CERTIFICATION TEST REPORT

Report Number. : 11692860-E1V1

Applicant	:	ANELTO 6270 MORNINGSTAR DR SUITE 100 THE COLONY, TX 75056 U.S.A.
Model	:	ANH0217
FCC ID	:	2AGPI-ANH0217
IC ID	:	20951-ANH0217
EUT Description	:	In-Home Cellular PERS
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 9 INDUSTRY CANADA RSS-GEN ISSUE 4

Date of Issue:
Wednesday, April 05, 2017

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NVLAP LAB CODE 200065-0

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	04/05/17	Initial Issue	C. Vergonio

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: ANELTO
6270 MORNINGSTAR DR SUITE 100
THE COLONY, TX 75056 U.S.A.

EUT DESCRIPTION: In-Home Cellular PERS

MODEL: ANH0217

SERIAL NUMBER: DEV0031

DATE TESTED: APRIL 03 - 05, 2017

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 9	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:

Charles Vergonio
WiSE Project Lead
UL Verification Services Inc.

Tested By:

Jonathan Hsu
WiSE Engineer
UL Verification Services Inc.

2. SUMMARY OF TESTING

2.1. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☒ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 22541-1)
☐ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 22541-2)
☒ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 22541-3)
	☐ Chamber G(IC: 22541-4)
	☐ Chamber H(IC: 22541-5)

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://ts.nist.gov/standards/scopes/2000650.htm.

2.2. SUMMARY TABLE

FCC Part Section	RSS Section (s)	Test Description	Test Limit	Test Condition	Test Result
15.207	RSS-GEN 8.8	AC Power Line conducted emission	Section 6	Conducted	Pass
15.249 (c)	RSS-210	Field Strength of Fundamental	< 50mV/m	Radiated	Pass
15.205, 15.209, 15.249	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass

2.3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-210 Issue 9.

2.4. CALIBRATION AND UNCERTAINTY

MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance,1000 to 18000 MHz	4.32 dB
Radiated Disturbance,18000 to 26000 MHz	4.45 dB
Radiated Disturbance,26000 to 40000 MHz	5.24 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5. MEASUREMENT METHOD

On time and duty cycle: ANSI C63.10-2013, Section 11.6.

Radiated emissions: ANSI C63.10-2013, Sections 6.5 and 6.6.

Occupied bandwidth (99% dB): ANSI C63.10-2013, Sections 6.9.3.

AC Power Line Conducted Emissions: ANSI C63.10-2013 Section 6.2.

2.6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	**Manufacturer**	**Model**	**T Number**	**Cal Date**	**Cal Due**
PXA Spectrum Analyzer, 3Hz to 44GHz	Agilent	N9030A	905	01/11/17	01/11/18
PXA Spectrum Analyzer, 3Hz to 44GHz	Agilent	N9030A	908	04/13/16	04/13/17
Horn Antenna, 1-18GHz	ETS Lindgren	3117	346	01/30/17	01/30/18
Antenna, Broadband Hybrid 30MHz to 2000MHz	Sunol Sciences	JB1	408	11/10/16	11/10/17
Loop Antenna	EMCO	6502	1616	12/12/16	12/12/17
Amplifier, 1-26.5GHz	Miteq	AFS42-00101800-25-S-42	1165	08/01/16	08/01/17
Amplifier, 1 to 8GHz	Miteq	AMF-4D-01000800-30-29P	1170	04/28/16	04/28/17
Amplifier, 10KHz to 1GHz, 32dB	Keysight	8447D	300	11/10/16	11/10/17
EMI Receiver	Rohde & Schwarz	ESR-EMI	1436	12/19/16	12/19/17
LISN	FISCHER	FCC-LISN-50/250-25-2-01	1310	06/08/16	06/08/17

Test Software List			
Description	**Manufacturer**	**Model**	**Version**
Radiated Software	UL	UL EMC	Ver 9.5 Apr 26, 2016
Antenna Port Software	UL	UL RF	Ver 6.0 Jan 18, 2017

3. EQUIPMENT UNDER TEST

3.1. EUT DESCRIPTION

This device is an In-Home Cellular PERS which is operating in 906 MHz frequency.

3.2. MAXIMUM RADIATED E-FIELD STRENGTH

The transmitter has a maximum Peak E-field as follows:

Frequency Range (MHz)	Output PK E-Field Strength (dBuV/m)
906	89.44

3.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a tuned dipole antenna, with a maximum gain of -2dBi.

3.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was R1.0

3.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

All final radiated testing was performed with the EUT in a desktop orientation.

3.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Cincon Electronics	TRG1509-A	NA	NA

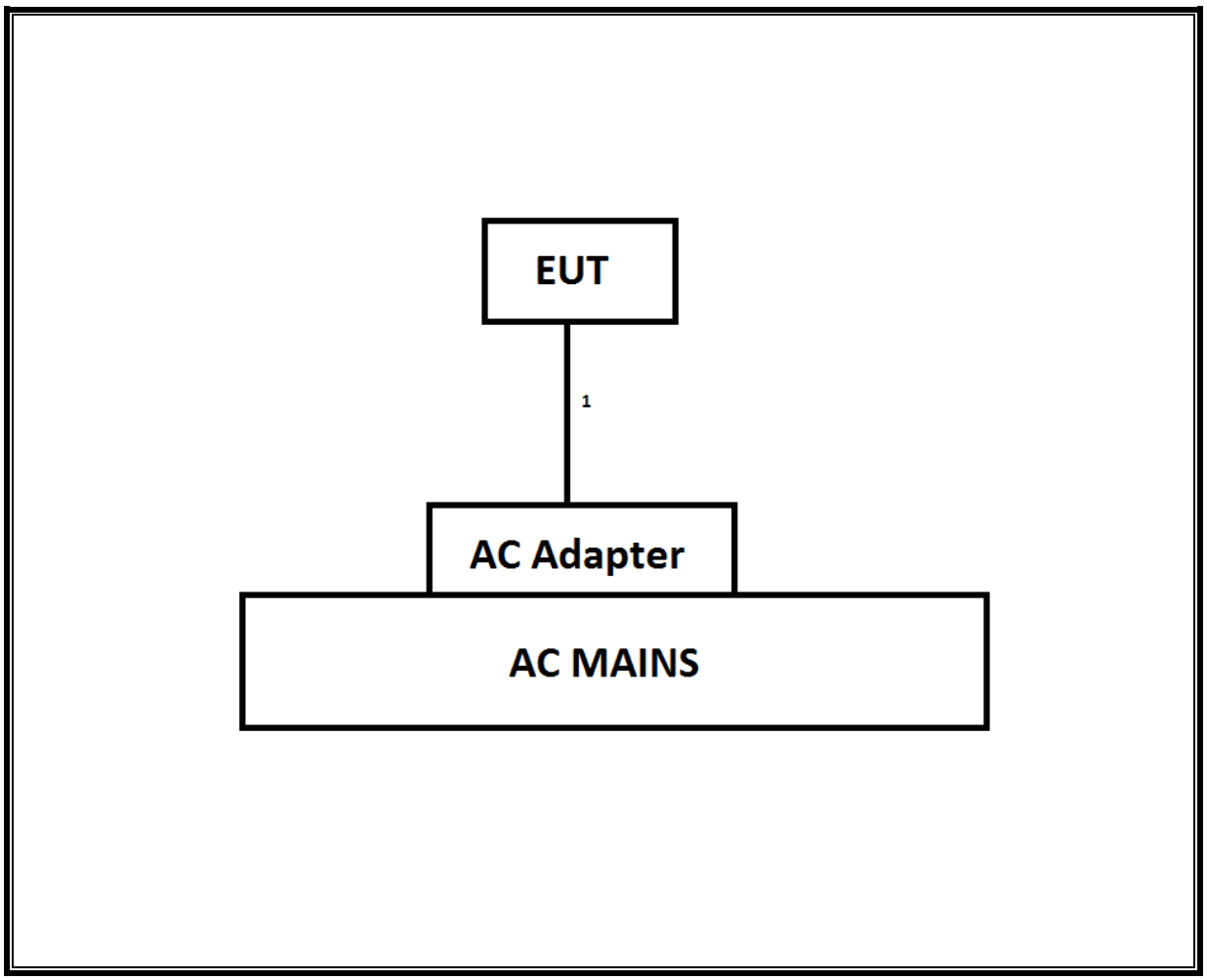
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC/DC	1	2-Prong	Unshielded	2	

TEST SETUP

Set the EUT to TX Continuous mode, and EUT was connected to an AC adapter to transmit a continuous RF signal.

SETUP DIAGRAM FOR RADIATED TESTS



4. ANTENNA PORT TEST RESULTS

4.1. ON TIME, DUTY CYCLE

LIMITS

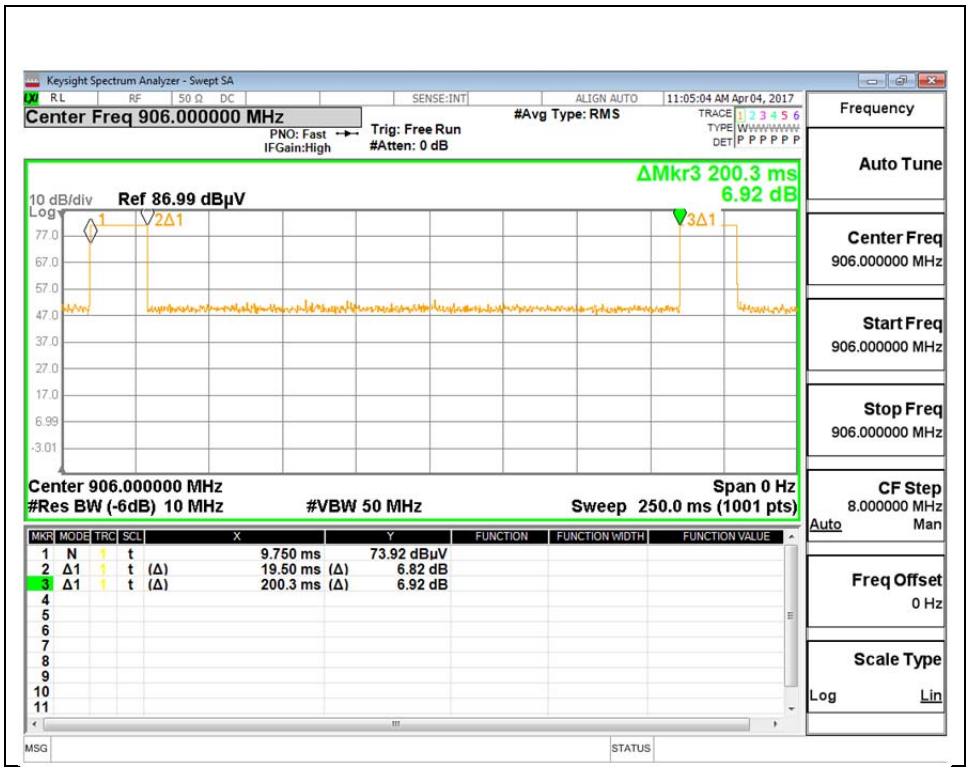
None; for reporting purposes only.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
906MHz	19.500	200.300	0.097	9.74%	10.12	0.051

DUTY CYCLE PLOTS

DUTY CYCLE PLOT



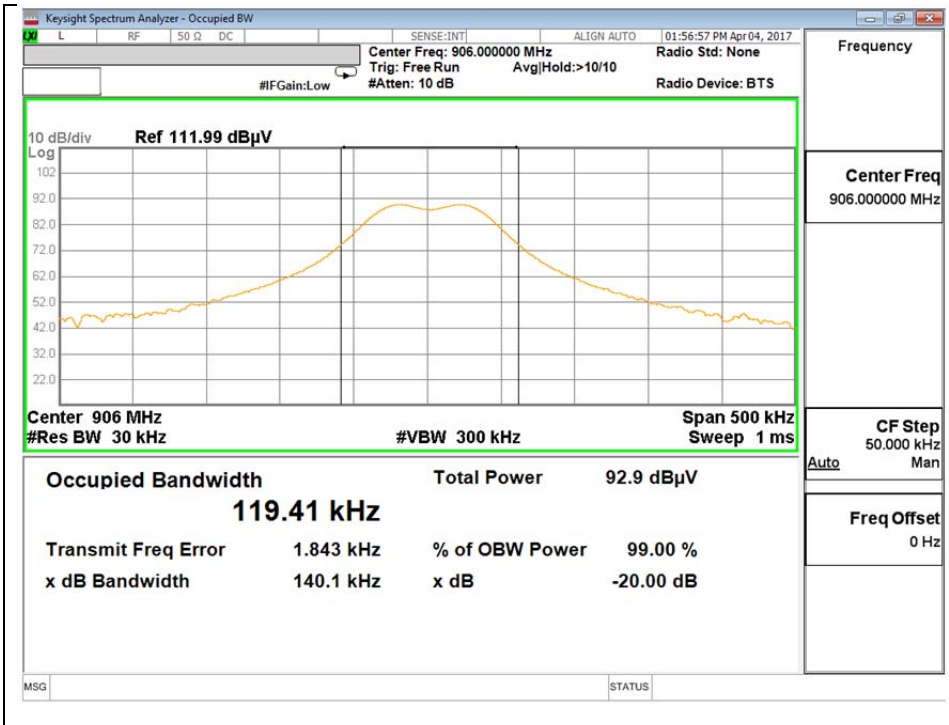
4.2. 20 dB BANDWIDTH AND 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Frequency (MHz)	20 dB Bandwidth (kHz)	99% Bandwidth (kHz)
906	140.1	119.41



906 MHz

5. RADIATED TEST RESULTS

5.1. LIMITS AND PROCEDURE

LIMITS

FCC 15.249
IC RSS-210
IC RSS-GEN Clause 8.9 (Transmitter)
IC RSS-GEN Clause 7 (Receiver)

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHZ, and 24.0–24.25 GHz.
(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100 **	3
88–216	150 **	3
216–960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and add duty cycle factor for average measurements. Note: The pre-scan measurements above 1GHz the VBW is set to 30 kHz.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

No non-compliance noted:

5.2. TRANSMITTER ABOVE 1 GHz

5.2.1. FUNDAMENAL FREQUENCY RADIATED EMISSION

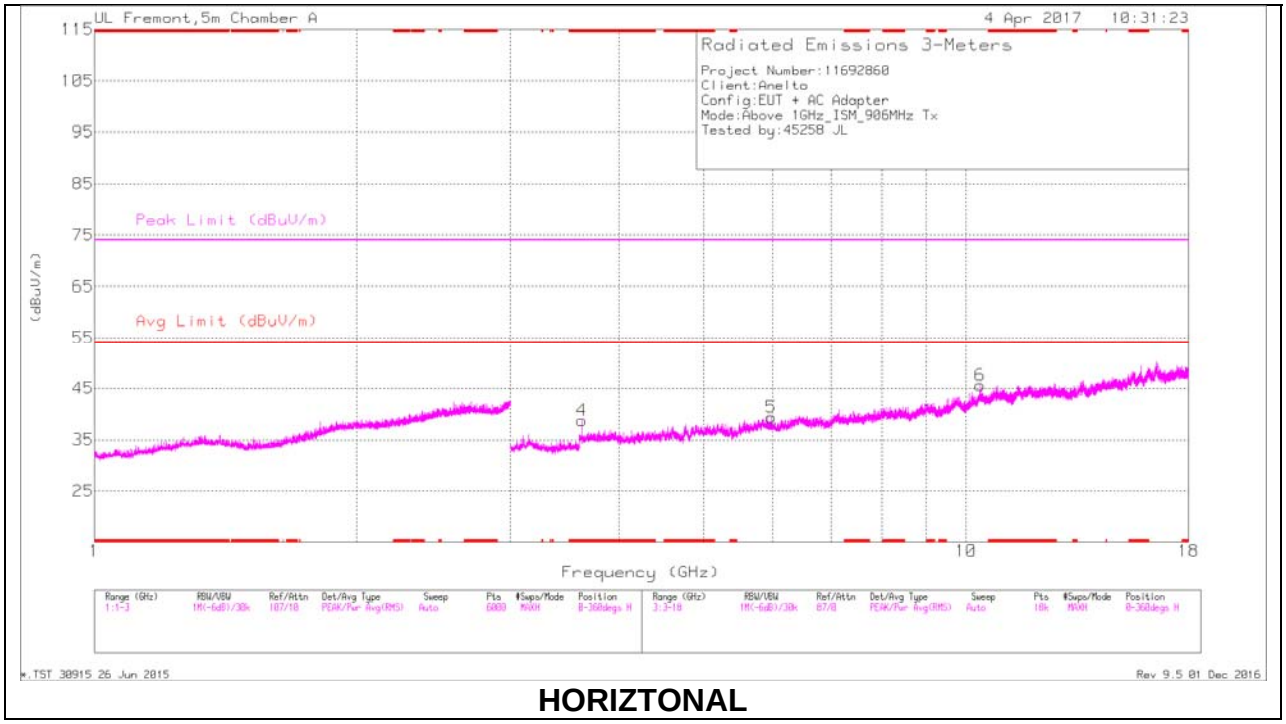
Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
905.976	85.34	Pk	26.2	-22.1	0	89.44	94	-4.56	313	132	V
906.016	83.18	Pk	26.2	-22.1	0	87.28	94	-6.72	48	149	H

Pk - Peak detector

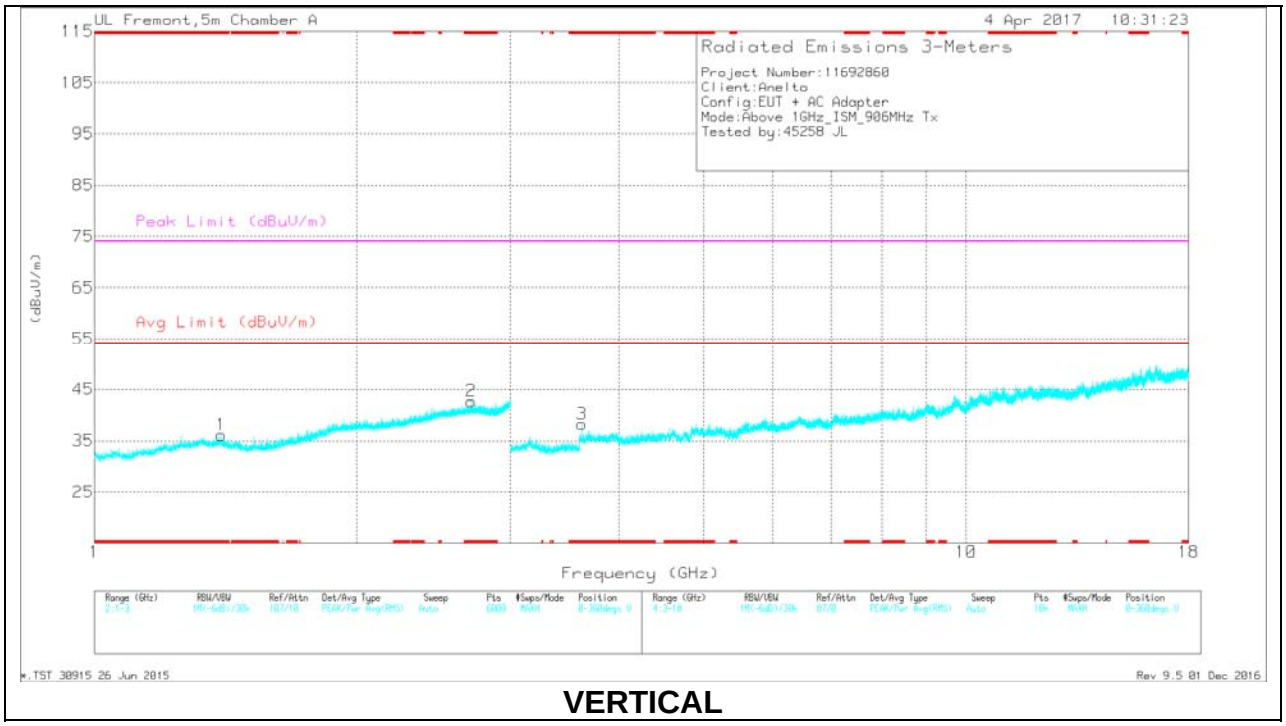
Note: Peak detector was used as an alternative to CISPR quasi-peak measurements for the fundamental signal level.

5.2.2. HARMONICS AND SPURIOUS EMISSIONS (906 MHz)

RESULTS



HORIZTONAL



VERTICAL

DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.399	30.62	Pk	29.2	-23.7	0	36.12	-	-	74	-37.88	0-360	200	V
2	* 2.704	32.97	Pk	32.7	-23	0	42.67	-	-	74	-31.33	0-360	200	V
4	* 3.623	36.18	Pk	33.1	-30.5	0	38.78	-	-	74	-35.22	0-360	101	H
3	* 3.623	35.65	Pk	33.1	-30.5	0	38.25	-	-	74	-35.75	0-360	101	V
5	5.979	31.23	Pk	35.2	-27.1	0	39.33	-	-	-	-	0-360	199	H
6	10.377	28.03	Pk	37.4	-19.8	0	45.63	-	-	-	-	0-360	101	H

* - indicates frequency in CFR15.205/IC8.10 RSS-Restricted Band
Pk - Peak detector

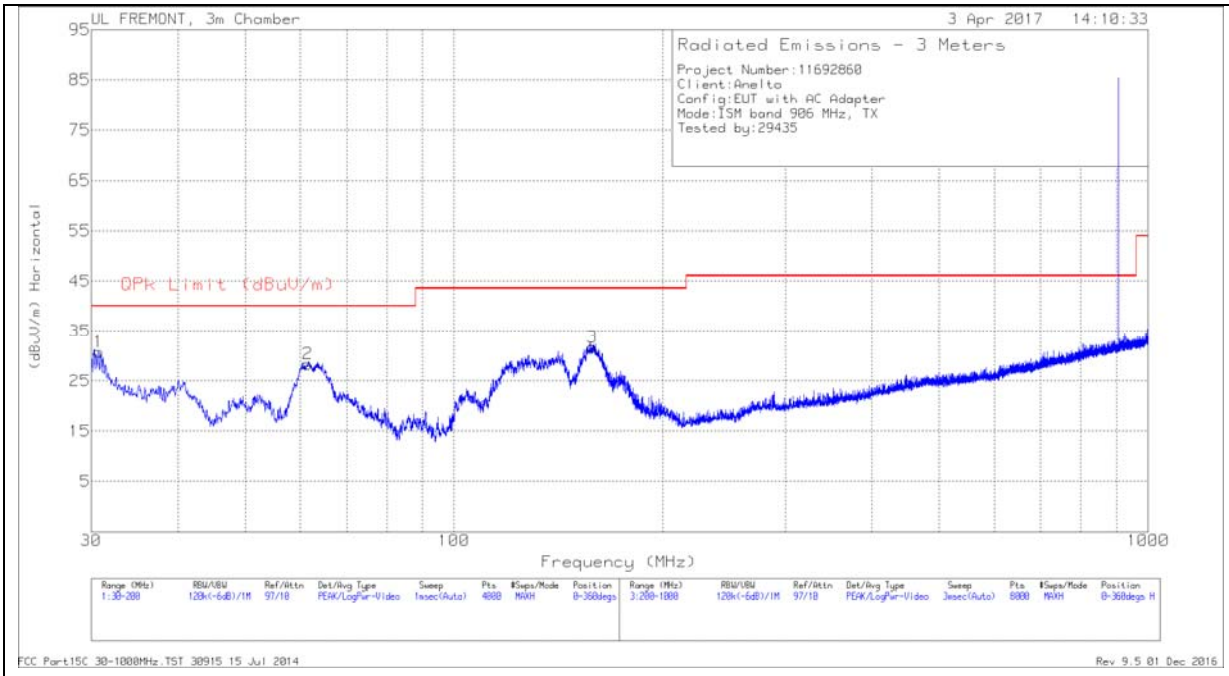
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.397	35.86	PK2	29.2	-23.8	0	41.26	-	-	74	-32.74	327	155	V
* 1.398	24.46	MAv1	29.2	-23.8	10.11	39.97	54	-14.03	-	-	327	155	V
* 2.705	37.68	PK2	32.7	-23.1	0	47.28	-	-	74	-26.72	287	186	V
* 2.703	25.99	MAv1	32.7	-23.1	10.11	45.7	54	-8.3	-	-	287	186	V
* 3.623	39.66	PK2	33.1	-30.5	0	42.26	-	-	74	-31.74	254	235	H
* 3.624	28.51	MAv1	33.1	-30.5	10.11	41.22	54	-12.78	-	-	254	235	H
* 3.624	40.54	PK2	33.1	-30.5	0	43.14	-	-	74	-30.86	79	229	V
* 3.624	31.44	MAv1	33.1	-30.5	10.11	44.15	54	-9.85	-	-	79	229	V
5.979	37.41	PK2	35.2	-27.1	0	45.51	-	-	74	-28.46	216	275	H
5.979	25.59	MAv1	35.2	-27.1	10.11	43.8	54	-10.2	-	-	216	275	H
10.377	22.08	MAv1	37.4	-19.8	10.11	49.79	54	-4.21	-	-	239	311	H
10.378	32.88	PK2	37.4	-19.8	0	50.48	-	-	74	-23.52	239	311	H

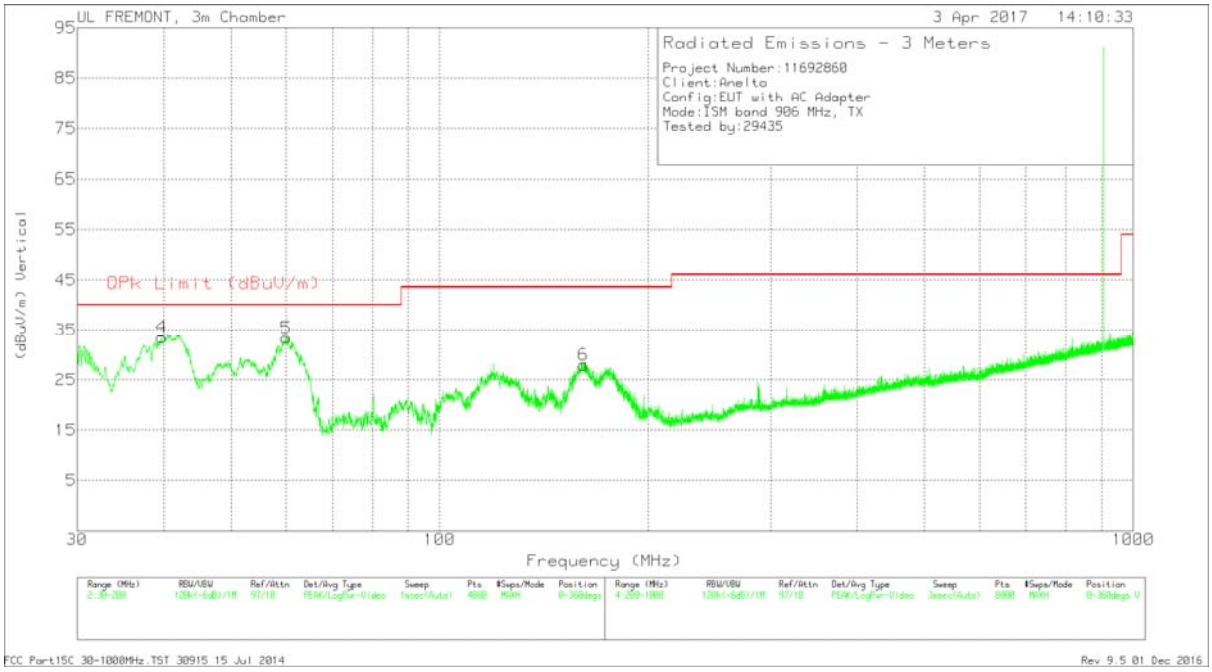
* - indicates frequency in CFR15.205/IC8.10 RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

5.2.3. TRANSMITTER BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz



HORIZONTAL



VERTICAL

Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.7652	33.32	Pk	24.7	-27.2	30.82	40	-9.18	0-360	100	H
4	39.735	42.57	Pk	18.1	-27.1	33.57	40	-6.43	0-360	100	V
5	60.0978	48.67	Pk	11.5	-26.8	33.37	40	-6.63	0-360	100	V
2	61.5857	43.44	Pk	11.7	-26.8	28.34	40	-11.66	0-360	300	H
3	158.2132	40.92	Pk	16.4	-25.6	31.72	43.52	-11.8	0-360	100	H
6	161.274	37.17	Pk	16.3	-25.5	27.97	43.52	-15.55	0-360	100	V

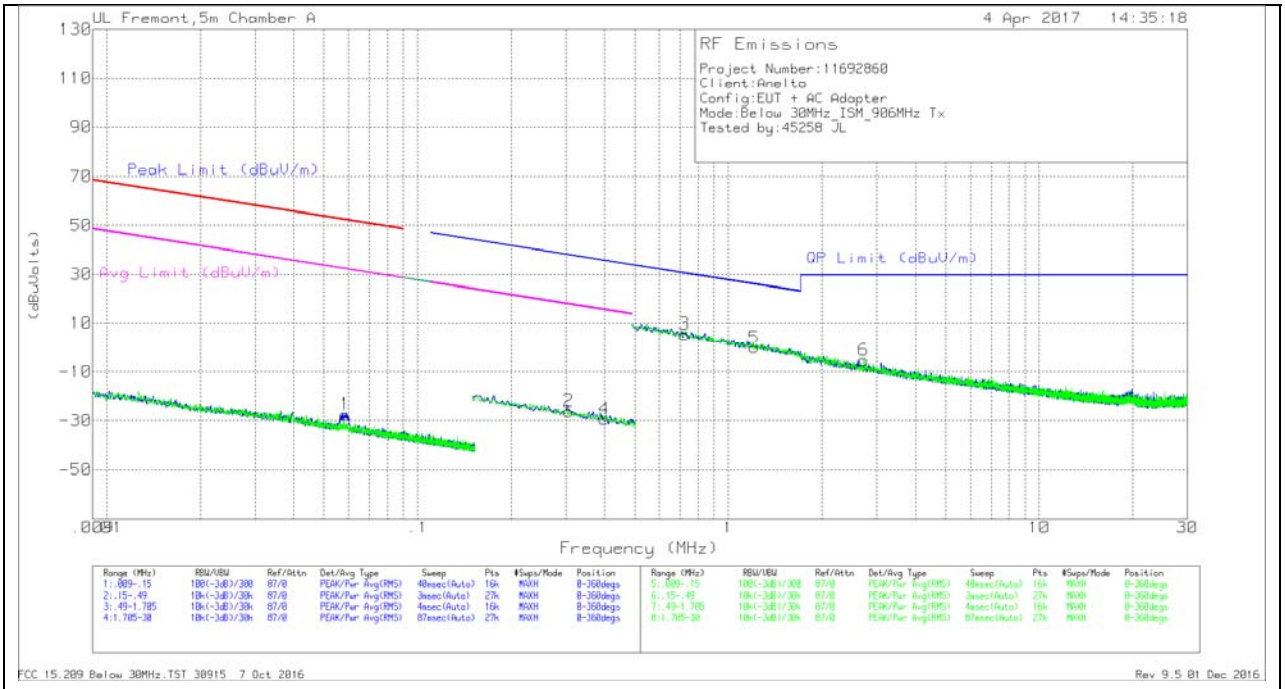
Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
39.9433	38.97	Qp	17.9	-27.1	29.77	40	-10.23	325	100	V
59.8904	38.75	Qp	11.5	-26.8	23.45	40	-16.55	69	164	V

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 9 kHz TO 30 MHz



NOTE: KDB 937606 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.05855	40.15	Pk	12.1	.1	-80	-27.65	52.24	-79.89	32.24	-59.89	-	-	-	-	0-360
2	.30623	41.97	Pk	11.7	.1	-80	-26.23	-	-	-	-	37.89	-64.12	17.89	-44.12	0-360
4	.3993	38.91	Pk	11.7	.1	-80	-29.29	-	-	-	-	35.58	-64.87	15.58	-44.87	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.72309	33.66	Pk	11.8	.1	-40	5.56	30.43	-24.87	0-360
5	1.21154	27.79	Pk	11.8	.2	-40	-.21	25.96	-26.17	0-360
6	2.72837	22.5	Pk	11.8	.3	-40	-5.4	29.5	-34.9	0-360

Pk - Peak detector

6. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

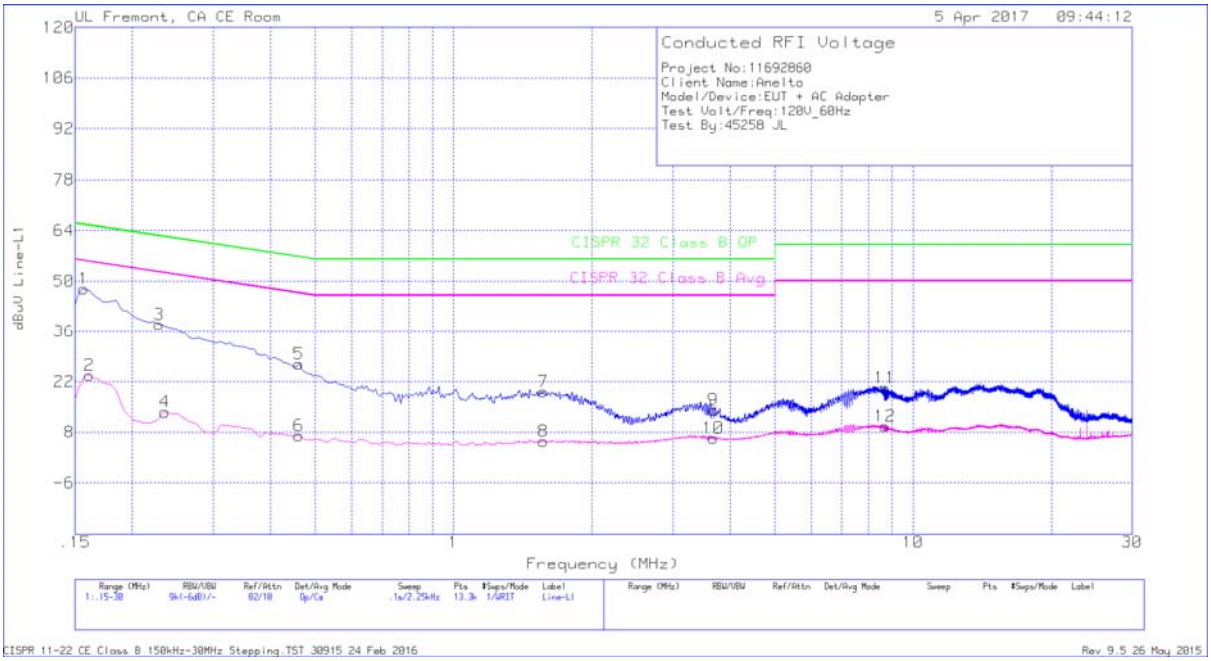
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

LINE 1 RESULTS

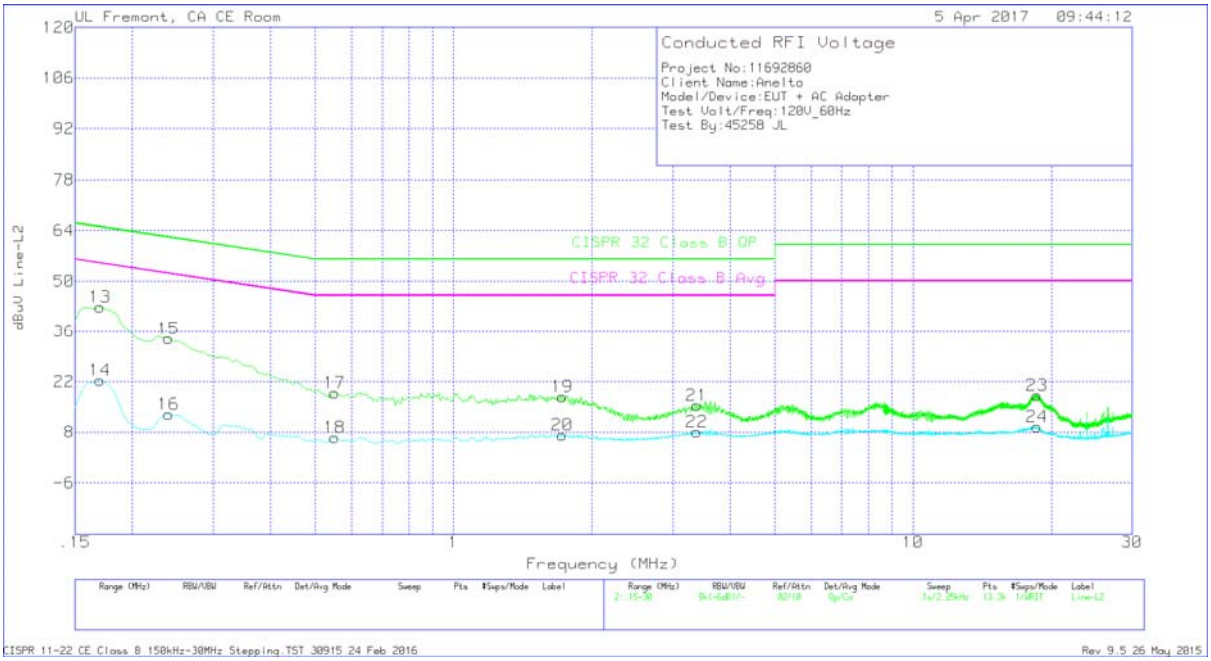


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CISPR 32 Class B QP	Margin (dB)	CISPR 32 Class B Avg	Margin (dB)
1	.15675	37.64	Qp	0	.1	10.1	47.84	65.63	-17.79	-	-
2	.16125	13.52	Ca	0	.1	10.1	23.72	-	-	55.4	-31.68
3	.22875	27.78	Qp	0	.1	10.1	37.98	62.49	-24.51	-	-
4	.2355	3.39	Ca	0	.1	10.1	13.59	-	-	52.25	-38.66
5	.4605	16.72	Qp	0	.1	10.1	26.92	56.68	-29.76	-	-
6	.4605	-3.15	Ca	0	.1	10.1	7.05	-	-	46.68	-39.63
7	1.56975	9.1	Qp	0	.1	10.1	19.3	56	-36.7	-	-
8	1.56975	-4.65	Ca	0	.1	10.1	5.55	-	-	46	-40.45
9	3.67575	4.04	Qp	0	.1	10.1	14.24	56	-41.76	-	-
10	3.67575	-3.83	Ca	0	.1	10.1	6.37	-	-	46	-39.63
11	8.69888	9.92	Qp	0	.2	10.2	20.32	60	-39.68	-	-
12	8.6955	-.65	Ca	0	.2	10.2	9.75	-	-	50	-40.25

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CISPR 32 Class B QP	Margin (dB)	CISPR 32 Class B Avg	Margin (dB)
13	.17025	32.62	Qp	0	.1	10.1	42.82	64.95	-22.13	-	-
14	.17025	12.19	Ca	0	.1	10.1	22.39	-	-	54.95	-32.56
15	.24	23.82	Qp	0	.1	10.1	34.02	62.1	-28.08	-	-
16	.24	2.73	Ca	0	.1	10.1	12.93	-	-	52.1	-39.17
17	.5505	8.76	Qp	0	.1	10.1	18.96	56	-37.04	-	-
18	.5505	-3.63	Ca	0	.1	10.1	6.57	-	-	46	-39.43
19	1.725	7.72	Qp	0	.1	10.1	17.92	56	-38.08	-	-
20	1.72388	-3.03	Ca	0	.1	10.1	7.17	-	-	46	-38.83
21	3.3855	5.24	Qp	0	.1	10.1	15.44	56	-40.56	-	-
22	3.38775	-2.16	Ca	0	.1	10.1	8.04	-	-	46	-37.96
23	18.63825	7.58	Qp	0	.3	10.3	18.18	60	-41.82	-	-
24	18.636	-1.17	Ca	0	.3	10.3	9.43	-	-	50	-40.57

Qp - Quasi-Peak detector

Ca - CISPR average detection