



RADIO TEST REPORT

Report No: STS1607050F03

Issued for

XTR S.A.C.

Av. Camino Real 1225 Of. 201-A San Isidro, Lima - Perú

Product Name:	Smartphone
Brand Name:	EKS
Model Name:	X4U
Series Model:	N/A
FCC ID:	2AGAK-X4U
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name : XTR S.A.C.
 Address..... : Av. Camino Real 1225 Of. 201-A San Isidro, Lima - Perú
Manufacture's Name..... : Encorp Limited
 Address..... : Room 219, East Building, Jianda Mansion, No.1 Kewei Road,
 Tech Park, Nanshan District, Shenzhen, China

Product description

Product name : Smartphone
 Model and/or type reference : X4U
 Series Model..... : N/A

Standards : FCC Part15.247

Test procedure : ANSI C63.10-2013

This device described above has been tested by STS, 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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Date of Test

Date (s) of performance of tests 06 July. 2016~26 July. 2016

Date of Issue 27 July. 2016

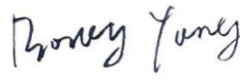
Test Result..... **Pass**

Testing Engineer : 

 (Tony Liu)

Technical Manager : 

 (Vita Li)

Authorized Signatory : 

 (Bovey Yang)

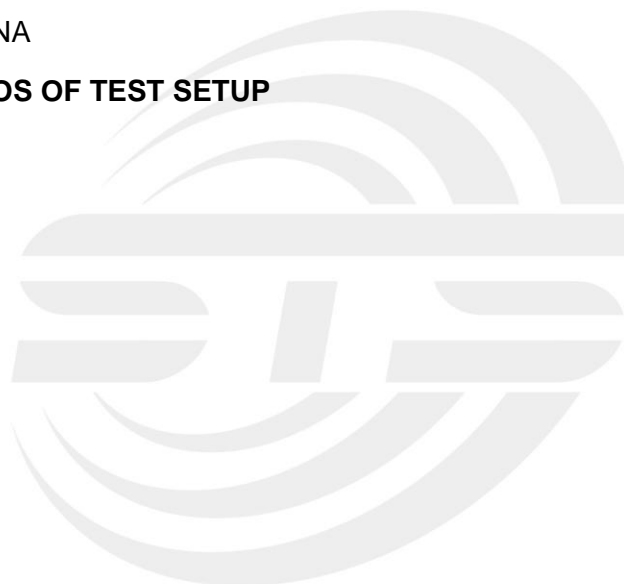




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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	27 July. 2016	STS1607050F03	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 DTS Meas Guidance v03r04

FCC Part15.247 , 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	Radiated 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. : 1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong,China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

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	Conducted Emission (9KHz-150KHz)	$\pm 2.88\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 2.67\text{dB}$
3	RF power,conducted	$\pm 0.70\text{dB}$
4	Spurious emissions,conducted	$\pm 1.19\text{dB}$
5	All emissions,radiated(<30M) (9KHz-30MHz)	$\pm 2.45\text{dB}$
6	All emissions,radiated(<1G) 30MHz-200MHz	$\pm 2.83\text{dB}$
7	All emissions,radiated(<1G) 200MHz-1000MHz	$\pm 2.94\text{dB}$
8	All emissions,radiated(>1G)	$\pm 3.03\text{dB}$
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone														
Trade Name	EKS														
Model Name	X4U														
Series Model	N/A														
Model Difference	N/A														
Product Description	<p>The EUT is a Smartphone</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>CCK/BPSK/QPSK/16QAM</td></tr><tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz):65/58.5/52/39/26/19.5/13/6.5 Mbps</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>Antenna Gain (dBi)</td><td>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:	CCK/BPSK/QPSK/16QAM	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz):65/58.5/52/39/26/19.5/13/6.5 Mbps	Number Of Channel	802.11b/g/n20: 11CH	Antenna Designation:	Please see Note 3.	Antenna Gain (dBi)	0 dBi	Duty Cycle	>98%
Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz														
Modulation Type:	CCK/BPSK/QPSK/16QAM														
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Number Of Channel	802.11b/g/n20: 11CH														
Antenna Designation:	Please see Note 3.														
Antenna Gain (dBi)	0 dBi														
Duty Cycle	>98%														
Channel List	Please refer to the Note 2.														
Adapter	Input: AC 100-240V, 300mA, 50/60 Hz Output: DC 5V, 500mA														
Battery	Rated Voltage: 3.7V Charge Limit: 5V Capacity :1350mAh														
Hardware version number	N/A														
Software version number	N/A														
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
A	EKS	X4U	PIFA Antenna	N/A	0	WIFI Antenna



2.2 DESCRIPTION OF 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:

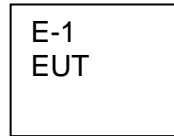
- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

AC Conducted Emission

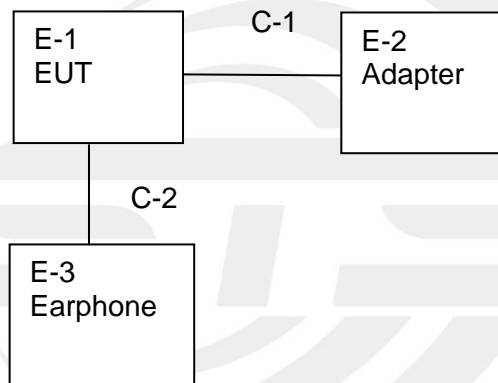
Test Case	
AC Conducted Emission	Mode10: Keeping TX + WLAN Link

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Smartphone	EKS	X4U	N/A	EUT
E-2	Adapter	EKS	X4U	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging)	NO	100cm	N/A
C-2	Earphone line	NO	110cm	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 LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Test Receiver	R&S	ESCI	101427	2015.10.25	2016.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2016.03.06	2017.03.05
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2017.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.06	2017.06.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07
Preamplifier	Agilent	8449B	60538	2015.11.05	2016.11.05
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	N/A	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2015.11.20	2016.11.19
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24
Conduction Cable	EM	C01	N/A	N/A	N/A

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Signal Analyzer	Agilent	N9020A	MY49100060	2015.11.18	2016.11.17



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 Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

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

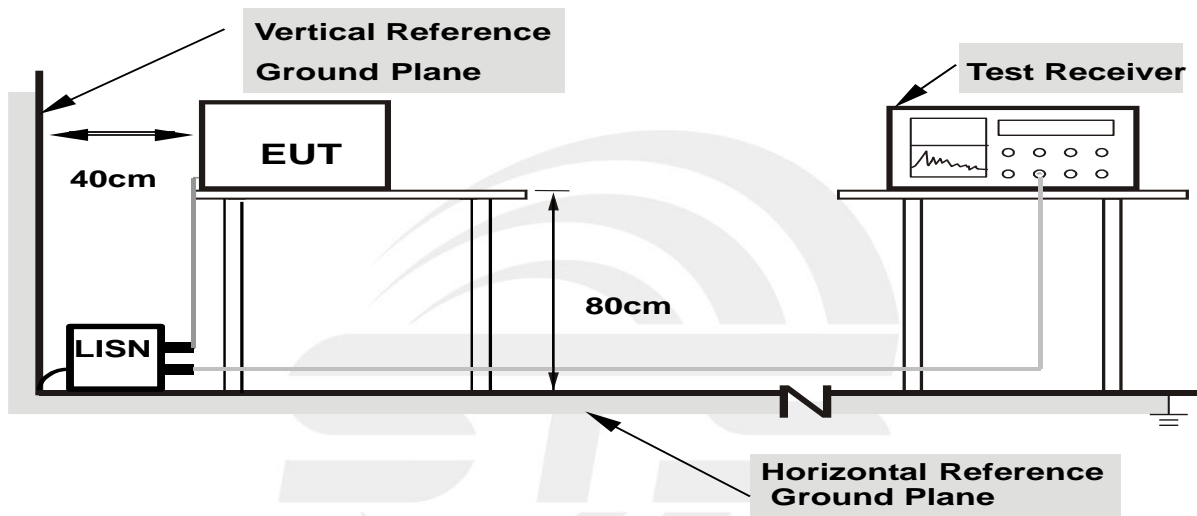
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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 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

3.1.4 EUT OPERATING CONDITIONS

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



3.1.5 TEST RESULT

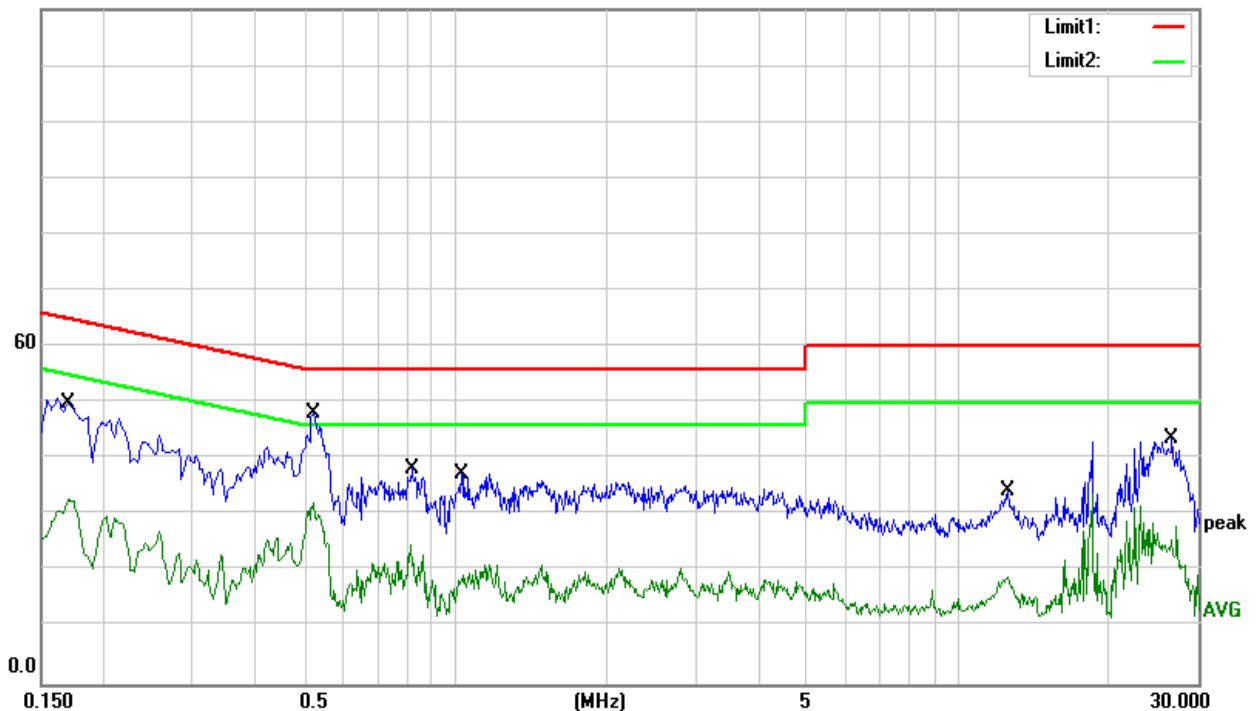
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Mode :	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1700	40.66	9.23	49.89	64.96	-15.07	QP
0.1700	23.46	9.23	32.69	54.96	-22.27	AVG
0.5220	38.96	9.15	48.11	56.00	-7.89	QP
0.5220	22.97	9.15	32.12	46.00	-13.88	AVG
0.8180	29.15	9.21	38.36	56.00	-17.64	QP
0.8180	11.47	9.21	20.68	46.00	-25.32	AVG
1.0300	28.26	9.15	37.41	56.00	-18.59	QP
1.0300	10.25	9.15	19.40	46.00	-26.60	AVG
12.5420	24.87	9.47	34.34	60.00	-25.66	QP
12.5420	9.69	9.47	19.16	50.00	-30.84	AVG
26.6100	33.72	9.80	43.52	60.00	-16.48	QP
26.6100	13.31	9.80	23.11	50.00	-26.89	AVG

Remark:

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

120.0 dBuV





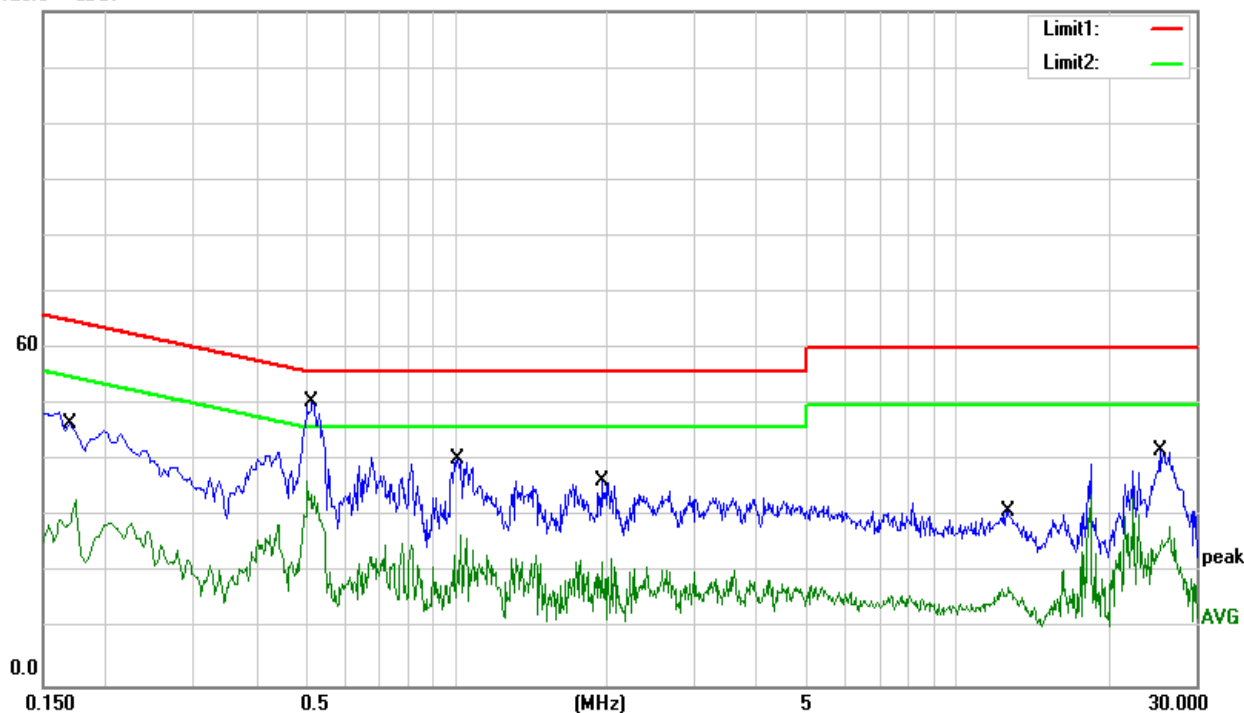
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Mode :	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1700	37.54	9.23	46.77	64.96	-18.19	QP
0.1700	20.96	9.23	30.19	54.96	-24.77	AVG
0.5180	41.49	9.15	50.64	56.00	-5.36	QP
0.5180	22.59	9.15	31.74	46.00	-14.26	AVG
1.0060	30.98	9.25	40.23	56.00	-15.77	QP
1.0060	8.84	9.25	18.09	46.00	-27.91	AVG
1.9580	27.14	9.25	36.39	56.00	-19.61	QP
1.9580	6.44	9.25	15.69	46.00	-30.31	AVG
12.6460	21.61	9.42	31.03	60.00	-28.97	QP
12.6460	7.09	9.42	16.51	50.00	-33.49	AVG
25.3780	32.03	9.92	41.95	60.00	-18.05	QP
25.3780	16.04	9.92	25.96	50.00	-24.04	AVG

Remark:

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

120.0 dBuV





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 Part 15. 205(a)&209(a) limit in the table 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)	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).

For Radiated Emission

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz Upper Band Edge: 2450 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz / 3 MHz



Receiver Parameter	Setting
Attenuation	Auto
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

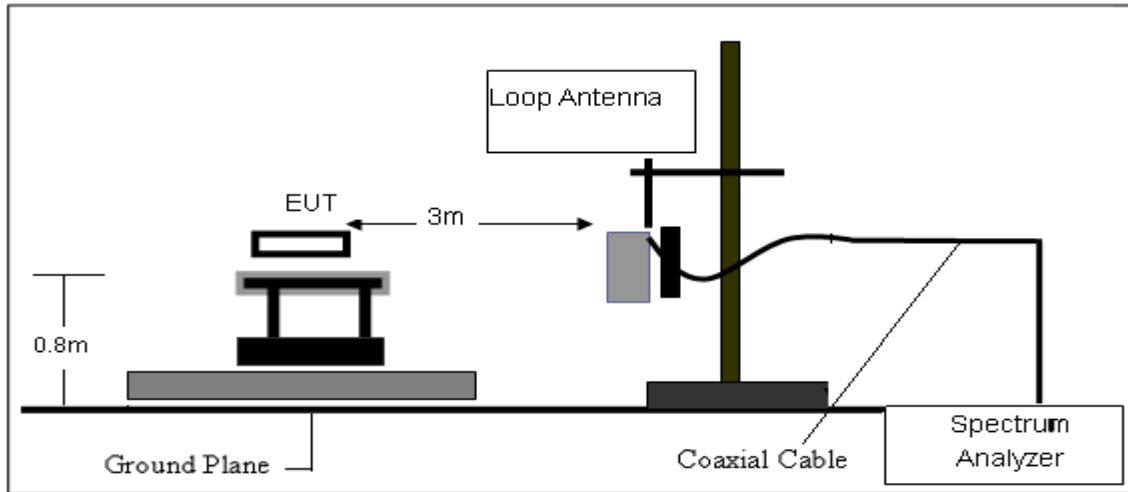
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position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

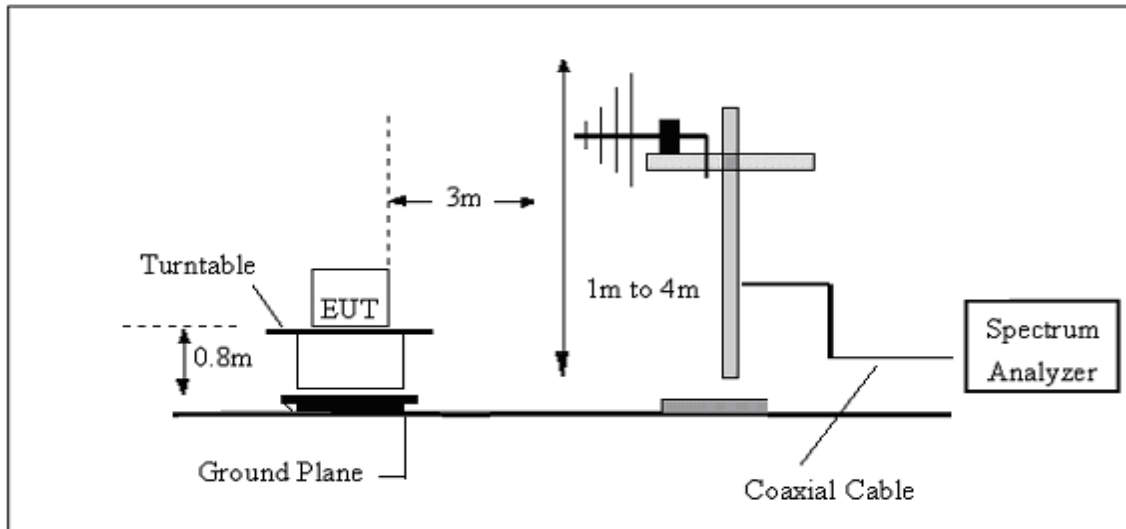
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

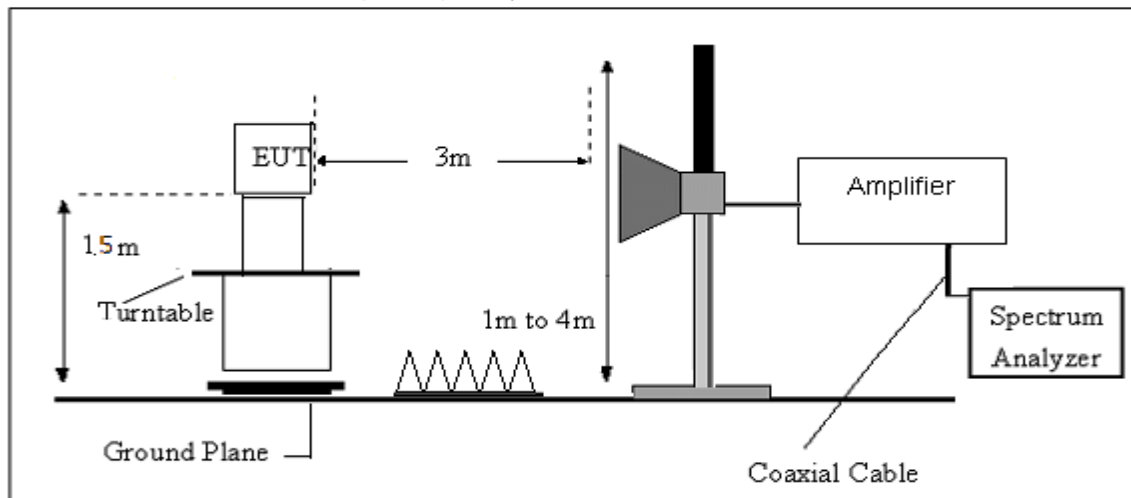
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 TEST RESULT

9KHz-30MHz

Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Mode :	TX Mode
Test Voltage:	DC 3.7V from battery		

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)

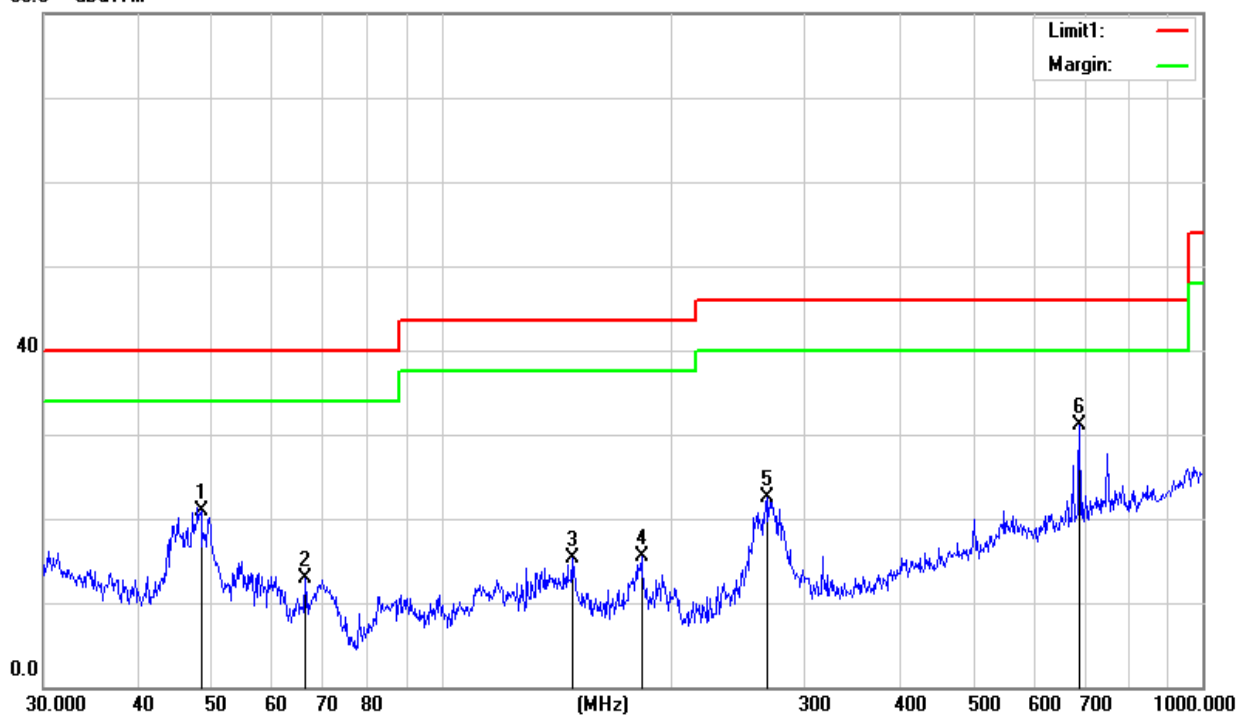
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery	Test Mode :	Mode1/2/3/4/5/6/7/8/9 (Mode 2-1M worst mode)

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
48.3318	41.59	-20.62	20.97	40.00	-19.03	QP
66.2662	37.06	-24.19	12.87	40.00	-27.13	QP
148.4410	33.19	-17.89	15.30	43.50	-28.20	QP
183.2005	35.23	-19.70	15.53	43.50	-27.97	QP
268.4853	37.97	-15.41	22.56	46.00	-23.44	QP
689.5644	36.62	-5.57	31.05	46.00	-14.95	QP

Remark:

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

80.0 dBuV/m





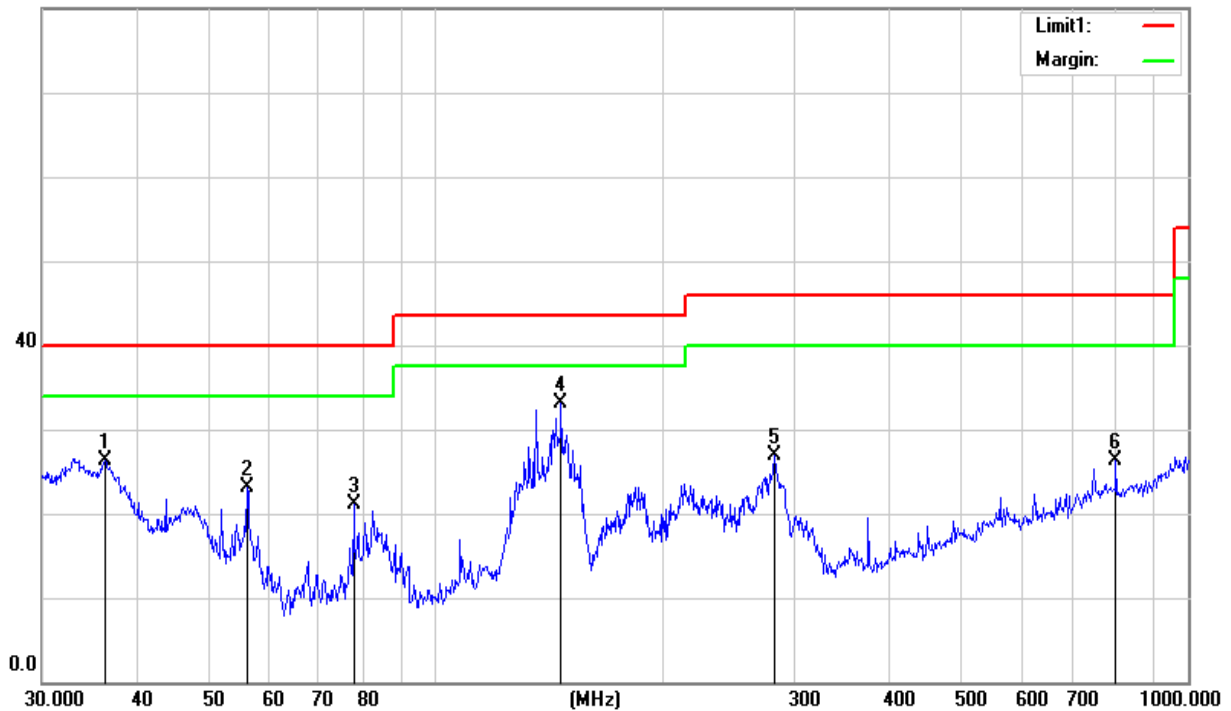
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Phase:	Vertical
Test Voltage:	DC 3.7V from battery	Test Mode :	Mode1/2/3/4/5/6/7/8/9 (Mode 2-1M worst mode)

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
36.3814	40.76	-14.47	26.29	40.00	-13.71	QP
56.1974	46.38	-23.25	23.13	40.00	-16.87	QP
77.8654	44.13	-23.00	21.13	40.00	-18.87	QP
146.8877	50.84	-17.82	33.02	43.50	-10.48	QP
281.9946	42.71	-15.72	26.99	46.00	-19.01	QP
801.7863	29.79	-3.49	26.30	46.00	-19.70	QP

Remark:.

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

80.0 dBuV/m





(1000MHz-25GHz)

802.11b Low Channel

Meter		Antenna		Orrected	Emission					
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	Comment
Low Channel (2412 MHz)										
3265.10	49.99	44.70	6.70	28.20	-9.80	40.19	74.00	-33.81	PK	Vertical
3265.10	39.92	44.70	6.70	28.20	-9.80	30.12	54.00	-23.88	AV	Vertical
3265.06	49.90	44.70	6.70	28.20	-9.80	40.10	74.00	-33.90	PK	Horizontal
3265.06	39.93	44.70	6.70	28.20	-9.80	30.13	54.00	-23.87	AV	Horizontal
4824.78	60.26	44.20	9.04	31.60	-3.56	56.70	74.00	-17.30	PK	Vertical
4824.78	50.26	44.20	9.04	31.60	-3.56	46.70	54.00	-7.30	AV	Vertical
4824.81	60.26	44.20	9.04	31.60	-3.56	56.70	74.00	-17.30	PK	Horizontal
4824.81	50.22	44.20	9.04	31.60	-3.56	46.66	54.00	-7.34	AV	Horizontal
5360.09	47.15	44.20	9.86	32.00	-2.34	44.81	74.00	-29.19	PK	Vertical
5360.09	39.12	44.20	9.86	32.00	-2.34	36.78	54.00	-17.22	AV	Vertical
5360.07	47.20	44.20	9.86	32.00	-2.34	44.86	74.00	-29.14	PK	Horizontal
5360.07	39.13	44.20	9.86	32.00	-2.34	36.79	54.00	-17.21	AV	Horizontal
7236.18	52.64	43.50	11.40	35.50	3.40	56.04	74.00	-17.96	PK	Vertical
7236.18	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Vertical
7236.16	52.65	43.50	11.40	35.50	3.40	56.05	74.00	-17.95	PK	Horizontal
7236.16	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Horizontal
11036.22	41.89	43.60	14.30	39.50	10.20	52.09	74.00	-21.91	PK	Vertical
11036.22	31.88	43.60	14.30	39.50	10.20	42.08	54.00	-11.92	AV	Vertical
11036.47	41.87	43.60	14.30	39.50	10.20	52.07	74.00	-21.93	PK	Horizontal
11036.47	31.88	43.60	14.30	39.50	10.20	42.08	54.00	-11.92	AV	Horizontal
13299.62	41.68	42.60	15.90	38.90	12.20	53.88	74.00	-20.12	PK	Vertical
13299.62	31.75	42.60	15.90	38.90	12.20	43.95	54.00	-10.05	AV	Vertical
13299.74	41.74	42.60	15.90	38.90	12.20	53.94	74.00	-20.06	PK	Horizontal
13299.74	30.73	42.60	15.90	38.90	12.20	42.93	54.00	-11.07	AV	Horizontal
16000.15	41.80	42.70	18.00	37.10	12.40	54.20	74.00	-19.80	PK	Vertical
16000.15	31.76	42.70	18.00	37.10	12.40	44.16	54.00	-9.84	AV	Vertical
16000.04	41.76	42.70	18.00	37.10	12.40	54.16	74.00	-19.84	PK	Horizontal
16000.04	31.03	42.70	18.00	37.10	12.40	43.43	54.00	-10.57	AV	Horizontal
17998.14	31.87	42.70	19.40	46.50	23.20	55.07	74.00	-18.93	PK	Vertical
17998.14	21.89	42.70	19.40	46.50	23.20	45.09	54.00	-8.91	AV	Vertical
17998.01	31.93	42.70	19.40	46.50	23.20	55.13	74.00	-18.87	PK	Horizontal
17998.01	21.95	42.70	19.40	46.50	23.20	45.15	54.00	-8.85	AV	Horizontal



802.11b Mid Channel

Frequency (MHz)	Meter			Antenna		Orrected		Emission			Detector Type	Comment
	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)				
Low Channel (2437 MHz)												
3265.00	39.84	44.70	6.70	28.20	-9.80	30.04	54.00	-23.96	PK	Vertical		
3264.95	49.82	44.70	6.70	28.20	-9.80	40.02	74.00	-33.98	AV	Vertical		
3264.95	39.88	44.70	6.70	28.20	-9.80	30.08	54.00	-23.92	PK	Horizontal		
4874.76	60.15	44.20	9.04	31.60	-3.56	56.59	74.00	-17.41	AV	Horizontal		
4874.76	50.17	44.20	9.04	31.60	-3.56	46.61	54.00	-7.39	PK	Vertical		
4874.70	60.22	44.20	9.04	31.60	-3.56	56.66	74.00	-17.34	AV	Vertical		
4874.70	50.12	44.20	9.04	31.60	-3.56	46.56	54.00	-7.44	PK	Horizontal		
5359.97	47.07	44.20	9.86	32.00	-2.34	44.73	74.00	-29.27	AV	Horizontal		
5359.97	39.10	44.20	9.86	32.00	-2.34	36.76	54.00	-17.24	PK	Vertical		
5360.00	47.11	44.20	9.86	32.00	-2.34	44.77	74.00	-29.23	AV	Vertical		
5360.00	39.04	44.20	9.86	32.00	-2.34	36.70	54.00	-17.30	PK	Horizontal		
7336.05	52.56	43.50	11.40	35.50	3.40	55.96	74.00	-18.04	AV	Horizontal		
7336.05	44.54	43.50	11.40	35.50	3.40	47.94	54.00	-6.06	PK	Vertical		
7336.04	52.61	43.50	11.40	35.50	3.40	56.01	74.00	-17.99	AV	Vertical		
7336.04	44.56	43.50	11.40	35.50	3.40	47.96	54.00	-6.04	PK	Horizontal		
11036.11	41.85	43.60	14.30	39.50	10.20	52.05	74.00	-21.95	AV	Horizontal		
11036.11	31.79	43.60	14.30	39.50	10.20	41.99	54.00	-12.01	PK	Vertical		
11036.11	41.82	43.60	14.30	39.50	10.20	52.02	74.00	-21.98	AV	Vertical		
11036.11	31.83	43.60	14.30	39.50	10.20	42.03	54.00	-11.97	PK	Horizontal		
13299.71	41.61	42.60	15.90	38.90	12.20	53.81	74.00	-20.19	AV	Horizontal		
13299.71	31.68	42.60	15.90	38.90	12.20	43.88	54.00	-10.12	PK	Vertical		
13299.62	41.69	42.60	15.90	38.90	12.20	53.89	74.00	-20.11	AV	Vertical		
13299.62	30.64	42.60	15.90	38.90	12.20	42.84	54.00	-11.16	PK	Horizontal		
15999.98	41.70	42.70	18.00	37.10	12.40	54.10	74.00	-19.90	AV	Horizontal		
15999.98	31.70	42.70	18.00	37.10	12.40	44.10	54.00	-9.90	PK	Vertical		
15999.99	41.69	42.70	18.00	37.10	12.40	54.09	74.00	-19.91	AV	Vertical		
15999.99	30.97	42.70	18.00	37.10	12.40	43.37	54.00	-10.63	PK	Horizontal		
17998.13	31.83	42.70	19.40	46.50	23.20	55.03	74.00	-18.97	AV	Horizontal		
17998.13	21.86	42.70	19.40	46.50	23.20	45.06	54.00	-8.94	PK	Vertical		
17998.00	31.87	42.70	19.40	46.50	23.20	55.07	74.00	-18.93	AV	Vertical		
17998.00	21.83	42.70	19.40	46.50	23.20	45.03	54.00	-8.97	PK	Horizontal		
3265.00	39.84	44.70	6.70	28.20	-9.80	30.04	54.00	-23.96	AV	Horizontal		



802.11b High Channel

Frequency (MHz)	Meter		Antenna		Orrected	Emission		Margin (dB)	Detector Type	Comment
	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)			
Low Channel (2462 MHz)										
3265.07	49.79	44.70	6.70	28.20	-9.80	39.99	74.00	-34.01	PK	Vertical
3265.07	39.77	44.70	6.70	28.20	-9.80	29.97	54.00	-24.03	AV	Vertical
3265.04	49.75	44.70	6.70	28.20	-9.80	39.95	74.00	-34.05	PK	Horizontal
3265.04	39.81	44.70	6.70	28.20	-9.80	30.01	54.00	-23.99	AV	Horizontal
4924.82	60.07	44.20	9.04	31.60	-3.56	56.51	74.00	-17.49	PK	Vertical
4924.82	50.14	44.20	9.04	31.60	-3.56	46.58	54.00	-7.42	AV	Vertical
4924.78	60.12	44.20	9.04	31.60	-3.56	56.56	74.00	-17.44	PK	Horizontal
4924.78	50.05	44.20	9.04	31.60	-3.56	46.49	54.00	-7.51	AV	Horizontal
5360.04	46.99	44.20	9.86	32.00	-2.34	44.65	74.00	-29.35	PK	Vertical
5360.04	39.01	44.20	9.86	32.00	-2.34	36.67	54.00	-17.33	AV	Vertical
5360.03	47.04	44.20	9.86	32.00	-2.34	44.70	74.00	-29.30	PK	Horizontal
5360.03	38.99	44.20	9.86	32.00	-2.34	36.65	54.00	-17.35	AV	Horizontal
7386.16	52.49	43.50	11.40	35.50	3.40	55.89	74.00	-18.11	PK	Vertical
7386.16	44.47	43.50	11.40	35.50	3.40	47.87	54.00	-6.13	AV	Vertical
7386.20	52.50	43.50	11.40	35.50	3.40	55.90	74.00	-18.10	PK	Horizontal
7386.20	44.47	43.50	11.40	35.50	3.40	47.87	54.00	-6.13	AV	Horizontal
11036.21	41.79	43.60	14.30	39.50	10.20	51.99	74.00	-22.01	PK	Vertical
11036.21	31.75	43.60	14.30	39.50	10.20	41.95	54.00	-12.05	AV	Vertical
11036.19	41.74	43.60	14.30	39.50	10.20	51.94	74.00	-22.06	PK	Horizontal
11036.19	31.75	43.60	14.30	39.50	10.20	41.95	54.00	-12.05	AV	Horizontal
16000.09	41.58	42.70	18.00	37.10	12.40	53.98	74.00	-20.02	PK	Vertical
16000.09	31.60	42.70	18.00	37.10	12.40	44.00	54.00	-10.00	AV	Vertical
16000.05	41.60	42.70	18.00	37.10	12.40	54.00	74.00	-20.00	PK	Horizontal
16000.05	30.91	42.70	18.00	37.10	12.40	43.31	54.00	-10.69	AV	Horizontal
17998.22	31.75	42.70	19.40	46.50	23.20	54.95	74.00	-19.05	PK	Vertical
17998.22	21.79	42.70	19.40	46.50	23.20	44.99	54.00	-9.01	AV	Vertical
17998.09	31.77	42.70	19.40	46.50	23.20	54.97	74.00	-19.03	PK	Horizontal
17998.09	21.79	42.70	19.40	46.50	23.20	44.99	54.00	-9.01	AV	Horizontal



3.2.6 TEST RESULTS (Band edge)

Frequency (MHz)	Meter		Antenna		Orrected Factor (dB)	Emission		Margin (dB)	Detector Type	Comment
	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Factor (dB/m)		Level (dBμV/m)	Limits (dBμV/m)			
802.11b										
2400.00	69.16	43.80	4.91	25.90	-12.99	56.17	74	-17.83	PK	Vertical
2400.00	54.98	43.80	4.91	25.90	-12.99	41.99	54	-12.01	AV	Vertical
2400.00	70.19	43.80	4.91	25.90	-12.99	57.20	74	-16.80	PK	Horizontal
2400.00	54.13	43.80	4.91	25.90	-12.99	41.14	54	-12.86	AV	Horizontal
2483.50	71.00	43.80	5.12	25.90	-12.78	58.22	74	-15.78	PK	Vertical
2483.50	54.03	43.80	5.12	25.90	-12.78	41.25	54	-12.75	AV	Vertical
2483.50	71.08	43.80	5.12	25.90	-12.78	58.30	74	-15.70	PK	Horizontal
2483.50	54.05	43.80	5.12	25.90	-12.78	41.27	54	-12.73	AV	Horizontal
802.11g										
2400.00	67.95	43.80	4.91	25.90	-12.99	54.96	74	-19.04	PK	Vertical
2400.00	54.08	43.80	4.91	25.90	-12.99	41.09	54	-12.91	AV	Vertical
2400.00	67.11	43.80	4.91	25.90	-12.99	54.12	74	-19.88	PK	Horizontal
2400.00	54.96	43.80	4.91	25.90	-12.99	41.97	54	-12.03	AV	Horizontal
2483.50	67.06	43.80	5.12	25.90	-12.78	54.28	74	-19.72	PK	Vertical
2483.50	54.25	43.80	5.12	25.90	-12.78	41.47	54	-12.53	AV	Vertical
2483.50	67.04	43.80	5.12	25.90	-12.78	54.26	74	-19.74	PK	Horizontal
2483.50	54.15	43.80	5.12	25.90	-12.78	41.37	54	-12.63	AV	Horizontal
802.11n20										
2400.00	67.08	43.80	4.91	25.90	-12.99	54.09	74	-19.91	PK	Vertical
2400.00	54.06	43.80	4.91	25.90	-12.99	41.07	54	-12.93	AV	Vertical
2400.00	67.05	43.80	4.91	25.90	-12.99	54.06	74	-19.94	PK	Horizontal
2400.00	54.09	43.80	4.91	25.90	-12.99	41.10	54	-12.90	AV	Horizontal
2483.50	67.19	43.80	5.12	25.90	-12.78	54.41	74	-19.59	PK	Vertical
2483.50	54.05	43.80	5.12	25.90	-12.78	41.27	54	-12.73	AV	Vertical
2483.50	67.02	43.80	5.12	25.90	-12.78	54.24	74	-19.76	PK	Horizontal
2483.50	54.04	43.80	5.12	25.90	-12.78	41.26	54	-12.74	AV	Horizontal

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

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 APPLIED PROCEDURES / 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

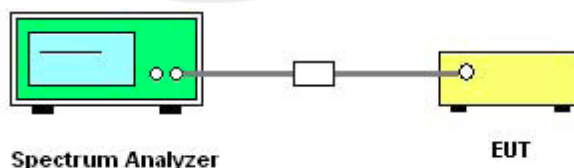
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz Upper Band Edge: 2450 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 coupled 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

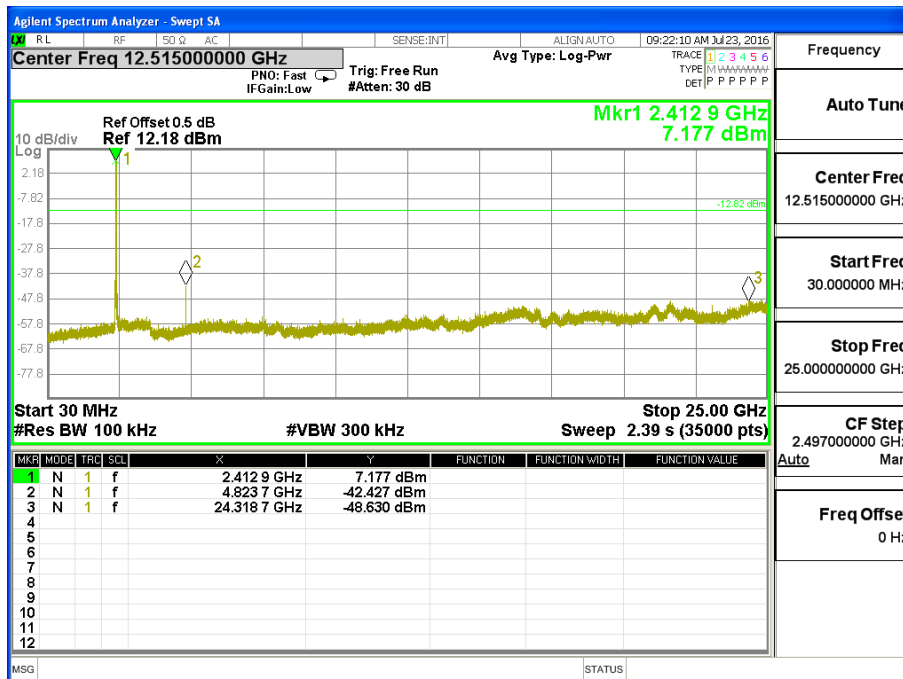
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



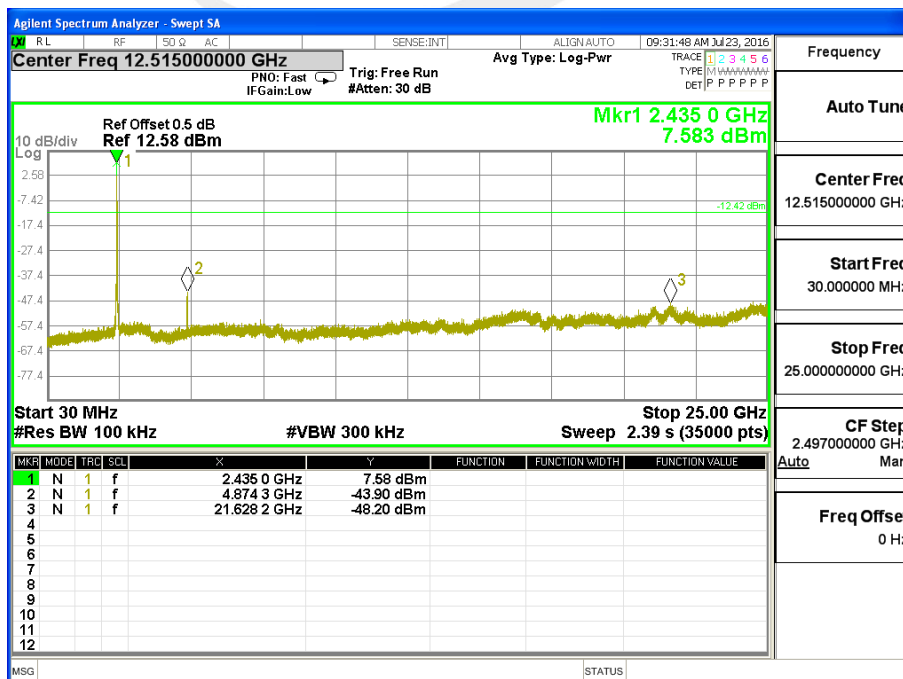
4.6 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

CH 01

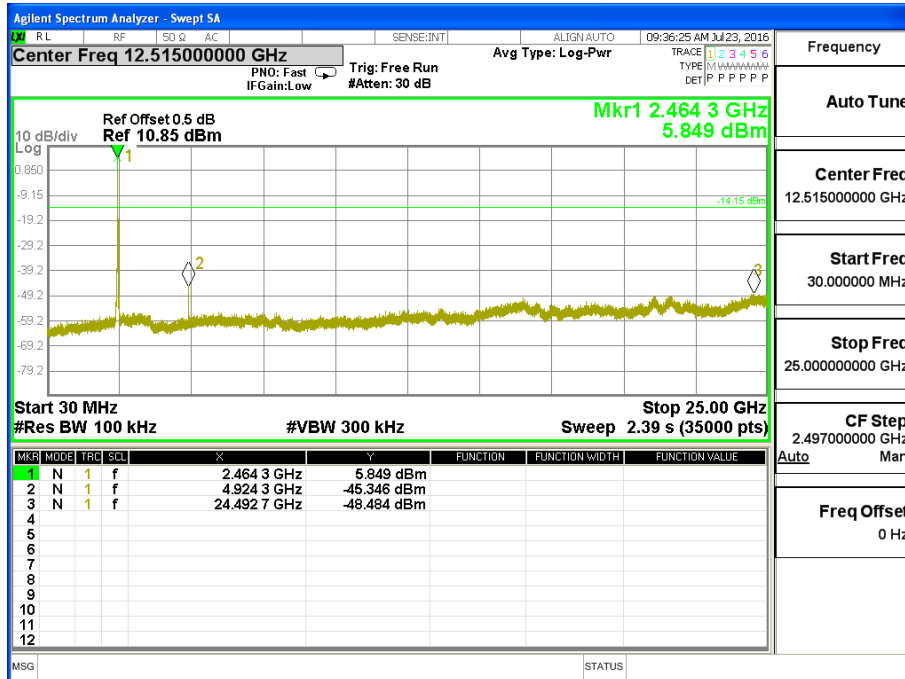


CH 06





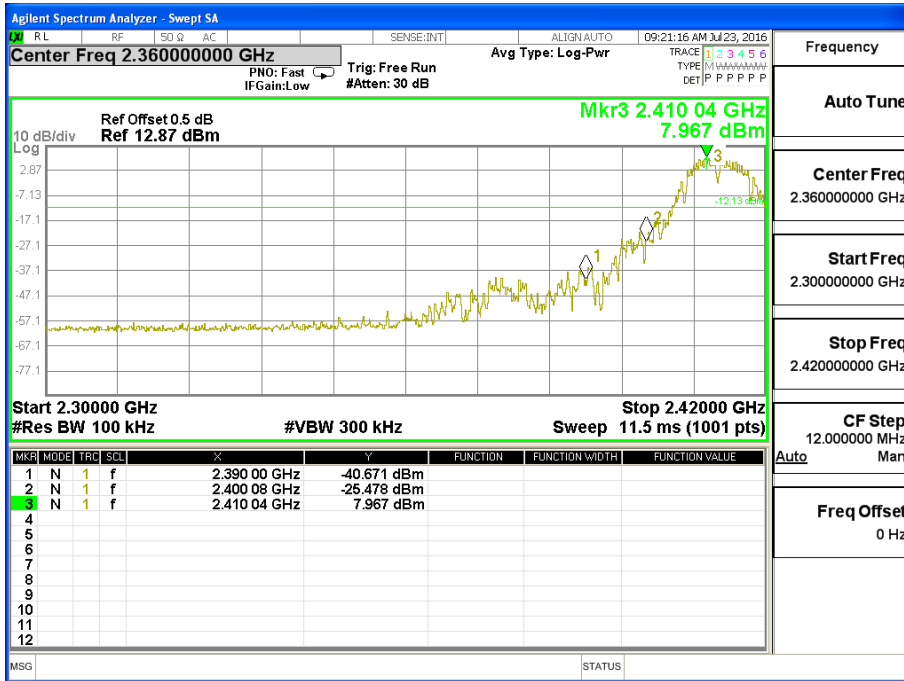
CH 11



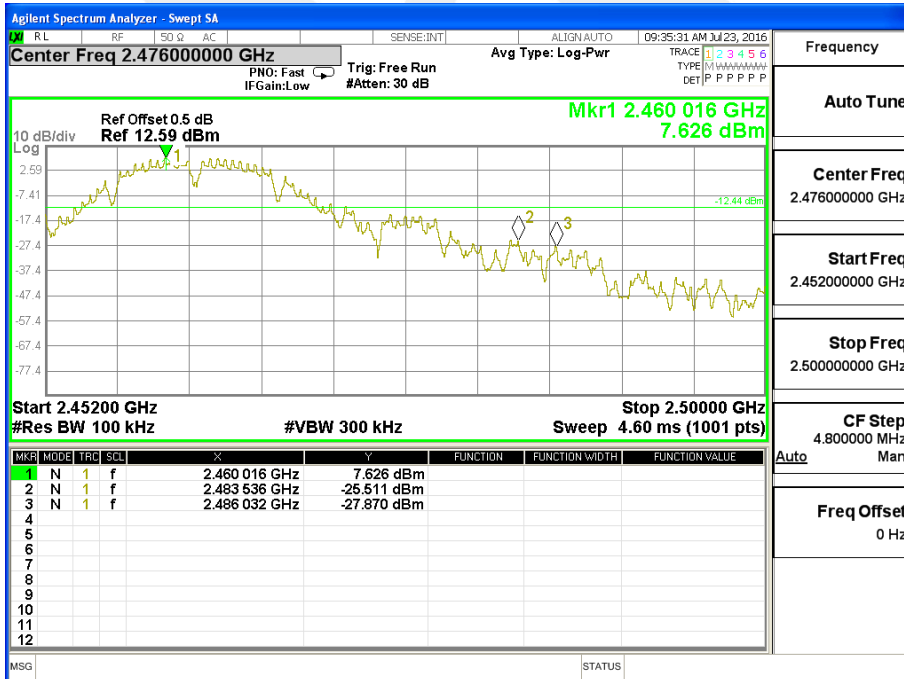


Band edge

CH 01



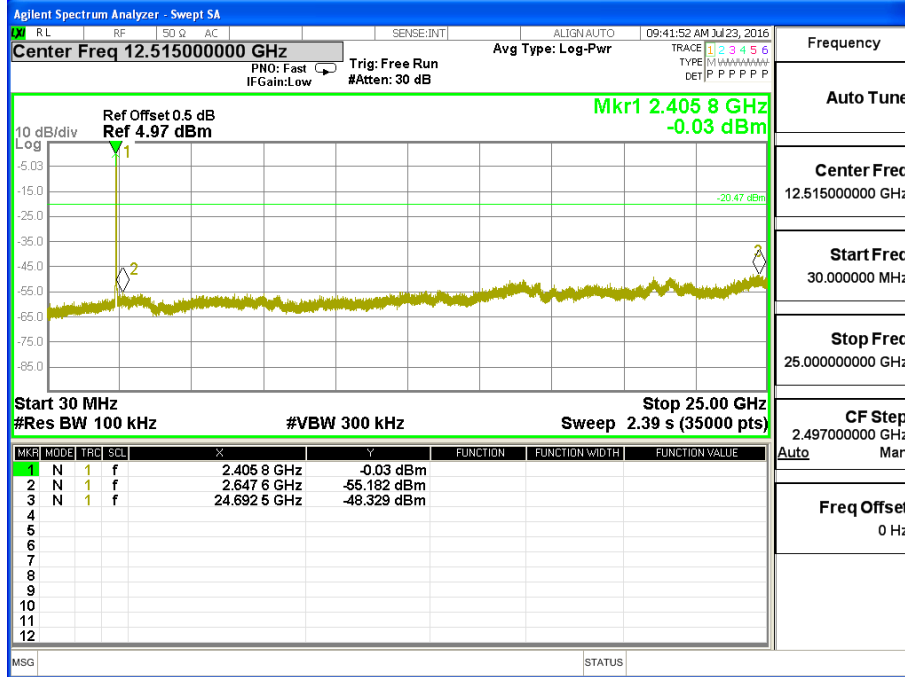
CH 11



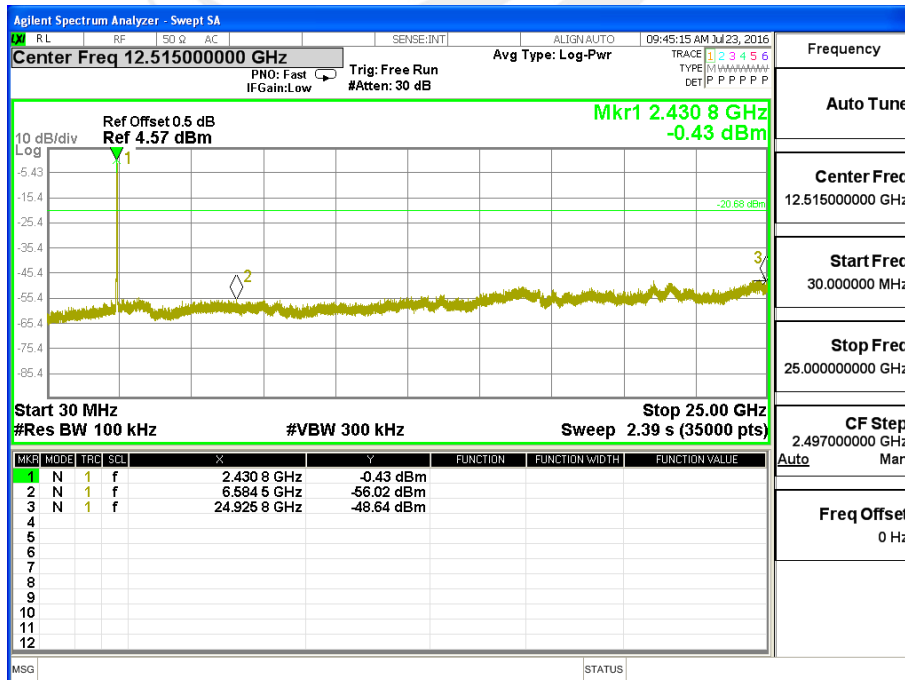


Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

CH 01

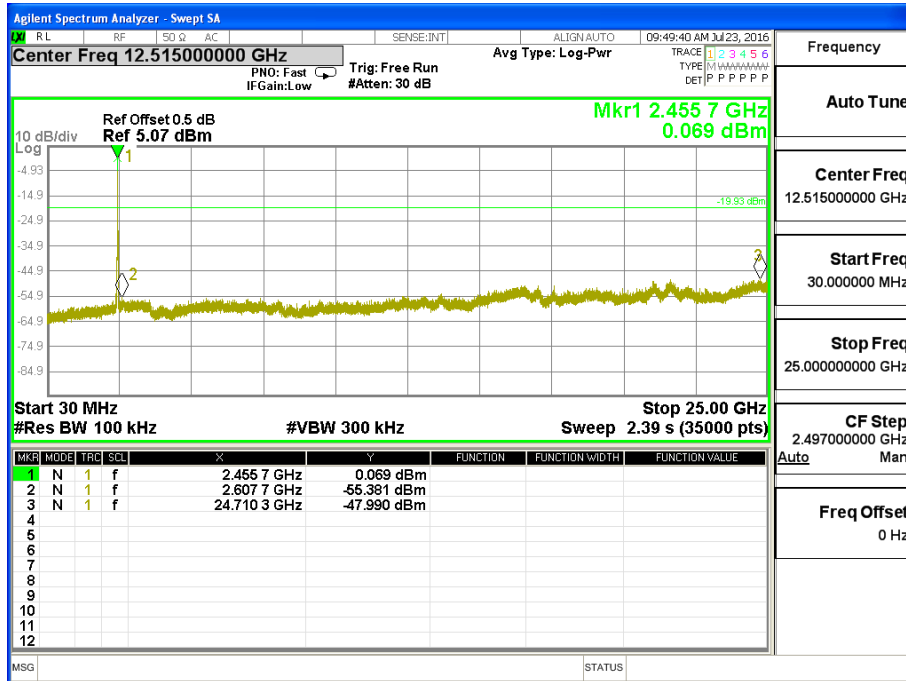


CH06





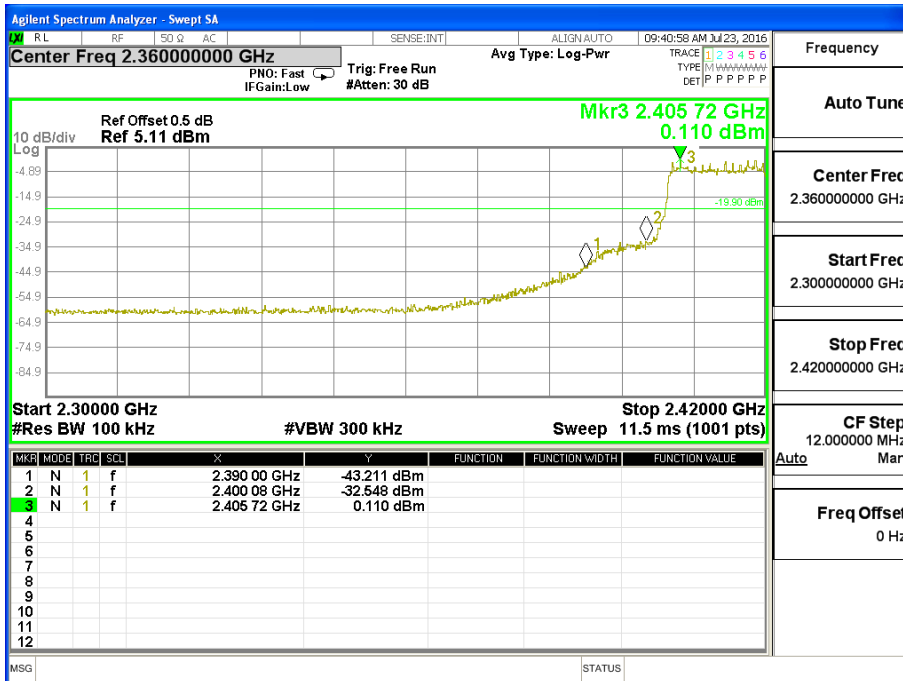
CH 11



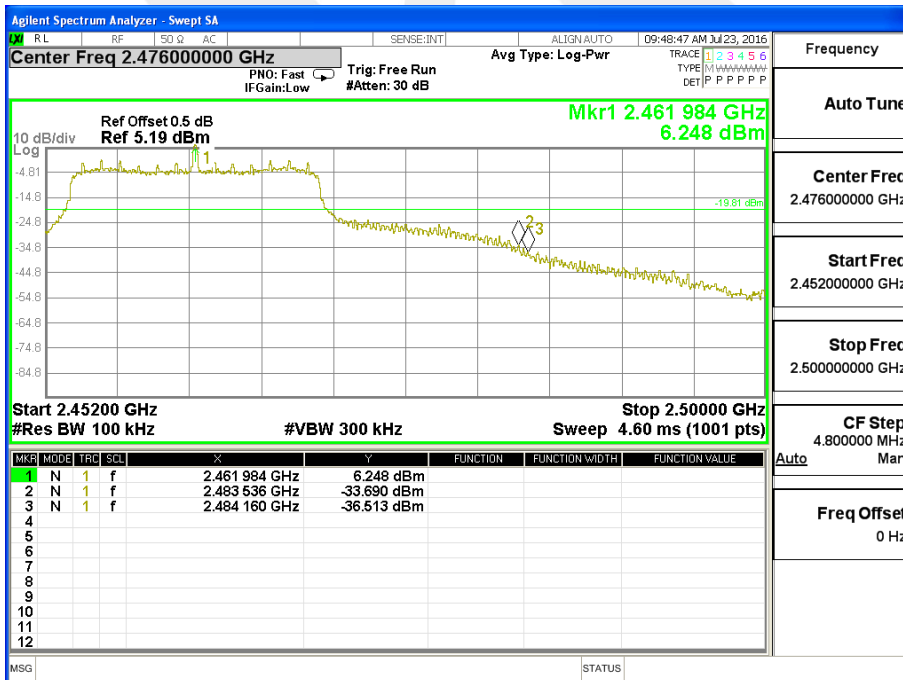


Band edge

CH 01



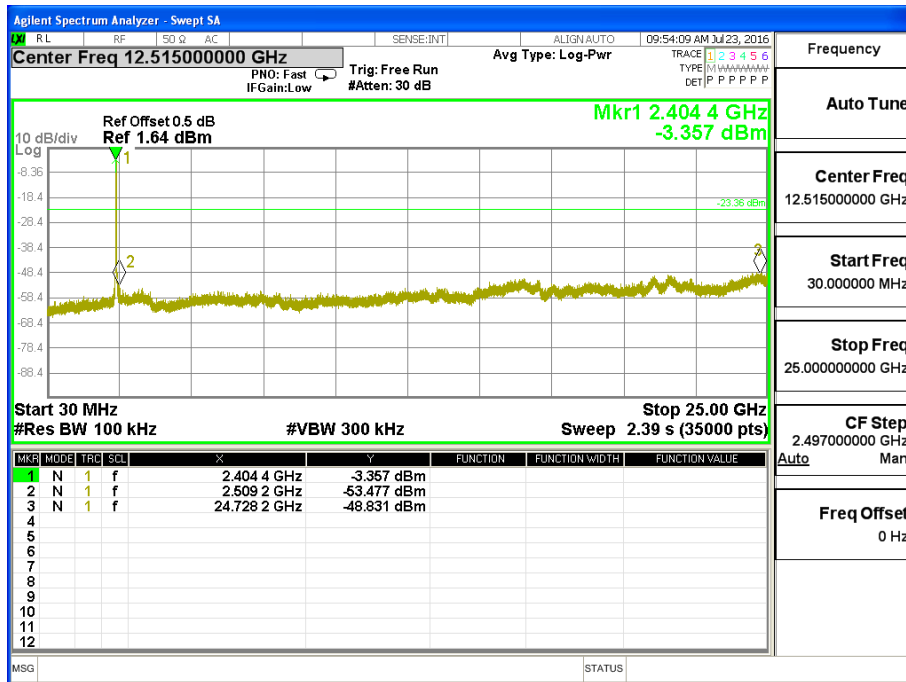
CH11



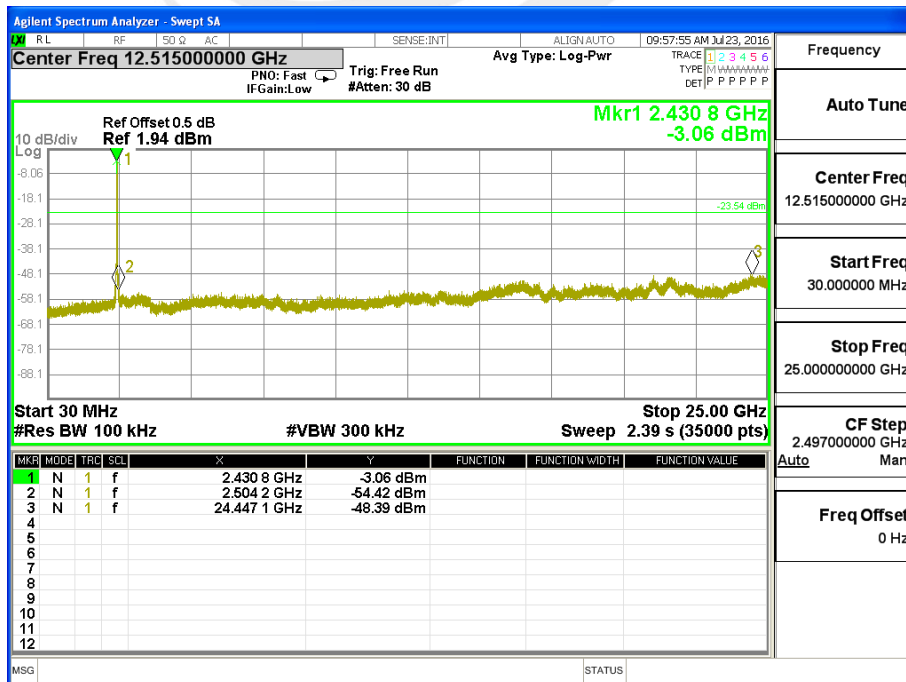


Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

CH 01

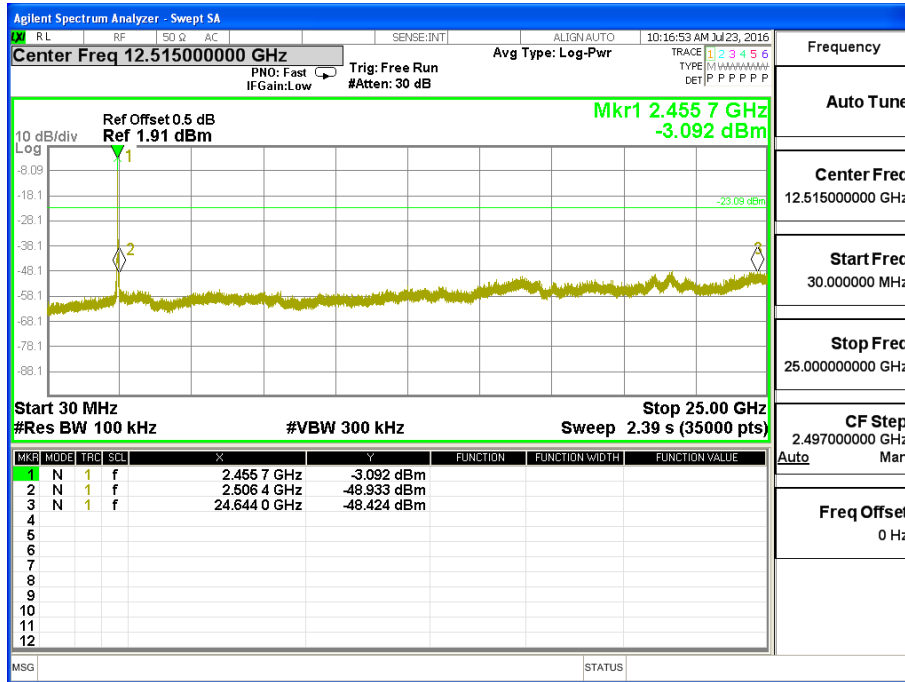


CH 06





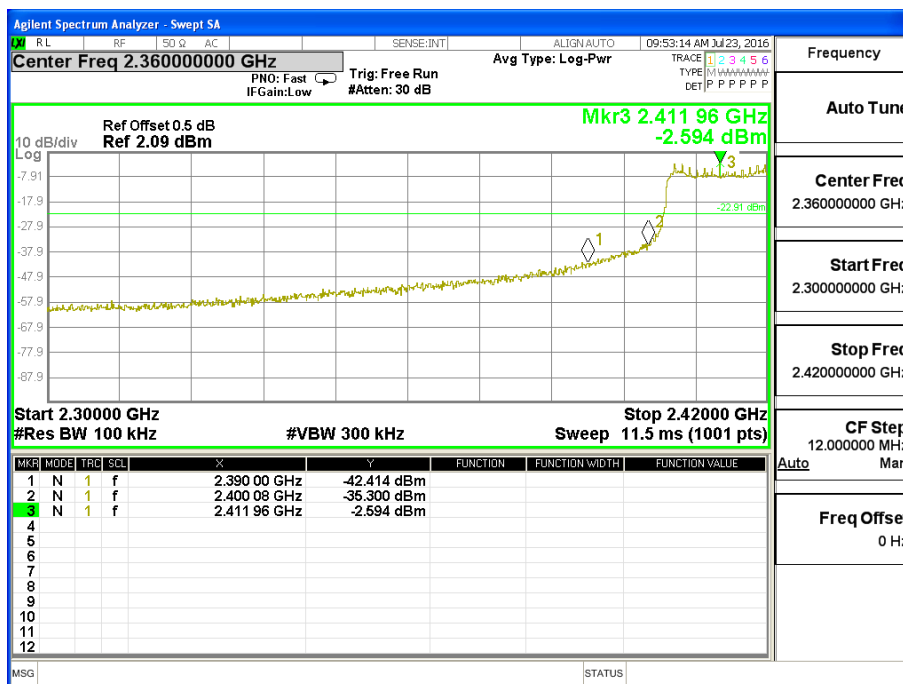
CH 11



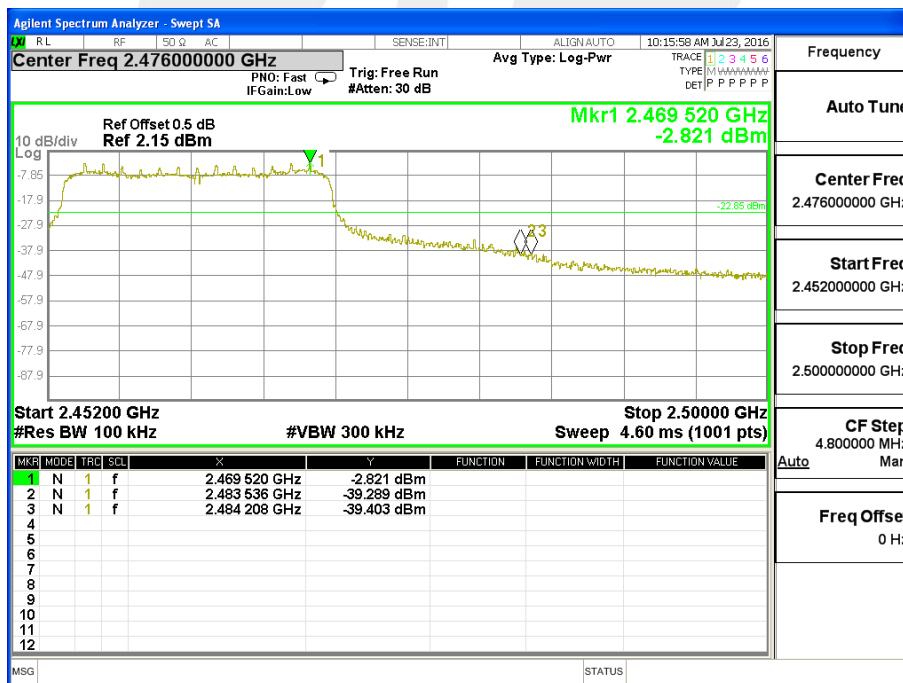


Band edge

CH 01



CH 11





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / 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

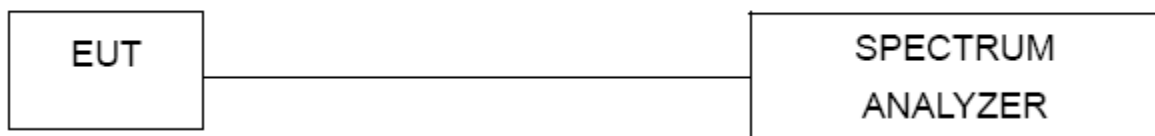
5.2 TEST PROCEDURE

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.

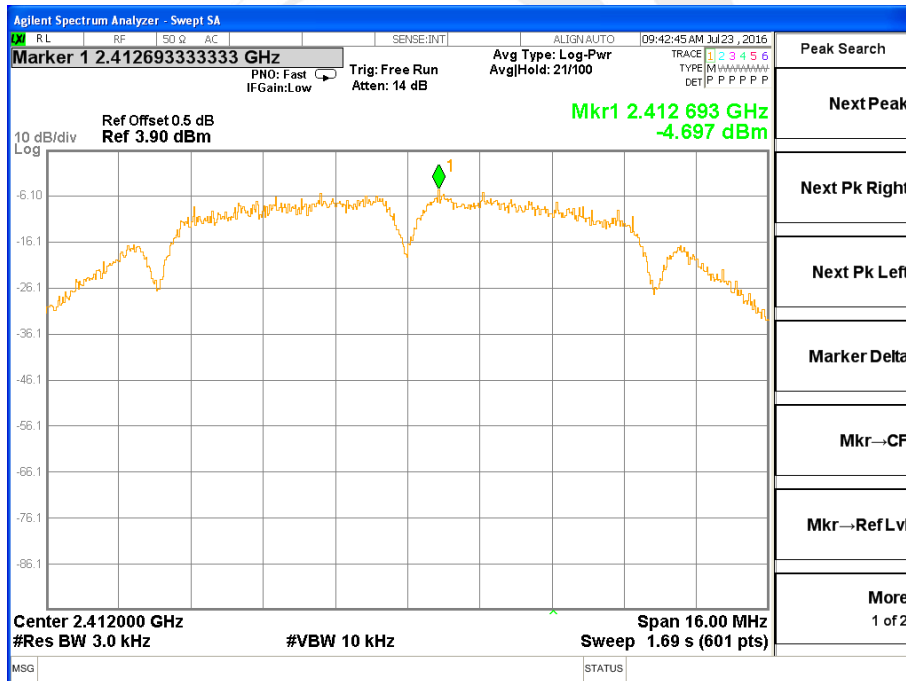


5.6 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

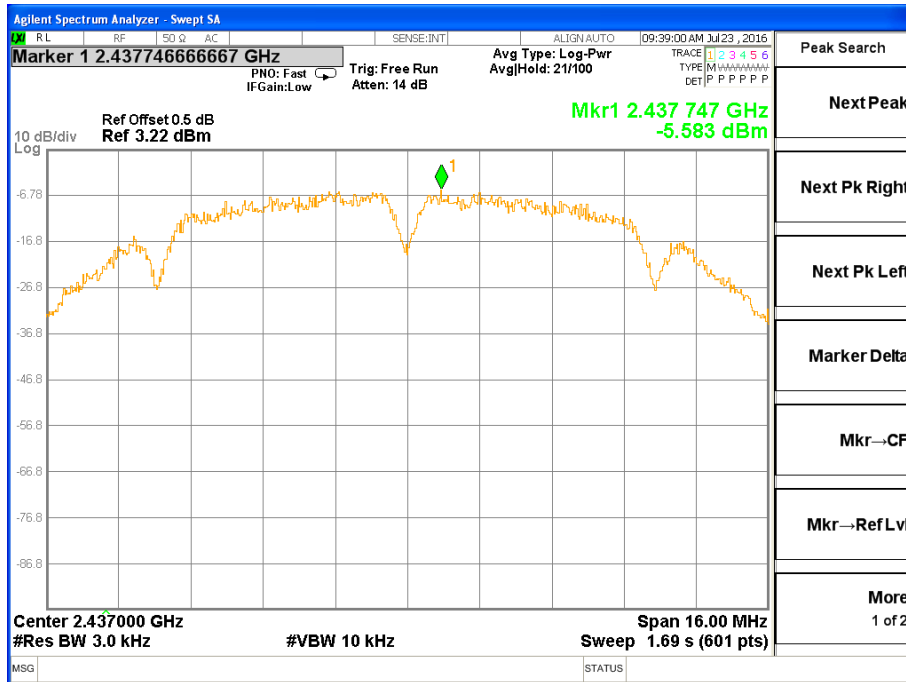
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-4.697	≤8	PASS
2437 MHz	-5.583	≤8	PASS
2462 MHz	-5.862	≤8	PASS

TX CH01

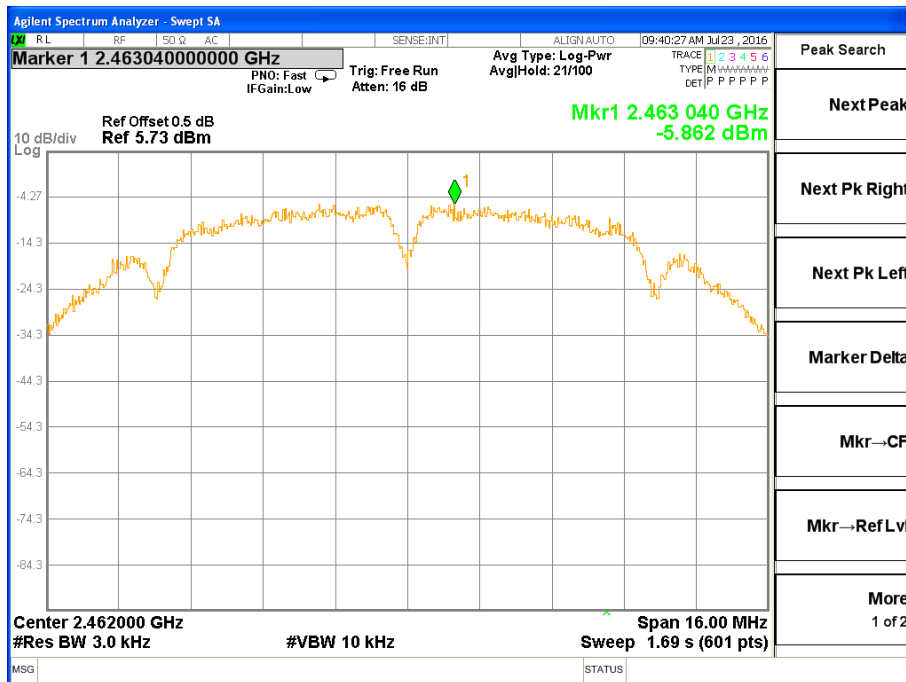




TX CH06



TX CH11

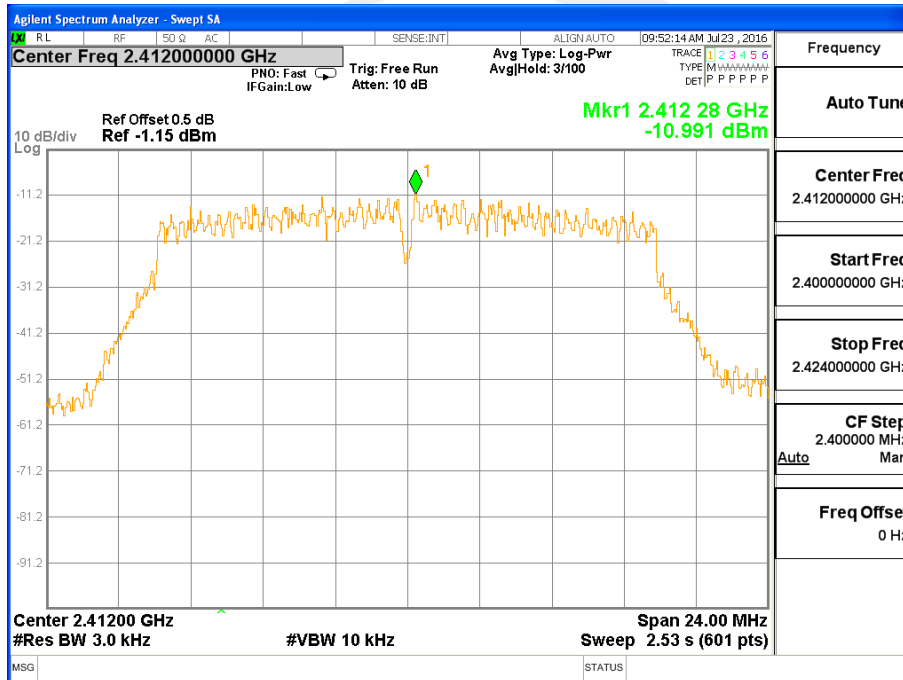




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

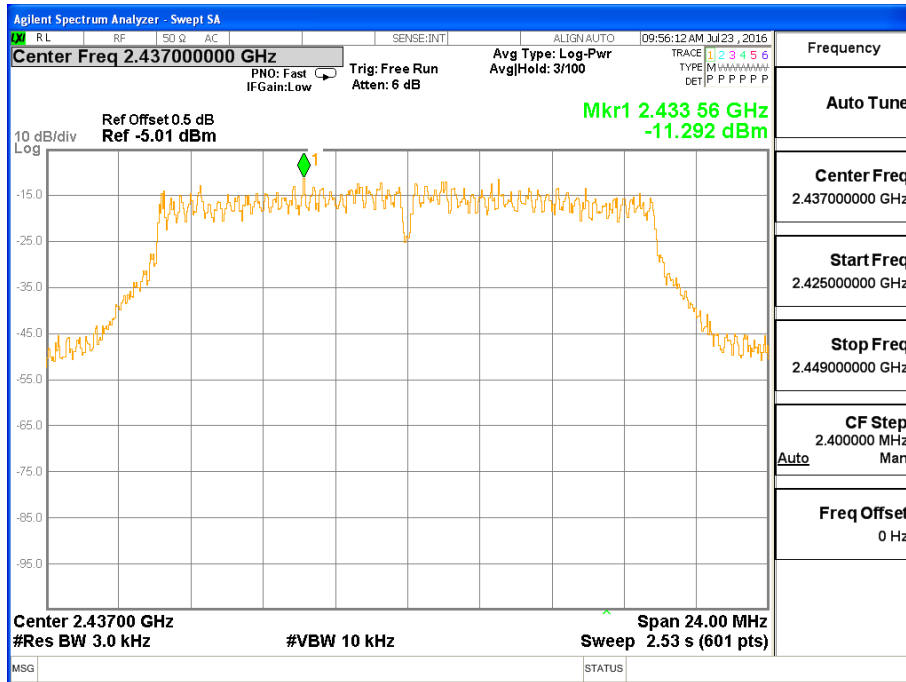
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-10.991	≤8	PASS
2437 MHz	-11.292	≤8	PASS
2462 MHz	-11.352	≤8	PASS

TX CH01

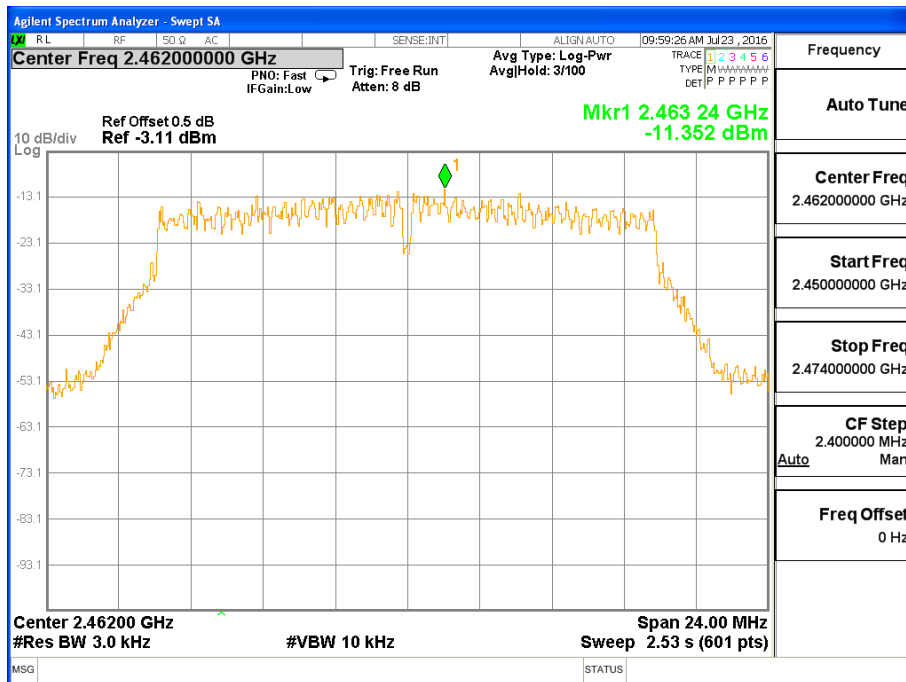




TX CH06



TX CH11

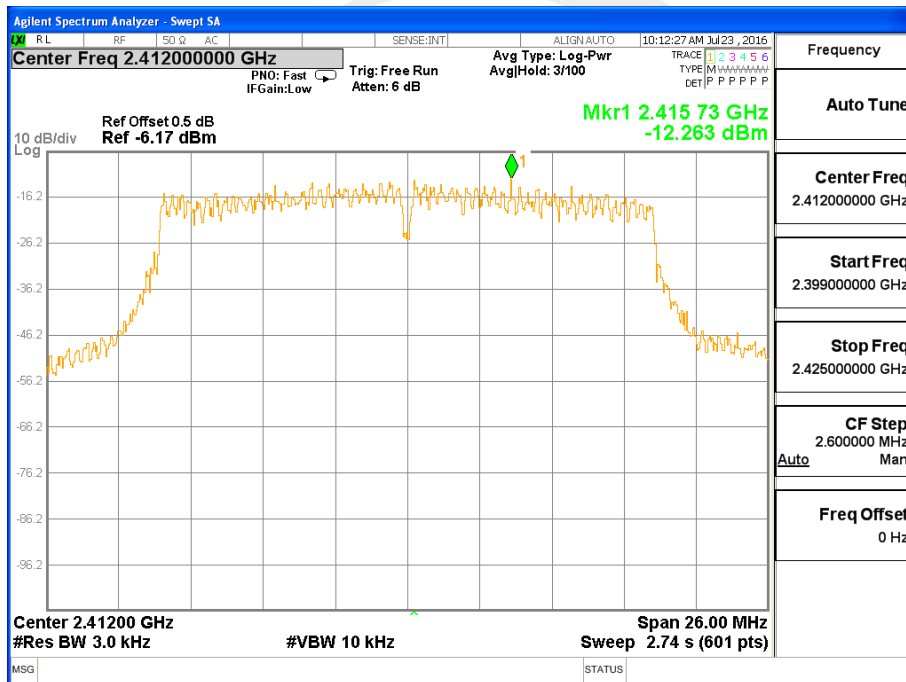




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

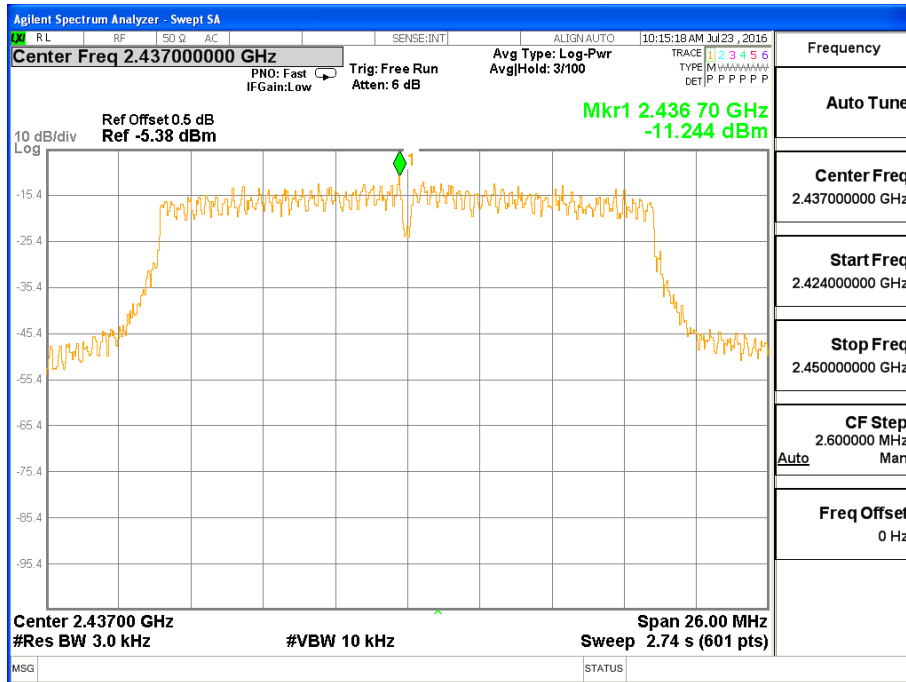
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-12.263	≤8	PASS
2437 MHz	-11.244	≤8	PASS
2462 MHz	-10.678	≤8	PASS

TX CH01

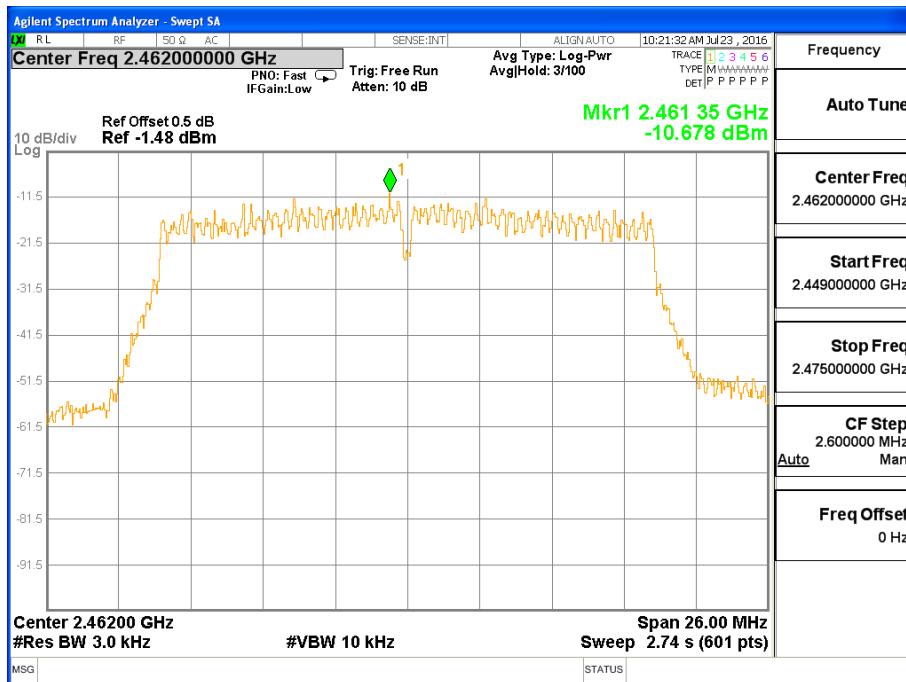




TX CH06



TX CH11



6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / 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.



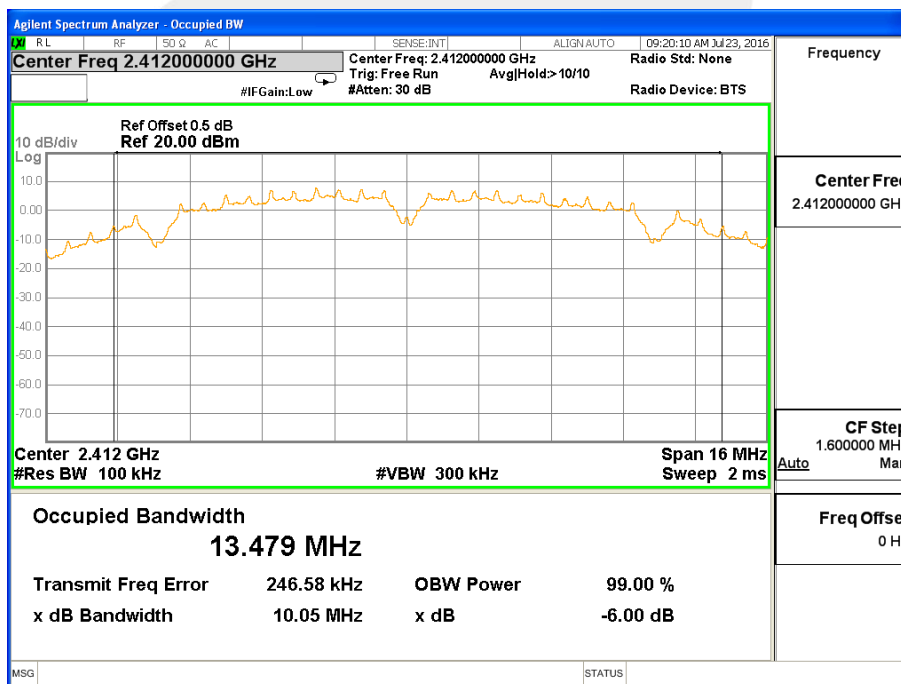
6.6 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Remark: PEAK DETECTOR IS USED

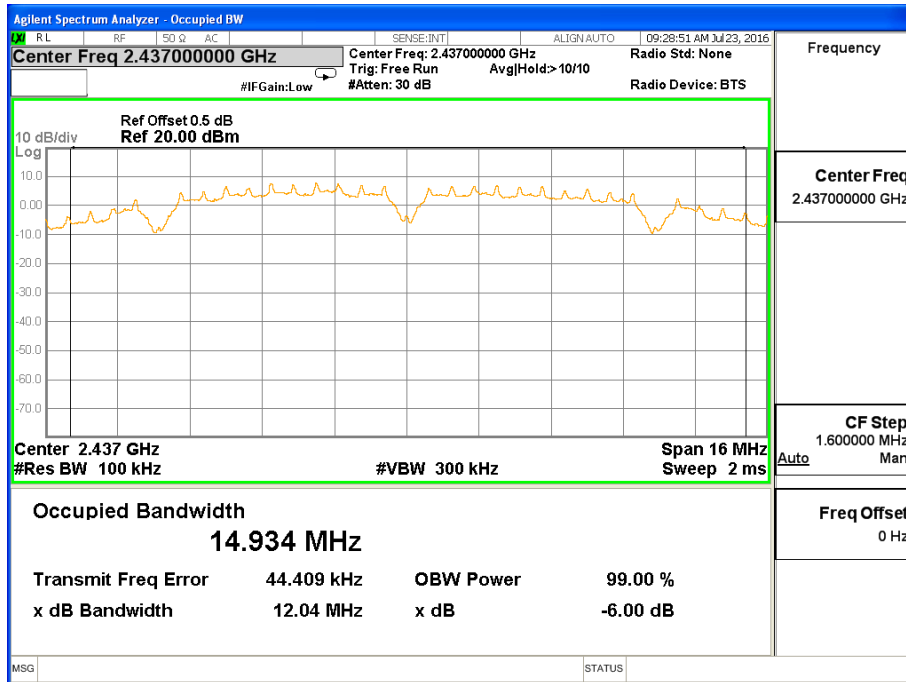
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.05	≥500KHz	PASS
2437 MHz	12.04	≥500KHz	PASS
2462 MHz	10.06	≥500KHz	PASS

TX CH 01

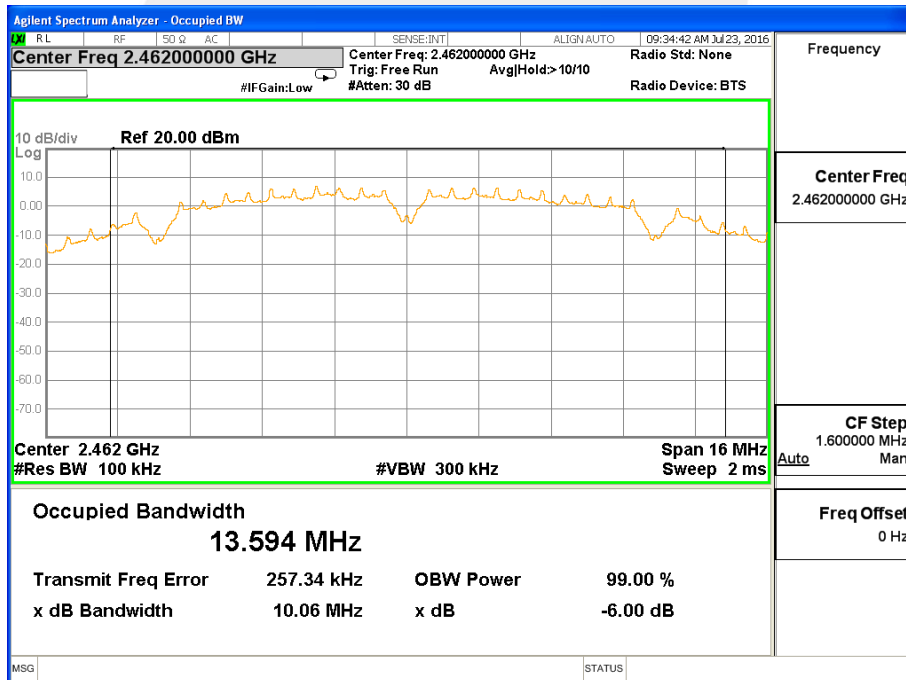




TX CH 06



TX CH 11

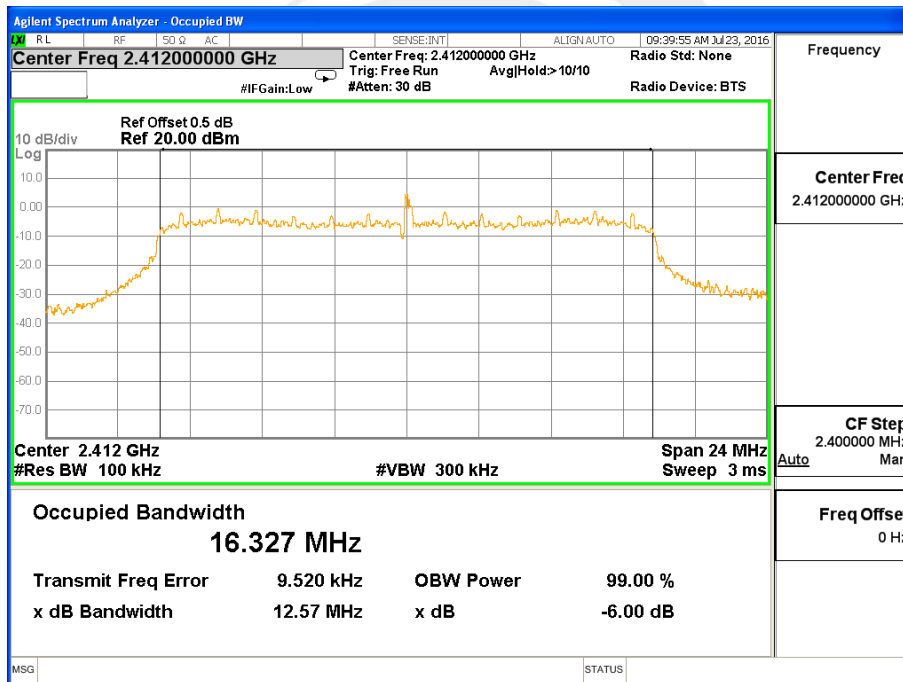




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

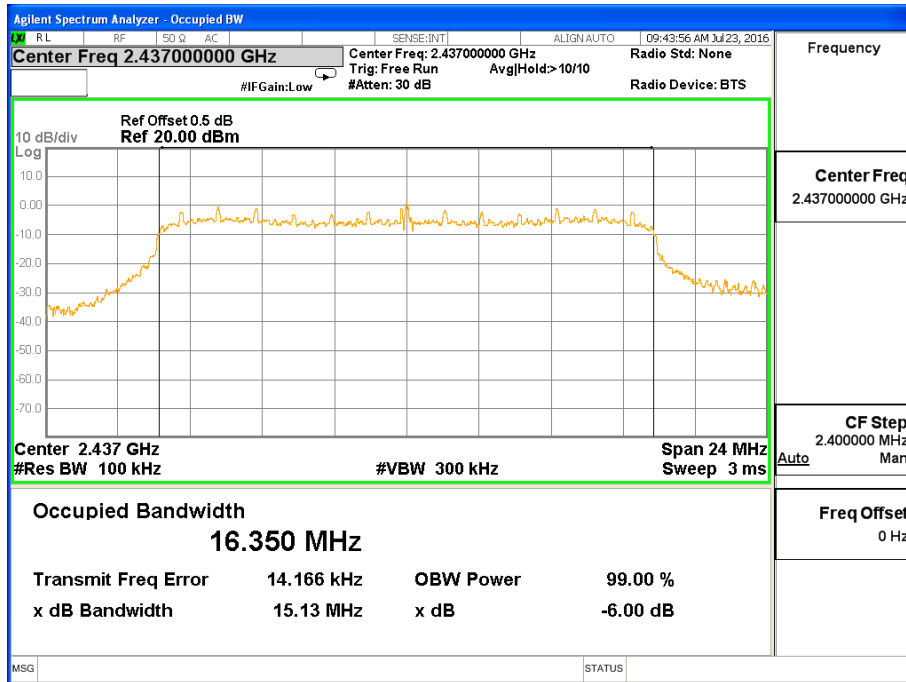
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	12.57	≥500KHz	PASS
2437 MHz	15.13	≥500KHz	PASS
2462 MHz	15.81	≥500KHz	PASS

TX CH 01

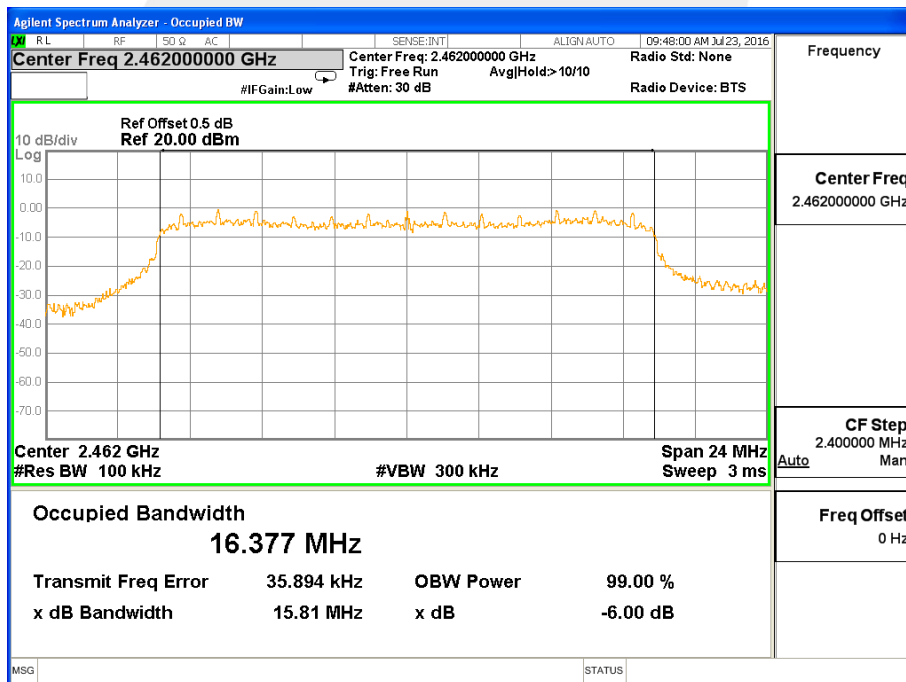




TX CH 06



TX CH 11

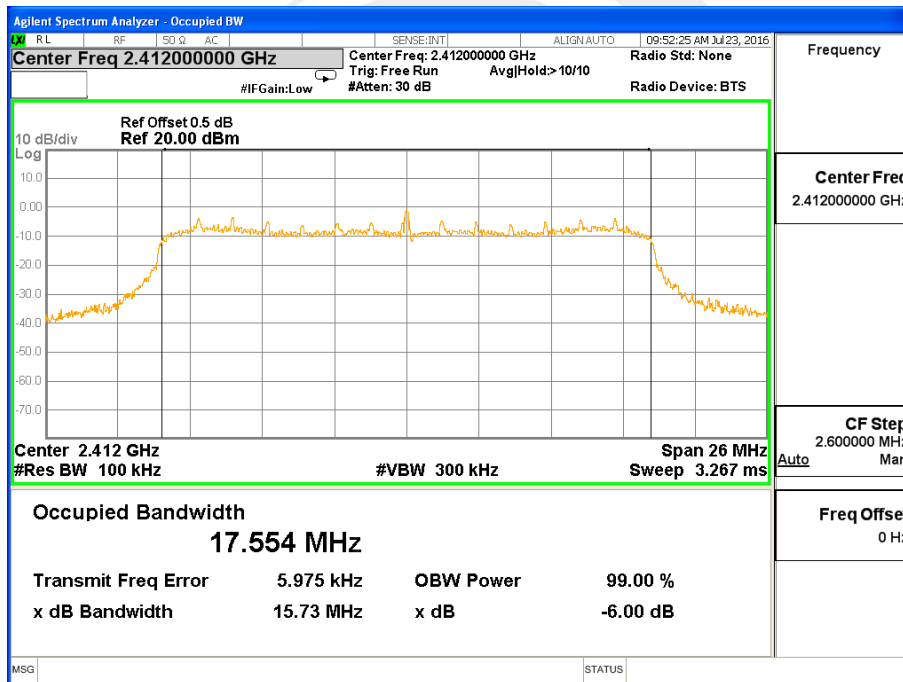




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

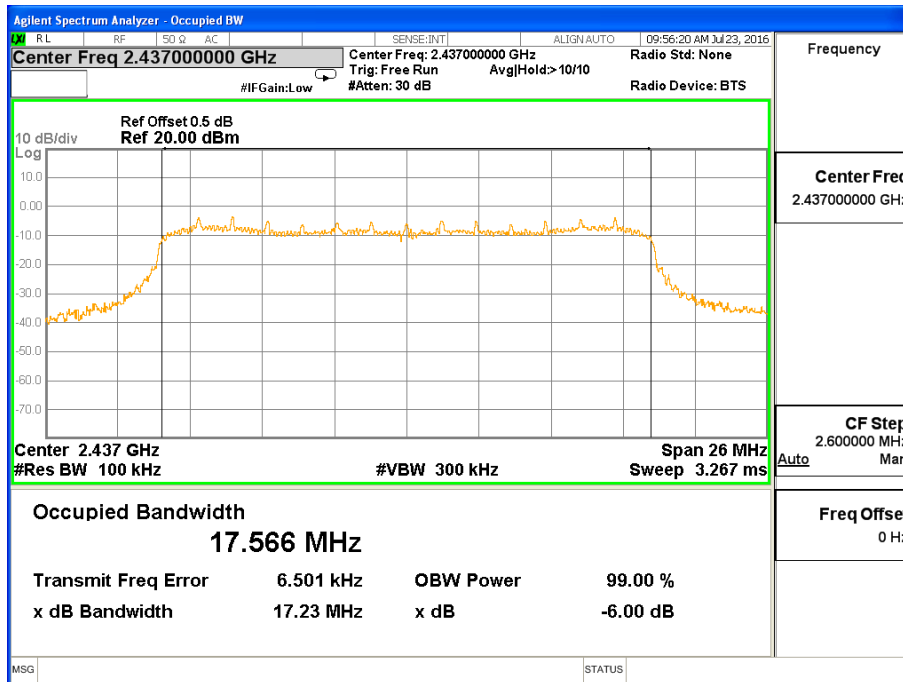
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.73	≥500KHz	PASS
2437 MHz	17.23	≥500KHz	PASS
2462 MHz	17.24	≥500KHz	PASS

TX CH 01

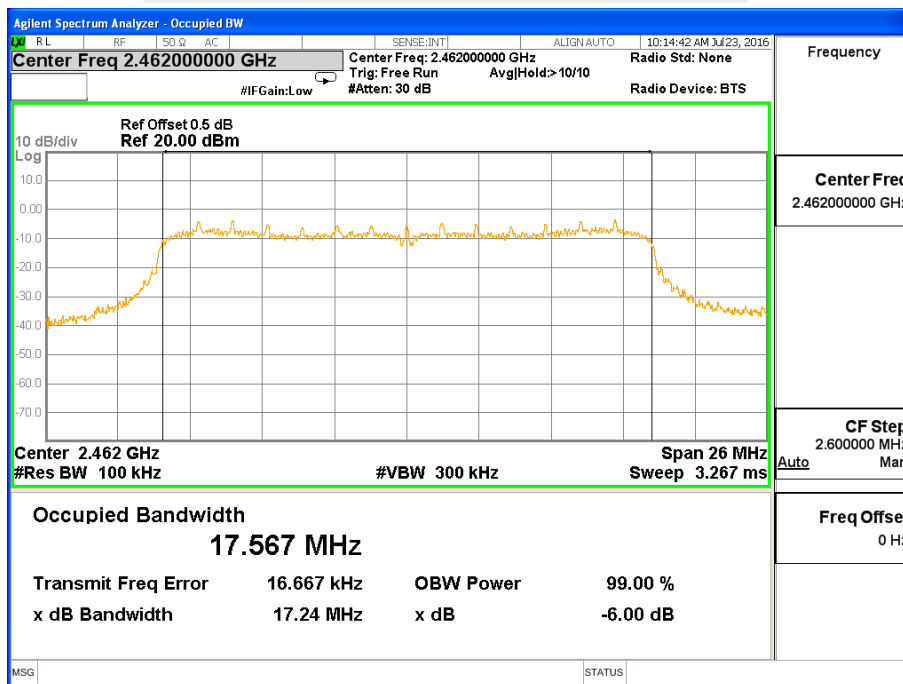




TX CH 06



TX CH 11





7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / 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

- The EUT was directly connected to the Power Sensor&PC

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%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

TX 802.11b Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	13.25	10.24	30
CH06	2437	13.69	10.32	30
CH11	2462	13.28	10.26	30

TX 802.11g Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	11.36	9.63	30
CH06	2437	11.25	9.35	30
CH11	2462	11.23	9.47	30

TX 802.11n20 Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	11.54	9.63	30
CH06	2437	11.49	9.53	30
CH11	2462	11.48	9.55	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.

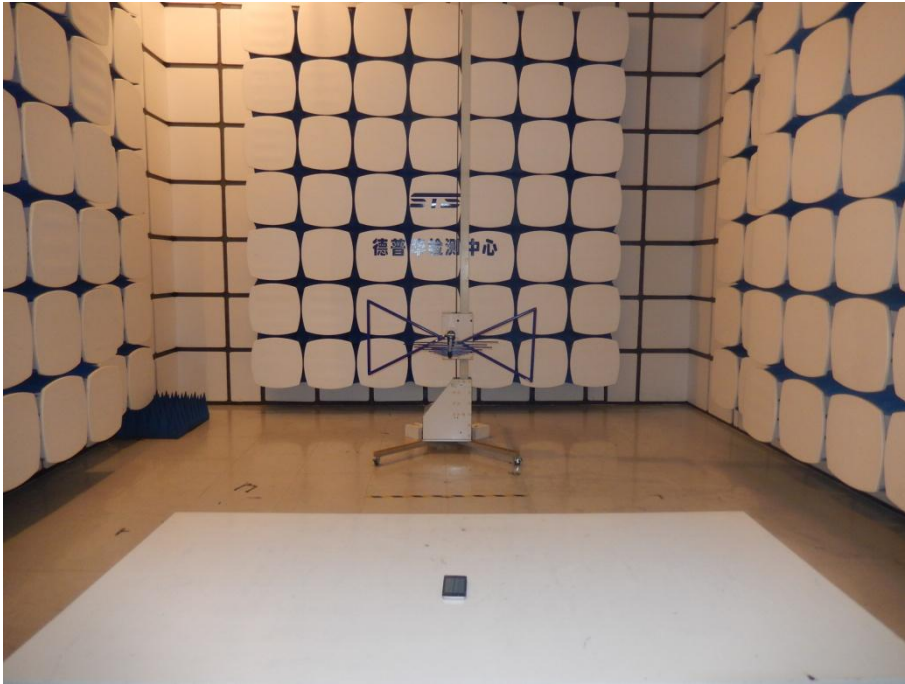
8.2 EUT ANTENNA

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



APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos



※※※※END OF THE REPORT※※※※