

Test Report

Report No.: MTi210924005-04E1

Date of issue: Nov. 30, 2021

Applicant: Chug, Inc.

Product: MagSafe + Wireless charger Stand

Model(s): QIC44, HKWP2692-20E

FCC ID: 2AO23-QIC44

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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2. The test results in this test report are only responsible for the samples submitted
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Test Result Certification	
Applicant:	Chug, Inc.
Address:	7157 Shady Oak Road, Eden Prairie, MN 55344, USA
Manufacturer:	HANK ELECTRONICS VIETNAM LTD
Address:	No.7, 11 Street VSIP Tu Son, 16353 Bac Ninh Province, Vietnam
Product description	
Product name:	MagSafe + Wireless charger Stand
Trademark:	Heyday
Model name:	QIC44
Serial Model:	HKWP2692-20E
Standards:	FCC 47 CFR Part 15 Subpart C
Test method:	ANSI C63.10-2013
Date of Test	
Date of test:	2021-11-18 ~ 2021-11-30
Test result:	Pass

Test Engineer :


 (Yanice Xie)

Reviewed By :


 (Leon Chen)

Approved By :


 (Tom Xue)

1 General Description

1.1 Description of the EUT

Product name:	MagSafe + Wireless charger Stand
Model name:	QIC44
Series Model:	HKWP2692-20E
Model difference:	All the models are the same circuit and RF module, except the model name
Electrical rating:	Input: Type-C 9V/3A Output: 1:Magsafe Charger 15W Output: 2:AirPods Charger 5W
Accessories:	AC Adapter Model: HKAP3891-30US Input: 100-240V~ 50/60Hz 0.8A Output: 5V=3A,9V=3A, 12V=2.5A, 15V=2A
RF specification:	
Operation frequency:	Magsafe Charger:127 kHz(5W/7.5W), 360 kHz(15W) AirPods Charger:115-205 kHz(5W)
Modulation type:	ASK
Antenna type:	Coil Antenna

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode 1	Wireless charger (5W+5W)
Mode 2	Wireless charger (7.5W+5W)
Mode 3	Wireless charger (15W+5W)
Mode 4	Stand-by

The worst test mode of conducted emissions: Mode 3

The worst test mode of radiated emissions(9kHz-30MHz@127 kHz) : Mode 2

The worst test mode of radiated emissions(9kHz-30MHz@360 kHz): Mode 3

The worst test mode of radiated emissions(30MHz-1GHz): Mode 3

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
iPhone 12	/	/	Apple
AirPods	/	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.4 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Humidity:	20 % RH ~ 75 % RH
Atmospheric pressure:	98 kPa~101 kPa

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emission (9 kHz~30 MHz)	± 2.5 dB
Radiated emission (9 kHz ~ 30 MHz)	± 4.0dB
Radiated emission (30 MHz~1 GHz)	± 4.2 dB
Radiated emission (above 1 GHz)	± 4.3 dB
Occupied bandwidth	± 3 %
Temperature	±1 degree
Humidity	± 5 %

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

2 Summary of Test Result

No.	FCC reference	Description of test	Result
Emission			
1	FCC Part 15.203	Antenna requirement	Pass
2	FCC Part 15.207	AC power line Conducted emissions	Pass
3	FCC Part 15.209	Radiated emissions	Pass
4	FCC Part 15.215	Occupied bandwidth	Pass

Note: N/A means not applicable.

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E043	EMI test receiver	R&S	ESCI7	101166	2021/06/02	2022/06/01
MTI-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2023/05/29
MTI-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2023/05/29
MTi-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2021/05/30	2023/05/29
MTI-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2021/06/02	2022/06/01
MTI-E048	Pre-amplifier	Agilent	8449B	3008A01120	2021/06/02	2022/06/01
MTi-E005	EMI test receiver	R&S	ESPI7	100314	2021/06/02	2022/06/01
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2023/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2021/04/16	2022/04/15
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2021/05/06	2022/05/05
MTi-E122	MXA signal analyzer	Agilent	N9020A	MY5444085 9	2021/05/06	2022/05/05
MTi-E001	Artificial Mains Network	R&S	ESH2-Z5	100263	2021/06/02	2022/06/01
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2021/06/02	2022/06/01
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127# 841	2021/06/02	2022/06/01
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2021/06/02	2022/06/01
MTi-E026	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	NTFM 8158 #199	2021/06/02	2022/06/01
MTi-E021	EMI Test Receiver	R&S	ESCS30	100210	2021/06/02	2022/06/01
MTi-E024	Artificial power network	Schwarzbeck	NSLK8127	01001	2021/06/02	2022/06/01

5 Test Results

5.1 Standard requirement

15.203 requirement

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2 Description of the EUT antenna

The antenna of EUT is coil antenna, which is integrated on the main PCB of the EUT and no consideration of replacement.

5.3 AC power line Conducted emissions

5.3.1 Limits

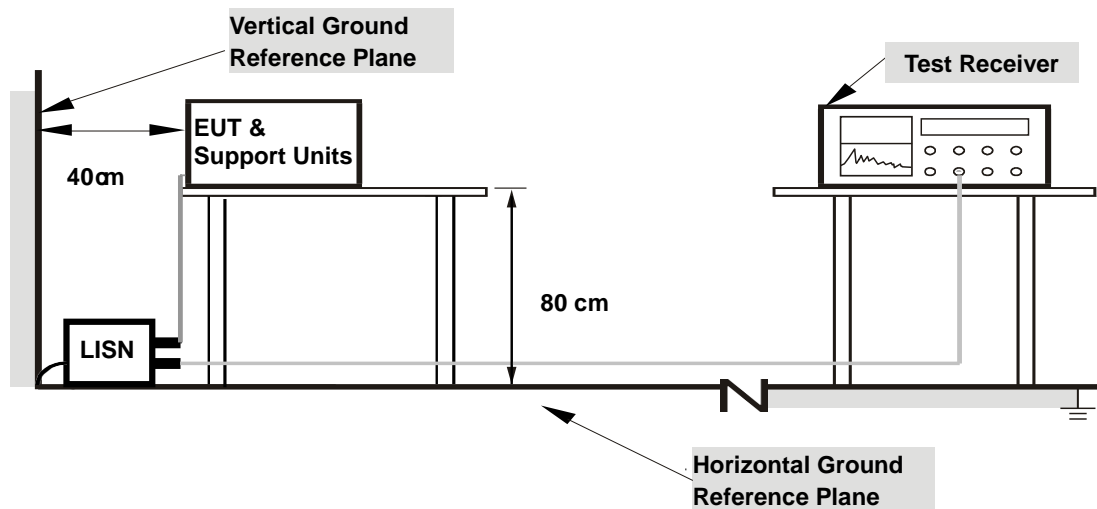
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dB μ V	Limit-Average dB μ V
0.15 -0.5	Average / 9 kHz	66 to 56	56 to 46
0.5 -5		56	46
5 -30		60	50

Note 1: the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

5.3.2 Test Procedures

- The test setup is refer to the standard ANSI C63.10-2013.
- The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).
- Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.
- The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.
- The test data of the worst-case condition(s) was recorded.

5.3.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

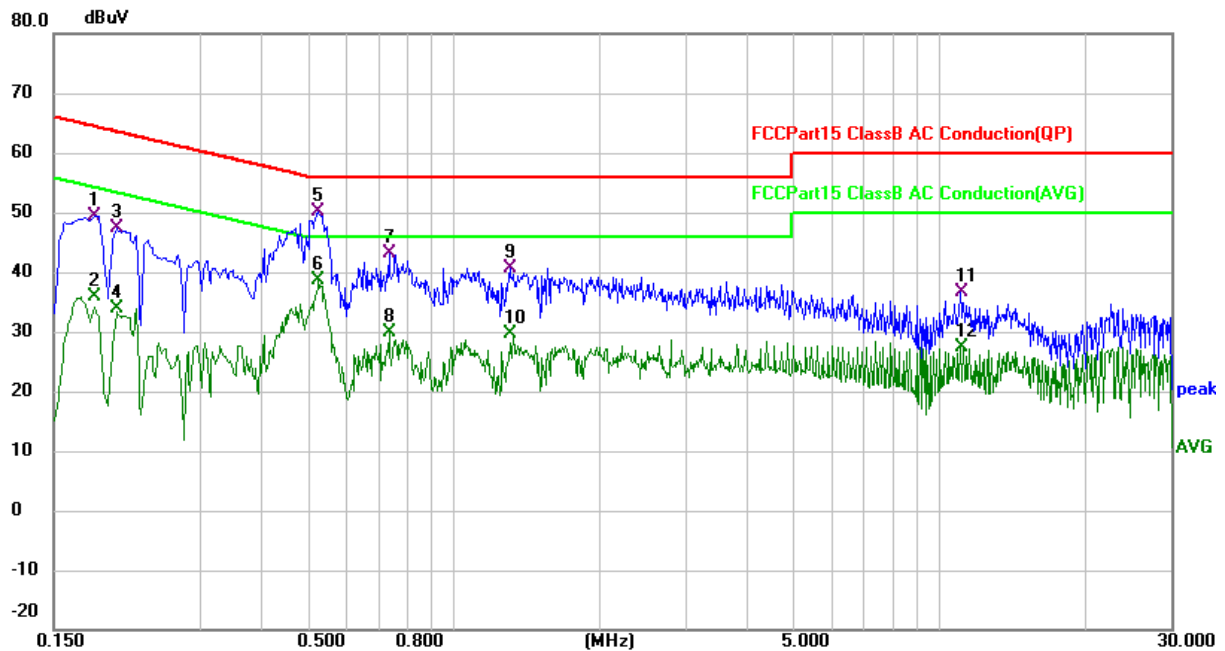
5.3.4 Test Result

Calculation formula:

Measurement (dB μ V) = Reading Level (dB μ V) + Correct Factor (dB)

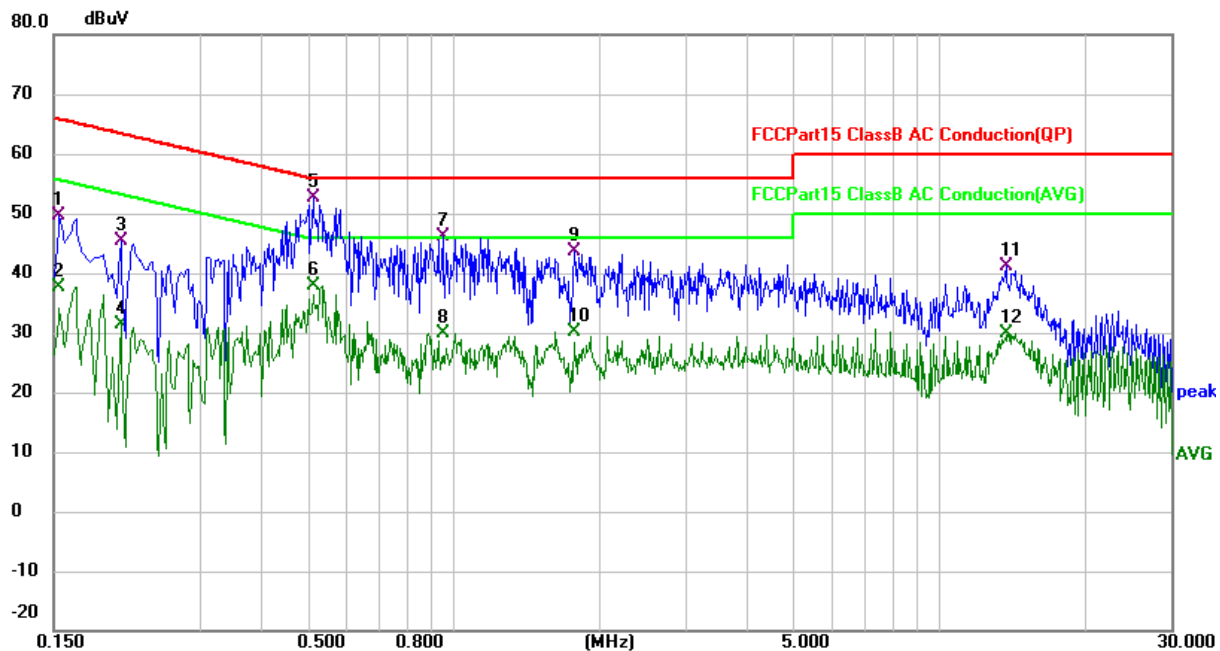
Over (dB) = Measurement (dB μ V) – Limit (dB μ V)

Test mode:	Mode 3	Phase:	L
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



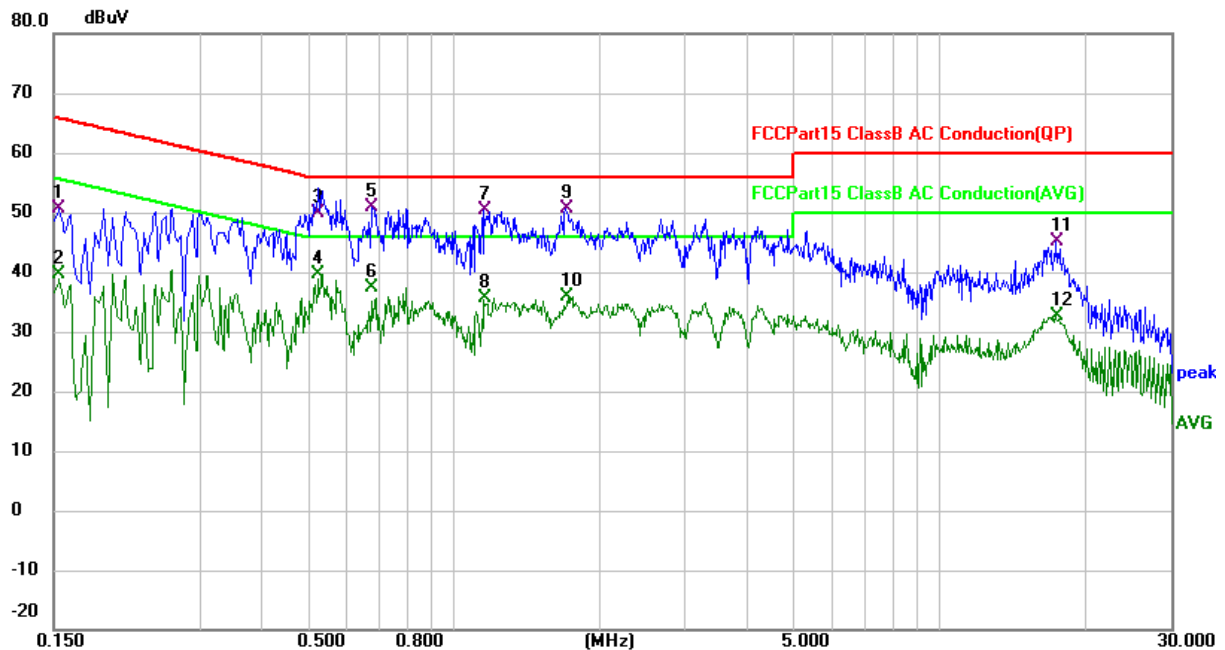
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1819	38.50	10.97	49.47	64.40	-14.93	QP
2		0.1819	24.84	10.97	35.81	54.40	-18.59	AVG
3		0.2020	36.31	10.97	47.28	63.53	-16.25	QP
4		0.2020	22.82	10.97	33.79	53.53	-19.74	AVG
5	*	0.5260	39.19	11.06	50.25	56.00	-5.75	QP
6		0.5260	27.57	11.06	38.63	46.00	-7.37	AVG
7		0.7380	32.01	11.11	43.12	56.00	-12.88	QP
8		0.7380	18.72	11.11	29.83	46.00	-16.17	AVG
9		1.3060	26.75	13.95	40.70	56.00	-15.30	QP
10		1.3060	15.57	13.95	29.52	46.00	-16.48	AVG
11		11.0740	25.03	11.60	36.63	60.00	-23.37	QP
12		11.0740	15.88	11.60	27.48	50.00	-22.52	AVG

Test mode:	Mode 3	Phase:	N
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



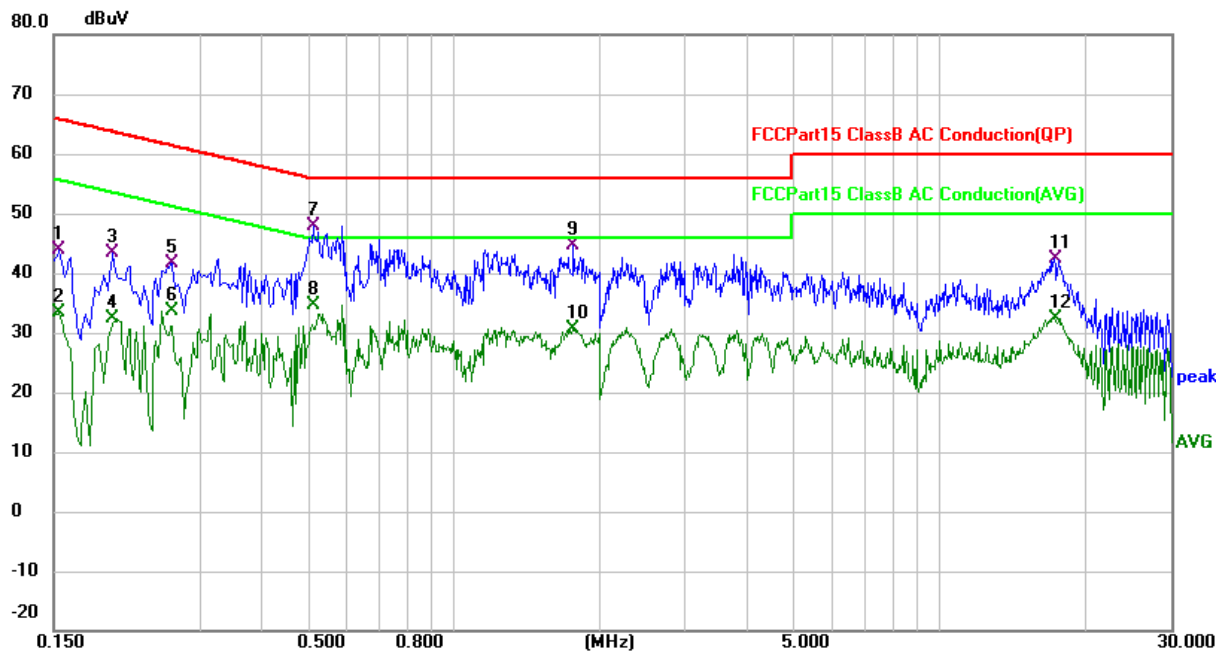
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	38.72	10.98	49.70	65.79	-16.09	QP
2		0.1539	26.65	10.98	37.63	55.79	-18.16	AVG
3		0.2060	34.52	10.91	45.43	63.37	-17.94	QP
4		0.2060	20.36	10.91	31.27	53.37	-22.10	AVG
5	*	0.5140	41.85	10.90	52.75	56.00	-3.25	QP
6		0.5140	26.86	10.90	37.76	46.00	-8.24	AVG
7		0.9500	33.11	13.07	46.18	56.00	-9.82	QP
8		0.9500	16.83	13.07	29.90	46.00	-16.10	AVG
9		1.7780	28.61	14.91	43.52	56.00	-12.48	QP
10		1.7780	15.10	14.91	30.01	46.00	-15.99	AVG
11		13.7300	29.45	11.67	41.12	60.00	-18.88	QP
12		13.7300	18.09	11.67	29.76	50.00	-20.24	AVG

Test mode:	Mode 3	Phase:	L
Power supply:	Power by AC/DC adapter (AC 240V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1539	39.60	10.99	50.59	65.79	-15.20	QP
2		0.1539	28.68	10.99	39.67	55.79	-16.12	AVG
3		0.5260	38.84	11.06	49.90	56.00	-6.10	QP
4		0.5260	28.45	11.06	39.51	46.00	-6.49	AVG
5	*	0.6820	39.84	11.08	50.92	56.00	-5.08	QP
6		0.6820	26.29	11.08	37.37	46.00	-8.63	AVG
7		1.1539	36.67	13.59	50.26	56.00	-5.74	QP
8		1.1539	22.12	13.59	35.71	46.00	-10.29	AVG
9		1.7020	35.78	14.79	50.57	56.00	-5.43	QP
10		1.7020	21.05	14.79	35.84	46.00	-10.16	AVG
11		17.4619	33.28	11.78	45.06	60.00	-14.94	QP
12		17.4619	20.94	11.78	32.72	50.00	-17.28	AVG

Test mode:	Mode 3	Phase:	N
Power supply:	Power by AC/DC adapter (AC 240V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	32.80	10.98	43.78	65.79	-22.01	QP
2		0.1539	22.34	10.98	33.32	55.79	-22.47	AVG
3		0.1980	32.46	10.91	43.37	63.69	-20.32	QP
4		0.1980	21.41	10.91	32.32	53.69	-21.37	AVG
5		0.2620	30.73	10.91	41.64	61.37	-19.73	QP
6		0.2620	22.68	10.91	33.59	51.37	-17.78	AVG
7	*	0.5140	37.04	10.90	47.94	56.00	-8.06	QP
8		0.5140	23.65	10.90	34.55	46.00	-11.45	AVG
9		1.7700	29.81	14.89	44.70	56.00	-11.30	QP
10		1.7700	15.83	14.89	30.72	46.00	-15.28	AVG
11		17.2780	30.51	11.77	42.28	60.00	-17.72	QP
12		17.2780	20.65	11.77	32.42	50.00	-17.58	AVG

5.4 Radiated emissions

5.4.1 Limits

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
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note 1: the tighter limit applies at the band edges.

Note 2: the emission limits shown in 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 emission limits in these three bands are based on measurements employing an average detector

5.4.2 Test setup

According to ANSI C63.10, the tests shall be performed in the frequency range shown in the following table:

Frequency range of measurements for unlicensed wireless device

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Frequency range of measurements for unlicensed wireless device with digital device

Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
Above 1000 MHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Test instrument setup

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / 200 kHz
150 kHz ~ 30 MHz	Quasi Peak / 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / 120 kHz

5.4.3 Test Procedures

The EUT is placed on a non-conducting table 80cm above the ground plane for measurement below 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10-2013.

For measurement below 1 GHz, the resolution bandwidth is set as item 5.4.2.

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 4m meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and horizontal positions.

Special requirements for 9 KHz to 30 MHz:

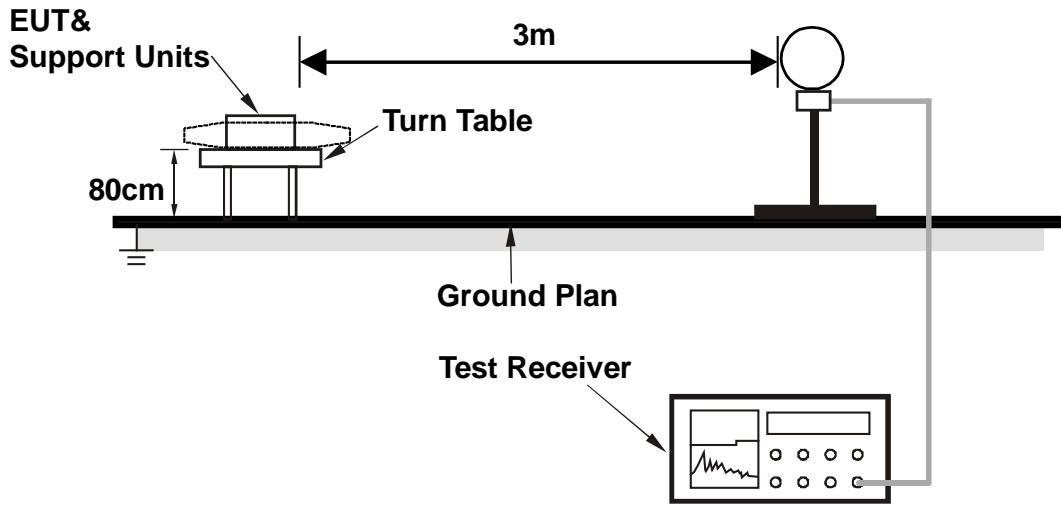
The lowest height of the magnetic antenna shall be 1 m above the ground

When the EUT contains a loop antenna that can only be placed in a vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, and then orthogonal to the axis. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

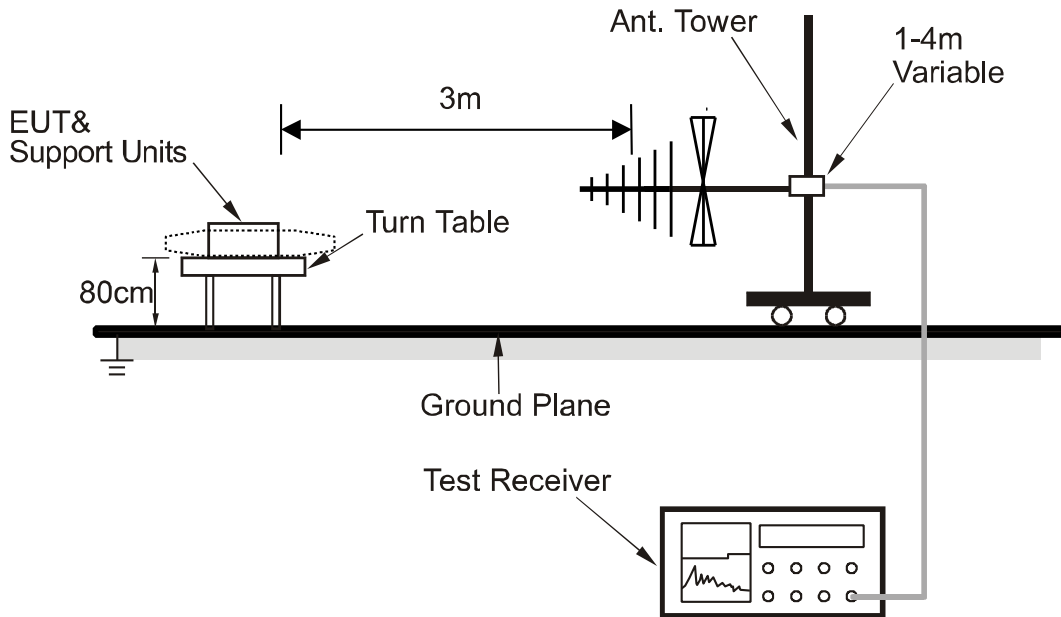
When the EUT contains a loop antenna that can be placed in a horizontal or vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, orthogonal to the axis, and then with the measurement antenna horizontal. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

5.4.4 Test Setup

Blew 30 MHz:



Blew 1 GHz:



For the actual test configuration, please refer to the related item – Photographs of the test setup.

5.4.5 Test result

Calculation formula:

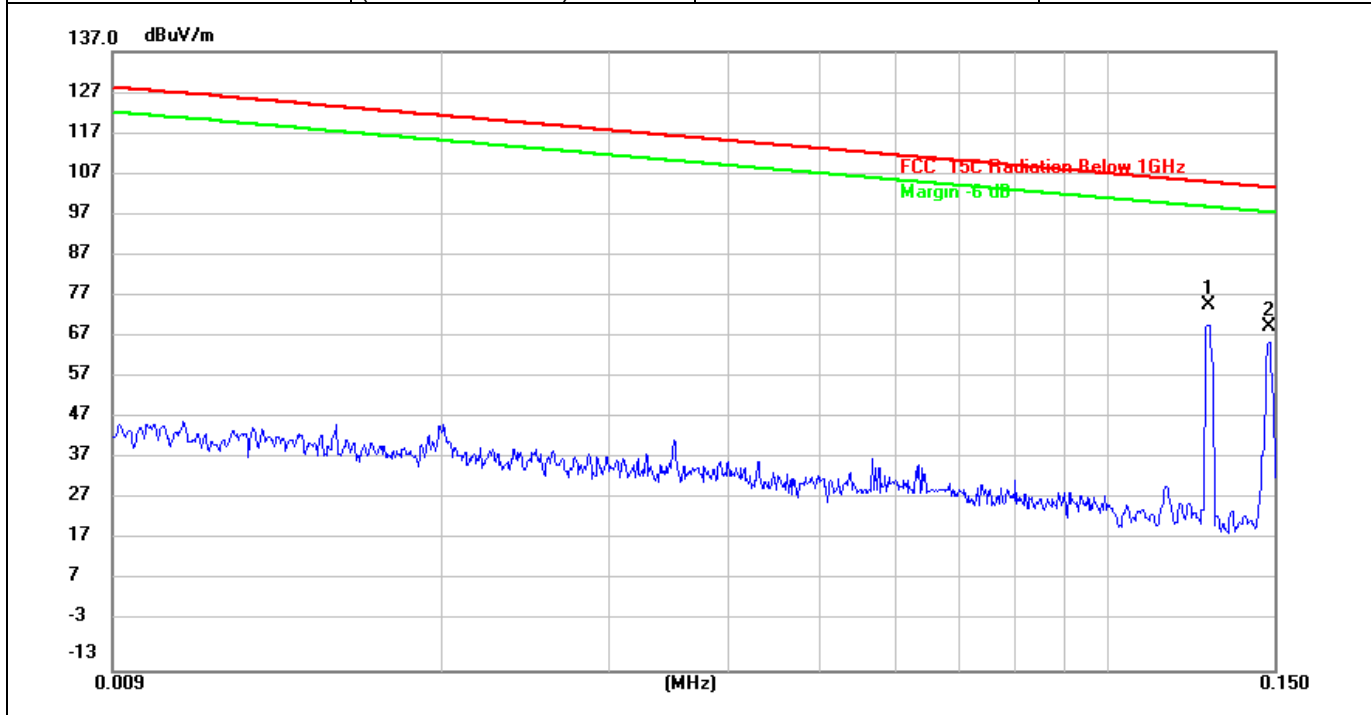
Measurement (dB μ V/m) = Reading Level (dB μ V) + Correct Factor (dB/m)

Over (dB) = Measurement (dB μ V/m) – Limit (dB μ V/m)

Note: For 9 kHz - 30 MHz testing, all the required orthogonal orientations of the measurement loop antenna were performed for pre-scan, the maximum radiated transmissions (Site axis) were recorded.

**Mobile phone-7.5W@127kHz+5W:
 Frequency 9 kHz ~ 150 kHz**

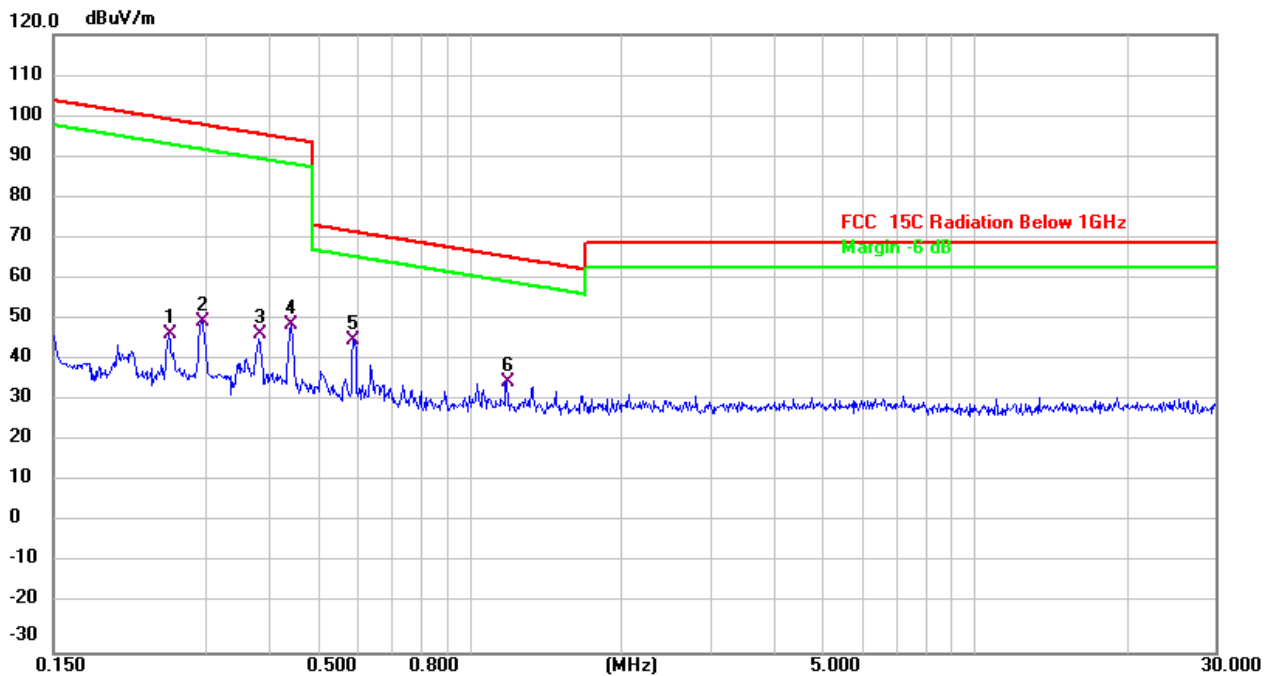
Test mode:	Mode 2	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	0.1276	55.39	20.41	75.80	105.42	-29.62	peak
2	0.1479	49.96	20.49	70.45	104.15	-33.70	peak

Frequency 150 kHz ~ 30 MHz

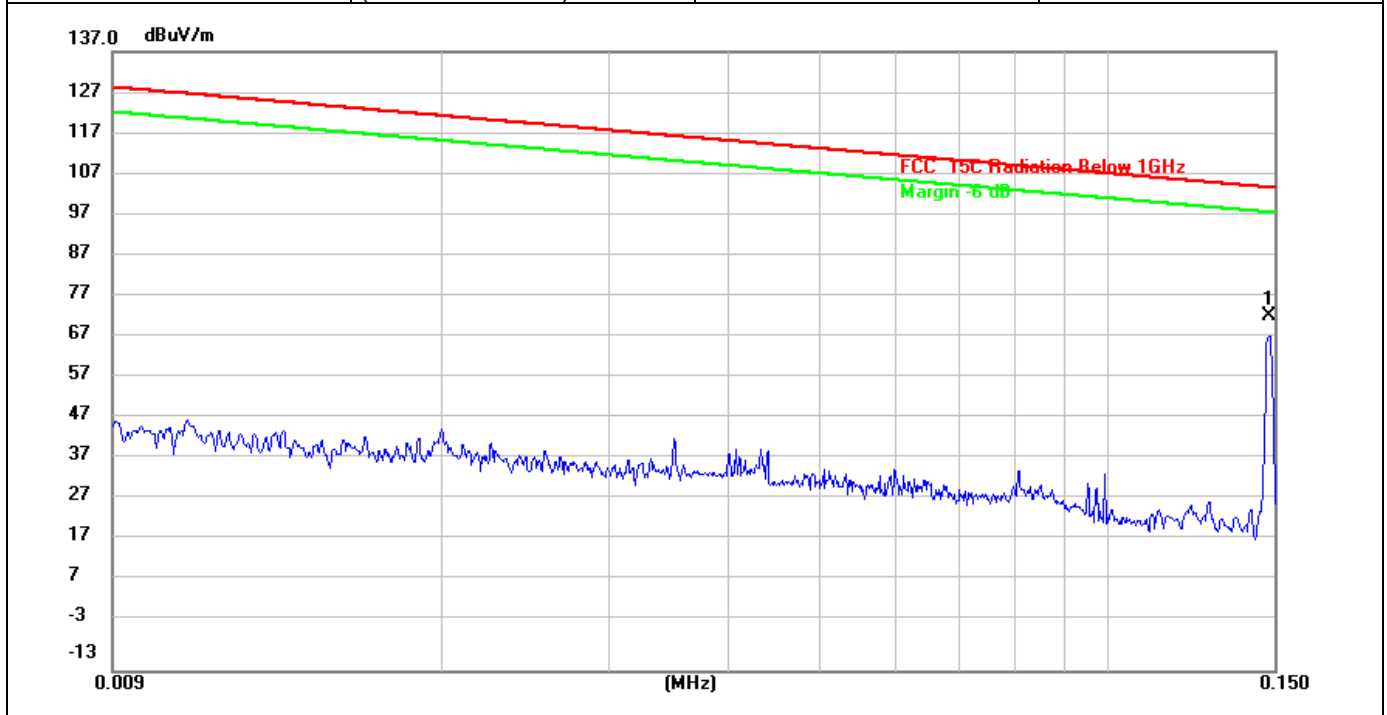
Test mode:	Mode 2	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2535	26.87	20.53	47.40	99.49	-52.09	QP
2	0.2953	29.98	20.54	50.52	98.17	-47.65	QP
3	0.3832	26.80	20.57	47.37	95.92	-48.55	QP
4	0.4420	29.05	20.58	49.63	94.69	-45.06	QP
5 *	0.5885	25.38	20.64	46.02	72.21	-26.19	QP
6	1.1836	15.00	20.81	35.81	66.16	-30.35	QP

**Mobile phone-15W@360kHz+5W:
 Frequency 9 kHz ~ 150 kHz**

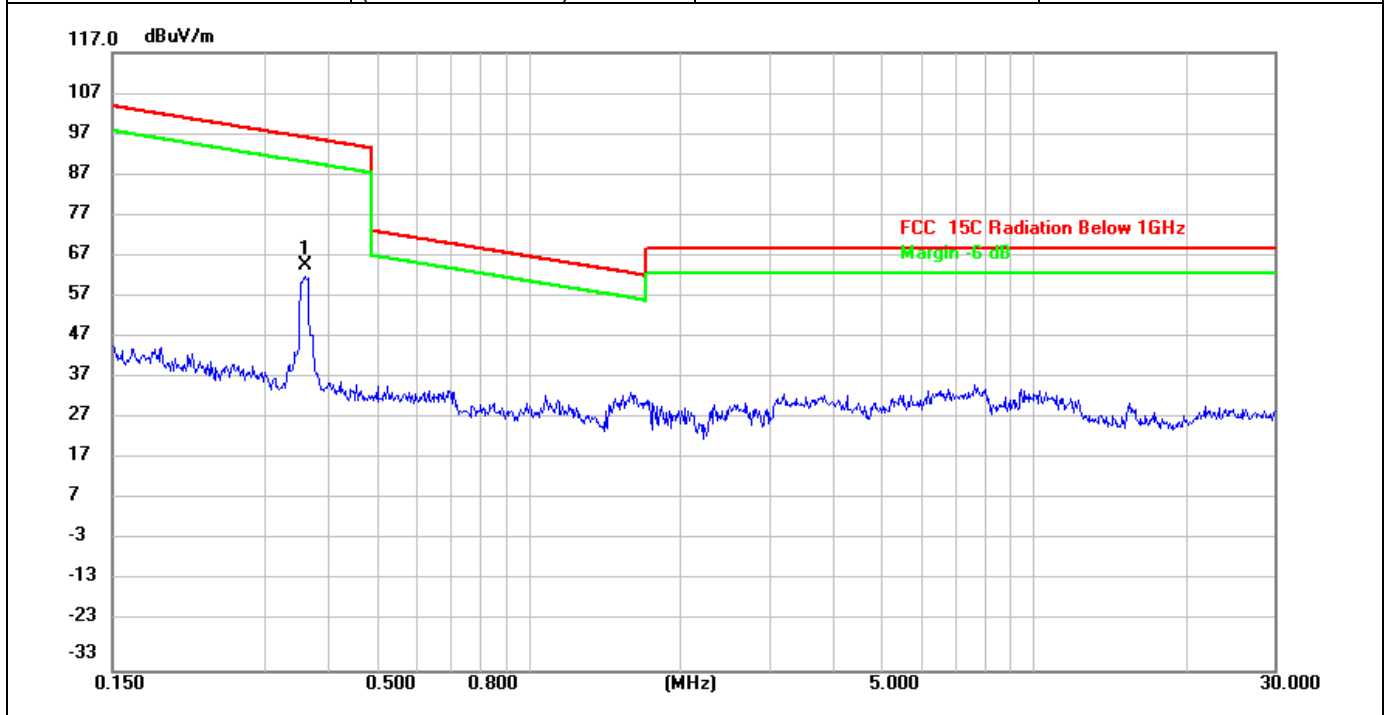
Test mode:	Mode 3	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	0.1479	52.62	20.49	73.11	104.15	-31.04	peak

Frequency 150 kHz ~ 30 MHz

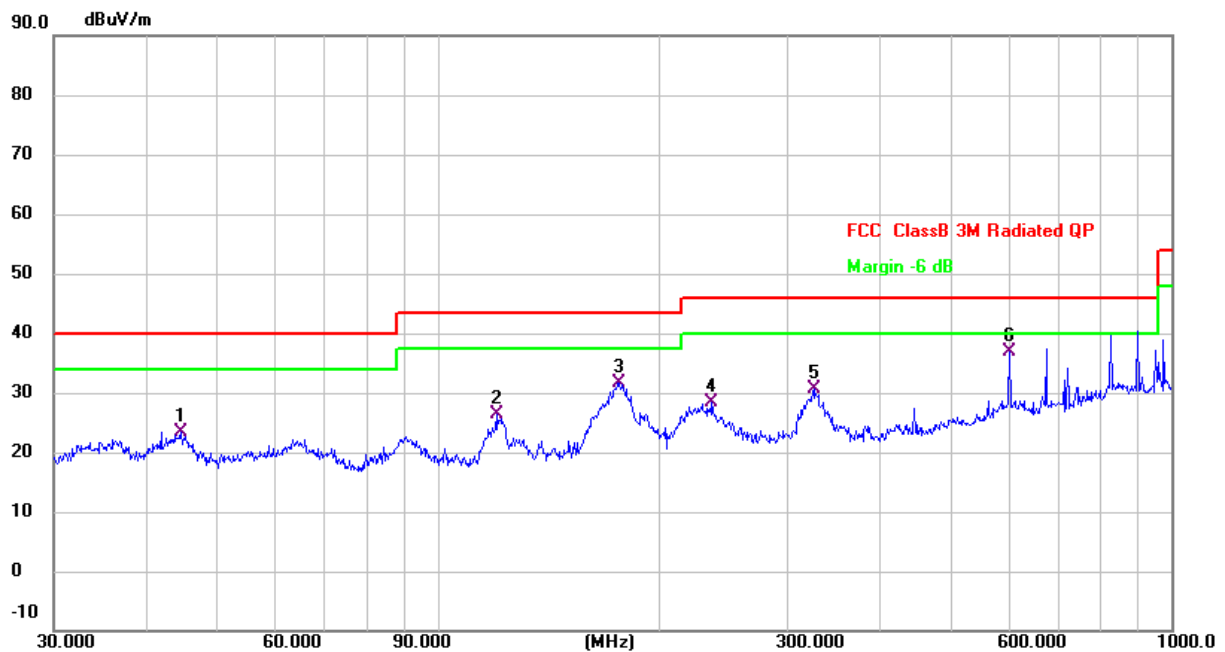
Test mode:	Mode 3	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	0.3596	44.84	20.56	65.40	96.47	-31.07	peak

Frequency 30 MHz ~ 1 GHz

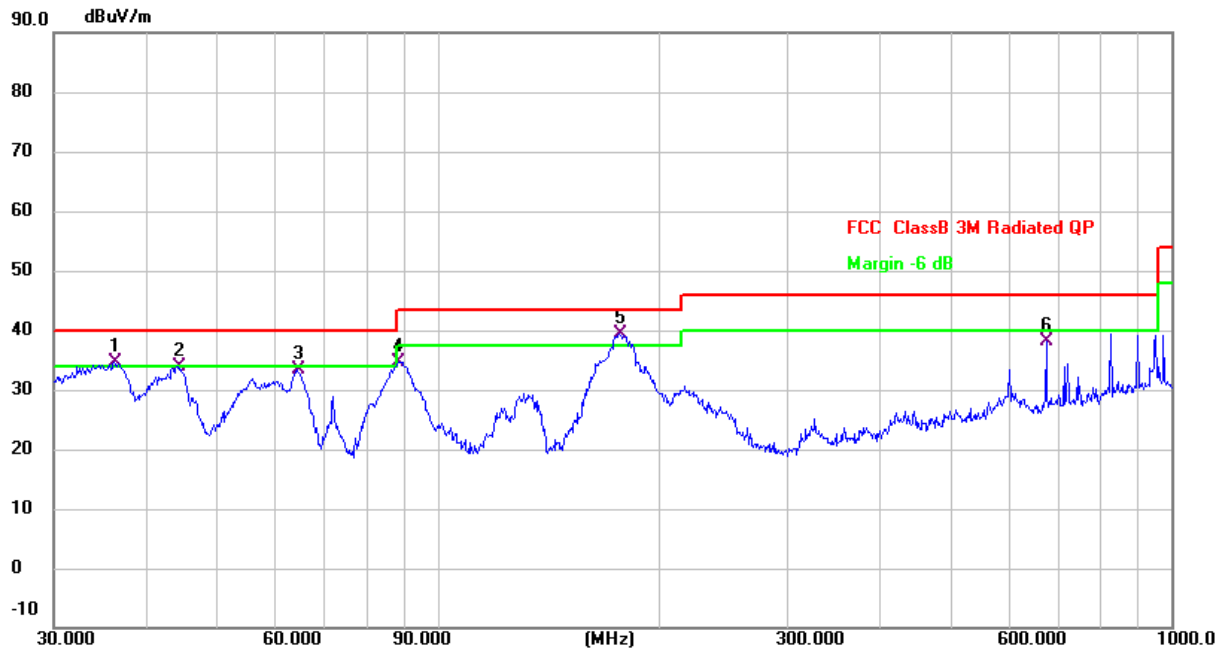
Test mode:	Mode 3	Polarization:	Horizontal
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		44.7433	30.88	-7.42	23.46	40.00	-16.54	QP
2		120.2766	36.61	-10.25	26.36	43.50	-17.14	QP
3		176.2686	40.79	-9.14	31.65	43.50	-11.85	QP
4		236.6447	34.74	-6.46	28.28	46.00	-17.72	QP
5		325.5958	35.19	-4.51	30.68	46.00	-15.32	QP
6	*	601.4265	36.69	0.14	36.83	46.00	-9.17	QP

Frequency 30 MHz ~ 1 GHz

Test mode:	Mode 3	Polarization:	Vertical
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	!	36.2541	42.77	-8.13	34.64	40.00	-5.36	QP
2		44.2752	41.31	-7.50	33.81	40.00	-6.19	QP
3		64.4331	43.12	-9.72	33.40	40.00	-6.60	QP
4		88.6524	43.82	-9.09	34.73	43.50	-8.77	QP
5	*	176.8878	48.50	-9.10	39.40	43.50	-4.10	QP
6		675.2080	38.42	-0.28	38.14	46.00	-7.86	QP

5.5 Occupied bandwidth test

5.5.1 Test Procedures

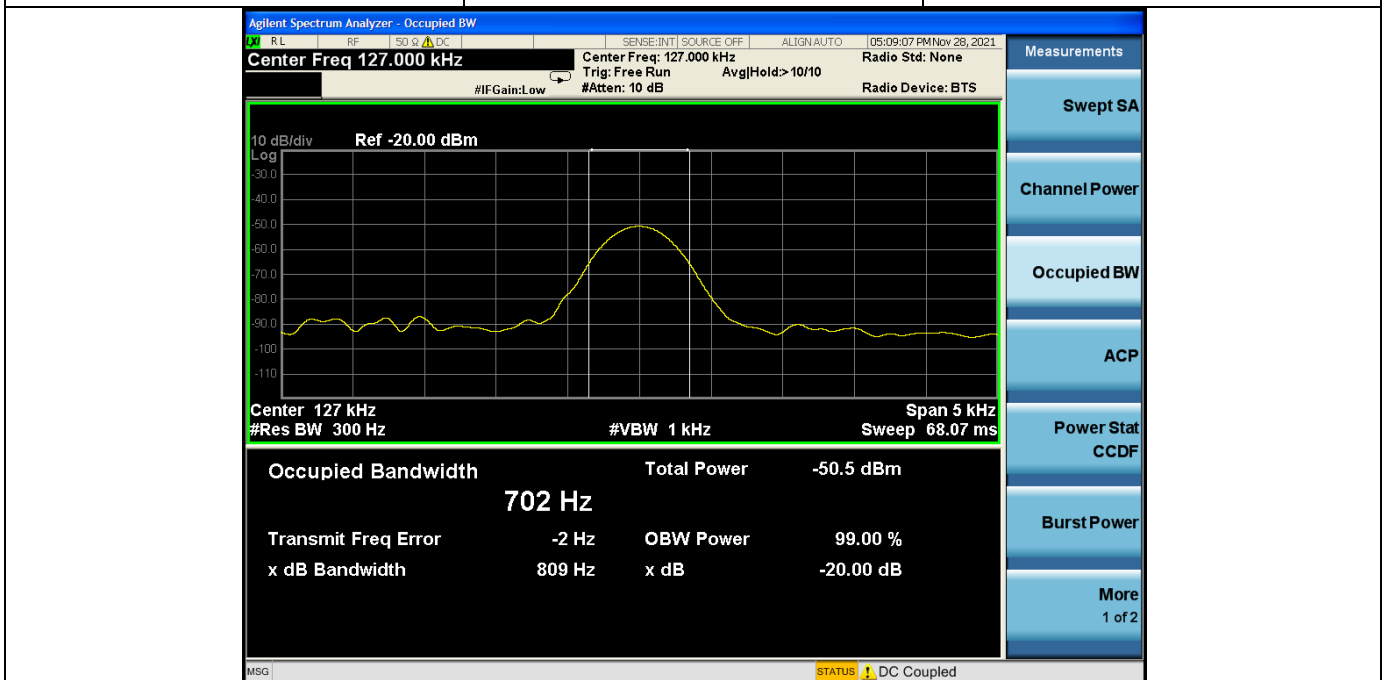
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation.
- The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement
- Set detection mode to peak and trace mode to max hold.
- Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

5.5.2 Test Result

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

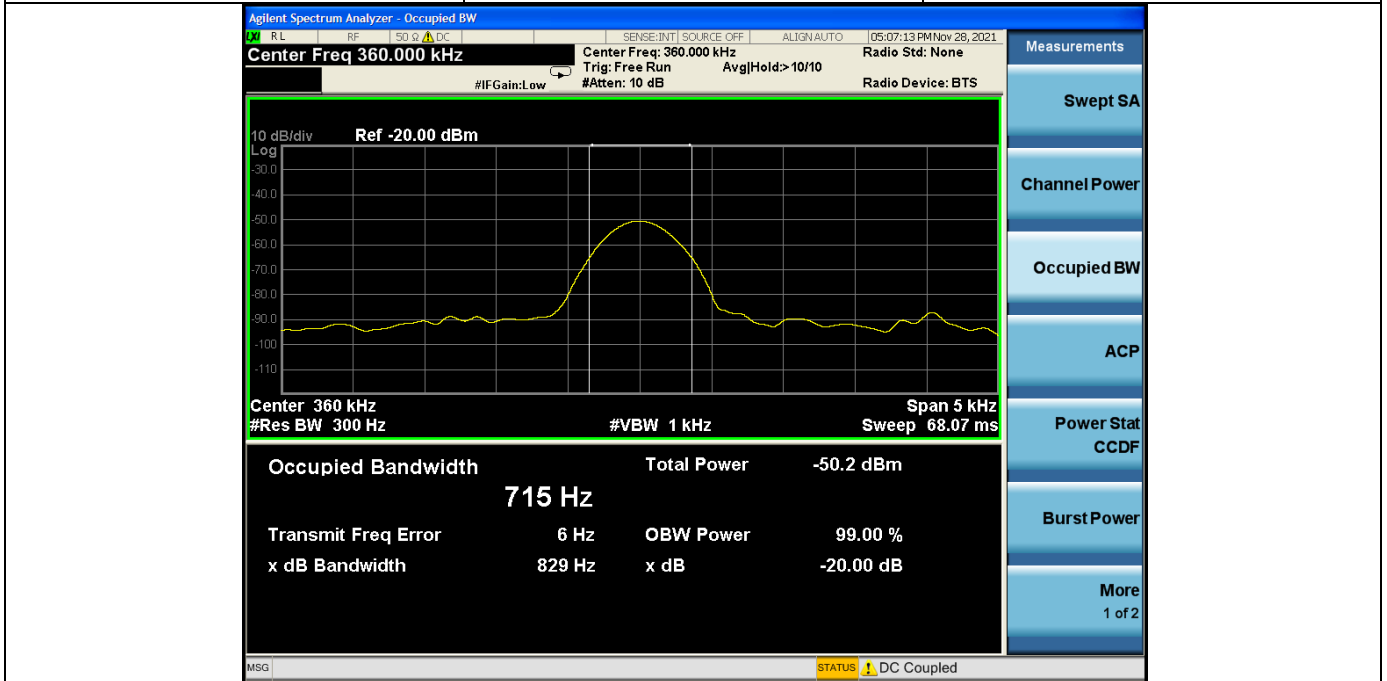
Mobile phone-7.5W@127kHz:

Frequency kHz	20 dB occupied bandwidth kHz	99% occupied bandwidth kHz
127	0.809	0.702

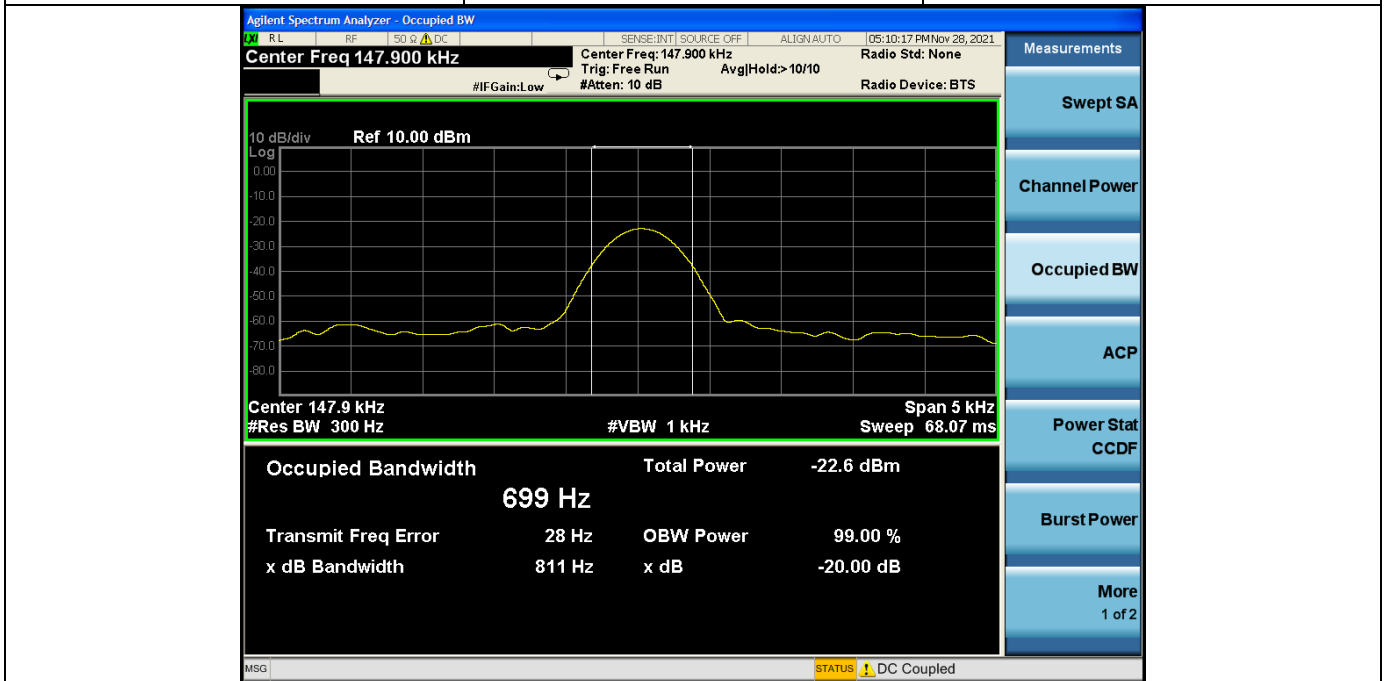


Mobile phone-15W@360kHz:

Frequency kHz	20 dB occupied bandwidth kHz	99% occupied bandwidth kHz
360	0.829	0.715


AirPods-5W@147.9kHz:

Frequency kHz	20 dB occupied bandwidth kHz	99% occupied bandwidth kHz
147.9	0.811	0.699



6 Photographs of the test setup

See the APPENDIX – Test Setup Photos.

7 Photographs of the EUT

See the APPENDIX - EUT Photos.

----End of Report----