



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

1960s CANISTER TASK TABLE LAMP WITH WIRELESS CHARGING

MODEL NUMBER: TL1071

FCC ID: 2AZGPTL1071

REPORT NUMBER: 4789814649-4-1

ISSUE DATE: March 11, 2021

Prepared for

**CALLTON LIGHTING CO.,LTD
No.56,168Ind.Park, JingMei Management Zone, Dongkeng Town, Dongguan City,
Guangdong Province, China**

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	03/11/2021	Initial Issue	

Summary of Test Results		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC 15.207	PASS
Radiated Emission Test	FCC 15.209	PASS
20dB Bandwidth	FCC 15.215	PASS

This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: CALLTON LIGHTING CO.,LTD
Address: No.56,168Ind.Park, JIngMei Management Zone, Dongkeng Town, Dongguan City, Guangdong Province, China

Manufacturer Information

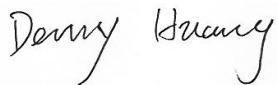
Company Name: CALLTON LIGHTING CO.,LTD
Address: No.56,168Ind.Park, JIngMei Management Zone, Dongkeng Town, Dongguan City, Guangdong Province, China

EUT Information

EUT Name: 1960s CANISTER TASK TABLE LAMP WITH WIRELESS CHARGING
Model: TL1071
Brand: /
Sample Received Date: February 3, 2021
Sample Status: Normal
Sample ID: 3645294
Date of Tested: February 8, 2021 ~ March 4, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC CFR 47 Part 2, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction Emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
DTS and 99% Occupied Bandwidth	±0.0196%

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	1960s CANISTER TASK TABLE LAMP WITH WIRELESS CHARGING	
EUT Description	1960s CANISTER TASK TABLE LAMP WITH WIRELESS CHARGING	
Model	TL1071	
Product Description	Operation Frequency	110 ~ 205 kHz
Rated Output Power	10 W	
Antenna type	Coil	
Ratings	AC 120 V, 60 Hz	

5.2. TEST MODE

Test Mode	Description
Mode 1	Charging with 10 W wireless charging load (Full Load)
Mode 2	Charging with 10 W wireless charging load (Half Load)
Mode 3	Charging with 10 W wireless charging load (No Load)

Note: All the modes had been tested, but only the worst data was recorded in the report.

5.3. ACCESSORY

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Series No.
1	Wireless charger RX artificial load	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

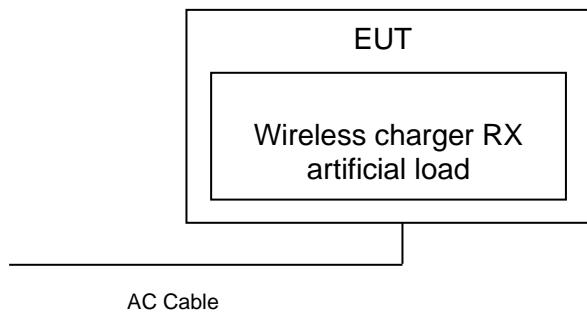
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT support wireless charging.

SETUP DIAGRAM FOR TEST



5.4. MEASURING INSTRUMENT LIST

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V-Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1
Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17, 2022
Preamplifier	TDK	PA-02-001-3000	TRS-305-00067	Nov.12,2020	Nov.11,2021
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1
Other Instrument					
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Due. Date
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030A	MY55410512	Nov.20,2020 Nov.19,2021

6. 20dB BANDWIDTH TEST

LIMITS

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.215, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

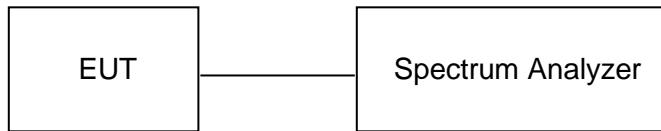
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 99%/20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

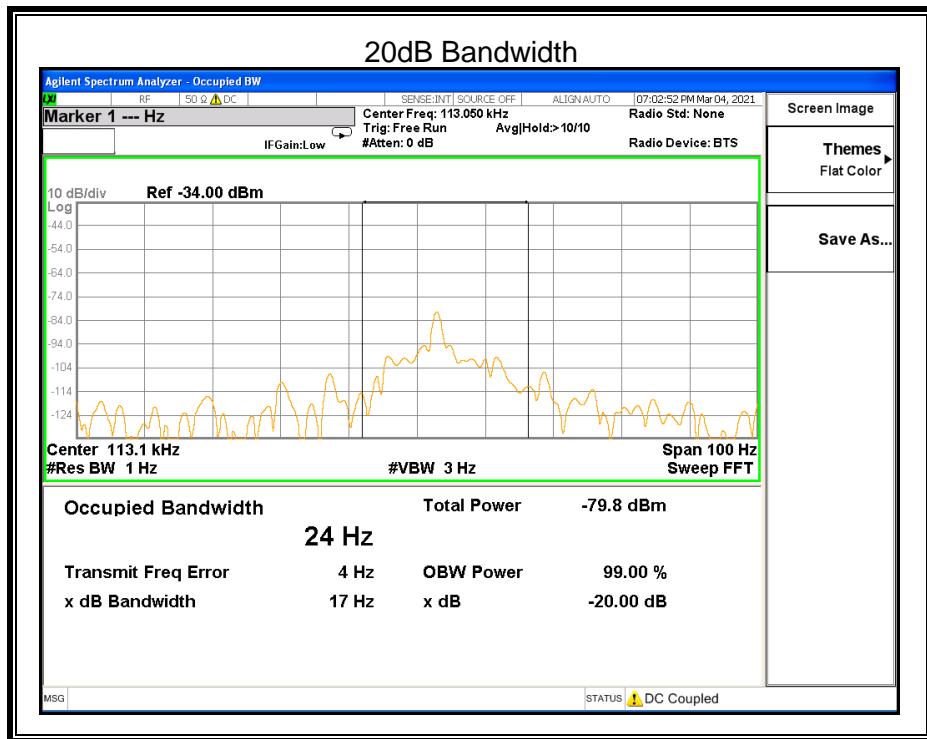


TEST ENVIRONMENT

Temperature	25.2 °C	Relative Humidity	59.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Frequency (KHz)	20dB Bandwidth (Hz)	99% Bandwidth (Hz)
113.1	17	24



7. RADIATED EMISSION TEST

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

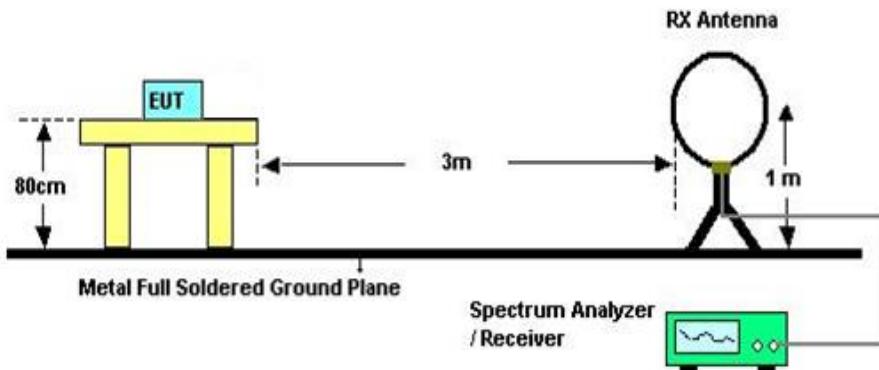
Radiated emissions limits for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

TEST SETUP AND PROCEDURE

Below 30 MHz

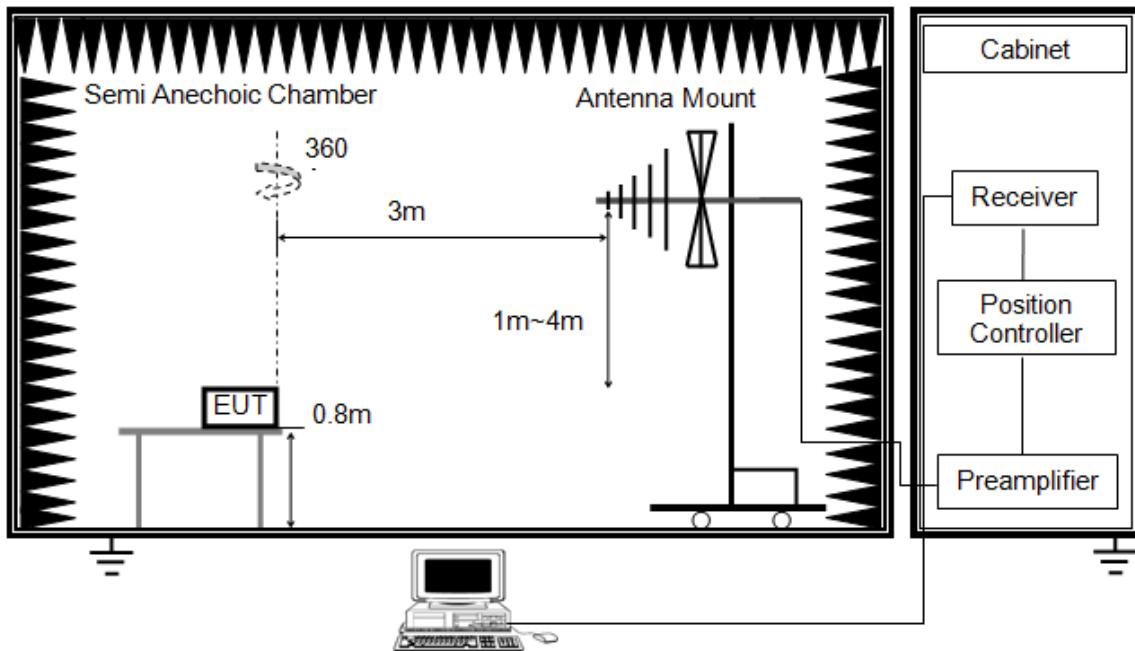


The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits 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 emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field 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 site based on KDB 414788.

Below 1 GHz and above 30 MHz



The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

TEST ENVIRONMENT

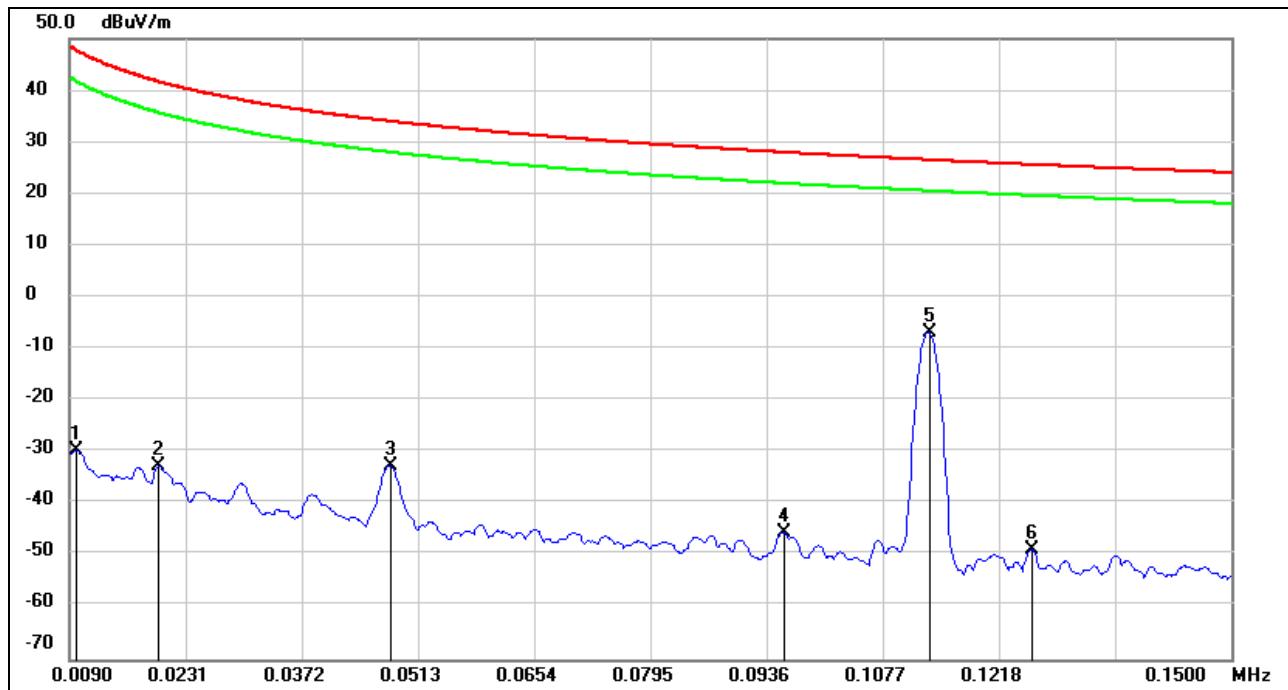
Temperature	22.9 °C	Relative Humidity	65.0 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

7.1. SPURIOUS EMISSIONS BELOW 30 MHz

FCC PART 15C BELOW 30MHz SPURIOUS EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)

9 kHz ~ 150 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.0098	71.81	-101.5	-29.69	-81.19	47.75	-3.75	-77.44	peak
2	0.0199	68.34	-100.99	-32.65	-84.15	41.62	-9.88	-74.27	peak
3	0.0478	68.77	-101.35	-32.58	-84.08	34.01	-17.49	-66.59	peak
4	0.0956	55.76	-101.21	-45.45	-96.95	27.99	-23.51	-73.44	peak
5	0.1132	94.57	-101.45	-6.88	-58.38	26.53	-24.97	-33.41	peak
6	0.1257	52.82	-101.6	-48.78	-100.28	25.62	-25.88	-74.4	peak

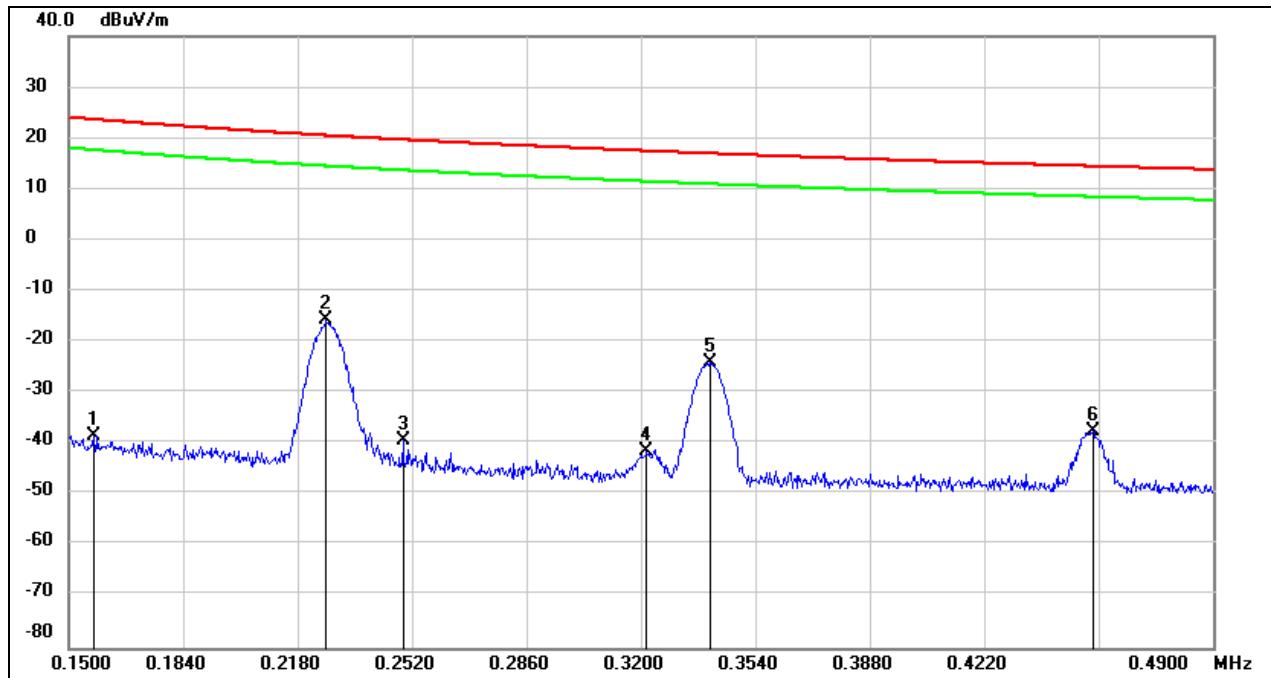
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).

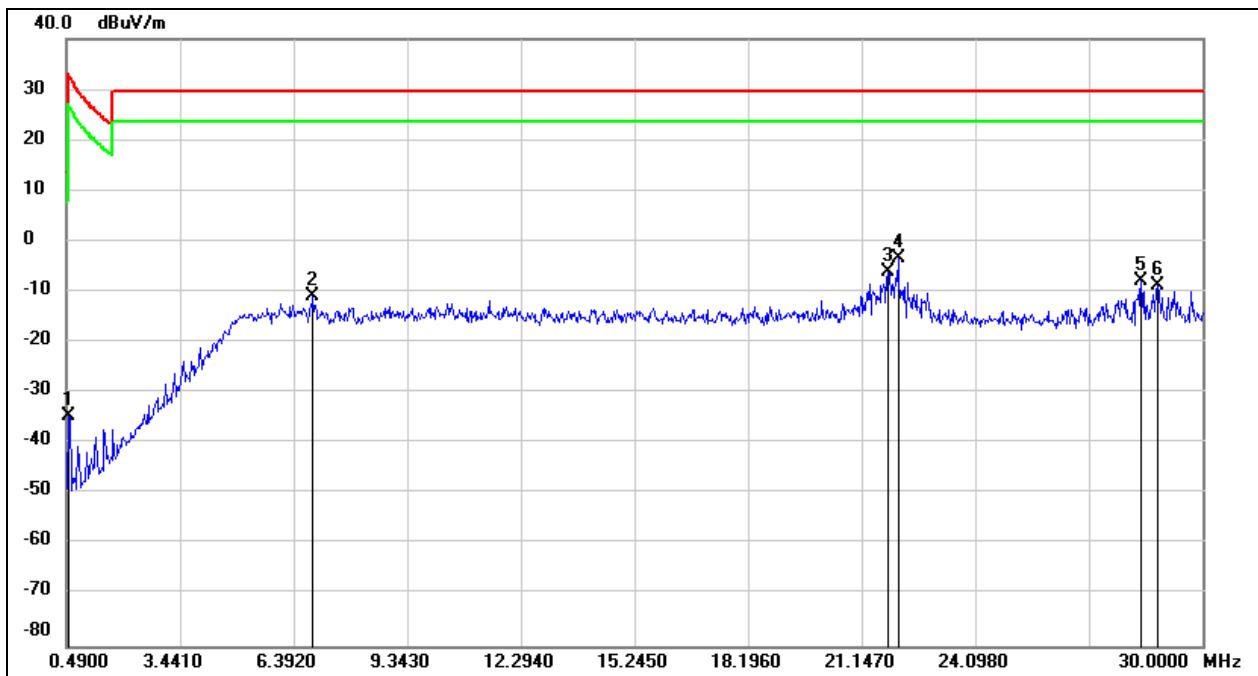
5. dBuA/m = dBuV/m - 20log10(120π) = dBuV/m -51.5.

150 kHz ~ 490 kHz


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.1575	63.44	-101.88	-38.44	-89.94	23.66	-27.84	-62.1	peak
2	0.2265	86.03	-101.81	-15.78	-67.28	20.50	-31.00	-36.28	peak
3	0.2493	62.45	-101.79	-39.34	-90.84	19.67	-31.83	-59.01	peak
4	0.3217	60.29	-101.77	-41.48	-92.98	17.45	-34.05	-58.93	peak
5	0.3404	77.72	-101.76	-24.04	-75.54	16.96	-34.54	-41.00	peak
6	0.4543	64.23	-101.72	-37.49	-88.99	14.46	-37.04	-51.95	peak

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

490 kHz ~ 30 MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.549	66.64	-101.28	-34.64	-86.14	32.81	-18.69	-67.45	peak
2	6.8937	50.87	-61.65	-10.78	-62.28	29.54	-21.96	-40.32	peak
3	21.8257	54.85	-61.04	-6.19	-57.69	29.54	-21.96	-35.73	peak
4	22.0912	57.65	-61.04	-3.39	-54.89	29.54	-21.96	-32.93	peak
5	28.4065	52.82	-60.75	-7.93	-59.43	29.54	-21.96	-37.47	peak
6	28.8196	51.84	-60.73	-8.89	-60.39	29.54	-21.96	-38.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

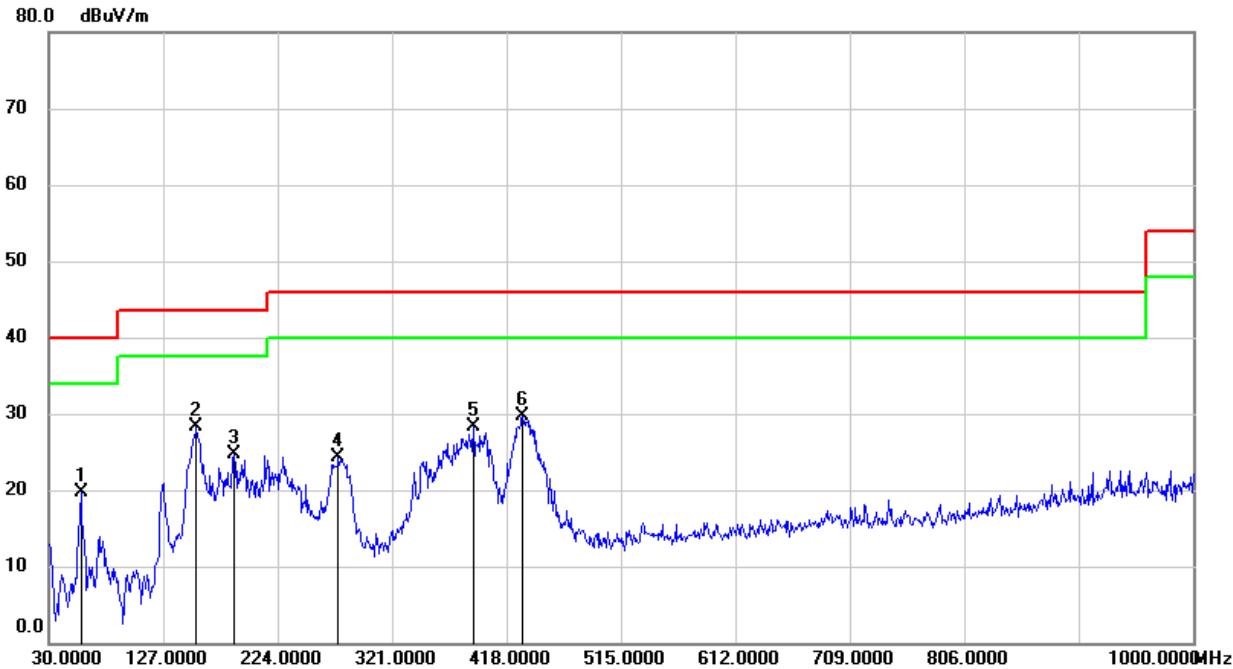
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).

5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

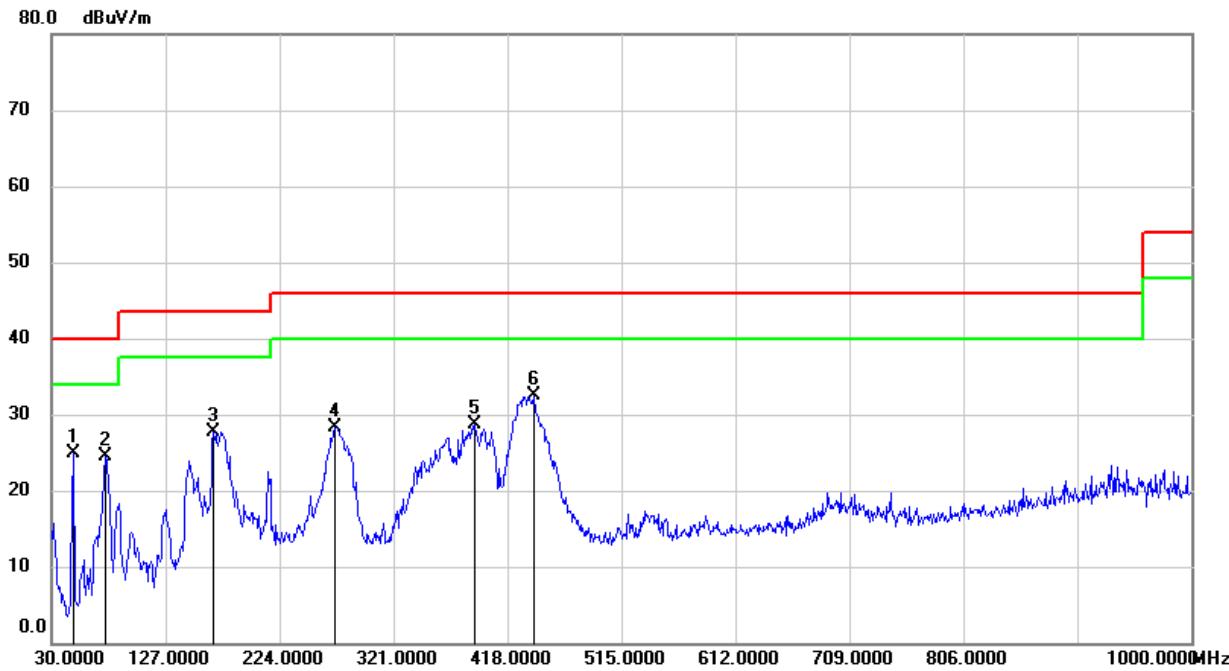
7.2. SPURIOUS EMISSIONS 30 MHz ~ 1 GHz

FCC PART15C SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	57.1600	40.37	-20.58	19.79	40.00	-20.21	QP
2	155.1300	46.38	-18.01	28.37	43.50	-15.13	QP
3	187.1400	41.40	-16.69	24.71	43.50	-18.79	QP
4	275.4100	41.53	-17.17	24.36	46.00	-21.64	QP
5	389.8700	41.77	-13.49	28.28	46.00	-17.72	QP
6	431.5800	42.31	-12.70	29.61	46.00	-16.39	QP

Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
 4. All the noise are created from the digital circuit. It is not created by wireless charging circuit.

FCC PART15C SPURIOUS EMISSIONS (VERTICAL)

No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.4300	45.52	-20.63	24.89	40.00	-15.11	QP
2	75.5899	45.51	-20.99	24.52	40.00	-15.48	QP
3	167.7400	45.19	-17.41	27.78	43.50	-15.72	QP
4	270.5600	46.02	-17.69	28.33	46.00	-17.67	QP
5	389.8700	42.16	-13.49	28.67	46.00	-17.33	QP
6	440.3100	45.13	-12.56	32.57	46.00	-13.43	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto
4. All the noise are created from the digital circuit. It is not created by wireless charging circuit.

8. AC POWER LINE CONDUCTED EMISSIONS

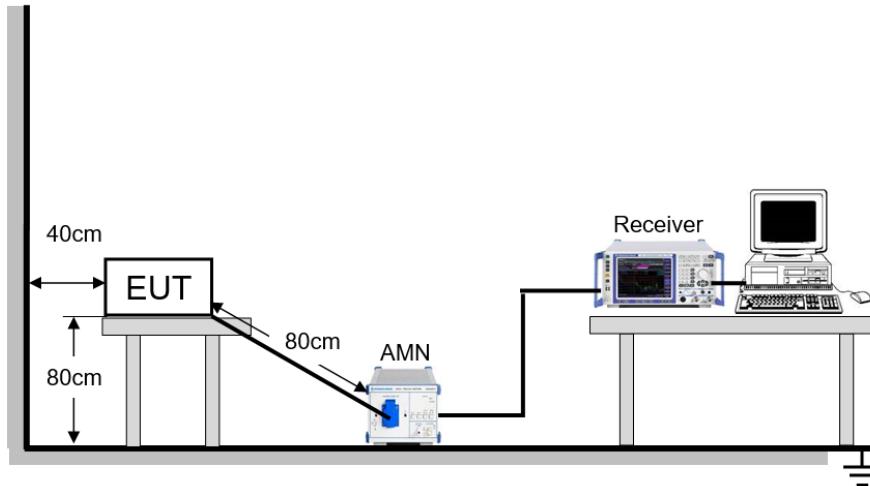
LIMITS

Please refer to CFR 47 FCC §15.207 (a)

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

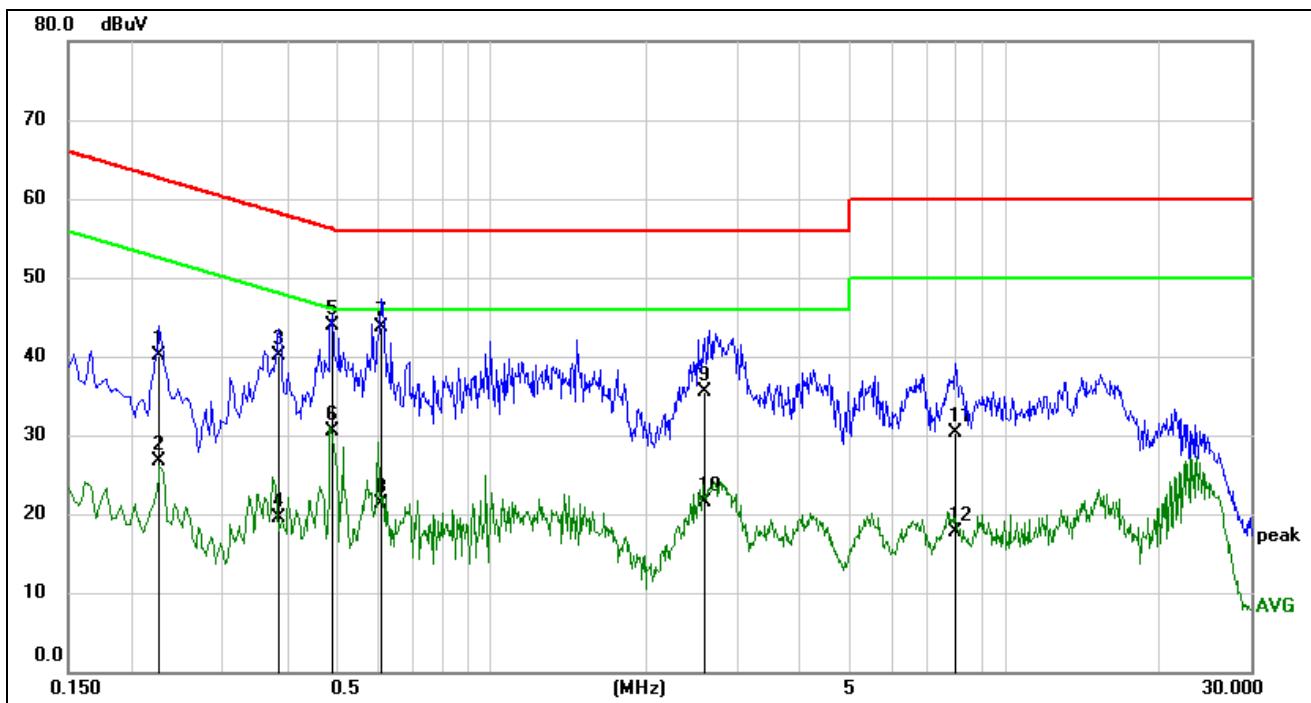


The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

Temperature	23.9 °C	Relative Humidity	54.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS**LINE L1 RESULTS**

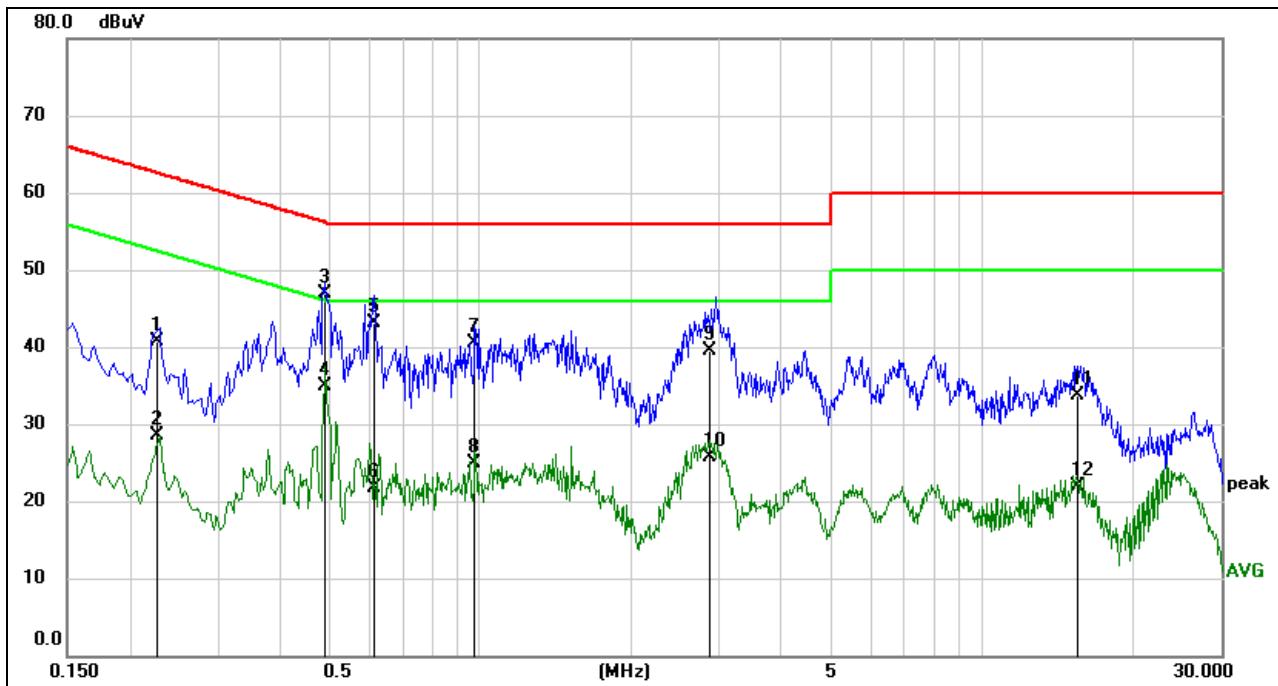
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2251	30.55	9.59	40.14	62.63	-22.49	QP
2	0.2251	17.15	9.59	26.74	52.63	-25.89	AVG
3	0.3858	30.49	9.59	40.08	58.15	-18.07	QP
4	0.3858	9.99	9.59	19.58	48.15	-28.57	AVG
5	0.4886	34.39	9.60	43.99	56.19	-12.20	QP
6	0.4886	20.84	9.60	30.44	46.19	-15.75	AVG
7	0.6108	34.16	9.60	43.76	56.00	-12.24	QP
8	0.6108	11.76	9.60	21.36	46.00	-24.64	AVG
9	2.6005	25.84	9.62	35.46	56.00	-20.54	QP
10	2.6005	11.88	9.62	21.50	46.00	-24.50	AVG
11	8.0309	20.74	9.61	30.35	60.00	-29.65	QP
12	8.0309	8.04	9.61	17.65	50.00	-32.35	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

LINE N RESULTS

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2267	31.06	9.59	40.65	62.57	-21.92	QP
2	0.2267	18.87	9.59	28.46	52.57	-24.11	AVG
3	0.4907	37.24	9.60	46.84	56.16	-9.32	QP
4	0.4907	25.37	9.60	34.97	46.16	-11.19	AVG
5	0.6116	33.48	9.60	43.08	56.00	-12.92	QP
6	0.6116	12.14	9.60	21.74	46.00	-24.26	AVG
7	0.9786	30.98	9.61	40.59	56.00	-15.41	QP
8	0.9786	15.21	9.61	24.82	46.00	-21.18	AVG
9	2.8804	29.95	9.62	39.57	56.00	-16.43	QP
10	2.8804	16.16	9.62	25.78	46.00	-20.22	AVG
11	15.5189	24.05	9.65	33.70	60.00	-26.30	QP
12	15.5189	12.29	9.65	21.94	50.00	-28.06	AVG

Note: 1. Result = Reading +Correct Factor.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

END OF REPORT