



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-216 ISSUE 2**

CERTIFICATION TEST REPORT

FOR

WIRELESS CHARGER

MODEL NO: F7U050V2

FCC ID: K7SF7U050V2

IC: 3623A-F7U050V2

REPORT NUMBER: 12420402-E1V2

ISSUE DATE: SEPTEMBER 20, 2018

Prepared for

**BELKIN INTERNATIONAL, INC.
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094, U.S.A.**

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/13/2018	Initial Issue	Jason Qian
V2	09/20/2018	Address TCB's questions and convert below 1GHz file to 10 meter distance on page 40-48	Jason Qian

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY.....	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. MAXIMUM OUTPUT POWER.....	8
5.3. SOFTWARE AND FIRMWARE.....	8
5.4. WORST-CASE CONFIGURATION AND MODE.....	8
5.5. DESCRIPTION OF TEST SETUP.....	9
6. TEST AND MEASUREMENT EQUIPMENT	13
7. OCCUPIED BANDWIDTH	14
7.1.1. STANDBY CONFIGURATION CHARGER	15
7.1.2. OPERATING CONFIGURATION WITH PHONE	15
7.1.3. OPERATING CONFIGURATION WITH PHONE 3mm Gap	16
7.1.4. OPERATING CONFIGURATION WITH 10W LOAD	16
7.1.5. OPERATING CONFIGURATION WITH 10W LOAD at 3mm Gap.....	17
8. RADIATED EMISSION TEST RESULTS.....	18
8.1. LIMITS AND PROCEDURE	18
8.2. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz ..20	
8.2.1. STANDBY CONFIGURATION	20
8.2.2. OPERATING WITH PHONE	21
8.2.3. OPERATING WITH PHONE WITH 3mm Gap.....	22
8.2.4. OPERATING WITH 10W LOAD.....	23
8.2.5. OPERATING WITH 10W LOAD AT 3mm Gap.....	24
8.3. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz 25	
8.3.1. STANDBY CONFIGURATION	25
8.3.2. OPERATING WITH PHONE	26
8.3.3. OPERATING WITH iPhone AT 3mm Gap.....	27
8.3.4. OPERATING WITH 10W LOAD.....	28
8.3.5. OPERATING WITH 10W LOAD AT 3mm Gap.....	29

8.4.	<i>FCC TX SPURIOUS EMISSION 30 TO 1000 MHz</i>	30
8.4.1.	STANDBY CONFIGURATION	30
8.4.2.	OPERATING WITH PHONE	32
8.4.3.	OPERATING WITH PHONE 3mm Gap	34
8.4.4.	OPERATING WITH 10W LOAD	36
8.4.5.	OPERATING WITH 10W LOAD AT 3MM GAP	38
8.5.	<i>IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz</i>	40
8.5.1.	STANDBY CONFIGURATION	40
8.5.2.	OPERATING WITH PHONE	42
8.5.3.	OPERATING WITH iPhone AT 3mm Gap	44
8.5.4.	OPERATING WITH 10W LOAD	46
8.5.5.	OPERATING WITH 10W LOAD AT 3mm Gap	48
9.	AC POWER LINE CONDUCTED EMISSIONS	50
10.	SETUP PHOTOS	61

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BELKIN INTERNATIONAL, INC.
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094 U.S.A.

EUT DESCRIPTION: WIRELESS CHARGER

MODEL NUMBER: F7U050V2

SERIAL NUMBER: 26S10EH6825721

DATE TESTED: August 18 - September 06, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
INDUSTRY CANADA RSS-216 ISSUE 2	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. 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:

Prepared By:



CHIN PANG
SENIOR TEST ENGINEER
UL VERIFICATION SERVICES INC.



JASON QIAN
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, and FCC CFR 47 Part 15, RSS-GEN Issue 5 and RSS-216 Issue 2 January 2016.

3. 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)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at [NVLAP Lab Search](#).

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
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%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is wireless charging base capable of up to 10 watt power transfer.

5.2. MAXIMUM OUTPUT POWER

The transmitter has maximum peak radiated electric and magnetic field strength as follows:

Fundamental Frequency (KHz)	Mode	E field (300m distance) FCC (dBuV/m)	H field (3m distance) IC (dBuA/m)
127.8	Standby(Config 1)	-0.27	28.89
127.8	Operating(Config 2)	-0.32	26.81
127.8	Operating(Config 3)	2.74	34.75

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 6.10

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is a single frequency magnetic charger enclosed in a plastic case. For the entire radiated emissions test, the EUT was examining on the following configuration.

Config	Mode	Descriptions
1	Standby	EUT Alone powered by AC/DC adapter
2	Operating (With & without 3mm gap)	EUT and smart phone powered by AC/DC adapter (Phone 5W, 20-50% power Charging)
3	Operating (with & without 3mm gap)	EUT and 10W load powered by AC/DC adapter (10W Load, >90% power charging)

Note that the EUT was tested as standby and operation modes.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

SUPPORT EQUIPMENT & PERIPHERALS LIST			
Description	Manufacturer	Model	Serial Number
QI Receiver Simulator	AVID Technologies	102-03	00011122117
AC Adapter	Shenzhen Honor Electronics Co.	ADS-26FSG-12 15023EPCU	N/A
10W Resistor Load	N/A	N/A	N/A
Phone	Apple	iPhone X	G6TVJ7H8JCLH

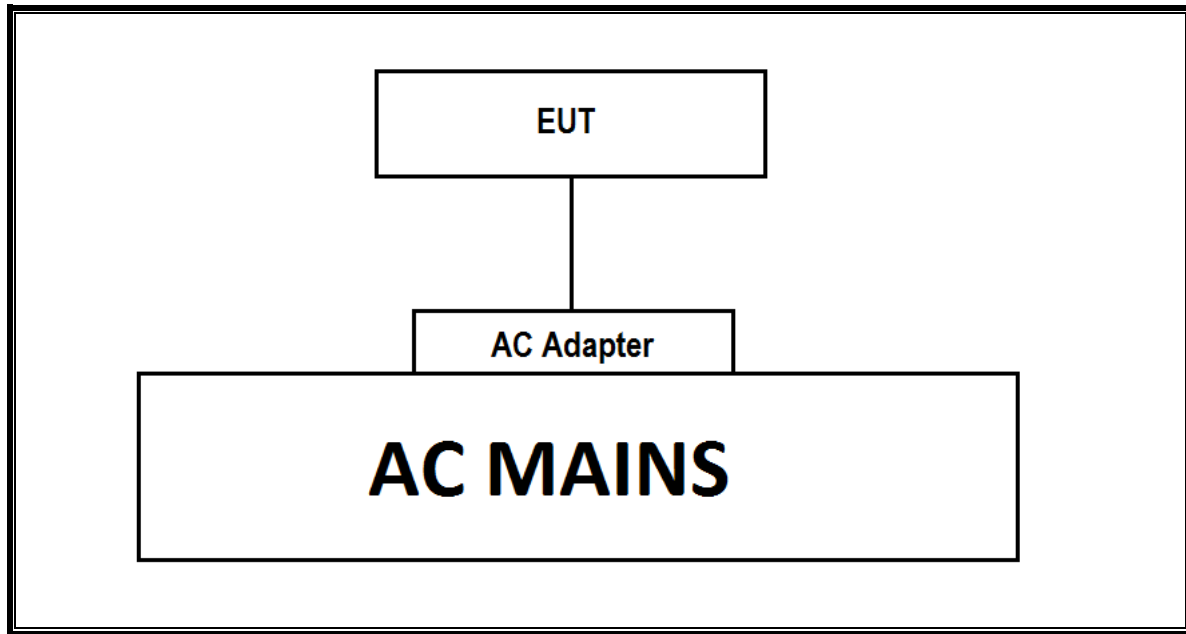
I/O CABLES

N/A

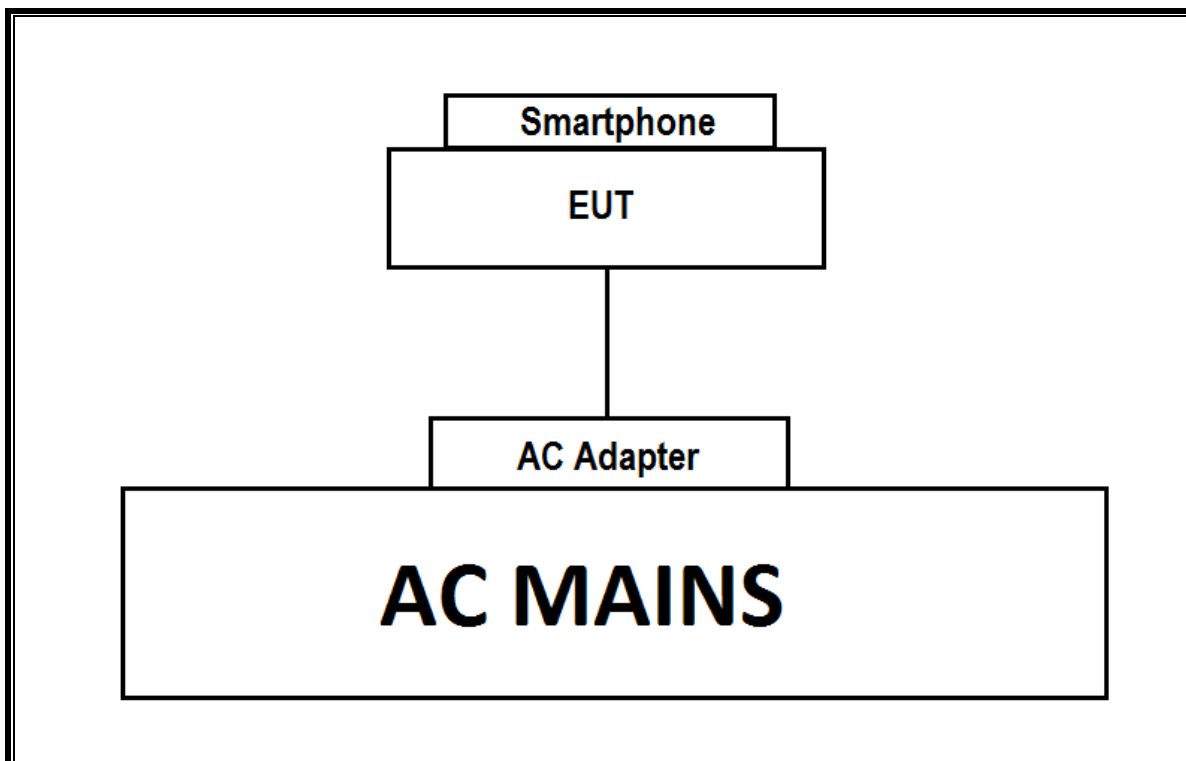
TEST SETUP

Please see the following configurations for the test setups. Both configurations indicate that the EUT is directly connected to an AC/DC adapter.

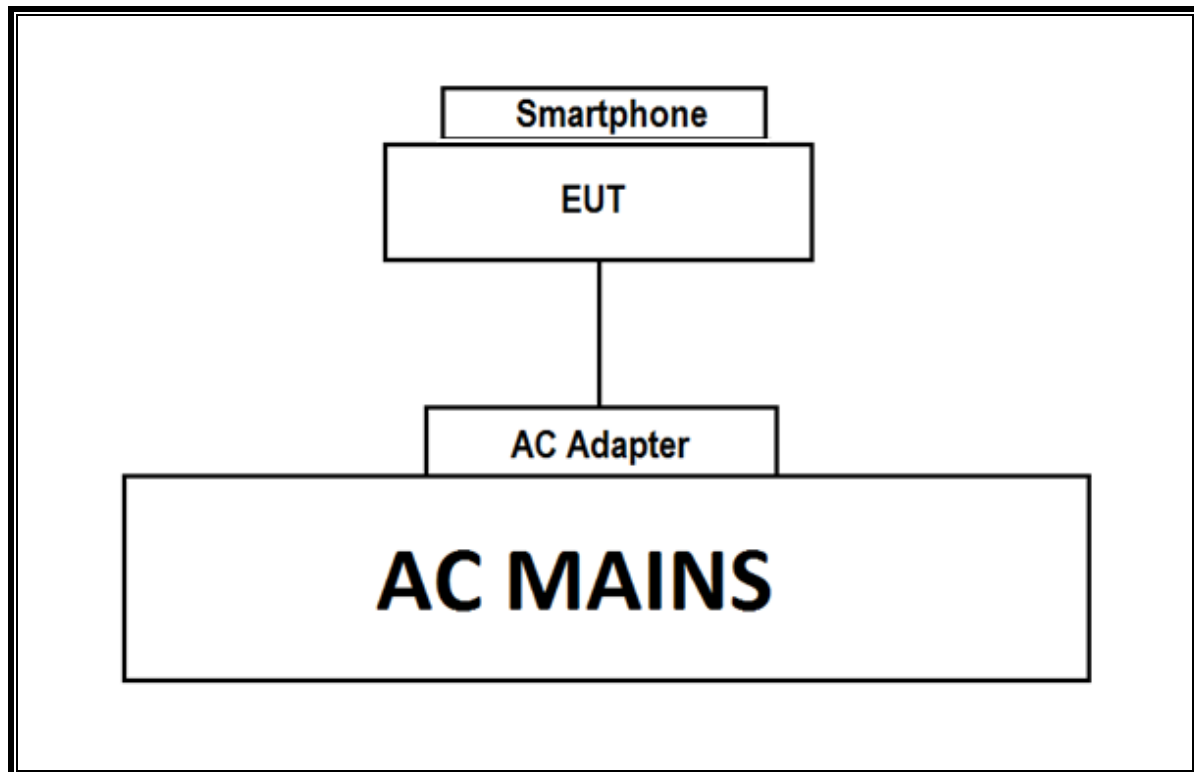
CONFIGURATION 1: STANDBY MODE



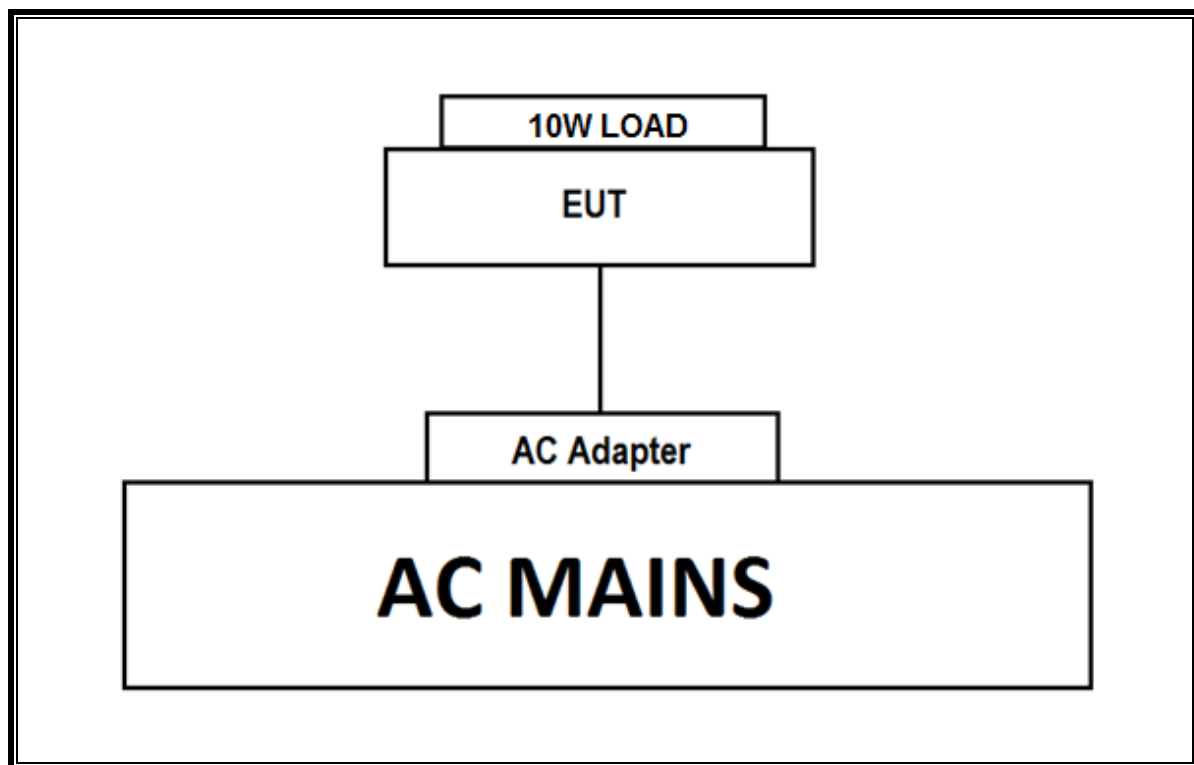
CONFIGURATION 2: OPERATING MODE WITH PHONE (WITHOUT 3mm AIRGAP)



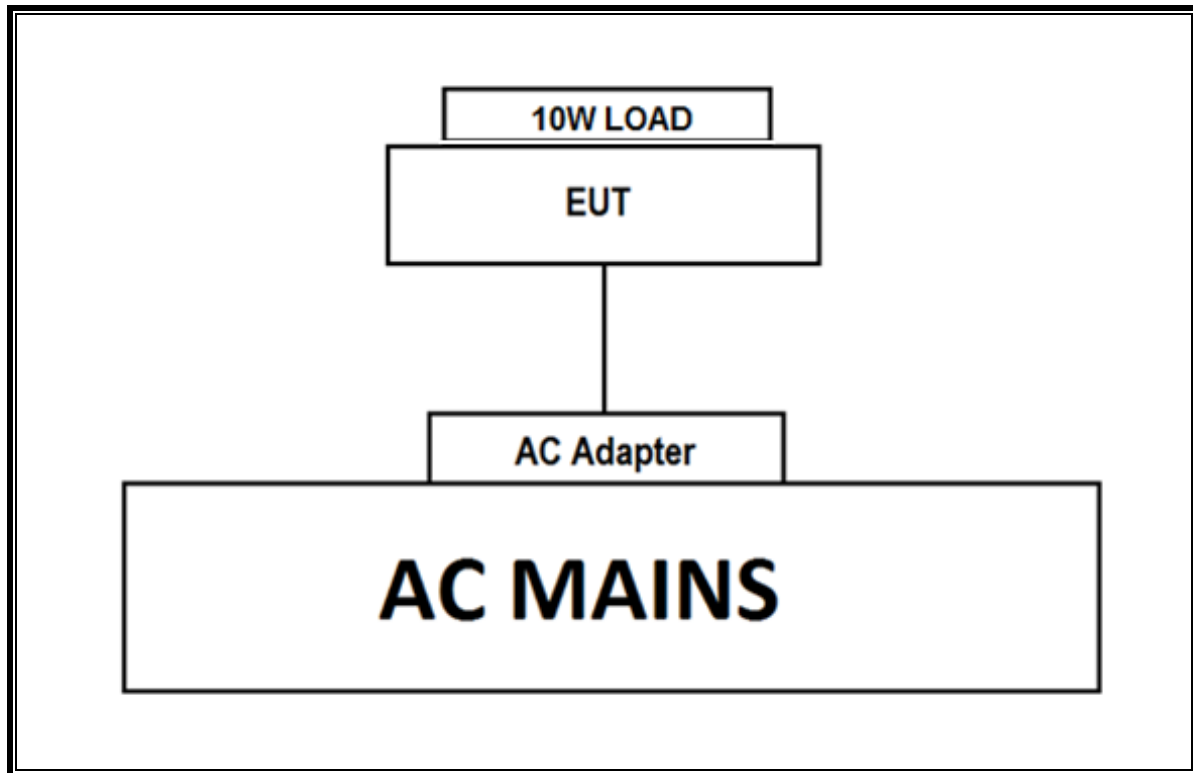
CONFIGURATION 2: OPERATING MODE WITH PHONE (3mm AIRGAP)



CONFIGURATION 3: OPERATING MODE WITH 10W LOAD (WITHOUT 3mm AIRGAP)



CONFIGURATION 3: OPERATING MODE WITH 10W LOAD (3mm AIRGAP)



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
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T130	10/16/2018
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T243	05/10/2019
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T300	12/11/2018
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T15	08/14/2019
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	T866	12/13/2018
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1454	01/08/2019
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1450	02/05/2019
EMI Test Receiver	Rohde & Schwarz	ESR	T1436	01/25/2019
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2	T1310	01/31/2019
LIT-930 Transient Limiter	COM-POWER	N/A	T1457	03/01/2019

Test Software List			
Description	Manufacturer	Model	Version
Antenna Port Software	UL	UL EMC	Ver 7.9 Jan 24, 2018
Radiated Software	UL	UL EMC	Ver 9.5, April 26, 2016
Conducted Software	UL	UL EMC	Ver 9.5, May 26 2015

7. OCCUPIED BANDWIDTH

TEST PROCEDURE

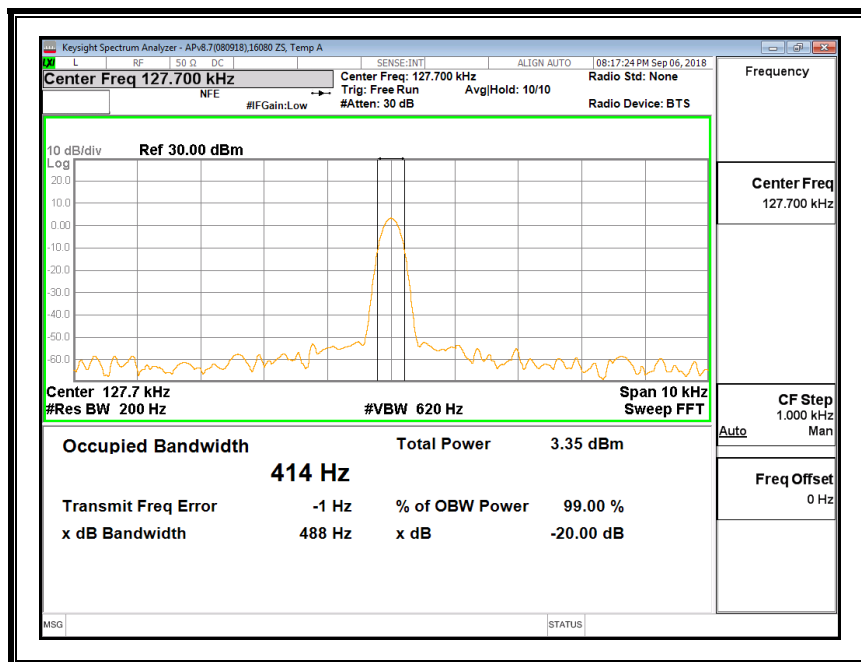
The transmitter output is connected to the spectrum analyzer. The RBW is set to 200Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

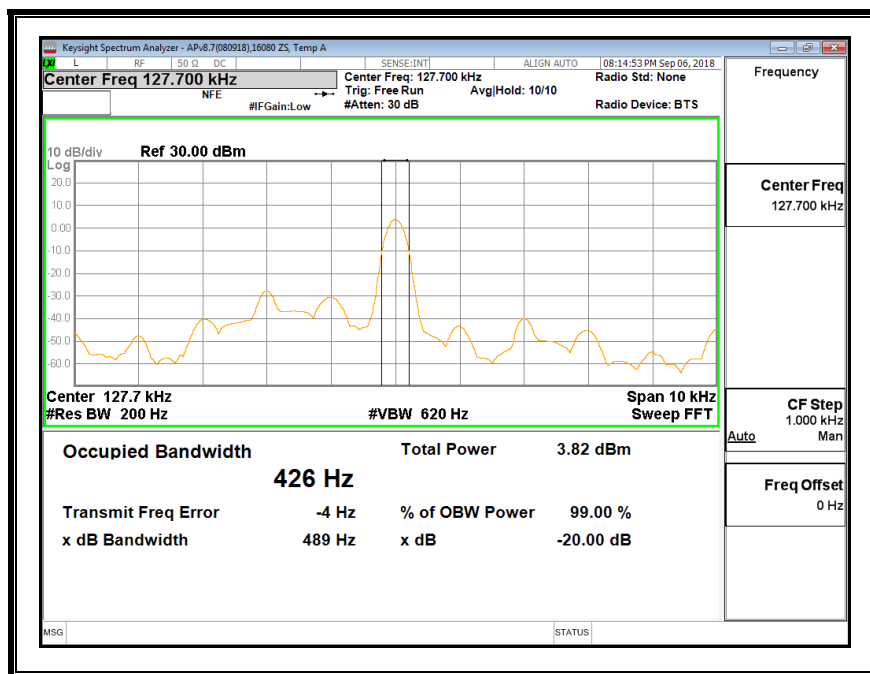
RESULTS

ID:	12981	Date:	9/6/18
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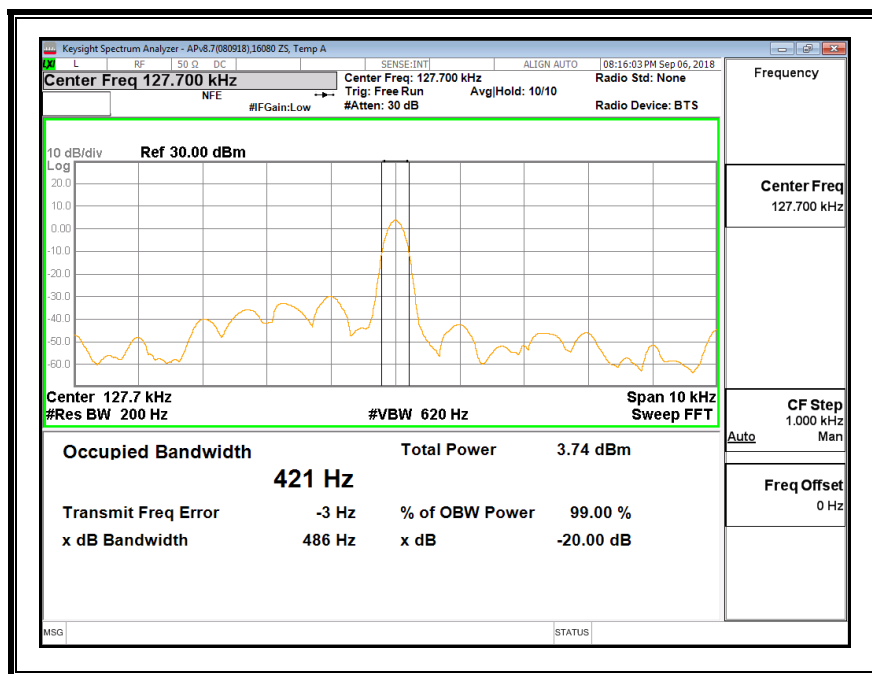
7.1.1. STANDBY CONFIGURATION CHARGER



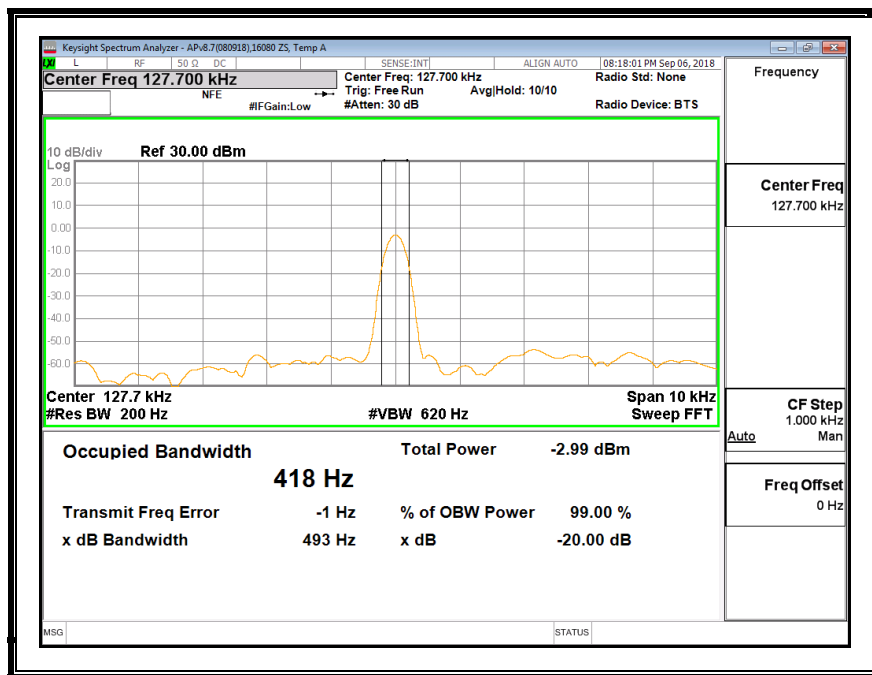
7.1.2. OPERATING CONFIGURATION WITH PHONE



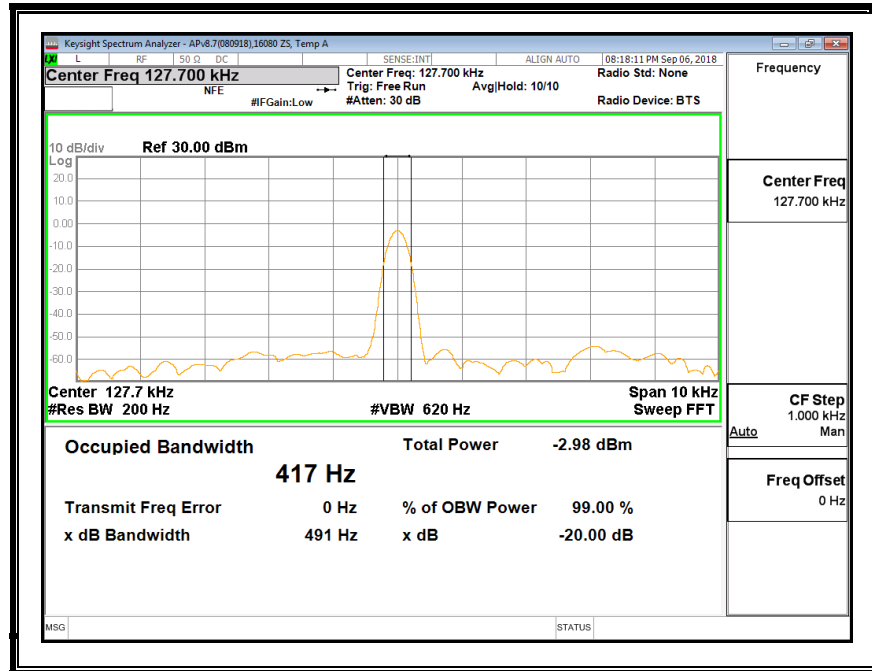
7.1.3. OPERATING CONFIGURATION WITH PHONE 3mm Gap



7.1.4. OPERATING CONFIGURATION WITH 10W LOAD



7.1.5. OPERATING CONFIGURATION WITH 10W LOAD at 3mm Gap



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.209 (a)

ICES-001 Section 6.2, IC RSS-216 6.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (m)
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 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

CISPR 11:04

Electromagnetic radiation disturbance limits for class B group 2 equipment measured on a test site

Frequency Range (MHz)	Magnetic Field Strength Limit Class B Group 2 @ 3m Distance (dBuA/m)
	Quasi-peak
0.009 - 0.070	69
0.070 - 0.1485	69
	Decreasing Linearly with Logarithm of Frequency to 39
0.1485 - 4.0	39
	Decreasing Linearly with Logarithm of Frequency to 3
4.0 - 30	3

The limits of this table apply to induction cooking appliances intended for commercial use and those for domestic use with a diagonal diameter of more than 1.6m.
The measurements are performed at 3m distance with a 0.6 m loop antenna as described in 4.2.1 of CISPR 16-1-4.
The antenna should be vertically installed, with the lower edge of the loop at 1m height above the floor.

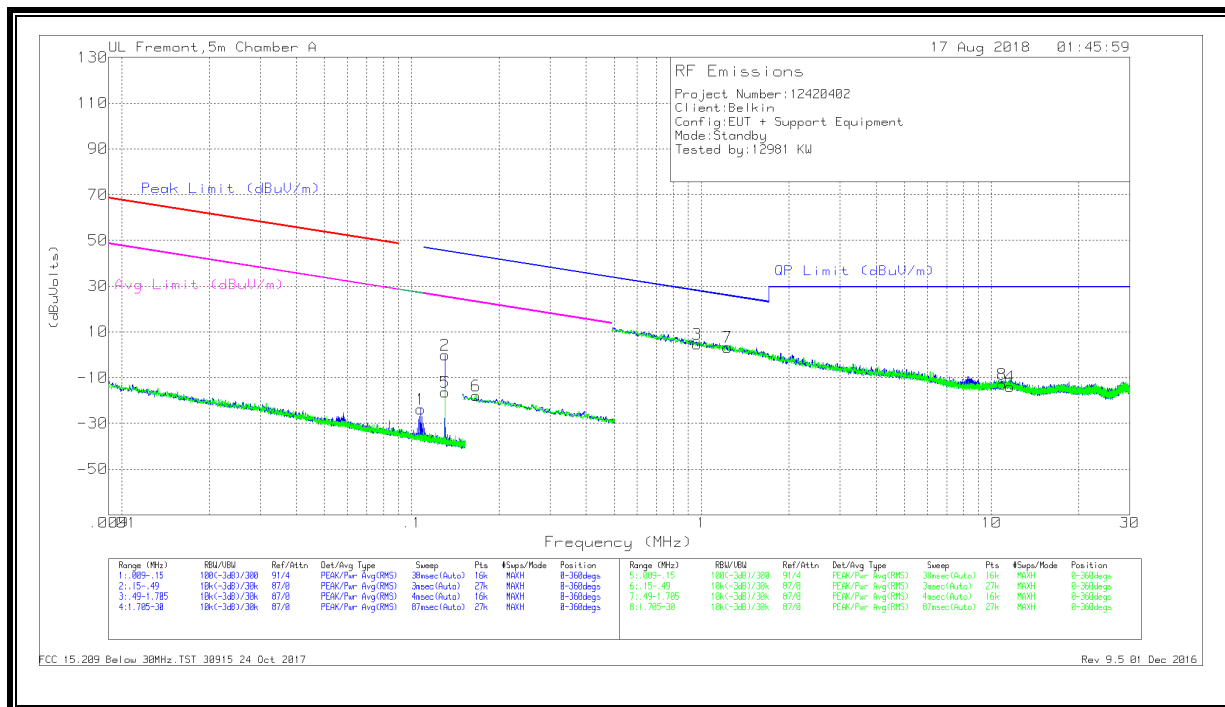
Frequency Range (MHz)	Electric Field Strength Limit Class B Group 2 @ 10m distance	
	Quasi-Peak	Average
30-80,872	30	25
80,872-81,848	50	45
81,848-134,786	30	25
134,786-136,414	50	45
136,414-230	30	25
230-1000	37	32

RESULTS

The EUT belongs to Type 3 (Category I Radio Apparatus).

8.2. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

8.2.1. STANDBY CONFIGURATION



DATA

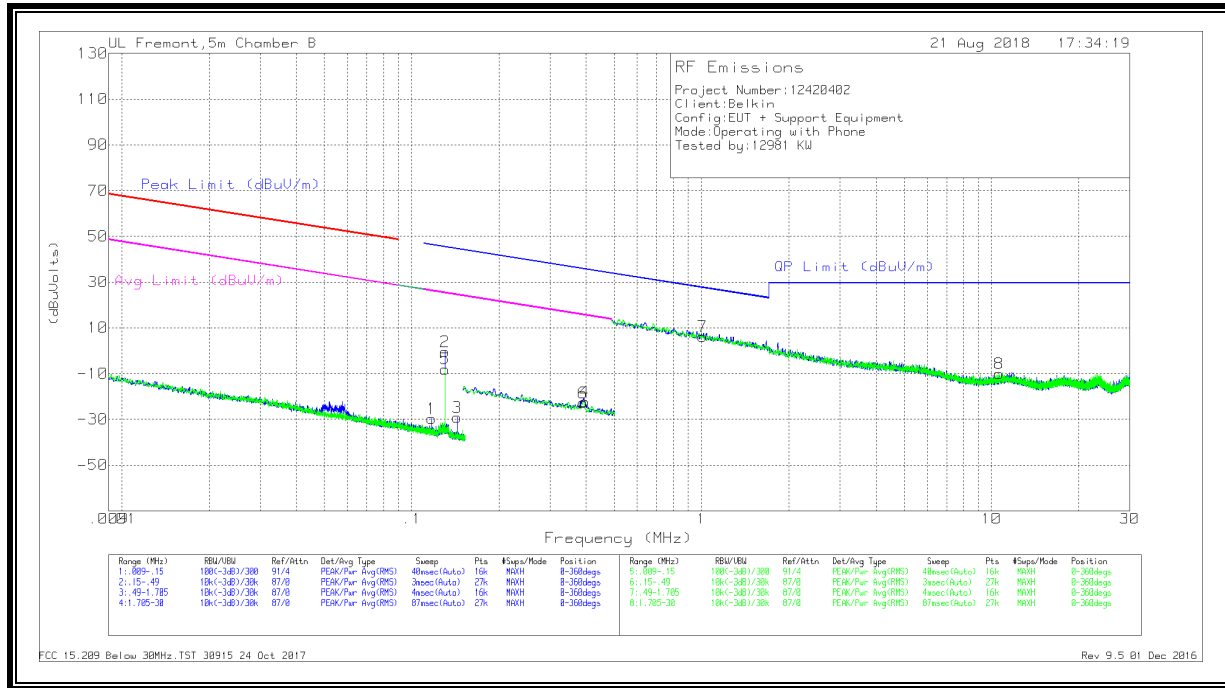
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.13019	49.56	Pk	14	.1	-80	-16.34	45.33	-61.67	25.33	-41.67	0-360
2	.13022	65.63	Pk	14	.1	-80	-27	45.33	-45.6	25.33	-25.6	0-360
6	.1668	48.15	Pk	13.9	.1	-80	-17.85	43.18	-61.03	23.18	-41.03	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.10751	42.11	Pk	14	.1	-80	-23.79	26.99	-50.78	0-360
3	.96576	30.23	Pk	14.2	.1	-40	4.53	27.92	-23.39	0-360
7	1.22925	28.68	Pk	14.3	.2	-40	3.18	25.83	-22.65	0-360
8	10.87814	11.82	Pk	14.7	.5	-40	-12.98	29.5	-42.48	0-360
4	11.59131	10.9	Pk	14.7	.5	-40	-13.9	29.5	-43.4	

Pk - Peak detector

8.2.2. OPERATING WITH PHONE



DATA

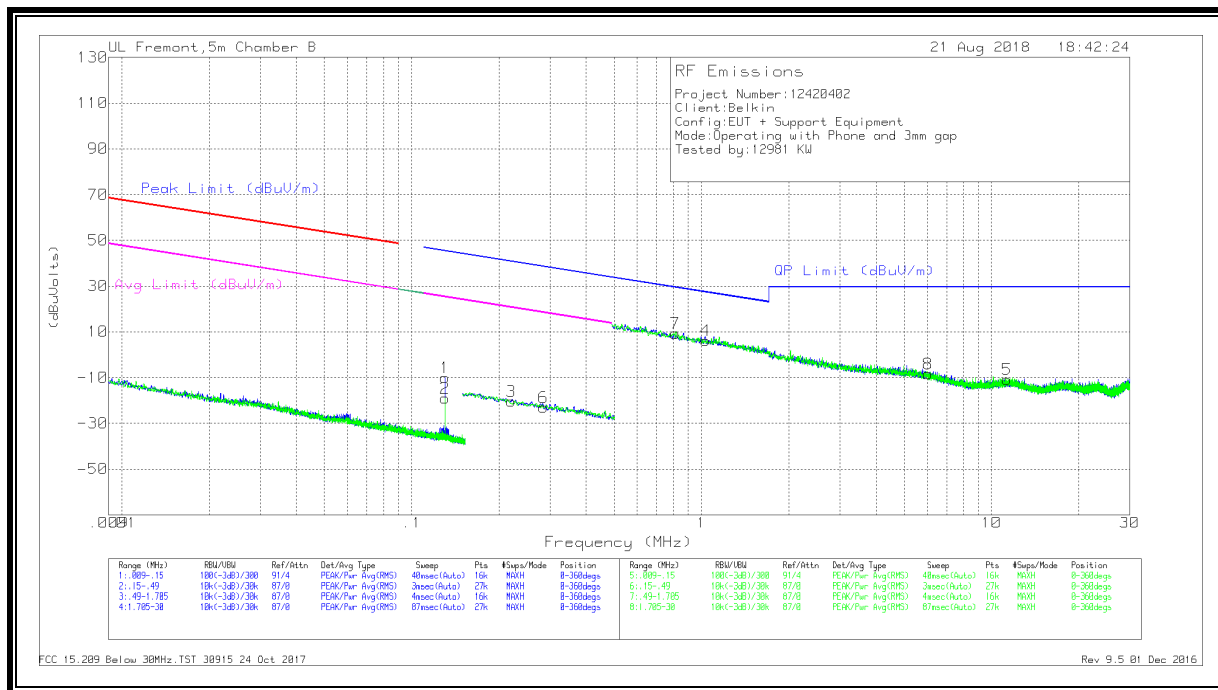
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300 m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.11703	35	Pk	14	1.4	-80	-29.6	46.26	-75.86	26.26	-55.86	0-360
2	.1302	64.28	Pk	14	1.4	-80	-32	45.33	-45.65	25.33	-25.65	0-360
5	.13022	56.61	Pk	14	1.4	-80	-7.99	45.33	-53.32	25.33	-33.32	0-360
3	.1434	35.53	Pk	14	1.4	-80	-29.07	44.49	-73.56	24.49	-53.56	0-360
6	.3894	41.87	Pk	13.8	1.5	-80	-22.83	35.8	-58.63	15.8	-38.63	0-360
4	.39506	42.39	Pk	13.8	1.5	-80	-22.31	35.67	-57.98	15.67	-37.98	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)
7	1.00862	30.38	Pk	14.3	1.5	-40	6.18	27.55	-21.37	0-360
8	10.62662	13.77	Pk	14.7	1.6	-40	-9.93	29.5	-39.43	0-360

Pk - Peak detector

8.2.3. OPERATING WITH PHONE WITH 3mm Gap



DATA

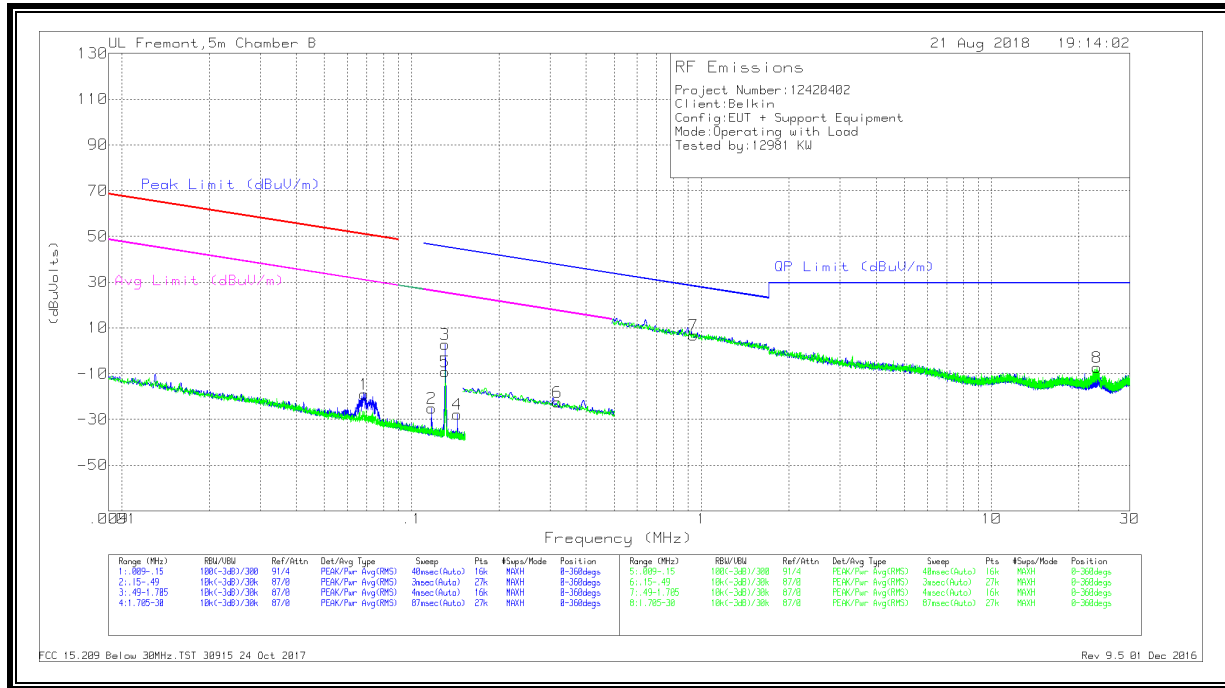
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300 m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
2	.13021	45.55	Pk	14	1.4	-80	-19.05	45.33	-64.38	25.33	-44.38	0-360
1	.13022	54.73	Pk	14	1.4	-80	-9.87	45.33	-55.2	25.33	-35.2	0-360
3	.22059	44.22	Pk	13.9	1.5	-80	-20.38	40.74	-61.12	20.74	-41.12	0-360
6	.28486	41.62	Pk	13.8	1.5	-80	-23.08	38.52	-61.6	18.52	-41.6	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)
7	.81186	33.79	Pk	14	1.5	-40	9.29	29.43	-20.14	7
4	1.03249	30.5	Pk	14.3	1.5	-40	6.3	27.34	-21.04	4
8	6.03376	15.79	Pk	14.4	1.5	-40	-8.31	29.5	-37.81	8
5	11.31359	12.85	Pk	14.7	1.6	-40	-10.85	29.5	-40.35	5

Pk - Peak detector

8.2.4. OPERATING WITH 10W LOAD



DATA

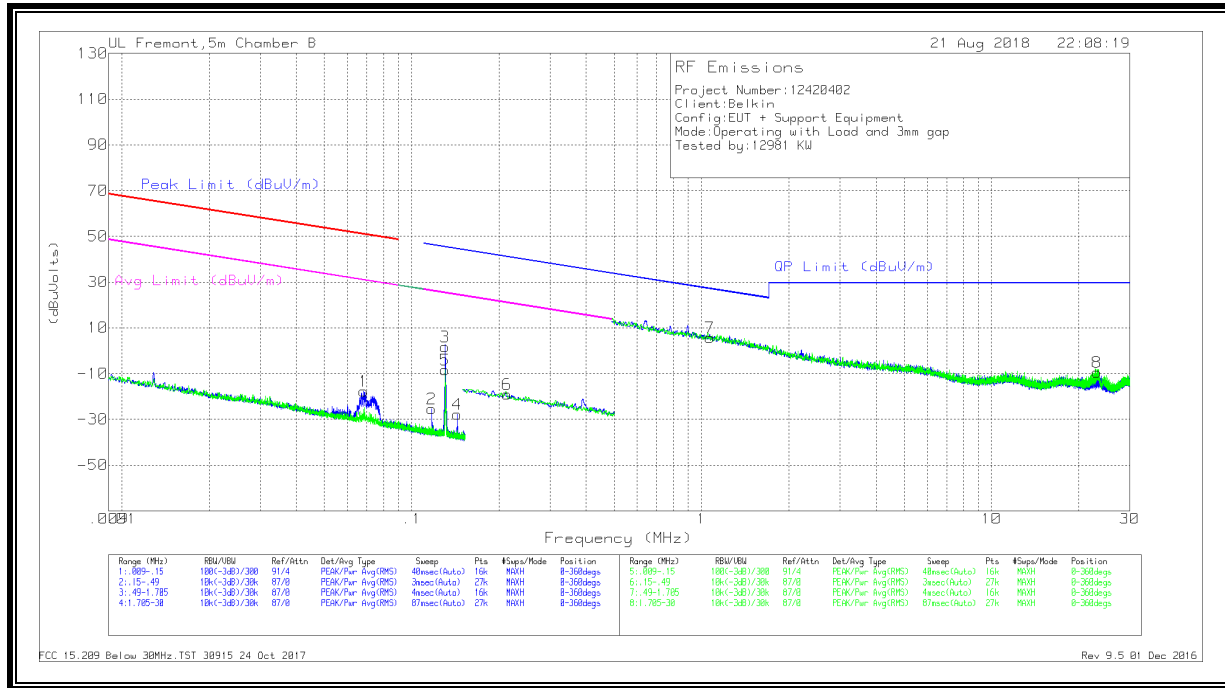
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.06858	45.43	Pk	14.2	1.4	-80	-18.97	50.86	-69.83	30.86	-49.83	0-360
2	.117	39.52	Pk	14	1.4	-80	-25.08	46.26	-71.34	26.26	-51.34	0-360
3	.13022	67.34	Pk	14	1.4	-80	2.74	45.33	-42.59	25.33	-22.59	0-360
5	.13025	55.36	Pk	14	1.4	-80	-9.24	45.33	-54.57	25.33	-34.57	0-360
4	.14342	36.9	Pk	14	1.4	-80	-27.7	44.49	-72.19	24.49	-52.19	0-360
6	.31876	42.12	Pk	13.8	1.5	-80	-22.58	37.54	-60.12	17.54	-40.12	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)
7	.93825	31.15	Pk	14.2	1.5	-40	6.85	28.17	-21.32	0-360
8	23.04857	17.21	Pk	13.7	1.7	-40	-7.39	29.5	-36.89	0-360

Pk - Peak detector

8.2.5. OPERATING WITH 10W LOAD AT 3mm Gap



DATA

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)	Azimuth (Degs)
1	.06829	46.63	Pk	14.3	1.4	-80	-17.67	50.9	-68.57	30.9	-48.57	0-360
2	.11718	39.31	Pk	14	1.4	-80	-25.29	46.25	-71.54	26.25	-51.54	0-360
3	.13019	66.4	Pk	14	1.4	-80	1.8	45.33	-43.53	25.33	-23.53	0-360
5	.13022	56.14	Pk	14	1.4	-80	-8.46	45.33	-53.79	25.33	-33.79	0-360
4	.14328	36.89	Pk	14	1.4	-80	-27.71	44.5	-72.21	24.5	-52.21	0-360
6	.21314	45.46	Pk	13.9	1.5	-80	-19.14	41.04	-60.18	21.04	-40.18	0-360

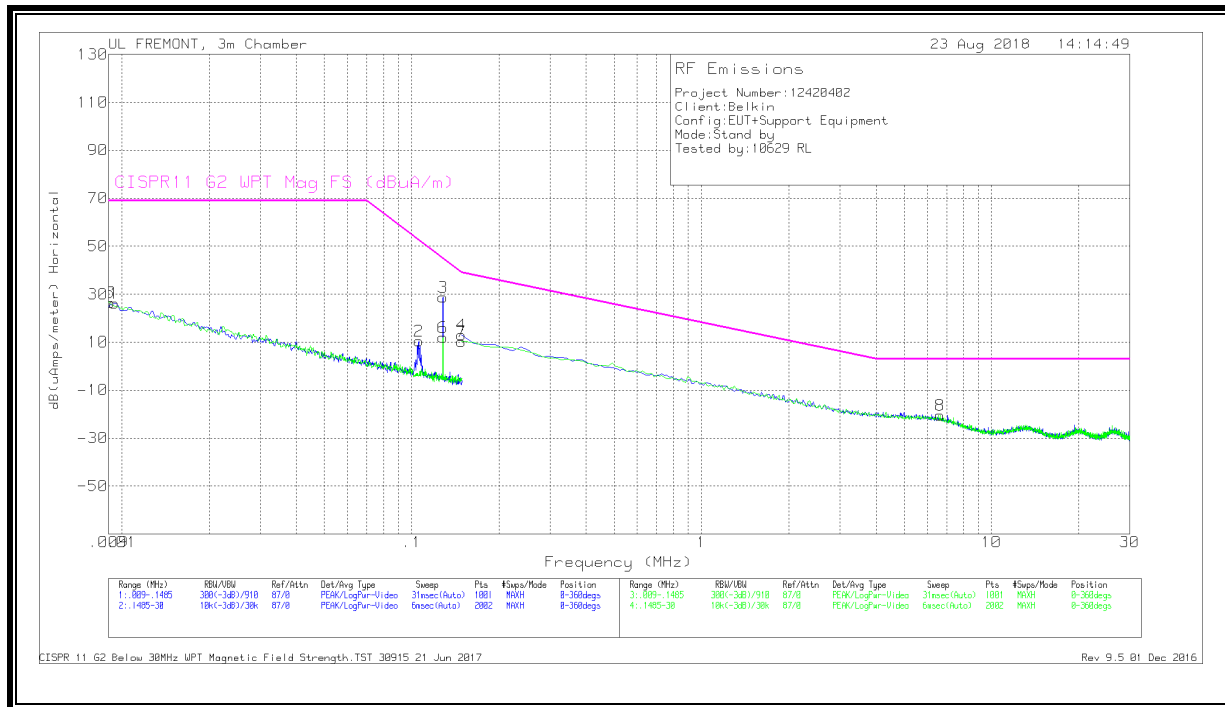
Pk - Peak detector

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)
7	1.06874	29.93	Pk	14.3	1.5	-40	5.73	27.05	-21.32	0-360
8	23.0973	15.25	Pk	13.7	1.7	-40	-9.35	29.5	-38.85	0-360

Pk - Peak detector

8.3. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

8.3.1. STANDBY CONFIGURATION

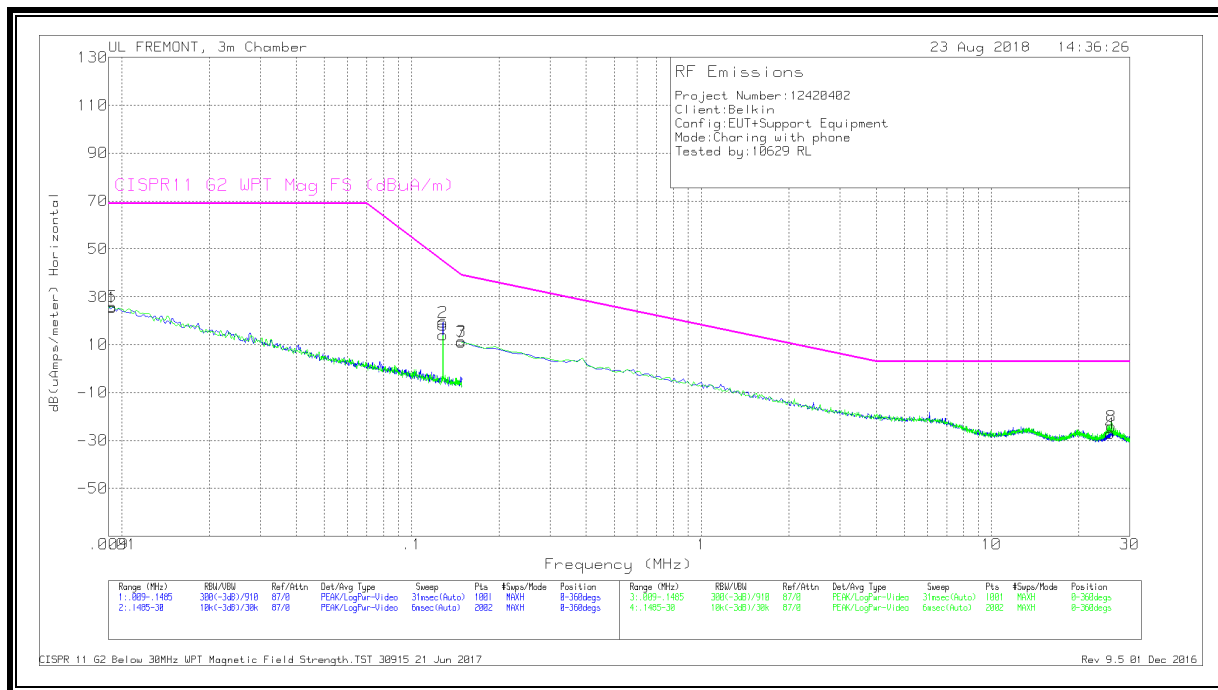


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
5	.00914	56.12	Pk	-31.1	1.4	26.42	69	-42.58	0-360
1	.00942	56.22	Pk	-31.4	1.4	26.22	69	-42.78	0-360
2	.10574	49.1	Pk	-40	1.4	10.5	52.55	-42.05	0-360
3	.12814	67.59	Pk	-40.1	1.4	28.89	44.88	-15.99	0-360
6	.12814	50.72	Pk	-40.1	1.4	12.02	44.88	-32.86	0-360
4	.1485	51.76	Pk	-40.1	1.4	13.06	39	-25.94	0-360
7	.1485	48.99	Pk	-40.1	1.4	10.29	39	-28.71	0-360
8	6.63783	18.45	Pk	-40.4	1.5	-20.45	3	-23.45	0-360

Pk - Peak detector

8.3.2. OPERATING WITH PHONE

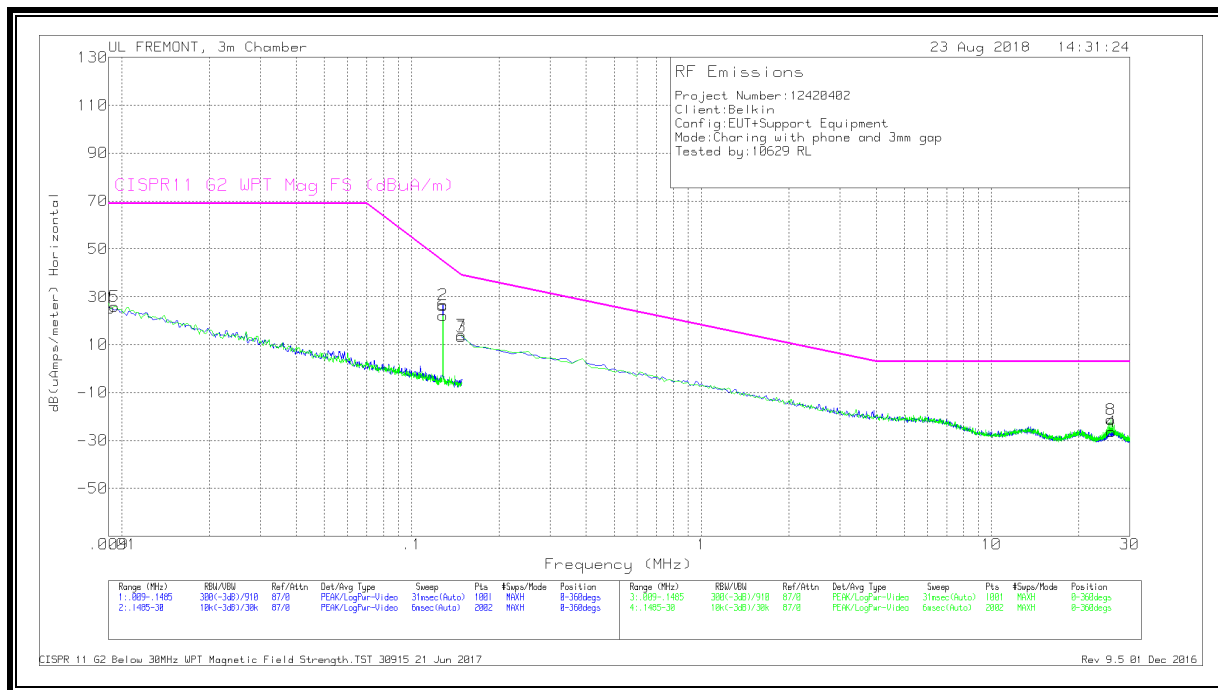


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	.00928	55.38	Pk	-31.2	1.4	25.58	69	-43.42	0-360
5	.00928	55.74	Pk	-31.2	1.4	25.94	69	-43.06	0-360
2	.12814	58.04	Pk	-40.1	1.4	19.34	44.88	-25.54	0-360
6	.12814	52.77	Pk	-40.1	1.4	14.07	44.88	-30.81	0-360
3	.1485	50.12	Pk	-40.1	1.4	11.42	39	-27.58	0-360
7	.1485	49.62	Pk	-40.1	1.4	10.92	39	-28.08	0-360
4	25.64336	13.46	Pk	-42.2	1.7	-27.04	3	-30.04	0-360
8	25.9268	16.47	Pk	-42.3	1.7	-24.13	3	-27.13	0-360

Pk - Peak detector

8.3.3. OPERATING WITH iPhone AT 3mm Gap

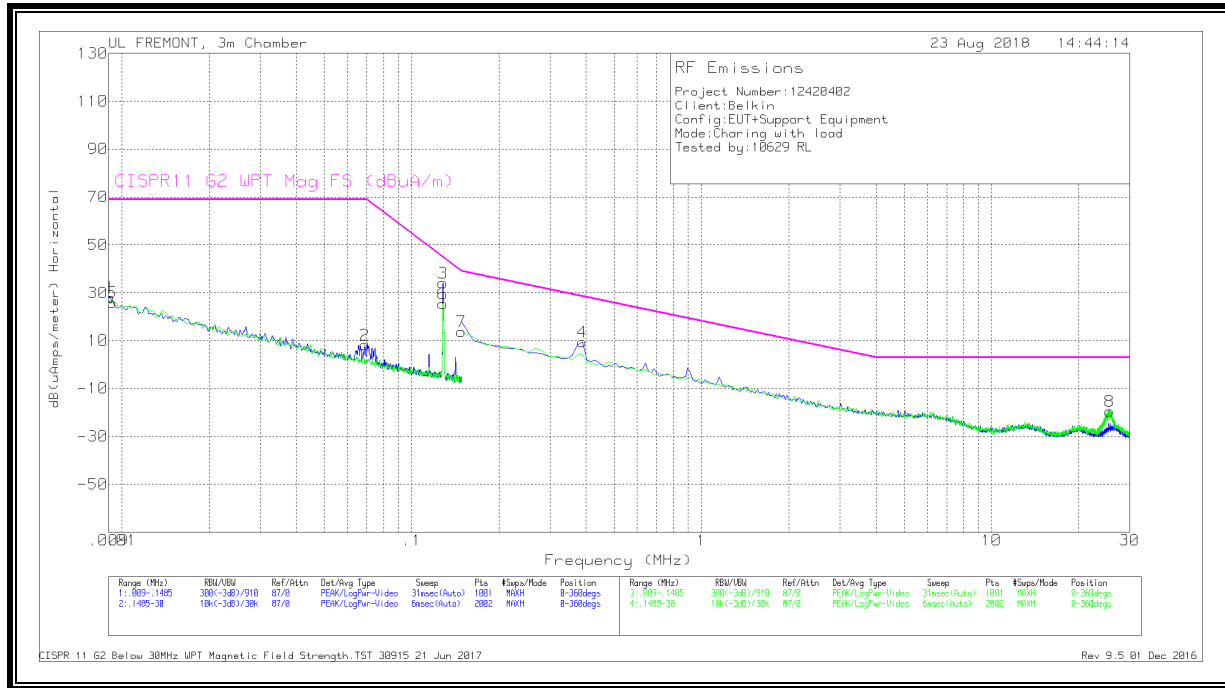


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	.00914	55.02	Pk	-31.1	1.4	25.32	69	-43.68	0-360
5	.00942	56.04	Pk	-31.4	1.4	26.04	69	-42.96	0-360
2	.12814	65.51	Pk	-40.1	1.4	26.81	44.88	-18.07	0-360
6	.12814	60.96	Pk	-40.1	1.4	22.26	44.88	-22.62	0-360
3	.1485	51.92	Pk	-40.1	1.4	13.22	39	-25.78	0-360
7	.1485	52.68	Pk	-40.1	1.4	13.98	39	-25.02	0-360
8	25.79254	19.36	Pk	-42.3	1.7	-21.24	3	-24.24	0-360
4	25.88205	14.38	Pk	-42.3	1.7	-26.22	3	-29.22	0-360

Pk - Peak detector

8.3.4. OPERATING WITH 10W LOAD

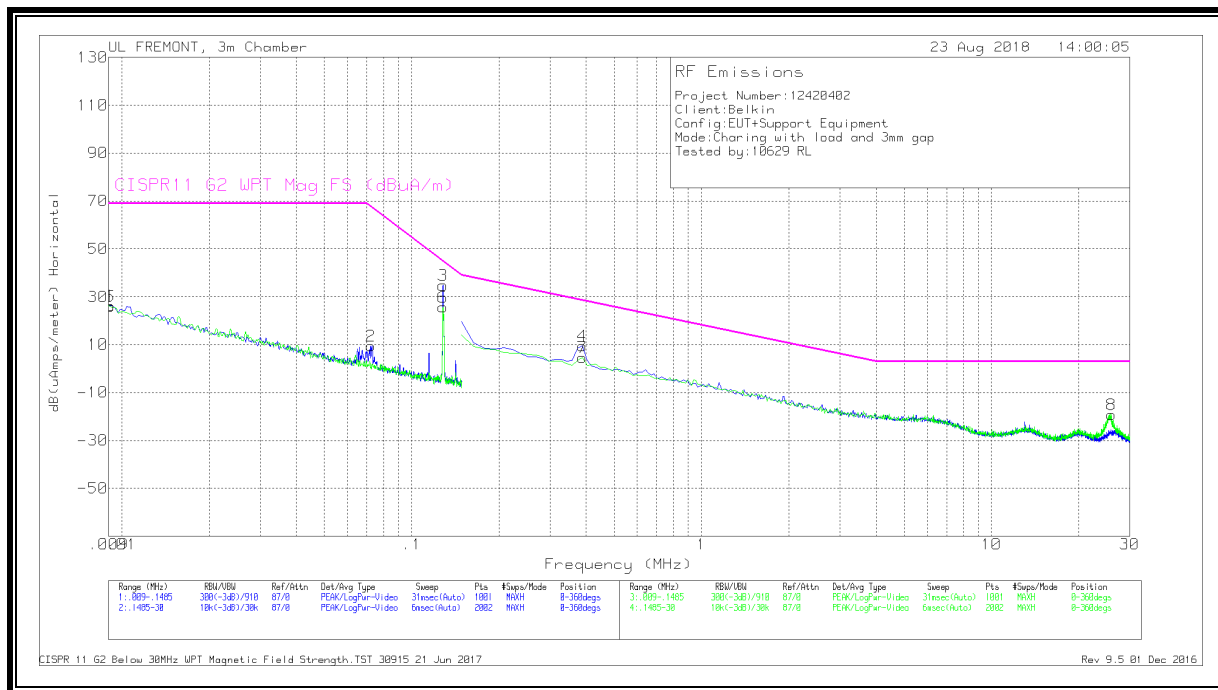


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	.00914	57.71	Pk	-31.1	1.4	28.01	69	-40.99	0-360
5	.00928	55.85	Pk	-31.2	1.4	26.05	69	-42.95	0-360
2	.06906	46.14	Pk	-39.3	1.4	8.24	69	-60.76	0-360
3	.12814	72.76	Pk	-40.1	1.4	34.06	44.88	-10.82	0-360
6	.12814	64.08	Pk	-40.1	1.4	25.38	44.88	-19.5	0-360
7	.1485	52.46	Pk	-40.1	1.4	13.76	39	-25.24	0-360
4	.38719	48.49	Pk	-40.6	1.5	9.39	28.52	-19.13	0-360
8	25.60607	21.15	Pk	-42.2	1.7	-19.35	3	-22.35	0-360

Pk - Peak detector

8.3.5. OPERATING WITH 10W LOAD AT 3mm Gap



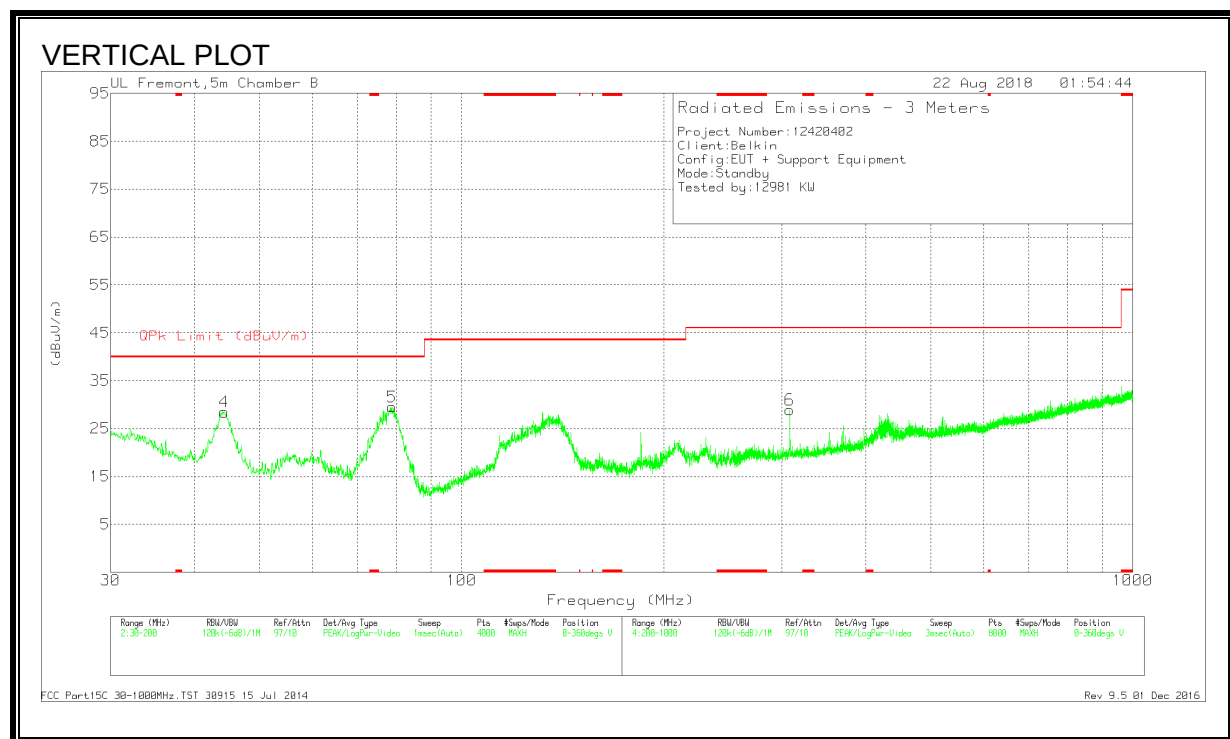
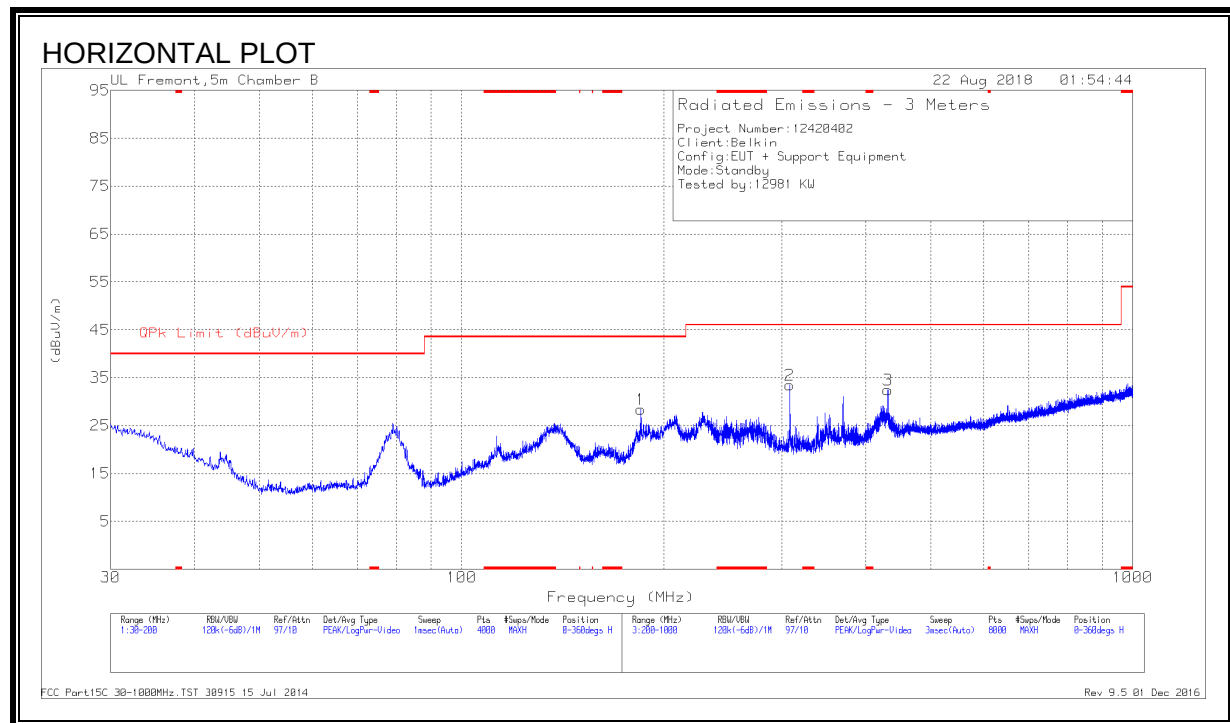
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	.00914	55.97	Pk	-31.1	1.4	26.27	69	-42.73	0-360
5	.00914	55.64	Pk	-31.1	1.4	25.94	69	-43.06	0-360
2	.07228	47.42	Pk	-39.3	1.4	9.52	67.72	-58.2	0-360
3	.12814	73.45	Pk	-40.1	1.4	34.75	44.88	-10.13	0-360
6	.12814	64.37	Pk	-40.1	1.4	25.67	44.88	-19.21	0-360
4	.38719	48.62	Pk	-40.6	1.5	9.52	28.52	-19	0-360
7	.38719	43.84	Pk	-40.6	1.5	4.74	28.52	-23.78	0-360
8	25.9268	21.46	Pk	-42.3	1.7	-19.14	3	-22.14	0-360

Pk - Peak detector

8.4. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

8.4.1. STANDBY CONFIGURATION

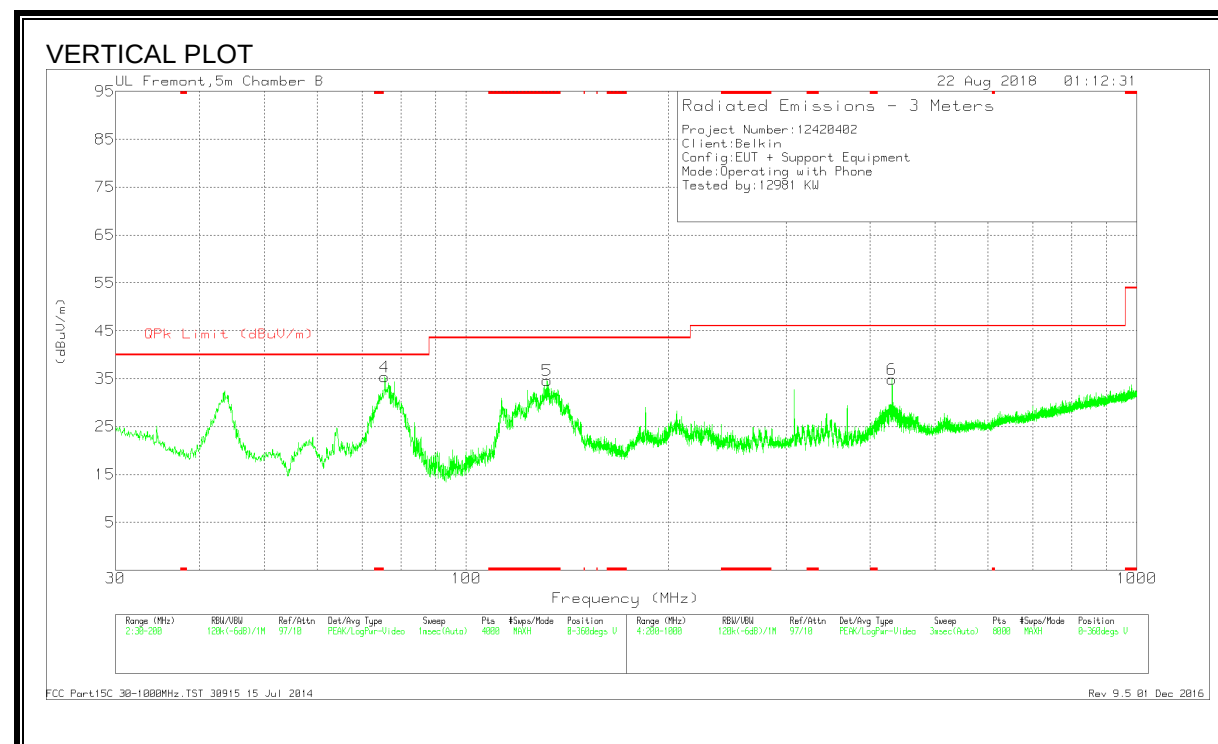
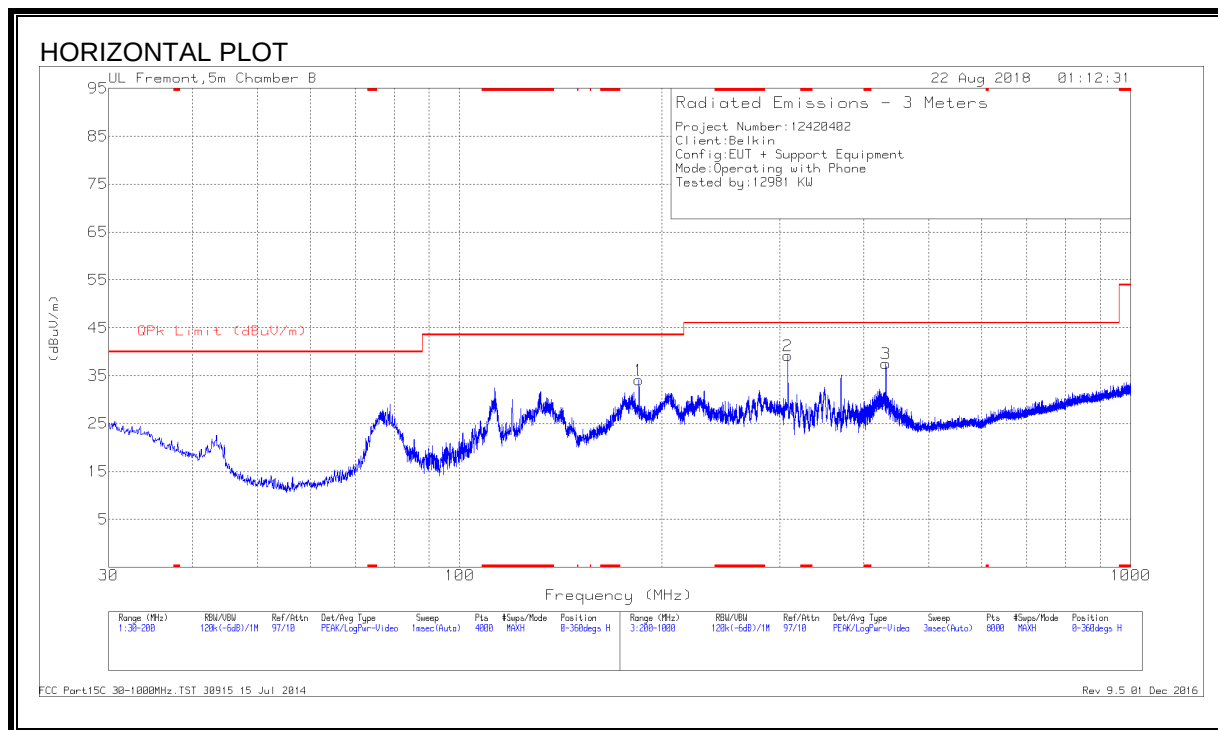


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	44.2837	42.16	Pk	14.9	-28.6	28.46	40	-11.54	0-360	100	V
5	78.7601	45.99	Pk	11.7	-28.2	29.49	40	-10.51	0-360	100	V
1	185.0376	40.24	Pk	15.2	-27	28.44	43.52	-15.08	0-360	200	H
2	308.4141	41.69	Pk	17.6	-25.8	33.49	46.02	-12.53	0-360	100	H
6	308.4141	37.16	Pk	17.6	-25.8	28.96	46.02	-17.06	0-360	100	V
3	431.7301	37.88	Pk	20.5	-25.9	32.48	46.02	-13.54	0-360	100	H

Pk - Peak detector

8.4.2. OPERATING WITH PHONE



DATA

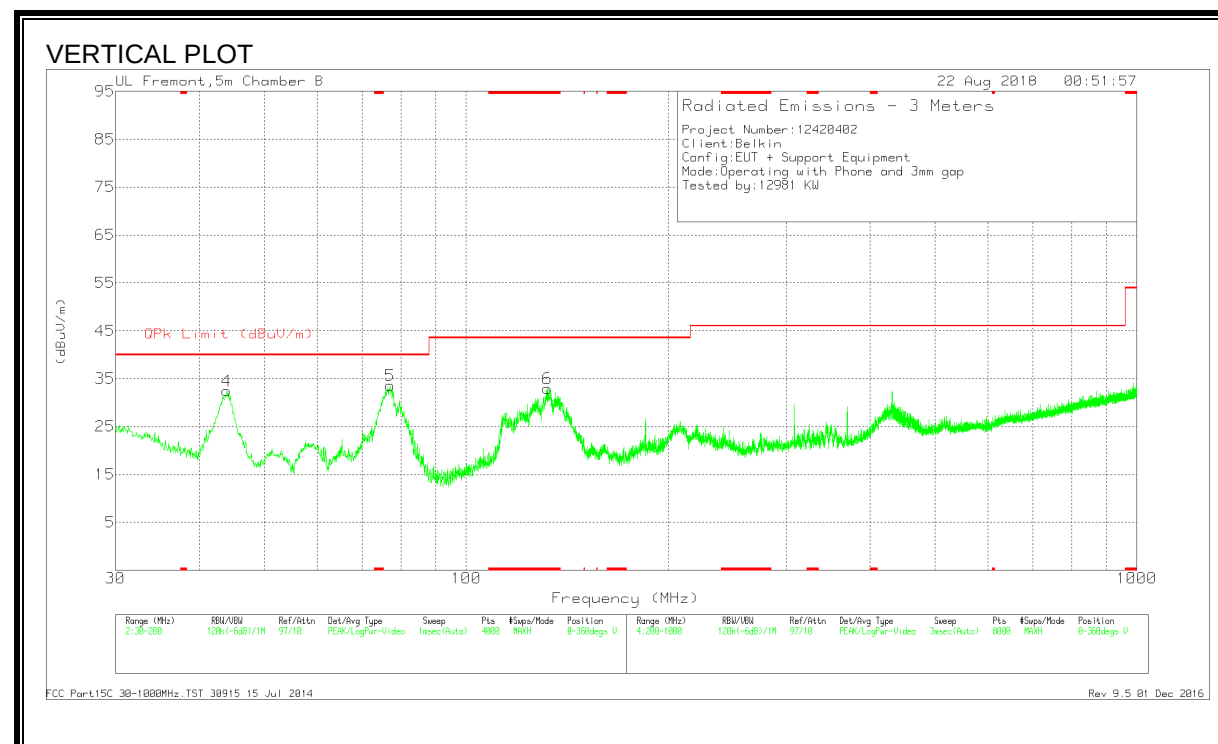
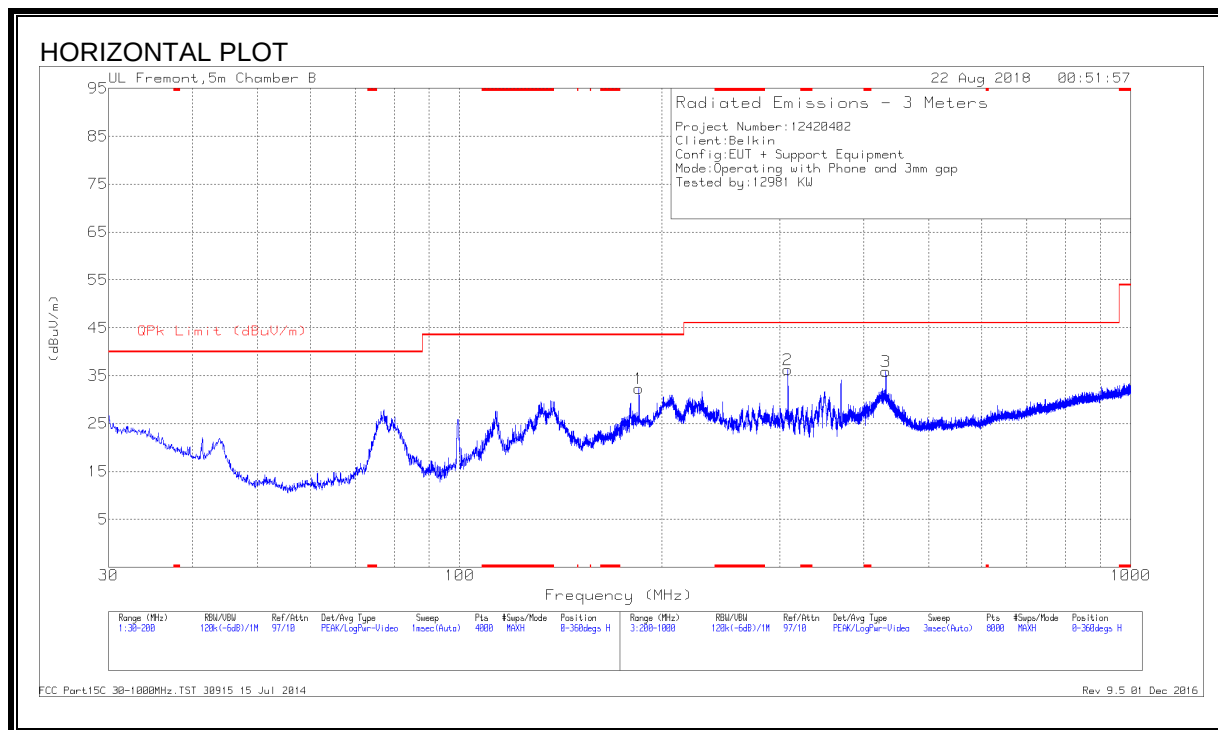
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 132.0264	44.6	Pk	17.6	-27.6	34.6	43.52	-8.92	0-360	100	V
4	75.6143	51.7	Pk	11.9	-28.2	35.4	40	-4.6	0-360	100	V
		48.2	Qp	11.9	-28.2	31.9	40	-8.1	33	149	V
1	185.0376	45.89	Pk	15.2	-27	34.09	43.52	-9.43	0-360	200	H
2	308.3141	47.43	Pk	17.6	-25.8	39.23	46.02	-6.79	0-360	100	H
6	431.6301	40.21	Pk	20.5	-25.9	34.81	46.02	-11.21	0-360	100	V
3	431.7301	42.95	Pk	20.5	-25.9	37.55	46.02	-8.47	0-360	100	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.4.3. OPERATING WITH PHONE 3mm Gap



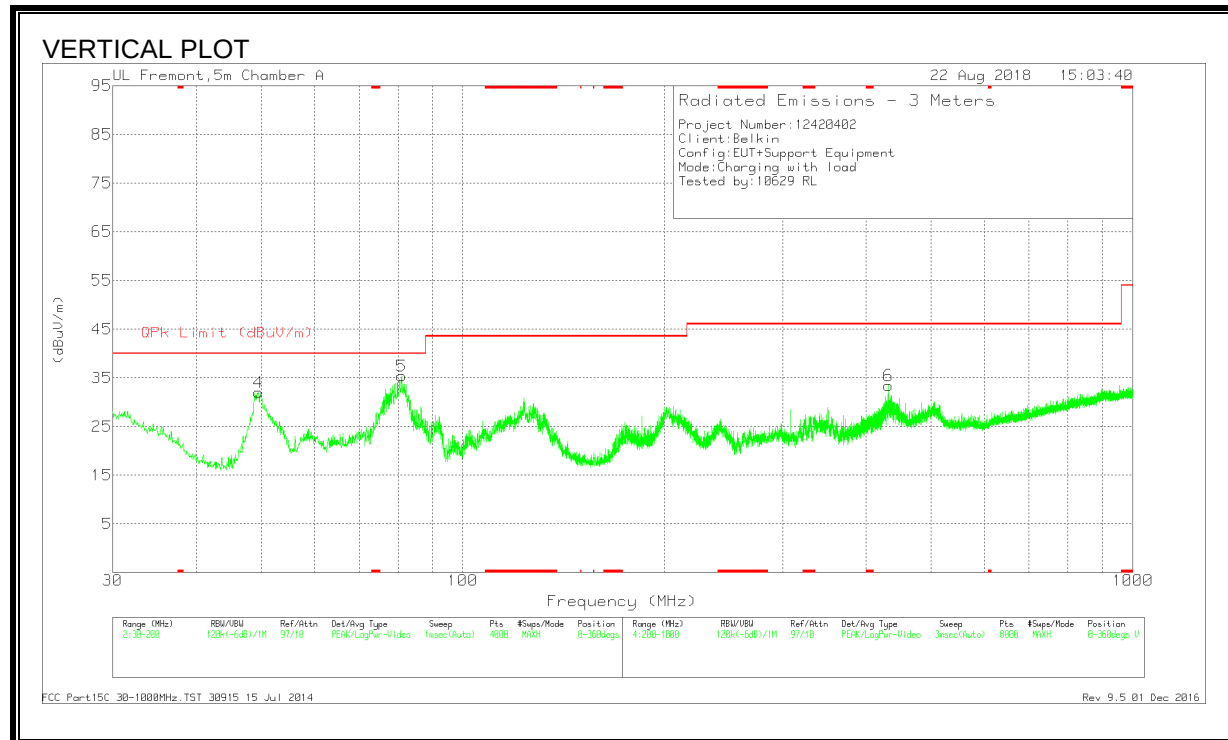
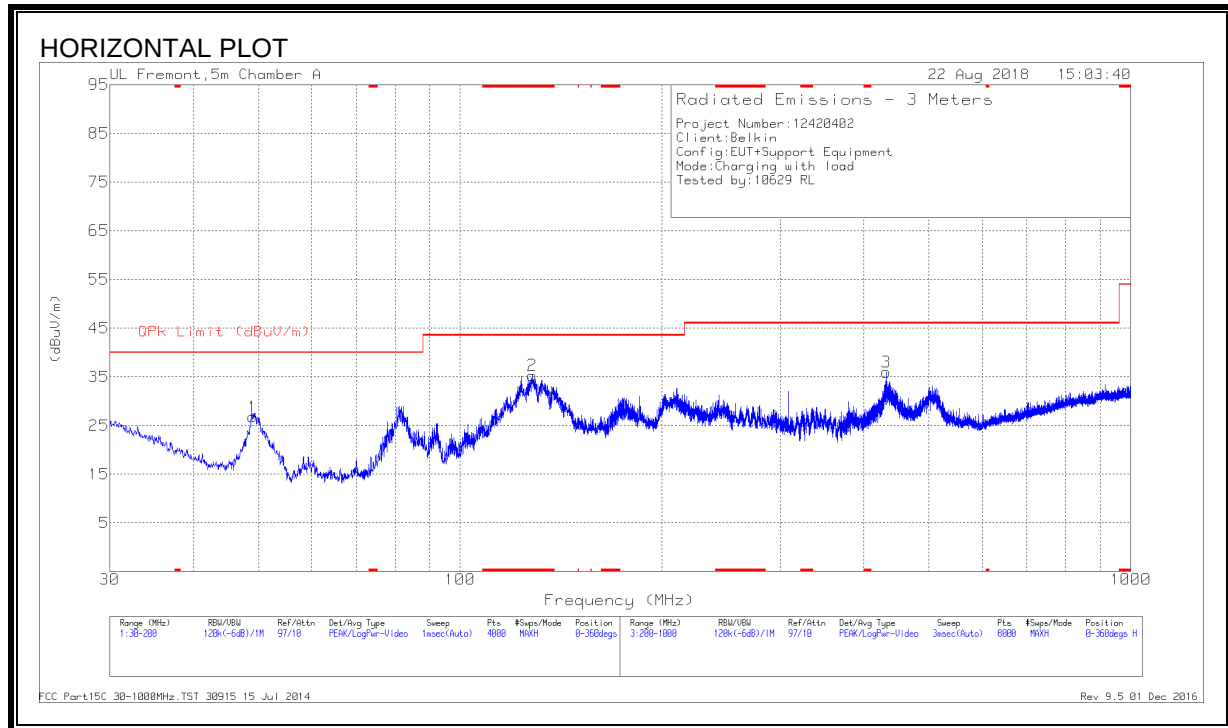
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 132.2815	43.01	Pk	17.6	-27.6	33.01	43.52	-10.51	0-360	100	V
4	43.9436	45.93	Pk	15.1	-28.6	32.43	40	-7.57	0-360	100	V
5	76.9747	49.92	Pk	11.9	-28.2	33.62	40	-6.38	0-360	100	V
1	185.0376	44.08	Pk	15.2	-27	32.28	43.52	-11.24	0-360	200	H
2	308.4141	44.47	Pk	17.6	-25.8	36.27	46.02	-9.75	0-360	100	H
3	431.7301	41.24	Pk	20.5	-25.9	35.84	46.02	-10.18	0-360	100	H

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

Pk - Peak detector

8.4.4. OPERATING WITH 10W LOAD



DATA

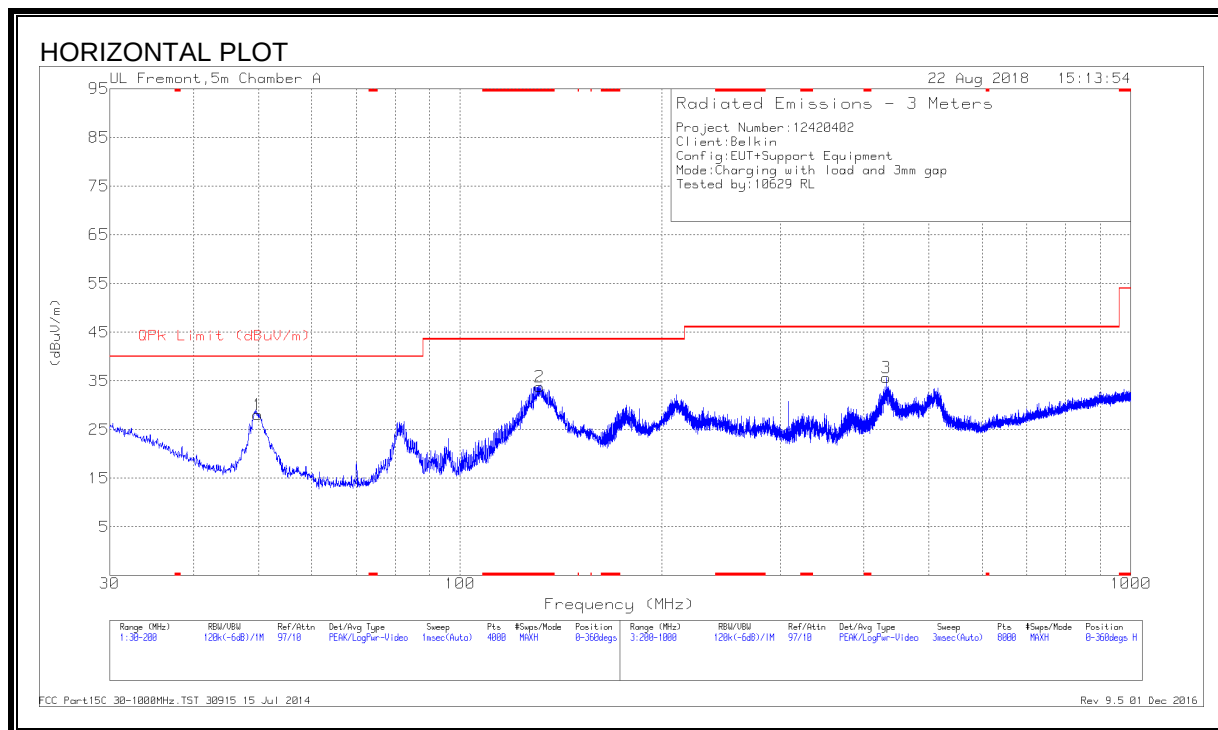
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 128.0729	43.31	Pk	18.1	-26.1	35.31	43.52	-8.21	0-360	200	H
1	49.0237	41.78	Pk	12	-27	26.78	40	-13.22	0-360	200	H
4	49.5125	47.22	Pk	11.8	-27	32.02	40	-7.98	0-360	100	V
5	81.0132	50.59	Pk	11.4	-26.6	35.39	40	-4.61	0-360	100	V
		48.34	Qk	11.4	-26.6	33.14	40	-6.86	41	147	V
6	431.7301	38.01	Pk	20.6	-25.2	33.41	46.02	-12.61	0-360	101	V
3	431.8301	40.58	Pk	20.6	-25.2	35.98	46.02	-10.04	0-360	101	H
2	* 128.0729	43.31	Pk	18.1	-26.1	35.31	43.52	-8.21	0-360	200	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.4.5. OPERATING WITH 10W LOAD AT 3MM GAP



DATA

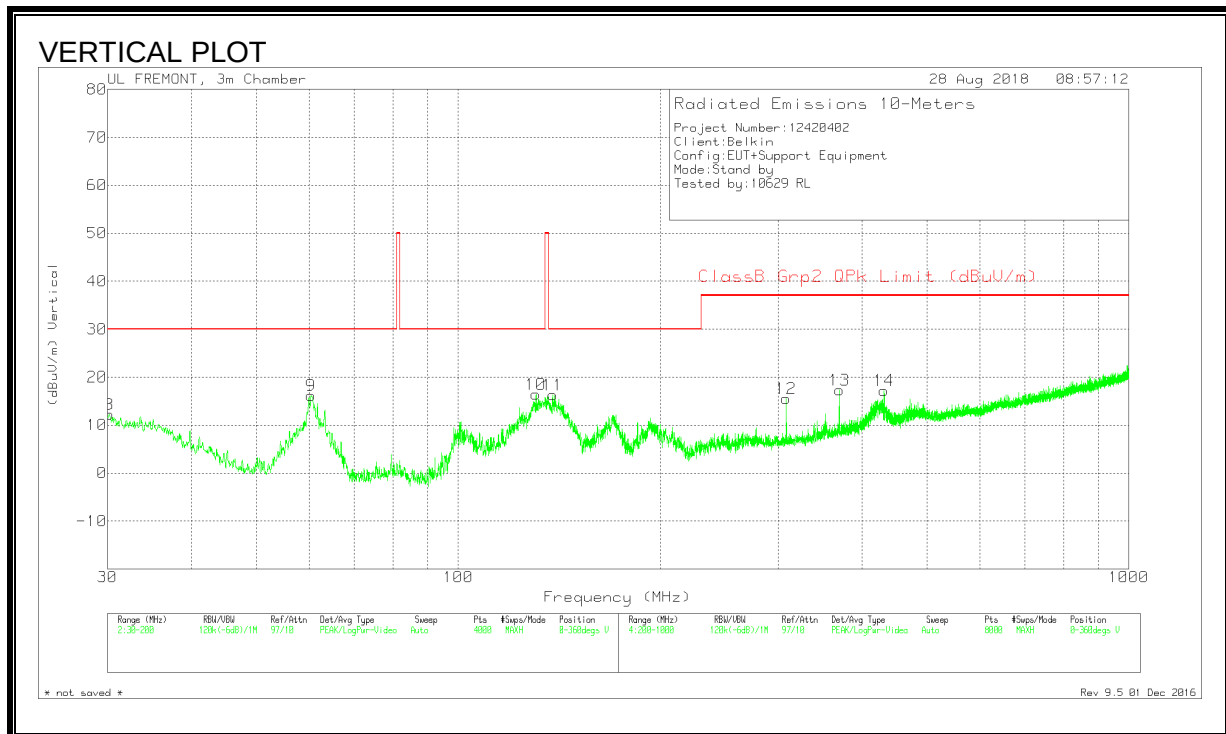
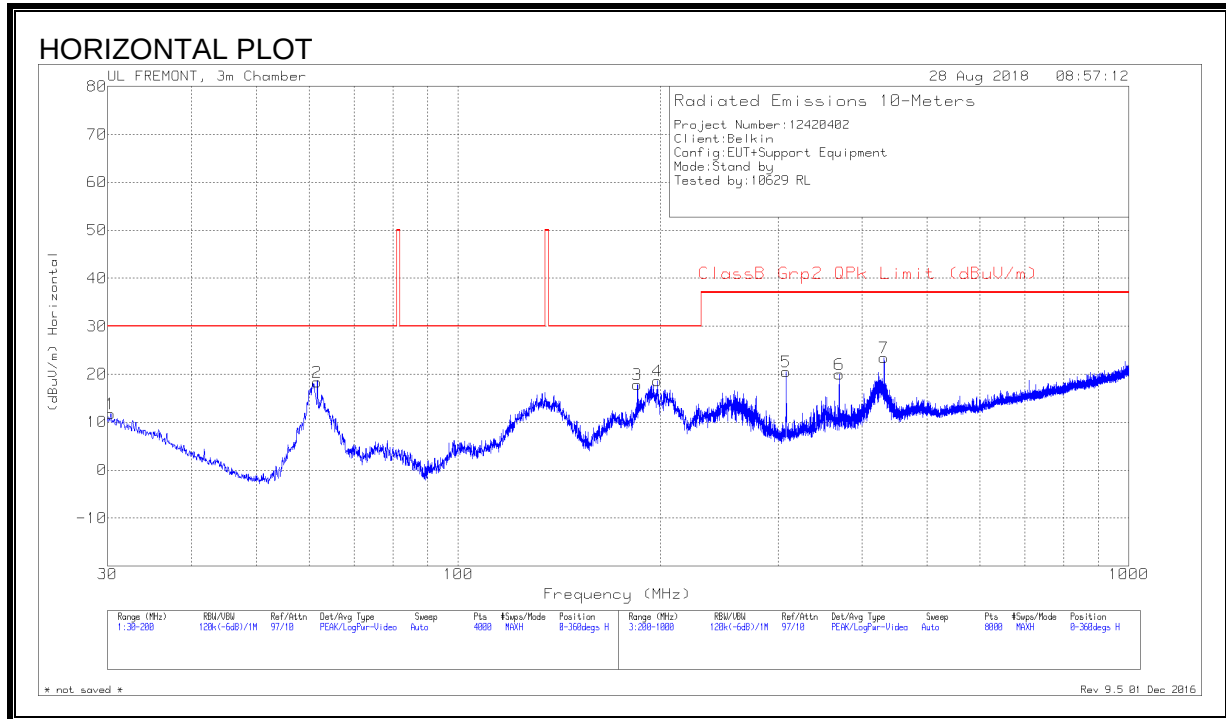
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 131.3037	41.91	Pk	17.9	-26	33.81	43.52	-9.71	0-360	200	H
4	49.5976	47.18	Pk	11.8	-27	31.98	40	-8.02	0-360	100	V
1	49.8951	43.44	Pk	11.6	-27	28.04	40	-11.96	0-360	300	H
5	80.5456	48.11	Pk	11.4	-26.6	32.91	40	-7.09	0-360	100	V
3	431.7301	40.28	Pk	20.6	-25.2	35.68	46.02	-10.34	0-360	101	H
6	431.7301	39.17	Pk	20.6	-25.2	34.57	46.02	-11.45	0-360	101	V
2	* 131.3037	41.91	Pk	17.9	-26	33.81	43.52	-9.71	0-360	200	H

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

Pk - Peak detector

8.5. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

8.5.1. STANDBY CONFIGURATION

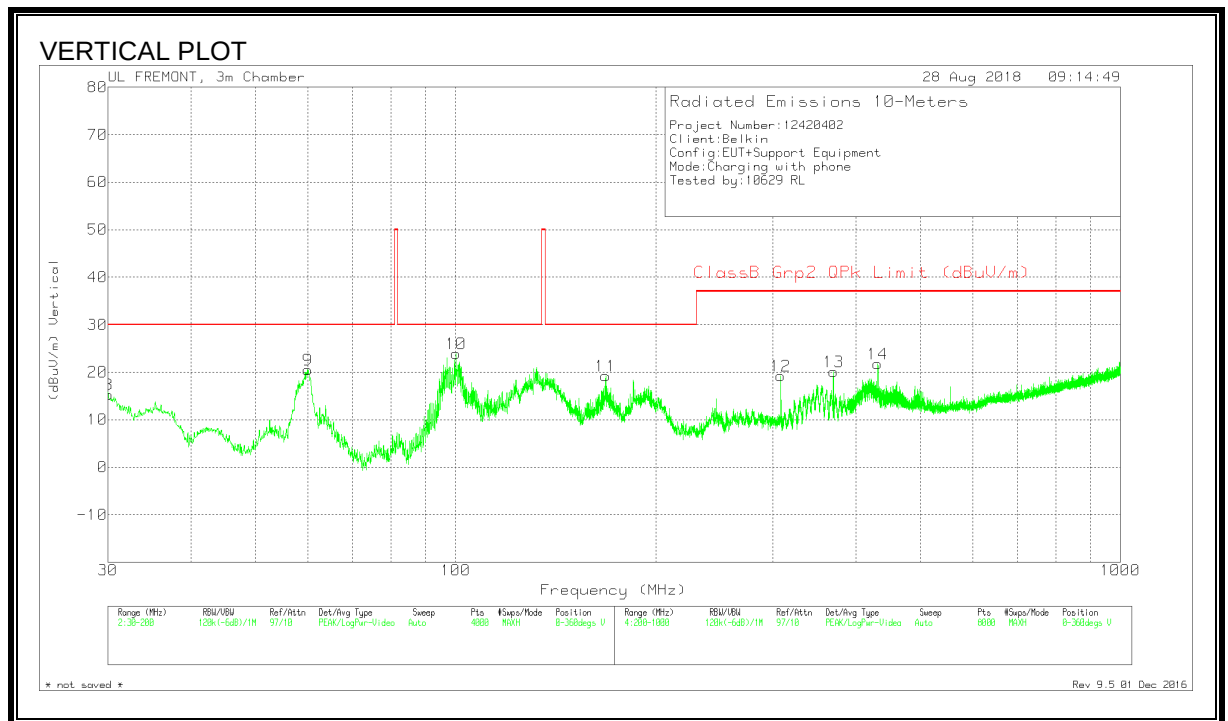
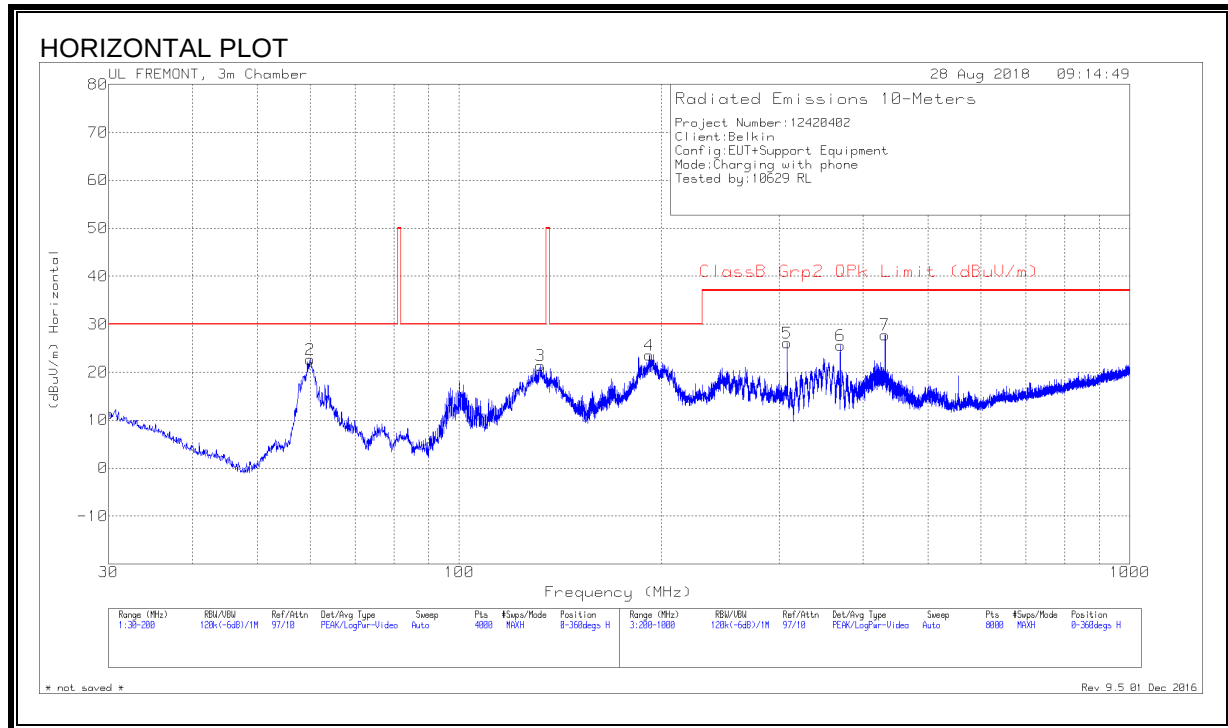


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Distance Factor	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	30.17	28.49	Pk	25.4	-31.1	-10.5	12.29	30	-17.71	0-360	100	V
1	30.2975	28.06	Pk	25.3	-31.1	-10.5	11.76	30	-18.24	0-360	300	H
9	60.3025	45.92	Pk	11.5	-30.7	-10.5	16.22	30	-13.78	0-360	100	V
2	61.62	47.9	Pk	11.6	-30.7	-10.5	18.3	30	-11.7	0-360	300	H
10	130.64	39.08	Pk	17.9	-30	-10.5	16.48	30	-13.52	0-360	100	V
11	138.29	39.43	Pk	17.3	-29.9	-10.5	16.33	30	-13.67	0-360	100	V
3	185.04	42.72	Pk	15.1	-29.5	-10.5	17.82	30	-12.18	0-360	100	H
4	197.96	42.09	Pk	16.4	-29.4	-10.5	18.59	30	-11.41	0-360	100	H
5	308.4	42.13	Pk	17.6	-28.7	-10.5	20.53	37	-16.47	0-360	100	H
12	308.4	37.19	Pk	17.6	-28.7	-10.5	15.59	37	-21.41	0-360	100	V
6	370	39.81	Pk	19	-28.3	-10.5	20.01	37	-16.99	0-360	200	H
13	370.1	37.09	Pk	19	-28.3	-10.5	17.29	37	-19.71	0-360	200	V
7	431.7	41.34	Pk	20.6	-28	-10.5	23.44	37	-13.56	0-360	200	H
14	431.7	35.16	Pk	20.6	-28	-10.5	17.26	37	-19.74	0-360	200	V

Pk - Peak detector

8.5.2. OPERATING WITH PHONE

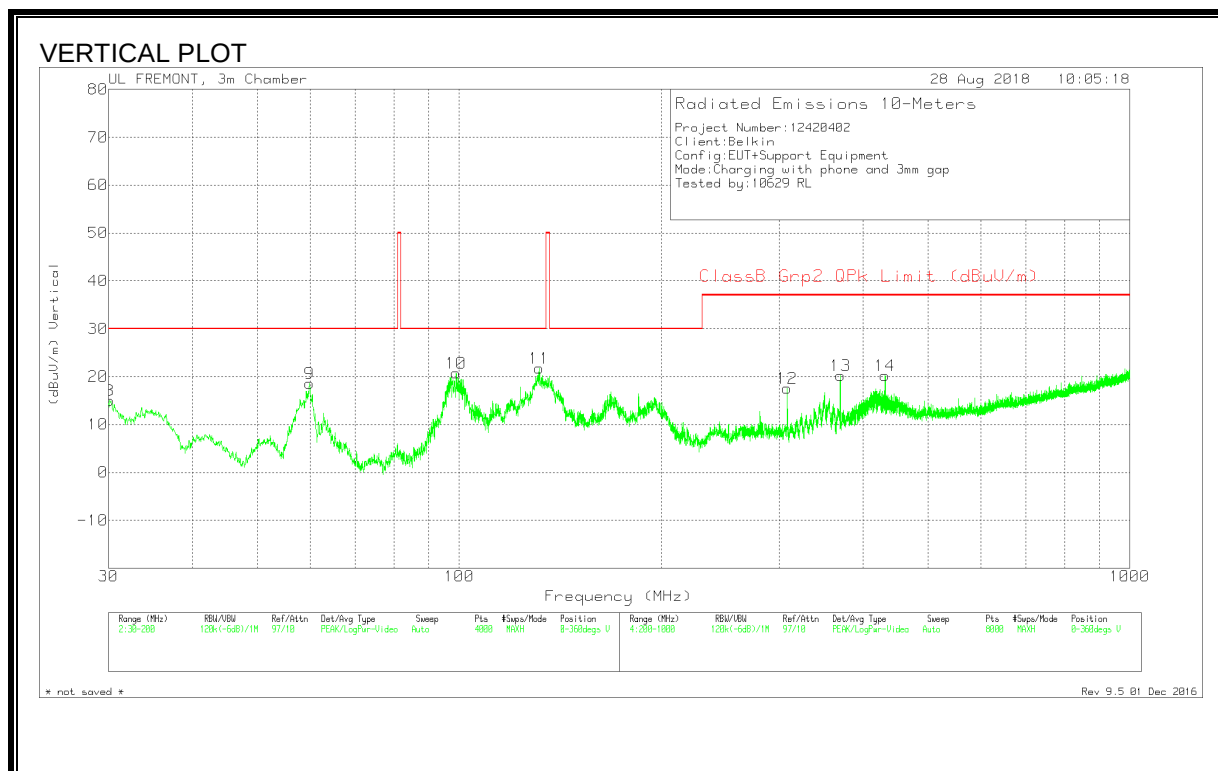
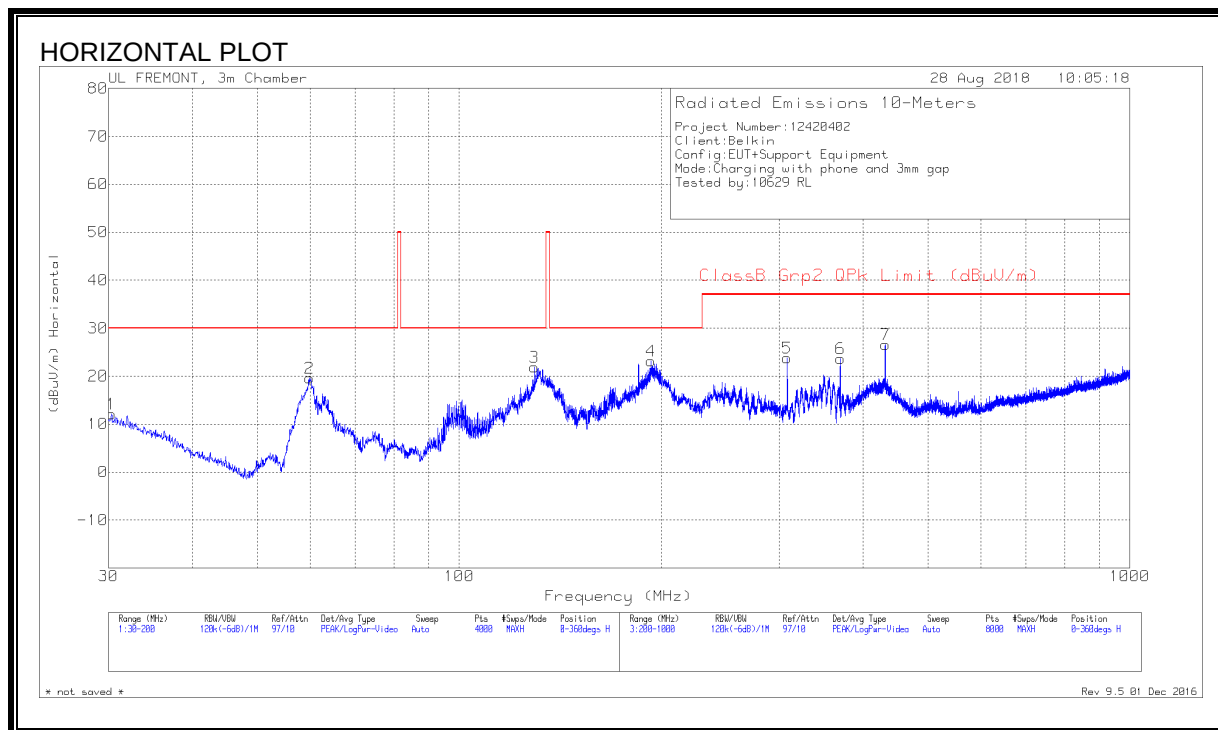


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Dist Corr (dB) 20Log	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	30.0425	31.45	Pk	25.5	-31.1	-10.5	15.35	30	-14.65	0-360	100	V
1	30.085	27.62	Pk	25.4	-31.1	-10.5	11.42	30	-18.58	0-360	300	H
9	59.92	50.2	Pk	11.5	-30.7	-10.5	20.5	30	-9.5	0-360	100	V
2	59.9625	52.37	Pk	11.5	-30.7	-10.5	22.67	30	-7.33	0-360	300	H
10	100.125	50.47	Pk	14.3	-30.3	-10.5	23.97	30	-6.03	0-360	100	V
3	132.255	43.96	Pk	17.8	-29.9	-10.5	21.36	30	-8.64	0-360	400	H
11	168.1675	43.61	Pk	15.8	-29.7	-10.5	19.21	30	-10.79	0-360	100	V
4	192.18	48.08	Pk	15.5	-29.5	-10.5	23.58	30	-6.42	0-360	100	H
5	308.3	47.63	Pk	17.6	-28.7	-10.5	26.03	37	-10.97	0-360	100	H
12	308.4	40.81	Pk	17.6	-28.7	-10.5	19.21	37	-17.79	0-360	300	V
6	370.1	45.37	Pk	19	-28.3	-10.5	25.57	37	-11.43	0-360	200	H
13	370.1	39.88	Pk	19	-28.3	-10.5	20.08	37	-16.92	0-360	200	V
7	431.7	45.7	Pk	20.6	-28	-10.5	27.8	37	-9.2	0-360	200	H
14	431.7	39.64	Pk	20.6	-28	-10.5	21.74	37	-15.26	0-360	200	V

Pk - Peak detector

8.5.3. OPERATING WITH iPhone AT 3mm Gap

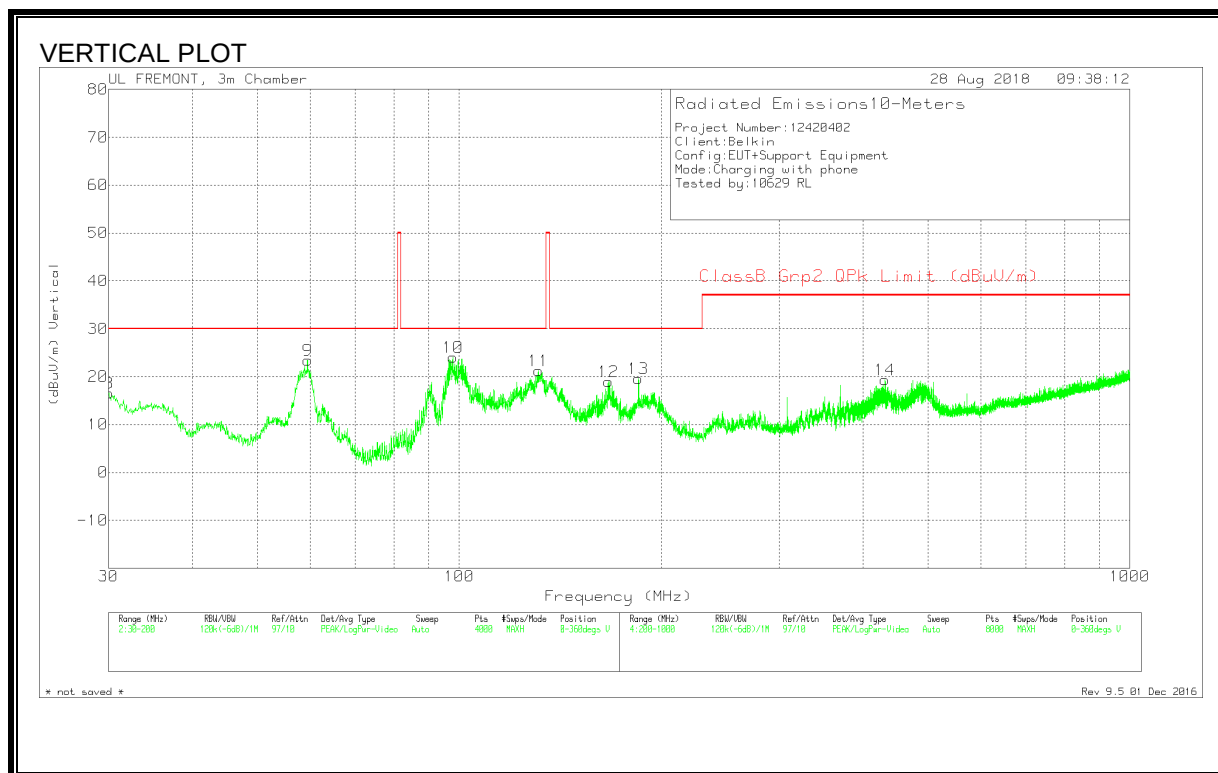
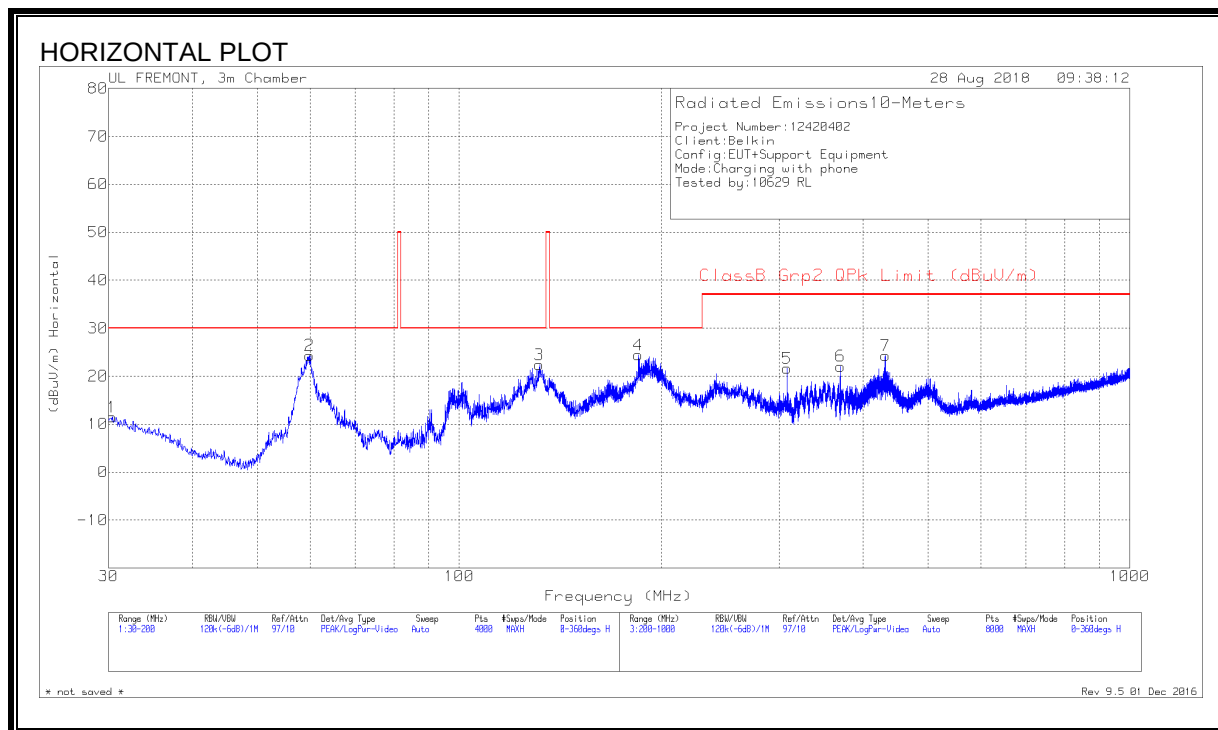


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Dist Corr (dB) 20Log	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	30.1275	31.2	Pk	25.4	-31.1	-10.5	15	30	-15	0-360	100	V
1	30.2975	28.37	Pk	25.3	-31.1	-10.5	12.07	30	-17.93	0-360	100	H
2	59.835	49.26	Pk	11.5	-30.7	-10.5	19.56	30	-10.44	0-360	400	H
9	59.835	48.27	Pk	11.5	-30.7	-10.5	18.57	30	-11.43	0-360	100	V
10	98.9775	47.6	Pk	14	-30.3	-10.5	20.8	30	-9.2	0-360	100	V
3	129.4075	44.45	Pk	18	-30	-10.5	21.95	30	-8.05	0-360	200	H
11	131.5325	44.45	Pk	17.8	-30	-10.5	21.75	30	-8.25	0-360	100	V
4	193.2	47.6	Pk	15.6	-29.5	-10.5	23.2	30	-6.8	0-360	100	H
5	308.4	45.46	Pk	17.6	-28.7	-10.5	23.86	37	-13.14	0-360	100	H
12	308.4	39.24	Pk	17.6	-28.7	-10.5	17.64	37	-19.36	0-360	300	V
6	370.1	43.52	Pk	19	-28.3	-10.5	23.72	37	-13.28	0-360	200	H
13	370.1	40	Pk	19	-28.3	-10.5	20.2	37	-16.8	0-360	200	V
14	431.7	38.09	Pk	20.6	-28	-10.5	20.19	37	-16.81	0-360	200	V
7	431.8	44.55	Pk	20.6	-28	-10.5	26.65	37	-10.35	0-360	200	H

Pk - Peak detector

8.5.4. OPERATING WITH 10W LOAD



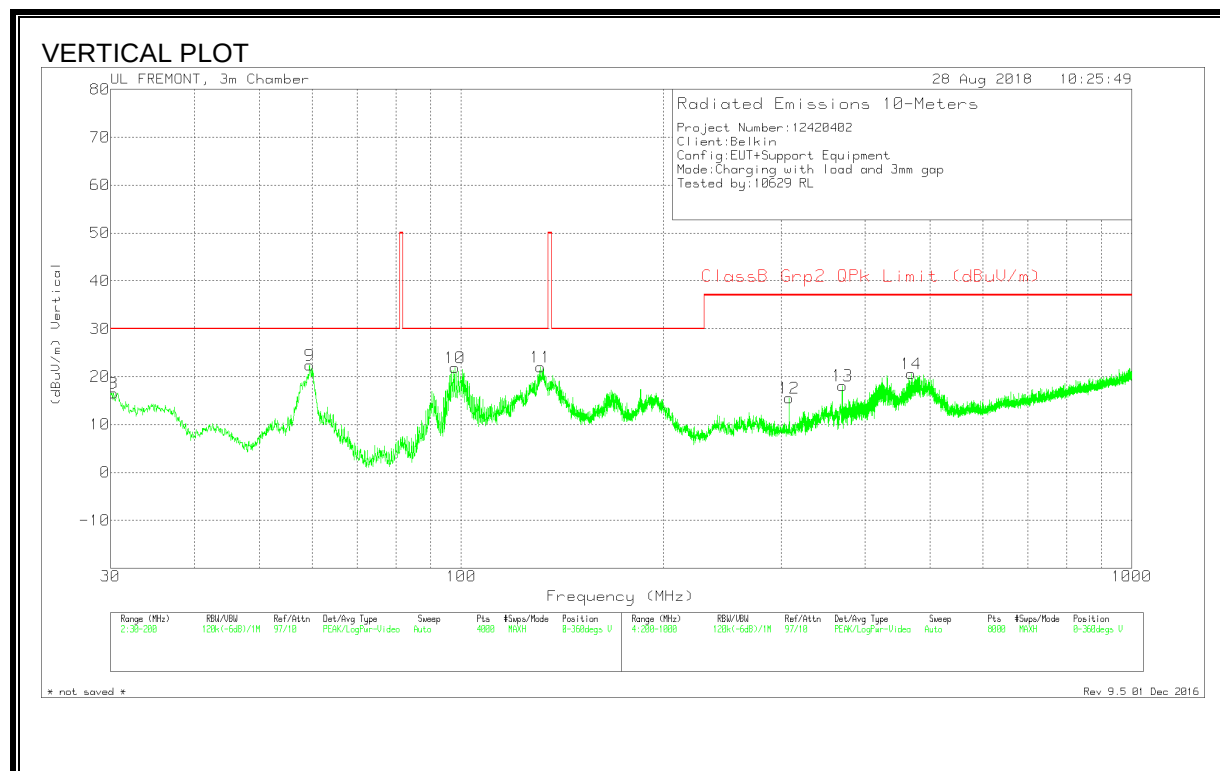
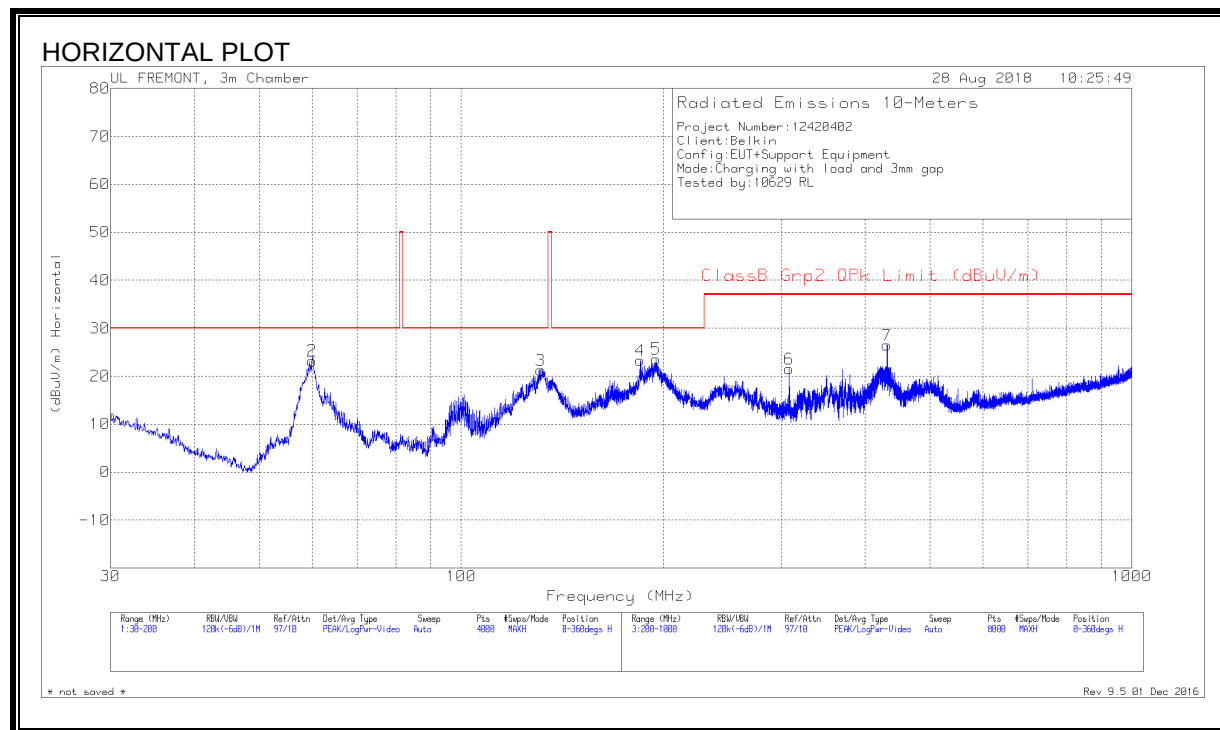
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Dist Corr (dB) 20Log	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	30.0425	32.69	Pk	25.5	-31.1	-10.5	16.59	30	-13.41	0-360	100	V
1	30.3825	27.89	Pk	25.2	-31.1	-10.5	11.49	30	-18.51	0-360	300	H
9	59.41	53.26	Pk	11.4	-30.7	-10.5	23.46	30	-6.54	0-360	100	V
2	59.7925	54.07	Pk	11.5	-30.7	-10.5	24.37	30	-5.63	0-360	300	H
	59.420	50.79	Qp	11.4	-30.7	-10.5	20.99	30	-9.01	228	370	H
10	97.7875	51.29	Pk	13.6	-30.3	-10.5	24.09	30	-5.91	0-360	100	V
	97.80	48.43	Qp	13.6	-30.3	-10.5	21.23	30	-8.77	360	118	V
11	131.235	43.89	Pk	17.9	-30	-10.5	21.29	30	-8.71	0-360	100	V
3	131.745	45.12	Pk	17.8	-30	-10.5	22.42	30	-7.58	0-360	200	H
12	167.0625	43.27	Pk	15.9	-29.7	-10.5	18.97	30	-11.03	0-360	100	V
4	185.04	49.31	Pk	15.1	-29.5	-10.5	24.41	30	-5.59	0-360	100	H
	185.0	44.21	Qp	15.1	-29.5	-10.5	19.31	30	-10.69	264	106	H
13	185.04	44.56	Pk	15.1	-29.5	-10.5	19.66	30	-10.34	0-360	100	V
5	308.4	43.29	Pk	17.6	-28.7	-10.5	21.69	37	-15.31	0-360	100	H
6	370.1	41.89	Pk	19	-28.3	-10.5	22.09	37	-14.91	0-360	200	H
14	431.7	37.3	Pk	20.6	-28	-10.5	19.4	37	-17.6	0-360	100	V
7	431.8	42.24	Pk	20.6	-28	-10.5	24.34	37	-12.66	0-360	200	H

Pk - Peak detector

Qp - Quasi-Peak detector

8.5.5. OPERATING WITH 10W LOAD AT 3mm Gap



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB/m)	Dist Corr (dB) 20Log	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0425	27.97	Pk	25.5	-31.1	-10.5	11.87	30	-18.13	0-360	100	H
8	30.2763	32.88	Pk	25.3	-31.1	-10.5	16.58	30	-13.42	0-360	100	V
9	59.41	52.21	Pk	11.4	-30.7	-10.5	22.41	30	-7.59	0-360	100	V
2	59.92	52.93	Pk	11.5	-30.7	-10.5	23.23	30	-6.77	0-360	300	H
10	97.83	49.12	Pk	13.6	-30.3	-10.5	21.92	30	-8.08	0-360	100	V
3	131.2775	43.81	Pk	17.9	-30	-10.5	21.21	30	-8.79	0-360	200	H
11	131.2775	44.6	Pk	17.9	-30	-10.5	22	30	-8	0-360	100	V
4	185.04	48.25	Pk	15.1	-29.5	-10.5	23.35	30	-6.65	0-360	100	H
5	195.07	47.61	Pk	15.9	-29.4	-10.5	23.61	30	-6.39	0-360	100	H
6	308.4	43.14	Pk	17.6	-28.7	-10.5	21.54	37	-15.46	0-360	100	H
12	308.4	37.11	Pk	17.6	-28.7	-10.5	15.51	37	-21.49	0-360	100	V
13	370.1	37.95	Pk	19	-28.3	-10.5	18.15	37	-18.85	0-360	200	V
7	431.7	44.4	Pk	20.6	-28	-10.5	26.5	37	-10.5	0-360	200	H
14	468.9	37.63	Pk	21.4	-27.9	-10.5	20.63	37	-16.37	0-360	100	V

Pk - Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

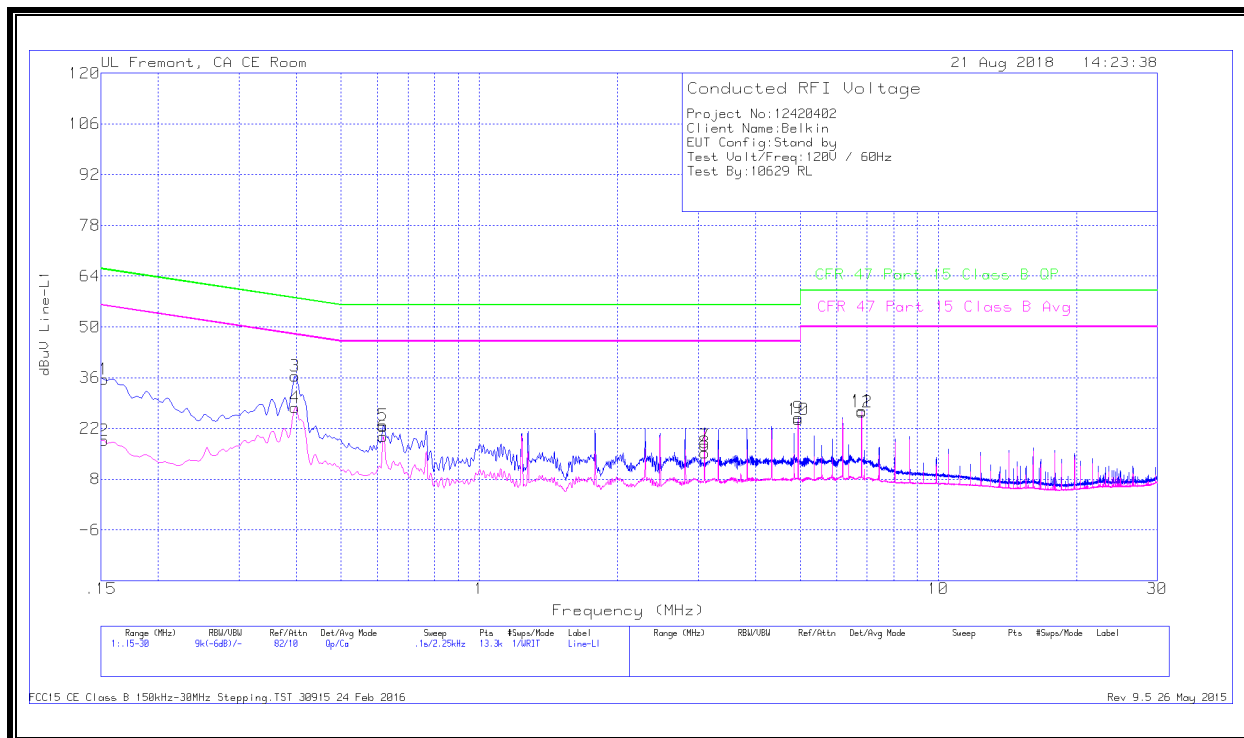
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

STANDBY MODE

LINE 1 RESULTS

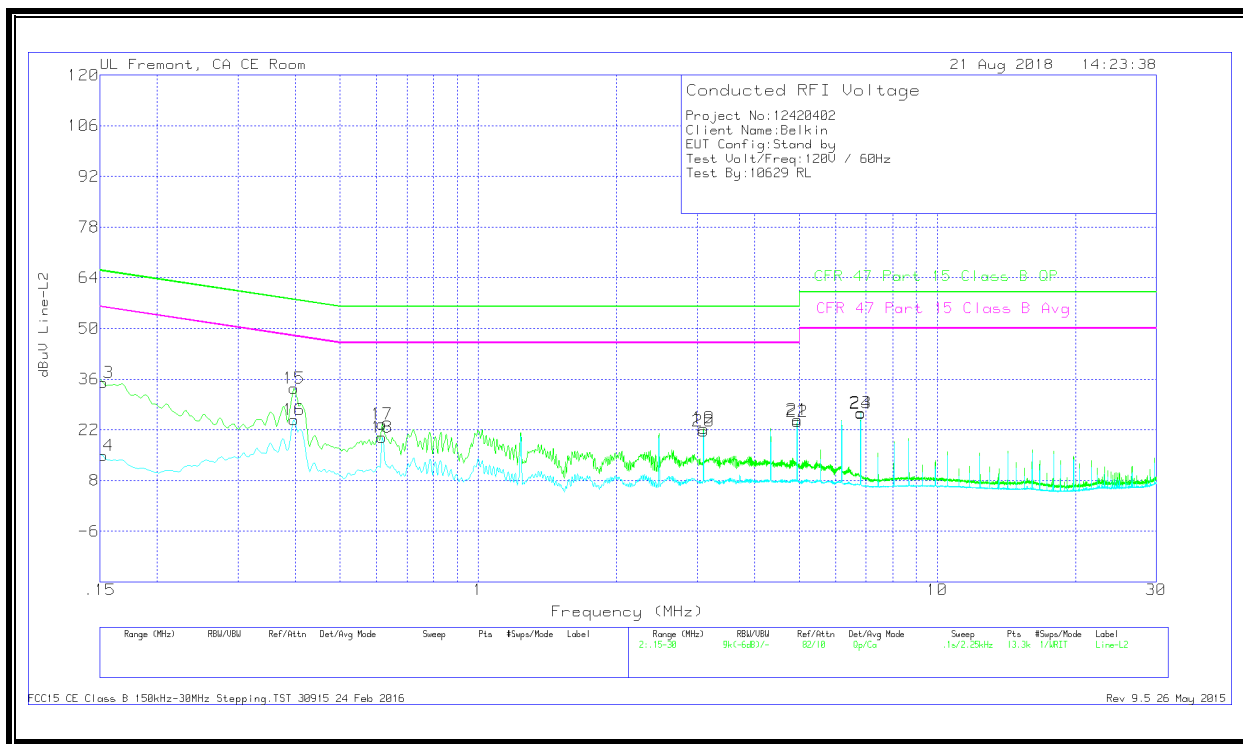


WORST EMISSIONS

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	.15225	25.39	Qp	.1	0	10.1	35.59	65.88	-30.29	-	-
2	.15225	8.47	Ca	.1	0	10.1	18.67	-	-	55.88	-37.21
3	.3975	26.31	Qp	0	0	10.1	36.41	57.91	-21.5	-	-
4	.3975	17.65	Ca	0	0	10.1	27.75	-	-	47.91	-20.16
5	.618	12.79	Qp	0	0	10.1	22.89	56	-33.11	-	-
6	.618	9.64	Ca	0	0	10.1	19.74	-	-	46	-26.26
7	3.09975	7.08	Qp	0	.1	10.1	17.28	56	-38.72	-	-
8	3.09975	5.12	Ca	0	.1	10.1	15.32	-	-	46	-30.68
9	4.9515	14.83	Qp	0	.1	10.1	25.03	56	-30.97	-	-
10	4.9515	14.24	Ca	0	.1	10.1	24.44	-	-	46	-21.56
11	6.81	16.51	Qp	0	.2	10.2	26.91	60	-33.09	-	-
12	6.81	16.13	Ca	0	.2	10.2	26.53	-	-	50	-23.47

Qp - Quasi-Peak detector
Ca - CISPR average detection

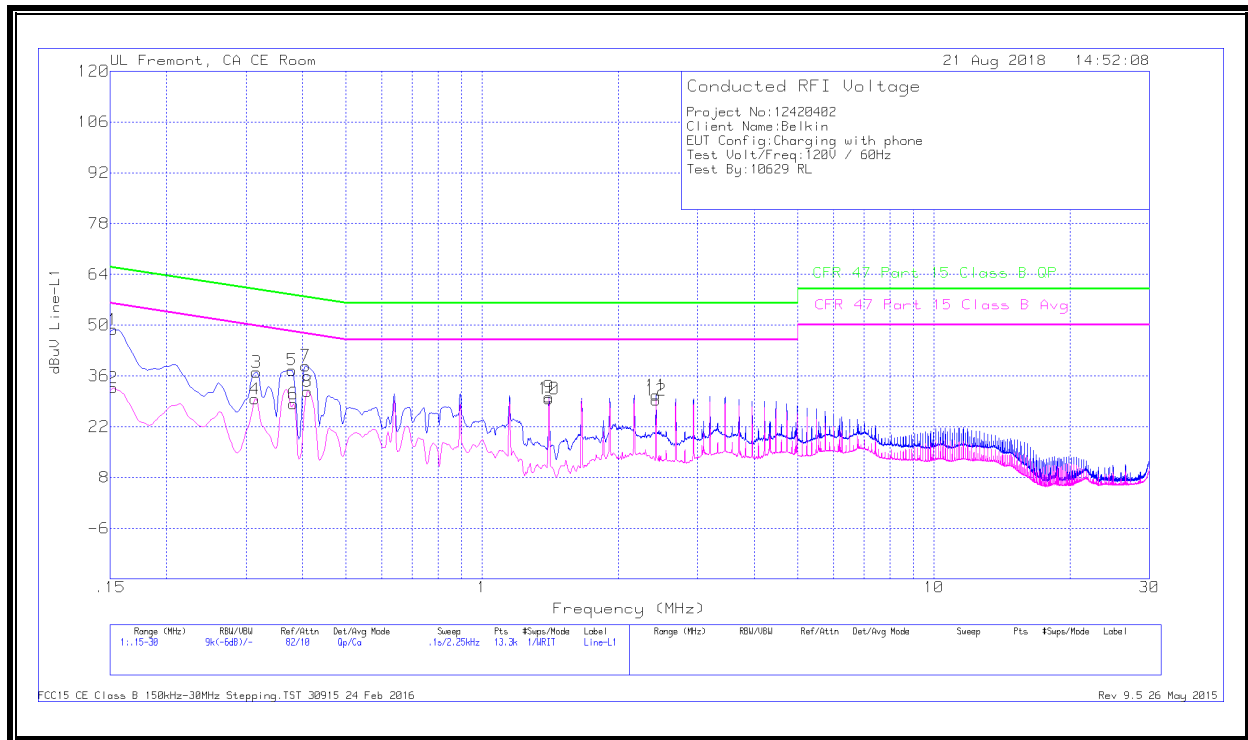
LINE 2 RESULTS



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	24.92	Qp	.1	0	10.1	35.12	65.88	-30.76	-	-
14	.15225	4.74	Ca	.1	0	10.1	14.94	-	-	55.88	-40.94
15	.3975	23.32	Qp	0	0	10.1	33.42	57.91	-24.49	-	-
16	.3975	14.66	Ca	0	0	10.1	24.76	-	-	47.91	-23.15
17	.618	13.49	Qp	0	0	10.1	23.59	56	-32.41	-	-
18	.618	9.79	Ca	0	0	10.1	19.89	-	-	46	-26.11
19	3.09525	12.25	Qp	0	.1	10.1	22.45	56	-33.55	-	-
20	3.09525	11.42	Ca	0	.1	10.1	21.62	-	-	46	-24.38
21	4.9515	14.64	Qp	0	.1	10.1	24.84	56	-31.16	-	-
22	4.9515	14.15	Ca	0	.1	10.1	24.35	-	-	46	-21.65
23	6.81	16.26	Qp	0	.2	10.2	26.66	60	-33.34	-	-
24	6.81	16.18	Ca	0	.2	10.2	26.58	-	-	50	-23.42

Qp - Quasi-Peak detector
Ca - CISPR average detection

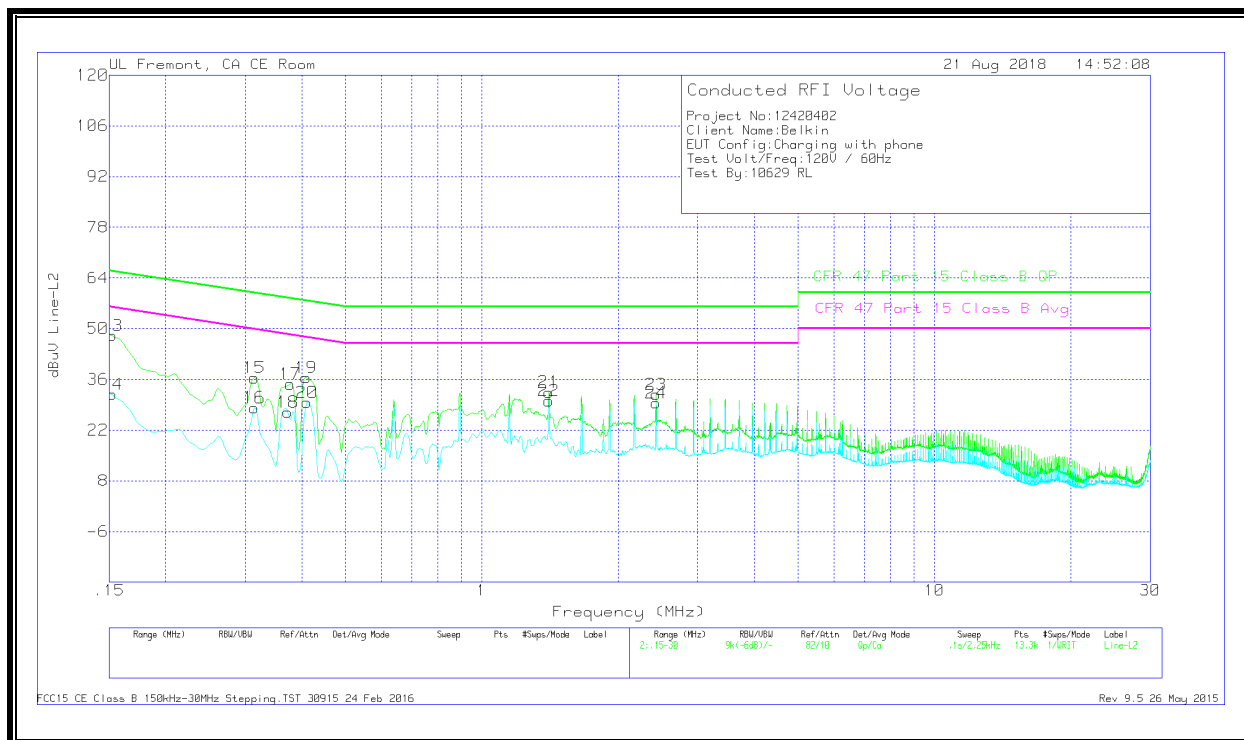
OPERATING MODE WITH PHONE**LINE 1 RESULTS****WORST EMISSIONS**

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	.15225	38.61	Qp	.1	0	10.1	48.81	65.88	-17.07	-	-
2	.15225	22.5	Ca	.1	0	10.1	32.7	-	-	55.88	-23.18
3	.3165	26.94	Qp	0	0	10.1	37.04	59.8	-22.76	-	-
4	.31425	19.57	Ca	0	0	10.1	29.67	-	-	49.86	-20.19
5	.3795	27.5	Qp	0	0	10.1	37.6	58.29	-20.69	-	-
6	.38175	18.22	Ca	0	0	10.1	28.32	-	-	48.24	-19.92
7	.4065	28.69	Qp	0	0	10.1	38.79	57.72	-18.93	-	-
8	.411	21.64	Ca	0	0	10.1	31.74	-	-	47.63	-15.89
9	1.4055	20.03	Qp	0	.1	10.1	30.23	56	-25.77	-	-
10	1.4055	19.51	Ca	0	.1	10.1	29.71	-	-	46	-16.29
11	2.427	20.49	Qp	0	.1	10.1	30.69	56	-25.31	-	-
12	2.427	19.18	Ca	0	.1	10.1	29.38	-	-	46	-16.62

Qp - Quasi-Peak detector

Ca - CISPR average detection

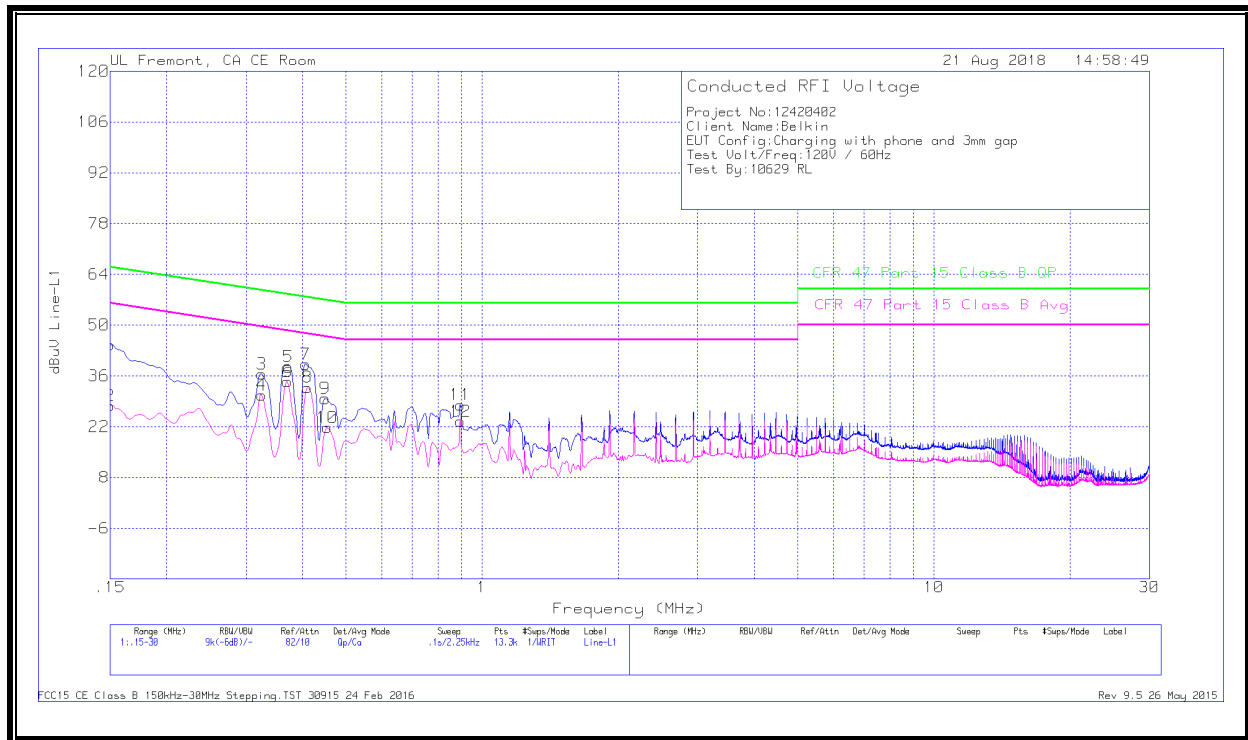
LINE 2 RESULTS



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	37.88	Qp	.1	0	10.1	48.08	65.88	-17.8	-	-
14	.15225	21.64	Ca	.1	0	10.1	31.84	-	-	55.88	-24.04
15	.31425	26.34	Qp	0	0	10.1	36.44	59.86	-23.42	-	-
16	.31425	18.06	Ca	0	0	10.1	28.16	-	-	49.86	-21.7
17	.37725	24.61	Qp	0	0	10.1	34.71	58.34	-23.63	-	-
18	.37275	16.84	Ca	0	0	10.1	26.94	-	-	48.44	-21.5
19	.40875	26.4	Qp	0	0	10.1	36.5	57.67	-21.17	-	-
20	.411	19.57	Ca	0	0	10.1	29.67	-	-	47.63	-17.96
21	1.4055	22.25	Qp	0	.1	10.1	32.45	56	-23.55	-	-
22	1.4055	19.9	Ca	0	.1	10.1	30.1	-	-	46	-15.9
23	2.427	21.65	Qp	0	.1	10.1	31.85	56	-24.15	-	-
24	2.427	19.32	Ca	0	.1	10.1	29.52	-	-	46	-16.48

Qp - Quasi-Peak detector
Ca - CISPR average detection

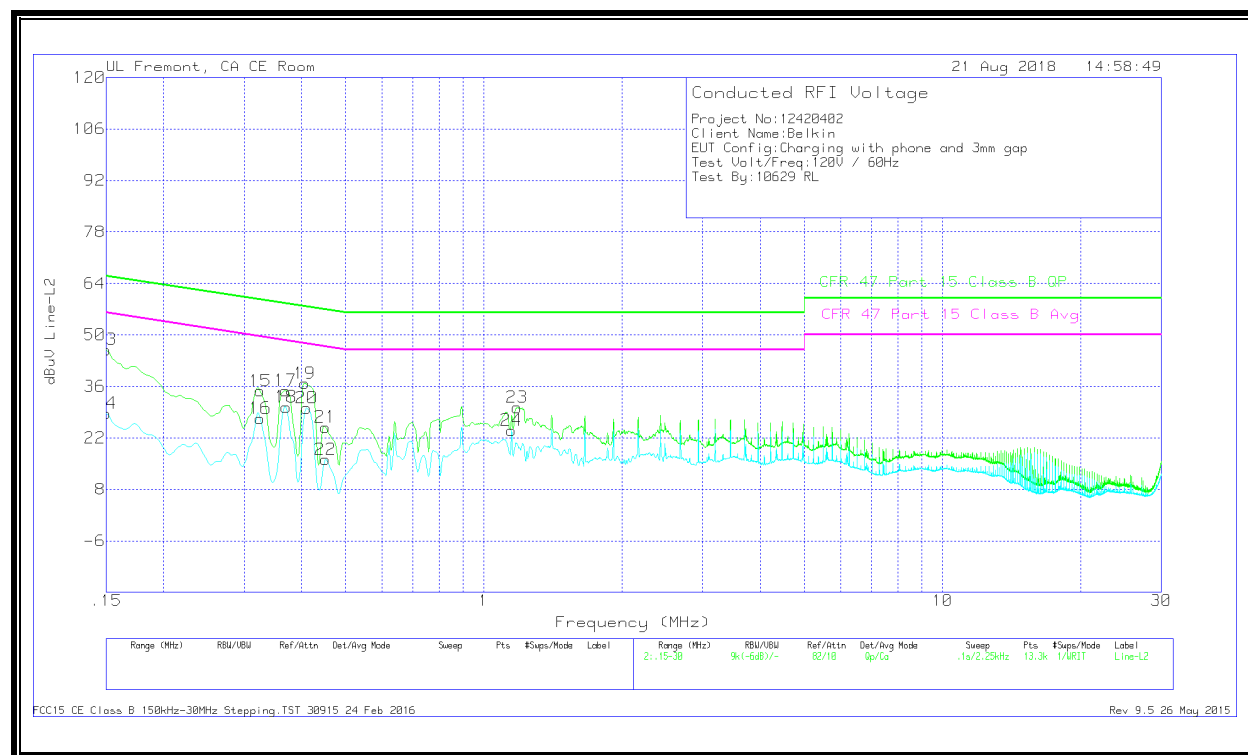
OPERATING WITH Phone 3mm GAP**LINE 1 RESULTS****WORST EMISSIONS**

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	.15	34.42	Qp	.1	0	10.1	44.62	66	-21.38	-	-
2	.15	17.53	Ca	.1	0	10.1	27.73	-	-	56	-28.27
3	.3255	26.43	Qp	0	0	10.1	36.53	59.57	-23.04	-	-
4	.3255	20.64	Ca	0	0	10.1	30.74	-	-	49.57	-18.83
5	.37275	28.37	Qp	0	0	10.1	38.47	58.44	-19.97	-	-
6	.3705	24.38	Ca	0	0	10.1	34.48	-	-	48.49	-14.01
7	.4065	29.08	Qp	0	0	10.1	39.18	57.72	-18.54	-	-
8	.411	22.71	Ca	0	0	10.1	32.81	-	-	47.63	-14.82
9	.44925	19.65	Qp	0	0	10.1	29.75	56.89	-27.14	-	-
10	.45375	11.66	Ca	0	0	10.1	21.76	-	-	46.81	-25.05
11	.89475	17.93	Qp	0	0	10.1	28.03	56	-27.97	-	-
12	.89475	13.35	Ca	0	0	10.1	23.45	-	-	46	-22.55

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



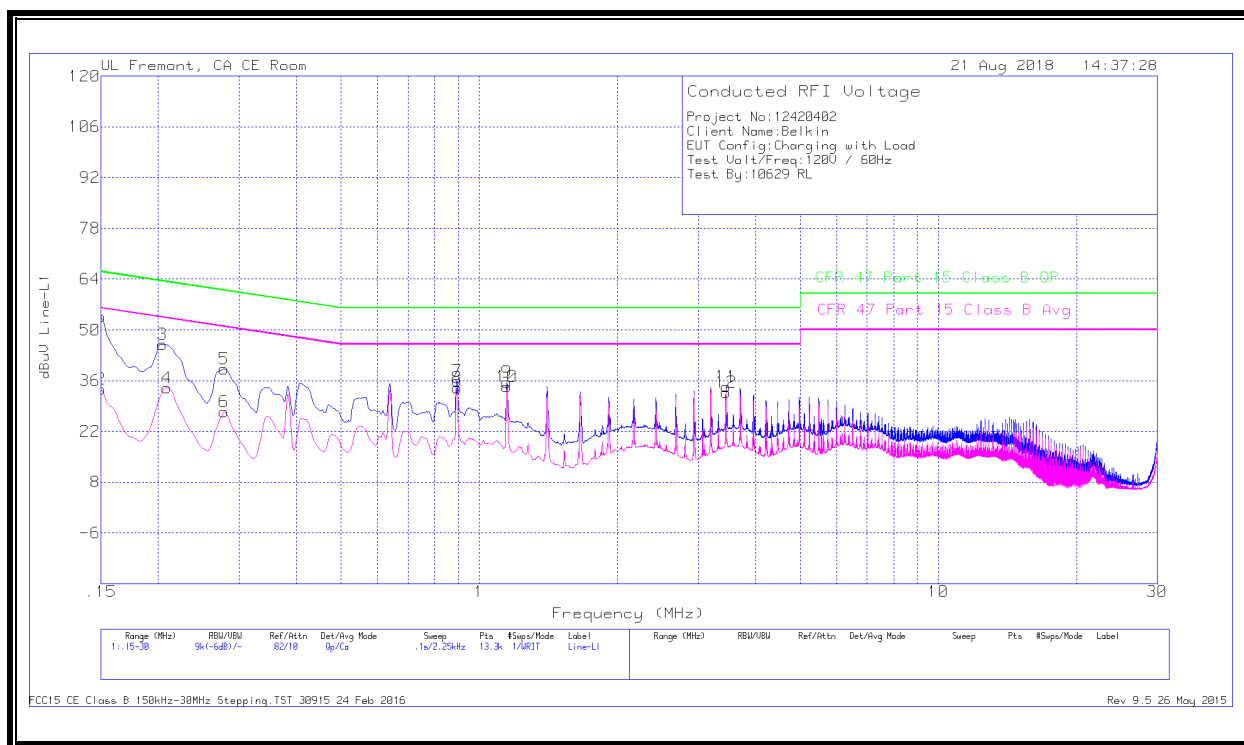
WORST EMISSIONS

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	.15	35.78	Qp	.1	0	10.1	45.98	66	-20.02	-	-
14	.15	18.48	Ca	.1	0	10.1	28.68	-	-	56	-27.32
15	.3255	24.64	Qp	0	0	10.1	34.74	59.57	-24.83	-	-
16	.3255	17.21	Ca	0	0	10.1	27.31	-	-	49.57	-22.26
17	.36937	24.75	Qp	0	0	10.1	34.85	58.52	-23.67	-	-
18	.3705	20.28	Ca	0	0	10.1	30.38	-	-	48.49	-18.11
19	.4065	26.74	Qp	0	0	10.1	36.84	57.72	-20.88	-	-
20	.411	20	Ca	0	0	10.1	30.1	-	-	47.63	-17.53
21	.4515	14.81	Qp	0	0	10.1	24.91	56.85	-31.94	-	-
22	.4515	6.05	Ca	0	0	10.1	16.15	-	-	46.85	-30.7
23	1.18163	20.06	Qp	0	.1	10.1	30.26	56	-25.74	-	-
24	1.149	13.85	Ca	0	.1	10.1	24.05	-	-	46	-21.95

Qp - Quasi-Peak detector
Ca - CISPR average detection

OPERATING with RECEIVER 10 W LOAD

LINE 1 RESULTS

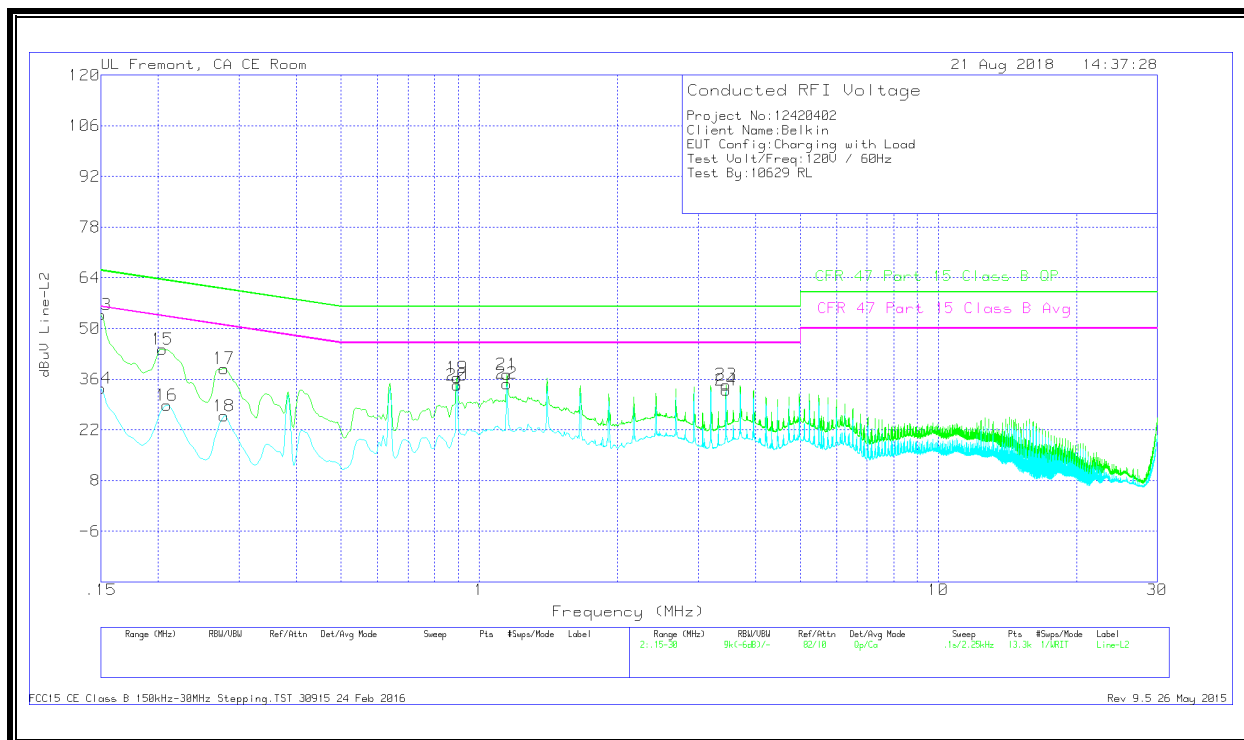


WORST EMISSIONS

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	.15	43.38	Qp	.1	0	10.1	53.58	66	-12.42	-	-
2	.15	23.39	Ca	.1	0	10.1	33.59	-	-	56	-22.41
3	.204	35.9	Qp	0	0	10.1	46	63.45	-17.45	-	-
4	.2085	23.98	Ca	0	0	10.1	34.08	-	-	53.26	-19.18
5	.27825	29.19	Qp	0	0	10.1	39.29	60.87	-21.58	-	-
6	.27825	17.24	Ca	0	0	10.1	27.34	-	-	50.87	-23.53
7	.89475	25.78	Qp	0	0	10.1	35.88	56	-20.12	-	-
8	.89475	23.96	Ca	0	0	10.1	34.06	-	-	46	-11.94
9	1.149	25.39	Qp	0	.1	10.1	35.59	56	-20.41	-	-
10	1.149	24.13	Ca	0	.1	10.1	34.33	-	-	46	-11.67
11	3.4485	24.09	Qp	0	.1	10.1	34.29	56	-21.71	-	-
12	3.4485	22.66	Ca	0	.1	10.1	32.86	-	-	46	-13.14

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

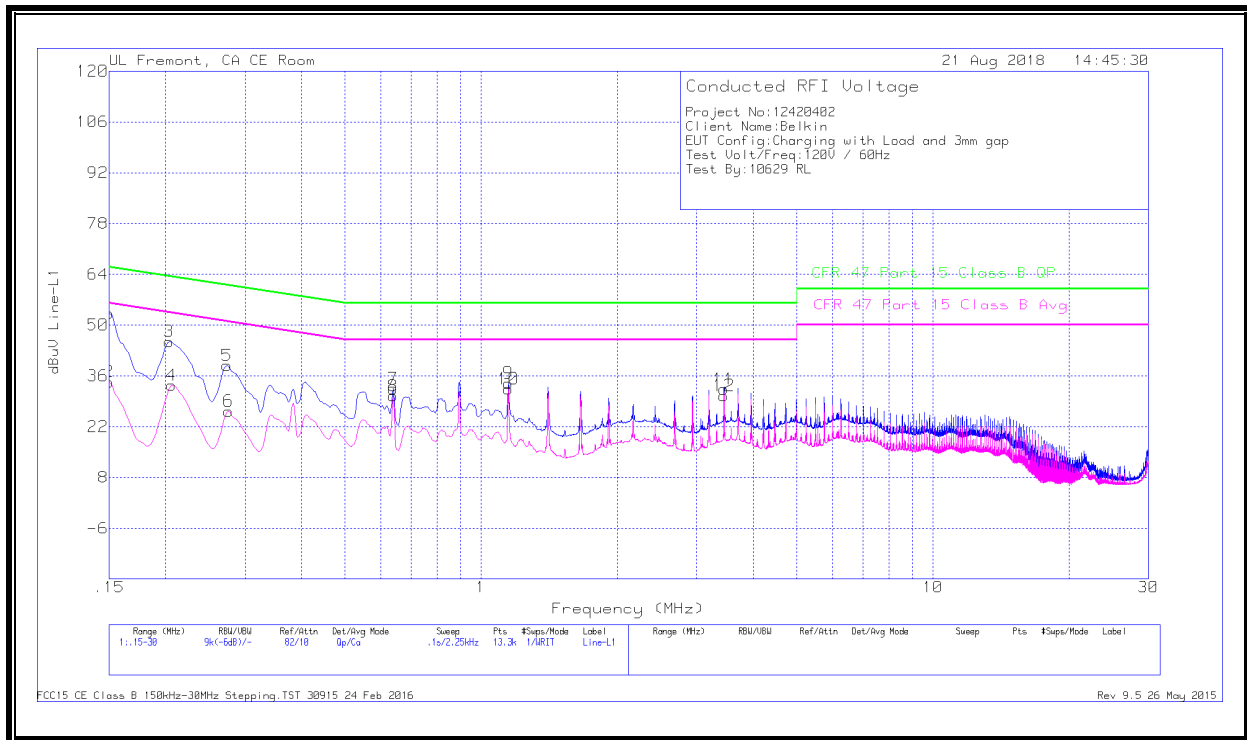
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15	43.62	Qp	.1	0	10.1	53.82	66	-12.18	-	-
14	.15	23.35	Ca	.1	0	10.1	33.55	-	-	56	-22.45
15	.204	34.18	Qp	0	0	10.1	44.28	63.45	-19.17	-	-
16	.2085	18.7	Ca	0	0	10.1	28.8	-	-	53.26	-24.46
17	.27825	28.86	Qp	0	0	10.1	38.96	60.87	-21.91	-	-
18	.27825	15.71	Ca	0	0	10.1	25.81	-	-	50.87	-25.06
19	.89475	26.31	Qp	0	0	10.1	36.41	56	-19.59	-	-
20	.89475	24.25	Ca	0	0	10.1	34.35	-	-	46	-11.65
21	1.149	27.17	Qp	0	.1	10.1	37.37	56	-18.63	-	-
22	1.149	24.59	Ca	0	.1	10.1	34.79	-	-	46	-11.21
23	3.4485	24.24	Qp	0	.1	10.1	34.44	56	-21.56	-	-
24	3.4485	22.72	Ca	0	.1	10.1	32.92	-	-	46	-13.08

Qp - Quasi-Peak detector

Ca - CISPR average detection

OPERATING WITH RECEIVER 10W LOAD 3mm AIRGAP

LINE 1 RESULTS

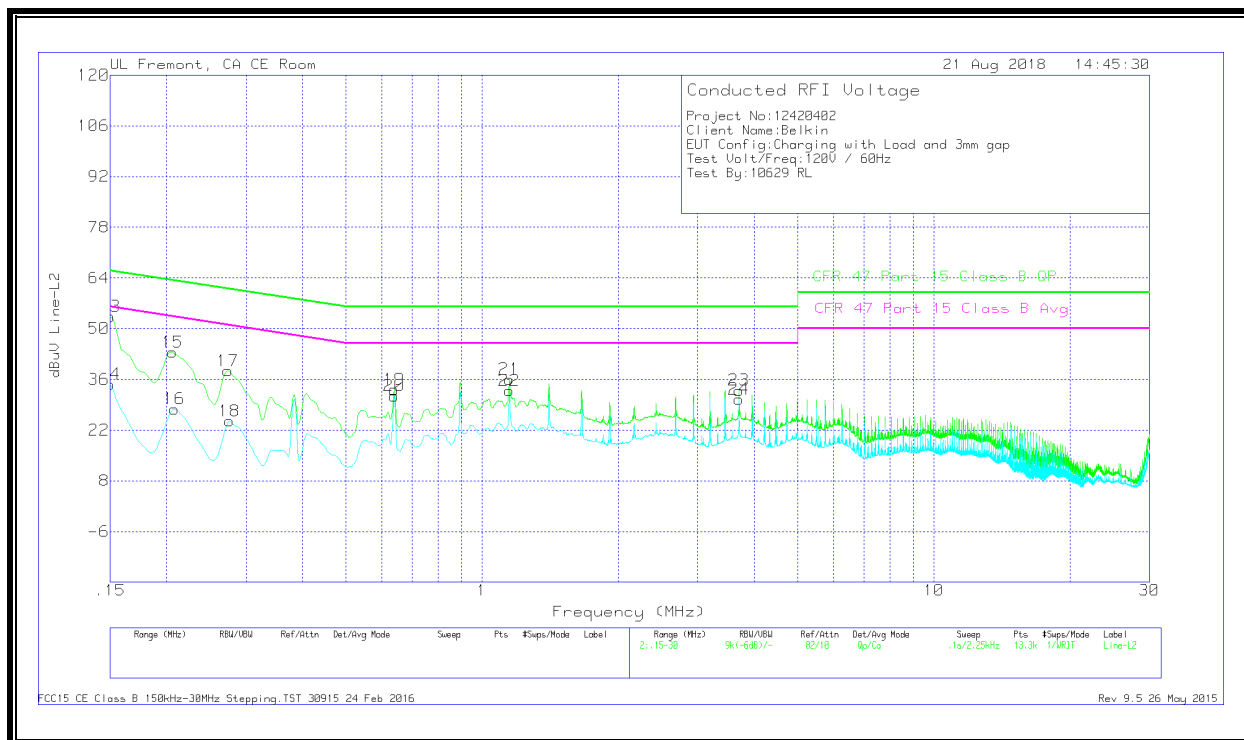


WORST EMISSIONS

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	.15	43.02	Qp	.1	0	10.1	53.22	66	-12.78	-	-
2	.15	24.16	Ca	.1	0	10.1	34.36	-	-	56	-21.64
3	.204	35.38	Qp	0	0	10.1	45.48	63.45	-17.97	-	-
4	.20625	23.3	Ca	0	0	10.1	33.4	-	-	53.35	-19.95
5	.27375	28.77	Qp	0	0	10.1	38.87	61	-22.13	-	-
6	.276	16.2	Ca	0	0	10.1	26.3	-	-	50.94	-24.64
7	.63825	22.39	Qp	0	0	10.1	32.49	56	-23.51	-	-
8	.63825	20.39	Ca	0	0	10.1	30.49	-	-	46	-15.51
9	1.149	23.8	Qp	0	.1	10.1	34	56	-22	-	-
10	1.149	22.21	Ca	0	.1	10.1	32.41	-	-	46	-13.59
11	3.44625	22.14	Qp	0	.1	10.1	32.34	56	-23.66	-	-
12	3.44625	20.35	Ca	0	.1	10.1	30.55	-	-	46	-15.45

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	.15	43.16	Qp	.1	0	10.1	53.36	66	-12.64	-	-
14	.15	24.44	Ca	.1	0	10.1	34.64	-	-	56	-21.36
15	.20625	33.38	Qp	0	0	10.1	43.48	63.35	-19.87	-	-
16	.2085	17.75	Ca	0	0	10.1	27.85	-	-	53.26	-25.41
17	.27375	28.24	Qp	0	0	10.1	38.34	61	-22.66	-	-
18	.276	14.39	Ca	0	0	10.1	24.49	-	-	50.94	-26.45
19	.63825	23.07	Qp	0	0	10.1	33.17	56	-22.83	-	-
20	.63825	21.36	Ca	0	0	10.1	31.46	-	-	46	-14.54
21	1.149	25.84	Qp	0	.1	10.1	36.04	56	-19.96	-	-
22	1.149	22.69	Ca	0	.1	10.1	32.89	-	-	46	-13.11
23	3.70275	22.78	Qp	0	.1	10.1	32.98	56	-23.02	-	-
24	3.70275	20.38	Ca	0	.1	10.1	30.58	-	-	46	-15.42

Qp - Quasi-Peak detector
Ca - CISPR average detection