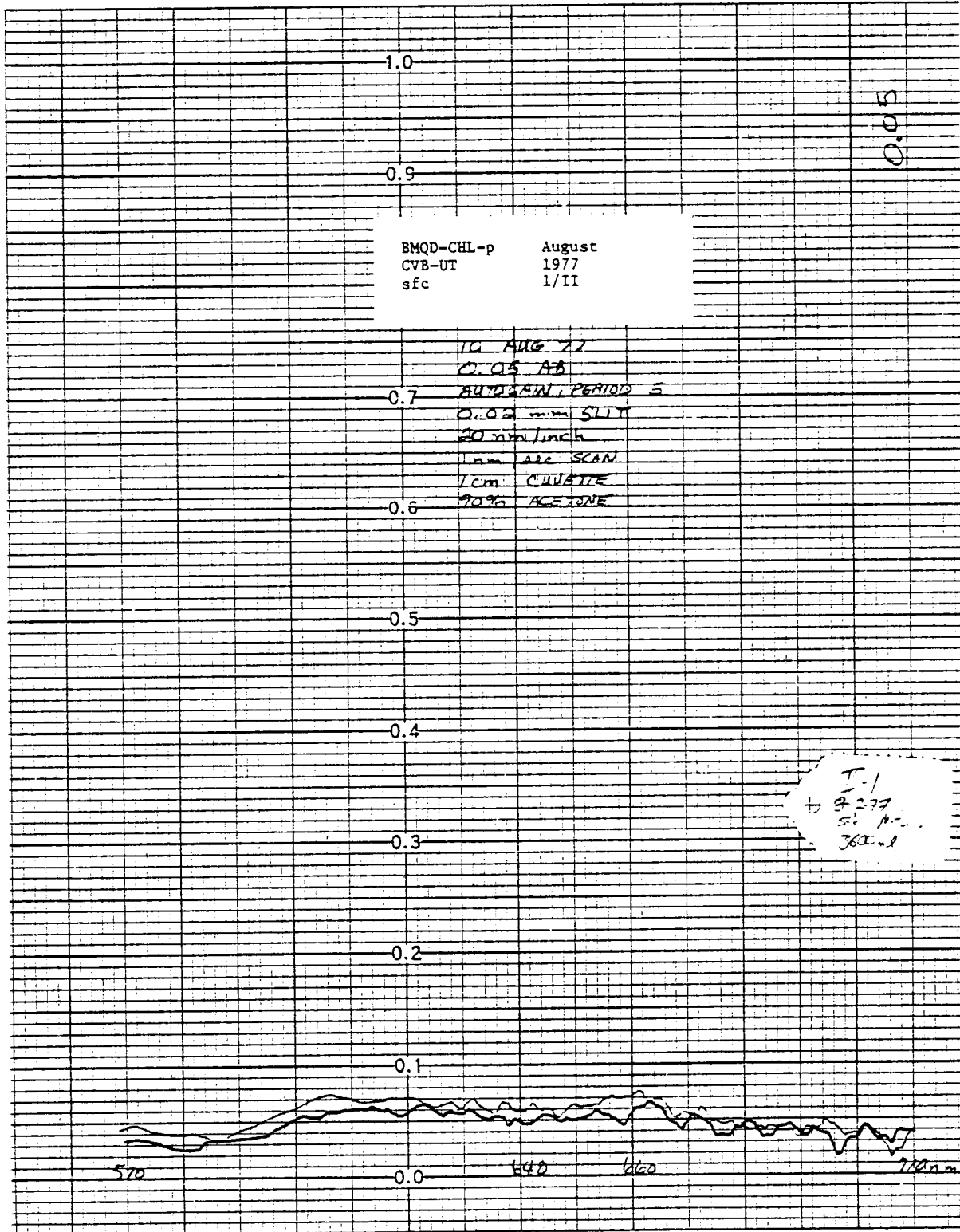


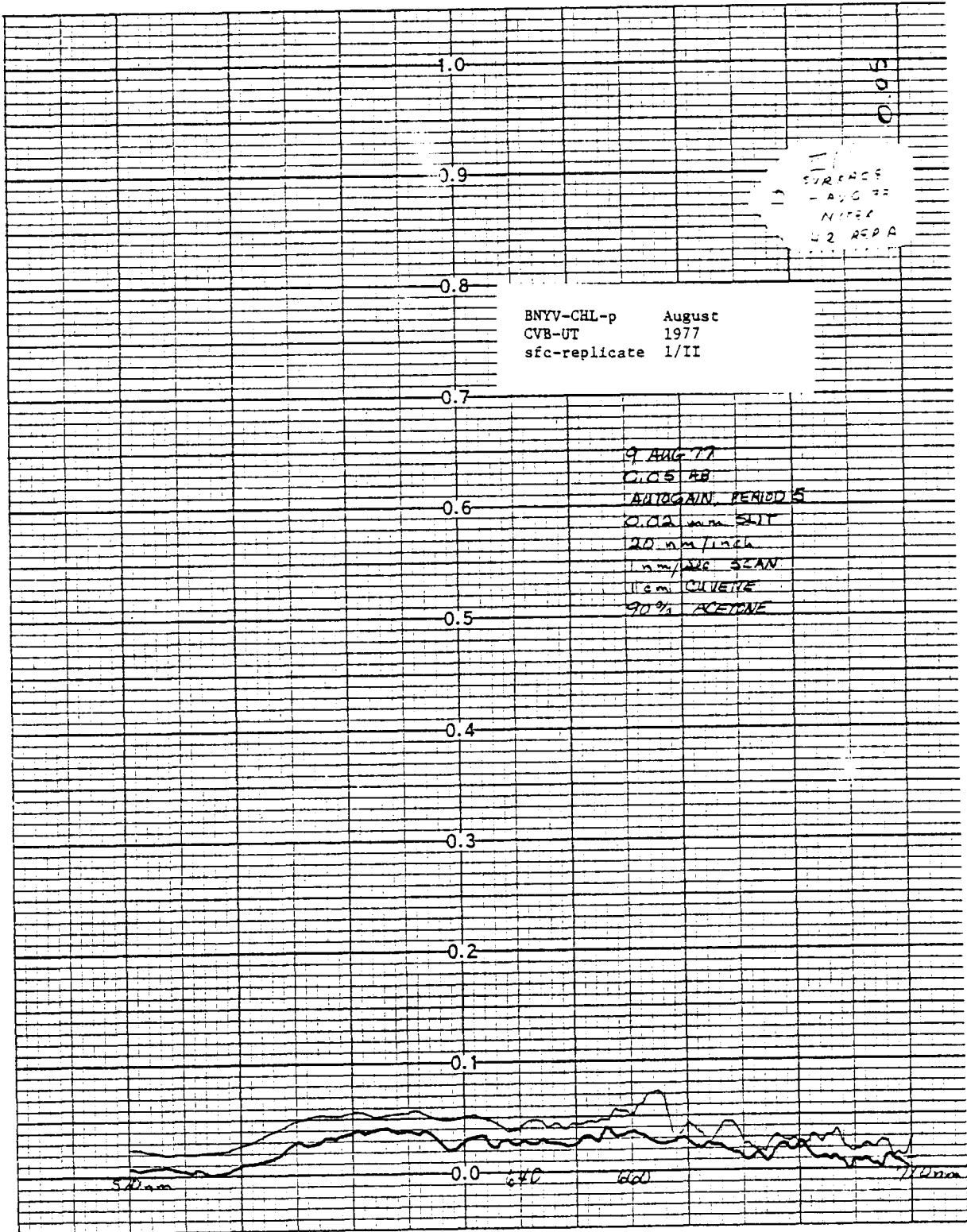


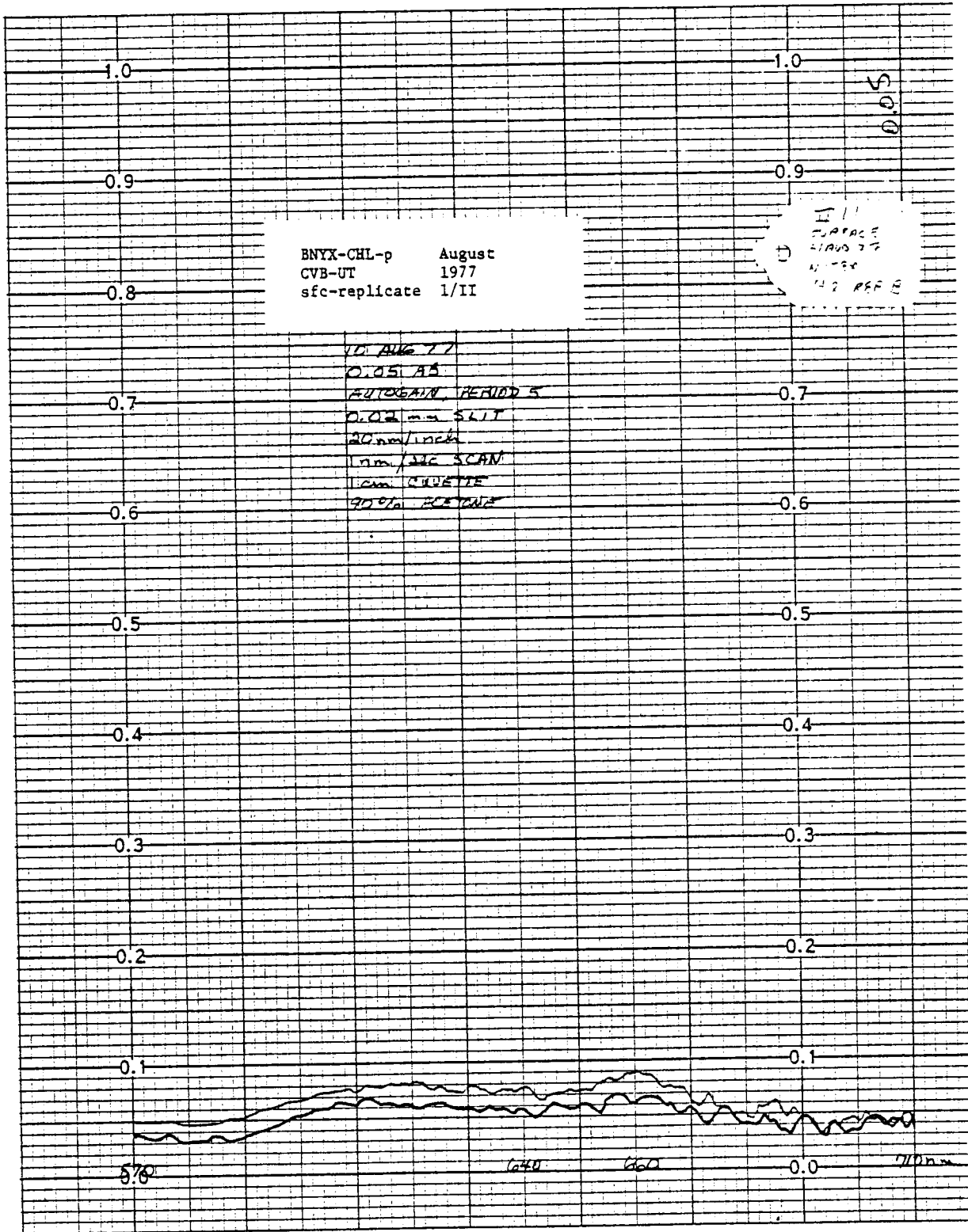


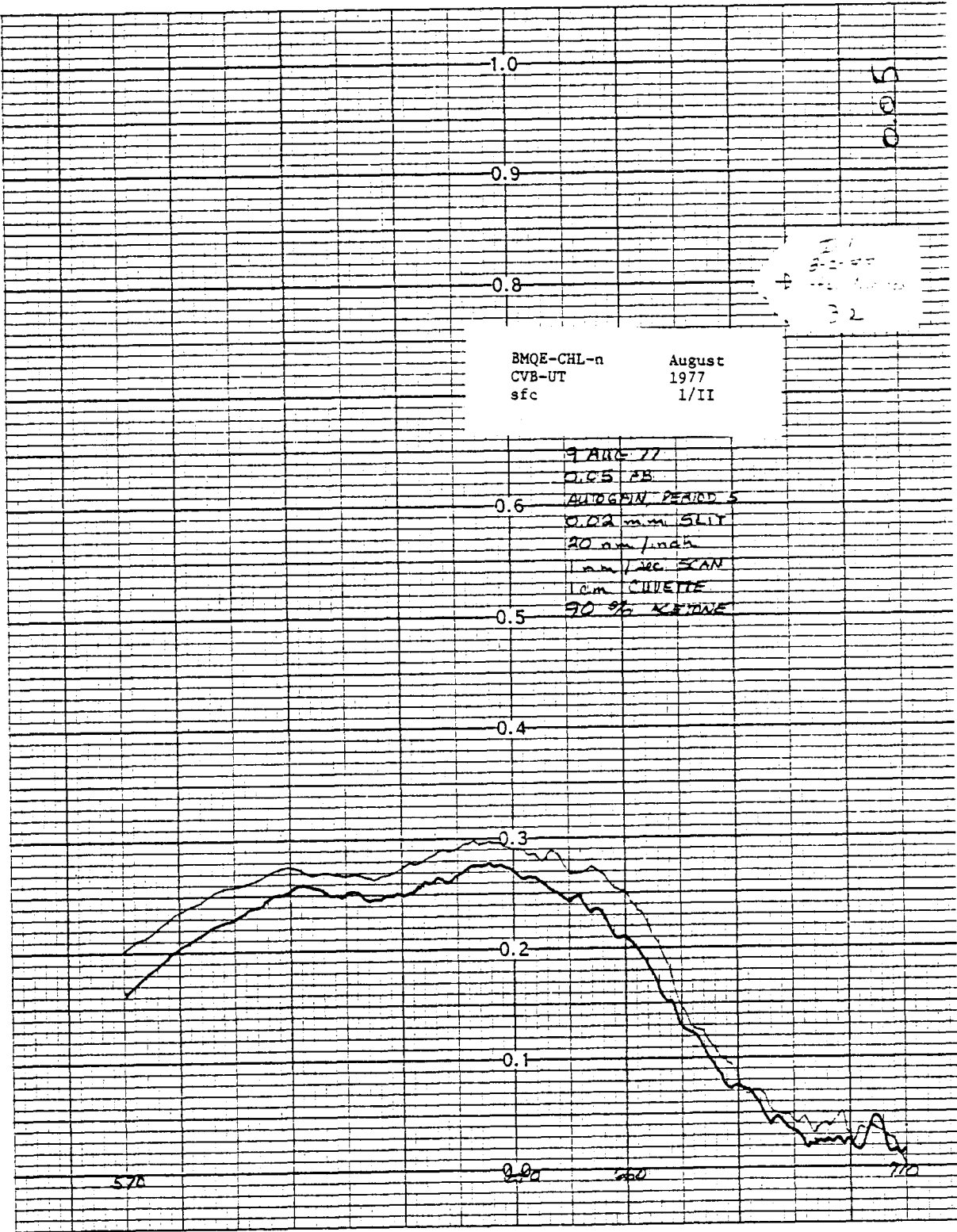




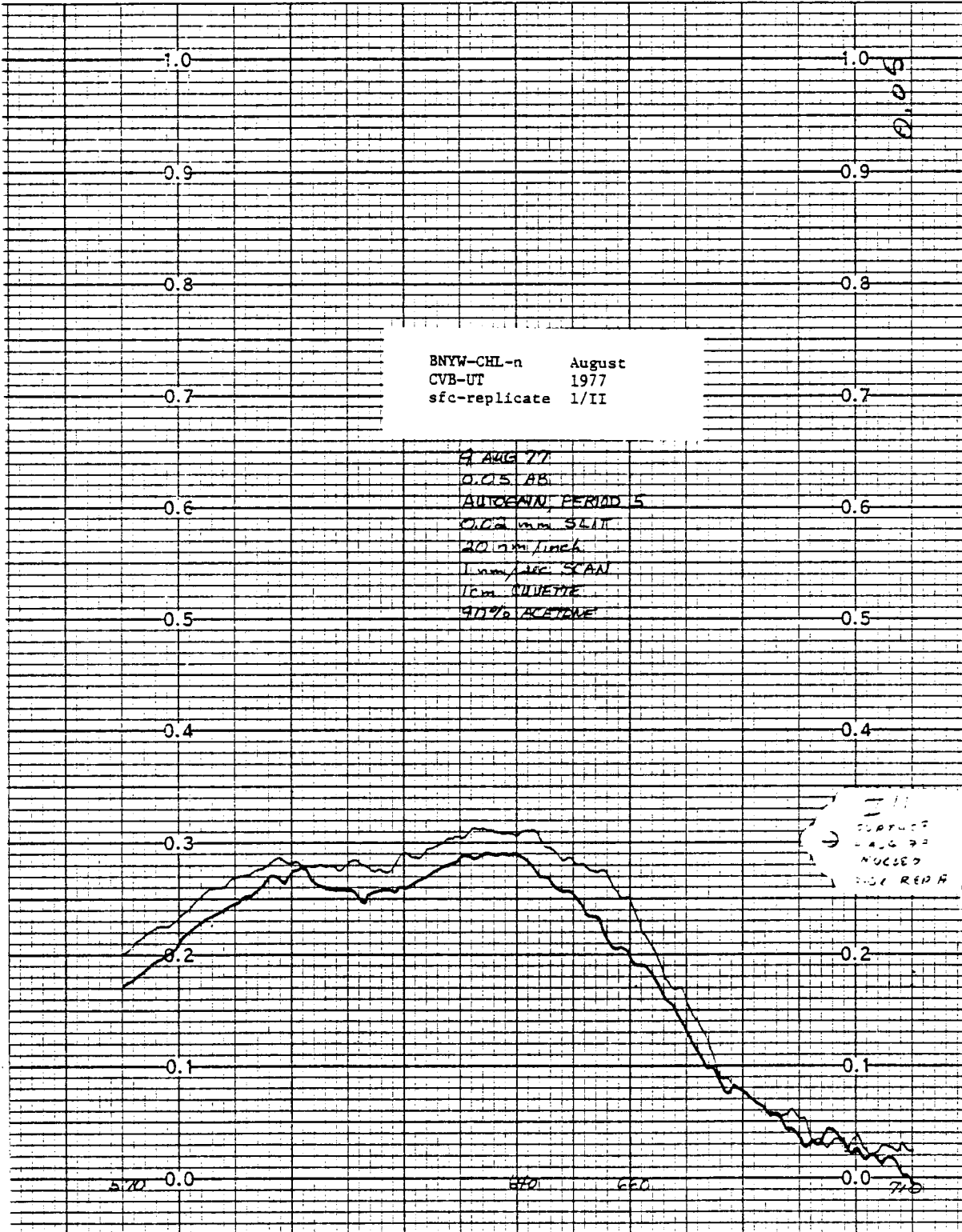


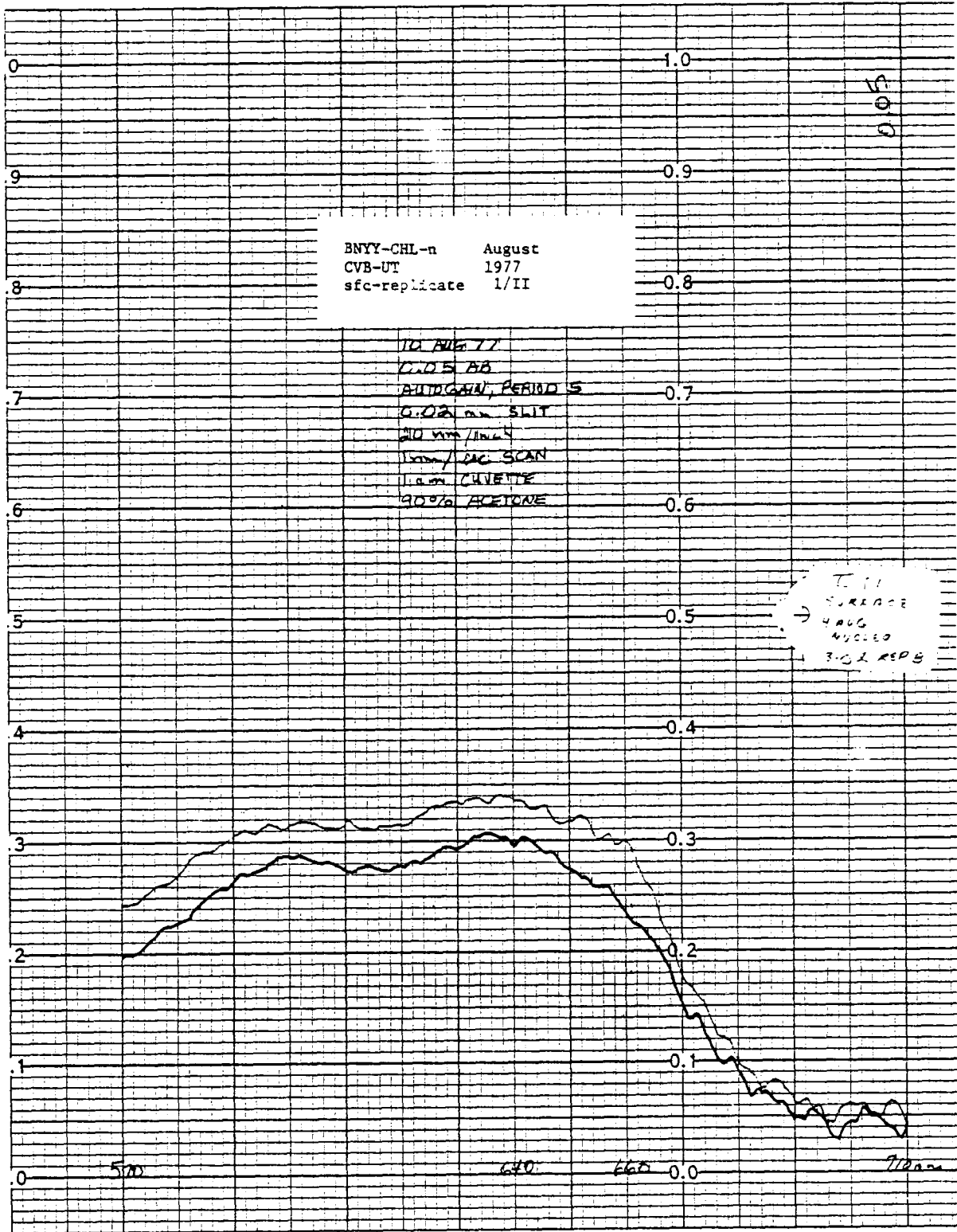


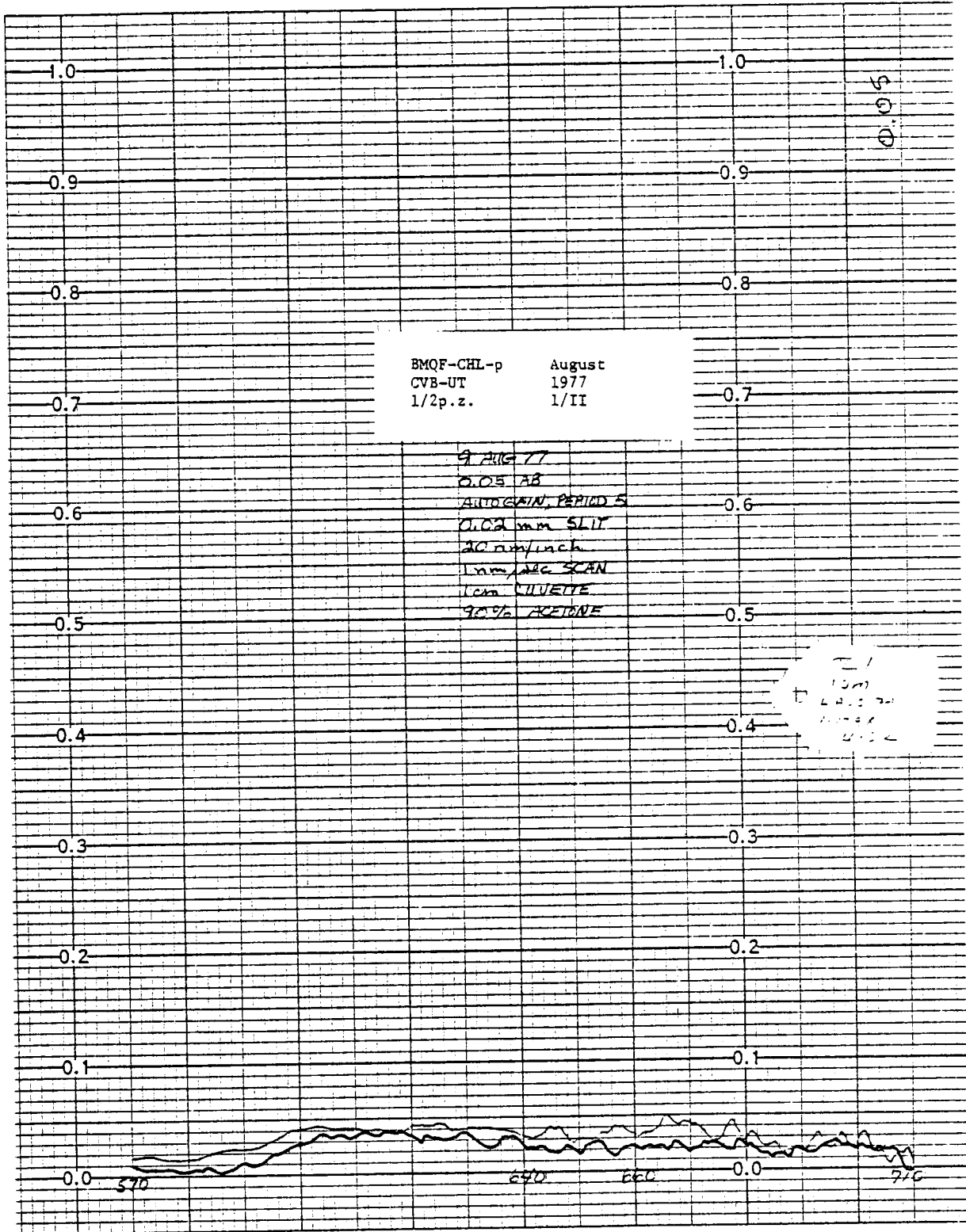


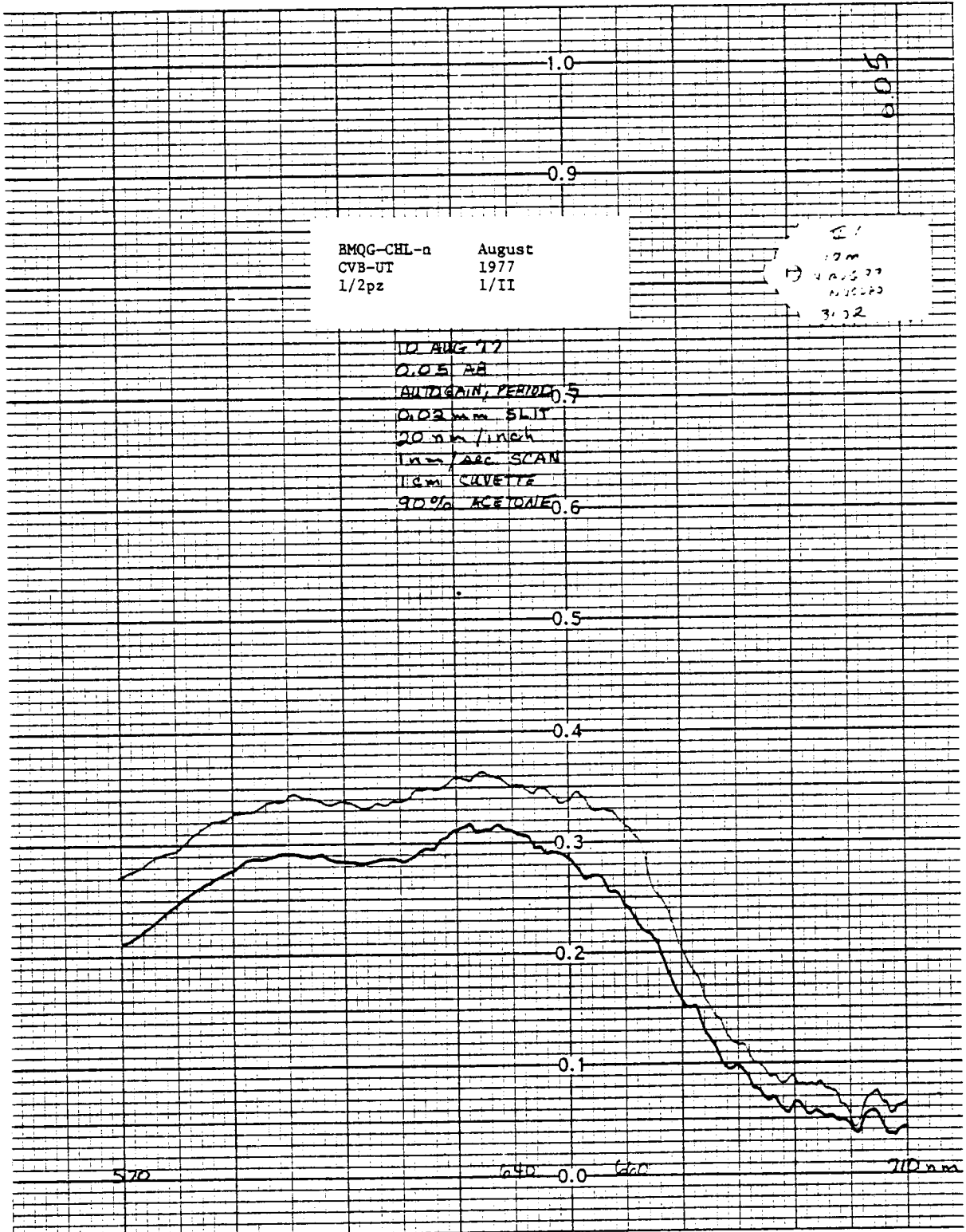


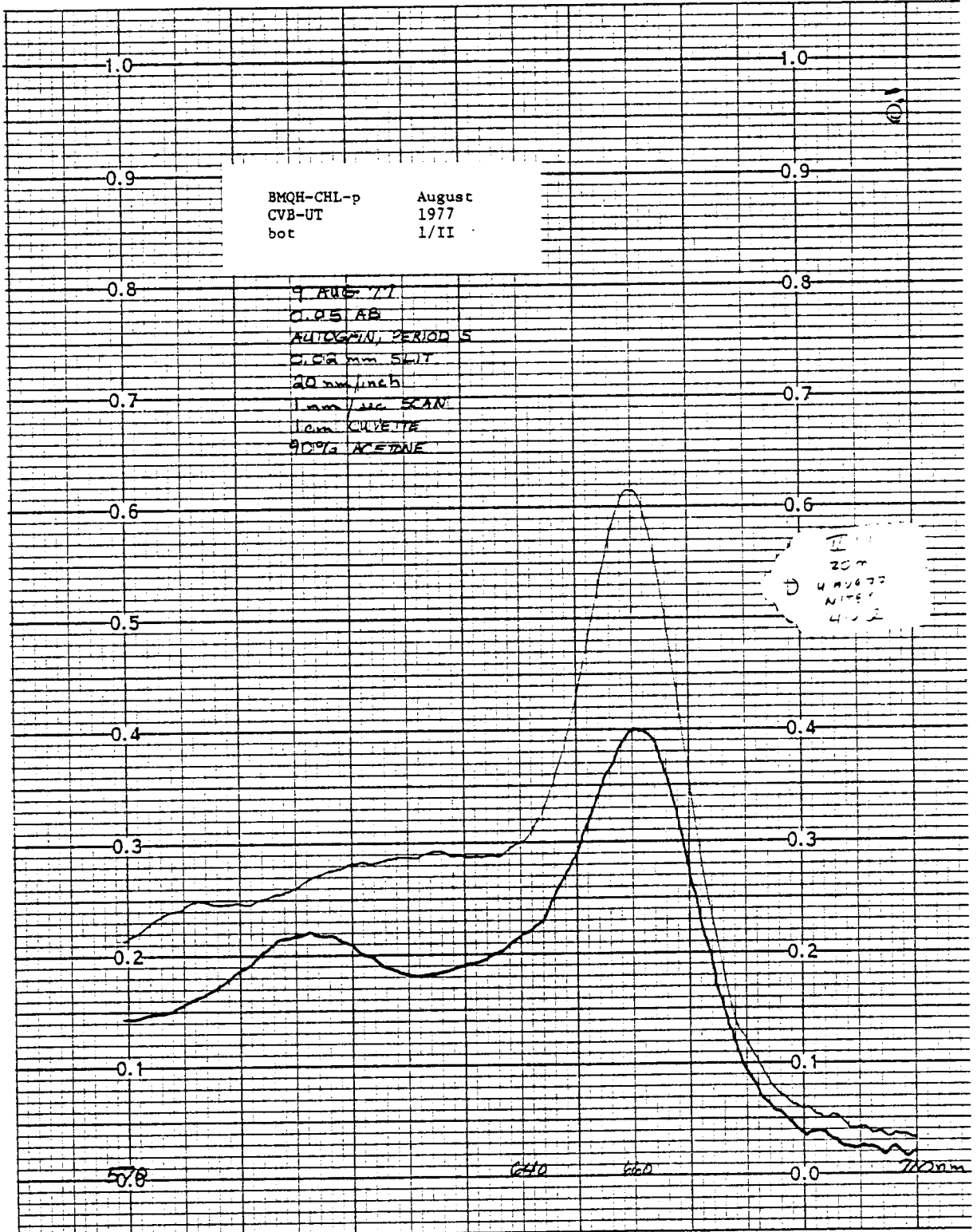


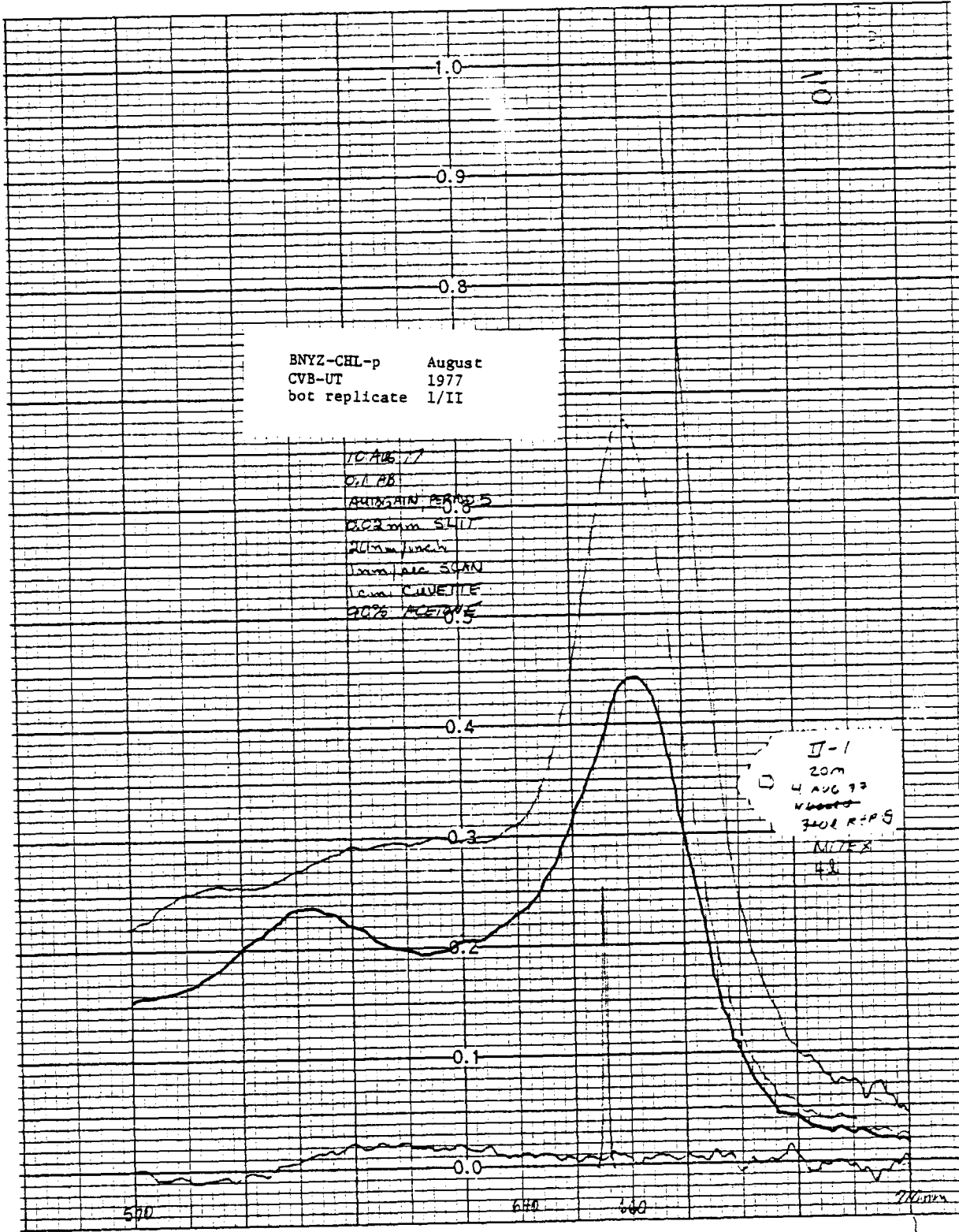


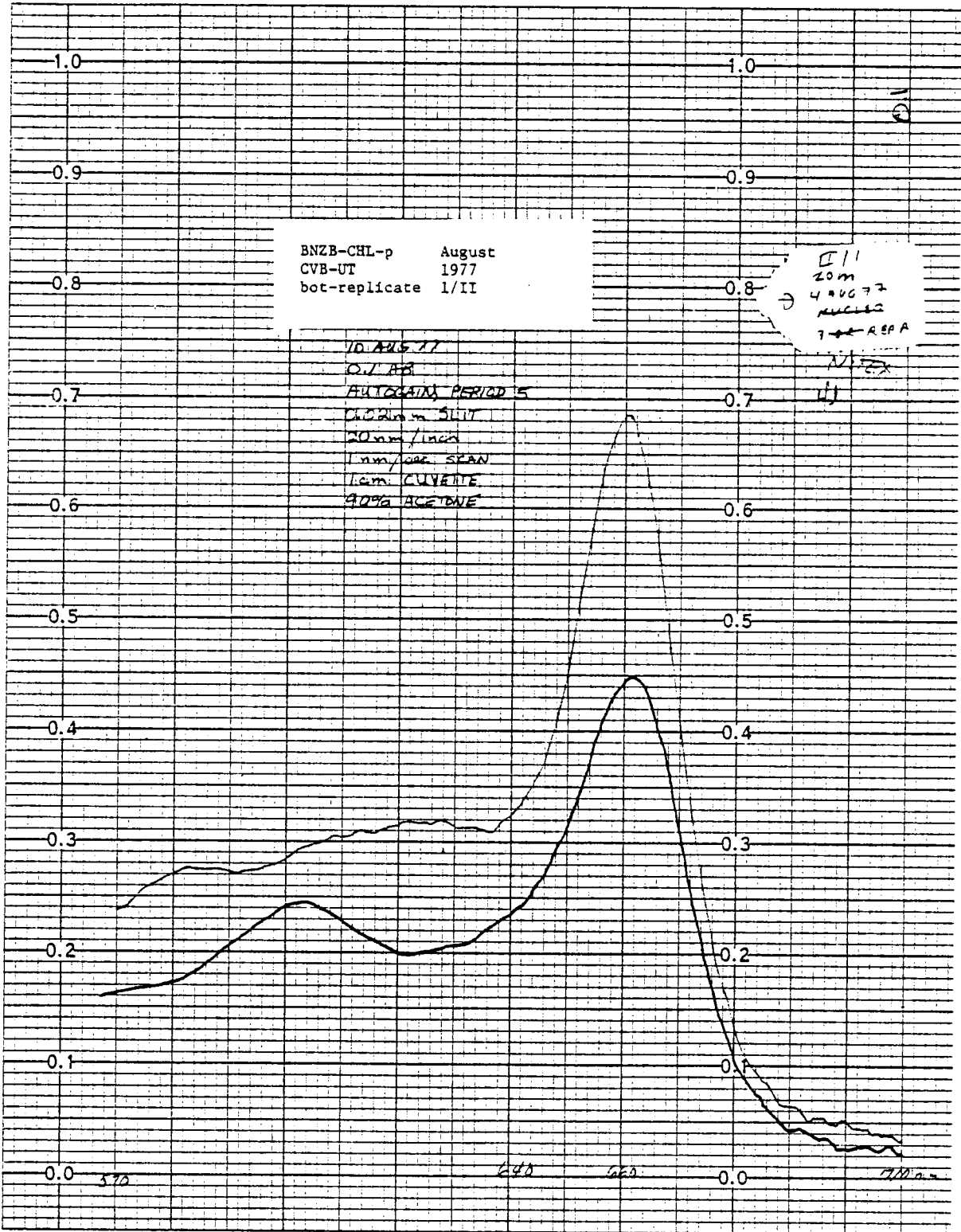


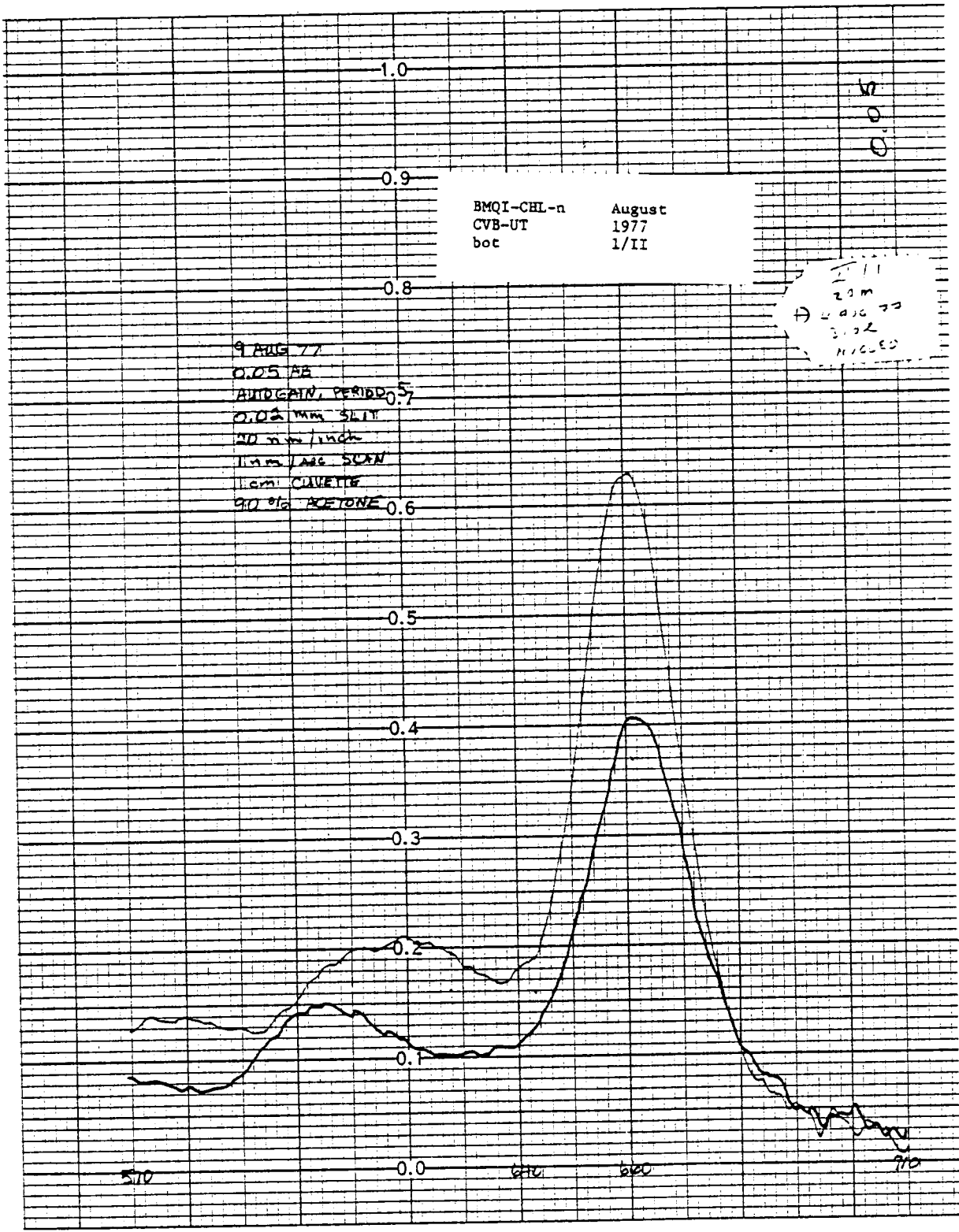




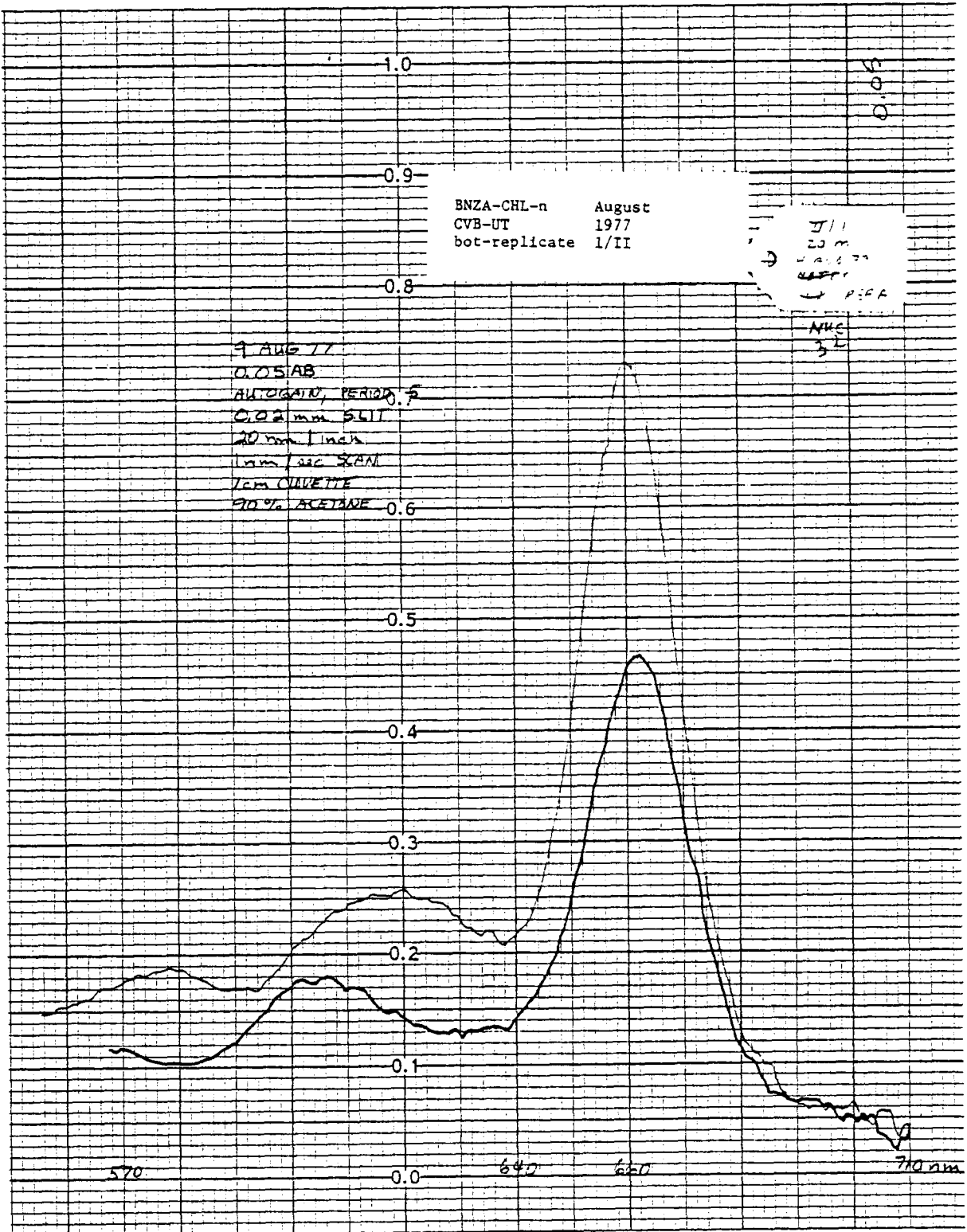


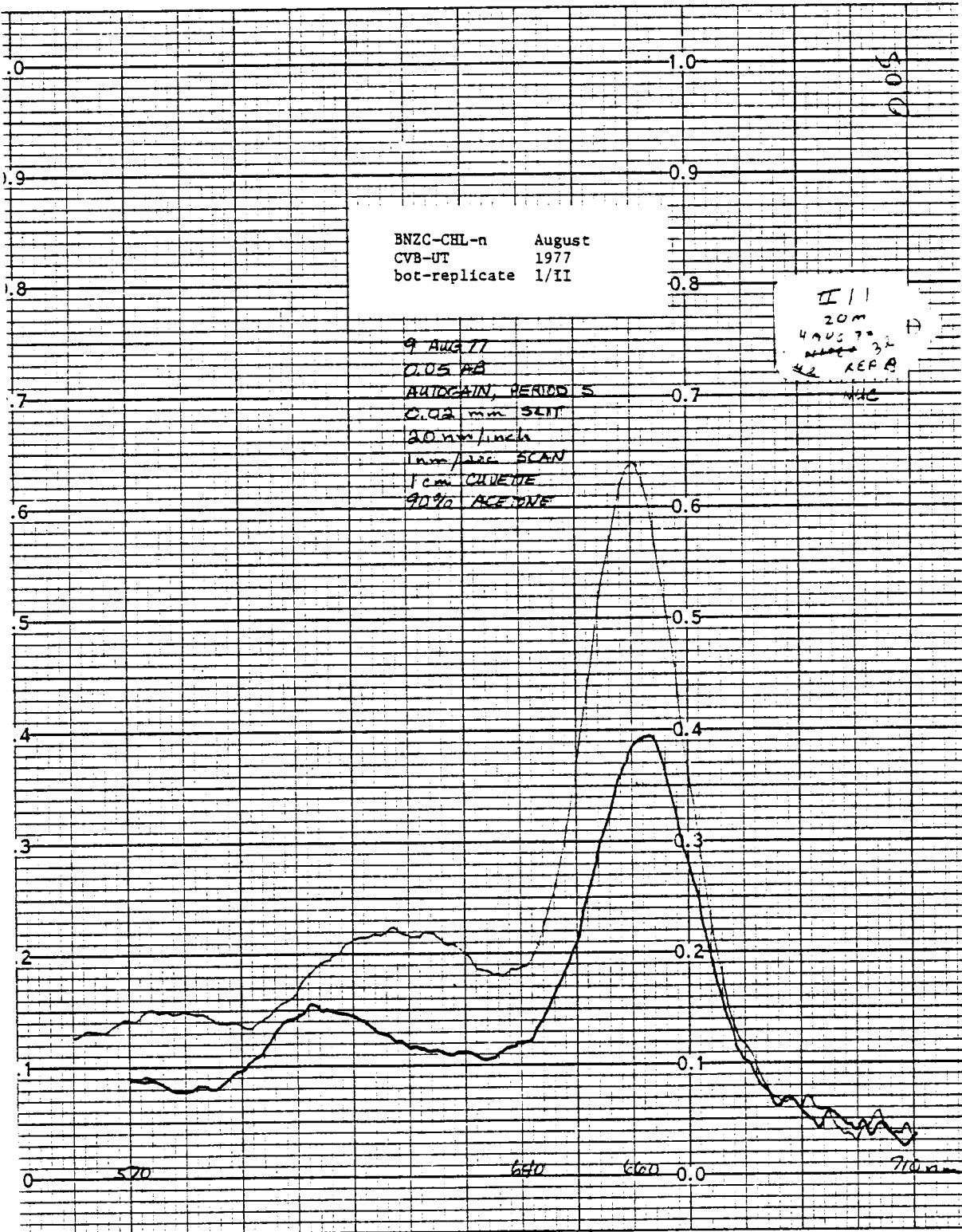


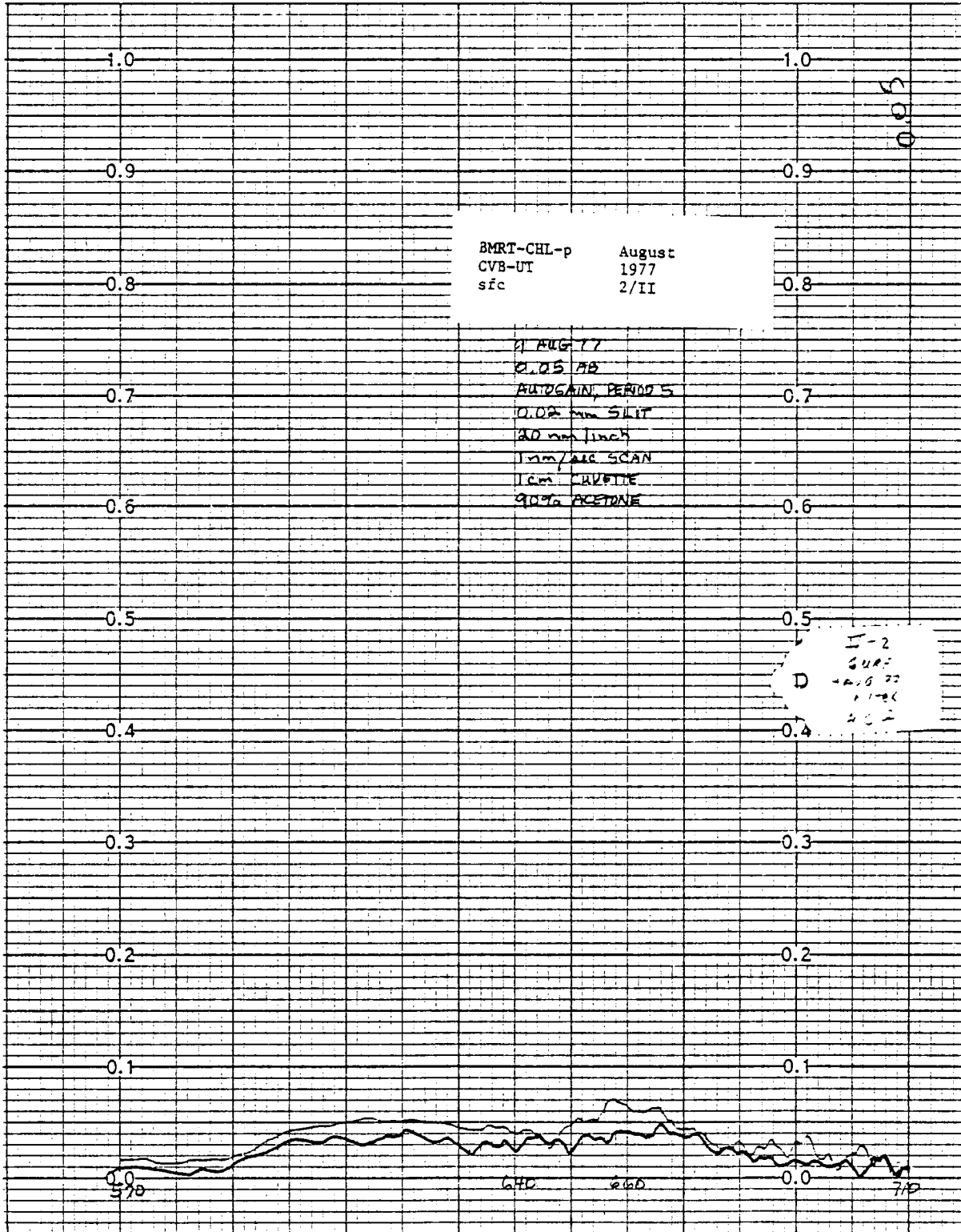


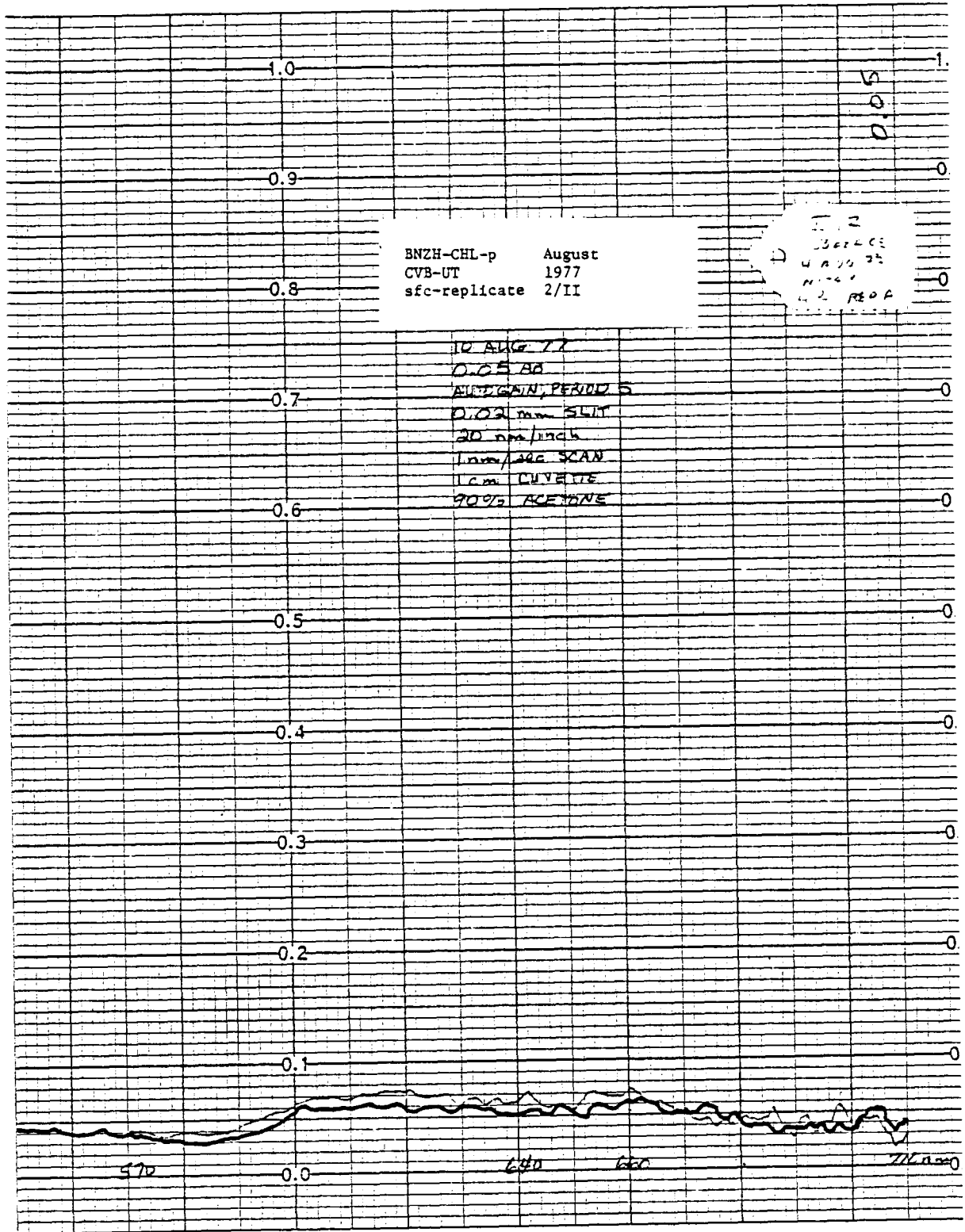


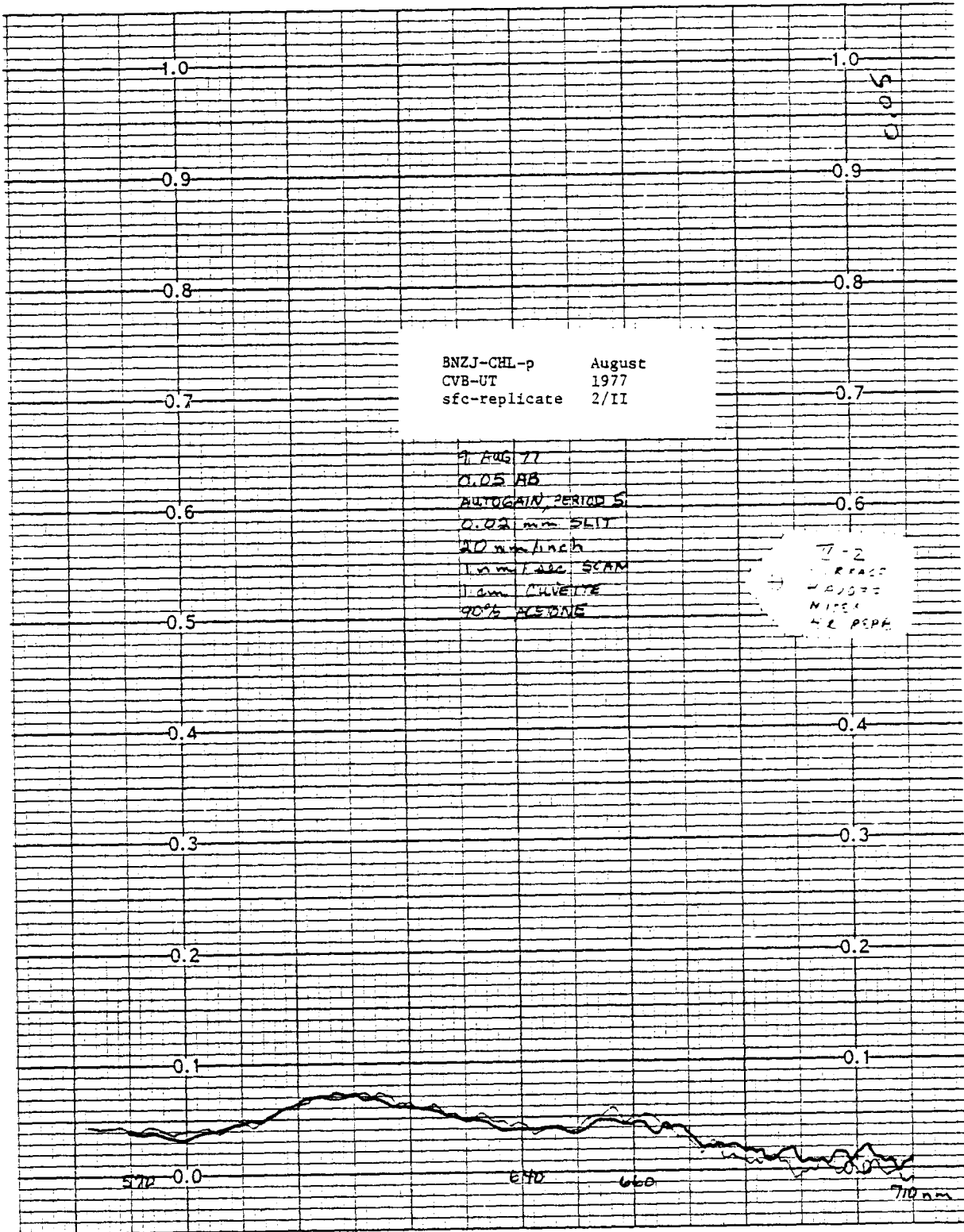


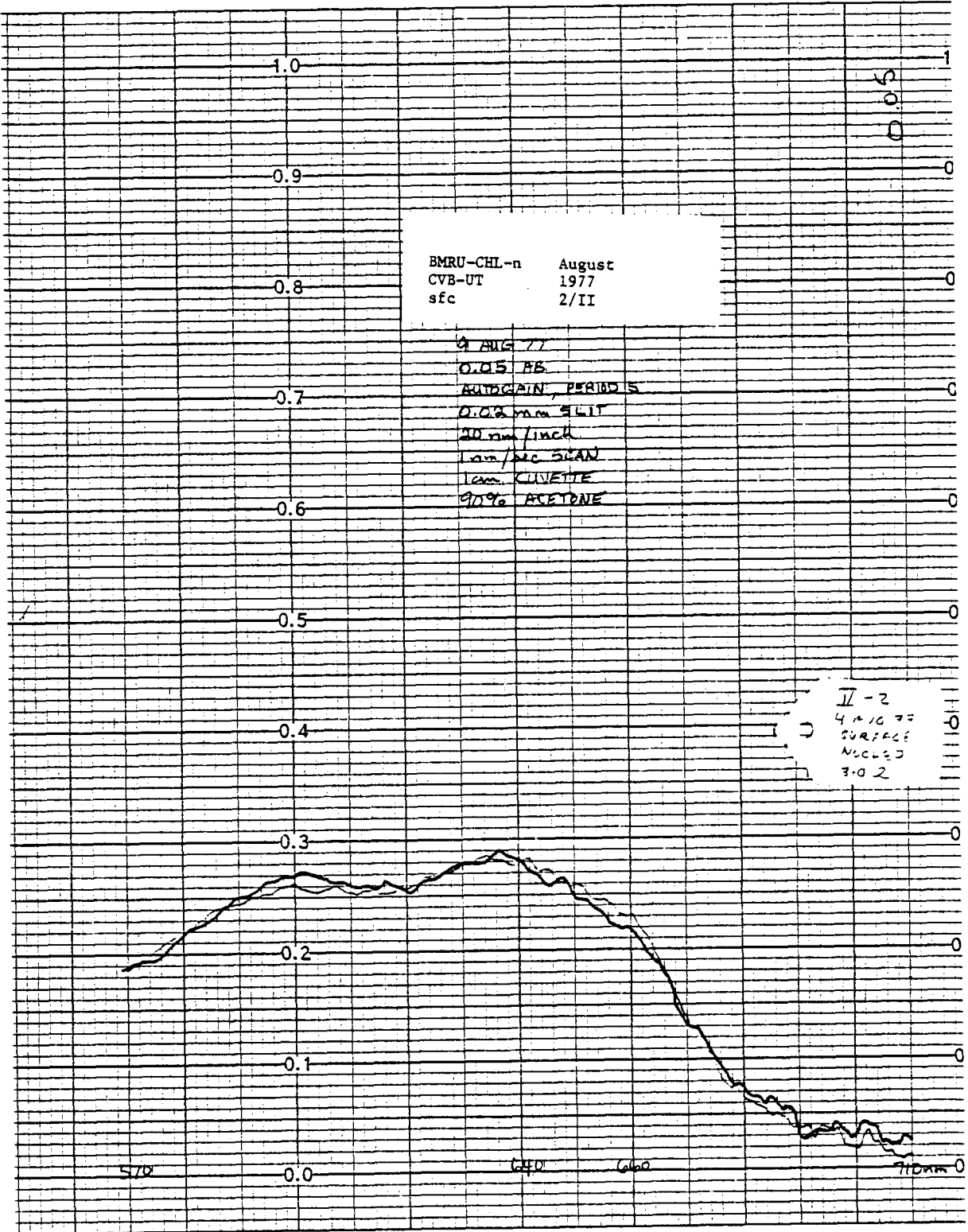


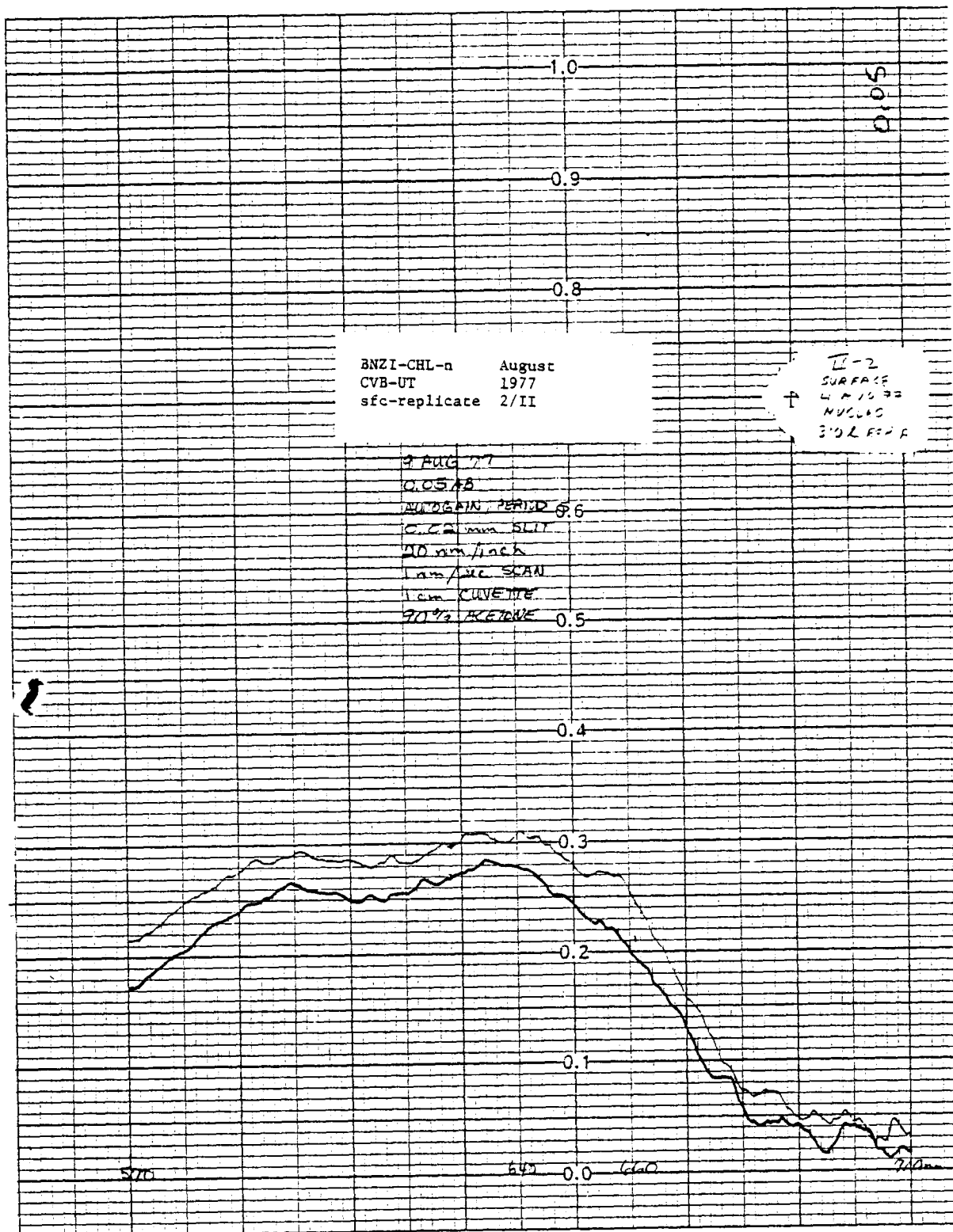


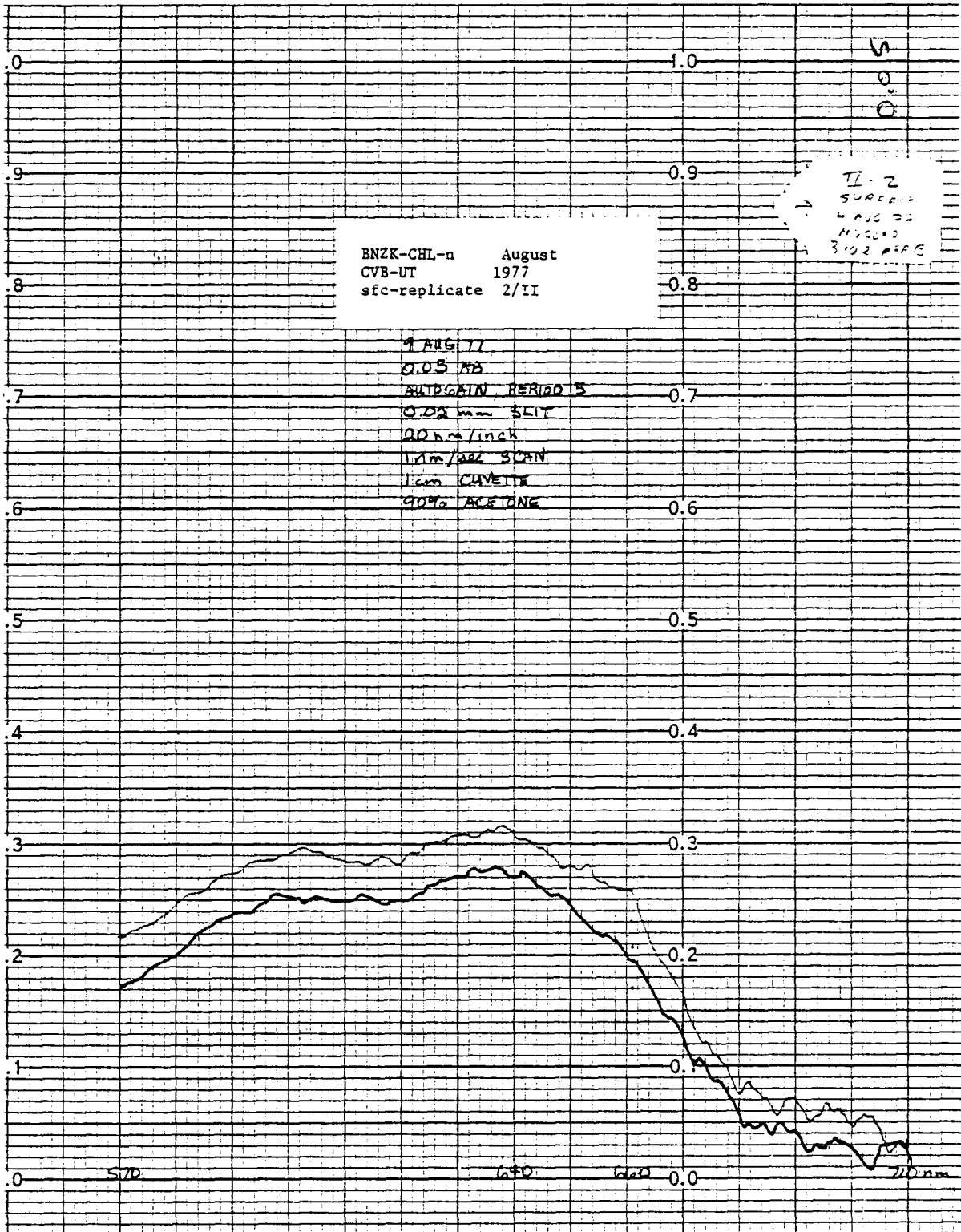




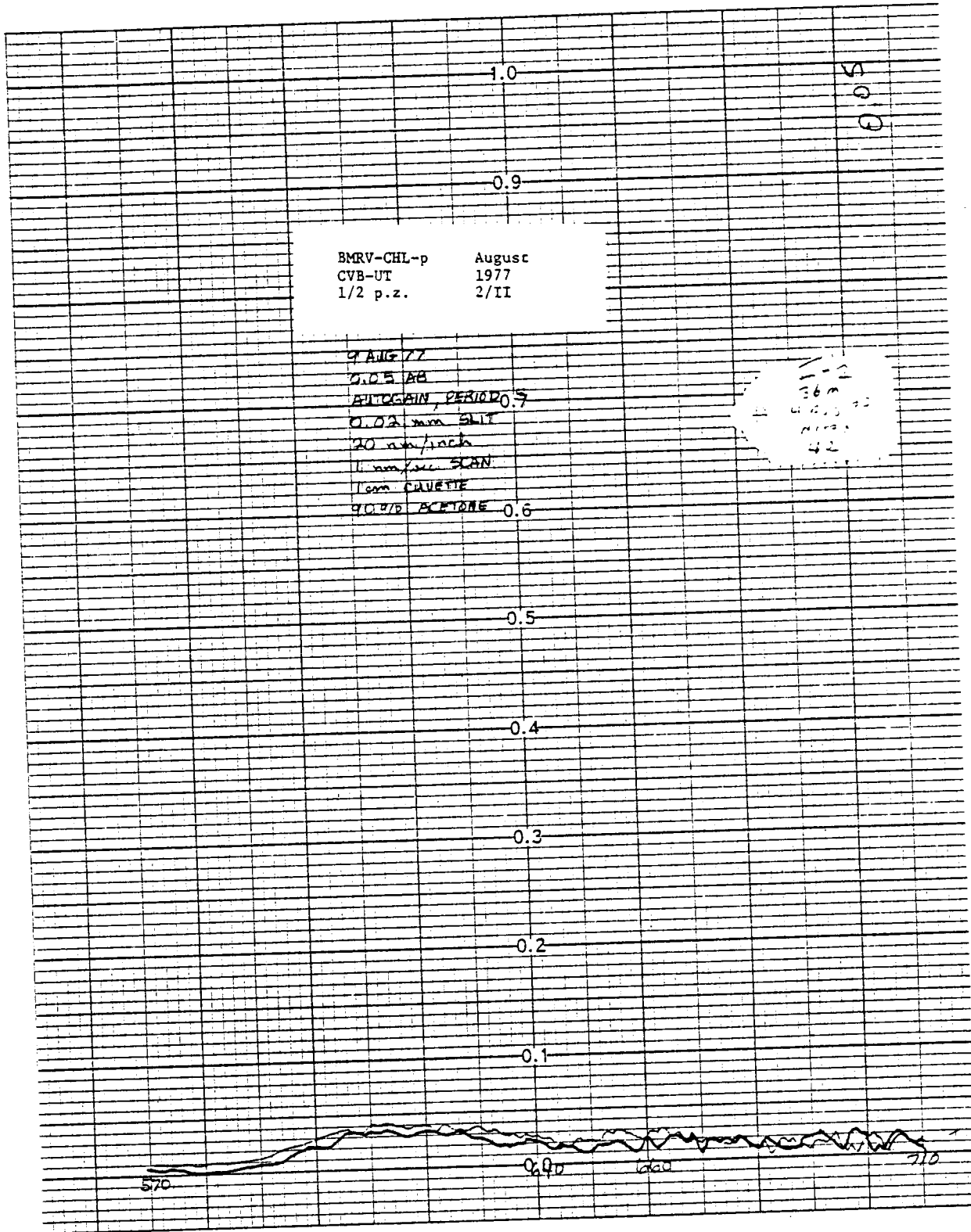












BMRV-CHL-p August  
CVB-UT 1977  
1/2 p.z. 2/II

9 AUG 77  
0.05 AB  
AUTOGAIN, PERIOD 0.7  
0.02 mm SLIT  
20 mm/patch  
1 mm/sec SCAN  
1 cm CAUETTE  
90°/D BCFONE 0.6

36 m  
42  
42

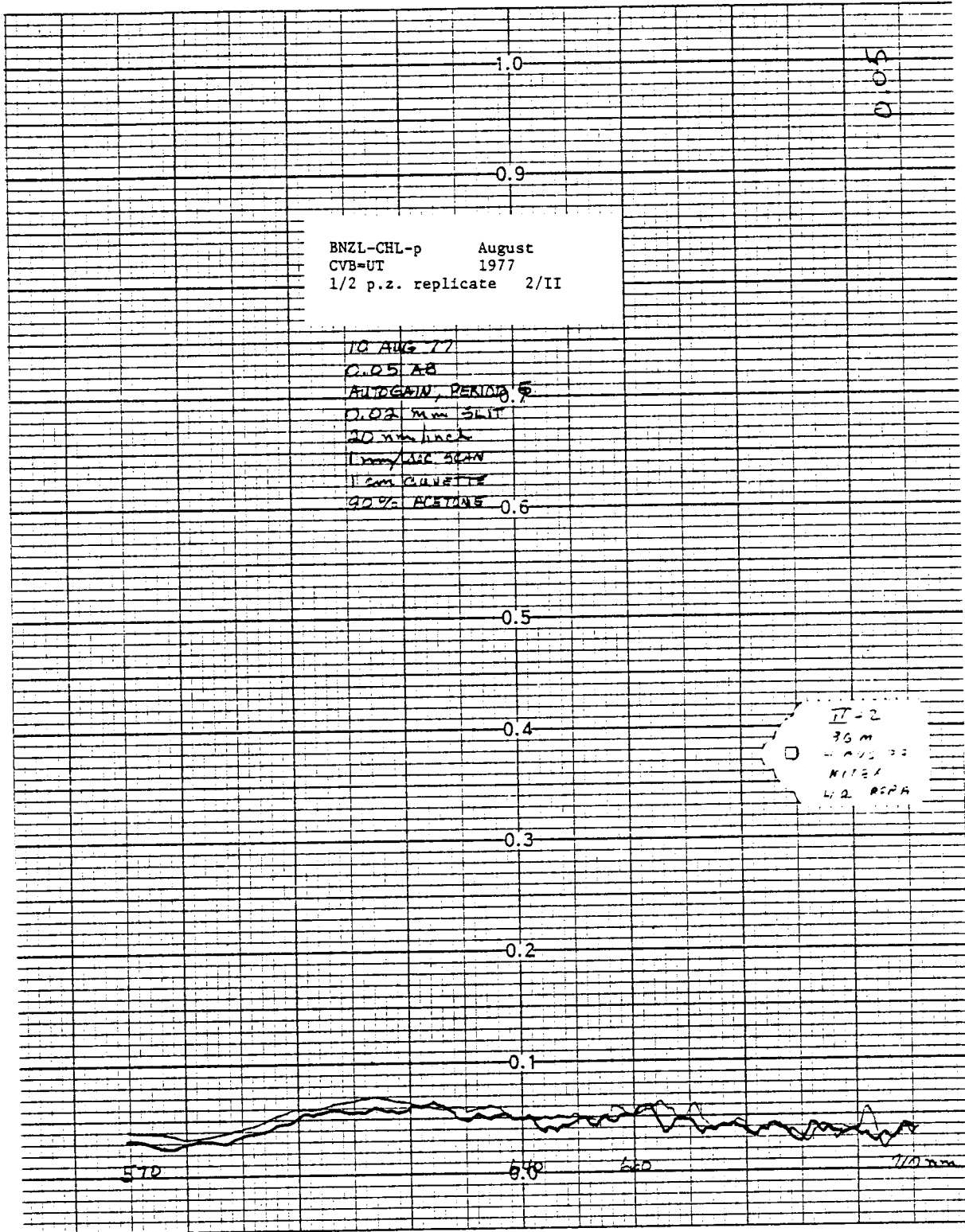
500

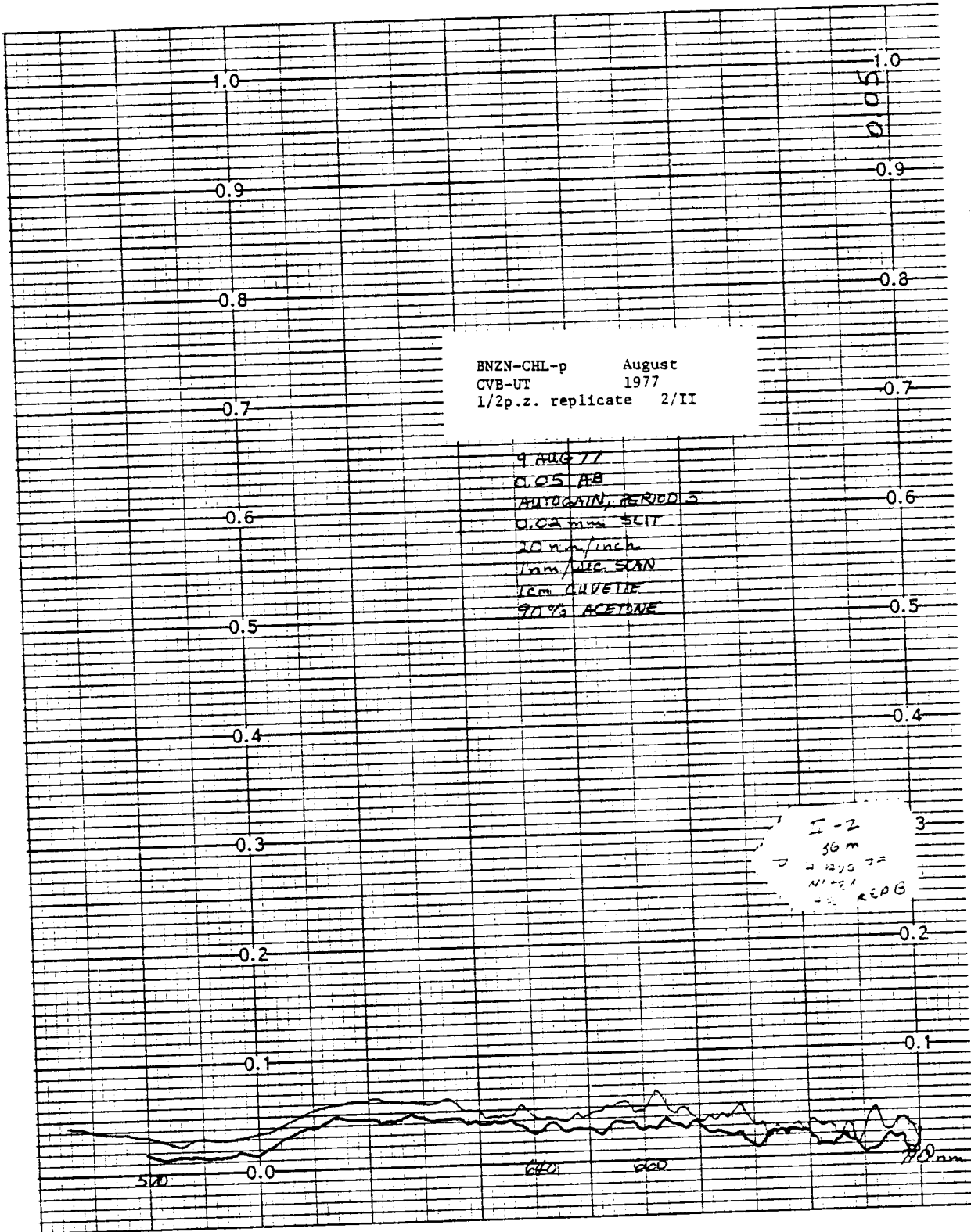
570

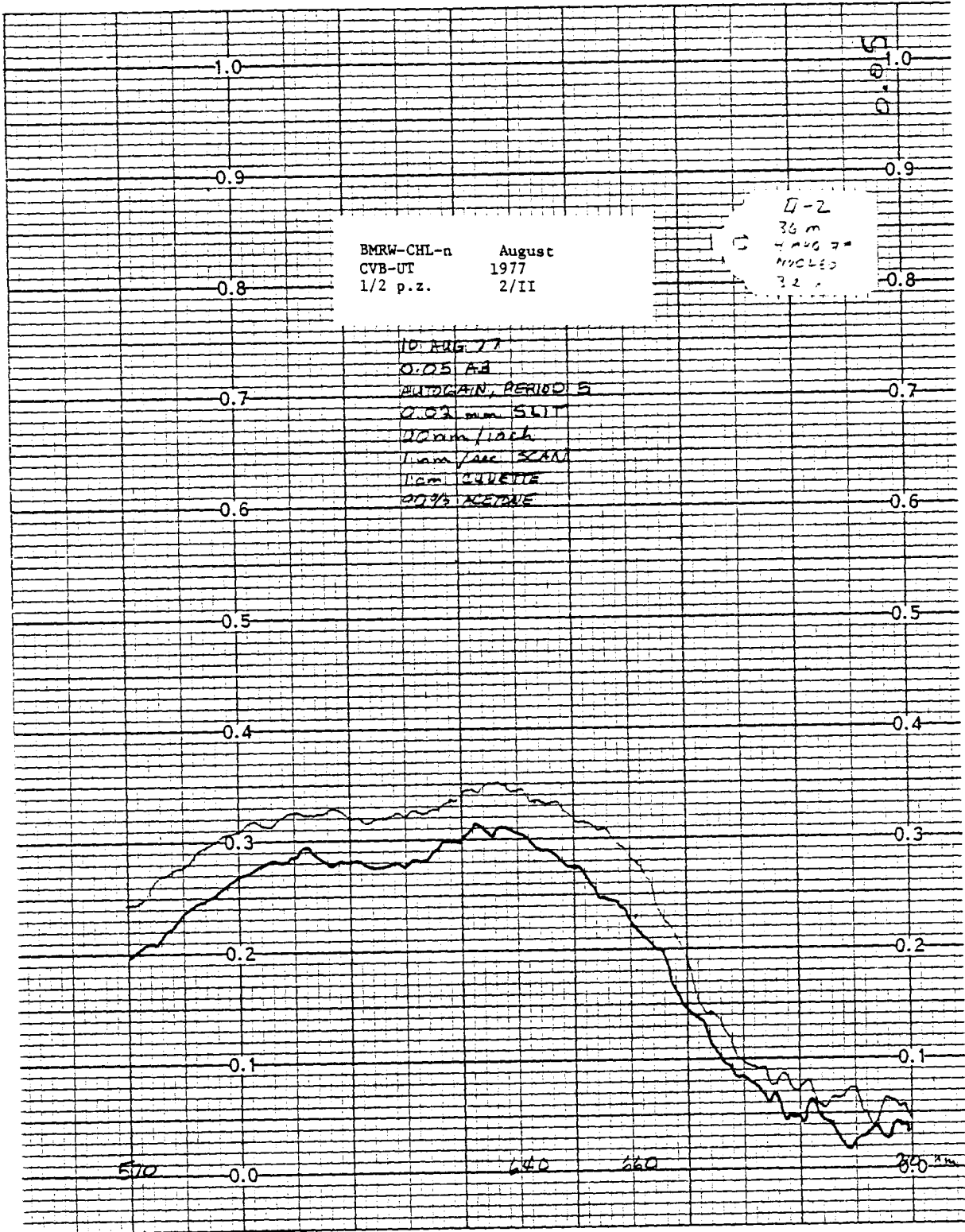
690

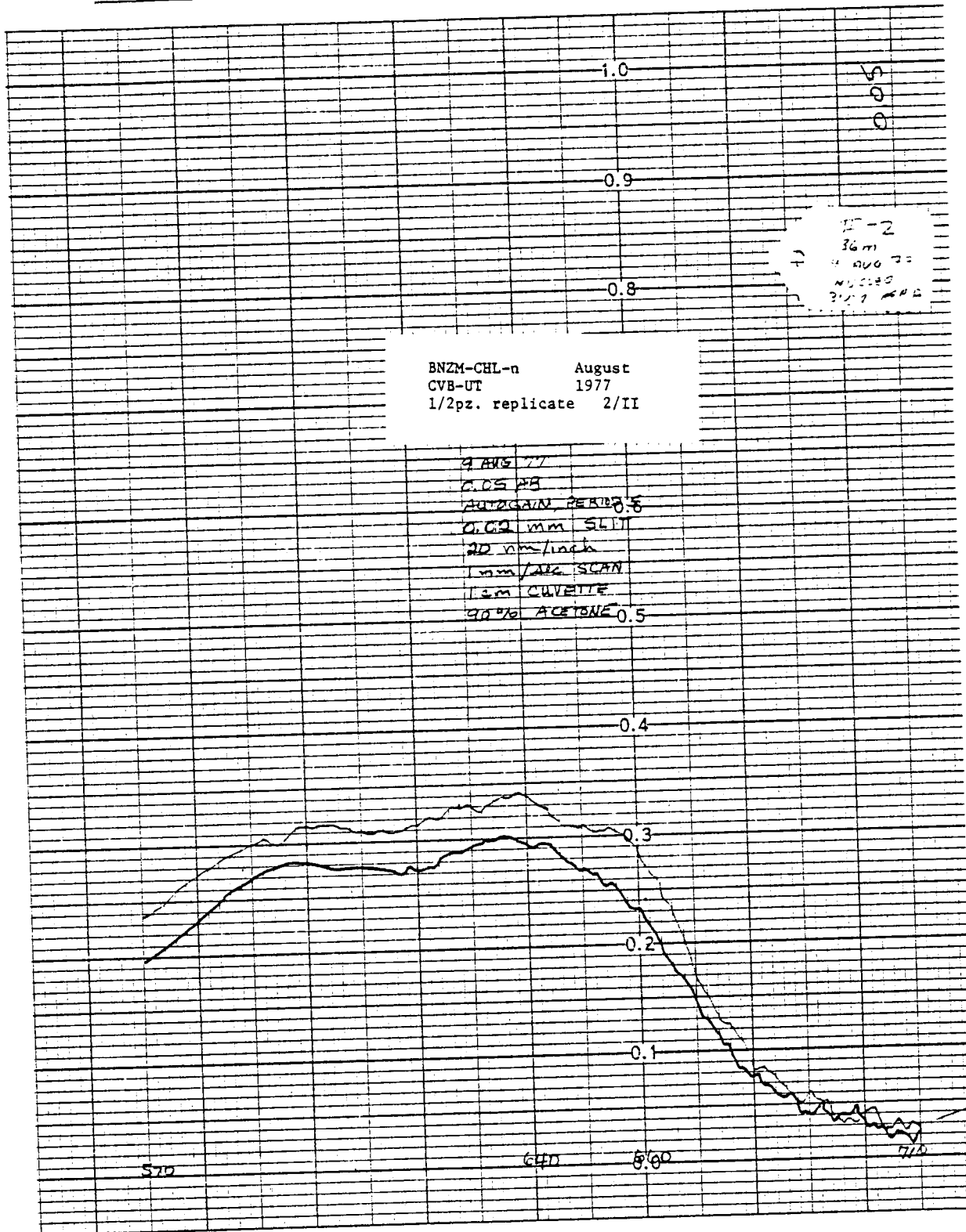
690

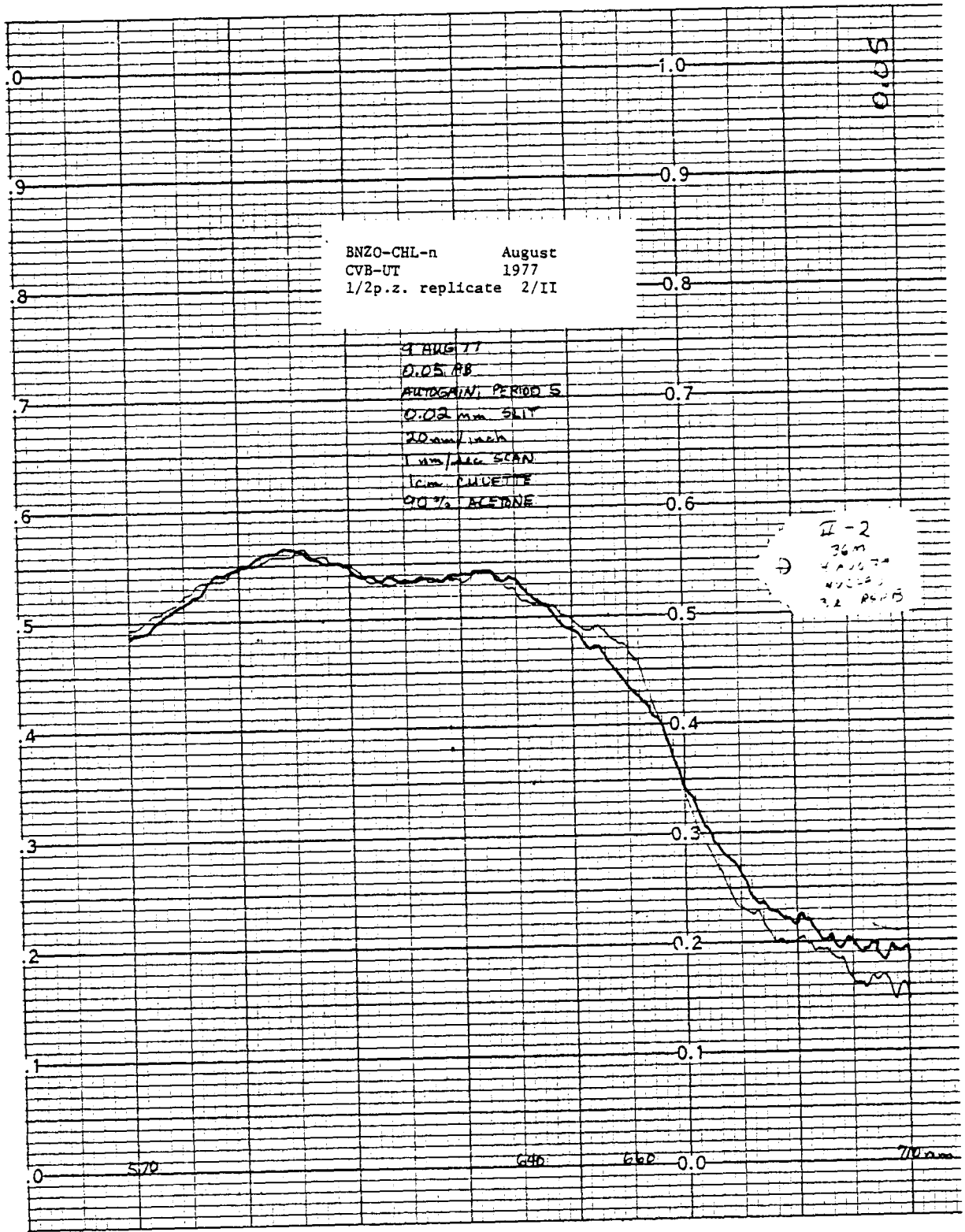
710

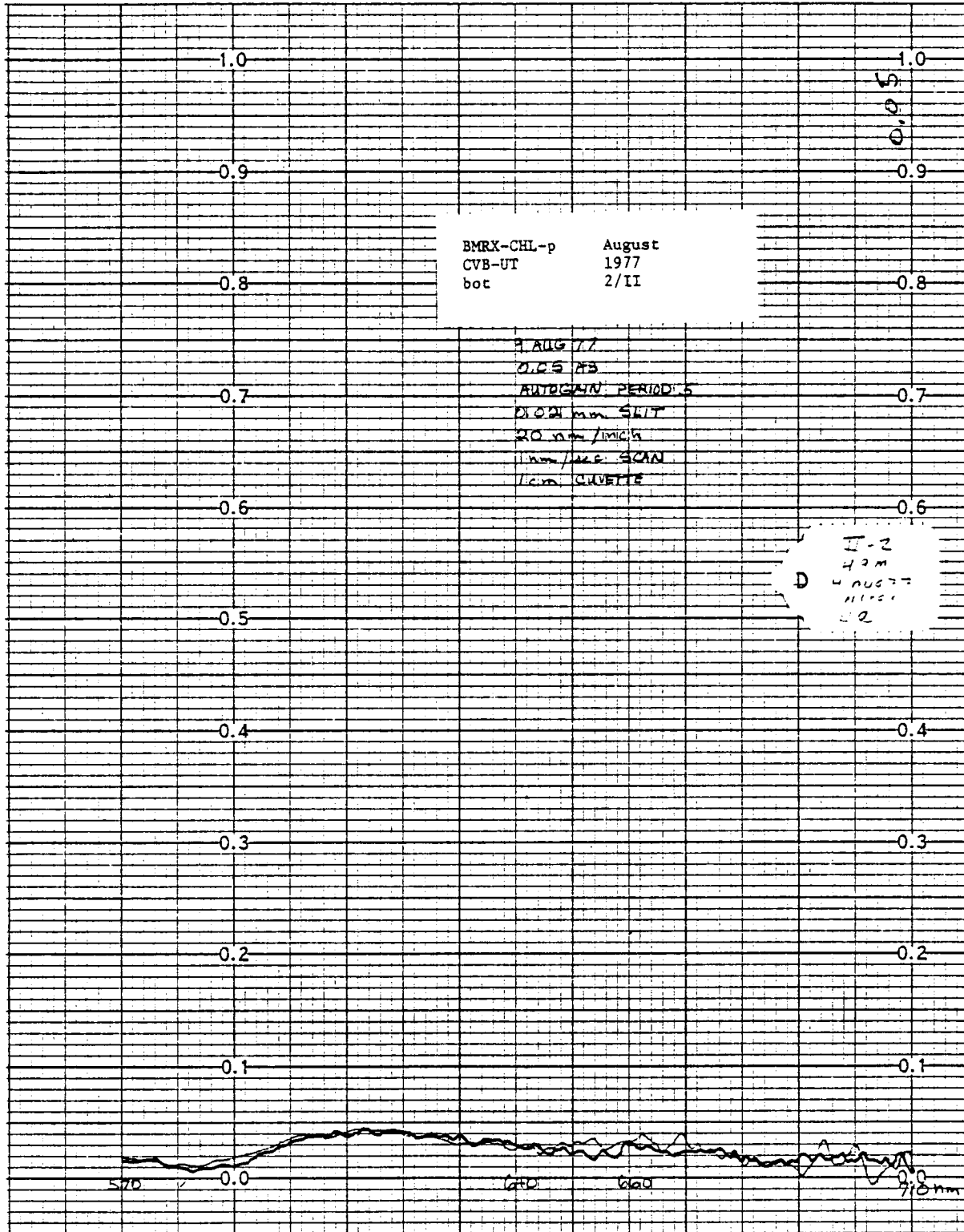


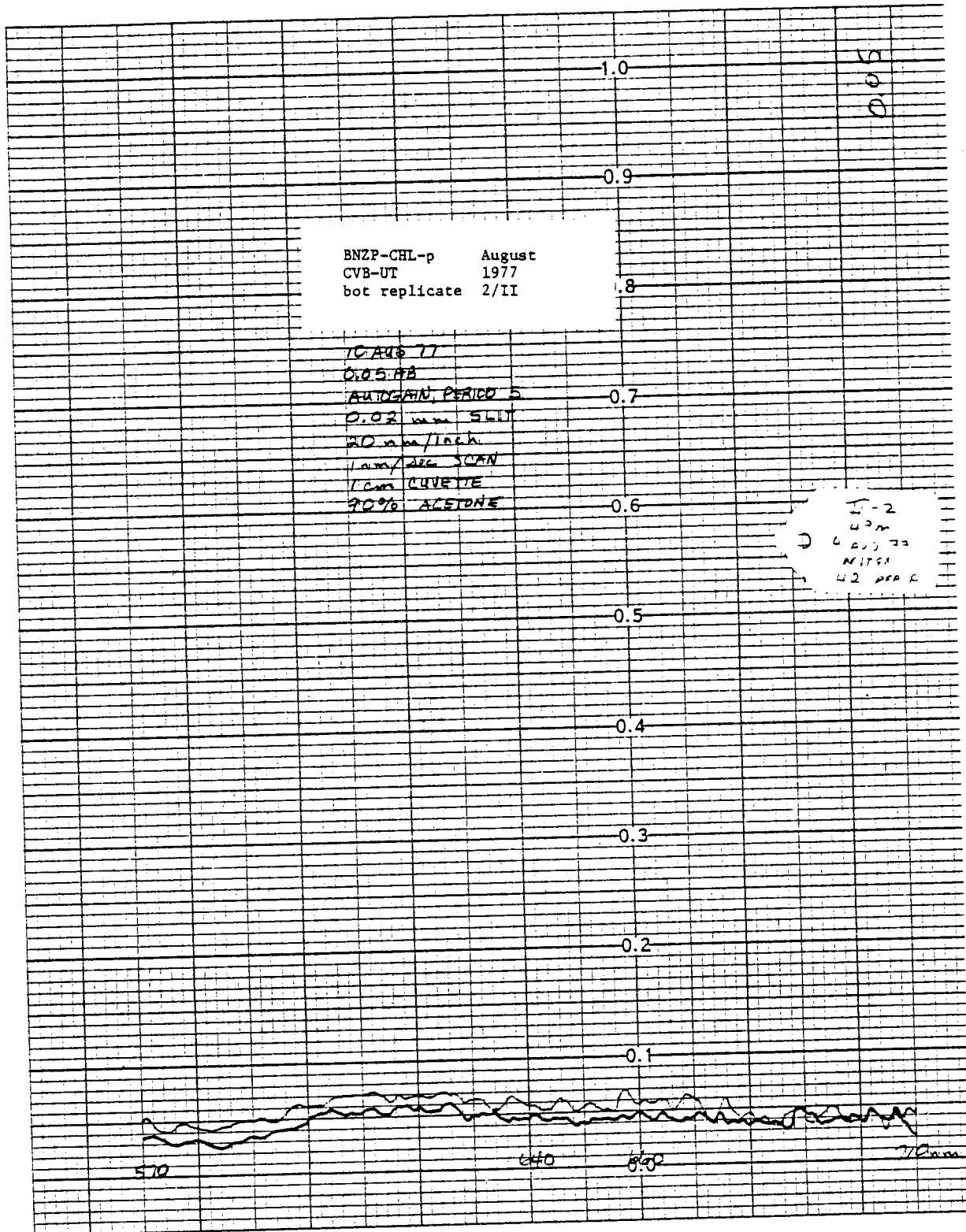




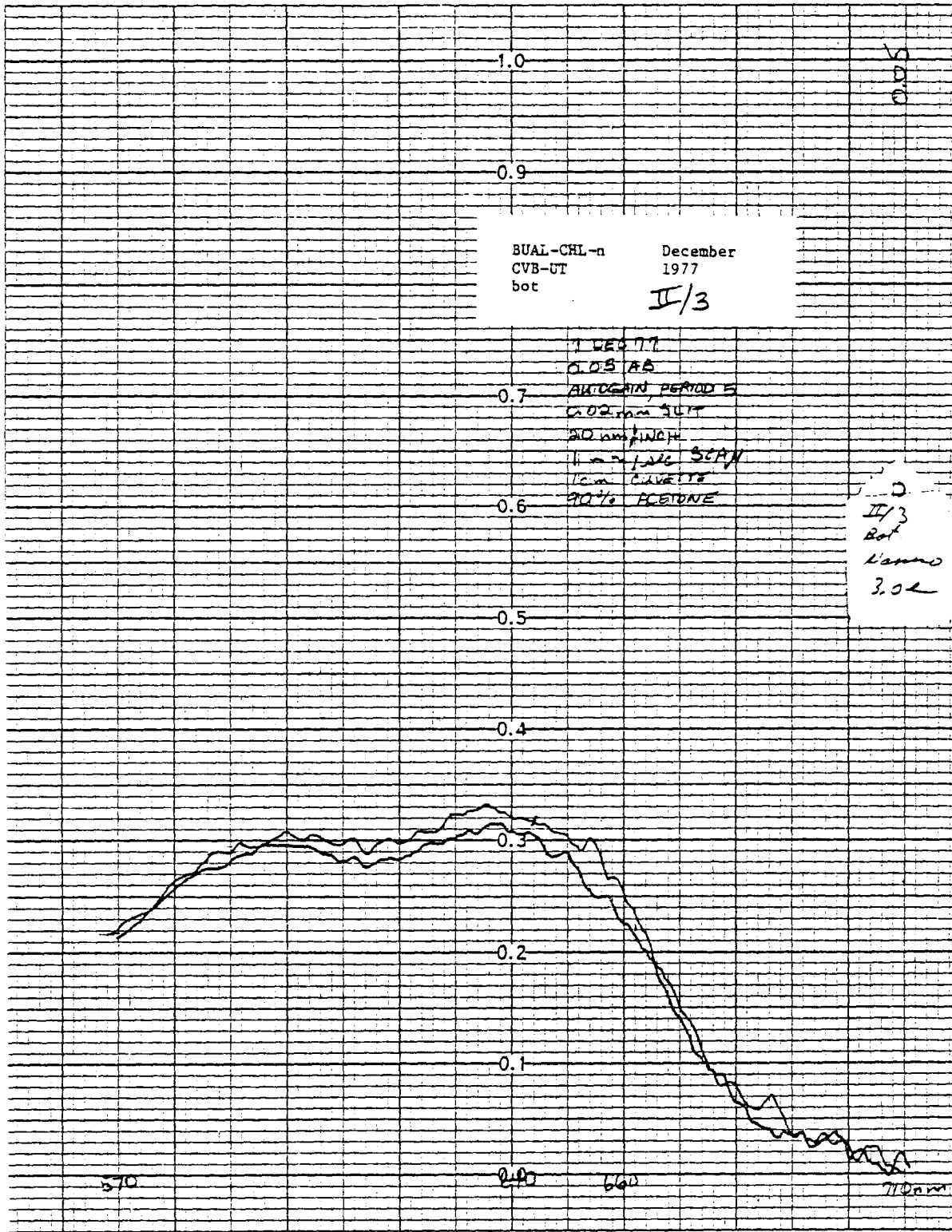












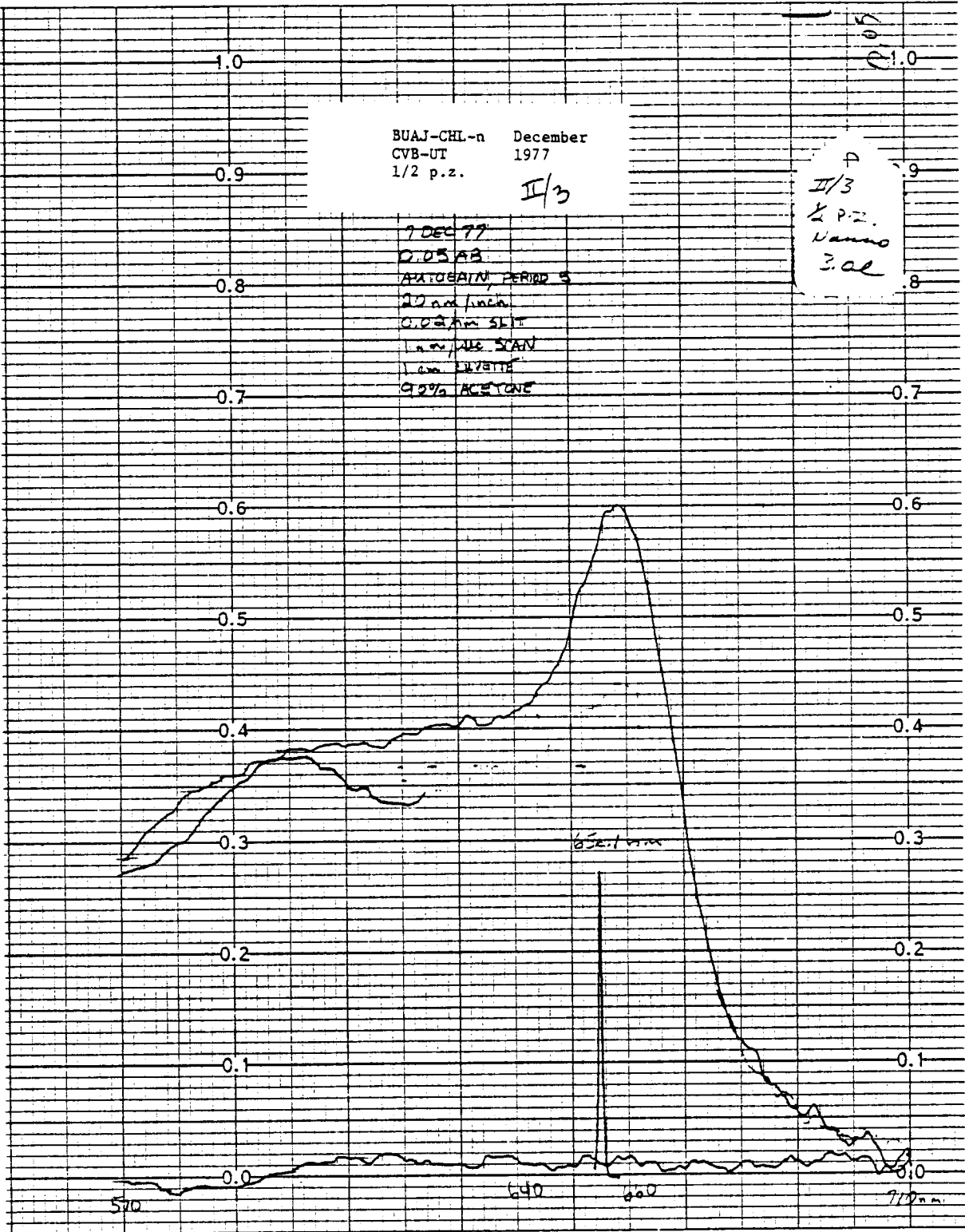


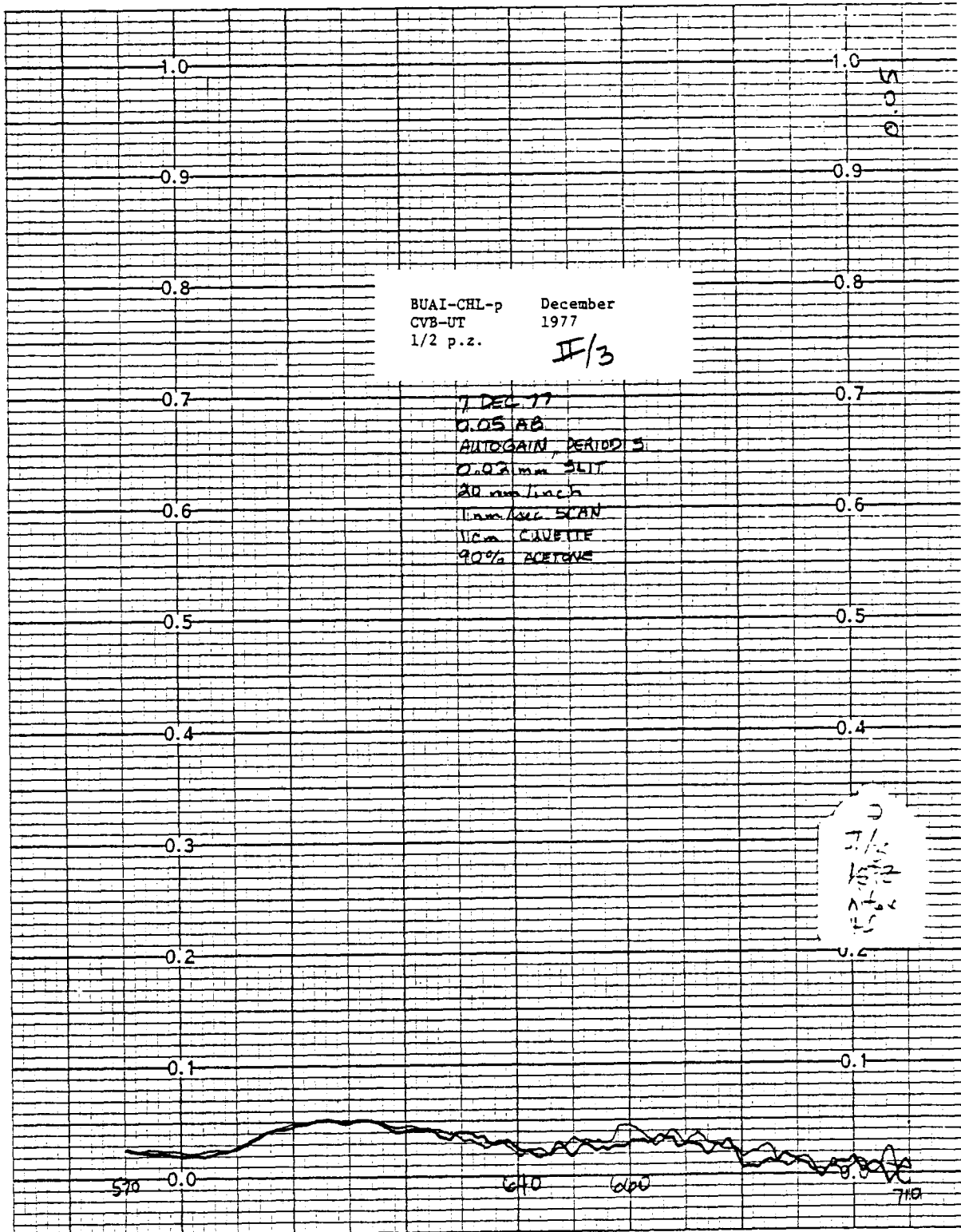
BUAJ-CHL-n December  
CVB-UT 1977  
1/2 p.2.

II/3

7 DEC 77  
0.05 AB  
ATOCBAIN, PERIOD 5  
20 nm / inch  
0.02 nm SLIT  
1 nm / sec SCAN  
1 cm CELLETTE  
92% ACETONE

A  
II/3  
1/2 p.2.  
Nanno  
3.02



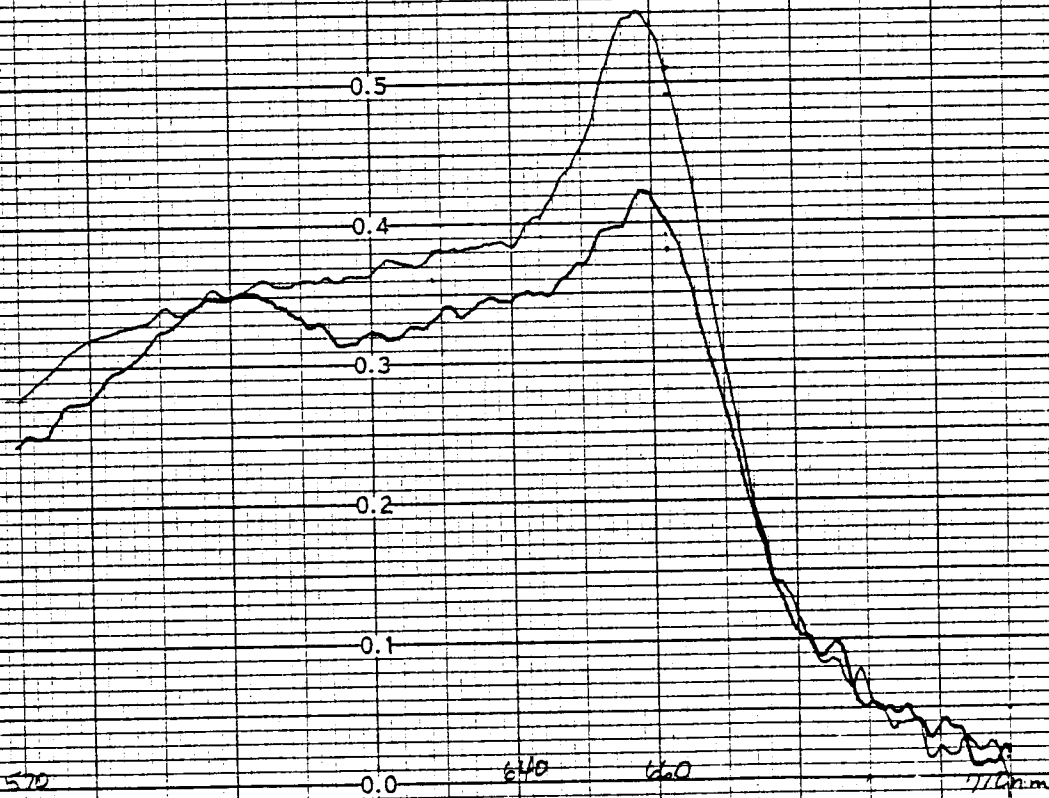


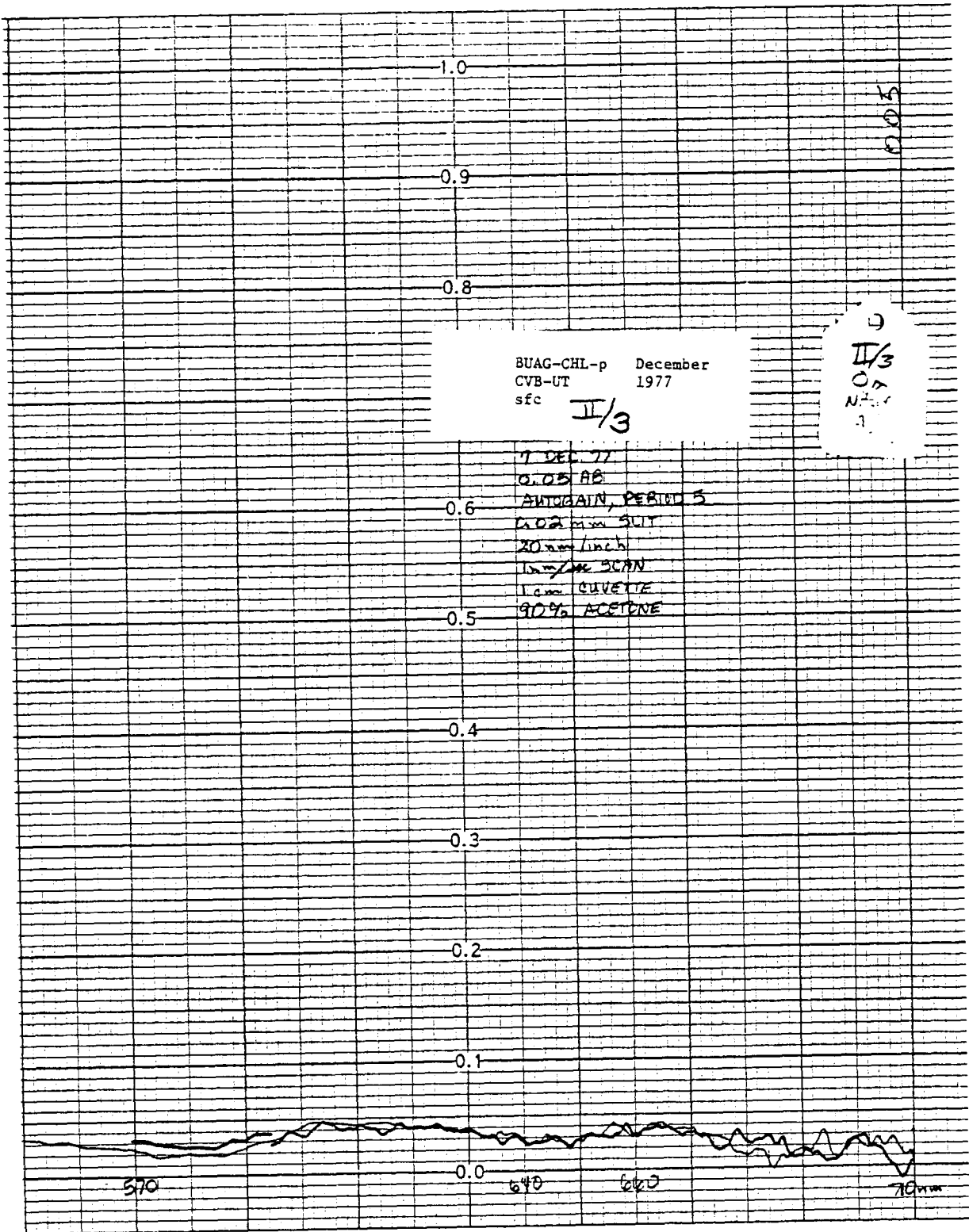
BUAH-CHL-n December  
CVB-UT 1977  
sfc

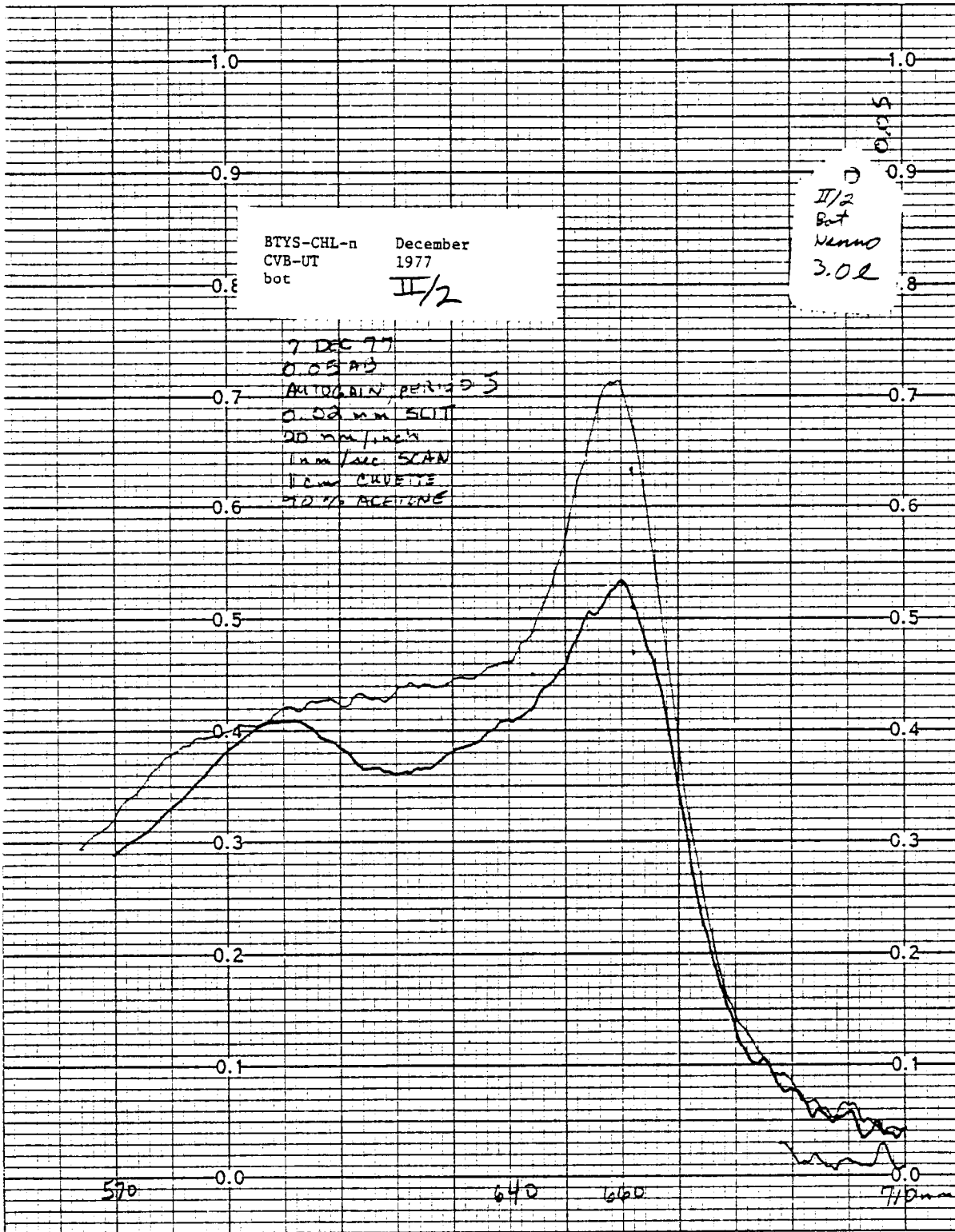
II/3

0.25  
0.2  
0.15  
0.1  
0.05  
32

T DEC 77  
0.05 A/B  
AUTOGAIN PERIOD 5  
0.02 mm SET  
20cm/inch  
mm wave SCAN  
1cm CABLETES  
91% ALISTONE

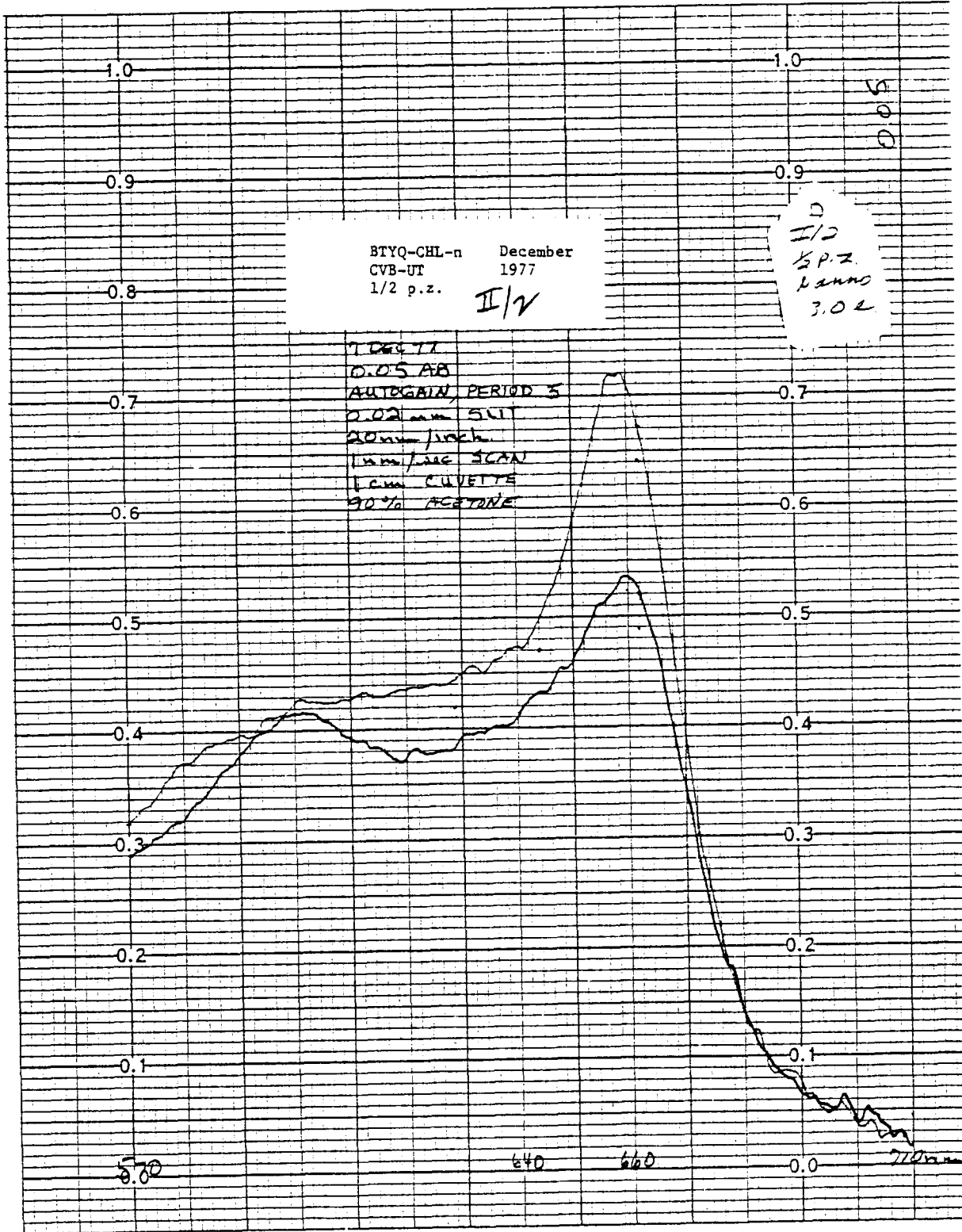


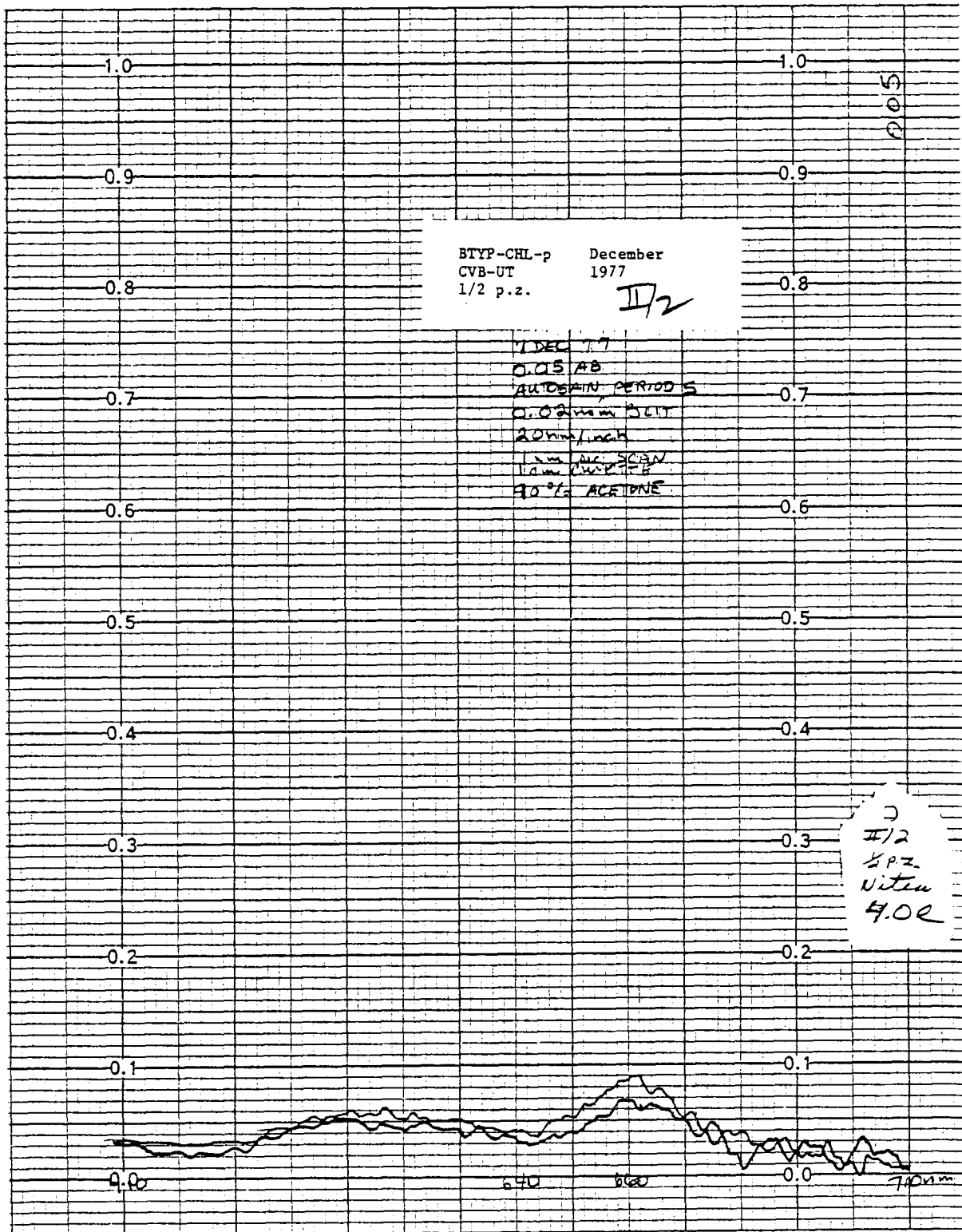


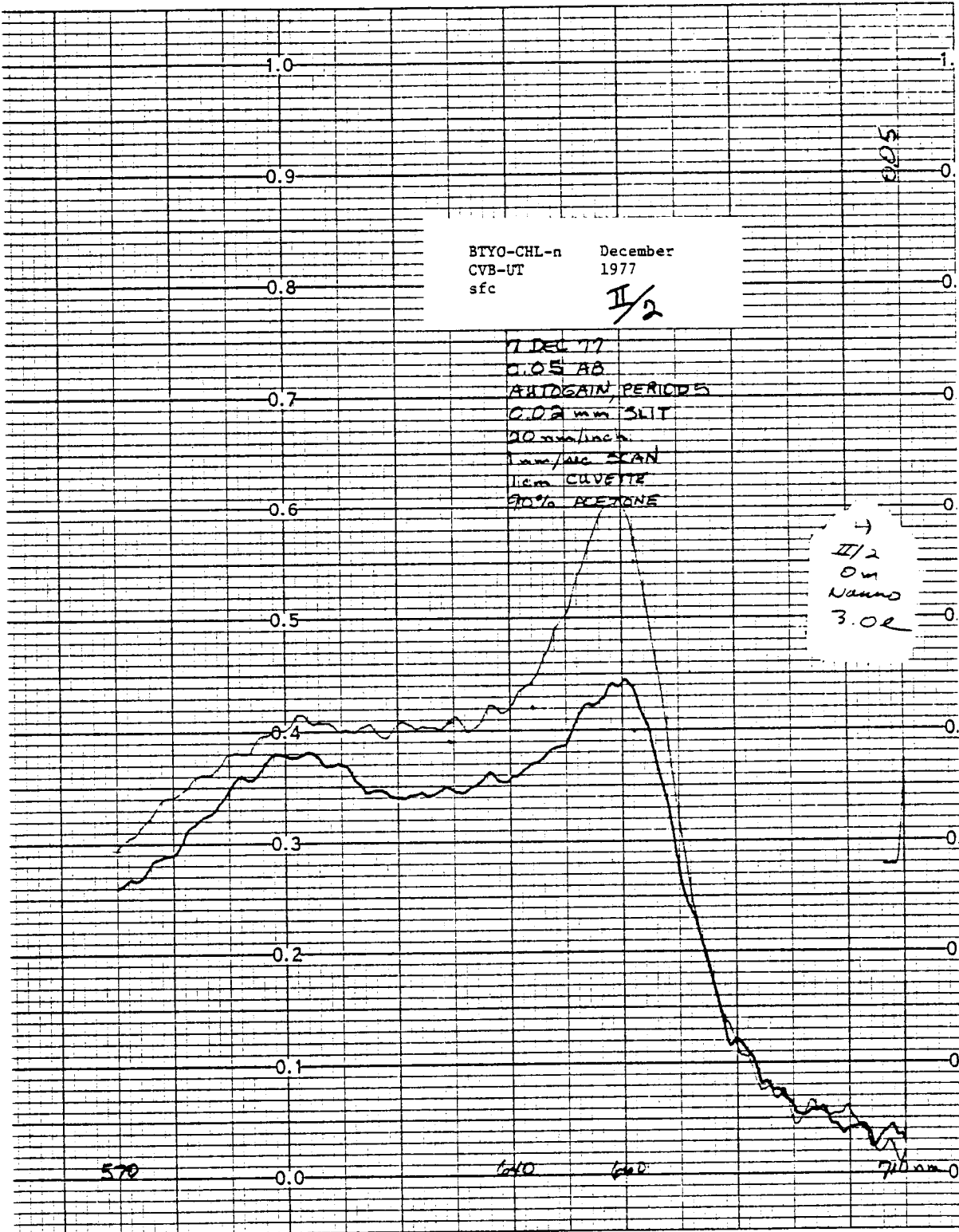


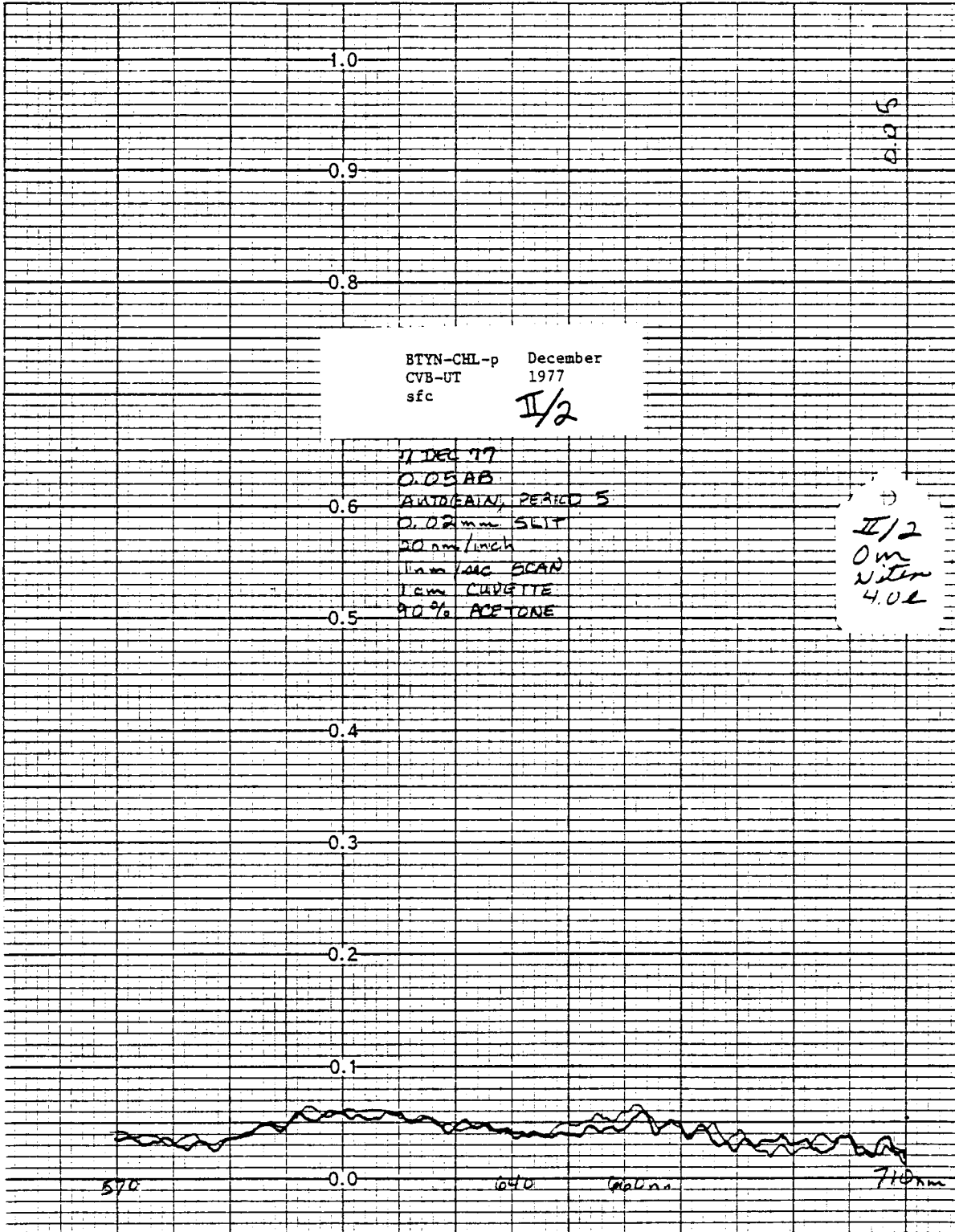


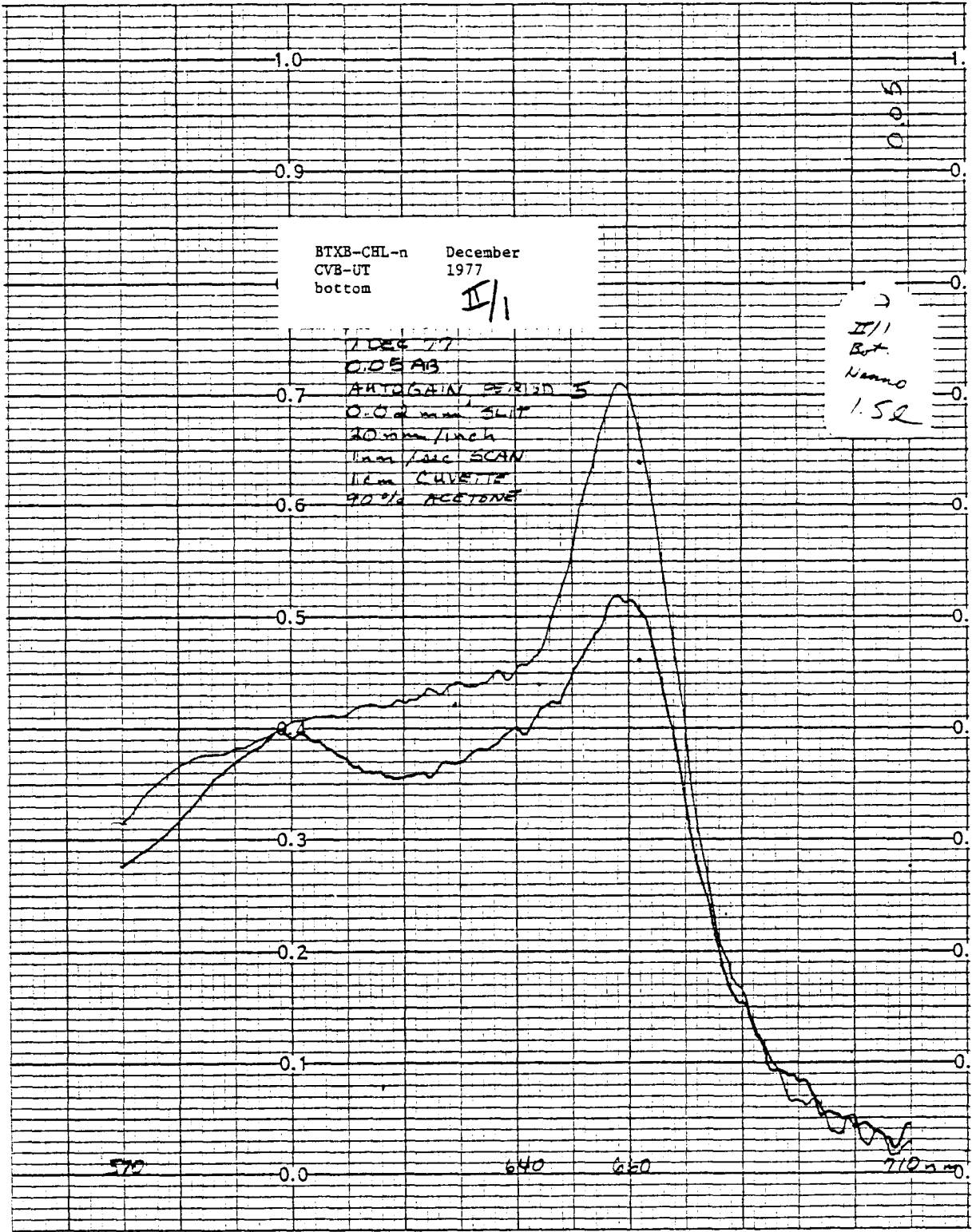


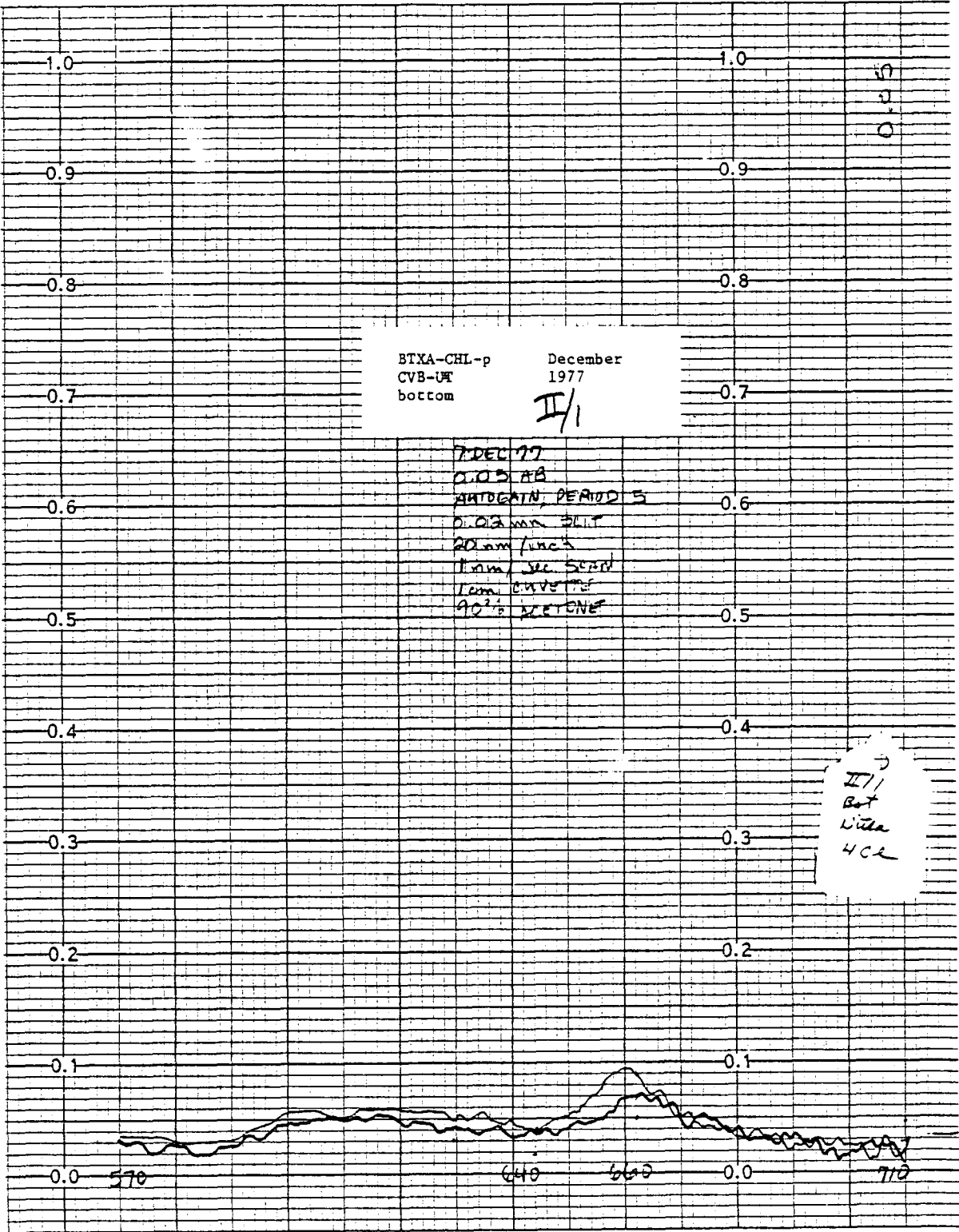


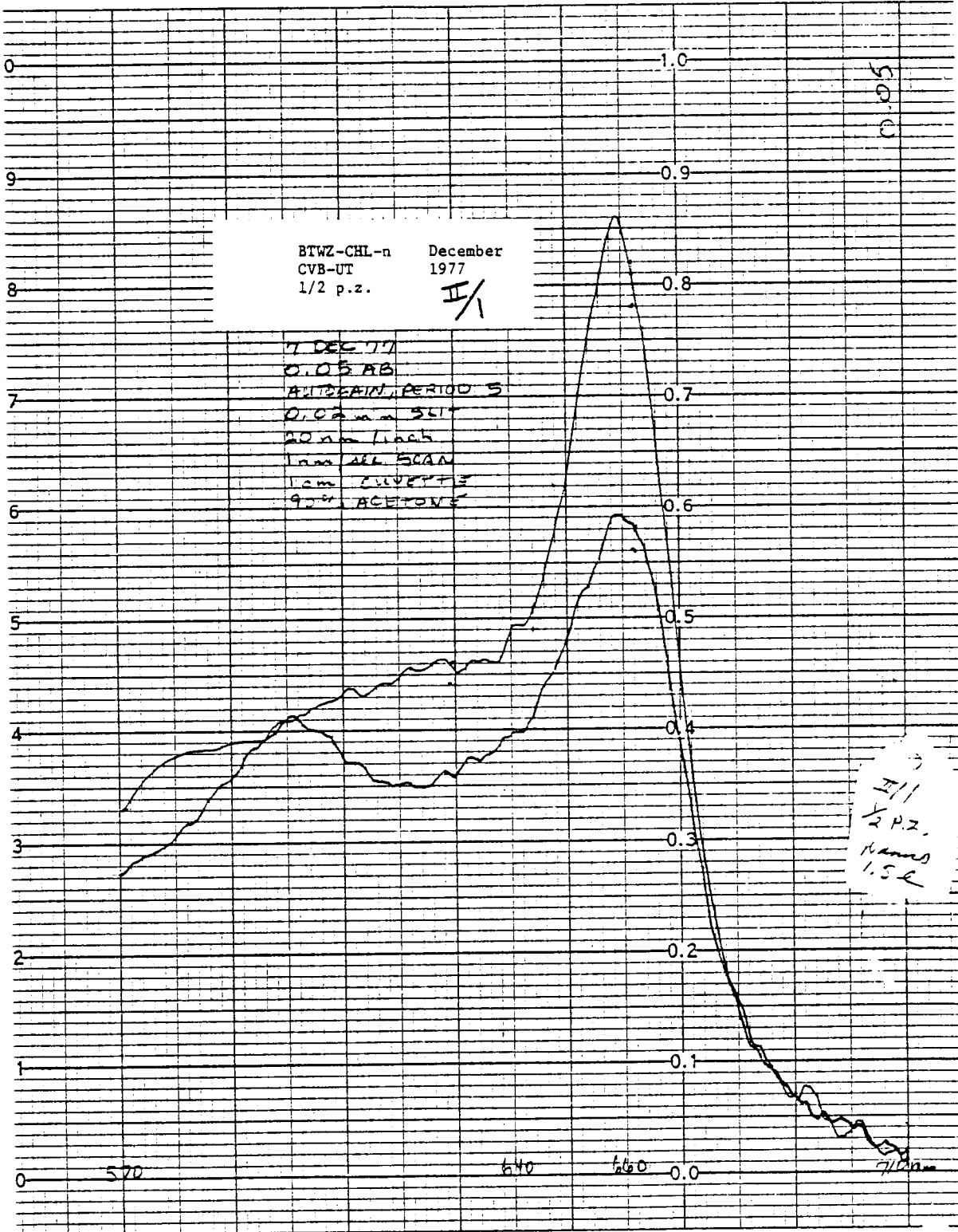


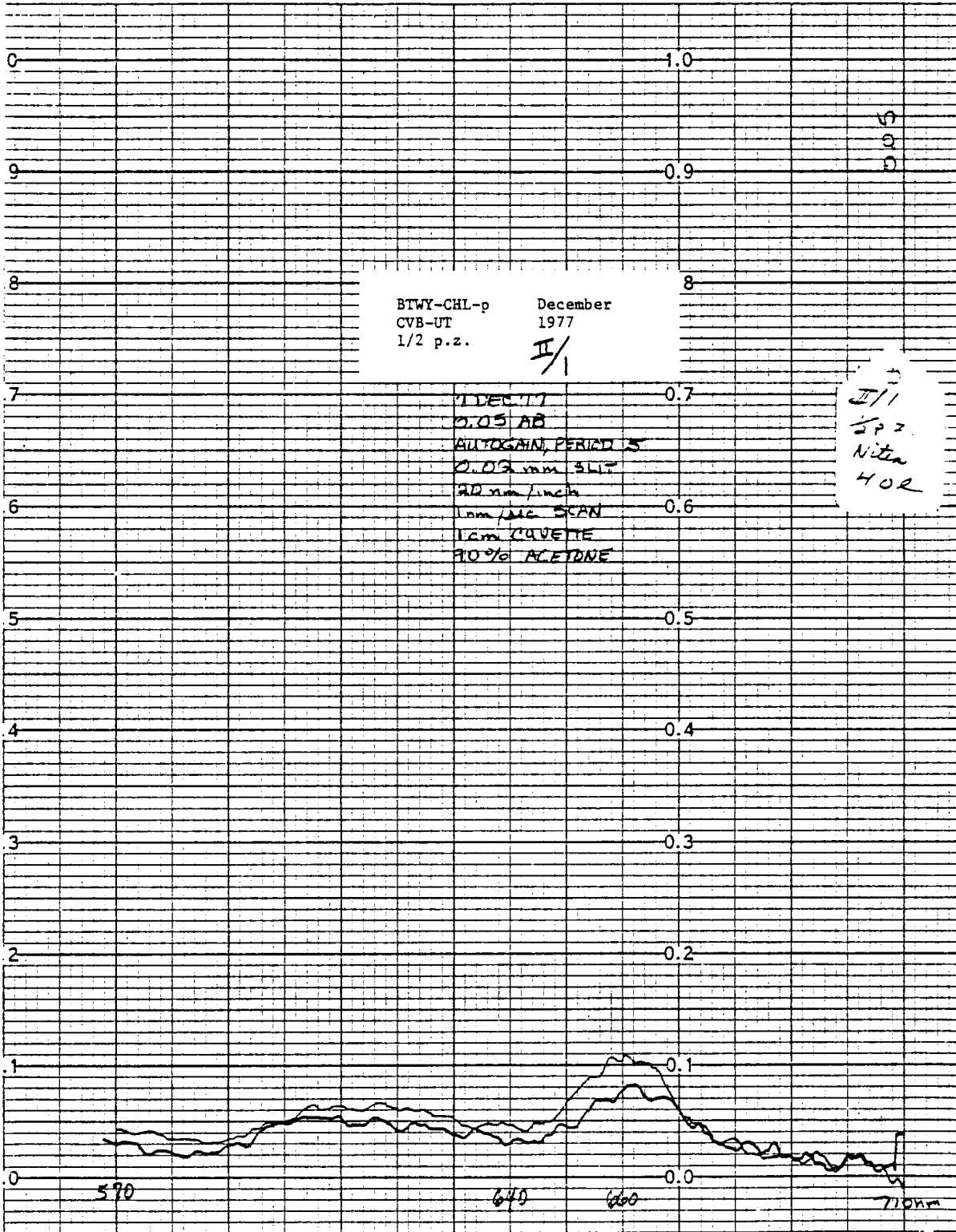




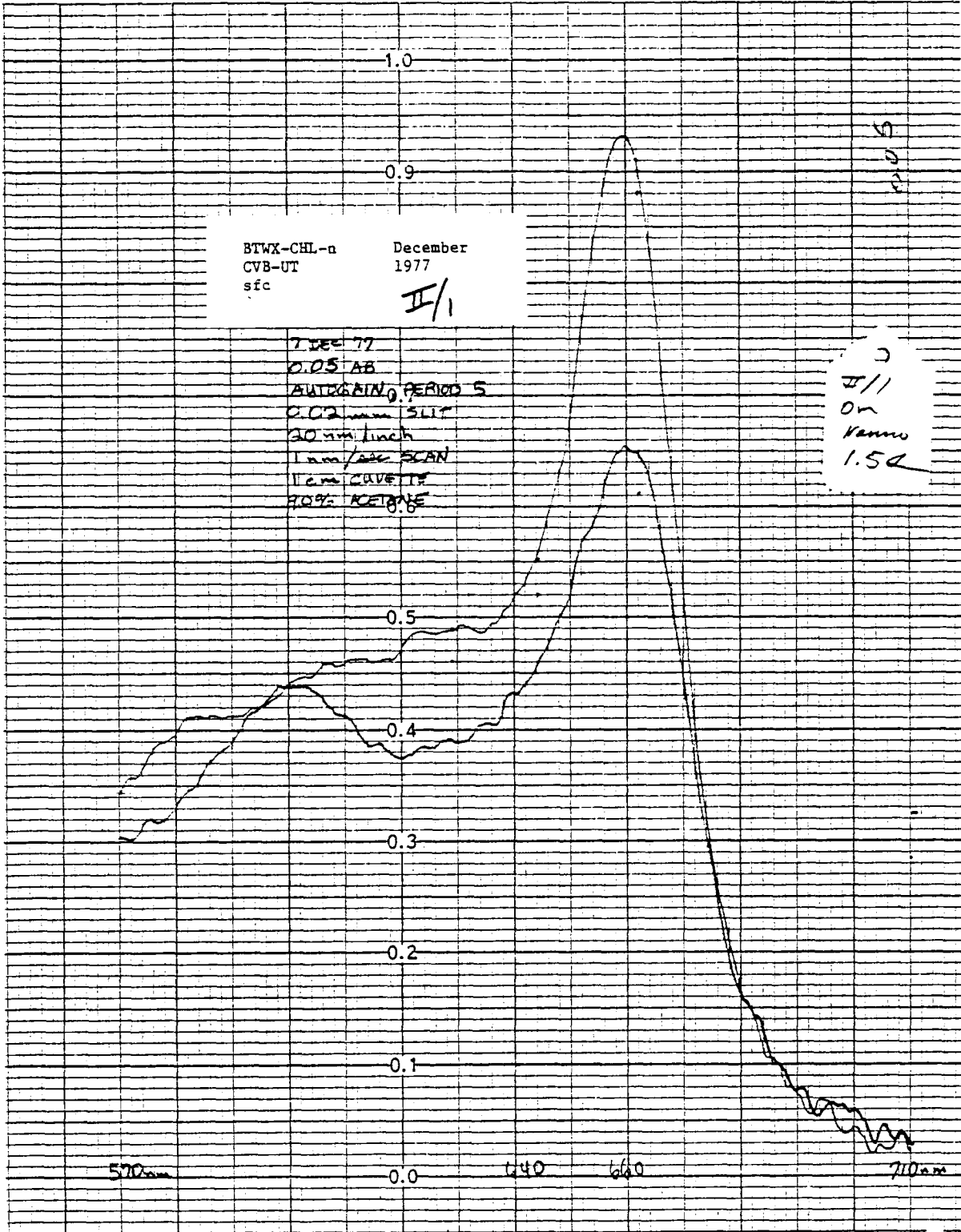


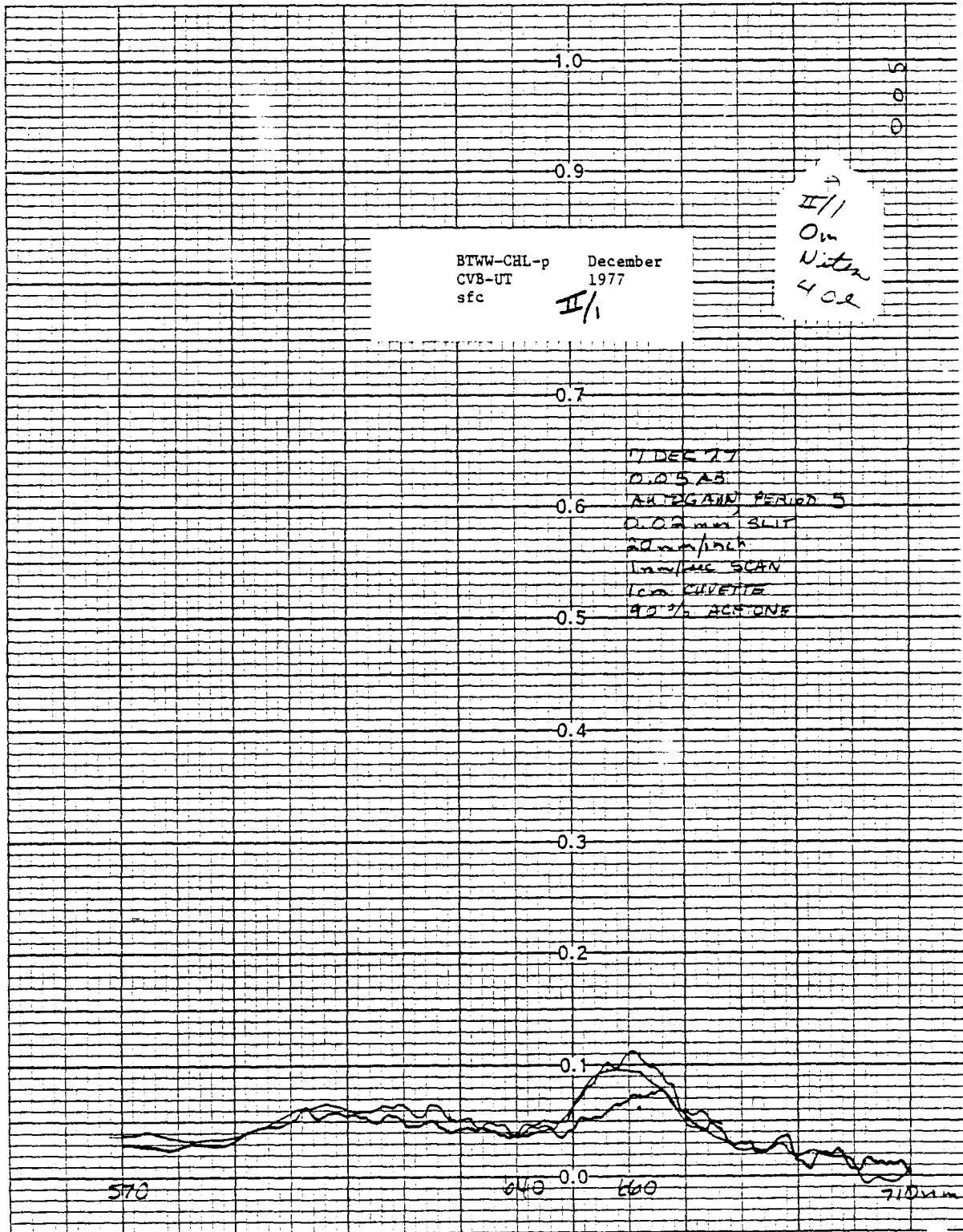


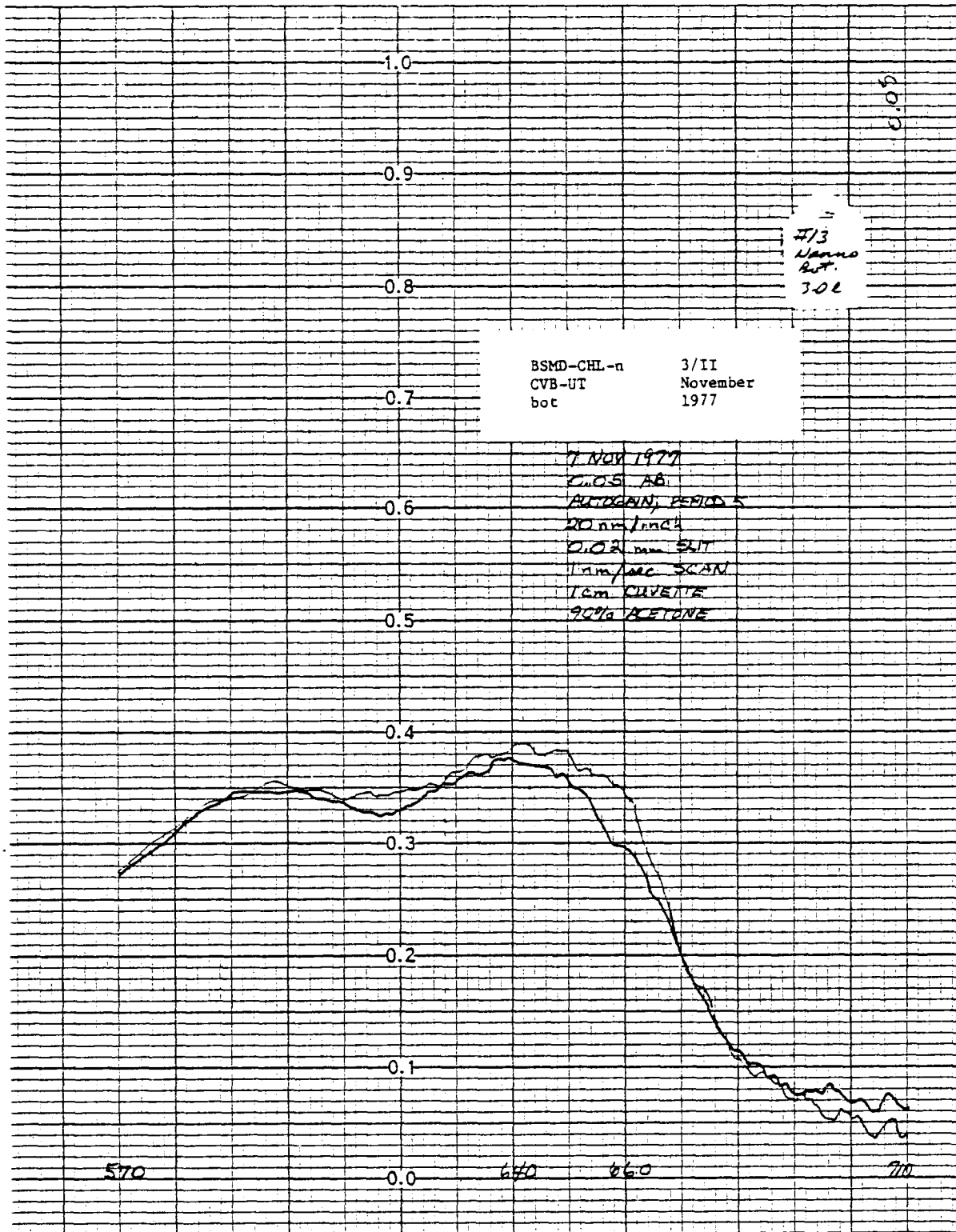


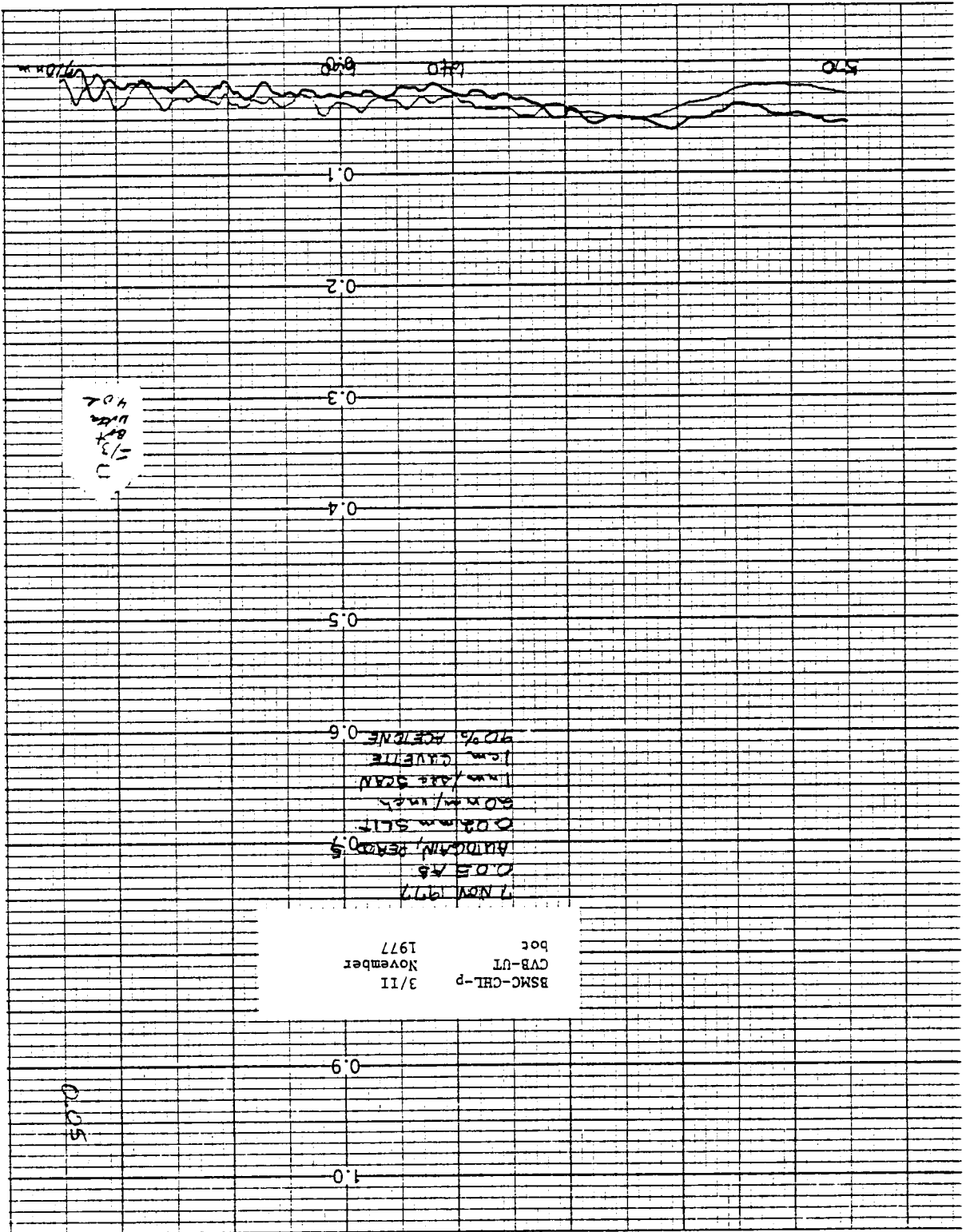


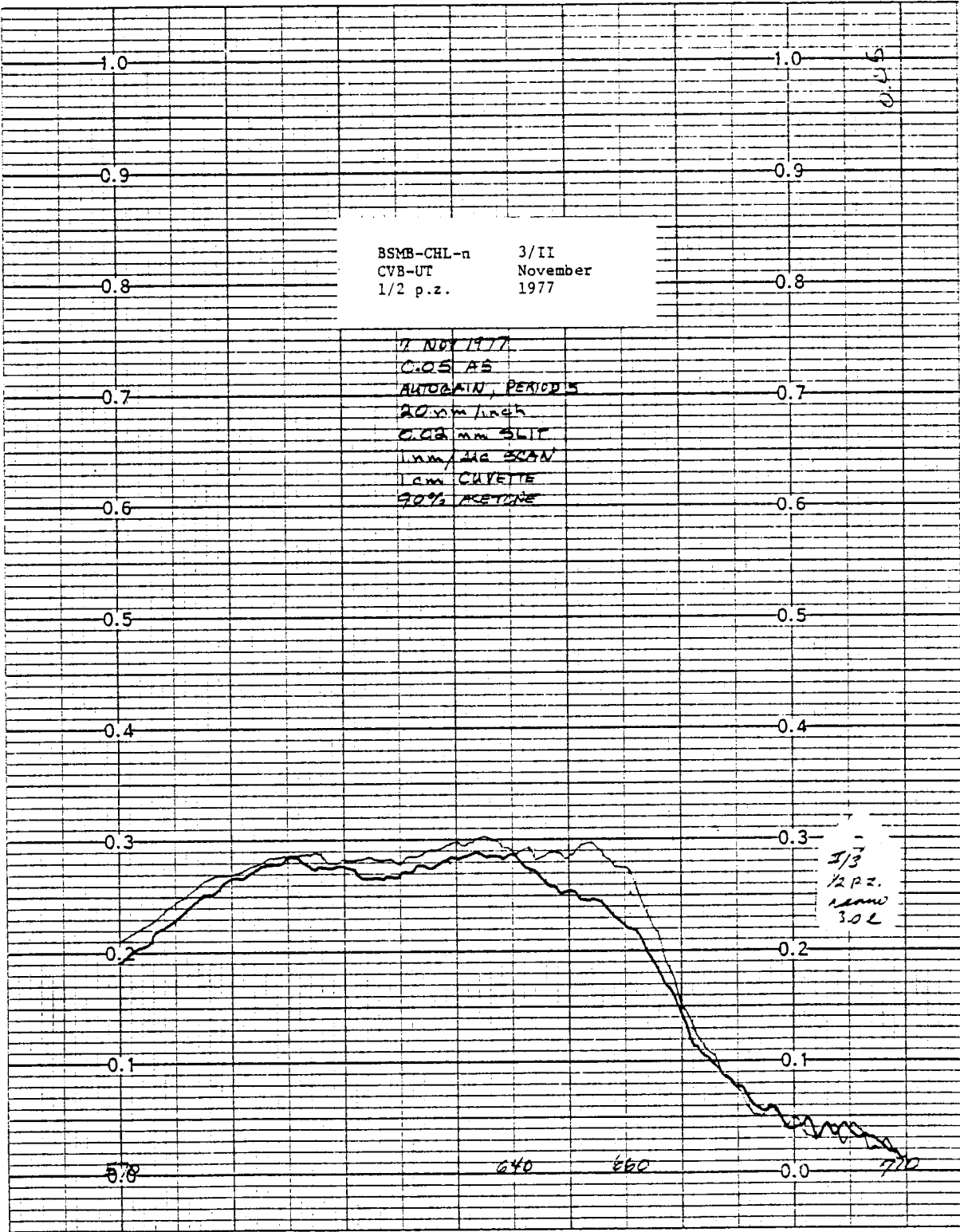


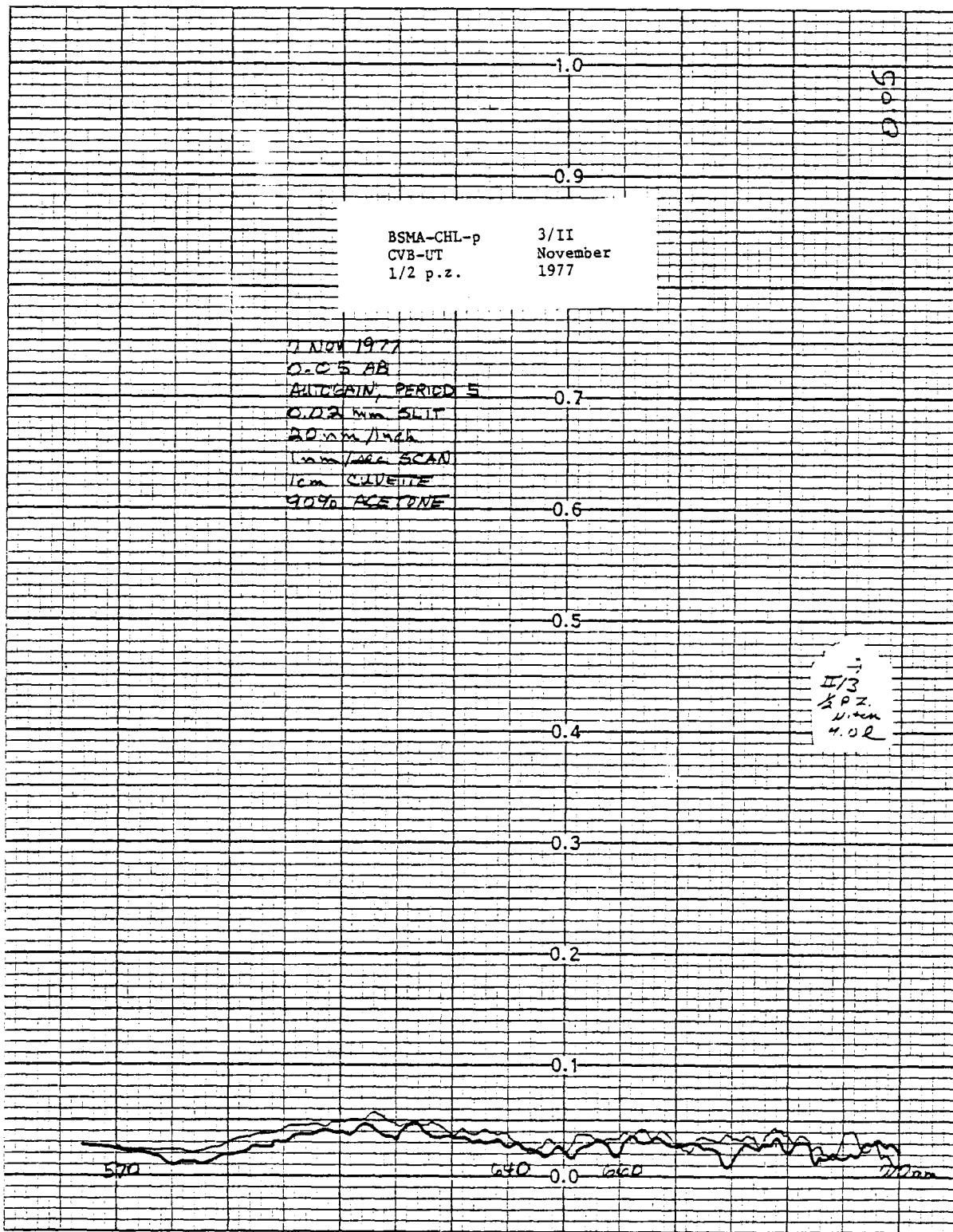


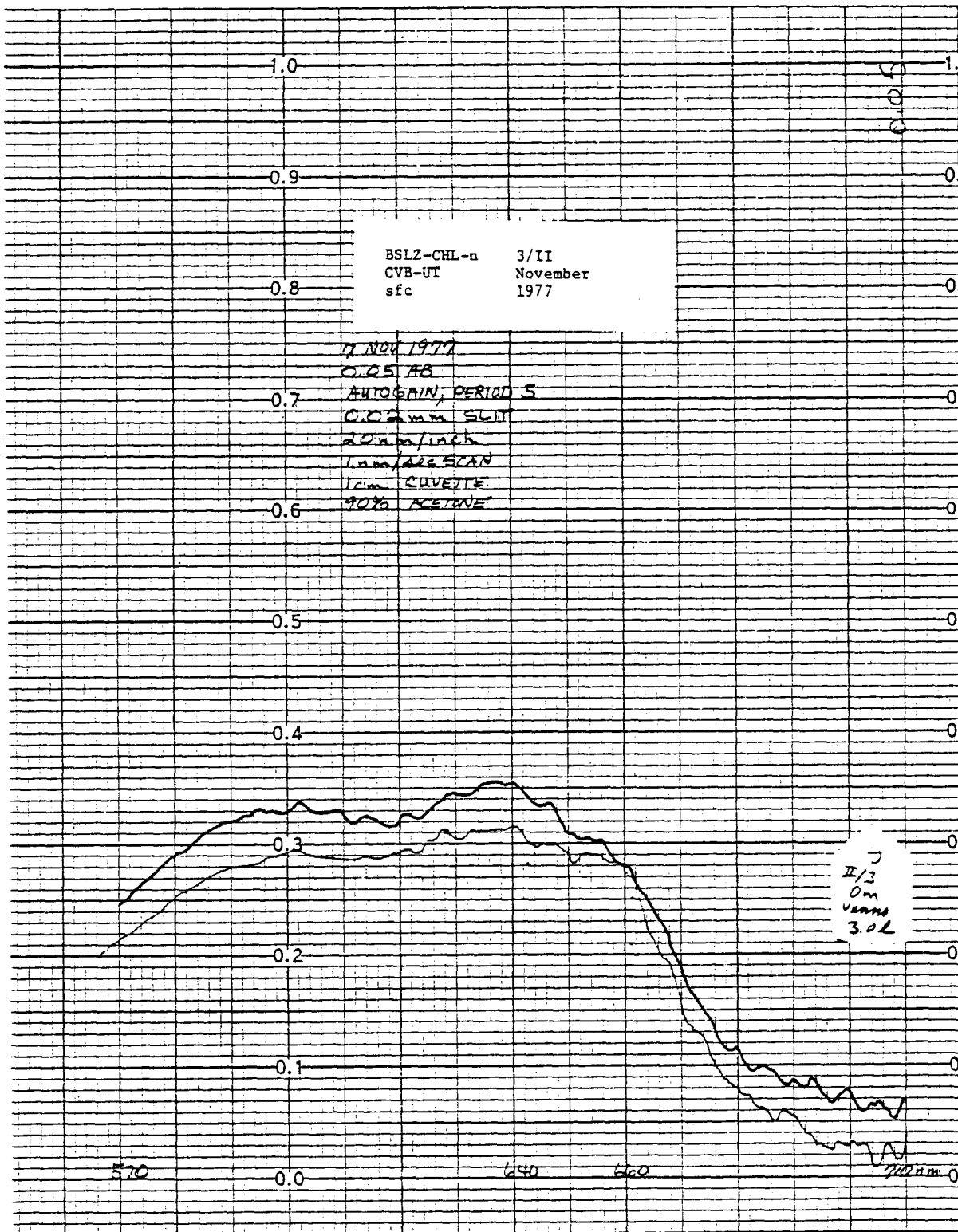


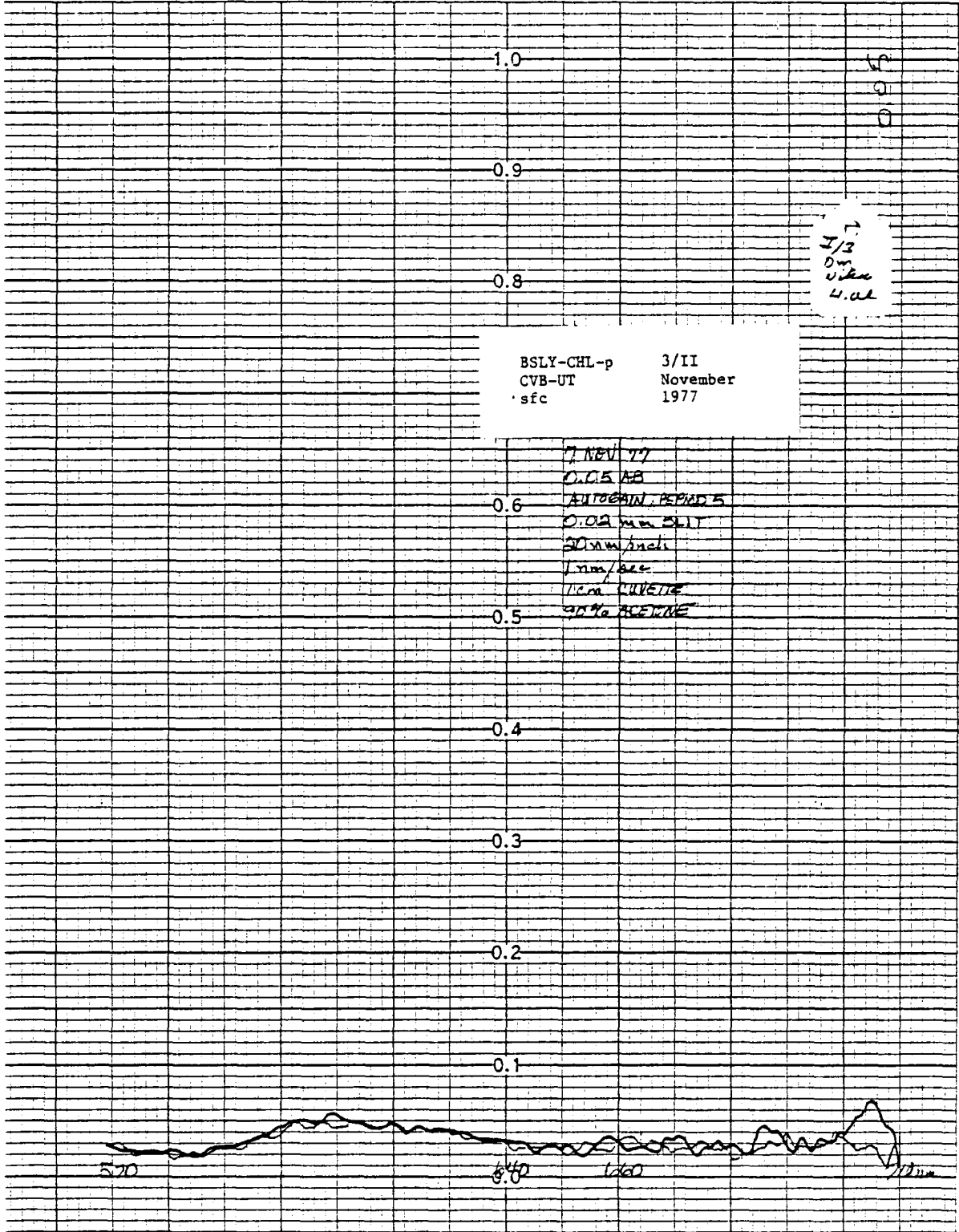




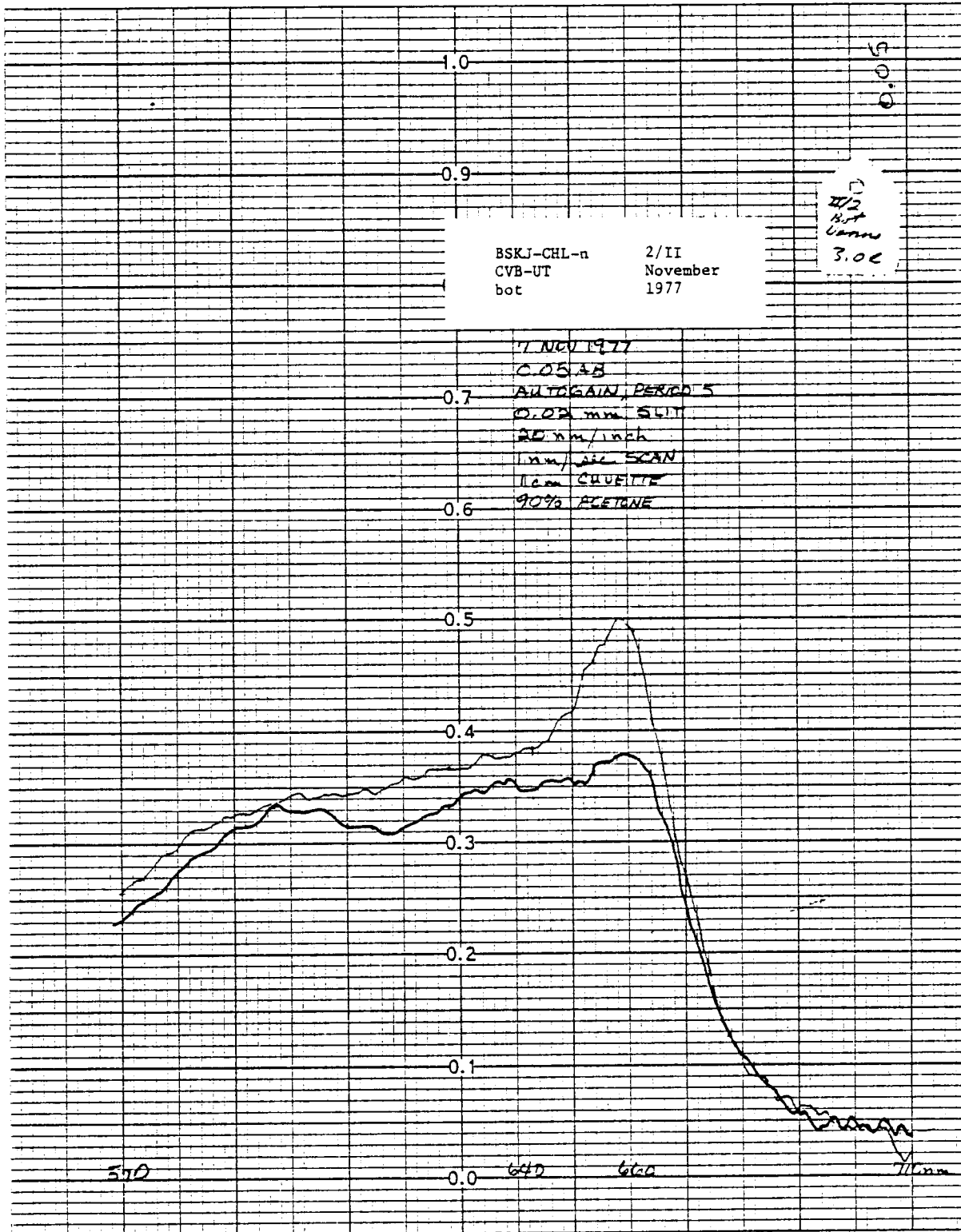


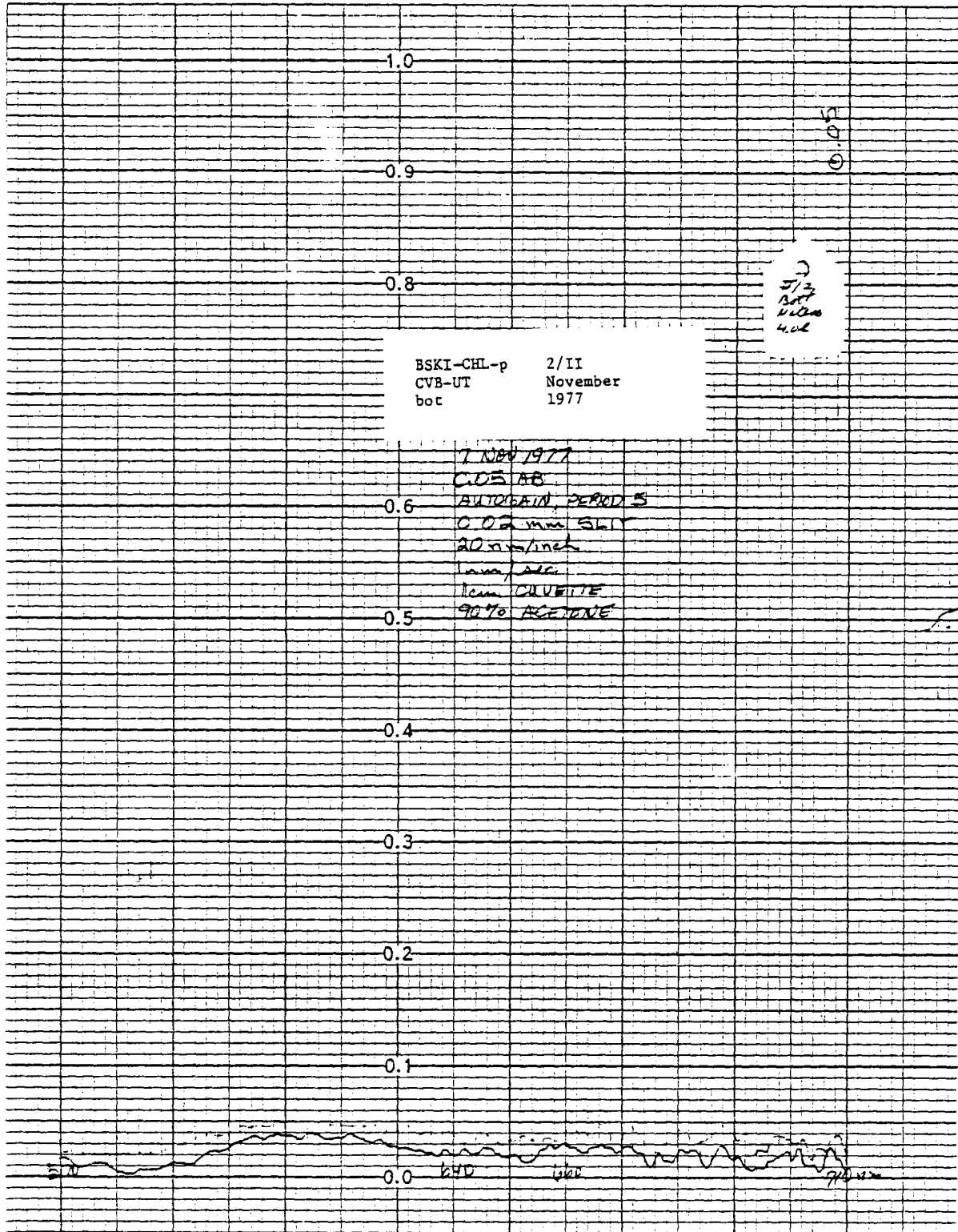


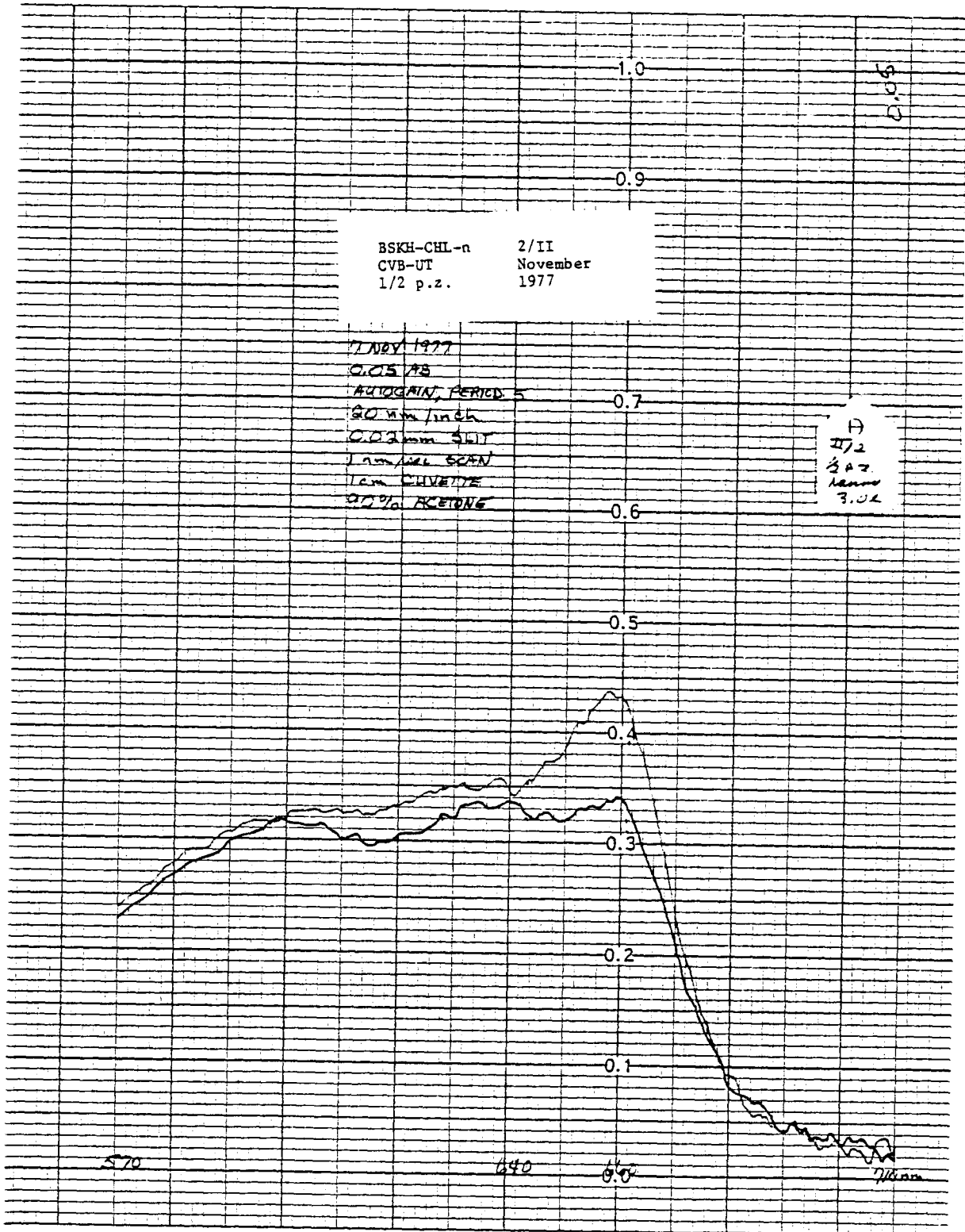


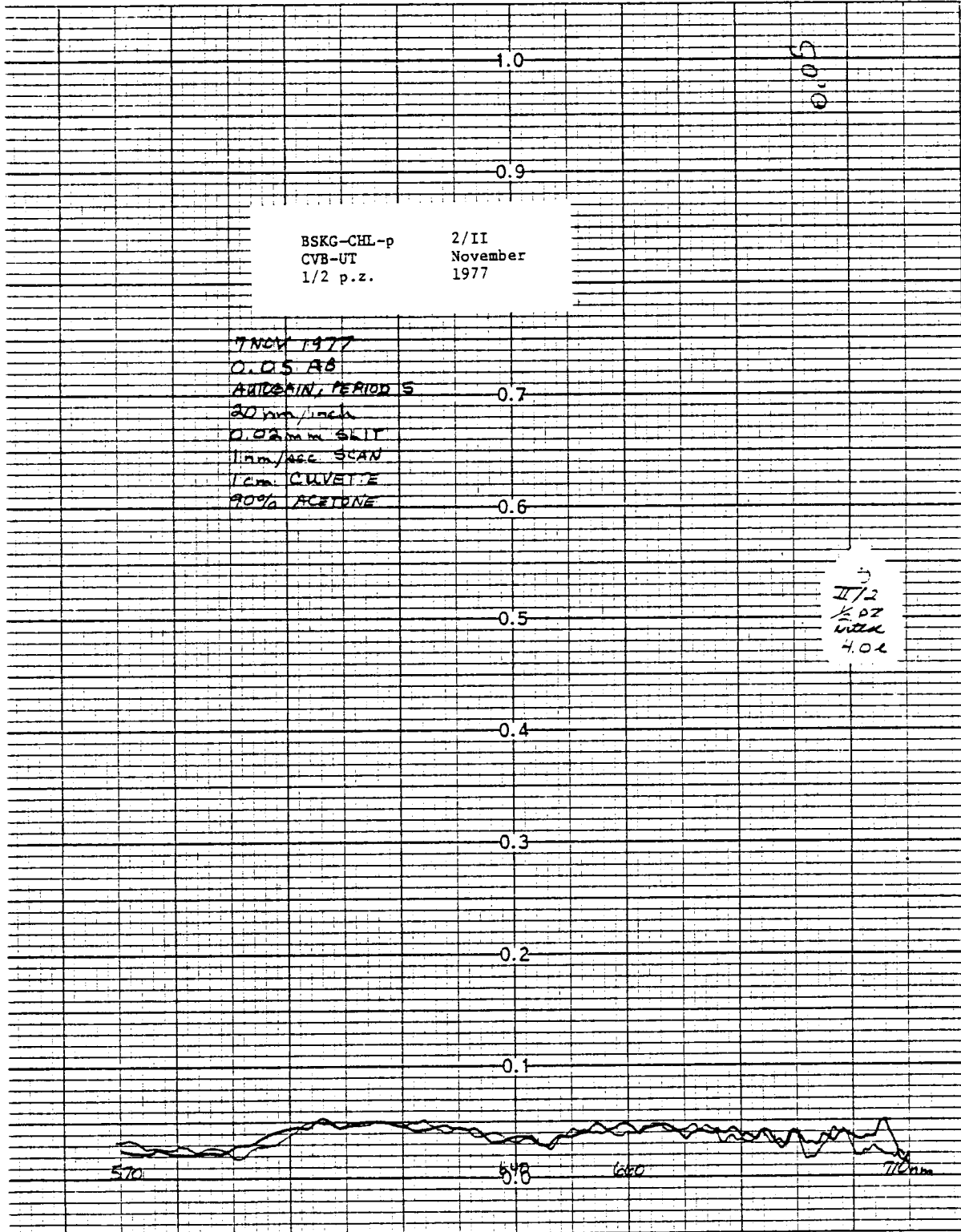


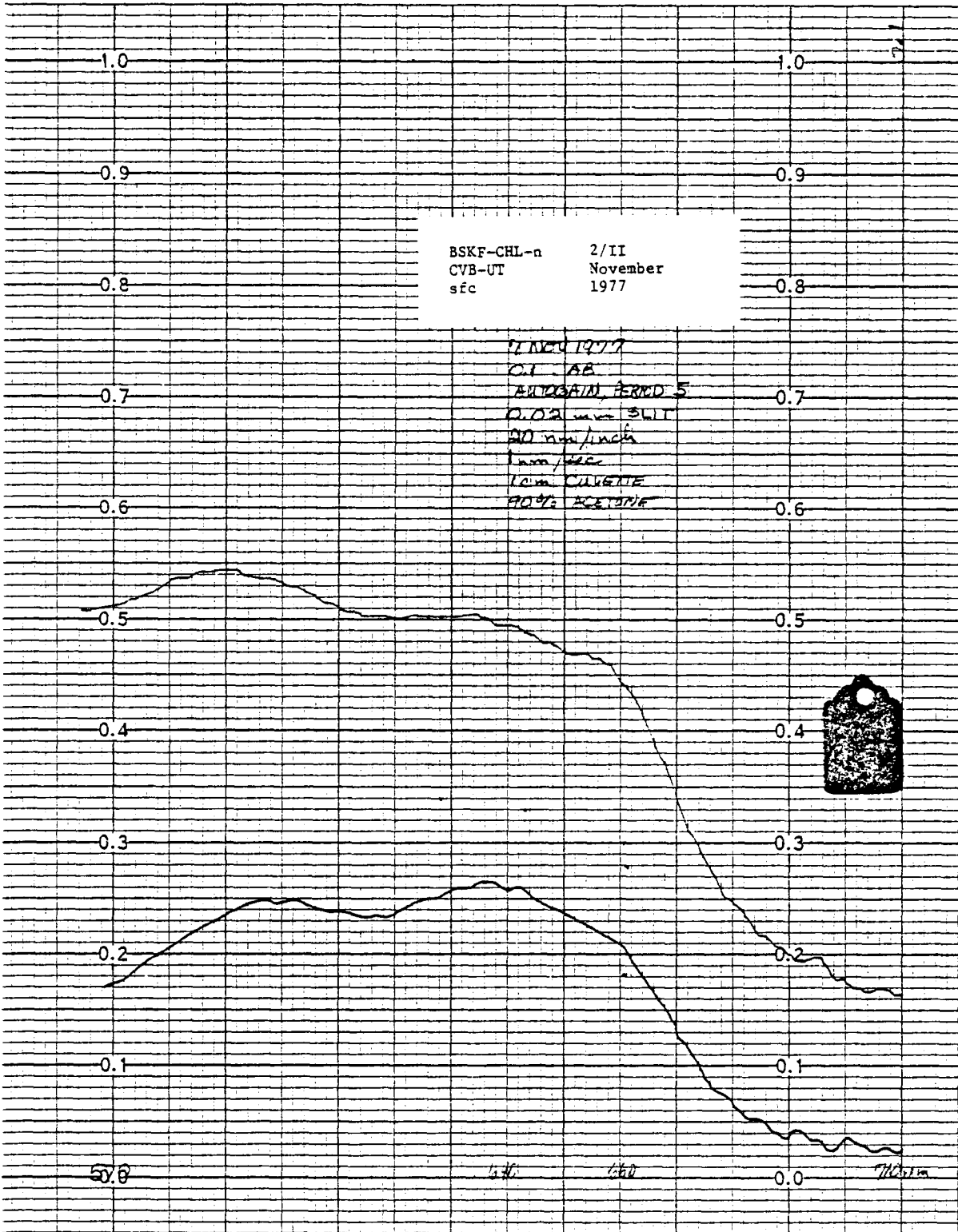


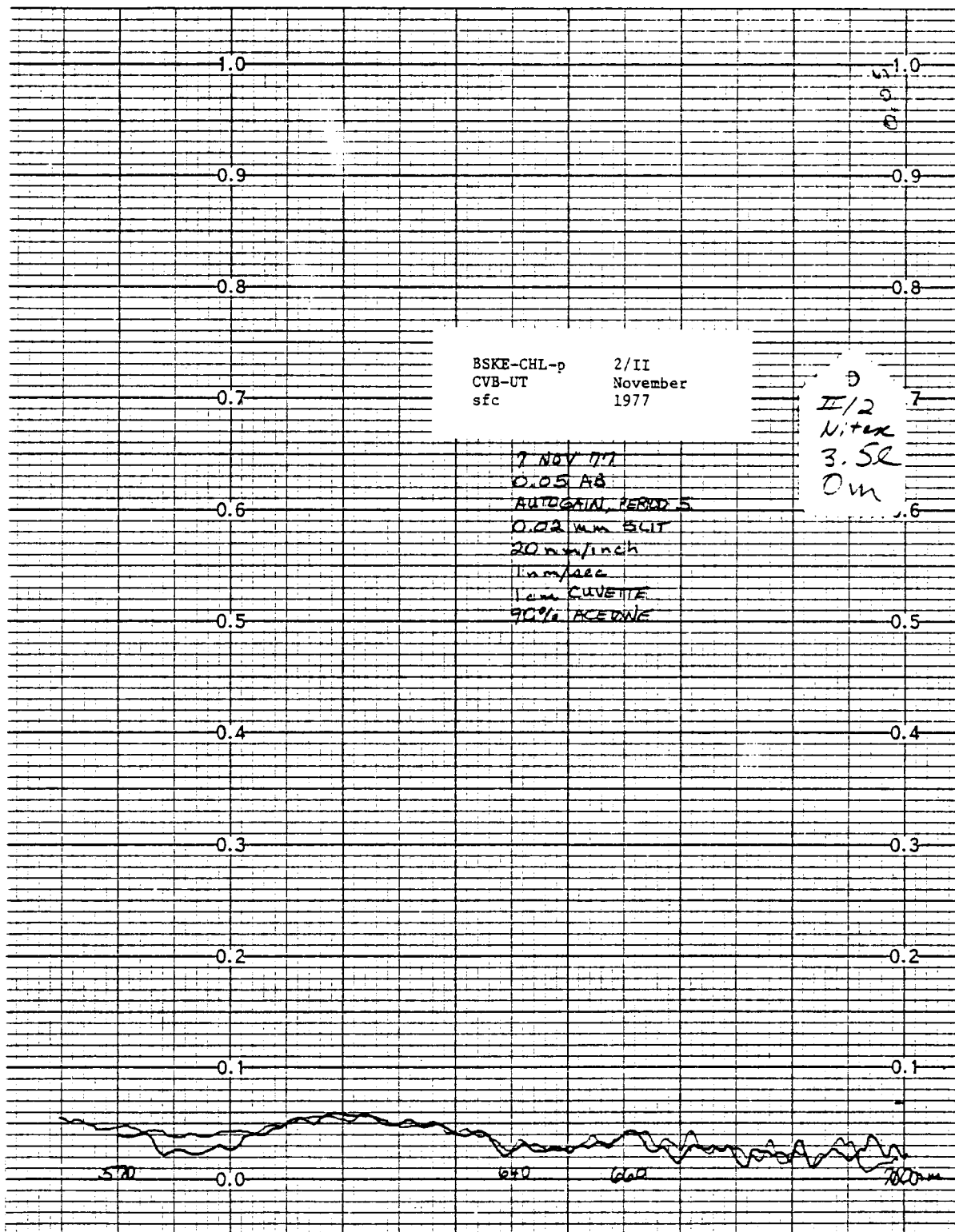


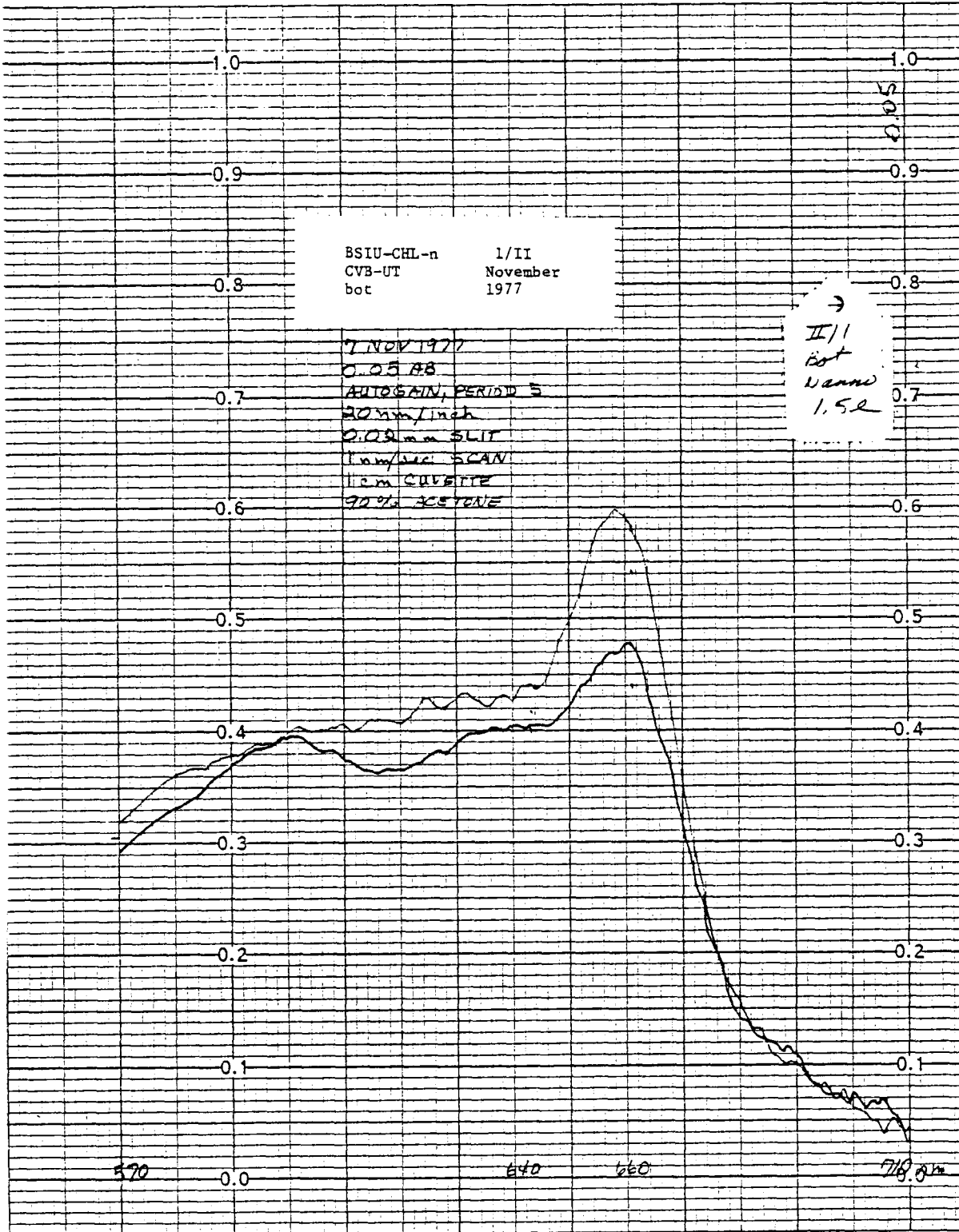


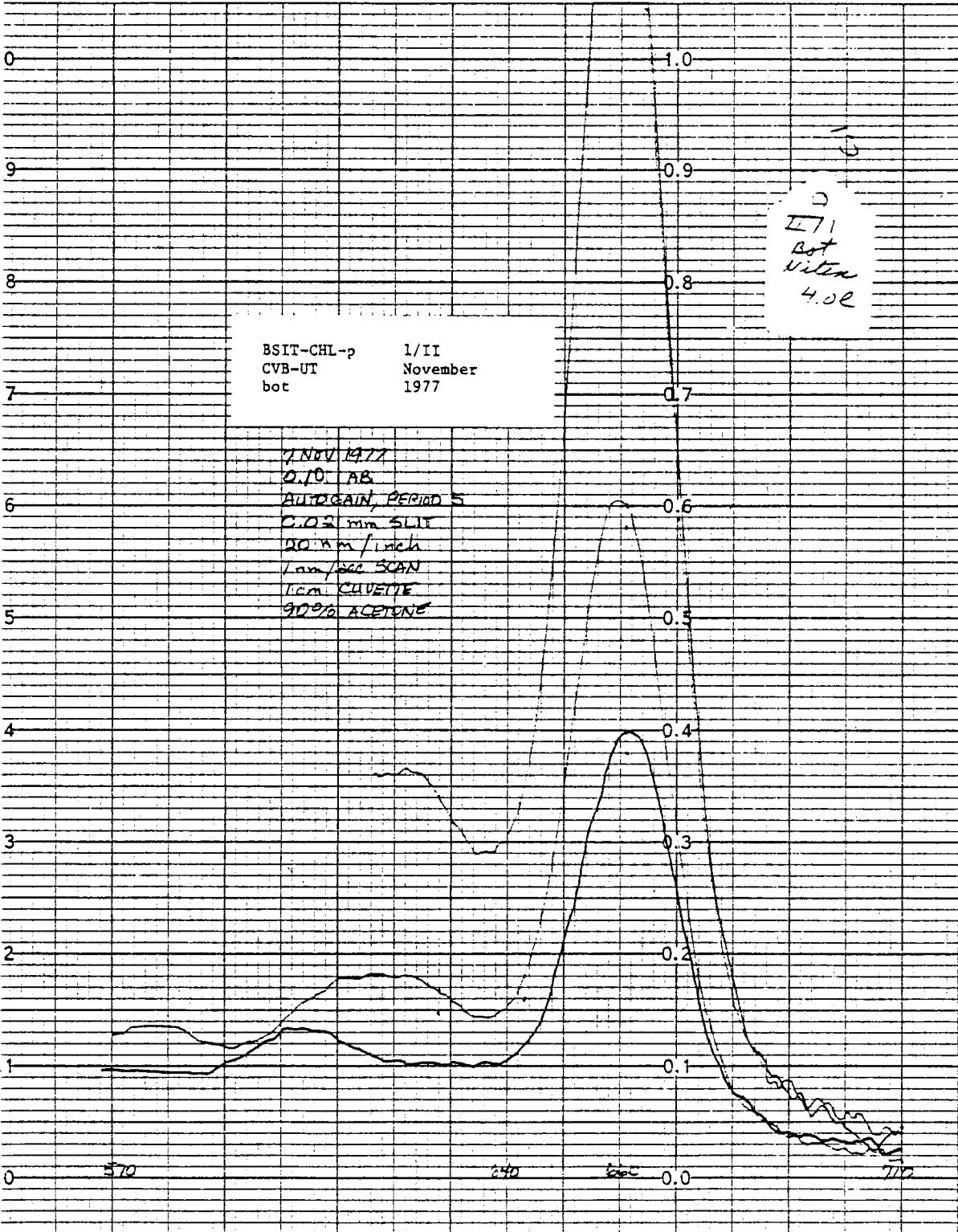




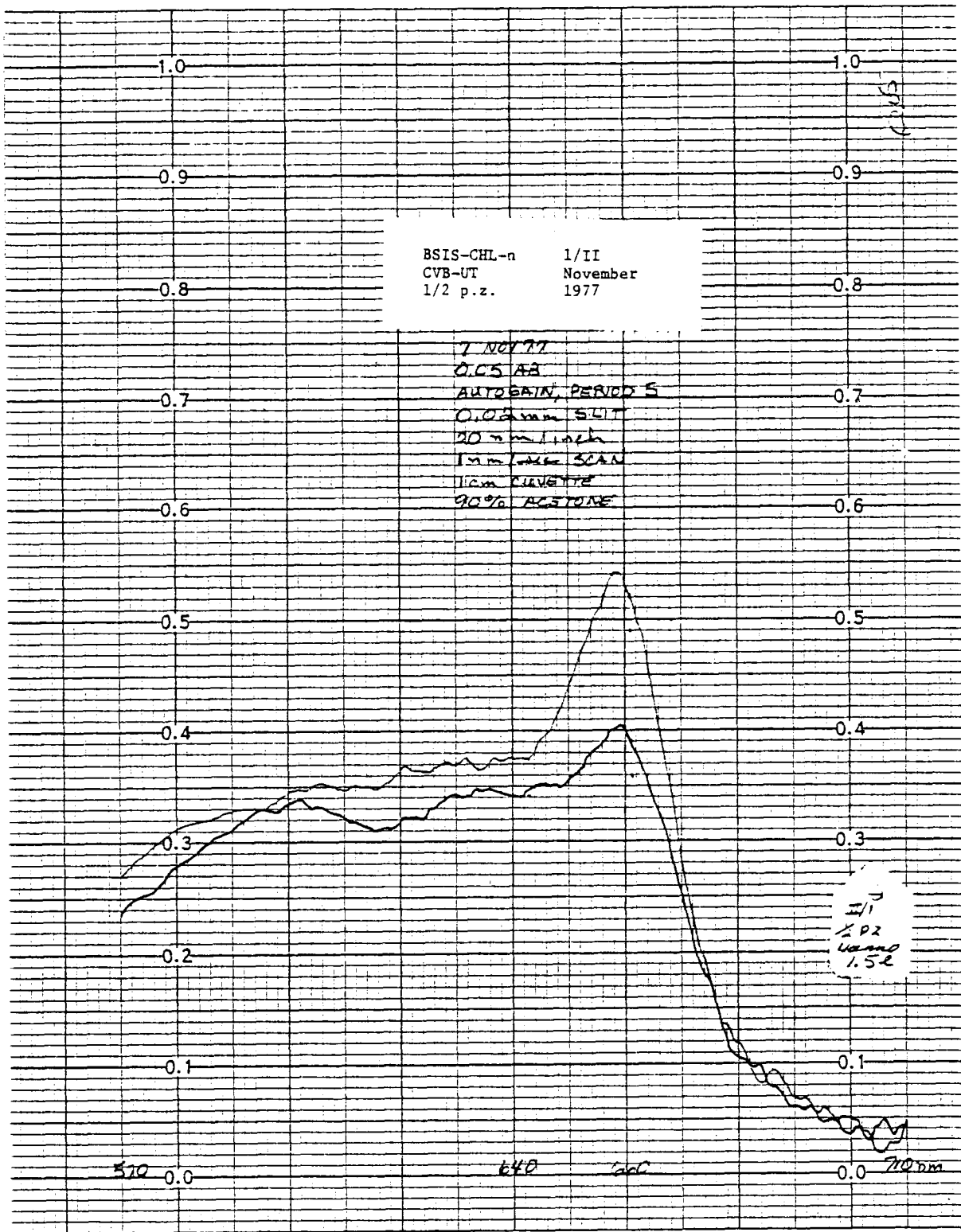


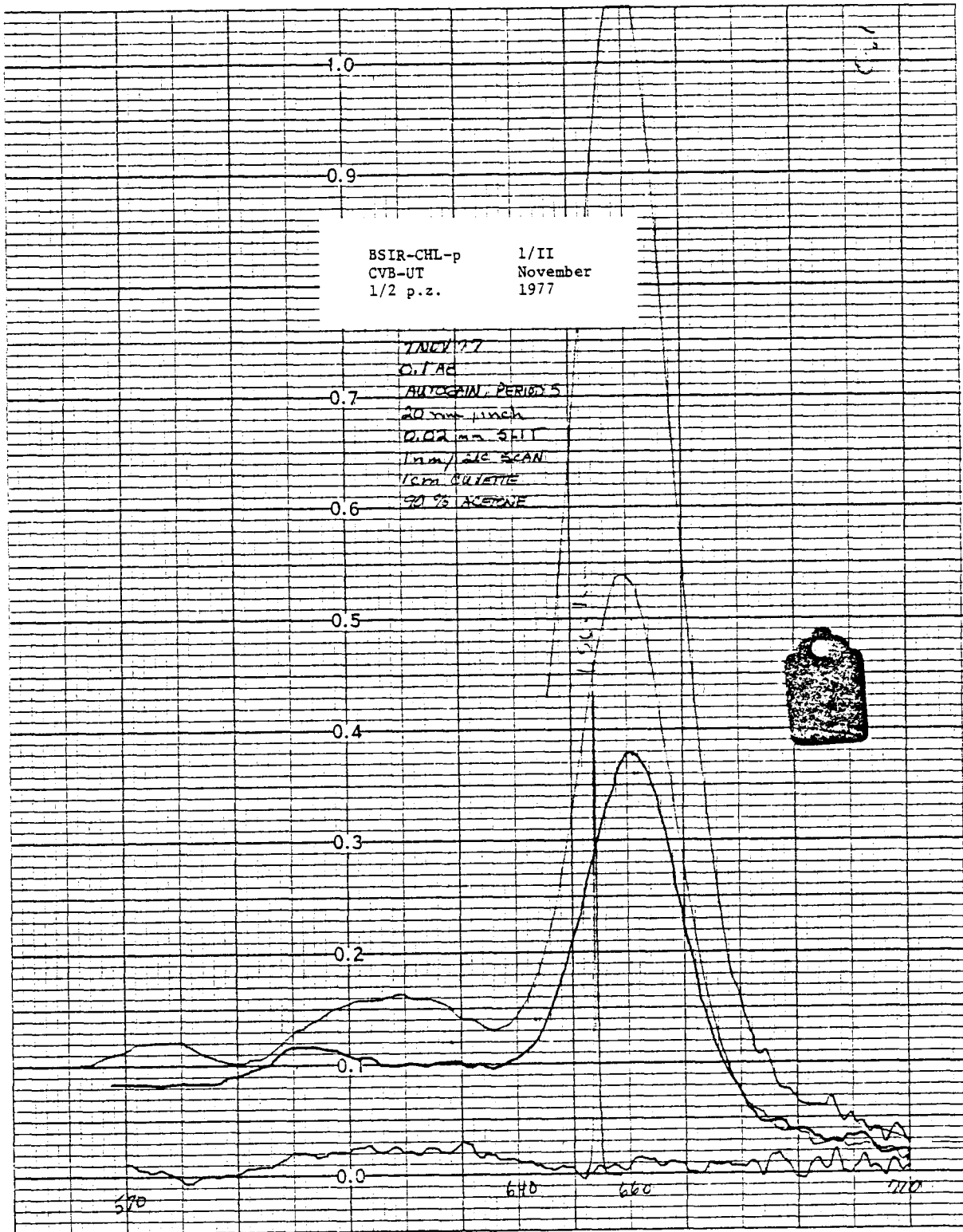


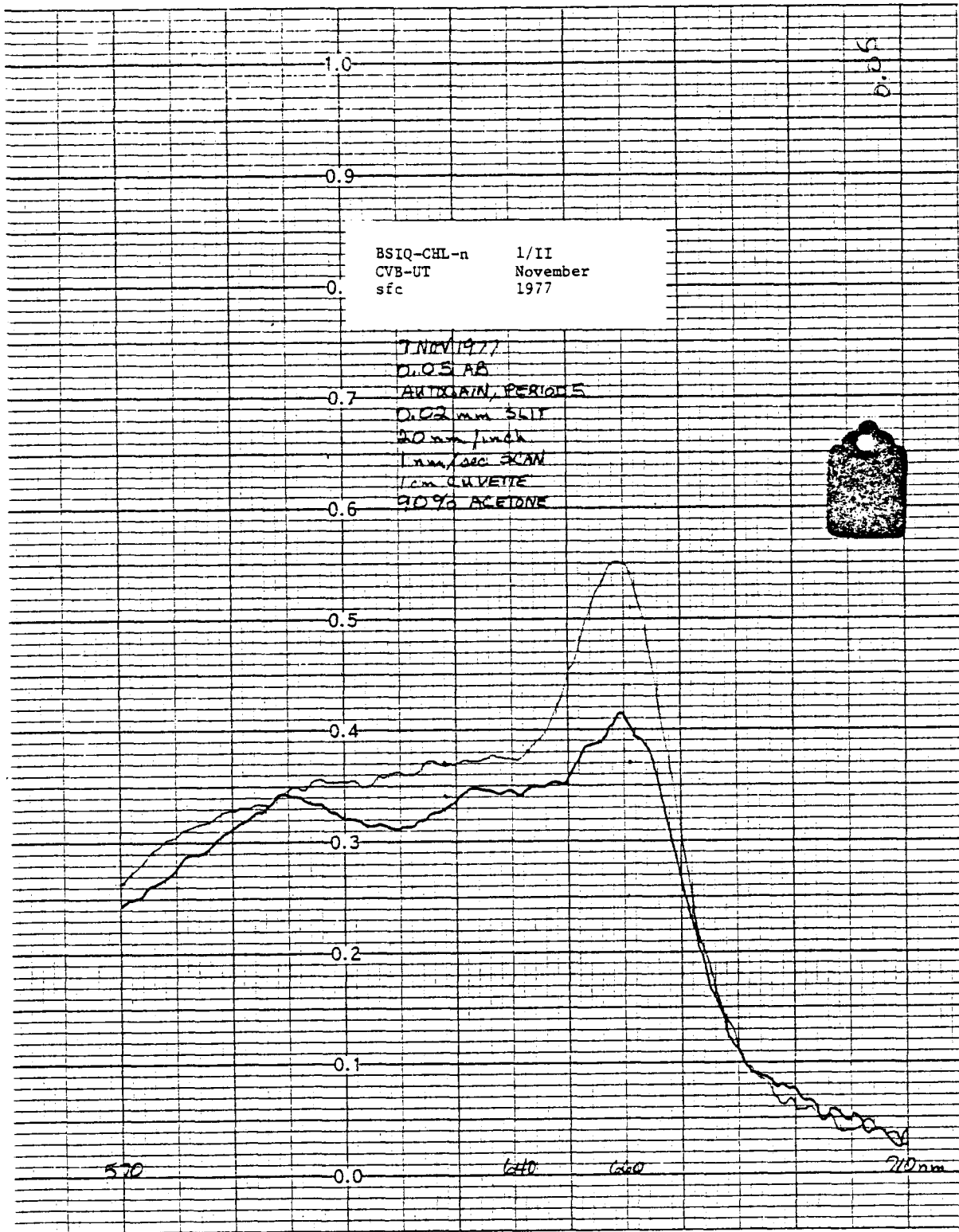


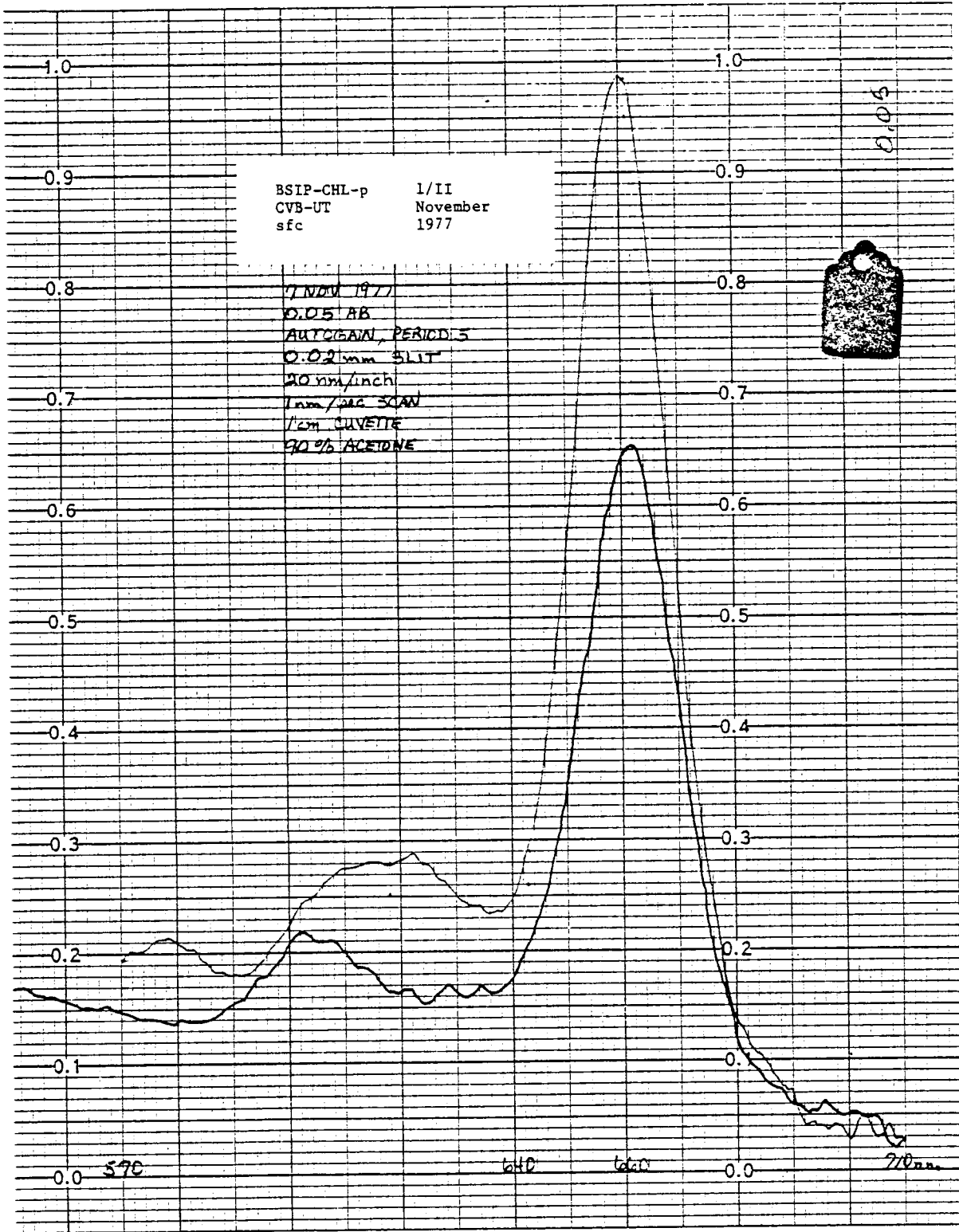


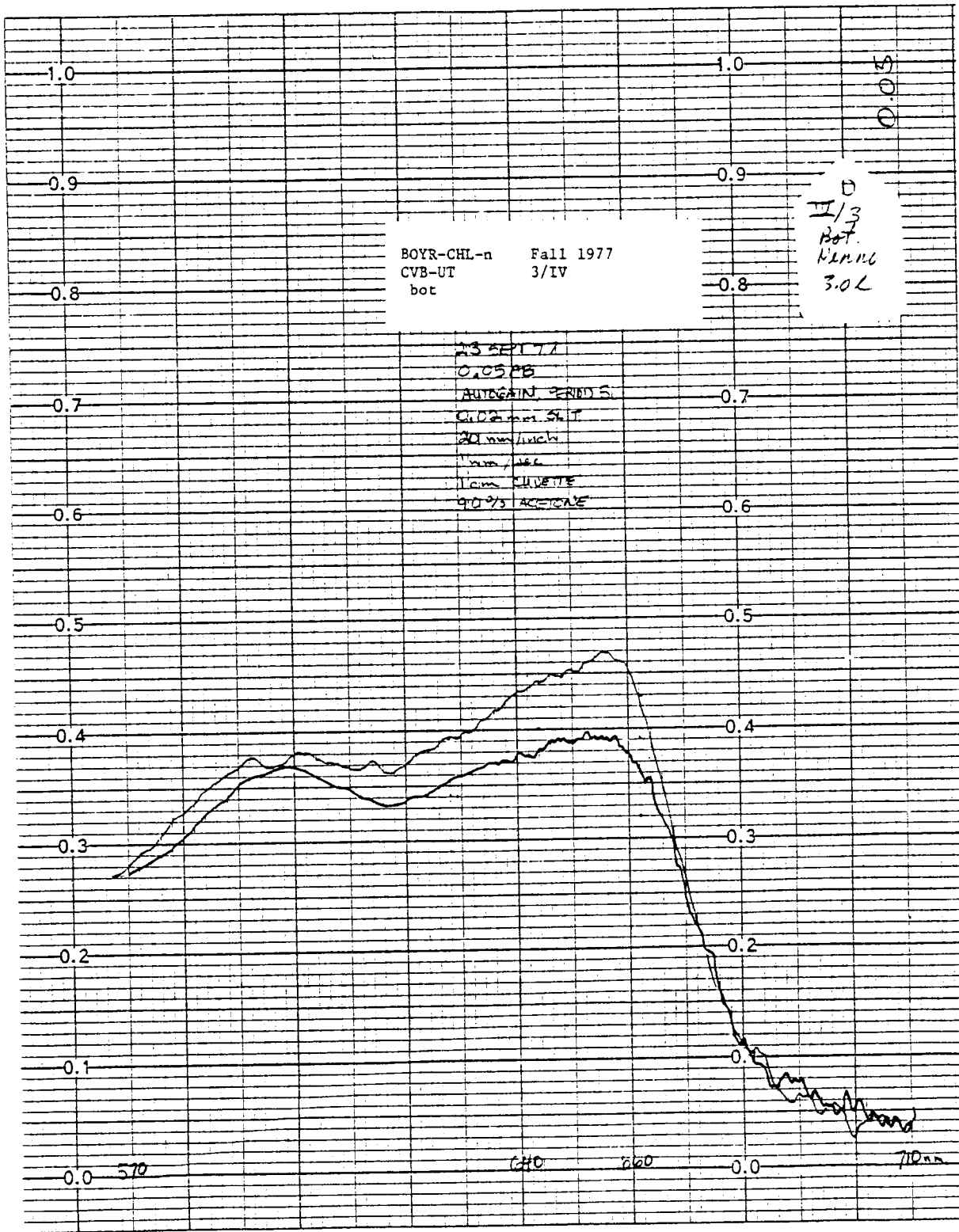


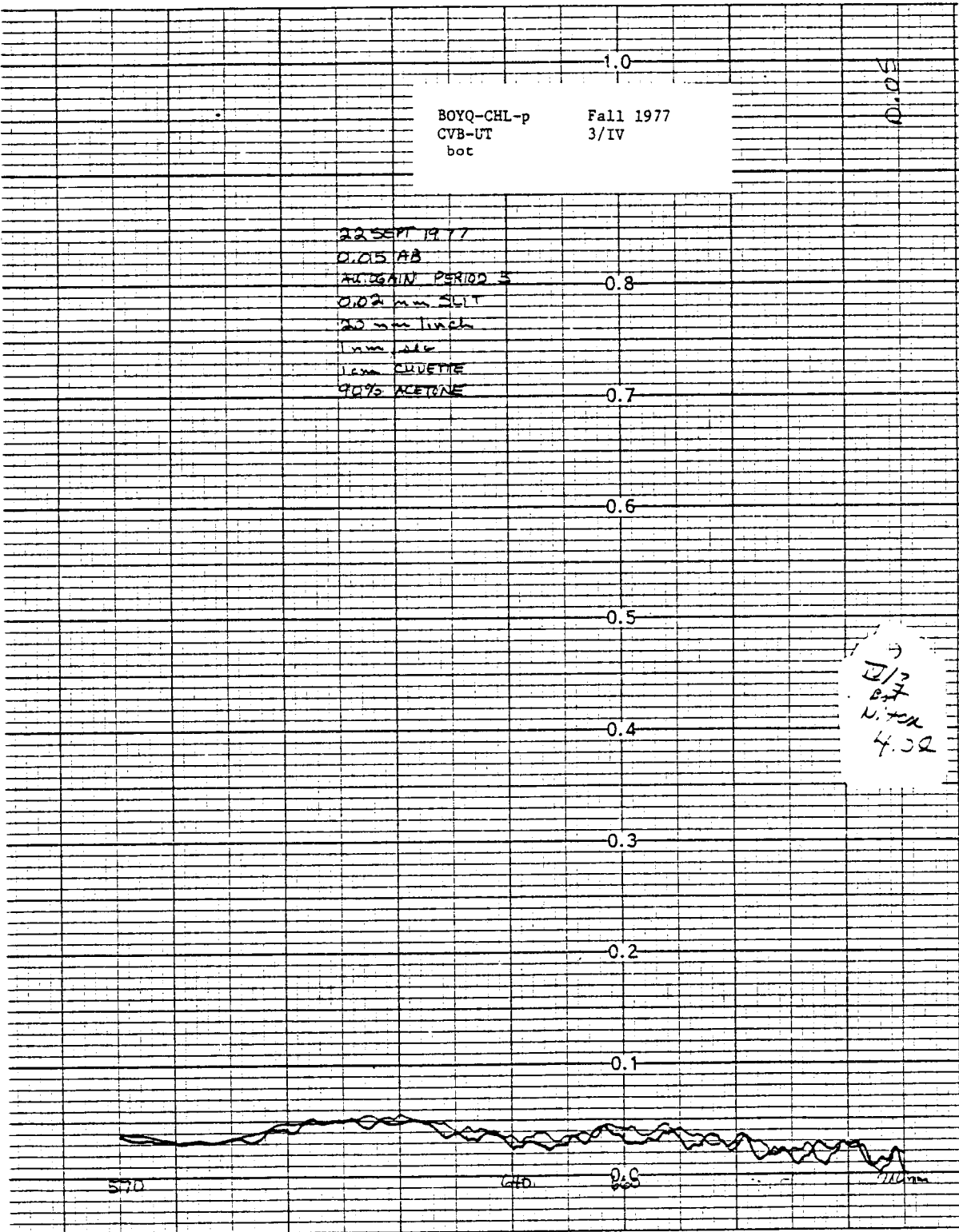


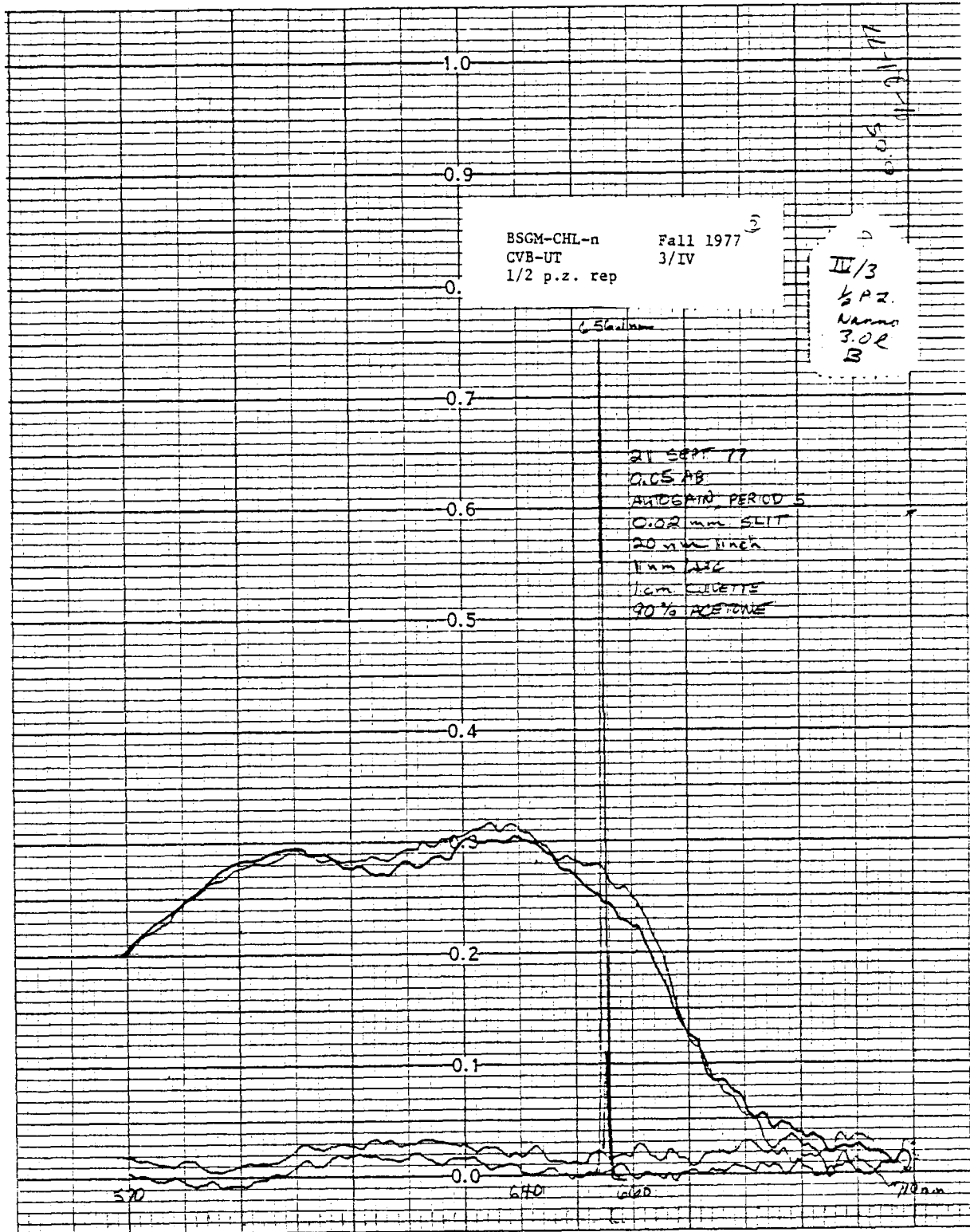


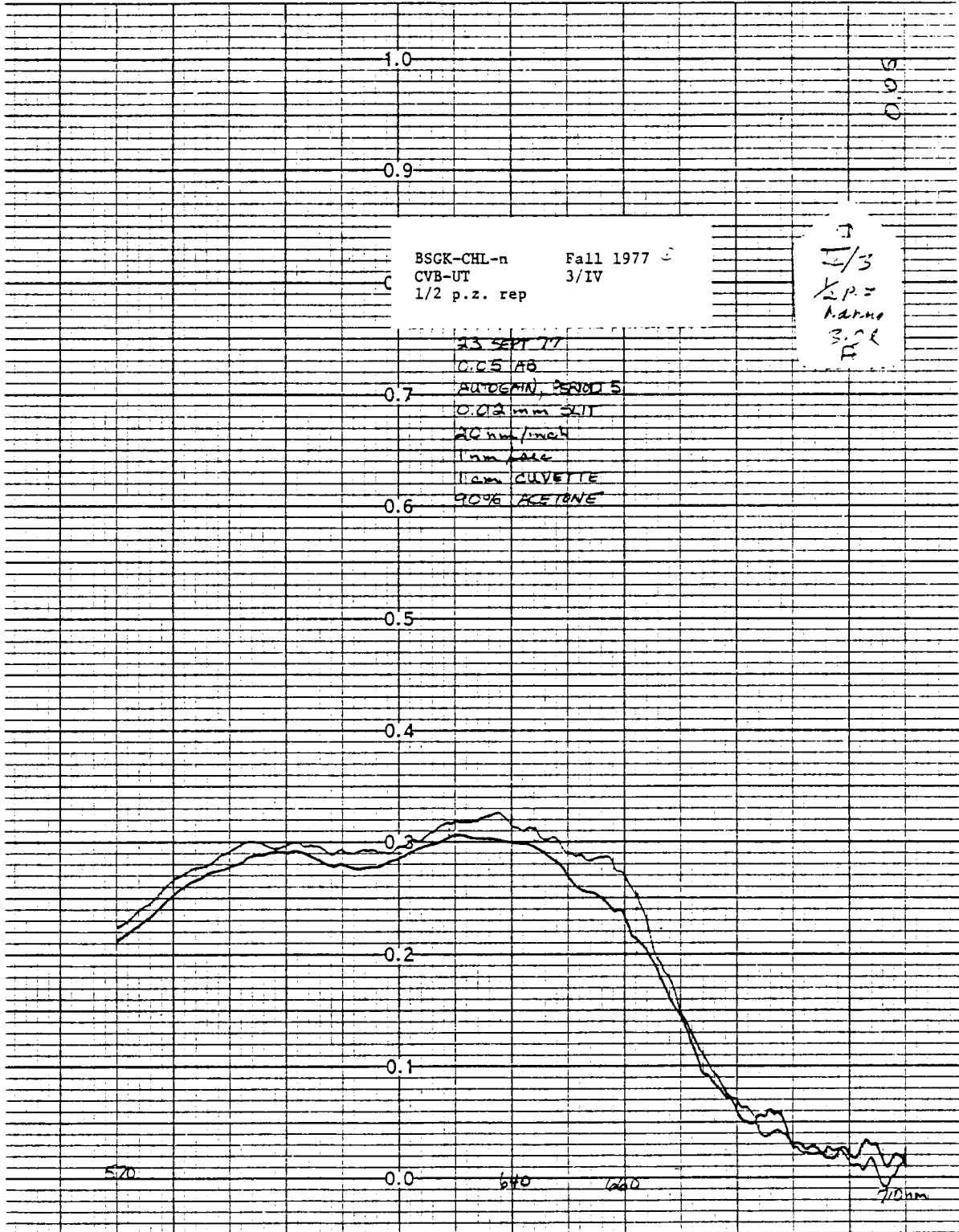














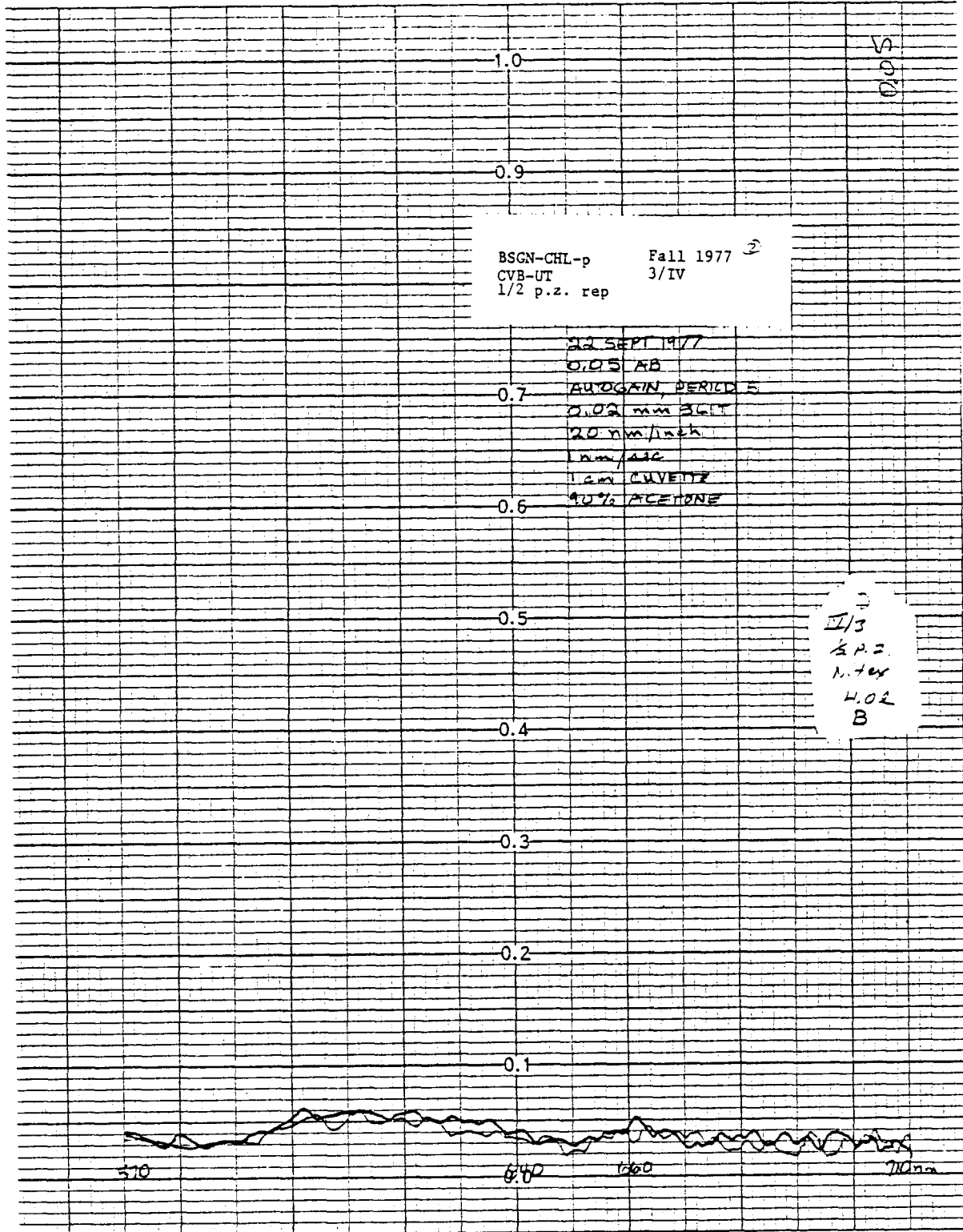
5010

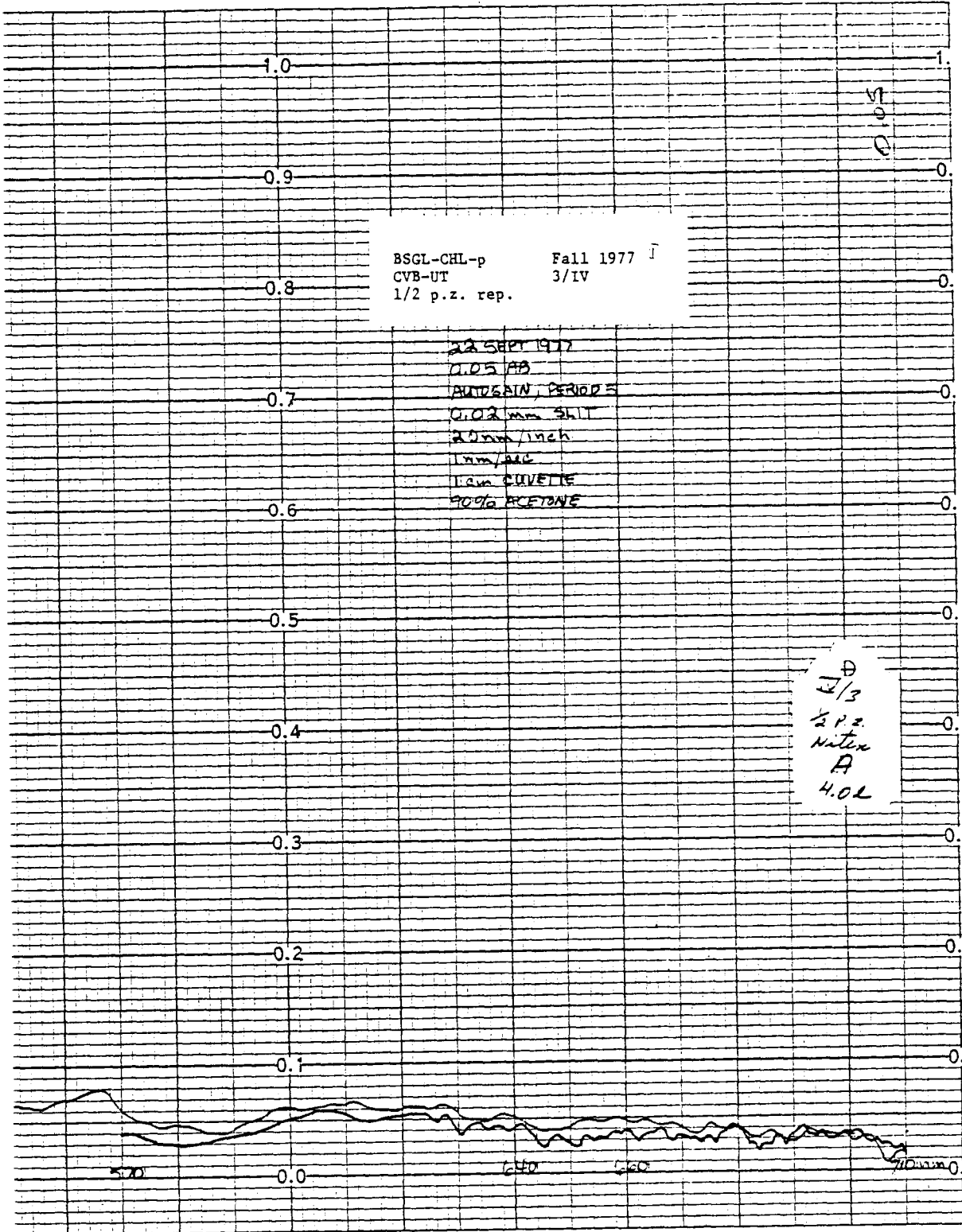
BOYP-CHL-n Fall 1977  
CVB-UT 3/IV  
1/2 p.z.

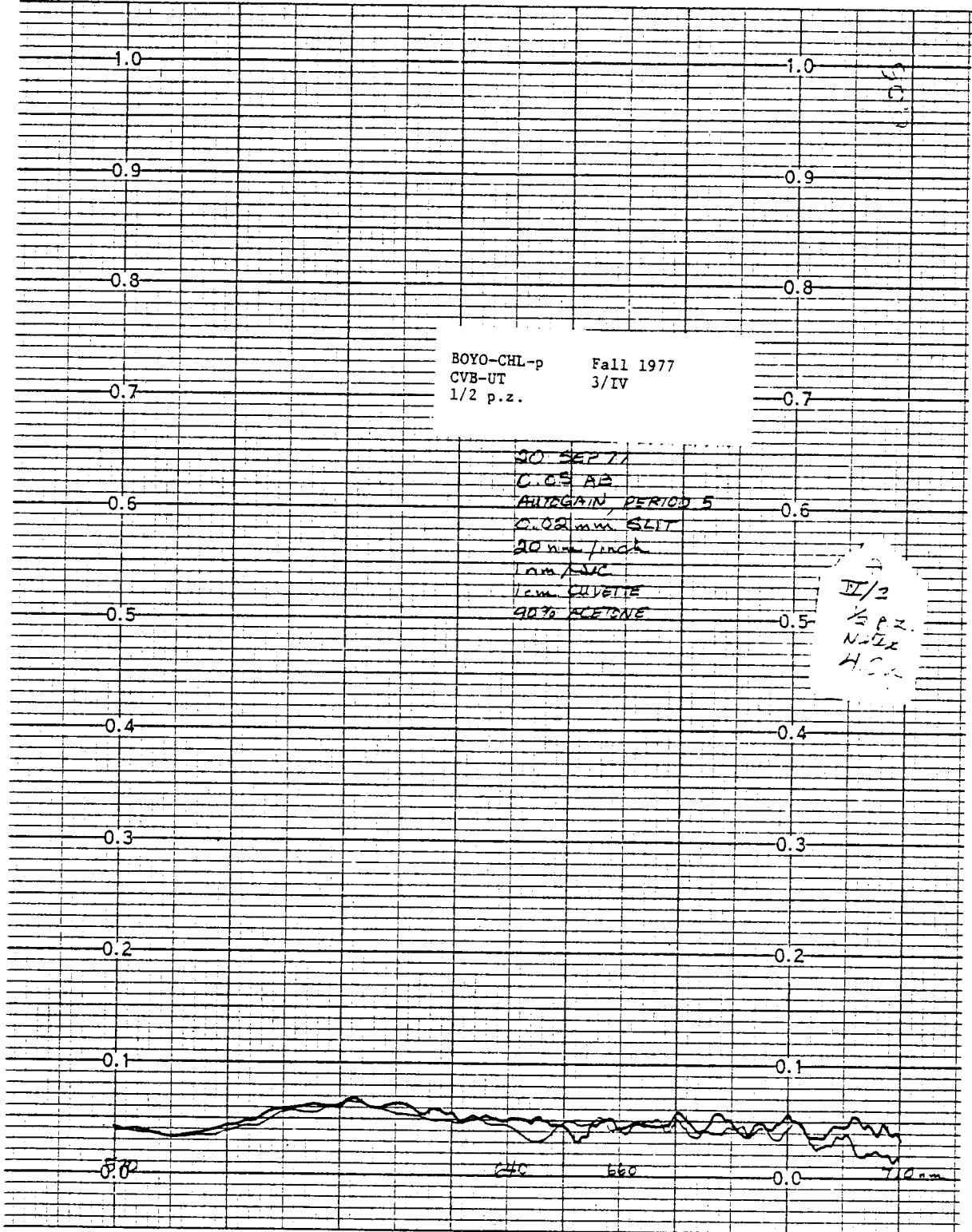
20 SEP 77  
0.05 AB  
AUTOCALIN, PERIOD 5  
0.02 mm SLIT  
20 mm / inch  
1 mm / sec  
1 cm CUVETTE  
70000.5 ACETONE

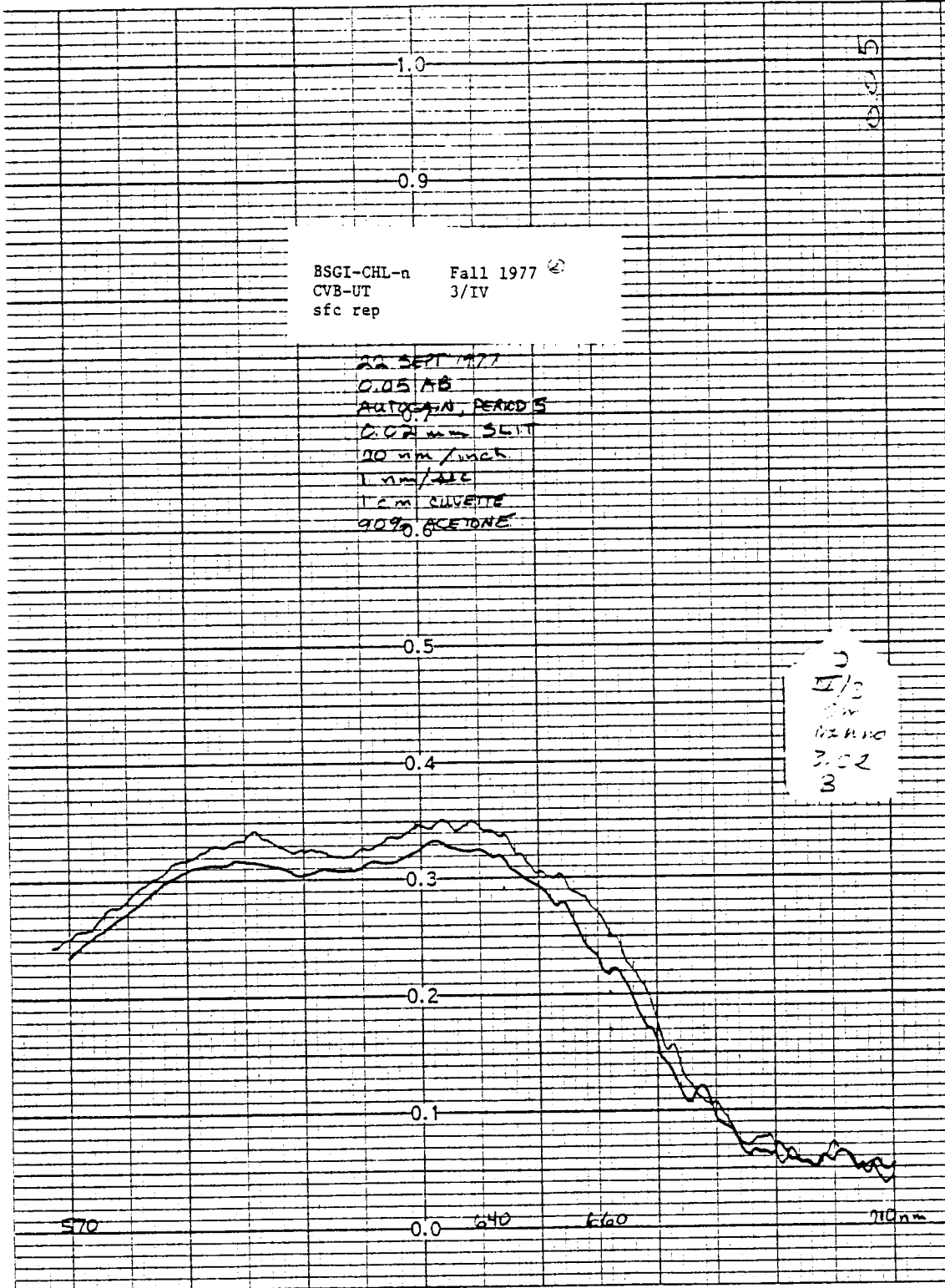
→  
I/3  
K.P.2  
1/2 mm  
3.0 L

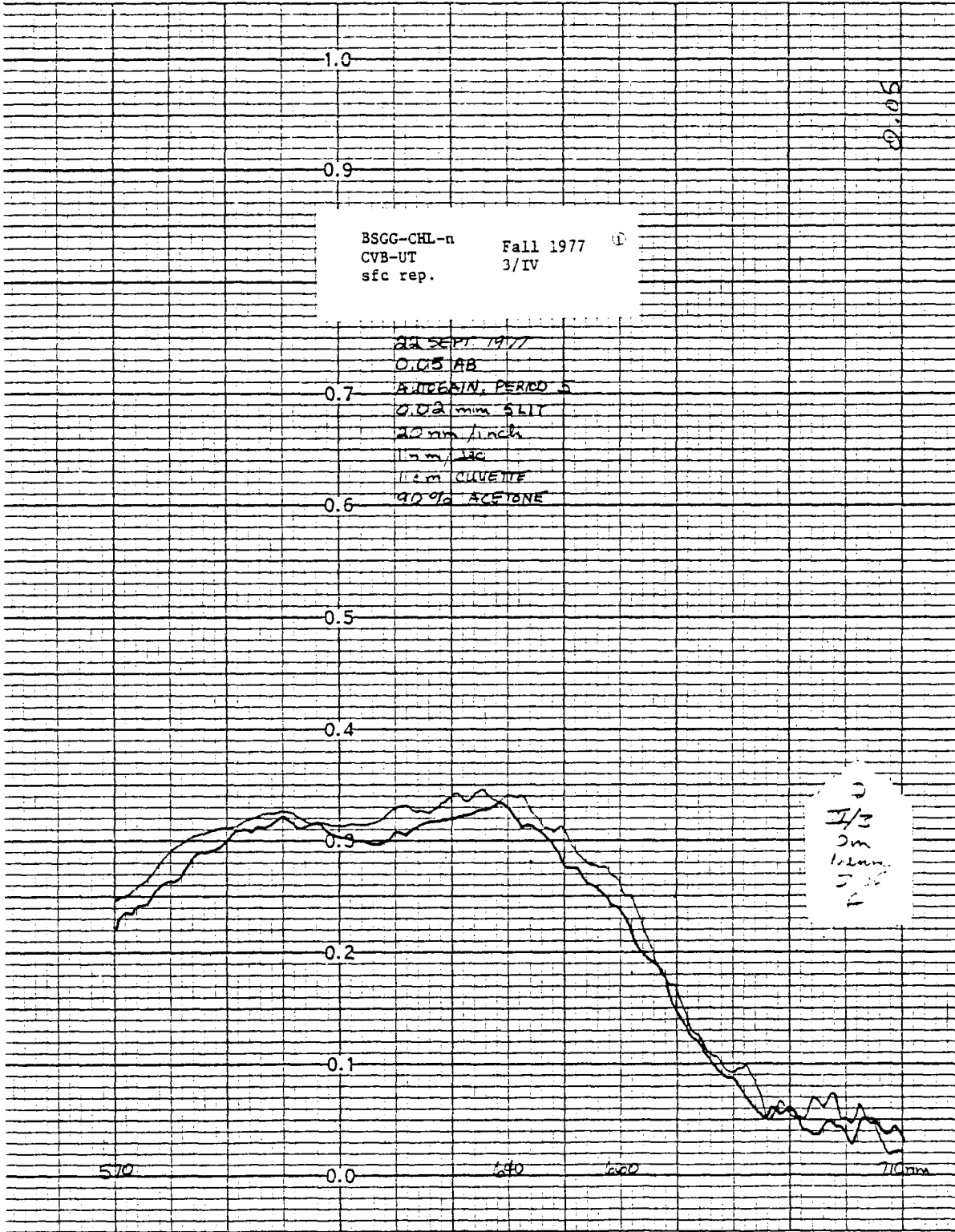


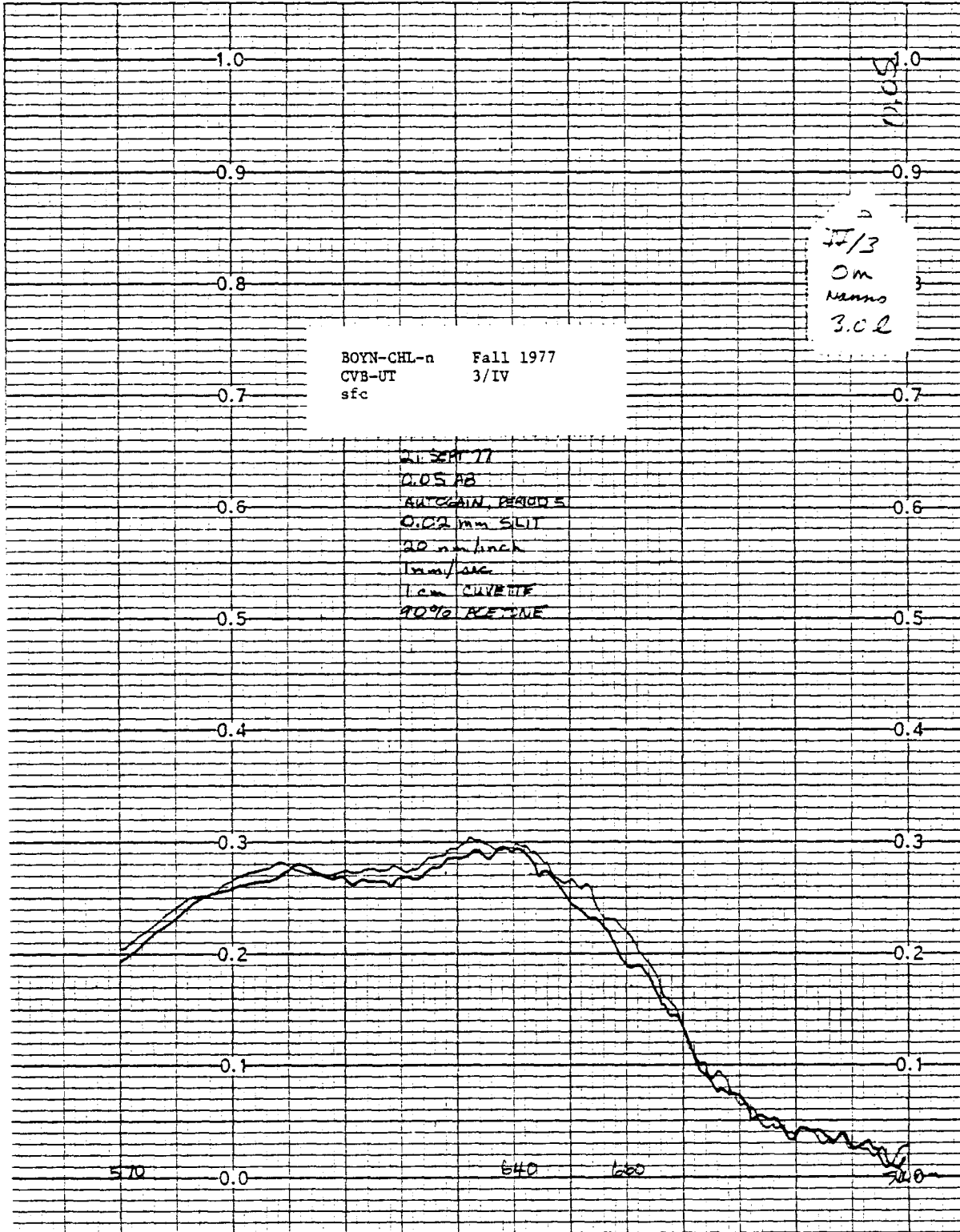


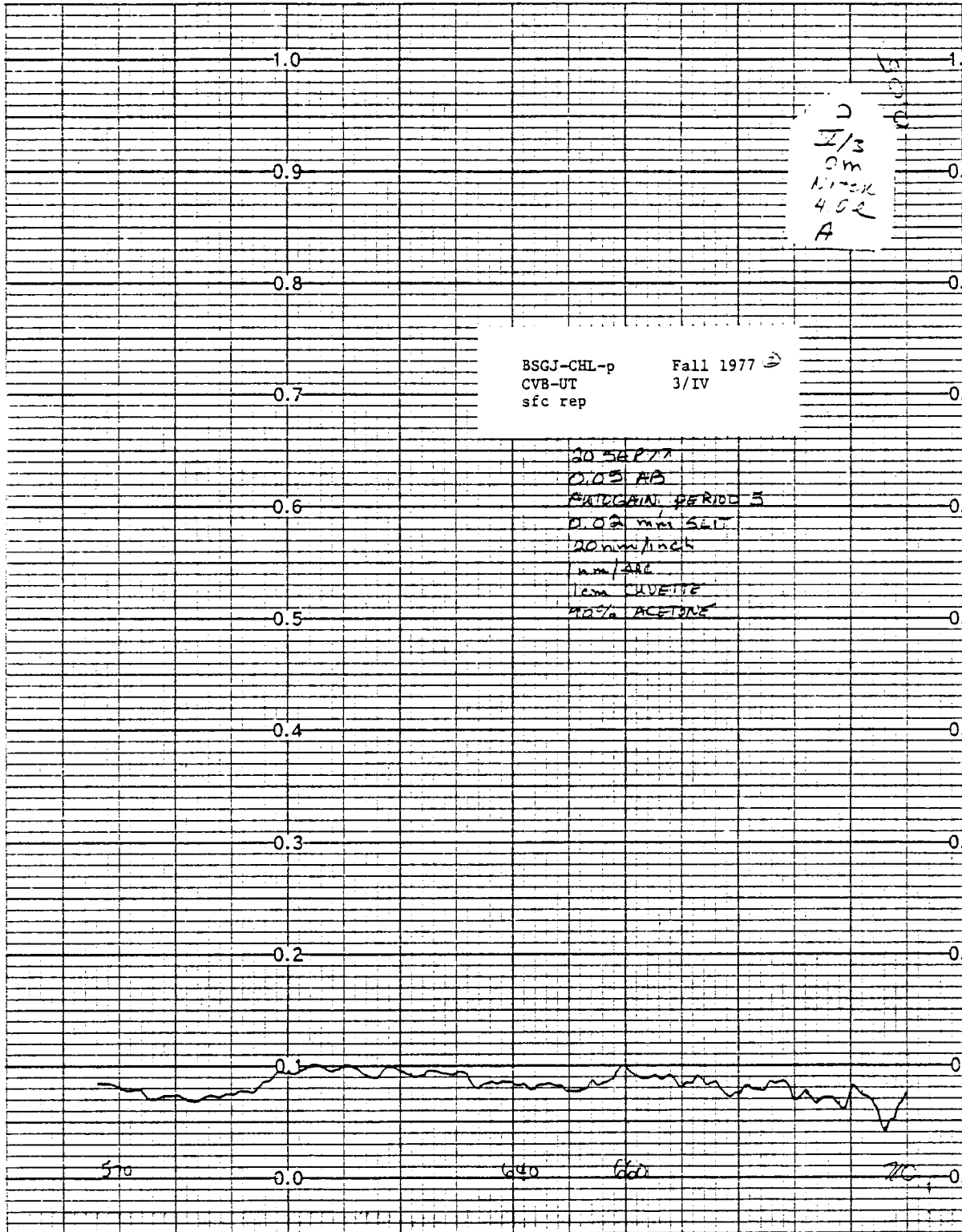




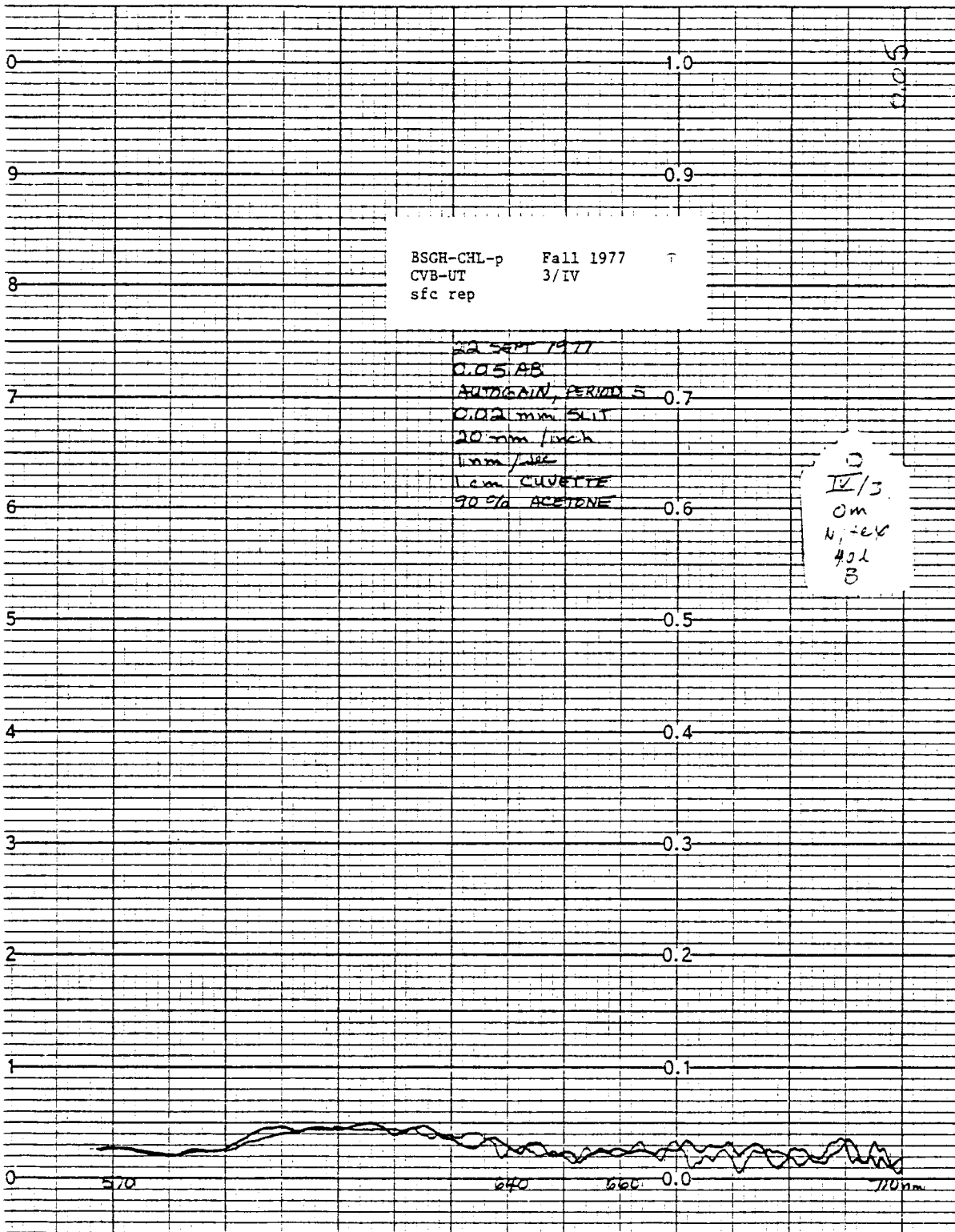


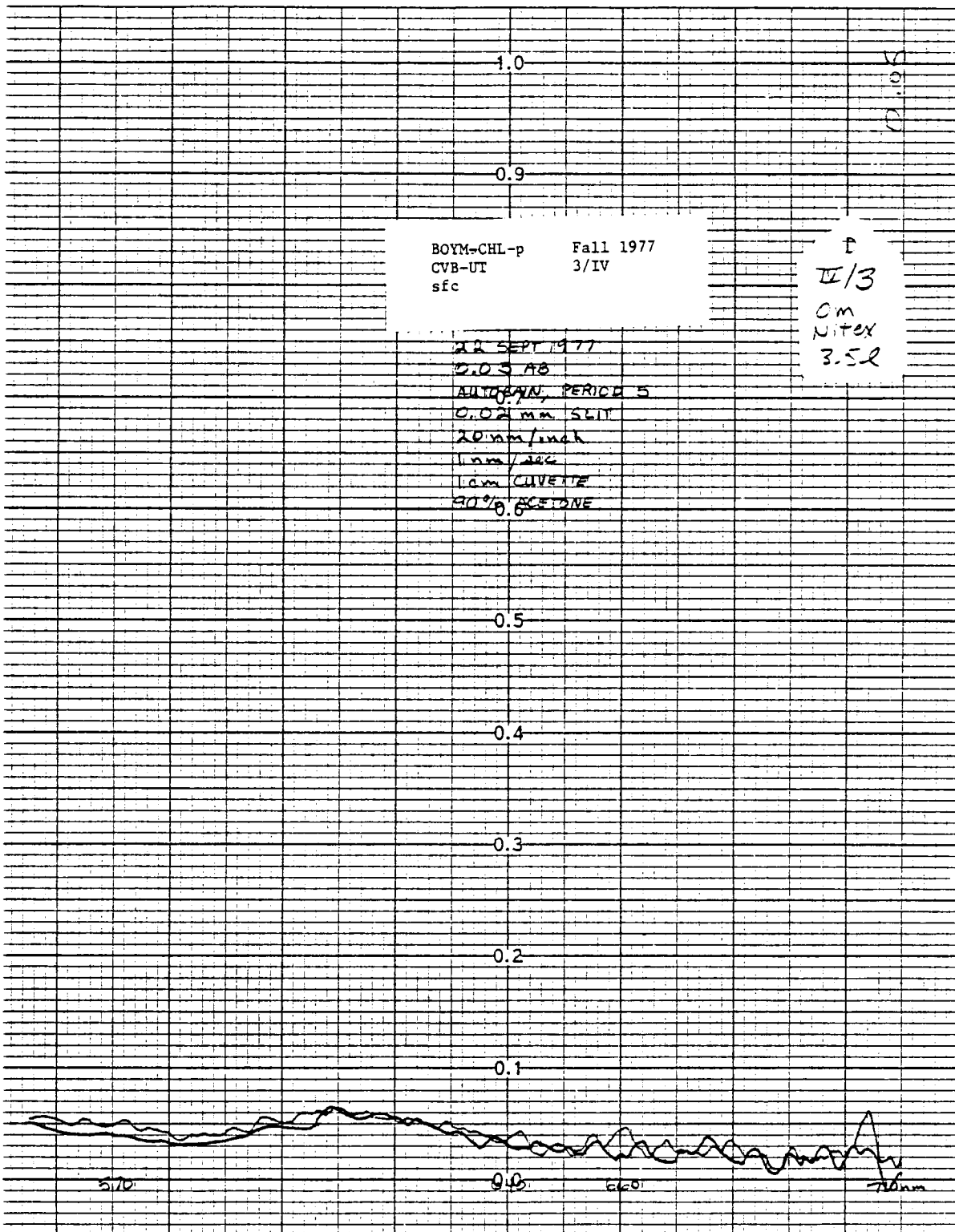


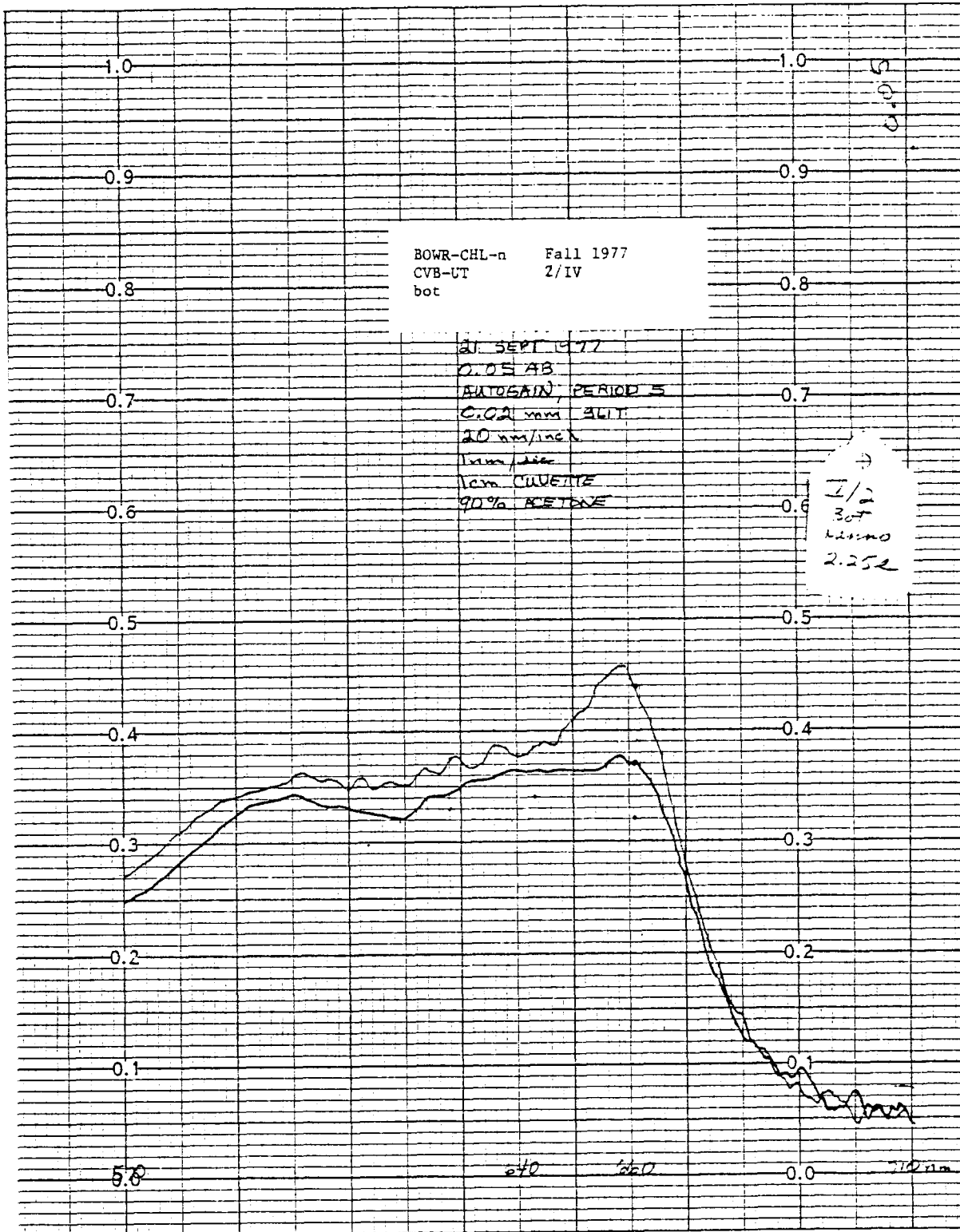


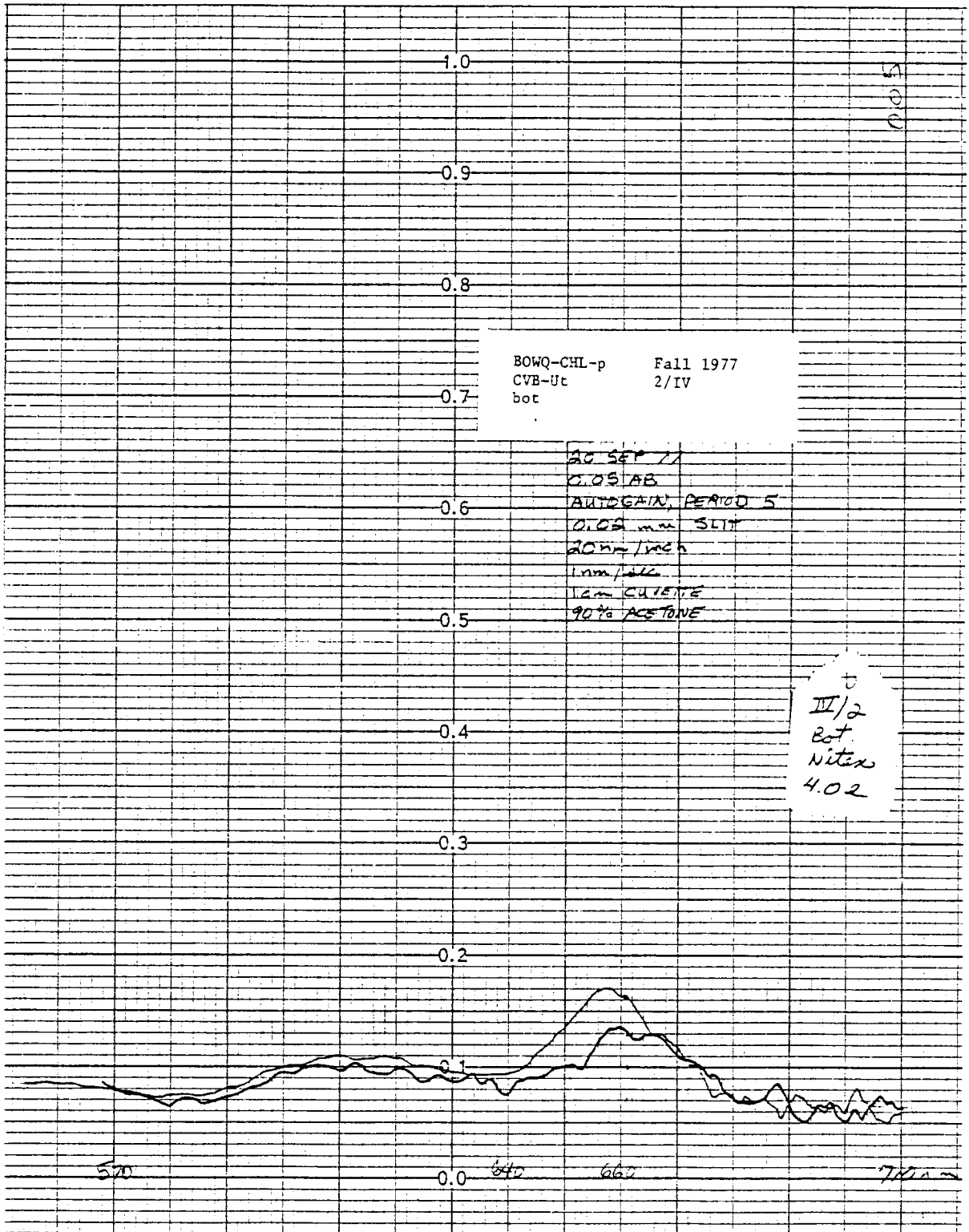




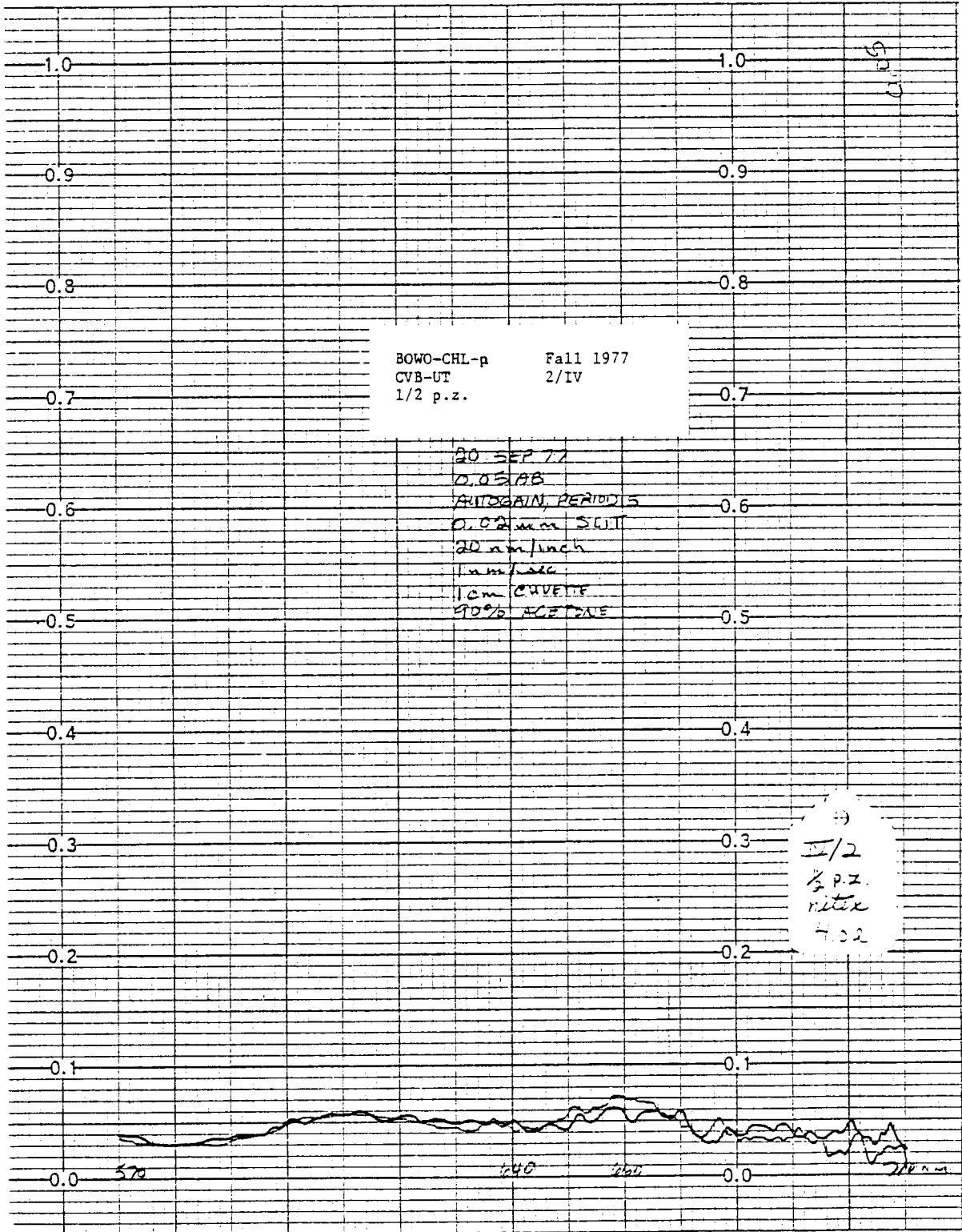








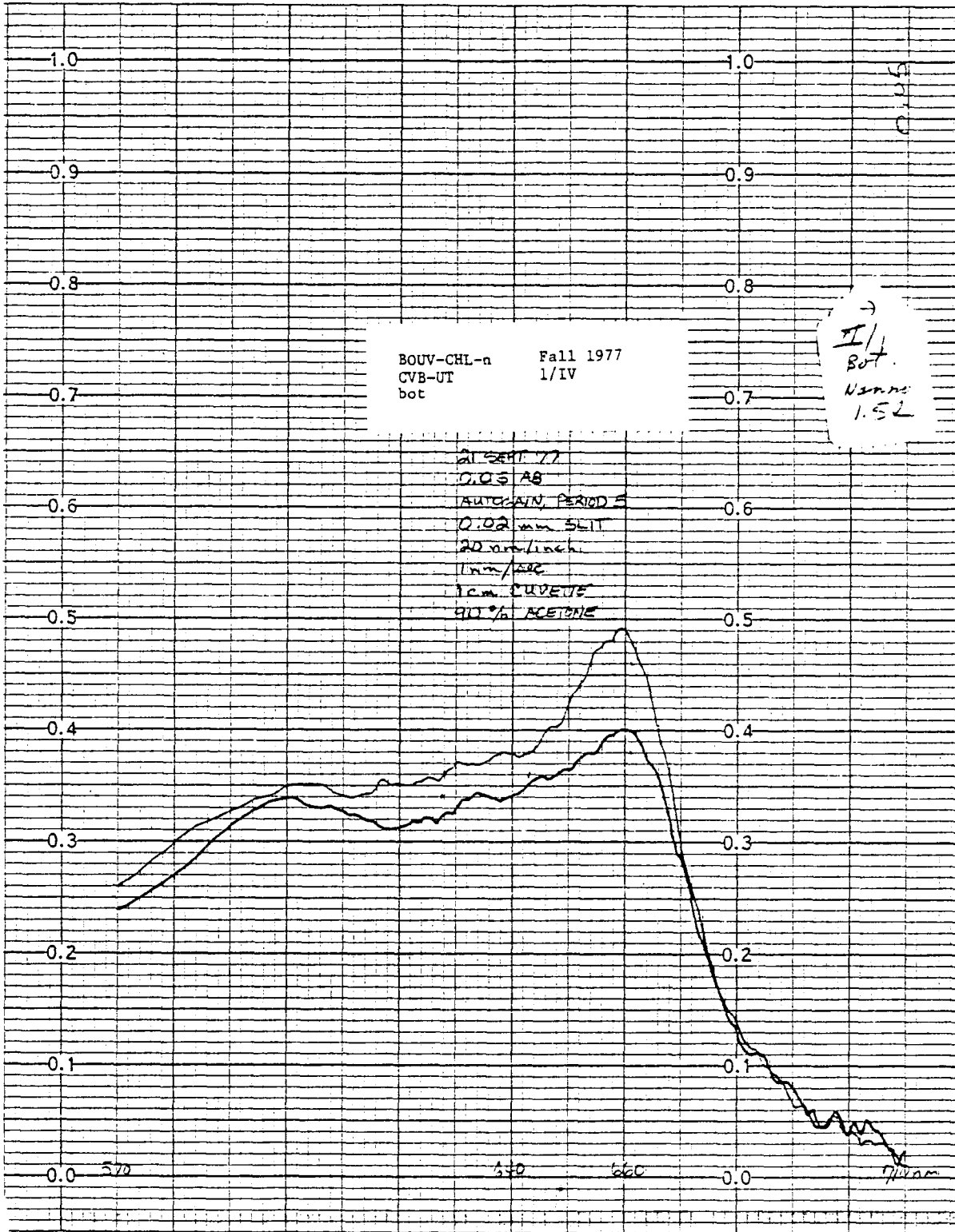


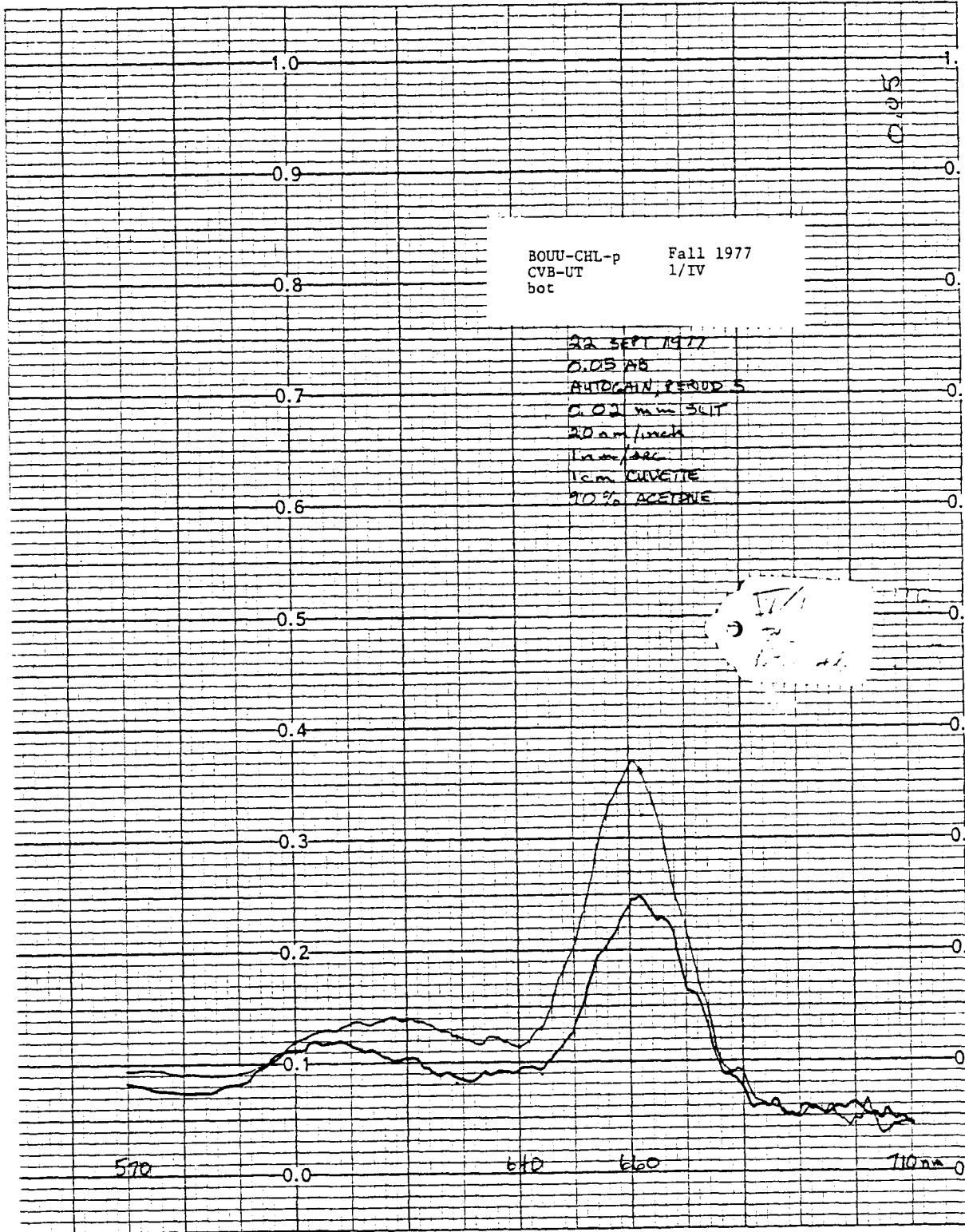


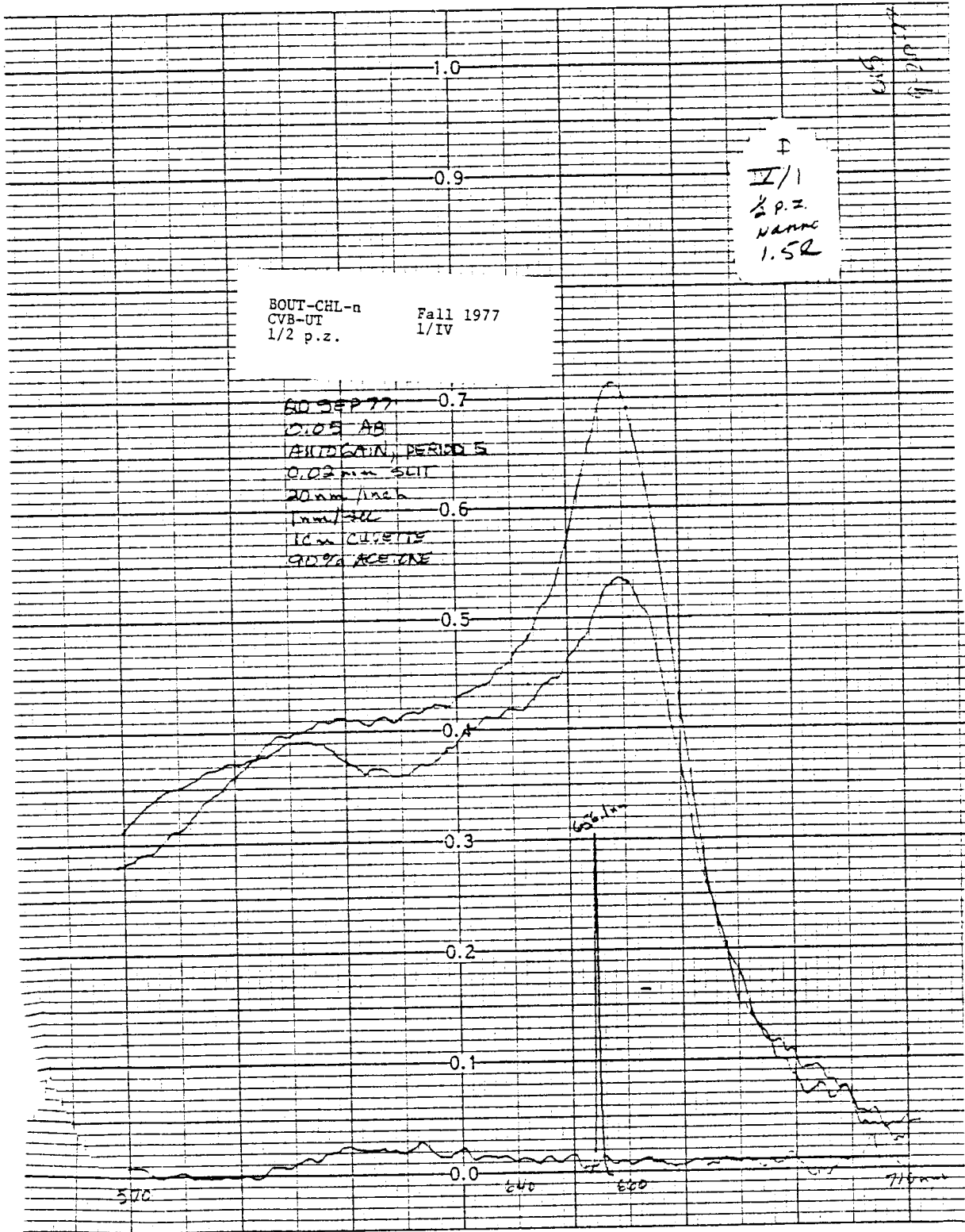


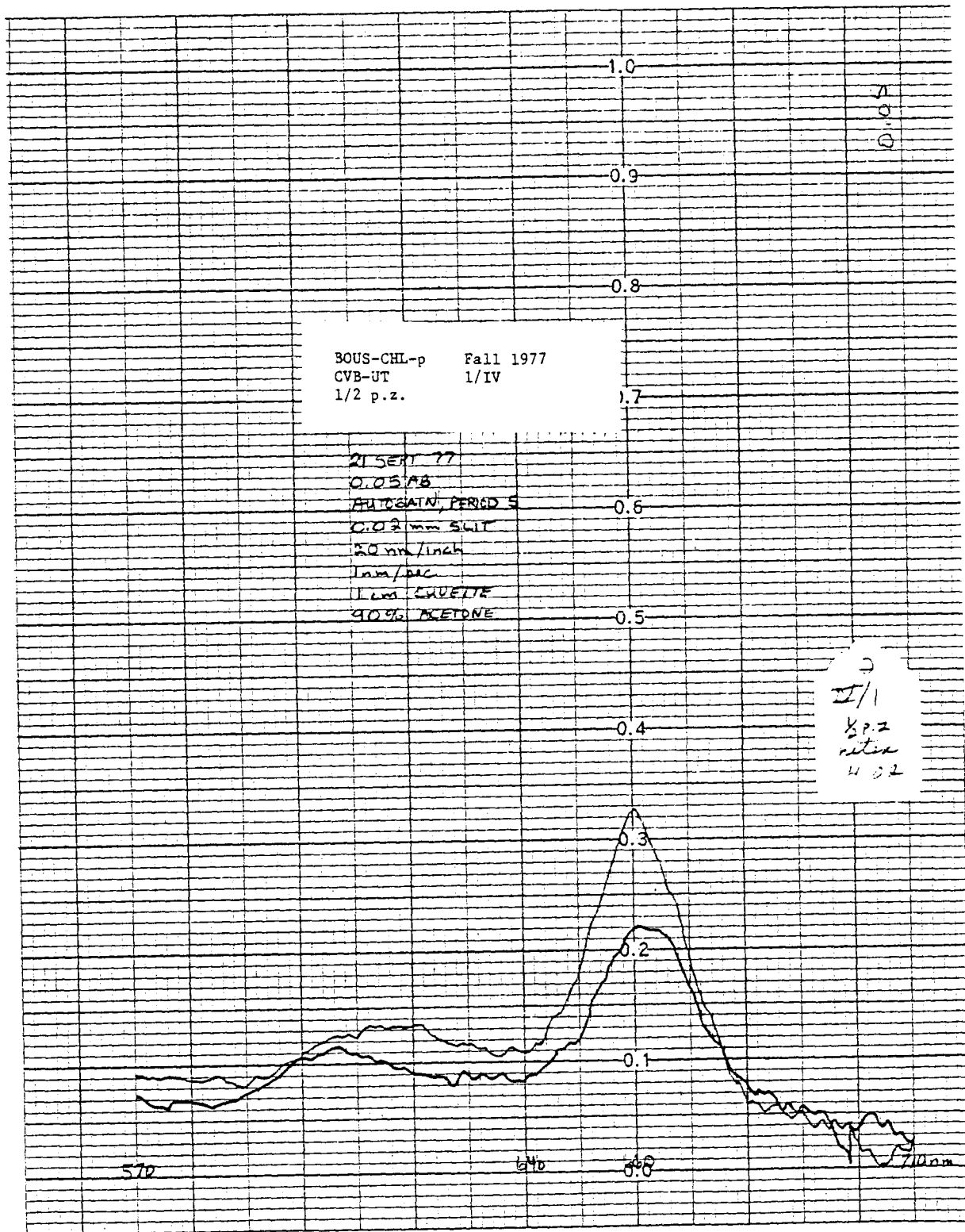


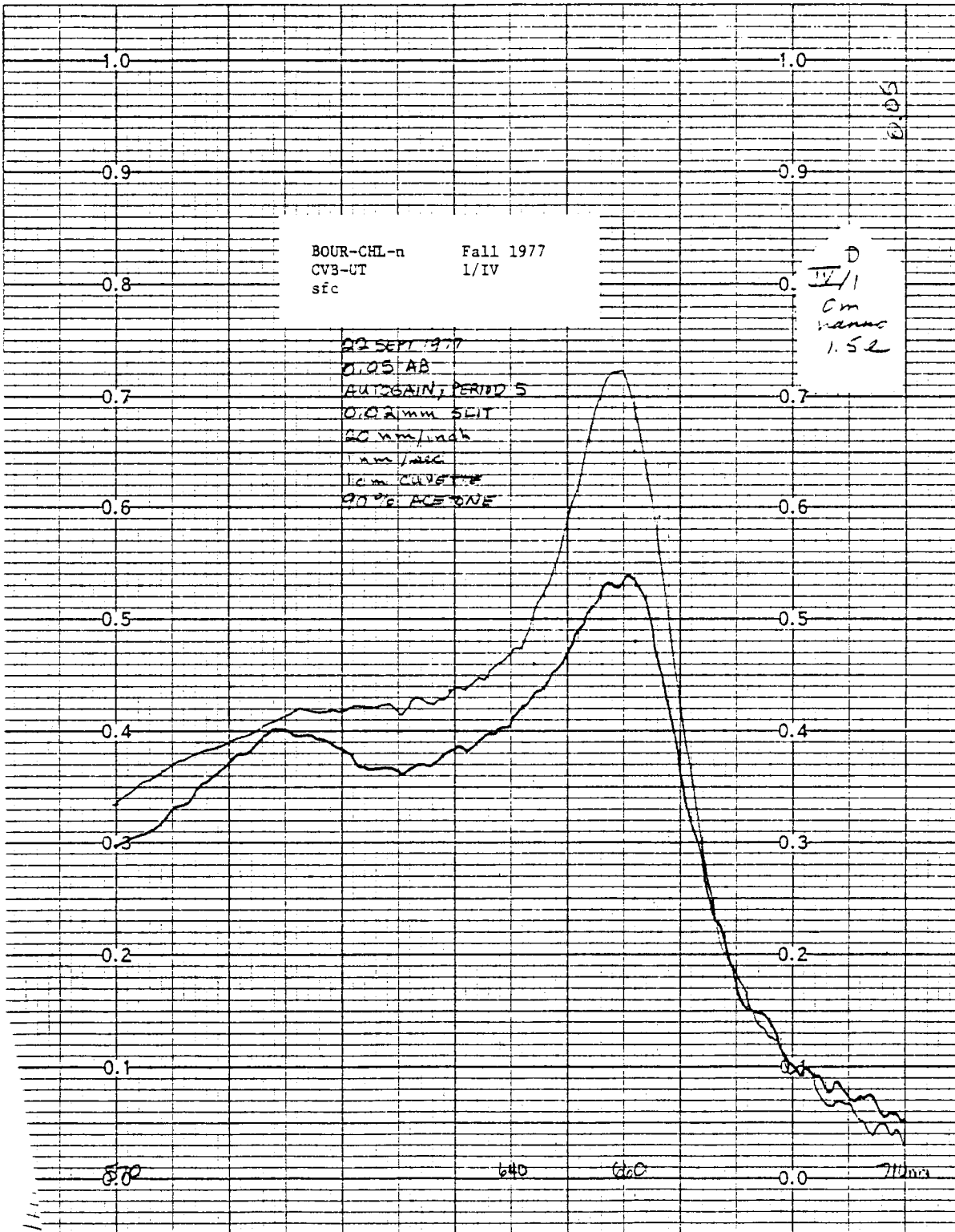












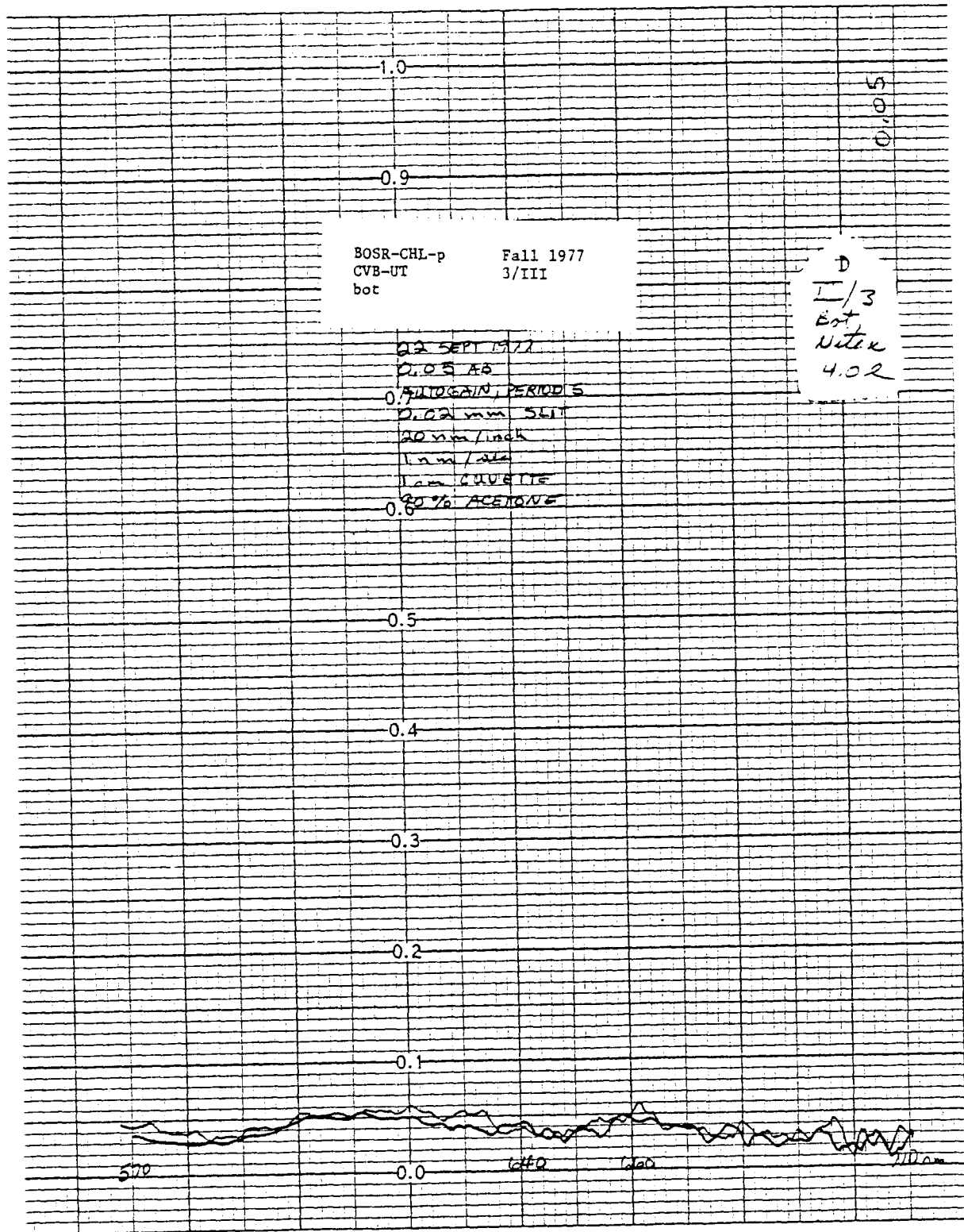


BOSS-CHL-n Fall 1977  
CVB-UT 3/III  
bot

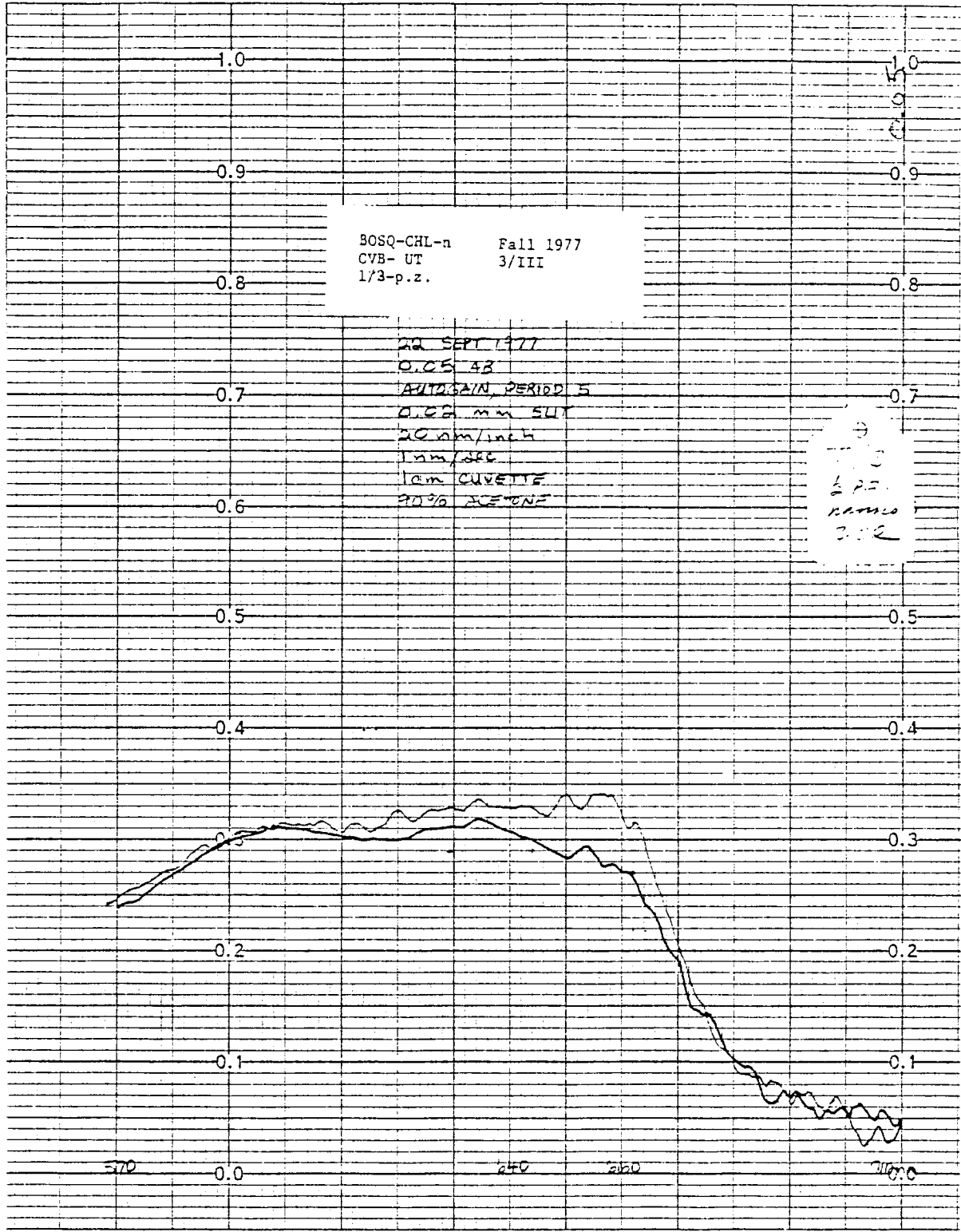
30 SEP 77  
0.05 AB  
AUTOGAIN PERIODS 0.6  
0.02 mm SLIT  
20 nm/inch  
1mm / SEC  
1cm CUVETTE  
90% XCEYNE 0.5

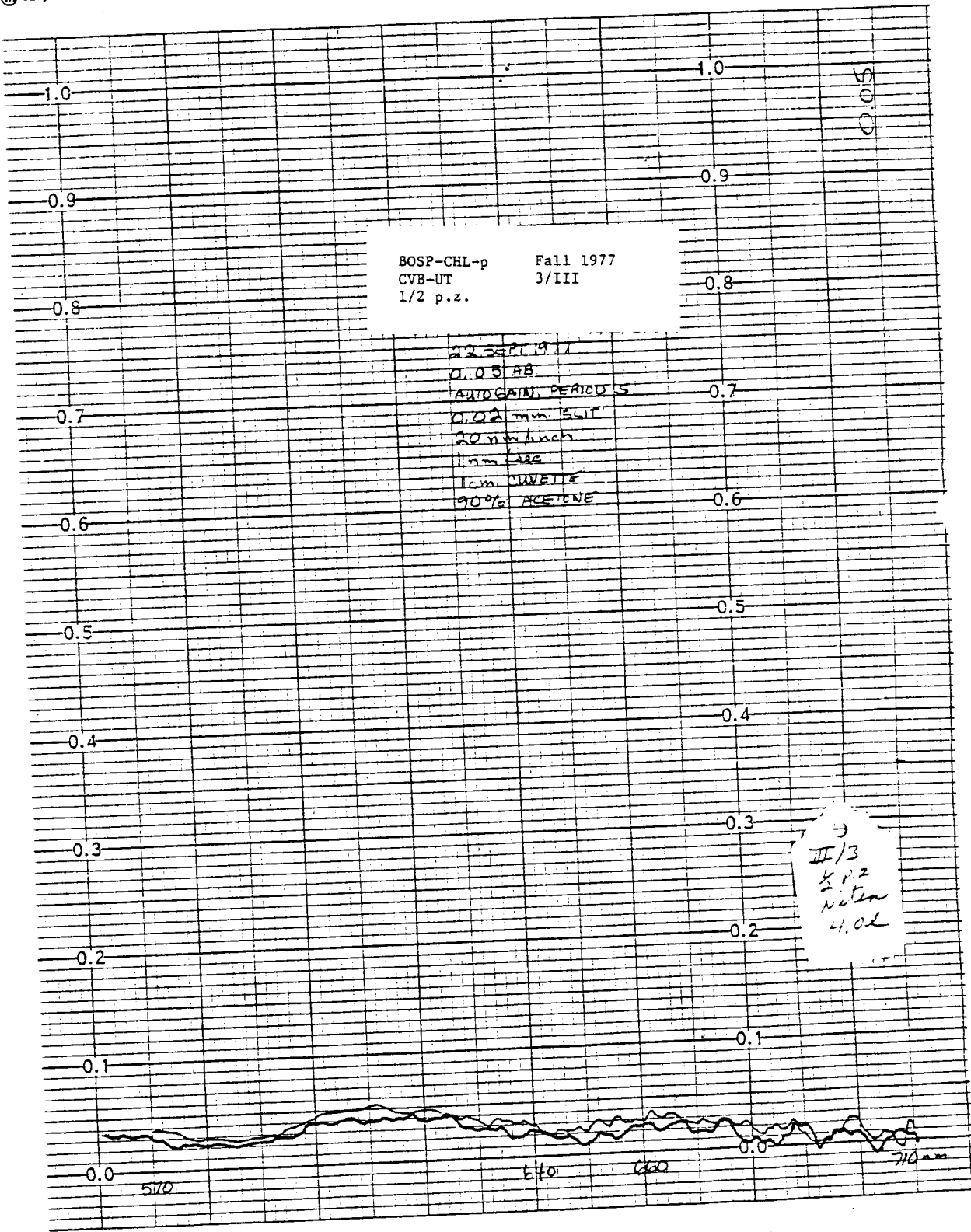
1 0  
- 3  
R<sub>07</sub>  
Kamen  
3.0K

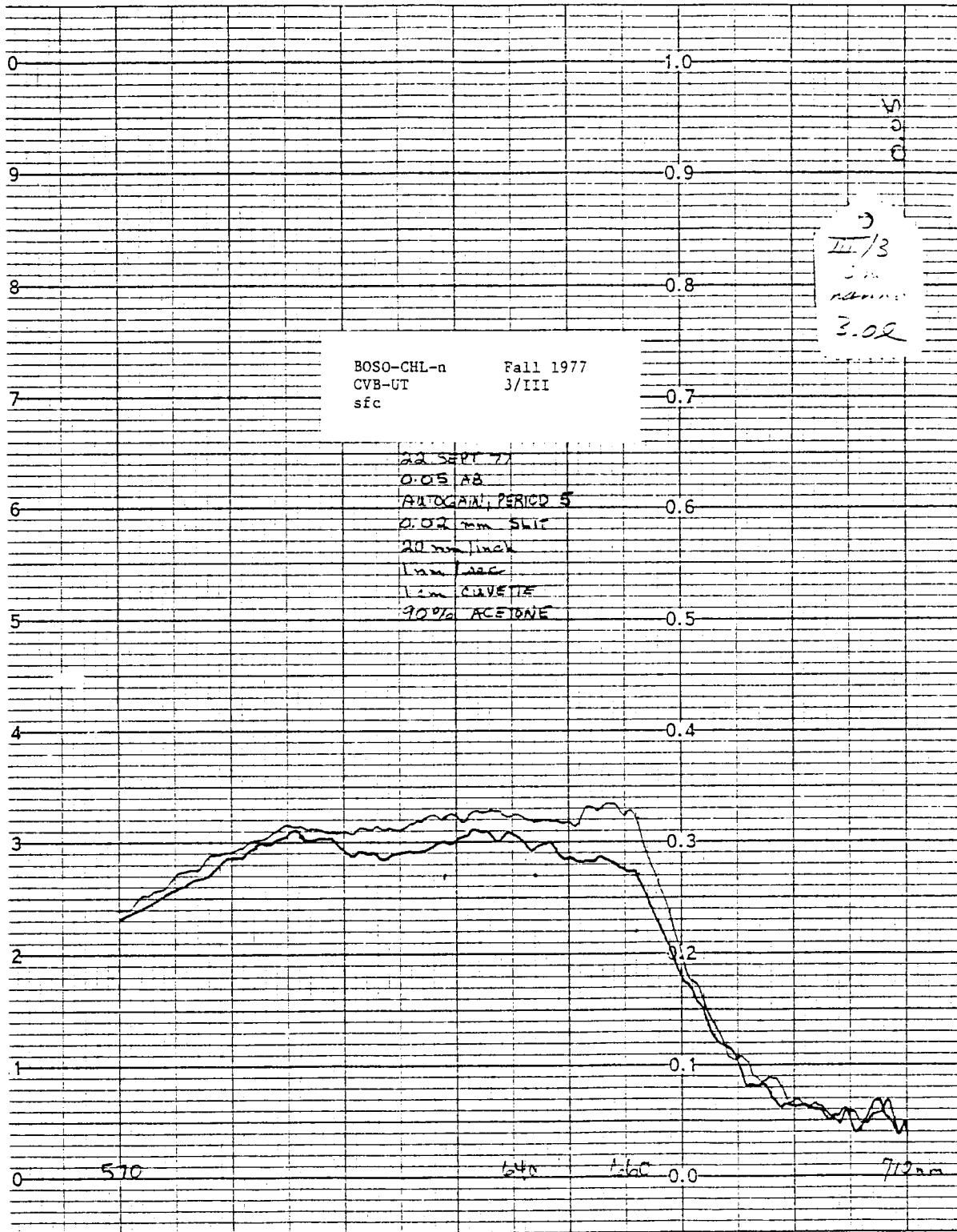


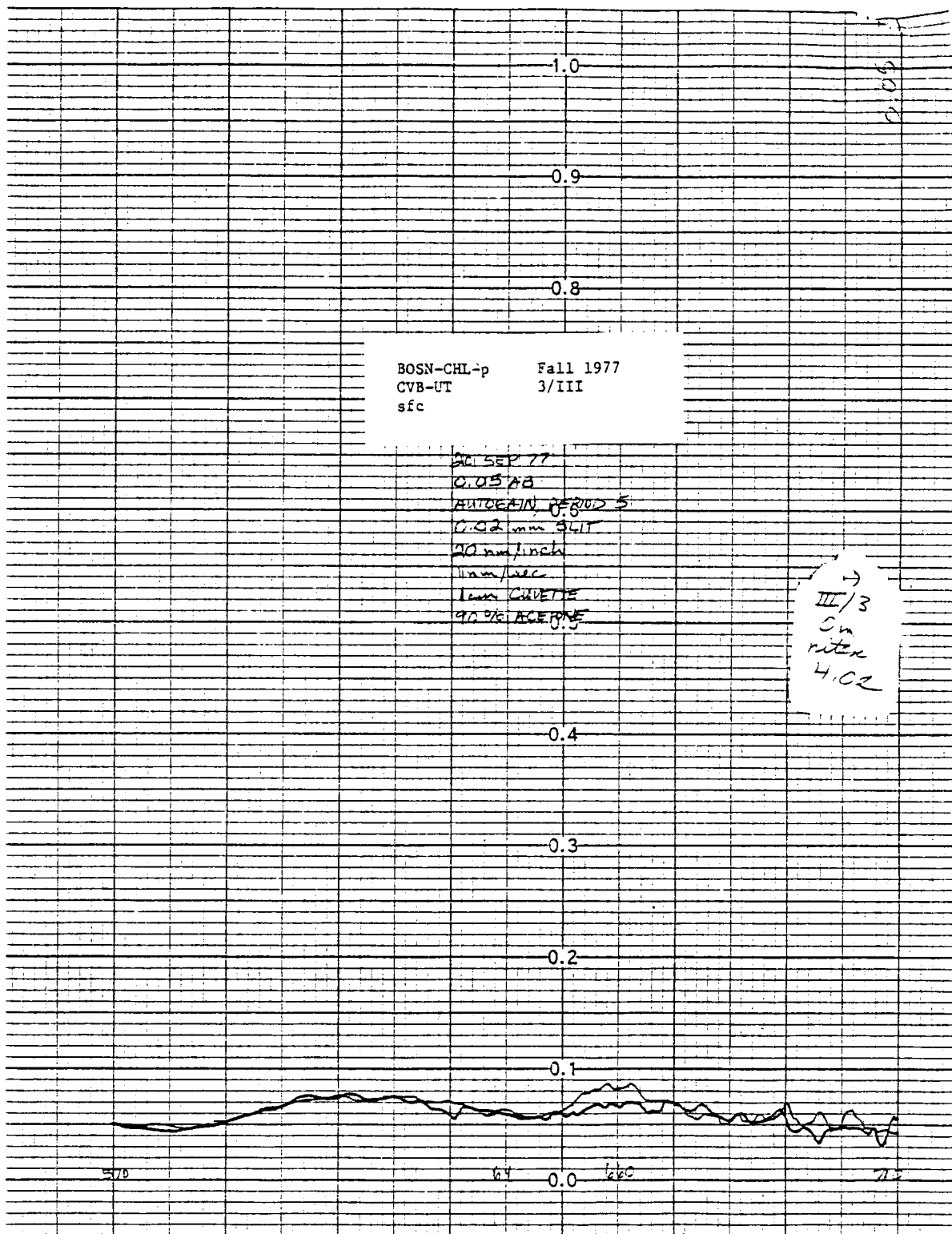




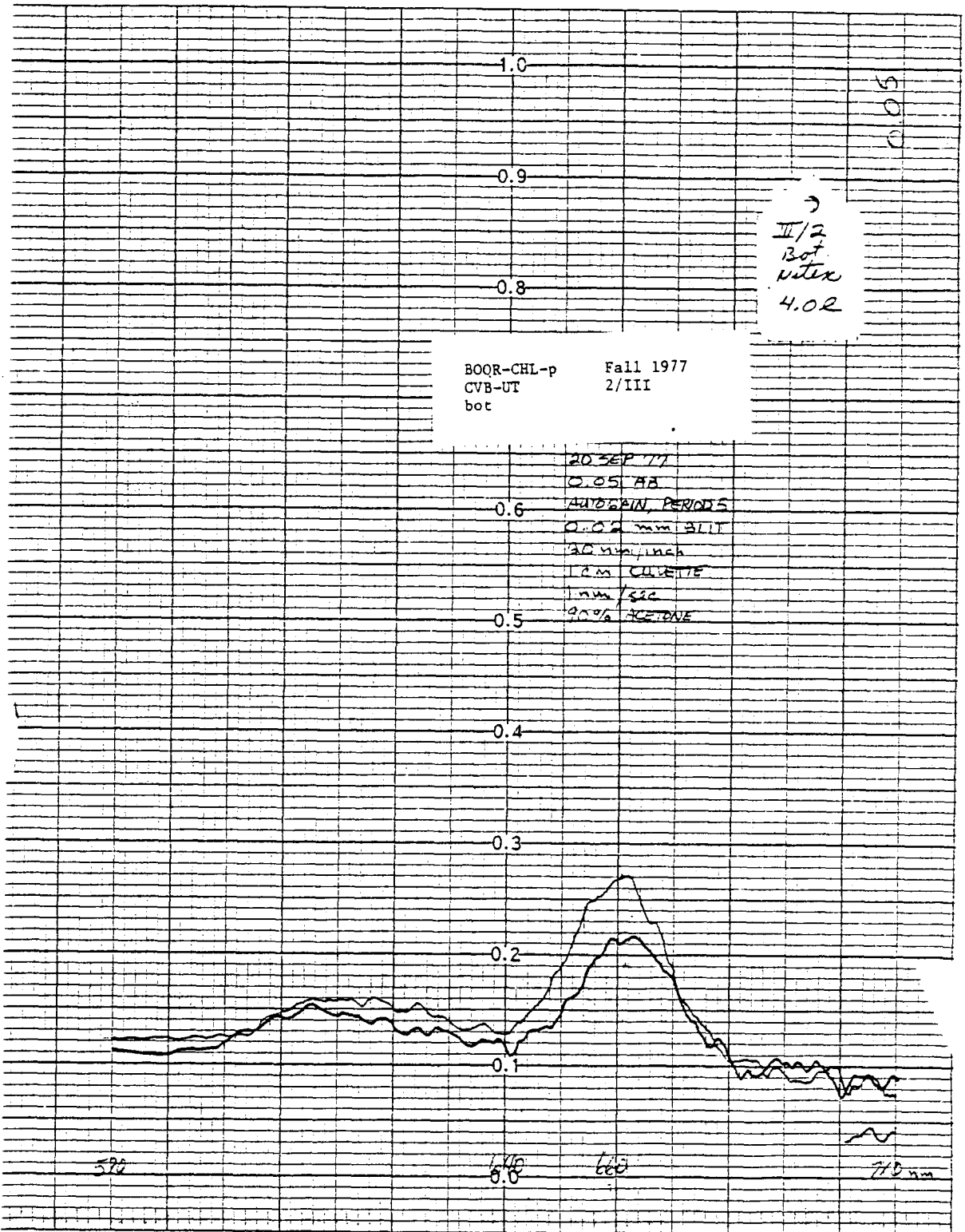


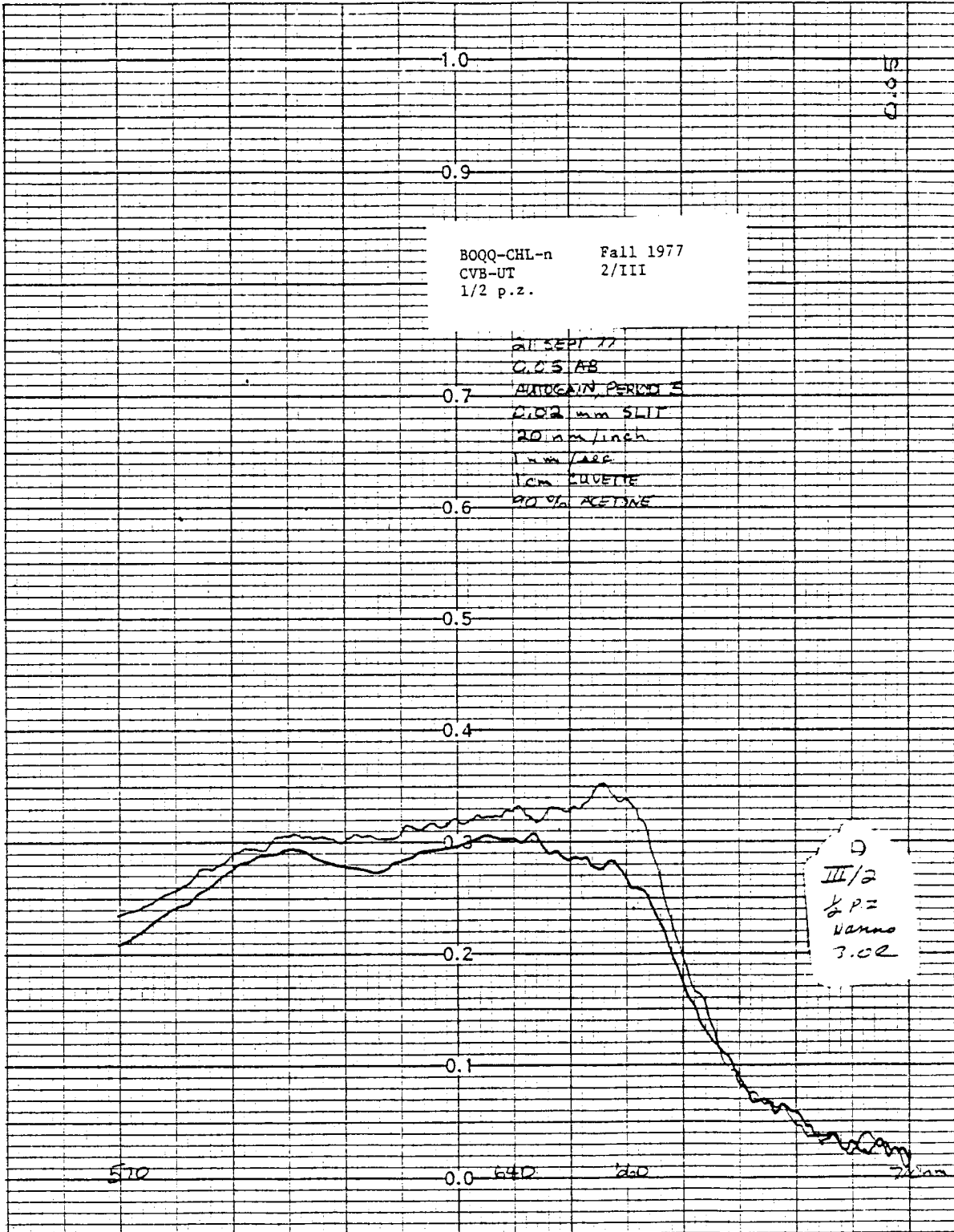


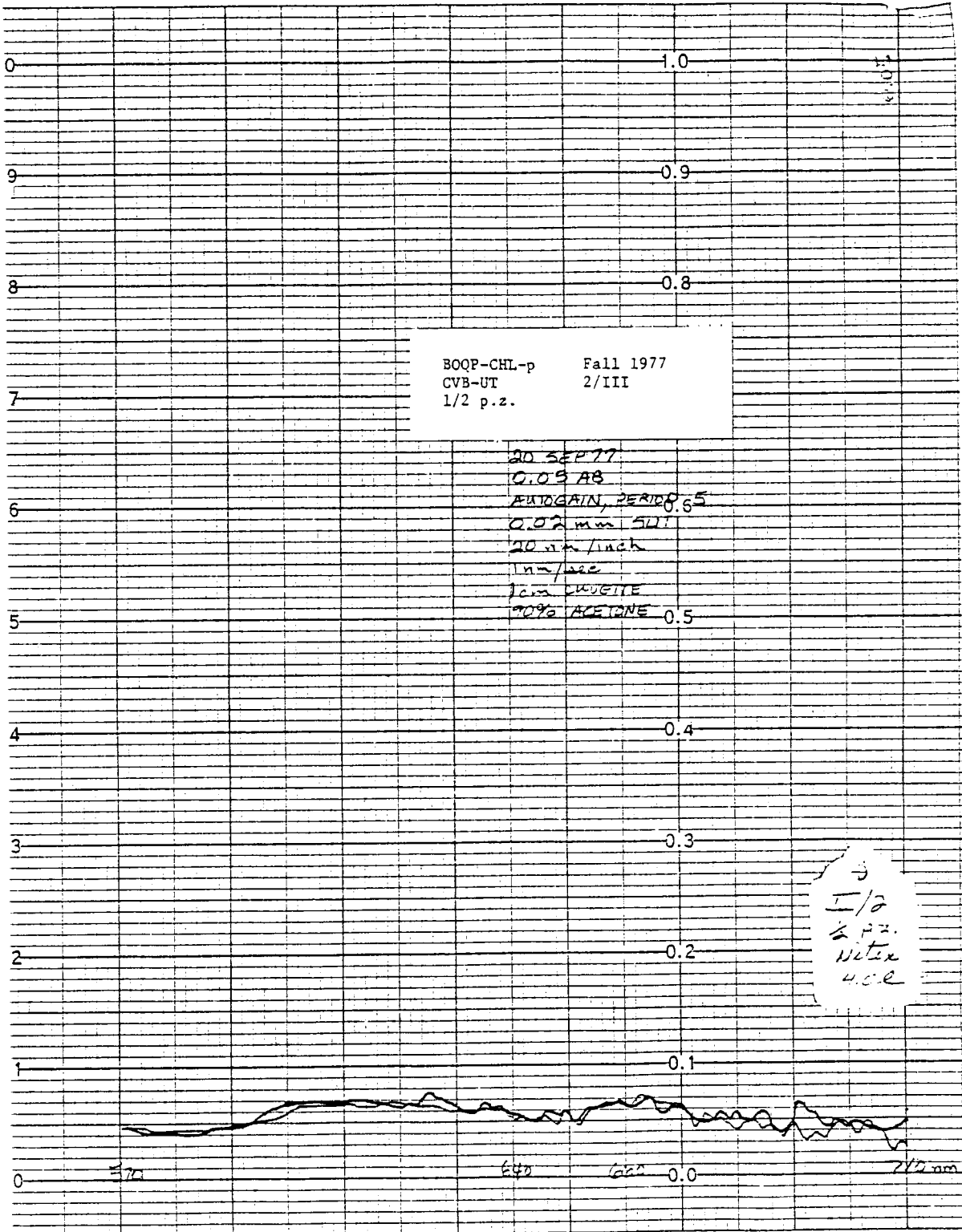




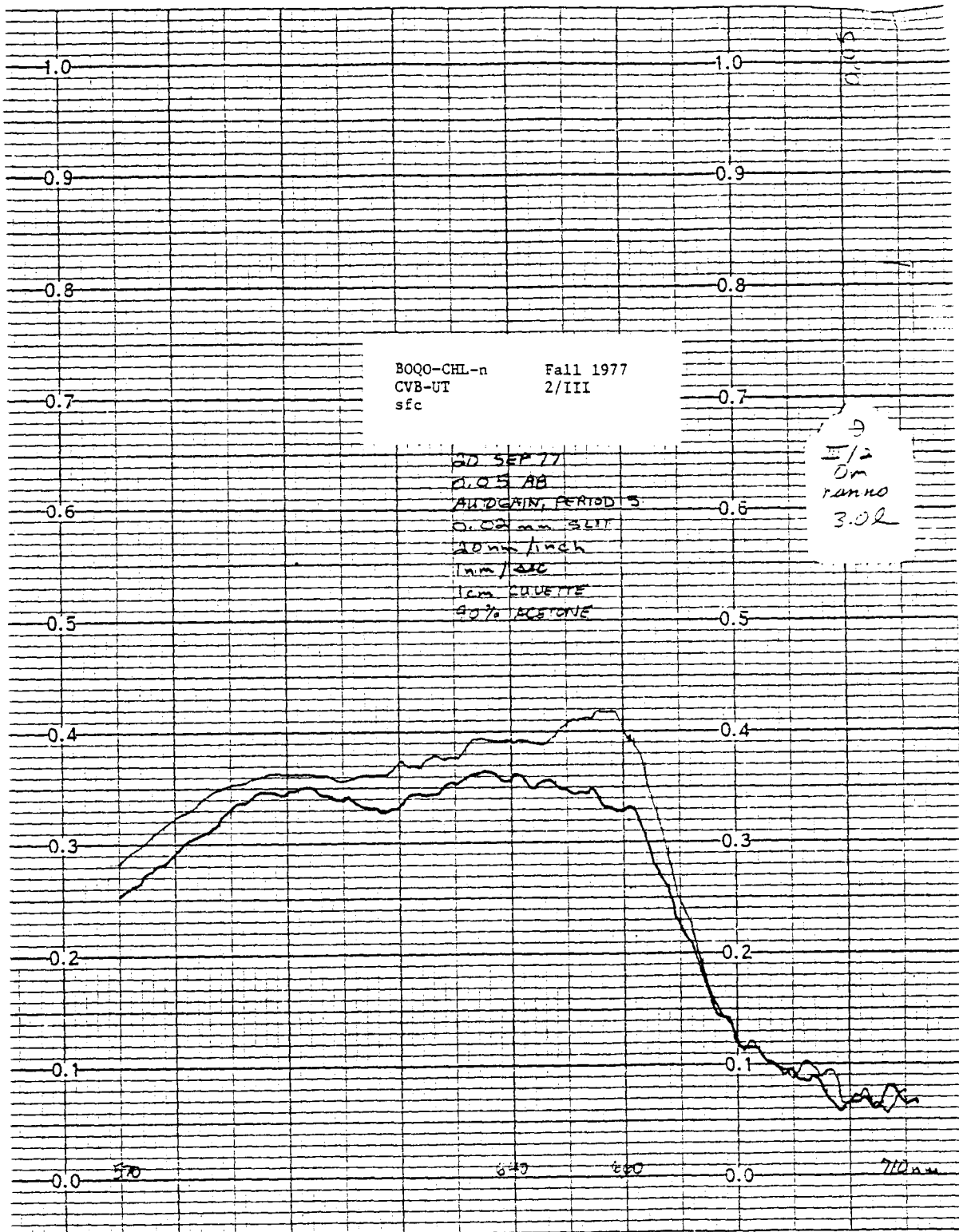


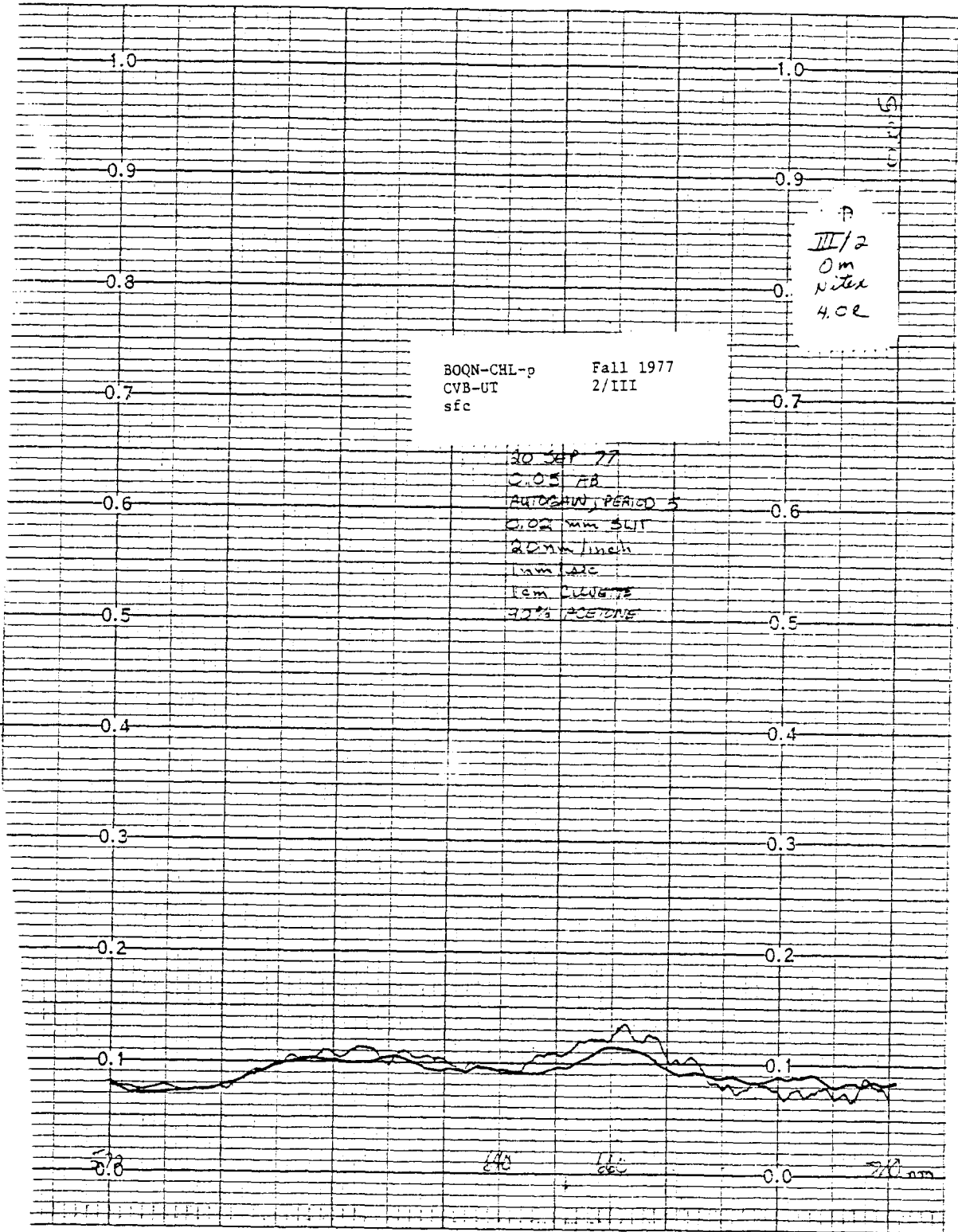






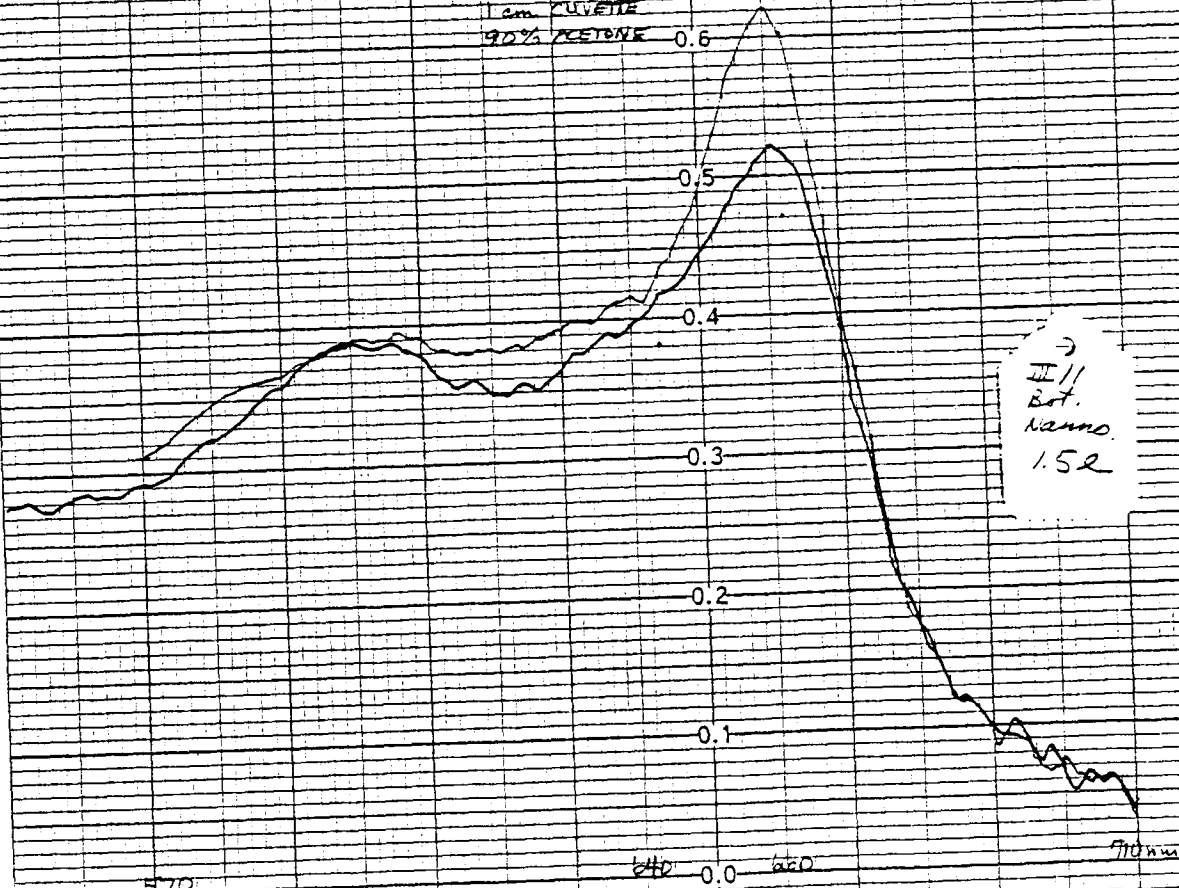






BOOW-CHL-n Fall 1977  
CVB-UT 1/III  
bot

23 SEPT 71  
0.05 AB  
AUXILIARY, PERIOD 0.5  
0.02 mm. SHT  
20 mm/min  
1 mm/sec  
1 cm CUVETTE  
90% XESTONE



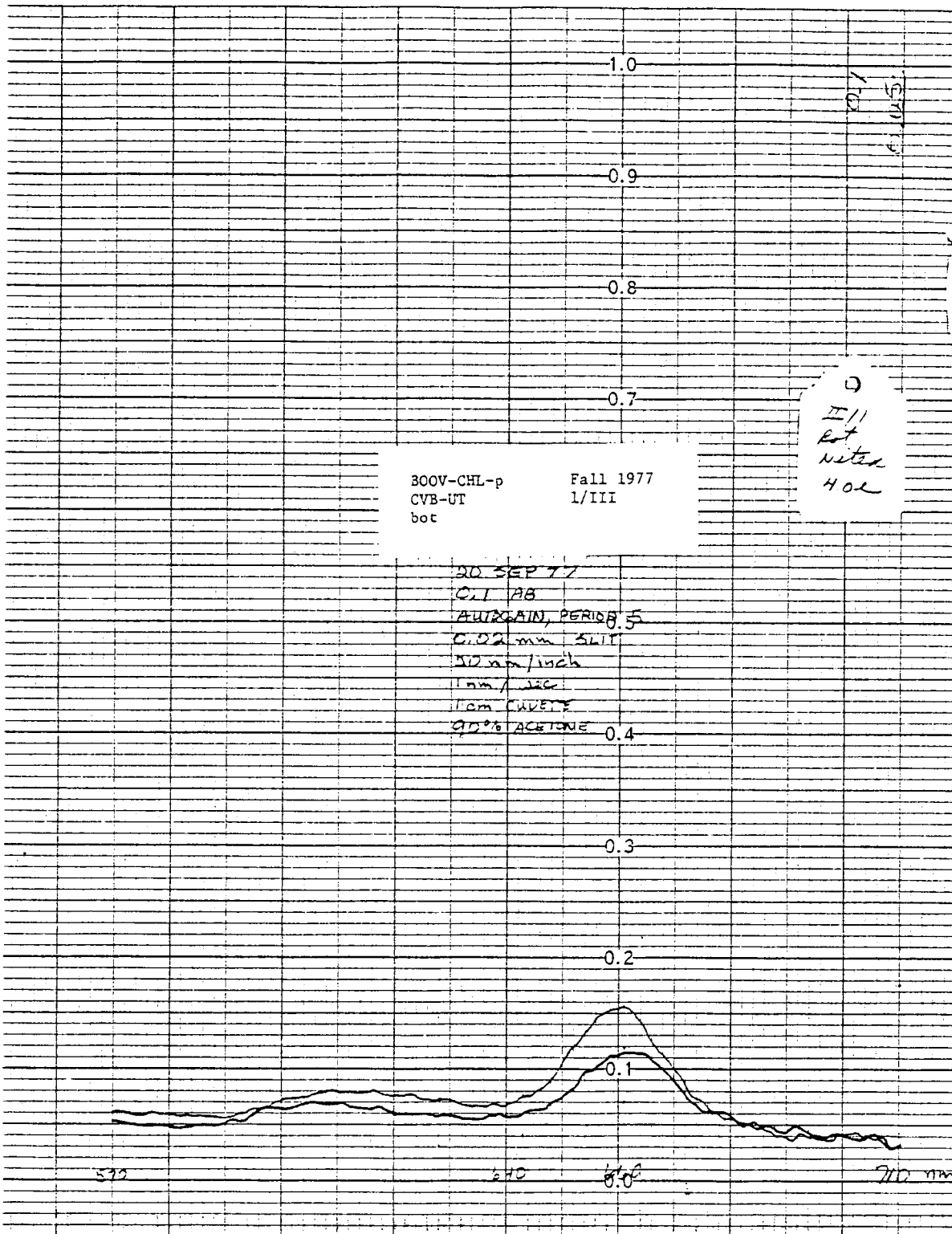
5  
0.0

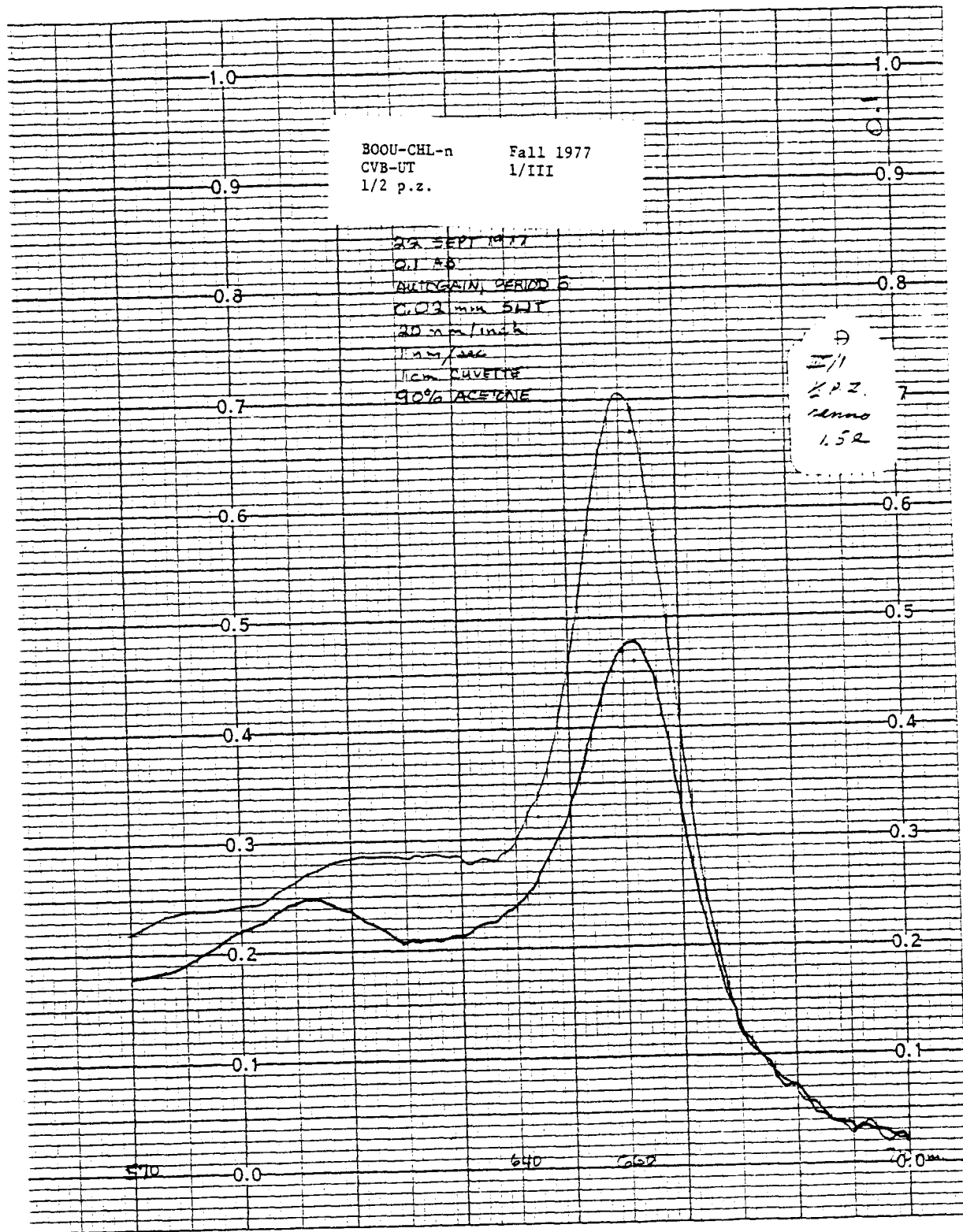
→  
III  
Bot.  
Name  
1.52

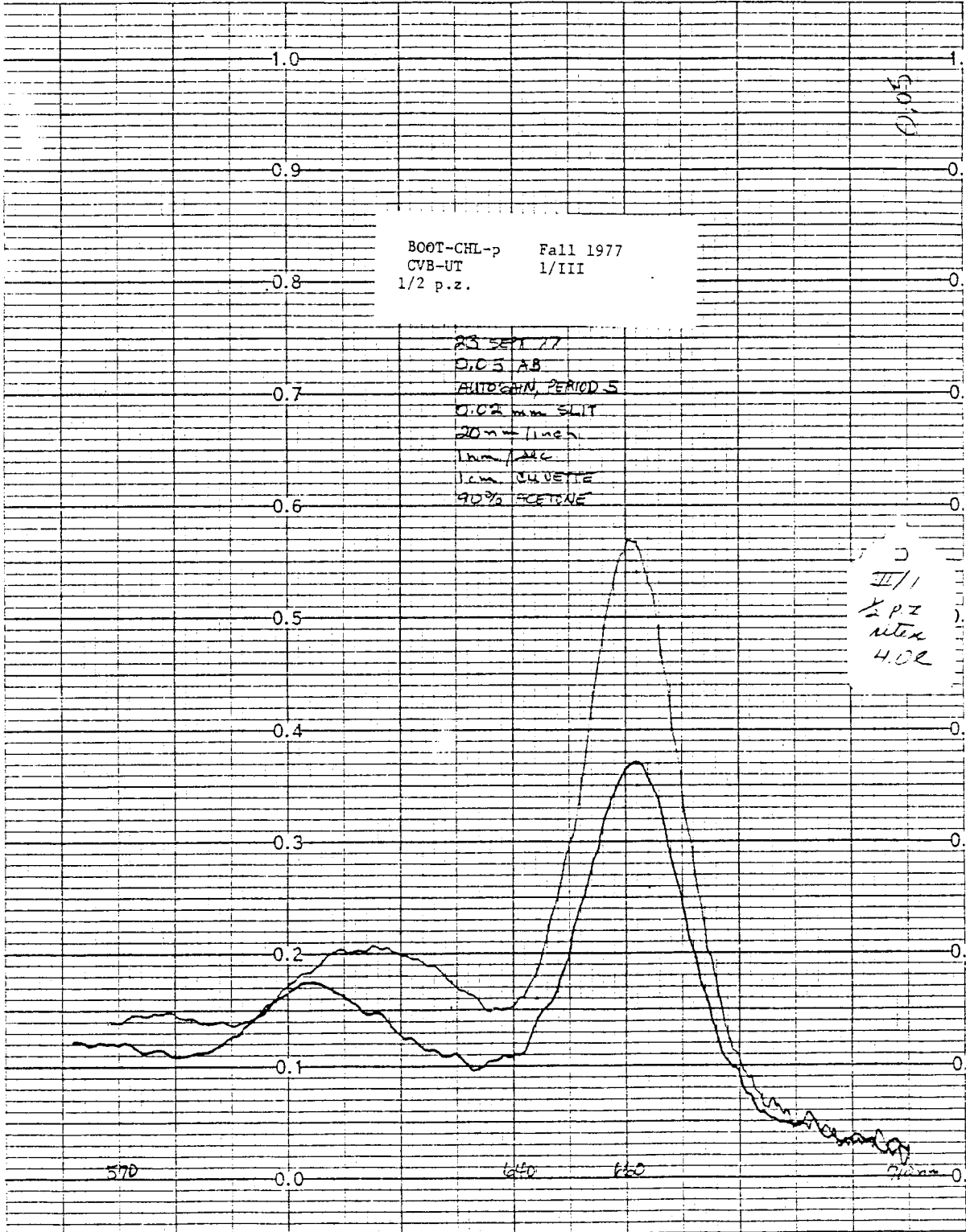
570

640 0.0 660

770 nm



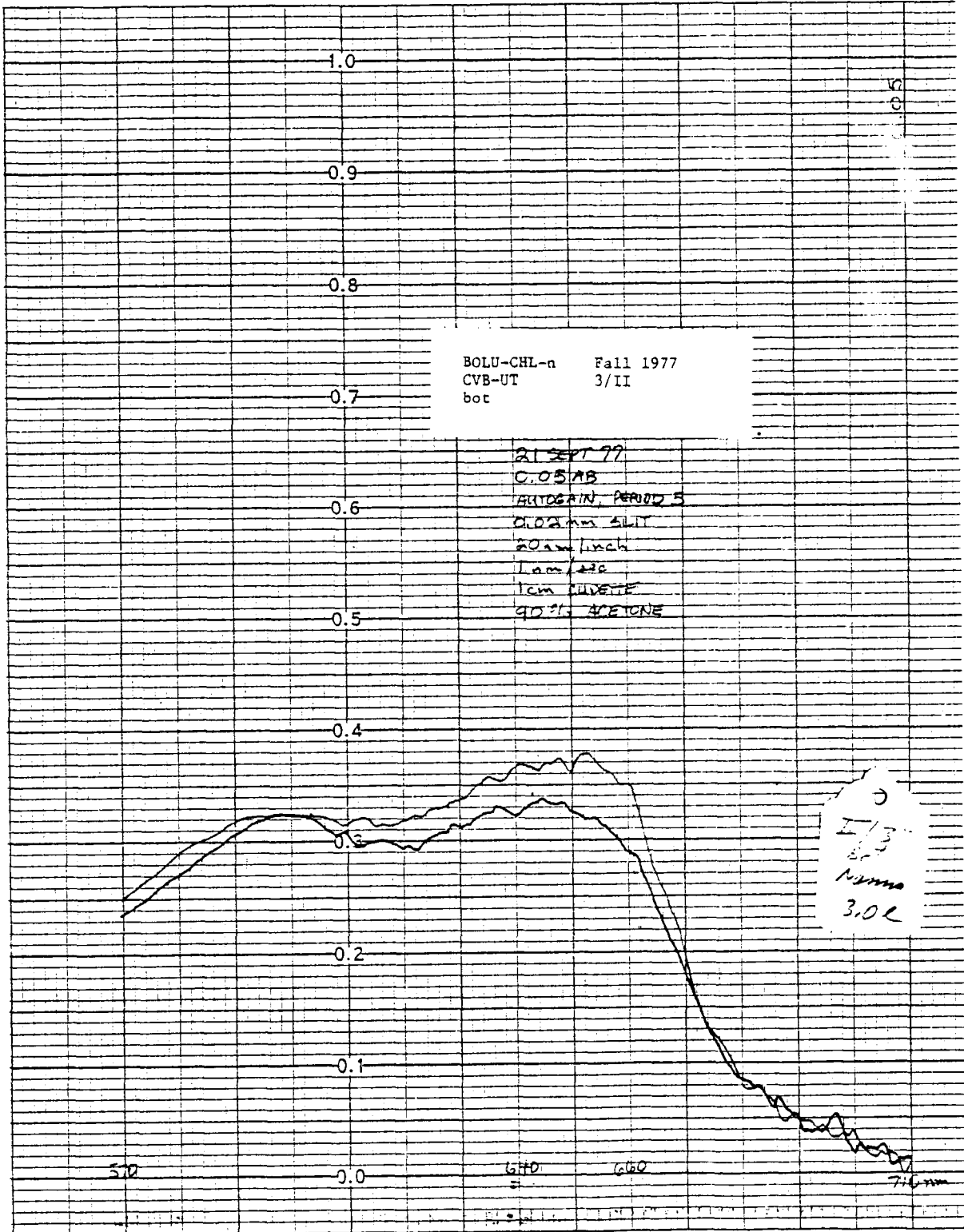


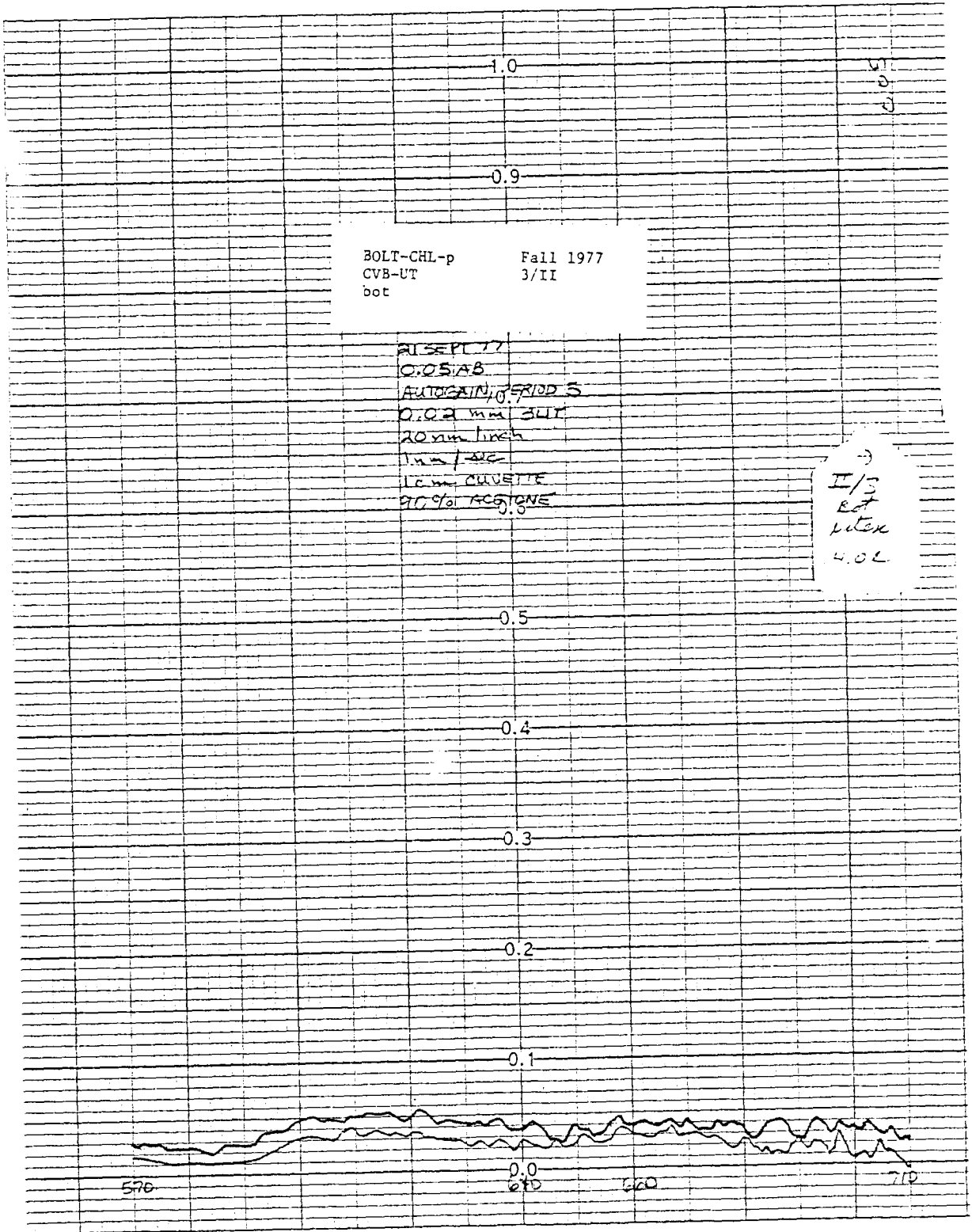


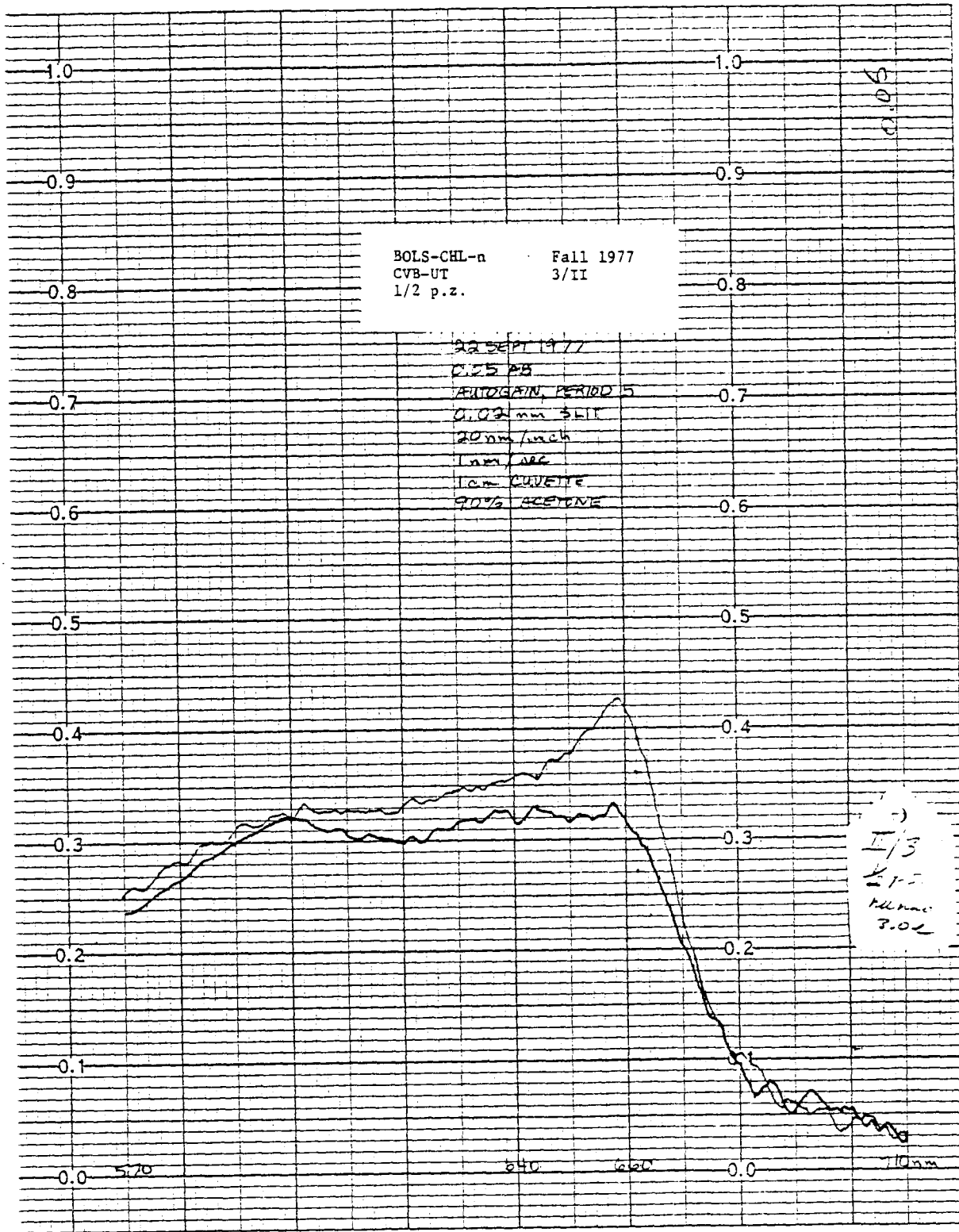


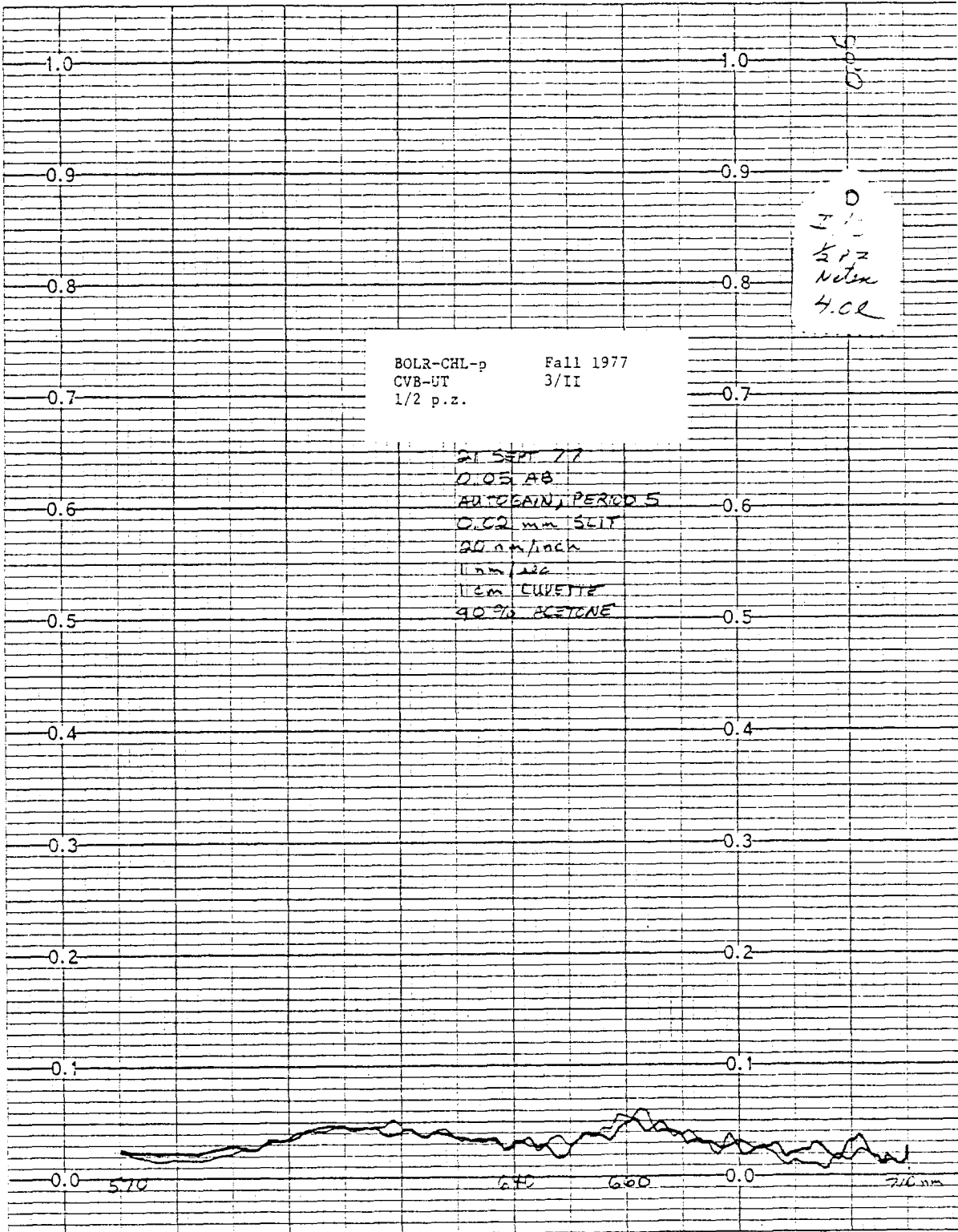


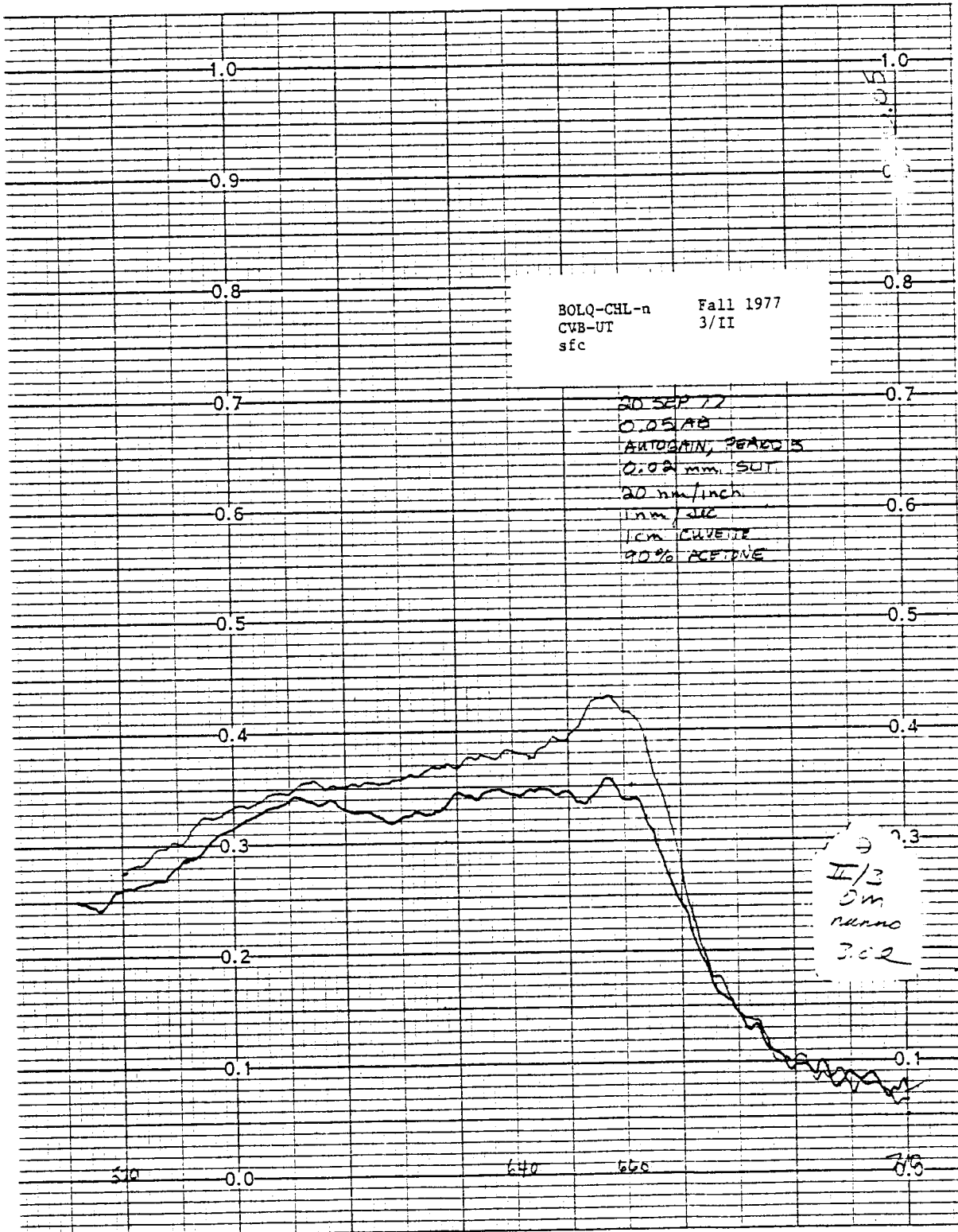


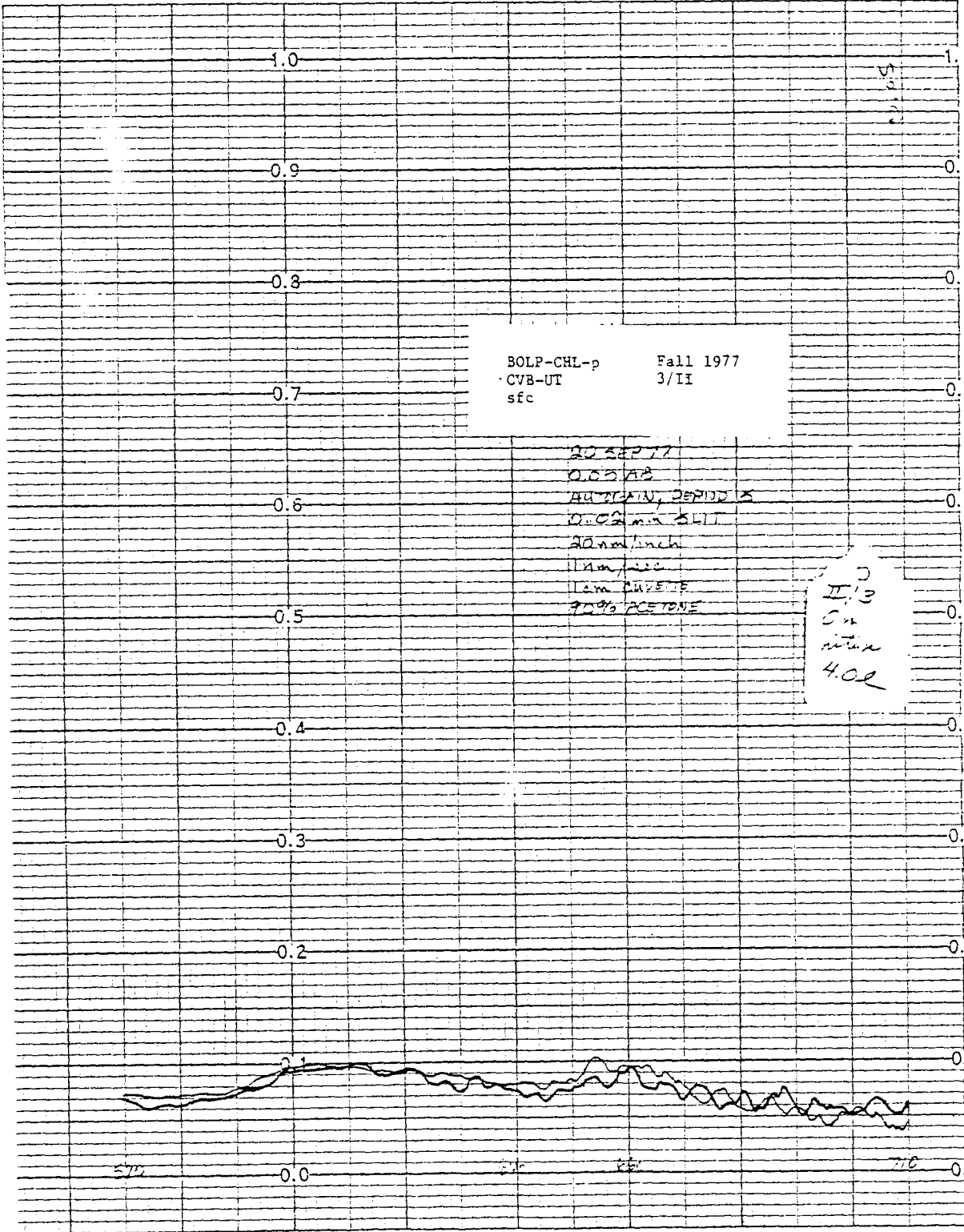


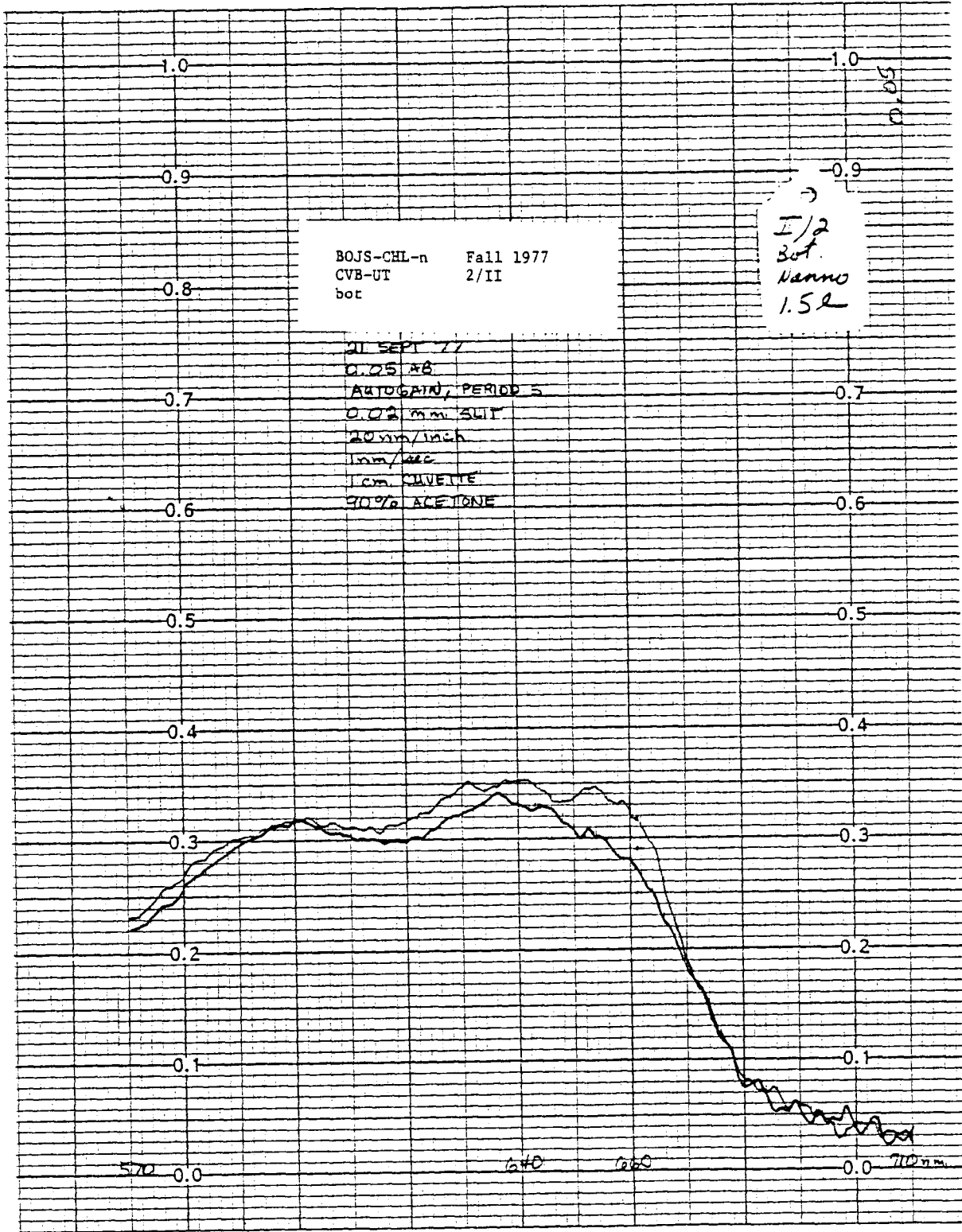


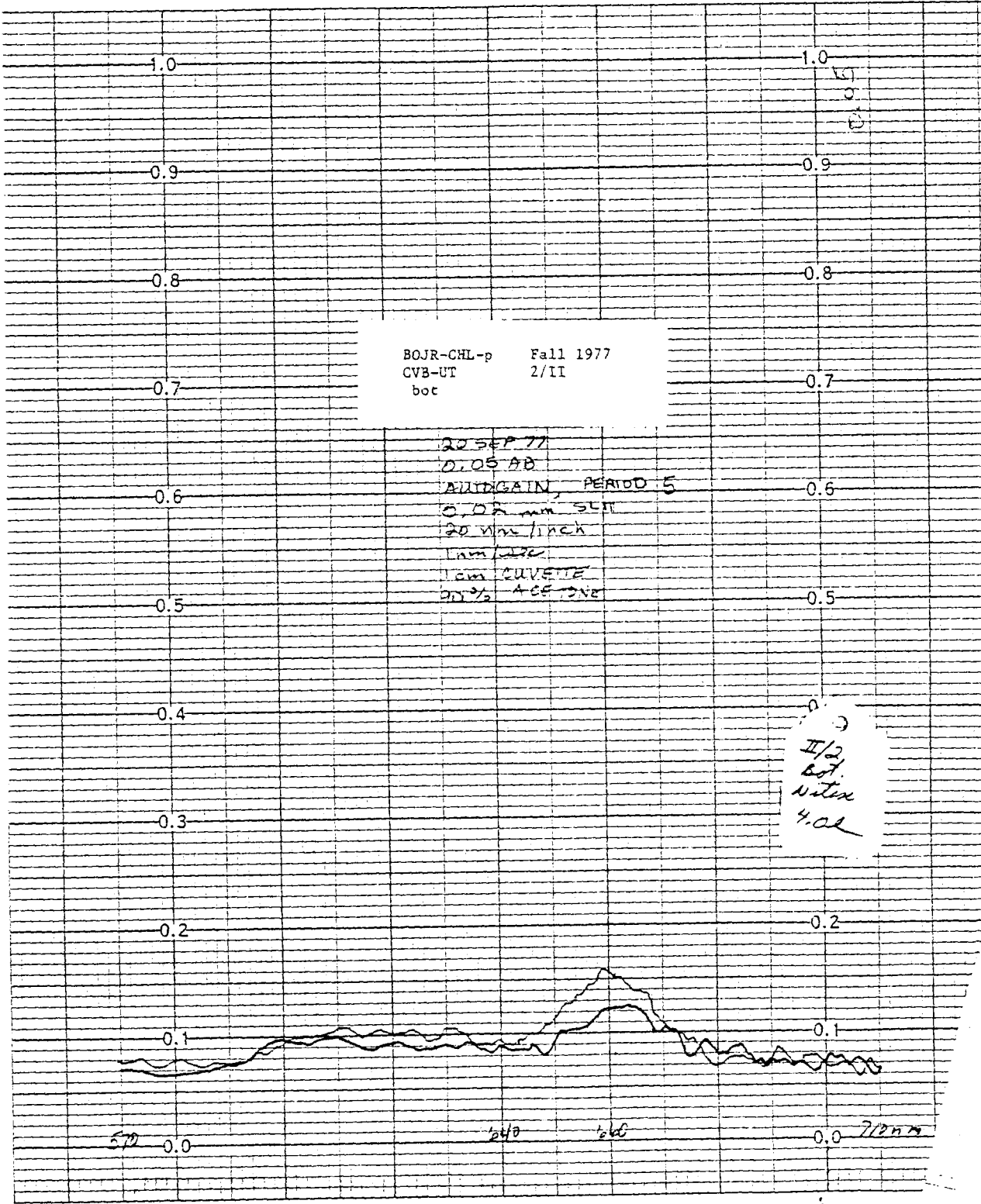




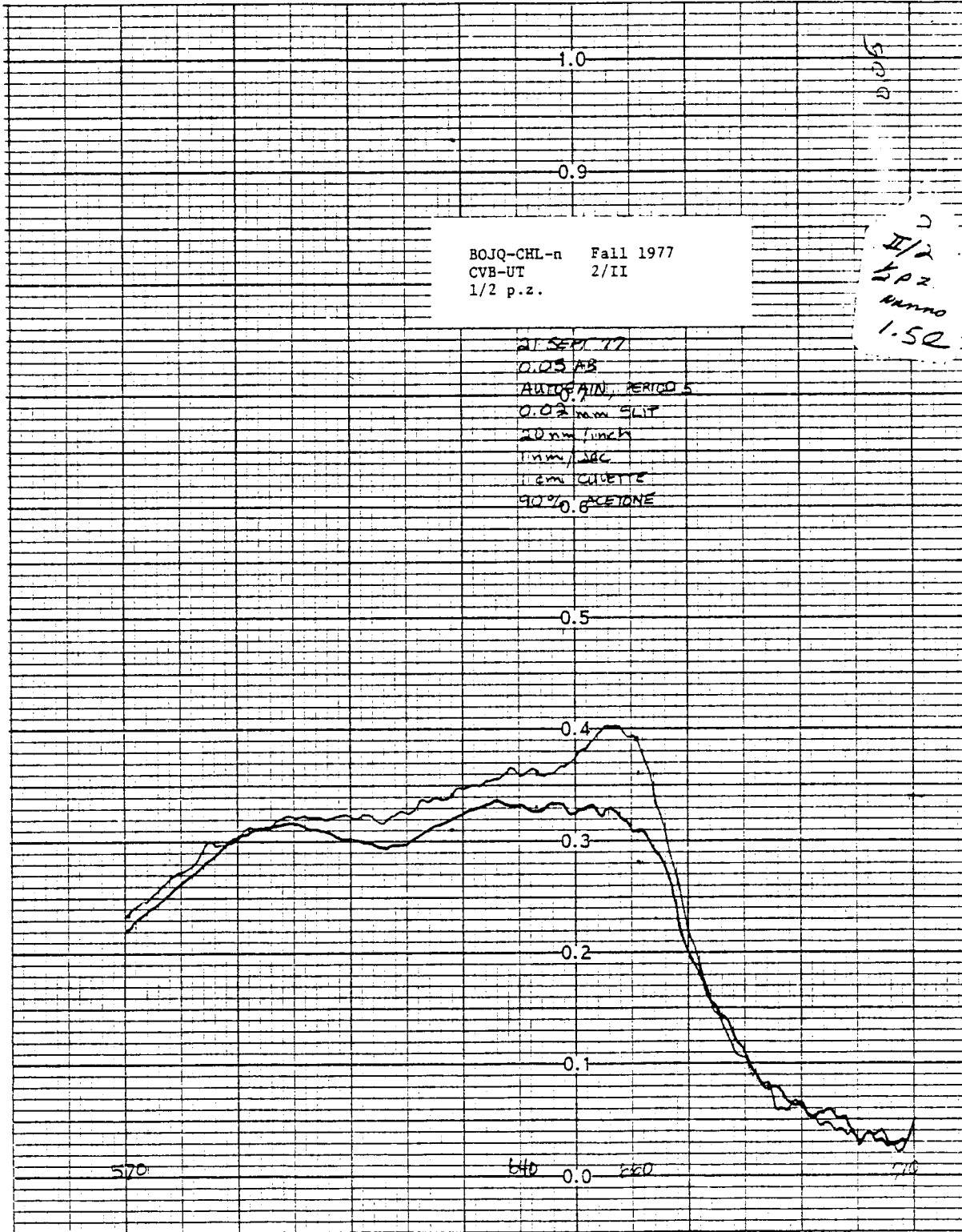


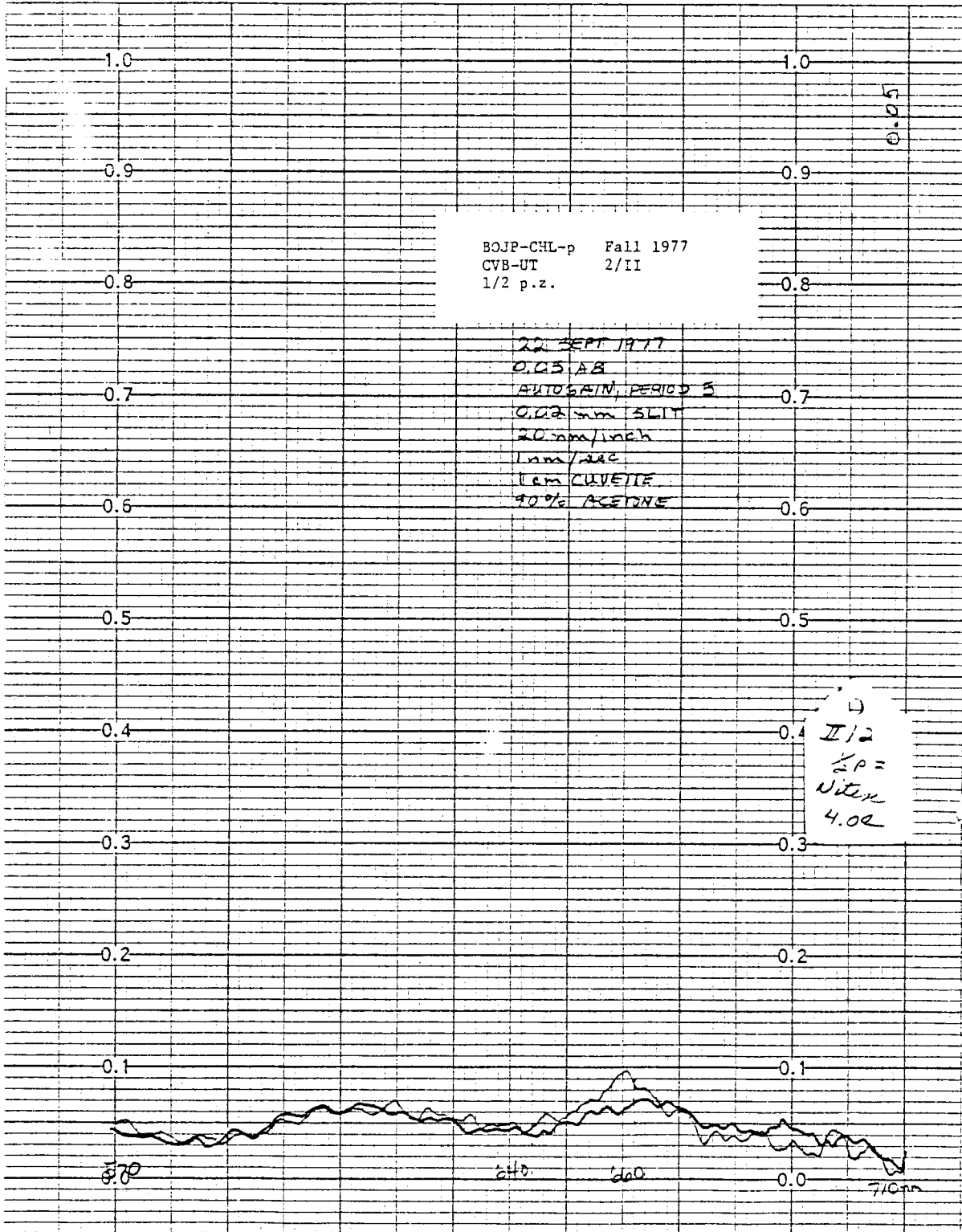


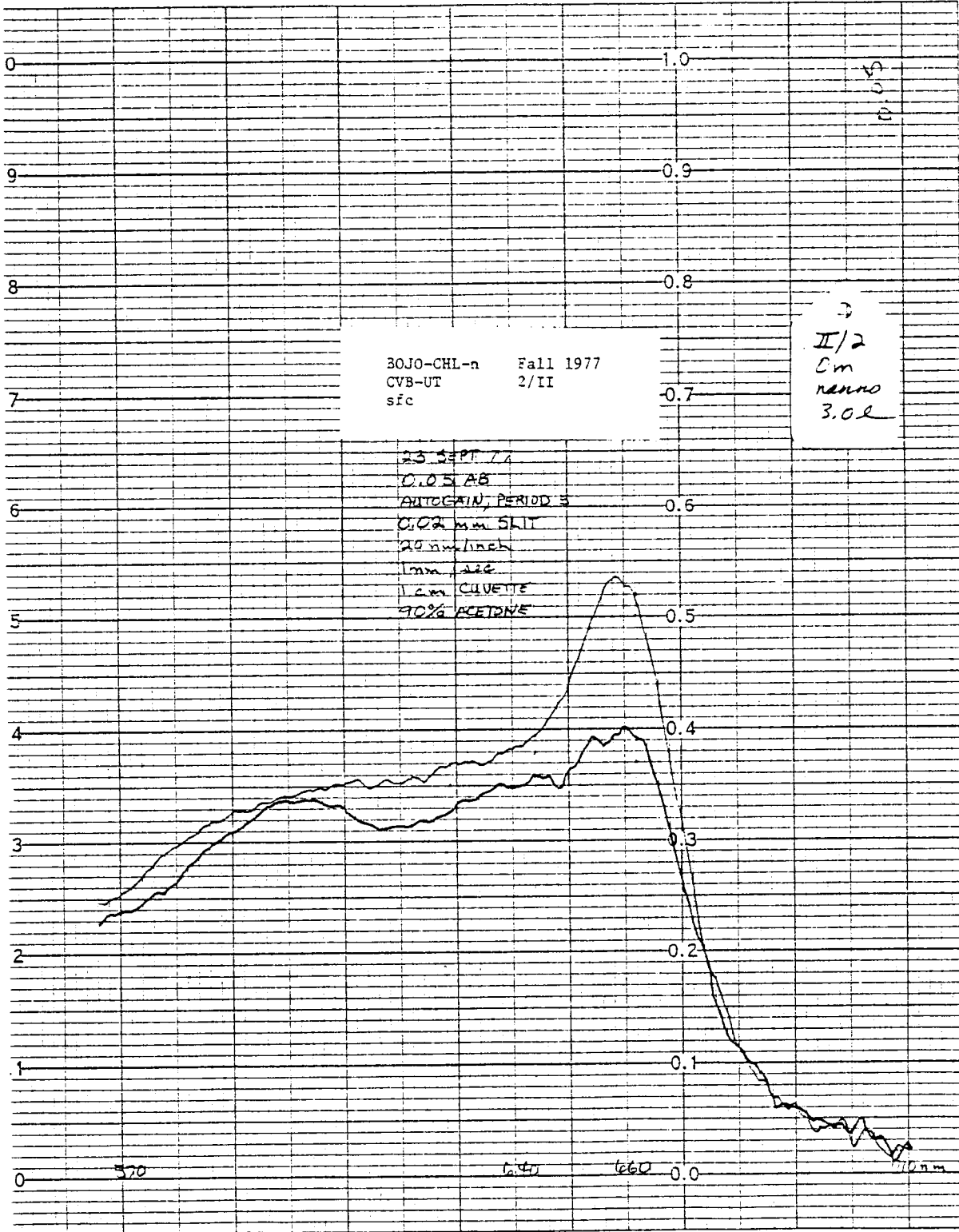


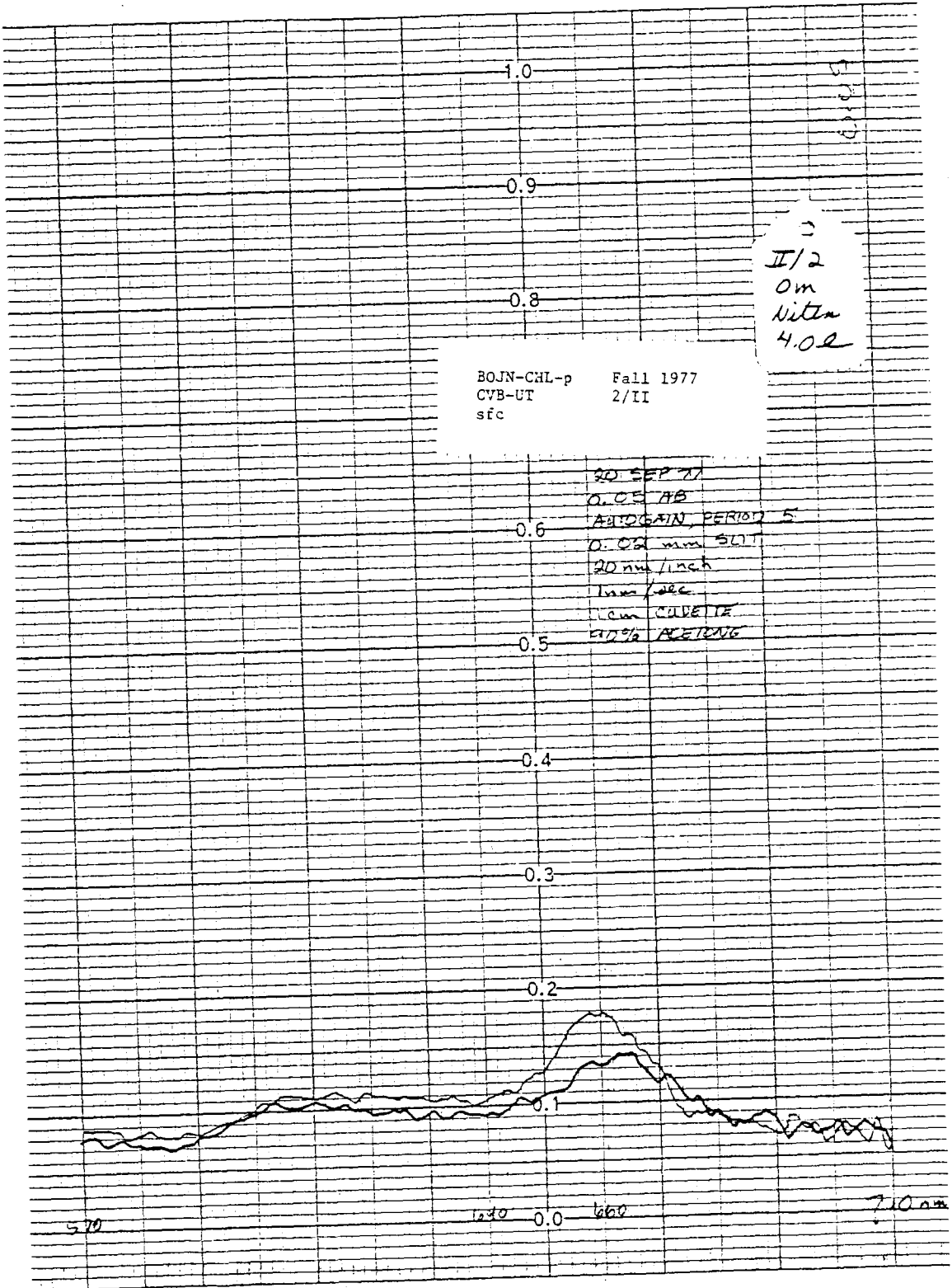








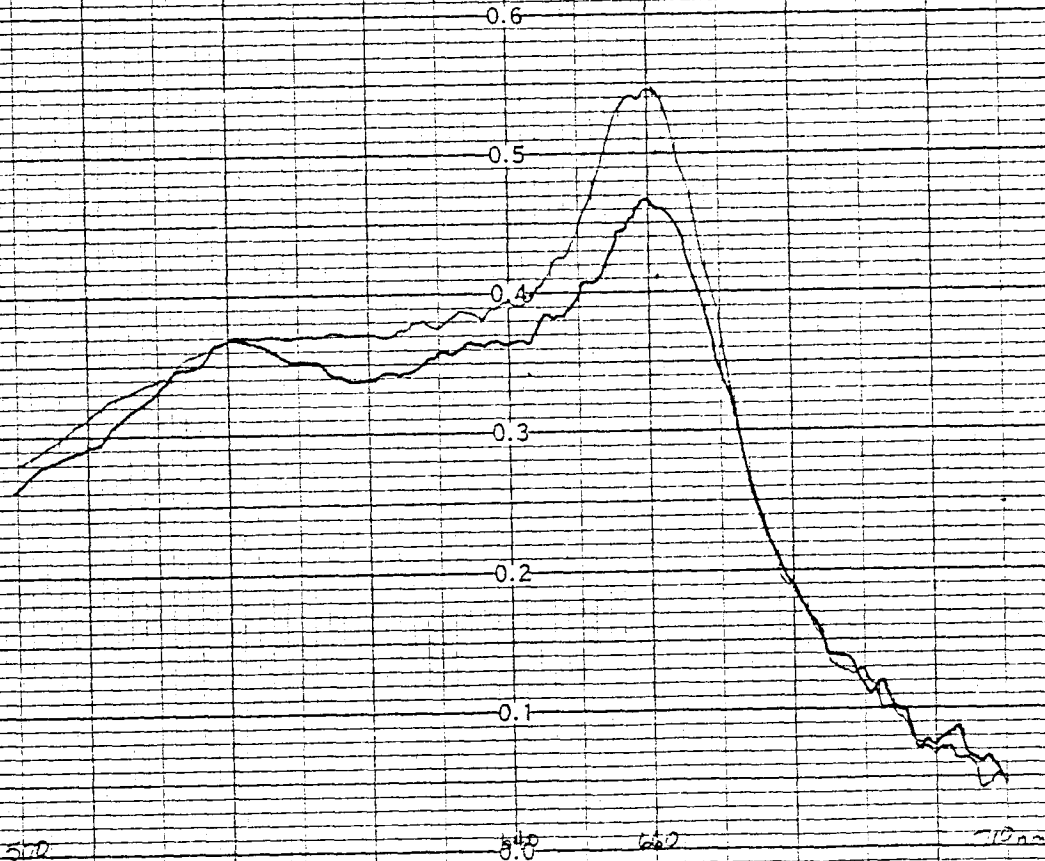


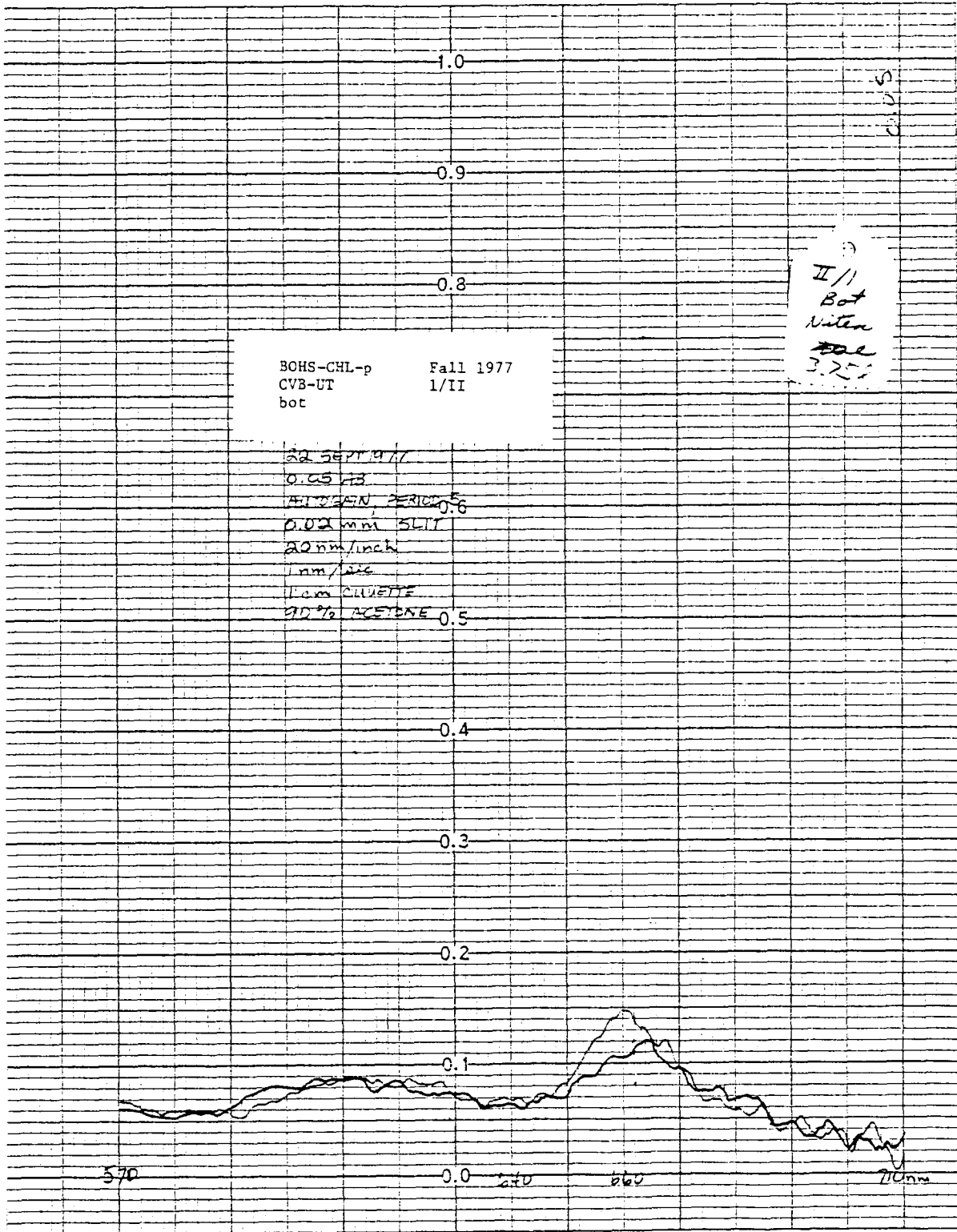


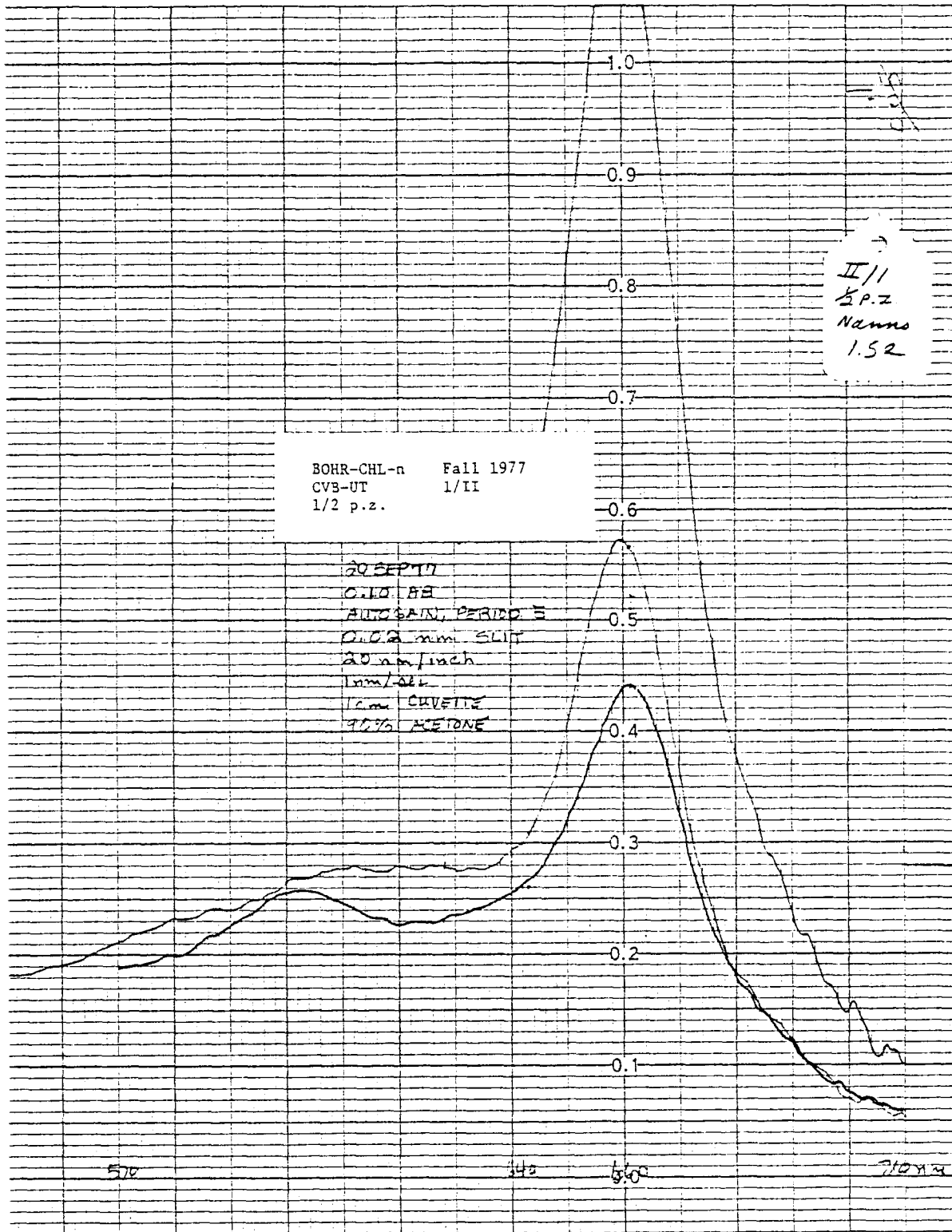
BOHT-CHL-n Fall 1977  
CVB-UT 1/II  
bot

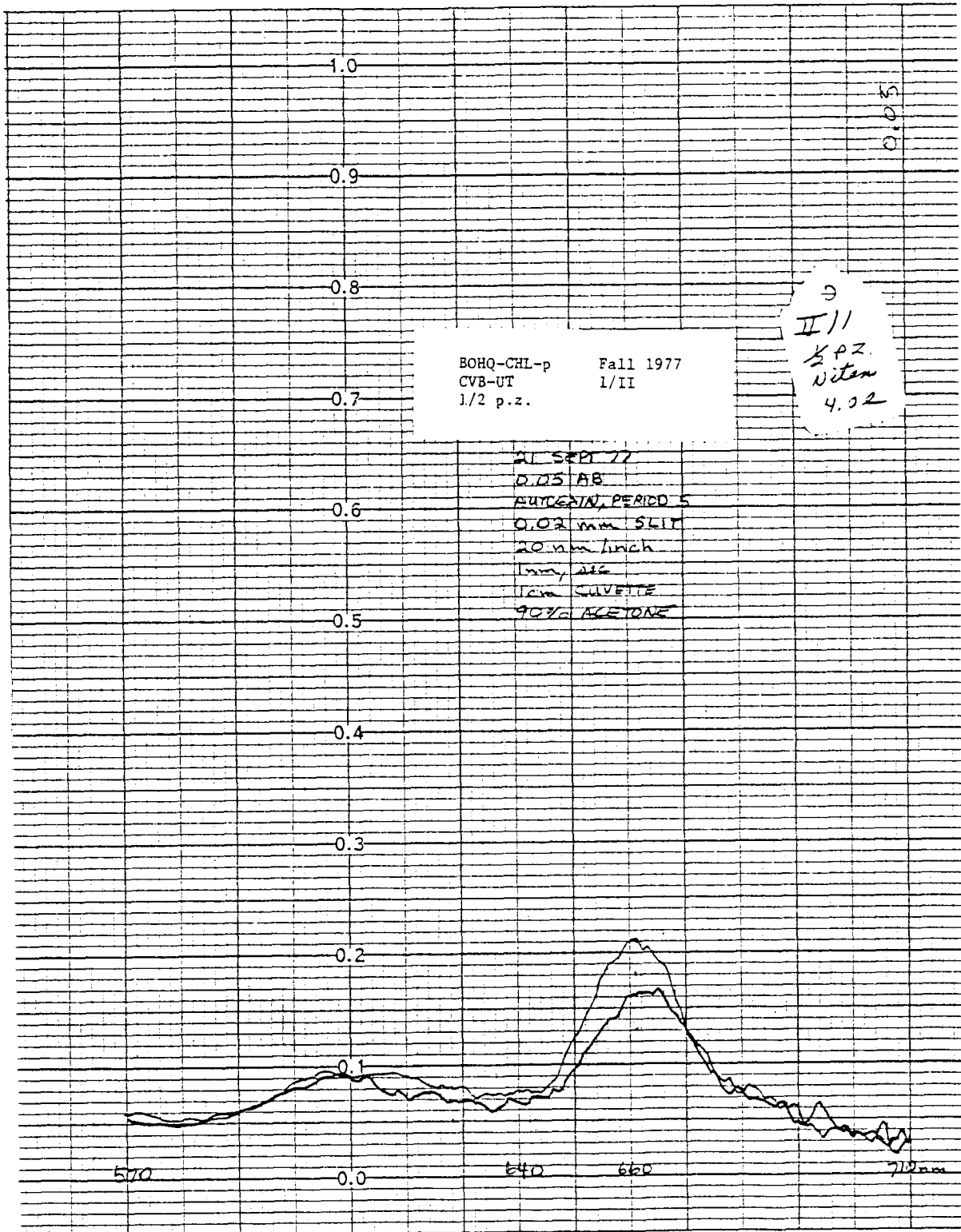
AT SEPT 10.8  
C.05 AB  
AUTOGAIN, PERIOD 5  
0.02 mm SELF  
10.0 mm/Inch  
1mm/sec 0.7  
Lam CURVE  
90% XETONE

→  
II II  
Bot.  
Vanno  
1.52

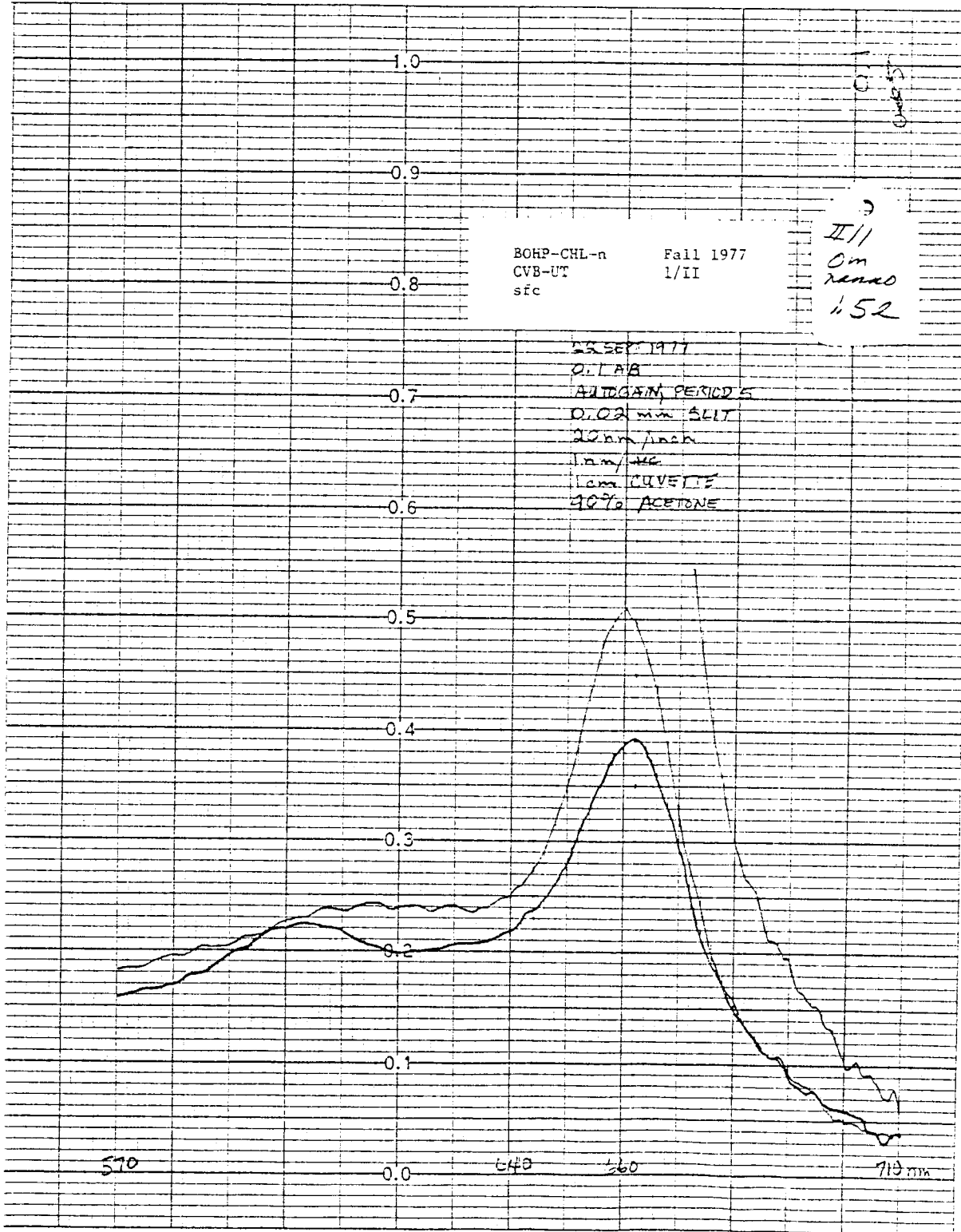












1.0

0.9

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0.0

BOHO-CHL-p Fall 1977  
CVB-UT 1/II  
sfc

22 SEPT 77  
0.03 HB  
AUTOGRIN PERIODS  
0.22 mm SWIT  
20 N/A lines  
1 cm LRE  
1 cm JUCETE  
90% +STONE

II/1  
Om  
Viter  
4.02

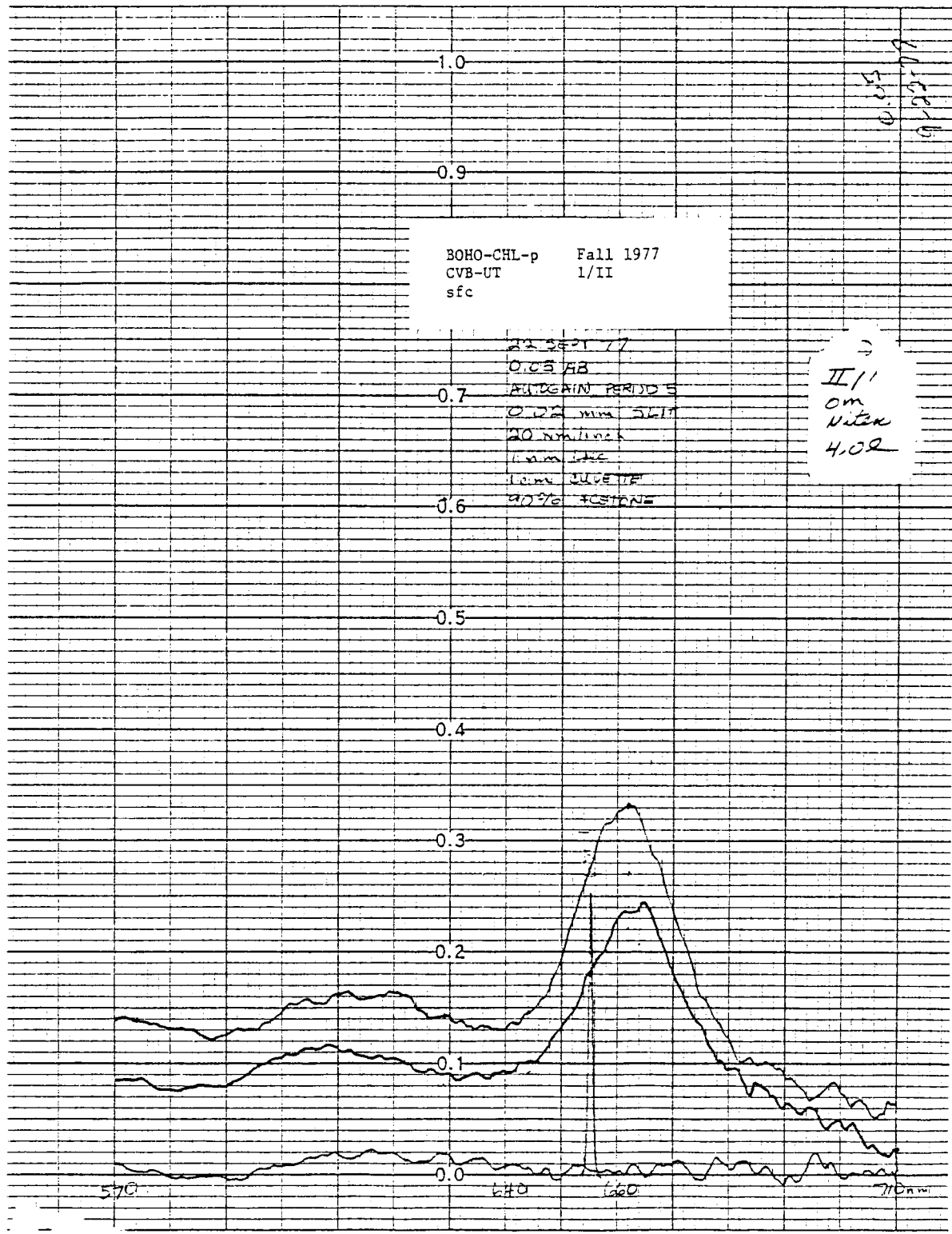
0.05  
0.02  
0.01

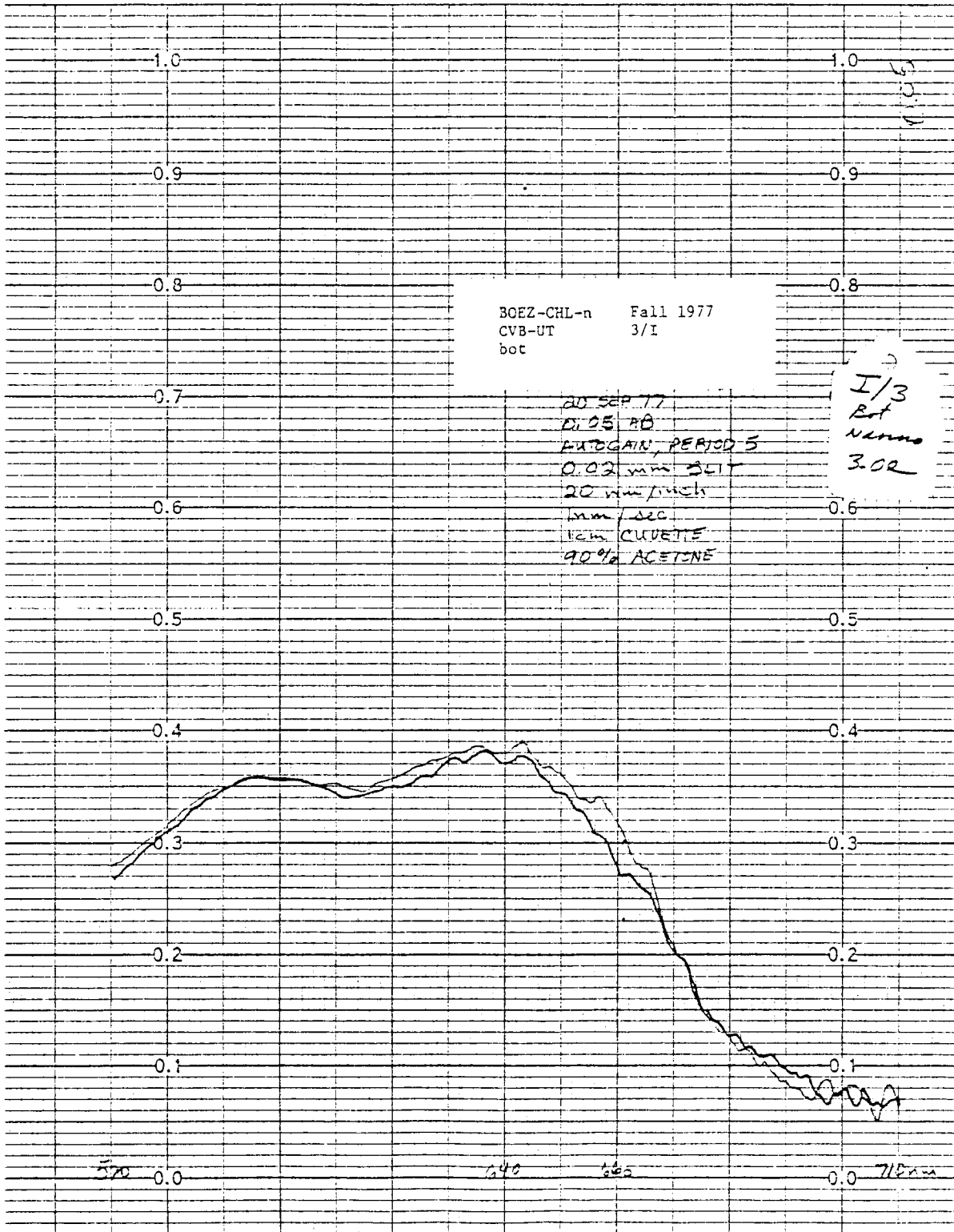
570

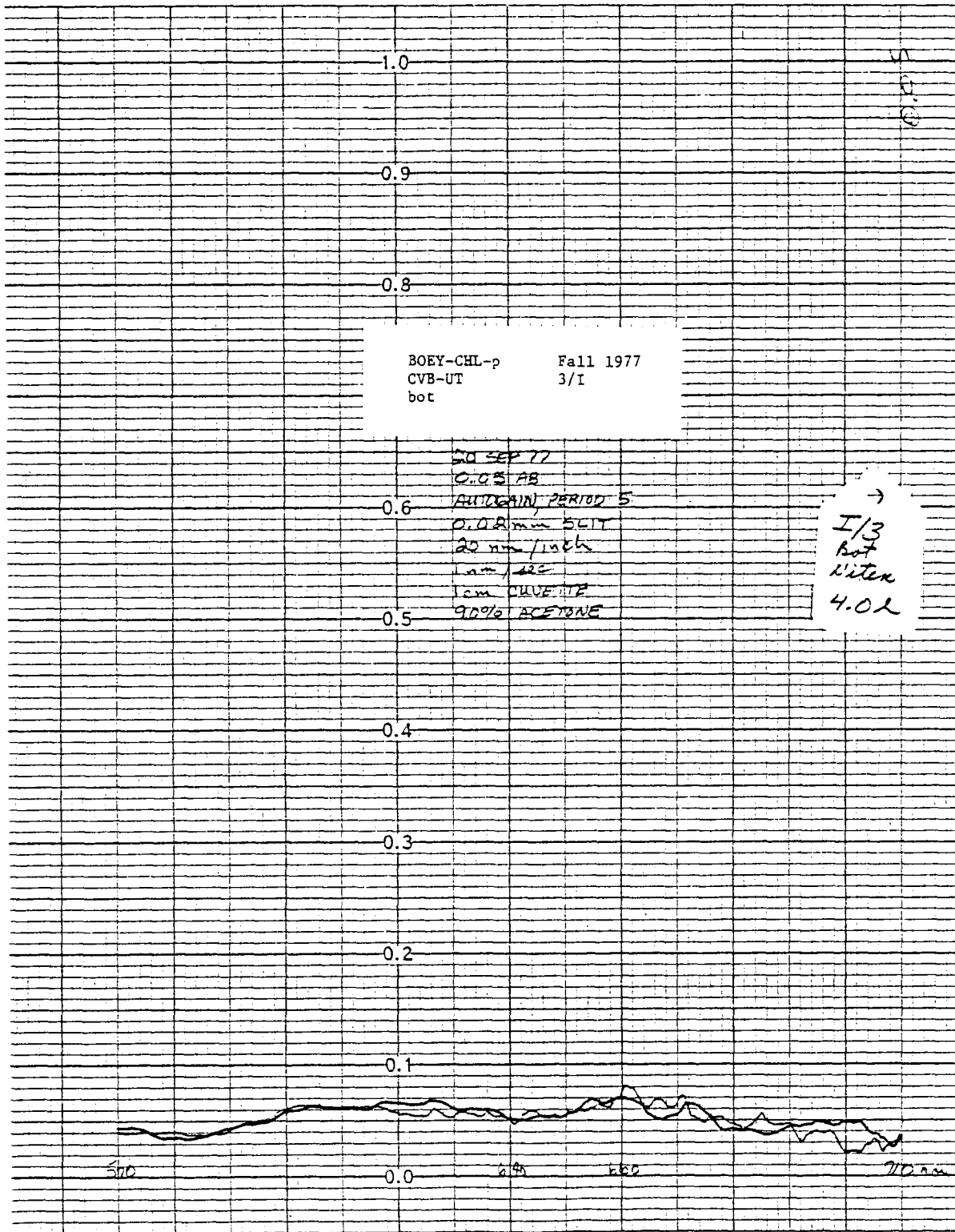
640

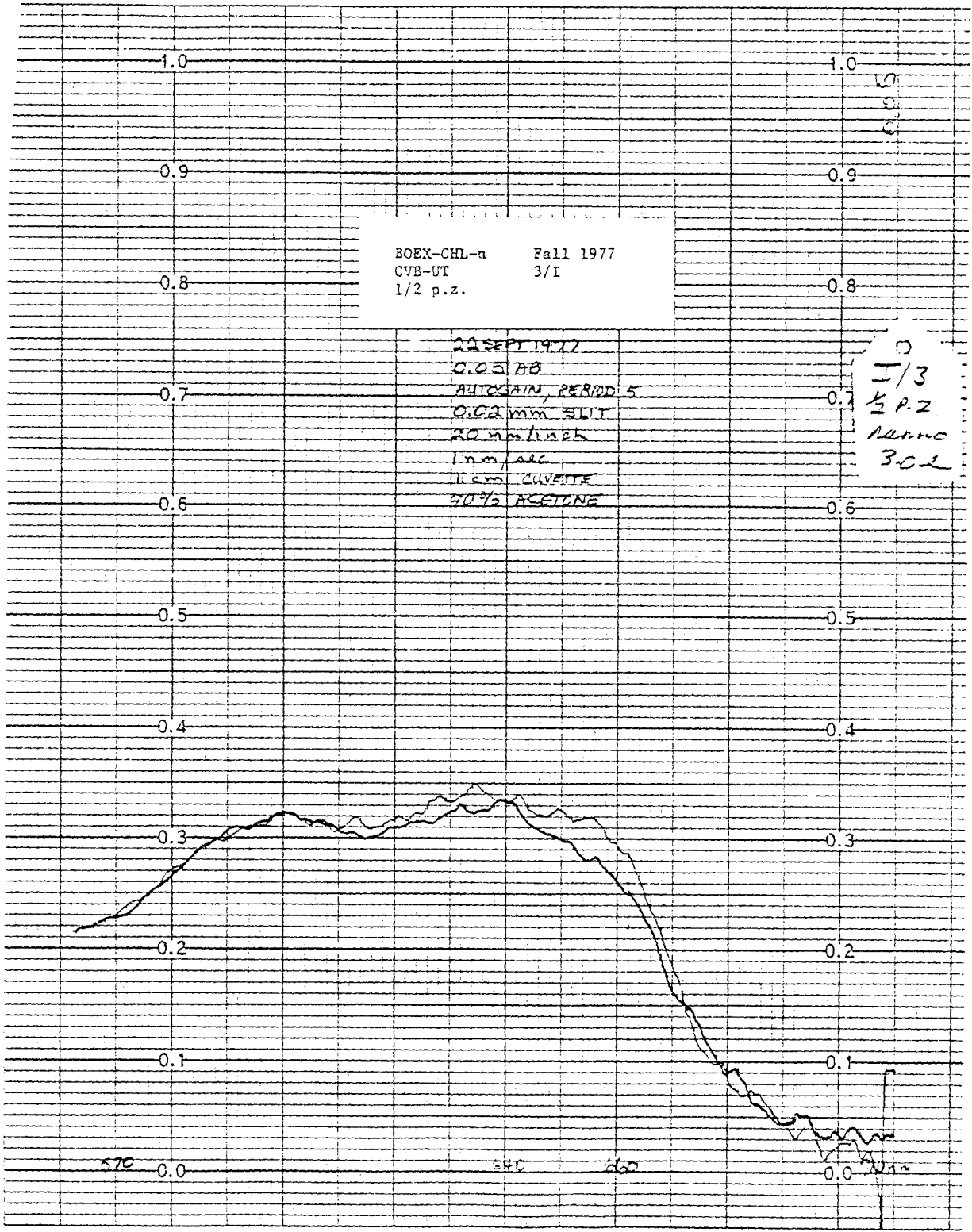
660

710 nm









BOEX-CHL-n      Fall 1977  
CVB-UT            3/I  
1/2 p.z.

22 SEPT 1977  
0.05 AB  
AUTO GAIN, PERIOD 5  
0.02 mm SLIT  
20 mm/min  
1 mm/sec  
1 cm CUVEITE  
90% ACETONE

I/3  
1/2 P.Z  
ALPHAC  
3.02

570

500

460

0.0

0.1

0.0

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

0.0

0.1

0.2

0.3

0.4

0.5

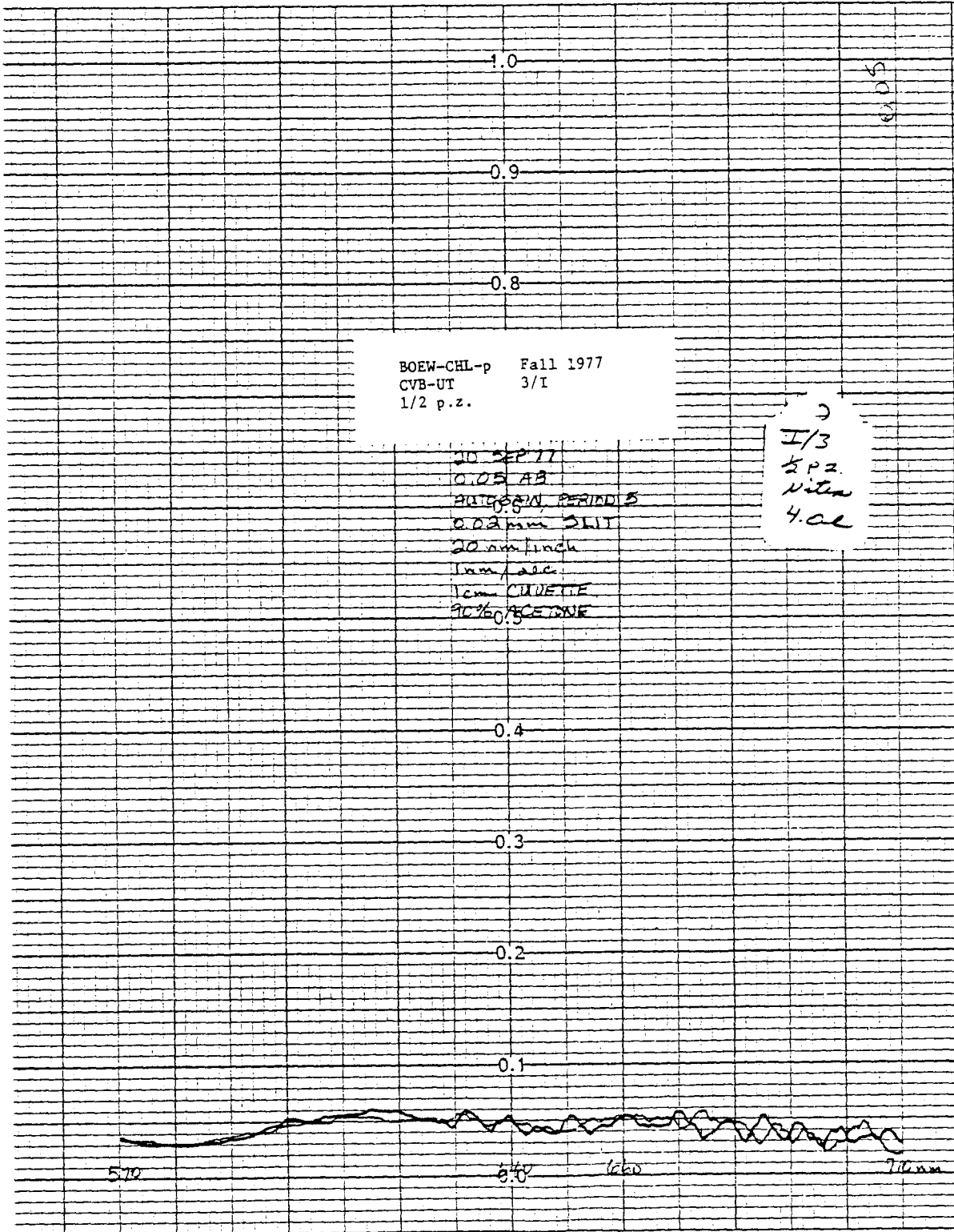
0.6

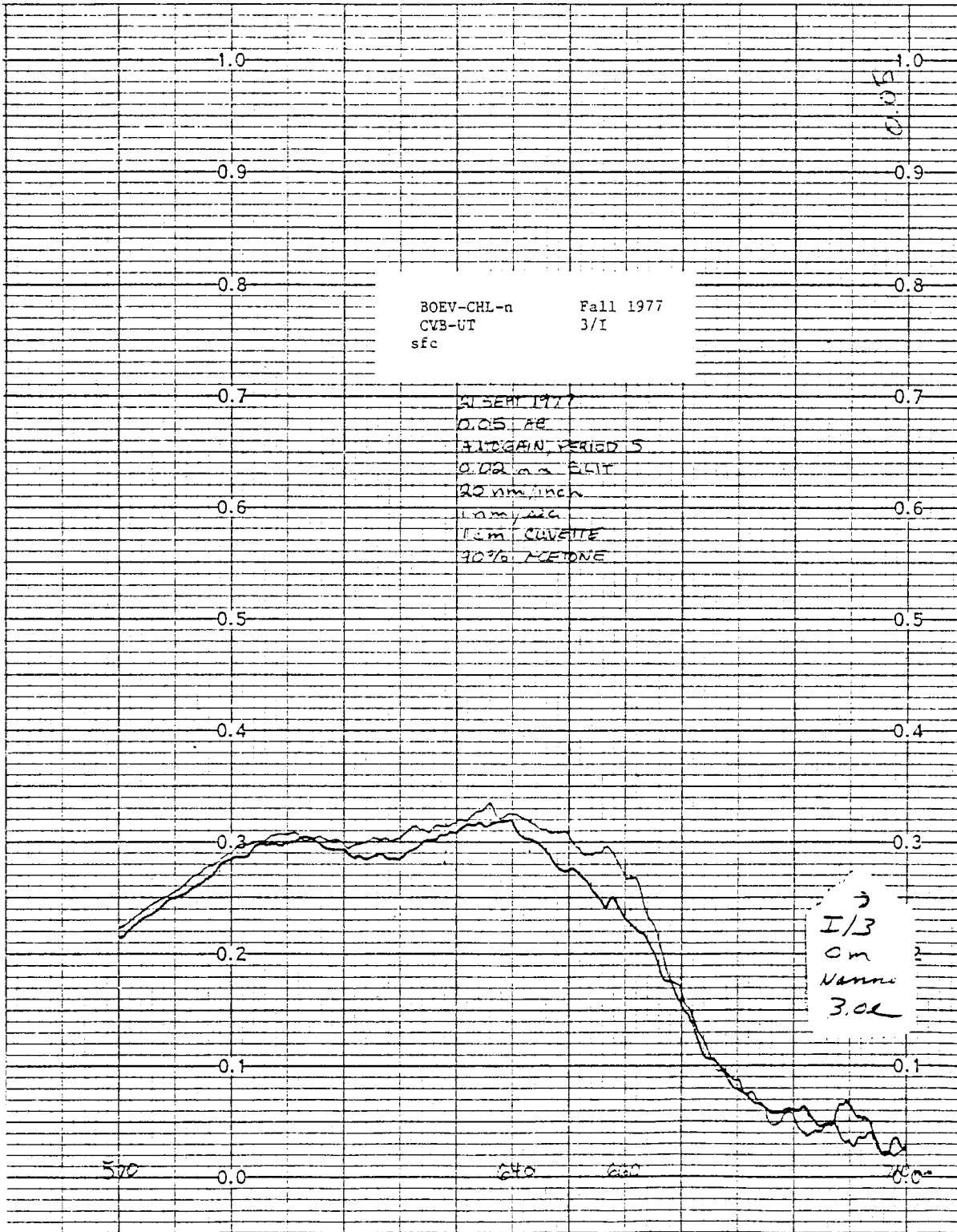
0.7

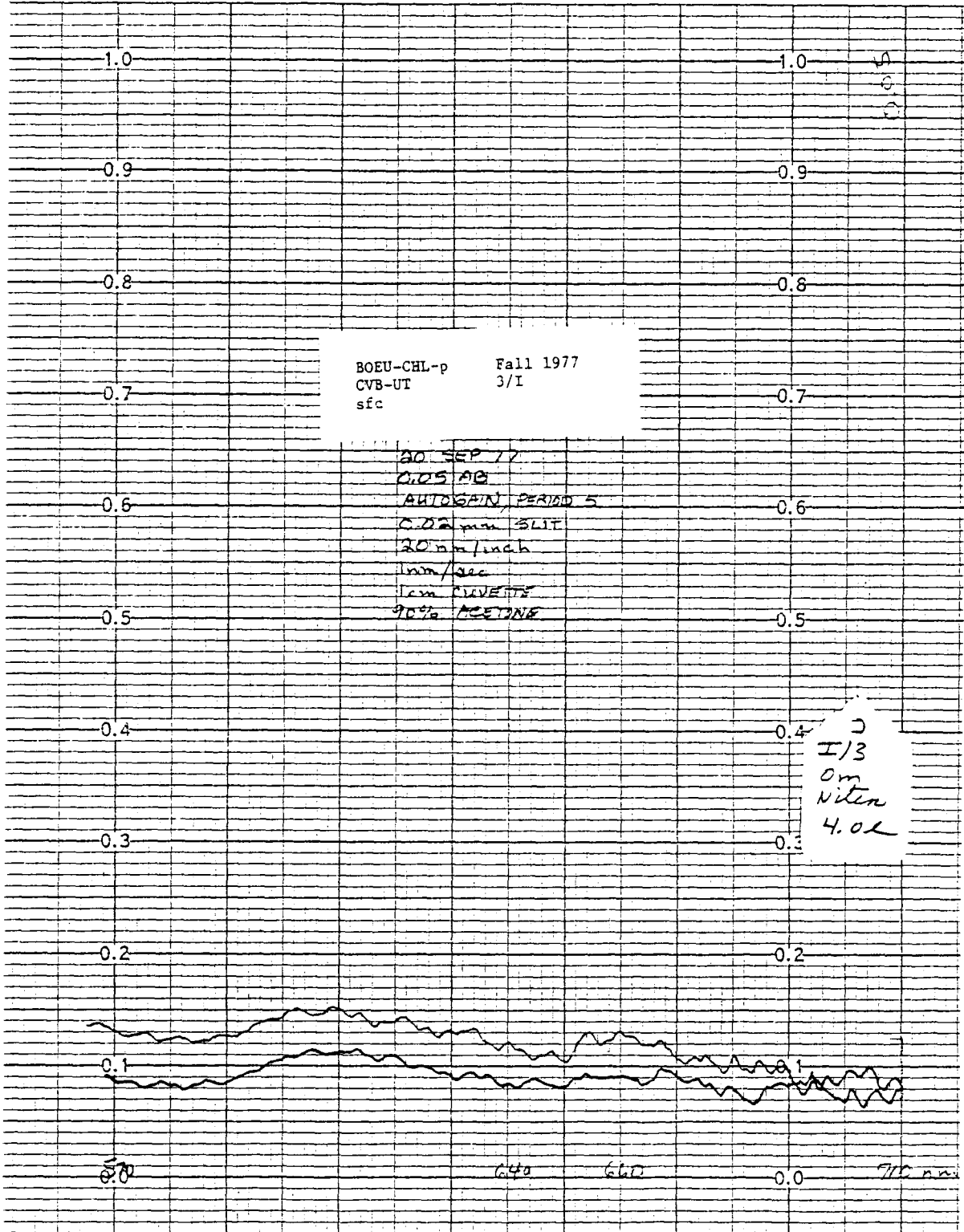
0.8

0.9

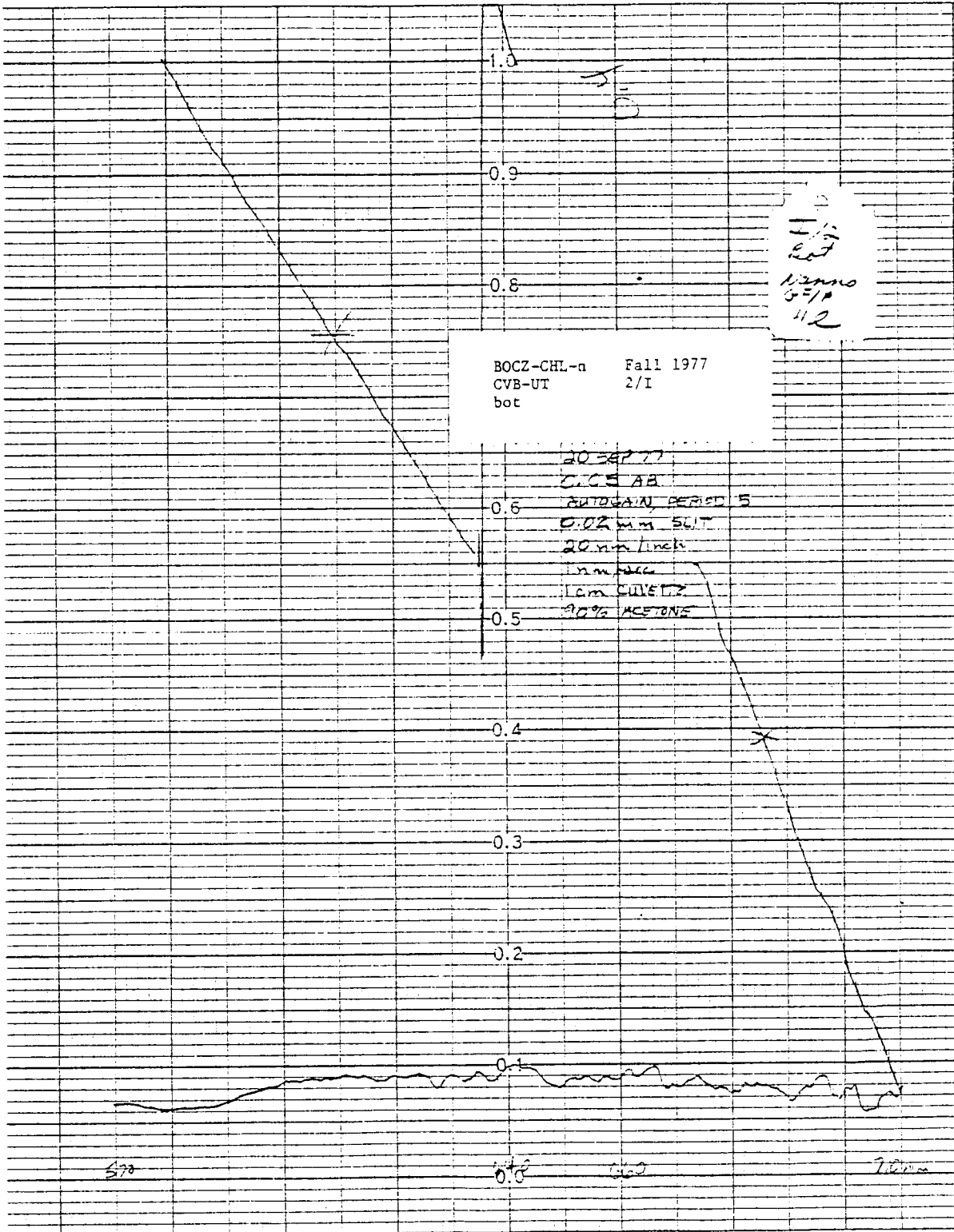
1.0

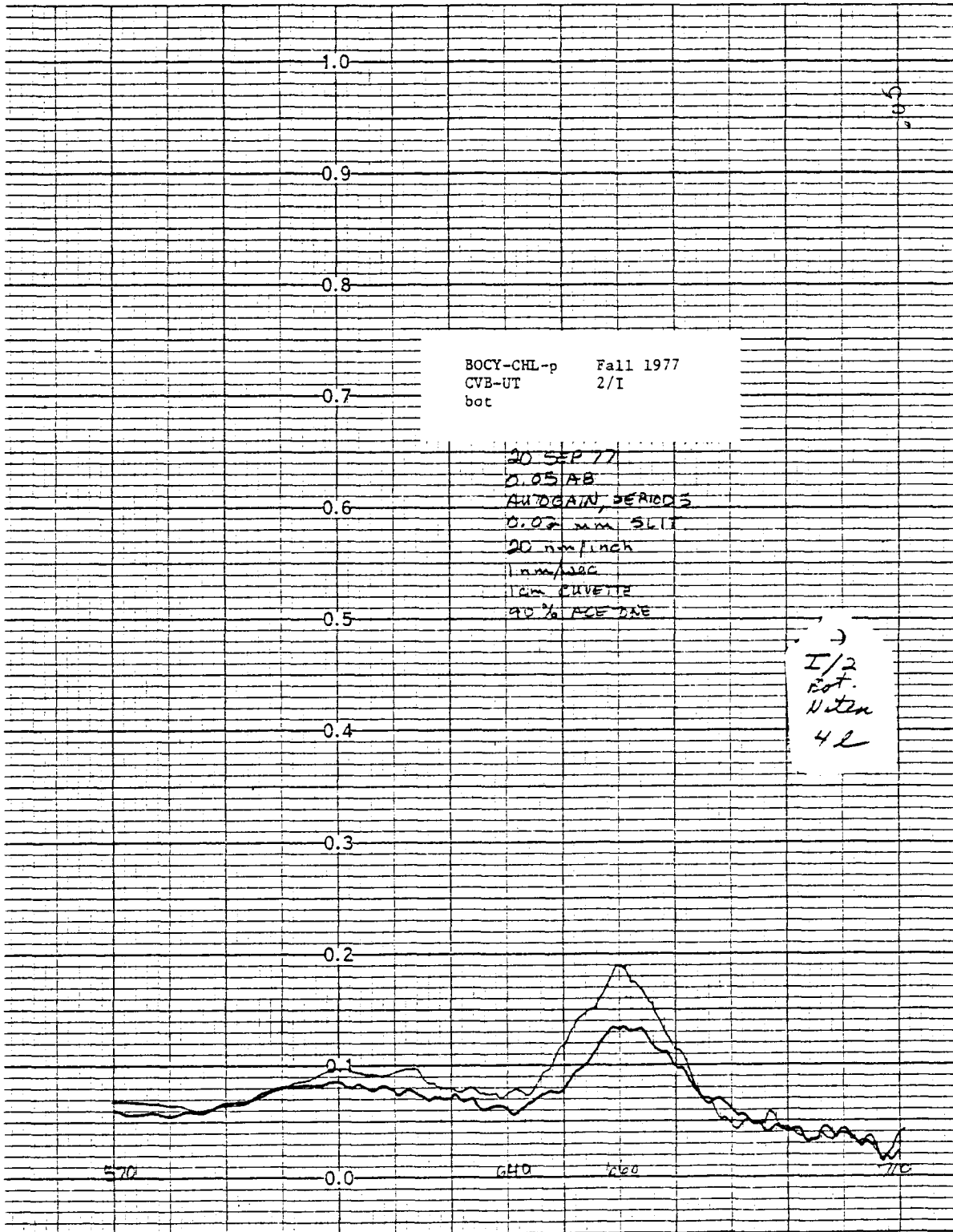


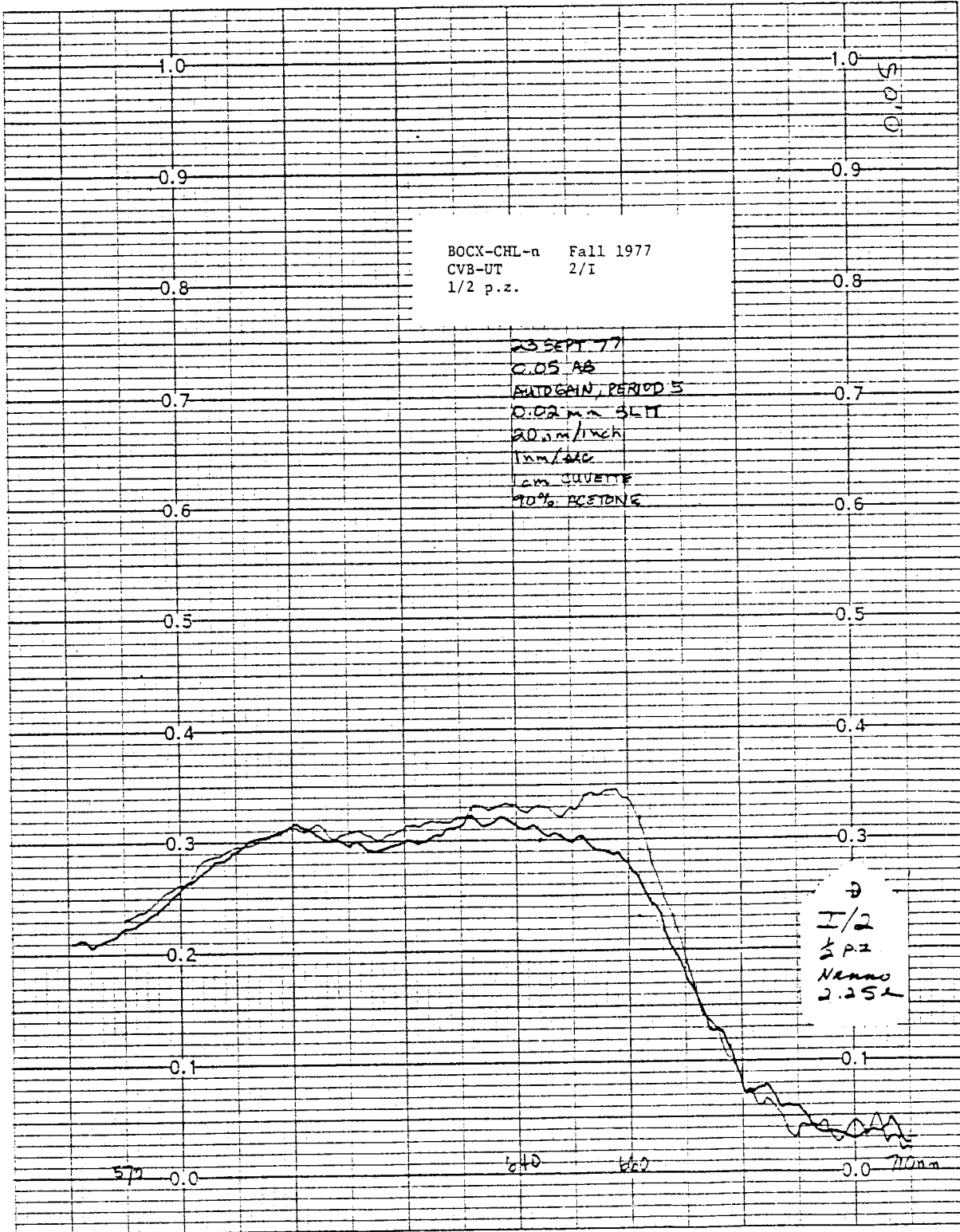


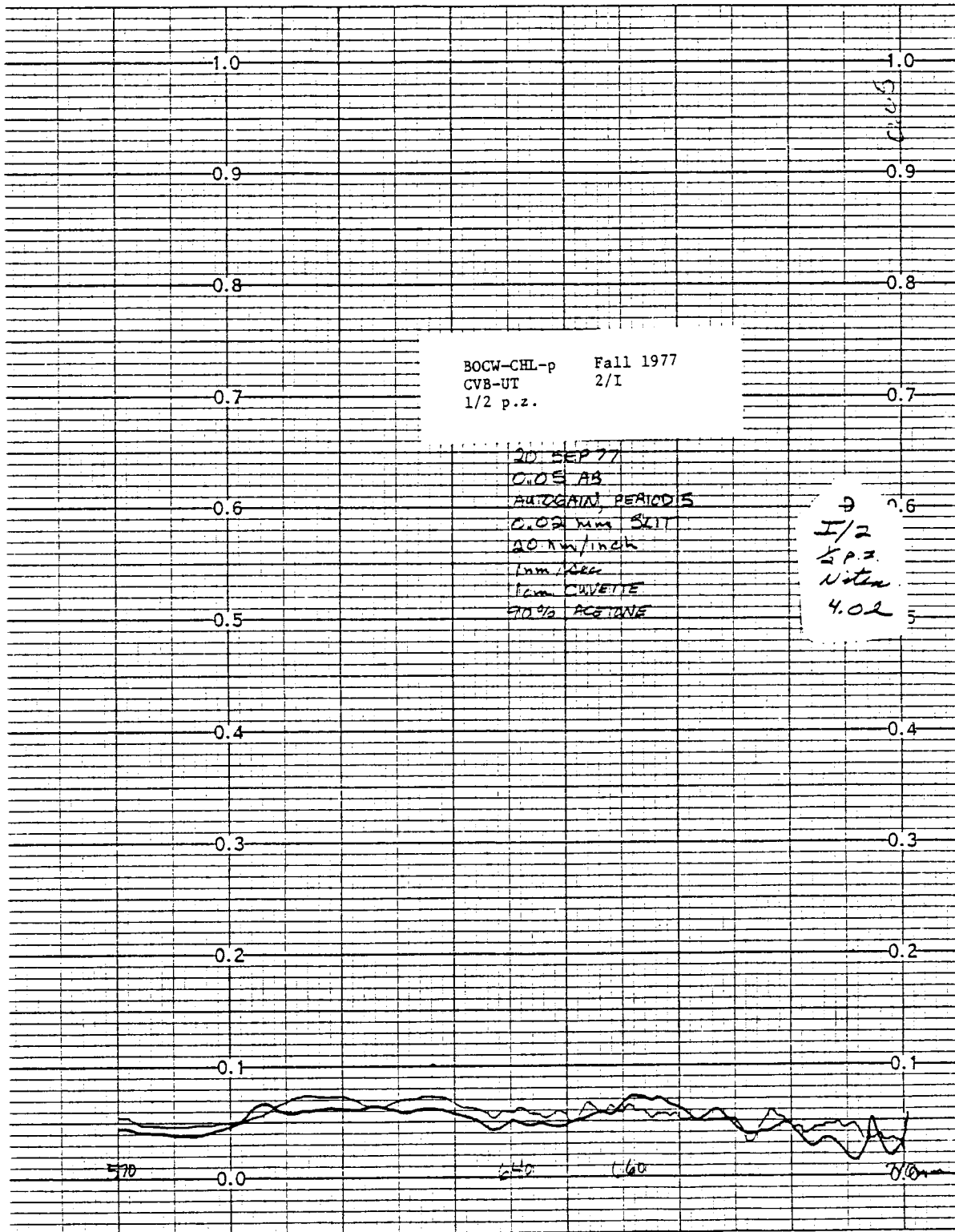






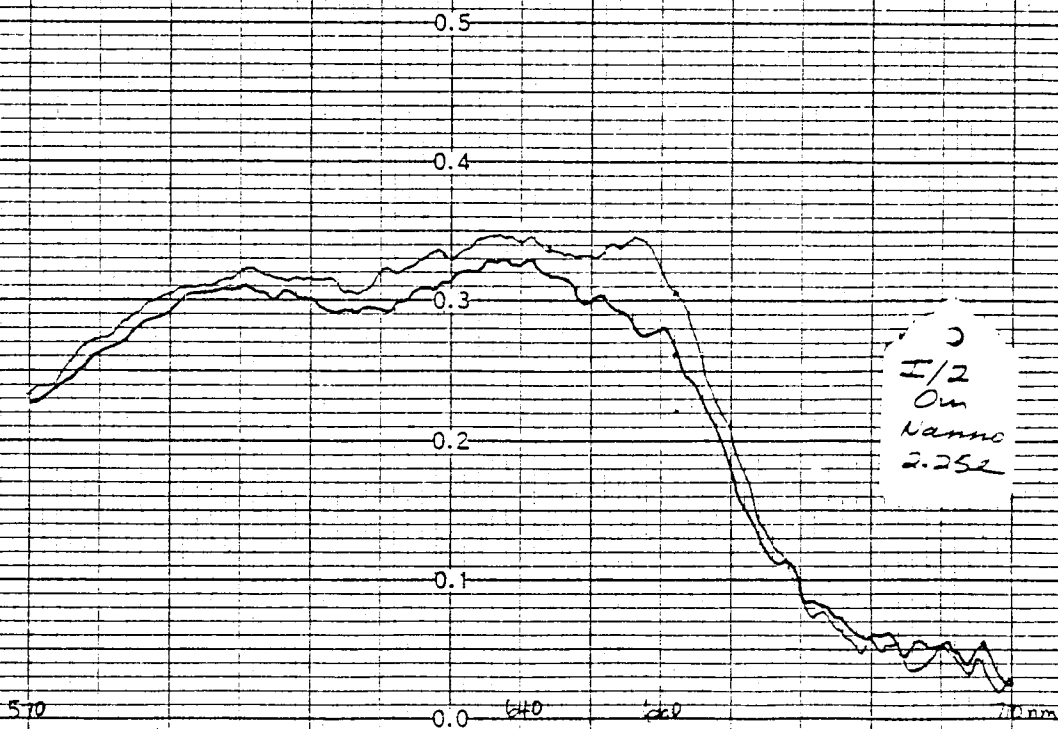


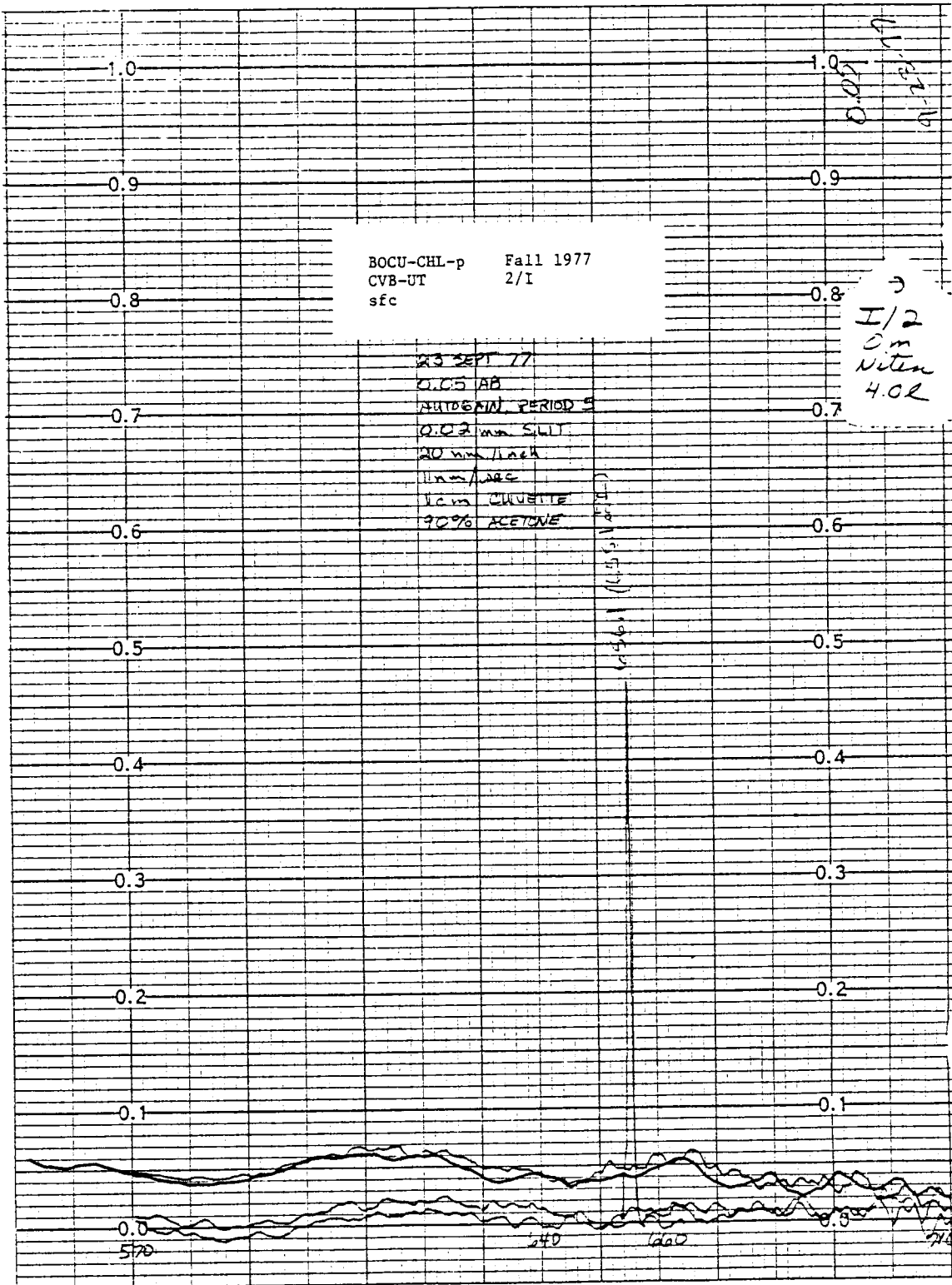


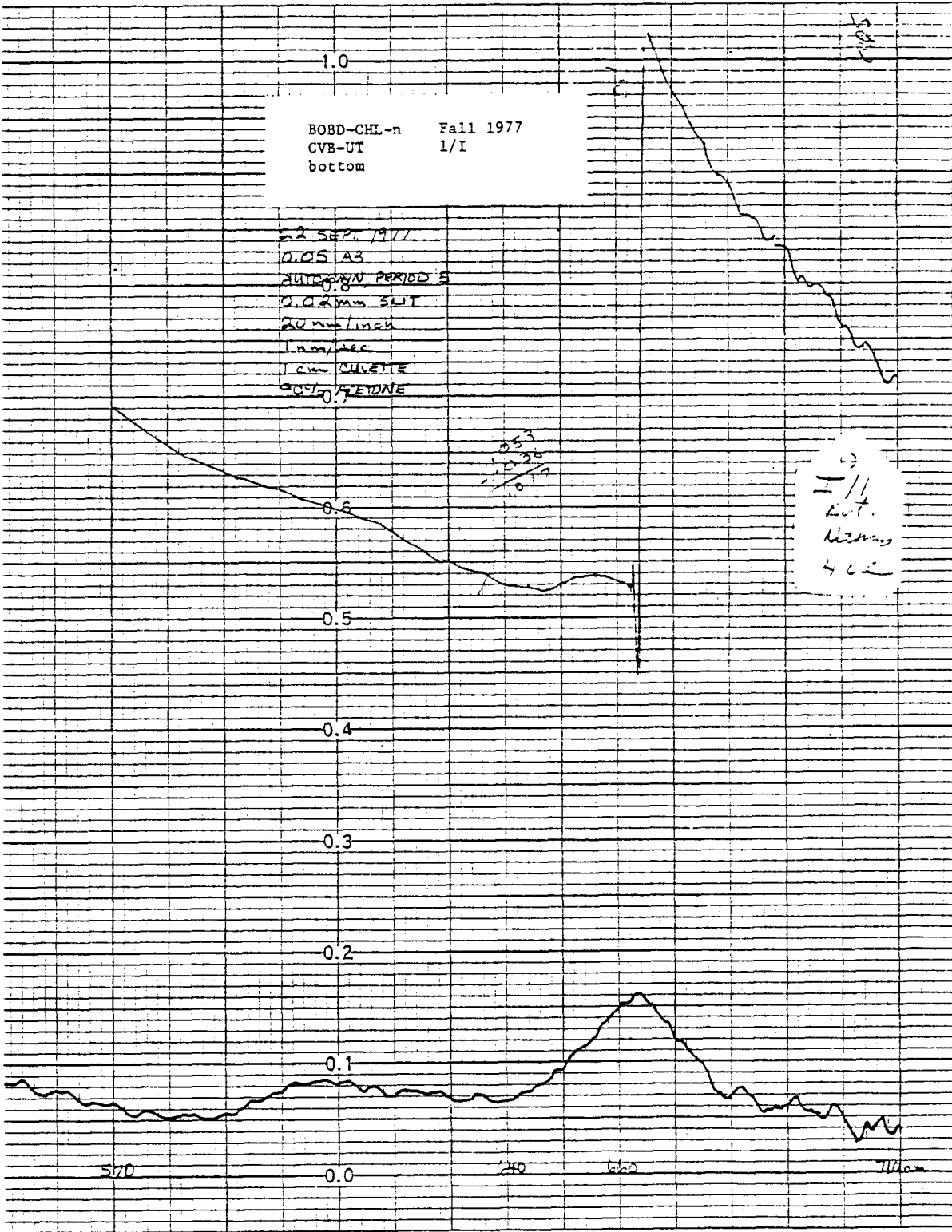


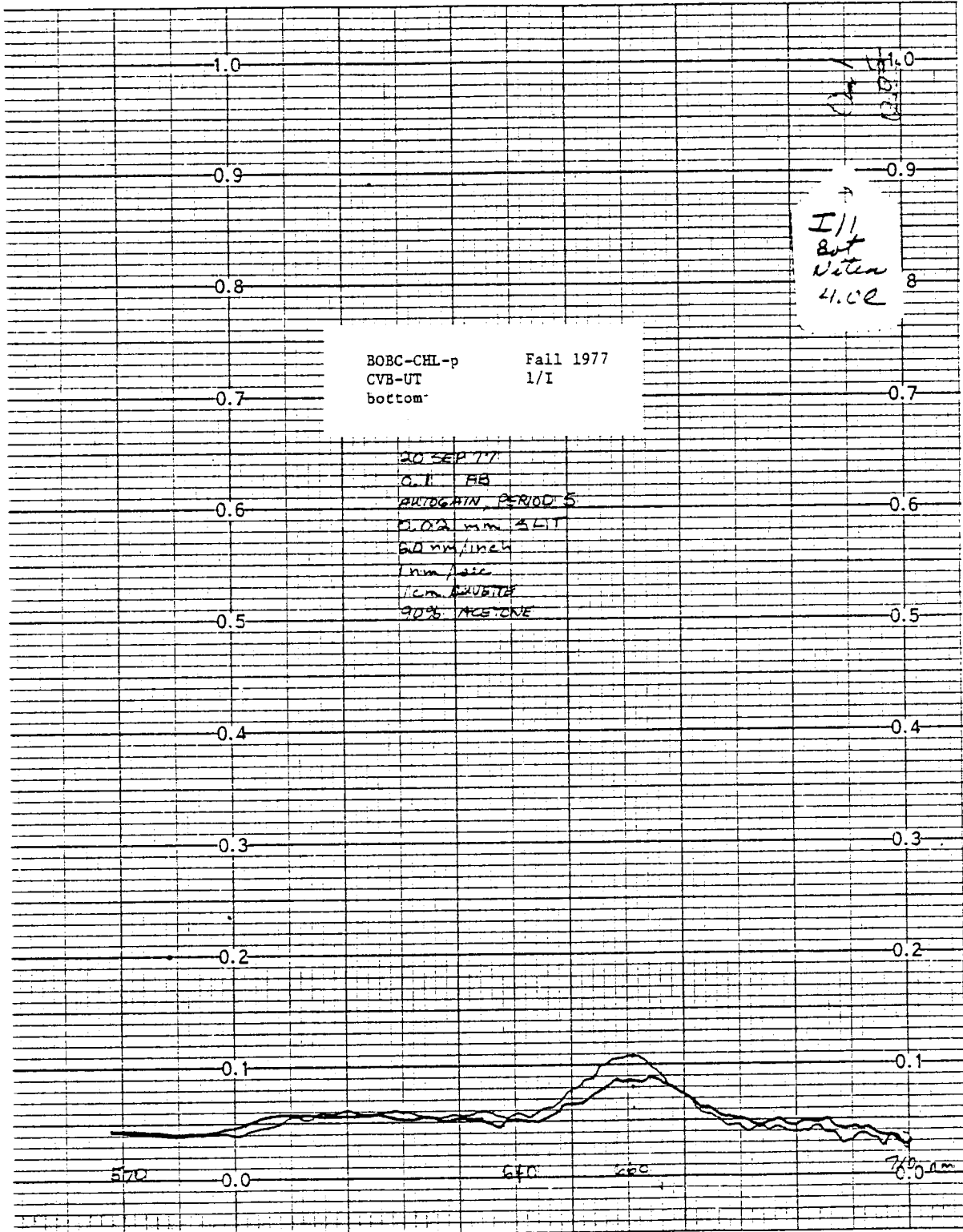
BOCV-CHL-n      Fall 1977  
CVB-UT            2/I  
sic

23 SEPT 77  
0.05 AB  
AUTOGAIN PERIOD 5  
0.02 mm SLIT  
20 nm/inch  
1 nm/sec  
1 cm CUVETTE  
2% ACETONE







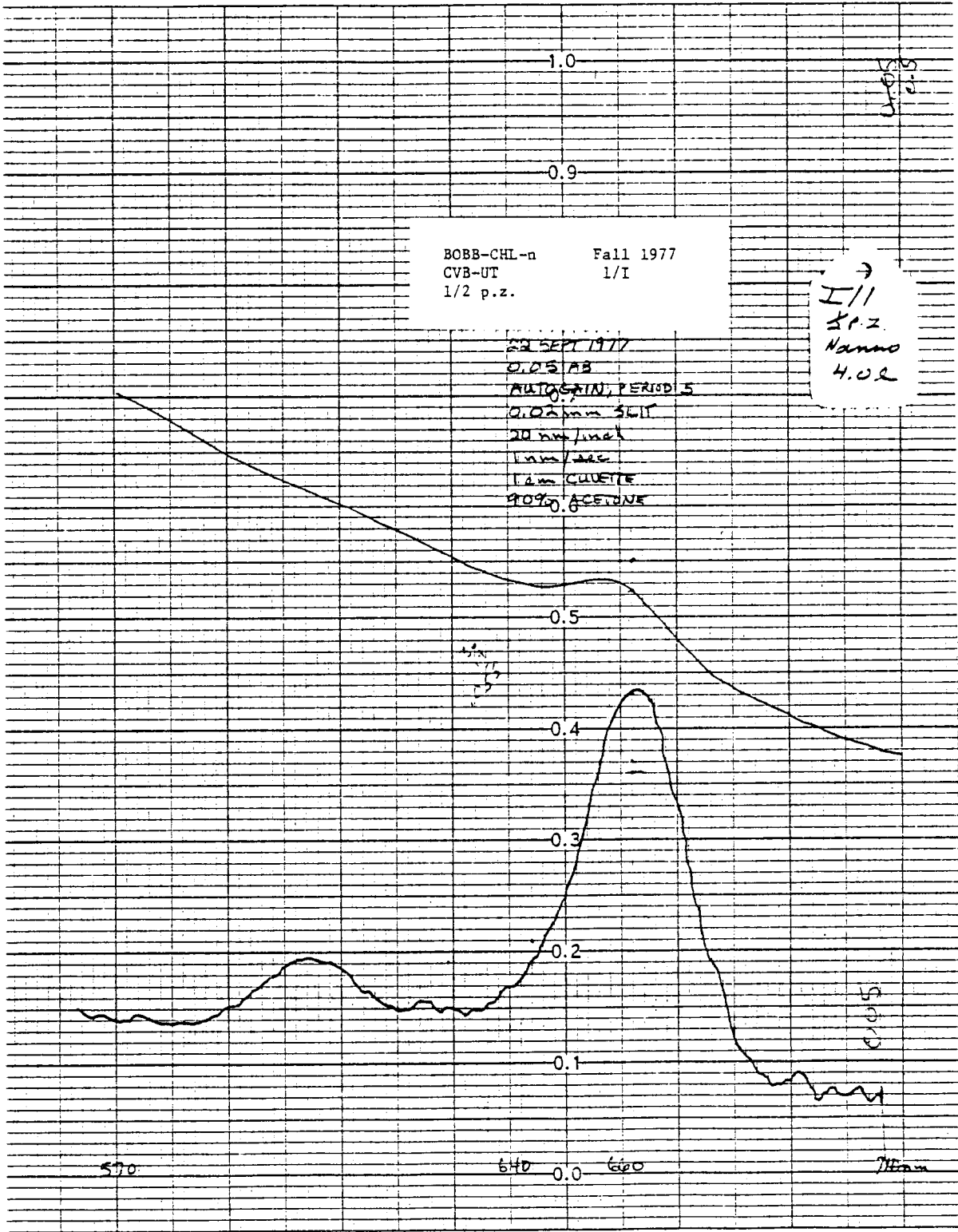


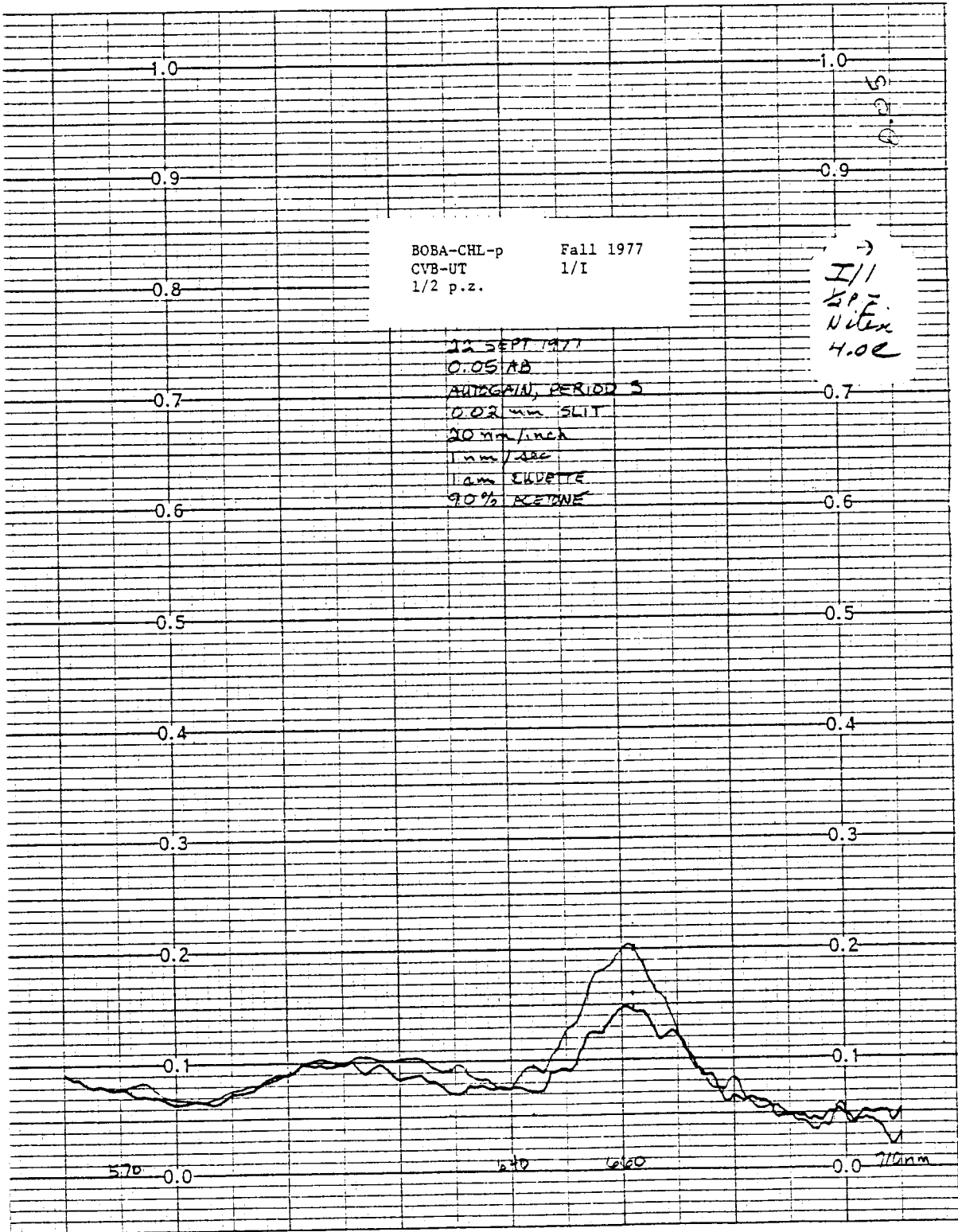


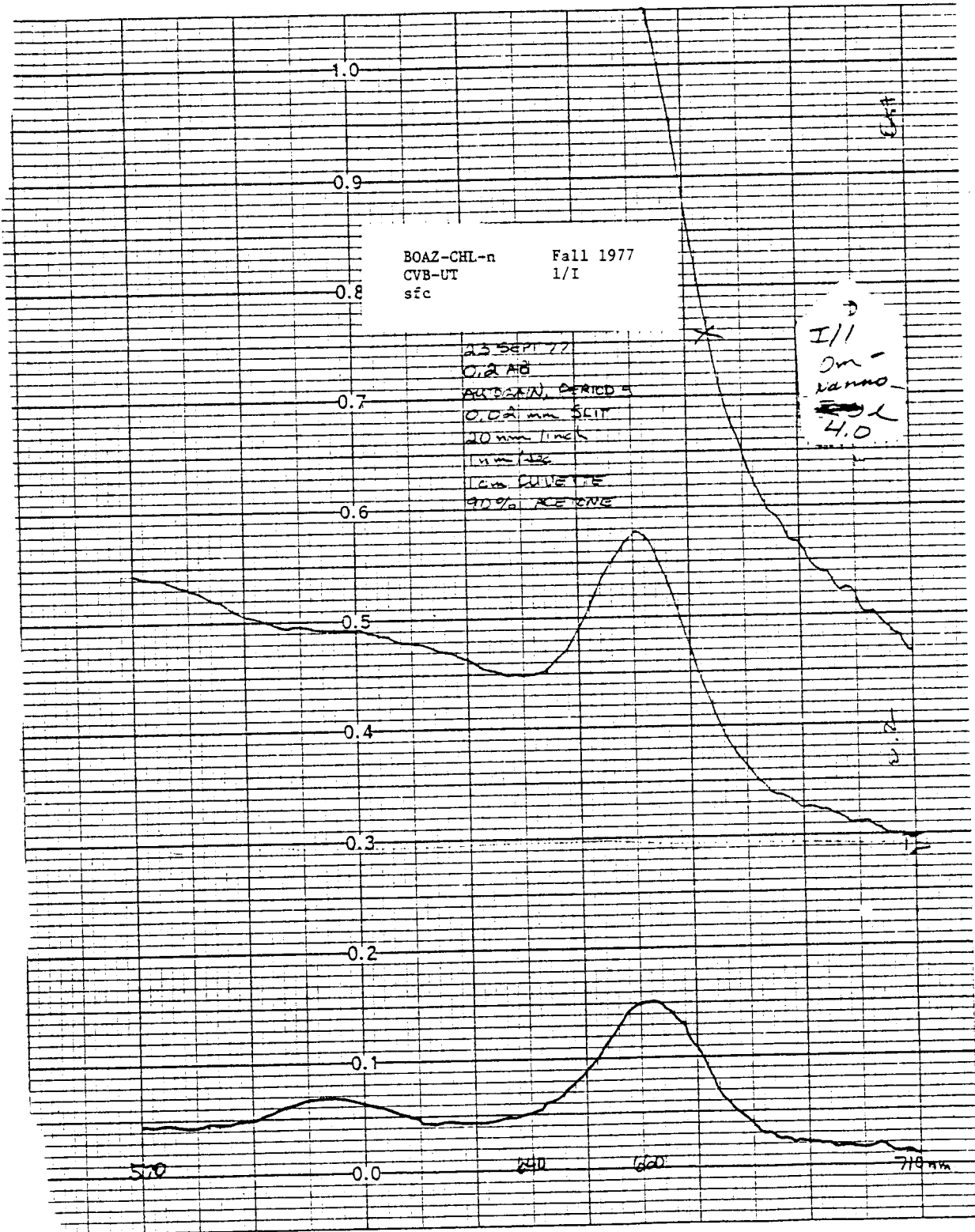
BOBB-CHL-n Fall 1977  
CVB-UT 1/I  
1/2 p.z.

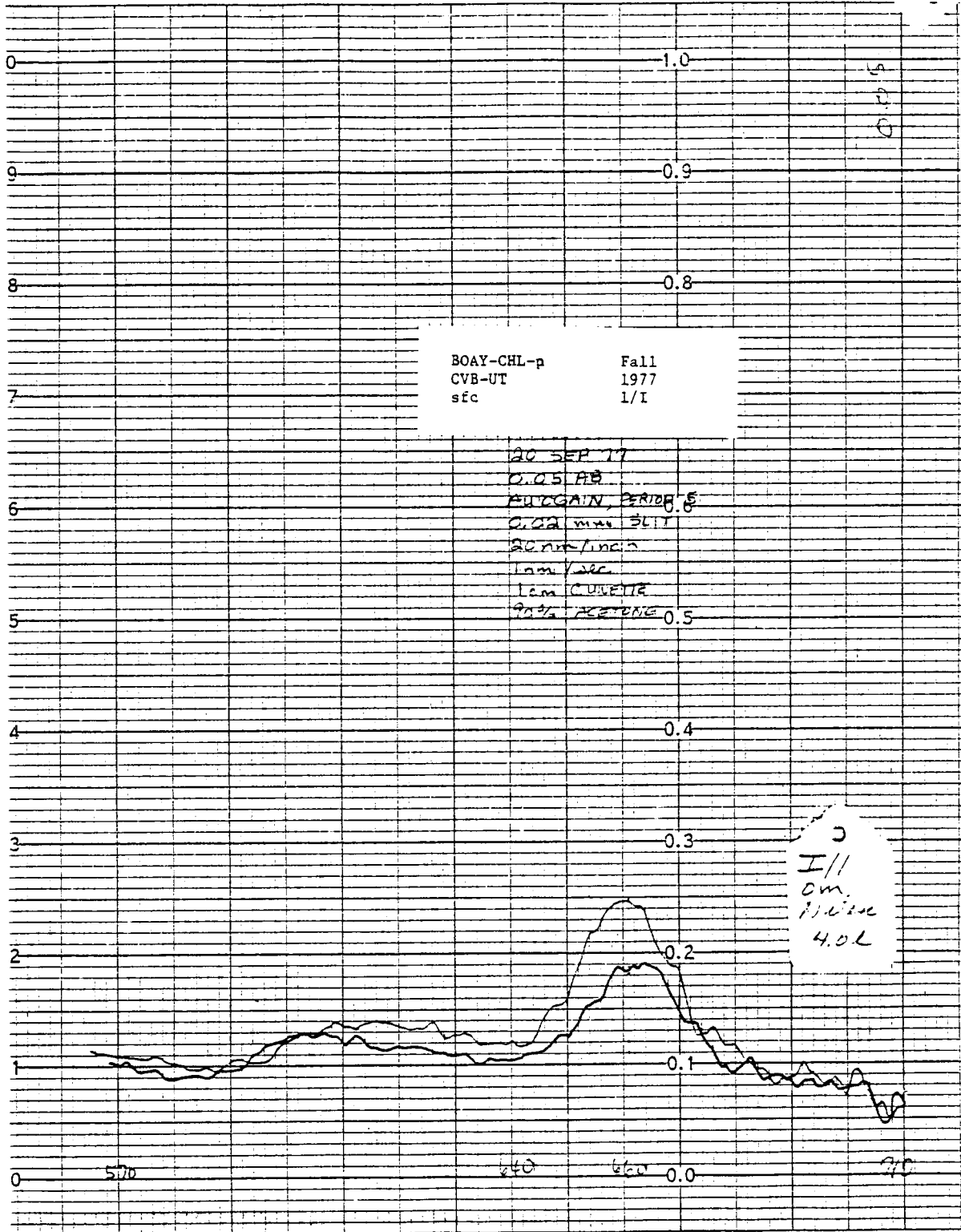
23 SEPT 1977  
0.05 AB  
AUTOSCAN, PERIOD 5  
0.02mm SLIP  
20 mm/min  
1mm/sec  
1.0m CURVE  
90% ACETONE

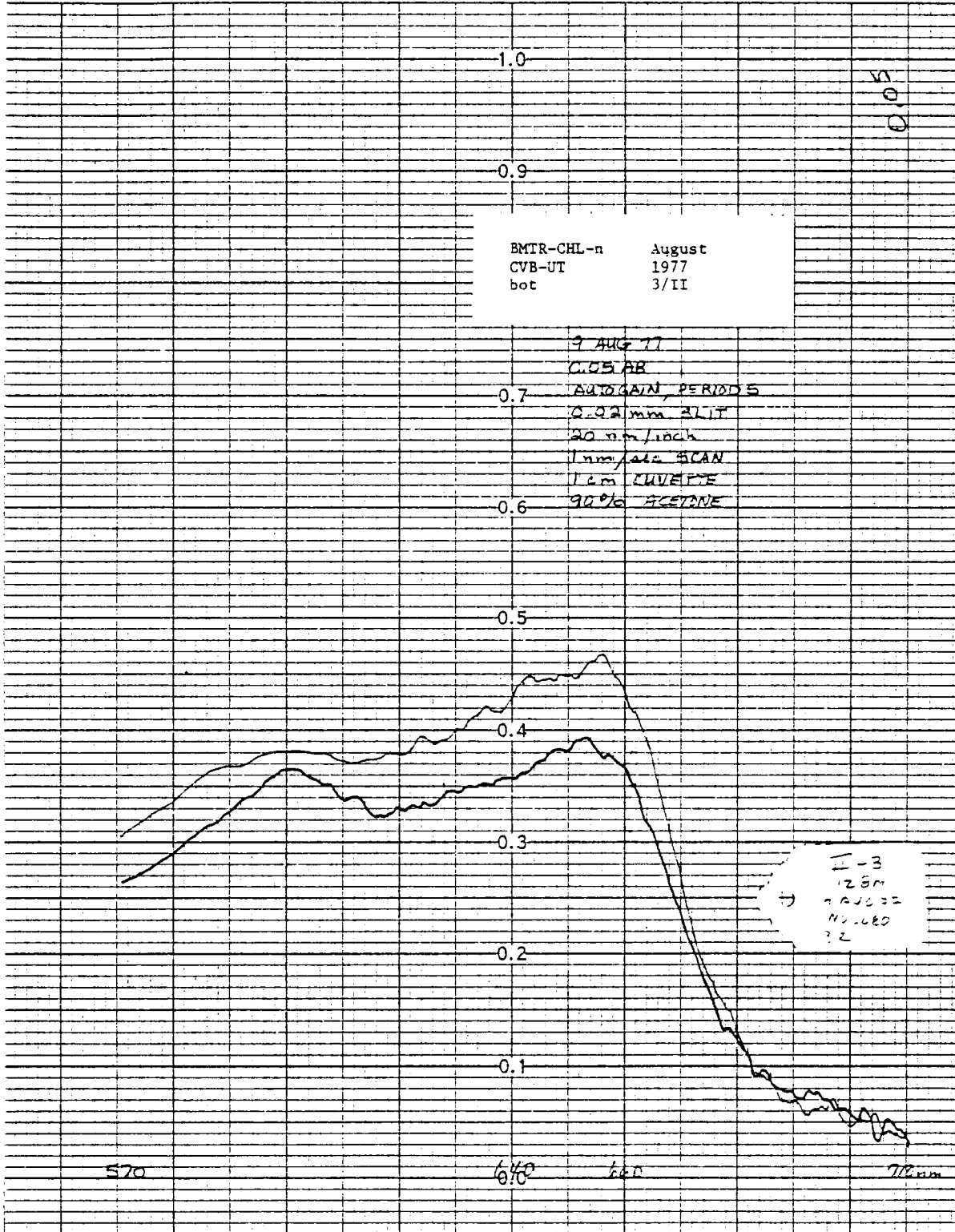
→  
I/I  
5 p.z.  
Nanno  
4.02

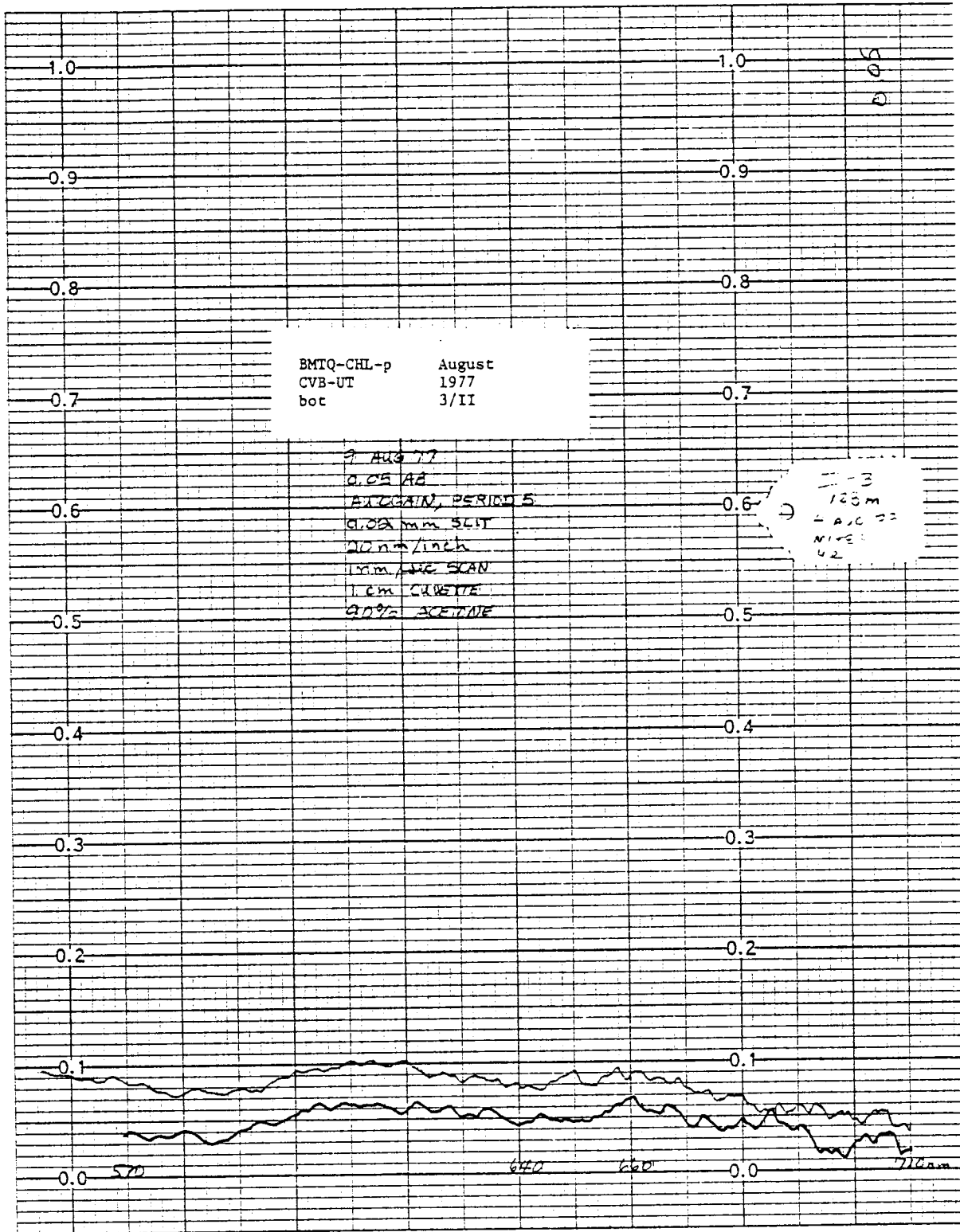


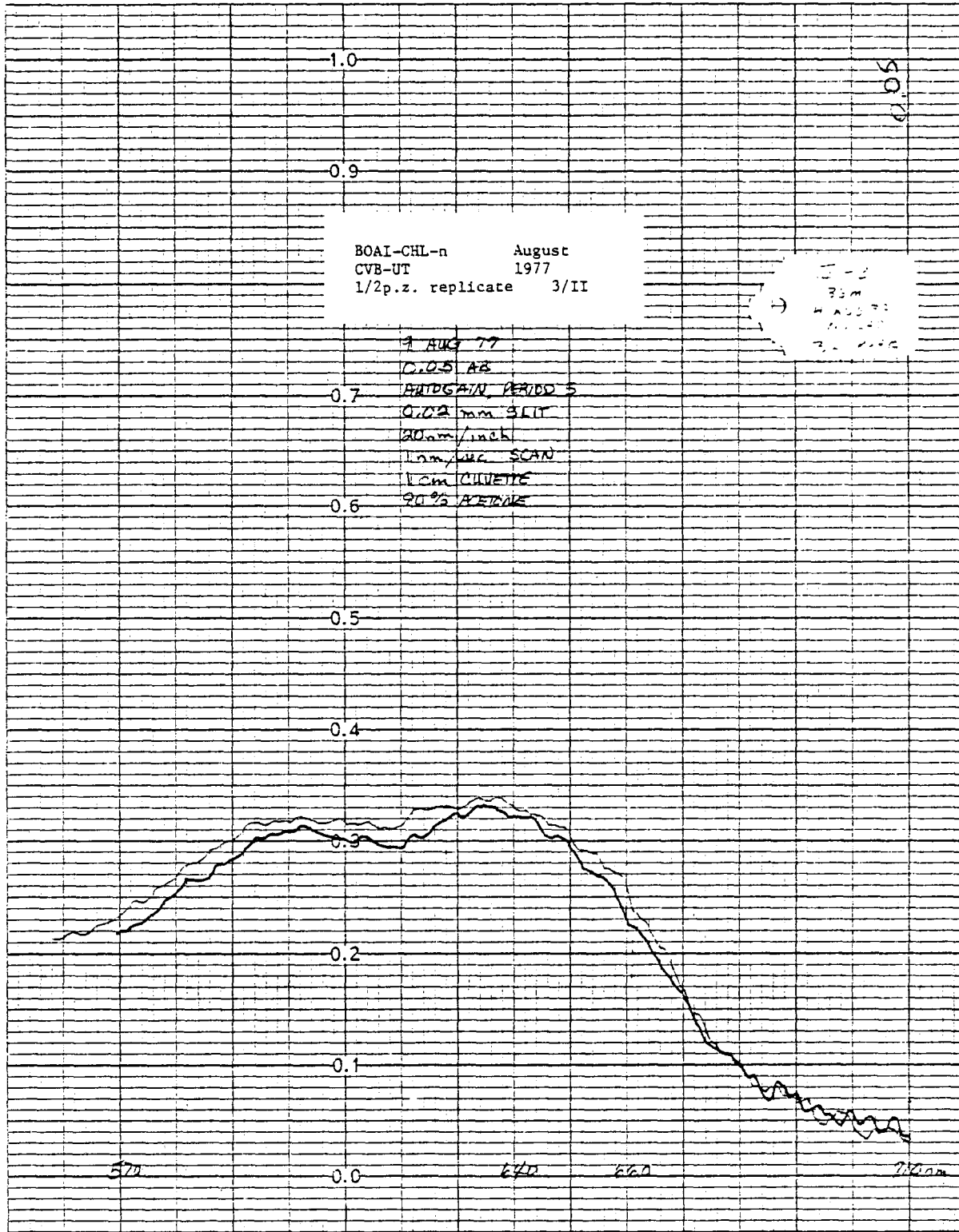


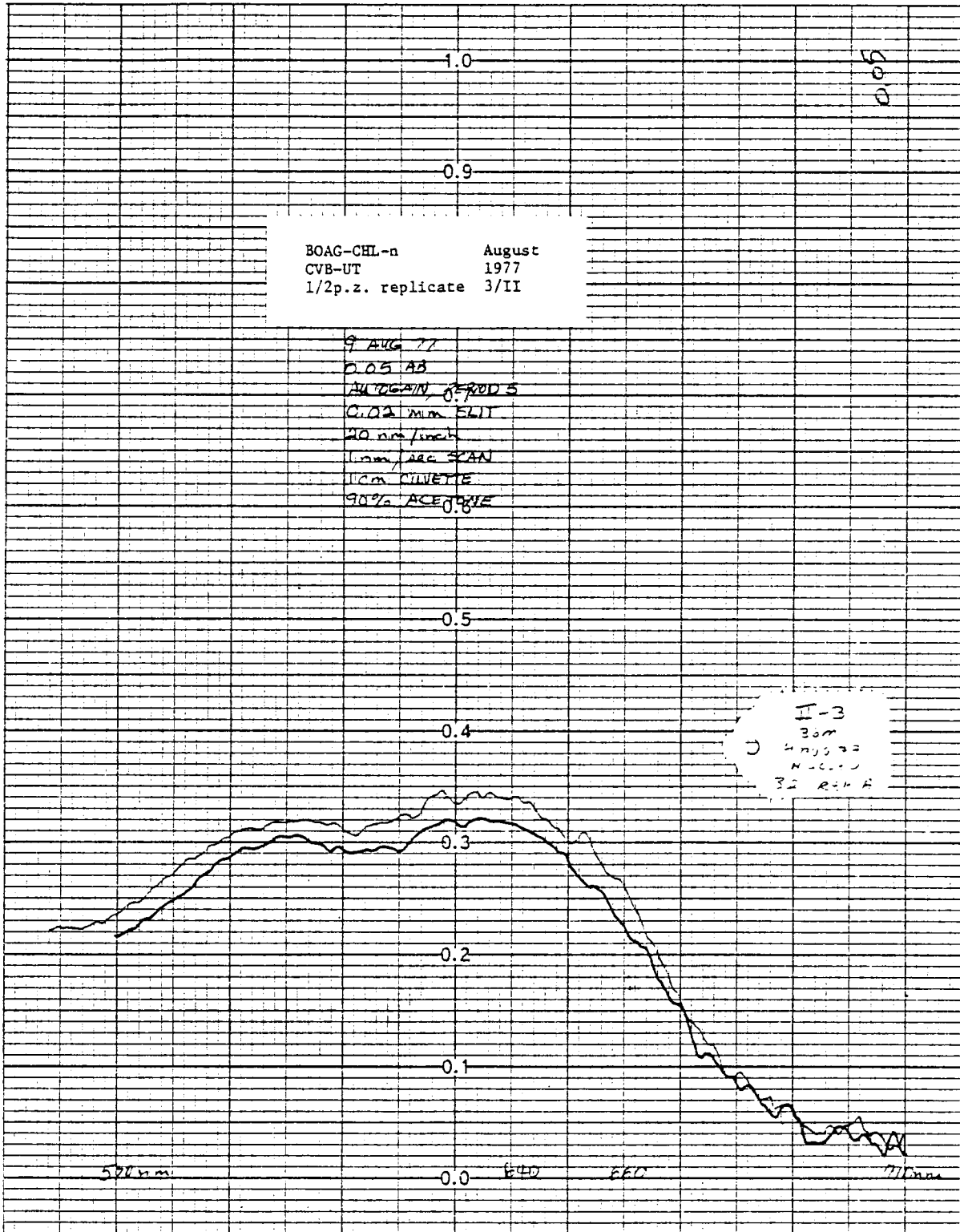




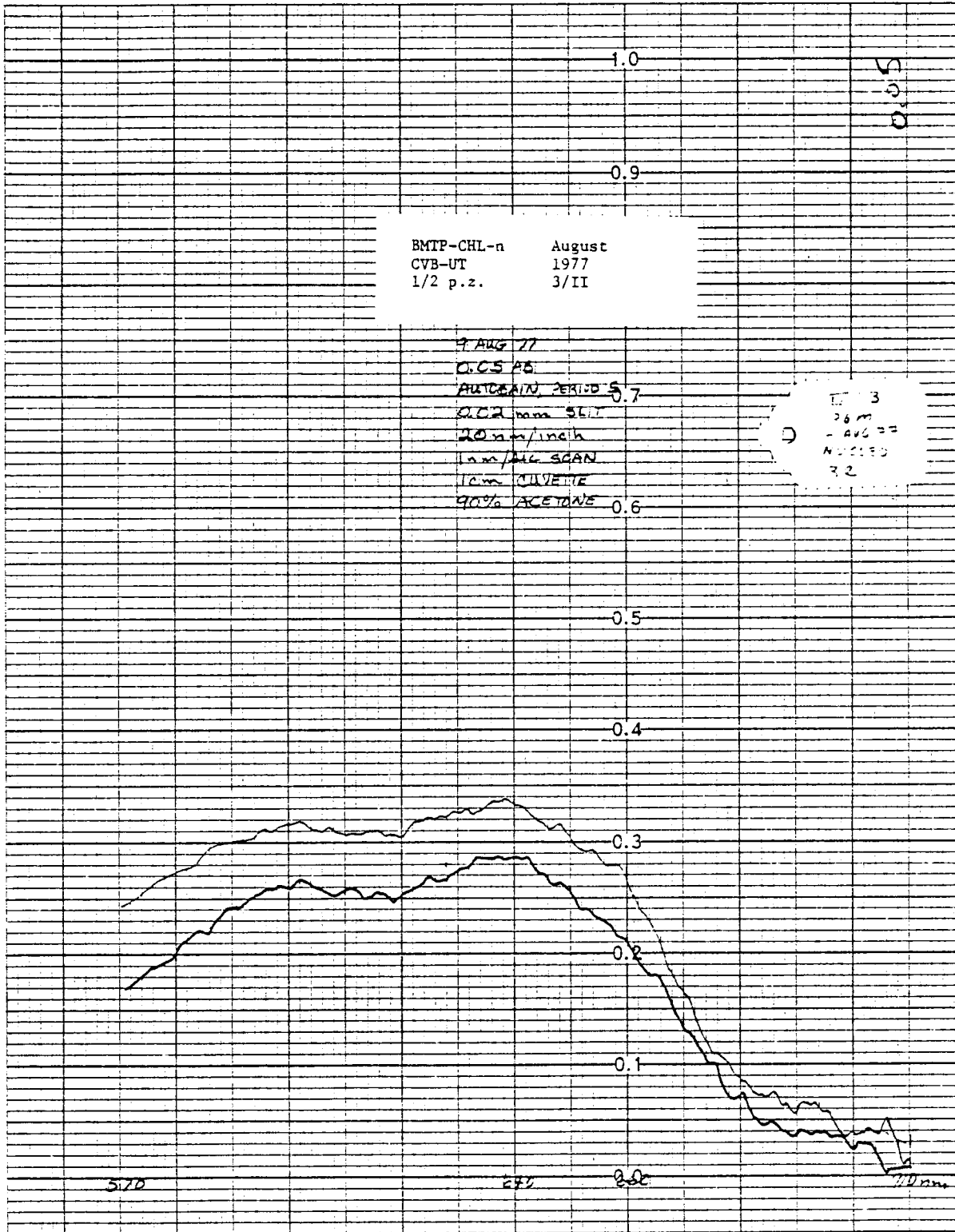


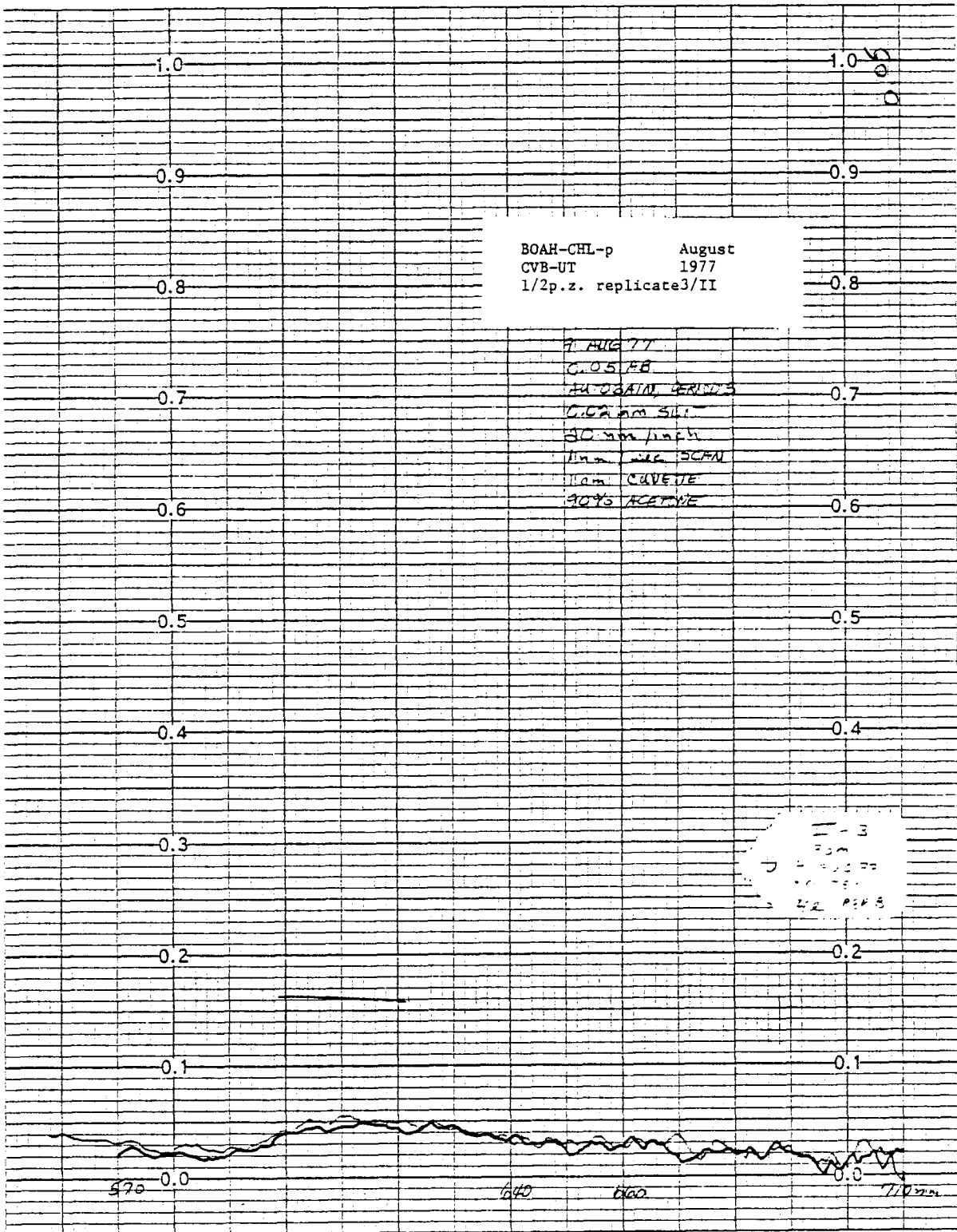


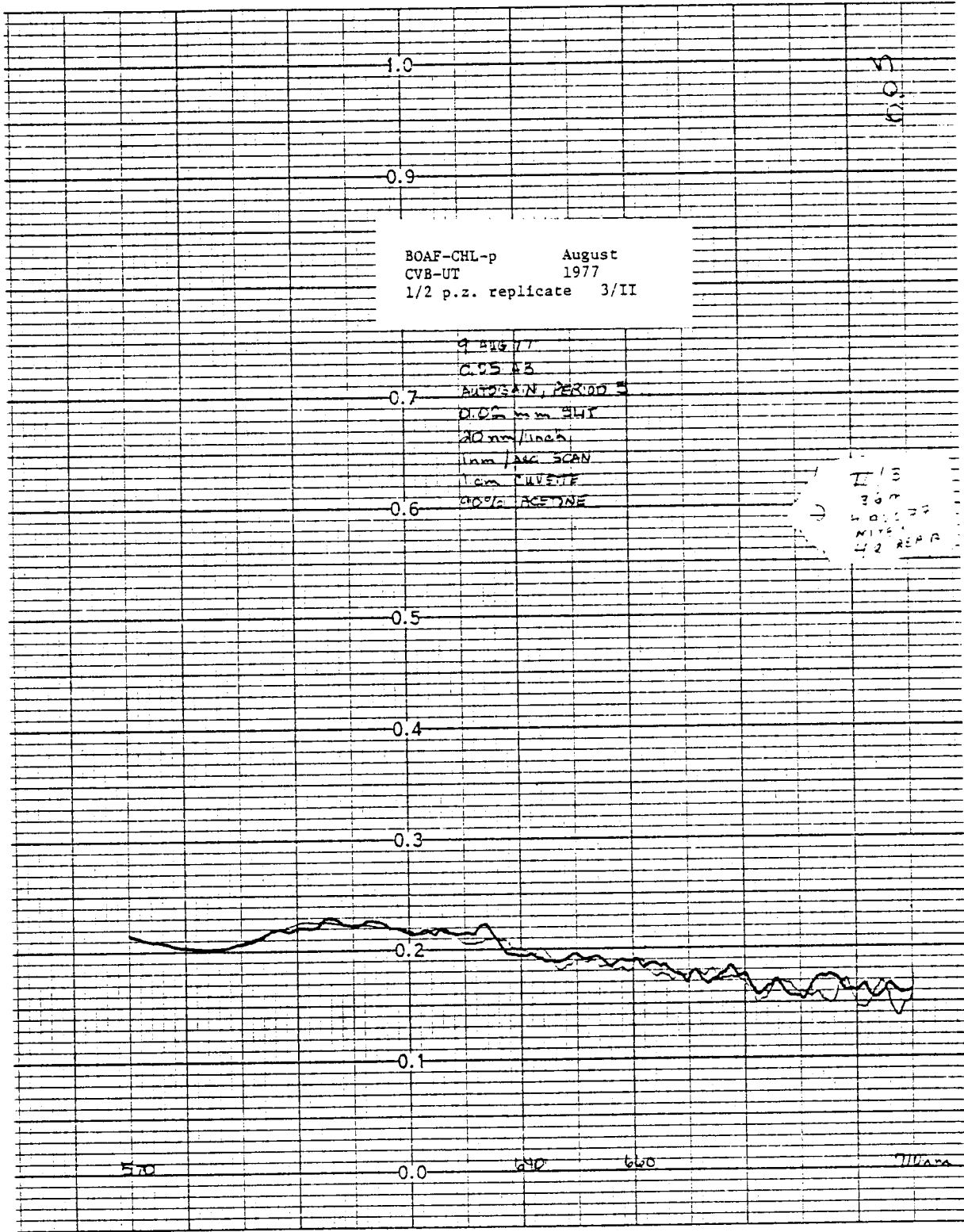


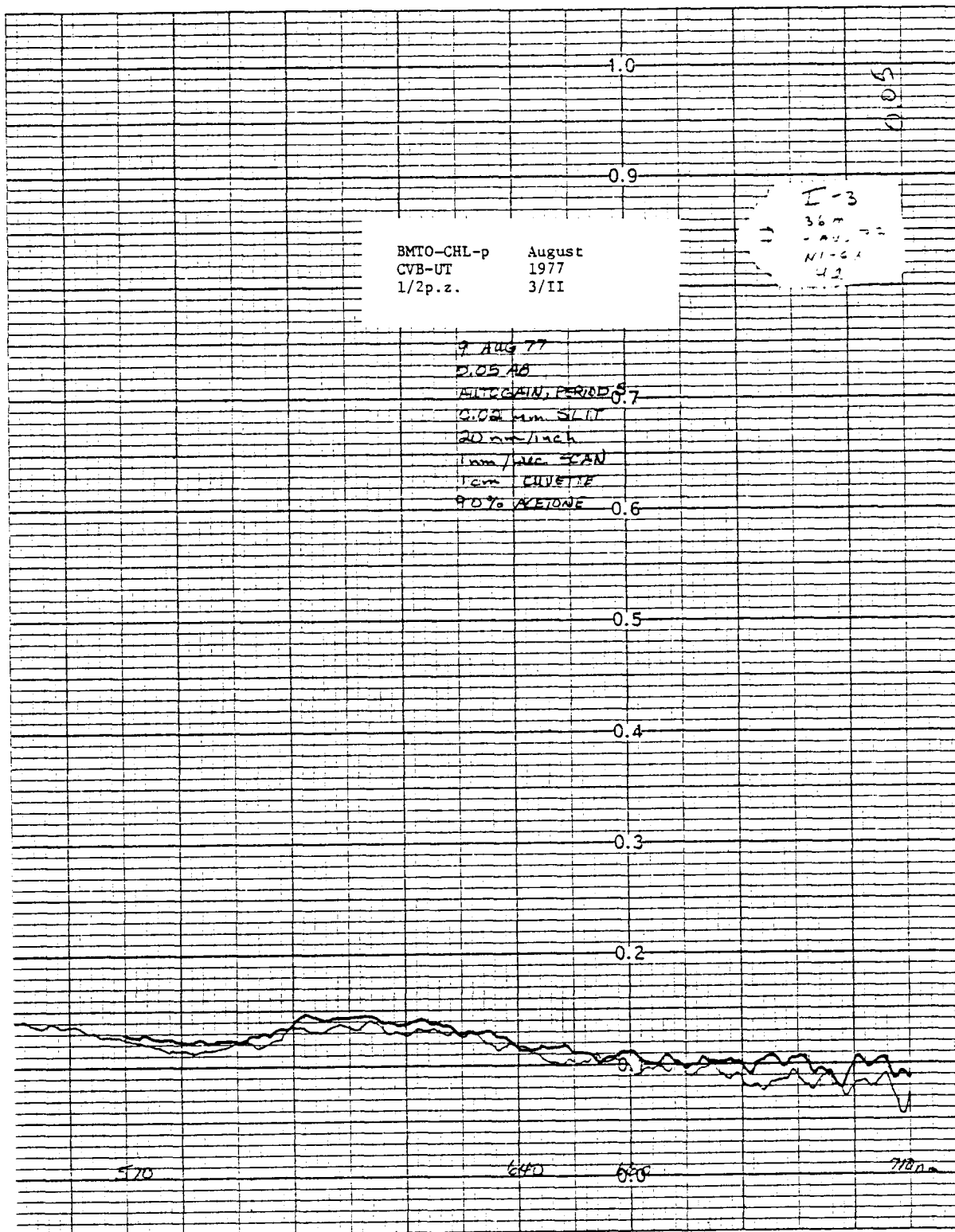


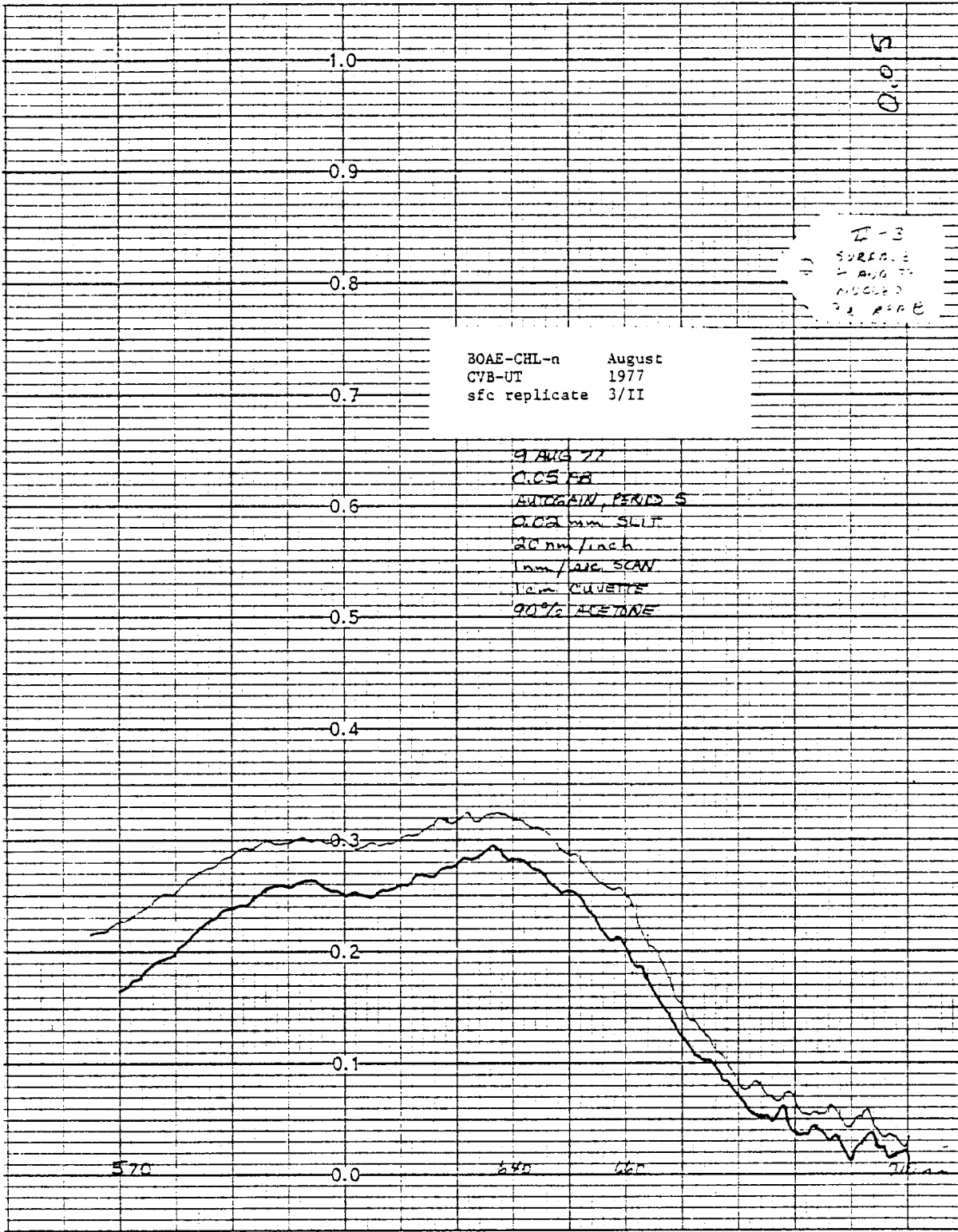


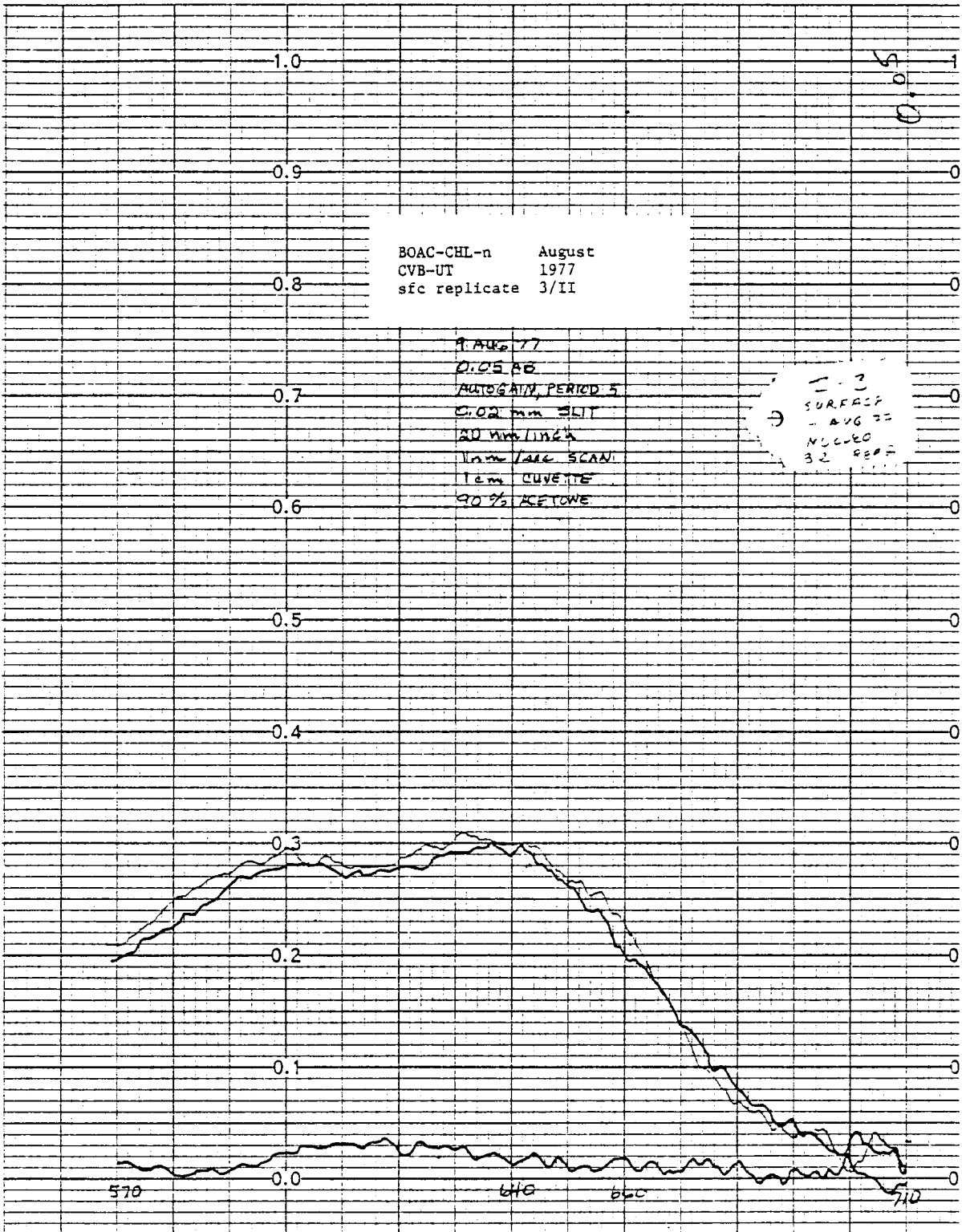


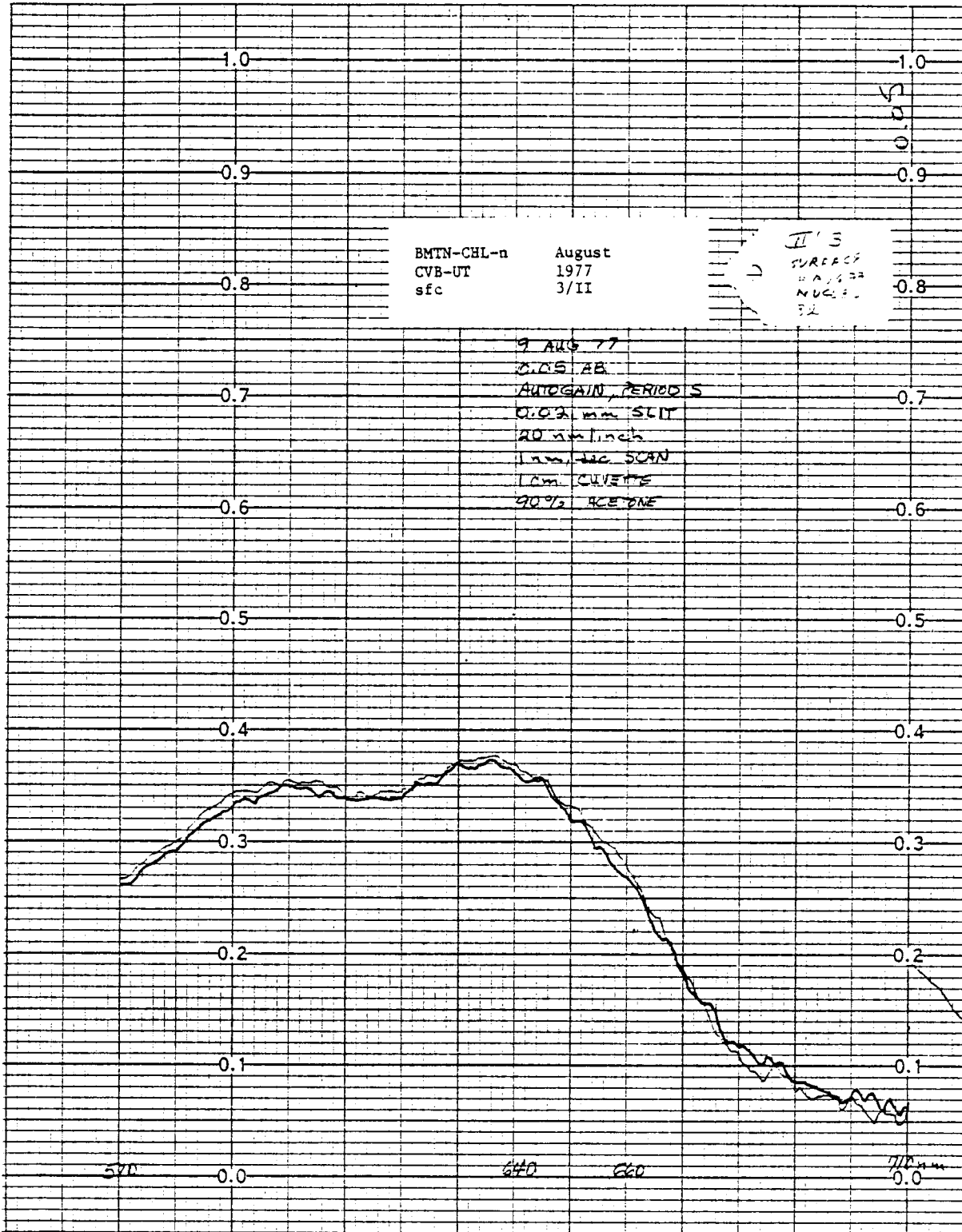






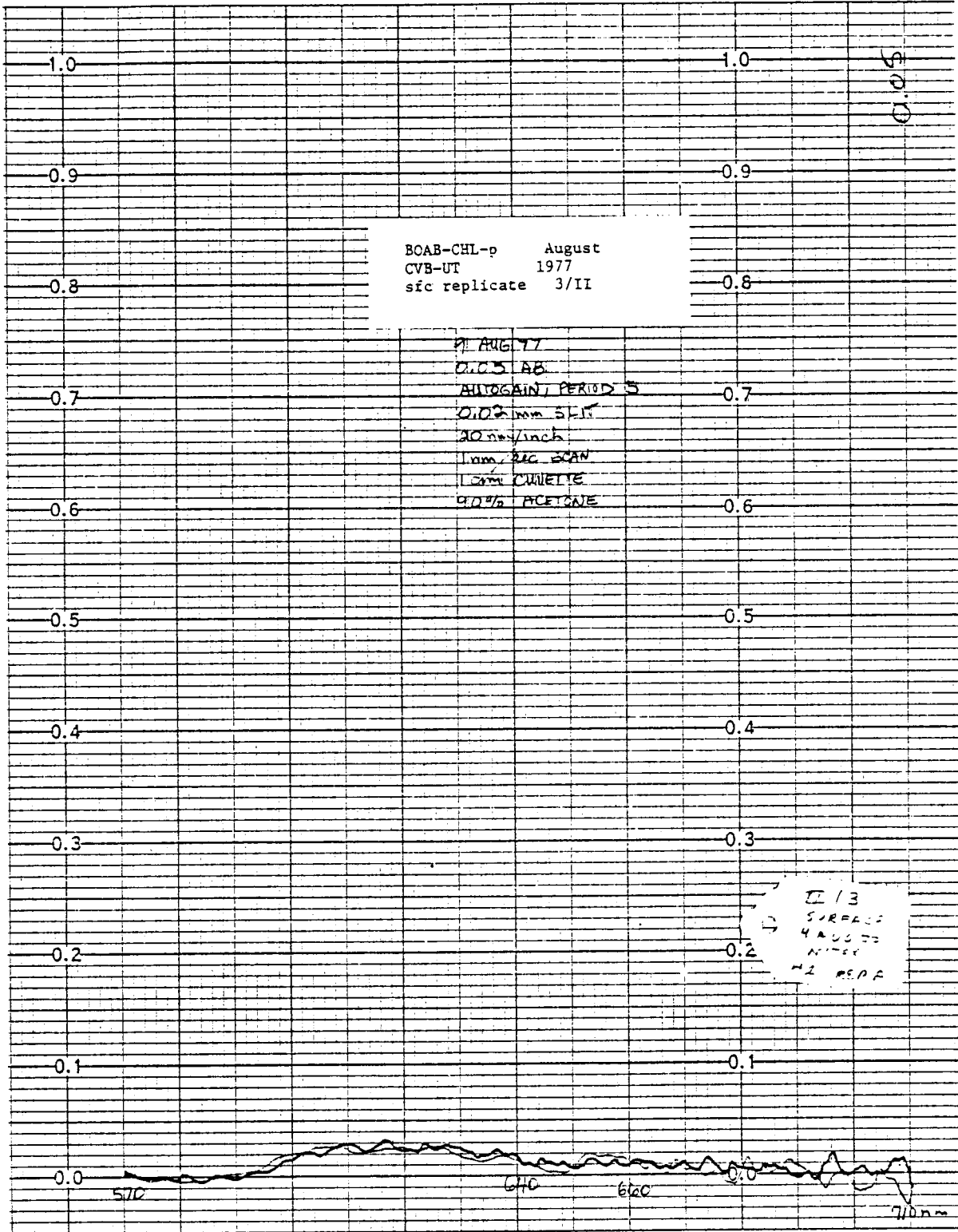


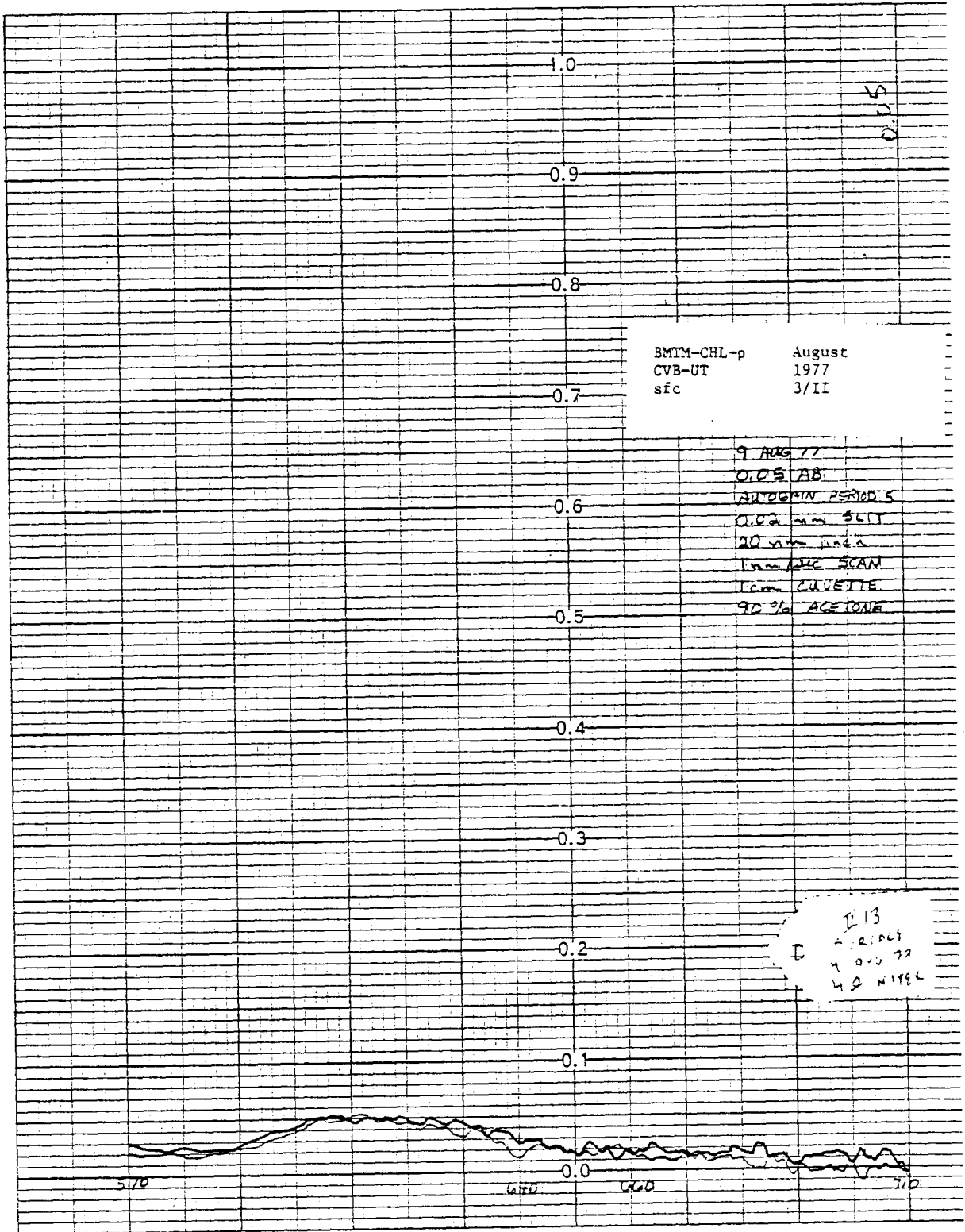


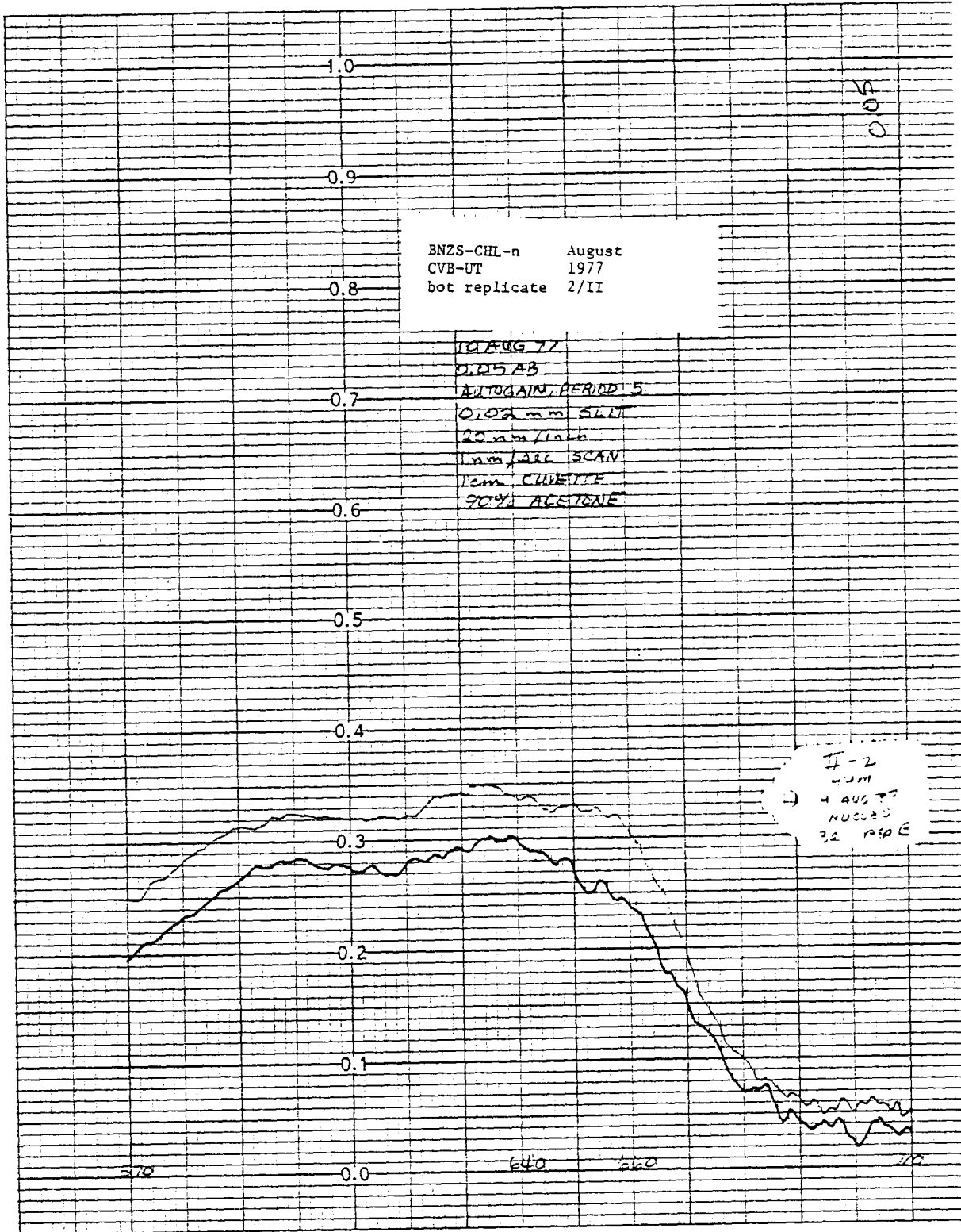


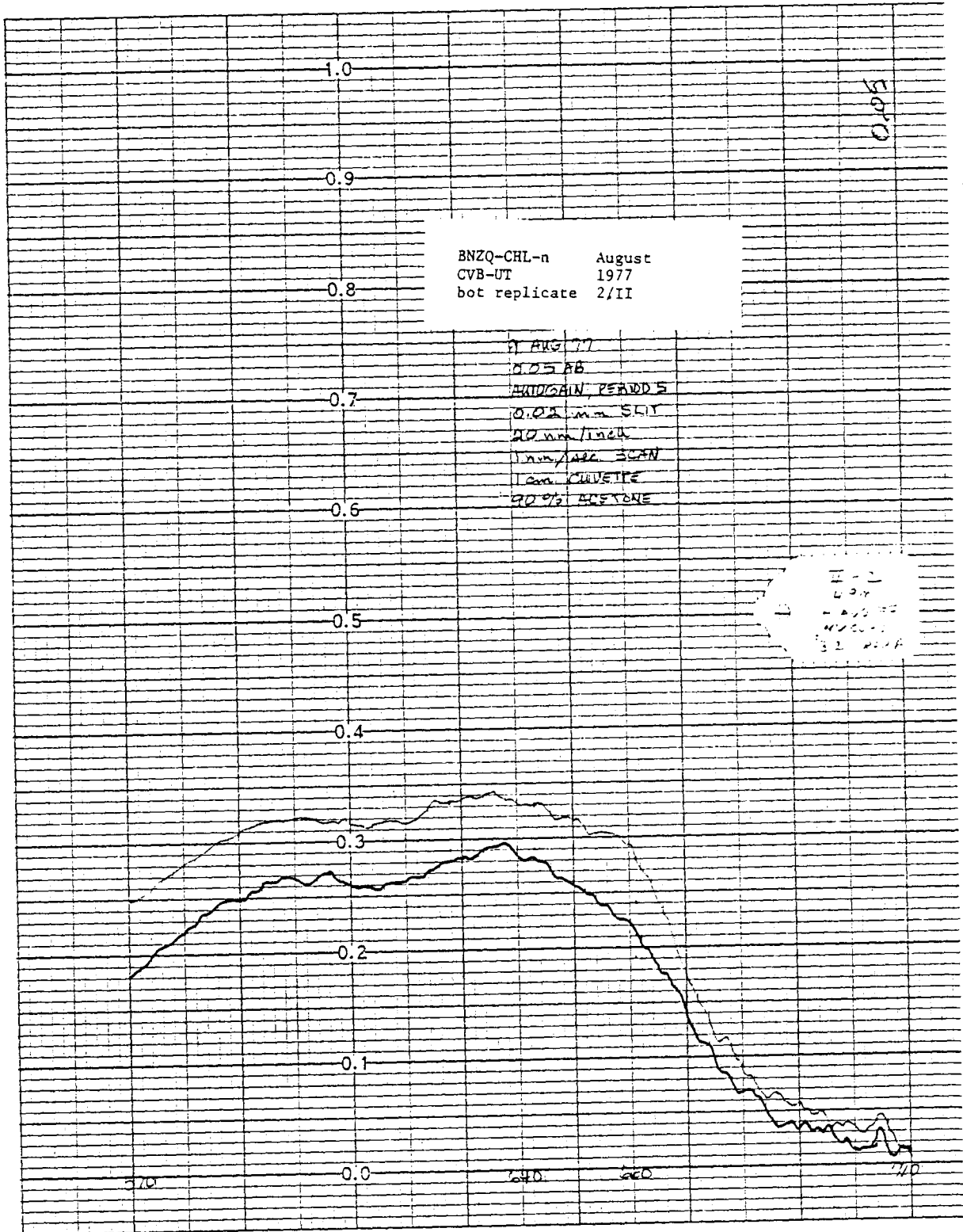


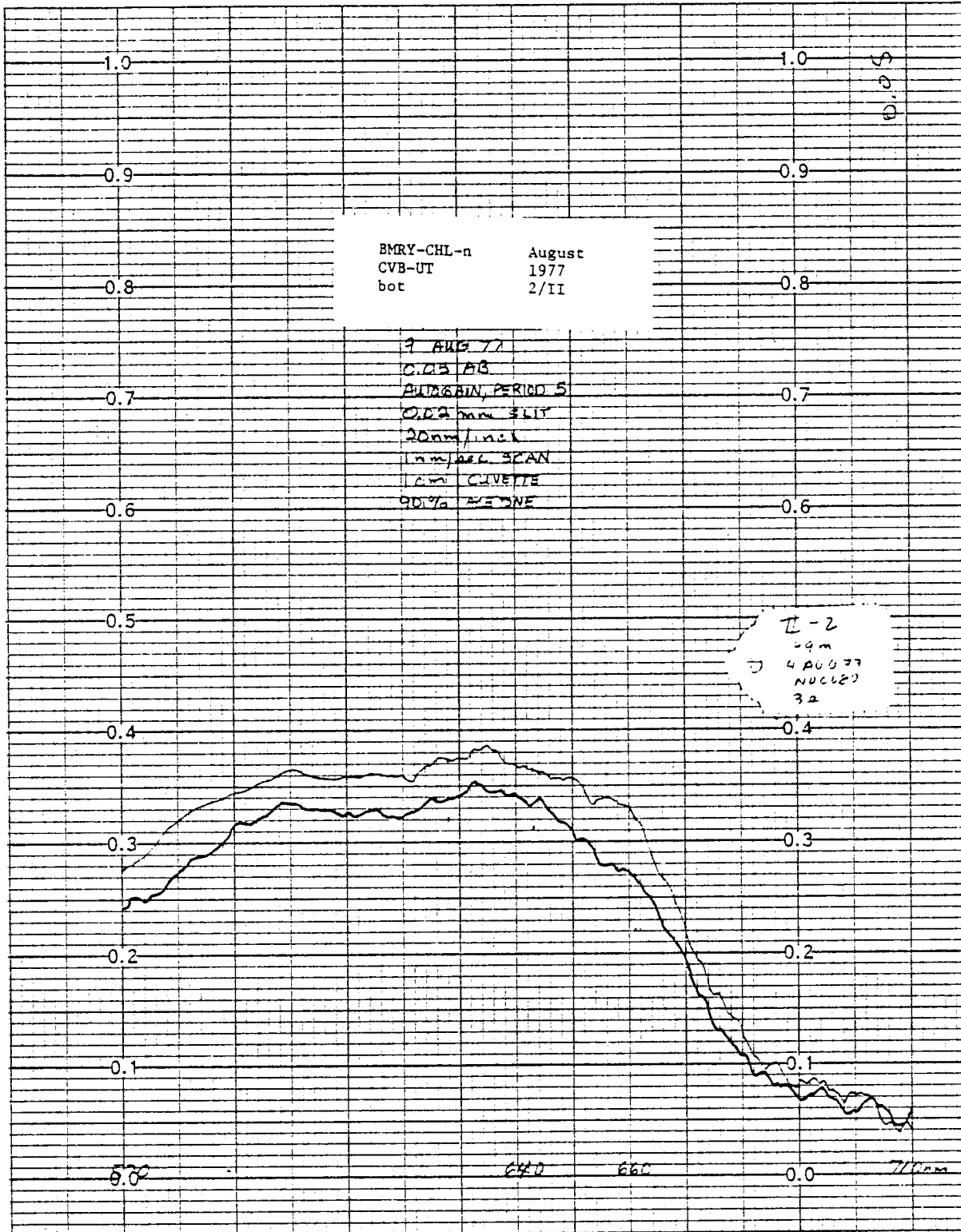


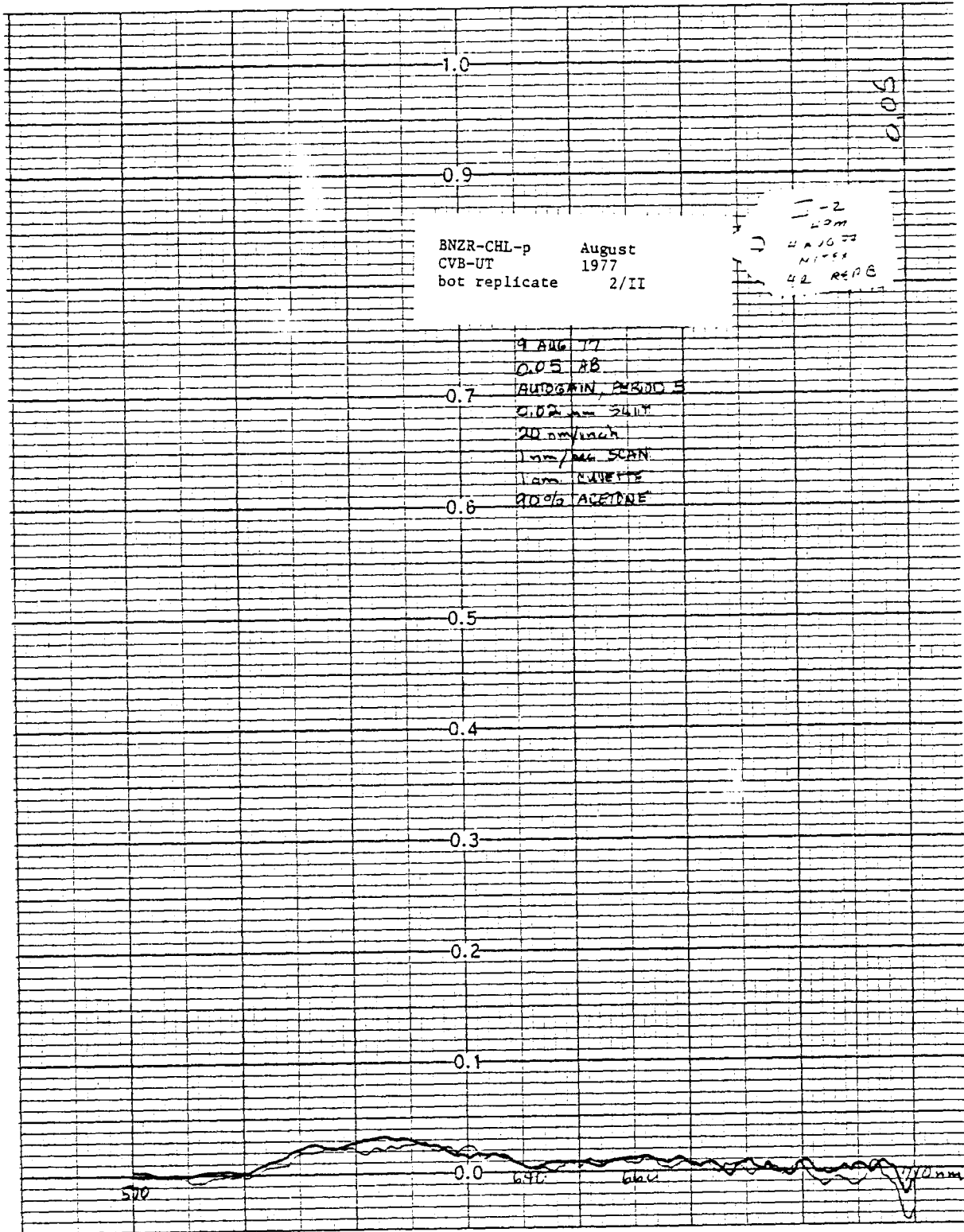












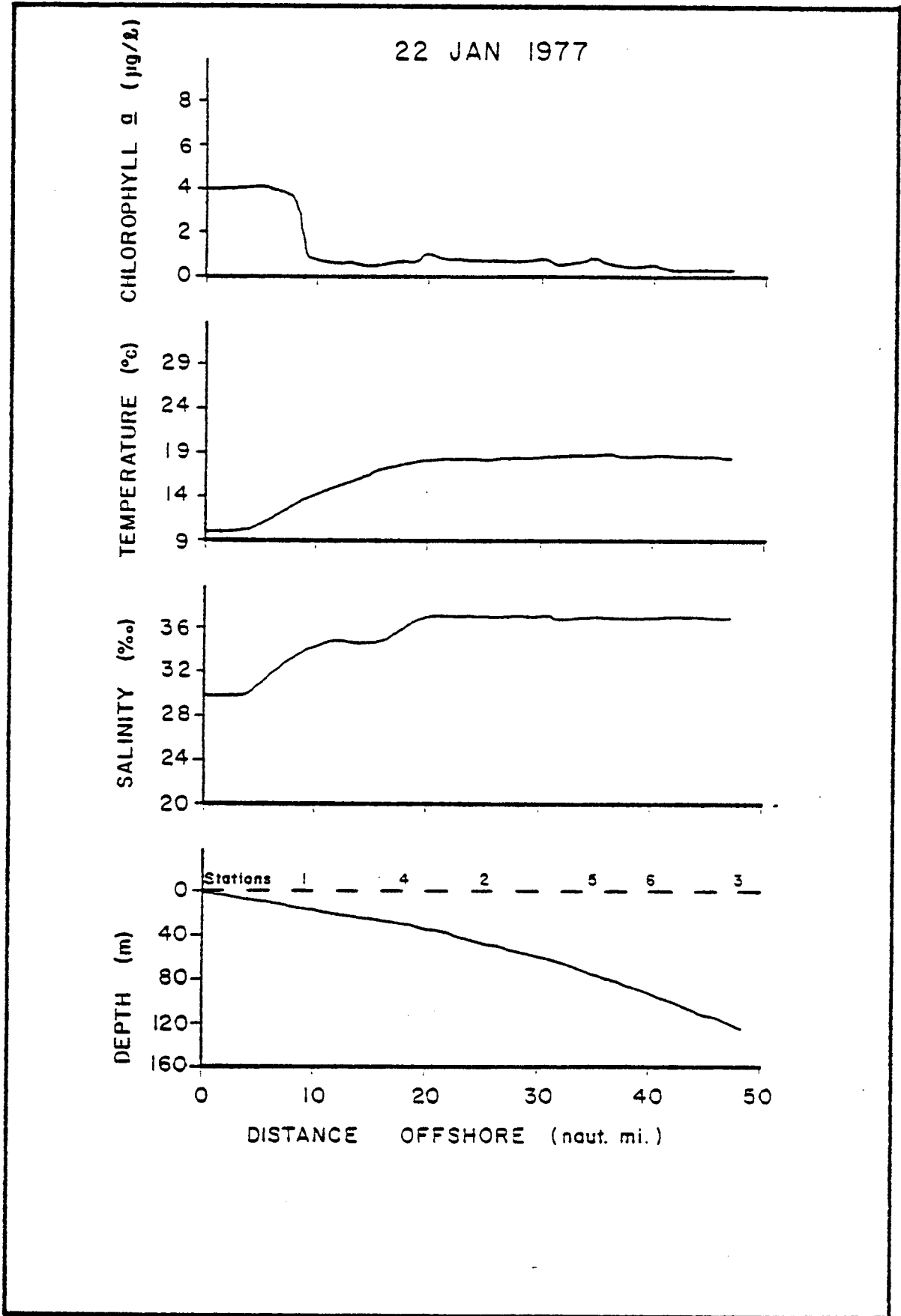
APPENDIX J

FIGURE 2

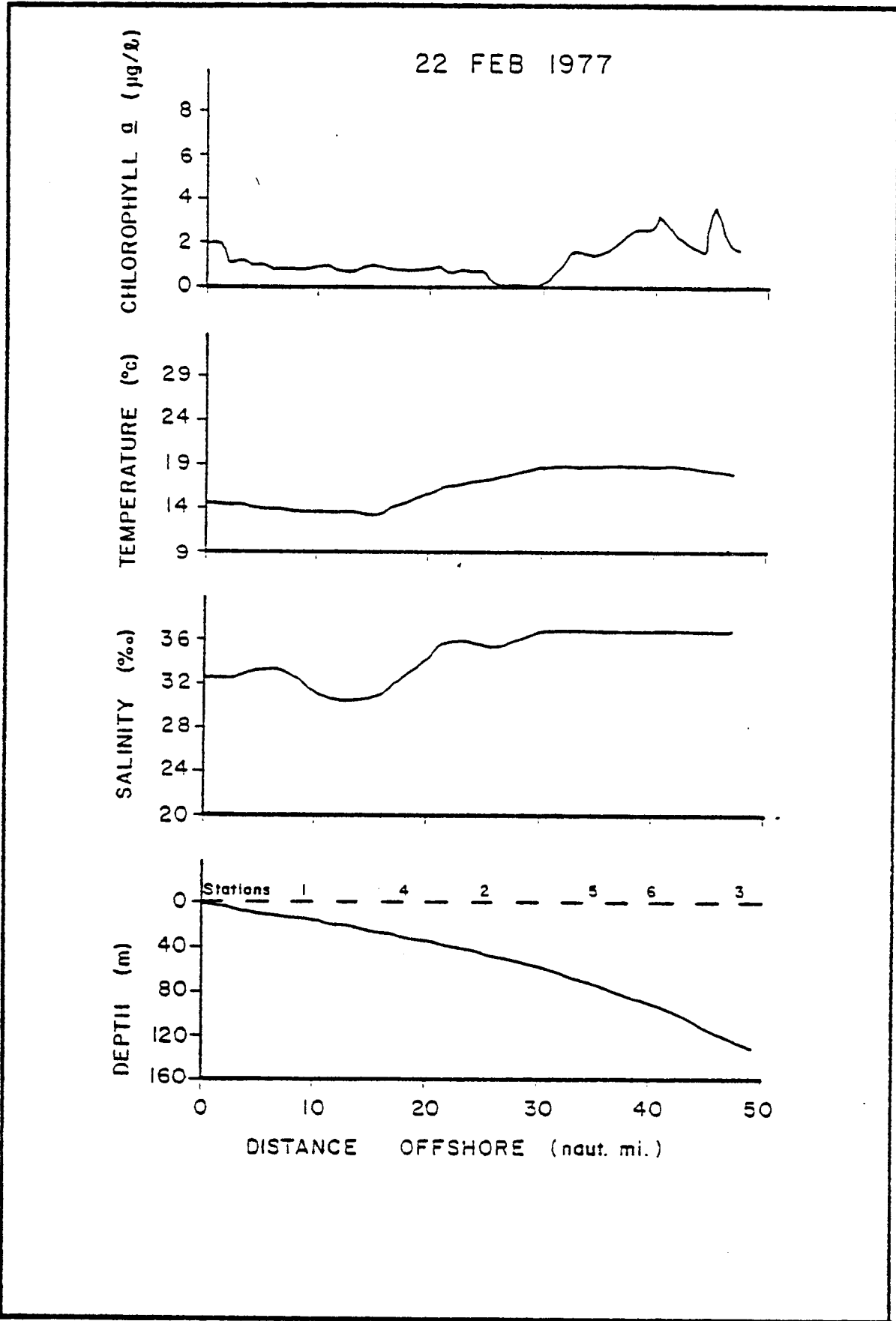
CONTINUOUS MEASUREMENTS ALONG TRANSECT II  
MONTHLY PLOTS OF CONTINUOUSLY MEASURED CHLOROPHYLL a,  
TEMPERATURE, SALINITY AND DEPTH ALONG TRANSECT II AT 2 m DEPTH.

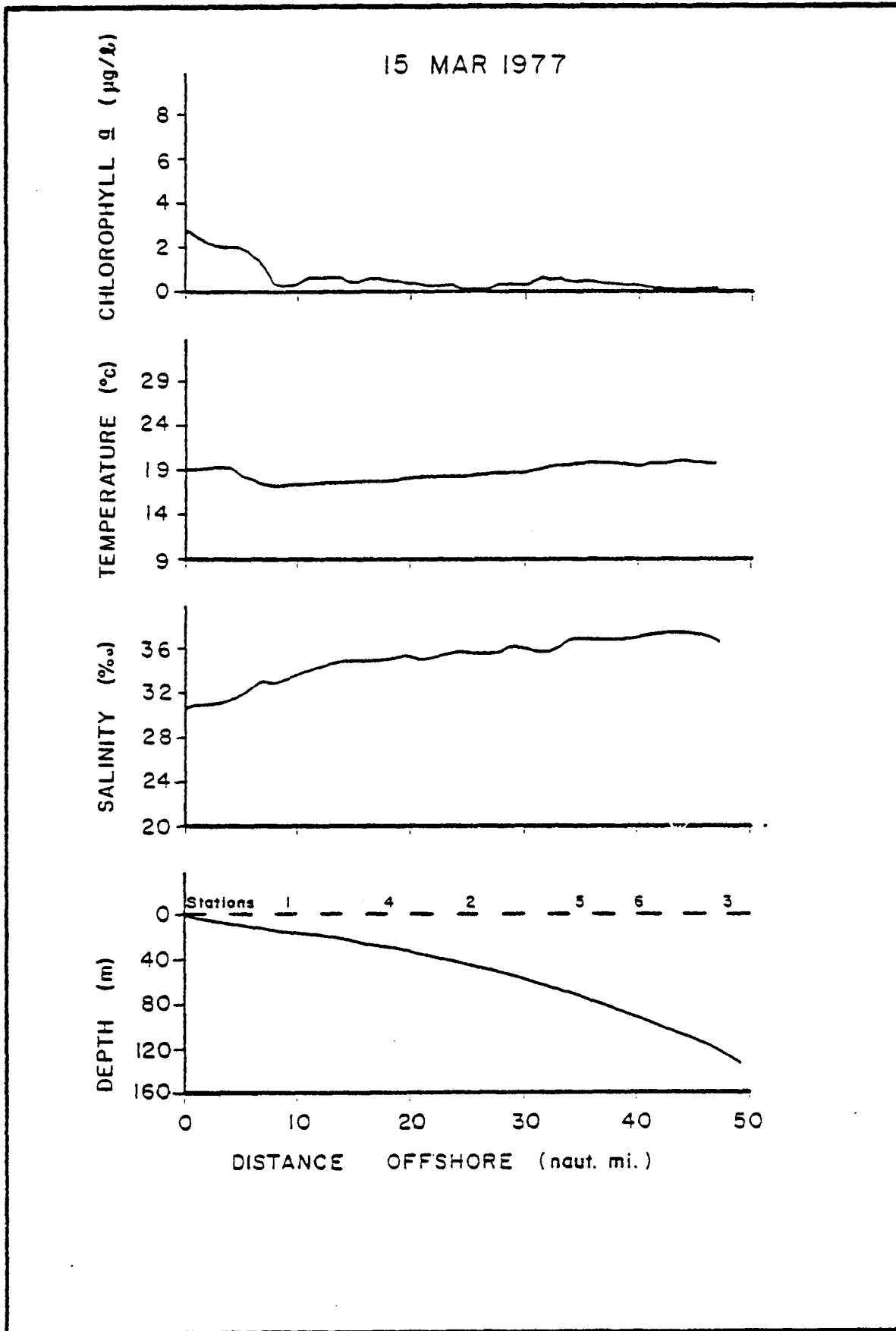
Explanation of Figure:

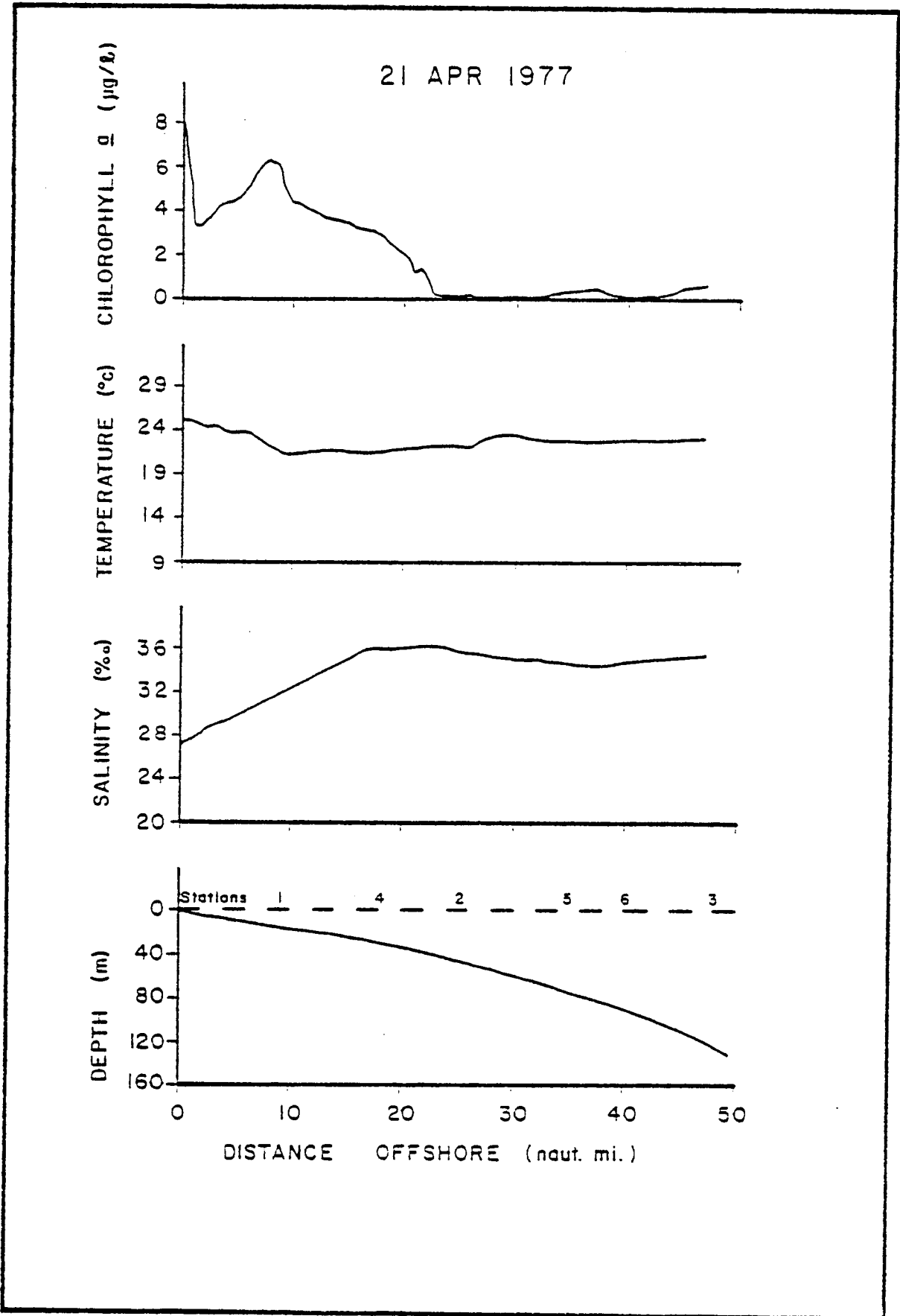
- 2.a - January 22, 1977
- 2.b - February 22, 1977
- 2.c - March 15, 1977
- 2.d - April 21, 1977
- 2.e - May 15, 1977
- 2.f - June 18, 1977
- 2.g - July 7, 1977
- 2.h - August 4, 1977
- 2.i - September 6, 1977
- 2.j - October 21, 1977
- 2.k - November 5, 1977
- 2.l - December 3, 1977

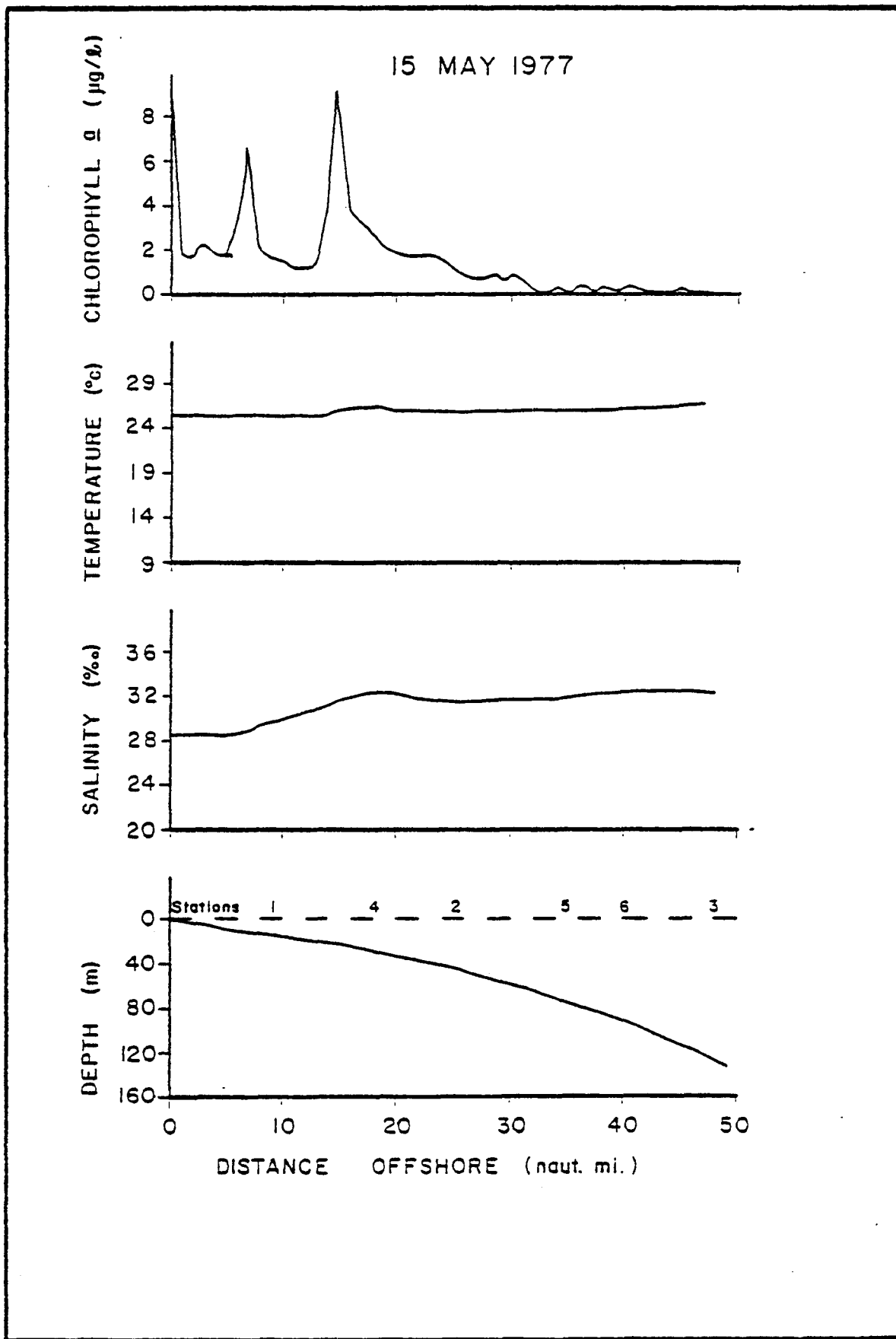


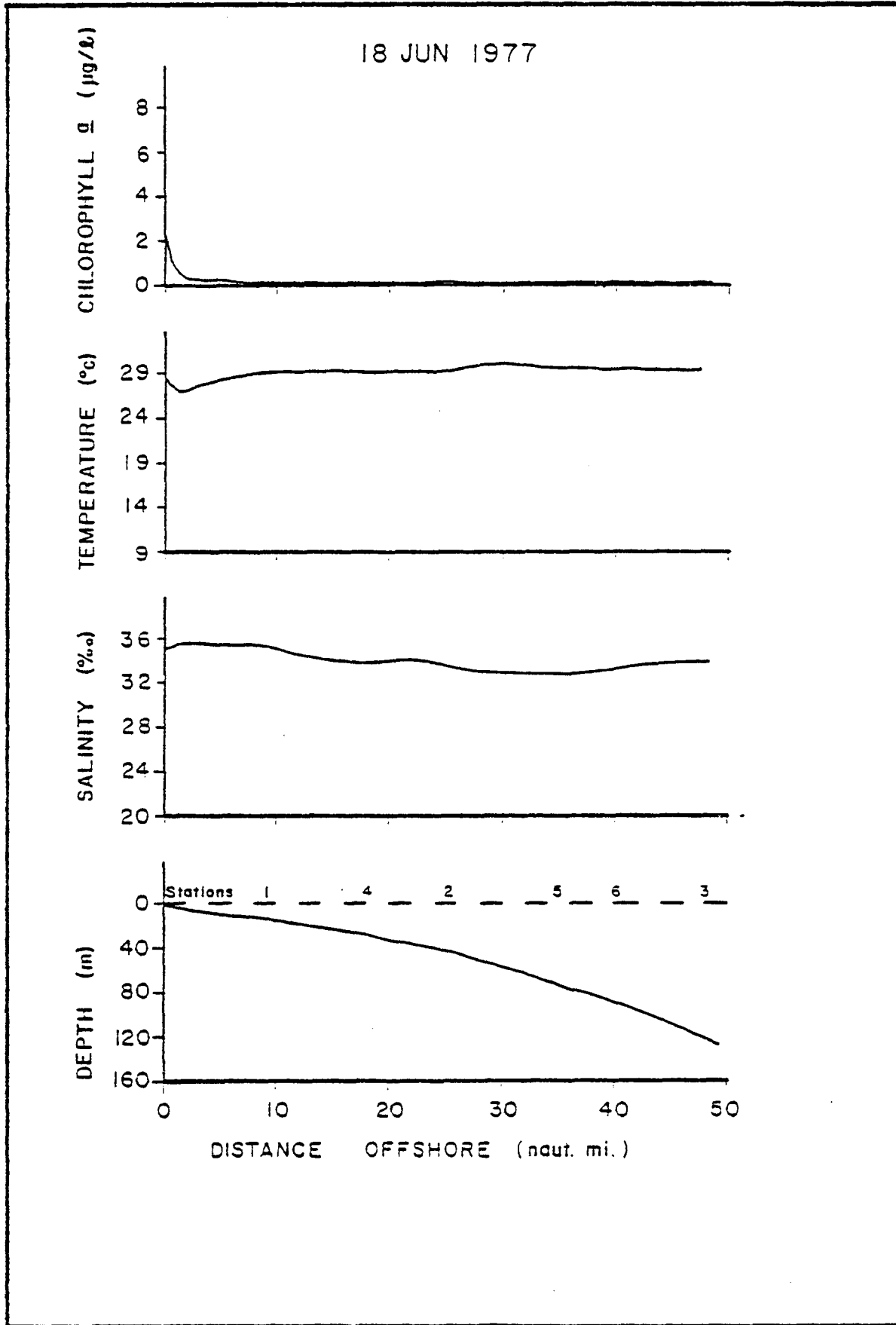


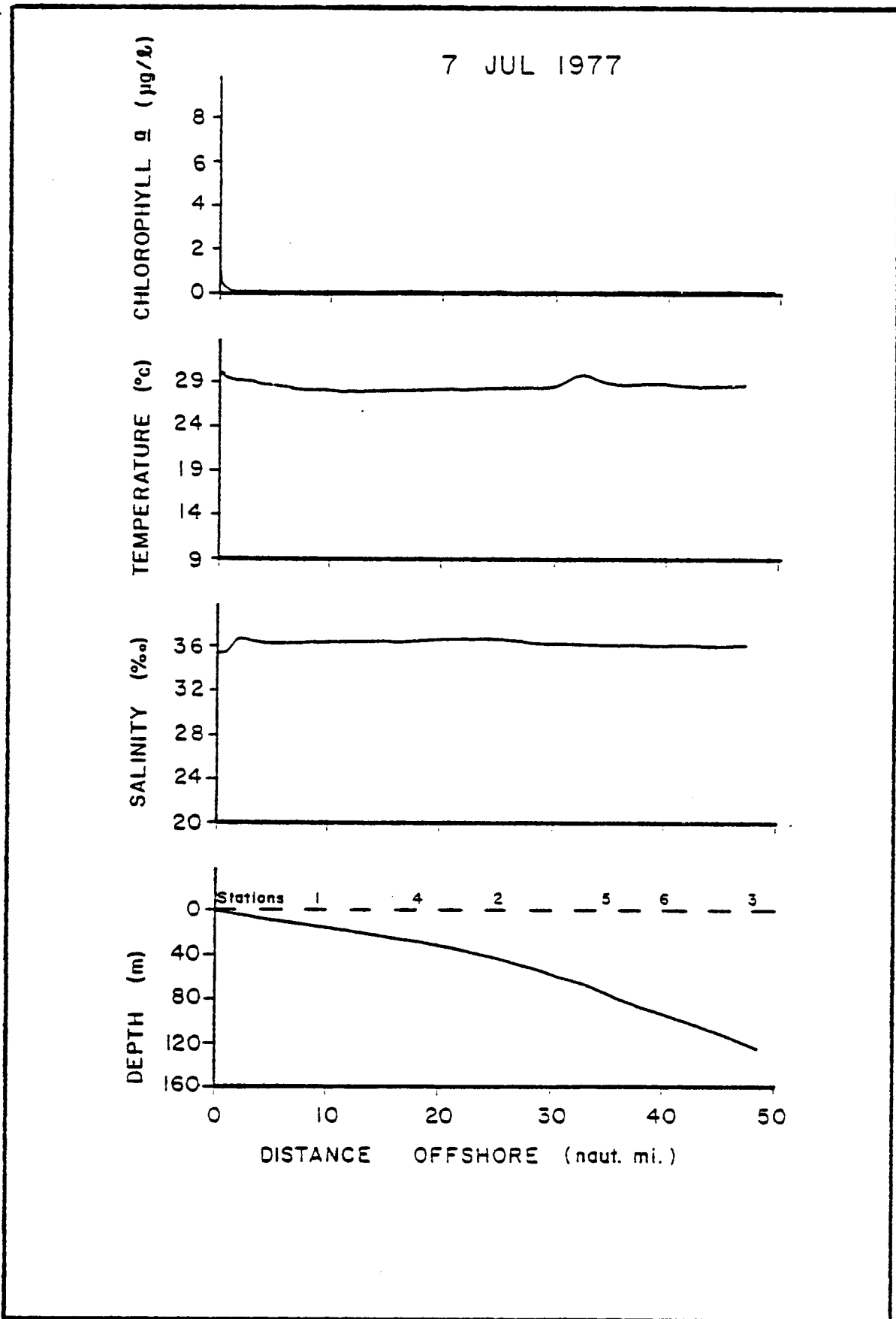


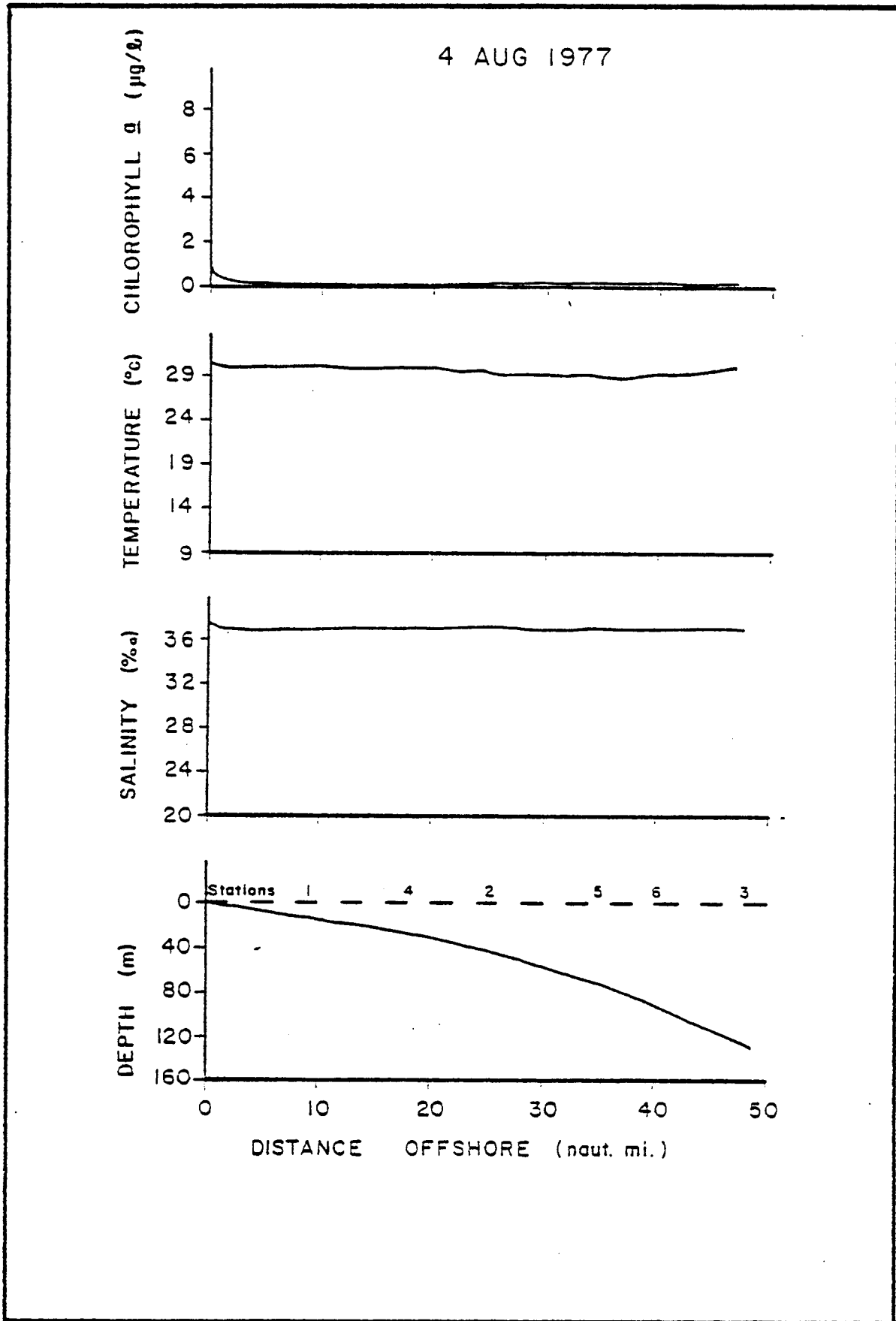


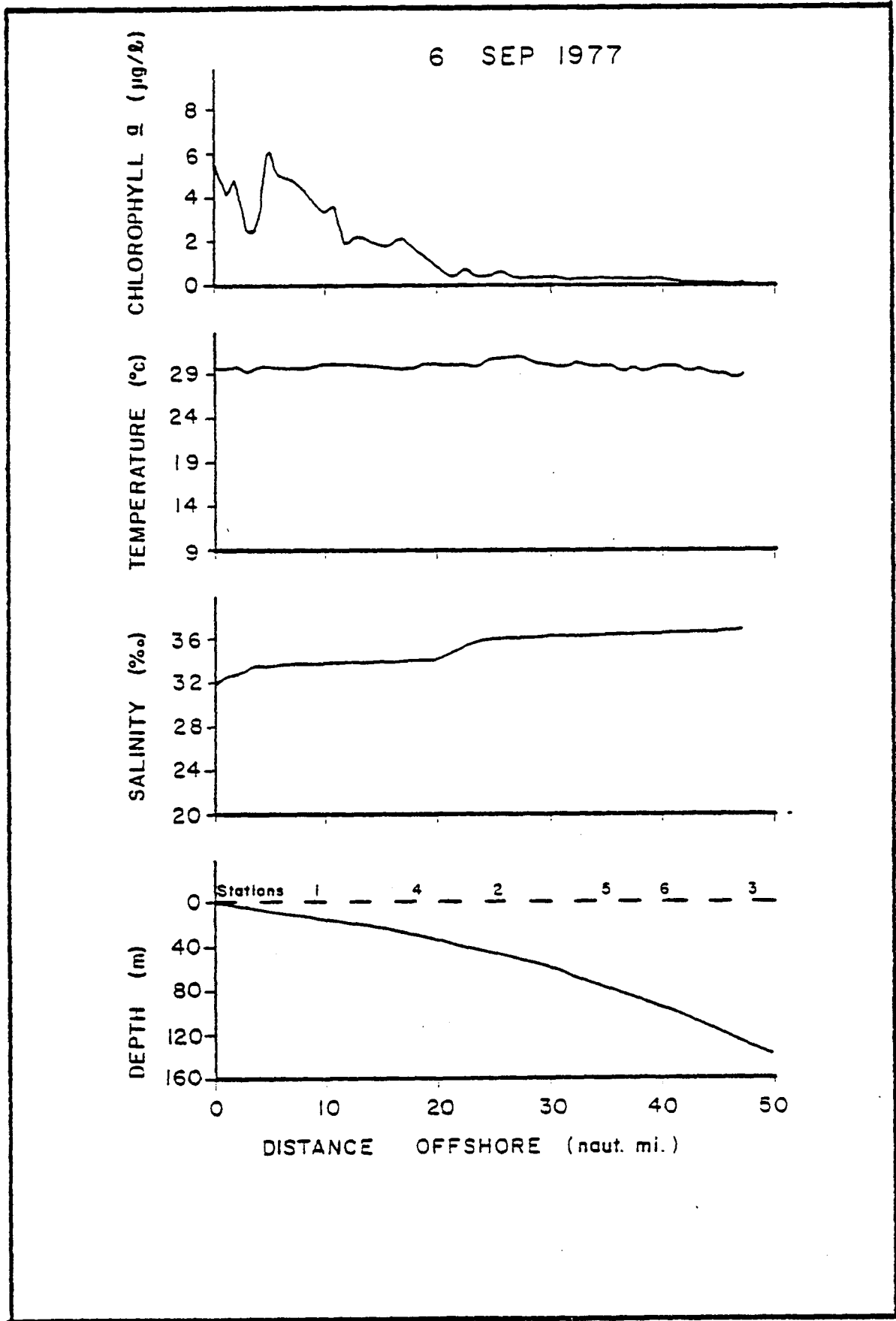






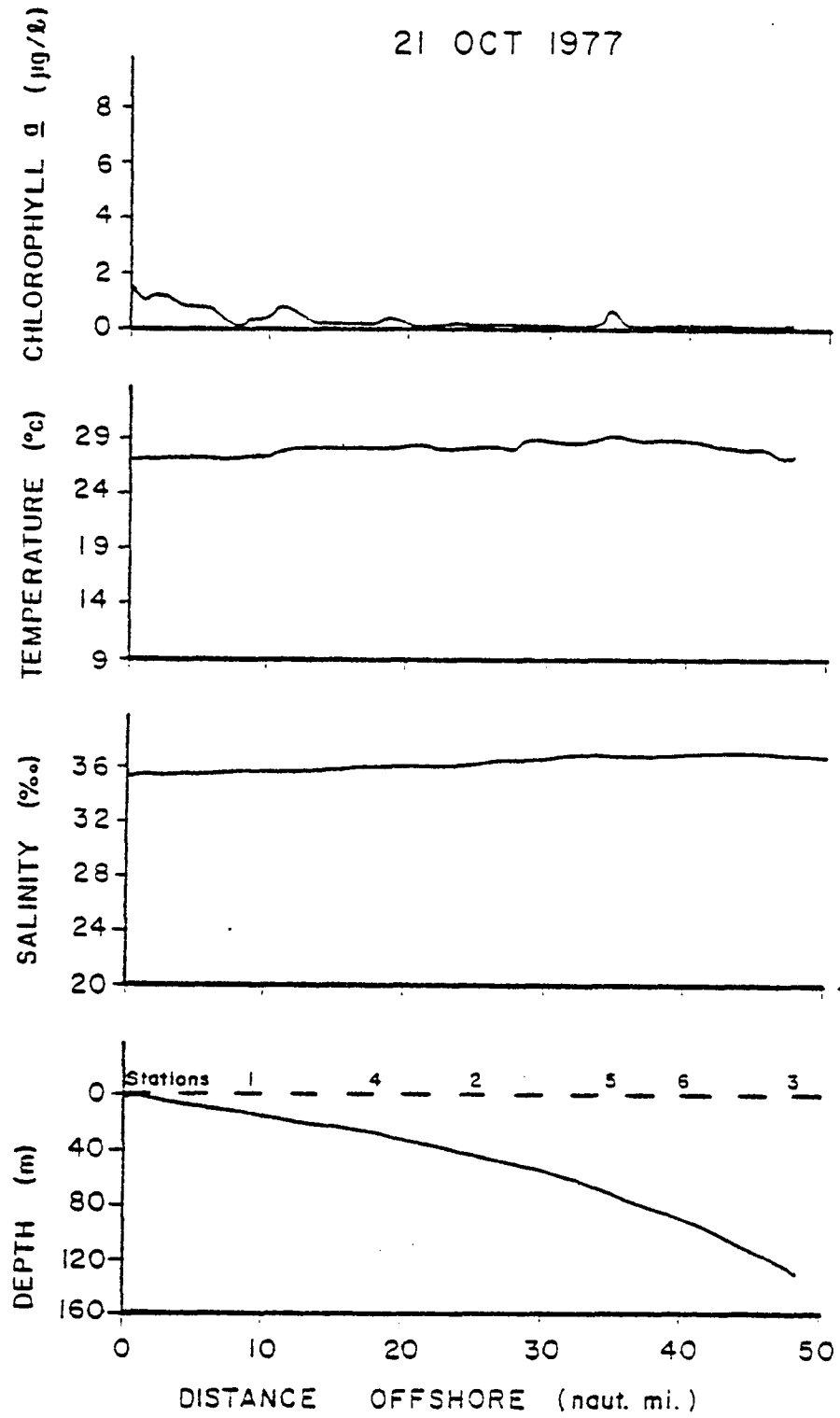


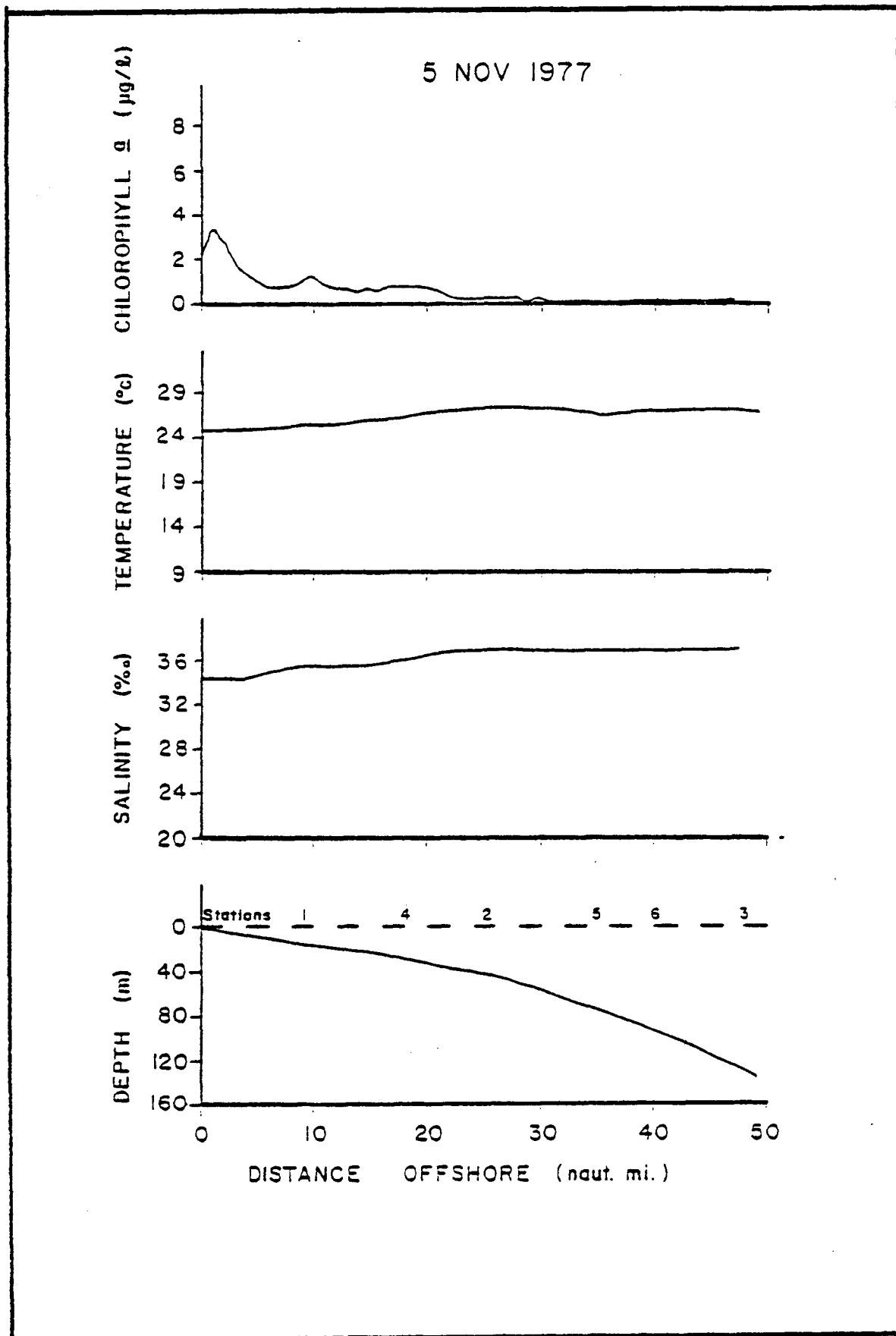


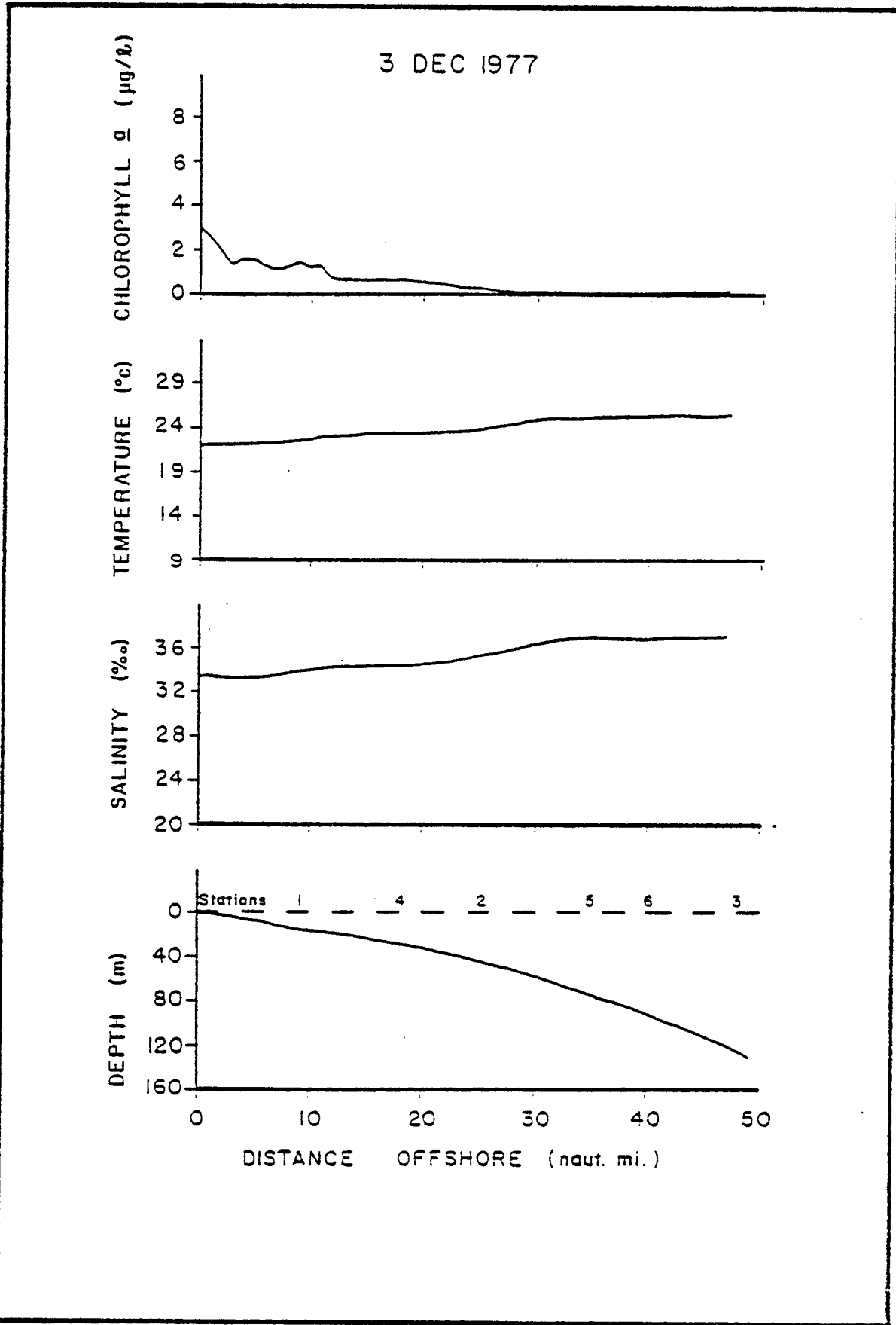




21 OCT 1977







## APPENDIX K

## SHELLED MICROZOOPLANKTON AND GENERAL MICROPLANKTON

## List of Tables

<u>Table</u>		<u>Page</u>
1	Nansen Data Sheets	K-1
2	Data from Niskin (Discrete Depth) Sampling	K-16
3	Monthly Niskin Data Sheets	K-34

TABLE 1

## NANSEN DATA SHEETS

## Explanation of Table:

Left Hand Column lists species or species groups.

The other six columns give the densities/m<sup>3</sup> for the sample listed at the top of the column.

Samples are designated by a two-digit code, the first representing the station (1, 2, or 3) and the second the depth interval from which the sample came (0 = bottom to surface; 1 = 25 m to surface, 2 = 50 m to 25 m; 3 = bottom to 50 m)

(Example: 1-0 represents a sample taken from Station 1 from the bottom to the surface and 2-1 represents a sample taken from Station 2 from 25 m to the surface.)

TABLE 1 CONT.'D

Winter, Transect I

	1-0	2-1	2-1	3-1	3-2	3-3
Ostracods	28.4	397.7	380		11.4	.7
Pteropods						
Creseis acicula			11.7	3.4	1.1	
Spiratella helicina			5.0			
Spiratella inflata	3.4	10.2	6.7	11.4	9.1	
Spiratella lesueuri	3.4	6.8	5.0	9.1	8.0	
Spiratella trochiformis				2.3		
Benthonic foraminiferan						
Bolivina lowmani	1.1					
Planktonic foraminiferans						
Globigerina bulloides	3.4	4.5	8.3		4.5	1.4
Globigerina falconensis	2.3	5.7	6.7		6.8	2.7
Globigerina quinqueloba	5.7	6.8	25.0		17.0	3.4
Globigerina rubescens			1.7			
Globigerinoides ruber		1.1	1.7		3.4	.7
Globorotalis truncantulinoides			5.0		1.1	
Orbulina universa			1.7			
other plank. foraminiferans	2.3	3.4	13.3		1.1	.3
Polycystine radiolarians						
Actinomma sp.		2.3	1.7		1.1	.3
Cenosphaera sp.		1.1				
"elliptical" spongodiscid			3.3			
Hexadoridium streptacanthum					4.5	.3
Hymeniastrum profundum		1.1				
Spongaster tetras irregularis		1.1				
Spongaster tetras tetras		1.1				
Spongotrochus glacialis	1.1	1.1				
Stylodicta sp.			1.7			
other poly. radiolarians		1.1	3.3	2.3		

Winter, Transect II	1-0	2-1	2-1	3-1	3-2	3-3
Ostracods	24.4			1.1	1.1	
Pteropods						
Atlanta sp.		1.1				(.4)
Creseis acicula		1.1		1.1		
Spiratella helicina	1.3					
Spiratella inflata		55.7	1.2	8.0		2.1
Spiratella lesueuri	10.3	5.7				.7
Spiratella trochiformis	2.6	1.1				
other pteropods		3.4				
Benthonic Foraminiferans						
Bolivina lomani	1.3	4.5				
Planktonic Foraminiferans						
Globigerina bulloides		4.5		1.4	2.3	2.4
Globigerina falconensis		15.9		13.6		1.4
Globigerina pachyderma		1.1		2.3		
Globigerina quinqueloba		9.1		23.9		.3
Globigerinoides ruber						.7
Globorotalia crassiformis		1.1		1.1		1.4
Globorotalia truncatulinoides	1.3					
other plank. foram.	3.8	14.8		21.6		1.7
Winter, Transect II-2						
Acantharian Radiolarians	1911.5	1312.5		119.3		1.4
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.	7.7	2.3				
"elliptical" spongodiscid					1.1	
Euchitonia elegans		1.1				
Heliotholus		2.3				
Hexadoridium streptacantum		2.3				
Hymeniastrum profundum		3.4		1.1		
Winter, Transect II-3						
Polycystine Rads. Cont.						
Spogaster tetras tetras		1.1				
Spongotrochus glacialis		2.3		5.7		

## Winter, Transect III

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods						
Pteropods						
Spiratella helicina	2.3					
Spiratella helicoides	8.0	5.7	4.5			
Spiratella inflata	19.3	19.3	17.0	1.1	2.3	
Spiratella lesueuri	1.1	1.1	21.6			
Spiratella trochiformis	9.1		3.4			
other pteropods			2.3			
Benthonic Foraminiferans						
Bolivina lomani	12.5					
Planktonic Foraminiferans						
Globigerina bulloides		3.4	36.4	2.3	10.2	
Globigerina falconensis	2.3	12.5	63.6	2.3	4.5	
Globigerina pachyderma		3.4	4.5	3.4	4.5	
Globigerina quinqueloba	2.3	19.3	64.8	12.5	8.0	
Globigerina tellenus			2.3			
Globigerinella aequilateralis			4.5			
Globigerinoides ruber	1.1	8.0	42.0	10.2		1.0
Globigerinoides sacculifer	1.1					
Globorotalia truncatulinoides			5.7			
other plank. foram.			135.2	3.4		

## Winter, Transect III-2

Acantharian Radiolarians	470.5	52.3	396.6	30.7	1.1	1.0
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.	1.1	1.1	6.8			
Astrosphaera hexagonis				1.1		
Cenosphaera sp.	1.1	2.3	2.3	3.4	1.1	
"circular" spongodiscid			1.1			
Gladococcus scorparius			1.1			
Collosphaera tuberosa				1.1		
Collosphaera sp.				3.4		
Drymosphaera polygonalis			2.3			
Euchitonia elegans			1.1		1.1	
Eucyrtidium accuminatum			1.1			
Heliotholus			2.3			
Hexadoridium streptacantum	2.3	6.8	3.4	8.0		
Hymeniastrum profundum			1.1			
Lamprocyclas cranoides		1.1	1.1			

## Winter, Transect III-3

Polycystine Rads. Cont.						
Lampromitra parabolica			2.3			
Ommatartus tetrathalamus			2.3	1.1		
Pterocanium praetextum praetextum				1.1		
Pterocorys zancleus			1.1			
Siphonosphaera socialis				1.1		
Spongaster crucifix			1.1			
Spongaster tetras tetras			1.1			
Spongotrochus glacialis		3.4	8.0	1.1		
Spongopyle osculosa		1.1	1.1			
Stylodieta			1.1			
Stylotrochus geddesi		1.1	1.1	1.1		
other polycys. rads..		3.4	2.3		2.3	



## Winter, Transect IV

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	454.5		252.6	3.4		1.45
Pteropods						
Spiratella helicina		4.5				
Spiratella inflata	8.0	1.1		3.4	5.7	
Spiratella lesueurii	25.0	10.2	2.6			
Benthonic Foraminiferans						
Bolivina lomani	123.9			1.1		
other benth. foram.		1.1				
Planktonic Foraminiferans						
Hastigerina palagica			1.3			
Globigerina bulloides		14.8	1.3	1.1	1.1	
Globigerina calida		1.1				
Globigerina falconensis		18.2			4.5	
Globigerina pachyderma				1.1	5.7	
Globigerina quinqueloba		11.4	1.3	4.5	2.3	
Globigerina rubescens				2.3		
Globigerinella aequilateralis				1.1	1.1	
Globigerinoides ruber		3.4	1.3			
other plank. foram.		3.4	2.6	1.1	10.2	
Globigerina humilis					1.1	
Globigerina bradyi					4.5	
Globigerina glutmata					1.1	

## Winter, Transect IV-2

Acantharian Radiolarians	1323.9	22.7	192.3	5.7		
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.		2.3	1.3		1.1	
"circular" spongodiscid	1.1	1.1				
Collosphaera sp.		1.1				
"elliptical" spongodiscid		1.1			1.1	
Heliotholus			1.3		1.1	
Hexadoridium streptacantum				1.1		
Hymeniastrum profundum					1.1	
Lamprocyclas nupitalis					1.1	

## Winter, Transect IV-3

Lithelius minor				2.3	1.1	
Pterocanium praetextum eucolpum		1.1				
Spongotrochus glacialis		1.1		5.7	8.0	
Stylodicta				1.1		
Polysolenia		1.1				
Amphispyris costata					1.1	

## Spring, Transect I

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	25.2	656.0	579.1	1.1	2.3	1.8
Pteropods						
Creseis acicula	23.5 (1.6)	119.9		5.6		
Spiratella inflata	26.7 (1.6)	36.2	53.2	17.0	1.1	4.0
Spiratella lesueuri	4.7	36.2	3.3	3.4		.7
Benthonic Foraminiferans						
Bolivina lomani	154.0	76.9	33.3	5.7		1.3
Planktonic Foraminiferans						
Globigerina calida		2.3				.7
Globigerinoides ruber		13.6	3.3	2.3		.7
Globigerinoides sacculifer		2.3				
other plank. foram.		2.3	3.3	1.1		
Spring, Transect I-2						
Acantharian Radiolarians			3.3	1.1		.3
Challengeriid Radiolarians				1.1		5.3
Polycystine Radiolarians						
Acanthodesmia viniculata						.3
Actinomma sp.					1.1	
Amphirhopalum ypsilon						.3
Cenosphaera sp.					2.3	3.7(.9)
Collosphaera tuberosa				23.8		
Collosphaera sp.					66.8	
Disolenia zaquebarica					135.8	
Eucyrtidium anomalum					1.1	
Eucyrtidium sp.						(.3)

Spring, Transect I-3	1-0	2-1	2-1	3-1	3-2
Lophophaena cylindrica					.3
Pterocanium praetextum eucolpum				1.1	
Pterocanium praetextum praetextum				1.1	(.3)
Pterocorys zancleus					.3(.3)
Spongostrochus glacialis					.3
Stylochamidium asterisus			1.1		
other polycystine rads.		6.6			
Juveniles		529.2 (6.6)			1.3
Polysolenia lappacca				66.8	
Spongaster sp.					.3

## Spring, Transect II

	1-0	2-1	2-2	3-1	3-2
Ostracods		257.4	414.9	58.8	36.2
Pteropods					
Creseis acicula	12.8	220.6		58.8	
Spiratella inflata	360.1	331.0	150.9	88.2	
Spiratella lesueuri	38.6	36.7			
Benthonic Foraminiferans					
Bolivina lowmani	250.7	220.6		29.4	
other benth. foram.	25.7				
Planktonic Foraminiferans					
Globigerinoides ruber					36.2

## Spring, Transect II-2

Acantharian Radiolarians					
Challengeriid Radiolarians					
Polycystine Radiolarians					
Actinomma sp.				117.7 (29.4)	
Hexadoridium streptacantum				29.4	

## Spring, Transect II-3

Juvenile rads.					301.8 (37.7)
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## Spring, Transect III

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods						
Pteropods						
Creseis acicula					3.4	
Spiratella helicina			1.1	1.1	1.1	
Spiratella inflata			1.1	2.3	3.4	
Spiratella lesueurii			3.4	4.5	11.4	
Spiratella trochiformis				1.1	2.3	
Benthonic Foraminiferans						
Bolivina Lowmani	454.5	385.2	13.6	294.3	6.8	
Planktonic Foraminiferans						
Globigerina bulloides				1.1	1.1	
Globigerinoides ruber			1.1			

## Spring, Transect III-2

Acantharian Radiolarians	4.5	5.7	170.5			
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.			6.8	1.1	1.1	1.0
Cenosphaera sp.			1.1	5.7		
Hexadoridium streptacantum					1.1	.5

## Spring, Transect III-3

Spongotrochus glacialis				1.1		
other polycys. rads.				1.1	1.1	4.5

## Spring, Transect IV

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	33.7	200.3	35.3	5.6	13.6	70.3
Pteropods						
Creseis acicula		33.4	35.3	13.5	1.1	4.1
Spiratella inflata	134.9		35.3	1.1 (1.1)	3.4	
Benthonic Foraminiferans						
Bolivina lowmani	134.9					.7
Spring, Transect IV-2						
Acantharian Radiolarians	404.8 (168.8)		(70.7)		1.1 (12.4)	.7
Challengeriid Radiolarians				28.3 (6.8)		1.4
Polycystine Radiolarians						
Acanthodesmia viniculata						(.7)
Hexadoridium sp.		100.1		2.3		
Hymeniasstrum profundum						(.7)
Spring, Transect IV-3						
Pterocanium praetextum praetextum				1.1		
Stylochamidium asterisus						1.7

## Summer, Transect I

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	.64		490.0	4.5	71.6	10.1
Pteropods						
<i>Creseis acicula</i>		2.3	1.7	1.1		
<i>Spiratella bulimoides</i>		10.2		1.1		
<i>Spiratella helicina</i>		11.4	3.3	1.1		.7
<i>Spiratella inflata</i>		5.7	6.7	4.5	10.2	.7
<i>Spiratella lesueuri</i>		6.8	5.0	8.0	18.2	
<i>Spiratella trochiformis</i>		3.4			1.1	
other pteropods		2.3				7.1
Benthonic Foraminiferans						
<i>Bolivina lomani</i>		1.1	15.0	2.3	8.0	1.0
other benth. foram.		2.3				
Planktonic Foraminiferans						
<i>Globigerina bulloides</i>		1.1	3.3			.7
<i>Globigerina pachyderma</i>		1.1				
<i>Globigerina quinqueloba</i>		1.1				
other plank. foram.		1.1	1.7			.7

## Summer, Transect I-2

Acantharian Radiolarians	535.2	250.0				
Challengeriid Radiolarians						1.3
Polycystine Radiolarians						
<i>Actinomma</i> sp.	1.1			2.3		1.3
<i>Euchitonia elegans</i>					2.3	.7
<i>Heliotholus</i>						.3
<i>Hexadoridium streptacantum</i>					2.3	
<i>Hymeniasstrum profundum</i>				4.5	1.1	

## Summer, Transect I-3

<i>Lophophaena cylindrica</i>					2.2	
<i>Spongotrochus glacialis</i>	1.1					
Lopho					1.1	

## Summer, Transect II-1

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods		1.1	14.1	108.6	.88	4.2
Pteropods						
Creseis acicula			2.4	2.3		
Spiratella helicina					3.4	
Spiratella inflata	15.4	13.6	117.9	25.0 (1.1)	5.7	1.7
Spiratella lesueuri					13.6	.7
Spiratella trochiformis					1.1	
other pteropods					60.2	
Benthonic Foraminiferans						
Bolivina lowmani			42.5	4.5	12.5	1.4
Planktonic Foraminiferans						
Hastigerina pelagica		(1.1)				
Globigerina bulloides					3.4	
Globigerina quinqueloba					2.3	
Globigerinoides ruber				5.7	3.4	
other plank. foram.					5.7	.3

## Summer, Transect II-2

Acantharian Radiolarians	10.3	1.1	2.4	3.4 (2.3)	227.3	29.4
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.			7.1		22.7	3.5
Anthocyrtdium cineraria						1.0
Ceratospyris sp.				2.4		.3
"circular" spongodiscid				2.2	4.5	
Disolenia zaquebarica						1.7
"elliptical" spongodiscid					1.1	
Euchitonia furcata						.3
Euchitonia elegans				1.1	2.3	
Hymeniasstrum profundum			2.4	2.2	10.2	
Lamprocyclas mupitalis						.3

## Summer, Transect II-3

Lampromitra parabolica						.3
Lophophaena cylindrica						.7
Pterocanium praetextum praetextum						.3
Pterocorys zancleus				1.1	1.1	
Spongaster tetras tetras					1.1	.3
Theoconus hertwigii				(1.1)		
other polycys. rads.						1.0

## Summer, Transect III

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods						1.98
Pteropods						
Spiratella bulimoides		9.1	3.4			
Spiratella helicina	1.1	5.7	1.1	12.5	6.8	6.1
Spiratella inflata	2.3	30.7	21.6	11.4	11.4	13.1
Spiratella lesueuri		8.0	2.3		1.1	1.5
Spiratella trochiformis		6.8	3.4	1.1		
Benthonic Foraminiferans						
Bolivina lowmani	15.9	8.0		35.2	10.2	6.1
other benth. foram.						5.1
Planktonic Foraminiferans						
Globigerina bulloides		2.3	3.4	4.5	5.7	4.0
Globigerina quinqueloba					2.3	.5
Globigerinoides ruber		10.2	2.3	27.3	1.1	1.0
other plank. foram.						.5
Summer, Transect III-2						
Acantharian Radiolarians	1273.9	151.1	214.8	1060.2	394.3	130.8
Challengeriid Radiolarians						
Polycystine Radiolarians						
Actinomma sp.		10.2	2.3	9.1	6.8	
Anthocyrtidium cineraria						.5
Cenosphaera sp.				293.2	137.5	25.8
Collosphaera sp.				1.1		
Euchitonia furcata				1.1		
Euchitonia elegans						.5
Eucyrtidium accuminatum						.5
Hexadoridium streptacantum						.5
Hexalonchi anaximandri		2.3		3.4		1.0
Hymeniastrum profundum		1.1	1.1	2.3	1.1	2.5
Lamprocyclas nupitalis				1.1		.5
Summer, Transect III-3						
Lophophaena cylindrica				1.1		
Pterocanium praetextum praetextum				2.3		.5
Spongaster tetras tetras			1.1	1.1		
Spongotrochus glacialis				1.1		
other polycys. rads.		1.1		5.7	1.1	3.0
choenicosphaera murrayima				1.1		

## Summer, Transect IV

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	4.4		.78			16.9
Pteropods						
Creseis acicula	4.4	1.1	26.1	2.3		5.2
Spiratella helicina				3.4		
Spiratella inflata	35.2	2.3	2.3	1.1		3.4 (1.3)
Spiratella lesueurii			123.9			
Spiratella trochiformis			11.4			
other pteropods		2.3			27.3	
Benthonic Foraminiferans						
Bolivina lowmani				1.1	8.0	136.5
other benth. foram.			10.2			
Planktonic Foraminiferans						
Globigerina bulloides				23.9		3.9 (1.3)
Globigerina quinqueloba				1.1		
Globigerina rubescens				17.0	1.1	
Globigerinoides ruber	4.4					19.5 (2.6)

## Summer, Transect IV-2

Acantharian Radiolarians	4.4	1162.5		2467.0	568.2	24.7
Challengeriid Radiolarians						1.3
Polycystine Radiolarians						
Actinomma sp.		1.1	2.3	8.0	3.4	6.5
Anthocyrtidium cineraria						1.3
Euchitonia elegans			9.1	1.1		
Eucyrtidium accuminatum				3.4		
Hexadoridium septacantum		1.1				
Hymeniastrum profundum		1.1	3.4	9.1	5.7	3.9
Lamprocyclas maritialis					1.1	
Lamprocyclas nupitalis				1.1	1.1	

## Summer, Transect IV-3

Lithelius minor					1.1	
Lithopera baca				1.1		
Ommatartus tetrathalamus		1.1		3.4	1.1	
Pterocorys zancleus				3.4	1.1	3.9
Spongotrochus glacialis						1.3
Stylodicta				2.3		
Spongaster pentas				1.1	2.3	
Spongaster						2.6
Spongotrochus brevispinus						1.3



TABLE - CONT'D

## July monthly, Transect II

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods			74.1		26.7	37.9
Pteropods						
<i>Creseis acicula</i>		54.4	24.7			
<i>Spiratella inflata</i>						9.5
other pteropods	30	27.2	222.4			56.8
Benthonic forams						
<i>Bolivina lowmani</i>		27.2				
Planktonic forams						
<i>Globigerina bulloides</i>				23.3		
other pl. forams		54.4	49.2			9.5
Polycystine radiolarians						
<i>Actinomma</i> sp.	60				26.7	18.9
"elliptical" spongodiscid	60					
<i>Hexadoridium streptacanthum</i>			24.7			
<i>Spongostrochus glacialis</i>						9.5
<i>Stylodicta</i> sp.						9.5
<i>Acanthodesmia viniculata</i>	120					9.5
<i>Eucryptidium accuminatum</i>				23.3		
<i>Lamprocyclas cranoides</i>					26.7	
<i>Pterocanium praetextum</i> prae.		27.2	24.7			
<i>Pterocanium trilobum</i>						9.5
other poly. rads	90					9.5
Acantharian rads.	2460	190.6	642.4	140	320	388.4
Challengeriid rads.						24.8

## August monthly, Transect II

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods		25.6			26.1	25.3
Pteropods						
<i>Creseis acicula</i>	33	25.6	27.1			
<i>Spiratella inflata</i>					26.1	6.3
<i>Spiratella lesueuri</i>	33					
other pteropods	89.4		135.3		52.2	6.3
Planktonic forams						
<i>Globigerina bulloides</i>		51.1				12.6
<i>Globigerina quinqueloba</i>			22.1			
<i>Globigerinoides ruber</i>		102.2				
other planktonic forams		102.2	27.1		26.1	12.6
Polycystine radiolarians						
<i>Actinomma</i> sp.	99.4	51.1	27.1	51.1		18.9
<i>Acanthodesmia viniculata</i>						11.4
<i>Hexadoridium streptacanthum</i>	99.4					
<i>Spongocore puella</i>						12.6
<i>Spongostrochus glacialis</i>						12.6
<i>Stylodicta</i>						6.3
<i>Anthocyrtidium cineraria</i>						6.3

TABLE 1 CONT.'D

## August monthly cont.

	1-0	2-1	2-2	3-1	3-2	3-3
<i>Lamprocyclus cranooides</i>	33.1	25.6				
<i>Lamprocyclus nupitalis</i>						6.3
<i>Pterocanium spinipes</i>	33.1				26.1	
<i>Pterocorys zancleus</i>				25.6		
<i>Theopilium tricostatum</i>						6.3
other poly. rads	33.1	25.6			26.1	12.6
Acantharian radiolarians	1490.6	792.2	270.6	102.2	156.7	202.1
Challengeriid rads						44.1

## November monthly, Transect II

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods		75.5		47.8	42.2	6.7
Pteropods						
<i>Creseis acicula</i>			27.1			6.3
other pteropods			27.1			13.3
Planktonic foraminiferans						
<i>Globigerina falconensis</i>		18.9		95.6		
<i>Globigerina quinqueloba</i>		37.8		47.8		6.7
other planktonic forams		18.9		147.3		20
Polycystine radiolarians						
<i>Actinomma</i> sp.		18.9		23.9		
<i>Acanthodesmia viniculata</i>			27.1			6.7
<i>Euchitonia furcata</i>		18.9				
<i>Hexadoridium streptacanthum</i>		37.8		23.9		
<i>Heliotholus</i> sp.		18.9				
<i>Ommatartus tetrathalamus</i>						6.7
other polycystine rads		18.9				
Acantharian radiolarians	573.8	245.6	54.1	1170.6	42.2	213.3
Challengeriid rads						6.7

## December monthly, Transect II

	1-0	2-1	2-2	3-1	3-2	3-3
Ostracods	28.6		108.2	57.8	274.4	37.7
Pteropods						
<i>Creseis acicula</i>				28.9	63.3	22.6
other pteropods	28.6	160		28.9	21.1	30.2
Planktonic foraminiferans						
<i>Globigerina bulloides</i>				28.9	21.1	
<i>Globigerina falconensis</i>		26.7		28.9	21.1	
other planktonic forams				28.9	21.1	7.5
Polycystine radiolarians						
<i>Actinomma</i> sp.				57.8		
<i>Acanthodesmia viniculata</i>				28.9		
<i>Spongaster pentas</i>				28.9		
<i>Pterocanium praetextum eucolpium</i>				28.9		
<i>Pterocanium trilobum</i>						7.5
Acantharian radiolarians	82.3	240	162.4	404.4	168.9	135.9
Challengeriid rads			27.1			7.5

TABLE 2

## DATA FROM NISKIN (DISCRETE DEPTH) SAMPLING

## Explanation of Table:

The Niskin samples are listed serially (1-95) down the left-hand side of each page.

Numbers corresponding to the microplankton groups counted are listed serially, left to right, above each column of data entries for sample 1. (Thus column 1 for samples 1-95 represents the counts of centric solitary diatoms present in each sample.)

The data entries represent the densities  $\times 10^3$  of a given group for a given sample ( $7258.92 = 7,258,920/m^3$ ).

Next to each sample number a sample label code is provided. Interpretation of the label code is as follows:

For sample label codes atarting with a number:

Column 1 - Station number  
 Column 2 - Transect number  
 Column 3 - Season (W=winter; S=spring)  
 Column 4 - Year 7 = 1977  
 Column 6 - Relative Depth (T = 10 m; H= half the depth of the photic zone; P= Photic zone; Z = Bottom).  
 Columns 7 through 10 - code number of the station

For sample label codes starting with a letter:

Columns 2 and 3 (SS) give the season (Fall)  
 Column 4 - Station number  
 Column 5 - Transect number  
 Columns 6 through 9 - Code number of the station [these are are so arranged that the first of each having the same station and transect number is the half-photic zone sample, the second is the photic zone sample and the third is the bottom sample (If taken from station 2 or 3)]

# TABLE 2 CONT.'D

```

*****
*****                               TITLEX *** NISK77 DATA ***
*****
NUMBER OF GROUPS 35
NUMBER OF CHARACTERS 35
NUMBER OF SAMPLES 95
*****
VARIABLE FORMAT (I2,4A4,2X,5F10.4,7S(20X),5F10.4,7(20X),5F10.4)
*****
OUTPUT FORMAT (I2,4A4,2X,5F10.4,7S(20X),5F10.4,7(20X),5F10.4)
*****
VARIABLES IN GROUPS
1 CEN. SOL. DIATOMS
2 CEN. CUL. DIATOMS
3 PEN. SOL. DIATOMS
4 PEN. CUL. DIATOMS
5 PERIDINIUM
6 GONYAULAX
7 DINOPHYSIS
8 CERATIUM
9 NOCTILUCA
10 DINOFLAGELLATES
11 SILICOF. LAGELLATE
12 TRICHODESMIUM
13 COCCOLITHOPHORES
14 OTH. FLAGELLATES
15 SPUMELLARIANS
16 ACANTHARIANS
17 NASSELLARIANS
18 BENTHONIC FORAMS
19 PLANKT. FORAMS
20 TINTINNIDS
21 OTHER CILIATES
22 EGGS
23 COELENTERATES
24 DOLIOLUM
25 DIKOPLEURA
26 SHELL. PTEROPOD
27 CHAETOGNATHS
28 MEROPL. POLYCH.
29 CALANOIDS
30 HARPACTICOIDS
31 CYCLOPOIDS
32 NAUPLIAR LARVAE
33 OSTRACODS
34 ECHINODERMS
35 CLAMS
*****

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TABLE 2 CONT.'D

NUMBER	SAMPLE NAME	1	2	3	4	5	6	7	8	9	10
1	11W70HBAAY	7258.94	3516.05	113.42	340.26	0.0	0.0	0.0	113.42	0.0	0.0
2	11W71TBAAW	8610.82	5184.96	129.62	1036.99	0.0	0.0	0.0	0.0	0.0	0.0
3	21W70HBACR	252.85	771.20	50.57	50.57	0.0	0.0	0.0	0.0	0.0	0.0
4	21W71TBACP	118.90	332.91	0.0	71.34	0.0	0.0	0.0	5.94	0.0	0.0
5	31W73PBAEP	4.16	566.83	0.0	10.11	0.0	0.0	0.0	0.0	0.0	0.0
6	31W71TBAEK	167.02	2906.16	133.62	133.62	0.0	0.0	0.0	0.0	0.0	0.0
7	12W70HBAGY	2584.97	2642.41	287.22	114.89	0.0	0.0	0.0	0.0	0.0	0.0
8	12W71TBAGW	224.95	2781.10	18.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	22W71HBAJI	167.77	48.64	302.75	15.85	0.0	0.0	0.0	0.0	0.0	0.0
10	22W71TUAJG	11.63	35.88	231.23	19.03	0.0	0.0	0.0	0.0	0.0	0.0
11	32W7E ZBALO	36.68	601.50	14.67	66.02	0.0	0.0	0.0	0.0	0.0	0.0
12	32W73PBALM	0.0	827.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	32W71HBALJ	37.56	1492.72	0.0	150.22	0.0	0.0	0.0	37.56	0.0	0.0
14	32W71TBALH	221.00	4219.26	60.74	90.74	0.0	0.0	0.0	0.0	0.0	0.0
15	13W71TBAQW	227.49	235.27	29.93	40.11	1.80	5.99	0.0	1.80	0.0	0.0
16	13W70HBAQY	821.21	5267.48	44.30	511.11	39.19	39.19	0.0	11.93	511.11	11.93
17	23W72HBA SR	96.93	75.86	122.21	42.14	0.0	0.0	0.0	8.43	0.0	0.0
18	23W71TBA SP	88.74	78.09	221.30	0.0	7.10	0.0	0.0	7.10	3.55	0.0
19	33W7E ZBAUO	135.35	30.76	436.82	12.30	0.0	0.0	0.0	0.0	0.0	0.0
20	33W79PBAUD	75.42	177.79	237.05	21.56	0.0	0.0	0.0	3.10	0.0	0.0
21	33W74HBAUL	9.31	16.93	1.40	0.74	0.22	0.22	0.0	2.44	0.52	0.0
22	33W71TBAUJ	11.57	9.36	2.71	1.50	0.21	0.0	0.16	5.00	0.0	0.0
23	14W70HBAWR	747.35	901.22	351.70	131.89	0.0	0.0	0.0	0.0	0.0	0.0
24	14W71TBAWP	966.20	3691.07	193.24	123.60	87.04	0.0	0.0	0.0	0.0	0.0
25	24W72HBA YU	317.80	696.23	696.23	146.35	41.82	0.0	0.0	0.0	0.0	0.0
26	24W71TBA YM	577.73	637.50	478.12	179.30	0.0	0.0	0.0	0.0	0.0	0.0
27	34W7E ZBBAN	162.92	2048.11	0.0	46.55	0.0	0.0	0.0	0.0	0.0	0.0
28	34W77PBBALU	76.62	15.32	199.22	42.14	0.0	0.0	0.0	0.0	0.0	0.0
29	34W73HBBAI	56.01	7.83	303.54	7.83	0.0	0.0	0.0	3.92	0.0	0.0
30	34W71fBBAG	3.44	5.18	1.07	0.0	0.0	0.0	0.0	1.28	0.0	0.0

TABLE 2 C 'D

31	11S70PBIYA	1130.88	*****	0.0	848.16	0.0	0.0	0.0	0.0	0.0	0.0
32	11S70HBI XY	810.28	*****	486.17	2430.84	0.0	0.0	0.0	0.0	0.0	0.0
33	21S78ZBJAA	717.18	2813.56	380.17	1268.86	0.0	0.0	0.0	0.0	0.0	0.0
34	21S72PBIZY	35.15	18.50	68.45	38.85	0.0	0.0	0.0	11.10	0.0	0.0
35	21S71HBI ZW	741.32	6968.41	0.0	7116.67	0.0	0.0	0.0	0.0	0.0	0.0
36	31S7FZBKCB	0.0	2.97	28.17	16.31	0.0	0.0	0.0	1.48	0.0	0.0
37	31S78PBJBZ	10.28	0.0	56.88	36.18	0.0	0.0	0.0	2.60	0.0	0.0
38	31S74HBJBX	49.00	0.0	255.88	174.21	0.0	0.0	0.0	0.0	0.0	0.0
39	12S71PBJET	316.92	1109.23	193.67	0.0	0.0	0.0	0.0	35.21	0.0	0.0
40	12S70HBJEI	578.30	638.50	280.94	94.86	18.24	0.0	0.0	94.86	0.0	0.0
41	22S79ZBJGK	241.36	1870.54	211.19	663.74	0.0	0.0	0.0	30.17	0.0	0.0
42	22S74PBJGI	51.72	294.80	113.78	25.86	0.0	0.0	0.0	0.0	0.0	0.0
43	22S72HBJGG	724.80	6196.68	318.59	565.51	0.0	0.0	0.0	0.0	0.0	0.0
44	32S7FZBJIN	2.96	4.43	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	32S75PBJIL	3.58	0.0	25.32	36.24	0.0	0.0	0.0	0.0	0.0	0.0
46	32S72HBJIJ	20.69	55.17	13.79	20.69	0.0	0.0	0.0	0.0	0.0	0.0
47	13S73PBJLQ	612.98	1746.99	275.84	306.49	0.0	30.65	0.0	61.30	0.0	0.0
48	13S71HBJLO	70.53	352.64	70.53	70.53	0.0	0.0	0.0	0.0	0.0	0.0
49	23S78ZBJNP	44.73	71.03	20.68	0.0	1.76	0.0	0.0	5.13	0.0	0.0
50	23S73PBJNN	133.95	133.95	108.44	184.99	6.38	0.0	0.0	6.38	0.0	0.0
51	23S71HBJNL	137.92	551.68	331.01	744.77	0.0	0.0	55.17	27.58	0.0	0.0
52	33S7FZBJPP	0.93	0.0	1.86	1.86	0.0	0.0	0.0	0.0	0.0	0.0
53	33S74PBJPN	38.22	12.68	63.76	38.22	0.0	0.0	0.0	0.0	0.0	0.0
54	33S72HBJPL	459.69	527.96	345.90	207.09	0.0	0.0	0.0	45.51	0.0	0.0
55	14S74PBJRV	81.89	176.71	34.48	38.79	0.0	0.0	0.0	12.93	0.0	0.0
56	14S71HBJRT	603.40	810.29	68.96	68.96	0.0	0.0	0.0	17.24	0.0	0.0
57	24S79ZBJTT	1.73	0.0	1.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	24S7PBJTR	188.07	319.72	75.23	1222.47	0.0	0.0	0.0	0.0	0.0	0.0
59	24S75HBJTP	123.14	812.79	123.14	1329.94	0.0	0.0	0.0	0.0	0.0	0.0
60	34S7EZBJVT	151.04	21.89	172.93	672.02	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 2 CONT.'D

61	34S78PBJVR	20.16	90.71	211.65	684.98	0.0	0.0	0.0	0.0	20.16	0.0	0.0
62	34S74HBJP	134.47	168.09	235.33	2790.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	SS11BQBH	8.00	41.00	2.00	0.0	0.0	0.0	0.0	0.0	2.00	0.0	2.00
64	SS11BOBJ	6.40	10.60	0.0	0.0	0.0	0.0	0.0	0.0	10.60	0.0	0.0
65	SS21BODD	0.0	18.20	16.80	16.80	0.0	0.0	0.0	0.0	3.90	0.0	0.0
66	SS21BODF	5.00	17.00	29.00	0.0	1.00	0.0	0.0	0.0	1.00	0.0	0.0
67	SS21BODH	6.00	14.00	47.00	18.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0
68	SS31BODJ	0.0	9.00	24.00	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0
69	SS31BOFF	0.0	0.0	33.30	0.0	0.0	0.0	0.0	0.0	22.20	0.0	0.0
70	SS31BDFH	13.90	3.40	16.30	1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	SS11BOHX	10.30	1.90	21.30	3.40	4.60	0.40	0.0	0.0	0.0	0.0	0.0
72	SS11BOHZ	6.00	7.00	1.00	10.00	2.00	0.0	2.00	0.0	0.0	0.0	0.0
73	SS21BOJW	5.00	10.00	35.50	16.00	1.00	0.0	2.00	1.50	0.0	0.0	0.0
74	SS21BOJY	1.00	15.00	68.00	3.00	0.0	0.0	0.0	1.00	1.00	0.0	0.0
75	SS21BOKA	6.00	40.00	27.00	11.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0
76	SS31BOLY	1.00	35.30	29.00	17.60	0.30	0.0	0.0	2.60	0.30	0.30	0.30
77	SS31BOMA	4.60	26.50	35.50	20.00	0.0	0.0	1.00	1.50	0.0	0.50	0.50
78	SS31BOMC	21.40	25.00	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	SS11BOPA	3.70	17.00	0.0	0.0	0.0	0.0	0.0	2.00	0.0	2.00	0.0
80	SS11BOPC	19.00	38.00	2.30	6.70	2.00	0.30	0.70	1.00	1.00	0.70	0.70
81	SS211BQW	1.00	47.00	16.00	17.00	0.0	0.0	0.0	4.00	0.0	6.0	6.0
82	SS211BQY	1.00	53.00	10.00	6.00	0.0	0.0	0.0	1.00	0.0	2.00	2.00
83	SS211BORA	17.00	23.00	20.00	13.00	1.00	0.0	0.0	1.00	0.0	0.0	0.0
84	SS311BOSW	4.00	27.00	14.00	3.00	0.0	0.0	0.0	1.00	2.00	0.0	0.0
85	SS311BOSY	6.00	36.40	6.00	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	SS311BOTA	14.30	28.60	14.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	SS11VBOUZ	0.30	9.70	0.70	0.30	1.00	0.0	0.70	0.30	0.0	5.70	5.70
88	SS11VBOVB	8.00	13.60	2.30	1.00	1.00	2.30	2.00	2.30	0.0	0.70	0.70
89	SS21VBOVW	2.00	84.00	2.00	8.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0
90	SS21VBOVX	7.30	57.00	10.00	14.00	1.70	0.0	0.70	1.30	0.0	1.30	1.30
91	SS21VBOVZ	6.40	21.10	14.30	2.80	0.0	0.0	0.0	0.70	0.0	0.40	0.40

TABLE 2 CONT.'D

92	SS31VBOYV	0.0	6.70	0.0	0.0	0.0	0.0	0.0	0.0	6.70	0.0	6.70
93	SS31VBOYX	1.00	15.00	3.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0
94	SS31VBOYZ	12.30	16.40	8.20	8.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TABLE CONT.'D

JMDEB	SAMPLE NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	11W70HBAAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	11W71TBAAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	21W70HBA CR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	21W71TBA CP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	31W73PBAEP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	31W71TBA EK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	12W70HBA GY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.44	
8	12W71TBA GW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	22W71HBA JI	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	22W71TBA JO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	32W7FZBALD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	32W73PBA LM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	32W71HBA LJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	32W71TBA LH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	13W71TBA OW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	13W70HBA OY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	23W72HBA SR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	23W71TBA SP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	33W7E ZBAUO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	33W79PBA UD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	33W74HBA UL	0.0	0.0	0.22	0.0	0.0	0.82	0.74	0.52	0.0	0.52	0.0	0.52	0.52	0.0	0.52	0.52	0.0	0.52	0.52	0.52	
22	33W71TBA UJ	0.50	0.0	0.0	0.0	0.0	0.21	0.71	0.0	0.71	0.0	0.71	0.71	0.0	0.71	0.71	0.0	0.71	0.71	0.71	0.71	
23	14W70HBA WR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	14W71TBA WP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	24W72HBA YO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	24W71TBA YN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	34W7E ZBBAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	34W77PBB AL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	34W73HBA AI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	34W71TBA AG	0.22	0.0	0.0	0.0	0.0	0.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22





TABLE 2 CONT.'D

92	SS31 VUOYV	0.0	0.0	0.0	0.0	0.0	20.00	0.0	0.0	0.0	0.0
93	SS31 VBOYX	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.0
94	SS31 VBOYZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 2 CONT.'D

*NUMBER*	SAMPLE NAME	21	22	23	24	25	26	27	28	29	30
1	11W70HBAAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11W71TBAAW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	21W70HBACR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.64	0.0
4	21W71TBACR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.94	0.0
5	31W73PBAEP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0
6	31W71TBAEK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	12W70HBAGY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	12W71TBAGW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	22W71HBAJI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	22W71TBAJG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	32W7FZBALD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	32W73PBALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	32W71HBALJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.56	0.0
14	32W71TBALH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	13W71TBAOW	0.0	0.0	1.80	0.0	0.0	0.0	0.0	0.0	5.99	1.80
16	13W70HBAQY	0.0	5.11	0.0	0.0	0.0	0.0	0.0	0.0	5.11	0.0
17	23W72HBASR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.21	0.0
18	23W71TBASP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.58	16.65
19	33W7FZBAUQ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	33W79PBAUD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	33W74HBAUL	0.0	1.48	0.0	0.0	1.48	0.22	0.22	0.22	0.22	0.0
22	33W71TBAUJ	0.0	0.0	0.0	0.0	0.17	0.21	0.15	0.0	1.71	0.0
23	14W70HBAWR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	14W71TBAWR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	24W72HBAYO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	24W71TBAYM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.92	0.0
27	34W7EZBBAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.27	0.0	0.0
28	34W77PBBAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.83	0.0
29	34W73HBAAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.92	0.0	0.0
30	34W71TBBAG	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.22	0.0

# TABLE CONT.'D

31	11S70PBIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	11S70HBIXY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	21S78ZBJAA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.17	0.0	0.0
34	21S72PBIZY	0.0	1.85	0.0	0.0	0.0	0.0	1.85	0.0	1.85	0.0	0.0
35	21S71HBIZW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	31S7FZBKCB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	31S78PBIBZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.60	0.0	0.0
38	31S74HBIBX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.44	0.0	0.0
39	12S71PBIEI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	12S70HBJEI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.24	0.0	0.0
41	22S79ZBJGK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	22S74PBJGI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	22S72HBJGG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	32S7FZBJIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	32S75PBJIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	32S72HBJIJ	0.0	0.0	0.0	0.0	0.0	2.76	6.90	0.0	0.0	0.0	0.0
47	13S73PBJLQ	0.0	0.0	0.0	0.0	0.0	30.65	0.0	0.0	0.0	0.0	0.0
48	13S71HBJLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	23S70ZBJNP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.53	0.0	0.0
50	23S73PBJNN	0.0	0.0	0.0	0.0	0.0	6.38	0.0	0.0	0.0	0.0	0.0
51	23S71HBJNL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	33S7FZBJPP	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0
53	33S74PBJPN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.43	0.0	0.0
54	33S72HBJPL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	14S74PBJRV	0.0	0.0	0.0	0.0	0.0	0.0	4.31	8.62	12.93	0.0	0.0
56	14S71HBJRT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	24S79ZBJIT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	24S7 PBJTR	0.0	0.0	0.0	0.0	0.0	0.0	18.81	0.0	0.0	0.0	0.0
59	24S75HBJTP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.63	0.0	0.0
60	34S7E ZBJVI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 2 CONT.'D

61	34S78PBJV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	34S74HBJVP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.62	0.0	0.0	0.0	0.0
63	SS11B0BH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.00	0.0	0.0	0.0
64	SS11B0BJ	0.0	0.0	0.0	0.0	0.0	2.10	0.0	0.0	0.0	0.0	27.60	0.0	0.0	0.0
65	SS21B0DD	0.0	0.0	0.0	0.0	0.0	0.0	2.60	0.0	0.0	0.0	9.10	0.0	0.0	0.0
66	SS21B0DF	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0
67	SS21B0DH	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	4.00	0.0	0.0	0.0
68	SS31B0FD	0.0	0.0	0.0	0.0	0.0	1.80	1.80	0.0	0.0	1.80	5.40	0.0	0.0	0.0
69	SS31B0FF	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0	11.10	0.0	0.0	0.0
70	SS31B0FH	0.0	0.0	0.0	0.0	0.0	0.0	4.60	0.0	0.0	0.0	1.10	0.0	0.0	0.0
71	SS11B0HX	0.0	0.40	0.0	0.0	0.0	2.30	1.50	0.0	0.0	1.50	14.90	0.0	0.0	0.0
72	SS11B0HZ	0.0	0.0	0.0	0.0	0.0	1.00	5.00	0.0	0.0	0.0	2.00	0.0	0.0	0.0
73	SS21B0JW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	5.00	0.0	0.0	0.0
74	SS21B0JY	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0
75	SS21B0KA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0
76	SS31B0LY	0.0	0.0	0.0	0.0	0.0	0.30	0.30	0.0	0.0	0.70	0.0	0.0	0.0	0.0
77	SS31B0MA	0.50	0.0	0.0	0.0	0.0	0.150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	SS31B0MC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.10	0.0	0.0	0.0
79	SS11B0PA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	SS11B0PC	0.0	0.0	0.0	0.0	0.0	0.0	2.70	0.30	0.30	0.30	0.30	0.0	0.0	0.0
81	SS21B0QW	0.0	0.0	0.0	0.0	0.0	0.0	6.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	SS21B0QY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.0
83	SS21B0RA	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	4.00	0.0	0.0	0.0
84	SS31B0SW	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.0
85	SS31B0SY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.00	5.00	0.0	0.0	0.0
86	SS31B0TA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	SS11B0UZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.30	0.0	0.0	0.0
88	SS11B0VB	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.70	0.0	0.0	0.0
89	SS21B0VW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	SS21B0WX	0.0	0.30	0.0	0.0	0.0	0.0	1.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0
91	SS21B0WZ	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0

# TABLE PART 'D

92	SS31V80YV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.70	0.0
93	SS31V80YX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.0
94	SS31V80YZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TABLE 5 (CONT'D)

NUMBER	SAMPLE NAME	31	32	33	34	35
1	11W70HBAAY	0.0	0.0	0.0	0.0	0.0
2	11W71TBAAN	0.0	0.0	0.0	0.0	0.0
3	21W70HBACR	0.0	50.57	0.0	0.0	0.0
4	21W71TBACP	0.0	23.78	0.0	0.0	0.0
5	31W73PBAER	0.0	7.73	0.0	0.0	0.0
6	31W71TBAEK	0.0	0.0	0.0	0.0	0.0
7	12W70HBAGY	0.0	0.0	0.0	0.0	57.44
8	12W71TBAGW	0.0	0.0	0.0	0.0	0.0
9	22W71HBAJI	0.0	0.0	0.0	0.0	4.92
10	22W71TBAJG	0.0	0.0	0.0	0.0	0.0
11	32W7FZBALD	0.0	14.67	0.0	0.0	0.0
12	32W73PBALM	0.0	0.0	0.0	0.0	0.0
13	32W71HBA LJ	0.0	0.0	0.0	0.0	0.0
14	32W71TBA LH	0.0	45.37	0.0	0.0	0.0
15	13W71TBAQM	0.0	19.76	0.0	0.0	0.0
16	13W70HBAOY	0.0	34.07	0.0	0.0	0.0
17	23W72HBASR	0.0	25.29	0.0	0.0	0.0
18	23W71TBA SP	0.0	24.30	0.0	0.0	0.0
19	33W7E ZBAUO	0.0	0.0	0.0	0.0	0.0
20	33W79PBAUO	0.0	15.16	0.0	0.0	0.0
21	33W74HBAUL	0.0	8.87	0.0	0.0	0.0
22	33W71TBAUJ	0.0	9.14	0.0	0.0	0.0
23	14W70HBANR	0.0	43.06	0.0	0.0	0.0
24	14W71TBA NR	0.0	0.0	0.0	0.0	0.0
25	24W72HBAYO	0.0	11.82	0.0	0.0	0.0
26	24W71TBA YM	0.0	70.69	0.0	0.0	0.0
27	34W7E ZBBAN	0.0	0.0	0.0	0.0	0.0
28	34W77PBBAL	0.0	7.66	0.0	0.0	0.0
29	34W73HBBAI	0.0	7.83	0.0	0.0	0.0
30	34W71TBBAG	0.0	5.59	0.0	0.0	0.22

CONT.'D

31	11S70PBIYA	0.0	0.0	0.0	0.0	0.0
32	11S70HBI XY	0.0	0.0	0.0	0.0	0.0
33	21S78ZUJAA	0.0	165.50	0.0	0.0	55.17
34	21S72PBI ZY	0.0	1.85	0.0	0.0	0.0
35	21S71HBI ZW	0.0	0.0	0.0	0.0	0.0
36	31S7F ZBKCB	0.0	1.48	0.0	0.0	0.0
37	31S70PBJBZ	0.0	7.81	0.0	0.0	0.0
38	31S74HBJBX	0.0	5.44	0.0	0.0	0.0
39	12S71 PBJEI	0.0	88.03	0.0	0.0	0.0
40	12S70HBJEI	0.0	54.73	18.24	0.0	0.0
41	22S79ZBJGK	0.0	0.0	0.0	0.0	0.0
42	22S74PBJGI	0.0	25.86	0.0	0.0	0.0
43	22S72HBJGG	0.0	0.0	0.0	0.0	0.0
44	32S7F ZBJ IN	0.0	0.0	0.0	0.0	0.0
45	32S75PBJ IL	0.0	0.0	0.0	0.0	0.0
46	32S72HBJ IJ	0.0	13.79	0.0	0.0	0.0
47	13S73PBJLQ	0.0	0.0	0.0	0.0	0.0
48	13S71HBJLQ	0.0	70.53	0.0	0.0	0.0
49	23S70ZBJNP	0.0	5.29	0.0	0.0	0.0
50	23S73PBJNN	0.0	25.52	6.38	0.0	0.0
51	23S71HBJNL	0.0	0.0	0.0	0.0	0.0
52	33S7F ZBJPP	0.0	0.0	0.0	0.0	0.0
53	33S74PBJPN	0.0	0.0	0.0	0.0	0.0
54	33S72HBJPL	0.0	22.76	0.0	0.0	0.0
55	14S74PBJRV	0.0	0.0	0.0	0.0	4.31
56	14S71HBJRT	0.0	68.96	0.0	0.0	0.0
57	24S79ZBJ IT	0.0	0.0	0.0	0.0	0.0
58	24S7 PBJTR	0.0	37.61	0.0	0.0	0.0
59	24S75HBJTP	0.0	0.0	0.0	0.0	0.0
60	14S7E ZBJVT	0.0	43.78	0.0	0.0	0.0

2 CONT.'D

61	34S78PBJVR	0.0	30.24	0.0	0.0	0.0
62	34S74HBJVR	0.0	0.0	0.0	0.0	0.0
63	SS11B0BH	0.0	26.00	0.0	0.0	0.0
64	SS11B0BJ	0.0	25.50	0.0	0.0	0.0
65	SS21B0DD	0.0	14.30	0.0	0.0	0.0
66	SS21B0DF	0.0	18.00	0.0	0.0	1.00
67	SS21B0DH	0.0	2.00	0.0	0.0	2.00
68	SS31B0FD	0.0	12.70	0.0	0.0	0.0
69	SS31B0FF	0.0	22.20	0.0	0.0	0.0
70	SS31B0FH	0.0	8.10	0.0	0.0	0.0
71	SS11B0HX	0.0	47.70	0.0	0.0	0.80
72	SS11B0HZ	0.0	37.00	1.00	0.0	0.0
73	SS21B0JW	0.0	13.00	0.0	0.0	0.0
74	SS21B0JY	1.00	0.0	0.0	0.0	0.0
75	SS21B0KA	0.0	3.00	0.0	0.0	0.0
76	SS31B0LY	0.0	6.70	0.30	0.0	0.30
77	SS31B0MA	0.0	7.00	0.0	0.0	0.0
78	SS31B0MC	0.0	25.00	0.0	0.0	0.0
79	SS11B0PA	0.0	0.0	0.0	0.0	0.0
80	SS11B0PC	0.0	11.30	0.0	0.0	0.0
81	SS21B0QW	0.0	4.00	0.0	0.0	0.0
82	SS21B0QY	0.0	9.00	0.0	0.0	0.0
83	SS21B0RA	0.0	9.00	0.0	0.0	0.0
84	SS31B0SW	0.0	5.00	0.0	0.0	0.0
85	SS31B0SY	0.0	9.00	0.0	0.0	0.0
86	SS31B0TA	0.0	22.80	0.0	0.0	0.0
87	SS11V0UZ	0.0	2.70	0.0	0.0	0.0
88	SS11V0VB	0.0	3.00	0.0	0.0	0.0
89	SS21V0WV	0.0	0.0	0.0	0.0	0.0
90	SS21V0WX	0.0	2.70	0.0	0.0	0.0
91	SS21V0WZ	0.0	2.80	0.0	0.0	0.0

TABLE 2 CONT.'D

92	SS31V80YY	0.0	33.30	0.0	0.0	0.0
93	SS31V80YX	0.0	4.00	0.0	0.0	0.0
94	SS31V80YZ	0.0	41.00	0.0	4.10	0.0
95		0.0	0.0	0.0	0.0	0.0
* * * * * NORMAL END OF JOB * * * * *						

TABLE 3

MONTHLY NISKIN DATA SHEETS

Explanation of Table:

The left-hand column contains general microplankton groups.

The other eight columns show the four letter sample code (Ex.= BLER), Depth of Sample, and Relative Depth (1/2pz = one-half the depth of the photic zone, pz = photic zone, and b = just off bottom).

Numbers within table are densities (number x  $10^3/m^3$ ).

Numbers behind relative depth are station numbers (Example: pz1 = photic zone/station 1)

TABLE 3 CONT.'D

July	BLER 21m pz1	BLEP 21m pz1	BLGF 31m pz2	BLGH 31m pz2	BLGJ 49m b2	BLHY 26m pz3	BLIA 52m pz3	BLIC 131m b3
cen. sol. diatoms		15	21	19	37	49	2	15
cen. col. diatoms		5	84	600	1176	1415	113	429
pen. sol. diatoms	116	15	2			11	2	5
pen. col. diatoms	29				5	110	20	10
Peridinium	116	31		2				
Gonyaulax	8049	1433	2	9	5		2	
Dinophysis					14			
Ceratium		5	10	16	9		4	
Noctiluca								
Dinoflagellates								
Silicoflagellates			7	9		5		3
Trichodesmium					5	5	4	
Coccolithophores								
oth. flagellates			2	9	56			
Spumellarians					5			
Acantharians	58	15	9	16	56	16	24	12
Nassellarians								
benthonic forams							2	
planktonic forams							8	5
tintinnids	29			5	5		2	13
other ciliates			2		28	27		
eggs			11		5			
coelenterates				2	5			
Doliolum								
Oikopleura			7					
shelled pteropod								
chaetognaths								
meropl. polych.				2				
calanoids	29			2			2	
harpacticoids								
cyclopoids								
naupliar larvae	262	73	3	7	19		12	8
ostracods								
echinoderms								
clams								
other	58	10	10		9	5	4	

TABLE 3 CONT.'D

August	BMQO 20m pz1	BMQM 20m $\frac{1}{2}$ pz1	BMSE 36m pz2	BMSC 36m $\frac{1}{2}$ pz2	BMSG 49m b2	BMTV 35m $\frac{1}{2}$ pz3	BMTX 70m pz3	BMTZ 131m b3
cen. sol. diatoms	1191	143	1	10	2		.25	.35
cen. col. diatoms	2210	164	3	6	9	2	.25	6.30
pen. sol. diatoms	94	46	2		11		.08	.17
pen. col. diatoms	31	4						.17
Peridinium	63	13	3			2		
Gonyaulax								
Dinophysis	47	13					.04	
Ceratium	204	67	3	4	7	6	.71	.35
Noctiluca				2				
Dinoflagellates								
Silicoflagellates								
Trichodesmium		17	3					
Coccolithophores								
oth. flagellates	78	17	11		36	5	.21	.35
Spumellarians								.35
Acantharians	94	8	2		2	5	1.22	.52
Nassellarians	16						.04	
benthonic forams		4					.04	
planktonic forams							.04	.17
tintinnids	94	21	11		38	3	.13	
other ciliates	31	4			2	2	.17	
eggs	16						.13	
coelenterates								
Doliolum								
Oikopleura			2	2		2		.17
shelled pteropod			3					
chaetognaths								
merpl. polych.	47	8						
calanoids	63		5	4	4	3	.13	.17
harpacticoids								
cyclopoids								
naupliar larvae	345	202	12	13	5	9	.59	.7
ostracods							.04	
echinoderms								
clams	47							
other	31	8	6	2	4		.08	.17

TABLE 3 CONT.'D

November	BSIY 7m 1/2pz1	BSJA 14m pz1	BSKN 23m 1/2pz2	BSKP 46m pz2	BSKR 49m b2	BSMH 34m 1/2pz3	BSMJ 68m pz3	BSML 131m b3
cen. sol. diatoms	171	14			10			
cen. col. diatoms	1652	1862	+	76	137	4		
pen. sol. diatoms	62	48		3	52			
pen. col. diatoms	85	34			5	2		
Peridinium	23							
Gonyaulax								
Dinophysis	16							
Ceratium				3	8			
Noctiluca	8							
Dinoflagellates								
Silicoflagellates								
Trichodesmium								
Coccolithophores								
oth. flagellates	140	28						
Spumellarians								
Acantharians	8	7			18		.9	
Nassellarians								
benthonic forams								
planktonic forams					3			
tintinnids	31							
other ciliates					5		.9	
eggs								
coelenterates								
Doliolum								
Oikopleura		7						
shelled pteropod								
chaetognaths						2		
merpl. polych.		21			3			
calanoids		7			3	8	2.7	
harpacticoids								
cyclopoids								
naupliar larvae	70	34	+	3	13	8	3.6	1.5
ostracods								
echinoderms								
clams					3			
other	54	7			3			



TABLE 3 CONT. 'D

December	BTXF	BTXH	BTYW	BTYY	BTZA	BUAP	BUAR	BUAT
	3m ½pz1	6m pz1	15m ½pz2	30m pz2	49m b2	13m ½pz3	26m pz3	131m b3
cen. sol. diatoms	17	34	21		33	4	10	.69
cen. col. diatoms	7	7	50	84	41	12	32	2.07
pen. sol. diatoms	17	2		21	72	5	9	1.38
pen. col. diatoms	3	5	16	16	8	6	7	.69
Peridinium								
Gonyaulax								
Dinophysis				3	4	.4		
Ceratium	17		1		2	.4	5	
Noctiluca			3					
Dinoflagellates								
Silicoflagellates								
Trichodesmium							2	.69
Coccolithophores								
oth. flagellates	40	9	1	2		.4	7	
Spumellarians	3				2			
Acantharians	6	2	1	9	4			
Nassellarians								
benthonic forams								
planktonic forams			4			.4		
tintinnids				2	2	.9	1	
other ciliates				3	2	.4	1	.69
eggs	3	7	1			.4		.69
coelenterates								
Doliolum			1					
Oikopleura	11		1					
shelled pteropod	3	7				.4	3	
chaetognaths		2						
meropl. polych.	3				2			
calanoids	6	3	9	3		2.6		.69
harpacticoids		2						
cyclopoids	6							
naupliar larvae	69	41	16	7	19	7.6	9	1.38
ostracods								
echinoderms		2						
clams		2			2			
other	75	50	3	14	12	2	9	2.76

APPENDIX L

CILIATED PROTOZOA

List of Tables

<u>Table</u>		<u>Page</u>
1	List of Species and Their Abundance in Numbers/ℓ for Each Sample Collected in 1977 From the STOCS	L-2

APPENDIX L

TABLE 1

LIST OF SPECIES AND THEIR ABUNDANCE IN NUMBERS/ℓ FOR EACH SAMPLE  
COLLECTED IN 1977 FROM THE STOCS

Explanation of Table:

SACD - sample code  
S - station  
T - transect  
DATE - date  
TIME - time of sampling  
Z - depth of sample  
SPCD - species code  
NOPL - number of organisms/ℓ

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BAYP	2	4	011977	1630	11	5440	TIARINA FUSUS	24
BAYP	2	4	011977	1630	11	1470	TINTINNOPSIS COMPRESSA	44
BAYP	2	4	011977	1630	11	2565	TONTONIA GRACILLINA	4
BSPB	3	4	011877	1100	01	1135	DICTYOCYSTA LATA	4
BSPB	3	4	011877	1100	01	2235	LOHMANIELLA OVIFORMIS	44
BSPB	3	4	011877	1100	01	2400	STROMBIDIUM CALKINSI	20
BSPB	3	4	011877	1100	01	2405	STROMBIDIUM CONICUM	8
BSPB	3	4	011877	1100	01	2415	STROMBIDIUM OVALE	64
BSPB	3	4	011877	1100	01	2425	STROMBIDIUM SULCATUM	64
BSPB	3	4	011877	1100	01	2430	STROMBIDIUM TYPICUM	8
BSPB	3	4	011877	1100	01	5445	TIARINA GIGANTEA	4
BBAJ	3	4	011877	1100	20	1045	AMPHORIDES QUADRILINEATA	4
BBAJ	3	4	011877	1100	20	1135	DICTYOCYSTA LATA	8
BBAJ	3	4	011877	1100	20	3210	GLOBIGERINA PACHYDERMA	4
BBAJ	3	4	011877	1100	20	2235	LOHMANIELLA OVIFORMIS	68
BBAJ	3	4	011877	1100	20	5250	NASSULA MICROSPORA	8
BBAJ	3	4	011877	1100	20	1355	SALPINGACANTHA UNDATA	4
BBAJ	3	4	011877	1100	20	2400	STROMBIDIUM CALKINSI	12
BBAJ	3	4	011877	1100	20	2405	STROMBIDIUM CONICUM	12
BBAJ	3	4	011877	1100	20	2415	STROMBIDIUM OVALE	156
BBAJ	3	4	011877	1100	20	2420	STROMBIDIUM STROBILUS	8
BBAJ	3	4	011877	1100	20	2425	STROMBIDIUM SULCATUM	72
BBAJ	3	4	011877	1100	20	2430	STROMBIDIUM TYPICUM	28
BSPC	1	2	031577	1000	01	5155	EPHELOTA GEMINARIA	4
BSPC	1	2	031577	1000	01	2235	LOHMANIELLA OVIFORMIS	24
BSPC	1	2	031577	1000	01	5245	MESODINIUM RUBRUM	28
BSPC	1	2	031577	1000	01	5250	NASSULA MICROSPORA	464
BSPC	1	2	031577	1000	01	2395	STROMBIDIUM ACUMINATUM	12
BSPC	1	2	031577	1000	01	2400	STROMBIDIUM CALKINSI	508
BSPC	1	2	031577	1000	01	2405	STROMBIDIUM CONICUM	396
BSPC	1	2	031577	1000	01	2415	STROMBIDIUM OVALE	136

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSPC	1	2	031577	1000	01	2420	STROMBIDIUM STROBILUS	600
BSPC	1	2	031577	1000	01	2425	STROMBIDIUM SULCATUM	256
BSPC	1	2	031577	1000	01	2430	STROMBIDIUM TYPICUM	292
BSPC	1	2	031577	1000	01	5440	TIARINA FUSUS	44
BSPC	1	2	031577	1000	01	5445	TIARINA GIGANTEA	176
BSPC	1	2	031577	1000	01	1450	TINTINNIDIUM INCERTUM	1016
BSPC	1	2	031577	1000	01	1470	TINTINNOPSIS COMPRESSA	16
BSPC	1	2	031577	1000	01	1530	TINTINNOPSIS PARVULA	12
BSPD	1	2	031577	1000	03	5155	EPELOTA GEMINARIA	60
BSPD	1	2	031577	1000	03	3210	GLUBIGERINA PACHYDERMA	4
BSPD	1	2	031577	1000	03	2235	LOHMANIELLA OVIFORMIS	28
BSPD	1	2	031577	1000	03	5245	MESODINIUM RUBRUM	20
BSPD	1	2	031577	1000	03	5250	NASSULA MICROSPORA	236
BSPD	1	2	031577	1000	03	2400	STROMBIDIUM CALKINSI	88
BSPD	1	2	031577	1000	03	2405	STROMBIDIUM CONICUM	184
BSPD	1	2	031577	1000	03	2415	STROMBIDIUM OVALE	108
BSPD	1	2	031577	1000	03	2420	STROMBIDIUM STROBILUS	440
BSPD	1	2	031577	1000	03	2425	STROMBIDIUM SULCATUM	224
BSPD	1	2	031577	1000	03	2430	STROMBIDIUM TYPICUM	320
BSPD	1	2	031577	1000	03	5440	TIARINA FUSUS	52
BSPD	1	2	031577	1000	03	5445	TIARINA GIGANTEA	200
BSPD	1	2	031577	1000	03	1450	TINTINNIDIUM INCERTUM	664
BSPD	1	2	031577	1000	03	1470	TINTINNOPSIS COMPRESSA	24
BSPE	2	2	031477	1215	01	5245	MESODINIUM RUBRUM	20
BSPE	2	2	031477	1215	01	5250	NASSULA MICROSPORA	24
BSPE	2	2	031477	1215	01	1380	STEENSTRUPIELLA GRACILIS	4
BSPE	2	2	031477	1215	01	2400	STROMBIDIUM CALKINSI	132
BSPE	2	2	031477	1215	01	2405	STROMBIDIUM CONICUM	256
BSPE	2	2	031477	1215	01	2415	STROMBIDIUM OVALE	72
BSPE	2	2	031477	1215	01	2420	STROMBIDIUM STROBILUS	364
BSPE	2	2	031477	1215	01	2425	STROMBIDIUM SULCATUM	176
BSPE	2	2	031477	1215	01	2430	STROMBIDIUM TYPICUM	336

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
----	-	-	-----	----	--	----	-----	-----
BSPF	2	2	031477	1215	01	5440	TIARINA FUSUS	4
BSPF	2	2	031477	1215	01	5445	TIARINA GIGANTEA	8
BSPF	2	2	031477	1215	21	5155	EPHELOTA GEMINARIA	80
BSPF	2	2	031477	1215	21	2235	LOHMANIELLA OVIFORMIS	40
BSPF	2	2	031477	1215	21	5245	MESODINIUM RUBRUM	4548
BSPF	2	2	031477	1215	21	5250	NASSULA MICROSPORA	24
BSPF	2	2	031477	1215	21	2395	STROMBIDIUM ACUMINATUM	12
BSPF	2	2	031477	1215	21	2400	STROMBIDIUM CALKINSI	44
BSPF	2	2	031477	1215	21	2405	STROMBIDIUM CONICUM	296
BSPF	2	2	031477	1215	21	2415	STROMBIDIUM OVALE	592
BSPF	2	2	031477	1215	21	2420	STROMBIDIUM STROBILUS	164
BSPF	2	2	031477	1215	21	2425	STROMBIDIUM SULCATUM	548
BSPF	2	2	031477	1215	21	2430	STROMBIDIUM TYPICUM	136
BSPF	2	2	031477	1215	21	5440	TIARINA FUSUS	60
BSPF	2	2	031477	1215	21	5445	TIARINA GIGANTEA	4
BSPF	2	2	031477	1215	21	1470	TINTINNOPSIS COMPRESSA	4
BSPG	3	2	031477	1800	01	5155	EPHELOTA GEMINARIA	142
BSPG	3	2	031477	1800	01	2235	LOHMANIELLA OVIFORMIS	47
BSPG	3	2	031477	1800	01	5245	MESODINIUM RUBRUM	802
BSPG	3	2	031477	1800	01	5250	NASSULA MICROSPORA	47
BSPG	3	2	031477	1800	01	2395	STROMBIDIUM ACUMINATUM	94
BSPG	3	2	031477	1800	01	2400	STROMBIDIUM CALKINSI	142
BSPG	3	2	031477	1800	01	2405	STROMBIDIUM CONICUM	1085
BSPG	3	2	031477	1800	01	2415	STROMBIDIUM OVALE	1274
BSPG	3	2	031477	1800	01	2420	STROMBIDIUM STROBILUS	3632
BSPG	3	2	031477	1800	01	2425	STROMBIDIUM SULCATUM	613
BSPG	3	2	031477	1800	01	2430	STROMBIDIUM TYPICUM	4717
BSPH	3	2	031477	1800	21	5155	EPHELOTA GEMINARIA	52
BSPH	3	2	031477	1800	21	2235	LOHMANIELLA OVIFORMIS	152
BSPH	3	2	031477	1800	21	5245	MESODINIUM RUBRUM	140
BSPH	3	2	031477	1800	21	5250	NASSULA MICROSPORA	40

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSPH	3	2	031477	1800	21	2400	STROMBIDIUM CALKINSI	160
BSPH	3	2	031477	1800	21	2405	STROMBIDIUM CONICUM	276
BSPH	3	2	031477	1800	21	2415	STROMBIDIUM OVALE	1872
BSPH	3	2	031477	1800	21	2420	STROMBIDIUM STROBILUS	284
BSPH	3	2	031477	1800	21	2425	STROMBIDIUM SULCATUM	752
BSPH	3	2	031477	1800	21	2430	STROMBIDIUM TYPICUM	420
BSPH	3	2	031477	1800	21	5440	TIARINA FUSUS	160
BSPH	3	2	031477	1800	21	1470	TINTINNOPSIS COMPRESSA	4
BSPH	3	2	031477	1800	21	2565	TONTONIA GRACILLIMA	16
BSP1	1	2	042177	0700	01	5155	EPHELOTA GEMINARIA	12
BSP1	1	2	042177	0700	01	2235	LUHMANIELLA OVIFORMIS	24
BSP1	1	2	042177	0700	01	5250	NASSULA MICROSPORA	12
BSP1	1	2	042177	0700	01	1385	STENOSEMELLA VENTRICOSA	12
BSP1	1	2	042177	0700	01	2395	STROMBIDIUM ACUMINATUM	12
BSP1	1	2	042177	0700	01	2400	STROMBIDIUM CALKINSI	100
BSP1	1	2	042177	0700	01	2405	STROMBIDIUM CONICUM	128
BSP1	1	2	042177	0700	01	2410	STROMBIDIUM CORNUCOPIAE	20
BSP1	1	2	042177	0700	01	2415	STROMBIDIUM OVALE	8
BSP1	1	2	042177	0700	01	2420	STROMBIDIUM STROBILUS	88
BSP1	1	2	042177	0700	01	2425	STROMBIDIUM SULCATUM	96
BSP1	1	2	042177	0700	01	2430	STROMBIDIUM TYPICUM	116
BSP1	1	2	042177	0700	01	5440	TIARINA FUSUS	156
BSP1	1	2	042177	0700	01	5445	TIARINA GIGANTEA	60
BSP1	1	2	042177	0700	01	1450	TINTINNIDIUM INCERTUM	224
BSP1	1	2	042177	0700	01	1470	TINTINNOPSIS COMPRESSA	4
BSP1	1	2	042177	0700	01	1480	TINTINNOPSIS DADAYI	24
BSP1	1	2	042177	0700	01	1560	TINTINNUS TUBULOSUS	28
BSPJ	1	2	042177	0700	01	1090	CODONELLOPSIS AMERICANA	8
BSPJ	1	2	042177	0700	01	5145	DIDINIUM GIGANTEA	16
BSPJ	1	2	042177	0700	01	5155	EPHELOTA GEMINARIA	16
BSPJ	1	2	042177	0700	01	2235	LUHMANIELLA OVIFORMIS	16
BSPJ	1	2	042177	0700	01	5245	MESODINIUM RUBRUM	4

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BSPJ	1	2	042177	0700	01	5250	NASSULA MICROSPORA	8
BSPJ	1	2	042177	0700	01	2395	STROMBIDIUM ACUMINATUM	28
BSPJ	1	2	042177	0700	01	2400	STROMBIDIUM CALKINSI	136
BSPJ	1	2	042177	0700	01	2405	STROMBIDIUM CONICUM	96
BSPJ	1	2	042177	0700	01	2410	STROMBIDIUM CORNUCOPIAE	16
BSPJ	1	2	042177	0700	01	2415	STROMBIDIUM OVALE	12
BSPJ	1	2	042177	0700	01	2420	STROMBIDIUM STROBILUS	184
BSPJ	1	2	042177	0700	01	2425	STROMBIDIUM SULCATUM	116
BSPJ	1	2	042177	0700	01	2430	STROMBIDIUM TYPICUM	148
BSPJ	1	2	042177	0700	01	5440	TIARINA FUSUS	216
BSPJ	1	2	042177	0700	01	5445	TIARINA GIGANTEA	128
BSPJ	1	2	042177	0700	01	1450	TINTINNIDIUM INCERTUM	268
BSPJ	1	2	042177	0700	01	1470	TINTINNOPSIS COMPRESSA	24
BSPJ	1	2	042177	0700	01	1480	TINTINNOPSIS DADAYI	20
BSPJ	1	2	042177	0700	01	1515	TINTINNOPSIS LUBIANCUI	4
BSPJ	1	2	042177	0700	01	1520	TINTINNOPSIS MINUTA	8
BSPJ	1	2	042177	0700	01	1560	TINTINNUS TUBULOSUS	60
BSPK	1	2	042177	0700	01	3055	BOLIVINA STRIATULA	4
BSPK	1	2	042177	0700	01	5145	DIDINIUM GIGANTEA	8
BSPK	1	2	042177	0700	01	5155	EPHELOTA GEMINARIA	8
BSPK	1	2	042177	0700	01	1185	EUTINTINNUS LASUS-UNDAE	12
BSPK	1	2	042177	0700	01	2235	LOHMANIELLA OVIFORMIS	20
BSPK	1	2	042177	0700	01	2395	STROMBIDIUM ACUMINATUM	4
BSPK	1	2	042177	0700	01	2400	STROMBIDIUM CALKINSI	100
BSPK	1	2	042177	0700	01	2405	STROMBIDIUM CONICUM	124
BSPK	1	2	042177	0700	01	2410	STROMBIDIUM CORNUCOPIAE	8
BSPK	1	2	042177	0700	01	2415	STROMBIDIUM OVALE	16
BSPK	1	2	042177	0700	01	2420	STROMBIDIUM STROBILUS	148
BSPK	1	2	042177	0700	01	2425	STROMBIDIUM SULCATUM	120
BSPK	1	2	042177	0700	01	2430	STROMBIDIUM TYPICUM	172
BSPK	1	2	042177	0700	01	5440	TIARINA FUSUS	168
BSPK	1	2	042177	0700	01	5445	TIARINA GIGANTEA	96
BSPK	1	2	042177	0700	01	1450	TINTINNIDIUM INCERTUM	228



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BSPK	1	2	042177	0700	01	1455	TINTINNOPSIS ACUMINATA	8
BSPK	1	2	042177	0700	01	1470	TINTINNOPSIS COMPRESSA	16
BSPK	1	2	042177	0700	01	1480	TINTINNOPSIS DADAYI	24
BSPK	1	2	042177	0700	01	1530	TINTINNOPSIS PARVULA	4
BSPK	1	2	042177	0700	01	1560	TINTINNUS TUBULOSUS	36
BSPK	1	2	042177	0700	01	5600	UNIDENTIFIED PROTOZOA	12
B SPL	1	2	042177	0700	02	5145	DIDINIUM GIGANTEA	4
B SPL	1	2	042177	0700	02	5155	EPHELLOIA GEMINARIA	8
B SPL	1	2	042177	0700	02	1185	EUTINTINNUS LASUS-UNDAE	4
B SPL	1	2	042177	0700	02	2235	LOHMANIELLA OVIFORMIS	8
B SPL	1	2	042177	0700	02	2395	STROMBIDIUM ACUMINATUM	8
B SPL	1	2	042177	0700	02	2400	STROMBIDIUM CALKINSI	112
B SPL	1	2	042177	0700	02	2405	STROMBIDIUM CONICUM	56
B SPL	1	2	042177	0700	02	2410	STROMBIDIUM CORNUCOPIAE	8
B SPL	1	2	042177	0700	02	2420	STROMBIDIUM STROBILUS	224
B SPL	1	2	042177	0700	02	2425	STROMBIDIUM SULCATUM	80
B SPL	1	2	042177	0700	02	2430	STROMBIDIUM TYPICUM	68
B SPL	1	2	042177	0700	02	5440	TIARINA FUSUS	136
B SPL	1	2	042177	0700	02	5445	TIARINA GIGANTEA	60
B SPL	1	2	042177	0700	02	1450	TINTINNIDIUM INCERTUM	257
B SPL	1	2	042177	0700	02	1455	TINTINNOPSIS ACUMINATA	8
B SPL	1	2	042177	0700	02	1480	TINTINNOPSIS DADAYI	40
B SPL	1	2	042177	0700	02	1545	TINTINNOPSIS STRIGOSA	4
B SPL	1	2	042177	0700	02	1560	TINTINNUS TUBULOSUS	4
BSPM	2	2	042077	1145	01	1185	EUTINTINNUS LASUS-UNDAE	224
BSPM	2	2	042077	1145	01	3215	HASTIGERINA PELAGICA	4
BSPM	2	2	042077	1145	01	2235	LOHMANIELLA OVIFORMIS	8
BSPM	2	2	042077	1145	01	2400	STROMBIDIUM CALKINSI	84
BSPM	2	2	042077	1145	01	2405	STROMBIDIUM CONICUM	116
BSPM	2	2	042077	1145	01	2415	STROMBIDIUM OVALE	88
BSPM	2	2	042077	1145	01	2420	STROMBIDIUM STROBILUS	124
BSPM	2	2	042077	1145	01	2425	STROMBIDIUM SULCATUM	400

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BSPM	2	2	042077	1145	01	2430	STROMBIDIUM TYPICUM	980
BSPM	2	2	042077	1145	01	5440	TIARINA FUSUS	292
BSPN	2	2	042077	1145	01	5145	DIDINIUM GIGANTEA	4
BSPN	2	2	042077	1145	01	5155	EPHELUTA GEMINARIA	8
BSPN	2	2	042077	1145	01	5175	EUPLUTES SEXCOSTATUS	4
BSPN	2	2	042077	1145	01	1185	EUTINTINNUS LASUS-UNDAE	248
BSPN	2	2	042077	1145	01	3215	HASTIGERINA PELAGICA	4
BSPN	2	2	042077	1145	01	2235	LUHMANIELLA OVIFORMIS	20
BSPN	2	2	042077	1145	01	2395	STROMBIDIUM ACUMINATUM	4
BSPN	2	2	042077	1145	01	2400	STROMBIDIUM CALKINSI	40
BSPN	2	2	042077	1145	01	2405	STROMBIDIUM CONICUM	44
BSPN	2	2	042077	1145	01	2415	STROMBIDIUM OVALE	104
BSPN	2	2	042077	1145	01	2420	STROMBIDIUM STROBILUS	152
BSPN	2	2	042077	1145	01	2425	STROMBIDIUM SULCATUM	340
BSPN	2	2	042077	1145	01	2430	STROMBIDIUM TYPICUM	1012
BSPN	2	2	042077	1145	01	5440	TIARINA FUSUS	400
BSP0	2	2	042077	1145	01	5155	EPHELUTA GEMINARIA	12
BSP0	2	2	042077	1145	01	1185	EUTINTINNUS LASUS-UNDAE	296
BSP0	2	2	042077	1145	01	2235	LUHMANIELLA OVIFORMIS	36
BSP0	2	2	042077	1145	01	4370	SPHAEROZOOM PUNCTATA	32
BSP0	2	2	042077	1145	01	2400	STROMBIDIUM CALKINSI	48
BSP0	2	2	042077	1145	01	2405	STROMBIDIUM CONICUM	116
BSP0	2	2	042077	1145	01	2415	STROMBIDIUM OVALE	124
BSP0	2	2	042077	1145	01	2420	STROMBIDIUM STROBILUS	84
BSP0	2	2	042077	1145	01	2425	STROMBIDIUM SULCATUM	316
BSP0	2	2	042077	1145	01	2430	STROMBIDIUM TYPICUM	1136
BSP0	2	2	042077	1145	01	5440	TIARINA FUSUS	440
BSPP	2	2	042077	1145	15	1085	CLIMACOCYLIS SCALAROIDES	4
BSPP	2	2	042077	1145	15	5155	EPHELUTA GEMINARIA	56
BSPP	2	2	042077	1145	15	5175	EUPLUTES SEXCOSTATUS	12
BSPP	2	2	042077	1145	15	1185	EUTINTINNUS LASUS-UNDAE	116

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BSPP	2	2	042077	1145	15	2235	LOHMANIELLA OVIFORMIS	28
BSPP	2	2	042077	1145	15	2405	STROMBIDIUM CONICUM	56
BSPP	2	2	042077	1145	15	2415	STROMBIDIUM OVALE	72
BSPP	2	2	042077	1145	15	2420	STROMBIDIUM STROBILUS	64
BSPP	2	2	042077	1145	15	2425	STROMBIDIUM SULCATUM	192
BSPP	2	2	042077	1145	15	2430	STROMBIDIUM TYPICUM	136
BSPP	2	2	042077	1145	15	5440	TIARINA FUSUS	336
BSPQ	3	2	042077	1800	01	1010	ACANTHOSIOMELLA GRACILIS	8
BSPQ	3	2	042077	1800	01	5175	EUPLUTES SEXCOSTATUS	8
BSPQ	3	2	042077	1800	01	1185	EUTINTINNUS LASUS-UNDAE	104
BSPQ	3	2	042077	1800	01	5210	GLOBIGERINA PACHYDERMA	4
BSPQ	3	2	042077	1800	01	2235	LOHMANIELLA OVIFORMIS	60
BSPQ	3	2	042077	1800	01	5245	MESODINIUM RUBRUM	4
BSPQ	3	2	042077	1800	01	2400	STROMBIDIUM CALKINSI	124
BSPQ	3	2	042077	1800	01	2405	STROMBIDIUM CONICUM	160
BSPQ	3	2	042077	1800	01	2415	STROMBIDIUM OVALE	240
BSPQ	3	2	042077	1800	01	2420	STROMBIDIUM STROBILUS	156
BSPQ	3	2	042077	1800	01	2425	STROMBIDIUM SULCATUM	700
BSPQ	3	2	042077	1800	01	2430	STROMBIDIUM TYPICUM	160
BSPQ	3	2	042077	1800	01	5440	TIARINA FUSUS	460
BSPQ	3	2	042077	1800	01	1470	TINTINNOPSIS COMPRESSA	4
BSPQ	3	2	042077	1800	01	1585	UNDELLA HYALINA	4
BSPR	3	2	042077	1800	01	1010	ACANTHOSIOMELLA GRACILIS	4
BSPR	3	2	042077	1800	01	1085	CLIMACOCYLIS SCALAROIDES	4
BSPR	3	2	042077	1800	01	5155	EPHELUTA GEMINARIA	4
BSPR	3	2	042077	1800	01	5175	EUPLUTES SEXCOSTATUS	16
BSPR	3	2	042077	1800	01	1185	EUTINTINNUS LASUS-UNDAE	72
BSPR	3	2	042077	1800	01	2235	LOHMANIELLA OVIFORMIS	40
BSPR	3	2	042077	1800	01	5245	MESODINIUM RUBRUM	8
BSPR	3	2	042077	1800	01	1305	PROTORHABDONELLA CURTA	4
BSPR	3	2	042077	1800	01	2400	STROMBIDIUM CALKINSI	156
BSPR	3	2	042077	1800	01	2405	STROMBIDIUM CONICUM	124

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BSPR	3	2	042077	1800	01	2415	STROMBIDIUM OVALE	172
BSPR	3	2	042077	1800	01	2420	STROMBIDIUM STROBILUS	180
BSPR	3	2	042077	1800	01	2425	STROMBIDIUM SULCATUM	640
BSPR	3	2	042077	1800	01	2430	STROMBIDIUM TYPICUM	136
BSPR	3	2	042077	1800	01	5440	TIARINA FUSUS	396
BSPS	3	2	042077	1800	01	1085	CLIMACOCYLIS SCALAROIDES	4
BSPS	3	2	042077	1800	01	1115	DADAYIELLA GANYMEDES	8
BSPS	3	2	042077	1800	01	5155	EPHELOTA GEMINARIA	12
BSPS	3	2	042077	1800	01	5175	EUPLOTES SEXCOSTATUS	4
BSPS	3	2	042077	1800	01	1185	EUTINTINNUS LASUS-UNDAE	116
BSPS	3	2	042077	1800	01	2235	LOHMANIELLA OVIFORMIS	36
BSPS	3	2	042077	1800	01	5245	MESUDINIUM RUBRUM	4
BSPS	3	2	042077	1800	01	1355	SALPINGACANTHA UNDATA	4
BSPS	3	2	042077	1800	01	2400	STROMBIDIUM CALKINSI	144
BSPS	3	2	042077	1800	01	2405	STROMBIDIUM CONICUM	280
BSPS	3	2	042077	1800	01	2415	STROMBIDIUM OVALE	136
BSPS	3	2	042077	1800	01	2420	STROMBIDIUM STROBILUS	232
BSPS	3	2	042077	1800	01	2425	STROMBIDIUM SULCATUM	552
BSPS	3	2	042077	1800	01	2430	STROMBIDIUM TYPICUM	156
BSPS	3	2	042077	1800	01	5440	TIARINA FUSUS	408
BSPS	3	2	042077	1800	01	1470	TINTINNOPSIS COMPRESSA	8
BSP1	3	2	042077	1800	22	4080	CLATHROCONICUM SP.	4
BSP1	3	2	042077	1800	22	1085	CLIMACOCYLIS SCALAROIDES	4
BSP1	3	2	042077	1800	22	1115	DADAYIELLA GANYMEDES	12
BSP1	3	2	042077	1800	22	5175	EUPLOTES SEXCOSTATUS	4
BSP1	3	2	042077	1800	22	1185	EUTINTINNUS LASUS-UNDAE	24
BSP1	3	2	042077	1800	22	2235	LOHMANIELLA OVIFORMIS	80
BSP1	3	2	042077	1800	22	5245	MESUDINIUM RUBRUM	16
BSP1	3	2	042077	1800	22	1345	RHABDONELLOPSIS TRITON	8
BSP1	3	2	042077	1800	22	2395	STROMBIDIUM ACUMINATUM	8
BSP1	3	2	042077	1800	22	2400	STROMBIDIUM CALKINSI	60
BSP1	3	2	042077	1800	22	2405	STROMBIDIUM CONICUM	40

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BSP1	3	2	042077	1800	22	2415	STROMBIDIUM OVALE	100
BSP1	3	2	042077	1800	22	2420	STROMBIDIUM STROBILUS	24
BSP1	3	2	042077	1800	22	2425	STROMBIDIUM SULCATUM	124
BSP1	3	2	042077	1800	22	2430	STROMBIDIUM TYPICUM	36
BSP1	3	2	042077	1800	22	5440	TIARINA FUSUS	148
BSP1	3	2	042077	1800	22	2565	TONTONIA GRACILLIMA	8
BIYB	1	1	052077	1710	01	2235	LOHMANIELLA OVIFORMIS	12
BIYB	1	1	052077	1710	01	1310	PSEUDOMETACYLIS ORNATA	8
BIYB	1	1	052077	1710	01	1385	STENOSEMELLA VENTRICOSA	120
BIYB	1	1	052077	1710	01	2400	STROMBIDIUM CALKINSI	64
BIYB	1	1	052077	1710	01	2405	STROMBIDIUM CONICUM	32
BIYB	1	1	052077	1710	01	2410	STROMBIDIUM CORNUCOPIAE	4
BIYB	1	1	052077	1710	01	2415	STROMBIDIUM OVALE	4
BIYB	1	1	052077	1710	01	2420	STROMBIDIUM STROBILUS	32
BIYB	1	1	052077	1710	01	2425	STROMBIDIUM SULCATUM	100
BIYB	1	1	052077	1710	01	2430	STROMBIDIUM TYPICUM	32
BIYB	1	1	052077	1710	01	5440	TIARINA FUSUS	208
BIYB	1	1	052077	1710	01	1450	TINTINNIDIUM INCERTUM	24
BIYB	1	1	052077	1710	01	1455	TINTINNOPSIS ACUMINATA	4
BIYB	1	1	052077	1710	01	1460	TINTINNOPSIS BRANDTI	20
BIYB	1	1	052077	1710	01	1515	TINTINNOPSIS LOBIANCOI	32
BIYB	1	1	052077	1710	01	1535	TINTINNOPSIS RADIX	4
BIYB	1	1	052077	1710	01	2565	TONTONIA GRACILLIMA	8
BIYC	1	1	052077	1710	03	1045	AMPHORIDES QUADRILINEATA	4
BIYC	1	1	052077	1710	03	2235	LOHMANIELLA OVIFORMIS	28
BIYC	1	1	052077	1710	03	1310	PSEUDOMETACYLIS ORNATA	8
BIYC	1	1	052077	1710	03	1385	STENOSEMELLA VENTRICOSA	104
BIYC	1	1	052077	1710	03	2395	STROMBIDIUM ACUMINATUM	8
BIYC	1	1	052077	1710	03	2400	STROMBIDIUM CALKINSI	68
BIYC	1	1	052077	1710	03	2405	STROMBIDIUM CONICUM	56
BIYC	1	1	052077	1710	03	2410	STROMBIDIUM CORNUCOPIAE	8
BIYC	1	1	052077	1710	03	2420	STROMBIDIUM STROBILUS	20

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BIYC	1	1	052077	1710	03	2425	STROMBIDIUM SULCATUM	116
BIYC	1	1	052077	1710	03	2430	STROMBIDIUM TYPICUM	36
BIYC	1	1	052077	1710	03	5440	TIARINA FUSUS	380
BIYC	1	1	052077	1710	03	1450	TINTINNIDIUM INCERTUM	28
BIYC	1	1	052077	1710	03	1455	TINTINNOPSIS ACUMINATA	24
BIYC	1	1	052077	1710	03	1460	TINTINNOPSIS BRANDII	8
BIYC	1	1	052077	1710	03	1480	TINTINNOPSIS DADAYI	4
BIYC	1	1	052077	1710	03	1515	TINTINNOPSIS LOBIANCOI	28
BIYC	1	1	052077	1710	03	1555	TINTINNOPSIS TUBULOSA	4
BIYC	1	1	052077	1710	03	2565	TONTONIA GRACILLIMA	20
BJAB	2	1	052077	1315	01	1115	DADAYIELLA GANYMEDES	16
BJAB	2	1	052077	1315	01	1185	EUTINTINNUS LASUS-UNDAE	4
BJAB	2	1	052077	1315	01	2235	LUHMANIELLA OVIFORMIS	16
BJAB	2	1	052077	1315	01	5245	MESODINIUM RUBRUM	96
BJAB	2	1	052077	1315	01	1310	PSEUDOMETACYLIS ORNATA	8
BJAB	2	1	052077	1315	01	1385	STENOSEMELLA VENTRICOSA	4
BJAB	2	1	052077	1315	01	2400	STROMBIDIUM CALKINSI	52
BJAB	2	1	052077	1315	01	2405	STROMBIDIUM CONICUM	56
BJAB	2	1	052077	1315	01	2415	STROMBIDIUM OVALE	40
BJAB	2	1	052077	1315	01	2420	STROMBIDIUM STROBILUS	120
BJAB	2	1	052077	1315	01	2425	STROMBIDIUM SULCATUM	104
BJAB	2	1	052077	1315	01	2430	STROMBIDIUM TYPICUM	60
BJAB	2	1	052077	1315	01	5440	TIARINA FUSUS	236
BJAB	2	1	052077	1315	01	2565	TONTONIA GRACILLIMA	60
BJAC	2	1	052077	1315	07	1045	AMPHORIDES QUADRILINEATA	4
BJAC	2	1	052077	1315	07	5145	DIDINIUM GIGANTEA	4
BJAC	2	1	052077	1315	07	5155	EPHELUTA GEMINARIA	12
BJAC	2	1	052077	1315	07	2235	LUHMANIELLA OVIFORMIS	52
BJAC	2	1	052077	1315	07	5245	MESODINIUM RUBRUM	76
BJAC	2	1	052077	1315	07	2400	STROMBIDIUM CALKINSI	84
BJAC	2	1	052077	1315	07	2405	STROMBIDIUM CONICUM	96
BJAC	2	1	052077	1315	07	2410	STROMBIDIUM CORNUCOPIAE	4

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJAC	2	1	052077	1315	07	2415	STROMBIDIUM OVALE	28
BJAC	2	1	052077	1315	07	2420	STROMBIDIUM STROBILUS	204
BJAC	2	1	052077	1315	07	2425	STROMBIDIUM SULCATUM	120
BJAC	2	1	052077	1315	07	2430	STROMBIDIUM TYPICUM	104
BJAC	2	1	052077	1315	07	5440	TIARINA FUSUS	232
BJAC	2	1	052077	1315	07	5445	TIARINA GIGANTEA	4
BJAC	2	1	052077	1315	07	1520	TINTINNOPSIS MINUTA	8
BJAC	2	1	052077	1315	07	1555	TINTINNOPSIS TUBULOSA	4
BJAC	2	1	052077	1315	07	2565	TONTONIA GRACILLIMA	108
DKCC	3	1	052077	0840	01	1045	AMPHORIDES QUADRILINEATA	4
DKCC	3	1	052077	0840	01	1085	CLIMACOCYLIS SCALAROIDES	16
DKCC	3	1	052077	0840	01	1115	DADAYIELLA GANYMEDES	24
DKCC	3	1	052077	0840	01	5155	EPHELOTA GEMINARIA	8
DKCC	3	1	052077	0840	01	5175	EUPLOTES SEXCOSTATUS	4
DKCC	3	1	052077	0840	01	1185	EUTINTINNUS LASUS-UNDAE	12
DKCC	3	1	052077	0840	01	2235	LOHMANIELLA OVIFORMIS	76
DKCC	3	1	052077	0840	01	1345	RHABDONELLOPSIS TRITON	4
DKCC	3	1	052077	0840	01	4370	SPHAERUZOOM PUNCTATA	4
DKCC	3	1	052077	0840	01	2395	STROMBIDIUM ACUMINATUM	12
DKCC	3	1	052077	0840	01	2400	STROMBIDIUM CALKINSI	292
DKCC	3	1	052077	0840	01	2405	STROMBIDIUM CONICUM	168
DKCC	3	1	052077	0840	01	2415	STROMBIDIUM OVALE	248
DKCC	3	1	052077	0840	01	2420	STROMBIDIUM STROBILUS	148
DKCC	3	1	052077	0840	01	2425	STROMBIDIUM SULCATUM	368
DKCC	3	1	052077	0840	01	2430	STROMBIDIUM TYPICUM	248
DKCC	3	1	052077	0840	01	5435	TIARINA FUCUS	28
DKCC	3	1	052077	0840	01	5440	TIARINA FUSUS	336
DKCC	3	1	052077	0840	01	2565	TONTONIA GRACILLIMA	76
DKCD	3	1	052077	0840	22	1115	DADAYIELLA GANYMEDES	4
DKCD	3	1	052077	0840	22	5175	EUPLOTES SEXCOSTATUS	8
DKCD	3	1	052077	0840	22	2235	LOHMANIELLA OVIFORMIS	40
DKCD	3	1	052077	0840	22	1300	PROPLECTELLA SUBCAUDATA	4

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BKCD	3	1	052077	0840	22	1345	RHABDONELLOPSIS TRITON	4
BKCD	3	1	052077	0840	22	4370	SPHAEROZOOM PUNCTATA	8
BKCD	3	1	052077	0840	22	2400	STROMBIDIUM CALKINSI	52
BKCD	3	1	052077	0840	22	2405	STROMBIDIUM CONICUM	116
BKCD	3	1	052077	0840	22	2415	STROMBIDIUM OVALE	20
BKCD	3	1	052077	0840	22	2420	STROMBIDIUM STROBILUS	4
BKCD	3	1	052077	0840	22	2425	STROMBIDIUM SULCATUM	116
BKCD	3	1	052077	0840	22	2430	STROMBIDIUM TYPICUM	52
BKCD	3	1	052077	0840	22	5440	TIARINA FUSUS	16
BKCD	3	1	052077	0840	22	2565	TONIUNIA GRACILLIMA	8
BJEJ	1	2	051977	0800	01	1185	EUTINTINNUS LASUS-UNDAE	4
BJEJ	1	2	051977	0800	01	2235	LUHMANIELLA OVIFORMIS	12
BJEJ	1	2	051977	0800	01	1385	STENOSEMELLA VENTRICOSA	4
BJEJ	1	2	051977	0800	01	2400	STROMBIDIUM CALKINSI	40
BJEJ	1	2	051977	0800	01	2405	STROMBIDIUM CONICUM	80
BJEJ	1	2	051977	0800	01	2415	STROMBIDIUM OVALE	16
BJEJ	1	2	051977	0800	01	2420	STROMBIDIUM STROBILUS	100
BJEJ	1	2	051977	0800	01	2425	STROMBIDIUM SULCATUM	88
BJEJ	1	2	051977	0800	01	2430	STROMBIDIUM TYPICUM	220
BJEJ	1	2	051977	0800	01	5440	TIARINA FUSUS	16
BJEJ	1	2	051977	0800	01	5445	TIARINA GIGANTEA	4
BJEJ	1	2	051977	0800	01	1450	TINTINNIDIUM INCERTUM	8
BJEJ	1	2	051977	0800	01	1455	TINTINNOPSIS ACUMINATA	16
BJEJ	1	2	051977	0800	01	1515	TINTINNOPSIS LUBIANCUI	20
BJEJ	1	2	051977	0800	01	2565	TONIUNIA GRACILLIMA	140
BJEK	1	2	051977	0800	04	3055	HOLIVINA STRIATULA	4
BJEK	1	2	051977	0800	04	5175	EUPLOIES SEXCOSTATUS	8
BJEK	1	2	051977	0800	04	2235	LUHMANIELLA OVIFORMIS	12
BJEK	1	2	051977	0800	04	1385	STENOSEMELLA VENTRICOSA	12
BJEK	1	2	051977	0800	04	2400	STROMBIDIUM CALKINSI	44
BJEK	1	2	051977	0800	04	2405	STROMBIDIUM CONICUM	116
BJEK	1	2	051977	0800	04	2410	STROMBIDIUM CORNUCOPIAE	8



SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJEK	1	2	051977	0800	04	2420	STROMBIDIUM STROBILUS	104
BJEK	1	2	051977	0800	04	2425	STROMBIDIUM SULCATUM	132
BJEK	1	2	051977	0800	04	2430	STROMBIDIUM TYPICUM	332
BJEK	1	2	051977	0800	04	5440	TIARINA FUSUS	4
BJEK	1	2	051977	0800	04	5445	TIARINA GIGANTEA	12
BJEK	1	2	051977	0800	04	1450	TINTINNIDIUM INCERTUM	32
BJEK	1	2	051977	0800	04	1455	TINTINNOPSIS ACUMINATA	12
BJEK	1	2	051977	0800	04	1515	TINTINNOPSIS LOBIANCOI	16
BJEK	1	2	051977	0800	04	2565	TONTONIA GRACILLIMA	104
BJGL	2	2	051977	1150	01	1045	AMPHORIDES QUADRILINEATA	12
BJGL	2	2	051977	1150	01	5175	EUPLOTES SEXCOSTATUS	16
BJGL	2	2	051977	1150	01	2235	LOHMANIELLA OVIFORMIS	36
BJGL	2	2	051977	1150	01	5245	MESODINIUM RUBRUM	24
BJGL	2	2	051977	1150	01	1380	STEENSTRUPIELLA GRACILIS	4
BJGL	2	2	051977	1150	01	2400	STROMBIDIUM CALKINSI	112
BJGL	2	2	051977	1150	01	2405	STROMBIDIUM CONICUM	152
BJGL	2	2	051977	1150	01	2415	STROMBIDIUM OVALE	20
BJGL	2	2	051977	1150	01	2420	STROMBIDIUM STROBILUS	236
BJGL	2	2	051977	1150	01	2425	STROMBIDIUM SULCATUM	356
BJGL	2	2	051977	1150	01	2430	STROMBIDIUM TYPICUM	416
BJGL	2	2	051977	1150	01	5440	TIARINA FUSUS	24
BJGL	2	2	051977	1150	01	5445	TIARINA GIGANTEA	12
BJGL	2	2	051977	1150	01	2565	TONTONIA GRACILLIMA	52
BJGM	2	2	051977	1150	12	1045	AMPHORIDES QUADRILINEATA	48
BJGM	2	2	051977	1150	12	2235	LOHMANIELLA OVIFORMIS	80
BJGM	2	2	051977	1150	12	5245	MESODINIUM RUBRUM	4
BJGM	2	2	051977	1150	12	2395	STROMBIDIUM ACUMINATUM	4
BJGM	2	2	051977	1150	12	2400	STROMBIDIUM CALKINSI	164
BJGM	2	2	051977	1150	12	2405	STROMBIDIUM CONICUM	148
BJGM	2	2	051977	1150	12	2415	STROMBIDIUM OVALE	80
BJGM	2	2	051977	1150	12	2420	STROMBIDIUM STROBILUS	212
BJGM	2	2	051977	1150	12	2425	STROMBIDIUM SULCATUM	812

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJGM	2	2	051977	1150	12	2430	STROMBIDIUM TYPICUM	336
BJGM	2	2	051977	1150	12	5440	TIARINA FUSUS	52
BJGM	2	2	051977	1150	12	5445	TIARINA GIGANTEA	8
BJGM	2	2	051977	1150	12	2565	TONTONIA GRACILLIMA	112
BJGM	2	2	051977	1150	12	1585	UNDELLA HYALINA	4
BJ10	3	2	051877	1755	01	1115	DADAYIELLA GANYMEDES	4
BJ10	3	2	051877	1755	01	5175	EUPLOTES SEXCOSTATUS	40
BJ10	3	2	051877	1755	01	2235	LOHMANIELLA OVIFORMIS	80
BJ10	3	2	051877	1755	01	5245	MESODINIUM RUBRUM	16
BJ10	3	2	051877	1755	01	2400	STROMBIDIUM CALKINSI	116
BJ10	3	2	051877	1755	01	2405	STROMBIDIUM CONICUM	100
BJ10	3	2	051877	1755	01	2415	STROMBIDIUM OVALE	44
BJ10	3	2	051877	1755	01	2420	STROMBIDIUM STROBILUS	96
BJ10	3	2	051877	1755	01	2425	STROMBIDIUM SULCATUM	1308
BJ10	3	2	051877	1755	01	2430	STROMBIDIUM TYPICUM	172
BJ10	3	2	051877	1755	01	5440	TIARINA FUSUS	8
BJ10	3	2	051877	1755	01	2565	TONTONIA GRACILLIMA	52
BJ1P	3	2	051877	1755	14	1090	CODONELLOPSIS AMERICANA	4
BJ1P	3	2	051877	1755	14	1115	DADAYIELLA GANYMEDES	8
BJ1P	3	2	051877	1755	14	5175	EUPLOTES SEXCOSTATUS	8
BJ1P	3	2	051877	1755	14	2235	LOHMANIELLA OVIFORMIS	28
BJ1P	3	2	051877	1755	14	5245	MESODINIUM RUBRUM	4
BJ1P	3	2	051877	1755	14	2395	STROMBIDIUM ACUMINATUM	4
BJ1P	3	2	051877	1755	14	2400	STROMBIDIUM CALKINSI	76
BJ1P	3	2	051877	1755	14	2405	STROMBIDIUM CONICUM	148
BJ1P	3	2	051877	1755	14	2415	STROMBIDIUM OVALE	92
BJ1P	3	2	051877	1755	14	2420	STROMBIDIUM STROBILUS	60
BJ1P	3	2	051877	1755	14	2425	STROMBIDIUM SULCATUM	408
BJ1P	3	2	051877	1755	14	2430	STROMBIDIUM TYPICUM	52
BJ1P	3	2	051877	1755	14	5440	TIARINA FUSUS	88
BJ1P	3	2	051877	1755	14	2565	TONTONIA GRACILLIMA	4
BJ1P	3	2	051877	1755	14	1585	UNDELLA HYALINA	12

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJLR	1	3	051777	1600	01	3055	BOLIVINA STRIATULA	4
BJLR	1	3	051777	1600	01	5175	EUPLOTES SEXCOSTATUS	44
BJLR	1	3	051777	1600	01	5245	MESODINIUM RUBRUM	456
BJLR	1	3	051777	1600	01	2400	STROMBIDIUM CALKINSI	40
BJLR	1	3	051777	1600	01	2405	STROMBIDIUM CONICUM	56
BJLR	1	3	051777	1600	01	2415	STROMBIDIUM OVALE	44
BJLR	1	3	051777	1600	01	2420	STROMBIDIUM STROBILUS	60
BJLR	1	3	051777	1600	01	2425	STROMBIDIUM SULCATUM	428
BJLR	1	3	051777	1600	01	2430	STROMBIDIUM TYPICUM	84
BJLR	1	3	051777	1600	01	5445	TIARINA GIGANTEA	4
BJLR	1	3	051777	1600	01	1455	TINTINNOPSIS ACUMINATA	8
BJLR	1	3	051777	1600	01	2565	TUNTONIA GRACILLIMA	116
BJLS	1	3	051777	1600	08	3055	BOLIVINA STRIATULA	8
BJLS	1	3	051777	1600	08	5175	EUPLOTES SEXCOSTATUS	12
BJLS	1	3	051777	1600	08	2235	LUHMANIELLA OVIFORMIS	32
BJLS	1	3	051777	1600	08	5245	MESODINIUM RUBRUM	216
BJLS	1	3	051777	1600	08	2395	STROMBIDIUM ACUMINATUM	4
BJLS	1	3	051777	1600	08	2400	STROMBIDIUM CALKINSI	120
BJLS	1	3	051777	1600	08	2405	STROMBIDIUM CONICUM	84
BJLS	1	3	051777	1600	08	2415	STROMBIDIUM OVALE	56
BJLS	1	3	051777	1600	08	2420	STROMBIDIUM STROBILUS	16
BJLS	1	3	051777	1600	08	2425	STROMBIDIUM SULCATUM	296
BJLS	1	3	051777	1600	08	2430	STROMBIDIUM TYPICUM	108
BJLS	1	3	051777	1600	08	1455	TINTINNOPSIS ACUMINATA	16
BJLS	1	3	051777	1600	08	2565	TUNTONIA GRACILLIMA	68
BJLS	1	3	051777	1600	08	1585	UNDELLA HYALINA	4
BJNQ	2	3	051877	0800	01	1045	AMPHORIDES QUADRILINEATA	8
BJNQ	2	3	051877	0800	01	3055	BOLIVINA STRIATULA	8
BJNQ	2	3	051877	0800	01	5155	EPHELUTA GEMINARIA	4
BJNQ	2	3	051877	0800	01	5175	EUPLOTES SEXCOSTATUS	16
BJNQ	2	3	051877	0800	01	1185	EUTINTINNUS LASUS-UNDAE	16

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJNG	2	3	051877	0800	01	2235	LOHMANIELLA OVIFORMIS	36
BJNG	2	3	051877	0800	01	1385	STENOSEMELLA VENTRICOSA	4
BJNG	2	3	051877	0800	01	2400	STROMBIDIUM CALKINSI	100
BJNG	2	3	051877	0800	01	2405	STROMBIDIUM CONICUM	92
BJNG	2	3	051877	0800	01	2415	STROMBIDIUM OVALE	32
BJNG	2	3	051877	0800	01	2420	STROMBIDIUM STROBILUS	236
BJNG	2	3	051877	0800	01	2425	STROMBIDIUM SULCATUM	472
BJNG	2	3	051877	0800	01	2430	STROMBIDIUM TYPICUM	284
BJNG	2	3	051877	0800	01	5440	TIARINA FUSUS	12
BJNG	2	3	051877	0800	01	2565	TONTONIA GRACILLIMA	36
BJNG	2	3	051877	0800	01	1585	UNDELLA HYALINA	4
BJNR	2	3	051877	0800	10	3055	BOLIVINA STRIATULA	4
BJNR	2	3	051877	0800	10	1085	CLIMACOCYLIS SCALAROIDES	4
BJNR	2	3	051877	0800	10	1115	DADAYIELLA GANYMEDES	12
BJNR	2	3	051877	0800	10	1120	DADAYIELLA JORGENSENI	4
BJNR	2	3	051877	0800	10	5155	EPHELUTA GEMINARIA	8
BJNR	2	3	051877	0800	10	5175	EUPLOTES SEXCOSTATUS	36
BJNR	2	3	051877	0800	10	2235	LOHMANIELLA OVIFORMIS	20
BJNR	2	3	051877	0800	10	2400	STROMBIDIUM CALKINSI	100
BJNR	2	3	051877	0800	10	2405	STROMBIDIUM CONICUM	88
BJNR	2	3	051877	0800	10	2415	STROMBIDIUM OVALE	196
BJNR	2	3	051877	0800	10	2420	STROMBIDIUM STROBILUS	68
BJNR	2	3	051877	0800	10	2425	STROMBIDIUM SULCATUM	76
BJNR	2	3	051877	0800	10	2430	STROMBIDIUM TYPICUM	176
BJNR	2	3	051877	0800	10	5440	TIARINA FUSUS	81
BJNR	2	3	051877	0800	10	1470	TINTINNOPSIS COMPRESSA	12
BJNR	2	3	051877	0800	10	2565	TONTONIA GRACILLIMA	36
BSUA	2	3	051877	0800	10	1115	DADAYIELLA GANYMEDES	4
BSUA	2	3	051877	0800	10	5175	EUPLOTES SEXCOSTATUS	24
BSUA	2	3	051877	0800	10	1185	EUTINTINNUS LASUS-UNDAE	8
BSUA	2	3	051877	0800	10	2235	LOHMANIELLA OVIFORMIS	16
BSUA	2	3	051877	0800	10	2400	STROMBIDIUM CALKINSI	52

SACD	S	1	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUA	2	3	051877	0800	10	2405	STROMBIDIUM CONICUM	72
BSUA	2	3	051877	0800	10	2415	STROMBIDIUM OVALE	64
BSUA	2	3	051877	0800	10	2420	STROMBIDIUM STROBILUS	16
BSUA	2	3	051877	0800	10	2425	STROMBIDIUM SULCATUM	308
BSUA	2	3	051877	0800	10	2430	STROMBIDIUM TYPICUM	72
BSUA	2	3	051877	0800	10	5440	TIARINA FUSUS	40
BSUA	2	3	051877	0800	10	1470	LINTINNOPSIS COMPRESSA	4
BSUA	2	3	051877	0800	10	2565	TONYONIA GRACILLIMA	12
BSUA	2	3	051877	0800	10	1585	UNDELLA HYALINA	8
BSUB	2	3	051877	0800	10	3055	BOLIVINA STRIATULA	4
BSUB	2	3	051877	0800	10	1115	DADAYIELLA GANYMEDES	4
BSUB	2	3	051877	0800	10	5155	EPHELOTA GEMINARIA	36
BSUB	2	3	051877	0800	10	5175	EUPLOTES SEXCOSTATUS	36
BSUB	2	3	051877	0800	10	2235	LOHMANIELLA OVIFORMIS	16
BSUB	2	3	051877	0800	10	2400	STROMBIDIUM CALKINSI	96
BSUB	2	3	051877	0800	10	2405	STROMBIDIUM CONICUM	100
BSUB	2	3	051877	0800	10	2415	STROMBIDIUM OVALE	240
BSUB	2	3	051877	0800	10	2420	STROMBIDIUM STROBILUS	64
BSUB	2	3	051877	0800	10	2425	STROMBIDIUM SULCATUM	412
BSUB	2	3	051877	0800	10	2430	STROMBIDIUM TYPICUM	148
BSUB	2	3	051877	0800	10	5440	TIARINA FUSUS	80
BSUB	2	3	051877	0800	10	1470	LINTINNOPSIS COMPRESSA	4
BSUB	2	3	051877	0800	10	2565	TONYONIA GRACILLIMA	72
BJPQ	3	3	051877	1140	01	1085	CLIMACOCYLIS SCALAROIDES	16
BJPQ	3	3	051877	1140	01	5155	EPHELOTA GEMINARIA	12
BJPQ	3	3	051877	1140	01	5175	EUPLOTES SEXCOSTATUS	108
BJPQ	3	3	051877	1140	01	2235	LOHMANIELLA OVIFORMIS	16
BJPQ	3	3	051877	1140	01	5245	MESODINIUM RUBRUM	4
BJPQ	3	3	051877	1140	01	1380	STEENSTRUPIELLA GRACILIS	8
BJPQ	3	3	051877	1140	01	2400	STROMBIDIUM CALKINSI	128
BJPQ	3	3	051877	1140	01	2405	STROMBIDIUM CONICUM	56
BJPQ	3	3	051877	1140	01	2415	STROMBIDIUM OVALE	76

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJPW	3	3	051877	1140	01	2420	STROMBIDIUM STROBILUS	84
BJPW	3	3	051877	1140	01	2425	STROMBIDIUM SULCATUM	748
BJPW	3	3	051877	1140	01	2430	STROMBIDIUM TYPICUM	208
BJPW	3	3	051877	1140	01	5440	FIARINA FUSUS	8
BJPW	3	3	051877	1140	01	1455	TINTINNOPSIS ACUMINATA	4
BJPW	3	3	051877	1140	01	1470	TINTINNOPSIS COMPRESSA	12
BJPW	3	3	051877	1140	01	2565	TONTONIA GRACILLIMA	36
BJPW	3	3	051877	1140	01	1585	UNDELLA HYALINA	4
BJPR	3	3	051877	1140	12	3055	BOLIVINA STRIATULA	4
BJPR	3	3	051877	1140	12	5175	EUPLOTES SEXCOSTATUS	60
BJPR	3	3	051877	1140	12	2235	LOHMANIELLA OVIFORMIS	12
BJPR	3	3	051877	1140	12	2400	STROMBIDIUM CALKINSI	44
BJPR	3	3	051877	1140	12	2405	STROMBIDIUM CONICUM	100
BJPR	3	3	051877	1140	12	2415	STROMBIDIUM OVALE	164
BJPR	3	3	051877	1140	12	2420	STROMBIDIUM STROBILUS	12
BJPR	3	3	051877	1140	12	2425	STROMBIDIUM SULCATUM	404
BJPR	3	3	051877	1140	12	2430	STROMBIDIUM TYPICUM	112
BJPR	3	3	051877	1140	12	5440	FIARINA FUSUS	8
BJPR	3	3	051877	1140	12	2565	TONTONIA GRACILLIMA	40
BJRW	1	4	051777	0920	01	1045	AMPHORIDES QUADRILINEATA	4
BJRW	1	4	051777	0920	01	3055	BOLIVINA STRIATULA	12
BJRW	1	4	051777	0920	01	5155	EPHELOTA GEMINARIA	8
BJRW	1	4	051777	0920	01	5175	EUPLOTES SEXCOSTATUS	24
BJRW	1	4	051777	0920	01	2235	LOHMANIELLA OVIFORMIS	36
BJRW	1	4	051777	0920	01	5245	MESODINIUM RUBRUM	12
BJRW	1	4	051777	0920	01	2400	STROMBIDIUM CALKINSI	56
BJRW	1	4	051777	0920	01	2405	STROMBIDIUM CONICUM	96
BJRW	1	4	051777	0920	01	2415	STROMBIDIUM OVALE	244
BJRW	1	4	051777	0920	01	2420	STROMBIDIUM STROBILUS	88
BJRW	1	4	051777	0920	01	2425	STROMBIDIUM SULCATUM	692
BJRW	1	4	051777	0920	01	2430	STROMBIDIUM TYPICUM	160
BJRW	1	4	051777	0920	01	5440	FIARINA FUSUS	12

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BJRW	1	4	051777	0920	01	1455	TINTINNOPSIS ACUMINATA	4
BJRW	1	4	051777	0920	01	2565	TONYONIA GRACILLIMA	156
BJRX	1	4	051777	0920	11	3055	HOLIVINA STRIATULA	12
BJRX	1	4	051777	0920	11	5175	EUPLOTES SEXCOSTATUS	36
BJRX	1	4	051777	0920	11	1185	EUTINIINUS LASUS-UNDAE	4
BJRX	1	4	051777	0920	11	2235	LOHMANIELLA OVIFORMIS	16
BJRX	1	4	051777	0920	11	5245	MESODINIUM RUBRUM	4
BJRX	1	4	051777	0920	11	2400	STROMBIDIUM CALKINSI	64
BJRX	1	4	051777	0920	11	2405	STROMBIDIUM CONICUM	24
BJRX	1	4	051777	0920	11	2415	STROMBIDIUM OVALE	40
BJRX	1	4	051777	0920	11	2420	STROMBIDIUM STROBILUS	60
BJRX	1	4	051777	0920	11	2425	STROMBIDIUM SULCATUM	292
BJRX	1	4	051777	0920	11	2430	STROMBIDIUM TYPICUM	68
BJRX	1	4	051777	0920	11	1455	TINTINNOPSIS ACUMINATA	4
BJRX	1	4	051777	0920	11	2565	TONYONIA GRACILLIMA	104
BSUC	1	4	051777	0920	11	3055	HOLIVINA STRIATULA	24
BSUC	1	4	051777	0920	11	5175	EUPLOTES SEXCOSTATUS	20
BSUC	1	4	051777	0920	11	2235	LOHMANIELLA OVIFORMIS	12
BSUC	1	4	051777	0920	11	5245	MESODINIUM RUBRUM	4
BSUC	1	4	051777	0920	11	2400	STROMBIDIUM CALKINSI	40
BSUC	1	4	051777	0920	11	2405	STROMBIDIUM CONICUM	44
BSUC	1	4	051777	0920	11	2415	STROMBIDIUM OVALE	16
BSUC	1	4	051777	0920	11	2420	STROMBIDIUM STROBILUS	52
BSUC	1	4	051777	0920	11	2425	STROMBIDIUM SULCATUM	304
BSUC	1	4	051777	0920	11	2430	STROMBIDIUM TYPICUM	100
BSUC	1	4	051777	0920	11	5440	TIARINA FUSUS	8
BSUC	1	4	051777	0920	11	2565	TONYONIA GRACILLIMA	20
BSUD	1	4	051777	0920	11	3055	HOLIVINA STRIATULA	28
BSUD	1	4	051777	0920	11	5155	EPHELOTA GEMINARIA	8
BSUD	1	4	051777	0920	11	5175	EUPLOTES SEXCOSTATUS	12
BSUD	1	4	051777	0920	11	2235	LOHMANIELLA OVIFORMIS	8

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUD	1	4	051777	0920	11	5245	MESODINIUM RUBRUM	20
BSUD	1	4	051777	0920	11	2400	STROMBIDIUM CALKINSI	28
BSUD	1	4	051777	0920	11	2405	STROMBIDIUM CONICUM	48
BSUD	1	4	051777	0920	11	2415	STROMBIDIUM OVALE	80
BSUD	1	4	051777	0920	11	2420	STROMBIDIUM STROBILUS	52
BSUD	1	4	051777	0920	11	2425	STROMBIDIUM SULCATUM	332
BSUD	1	4	051777	0920	11	2430	STROMBIDIUM TYPICUM	112
BSUD	1	4	051777	0920	11	5440	TIARINA FUSUS	16
BSUD	1	4	051777	0920	11	1455	TINTINNOPSIS ACUMINATA	4
BSUD	1	4	051777	0920	11	2565	TONTONIA GRACILLIMA	84
BJTU	2	4	051677	1720	01	1085	CLIMACOCYLIS SCALAROIDES	4
BJTU	2	4	051677	1720	01	5175	EUPLOTES SEXCOSTATUS	4
BJTU	2	4	051677	1720	01	2235	LOHMANIELLA OVIFORMIS	12
BJTU	2	4	051677	1720	01	5245	MESODINIUM RUBRUM	12
BJTU	2	4	051677	1720	01	4375	SPONGOSPHAERA STREPACANTHA	4
BJTU	2	4	051677	1720	01	2400	STROMBIDIUM CALKINSI	60
BJTU	2	4	051677	1720	01	2405	STROMBIDIUM CONICUM	56
BJTU	2	4	051677	1720	01	2415	STROMBIDIUM OVALE	60
BJTU	2	4	051677	1720	01	2420	STROMBIDIUM STROBILUS	96
BJTU	2	4	051677	1720	01	2425	STROMBIDIUM SULCATUM	324
BJTU	2	4	051677	1720	01	2430	STROMBIDIUM TYPICUM	56
BJTU	2	4	051677	1720	01	5435	TIARINA FUCUS	20
BJTU	2	4	051677	1720	01	2565	TONTONIA GRACILLIMA	44
BJTV	2	4	051677	1720	29	5175	EUPLOTES SEXCOSTATUS	4
BJTV	2	4	051677	1720	29	3210	GLOBIGERINA PACHYDERMA	4
BJTV	2	4	051677	1720	29	2235	LOHMANIELLA OVIFORMIS	24
BJTV	2	4	051677	1720	29	1305	PROTURHABDONELLA CURTA	4
BJTV	2	4	051677	1720	29	1385	STENOSEMELLA VENTRICOSA	8
BJTV	2	4	051677	1720	29	2400	STROMBIDIUM CALKINSI	40
BJTV	2	4	051677	1720	29	2405	STROMBIDIUM CONICUM	52
BJTV	2	4	051677	1720	29	2415	STROMBIDIUM OVALE	80
BJTV	2	4	051677	1720	29	2420	STROMBIDIUM STROBILUS	8



SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJIV	2	4	051677	1720	29	2425	STROMBIDIUM SULCATUM	160
BJIV	2	4	051677	1720	29	2430	STROMBIDIUM TYPICUM	28
BJIV	2	4	051677	1720	29	5440	TIARINA FUSUS	16
BSUE	2	4	051677	1720	29	5175	EUPLOTES SEXCOSTATUS	8
BSUE	2	4	051677	1720	29	2235	LOHMANIELLA OVIFORMIS	8
BSUE	2	4	051677	1720	29	1305	PROTORHABDONELLA CURTA	4
BSUE	2	4	051677	1720	29	2400	STROMBIDIUM CALKINSI	88
BSUE	2	4	051677	1720	29	2405	STROMBIDIUM CONICUM	80
BSUE	2	4	051677	1720	29	2415	STROMBIDIUM OVALE	84
BSUE	2	4	051677	1720	29	2425	STROMBIDIUM SULCATUM	212
BSUE	2	4	051677	1720	29	2430	STROMBIDIUM TYPICUM	64
BSUE	2	4	051677	1720	29	5440	TIARINA FUSUS	16
BSUE	2	4	051677	1720	29	1560	TINTINNUS TUBULOSUS	8
BSUF	2	4	051677	1720	29	5155	EPELUTA GEMINARIA	4
BSUF	2	4	051677	1720	29	5175	EUPLOTES SEXCOSTATUS	44
BSUF	2	4	051677	1720	29	2235	LOHMANIELLA OVIFORMIS	20
BSUF	2	4	051677	1720	29	1355	SALPINGACANTHA UNDATA	4
BSUF	2	4	051677	1720	29	1385	STENOSEMELLA VENTRICOSA	4
BSUF	2	4	051677	1720	29	2400	STROMBIDIUM CALKINSI	36
BSUF	2	4	051677	1720	29	2405	STROMBIDIUM CONICUM	68
BSUF	2	4	051677	1720	29	2415	STROMBIDIUM OVALE	132
BSUF	2	4	051677	1720	29	2420	STROMBIDIUM STROBILUS	36
BSUF	2	4	051677	1720	29	2425	STROMBIDIUM SULCATUM	220
BSUF	2	4	051677	1720	29	2430	STROMBIDIUM TYPICUM	20
BSUF	2	4	051677	1720	29	5440	TIARINA FUSUS	12
BSUF	2	4	051677	1720	29	1560	TINTINNUS TUBULOSUS	4
BJUU	3	4	051677	1030	01	1115	DADAYIELLA GANYMEDES	8
BJUU	3	4	051677	1030	01	5170	EUPLOTES MINUTA	52
BJUU	3	4	051677	1030	01	5175	EUPLOTES SEXCOSTATUS	20
BJUU	3	4	051677	1030	01	2235	LOHMANIELLA OVIFORMIS	8
BJUU	3	4	051677	1030	01	2400	STROMBIDIUM CALKINSI	36

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BJUJ	3	4	051677	1030	01	2405	STROMBIDIUM CONICUM	64
BJUJ	3	4	051677	1030	01	2415	STROMBIDIUM OVALE	140
BJUJ	3	4	051677	1030	01	2420	STROMBIDIUM STROBILUS	28
BJUJ	3	4	051677	1030	01	2425	STROMBIDIUM SULCATUM	220
BJUJ	3	4	051677	1030	01	2430	STROMBIDIUM TYPICUM	48
BJUJ	3	4	051677	1030	01	5440	TIARINA FUSUS	8
BJUJ	3	4	051677	1030	01	1560	TINTINNUS TUBULOSUS	4
BJUJ	3	4	051677	1030	01	2565	TUNTONIA GRACILLIMA	48
BJUJ	3	4	051677	1030	22	5170	EUPLOTES MINUTA	32
BJUJ	3	4	051677	1030	22	5175	EUPLOTES SEXCOSTATUS	40
BJUJ	3	4	051677	1030	22	1185	EUTINTINNUS LASUS-UNDAE	4
BJUJ	3	4	051677	1030	22	2235	LOHMANIELLA OVIFORMIS	4
BJUJ	3	4	051677	1030	22	2400	STROMBIDIUM CALKINSI	32
BJUJ	3	4	051677	1030	22	2405	STROMBIDIUM CONICUM	104
BJUJ	3	4	051677	1030	22	2415	STROMBIDIUM OVALE	128
BJUJ	3	4	051677	1030	22	2420	STROMBIDIUM STROBILUS	20
BJUJ	3	4	051677	1030	22	2425	STROMBIDIUM SULCATUM	136
BJUJ	3	4	051677	1030	22	2430	STROMBIDIUM TYPICUM	40
BJUJ	3	4	051677	1030	22	5440	TIARINA FUSUS	4
BJUJ	3	4	051677	1030	22	2565	TUNTONIA GRACILLIMA	12
BSUG	3	4	051677	1030	22	5170	EUPLOTES MINUTA	52
BSUG	3	4	051677	1030	22	5175	EUPLOTES SEXCOSTATUS	44
BSUG	3	4	051677	1030	22	2235	LOHMANIELLA OVIFORMIS	4
BSUG	3	4	051677	1030	22	2400	STROMBIDIUM CALKINSI	24
BSUG	3	4	051677	1030	22	2405	STROMBIDIUM CONICUM	128
BSUG	3	4	051677	1030	22	2415	STROMBIDIUM OVALE	72
BSUG	3	4	051677	1030	22	2420	STROMBIDIUM STROBILUS	28
BSUG	3	4	051677	1030	22	2425	STROMBIDIUM SULCATUM	200
BSUG	3	4	051677	1030	22	2430	STROMBIDIUM TYPICUM	56
BSUG	3	4	051677	1030	22	5440	TIARINA FUSUS	24
BSUG	3	4	051677	1030	22	1560	TINTINNUS TUBULOSUS	4
BSUG	3	4	051677	1030	22	2565	TUNTONIA GRACILLIMA	16

SALD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUG	3	4	051677	1030	22	1585	UNDELLA HYALINA	4
BSUH	3	4	051677	1030	22	1115	DADAYIELLA GANYMEDES	4
BSUH	3	4	051677	1030	22	5170	EUPLOTES MINUTA	32
BSUH	3	4	051677	1030	22	5175	EUPLOTES SEXCOSTATUS	40
BSUH	3	4	051677	1030	22	1185	EUTINTINNUS LASUS-UNDAE	20
BSUH	3	4	051677	1030	22	2235	LOHMANIELLA OVIFORMIS	8
BSUH	3	4	051677	1030	22	4375	SPONGUSPHAERA STREPACANTHA	4
BSUH	3	4	051677	1030	22	2400	STROMBIDIUM CALKINSI	28
BSUH	3	4	051677	1030	22	2405	STROMBIDIUM CUNICUM	124
BSUH	3	4	051677	1030	22	2415	STROMBIDIUM OVALE	128
BSUH	3	4	051677	1030	22	2420	STROMBIDIUM STROBILUS	32
BSUH	3	4	051677	1030	22	2425	STROMBIDIUM SULCATUM	168
BSUH	3	4	051677	1030	22	2430	STROMBIDIUM TYPICUM	20
BSUH	3	4	051677	1030	22	5440	TIARINA FUSUS	8
BSUH	3	4	051677	1030	22	2565	TONIUNIA GRACILLIMA	12
BLES	1	2	070677	0900	01	5170	EUPLOTES MINUTA	32
BLES	1	2	070677	0900	01	5175	EUPLOTES SEXCOSTATUS	92
BLES	1	2	070677	0900	01	1185	EUTINTINNUS LASUS-UNDAE	4
BLES	1	2	070677	0900	01	2400	STROMBIDIUM CALKINSI	8
BLES	1	2	070677	0900	01	2405	STROMBIDIUM CUNICUM	56
BLES	1	2	070677	0900	01	2415	STROMBIDIUM OVALE	32
BLES	1	2	070677	0900	01	2420	STROMBIDIUM STROBILUS	44
BLES	1	2	070677	0900	01	2425	STROMBIDIUM SULCATUM	56
BLES	1	2	070677	0900	01	2430	STROMBIDIUM TYPICUM	40
BLES	1	2	070677	0900	01	1560	TINTINNUS TUBULOSUS	4
BLES	1	2	070677	0900	01	2565	TONIUNIA GRACILLIMA	4
BLET	1	2	070677	0900	10	1085	CLIMALUCYLIS SCALAROIDES	4
BLET	1	2	070677	0900	10	5170	EUPLOTES MINUTA	8
BLET	1	2	070677	0900	10	5175	EUPLOTES SEXCOSTATUS	28
BLET	1	2	070677	0900	10	1185	EUTINTINNUS LASUS-UNDAE	4
BLET	1	2	070677	0900	10	2400	STROMBIDIUM CALKINSI	28

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BLE1	1	2	07/06/77	0900	10	2405	STROMBIDIUM CONICUM	36
BLE1	1	2	07/06/77	0900	10	2415	STROMBIDIUM OVALE	36
BLE1	1	2	07/06/77	0900	10	2420	STROMBIDIUM STROBILUS	72
BLE1	1	2	07/06/77	0900	10	2425	STROMBIDIUM SULCATUM	152
BLE1	1	2	07/06/77	0900	10	2430	STROMBIDIUM TYPICUM	100
BLE1	1	2	07/06/77	0900	10	5435	TIARINA FUCUS	8
BLE1	1	2	07/06/77	0900	10	2565	TONTONIA GRACILLIMA	20
BLGK	2	2	07/06/77	1230	01	1185	EUTINTINNUS LASUS-UNDAE	32
BLGK	2	2	07/06/77	1230	01	2235	LOHMANIELLA OVIFORMIS	16
BLGK	2	2	07/06/77	1230	01	1505	PROTORHABDONELLA CURTA	4
BLGK	2	2	07/06/77	1230	01	2400	STROMBIDIUM CALKINSI	48
BLGK	2	2	07/06/77	1230	01	2405	STROMBIDIUM CONICUM	92
BLGK	2	2	07/06/77	1230	01	2410	STROMBIDIUM CORNUCOPIAE	4
BLGK	2	2	07/06/77	1230	01	2415	STROMBIDIUM OVALE	48
BLGK	2	2	07/06/77	1230	01	2420	STROMBIDIUM STROBILUS	40
BLGK	2	2	07/06/77	1230	01	2425	STROMBIDIUM SULCATUM	116
BLGK	2	2	07/06/77	1230	01	2430	STROMBIDIUM TYPICUM	28
BLGK	2	2	07/06/77	1230	01	5435	TIARINA FUCUS	4
BLGK	2	2	07/06/77	1230	01	5445	TIARINA GIGANTEA	4
BLGK	2	2	07/06/77	1230	01	1560	TINTINNUS TUBULOSUS	20
BLGK	2	2	07/06/77	1230	01	2565	TONTONIA GRACILLIMA	4
BLGK	2	2	07/06/77	1230	01	1590	XYSTONELLA TREFORTI	4
BLGL	2	2	07/06/77	1230	31	1085	CLIMACOCYLIS SCALAROIDES	8
BLGL	2	2	07/06/77	1230	31	1105	COXIELLA PELAGICA	4
BLGL	2	2	07/06/77	1230	31	1115	DADAYIELLA GANYMEDES	4
BLGL	2	2	07/06/77	1230	31	1185	EUTINTINNUS LASUS-UNDAE	8
BLGL	2	2	07/06/77	1230	31	2235	LOHMANIELLA OVIFORMIS	12
BLGL	2	2	07/06/77	1230	31	4375	SPONGUSPHAERA STREPACANTHA	4
BLGL	2	2	07/06/77	1230	31	2400	STROMBIDIUM CALKINSI	20
BLGL	2	2	07/06/77	1230	31	2405	STROMBIDIUM CONICUM	28
BLGL	2	2	07/06/77	1230	31	2415	STROMBIDIUM OVALE	76
BLGL	2	2	07/06/77	1230	31	2420	STROMBIDIUM STROBILUS	164

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BLGL	2	2	070677	1230	31	2425	STROMBIDIUM SULCATUM	140
BLGL	2	2	070677	1230	31	2430	STROMBIDIUM TYPICUM	68
BLGL	2	2	070677	1230	31	2565	TONYONIA GRACILLIMA	8
BLID	3	2	070677	1830	01	1045	AMPHORIDES QUADRILINEATA	16
BLID	3	2	070677	1830	01	1185	EUTINTINUS LASUS-UNDAE	56
BLID	3	2	070677	1830	01	2235	LOHMANIELLA OVIFORMIS	4
BLID	3	2	070677	1830	01	2400	STROMBIDIUM CALKINSI	32
BLID	3	2	070677	1830	01	2405	STROMBIDIUM CONICUM	48
BLID	3	2	070677	1830	01	2415	STROMBIDIUM OVALE	36
BLID	3	2	070677	1830	01	2420	STROMBIDIUM STROBILUS	20
BLID	3	2	070677	1830	01	2425	STROMBIDIUM SULCATUM	96
BLID	3	2	070677	1830	01	2430	STROMBIDIUM TYPICUM	20
BLID	3	2	070677	1830	01	1560	TINTINUS TUBULOSUS	16
BLIE	3	2	070677	1830	26	1185	EUTINTINUS LASUS-UNDAE	8
BLIE	3	2	070677	1830	26	2235	LOHMANIELLA OVIFORMIS	4
BLIE	3	2	070677	1830	26	1305	PROTOKHABDONELLA CURTA	16
BLIE	3	2	070677	1830	26	1335	KHABDONELLA CONICA	8
BLIE	3	2	070677	1830	26	2400	STROMBIDIUM CALKINSI	56
BLIE	3	2	070677	1830	26	2405	STROMBIDIUM CONICUM	60
BLIE	3	2	070677	1830	26	2415	STROMBIDIUM OVALE	36
BLIE	3	2	070677	1830	26	2420	STROMBIDIUM STROBILUS	36
BLIE	3	2	070677	1830	26	2425	STROMBIDIUM SULCATUM	112
BLIE	3	2	070677	1830	26	2430	STROMBIDIUM TYPICUM	36
BLIE	3	2	070677	1830	26	5435	TIARINA FUCUS	4
BLIE	3	2	070677	1830	26	5440	TIARINA FUSUS	8
BMOP	1	2	080477	0930	01	1185	EUTINTINUS LASUS-UNDAE	4
BMOP	1	2	080477	0930	01	2235	LOHMANIELLA OVIFORMIS	12
BMOP	1	2	080477	0930	01	4370	SPHAEROZOUM PUNCTATA	4
BMOP	1	2	080477	0930	01	2400	STROMBIDIUM CALKINSI	12
BMOP	1	2	080477	0930	01	2405	STROMBIDIUM CONICUM	24
BMOP	1	2	080477	0930	01	2415	STROMBIDIUM OVALE	12

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BMQP	1	2	080477	0930	01	2420	STROMBIDIUM STROBILUS	24
BMQP	1	2	080477	0930	01	2425	STROMBIDIUM SULCATUM	32
BMQP	1	2	080477	0930	01	2430	STROMBIDIUM TYPICUM	56
BMQP	1	2	080477	0930	01	1555	TINTINNOPSIS TUBULOSA	4
BMQP	1	2	080477	0930	01	2565	TONTONIA GRACILLIMA	8
BMQQ	1	2	080477	0930	10	2235	LOHMANIELLA OVIFORMIS	12
BMQQ	1	2	080477	0930	10	2405	STROMBIDIUM CONICUM	32
BMQQ	1	2	080477	0930	10	2415	STROMBIDIUM OVALE	16
BMQQ	1	2	080477	0930	10	2420	STROMBIDIUM STROBILUS	24
BMQQ	1	2	080477	0930	10	2425	STROMBIDIUM SULCATUM	40
BMQQ	1	2	080477	0930	10	2430	STROMBIDIUM TYPICUM	20
BMQQ	1	2	080477	0930	10	2565	TONTONIA GRACILLIMA	8
BSU1	1	2	080477	0930	10	1185	EUTINTINUS LASUS-UNDAE	4
BSU1	1	2	080477	0930	10	2235	LOHMANIELLA OVIFORMIS	8
BSU1	1	2	080477	0930	10	2400	STROMBIDIUM CALKINSI	16
BSU1	1	2	080477	0930	10	2405	STROMBIDIUM CONICUM	52
BSU1	1	2	080477	0930	10	2415	STROMBIDIUM OVALE	24
BSU1	1	2	080477	0930	10	2420	STROMBIDIUM STROBILUS	36
BSU1	1	2	080477	0930	10	2425	STROMBIDIUM SULCATUM	76
BSU1	1	2	080477	0930	10	2430	STROMBIDIUM TYPICUM	32
BSU1	1	2	080477	0930	10	5435	TIARINA FOCUS	8
BSU1	1	2	080477	0930	10	2565	TONTONIA GRACILLIMA	4
BSU1	1	2	080477	0930	10	5570	TRICUPHRYA COLUMBIAE	4
BSUJ	1	2	080477	0930	10	2235	LOHMANIELLA OVIFORMIS	8
BSUJ	1	2	080477	0930	10	2400	STROMBIDIUM CALKINSI	28
BSUJ	1	2	080477	0930	10	2405	STROMBIDIUM CONICUM	40
BSUJ	1	2	080477	0930	10	2415	STROMBIDIUM OVALE	36
BSUJ	1	2	080477	0930	10	2420	STROMBIDIUM STROBILUS	44
BSUJ	1	2	080477	0930	10	2425	STROMBIDIUM SULCATUM	88
BSUJ	1	2	080477	0930	10	2430	STROMBIDIUM TYPICUM	40
BSUJ	1	2	080477	0930	10	2565	TONTONIA GRACILLIMA	4

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NO PL
BMSH	2	2	080477	1245	01	3215	HASTIGERINA PELAGICA	4
BMSH	2	2	080477	1245	01	2235	LOHMANIELLA OVIFORMIS	4
BMSH	2	2	080477	1245	01	2400	STROMBIDIUM CALKINSI	8
BMSH	2	2	080477	1245	01	2405	STROMBIDIUM CONICUM	232
BMSH	2	2	080477	1245	01	2415	STROMBIDIUM OVALE	12
BMSH	2	2	080477	1245	01	2420	STROMBIDIUM STROBILUS	16
BMSH	2	2	080477	1245	01	2425	STROMBIDIUM SULCATUM	56
BMSH	2	2	080477	1245	01	2430	STROMBIDIUM TYPICUM	12
BMSH	2	2	080477	1245	01	1560	TINTINNUS TUBULOSUS	4
BMSI	2	2	080477	1245	36	4070	CALUCYLAS MONUMENTUM	4
BMSI	2	2	080477	1245	36	2235	LOHMANIELLA OVIFORMIS	8
BMSI	2	2	080477	1245	36	2400	STROMBIDIUM CALKINSI	28
BMSI	2	2	080477	1245	36	2405	STROMBIDIUM CONICUM	40
BMSI	2	2	080477	1245	36	2415	STROMBIDIUM OVALE	24
BMSI	2	2	080477	1245	36	2420	STROMBIDIUM STROBILUS	44
BMSI	2	2	080477	1245	36	2425	STROMBIDIUM SULCATUM	104
BMSI	2	2	080477	1245	36	2430	STROMBIDIUM TYPICUM	8
BSOK	2	2	080477	1245	36	2235	LOHMANIELLA OVIFORMIS	20
BSOK	2	2	080477	1245	36	2400	STROMBIDIUM CALKINSI	4
BSOK	2	2	080477	1245	36	2405	STROMBIDIUM CONICUM	48
BSOK	2	2	080477	1245	36	2415	STROMBIDIUM OVALE	36
BSOK	2	2	080477	1245	36	2420	STROMBIDIUM STROBILUS	56
BSOK	2	2	080477	1245	36	2425	STROMBIDIUM SULCATUM	96
BSOK	2	2	080477	1245	36	2430	STROMBIDIUM TYPICUM	8
BSOL	2	2	080477	1245	36	3215	HASTIGERINA PELAGICA	4
BSOL	2	2	080477	1245	36	2235	LOHMANIELLA OVIFORMIS	8
BSOL	2	2	080477	1245	36	1305	PROTURHABDONELLA CURTA	4
BSOL	2	2	080477	1245	36	2405	STROMBIDIUM CONICUM	48
BSOL	2	2	080477	1245	36	2415	STROMBIDIUM OVALE	52
BSOL	2	2	080477	1245	36	2420	STROMBIDIUM STROBILUS	44

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUL	2	2	080477	1245	36	2425	STROMBIDIUM SULCATUM	132
BSUL	2	2	080477	1245	36	2430	STROMBIDIUM TYPICUM	12
BSUL	2	2	080477	1245	36	5445	TIARINA GIGANTEA	4
BMUA	3	2	080477	1900	01	1185	EUTINTINUS LASUS-UNDAE	4
BMUA	3	2	080477	1900	01	2235	LOHMANIELLA OVIFORMIS	4
BMUA	3	2	080477	1900	01	1305	PROTORHABDONELLA CURTA	4
BMUA	3	2	080477	1900	01	1380	STEENSTRUPIELLA GRACILIS	8
BMUA	3	2	080477	1900	01	2400	STROMBIDIUM CALKINSI	28
BMUA	3	2	080477	1900	01	2405	STROMBIDIUM CONICUM	12
BMUA	3	2	080477	1900	01	2415	STROMBIDIUM OVALE	24
BMUA	3	2	080477	1900	01	2420	STROMBIDIUM STROBILUS	24
BMUA	3	2	080477	1900	01	2425	STROMBIDIUM SULCATUM	124
BMUA	3	2	080477	1900	01	2430	STROMBIDIUM TYPICUM	8
BMUB	3	2	080477	1900	35	2235	LOHMANIELLA OVIFORMIS	4
BMUB	3	2	080477	1900	35	2400	STROMBIDIUM CALKINSI	24
BMUB	3	2	080477	1900	35	2405	STROMBIDIUM CONICUM	48
BMUB	3	2	080477	1900	35	2415	STROMBIDIUM OVALE	20
BMUB	3	2	080477	1900	35	2420	STROMBIDIUM STROBILUS	32
BMUB	3	2	080477	1900	35	2425	STROMBIDIUM SULCATUM	104
BMUB	3	2	080477	1900	35	2430	STROMBIDIUM TYPICUM	12
BMUB	3	2	080477	1900	35	2565	TONTONIA GRACILLIMA	4
BSPU	3	2	080477	1900	35	4070	CALOCYLAS MONUMENTUM	4
BSPU	3	2	080477	1900	35	1305	PROTORHABDONELLA CURTA	4
BSPU	3	2	080477	1900	35	2400	STROMBIDIUM CALKINSI	12
BSPU	3	2	080477	1900	35	2405	STROMBIDIUM CONICUM	56
BSPU	3	2	080477	1900	35	2415	STROMBIDIUM OVALE	20
BSPU	3	2	080477	1900	35	2420	STROMBIDIUM STROBILUS	44
BSPU	3	2	080477	1900	35	2425	STROMBIDIUM SULCATUM	52
BSPU	3	2	080477	1900	35	2430	STROMBIDIUM TYPICUM	16
BSPU	3	2	080477	1900	35	2565	TONTONIA GRACILLIMA	4



SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
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BSPV	3	2	080477	1900	35	5170	EUPLOTES MINUTA	12
BSPV	3	2	080477	1900	35	3210	GLOBIGERINA PACHYDERMA	4
BSPV	3	2	080477	1900	35	2235	LOHMANIELLA OVIFORMIS	8
BSPV	3	2	080477	1900	35	1275	PARUNDILLA CONICA	4
BSPV	3	2	080477	1900	35	2400	STROMBIDIUM CALKINSI	20
BSPV	3	2	080477	1900	35	2405	STROMBIDIUM CONICUM	40
BSPV	3	2	080477	1900	35	2415	STROMBIDIUM OVALE	20
BSPV	3	2	080477	1900	35	2420	STROMBIDIUM STROBILUS	44
BSPV	3	2	080477	1900	35	2425	STROMBIDIUM SULCATUM	168
BSPV	3	2	080477	1900	35	2430	STROMBIDIUM TYPICUM	16
BSPV	3	2	080477	1900	35	2565	TONTONIA GRACILLINA	4
BUBK	1	1	091177	1530	01	2235	LOHMANIELLA OVIFORMIS	52
BUBK	1	1	091177	1530	01	5245	MESODINIUM RUBRUM	132
BUBK	1	1	091177	1530	01	2395	STROMBIDIUM ACUMINATUM	4
BUBK	1	1	091177	1530	01	2400	STROMBIDIUM CALKINSI	76
BUBK	1	1	091177	1530	01	2405	STROMBIDIUM CONICUM	444
BUBK	1	1	091177	1530	01	2410	STROMBIDIUM CORNUCOPIAE	52
BUBK	1	1	091177	1530	01	2415	STROMBIDIUM OVALE	528
BUBK	1	1	091177	1530	01	2420	STROMBIDIUM STROBILUS	396
BUBK	1	1	091177	1530	01	2425	STROMBIDIUM SULCATUM	1772
BUBK	1	1	091177	1530	01	2430	STROMBIDIUM TYPICUM	196
BUBK	1	1	091177	1530	01	1450	TINTINNIDIUM INCERTUM	8
BUBK	1	1	091177	1530	01	1455	TINTINNOPSIS ACUMINATA	4
BUBK	1	1	091177	1530	01	1515	TINTINNOPSIS LUBIANCOI	4
BUBK	1	1	091177	1530	01	1540	TINTINNOPSIS SACCOLUS	28
BUBL	1	1	091177	1530	03	5155	EPHELOIA GEMINARIA	16
BUBL	1	1	091177	1530	03	2235	LOHMANIELLA OVIFORMIS	24
BUBL	1	1	091177	1530	03	5245	MESODINIUM RUBRUM	340
BUBL	1	1	091177	1530	03	2395	STROMBIDIUM ACUMINATUM	8
BUBL	1	1	091177	1530	03	2400	STROMBIDIUM CALKINSI	88
BUBL	1	1	091177	1530	03	2405	STROMBIDIUM CONICUM	464
BUBL	1	1	091177	1530	03	2410	STROMBIDIUM CORNUCOPIAE	36

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
B0BL	1	1	091177	1530	03	2415	STROMBIDIUM OVALE	424
B0BL	1	1	091177	1530	03	2420	STROMBIDIUM STROBILUS	356
B0BL	1	1	091177	1530	03	2425	STROMBIDIUM SULCATUM	2092
B0BL	1	1	091177	1530	03	2430	STROMBIDIUM TYPICUM	252
B0BL	1	1	091177	1530	03	5445	FIARINA GIGANTEA	12
B0BL	1	1	091177	1530	03	1515	TINTINNOPSIS LUBIANCOI	4
B0BL	1	1	091177	1530	03	1540	TINTINNOPSIS SACCULUS	16
B0D1	2	1	091177	1120	01	5170	EUPLUTES MINUTA	4
B0D1	2	1	091177	1120	01	2235	LUHMANIELLA OVIFORMIS	32
B0D1	2	1	091177	1120	01	2395	STROMBIDIUM ACUMINATUM	8
B0D1	2	1	091177	1120	01	2400	STROMBIDIUM CALKINSI	60
B0D1	2	1	091177	1120	01	2405	STROMBIDIUM CONICUM	64
B0D1	2	1	091177	1120	01	2415	STROMBIDIUM OVALE	232
B0D1	2	1	091177	1120	01	2420	STROMBIDIUM STROBILUS	16
B0D1	2	1	091177	1120	01	2425	STROMBIDIUM SULCATUM	100
B0D1	2	1	091177	1120	01	2430	STROMBIDIUM TYPICUM	4
B0D1	2	1	091177	1120	01	5445	FIARINA GIGANTEA	8
B0D1	2	1	091177	1120	01	1450	TINTINNIDIUM INCERTUM	4
B0D1	2	1	091177	1120	01	1455	TINTINNOPSIS ACUMINATA	4
B0D1	2	1	091177	1120	01	1480	TINTINNOPSIS DADAYI	4
B0D1	2	1	091177	1120	01	1530	TINTINNOPSIS PARVULA	4
B0D1	2	1	091177	1120	01	1550	TINTINNOPSIS TUCANTINENSIS	4
B0D1	2	1	091177	1120	01	1560	TINTINNUS TUBULOSUS	8
B0DJ	2	1	091177	1120	13	1160	EPIPLOCYCLIDES ACUTA	12
B0DJ	2	1	091177	1120	13	5170	EUPLUTES MINUTA	12
B0DJ	2	1	091177	1120	13	1185	EUTINTINNUS LASUS-UNDAE	16
B0DJ	2	1	091177	1120	13	2235	LUHMANIELLA OVIFORMIS	52
B0DJ	2	1	091177	1120	13	1365	SALPINGELLA MINUTISSIMA	12
B0DJ	2	1	091177	1120	13	2395	STROMBIDIUM ACUMINATUM	4
B0DJ	2	1	091177	1120	13	2400	STROMBIDIUM CALKINSI	68
B0DJ	2	1	091177	1120	13	2405	STROMBIDIUM CONICUM	168
B0DJ	2	1	091177	1120	13	2415	STROMBIDIUM OVALE	132

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BUDJ	2	1	091177	1120	13	2420	STROMBIDIUM STROBILUS	36
BUDJ	2	1	091177	1120	13	2425	STROMBIDIUM SULCATUM	484
BUDJ	2	1	091177	1120	13	2430	STROMBIDIUM TYPICUM	44
BUDJ	2	1	091177	1120	13	1460	TINTINNOPSIS BRANDTI	4
BUDJ	2	1	091177	1120	13	1540	TINTINNOPSIS SACCULUS	4
BUDJ	2	1	091177	1120	13	1455	TINTINNOPSIS ACUMINATA	16
BUDJ	2	1	091177	1120	13	2565	TONTONIA GRACILLIMA	16
BUF1	3	1	091177	0800	01	1090	CODONELLOPSIS AMERICANA	4
BUF1	3	1	091177	0800	01	5155	EPHELOTA GEMINARIA	4
BUF1	3	1	091177	0800	01	5170	EUPLOTES MINUTA	20
BUF1	3	1	091177	0800	01	1185	EUTINTINNUS LASUS-UNDAE	4
BUF1	3	1	091177	0800	01	2235	LOHMANIELLA OVIFORMIS	20
BUF1	3	1	091177	0800	01	2395	STROMBIDIUM ACUMINATUM	4
BUF1	3	1	091177	0800	01	2400	STROMBIDIUM CALKINSI	8
BUF1	3	1	091177	0800	01	2405	STROMBIDIUM CONICUM	44
BUF1	3	1	091177	0800	01	2415	STROMBIDIUM OVALE	36
BUF1	3	1	091177	0800	01	2420	STROMBIDIUM STROBILUS	32
BUF1	3	1	091177	0800	01	2425	STROMBIDIUM SULCATUM	128
BUF1	3	1	091177	0800	01	2430	STROMBIDIUM TYPICUM	52
BUF1	3	1	091177	0800	01	1560	TINTINNUS TUBULOSUS	8
BUF1	3	1	091177	0800	01	2565	TONTONIA GRACILLIMA	4
BUFJ	3	1	091177	0800	19	1185	EUTINTINNUS LASUS-UNDAE	8
BUFJ	3	1	091177	0800	19	2235	LOHMANIELLA OVIFORMIS	8
BUFJ	3	1	091177	0800	19	2400	STROMBIDIUM CALKINSI	24
BUFJ	3	1	091177	0800	19	2405	STROMBIDIUM CONICUM	12
BUFJ	3	1	091177	0800	19	2415	STROMBIDIUM OVALE	8
BUFJ	3	1	091177	0800	19	2420	STROMBIDIUM STROBILUS	20
BUFJ	3	1	091177	0800	19	2425	STROMBIDIUM SULCATUM	68
BUFJ	3	1	091177	0800	19	2430	STROMBIDIUM TYPICUM	28
BUFJ	3	1	091177	0800	19	5440	FIARINA FUSUS	12
BUFJ	3	1	091177	0800	19	2565	TONTONIA GRACILLIMA	4

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
B01A	1	2	091077	0830	01	1090	CODONELLOPSIS AMERICANA	8
B01A	1	2	091077	0830	01	5155	EPHELUTA GEMINARIA	8
B01A	1	2	091077	0830	01	2235	LOHMANIELLA OVIFORMIS	320
B01A	1	2	091077	0830	01	5245	MESODINIUM RUBRUM	12
B01A	1	2	091077	0830	01	1385	STENOSEMELLA VENTRICOSA	8
B01A	1	2	091077	0830	01	2395	STRUMBIDIUM ACUMINATUM	20
B01A	1	2	091077	0830	01	2400	STRUMBIDIUM CALKINSI	92
B01A	1	2	091077	0830	01	2405	STRUMBIDIUM CONICUM	156
B01A	1	2	091077	0830	01	2410	STRUMBIDIUM CORNUCOPIAE	24
B01A	1	2	091077	0830	01	2415	STRUMBIDIUM OVALE	632
B01A	1	2	091077	0830	01	2420	STRUMBIDIUM STRUBILUS	112
B01A	1	2	091077	0830	01	2425	STRUMBIDIUM SULCATUM	620
B01A	1	2	091077	0830	01	2430	STRUMBIDIUM TYPICUM	144
B01A	1	2	091077	0830	01	5445	TIARINA GIGANTEA	80
B01A	1	2	091077	0830	01	1450	TINTINNIDIUM INCERTUM	168
B01A	1	2	091077	0830	01	1455	TINTINNOPSIS ACUMINATA	68
B01A	1	2	091077	0830	01	1460	TINTINNOPSIS BRANDII	8
B01A	1	2	091077	0830	01	1470	TINTINNOPSIS COMPRESSA	36
B01A	1	2	091077	0830	01	1485	TINTINNOPSIS DIRECTA	32
B01A	1	2	091077	0830	01	1515	TINTINNOPSIS LUBIANCOI	880
B01A	1	2	091077	0830	01	1550	TINTINNOPSIS TOCANTINENSIS	350
B01B	1	2	091077	0830	03	1090	CODONELLOPSIS AMERICANA	4
B01B	1	2	091077	0830	03	2235	LOHMANIELLA OVIFORMIS	284
B01B	1	2	091077	0830	03	5245	MESODINIUM RUBRUM	4
B01B	1	2	091077	0830	03	2395	STRUMBIDIUM ACUMINATUM	48
B01B	1	2	091077	0830	03	2400	STRUMBIDIUM CALKINSI	72
B01B	1	2	091077	0830	03	2405	STRUMBIDIUM CONICUM	156
B01B	1	2	091077	0830	03	2410	STRUMBIDIUM CORNUCOPIAE	20
B01B	1	2	091077	0830	03	2415	STRUMBIDIUM OVALE	560
B01B	1	2	091077	0830	03	2420	STRUMBIDIUM STRUBILUS	220
B01B	1	2	091077	0830	03	2425	STRUMBIDIUM SULCATUM	632
B01B	1	2	091077	0830	03	2430	STRUMBIDIUM TYPICUM	104
B01B	1	2	091077	0830	03	5445	TIARINA GIGANTEA	112

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
B01B	1	2	091077	0830	03	1450	TINTINNIDIUM INCERTUM	220
B01B	1	2	091077	0830	03	1455	TINTINNOPSIS ACUMINATA	20
B01B	1	2	091077	0830	03	1460	TINTINNOPSIS BRANDII	4
B01B	1	2	091077	0830	03	1480	TINTINNOPSIS DADAYI	16
B01B	1	2	091077	0830	03	1485	TINTINNOPSIS DIRECTA	28
B01B	1	2	091077	0830	03	1515	TINTINNOPSIS LOBIANCOI	896
B01B	1	2	091077	0830	03	1525	TINTINNOPSIS OVALE	4
B01B	1	2	091077	0830	03	1550	TINTINNOPSIS TOCANTINENSIS	300
B0KB	2	2	091077	1200	01	1090	CODONELLOPSIS AMERICANA	4
B0KB	2	2	091077	1200	01	1160	EPIPLUCYCLOIDES ACUTA	16
B0KB	2	2	091077	1200	01	2235	LOHMANIELLA OVIFORMIS	20
B0KB	2	2	091077	1200	01	2400	STROMBIDIUM CALKINSI	16
B0KB	2	2	091077	1200	01	2405	STROMBIDIUM CONICUM	52
B0KB	2	2	091077	1200	01	2415	STROMBIDIUM OVALE	64
B0KB	2	2	091077	1200	01	2420	STROMBIDIUM STROBILUS	84
B0KB	2	2	091077	1200	01	2425	STROMBIDIUM SULCATUM	80
B0KB	2	2	091077	1200	01	2430	STROMBIDIUM TYPICUM	44
B0KB	2	2	091077	1200	01	1560	TINTINNUS TURULUSUS	16
B0KC	2	2	091077	1200	14	4025	ACTINOSPHAERA EICHHORNII	4
B0KC	2	2	091077	1200	14	1045	AMPHORIDES QUADRILINEATA	4
B0KC	2	2	091077	1200	14	1090	CODONELLOPSIS AMERICANA	4
B0KC	2	2	091077	1200	14	1160	EPIPLUCYCLOIDES ACUTA	16
B0KC	2	2	091077	1200	14	1185	EUTINTINNUS LASUS-UNDAE	4
B0KC	2	2	091077	1200	14	2235	LOHMANIELLA OVIFORMIS	12
B0KC	2	2	091077	1200	14	2400	STROMBIDIUM CALKINSI	44
B0KC	2	2	091077	1200	14	2405	STROMBIDIUM CONICUM	128
B0KC	2	2	091077	1200	14	2415	STROMBIDIUM OVALE	24
B0KC	2	2	091077	1200	14	2420	STROMBIDIUM STROBILUS	24
B0KC	2	2	091077	1200	14	2425	STROMBIDIUM SULCATUM	248
B0KC	2	2	091077	1200	14	2430	STROMBIDIUM TYPICUM	24
B0KC	2	2	091077	1200	14	1455	TINTINNOPSIS ACUMINATA	4

SACD	S	T	DATE	TIME	Z	SPLD	SPECIES NAME	NOPL
BUMD	3	2	090977	1730	01	1045	AMPHORIDES QUADRILINEATA	4
BUMD	3	2	090977	1730	01	1160	EPIPLUCYCLOIDES ACUTA	12
BUMD	3	2	090977	1730	01	2235	LOHMANIELLA OVIFORMIS	12
BUMD	3	2	090977	1730	01	2400	STROMBIDIUM CALKINSI	24
BUMD	3	2	090977	1730	01	2405	STROMBIDIUM CONICUM	56
BUMD	3	2	090977	1730	01	2410	STROMBIDIUM CORNUCOPIAE	4
BUMD	3	2	090977	1730	01	2415	STROMBIDIUM OVALE	40
BUMD	3	2	090977	1730	01	2420	STROMBIDIUM STROBILUS	20
BUMD	3	2	090977	1730	01	2425	STROMBIDIUM SULCATUM	216
BUMD	3	2	090977	1730	01	2430	STROMBIDIUM TYPICUM	44
BUMD	3	2	090977	1730	01	1450	TINTINNIDIUM INCERTUM	28
BUMD	3	2	090977	1730	01	1455	TINTINNOPSIS ACUMINATA	4
BUMD	3	2	090977	1730	01	1550	TINTINNOPSIS TOCANTINENSIS	4
BUMD	3	2	090977	1730	01	1560	TINTINNUS TUBULOSUS	8
BUMD	3	2	090977	1730	01	2565	TONTONIA GRACILLIMA	8
BUME	3	2	090977	1730	07	1045	AMPHORIDES QUADRILINEATA	4
BUME	3	2	090977	1730	07	1160	EPIPLUCYCLOIDES ACUTA	12
BUME	3	2	090977	1730	07	1185	EUTINTINNUS LASUS-UNDAE	8
BUME	3	2	090977	1730	07	2235	LOHMANIELLA OVIFORMIS	24
BUME	3	2	090977	1730	07	2400	STROMBIDIUM CALKINSI	12
BUME	3	2	090977	1730	07	2405	STROMBIDIUM CONICUM	40
BUME	3	2	090977	1730	07	2415	STROMBIDIUM OVALE	16
BUME	3	2	090977	1730	07	2420	STROMBIDIUM STROBILUS	12
BUME	3	2	090977	1730	07	2425	STROMBIDIUM SULCATUM	128
BUME	3	2	090977	1730	07	2430	STROMBIDIUM TYPICUM	16
BUME	3	2	090977	1730	07	1450	TINTINNIDIUM INCERTUM	20
BUME	3	2	090977	1730	07	1550	TINTINNOPSIS TOCANTINENSIS	4
BUPD	1	3	090877	1300	01	3055	BULIVINA STRIATULA	4
BUPD	1	3	090877	1300	01	2235	LOHMANIELLA OVIFORMIS	44
BUPD	1	3	090877	1300	01	5245	MESODINIUM RUBRUM	20
BUPD	1	3	090877	1300	01	2395	STROMBIDIUM ACUMINATUM	276
BUPD	1	3	090877	1300	01	2400	STROMBIDIUM CALKINSI	52

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BOPD	1	3	090877	1300	01	2405	STROMBIDIUM CONICUM	352
BOPD	1	3	090877	1300	01	2410	STROMBIDIUM CORNUCOPIAE	96
BOPD	1	3	090877	1300	01	2415	STROMBIDIUM OVALE	5546
BOPD	1	3	090877	1300	01	2420	STROMBIDIUM STROBILUS	124
BOPD	1	3	090877	1300	01	2425	STROMBIDIUM SULCATUM	9682
BOPD	1	3	090877	1300	01	2430	STROMBIDIUM TYPICUM	12
BOPD	1	3	090877	1300	01	5445	TIARINA GIGANTEA	184
BOPD	1	3	090877	1300	01	1450	TINTINNIDIUM INCERTUM	128
BOPD	1	3	090877	1300	01	1455	TINTINNOPSIS ACUMINATA	68
BOPD	1	3	090877	1300	01	1480	TINTINNOPSIS DADAYI	28
BOPD	1	3	090877	1300	01	1485	TINTINNOPSIS DIRECTA	16
BOPD	1	3	090877	1300	01	1515	TINTINNOPSIS LOBIANCOI	1420
BOPD	1	3	090877	1300	01	1550	TINTINNOPSIS TOCANTINENSIS	324
BOPD	1	3	090877	1300	01	2565	TONTONIA GRACILLIMA	4
BOPD	1	3	090877	1300	01	5570	TRICOPHYA COLUMBIAE	8
BOPE	1	3	090877	1300	03	5155	EPHELUTA GEMINARIA	4
BOPE	1	3	090877	1300	03	2235	LOHMANIELLA OVIFORMIS	92
BOPE	1	3	090877	1300	03	2395	STROMBIDIUM ACUMINATUM	220
BOPE	1	3	090877	1300	03	2400	STROMBIDIUM CALKINSI	48
BOPE	1	3	090877	1300	03	2405	STROMBIDIUM CONICUM	116
BOPE	1	3	090877	1300	03	2410	STROMBIDIUM CORNUCOPIAE	76
BOPE	1	3	090877	1300	03	2415	STROMBIDIUM OVALE	5546
BOPE	1	3	090877	1300	03	2420	STROMBIDIUM STROBILUS	124
BOPE	1	3	090877	1300	03	2425	STROMBIDIUM SULCATUM	6392
BOPE	1	3	090877	1300	03	2430	STROMBIDIUM TYPICUM	20
BOPE	1	3	090877	1300	03	5445	TIARINA GIGANTEA	216
BOPE	1	3	090877	1300	03	1450	TINTINNIDIUM INCERTUM	100
BOPE	1	3	090877	1300	03	1455	TINTINNOPSIS ACUMINATA	160
BOPE	1	3	090877	1300	03	1470	TINTINNOPSIS COMPRESSA	12
BOPE	1	3	090877	1300	03	1480	TINTINNOPSIS DADAYI	40
BOPE	1	3	090877	1300	03	1485	TINTINNOPSIS DIRECTA	28
BOPE	1	3	090877	1300	03	1515	TINTINNOPSIS LOBIANCOI	1084
BOPE	1	3	090877	1300	03	1550	TINTINNOPSIS TOCANTINENSIS	360

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BDPE	1	3	090877	1300	03	5570	TRICOPHYA COLUMBIAE	4
BORB	2	3	090877	1800	01	1045	AMPHORIDES QUADRILINEATA	4
BORB	2	3	090877	1800	01	1160	EPIPLUCYCLOIDES ACUTA	8
BORB	2	3	090877	1800	01	1185	EUTINTINNUS LASUS-UNDAE	4
BORB	2	3	090877	1800	01	2235	LOHMANIELLA OVIFORMIS	32
BORB	2	3	090877	1800	01	1270	PARONDELLA ATTENUATA	4
BORB	2	3	090877	1800	01	2400	STROMBIDIUM CALKINSI	20
BORB	2	3	090877	1800	01	2405	STROMBIDIUM CONICUM	44
BORB	2	3	090877	1800	01	2415	STROMBIDIUM OVALE	36
BORB	2	3	090877	1800	01	2420	STROMBIDIUM STROBILUS	28
BORB	2	3	090877	1800	01	2425	STROMBIDIUM SULCATUM	348
BORB	2	3	090877	1800	01	2430	STROMBIDIUM TYPICUM	32
BORB	2	3	090877	1800	01	1455	TINTINNOPSIS ACUMINATA	16
BORB	2	3	090877	1800	01	1560	TINTINNUS TUBULOSUS	16
BORC	2	3	090877	1800	13	1115	DADAYIELLA GANYMEDES	4
BORC	2	3	090877	1800	13	1185	EUTINTINNUS LASUS-UNDAE	4
BORC	2	3	090877	1800	13	2235	LOHMANIELLA OVIFORMIS	20
BORC	2	3	090877	1800	13	2405	STROMBIDIUM CONICUM	32
BORC	2	3	090877	1800	13	2415	STROMBIDIUM OVALE	48
BORC	2	3	090877	1800	13	2420	STROMBIDIUM STROBILUS	8
BORC	2	3	090877	1800	13	2425	STROMBIDIUM SULCATUM	144
BORC	2	3	090877	1800	13	2430	STROMBIDIUM TYPICUM	20
BORC	2	3	090877	1800	13	5435	TIARINA FOCUS	12
BORC	2	3	090877	1800	13	1450	TINTINNIDIUM INCERTUM	12
BORC	2	3	090877	1800	13	2565	TONTONIA GRACILLIMA	4
BDTB	3	3	090977	1020	01	1045	AMPHORIDES QUADRILINEATA	4
BDTB	3	3	090977	1020	01	5175	EUPLUTES SEXCOSTATUS	12
BDTB	3	3	090977	1020	01	1185	EUTINTINNUS LASUS-UNDAE	4
BDTB	3	3	090977	1020	01	2235	LOHMANIELLA OVIFORMIS	56
BDTB	3	3	090977	1020	01	2400	STROMBIDIUM CALKINSI	28
BDTB	3	3	090977	1020	01	2405	STROMBIDIUM CONICUM	60



SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BOIB	3	3	090977	1020	01	2415	STRUMBIDIUM OVALE	32
BOIB	3	3	090977	1020	01	2420	STRUMBIDIUM STROBILUS	44
BOIB	3	3	090977	1020	01	2425	STRUMBIDIUM SULCATUM	116
BOIB	3	3	090977	1020	01	2430	STRUMBIDIUM TYPICUM	20
BOIB	3	3	090977	1020	01	1560	TINTINNUS TUBULOSUS	4
BOIC	3	3	090977	1020	23	1090	CODONELLOPSIS AMERICANA	4
BOIC	3	3	090977	1020	23	5175	EUPLOTES SEXCOSTATUS	28
BOIC	3	3	090977	1020	23	1180	EUTINTINNUS APERTUS	4
BOIC	3	3	090977	1020	23	1185	EUTINTINNUS LASUS-UNDAE	8
BOIC	3	3	090977	1020	23	2235	LOHMANIELLA OVIFORMIS	56
BOIC	3	3	090977	1020	23	1305	PROTORHABDONELLA CURTA	8
BOIC	3	3	090977	1020	23	2400	STRUMBIDIUM CALKINSI	36
BOIC	3	3	090977	1020	23	2405	STRUMBIDIUM CONICUM	40
BOIC	3	3	090977	1020	23	2415	STRUMBIDIUM OVALE	60
BOIC	3	3	090977	1020	23	2420	STRUMBIDIUM STROBILUS	16
BOIC	3	3	090977	1020	23	2425	STRUMBIDIUM SULCATUM	140
BOIC	3	3	090977	1020	23	2430	STRUMBIDIUM TYPICUM	20
BOIC	3	3	090977	1020	23	2565	TONTONIA GRACILLIMA	4
BOVC	1	4	090777	1830	01	1090	CODONELLOPSIS AMERICANA	24
BOVC	1	4	090777	1830	01	5155	EPHELUTA GEMINARIA	4
BOVC	1	4	090777	1830	01	5175	EUPLOTES SEXCOSTATUS	12
BOVC	1	4	090777	1830	01	2235	LOHMANIELLA OVIFORMIS	104
BOVC	1	4	090777	1830	01	2395	STRUMBIDIUM ACUMINATUM	292
BOVC	1	4	090777	1830	01	2400	STRUMBIDIUM CALKINSI	160
BOVC	1	4	090777	1830	01	2405	STRUMBIDIUM CONICUM	1260
BOVC	1	4	090777	1830	01	2410	STRUMBIDIUM CORNUCOPIAE	72
BOVC	1	4	090777	1830	01	2415	STRUMBIDIUM OVALE	1048
BOVC	1	4	090777	1830	01	2420	STRUMBIDIUM STROBILUS	388
BOVC	1	4	090777	1830	01	2425	STRUMBIDIUM SULCATUM	1956
BOVC	1	4	090777	1830	01	2430	STRUMBIDIUM TYPICUM	52
BOVC	1	4	090777	1830	01	5445	FIARINA GIGANTEA	176
BOVC	1	4	090777	1830	01	1450	TINTINNIDIUM INCERTUM	832

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BOVC	1	4	090777	1830	01	1455	TINTINNOPSIS ACUMINATA	272
BOVC	1	4	090777	1830	01	1460	TINTINNOPSIS BRANDTI	44
BOVC	1	4	090777	1830	01	1470	TINTINNOPSIS COMPRESSA	128
BOVC	1	4	090777	1830	01	1480	TINTINNOPSIS DADAYI	36
BOVC	1	4	090777	1830	01	1485	TINTINNOPSIS DIRECTA	24
BOVC	1	4	090777	1830	01	1515	TINTINNOPSIS LUBIANCOI	624
BOVC	1	4	090777	1830	01	1535	TINTINNOPSIS RADIX	4
BOVC	1	4	090777	1830	01	1550	TINTINNOPSIS TOCANTINENSIS	316
BOVC	1	4	090777	1830	01	5570	TRICOPHYA COLUMBIAE	4
BOVD	1	4	090777	1830	02	1185	EUTINTINNUS LASUS-UNDAE	31
BOVD	1	4	090777	1830	02	2235	LOHMANIELLA OVIFORMIS	409
BOVD	1	4	090777	1830	02	5245	MESODINIUM RUBRUM	31
BOVD	1	4	090777	1830	02	2395	STROMBIDIUM ACUMINATUM	346
BOVD	1	4	090777	1830	02	2400	STROMBIDIUM CALKINSI	346
BOVD	1	4	090777	1830	02	2405	STROMBIDIUM CUNICUM	1635
BOVD	1	4	090777	1830	02	2410	STROMBIDIUM CORNUCOPIAE	63
BOVD	1	4	090777	1830	02	2415	STROMBIDIUM OVALE	2170
BOVD	1	4	090777	1830	02	2420	STROMBIDIUM STROBILUS	252
BOVD	1	4	090777	1830	02	2425	STROMBIDIUM SULCATUM	3963
BOVD	1	4	090777	1830	02	2430	STROMBIDIUM TYPICUM	126
BOVD	1	4	090777	1830	02	5445	TIARINA GIGANTEA	63
BOVD	1	4	090777	1830	02	1450	TINTINNIDIUM INCERTUM	598
BOVD	1	4	090777	1830	02	1455	TINTINNOPSIS ACUMINATA	440
BOVD	1	4	090777	1830	02	1460	TINTINNOPSIS BRANDTI	31
BOVD	1	4	090777	1830	02	1470	TINTINNOPSIS COMPRESSA	126
BOVD	1	4	090777	1830	02	1480	TINTINNOPSIS DADAYI	31
BOVD	1	4	090777	1830	02	1485	TINTINNOPSIS DIRECTA	31
BOVD	1	4	090777	1830	02	1515	TINTINNOPSIS LUBIANCOI	975
BOVD	1	4	090777	1830	02	1550	TINTINNOPSIS TOCANTINENSIS	377
BOXA	2	4	090777	1400	01	1085	CLIMACOCYLIS SCALAROIDES	4
BOXA	2	4	090777	1400	01	1185	EUTINTINNUS LASUS-UNDAE	12
BOXA	2	4	090777	1400	01	2400	STROMBIDIUM CALKINSI	8

SALD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
B0XA	2	4	090777	1400	01	2405	STROMBIDIUM CONICUM	116
B0XA	2	4	090777	1400	01	2415	STROMBIDIUM OVALE	16
B0XA	2	4	090777	1400	01	2420	STROMBIDIUM STRUBILUS	12
B0XA	2	4	090777	1400	01	2425	STROMBIDIUM SULCATUM	80
B0XA	2	4	090777	1400	01	2430	STROMBIDIUM TYPICUM	8
B0XA	2	4	090777	1400	01	1470	TINTINNOPSIS COMPRESSA	4
B0XA	2	4	090777	1400	01	1480	TINTINNOPSIS DADAYI	20
B0XA	2	4	090777	1400	01	1485	TINTINNOPSIS DIRECTA	16
B0XA	2	4	090777	1400	01	1555	TINTINNOPSIS TUBULOSA	8
B0XB	2	4	090777	1400	07	4075	CERATOSPYRIS SP.	4
B0XB	2	4	090777	1400	07	2235	LUHMANIELLA OVIFORMIS	4
B0XB	2	4	090777	1400	07	2395	STROMBIDIUM ACUMINATUM	8
B0XB	2	4	090777	1400	07	2400	STROMBIDIUM CALKINSI	4
B0XB	2	4	090777	1400	07	2405	STROMBIDIUM CONICUM	20
B0XB	2	4	090777	1400	07	2415	STROMBIDIUM OVALE	100
B0XB	2	4	090777	1400	07	2420	STROMBIDIUM STRUBILUS	8
B0XB	2	4	090777	1400	07	2425	STROMBIDIUM SULCATUM	56
B0XB	2	4	090777	1400	07	2430	STROMBIDIUM TYPICUM	12
B0XB	2	4	090777	1400	07	5445	FIARINA GIGANTEA	16
B0XB	2	4	090777	1400	07	1450	TINTINNIDIUM INCERTUM	48
B0XB	2	4	090777	1400	07	1455	TINTINNOPSIS ACUMINATA	108
B0XB	2	4	090777	1400	07	1470	TINTINNOPSIS COMPRESSA	8
B0XB	2	4	090777	1400	07	1480	TINTINNOPSIS DADAYI	72
B0XB	2	4	090777	1400	07	1485	TINTINNOPSIS DIRECTA	32
B0XB	2	4	090777	1400	07	1515	TINTINNOPSIS LOBIANCOI	24
B0XB	2	4	090777	1400	07	1550	TINTINNOPSIS TUCANTINENSIS	60
B0XB	2	4	090777	1400	07	1555	TINTINNOPSIS TUBULOSA	4
B0ZA	3	4	090777	0815	01	4075	CERATOSPYRIS SP.	4
B0ZA	3	4	090777	0815	01	1185	EUTINTINNUS LASUS-UNDAE	8
B0ZA	3	4	090777	0815	01	2235	LUHMANIELLA OVIFORMIS	4
B0ZA	3	4	090777	0815	01	2400	STROMBIDIUM CALKINSI	8
B0ZA	3	4	090777	0815	01	2405	STROMBIDIUM CONICUM	20

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BUZA	3	4	090777	0815	01	2415	STROMBIDIUM OVALE	20
BUZA	3	4	090777	0815	01	2420	STROMBIDIUM STROBILUS	20
BUZA	3	4	090777	0815	01	2425	STROMBIDIUM SULCATUM	48
BUZA	3	4	090777	0815	01	2565	TONTONIA GRACILLIMA	8
BUZB	3	4	090777	0815	40	2235	LOHMANIELLA OVIFORMIS	12
BUZB	3	4	090777	0815	40	1305	PROTORHABDONELLA CURTA	4
BUZB	3	4	090777	0815	40	1340	RHABDONELLA NEBE	4
BUZB	3	4	090777	0815	40	2400	STROMBIDIUM CALKINSI	12
BUZB	3	4	090777	0815	40	2405	STROMBIDIUM CONICUM	40
BUZB	3	4	090777	0815	40	2415	STROMBIDIUM OVALE	32
BUZB	3	4	090777	0815	40	2420	STROMBIDIUM STROBILUS	12
BUZB	3	4	090777	0815	40	2425	STROMBIDIUM SULCATUM	36
BUZB	3	4	090777	0815	40	2430	STROMBIDIUM TYPICUM	8
BUZB	3	4	090777	0815	40	1560	TINTINNUS TUBULOSUS	4
BUZB	3	4	090777	0815	40	2565	TONTONIA GRACILLIMA	8
BSQE	1	2	102177	1255	01	5155	EPHELOTA GEMINARIA	16
BSQE	1	2	102177	1255	01	2235	LOHMANIELLA OVIFORMIS	60
BSQE	1	2	102177	1255	01	5245	MESODINIUM RUBRUM	168
BSQE	1	2	102177	1255	01	2400	STROMBIDIUM CALKINSI	48
BSQE	1	2	102177	1255	01	2405	STROMBIDIUM CONICUM	332
BSQE	1	2	102177	1255	01	2410	STROMBIDIUM CORNUCOPIAE	4
BSQE	1	2	102177	1255	01	2415	STROMBIDIUM OVALE	528
BSQE	1	2	102177	1255	01	2420	STROMBIDIUM STROBILUS	20
BSQE	1	2	102177	1255	01	2425	STROMBIDIUM SULCATUM	1596
BSQE	1	2	102177	1255	01	2430	STROMBIDIUM TYPICUM	284
BSQE	1	2	102177	1255	01	2565	TONTONIA GRACILLIMA	8
BSQE	1	2	102177	1255	01	1450	TINTINNIDIUM INCERTUM	8
BSQF	1	2	102177	1255	00	5155	EPHELOTA GEMINARIA	44
BSQF	1	2	102177	1255	00	2235	LOHMANIELLA OVIFORMIS	52
BSQF	1	2	102177	1255	00	5250	NASSULA MICROSPORA	8
BSQF	1	2	102177	1255	00	2400	STROMBIDIUM CALKINSI	88

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSWF	1	2	102177	1255	08	2405	STROMBIDIUM CONICUM	268
BSWF	1	2	102177	1255	08	2410	STROMBIDIUM CORNUCOPIAE	4
BSWF	1	2	102177	1255	08	2415	STROMBIDIUM OVALE	644
BSWF	1	2	102177	1255	08	2420	STROMBIDIUM STROBILUS	220
BSWF	1	2	102177	1255	08	2425	STROMBIDIUM SULCATUM	480
BSWF	1	2	102177	1255	08	2430	STROMBIDIUM TYPICUM	272
BSWF	1	2	102177	1255	08	2565	TONTONIA GRACILLIMA	24
BSWF	1	2	102177	1255	08	5245	MESODINIUM RUBRUM	8
BSUG	2	2	102077	1155	01	2235	LOHMANIELLA OVIFORMIS	56
BSUG	2	2	102077	1155	01	2400	STROMBIDIUM CALKINSI	12
BSUG	2	2	102077	1155	01	2405	STROMBIDIUM CONICUM	60
BSUG	2	2	102077	1155	01	2415	STROMBIDIUM OVALE	88
BSUG	2	2	102077	1155	01	2420	STROMBIDIUM STROBILUS	32
BSUG	2	2	102077	1155	01	2425	STROMBIDIUM SULCATUM	152
BSUG	2	2	102077	1155	01	2430	STROMBIDIUM TYPICUM	44
BSUG	2	2	102077	1155	01	2565	TONTONIA GRACILLIMA	12
BSUH	2	2	102077	1155	13	1160	EPIPLUCYCLOIDES ACUTA	4
BSUH	2	2	102077	1155	13	2235	LOHMANIELLA OVIFORMIS	36
BSUH	2	2	102077	1155	13	5245	MESODINIUM RUBRUM	4
BSUH	2	2	102077	1155	13	2400	STROMBIDIUM CALKINSI	24
BSUH	2	2	102077	1155	13	2405	STROMBIDIUM CONICUM	112
BSUH	2	2	102077	1155	13	2415	STROMBIDIUM OVALE	104
BSUH	2	2	102077	1155	13	2420	STROMBIDIUM STROBILUS	40
BSUH	2	2	102077	1155	13	2425	STROMBIDIUM SULCATUM	244
BSUH	2	2	102077	1155	13	2430	STROMBIDIUM TYPICUM	24
BSUH	2	2	102077	1155	13	2565	TONTONIA GRACILLIMA	8
BSUI	3	2	102177	0820	01	1105	EUTINTINUS LASUS-UNDAE	8
BSUI	3	2	102177	0820	01	3210	GLUBIGERINA PACHYDERMA	4
BSUI	3	2	102177	0820	01	2235	LOHMANIELLA OVIFORMIS	16
BSUI	3	2	102177	0820	01	1305	PROTOKHABDOMELLA CURTA	4
BSUI	3	2	102177	0820	01	2400	STROMBIDIUM CALKINSI	16

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSQI	3	2	102177	0820	01	2405	STROMBIDIUM CONICUM	40
BSQI	3	2	102177	0820	01	2415	STROMBIDIUM OVALE	76
BSQI	3	2	102177	0820	01	2420	STROMBIDIUM STROBILUS	32
BSQI	3	2	102177	0820	01	2425	STROMBIDIUM SULCATUM	92
BSQI	3	2	102177	0820	01	2430	STROMBIDIUM TYPICUM	20
BSQI	3	2	102177	0820	01	5435	TIARINA FUCUS	4
BSQI	3	2	102177	0820	01	2565	TONTONIA GRACILLIMA	24
BSQJ	3	2	102177	0820	26	2235	LOHMANIELLA OVIFORMIS	28
BSQJ	3	2	102177	0820	26	2400	STROMBIDIUM CALKINSI	8
BSQJ	3	2	102177	0820	26	2405	STROMBIDIUM CONICUM	64
BSQJ	3	2	102177	0820	26	2415	STROMBIDIUM OVALE	36
BSQJ	3	2	102177	0820	26	2420	STROMBIDIUM STROBILUS	16
BSQJ	3	2	102177	0820	26	2425	STROMBIDIUM SULCATUM	144
BSQJ	3	2	102177	0820	26	2430	STROMBIDIUM TYPICUM	20
BSQJ	3	2	102177	0820	26	2565	TONTONIA GRACILLIMA	16
BSBJ	1	2	110677	0800	01	1090	CUDONELLOPSIS AMERICANA	16
BSBJ	1	2	110677	0800	01	2235	LOHMANIELLA OVIFORMIS	16
BSBJ	1	2	110677	0800	01	5245	MESODINIUM RUBRUM	136
BSBJ	1	2	110677	0800	01	1385	STENOSEMELLA VENTRICOSA	56
BSBJ	1	2	110677	0800	01	2405	STROMBIDIUM CONICUM	84
BSBJ	1	2	110677	0800	01	2415	STROMBIDIUM OVALE	108
BSBJ	1	2	110677	0800	01	2420	STROMBIDIUM STROBILUS	32
BSBJ	1	2	110677	0800	01	2425	STROMBIDIUM SULCATUM	148
BSBJ	1	2	110677	0800	01	2430	STROMBIDIUM TYPICUM	44
BSBJ	1	2	110677	0800	01	1450	TINTINNIDIUM INCERTUM	4
BSBJ	1	2	110677	0800	01	1555	TINTINNOPSIS TUBULOSA	8
BSBJ	1	2	110677	0800	01	2565	TONTONIA GRACILLIMA	4
BSPW	1	2	110677	0800	01	1090	CUDONELLOPSIS AMERICANA	32
BSPW	1	2	110677	0800	01	5145	DIDINIUM GIGANTEA	4
BSPW	1	2	110677	0800	01	2235	LOHMANIELLA OVIFORMIS	40
BSPW	1	2	110677	0800	01	5245	MESODINIUM RUBRUM	344

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSPW	1	2	110677	0800	01	1385	STENOSEMELLA VENTRICOSA	32
BSPW	1	2	110677	0800	01	2400	STRUMBIDIUM CALKINSI	4
BSPW	1	2	110677	0800	01	2405	STRUMBIDIUM CONICUM	128
BSPW	1	2	110677	0800	01	2410	STRUMBIDIUM CORNUCOPIAE	12
BSPW	1	2	110677	0800	01	2415	STRUMBIDIUM OVALE	136
BSPW	1	2	110677	0800	01	2420	STRUMBIDIUM STROBILUS	32
BSPW	1	2	110677	0800	01	2425	STRUMBIDIUM SULCATUM	104
BSPW	1	2	110677	0800	01	2430	STRUMBIDIUM TYPICUM	88
BSPW	1	2	110677	0800	01	1450	TINTINNIDIUM INCERTUM	8
BSPW	1	2	110677	0800	01	1555	TINTINNOPSIS TUBULOSA	4
BSPW	1	2	110677	0800	01	1585	UNDELLA HYALINA	4
BSPX	1	2	110677	0800	01	1090	CODONELLOPSIS AMERICANA	24
BSPX	1	2	110677	0800	01	5145	DIDINIUM GIGANTEA	8
BSPX	1	2	110677	0800	01	2235	LUHMANIELLA OVIFORMIS	80
BSPX	1	2	110677	0800	01	5245	MESODINIUM RUBRUM	500
BSPX	1	2	110677	0800	01	1385	STENOSEMELLA VENTRICOSA	64
BSPX	1	2	110677	0800	01	2395	STRUMBIDIUM ACUMINATUM	4
BSPX	1	2	110677	0800	01	2400	STRUMBIDIUM CALKINSI	28
BSPX	1	2	110677	0800	01	2405	STRUMBIDIUM CONICUM	204
BSPX	1	2	110677	0800	01	2410	STRUMBIDIUM CORNUCOPIAE	12
BSPX	1	2	110677	0800	01	2415	STRUMBIDIUM OVALE	184
BSPX	1	2	110677	0800	01	2420	STRUMBIDIUM STROBILUS	48
BSPX	1	2	110677	0800	01	2425	STRUMBIDIUM SULCATUM	140
BSPX	1	2	110677	0800	01	2430	STRUMBIDIUM TYPICUM	148
BSPX	1	2	110677	0800	01	5445	TIARINA GIGANTEA	4
BSPX	1	2	110677	0800	01	1450	TINTINNIDIUM INCERTUM	12
BSPX	1	2	110677	0800	01	1555	TINTINNOPSIS TUBULOSA	8
BSJC	1	2	110677	0800	07	1090	CODONELLOPSIS AMERICANA	20
BSJC	1	2	110677	0800	07	5155	EPHELUTA GEMINARIA	8
BSJC	1	2	110677	0800	07	2235	LUHMANIELLA OVIFORMIS	76
BSJC	1	2	110677	0800	07	5245	MESODINIUM RUBRUM	436
BSJC	1	2	110677	0800	07	1385	STENOSEMELLA VENTRICOSA	72

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BSJC	1	2	110677	0800	07	2395	STROMBIDIUM ACUMINATUM	8
BSJC	1	2	110677	0800	07	2400	STROMBIDIUM CALKINSI	12
BSJC	1	2	110677	0800	07	2405	STROMBIDIUM CONICUM	112
BSJC	1	2	110677	0800	07	2410	STROMBIDIUM CORNUCOPIAE	8
BSJC	1	2	110677	0800	07	2415	STROMBIDIUM OVALE	168
BSJC	1	2	110677	0800	07	2420	STROMBIDIUM STROBILUS	32
BSJC	1	2	110677	0800	07	2425	STROMBIDIUM SULCATUM	92
BSJC	1	2	110677	0800	07	2430	STROMBIDIUM TYPICUM	80
BSJC	1	2	110677	0800	07	5445	TIARINA GIGANTEA	8
BSPY	1	2	110677	0800	07	1090	CODONELLOPSIS AMERICANA	32
BSPY	1	2	110677	0800	07	5155	EPHELOTA GEMINARIA	12
BSPY	1	2	110677	0800	07	2235	LUHMANIELLA OVIFORMIS	52
BSPY	1	2	110677	0800	07	5245	MESODINIUM RUBRUM	548
BSPY	1	2	110677	0800	07	1385	STENOSEMELLA VENTRICOSA	84
BSPY	1	2	110677	0800	07	2400	STROMBIDIUM CALKINSI	8
BSPY	1	2	110677	0800	07	2405	STROMBIDIUM CONICUM	124
BSPY	1	2	110677	0800	07	2410	STROMBIDIUM CORNUCOPIAE	8
BSPY	1	2	110677	0800	07	2415	STROMBIDIUM OVALE	228
BSPY	1	2	110677	0800	07	2420	STROMBIDIUM STROBILUS	36
BSPY	1	2	110677	0800	07	2425	STROMBIDIUM SULCATUM	56
BSPY	1	2	110677	0800	07	2430	STROMBIDIUM TYPICUM	60
BSPY	1	2	110677	0800	07	5445	TIARINA GIGANTEA	4
BSPY	1	2	110677	0800	07	1450	TINTINNIDIUM INCERTUM	4
BSPY	1	2	110677	0800	07	1555	TINTINNOPSIS TUBULOSA	4
BSPY	1	2	110677	0800	07	2565	TONTONIA GRACILLIMA	8
BSPZ	1	2	110677	0800	07	1090	CODONELLOPSIS AMERICANA	4
BSPZ	1	2	110677	0800	07	5155	EPHELOTA GEMINARIA	20
BSPZ	1	2	110677	0800	07	2235	LUHMANIELLA OVIFORMIS	12
BSPZ	1	2	110677	0800	07	5245	MESODINIUM RUBRUM	536
BSPZ	1	2	110677	0800	07	1385	STENOSEMELLA VENTRICOSA	60
BSPZ	1	2	110677	0800	07	2400	STROMBIDIUM CALKINSI	32
BSPZ	1	2	110677	0800	07	2405	STROMBIDIUM CONICUM	108



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bSPZ	1	2	110677	0800	07	2410	STROMBIDIUM CORNUCOPIAE	4
bSPZ	1	2	110677	0800	07	2415	STROMBIDIUM OVALE	196
bSPZ	1	2	110677	0800	07	2420	STROMBIDIUM STROBILUS	20
bSPZ	1	2	110677	0800	07	2425	STROMBIDIUM SULCATUM	112
bSPZ	1	2	110677	0800	07	2430	STROMBIDIUM TYPICUM	92
bSPZ	1	2	110677	0800	07	1450	TINTINNIDIUM INCERTUM	4
bSPZ	1	2	110677	0800	07	2565	TONTONIA GRACILLIMA	4
bSKS	2	2	110577	1050	01	5155	EPHELUTA GEMINARIA	4
bSKS	2	2	110577	1050	01	3210	GLOBIGERINA PACHYDERMA	4
bSKS	2	2	110577	1050	01	4230	LITHOMELLISA SEIOSA	4
bSKS	2	2	110577	1050	01	2235	LUHMANIELLA OVIFORMIS	16
bSKS	2	2	110577	1050	01	1355	SALPINGACANTHA UNDATA	4
bSKS	2	2	110577	1050	01	2400	STROMBIDIUM CALKINSI	24
bSKS	2	2	110577	1050	01	2405	STROMBIDIUM CONICUM	108
bSKS	2	2	110577	1050	01	2415	STROMBIDIUM OVALE	148
bSKS	2	2	110577	1050	01	2420	STROMBIDIUM STROBILUS	32
bSKS	2	2	110577	1050	01	2425	STROMBIDIUM SULCATUM	132
bSKS	2	2	110577	1050	01	2430	STROMBIDIUM TYPICUM	24
bSKS	2	2	110577	1050	01	2565	TONTONIA GRACILLIMA	12
bSKI	2	2	110577	1050	23	2235	LUHMANIELLA OVIFORMIS	32
bSKI	2	2	110577	1050	23	4370	SPHAERUZOOM PUNCIATA	4
bSKI	2	2	110577	1050	23	2400	STROMBIDIUM CALKINSI	8
bSKI	2	2	110577	1050	23	2405	STROMBIDIUM CONICUM	24
bSKI	2	2	110577	1050	23	2415	STROMBIDIUM OVALE	20
bSKI	2	2	110577	1050	23	2420	STROMBIDIUM STROBILUS	8
bSKI	2	2	110577	1050	23	2425	STROMBIDIUM SULCATUM	56
bSKI	2	2	110577	1050	23	2430	STROMBIDIUM TYPICUM	36
bSKI	2	2	110577	1050	23	1560	TINTINNUS TUBULOSUS	4
bSMH	3	2	110577	1630	01	2235	LUHMANIELLA OVIFORMIS	32
bSMH	3	2	110577	1630	01	1290	PROPLECTELLA CLAPAREDEI	8
bSMH	3	2	110577	1630	01	1305	PROTOKHABDONELLA CURTA	4

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BSMM	3	2	110577	1630	01	1330	RHABDONELLA BRANDTI	4
BSMM	3	2	110577	1630	01	2400	STROMBIDIUM CALKINSI	16
BSMM	3	2	110577	1630	01	2405	STROMBIDIUM CONICUM	88
BSMM	3	2	110577	1630	01	2415	STROMBIDIUM OVALE	40
BSMM	3	2	110577	1630	01	2420	STROMBIDIUM STROBILUS	36
BSMM	3	2	110577	1630	01	2425	STROMBIDIUM SULCATUM	172
BSQA	3	2	110577	1630	01	1115	DADAYIELLA GANYMEDES	4
BSQA	3	2	110577	1630	01	2235	LUHMANIELLA OVIFORMIS	16
BSQA	3	2	110577	1630	01	5245	MESODINIUM RUBRUM	4
BSQA	3	2	110577	1630	01	1290	PROPLECTIELLA CLAPAREDEI	4
BSQA	3	2	110577	1630	01	1305	PROTORHABDONELLA CURTA	4
BSQA	3	2	110577	1630	01	1330	RHABDONELLA BRANDTI	4
BSQA	3	2	110577	1630	01	2400	STROMBIDIUM CALKINSI	12
BSQA	3	2	110577	1630	01	2405	STROMBIDIUM CONICUM	48
BSQA	3	2	110577	1630	01	2415	STROMBIDIUM OVALE	36
BSQA	3	2	110577	1630	01	2420	STROMBIDIUM STROBILUS	24
BSQA	3	2	110577	1630	01	2425	STROMBIDIUM SULCATUM	128
BSQA	3	2	110577	1630	01	2430	STROMBIDIUM TYPICUM	20
BSQB	3	2	110577	1630	01	1115	DADAYIELLA GANYMEDES	20
BSQB	3	2	110577	1630	01	2235	LUHMANIELLA OVIFORMIS	10
BSQB	3	2	110577	1630	01	2400	STROMBIDIUM CALKINSI	20
BSQB	3	2	110577	1630	01	2405	STROMBIDIUM CONICUM	10
BSQB	3	2	110577	1630	01	2415	STROMBIDIUM OVALE	270
BSQB	3	2	110577	1630	01	2420	STROMBIDIUM STROBILUS	10
BSQB	3	2	110577	1630	01	2425	STROMBIDIUM SULCATUM	220
BSQB	3	2	110577	1630	01	2430	STROMBIDIUM TYPICUM	30
BSMN	3	2	110577	1630	35	1160	EPIPLUCYCLOIDES ACUTA	10
BSMN	3	2	110577	1630	35	4230	LITHOMELLISA SETOSA	10
BSMN	3	2	110577	1630	35	2235	LUHMANIELLA OVIFORMIS	20
BSMN	3	2	110577	1630	35	1290	PROPLECTIELLA CLAPAREDEI	10
BSMN	3	2	110577	1630	35	2405	STROMBIDIUM CONICUM	90

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BSMN	3	2	110577	1630	35	2415	STROMBIDIUM OVALE	440
BSMN	3	2	110577	1630	35	2420	STROMBIDIUM STROBILUS	10
BSMN	3	2	110577	1630	35	2425	STROMBIDIUM SULCATUM	200
BSMN	3	2	110577	1630	35	2430	STROMBIDIUM TYPICUM	10
BSMN	3	2	110577	1630	35	2565	TONTONIA GRACILLIMA	20
BSQC	3	2	110577	1630	35	2235	LOHMANIELLA OVIFORMIS	40
BSQC	3	2	110577	1630	35	5245	MESODINIUM RUBRUM	10
BSQC	3	2	110577	1630	35	1290	PROPECTELLA CLAPAREDEI	10
BSQC	3	2	110577	1630	35	1305	PROTORHABDONELLA CURTA	10
BSQC	3	2	110577	1630	35	1333	RHABDONELLA CANELATA	10
BSQC	3	2	110577	1630	35	1380	STEENSTRUPIELLA GRACILIS	10
BSQC	3	2	110577	1630	35	2405	STROMBIDIUM CONICUM	50
BSQC	3	2	110577	1630	35	2415	STROMBIDIUM OVALE	370
BSQC	3	2	110577	1630	35	2425	STROMBIDIUM SULCATUM	180
BSQC	3	2	110577	1630	35	2430	STROMBIDIUM TYPICUM	20
BSQC	3	2	110577	1630	35	2565	TONTONIA GRACILLIMA	10
BSQD	3	2	110577	1630	35	5155	EPHELUTA GEMINARIA	10
BSQD	3	2	110577	1630	35	2235	LOHMANIELLA OVIFORMIS	50
BSQD	3	2	110577	1630	35	5245	MESODINIUM RUBRUM	10
BSQD	3	2	110577	1630	35	1290	PROPECTELLA CLAPAREDEI	20
BSQD	3	2	110577	1630	35	2400	STROMBIDIUM CALKINSI	30
BSQD	3	2	110577	1630	35	2405	STROMBIDIUM CONICUM	30
BSQD	3	2	110577	1630	35	2415	STROMBIDIUM OVALE	280
BSQD	3	2	110577	1630	35	2420	STROMBIDIUM STROBILUS	20
BSQD	3	2	110577	1630	35	2425	STROMBIDIUM SULCATUM	170
BSQD	3	2	110577	1630	35	2430	STROMBIDIUM TYPICUM	10
BIXJ	1	2	120377	1335	01	1090	CODONELLOPSIS AMERICANA	10
BIXJ	1	2	120377	1335	01	5155	EPHELUTA GEMINARIA	40
BIXJ	1	2	120377	1335	01	2235	LOHMANIELLA OVIFORMIS	620
BIXJ	1	2	120377	1335	01	5245	MESODINIUM RUBRUM	200
BIXJ	1	2	120377	1335	01	1360	SALPINGELLA ACUMINATA	30

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BIXJ	1	2	120377	1335	01	2395	STROMBIDIUM ACUMINATUM	10
BIXJ	1	2	120377	1335	01	2400	STROMBIDIUM CALKINSI	50
BIXJ	1	2	120377	1335	01	2405	STROMBIDIUM CONICUM	870
BIXJ	1	2	120377	1335	01	2410	STROMBIDIUM CORNUCOPIAE	20
BIXJ	1	2	120377	1335	01	2415	STROMBIDIUM OVALE	560
BIXJ	1	2	120377	1335	01	2420	STROMBIDIUM STROBILUS	250
BIXJ	1	2	120377	1335	01	2425	STROMBIDIUM SULCATUM	490
BIXJ	1	2	120377	1335	01	2430	STROMBIDIUM TYPICUM	180
BIXJ	1	2	120377	1335	01	1450	TINTINNIDIUM INCERTUM	50
BIXK	1	2	120377	1335	03	5155	EPELUTA GEMINARIA	20
BIXK	1	2	120377	1335	03	2235	LUHMANIELLA OVIFORMIS	550
BIXK	1	2	120377	1335	03	5245	MESODINIUM RUBRUM	230
BIXK	1	2	120377	1335	03	2395	STROMBIDIUM ACUMINATUM	10
BIXK	1	2	120377	1335	03	2400	STROMBIDIUM CALKINSI	20
BIXK	1	2	120377	1335	03	2405	STROMBIDIUM CONICUM	730
BIXK	1	2	120377	1335	03	2415	STROMBIDIUM OVALE	510
BIXK	1	2	120377	1335	03	2420	STROMBIDIUM STROBILUS	170
BIXK	1	2	120377	1335	03	2425	STROMBIDIUM SULCATUM	510
BIXK	1	2	120377	1335	03	2430	STROMBIDIUM TYPICUM	220
BIXK	1	2	120377	1335	03	1450	TINTINNIDIUM INCERTUM	50
BIXK	1	2	120377	1335	03	2565	LUNTONIA GRACILLIMA	10
BIXK	1	2	120377	1335	03	2410	STROMBIDIUM CORNUCOPIAE	10
BUND	1	2	120377	1335	03	5155	EPELUTA GEMINARIA	50
BUND	1	2	120377	1335	03	2235	LUHMANIELLA OVIFORMIS	300
BUND	1	2	120377	1335	03	5245	MESODINIUM RUBRUM	260
BUND	1	2	120377	1335	03	2395	STROMBIDIUM ACUMINATUM	40
BUND	1	2	120377	1335	03	2400	STROMBIDIUM CALKINSI	20
BUND	1	2	120377	1335	03	2405	STROMBIDIUM CONICUM	380
BUND	1	2	120377	1335	03	2415	STROMBIDIUM OVALE	570
BUND	1	2	120377	1335	03	2420	STROMBIDIUM STROBILUS	90
BUND	1	2	120377	1335	03	2425	STROMBIDIUM SULCATUM	310
BUND	1	2	120377	1335	03	2430	STROMBIDIUM TYPICUM	150

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BOND	1	2	120377	1335	03	1450	TINTINNIDIUM INCERTUM	20
BONE	1	2	120377	1335	03	5155	EPHELOTA GEMINARIA	80
BONE	1	2	120377	1335	03	2235	LOHMANIELLA OVIFORMIS	380
BONE	1	2	120377	1335	03	5245	MESODINIUM RUBRUM	520
BONE	1	2	120377	1335	03	2400	STROMBIDIUM CALKINSI	30
BONE	1	2	120377	1335	03	2405	STROMBIDIUM CONICUM	870
BONE	1	2	120377	1335	03	2410	STROMBIDIUM CORNUCOPIAE	10
BONE	1	2	120377	1335	03	2415	STROMBIDIUM OVALE	550
BONE	1	2	120377	1335	03	2420	STROMBIDIUM STROBILUS	180
BONE	1	2	120377	1335	03	2425	STROMBIDIUM SULCATUM	790
BONE	1	2	120377	1335	03	2430	STROMBIDIUM TYPICUM	170
BONE	1	2	120377	1335	03	5445	TIARINA GIGANTEA	10
BONE	1	2	120377	1335	03	1450	TINTINNIDIUM INCERTUM	80
BTZB	2	2	120277	1200	01	2235	LOHMANIELLA OVIFORMIS	430
BTZB	2	2	120277	1200	01	5245	MESODINIUM RUBRUM	80
BTZB	2	2	120277	1200	01	2400	STROMBIDIUM CALKINSI	80
BTZB	2	2	120277	1200	01	2405	STROMBIDIUM CONICUM	450
BTZB	2	2	120277	1200	01	2415	STROMBIDIUM OVALE	1850
BTZB	2	2	120277	1200	01	2420	STROMBIDIUM STROBILUS	30
BTZB	2	2	120277	1200	01	2425	STROMBIDIUM SULCATUM	910
BTZB	2	2	120277	1200	01	2430	STROMBIDIUM TYPICUM	150
BUNF	2	2	120277	1200	01	5155	EPHELOTA GEMINARIA	10
BUNF	2	2	120277	1200	01	2235	LOHMANIELLA OVIFORMIS	360
BUNF	2	2	120277	1200	01	5245	MESODINIUM RUBRUM	40
BUNF	2	2	120277	1200	01	2395	STROMBIDIUM ACUMINATUM	30
BUNF	2	2	120277	1200	01	2400	STROMBIDIUM CALKINSI	90
BUNF	2	2	120277	1200	01	2405	STROMBIDIUM CONICUM	770
BUNF	2	2	120277	1200	01	2415	STROMBIDIUM OVALE	1930
BUNF	2	2	120277	1200	01	2420	STROMBIDIUM STROBILUS	30
BUNF	2	2	120277	1200	01	2425	STROMBIDIUM SULCATUM	1110
BUNF	2	2	120277	1200	01	2430	STROMBIDIUM TYPICUM	130

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BUHG	2	2	120277	1200	01	1185	EUTINTINNUS LASUS-UNDAE	10
BUHG	2	2	120277	1200	01	2235	LOHMANIELLA OVIFORMIS	260
BUHG	2	2	120277	1200	01	5245	MESODINIUM RUBRUM	30
BUHG	2	2	120277	1200	01	2400	STROMBIDIUM CALKINSI	100
BUHG	2	2	120277	1200	01	2405	STROMBIDIUM CONICUM	600
BUHG	2	2	120277	1200	01	2415	STROMBIDIUM OVALE	1420
BUHG	2	2	120277	1200	01	2420	STROMBIDIUM STROBILUS	20
BUHG	2	2	120277	1200	01	2425	STROMBIDIUM SULCATUM	990
BUHG	2	2	120277	1200	01	2430	STROMBIDIUM TYPICUM	80
BUHG	2	2	120277	1200	01	1585	UNDELLA HYALINA	10
BTZC	2	2	120277	1200	15	2235	LOHMANIELLA OVIFORMIS	280
BTZC	2	2	120277	1200	15	5245	MESODINIUM RUBRUM	50
BTZC	2	2	120277	1200	15	2400	STROMBIDIUM CALKINSI	30
BTZC	2	2	120277	1200	15	2405	STROMBIDIUM CONICUM	310
BTZC	2	2	120277	1200	15	2415	STROMBIDIUM OVALE	1450
BTZC	2	2	120277	1200	15	2420	STROMBIDIUM STROBILUS	120
BTZC	2	2	120277	1200	15	2425	STROMBIDIUM SULCATUM	770
BTZC	2	2	120277	1200	15	2430	STROMBIDIUM TYPICUM	210
BTZC	2	2	120277	1200	15	1450	TINTINNIDIUM INCERTUM	20
BTZC	2	2	120277	1200	15	2565	TUNTONIA GRACILLIMA	10
BUHH	2	2	120277	1200	15	2235	LOHMANIELLA OVIFORMIS	270
BUHH	2	2	120277	1200	15	5245	MESODINIUM RUBRUM	40
BUHH	2	2	120277	1200	15	1360	SALPINGELLA ACUMINATA	10
BUHH	2	2	120277	1200	15	2400	STROMBIDIUM CALKINSI	20
BUHH	2	2	120277	1200	15	2405	STROMBIDIUM CONICUM	270
BUHH	2	2	120277	1200	15	2410	STROMBIDIUM CORNUCOPIAE	10
BUHH	2	2	120277	1200	15	2415	STROMBIDIUM OVALE	1190
BUHH	2	2	120277	1200	15	2420	STROMBIDIUM STROBILUS	50
BUHH	2	2	120277	1200	15	2425	STROMBIDIUM SULCATUM	530
BUHH	2	2	120277	1200	15	2430	STROMBIDIUM TYPICUM	140
BUHH	2	2	120277	1200	15	1450	TINTINNIDIUM INCERTUM	30

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BUHH	2	2	120277	1200	15	2565	TONTONIA GRACILLIMA	10
BUHI	2	2	120277	1200	15	2235	LOHMANIELLA OVIFORMIS	280
BUHI	2	2	120277	1200	15	5245	MESODINIUM RUBRUM	30
BUHI	2	2	120277	1200	15	1360	SALPINGELLA ACUMINATA	10
BUHI	2	2	120277	1200	15	2400	STROMBIDIUM CALKINSI	50
BUHI	2	2	120277	1200	15	2405	STROMBIDIUM CONICUM	230
BUHI	2	2	120277	1200	15	2415	STROMBIDIUM OVALE	1230
BUHI	2	2	120277	1200	15	2420	STROMBIDIUM STROBILUS	80
BUHI	2	2	120277	1200	15	2425	STROMBIDIUM SULCATUM	520
BUHI	2	2	120277	1200	15	2430	STROMBIDIUM TYPICUM	80
BUHI	2	2	120277	1200	15	1450	TINTINNIDIUM INCERTUM	20
BUAU	3	2	120377	0930	01	1015	ACANTHOSTOMELLA NORVEGICA	10
BUAU	3	2	120377	0930	01	1115	DADAYIELLA GANYMEDES	10
BUAU	3	2	120377	0930	01	1185	EUTINTINUS LASUS-UNDAE	10
BUAU	3	2	120377	0930	01	2235	LOHMANIELLA OVIFORMIS	160
BUAU	3	2	120377	0930	01	1290	PROPLECTELLA CLAPAREDEI	10
BUAU	3	2	120377	0930	01	2400	STROMBIDIUM CALKINSI	10
BUAU	3	2	120377	0930	01	2405	STROMBIDIUM CONICUM	70
BUAU	3	2	120377	0930	01	2415	STROMBIDIUM OVALE	420
BUAU	3	2	120377	0930	01	2420	STROMBIDIUM STROBILUS	70
BUAU	3	2	120377	0930	01	2425	STROMBIDIUM SULCATUM	470
BUAU	3	2	120377	0930	01	2430	STROMBIDIUM TYPICUM	20
BUHJ	3	2	120377	0930	01	1015	ACANTHOSTOMELLA NORVEGICA	10
BUHJ	3	2	120377	0930	01	1160	EPIPLUCYCLOIDES ACUTA	10
BUHJ	3	2	120377	0930	01	2235	LOHMANIELLA OVIFORMIS	180
BUHJ	3	2	120377	0930	01	1360	SALPINGELLA ACUMINATA	10
BUHJ	3	2	120377	0930	01	2400	STROMBIDIUM CALKINSI	50
BUHJ	3	2	120377	0930	01	2405	STROMBIDIUM CONICUM	210
BUHJ	3	2	120377	0930	01	2415	STROMBIDIUM OVALE	170
BUHJ	3	2	120377	0930	01	2420	STROMBIDIUM STROBILUS	30
BUHJ	3	2	120377	0930	01	2425	STROMBIDIUM SULCATUM	550

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BUHJ	3	2	120377	0930	01	2430	STROMBIDIUM TYPICUM	30
BUHJ	3	2	120377	0930	01	5435	TIARINA FUCUS	10
BUHJ	3	2	120377	0930	01	1470	TINTINNOPSIS COMPRESSA	10
BUHK	3	2	120377	0930	01	1010	ACANTHOSTOMELLA GRACILIS	20
BUHK	3	2	120377	0930	01	1160	EPIPLOCYCLOIDES ACUTA	10
BUHK	3	2	120377	0930	01	2235	LOHMANIELLA OVIFORMIS	250
BUHK	3	2	120377	0930	01	1360	SALPINGELLA ACUMINATA	30
BUHK	3	2	120377	0930	01	2400	STROMBIDIUM CALKINSI	20
BUHK	3	2	120377	0930	01	2405	STROMBIDIUM CONICUM	190
BUHK	3	2	120377	0930	01	2410	STROMBIDIUM CORNUCOPIAE	10
BUHK	3	2	120377	0930	01	2415	STROMBIDIUM OVALE	300
BUHK	3	2	120377	0930	01	2420	STROMBIDIUM STROBILUS	30
BUHK	3	2	120377	0930	01	2425	STROMBIDIUM SULCATUM	630
BUHK	3	2	120377	0930	01	2430	STROMBIDIUM TYPICUM	20
BUAV	3	2	120377	0930	13	1010	ACANTHOSTOMELLA GRACILIS	30
BUAV	3	2	120377	0930	13	4230	LITHOMELLISA SETOSA	10
BUAV	3	2	120377	0930	13	2235	LOHMANIELLA OVIFORMIS	270
BUAV	3	2	120377	0930	13	1305	PROTORHABDONELLA CURTA	20
BUAV	3	2	120377	0930	13	1360	SALPINGELLA ACUMINATA	10
BUAV	3	2	120377	0930	13	2400	STROMBIDIUM CALKINSI	10
BUAV	3	2	120377	0930	13	2405	STROMBIDIUM CONICUM	220
BUAV	3	2	120377	0930	13	2415	STROMBIDIUM OVALE	340
BUAV	3	2	120377	0930	13	2420	STROMBIDIUM STROBILUS	90
BUAV	3	2	120377	0930	13	2425	STROMBIDIUM SULCATUM	500
BUAV	3	2	120377	0930	13	2430	STROMBIDIUM TYPICUM	20
BUAV	3	2	120377	0930	13	5435	TIARINA FUCUS	10



SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUM	1	1	012177	0830	01	5145	DIDINIUM GIGANTEA	4
BSUM	1	1	012177	0830	01	2235	LOHMANIELLA OVIFORMIS	12
BSUM	1	1	012177	0830	01	5245	MESODINIUM RUBRUM	8
BSUM	1	1	012177	0830	01	2400	STROMBIDIUM CALKINSI	64
BSUM	1	1	012177	0830	01	2405	STROMBIDIUM CONICUM	4
BSUM	1	1	012177	0830	01	2415	STROMBIDIUM OVALE	8
BSUM	1	1	012177	0830	01	2420	STROMBIDIUM STROBILUS	4
BSUM	1	1	012177	0830	01	2425	STROMBIDIUM SULCATUM	172
BSUM	1	1	012177	0830	01	2430	STROMBIDIUM TYPICUM	68
BSUM	1	1	012177	0830	01	5435	TIARINA FUCUS	4
BSUM	1	1	012177	0830	01	5440	TIARINA FUSUS	52
BSUM	1	1	012177	0830	01	1450	TINTINNIDIUM INCERTUM	1832
BSUM	1	1	012177	0830	01	1455	TINTINNOPSIS ACUMINATA	80
BSUM	1	1	012177	0830	01	1520	TINTINNOPSIS MINUTA	36
BSUM	1	1	012177	0830	01	1525	TINTINNOPSIS OVALE	4
BSUM	1	1	012177	0830	01	1530	TINTINNOPSIS PARVULA	64
BSUM	1	1	012177	0830	01	1555	TINTINNOPSIS TUBULOSA	4
BAAZ	1	1	012177	0830	02	3060	BUCELLA FRIGIDA	4
BAAZ	1	1	012177	0830	02	1160	EPIPLOCYCLOIDES ACUTA	4
BAAZ	1	1	012177	0830	02	1195	FAVELLA PANAMENSIS	16
BAAZ	1	1	012177	0830	02	2235	LOHMANIELLA OVIFORMIS	24
BAAZ	1	1	012177	0830	02	5245	MESODINIUM RUBRUM	8
BAAZ	1	1	012177	0830	02	2400	STROMBIDIUM CALKINSI	40
BAAZ	1	1	012177	0830	02	2405	STROMBIDIUM CONICUM	4
BAAZ	1	1	012177	0830	02	2420	STROMBIDIUM STROBILUS	24
BAAZ	1	1	012177	0830	02	2425	STROMBIDIUM SULCATUM	116
BAAZ	1	1	012177	0830	02	2430	STROMBIDIUM TYPICUM	68
BAAZ	1	1	012177	0830	02	5440	TIARINA FUSUS	100
BAAZ	1	1	012177	0830	02	1450	TINTINNIDIUM INCERTUM	3112
BAAZ	1	1	012177	0830	02	1455	TINTINNOPSIS ACUMINATA	124
BAAZ	1	1	012177	0830	02	1470	TINTINNOPSIS COMPRESSA	8
BAAZ	1	1	012177	0830	02	1480	TINTINNOPSIS DADAYI	4
BAAZ	1	1	012177	0830	02	1495	TINTINNOPSIS FIMBRIATA	4

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BAAZ	1	1	012177	0830	02	1520	TINTINNOPSIS MINUTA	44
BAAZ	1	1	012177	0830	02	1530	TINTINNOPSIS PARVULA	48
BSUN	2	1	012177	1120	01	5155	EPHELOTA GEMINARIA	8
BSUN	2	1	012177	1120	01	1160	EPIPLOCYCLOIDES ACUTA	4
BSUN	2	1	012177	1120	01	3215	HASTIGERINA PELAGICA	8
BSUN	2	1	012177	1120	01	2235	LOHMANIELLA OVIFORMIS	52
BSUN	2	1	012177	1120	01	1355	SALPINGACANTHA UNDATA	4
BSUN	2	1	012177	1120	01	2400	STROMBIDIUM CALKINSI	12
BSUN	2	1	012177	1120	01	2405	STROMBIDIUM CONICUM	32
BSUN	2	1	012177	1120	01	2420	STROMBIDIUM STROBILUS	4
BSUN	2	1	012177	1120	01	2425	STROMBIDIUM SULCATUM	140
BSUN	2	1	012177	1120	01	2430	STROMBIDIUM TYPICUM	36
BSUN	2	1	012177	1120	01	5440	TIARINA FUSUS	12
BSUN	2	1	012177	1120	01	1455	TINTINNOPSIS ACUMINATA	172
BACS	2	1	012177	1120	14	3060	BUCELLA FRIGIDA	4
BACS	2	1	012177	1120	14	4110	CUBOTHALUS REGULARIS	4
BACS	2	1	012177	1120	14	5155	EPHELOTA GEMINARIA	8
BACS	2	1	012177	1120	14	4225	LITHELIUS ALVEOLINA	4
BACS	2	1	012177	1120	14	4230	LITHOMELLISA SETOSA	4
BACS	2	1	012177	1120	14	2235	LOHMANIELLA OVIFORMIS	100
BACS	2	1	012177	1120	14	5245	MESODINIUM RUBRUM	4
BACS	2	1	012177	1120	14	2400	STROMBIDIUM CALKINSI	20
BACS	2	1	012177	1120	14	2405	STROMBIDIUM CONICUM	56
BACS	2	1	012177	1120	14	2415	STROMBIDIUM OVALE	164
BACS	2	1	012177	1120	14	2420	STROMBIDIUM STROBILUS	16
BACS	2	1	012177	1120	14	2425	STROMBIDIUM SULCATUM	104
BACS	2	1	012177	1120	14	2430	STROMBIDIUM TYPICUM	28
BACS	2	1	012177	1120	14	1470	TINTINNOPSIS COMPRESSA	8
BACS	2	1	012177	1120	14	4595	ZYGOCIRCUS PISCICAUDATA	4
BS00	3	1	022177	1745	01	3210	GLOBIGERINA PACHYDERMA	4
BS00	3	1	022177	1745	01	2235	LOHMANIELLA OVIFORMIS	40

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BS00	3	1	022177	1745	01	5245	MESODINIUM RUBRUM	296
BS00	3	1	022177	1745	01	2400	STROMBIDIUM CALKINSI	36
BS00	3	1	022177	1745	01	2405	STROMBIDIUM CONICUM	68
BS00	3	1	022177	1745	01	2415	STROMBIDIUM OVALE	12
BS00	3	1	022177	1745	01	2420	STROMBIDIUM STROBILUS	20
BS00	3	1	022177	1745	01	2425	STROMBIDIUM SULCATUM	80
BS00	3	1	022177	1745	01	2430	STROMBIDIUM TYPICUM	8
BS00	3	1	022177	1745	01	5440	TIARINA FUSUS	48
BS00	3	1	022177	1745	01	1470	TINTINNOPSIS COMPRESSA	4
BS00	3	1	022177	1745	01	1520	TINTINNOPSIS MINUTA	4
BS00	3	1	022177	1745	01	1585	UNDELLA HYALINA	4
BAEN	3	1	022177	1745	10	2235	LOHMANIELLA OVIFORMIS	24
BAEN	3	1	022177	1745	10	2400	STROMBIDIUM CALKINSI	4
BAEN	3	1	022177	1745	10	2405	STROMBIDIUM CONICUM	4
BAEN	3	1	022177	1745	10	2420	STROMBIDIUM STROBILUS	4
BAEN	3	1	022177	1745	10	2425	STROMBIDIUM SULCATUM	4
BAEN	3	1	022177	1745	10	5440	TIARINA FUSUS	4
BAEN	3	1	022177	1745	10	5445	TIARINA GIGANTEA	8
BSUP	3	1	022177	1745	10	2235	LOHMANIELLA OVIFORMIS	12
BSUP	3	1	022177	1745	10	2400	STROMBIDIUM CALKINSI	16
BSUP	3	1	022177	1745	10	2405	STROMBIDIUM CONICUM	4
BSUP	3	1	022177	1745	10	2420	STROMBIDIUM STROBILUS	4
BSUP	3	1	022177	1745	10	2425	STROMBIDIUM SULCATUM	24
BSUQ	3	1	022177	1745	10	3210	GLOBIGERINA PACHYDERMA	4
BSUQ	3	1	022177	1745	10	2235	LOHMANIELLA OVIFORMIS	20
BSUQ	3	1	022177	1745	10	2400	STROMBIDIUM CALKINSI	12
BSUQ	3	1	022177	1745	10	2405	STROMBIDIUM CONICUM	4
BSUQ	3	1	022177	1745	10	2425	STROMBIDIUM SULCATUM	12
BSUQ	3	1	022177	1745	10	5445	TIARINA GIGANTEA	4
BSUR	1	2	011177	1620	01	3100	CORNUSPIRA PLANORBIS	4

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSOR	1	2	011177	1620	01	2235	LOHMANIELLA OVIFORMIS	20
BSOR	1	2	011177	1620	01	5245	MESODINIUM RUBRUM	4
BSOR	1	2	011177	1620	01	2400	STROMBIDIUM CALKINSI	96
BSOR	1	2	011177	1620	01	2405	STROMBIDIUM CONICUM	28
BSOR	1	2	011177	1620	01	2420	STROMBIDIUM STROBILUS	24
BSOR	1	2	011177	1620	01	2425	STROMBIDIUM SULCATUM	220
BSOR	1	2	011177	1620	01	2430	STROMBIDIUM TYPICUM	8
BSOR	1	2	011177	1620	01	5440	TIARINA FUSUS	32
BSOR	1	2	011177	1620	01	1450	TINTINNIDIUM INCERTUM	756
BSOR	1	2	011177	1620	01	1470	TINTINNOPSIS COMPRESSA	100
BSOR	1	2	011177	1620	01	1480	TINTINNOPSIS DADAYI	16
BAGZ	1	2	011177	1620	03	3210	GLOBIGERINA PACHYDERMA	4
BAGZ	1	2	011177	1620	03	2235	LOHMANIELLA OVIFORMIS	40
BAGZ	1	2	011177	1620	03	5245	MESODINIUM RUBRUM	4
BAGZ	1	2	011177	1620	03	2400	STROMBIDIUM CALKINSI	100
BAGZ	1	2	011177	1620	03	2405	STROMBIDIUM CONICUM	12
BAGZ	1	2	011177	1620	03	2420	STROMBIDIUM STROBILUS	28
BAGZ	1	2	011177	1620	03	2425	STROMBIDIUM SULCATUM	360
BAGZ	1	2	011177	1620	03	2430	STROMBIDIUM TYPICUM	4
BAGZ	1	2	011177	1620	03	5440	TIARINA FUSUS	20
BAGZ	1	2	011177	1620	03	1450	TINTINNIDIUM INCERTUM	552
BAGZ	1	2	011177	1620	03	1455	TINTINNOPSIS ACUMINATA	16
BAGZ	1	2	011177	1620	03	1470	TINTINNOPSIS COMPRESSA	112
BAGZ	1	2	011177	1620	03	1480	TINTINNOPSIS DADAYI	8
BAGZ	1	2	011177	1620	03	1500	TINTINNOPSIS LATA	4
BAGZ	1	2	011177	1620	03	1515	TINTINNOPSIS LOBIANCOI	4
BSUS	2	2	011177	1230	01	2235	LOHMANIELLA OVIFORMIS	32
BSUS	2	2	011177	1230	01	1380	STEENSTRUPIELLA GRACILIS	4
BSUS	2	2	011177	1230	01	2395	STROMBIDIUM ACUMINATUM	12
BSUS	2	2	011177	1230	01	2400	STROMBIDIUM CALKINSI	16
BSUS	2	2	011177	1230	01	2405	STROMBIDIUM CONICUM	12
BSUS	2	2	011177	1230	01	2415	STROMBIDIUM OVALE	36

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUS	2	2	011177	1230	01	2420	STROMBIDIUM STROBILUS	12
BSUS	2	2	011177	1230	01	2425	STROMBIDIUM SULCATUM	104
BSUS	2	2	011177	1230	01	2430	STROMBIDIUM TYPICUM	28
BSUS	2	2	011177	1230	01	1470	TININNOPIS COMPRESSA	8
BAJ	2	2	011177	1230	09	5145	DIDINIUM GIGANTEA	4
BAJ	2	2	011177	1230	09	5155	EPHELOTA GEMINARIA	12
BAJ	2	2	011177	1230	09	5165	EUGLYPHA LOEVI	4
BAJ	2	2	011177	1230	09	3215	HASTIGERINA PELAGICA	4
BAJ	2	2	011177	1230	09	2235	LOHMANIELLA OVIIFORMIS	92
BAJ	2	2	011177	1230	09	5245	MESODINIUM RUBRUM	4
BAJ	2	2	011177	1230	09	2400	STROMBIDIUM CALKINSI	36
BAJ	2	2	011177	1230	09	2405	STROMBIDIUM CONICUM	104
BAJ	2	2	011177	1230	09	2415	STROMBIDIUM OVALE	32
BAJ	2	2	011177	1230	09	2420	STROMBIDIUM STROBILUS	52
BAJ	2	2	011177	1230	09	2425	STROMBIDIUM SULCATUM	304
BAJ	2	2	011177	1230	09	2430	STROMBIDIUM TYPICUM	52
BAJ	2	2	011177	1230	09	1450	TININNIUM INCERTUM	28
BAJ	2	2	011177	1230	09	1470	TININNOPIS COMPRESSA	36
BSOT	3	2	022277	0900	01	5155	EPHELOTA GEMINARIA	8
BSOT	3	2	022277	0900	01	2235	LOHMANIELLA OVIIFORMIS	68
BSOT	3	2	022277	0900	01	5245	MESODINIUM RUBRUM	16
BSOT	3	2	022277	0900	01	2395	STROMBIDIUM ACUMINATUM	12
BSOT	3	2	022277	0900	01	2400	STROMBIDIUM CALKINSI	88
BSOT	3	2	022277	0900	01	2405	STROMBIDIUM CONICUM	40
BSOT	3	2	022277	0900	01	2415	STROMBIDIUM OVALE	52
BSOT	3	2	022277	0900	01	2420	STROMBIDIUM STROBILUS	36
BSOT	3	2	022277	0900	01	2425	STROMBIDIUM SULCATUM	164
BSOT	3	2	022277	0900	01	2430	STROMBIDIUM TYPICUM	16
BSOT	3	2	022277	0900	01	5400	STROMBIDIUM CALKINSI	36
BSOT	3	2	022277	0900	01	1470	TININNOPIS COMPRESSA	4
BSOT	3	2	022277	0900	01	4595	ZYGOCIRCUS PISCICAUDATA	4

SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BALK	3	2	022277	0900	09	5155	EPHELOTA GEMINARIA	4
BALK	3	2	022277	0900	09	3210	GLOBIGERINA PACHYDERMA	4
BALK	3	2	022277	0900	09	2235	LOHMANIELLA OVIFORMIS	96
BALK	3	2	022277	0900	09	2395	STROMBIDIUM ACUMINATUM	4
BALK	3	2	022277	0900	09	2400	STROMBIDIUM CALKINSI	32
BALK	3	2	022277	0900	09	2405	STROMBIDIUM CONICUM	8
BALK	3	2	022277	0900	09	2415	STROMBIDIUM OVALE	68
BALK	3	2	022277	0900	09	2420	STROMBIDIUM STROBILUS	4
BALK	3	2	022277	0900	09	2425	STROMBIDIUM SULCATUM	88
BALK	3	2	022277	0900	09	5440	TIARINA FUSUS	8
BSOU	3	2	022277	0900	09	5155	EPHELOTA GEMINARIA	16
BSOU	3	2	022277	0900	09	3210	GLOBIGERINA PACHYDERMA	4
BSOU	3	2	022277	0900	09	2235	LOHMANIELLA OVIFORMIS	112
BSOU	3	2	022277	0900	09	2400	STROMBIDIUM CALKINSI	60
BSOU	3	2	022277	0900	09	2415	STROMBIDIUM OVALE	48
BSOU	3	2	022277	0900	09	2420	STROMBIDIUM STROBILUS	4
BSOU	3	2	022277	0900	09	2425	STROMBIDIUM SULCATUM	48
BSOU	3	2	022277	0900	09	5440	TIARINA FUSUS	12
BSOU	3	2	022277	0900	09	4595	ZYGOCIRCUS PISCICAUDATA	4
BSOV	3	2	022277	0900	09	5155	EPHELOTA GEMINARIA	20
BSOV	3	2	022277	0900	09	3210	GLOBIGERINA PACHYDERMA	4
BSOV	3	2	022277	0900	09	3215	HASTIGERINA PELAGICA	12
BSOV	3	2	022277	0900	09	2235	LOHMANIELLA OVIFORMIS	144
BSOV	3	2	022277	0900	09	2400	STROMBIDIUM CALKINSI	44
BSOV	3	2	022277	0900	09	2415	STROMBIDIUM OVALE	112
BSOV	3	2	022277	0900	09	2425	STROMBIDIUM SULCATUM	48
BSOV	3	2	022277	0900	09	2430	STROMBIDIUM TYPICUM	12
BSOV	3	2	022277	0900	09	5440	TIARINA FUSUS	8
BSOW	1	3	012077	1630	01	1135	DICTYOCYSTA LATA	4
BSOW	1	3	012077	1630	01	2235	LOHMANIELLA OVIFORMIS	4
BSOW	1	3	012077	1630	01	5245	MESODINIUM RUBRUM	8

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSOW	1	3	012077	1630	01	2400	STROMBIDIUM CALKINSI	12
BSOW	1	3	012077	1630	01	2405	STROMBIDIUM CONICUM	260
BSOW	1	3	012077	1630	01	2415	STROMBIDIUM OVALE	44
BSOW	1	3	012077	1630	01	2420	STROMBIDIUM STROBILUS	56
BSOW	1	3	012077	1630	01	2425	STROMBIDIUM SULCATUM	76
BSOW	1	3	012077	1630	01	2430	STROMBIDIUM TYPICUM	96
BSOW	1	3	012077	1630	01	5440	TIARINA FUSUS	100
BSOW	1	3	012077	1630	01	1450	TINTINNIDIUM INCERTUM	1332
BSOW	1	3	012077	1630	01	1455	TINTINNOPSIS ACUMINATA	16
BSOW	1	3	012077	1630	01	1470	TINTINNOPSIS COMPRESSA	48
BSOW	1	3	012077	1630	01	1480	TINTINNOPSIS DADAYI	8
BSOW	1	3	012077	1630	01	1520	TINTINNOPSIS MINUTA	52
BSOW	1	3	012077	1630	01	1530	TINTINNOPSIS PARVULA	4
BAGZ	1	3	012077	1630	03	1115	DADAYIELLA GANYMEDES	4
BAGZ	1	3	012077	1630	03	1160	EPIPLUCYCLOIDES ACUTA	8
BAGZ	1	3	012077	1630	03	2235	LOHMANIELLA OVIFORMIS	36
BAGZ	1	3	012077	1630	03	5245	MESODINIUM RUBRUM	28
BAGZ	1	3	012077	1630	03	1380	STEENSTRUPIELLA GRACILIS	4
BAGZ	1	3	012077	1630	03	2400	STROMBIDIUM CALKINSI	140
BAGZ	1	3	012077	1630	03	2405	STROMBIDIUM CONICUM	96
BAGZ	1	3	012077	1630	03	2415	STROMBIDIUM OVALE	20
BAGZ	1	3	012077	1630	03	2420	STROMBIDIUM STROBILUS	196
BAGZ	1	3	012077	1630	03	2425	STROMBIDIUM SULCATUM	480
BAGZ	1	3	012077	1630	03	2430	STROMBIDIUM TYPICUM	104
BAGZ	1	3	012077	1630	03	5445	TIARINA GIGANTEA	180
BAGZ	1	3	012077	1630	03	1450	TINTINNIDIUM INCERTUM	1648
BAGZ	1	3	012077	1630	03	1455	TINTINNOPSIS ACUMINATA	64
BAGZ	1	3	012077	1630	03	1470	TINTINNOPSIS COMPRESSA	108
BAGZ	1	3	012077	1630	03	1520	TINTINNOPSIS MINUTA	12
BAGZ	1	3	012077	1630	03	1530	TINTINNOPSIS PARVULA	8
BSUX	2	3	012077	1130	01	5155	EPHELUTA GEMINARIA	72
BSUX	2	3	012077	1130	01	5210	GLOBIGERINA PACHYDERMA	4

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSUX	2	3	012077	1130	01	4230	LITHOMELLISA SETOSA	4
BSUX	2	3	012077	1130	01	2235	LOHMANIELLA OVIFORMIS	96
BSUX	2	3	012077	1130	01	5245	MESODINIUM RUBRUM	88
BSUX	2	3	012077	1130	01	2395	STROMBIDIUM ACUMINATUM	8
BSUX	2	3	012077	1130	01	2400	STROMBIDIUM CALKINSI	40
BSUX	2	3	012077	1130	01	2405	STROMBIDIUM CONICUM	96
BSUX	2	3	012077	1130	01	2415	STROMBIDIUM OVALE	425
BSUX	2	3	012077	1130	01	2420	STROMBIDIUM STROBILUS	68
BSUX	2	3	012077	1130	01	2425	STROMBIDIUM SULCATUM	304
BSUX	2	3	012077	1130	01	2430	STROMBIDIUM TYPICUM	76
BSUX	2	3	012077	1130	01	5440	TIARINA FUSUS	28
BSUX	2	3	012077	1130	01	5445	TIARINA GIGANTEA	4
BSUX	2	3	012077	1130	01	1470	TINTINNOPSIS COMPRESSA	8
BSUX	2	3	012077	1130	01	1520	TINTINNOPSIS MINUTA	8
BASS	2	3	012077	1130	14	5155	EPELOTA GEMINARIA	20
BASS	2	3	012077	1130	14	1160	EPIPLUCYCLOIDES ACUTA	4
BASS	2	3	012077	1130	14	2235	LOHMANIELLA OVIFORMIS	136
BASS	2	3	012077	1130	14	5245	MESODINIUM RUBRUM	8
BASS	2	3	012077	1130	14	2400	STROMBIDIUM CALKINSI	16
BASS	2	3	012077	1130	14	2405	STROMBIDIUM CONICUM	64
BASS	2	3	012077	1130	14	2415	STROMBIDIUM OVALE	433
BASS	2	3	012077	1130	14	2420	STROMBIDIUM STROBILUS	16
BASS	2	3	012077	1130	14	2425	STROMBIDIUM SULCATUM	164
BASS	2	3	012077	1130	14	2430	STROMBIDIUM TYPICUM	76
BASS	2	3	012077	1130	14	5440	TIARINA FUSUS	12
BASS	2	3	012077	1130	14	1560	TINTINUS TUBULOSUS	4
BSOY	3	3	012077	0800	01	2235	LOHMANIELLA OVIFORMIS	64
BSOY	3	3	012077	0800	01	2400	STROMBIDIUM CALKINSI	24
BSOY	3	3	012077	0800	01	2405	STROMBIDIUM CONICUM	24
BSOY	3	3	012077	0800	01	2415	STROMBIDIUM OVALE	32
BSOY	3	3	012077	0800	01	2420	STROMBIDIUM STROBILUS	16
BSOY	3	3	012077	0800	01	2425	STROMBIDIUM SULCATUM	116



SACD	S	I	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BSOY	3	3	012077	0800	01	2430	STROMBIDIUM TYPICUM	24
BSOY	3	3	012077	0800	01	1470	TINTINNOPSIS COMPRESSA	12
BAUM	3	3	012077	0800	26	4230	LITHOMELLISA SETOSA	4
BAUM	3	3	012077	0800	26	2235	LOHMANIELLA OVIFORMIS	56
BAUM	3	3	012077	0800	26	2400	STROMBIDIUM CALKINSI	8
BAUM	3	3	012077	0800	26	2405	STROMBIDIUM CONICUM	12
BAUM	3	3	012077	0800	26	2415	STROMBIDIUM OVALE	40
BAUM	3	3	012077	0800	26	2425	STROMBIDIUM SULCATUM	76
BAUM	3	3	012077	0800	26	2430	STROMBIDIUM TYPICUM	4
BAUM	3	3	012077	0800	26	1470	TINTINNOPSIS COMPRESSA	8
BSOZ	1	4	011977	1200	01	5145	DIDINIUM GIGANTEA	4
BSOZ	1	4	011977	1200	01	2235	LOHMANIELLA OVIFORMIS	20
BSOZ	1	4	011977	1200	01	5245	MESODINIUM RUBRUM	4
BSOZ	1	4	011977	1200	01	2400	STROMBIDIUM CALKINSI	84
BSOZ	1	4	011977	1200	01	2405	STROMBIDIUM CONICUM	32
BSOZ	1	4	011977	1200	01	2415	STROMBIDIUM OVALE	12
BSOZ	1	4	011977	1200	01	2420	STROMBIDIUM STROBILUS	36
BSOZ	1	4	011977	1200	01	2425	STROMBIDIUM SULCATUM	232
BSOZ	1	4	011977	1200	01	2430	STROMBIDIUM TYPICUM	8
BSOZ	1	4	011977	1200	01	5440	TIARINA FUSUS	28
BSOZ	1	4	011977	1200	01	5445	TIARINA GIGANTEA	8
BSOZ	1	4	011977	1200	01	1450	TINTINNIDIUM INCERTUM	676
BSOZ	1	4	011977	1200	01	1455	TINTINNOPSIS ACUMINATA	16
BSOZ	1	4	011977	1200	01	1470	TINTINNOPSIS COMPRESSA	52
BSOZ	1	4	011977	1200	01	1520	TINTINNOPSIS MINUTA	16
BAWS	1	4	011977	1200	02	5145	DIDINIUM GIGANTEA	4
BAWS	1	4	011977	1200	02	2235	LOHMANIELLA OVIFORMIS	68
BAWS	1	4	011977	1200	02	5245	MESODINIUM RUBRUM	44
BAWS	1	4	011977	1200	02	2400	STROMBIDIUM CALKINSI	68
BAWS	1	4	011977	1200	02	2405	STROMBIDIUM CONICUM	320
BAWS	1	4	011977	1200	02	2415	STROMBIDIUM OVALE	8

SACD	S	T	DATE	TIME	Z	SPCD	SPECIES NAME	NOPL
BAWS	1	4	011977	1200	02	2420	STROMBIDIUM STROBILUS	120
BAWS	1	4	011977	1200	02	2425	STROMBIDIUM SULCATUM	352
BAWS	1	4	011977	1200	02	2430	STROMBIDIUM TYPICUM	24
BAWS	1	4	011977	1200	02	5440	TIARINA FUSUS	4
BAWS	1	4	011977	1200	02	5445	TIARINA GIGANTEA	28
BAWS	1	4	011977	1200	02	1450	TINTINNIDIUM INCERTUM	456
BAWS	1	4	011977	1200	02	1455	TINTINNOPSIS ACUMINATA	12
BAWS	1	4	011977	1200	02	1470	TINTINNOPSIS COMPRESSA	68
BSPA	2	4	011977	1630	01	5155	EPHELOTA GEMINARIA	16
BSPA	2	4	011977	1630	01	1160	EPIPLOCYCLOIDES ACUTA	4
BSPA	2	4	011977	1630	01	2235	LOHMANIELLA OVIFORMIS	92
BSPA	2	4	011977	1630	01	5245	MESODINIUM RUBRUM	28
BSPA	2	4	011977	1630	01	2395	STROMBIDIUM ACUMINATUM	8
BSPA	2	4	011977	1630	01	2400	STROMBIDIUM CALKINSI	88
BSPA	2	4	011977	1630	01	2405	STROMBIDIUM CONICUM	60
BSPA	2	4	011977	1630	01	2415	STROMBIDIUM OVALE	112
BSPA	2	4	011977	1630	01	2420	STROMBIDIUM STROBILUS	36
BSPA	2	4	011977	1630	01	2425	STROMBIDIUM SULCATUM	188
BSPA	2	4	011977	1630	01	2430	STROMBIDIUM TYPICUM	72
BSPA	2	4	011977	1630	01	5440	TIARINA FUSUS	44
BSPA	2	4	011977	1630	01	1450	TINTINNIDIUM INCERTUM	8
BSPA	2	4	011977	1630	01	1470	TINTINNOPSIS COMPRESSA	12
BAYP	2	4	011977	1630	11	5155	EPHELOTA GEMINARIA	28
BAYP	2	4	011977	1630	11	2235	LOHMANIELLA OVIFORMIS	76
BAYP	2	4	011977	1630	11	5245	MESODINIUM RUBRUM	56
BAYP	2	4	011977	1630	11	2395	STROMBIDIUM ACUMINATUM	4
BAYP	2	4	011977	1630	11	2400	STROMBIDIUM CALKINSI	56
BAYP	2	4	011977	1630	11	2405	STROMBIDIUM CONICUM	32
BAYP	2	4	011977	1630	11	2415	STROMBIDIUM OVALE	88
BAYP	2	4	011977	1630	11	2420	STROMBIDIUM STROBILUS	16
BAYP	2	4	011977	1630	11	2425	STROMBIDIUM SULCATUM	232
BAYP	2	4	011977	1630	11	2430	STROMBIDIUM TYPICUM	32

## APPENDIX M

## ZOOPLANKTON

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TABLE 1

## SAMPLING DATA AND ZOOPLANKTON BIOMASS

Transect	Station	Code	Sampling Depth (m)	Date	Local Time	Volume of Water Filtered (m <sup>3</sup> )	Dry Wt. of Zoopl. (mg/m <sup>3</sup> )	Ash-free Dry Wt. of Zoopl. (mg/m <sup>3</sup> )	Subsample Size
JANUARY/FEBRUARY CRUISE									
I	1	BABE	25 - 0	1/21	06:00-06:04	217.6	19.0	17.6	1/64
		BABI	25 - 0	1/21	06:20-06:24	219.1	24.5	22.2	1/32
	2	BACZ	41 - 0	1/21	13:00-13:06	296.9	27.8	24.6	1/32
		BADD	41 - 0	1/21	13:20-13:25	292.7	21.8	19.7	1/16
	3	BAFA	134 - 0	2/21	21:20-21:35	384.5	24.9	23.1	1/32
		BAFE	134 - 0	2/21	22:30-22:45	376.8	21.1	19.5	1/32
II	1	BAHO	22 - 0	1/11	18:30-18:36	336.5	18.8	17.1	1/16
		BAHQ	22 - 0	1/11	18:40-18:45	381.9	9.3	8.3	1/8
	2	BAJQ	50 - 0	1/11	22:35-23:42	455.0	23.6	21.6	1/16
		BAJS	50 - 0	1/11	22:50-22:58	483.5	21.0	18.5	1/32

TABLE 1. CONT.'D

	3	BALX	130 - 0	2/22	11:30-11:45	325.3	46.2	41.7	1/64
		BALZ	130 - 0	2/22	11:55-12:00	314.6	49.6	45.4	1/64
III	1	BARE	23 - 0	1/20	18:15-18:19	279.4	22.8	21.0	1/16
		BARG	23 - 0	1/20	18:25-18:29	280.5	20.4	18.7	1/16
	2	BATB	64 - 0	1/20	13:30-13:39	533.3	23.5	21.1	1/32
		BATD	64 - 0	1/20	13:45-13:54	555.9	10.4	9.6	1/32
	3	BAVB	106 - 0	1/20	02:35-02:50	346.3	22.6	20.3	1/32
		BAVD	106 - 0	1/20	02:55-03:09	255.2	19.3	18.0	1/16
IV	1	BAWX	28 - 0	1/19	14:00-14:05	392.1	13.9	12.8	1/8
		BAWZ	28 - 0	1/19	14:10-14:15	403.9	13.4	12.5	1/8
	2	BAYY	47 - 0	1/17	21:55-22:02	464.6	14.1	12.3	1/16
		BAZA	47 - 0	1/17	22:10-22:18	499.8	17.2	15.1	1/16
	3	BBAY	90 - 0	1/19	20:20-20:32	665.4	8.7	8.0	1/16
		BBBA	90 - 0	1/19	20:40-20:52	605.6	10.8	9.8	1/16
MARCH CRUISE									
II	1	BDKV	21-0	3/15	05:40-05:46	423.7	24.4	22.2	1/32
		BDKX	21-0	3/15	05:50-05:56	344.1	24.9	22.9	1/16

TABLE 1. CONT.'D

	2	BDMF	50-0	3/14	14:20-14:26	170.6	39.5	36.5	1/16
		BDMH	50-0	3/14	14:30-14:35	140.4	35.2	32.3	1/16
	3	BDNK	130-0	3/14	20:05-20:20	592.7	26.6	22.9	1/32
		BDNM	130-0	3/14	20:30-20:44	587.3	31.2	28.0	1/32
APRIL CRUISE									
II	1	BGOA	23-0	4/21	06:11-06:17	267.8	31.5	23.8	1/16
		BGOC	21-0	4/21	06:24-06:29	257.1	34.4	26.3	1/16
	2	BGPF	20-0	4/21	03:11-03:18	402.2	19.7	15.6	1/16
		BGPH	22-0	4/21	03:25-03:32	444.6	24.3	18.3	1/32
	3	BGQN	90-0	4/20	21:17-21:32	835.5	8.6	7.9	1/16
		BGQP	80-0	4/20	21:37-21:51	852.3	7.8	7.2	1/16
MAY/JUNE CRUISE									
I	1	BIYJ	17-0	5/20	19:58-20:00	181.0	79.7	69.0	1/8
		BIYL	17-0	5/20	20:08-20:10	160.5	67.2	57.3	1/8
	2	BJAL	42-0	5/20	14:33-14:38	328.7	58.0	50.0	1/16
		BJAN	42-0	5/20	14:44-14:50	314.9	76.0	66.4	1/32

TABLE 1. CONT.'D

	3	BKCO	134-0	5/19	21:28-21:42	695.3	6.1	5.5	1/16
		BKCQ	134-0	5/19	21:52-22:07	656.2	5.7	5.3	1/32
II	1	BJES	21-0	5/19	05:59-06:05	199.3	50.9	44.8	1/16
		BJEU	21-0	5/19	06:09-06:15	181.8	52.8	45.9	1/16
	2	BJGT	49-0	5/19	12:53-13:00	444.4	54.8	46.4	1/32
		BJGX	49-0	5/19	13:19-13:26	451.1	52.7	44.4	1/32
	3	BJIY	130-0	5/18	21:19-21:34	776.0	12.3	11.1	1/32
		BJJA	130-0	5/18	21:39-21:54	757.8	16.6	14.9	1/32
III	1	BJLX	25-0	5/17	16:55-17:02	393.8	37.9	32.7	1/32
		BJLZ	25-0	5/17	17:07-17:13	349.7	29.3	25.0	1/32
	2	BJOA	64-0	5/17	21:51-22:00	449.3	29.1	25.3	1/32
		BJNY	64-0	5/17	21:36-21:45	463.7	27.8	24.4	1/32
	3	BJQC	106-0	5/18	14:20-14:32	632.1	15.6	13.7	1/32
		BJQE	106-0	5/18	14:37-14:49	615.6	16.1	14.1	1/16
IV	1	BJSC	31-0	5/16	22:34-22:41	416.9	38.4	34.1	1/64
		BJKK	31-0	5/16	22:44-22:51	408.7	44.0	39.5	1/32

TABLE 1. CONT.'D

	2	BJUE	46-0	5/16	19:22-19:29	334.1	28.2	26.1	1/32
		BJUG	46-0	5/16	19:34-19:40	327.6	43.2	39.7	1/32
	3	BJWG	90-0	5/16	13:20-13:30	494.2	14.6	13.4	1/8
		BJWE	90-0	5/16	13:05-13:15	522.4	14.2	12.5	1/8
JULY CRUISE									
II	1	BLEZ	22-0	7/6	08:44-08:50	365.4	17.3	15.9	1/16
		BLFB	22-0	7/6	08:54-09:00	333.1	13.5	12.3	1/8
	2	BLGQ	49-0	7/7	01:26-01:33	473.8	9.8	8.8	1/16
		BLGS	49-0	7/7	01:37-01:44	467.1	8.9	7.9	1/8
	3	BLIL	130-0	7/6	22:23-23:41	469.3	12.0	10.9	1/8
		BLIP	130-0	7/6	22:59-23:14	415.7	10.4	9.3	1/8
AUGUST CRUISE									
	1	BMQU	21-0	8/4	08:43-08:49	447.7	9.5	8.8	1/8
		BMQW	21-0	8/4	08:53-08:59	460.0	13.7	12.9	1/8
	2	BMSP	49-0	8/4	13:13-13:20	198.1	8.4	7.7	1/8
		BMSR	49-0	8/4	13:24-13:31	197.4	7.2	6.3	1/8



TABLE 1. CONT. 'D

	3	BMUK	130-0	8/4	20:35-20:49	379.4	5.8	5.3	1/8
		BMUM	130-0	8/4	20:53-21:08	380.0	5.0	4.6	1/8
SEPTEMBER CRUISE									
I	1	BOBQ	8-0	9/11	21:48-21:54	376.9	66.5	62.5	1/16
	1	BOBS	8-0	9/11	22:03-22:09	358.0	56.6	52.2	1/16
	2	BODQ	27-0	9/11	11:17-11:23	285.6	15.5	12.7	1/8
	2	BODU	27-0	9/11	11:42-11:48	335.9	16.6	14.5	1/8
	3	BOFS	110-0	9/10	22:28-22:43	779.2	4.2	3.5	1/8
	3	BOFW	75-0	9/10	23:10-23:25	895.5	5.0	4.0	1/8
II	1	BOIH	8-0	9/10	03:21-03:27	351.3	13.2	11.4	1/8
	1	BOIL	12-0	9/10	03:45-03:51	334.5	13.2	11.6	1/8
	2	BOKJ	37-0	9/10	12:23-12:30	410.1	12.4	11.0	1/8
	2	BOKL	35-0	9/10	12:38-12:45	404.9	10.0	8.4	1/8
	3	BOMN	85-0	9/9	18:57-19:10	754.9	5.1	4.5	1/8
	3	BOMR	76-0	9/9	19:36-19:51	616.4	9.8	8.2	1/8
III	1	BOPJ	11-0	9/8	13:08-13:14	436.9	2.8	1.9	1/8
	1	BOPL	12-0	9/8	13:20-13:26	446.8	3.8	3.3	1/8

TABLE 1. CONT.'D

	2	BORL	35-0	9/8	18:39-18:48	510.5	10.7	8.4	1/16
	2	BORN	33-0	9/8	18:55-19:04	485.7	9.2	6.3	1/16
	3	BOTN	60-0	9/9	11:53-12:05	637.0	9.4	7.8	1/8
	3	BOTP	58-0	9/9	12:15-12:27	644.0	7.5	6.4	1/8
IV	1	BOVK	14-0	9/7	19:21-19:29	350.5	19.7	16.3	1/16
	1	BOVI	14-0	9/7	19:07-19:15	444.9	13.5	11.6	1/16
	2	BOXK	26-0	9/7	14:45-14:52	506.9	2.6	1.8	1/8
	2	BOXM	25-0	9/7	14:56-15:03	507.2	1.1	0.2	1/8
	3	BOZK	64-0	9/8	10:00-10:10	614.3	5.7	5.0	1/8
	3	BOZM	54-0	9/8	10:18-10:28	577.8	4.8	4.3	1/8
NOVEMBER CRUISE									
II	1	BSJH	12-0	11/6	08:41-08:47	279.3	36.3	30.1	1/16
		BSJJ	12-0	11/6	08:57-09:03	298.0	46.1	40.5	1/16
	2	BSKY	25-0	11/5	11:55-12:02	443.6	15.6	14.4	1/16
		BSLA	25-0	11/5	12:08-12:15	432.0	17.4	16.0	1/16
	3	BSMU	53-0	11/5	20:00-20:36	1094.2	2.6	2.2	1/16
		BSMW	53-0	11/5	20:45-20:59	1197.6	2.6	2.2	1/8
DECEMBER CRUISE									
II	1	BTXO	10-0	12/3	16:20-16:26	230.2	19.9	16.9	1/8
		BTXQ	22-0	12/3	16:31-16:37	233.6	15.3	12.9	1/8

TABLE 1. CONT.'D

2	BTZH	26-0	12/2	13:23-13:30	455.5	15.6	14.2	1/8
	BTZL	26-0	12/2	13:50-13:57	362.1	18.0	16.1	1/8
3	BUBC	78-0	12/2	18:50-19:06	692.1	13.7	12.1	1/8
	BUBE	82-0	12/2	19:12-19:27	697.5	13.2	11.5	1/8

TABLE 2

SIZE OF SUBSAMPLE EXAMINED AND NUMBER OF ZOOPLANKTERS FOUND IN SUBSAMPLE

JANUARY/FEBRUARY 1977 CRUISE

Transect	Station	Code	Subsample Size	Number per Subsample
I	1	BABE	1/128	3130
		BABI	1/128	2957
	2	BACZ	1/256	2516
		BADD	1/256	1588
	3	BAFA	1/256	2016
		BAFE	1/128	3378
II	1	BAHO	1/128	4818
		BAHQ	1/128	3867
	2	BAJQ	1/256	3325
		BAJS	1/256	3461
	3	BALX	1/512	2384
		BALZ	1/512	2553

TABLE 2 CONT. 'D

III	1	BARE	1/256	3862
		BARG	1/128	4623
	2	BATB	1/256	2974
		BATD	1/128	2289
	3	BAVB	1/128	3854
		BAVD	1/128	2941
IV	1	BAWX	1/256	2981
		BAWZ	1/256	3906
	2	BAYY	1/256	3437
		BAZA	1/512	2004
	3	BBAY	1/128	3087
		BBBA	1/256	1886
MARCH CRUISE				
II	1	BDKV	1/256	2038
		BDKX	1/256	2104
	2	BDMF	1/128	3063
		BDMH	1/128	2697
	3	BDNK	1/256	2793
		BDNM	1/256	1907

TABLE 2 CONT. 'D

APRIL CRUISE

II	1	BGOA	1/512	2527
		BGOC	1/512	2722
	2	BGPF	1/256	3418
		BGPH	1/512	2207
	3	BGQN	1/256	2061
		BGQP	1/128	2680

MAY/JUNE CRUISE

I	1	BIYJ	1/128	3101
		BIYL	1/128	2004
	2	BJAL	1/256	4116
		BJAN	1/256	4467
	3	BKCO	1/128	3186
		BKCQ	1/256	3225
II	1	BJES	1/512	4165
		BJEU	1/1024	2017
	2	BJGT	1/1024	2975
		BJGX	1/1024	2679

TABLE 2 CONT.'D

	3	BJIY	1/256	2275
		BJJA	1/512	3185
III	1	BJLX	1/1024	2756
		BJLZ	1/512	4478
	2	BJOA	1/256	3299
		BJNY	1/256	5515
	3	BJQC	1/128	5832
		BJQE	1/128	3868
IV	1	BJSC	1/512	4206
		BJKK	1/512	2764
	2	BJUE	1/256	4031
		BJUG	1/256	2501
	3	BJWG	1/64	4431
		BJWE	1/128	2790
		JULY CRUISE		
II	1	BLEZ	1/256	1382
		BLFB	1/256	2534
	2	BLGQ	1/256	1393
		BLGS	1/128	2516

TABLE 2 CONT. 'D

	3	BLIL	1/256	1675
		BLIP	1/128	2105
AUGUST CRUISE				
II	1	BMQU	1/512	1095
		BMQW	1/256	1831
	2	BMSP	1/128	1453
		BMSR	1/128	1993
	3	BMUK	1/256	2199
		BMUM	1/128	2884
SEPTEMBER CRUISE				
I	1	BOBQ	1/1024	2814
		BOBS	1/1024	2525
	2	BODQ	1/256	1750
		BODU	1/512	1226
	3	BOFS	1/512	2772
		BOFW	1/512	1344



TABLE 2 CONT. 'D

II	1	BOIH	1/256	2725
		BOIL	1/256	2214
	2	BOKJ	1/256	2573
		BOKL	1/512	2679
	3	BOMN	1/256	2586
		BOMR	1/512	2729
III	1	BOPJ	1/64	2107
		BOPL	1/128	1988
	2	BORL	1/128	3144
		BORN	1/256	1750
	3	BOTN	1/256	2053
		BOTP	1/256	2243
IV	1	BOVI	1/256	2025
		BOVK	1/256	2034
	2	BOXK	1/64	3504
		BOXM	1/64	3357
	3	BOZK	1/128	2879
		BOZM	1/256	1493

TABLE 2 CONT. 'D

NOVEMBER CRUISE

II	1	BSJH	1/256	1918
		BSJJ	1/512	1681
	2	BSKY	1/256	2757
		BSLA	1/512	1567
	3	BSMU	1/256	2314
		BSMW	1/256	2375

DECEMBER CRUISE

II	1	BXTO	1/256	1692
		BXTQ	1/256	1600
	2	BXZH	1/512	1442
		BXZL	1/256	1818
	3	BUBC	1/256	2231
		BUBE	1/256	1897

TABLE 3  
 NUMERICAL ABUNDANCE OF ZOOPLANKTON PER M<sup>3</sup>  
 MEAN OF TWO SAMPLES PER STATION  
 JANUARY/FEBRUARY CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	1784.4	1778.7	1244.9	1564.4	1851.6	3953.6
Copepoda	898.2	754.7	997.5	462.7	758.1	1410.4
Others	886.2	1024.1	247.5	1101.7	1093.5	2543.2
Foraminifera	0	0	0	0.2	2.3	0
Cladocera						
<u>Penilia</u>	0	0	0	0.3	0.3	0
Ostracoda						
<u>Euconchoecia</u>	308.1	761.9	64.7	862.0	877.1	2154.9
<u>Conchoecia</u>	0	0	8.6	0	1.4	0.8
Mysidacea	12.6	0	0.2	0.2	0.5	0
Amphipoda	4.7	10.0	5.6	11.2	6.8	50.5
Euphausiacea	0	0	2.4	0.2	0.8	0
<u>Lucifer</u>	0	7.4	1.7	0	3.3	0
Other crustaceans	4.7	0.5	0	0	0	0
Barnacle nauplii	105.1	0.5	0	2.2	0	0
Barnacle cypris	148.7	3.0	0	15.5	0.8	10.3
Other nauplii	0.6	1.8	54.3	2.0	3.8	30.4
Decapod zoea	5.9	4.3	0.4	0.2	2.8	0
Decapod megalopa	0.3	0.9	0	0	0.6	0.8
Decapod larvae	1.2	4.8	5.0	0.7	4.6	6.4
Stomatopod larvae	0	0	0	0	0.3	0
Other crustacean larvae	2.4	8.2	4.8	0	11.7	13.6

TABLE 3. CONT.'D

Medusae	113.4	46.7	30.3	79.1	34.2	39.3
Polychaeta	2.6	3.5	1.9	5.2	9.8	14.4
Gastropod larvae	57.8	11.4	7.3	16.1	8.5	22.4
Heteropoda	0	0.5	0.8	0	0	0
Pteropoda	0	3.5	1.2	0	0.3	0.8
Bivalve larvae	13.5	27.4	2.2	33.1	15.0	26.4
Chaetognatha	100.1	53.7	26.2	64.4	80.8	40.0
Larvacea	2.4	57.1	25.2	7.8	16.7	104.9
<u>Doliolum</u>	1.5	16.5	3.9	0.8	5.6	21.5
<u>Salpa</u>	0	0	1.2	0	3.1	4.9
Echinoderm larvae	0	0.5	0	0.5	2.5	0.8
Others	0.9	0	0	0	0	0

TABLE 3. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	2831.2	977.2	1450.4	2210.3	1973.4	695.5
Copepoda	994.4	467.9	883.5	1318.3	890.1	516.0
Others	1836.8	509.3	566.9	892.0	1083.3	179.5
Cladocera						
<u>Penilia</u>	0	0.2	0.4	0.3	1.1	0
Ostracoda						
<u>Euconchoecia</u>	1279.0	371.7	324.4	701.1	814.6	9.8
<u>Conchoecia</u>	0	3.2	7.6	0	0.8	13.5
Mysidacea	0.5	0.2	0.4	0	1.1	0
Amphipoda	54.9	3.7	3.3	8.7	8.0	2.8
Euphausiacea	0	0	0.3	0	0.3	2.6
<u>Lucifer</u>	0.5	4.9	6.0	0.6	4.5	1.0
Other crustaceans	0	0	0	0	0.5	0
Barnacle nauplii	93.5	0	0.4	0.3	0	0.9
Barnacle cypris	88.7	0	0.7	0	8.1	1.0
Other nauplii	0	1.7	2.7	2.5	10.8	5.7
Decapod zoea	1.4	1.3	0.3	2.9	2.7	1.0
Decapod megalopa	0	0	0.3	0	0	1.2
Decapod larvae	1.1	3.8	2.1	1.0	1.6	1.9
Other crustacean larvae	0	3.0	9.0	1.0	7.9	6.9
Medusae	75.2	28.1	44.4	46.6	43.1	18.0
Polychaeta	8.7	1.5	5.5	0	12.4	2.9
Gastropod larvae	15.1	4.4	13.9	10.6	8.0	6.4
Heteropoda	0	0.3	0	0.6	0.3	0.9
Pteropoda	0	1.5	1.2	0.3	3.2	0.7
Bivalve larvae	27.7	8.5	15.0	18.3	23.8	4.0

TABLE 3. CONT.'D

Chaetognatha	46.0	29.0	55.5	79.5	53.7	48.1
Larvacea	12.6	36.6	65.3	16.1	59.9	38.7
<u>Doliolum</u>	2.1	4.2	3.9	1.0	11.8	8.2
<u>Salpa</u>	0	1.0	2.8	0	0	3.3
Echinoderm larvae	0.9	0.4	1.8	0.6	4.5	0
Others	0	0	0	0	0.3	0

TABLE 3. CONT.'D

## MARCH CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	1398.4	2378.5	1018.8
Copepoda	1120.1	934.3	533.5
Others	278.3	1444.3	485.3
Cladocera			
<u>Podon</u>	0	0.8	0.2
Ostracoda			
<u>Euconchoecia</u>	45.9	792.8	293.3
<u>Conchoecia</u>	0	0	2.4
Mysidacea	2.7	0	0.5
Amphipoda	38.6	64.8	29.6
Euphausiacea	0	0.5	0.9
<u>Lucifer</u>	0	2.0	7.4
Other crustaceans	0.4	0	0
Barnacle nauplii	4.2	0	0
Barnacle cypris	11.4	2.8	6.5
Other nauplii	0.7	4.7	1.3
Decapod zoea	1.1	2.1	2.2
Decapod megalopa	0	0	0.4
Decapod larvae	0	3.9	1.8
Other crustacean larvae	0.3	0.4	3.7
Medusae	13.9	55.3	22.6
Polychaeta	4.9	1.3	2.0
Gastropod larvae	26.9	4.0	7.6
Heteropoda	0	0.8	0.5
Pteropoda	0	0	1.4

TABLE 3. CONT.'D

Bivalve larvae	25.3	40.0	15.9
Chaetognatha	49.4	63.4	47.5
Larvacea	51.5	305.7	5.5
<u>Doliolum</u>	0.9	96.7	32.2
Other urochordates	0.4	1.8	0
Echinoderm larvae	0	0.5	0.5
Others	0	0.5	0



TABLE 3. CONT.'D

APRIL CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	5126.2	2035.5	490.7
Copepoda	2304.8	853.0	335.1
Others	2821.4	1182.5	155.6
Cladocera			
<u>Evadne</u>	2.9	36.1	0.8
<u>Penilia</u>	4.9	5.8	0
<u>Podon</u>	9.8	7.0	0.5
Ostracoda			
<u>Euconchoecia</u>	0	505.6	13.1
<u>Conchoecia</u>	0	0	9.2
Mysidacea	1.0	0.6	0.1
Amphipoda	6.9	68.8	8.8
Euphausiacea	0	0	0.1
<u>Lucifer</u>	1.0	1.8	1.1
Barnacle nauplii	0	1.2	0.2
Barnacle cypris	0	4.5	0.2
Other nauplii	2.0	8.5	3.0
Decapod zoea	13.7	15.2	2.4
Decapod megalopa	0	0.9	0
Decapod larvae	3.9	5.0	0.9
Stomatopod larvae	1.0	0.3	0.3
Other crustacean larvae	12.8	6.4	5.2
Medusae	102.1	18.7	8.2
Polychaeta	3.9	9.7	1.4
Gastropod larvae	49.0	50.5	21.1
Heteropoda	1.0	1.5	0.1

TABLE 3. CONT.'D

Pteropoda	2.0	11.4	1.7
Bivalve larvae	2298.3	264.4	4.3
Chaetognatha	193.2	70.9	53.6
Larvacea	112.0	84.8	15.9
<u>Doliolum</u>	0	0.6	1.3
<u>Salpa</u>	0	0	2.0
Echinoderm larvae	0	2.3	0.1

TABLE 3. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	3791.2	6837.1	607.8	11030.4	6468.2	913.2
Copepoda	2832.6	1702.9	291.8	4745.5	1747.5	355.0
Others	958.6	5134.3	316.0	6284.9	4720.7	558.2
Cladocera						
<u>Penilia</u>	8.0	17.6	0.1	4165.8	153.0	0.3
<u>Podon</u>	0	11.9	0	545.2	23.9	0
Ostracoda						
<u>Euconchoecia</u>	313.9	4377.0	28.2	67.6	3006.5	192.3
<u>Conchoecia</u>	0	0	11.0	0	0	11.4
Mysidacea	0	1.6	0.4	0	2.3	0.3
Amphipoda	30.7	106.4	5.2	13.6	119.9	11.4
Euphausiacea	0	0	.8	0	0	2.0
<u>Lucifer</u>	68.7	4.7	1.1	23.6	22.9	1.2
Other crustaceans	0	0	0.1	0	0	0
Barnacle nauplii	0	0	0	13.1	1.2	0.3
Barnacle cypris	5.8	23.7	16.2	30.0	1.2	18.3
Other nauplii	0	0.8	0.6	0	4.6	0.7
Decapod zoea	52.9	30.4	4.4	52.3	75.4	4.0
Decapod megalopa	1.4	0	0.6	2.8	1.2	1.2
Decapod larvae	25.3	7.2	1.4	44.1	52.7	4.5
Stomatopod larvae	2.2	3.9	0.6	0	5.7	0.5
Other crustacean larvae	7.8	11.0	1.1	81.3	51.7	5.7
Medusae	9.6	54.4	16.7	27.2	6.8	16.7
Polychaeta	0.7	3.1	2.2	24.9	8.0	2.0
Gastropod larvae	43.7	138.1	6.2	158.4	171.2	15.4

TABLE 3. CONT.'D

Heteropoda	12.7	4.1	0.3	0	18.3	0.3
Pteropoda	76.8	89.3	6.5	15.7	404.8	15.4
Bivalve larvae	4.6	21.8	3.6	438.9	44.5	5.2
Chaetognatha	117.2	180.5	184.4	302.1	474.0	229.7
Larvacea	176.3	29.9	19.1	261.3	29.9	7.4
<u>Doliolum</u>	0	15.3	4.6	14.1	18.4	11.2
<u>Salpa</u>	0	0.8	0.5	0	21.6	0.5
Echinoderm larvae	0	0.8	0.1	2.8	1.2	0.3

TABLE 3. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	6861.4	3392.5	992.6	6045.3	3498.7	1265.5
Copepoda	1628.1	1272.6	460.5	2354.2	1459.7	740.0
Others	5179.3	2119.9	532.1	3691.2	2039.1	525.5
Cladocera						
<u>Penilia</u>	3581.0	1014.4	31.8	1920.7	4.2	1.1
<u>Podon</u>	193.9	178.6	5.8	352.7	9.7	0
Ostracoda						
<u>Euconchoecia</u>	248.0	483.2	189.9	669.2	1273.8	177.0
<u>Conchoecia</u>	0	1.1	5.5	0	0	4.9
Mysidacea	0	0	0.1	0.6	0.8	0.9
Amphipoda	60.1	29.3	13.5	45.3	34.4	17.8
Euphausiacea	0	0	0.2	0	0	0
<u>Lucifer</u>	12.1	2.0	3.2	22.4	29.5	7.6
Barnacle nauplii	0.7	0.3	0.1	1.3	0	0.1
Barnacle cypris	17.6	5.9	4.9	3.1	4.3	16.4
Other nauplii	9.8	0.8	1.0	5.0	0.4	2.1
Decapod zoea	31.1	18.8	10.5	61.0	6.6	6.9
Decapod megalopa	1.5	0.3	1.5	0	0	1.4
Decapod larvae	38.0	13.5	8.9	27.9	18.6	14.3
Stomatopod larvae	2.0	0.3	2.1	12.4	0.8	1.6
Other crustacean larvae	32.4	12.1	7.7	60.4	4.2	6.9
Medusae	34.3	32.8	30.5	33.0	99.0	48.6
Polychaeta	0	6.7	2.3	21.6	10.1	1.7
Gastropod larvae	107.9	83.7	11.9	50.9	24.8	10.3
Heteropoda	5.1	4.2	0.8	0	2.3	0.2
Pteropoda	17.2	5.3	12.3	14.2	41.1	12.6
Cephalopoda	0.7	0	0.1	0	0	0

TABLE 3. CONT.'D

Bivalve larvae	422.3	42.6	2.7	80.3	16.7	4.6
Chaetognatha	320.1	134.5	147.4	160.2	285.5	150.4
Larvacea	2.0	25.2	5.7	61.3	84.2	32.3
<u>Doliolum</u>	21.8	19.2	14.0	87.6	82.6	4.7
<u>Salpa</u>	3.9	0	11.2	0	0	0
Echinoderm larvae	15.7	5.0	6.0	0	4.7	1.0
Others	0	0	0.3	0	0.8	0

TABLE 3. CONT. 'D

## JULY CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	1457.9	721.1	780.9
Copepoda	1051.8	494.8	522.1
Others	406.0	226.3	258.8
Cladocera			
<u>Penilia</u>	4.8	5.3	2.6
<u>Podon</u>	0.4	11.2	12.3
Ostracoda			
<u>Euconchoecia</u>	192.4	97.1	93.9
<u>Conchoecia</u>	0	0	5.5
Amphipoda	1.9	2.2	7.4
<u>Lucifer</u>	2.1	1.1	2.8
Barnacle nauplii	0	0.3	0.3
Barnacle cypris	0	5.5	1.3
Other nauplii	0	0	0.9
Decapod zoea	7.4	2.0	0.7
Decapod megalopa	0	0	0.3
Decapod larvae	1.5	1.9	2.5
Stomatopod larvae	0.7	0.7	0.5
Other crustacean larvae	0	0.8	5.3
Medusae	12.0	25.2	18.9
Polychaeta	3.4	2.2	2.4
Gastropod larvae	37.1	8.8	14.5
Heteropoda	1.5	0.3	0.3
Pteropoda	6.7	9.7	5.2
Bivalve larvae	0.4	0.5	1.9

TABLE 3. CONT.'D

Chaetognatha	40.7	25.6	37.2
Larvacea	92.7	22.1	31.0
<u>Doliolum</u>	0	1.8	6.2
<u>Salpa</u>	0	1.6	1.3
Echinoderm larvae	0.4	0.5	3.6



TABLE 3. CONT.'D

## AUGUST CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	1135.6	1115.6	856.7
Copepoda	1001.7	769.1	474.6
Others	133.9	346.5	382.1
Cladocera			
<u>Evadne</u>	0	5.8	0.2
<u>Penilia</u>	0	0	10.4
<u>Podon</u>	42.4	49.2	14.8
Ostracoda			
<u>Euconchoecia</u>	0	14.6	20.4
<u>Conchoecia</u>	0	0	20.4
Mysidacea	0	0	0.2
Amphipoda	0.9	1.9	1.0
<u>Lucifer</u>	0	1.3	1.2
Other nauplii	0.6	0	0.5
Decapod zoea	3.4	1.0	0.2
Decapod megalopa	0	0	0.2
Decapod larvae	1.1	1.9	0.7
Stomatopod larvae	0.6	1.0	0
Other crustacean larvae	0	0.3	1.9
Medusae	1.7	16.8	24.3
Polychaeta	1.7	1.3	1.9
Gastropod larvae	24.1	5.2	5.1
Heteropoda	0.9	0	0.2
Pteropoda	3.1	7.8	1.0
Bivalve larvae	1.7	0.3	2.2

TABLE 3. CONT.'D

Chaetognatha	17.5	34.7	43.8
Larvacea	26.3	172.3	124.2
<u>Doliolum</u>	7.4	1.3	14.8
<u>Salpa</u>	0	26.9	90.0
Echinoderm larvae	0	2.6	2.7
Others	0	0.3	0

TABLE 3. CONT.'D

## SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	7433.9	1718.7	1294.9	1840.1	2496.9	1571.9
Copepoda	6743.3	1066.0	918.7	1411.4	1744.2	995.2
Others	690.5	652.7	376.2	428.7	752.7	576.7
Cladocera						
<u>Penilia</u>	0	0.8	5.7	0	0	9.5
<u>Podon</u>	0	0	0.6	0	0	2.8
Ostracoda						
<u>Euconchoecia</u>	0	49.3	139.9	0.4	2.8	292.2
<u>Conchoecia</u>	0	0	8.5	0	0	3.6
Mysidacea	2.8	0	0	1.5	0	0
Amphipoda	1.4	5.8	2.3	1.1	24.3	6.3
Euphausiacea	0	0	0	0	0	0.2
<u>Lucifer</u>	62.6	3.5	0	0.4	34.7	1.8
Other nauplii	2.9	3.6	1.3	1.5	1.3	0
Decapod zoea	5.6	19.1	4.1	1.9	159.0	21.8
Decapod megalopa	0	0	0.3	0	3.5	0.2
Decapod larvae	33.4	16.2	5.3	3.0	14.8	7.5
Stomatopod larvae	0	0.4	0.6	0.7	1.9	0
Other crustacean larvae	329.3	5.7	7.8	211.6	13.6	15.0
Medusae	8.3	19.2	12.9	7.5	25.2	8.3
Polychaeta	1.4	3.5	7.7	5.9	2.2	1.7
Gastropod larvae	24.9	371.8	23.3	19.6	254.3	11.5
Heteropoda	0	3.5	0.7	1.1	0.6	0.4
Pteropoda	0	3.9	2.4	0.4	5.7	2.2
Cephalopoda	0	0	0	0	0	0.4
Bivalve larvae	113.1	20.0	14.7	44.9	10.4	13.2

TABLE 3. CONT.'D

Chaetognatha	75.6	34.4	42.2	108.7	103.1	47.3
Larvacea	29.3	84.2	77.8	18.5	43.6	118.1
<u>Doliolum</u>	0	1.5	17.8	0	4.4	4.7
Other urochordates	0	0	0	0	0	6.6
Echinoderm larvae	0	6.1	0.3	0	47.4	1.3

TABLE 3. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	439.1	855.3	858.3	1320.1	433.9	630.7
Copepoda	246.4	467.8	539.5	672.3	130.6	483.9
Others	192.7	387.6	318.8	647.8	303.3	146.8
Cladocera						
<u>Penilia</u>	0	0.1	1.6	0	0	2.4
<u>Podon</u>	0	0.1	0.2	0.3	1.0	3.6
Ostracoda						
<u>Euconchoecia</u>	0	80.6	138.1	1.4	0	48.4
<u>Conchoecia</u>	0	0	0.2	0	0	0.2
Mysidacea	0	0	0	1.5	0	0
Amphipoda	1.2	8.0	5.6	19.5	0.9	1.6
<u>Lucifer</u>	15.8	4.6	0	71.2	18.8	0.4
Barnacle nauplii	0.1	0	0	0.4	0.9	0
Barnacle cypris	0	0	0	0.3	0	0
Other nauplii	2.4	0.9	0	4.8	0.4	0.1
Decapod zoea	2.7	16.0	4.4	9.9	26.1	0.3
Decapod megalopa	0	0	0	0	0.3	0
Decapod larvae	7.3	5.3	2.8	69.3	3.8	2.5
Stomatopod larvae	0	0	0	0.4	0.7	0.8
Other crustacean larvae	123.2	30.6	0.2	204.2	55.6	1.8
Medusae	5.5	12.5	5.2	16.5	5.6	10.8
Polychaeta	0	12.9	2.4	8.7	13.5	2.4
Gastropod larvae	4.3	15.1	16.4	17.7	82.5	10.8
Heteropoda	0.2	0	0.2	0	0.1	0
Pteropoda	0	8.9	4.0	0	3.3	3.9
Bivalve larvae	7.7	24.6	7.6	90.6	32.1	5.9
Chaetognatha	18.8	83.5	31.4	91.6	46.8	7.3
Larvacea	2.9	82.3	87.1	22.9	9.6	36.5
<u>Doliolum</u>	0	0.9	7.8	0	0.3	3.7

TABLE 3. CONT.'D

<u>Salpa</u>	0	0	0	0	0	1.4
Echinoderm larvae	0.6	0.6	3.0	16.4	0.9	1.9

TABLE 3. CONT.'D

## NOVEMBER CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	2323.1	1724.1	524.5
Copepoda	2044.3	1420.3	367.7
Others	278.8	303.9	156.8
Cladocera			
<u>Penilia</u>	0.5	1.2	0
<u>Podon</u>	0	21.4	0.1
Ostracoda			
<u>Euconchoecia</u>	3.2	29.8	29.7
<u>Conchoecia</u>	0	0	1.9
Mysidacea	0	0	0.1
Amphipoda	0.9	17.5	2.4
Euphausiacea	0	0.3	0
<u>Lucifer</u>	9.2	0.3	0
Other crustaceans	0	0	0.1
Other nauplii	42.4	0	0.2
Decapod zoea	0.9	7.3	1.0
Decapod larvae	39.5	3.5	0.4
Stomatopod larvae	0	0	0.1
Other crustacean larvae	27.0	1.7	6.8
Medusae	8.2	9.3	6.2
Polychaeta	6.6	8.3	1.2
Gastropod larvae	2.3	7.9	4.8
Heteropoda	0	0.6	0
Pteropoda	0.9	10.2	2.1

TABLE 3. CONT.'D

Bivalve larvae	4.1	11.2	2.7
Chaetognatha	60.1	40.0	15.2
Larvacea	73.0	129.6	74.3
<u>Doliolum</u>	0	3.8	1.4
<u>Salpa</u>	0	0	1.4
Echinoderm larvae	0	0	4.6



TABLE 3. CONT.'D

## DECEMBER CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	1817.5	1453.1	760.7
Copepoda	1489.1	767.3	369.7
Others	328.5	685.8	391.1
Cladocera			
<u>Penilia</u>	9.4	5.6	5.0
Ostracoda			
<u>Euconchoecia</u>	88.7	418.5	171.8
<u>Conchoecia</u>	0	0.4	10.1
Mysidacea	0	0	0.7
Amphipoda	2.2	10.3	16.4
Euphausiacea	0	0	0.2
<u>Lucifer</u>	1.1	5.2	4.1
Other nauplii	2.2	0.7	0.9
Decapod zoea	0.5	9.8	7.2
Decapod larvae	2.7	7.0	3.3
Stomatopod larvae	0	0.4	0.4
Other crustacean larvae	1.7	1.7	6.5
Medusae	8.3	5.2	11.8
Polychaeta	7.7	1.7	2.4
Gastropod larvae	3.3	27.8	16.6
Heteropoda	0.5	0.9	0.6
Pteropoda	0	9.9	10.0
Cephalopoda	0	0	0.2
Bivalve larvae	21.0	22.0	23.6

TABLE 3. CONT.'D

Chaetognatha	62.8	36.8	28.9
Larvacea	113.5	110.4	55.8
<u>Doliolum</u>	2.2	1.4	9.8
<u>Salpa</u>	0.6	2.2	0
Echinoderm larvae	0	7.9	5.0

TABLE 4  
 PERCENTAGE COMPOSITION OF ZOOPLANKTON  
 MEAN OF TWO SAMPLES PER STATION  
 JANUARY/FEBRUARY CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Copepoda %	50.7	39.9	80.0	29.3	40.9	35.5
Others %	49.4	60.1	20.1	70.7	59.1	64.5
Foraminifera	0	0	0	+	0.1	0
Cladocera						
<u>Penilia</u>	0	0	0	+	+	0
Ostracoda						
<u>Euconchoecia</u>	17.3	45.6	5.3	55.5	47.4	54.7
<u>Conchoecia</u>	0	0	0.7	0	0.1	+
Mysidacea	0.7	0	+	+	+	0
Amphipoda	0.3	0.6	0.5	0.7	0.4	1.3
Euphausiacea	0	0	0.2	+	+	0
<u>Lucifer</u>	0	0.5	0.2	0	0.2	0
Other crustaceans	0.3	+	0	0	0	0
Barnacle nauplii	5.9	0.1	0	0.1	0	0
Barnacle cypris	8.2	0.2	0	0.9	+	0.3
Other nauplii	0.1	0.1	4.4	0.1	0.2	0.8
Decapod zoea	0.4	0.3	+	+	0.1	0
Decapod megalopa	+	0.1	0	+	+	+
Decapod larvae	0.1	0.3	0.4	+	0.3	0.2
Stomatopod larvae	0	0	0	0	+	0
Other crustacean larvae	0.1	0.5	0.4	0	0.6	0.3
Medusae	6.4	2.5	2.5	4.8	1.9	1.0

TABLE 4. CONT.'D

Polychaeta	0.2	0.2	0.2	0.3	0.5	0.4
Gastropod larvae	3.3	0.8	0.6	1.0	0.5	0.6
Heteropoda	0	0.1	0.1	0	0	0
Pteropoda	0	0.2	0.1	0	+	+
Bivalve larvae	0.8	1.7	0.2	2.2	0.8	0.7
Chaetognatha	5.6	2.9	2.1	4.2	4.4	1.0
Larvacea	0.1	3.0	2.0	0.5	0.9	2.7
<u>Doliolum</u>	0.1	0.9	0.4	+	0.3	0.6
<u>Salpa</u>	0	0	0.1	0	0.2	0.1
Echinoderm larvae	0	0.1	0	+	0.1	+
Others	0.1	0	0	0	0	0

TABLE 4. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Copepoda %	35.6	55.6	60.9	59.6	45.1	74.3
Others %	64.4	44.4	39.1	40.4	54.9	25.7
Cladocera						
<u>Penilia</u>	0	+	+	+	0.1	0
Ostracoda						
<u>Euconchoecia</u>	44.5	28.0	22.4	31.7	41.3	1.4
<u>Conchoecia</u>	0	0.6	0.5	0	+	2.0
Mysidacea	+	+	+	0	0.1	0
Amphipoda	1.8	0.4	0.2	0.4	0.4	0.4
Euphausiacea	0	0	+	0	+	0.4
<u>Lucifer</u>	+	0.4	0.4	+	0.2	0.2
Other crustaceans	0	0	0	0	+	0
Barnacle nauplii	3.6	0	+	+	0	0.1
Barnacle cypris	3.6	0	+	0	0.4	0.2
Other nauplii	0	0.3	0.2	0.1	0.5	0.8
Decapod zoea	+	0.1	+	0.1	0.1	0.2
Decapod megalopa	0	0	+	0	0	0.2
Decapod larvae	+	0.4	0.1	+	0.1	0.3
Other crustacean larvae	0	0.3	0.6	+	0.4	1.0
Medusae	3.1	3.1	3.1	2.1	2.1	2.6
Polychaeta	0.3	0.2	0.4	0	0.6	0.4
Gastropod larvae	0.7	0.5	0.9	0.5	0.4	0.9
Heteropoda	0	0.1	0	+	+	0.1
Pteropoda	0	0.1	0.1	+	0.2	0.1
Bivalve larvae	1.0	0.7	1.0	0.8	1.2	0.5

TABLE 4. CONT.'D

Chaetognatha	1.6	3.0	3.8	3.7	2.7	6.9
Larvacea	0.4	5.5	4.5	0.8	3.0	5.4
<u>Doliolum</u>	0.1	0.5	0.3	0.1	0.6	1.2
<u>Salpa</u>	0	0.2	0.2	0	0	0.5
Echinoderm larvae	+	+	0.1	0	+	0
Others	0	0	0	0	+	0

TABLE 4. CONT.'D

## MARCH CRUISE

Transect	II		
	1	2	3
Station			
Copepoda %	80.0	39.3	52.5
Others %	20.0	60.7	47.5
Cladocera			
<u>Podon</u>	0	0.1	0
Ostracoda			
<u>Euconchoecia</u>	3.3	33.5	27.8
<u>Conchoecia</u>	0	0	0.3
Mysidacea	0.2	0	0.1
Amphipoda	2.7	2.7	3.2
Euphausiacea	0	+	0.1
<u>Lucifer</u>	0	0.1	0.8
Other crustaceans	+	0	0
Barnacle nauplii	0.3	0	0
Barnacle cypris	0.9	0.1	0.7
Other nauplii	+	0.2	0.2
Decapod zoea	0.1	0.1	0.3
Decapod megalopa	0	0	0.1
Decapod larvae	0	0.2	0.2
Other crustacean larvae	+	+	0.4
Medusae	1.0	2.4	1.2
Polychaeta	0.4	0.1	0.2
Gastropod larvae	2.0	0.2	0.8
Heteropoda	0	0.1	0.1
Pteropoda	0	0	0.1
Bivalve larvae	1.9	1.7	1.7

TABLE 4. CONT.'D

Chaetognatha	3.7	2.7	4.8
Larvacea	3.7	12.7	0.6
<u>Doliolum</u>	0.1	4.1	3.5
Other urochordates	+	0.1	0
Echinoderm larvae	0	+	0.1
Others	0	+	0



TABLE 4. CONT.'D

## APRIL CRUISE

Transect	II		
	1	2	3
Station			
Copepoda %	45.0	41.9	68.3
Others %	55.0	58.1	31.7
Cladocera			
<u>Evadne</u>	0.1	1.8	0.2
<u>Penilia</u>	0.1	0.3	0
<u>Podon</u>	0.2	0.3	0.1
Ostracoda			
<u>Euconchoecia</u>	0	24.8	2.7
<u>Conchoecia</u>	0	0	1.9
Mysidacea	+	+	+
Amphipoda	0.1	3.4	1.8
Euphausiacea	0	0	+
<u>Lucifer</u>	+	0.1	0.2
Barnacle nauplii	0	0.1	+
Barnacle cypris	0	0.2	+
Other nauplii	+	0.4	0.6
Decapod zoea	0.3	0.8	0.5
Decapod megalopa	0	+	0
Decapod larvae	0.1	0.2	0.2
Stomatopod larvae	+	+	+
Other crustacean larvae	0.3	0.3	1.1
Medusae	2.0	0.9	1.7
Polychaeta	0.1	0.5	0.3
Gastropod larvae	1.0	2.5	4.3
Heteropoda	+	0.1	+
Pteropoda	+	0.6	0.4

TABLE 4. CONT.'D

Bivalve larvae	44.8	13.0	0.9
Chaetognatha	3.8	3.5	10.9
Larvacea	2.2	4.2	3.2
<u>Doliolum</u>	0	+	0.3
<u>Salpa</u>	0	0	0.4
Echinoderm larvae	0	0.1	+

TABLE 4. CONT.'D  
MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Copepoda %	73.8	24.8	48.2	43.1	26.9	39.6
Others %	26.2	75.2	51.8	56.9	73.1	60.4
Cladocera						
<u>Penilia</u>	0.2	0.3	+	37.7	2.3	+
<u>Podon</u>	0	0.2	0	4.9	0.4	0
Ostracoda						
<u>Euconchoecia</u>	9.3	64.2	4.7	0.6	46.6	20.9
<u>Conchoecia</u>	0	0	1.8	0	0	1.3
Mysidacea	0	+	0.1	0	+	+
Amphipoda	0.9	1.6	0.9	0.1	1.9	1.3
Euphausiacea	0	0	0.1	0	0	0.2
<u>Lucifer</u>	1.7	0.1	0.2	0.2	0.4	0.1
Other crustaceans	0	0	+	0	0	0
Barnacle nauplii	0	0	0	0.1	+	+
Barnacle cypris	0.1	0.4	2.7	0.3	+	1.9
Other nauplii	0	+	0.1	0	0.1	0.1
Decapod zoea	1.4	0.4	0.7	0.5	1.2	0.4
Decapod megalopa	+	0	0.1	+	+	0.1
Decapod larvae	0.7	0.1	0.2	0.4	0.8	0.5
Stomatopod larvae	0.1	0.1	0.1	0	0.1	+
Other crustacean larvae	0.2	0.2	0.2	0.7	0.8	0.6
Medusae	0.3	0.8	2.7	0.2	0.1	1.7
Polychaeta	+	+	0.4	0.2	0.1	0.2
Gastropod larvae	1.3	1.9	1.0	1.4	2.7	1.7
Heteropoda	0.3	0.1	+	0	0.3	+
Pteropoda	2.0	1.3	1.1	0.1	6.3	1.7

TABLE 4. CONT.'D

Bivalve larve	0.1	0.3	0.6	4.0	0.7	0.6
Chaetognatha	3.1	2.6	30.0	2.7	7.3	25.0
Larvacea	4.6	0.4	3.1	2.4	0.4	0.8
<u>Doliolum</u>	0	0.2	0.7	0.1	0.3	1.2
<u>Salpa</u>	0	+	0.1	0	0.4	+
Echinoderm larvae	0	+	+	+	+	+

TABLE 4. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Copepoda %	24.3	37.9	47.8	39.0	41.6	58.6
Others %	75.7	62.1	52.2	61.0	58.4	41.4
Cladocera						
<u>Penilia</u>	52.4	29.2	3.4	31.1	0.1	0.1
<u>Podon</u>	2.8	5.2	0.6	6.3	0.3	0
Ostracoda						
<u>Euconchoecia</u>	3.6	14.4	16.1	11.1	36.5	14.2
<u>Conchoecia</u>	0	+	0.6	0	0	0.4
Mysidacea	0	0	+	+	+	0.1
Amphipoda	0.9	0.9	1.4	0.8	1.0	1.4
Euphausiacea	0	0	+	0	0	0
<u>Lucifer</u>	0.2	0.1	0.3	0.4	0.8	0.6
Barnacle nauplii	+	+	+	+	0	+
Barnacle cypris	0.3	0.2	0.5	+	0.1	1.2
Other nauplii	0.1	+	0.1	0.1	+	0.2
Decapod zoea	0.4	0.6	1.1	1.0	0.2	0.6
Decapod megalopa	+	+	0.2	0	0	0.1
Decapod larvae	0.5	0.4	0.9	0.5	0.5	1.1
Stomatopod larvae	+	+	0.2	0.2	+	0.1
Other crustacean larvae	0.5	0.4	0.8	1.0	0.1	0.6
Medusae	0.5	1.0	3.5	0.5	2.9	3.9
Polychaeta	0	0.2	0.2	0.4	0.3	0.1
Gastropod larvae	1.6	2.5	1.2	0.9	0.7	0.8
Heteropoda	0.1	0.1	0.1	0	0.1	+
Pteropoda	0.2	0.2	1.3	0.2	1.1	1.0
Cephalopoda	+	0	+	0	0	0
Bivalve larvae	6.2	1.3	0.3	1.4	0.5	0.4

TABLE 4. CONT.'D

Chaetognatha	4.6	4.0	15.5	2.6	8.3	11.7
Larvacea	+	0.7	0.6	1.1	2.4	2.4
<u>Doliolum</u>	0.3	0.6	1.7	1.4	2.3	0.4
<u>Salpa</u>	0.1	0	1.0	0	0	0
Echinoderm larvae	0.2	0.1	0.6	0	0.1	0.1
Others	0	0	+	0	+	0

TABLE 4. CONT.'D

## JULY CRUISE

Transect	II		
	1	2	3
Station			
Copepoda %	73.1	68.6	67.0
Others %	26.9	31.4	33.0
Cladocera			
<u>Penilia</u>	0.4	0.8	0.3
<u>Podon</u>	+	1.6	1.5
Ostracoda			
<u>Euconchoecia</u>	12.6	13.3	11.4
<u>Conchoecia</u>	0	0	0.8
Amphipoda	0.1	0.3	1.0
<u>Lucifer</u>	0.2	0.1	0.4
Barnacle nauplii	0	+	+
Barnacle cypris	0	0.8	0.2
Other nauplii	0	0	0.1
Decapod zoea	0.5	0.3	0.1
Decapod megalopa	0	0	+
Decapod larvae	0.1	0.3	0.4
Stomatopod larvae	0.1	0.1	0.1
Other crustacean larvae	0	0.1	0.7
Medusae	0.8	3.5	2.5
Polychaeta	0.2	0.3	0.3
Gastropod larvae	2.4	1.2	1.9
Heteropoda	0.1	+	+
Pteropoda	0.4	1.3	0.6
Bivalve larvae	+	0.1	0.3
Chaetognatha	2.7	3.6	5.0

TABLE 4. CONT.'D

Larvacea	6.2	3.1	4.0
<u>Doliolum</u>	0	0.3	0.8
<u>Salpa</u>	0	0.2	0.2
Echinoderm larvae	+	0.1	0.5



TABLE 4. CONT.'D

## AUGUST CRUISE

Transect	II		
	1	2	3
Station			
Copepoda ‰	88.1	69.8	55.7
Others ‰	11.9	30.2	44.3
Cladocera			
<u>Evadne</u>	0	0.5	+
<u>Penilia</u>	0	0	1.2
<u>Podon</u>	4.1	4.5	1.7
Ostracoda			
<u>Euconchoecia</u>	0	1.3	2.3
<u>Conchoecia</u>	0	0	2.4
Mysidacea	0	0	+
Amphipoda	0.1	0.2	0.1
<u>Lucifer</u>	0	0.1	0.1
Other nauplii	+	0	0.1
Decapod zoea	0.3	0.1	+
Decapod megalopa	0	0	+
Decapod larvae	0.1	0.2	0.1
Stomatopod larvae	+	0.1	0
Other crustacean larvae	0	+	0.2
Medusae	0.1	1.5	2.9
Polychaeta	0.1	0.1	0.2
Gastropod larvae	2.1	0.5	0.6
Heteropoda	0.1	0	+
Pteropoda	0.3	0.8	0.1
Bivalve larvae	0.1	+	0.2
Chaetognatha	1.5	3.0	5.0

TABLE 4. CONT.'D

Larvacea	2.3	14.5	14.2
<u>Doliolum</u>	0.6	0.1	1.8
<u>Salpa</u>	0	2.3	10.6
Echinoderm larvae	0	0.2	0.3
Others	0	+	0

TABLE 4. CONT.'D  
SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Copepoda %	90.7	60.7	70.1	76.5	72.1	62.9
Others %	9.3	39.3	29.9	23.5	27.9	37.1
Cladocera						
<u>Penilia</u>	0	+	0.4	0	0	0.6
<u>Podon</u>	0	0	0.1	0	0	0.1
Ostracoda						
<u>Euconchoecia</u>	0	2.9	11.2	+	0.1	17.8
<u>Conchoecia</u>	0	0	0.7	0	0	0.3
Mysidacea	+	0	0	0.1	0	0
Amphipoda	+	0.3	0.1	0.1	0.9	0.4
Euphausiacea	0	0	0	0	0	+
<u>Lucifer</u>	0.8	0.2	0	+	1.2	0.1
Other nauplii	+	0.2	0.1	0.1	0.1	0
Decapod zoea	0.1	1.1	0.3	0.1	5.7	1.3
Decapod megalopa	0	0	+	0	0.1	+
Decapod larvae	0.4	0.9	0.3	0.2	0.5	0.5
Stomatopod larvae	0	+	0.1	+	0.1	0
Other crustacean larvae	4.4	0.3	0.6	11.6	0.5	0.9
Medusae	0.1	1.1	1.0	0.4	0.9	0.7
Polychaeta	+	0.2	0.5	0.3	0.1	0.1
Gastropod larvae	0.3	23.1	2.1	1.0	10.3	0.9
Heteropoda	0	0.2	+	0.1	+	+
Pteropoda	0	0.2	0.2	+	0.2	0.1
Cephalopoda	0	0	0	0	0	+
Bivalve larvae	1.5	1.1	1.2	2.3	0.4	0.9
Chaetognatha	1.0	2.0	3.4	6.1	3.6	2.9

TABLE 4. CONT.'D

Larvacea	0.4	4.9	6.5	1.0	1.4	8.4
<u>Doliolum</u>	0	0.1	1.1	0	0.2	0.5
Other urochordates	0	0	0	0	0	0.3
Echinoderm larvae	0	0.3	+	0	1.4	0.1

TABLE 4. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Copepoda %	57.0	54.6	62.6	50.9	30.2	76.5
Others %	43.0	45.4	37.4	49.1	69.8	23.5
Cladocera						
<u>Penilia</u>	0	+	0.2	0	0	0.4
<u>Podon</u>	0	+	+	+	0.2	0.6
Ostracoda						
<u>Euconchoecia</u>	0	9.7	16.3	0.1	0	7.7
<u>Conchoecia</u>	0	0	+	0	0	+
Mysidacea	0	0	0	0.1	0	0
Amphipoda	0.3	1.0	0.7	1.5	0.2	0.3
<u>Lucifer</u>	3.5	0.6	0	5.1	4.3	0.1
Barnacle nauplii	+	0	0	+	0.2	0
Barnacle cypris	0	0	0	+	0	0
Other nauplii	0.5	0.1	0	0.4	0.1	+
Decapod zoea	0.7	1.8	0.5	0.7	6.0	0.1
Decapod megalopa	0	0	0	0	0.1	0
Decapod larvae	1.5	0.7	0.3	5.2	0.9	0.4
Stomatopod larvae	0	0	0	+	0.2	0.1
Other crustacean larvae	26.9	3.8	+	15.6	12.8	0.3
Medusae	1.4	1.5	0.6	1.3	1.3	1.8
Polychaeta	0	1.4	0.3	0.6	3.2	0.4
Gastropod larvae	0.8	1.8	1.9	1.4	18.8	1.7
Heteropoda	0.1	0	+	0	+	0
Pteropoda	0	1.0	0.5	0	0.8	0.6
Bivalve larvae	1.9	2.9	0.9	6.9	7.3	1.0
Chaetognatha	4.5	9.4	3.7	7.2	10.9	1.2
Larvacea	0.6	9.6	10.1	1.6	2.2	5.9

TABLE 4. CONT.'D

<u>Doliolum</u>	0	0.1	0.9	0	0.1	0.6
<u>Salpa</u>	0	0	0	0	0	0.2
Echinoderm larvae	0.1	0.1	0.4	1.3	0.2	0.3

TABLE 4. CONT.'D  
NOVEMBER CRUISE

Transect	II		
	1	2	3
Station			
Copepoda %	86.8	82.6	70.2
Others %	13.2	17.4	29.8
Cladocera			
<u>Penilia</u>	+	0.1	0
<u>Podon</u>	0	1.2	+
Ostracoda			
<u>Euconchoecia</u>	0.2	1.8	5.7
<u>Conchoecia</u>	0	0	0.4
Mysidacea	0	0	+
Amphipoda	0.1	1.0	0.5
Euphausiacea	0	+	0
<u>Lucifer</u>	0.4	+	0
Other Crustaceans	0	0	+
Other nauplii	1.9	0	+
Decapod zoea	+	0.4	0.2
Decapod larvae	1.8	0.2	0.1
Stomatopod larvae	0	0	+
Other crustacean larvae	1.2	0.1	1.3
Medusae	0.4	0.6	1.2
Polychaeta	0.3	0.4	0.2
Gastropod larvae	0.1	0.5	0.9
Heteropoda	0	+	0
Pteropoda	0.1	0.6	0.4
Bivalve larvae	0.2	0.6	0.5
Chaetognatha	3.0	2.3	2.9

TABLE 4. CONT.'D

Larvacea	3.4	7.2	14.0
<u>Doliolum</u>	0	0.2	0.3
<u>Salpa</u>	0	0	0.3
Echinoderm larvae	0	0	0.8



TABLE 4. CONT.'D  
DECEMBER CRUISE

Transect	II		
	1	2	3
Station			
Copepoda %	81.8	53.3	48.6
Others %	18.2	46.7	51.4
Cladocera			
<u>Penilia</u>	0.5	0.4	0.6
Ostracoda			
<u>Euconchoecia</u>	4.9	27.8	22.6
<u>Conchoecia</u>	0	+	1.3
Mysidacea	0	0	0.1
Amphipoda	0.1	0.7	2.1
Euphausiacea	0	0	+
<u>Lucifer</u>	0.1	0.4	0.5
Other nauplii	0.1	0.1	0.1
Decapod zoea	+	0.6	1.0
Decapod larvae	0.2	0.5	0.4
Stomatopod larvae	0	+	0.1
Other crustacean larvae	0.1	0.1	0.8
Medusae	0.5	0.3	1.6
Polychaeta	0.4	0.1	0.3
Gastropod larvae	0.2	1.9	2.2
Heteropoda	+	0.1	0.1
Pteropoda	0	0.7	1.3
Cephalopoda	0	0	+
Bivalve larvae	1.1	1.4	3.1
Chaetognatha	3.5	2.6	3.8

TABLE 4. CONT.'D

Larvacea	6.3	8.2	7.4
<u>Doliolum</u>	0.1	0.1	1.2
<u>Salpa</u>	+	0.1	0
Echinoderm larvae	0	0.5	0.6

TABLE 5  
 NUMERICAL ABUNDANCE OF COPEPODS  
 MEAN OF TWO SAMPLES PER STATION  
 JANUARY/FEBRUARY CRUISE

Transect	I			II		
	1	2	3	1	2	3
No. of Copepods Per M <sup>3</sup>	898.2	754.7	997.5	462.7	758.1	1410.4
Calanoida	773.3	625.7	769.8	392.8	638.6	1040.2
Adult Females	310.1	243.5	220.6	194.6	301.0	465.5
Adult Males	170.1	45.4	55.5	48.0	77.5	92.5
Immatures	293.2	336.7	493.6	150.3	260.1	482.3
Cyclopoida	98.0	125.6	225.2	63.5	114.2	358.2
Adult Females	44.3	74.0	137.6	36.0	71.0	173.4
Adult Males	40.7	22.1	45.7	21.0	19.6	108.5
Immatures	13.0	29.5	42.1	6.5	23.7	76.2
Harpacticoida	27.0	3.5	2.5	6.4	5.3	12.0
Adult females	0.3	1.3	0.8	2.4	2.2	0.8
Adult Males	1.5	1.3	0.7	0.3	3.1	0
Immatures	0	0.5	0.2	0	0	0
Benthic	25.3	0.5	0.9	3.7	0	11.2

TABLE 5. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
No. of Copepods Per M <sup>3</sup>	994.4	467.9	883.5	1318.3	890.1	516.0
Calanoida	888.5	380.6	706.5	1059.9	735.8	360.2
Adult Females	485.8	151.6	282.1	679.3	324.9	142.1
Adult Males	156.5	28.9	70.4	74.8	67.7	34.2
Immatures	246.3	200.2	354.1	305.8	343.2	183.8
Cyclopoida	97.9	82.7	170.8	224.5	143.1	153.7
Adult Females	43.0	59.9	121.9	121.7	86.2	85.5
Adult Males	33.6	9.6	21.8	73.3	25.7	35.0
Immatures	21.3	13.2	27.1	29.5	31.1	33.2
Harpacticoida	8.0	4.5	6.2	33.9	11.2	2.1
Adult Females	2.1	1.5	3.2	9.3	5.6	0.9
Adult Males	1.6	1.2	1.7	8.9	3.0	0.8
Immatures	0	0.2	0.9	0.6	0.5	0
Benthic	4.3	1.6	0.4	15.0	2.1	0.4

TABLE 5 CONT.'D

Transect	MARCH CRUISE			APRIL CRUISE		
	II			II		
Station	1	2	3	1	2	3
No. of Copepods Per M <sup>3</sup>	1120.1	934.3	533.5	2304.8	853.0	335.1
Calanoida	1066.8	700.0	401.1	1961.1	595.0	223.0
Adult Females	531.3	342.9	184.2	1217.8	408.1	117.6
Adult Males	419.5	78.4	27.4	272.1	42.2	14.1
Immatures	116.0	278.7	189.6	471.1	144.8	91.3
Cyclopoida	52.0	225.3	131.0	335.8	251.4	111.6
Adult Females	14.0	93.8	87.2	82.6	81.3	70.9
Adult Males	18.7	44.5	23.4	162.8	135.2	21.5
Immatures	19.3	87.0	20.4	90.3	34.9	19.1
Harpacticoida	1.4	9.1	1.5	8.0	6.6	0.5
Adult Females	0	1.2	0.4	3.0	1.5	0.2
Adult Males	1.1	1.7	0	0	0	0.2
Immatures	0	0	0	0	0	0
Benthic	0.3	6.3	1.1	5.0	5.1	0.1

TABLE 5. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup>	2832.6	1702.9	291.8	4745.5	1747.5	355.0
Calanoida	2483.4	1181.6	168.7	2860.1	1141.4	203.2
Adult females	1121.4	674.0	76.4	2103.5	581.5	109.7
Adult males	829.9	76.7	20.5	457.3	256.4	24.1
Immatures	532.1	430.9	71.8	299.3	303.4	69.4
Cyclopoida	327.1	518.1	121.4	1851.5	598.1	150.5
Adult females	125.0	309.9	73.7	704.4	162.3	89.5
Adult males	175.0	174.7	26.9	1096.6	309.9	41.2
Immatures	27.0	33.5	20.8	50.5	125.9	19.8
Harpacticoida	22.1	3.2	1.7	33.8	8.0	1.3
Adult females	1.5	0.8	1.5	0	2.3	0.7
Adult males	0	1.6	0.2	1.3	1.1	0.3
Immatures	0	0	0	0	0	0
Benthic	20.6	0.8	0	32.6	4.6	0.3

TABLE 5. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup>	1682.1	1272.6	460.5	2354.2	1459.7	740.0
Calanoida	1126.0	696.3	190.7	1631.6	1042.8	455.3
Adult females	624.5	463.9	72.2	1113.6	688.7	221.6
Adult males	155.8	73.0	13.5	191.8	98.5	54.4
Immatures	345.7	159.4	105.0	326.1	255.6	179.3
Cyclopoida	543.1	562.8	268.4	712.0	416.1	282.0
Adult females	111.6	231.0	146.4	196.8	205.0	135.4
Adult males	359.7	257.6	97.0	456.9	155.7	97.1
Immatures	71.8	74.2	25.1	58.3	55.4	49.5
Harpacticoida	12.9	13.5	1.4	10.6	0.8	2.7
Adult females	2.0	0	0.9	1.2	0.8	2.3
Adult males	0	1.4	0.2	3.8	0	0.1
Immatures	0	0	0	0	0	0
Benthic	10.9	12.1	0.3	5.6	0	0.3

TABLE 5. CONT.'D

## JULY CRUISE

## AUGUST CRUISE

Transect	II			II		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup> .	1051.8	494.8	522.1	1001.7	769.1	474.6
Calanoida	851.5	236.2	311.5	694.8	546.0	266.3
Adult Females	608.1	164.6	132.1	480.3	357.7	116.1
Adult Males	171.5	11.0	31.8	139.1	58.2	27.6
Immatures	71.9	60.5	147.7	75.4	130.1	122.5
Cyclopoida	200.0	253.0	206.6	306.6	222.1	206.1
Adult females	178.5	220.0	144.4	261.3	192.0	144.6
Adult males	19.7	22.2	34.5	43.1	11.0	27.3
Immatures	1.9	10.9	27.6	2.3	19.1	34.2
Harpacticoida	0.4	5.6	4.1	0.3	1.0	2.2
Adult Females	0	3.4	3.5	0	0.6	1.5
Adult Males	0	2.2	0.6	0.3	0.3	0.7
Immatures	0	0	0	0	0	0
Benthic	0.4	0	0	0	0	0



TABLE 5. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup>	6743.3	1066.0	918.7	1411.4	1744.2	995.2
Calanoida	6638.4	948.3	530.2	1334.1	1330.7	565.6
Adult Females	1472.3	356.6	301.6	446.4	502.1	311.0
Adult Males	1516.8	175.9	32.3	141.7	96.2	52.6
Immatures	3649.3	415.8	196.4	746.0	732.4	202.0
Cyclopoida	89.4	112.5	386.3	76.9	392.0	427.0
Adult Females	36.3	50.3	272.1	32.0	278.6	320.0
Adult Males	46.2	52.8	51.0	41.9	72.5	53.5
Immatures	6.9	9.4	63.3	3.0	41.0	53.6
Harpacticoida	15.6	5.3	2.2	0.4	21.5	2.6
Adult Females	0	1.7	1.3	0	18.9	1.2
Adult Males	0	0.8	0.6	0	2.2	1.4
Immatures	0	0	0	0	0.3	0
Benthic	15.6	2.9	0.3	0.4	0	0

TABLE 5. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup>	246.4	467.8	539.5	672.3	130.6	483.9
Calanoida	228.3	326.3	286.7	605.0	61.3	280.1
Adult Females	39.3	191.7	149.4	170.9	15.8	189.6
Adult Males	16.5	21.2	35.0	148.1	1.3	16.1
Immatures	172.5	113.5	102.3	286.0	44.1	74.5
Cyclopoida	16.8	137.2	251.7	65.0	45.2	201.2
Adult Females	7.5	108.3	218.7	4.9	26.4	168.2
Adult Males	8.1	15.6	21.0	50.5	6.3	14.3
Immatures	1.2	13.4	12.0	9.6	12.5	18.7
Harpacticoida	1.2	4.2	1.2	2.2	24.1	2.6
Adult Females	0.1	3.4	1.0	1.3	14.3	1.5
Adult Males	0	0.7	0	0.7	8.1	1.0
Immatures	0	0.1	0.2	0	1.6	0.1
Benthic	1.1	0	0	0.3	0	0

TABLE 5. CONT.'D

NOVEMBER CRUISE

DECEMBER CRUISE

Transect	II			II		
	1	2	3	1	2	3
Station						
No. of Copepods Per M <sup>3</sup>	2044.3	1420.3	367.7	1489.1	767.3	369.7
Calanoida	1892.0	1125.8	208.1	1322.1	655.7	291.7
Adult Females	612.7	749.2	100.4	623.6	383.4	150.2
Adult Males	480.5	29.6	13.2	75.5	45.3	32.8
Immatures	798.8	347.1	94.5	623.0	227.0	108.8
Cyclopoida	81.8	293.3	157.6	165.3	102.8	76.7
Adult Females	28.2	235.4	113.9	45.2	77.2	55.8
Adult Males	29.7	31.9	17.2	79.1	15.8	10.9
Immatures	23.9	26.0	26.5	40.9	9.8	9.9
Harpacticoida	70.5	1.2	2.0	1.7	8.9	1.3
Adult Females	1.8	0.9	1.4	0.5	4.8	0.7
Adult Males	0.9	0.3	0.4	0	3.0	0.6
Immatures	1.3	0	0.2	0	0.6	0
Benthic	66.6	0	0	1.1	0.6	0

TABLE 6  
 PERCENTAGE COMPOSITION OF COPEPODS  
 MEAN OF TWO SAMPLES PER STATION

Transect	Station	PERCENTAGE COMPOSITION								
		Copepoda 100%			Calanoida 100%			Cyclopoida 100%		
		Calanoida	Cyclopoida	Harpacticoida	Adult Females	Adult Males	Immature	Adult Females	Adult Males	Immature
JANUARY/FEBRUARY CRUISE										
I	1	85.7	11.3	3.1	41.2	23.0	36.0	45.2	41.8	13.1
	2	82.0	17.7	0.3	37.6	6.6	55.9	57.1	18.0	25.0
	3	77.2	22.6	0.3	28.5	7.2	64.4	60.9	20.3	18.9
II	1	85.1	13.4	1.5	49.4	12.0	38.6	58.4	32.2	9.4
	2	84.2	15.1	0.7	47.2	12.1	40.7	62.2	17.1	20.7

TABLE 6. CONT. 'D

	3	74.0	25.1	0.9	44.5	8.7	46.8	48.7	29.8	21.5
III	1	89.0	10.1	0.9	54.8	17.2	28.0	44.0	34.3	21.7
	2	81.0	18.1	0.9	40.1	7.9	52.0	72.0	11.7	16.3
	3	80.0	19.3	0.7	39.8	9.9	50.3	71.0	12.9	16.1
IV	1	80.8	16.7	2.5	63.9	7.2	28.9	54.6	32.1	13.3
	2	82.7	16.1	1.3	44.1	9.2	46.7	60.2	18.0	21.9
	3	69.6	30.0	0.4	40.5	9.7	49.7	55.8	22.6	21.5
MARCH CRUISE										
II	1	95.2	4.7	0.1	49.1	39.3	11.0	27.0	36.1	36.9
	2	74.9	24.1	1.0	49.1	11.3	39.8	41.7	19.7	38.7
	3	75.2	24.6	0.3	46.8	6.9	46.3	66.6	18.2	15.3
APRIL CRUISE										
II	1	85.5	14.2	0.3	62.4	13.8	23.8	23.7	49.4	26.8
	2	69.3	29.9	0.8	68.2	7.1	24.7	32.3	53.8	13.9
	3	66.0	33.8	0.2	53.2	6.4	40.5	63.6	19.3	17.1

TABLE 6. CONT.'D

## MAY/JUNE CRUISE

I	1	87.4	11.8	0.8	45.8	33.4	20.8	37.8	53.8	8.4
	2	69.4	30.4	0.2	57.3	6.4	36.3	60.0	33.6	6.4
	3	57.6	41.9	0.6	45.8	12.0	42.2	60.7	22.1	17.2
II	1	60.4	38.9	0.7	73.6	16.0	10.5	38.1	59.2	2.7
	2	65.0	34.6	0.4	51.0	22.5	26.5	27.1	51.8	21.0
	3	57.5	42.1	0.4	54.2	11.8	34.0	59.3	28.0	12.7
III	1	66.3	32.9	0.8	54.2	12.9	32.9	20.7	66.1	13.2
	2	54.7	44.3	1.1	66.6	10.5	22.9	40.8	45.8	13.3
	3	41.4	58.3	0.3	37.8	7.1	55.1	54.6	36.1	9.3
IV	1	68.4	31.1	0.4	67.6	12.1	20.3	27.4	64.4	8.2
	2	71.1	28.8	+	65.9	9.3	24.8	49.4	37.3	13.2
	3	61.5	38.1	0.4	48.6	11.9	39.6	47.9	34.5	17.6

## JULY CRUISE

II	1	81.5	18.5	+	73.0	19.4	7.7	88.6	10.4	1.0
	2	47.8	51.0	1.2	69.7	4.6	25.6	86.9	8.8	4.3
	3	59.2	40.0	0.8	41.8	9.9	48.2	69.9	16.8	13.3

TABLE 6. CONT. 'D

## AUGUST CRUISE

II	1	70.0	30.0	+	68.7	20.6	10.7	85.5	13.8	0.7
	2	71.1	28.8	0.1	65.4	10.8	23.8	86.7	4.9	8.4
	3	56.2	43.4	0.4	43.5	10.2	46.3	70.1	13.2	16.8

## SEPTEMBER CRUISE

I	1	98.4	1.3	0.2	22.3	22.9	54.8	40.8	51.3	7.9
	2	88.3	11.2	0.5	36.0	19.3	44.8	47.2	44.4	8.4
	3	58.9	40.9	0.2	58.2	6.2	35.6	72.7	13.1	14.2
II	1	94.4	5.5	+	33.5	10.6	55.9	41.3	54.9	3.9
	2	78.1	20.9	1.1	36.6	7.4	56.0	70.4	19.1	10.5
	3	55.6	44.2	0.2	53.5	9.2	37.3	74.1	12.5	13.3
III	1	92.5	6.9	0.6	18.0	7.3	74.6	46.4	47.0	6.5
	2	69.9	29.3	0.8	58.4	6.5	35.1	78.8	11.5	9.7
	3	53.8	46.0	0.2	51.8	12.2	36.0	86.1	8.3	5.6
IV	1	89.7	9.9	0.3	28.3	24.6	47.1	7.7	77.8	14.4
	2	47.0	34.8	18.2	25.9	2.1	72.0	58.3	14.1	27.7
	3	58.4	41.1	0.5	67.6	5.7	26.6	82.9	7.1	10.0

TABLE 6. CONT.'D

## NOVEMBER CRUISE

II	1	92.4	4.3	3.3	31.7	24.2	44.1	34.0	36.7	29.2
	2	79.3	20.6	0.1	66.6	2.6	30.8	80.2	10.9	8.9
	3	56.6	42.8	0.6	48.3	6.4	45.4	72.2	10.8	17.0

## DECEMBER CRUISE

II	1	88.9	11.0	0.1	47.1	5.8	47.1	29.4	46.1	24.5
	2	85.4	13.4	1.1	58.8	7.0	34.3	74.3	15.8	9.8
	3	78.9	20.8	0.3	51.6	11.3	37.1	72.7	14.2	13.1



TABLE 7

## LIST OF COPEPOD SPECIES FOUND

## Order CALANOIDA

## Family Calanidae

1. *Calanus tenuicornis* Dana, 1849
2. *Nannocalanus minor* (Claus, 1863)
3. *Neocalanus gracilis* (Dana, 1849)
4. *Neocalanus robustior* (Giesbrecht, 1888)
5. *Undinula vulgaris* (Dana, 1849)

## Family Eucalanidae

6. *Eucalanus crassus* Giesbrecht, 1888
7. *E. hyalinus* Claus, 1866
8. *E. monachus* Giesbrecht, 1888
9. *E. pileatus* Giesbrecht, 1888
10. *E. sewelli* Fleminger
11. *E. subtenuis* Giesbrecht, 1892
12. *Rhincalanus cornutus* Dana, 1852
13. *Mecynocera clausii* I. C. Thompson, 1888

## Family Paracalanidae

14. *Acrocalanus andersoni* Bowman, 1958
15. *A. longicornis* Giesbrecht, 1888
16. *Paracalanus aculeatus* Giesbrecht, 1888
17. *P. crassirostris* F. Dahl, 1894
18. *P. denudatus* Sewell, 1929
19. *P. indicus* (Wolfenden, 1905)
20. *P. quasimodo* Bowman, 1971
21. *P. nudus* Sewell, 1929
22. *Calocalanus pavo* Dana, 1849
23. *C. pavoninus* Farran, 1936
24. *C. styliremis* Giesbrecht, 1888
25. *C. sp. 1*
26. *C. sp. 2*
27. *C. sp. 3*
28. *C. sp. 4*
29. *Ischnocalanus plumulosus* (Claus, 1863)

## Family Pseudocalanidae

30. *Clausocalanus arcuicornis* (Dana, 1849)
31. *C. furcatus* (Brady, 1883)
32. *C. jobei* Frost & Fleminger, 1968
33. *C. mastigophorus* (Claus, 1863)
34. *C. parapergens* Frost & Fleminger, 1968
35. *C. paululus* Farran, 1926

TABLE 7. CONT.'D

36. *Clausocalanus pergens* Farran, 1926
37. *Ctenocalanus vanus* Giesbrecht, 1888

## Family Aetideidae

38. *Aetideus acutus* Farran, 1929
39. *Bradyidius arnoldi* Fleminger 1956
40. *Euchirella rostrata* (Claus, 1866)
41. *Paivella inaciae* Vervoort, 1965

## Family Euchaetidae

42. *Euchaeta marina* (Prestandrea, 1833)
43. *E. media* Giesbrecht, 1888
44. *E. paraconcinna* Fleminger, 1957
45. *E. pubera* Sars, 1907

## Family Phaennidae

46. *Phaenna spinifera* Claus, 1963
47. *Xanthocalanus agilis* Giesbrecht, 1892

## Family Scolecithricidae

48. *Scaphocalanus brevirostris* Park, 1970
49. *S. subcurtus* Park, 1970
50. *Scolecithricella ctenopus* (Giesbrecht, 1888)
51. *S. dentata* (Giesbrecht, 1888)
52. *S. tenuiserrata* (Giesbrecht, 1892)
53. *Scolecithrix bradyi* Giesbrecht, 1888
54. *S. danae* (Lubbock, 1856)
55. *Lophothrix latipes* (T. Scott, 1894)

## Family Tharybidae

56. *Parundinella spinodenticula* Fleminger, 1957

## Family Stephidae

57. *Stephos deichmannae* Fleminger, 1957

## Family Temoridae

58. *Temora stylifera* (Dana, 1849)
59. *T. turbinata* (Dana, 1849)
60. *Temoropia mayumbaensis* T. Scott, 1894

TABLE 7. CONT.'D

## Family Metridiidae

61. *Pleuromamma abdominalis* (Lubbock, 1856)
62. *P. gracilis* (Claus, 1863)
63. *P. piseki* Farran, 1929
64. *P. xiphias* (Giesbrecht, 1889)

## Family Centropagidae

65. *Centropages caribbeanensis* Park, 1970
66. *C. hamatus* (Lilljeborg, 1853)
67. *C. velificatus* De Oliveira, 1947

## Family Lucicutiidae

68. *Lucicutia flavicornis* (Claus, 1863)
69. *L. gaussae* Grice, 1963
70. *L. gemina* Farran, 1926
71. *L. paraclausi* Park, 1970

## Family Heterorhabdidae

72. *Heterorhabdus papilliger* (Claus, 1863)
73. *H. spinifer* Park, 1970

## Family Augaptilidae

74. *Haloptilus acutifrons* (Giesbrecht, 1892)
75. *H. longicornis* (Claus, 1863)
76. *H. ornatus* (Giesbrecht, 1892)
77. *H. paralongicirrus* Park, 1970
78. *H. spiniceps* (Giesbrecht, 1892)
79. *Euaugaptilus hecticus* (Giesbrecht, 1889)
80. *Augaptilus longicaudatus* (Claus, 1863)

## Family Candaciidae

81. *Candacia bipinnata* Giesbrecht, 1892
82. *C. curta* (Dana, 1849)
83. *C. longimana* (Claus, 1863)
84. *C. pachydactyla* (Dana, 1849)
85. *C. paenelongimana* Fleminger & Bowman, 1956
86. *C. varicans* (Giesbrecht, 1892)
87. *Paracandacia bispinosa* (Claus, 1863)
88. *P. simplex* (Giesbrecht, 1889)

TABLE 7. CONT.'D

## Family Pontellidae

- 89. *Anomalocera ornata* Sutcliffe, 1950
- 90. *Calanopia americana* F. Dahl, 1894
- 91. *Labidocera aestiva* Wheeler, 1901
- 92. *L. scotti* Giesbrecht, 1897
- 93. *Pontellopsis villosa* Brady, 1883
- 94. *Pontellina plumata* (Dana, 1849)

## Family Acartiidae

- 95. *Acartia danae* Giesbrecht, 1889
- 96. *A. lilljeborgii* Giesbrecht, 1889
- 97. *A. tonsa* Dana, 1848

## Order CYCLOPOIDA

## Family Oithonidae

- 98. *Oithona decipiens* Farran, 1913
- 99. *O. hamata* Rosendorn, 1917
- 100. *O. hebes* Giesbrecht, 1891
- 101. *O. nana* Giesbrecht, 1892
- 102. *O. plumifera* W. Baird, 1843
- 103. *O. robusta* Giesbrecht, 1892
- 104. *O. setigera* (Dana, 1852)
- 105. *O. similis* Claus, 1863
- 106. *O. simplex* Farran, 1913
- 107. *O. tenuis* Rosendorn, 1917
- 108. *O. vivida* Farran, 1913
- 109. *O. sp. 1*
- 110. *O. sp. 3*
- 111. *Paroithona pulla* Farran, 1913

## Family Oncaeiidae

- 112. *Oncaea conifera* Giesbrecht, 1891
- 113. *O. media* Giesbrecht, 1892
- 114. *O. mediterranea* Claus, 1863
- 115. *O. venusta* Philippi, 1843
- 116. *Lubbockia squillimana* Claus, 1863

## Family Sapphirinidae

- 117. *Sapphirina angusta* Dana, 1852
- 118. *S. auronitens* Claus, 1863

TABLE 7. CONT.'D

- 119. *Sapphirina intestinata* Giesbrecht, 1891
- 120. *S. metallina* Dana, 1852
- 121. *S. nigromaculata* Claus, 1863
- 122. *S. opalina* Dana, 1852
- 123. *S. ovatolanceolata* Dana, 1852
- 124. *S. stellata* Giesbrecht, 1891
- 125. *S. sp.1*
- 126. *Corissa parva* Farran, 1936
- 127. *Copilia lata* Giesbrecht, 1892
- 128. *C. mirabilis* Dana, 1852
- 129. *C. quadrata* Dana, 1852

## Family Corycaeidae

- 130. *Corycaeus amazonicus* F. Dahl, 1894
- 131. *C. americanus* M. Wilson, 1949
- 132. *C. clausi* F. Dahl, 1894
- 133. *C. flaccus* Giesbrecht, 1891
- 134. *C. furcifer* Claus, 1863
- 135. *C. giesbrechti* F. Dahl, 1894
- 136. *C. latus* Dana, 1849
- 137. *C. lautus* Dana, 1852
- 138. *C. limbatus* Brady, 1883
- 139. *C. minimus indicus* M. Dahl, 1912
- 140. *C. speciosus* Dana, 1852
- 141. *C. typicus* (Kroyer, 1853)
- 142. *Farranula gracilis* (Dana, 1853)
- 143. *F. rostrata* (Claus, 1863)

## Parasitic or Commensal Cyclopoids

- 144. *Siphonostoma* sp.1
- 145. *S. sp.2*
- 146. *Lichomolgid* spp.

## Order HARPACTICOIDA

## Family Ectinosomidae

- 147. *Microsetella rosea* (Dana, 1848)

## Family Clytemnestridae

- 148. *Clytemnestra rostrata* Brady, 1883
- 149. *C. scutellata* Dana, 1848

## Family Macrosetellidae

- 150. *Macrosetella gracilis* (Dana, 1848)

TABLE 8  
 NUMERICAL ABUNDANCE OF ADULT FEMALE COPEPODS PER M<sup>3</sup>  
 MEAN OF TWO SAMPLES PER STATION  
 JANUARY/FEBRUARY CRUISE

Transect	I			II		
	1	2	3	1	2	3
Average No./m <sup>3</sup>	379.8	319.2	359.8	236.6	374.2	650.9
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.4	0	0	0.8
<i>Acartia tonsa</i>	21.1	0	1.2	1.4	0	3.2
<i>Acrocalanus andersoni</i>	0	0	3.0	0	2.4	0
<i>Acrocalanus longicornis</i>	0.3	0.9	0.5	0	0.5	0
<i>Aetideus acutus</i>	0	0.5	0.9	0	0.3	0
<i>Calanopia americana</i>	0	10.0	0	0	11.0	7.2
<i>Calanus tenuicornis</i>	0	0.5	1.2	0	0.3	0
<i>Calocalanus pavo</i>	0	0.9	14.8	0	1.1	10.4
<i>Calocalanus pavoninus</i>	0	0.5	0	0	0	0
<i>Calocalanus styliremis</i>	0	2.6	3.7	0	1.7	0.8
<i>Calocalanus sp. 1</i>	0	0	0.2	0	0	0
<i>Calocalanus sp. 3</i>	0	0	0.5	0	0.5	0
<i>Calocalanus sp. 4</i>	0	0	0.5	0	0	0
<i>Candacia bipinnata</i>	0	0	0.2	0	0	0
<i>Candacia curta</i>	0	0	0.4	0	0	1.6
<i>Centropages hamatus</i>	30.8	0	0	3.4	0	0
<i>Centropages velificatus</i>	0.3	0.5	0	0.9	0	0
<i>Clausocalanus arcuicornis</i>	0	0	4.9	0	0.5	3.1

TABLE 8. CONT.'D

<i>Clausocalanus furcatus</i>	0.3	8.7	20.9	1.9	15.6	27.2
<i>Clausocalanus jobei</i>	1.8	8.7	67.7	5.3	14.8	44.6
<i>Clausocalanus mastigophorus</i>	0	0	1.4	0	0.8	1.6
<i>Clausocalanus parapergens</i>	0	0.5	9.5	0	3.0	2.4
<i>Clausocalanus paululus</i>	0	0	0	0	0.5	0
<i>Clausocalanus pergens</i>	0	0.5	0.4	0	1.4	0
<i>Ctenocalanus vanus</i>	0	3.5	17.0	0.2	9.0	0
<i>Eucalanus hyalinus</i>	0	0	0.7	0	0	0
<i>Eucalanus monachus</i>	0	0	1.9	0	0.3	0
<i>Eucalanus pileatus</i>	1.5	1.8	0	1.1	3.3	5.6
<i>Eucalanus sewelli</i>	0	0	0.2	0	0	0
<i>Euchaeta marina</i>	0	0.5	0	0	0.5	0
<i>Euchaeta media</i>	0	0	0.2	0	0	0
<i>Euchaeta paraconcinna</i>	0.9	1.3	0.8	0	1.7	0
<i>Haloptilus longicornis</i>	0	0.5	0.4	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0.4	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0.4	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	1.7	0	0	0.8
<i>Labidocera aestiva</i>	0.9	0	0	0.7	0.3	0.8
<i>Lucicutia flavicornis</i>	0	0.5	10.1	0.2	13.4	8.1
<i>Lucicutia gaussae</i>	0	0	0.7	0	0	0
<i>Lucicutia paraclausi</i>	2.4	0	0	0.2	0.3	0.8
<i>Mecynocera clausii</i>	0	0.5	1.4	0	1.1	0
<i>Nannocalanus minor</i>	4.7	8.7	3.5	0.4	7.7	13.6
<i>Neocalanus gracilis</i>	0	0	0.2	0	0	0
<i>Paracalanus aculeatus</i>	3.2	41.9	13.6	29.1	44.3	15.1

TABLE 8. CONT.'D

<i>Paracalanus crassirostris</i>	1.8	0	0	0	0	0
<i>Paracalanus denudatus</i>	0	1.3	0	0	0.3	0
<i>Paracalanus indicus</i>	208.1	93.9	20.4	101.1	121.3	203.4
<i>Paracalanus quasimodo</i>	3.0	39.0	6.5	30.3	29.3	102.3
<i>Paracandacia bispinosa</i>	0	0	0	0	0	1.6
<i>Paracandacia simplex</i>	0	0	0.4	0	0	0
<i>Parundinella spindenticula</i>	0	0.5	0	0	0.8	0
<i>Pleuromamma abdominalis</i>	0	0.5	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	2.2	0	0.3	0
<i>Pleuromamma piseki</i>	0	0	2.2	0	0.8	0
<i>Rhincalanus cornutus</i>	0	0.9	0.7	0	0.3	1.6
<i>Scaphocalanus subcurtus</i>	0	0	1.0	0	0.5	0
<i>Scolecithricella ctenopus</i>	0	0	0.4	0	0	0
<i>Scolecithricella dentata</i>	0	0	0.4	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0.5	0
<i>Scolecithrix bradyi</i>	0	0	0.4	0	0	0
<i>Scolecithrix danae</i>	0	0	0.8	0	0	0
<i>Stephos deichmannae</i>	2.4	0.5	0	0	1.9	0
<i>Temora stylifera</i>	0	1.8	0.4	0	1.4	0.8
<i>Temora turbinata</i>	27.0	12.6	0.2	18.4	7.4	8.1
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0.4	0	0	0
<i>Copilia mirabilis</i>	0	0	0.4	0	0	0
<i>Corycaeus amazonicus</i>	0.3	0.9	0.9	7.1	4.1	10.4
<i>Corycaeus americanus</i>	35.2	3.5	0	14.7	2.2	29.8
<i>Corycaeus clausi</i>	0	0.5	1.0	0	0	0.8



TABLE 8. CONT.'D

<i>Corycaeus flaccus</i>	0	0	0.4	0	0.3	0
<i>Corycaeus giesbrechti</i>	0	6.5	19.0	0	0.3	36.9
<i>Corycaeus limbatus</i>	0	0	1.0	0	0.3	0
<i>Corycaeus minimus</i>	0	0	0.4	0	0	0
<i>Corycaeus speciosus</i>	0	0.5	0.5	0	0	0
<i>Corycaeus typicus</i>	0	0	0.9	0	0	0.8
<i>Farranula gracilis</i>	0	0.9	0.5	0	1.4	0.8
<i>Farranula rostrata</i>	0	0	0.7	0	0	0.8
<i>Lichomolgus</i> sp. 1	1.8	0.5	0	3.6	1.4	4.9
<i>Lubbockia squillimana</i>	0	0	0.2	0	0.5	0
<i>Oithona nana</i>	4.7	0	0	0	0.3	0
<i>Oithona plumifera</i>	0.9	32.9	9.7	5.9	26.2	4.8
<i>Oithona setigera</i>	0	1.3	2.4	0	0.3	0
<i>Oithona similis</i>	0	0.5	0	0	0	0
<i>Oithona tenuis</i>	0	0.5	0.7	0	1.9	0
<i>Oithona vivida</i>	0	0	0.4	0	0	0
<i>Oithona</i> sp. 1	0	2.2	5.2	0	1.1	0
<i>Oithona</i> sp. 3	0	0	0.2	0	0	0
<i>Oncaea conifera</i>	0	0.5	8.9	0	0.3	0.8
<i>Oncaea media</i>	0	0.5	6.6	0	1.6	8.0
<i>Oncaea mediterranea</i>	0.3	4.8	39.2	2.6	19.7	37.6
<i>Oncaea venusta</i>	1.2	17.7	38.5	2.0	9.0	36.1
<i>Sapphirina metallina</i>	0	0	0.2	0	0	0
<i>Sapphirina nigromaculata</i>	0	0.5	0	0	0.3	0.8
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.3	0.5	0.4	0.6	0.3	0.8

TABLE 8. CONT.'D

<i>Clytemnestra scutellata</i>	0	0	0.2	0	0.3	0
<i>Macrosetella gracilis</i>	0	1.3	0.4	1.8	1.7	0
Benthic Harpacticoid Females	25.3	0.5	0.9	3.7	0	11.2

TABLE 8. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	535.1	214.5	407.5	825.3	418.9	228.9
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0.1	0.8	0.3	0	1.6
<i>Acartia tonsa</i>	18.8	0.3	0	1.0	0	0
<i>Acrocalanus andersoni</i>	0.2	2.6	4.3	0	0	4.1
<i>Acrocalanus longicornis</i>	0	0.5	0.4	0.7	0	0
<i>Aetideus acutus</i>	0	0.9	1.4	0	0.3	0.5
<i>Calanopia americana</i>	0	1.0	1.6	0	9.3	0
<i>Calanus tenuicornis</i>	0	1.5	0.8	0	0	2.0
<i>Calocalanus pavo</i>	0.2	0.6	3.0	0	0.8	3.3
<i>Calocalanus pavoninus</i>	0	0.8	1.7	0	0.3	1.2
<i>Calocalanus styliremis</i>	0.7	1.5	5.8	1.0	3.4	1.3
<i>Calocalanus sp. 1</i>	0	0.1	0.3	0	0	0
<i>Calocalanus sp. 2</i>	0	0	0.4	0	0	0
<i>Calocalanus sp. 3</i>	0	0.6	0.7	0	0	2.5
<i>Calocalanus sp. 4</i>	0	0.3	0.9	0	0.3	0.6
<i>Candacia curta</i>	0	0.5	0.3	0	0	0
<i>Centropages hamatus</i>	45.7	0	0	2.9	0	0
<i>Centropages velificatus</i>	3.7	0.7	0.4	2.9	1.3	0
<i>Clausocalanus arcuicornis</i>	0	0.5	2.1	0.3	0.8	1.6
<i>Clausocalanus furcatus</i>	3.2	6.5	13.2	18.2	19.7	5.1
<i>Clausocalanus jobei</i>	19.0	11.5	35.0	68.0	19.8	13.8
<i>Clausocalanus mastigophorus</i>	0	0.6	2.3	0	0.3	0.5
<i>Clausocalanus parapergens</i>	0	1.3	3.9	0	1.7	8.3

TABLE 8. CONT.'D

<i>Clausocalanus paululus</i>	0	0	0.5	0	0	0.8
<i>Clausocalanus pergens</i>	0	0.4	1.1	0	1.1	6.0
<i>Ctenocalanus vanus</i>	0.7	9.6	13.9	0	4.8	30.5
<i>Eucalanus crassus</i>	0	0	0	0	0	0.1
<i>Eucalanus hyalinus</i>	0	0.1	0.4	0	0	0.3
<i>Eucalanus monachus</i>	0	0	0.4	0	0.3	0.2
<i>Eucalanus pileatus</i>	1.4	1.4	3.0	2.2	3.9	0.6
<i>Eucalanus sewelli</i>	0	0	0.9	0	0	0.6
<i>Euchaeta marina</i>	0	0.6	0.6	0	0	0
<i>Euchaeta media</i>	0	0.1	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	1.2	3.2	0.3	0.3	0.6
<i>Euchaeta pubera</i>	0	0	0	0	0	0.2
<i>Euchirella rostrata</i>	0	0	0	0	0	0.2
<i>Haloptilus longicornis</i>	0	0.4	0.2	0	0	0.6
<i>Heterorhabdus papilliger</i>	0	0.2	0.3	0	0	0.6
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0.5	0	0.3	0	0.5
<i>Labidocera aestiva</i>	2.5	0.5	0	0	0	0
<i>Lucicutia flavicornis</i>	0.5	8.6	20.4	0	5.1	20.0
<i>Lucicutia gaussae</i>	0	0.2	0.7	0.3	1.0	0.8
<i>Lucicutia paraclausi</i>	1.1	0.1	0.4	0	0	0
<i>Mecynocera clausii</i>	0	1.5	2.4	0	1.9	3.8
<i>Nannocalanus minor</i>	2.7	8.0	20.6	4.8	1.9	8.0
<i>Neocalanus gracilis</i>	0	0	0	0	0	0.3
<i>Paivella inaciae</i>	0	0	0	0	0	0.1
<i>Paracalanus aculeatus</i>	24.9	18.2	57.9	10.9	32.9	3.2

TABLE 8. CONT.'D

<i>Paracalanus denudatus</i>	0,2	0,8	0,4	0	0	1.1
<i>Paracalanus indicus</i>	151.1	39,4	53,6	267.6	151.6	3.2
<i>Paracalanus quasimodo</i>	110.5	22.3	14.9	254,9	58.1	0.4
<i>Paracalanus nudus</i>	0.7	0	0	0	0	0
<i>Paracandacia bispinosa</i>	0	0	0.3	0	0	0
<i>Paracandacia simplex</i>	0	0	0.3	0	0	0.2
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0.1
<i>Phaenna spinifera</i>	0	0	0.3	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0.3	0	0	0.5
<i>Pleuromamma gracilis</i>	0	0.2	0.3	0	0	4.2
<i>Pleuromamma piseki</i>	0	0.1	0.3	0	0	3.6
<i>Pontellina plumata</i>	0	0	0.3	0	0	0
<i>Rhincalanus cornutus</i>	0	1.4	0.9	0.3	0	0.9
<i>Scaphocalanus brevisrostris</i>	0	0	0	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0.2	0.4	0	0	1.0
<i>Scolecithricella ctenopus</i>	0	0	0	0	0	0.2
<i>Scolecithricella dentata</i>	0	0	0.3	0	0	0.8
<i>Scolecithricella tenuiserrata</i>	0	0.3	0.5	0	0	0.1
<i>Scolecithrix bradyi</i>	0	0	0.3	0	0	0.5
<i>Scolecithrix danae</i>	0	0.5	0.6	0	0	0.3
<i>Stephos deichmannae</i>	0	0	0	0.3	0	0
<i>Temora stylifera</i>	0.2	0.5	0.7	1.6	0.8	0
<i>Temora turbinata</i>	97.7	1.8	2.1	40.0	3.4	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0.2
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0.1	0.4	0	0	0.3

TABLE 8. CONT.'D

<i>Copilia mirabilis</i>	0	0	0	0.3	0	0
<i>Corycaeus amazonicus</i>	6.2	3.6	3.7	11.8	3.5	0
<i>Corycaeus americanus</i>	9.4	1.4	0.6	14.5	2.6	0.2
<i>Corycaeus clausi</i>	0	0.4	0.7	0	0.5	0.6
<i>Corycaeus flaccus</i>	0	0	0.2	0	0	0.2
<i>Corycaeus furcifer</i>	0	0	0	0	0	0.2
<i>Corycaeus giesbrechti</i>	0.5	1.5	1.5	0.7	0.8	0.7
<i>Corycaeus latus</i>	0	0.2	0	0.6	0	0
<i>Corycaeus limbatus</i>	0	0	0.8	0	0	0.5
<i>Corycaeus minimus</i>	0	0	0	0	0	0.1
<i>Corycaeus speciosus</i>	0	0	0.4	0.3	0	0
<i>Corycaeus typicus</i>	0	1.3	0	0	0	0.9
<i>Farranula gracilis</i>	0	0.2	0.4	0.3	1.6	0.1
<i>Farranula rostrata</i>	0	0	0.2	0	0	0
<i>Lichomolgus</i> sp. 1	9.1	0.7	0.4	10.8	2.6	0.2
<i>Lubbockia squillimana</i>	0	0.3	0	0	0.5	0.2
<i>Oithona decipiens</i>	0	0.1	0.3	0	0	0
<i>Oithona hebes</i>	0	0.1	0	0	0	0
<i>Oithona nana</i>	0	0	0.3	0	0	0
<i>Oithona plumifera</i>	7.3	18.2	46.9	11.6	29.3	23.6
<i>Oithona robusta</i>	0	0	0	0	0	0.8
<i>Oithona setigera</i>	0	0.7	0.5	0	0.3	7.9
<i>Oithona similis</i>	0	0.1	0.4	0	0.3	0.4
<i>Oithona simplex</i>	0	0	0.3	0	0	0
<i>Oithona tenuis</i>	0	1.6	1.5	0	0.8	5.4
<i>Oithona vivida</i>	0	0.1	0	0	0	0

TABLE 8. CONT.'D

Oithona sp. 1	0	1.3	2.7	0	0.8	1.5
Oncaea conifera	0.5	3.3	5.6	0.3	0	6.7
Oncaea media	0	0.7	2.1	2.6	1.8	1.3
Oncaea mediterranea	4.8	12.1	34.5	19.9	23.9	28.6
Oncaea venusta	5.3	11.4	16.9	48.0	16.4	4.6
Sapphirina auronitens	0	0	0	0	0	0.2
Sapphirina metallina	0	0.1	0.5	0	0	0
Sapphirina nigromaculata	0	0	0.2	0	0	0
Siphonostomata sp. 1	0	0	0	0	0	0.2
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	1.6	0	0.4	0.3	0.8	0
Clytemnestra scutellata	0	0.5	1.0	0.3	0.3	0.1
Macrosetella gracilis	0.5	1.1	1.7	8.7	4.5	0.8
Benthic Harpacticoid females	4.3	1.6	0.4	15.0	2.1	0.3

TABLE 8. CONT.'D

## MARCH CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	545.6	444.1	272.8
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.5	0.7
<i>Acartia tonsa</i>	105.4	67.4	2.6
<i>Acrocalanus andersoni</i>	0	0.8	1.1
<i>Aetideus acutus</i>	0	0	0.5
<i>Anomalocera ornata</i>	0	0.5	0.2
<i>Calanus tenuicornis</i>	0	0	0.9
<i>Calocalanus pavo</i>	0	2.7	0.4
<i>Candacia bipinnata</i>	0	0	0.5
<i>Candacia curta</i>	0	0	0.4
<i>Centropages hamatus</i>	253.4	0.4	0
<i>Centropages velificatus</i>	0.4	1.7	0.7
<i>Clausocalanus arcuicornis</i>	0	0	0.5
<i>Clausocalanus furcatus</i>	0.3	4.6	2.4
<i>Clausocalanus jobei</i>	1.3	26.7	35.5
<i>Clausocalanus mastigophorus</i>	0	1.2	0.2
<i>Clausocalanus parapergens</i>	0	0	0.7
<i>Clausocalanus pergens</i>	0	0	1.1
<i>Ctenocalanus vanus</i>	0.7	2.6	14.3
<i>Eucalanus crassus</i>	0	0	0.5
<i>Eucalanus hyalinus</i>	0	0.4	0.9
<i>Eucalanus monachus</i>	0	0.5	0



TABLE 8. CONT.'D

<i>Eucalanus pileatus</i>	3.1	5.0	5.2
<i>Eucalanus sewelli</i>	0	0	3.7
<i>Euchaeta marina</i>	0	0.4	0.7
<i>Euchaeta paraconcinna</i>	0	0.9	1.8
<i>Heterorhabdus papilliger</i>	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	0.2
<i>Labidocera aestiva</i>	1.0	0.4	0.2
<i>Lucicutia flavicornis</i>	0	0.9	8.5
<i>Lucicutia gaussae</i>	0	0	0.5
<i>Lucicutia paraclausi</i>	0	0	0.7
<i>Mecynocera clausii</i>	0	0	0.2
<i>Nannocalanus minor</i>	0.4	9.7	5.9
<i>Neocalanus gracilis</i>	0	0.4	0.7
<i>Paracalanus aculeatus</i>	2.2	3.9	11.0
<i>Paracalanus denudatus</i>	0	0.4	0
<i>Paracalanus indicus</i>	31.2	120.3	42.6
<i>Paracalanus quasimodo</i>	123.0	79.1	34.3
<i>Paracandacia simplex</i>	0	0	0.2
<i>Parundinella spinodenticula</i>	0	0	0.4
<i>Rhincalanus cornutus</i>	2.1	2.0	1.1
<i>Scaphocalanus subcurtus</i>	0	0	0.2
<i>Scolecithrix danae</i>	0	1.2	1.7
<i>Temora stylifera</i>	1.5	2.4	0.5
<i>Temora turbinata</i>	5.6	6.5	0.2
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	0.4	0.5

TABLE 8. CONT. 'D

<i>Corycaeus amazonicus</i>	1.1	2.9	1.1
<i>Corycaeus americanus</i>	4.6	3.6	1.6
<i>Corycaeus giesbrechti</i>	0	2.8	3.7
<i>Farranula gracilis</i>	0	0	0.2
<i>Farranula rostrata</i>	0	0	0.2
<i>Lichomolgus</i> sp. 1	0	3.7	0.9
<i>Oithona nana</i>	0.4	0	0
<i>Oithona plumifera</i>	0.3	10.6	4.1
<i>Oithona setigera</i>	0	0	0.2
<i>Oithona similis</i>	0.4	0.5	1.1
<i>Oithona</i> sp. 1	0	0	1.8
<i>Oncaea conifera</i>	0.4	0	1.6
<i>Oncaea media</i>	1.1	7.4	3.7
<i>Oncaea mediterranea</i>	2.6	22.5	30.2
<i>Oncaea venusta</i>	3.2	38.8	35.3
<i>Sapphirina intestinata</i>	0	0	0.2
<i>Sapphirina nigromaculata</i>	0	0.9	0.9
<i>Sapphirina opalina</i>	0	0	0.2
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0	0	0.2
<i>Clytemnestra scutellata</i>	0	0.4	0.5
<i>Macrosetella gracilis</i>	0	0.8	0
Benthic Harpacticoid females	0.3	6.3	1.1

TABLE 8. CONT.'D

APRIL CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	1308.4	495.9	188.7
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	14.0	2.9
<i>Acartia tonsa</i>	56.5	14.4	9.5
<i>Acrocalanus andersoni</i>	0	0	0.1
<i>Acrocalanus longicornis</i>	0	0	0.2
<i>Aetideus acutus</i>	0	0	1.0
<i>Bradyidius arnoldi</i>	0	0.3	0
<i>Calanus tenuicornis</i>	0	0	1.1
<i>Calocalanus pavo</i>	0	3.4	2.1
<i>Calocalanus pavoninus</i>	0	0	0.5
<i>Calocalanus styliremis</i>	0	0.9	0.7
<i>Calocalanus sp. 1</i>	0	0	0.1
<i>Calocalanus sp. 2</i>	0	0	0.5
<i>Calocalanus sp. 3</i>	0	0	0.6
<i>Calocalanus sp. 4</i>	0	0	0.5
<i>Candacia curta</i>	0	0	0.2
<i>Centropages velificatus</i>	2.9	2.4	0.2
<i>Clausocalanus arcuicornis</i>	0	0.3	2.7
<i>Clausocalanus furcatus</i>	1.0	30.7	17.3
<i>Clausocalanus jobei</i>	0	4.3	4.7
<i>Clausocalanus mastigophorus</i>	0	0	0.1
<i>Clausocalanus parapergens</i>	0	1.0	7.3

TABLE 8. CONT.'D

<i>Clausocalanus paululus</i>	0	0	0.2
<i>Clausocalanus pergens</i>	0	0	5.3
<i>Ctenocalanus vanus</i>	0	0.3	17.8
<i>Eucalanus pileatus</i>	3.9	2.2	0.3
<i>Eucalanus sewelli</i>	0	0	0.2
<i>Haloptilus longicornis</i>	0	0	1.9
<i>Heterorhabdus papilliger</i>	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	0.3
<i>Labidocera aestiva</i>	0	0.3	0.3
<i>Lucicutia flavicornis</i>	0	0	3.3
<i>Lucicutia gaussae</i>	0	0	0.2
<i>Lucicutia gemina</i>	0	0	0.2
<i>Lucicutia paraclausi</i>	0	0	0.2
<i>Mecynocera clausii</i>	0	0	2.5
<i>Nannocalanus minor</i>	0	0.3	0.3
<i>Paivella inaciae</i>	0	0	0.2
<i>Paracalanus aculeatus</i>	1.0	4.5	1.1
<i>Paracalanus crassirostris</i>	1.0	0.9	0
<i>Paracalanus denudatus</i>	0	0	0.3
<i>Paracalanus indicus</i>	1041.7	178.0	7.1
<i>Paracalanus quasimodo</i>	66.8	149.5	18.1
<i>Pleuromamma abdominalis</i>	0	0	0.2
<i>Pleuromamma gracilis</i>	0	0	0.7
<i>Pleuromamma piseki</i>	0	0	0.8
<i>Rhincalanus cornutus</i>	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0.9
<i>Scolecithricella ctenopus</i>	0	0	0.2

TABLE 8. CONT.'D

<i>Scolecithricella dentata</i>	0	0	0.1
<i>Scolecithricella tenuiserrata</i>	0	0	0.7
<i>Scolecithrix bradyi</i>	0	0	1.1
<i>Temora stylifera</i>	5.9	0	0.2
<i>Temora turbinata</i>	37.0	0.3	0
<i>Temoropia mayumbaensis</i>	0	0	0.6
<u>CYCLOPOIDA</u>			
<i>Copilia lata</i>	0	0	0.2
<i>Copilia mirabilis</i>	0	0	0.1
<i>Corycaeus amazonicus</i>	36.5	20.1	1.7
<i>Corycaeus americanus</i>	42.2	26.2	0.3
<i>Corycaeus clausi</i>	0	0	0.5
<i>Corycaeus flaccus</i>	0	0	0.2
<i>Corycaeus giesbrechti</i>	0	1.8	0.8
<i>Corycaeus latus</i>	0	0	0.1
<i>Corycaeus minimus</i>	0	0	0.2
<i>Corycaeus speciosus</i>	0	0.3	0.1
<i>Farranula gracilis</i>	0	1.5	5.3
<i>Lichomolgus</i> sp. 1	0	1.2	0.2
<i>Lubbockia squillimana</i>	0	0	0.5
<i>Oithona decipiens</i>	0	0	0.1
<i>Oithona plumifera</i>	2.0	3.8	6.5
<i>Oithona robusta</i>	0	0	2.2
<i>Oithona setigera</i>	0	0	12.5
<i>Oithona similis</i>	1.0	0.9	0
<i>Oithona tenuis</i>	0	0	0.2
<i>Oithona vivida</i>	0	0	0.2

TABLE 8. CONT.'D

Oithona sp. 1	1.0	0	8.7
Oncaea conifera	0	0.3	4.7
Oncaea media	0	4.5	4.3
Oncaea mediterranea	0	3.1	17.1
Oncaea venusta	0	17.6	4.0
Sapphirina angusta	0	0	0.1
Sapphirina ovatolanceolata	0	0	0.1
<u>HARPACTICOIDA</u>			
Clytemnestra rostrata	3.0	1.5	0.2
Macrosetella gracilis	0	0	0.1
Benthic harpacticoid females	3.0	5.1	0

TABLE 8. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
Average No./m <sup>3</sup>	1268.5	985.5	151.7	2840.4	750.7	200.2
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.7	4.0	2.8	0	4.6	2.5
<i>Acartia tonsa</i>	58.3	0	0.2	787.5	20.6	0.3
<i>Acrocalanus andersoni</i>	0	0	0.2	0	0	0.5
<i>Aetideus acutus</i>	0	0	0.8	0	0	0.5
<i>Bradyidius arnoldi</i>	0	0	0.1	0	0	0
<i>Calanopia americana</i>	4.5	0	0.2	0	0	0
<i>Calanus tenuicornis</i>	0	0	0.6	0	0	1.2
<i>Calocalanus pavo</i>	0	0.8	1.9	0	1.1	3.0
<i>Calocalanus pavoninus</i>	0	1.6	0.3	0	0	0.3
<i>Calocalanus styliremis</i>	0	0.8	0.2	0	0	0
<i>Calocalanus sp. 1</i>	0	0	0	0	0	0.3
<i>Calocalanus sp. 3</i>	0	0	0.1	0	0	0.3
<i>Calocalanus sp. 4</i>	0	0	0.1	0	0	0
<i>Candacia curta</i>	0.8	0	0.4	0	1.1	1.2
<i>Candacia varicans</i>	0	0	0	0	0	0.2
<i>Centropages velificatus</i>	150.7	22.3	2.0	24.1	2.3	4.7
<i>Clausocalanus arcuicornis</i>	0	0	0.2	0	0	1.7
<i>Clausocalanus furcatus</i>	18.4	255.1	7.5	6.9	75.7	34.3
<i>Clausocalanus jobei</i>	0	115.6	6.0	14.1	51.5	5.9
<i>Clausocalanus parapergens</i>	0	0	0.8	0	0	0.5
<i>Clausocalanus paululus</i>	0	0	0.2	0	0	0.2

TABLE 8. CONT.'D

<i>Clausocalanus pergens</i>	0	0	0.1	0	0	0.3
<i>Ctenocalanus vanus</i>	0	0.8	5.3	0	0	4.0
<i>Eucalanus hyalinus</i>	0	0	0.2	0	0	0.2
<i>Eucalanus pileatus</i>	136.9	40.6	5.9	4.1	14.9	1.7
<i>Eucalanus sewelli</i>	0	0	0.1	0	0	0.2
<i>Euchaeta marina</i>	0	0	0	0	0	0.2
<i>Euchaeta media</i>	0	0	0	0	0	0.2
<i>Euchaeta paraconcinna</i>	0	4.8	0	0	0	0.3
<i>Haloptilus longicornis</i>	0	0	0.5	0	0	0.8
<i>Haloptilus paralongicirrus</i>	0	0	0	0	0	0.3
<i>Heterorhabdus papilliger</i>	0	0	0.6	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0.8	0.1	0	0	0.3
<i>Labidocera aestiva</i>	23.5	0	0.2	8.2	3.4	0.7
<i>Labidocera scotti</i>	1.5	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	3.0	0	0	6.0
<i>Lucicutia gaussae</i>	0	0	0.5	0	0	0.3
<i>Lucicutia gemina</i>	0	0	0.2	0	0	0.2
<i>Lucicutia paraclausi</i>	0	8.7	2.6	0	2.3	0
<i>Mecynocera clausii</i>	0	0	1.8	5.6	0	5.5
<i>Nannocalanus minor</i>	0.8	5.6	1.5	0	0	3.0
<i>Paivella inaciae</i>	0	0	0.2	0	0	0.2
<i>Paracalanus aculeatus</i>	9.3	73.4	2.1	2.8	12.6	0.5
<i>Paracalanus denudatus</i>	0	0	0.1	0	0	0
<i>Paracalanus indicus</i>	43.7	93.5	14.8	688.5	112.1	5.7
<i>Paracalanus quasimodo</i>	135.2	28.7	7.3	490.4	138.4	11.3
<i>Paracalanus nudus</i>	0	0	0	0	0	0.2
<i>Paracandacia simplex</i>	0	0	0	0	0	0.7



TABLE 8. CONT.'D

<i>Parundinella spinodenticula</i>	0	0	1.1	0	0	0.3
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0.3
<i>Pleuromamma gracilis</i>	0	0	0.1	0	0	1.5
<i>Pleuromamma piseki</i>	0	0	0.1	0	0	1.3
<i>Rhincalanus cornutus</i>	0	0	0.4	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0.5	0	0	0.2
<i>Scolecithricella ctenopus</i>	0	0	0.1	0	0	0
<i>Scolecithricella dentata</i>	0	0	0.2	0	0	0.5
<i>Scolecithricella tenuiserrata</i>	0	0	0.3	0	0	0.2
<i>Scolecithrix bradyi</i>	0	0	0.8	0	0	0.8
<i>Scolecithrix danae</i>	0	0	0	0	0	0.2
<i>Temora stylifera</i>	7.3	4.0	0.9	0	14.9	3.3
<i>Temora turbinata</i>	529.7	12.7	0.2	71.3	126.0	0.2
<i>Temoropia mayumbaensis</i>	0	0	0.5	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0.2
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0.1	0	0	0
<i>Copilia mirabilis</i>	0	1.6	0.3	0	0	0.3
<i>Corycaeus amazonicus</i>	76.2	44.7	3.6	218.4	38.8	9.4
<i>Corycaeus americanus</i>	14.7	16.8	2.8	477.6	59.4	4.2
<i>Corycaeus clausi</i>	0	0	0.1	0	0	0.2
<i>Corycaeus flaccus</i>	0	0	0.3	0	0	0
<i>Corycaeus giesbrechti</i>	16.0	2.4	0.7	0	1.2	1.0
<i>Corycaeus limbatus</i>	0	0	0.4	0	0	0.7
<i>Corycaeus minimus</i>	0	0	0.4	0	0	0.8
<i>Corycaeus typicus</i>	0	0	0.4	0	0	0.7
<i>Farranula gracilis</i>	4.2	7.1	1.1	0	4.6	0
<i>Farranula rostrata</i>	0	0	0.2	0	0	0

TABLE 8. CONT.'D

Lichomolgus sp. 1	0	0	0.6	0	1.1	0.5
Lubbockia squillimana	0	0.8	0.3	0	0	0.5
Oithona hamata	0	0	0	0	0	0.3
Oithona hebes	0.7	0	0	0	0	0
Oithona nana	0.7	0	0	0	0	0
Oithona plumifera	0	36.2	6.5	2.8	17.2	6.2
Oithona robusta	0	0	1.0	0	0	0.8
Oithona setigera	0	0	11.5	0	0	12.8
Oithona similis	0	0	0.3	0	0	0.2
Oithona tenuis	0	0	0.1	0	0	0.7
Oithona sp. 1	0	0	7.9	0	0	4.2
Oncaea conifera	0	0	2.9	0	0	3.9
Oncaea media	0	8.8	1.2	0	0	1.3
Oncaea mediterranea	0	10.4	26.5	5.6	5.7	36.0
Oncaea venusta	12.5	181.0	4.0	0	34.2	4.4
Sapphirina angusta	0	0	0	0	0	0.2
Sapphirina metallina	0	0	0.3	0	0	0
Sapphirina nigromaculata	0	0	0.1	0	0	0.2
Sapphirina ovatolanceolata	0	0	0.3	0	0	0.2
Sapphirina sp. 1	0	0	0.1	0	0	0
<u>HARPACTICOIDA</u>						
Clytemnestra rostrata	0	0	1.0	0	2.3	0.3
Clytemnestra scutellata	0	0	0.3	0	0	0.3
Macrosetella gracilis	1.5	0.8	0.2	0	0	0
Benthic harpacticoid females	20.6	0.8	0	32.6	4.6	0.3

TABLE 8. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	749.1	706.7	219.8	1316.7	894.5	359.6
<u>CALANOIDA</u>						
<i>Acartia danae</i>	3.5	1.7	4.8	1.9	4.2	2.1
<i>Acartia tonsa</i>	7.2	3.7	0.3	1.9	0	0
<i>Acrocalanus andersoni</i>	0	0	0.3	0	0	0.2
<i>Aetideus acutus</i>	0	0	0.3	0	0	0.1
<i>Bradyidius arnoldi</i>	0	3.4	0	0	0	0
<i>Calanopia americana</i>	0	1.4	0	0	0	0.6
<i>Calanus tenuicornis</i>	0	0.3	0.8	0	0.4	0.4
<i>Calocalanus pavo</i>	0	3.9	1.9	1.2	5.8	3.1
<i>Calocalanus pavoninus</i>	0	0.3	0.2	0	0.8	0.2
<i>Calocalanus styliremis</i>	0	0.8	0.2	1.3	0.8	0.3
<i>Calocalanus</i> sp. 2	0	0	0.2	0	0	0.1
<i>Calocalanus</i> sp. 3	0	0	0.1	0	0.4	0.9
<i>Calocalanus</i> sp. 4	0	0	0.1	0	0	0.2
<i>Candacia bipinnata</i>	0	0	0	0	0	0.3
<i>Candacia curta</i>	0	0.6	1.7	0	0	3.8
<i>Centropages velificatus</i>	0.7	0.3	1.8	4.3	17.5	3.5
<i>Clausocalanus arcuicornis</i>	0	0.6	1.2	0	0	4.3
<i>Clausocalanus furcatus</i>	13.3	22.8	5.9	104.7	81.5	16.1
<i>Clausocalanus jobei</i>	2.0	305.7	7.1	38.5	342.5	81.2
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0.4
<i>Clausocalanus parapergens</i>	0	0	0.4	0	0.8	3.8
<i>Ctenocalanus vanus</i>	0	0	1.4	0	0.8	17.9

TABLE 8. CONT.'D

<i>Eucalanus crassus</i>	0	0	0.1	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	0.1
<i>Eucalanus monachus</i>	0	0	0	0	0	0.2
<i>Eucalanus pileatus</i>	13.3	3.0	4.9	4.3	17.8	0.5
<i>Eucalanus sewelli</i>	0	0	0.3	0	0	0.1
<i>Eucalanus subtenuis</i>	0	0	0	0	0	0.3
<i>Euchaeta paraconcinna</i>	0	0.3	1.1	0	0.8	0.7
<i>Haloptilus longicornis</i>	0	0	1.5	0	0	0.5
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.4
<i>Ischnocalanus plumulosus</i>	0	0	0.4	1.3	0	0
<i>Labidocera aestiva</i>	3.9	0.6	0	0	0.4	0.2
<i>Labidocera scotti</i>	0.7	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	1.4	4.3	0	0	6.7
<i>Lucicutia gaussae</i>	0	0.6	0.9	0	0.4	0.2
<i>Lucicutia paraclausi</i>	0	0.8	0	0	0	1.5
<i>Mecynocera clausii</i>	0	0	5.5	0	8.5	2.4
<i>Nannocalanus minor</i>	0	1.4	2.3	0	1.9	9.9
<i>Neocalanus gracilis</i>	0	0	0.2	0	0	0
<i>Paracalanus aculeatus</i>	16.7	5.4	1.7	16.8	16.3	1.9
<i>Paracalanus crassirostris</i>	0	0.6	0	0	0	0
<i>Paracalanus indicus</i>	358.5	37.9	5.3	511.6	75.1	32.2
<i>Paracalanus quasimodo</i>	160.0	35.4	6.8	286.0	87.6	15.3
<i>Paracandacia simplex</i>	0	0	0.3	0	0.8	0.2
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0.1
<i>Pleuromamma piseki</i>	0	0	0.2	0	0	0.1
<i>Pontellina plumata</i>	0	0	0.1	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0.6

TABLE 8. CONT.'D

Scaphocalanus subcurtus	0	0	0.2	0	0	0.3
Scolecithricella tenuiserrata	0	0	0.7	0	0	0.9
Scolecithrix bradyi	0	0	0.5	0	0	0.1
Scolecithrix danae	0	0	0.1	0	0	0.6
Temora stylifera	5.2	3.4	1.3	1.9	3.9	4.4
Temora turbinata	39.5	27.9	4.2	138.0	19.8	1.0
Undinula vulgaris	0	0	0.1	0	0	0.1
<u>CYCLOPOIDA</u>						
Copilia lata	0	0	0.4	0	0.4	0
Copilia mirabilis	0	0	0.2	0	0.4	0.2
Corycaeus amazonicus	31.9	28.6	8.6	26.4	22.8	9.7
Corycaeus americanus	74.1	89.2	15.5	113.9	56.1	27.6
Corycaeus clausi	0	0	0.6	0	0	0
Corycaeus flaccus	0	0	0.2	0	0	0
Corycaeus giesbrechti	0	1.4	1.1	0.6	1.5	2.3
Corycaeus lautus	0	0	0.2	0	0	0
Corycaeus limbatus	0	0	0	0	0	0.1
Corycaeus minimus	0	0	0	0	0.4	0.6
Corycaeus typicus	0	0	0.3	0	0	0.6
Farranula gracilis	0.7	0	1.1	0.6	4.6	4.0
Farranula rostrata	0	0	0.2	0	0	0.1
Lichomolgus sp. 1	0	4.8	0.4	0	0	1.8
Lubbockia squillimana	0	0.3	1.8	0	0	0.5
Oithona hamata	0	0	0.1	0	0	0
Oithona hebes	0	1.4	0	0	0	0
Oithona plumifera	1.5	32.0	17.4	16.0	33.7	21.2
Oithona robusta	0	0	0.2	0	0	1.7
Oithona setigera	0	0.6	11.6	0	0	14.7

TABLE 8. CONT.'D

<i>Oithona similis</i>	0	0	0	0	0	0.6
<i>Oithona tenuis</i>	0	0	0.7	0	0.4	0
<i>Oithona</i> sp. 1	0	3.9	5.7	0	0	10.6
<i>Oncaea conifera</i>	0	1.7	1.5	2.5	0	3.5
<i>Oncaea media</i>	0	1.4	1.7	0	1.2	0.9
<i>Oncaea mediterranea</i>	0	36.9	65.7	6.2	43.8	31.4
<i>Oncaea venusta</i>	3.3	28.9	10.8	30.6	39.2	2.9
<i>Sapphirina metallina</i>	0	0	0.2	0	0	0.3
<i>Sapphirina nigromaculata</i>	0	0	0	0	0.4	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	2.0	0	0.4	0	0	1.3
<i>Clytemnestra scutellata</i>	0	0	0.3	0.6	0	0.9
<i>Macrosetella gracilis</i>	0	0	0.2	0.6	0.8	0.1
Benthic harpacticoid females	10.9	11.8	0.3	5.0	0	0.3

TABLE 8. CONT.'D

## JULY CRUISE

Transect	II		
	1	2	3
Station			
Average No./M <sup>3</sup>	787.0	388.0	279.9
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.7	2.9
<i>Acrocalanus longicornis</i>	1.4	1.9	0.3
<i>Aetideus acutus</i>	0	0	0.2
<i>Calanopia americana</i>	6.6	0	0
<i>Calanus tenuicornis</i>	0	0	0.3
<i>Calocalanus pavo</i>	1.5	2.6	2.3
<i>Calocalanus pavoninus</i>	0	7.3	3.3
<i>Calocalanus styliremis</i>	0.7	4.6	3.0
<i>Calocalanus sp.1</i>	0	0	0.3
<i>Calocalanus sp.2</i>	0.8	0	0
<i>Calocalanus sp.3</i>	0	0.3	0.5
<i>Candacia curta</i>	0.8	0.4	0.3
<i>Centropages caribbeanensis</i>	0	0.4	0.3
<i>Centropages velificatus</i>	51.8	4.3	0.8
<i>Clausocalanus arcuicornis</i>	0	0	0.6
<i>Clausocalanus furcatus</i>	316.7	121.5	23.6
<i>Clausocalanus jobei</i>	25.4	1.6	41.0
<i>Clausocalanus parapergens</i>	0.4	0	0
<i>Ctenocalanus vanus</i>	0	0	1.1
<i>Eucalanus pileatus</i>	4.9	0.1	0.6

TABLE 8. CONT.'D

<i>Euchaeta marina</i>	0	0.4	0
<i>Euchaeta paraconcinna</i>	0	0.3	2.8
<i>Haloptilus longicornis</i>	0	0	0.6
<i>Heterorhabdus papilliger</i>	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0.4	0.4
<i>Labidocera acutifrons</i>	0	0	0.2
<i>Lucicutia flavicornis</i>	0	0	5.5
<i>Lucicutia gaussae</i>	0	0	0.6
<i>Lucicutia paraclausi</i>	0	0.3	0.5
<i>Mecynocera clausii</i>	0	1.6	2.9
<i>Nannocalanus minor</i>	2.2	1.6	8.1
<i>Paracalanus aculeatus</i>	7.5	5.2	1.1
<i>Paracalanus denudatus</i>	0	0	0.5
<i>Paracalanus indicus</i>	2.3	0.8	3.4
<i>Paracalanus quasimodo</i>	68.0	4.1	9.0
<i>Paracalanus nudus</i>	0	0	0.2
<i>Paracandacia simplex</i>	0	0.1	0.4
<i>Pleuromamma gracilis</i>	0	0	0.3
<i>Scaphocalanus subcurtus</i>	0	0	0.5
<i>Scolecithricella ctenopus</i>	0	0	0.2
<i>Scolecithrix bradyi</i>	0	0	0.6
<i>Scolecithrix danae</i>	0	0.1	0.3
<i>Temora stylifera</i>	6.4	3.0	7.3
<i>Temora turbinata</i>	110.2	0.5	4.2
<i>Undinula vulgaris</i>	0.4	0.3	0

CYCLOPOIDA



TABLE 8. CONT.'D

<i>Copilia mirabilis</i>	0.4	0	0.2
<i>Corissa parva</i>	0	0	0.3
<i>Corycaeus amazonicus</i>	1.9	1.1	0.7
<i>Corycaeus americanus</i>	0.4	0.1	0.2
<i>Corycaeus flaccus</i>	0	0	0.2
<i>Corycaeus giesbrechti</i>	16.1	3.8	5.3
<i>Corycaeus latus</i>	1.8	0.7	0.6
<i>Corycaeus speciosus</i>	0	0.7	0.3
<i>Corycaeus typicus</i>	0	0	0.3
<i>Farranula gracilis</i>	105.6	127.9	21.0
<i>Farranula rostrata</i>	0	0	0.3
<i>Lubbockia squillimana</i>	0	0.1	1.0
<i>Oithona plumifera</i>	28.4	42.5	13.4
<i>Oithona robusta</i>	0	0	0.5
<i>Oithona setigera</i>	0	0	1.7
<i>Oithona similis</i>	0	0	0.2
<i>Oithona tenuis</i>	0	0	0.2
<i>Oithona vivida</i>	0	0	0.3
<i>Oithona sp.1</i>	0	0	1.8
<i>Oncaea conifera</i>	0	0.8	5.3
<i>Oncaea media</i>	7.1	3.4	6.1
<i>Oncaea mediterranea</i>	0.4	4.5	59.8
<i>Oncaea venusta</i>	15.7	33.8	24.8
<i>Sapphirina nigromaculata</i>	0.7	0.5	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0	0	0.2

TABLE 8. CONT.'D

<i>Clytemnestra scutellata</i>	0	0.1	0.3
<i>Macrosetella gracilis</i>	0	3.3	2.9
<i>Microsetella rosea</i>	0	0	0.2
Benthic harpacticoid females	0.4	0	0

TABLE 8. CONT.'D

## AUGUST CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	741.6	550.3	262.2
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0	2.7
<i>Acrocalanus andersoni</i>	0	0	1.5
<i>Acrocalanus longicornis</i>	2.8	15.9	2.7
<i>Aetideus acutus</i>	0	0	0.5
<i>Calanopia americana</i>	6.0	0	1.0
<i>Calanus tenuicornis</i>	0	0	1.7
<i>Calocalanus pavo</i>	1.1	12.9	4.9
<i>Calocalanus pavoninus</i>	0.6	12.6	2.5
<i>Calocalanus styliremis</i>	0	0.3	0.3
<i>Calocalanus sp.3</i>	0	0	0.8
<i>Calocalanus sp.4</i>	0	0	0.2
<i>Candacia curta</i>	0	0.3	0
<i>Candacia bipinnata</i>	0	0	0.2
<i>Centropages velificatus</i>	4.9	4.9	0.5
<i>Clausocalanus arcuicornis</i>	0	0	1.3
<i>Clausocalanus furcatus</i>	359.6	228.2	31.4
<i>Clausocalanus jobei</i>	0	0.3	14.5
<i>Clausocalanus mastigophorus</i>	0	0	0.2
<i>Clausocalanus parapergens</i>	0	0	0.5
<i>Ctenocalanus vanus</i>	0	0	7.4

TABLE 8. CONT.'D

<i>Euaugaptilus hecticus</i>	0	0	0.2
<i>Eucalanus pileatus</i>	1.1	0.6	0.2
<i>Euchaeta marina</i>	0	0	0.3
<i>Haloptilus acutifrons</i>	0	0	0.2
<i>Haloptilus longicornis</i>	0	0	1.9
<i>Heterorhabdus papilliger</i>	0	0	0.2
<i>Heterorhabdus spinifer</i>	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	1.0
<i>Lucicutia flavicornis</i>	0	0	7.6
<i>Lucicutia gaussae</i>	0	0	0.8
<i>Lucicutia paraclausi</i>	0	0	0.2
<i>Mecynocera clausii</i>	0	0	6.9
<i>Nannocalanus minor</i>	0	2.9	0.8
<i>Paracalanus aculeatus</i>	5.4	8.1	1.7
<i>Paracalanus denudatus</i>	0	0	0.5
<i>Paracalanus indicus</i>	4.5	2.9	0.8
<i>Paracalanus quasimodo</i>	18.9	22.7	1.5
<i>Paracandacia simplex</i>	0	0.3	0.7
<i>Parundinella spinodenticula</i>	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0.7
<i>Scolecithricella ctenopus</i>	0	0	0.7
<i>Scolecithricella dentata</i>	0	0	0.3
<i>Scolecithricella tenuiserrata</i>	0	0	0.2
<i>Scolecithrix bradyi</i>	0	0	0.5
<i>Scolecithrix danae</i>	0	0	0.3

TABLE 8. CONT.'D

<i>Temora stylifera</i>	0.6	6.8	4.9
<i>Temora turbinata</i>	74.9	36.9	7.4
<i>Undinula vulgaris</i>	0	1.0	0.5
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	1.3	0.2
<i>Corycaeus amazonicus</i>	0	0	0.2
<i>Corycaeus clausi</i>	0	0	0.3
<i>Corycaeus giesbrechti</i>	32.9	0.6	4.4
<i>Corycaeus latus</i>	0	1.0	0.2
<i>Corycaeus limbatus</i>	0	0	0.7
<i>Corycaeus minimus</i>	0	0	0.2
<i>Corycaeus speciosus</i>	0	0.6	0.7
<i>Corycaeus typicus</i>	0	0	0.2
<i>Farranula gracilis</i>	201.3	102.0	23.1
<i>Lubbockia squillimana</i>	0	0	2.4
<i>Oithona hamata</i>	0	0	0.7
<i>Oithona plumifera</i>	13.2	66.4	38.1
<i>Oithona robusta</i>	0	0	1.2
<i>Oithona setigera</i>	0	0	22.1
<i>Oithona tenuis</i>	0	0	1.3
<i>Oithona sp.1</i>	0	0	1.9
<i>Oncaea conifera</i>	0	0	2.5
<i>Oncaea media</i>	5.7	7.1	1.7
<i>Oncaea mediterranea</i>	0	0	37.6
<i>Oncaea venusta</i>	8.2	11.0	4.7
<i>Sapphirina nigromaculata</i>	0	1.3	0

TABLE 8. CONT.'D

<i>Sapphirina ovatolanceolata</i>	0	0.6	0.3
<i>Siphonostoma</i> sp.1	0	0	0.2
<u>HARPACTICOIDA</u>			
<i>Clytemnestra scutellata</i>	0	0	0.3
<i>Macrosetella gracilis</i>	0	0.6	1.0

TABLE 8. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	1524.2	411.4	574.9	478.7	799.7	632.1
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	1.9	0	0	0
<i>Acartia lilljeborgii</i>	181.2	0	0	2.6	0	0.8
<i>Acartia tonsa</i>	110.8	0	0	0.4	0	0
<i>Acrocalanus andersoni</i>	0	0	0.3	0	0	2.4
<i>Acrocalanus longicornis</i>	0	1.3	3.7	0.4	6.6	3.7
<i>Aetideus acutus</i>	0	0	0.7	0	0	0.2
<i>Calanopia americana</i>	1.4	0.4	4.1	1.9	6.6	5.0
<i>Calanus tenuicornis</i>	0	0	0.3	0	0	0
<i>Calocalanus pavo</i>	0	0.4	11.5	0	18.6	2.7
<i>Calocalanus pavoninus</i>	0	0	0.7	0	0	0.8
<i>Calocalanus styliremis</i>	0	0	0.9	0	0	1.2
<i>Calocalanus sp. 3</i>	0	0	0.6	0	0	3.3
<i>Calocalanus sp. 4</i>	0	0	0.3	0	0	0
<i>Centropages velificatus</i>	71.1	12.7	0	20.0	9.1	1.8
<i>Clausocalanus arcuicornis</i>	0	0	1.9	0	0	0.4
<i>Clausocalanus furcatus</i>	0	13.9	128.0	0.4	43.2	122.3
<i>Clausocalanus jobei</i>	0	0	73.0	0.4	0	85.5
<i>Clausocalanus parapergens</i>	0	0	2.4	0	0	0.4
<i>Clausocalanus pergens</i>	0	0	0.7	0	0	0
<i>Ctenocalanus vanus</i>	0	0	5.1	0	0	7.6
<i>Eucalanus pileatus</i>	11.2	6.4	0.7	56.8	2.5	1.0

TABLE 8. CONT.'D

<i>Euchaeta paraconcinna</i>	0	0	0	0	0	0.4
<i>Haloptilus longicornis</i>	0	0	1.6	0	0	1.2
<i>Ischnocalanus plumulosus</i>	0	0	0.3	0	0	0.4
<i>Labidocera aestiva</i>	4.3	0	0	0	0	0
<i>Labidocera scotti</i>	76.9	0.4	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	7.7	0	0	11.8
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0.4
<i>Lucicutia gaussae</i>	0	0	0.7	0	0	0
<i>Mecynocera clausii</i>	0	0	5.7	0	0	1.3
<i>Nannocalanus minor</i>	0	0.4	0	0	0	0.4
<i>Paivella inaciae</i>	0	0	0	0	0	1.0
<i>Paracalanus aculeatus</i>	1.4	25.7	23.6	54.7	186.5	16.9
<i>Paracalanus crassirostris</i>	7.1	0.4	0	0	0	0
<i>Paracalanus denudatus</i>	0	0	0.7	0	0	0.9
<i>Paracalanus indicus</i>	32.5	2.3	3.9	43.3	15.1	3.0
<i>Paracalanus quasimodo</i>	284.7	103.6	13.4	188.4	160.2	10.8
<i>Paracalanus spinodenticula</i>	0	0	0	0	0	2.8
<i>Scaphocalanus subcurtus</i>	0	0	1.6	0	0	0.2
<i>Scolecithricella tenuiserrata</i>	0	0	1.0	0	0	0.2
<i>Temora stylifera</i>	0	15.5	0.9	0	4.7	2.2
<i>Temora turbinata</i>	689.9	172.4	2.9	77.1	48.3	17.9
<i>Undinula vulgaris</i>	0	0.4	0	0	0.6	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	0.4
<i>Copilia mirabilis</i>	0	0	1.6	0	2.2	0.2
<i>Corycaeus amazonicus</i>	18.0	8.0	1.3	14.4	18.0	1.6
<i>Corycaeus americanus</i>	0	0	0	0.8	0.9	0.6
<i>Corycaeus furcifer</i>	0	0	0	0	0	0.2



TABLE 8. CONT.'D

<i>Corycaeus giesbrechti</i>	7.0	16.1	11.8	13.4	36.9	25.5
<i>Corycaeus latus</i>	0	0	0.6	0	0.6	0.8
<i>Corycaeus lautus</i>	0	0	0.3	0	0	0
<i>Corycaeus limbatus</i>	0	0	1.0	0	0	1.0
<i>Corycaeus minimus</i>	0	0	0	0	0	0.3
<i>Corycaeus speciosus</i>	0	0	0.3	0	0	0.2
<i>Farranula gracilis</i>	0	3.3	22.2	0.4	55.0	32.6
<i>Farranula rostrata</i>	0	0	0.7	0	0	0.2
<i>Lubbockia squillimana</i>	0	0	1.3	0	0	0.6
<i>Oithona colcarva</i>	1.4	0	0	0	0	0
<i>Oithona hebes</i>	1.4	0	0	0	0	0
<i>Oithona nana</i>	6.9	1.5	0	0.8	0	0
<i>Oithona plumifera</i>	1.4	3.0	123.5	2.2	88.9	106.3
<i>Oithona robusta</i>	0	0	0	0	0	0.2
<i>Oithona setigera</i>	0	0	13.5	0	0	7.3
<i>Oithona tenuis</i>	0	0	1.6	0	0	0.3
<i>Oithona vivida</i>	0	0	0.3	0	0	0
<i>Oithona sp. 1</i>	0	0	2.3	0	0	1.2
<i>Oncaea conifera</i>	0	0	7.9	0	0	2.2
<i>Oncaea media</i>	0	0.4	1.7	0	1.3	2.8
<i>Oncaea mediterranea</i>	0	0.4	48.4	0	0	64.8
<i>Oncaea venusta</i>	0	17.4	31.8	0	74.7	70.4
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0.3
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	1.0	0	0	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.3
<i>Macrosetella gracilis</i>	0	1.7	0.3	0	18.9	0.8
Benthic harpacticoid females	15.6	2.9	0	0.4	0	0

TABLE 8. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Average No./m <sup>3</sup>	48.0	303.4	369.1	177.4	56.5	359.3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	0.1
<i>Acartia lilljeborgii</i>	6.6	0	0	21.5	0	0
<i>Acartia tonsa</i>	1.0	0	0	3.7	0	0
<i>Acrocalanus longicornis</i>	0	5.1	2.6	0	0.1	6.3
<i>Calanopia americana</i>	0	7.0	7.0	12.0	0	1.4
<i>Calocalanus pavo</i>	0	0	2.0	0	0	7.6
<i>Calocalanus pavoninus</i>	0	0	0.6	0	0	9.2
<i>Calocalanus styliremis</i>	0	0.1	0.2	0	0.2	0.6
<i>Candacia curta</i>	0	0	0.4	0	0	0.1
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0.3
<i>Centropages velificatus</i>	5.1	3.9	2.4	37.4	1.8	1.3
<i>Clausocalanus furcatus</i>	0.1	19.9	59.9	0	10.6	132.6
<i>Clausocalanus jobei</i>	0.1	0	2.6	0	0	4.8
<i>Eucalanus pileatus</i>	2.1	0.8	0.2	20.5	0	0
<i>Labidocera scotti</i>	1.3	0	0	3.1	0	0
<i>Lucicutia flavicornis</i>	0	0	0.2	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	0.1
<i>Mecynocera clausii</i>	0	0	0.2	0	0	0
<i>Nannocalanus minor</i>	0	0.1	0	0	0.1	0
<i>Paracalanus aculeatus</i>	0	131.3	49.3	1.1	2.0	12.1
<i>Paracalanus crassirostris</i>	0	0	0	0.4	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0.3

TABLE 8. CONT.'D

<i>Paracalanus indicus</i>	0.7	4.0	0.6	0.6	0	0.5
<i>Paracalanus quasimodo</i>	11.4	12.7	5.8	13.2	1.1	0.2
<i>Paracandacia simplex</i>	0	0	0	0	0	0.3
<i>Paraundinella spinodenticula</i>	0	0	0	0	0	1.3
<i>Temora stylifera</i>	0	0.8	1.0	0	0.1	2.0
<i>Temora turbinata</i>	10.8	6.1	14.4	57.6	0	8.1
<i>Undinula vulgaris</i>	0	0	0	0	0	0.3
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0.3	1.6	0	0.1	0.2
<i>Corycaeus amazonicus</i>	5.3	3.1	1.8	2.3	0.6	0.2
<i>Corycaeus americanus</i>	0.3	0.7	0	0	0.4	0
<i>Corycaeus giesbrechti</i>	1.1	17.3	10.4	0.6	2.3	1.2
<i>Corycaeus latus</i>	0	0.3	0.2	0	0	0.8
<i>Corycaeus speciosus</i>	0	0	0.8	0	0	0.7
<i>Farranula gracilis</i>	0	6.2	50.3	0	0.1	54.3
<i>Farranula rostrata</i>	0	0	0	0	0	0.1
<i>Oithona nana</i>	0.1	0	0	0.4	0	0
<i>Oithona plumifera</i>	0.7	44.6	89.6	0.9	18.0	43.3
<i>Oithona setigera</i>	0	0	0	0	0	0.6
<i>Oithona simplex</i>	0	0	0	0.7	0	0
<i>Oithona tenuis</i>	0	0	0.2	0	0	0.2
<i>Oncaea media</i>	0	0.4	1.0	0	0.1	1.4
<i>Oncaea mediterranea</i>	0	0	13.8	0	0	2.9
<i>Oncaea venusta</i>	0	35.2	48.8	0	4.7	60.7
<i>Paroithona pulla</i>	0	0	0	0	0	1.6
<i>Sapphirina nigromaculata</i>	0	0.3	0.2	0	0.1	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.1	0.4	0	0	0.1	0

TABLE 8. CONT.'D

<i>Clytemnestra scutellata</i>	0	0	0	0	0.2	0.7
<i>Macrosetella gracilis</i>	0.1	3.0	1.0	1.3	14.0	0.8
Benthic harpacticoid females	1.0	0	0	0.3	0	0

TABLE 8. CONT.'D

## NOVEMBER CRUISE

Transect	II		
	1	2	3
Station			
Average No./M <sup>3</sup>	704.8	985.4	215.7
<u>CALANOIDA</u>			
<i>Acartia lilljeborgii</i>	0	0.3	0
<i>Acrocalanus andersoni</i>	0	0	0.1
<i>Acrocalanus longicornis</i>	0	38.1	2.5
<i>Calanopia americana</i>	4.4	5.8	0.4
<i>Calocalanus pavo</i>	0	13.5	4.6
<i>Calocalanus pavoninus</i>	0.5	2.1	5.3
<i>Calocalanus styliremis</i>	0	2.3	2.4
<i>Calocalanus sp.1</i>	0	0	0.2
<i>Calocalanus sp.4</i>	0	0	0.2
<i>Candacia curta</i>	0	0.3	0.1
<i>Candacia bipinnata</i>	0	0.3	0
<i>Centropages caribbeanensis</i>	0	0.9	0.1
<i>Centropages velificatus</i>	35.2	0.9	0.3
<i>Clausocalanus arcuicornis</i>	0	0.3	0.3
<i>Clausocalanus furcatus</i>	0	353.4	60.1
<i>Clausocalanus jobei</i>	0	1.2	0.2
<i>Clausocalanus mastigophorus</i>	0.5	0	0.4
<i>Clausocalanus parapergens</i>	0	0	0.1
<i>Clausocalanus paululus</i>	0	0.3	0.2

TABLE 8. CONT.'D

<i>Eucalanus pileatus</i>	110.3	8.1	0
<i>Euchaeta marina</i>	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0.3	0.2
<i>Lucicutia flavicornis</i>	0	0	8.2
<i>Lucicutia gaussae</i>	0	0	0.4
<i>Mecynocera clausii</i>	0	0.3	1.2
<i>Nannocalanus minor</i>	0	11.2	0.3
<i>Paracalanus aculeatus</i>	23.8	130.1	8.2
<i>Paracalanus crassirostris</i>	2.2	0	0
<i>Paracalanus denudatus</i>	0	0	0.3
<i>Paracalanus indicus</i>	8.7	6.6	0.8
<i>Paracalanus quasimodo</i>	32.2	163.0	0.4
<i>Paracandacia bispinosa</i>	0	0	0.1
<i>Pontellopsis villosa</i>	0.5	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0.2
<i>Scolecithrix danae</i>	0	0	0.1
<i>Temora stylifera</i>	3.9	0.3	0.2
<i>Temora turbinata</i>	390.6	0	1.9
<i>Undinula vulgaris</i>	0	9.6	0
<u>CYCLOPOIDA</u>			
<i>Copilia lata</i>	0	0	0.1
<i>Copilia mirabilis</i>	0	1.2	0.2
<i>Corycaeus amazonicus</i>	6.8	1.5	0.1
<i>Corycaeus americanus</i>	0.9	0	0
<i>Corycaeus clausi</i>	0	0	0.2
<i>Corycaeus giesbrechti</i>	4.4	10.0	1.0
<i>Corycaeus latus</i>	0.5	0.6	0.3

TABLE 8. CONT.'D

<i>Corycaeus lautus</i>	0	0	0.1
<i>Corycaeus limbatus</i>	0	0	0.1
<i>Corycaeus speciosus</i>	0	1.8	0.9
<i>Corycaeus typicus</i>	0	0	0.3
<i>Farranula gracilis</i>	0	71.5	22.2
<i>Lubbockia squillimana</i>	0	0	0.8
<i>Oithona nana</i>	13.0	0	0
<i>Oithona plumifera</i>	0	32.2	48.9
<i>Oithona setigera</i>	0	0	0.6
<i>Oithona tenuis</i>	0	0	1.0
<i>Oncaea conifera</i>	0	0	1.5
<i>Oncaea media</i>	0	6.8	1.5
<i>Oncaea mediterranea</i>	0	0	8.7
<i>Oncaea venusta</i>	2.7	109.1	25.4
<i>Sapphirina ovatolanceolata</i>	0	0.3	0
<i>Sapphirina stellata</i>	0	0.3	0
<i>Siphonostoma sp.2</i>	0	0.3	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra scutellata</i>	0	0	0.2
<i>Macrosetella gracilis</i>	1.8	0.9	1.2
Benthic harpacticoid females	62.1	0	0

TABLE 8. CONT.'D

DECEMBER CRUISE

Transect	II		
	1	2	3
Station			
Average No./m <sup>3</sup>	670.5	465.9	206.7
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.4	0.9
<i>Acartia tonsa</i>	0.6	0	0
<i>Acrocalanus andersoni</i>	0	0	0.7
<i>Acrocalanus longicornis</i>	0.6	4.0	2.2
<i>Aetideus acutus</i>	0	0	0.6
<i>Calanopia americana</i>	0	10.1	4.6
<i>Calanus tenuicornis</i>	0	0	0.7
<i>Calocalanus pave</i>	0	5.2	4.2
<i>Calocalanus pavoninus</i>	0	1.5	0
<i>Calocalanus styliremis</i>	0	3.9	0.7
<i>Calocalanus sp.3</i>	0	0.6	0
<i>Calocalanus sp.4</i>	0	0.6	0
<i>Candacia curta</i>	0	1.1	0
<i>Centropages caribbeanensis</i>	0	0.4	0
<i>Centropages velificatus</i>	4.4	5.1	2.4
<i>Clausocalanus arcuicornis</i>	0	0	0.4
<i>Clausocalanus furcatus</i>	1.1	130.8	50.3
<i>Clausocalanus jobei</i>	0	0.9	1.5
<i>Clausocalanus parapergens</i>	0	0	0.2



TABLE 8. CONT. 'D

<i>Clausocalanus paululus</i>	0	0	0.4
<i>Ctenocalanus vanus</i>	0	0	1.3
<i>Eucalanus pileatus</i>	7.7	5.2	6.3
<i>Euchaeta marina</i>	0	0	0.2
<i>Haloptilus longicornis</i>	0	0	1.1
<i>Lucicutia flavicornis</i>	0	0.4	5.7
<i>Lucicutia gaussae</i>	0	0	0.7
<i>Lucicutia gemina</i>	0	0	0.4
<i>Lucicutia paraclausi</i>	0	0	0.4
<i>Nannocalanus minor</i>	0	0	1.7
<i>Paracalanus aculeatus</i>	52.3	122.7	29.5
<i>Paracalanus denudatus</i>	0	0	0.2
<i>Paracalanus indicus</i>	400.6	64.3	7.2
<i>Paracalanus quasimodo</i>	131.5	15.7	3.7
<i>Paracandacia simplex</i>	0	1.1	0.4
<i>Parundinella spinodenticula</i>	0	0	2.4
<i>Pleuromamma abdominalis</i>	0	0	0.4
<i>Pleuromamma gracilis</i>	0	0	0.2
<i>Rhincalanus cornutus</i>	0	0.4	0
<i>Scaphocalanus subcurtus</i>	0	0	0.6
<i>Scolecithricella ctenopus</i>	0	0	0.2
<i>Scolecithricella dentata</i>	0	0	0.2
<i>Scolecithricella tenuiserrata</i>	0	0	0.9
<i>Scolecithrix danae</i>	0	0	0.2
<i>Temora stylifera</i>	0	2.9	0.2

TABLE 8. CONT.'D

<i>Temora turbinata</i>	24.9	6.1	16.0
<i>Undinula vulgaris</i>	0	0.4	0.6
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	0.7	0.2
<i>Corycaeus amazonicus</i>	16.5	1.1	1.7
<i>Corycaeus americanus</i>	1.1	0	0.9
<i>Corycaeus clausi</i>	0	0	0.2
<i>Corycaeus giesbrechti</i>	22.0	10.3	3.1
<i>Corycaeus limbatus</i>	0	0	0.4
<i>Corycaeus speciosus</i>	0	1.3	0.2
<i>Farranula gracilis</i>	0	7.9	1.7
<i>Lubbockia squillimana</i>	0	0	0.7
<i>Oithona nana</i>	1.1	0	0
<i>Oithona plumifera</i>	1.1	30.0	8.7
<i>Oithona robusta</i>	0	0	0.7
<i>Oithona setigera</i>	0	0	3.5
<i>Oithona tenuis</i>	0	0	0.2
<i>Oncaea conifera</i>	0	0	0.7
<i>Oncaea media</i>	0	0.6	0.2
<i>Oncaea mediterranea</i>	0.6	5.2	7.7
<i>Oncaea venusta</i>	2.8	19.4	24.9
<i>Paroithona pulla</i>	0	0	0.2
<i>Sapphirina nigromaculata</i>	0	0.7	0
<u>HARPACTICOIDA</u>			
<i>Macrosetella gracilis</i>	0.5	4.8	0.7
Benthic harpacticoid females	1.1	0.6	0

TABLE 9  
 PERCENTAGE COMPOSITION OF ADULT FEMALE COPEPODS  
 MEAN OF TWO SAMPLES PER STATION  
 JANUARY/FEBRUARY CRUISE

Transect	I			II		
Station	1	2	3	1	2	3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.1	0	0	0.1
<i>Acartia tonsa</i>	5.5	0	0.4	0.6	0	0.5
<i>Acrocalanus andersoni</i>	0	0	0.9	0	0.6	0
<i>Acrocalanus longicornis</i>	0.1	0.2	0.2	0	0.1	0
<i>Aetideus acutus</i>	0	0.1	0.3	0	0.1	0
<i>Calanopia americana</i>	0	3.7	0	0	2.9	1.1
<i>Calanus tenuicornis</i>	0	0.1	0.4	0	0.1	0
<i>Calocalanus pavo</i>	0	0.4	4.1	0	0.3	1.6
<i>Calocalanus pavoninus</i>	0	0.1	0	0	0	0
<i>Calocalanus styliremis</i>	0	1.0	1.1	0	0.4	0.1
<i>Calocalanus sp. 1</i>	0	0	0.1	0	0	0
<i>Calocalanus sp. 3</i>	0	0	0.2	0	0.1	0
<i>Calocalanus sp. 4</i>	0	0	0.2	0	0	0
<i>Candacia bipinnata</i>	0	0	0.1	0	0	0
<i>Candacia curta</i>	0	0	0.1	0	0	0.3
<i>Centropages hamatus</i>	8.2	0	0	1.5	0	0
<i>Centropages velificatus</i>	0.1	0.3	0	0.4	0	0
<i>Clausocalanus arcuicornis</i>	0	0	1.5	0	0.1	0.6
<i>Clausocalanus furcatus</i>	0.1	2.4	5.9	0.9	4.2	4.3

TABLE 9. CONT.'D

<i>Clausocalanus jobei</i>	0.5	2.6	18.8	2.2	3.9	7.5
<i>Clausocalanus mastigophorus</i>	0	0	0.3	0	0.2	0.3
<i>Clausocalanus parapergens</i>	0	0.3	2.9	0	0.8	0.3
<i>Clausocalanus paululus</i>	0	0	0	0	0.1	0
<i>Clausocalanus pergens</i>	0	0.3	0.1	0	0.4	0
<i>Ctenocalanus vanus</i>	0	1.2	4.6	0.1	2.4	0
<i>Eucalanus hyalinus</i>	0	0	0.2	0	0	0
<i>Eucalanus monachus</i>	0	0	0.5	0	0.1	0
<i>Eucalanus pileatus</i>	0.4	0.6	0	0.5	0.9	0.9
<i>Eucalanus sewelli</i>	0	0	0.1	0	0	0
<i>Euchaeta marina</i>	0	0.1	0	0	0.1	0
<i>Euchaeta media</i>	0	0	0.1	0	0	0
<i>Euchaeta paraconcinna</i>	0.2	0.3	0.2	0	0.4	0
<i>Haloptilus longicornis</i>	0	0.1	0.1	0	0	0
<i>Heterorhabdus papilliger</i>	0	0	0.1	0	0	0
<i>Heterorhabdus spinifer</i>	0	0	0.1	0	0	0
<i>Ischnocalanus plumulosus</i>	0	0	0.5	0	0	0.1
<i>Labidocera aestiva</i>	0.3	0	0	0.3	0.1	0.1
<i>Lucicutia flavicornis</i>	0	0.3	3.0	0.1	3.6	1.2
<i>Lucicutia gaussae</i>	0	0	0.2	0	0	0
<i>Lucicutia paraclausi</i>	0.6	0	0	0.1	0.1	0.1
<i>Mecynocera clausii</i>	0	0.3	0.3	0	0.3	0
<i>Nannocalanus minor</i>	1.3	2.4	1.0	0.2	2.1	2.2
<i>Neocalanus gracilis</i>	0	0	0.1	0	0	0
<i>Paracalanus aculeatus</i>	0.9	11.6	3.9	12.3	11.8	2.6
<i>Paracalanus crassirostris</i>	0.5	0	0	0	0	0

TABLE 9. CONT.'D

<i>Paracalanus denudatus</i>	0	0.7	0	0	0.1	0
<i>Paracalanus indicus</i>	54.7	29.3	5.3	42.3	32.4	30.7
<i>Paracalanus quasimodo</i>	0.8	12.0	1.6	13.2	7.8	15.1
<i>Paracandacia bispinosa</i>	0	0	0	0	0	0.3
<i>Paracandacia simplex</i>	0	0	0.1	0	0	0
<i>Parundinella spinodenticula</i>	0	0.1	0	0	0.2	0
<i>Pleuromamma abdominalis</i>	0	0.1	0	0	0	0
<i>Pleuromamma gracilis</i>	0	0	0.7	0	0.1	0
<i>Pleuromamma piseki</i>	0	0	0.6	0	0.2	0
<i>Rhincalanus cornutus</i>	0	0.4	0.2	0	0.1	0.3
<i>Scaphocalanus subcurtus</i>	0	0	0.3	0	0.1	0
<i>Scolecithricella ctenopus</i>	0	0	0.1	0	0	0
<i>Scolecithricella dentata</i>	0	0	0.1	0	0	0
<i>Scolecithricella tenuiserrata</i>	0	0	0	0	0.1	0
<i>Scolecithrix bradyi</i>	0	0	0.1	0	0	0
<i>Scolecithrix danae</i>	0	0	0.2	0	0	0
<i>Stephos deichmannae</i>	0.7	0.1	0	0	0.5	0
<i>Temora stylifera</i>	0	0.6	0.1	0	0.4	0.1
<i>Temora turbinata</i>	7.1	4.0	0.1	7.6	2.0	1.1
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0.1	0	0	0
<i>Copilia mirabilis</i>	0	0	0.1	0	0	0
<i>Corycaeus amazonicus</i>	0.1	0.6	0.3	2.9	1.1	1.6
<i>Corycaeus americanus</i>	9.3	0.9	0	6.1	0.6	4.4
<i>Corycaeus clausi</i>	0	0.3	0.4	0	0	0.1
<i>Corycaeus flaccus</i>	0	0	0.1	0	0.1	0

TABLE 9. CONT.'D

<i>Corycaeus giesbrechti</i>	0	2.4	5.4	0	0.1	5.6
<i>Corycaeus limbatus</i>	0	0	0.3	0	0.1	0
<i>Corycaeus minimus</i>	0	0	0.1	0	0	0
<i>Corycaeus speciosus</i>	0	0.1	0.2	0	0	0
<i>Corycaeus typicus</i>	0	0	0.3	0	0	0.1
<i>Farranula gracilis</i>	0	0.2	0.2	0	0.4	0.1
<i>Farranula rostrata</i>	0	0	0.2	0	0	0.1
<i>Lichomolgus</i> sp. 1	0.5	0.3	0	1.5	0.4	0.7
<i>Lubbockia squillimana</i>	0	0	0.1	0	0.1	0
<i>Oithona nana</i>	1.3	0	0	0	0.1	0
<i>Oithona plumifera</i>	0.3	11.2	2.6	2.6	7.0	0.7
<i>Oithona setigera</i>	0	0.5	0.7	0	0.1	0
<i>Oithona similis</i>	0	0.1	0	0	0	0
<i>Oithona tenuis</i>	0	0.1	0.2	0	0.5	0
<i>Oithona vivida</i>	0	0	0.1	0	0	0
<i>Oithona</i> sp. 1	0	1.1	1.5	0	0.3	0
<i>Oithona</i> sp. 3	0	0	0.1	0	0	0
<i>Oncaea conifera</i>	0	0.1	2.5	0	0.1	0.1
<i>Oncaea media</i>	0	0.3	1.8	0	0.4	1.3
<i>Oncaea mediterranea</i>	0.1	1.0	11.0	1.2	5.3	5.9
<i>Oncaea venusta</i>	0.3	5.7	10.8	0.9	2.4	5.6
<i>Sapphirina metallina</i>	0	0	0.1	0	0	0
<i>Sapphirina nigromaculata</i>	0	0.1	0	0	0.1	0.1
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.1	0.1	0.1	0.2	0.1	0.1
<i>Clytemnestra scutellata</i>	0	0	0.1	0	0.1	0
<i>Macrosetella gracilis</i>	0	0.5	0.1	0.8	0.4	0
Benthic harpacticoid females	6.7	0.1	0.3	1.7	0	1.8

TABLE 9. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0.1	0.2	+	0	0.7
<i>Acartia tonsa</i>	3.4	0.2	0	0.1	0	0
<i>Acrocalanus andersoni</i>	0.1	1.4	1.0	0	0	1.8
<i>Acrocalanus longicornis</i>	0	0.2	0.1	0.1	0	0
<i>Aetideus acutus</i>	0	0.5	0.3	0	0.1	0.2
<i>Calanopia americana</i>	0	0.4	0.4	0	2.2	0
<i>Calanus tenuicornis</i>	0	0.8	0.2	0	0	0.9
<i>Calocalanus pavo</i>	0.1	0.3	0.7	0	0.2	1.4
<i>Calocalanus pavoninus</i>	0	0.5	0.4	0	0.1	0.5
<i>Calocalanus styliremis</i>	0.1	0.7	1.5	0.1	0.8	0.6
<i>Calocalanus sp. 1</i>	0	0.1	0.1	0	0	0
<i>Calocalanus sp. 2</i>	0	0	0.1	0	0	0
<i>Calocalanus sp. 3</i>	0	0.3	0.2	0	0	1.1
<i>Calocalanus sp. 4</i>	0	0.2	0.2	0	0.1	0.3
<i>Candacia curta</i>	0	0.2	0.1	0	0	0
<i>Centropages hamatus</i>	8.6	0	0	0.3	0	0
<i>Centropages velificatus</i>	0.7	0.3	0.1	0.3	0.3	0
<i>Clausocalanus arcuicornis</i>	0	0.3	0.5	+	0.2	0.7
<i>Clausocalanus furcatus</i>	0.6	3.5	3.1	2.1	4.7	2.2
<i>Clausocalanus jobei</i>	3.5	6.0	8.5	8.3	4.8	6.0
<i>Clausocalanus mastigophorus</i>	0	0.3	0.6	0	0.1	0.2
<i>Clausocalanus parapergens</i>	0	0.7	0.9	0	0.4	3.7

TABLE 9. CONT.'D

<i>Clausocalanus paululus</i>	0	0	0.1	0	0	0.4
<i>Clausocalanus pergens</i>	0	0.2	0.3	0	0.3	2.6
<i>Ctenocalanus vanus</i>	0.1	5.3	3.3	0	1.2	13.3
<i>Eucalanus crassus</i>	0	0	0	0	0	+
<i>Eucalanus hyalinus</i>	0	0.1	0.1	0	0	0.1
<i>Eucalanus monachus</i>	0	0	0.1	0	0.1	0.1
<i>Eucalanus pileatus</i>	0.2	0.6	0.7	0.3	0.9	0.3
<i>Eucalanus sewelli</i>	0	0	0.2	0	0	0.3
<i>Euchaeta marina</i>	0	0.3	0.2	0	0	0
<i>Euchaeta media</i>	0	0.1	0	0	0	0
<i>Euchaeta paraconcinna</i>	0	0.6	0.8	+	0.1	0.3
<i>Euchaeta pubera</i>	0	0	0	0	0	0.1
<i>Euchirella rostrata</i>	0	0	0	0	0	0.1
<i>Haloptilus longicornis</i>	0	0.2	0.1	0	0	0.3
<i>Heterorhabdus papilliger</i>	0	0.1	0.1	0	0	0.3
<i>Heterorhabdus spinifer</i>	0	0	0	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0.2	0	+	0	0.2
<i>Labidocera aestiva</i>	0.5	0.2	0	0	0	0
<i>Lucicutia flavicornis</i>	0.1	4.7	4.6	0	1.3	8.7
<i>Lucicutia gaussae</i>	0	0.1	0.2	+	0.2	0.4
<i>Lucicutia paraclausi</i>	0.2	0.1	0.1	0	0	0
<i>Mecynocera clausii</i>	0	0.8	0.6	0	0.5	1.7
<i>Nannocalanus minor</i>	0.5	3.7	5.0	0.6	0.4	3.5
<i>Neocalanus gracilis</i>	0	0	0	0	0	0.1
<i>Paivella inaciae</i>	0	0	0	0	0	+
<i>Paracalanus aculeatus</i>	4.6	8.7	14.2	1.3	7.9	1.4



TABLE 9. CONT.'D

<i>Paracalanus denudatus</i>	0.1	0.4	0.1	0	0	0.5
<i>Paracalanus indicus</i>	28.6	16.5	13.7	32.4	36.0	1.4
<i>Paracalanus quasimodo</i>	20.5	9.0	4.1	31.1	13.8	0.2
<i>Paracalanus nudus</i>	0.1	0	0	0	0	0
<i>Paracandacia bispinosa</i>	0	0	0.1	0	0	0
<i>Paracandacia simplex</i>	0	0	0.1	0	0	0.1
<i>Parundinella spinodenticula</i>	0	0	0	0	0	+
<i>Phaenna spinifera</i>	0	0	0.1	0	0	0
<i>Pleuromamma abdominalis</i>	0	0	0.1	0	0	0.2
<i>Pleuromamma gracilis</i>	0	0.1	0.1	0	0	1.8
<i>Pleuromamma piseki</i>	0	0.1	0.1	0	0	1.6
<i>Pontellina plumata</i>	0	0	0.1	0	0	0
<i>Rhincalanus cornutus</i>	0	0.6	0.2	+	0	0.4
<i>Scaphocalanus brevirostris</i>	0	0	0	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0.1	0.1	0	0	0.4
<i>Scolecithricella ctenopus</i>	0	0	0	0	0	0.1
<i>Scolecithricella dentata</i>	0	0	0.1	0	0	0.4
<i>Scolecithricella tenuiserrata</i>	0	0.2	0.1	0	0	+
<i>Scolecithrix bradyi</i>	0	0	0.1	0	0	0.2
<i>Scolecithrix danae</i>	0	0.2	0.2	0	0	0.1
<i>Stephos deichmannae</i>	0	0	0	+	0	0
<i>Temora stylifera</i>	0.1	0.2	0.2	0.2	0.2	0
<i>Temora turbinata</i>	17.8	0.8	0.5	5.1	0.8	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0.1
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0.1	0.1	0	0	0.1

TABLE 9. CONT.'D

<i>Copilia mirabilis</i>	0	0	0	+	0	0
<i>Corycaeus amazonicus</i>	1.2	1.4	1.0	1.4	0.8	0
<i>Corycaeus americanus</i>	1.8	0.6	0.2	1.8	0.6	0.1
<i>Corycaeus clausi</i>	0	0.2	0.2	0	0.1	0.3
<i>Corycaeus flaccus</i>	0	0	0.1	0	0	0.1
<i>Corycaeus furcifer</i>	0	0	0	0	0	0.1
<i>Corycaeus giesbrechti</i>	0.1	0.7	0.4	0.1	0.2	0.3
<i>Corycaeus latus</i>	0	0.1	0	0.1	0	0
<i>Corycaeus limbatus</i>	0	0	0.2	0	0	0.2
<i>Corycaeus minimus</i>	0	0	0	0	0	+
<i>Corycaeus speciosus</i>	0	0	0.1	+	0	0
<i>Corycaeus typicus</i>	0	0.6	0	0	0	0.4
<i>Farranula gracilis</i>	0	0.1	0.1	+	0.4	+
<i>Farranula rostrata</i>	0	0	0.1	0	0	0
<i>Lichomolgus</i> sp. 1	1.8	0.3	0.1	1.2	0.6	0.1
<i>Lubbockia squillimana</i>	0	0.2	0	0	0.1	0.1
<i>Oithona decipiens</i>	0	0.1	0.1	0	0	0
<i>Oithona hebes</i>	0	0.1	0	0	0	0
<i>Oithona nana</i>	0	0	0.1	0	0	0
<i>Oithona plumifera</i>	1.4	8.7	12.0	1.4	7.0	10.3
<i>Oithona robusta</i>	0	0	0	0	0	0.4
<i>Oithona setigera</i>	0	0.4	0.1	0	0.1	3.5
<i>Oithona similis</i>	0	0.1	0.1	0	0.1	0.2
<i>Oithona simplex</i>	0	0	0.1	0	0	0
<i>Oithona tenuis</i>	0	0.8	0.4	0	0.2	2.4
<i>Oithona vivida</i>	0	0.1	0	0	0	0

TABLE 9. CONT.'D

<i>Oithona</i> sp. 1	0	0.6	0.6	0	0.2	0.6
<i>Oncaea conifera</i>	0.1	1.7	1.3	+	0	2.9
<i>Oncaea media</i>	0	0.3	0.5	0.3	0.4	0.6
<i>Oncaea mediterranea</i>	1.0	6.2	8.0	2.4	5.7	12.5
<i>Oncaea venusta</i>	0.9	4.9	4.0	5.7	3.9	2.0
<i>Sapphirina auronitens</i>	0	0	0	0	0	0.1
<i>Sapphirina metallina</i>	0	0.1	0.1	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0.1	0	0.1	0
<i>Siphonostomata</i> sp. 1	0	0	0	0	0	0.1
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.3	0	0.1	+	0.2	0
<i>Clytemnestra scutellata</i>	0	0.3	0.2	+	0.1	+
<i>Macrosetella gracilis</i>	0.1	0.4	0.5	1.0	1.1	0.4
Benthic harpacticoid females	0.9	0.6	0.1	1.8	0.5	0.1

TABLE 9. CONT.'D

## MARCH CRUISE

Transect	II		
	1	2	3
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.1	0.3
<i>Acartia tonsa</i>	19.4	15.3	1.0
<i>Acrocalanus andersoni</i>	0	0.2	0.4
<i>Aetideus acutus</i>	0	0	0.2
<i>Anomalocera ornata</i>	0	0.1	0.1
<i>Calanus tenuicornis</i>	0	0	0.3
<i>Calocalanus pavo</i>	0	0.6	0.2
<i>Candacia bipinnata</i>	0	0	0.2
<i>Candacia curta</i>	0	0	0.2
<i>Centropages hamatus</i>	46.9	0.1	0
<i>Centropages velificatus</i>	0.1	0.4	0.3
<i>Clausocalanus arcuicornis</i>	0	0	0.2
<i>Clausocalanus furcatus</i>	0.1	1.0	0.9
<i>Clausocalanus jobei</i>	0.3	6.1	12.8
<i>Clausocalanus mastigophorus</i>	0	0.3	0.1
<i>Clausocalanus parapergens</i>	0	0	0.3
<i>Clausocalanus pergens</i>	0	0	0.4
<i>Ctenocalanus vanus</i>	0.1	0.6	5.2
<i>Eucalanus crassus</i>	0	0	0.2
<i>Eucalanus hyalinus</i>	0	0.1	0.4
<i>Eucalanus monachus</i>	0	0.1	0
<i>Eucalanus pileatus</i>	0.6	1.1	1.9

TABLE 9. CONT.'D

<i>Eucalanus sewelli</i>	0	0	1.3
<i>Euchaeta marina</i>	0	0.1	0.2
<i>Euchaeta paraconcinna</i>	0	0.2	0.7
<i>Heterorhabdus papilliger</i>	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0	0.1
<i>Labidocera aestiva</i>	0.2	0.1	0.1
<i>Lucicutia flavicornis</i>	0	0.2	3.1
<i>Lucicutia gaussae</i>	0	0	0.2
<i>Lucicutia paraclausi</i>	0	0	0.2
<i>Mecynocera clausii</i>	0	0	0.2
<i>Nannocalanus minor</i>	0.1	2.2	1.2
<i>Neocalanus gracilis</i>	0	0.1	0.2
<i>Paracalanus aculeatus</i>	0.5	0.9	4.0
<i>Paracalanus denudatus</i>	0	0.1	0
<i>Paracalanus indicus</i>	5.8	27.0	16.1
<i>Paracalanus quasimodo</i>	22.0	17.9	13.0
<i>Paracandacia simplex</i>	0	0	0.1
<i>Parundinella spinodenticula</i>	0	0	0.2
<i>Rhincalanus cornutus</i>	0.4	1.0	0.4
<i>Scaphocalanus subcurtus</i>	0	0	0.1
<i>Scolecithrix danae</i>	0	0.3	0.7
<i>Temora stylifera</i>	0.3	0.6	0.2
<i>Temora turbinata</i>	1.0	1.5	0.1
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	0.1	0.2
<i>Corycaeus amazonicus</i>	0.2	0.7	0.4

TABLE 9. CONT.'D

<i>Corycaeus americanus</i>	0.9	0.8	0.6
<i>Corycaeus giesbrechti</i>	0	0.7	1.5
<i>Farranula gracilis</i>	0	0	0.1
<i>Farranula rostrata</i>	0	0	0.1
<i>Lichomolgus</i> sp. 1	0	0.9	0.4
<i>Oithona nana</i>	0.1	0	0
<i>Oithona plumifera</i>	0.1	1.0	1.6
<i>Oithona setigera</i>	0	0	0.1
<i>Oithona similis</i>	0.1	0.1	0.4
<i>Oithona</i> sp. 1	0	0	0.7
<i>Oncaea conifera</i>	0.1	0	0.6
<i>Oncaea media</i>	0.2	1.7	1.3
<i>Oncaea mediterranea</i>	0.5	5.1	11.1
<i>Oncaea venusta</i>	0.7	8.8	12.7
<i>Sapphirina intestinata</i>	0	0	0.1
<i>Sapphirina nigromaculata</i>	0	0.2	0.3
<i>Sapphirina opalina</i>	0	0	0.1
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0	0	0.1
<i>Clytemnestra scutellata</i>	0	0.1	0.2
<i>Macrosetella gracilis</i>	0	0.2	0
Benthic harpacticoid females	0.1	1.4	0.4

TABLE 9. CONT.'D

APRIL CRUISE

Transect Station	II		
	1	2	3
CALANOIDA			
<i>Acartia danae</i>	0	2.8	1.5
<i>Acartia tonsa</i>	4.3	2.7	5.0
<i>Acrocalanus andersoni</i>	0	0	+
<i>Acrocalanus longicornis</i>	0	0	0.1
<i>Aetideus acutus</i>	0	0	0.5
<i>Bradyidius arnoldi</i>	0	0.1	0
<i>Calanus tenuicornis</i>	0	0	0.6
<i>Calocalanus pavo</i>	0	0.7	1.2
<i>Calocalanus pavoninus</i>	0	0	0.2
<i>Calocalanus styliremis</i>	0	0.2	0.4
<i>Calocalanus</i> sp. 1	0	0	+
<i>Calocalanus</i> sp. 2	0	0	0.3
<i>Calocalanus</i> sp. 3	0	0	0.3
<i>Calocalanus</i> sp. 4	0	0	0.3
<i>Candacia curta</i>	0	0	0.1
<i>Centropages velificatus</i>	0.2	0.5	0.1
<i>Clausocalanus arcuicornis</i>	0	0.1	1.4
<i>Clausocalanus furcatus</i>	0.1	6.6	9.1
<i>Clausocalanus jobei</i>	0	0.9	2.4
<i>Clausocalanus mastigophorus</i>	0	0	0
<i>Clausocalanus parapergens</i>	0	0.2	3.9

TABLE 9. CONT.'D

<i>Clausocalanus paululus</i>	0	0	0.1
<i>Clausocalanus pergens</i>	0	0	2.7
<i>Ctenocalanus vanus</i>	0	0.1	9.2
<i>Eucalanus pileatus</i>	0.3	0.5	0.2
<i>Eucalanus sewelli</i>	0	0	0.1
<i>Haloptilus longicornis</i>	0	0	1.0
<i>Heterorhabdus papilliger</i>	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0	0.2
<i>Labidocera aestiva</i>	0	0.1	0.2
<i>Lucicutia flavicornis</i>	0	0	1.7
<i>Lucicutia gaussae</i>	0	0	0.1
<i>Lucicutia gemina</i>	0	0	0.1
<i>Lucicutia paraclausi</i>	0	0	0.1
<i>Mecynocera clausii</i>	0	0	1.3
<i>Nannocalanus minor</i>	0	0.1	0.2
<i>Paivella inaciae</i>	0	0	0.1
<i>Paracalanus aculeatus</i>	0.1	0.9	0.5
<i>Paracalanus crassirostris</i>	0.1	0.2	0
<i>Paracalanus denudatus</i>	0	0	0.2
<i>Paracalanus indicus</i>	79.6	35.7	4.0
<i>Paracalanus quasimodo</i>	5.2	29.5	9.9
<i>Pleuromamma abdominalis</i>	0	0	0.1
<i>Pleuromamma gracilis</i>	0	0	0.4
<i>Pleuromamma piseki</i>	0	0	0.4
<i>Rhincalanus cornutus</i>	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0	0.5



TABLE 9. CONT.'D

<i>Scolecithricella ctenopus</i>	0	0	0.1
<i>Scolecithricella dentata</i>	0	0	+
<i>Scolecithricella tenuiserrata</i>	0	0	0.4
<i>Scolecithrix bradyi</i>	0	0	0.5
<i>Temora stylifera</i>	0.4	0	0.1
<i>Temora turbinata</i>	2.8	0.1	0
<i>Temoropia mayumbaensis</i>	0	0	0.3
<u>CYCLOPOIDA</u>			
<i>Copilia lata</i>	0	0	0.1
<i>Copilia mirabilis</i>	0	0	+
<i>Corycaeus amazonicus</i>	2.7	4.1	0.9
<i>Corycaeus americanus</i>	3.2	5.2	0.2
<i>Corycaeus clausi</i>	0	0	0.3
<i>Corycaeus flaccus</i>	0	0	0.1
<i>Corycaeus giesbrechti</i>	0	0.4	0.4
<i>Corycaeus latus</i>	0	0	+
<i>Corycaeus minimus</i>	0	0	0.1
<i>Corycaeus speciosus</i>	0	0.1	+
<i>Farranula gracilis</i>	0	0.3	3.1
<i>Lichomolgus sp. 1</i>	0	0.2	0.1
<i>Lubbockia squillimana</i>	0	0	0.3
<i>Oithona decipiens</i>	0	0	+
<i>Oithona plumifera</i>	0.1	0.9	3.4
<i>Oithona robusta</i>	0	0	1.2
<i>Oithona setigera</i>	0	0	6.7
<i>Oithona similis</i>	0.1	0.2	0
<i>Oithona tenuis</i>	0	0	0.1

TABLE 9. CONT.'D

<i>Oithona vivida</i>	0	0	0.1
<i>Oithona</i> sp. 1	0.1	0	4.7
<i>Oncaea conifera</i>	0	0.1	2.5
<i>Oncaea media</i>	0	0.9	2.4
<i>Oncaea mediterranea</i>	0	0.7	8.9
<i>Oncaea venusta</i>	0	3.7	2.1
<i>Sapphirina angusta</i>	0	0	+
<i>Sapphirina ovatolanceolata</i>	0	0	+
HARPACTICOIDA			
<i>Clytemnestra rostrata</i>	0.2	0.3	0.1
<i>Macrosetella gracilis</i>	0	0	+
Benthic harpacticoid females	0.2	1.0	0

TABLE 9. CONT.'D

MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
CALANOIDA						
<i>Acartia danae</i>	+	0.4	1.9	0	0.6	1.3
<i>Acartia tonsa</i>	4.3	0	0.1	27.8	2.7	0.2
<i>Acrocalanus andersoni</i>	0	0	0.1	0	0	0.2
<i>Aetideus acutus</i>	0	0	0.5	0	0	0.3
<i>Bradyidius arnoldi</i>	0	0	0.1	0	0	0
<i>Calanopia americana</i>	0.4	0	0.1	0	0	0
<i>Calanus tenuicornis</i>	0	0	0.4	0	0	0.6
<i>Calocalanus pavo</i>	0	0.1	1.2	0	0.2	1.5
<i>Calocalanus pavoninus</i>	0	0.2	0.2	0	0	0.2
<i>Calocalanus styliremis</i>	0	0.1	0.1	0	0	0
<i>Calocalanus sp. 1</i>	0	0	0	0	0	0.2
<i>Calocalanus sp. 3</i>	0	0	0.1	0	0	0.2
<i>Calocalanus sp. 4</i>	0	0	0.1	0	0	0
<i>Candacia curta</i>	0.1	0	0.3	0	0.2	0.6
<i>Candacia varicans</i>	0	0	0	0	0	0.1
<i>Centropages velificatus</i>	11.8	2.3	1.3	0.8	0.3	2.3
<i>Clausocalanus arcuicornis</i>	0	0	0.1	0	0	0.8
<i>Clausocalanus furcatus</i>	1.6	26.1	4.9	0.2	9.7	17.4
<i>Clausocalanus jobei</i>	0	11.7	3.9	0.5	6.9	2.9
<i>Clausocalanus parapergens</i>	0	0	0.5	0	0	0.2
<i>Clausocalanus paululus</i>	0	0	0.1	0	0	0.1
<i>Clausocalanus pergens</i>	0	0	0.1	0	0	0.2

TABLE 9. CONT.'D

<i>Ctenocalanus vanus</i>	0	0.1	3.5	0	0	2.0
<i>Eucalanus hyalinus</i>	0	0	0.1	0	0	0.1
<i>Eucalanus pileatus</i>	10.5	4.1	3.9	0.1	2.0	0.8
<i>Eucalanus sewelli</i>	0	0	0.1	0	0	0.1
<i>Euchaeta marina</i>	0	0	0	0	0	0.1
<i>Euchaeta media</i>	0	0	0	0	0	0.1
<i>Euchaeta paraconcinna</i>	0	0.5	0	0	0	0.2
<i>Haloptilus longicornis</i>	0	0	0.3	0	0	0.4
<i>Haloptilus paralongicirrus</i>	0	0	0	0	0	0.2
<i>Heterorhabdus papilliger</i>	0	0	0.4	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0.1	0.1	0	0	0.2
<i>Labidocera aestiva</i>	1.8	0	0.1	0.3	0.4	0.3
<i>Labidocera scotti</i>	0.1	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	2.0	0	0	3.0
<i>Lucicutia gaussae</i>	0	0	0.3	0	0	0.2
<i>Lucicutia gemina</i>	0	0	0.1	0	0	0.1
<i>Lucicutia paraclausi</i>	0	0.9	1.7	0	0.3	0
<i>Mecynocera clausii</i>	0	0	1.2	0.2	0	2.7
<i>Nannocalanus minor</i>	0.1	0.6	1.0	0	0	1.5
<i>Paivella inaciae</i>	0	0	0.1	0	0	0.1
<i>Paracalanus aculeatus</i>	0.8	7.4	1.4	0.1	1.7	0.2
<i>Paracalanus denudatus</i>	0	0	0.1	0	0	0
<i>Paracalanus indicus</i>	3.4	9.4	9.8	24.2	15.0	2.8
<i>Paracalanus quasimodo</i>	10.6	2.9	4.8	17.3	18.5	5.7
<i>Paracalanus nudus</i>	0	0	0	0	0	0.1
<i>Paracandacia simplex</i>	0	0	0	0	0	0.3

TABLE 9. CONT.'D

<i>Parundinella spinodenticula</i>	0	0	0.7	0	0	0.2
<i>Pleuromamma abdominalis</i>	0	0	0	0	0	0.2
<i>Pleuromamma gracilis</i>	0	0	0.1	0	0	0.8
<i>Pleuromamma piseki</i>	0	0	0.1	0	0	0.7
<i>Rhincalanus cornutus</i>	0	0	0.2	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0	0.3	0	0	0.1
<i>Scolecithricella ctenopus</i>	0	0	0.1	0	0	0
<i>Scolecithricella dentata</i>	0	0	0.1	0	0	0.2
<i>Scolecithricella tenuiserrata</i>	0	0	0.2	0	0	0.1
<i>Scolecithrix bradyi</i>	0	0	0.5	0	0	0.4
<i>Scolecithrix danae</i>	0	0	0	0	0	0.1
<i>Temora stylifera</i>	0.6	0.4	0.6	0	2.0	1.7
<i>Temora turbinata</i>	42.3	1.3	0.1	2.5	16.6	0.1
<i>Temoropia mayumbaensis</i>	0	0	0.3	0	0	0
<i>Undinula vulgaris</i>	0	0	0	0	0	0.1
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0.1	0	0	0
<i>Copilia mirabilis</i>	0	0.2	0.2	0	0	0.2
<i>Corycaeus amazonicus</i>	6.2	4.5	2.4	7.6	5.4	4.7
<i>Corycaeus americanus</i>	1.1	1.7	1.9	16.8	8.0	2.1
<i>Corycaeus clausi</i>	0	0	0.1	0	0	0.1
<i>Corycaeus flaccus</i>	0	0	0.2	0	0	0
<i>Corycaeus giesbrechti</i>	1.2	0.2	0.4	0	0.1	0.5
<i>Corycaeus limbatus</i>	0	0	0.2	0	0	0.3
<i>Corycaeus minimus</i>	0	0	0.2	0	0	0.4
<i>Corycaeus typicus</i>	0	0	0.3	0	0	0.3

TABLE 9. CONT.'D

<i>Farranula gracilis</i>	0.3	0.7	0.7	0	0.6	0
<i>Farranula rostrata</i>	0	0	0.1	0	0	0
<i>Lichomolgus</i> sp. 1	0	0	0.4	0	0.2	0.3
<i>Lubbockia squillimana</i>	0	0.1	0.2	0	0	0.2
<i>Oithona hamata</i>	0	0	0	0	0	0.2
<i>Oithona hebes</i>	+	0	0	0	0	0
<i>Oithona nana</i>	+	0	0	0	0	0
<i>Oithona plumifera</i>	0	3.6	4.3	0.1	2.2	3.1
<i>Oithona robusta</i>	0	0	0.6	0	0	0.4
<i>Oithona setigera</i>	0	0	7.6	0	0	6.4
<i>Oithona similis</i>	0	0	0.2	0	0	0.1
<i>Oithona tenuis</i>	0	0	0.1	0	0	0.3
<i>Oithona</i> sp. 1	0	0	5.2	0	0	2.1
<i>Oncaea conifera</i>	0	0	1.9	0	0	1.9
<i>Oncaea media</i>	0	0.9	0.8	0	0	0.7
<i>Oncaea mediterranea</i>	0	1.0	17.5	0.2	0.8	17.9
<i>Oncaea venusta</i>	1.0	18.6	2.6	0	4.8	2.2
<i>Sapphirina angusta</i>	0	0	0	0	0	0.1
<i>Sapphirina metallina</i>	0	0	0.2	0	0	0
<i>Sapphirina nigromaculata</i>	0	0	0.1	0	0	0.1
<i>Sapphirina ovatolanceolata</i>	0	0	0.2	0	0	0.1
<i>Sapphirina</i> sp. 1	0	0	0.1	0	0	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0.7	0	0.3	0.2
<i>Clytemnestra scutellata</i>	0	0	0.2	0	0	0.2
<i>Macrosetella gracilis</i>	0.1	0.1	0.1	0	0	0
Benthic harpacticoid females	1.6	0.1	0	1.2	0.6	0.2

TABLE 9. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0.6	0.2	2.2	0.1	0.5	0.6
<i>Acartia tonsa</i>	1.2	0.5	0.1	0.1	0	0
<i>Acrocalanus andersoni</i>	0	0	0.1	0	0	0.1
<i>Aetideus acutus</i>	0	0	0.1	0	0	+
<i>Bradyidius arnoldi</i>	0	0.5	0	0	0	0
<i>Calanopia americana</i>	0	0.2	0	0	0	0.2
<i>Calanus tenuicornis</i>	0	+	0.4	0	+	0.1
<i>Calocalanus pavo</i>	0	0.6	0.9	0.1	0.7	0.9
<i>Calocalanus pavoninus</i>	0	+	0.1	0	0.1	0.1
<i>Calocalanus styliremis</i>	0	0.1	0.1	0.1	0.1	0.1
<i>Calocalanus sp. 2</i>	0	0	0.1	0	0	+
<i>Calocalanus sp. 3</i>	0	0	+	0	+	0.2
<i>Calocalanus sp. 4</i>	0	0	+	0	0	0.1
<i>Candacia bipinnata</i>	0	0	0	0	0	0.1
<i>Candacia curta</i>	0	0.1	0.8	0	0	1.0
<i>Centropages velificatus</i>	0.1	+	0.8	0.3	1.9	1.0
<i>Clausocalanus arcuicornis</i>	0	0.1	0.6	0	0	1.2
<i>Clausocalanus furcatus</i>	1.6	3.2	2.7	7.5	8.9	4.2
<i>Clausocalanus jobei</i>	0.3	43.1	3.2	3.0	38.2	22.9
<i>Clausocalanus mastigophorus</i>	0	0	0	0	0	0.1
<i>Clausocalanus parapergens</i>	0	0	0.2	0	0.1	1.0
<i>Ctenocalanus vanus</i>	0	0	0.6	0	0.1	5.2
<i>Eucalanus crassus</i>	0	0	+	0	0	0
<i>Eucalanus hyalinus</i>	0	0	0	0	0	+

TABLE 9. CONT.'D

<i>Eucalanus monachus</i>	0	0	0	0	0	0.1
<i>Eucalanus pileatus</i>	1.6	0.5	2.2	0.3	2.0	0.1
<i>Eucalanus sewelli</i>	0	0	0.1	0	0	+
<i>Eucalanus subtenuis</i>	0	0	0	0	0	0.1
<i>Euchaeta paraconcinna</i>	0	+	0.5	0	0.1	0.2
<i>Haloptilus longicornis</i>	0	0	0.7	0	0	0.2
<i>Heterorhabdus papilliger</i>	0	0	0	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0	0.2	0.1	0	0
<i>Labidocera aestiva</i>	0.4	0.1	0	0	+	0.1
<i>Labidocera scotti</i>	0.1	0	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0.2	2.0	0	0	1.9
<i>Lucicutia gaussae</i>	0	0.1	0.4	0	+	0.1
<i>Lucicutia paraclausi</i>	0	0.1	0	0	0	0.4
<i>Mecynocera clausii</i>	0	0	2.5	0	1.0	0.7
<i>Nannocalanus minor</i>	0	0.2	1.0	0	0.2	2.8
<i>Neocalanus gracilis</i>	0	0	0.1	0	0	0
<i>Paracalanus aculeatus</i>	2.0	0.7	0.8	1.3	1.8	0.5
<i>Paracalanus crassirostris</i>	0	0.1	0	0	0	0
<i>Paracalanus indicus</i>	47.7	5.4	2.4	37.6	8.5	8.8
<i>Paracalanus quasimodo</i>	19.5	5.3	3.1	22.4	9.6	3.8
<i>Paracandacia simplex</i>	0	0	0.1	0	0.1	0.1
<i>Parundinella spinodenticula</i>	0	0	0.1	0	0	+
<i>Pleuromamma piseki</i>	0	0	0.1	0	0	+
<i>Pontellina pulmata</i>	0	0	+	0	0	0
<i>Rhincalanus cornutus</i>	0	0	0	0	0	0.2
<i>Scaphocalanus subcurtus</i>	0	0	0.1	0	0	0.1



TABLE 9. CONT.'D

<i>Scolecithricella tenuiserrata</i>	0	0	0.3	0	0	0.2
<i>Scolecithrix bradyi</i>	0	0	0.2	0	0	+
<i>Scolecithrix danae</i>	0	0	+	0	0	0.2
<i>Temora stylifera</i>	0.5	0.5	0.6	0.1	0.5	1.2
<i>Temora turbinata</i>	6.5	3.9	1.9	10.3	2.1	0.3
<i>Undinula vulgaris</i>	0	0	+	0	0	+
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0.2	0	+	0
<i>Copilia mirabilis</i>	0	0	0.1	0	+	0.1
<i>Corycaeus amazonicus</i>	4.4	4.1	3.9	2.5	2.6	2.8
<i>Corycaeus americanus</i>	10.7	12.7	7.1	9.3	6.9	7.6
<i>Corycaeus clausi</i>	0	0	0.3	0	0	0
<i>Corycaeus flaccus</i>	0	0	0.1	0	0	0
<i>Corycaeus giesbrechti</i>	0	0.2	0.5	0.1	0.2	0.6
<i>Corycaeus lautus</i>	0	0	0.1	0	0	0
<i>Corycaeus limbatus</i>	0	0	0	0	0	+
<i>Corycaeus minimus</i>	0	0	0	0	+	0.2
<i>Corycaeus typicus</i>	0	0	0.1	0	0	0.2
<i>Farranula gracilis</i>	0.1	0	0.5	0.1	0.5	1.0
<i>Farranula rostrata</i>	0	0	0.1	0	0	+
<i>Lichomolgus</i> sp. 1	0	0.7	0.2	0	0	0.5
<i>Lubbockia squillimana</i>	0	+	0.8	0	0	0.1
<i>Oithona hamata</i>	0	0	+	0	0	0
<i>Oithona hebes</i>	0	0.2	0	0	0	0
<i>Oithona plumifera</i>	0.3	4.3	7.9	1.4	3.7	6.0
<i>Oithona robusta</i>	0	0	0.1	0	0	0.4
<i>Oithona setigera</i>	0	0.1	5.3	0	0	4.3

TABLE 9. CONT.'D

<i>Oithona similis</i>	0	0	0	0	0	0.2
<i>Oithona tenuis</i>	0	0	0.3	0	+	0
<i>Oithona</i> sp. 1	0	0.6	2.6	0	0	3.0
<i>Oncaea conifera</i>	0	0.2	0.7	0.2	0	1.0
<i>Oncaea media</i>	0	0.2	0.8	0	0.1	0.2
<i>Oncaea mediterranea</i>	0	5.1	29.8	0.5	4.9	8.6
<i>Oncaea venusta</i>	0.4	4.1	4.9	2.1	4.2	0.8
<i>Sapphirina metallina</i>	0	0	0.1	0	0	0.1
<i>Sapphirina nigromaculata</i>	0	0	0	0	+	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.3	0	0.2	0	0	0.4
<i>Clytemnestra scutellata</i>	0	0	0.1	0.1	0	0.2
<i>Macrosetella gracilis</i>	0	0	0.1	0.1	0.1	+
Benthic harpacticoid females	1.5	1.7	0.1	0.4	0	0.1

TABLE 9. CONT.'D  
JULY CRUISE

Transect Station	II		
	1	2	3
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.2	1.1
<i>Acrocalanus longicornis</i>	0.2	0.5	0.1
<i>Aetideus acutus</i>	0	0	0.1
<i>Calanopia americana</i>	0.9	0	0
<i>Calanus tenuicornis</i>	0	0	0.1
<i>Calocalanus pavo</i>	0.2	0.7	0.8
<i>Calocalanus pavoninus</i>	0	1.9	1.1
<i>Calocalanus styliremis</i>	0.1	1.2	1.0
<i>Calocalanus sp. 1</i>	0	0	0.1
<i>Calocalanus sp. 2</i>	0.1	0	0
<i>Calocalanus sp. 3</i>	0	0.1	0.2
<i>Candacia curta</i>	0.1	0.1	0.1
<i>Centropages caribbeanensis</i>	0	0.1	0.1
<i>Centropages velificatus</i>	6.4	1.1	0.2
<i>Clausocalanus arcuicornis</i>	0	0	0.2
<i>Clausocalanus furcatus</i>	41.9	31.4	8.1
<i>Clausocalanus jobei</i>	3.4	0.4	14.3
<i>Clausocalanus parapergens</i>	0.1	0	0
<i>Ctenocalanus vanus</i>	0	0	0.5
<i>Eucalanus pileatus</i>	0.6	+	0.2
<i>Euchaeta marina</i>	0	0.1	0

TABLE 9. CONT.'D

<i>Euchaeta paraconcinna</i>	0	0.1	0.9
<i>Haloptilus longicornis</i>	0	0	0.3
<i>Heterorhabdus papilliger</i>	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0.1	0.1
<i>Labidocera acutifrons</i>	0	0	0.1
<i>Lucicutia flavicornis</i>	0	0	1.9
<i>Lucicutia gaussae</i>	0	0	0.2
<i>Lucicutia paraclausi</i>	0	0.1	0.2
<i>Mecynocera clausii</i>	0	0.4	1.1
<i>Nannocalanus minor</i>	0.3	0.4	2.8
<i>Paracalanus aculeatus</i>	0.9	1.3	0.3
<i>Paracalanus denudatus</i>	0	0	0.2
<i>Paracalanus indicus</i>	0.2	0.2	1.1
<i>Paracalanus quasimodo</i>	9.1	1.1	3.4
<i>Paracalanus nudus</i>	0	0	0.1
<i>Paracandacia simplex</i>	0	+	0.1
<i>Pleuromamma gracilis</i>	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0	0.2
<i>Scolecithricella ctenopus</i>	0	0	0.1
<i>Scolecithrix bradyi</i>	0	0	0.2
<i>Scolecithrix danae</i>	0	+	0.1
<i>Temora stylifera</i>	0.7	0.8	2.4
<i>Temora turbinata</i>	13.2	0.1	1.4
<i>Undinula vulgaris</i>	+	0.1	0
<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	+	0	0.1

TABLE 9. CONT.'D

<i>Corissa parva</i>	0	0	0.1
<i>Corycaeus amazonicus</i>	0.2	0.3	0.3
<i>Corycaeus americanus</i>	+	+	0.1
<i>Corycaeus flaccus</i>	0	0	0.1
<i>Corycaeus giesbrechti</i>	1.9	1.0	2.0
<i>Corycaeus latus</i>	0.3	0.2	0.2
<i>Corycaeus speciosus</i>	0	0.2	0.1
<i>Corycaeus typicus</i>	0	0	0.1
<i>Farranula gracilis</i>	13.5	32.8	7.2
<i>Farranula rostrata</i>	0	0	0.1
<i>Lubbockia squillimana</i>	0	+	0.4
<i>Oithona plumifera</i>	2.9	11.0	4.8
<i>Oithona robusta</i>	0	0	0.2
<i>Oithona setigera</i>	0	0	0.7
<i>Oithona similis</i>	0	0	0.1
<i>Oithona tenuis</i>	0	0	0.1
<i>Oithona vivida</i>	0	0	0.1
<i>Oithona sp. 1</i>	0	0	0.8
<i>Oncaea conifera</i>	0	0.2	1.8
<i>Oncaea media</i>	0.8	0.9	2.3
<i>Oncaea mediterranea</i>	+	1.2	22.0
<i>Oncaea venusta</i>	1.9	8.7	8.6
<i>Sapphirina nigromaculata</i>	0.1	0.1	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra rostrata</i>	0	0	0.1
<i>Clytemnestra scutellata</i>	0	+	0.1

TABLE 9. CONT.'D

Macrosetella gracilis	0	0.9	1.0
Microsetella rosea	0	0	0.1
Benthic harpacticoid females	+	0	0

TABLE 9. CONT.'D

## AUGUST CRUISE

Transect	II		
	1	2	3
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0	1.0
<i>Acrocalanus andersoni</i>	0	0	0.6
<i>Acrocalanus longicornis</i>	0.4	2.9	1.0
<i>Aetideus acutus</i>	0	0	0.2
<i>Calanopia americana</i>	0.8	0	0.3
<i>Calanus tenuicornis</i>	0	0	0.6
<i>Calocalanus pavo</i>	0.2	2.3	1.8
<i>Calocalanus pavoninus</i>	0.1	2.3	0.9
<i>Calocalanus styliremis</i>	0	0.1	0.1
<i>Calocalanus</i> sp. 3	0	0	0.3
<i>Calocalanus</i> sp. 4	0	0	0.1
<i>Candacia curta</i>	0	0.1	0
<i>Candacia bipinnata</i>	0	0	0.1
<i>Centropages velificatus</i>	0.6	0.9	0.2
<i>Clausocalanus arcuicornis</i>	0	0	0.5
<i>Clausocalanus furcatus</i>	47.0	41.4	12.2
<i>Clausocalanus jobei</i>	0	0.1	5.5
<i>Clausocalanus mastigophorus</i>	0	0	0.1
<i>Clausocalanus parapergens</i>	0	0	0.2
<i>Ctenocalanus vanus</i>	0	0	2.8
<i>Euaugaptilus hecticus</i>	0	0	0.1

TABLE 9. CONT.'D

<i>Eucalanus pileatus</i>	0.1	0.1	0.1
<i>Euchaeta marina</i>	0	0	0.1
<i>Haloptilus acutifrons</i>	0	0	0.1
<i>Haloptilus longicornis</i>	0	0	0.7
<i>Heterorhabdus papilliger</i>	0	0	0.1
<i>Heterorhabdus spinifer</i>	0	0	0.1
<i>Ischnocalanus plumulosus</i>	0	0	0.3
<i>Lucicutia flavicornis</i>	0	0	2.8
<i>Lucicutia gaussae</i>	0	0	0.3
<i>Lucicutia paraclausi</i>	0	0	0.1
<i>Mecynocera clausii</i>	0	0	2.7
<i>Nannocalanus minor</i>	0	0.6	0.3
<i>Paracalanus aculeatus</i>	0.6	1.5	0.6
<i>Paracalanus denudatus</i>	0	0	0.2
<i>Paracalanus indicus</i>	0.8	0.5	0.3
<i>Paracalanus quasimodo</i>	2.6	3.9	0.6
<i>Paracandacia simplex</i>	0	0.1	0.2
<i>Parundinella spinodenticula</i>	0	0	0.1
<i>Scaphocalanus subcurtus</i>	0	0	0.3
<i>Scolecithricella ctenopus</i>	0	0	0.3
<i>Scolecithricella dentata</i>	0	0	0.1
<i>Scolecithricella tenuiserrata</i>	0	0	0.1
<i>Scolecithrix bradyi</i>	0	0	0.2
<i>Scolecithrix danae</i>	0	0	0.1
<i>Temora stylifera</i>	0.1	1.3	1.9
<i>Temora turbinata</i>	12.1	7.0	2.8



TABLE 9. CONT.'D

Undinula vulgaris	0	0.2	0.2
<u>CYCLOPOIDA</u>			
Copilia mirabilis	0	0.2	0.1
Corycaeus amazonicus	0	0	0.1
Corycaeus clausi	0	0	0.1
Corycaeus giesbrechti	4.2	0.1	1.7
Corycaeus latus	0	0.2	0.1
Corycaeus limbatus	0	0	0.2
Corycaeus minimus	0	0	0.1
Corycaeus speciosus	0	0.1	0.3
Corycaeus typicus	0	0	0.1
Farranula gracilis	27.2	18.5	8.8
Lubbockia squillimana	0	0	0.9
Oithona hamata	0	0	0.3
Oithona plumifera	1.5	12.0	14.5
Oithona robusta	0	0	0.5
Oithona setigera	0	0	8.5
Oithona tenuis	0	0	0.5
Oithona sp. 1	0	0	0.7
Oncaea conifera	0	0	0.9
Oncaea media	0.8	1.3	0.7
Oncaea mediterranea	0	0	14.4
Oncaea venusta	1.1	2.0	1.7
Sapphirina nigromaculata	0	0.2	0
Sapphirina ovatolanceolata	0	0.1	0.1
Siphonostomata sp. 1	0	0	0.1

TABLE 9. CONT.'D

HARPACTICOIDA

Clytemnestra scutellata

0 0 0.1

Macrosetella gracilis

0 0.1 0.3

TABLE 9. CONT.'D

SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0.3	0	0	0
<i>Acartia lilljeborgii</i>	12.0	0	0	0.6	0	0.1
<i>Acartia tonsa</i>	7.1	0	0	0.1	0	0
<i>Acrocalanus andersoni</i>	0	0	0.1	0	0	0.3
<i>Acrocalanus longicornis</i>	0	0.5	0.7	0.1	1.2	0.6
<i>Aetideus acutus</i>	0	0	0.1	0	0	0.1
<i>Calanopia americana</i>	0.1	0.2	0.7	0.4	1.0	0.9
<i>Calanus tenuicornis</i>	0	0	+	0	0	0
<i>Calocalanus pavo</i>	0	0.2	2.1	0	2.4	0.5
<i>Calocalanus pavoninus</i>	0	0	0.1	0	0	0.1
<i>Calocalanus styliremis</i>	0	0	0.2	0	0	0.1
<i>Calocalanus</i> sp. 3	0	0	0.2	0	0	0.5
<i>Calocalanus</i> sp. 4	0	0	+	0	0	0
<i>Centropages velificatus</i>	4.7	3.0	0	4.1	1.1	0.3
<i>Clausocalanus arcuicornis</i>	0	0	0.3	0	0	+
<i>Clausocalanus furcatus</i>	0	4.3	23.8	0.1	4.9	19.5
<i>Clausocalanus jobei</i>	0	0	11.9	0.1	0	12.6
<i>Clausocalanus parapergens</i>	0	0	0.6	0	0	+
<i>Clausocalanus pergens</i>	0	0	0.1	0	0	0
<i>Ctenocalanus vanus</i>	0	0	0.8	0	0	1.1
<i>Eucalanus pileatus</i>	0.7	1.5	0.1	12.0	0.5	0.1
<i>Eucalanus paraconcinna</i>	0	0	0	0	0	+

TABLE 9. CONT.'D

<i>Haloptilus longicornis</i>	0	0	0.2	0	0	0.2
<i>Ischnocalanus plumulosus</i>	0	0	0.1	0	0	+
<i>Labidocera aestiva</i>	0.3	0	0	0	0	0
<i>Labidocera scotti</i>	5.0	0.2	0	0	0	0
<i>Lucicutia flavicornis</i>	0	0	1.5	0	0	1.6
<i>Lucicutia gaussae</i>	0	0	0.1	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	+
<i>Mecynocera clausii</i>	0	0	0.9	0	0	0.2
<i>Nannocalanus minor</i>	0	0.2	0	0	0	+
<i>Paivella inaciae</i>	0	0	0	0	0	0.1
<i>Paracalanus aculeatus</i>	0.1	7.0	4.4	11.3	25.9	2.3
<i>Paracalanus crassirostris</i>	0.4	0.2	0	0	0	0
<i>Paracalanus denudatus</i>	0	0	0.1	0	0	0.2
<i>Paracalanus indicus</i>	2.0	0.4	0.5	9.4	2.0	0.6
<i>Paracalanus quasimodo</i>	19.1	18.2	2.5	39.0	17.7	1.5
<i>Parundinella spinodenticula</i>	0	0	0	0	0	0.4
<i>Scaphocalanus subcurtus</i>	0	0	0.2	0	0	0.1
<i>Scolecithricella tenuiserrata</i>	0	0	0.1	0	0	0.1
<i>Temora stylifera</i>	0	4.8	0.2	0	0.7	0.3
<i>Temora turbinata</i>	45.0	42.9	0.5	15.9	7.9	2.8
<i>Undinula vulgaris</i>	0	0.2	0	0	0.1	0
<u>CYCLOPOIDA</u>						
<i>Copilia lata</i>	0	0	0	0	0	+
<i>Copilia mirabilis</i>	0	0	0.3	0	0.3	0.1
<i>Corycaeus amazonicus</i>	1.2	2.0	0.2	3.1	2.1	0.2
<i>Corycaeus americanus</i>	0	0	0	0.2	0.1	0.1
<i>Corycaeus furcifer</i>	0	0	0	0	0	0.1
<i>Corycaeus giesbrechti</i>	0.5	5.2	2.2	2.8	4.3	4.0
<i>Corycaeus latus</i>	0	0	0.1	0	0.1	0.1

TABLE 9. CONT.'D

<i>Corycaeus lautus</i>	0	0	+	0	0.1	0.1
<i>Corycaeus limbatus</i>	0	0	0.1	0	0	0.1
<i>Corycaeus minimus</i>	0	0	0	0	0	0.1
<i>Corycaeus speciosus</i>	0	0	+	0	0	0.1
<i>Farranula gracilis</i>	0	1.0	4.3	0.1	7.7	4.8
<i>Farranula rostrata</i>	0	0	0.1	0	0	0.1
<i>Lubbockia squillimana</i>	0	0	0.2	0	0	0.1
<i>Oithona colcarva</i>	0.1	0	0	0	0	0
<i>Oithona hebes</i>	0.1	0	0	0	0	0
<i>Oithona nana</i>	0.5	0.3	0	0.2	0	0
<i>Oithona plumifera</i>	0.1	0.5	20.1	0.5	9.9	18.4
<i>Oithona robusta</i>	0	0	0	0	0	0.1
<i>Oithona setigera</i>	0	0	2.0	0	0	1.6
<i>Oithona tenuis</i>	0	0	0.2	0	0	0.1
<i>Oithona vivida</i>	0	0	+	0	0	0
<i>Oithona sp. 1</i>	0	0	0.3	0	0	0.2
<i>Oncaea conifera</i>	0	0	1.3	0	0	0.3
<i>Oncaea media</i>	0	0.2	0.5	0	0.1	0.4
<i>Oncaea mediterranea</i>	0	0.2	8.1	0	0	10.4
<i>Oncaea venusta</i>	0	5.7	6.2	0	8.3	11.0
<i>Sapphirina nigromaculata</i>	0	0	0	0	0	0.1
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0	0	0.1	0	0	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0	0.1
<i>Macrosetella gracilis</i>	0	0.5	+	0	1.9	0.1
Benthic harpacticoid females	1.0	0.8	0	0.1	0	0

TABLE 9. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
<u>CALANOIDA</u>						
<i>Acartia danae</i>	0	0	0	0	0	+
<i>Acartia lilljeborgii</i>	13.8	0	0	11.0	0	0
<i>Acartia tonsa</i>	2.1	0	0	2.2	0	0
<i>Acrocalanus longicornis</i>	0	1.6	0.7	0	0.1	1.9
<i>Calanopia americana</i>	0	2.2	2.0	6.6	0	0.4
<i>Calocalanus pavo</i>	0	0	0.6	0	0	2.1
<i>Calocalanus pavoninus</i>	0	0	0.2	0	0	2.6
<i>Calocalanus styliremis</i>	0	+	+	0	0.3	0.2
<i>Candacia curta</i>	0	0	0.1	0	0	+
<i>Centropages caribbeanensis</i>	0	0	0	0	0	0.1
<i>Centropages velificatus</i>	10.6	1.3	0.7	22.0	3.4	0.4
<i>Clausocalanus furcatus</i>	0.3	6.3	16.2	0	18.8	37.2
<i>Clausocalanus jobei</i>	0.2	0	0.8	0	0	1.5
<i>Eucalanus pileatus</i>	4.5	0.2	+	11.4	0	0
<i>Labidocera scotti</i>	2.8	0	0	1.9	0	0
<i>Lucicutia flavicornis</i>	0	0	0.1	0	0	0
<i>Lucicutia paraclausi</i>	0	0	0	0	0	+
<i>Mecynocera clausii</i>	0	0	+	0	0	0
<i>Nannocalanus minor</i>	0	+	0	0	0.1	0
<i>Paracalanus aculeatus</i>	0	43.5	13.6	0.5	3.5	3.3
<i>Paracalanus crassirostris</i>	0	0	0	0.2	0	0
<i>Paracalanus denudatus</i>	0	0	0	0	0	0.1
<i>Paracalanus indicus</i>	1.5	1.3	0.2	0.4	0	0.2
<i>Paracalanus quasimodo</i>	23.6	4.4	1.6	7.3	1.9	0.1

TABLE 9. CONT.'D

<i>Paracandacia simplex</i>	0	0	0	0	0	0.1
<i>Paraundinella spinodenticula</i>	0	0	0	0	0	0.4
<i>Temora stylifera</i>	0	0.3	0.3	0	0.1	0.5
<i>Temora turbinata</i>	22.5	2.0	4.0	32.8	0	2.3
<i>Undinula vulgaris</i>	0	0	0	0	0	0.1
<u>CYCLOPOIDA</u>						
<i>Copilia mirabilis</i>	0	0.1	0.4	0	0.2	0.1
<i>Corycaeus amazonicus</i>	10.9	1.0	0.6	1.3	1.0	0.1
<i>Corycaeus americanus</i>	0.7	0.2	0	0	0.6	0
<i>Corycaeus giesbrechti</i>	2.3	5.6	2.8	0.4	4.0	0.3
<i>Corycaeus latus</i>	0	0.1	0.1	0	0	0.2
<i>Corycaeus speciosus</i>	0	0	0.2	0	0	0.2
<i>Farranula gracilis</i>	0	2.0	11.8	0	0.2	14.9
<i>Farranula rostrata</i>	0	0	0	0	0	+
<i>Oithona nana</i>	0.3	0	0	0.2	0	0
<i>Oithona plumifera</i>	1.5	14.8	24.0	0.6	31.8	12.1
<i>Oithona setigera</i>	0	0	0	0	0	0.2
<i>Oithona simplex</i>	0	0	0	0.4	0	0
<i>Oithona tenuis</i>	0	0	+	0	0	0.1
<i>Oncaea media</i>	0	0.1	0.3	0	0.1	0.4
<i>Oncaea mediterranea</i>	0	0	3.8	0	0	0.8
<i>Oncaea venusta</i>	0	11.9	14.6	0	8.6	16.2
<i>Paroithona pulla</i>	0	0	0	0	0	0.4
<i>Sapphirina nigromaculata</i>	0	0.1	0.1	0	0.2	0
<u>HARPACTICOIDA</u>						
<i>Clytemnestra rostrata</i>	0.2	0.1	0	0	0.2	0
<i>Clytemnestra scutellata</i>	0	0	0	0	0.3	0.2

TABLE 9. CONT. 'D

Macrosetella gracilis	0.2	0.9	0.3	0.7	24.4	0.3
Benthic harpacticoid females	2.2	0	0	0.2	0	0



TABLE 9. CONT.'D  
NOVEMBER CRUISE

Transect	II		
	1	2	3
<u>CALANOIDA</u>			
<i>Acartia lilljeborgii</i>	0	+	0
<i>Acrocalanus andersoni</i>	0	0	0.1
<i>Acrocalanus longicornis</i>	0	3.8	1.2
<i>Calanopia americana</i>	0.6	0.6	0.2
<i>Calocalanus pavo</i>	0	1.4	2.1
<i>Calocalanus pavoninus</i>	0.1	0.2	2.5
<i>Calocalanus styliremis</i>	0	0.2	1.1
<i>Calocalanus sp.1</i>	0	0	0.1
<i>Calocalanus sp.4</i>	0	0	0.1
<i>Candacia curta</i>	0	+	+
<i>Candacia bipinnata</i>	0	+	0
<i>Centropages caribbeanensis</i>	0	0.1	0.1
<i>Centropages velificatus</i>	5.3	0.1	0.2
<i>Clausocalanus arcuicornis</i>	0	+	0.2
<i>Clausocalanus furcatus</i>	0	35.8	27.9
<i>Clausocalanus jobei</i>	0	0.1	0.1
<i>Clausocalanus mastigophorus</i>	0.1	0	0.2
<i>Clausocalanus parapergens</i>	0	0	+
<i>Clausocalanus paululus</i>	0	+	0.1
<i>Eucalanus pileatus</i>	16.2	0.8	0
<i>Euchaeta marina</i>	0	0	0.1

TABLE 9. CONT.'D

<i>Ischnocalanus plumulosus</i>	0	+	0.1
<i>Lucicutia flavicornis</i>	0	0	3.8
<i>Lucicutia gaussae</i>	0	0	0.2
<i>Mecynocera clausii</i>	0	+	0.6
<i>Nannocalanus minor</i>	0	1.1	0.2
<i>Paracalanus aculeatus</i>	4.5	13.3	3.8
<i>Paracalanus crassirostris</i>	0.3	0	0
<i>Paracalanus denudatus</i>	0	0	0.2
<i>Paracalanus indicus</i>	1.1	0.7	0.3
<i>Paracalanus quasimodo</i>	5.0	16.5	0.2
<i>Paracandacia bispinosa</i>	0	0	+
<i>Pontellopsis villosa</i>	0.1	0	0
<i>Scaphocalanus subcurtus</i>	0	0	0.1
<i>Scolecithrix danae</i>	0	0	0.1
<i>Temora stylifera</i>	0.5	+	0.1
<i>Temora turbinata</i>	53.1	0	0.9
<i>Undinula vulgaris</i>	0	1.0	0
<u>CYCLOPOIDA</u>			
<i>Copilia lata</i>	0	0	0.1
<i>Copilia mirabilis</i>	0	0.1	0.1
<i>Corycaeus amazonicus</i>	1.3	0.1	+
<i>Corycaeus americanus</i>	0.1	0	0
<i>Corycaeus clausi</i>	0	0	0.1
<i>Corycaeus giesbrechti</i>	0.7	1.0	0.4
<i>Corycaeus latus</i>	0.1	0.1	0.2
<i>Corycaeus lautus</i>	0	0	+
<i>Corycaeus limbatus</i>	0	0	+

TABLE 9. CONT.'D

<i>Corycaeus speciosus</i>	0	0.2	0.4
<i>Corycaeus typicus</i>	0	0	0.2
<i>Farranula gracilis</i>	0	7.2	10.3
<i>Lubbockia squillimana</i>	0	0	0.4
<i>Oithona nana</i>	1.6	0	0
<i>Oithona plumifera</i>	0	3.3	22.7
<i>Oithona setigera</i>	0	0	0.3
<i>Oithona tenuis</i>	0	0	0.5
<i>Oncaea conifera</i>	0	0	0.7
<i>Oncaea media</i>	0	0.7	0.7
<i>Oncaea mediterranea</i>	0	0	4.0
<i>Oncaea venusta</i>	0.5	11.1	11.6
<i>Sapphirina ovatolanceolata</i>	0	+	0
<i>Sapphirina stellata</i>	0	+	0
<i>Siphonostoma</i> sp.2	0	+	0
<u>HARPACTICOIDA</u>			
<i>Clytemnestra scutellata</i>	0	0	0.1
<i>Macrosetella gracilis</i>	0.3	0.1	0.5
Benthic harpacticoid females	8.6	0	0

TABLE 9. CONT.'D  
DECEMBER CRUISE

Transect	II		
	1	2	3
<u>CALANOIDA</u>			
<i>Acartia danae</i>	0	0.1	0.5
<i>Acartia tonsa</i>	0.1	0	0
<i>Acrocalanus andersoni</i>	0	0	0.3
<i>Acrocalanus longicornis</i>	0.1	0.8	1.1
<i>Aetideus acutus</i>	0	0	0.3
<i>Calanopia americana</i>	0	2.0	2.3
<i>Calanus tenuicornis</i>	0	0	0.3
<i>Calocalanus pavo</i>	0	1.1	2.1
<i>Calocalanus pavoninus</i>	0	0.3	0
<i>Calocalanus styliremis</i>	0	0.9	0.3
<i>Calocalanus sp.3</i>	0	0.1	0
<i>Calocalanus sp.4</i>	0	0.1	0
<i>Candacia curta</i>	0	0.2	0
<i>Centropages caribbeanensis</i>	0	0.1	0
<i>Centropages velificatus</i>	0.6	1.1	1.2
<i>Clausocalanus arcuicornis</i>	0	0	0.2
<i>Clausocalanus furcatus</i>	0.2	26.9	24.3
<i>Clausocalanus jobei</i>	0	0.2	0.7
<i>Clausocalanus parapergens</i>	0	0	0.1
<i>Clausocalanus paululus</i>	0	0	0.2
<i>Ctenocalanus vanus</i>	0	0	0.6

TABLE 9. CONT.'D

<i>Eucalanus pileatus</i>	1.2	1.0	3.0
<i>Euchaeta marina</i>	0	0	0.1
<i>Haloptilus longicornis</i>	0	0	0.5
<i>Lucicutia flavicornis</i>	0	0.1	2.7
<i>Lucicutia gaussae</i>	0	0	0.4
<i>Lucicutia gemina</i>	0	0	0.2
<i>Lucicutia paraclausi</i>	0	0	0.2
<i>Nannocalanus minor</i>	0	0	0.8
<i>Paracalanus aculeatus</i>	8.1	27.2	14.1
<i>Paracalanus denudatus</i>	0	0	0.1
<i>Paracalanus indicus</i>	59.4	14.6	3.5
<i>Paracalanus quasimodo</i>	19.6	3.3	1.8
<i>Paracandacia simplex</i>	0	0.2	0.2
<i>Parundinella spinodenticula</i>	0	0	1.1
<i>Pleuromamma abdominalis</i>	0	0	0.2
<i>Pleuromamma gracilis</i>	0	0	0.1
<i>Rhincalanus cornutus</i>	0	0.1	0
<i>Scaphocalanus subcurtus</i>	0	0	0.3
<i>Scolecithricella ctenopus</i>	0	0	0.1
<i>Scolecithricella dentata</i>	0	0	0.1
<i>Scolecithricella tenuiserrata</i>	0	0	0.5
<i>Scolecithrix danae</i>	0	0	0.1
<i>Temora stylifera</i>	0	0.6	0.1
<i>Temora turbinata</i>	3.6	1.3	7.8
<i>Undinula vulgaris</i>	0	0.1	0.3

TABLE 9. CONT.'D

<u>CYCLOPOIDA</u>			
<i>Copilia mirabilis</i>	0	0.1	0.1
<i>Corycaeus amazonicus</i>	2.5	0.3	0.8
<i>Corycaeus americanus</i>	0.2	0	0.4
<i>Corycaeus clausi</i>	0	0	0.1
<i>Corycaeus giesbrechti</i>	3.4	2.3	1.5
<i>Corycaeus limbatus</i>	0	0	0.2
<i>Corycaeus speciosus</i>	0	0.3	0.1
<i>Farranula gracilis</i>	0	1.7	0.8
<i>Lubbockia squillimana</i>	0	0	0.3
<i>Oithona nana</i>	0.2	0	0
<i>Oithona plumifera</i>	0.2	6.3	4.2
<i>Oithona robusta</i>	0	0	0.3
<i>Oithona setigera</i>	0	0	1.7
<i>Oithona tenuis</i>	0	0	0.1
<i>Oncaea conifera</i>	0	0	0.4
<i>Oncaea media</i>	0	0.1	0.1
<i>Oncaea mediterranea</i>	0.1	1.2	3.7
<i>Oncaea venusta</i>	0.4	3.8	12.0
<i>Paroithona pulla</i>	0	0	0.1
<i>Sapphirina nigromaculata</i>	0	0.1	0
<u>HARPACTICOIDA</u>			
<i>Macrosetella gracilis</i>	0.1	1.1	0.4
Benthic harpacticoid females	0.2	0.1	0

TABLE 10  
 NUMBER OF SPECIMENS AND SPECIES OF COPEPODS OBSERVED  
 AND CALCULATED SPECIES DIVERSITY INDEX AND EQUITABILITY  
 MEAN OF TWO SAMPLES PER STATION

Transect	Station	No. of Specimens (N)	No. of Species (S)	Species Diversity Index	Equitability $E = \frac{H(S)}{H_{\max}(S)}$
JANUARY/FEBRUARY CRUISE					
I	1	648	21	2.4546	0.5618
	2	370	36	3.6338	0.7062
	3	760	58	4.3603	0.7443
II	1	655	22	2.9312	0.6579
	2	686	49	3.7894	0.6748
	3	406	33	3.6268	0.7224
III	1	823	28	3.1433	0.6545
	2	648	55	4.1902	0.7266
	3	940	65	4.2372	0.7037
IV	1	1286	31	2.9079	0.5869
	2	576	38	3.4447	0.6599
	3	861	65	4.6526	0.7726
MARCH CRUISE					
II	1	807	20	2.1414	0.4920

TABLE 10. CONT.'D

	2	538	33	3.4494	0.6874
	3	630	48	3.9918	0.7157
APRIL CRUISE					
II	1	670	14	1.2852	0.3480
	2	572	28	2.8704	0.5983
	3	904	66	4.7150	0.7811
MAY/JUNE CRUISE					
I	1	856	21	2.8801	0.6559
	2	619	26	3.3986	0.7234
	3	801	68	4.7355	0.7797
II	1	814	14	2.5629	0.6893
	2	328	22	3.5049	0.7860
	3	600	63	4.4971	0.7525
III	1	367	17	2.4338	0.5956
	2	974	35	3.1286	0.6128
	3	1072	62	4.2601	0.7170
IV	1	745	21	2.6882	0.6123
	2	831	29	3.2265	0.6656
	3	1024	59	4.2528	0.7250
JULY CRUISE					
II	1	1061	25	2.8045	0.6084
	2	1053	35	2.8243	0.5529
	3	677	50	4.1373	0.7401



TABLE 10. CONT.'D

## AUGUST CRUISE

II	1	919	15	2.0939	0.5452
	2	850	23	2.8182	0.6234
	3	778	60	4.3576	0.7395

## SEPTEMBER CRUISE

I	1	546	16	2.4945	0.6261
	2	328	19	2.6023	0.6187
	3	915	40	3.6353	0.6870
II	1	643	15	2.6365	0.6764
	2	821	21	3.3056	0.7596
	3	1049	47	3.6774	0.6639
III	1	243	15	3.0596	0.7858
	2	844	22	2.8090	0.6349
	3	925	26	3.1608	0.6766
IV	1	272	15	2.7491	0.7126
	2	447	17	2.6756	0.6546
	3	1196	30	2.9199	0.5992

## NOVEMBER CRUISE

II	1	525	18	2.3239	0.5624
	2	1256	28	2.9389	0.6203
	3	967	42	3.3360	0.6187

## DECEMBER CRUISE

II	1	607	15	1.8984	0.4927
	2	548	28	2.9975	0.6278
	3	561	46	4.0102	0.7262

TABLE 11

THE NUMBER OF EACH MAJOR TAXON AND ITS PERCENTAGE  
 IN THE SUBSAMPLES OF THE ZOOPLANKTON TRACE METALS SAMPLES  
 JANUARY/FEBRUARY

Transect	I			II		
	1	2	3	1	2	3
Station	1	2	3	1	2	3
Code	BBBN	BBBO	BBBP	BBBQ	BBBR	BBBS
No. of Zooplankton	1315	2366	3324	1150	1210	1924
No. / %Copepoda	642/48.8	1905/80.5	2832/85.2	650/56.5	730/60.3	1138/59.1
Calanoida	571/43.4	1698/71.8	1962/59.0	548/47.7	666/55.0	830/43.1
Cyclopoida	69/5.2	201/8.5	867/26.1	98/8.5	64/5.3	307/16.0
Harpacticoida	2/0.2	6/0.3	3/0.1	4/0.3	0/0	1/0.1
No. / %Others	673/51.2	461/19.5	492/14.8	500/43.5	480/39.7	786/40.9
Ostracoda						
<u>Euconchoecia</u>	407/31.0	150/6.3	81/2.4	310/27.0	200/16.5	469/24.4
<u>Conchoecia</u>	0/0	0/0	10/0.3	0/0	0/0	0/0
Amphipoda	0/0	1/*	14/0.4	11/1.0	206/17.0	21/1.1
Euphausiacea	0/0	1/*	9/0.3	0/0	3/0.2	0/0
<u>Lucifer</u>	1/0.1	6/0.3	1/*	0/0	0/0	5/0.3
Other crustaceans	6/0.5	0/0	0/0	0/0	0/0	0/0
Barnacle nauplii	130/9.9	0/0	0/0	0/0	0/0	1/*
Barnacle cypris	73/5.6	1/*	3/0.1	6/0.5	0/0	1.*
Other nauplii	0/0	9/0.4	85/2.6	3/0.3	1/*	50/2.6
Decapod zoea	0/0	11/0.5	0/0	0/0	2/0.2	0/0
Decapod megalopa	0/0	1/*	1/*	0/0	0/0	0/0
Decapod larvae	0/0	0/0	0/0	1/0.1	0/0	3/0.2

TABLE 11. CONT.'D

Other crusta- cean larvae	11/0.8	16/0.7	31/0.9	0/0	0/0	9/0.5
Medusae	21/1.2	45/1.9	41/1.2	48/4.2	14/1.2	24/1.2
Polychaeta	0/0	7/0.3	1/*	4/0.3	0/0	7/0.4
Gastropod larvae	1/0.1	0/0	76/2.3	7/0.6	7/0.6	16/0.8
Heteropoda	0/0	0/0	0/0	2/0.2	1/0.1	0/0
Pteropoda	0/0	5/0.2	9/0.3	0/0	0/0	4/0.2
Bivalve larvae	13/1.0	4/0.2	19/0.6	15/1.3	4/0.3	3/0.2
Chaetognatha	10/0.8	118/5.0	31/0.9	70/6.1	8/0.7	16/0.8
Larvacea	0/0	64/2.7	66/2.0	20/1.7	7/0.6	86/4.5
<u>Doliolum</u>	0/0	19/0.8	8/0.2	2/0.2	27/2.2	70/3.6
<u>Salpa</u>	0/0	0/0	2/0.1	0/0	0/0	0/0
Other urochordata	0/0	0/0	1/*	0/0	0/0	0/0
Echinoderm larvae	0/0	2/0.1	3/0.1	1/0.1	0/0	1/0.1
Others	0/0	1/*	0/0	0/0	0/0	0/0

\* = less than 0.05%

TABLE 11. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station	1	2	3	1	2	3
Code	BBBT	BBBU	BBBV	BBBW	BBBX	BBBY
No. of Zooplankton	1052	2030	2552	999	1332	2948
No. / %Copepoda	426/40.5	958/47.2	1517/59.4	877/87.8	593/44.5	2152/73.0
Calanoida	400/38.0	820/40.4	1295/50.7	623/62.4	493/37.0	1751/59.4
Cyclopoida	24/2.3	137/6.7	212/8.3	196/19.6	97/7.3	394/13.4
Harpacticoida	2/0.2	1/*	10/0.4	58/5.8	3/0.2	7/0.2
No. / %Others	626/59.5	1072/52.8	1035/40.6	122/12.2	739/55.5	796/27.0
Cladocera						
<u>Penilia</u>	0/0	0/0	0/0	0/0	1/0.1	0/0
Ostracoda						
<u>Euconchoecia</u>	194/18.4	863/42.5	553/21.7	61/6.1	499/37.5	285/9.7
<u>Conchoecia</u>	0/0	0/0	0/0	0/0	0/0	10/0.3
Mysidacea	0/0	1/0.1	0/0	0/0	0/0	1/*
Amphipoda	7/0.7	2/0.1	7/0.3	3/0.3	8/0.6	2/0.1
Euphausiacea	0/0	0/0	0/0	0/0	0/0	7/0.2
<u>Lucifer</u>	0/0	3/0.1	9/0.4	3/0.3	5/0.4	3/0.1
Barnacle nauplii	226/21.5	1/0.1	0/0	1/0.1	0/0	1/*
Barnacle cypris	132/12.5	2/0.1	2/0.1	0/0	8/0.6	1/*
Other nauplii	0/0	5/0.3	7/0.3	1/0.1	10/0.8	24/0.8
Decapod zoea	1/0.1	0/0	4/0.2	26/2.6	2/0.2	5/0.2
Decapod megalopa	0/0	0/0	1/*	0/0	0/0	1/*
Decapod larvae	0/0	3/0.2	9/0.4	3/0.3	0/0	5/0.2

TABLE 11. CONT.'D

Other crustacean larvae	0/0	1/0.1	11/0.4	0/0	8/0.6	31/1.1
Medusae	46/4.3	54/2.7	128/5.0	5/0.5	39/2.9	90/3.1
Polychaeta	3/0.3	11/0.5	4/0.2	1/0.1	23/1.7	6/0.2
Gastropod larvae	4/0.4	6/0.3	1/*	2/0.2	4/0.3	22/0.7
Heteropoda	0/0	1/*	1/*	0/0	0/0	1/*
Pteropoda	0/0	2/0.1	4/0.2	0/0	5/0.4	8/0.3
Bivalve larvae	7/0.6	3/0.2	0/0	4/0.4	9/0.7	5/0.2
Chaetognatha	4/0.4	46/2.3	69/2.7	11/1.1	43/3.2	91/3.1
Larvacea	1/0.1	57/2.8	200/7.8	1/0.1	66/5.0	157/5.3
<u>Doliolum</u>	1/0.1	7/0.3	14/0.6	0/0	7/0.5	15/0.5
<u>Salpa</u>	0/0	0.0	5/0.2	0/0	0/0	20/0.7
Echinoderm larvae	0/0	4/0.2	6/0.2	0/0	3/0.2	0/0
Others	0/0	0/0	0/0	0/0	0/0	5/0.2

\* = less than 0.05%

TABLE 11. CONT.'D

THE NUMBER OF EACH MAJOR TAXON AND ITS PERCENTAGE  
 IN THE SUBSAMPLES OF THE ZOOPLANKTON TRACE METALS SAMPLES  
 MAY/JUNE CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station						
Code	BIYT	BJAU	BKCY	BJFC	BJHE	BJJK
No. of Zooplankton	963	1053	746	2156	1148	751
No. / %Copepoda	506/52.5	240/22.8	350/46.9	1020/47.3	194/16.9	197/26.2
Calanoida	266/27.6	58/5.5	256/34.3	643/29.8	84/7.3	169/22.5
Cyclopoida	238/24.7	176/16.7	93/12.5	368/17.1	109/9.5	26/5.5
Harpacticoida	2/0.2	6/0.6	1/0.1	9/0.4	1/0.1	2/0.3
No. / %Others	457/47.5	813/77.2	396/53.1	1136/52.7	954/83.1	554/73.8
Cladocera	265/58.0	248/23.6	0/0	957/44.4	11/1.0	1/0.1
Ostracoda						
<u>Euconchoecia</u>	0/0	145/13.7	254/34.1	1/*	756/65.9	467/62.2
Amphipoda	4/0.4	4/0.4	20/2.7	2/0.1	9/0.8	10/1.3
<u>Lucifer</u>	1/0.1	3/0.3	0/0	2/0.1	2/0.2	1/0.1
Barnacle nauplii	0/0	0/0	0/0	3/0.1	0/0	0/0
Barnacle cypris	0/0	0/0	0/0	7/0.3	2/0.2	5/0.7
Other nauplii	0/0	1/0.1	0/0	0/0	0/0	0/0
Decapod zoea	6/0.6	4/0.4	0/0	4/0.2	3/0.3	0/0
Other decapod larvae	11/1.4	2/0.2	5/0.7	10/0.5	4/0.4	4/0.5
Stomatopod larvae	0/0	0/0	2/0.3	0/0	2/0.2	0/0

TABLE 11. CONT.'D

Other crustacean larvae	8/0.8	1/0.1	2/0.3	26/1.2	0/0	0/0
Medusae	0/0	5/0.5	15/2.0	13/0.6	2/0.2	2/0.3
Polychaeta	0/0	1/0.1	0/0	0/0	0/0	0/0
Gastropod larvae	19/2.0	82/7.8	8/1.1	12/0.6	20/1.7	5/0.7
Pteropoda	8/8.3	64/6.1	9/1.2	2/0.1	80/7.0	8/1.1
Bivalve larvae	117/12.2	14/1.3	7/0.9	34/1.6	0/0	8/1.1
Chaetognatha	3/0.3	219/20.8	63/8.4	49/2.3	58/5.1	41/5.5
Larvacea	1/0.1	3/0.3	8/1.1	6/0.3	0/0	0/0
<u>Doliolum</u>	0/0	1/0.1	0/0	0/0	1/0.1	1/0.1
<u>Salpa</u>	0/0	0/0	3/0.4	0/0	2/0.2	1/0.1
Echinoderm larvae	13/1.4	0/0	0/0	6/0.3	2/0.2	0/0
Others	0/0	16/1.5	0/0	2/0.1	0/0	0/0

\* = less than 0.05%

TABLE 11. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Station						
Code	BJMJ	BJOJ	BJQM	BJSN	BJUN	BJWQ
No. of Zooplankton	1215	697	780	700	1213	475
No. / %Copepoda	416/34.2	174/25.0	131/17.9	341/48.7	254/20.9	373/78.5
Calanoida	309/25.4	111/15.9	88/11.2	247/35.3	210/17.3	334/70.3
Cyclopoida	106/8.7	60/8.6	48/6.5	92/13.1	44/3.6	39/8.2
Harpacticoida	1/0.1	3/0.4	2/0.3	2/0.3	0/0	0/0
No. / %Others	799/65.8	523/75.0	602/82.1	359/51.3	959/79.1	102/21.5
Cladocera	490/40.3	167/24.0	28/3.8	197/28.1	4/0.3	15/3.2
Ostracoda						
<u>Euconchoecia</u>	145/11.9	234/33.6	418/57.0	33/4.7	833/68.7	0/0
Amphipoda	4/0.3	7/1.0	4/0.6	63/9.0	19/1.6	4/0.8
<u>Lucifer</u>	7/0.6	1/0.1	6/0.8	2/0.3	3/0.3	2/0.4
Barnacle cypris	1/0.1	0/0	2/0.3	0/0	0/0	0/0
Other nauplii	0/0	2/0.3	1/0.1	0/0	0/0	0/0
Decapod zoea	2/0.2	4/0.6	14/1.9	5/0.7	5/0.4	5/1.1
Decapod megalopa	0/0	1/0.1	0/0	0/0	0/0	0/0
Other decapod larvae	7/0.6	6/0.9	8/1.1	5/0.7	0/0	7/1.5
Stomatopod larvae	1/0.1	0/0	4/0.6	0/0	0/0	0/0
Other crustacean larvae	3/0.3	1/0.1	5/0.7	0/0	0/0	0/0
Medusae	6/0.5	2/0.3	3/0.4	2/0.3	0/0	11/2.3



TABLE 11. CONT.'D

Polychaeta	5/0.4	0/0	0/0	1/0.1	0/0	2/0.4
Gastropod larvae	18/1.5	20/2.9	6/0.8	9/1.3	16/1.3	2/0.4
Heteropoda	3/0.3	0/0	0/0	0/0	1/0.1	0/0
Pteropoda	2/0.2	16/2.3	13/1.8	5/0.7	14/1.2	9/2.0
Bivalve larvae	34/2.8	4/0.6	1/0.1	16/2.3	29/2.4	0/0
Chaetognatha	63/5.2	48/6.9	55/7.5	11/1.6	0/0	44/9.3
Larvacea	2/0.2	2/0.3	1/0.1	9/1.3	29/2.4	1/0.2
<u>Doliolum</u>	4/0.3	8/1.2	32/4.4	1/0.1	6/0.5	0/0
Echinoderm larvae	0/0	0/0	2/0.3	0/0	0/0	0/0
Others	2/0.2	0/0	0/0	0/0	0/0	0/0

\* = less than 0.05%

TABLE 11. CONT.'D

THE NUMBER OF EACH MAJOR TAXON AND ITS PERCENTAGE  
 IN THE SUBSAMPLES OF THE ZOOPLANKTON TRACE METALS SAMPLES  
 SEPTEMBER CRUISE

Transect	I			II		
	1	2	3	1	2	3
Station	BOCB	BOEB	BOGD	BOIS	BOKU	BOMY
No. of Zooplankton	738	1154	1206	1544	1131	781
No. / %Copepoda	602/81.6	871/75.5	939/77.9	1027/66.5	423/37.4	469/60.1
Calanoida	574/77.8	725/62.8	786/65.2	930/60.2	318/28.1	313/40.1
Cyclopoida	28/3.8	145/12.6	153/12.7	89/5.8	104/9.2	152/19.5
Harpacticoida	0/0	1/0.1	0/0	8/0.5	1/0.1	4/0.5
No. / %Others	136/18.4	283/24.5	267/22.1	517/33.5	708/62.6	312/40.0
Cladocera						
<u>Podon</u>	0/0	0/0	7/0.6	0/0	0/0	0/0
Ostracoda						
<u>Euconchoecia</u>	0/0	1/0.1	6/0.5	1/0.1	1/0.1	134/17.2
Mysidacea	0/0	0/0	0/0	4/0.3	0/0	0/0
Amphipoda	0/0	1/0.1	2/0.2	0/0	4/0.4	2/0.3
<u>Lucifer</u>	5/0.7	9/0.8	0/0	1/0.1	12/1.1	2/0.3
Other nauplii	0/0	1/0.1	1/0.1	9/0.6	0/0	1/0.1
Decapod zoea	0/0	11/1.0	1/0.1	3/0.2	135/11.9	25/3.2
Decapod larvae	8/1.1	4/0.4	28/2.3	0/0	21/1.9	7/0.9
Other crustacean larvae	63/8.5	7/0.6	7/0.6	261/16.9	8/0.7	3/0.4
Medusae	0/0	5/0.4	12/1.0	10/0.7	1/0.1	4/0.5
Polychaeta	0/0	1/0.1	0/0	5/0.3	1/0.1	0/0

TABLE 11. CONT.'D

Gastropod larvae	1/0.1	144/12.5	112/9.3	17/1.1	305/27.0	46/5.9
Pteropoda	0/0	14/1.2	6/0.5	0/0	0/0	7/0.9
Bivalve larvae	40/5.4	19/1.7	42/3.5	127/8.2	7/0.6	43/5.5
Chaetognatha	13/1.8	5/0.4	13/1.1	64/4.2	81/7.2	7/0.9
Larvacea	4/0.5	59/5.1	28/2.3	13/0.8	105/9.3	30/3.8
<u>Doliolum</u>	0/0	0/0	1/0.1	0/0	0/0	1/0.1
Echinoderm larvae	2/0.3	2/0.2	1/0.1	2/0.1	24/2.1	0/0

TABLE 11. CONT.'D

Transect	III			IV		
	1	2	3	1	2	3
Code	BOPU	BORU	BOTW	BOVT	BOXT	BOZV
No. of Zooplankton	643	735	733	316	537	552
No. / %Copepoda	282/43.9	390/53.1	630/86.0	189/59.8	172/32.0	505/91.5
Calanoida	274/42.6	308/41.9	499/68.1	178/56.3	86/16.0	392/71.0
Cyclopoida	7/1.1	81/11.0	128/17.5	10/3.2	70/13.0	113/20.5
Harpacticoida	1/0.2	1/0.1	3/0.4	1/0.3	16/3.0	0/0
No. / %Others	361/56.1	345/46.9	103/14.1	127/40.2	365/68.0	47/8.5
Cladocera						
<u>Podon</u>	1/0.2	4/0.5	1/0.1	0/0	1/0.2	0/0
Ostracoda						
<u>Euconchoecia</u>	0/0	103/14.0	0/0	1/0.3	4/0.8	7/1.3
Mysidacea	0/0	1/0.1	0/0	0/0	0/0	0/0
Amphipoda	3/0.5	8/1.1	0/0	3/1.0	0/0	3/0.5
<u>Lucifer</u>	9/1.4	3/0.4	1/0.1	8/2.5	18/3.4	0/0
Other crustaceans	0/0	0/0	0/0	1/0.3	0/0	0/0
Barnacle nauplii	0/0	4/0.5	0/0	5/1.6	0/0	0/0
Other nauplii	10/1.6	0/0	0/0	1/0.3	10/1.9	0/0
Decapod zoea	5/0.8	74/10.1	2/0.3	0/0	18/3.4	0/0
Decapod larvae	4/0.6	36/4.9	11/1.5	5/1.6	8/1.5	4/0.7
Other crustacean larvae	253/39.4	14/1.9	0/0	17/5.4	3/0.6	0/0

TABLE 11. CONT.'D

Medusae	25/3.9	6/0.8	6/0.8	3/0.9	9/1.7	2/0.4
Polychaeta	19/3.0	5/0.7	1/0.1	4/1.3	5/0.9	2/0.4
Gastropod larvae	6/0.9	30/4.1	6/0.8	3/0.9	184/34.3	11/2.0
Pteropoda	0/0	4/0.5	3/0.4	0/0	8/1.5	0/0
Bivalve larvae	4/0.6	9/1.2	6/0.8	23/7.3	22/4.1	1/0.2
Chaetognatha	15/2.3	19/2.6	6/0.8	11/3.5	11/2.1	7/1.3
Larvacea	5/0.8	17/2.3	59/8.1	16/5.1	55/10.2	7/1.3
Echinoderm larvae	2/0.3	8/1.1	1/0.1	26/8.2	9/1.7	3/0.5



### **The Department of the Interior Mission**

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



### **The Minerals Management Service Mission**

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.