



RADIO TEST REPORT

Report No.: SHATBL2202020W01

Applicant:
FEITELECTRIC COMPANY,INC.

Address:
4901 Gregg RoadPico Rivera, CA 90660, United States of America

Product Name : wireless remote

Brand Name : N/A

Model Name : FESWITCH/REM

Series Model : N/A

Test Standard : RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 ,March 2019

IC : 20416-FESWTCHREM

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GENERAL DESCRIPTION

Applicant's Name.....: FEITELECTRIC COMPANY,INC.

Address.....: 4901 Gregg RoadPico Rivera, CA 90660, United States of America

Manufacture's Name.....: JIANGSU GENERAL PROTECHT CO LTD

Address.....: NO.33 North Changsheng Road Taicang, Jiangsu 215400 CHINA

Product Description

Product Name.....: wireless remote

Brand Name: N/A

Model Name: FESWITCH/REM

Series Model.....: N/A

Test Standards: RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 ,March 2019

Test Procedure.....: ANSI C63.10-2013

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

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Date of receipt of test item: 18 Feb. 2022

Date (s) of performance of tests.....: 18 Feb. 2022 ~ 04 Mar. 2022

Date of Issue.....: 10 Mar. 2022

Test Result: **Pass**

Report Prepared by :

Roean Wei

(Roean Wei)

Report Approved by :

Ghost Li

(Ghost Li)

Authorized Signatory :

Terry Yang

(Terry Yang)



Table of Contents

Table of Contents

1. SUMMARY OF TEST RESULTS	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	9
2.3 TEST SOFTWARE AND POWER LEVEL	9
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.6 LABORATORY INFORMATION	11
2.7 MEASUREMENT UNCERTAINTY	12
2.8 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 TEST PROCEDURE	15
3.3 TEST SETUP	15
3.4 EUT OPERATING CONDITIONS	15
3.5 TEST RESULTS	16
4. RADIATED EMISSION MEASUREMENT	18
4.1 RADIATED EMISSION LIMITS	18
4.2 TEST PROCEDURE	21
4.3 TEST SETUP	22
4.4 EUT OPERATING CONDITIONS	22
4.5 FIELD STRENGTH CALCULATION	23
4.6 TEST RESULTS	24
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	36
5.1 LIMIT	36
5.2 TEST PROCEDURE	36
5.3 TEST SETUP	36
5.4 EUT OPERATION CONDITIONS	36
5.5 TEST RESULTS	37
6. POWER SPECTRAL DENSITY TEST	40
6.1 LIMIT	40
6.2 TEST PROCEDURE	40
6.3 TEST SETUP	40

Table of Contents

6.4 EUT OPERATION CONDITIONS	40
6.5 TEST RESULTS	41
7. BANDWIDTH TEST	43
7.1 LIMIT	43
7.2 TEST PROCEDURE	43
7.3 TEST SETUP	43
7.4 EUT OPERATION CONDITIONS	43
7.5 TEST RESULTS	44
8. PEAK OUTPUT POWER TEST	46
8.1 LIMIT	46
8.2 TEST PROCEDURE	46
8.3 TEST SETUP	46
8.4 EUT OPERATION CONDITIONS	46
8.5 TEST RESULTS	46
9. ANTENNA REQUIREMENT	49
9.1 STANDARD REQUIREMENT	49
9.2 EUT ANTENNA	49
APPENDIX-PHOTOS OF TEST SETUP	50

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	10 Mar. 2022	SHATBL2202020W01	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

RSS-247 Issue 2 RSS-Gen Issue 5			
Standard Section	Test Item	Judgment	Remark
RSS-Gen 8.8	Conducted Emission	PASS	--
RSS-Gen 6.7 RSS-247 5.2 (a)	6dB&99% Bandwidth	PASS	--
RSS-247 5.4 (d)	Output Power	PASS	--
RSS-247 Clause 5.5 & RSS-GEN 6.13 RSS-GEN 8.9 RSS-GEN 8.10	Radiated Spurious Emission	PASS	--
RSS-247 Clause 5.5 RSS-GEN 8.10	Conducted Spurious & Band Edge Emission	PASS	--
RSS-247 5.2 (b)	Power Spectral Density	PASS	--
RSS-Gen 8.9/8.10	Restricted bands of operation	PASS	--
RSS-Gen 6.8	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	wireless remote	
Trade Name	N/A	
Model Name	FESWITCH/REM	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a wireless remote	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Radio Technology:	BLE
	Bluetooth Version:	5.0
	Bluetooth Configuration:	LE(Support 1M PHY)
	Number Of Channel:	40
	Antenna Designation:	Please refer to the Note 3.
	Antenna Gain (dBi)	5 dBi
Channel List	Please refer to the Note 2.	
Power Rating	AC120V,50/60Hz	
Battery	None	
Hardware version number	WSM400B-TL_V1.9	
Software version number	WSM400B-TL_V1.0	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	FESWITCH/R EM	PCB print Antenna	N/A	5 dBi	BLE ANT

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

For Conducted Emission

Test Case	
Conducted Emission	Mode 4 : Keeping BT TX

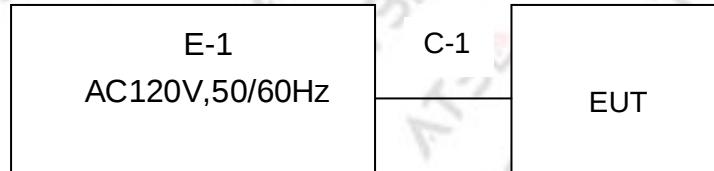
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

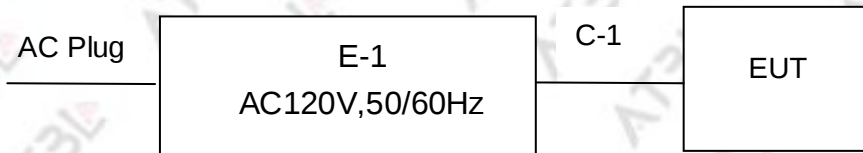
RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	5	default	rftool_v1.5.1

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conduction Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model	Type No.	Note
E-2	Notebook	Lenovo	DESKTOP-USDEO09	00326-10000-00000-AA636	N/A
C-1	USB Cable	N/A	100cm	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.6 LABORATORY INFORMATION

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	Building 8, No. 160, Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone:	+86(0)21-51298625
The FCC Registration Number (FRN):	0031025281
A2LA Number:	6184.01
CNAS Number:	CNAS L14531
CAB Identifier	CN0116

2.7 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.962\text{dB}$
2	Conducted spurious emissions	$\pm 2.986\text{dB}$
3	All emissions, radiated 30MHz-1GHz	$\pm 2.49\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.50\text{dB}$
5	Occupied bandwidth	$\pm 23.36\text{dB}$
6	Power spectral density	$\pm 0.866\text{dB}$

2.8 EQUIPMENTS LIST

2.8.1 Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
Test Receiver	R&S	ESCI	100469	SHATBL-E003	2022.07.13
Spectrum Analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2022.07.13
Bilog Antenna	SCHWARZBECK	VLUB 9168	01174	SHATBL-E008	2023.09.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	SHATBL-E009	2023.09.27
Pre-Amplifier (0.1M-3GHz)	JPT	JPA-10M1G35	21010100035001	SHATBL-E005	2022.10.07
Pre-Amplifier (1G-18GHz)	JPT	JPA0118-55-303A	1910001800055000	SHATBL-E006	2022.07.13
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E016	2022.10.08
Antenna/Turntable Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A
Test SW	FALA	EMC-RI(Ver.4A2)		SHATBL-E046	N/A

2.8.2 Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibration date
Test Receiver	R&S	ESPI	101679	SHATBL-E012	2022.07.13
LISN	R&S	ENV216	101300	SHATBL-E013	2022.07.13
LISN	R&S	ENV216	100333	SHATBL-E041	2022.03.08
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E015	2022.10.07
Test SW	FALA	EZ-EMC(Ver.EMC-CON3A1.1)		SHATBL-E044	N/A

2.8.3 RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until
Power meter (with pulse power sensor)	Anritsu	ML2496A	1935001	SHATBL-W030	2022.10.26
Pulse power sensor (with power meter)	Anritsu	MA2411B	1911006	SHATBL-W031	2022.10.26
Signal Analyzer	Agilent	N9020A	MY57300196	SHATBL-W004	2022.10.07
Signal Generator	Agilent	N5182B	MY46240556	SHATBL-W005	2022.10.07
Wireless Communications Test Set	R&S	CMW500	101331	SHATBL-W007	2022.10.07
Temperature & Humidity	Deli	deli	N/A	SHATBL-W011	2022.10.07
Attenuator	Agilent	8494B	DC-18G	SHATBL-W009	2022.10.07
Attenuator	Agilent	8496B	DC-18G	SHATBL-W010	2022.10.07
power splitter	MNK	MPD-DC/6-2 S	62315 G51	SHATBL-W015	2022.10.07
			62315 G52	SHATBL-W016	2022.10.07
Filter	Chengdu kangmaiwei	ZBSF-C2400 -2483.5-T3	N/A	SHATBL-W021	N/A
Constant temperature and humidity box	KSON	THS-B6C-150	6159K	SHATBL-W019	2023.01.17
Test SW	FALA	LZ-RF(Ver.LzRF-03A3.1)		SHATBL-W020	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a)&RSS-Gen Issue 5 limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

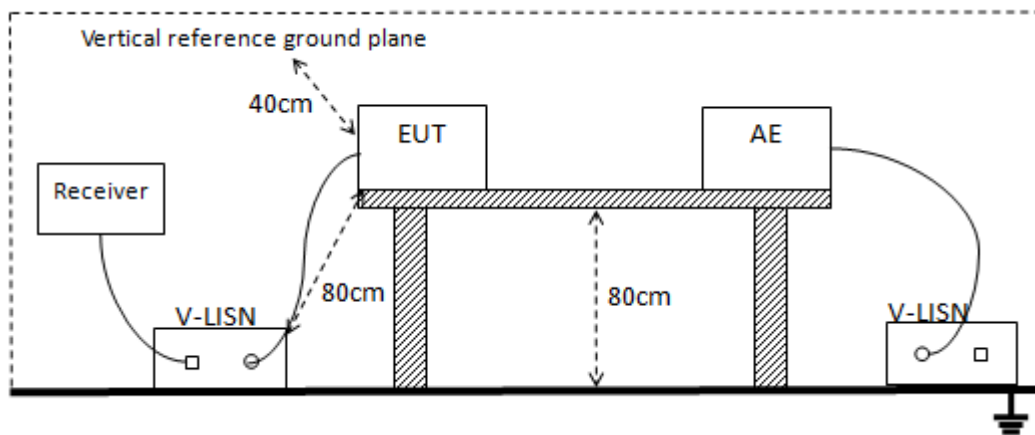
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 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 the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

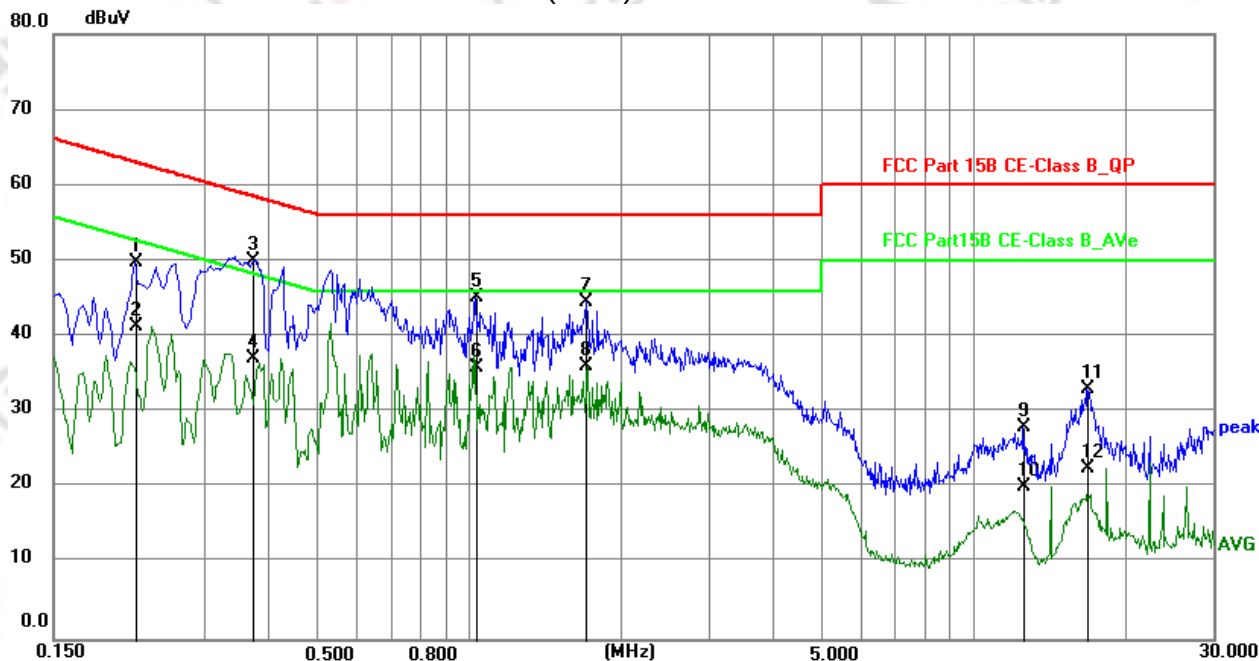
3.5 TEST RESULTS

Temperature:	26.8℃	Relative Humidity:	66%RH
Test Voltage:	AC120V	Phase:	L
Test Mode:	Mode 4		

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	0.2175	39.76	10.08	49.84	62.91	-13.07	QP
2	0.2175	31.29	10.08	41.37	52.91	-11.54	AVG
3	0.3750	40.08	10.07	50.15	58.39	-8.24	QP
4	0.3750	27.05	10.07	37.12	48.39	-11.27	AVG
5	1.0320	35.25	9.94	45.19	56.00	-10.81	QP
6	1.0320	26.13	9.94	36.07	46.00	-9.93	AVG
7	1.7115	34.73	9.97	44.70	56.00	-11.30	QP
8	1.7115	26.22	9.97	36.19	46.00	-9.81	AVG
9	12.6015	17.55	10.53	28.08	60.00	-31.92	QP
10	12.6015	9.63	10.53	20.16	50.00	-29.84	AVG
11	16.8945	22.35	10.74	33.09	60.00	-26.91	QP
12	16.8945	11.89	10.74	22.63	50.00	-27.37	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit.
3. Factor = LISN factor + Cable loss + Limiter (10dB)



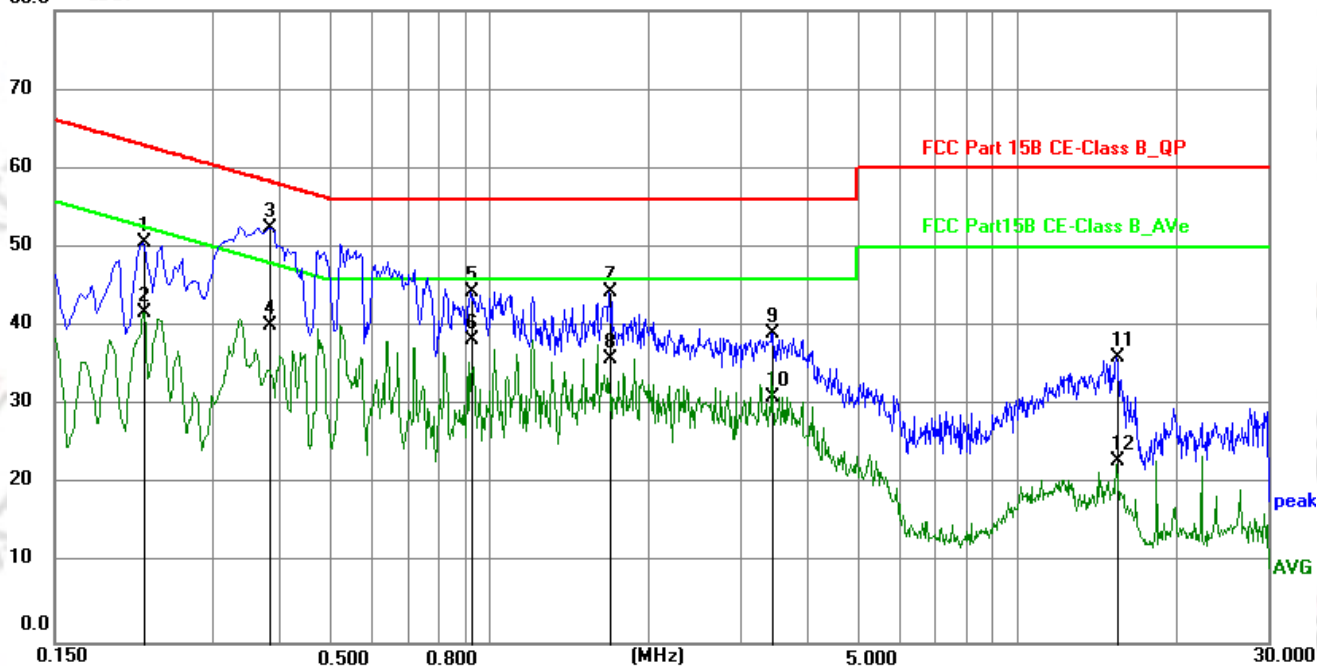
Temperature:	26.2℃	Relative Humidity:	53%RH
Test Voltage:	AC 120V	Phase:	N
Test Mode:	Mode 4		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2220	40.35	10.36	50.71	62.74	-12.03	QP
2	0.2220	31.55	10.36	41.91	52.74	-10.83	AVG
3	0.3840	42.29	10.28	52.57	58.19	-5.62	QP
4	0.3840	29.85	10.28	40.13	48.19	-8.06	AVG
5	0.9240	34.35	10.15	44.50	56.00	-11.50	QP
6	0.9240	28.33	10.15	38.48	46.00	-7.52	AVG
7	1.6980	34.33	10.19	44.52	56.00	-11.48	QP
8	1.6980	25.70	10.19	35.89	46.00	-10.11	AVG
9	3.4395	29.03	10.26	39.29	56.00	-16.71	QP
10	3.4395	20.90	10.26	31.16	46.00	-14.84	AVG
11	15.4860	25.84	10.31	36.15	60.00	-23.85	QP
12	15.4860	12.68	10.31	22.99	50.00	-27.01	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit.
3. Factor = LISN factor + Cable loss + Limiter (10dB)

80.0 dBuV



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a), RSS-Gen Issue 5 and RSS-247 Issue 2, February 2017 (5.5) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

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)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

IC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6

8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

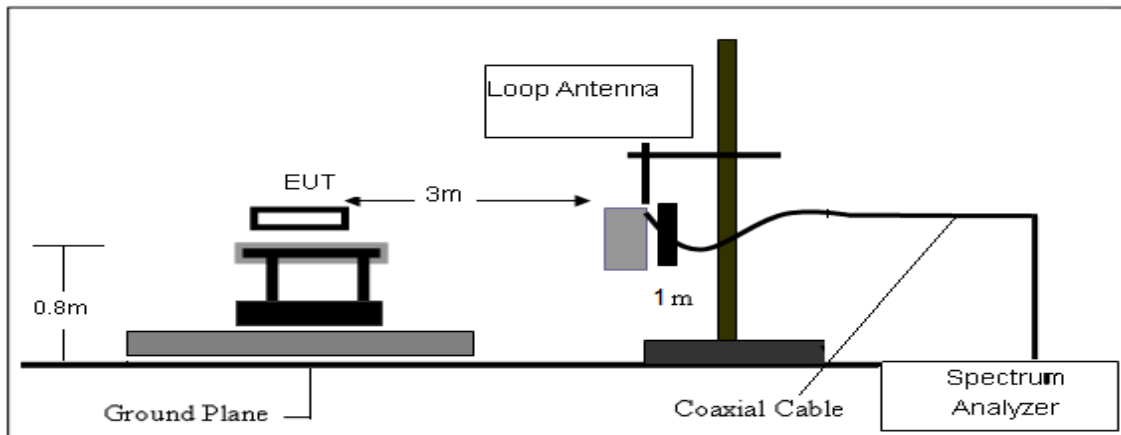
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

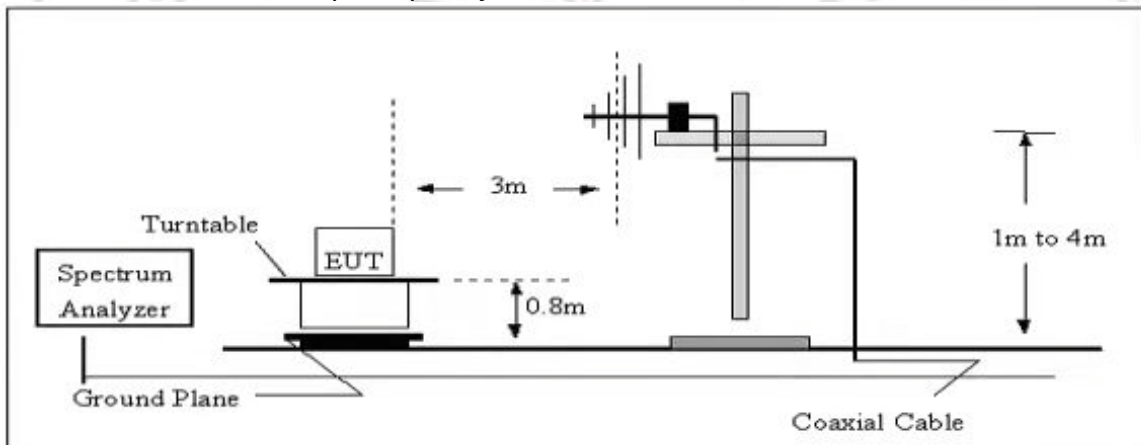
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

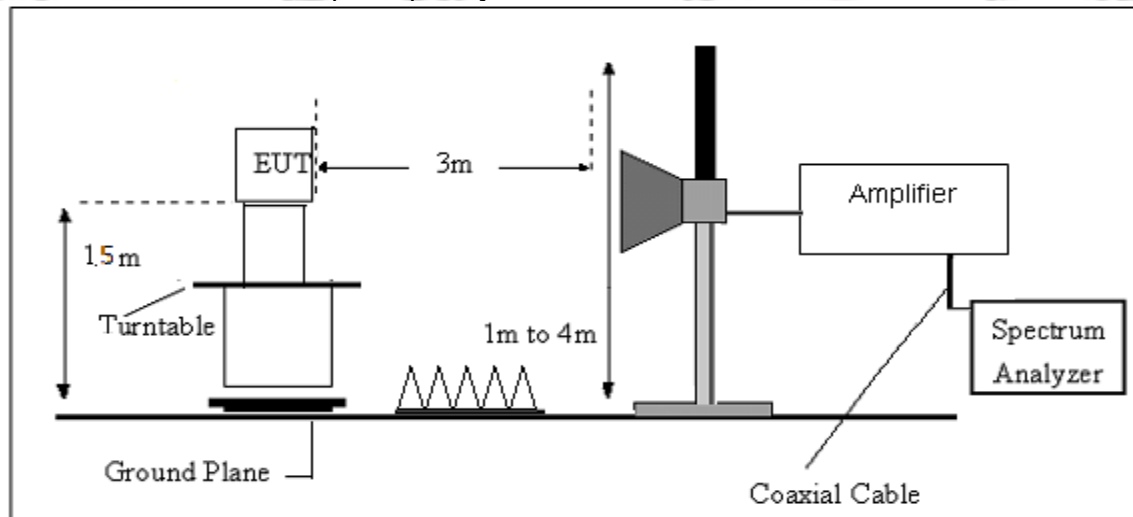
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

4.6 TEST RESULTS

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Polarization:	--
Test Mode:	TX Mode1/3		

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

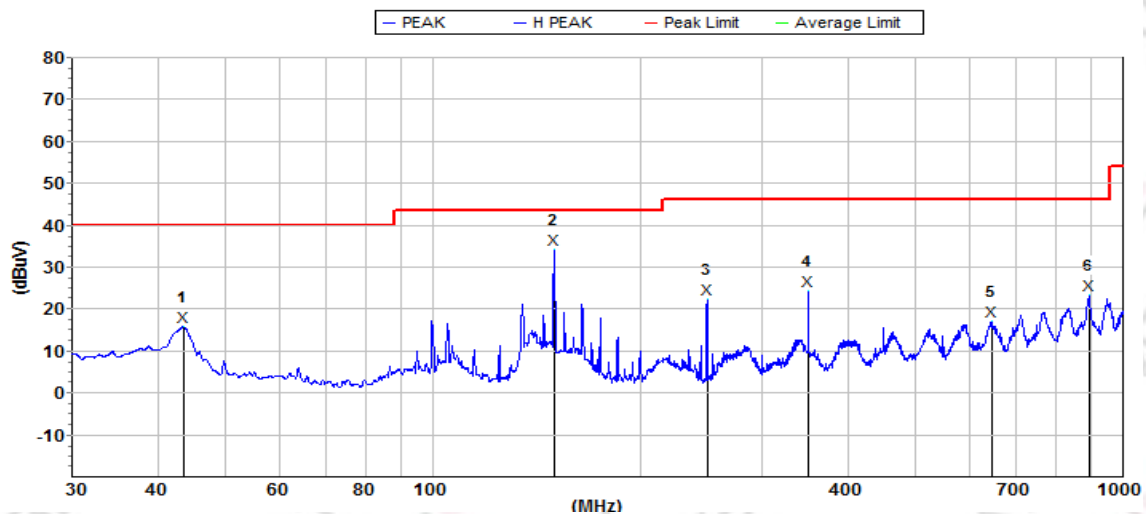
(30MHz -1000MHz)

Temperature:	23.3℃	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	TX Mode 1		

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 1 Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
1	43.505724	15.9	40.0	24.1	13.9	32.5	0.8	H
2	149.748044	34.3	43.5	9.2	14.1	32.9	1.3	H
3	249.862716	22.5	46.0	23.5	11.6	32.8	2.6	H
4	349.862839	24.3	46.0	21.7	13.4	32.5	2.7	H
5	645.119481	17.2	46.0	28.8	16.2	32.3	3.4	H
6	892.290853	23.3	46.0	22.7	19.6	31.7	3.6	H

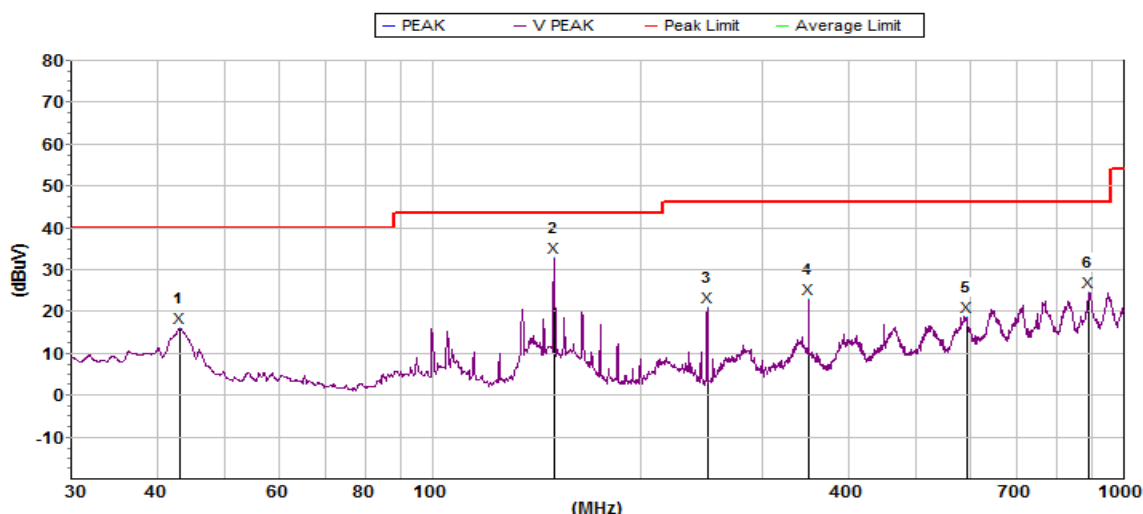
Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	TX Mode 1		

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit

2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 1 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dB uV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
1	43.050457	16.2	40.0	23.8	13.9	32.5	0.8	V
2	149.748044	32.9	43.5	10.6	14.1	32.9	1.3	V
3	249.862716	21.2	46.0	24.8	11.6	32.8	2.6	V
4	349.862839	23.0	46.0	23.0	13.8	32.5	2.7	V
5	592.010797	18.9	46.0	27.1	18.2	32.4	3.3	V
6	890.727788	24.8	46.0	21.2	21.5	31.7	3.6	V

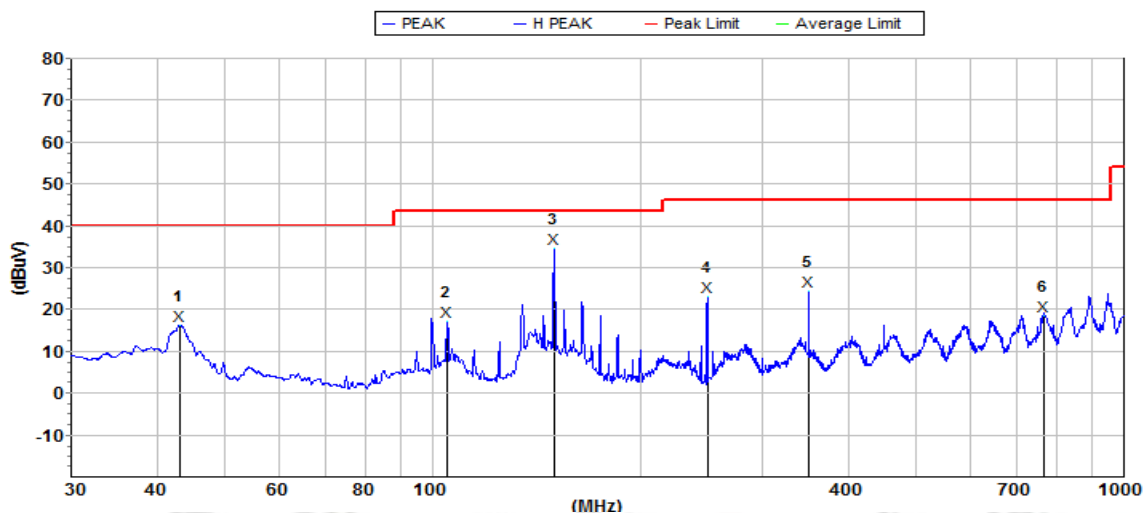
(30MHz -1000MHz)

Temperature:	23.3℃	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	TX Mode 3		

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 3 Horizontal



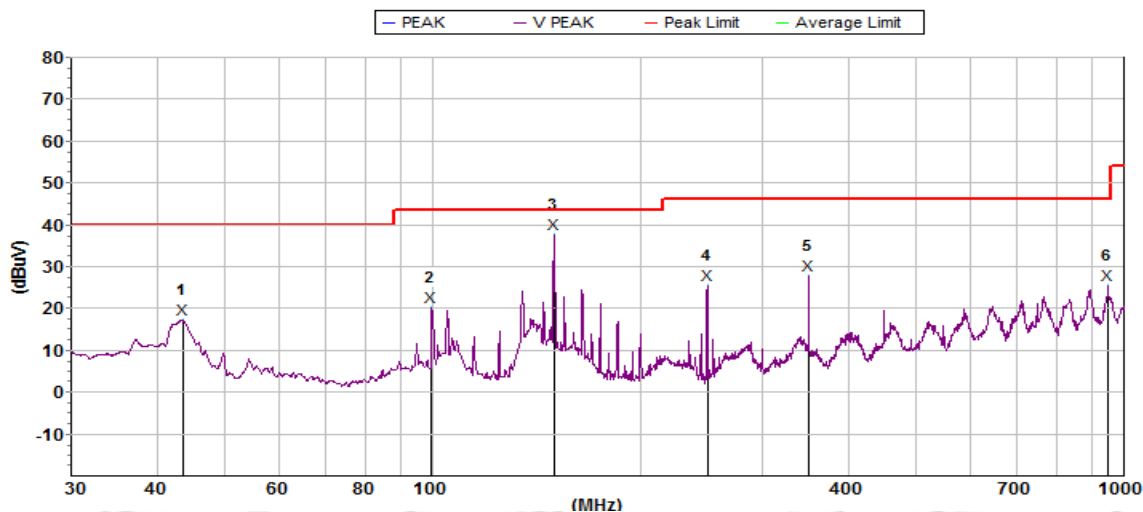
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
1	43.050457	16.3	40.0	23.7	13.9	32.5	0.8	H
2	105.087342	17.3	43.5	26.2	10.6	32.9	1.4	H
3	149.748044	34.6	43.5	8.9	14.1	32.9	1.3	H
4	249.862716	23.0	46.0	23.0	11.6	32.8	2.6	H
5	349.862839	24.5	46.0	21.5	13.4	32.5	2.7	H
6	764.715294	18.5	46.0	27.5	17.7	32.2	3.6	H

Temperature:	23.3℃	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	TX Mode 3		

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 3 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
1	43.505724	17.4	40.0	22.6	13.9	32.5	0.8	V
2	99.702770	20.6	43.5	22.9	10.1	32.9	1.4	V
3	149.748044	37.8	43.5	5.7	14.1	32.9	1.3	V
4	249.862716	25.7	46.0	20.3	11.6	32.8	2.6	V
5	349.862839	27.9	46.0	18.1	13.8	32.5	2.7	V
6	948.760988	25.7	46.0	20.3	22.1	31.3	3.7	V

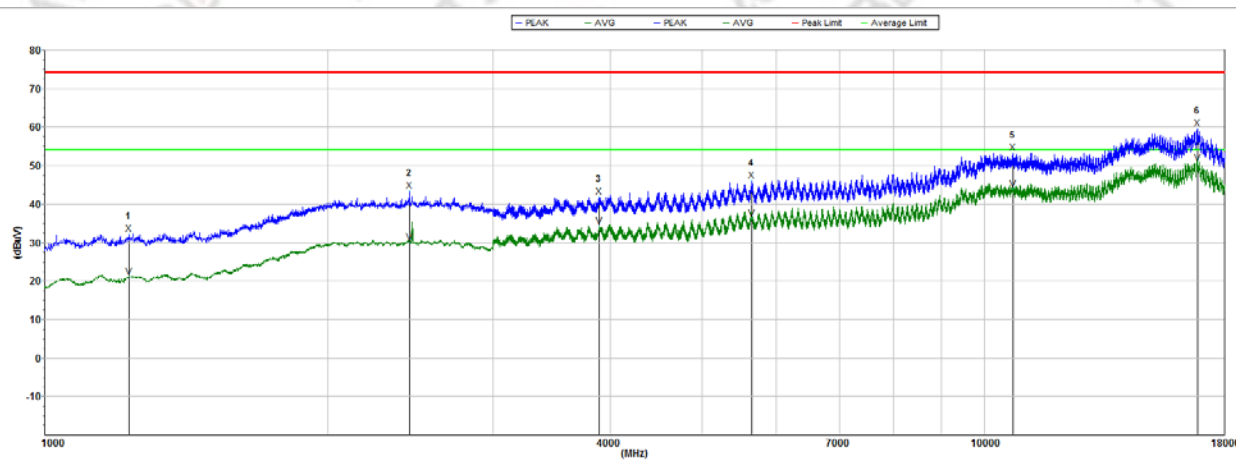
(30MHz -18000MHz)

Temperature:	23.3℃	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	TX Mode 1		

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 1 Horizontal



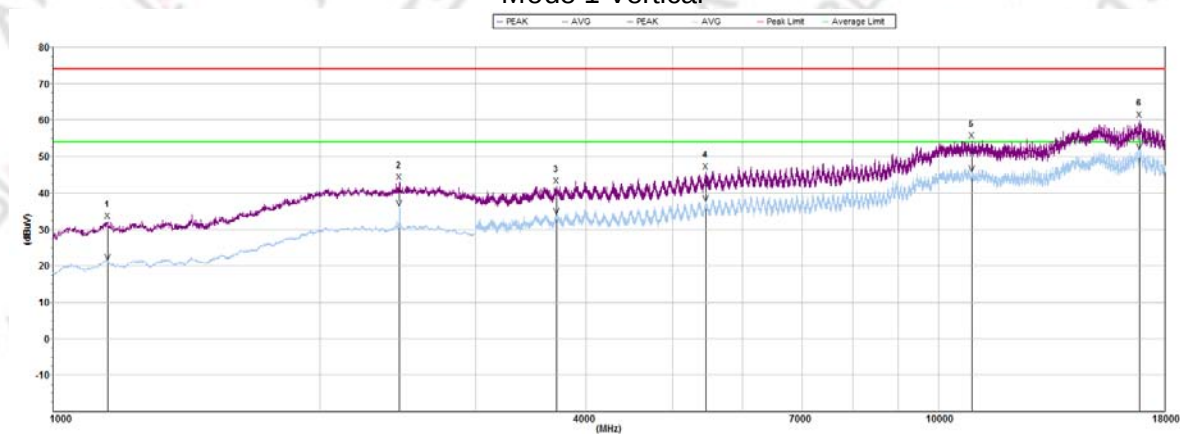
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	1230.000000	32.4	74.0	41.6	20.7	57.3	2.3	H
2	2444.000000	43.5	74.0	30.5	22.8	50.2	2.8	H
3	3891.750000	42.0	74.0	32.0	24.4	50.2	3.3	H
4	5649.000000	46.1	74.0	27.9	25.0	49.0	4.0	H
5	10721.250000	53.2	74.0	20.8	27.8	48.6	5.6	H
6	16839.750000	59.6	74.0	14.4	31.0	47.4	6.8	H
Avg								
1	1230.000000	21.2	54.0	32.8	20.7	57.3	2.3	H
2	2444.000000	30.1	54.0	23.9	22.8	50.2	2.8	H
3	3891.750000	34.3	54.0	19.7	24.4	50.2	3.3	H
4	5649.000000	36.3	54.0	17.7	25.0	49.0	4.0	H
5	10721.250000	43.9	54.0	10.1	27.8	48.6	5.6	H
6	16839.750000	50.6	54.0	3.4	31.0	47.4	6.8	H

Temperature:	23.3°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	TX Mode 1		

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 1 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	1154.000000	32.4	74.0	41.6	20.8	57.3	2.3	V
2	2460.000000	43.1	74.0	30.9	23.3	50.2	2.8	V
3	3702.750000	42.0	74.0	32.0	24.7	50.3	3.2	V
4	5453.250000	45.8	74.0	28.2	25.3	49.1	4.0	V
5	10904.250000	54.4	74.0	19.6	29.3	48.7	5.7	V
6	16837.500000	60.0	74.0	14.0	31.5	47.4	6.8	V
Avg								
1	1154.000000	21.0	54.0	33.0	20.8	57.3	2.3	V
2	2460.000000	35.8	54.0	18.2	23.3	50.2	2.8	V
3	3702.750000	33.7	54.0	20.3	24.7	50.3	3.2	V
4	5453.250000	37.2	54.0	16.8	25.3	49.1	4.0	V
5	10904.250000	45.2	54.0	8.8	29.3	48.7	5.7	V
6	16837.500000	51.3	54.0	2.7	31.5	47.4	6.8	V

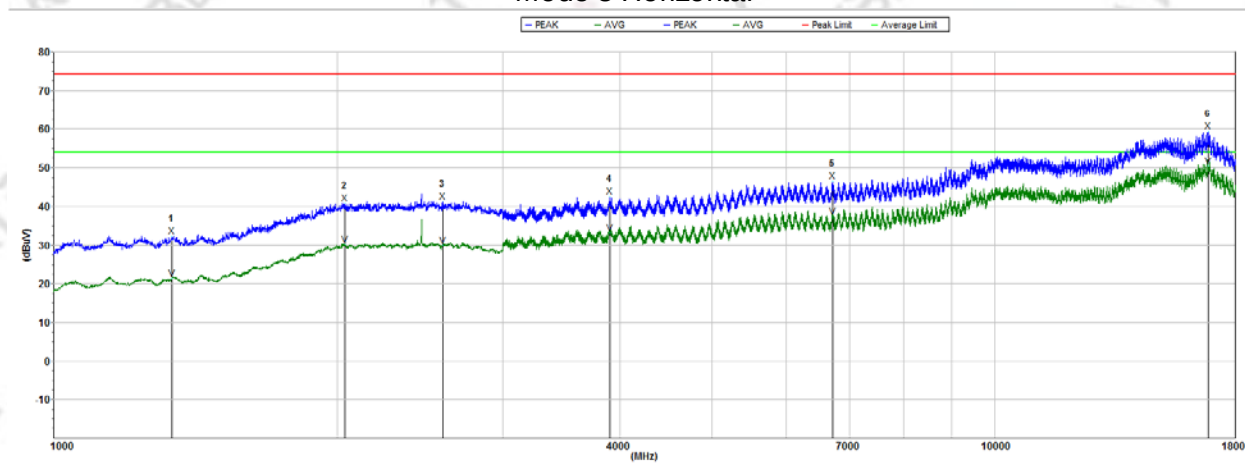
(30MHz -18000MHz)

Temperature:	23.3°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	TX Mode 3		

Remark:

- Margin = Result (Result =Reading + Factor)–Limit
- Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 3 Horizontal



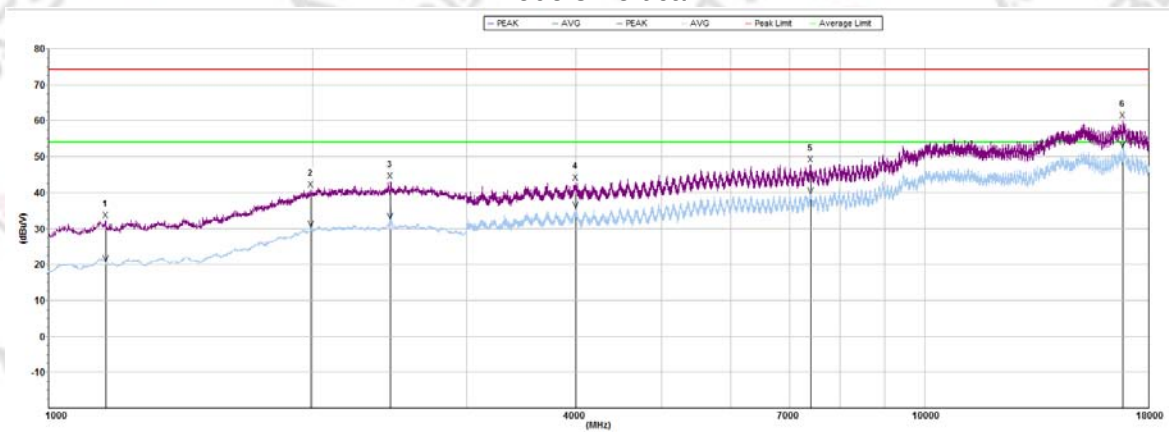
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	1336.000000	32.4	74.0	41.6	20.8	57.3	2.3	H
2	2037.000000	40.9	74.0	33.1	22.0	50.1	2.7	H
3	2589.000000	41.3	74.0	32.7	23.1	50.5	2.9	H
4	3900.750000	42.5	74.0	31.5	24.3	50.2	3.2	H
5	6724.500000	46.5	74.0	27.5	25.5	48.9	4.3	H
6	16848.000000	59.5	74.0	14.5	30.9	47.4	6.8	H
Avg								
1	1336.000000	21.4	54.0	32.6	20.8	57.3	2.3	H
2	2037.000000	30.2	54.0	23.8	22.0	50.1	2.7	H
3	2589.000000	29.8	54.0	24.2	23.1	50.5	2.9	H
4	3900.750000	33.1	54.0	20.9	24.3	50.2	3.2	H
5	6724.500000	37.3	54.0	16.7	25.5	48.9	4.3	H
6	16848.000000	50.4	54.0	3.6	30.9	47.4	6.8	H

Temperature:	23.3°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	TX Mode 3		

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

Mode 3 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dB uV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	1162.000000	32.3	74.0	41.7	20.8	57.3	2.2	V
2	1993.000000	40.9	74.0	33.1	22.1	50.2	2.7	V
3	2454.000000	43.2	74.0	30.8	23.3	50.2	2.8	V
4	3993.000000	42.7	74.0	31.3	24.8	50.1	3.3	V
5	7403.250000	47.9	74.0	26.1	26.5	48.8	4.6	V
6	16831.500000	60.1	74.0	13.9	31.4	47.4	6.8	V
Avg								
1	1162.000000	20.3	54.0	33.7	20.8	57.3	2.2	V
2	1993.000000	30.0	54.0	24.0	22.1	50.2	2.7	V
3	2454.000000	32.1	54.0	21.9	23.3	50.2	2.8	V
4	3993.000000	35.1	54.0	18.9	24.8	50.1	3.3	V
5	7403.250000	39.1	54.0	14.9	26.5	48.8	4.6	V
6	16831.500000	52.0	54.0	2.0	31.4	47.4	6.8	V

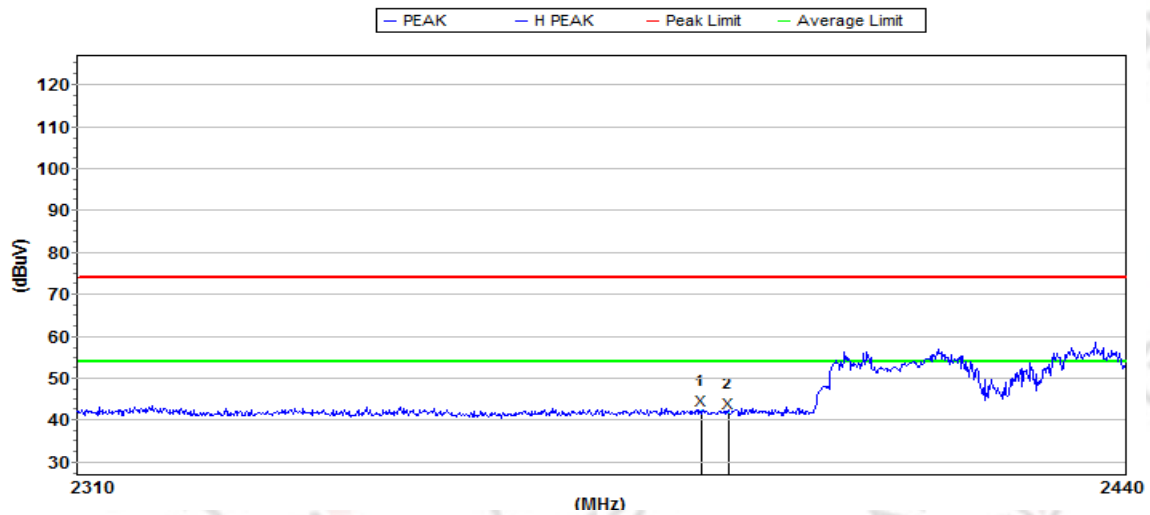
Note:

1.All TX Mode, the worst case is mode1&3, only show the worst case.

2.Other 18G-25G Emission detected are more than 20dB below the limit.

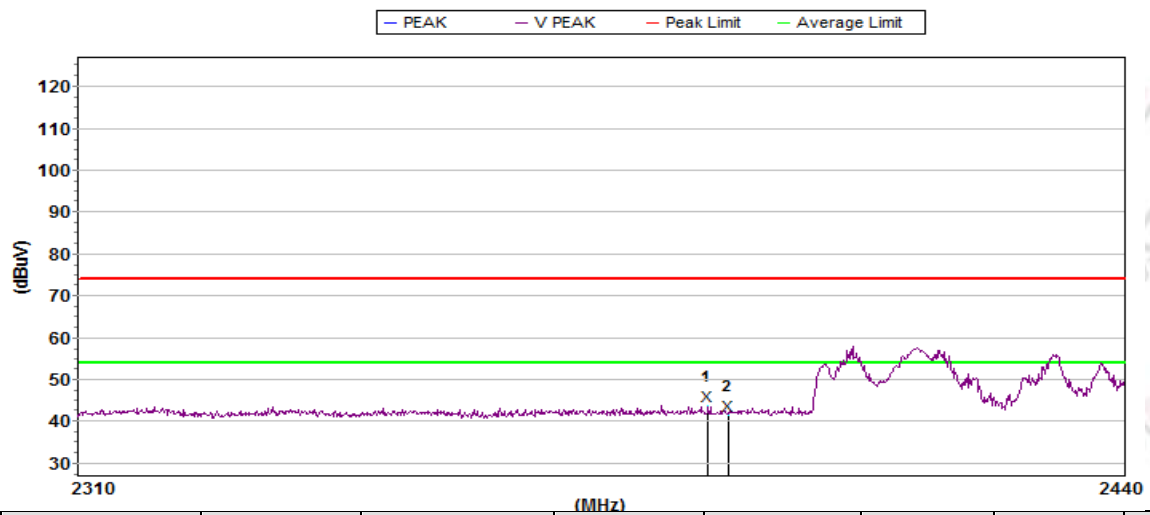
4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



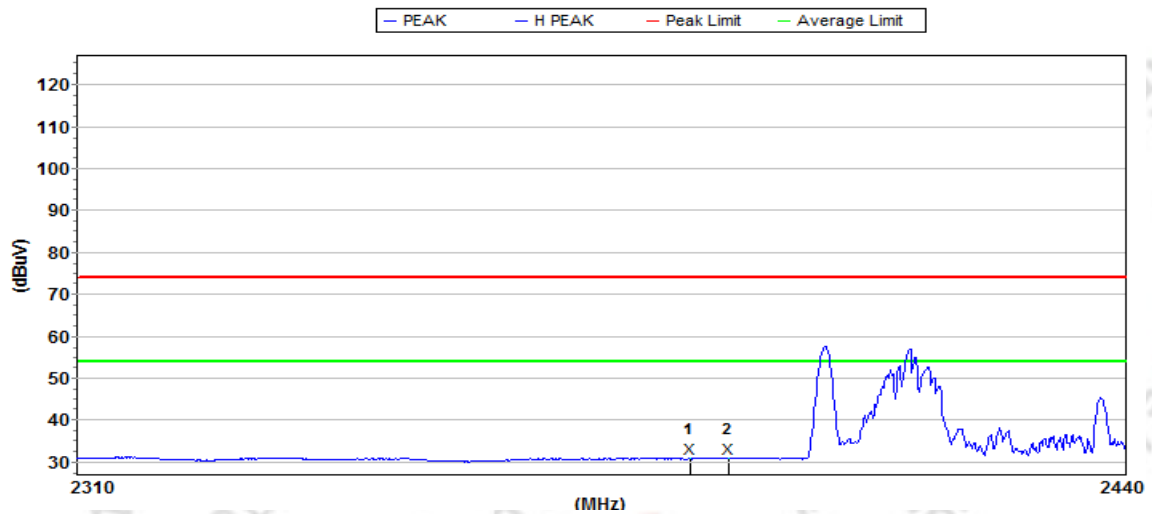
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2386.490987	42.5	74.0	31.5	22.8	50.2	2.8	H
2	2390.000000	41.7	74.0	32.3	22.8	50.2	2.8	H

Vertical



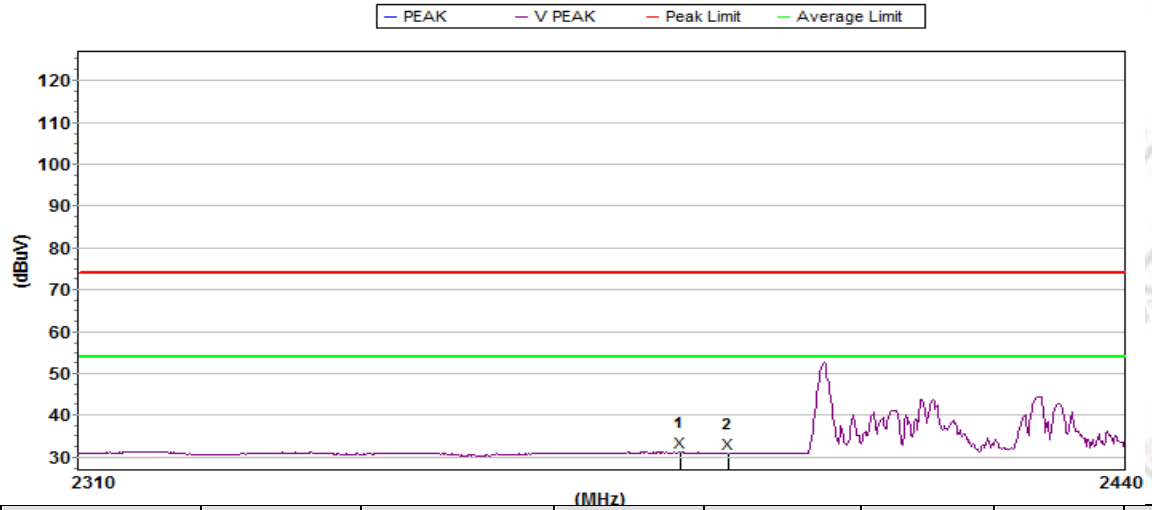
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2387.405794	43.7	74.0	30.3	23.1	50.2	2.8	V
2	2390.000000	41.4	74.0	32.6	23.1	50.2	2.8	V

GFSK-Low Horizontal



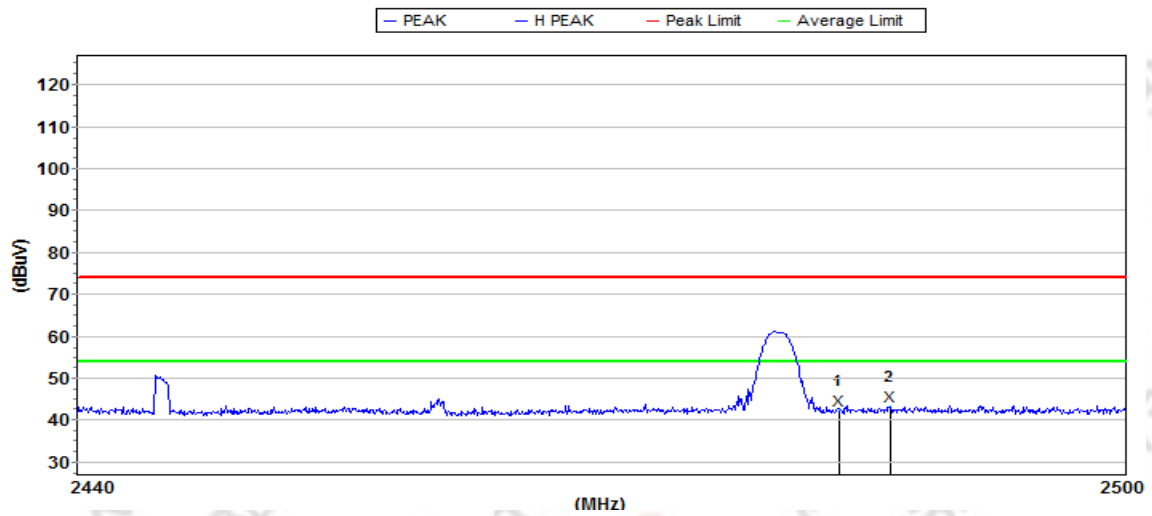
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2385.184729	30.9	54.0	23.1	22.7	50.2	2.8	H
2	2390.000000	30.9	54.0	23.1	22.8	50.2	2.8	H

Vertical



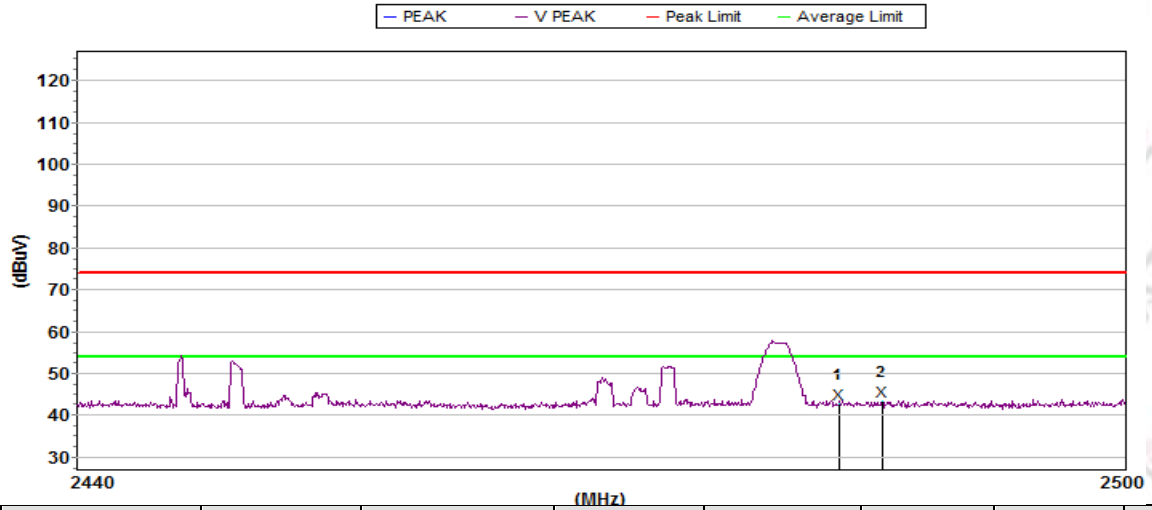
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2383.879185	31.4	54.0	22.6	23.1	50.2	2.8	V
2	2390.000000	31.1	54.0	22.9	23.1	50.2	2.8	V

GFSK-High Horizontal



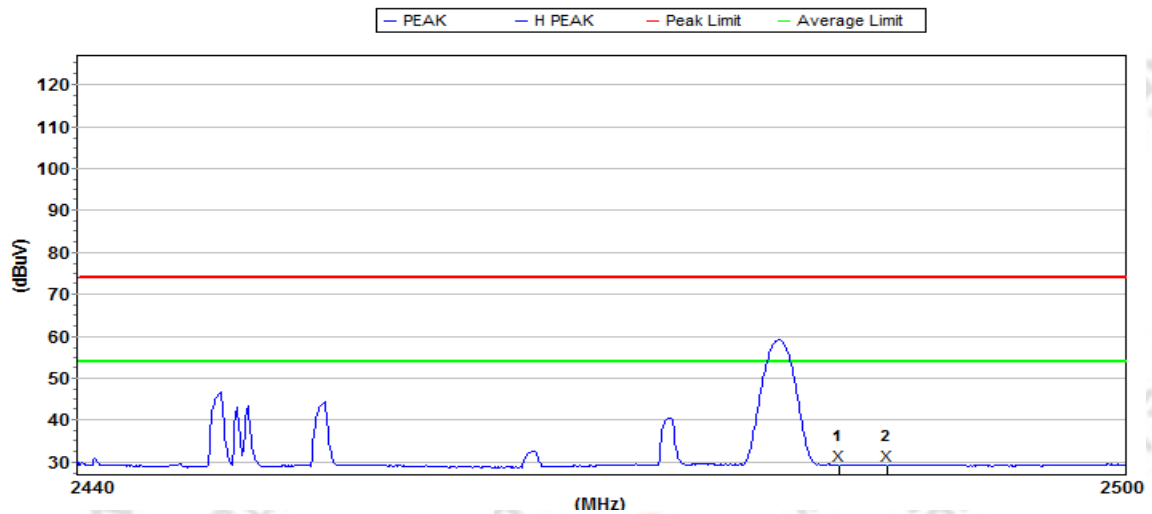
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2483.500000	42.6	74.0	31.4	22.9	50.2	2.8	H
2	2486.433038	43.4	74.0	30.6	22.9	50.2	2.8	H

Vertical



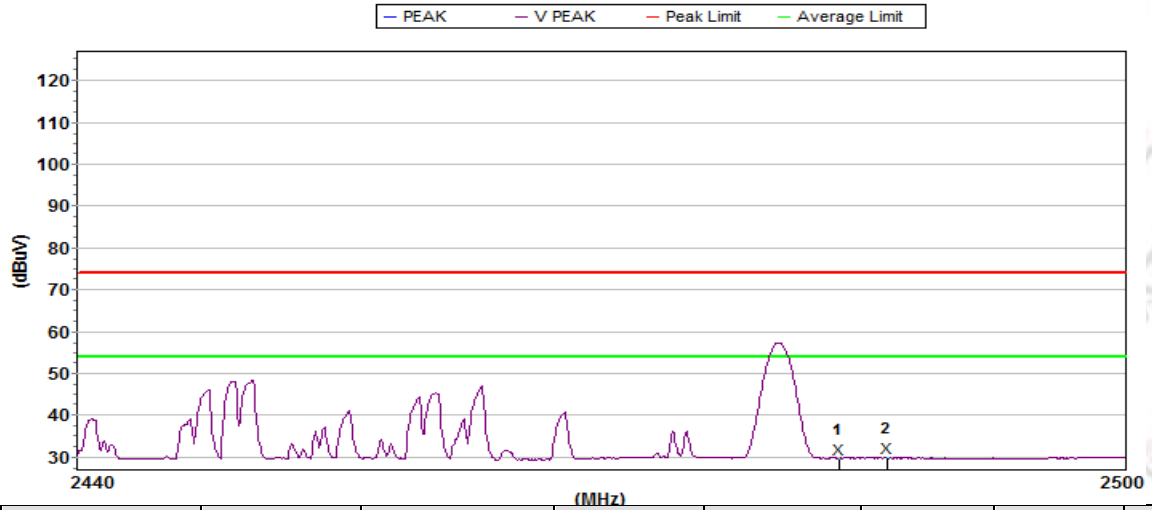
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2483.500000	42.8	74.0	31.2	23.3	50.2	2.8	V
2	2485.949868	43.3	74.0	30.7	23.3	50.2	2.8	V

GFSK- High Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.500000	29.3	54.0	24.7	22.9	50.2	2.8	H
2	2486.251839	29.4	54.0	24.6	22.9	50.2	2.8	H

Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.500000	29.7	54.0	24.3	23.3	50.2	2.8	V
2	2486.191442	29.9	54.0	24.1	23.3	50.2	2.8	V

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d)&RSS-247 Issue 2, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

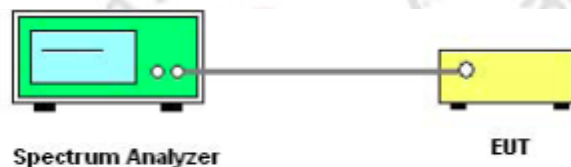
5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

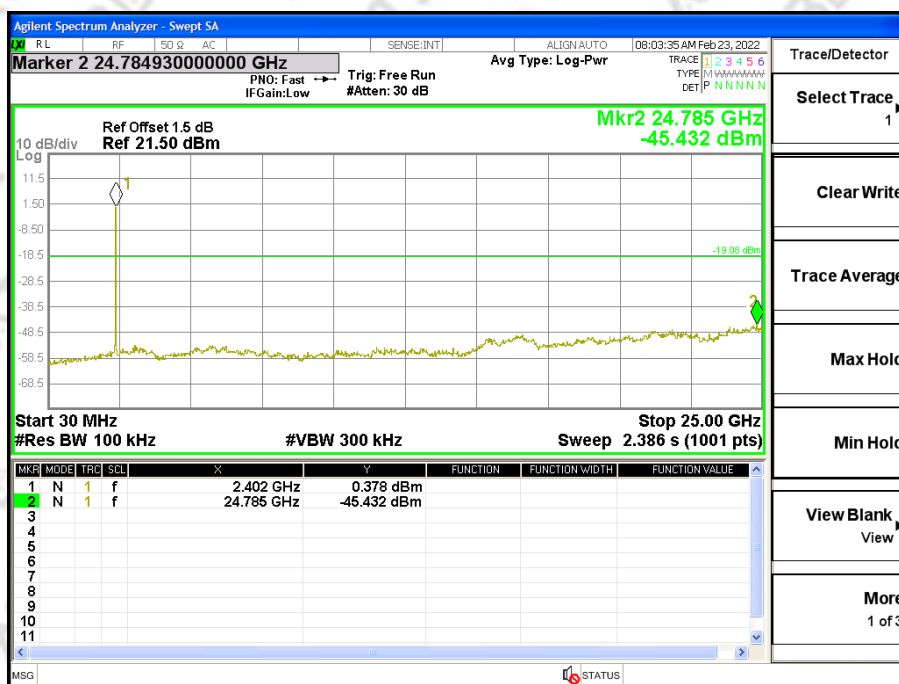
5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

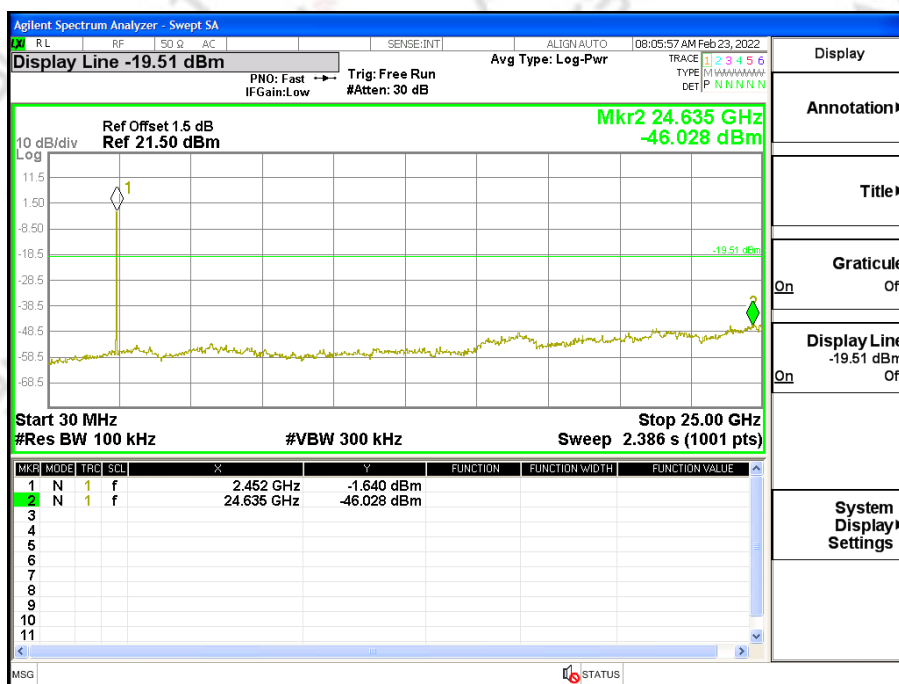
5.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	50%RH
Test Voltage:	AC120V	Test Mode:	TX Mode 1/2/3

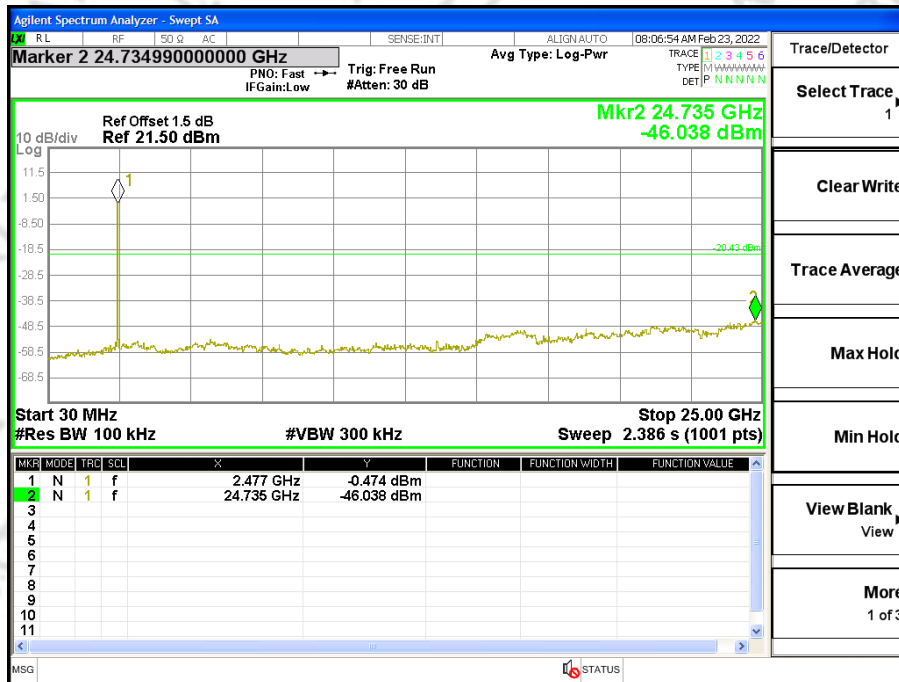
Mode1 CH00



Mode2 CH19

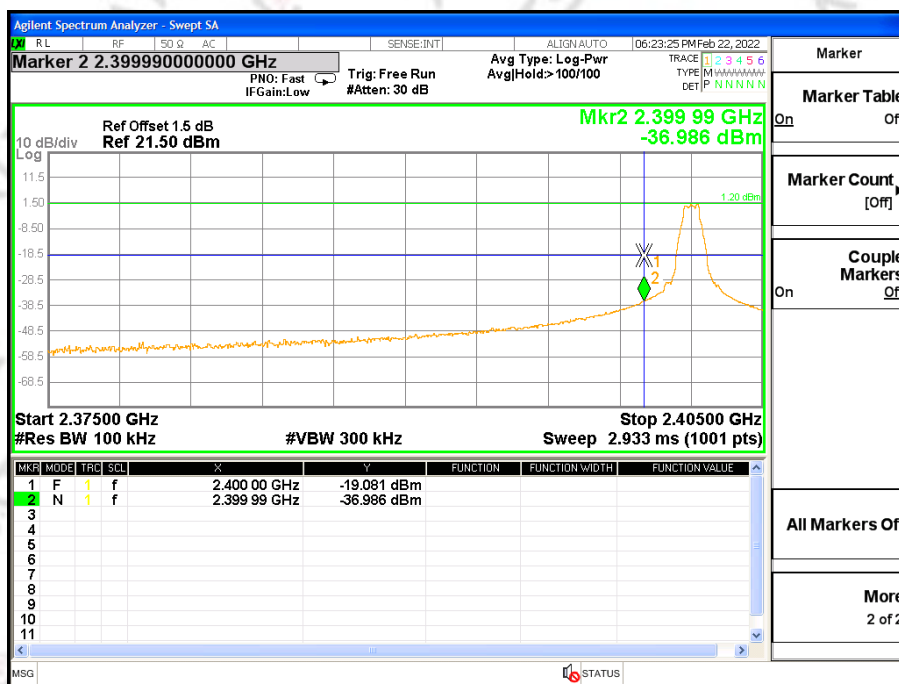


Mode3 CH39

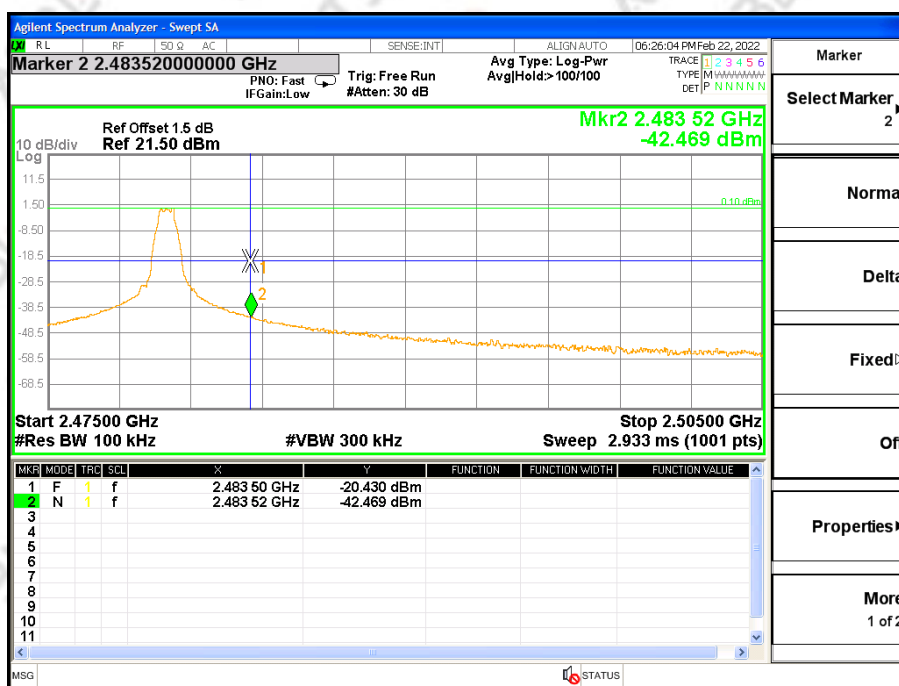


For Band edge(it's also the reference level for conducted spurious emission)

Mode1 CH00



Mode3 CH39



6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

RSS-247 Clause 5.2(b)				
Section	Test Item	Limit	Frequency Range (MHz)	Result
RSS-247 Clause 5.2(b)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $100\text{ kHz} \geq \text{RBW} \geq 3\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

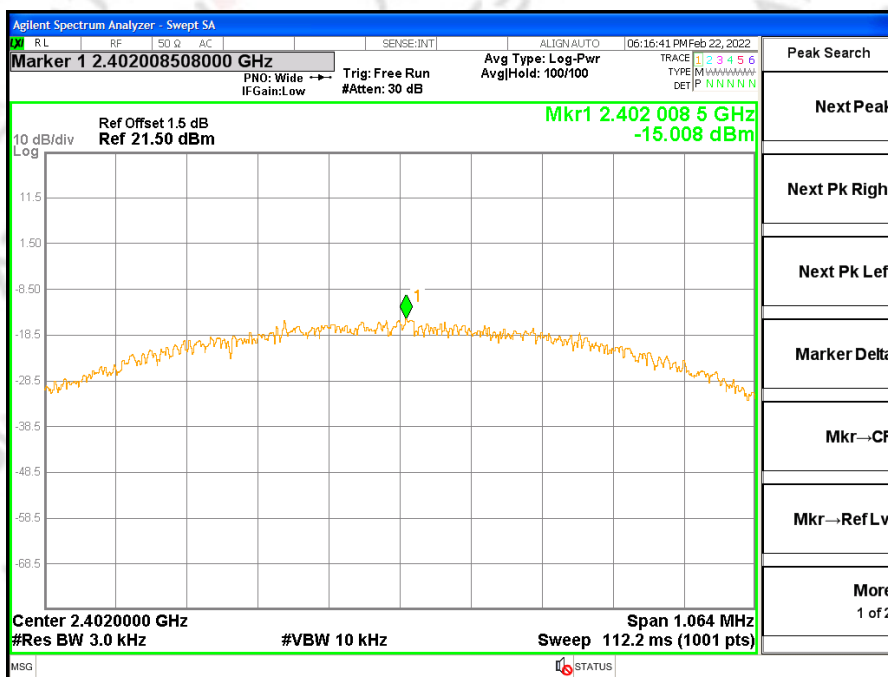
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.5 TEST RESULTS

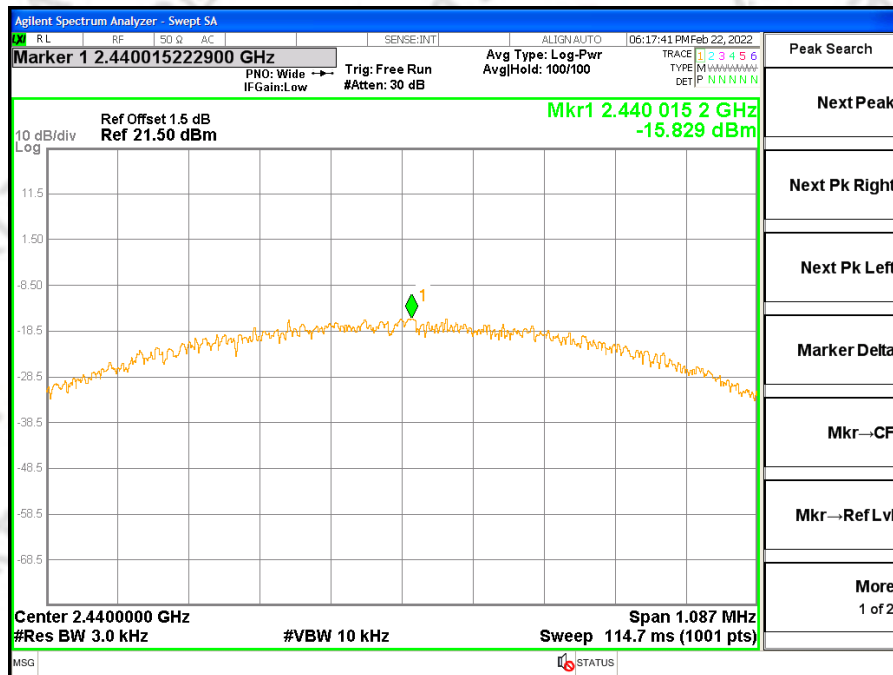
Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3

Frequency	Power Density	Limit (3KHz/dBm)	Result
	(dBm/3kHz)		
2402 MHz	-15.008	≤8	PASS
2440 MHz	-15.829	≤8	PASS
2480 MHz	-15.579	≤8	PASS

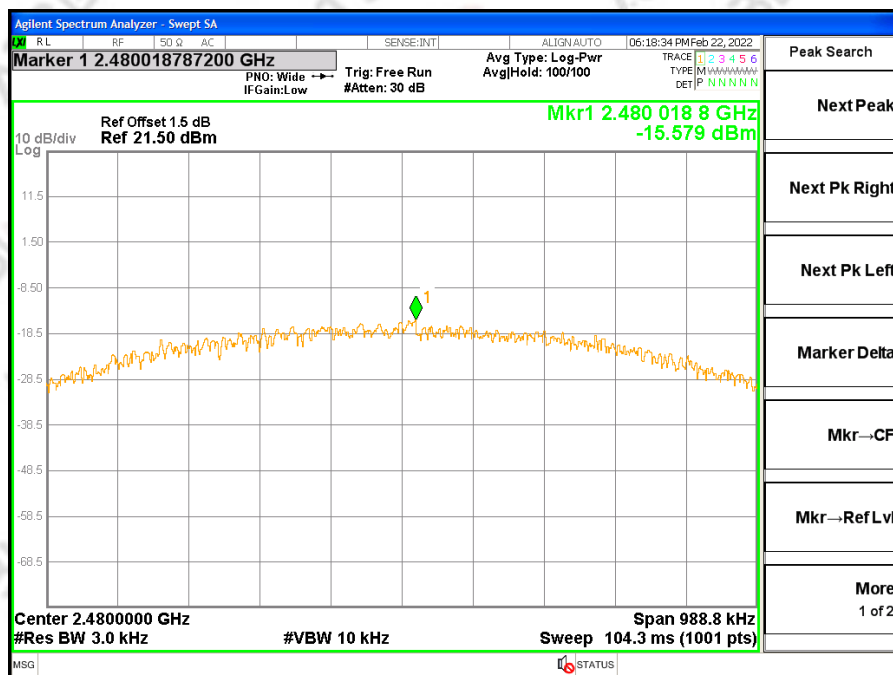
Mode1 CH00



Mode2 CH19



Mode3 CH39



7. BANDWIDTH TEST

7.1 LIMIT

RSS-Gen Clause 6.7				
Section	Test Item	Limit	Frequency Range (MHz)	Result
RSS-247 Clause 5.2(a)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS
RSS-Gen Clause 6.7	99% Bandwidth	For reporting purposes only.	2400-2483.5	PASS

7.2 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	For 6 dB Bandwidth :100KHz For 99% Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : $\geq 3 \times \text{RBW}$ For 99% Bandwidth : approximately $3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto

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 6 dB and 99% relative to the maximum level measured in the fundamental emission.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

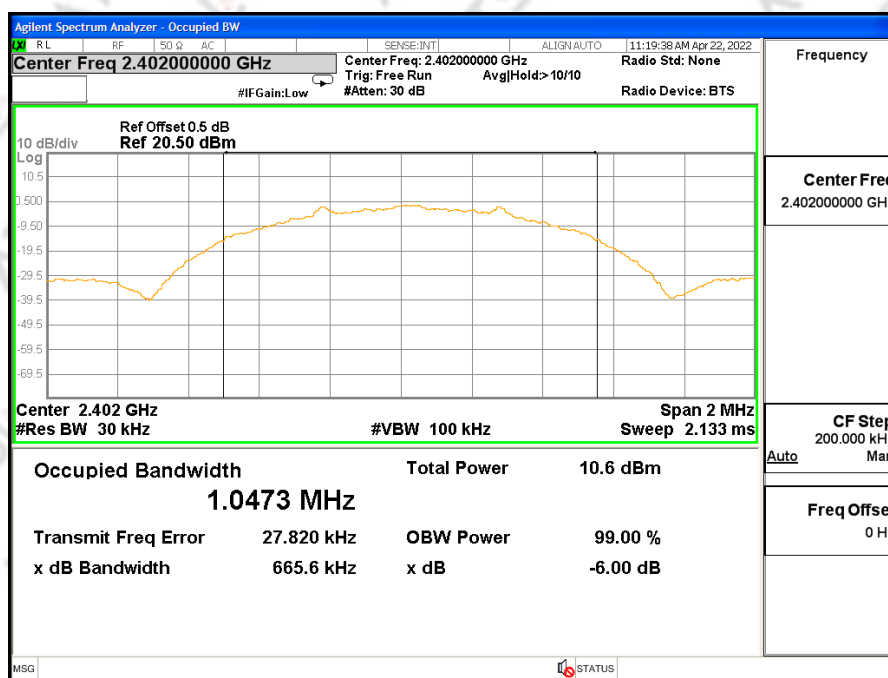
7.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3

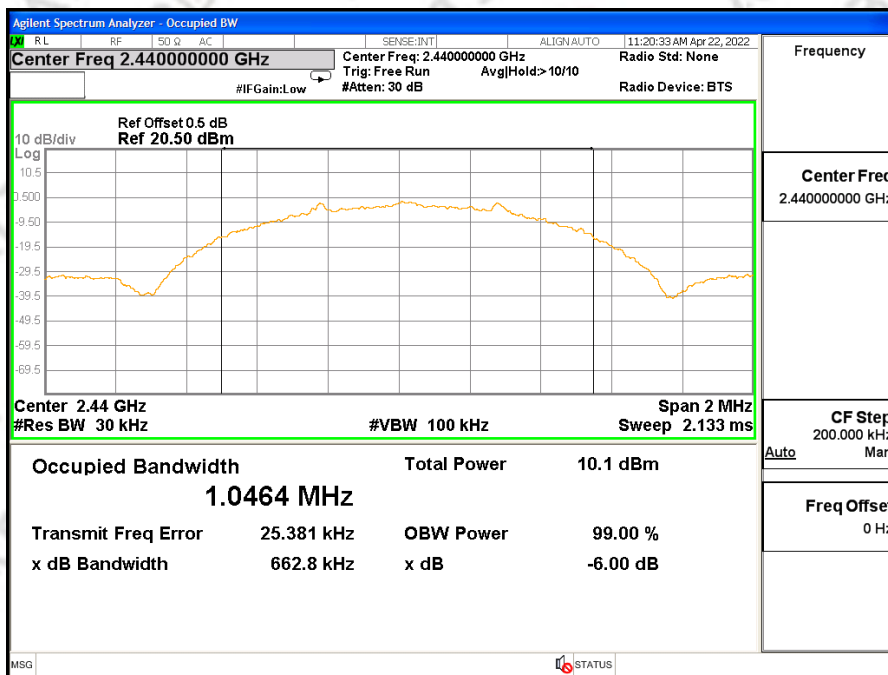
Frequency	6dB Bandwidth (KHz)	99% Bandwidth (KHz)	6dB Bandwidth Limit(KHz)	Result
2402 MHz	665.6	1047.3	≥500KHz	PASS
2440 MHz	662.8	1046.4	≥500KHz	PASS
2480 MHz	666.1	1052.2	≥500KHz	PASS

6dB Bandwidth & 99% Bandwidth

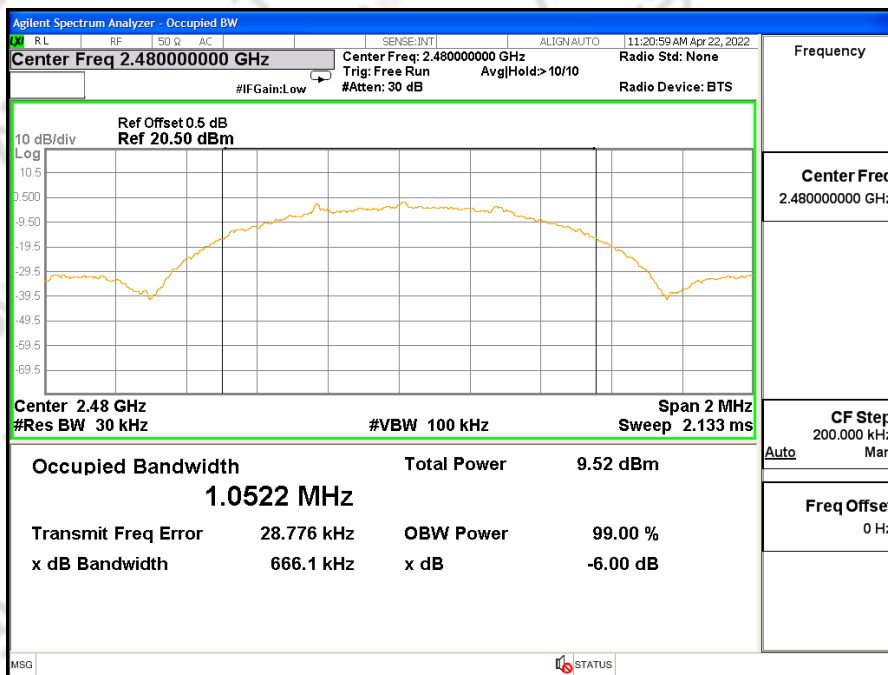
Mode1 CH00



Mode2 CH19



Mode3 CH39



8. PEAK OUTPUT POWER TEST

8.1 LIMIT

RSS-247 Clause 5.4(d)				
Section	Test Item	Limit	Frequency Range (MHz)	Result
RSS-247 Clause 5.4(d)	Output Power	1 watt or 30dBm	2400-2483.5	PASS
RSS-247	EIRP	4W	2400-2483.5	PASS

8.2 TEST PROCEDURE

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3

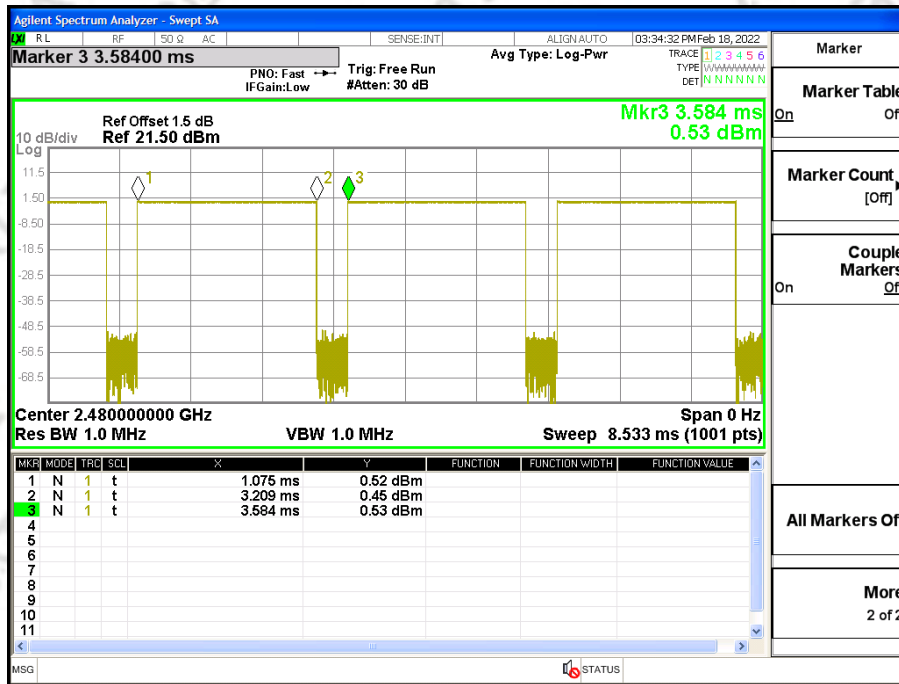
Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH00	2402	0.68	0.60	30
CH19	2440	0.57	0.56	30
CH39	2480	0.24	0.14	30

EIRP Power

Test Channel	Frequency	Peak Conducted Output Power	Antenna Gain	EIRP Power	LIMIT
	(MHz)	(dBm)	(dBi)	(dBm)	dBm
CH0	2402	0.68	5	5.68	36
CH19	2440	0.57	5	5.57	36
CH39	2480	0.24	5	5.24	36

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

Duty cycle



Ton	Tp	Duty cycle(%)	Duty factor(dB)
2.134	2.509	85.05	0.70

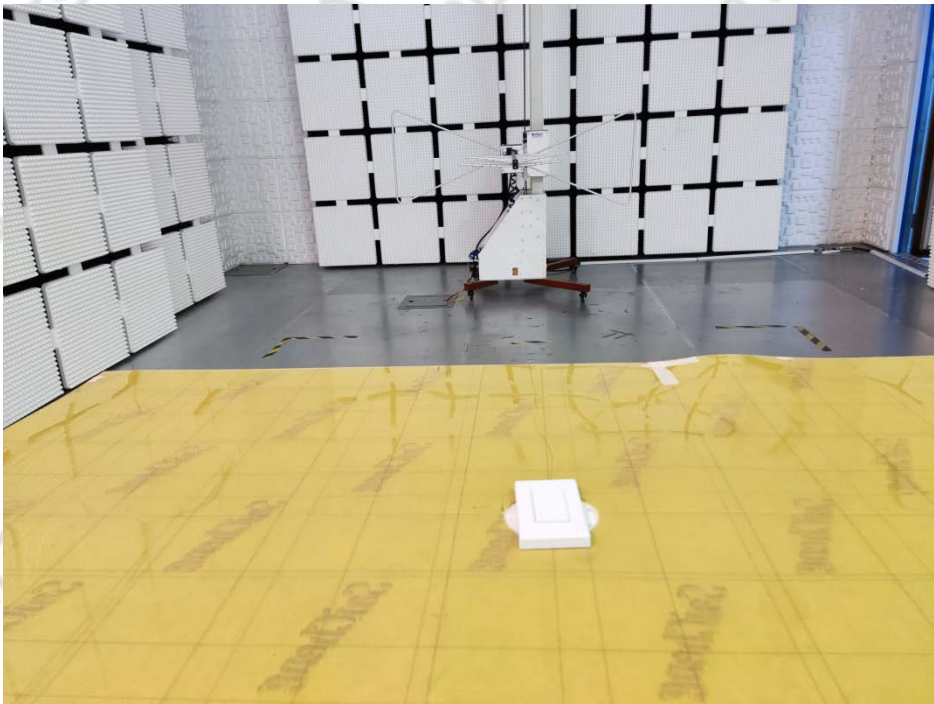
9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

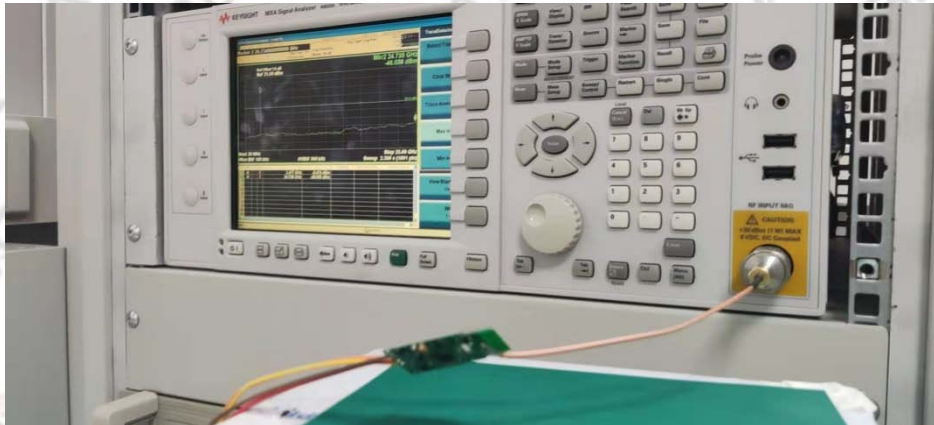
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT ANTENNA

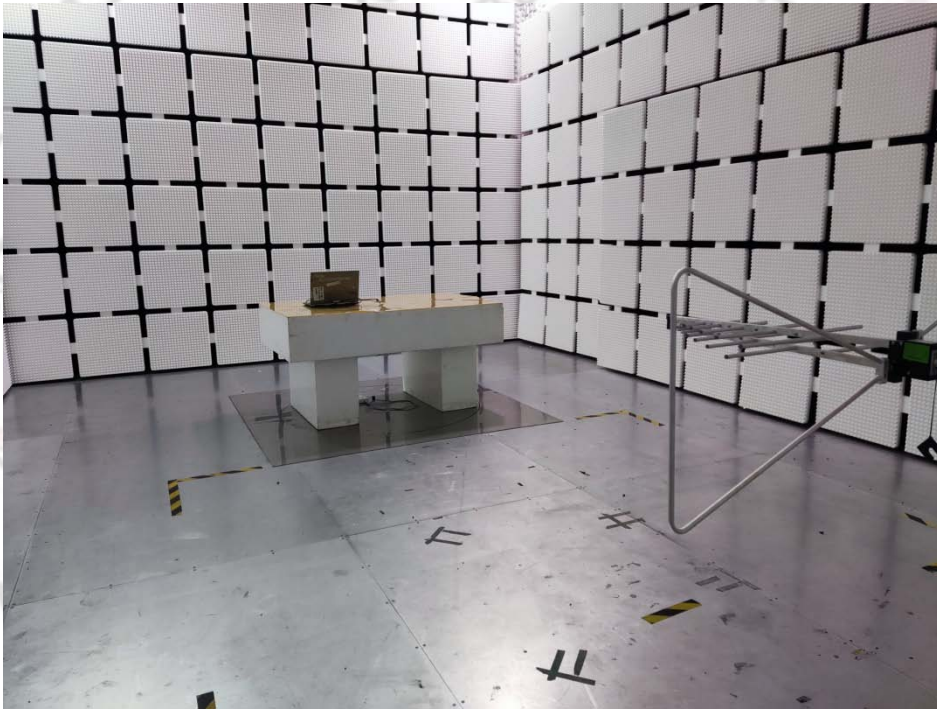
The EUT antenna is PCB print Antenna. It comply with the standard requirement.

APPENDIX-PHOTOS OF TEST SETUP**Conduction****Radiation emission
30MHz-1GHz**

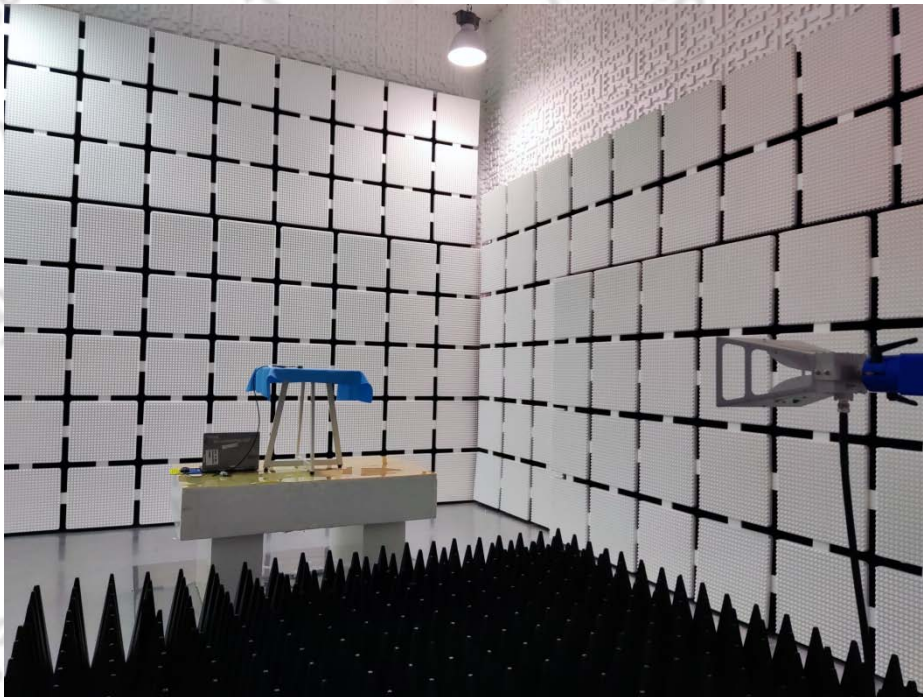
Conducted



RSE 30MHz-1000MHz



RSE 1GHz-18GHz



*****END OF THE REPORT*****