

Figure 21. APD, 147 MHz - Background

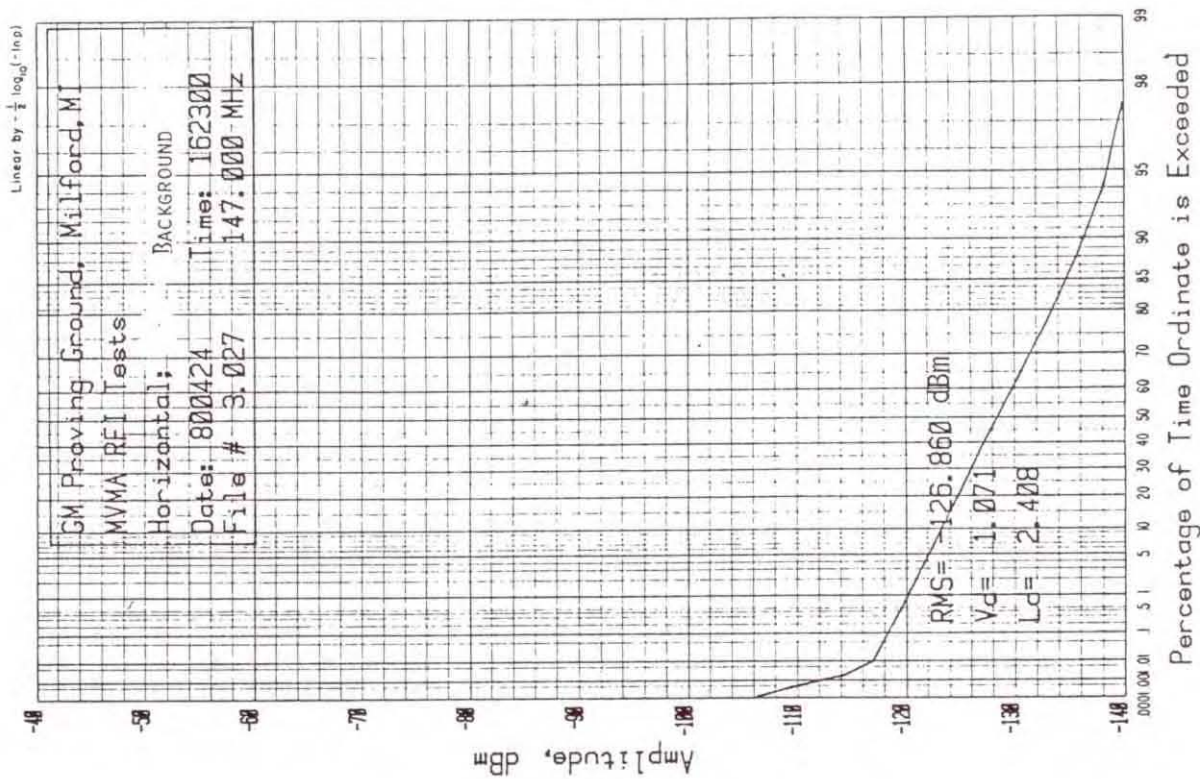


Figure 22. APD, 147 MHz - Background

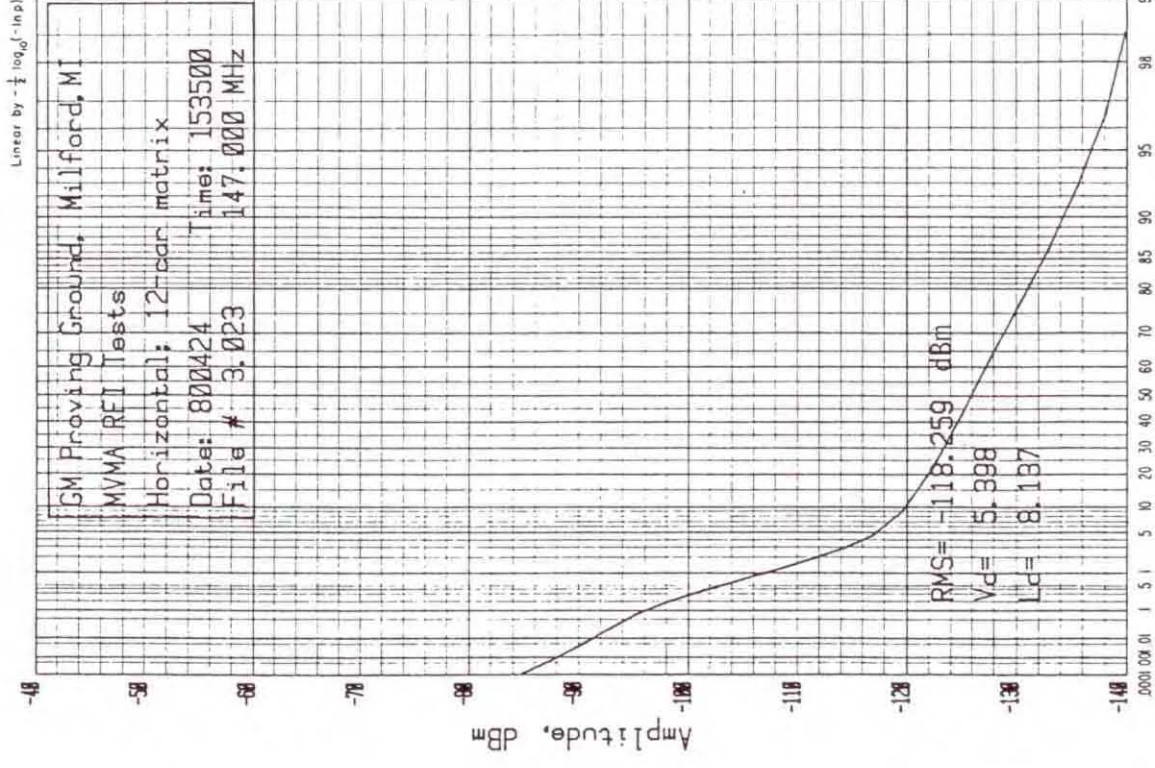


Figure 24. APD, 147 MHz - 12 Car Matrix

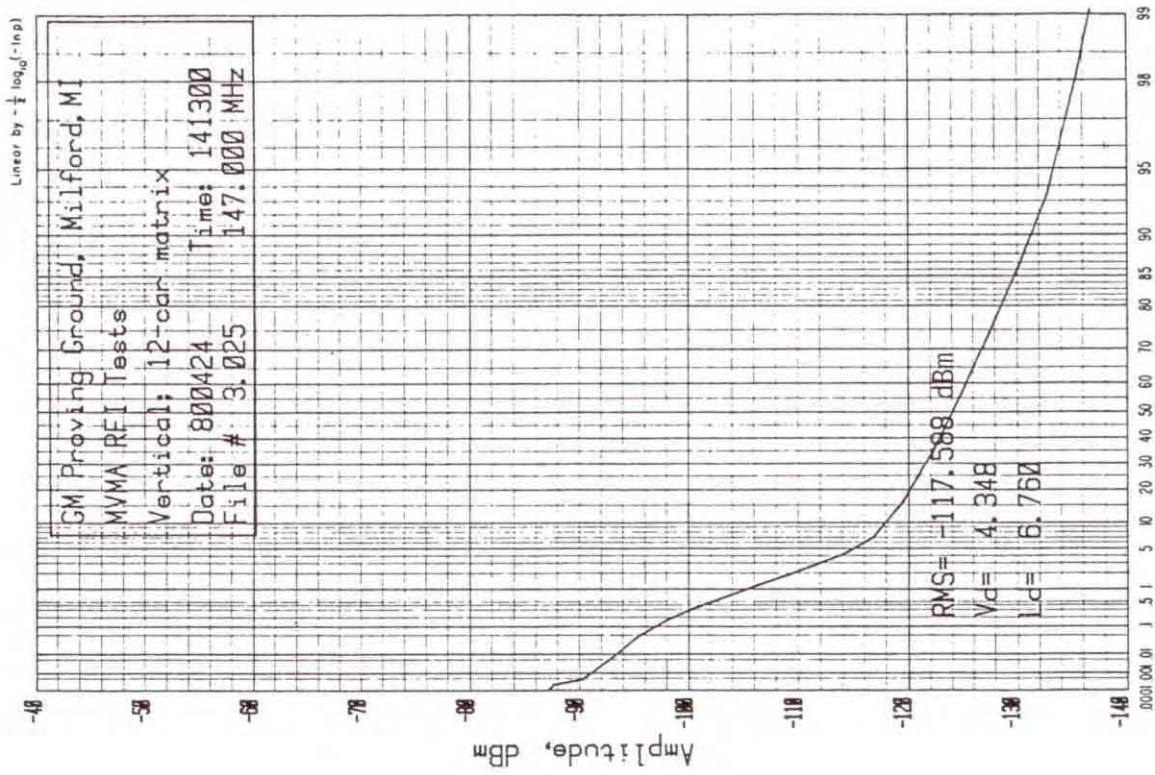


Figure 23. APD, 147 MHz - 12 Car Matrix

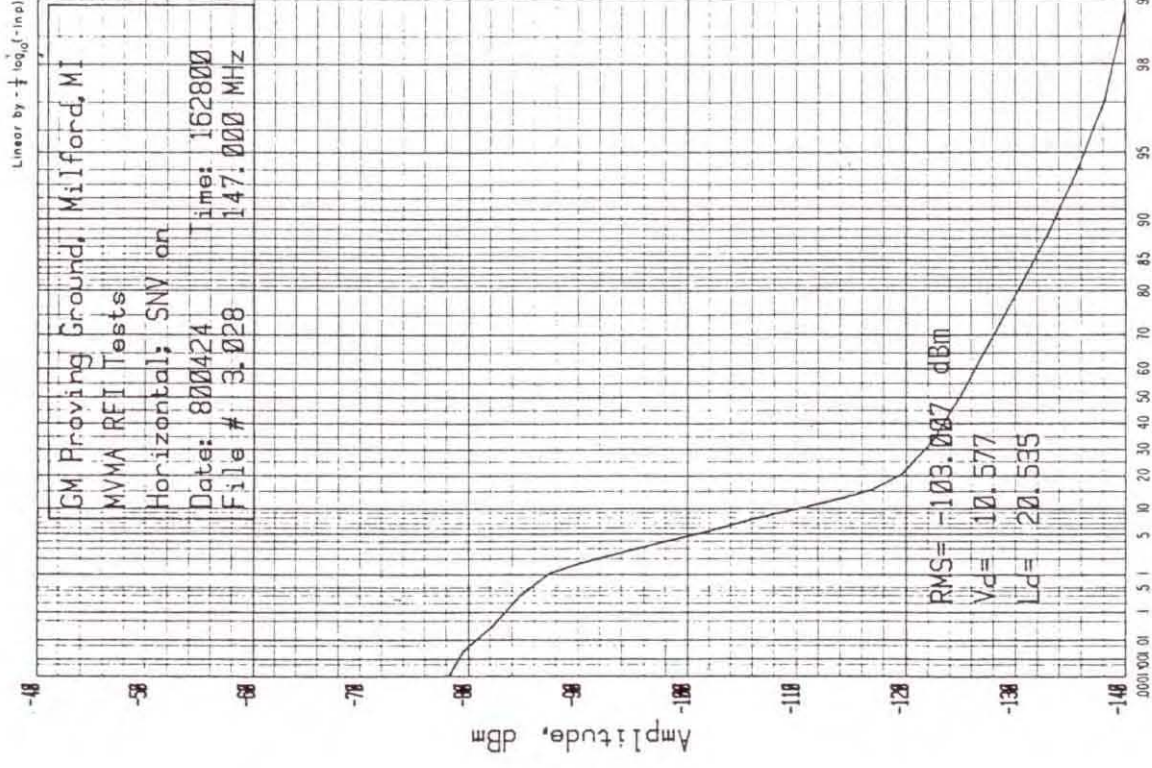


Figure 26. APD, 147 MHz - SNV

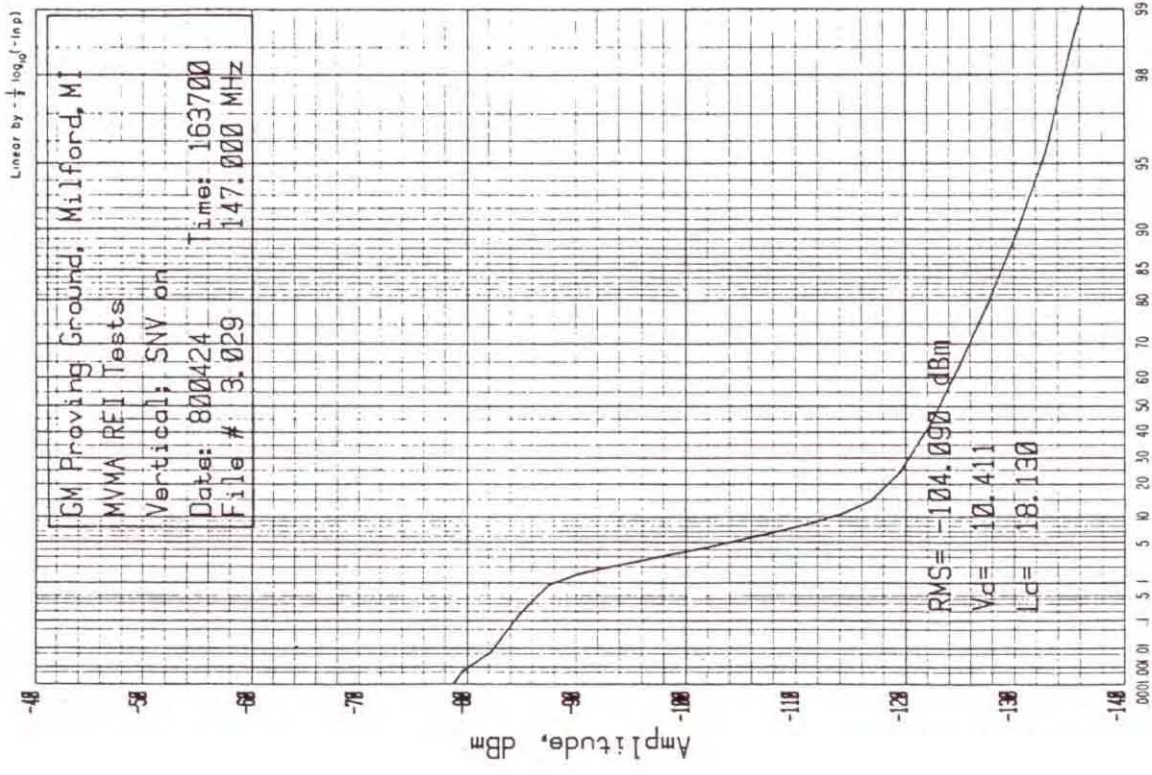


Figure 25. APD, 147 MHz - SNV

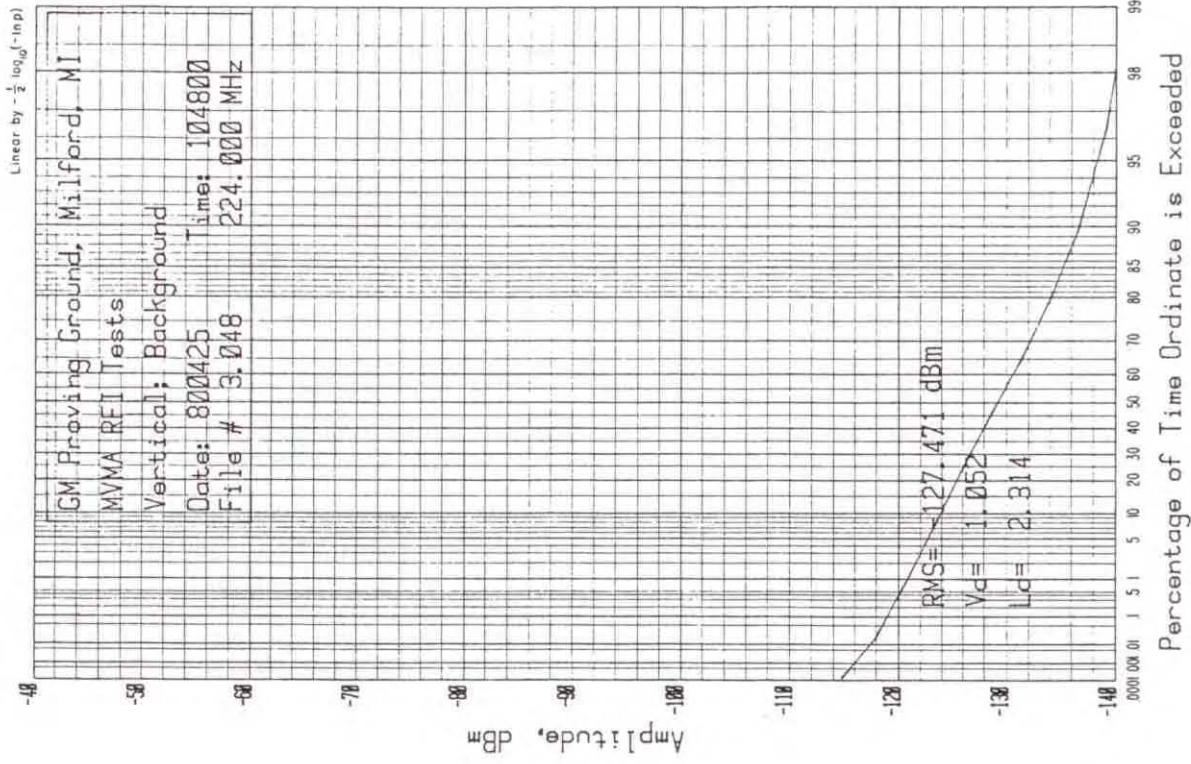


Figure 27. APD, 224 MHz - Background

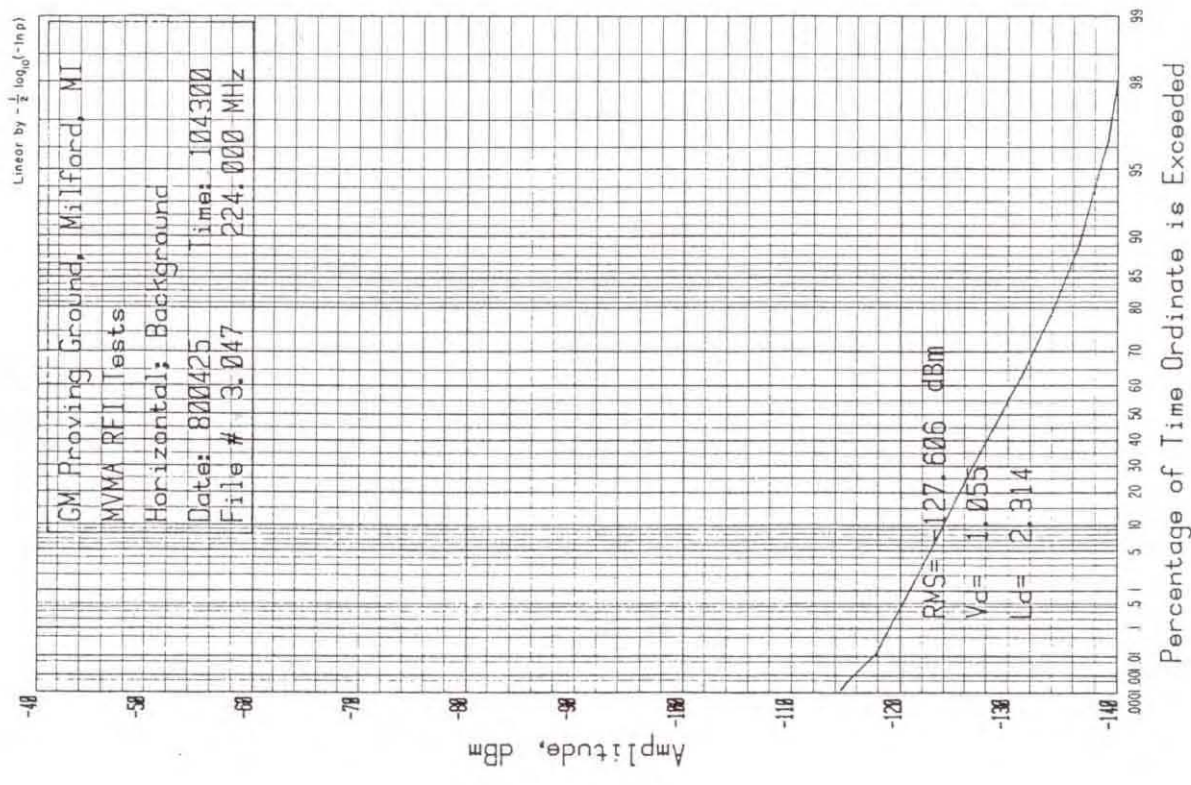


Figure 28. APD, 224 MHz - Background

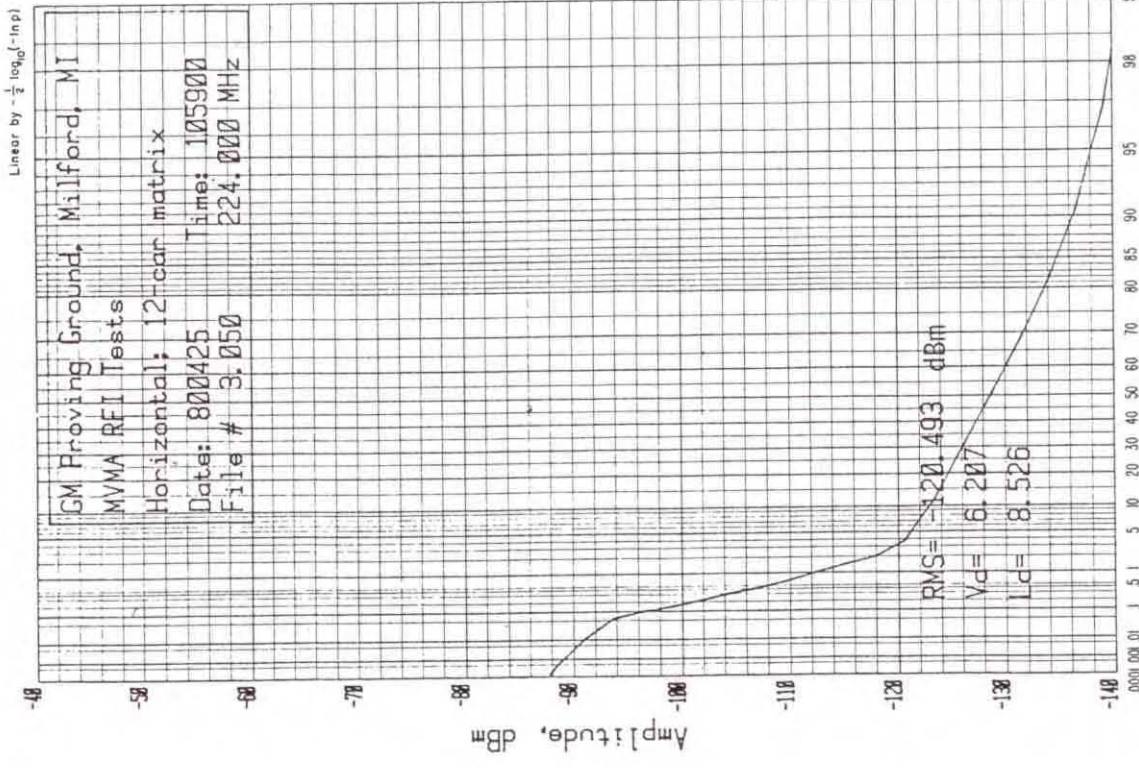


Figure 30. APD, 224 MHz - 12 Car Matrix

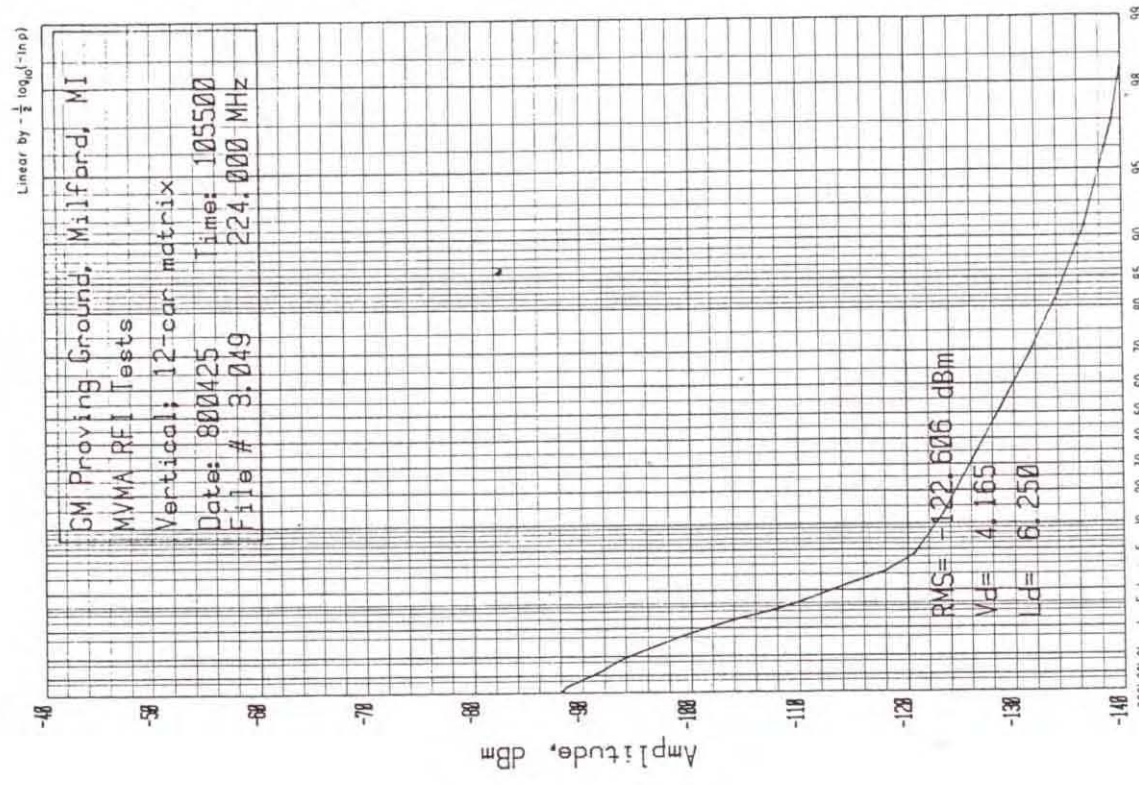


Figure 29. APD, 224 MHz - 12 Car Matrix

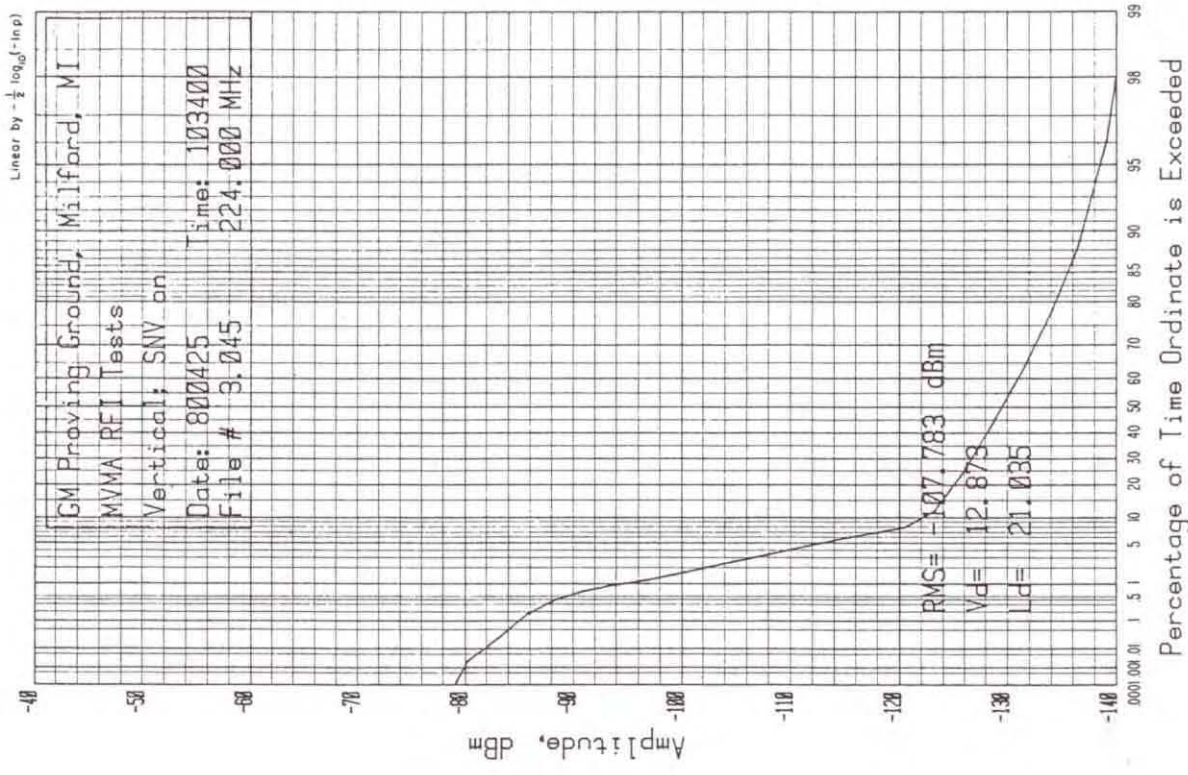


Figure 31. APD, 224 MHz - SNV

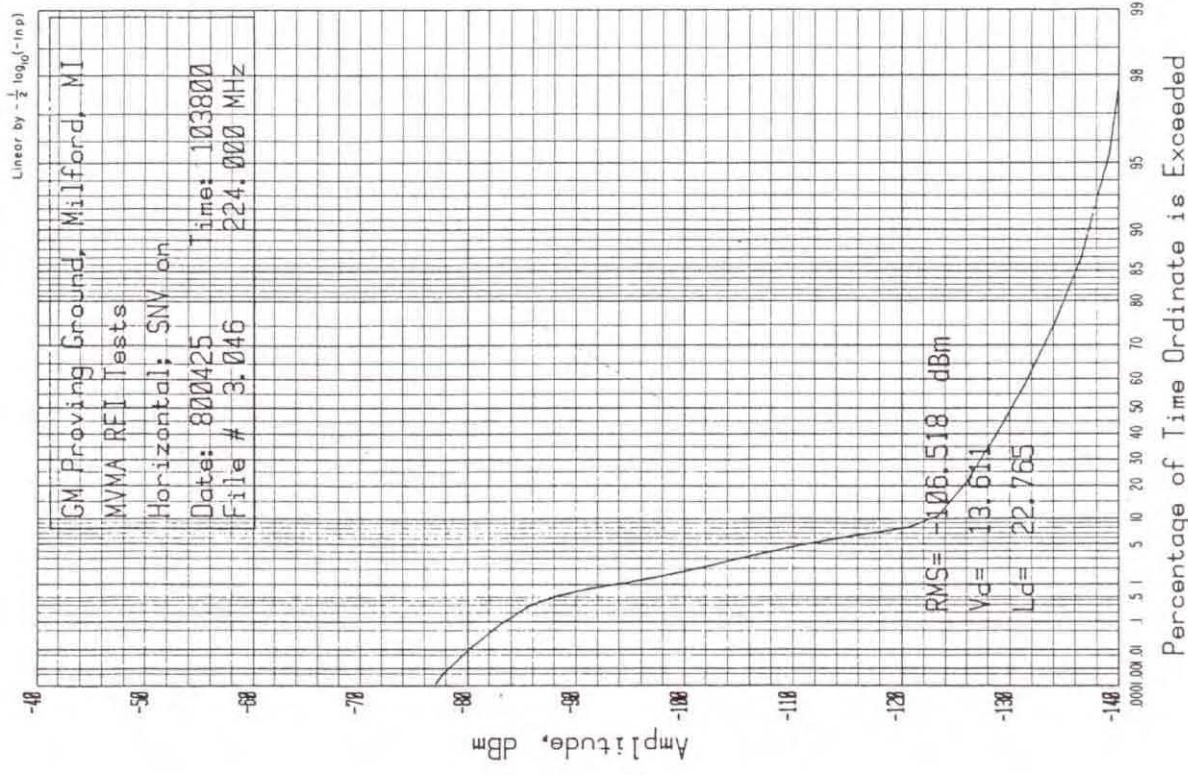


Figure 32. APD, 224 MHz - SNV

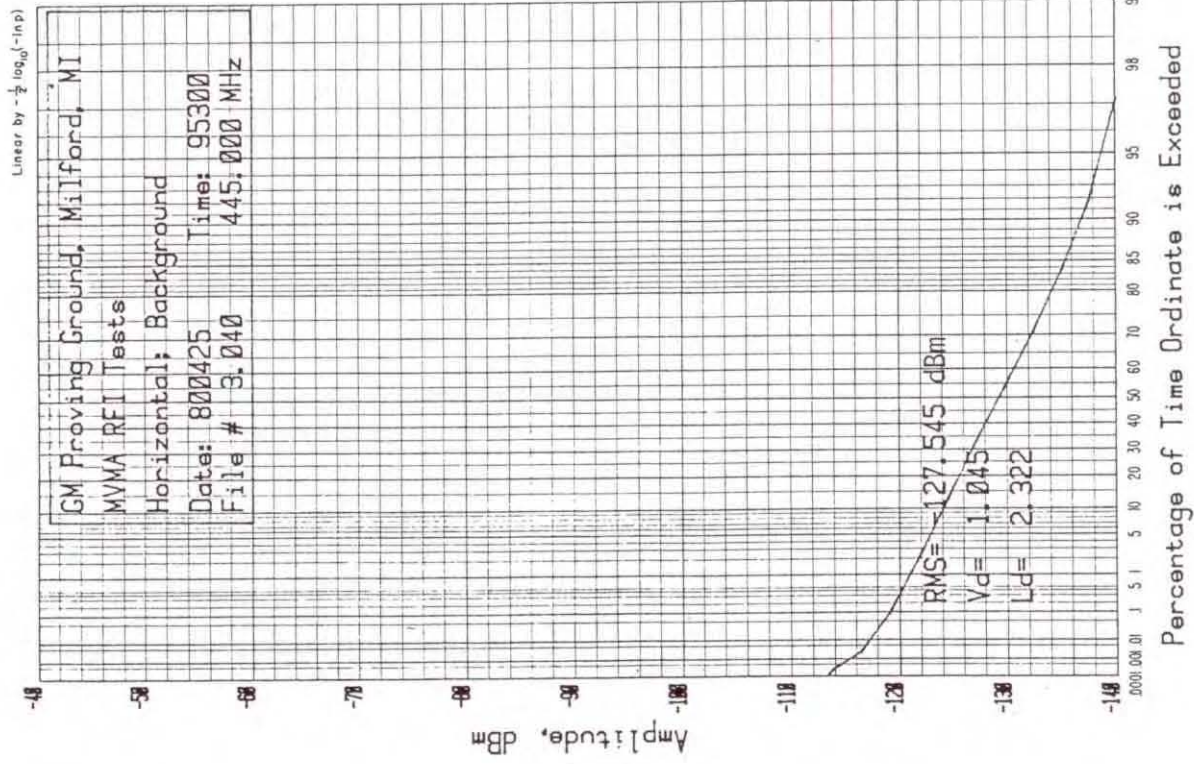


Figure 34. APD, 445. MHz. - Background

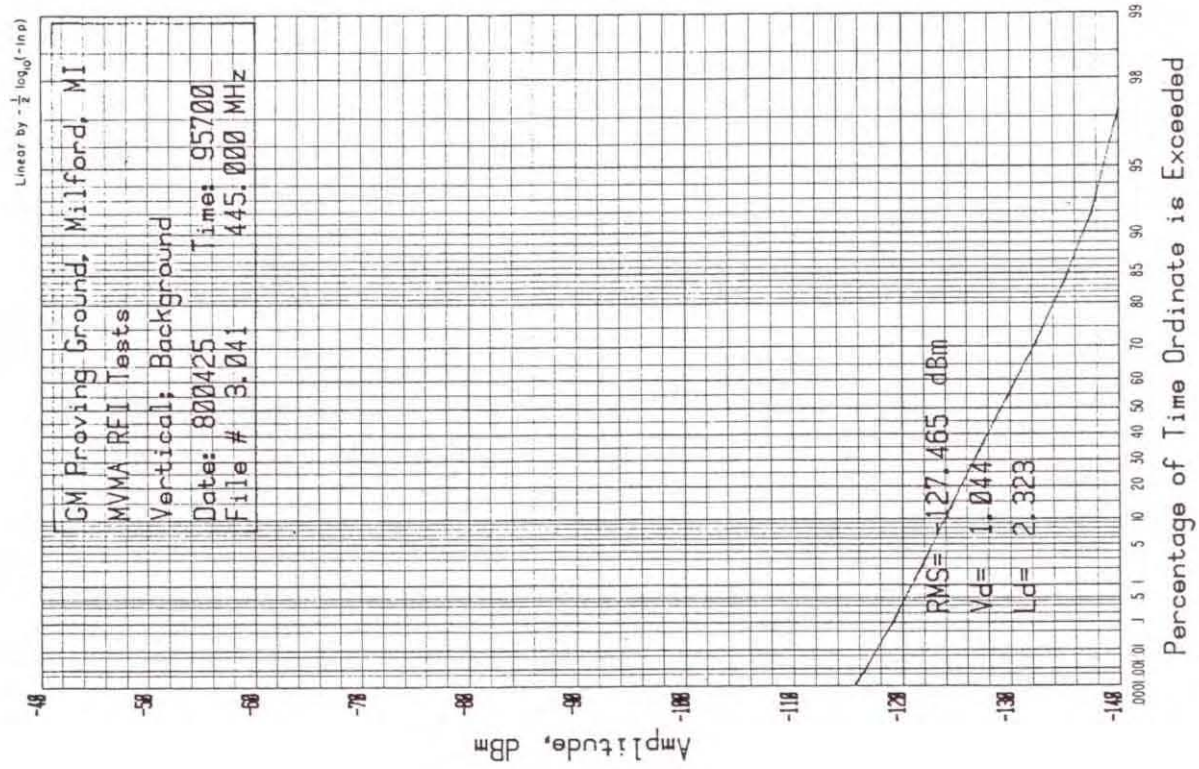


Figure 33. APD, 445 MHz - Background

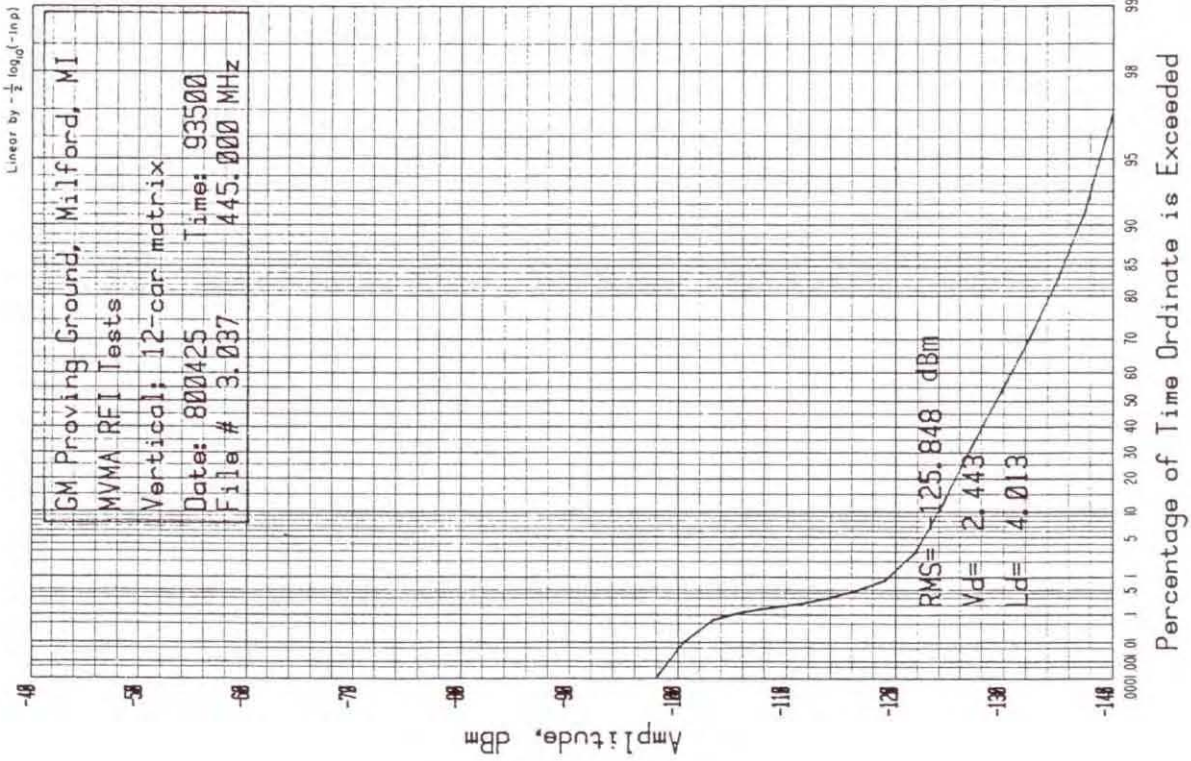


Figure 35. APD, 445 MHz, 12 Car Matrix

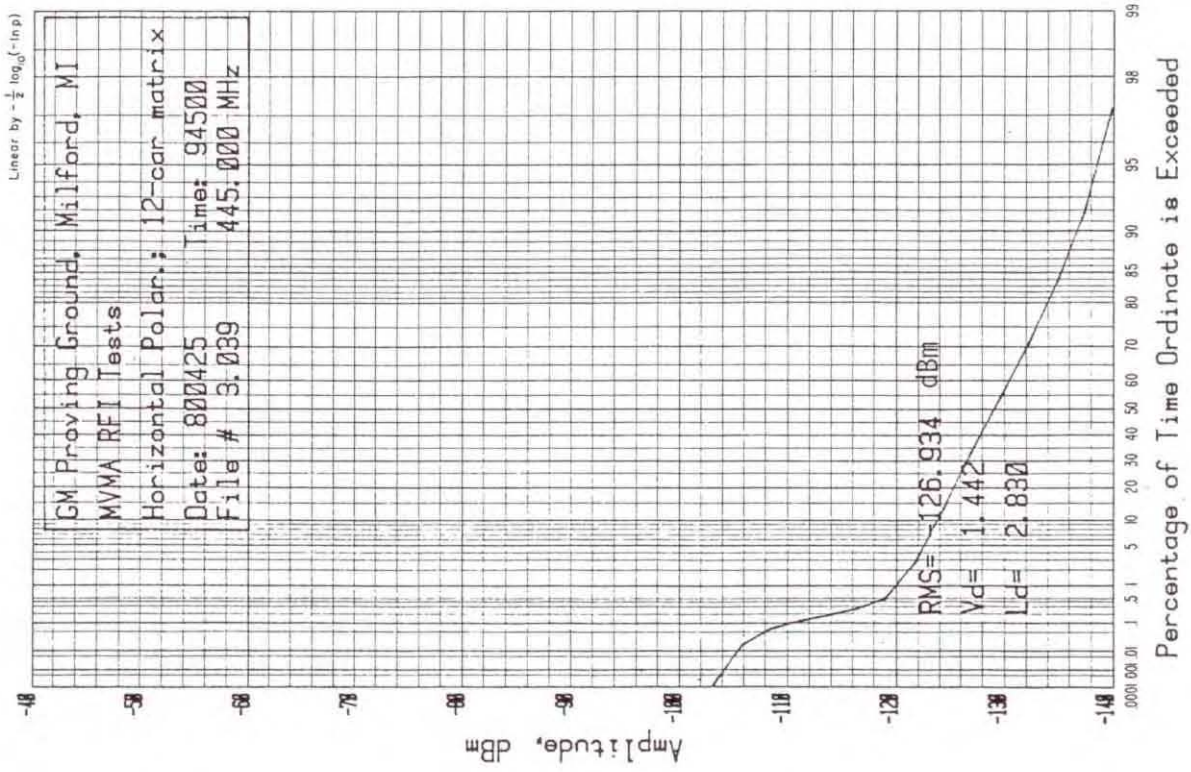


Figure 36. APD, 445 MHz, 12 Car Matrix

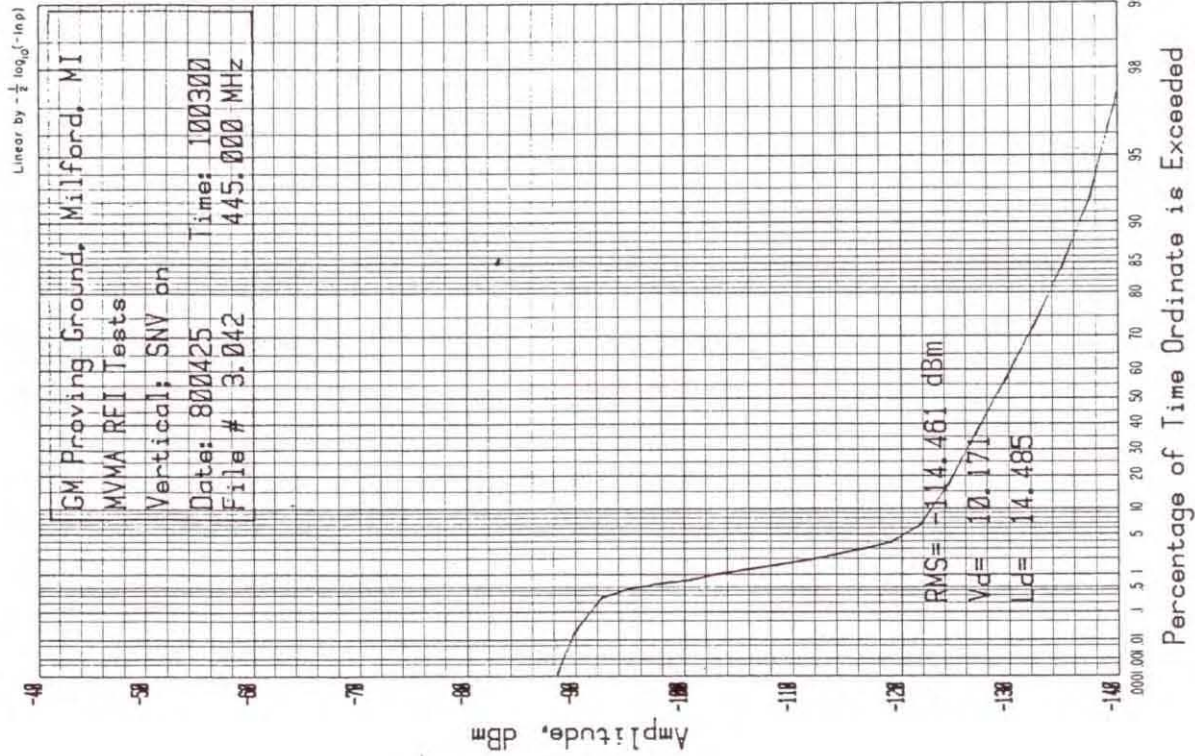


Figure 37. APD, 445 MHz - SNV

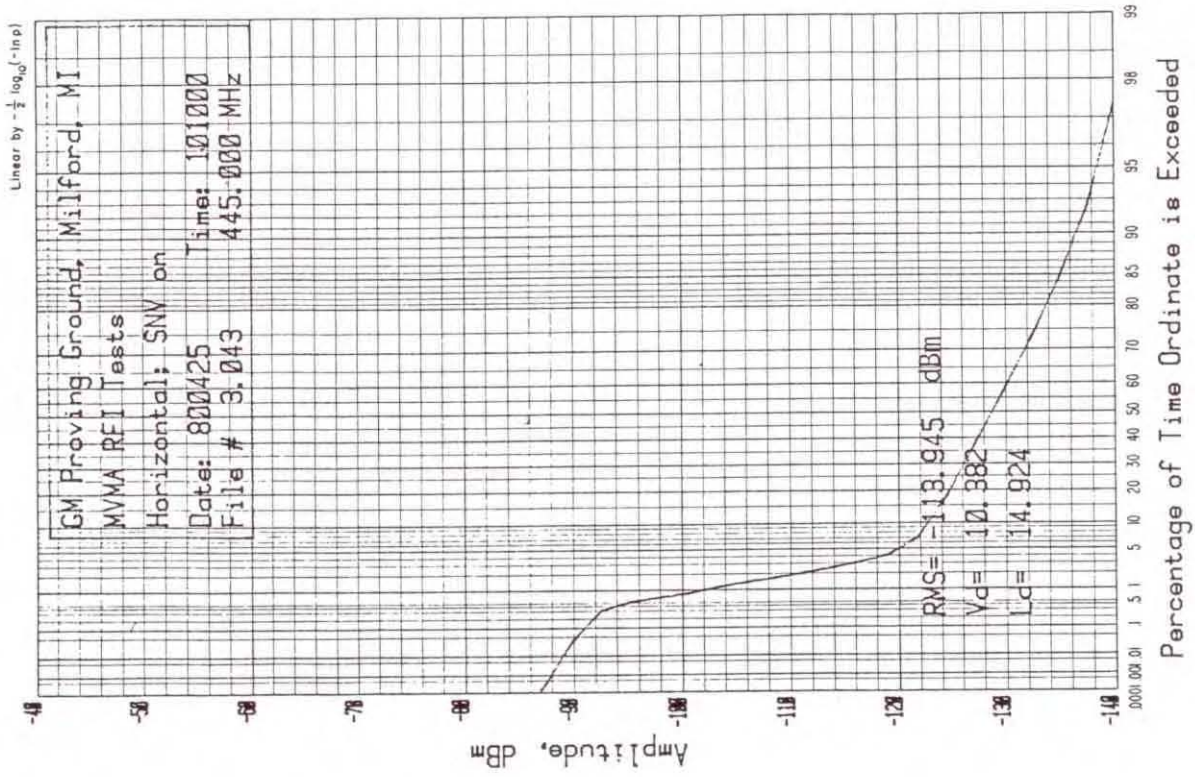


Figure 38. APD, 445 MHz - SNV

Table 2. Summary of Noise Measurements

Freq (MHz)	Fig.	Description	rms (dBm)	Antenna Factor K_1	$\text{dB} >$ $1 \mu\text{V/m}$	F_a Factor* K_2	$F_{a \text{ in}}^{**}$ dB>KT
30.2 MHz	6	V, 12 CAR	-109	104.6	-4.4	29.4	25
30.2 MHz	7	H, 12 CAR	-110	105.6	-4.4	29.4	25
30.2 MHz	8	V, SNV	-102	104.6	+2.6	29.4	32
30.2 MHz	9	H, SNV	-99	105.6	+6.6	29.4	36
47 MHz	17	V, 12 CAR	-109	109.0	0	25.5	25.5
47 MHz	18	H, 12 CAR	-114	109.1	-4.9	25.5	20.6
47 MHz	19	V, SNV	-105	109.0	+4.0	25.5	29.5
47 MHz	20	H, SNV	-98	109.1	+11.1	25.5	36.6
147 MHz	23	V, 12 CAR	-118	120.5	+2.5	15.6	18.1
147 MHz	24	H, 12 CAR	-118	120.5	+2.5	15.6	18.1
147 MHz	25	V, SNV	-104	120.5	+16.5	15.6	32.1
147 MHz	26	H, SNV	-103	120.5	+17.5	15.6	33.1
224 MHz	29	V, 12 CAR	-123	125.0	+2.0	11.9	13.9
224 MHz	30	H, 12 CAR	-120	125.0	+5.0	11.9	16.9
224 MHz	31	V, SNV	-108	125.0	+17.0	11.9	28.9
224 MHz	32	H, SNV	-107	125.0	+18.0	11.9	29.9
445 MHz	35	V, 12 CAR	-126	130.0	+4.0	5.9	9.9
445 MHz	36	H, 12 CAR	-127	130.0	+3.0	5.9	8.9
445 MHz	37	V, SNV	-114	130.0	+16.0	5.9	21.9
445 MHz	38	H, SNV	-114	130.0	+16.0	5.9	21.9

* $F_a = E_n - 20 \log f - 10 \log B + 98.9$

$K_2 = -20 \log f_{\text{MHz}} - 10 \log B + 98.9$

** This data is graphed in Fig. 39

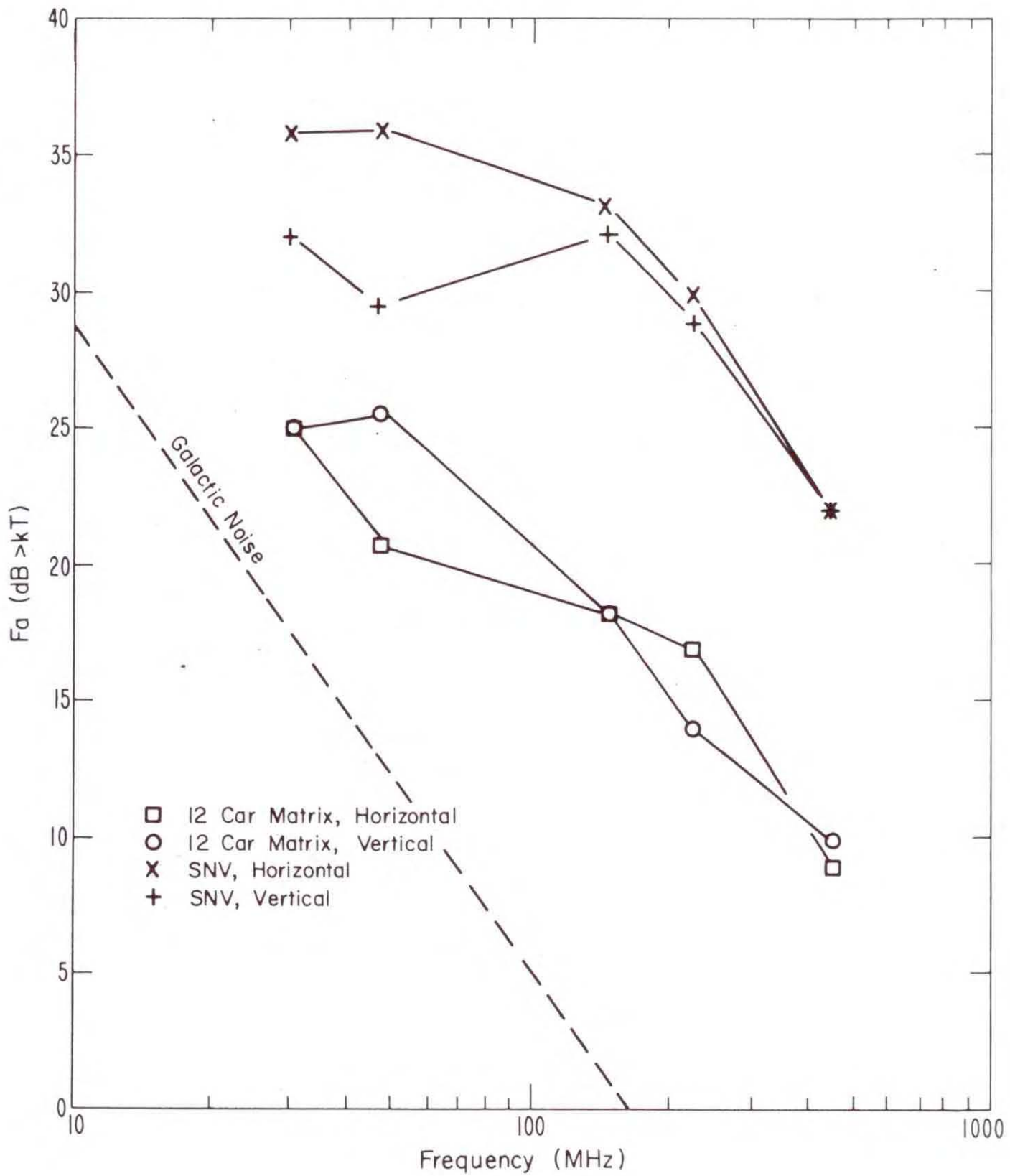


Fig. 39. Summary of Noise Measurements