



DATE: 10 July 2012

I.T.L. (PRODUCT TESTING) LTD. FCC Radio Test Report for Panoramic Power Ltd.

Equipment under test:

Wireless Self-Powered Branch-Circuit Level Current Sensor

PAN-1-2-225-US

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This report relates only to items tested.





Measurement/Technical Report for Panoramic Power Ltd.

Equipment under test:

Wireless Self-Powered Branch-Circuit Level Current Sensor

FCC ID: Z9M-PAN-1-2

This report concerns: Original Grant: x

Class I change: Class II change:

47CFR15 Section 15.249

Measurement procedure used is KDB 558074 D01 18 January 2012 and ANSI C63.4-2003.

Application for Certification Applicant for this device:

prepared by: (different from "prepared by")

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1. General Information

1.1 Administrative Information

Manufacturer: Panoramic Power Ltd.

Manufacturer's Address: 20 Atir Yeda St., Kfar Saba

44643, Israel

Tel: +972-9-766-7600 Fax: +972-9-766-7610

Manufacturer's Representative: Yael Alalio

Equipment Under Test (E.U.T): Wireless Self-Powered Branch-

Circuit Level Current Sensor

Equipment Model No.: PAN-1-2-225-US

Equipment Serial No.: Not Designated

Date of Receipt of E.U.T: 18.06.12

Start of Test: 18.06.12

End of Test: 18.06.12

Test Laboratory Location: I.T.L (Product Testing) Ltd.

Kfar Bin Nun, ISRAEL 99780

Test Specifications: FCC Part 15, Subpart C, Section

15.249



1.2 List of Accreditations

The EMC laboratory of I.T.L. is accredited by the following bodies:

- 1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
- 2. The Federal Communications Commission (FCC) (U.S.A.), Registration No. 90715.
- 3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
- 4. The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) (Japan), Registration Numbers: C-1350, R-1285.
- 5. Industry Canada (Canada), IC File No.: 46405-4025; Site No. IC 4025B-1.
- 6. TUV Product Services, England, ASLLAS No. 97201.

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.



1.3 Product Description

PAN12 is a Sensor which is located on the Building Branch Circuit to detect the current supplied. The product is AC powered It is a compact, plastic encased unit, not directly connected to the electrical supply source but is mutually electromagnetically coupled to derived its electrical supply from the utility wiring. It uses internal step-down transformer for that coupling and supplying the circuits, to achieve low voltage for circuits needed for the measurement.

1.4 Test Methodology

Radiated testing was performed according to the procedures in KDB 558074 D01 18 January 2012 and ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 Test Facility

The radiated emissions tests were performed at I.T.L.'s testing facility at Kfar Bin-Nun, Israel. This site is a FCC listed test laboratory (FCC Registration No. 90715, date of listing September 3, 2009).

I.T.L.'s EMC Laboratory is also accredited by A2LA, certificate No. 1152.01.

1.6 Measurement Uncertainty

Radiated Emission

Radiated Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4) for open site 30-1000MHz:

Expanded Uncertainty (95% Confidence, K=2):

 $+4.96 \, dB$



2. System Test Configuration

2.1 Justification

The E.U.T. was tested in normal operation mode set to transmit in 3 frequencies within the 902 - 928 MHz frequency band.

Since unit can be installed in different orientations, unit was scanned in 3 different orientations to determent worst-case radiation.

2.2 Special Accessories

No special accessories were needed to achieve compliance.

2.3 Equipment Modifications

No special modifications were needed to achieve compliance.

2.4 Configuration of Tested System

The configuration of the tested system is described below.

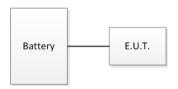


Figure 1. Configuration of Tested System



3. Radiated Measurements Test Setup Photos



Figure 2. Radiated Emission Test



4.1 Test Specification

F.C.C., Part 15, Subpart C, Section 15.249(a)

4.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3. The E.U.T. was placed on a non-conductive table, 0.8 meters above the O.A.T.S. ground plane.

The EMI receiver was set to the E.U.T. Fundamental Frequencies (905, 915 and 925 MHz) Peak and Quasi-peak Detection. The turntable and antenna mast were adjusted for maximum level reading on the EMI receiver. The measurement was performed for vertical and horizontal polarizations of the test antenna.

4.3 Test Results

JUDGEMENT: Passed by 2 dB

The EUT met the FCC Part 15, Subpart C, Section 15.249(a) specification requirements.

See additional details in Figure 3 to Figure 9.

TEST PERSONNEL:

Tester Signature: _____ Date: 24.07.12

Typed/Printed Name: A. Sharabi



E.U.T Description Wireless Self-Powered Branch-Circuit Level Current Sensor

Model Number PAN-1-2-225-US Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C 15.249(a)

Antenna Polarization: Horizontal/Vertical

Test Distance: 3 meters Detectors: Peak, Quasi-peak

Freq.	Pol.	Peak	Peak	QP Pooding	QP Specification	Margin
(MHz)	V/H	Reading (dBμV/m)	Specification (dBµV/m)	Reading (dBµV/m)	Specification (dBµV/m)	(dB)
905.0	Н	92.0	113.98	90.5	93.98	-3.5
905.0	V	89.3	113.98	87.7	93.98	-6.3
915.0	Н	92.9	113.98	91.4	93.98	-2.6
915.0	V	94.4	113.98	92.0	93.98	-2.0
925.0	Н	92.9	113.98	91.2	93.98	-2.8
925.0	V	86.4	113.98	85.1	93.98	-8.8

Figure 3. Field Strength of Fundamental. Antenna Polarization: HORIZONTAL/VERTICAL.

Detectors: Peak, Quasi-peak

Note: Margin refers to the test results obtained minus specified requirement; thus, a positive number indicates failure, and a negative result indicates that the product passes the test.

"Correction Factors" = Antenna Correction Factor + Cable Loss.

"Correction Factors" = Antenna Correction Factor + Cable Loss.

[&]quot;Peak Reading" includes "Correction Factors.

[&]quot;Quasi-peak Reading" includes "Correction Factors.



E.U.T Description Wireless Self-Powered Branch-Circuit Level Current Sensor

Model Number PAN-1-2-225-US Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C 15.249(a)

Antenna Polarization: Horizontal/Vertical

Test Distance: 3 meters Detector: Peak, Quasi-peak

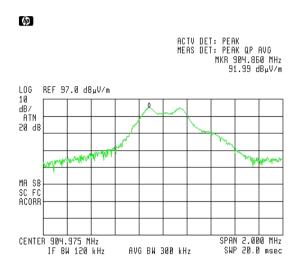


Figure 4. 905.00 MHz Antenna Polarization Horizontal

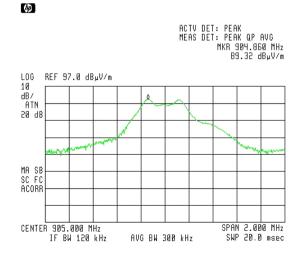


Figure 5. 905.00 MHz Antenna Polarization Vertical



E.U.T Description Wireless Self-Powered Branch-Circuit Level Current Sensor

Model Number PAN-1-2-225-US Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C 15.249(a)

Antenna Polarization: Horizontal/Vertical

Test Distance: 3 meters Detector: Peak, Quasi-peak

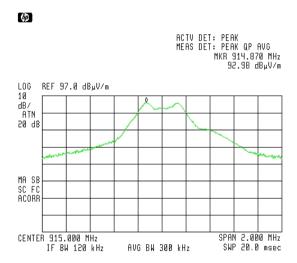


Figure 6. 915.00 MHz Antenna Polarization Horizontal

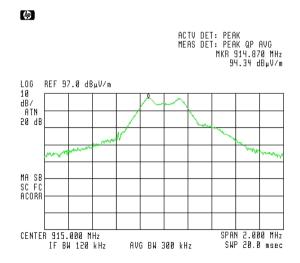


Figure 7. 915.00 MHz Antenna Polarization Vertical



E.U.T Description Wireless Self-Powered Branch-Circuit Level Current Sensor

Model Number PAN-1-2-225-US Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C 15.249(a)

Antenna Polarization: Horizontal/Vertical

Test Distance: 3 meters Detector: Peak, Quasi-peak

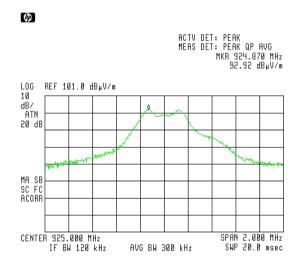


Figure 8. 925.00 MHz Antenna Polarization Horizontal

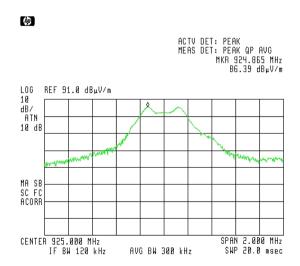


Figure 9. 925.00 MHz Antenna Polarization Vertical



4.4 Test Instrumentation Used, Field Strength of Fundamental

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	December 12, 2011	1 year
RF Section	НР	85420E	3705A00248	December 12, 2011	1 year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 23, 2012	1 Year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A

Figure 10 - Test Instrumentation Used



5. Spurious Radiated Emission 9 kHz - 30 MHz

5.1 Test Specification

F.C.C., Part 15, Subpart C, Section 15.249(b)

5.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3.

A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The configuration tested is shown in Figure 1.

The frequency range 9 kHz-1000 MHz was scanned, and the list of the highest emissions was verified and updated accordingly.

The emissions were measured using a computerized EMI receiver complying to CISPR 16 requirements. The specification limits and applicable correction factors are loaded to the receiver via a 3.5" floppy disk.

In the frequency range 9 kHz-30 MHz, the loop antenna was rotated on its vertical axis. The antenna height (center of loop) was 1 meter.

The E.U.T. was operated in continuous transmission to enable better detection of signals.

5.3 Test results

JUDGEMENT: Passed

No signals were detected in the frequency range of 9 kHz - 30 MHz.

The EUT met the requirements of the F.C.C. Part 15, Subpart C, Section 15.249 specification.

TEST PERSONNEL:

Tester Signature: _____ Date: 24.07.12

Typed/Printed Name: A. Sharabi



5.4 Test Instrumentation Used, Radiated Measurements 9 kHz – 30 MHz

Instrument	Manufacturer	Model	Serial Number	Calibration	Period
EMI Receiver	НР	85422E	3906A00276	December 12, 2011	1 year
RF Section	НР	85420E	3705A00248	December 12, 2011	1 year
Active Loop Antenna	EMCO	6502	9506-2950	October 19, 2011	1 year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	НР	LaserJet 2200	JPKGC19982	N/A	N/A

Figure 11 - Test Instrumentation Used

5.5 Field Strength Calculation

The field strength is calculated directly by the EMI Receiver software, and a "Correction Factors" data disk, using the following equation:

$$FS = RA + AF + CF$$

FS: Field Strength [dB\u00e4v/m]

RA: Receiver Amplitude [dBµv]

AF: Receiving Antenna Correction Factor [dB/m]

CF: Cable Attenuation Factor [dB]

Example: $FS = 30.7 \text{ dB}\mu\text{V}$ (RA) + 14.0 dB (AF) + 0.9 dB (CF) = 45.6 dB μV

No external pre-amplifiers were used.



6. Spurious Radiated Emission 30 MHz- 10 GHz

6.1 Test Specification

F.C.C., Part 15, Subpart C, Section 15.249(b)

6.2 Test Procedure

The E.U.T operation mode and test set-up are as described in Section 3.

A preliminary measurement to characterize the E.U.T was performed inside the shielded room, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The configuration tested is shown in Figure 1.

The emission levels were compared to the requirement of Section 15.249.

In the frequency range 30 MHz - 2.9 GHz, a computerized EMI receiver complying to CISPR 16 requirements was used. The specification limits and applicable correction factors are loaded to the receiver via a 3.5" floppy disk.

In the frequency range 2.9 - 10 GHz, a spectrum analyzer including a low noise amplifier was used. During peak measurements, the I.F. bandwidth was 1 MHz, and video bandwidth 3 MHz. During average measurements, the I.F. bandwidth was 1 MHz and video bandwidth was 100 Hz.

The readings were maximized by adjusting the antenna height between 1-4 meters, the turntable azimuth between 0-360°, and the antenna polarization.

Verification of the E.U.T emissions was based on the following methods: turning the E.U.T on and off; using a frequency span less than 10 MHz; observation of the signal level during turntable rotation. (Background noise is not affected by the rotation of the E.U.T.).

The test distance was 3 meters.

6.3 Test Results

JUDGEMENT: Passed by 12.7 dB

The margin between the emission level and the specification limit is 12.7 dB in the worst case at the frequency of 1810.00 MHz, vertical polarization.

The EUT met the requirements of the F.C.C. Part 15, Subpart C Section 15.249, specification.

TEST PERSONNEL:

Tester Signature: _____ Date: 24.07.12

Typed/Printed Name: A. Sharabi



Spurious Radiated Emission 30 MHz- 10 GHz

E.U.T Description Wireless Self-Powered Branch-Circuit

Level Current Sensor

Type PAN-1-2-225-US
Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C

Antenna Polarization: Horizontal/Vertical Frequency range: 30 MHz to 10.0 GHz

Test Distance: 3 meters Detector: Peak

Operation Frequency	Freq.	Pol.	Peak Reading	Peak Specification	Margin
(MHz)	(MHz)	V/H	(dBµV/m)	(dBµV/m)	(dB)
905.00	1810.00	Н	51.9	74.0	-22.1
905.00	1810.00	V	51.2	74.0	-22.8
915.00	1830.00	Н	51.9	74.0	-22.1
915.00	1830.00	V	50.9	74.0	-23.1
925.00	1850.00	Н	48.5	74.0	-25.5
925.00	1850.00	V	53.6	74.0	-20.4

Figure 12. Spurious Radiated Emission

Margin refers to the test results obtained minus specified requirement; thus a positive number indicates failure, and a negative result indicates that the product passes the test.

[&]quot;Peak Reading" includes correction factor.

[&]quot;Correction Factor" = Antenna Factor + Cable Loss- Low Noise Amplifier Gain



Spurious Radiated Emission 30 MHz- 10 GHz

E.U.T Description Wireless Self-Powered Branch-Circuit

Level Current Sensor

Type PAN-1-2-225-US
Serial Number: Not Designated

Specification: FCC, Part 15, Subpart C

Antenna Polarization: Horizontal/Vertical Frequency range: 30 MHz to 10.0 GHz

Test Distance: 3 meters Detector: Peak

Operation Frequency	Freq.	Pol.	Average Reading	Average Specification	Margin
(MHz)	(MHz)	V/H	$(dB\mu V/m)$	(dBµV/m)	(dB)
905.00	1810.00	Н	40.7	54.0	-13.3
905.00	1810.00	V	41.3	54.0	-12.7
915.00	1830.00	Н	37.8	54.0	-16.2
915.00	1830.00	V	37.5	54.0	-16.5
925.00	1850.00	Н	35.7	54.0	-18.3
925.00	1850.00	V	40.1	54.0	-13.9

Figure 13. Spurious Radiated Emission

Margin refers to the test results obtained minus specified requirement; thus a positive number indicates failure, and a negative result indicates that the product passes the test.

[&]quot;Average Reading" includes correction factor.

[&]quot;Correction Factor" = Antenna Factor + Cable Loss- Low Noise Amplifier Gain



6.4 Test Instrumentation Used, Radiated Measurements 30 MHz – 10 GHz

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Period
EMI Receiver	HP	85422E	3906A00276	December 12, 2011	1 Year
RF Filter Section	HP	85420E	3705A00248	December 12, 2011	1 Year
Antenna Biconical	ARA	BCD- 235/B	1041	November 12, 2011	1 Year
Antenna Log Periodic	ARA	LPD-2010/A	1038	March 23, 2012	1 Year
Antenna Log Periodic	A.H. Systems	SAS- 200/511	253	January 27, 2011	2 Years
Low Noise Amplifier	DBS MICROWAVE	LNA-DBS- 0411N313	013	November 5, 2011	1 Year
Spectrum Analyzer	HP	8592L	3826A01204	March 5, 2012	1 Year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	НР	LaserJet 2200	JPKGC19982	N/A	N/A

Figure 14 - Test Instrumentation Used

6.5 Field Strength Calculation

The field strength is calculated directly by the EMI Receiver software, and a "Correction Factors" data disk, using the following equation:

$$[dB\mu\nu/m]\ FS\ =\ RA\ +\ AF\ +\ CF$$

FS: Field Strength [dB\(\mu\)v/m]

RA: Receiver Amplitude [dBµv]

AF: Receiving Antenna Correction Factor [dB/m]

CF: Cable Attenuation Factor [dB]



7. Band Edge Attenuation

7.1 Test Specification

F.C.C., Part 15, Subpart C, Section 15.249(e)

7.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3. The E.U.T. was placed on a non-conductive table, 0.8 meters above the O.A.T.S. ground plane.

The EMI receiver was set to the E.U.T. Fundamental Frequency and Peak Detection. The turntable and antenna mast were adjusted for maximum level reading on the EMI receiver. The measurement was performed for vertical and horizontal polarizations of the test antenna.

7.3 Test Results

JUDGEMENT: Passed by 0.5 dB

The EUT met the FCC Part 15, Subpart C, Section 15.249(e) specification requirements.

See additional details in Figure 15 to Figure 17.

TEST PERSONNEL:

Tester Signature: _____ Date: 24.07.12

Typed/Printed Name: A. Sharabi



Band Edge Attenuation

E.U.T Description Wireless Self-Powered

Branch-Circuit Level Current

Sensor

Model Number PAN-1-2-225-US Serial Number: Not Designated

Specification: F.C.C., Part 15, Subpart C 15.249(e)

Freq. (MHz)	Reading (dBc)	Specification (dBc)	Margin (dB)
902.0	-50.5	50	-0.5
928.0	-53.2	50	-3.2

Figure 15. Band Edge Attenuation



Band Edge Attenuation

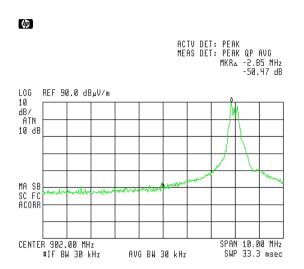


Figure 16. Band Edge Attenuation

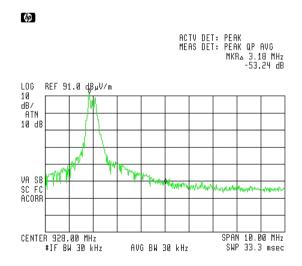


Figure 17. Band Edge Attenuation



7.4 Test Instrumentation Used, Band Edge Attenuation

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Period
EMI Receiver	НР	85422E	3906A00276	December 12, 2011	1Year
RF Filter Section	HP	85420E	3705A00248	December 12, 2011	1Year
Antenna Log Periodic	ARA	LPD- 2010/A	1038	March 23, 2012	1 Year
Antenna Mast	ARA	AAM-4A	1001	N/A	N/A
Turntable	ARA	ART-1001/4	1001	N/A	N/A
Mast & Table Controller	ARA	ACU-2/5	1001	N/A	N/A
Printer	HP	LaserJet 2200	JPKGC19982	N/A	N/A

Figure 18 -Test Instrumentation Used



8. APPENDIX A - CORRECTION FACTORS

8.1 Correction factors for

CABLE

from EMI receiver to test antenna at 3 meter range.

FREQUENCY	CORRECTION FACTOR
(MHz)	(dB)
10.0	0.3
20.0	
	0.6
30.0	0.8
40.0	0.9
50.0	1.1
60.0	1.2
70.0	1.3
80.0	1.4
90.0	1.6
100.0	1.7
150.0	2.0
200.0	2.3
250.0	2.7
300.0	3.1
350.0	3.4
400.0	3.7
450.0	4.0
500.0	4.3
600.0	4.7
700.0	5.3
800.0	5.9
900.0	6.3
	6.7
1000.0	0./

FREQUENCY	CORRECTION FACTOR
(MHz)	(dB)
1200.0 1400.0 1600.0 1800.0 2000.0 2300.0 2600.0 2900.0	7.3 7.8 8.4 9.1 9.9 11.2 12.2
2,00.0	13.0

- 1. The cable type is RG-214.
- 2. The overall length of the cable is 27 meters.
- 3. The above data is located in file 27MO3MO.CBL on the disk marked "Radiated Emission Tests EMI Receiver".



8.2 Correction factors for CABLE from EMI receiver to test antenna

to test antenna at 3 meter range.

EDECLIENCY	CORRECTION
FREQUENCT	FACTOR
(GHz)	(dB)
1.0	1.2
2.0	1.6
3.0	2.0
4.0	2.4
5.0	3.0
6.0	3.4
7.0	3.8
8.0	4.2
9.0	4.6
10.0	5.0
12.0	5.8

- 1. The cable type is RG-8.
- 2. The overall length of the cable is 10 meters.



8.3 Correction factors for CABLE from spectrum analyzer to test antenna above 2.9 GHz

	-		
FREQUENCY	CORRECTION FACTOR	FREQUENCY	CORRECTION FACTOR
(GHz)	(dB)	(GHz)	(dB)
1.0	1.9	14.0	9.1
2.0	2.7	15.0	9.5
3.0	3.5	16.0	9.9
4.0	4.2	17.0	10.2
5.0	4.9	18.0	10.4
6.0	5.5	19.0	10.7
7.0	6.0	20.0	10.9
8.0	6.5	21.0	11.2
9.0	7.0	22.0	11.6
10.0	7.5	23.0	11.9
11.0	7.9	24.0	12.3
12.0	8.3	25.0	12.6
13.0	8.7	26.0	13.0

- 1. The cable type is SUCOFLEX 104 E manufactured by SUHNER.
- 2. The cable is used for measurements above 2.9 GHz.
- 3. The overall length of the cable is 10 meters.



8.4 Correction factors for LOG PERIODIC ANTENNA Type LPD 2010/A at 3 and 10 meter ranges.

Distance of 3 meters

Distance of	t tilleters
EDEOLIENCY	
FREQUENCY	AFE
(MHz)	(dB/m)
200.0	9.1
250.0	10.2
300.0	12.5
400.0	15.4
500.0	16.1
600.0	19.2
700.0	19.4
800.0	19.9
900.0	21.2

Distance of 10 meters

FREQUENCY	AFE
(MHz)	(dB/m)
200.0	9.0
250.0	10.1
300.0	11.8
400.0	15.3
500.0	15.6
600.0	18.7
700.0	19.1
800.0	20.2
900.0	21.1
1000.0	23.2

NOTES:

1000.0

1. Antenna serial number is 1038.

23.5

- 2. The above lists are located in file number 38M3O.ANT for a 3 meter range, and file number 38M100.ANT for a 10 meter range.
- 3. The files mentioned above are located on the disk marked "Radiated Emission Test EMI Receiver".



8.5 Correction factors for

Type SAS-200/511 at 3 meter range.

FREQUENCY	
	FACTOR
(GHz)	(dB)
1.0	24.9
1.5	27.8
2.0	29.9
2.5	31.2
3.0	32.8
3.5	33.6
4.0	34.3
4.5	35.2
5.0	36.2
5.5	36.7
6.0	37.2
6.5	38.1

FREQUENCY	ANTENNA
	FACTOR
(GHz)	(dB)
7.0	38.6
7.5	39.2
8.0	39.9
8.5	40.4
9.0	40.8
9.5	41.1
10.0	41.7
10.5	42.4
11.0	42.5
11.5	43.1
12.0	43.4
12.5	44.4
13.0	44.6

- 1. Antenna serial number is 253.
- 2. The above lists are located in file number SAS3M0.ANT for a 3 meter range.
- 3. The files mentioned above are located on the disk marked "Antenna Factors".



8.6 Correction factors for BICONICAL ANTENNA Type BCD-235/B, at 3 meter range

FREQUENCY	AFE
(MHz)	(dB/m)
20.0	19.4
30.0	14.8
40.0	11.9
50.0	10.2
60.0	9.1
70.0	8.5
80.0	8.9
90.0	9.6
100.0	10.3
110.0	11.0
120.0	11.5
130.0	11.7
140.0	12.1
150.0	12.6
160.0	12.8
170.0	13.0
180.0	13.5
190.0	14.0
200.0	14.8
210.0	15.3
220.0	15.8
230.0	16.2
240.0	16.6
250.0	17.6
260.0	18.2
270.0	18.4
280.0	18.7
290.0	19.2
300.0	19.9
310	20.7
320	21.9
330	23.4
340	25.1
350	27.0

- 1. Antenna serial number is 1041.
- 2. The above list is located in file 19BC10M1.ANT on the disk marked "Radiated Emissions Tests EMI Receiver".



8.7 Correction factors for ACTIVE LOOP ANTENNA Model 6502 S/N 9506-2950

	Magnetic	Electric
FREQUENCY	Antenna	Antenna
	Factor	Factor
(MHz)	(dB)	(dB)
.009	-35.1	16.4
.010	-35.7	15.8
.020	-38.5	13.0
.050	-39.6	11.9
.075	-39.8	11.8
.100	-40.0	11.6
.150	-40.0	11.5
.250	-40.0	11.6
.500	-40.0	11.5
.750	-40.1	11.5
1.000	-39.9	11.7
2.000	-39.5	12.0
3.000	-39.4	12.1
4.000	-39.7	11.9
5.000	-39.7	11.8
10.000	40.2	11.3
15.000	-40.7	10.8
20.000	-40.5	11.0
25.000	-41.3	10.2
30.000	42.3	9.2