



CERTIFICATION TEST REPORT

Report Number. : 12775491-E1V2

Applicant : ANELTO INC.
6270 MORNINGSTAR DRIVE
SUITE 100
THE COLONY, TX 75056, U.S.A.

Model : ANH0319

FCC ID : 2AGPI-ANH0319

IC : 20951-ANH0319

EUT Description : CELLULAR PERSONAL EMERGENCY RESPONSE SYSTEM

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS - 210 ISSUE 9
INDUSTRY CANADA RSS - GEN ISSUE 5

Date Of Issue:
August 13, 2019

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



NVLAP LAB CODE 200065-0 (FREMONT)

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/2/2019	Initial Issue	--
V2	8/13/2019	Updated Section 8.2 verbiage	Kenneth Mak

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT	7
5.2. MAXIMUM FUNDAMENTAL FIELD STRENGTH	7
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	7
5.4. SOFTWARE AND FIRMWARE	7
5.5. WORST-CASE CONFIGURATION AND MODE	7
5.6. DESCRIPTION OF TEST SETUP	8
6. TEST AND MEASUREMENT EQUIPMENT	9
7. MEASUREMENT METHODS	10
8. TEST RESULTS	11
8.1. 20 dB AND 99% BANDWIDTH	11
8.2. RADIATED TEST RESULTS	12
8.2.1. FUNDAMENTAL FREQUENCY RADIATED EMISSION	14
8.2.2. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz	15
8.2.3. WORST-CASE BELOW 30MHz	17
8.2.4. WORST-CASE 30MHz TO 1GHz	18
8.3. AC POWER LINE CONDUCTED EMISSIONS	20
9. SETUP PHOTOS	23

1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: CELLULAR PERSONAL EMERGENCY RESPONSE SYSTEM

MODEL: ANH0319

SERIAL NUMBER: 190312, 190411, 190405

DATE TESTED: APRIL 12, 2019 to JUNE 07, 2019

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Complies
INDUSTRY CANADA RSS-210 Issue 9, Annex B.10	Complies
INDUSTRY CANADA RSS-GEN Issue 5	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

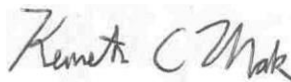
This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This 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 the U.S. government.

Approved & Released For
UL Verification Services Inc. By:



Dan Corona
CONSUMER TECHNOLOGY DIVISION
Operations Leader
UL Verification Services Inc.

Reviewed By:



Kenneth Mak
CONSUMER TECHNOLOGY DIVISION
Test Engineer
UL Verification Services Inc.

2. 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 5, and RSS-210 Issue 9.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, 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	47658 Kato Rd.
☐ Chamber A	☐ Chamber D	☒ Chamber I
☐ Chamber B	☐ Chamber E	☒ Chamber J
☐ Chamber C	☐ Chamber F	☒ Chamber K
	☐ Chamber G	☐ Chamber L
	☐ Chamber H	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code: 2324A.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

4. CALIBRATION AND UNCERTAINTY

4.1. 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.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.52 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.88 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.24 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.37 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.17 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a mobile personal emergency response system with WCDMA, LTE and 906 MHz single channel radio.

5.2. MAXIMUM FUNDAMENTAL FIELD STRENGTH

The transmitter has a maximum peak fundamental field strength as follows:

Frequency Band (MHz)	Output PK E-field Strength (dBuV/m)
906	71.52

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Band (MHz)	Antenna Peak Gain (dBi)
906	-2.0

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 5350CERT.

5.5. WORST-CASE CONFIGURATION AND MODE

All tests were performed with the EUT was set to transmit at the 906MHz frequency with highest output power as worst-case scenario.

The EUT is a mobile device. Therefore, all final radiated testing was performed with the EUT in the charging cradle orientation.

906 MHz and cellular do not transmit simultaneously.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

SUPPORT EQUIPMENT & PERIPHERALS LIST			
Description	Manufacturer	Model	Serial Number/Part Number
AC/DC Adapter	CUI Inc.	SWI5-5-N	SWI5-5-N-MUB

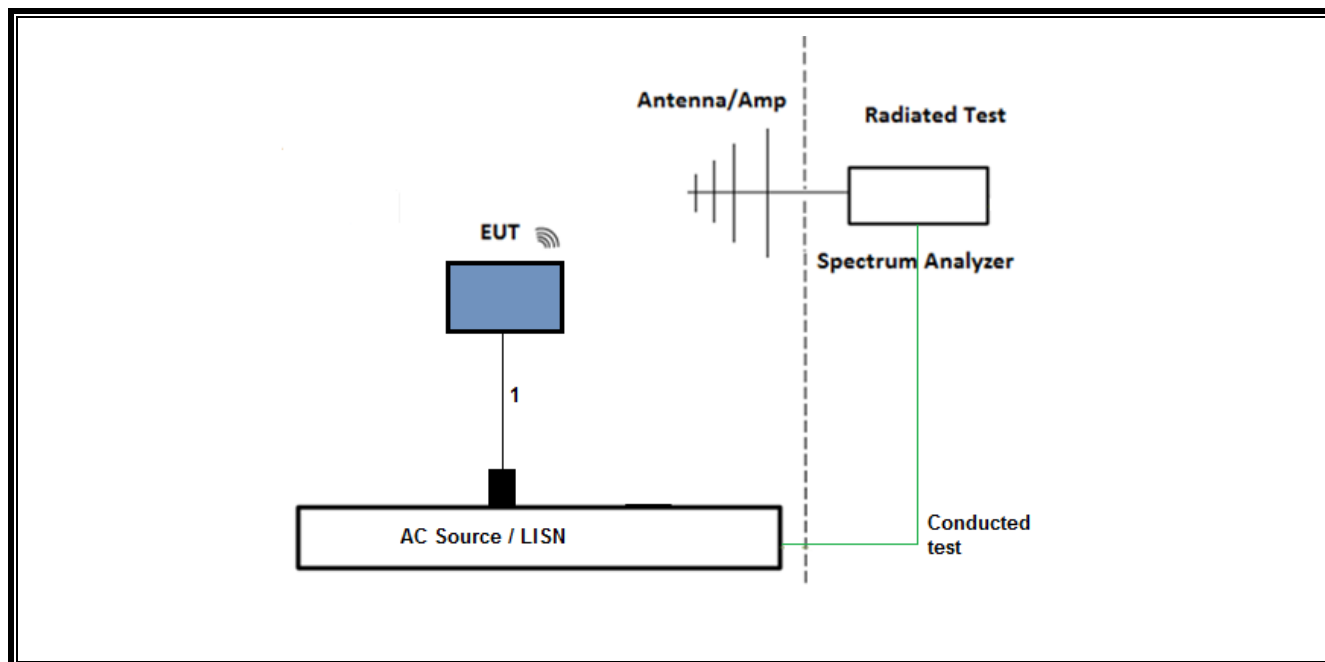
I/O CABLES (RADIATED AND CONDUCTED EMISSIONS)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length m	Remarks
1	AC	1	2-prong	Unshielded	1.2	N/A

TEST SETUP

The EUT was installed in a typical configuration. Refer to the following diagram.

TEST SETUP DIAGRAM



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	Asset	Cal Due
Amplifier 1-8GHz 30dB gain	L3 Narda	AMF-4D-01000800-30-29P	167494	8/1/2019
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179376	2/14/2020
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	PRE0180175	7/9/2019
RF Amplifier, 1-18GHz	MITEQ	AFS42-00101800-25-S-42	171460	8/1/2019
Antenna,BroadBand Hybrid, 30MHz to 3GHz	SunAR rf motion	JB3	PRE0184971	11/13/2019
Antenna, Double Ridge Guide Horn Antenna 700MHz to 18GHz	A.H. SYSTEMS, INC.	SAS-571	PRE0190810	7/10/2019
Amplifier, 1 to 18GHz, 35dB	AMPLICAL	AMP1G18-35	T1569	5/4/2020
Amplifier, 1-7GHz, 24dB	AMPLICAL	AMP1G7-24-27	T1609	5/4/2020
Antenna,Broadband Hybrid, 30MHz to 3GHz	SunAR rf motion	JB3	PRE0184052	10/24/2019
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	175953	12/13/2019
Antenna, Double Ridge Guide Horn Antenna 700MHz to 18GHz	A.H. SYSTEMS, INC.	SAS-571	PRE0190811	7/12/2019
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179367	5/16/2020
Amplifier, 1 to 18GHz, 35dB	AMPLICAL	AMP1G18-35	T1571	5/28/2020
Amplifier, 1-7GHz, 24dB	AMPLICAL	AMP1G7-24-27	T1608	5/28/2020
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	PRE0180174	6/1/2020
Antenna, Broadband Hybrid, 30MHz to 3GHz	SunAR rf motion	JB3	PRE0181575	8/1/2019
Horn Antenna	AR	AMPL-ATH1G18	PRE0189055	4/20/2020
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T907	1/23/2020
Wideband Communication Test Set, Call Box	Rohde & Schwarz (Koeln) GmbH & Co. KG	CMW500	T268	9/20/2019
AC Line Conducted				
EMI Test Receiver	Rohde & Schwarz	ESR	1436	02/14/2020
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2	T24	01/24/2020
LISN	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01	T1310	01/24/2020
AC Power Source	Schaffner	NSG 1007	134	01/23/2020
Signal Conditioner	Schaffner	CCN 1000-1	133	01/23/2020
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2016	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015	

NOTES:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

7. MEASUREMENT METHODS

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.

8. TEST RESULTS

8.1. 20 dB AND 99% BANDWIDTH

LIMITS

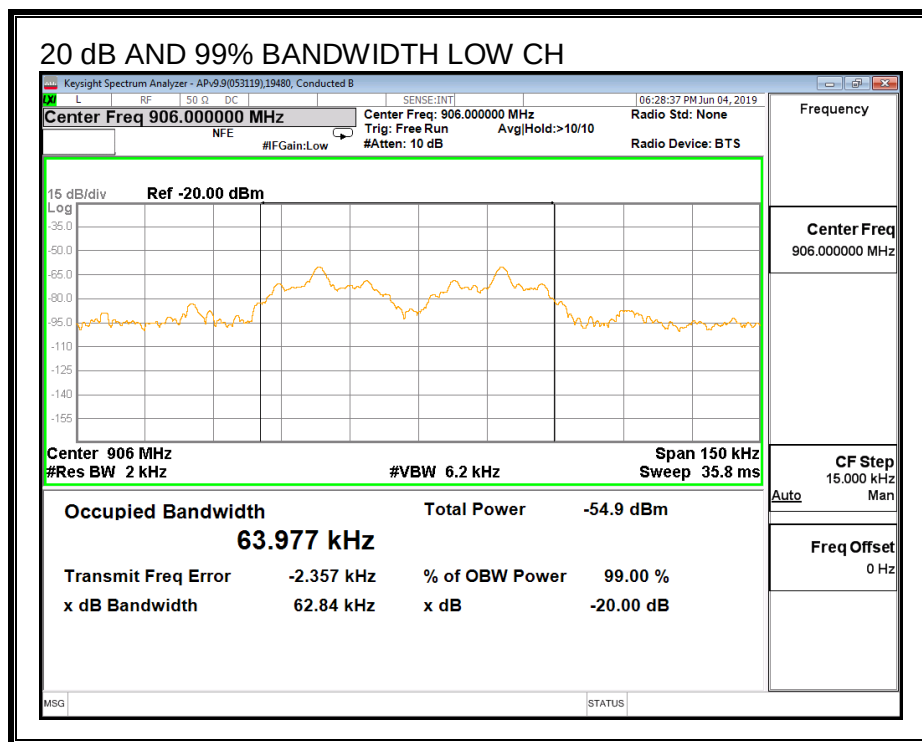
None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 20 dB bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled.

RESULTS

Frequency (MHz)	20 dB Bandwidth (KHz)	99% Bandwidth (KHz)
906	62.84	63.977



8.2. RADIATED TEST RESULTS

LIMITS

FCC 15.249 (a)(d)(e) & 15.209 (a)
IC RSS-210, B.10
IC RSS-GEN Clause 8.9 (Transmitter)

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 @ 3 meter:

Fundamental frequency	Field strength of fundamental at 3 m		Field strength of harmonics at 3 m	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928 MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25 GHz	250	107.95	2500	67.95

(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 Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300m	-
0.490-1.705	24000/F(kHz) @ 30m	-
1.705-30.0	30 @ 30m	-
30 - 88	100**	40**
88 - 216	150**	43.5**
216 - 960	200**	46**
Above 960	500**	54**

**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 measurement below 1GHz; 1.5 m above the ground plane for measurement 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 pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

NOTE: According to ANSI C63.10 Section 6.6 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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.

KDB 414788 OFS and Chamber Correlation Justification

Base 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.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

RESULTS

8.2.1. FUNDAMENTAL FREQUENCY RADIATED EMISSION

DATA

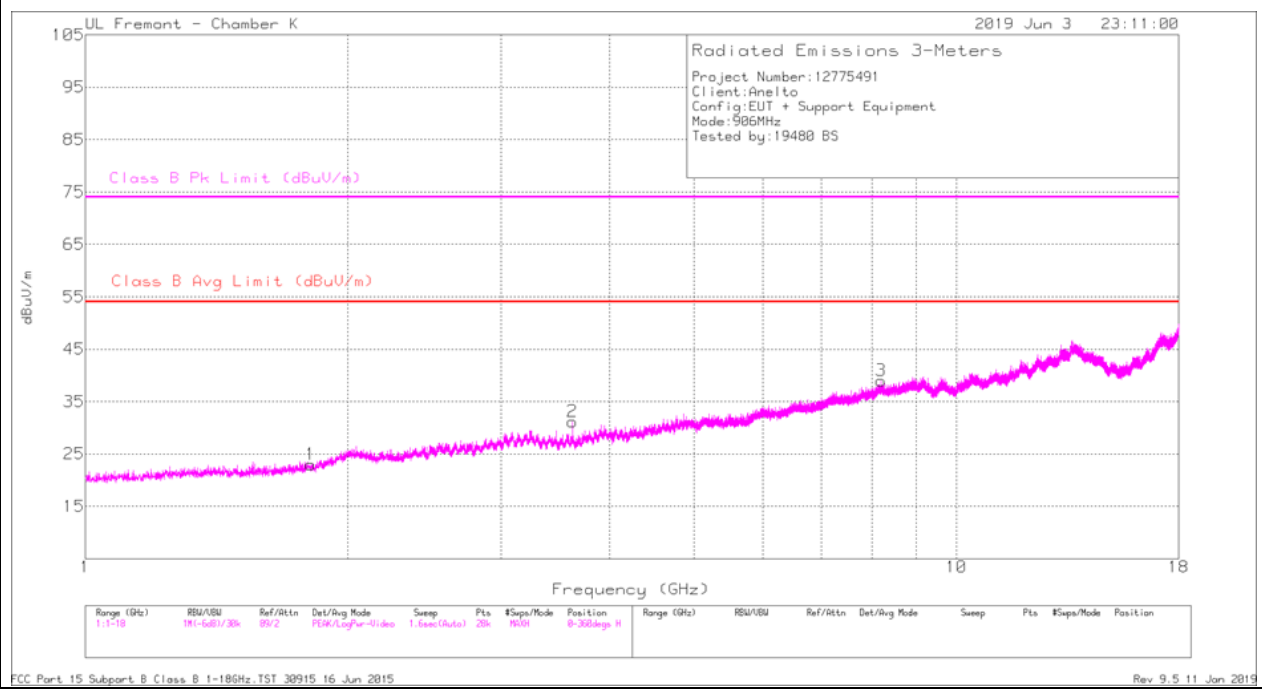
Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg. Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
905.9801	70.32	Pk	28.2	-27	71.52	-	-	114	-42.48	344	261	H
905.9801	54.85	Av	28.2	-27	56.05	94	-37.95	-	-	344	261	H
906.0201	61.43	Pk	28.2	-27	62.63	-	-	114	-51.37	145	177	V
906.0201	12.57	Av	28.2	-27	13.77	94	-80.23	-	-	145	177	V

Pk - Peak detector

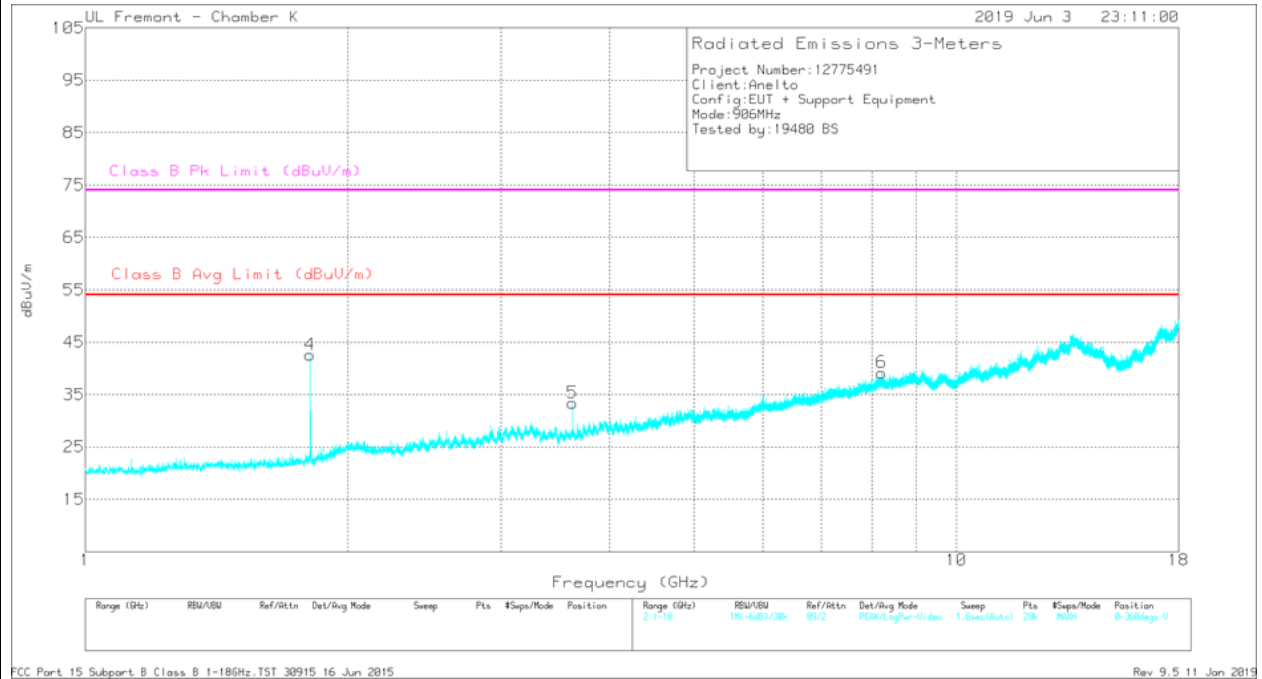
Av - Average detection

8.2.2. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

HORIZONTAL PLOT



VERTICAL PLOT



DATA

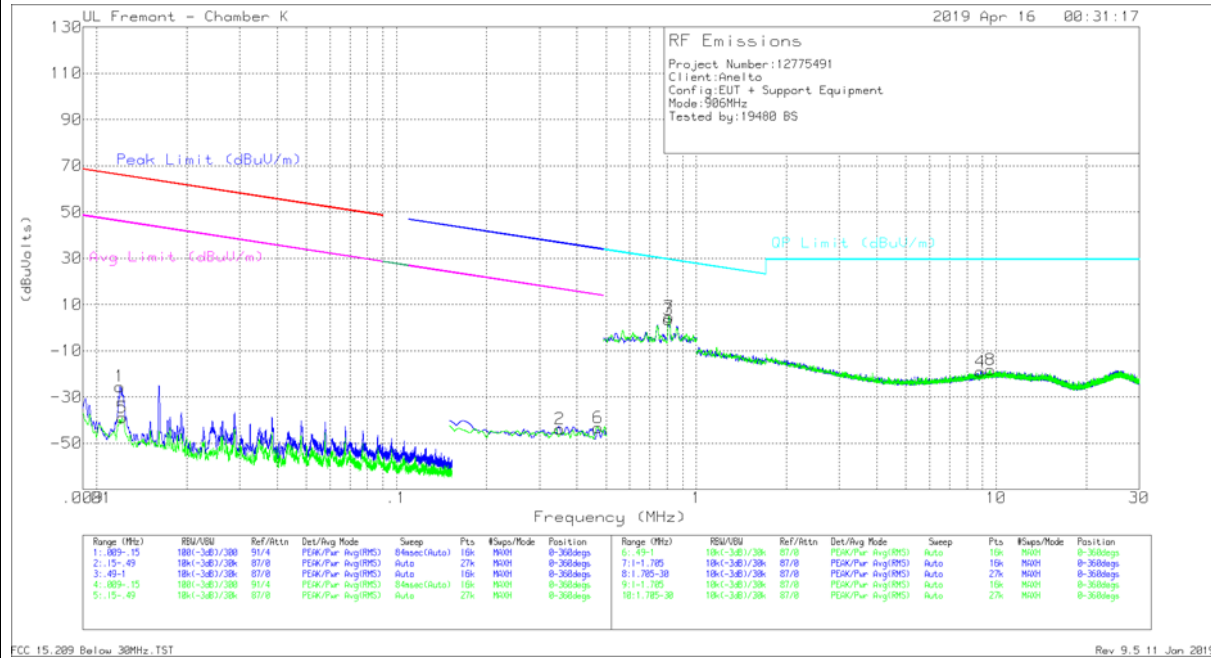
Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0190811 (dB/m)	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.813	32.91	Pk	25.7	-35.4	23.21	-	-	74	-50.79	20	184	H
1.813	20.1	Av	25.7	-35.4	10.4	54	-43.6	-	-	20	184	H
3.624	32.95	Pk	29.9	-32.7	30.15	-	-	74	-43.85	340	110	H
3.624	20.24	Av	29.9	-32.7	17.44	54	-36.56	-	-	340	110	H
8.194	25.92	Pk	37.9	-25.6	38.22	-	-	74	-35.78	200	272	H
8.194	12.97	Av	37.9	-25.6	25.27	54	-28.73	-	-	200	272	H
1.812	52.47	Pk	25.7	-35.4	42.77	-	-	74	-31.23	108	240	V
1.812	38.46	Av	25.7	-35.4	28.76	54	-25.24	-	-	108	240	V
3.624	43.68	Pk	29.9	-32.7	40.88	-	-	74	-33.12	108	391	V
3.624	30.91	Av	29.9	-32.7	28.11	54	-25.89	-	-	108	391	V
8.208	35.54	Pk	38	-25.6	47.94	-	-	74	-26.06	127	155	V
8.208	22.2	Av	38	-25.6	34.6	54	-19.4	-	-	127	155	V

Pk - Peak detector
Av - Average detection

8.2.3. WORST-CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

ANTENNA LOOP FACE ON AND FACE OFF



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Cables w/ PRE0186650	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	.01197	26.35	Pk	60	-31.8	-80	-25.45	66.02	-91.47	46.02	-71.47	-	-	-	-	0-360
2	.35127	11.96	Pk	56.2	-32.1	-80	-43.94	-	-	-	-	36.7	-80.64	16.7	-60.64	0-360
5	.0122	12.96	Pk	60	-31.8	-80	-38.84	65.86	-104.7	45.86	-84.7	-	-	-	-	0-360
6	.47094	12.61	Pk	56.2	-32.1	-80	-43.29	-	-	-	-	34.15	-77.44	14.15	-57.44	0-360

Pk - Peak detector

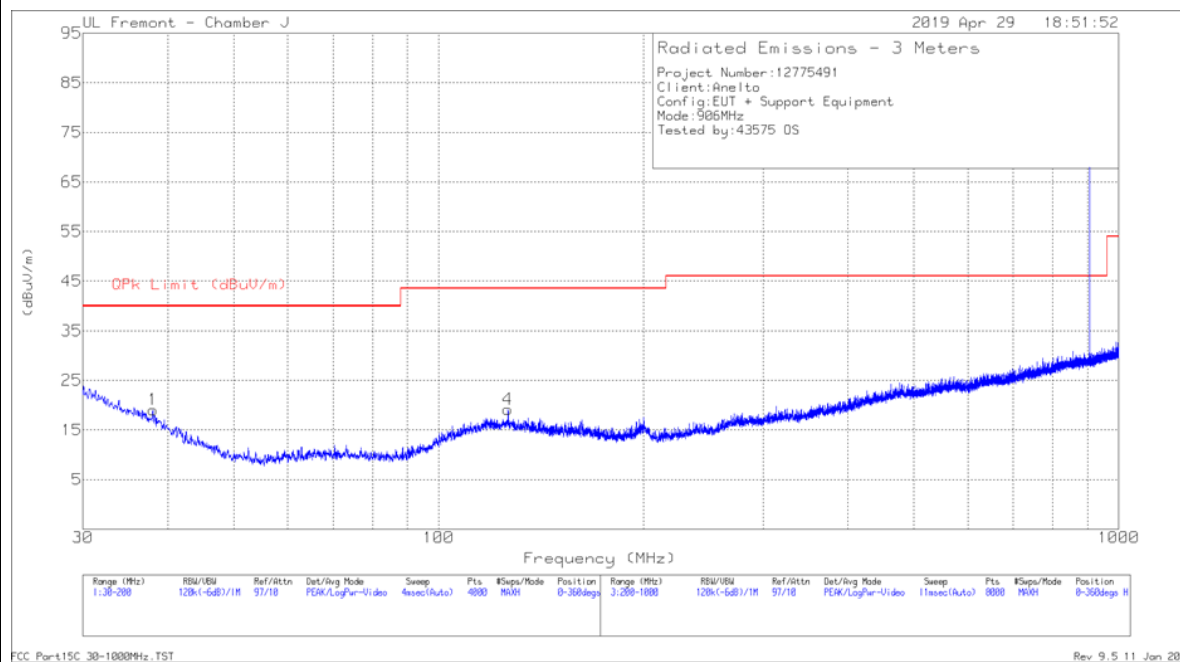
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Cables w/ PRE0186650	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.80891	19.31	Pk	56.3	-32.1	-40	3.51	29.46	-25.95	0-360
7	.8125	20.41	Pk	56.3	-32.1	-40	4.61	29.42	-24.81	0-360
4	8.86389	18.28	Pk	34.5	-31.8	-40	-19.02	29.5	-48.52	0-360
8	9.54823	19.04	Pk	34.4	-31.8	-40	-18.36	29.5	-47.86	0-360

Pk - Peak detector

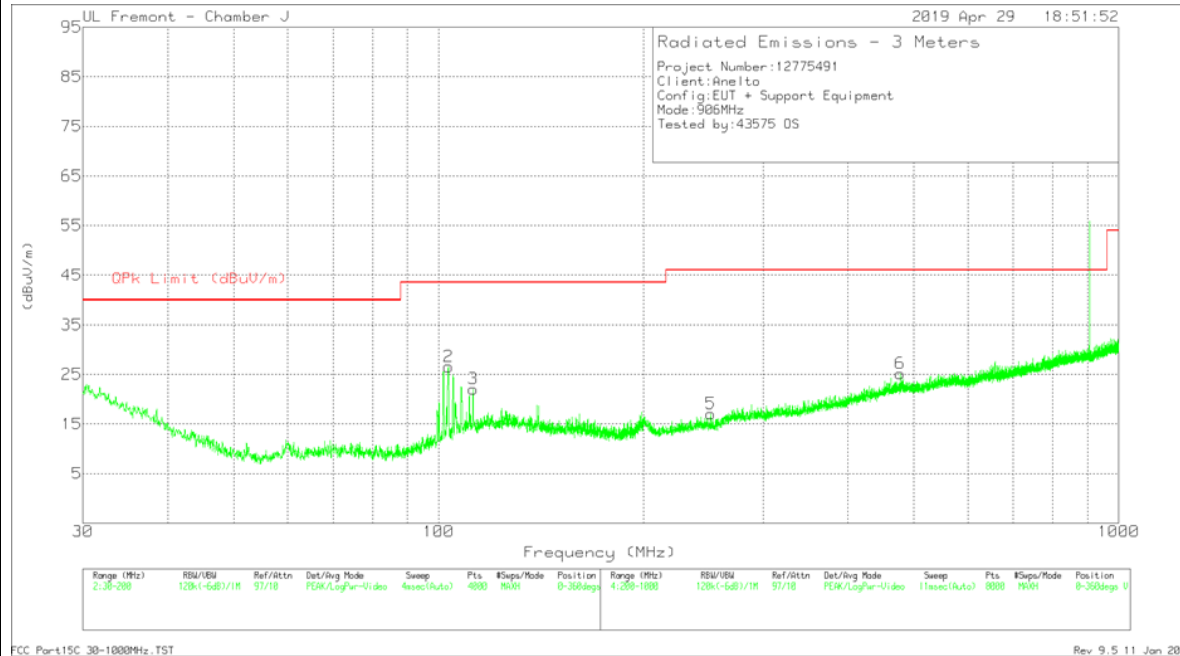
8.2.4. WORST-CASE 30MHz TO 1GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181575 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 38.0346	29.68	Pk	20.9	-31.5	19.08	40	-20.92	0-360	98	H
4	* 126.5425	30.18	Pk	19.8	-30.8	19.18	43.52	-24.34	0-360	398	H
2	103.4165	40.17	Pk	17.3	-30.9	26.57	43.52	-16.95	0-360	101	V
3	* 112.4713	33.87	Pk	19	-30.8	22.07	43.52	-21.45	0-360	101	V
5	* 251.2067	29.88	Pk	17.4	-30.2	17.08	46.02	-28.94	0-360	299	V
6	477.236	31.09	Pk	23.6	-29.5	25.19	46.02	-20.83	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181575 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 38.2256	29.24	Pk	20.7	-31.5	18.44	40	-21.56	114	277	H
* 38.2256	22.51	Qp	20.7	-31.5	11.71	40	-28.29	114	277	H
* 126.5377	28.3	Pk	19.8	-30.8	17.3	43.52	-26.22	350	311	H
* 126.5377	22.07	Qp	19.8	-30.8	11.07	43.52	-32.45	350	311	H
103.4592	28.98	Pk	17.3	-30.9	15.38	43.52	-28.14	358	150	V
103.4592	21.94	Qp	17.3	-30.9	8.34	43.52	-35.18	358	150	V
* 112.2805	28.9	Pk	19	-30.8	17.1	43.52	-26.42	122	384	V
* 112.2805	21.55	Qp	19	-30.8	9.75	43.52	-33.77	122	384	V
* 251	29.08	Pk	17.4	-30.2	16.28	46.02	-29.74	37	154	V
* 251	21.6	Qp	17.4	-30.2	8.8	46.02	-37.22	37	154	V
477.2307	29.26	Pk	23.6	-29.5	23.36	46.02	-22.66	116	178	V
477.2307	21.31	Qp	23.6	-29.5	15.41	46.02	-30.61	116	178	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Qp - Quasi-Peak detector

8.3. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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

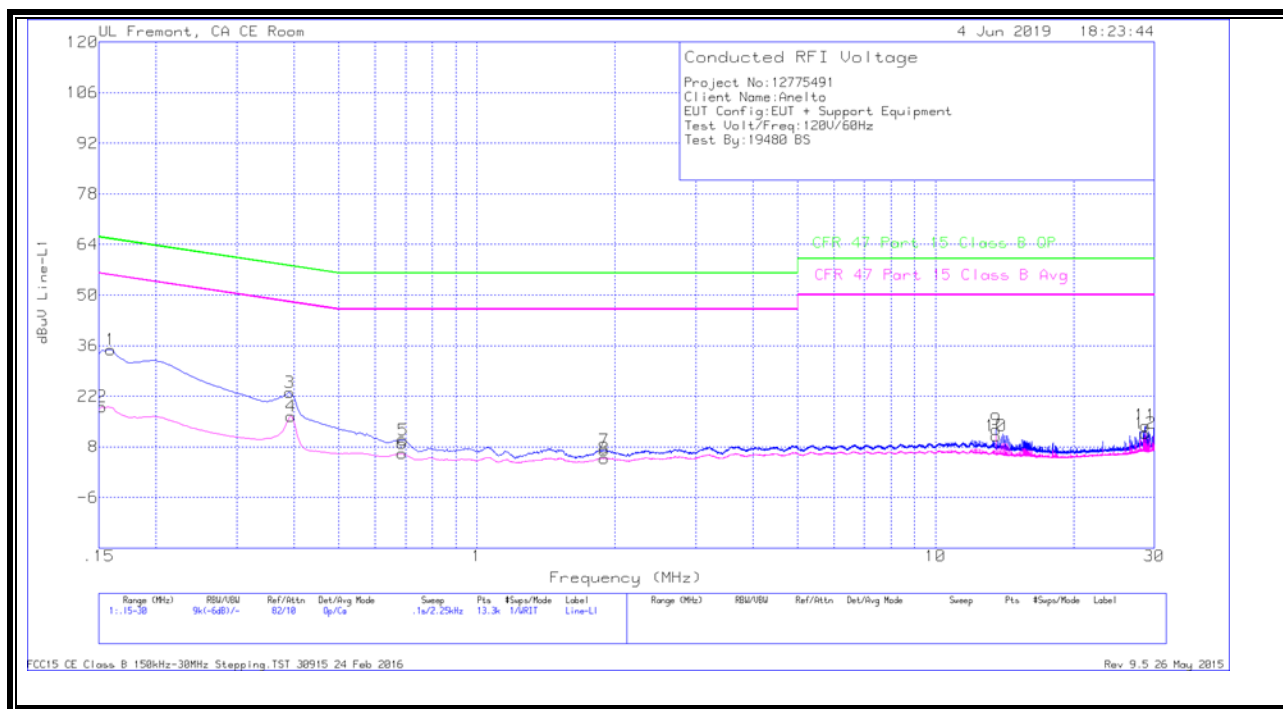
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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



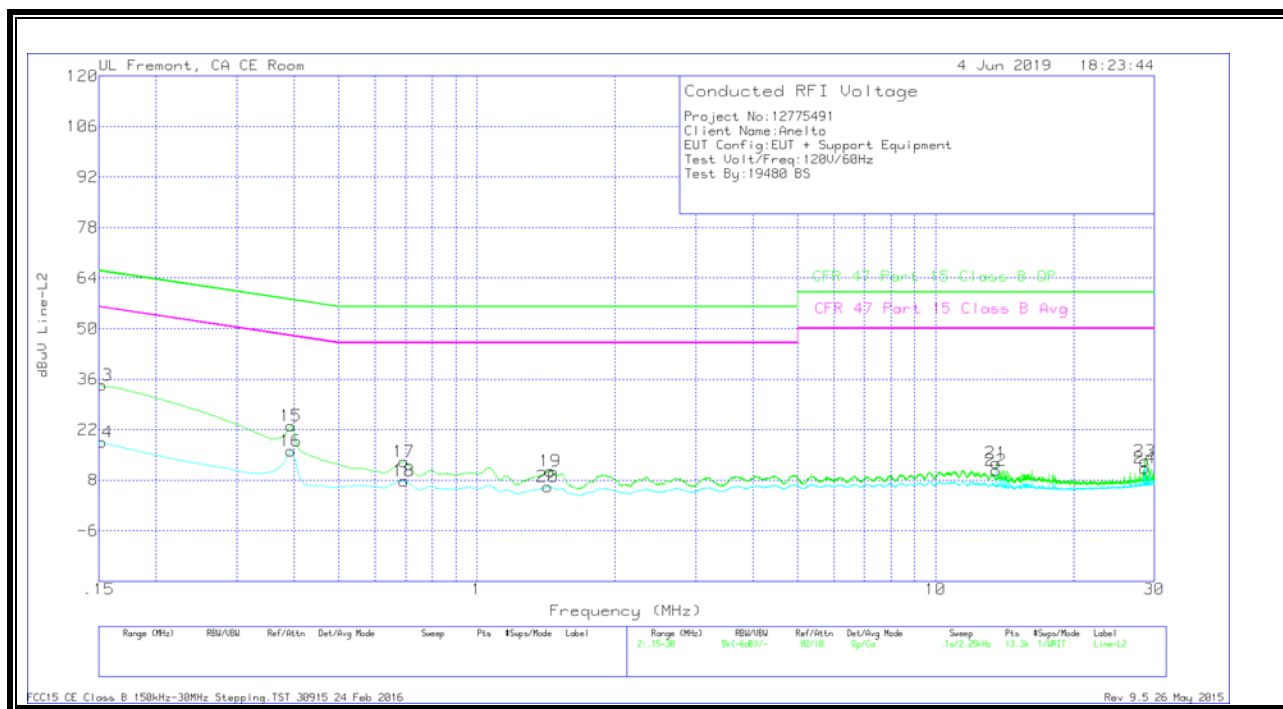
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.159	24.68	Qp	.1	0	10.1	34.88	65.52	-30.64	-	-
2	.15225	8.94	Ca	.1	0	10.1	19.14	-	-	55.88	-36.74
3	.39075	12.9	Qp	0	0	10.1	23	58.05	-35.05	-	-
4	.393	6.38	Ca	0	0	10.1	16.48	-	-	48	-31.52
5	.69225	-2	Qp	0	0	10.1	9.9	56	-46.1	-	-
6	.68775	-3.98	Ca	0	0	10.1	6.12	-	-	46	-39.88
7	1.89825	-3.14	Qp	0	.1	10.1	7.06	56	-48.94	-	-
8	1.89713	-5.4	Ca	0	.1	10.1	4.8	-	-	46	-41.2
9	13.56	2.35	Qp	.1	.2	10.2	12.85	60	-47.15	-	-
10	13.56	.51	Ca	.1	.2	10.2	11.01	-	-	50	-38.99
11	28.689	2.93	Qp	.1	.4	10.5	13.93	60	-46.07	-	-
12	28.689	.82	Ca	.1	.4	10.5	11.82	-	-	50	-38.18

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.15225	24.23	Qp	.1	0	10.1	34.43	65.88	-31.45	-	-
14	.15225	8.34	Ca	.1	0	10.1	18.54	-	-	55.88	-37.34
15	.393	12.91	Qp	0	0	10.1	23.01	58	-34.99	-	-
16	.393	5.99	Ca	0	0	10.1	16.09	-	-	48	-31.91
17	.6945	3.01	Qp	0	0	10.1	13.11	56	-42.89	-	-
18	.6945	-2.26	Ca	0	0	10.1	7.84	-	-	46	-38.16
19	1.446	.41	Qp	0	.1	10.1	10.61	56	-45.39	-	-
20	1.428	-4.06	Ca	0	.1	10.1	6.14	-	-	46	-39.86
21	13.56	2.37	Qp	.1	.2	10.2	12.87	60	-47.13	-	-
22	13.56	.2	Ca	.1	.2	10.2	10.7	-	-	50	-39.3
23	28.5675	2.26	Qp	.1	.4	10.5	13.26	60	-46.74	-	-
24	28.5675	.33	Ca	.1	.4	10.5	11.33	-	-	50	-38.67

Qp - Quasi-Peak detector
Ca - CISPR average detection