CERTIFICATION TEST REPORT

Report Number. : 12743821-E1V2

Applicant	:	PI INC. 1111 BAYHILL DR. SUITE 235 SAN BRUNO, CA 94066, U.S.A.
Model	:	SOURCE
FCC ID	:	2ASP901EH1
EUT Description	:	WIRELESS CHARGER
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C

Date Of Issue:
May 17, 2019

Prepared by:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	5/13/2019	Initial Issue	--
V2	5/17/2019	Revised report to address TCB's question	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: PI INC
1111 BAYHILL DR.
SUITE 235
SAN BRUNO, CA 94066, U.S.A.

EUT DESCRIPTION: WIRELESS CHARGER

MODEL NUMBER: SOURCE

SERIAL NUMBER: EH119030000049

DATE TESTED: APRIL 25, 2019 TO APRIL 30, 2019

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 15 SUBPART C	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.

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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.

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 (ISED:2324B-1)	☐ Chamber D (ISED:22541-1)	☐ Chamber I (ISED: 2324A-5)
☐ Chamber B (ISED:2324B-2)	☐ Chamber E (ISED:22541-2)	☒ Chamber J (ISED: 2324A-6)
☐ Chamber C (ISED:2324B-3)	☐ Chamber F (ISED:22541-3)	☒ Chamber K (ISED: 2324A-1)
	☐ Chamber G (ISED:22541-4)	☐ Chamber L (ISED: 2324A-3)
	☐ Chamber H (ISED:22541-5)	

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

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

RADIATED EMISSIONS

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

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

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 Qi compatible wireless charger for cellphone. Up to 4 devices can be charged through wireless charging + 2 High Power USB charging ports. Total 8 coils (4 pairs of Tx/Rx). Operating Frequency range = 113kHz-230kHz.

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)
159.93	Standby Configuration	15.55
162.12	Operating Congfiguration 1	13.91
157.64	Operating Congfiguration 2	13.01
150.81	Operating Congfiguration 3	14.10
139.71	Operating Congfiguration 4	10.11

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was PVT_v2.0.2.

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is a desktop device frequency magnetic charger enclosed in a plastic case. All the phones charged by the WPT must be at upright position (vertical orientation). Worst case radiated configuration was investigated with/without phones charged by EUT via USB cable. The worst case configuration was EUT with USB phones loaded; therefore, for all radiated emissions test, the following configurations were performed:

Config	Mode	Descriptions
1	WPT Standby	EUT standalone powered by AC/DC adapter + 2 phones powered via USB cable.
1	WPT Operating	EUT powered by AC/DC adapter, 1 phone charged wirelessly by EUT (Phone 5W, 20-50% power Charging) + 2 phones powered via USB cable.
2		EUT powered by AC/DC adapter, 2 phones charged wirelessly by EUT (Phone 5W, 20-50% power Charging) + 2 phones powered via USB cable.
3		EUT powered by AC/DC adapter, 3 phones charged wirelessly by EUT (Phone 5W, 20-50% power Charging) + 2 phones powered via USB cable.
4		EUT powered by AC/DC adapter, 4 phones charged wirelessly by EUT (Phone 5W, 20-50% power Charging) + 2 phones powered via USB cable.

Wifi 2.4G and WPT can transmit simultaneously, Wifi 2.4G is in normal operating mode for all above modes as the worst case, no noticeable new emission was found.

6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

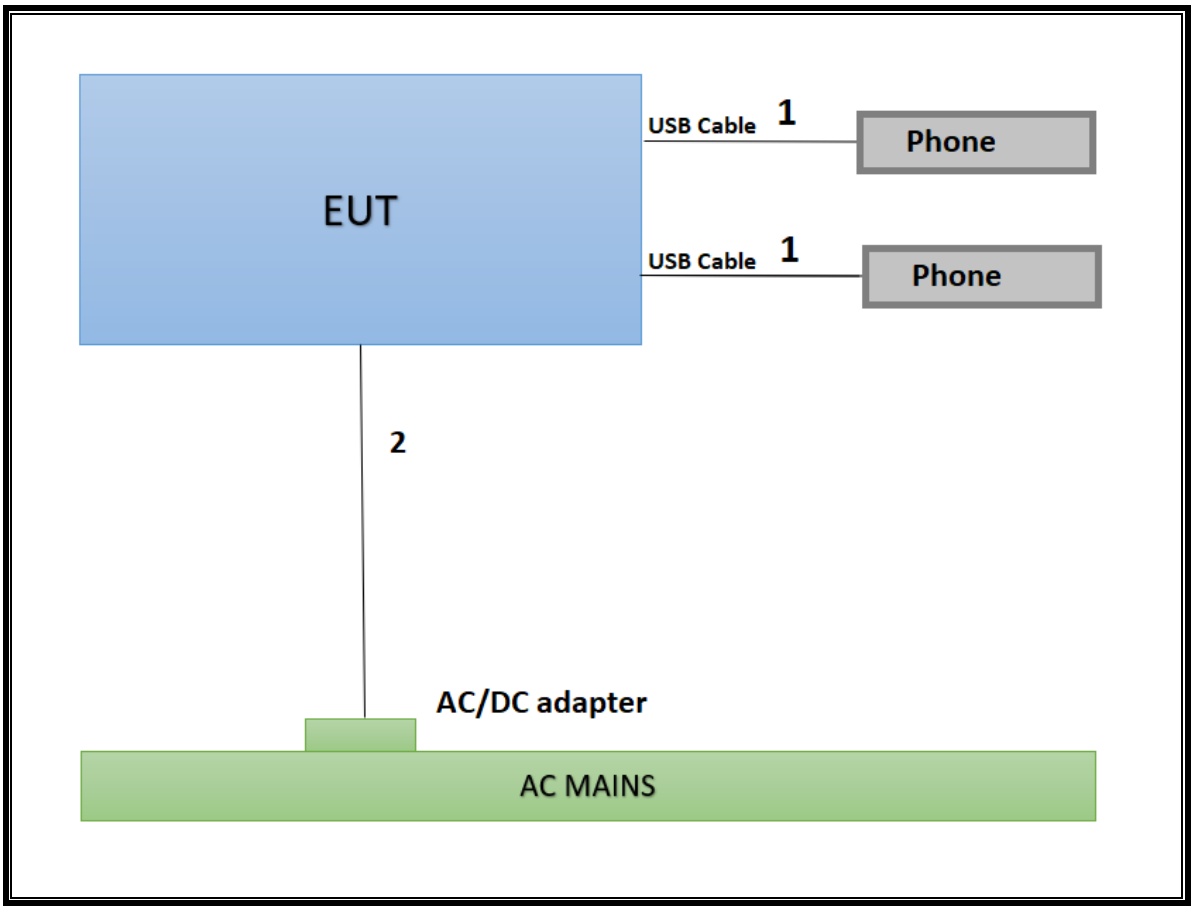
SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/SDoC**
WPT Phone	Apple	iPhone XS	DNQX9C2BKPFP	BCG-E3218A
WPT Phone	Apple	iPhone X	DNPVQ0RQJCLG	BCG-E3175A
WPT Phone	Apple	iPhone XR	DNPXNBLMKXKR	BCG-E3220A
WPT Phone	Apple	iPhone XS Max	F2LXFGP7KPHF	BCG-E3219A
USB Phone	Samsung	Samsung Galaxy S7	R38H30GL1QR	A3LSMG930US
USB Phone	Samsung	Samsung Galaxy S6	R28G52V694T	A3LSMG920V
EUT AC/DC Adapter	Delta Electronics	ADP-65DW Y2C	6IEW8CS006T	SDoC
USB-A to USB Micro B Cables	Startech	UUSBHAUB6IN	N/A	SDoC

I/O CABLES

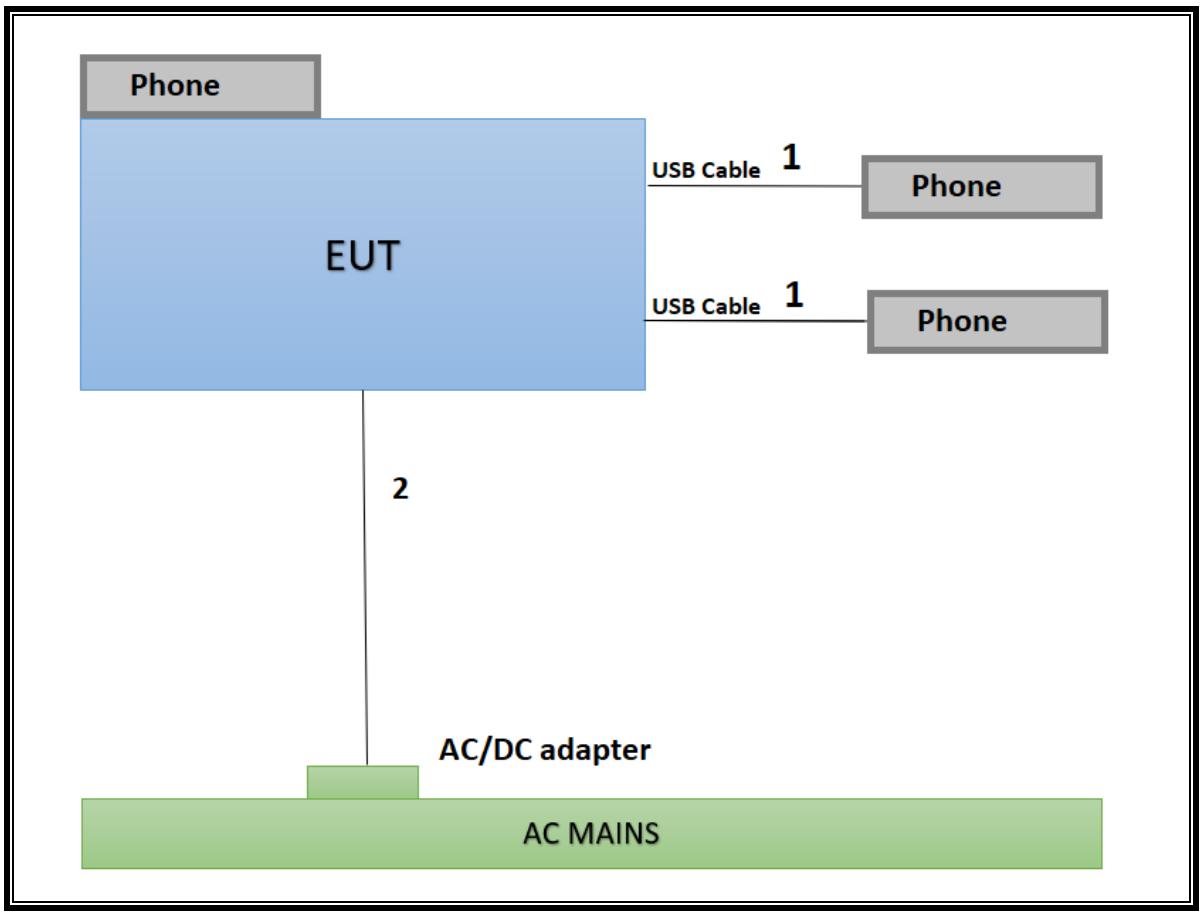
I/O Cable List						
Cable No	**Port**	**# of identical ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	USB	2	USB-A to USB micro-B	Shielded	1	EUT's USB ports to Phones' USB Micro B ports
2	AC	1	2-prong	Un-shielded	1.2	

TEST SETUP

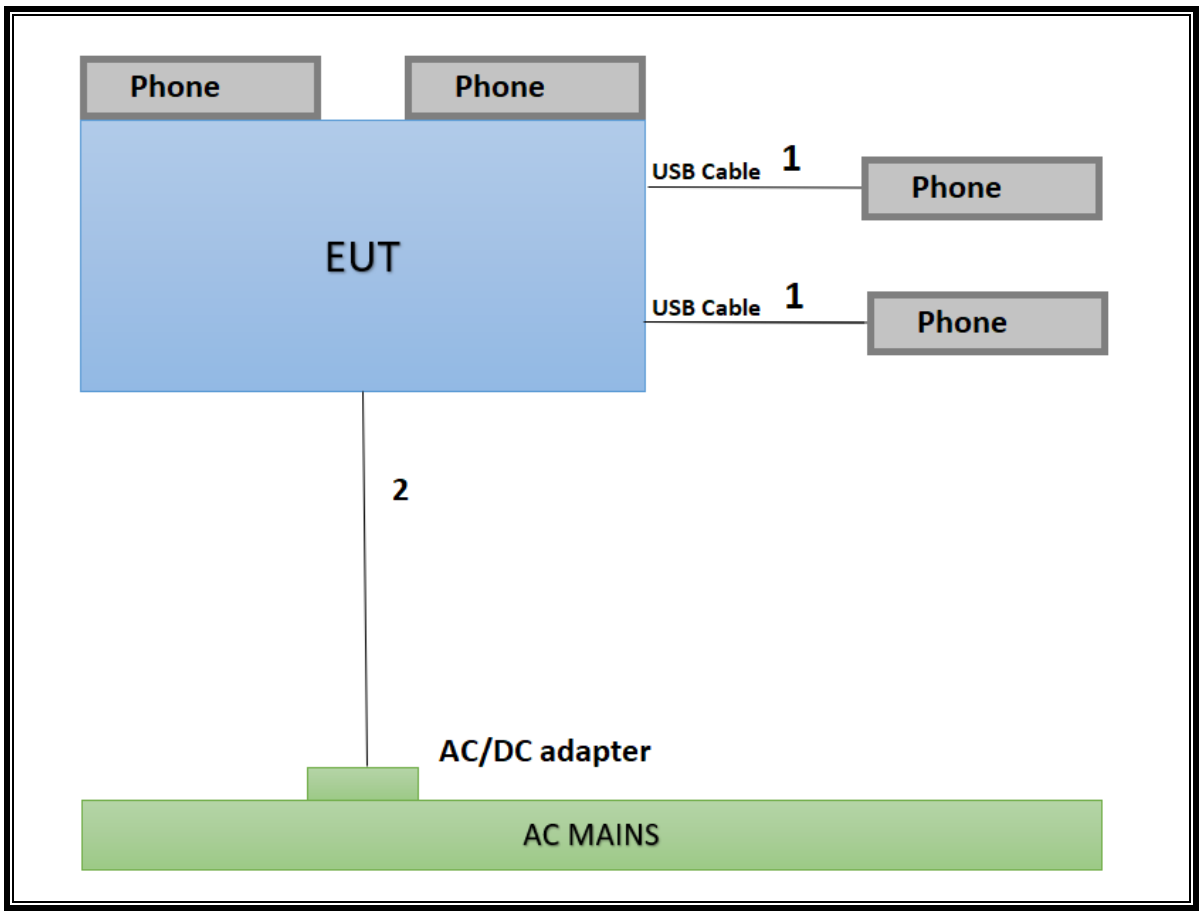
STANDBY CONFIGURATION: STANDBY MODE (WORST CASE)



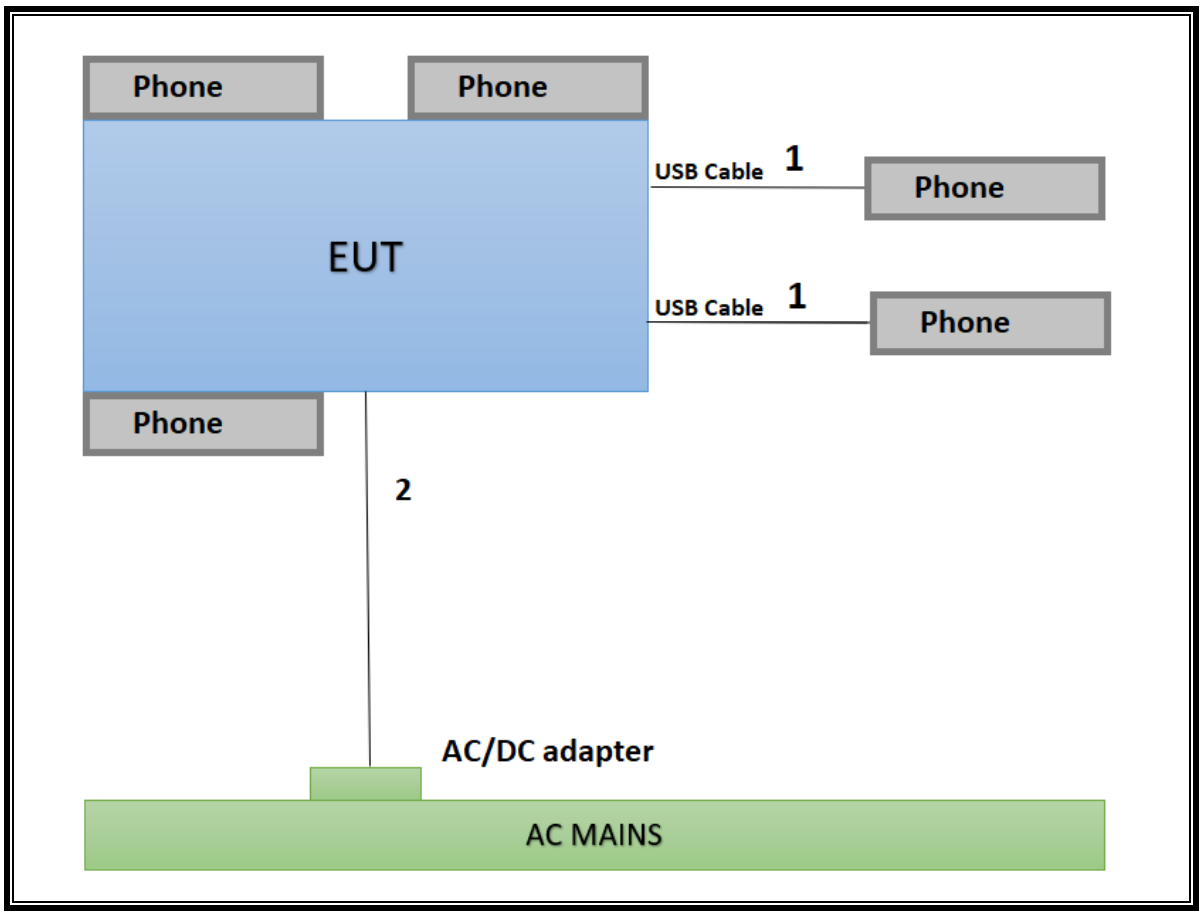
OPERATING CONFIGURATION 1: OPERATING MODE (1 WPT PHONE + 2 USB PHONES)



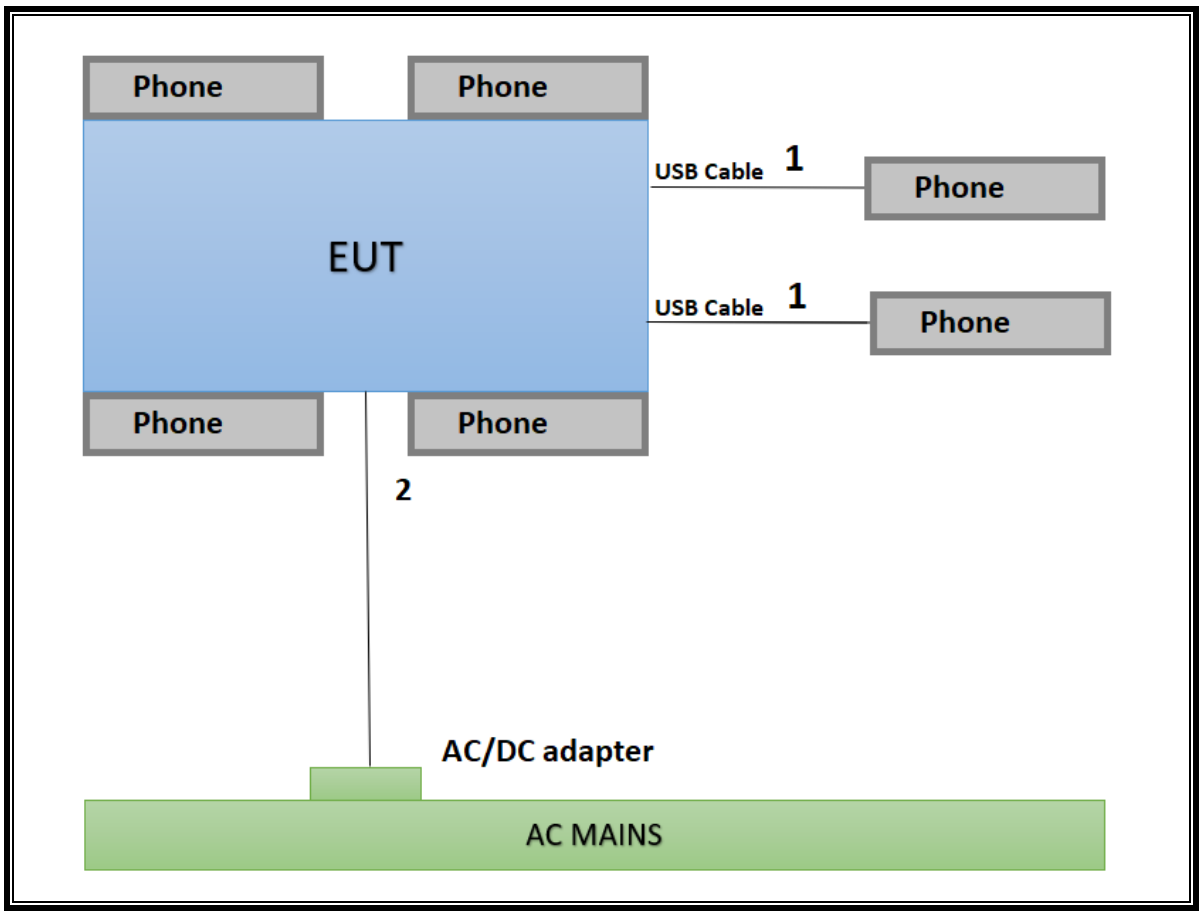
OPERATING CONFIGURATION 2: OPERATING MODE (2 WPT PHONES + 2 USB PHONES)



OPERATING CONFIGURATION 3: OPERATING MODE (3 WPT PHONES + 2 USB PHONES):



OPERATING CONFIGURATION 4: OPERATING MODE (4 WPT PHONES + 2 USB PHONES)



7. 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**	**ID Num**	**Cal Due**	**Last Cal**
Antenna, Passive Loop 30Hz to 1MHz	ELETRO METRICS	EM-6871	PRE0179465	5/22/2019	5/22/2018
Antenna, Passive Loop 100kHz to 30MHz	ELETRO METRICS	EM-6872	PRE0179467	5/22/2019	5/22/2018
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	PRE0180174	5/31/2019	5/31/2018
Hybrid Antenna, 30MHz to 3GHz	SunAR RF Motion	JB3	PRE0181575	8/1/2019	8/1/2018
EMI Test Receiver	Rohde & Schwarz	ESW44	PRE0179377	2/15/2020	2/15/2019
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	PRE0186650	12/13/2019	12/13/2018
Hybrid Antenna, 30MHz to 3GHz	SunAR rf motion	JB3	PRE0184052	10/24/2019	10/24/2018
EMI Test Receiver	Rohde & Schwarz	ESW44	PRE0179372	2/16/2020	2/16/2019
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	PRE0126777	1/23/2020	1/23/2019
AC Line Conducted					
EMI Receiver	Rohde & Schwarz	ESR	T1436	04/10/2020	04/10/2019
LISN	Solar Electronics	8012-50-R-24-BNC	T24	01/24/2020	01/24/2019
LISN for Conducted Emissions CISPR-16	FCC INC.	FCC LISN 50/250	T1310	01/24/2020	01/24/2019
Test Software List					
Radiated Software	UL	UL EMC		Ver 9.5, Jan 11, 2019	
Antenna Port Software	UL	UL RF		Ver 9.6, April 18, 2019	
AC Line Conducted Software	UL	UL EMC		Ver 9.5, May 26, 2015	

8. OCCUPIED BANDWIDTH

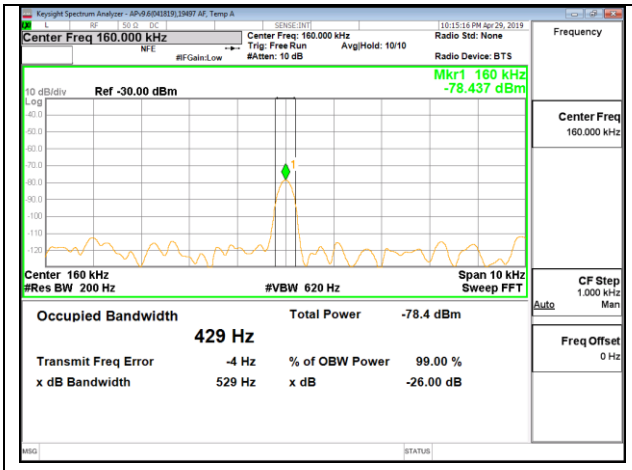
TEST PROCEDURE

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.

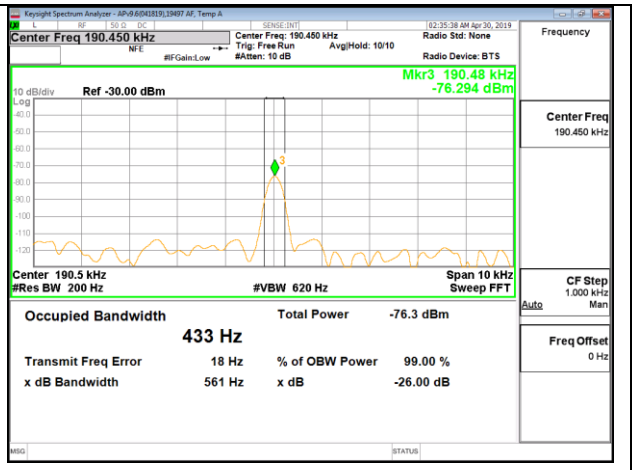
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

RESULTS

ID:	45258	Date:	4/29/2019 & 4/30/2019



STANDBY - 200Hz RBW



CHARGING - 200Hz RBW

9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

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.

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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

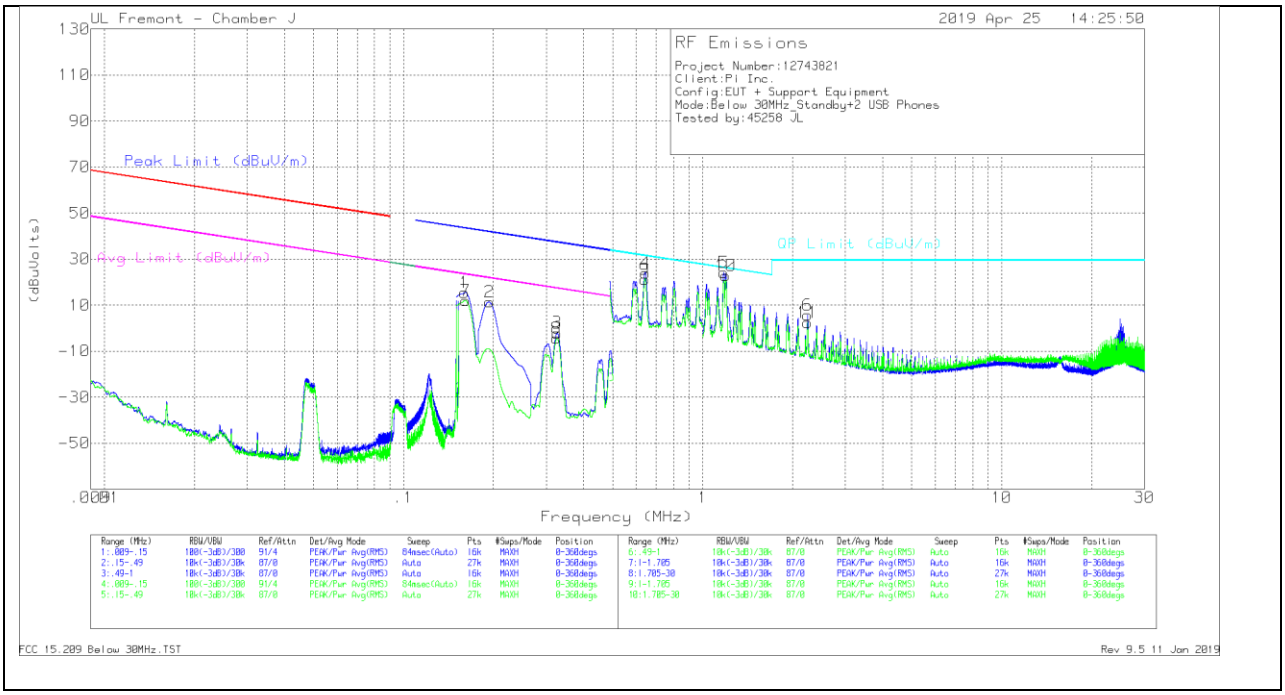
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

RESULTS

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

9.2.1. STANDBY CONFIGURATION: EUT WITH 2 USB PHONES



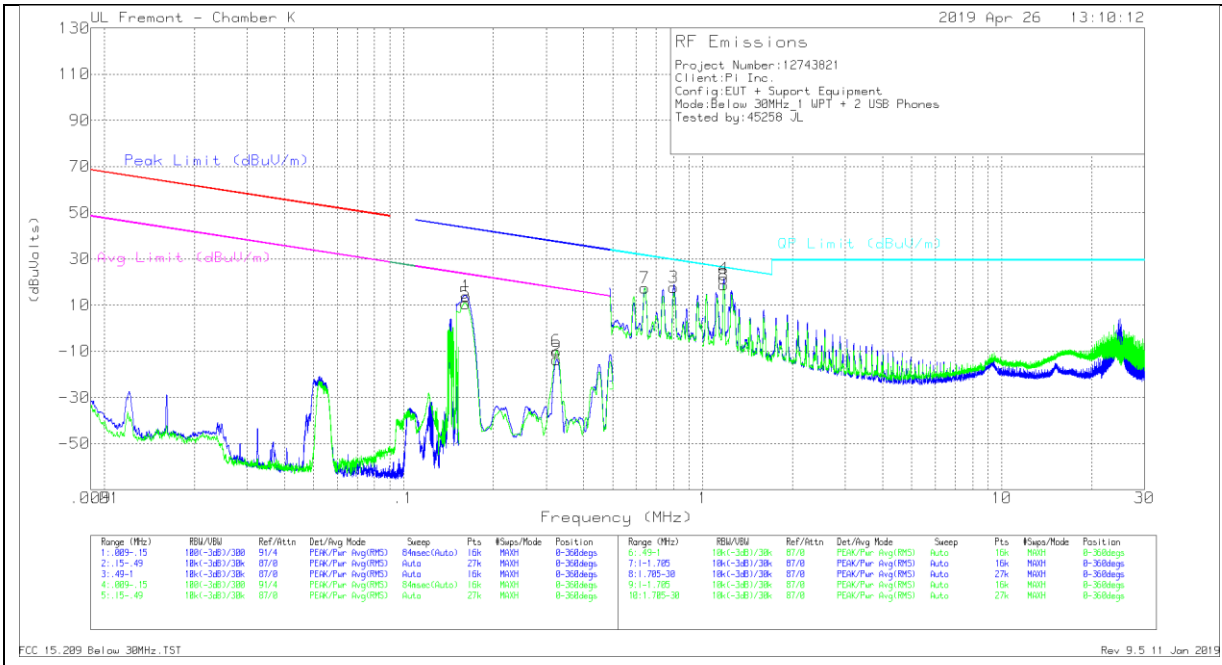
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.15993	68.15	Pk	56	-28.6	-80	15.55	43.54	-27.99	23.54	-7.99	0-360
2	.1938	63.51	Pk	56.3	-28.5	-80	11.31	41.87	-30.56	21.87	-10.56	0-360
3	.32631	50.25	Pk	56.3	-28.6	-80	-2.05	37.34	-39.39	17.34	-19.39	0-360
7	.1616	64.57	Pk	56	-28.6	-80	11.97	43.45	-31.48	23.45	-11.48	0-360
8	.32475	47.84	Pk	56.3	-28.6	-80	-4.46	37.38	-41.84	17.38	-21.84	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.64405	36.25	Pk	56.3	-28.5	-40	24.05	31.43	-7.38	0-360
9	.64082	33.54	Pk	56.3	-28.5	-40	21.34	31.48	-10.14	0-360
5	1.17659	47.2	Pk	45.5	-28.4	-40	24.3	26.21	-1.91	0-360
10	1.19325	45.95	Pk	45.4	-28.4	-40	22.95	26.09	-3.14	0-360
6	2.24367	33.49	Pk	40.5	-28.3	-40	5.69	29.5	-23.81	0-360
11	2.24262	30.21	Pk	40.5	-28.3	-40	2.41	29.5	-27.09	0-360

Pk - Peak detector

9.2.2. OPERATING CONFIGURATION 1: EUT WITH 1 WPT PHONE + 2 USB PHONES



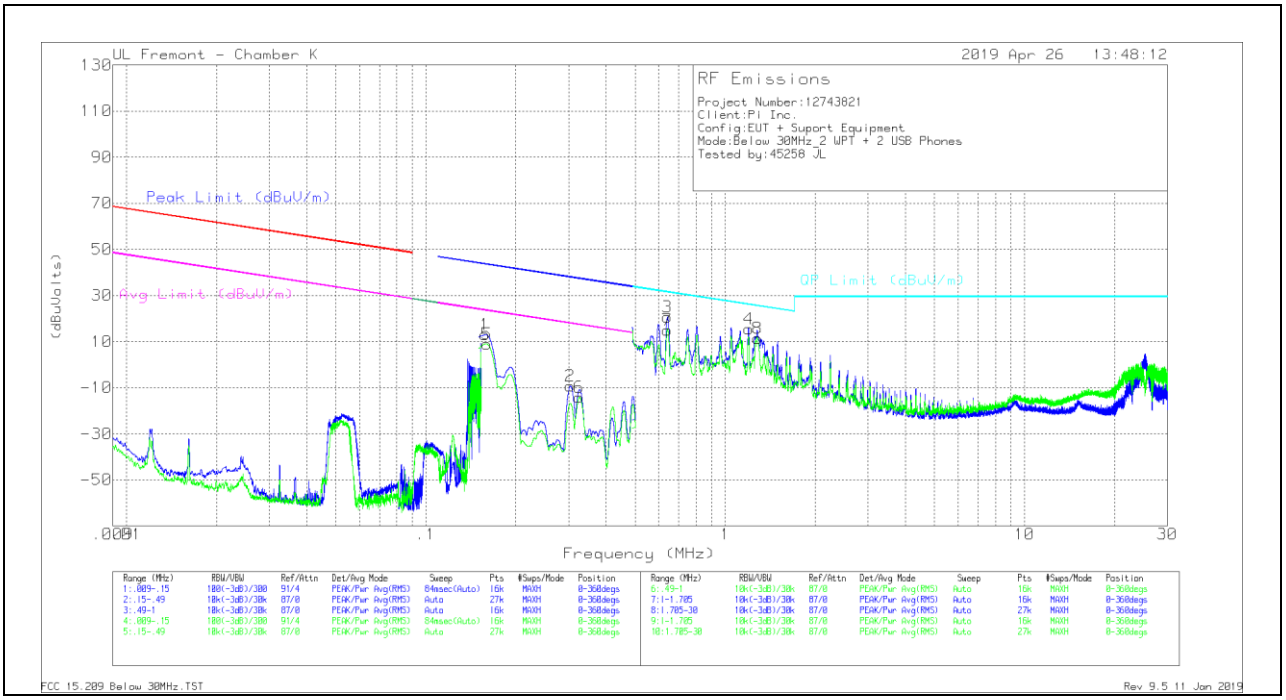
DATA

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)	Azimuth (Degs)
1	.16212	70.11	Pk	56	-32.2	-80	13.91	43.42	-29.51	23.42	-9.51	0-360
2	.32475	42.19	Pk	56.3	-32.1	-80	-13.61	37.38	-50.99	17.38	-30.99	0-360
5	.16129	66.95	Pk	56	-32.2	-80	10.75	43.47	-32.72	23.47	-12.72	0-360
6	.32471	45.85	Pk	56.3	-32.1	-80	-9.95	37.38	-47.33	17.38	-27.33	0-360

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	.79822	33.5	Pk	56.3	-32.1	-40	17.7	29.57	-11.87	0-360
7	.64155	33.21	Pk	56.3	-32.1	-40	17.41	31.47	-14.06	0-360
4	1.1769	48.07	Pk	45.5	-32.1	-40	21.47	26.21	-4.74	0-360
8	1.17692	45.49	Pk	45.5	-32.1	-40	18.89	26.21	-7.32	0-360

Pk - Peak detector

9.2.3. OPERATING CONFIGURATION 2: EUT WITH 2 WPT PHONES + 2 USB PHONES



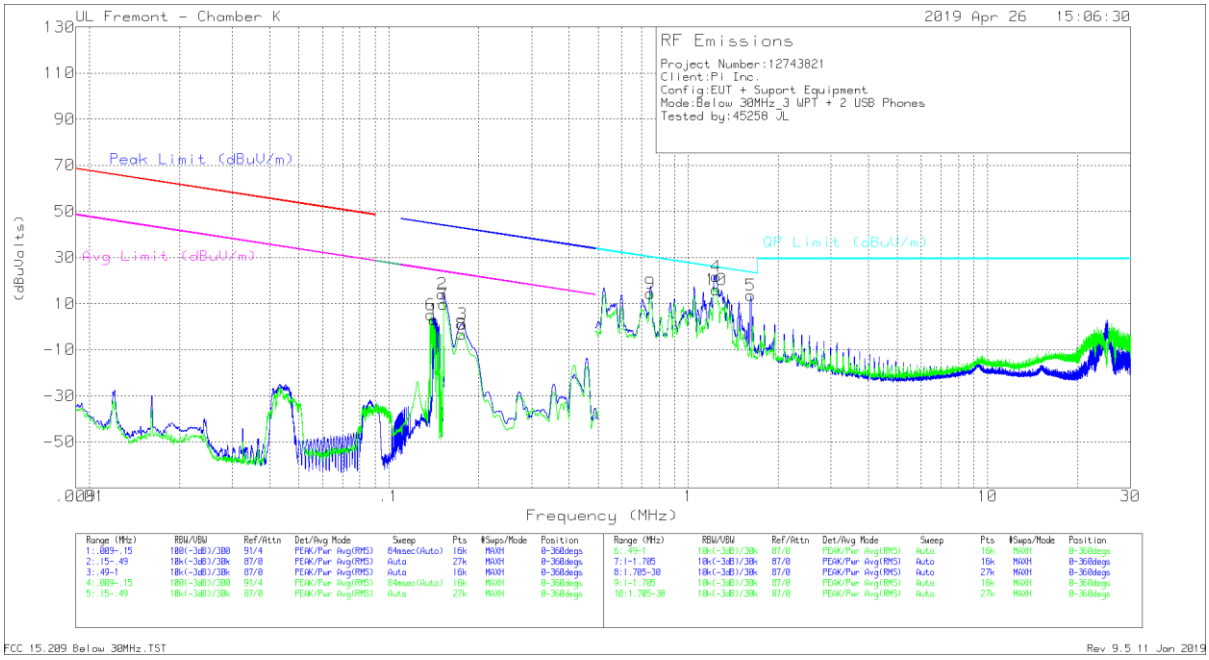
DATA

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)	Azimuth (Degs)
1	.15764	69.21	Pk	56	-32.2	-80	13.01	43.67	-30.66	23.67	-10.66	0-360
2	.30357	46.43	Pk	56.3	-32.1	-80	-9.37	37.97	-47.34	17.97	-27.34	0-360
5	.15986	65.15	Pk	56	-32.2	-80	8.95	43.55	-34.6	23.55	-14.6	0-360
6	.32523	41.62	Pk	56.3	-32.1	-80	-14.18	37.37	-51.55	17.37	-31.55	0-360

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	.64082	36.36	Pk	56.3	-32.1	-40	20.56	31.48	-10.92	0-360
7	.63931	30.75	Pk	56.3	-32.1	-40	14.95	31.5	-16.55	0-360
4	1.1973	42.15	Pk	45.4	-32.1	-40	15.45	26.06	-10.61	0-360
8	1.28406	38.52	Pk	44.9	-32.1	-40	11.32	25.46	-14.14	0-360

Pk - Peak detector

9.2.4. OPERATING CONFIGURATION 3: EUT WITH 3 WPT PHONES + 2 USB PHONES



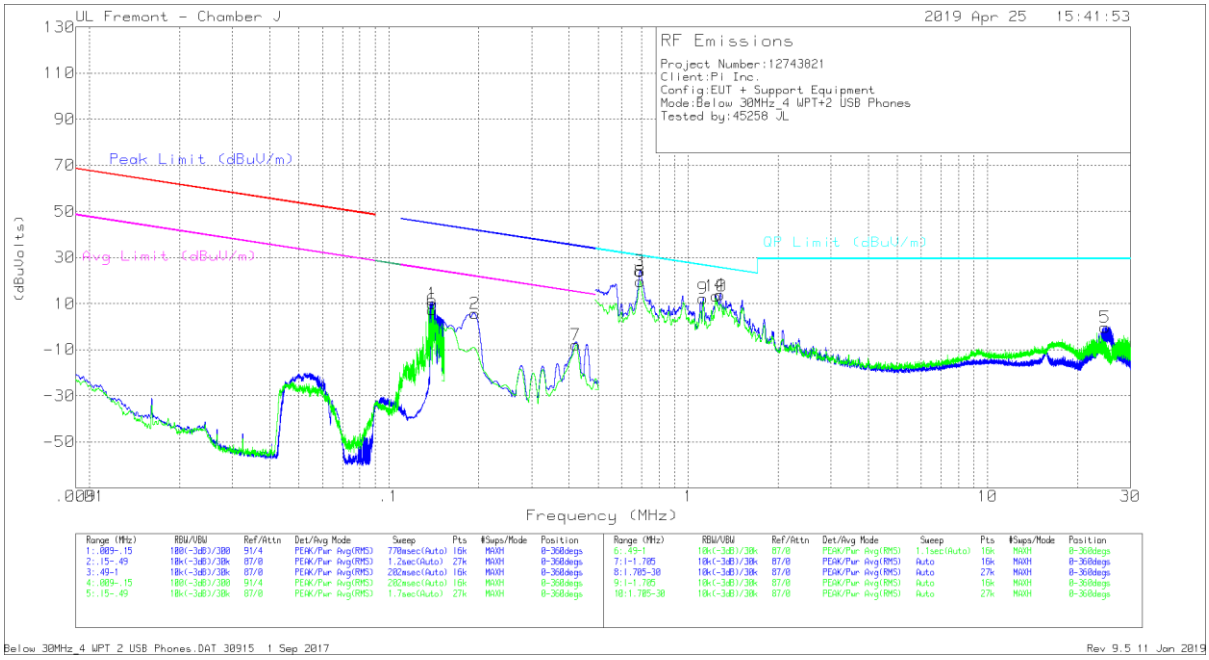
DATA

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)	Azimuth (Degs)
1	.14168	59.21	Pk	55.9	-32.2	-80	2.91	44.6	-41.69	24.6	-21.69	0-360
2	.15081	70.3	Pk	56	-32.2	-80	14.1	44.05	-29.95	24.05	-9.95	0-360
3	.17599	56.98	Pk	56.1	-32.1	-80	.98	42.71	-41.73	22.71	-21.73	0-360
6	.13852	61.44	Pk	55.9	-32.2	-80	5.14	44.79	-39.65	24.79	-19.65	0-360
7	.15228	65.93	Pk	56	-32.2	-80	9.73	43.97	-34.24	23.97	-14.24	0-360
8	.17525	52.73	Pk	56.1	-32.1	-80	-3.27	42.75	-46.02	22.75	-26.02	0-360

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)
9	.74763	30.29	Pk	56.3	-32.1	-40	14.49	30.14	-15.65	0-360
4	1.23973	48.68	Pk	45.2	-32.1	-40	21.78	25.76	-3.98	0-360
5	1.61734	42.33	Pk	43.2	-32	-40	13.53	23.46	-9.93	0-360
10	1.23714	42.93	Pk	45.2	-32.1	-40	16.03	25.78	-9.75	0-360

Pk - Peak detector

9.2.5. OPERATING CONFIGURATION 4: EUT WITH 4 WPT PHONES + 2 USB PHONES



DATA

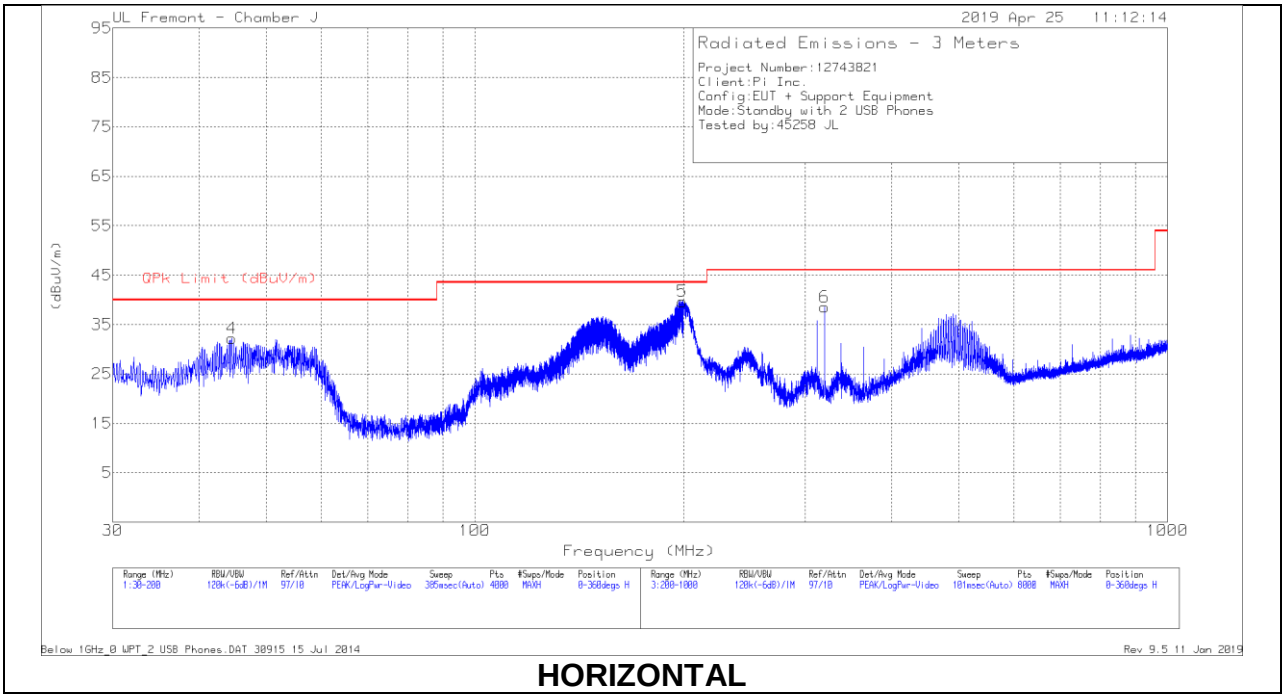
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.13971	62.71	Pk	55.9	-28.5	-80	10.11	44.72	-34.61	24.72	-14.61	0-360
2	.19379	57.86	Pk	56.3	-28.5	-80	5.66	41.87	-36.21	21.87	-16.21	0-360
6	.13946	59.83	Pk	55.9	-28.5	-80	7.23	44.73	-37.5	24.73	-17.5	0-360
7	.42128	44.49	Pk	56.2	-28.6	-80	-7.91	35.11	-43.02	15.11	-23.02	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.68885	36.47	Pk	56.3	-28.5	-40	24.27	30.85	-6.58	0-360
8	.69197	31.9	Pk	56.3	-28.5	-40	19.7	30.81	-11.11	0-360
4	1.27786	37.37	Pk	45	-28.4	-40	13.97	25.5	-11.53	0-360
9	1.12076	34.79	Pk	45.8	-28.4	-40	12.19	26.63	-14.44	0-360
10	1.23696	36.52	Pk	45.2	-28.4	-40	13.32	25.78	-12.46	0-360
5	24.67506	33.25	Pk	34.2	-27.7	-40	-.25	29.5	-29.75	0-360

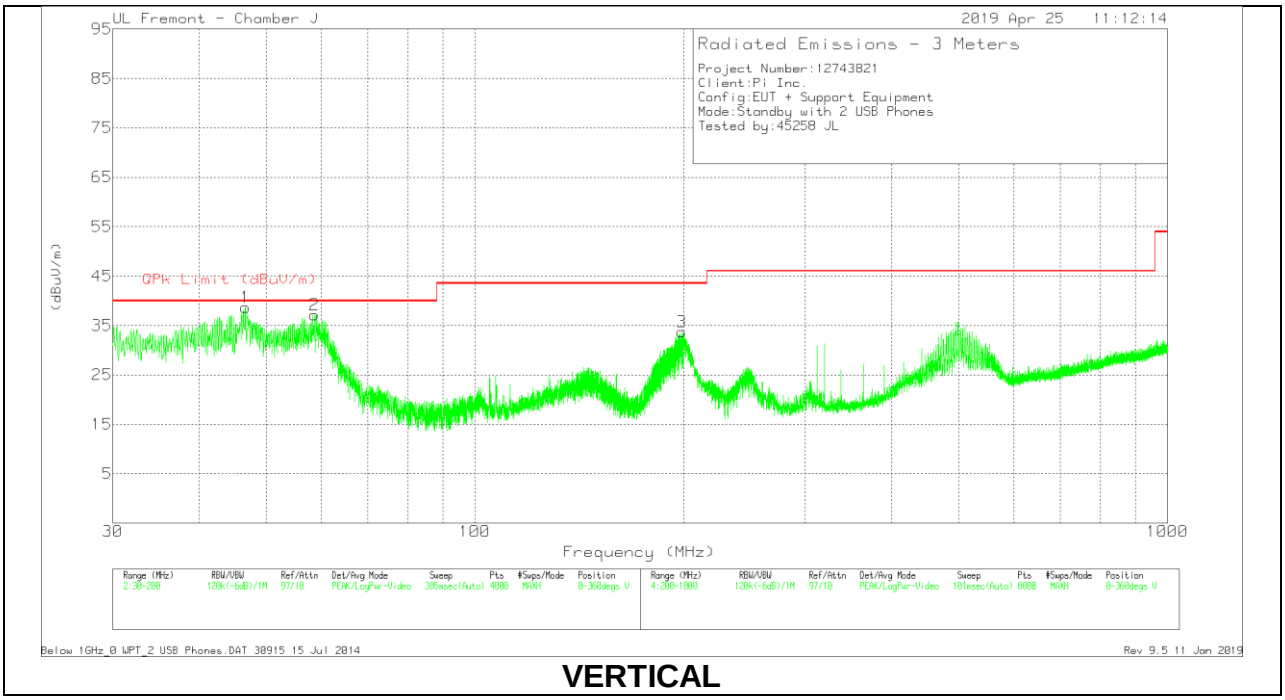
Pk - Peak detector

9.3. TRANSMITTER SPURIOUS EMISSION 30MHz TO 1000MHz

9.3.1. STANDBY CONFIGURATION: EUT WITH 2 USB PHONES



HORIZONTAL



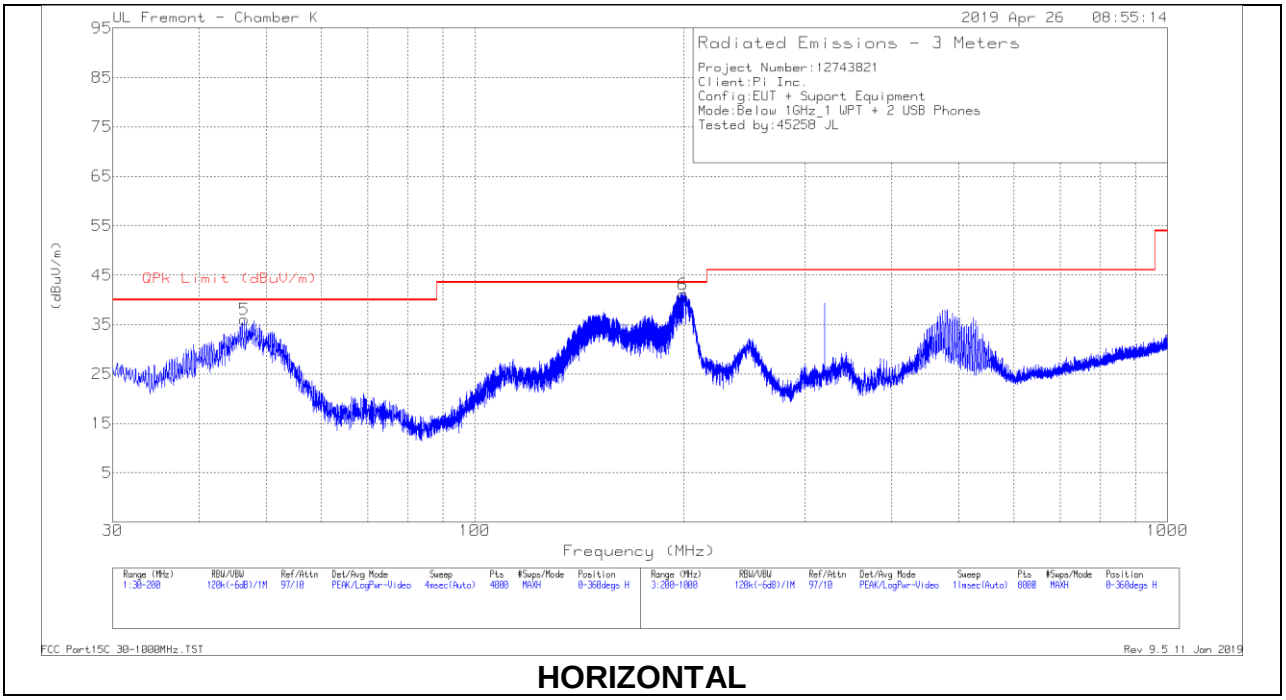
VERTICAL

DATA

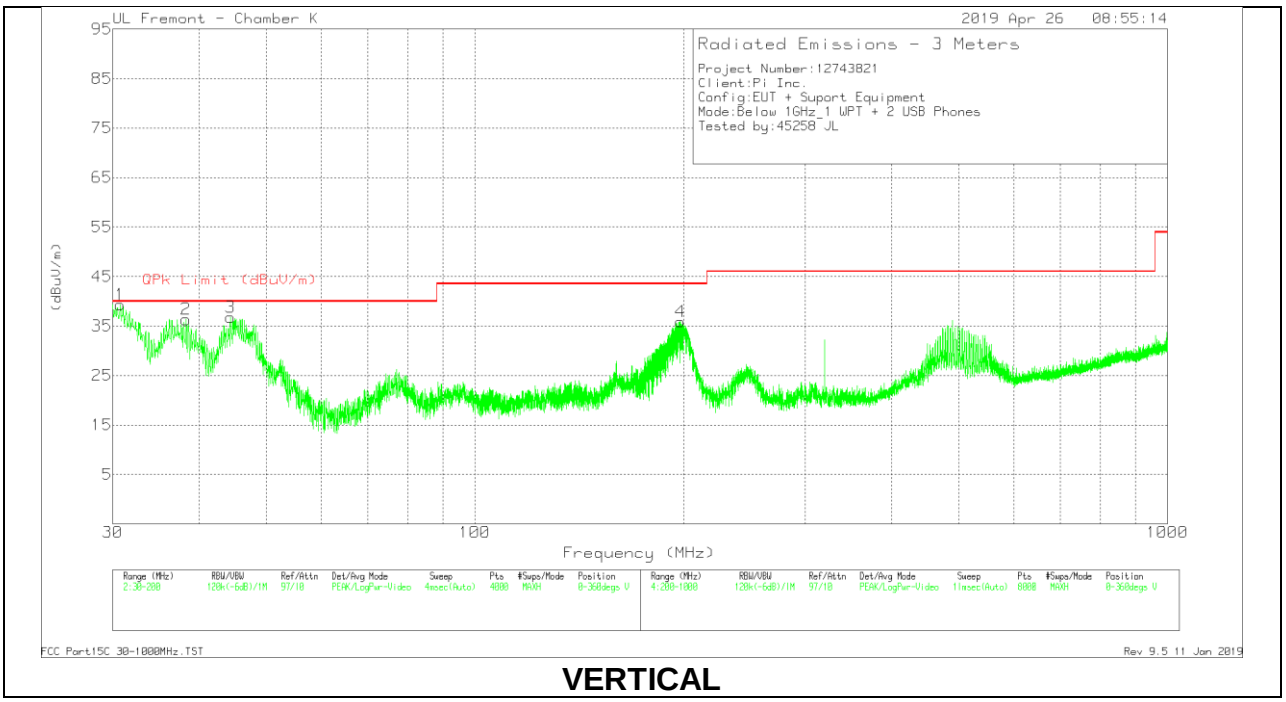
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181575 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	44.5388	47.3	Pk	16.3	-31.4	32.2	40	-7.8	0-360	398	H
5	199.4488	51.63	Pk	18.4	-30.4	39.63	43.52	-3.89	0-360	101	H
	199.444	48.28	Qp	18.4	-30.4	36.28	43.52	-7.24	342	158	H
1	46.6218	54.84	Pk	15.2	-31.4	38.64	40	-1.36	0-360	101	V
	46.6477	51.56	Qp	15.2	-31.4	35.36	40	-4.64	145	105	V
2	58.6524	55.14	Pk	13.2	-31.2	37.14	40	-2.86	0-360	101	V
	58.6778	54.57	Qp	13.2	-31.2	36.57	40	-3.43	265	106	V
3	198.8112	45.76	Pk	18.4	-30.4	33.76	43.52	-9.76	0-360	101	V
6	319.9156	48.71	Pk	19.8	-30	38.51	46.02	-7.51	0-360	101	H

Pk - Peak detector
Qp - Quasi-Peak detector

9.3.2. OPERATING CONFIGURATION 1: EUT WITH 1 WPT PHONES + 2 USB PHONES



HORIZONTAL



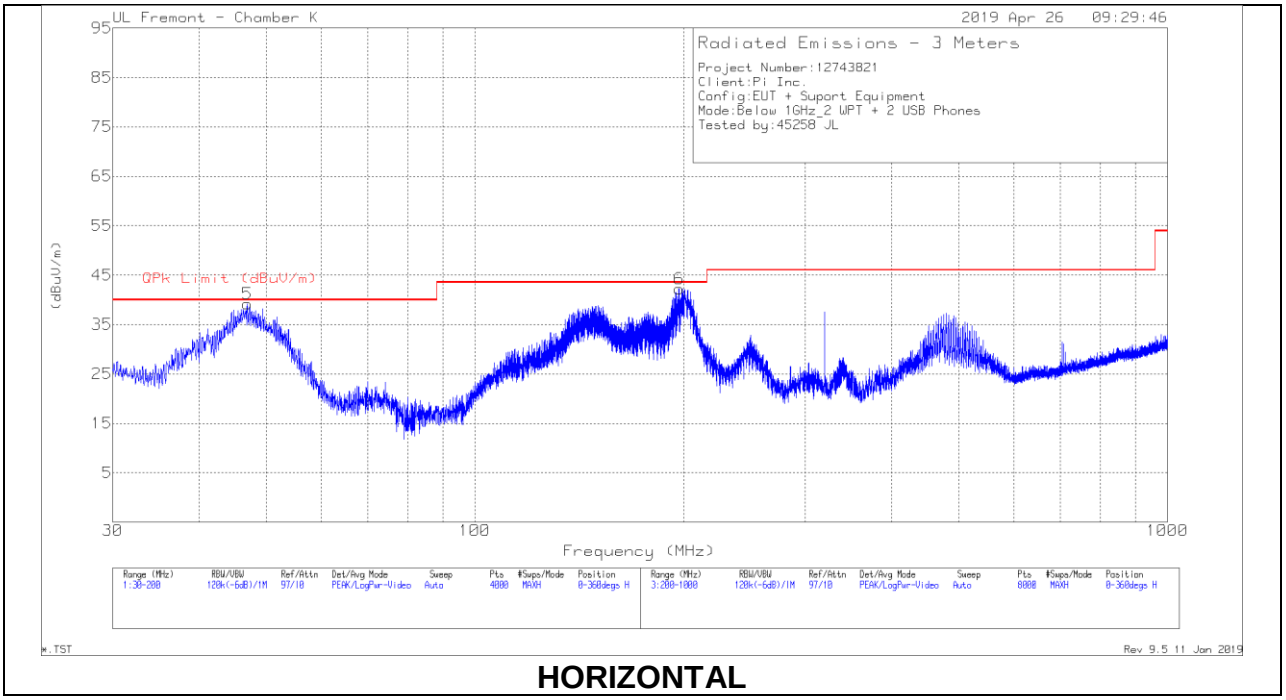
VERTICAL

DATA

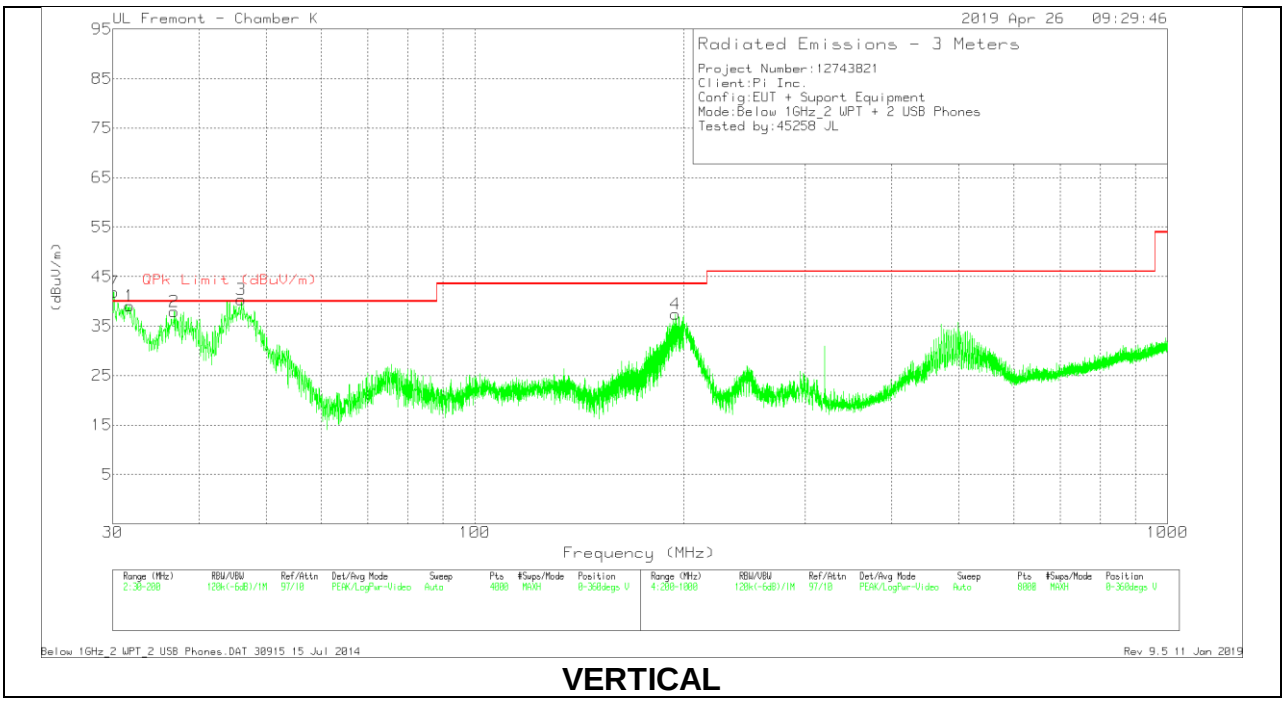
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	46.4518	52.21	Pk	15.2	-31.4	36.01	40	-3.99	0-360	399	H
	46.657	51.26	Qp	15.1	-31.4	34.96	40	-5.04	54	383	H
6	199.9165	52.86	Pk	18.5	-30.3	41.06	43.52	-2.46	0-360	199	H
	199.9229	52.34	Qp	18.5	-30.3	40.54	43.52	-2.98	112	165	H
1	30.7652	44.9	Pk	26	-31.6	39.3	40	-.7	0-360	100	V
	30.8002	42.5	Qp	26	-31.6	36.9	40	-3.1	11	125	V
2	38.2896	46.93	Pk	20.9	-31.5	36.33	40	-3.67	0-360	100	V
	38.3021	40.91	Qp	20.9	-31.5	30.31	40	-9.69	7	128	V
3	44.3687	51.53	Pk	16.5	-31.3	36.73	40	-3.27	0-360	100	V
	44.5687	49.32	Qp	16.4	-31.3	34.42	40	-5.58	11	112	V
4	198.0035	47.87	Pk	18.2	-30.2	35.87	43.52	-7.65	0-360	100	V
	197.991	42.7	Qp	18.2	-30.2	30.7	43.52	-12.82	64	109	V

Pk - Peak detector
Qp - Quasi-Peak detector

9.3.3. OPERATING CONFIGURATION 2: EUT WITH 2 WPT PHONES + 2 USB PHONES



HORIZONTAL



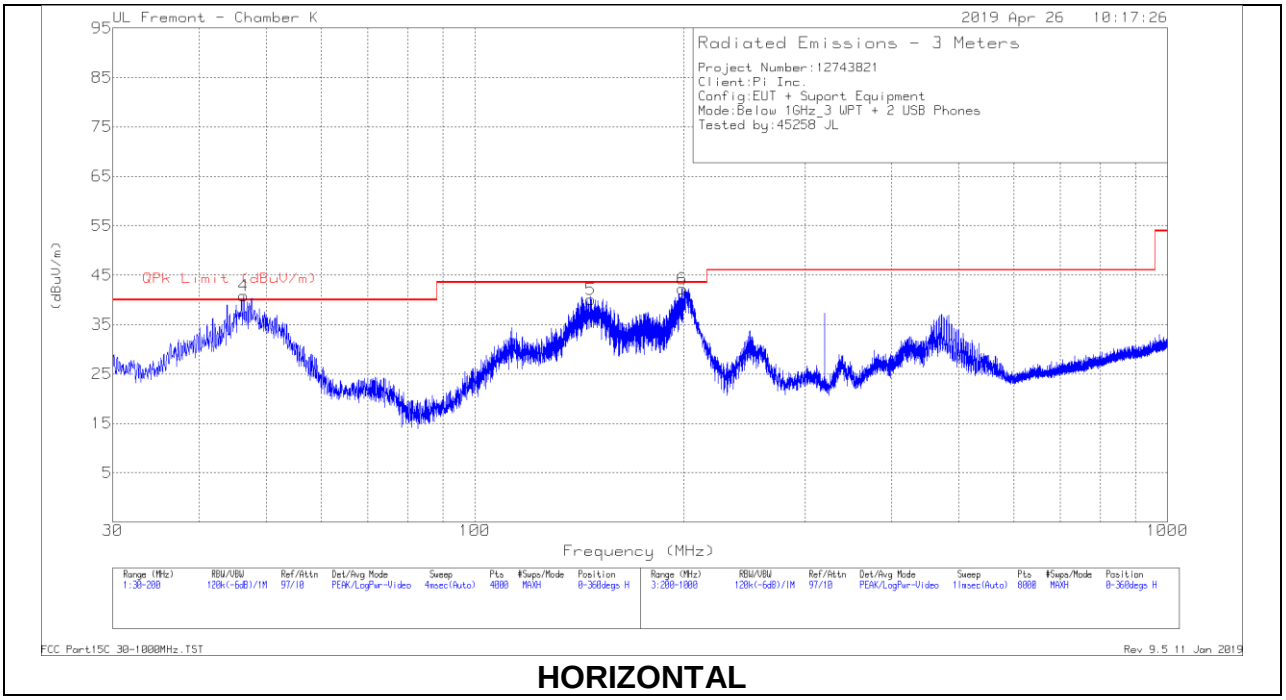
VERTICAL

DATA

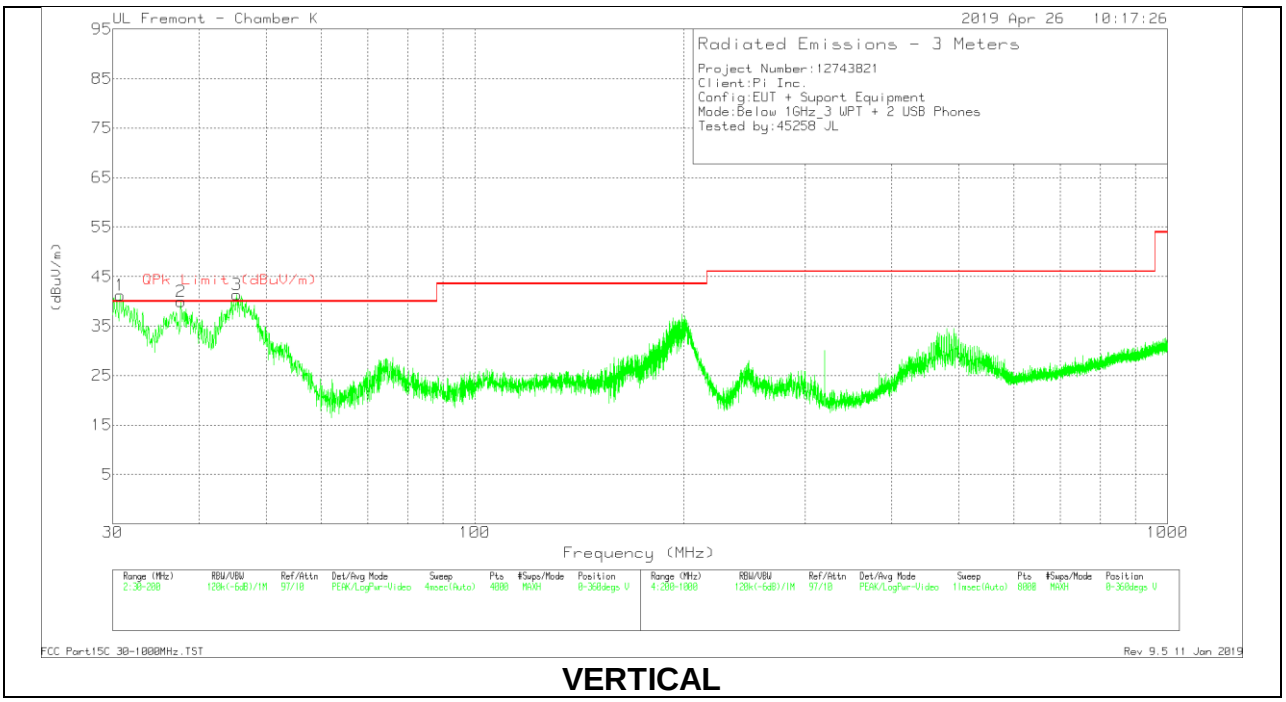
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	46.9194	55.72	Pk	14.9	-31.4	39.22	40	-.78	0-360	399	H
	46.7957	50.68	Qp	15	-31.4	34.28	40	-5.72	79	396	H
6	197.0682	54.43	Pk	18	-30.2	42.23	43.52	-1.29	0-360	99	H
	197.0332	54.05	Qp	18	-30.2	41.85	43.52	-1.67	106	180	H
1	31.7004	45.1	Pk	25.5	-31.6	39	40	-1	0-360	100	V
	31.4616	41.16	Qp	25.7	-31.6	35.26	40	-4.74	0	114	V
2	36.8018	47.47	Pk	21.9	-31.4	37.97	40	-2.03	0-360	100	V
	36.856	43.37	Qp	21.9	-31.4	33.87	40	-6.13	50	104	V
3	45.9841	56.12	Pk	15.5	-31.3	40.32	40	.32	0-360	100	V
	46.0148	53.33	Qp	15.5	-31.3	37.53	40	-2.47	347	101	V
4	194.9427	49.9	Pk	17.7	-30.2	37.4	43.52	-6.12	0-360	100	V
	194.9571	48.34	Qp	17.7	-30.2	35.84	43.52	-7.68	95	116	V
7	30.1275	47.17	Pk	26.3	-31.6	41.87	40	1.87	0-360	100	V
	30.1205	42.06	Qp	26.3	-31.6	36.76	40	-3.24	25	119	V

Pk - Peak detector
Qp - Quasi-Peak detector

9.3.4. OPERATING CONFIGURATION 3: EUT WITH 3 WPT PHONES + 2 USB PHONES



HORIZONTAL



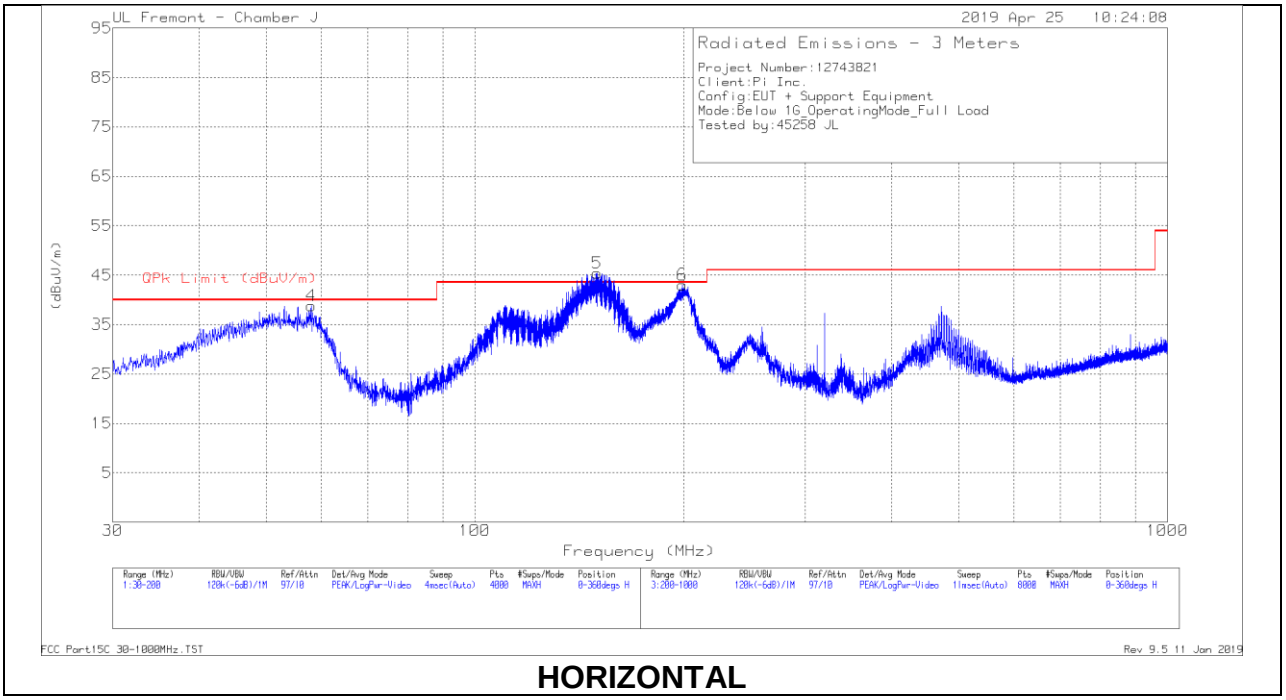
VERTICAL

DATA

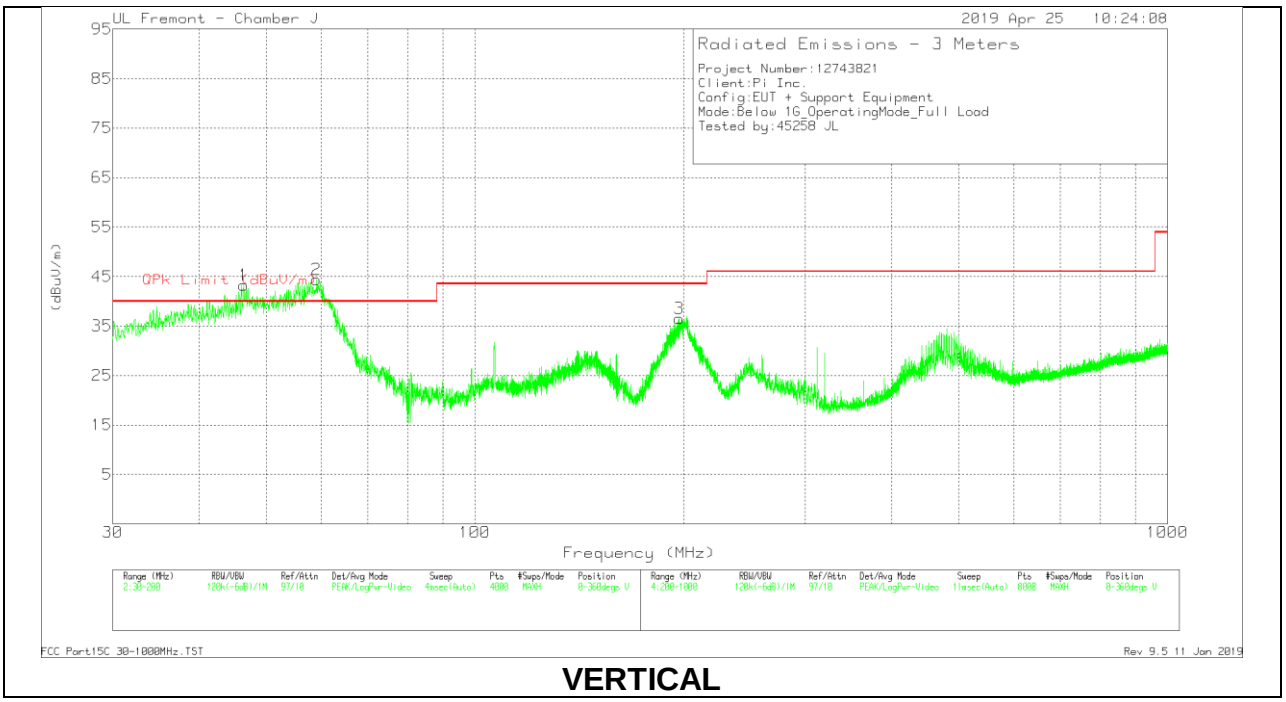
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	46.3242	56.85	Pk	15.3	-31.3	40.85	40	.85	0-360	399	H
	46.3252	50.59	Qp	15.3	-31.3	34.59	40	-5.41	265	392	H
5	147.1603	52.19	Pk	18.5	-30.6	40.09	43.52	-3.43	0-360	199	H
	147.1905	46.99	Qp	18.5	-30.6	34.89	43.52	-8.63	288	218	H
6	199.1513	54.08	Pk	18.4	-30.3	42.18	43.52	-1.34	0-360	199	H
	198.9605	52.92	Qp	18.4	-30.3	41.02	43.52	-2.5	102	153	H
1	30.7227	46.81	Pk	26	-31.6	41.21	40	1.21	0-360	100	V
	30.7817	39.51	Qp	26	-31.6	33.91	40	-6.09	13	107	V
2	* 37.652	50.18	Pk	21.3	-31.5	39.98	40	-.02	0-360	100	V
	* 37.6554	42.02	Qp	21.3	-31.5	31.82	40	-8.18	38	155	V
3	45.304	56.73	Pk	15.9	-31.3	41.33	40	1.33	0-360	100	V
	45.2364	51.34	Qp	16	-31.3	36.04	40	-3.96	355	133	V

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

9.3.5. OPERATING CONFIGURATION 4: EUT WITH 4 WPT PHONES + 2 USB PHONES



HORIZONTAL



VERTICAL

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
4	58.0147	56.85	Pk	13.1	-31.2	38.75	40	-1.25	0-360	398	H
	58.0497	54.2	Qp	13.1	-31.2	36.1	40	-3.9	350	307	H
5	* 150.0086	57.8	Pk	18.3	-30.7	45.4	43.52	1.88	0-360	398	H
	150.0527	51.61	Qp	18.3	-30.7	39.21	43.52	-4.31	360	260	H
6	199.1513	55.05	Pk	18.4	-30.4	43.05	43.52	-.47	0-360	198	H
	198.9571	46.54	Qp	18.4	-30.4	34.54	43.52	-8.98	345	160	H
1	46.3667	59.36	Pk	15.3	-31.4	43.26	40	3.26	0-360	101	V
	46.5906	53.14	Qp	15.2	-31.4	36.94	40	-3.06	147	101	V
2	59.0775	62.39	Pk	13.2	-31.2	44.39	40	4.39	0-360	101	V
	59.0089	57.18	Qp	13.2	-31.2	39.18	40	-.82	178	118	V
3	197.0682	48.73	Pk	18.1	-30.3	36.53	43.52	-6.99	0-360	101	V

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

10. 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.

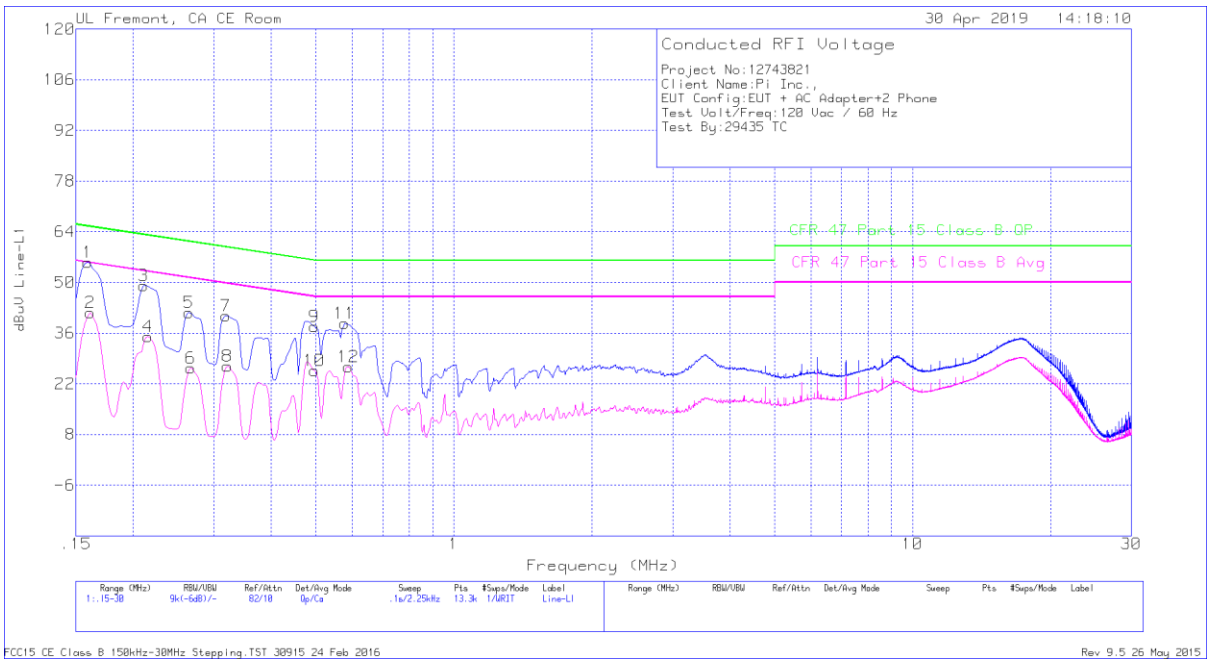
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1. STANDBY CONFIGURATION: EUT WITH 2 USB PHONES

LINE 1 RESULTS

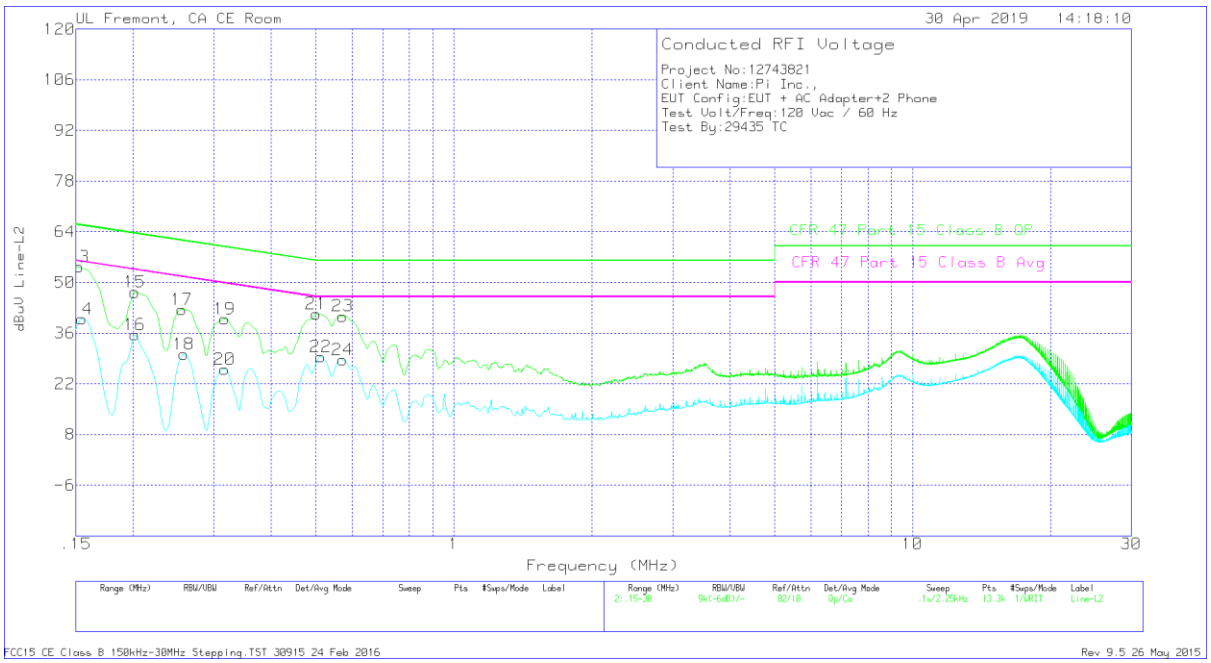


DATA

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	45.44	Qp	.1	0	10.1	55.64	65.52	-9.88	-	-
2	.16125	31.38	Ca	.1	0	10.1	41.58	-	-	55.4	-13.82
3	.21075	39.06	Qp	0	0	10.1	49.16	63.18	-14.02	-	-
4	.21525	24.96	Ca	0	0	10.1	35.06	-	-	53	-17.94
5	.26475	31.5	Qp	0	0	10.1	41.6	61.28	-19.68	-	-
6	.267	16.28	Ca	0	0	10.1	26.38	-	-	51.21	-24.83
7	.31875	30.64	Qp	0	0	10.1	40.74	59.74	-19	-	-
8	.321	16.73	Ca	0	0	10.1	26.83	-	-	49.68	-22.85
9	.4965	27.74	Qp	0	0	10.1	37.84	56.06	-18.22	-	-
10	.4965	15.58	Ca	0	0	10.1	25.68	-	-	46.06	-20.38
11	.57862	28.55	Qp	0	0	10.1	38.65	56	-17.35	-	-
12	.58875	16.63	Ca	0	0	10.1	26.73	-	-	46	-19.27

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



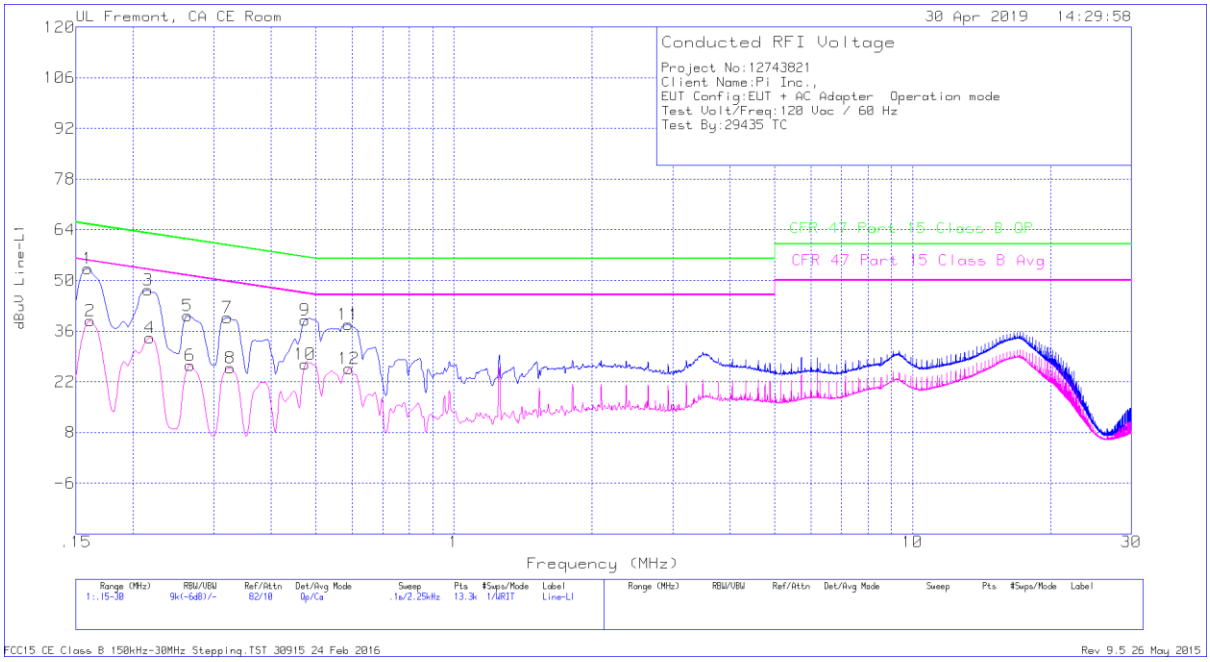
DATA

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	44.22	Qp	.1	0	10.1	54.42	65.88	-11.46	-	-
14	.1545	29.64	Ca	.1	0	10.1	39.84	-	-	55.75	-15.91
15	.20175	37.21	Qp	0	0	10.1	47.31	63.54	-16.23	-	-
16	.20175	25.41	Ca	0	0	10.1	35.51	-	-	53.54	-18.03
17	.25575	32.45	Qp	0	0	10.1	42.55	61.57	-19.02	-	-
18	.258	20.11	Ca	0	0	10.1	30.21	-	-	51.5	-21.29
19	.3165	29.88	Qp	0	0	10.1	39.98	59.8	-19.82	-	-
20	.3165	15.98	Ca	0	0	10.1	26.08	-	-	49.8	-23.72
21	.501	31.29	Qp	0	0	10.1	41.39	56	-14.61	-	-
22	.51225	19.44	Ca	0	0	10.1	29.54	-	-	46	-16.46
23	.57187	30.6	Qp	0	0	10.1	40.7	56	-15.3	-	-
24	.573	18.46	Ca	0	0	10.1	28.56	-	-	46	-17.44

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.2. OPERATING CONFIGURATION 1: EUT WITH PHONE 1 WPT + 2 USB PHONES

LINE 1 RESULTS

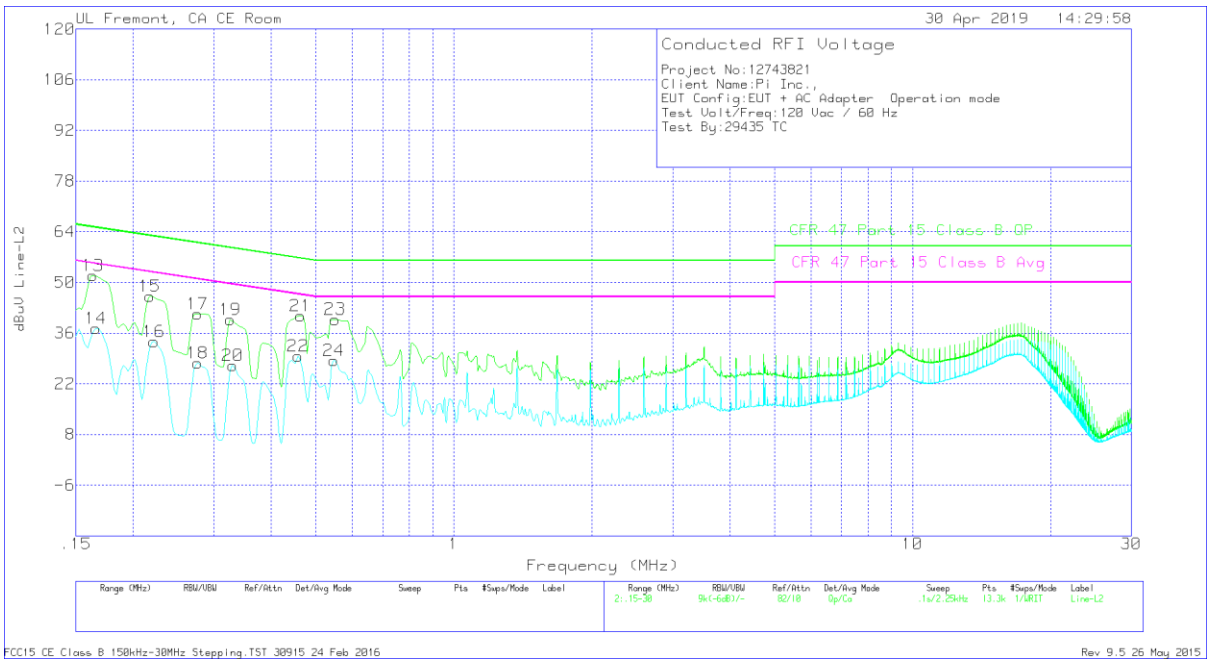


DATA

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	43.07	Qp	.1	0	10.1	53.27	65.52	-12.25	-	-
2	.16125	28.73	Ca	.1	0	10.1	38.93	-	-	55.4	-16.47
3	.21525	37.26	Qp	0	0	10.1	47.36	63	-15.64	-	-
4	.2175	24.14	Ca	0	0	10.1	34.24	-	-	52.91	-18.67
5	.2625	30.17	Qp	0	0	10.1	40.27	61.35	-21.08	-	-
6	.26588	16.41	Ca	0	0	10.1	26.51	-	-	51.25	-24.74
7	.321	29.58	Qp	0	0	10.1	39.68	59.68	-20	-	-
8	.3255	15.79	Ca	0	0	10.1	25.89	-	-	49.57	-23.68
9	.474	29.01	Qp	0	0	10.1	39.11	56.44	-17.33	-	-
10	.474	16.79	Ca	0	0	10.1	26.89	-	-	46.44	-19.55
11	.58875	27.69	Qp	0	0	10.1	37.79	56	-18.21	-	-
12	.591	15.51	Ca	0	0	10.1	25.61	-	-	46	-20.39

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



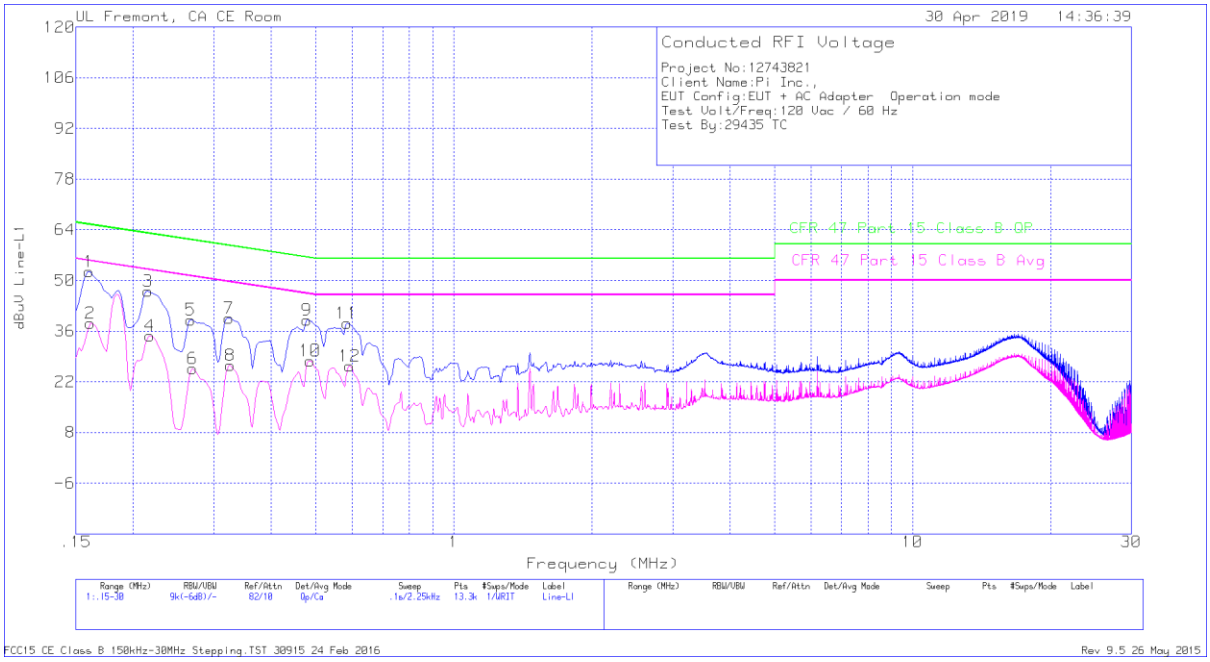
DATA

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	.1635	41.76	Qp	.1	0	10.1	51.96	65.28	-13.32	-	-
14	.16575	27.18	Ca	.1	0	10.1	37.38	-	-	55.17	-17.79
15	.2175	36.11	Qp	0	0	10.1	46.21	62.91	-16.7	-	-
16	.222	23.51	Ca	0	0	10.1	33.61	-	-	52.74	-19.13
17	.276	31.28	Qp	0	0	10.1	41.38	60.94	-19.56	-	-
18	.276	17.57	Ca	0	0	10.1	27.67	-	-	50.94	-23.27
19	.3255	29.58	Qp	0	0	10.1	39.68	59.57	-19.89	-	-
20	.33	16.95	Ca	0	0	10.1	27.05	-	-	49.45	-22.4
21	.46275	30.69	Qp	0	0	10.1	40.79	56.64	-15.85	-	-
22	.45825	19.52	Ca	0	0	10.1	29.62	-	-	46.72	-17.1
23	.5505	29.73	Qp	0	0	10.1	39.83	56	-16.17	-	-
24	.54825	18.31	Ca	0	0	10.1	28.41	-	-	46	-17.59

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.3. OPERATING CONFIGURATION 2: EUT WITH 2 WPT PHONES + 2 USB PHONES

LINE 1 RESULTS

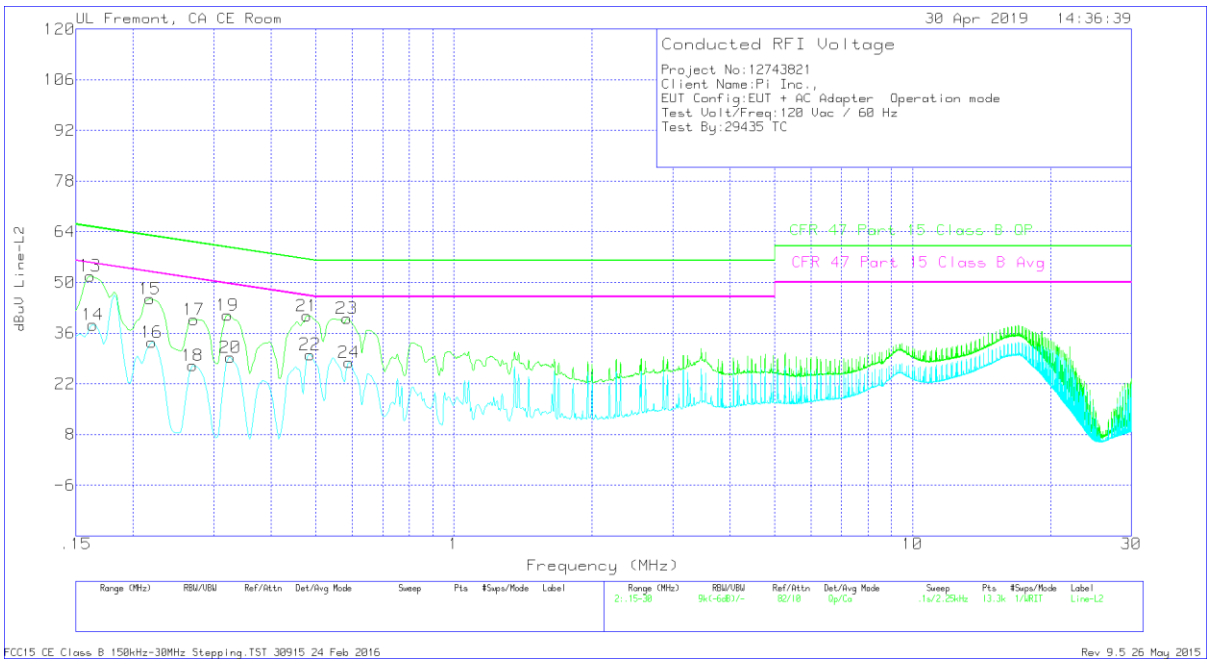


DATA

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	.16013	42.29	Qp	.1	0	10.1	52.49	65.46	-12.97	-	-
2	.16125	27.91	Ca	.1	0	10.1	38.11	-	-	55.4	-17.29
3	.21525	36.88	Qp	0	0	10.1	46.98	63	-16.02	-	-
4	.2175	24.65	Ca	0	0	10.1	34.75	-	-	52.91	-18.16
5	.267	29.03	Qp	0	0	10.1	39.13	61.21	-22.08	-	-
6	.26925	15.49	Ca	0	0	10.1	25.59	-	-	51.14	-25.55
7	.32325	29.53	Qp	0	0	10.1	39.63	59.62	-19.99	-	-
8	.3255	16.45	Ca	0	0	10.1	26.55	-	-	49.57	-23.02
9	.4785	29	Qp	0	0	10.1	39.1	56.37	-17.27	-	-
10	.48525	17.73	Ca	0	0	10.1	27.83	-	-	46.25	-18.42
11	.58425	28.12	Qp	0	0	10.1	38.22	56	-17.78	-	-
12	.59325	16.23	Ca	0	0	10.1	26.33	-	-	46	-19.67

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



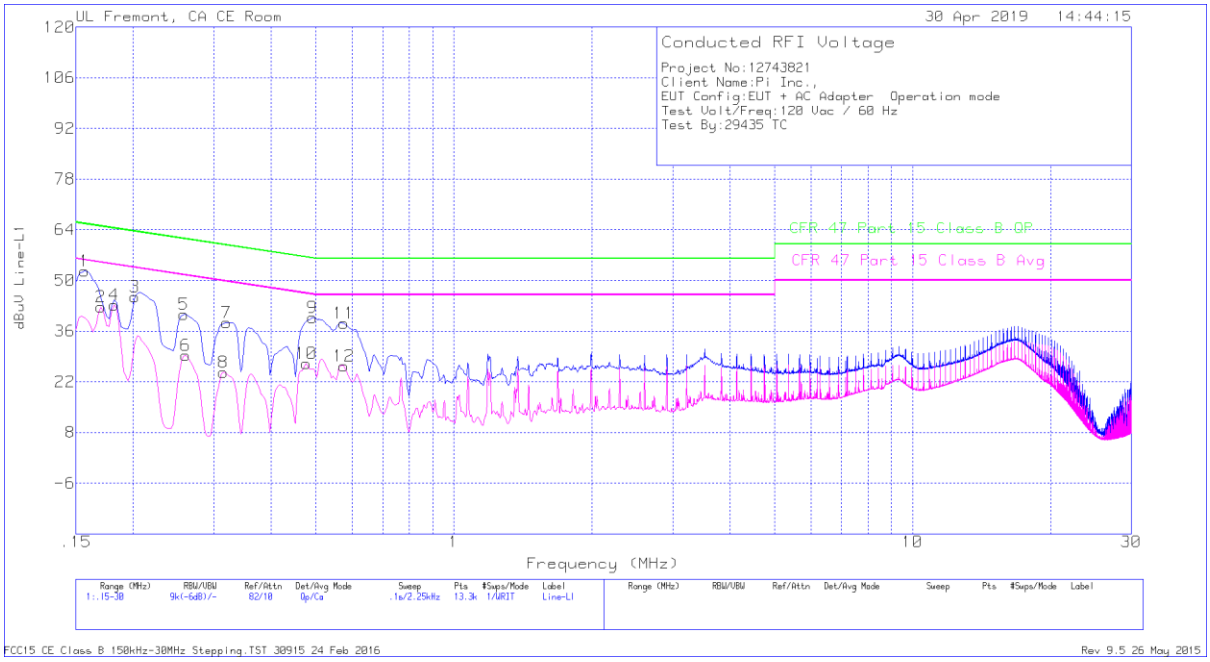
DATA

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	.16125	41.62	Qp	.1	0	10.1	51.82	65.4	-13.58	-	-
14	.1635	28.07	Ca	.1	0	10.1	38.27	-	-	55.28	-17.01
15	.2175	35.39	Qp	0	0	10.1	45.49	62.91	-17.42	-	-
16	.21975	23.38	Ca	0	0	10.1	33.48	-	-	52.83	-19.35
17	.2715	29.64	Qp	0	0	10.1	39.74	61.07	-21.33	-	-
18	.26925	16.89	Ca	0	0	10.1	26.99	-	-	51.14	-24.15
19	.321	30.83	Qp	0	0	10.1	40.93	59.68	-18.75	-	-
20	.3255	19.26	Ca	0	0	10.1	29.36	-	-	49.57	-20.21
21	.4785	30.74	Qp	0	0	10.1	40.84	56.37	-15.53	-	-
22	.48525	19.99	Ca	0	0	10.1	30.09	-	-	46.25	-16.16
23	.58425	29.92	Qp	0	0	10.1	40.02	56	-15.98	-	-
24	.591	17.75	Ca	0	0	10.1	27.85	-	-	46	-18.15

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.4. OPERATING CONFIGURATION 3: EUT WITH 3 WPT PHONES + 2 USB PHONES

LINE 1 RESULTS

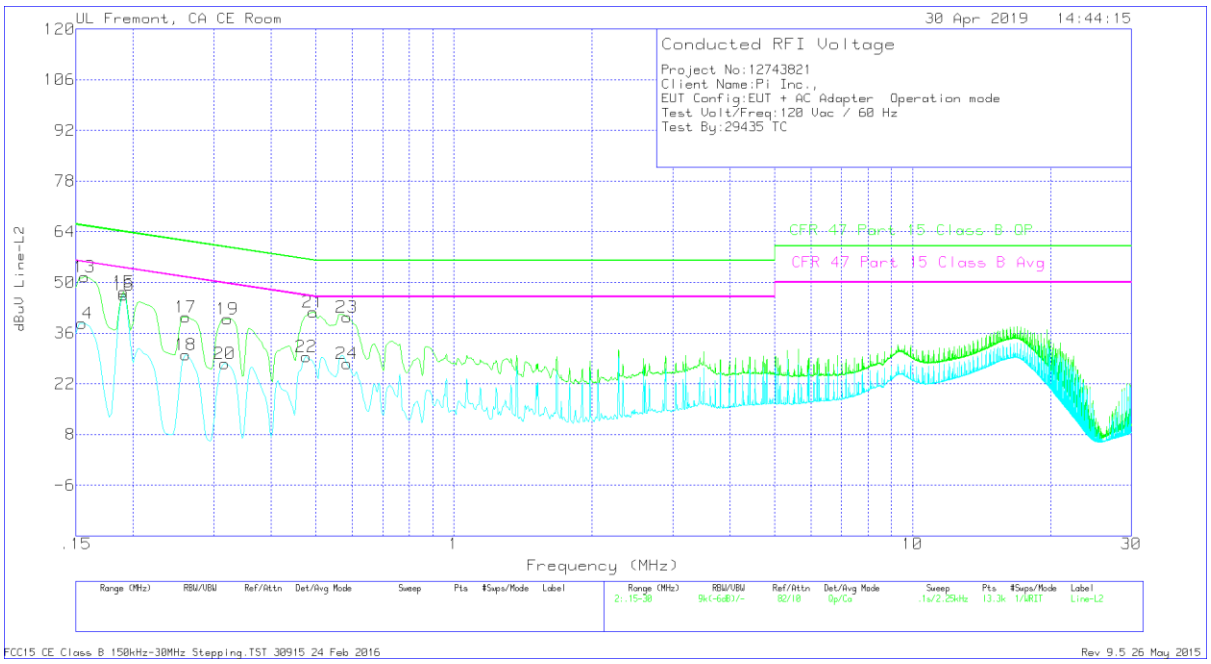


DATA

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	.15675	42.43	Qp	.1	0	10.1	52.63	65.63	-13	-	-
2	.17025	32.58	Ca	0	0	10.1	42.68	-	-	54.95	-12.27
3	.20175	35.36	Qp	0	0	10.1	45.46	63.54	-18.08	-	-
4	.1815	33.18	Ca	0	0	10.1	43.28	-	-	54.42	-11.14
5	.258	30.47	Qp	0	0	10.1	40.57	61.5	-20.93	-	-
6	.26025	19.14	Ca	0	0	10.1	29.24	-	-	51.42	-22.18
7	.31987	28.19	Qp	0	0	10.1	38.29	59.71	-21.42	-	-
8	.31425	14.59	Ca	0	0	10.1	24.69	-	-	49.86	-25.17
9	.492	29.58	Qp	0	0	10.1	39.68	56.13	-16.45	-	-
10	.47625	16.89	Ca	0	0	10.1	26.99	-	-	46.4	-19.41
11	.57525	28.04	Qp	0	0	10.1	38.14	56	-17.86	-	-
12	.57525	16.23	Ca	0	0	10.1	26.33	-	-	46	-19.67

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



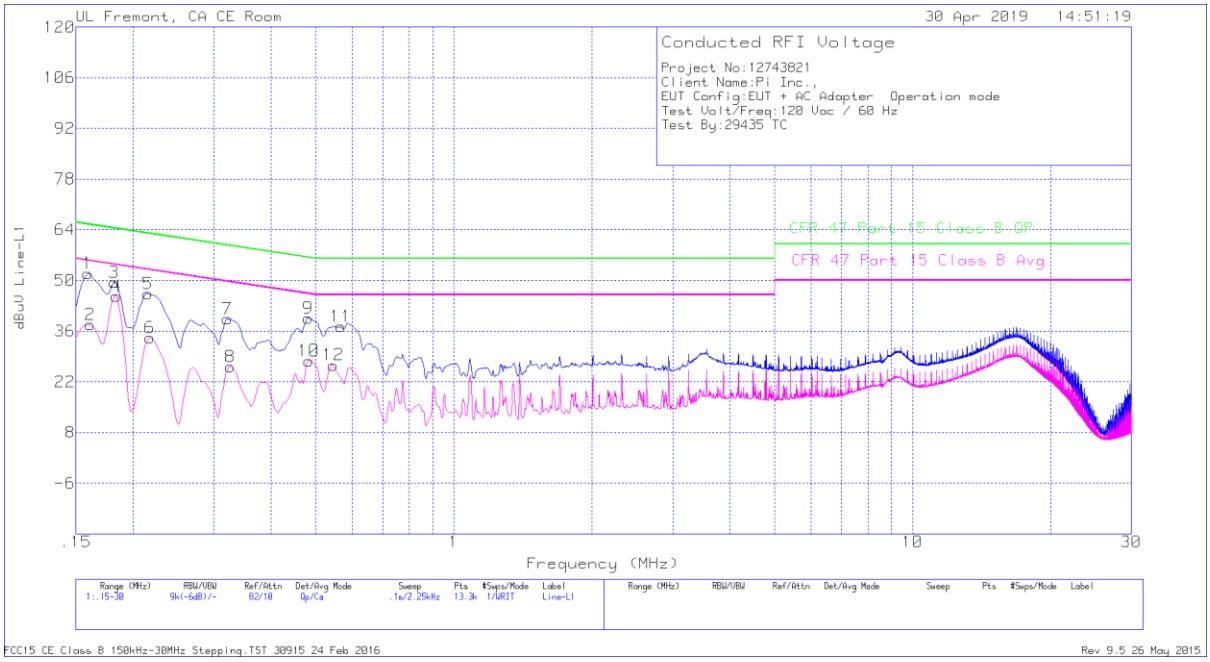
DATA

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	.15675	41.33	Qp	.1	0	10.1	51.53	65.63	-14.1	-	-
14	.1545	28.55	Ca	.1	0	10.1	38.75	-	-	55.75	-17
15	.1905	37.34	Qp	0	0	10.1	47.44	64.01	-16.57	-	-
16	.1905	36.4	Ca	0	0	10.1	46.5	-	-	54.01	-7.51
17	.26025	30.37	Qp	0	0	10.1	40.47	61.42	-20.95	-	-
18	.26025	19.88	Ca	0	0	10.1	29.98	-	-	51.42	-21.44
19	.321	29.87	Qp	0	0	10.1	39.97	59.68	-19.71	-	-
20	.3165	17.54	Ca	0	0	10.1	27.64	-	-	49.8	-22.16
21	.49425	31.73	Qp	0	0	10.1	41.83	56.1	-14.27	-	-
22	.47625	19.41	Ca	0	0	10.1	29.51	-	-	46.4	-16.89
23	.58425	30.36	Qp	0	0	10.1	40.46	56	-15.54	-	-
24	.58425	17.51	Ca	0	0	10.1	27.61	-	-	46	-18.39

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.5. OPERATING CONFIGURATION 4: EUT WITH 4 WPT PHONES + 2 USB PHONES

LINE 1 RESULTS

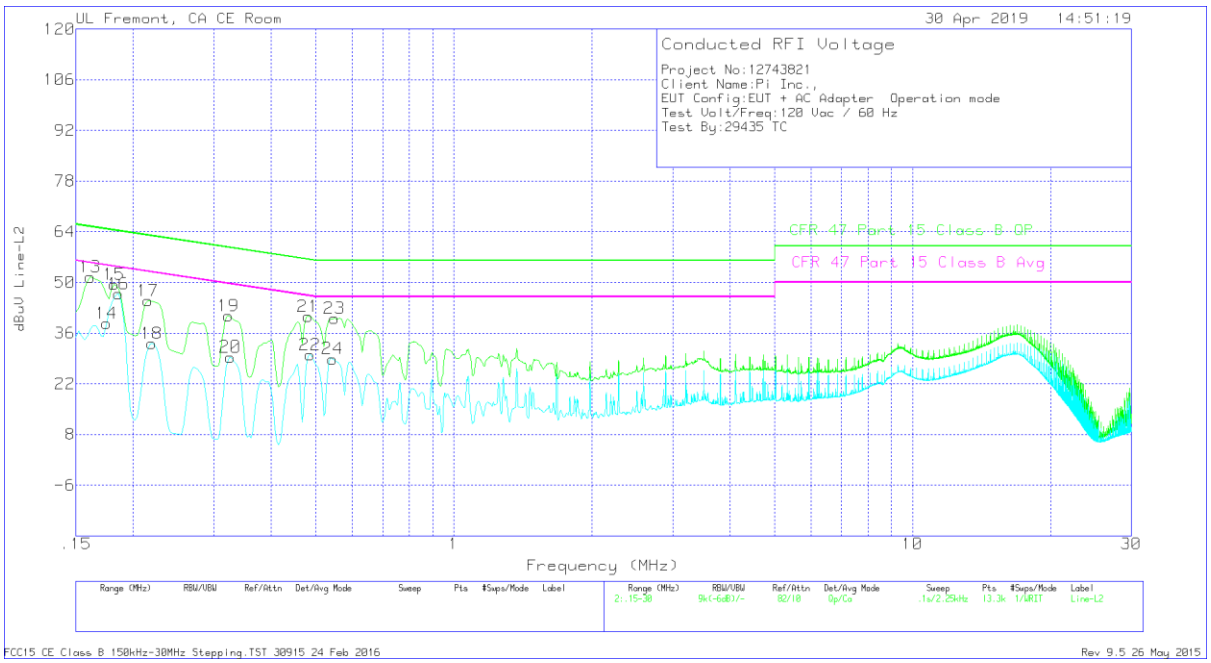


DATA

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	41.79	Qp	.1	0	10.1	51.99	65.52	-13.53	-	-
2	.16125	27.56	Ca	.1	0	10.1	37.76	-	-	55.4	-17.64
3	.1815	39.4	Qp	0	0	10.1	49.5	64.42	-14.92	-	-
4	.18375	35.54	Ca	0	0	10.1	45.64	-	-	54.31	-8.67
5	.21525	36.31	Qp	0	0	10.1	46.41	63	-16.59	-	-
6	.2175	24.12	Ca	0	0	10.1	34.22	-	-	52.91	-18.69
7	.321	29.35	Qp	0	0	10.1	39.45	59.68	-20.23	-	-
8	.3255	16.11	Ca	0	0	10.1	26.21	-	-	49.57	-23.36
9	.48075	29.48	Qp	0	0	10.1	39.58	56.33	-16.75	-	-
10	.483	17.73	Ca	0	0	10.1	27.83	-	-	46.29	-18.46
11	.56625	27.16	Qp	0	0	10.1	37.26	56	-18.74	-	-
12	.546	16.52	Ca	0	0	10.1	26.62	-	-	46	-19.38

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

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	.16125	41.28	Qp	.1	0	10.1	51.48	65.4	-13.92	-	-
14	.17475	28.56	Ca	0	0	10.1	38.66	-	-	54.73	-16.07
15	.1815	39.32	Qp	0	0	10.1	49.42	64.42	-15	-	-
16	.186	36.81	Ca	0	0	10.1	46.91	-	-	54.21	-7.3
17	.21525	34.82	Qp	0	0	10.1	44.92	63	-18.08	-	-
18	.21975	23.04	Ca	0	0	10.1	33.14	-	-	52.83	-19.69
19	.32212	30.61	Qp	0	0	10.1	40.71	59.65	-18.94	-	-
20	.3255	19.3	Ca	0	0	10.1	29.4	-	-	49.57	-20.17
21	.48075	30.55	Qp	0	0	10.1	40.65	56.33	-15.68	-	-
22	.48525	19.91	Ca	0	0	10.1	30.01	-	-	46.25	-16.24
23	.54937	29.93	Qp	0	0	10.1	40.03	56	-15.97	-	-
24	.54375	18.78	Ca	0	0	10.1	28.88	-	-	46	-17.12

Qp - Quasi-Peak detector
Ca - CISPR average detection.