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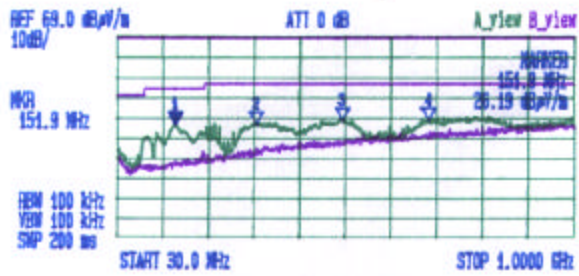
Date: June 29/98
Tested by: In Luu

RADIATED EMISSION PRESCAN @ 3 m

MILLITRONICS IQ-RADAR 160

Antenna Polarization: ☒ horizontal ☐ vertical

TEST CONFIGURATION #1: IQ-RADAR 160 (NOT MOUNTED ON THE TANK)

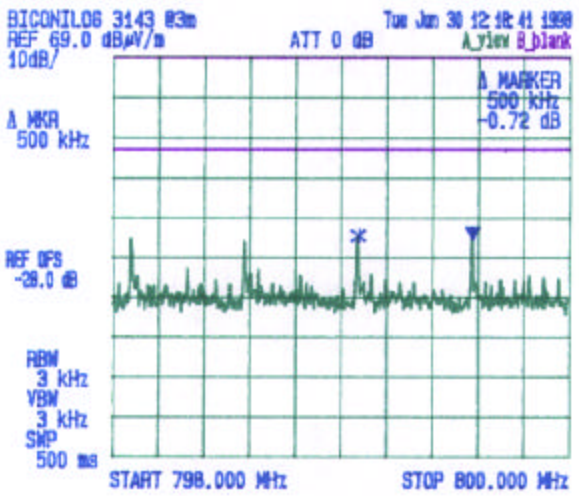


PLOT # 1

*** Multi Marker List ***

No. 1:	151.9 MHz	26.19 dBμV/m	A
No. 2:	325.2 MHz	26.03 dBμV/m	A
No. 3:	508.1 MHz	28.31 dBμV/m	A
No. 4:	691.0 MHz	28.06 dBμV/m	A
No. 5:			
No. 6:			
No. 7:			
No. 8:			

NOTE: THE ABOVE EMISSIONS WERE HARMONICS OF 500 KHz OSC. FROM THE DIGITAL CIRCUIT PORTION ONLY



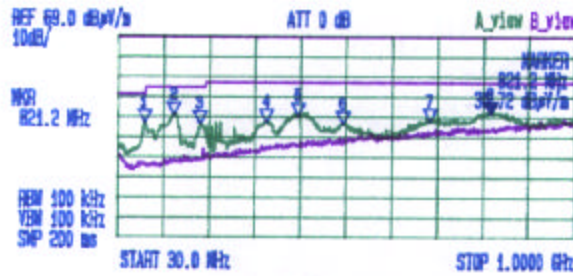
PLOT # 2

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Date: June 20/98
Tested by: Tim Lutz

RADIATED EMISSION PRESCAN @ 3 m
MILLITRONICS IQ-RADAR 160
Antenna Polarization: [] horizontal [x] vertical

TEST CONFIGURATION #1: IQ-RADAR160 (NOT IN THE TANK)

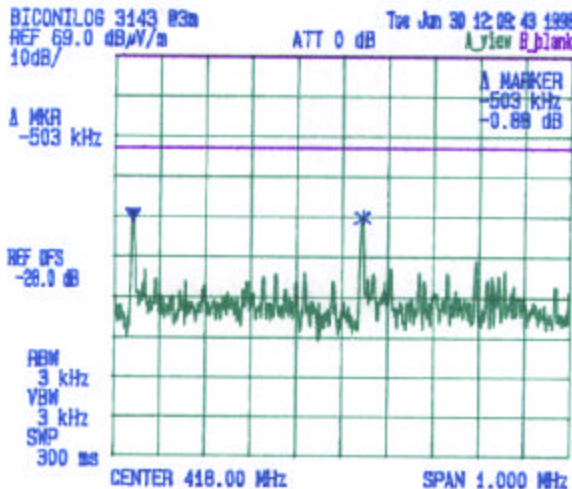


PLOT # 3

*** Multi Marker List ***

No. 1:	84.0 MHz	26.16 dBμV/m	A
No. 2:	147.8 MHz	30.06 dBμV/m	A
No. 3:	203.2 MHz	25.56 dBμV/m	A
No. 4:	344.6 MHz	26.72 dBμV/m	A
No. 5:	412.5 MHz	29.78 dBμV/m	A
No. 6:	508.1 MHz	25.84 dBμV/m	A
No. 7:	692.4 MHz	27.34 dBμV/m	A
No. 8:	821.2 MHz	30.72 dBμV/m	A
A:			

COMMENTS: THE ABOVE EMISSIONS WERE FROM THE DIGITAL CIRCUIT PORTION ONLY. THEY ARE HARMONICS OF 500KHz OSC. THESE EMISSIONS ARE BELOW FCC 15, CLASS A.



PLOT # 4

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Date: June 29/98
Tested by: Tim Lau

RADIATED EMISSION PRESCAN @ 3 m

MILLITRONICS IQ-RADAR 160

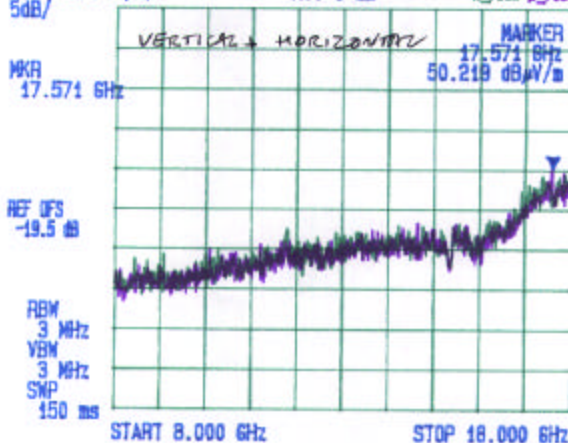
Antenna Polarization: ☒ horizontal ☒ vertical



TEST CONFIGURATION #1: IQ-RADAR 160
NOT ON THE TANK

TEST DISTANCE : 1m
E3115+HP83017+SMA7
REF 70.0 dBμV/m
5dB/

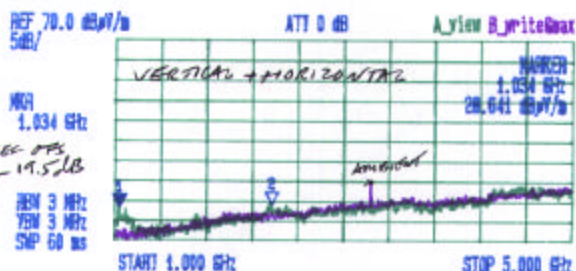
Mon Jun 29 11:52:23 1998
ATT 0 dB
A_view B_view



PLOT #5

NOTE: EMISSIONS AT 1.034 AND 2.366 GHz
ARE FROM DIGITAL CIRCUIT
PORTION ONLY.

TEST DISTANCE : 3m



PLOT #6

*** Multi Marker List ***
No. 1: 1.034 GHz 28.641 dBμV/m A
No. 2: 2.366 GHz 29.359 dBμV/m A
No. 3:
No. 4:
No. 5:
No. 6:
No. 7:
No. 8:
A:

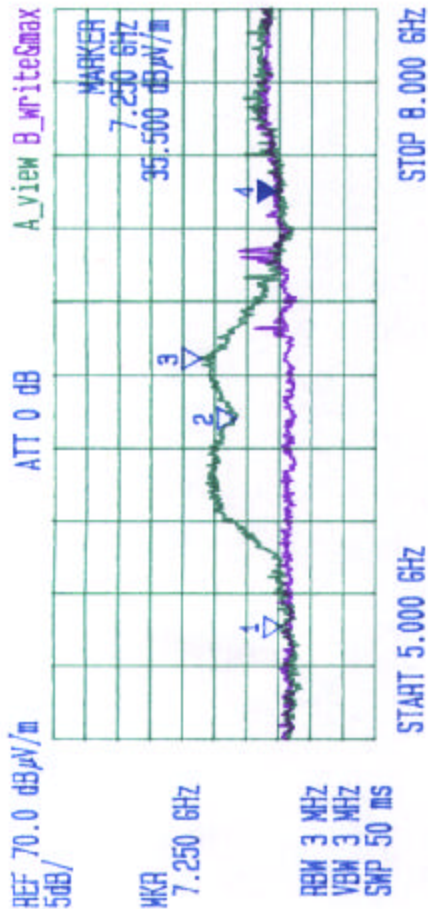


RADIATED EMISSION PRESCAN @ 3 m
MILLTRONICS IQ-RADAR 160
Antenna Polarization: [] horizontal [x] vertical

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Date: June 25/98
Tested by: Tri Luu

TEST CONFIGURATION #1: IQ-RADAR 160 (NOT ON THE TRAIL)



No. 1:	5.459 GHz	34.719 dB μ V/m	A
No. 2:	6.320 GHz	41.781 dB μ V/m	A
No. 3:	6.564 GHz	47.250 dB μ V/m	A
No. 4:	7.250 GHz	35.500 dB μ V/m	A
No. 5:			
No. 6:			
No. 7:			
No. 8:			
A:			

Plot #7

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Date: June 30/98
Tested by: Tri Lou

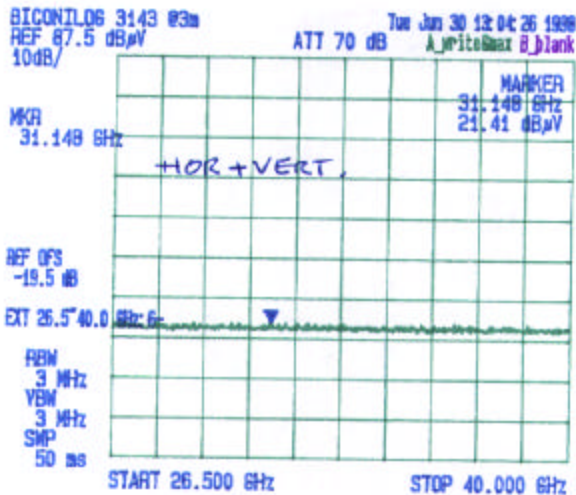
RADIATED EMISSION PRESCAN @ 1 m

MILLITRONICS IQ-RADAR 160

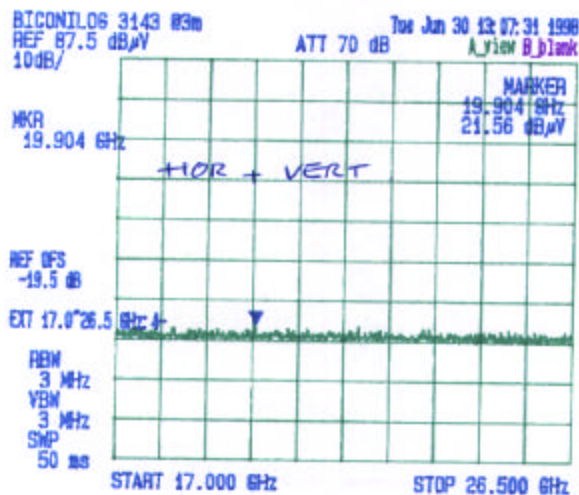
Antenna Polarization: ☒ horizontal ☒ vertical



TEST CONFIGURATION #1: NO METAL TANK



Plot #16



Plot #17

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Date: June 29/98
Tested by: Tri Luu

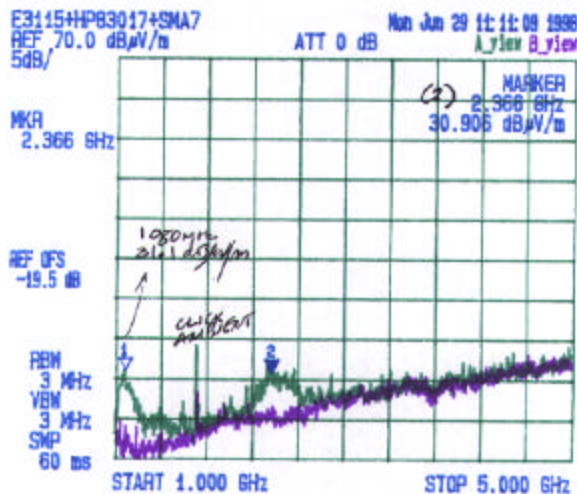
RADIATED EMISSION PRESCAN @ 3 m

MILLITRONICS IQ-RADAR 160

Antenna Polarization: ☒ horizontal ☒ vertical

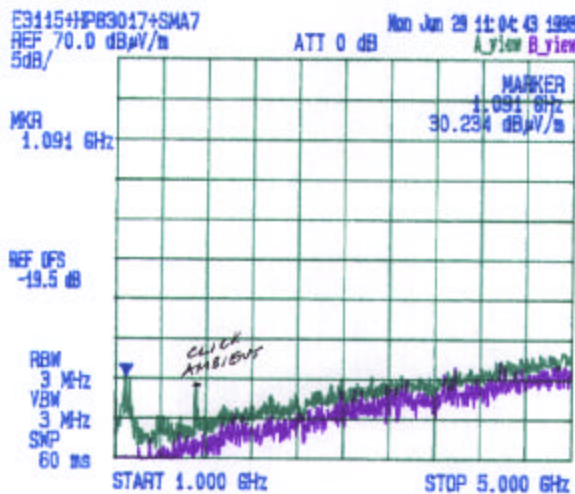


TEST CONFIGURATION #2: IQ-RADAR 160 MOUNTED ON THE TANK



PLOT #8

NOTE: EMISSIONS AT 1.08 + 2.366 MHz
ARE FROM DIGITAL CIRCUIT
PORTION.



PLOT #9

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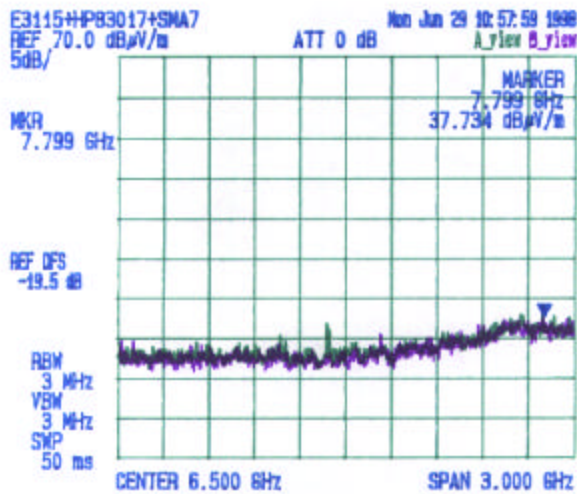
Date: June 29/98
Tested by: Tin Lau

RADIATED EMISSION PRESCAN @ 3 m

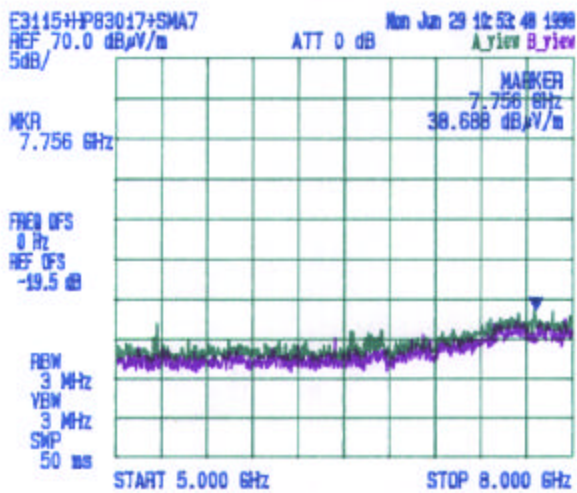
MILLITRONICS IQ-RADAR 160

Antenna Polarization: ☒ horizontal ☒ vertical

TEST CONFIGURATION #2: IQ RADAR 160 MOUNTED ON THE TANK



PLOT #10



PLOT #11

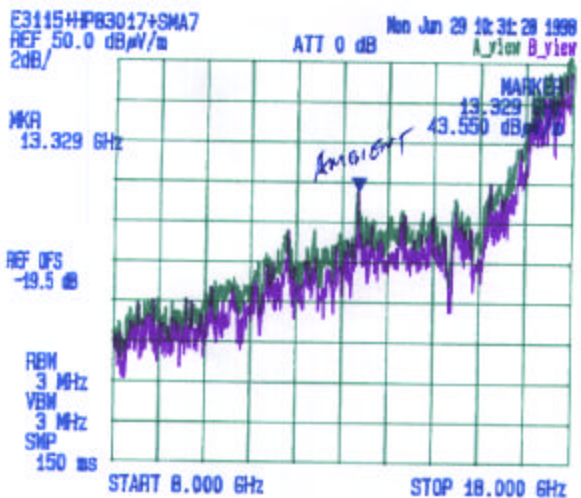
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RADIATED EMISSION PRESCAN @ 100 mm 1.0m
MILLITRONICS IQ-RADAR 160
Antenna Polarization: ☒ horizontal ☒ vertical



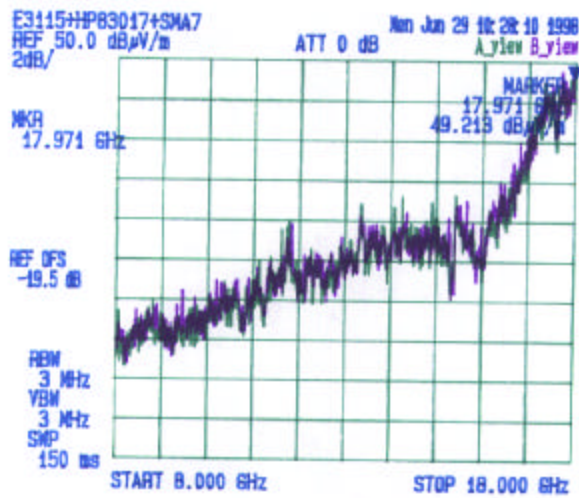
Date: June 29/98
Tested by: Tri Lee

TEST CONFIGURATION #2: WITH TANK (WETZ)



PLOT #12

VERTICAL



PLOT #13

HORIZONTAL

PAGES

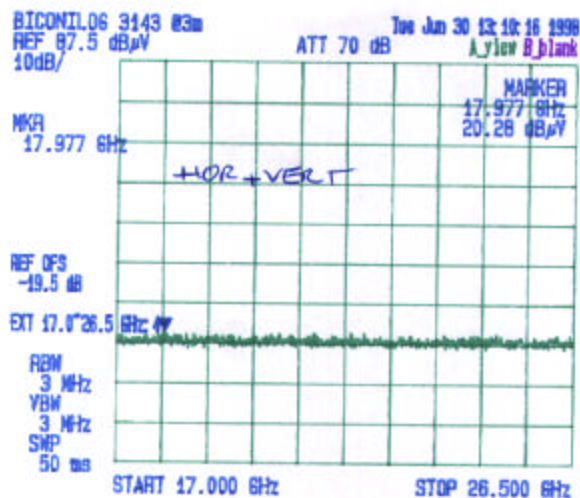
Date: June 30/98
Tested by: Tri Lian

RADIATED EMISSION PRESCAN @ 1 m

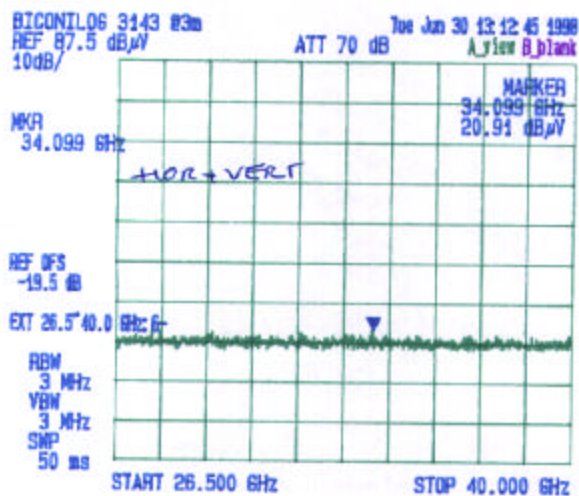
MILLITRONICS IQ-RADAR 160

Antenna Polarization: ☒ horizontal ☒ vertical

TEST CONFIG. #2: WITH METAL TANK



Plot #14



Plot #15



MODEL:

APPLICANT: MILTRONICS
PRODUCT: DR-BA-DA-R-160
MODEL: 45

POWER-LINE CONDUCTED EMISSIONS MEASUREMENTS

EMI Detector: [M] Peak [1] Quasi Peak [4] Average Temp.: 24 °C, Humidity: 46 %
Line Tested: I Input Voltage: 120V, Tested by: phung Test Date: Jan
Comments: FCC CLASS B

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QPA1	No	User Menu
1	0.680950	39.1	37.0	35.6	-11.0		
2	24.002175	35.3	33.7	29.6	-14.3		
3	25.003400	37.9	36.3	32.4	-11.7		
4	26.004188	39.4	37.9	34.3	-10.1		
5	27.003450	37.8	36.2	32.3	-11.8		

SIGNAL NUMBER
1

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 680 kHz
37.07 dBuV

LOG REF 80.0 dBμV

15

43

ATN

500

VA SB

100

1000

57-137 450 044-050 167-15

IF BY 9.0 x12

AVG BW 3Q 3Q K+12

STOP 30.00 MHz
SWP 1.33 sec

Plot 18



UltraTech
Engineering Labs Inc.

APPLICANT: HILLBROOK'S
PRODUCT: 100-800-1008
MODEL: 33

POWER-LINE CONDUCTED EMISSIONS MEASUREMENTS

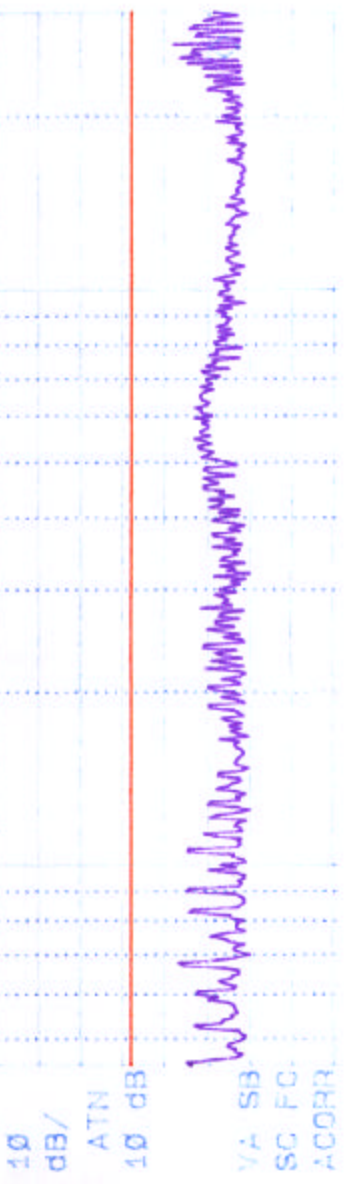
EMI Detector: [1] Peak [2] Quasi Peak [3] Average Temp.: 24 °C, Humidity: 48 %
Line Tested: 100-800-1008 Tested by: Phuong Test Date: June 30/98
Comments: (FCC CLASS B)

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QP,1.1	No User
1	0.683588	37.6	35.8	35.0	-12.2	Menu
2	24.502875	37.0	35.4	34.5	-12.6	
3	26.502325	39.1	38.0	34.3	-10.0	
4	26.003200	40.2	39.0	35.5	-9.0	
5	27.502475	37.2	35.3	34.3	-12.7	

SIGNAL NUMBER
4

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 26.12 MHz
22.45 dBµV

LOG REF 80.0 dBµV



VA SB
SC FC
ACORR
START 450 KHz
IF BW 9.0 KHz
AVERAGE 30 KHz
STOP 30.00 MHz
SWP 1.33 sec