S T S L A B

RADIO TEST REPORT

Report No: STS1711149W03

Issued for

GuangZhou EPT Electronics CO., Ltd

3rd/F, Block No 6, Bo-Ying Industrial Garden, 481 Tainan Road, Dongchong Toen, Panyu District, Guangzhou, China

Product Name:	Car DVR
Brand Name:	Nakamichi
Model Name:	ND39w
Series Model:	ND26,ND180w,ND190w,ND19,ND66w
FCC ID:	2AOGU-ND39W
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name .....: GuangZhou EPT Electronics CO., Ltd

Address .....: 3rd/F, Block No 6, Bo-Ying Industrial Garden, 481 Tainan Road, Dongchong Toen, Panyu District, Guangzhou, China

Manufacture's Name .....: Shenzhen Jingwah Kaoge Communication Technology Co., Ltd

Address .....: 4F, Bldg22, Jingwah Electrics Pinghu Industrial Park, No.187 Liangbai Road, Liang Antian Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

Product description

Product Name.....: Car DVR

Brand Name .....: Nakamichi

Model Name .....: ND39w

Series Model.....: ND26,ND180w,ND190w,ND19,ND66w

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 (s) of performance of tests .....: 14 Nov. 2017 ~22 Nov. 2017

Date of Issue .....: 23 Nov. 2017

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

Testing Engineer : Sean She

(Sean she)

Technical Manager : Hakim. hou

(Hakim.hou)

Authorized Signatory : Vita Li

(Vita Li)

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APPROVAL

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 EUT 8
2.2 DESCRIPTION OF TEST MODES 10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 11
2.4 DESCRIPTION OF SUPPORT UNITS 12
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS 13
3. EMC EMISSION TEST **15**
3.1 CONDUCTED EMISSION MEASUREMENT 15
3.2 RADIATED EMISSION MEASUREMENT 19
4. CONDUCTED SPURIOUS & BAND EDGE EMISSION **30**
4.1 APPLIED PROCEDURES / 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 **40**
5.1 APPLIED PROCEDURES / LIMIT 40
5.2 TEST PROCEDURE 40
5.3 DEVIATION FROM STANDARD 40
5.4 TEST SETUP 40
5.5 EUT OPERATION CONDITIONS 40
5.6 TEST RESULTS 41
6. BANDWIDTH TEST **47**
6.1 APPLIED PROCEDURES / LIMIT 47
6.2 TEST PROCEDURE 47
6.3 DEVIATION FROM STANDARD 47
6.4 TEST SETUP 47
6.5 EUT OPERATION CONDITIONS 47
6.6 TEST RESULTS 48

Table of Contents **Page**

7. PEAK OUTPUT POWER TEST **54**
7.1 APPLIED PROCEDURES / LIMIT 54
7.2 TEST PROCEDURE 54
7.3 DEVIATION FROM STANDARD 54
7.4 TEST SETUP 54
7.5 EUT OPERATION CONDITIONS 54
7.6 TEST RESULTS 55
8. ANTENNA REQUIREMENT **56**
8.1 STANDARD REQUIREMENT 56
8.2 EUT ANTENNA 56
APPENDIX - PHOTOS OF TEST SETUP **57**

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	23 Nov. 2017	STS1711149W03	ALL	Initial Issue

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 DTS Meas Guidance v04

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. : 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.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

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	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated (9KHz-30MHz)	±3.02dB
6	All emissions,radiated (30MHz-200MHz)	±3.80dB
7	All emissions,radiated (200MHz-1000MHz)	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Product Name</td><td>Car DVR</td></tr>
<tr><td>Trade Name</td><td>Nakamichi</td></tr>
<tr><td>Model Name</td><td>ND39w</td></tr>
<tr><td>Series Model</td><td>ND26,ND180w,ND190w,ND19,ND66w</td></tr>
<tr><td>Model Difference</td><td>Only different in appearance and model name</td></tr>
<tr><td>Product Description</td><td>The EUT is a Car DVR
<table>
<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>1 dBi</td></tr>
<tr><td>Duty Cycle:</td><td>>98%</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Adapter</td><td>Power supply and ADP(rating):
Input: DC 12V-30V, 750mA
Output: DC5V, 1500mA</td></tr>
<tr><td>Hardware version number</td><td>R850-I1-MAIN-V3-20170822</td></tr>
<tr><td>Software version number</td><td>0004.2017.1102</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

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	Nakamichi	ND39w	PIFA Antenna	N/A	1	WLAN 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

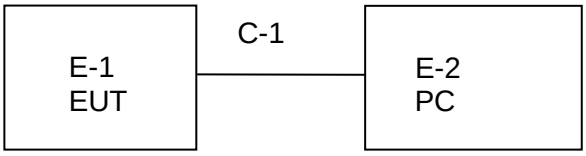
Note:
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V 60Hz is shown in the report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

AC Conducted Emission

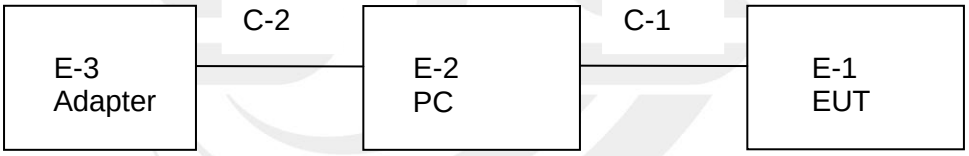
Test Case	
AC Conducted Emission	Mode10: Keeping WIFI TX

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



conduction Test Set



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-2	PC	Lenovo	N/A	N/A	N/A
E-3	Adapter	N/A	PA-1650-86	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB connecting line	NO	110cm	N/A
C-2	Cable shielded line (Charging)	NO	100cm	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
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.03.06	2018.03.05
SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA9170367	2017.05.02	2018.05.01
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
Pre-mplifier (18G-40G)	MINI-CIRCUITS	AP-040G	1382501	2017.05.15	2018.05.14
Operational Manual Passive Loop (9K--30MHz)	ETS	6512	00165355	2017.03.06	2018.03.05
Low frequency cable	EM	R01	N/A	2017.03.12	2018.03.11
Low frequency cable	EM	R06	N/A	2017.03.12	2018.03.11
High frequency cable	SCHWARZBECK	R04	N/A	2017.03.12	2018.03.11
High frequency cable	SCHWARZBECK	R02	N/A	2017.03/12	2018.03.11
Semi-anechoic chamber	Changling	966	N/A	2017.10.15	2018.10.14
trun table	EM	SC100_1	60531	N/A	N/A
Antnna mast	EM	SC100	N/A	N/A	N/A
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
conduction Cable	EM	C01	N/A	2017.03.12	2018.03.11
Temperature & Humitidy	Mieo	HH660	N/A	2017.10.15	2018.10.14

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10

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.

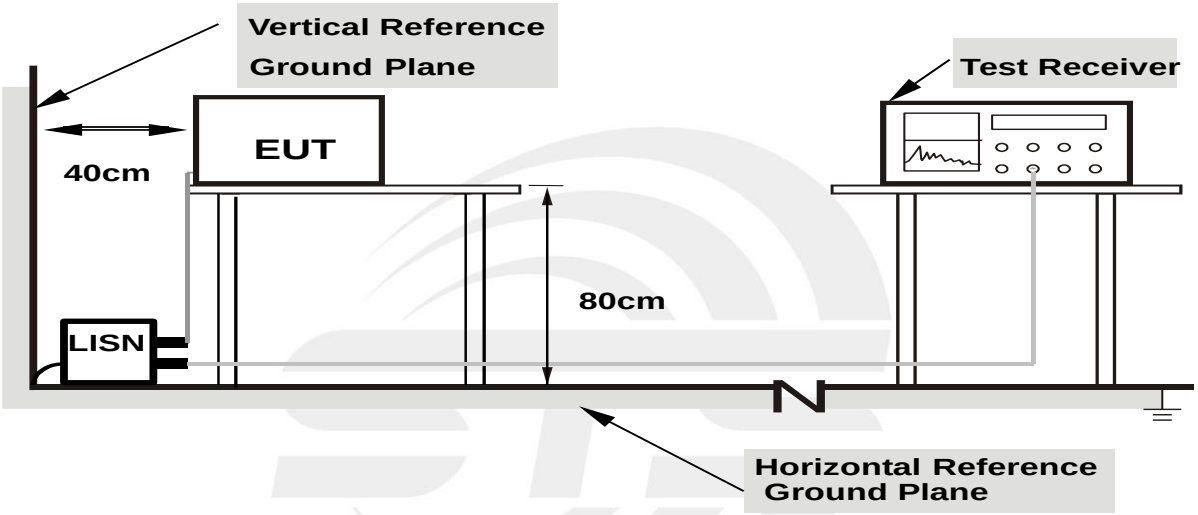
The following table is the setting of the receiver

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 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

3.1.4 EUT OPERATING CONDITIONS

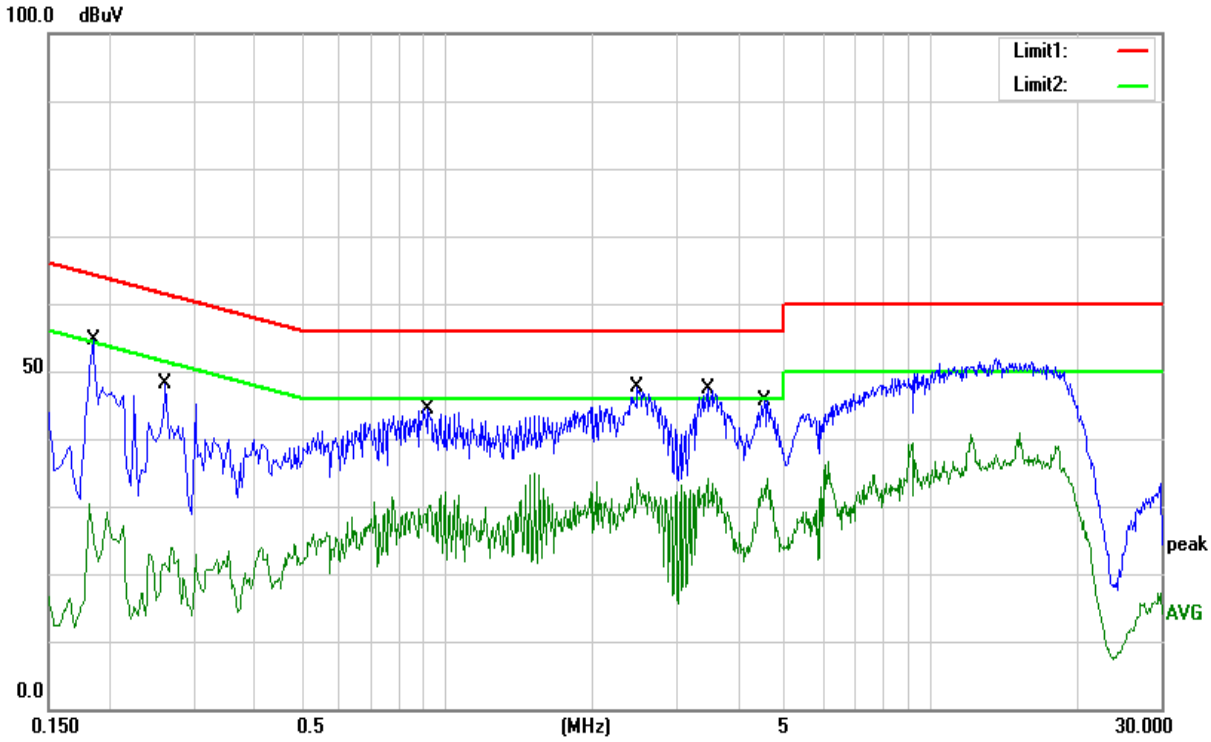
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Temperature:	26.5 ℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1860	44.88	9.78	54.66	64.21	-9.55	QP
0.1860	14.09	9.78	23.87	54.21	-30.34	AVG
0.2620	37.97	10.06	48.03	61.37	-13.34	QP
0.2620	13.84	10.06	23.90	51.37	-27.47	AVG
0.9180	34.49	9.81	44.30	56.00	-11.70	QP
0.9180	20.36	9.81	30.17	46.00	-15.83	AVG
2.4740	37.79	9.80	47.59	56.00	-8.41	QP
2.4740	22.14	9.80	31.94	46.00	-14.06	AVG
3.4700	37.46	9.82	47.28	56.00	-8.72	QP
3.4700	21.05	9.82	30.87	46.00	-15.13	AVG
4.5300	35.71	9.85	45.56	56.00	-10.44	QP
4.5300	21.52	9.85	31.37	46.00	-14.63	AVG

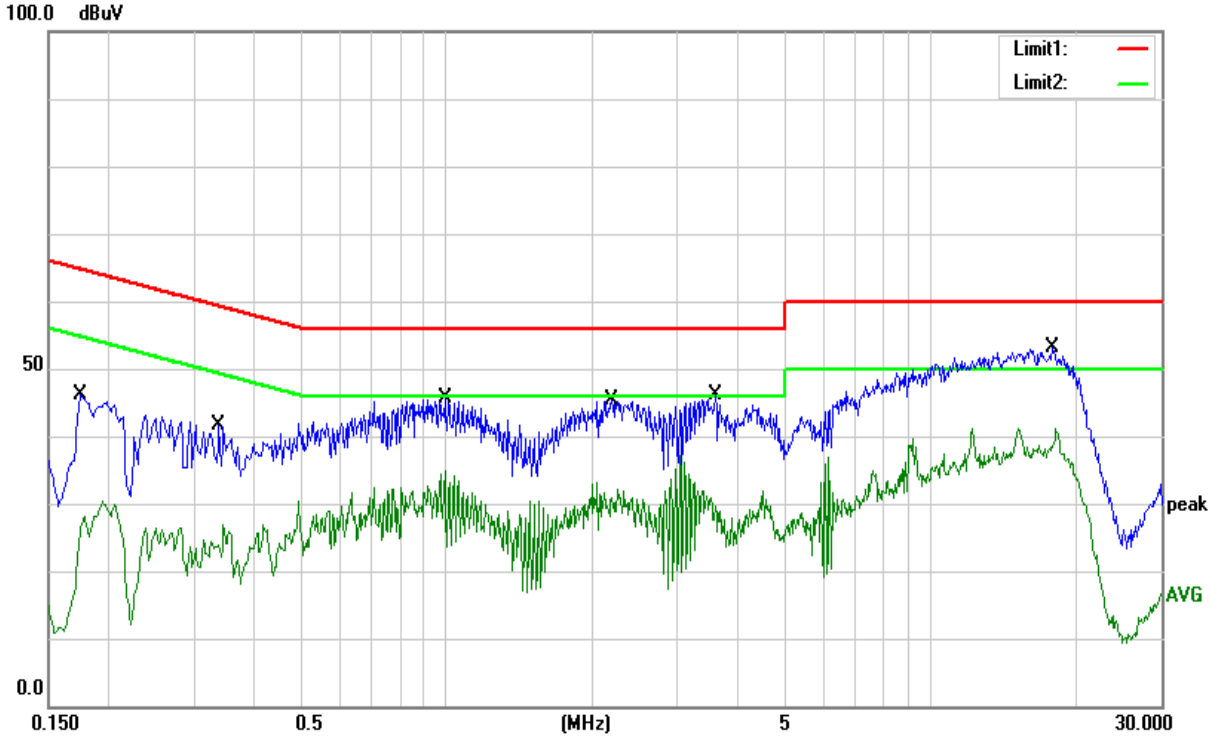
Remark:
1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit



Temperature:	26.5 ℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1740	36.40	9.81	46.21	64.77	-18.56	QP
0.1740	17.74	9.81	27.55	54.77	-27.22	AVG
0.3380	31.49	10.19	41.68	59.25	-17.57	QP
0.3380	16.23	10.19	26.42	49.25	-22.83	AVG
0.9900	35.78	9.80	45.58	56.00	-10.42	QP
0.9900	23.34	9.80	33.14	46.00	-12.86	AVG
2.1900	35.59	9.89	45.48	56.00	-10.52	QP
2.1900	20.26	9.89	30.15	46.00	-15.85	AVG
3.5980	36.21	9.93	46.14	56.00	-9.86	QP
3.5980	15.84	9.93	25.77	46.00	-20.23	AVG
17.9340	42.70	10.31	53.01	60.00	-6.99	QP
17.9340	30.41	10.31	40.72	50.00	-9.28	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 (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 (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).

For Radiated Emission

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz

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

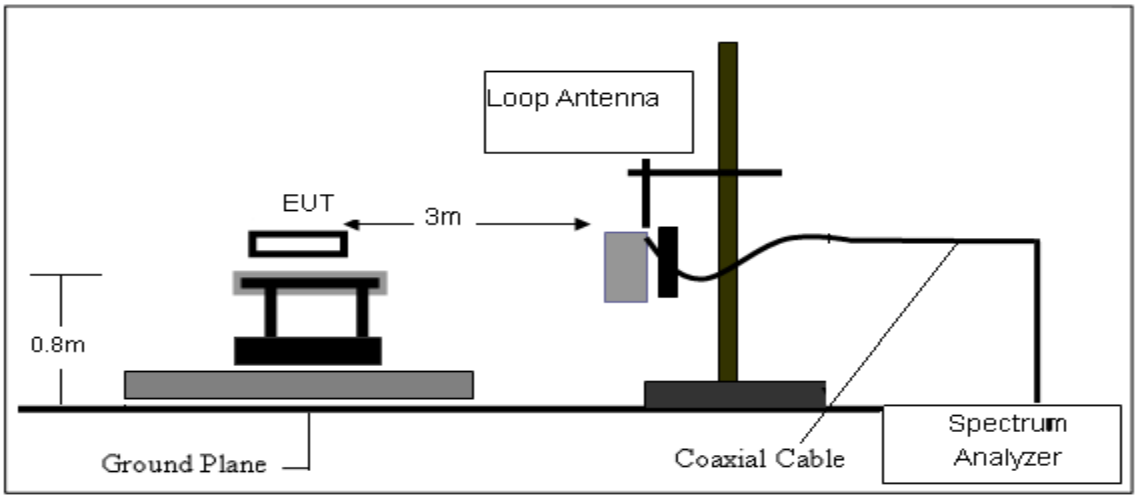
a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. 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
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

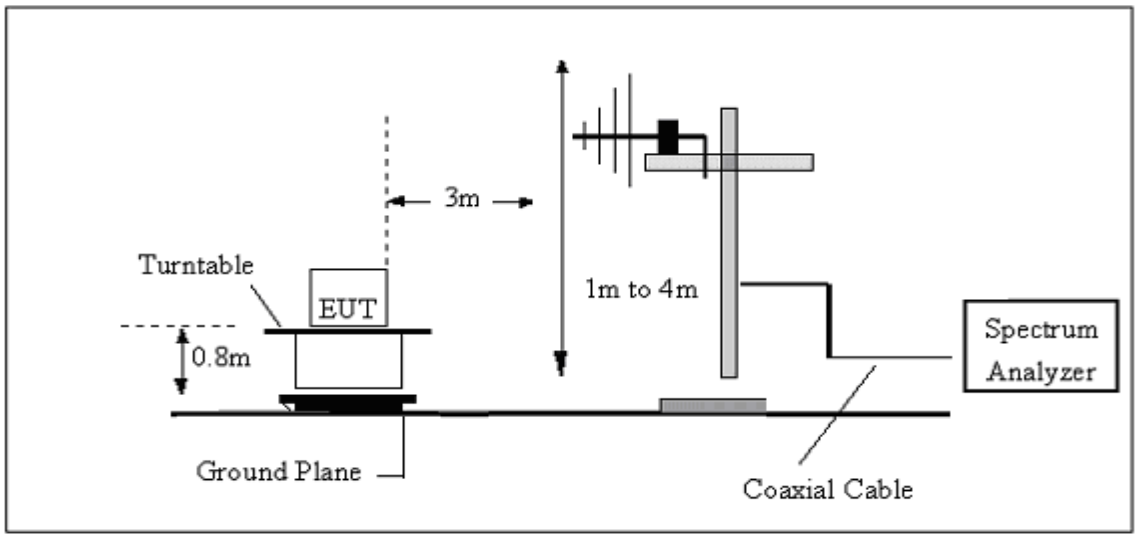
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

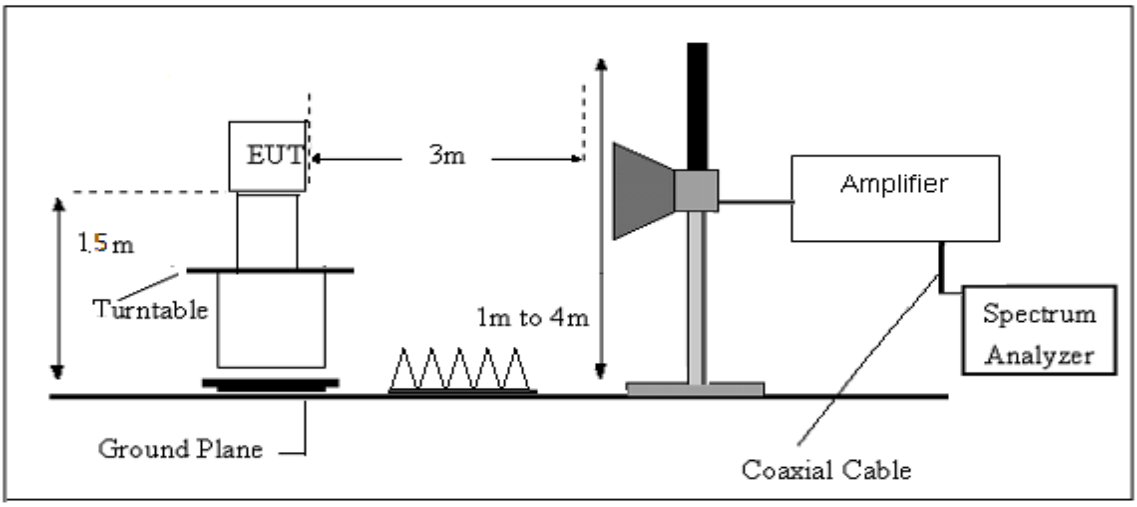
（A）Radiated Emission Test-Up Frequency Below 30MHz



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

Factor=AF+CL-AG

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
Tel: + 86-755 3688 6288 Fax:+ 86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com

3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	24.4 ℃	Relative Humidity:	57%
Pressure:	1010 hPa	Test Voltage:	DC 5V from Adapter
Test Mode:	TX Mode	Polarization:	--

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

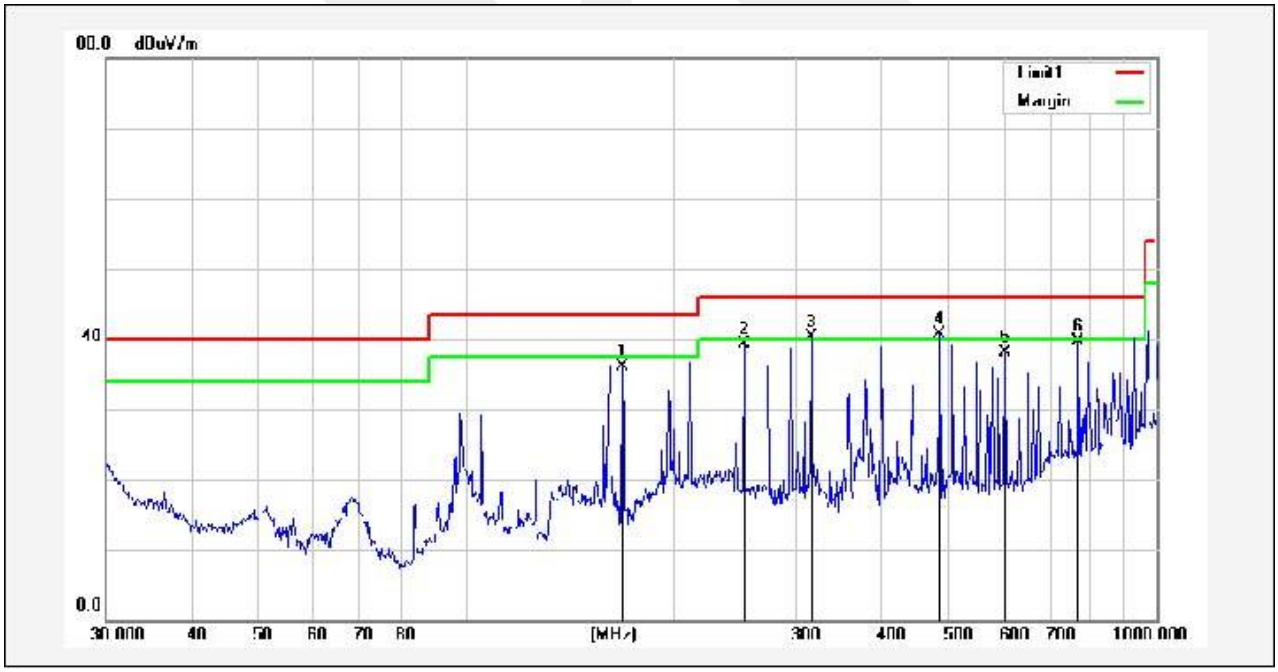
Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

(30MHz - 1000MHz)

Temperature:	24.4 ℃	Relative Humidity:	57%
Pressure:	1010 hPa	Test Voltage:	DC 5V from Adapter
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-3M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
167.8240	55.34	-19.15	36.19	43.50	-7.31	QP
252.0627	55.47	-16.07	39.40	46.00	-6.60	QP
315.4806	54.57	-14.32	40.25	46.00	-5.75	QP
483.9094	49.98	-9.29	40.69	46.00	-5.31	QP
601.4265	45.28	-7.12	38.16	46.00	-7.84	QP
768.7481	43.11	-3.39	39.72	46.00	-6.28	QP

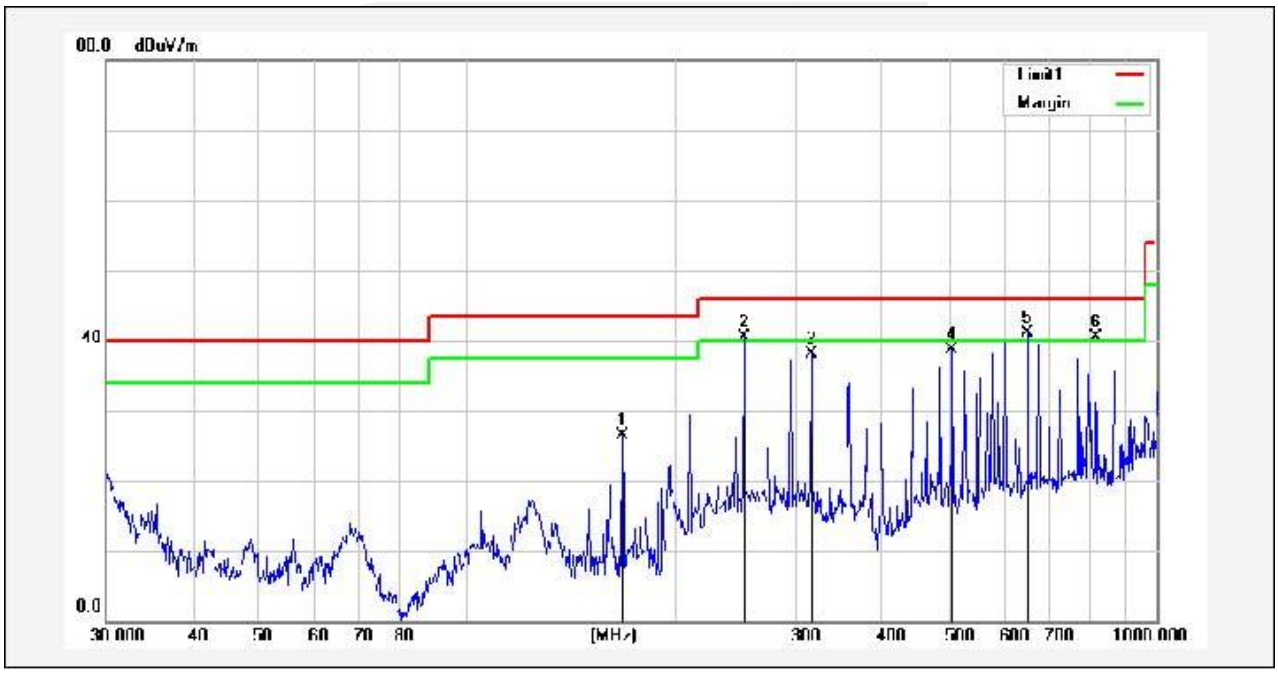
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit



Temperature:	24.4 ℃	Relative Humidity:	57%
Pressure:	1010 hPa	Test Voltage:	DC 5V from Adapter
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-3M worst mode)	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
167.8240	45.58	-19.15	26.43	43.50	-17.07	QP
252.0627	56.51	-16.07	40.44	46.00	-5.56	QP
315.4806	52.46	-14.32	38.14	46.00	-7.86	QP
504.7062	47.61	-8.89	38.72	46.00	-7.28	QP
649.6597	47.49	-6.31	41.18	46.00	-4.82	QP
815.9678	44.03	-3.51	40.52	46.00	-5.48	QP

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



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

802.11b Low Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2412 MHz)										
3264.80	48.76	44.70	6.70	28.20	-9.80	38.96	74.00	-35.04	PK	Vertical
3264.80	39.80	44.70	6.70	28.20	-9.80	30.00	54.00	-24.00	AV	Vertical
3264.71	48.11	44.70	6.70	28.20	-9.80	38.31	74.00	-35.69	PK	Horizontal
3264.71	38.72	44.70	6.70	28.20	-9.80	28.92	54.00	-25.08	AV	Horizontal
4824.45	58.65	44.20	9.04	31.60	-3.56	55.09	74.00	-18.91	PK	Vertical
4824.45	39.27	44.20	9.04	31.60	-3.56	35.71	54.00	-18.29	AV	Vertical
4824.48	58.78	44.20	9.04	31.60	-3.56	55.22	74.00	-18.78	PK	Horizontal
4824.48	38.97	44.20	9.04	31.60	-3.56	35.41	54.00	-18.59	AV	Horizontal
5359.65	46.41	44.20	9.86	32.00	-2.34	44.07	74.00	-29.93	PK	Vertical
5359.65	37.24	44.20	9.86	32.00	-2.34	34.90	54.00	-19.10	AV	Vertical
5359.71	46.17	44.20	9.86	32.00	-2.34	43.83	74.00	-30.17	PK	Horizontal
5359.71	38.29	44.20	9.86	32.00	-2.34	35.95	54.00	-18.05	AV	Horizontal
7235.77	51.64	43.50	11.40	35.50	3.40	55.04	74.00	-18.96	PK	Vertical
7235.77	32.51	43.50	11.40	35.50	3.40	35.91	54.00	-18.09	AV	Vertical
7235.79	51.52	43.50	11.40	35.50	3.40	54.92	74.00	-19.08	PK	Horizontal
7235.79	32.38	43.50	11.40	35.50	3.40	35.78	54.00	-18.22	AV	Horizontal

802.11b Mid Channel

Frequency (MHz)	Reading (dBμV)	Amplifier （dB）	Loss （dB）	Antenna Factor （dB/m）	Corrected Factor （dB）	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Mid Channel (2437 MHz)										
3264.75	48.82	44.70	6.70	28.20	-9.80	39.02	74.00	-34.98	PK	Vertical
3264.75	39.52	44.70	6.70	28.20	-9.80	29.72	54.00	-24.28	AV	Vertical
3264.79	48.33	44.70	6.70	28.20	-9.80	38.53	74.00	-35.47	PK	Horizontal
3264.79	39.02	44.70	6.70	28.20	-9.80	29.22	54.00	-24.78	AV	Horizontal
4874.42	58.12	44.20	9.04	31.60	-3.56	54.56	74.00	-19.44	PK	Vertical
4874.42	38.11	44.20	9.04	31.60	-3.56	34.55	54.00	-19.45	AV	Vertical
4874.35	59.29	44.20	9.04	31.60	-3.56	55.73	74.00	-18.27	PK	Horizontal
4874.35	39.30	44.20	9.04	31.60	-3.56	35.74	54.00	-18.26	AV	Horizontal
5359.60	46.09	44.20	9.86	32.00	-2.34	43.75	74.00	-30.25	PK	Vertical
5359.60	37.48	44.20	9.86	32.00	-2.34	35.14	54.00	-18.86	AV	Vertical
5359.86	45.59	44.20	9.86	32.00	-2.34	43.25	74.00	-30.75	PK	Horizontal
5359.86	38.48	44.20	9.86	32.00	-2.34	36.14	54.00	-17.86	AV	Horizontal
7310.83	50.87	43.50	11.40	35.50	3.40	54.27	74.00	-19.73	PK	Vertical
7310.83	32.84	43.50	11.40	35.50	3.40	36.24	54.00	-17.76	AV	Vertical
7310.69	50.89	43.50	11.40	35.50	3.40	54.29	74.00	-19.71	PK	Horizontal
7310.69	33.09	43.50	11.40	35.50	3.40	36.49	54.00	-17.51	AV	Horizontal
3264.75	48.82	44.70	6.70	28.20	-9.80	39.02	74.00	-34.98	PK	Vertical

802.11b High Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
High Channel (2462 MHz)										
3264.73	47.86	44.70	6.70	28.20	-9.80	38.06	74.00	-35.94	PK	Vertical
3264.73	37.98	44.70	6.70	28.20	-9.80	28.18	54.00	-25.82	AV	Vertical
3264.68	48.42	44.70	6.70	28.20	-9.80	38.62	74.00	-35.38	PK	Horizontal
3264.68	38.96	44.70	6.70	28.20	-9.80	29.16	54.00	-24.84	AV	Horizontal
4924.36	58.53	44.20	9.04	31.60	-3.56	54.97	74.00	-19.03	PK	Vertical
4924.36	38.34	44.20	9.04	31.60	-3.56	34.78	54.00	-19.22	AV	Vertical
4924.35	59.37	44.20	9.04	31.60	-3.56	55.81	74.00	-18.19	PK	Horizontal
4924.35	39.31	44.20	9.04	31.60	-3.56	35.75	54.00	-18.25	AV	Horizontal
5359.60	46.16	44.20	9.86	32.00	-2.34	43.82	74.00	-30.18	PK	Vertical
5359.60	38.15	44.20	9.86	32.00	-2.34	35.81	54.00	-18.19	AV	Vertical
5359.59	45.47	44.20	9.86	32.00	-2.34	43.13	74.00	-30.87	PK	Horizontal
5359.59	37.06	44.20	9.86	32.00	-2.34	34.72	54.00	-19.28	AV	Horizontal
7385.87	50.79	43.50	11.40	35.50	3.40	54.19	74.00	-19.81	PK	Vertical
7385.87	32.72	43.50	11.40	35.50	3.40	36.12	54.00	-17.88	AV	Vertical
7385.85	51.08	43.50	11.40	35.50	3.40	54.48	74.00	-19.52	PK	Horizontal
7385.85	32.52	43.50	11.40	35.50	3.40	35.92	54.00	-18.08	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 802.11b.
   Emission Level = Reading + Factor
   Margin = Limit - Emission Leve

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)

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b										
2390.00	68.05	43.80	4.91	25.90	-12.99	55.06	74.00	-18.94	PK	Vertical
2390.00	53.65	43.80	4.91	25.90	-12.99	40.66	54.00	-13.34	AV	Vertical
2390.00	69.01	43.80	4.91	25.90	-12.99	56.02	74.00	-17.98	PK	Horizontal
2390.00	52.56	43.80	4.91	25.90	-12.99	39.57	54.00	-14.43	AV	Horizontal
2483.50	70.18	43.80	5.12	25.90	-12.78	57.40	74.00	-16.60	PK	Vertical
2483.50	53.25	43.80	5.12	25.90	-12.78	40.47	54.00	-13.53	AV	Vertical
2483.50	70.13	43.80	5.12	25.90	-12.78	57.35	74.00	-16.65	PK	Horizontal
2483.50	53.18	43.80	5.12	25.90	-12.78	40.40	54.00	-13.60	AV	Horizontal
802.11g										
2390.00	66.01	43.80	4.91	25.90	-12.99	53.02	74.00	-20.98	PK	Vertical
2390.00	52.50	43.80	4.91	25.90	-12.99	39.51	54.00	-14.49	AV	Vertical
2390.00	65.46	43.80	4.91	25.90	-12.99	52.47	74.00	-21.53	PK	Horizontal
2390.00	54.45	43.80	4.91	25.90	-12.99	41.46	54.00	-12.54	AV	Horizontal
2483.50	65.32	43.80	5.12	25.90	-12.78	52.54	74.00	-21.46	PK	Vertical
2483.50	52.97	43.80	5.12	25.90	-12.78	40.19	54.00	-13.81	AV	Vertical
2483.50	65.30	43.80	5.12	25.90	-12.78	52.52	74.00	-21.48	PK	Horizontal
2483.50	52.35	43.80	5.12	25.90	-12.78	39.57	54.00	-14.43	AV	Horizontal
802.11n20										
2390.00	67.09	43.80	4.91	25.90	-12.99	54.10	74.00	-19.90	PK	Vertical
2390.00	52.80	43.80	4.91	25.90	-12.99	39.81	54.00	-14.19	AV	Vertical
2390.00	65.95	43.80	4.91	25.90	-12.99	52.96	74.00	-21.04	PK	Horizontal
2390.00	53.00	43.80	4.91	25.90	-12.99	40.01	54.00	-13.99	AV	Horizontal
2483.50	65.42	43.80	5.12	25.90	-12.78	52.64	74.00	-21.36	PK	Vertical
2483.50	53.14	43.80	5.12	25.90	-12.78	40.36	54.00	-13.64	AV	Vertical
2483.50	65.47	43.80	5.12	25.90	-12.78	52.69	74.00	-21.31	PK	Horizontal
2483.50	52.73	43.80	5.12	25.90	-12.78	39.95	54.00	-14.05	AV	Horizontal

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Low measurement frequencies is range from 2300 to 2412 MHz, high measurement frequencies is range from 2462 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2412 MHz and 2462-2500 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

.

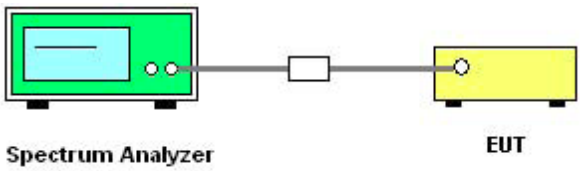
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462 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.

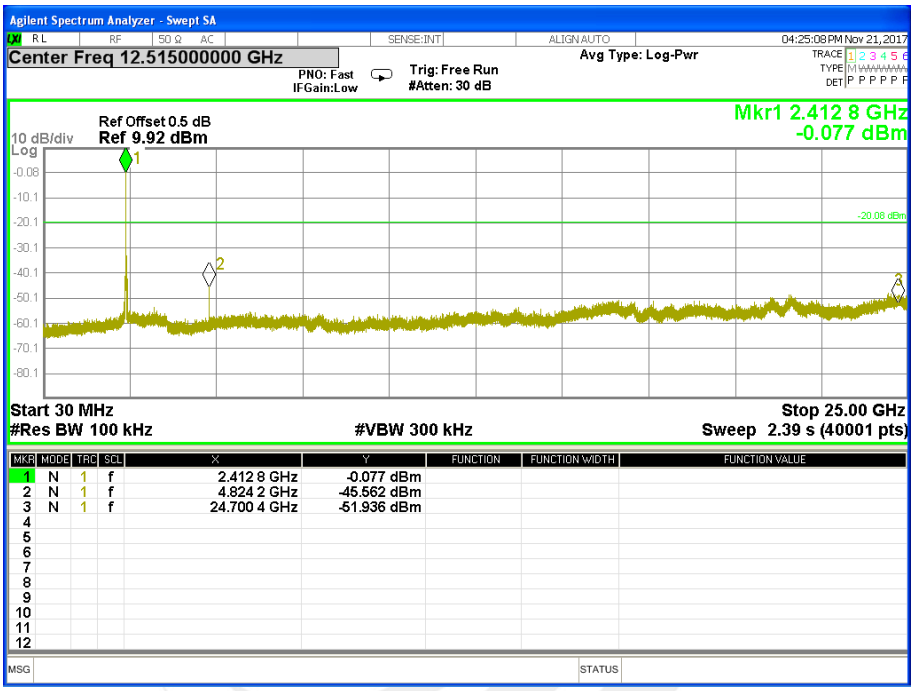
4.5 EUT OPERATION CONDITIONS

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.

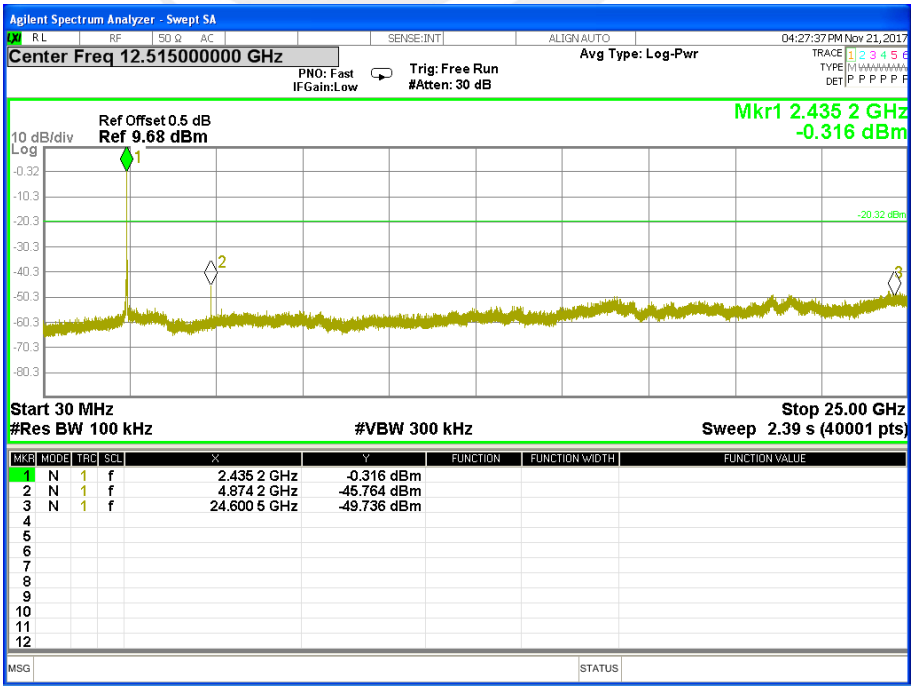
4.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX b Mode /CH01, CH06, CH11		

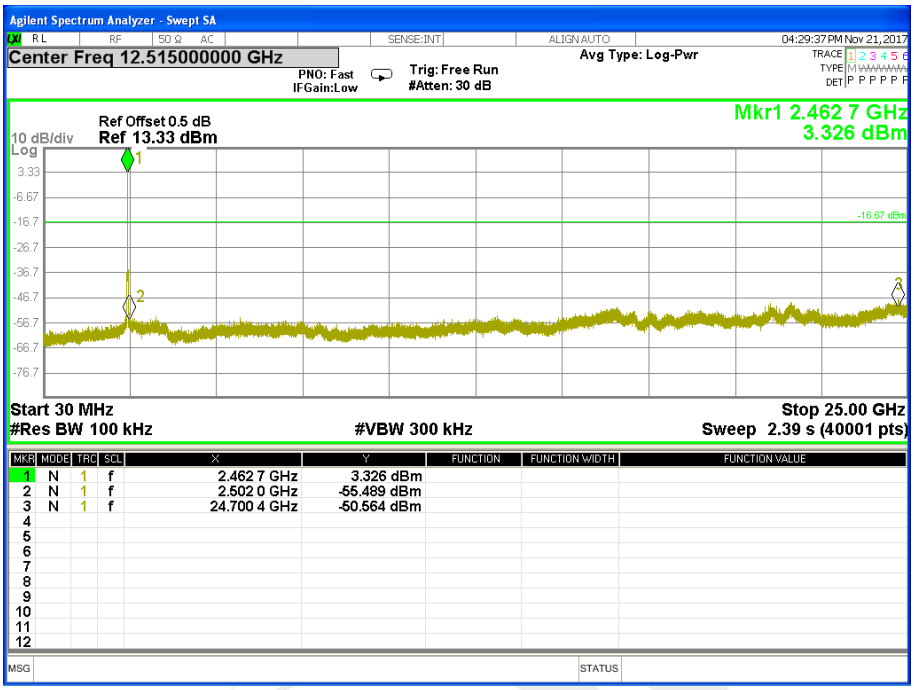
CH 01



CH 06

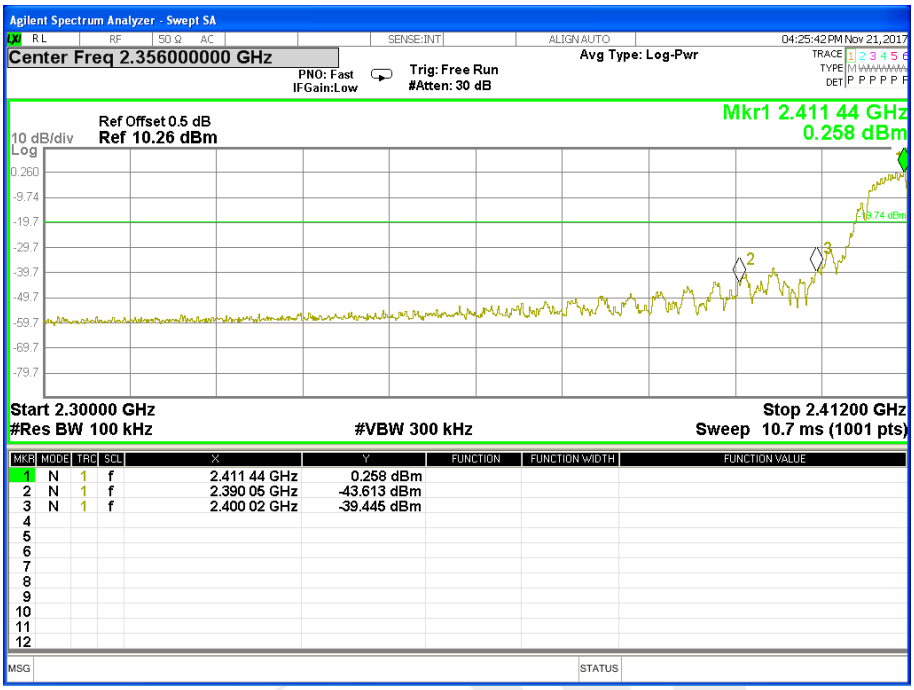


CH 11

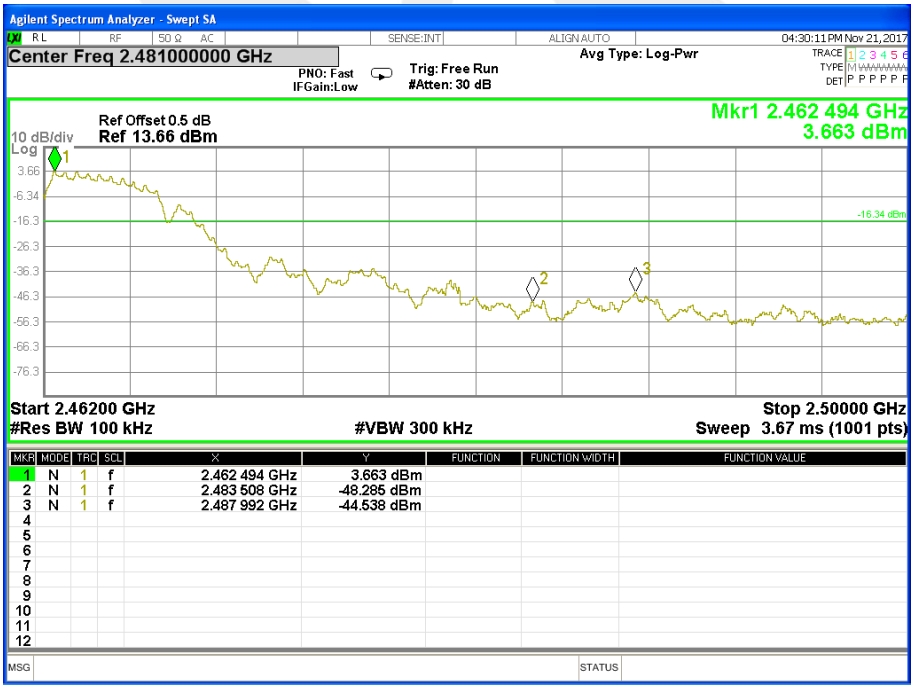

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
04:29:37 PM Nov 21,2017
Mkr1 2.462 7 GHz
3.326 dBm
Ref Offset 0.5 dB
10 dB/div
Ref 13.33 dBm
Log
-16.67 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.39 s (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.462 7 GHz 3.326 dBm
2 N 1 f 2.502 0 GHz -55.489 dBm
3 N 1 f 24.700 4 GHz -50.564 dBm
MSG
STATUS

Band edge

CH 01

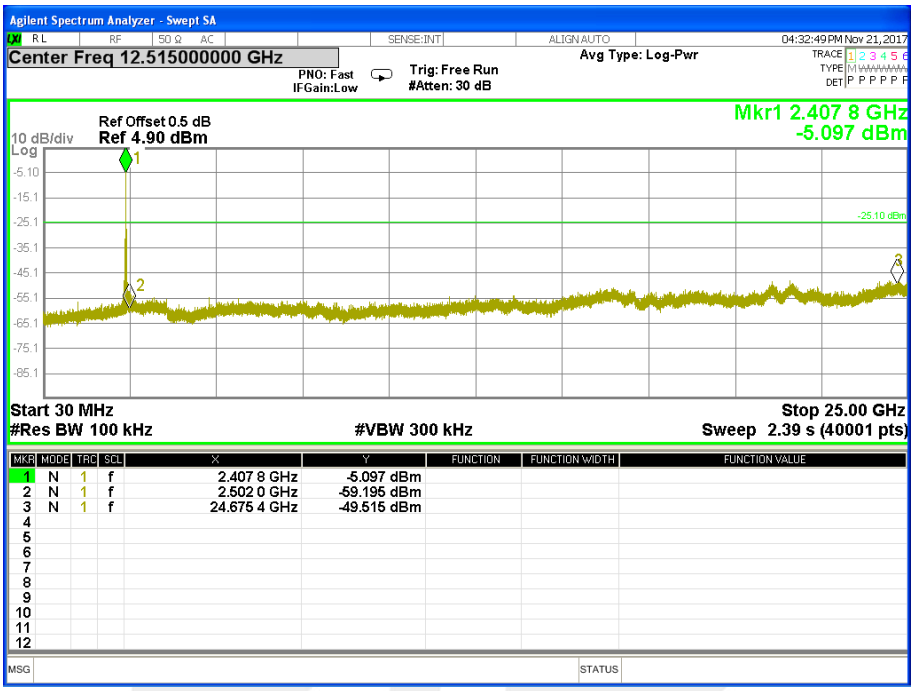


CH 11

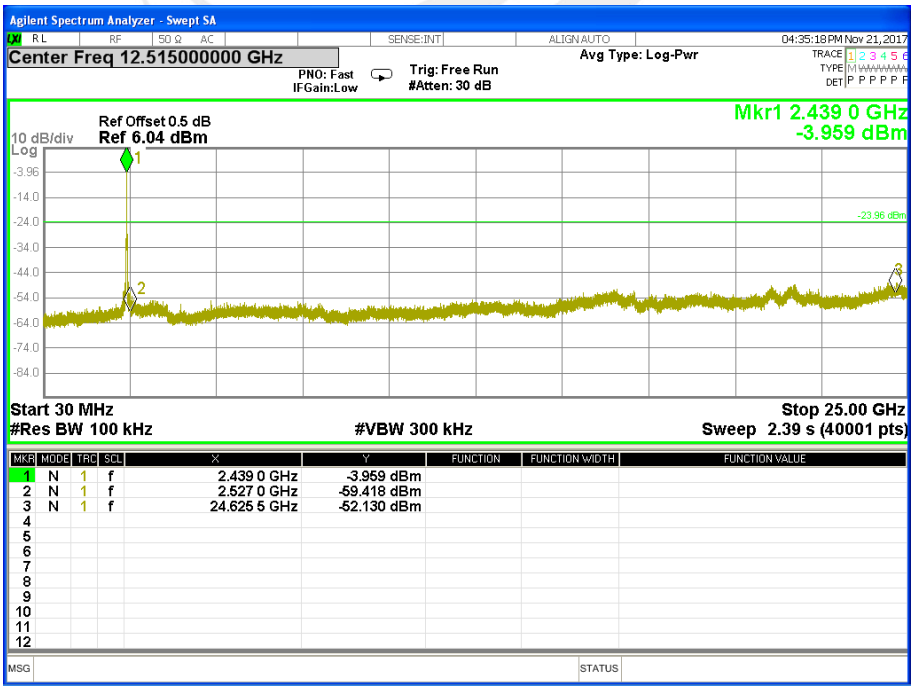


Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX g Mode /CH01, CH06, CH11		

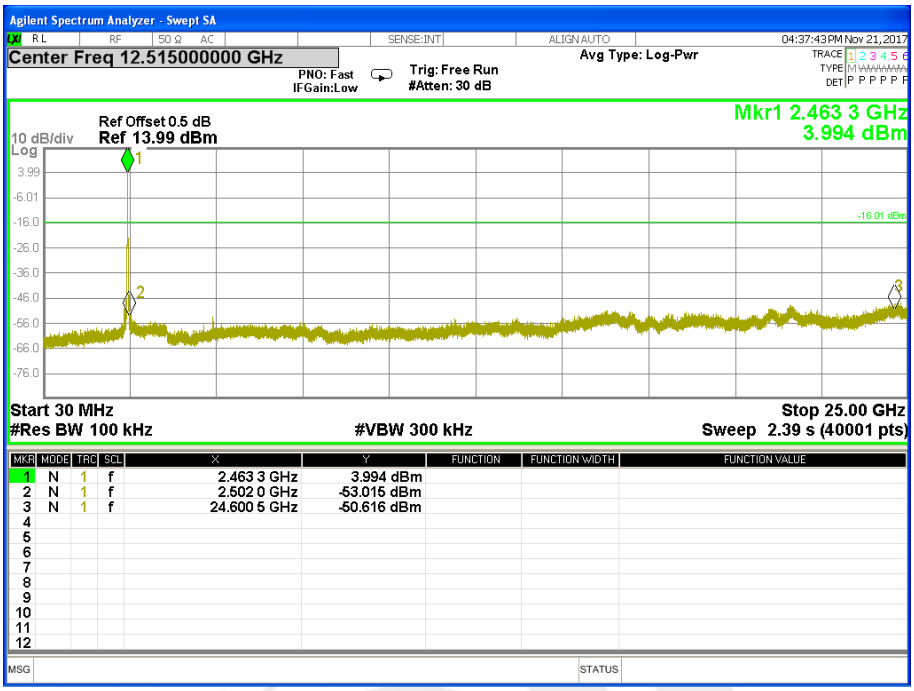
CH 01



CH06

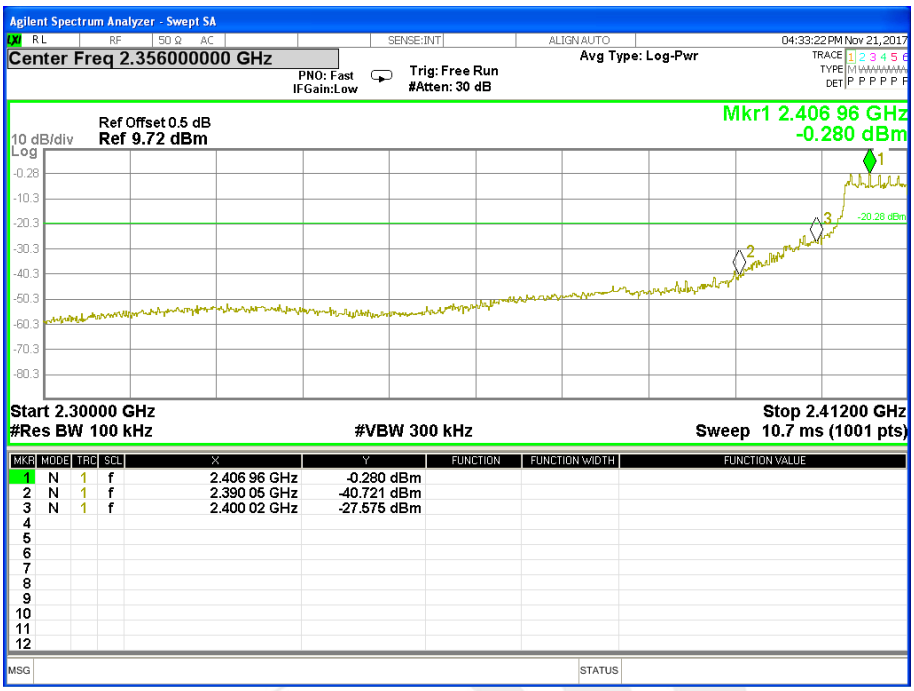


CH 11

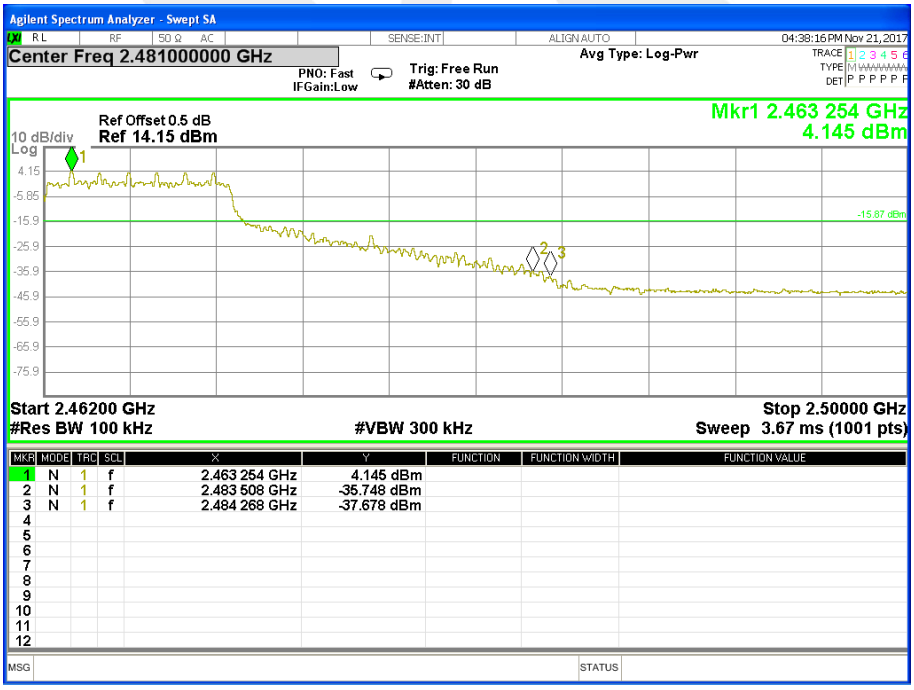

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
04:37:43 PM Nov 21, 2017
Ref Offset 0.5 dB
10 dB/div
Ref 13.99 dBm
Log
Mkr1 2.463 3 GHz
3.994 dBm
-16.01 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.39 s (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.463 3 GHz 3.994 dBm
2 N 1 f 2.502 0 GHz -53.015 dBm
3 N 1 f 24.600 5 GHz -50.616 dBm
MSG
STATUS

Band edge

CH 01

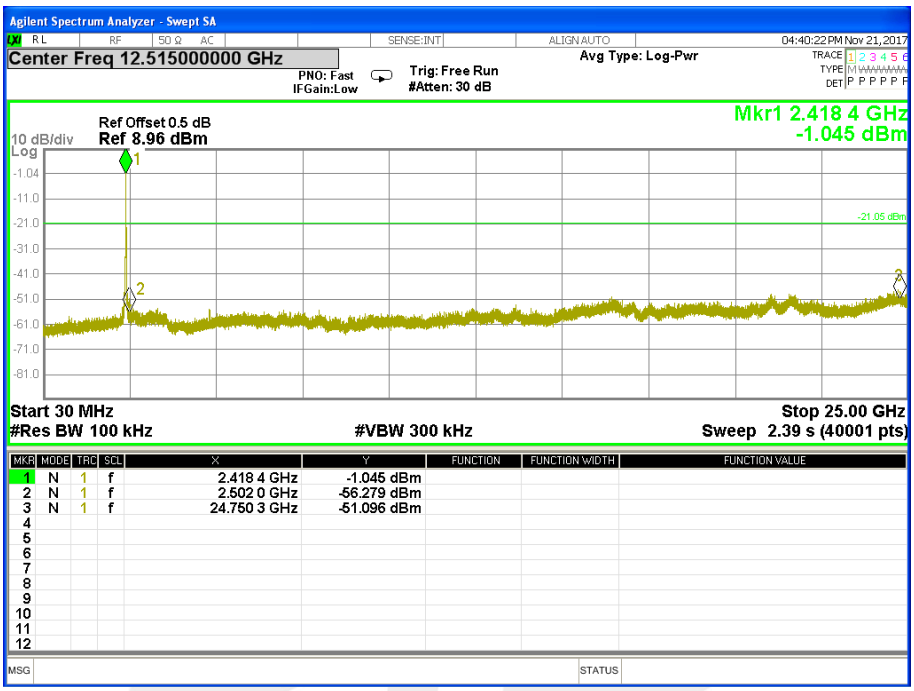


CH11

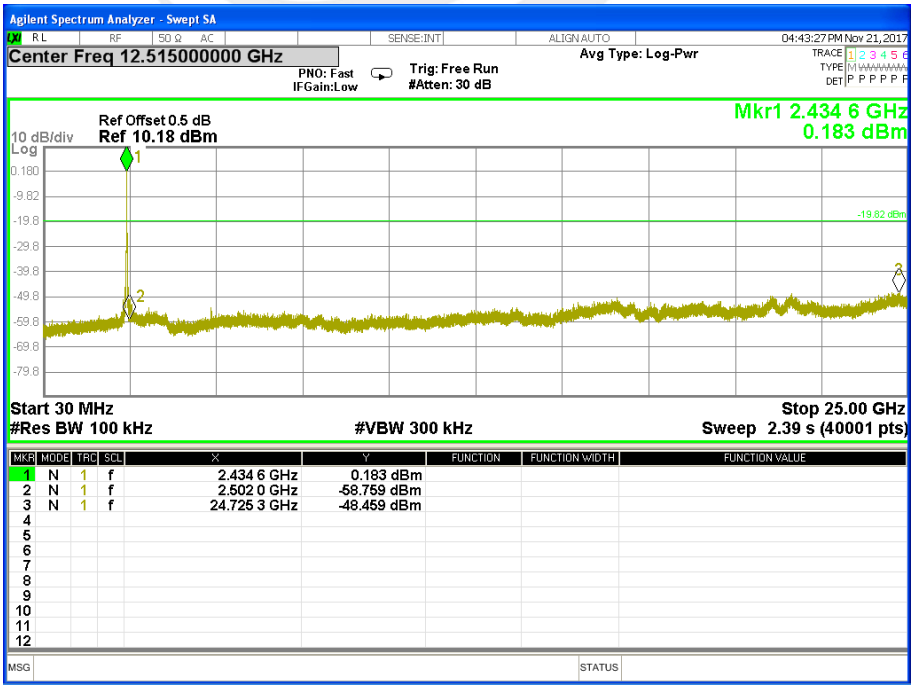


Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

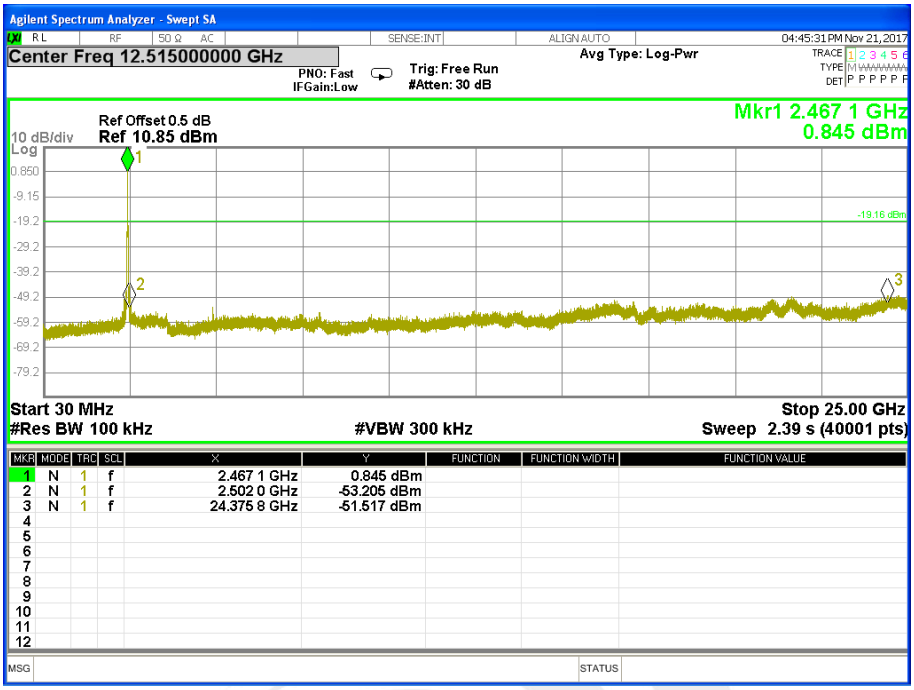
CH 01



CH 06

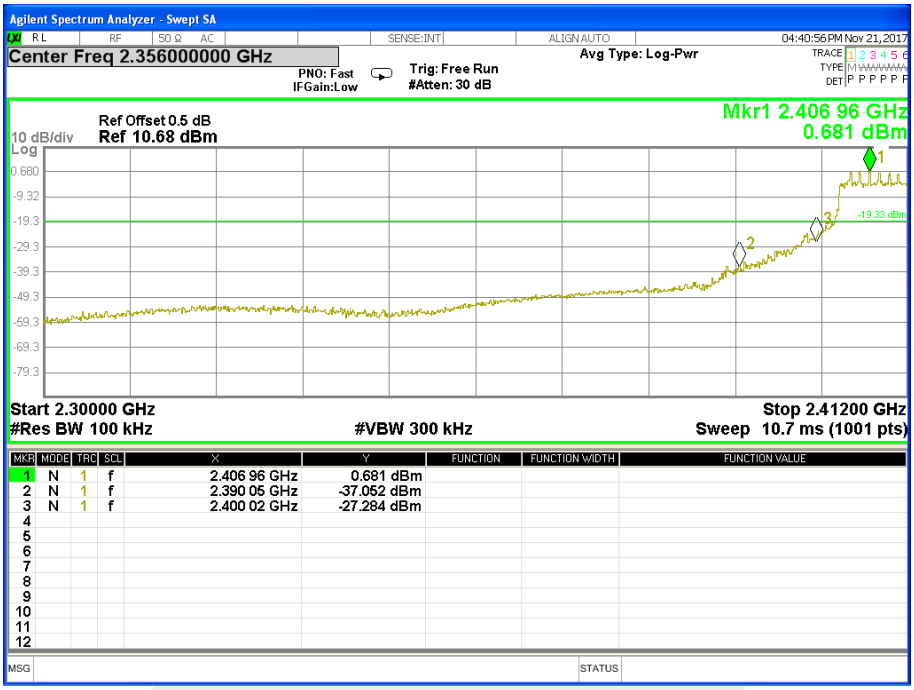


CH 11

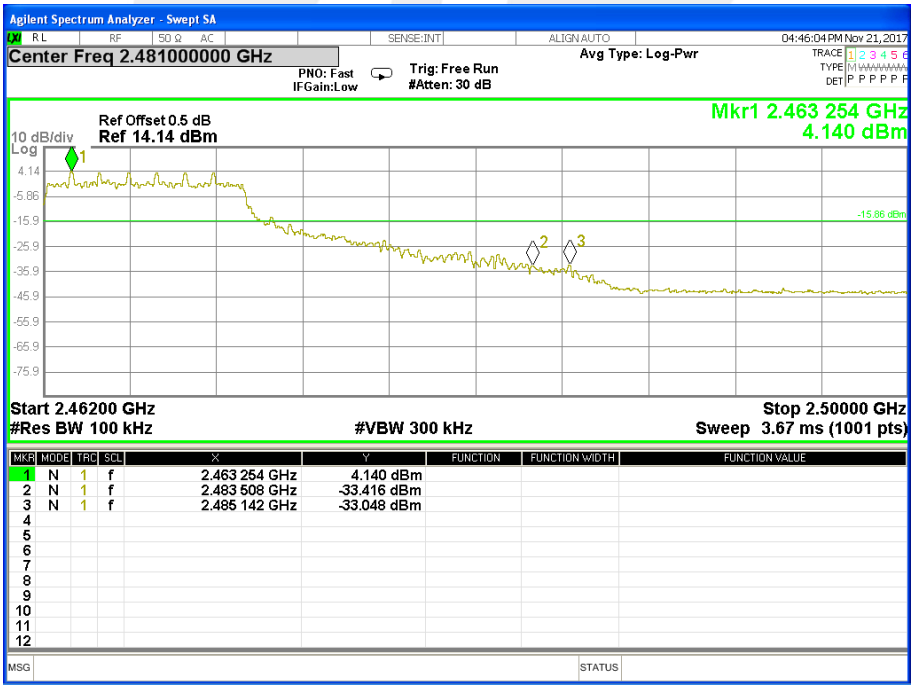

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
04:45:31 PM Nov 21, 2017
Ref Offset 0.5 dB
10 dB/div
Ref 10.85 dBm
Mkr1 2.467 1 GHz
0.845 dBm
-19.16 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.39 s (40001 pts)
1 N 1 f 2.467 1 GHz 0.845 dBm
2 N 1 f 2.502 0 GHz -53.205 dBm
3 N 1 f 24.375 8 GHz -51.517 dBm

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 ≥ 3KHz)	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 kHz ≥ RBW ≥ 3 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.
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

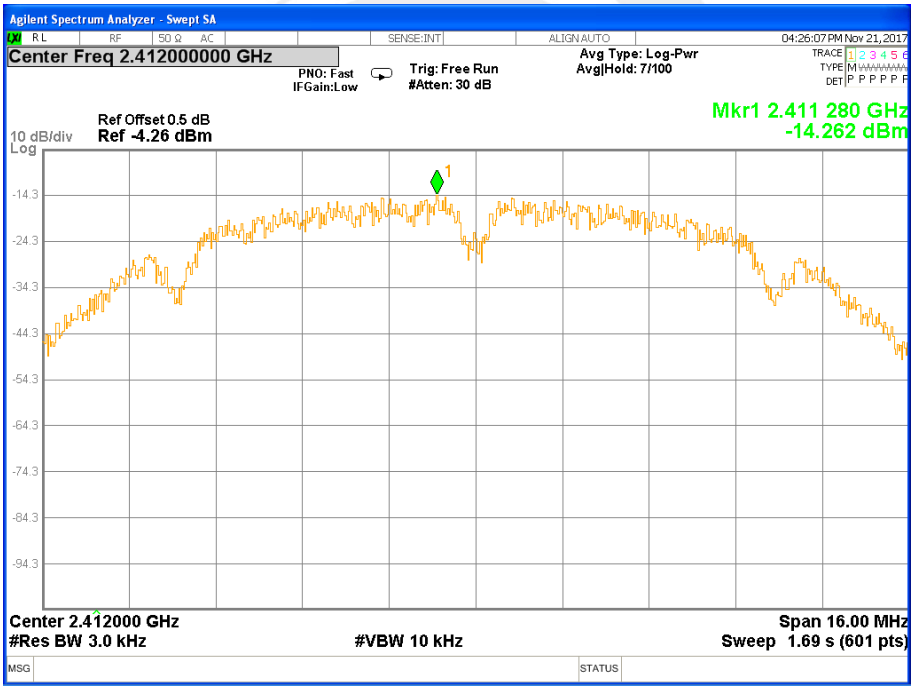
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

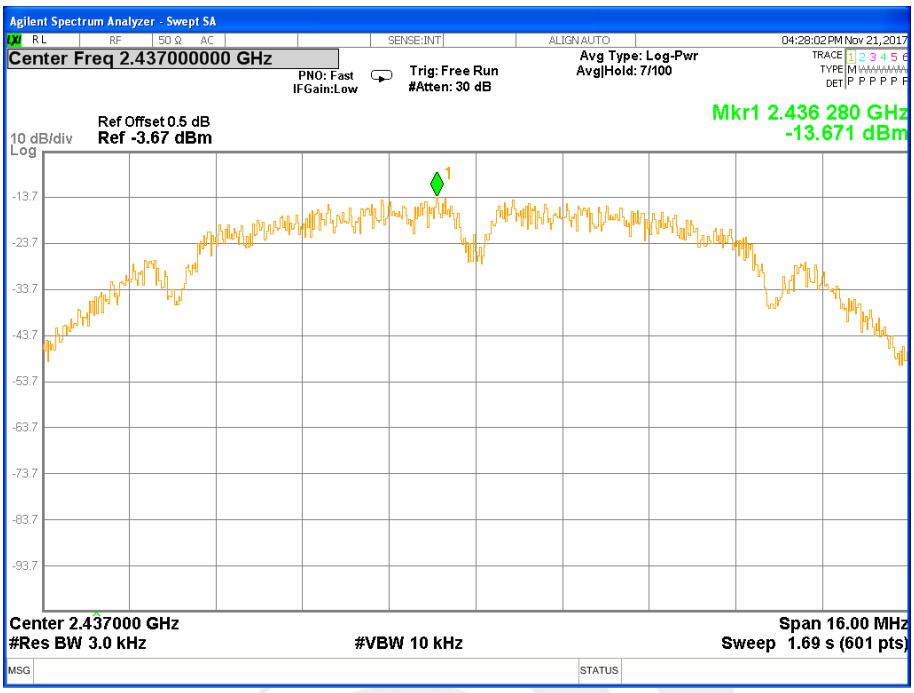
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-14.262	≤8	PASS
2437 MHz	-13.671	≤8	PASS
2462 MHz	-10.822	≤8	PASS

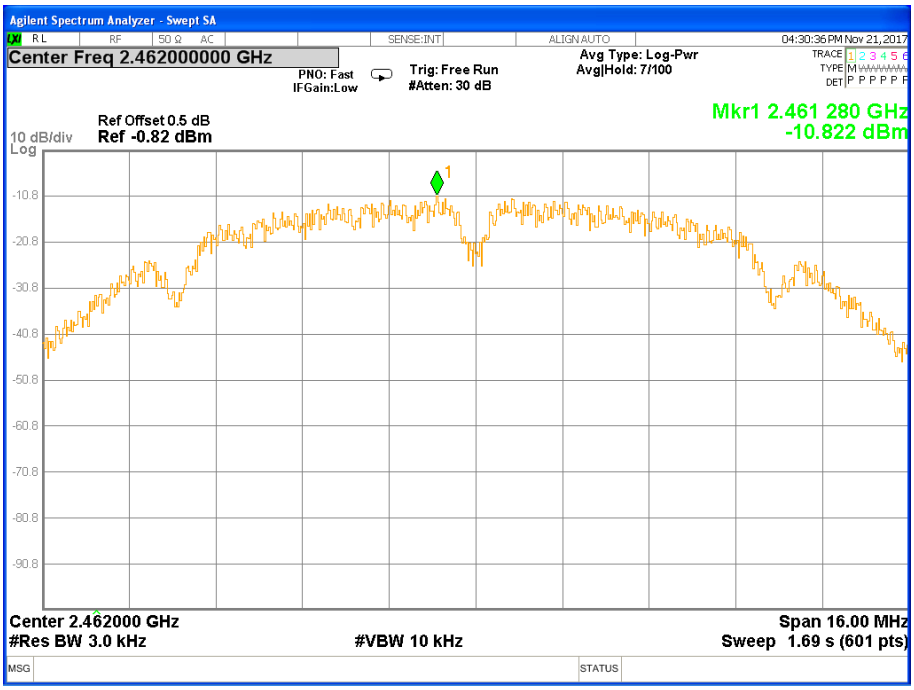
TX CH01



TX CH06



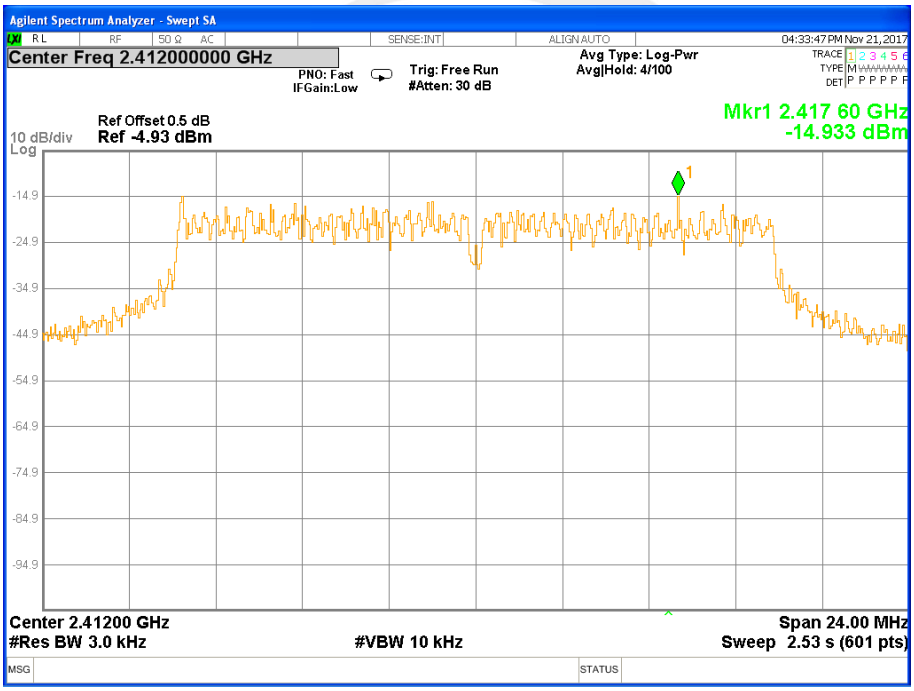
TX CH11



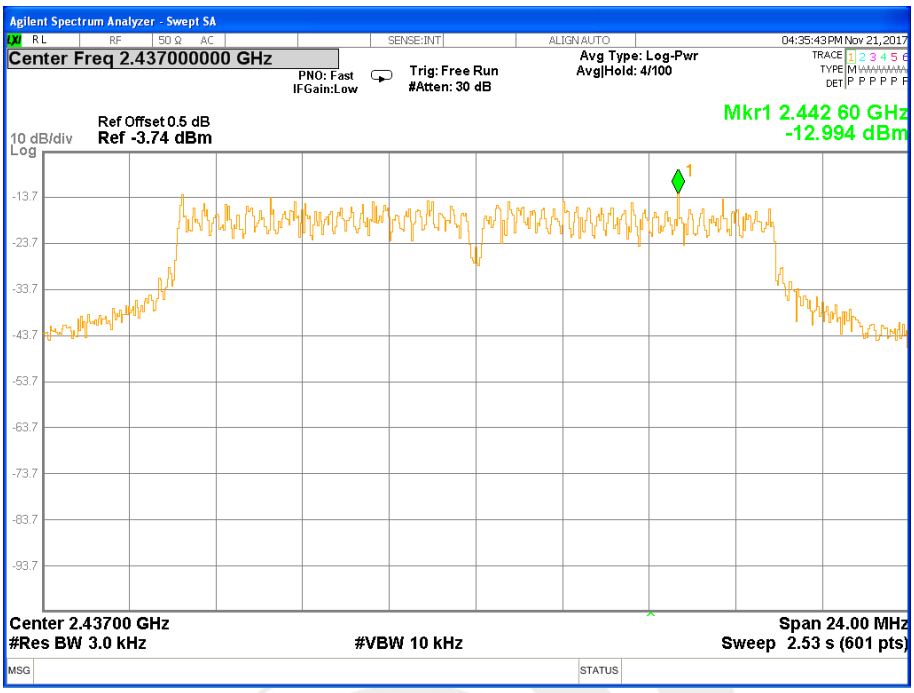
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-14.933	≤8	PASS
2437 MHz	-12.994	≤8	PASS
2462 MHz	-11.029	≤8	PASS

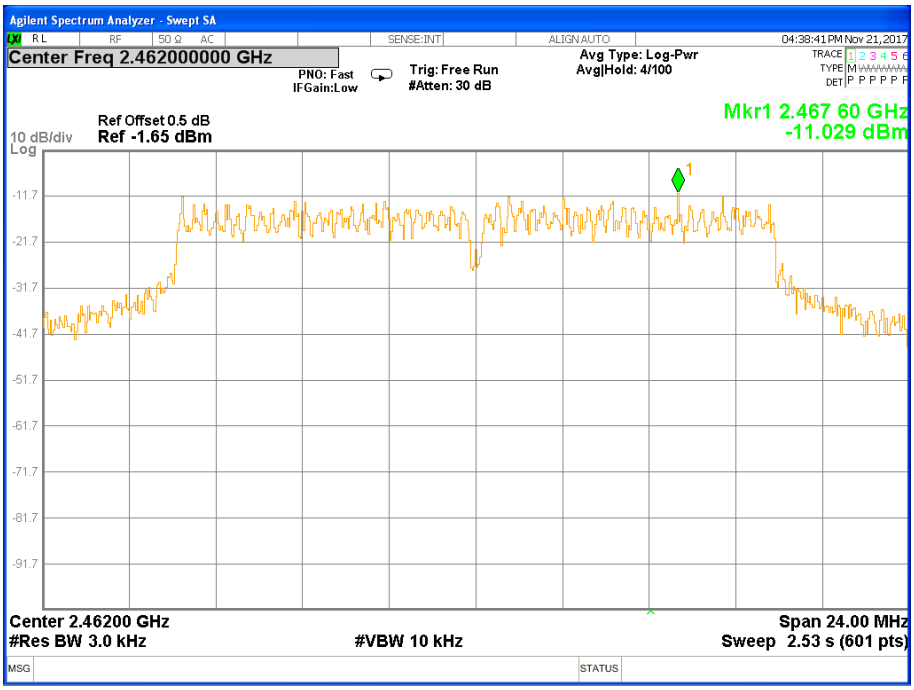
TX CH01



TX CH06



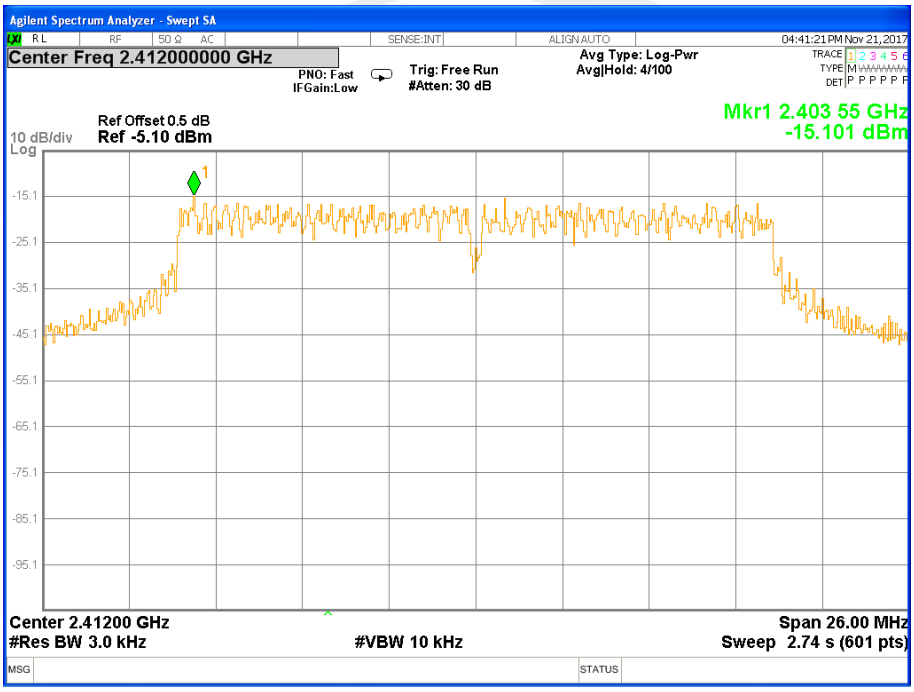
TX CH11



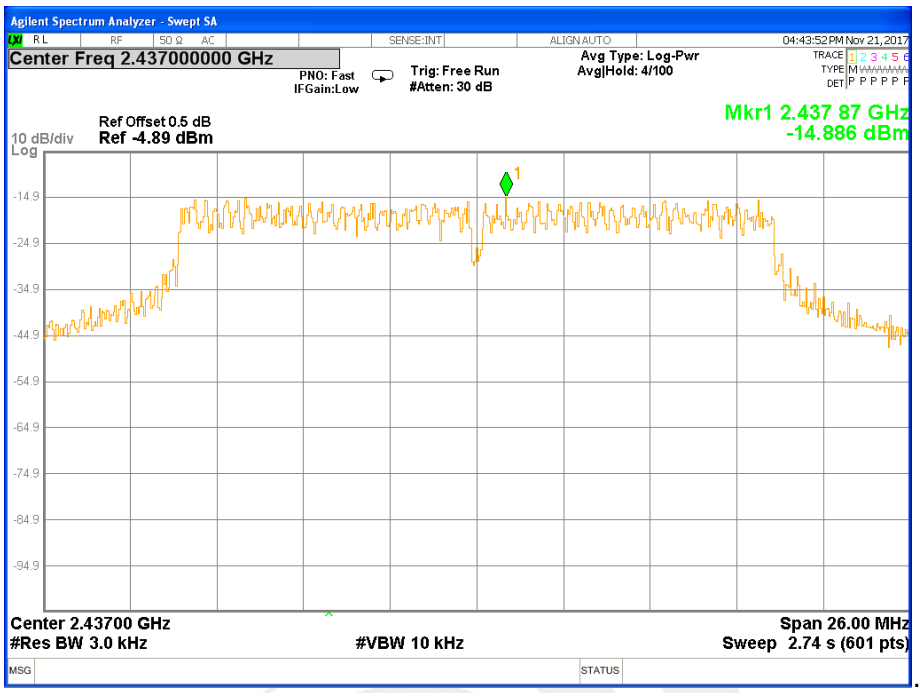
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-15.101	≤8	PASS
2437 MHz	-14.886	≤8	PASS
2462 MHz	-12.205	≤8	PASS

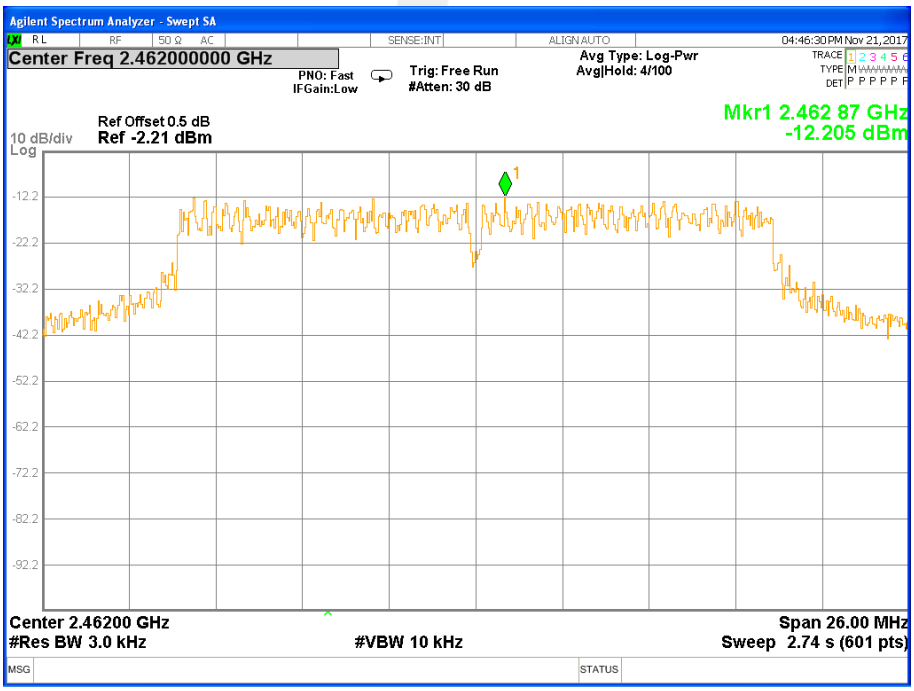
TX CH01



TX CH06



TX CH11



6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

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

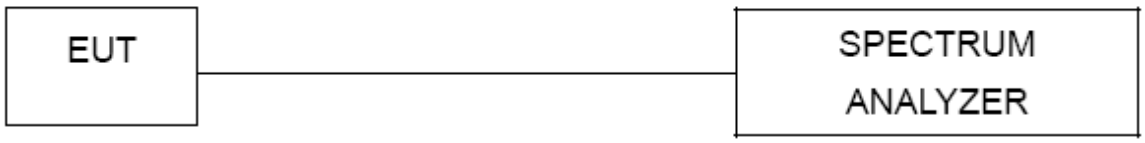
6.2 TEST PROCEDURE

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≥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.

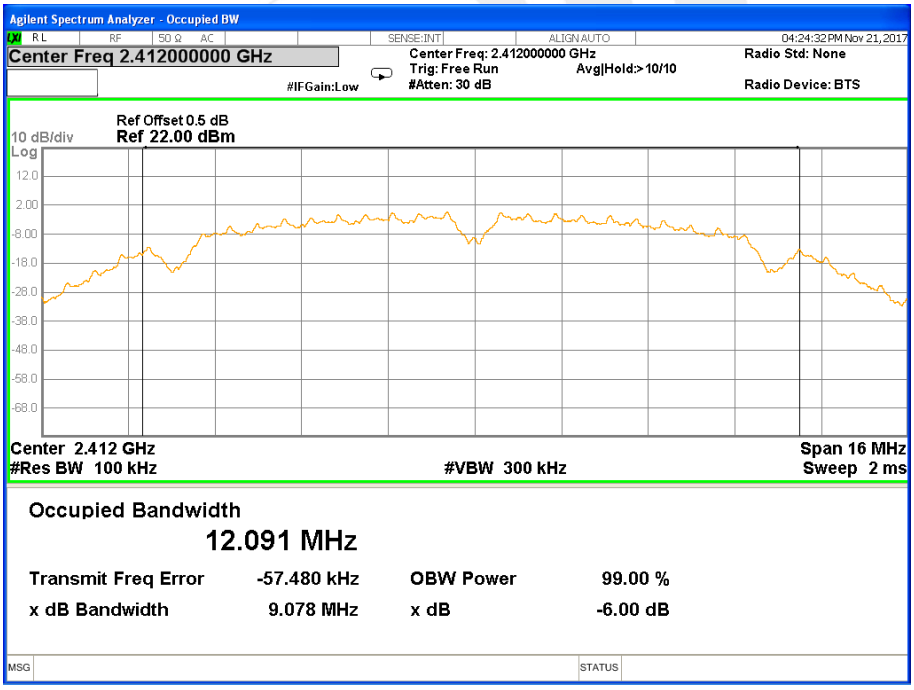
6.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX b Mode /CH01, CH06, CH11		

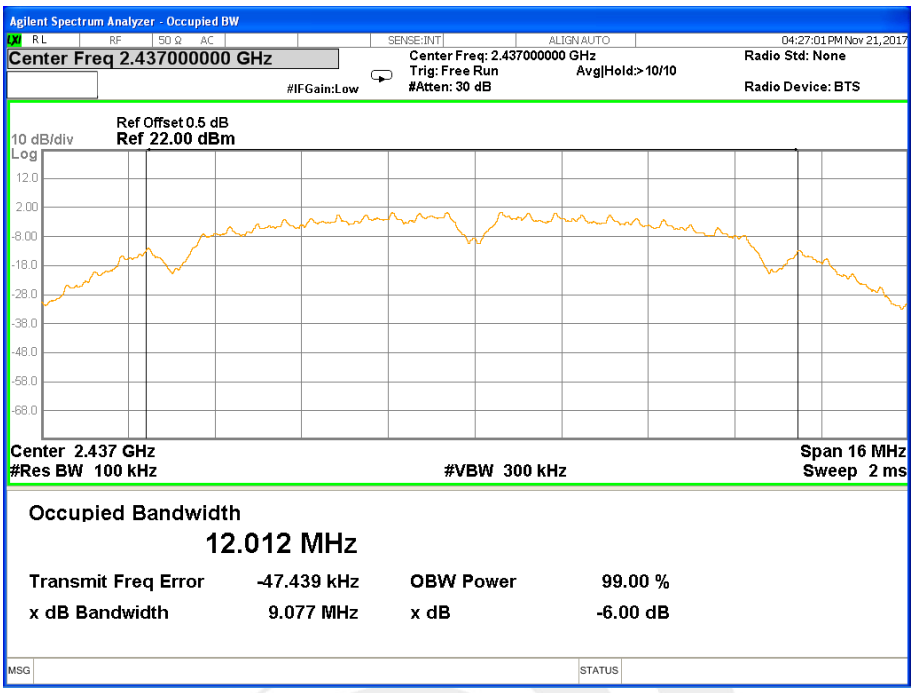
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	9.08	≥500KHz	PASS
2437 MHz	9.08	≥500KHz	PASS
2462 MHz	9.06	≥500KHz	PASS

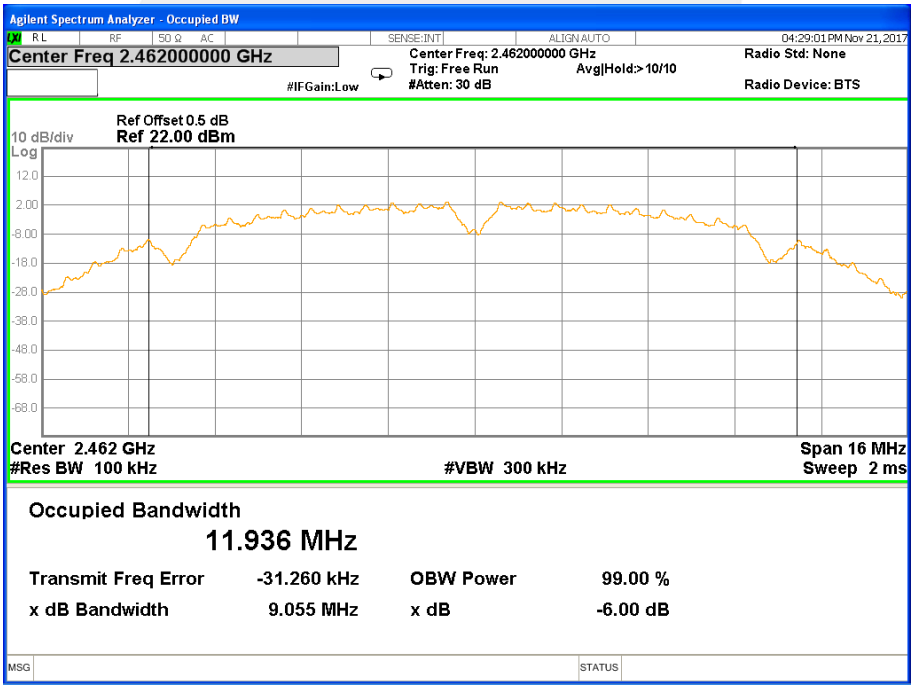
TX CH 01



TX CH 06



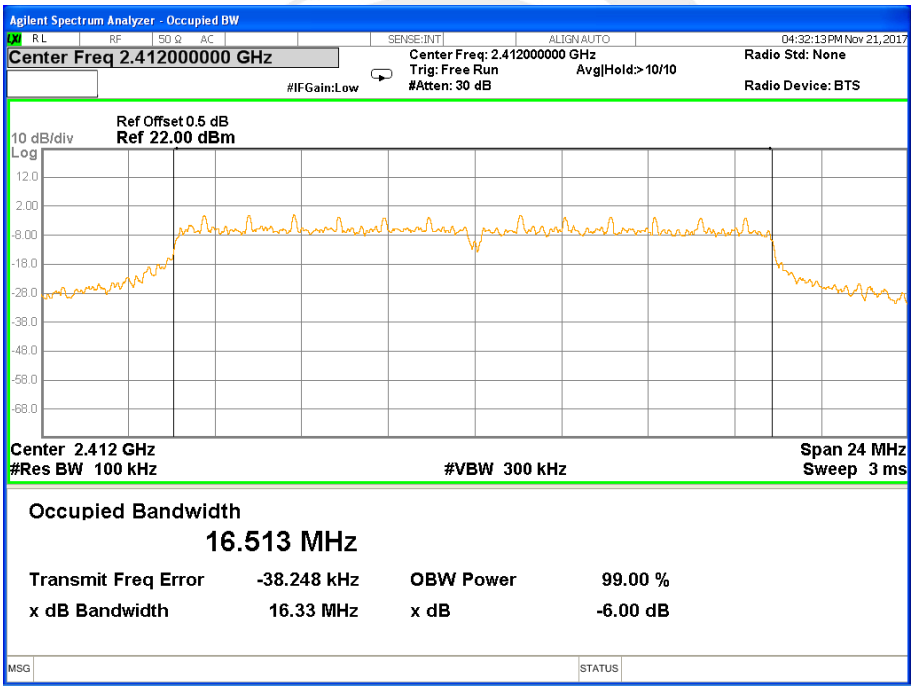
TX CH 11



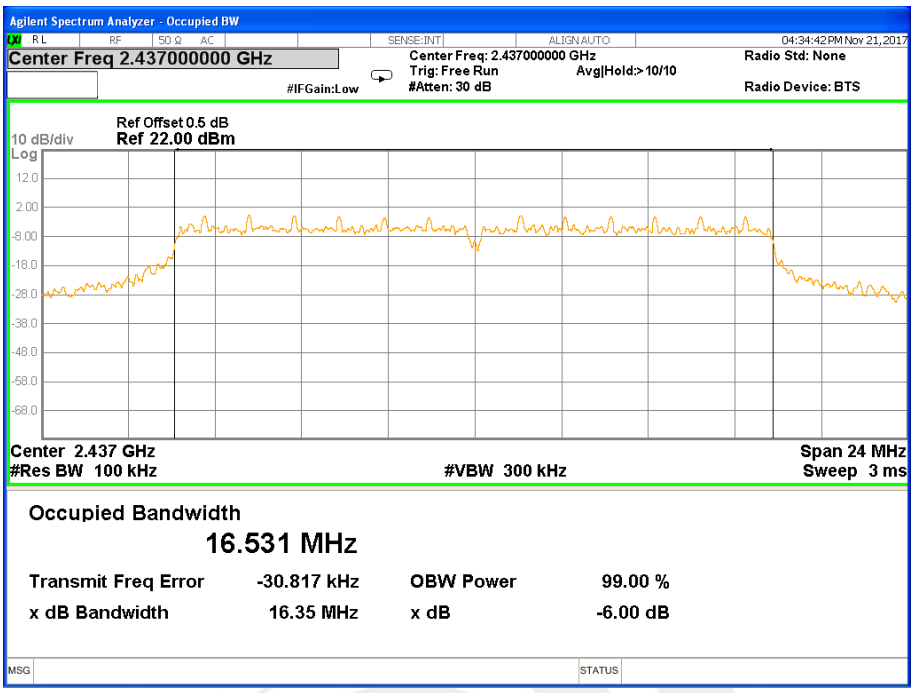
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.33	≥500KHz	PASS
2437 MHz	16.35	≥500KHz	PASS
2462 MHz	16.34	≥500KHz	PASS

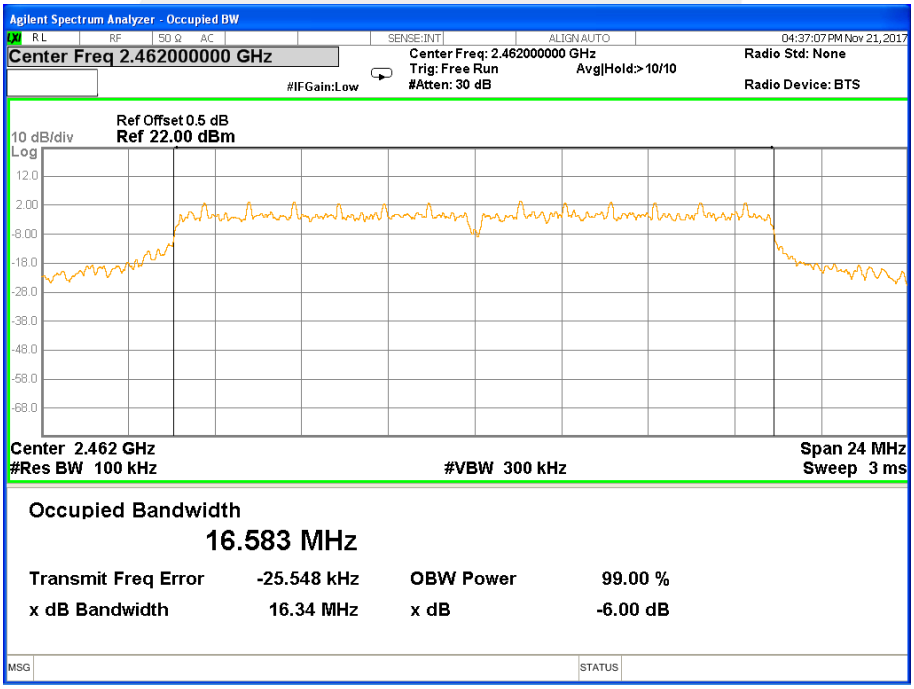
TX CH 01



TX CH 06



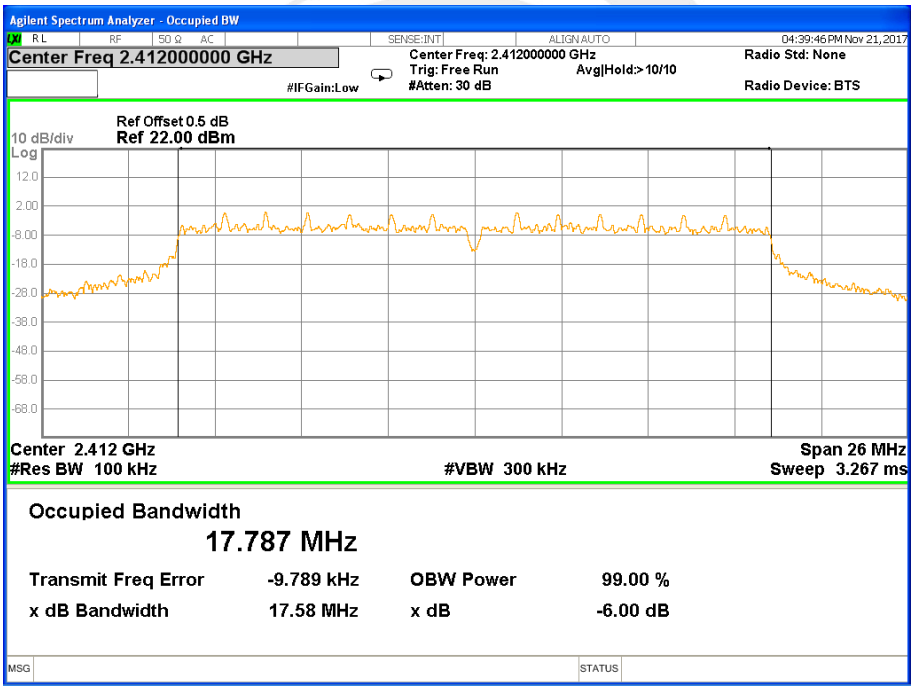
TX CH 11



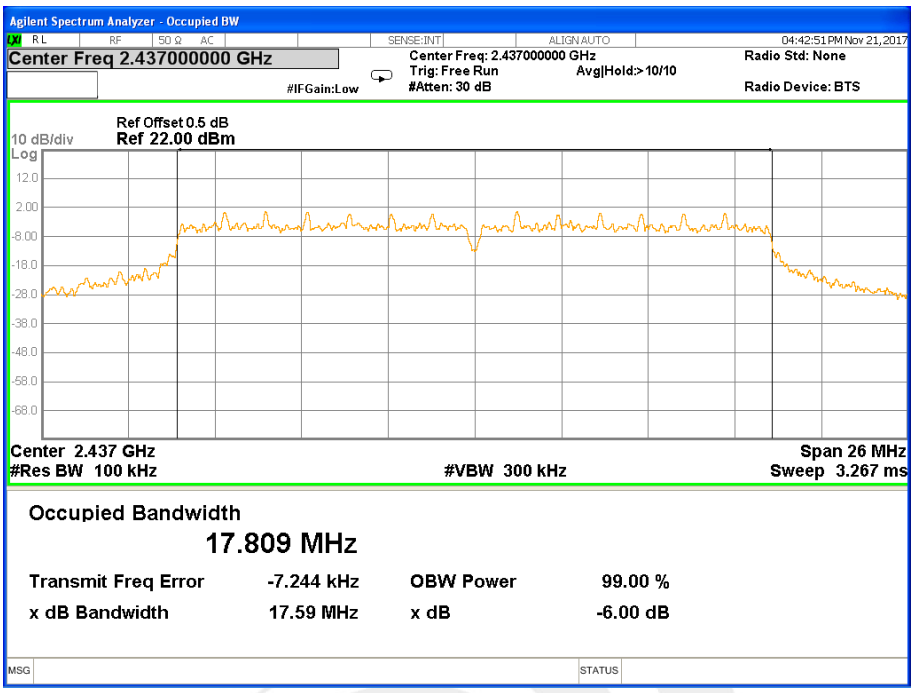
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.58	≥500KHz	PASS
2437 MHz	17.59	≥500KHz	PASS
2462 MHz	17.59	≥500KHz	PASS

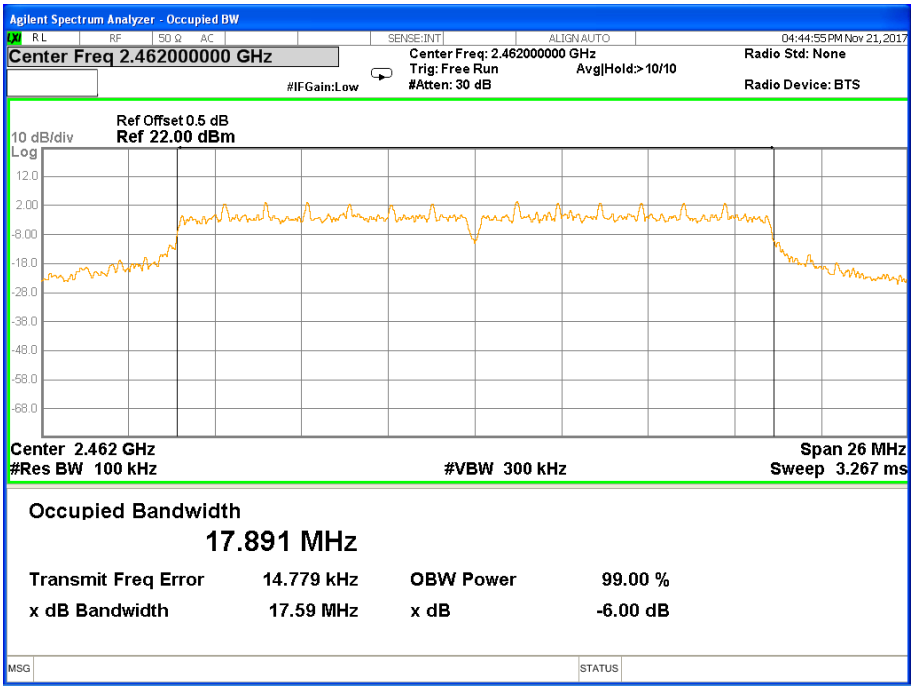
TX CH 01



TX CH 06



TX CH 11



7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,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

a. The EUT was directly connected to the Power Meter

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 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V

TX 802.11b Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	9.23	8.21	30
CH06	2437	9.28	8.26	30
CH11	2462	9.35	8.32	30

TX 802.11g Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	8.23	7.21	30
CH06	2437	8.18	7.16	30
CH11	2462	8.25	7.23	30

TX 802.11n20 Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	8.19	6.18	30
CH06	2437	8.12	6.10	30
CH11	2462	8.21	6.19	30

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

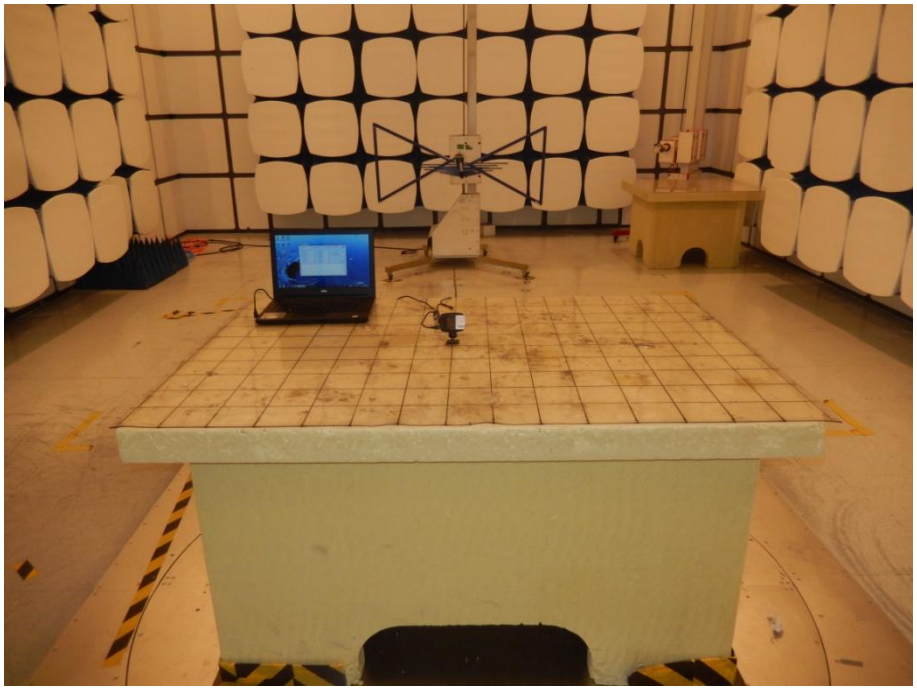
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

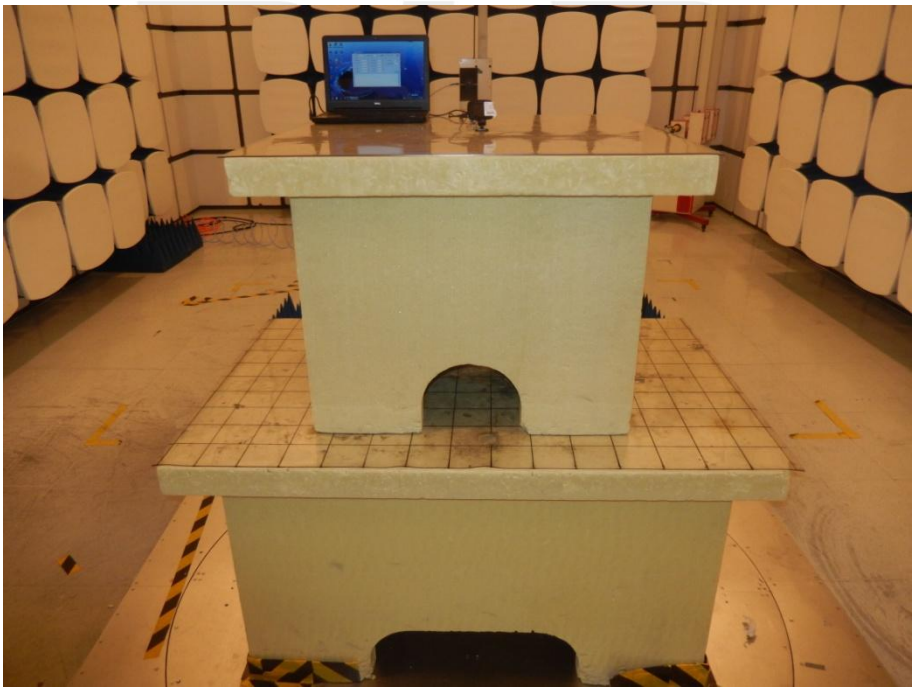
8.2 EUT ANTENNA

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※※※※※