

CERTIFICATION TEST REPORT

REPORT NUMBER: 12132731-E7V1

APPLICANT: SONY MOBILE COMMUNICATIONS INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

FCC ID: PY7-68553C

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

TEST STANDARD(S): FCC 47 CFR PART 15 SUBPART C

Date Of Issue:

April 20, 2018

Prepared by:

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FCC ID: PY7-68553C

Revision History

Ver.	Issue Date	Revisions	Revised By
V1	04/20/18	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

SERIAL NUMBER: CB512FH689

DATE TESTED: MARCH 21 - 30, 2018

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C 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:

Reviewed By:

Dan Coronia

Operations Leader UL Verification Services Inc. Kiya Kedida **Project Engineer**

UL Verification Services Inc.

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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, 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 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. Chambers A through C are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under Industry Canada company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

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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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 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%.

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5. EQUIPMENT UNDER TEST

5.1. **DESCRIPTION OF EUT**

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC.

5.2. MAXIMUM FIELD STRENGTH

The testing was performed at 3 meters. The transmitter maximum E-field at 30 meter distance was 14.13dBuV/m, which was converted from the 3 meter data.

5.3. **DESCRIPTION OF AVAILABLE ANTENNAS**

The radio utilizes the loop antenna.

5.4. SOFTWARE AND FIRMWARE

The software version installed in the EUT during testing was 0.199.

5.5. **WORST-CASE CONFIGURATION AND MODE**

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

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z, it was determined that Y-Axis with AC/DC adapter and headphone was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y-Axis with AC/DC adapter and headphone orientation.

NOTE: The EUT pre-scanned in three NFC type A, B & F. The worst type is A, and data rate of 106kbps was recorded to this report.

MODIFICATIONS 5.6.

No modifications were made during testing.

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5.7. **DESCRIPTION OF TEST SETUP**

SUPPORT EQUIPMENT

Support Equipment List								
Description Manufacturer Model Serial Number FCC ID								
AC Adapter	SONY	UCH12	VB17W46601037	NA				
Headphone	SONY	MH410c	N/A	N/A				

I/O CABLES

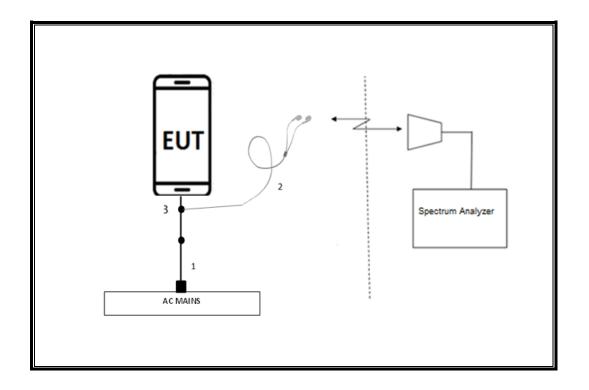
	I/O Cable List								
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks			
1	USB	1	AC Adapter	Un-Shielded	1.2m	No			
2	Jack	1	Headset	Shielded	1m	No			
3	USB/HP Jack	1	USB Type-C/Audio	Un-Shielded	.2m	Audio & Charging Cabel			

TEST SETUP

The EUT is setup as a standalone device. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS

RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



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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	ID Num	Cal Due					
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB Pad	Sunol Sciences Corp.	JB3	T407	04/14/2018					
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	PRE0165308	12/13/2018					
Amplifier, 10kHz-1GHz	Sonoma Instrument	310N	T834	06/01/2018					
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T339	09/13/2018					
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T905	02/03/2019					
Temperature Chamber	Thermotron Industires	SE-600-10-10	T80	08/22/2018					
EMI Test Receiver	Rohde & Schwarz	ESR	PRE0176493	02/21/2019					
LISN	Fischer Custom Communications	FCC-LISN- 50/250-25-2- 01	T1310	06/15/2018					
Transient Limiter	COM-POWER	LIT-930	T1457	03/01/2019					

Test Software List							
Description	Manufacturer	Model	Version				
Antenna Port Software	UL	UL EMC	Ver 8.2, Mar 21, 2018				
Radiated Emissions Software	UL	UL EMC	Ver 9.5, Dec 01, 2016				

NOTE: *testing was completed before equipment calibration expiration date.

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7. OCCUPIED BANDWIDTH

LIMITS

For reporting purposes only. Tested per ANSI C63.10 (6.9.3)

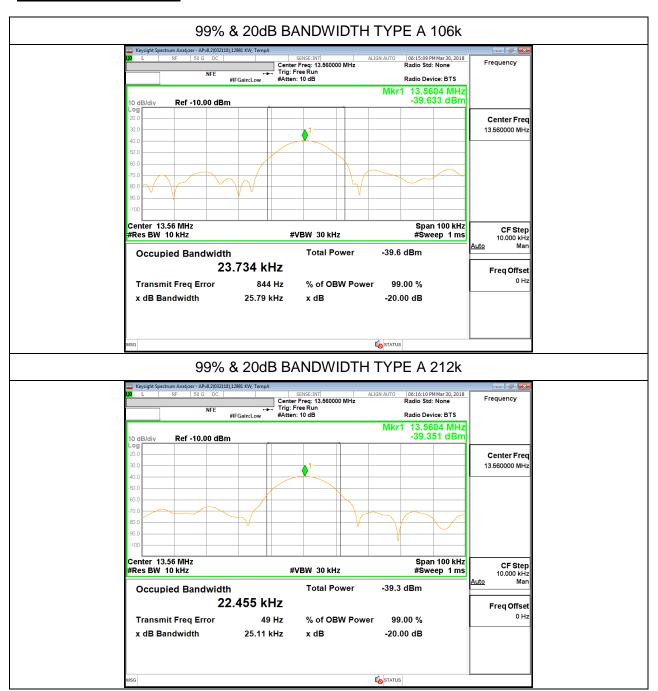
RESULTS

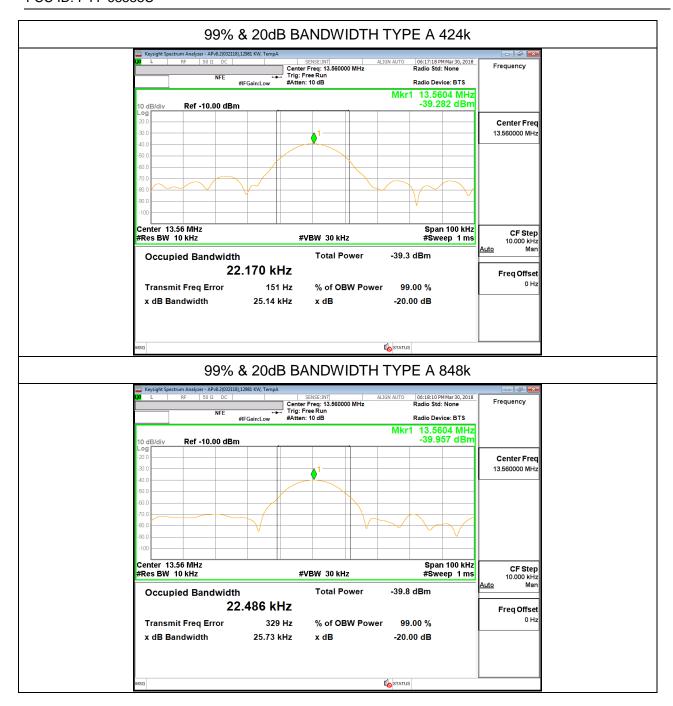
ID: KW 12981	Date:	03/30/18
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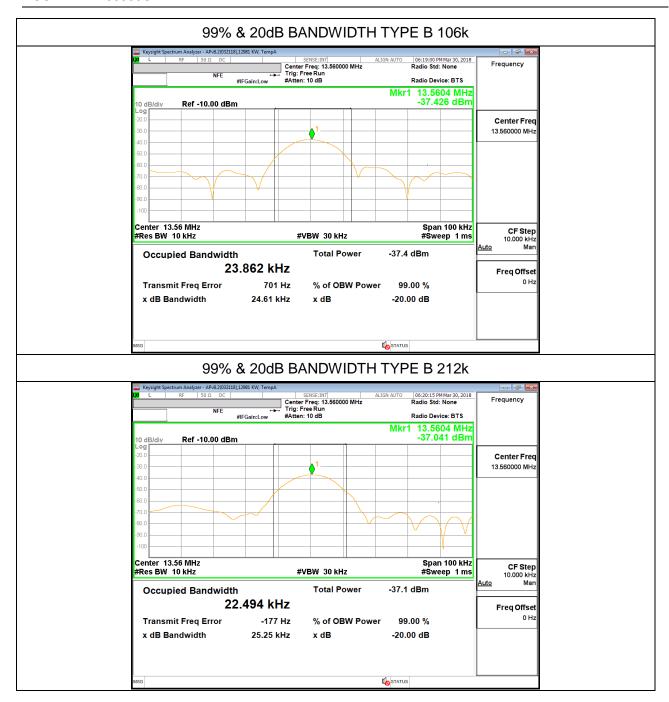
Frequency	Modulation	Data Rate	99% Bandwidth	20dB Bandwidth
(MHz)		(kbps)	(kHz)	(kHz)
		106	23.734	25.79
	Type A	212	22.455	25.11
	Type A	424	22.170	25.14
		848	22.486	25.73
	Туре В	106	23.862	24.61
13.56		212	22.494	25.25
		424	21.931	25.15
		848	21.640	25.35
		212	21.155	24.87
	Type F	424	21.110	24.92
		848	21.142	24.95

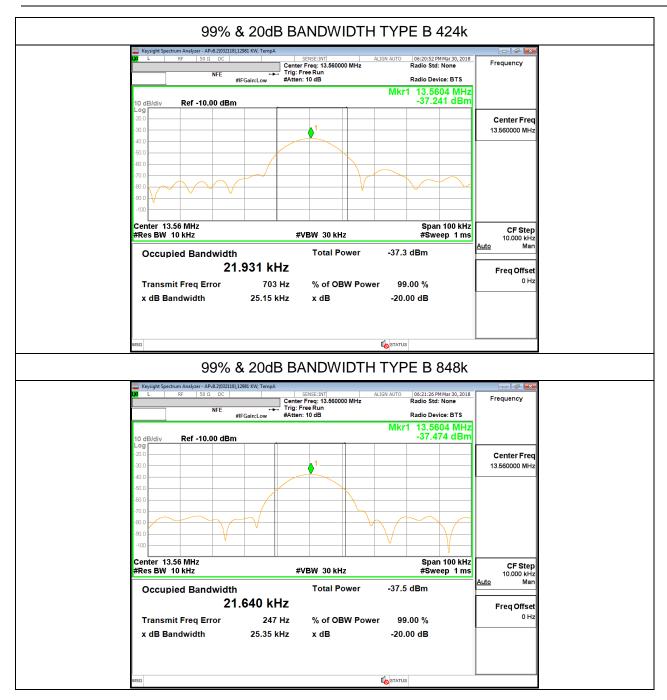
Note: Measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

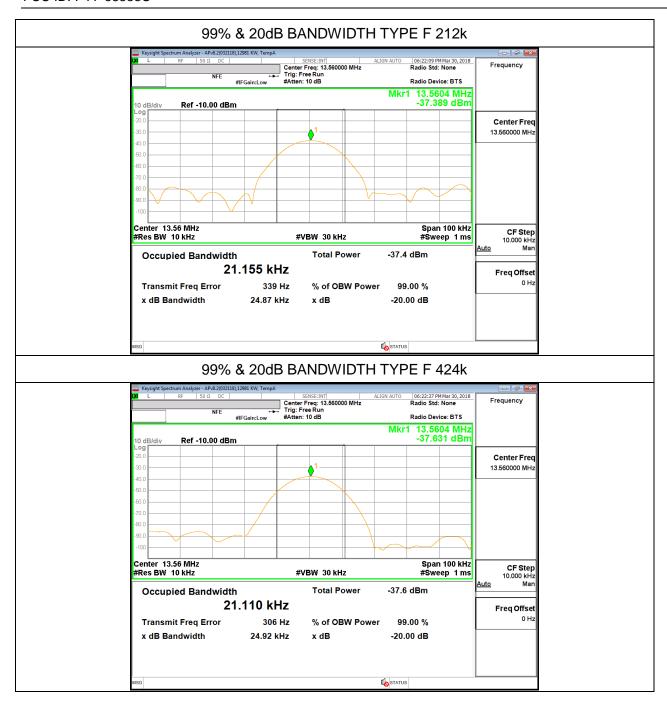
99% & 20dB Bandwidth





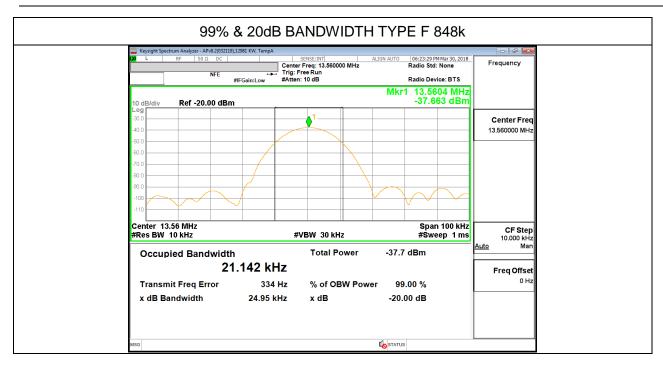






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8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225, 15.209

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:
- §15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits fo	Limits for radiated disturbance of an intentional radiator							
Frequency range (MHz)	Limits (µV/m)	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 - 216	150**	3						
216 – 960	200**	3						
Above 960	500	3						

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

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is: Limit $(dBuV/m) = 20 \log \lim (uV/m)$

In addition:

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§15.209 (d) The emission limits shown at the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10-2013

The EUT is an intentional radiator that incorporates a digital device. The highest fundamental frequency generated or used in the device is 13.56 MHz. The frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater (1000MHz)

RESULTS

No non-compliance noted:

KDB 414788 OATS and Chamber Correlation Justification

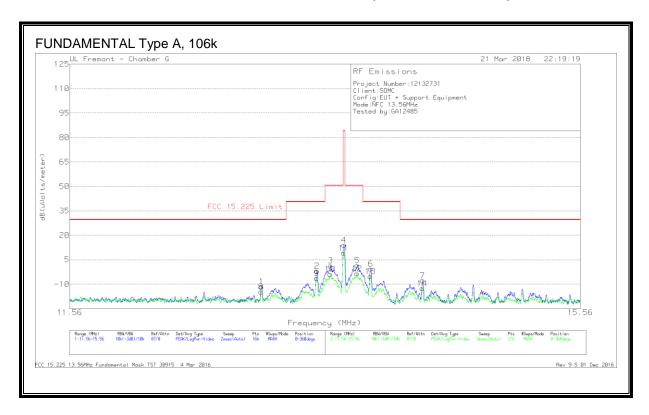
Device is a Smart Phone.

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.

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

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8.1.1. FUNDAMENTAL EMISSION MASK (11.56 – 15.56MHz)



Note: All data rate Field Strength was investigated and Type A, 106k found to have the highest Field Strength results and represents as the worst case data rate.

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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/me ter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Azimuth (Degs)
8	12.92301	14.3	Pk	10.7	.4	-40	-14.6	29.54	-44.14	0-360	Face-Off
1	12.9255	17.7	Pk	10.7	.4	-40	-11.2	29.54	-40.74	0-360	Face-On
9	13.34606	22.68	Pk	10.7	.4	-40	-6.22	40.51	-46.73	0-360	Face-Off
2	13.34788	27.03	Pk	10.7	.4	-40	-1.87	40.51	-42.38	0-360	Face-On
10	13.45181	25.06	Pk	10.7	.4	-40	-3.84	50.5	-54.34	0-360	Face-Off
3	13.45438	30.35	Pk	10.7	.4	-40	1.45	50.5	-49.05	0-360	Face-On
11	*13.55807	38.2	Pk	10.6	.4	-40	9.2	84	-74.8	0-360	Face-Off
4	*13.55975	43.13	Pk	10.6	.4	-40	14.13	84	-69.87	0-360	Face-On
12	13.66345	25.57	Pk	10.6	.4	-40	-3.43	50.5	-53.93	0-360	Face-Off
5	13.66613	30.51	Pk	10.6	.4	-40	1.51	50.5	-48.99	0-360	Face-On
13	13.76986	23.93	Pk	10.6	.4	-40	-5.07	40.51	-45.58	0-360	Face-Off
6	13.77188	28.6	Pk	10.6	.4	-40	4	40.51	-40.91	0-360	Face-On
14	14.19329	16.39	Pk	10.6	.4	-40	-12.61	29.54	-42.15	0-360	Face-Off
7	14.19563	21.19	Pk	10.6	.4	-40	-7.81	29.54	-37.35	0-360	Face-On

^{* -} Indicates fundamental frequency

Pk - Peak detector

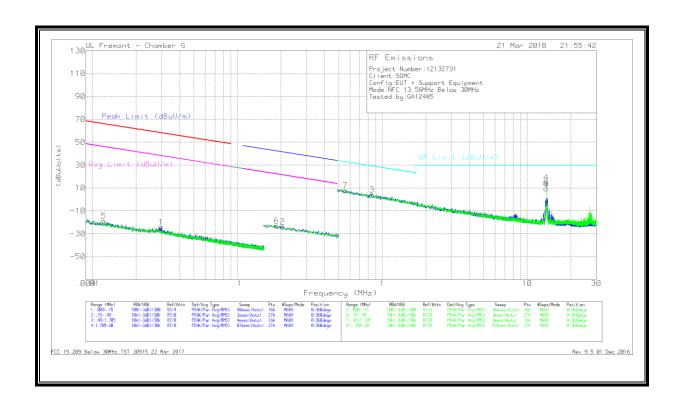
Fundamental Frequency

Frequency	Meter	Det	Loop Antenna	Cbl (dB)	Dist Corr 30m	Corrected	FCC 15.225	PK Margin	Azimuth	Antenna
(MHz)	Reading		(dB/m)			Reading	Limit	(dB)	(Degs)	Position
	(dBuV)					dB(uVolts/meter)				
*13.55807	38.2	Pk	10.6	.4	-40	9.2	84	-74.8	0-360	Face-Off
*13.55975	43.13	Pk	10.6	.4	-40	14.13	84	-69.87	0-360	Face-On

Pk - Peak detector

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8.1.2. SPURIOUS EMISSIONS (0.09 - 30MHz)



Trace Markers

Marker	Frequency (MHz)	Meter Reading	Det	Loop Antenna	Cables (dB)	Dist Corr 300m	Corrected Reading	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)
		(dBuV)		(dB/m)			(dBuVolts)									
5	.01199	43.45	Pk	17.8	0	-80	-18.75	66.01	-84.76	46.01	-64.76	-	-	-		0-360
1	.02978	42.21	Pk	13.8	0	-80	-23.99	58.11	-82.1	38.11	-62.1	-	-	-		0-360
6	.18616	45.91	Pk	11	.1	-80	-22.99	-			-	42.22	-65.21	22.22	-45.21	0-360
2	.20502	44.98	Pk	11	.1	-80	-23.92	-			-	41.38	-65.3	21.38	-45.3	0-360

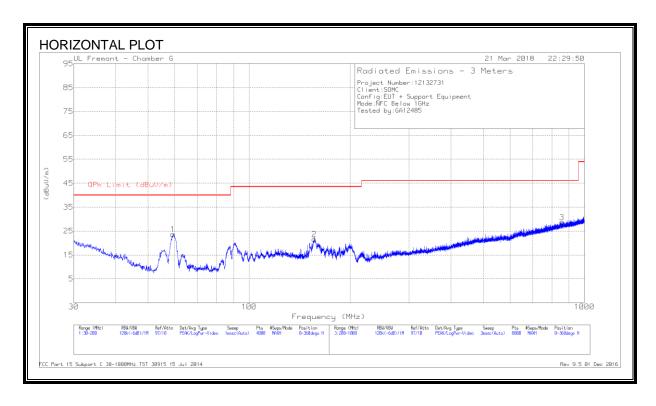
Pk - Peak detector

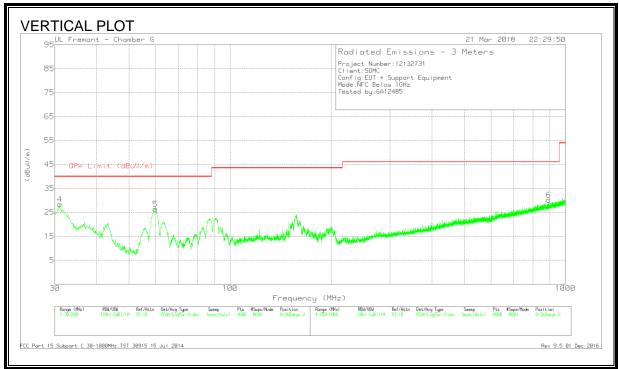
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	.55414	36.52	Pk	11.1	.1	-40	7.72	32.73	-25.01	-	-	-	-	0-360
3	.8453	32.87	Pk	11	.1	-40	3.97	29.08	-25.11	-	-	-	-	0-360
4	13.55945	43.38	Pk	11	.4	-40	14.78	29.5	-14.72	-	-	-	-	0-360
8	13.55945	38.01	Pk	11	.4	-40	9.41	29.5	-20.09	-	-	-	-	0-360

^{* -} Indicates fundamental frequency

Pk - Peak detector

8.1.3. TX SPURIOUS EMISSIONS (30 – 1000MHz)





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Trace Markers

Marker	Frequency	Meter	Det	AF T407 (dB/m)	Amp Cbl (dB)	Corrected	QPk Limit (dBuV/m)	Margin	Azimuth	Height	Polarity
	(MHz)	Reading				Reading		(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
4	31.0628	36.21	Pk	23.4	-31.2	28.41	40	-11.59	0-360	100	V
1	59.2901	43.09	Pk	11.5	-30.9	23.69	40	-16.31	0-360	400	Н
5	59.9065	45.8	Pk	11.5	-30.9	26.4	40	-13.6	0-360	100	V
2	156.6403	35.17	Pk	16.3	-29.9	21.57	43.52	-21.95	0-360	100	Н
3	856.9854	28.99	Pk	25.9	-26.3	28.59	46.02	-17.43	0-360	200	Н
6	891.9899	30.1	Pk	26.1	-26	30.2	46.02	-15.82	0-360	300	V

^{* -} indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

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9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range	Limits (dBμV)					
(MHz)	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				

Notes:

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

TEST PROCEDURE

ANSI C63.10

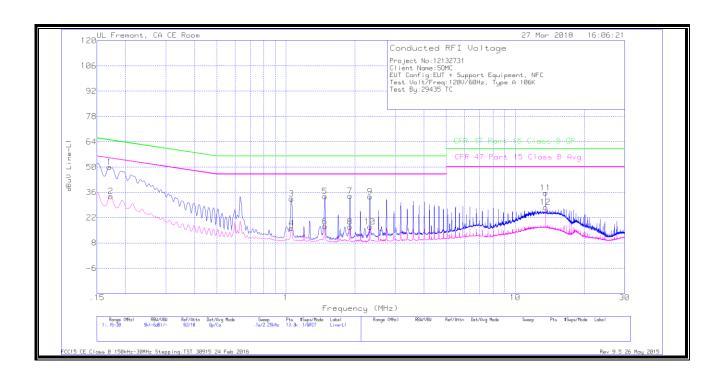
RESULTS

No non-compliance noted.

TEL: (510) 771-1000

FCC ID: PY7-68553C

EUT WITH ANTENNA - LINE 1 RESULTS



WORST EMISSIONS

Range	1: Line-L1 .	15 - 30MH	łz								
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	.17025	39.94	Qp	0	0	10.1	50.04	64.95	-14.91	-	-
2	.1725	23.7	Ca	0	0	10.1	33.8	-	-	54.84	-21.04
3	1.05675	22.18	Qp	0	.1	10.1	32.38	56	-23.62	-	-
4	1.059	5.89	Ca	0	.1	10.1	16.09	-	-	46	-29.91
5	1.47975	23.58	Qp	0	.1	10.1	33.78	56	-22.22	-	-
6	1.47975	6.99	Ca	0	.1	10.1	17.19	-	-	46	-28.81
7	1.90275	23.81	Qp	0	.1	10.1	34.01	56	-21.99	-	-
8	1.90275	6.73	Ca	0	.1	10.1	16.93	-	-	46	-29.07
9	2.3235	23.48	Qp	0	.1	10.1	33.68	56	-22.32	-	-
10	2.3235	6.76	Ca	0	.1	10.1	16.96	-	-	46	-29.04
11	13.56	25.18	Qp	.1	.2	10.2	35.68	60	-24.32	-	-
12	13.56	17.22	Ca	.1	.2	10.2	27.72	-	-	50	-22.28

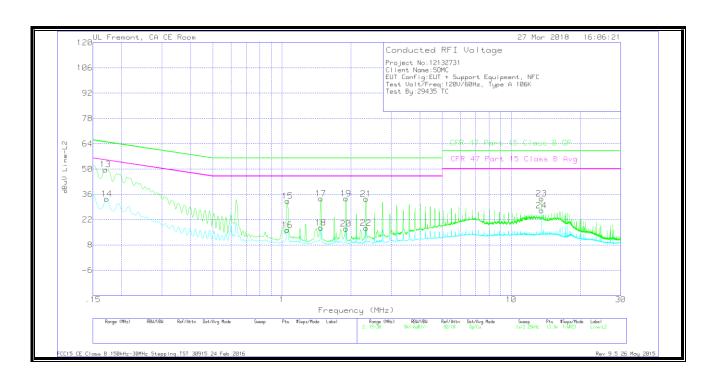
Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: Markers 11 and 12 are the 13.56MHz NFC Fundamental

FCC ID: PY7-68553C

EUT WITH ANTENNA-LINE 2 RESULTS



WORST EMISSIONS

Range	2: Line-L2 .	15 - 30MH	lz								
Marker	Frequency	Meter	Det	LISN L2	LC Cables	Limiter	Corrected	CFR 47	QP Margin	CFR 47	Av(CISPR)
	(MHz)	Reading			C2&C3	(dB)	Reading	Part 15	(dB)	Part 15	Margin
		(dBuV)					dBuV	Class B QP		Class B Avg	(dB)
13	.17025	39.64	Qp	0	0	10.1	49.74	64.95	-15.21	-	-
14	.1725	23.45	Ca	0	0	10.1	33.55	-	-	54.84	-21.29
15	1.05675	21.99	Qp	0	.1	10.1	32.19	56	-23.81	-	-
16	1.0545	6.09	Ca	0	.1	10.1	16.29	-	-	46	-29.71
17	1.47975	23.53	Qp	0	.1	10.1	33.73	56	-22.27	-	-
18	1.47975	7.25	Ca	0	.1	10.1	17.45	-	-	46	-28.55
19	1.90275	23.51	Qp	0	.1	10.1	33.71	56	-22.29	-	-
20	1.90275	6.76	Ca	0	.1	10.1	16.96	-	-	46	-29.04
21	2.3235	23.24	Qp	0	.1	10.1	33.44	56	-22.56	-	-
22	2.3235	7.1	Ca	0	.1	10.1	17.3	-	-	46	-28.7
23	13.56	23.14	Qp	.1	.2	10.2	33.64	60	-26.36	-	-
24	13.56	16.63	Ca	.1	.2	10.2	27.13	-	-	50	-22.87

Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: Markers 23 and 24 are the 13.56MHz NFC Fundamental

FCC ID: PY7-68553C

10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency, over a temperature variation of -10 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

TEST PROCEDURE

ANSI C63.10

RESULTS

ID: K	N 12981	Date:	3/30/18
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No non-compliance noted.

			Refere	nce Frequency	: EUT Channe	el 13.56 MHz @	20°C			
			Limit:	± 100 ppm =		1.356	kHz			
Power	Envir.									
Supply	Temp			Frequen	cy Deviation I	Measureed with	n Time Ela	apse		
		Startup	Delta	@ 2 mins	Delta	@ 5 mins	Delta	@ 10 mins	Delta	Limit
(Vdc)	(°C)	(MHz)	(ppm)	(MHz)	(ppm)	(MHz)	(ppm)	(MHz)	(ppm)	(ppm)
3.80	50	13.5600132	0.544	13.5600148	0.424	13.5600158	0.349	13.5600164	0.307	± 100
3.80	40	13.5600130	0.558	13.5600123	0.610	13.5600121	0.621	13.5600123	0.611	± 100
3.80	30	13.5600192	0.099	13.5600187	0.135	13.5600179	0.194	13.5600170	0.264	± 100
3.80	20	13.5600205	0.000	13.5600212	-0.050	13.5600214	-0.065	13.5600215	-0.074	± 100
3.80	10	13.5600253	-0.354	13.5600288	-0.611	13.5600308	-0.754	13.5600345	-1.030	± 100
3.80	0	13.5600383	-1.310	13.5600408	-1.493	13.5600457	-1.855	13.5600506	-2.219	± 100
3.80	-10	13.5600620	-3.057	13.5600675	-3.462	13.5600714	-3.753	13.5600754	-4.047	± 100
3.23	20	13.5600188	0.130	13.5600191	0.108	13.5600193	0.094	13.5600195	0.079	± 100
4.37	20	13.5600223	-0.132	13.5600219	-0.098	13.5600216	-0.081	13.5600214	-0.066	± 100