

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Magnetic Wireless Power Bank with Built-in USB-C Cable

MODEL NUMBER: PS-725C-30

REPORT NUMBER: E04A25040499F00101

ISSUE DATE: April 17, 2025

FCC ID: 2AQTM-PS725C30

Prepared for

Power System Electronic Technology Co., Ltd.

**No.1 Shangbian Road, Puxin Industrial District, Shipai Town, Dongguan City,
Guangdong, China**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above mentioned
Product, it does not imply an assessment of the production of the products.**

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Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 17, 2025	Initial Issue	

Summary of Test Results

Test Item	Limit/Requirement	Result
Antenna Requirement	FCC Part 15.203	Pass
AC Power Line Conducted Emission	FCC Part 15.207	Pass
20dB Bandwidth	FCC Part 15.215	Pass
Radiated Emission	FCC Part 15.205/15.209	Pass

Note:

1. N/A: In this whole report not applicable.

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

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Power System Electronic Technology Co., Ltd.
Address: No.1 Shangbian Road, Puxin Industrial District, Shipai Town,
Dongguan City, Guangdong, China

Manufacturer Information

Company Name: Power System Electronic Technology Co., Ltd.
Address: No.1 Shangbian Road, Puxin Industrial District, Shipai Town,
Dongguan City, Guangdong, China

EUT Information

Product Description: Magnetic Wireless Power Bank with Built-in USB-C Cable
Model: PS-725C-30
Brand: /
Sample Received Date: April 14, 2025
Sample Status: Normal
Sample ID: A25040499 001
Date of Tested: April 14, 2025 to April 17, 2025

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

Prepared By:

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Win Huang

Project Engineer

Checked By:

Shawn Wen

Shawn Wen

Laboratory Leader

Approved By:

Shawn Wen

Shawn Wen

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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 Items	k	Uncertainty
20dB Emission Bandwidth	2	±9.2 PPM
Temperature	2	±0.5°C
Humidity	2	±3%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
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	Magnetic Wireless Power Bank with Built-in USB-C Cable
Model	PS-725C-30
Series Model	/
Hardware Version	V1.0
Software Version	V1.0
Ratings	USB-C1/C2 Cable Input: PD 18W, 5V == 3A, 9V == 2A, 12V == 1.5A USB-C1/C2 Cable Output: PD 30W, 5V == 3A, 9V == 3A, 12V == 2.5A, 15V == 2A, 20V == 1.5A Magnetic Wireless Output: 15W Max (USB-C1+USB-C2 Cable)/(USB-C1/USB-C2 Cable+Wireless) Output: 15W Total Output: 15W Rated: 5,000mAh/7.74V/38.7Wh Single Cell Equivalent Capacity: 10,000mAh/3.87V/38.7Wh(Lithium Polymer Battery)
Power Supply	DC 5V / DC 9V / DC 12V / Battery 7.74V
Operation Mode	Wireless Charging
Operating Frequency	113-205KHz for charging 360KHz for charging
Wireless Charging Power	15W(Max) for charging
Modulation Technique	ASK
Antenna Type	Coil Antenna

5.2. TEST MODE

Test Mode	Description
M01	The EUT charges 15W load (113-205KHz)
M02	The EUT charges 15W load (360KHz)

5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

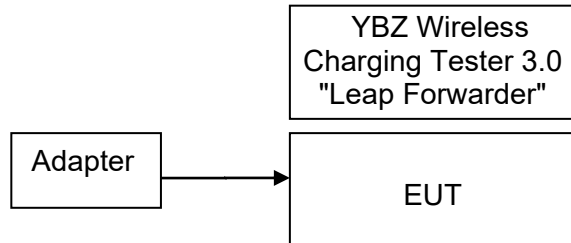
No.	Equipment	Manufacturer	Model No.	Serial No.	Note
1	YBZ Wireless Charging Tester 3.0 "Leap Forwarder"	YBZ	YBZ Intelligent wireless charging full function test module	/	Power System Electronic Technology Co., Ltd.
2	Adapter	nubia	PA0202	/	GTG

The following cables were used to form a representative test configuration during the tests.

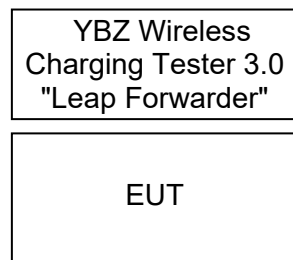
Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB-C cable	Unshielded	without ferrite	1.5 m

5.4. SETUP DIAGRAM

AC conducted emission:



Radiated Emission:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESC13	101409	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2024/09/14	2025/09/13
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. RADIATED TEST RESULTS

LIMITS

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

Radiation Disturbance Test Limit 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

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field Strength Limit (dBuV/m) at 3 m
			Quasi-Peak
0.009-0.490	2400/F(kHz)	300	128.5-93.8
0.490-1.705	24000/F(kHz)	30	73.8-63.0
1.705-30.0	30	30	69.5

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note:¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST 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

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 80 cm 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 30m 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.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding 15.209(a) limit.

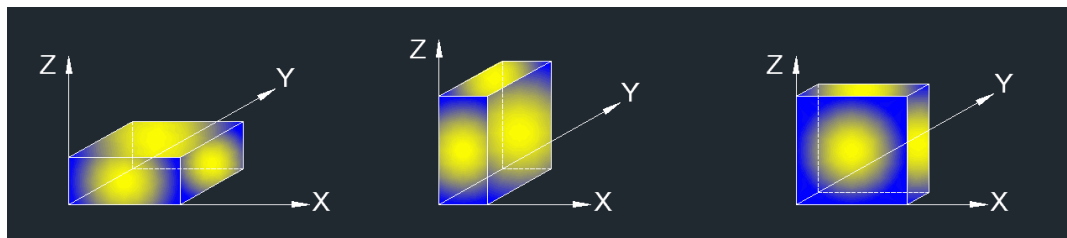
Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

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

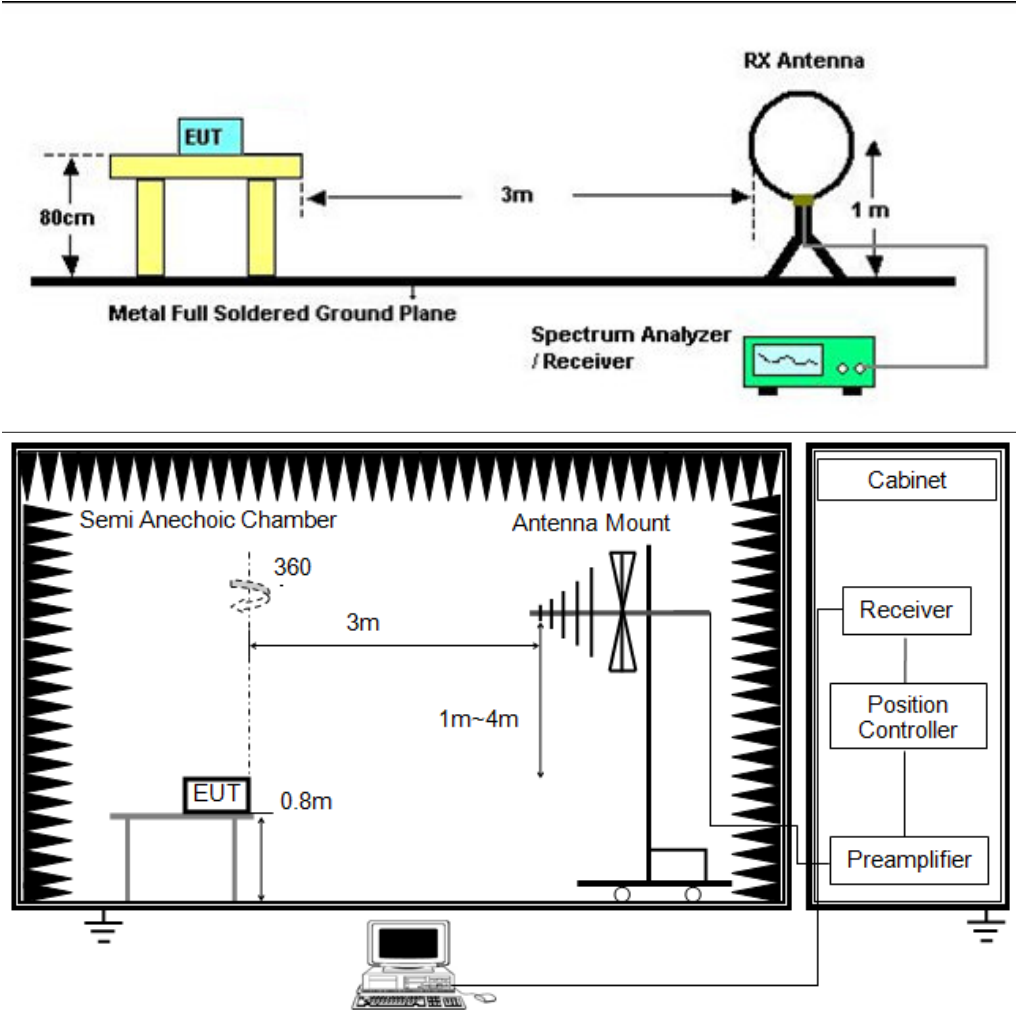
1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to 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.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



TEST ENVIRONMENT

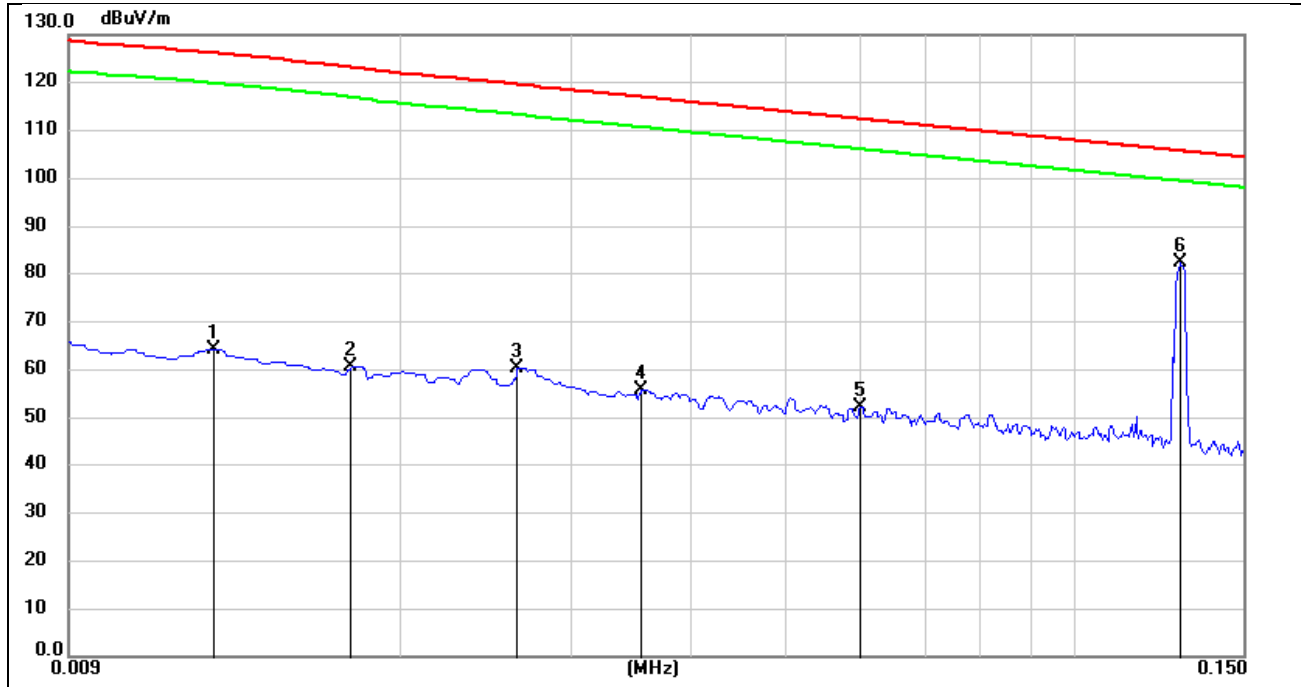
Temperature	22.5°C, 23.3°C	Relative Humidity	50%, 50%
Atmosphere Pressure	101kPa, 101kPa		

TEST RESULTS

7.1. RADIATED SPURIOUS EMISSION

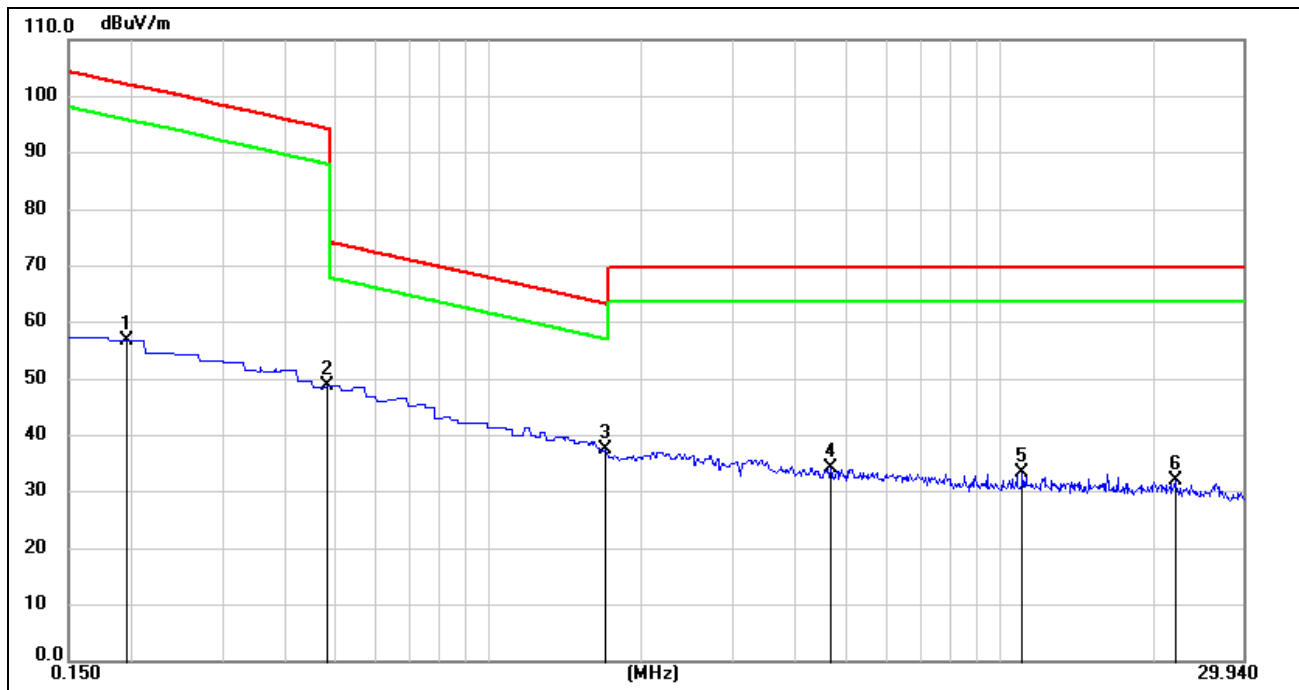
Undesirable radiated Spurious Emission below 30MHz (9KHz to 30MHz)

All modes have been tested and the worst result as bellow:



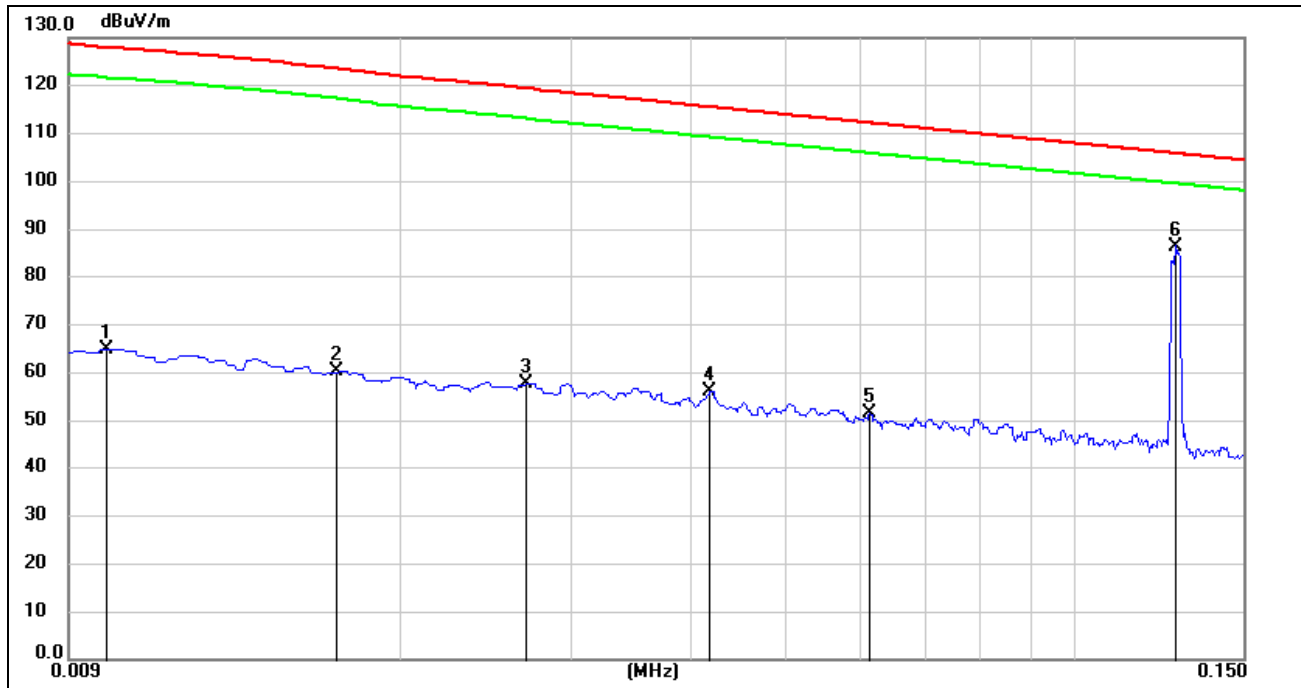
Mode: M01 Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0128	46.92	17.33	64.25	125.91	-61.66	peak	
2	0.0177	45.46	15.17	60.63	122.96	-62.33	peak	
3	0.0263	46.82	13.59	60.41	119.36	-58.95	peak	
4	0.0354	43.10	12.78	55.88	116.71	-60.83	peak	
5	0.0600	41.04	11.27	52.31	112.04	-59.73	peak	
6 *	0.1292	71.54	10.72	82.26	105.39	-23.13	peak	



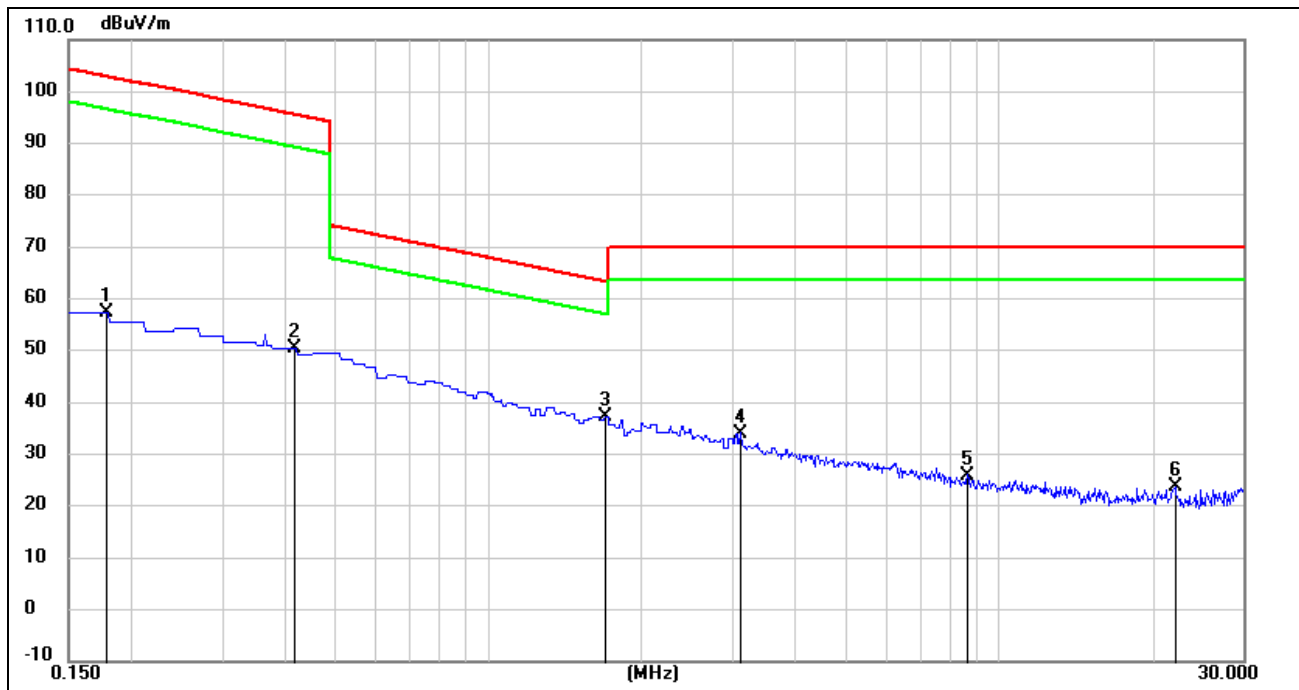
Mode: M01 Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1945	46.08	10.65	56.73	101.83	-45.10	peak	
2	0.4812	38.28	10.52	48.80	93.97	-45.17	peak	
3 *	1.6891	26.94	10.61	37.55	63.05	-25.50	peak	
4	4.6573	23.44	10.84	34.28	69.54	-35.26	peak	
5	11.0751	22.53	10.86	33.39	69.54	-36.15	peak	
6	22.0000	22.22	9.79	32.01	69.54	-37.53	peak	



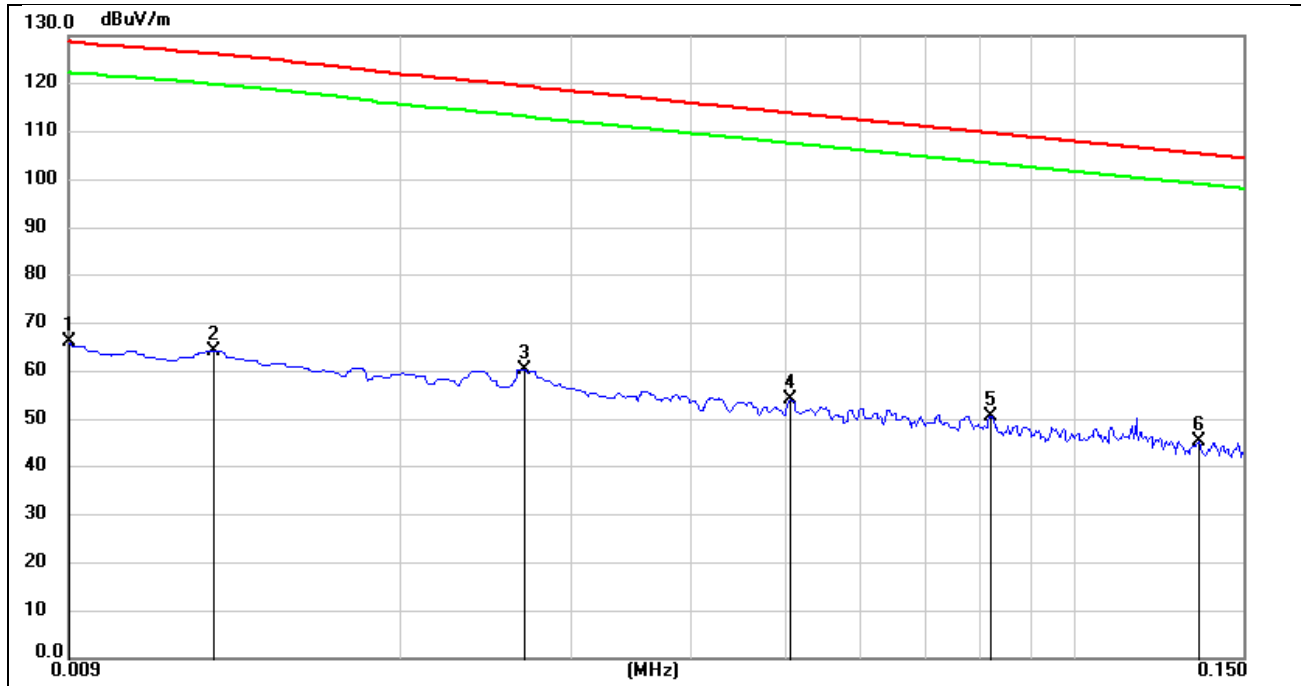
Mode: M01 Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0100	46.28	18.56	64.84	127.60	-62.76	peak	
2	0.0171	44.77	15.44	60.21	123.33	-63.12	peak	
3	0.0270	44.23	13.53	57.76	119.12	-61.36	peak	
4	0.0417	43.79	12.22	56.01	115.23	-59.22	peak	
5	0.0613	40.17	11.24	51.41	111.87	-60.46	peak	
6 *	0.1276	75.73	10.72	86.45	105.50	-19.05	peak	



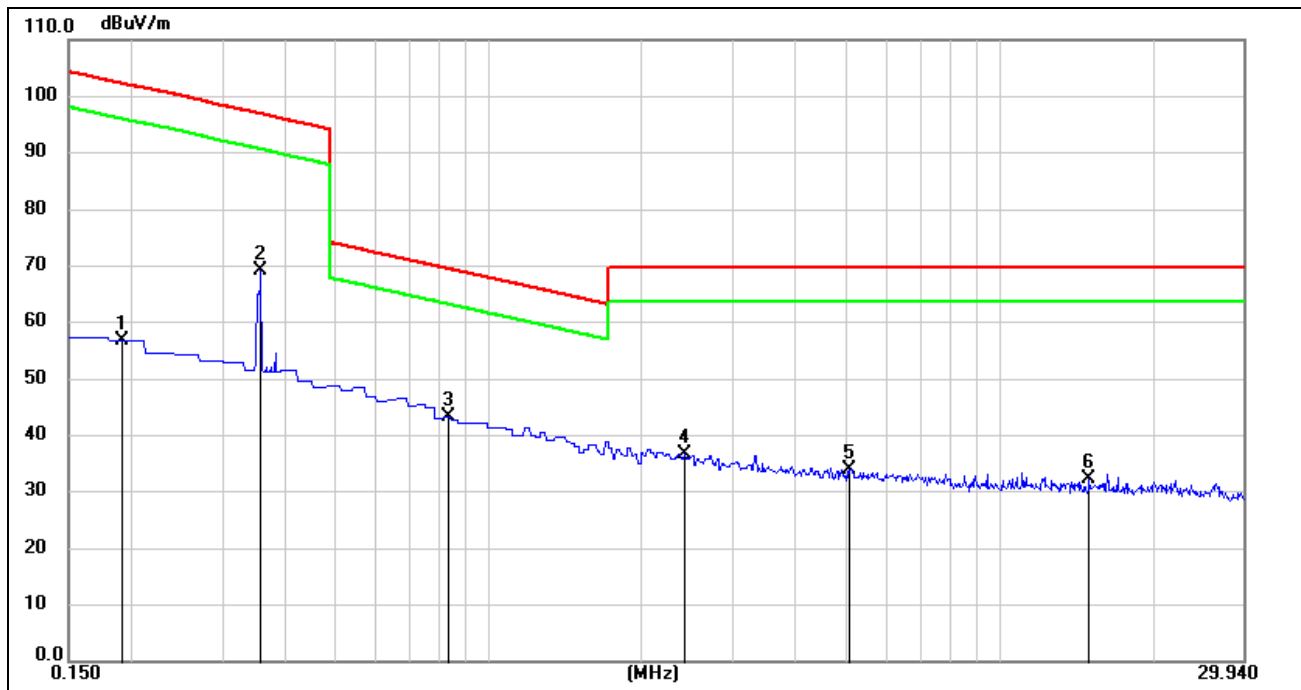
Mode: M01 Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1785	46.69	10.66	57.35	102.58	-45.23	peak	
2	0.4171	40.00	10.54	50.54	95.23	-44.69	peak	
3 *	1.6891	26.67	10.61	37.28	63.05	-25.77	peak	
4	3.1051	23.38	10.72	34.10	69.54	-35.44	peak	
5	8.6272	15.08	10.92	26.00	69.54	-43.54	peak	
6	22.0000	14.11	9.79	23.90	69.54	-45.64	peak	



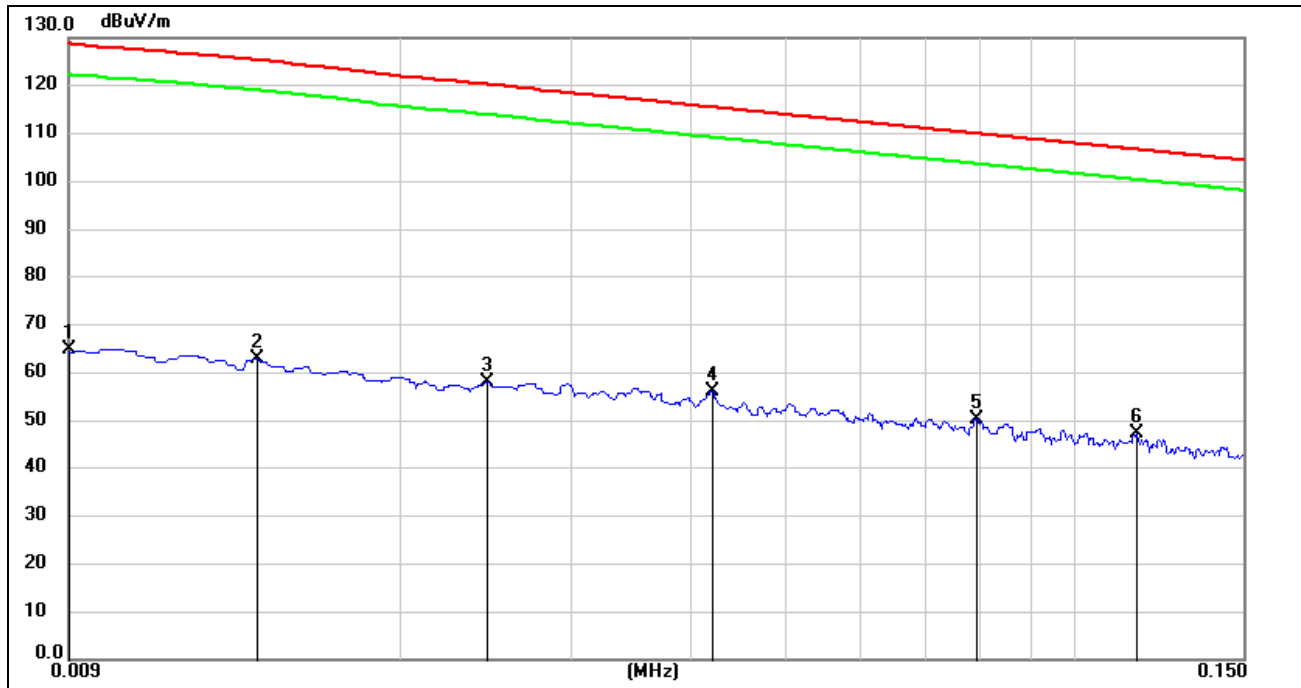
Mode: M02 Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0090	47.02	19.26	66.28	128.52	-62.24	peak	
2	0.0128	46.92	17.33	64.25	125.91	-61.66	peak	
3 *	0.0268	46.86	13.55	60.41	119.19	-58.78	peak	
4	0.0507	42.54	11.46	54.00	113.51	-59.51	peak	
5	0.0820	39.52	10.92	50.44	109.34	-58.90	peak	
6	0.1345	34.57	10.71	45.28	105.04	-59.76	peak	



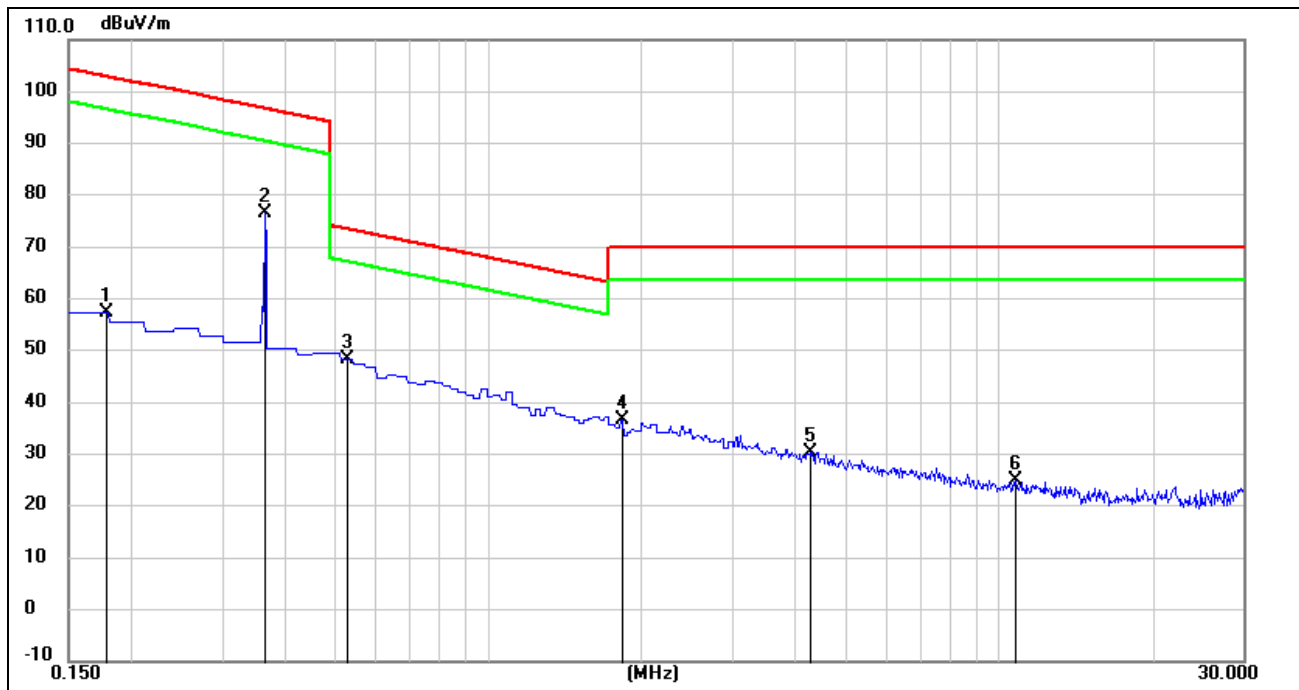
Mode: M02 Antenna: coaxial

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1912	46.08	10.65	56.73	101.98	-45.25	peak	
2	0.3577	58.61	10.56	69.17	96.62	-27.45	peak	
3 *	0.8347	32.77	10.54	43.31	69.19	-25.88	peak	
4	2.4186	25.95	10.66	36.61	69.54	-32.93	peak	
5	5.0753	23.19	10.87	34.06	69.54	-35.48	peak	
6	14.9258	21.58	10.65	32.23	69.54	-37.31	peak	



Mode: M02 Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0090	45.70	19.26	64.96	128.52	-63.56	peak	
2	0.0142	46.11	16.71	62.82	125.07	-62.25	peak	
3	0.0246	44.33	13.75	58.08	119.96	-61.88	peak	
4	0.0420	43.82	12.19	56.01	115.17	-59.16	peak	
5	0.0791	39.41	10.95	50.36	109.64	-59.28	peak	
6 *	0.1160	36.50	10.75	47.25	106.32	-59.07	peak	



Mode: M02 Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1776	46.69	10.66	57.35	102.62	-45.27	peak	
2 *	0.3634	66.01	10.55	76.56	96.48	-19.92	peak	
3	0.5264	37.90	10.51	48.41	73.22	-24.81	peak	
4	1.8191	26.15	10.62	36.77	69.54	-32.77	peak	
5	4.2690	19.49	10.81	30.30	69.54	-39.24	peak	
6	10.7170	14.01	10.89	24.90	69.54	-44.64	peak	

Note:

1.Measurement = Reading Level + Correct Factor.

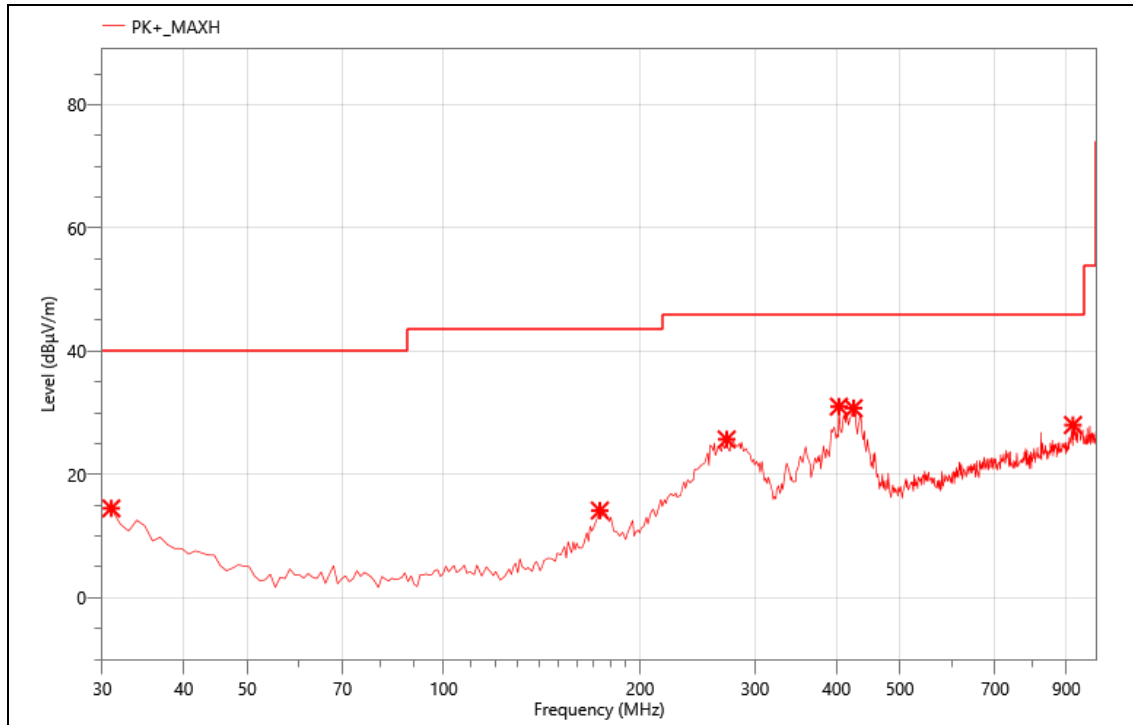
2.Margin= Measurement - Limit.

3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

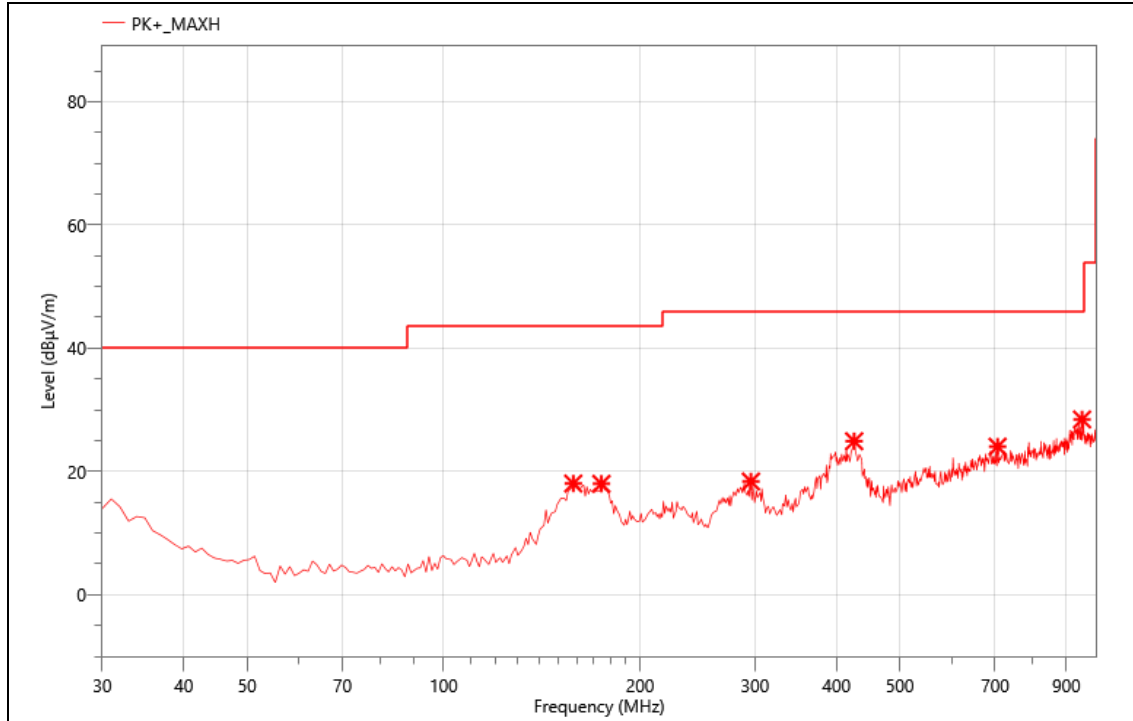
All modes have been tested and the worst result as bellow:

Mode:	M01
Power:	DC 5V
TE:	Big
Date	2025/04/16
T/A/P	23.3°C/50%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.970	29.35	-14.87	14.48	40.00	25.52	PK+	H
2	173.560	36.19	-22.05	14.14	43.50	29.36	PK+	H
3	271.530	44.21	-18.53	25.68	46.00	20.32	PK+	H
4	403.450	44.46	-13.46	31.00	46.00	15.00	PK+	H
5	424.790	44.49	-13.75	30.74	46.00	15.26	PK+	H
6	921.430	30.71	-2.7	28.01	46.00	17.99	PK+	H

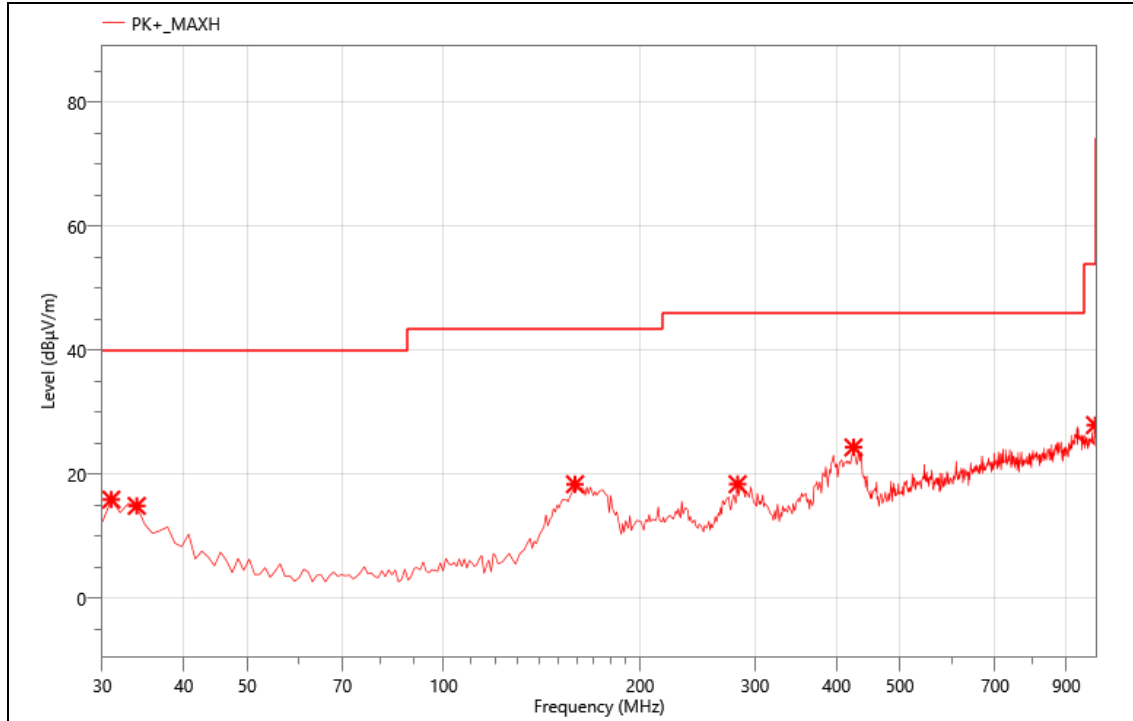
Mode:	M01
Power:	DC 5V
TE:	Big
Date	2025/04/16
T/A/P	23.3°C/50%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	158.040	39.12	-21.09	18.03	43.50	25.47	PK+	V
2	174.530	39.97	-21.99	17.98	43.50	25.52	PK+	V
3	295.780	37.32	-18.96	18.36	46.00	27.64	PK+	V
4	425.760	38.69	-13.79	24.90	46.00	21.10	PK+	V
5	706.090	30.84	-6.83	24.01	46.00	21.99	PK+	V
6	951.500	30.91	-2.48	28.43	46.00	17.57	PK+	V

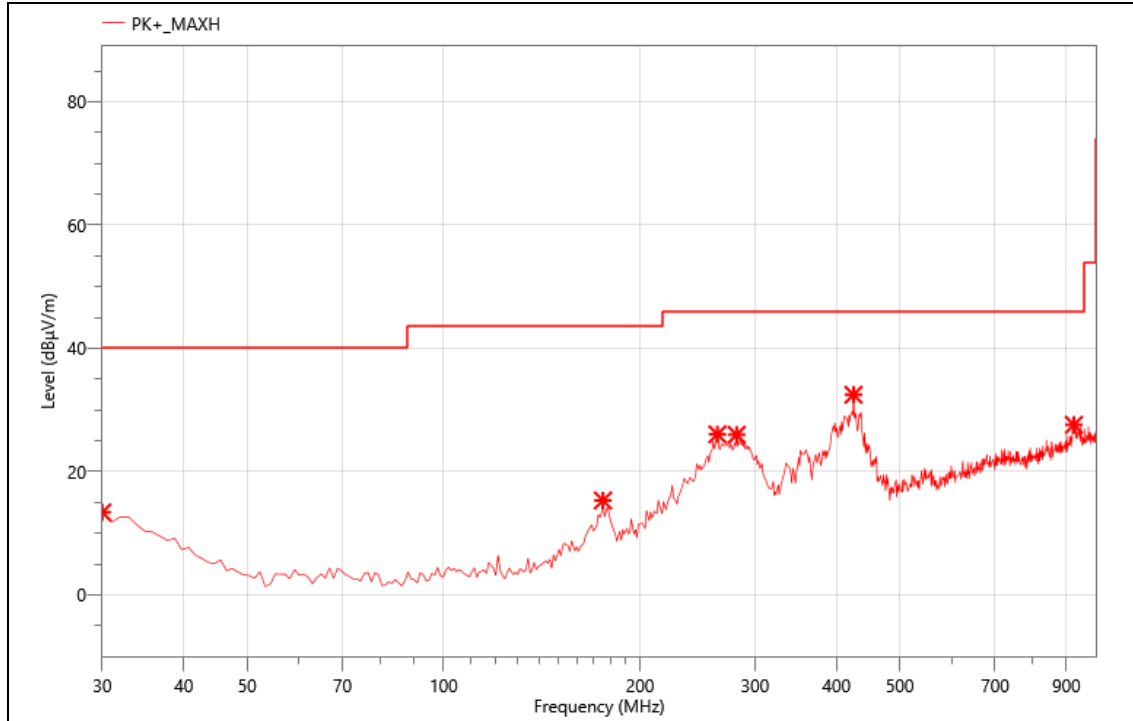
Mode:	M02
Power:	DC 5V
TE:	Big
Date	2025/04/16
T/A/P	23.3°C/50%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	30.970	30.76	-14.87	15.89	40.00	24.11	PK+	
2	33.880	31.51	-16.63	14.88	40.00	25.12	PK+	
3	159.010	39.61	-21.24	18.37	43.50	25.13	PK+	
4	282.200	37.74	-19.36	18.38	46.00	27.62	PK+	
5	424.790	38.06	-13.75	24.31	46.00	21.69	PK+	
6	996.120	30.25	-2.34	27.91	53.90	25.99	PK+	

Mode:	M02
Power:	DC 5V
TE:	Big
Date	2025/04/16
T/A/P	23.3°C/50%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.000	27.70	-14.32	13.38	40.00	26.62	PK+	H
2	175.500	37.32	-22.01	15.31	43.50	28.19	PK+	H
3	262.800	44.22	-18.19	26.03	46.00	19.97	PK+	H
4	281.230	45.27	-19.3	25.97	46.00	20.03	PK+	H
5	424.790	46.21	-13.75	32.46	46.00	13.54	PK+	H
6	924.340	30.09	-2.51	27.58	46.00	18.42	PK+	H

Note:

- 1.Measurement = Reading Level + Correct Factor.
- 2.Margin=Limit- Measurement.
3. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
4. Peak: Peak detector.
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

8. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

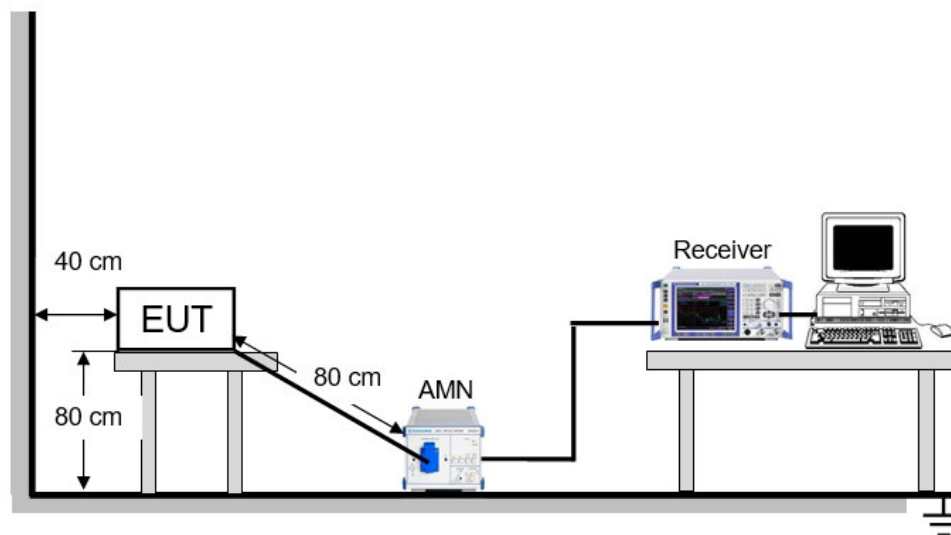
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

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.

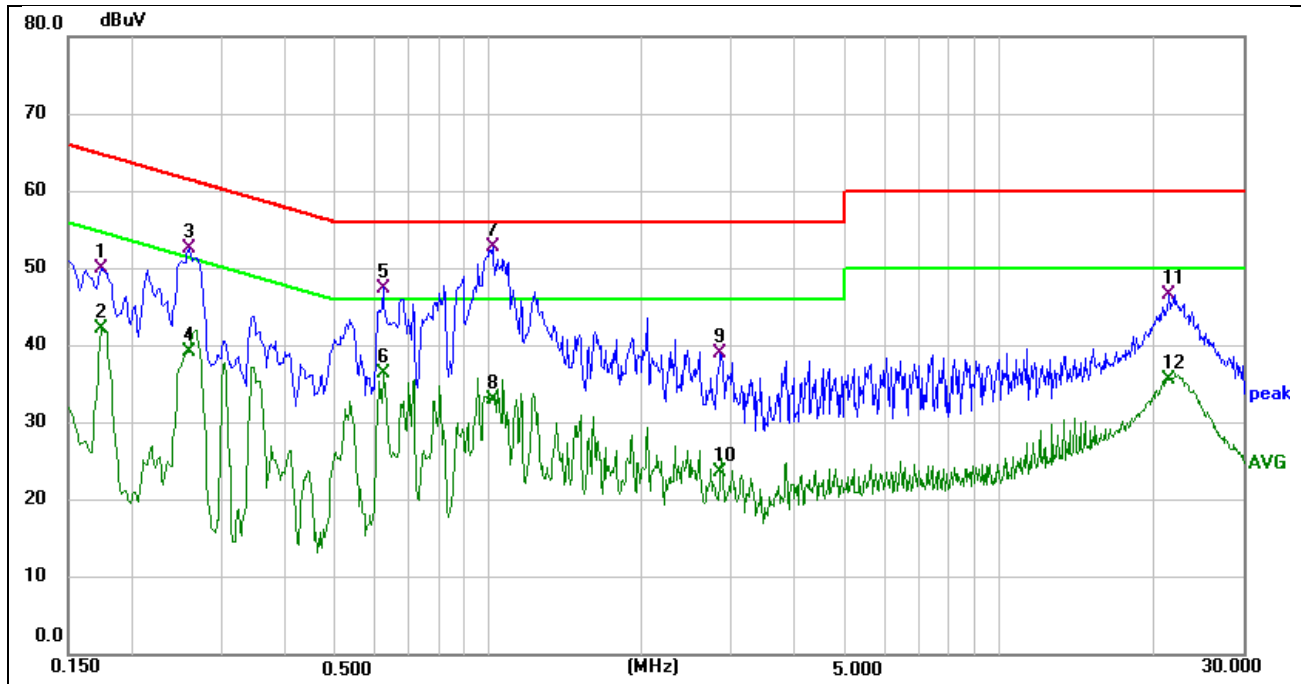
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

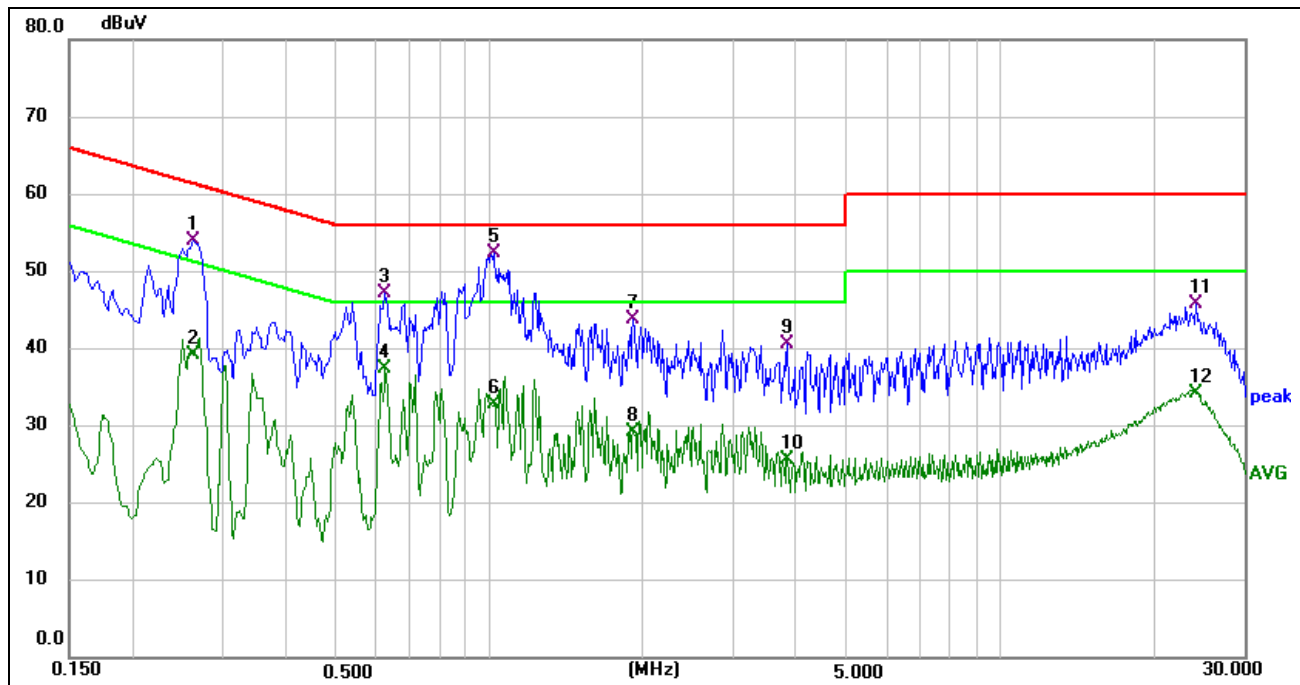
Temperature	23.4°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Phase: L1

Mode: M01

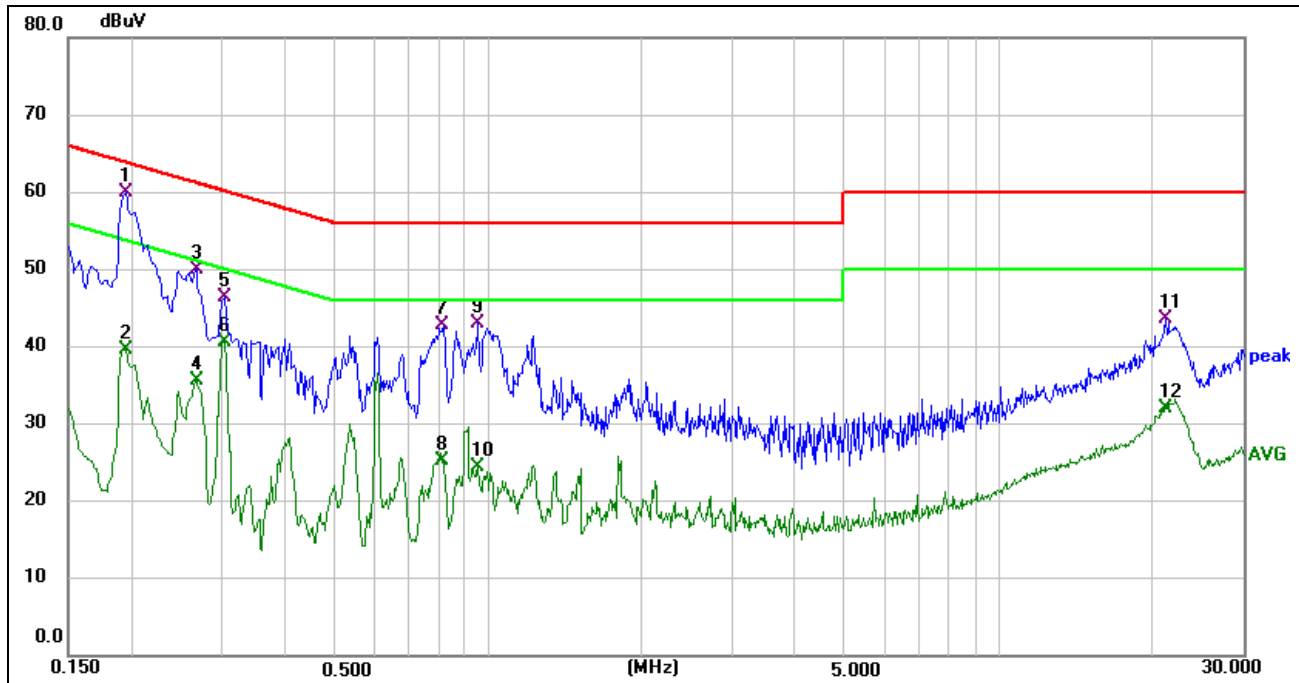
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	40.11	9.91	50.02	64.77	-14.75	QP
2	0.1740	32.27	9.91	42.18	54.77	-12.59	AVG
3	0.2580	42.53	10.08	52.61	61.50	-8.89	QP
4	0.2580	29.08	10.08	39.16	51.50	-12.34	AVG
5	0.6220	36.74	10.74	47.48	56.00	-8.52	QP
6	0.6220	25.76	10.74	36.50	46.00	-9.50	AVG
7 *	1.0180	43.18	9.51	52.69	56.00	-3.31	QP
8	1.0180	23.41	9.51	32.92	46.00	-13.08	AVG
9	2.8460	29.51	9.53	39.04	56.00	-16.96	QP
10	2.8460	14.21	9.53	23.74	46.00	-22.26	AVG
11	21.5060	36.48	10.13	46.61	60.00	-13.39	QP
12	21.5060	25.43	10.13	35.56	50.00	-14.44	AVG



Phase: N

Mode: M01

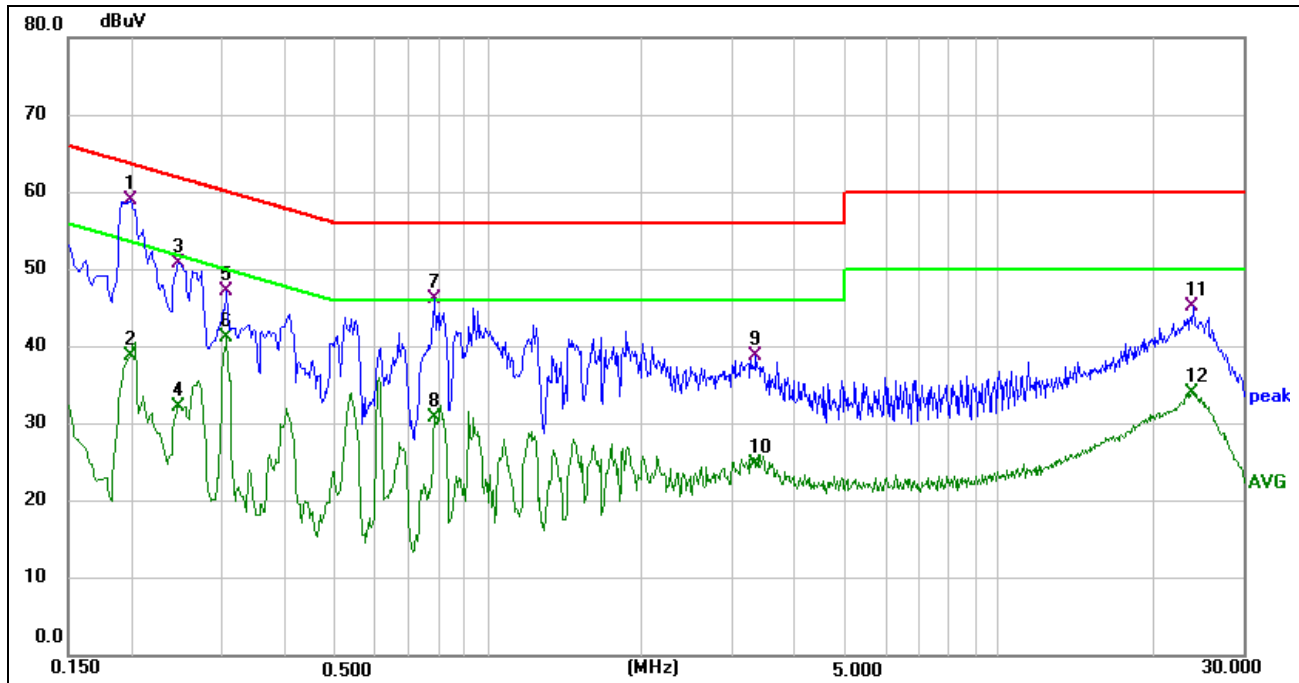
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2620	43.93	10.08	54.01	61.37	-7.36	QP
2	0.2620	29.05	10.08	39.13	51.37	-12.24	AVG
3	0.6260	36.46	10.76	47.22	56.00	-8.78	QP
4	0.6260	26.64	10.76	37.40	46.00	-8.60	AVG
5 *	1.0180	42.78	9.51	52.29	56.00	-3.71	QP
6	1.0180	23.21	9.51	32.72	46.00	-13.28	AVG
7	1.9140	34.19	9.52	43.71	56.00	-12.29	QP
8	1.9140	19.75	9.52	29.27	46.00	-16.73	AVG
9	3.8220	31.12	9.55	40.67	56.00	-15.33	QP
10	3.8220	16.17	9.55	25.72	46.00	-20.28	AVG
11	24.2700	35.58	10.20	45.78	60.00	-14.22	QP
12	24.2700	24.11	10.20	34.31	50.00	-15.69	AVG



Phase: L1

Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1 *	0.1940	49.96	9.96	59.92	63.86	-3.94	QP
2	0.1940	29.70	9.96	39.66	53.86	-14.20	AVG
3	0.2660	39.94	10.10	50.04	61.24	-11.20	QP
4	0.2660	25.57	10.10	35.67	51.24	-15.57	AVG
5	0.3020	36.15	10.16	46.31	60.19	-13.88	QP
6	0.3020	30.48	10.16	40.64	50.19	-9.55	AVG
7	0.8139	33.26	9.51	42.77	56.00	-13.23	QP
8	0.8139	15.73	9.51	25.24	46.00	-20.76	AVG
9	0.9580	33.58	9.51	43.09	56.00	-12.91	QP
10	0.9580	14.96	9.51	24.47	46.00	-21.53	AVG
11	21.2540	33.56	10.13	43.69	60.00	-16.31	QP
12	21.2540	21.89	10.13	32.02	50.00	-17.98	AVG



Phase: N

Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1 *	0.1980	48.89	9.98	58.87	63.69	-4.82	QP
2	0.1980	28.81	9.98	38.79	53.69	-14.90	AVG
3	0.2460	40.73	10.06	50.79	61.89	-11.10	QP
4	0.2460	22.25	10.06	32.31	51.89	-19.58	AVG
5	0.3060	36.98	10.17	47.15	60.08	-12.93	QP
6	0.3060	31.02	10.17	41.19	50.08	-8.89	AVG
7	0.7860	35.04	11.09	46.13	56.00	-9.87	QP
8	0.7860	19.75	11.09	30.84	46.00	-15.16	AVG
9	3.3340	29.21	9.54	38.75	56.00	-17.25	QP
10	3.3340	15.24	9.54	24.78	46.00	-21.22	AVG
11	23.9619	34.90	10.20	45.10	60.00	-14.90	QP
12	23.9619	23.88	10.20	34.08	50.00	-15.92	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: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.
5. All the modes have been tested, only the worst data was recorded in the report.

9. 20DB BANDWIDTH

LIMITS

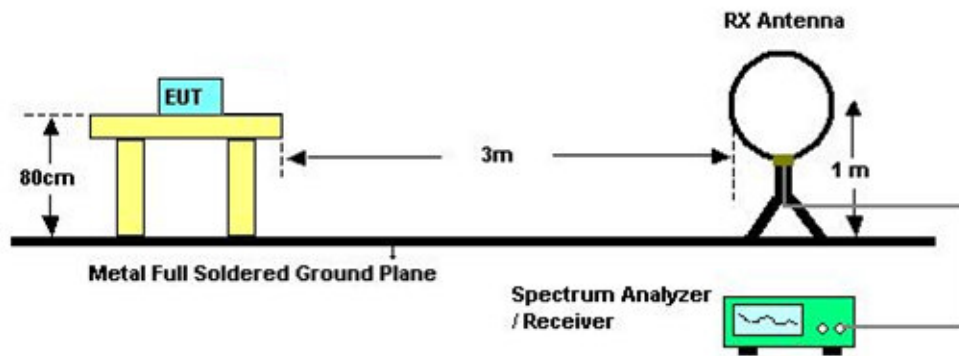
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

TEST PROCEDURE

- a.) The EUT operates at maximum output power according to the user manual.
- b.) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- c.) If the EUT is a floor standing device, it is placed on the ground.
- d.) Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- f.) The EUT is connected to DC Power Source or an adapter.
- e.) The measurement distance is 3 meter.
- f.) The EUT was set into operation.
- g.) Adjust the test instrument for the following setting.

RBW	1kHz
VBW	3*RBW
Detector	Peak
Sweep time	Auto
Trace Mode	Max hold

- h.) Allow trace to fully stabilize.

TEST SETUP**TEST ENVIRONMENT**

Temperature	24.2°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

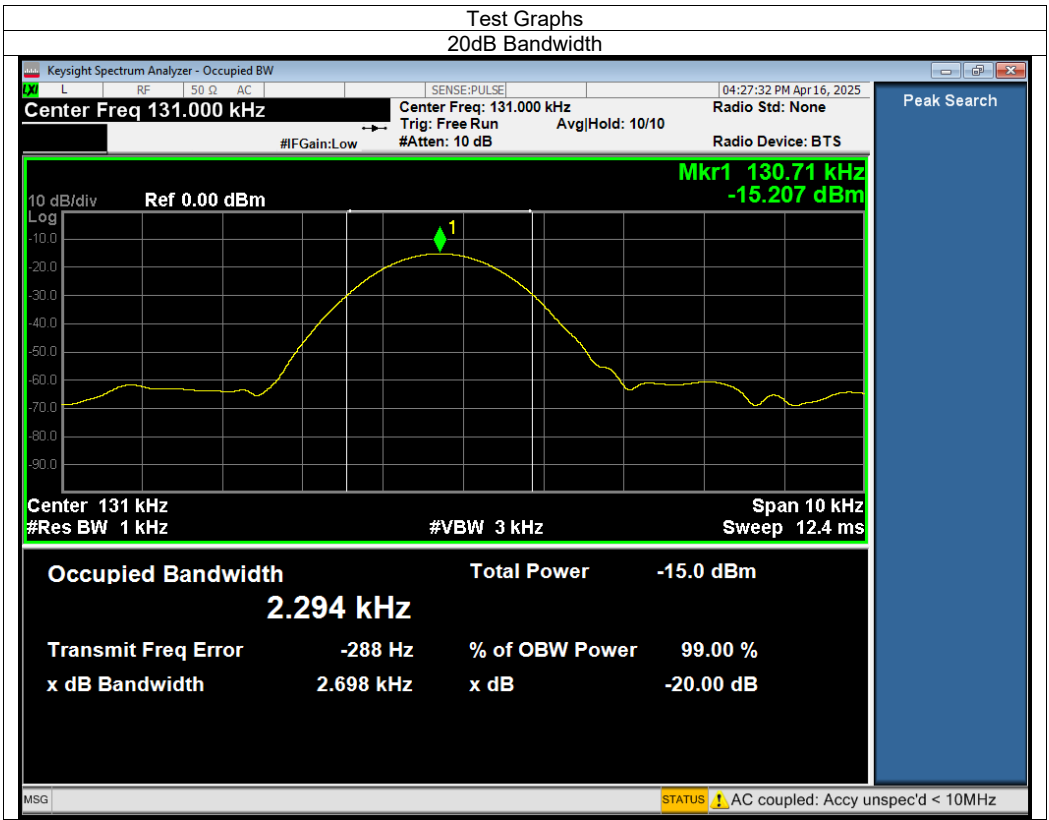
For M01

Frequency (kHz)	20dB Bandwidth (kHz)	Result
131	2.698	Pass

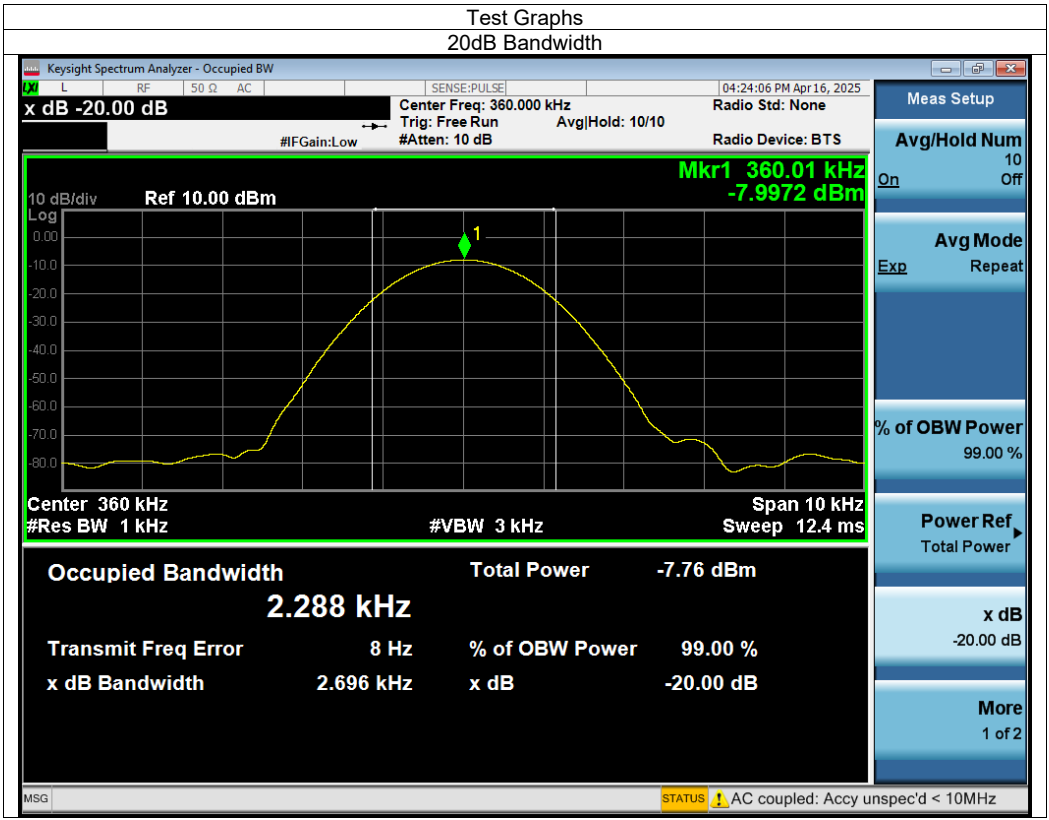
For M02

Frequency (kHz)	20dB Bandwidth (kHz)	Result
360	2.696	Pass

For M01:



For M02:



10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

DESCRIPTION

Pass

END OF REPORT