Microtest
微测检测

Test Report

FCC ID: 2AOROP2

Date of issue: Nov. 09, 2018

Report Number:	MTi181106E033
Sample Description:	Fast Wireless Charger
Model(s):	P2, P2-BG, P2-WR, IC-WL07B, IC-WL07W
Applicant:	Shenzhen Zhitong Time Electronics Co., Ltd
Address:	5/F, Building B, Sanmin Industrial Park, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen
Date of Test:	Oct. 22, 2018 – Nov. 06, 2018

Shenzhen Microtest Co., Ltd.
http://www.mtitest.com

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Test Result Certification

Applicant's name:	Shenzhen Zhitong Time Electronics Co., Ltd
Address:	5/F, Building B, Sanmin Industrial Park, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen
Manufacture's name:	Shenzhen Zhitong Time Electronics Co., Ltd
Address:	5/F, Building B, Sanmin Industrial Park, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen
Product name:	Fast Wireless Charger
Trademark:	N/A
Model name:	P2, P2-BG, P2-WR, IC-WL07B, IC-WL07W
Standards:	FCC Part 15C
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	Demi Mu	Nov. 06, 2018
Reviewed by:	Blue. Zheng	Nov. 09, 2018
Approved by:	Smith Chen	Nov. 09, 2018

1 GENERAL INFORMATION

1.1 Feature of equipment under test (EUT)

Product name:	Fast Wireless Charger
Model name:	P2
Series model:	P2-BG, P2-WR, IC-WL07B, IC-WL07W
Deference in serial model:	All the model are the same circuit and RF module, except the color.
Operation frequency:	115–205 kHz
Modulation type:	Load modulation
Antenna type:	Coil Antenna (Met 15.203 Antenna requirement)
Power supply:	DC 5V or 9V from adapter
Battery:	N/A
Adapter information:	N/A

1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test mode	Description
Mode 1	Wireless charging

Note1: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

Note2: EUT is tested under full load and belongs to the worst mode.

1.3 EUT test setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	HW-050100E01	/	/
Mobile phone	S8	/	SAMSUNG

1.5 Measurement Uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

2 SUMMARY OF TEST RESULT

Item	FCC Part No.	Description of Test	Result
1	FCC PART 15.203	Antenna requirement	Pass
2	FCC PART 15.207	Conducted emission	Pass
3	FCC PART 15.209	Radiated emission	Pass
4	FCC Part 15.215	20dB bandwidth	Pass

2.1 Operation channel list

Channel List

Channel	Frequency (kHz)
Low	115
Middle	123
High	205

2.2 Test channel

Channel	Frequency (kHz)
Middle	123

3 TEST FACILITIES AND ACCREDITATIONS

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	20ºC~30ºC
Humidity	30%~70%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

3.4 Test software

Software Name	Manufacturer	Model	Version
RF Test System	Farad	LZ-RF	Lz_Rf 3A3

4 LIST OF TEST EQUIPMENT

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E001	Spectrum Analyzer	Agilent	E4407B	MY41441082	2018/09/18	2019/09/17
MTI-E002	CMU 200 universal radio communication tester	Rohde&schwarz	CMU 200	114587	2018/09/18	2019/09/17
MTI-E004	EMI Test Receiver	Rohde&schwarz	ESPI	1000314	2018/09/18	2019/09/17
MTI-E006	Broadband antenna	schwarabeck	VULB9163	872	2018/09/18	2019/09/17
MTI-E007	Horn antenna	schwarabeck	BBHA9120D	1201	2018/09/18	2019/09/17
MTI-E014	amplifier	America	8447D	3113A06150	2018/09/18	2019/09/17
MTI-E015	Conduction Immunity Signal Generator	Schloder	CDG6000	126A1343/2015	2018/09/18	2019/09/17
MTI-E016	Coupled decoupling network	Schloder	CDA M2/M3	A2210332/2015	2018/09/18	2019/09/17
MTI-E032	Comprehensive test instrument	Rohde&schwarz	CMW500	124192	2018/04/13	2019/04/12
MTI-E034	amplifier	Agilent	8449B	3008A02400	2018/08/22	2019/08/21
MTI-E037	Artificial power network	Schwarzbeck	NSLK8127	#841	2018/09/26	2019/09/25
MTI-E040	Spectrum analyzer	Agilent	N9020A	MY49100060	2018/03/05	2019/03/04
MTI-E041	Signal generator	Agilent	N5182A	MY49060455	2018/02/23	2019/02/22
MTI-E042	Analog signal generator	Agilent	E4421B	GB40051240	2018/02/23	2019/02/22
MTI-E043	Power probe	Dare Instruments	RPR3006W	16I00054SNO16	2018/02/29	2019/02/28
MTI-E047	10dB attenuator	Mini-Circuits	UNAT-10+	15542	2018/05/24	2019/05/23
MTI-E049	spectrum analyzer	Rohde&schwarz	FSP-38	100019	2018/09/18	2019/09/17
MTI-E050	PSG Signal generator	Agilent	E8257D	MY46520873	2018/04/24	2019/04/23
MTI-E051	Active Loop Antenna 9kHz - 30MHz	Schwarzbeek	FMZB 1519 B	00044	2018/02/26	2019/02/25
MTI-E052	18-40GHz amplifier	Chengdu step Micro Technology	ZLNA-18-40G-21	1608001	2018/09/18	2019/09/17
MTI-E053	15-40G Antenna	Schwarzbeek	BBHA9170	BBHA9170582	2018/09/18	2019/09/17
MTI-E058	Artificial power network	Schwarzbeck	NSLK8127	#841	2017/12/05	2018/12/04
Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).						

5 TEST RESULTS

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 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

5.1.2 EUT Antenna

The EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted emission

5.2.1 Limits

For the following equipment, when 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 shall not exceed the limits in the following tables. 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 using a 50 μH/50 ohms line impedance stabilization network (LISN).

Frequency (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.5 -5	56	46
5 -30	60	50

Note : the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

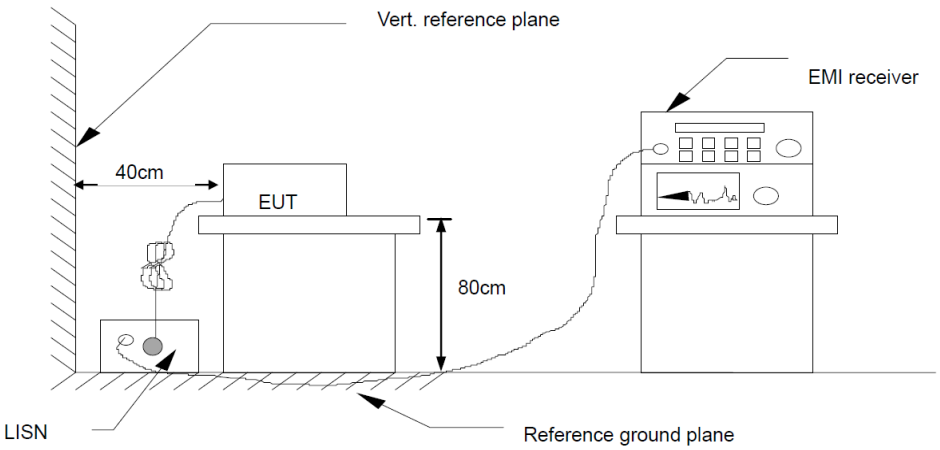
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

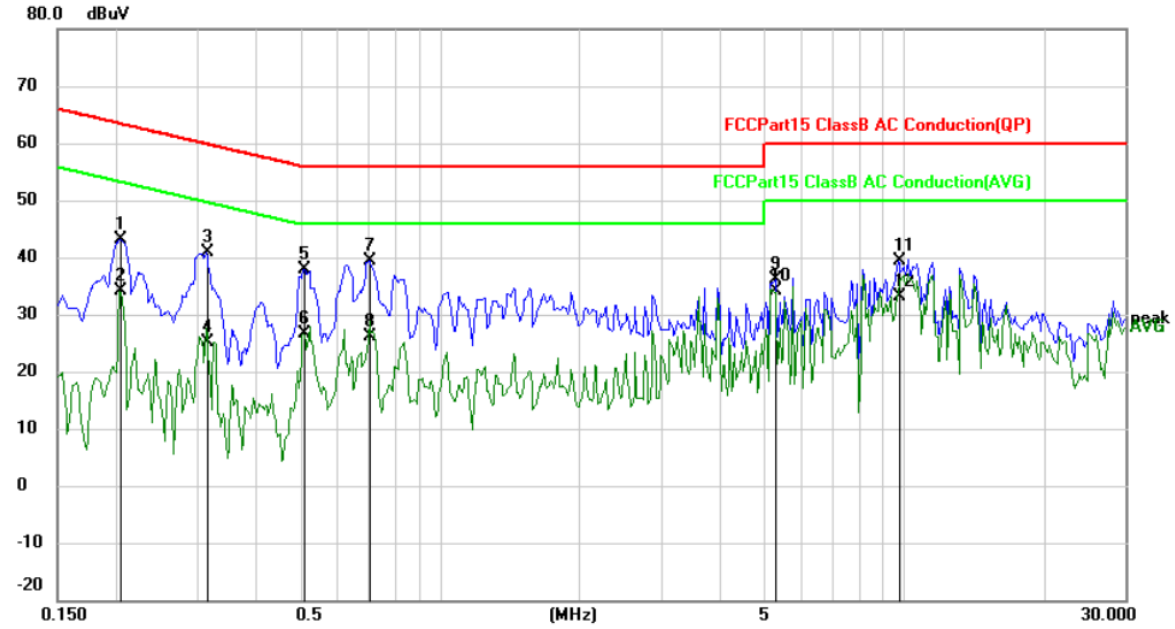
For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



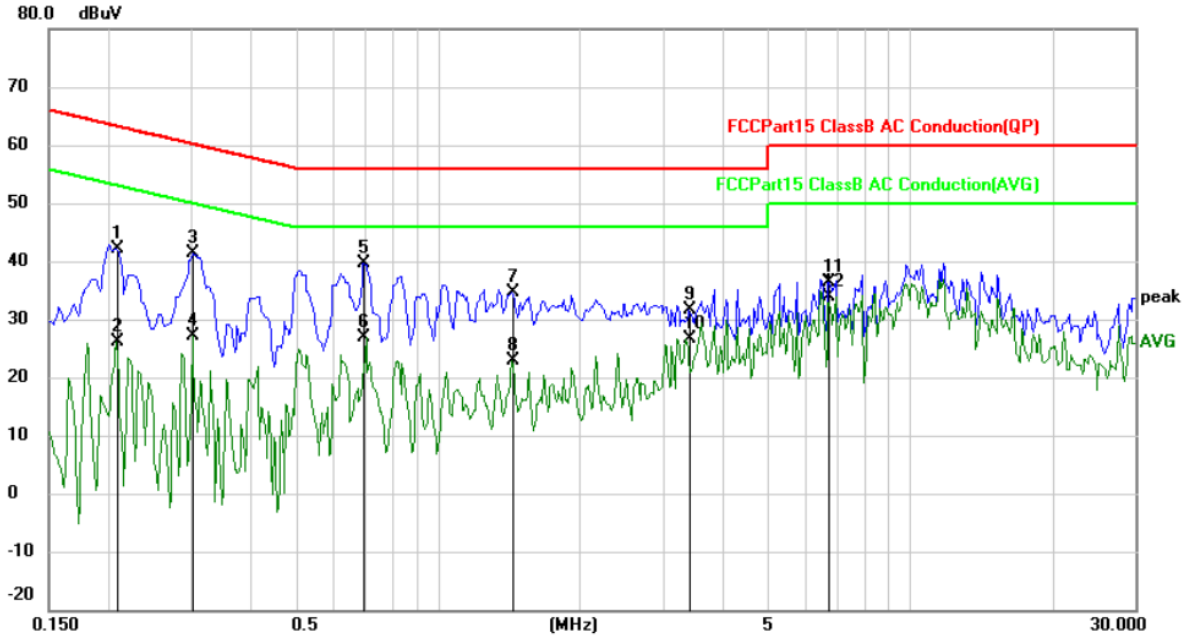
5.2.4 Test Result

Temperature:	27℃	Relative Humidity:	65%
Pressure:	101kPa	Phase:	L
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



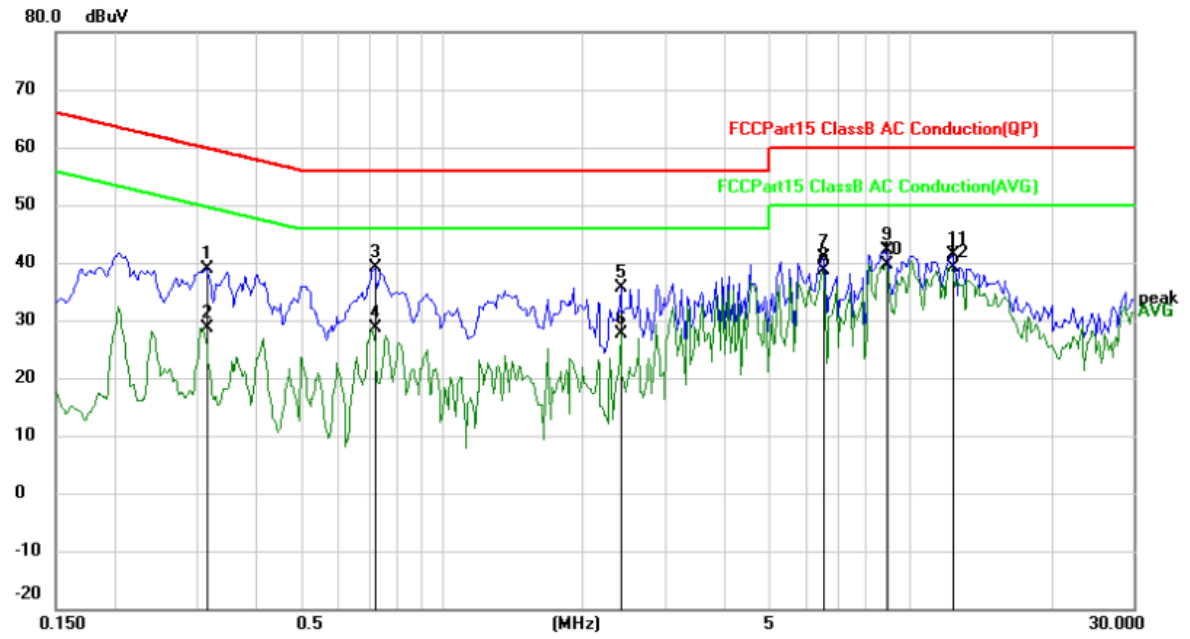
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2047	41.48	1.57	43.05	63.42	-20.37	QP	
2		0.2047	32.59	1.57	34.16	53.42	-19.26	AVG	
3		0.3141	39.26	1.57	40.83	59.86	-19.03	QP	
4		0.3141	23.59	1.57	25.16	49.86	-24.70	AVG	
5		0.5094	36.39	1.57	37.96	56.00	-18.04	QP	
6		0.5094	25.01	1.57	26.58	46.00	-19.42	AVG	
7		0.7047	37.86	1.57	39.43	56.00	-16.57	QP	
8		0.7047	24.57	1.57	26.14	46.00	-19.86	AVG	
9		5.2852	35.75	0.34	36.09	60.00	-23.91	QP	
10	*	5.2852	33.73	0.34	34.07	50.00	-15.93	AVG	
11		9.7305	39.08	0.39	39.47	60.00	-20.53	QP	
12		9.7305	32.66	0.39	33.05	50.00	-16.95	AVG	

Temperature:	27℃	Relative Humidity:	65%
Pressure:	101kPa	Phase:	N
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



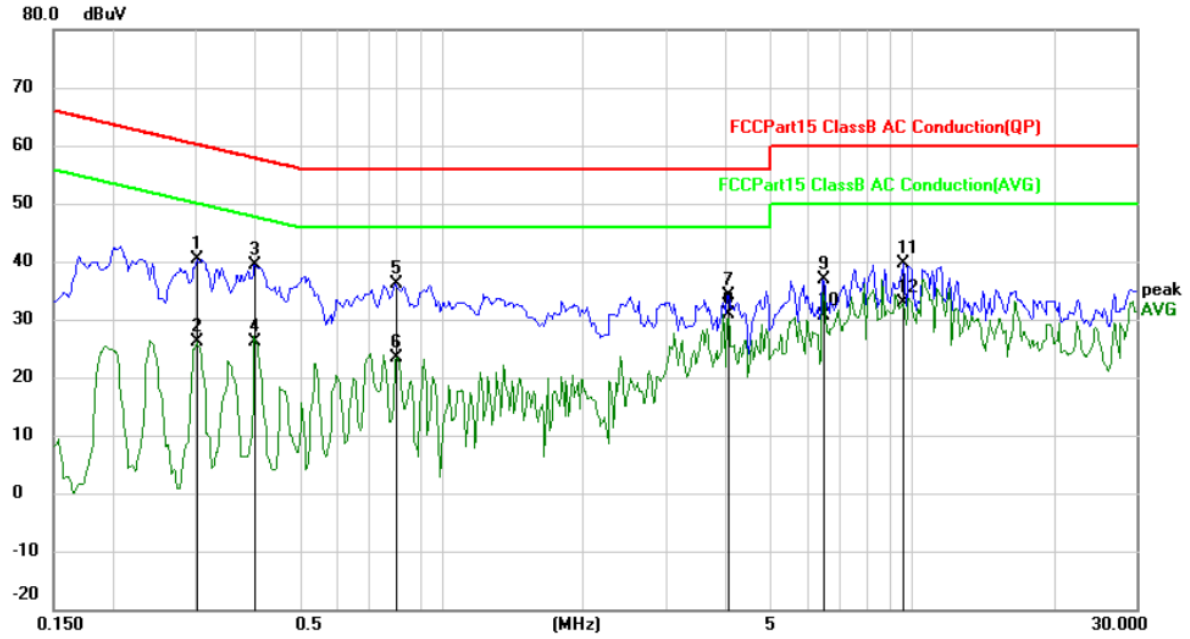
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2086	40.60	1.57	42.17	63.26	-21.09	QP	
2		0.2086	24.59	1.57	26.16	53.26	-27.10	AVG	
3		0.3023	39.83	1.57	41.40	60.18	-18.78	QP	
4		0.3023	25.46	1.57	27.03	50.18	-23.15	AVG	
5		0.6969	38.04	1.57	39.61	56.00	-16.39	QP	
6		0.6969	25.34	1.57	26.91	46.00	-19.09	AVG	
7		1.4391	33.09	1.58	34.67	56.00	-21.33	QP	
8		1.4391	21.37	1.58	22.95	46.00	-23.05	AVG	
9		3.4023	30.56	0.97	31.53	56.00	-24.47	QP	
10		3.4023	25.72	0.97	26.69	46.00	-19.31	AVG	
11		6.7266	36.12	0.38	36.50	60.00	-23.50	QP	
12	*	6.7266	33.42	0.38	33.80	50.00	-16.20	AVG	

Temperature:	27℃	Relative Humidity:	65%
Pressure:	101kPa	Phase:	L
Test voltage:	DC 5V from adapter AC 240V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3140	37.43	1.57	39.00	59.86	-20.86	QP	
2		0.3140	27.08	1.57	28.65	49.86	-21.21	AVG	
3		0.7203	37.48	1.57	39.05	56.00	-16.95	QP	
4		0.7203	27.15	1.57	28.72	46.00	-17.28	AVG	
5		2.4117	34.32	1.30	35.62	56.00	-20.38	QP	
6		2.4117	26.44	1.30	27.74	46.00	-18.26	AVG	
7		6.4960	40.46	0.37	40.83	60.00	-19.17	QP	
8		6.4960	38.34	0.37	38.71	50.00	-11.29	AVG	
9		8.9062	41.74	0.39	42.13	60.00	-17.87	QP	
10	*	8.9062	39.24	0.39	39.63	50.00	-10.37	AVG	
11		12.2695	40.96	0.35	41.31	60.00	-18.69	QP	
12		12.2695	38.74	0.35	39.09	50.00	-10.91	AVG	

Temperature:	27℃	Relative Humidity:	65%
Pressure:	101kPa	Phase:	N
Test voltage:	DC 5V from adapter AC 240V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3023	38.93	1.57	40.50	60.18	-19.68	QP	
2		0.3023	24.61	1.57	26.18	50.18	-24.00	AVG	
3		0.4017	37.72	1.57	39.29	57.82	-18.53	QP	
4		0.4017	24.65	1.57	26.22	47.82	-21.60	AVG	
5		0.7983	34.47	1.57	36.04	56.00	-19.96	QP	
6		0.7983	21.78	1.57	23.35	46.00	-22.65	AVG	
7		4.0701	33.25	0.85	34.10	56.00	-21.90	QP	
8	*	4.0701	29.92	0.85	30.77	46.00	-15.23	AVG	
9		6.4804	36.55	0.37	36.92	60.00	-23.08	QP	
10		6.4804	30.33	0.37	30.70	50.00	-19.30	AVG	
11		9.6014	39.26	0.39	39.65	60.00	-20.35	QP	
12		9.6014	32.47	0.39	32.86	50.00	-17.14	AVG	

5.3 Radiated emission

5.3.1 Limits

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

The limit for radiated test was performed according to FCC PART 15C.
The tighter limit applies at the band edges.
Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP

Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. 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.

e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

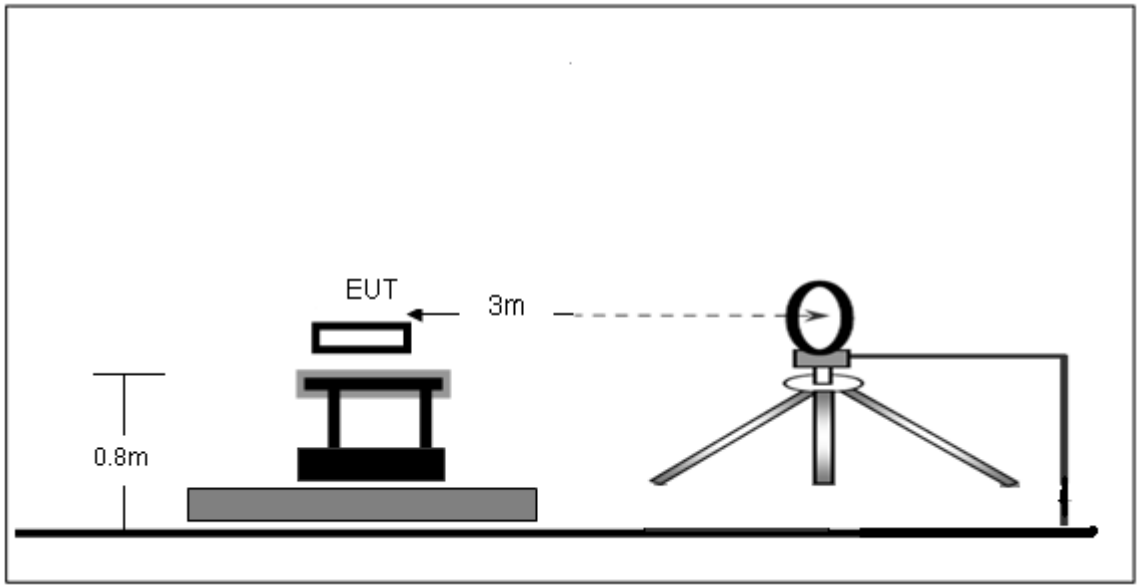
g. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

h. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

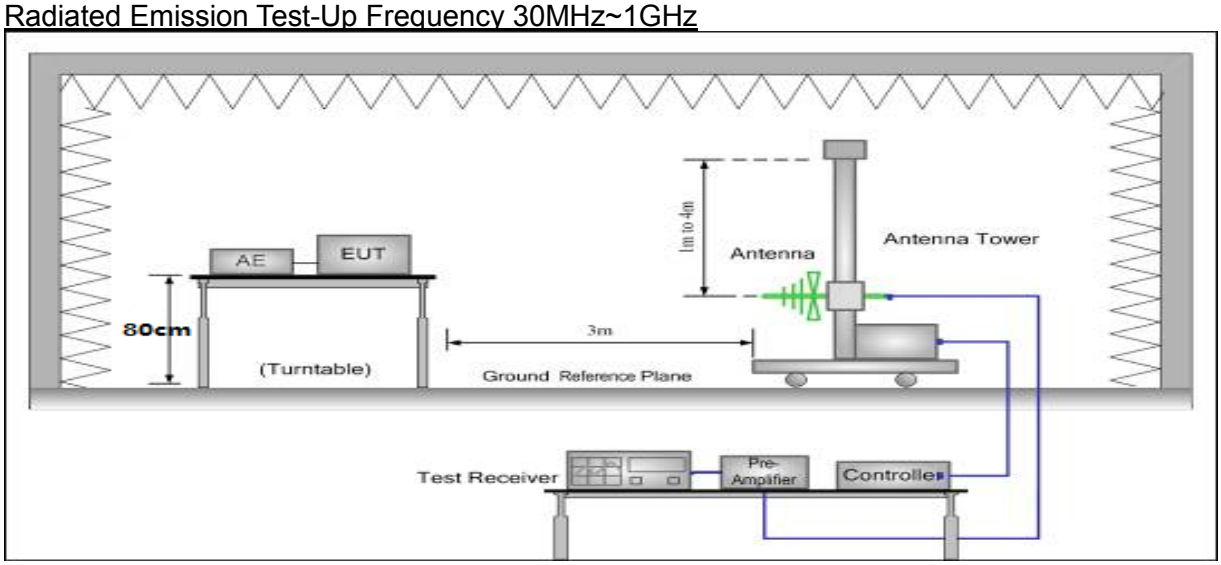
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



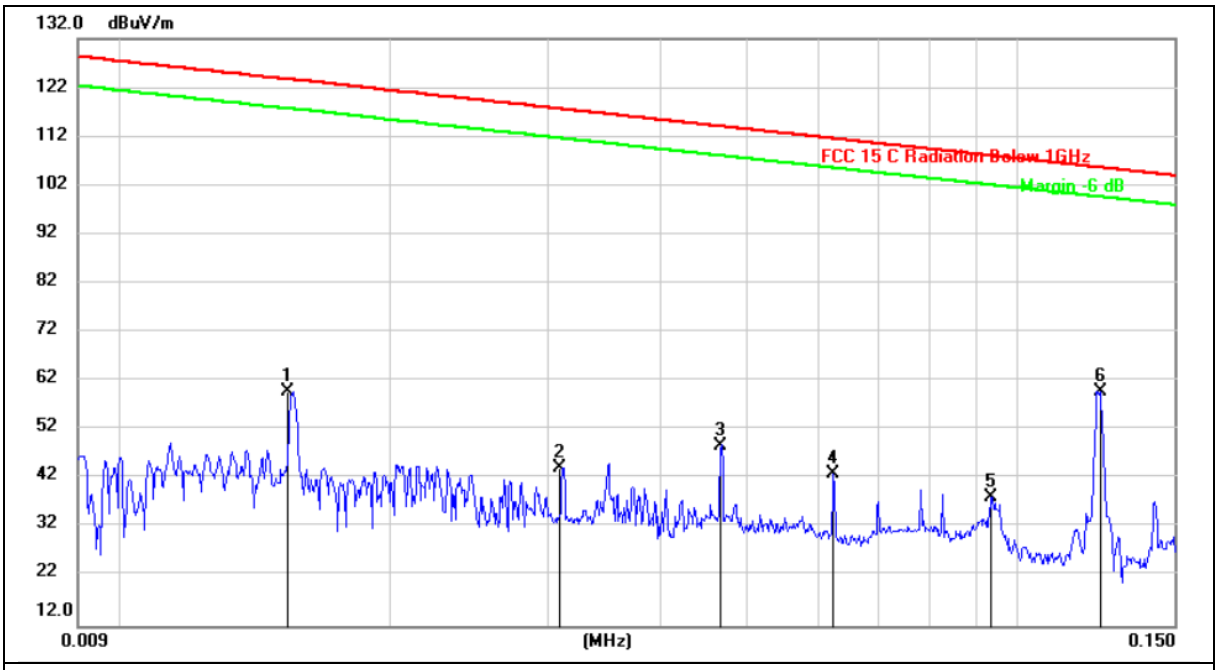
Radiated Emission Test-Up Frequency 30MHz~1GHz



5.3.4 Test Result

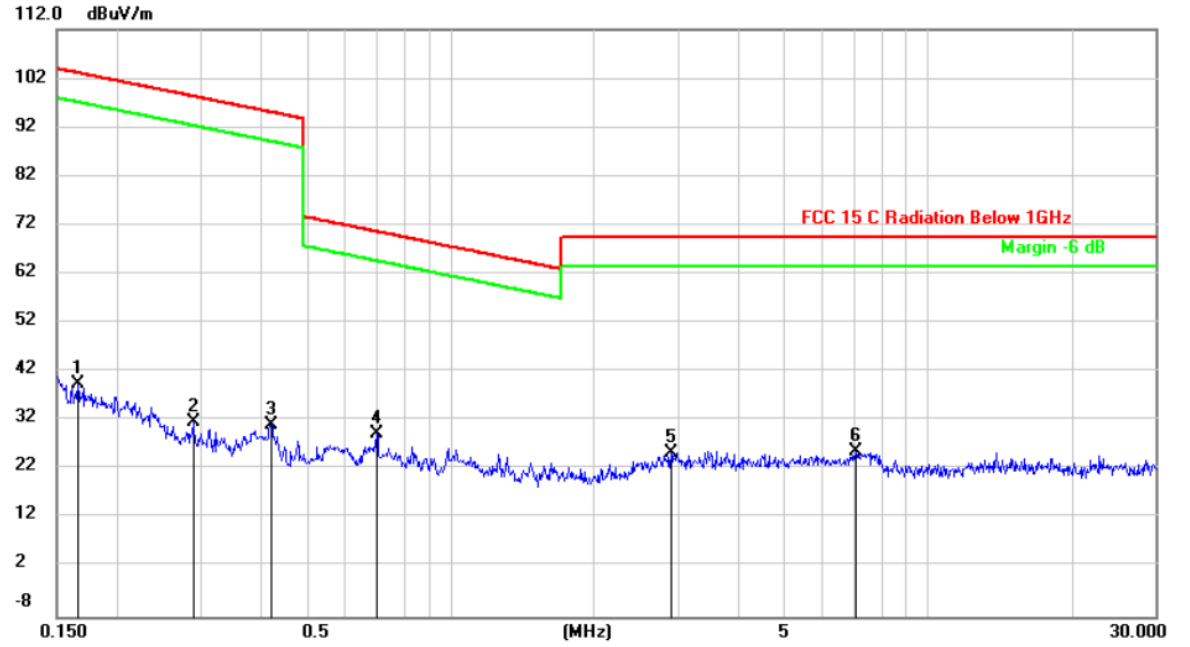
Frequency range (9kHz – 30MHz)

Temperature:	23℃	Relative Humidity:	59%
Pressure:	101kPa	Test mode:	Mode 1
Test voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
1		0.0154	39.08	20.62	59.70	123.69	-63.99	peak
2		0.0309	23.80	20.42	44.22	117.67	-73.45	peak
3		0.0468	28.47	20.43	48.90	114.09	-65.19	peak
4		0.0625	22.69	20.43	43.12	111.59	-68.47	peak
5		0.0937	17.92	20.45	38.37	108.09	-69.72	peak
6	*	0.1237	39.43	20.43	59.86	105.69	-45.83	peak

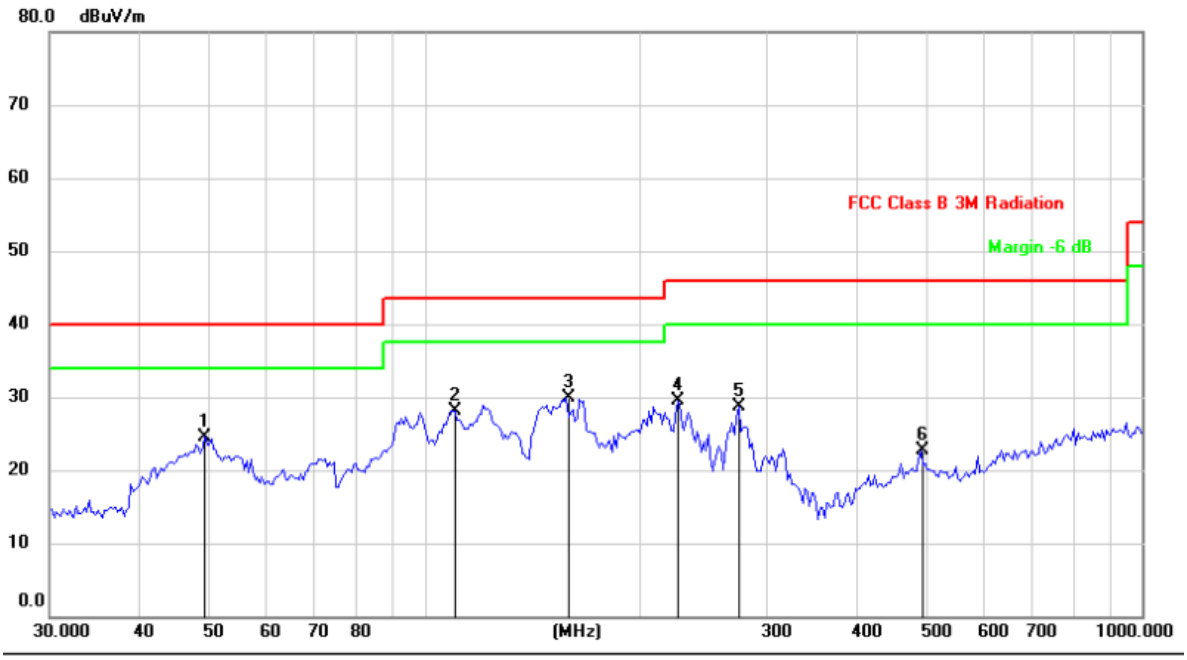
Temperature:	23℃	Relative Humidity:	59%
Pressure:	101kPa	Test mode:	Mode 1
Test voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
1		0.1658	19.07	20.38	39.45	103.16	-63.71	peak
2		0.2893	11.54	20.33	31.87	98.35	-66.48	peak
3		0.4193	10.85	20.31	31.16	95.15	-63.99	peak
4	*	0.7006	9.12	20.28	29.40	70.70	-41.30	peak
5		2.8997	5.07	20.27	25.34	69.50	-44.16	peak
6		7.0621	5.30	20.36	25.66	69.50	-43.84	peak

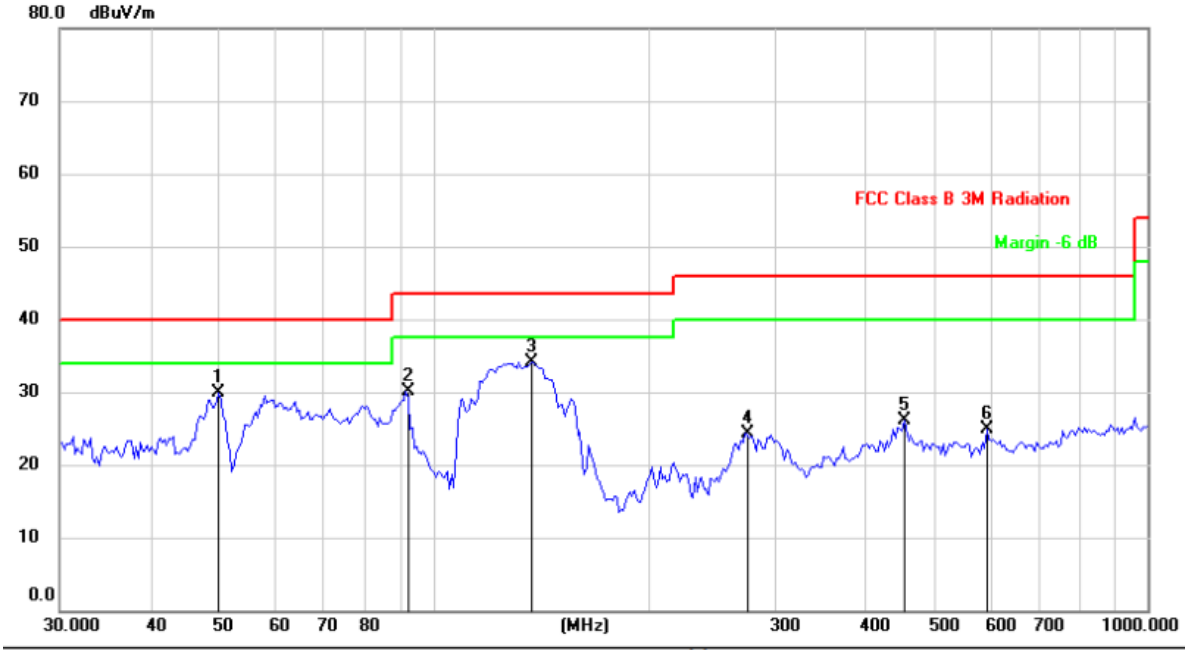
Frequency range (30MHz – 1GHz)

Temperature:	23℃	Relative Humidity:	59%
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
1		49.4087	34.26	-9.66	24.60	40.00	-15.40	QP
2		109.3110	39.59	-11.44	28.15	43.50	-15.35	QP
3	*	157.5290	43.99	-14.16	29.83	43.50	-13.67	QP
4		225.4267	40.37	-10.86	29.51	46.00	-16.49	QP
5		274.4464	37.97	-9.33	28.64	46.00	-17.36	QP
6		491.7700	27.96	-5.19	22.77	46.00	-23.23	QP

Temperature:	23℃	Relative Humidity:	59%
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
1		50.0566	39.56	-9.67	29.89	40.00	-10.11	QP
2		91.4949	43.02	-12.86	30.16	43.50	-13.34	QP
3	*	137.4200	47.84	-13.80	34.04	43.50	-9.46	QP
4		273.2341	32.78	-8.38	24.40	46.00	-21.60	QP
5		455.9057	31.76	-5.73	26.03	46.00	-19.97	QP
6		595.1326	29.23	-4.42	24.81	46.00	-21.19	QP

5.4 Occupied bandwidth

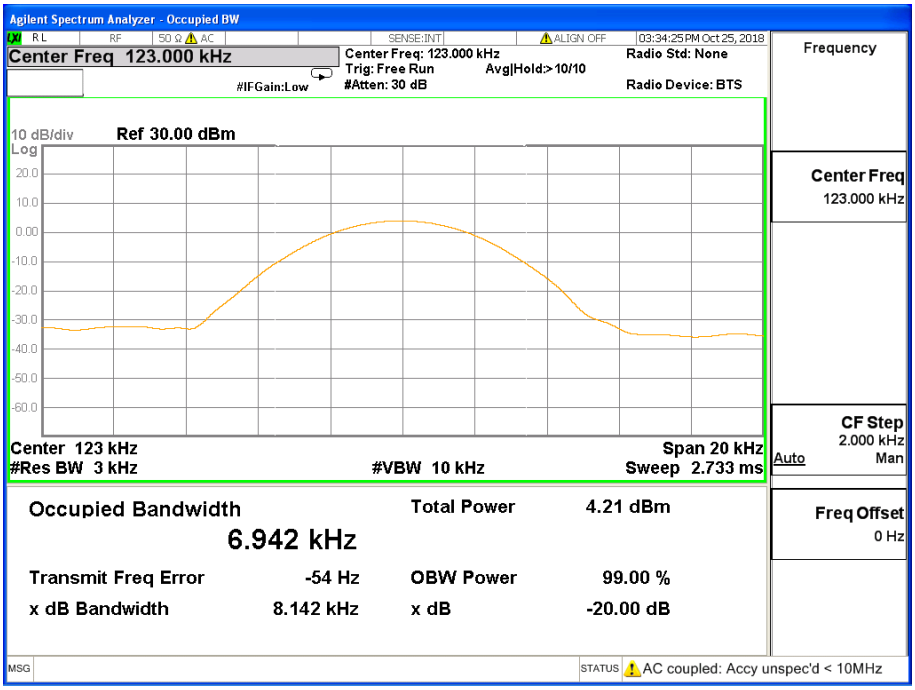
5.4.1 Test method

Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW ≥1% of the 20 dB bandwidth
VBW ≥RBW
Sweep = auto
Detector function = peak
Trace = max hold
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

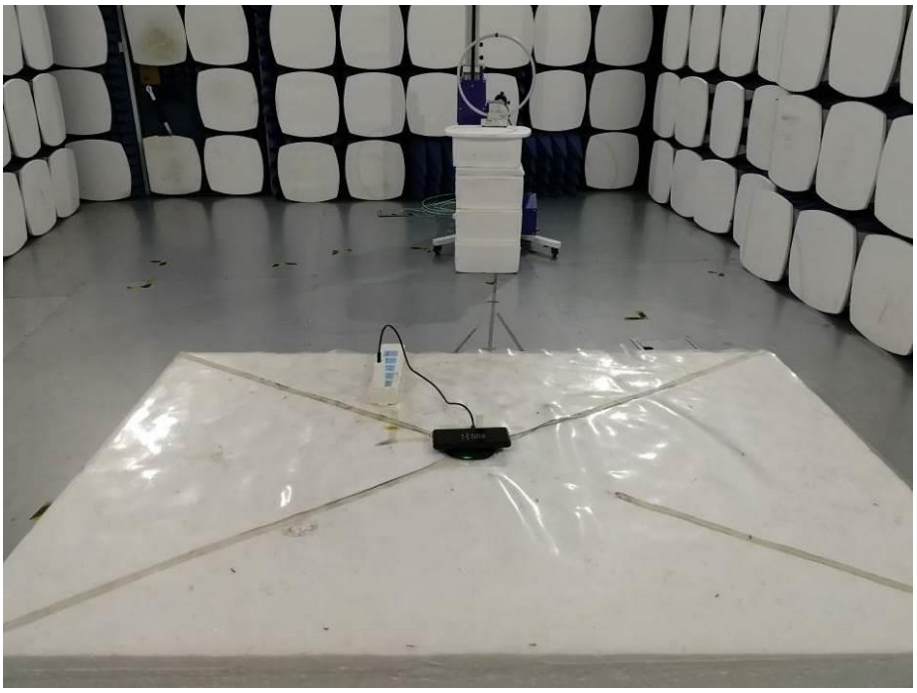
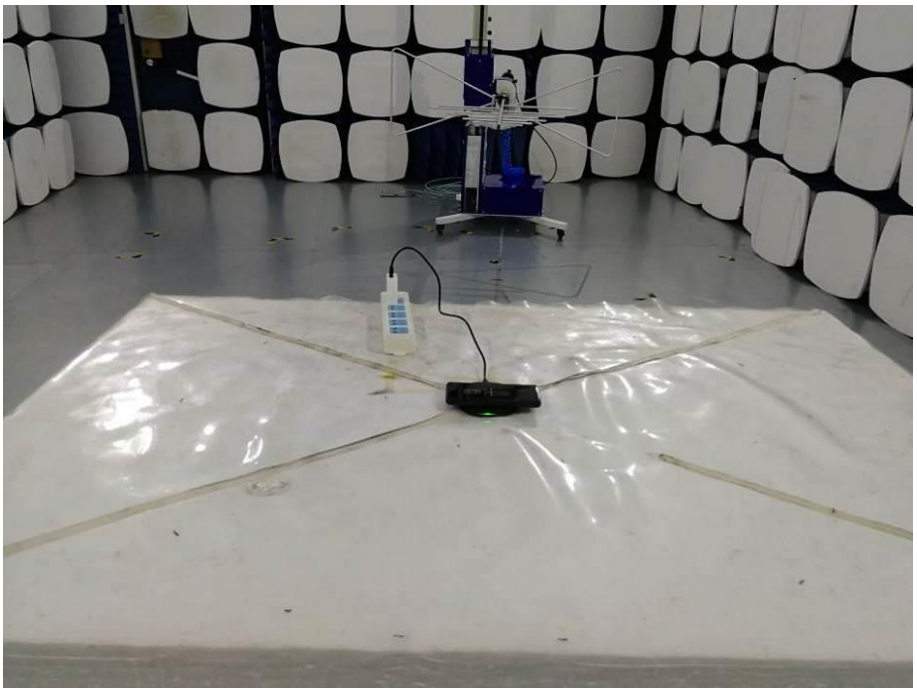
5.4.2 Test result

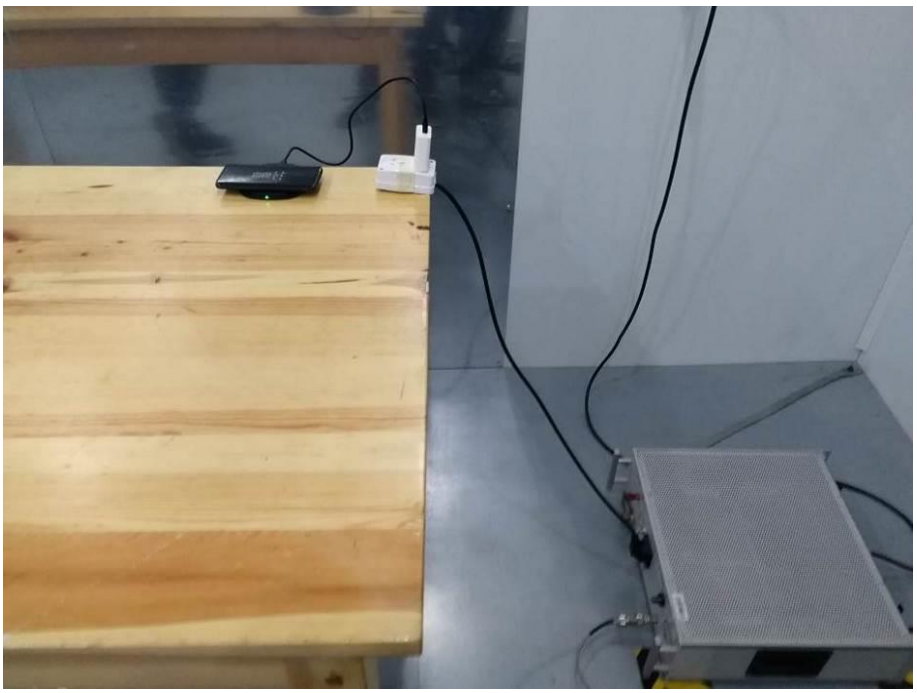
Frequency (kHz)	20dB emission bandwidth (kHz)	99% occupied bandwidth (kHz)
123	8.142	6.942

Test plots as below



Photographs of the Test Setup

Radiated emission



Conducted emission


Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report No.: MTi181106E033-1.

----END OF REPORT----