



RADIO TEST REPORT

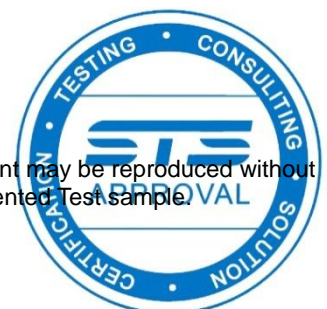
Report No:STS1911280W06

Issued for

K-MOBILE TECHNOLOGY CO.,LTD

NO 1109-1110,C1 Block,bantian international center,NO 5
huancheng south road,longgang district,Shenzhen,China.

Product Name:	4G Android Push to Talk Phone
Brand Name:	EST/ALKY
Model Name:	E618
Series Model:	N/A
FCC ID:	2AVAF-E618
Test Standard:	FCC Part 15.247



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TEST RESULT CERTIFICATION

Applicant's Name: K-MOBILE TECHNOLOGY CO.,LTD
 Address: NO 1109-1110,C1 Block,bantian international center,NO 5 huancheng south road,longgang district,Shenzhen,China.
Manufacture's Name: K-MOBILE TECHNOLOGY CO.,LTD
 Address: NO 1109-1110,C1 Block,bantian international center,NO 5 huancheng south road,longgang district,Shenzhen,China.

Product Description

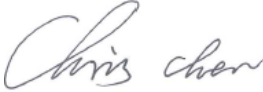
Product Name: 4G Android Push to Talk Phone
 Brand Name.....: ESTALKY
 Model Name: E618
 Series Model.....: N/A

Test Standards: FCC Part15.247


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

This device described above has been tested by STS, 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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Date of Test:
 Date of receipt of test item.....: 26 Nov. 2019
 Date (s) of performance of tests: 26 Nov. 2019 ~ 24 Dec. 2019
 Date of Issue: 26 Dec. 2019
 Test Result.....: **Pass**

Testing Engineer : 

 (Chris Chen)

Technical Manager : 

 (Sunday Hu)

Authorized Signatory : 

 (Vita Li)

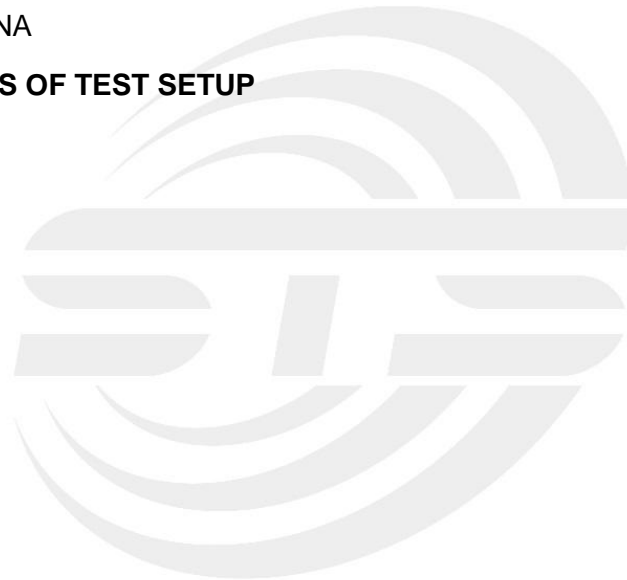




Table of Contents	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	12
2.5 EQUIPMENTS LISTS	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 RADIATED EMISSION MEASUREMENT	18
4.CONDUCTED SPURIOUS & BAND EDGE EMISSION	30
4.1 LIMIT	30
4.2 TEST PROCEDURE	30
4.3 DEVIATION FROM STANDARD	30
4.4 TEST SETUP	30
4.5 EUT OPERATION CONDITIONS	30
4.6 TEST RESULTS	31
5. POWER SPECTRAL DENSITY TEST	43
5.1 LIMIT	43
5.2 TEST PROCEDURE	43
5.3 DEVIATION FROM STANDARD	43
5.4 TEST SETUP	43
5.5 EUT OPERATION CONDITIONS	43
5.6 TEST RESULTS	44
6. BANDWIDTH TEST	50
6.1 LIMIT	50
6.2 TEST PROCEDURE	50
6.3 DEVIATION FROM STANDARD	50
6.4 TEST SETUP	50
6.5 EUT OPERATION CONDITIONS	50
6.6 TEST RESULTS	51



Table of Contents	Page
7. PEAK OUTPUT POWER TEST	57
7.1 LIMIT	57
7.2 TEST PROCEDURE	57
7.3 DEVIATION FROM STANDARD	57
7.4 TEST SETUP	58
7.5 EUT OPERATION CONDITIONS	58
7.6 TEST RESULTS	59
8. ANTENNA REQUIREMENT	60
8.1 STANDARD REQUIREMENT	60
8.2 EUT ANTENNA	60
APPENDIX-PHOTOS OF TEST SETUP	61





Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	26 Dec. 2019	STS1911280W06	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

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

FCC Part 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)(3)	Output Power	PASS	--
15.247 (c)	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	--
15.203	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 .



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 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	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 6.7\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 4.43\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 5\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G Android Push to Talk Phone														
Trade Name	ESTALKY														
Model Name	E618														
Series Model	N/A														
Model Difference	N/A														
Product Description	<p>The EUT is a 4G Android Push to Talk Phone</p> <table border="1"> <tr> <td>Operation Frequency:</td> <td>802.11b/g/n 20: 2412~2462 MHz</td> </tr> <tr> <td>Modulation Type:</td> <td>802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</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(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps</td> </tr> <tr> <td>Number of Channel:</td> <td>802.11b/g/n20: 11CH</td> </tr> <tr> <td>Antenna Designation:</td> <td>Please see Note 3.</td> </tr> <tr> <td>AntennaGain (dBi):</td> <td>1.0 dBi</td> </tr> <tr> <td>Duty Cycle:</td> <td>>98%</td> </tr> </table>	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps	Number of Channel:	802.11b/g/n20: 11CH	Antenna Designation:	Please see Note 3.	AntennaGain (dBi):	1.0 dBi	Duty Cycle:	>98%
Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz														
Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM														
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps														
Number of Channel:	802.11b/g/n20: 11CH														
Antenna Designation:	Please see Note 3.														
AntennaGain (dBi):	1.0 dBi														
Duty Cycle:	>98%														
Channel List	Please refer to the Note 2.														
Adapter	Input: 100-240V~ 50/60Hz, 0.35A Output: DC 5V 2A														
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 4800mA														
Hardware version number	V2.0														
Software versionnumber	6311_Estalky_E618_V1.00_20191120-1046.user														
Connecting I/O Port(s)	Please refer to the User's Manual														

Note:

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



2

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

3

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:
Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462

3

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	EST/ALKY	E618	PIFA	N/A	1.0 dBi	WLAN Antenna



2.2 DESCRIPTION OF THE TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

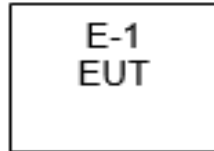
- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all available U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report

AC Conducted Emission

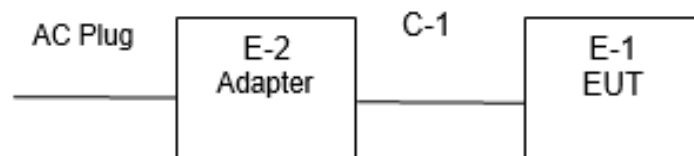
Test Case	
AC Conducted Emission	Mode10: Keeping WIFI TX

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



conduction Test Set





2.4 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.	Serial No.	Note
E-2	Adapter	N/A	DLX223-0520UA	N/A	N/A
C-1	DC Cable	N/A	110cm	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	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.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.5 EQUIPMENTS LISTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.7.29	2020.7.28
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2019.10.9	2020.10.8
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2019.10.12	2020.10.11
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.7.29	2020.7.28
LISN	R&S	ENV216	101242	2019.10.9	2020.10.8
LISN	EMCO	3810/2NM	23625	2019.10.9	2020.10.8
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2019.10.9	2020.10.8
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.9	2020.10.8
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	LZ-RF /LzRf-3A3			



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 15.207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (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.

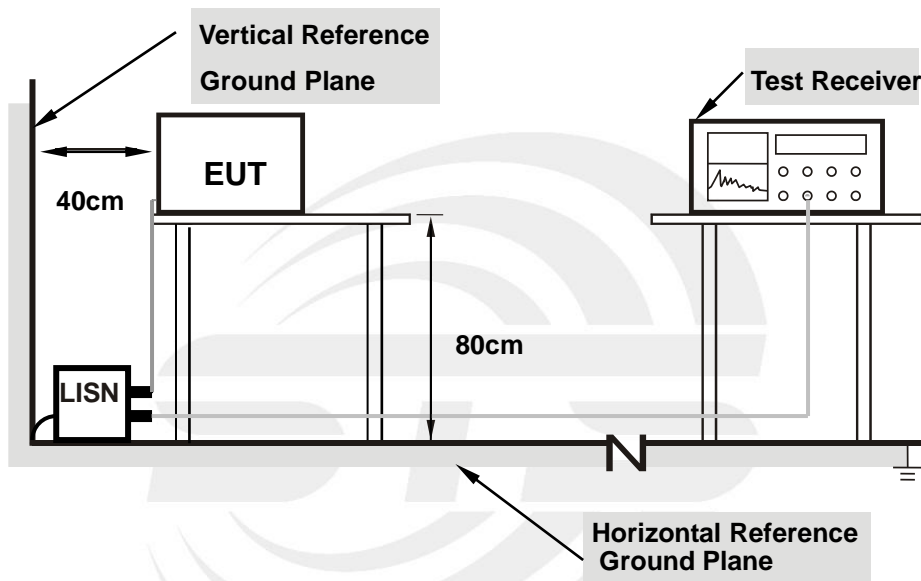
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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 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

3.1.4EUT 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.



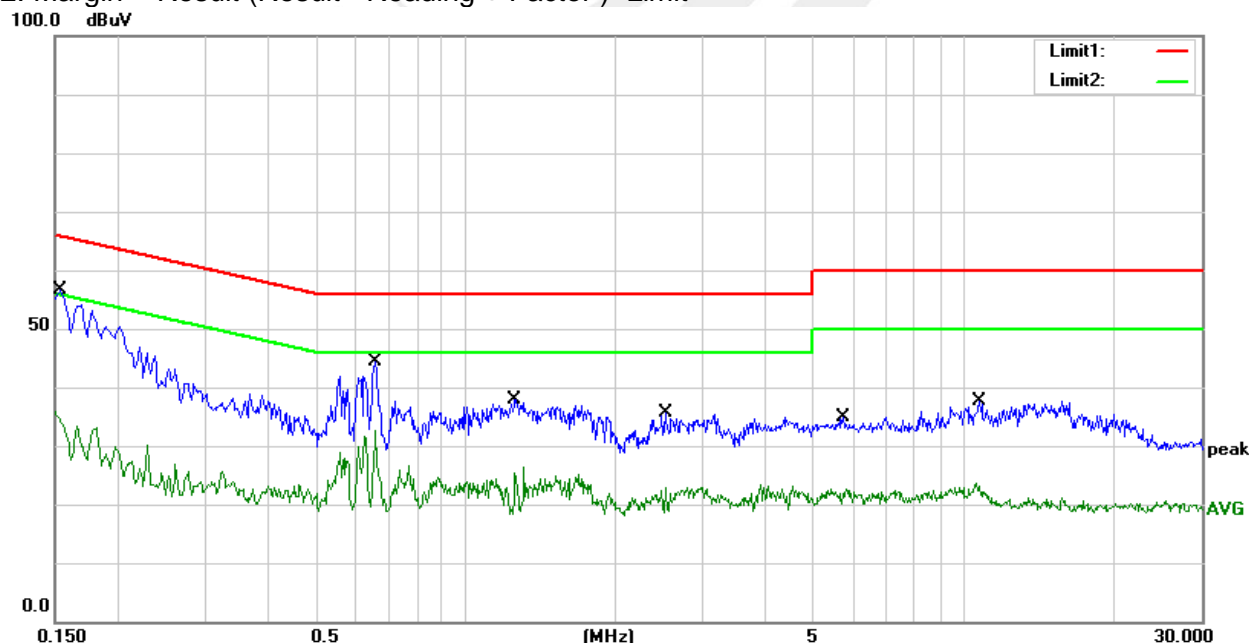
3.1.5 TEST RESULT

Temperature:	25.1(C)	Relative Humidity:	51%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 10		

No.	Frequen cy (MHz)	Reading (dBuV)	Correct Factor(d B)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	36.13	20.54	56.67	65.78	-9.11	QP
2	0.1540	15.24	20.54	35.78	55.78	-20.00	AVG
3	0.6580	24.15	20.12	44.27	56.00	-11.73	QP
4	0.6580	12.49	20.12	32.61	46.00	-13.39	AVG
5	1.2660	18.36	19.55	37.91	56.00	-18.09	QP
6	1.2660	7.10	19.55	26.65	46.00	-19.35	AVG
7	2.5220	15.51	20.06	35.57	56.00	-20.43	QP
8	2.5220	2.92	20.06	22.98	46.00	-23.02	AVG
9	5.7260	14.64	20.35	34.99	60.00	-25.01	QP
10	5.7260	2.74	20.35	23.09	50.00	-26.91	AVG
11	10.7620	17.09	20.61	37.70	60.00	-22.30	QP
12	10.7620	2.93	20.61	23.54	50.00	-26.46	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit



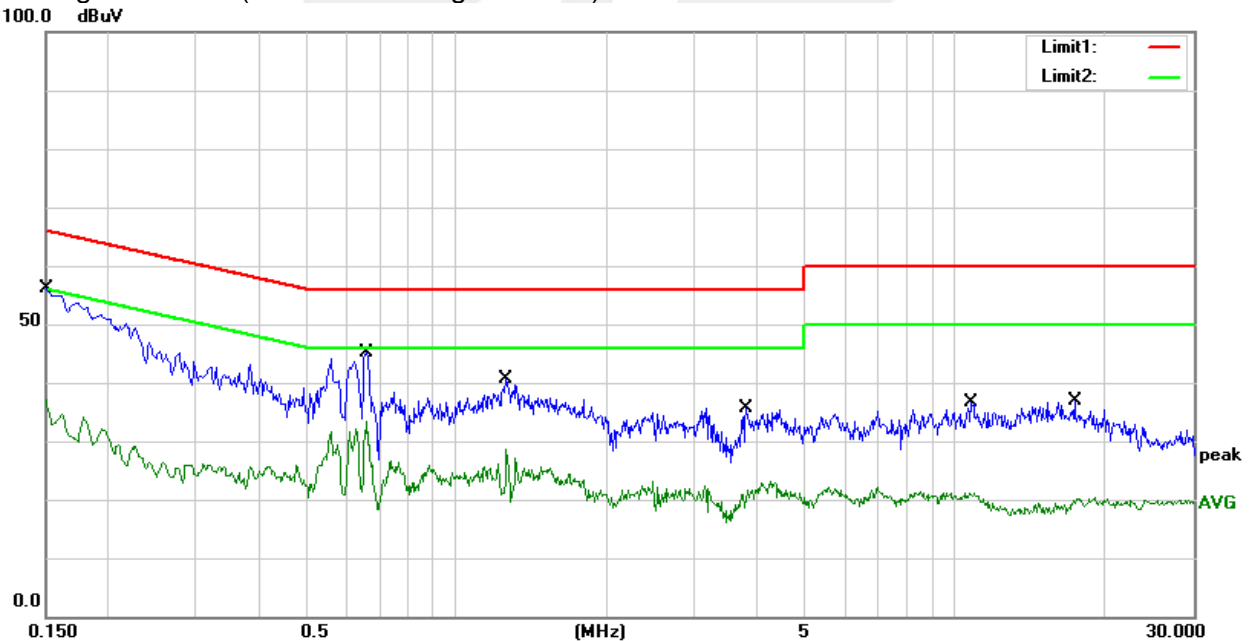


Temperature:	25.1(C)	Relative Humidity:	51%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	35.57	20.54	56.11	66.00	-9.89	QP
2	0.1500	16.53	20.54	37.07	56.00	-18.93	AVG
3	0.6580	25.04	20.12	45.16	56.00	-10.84	QP
4	0.6580	13.34	20.12	33.46	46.00	-12.54	AVG
5	1.2500	21.03	19.54	40.57	56.00	-15.43	QP
6	1.2500	9.02	19.54	28.56	46.00	-17.44	AVG
7	3.8060	15.35	20.27	35.62	56.00	-20.38	QP
8	3.8060	2.77	20.27	23.04	46.00	-22.96	AVG
9	10.7740	16.10	20.61	36.71	60.00	-23.29	QP
10	10.7740	0.73	20.61	21.34	50.00	-28.66	AVG
11	17.3180	15.71	21.05	36.76	60.00	-23.24	QP
12	17.3180	-0.57	21.05	20.48	50.00	-29.52	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micovolts/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 (1000MHz-25GHz)

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

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



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 2425 MHz Upper Band Edge: 2450 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

3.2.2 TEST PROCEDURE

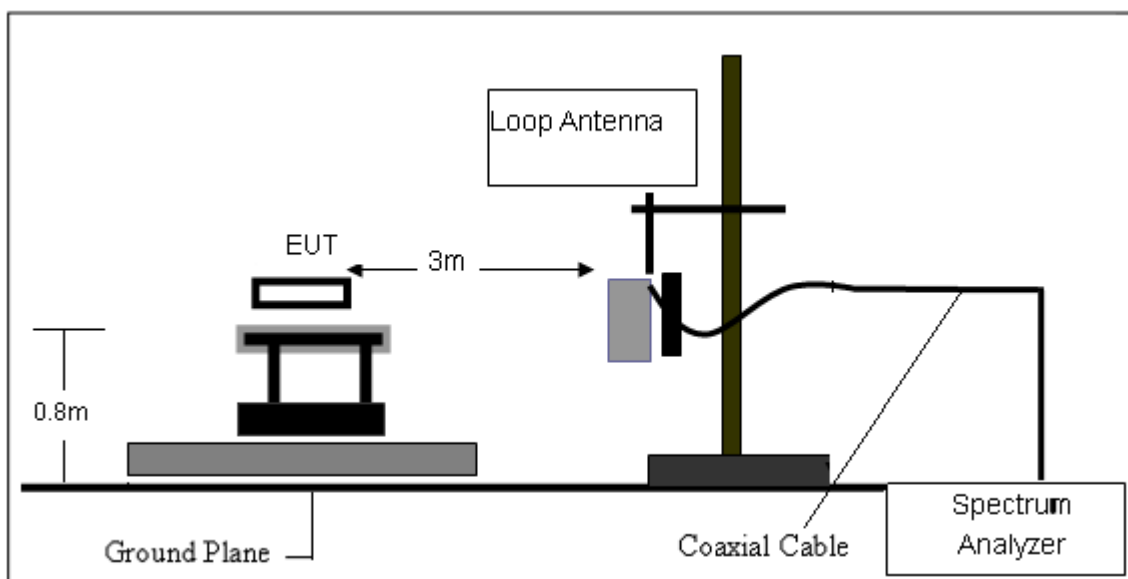
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position 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:

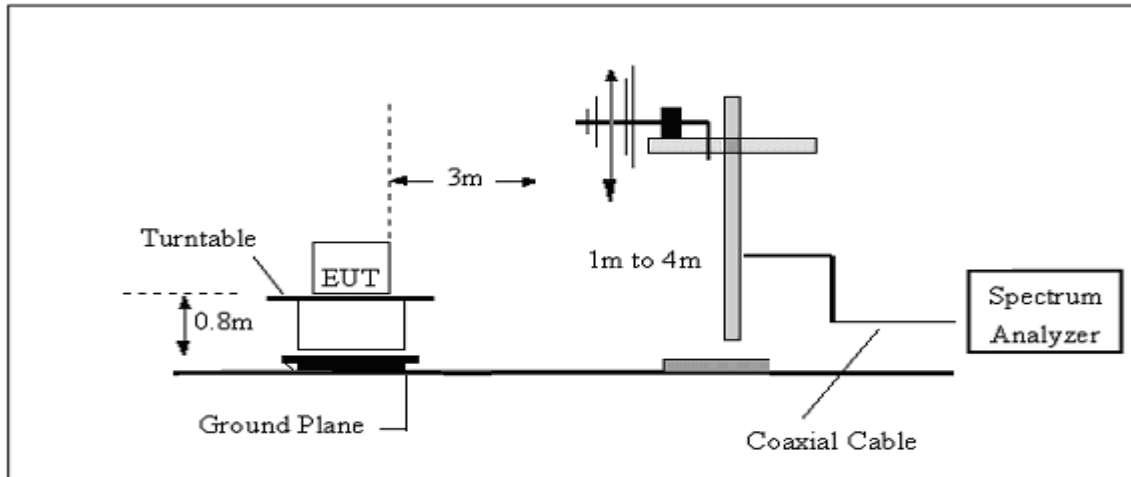
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

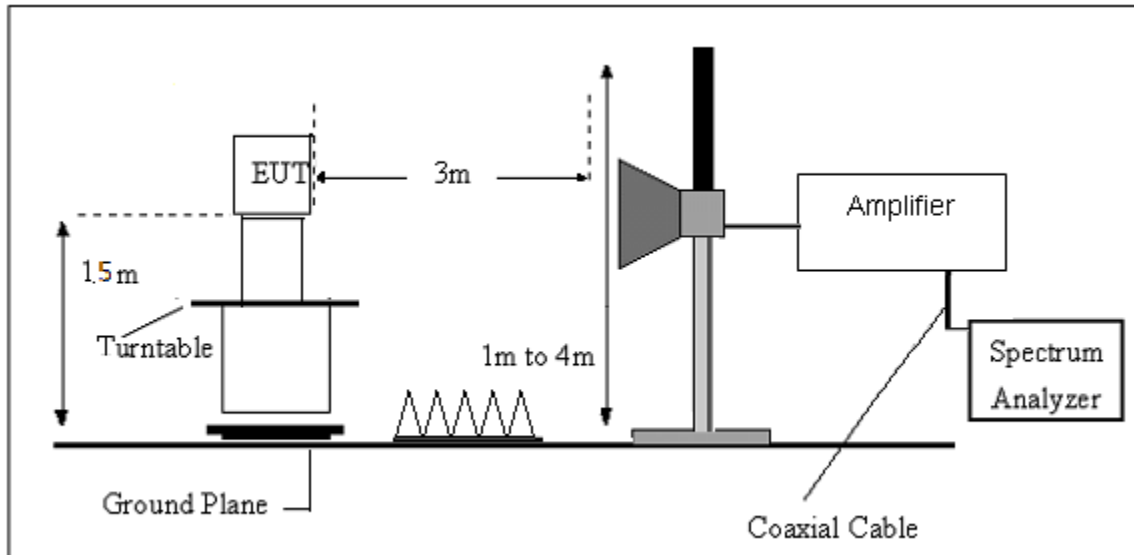
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 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.



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

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





3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	24.3(C)	Relative Humidity:	47%RH
Test Voltage:	DC 3.8V from battery	Polarization:	--
Test Mode:	TX Mode		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F	Test Result
--	--	--	--	--	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 = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

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



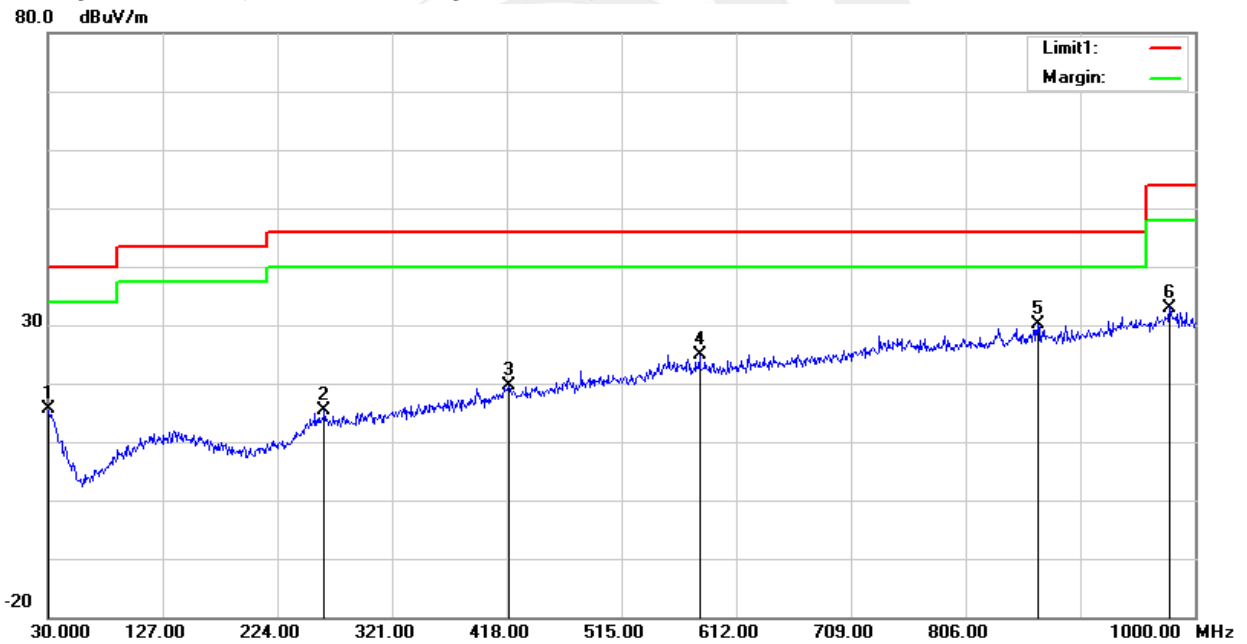
(30MHz - 1000MHz)

Temperature:	24.3(C)	Relative Humidity:	47%RH
Test Voltage:	DC 3.8V from battery	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	28.53	-12.85	15.68	40.00	-24.32	QP
2	263.7700	30.05	-14.75	15.30	46.00	-30.70	QP
3	419.9400	29.73	-10.09	19.64	46.00	-26.36	QP
4	580.9600	30.71	-5.76	24.95	46.00	-21.05	QP
5	867.1100	30.54	-0.50	30.04	46.00	-15.96	QP
6	978.6600	30.42	2.58	33.00	54.00	-21.00	QP

Remark:

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



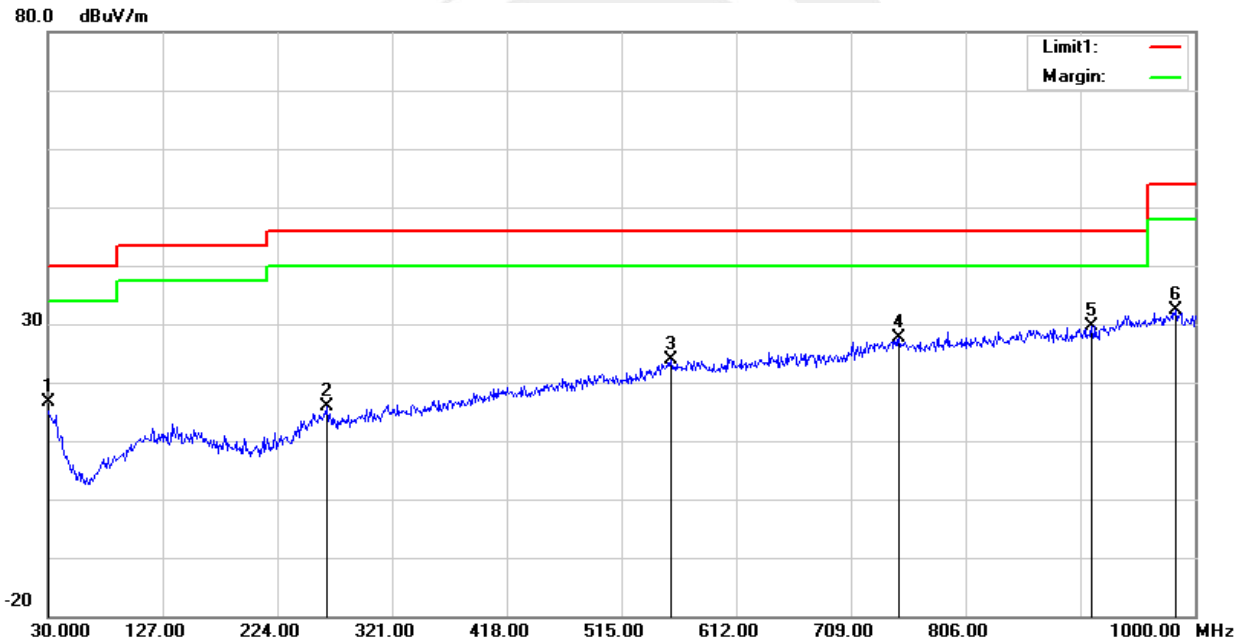


Temperature:	24.3(C)	Relative Humidity:	47%RH
Test Voltage:	DC 3.8V from battery	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	29.44	-12.85	16.59	40.00	-23.41	QP
2	265.7100	30.60	-14.83	15.77	46.00	-30.23	QP
3	556.7100	29.56	-5.58	23.98	46.00	-22.02	QP
4	749.7400	29.87	-2.16	27.71	46.00	-18.29	QP
5	912.7000	29.77	-0.14	29.63	46.00	-16.37	QP
6	983.5100	29.99	2.46	32.45	54.00	-21.55	QP

Remark:.

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





(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11n20

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Orrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11n20/2412 MHz)										
3264.66	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Vertical
3264.66	50.81	44.70	6.70	28.20	-9.80	41.01	54.00	-12.99	AV	Vertical
3264.80	60.89	44.70	6.70	28.20	-9.80	51.09	74.00	-22.91	PK	Horizontal
3264.80	51.00	44.70	6.70	28.20	-9.80	41.20	54.00	-12.80	AV	Horizontal
4824.56	59.02	44.20	9.04	31.60	-3.56	55.46	74.00	-18.54	PK	Vertical
4824.56	49.89	44.20	9.04	31.60	-3.56	46.33	54.00	-7.67	AV	Vertical
4824.56	59.38	44.20	9.04	31.60	-3.56	55.82	74.00	-18.18	PK	Horizontal
4824.56	49.41	44.20	9.04	31.60	-3.56	45.85	54.00	-8.15	AV	Horizontal
5359.68	49.37	44.20	9.86	32.00	-2.34	47.03	74.00	-26.97	PK	Vertical
5359.68	39.43	44.20	9.86	32.00	-2.34	37.09	54.00	-16.91	AV	Vertical
5359.74	47.75	44.20	9.86	32.00	-2.34	45.41	74.00	-28.59	PK	Horizontal
5359.74	38.83	44.20	9.86	32.00	-2.34	36.49	54.00	-17.51	AV	Horizontal
7235.79	54.77	43.50	11.40	35.50	3.40	58.17	74.00	-15.83	PK	Vertical
7235.79	44.71	43.50	11.40	35.50	3.40	48.11	54.00	-5.89	AV	Vertical
7235.90	54.06	43.50	11.40	35.50	3.40	57.46	74.00	-16.54	PK	Horizontal
7235.90	44.32	43.50	11.40	35.50	3.40	47.72	54.00	-6.28	AV	Vertical
Middle Channel (802.11n20/2437 MHz)										
3264.64	61.45	44.70	6.70	28.20	-9.80	51.65	74.00	-22.35	PK	Vertical
3264.64	50.82	44.70	6.70	28.20	-9.80	41.02	54.00	-12.98	AV	Vertical
3264.75	62.00	44.70	6.70	28.20	-9.80	52.20	74.00	-21.80	PK	Horizontal
3264.75	51.07	44.70	6.70	28.20	-9.80	41.27	54.00	-12.73	AV	Horizontal
4874.50	58.83	44.20	9.04	31.60	-3.56	55.27	74.00	-18.73	PK	Vertical
4874.50	49.83	44.20	9.04	31.60	-3.56	46.27	54.00	-7.73	AV	Vertical
4874.55	58.93	44.20	9.04	31.60	-3.56	55.37	74.00	-18.63	PK	Horizontal
4874.55	49.35	44.20	9.04	31.60	-3.56	45.79	54.00	-8.21	AV	Horizontal
5359.65	49.12	44.20	9.86	32.00	-2.34	46.78	74.00	-27.22	PK	Vertical
5359.65	40.16	44.20	9.86	32.00	-2.34	37.82	54.00	-16.18	AV	Vertical
5359.68	47.38	44.20	9.86	32.00	-2.34	45.04	74.00	-28.96	PK	Horizontal
5359.68	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7310.93	54.04	43.50	11.40	35.50	3.40	57.44	74.00	-16.56	PK	Vertical
7310.93	44.68	43.50	11.40	35.50	3.40	48.08	54.00	-5.92	AV	Vertical
7310.70	54.55	43.50	11.40	35.50	3.40	57.95	74.00	-16.05	PK	Horizontal
7310.70	43.95	43.50	11.40	35.50	3.40	47.35	54.00	-6.65	AV	Horizontal



High Channel (802.11n20/2462 MHz)										
3264.80	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Vertical
3264.80	50.42	44.70	6.70	28.20	-9.80	40.62	54.00	-13.38	AV	Vertical
3264.70	61.70	44.70	6.70	28.20	-9.80	51.90	74.00	-22.10	PK	Horizontal
3264.70	50.47	44.70	6.70	28.20	-9.80	40.67	54.00	-13.33	AV	Horizontal
4924.35	59.52	44.20	9.04	31.60	-3.56	55.96	74.00	-18.04	PK	Vertical
4924.35	49.91	44.20	9.04	31.60	-3.56	46.35	54.00	-7.65	AV	Vertical
4924.43	59.50	44.20	9.04	31.60	-3.56	55.94	74.00	-18.06	PK	Horizontal
4924.43	50.33	44.20	9.04	31.60	-3.56	46.77	54.00	-7.23	AV	Horizontal
5359.85	48.06	44.20	9.86	32.00	-2.34	45.72	74.00	-28.28	PK	Vertical
5359.85	39.10	44.20	9.86	32.00	-2.34	36.76	54.00	-17.24	AV	Vertical
5359.82	47.30	44.20	9.86	32.00	-2.34	44.96	74.00	-29.04	PK	Horizontal
5359.82	38.98	44.20	9.86	32.00	-2.34	36.64	54.00	-17.36	AV	Horizontal
7385.83	53.73	43.50	11.40	35.50	3.40	57.13	74.00	-16.87	PK	Vertical
7385.83	44.26	43.50	11.40	35.50	3.40	47.66	54.00	-6.34	AV	Vertical
7385.75	54.46	43.50	11.40	35.50	3.40	57.86	74.00	-16.14	PK	Horizontal
7385.75	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Scan with 802.11b, 802.11g, 802.11n (HT-20), the worst case is 802.11n (HT-20).

Emission Level = Reading + Factor

Margin = Limit - Emission Level

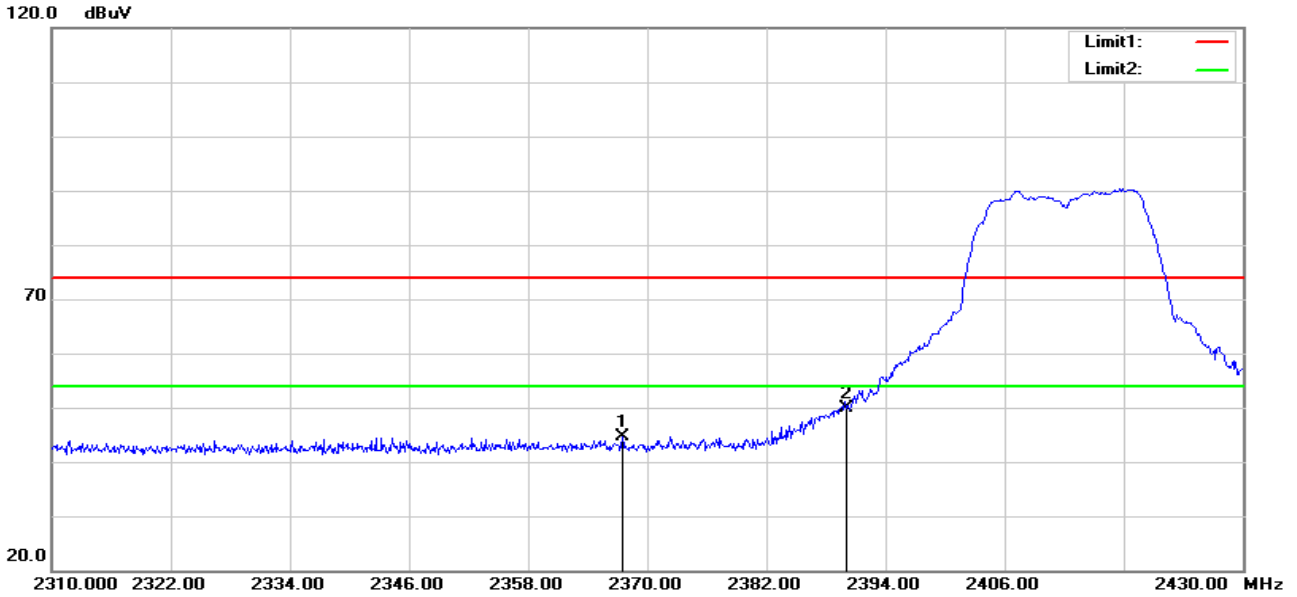
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.6 TEST RESULTS(Band edge Requirements)

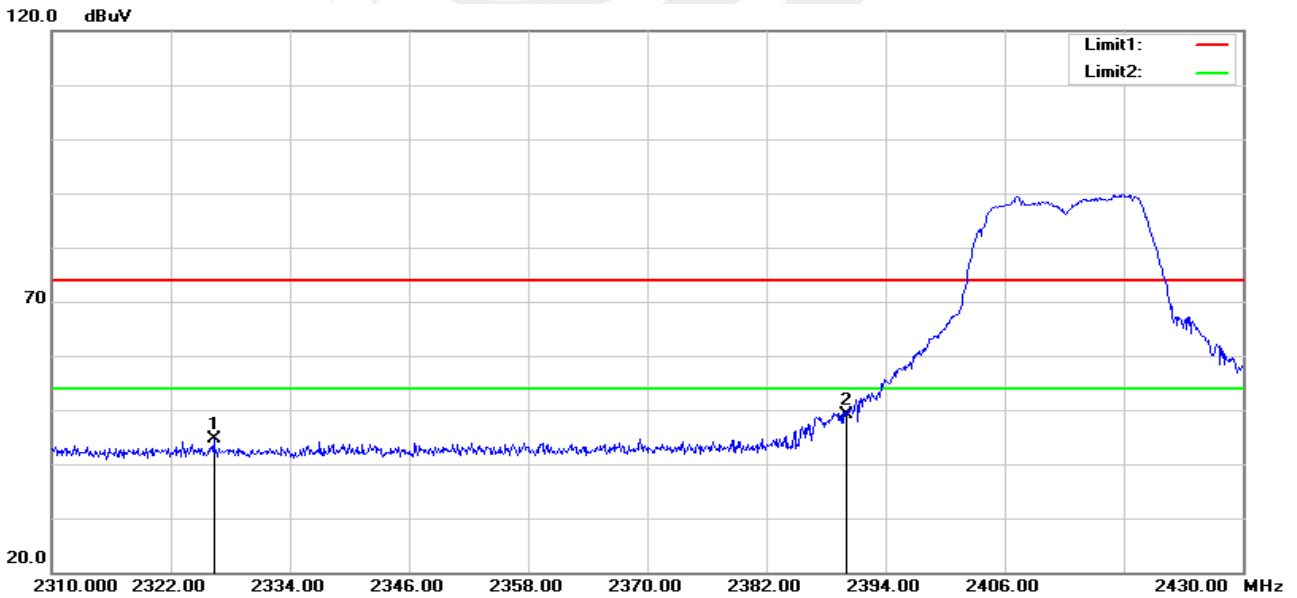
802.11n20-Low

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2367.480	40.67	4.00	44.67	74.00	-29.33	peak
2	2390.000	45.44	4.34	49.78	74.00	-24.22	peak

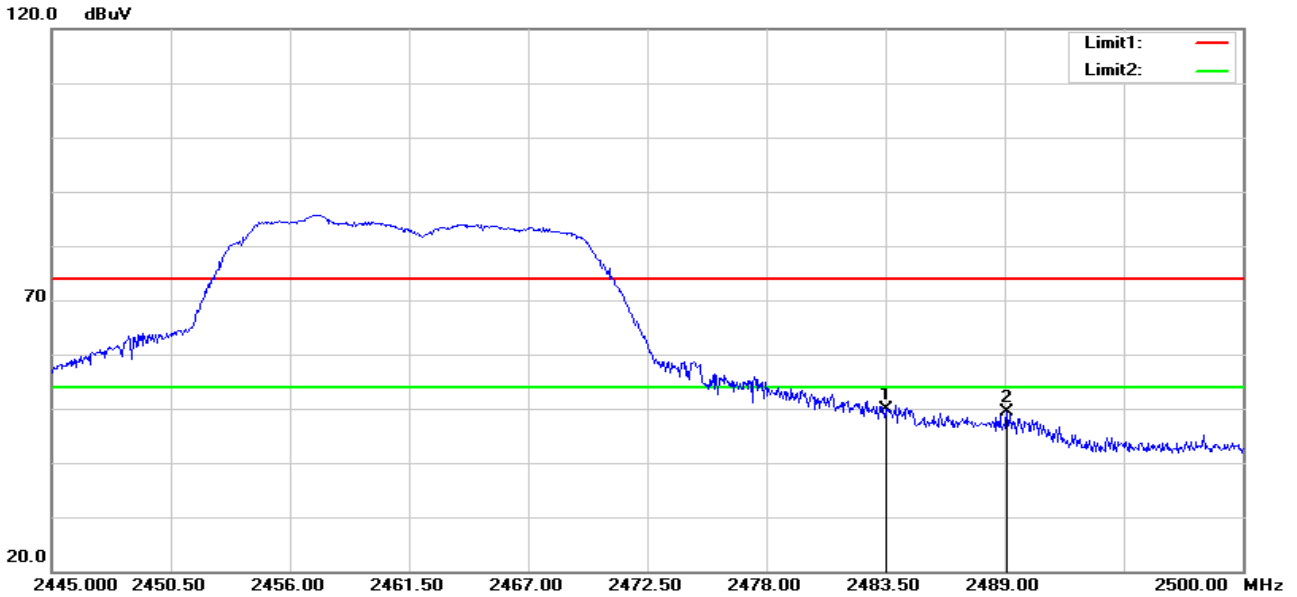
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2326.320	40.91	3.61	44.52	74.00	-29.48	peak
2	2390.000	44.71	4.34	49.05	74.00	-24.95	peak

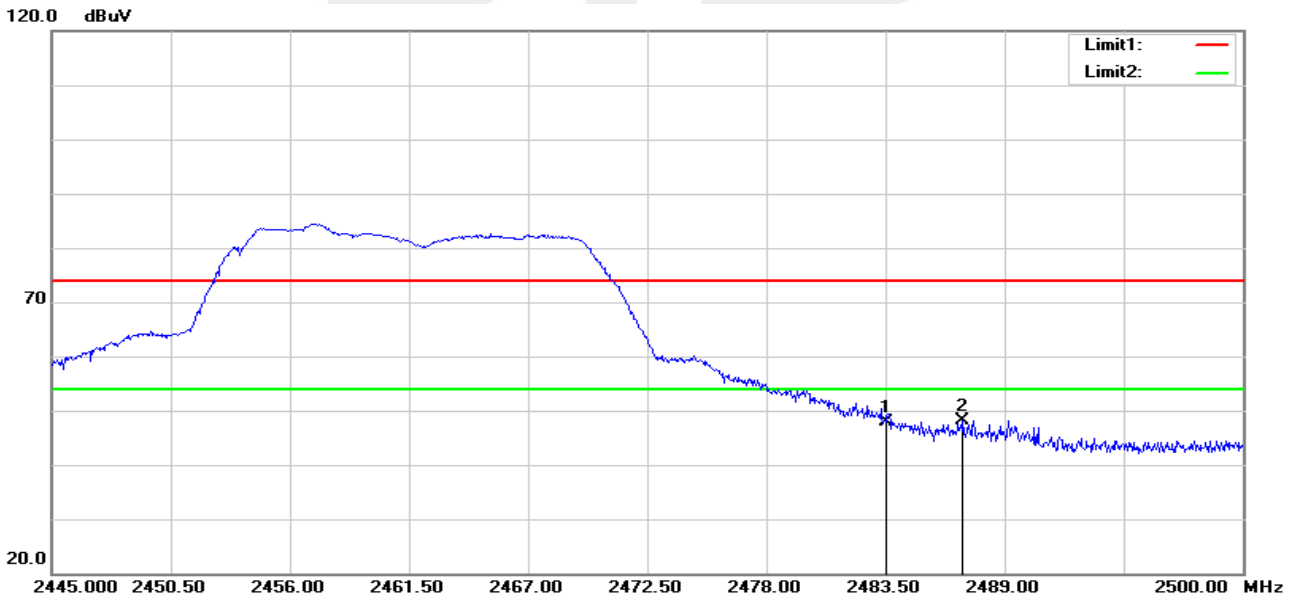


802.11n20-High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	45.26	4.60	49.86	74.00	-24.14	peak
2	2489.110	44.80	4.62	49.42	74.00	-24.58	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	43.19	4.60	47.79	74.00	-26.21	peak
2	2487.075	43.60	4.62	48.22	74.00	-25.78	peak

Note: 802.11b, 802.11g, 802.11n (HT-20) mode all have been tested, the worst case is 802.11n20, only show the worst case.

4.CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), 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.

4.2 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 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 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 50Ohm; 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.

4.5 EUT OPERATION CONDITIONS

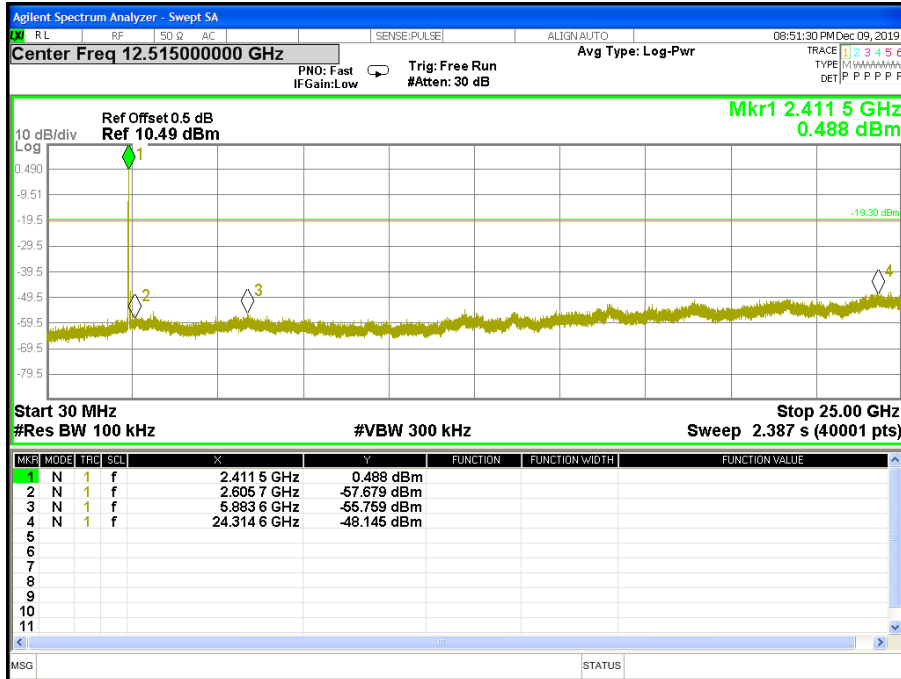
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



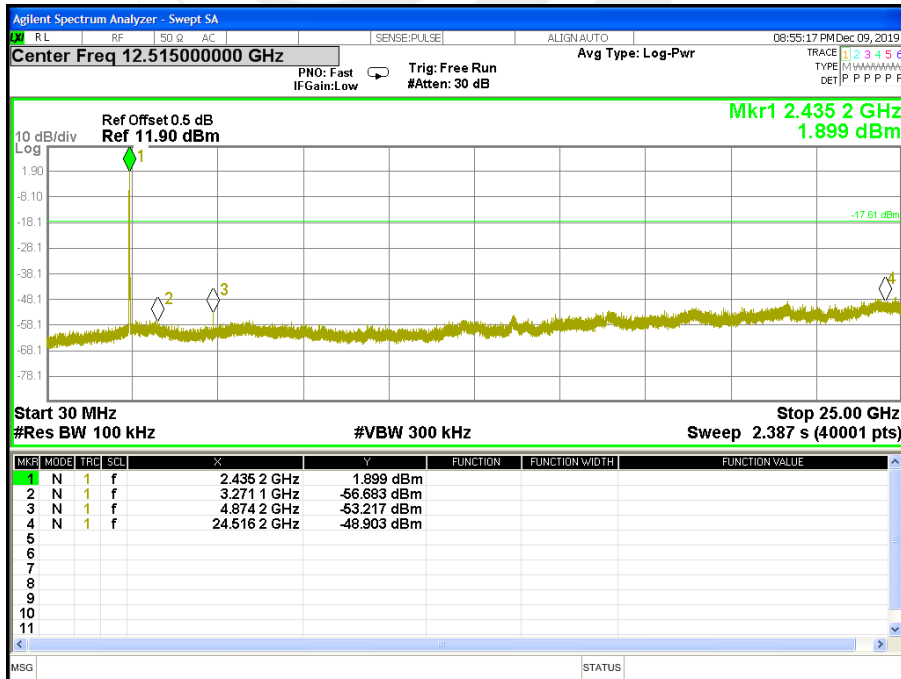
4.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01

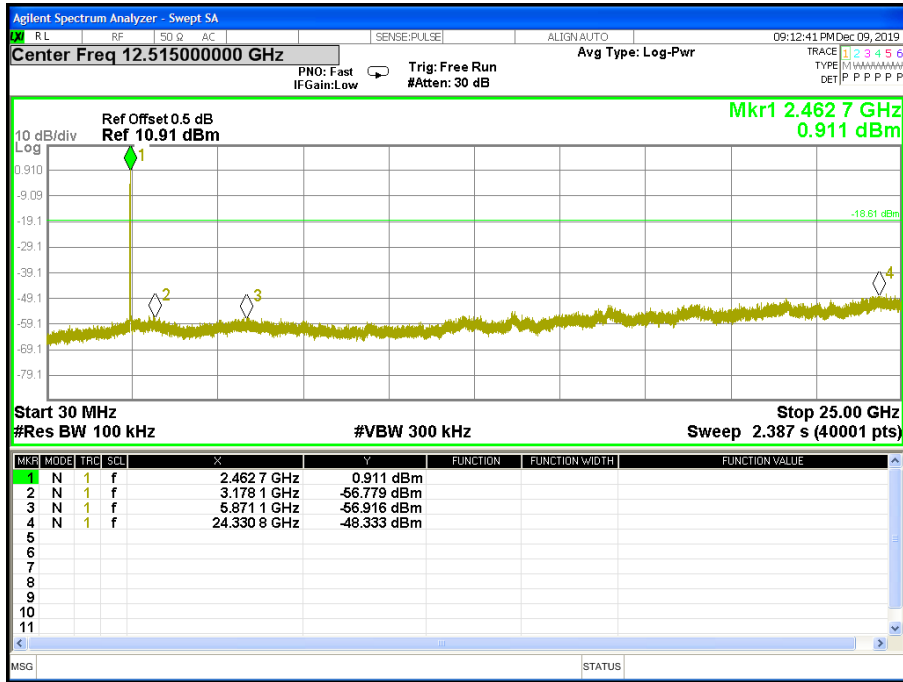


CH 06





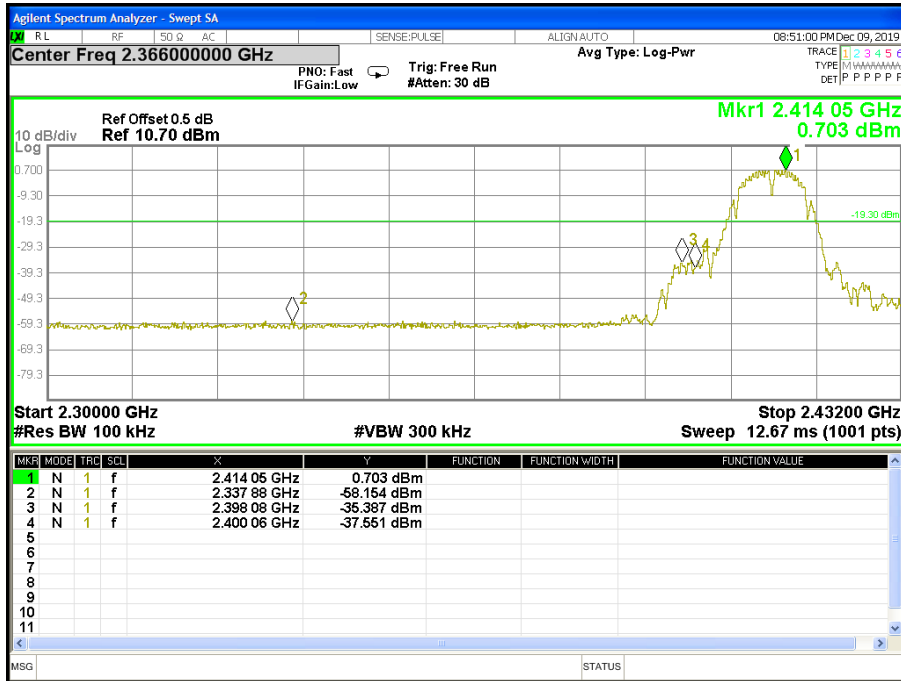
CH 11





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

CH 01

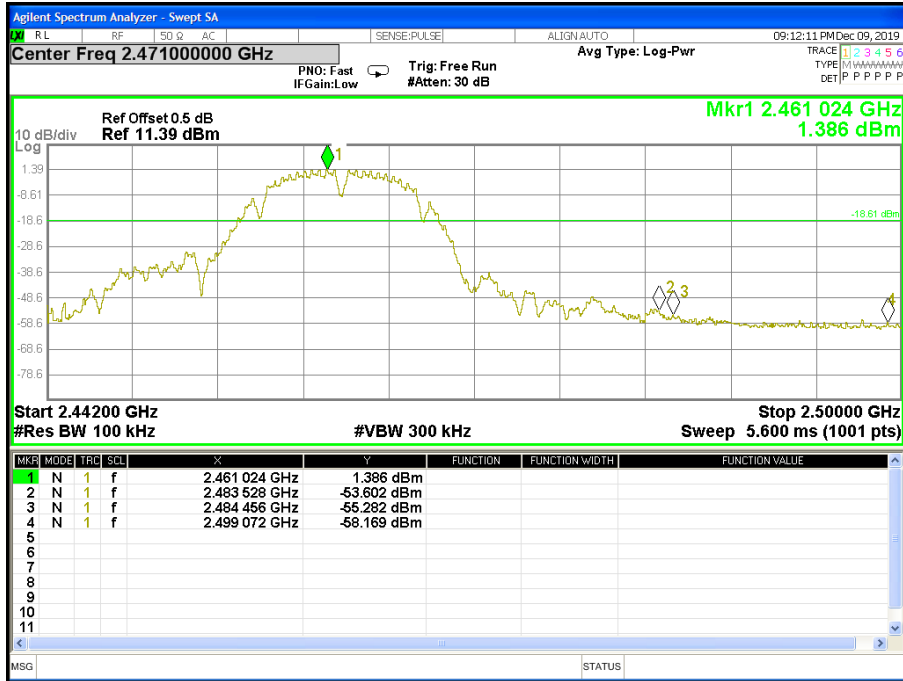


CH 06





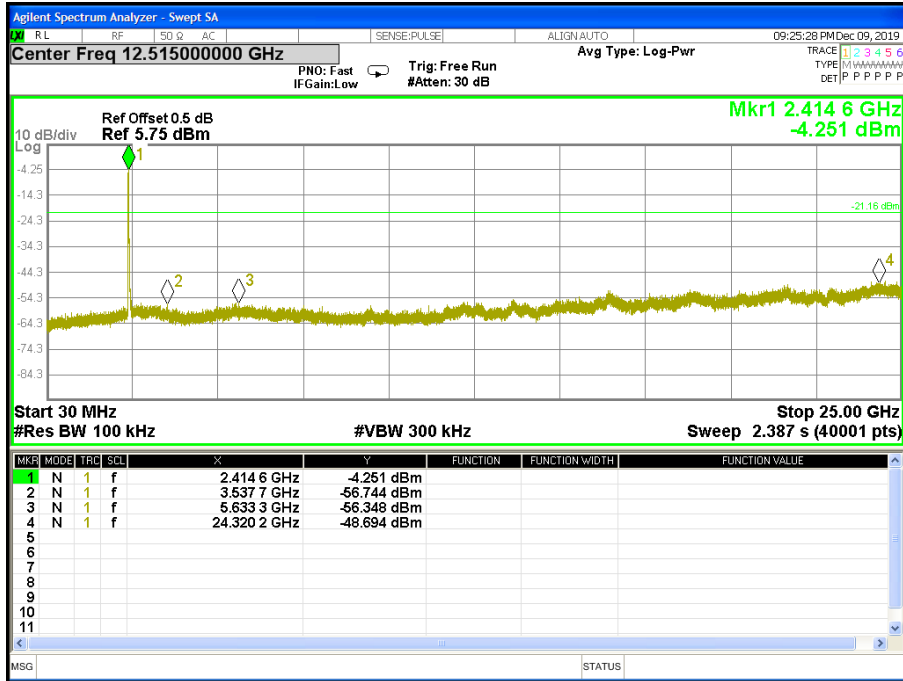
CH 11



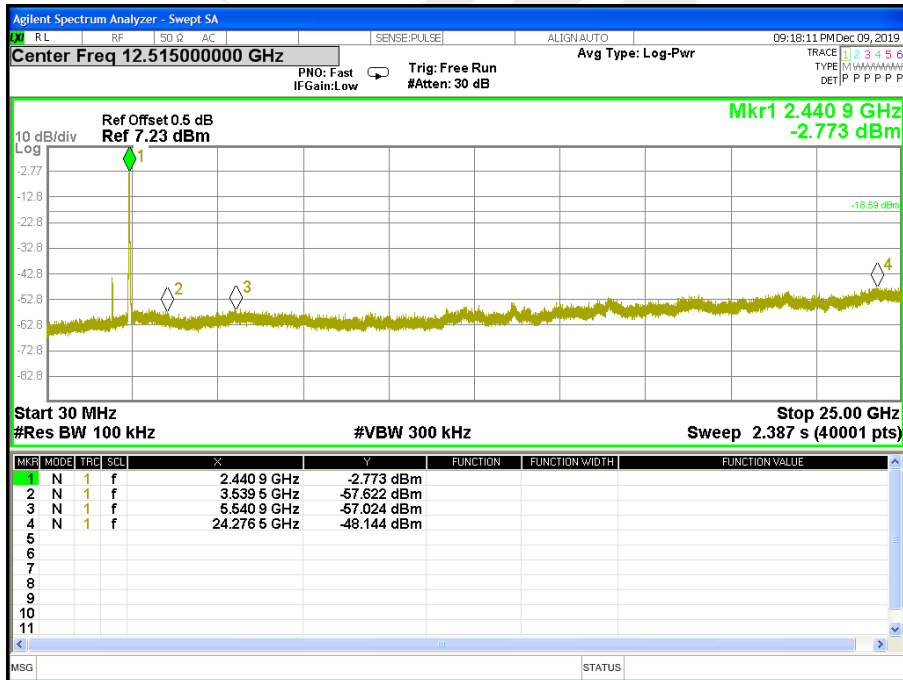


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX g Mode /CH01, CH06, CH11

CH 01

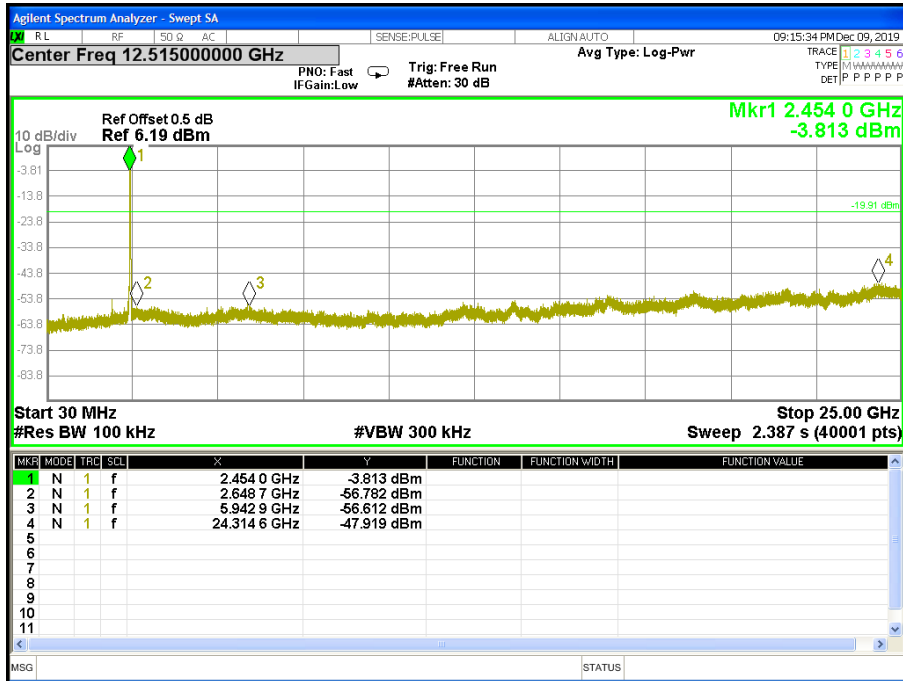


CH06





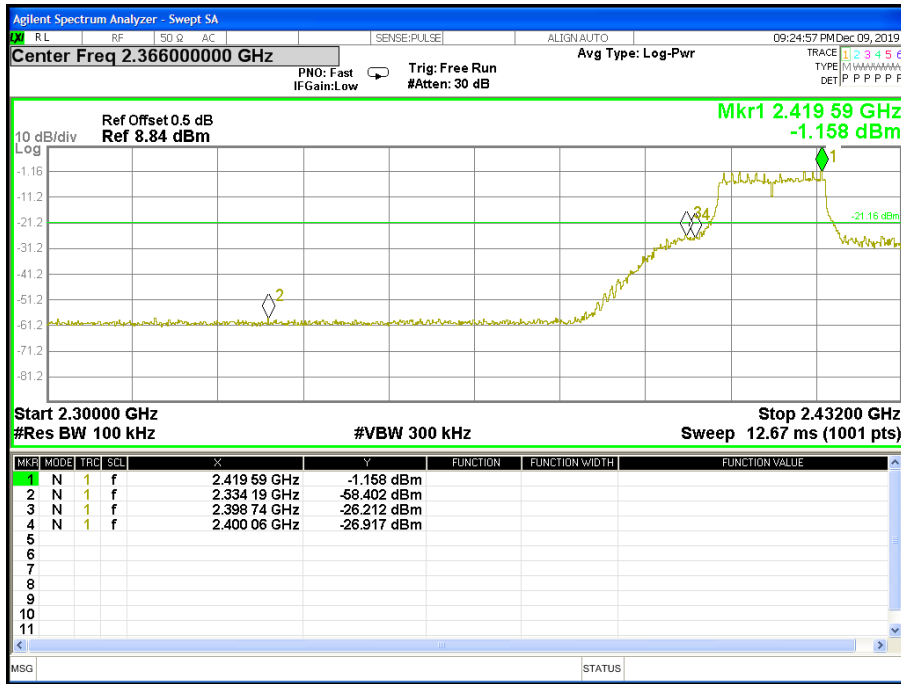
CH 11



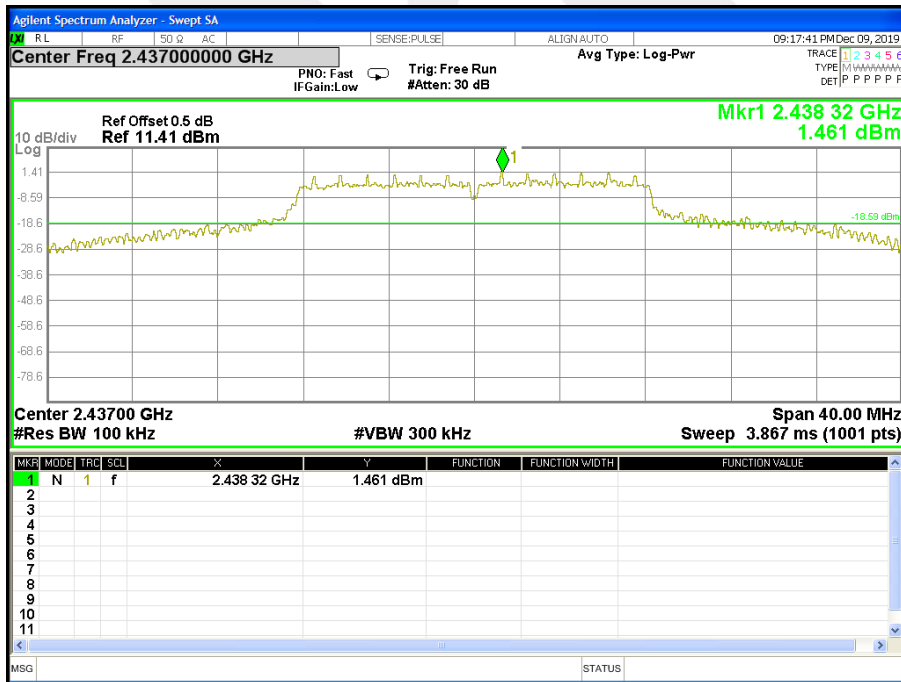


Band edge(it's also the reference level for conducted spurious emission)

CH 01

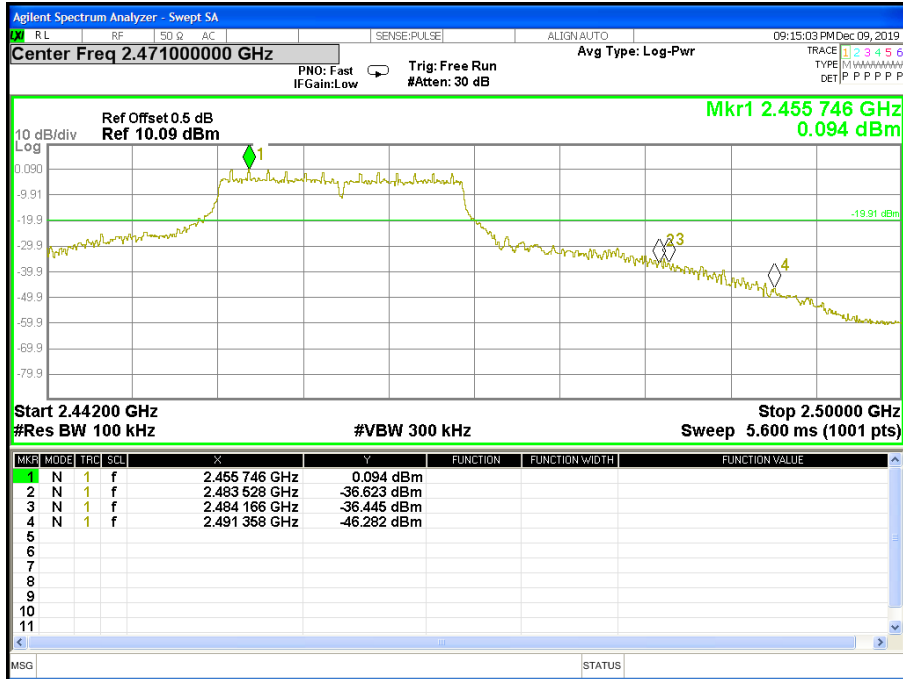


CH06





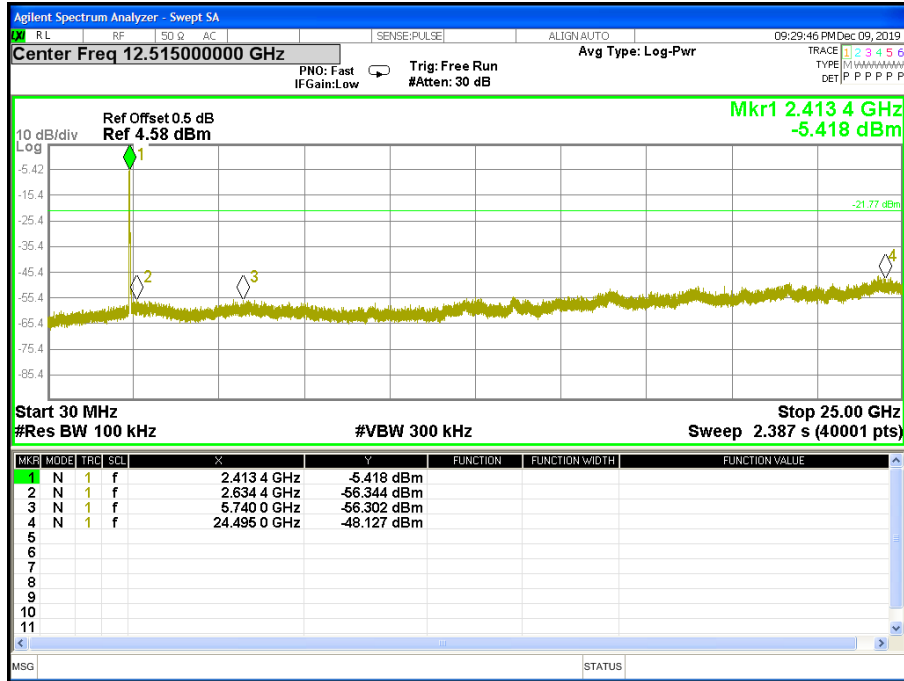
CH11



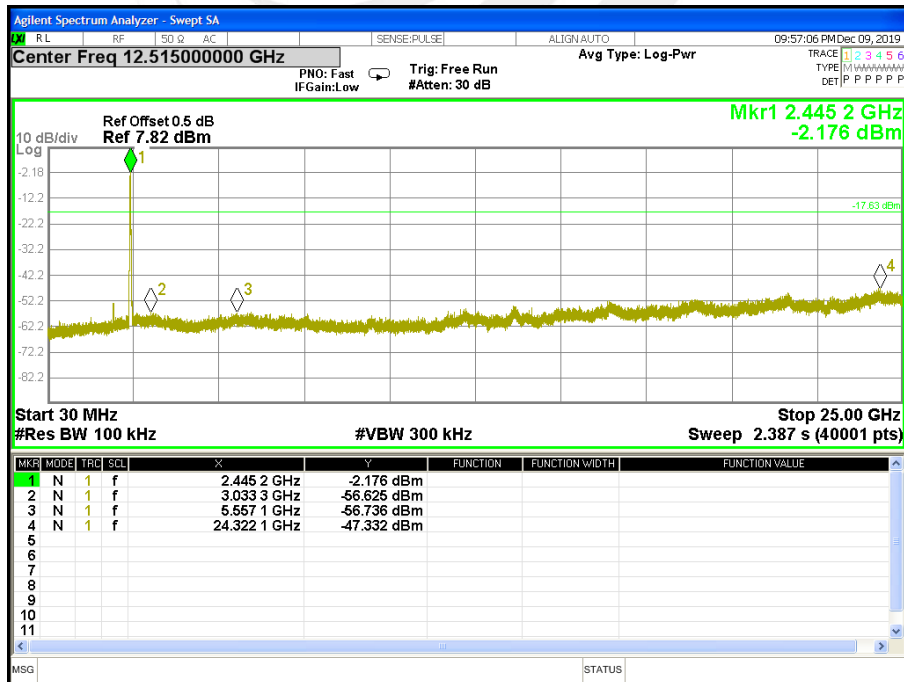


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

CH 01

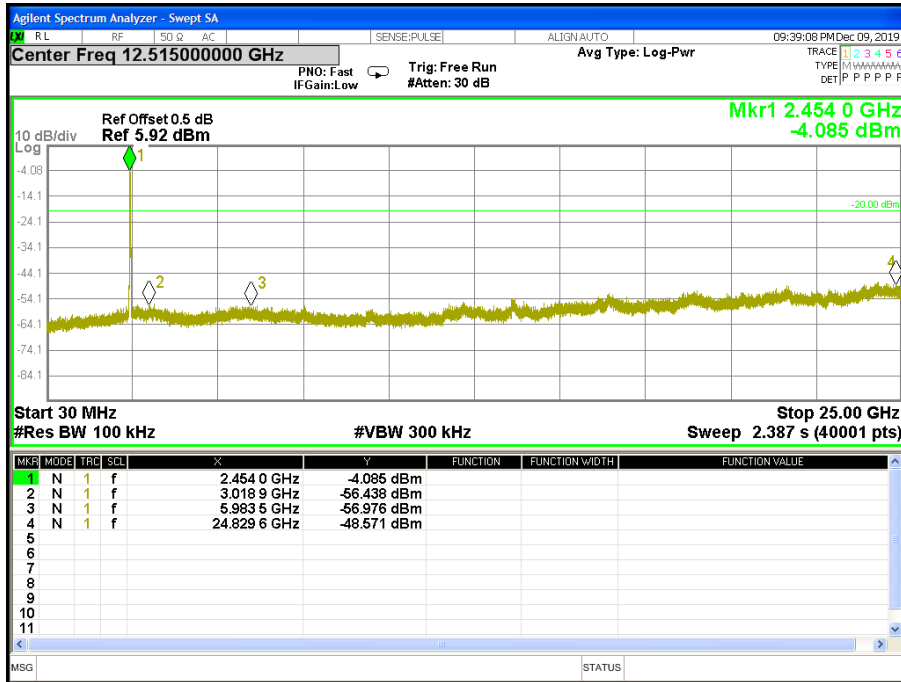


CH 06





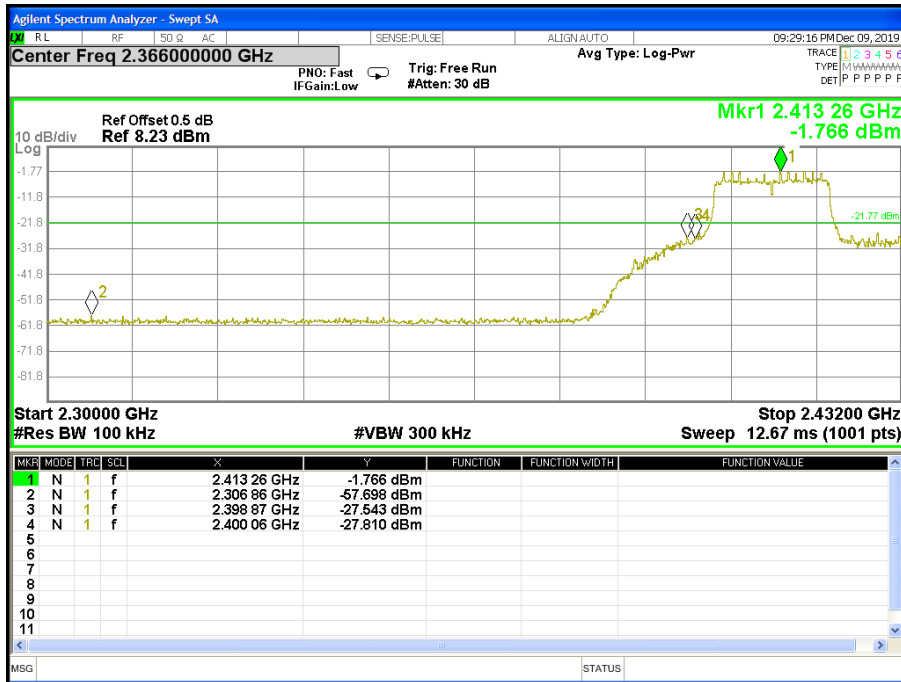
CH 11



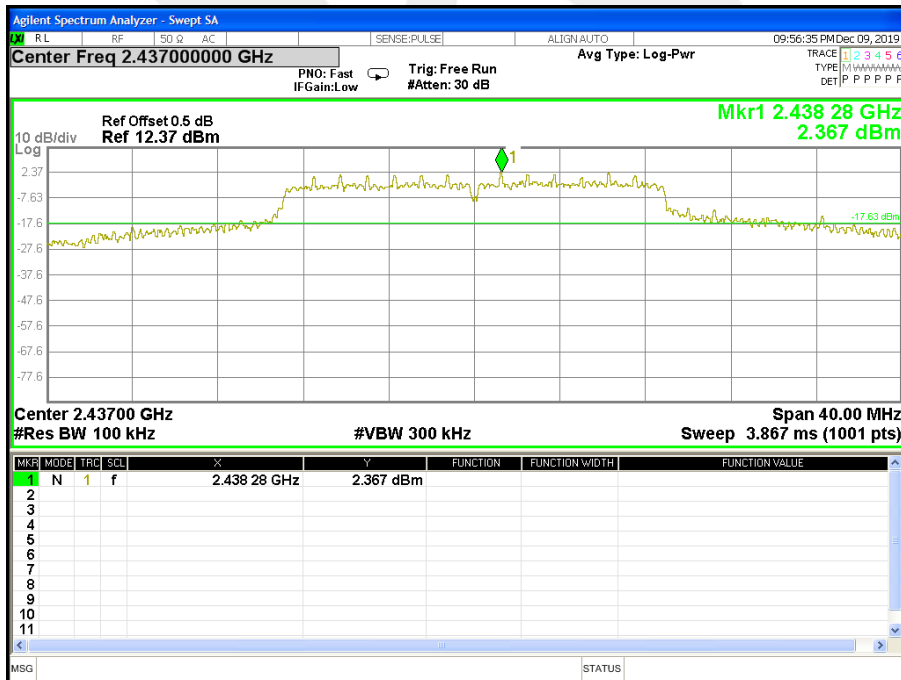


Band edge(it's also the reference level for conducted spurious emission)

CH 01

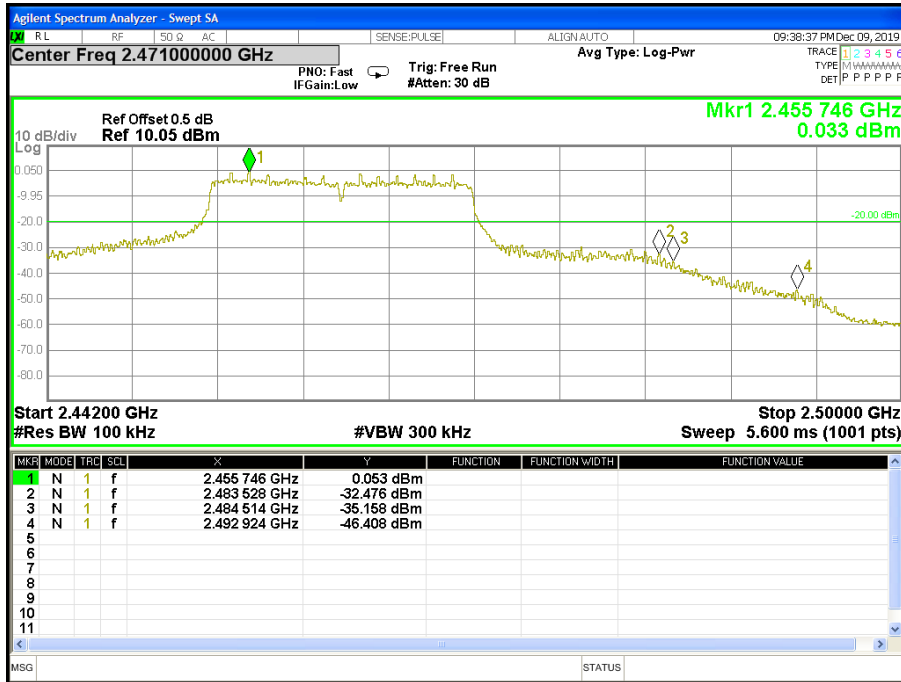


CH 06





CH 11





5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	2400-2483.5	PASS

5.2 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 $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
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.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 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.

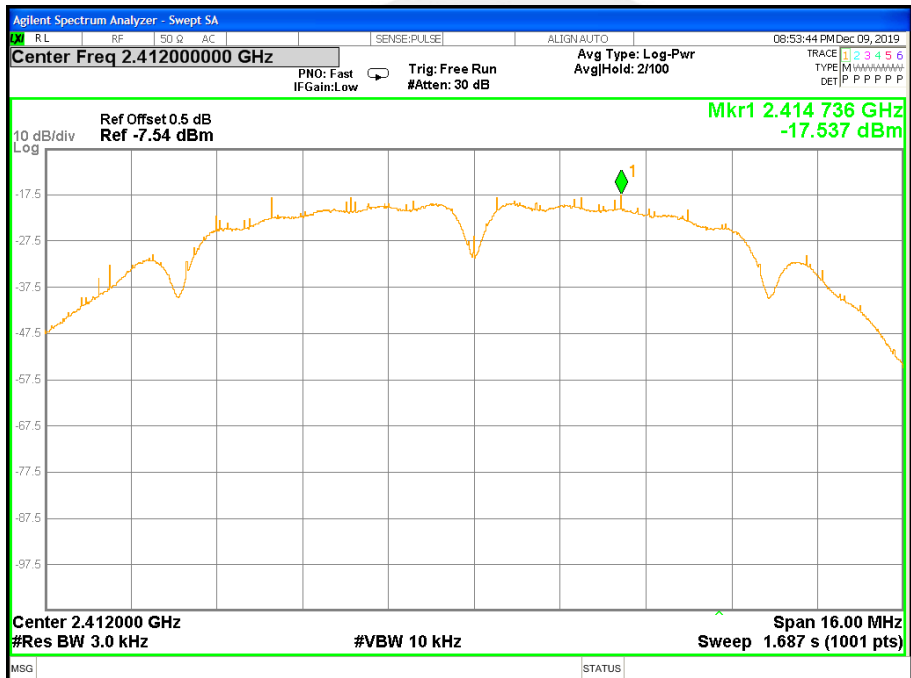


5.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX b Mode /CH01, CH06, CH11

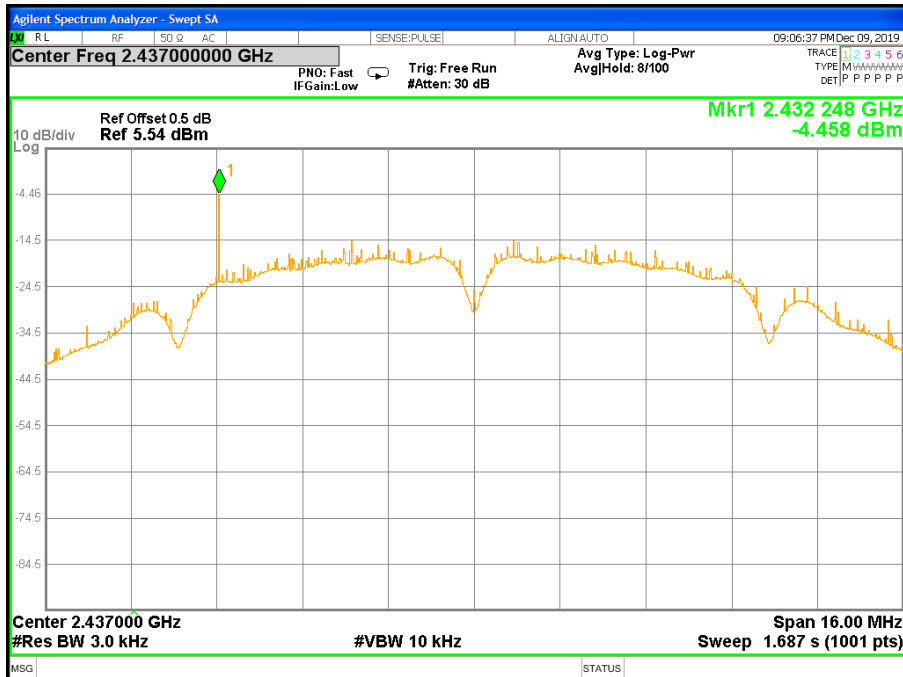
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-17.537	≤8	PASS
2437 MHz	-4.458	≤8	PASS
2462 MHz	-0.677	≤8	PASS

TX CH01

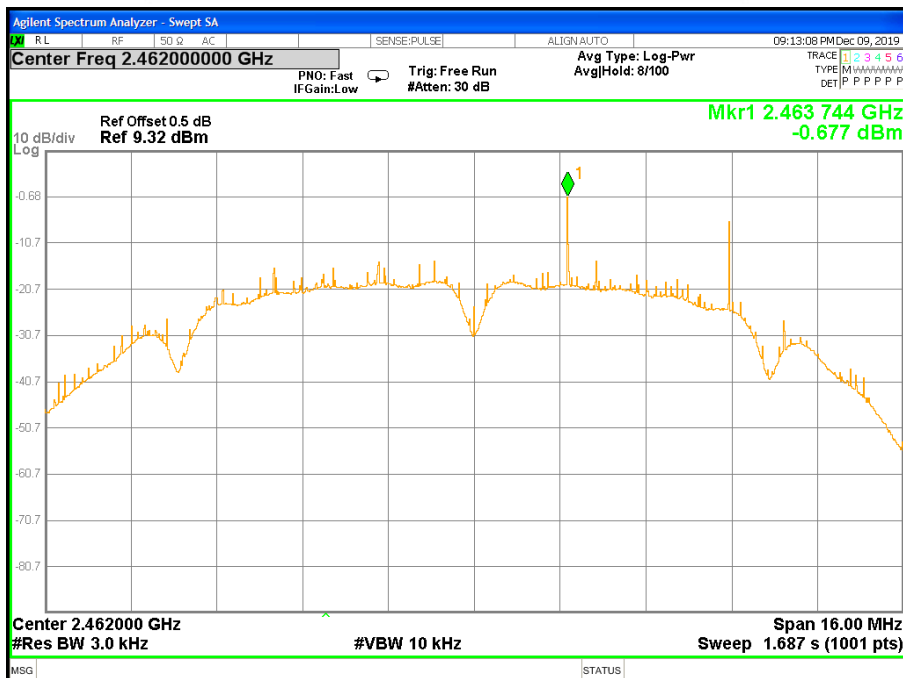




TX CH06



TX CH11

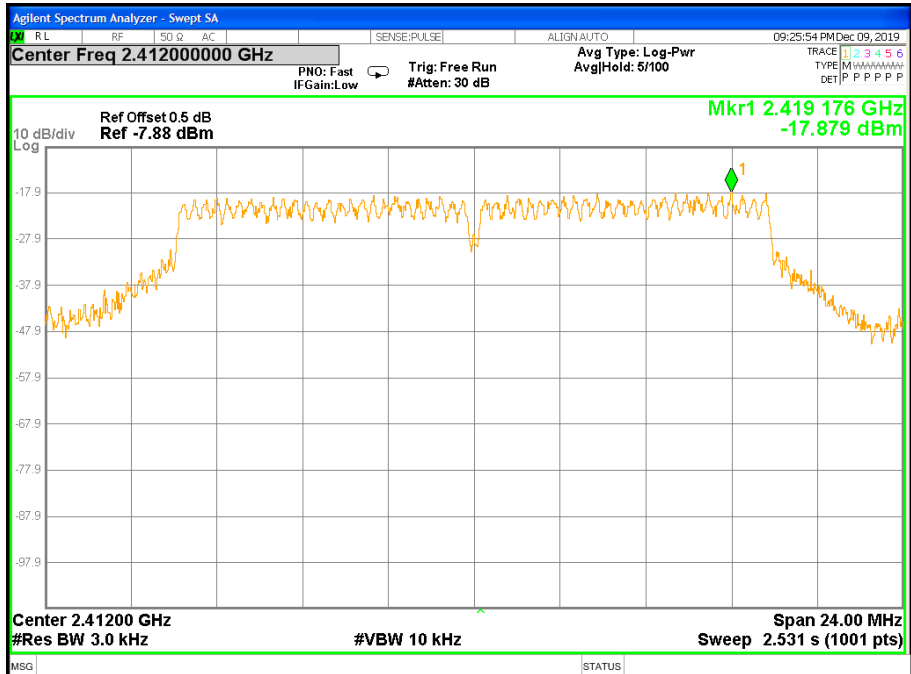




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX g Mode /CH01, CH06, CH11

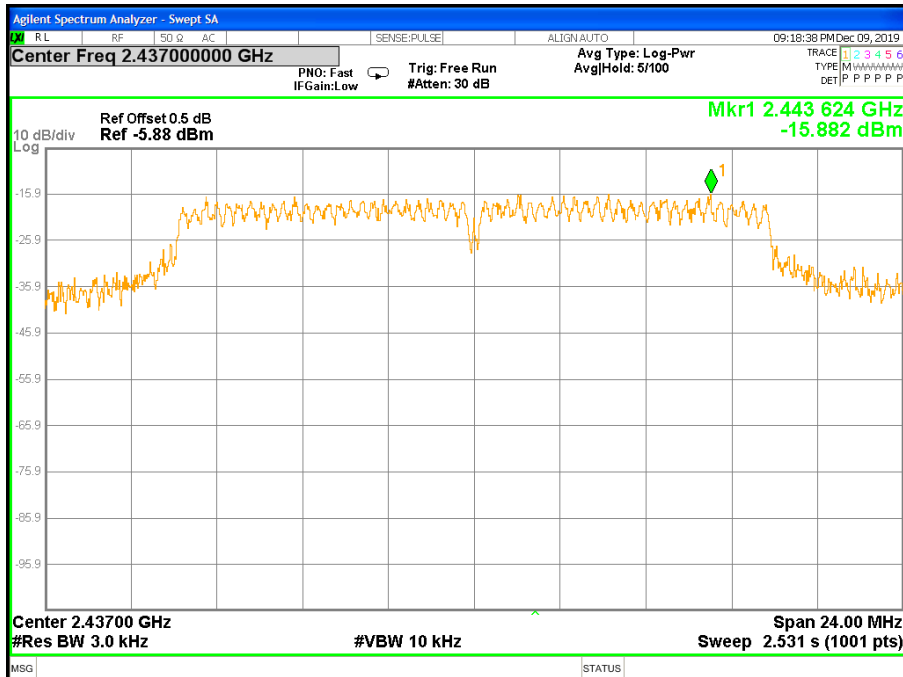
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-17.879	≤8	PASS
2437 MHz	-15.882	≤8	PASS
2462 MHz	-16.642	≤8	PASS

TX CH01

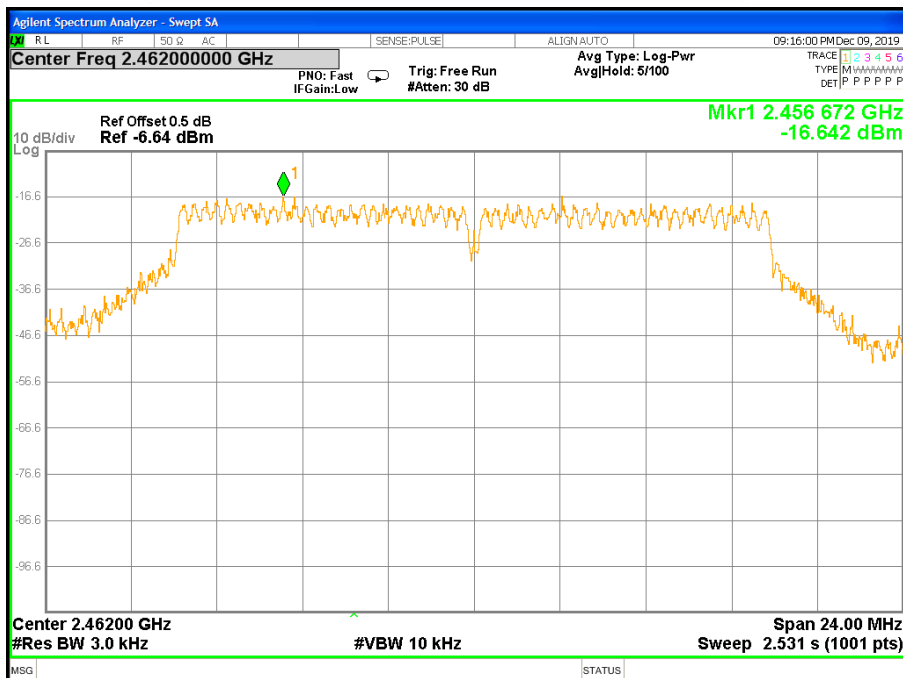




TX CH06



TX CH11

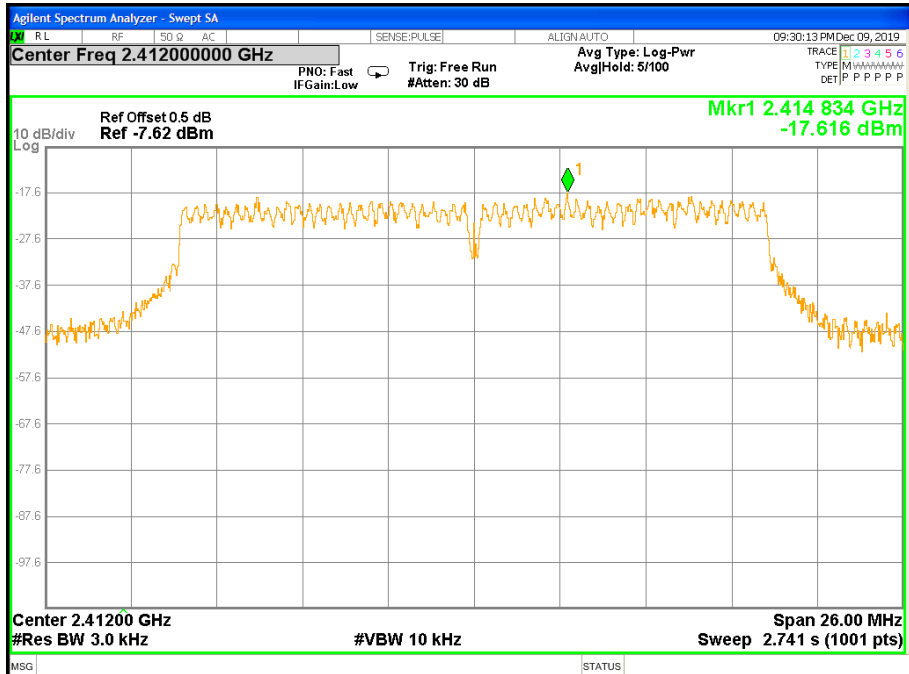




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

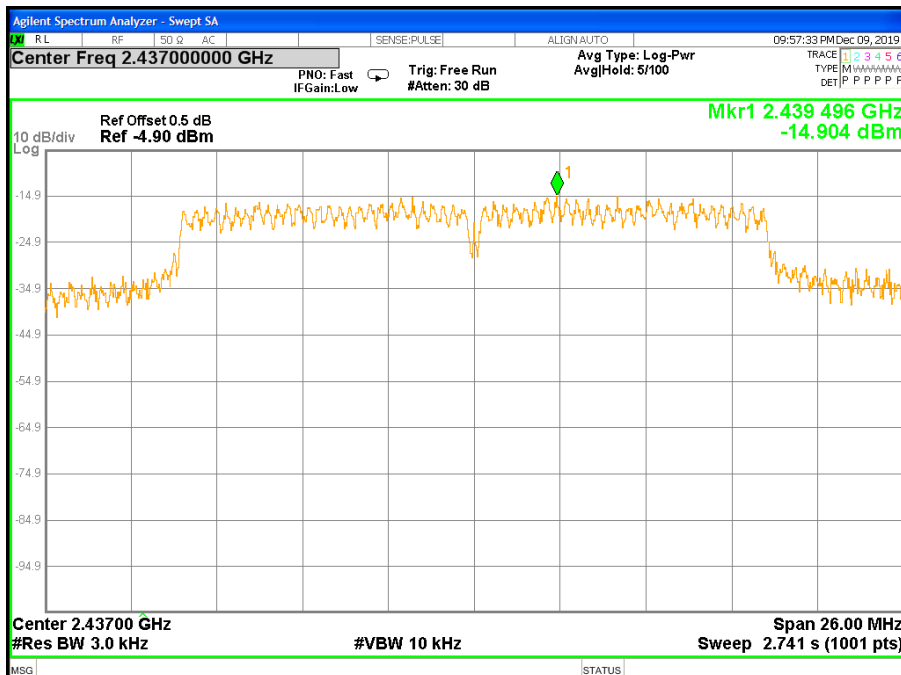
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-17.616	≤8	PASS
2437 MHz	-14.904	≤8	PASS
2462 MHz	-16.365	≤8	PASS

TX CH01

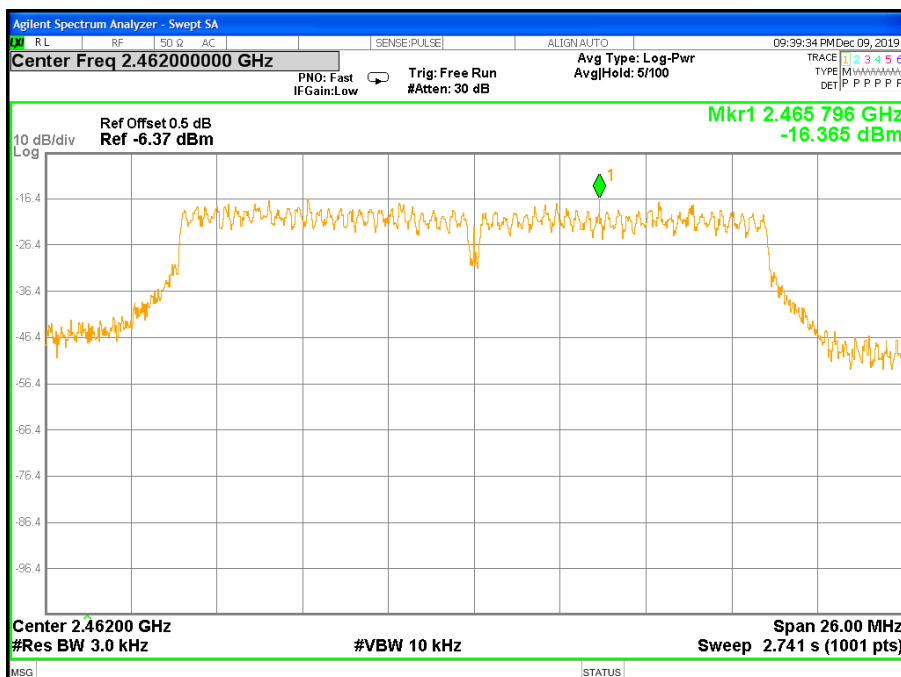




TX CH06



TX CH11





6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 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.



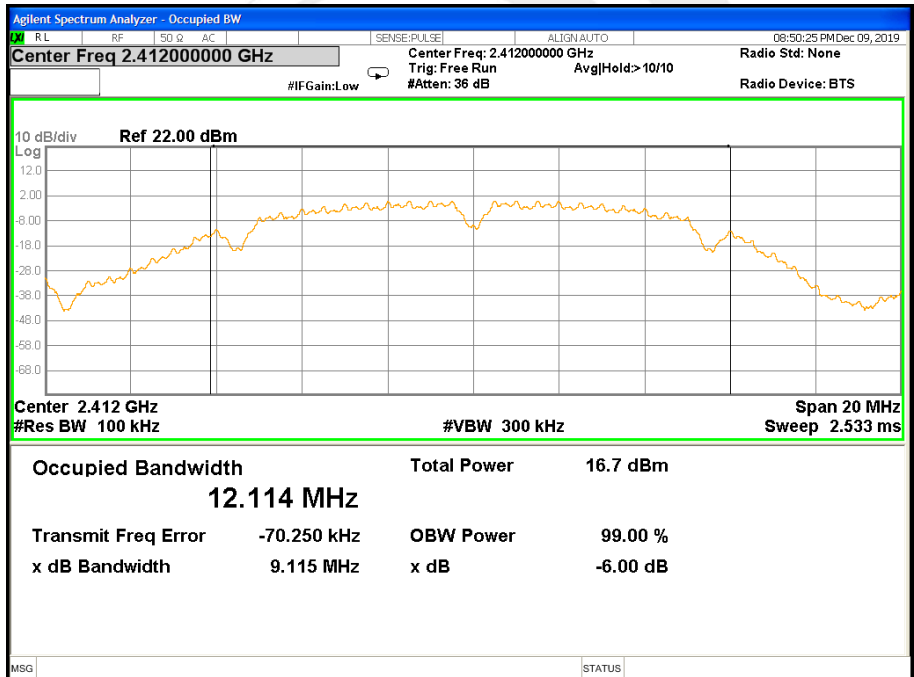
6.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX b Mode /CH01, CH06, CH11

Remark: PEAK DETECTOR IS USED

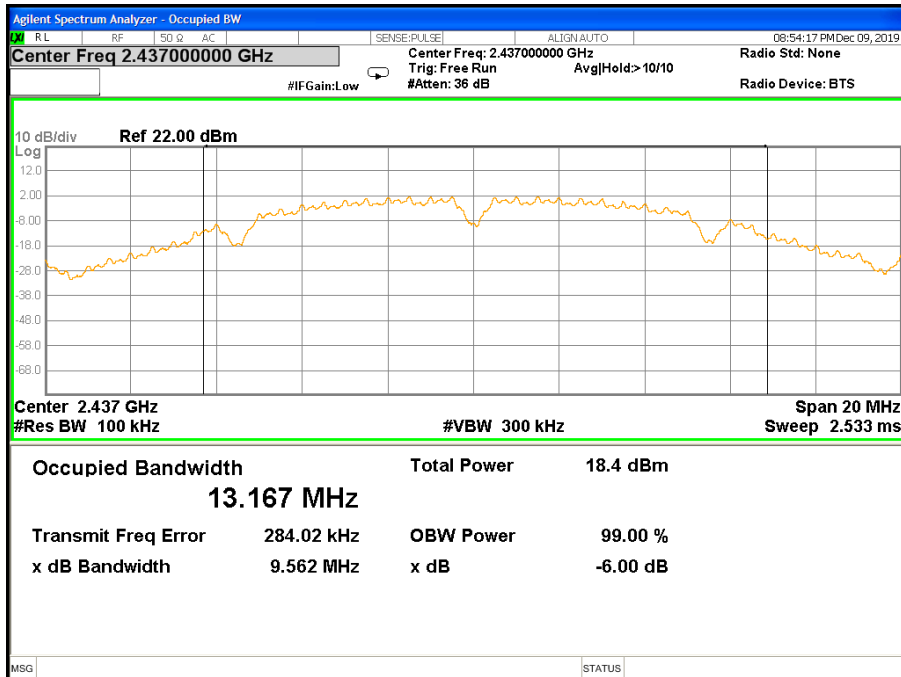
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	9.115	≥500KHz	PASS
2437 MHz	9.562	≥500KHz	PASS
2462 MHz	9.301	≥500KHz	PASS

TX CH 01

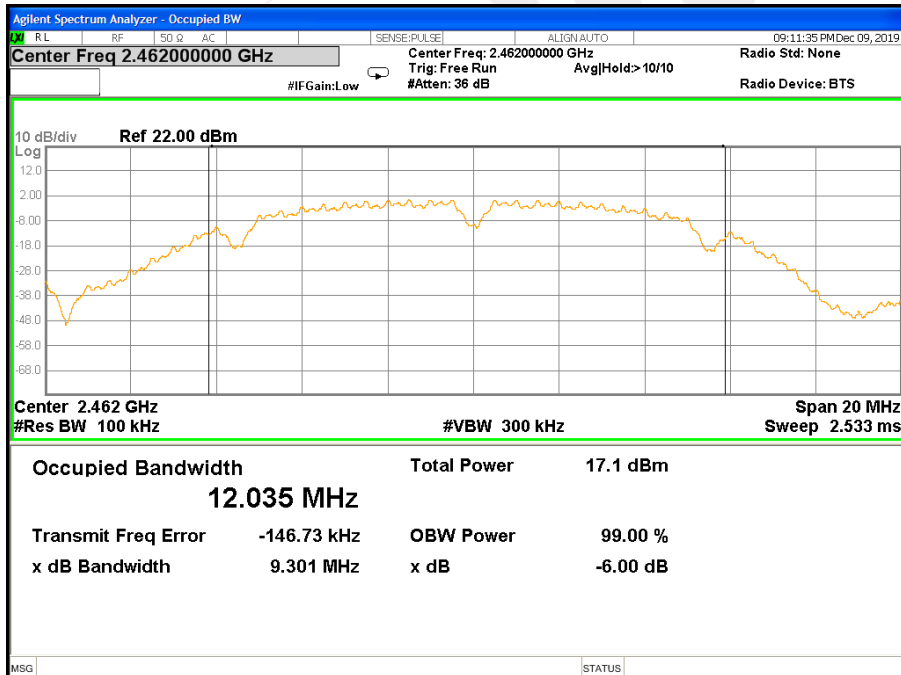




TX CH 06



TX CH 11

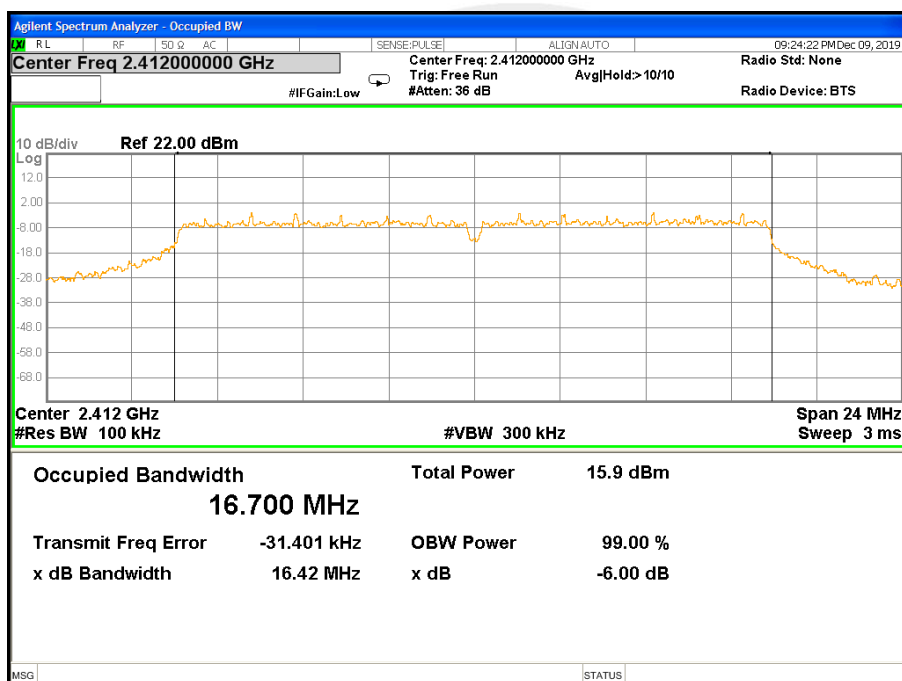




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX g Mode /CH01, CH06, CH11

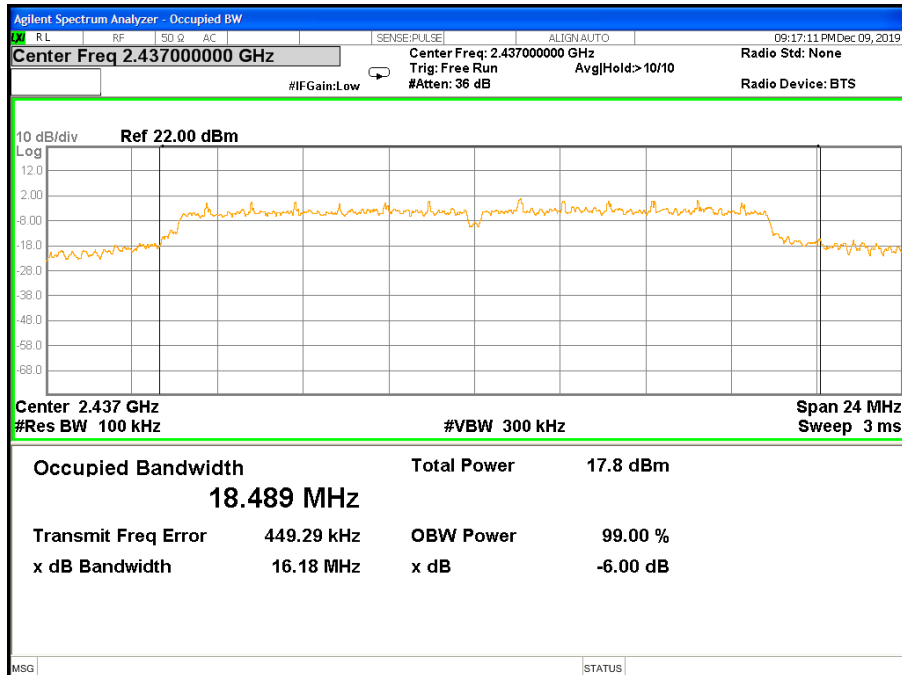
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	16.42	≥500KHz	PASS
2437 MHz	16.18	≥500KHz	PASS
2462 MHz	16.38	≥500KHz	PASS

TX CH 01

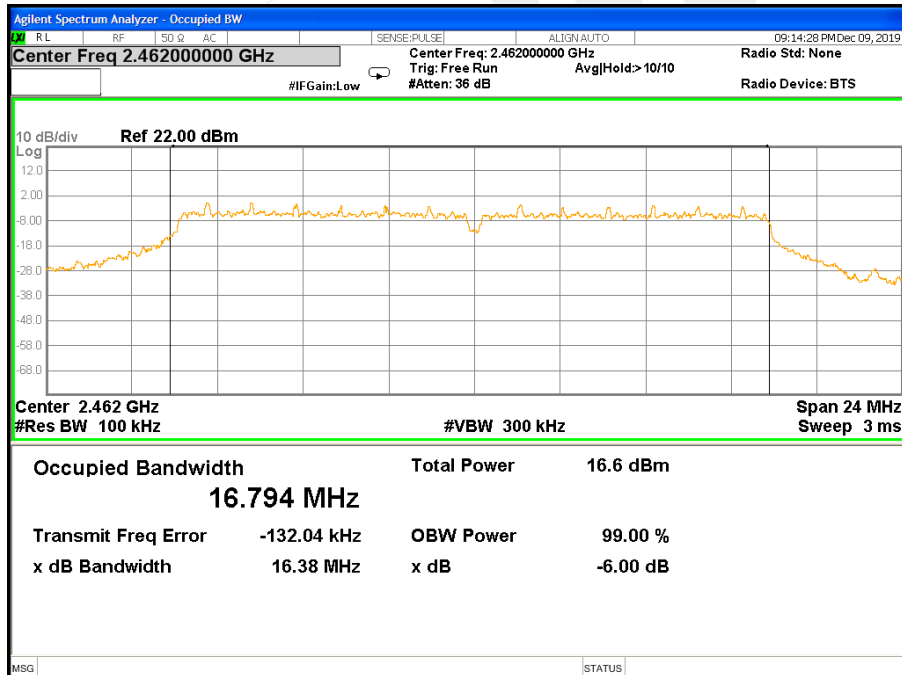




TX CH 06



TX CH 11

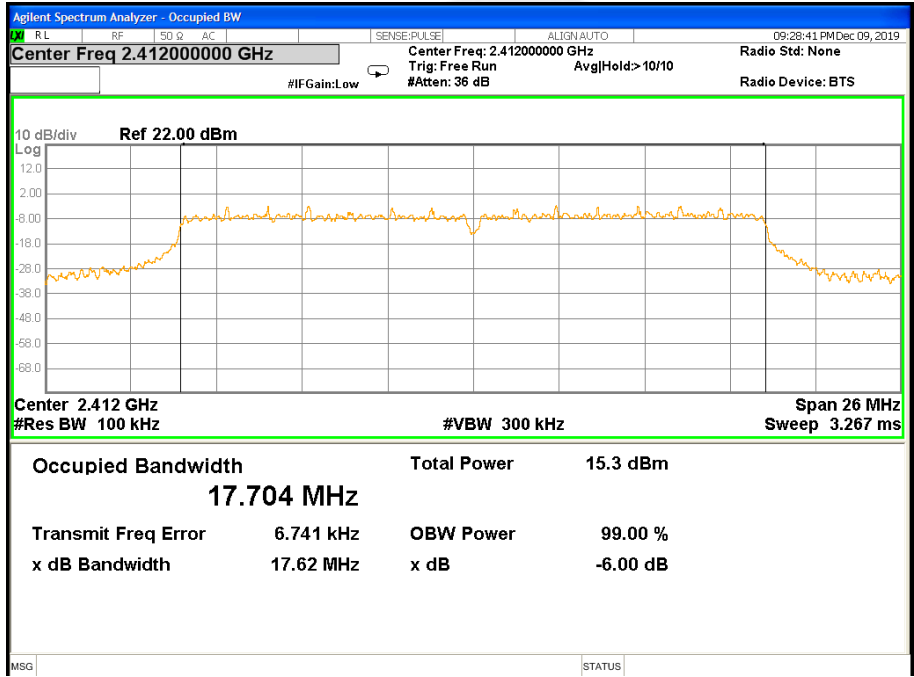




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

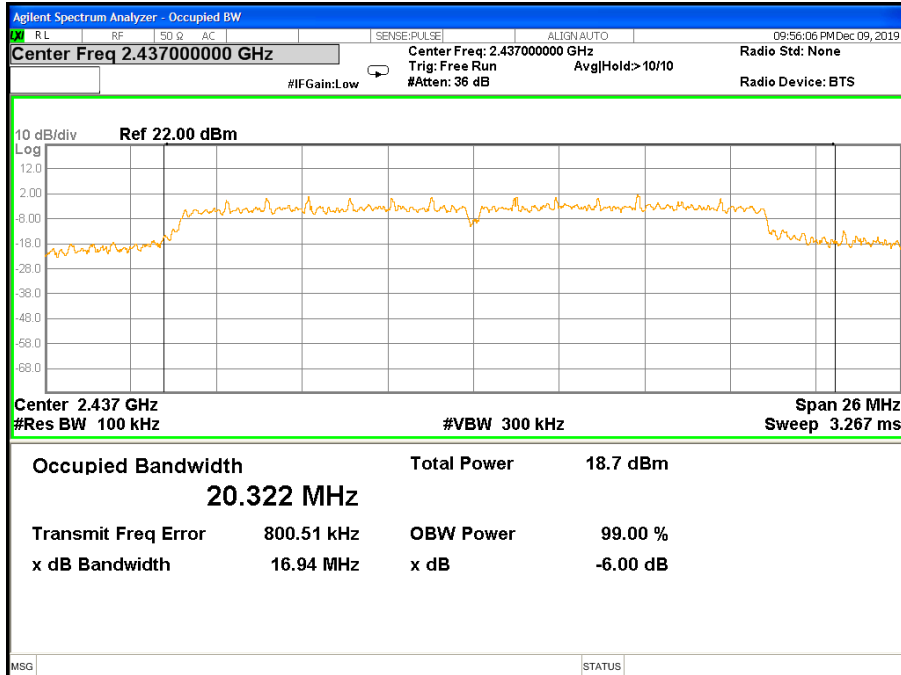
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	17.62	≥500KHz	PASS
2437 MHz	16.94	≥500KHz	PASS
2462 MHz	17.57	≥500KHz	PASS

TX CH 01

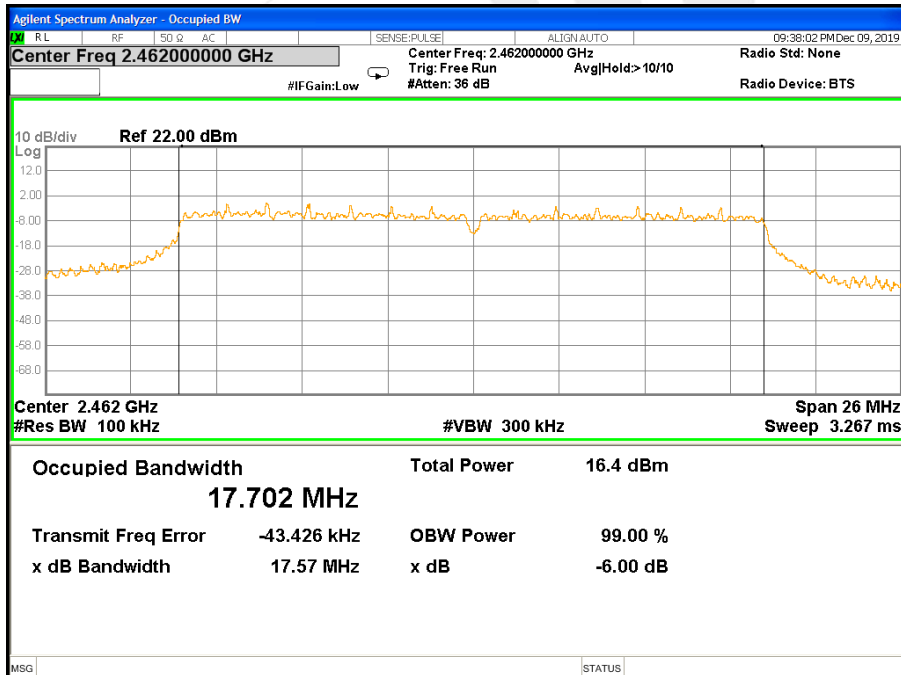




TX CH 06



TX CH 11





7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

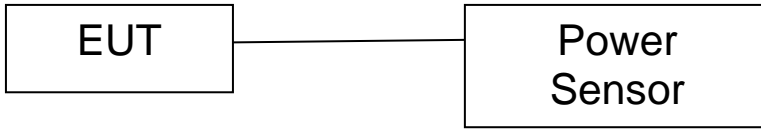
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





7.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V from battery		

Mode	Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
		(MHz)	(dBm)	(dBm)	dBm
TX 802.11b	CH01	2412	13.56	10.71	30
	CH06	2437	14.89	13.65	30
	CH11	2462	14.38	11.56	30
TX 802.11g	CH01	2412	17.10	10.69	30
	CH06	2437	16.94	12.14	30
	CH11	2462	17.51	11.08	30
TX 802.11n20	CH01	2412	16.91	10.01	30
	CH06	2437	16.77	11.79	30
	CH11	2462	17.68	10.65	30



8. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

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





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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

