

File Names

14:44 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_CSTN_J-R_AROM-ACIDS_HIVOL_20010810D5_V1.csv

Dataset Key Phrases

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Sampling Interval As Reported in Main Table	Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym	Study Or Network Name
NARSTO 2002/05/28 (2.301)	Rudolph ; Dr. Jochen	Centre for Atmospheric Chemistry, York University	phenol_ arom_alpha ; Aromatic organic acids, phenol and aliphatic acids measurements	Grab	Variable interval	1	YORKU	York University	Jochen Rudolph. Centre For Atmospheric Chemistry, York University, Steacie Building room 006. 4700Keele St., Toronto M3J 1P3	PAC2001	Pacific 2001

Country Code	State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation	Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File	Companion File Name format And Version	Date This File Generated archive Version Number
CA (CANADA)	BC	Jochen Rudolph. Centre For Atmospheric Chemistry, York University, Steacie Building room 006. 4700Keele St., Toronto M3J 1P3	Gao ; Shidong	Centre for Atmospheric Chemistry, York University	Caroline How, Centre for Atmospheric Chemistry, York University	2002/05/22	MS Excel /2000	None ; 0	2004/10/29 ; 1

Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
Filter blanks had levels of benzoate, formate and lactate often exceeding those found in aerosol samples, giving negative values for this compound after blank correction	Values below the detection limits have been replaced by the analytical detection limit and flaggedV7	Uncertainty values are given as a fixed percentage of the measured values for each compound. Please see TABLE COLUMN USER NOTE 2 for percentage					phenol_ arom_alpha	Surface--fixed

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
PC01CABCCSTN	Cassiar Tunnel (North End)	BC	49.28389	-123.03194	1.6	-99.9	Mobile	Urban and center city	2001/08/09	2001/08/15	None	CSTS	15.0

NARSTO Standard Flags

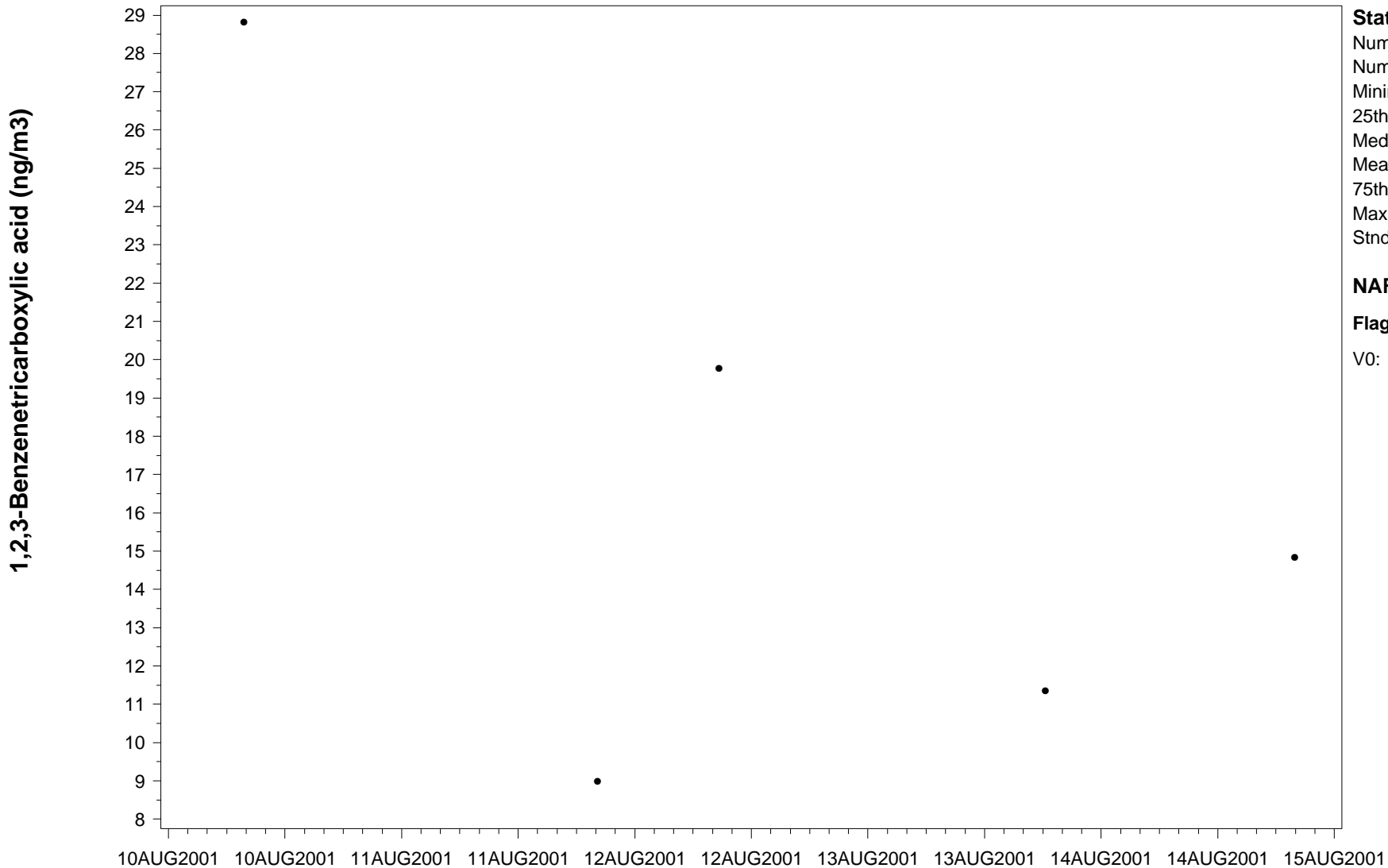
Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,2,3-Benzenetricarboxylic acid** Common Name: **1,2,3-Benzenetricarboxylic acid** Units: **ng/m3**
 Sampling interval: **Grab** CAS ID: **C569-51-7** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**
 Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor**
 Medium: **Quartz** Inlet type: **Impactor--direct** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6**
 Wavelength (NM): **199** Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.013**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **8.99**
 25th Percentile: **11.35**
 Median: **14.84**
 Mean: **16.754**
 75th Percentile: **19.78**
 Maximum: **28.81**
 Stnd Dev.: **7.868**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

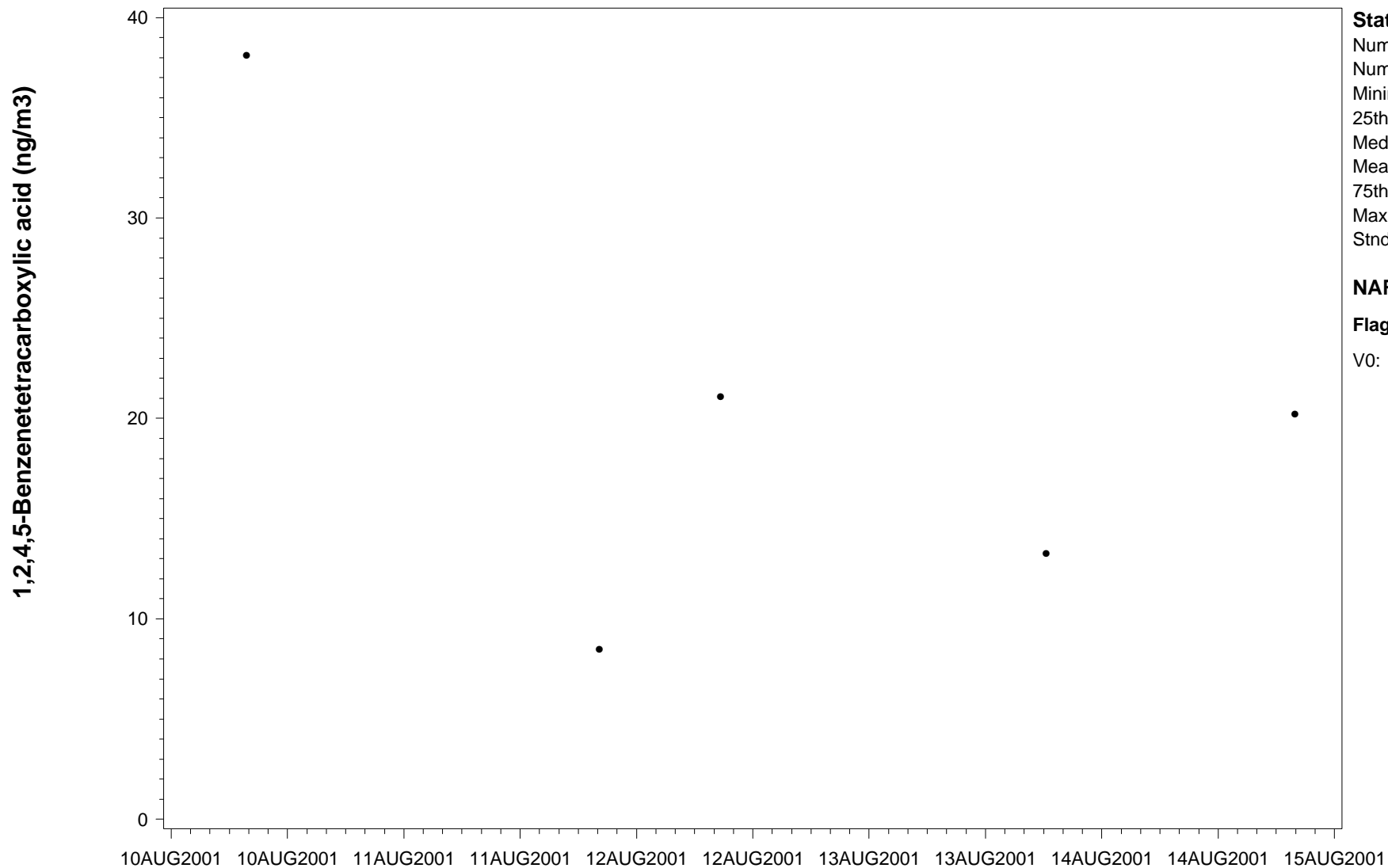
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,2,4,5-Benzenetetracarboxylic acid** Common Name: **1,2,4,5-Benzenetetracarboxylic acid** Units: **ng/m3**
 Sampling interval: **Grab** CAS ID: **C89-05-4** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**
 Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor**
 Medium: **Quartz** Inlet type: **Impactor--direct** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6**
 Wavelength (NM): **199** Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.018**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **8.46**
 25th Percentile: **13.24**
 Median: **20.22**
 Mean: **20.228**
 75th Percentile: **21.09**
 Maximum: **38.13**
 Stnd Dev.: **11.275**

NARSTO Flags

Flag Symbol Count

V0: ● 5

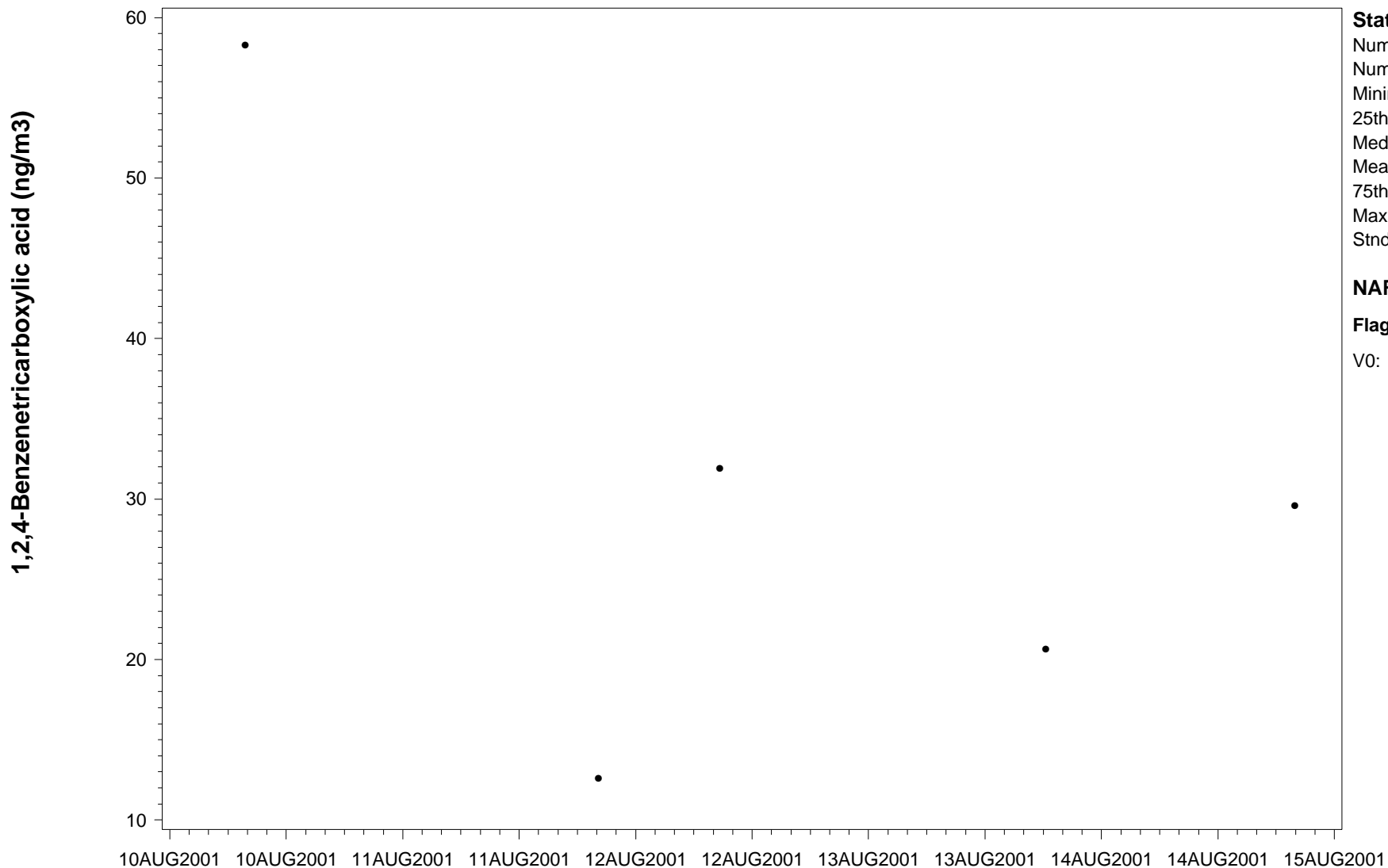
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,2,4-Benzenetricarboxylic acid** Common Name: **1,2,4-Benzenetricarboxylic acid** Units: **ng/m3**
 Sampling interval: **Grab** CAS ID: **C528-44-9** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**
 Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor**
 Medium: **Quartz** Inlet type: **Impactor--direct** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6**
 Wavelength (NM): **199** Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.009**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **12.58**
 25th Percentile: **20.66**
 Median: **29.6**
 Mean: **30.610**
 75th Percentile: **31.94**
 Maximum: **58.27**
 Stnd Dev.: **17.262**

NARSTO Flags

Flag Symbol Count

V0: ● 5

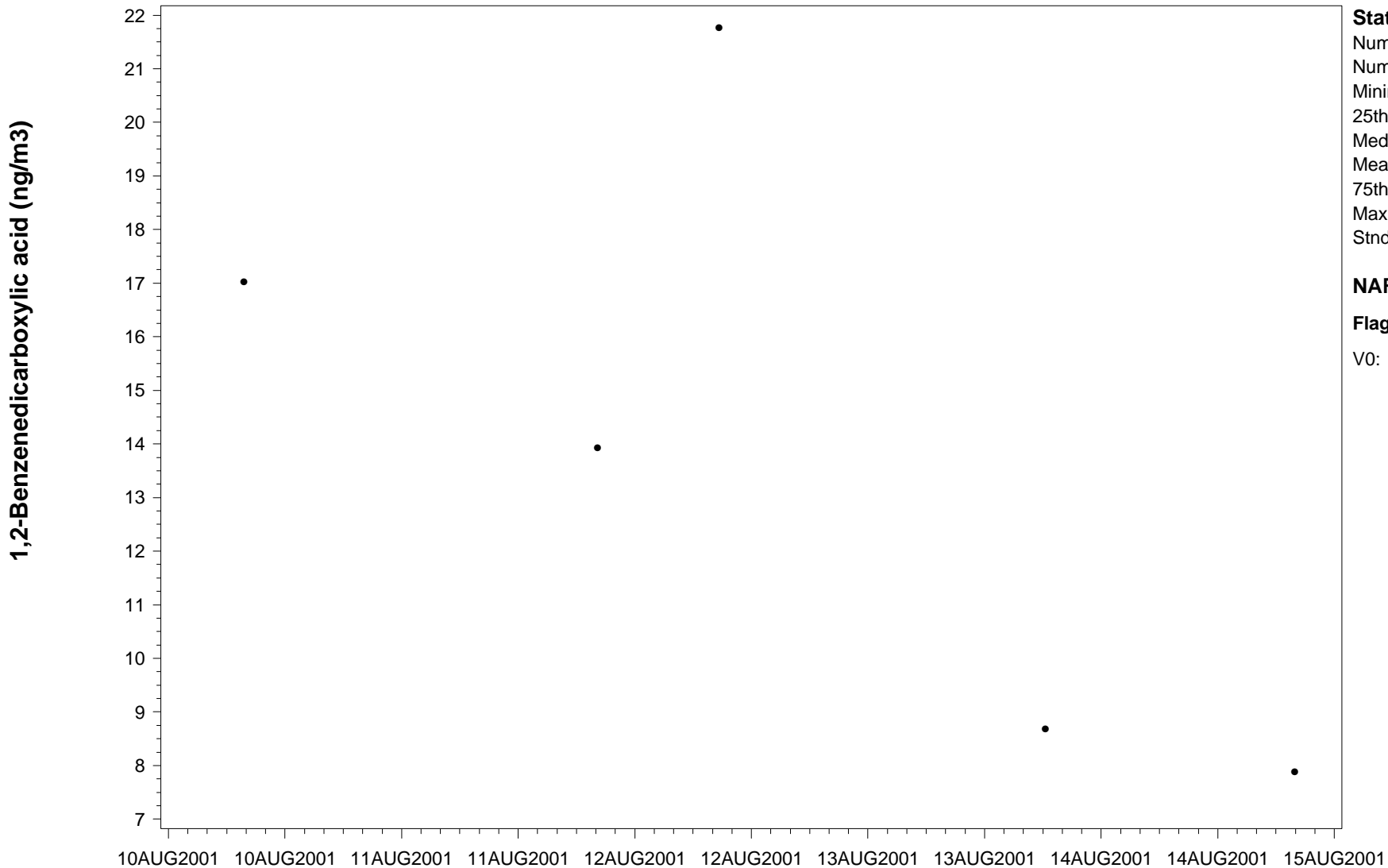
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,2-Benzenedicarboxylic acid** Common Name: **Phthalic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C88-99-3**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **199**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.008**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **7.88**
 25th Percentile: **8.68**
 Median: **13.93**
 Mean: **13.856**
 75th Percentile: **17.03**
 Maximum: **21.76**
 Stnd Dev.: **5.811**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

Time Zone: PDT

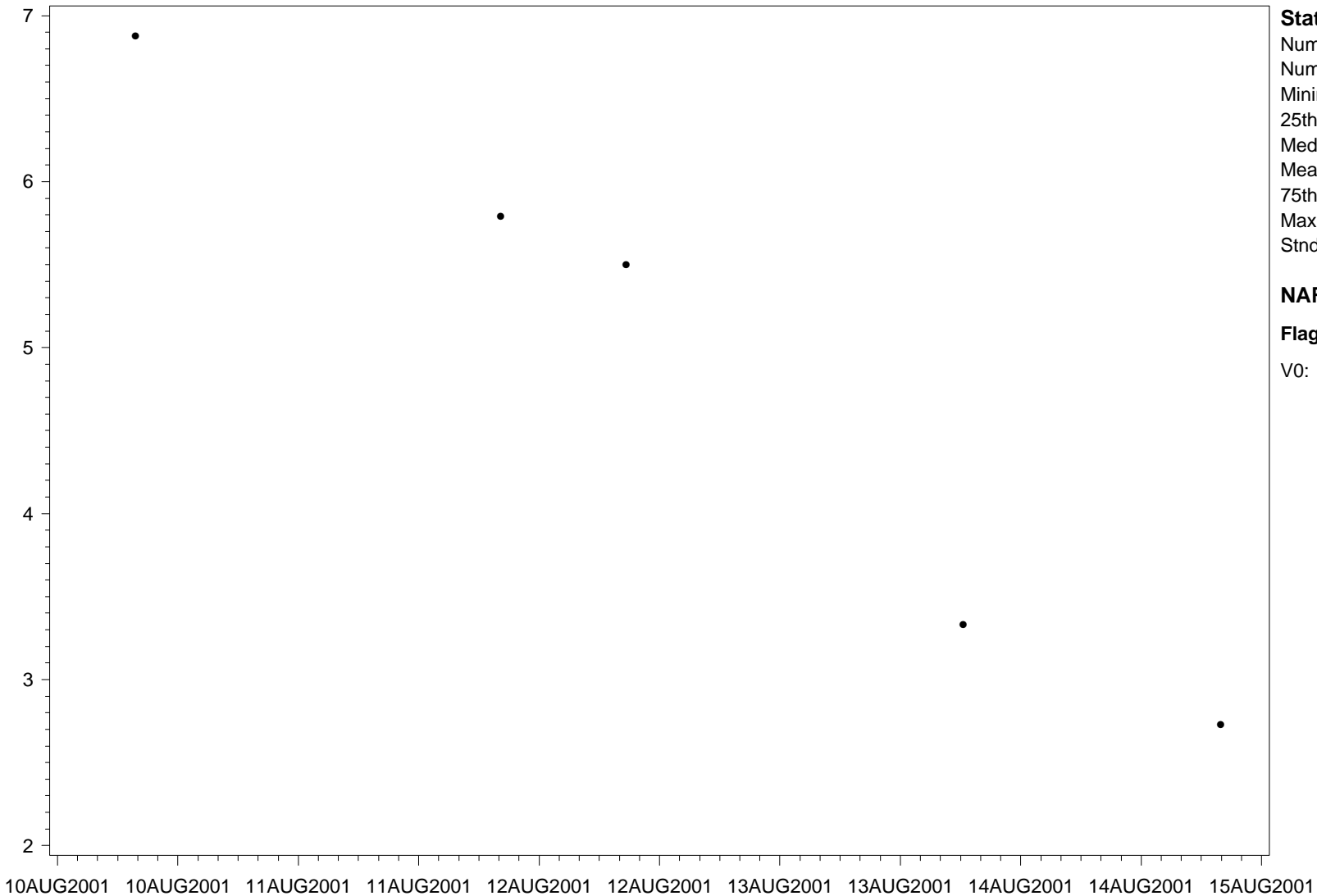
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,2-Benzenedicarboxylic acid, monomethyl ester** Common Name: **Methyl hydrogen phthalate** Units: **ng/m3**
 Sampling interval: **Grab** CAS ID: **C4376-18-5** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**
 Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor**
 Medium: **Quartz** Inlet type: **Impactor--direct** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction**
 Blank Correction: **Blank corrected** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6**
 Wavelength (NM): **199** Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.007**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**

1,2-Benzenedicarboxylic acid, monomethyl ester (ng/m3)



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **2.73**
 25th Percentile: **3.33**
 Median: **5.5**
 Mean: **4.846**
 75th Percentile: **5.79**
 Maximum: **6.88**
 Stnd Dev.: **1.749**

NARSTO Flags

Flag Symbol Count
 V0: ● 5

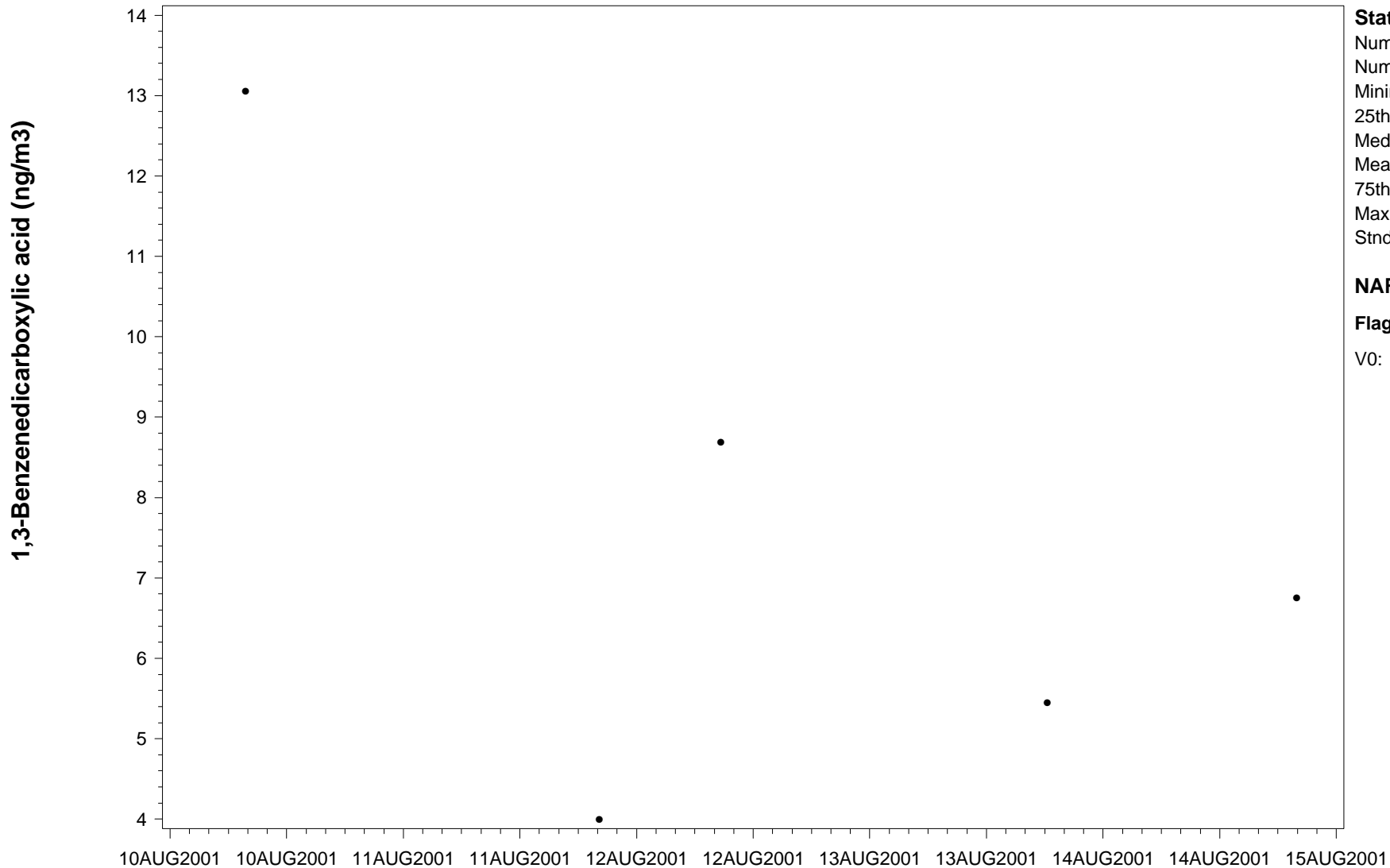
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,3-Benzenedicarboxylic acid** Common Name: **Isophthalic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C121-91-5**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **199**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.006**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **4**
 25th Percentile: **5.45**
 Median: **6.75**
 Mean: **7.588**
 75th Percentile: **8.69**
 Maximum: **13.05**
 Stnd Dev.: **3.507**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

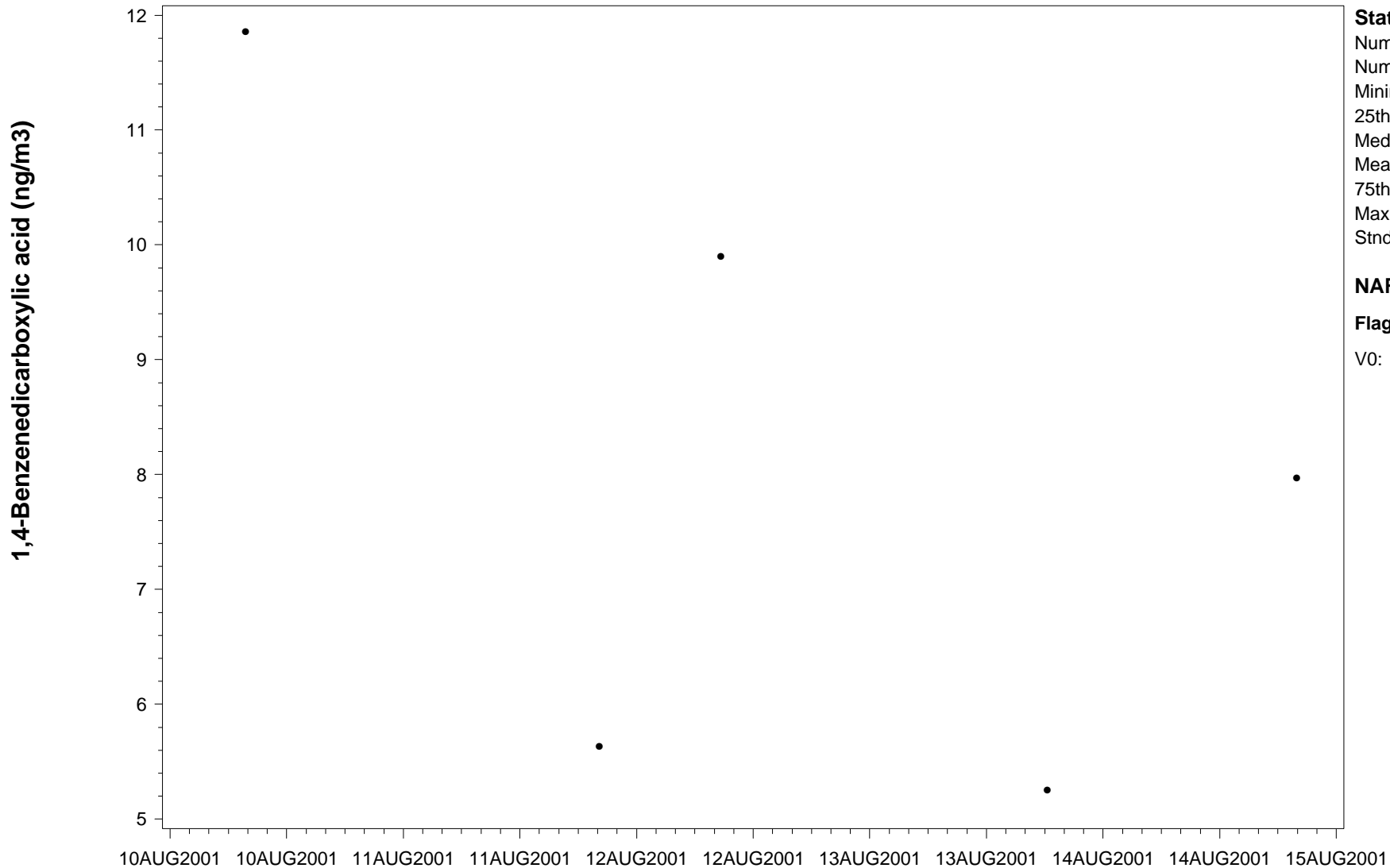
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **1,4-Benzenedicarboxylic acid** Common Name: **Terephthalic acid** Units: **ng/m3** Sampling interval: **Grab**
 CAS ID: **C100-21-0** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **239**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.016**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **5.25**
 25th Percentile: **5.63**
 Median: **7.97**
 Mean: **8.122**
 75th Percentile: **9.9**
 Maximum: **11.86**
 Stnd Dev.: **2.811**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

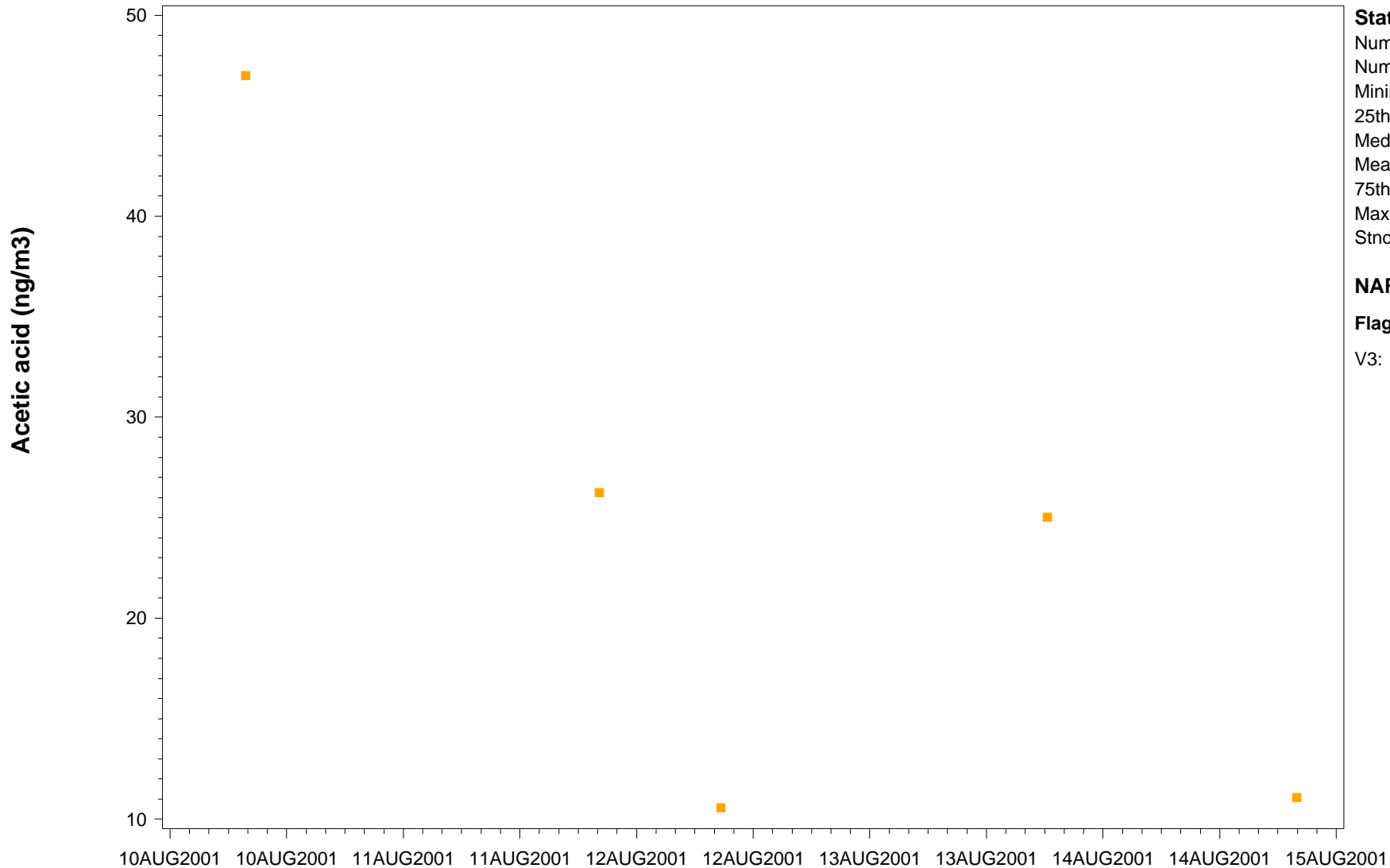
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Acetic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C64-19-7** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.027**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **10.567**
 25th Percentile: **11.066**
 Median: **25.029**
 Mean: **23.981**
 75th Percentile: **26.241**
 Maximum: **47.002**
 Stnd Dev.: **14.857**

NARSTO Flags

Flag Symbol Count

V3: ■ **5**

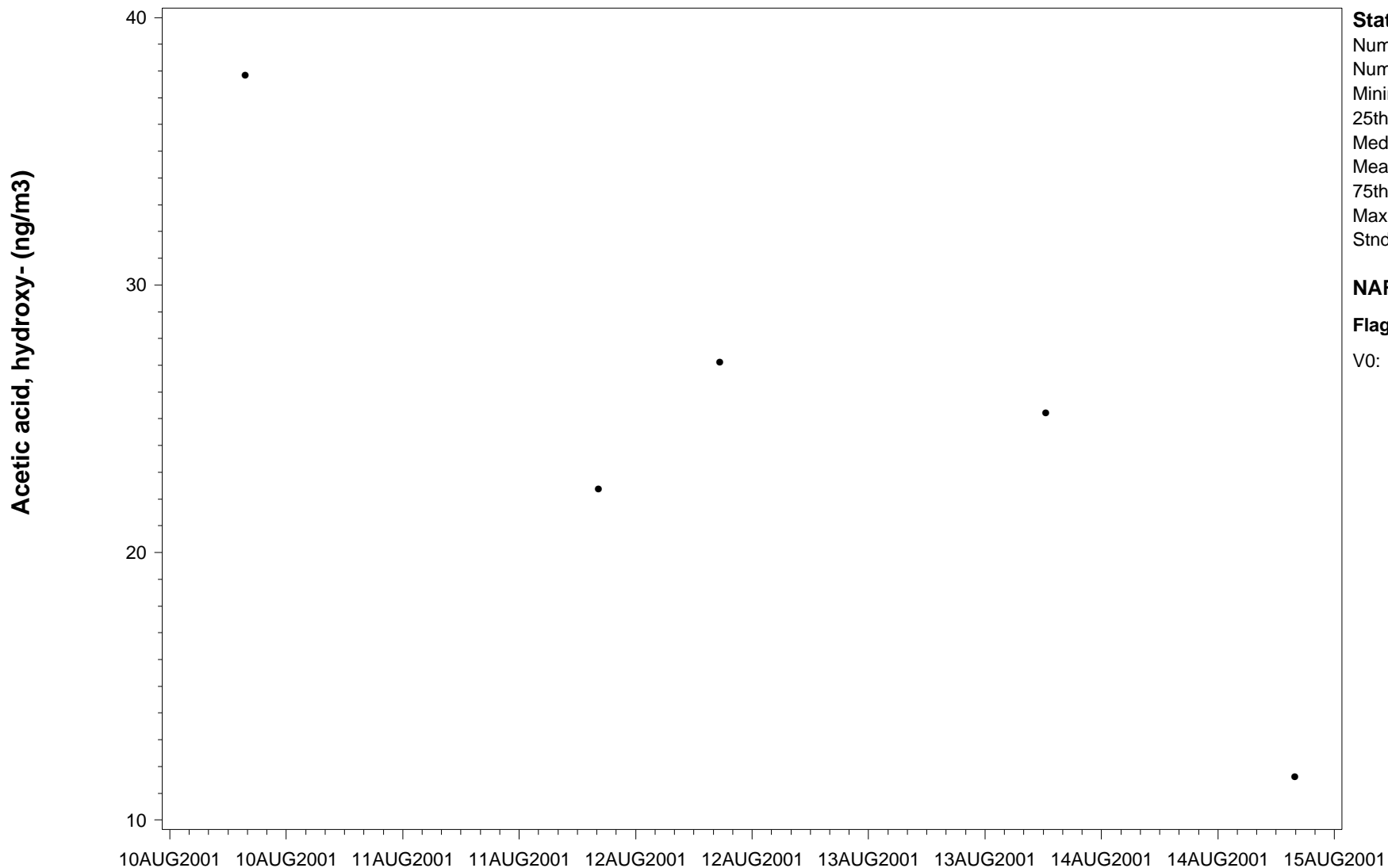
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Acetic acid, hydroxy-** Common Name: **Glycolic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C79-14-1**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.047**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **11.609**
 25th Percentile: **22.391**
 Median: **25.205**
 Mean: **24.836**
 75th Percentile: **27.118**
 Maximum: **37.857**
 Stnd Dev.: **9.432**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Benzoic acid (7Cl, 8Cl, 9Cl)** Common Name: **Benzoic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C65-85-0**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **192**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.129**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: 5
 Number of missing: 2
 Minimum: 3.41
 25th Percentile: 3.41
 Median: 3.55
 Mean: 3.557
 75th Percentile: 3.71
 Maximum: 3.71
 Std Dev.: 0.150

NARSTO Flags
Flag Symbol Count
 M1: 2
 V3: 3

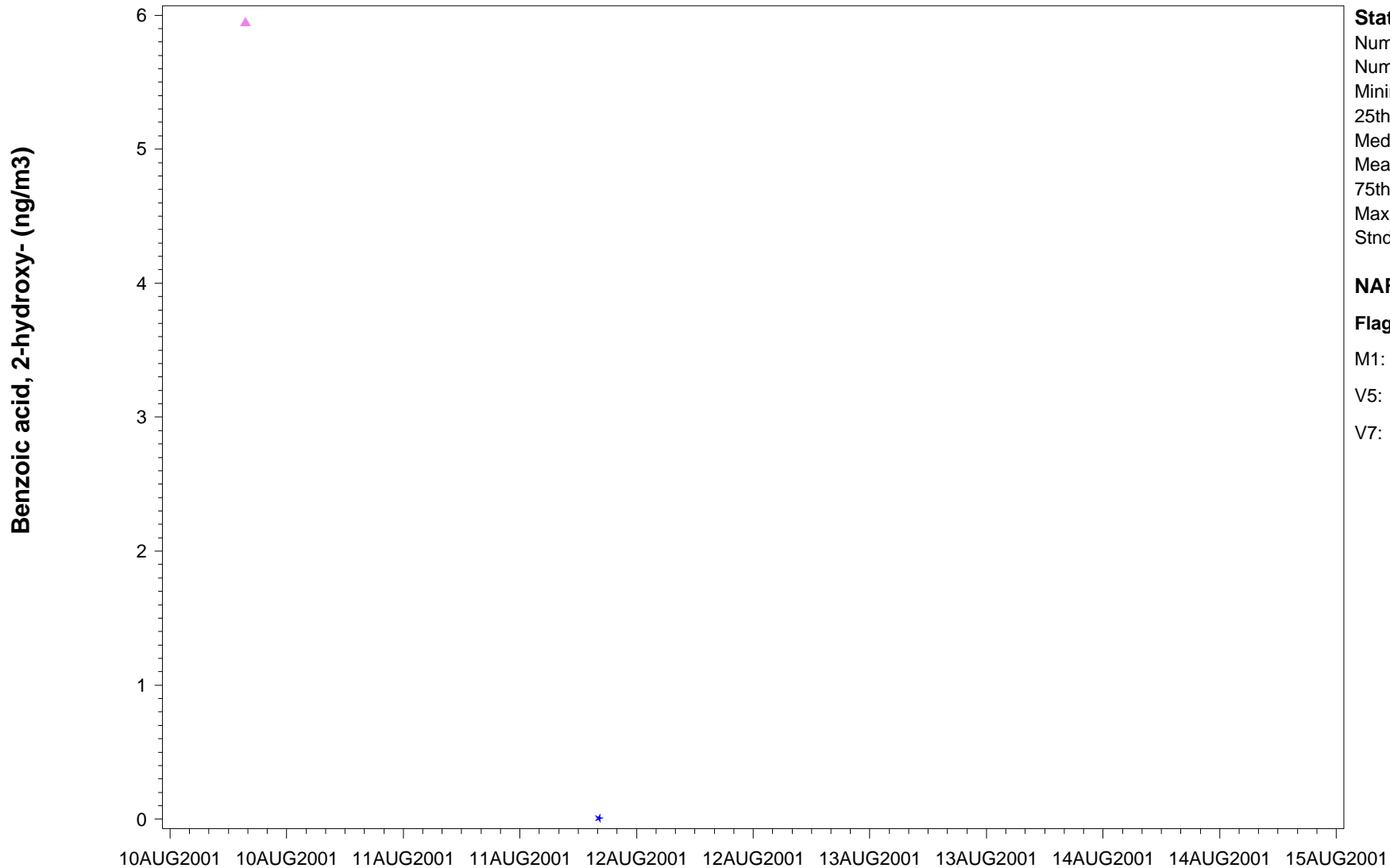
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Benzoic acid, 2-hydroxy-** Common Name: **Benzoic acid, 2-hydroxy-** Units: **ng/m3** Sampling interval: **Grab**
 CAS ID: **C69-72-7** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **199**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.006**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **3**
 Minimum: **0.006**
 25th Percentile: **0.006**
 Median: **2.978**
 Mean: **2.978**
 75th Percentile: **5.95**
 Maximum: **5.95**
 Std Dev.: **4.203**

NARSTO Flags

Flag Symbol Count

M1:		3
V5:	▲	1
V7:	★	1

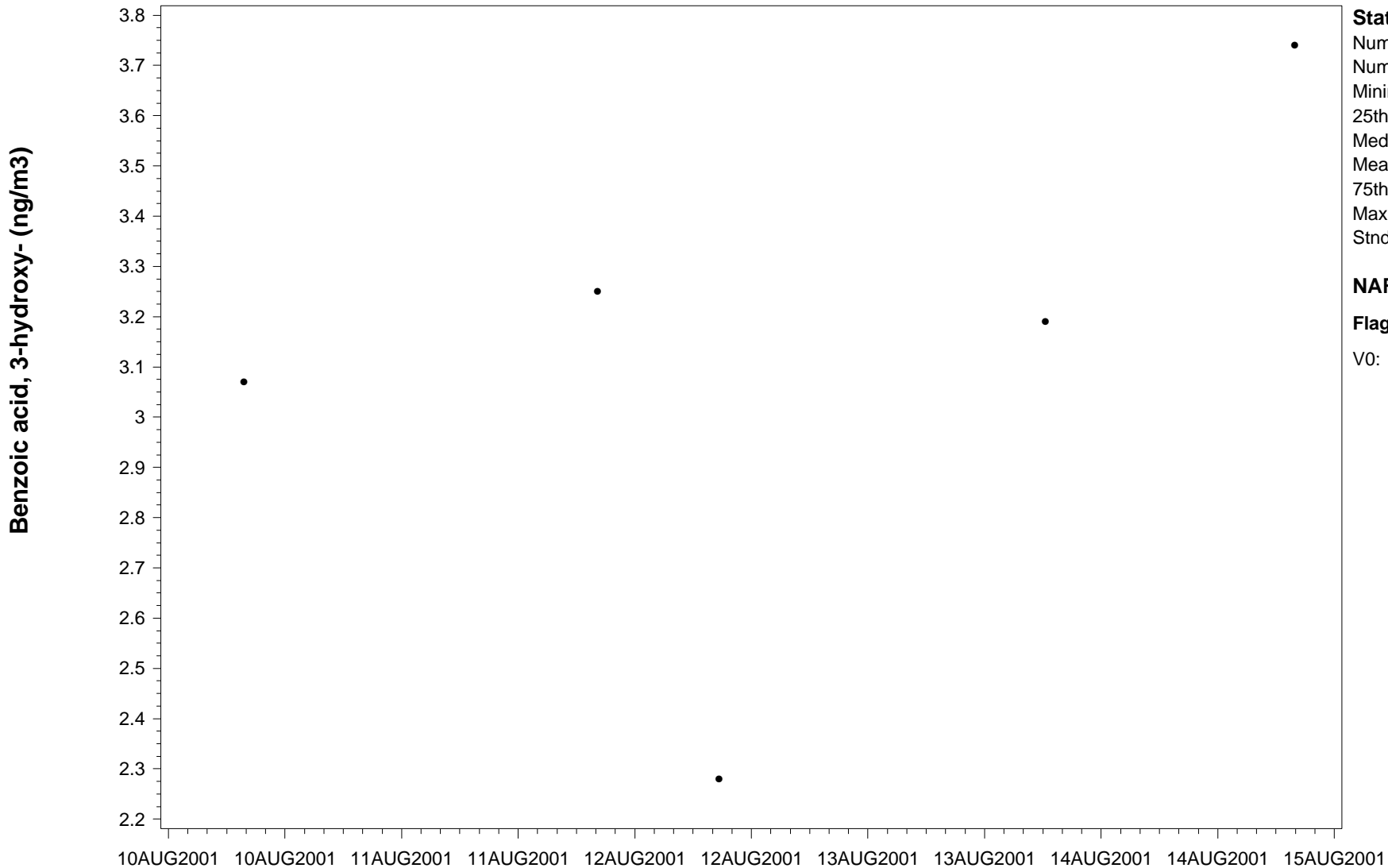
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Benzoic acid, 3-hydroxy-** Common Name: **Benzoic acid, 3-hydroxy-** Units: **ng/m3** Sampling interval: **Grab**
 CAS ID: **C99-06-9** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **199**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.007**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **2.28**
 25th Percentile: **3.07**
 Median: **3.19**
 Mean: **3.106**
 75th Percentile: **3.25**
 Maximum: **3.74**
 Stnd Dev.: **0.528**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

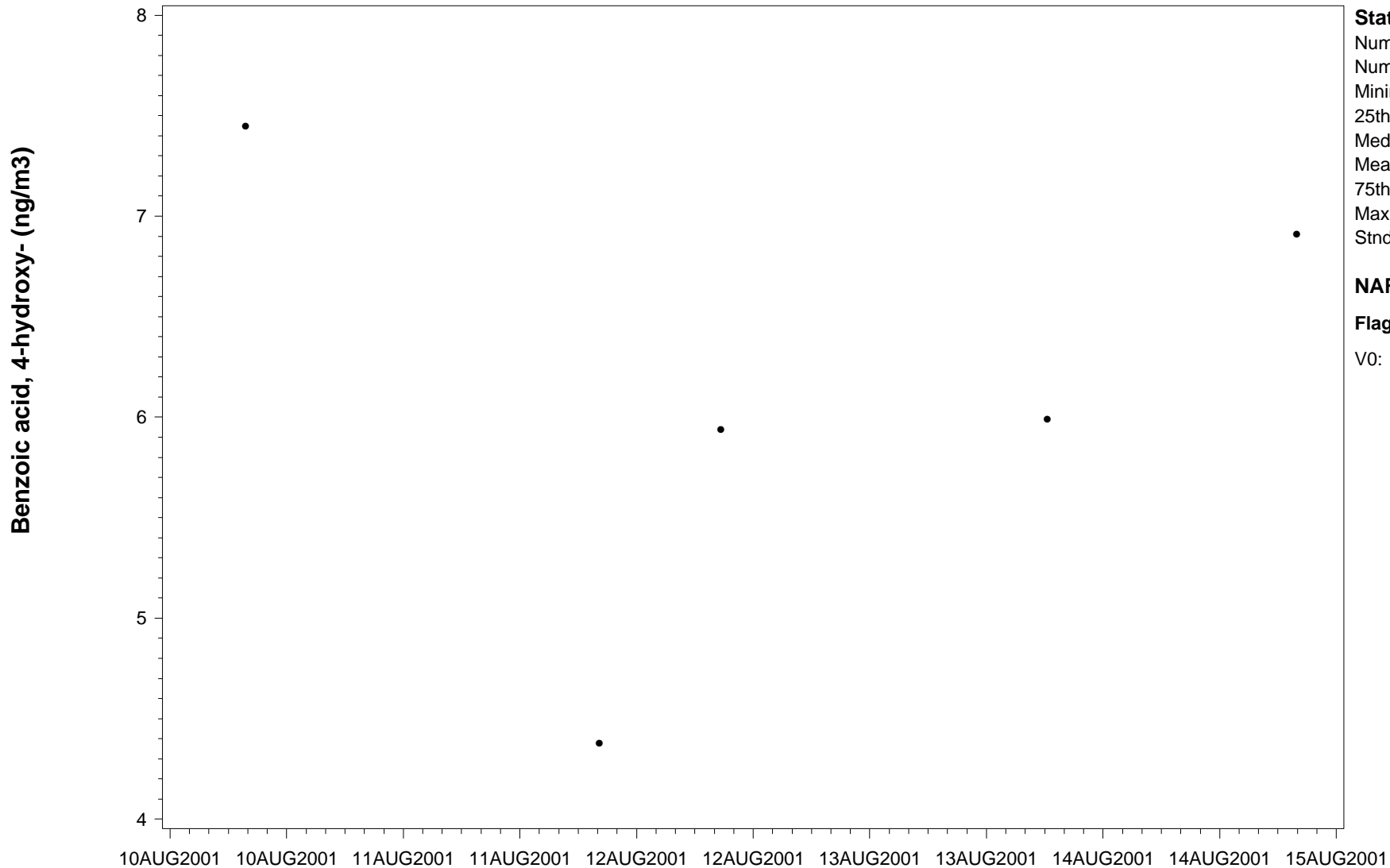
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Benzoic acid, 4-hydroxy-** Common Name: **Benzoic acid, 4-hydroxy-** Units: **ng/m3** Sampling interval: **Grab**
 CAS ID: **C99-96-7** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **280**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.013**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **4.38**
 25th Percentile: **5.94**
 Median: **5.99**
 Mean: **6.134**
 75th Percentile: **6.91**
 Maximum: **7.45**
 Stnd Dev.: **1.169**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

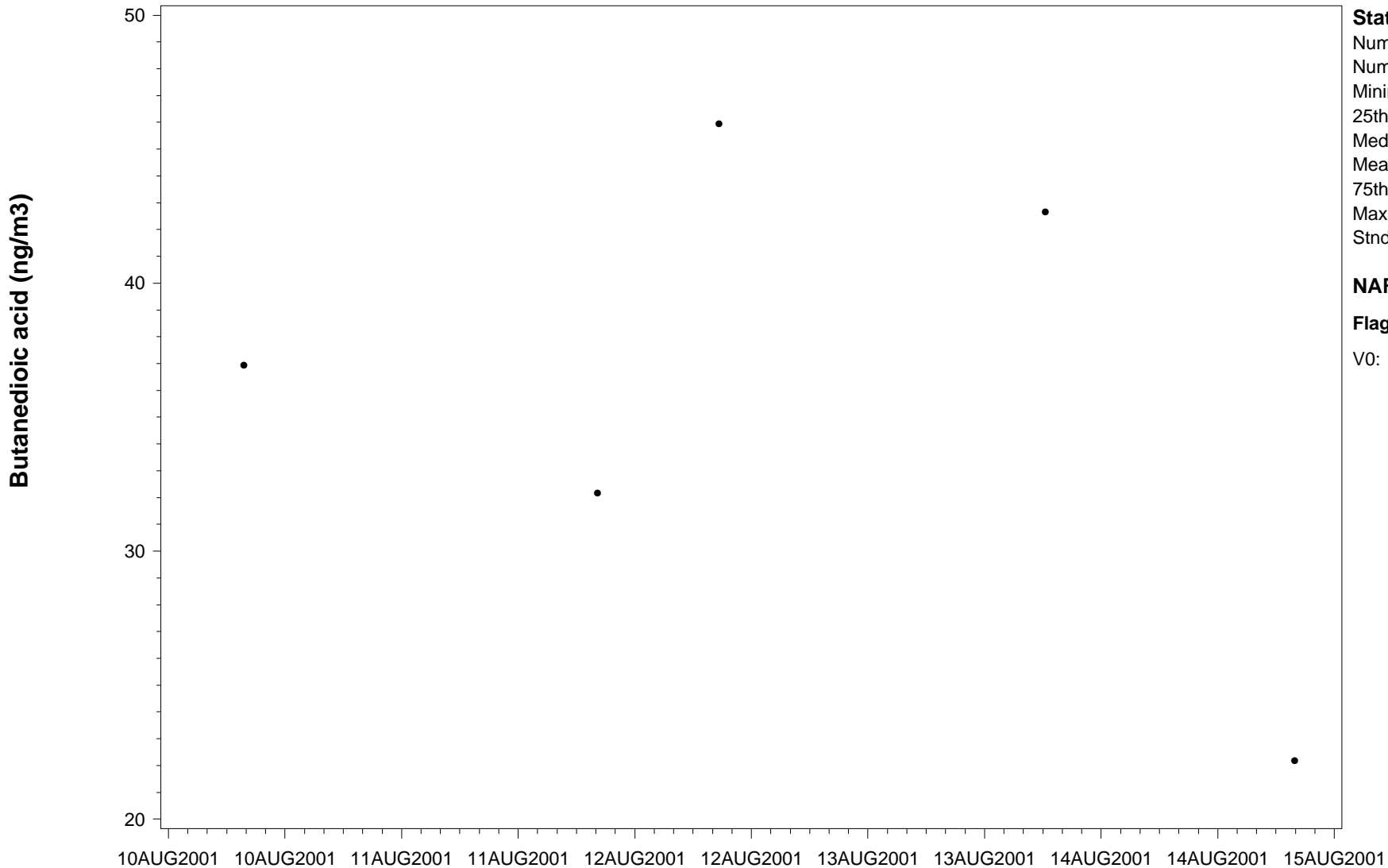
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Butanedioic acid** Common Name: **Succinic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C110-15-6**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.054**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **22.177**
 25th Percentile: **32.168**
 Median: **36.943**
 Mean: **35.980**
 75th Percentile: **42.658**
 Maximum: **45.955**
 Stnd Dev.: **9.355**

NARSTO Flags
Flag Symbol Count
 V0: ● 5

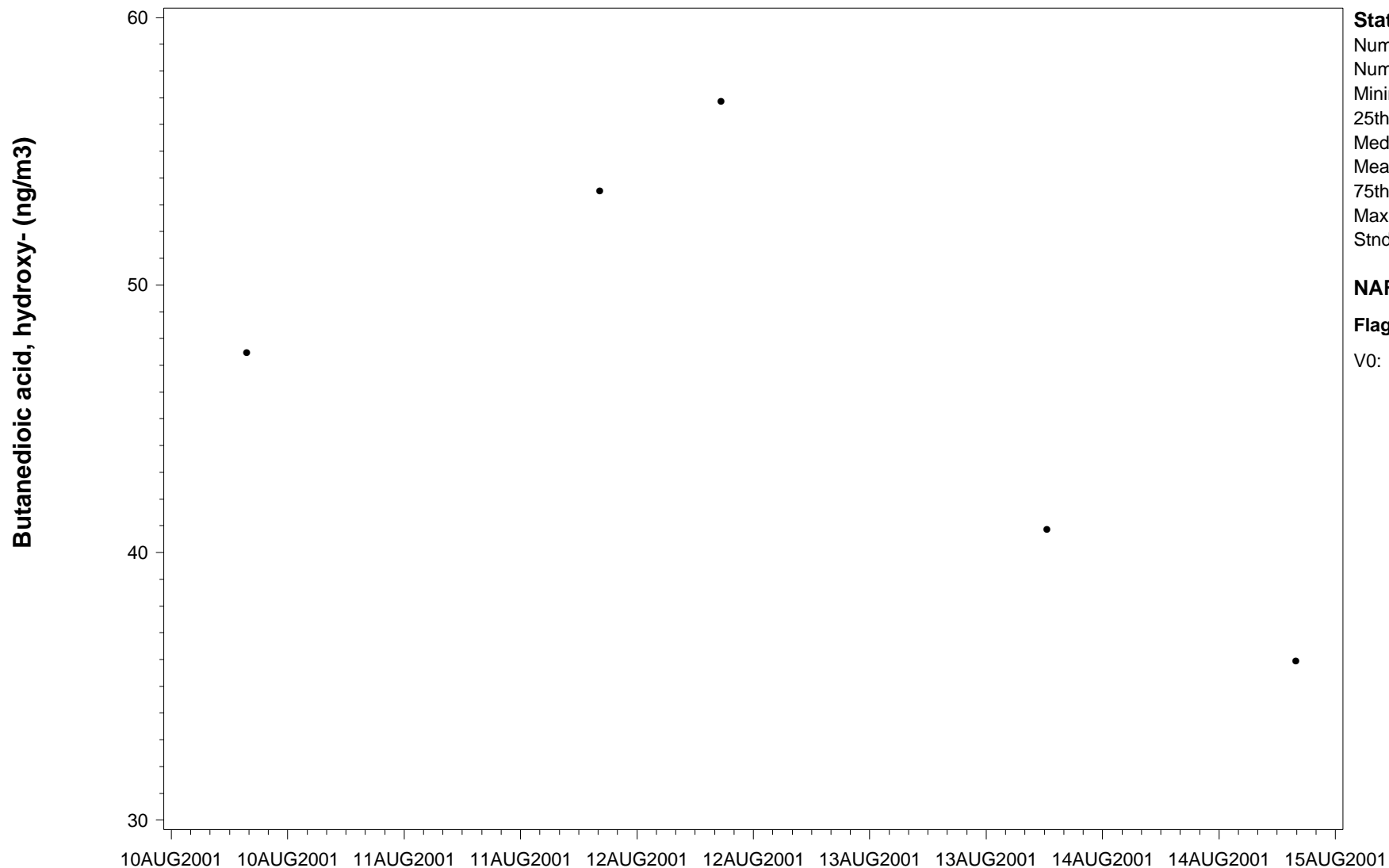
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Butanedioic acid, hydroxy-** Common Name: **Malic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C6915-15-7**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.057**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **35.933**
 25th Percentile: **40.858**
 Median: **47.477**
 Mean: **46.929**
 75th Percentile: **53.52**
 Maximum: **56.855**
 Stnd Dev.: **8.661**

NARSTO Flags

Flag Symbol Count

V0: ● 5

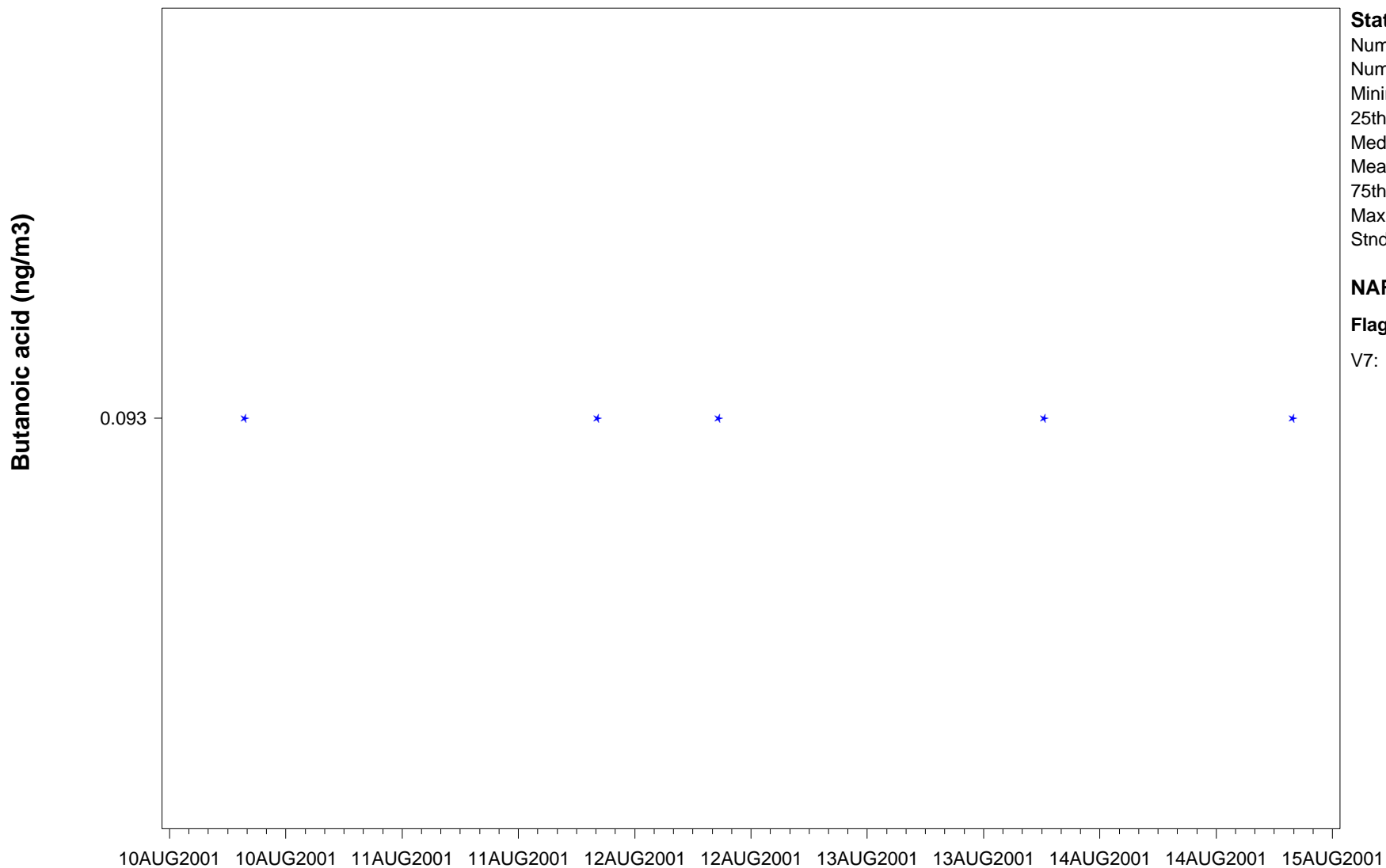
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Butanoic acid** Common Name: **Butanoic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C107-92-6**
Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.093**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
Number of missing: **0**
Minimum: **0.093**
25th Percentile: **0.093**
Median: **0.093**
Mean: **0.093**
75th Percentile: **0.093**
Maximum: **0.093**
Std Dev.: **0.000**

NARSTO Flags

Flag Symbol Count

V7: * 5

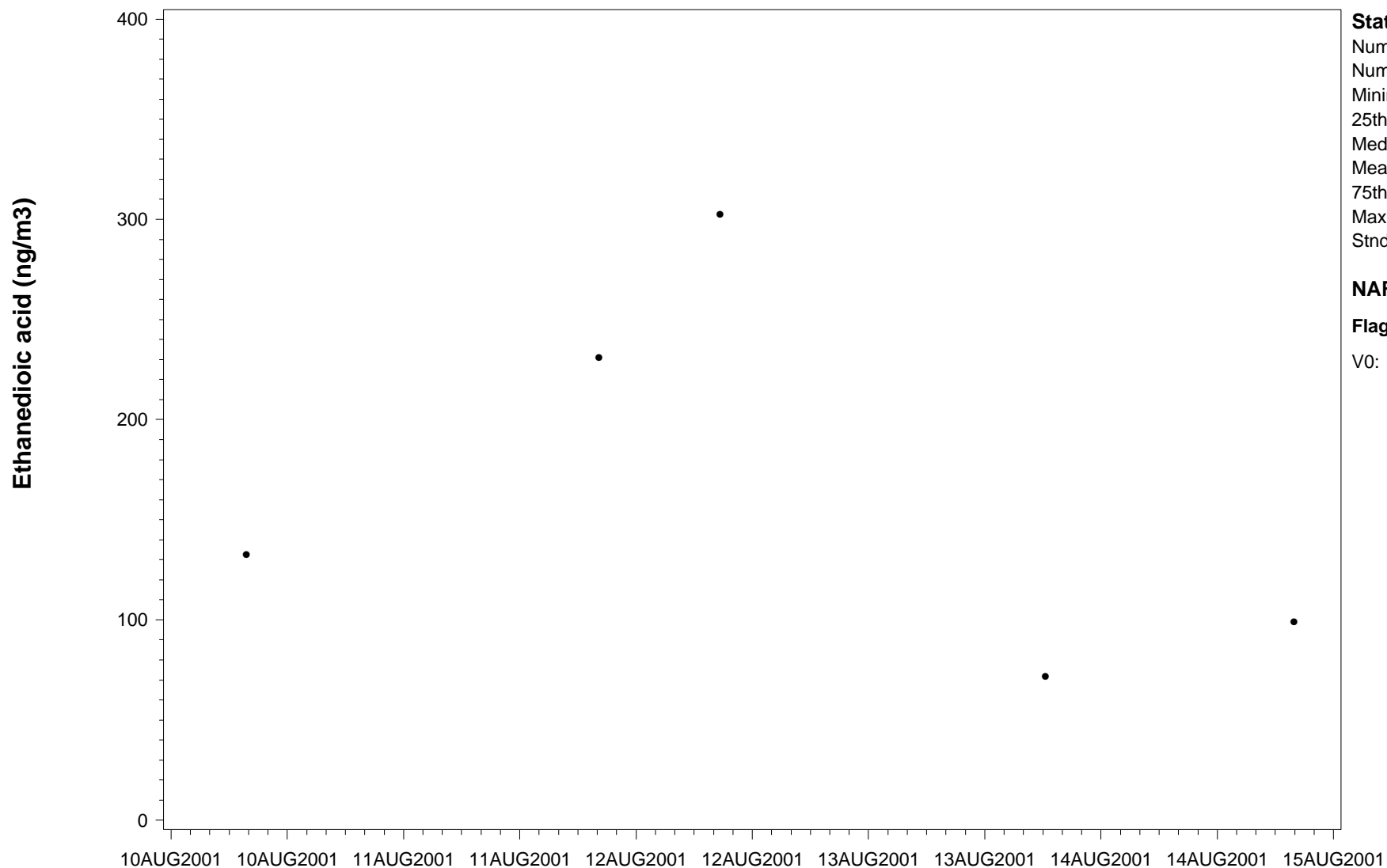
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Ethanedioic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C144-62-7** Observation type: **Particles**
Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.137**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
Number of missing: **0**
Minimum: **71.901**
25th Percentile: **99.087**
Median: **132.542**
Mean: **167.444**
75th Percentile: **231.084**
Maximum: **302.605**
Std Dev.: **96.615**

NARSTO Flags

Flag Symbol Count

V0: ● 5

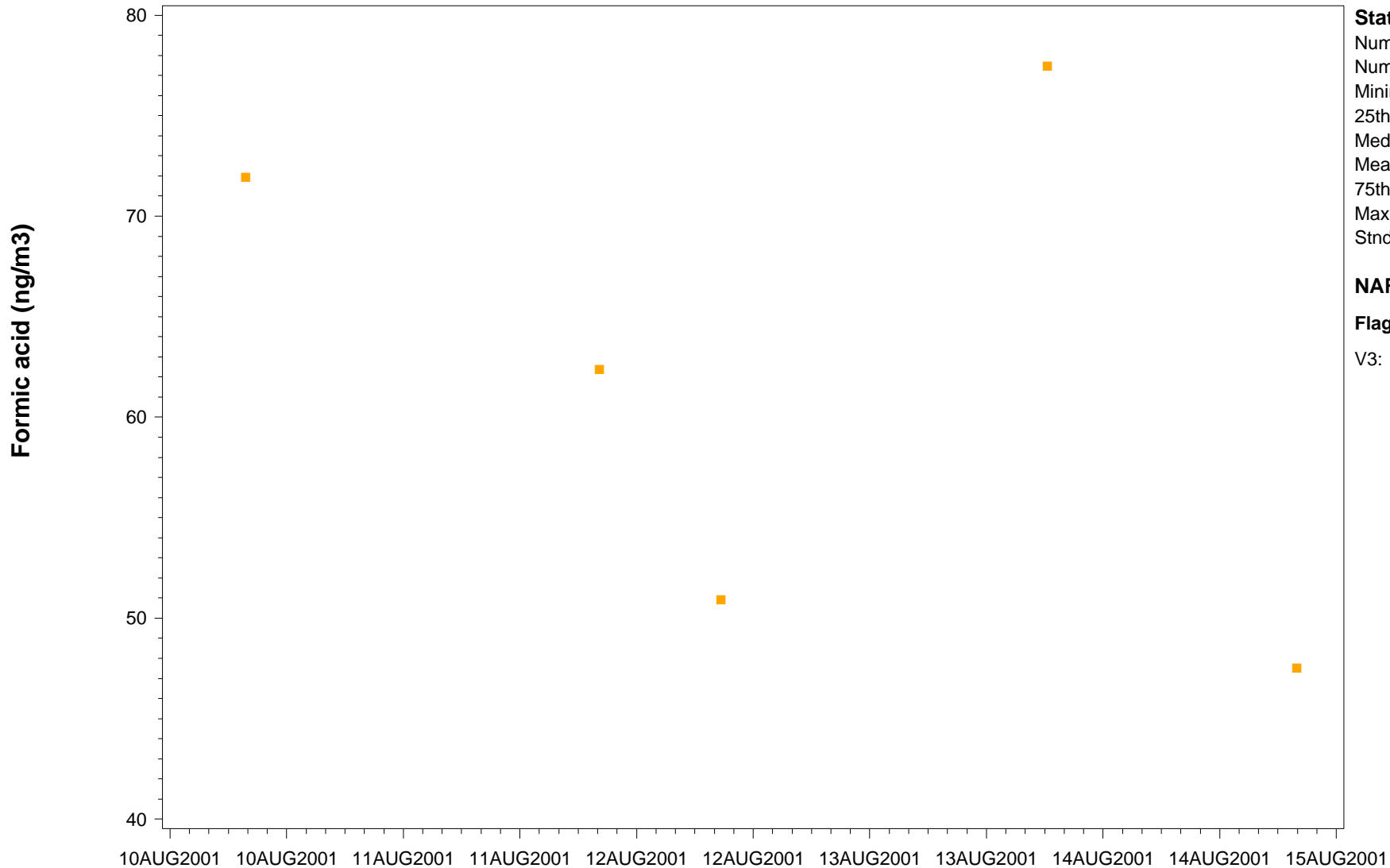
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Formic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C64-18-6** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.030**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **47.53**
 25th Percentile: **50.928**
 Median: **62.387**
 Mean: **62.053**
 75th Percentile: **71.959**
 Maximum: **77.459**
 Stnd Dev.: **12.945**

NARSTO Flags
Flag Symbol Count
 V3: ■ **5**

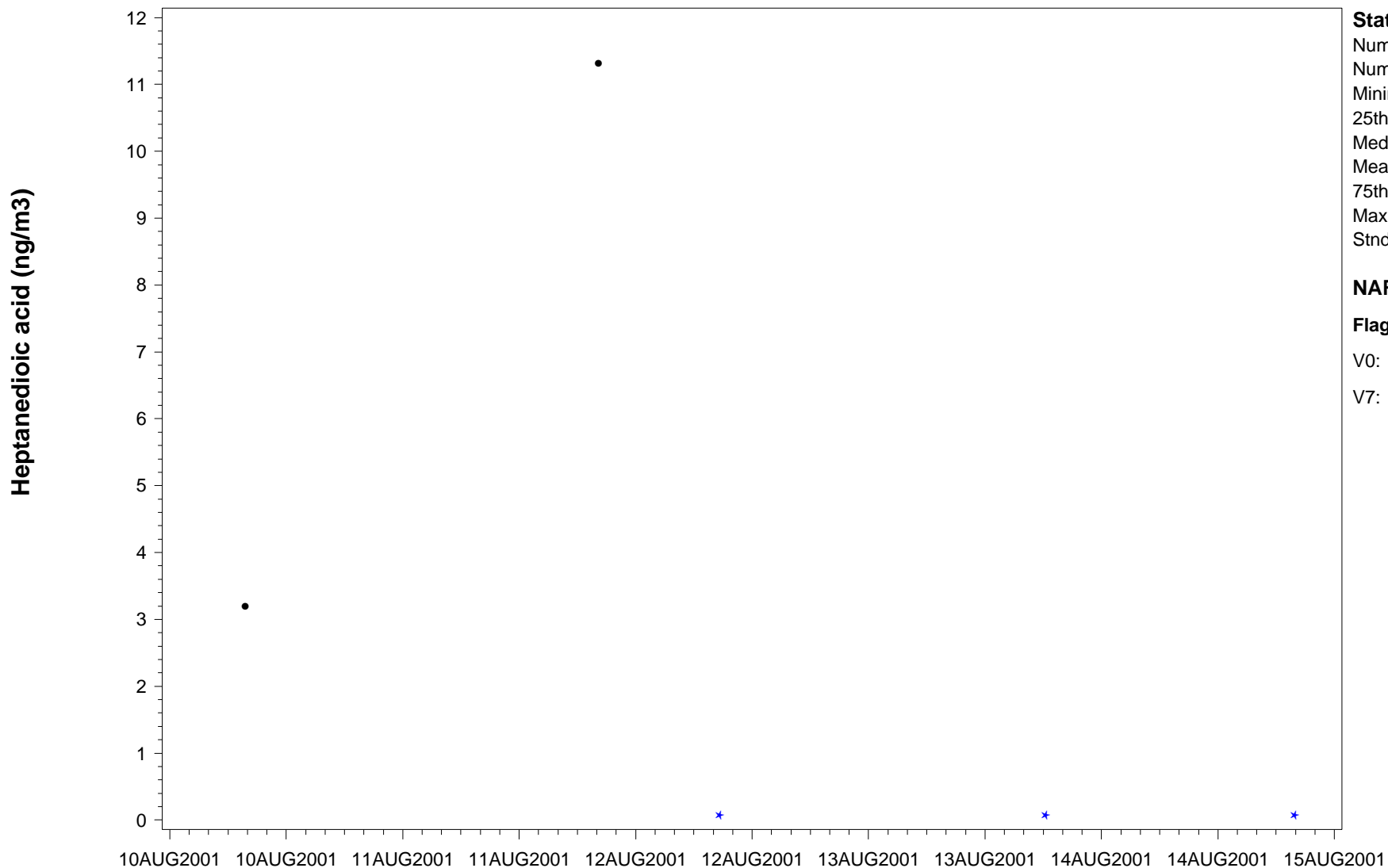
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Heptanedioic acid** Common Name: **Pimellic Acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C111-16-0**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.076**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **0.076**
 25th Percentile: **0.076**
 Median: **0.076**
 Mean: **2.947**
 75th Percentile: **3.196**
 Maximum: **11.311**
 Std Dev.: **4.867**

NARSTO Flags

Flag Symbol Count

V0: ● **2**
 V7: ★ **3**

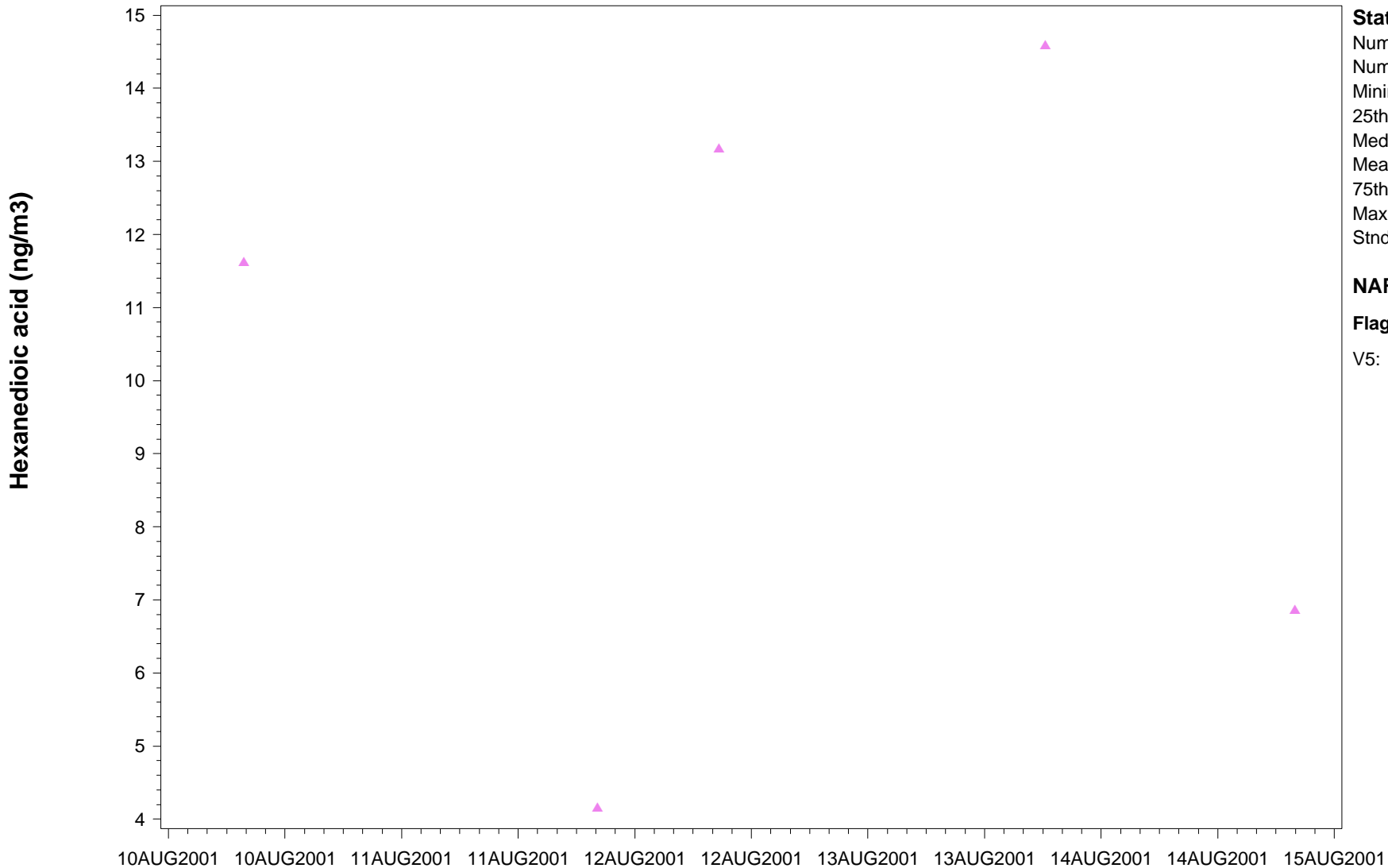
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Hexanedioic acid** Common Name: **Adipic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C124-04-9**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.079**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **4.171**
 25th Percentile: **6.874**
 Median: **11.633**
 Mean: **10.091**
 75th Percentile: **13.186**
 Maximum: **14.59**
 Stnd Dev.: **4.404**

NARSTO Flags
Flag Symbol Count
 V5: ▲ **5**

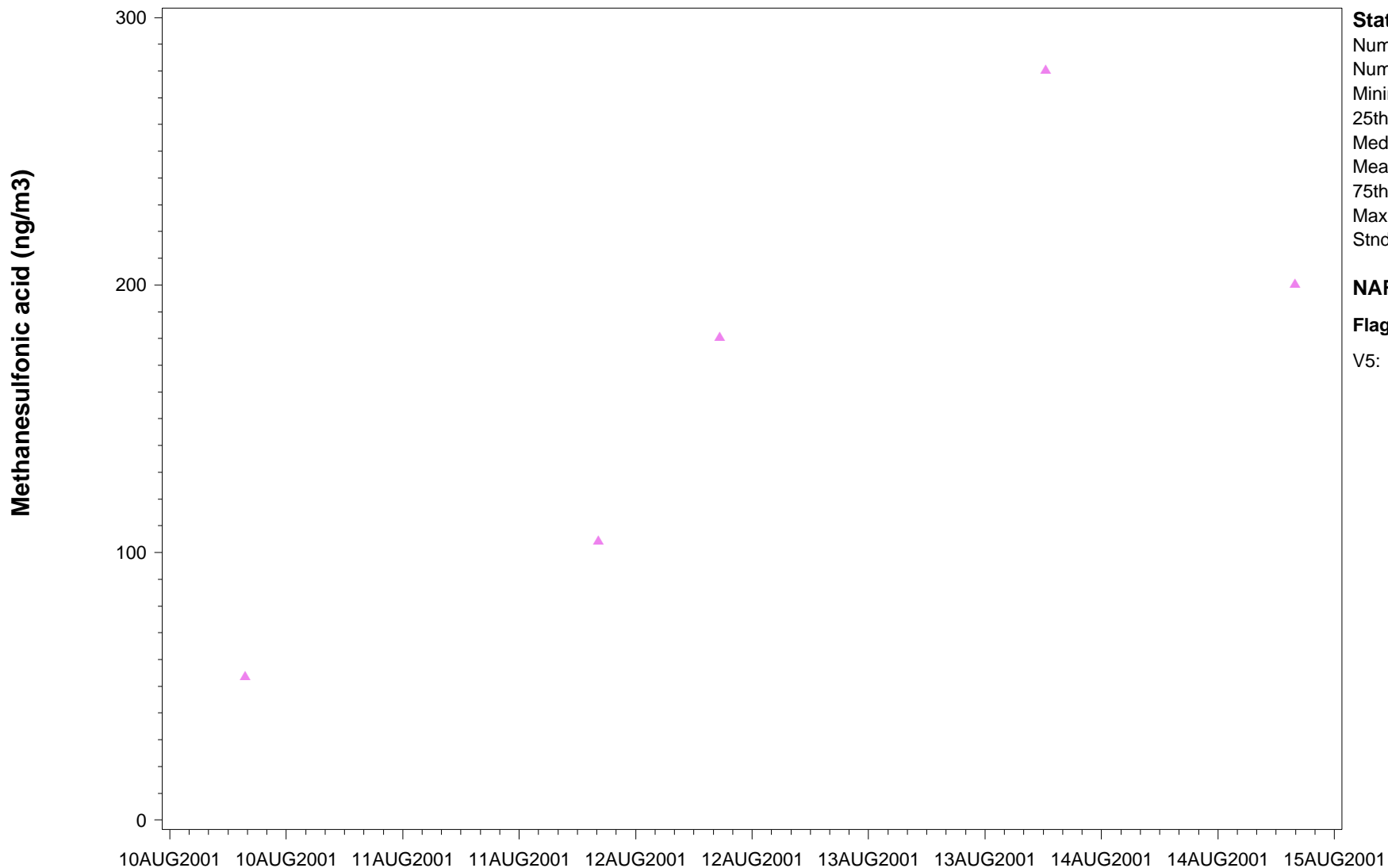
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Methanesulfonic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C75-75-2** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.108**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics
 Number of obs: **5**
 Number of missing: **0**
 Minimum: **53.871**
 25th Percentile: **104.515**
 Median: **180.752**
 Mean: **164.121**
 75th Percentile: **200.73**
 Maximum: **280.738**
 Stnd Dev.: **87.926**

NARSTO Flags
Flag Symbol Count
 V5: ▲ **5**

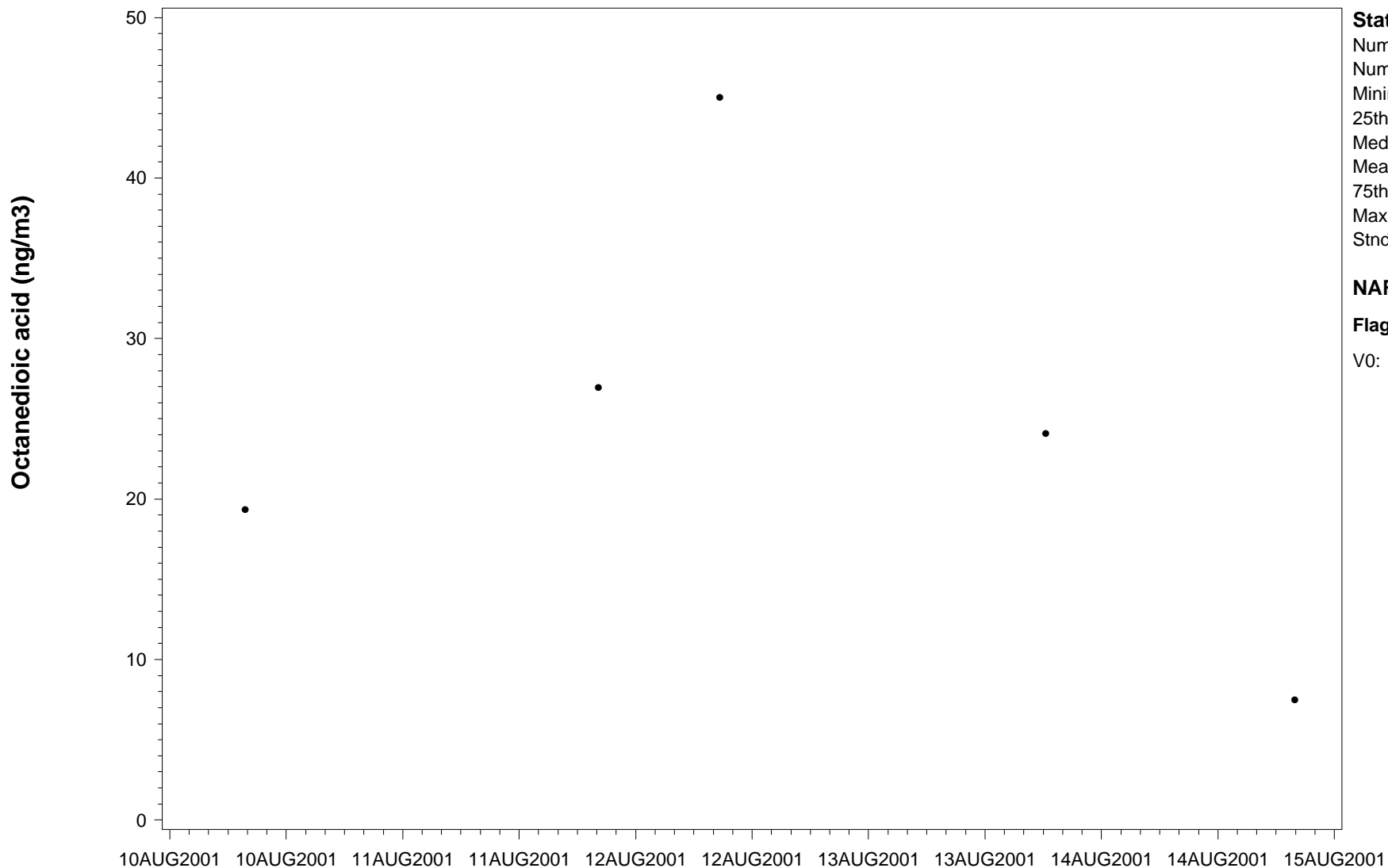
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Octanedioic acid** Common Name: **Suberic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C505-48-6**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.066**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **7.474**
 25th Percentile: **19.35**
 Median: **24.094**
 Mean: **24.579**
 75th Percentile: **26.961**
 Maximum: **45.015**
 Stnd Dev.: **13.633**

NARSTO Flags

Flag Symbol Count

V0: ● 5

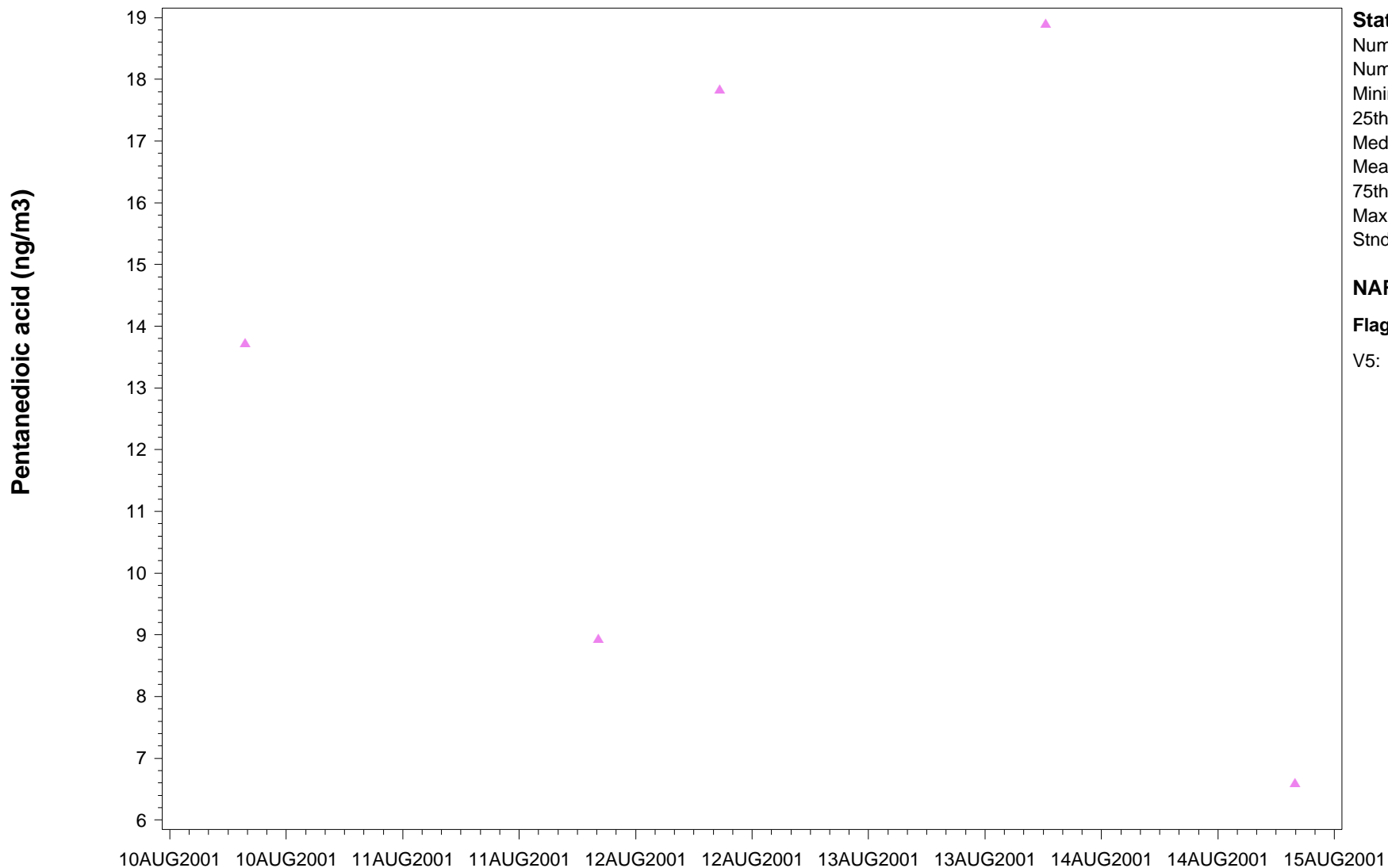
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Pentanedioic acid** Common Name: **Glutaric acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C110-94-1**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.080**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **6.612**
 25th Percentile: **8.944**
 Median: **13.736**
 Mean: **13.208**
 75th Percentile: **17.843**
 Maximum: **18.903**
 Stnd Dev.: **5.382**

NARSTO Flags

Flag Symbol Count

V5: ▲ **5**

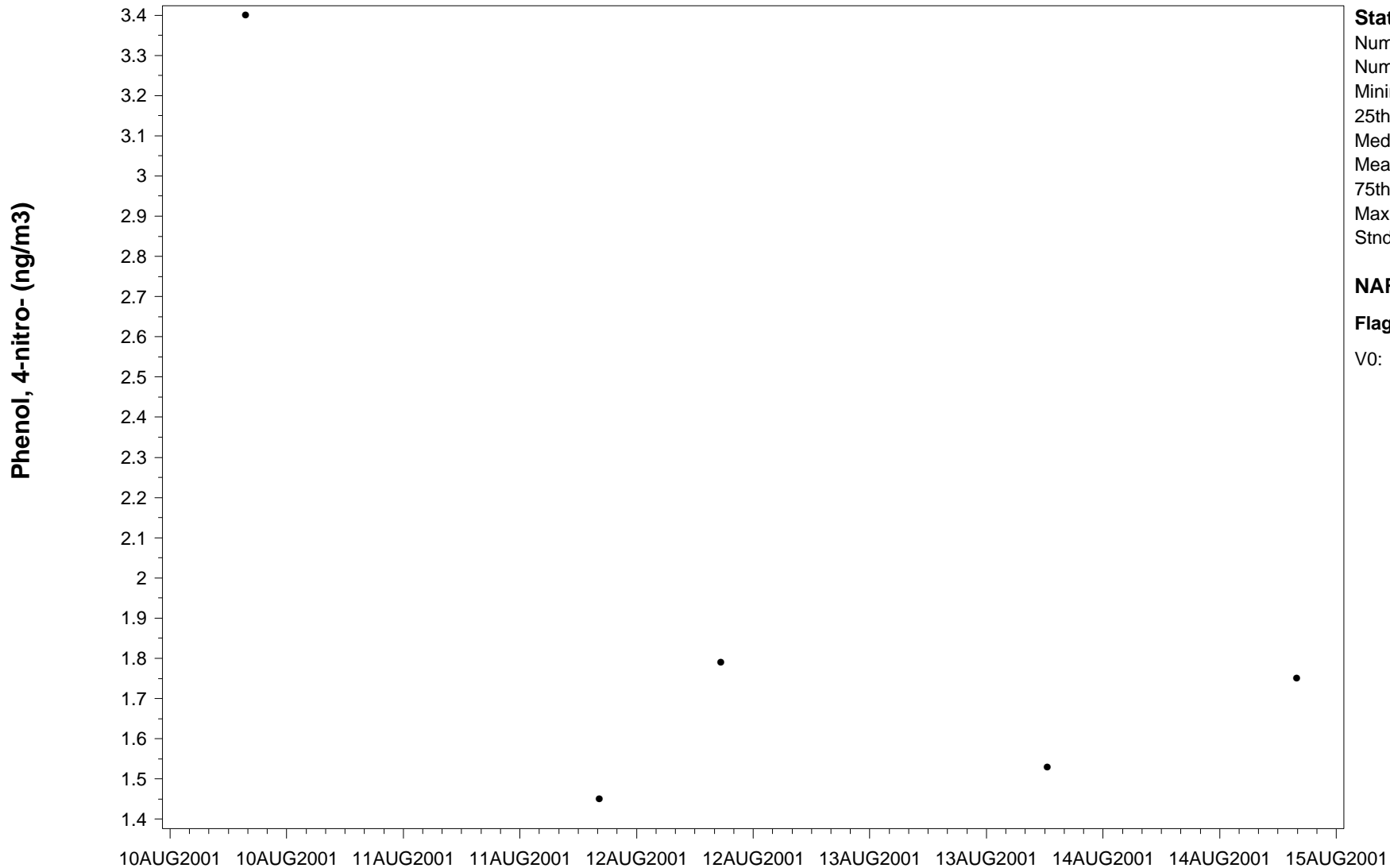
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Phenol, 4-nitro-** Common Name: **Phenol, 4-nitro-** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C100-02-7**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **405**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.015**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **1.45**
 25th Percentile: **1.53**
 Median: **1.75**
 Mean: **1.984**
 75th Percentile: **1.79**
 Maximum: **3.4**
 Stnd Dev.: **0.804**

NARSTO Flags

Flag Symbol Count
 V0: ● **5**

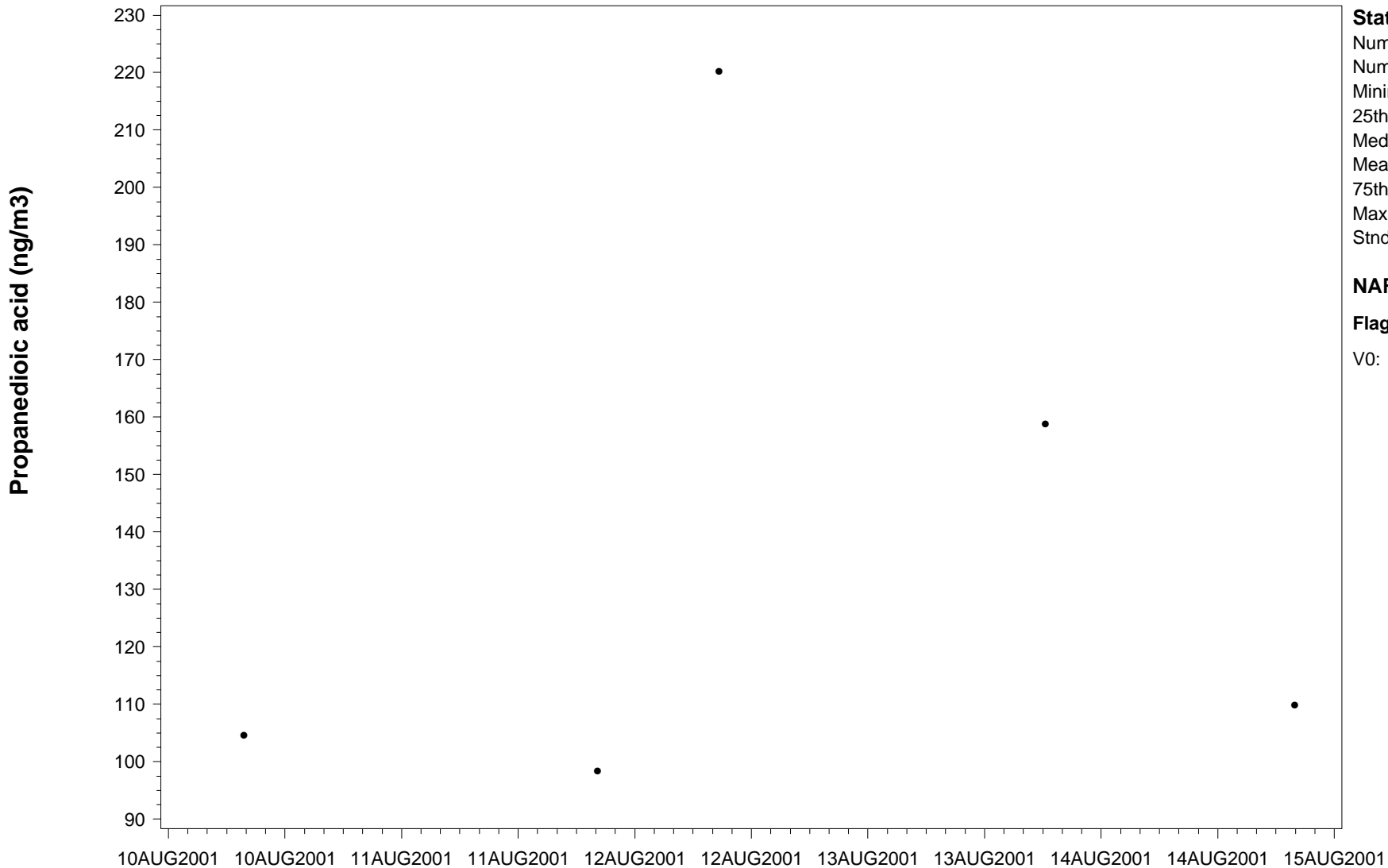
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Propanedioic acid** Common Name: **Malonic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C141-82-2**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.083**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **98.397**
 25th Percentile: **104.56**
 Median: **109.816**
 Mean: **138.331**
 75th Percentile: **158.715**
 Maximum: **220.169**
 Stnd Dev.: **51.627**

NARSTO Flags

Flag Symbol Count
 V0: ● **5**

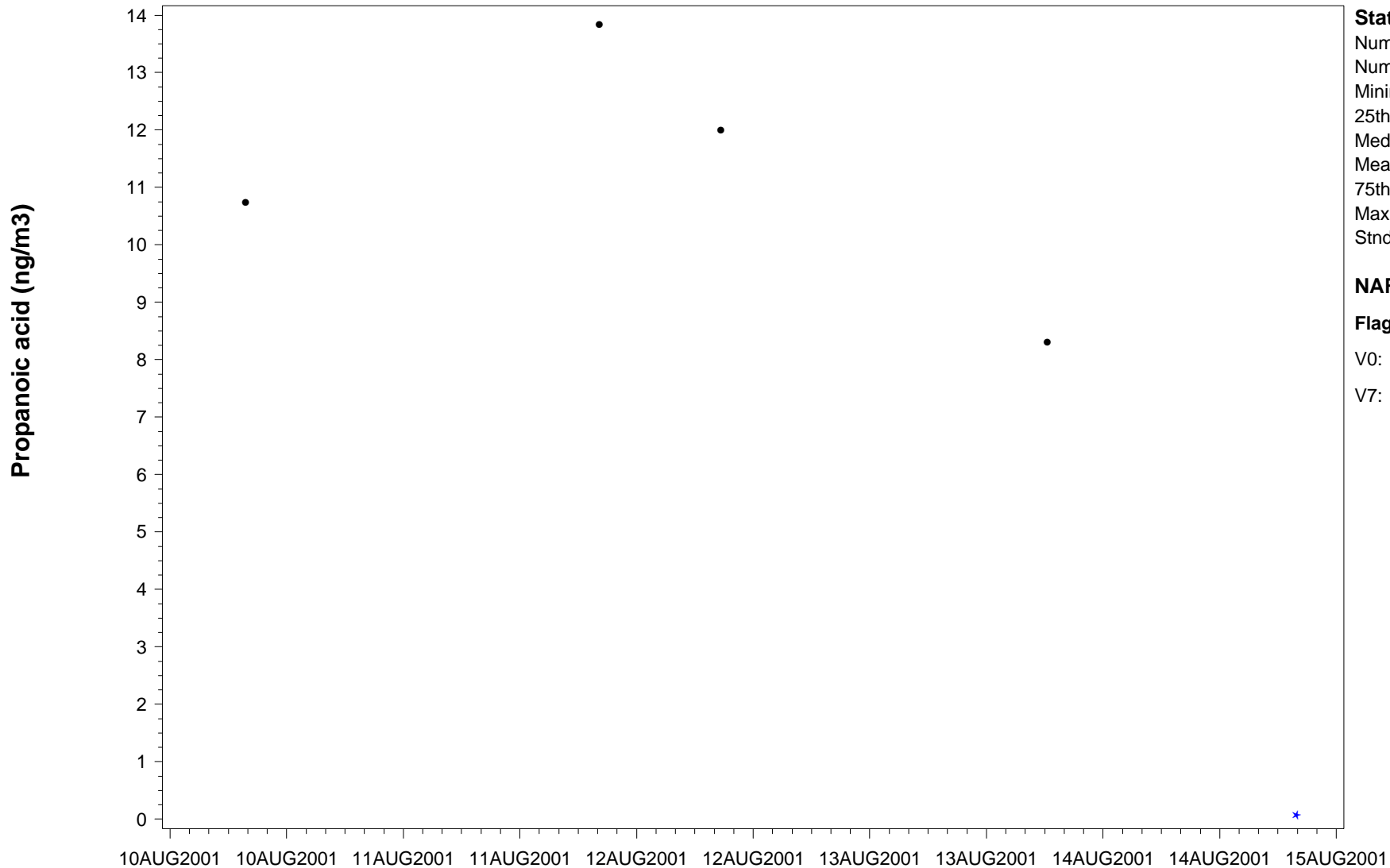
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Propanoic acid** Common Name: **Propionic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C79-09-4**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.070**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **0.07**
 25th Percentile: **8.305**
 Median: **10.743**
 Mean: **8.989**
 75th Percentile: **11.996**
 Maximum: **13.831**
 Std Dev.: **5.375**

NARSTO Flags

Flag Symbol Count

V0: ● **4**
 V7: ★ **1**

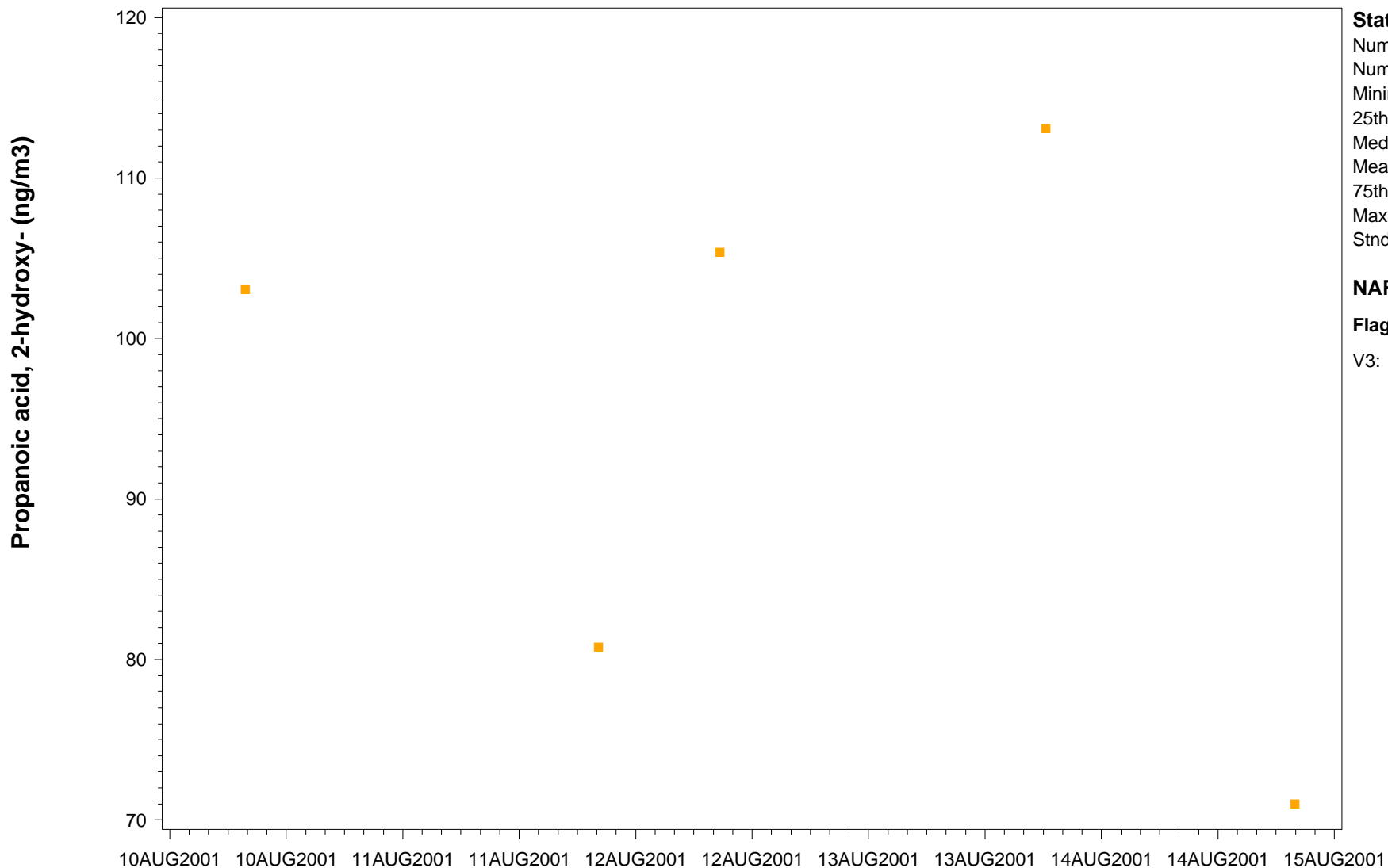
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Propanoic acid, 2-hydroxy-** Common Name: **Lactic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C50-21-5**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.113**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **70.982**
 25th Percentile: **80.745**
 Median: **103.084**
 Mean: **94.650**
 75th Percentile: **105.335**
 Maximum: **113.103**
 Stnd Dev.: **17.884**

NARSTO Flags

Flag Symbol Count

V3: ■ **5**

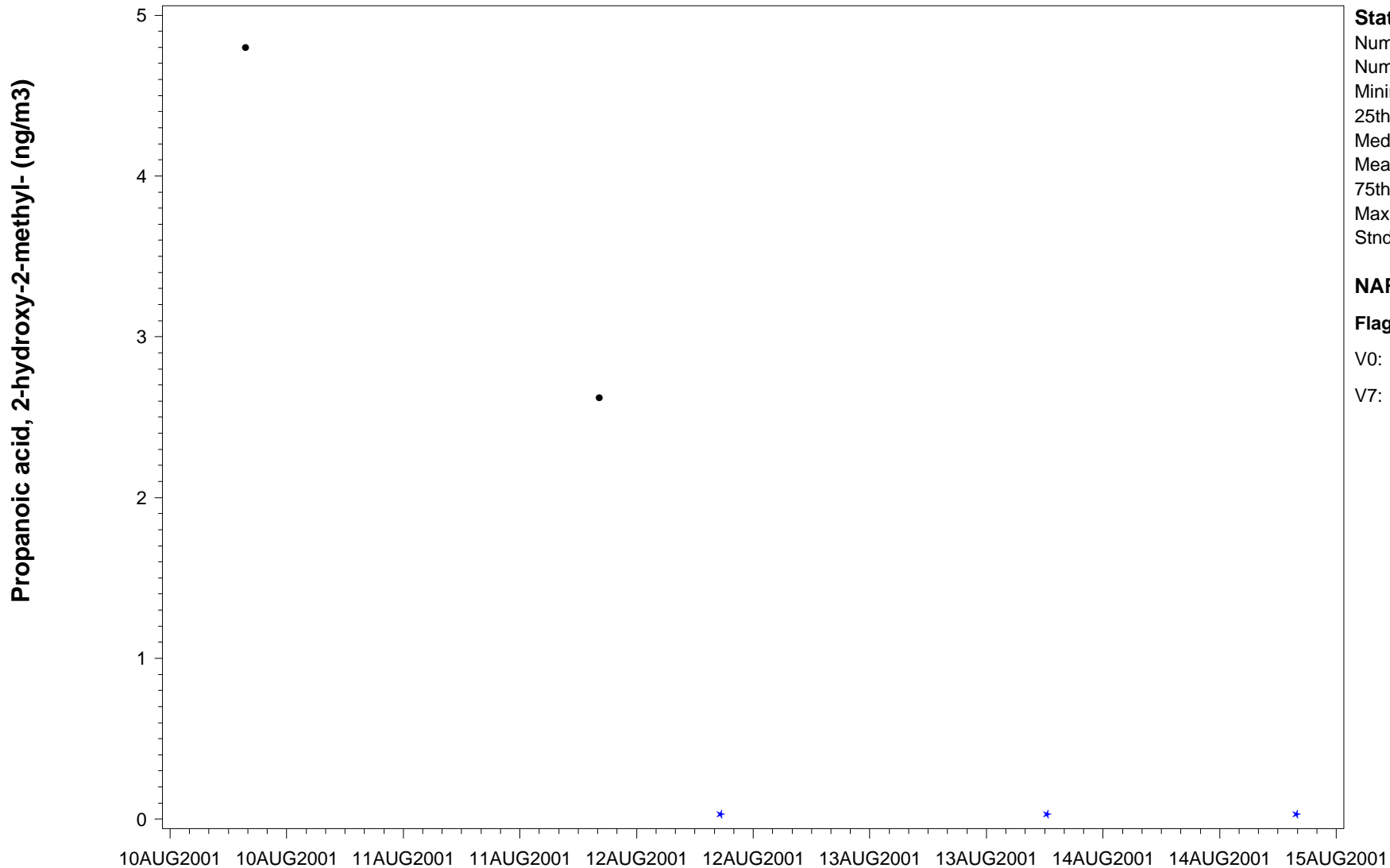
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Propanoic acid, 2-hydroxy-2-methyl-** Common Name: **2-Hydroxyisobutyric acid** Units: **ng/m3** Sampling interval: **Grab**
 CAS ID: **C594-61-6** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.032**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **0.032**
 25th Percentile: **0.032**
 Median: **0.032**
 Mean: **1.503**
 75th Percentile: **2.624**
 Maximum: **4.797**
 Std Dev.: **2.156**

NARSTO Flags

Flag Symbol Count

V0: ● **2**
 V7: ★ **3**

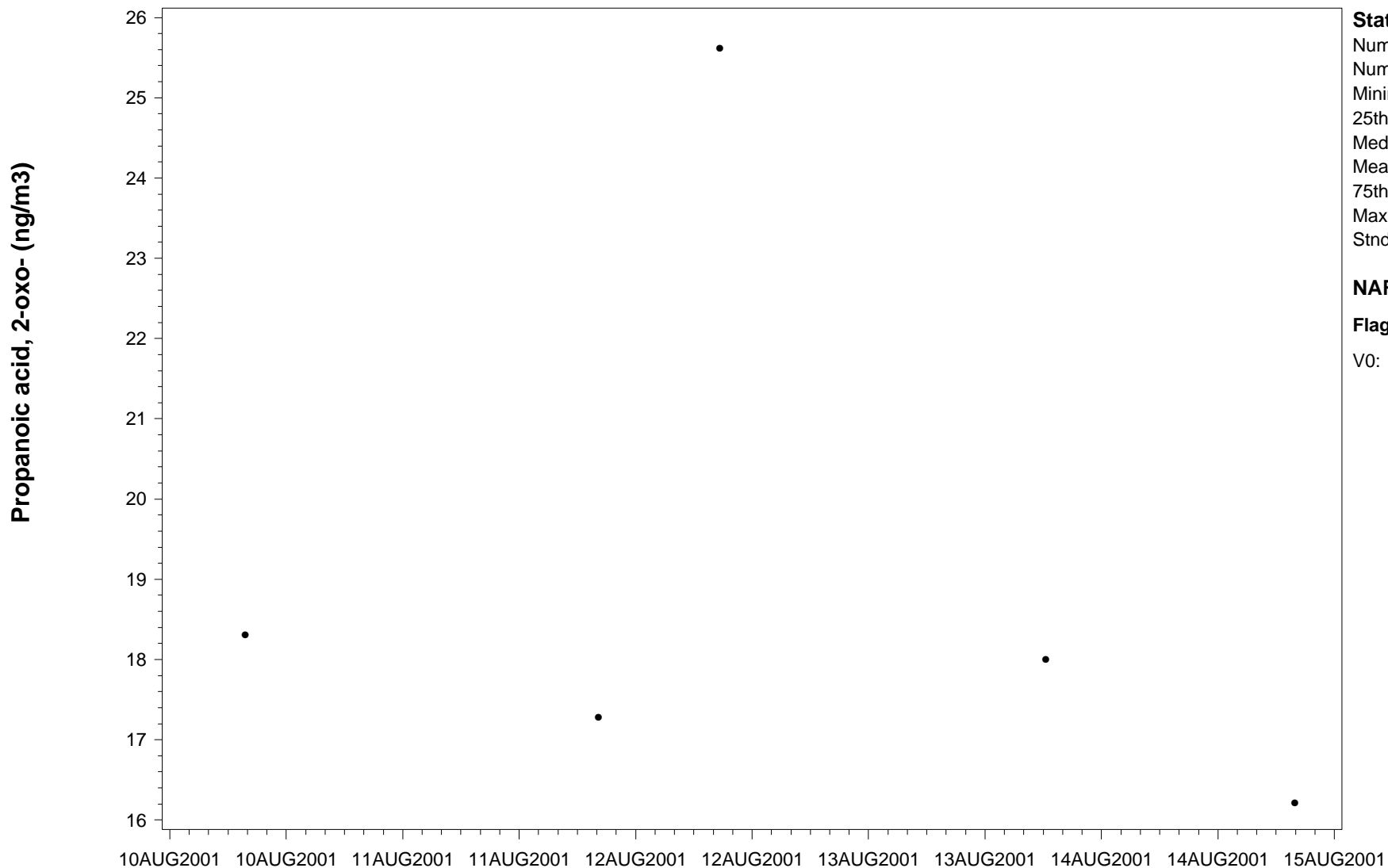
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **Propanoic acid, 2-oxo-** Common Name: **Pyruvic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C127-17-3**
 Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**
 Particle diameter--median (UM): **Undetermined** Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.131**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **16.216**
 25th Percentile: **17.276**
 Median: **18.006**
 Mean: **19.083**
 75th Percentile: **18.304**
 Maximum: **25.615**
 Stnd Dev.: **3.739**

NARSTO Flags

Flag Symbol Count

V0: ● 5

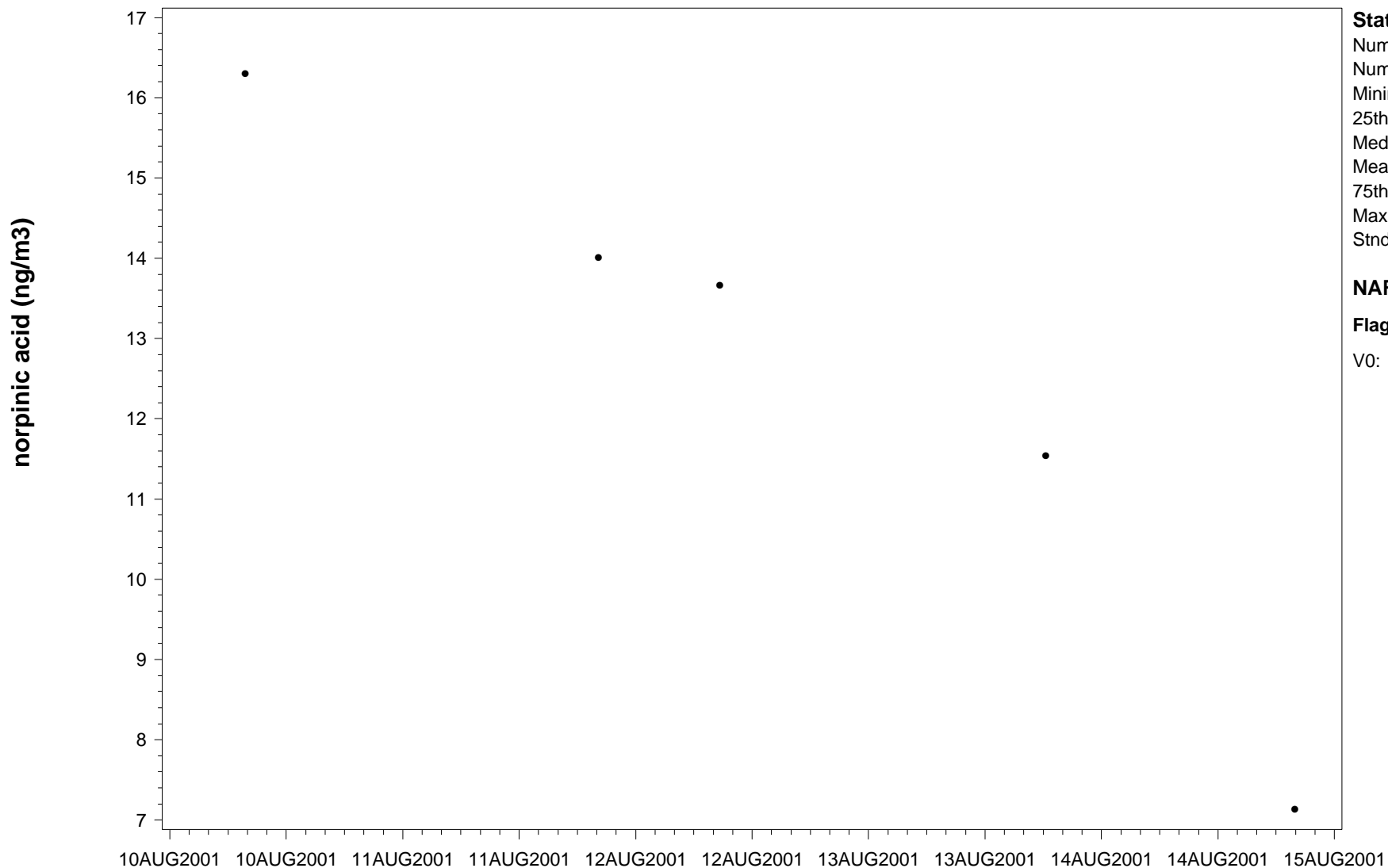
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **norpinic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C473-69-8** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.095**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **7.14**
 25th Percentile: **11.547**
 Median: **13.668**
 Mean: **12.533**
 75th Percentile: **14.012**
 Maximum: **16.3**
 Stnd Dev.: **3.454**

NARSTO Flags

Flag Symbol Count

V0: ● 5

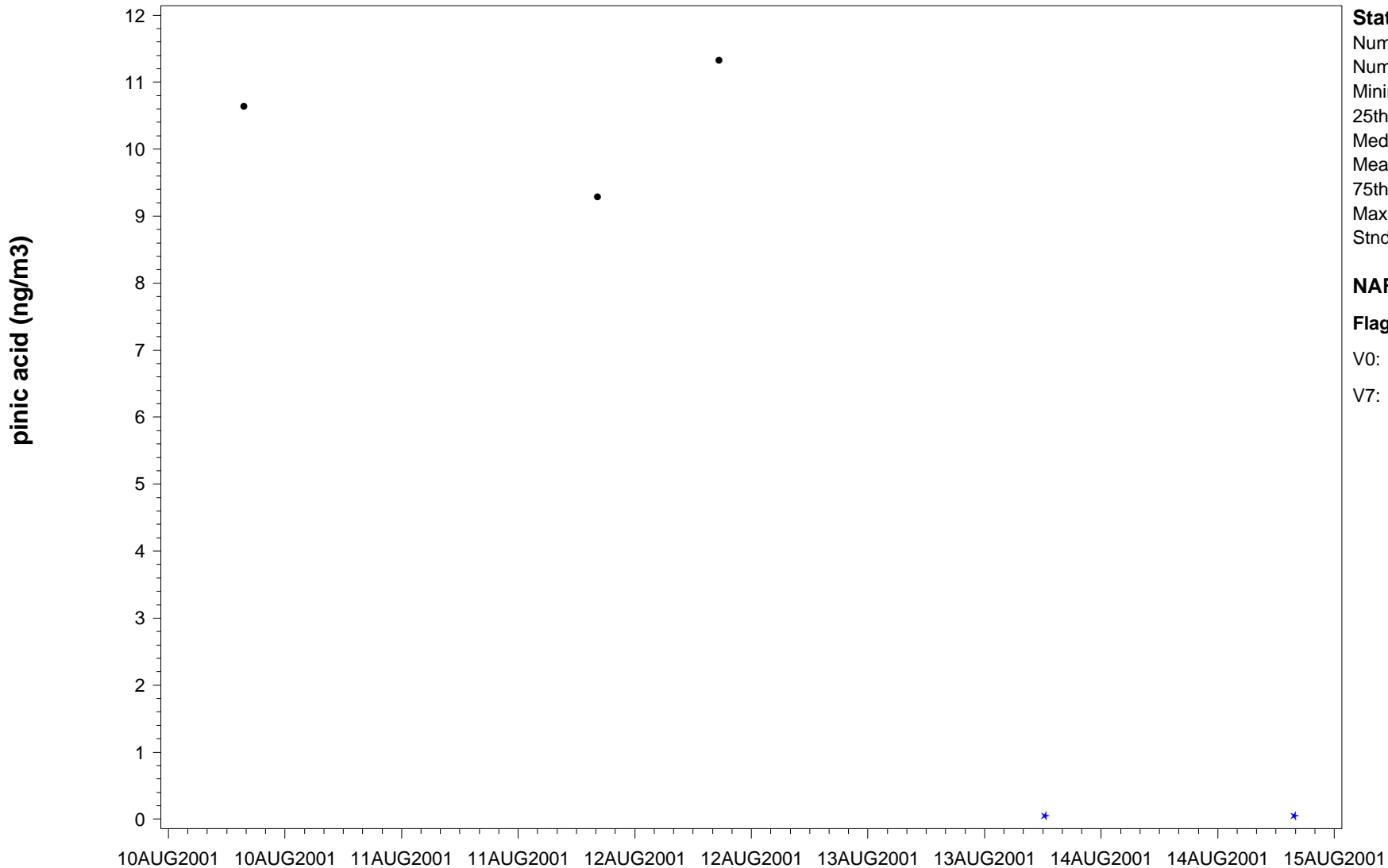
Time Zone: PDT

NATChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **pinic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C473-73-4** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.046**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **0**
 Minimum: **0.046**
 25th Percentile: **0.046**
 Median: **9.284**
 Mean: **6.267**
 75th Percentile: **10.634**
 Maximum: **11.327**
 Std Dev.: **5.727**

NARSTO Flags

Flag Symbol Count

V0: ● **3**
 V7: ★ **2**

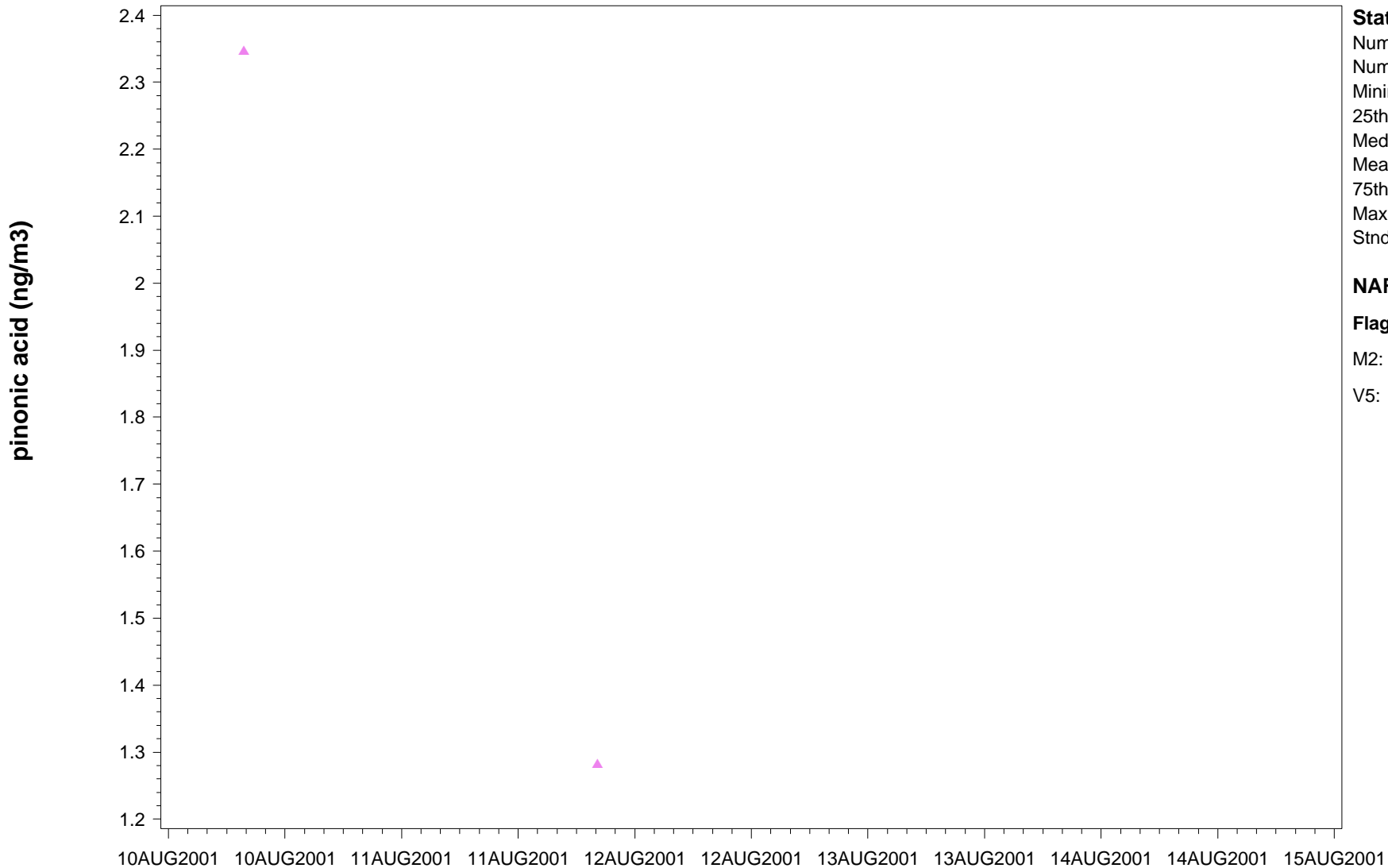
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCCSTN** Variable name: **pinonic acid** Units: **ng/m3** Sampling interval: **Grab** CAS ID: **C473-72-3** Observation type: **Particles**
 Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5** Particle diameter--median (UM): **Undetermined**
 Field sampling or measurement principle: **Impactor** Medium: **Quartz** Inlet type: **Impactor--direct**
 Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Organic extraction** Blank Correction: **Blank corrected**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **1.6** Wavelength (NM): **243**
 Instrument name and model number: **HIVOL TE-6070-BL with PM2.5 Impactor** Detection Limit: **0.045**

Site Name: **Cassiar Tunnel (North End), British Columbia** Latitude: **49.28389 deg.** Longitude: **-123.03194 deg.** Start Date: **2001-08-09** End Date: **2001-08-15**



Statistics

Number of obs: **5**
 Number of missing: **3**
 Minimum: **1.284**
 25th Percentile: **1.284**
 Median: **1.8155**
 Mean: **1.816**
 75th Percentile: **2.347**
 Maximum: **2.347**
 Std Dev.: **0.752**

NARSTO Flags

Flag Symbol Count

M2: **3**
 V5: **▲ 2**

Time Zone: PDT