FCC Part 15C Test Report

FCC ID: RWE-4NPHL

Product Name:	Essential oil diffuser/Humidifier
Trademark:	N/A
Model Name :	4NPHLM0000010 NPHLM, SJ-05X(X=A ~ J), SJ-07X(X=A ~ J), SJA-11X(X=A ~ J), SJA-12X(X=A ~ J), SJA-13X(X=A ~ J), SJA-15X(X=A ~ J), SJA-16X(X=A ~ J), SJA-18X(X=A ~ J), SJA-19X(X=A ~ J), SJA-20X(X=A ~ J)
Prepared For : Address :	Shenzhen Forrinx Electronics Co., Ltd. Building 9, No.18, North Area of Makan Industrial Park, Xili Town, Nanshan District, Shenzhen 518055, China
Prepared By : Address :	Shenzhen BCTC Testing Co., Ltd. BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Dec. 23, 2018 – Dec. 26, 2018
Date of Report :	Dec. 26, 2018
Report No.:	BCTC-FY181206788E

TEST RESULT CERTIFICATION

Applicant's name ..... : Shenzhen Forrinx Electronics Co., Ltd.
Address ..... : Building 9, No.18, North Area of Makan Industrial Park, Xili Town, Nanshan District, Shenzhen 518055, China
Manufacture's Name..... : Shenzhen Forrinx Electronics Co., Ltd.
Address ..... : Building 9, No.18, North Area of Makan Industrial Park, Xili Town, Nanshan District, Shenzhen 518055, China

Product description

Product name ..... : Essential oil diffuser/Humidifier
Trademark ..... : N/A

Model and/or type reference : 4NPHLM0000010
NPHLM, SJ-05X(X=A ~ J), SJ-07X(X=A ~ J), SJA-11X(X=A ~ J), SJA-12X(X=A ~ J), SJA-13X(X=A ~ J), SJA-15X(X=A ~ J), SJA-16X(X=A ~ J), SJA-18X(X=A ~ J), SJA-19X(X=A ~ J), SJA-20X(X=A ~ J)

Standards ..... : FCC Part15.247
ANSI C63.10:2013

This device described above has been tested by BCTC, 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.

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Prepared by(Engineer):	Leke Xie	Leke Xie
Reviewer(Supervisor):	Eric Yang	Eric Yang
Approved(Manager):	Carson Zhang	Carson Zhang

倍测检测 BCTC APPROVED SHENZHEN BCTC TESTING CO., LTD.

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APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (d)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted Band of Operation	PASS	
15.247 (d)	Band Edge (Out of Band Emissions)	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen BCTC Testing Co., Ltd.
Add. : BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
FCC Test Firm Registration Number: 712850
IC Registered No.: 23583

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended 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	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃
9	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
10	Radiated disturbance(1GHz-6GHz)	U=4.9dB
11	Radiated disturbance(1GHz-18GHz)	U=5.0dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Essential oil diffuser/Humidifier</td></tr>
<tr><td>Trade Name</td><td>N/A</td></tr>
<tr><td>Model Name</td><td>4NPHLM0000010
NPHLM, SJ-05X(X=A～J), SJ-07X(X=A～J), SJA-11X(X=A～J), SJA-12X(X=A～J), SJA-13X(X=A～J), SJA-15X(X=A～J), SJA-16X(X=A～J), SJA-18X(X=A～J), SJA-19X(X=A～J), SJA-20X(X=A～J)</td></tr>
<tr><td>Model Difference</td><td>Only for different Model name.</td></tr>
<tr><td>Product Description</td><td>
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n20MHz:2412~2462 MHz</td></tr>
<tr><td>Modulation Type:</td><td>WIFI: OFDM/DSSS</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps
802.11n Up to 75Mbps</td></tr>
<tr><td>Number Of Channel</td><td>802.11b/g/n20MHz:11 CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Power</td><td>MODEL: MX15W-2400650UX
INPUT: 100-240V~0.4A 50-60Hz
OUTPUT: 24V 650mA</td></tr>
<tr><td>hardware version</td><td>N/A</td></tr>
<tr><td>Software version</td><td>N/A</td></tr>
<tr><td>Serial number</td><td>N/A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

Note:

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

2.

Channel List for 802.11b/g/n(20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	1.0	

2.2 DESCRIPTION OF TEST MODES

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

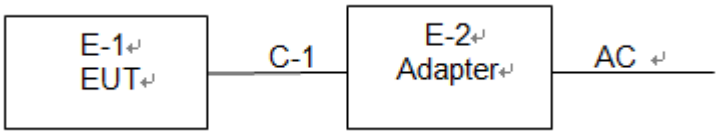
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11

Note:

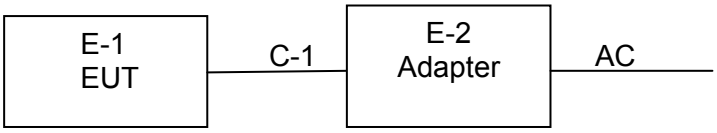
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Spurious emissions



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Essential oil diffuser/Humidifier	N/A	4NPHLM0000010	N/A	EUT
E-2	Adapter	N/A	MX15W-2400650UX	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.1M	DC cable unshielded

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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45109572	2018.06.20	2019.06.20
2	Test Receiver (9kHz-7GHz)	R&S	ESRP	101154	2018.06.20	2019.06.20
3	Bilog Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	VULB9163-942	2018.06.23	2019.06.23
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1541	2018.06.23	2021.06.22
5	Horn Antenna (18GHz-40GHz)	SCHWARZBECK	BBHA9170	822	2017.08.06	2018.08.06
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2018.06.20	2019.06.20
7	Amplifier (0.5GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2018.06.20	2019.06.20
8	Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	2018.08.06	2019.08.06
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	014	2018.06.23	2019.06.23
10	RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	2018.02.12	2019.02.12
11	RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	2018.03.27	2019.03.27
12	RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	2018.06.19	2019.06.19
13	Power Metter	Keysight	E4419	\	2018.04.15	2019.04.15
14	Power Sensor (AV)	Keysight	E9 300A	\	2018.04.15	2019.04.15
15	Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY49100060	2018.08.14	2019.08.13
16	Test Receiver 9kHz-40GHz	R&S	FSP40	100550	2018.06.13	2019.06.12
17	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
18	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESR3	102075	2018.06.20	2019.06.20
2	LISN	SCHWARZBECK	NSLK8127	8127739	2018.06.19	2019.06.19
3	LISN	R&S	ENV216	101375	2018.06.20	2019.06.20
4	RF cables	Huber+Suhnar	9kHz-30MHz	B1702988-0008	2018.02.12	2019.02.12
5	Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

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

3.1.2 TEST PROCEDURE

a. 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 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. 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.

c. 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.

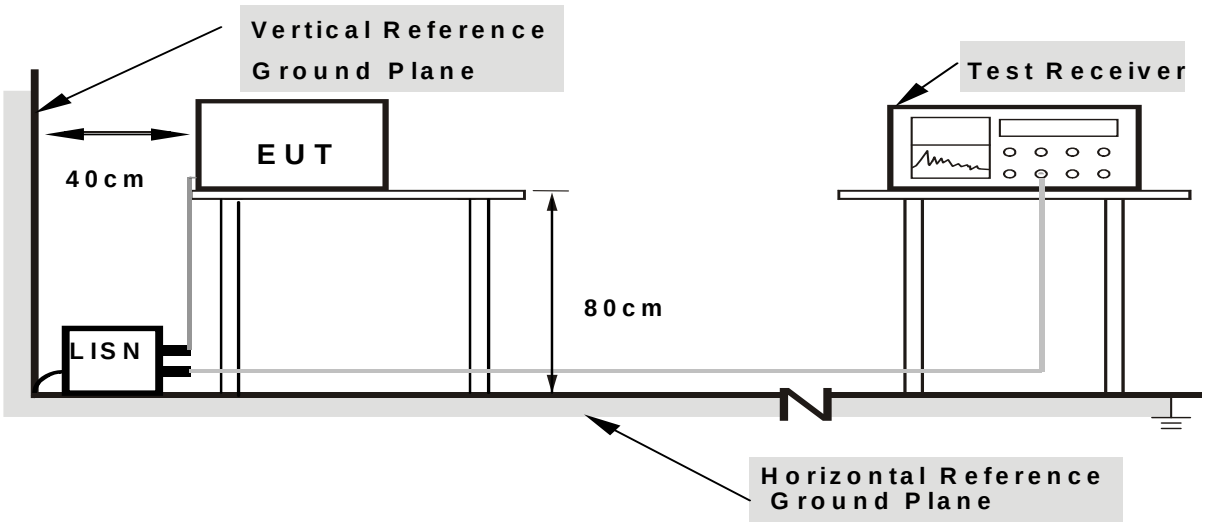
d. LISN at least 80 cm from nearest part of EUT chassis.

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

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

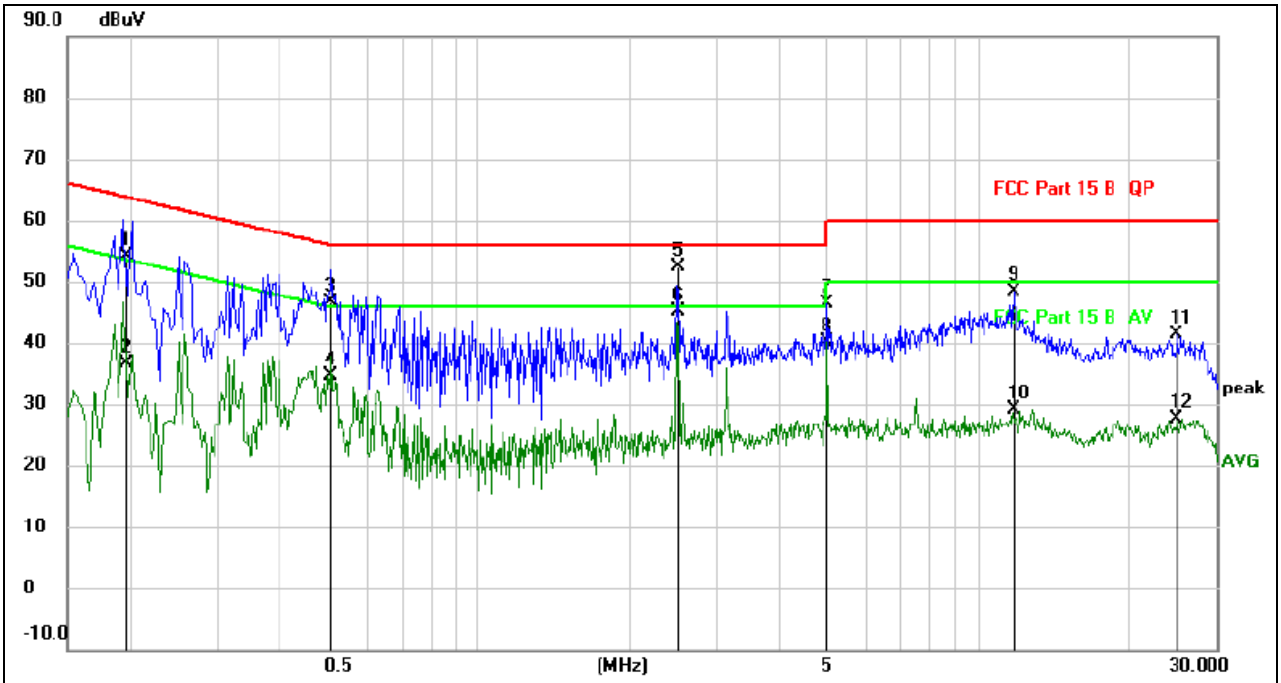
3.1.5 EUT OPERATING CONDITIONS

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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

3.1.6 TEST RESULTS

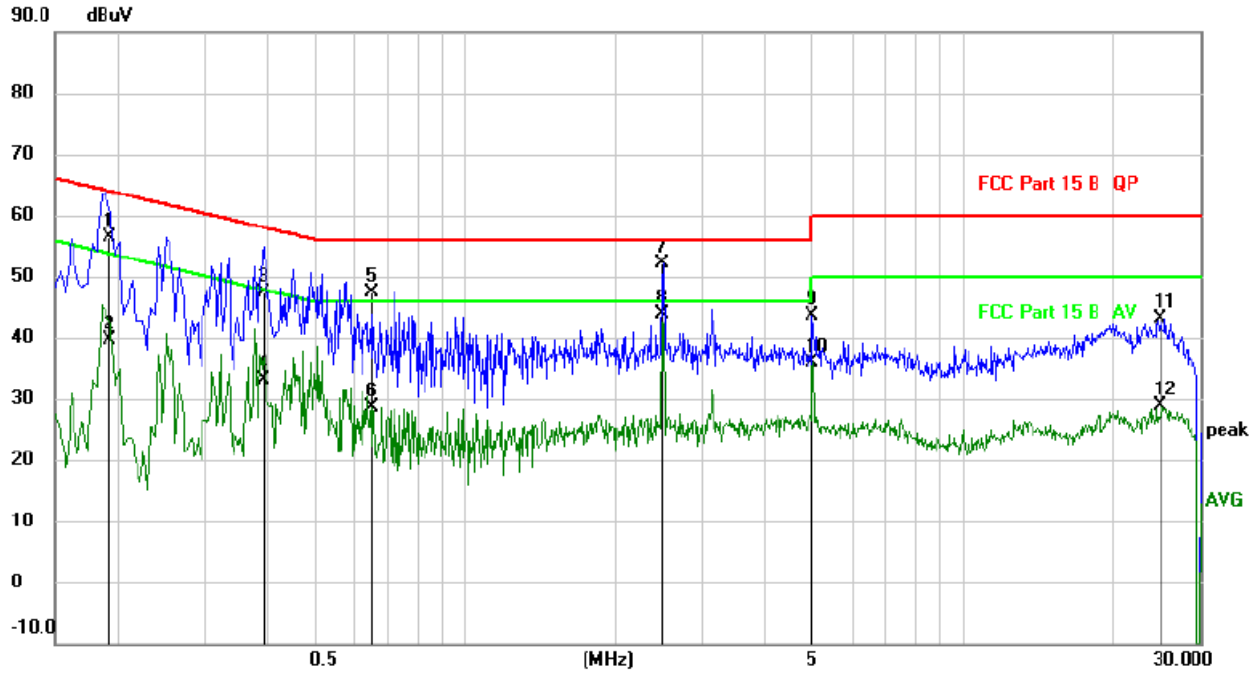
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.1970	44.64	9.46	54.10	63.74	-9.64	QP	
2		0.1970	27.23	9.46	36.69	53.74	-17.05	AVG	
3		0.5030	37.06	9.60	46.66	56.00	-9.34	QP	
4		0.5030	24.96	9.60	34.56	46.00	-11.44	AVG	
5		2.5059	42.81	9.63	52.44	56.00	-3.56	QP	
6	*	2.5059	35.56	9.63	45.19	46.00	-0.81	AVG	
7		4.9939	36.50	9.80	46.30	56.00	-9.70	QP	
8		4.9939	30.27	9.80	40.07	46.00	-5.93	AVG	
9		11.7900	38.67	9.69	48.36	60.00	-11.64	QP	
10		11.7900	19.35	9.69	29.04	50.00	-20.96	AVG	
11		24.9380	31.73	9.75	41.48	60.00	-18.52	QP	
12		24.9380	17.99	9.75	27.74	50.00	-22.26	AVG	

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.1930	46.85	9.47	56.32	63.91	-7.59	QP	
2		0.1930	30.09	9.47	39.56	53.91	-14.35	AVG	
3		0.3950	37.80	9.50	47.30	57.96	-10.66	QP	
4		0.3950	23.58	9.50	33.08	47.96	-14.88	AVG	
5		0.6540	37.51	9.81	47.32	56.00	-8.68	QP	
6		0.6540	18.73	9.81	28.54	46.00	-17.46	AVG	
7		2.4980	42.53	9.62	52.15	56.00	-3.85	QP	
8	*	2.4980	34.28	9.62	43.90	46.00	-2.10	AVG	
9		4.9978	33.88	9.80	43.68	56.00	-12.32	QP	
10		4.9978	26.18	9.80	35.98	46.00	-10.02	AVG	
11		25.0180	33.33	9.74	43.07	60.00	-16.93	QP	
12		25.0180	19.09	9.74	28.83	50.00	-21.17	AVG	

3.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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)	Limit (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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
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

3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

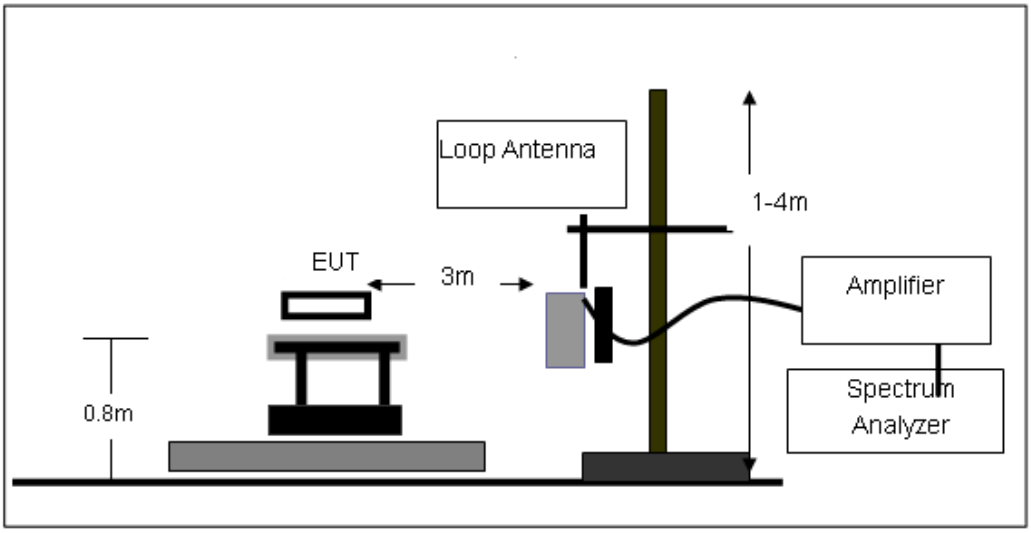
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

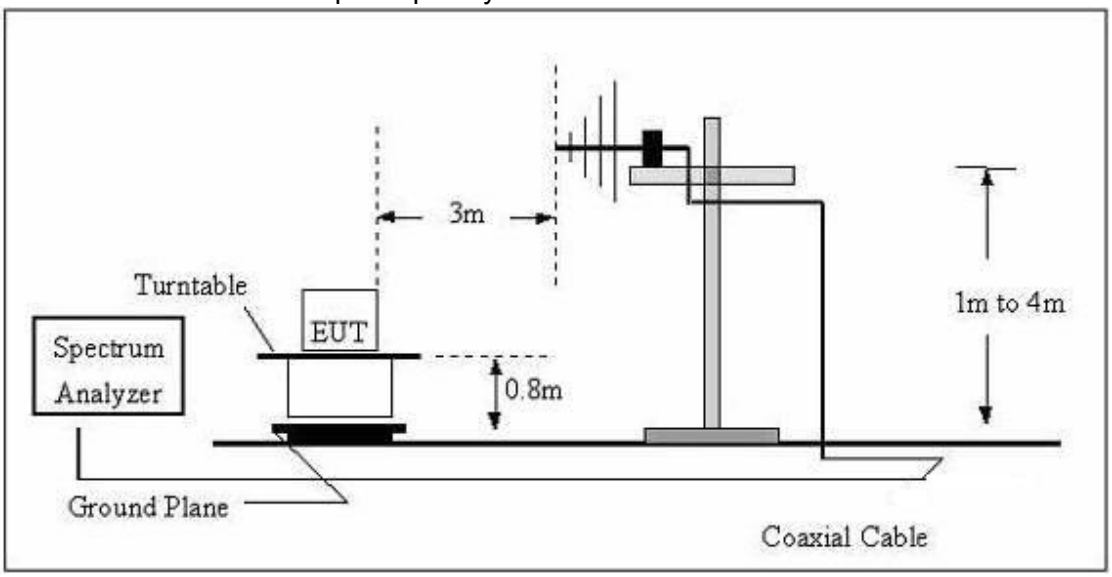
No deviation

3.2.4 TEST SETUP

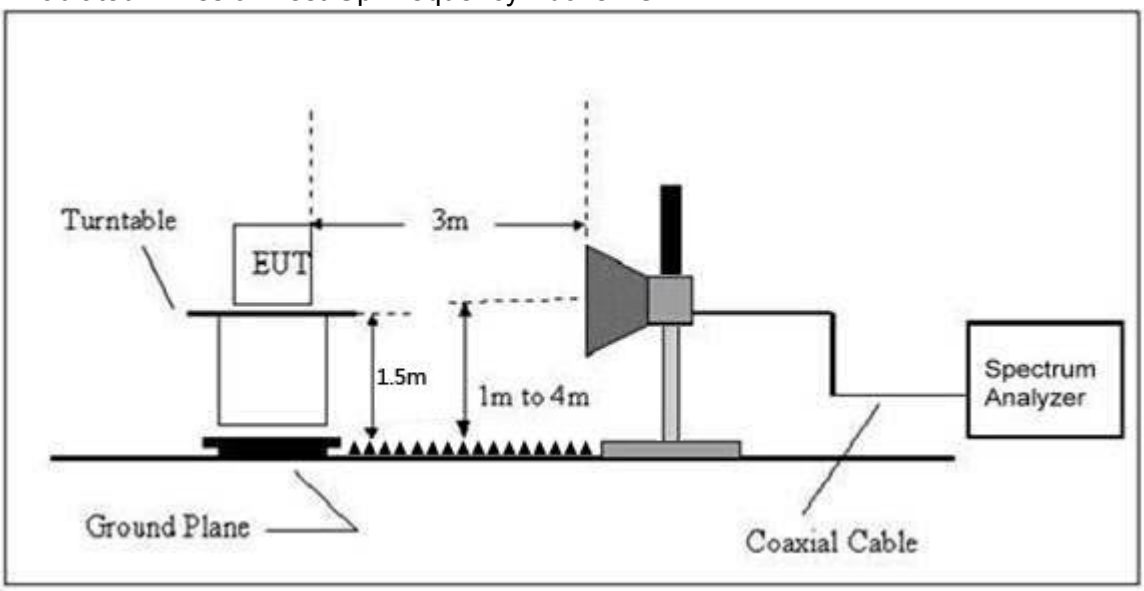
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	--

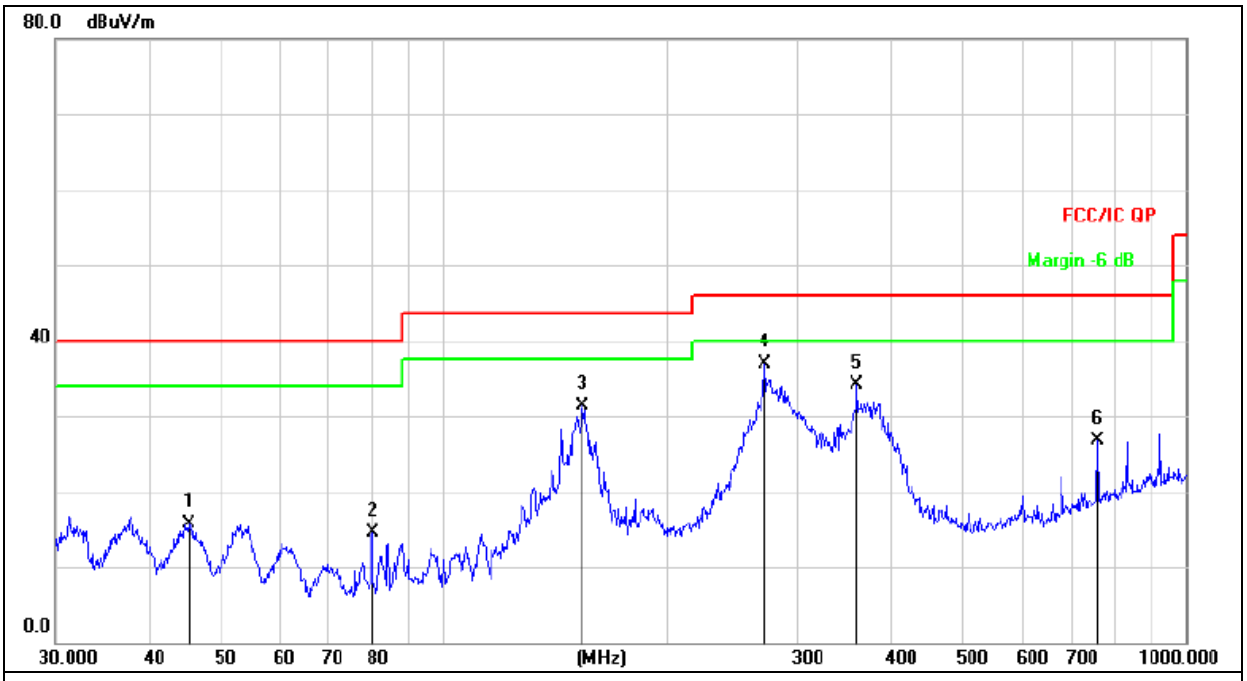
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

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.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

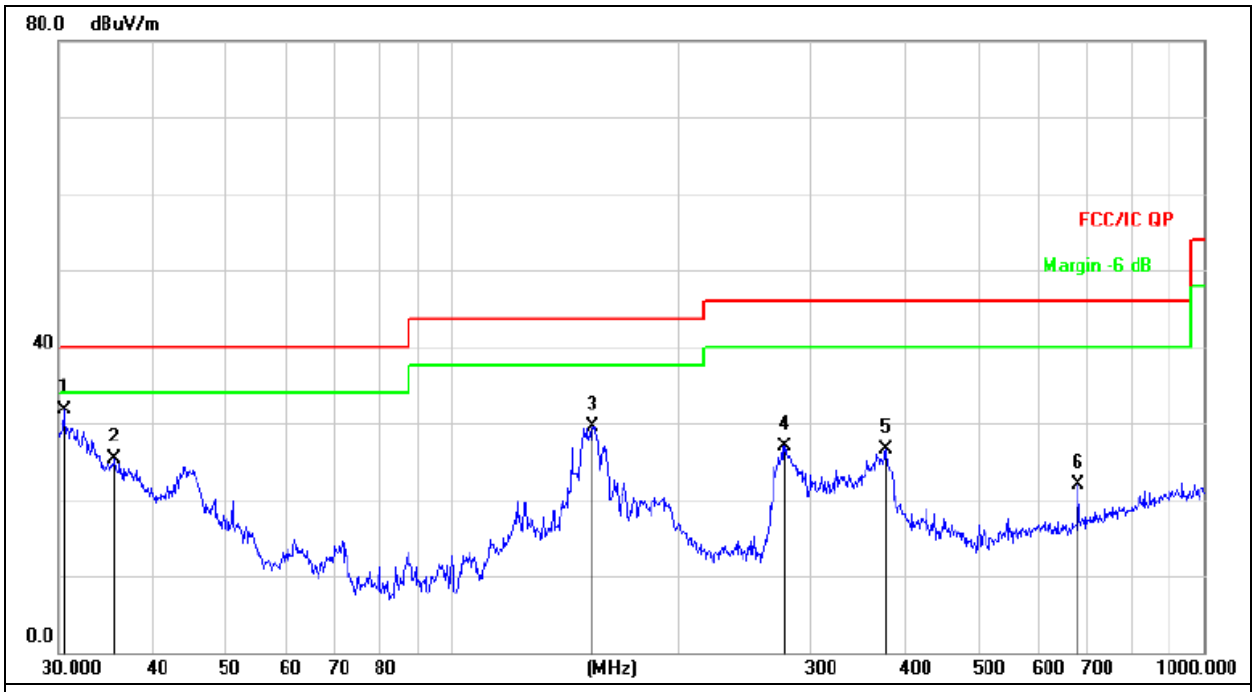
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 4		



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.3755	30.77	-15.11	15.66	40.00	-24.34	QP
2		80.0806	34.97	-20.39	14.58	40.00	-25.42	QP
3		153.7385	50.62	-19.26	31.36	43.50	-12.14	QP
4	*	270.3748	51.41	-14.52	36.89	46.00	-9.11	QP
5		360.4476	46.14	-11.99	34.15	46.00	-11.85	QP
6		760.7036	30.88	-4.19	26.69	46.00	-19.31	QP

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 4		



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	30.4238	48.94	-17.20	31.74	40.00	-8.26	QP
2		35.6240	41.57	-16.23	25.34	40.00	-14.66	QP
3		153.7385	48.74	-19.26	29.48	43.50	-14.02	QP
4		277.0935	41.20	-14.31	26.89	46.00	-19.11	QP
5		377.2591	38.03	-11.61	26.42	46.00	-19.58	QP
6		679.9600	27.70	-5.81	21.89	46.00	-24.11	QP

3.2.8 TEST RESULTS (1GHZ~25GHZ)

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	66.52	39.55	7.85	25.66	60.48	74.00	-13.52	PK
V	4824.00	51.15	39.55	7.85	25.66	45.11	54.00	-8.89	AV
V	7236.00	67.07	38.33	7.52	24.55	60.81	74.00	-13.19	PK
V	7236.00	49.31	38.33	7.52	24.55	43.05	54.00	-10.95	AV
V	15450.00	52.19	35.23	6.75	26.59	50.30	74.00	-23.70	PK
H	4824.00	66.67	39.55	7.85	25.66	60.63	74.00	-13.37	PK
H	4824.00	50.01	39.55	7.85	25.66	43.97	54.00	-10.03	AV
H	7236.00	68.01	38.33	7.52	23.55	60.75	74.00	-13.25	PK
H	7236.00	49.30	38.33	7.52	23.22	41.71	54.00	-12.29	AV
H	15450.00	52.38	35.45	6.75	27.88	51.56	74.00	-22.44	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	66.33	38.89	7.57	25.45	60.46	74.00	-13.54	Pk
V	4874.00	52.52	38.89	7.57	25.45	46.65	54.00	-7.35	AV
V	7311.00	68.05	38.78	7.35	24.78	61.40	74.00	-12.60	Pk
V	7311.00	50.37	38.78	7.35	24.78	43.72	54.00	-10.28	AV
V	15450.00	52.56	35.89	6.42	26.47	49.56	74.00	-24.44	Pk
H	4874.00	66.60	38.89	7.57	25.45	60.73	74.00	-13.27	Pk
H	4874.00	49.79	38.89	7.57	25.45	43.92	54.00	-10.08	AV
H	7311.00	67.00	38.78	7.35	24.78	60.35	74.00	-13.65	Pk
H	7311.00	50.54	38.78	7.35	24.78	43.89	54.00	-10.11	AV
H	15450.00	51.14	36.68	6.42	26.65	47.53	74.00	-26.47	Pk

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz									
V	4924.00	67.58	38.75	7.46	25.45	61.74	74.00	-12.26	PK
V	4924.00	53.82	38.75	7.46	25.45	47.98	54.00	-6.02	AV
V	7386.00	69.46	38.65	7.22	24.78	62.81	74.00	-11.19	PK
V	7386.00	49.31	38.65	7.22	24.78	42.66	54.00	-11.34	AV
V	15450.00	53.00	35.58	6.35	26.47	50.24	74.00	-23.76	PK
H	4924.00	67.55	38.75	7.46	25.45	61.71	74.00	-12.29	PK
H	4924.00	49.11	38.75	7.46	25.45	43.27	54.00	-10.73	AV
H	7386.00	66.03	38.65	7.22	24.78	59.38	74.00	-14.62	PK
H	7386.00	49.13	38.65	7.22	24.78	42.48	54.00	-11.52	AV
H	15450.00	49.75	36.42	6.32	26.65	46.30	74.00	-27.70	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	68.85	39.55	7.85	25.66	62.81	74.00	-11.19	PK
V	4824.00	54.47	39.55	7.85	25.66	48.43	54.00	-5.57	AV
V	7236.00	70.51	38.33	7.52	24.55	64.25	74.00	-9.75	PK
V	7236.00	49.39	38.33	7.52	24.55	43.13	54.00	-10.87	AV
V	15450.00	54.08	35.23	6.75	26.59	52.19	74.00	-21.81	PK
H	4824.00	67.57	39.55	7.85	25.66	61.53	74.00	-12.47	PK
H	4824.00	50.20	39.55	7.85	25.66	44.16	54.00	-9.84	AV
H	7236.00	66.70	38.33	7.52	23.55	59.44	74.00	-14.56	PK
H	7236.00	48.93	38.33	7.52	23.22	41.34	54.00	-12.66	AV
H	15450.00	49.68	35.45	6.75	27.88	48.86	74.00	-25.14	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	68.20	38.89	7.57	25.45	62.33	74.00	-11.67	PK
V	4874.00	53.76	38.89	7.57	25.45	47.89	54.00	-6.11	AV
V	7311.00	70.85	38.78	7.35	24.78	64.20	74.00	-9.80	PK
V	7311.00	50.33	38.78	7.35	24.78	43.68	54.00	-10.32	AV
V	15450.00	52.65	35.89	6.42	26.47	49.65	74.00	-24.35	PK
H	4874.00	68.50	38.89	7.57	25.45	62.63	74.00	-11.37	PK
H	4874.00	49.46	38.89	7.57	25.45	43.59	54.00	-10.41	AV
H	7311.00	67.76	38.78	7.35	24.78	61.11	74.00	-12.89	PK
H	7311.00	50.27	38.78	7.35	24.78	43.62	54.00	-10.38	AV
H	15450.00	49.76	36.68	6.42	26.65	46.15	74.00	-27.85	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz									
V	4924.00	67.67	38.75	7.46	25.45	61.83	74.00	-12.17	PK
V	4924.00	52.49	38.75	7.46	25.45	46.65	54.00	-7.35	AV
V	7386.00	71.50	38.65	7.22	24.78	64.85	74.00	-9.15	PK
V	7386.00	51.42	38.65	7.22	24.78	44.77	54.00	-9.23	AV
V	15450.00	51.79	35.58	6.35	26.47	49.03	74.00	-24.97	PK
H	4924.00	69.87	38.75	7.46	25.45	64.03	74.00	-9.97	PK
H	4924.00	50.94	38.75	7.46	25.45	45.10	54.00	-8.90	AV
H	7386.00	67.09	38.65	7.22	24.78	60.44	74.00	-13.56	PK
H	7386.00	49.01	38.65	7.22	24.78	42.36	54.00	-11.64	AV
H	15450.00	50.25	36.42	6.32	26.65	46.80	74.00	-27.20	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

802.11n(20MHz)

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	68.99	39.55	7.85	25.66	62.95	74.00	-11.05	PK
V	4824.00	52.37	39.55	7.85	25.66	46.33	54.00	-7.67	AV
V	7236.00	70.86	38.33	7.52	24.55	64.60	74.00	-9.40	PK
V	7236.00	51.01	38.33	7.52	24.55	44.75	54.00	-9.25	AV
V	15450.00	52.75	35.23	6.75	26.59	50.86	74.00	-23.14	PK
H	4824.00	68.68	39.55	7.85	25.66	62.64	74.00	-11.36	PK
H	4824.00	51.30	39.55	7.85	25.66	45.26	54.00	-8.74	AV
H	7236.00	65.71	38.33	7.52	23.55	58.45	74.00	-15.55	PK
H	7236.00	49.25	38.33	7.52	23.22	41.66	54.00	-12.34	AV
H	15450.00	49.19	35.45	6.75	27.88	48.37	74.00	-25.63	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	67.61	38.89	7.57	25.45	61.74	74.00	-12.26	PK
V	4874.00	53.43	38.89	7.57	25.45	47.56	54.00	-6.44	AV
V	7311.00	69.78	38.78	7.35	24.78	63.13	74.00	-10.87	PK
V	7311.00	49.80	38.78	7.35	24.78	43.15	54.00	-10.85	AV
V	15450.00	51.51	35.89	6.42	26.47	48.51	74.00	-25.49	PK
H	4874.00	67.24	38.89	7.57	25.45	61.37	74.00	-12.63	PK
H	4874.00	52.03	38.89	7.57	25.45	46.16	54.00	-7.84	AV
H	7311.00	66.26	38.78	7.35	24.78	59.61	74.00	-14.39	PK
H	7311.00	49.26	38.78	7.35	24.78	42.61	54.00	-11.39	AV
H	15450.00	48.67	36.68	6.42	26.65	45.06	74.00	-28.94	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz									
V	4924.00	68.38	38.75	7.46	25.45	62.54	74.00	-11.46	PK
V	4924.00	52.22	38.75	7.46	25.45	46.38	54.00	-7.62	AV
V	7386.00	69.19	38.65	7.22	24.78	62.54	74.00	-11.46	PK
V	7386.00	49.39	38.65	7.22	24.78	42.74	54.00	-11.26	AV
V	15450.00	51.99	35.58	6.35	26.47	49.23	74.00	-24.77	PK
H	4924.00	67.89	38.75	7.46	25.45	62.05	74.00	-11.95	PK
H	4924.00	53.08	38.75	7.46	25.45	47.24	54.00	-6.76	AV
H	7386.00	65.20	38.65	7.22	24.78	58.55	74.00	-15.45	PK
H	7386.00	50.03	38.65	7.22	24.78	43.38	54.00	-10.62	AV
H	15450.00	47.40	36.42	6.32	26.65	43.95	74.00	-30.05	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

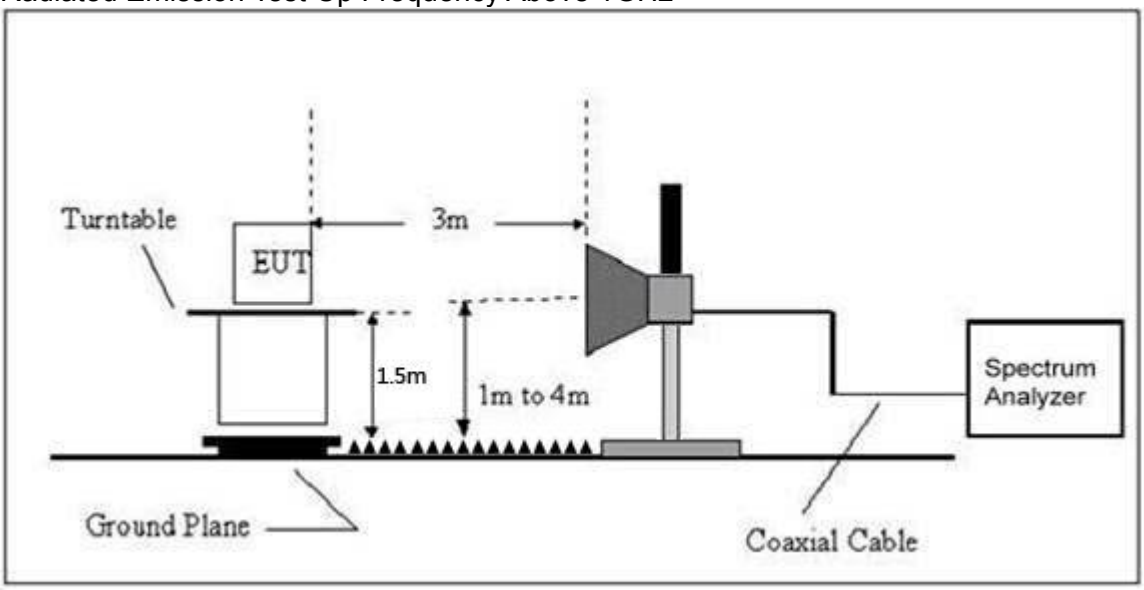
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 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.

3.3.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission evel (dBuV/m)	Limits (dBuV/m)		Result
							PK	PK	AV	
802.11b	Low Channel 2412MHz									
	H	2390.00	60.78	38.06	7.42	20.15	50.29	74.00	54.00	PASS
	H	2400.00	52.24	38.06	7.42	20.15	41.75	74.00	54.00	PASS
	V	2390.00	62.52	38.06	7.42	20.15	52.03	74.00	54.00	PASS
	V	2400.00	53.38	38.06	7.42	20.15	42.89	74.00	54.00	PASS
	High Channel 2462MHz									
	H	2483.50	60.63	38.17	7.45	20.54	50.45	74.00	54.00	PASS
	H	2485.50	54.15	38.17	7.45	20.54	43.97	74.00	54.00	PASS
	V	2483.50	61.45	38.2	7.45	20.54	51.24	74.00	54.00	PASS
	V	2485.50	51.42	38.2	7.45	20.54	41.21	74.00	54.00	PASS
802.11g	Low Channel 2412MHz									
	H	2390.00	60.21	38.06	7.42	20.15	49.72	74.00	54.00	PASS
	H	2400.00	55.12	38.06	7.42	20.15	44.63	74.00	54.00	PASS
	V	2390.00	63.96	38.06	7.42	20.15	53.47	74.00	54.00	PASS
	V	2400.00	55.28	38.06	7.42	20.15	44.79	74.00	54.00	PASS
	High Channel 2462MHz									
	H	2483.50	63.71	38.17	7.45	20.54	53.53	74.00	54.00	PASS
	H	2485.50	52.82	38.17	7.45	20.54	42.64	74.00	54.00	PASS
	V	2483.50	60.02	38.2	7.45	20.54	49.81	74.00	54.00	PASS
	V	2485.50	53.30	38.2	7.45	20.54	43.09	74.00	54.00	PASS
802.11n20	Low Channel 2412MHz									
	H	2390.00	61.51	38.06	7.42	20.15	51.02	74.00	54.00	PASS
	H	2400.00	52.91	38.06	7.42	20.15	42.42	74.00	54.00	PASS
	V	2390.00	61.85	38.06	7.42	20.15	51.36	74.00	54.00	PASS
	V	2400.00	55.06	38.06	7.42	20.15	44.57	74.00	54.00	PASS
	High Channel 2462MHz									
	H	2483.50	63.64	38.17	7.45	20.54	53.46	74.00	54.00	PASS
	H	2485.50	54.48	38.17	7.45	20.54	44.30	74.00	54.00	PASS
	V	2483.50	63.61	38.2	7.45	20.54	53.40	74.00	54.00	PASS
	V	2485.50	54.14	38.2	7.45	20.54	43.93	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

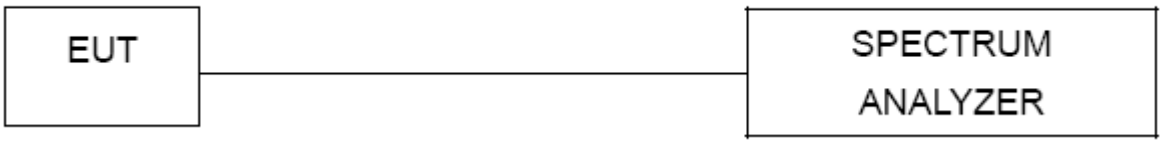
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x 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 within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

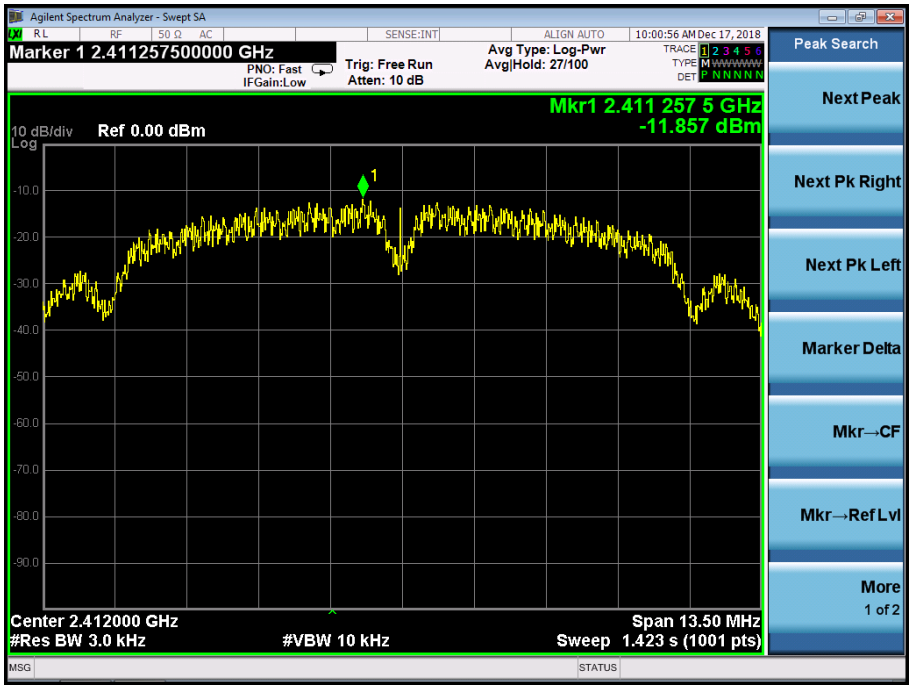
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.
Note: Power Spectral Density(dBm)=Reading+Cable Loss

4.1.5 TEST RESULTS

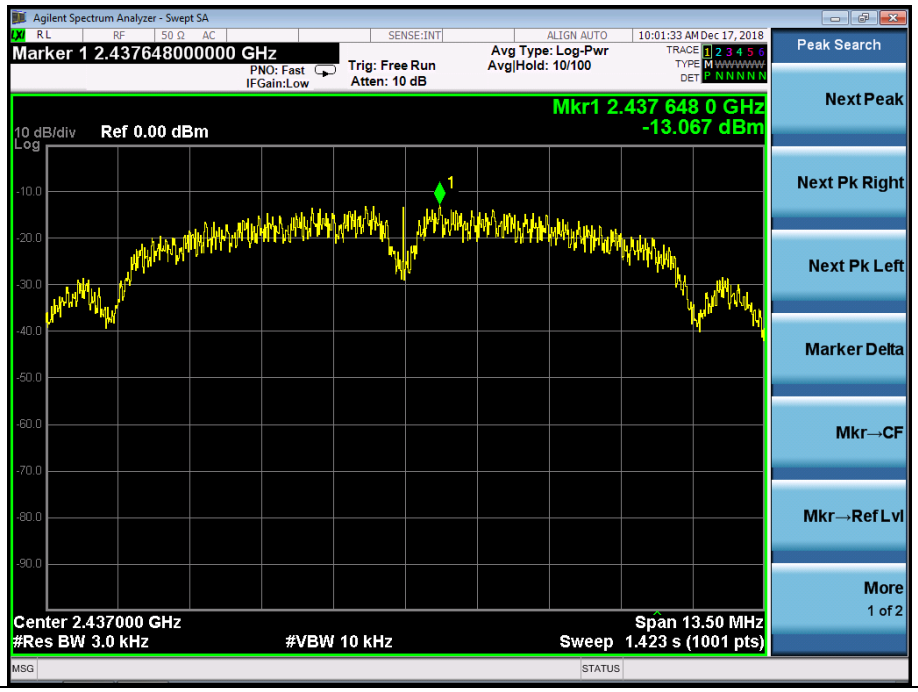
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

Frequency	Power Spectral Density(dBm)	Limit (dBm)	Result
2412 MHz	-11.857	8	PASS
2437 MHz	-13.067	8	PASS
2462 MHz	-12.438	8	PASS

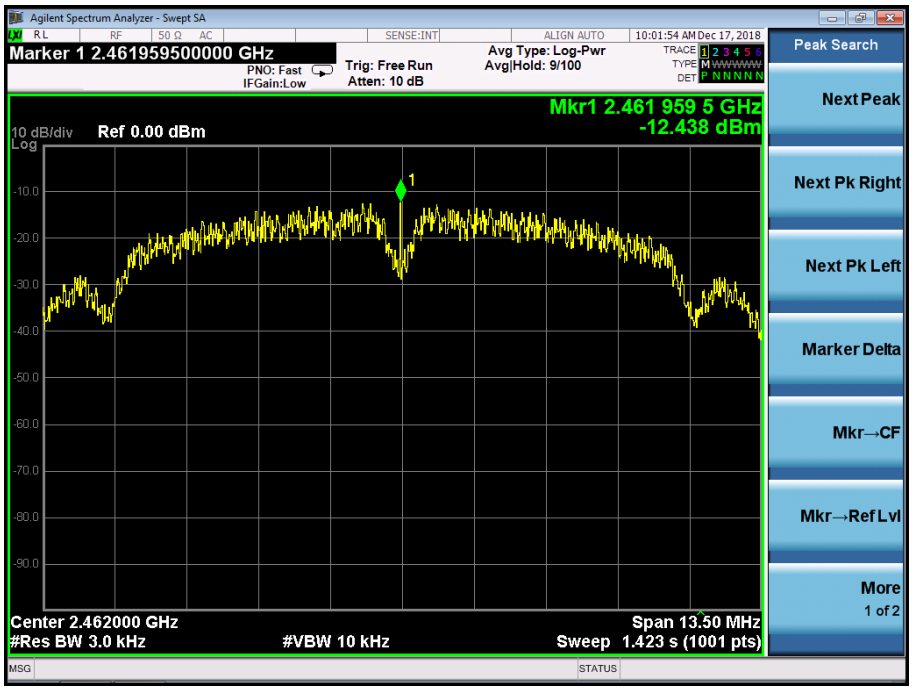
TX CH01



TX CH06



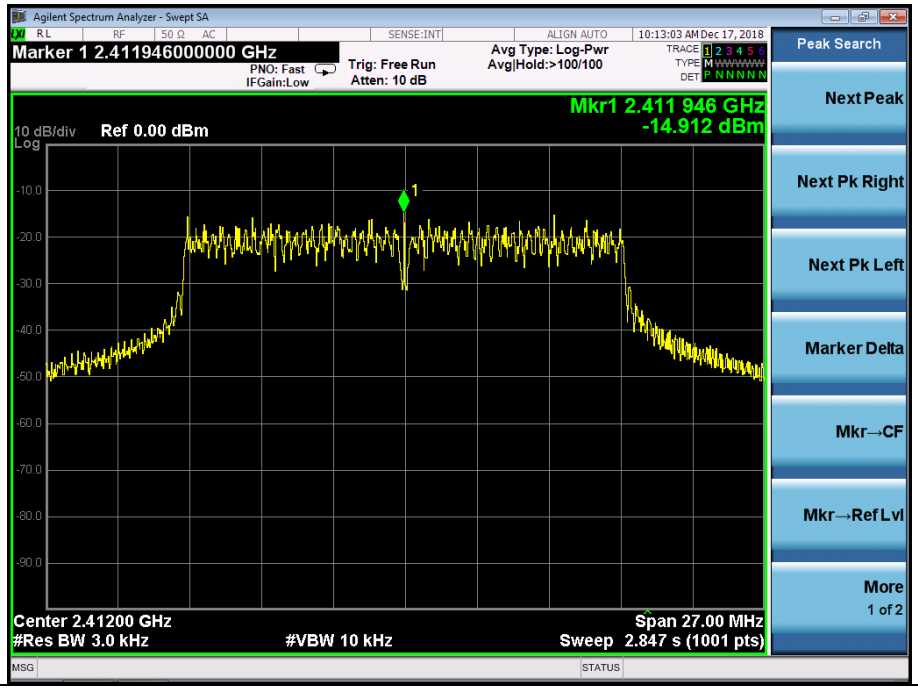
TX CH11



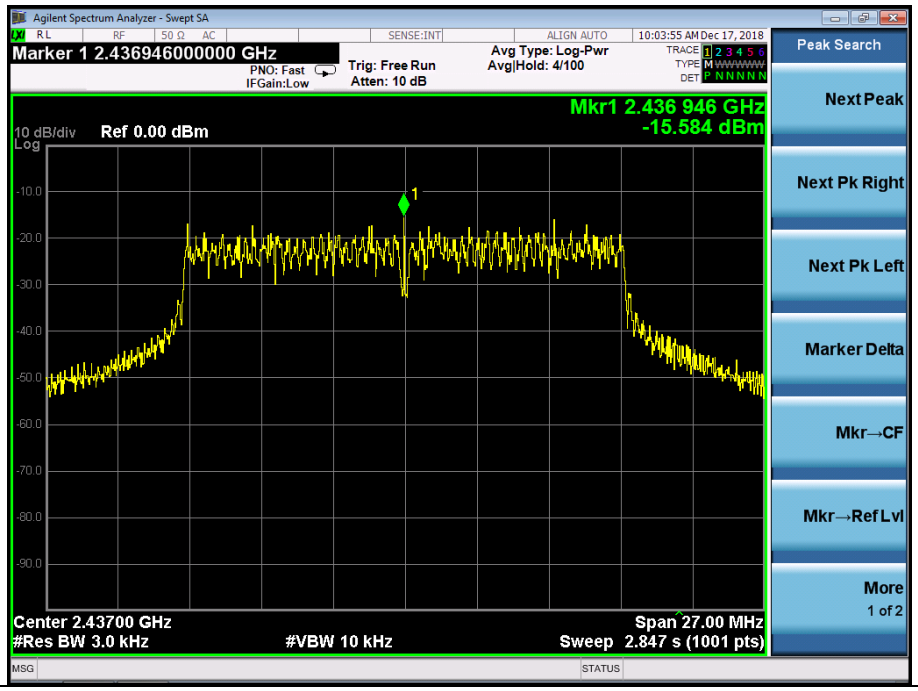
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode		

Frequency	Power Spectral Density(dBm)	Limit (dBm)	Result
2412 MHz	-14.912	8	PASS
2437 MHz	-15.584	8	PASS
2462 MHz	-13.649	8	PASS

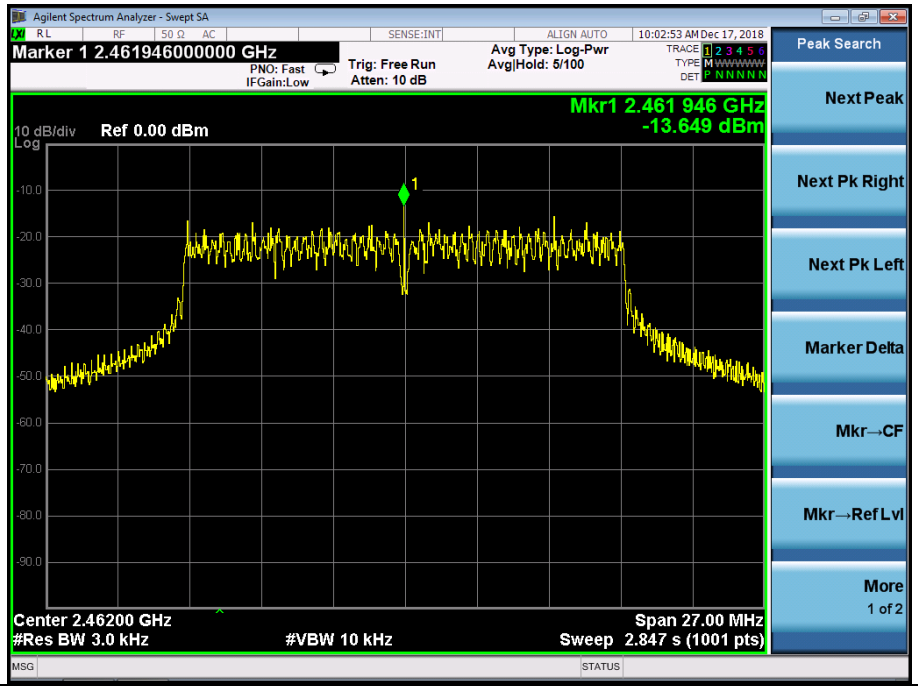
TX CH01



TX CH06



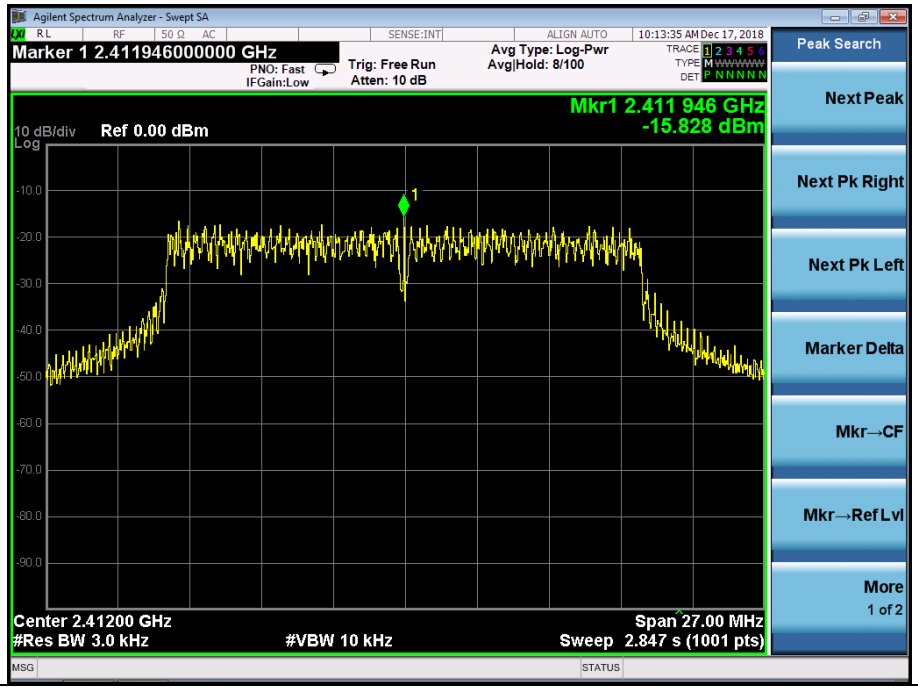
TX CH11



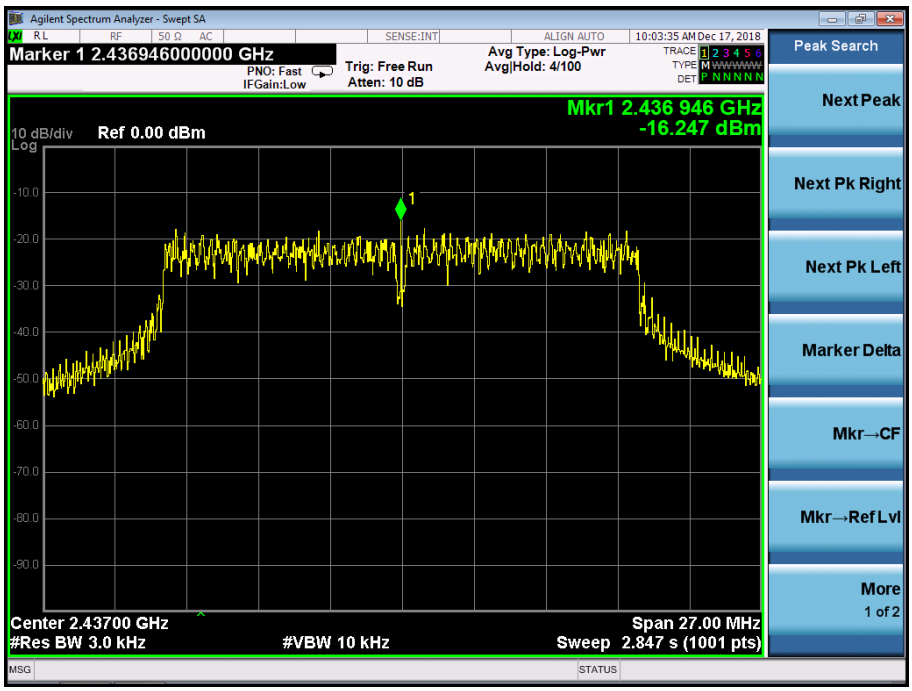
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

Frequency	Power Spectral Density(dBm)	Limit (dBm)	Result
2412 MHz	-15.828	8	PASS
2437 MHz	-16.247	8	PASS
2462 MHz	-14.517	8	PASS

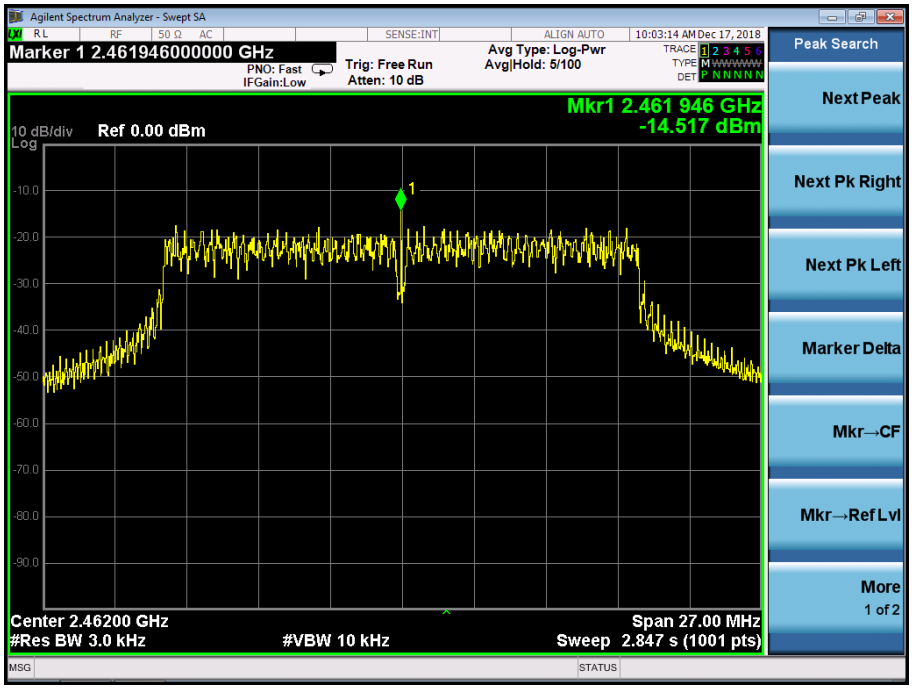
TX CH01



TX CH06



TX CH11



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

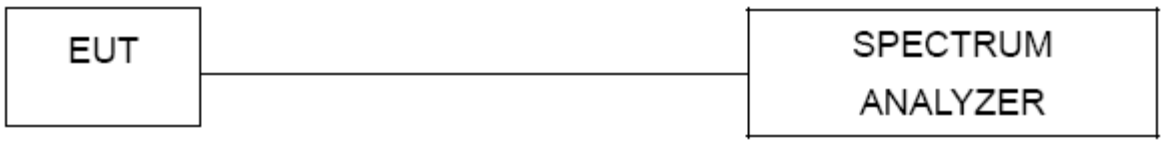
5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

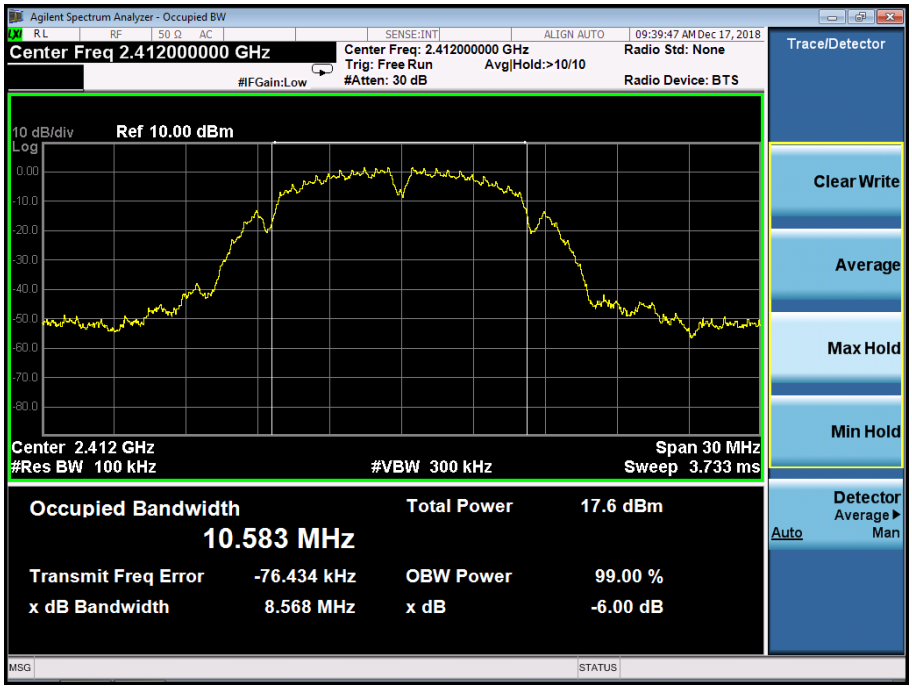
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

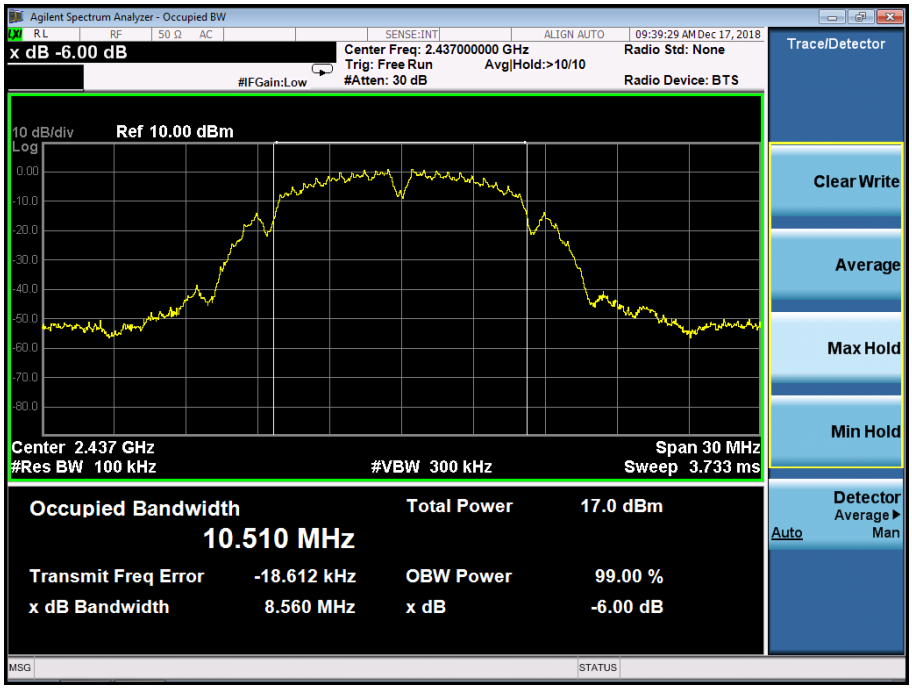
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	8.568	500	Pass
2437	8.560	500	Pass
2462	8.106	500	Pass

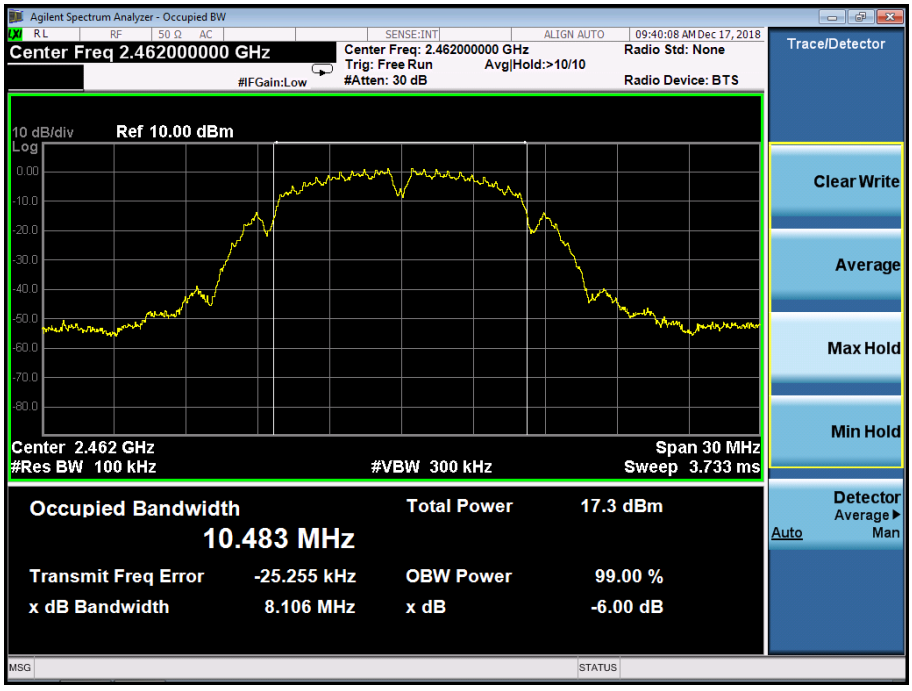
TX CH 01



TX CH 06



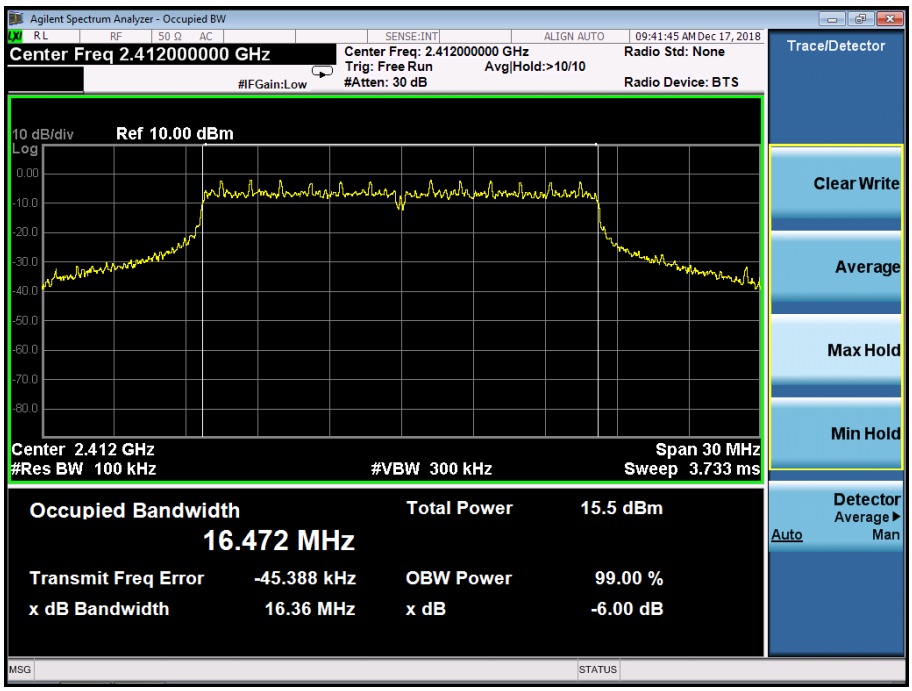
TX CH 11



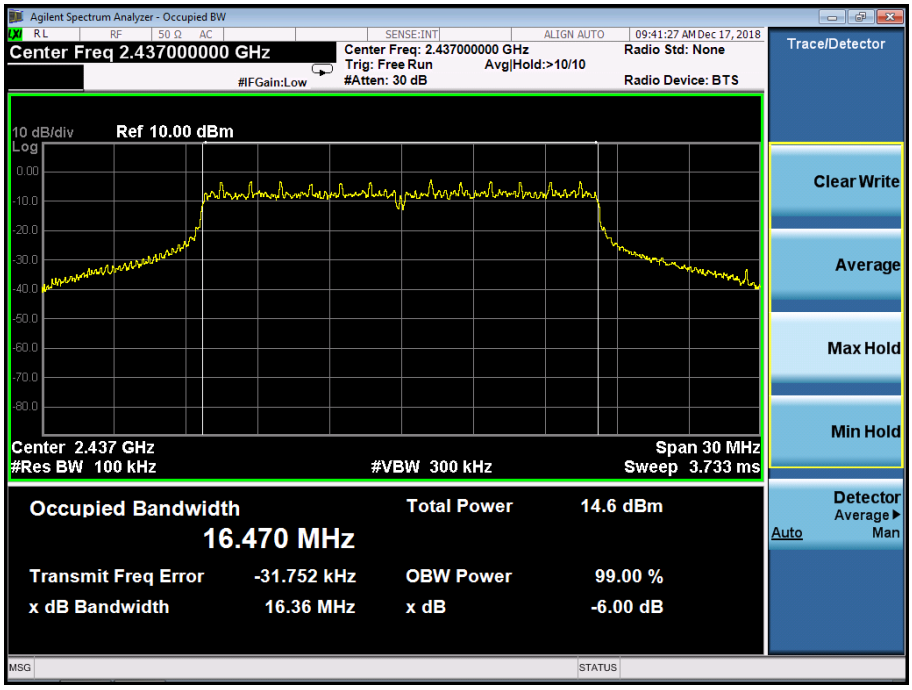
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode		

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	16.360	500	Pass
2437	16.360	500	Pass
2462	16.360	500	Pass

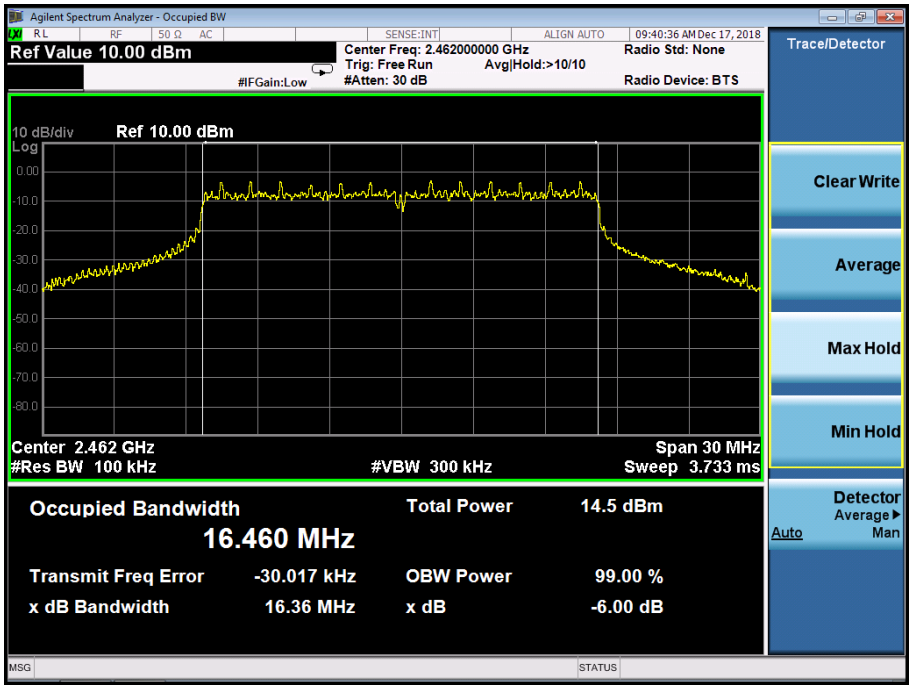
TX CH 01



TX CH 06



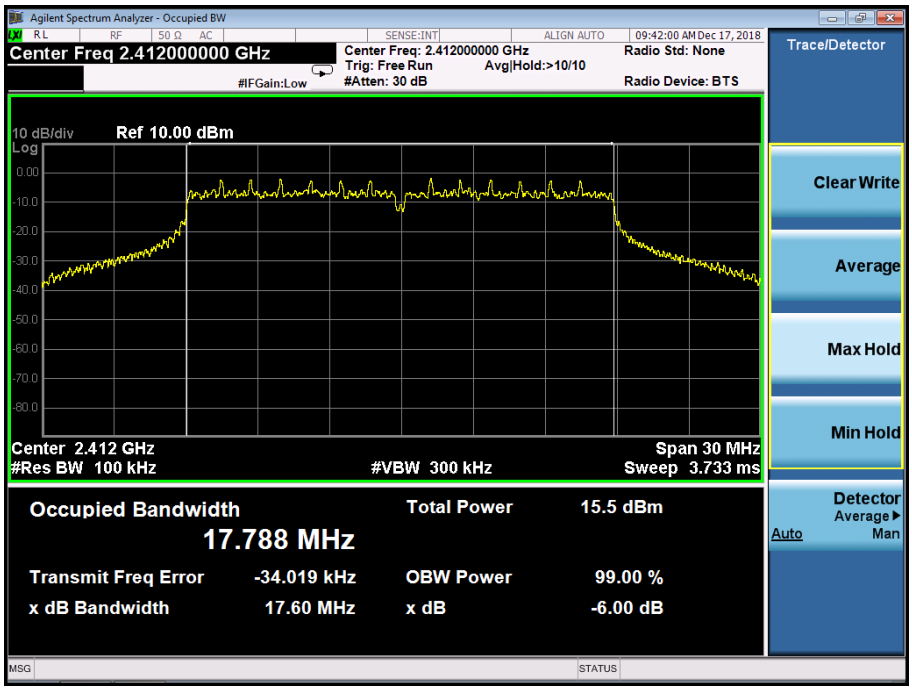
TX CH 11



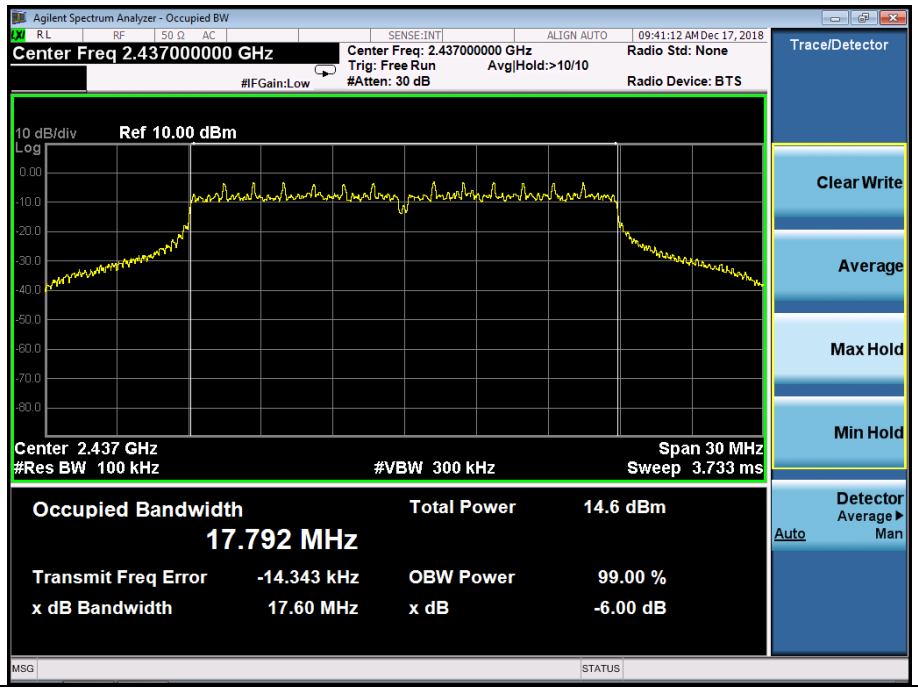
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	17.600	500	Pass
2437	17.600	500	Pass
2462	17.610	500	Pass

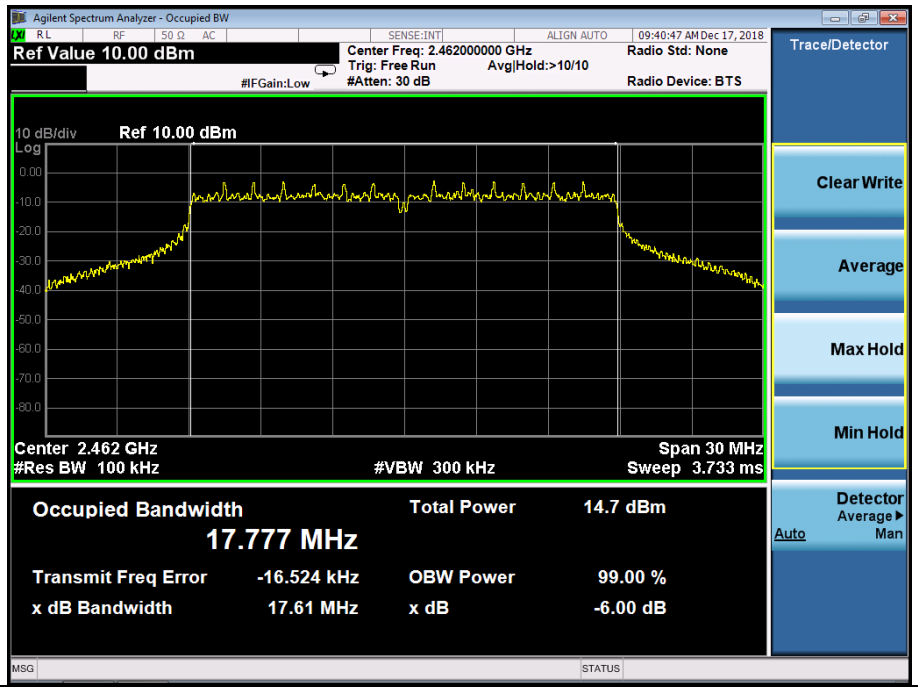
TX CH 01



TX CH 06



TX CH 11



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

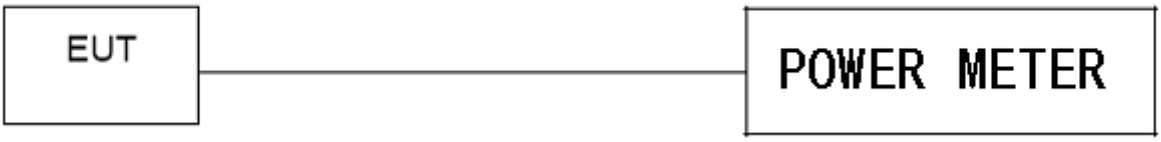
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz

	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
802.11b	2412	12.229	30
	2437	12.482	30
	2462	12.069	30
802.11g	2412	11.729	30
	2437	11.343	30
	2462	11.841	30
802.11n20	2412	10.902	30
	2437	10.697	30
	2462	10.252	30

7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

7.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

7.2 TEST PROCEDURE

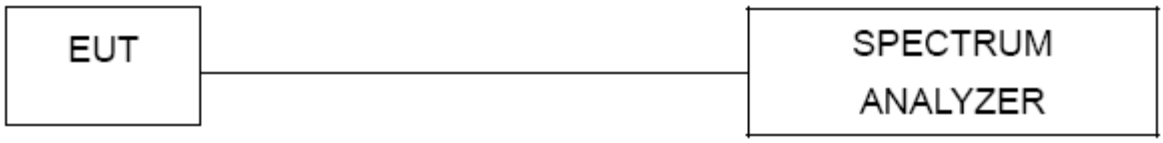
Using the following spectrum analyzer setting:

a) Set the RBW = 100KHz.
b) Set the VBW = 300KHz.
c) Sweep time = auto couple.
d) Detector function = peak.
e) Trace mode = max hold.
f) Allow trace to fully stabilize.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

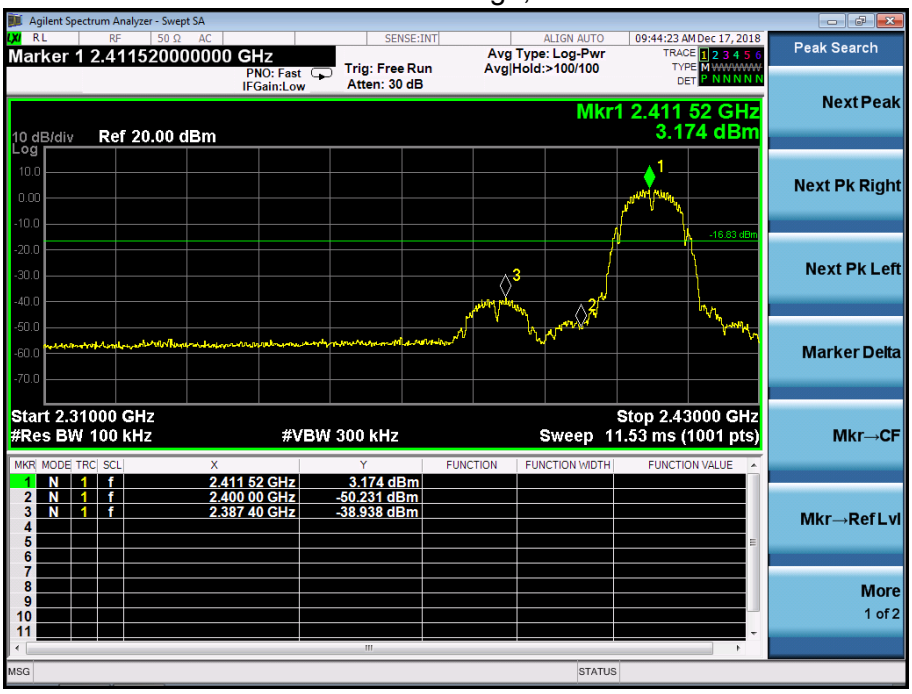


7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1 TEST RESULTS

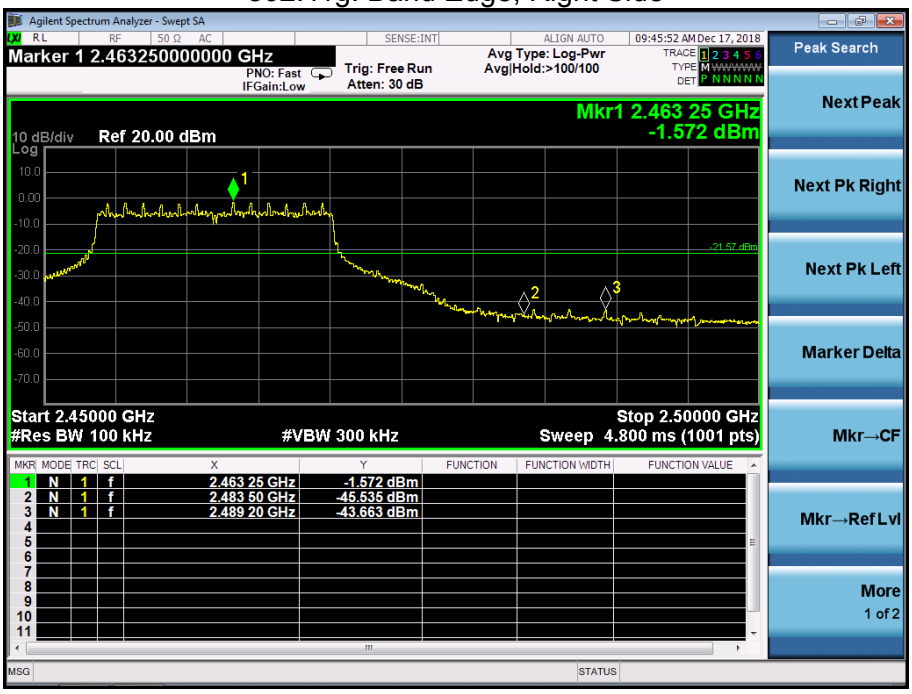
802.11b: Band Edge, Left Side



802.11b: Band Edge, Right Side

802.11g: Band Edge, Left Side

802.11g: Band Edge, Right Side



802.11n-HT20: Band Edge, Left Side

802.11n-HT20: Band Edge, Right Side

CONDUCTED EMISSION MEASUREMENT

802.11b

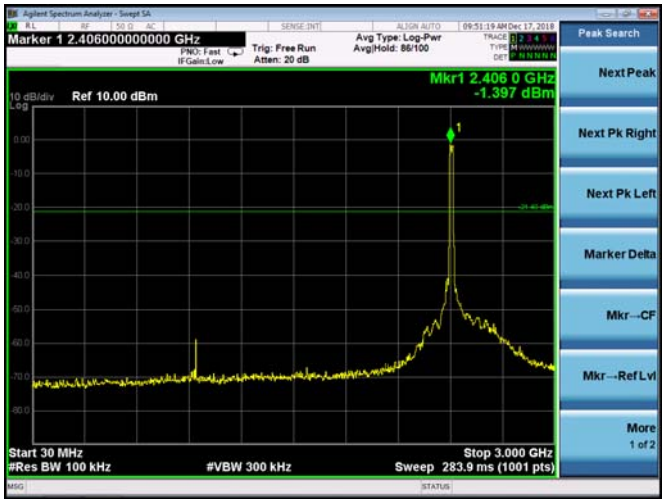
Low Channel 2412MHz

Middle Channel 2437MHz

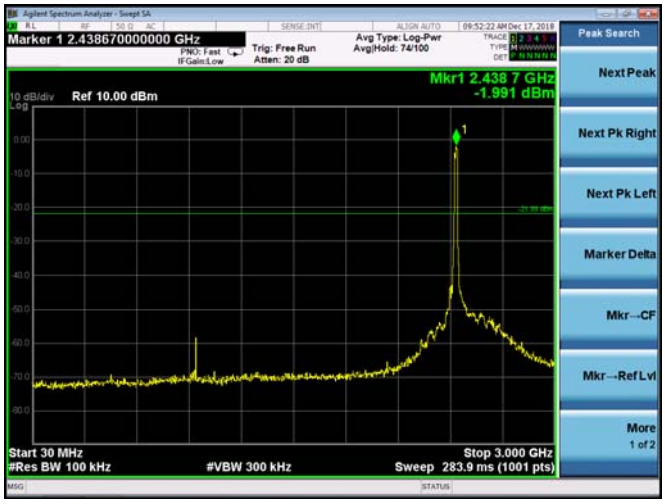
High Channel 2462MHz

802.11g

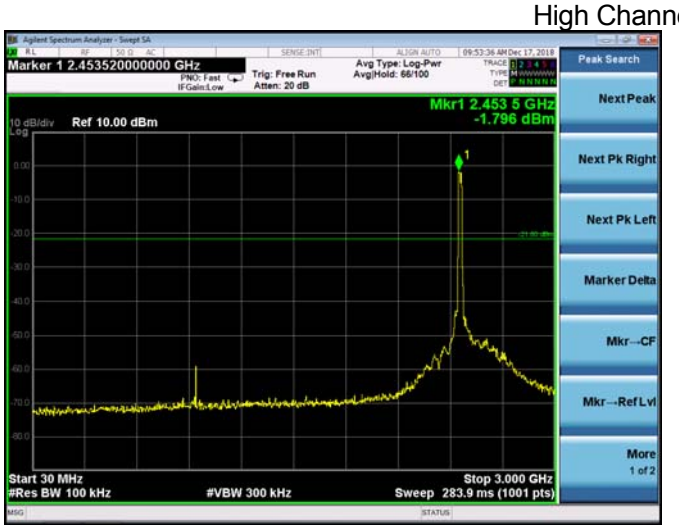
Low Channel 2412MHz

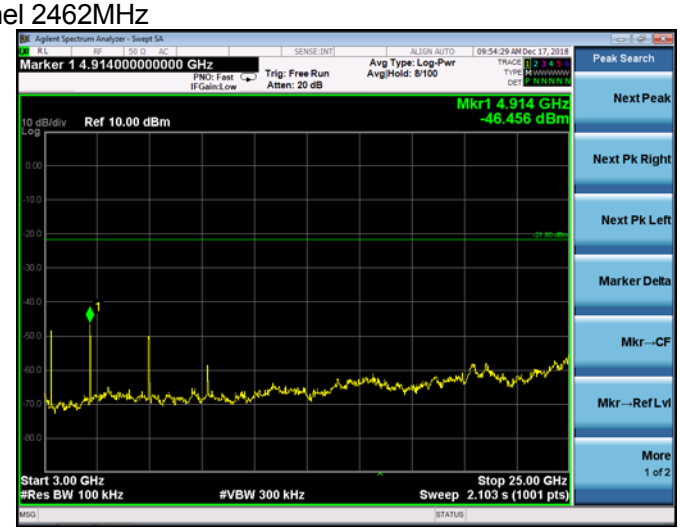


Middle Channel 2437MHz



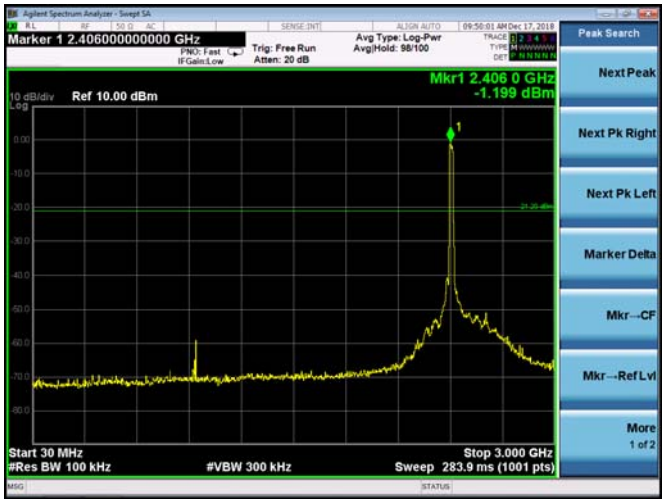
High Channel 2462MHz



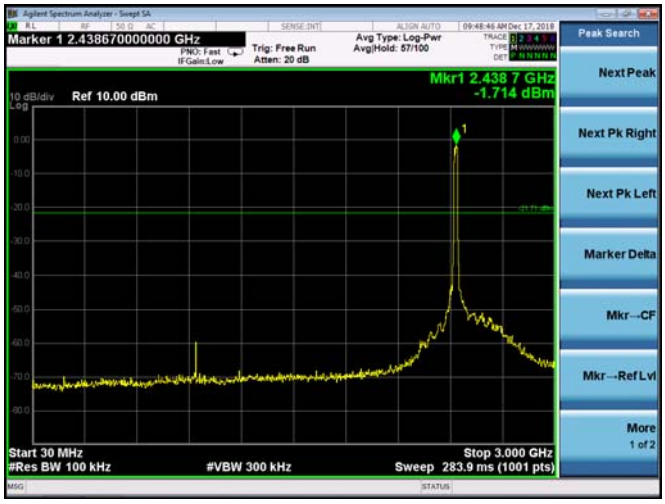


802.11n20

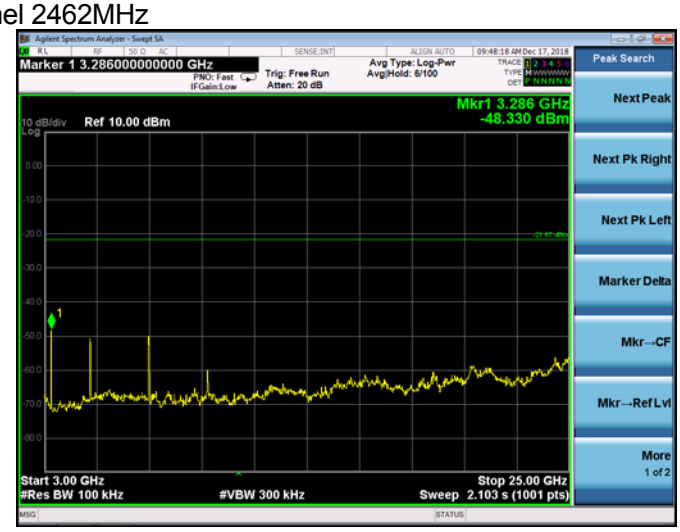
Low Channel 2412MHz



Middle Channel 2437MHz



High Channel 2462MHz



8. DUTY CYCLE OF TEST SIGNAL

8.1 STANDARD REQUIREMENT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 FORMULA:

Duty Cycle = Ton / (Ton+Toff)

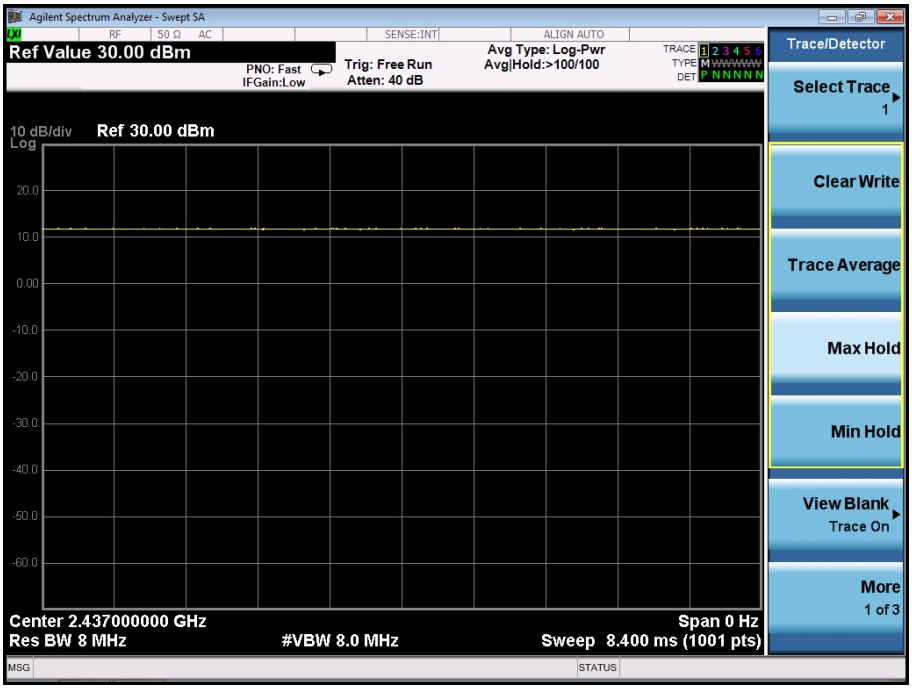
Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

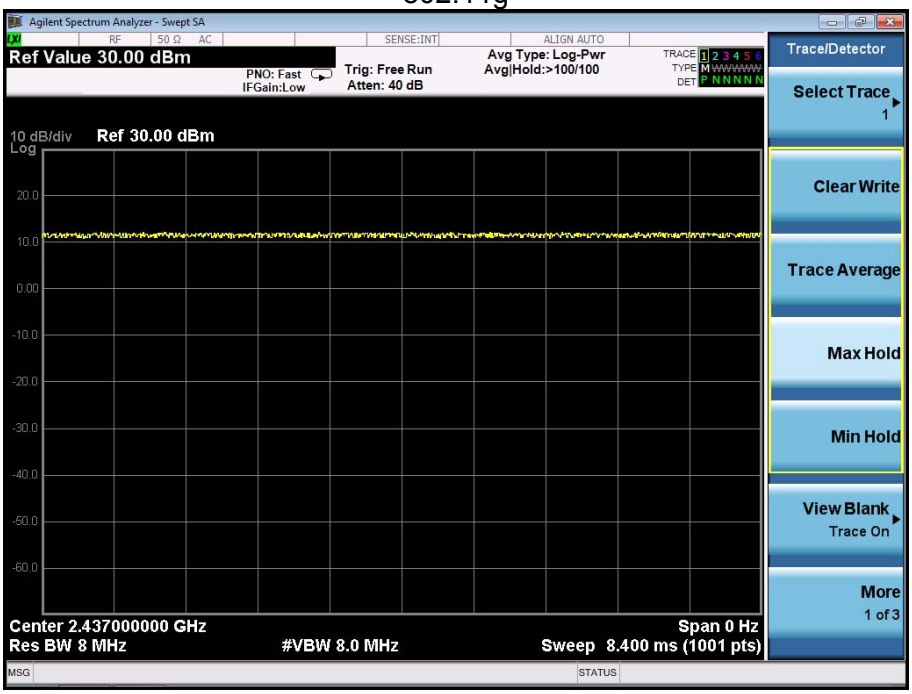
Duty Cycle:

	Duty Cycle	Duty Fator (dB)
802.11b	1	0
802.11g	1	0
802.11n(HT20)	1	0

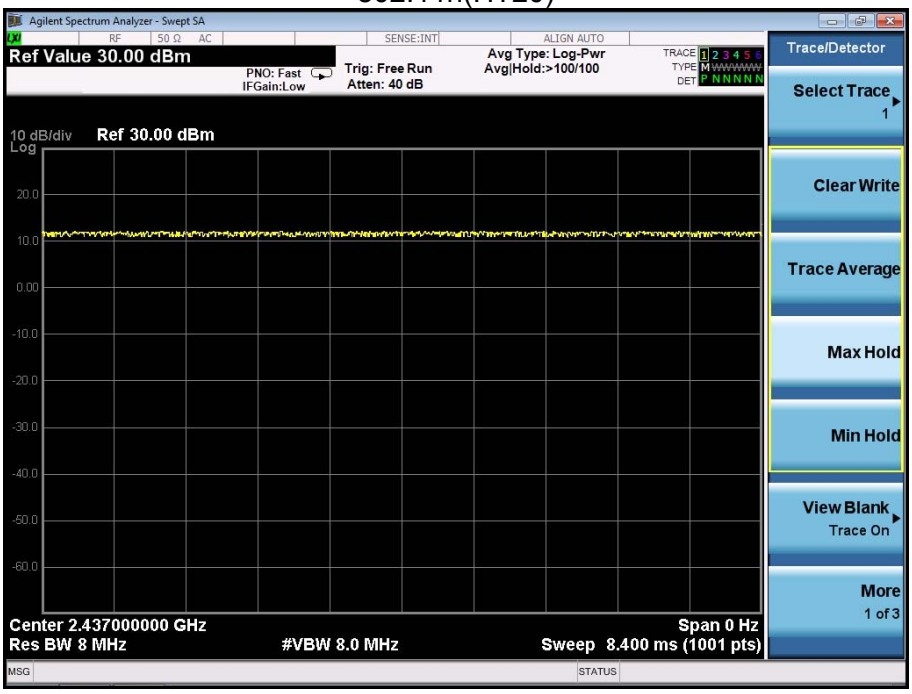
802.11b



802.11g



802.11n(HT20)



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.

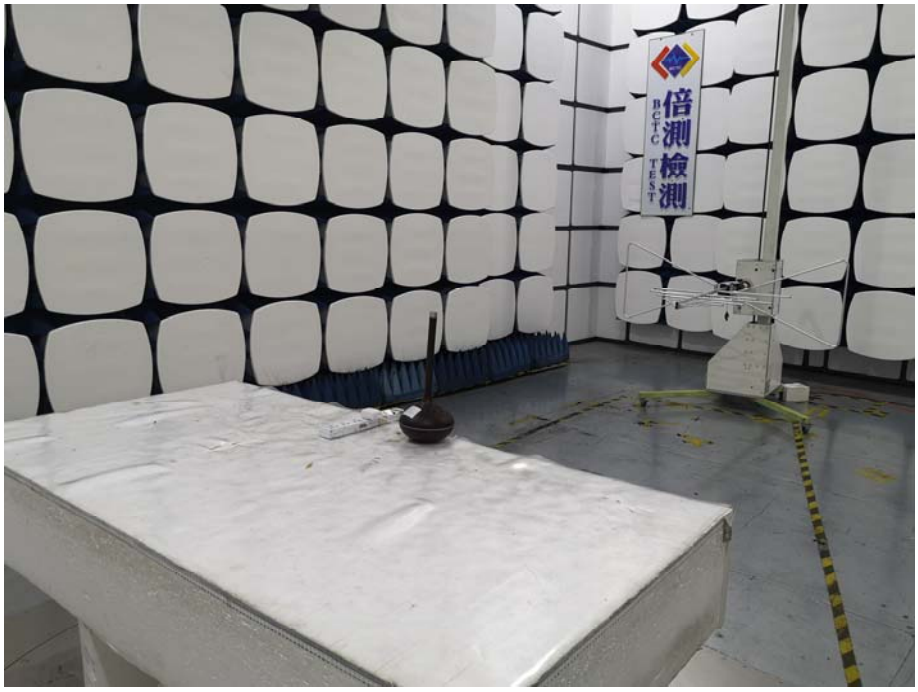
9.2 EUT ANTENNA

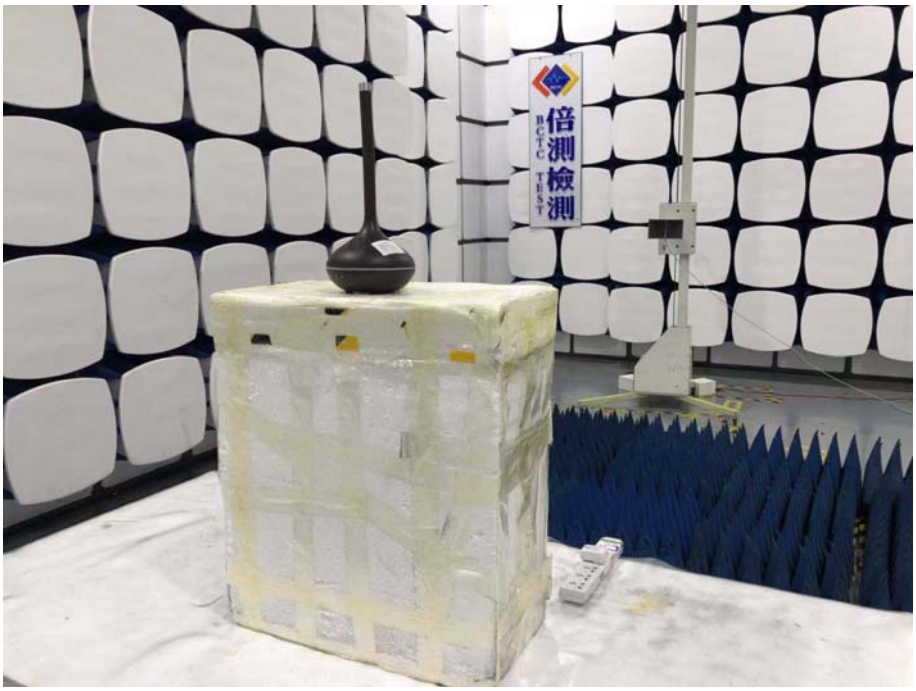
The EUT antenna is PCB Antenna, It comply with the standard requirement.

10. EUT TEST PHOTO

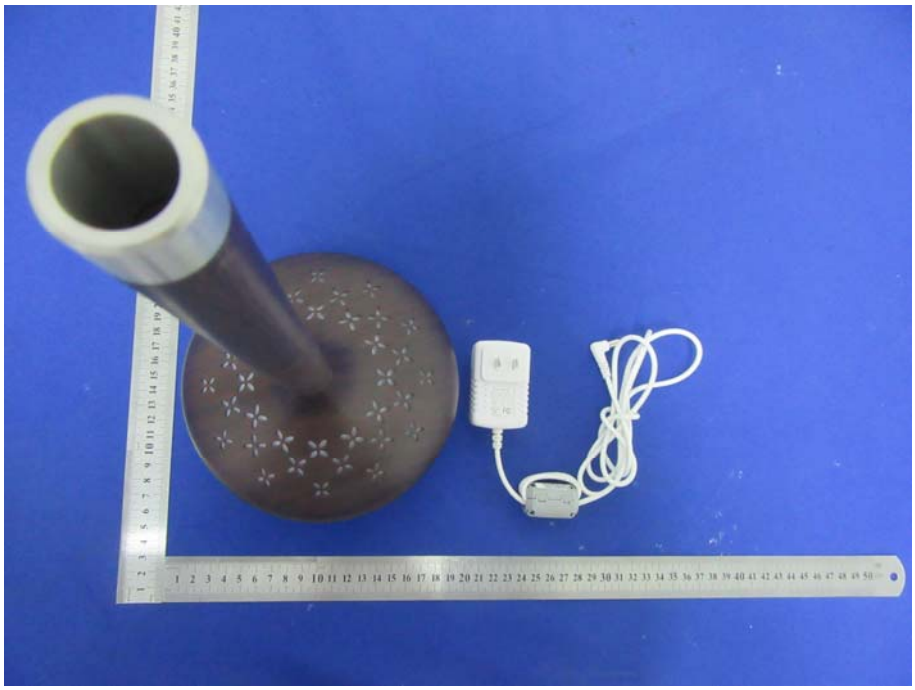
Conducted Measurement Photos

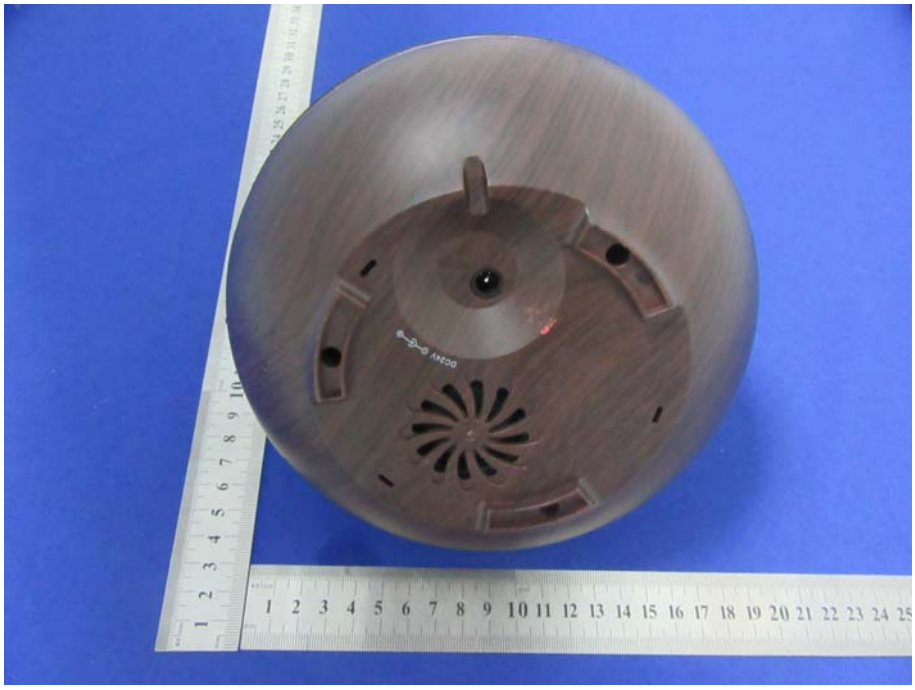
Radiated Measurement Photos





11. EUT PHOTO





※※※※※ **END OF REPORT** ※※※※※