



RADIO TEST REPORT

Report No: STS1605121F01

Issued for

Shenzhen Kingsun Enterprises Co.,Ltd.

25/F,CEC information Buiding,Xinwen Rd,ShenZhen
Guangdong,P.R.China

Product Name:	WIFI MOTION SENSOR
Brand Name:	N/A
Model Name:	MA-1065-D
Series Model:	N/A
FCC ID:	2AAPKMA-1065-D
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name: Shenzhen Kingsun Enterprises Co.,Ltd.
Address: 25/F,CEC information Buiding,Xinwen Rd,ShenZhen
Guangdong,P.R.China
Manufacture's Name: Shenzhen Kingsun Enterprises Co.,Ltd.
Address: 25/F,CEC information Buiding,Xinwen Rd,ShenZhen
Guangdong,P.R.China

Product description

Product name: WIFI MOTION SENSOR
Model and/or type reference ..: MA-1065-D
Series Model: N/A

Standards.....: FCC Part15.247

Test procedure ANSI C63.10-2013 ,ANSI C63.4-2014

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: 17 May. 2016~19 May. 2016

Date of Issue: 19 May. 2016

Test Result: **Pass**

Testing Engineer :

(Jin Ming)

Technical Manager :

(Vita Li)

Authorized Signatory :

(Bovey Yang)

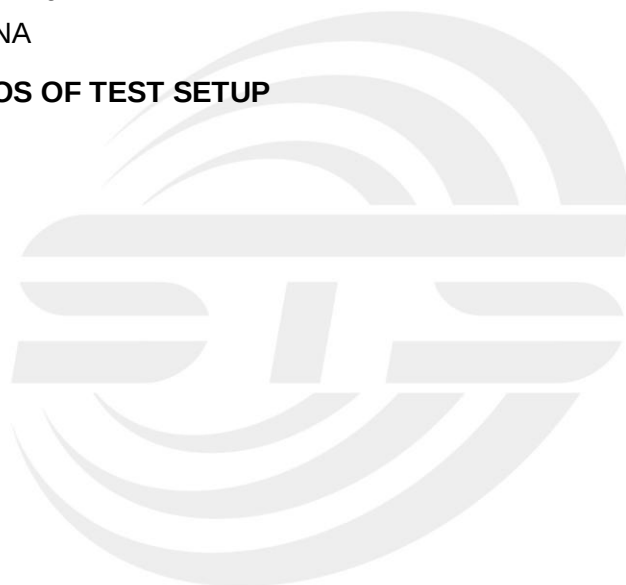




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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	19 May. 2016	STS1605121F01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

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

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(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 ,ANSI C63.4-2014



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	WIFI MOTION SENSOR	
Trade Name	N/A	
Model Name	MA-1065-D	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a WIFI MOTION SENSOR	
	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:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz):300/150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20: 11CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	-1 dBi
	Duty Cycle	>98%
Channel List	Please refer to the Note 2.	
Power rating	DC 5V	
Hardware version number	OK-6935-2(MA-1096-0)FR4 THK=1.2mm 2015.07.29 REV:A00	
Software version number	[PIR]Motion_LM04-C1GPIR1_v0.9.7_1113	
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

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

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	MA-1065-D	PCB Antenna	N/A	-1	N/A





2.2 DESCRIPTION OF TEST MODES

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

Pretest 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) Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table.
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,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%.

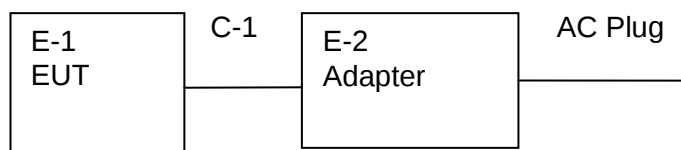
AC Conducted Emission

Test Case	
AC Conducted Emission	Mode10: Keeping WIFI TX

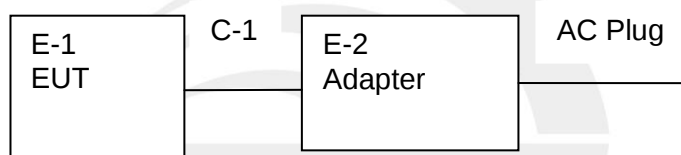


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	WIFI MOTION SENSOR	KATA	MA-1065-D	N/A	EUT
E-2	Adapter	SIMPLE HOME	JOD-S-050050A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB 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
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	2015.06.06	2016.06.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07
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.

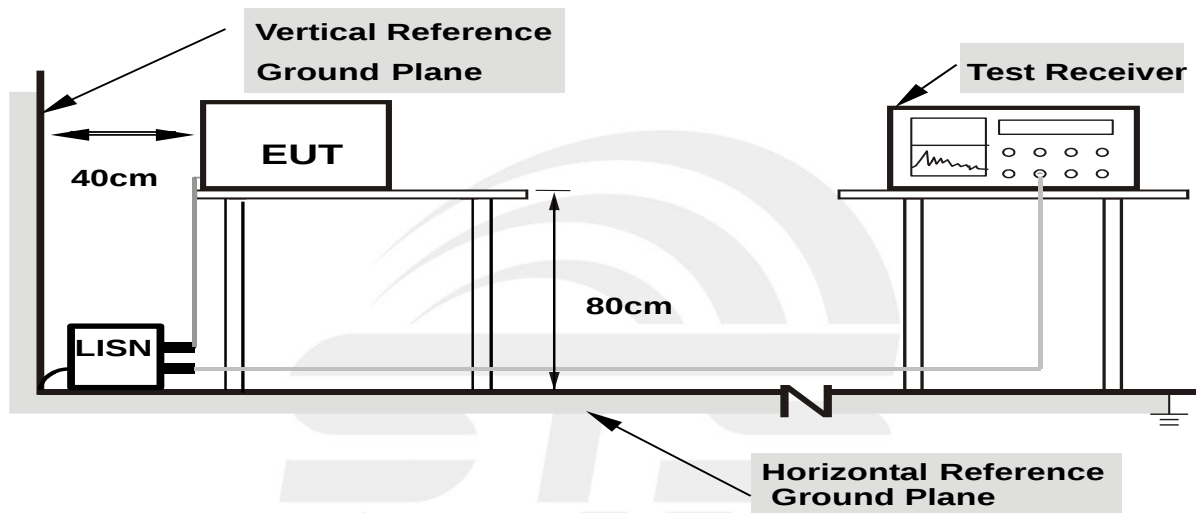
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- 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.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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

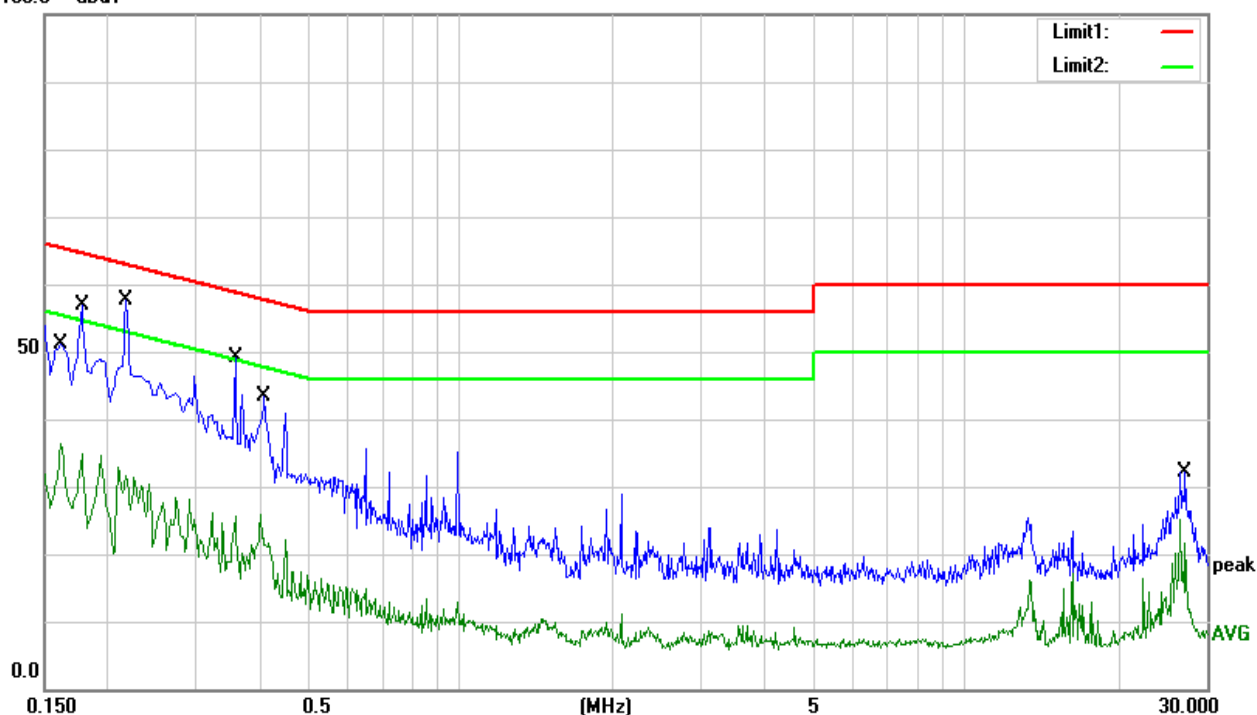
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Mode :	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1620	41.07	10.00	51.07	65.36	-14.29	QP
0.1620	26.45	10.00	36.45	55.36	-18.91	AVG
0.1780	46.79	10.00	56.79	64.58	-7.79	QP
0.1780	24.90	10.00	34.90	54.58	-19.68	AVG
0.2180	47.74	9.98	57.72	62.89	-5.17	QP
0.2180	22.83	9.98	32.81	52.89	-20.08	AVG
0.3580	39.15	10.07	49.22	58.77	-9.55	QP
0.3580	15.58	10.07	25.65	48.77	-23.12	AVG
0.4100	33.11	10.17	43.28	57.65	-14.37	QP
0.4100	15.62	10.17	25.79	47.65	-21.86	AVG
27.1580	21.70	10.53	32.23	60.00	-27.77	QP
27.1580	14.65	10.53	25.18	50.00	-24.82	AVG

Remark:

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

100.0 dBuV





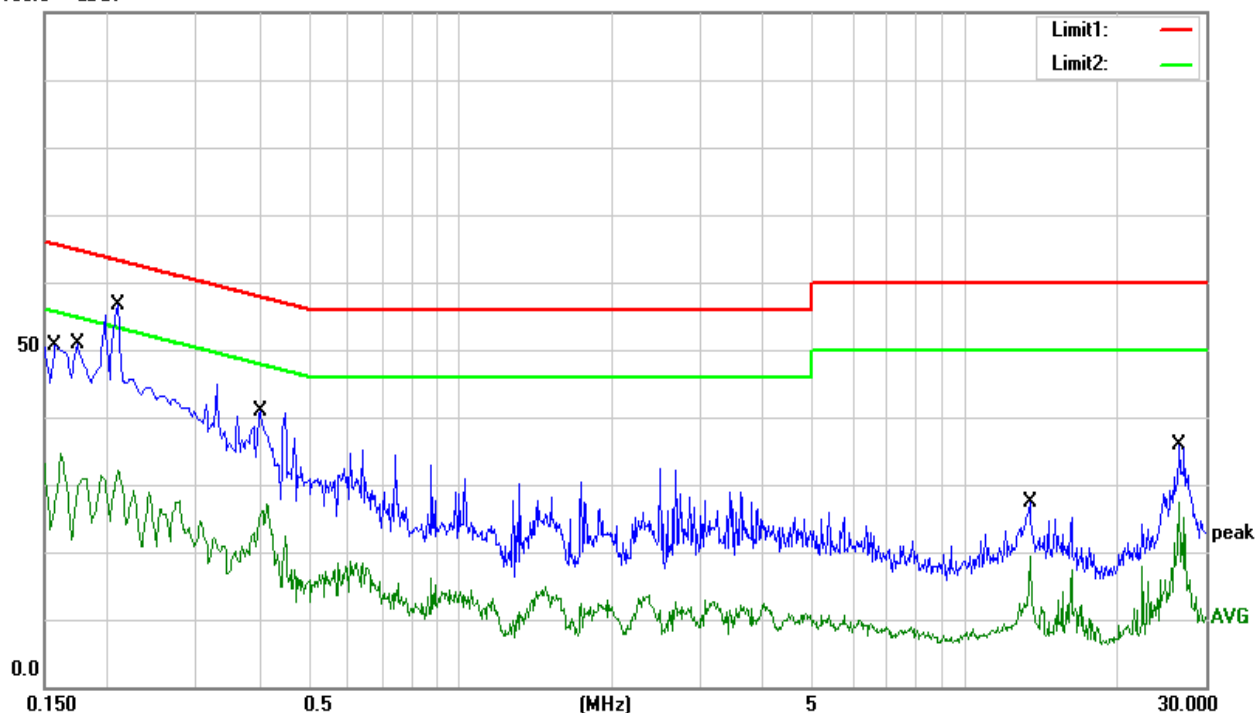
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Mode :	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1580	40.44	10.24	50.68	65.57	-14.89	QP
0.1580	24.39	10.24	34.63	55.57	-20.94	AVG
0.1740	40.86	10.00	50.86	64.77	-13.91	QP
0.1740	20.98	10.00	30.98	54.77	-23.79	AVG
0.2100	46.60	9.99	56.59	63.21	-6.62	QP
0.2100	22.24	9.99	32.23	53.21	-20.98	AVG
0.4020	30.84	10.00	40.84	57.81	-16.97	QP
0.4020	17.07	10.00	27.07	47.81	-20.74	AVG
13.4180	17.08	10.30	27.38	60.00	-32.62	QP
13.4180	9.05	10.30	19.35	50.00	-30.65	AVG
26.6100	25.09	10.71	35.80	60.00	-24.20	QP
26.6100	16.68	10.71	27.39	50.00	-22.61	AVG

Remark:

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

100.0 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 (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)	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 / 1 MHz, AV=1 MHz /10Hz

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 / 1 MHz, AV=1 MHz /10 Hz



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

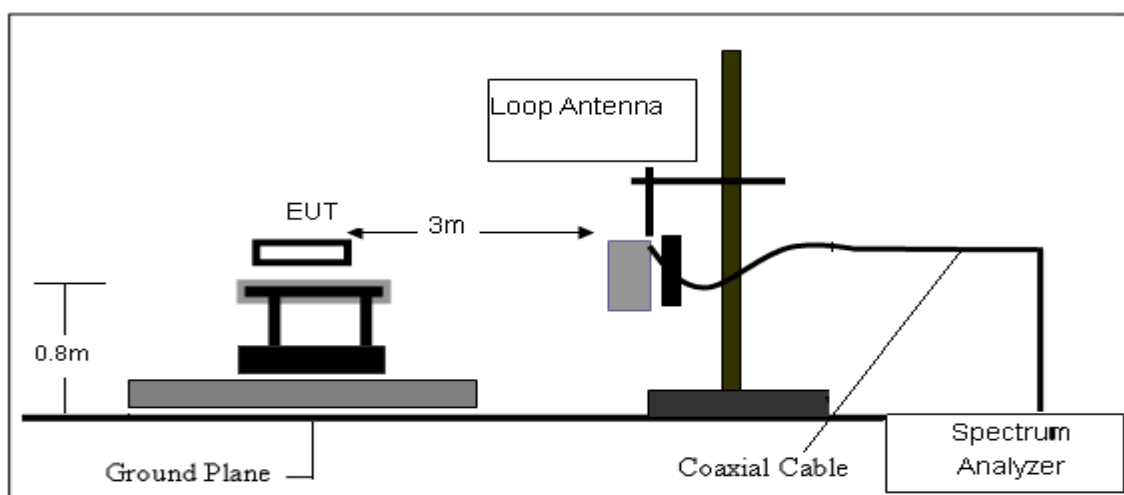
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. 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:

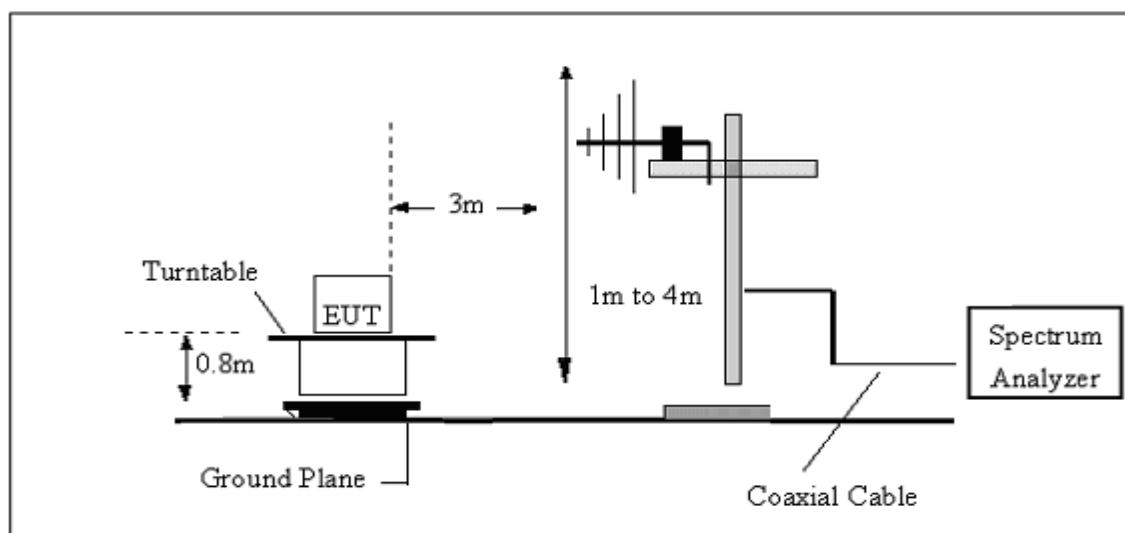
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

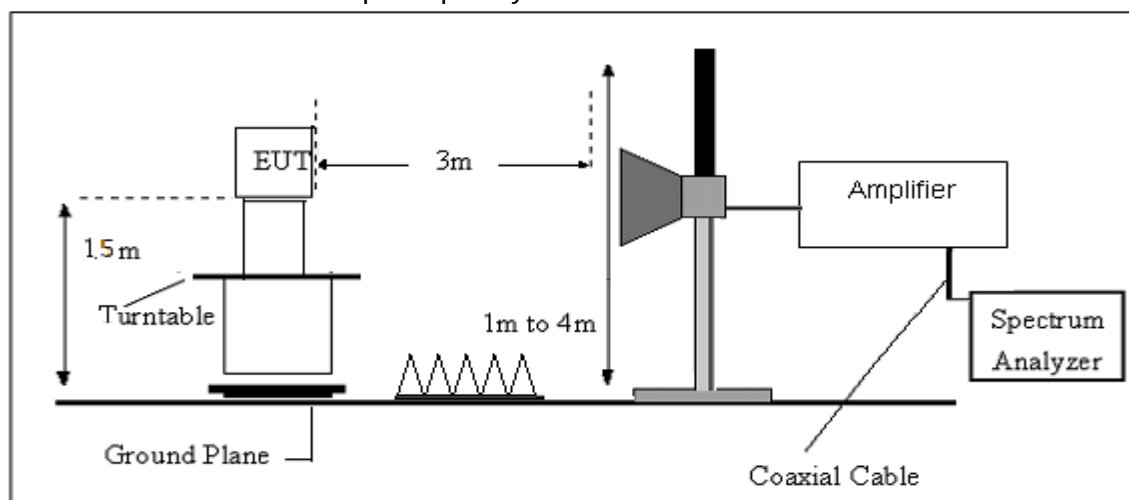
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 Voltage :	DC 5V
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 = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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



(30MHz - 1000MHz)

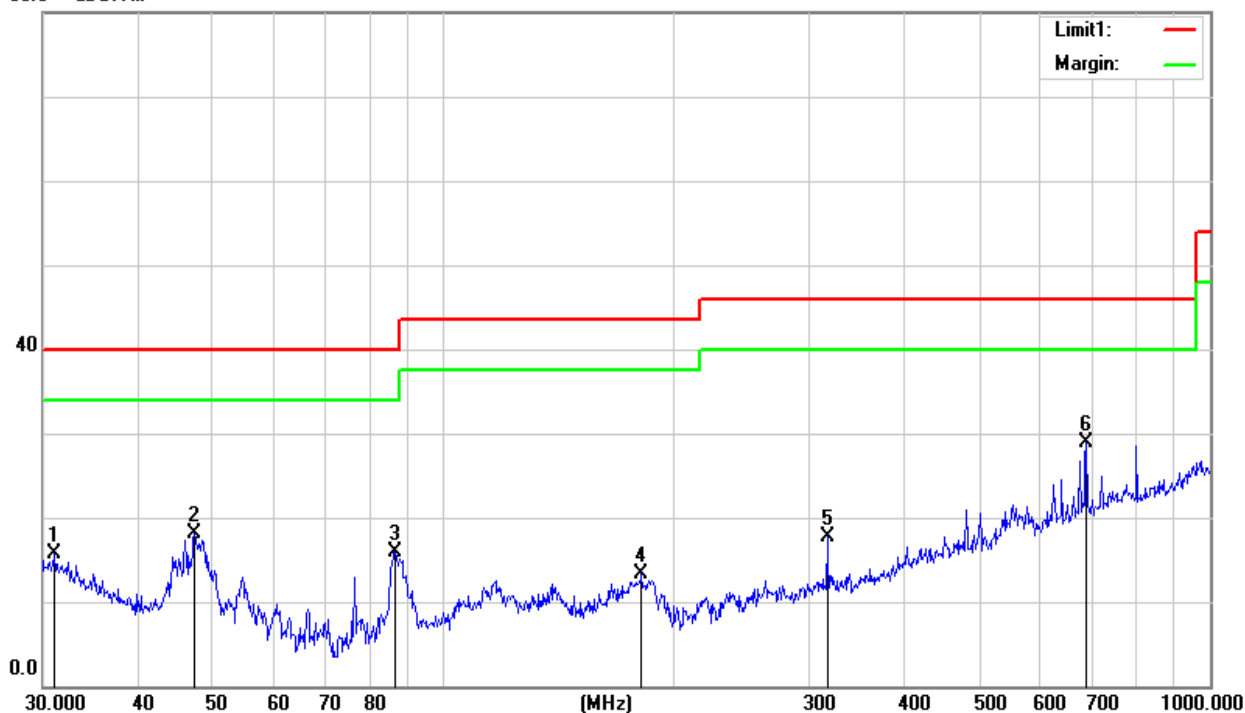
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 1/2/3/4/5/6/7/8/9 (Mode 1-1M worst mode)	Polarization :	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.0706	27.41	-11.74	15.67	40.00	-24.33	QP
47.3255	38.25	-20.10	18.15	40.00	-21.85	QP
86.5030	37.05	-21.07	15.98	40.00	-24.02	QP
181.2834	32.83	-19.55	13.28	43.50	-30.22	QP
316.5890	31.94	-14.28	17.66	46.00	-28.34	QP
689.5644	34.52	-5.57	28.95	46.00	-17.05	QP

Remark:

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

80.0 dBuV/m





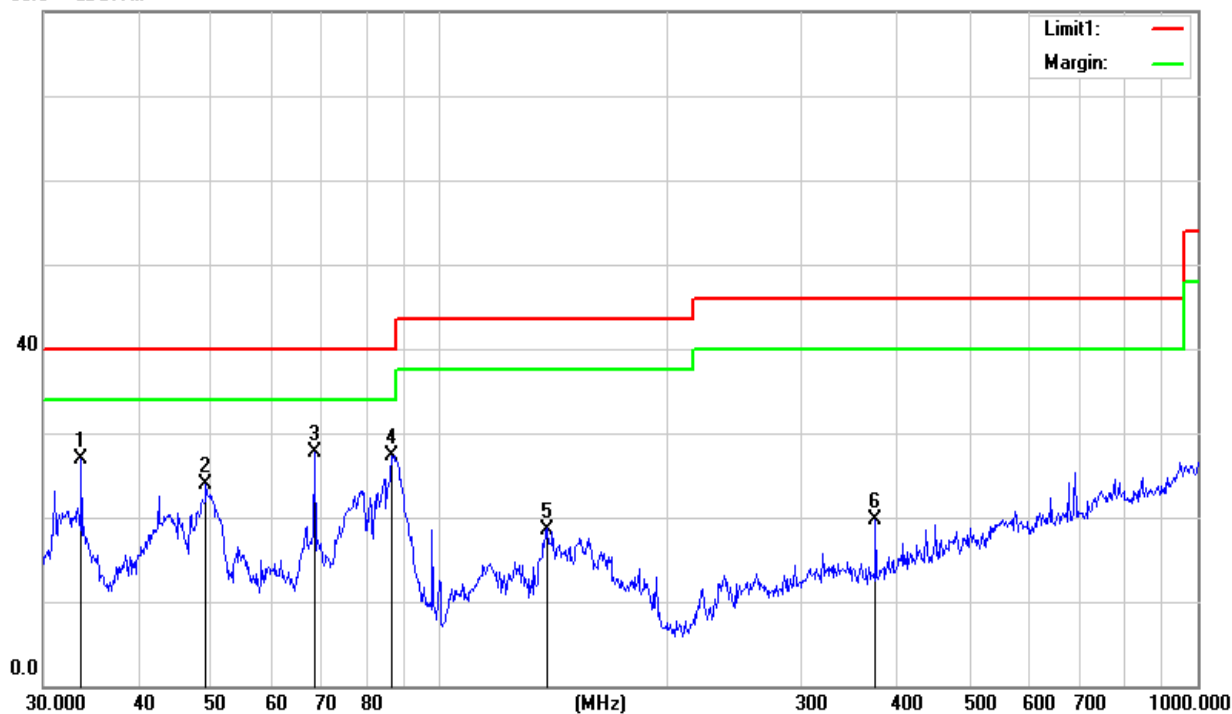
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 1/2/3/4/5/6/7/8/9 (Mode 1-1M worst mode)	Polarization :	Vertical

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
33.6802	40.01	-13.07	26.94	40.00	-13.06	QP
49.1865	44.95	-21.06	23.89	40.00	-16.11	QP
68.3908	51.78	-24.14	27.64	40.00	-12.36	QP
86.5030	48.37	-21.07	27.30	40.00	-12.70	QP
138.3873	36.11	-17.51	18.60	43.50	-24.90	QP
375.9385	32.35	-12.73	19.62	46.00	-26.38	QP

Remark:

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

80.0 dBuV/m





(1000MHz-25GHz)

Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V

802.11b Low Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3265.10	49.97	-9.80	40.17	74.00	-33.83	PK	Vertical
3265.10	39.93	-9.80	30.13	54.00	-23.87	AV	Vertical
3265.06	49.90	-9.80	40.10	74.00	-33.90	PK	Horizontal
3265.06	39.94	-9.80	30.14	54.00	-23.86	AV	Horizontal
3334.74	52.61	-9.75	42.86	74.00	-31.14	PK	Vertical
3334.74	42.74	-9.75	32.99	54.00	-21.01	AV	Vertical
3334.69	52.74	-9.75	42.99	74.00	-31.01	PK	Horizontal
3334.69	42.69	-9.75	32.94	54.00	-21.06	AV	Horizontal
3349.75	52.49	-9.75	42.74	74.00	-31.26	PK	Vertical
3349.75	42.47	-9.75	32.72	54.00	-21.28	AV	Vertical
3349.79	52.49	-9.75	42.74	74.00	-31.26	PK	Horizontal
3349.79	42.51	-9.75	32.76	54.00	-21.24	AV	Horizontal
4000.09	52.83	-6.60	46.23	74.00	-27.77	PK	Vertical
4000.09	44.85	-6.60	38.25	54.00	-15.75	AV	Vertical
4000.08	51.84	-6.60	45.24	74.00	-28.76	PK	Horizontal
4000.08	44.80	-6.60	38.20	54.00	-15.80	AV	Horizontal
4803.78	60.22	-3.56	56.66	74.00	-17.34	PK	Vertical
4803.78	50.28	-3.56	46.72	54.00	-7.28	AV	Vertical
4804.81	60.28	-3.56	56.72	74.00	-17.28	PK	Horizontal
4804.81	50.21	-3.56	46.65	54.00	-7.35	AV	Horizontal
5360.09	47.13	-2.34	44.79	74.00	-29.21	PK	Vertical
5360.09	39.16	-2.34	36.82	54.00	-17.18	AV	Vertical
5360.07	47.22	-2.34	44.88	74.00	-29.12	PK	Horizontal
5360.07	39.17	-2.34	36.83	54.00	-17.17	AV	Horizontal
7206.18	52.66	3.40	56.06	74.00	-17.94	PK	Vertical
7206.18	44.61	3.40	48.01	54.00	-5.99	AV	Vertical
7206.16	52.62	3.40	56.02	74.00	-17.98	PK	Horizontal
7206.16	44.64	3.40	48.04	54.00	-5.96	AV	Horizontal
8124.30	45.11	4.80	49.91	74.00	-24.09	PK	Vertical



8124.30	35.08	4.80	39.88	54.00	-14.12	AV	Vertical
8124.23	45.09	4.80	49.89	74.00	-24.11	PK	Horizontal
8124.23	35.11	4.80	39.91	54.00	-14.09	AV	Horizontal
9104.98	45.95	5.00	50.95	74.00	-23.05	PK	Vertical
9104.98	35.90	5.00	40.90	54.00	-13.10	AV	Vertical
9105.28	45.93	5.00	50.93	74.00	-23.07	PK	Horizontal
9105.28	35.90	5.00	40.90	54.00	-13.10	AV	Horizontal
11036.22	41.93	10.20	52.13	74.00	-21.87	PK	Vertical
11036.22	31.89	10.20	42.09	54.00	-11.91	AV	Vertical
11036.47	41.87	10.20	52.07	74.00	-21.93	PK	Horizontal
11036.47	31.87	10.20	42.07	54.00	-11.93	AV	Horizontal
13299.62	41.71	12.20	53.91	74.00	-20.09	PK	Vertical
13299.62	31.73	12.20	43.93	54.00	-10.07	AV	Vertical
13299.74	41.75	12.20	53.95	74.00	-20.05	PK	Horizontal
13299.74	30.71	12.20	42.91	54.00	-11.09	AV	Horizontal
14480.09	41.65	13.40	55.05	74.00	-18.95	PK	Vertical
14480.09	30.71	13.40	44.11	54.00	-9.89	AV	Vertical
14480.09	41.59	13.40	54.99	74.00	-19.01	PK	Horizontal
14480.09	30.66	13.40	44.06	54.00	-9.94	AV	Horizontal
16000.15	41.79	12.40	54.19	74.00	-19.81	PK	Vertical
16000.15	31.75	12.40	44.15	54.00	-9.85	AV	Vertical
16000.04	41.75	12.40	54.15	74.00	-19.85	PK	Horizontal
16000.04	31.03	12.40	43.43	54.00	-10.57	AV	Horizontal
17998.14	31.89	23.10	54.99	74.00	-19.01	PK	Vertical
17998.14	21.91	23.10	45.01	54.00	-8.99	AV	Vertical
17998.01	31.93	23.10	55.03	74.00	-18.97	PK	Horizontal
17998.01	21.94	23.10	45.04	54.00	-8.96	AV	Horizontal



802.11b Mid Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3265.00	49.89	-9.80	40.09	74.00	-33.91	PK	Vertical
3265.00	39.85	-9.80	30.05	54.00	-23.95	AV	Vertical
3264.95	49.86	-9.80	40.06	74.00	-33.94	PK	Horizontal
3264.95	39.86	-9.80	30.06	54.00	-23.94	AV	Horizontal
3334.62	52.55	-9.75	42.80	74.00	-31.20	PK	Vertical
3334.62	42.68	-9.75	32.93	54.00	-21.07	AV	Vertical
3334.62	52.66	-9.75	42.91	74.00	-31.09	PK	Horizontal
3334.62	42.63	-9.75	32.88	54.00	-21.12	AV	Horizontal
3349.65	52.37	-9.75	42.62	74.00	-31.38	PK	Vertical
3349.65	42.43	-9.75	32.68	54.00	-21.32	AV	Vertical
3349.62	52.37	-9.75	42.62	74.00	-31.38	PK	Horizontal
3349.62	42.40	-9.75	32.65	54.00	-21.35	AV	Horizontal
3999.99	52.81	-6.60	46.21	74.00	-27.79	PK	Vertical
3999.99	44.73	-6.60	38.13	54.00	-15.87	AV	Vertical
3999.95	51.74	-6.60	45.14	74.00	-28.86	PK	Horizontal
3999.95	44.71	-6.60	38.11	54.00	-15.89	AV	Horizontal
4874.76	60.16	-3.56	56.60	74.00	-17.40	PK	Vertical
4874.76	50.17	-3.56	46.61	54.00	-7.39	AV	Vertical
4874.70	60.21	-3.56	56.65	74.00	-17.35	PK	Horizontal
4874.70	50.15	-3.56	46.59	54.00	-7.41	AV	Horizontal
5359.97	47.06	-2.34	44.72	74.00	-29.28	PK	Vertical
5359.97	39.08	-2.34	36.74	54.00	-17.26	AV	Vertical
5360.00	47.14	-2.34	44.80	74.00	-29.20	PK	Horizontal
5360.00	39.05	-2.34	36.71	54.00	-17.29	AV	Horizontal
7336.05	52.57	3.40	55.97	74.00	-18.03	PK	Vertical
7336.05	44.53	3.40	47.93	54.00	-6.07	AV	Vertical
7336.04	52.58	3.40	55.98	74.00	-18.02	PK	Horizontal
7336.04	44.56	3.40	47.96	54.00	-6.04	AV	Horizontal
8124.22	45.03	4.80	49.83	74.00	-24.17	PK	Vertical
8124.22	34.99	4.80	39.79	54.00	-14.21	AV	Vertical
8124.16	45.01	4.80	49.81	74.00	-24.19	PK	Horizontal
8124.16	35.04	4.80	39.84	54.00	-14.16	AV	Horizontal
9104.87	45.88	5.00	50.88	74.00	-23.12	PK	Vertical
9104.87	35.80	5.00	40.80	54.00	-13.20	AV	Vertical



9104.89	45.80	5.00	50.80	74.00	-23.20	PK	Horizontal
9104.89	35.81	5.00	40.81	54.00	-13.19	AV	Horizontal
11036.11	41.86	10.20	52.06	74.00	-21.94	PK	Vertical
11036.11	31.78	10.20	41.98	54.00	-12.02	AV	Vertical
11036.11	41.84	10.20	52.04	74.00	-21.96	PK	Horizontal
11036.11	31.85	10.20	42.05	54.00	-11.95	AV	Horizontal
13299.71	41.60	12.20	53.80	74.00	-20.20	PK	Vertical
13299.71	31.63	12.20	43.83	54.00	-10.17	AV	Vertical
13299.62	41.70	12.20	53.90	74.00	-20.10	PK	Horizontal
13299.62	30.62	12.20	42.82	54.00	-11.18	AV	Horizontal
14479.98	41.57	13.40	54.97	74.00	-19.03	PK	Vertical
14479.98	30.64	13.40	44.04	54.00	-9.96	AV	Vertical
14479.92	41.49	13.40	54.89	74.00	-19.11	PK	Horizontal
14479.92	30.55	13.40	43.95	54.00	-10.05	AV	Horizontal
15999.98	41.72	12.40	54.12	74.00	-19.88	PK	Vertical
15999.98	31.66	12.40	44.06	54.00	-9.94	AV	Vertical
15999.99	41.69	12.40	54.09	74.00	-19.91	PK	Horizontal
15999.99	30.99	12.40	43.39	54.00	-10.61	AV	Horizontal
17998.13	31.81	23.10	54.91	74.00	-19.09	PK	Vertical
17998.13	21.83	23.10	44.93	54.00	-9.07	AV	Vertical
17998.00	31.88	23.10	54.98	74.00	-19.02	PK	Horizontal
17998.00	21.88	23.10	44.98	54.00	-9.02	AV	Horizontal



802.11b High Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3265.07	49.79	-9.80	39.99	74.00	-34.01	PK	Vertical
3265.07	39.74	-9.80	29.94	54.00	-24.06	AV	Vertical
3265.04	49.73	-9.80	39.93	74.00	-34.07	PK	Horizontal
3265.04	39.83	-9.80	30.03	54.00	-23.97	AV	Horizontal
3334.66	52.46	-9.75	42.71	74.00	-31.29	PK	Vertical
3334.66	42.61	-9.75	32.86	54.00	-21.14	AV	Vertical
3334.68	52.57	-9.75	42.82	74.00	-31.18	PK	Horizontal
3334.68	42.56	-9.75	32.81	54.00	-21.19	AV	Horizontal
3349.72	52.30	-9.75	42.55	74.00	-31.45	PK	Vertical
3349.72	42.37	-9.75	32.62	54.00	-21.38	AV	Vertical
3349.74	52.32	-9.75	42.57	74.00	-31.43	PK	Horizontal
3349.74	42.32	-9.75	32.57	54.00	-21.43	AV	Horizontal
4000.12	52.70	-6.60	46.10	74.00	-27.90	PK	Vertical
4000.12	44.69	-6.60	38.09	54.00	-15.91	AV	Vertical
4000.07	51.70	-6.60	45.10	74.00	-28.90	PK	Horizontal
4000.07	44.61	-6.60	38.01	54.00	-15.99	AV	Horizontal
4924.82	60.05	-3.56	56.49	74.00	-17.51	PK	Vertical
4924.82	50.12	-3.56	46.56	54.00	-7.44	AV	Vertical
4924.78	60.11	-3.56	56.55	74.00	-17.45	PK	Horizontal
4924.78	50.02	-3.56	46.46	54.00	-7.54	AV	Horizontal
5360.04	46.98	-2.34	44.64	74.00	-29.36	PK	Vertical
5360.04	38.98	-2.34	36.64	54.00	-17.36	AV	Vertical
5360.03	47.05	-2.34	44.71	74.00	-29.29	PK	Horizontal
5360.03	38.96	-2.34	36.62	54.00	-17.38	AV	Horizontal
7386.16	52.49	3.40	55.89	74.00	-18.11	PK	Vertical
7386.16	44.48	3.40	47.88	54.00	-6.12	AV	Vertical
7386.20	52.53	3.40	55.93	74.00	-18.07	PK	Horizontal
7386.20	44.46	3.40	47.86	54.00	-6.14	AV	Horizontal
8124.30	44.97	4.80	49.77	74.00	-24.23	PK	Vertical
8124.30	34.91	4.80	39.71	54.00	-14.29	AV	Vertical
8124.23	44.93	4.80	49.73	74.00	-24.27	PK	Horizontal
8124.23	34.95	4.80	39.75	54.00	-14.25	AV	Horizontal
9104.93	45.80	5.00	50.80	74.00	-23.20	PK	Vertical
9104.93	35.77	5.00	40.77	54.00	-13.23	AV	Vertical



9104.97	45.71	5.00	50.71	74.00	-23.29	PK	Horizontal
9104.97	35.68	5.00	40.68	54.00	-13.32	AV	Horizontal
11036.21	41.75	10.20	51.95	74.00	-22.05	PK	Vertical
11036.21	31.71	10.20	41.91	54.00	-12.09	AV	Vertical
11036.19	41.74	10.20	51.94	74.00	-22.06	PK	Horizontal
11036.19	31.75	10.20	41.95	54.00	-12.05	AV	Horizontal
13299.70	41.56	12.20	53.76	74.00	-20.24	PK	Vertical
13299.70	31.59	12.20	43.79	54.00	-10.21	AV	Vertical
13299.70	41.65	12.20	53.85	74.00	-20.15	PK	Horizontal
13299.70	30.58	12.20	42.78	54.00	-11.22	AV	Horizontal
14480.03	41.46	13.40	54.86	74.00	-19.14	PK	Vertical
14480.03	30.52	13.40	43.92	54.00	-10.08	AV	Vertical
14480.03	41.45	13.40	54.85	74.00	-19.15	PK	Horizontal
14480.03	30.43	13.40	43.83	54.00	-10.17	AV	Horizontal
16000.09	41.63	12.40	54.03	74.00	-19.97	PK	Vertical
16000.09	31.61	12.40	44.01	54.00	-9.99	AV	Vertical
16000.05	41.59	12.40	53.99	74.00	-20.01	PK	Horizontal
16000.05	30.91	12.40	43.31	54.00	-10.69	AV	Horizontal
17998.22	31.74	23.10	54.84	74.00	-19.16	PK	Vertical
17998.22	21.77	23.10	44.87	54.00	-9.13	AV	Vertical
17998.09	31.77	23.10	54.87	74.00	-19.13	PK	Horizontal
17998.09	21.81	23.10	44.91	54.00	-9.09	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 = Meter 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)

Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
802.11 b							
2400.0	69.11	-12.99	56.12	74	-17.88	PK	Vertical
2400.0	54.90	-12.99	41.91	54	-12.09	AV	Vertical
2400.0	70.12	-12.99	57.13	74	-16.87	PK	Horizontal
2400.0	54.07	-12.99	41.08	54	-12.92	AV	Horizontal
2483.5	70.90	-12.78	58.12	74	-15.88	PK	Vertical
2483.5	53.93	-12.78	41.15	54	-12.85	AV	Vertical
2483.5	71.02	-12.78	58.24	74	-15.76	PK	Horizontal
2483.5	54.00	-12.78	41.22	54	-12.78	AV	Horizontal
802.11 g							
2400.0	67.87	-12.99	54.88	74	-19.12	PK	Vertical
2400.0	53.99	-12.99	41.00	54	-13.00	AV	Vertical
2400.0	67.04	-12.99	54.05	74	-19.95	PK	Horizontal
2400.0	54.88	-12.99	41.89	54	-12.11	AV	Horizontal
2483.5	66.98	-12.78	54.20	74	-19.80	PK	Vertical
2483.5	54.18	-12.78	41.40	54	-12.60	AV	Vertical
2483.5	66.96	-12.78	54.18	74	-19.82	PK	Horizontal
2483.5	54.06	-12.78	41.28	54	-12.72	AV	Horizontal



802.11 n20							
2400.0	67.00	-12.99	54.01	74	-19.99	PK	Vertical
2400.0	53.94	-12.99	40.95	54	-13.05	AV	Vertical
2400.0	66.94	-12.99	53.95	74	-20.05	PK	Horizontal
2400.0	54.02	-12.99	41.03	54	-12.97	AV	Horizontal
2483.5	67.07	-12.78	54.29	74	-19.71	PK	Vertical
2483.5	53.96	-12.78	41.18	54	-12.82	AV	Vertical
2483.5	66.94	-12.78	54.16	74	-19.84	PK	Horizontal
2483.5	53.95	-12.78	41.17	54	-12.83	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

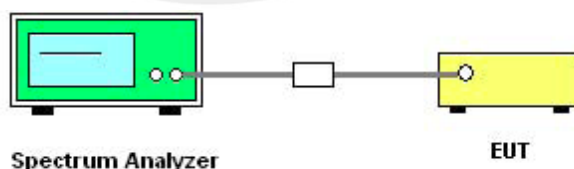
For Band edge

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

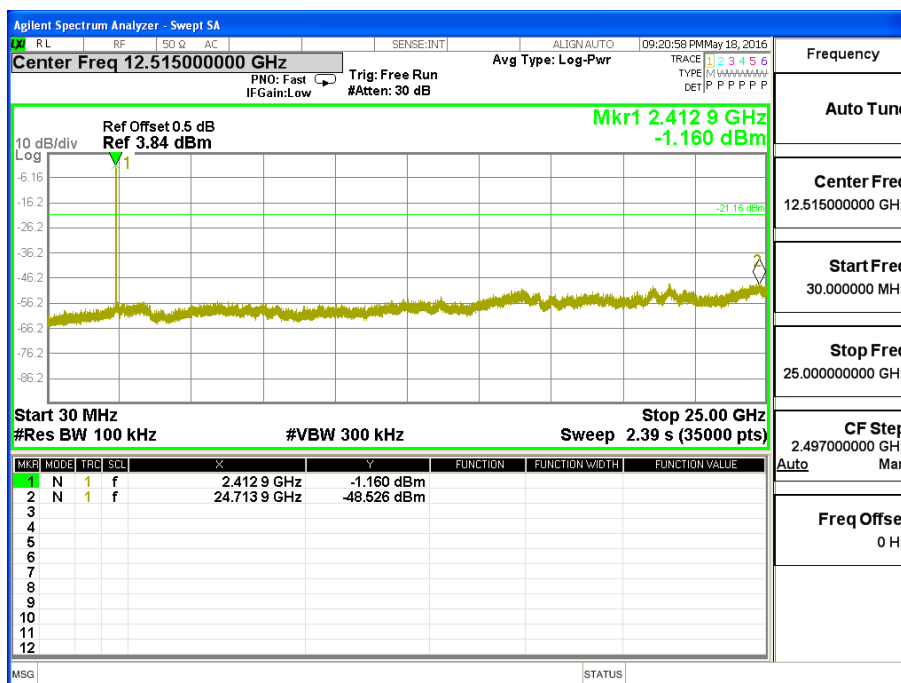
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



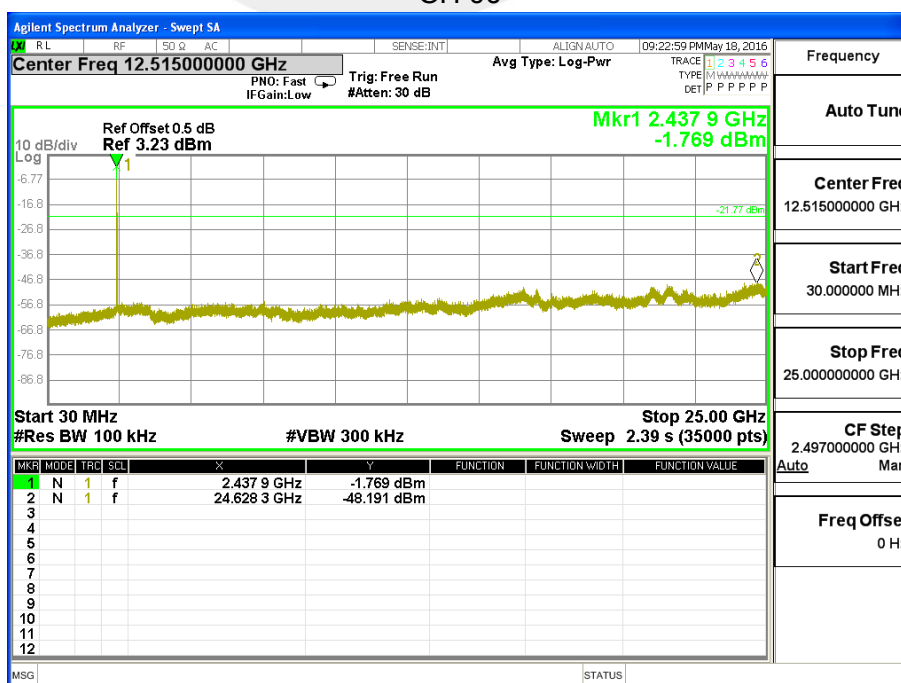
4.6 TEST RESULTS

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

CH 01

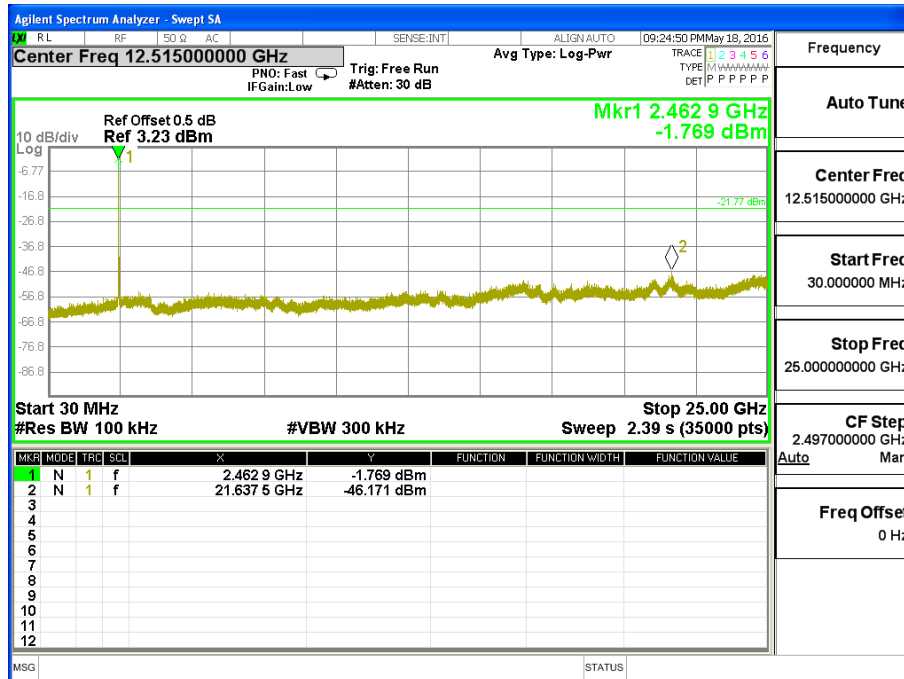


CH 06





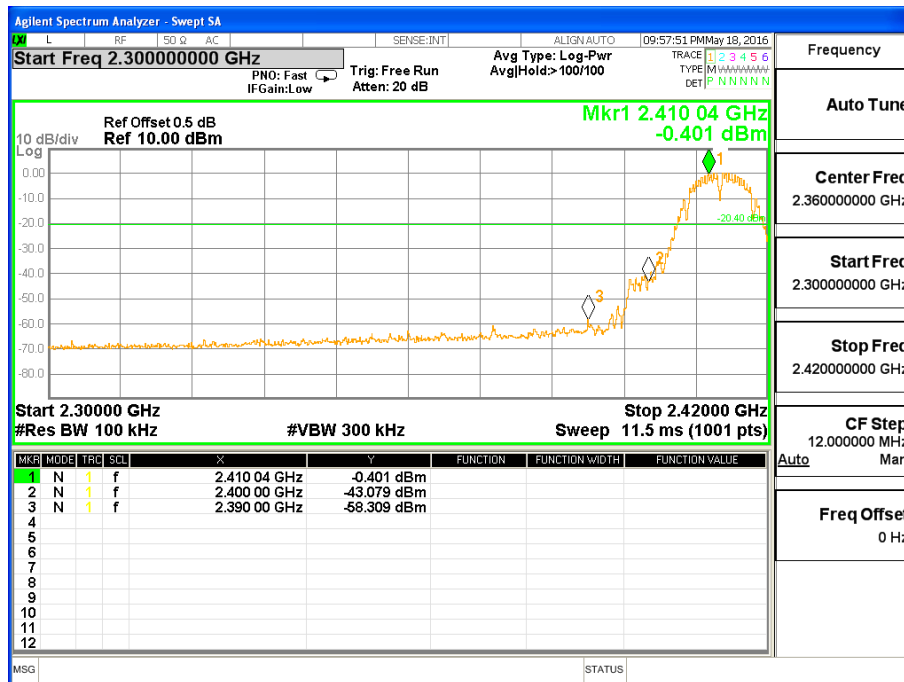
CH 11



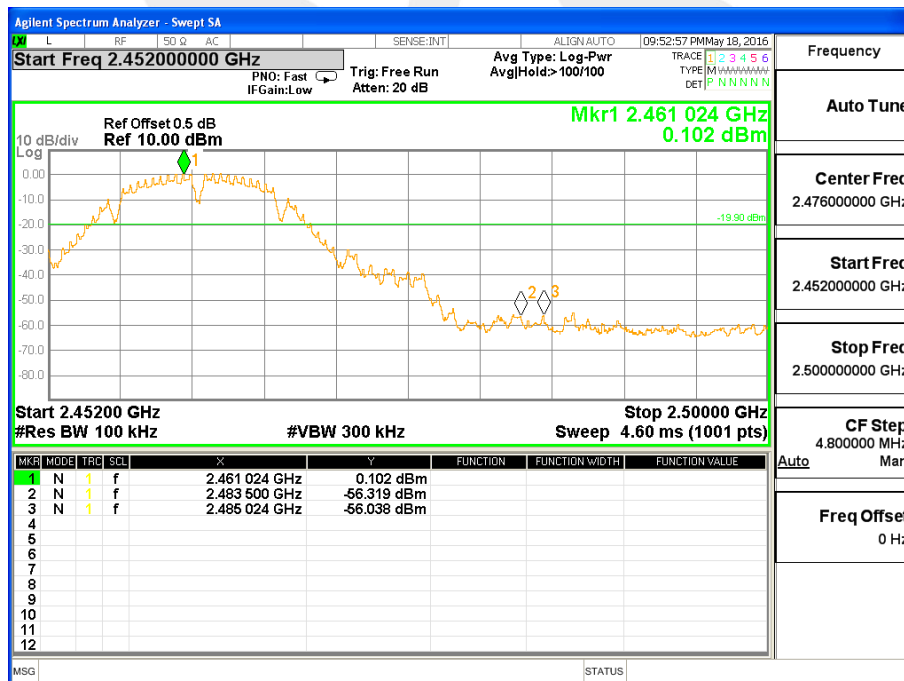


Band edge

CH 01



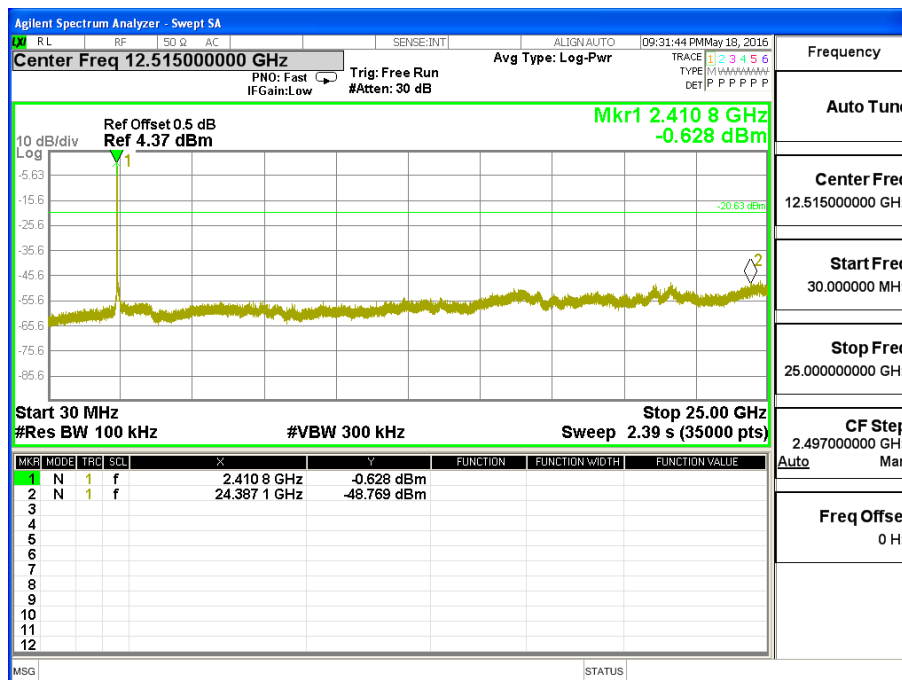
CH 11



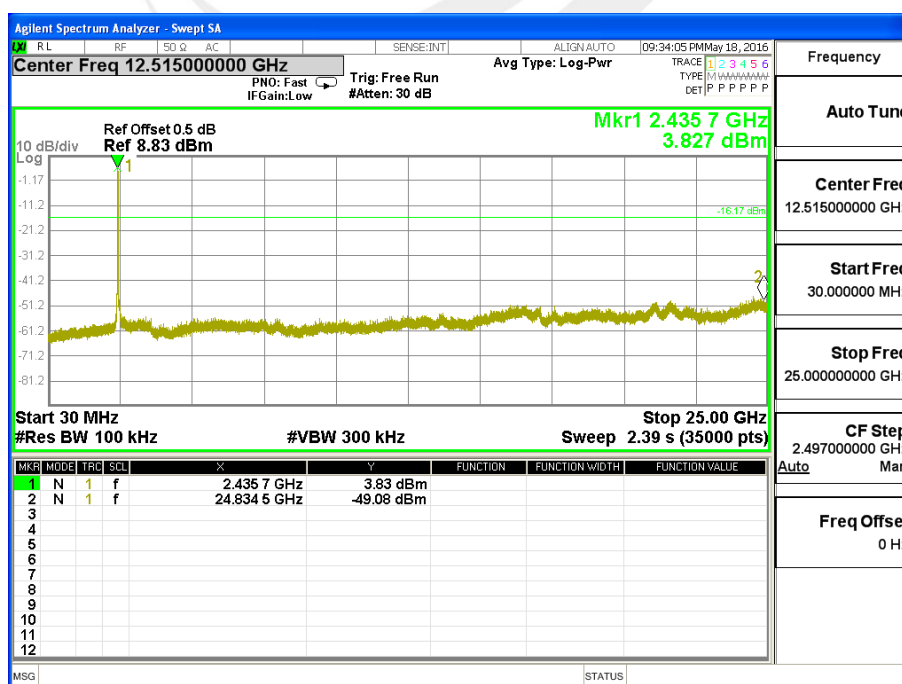


Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX g Mode /CH01, CH06, CH11		

CH 01

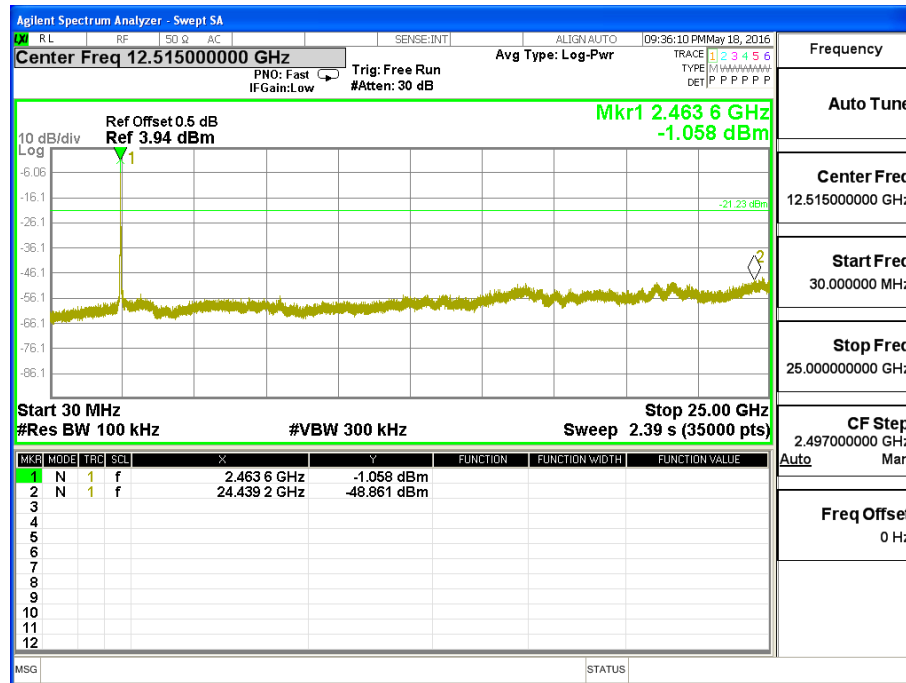


CH06





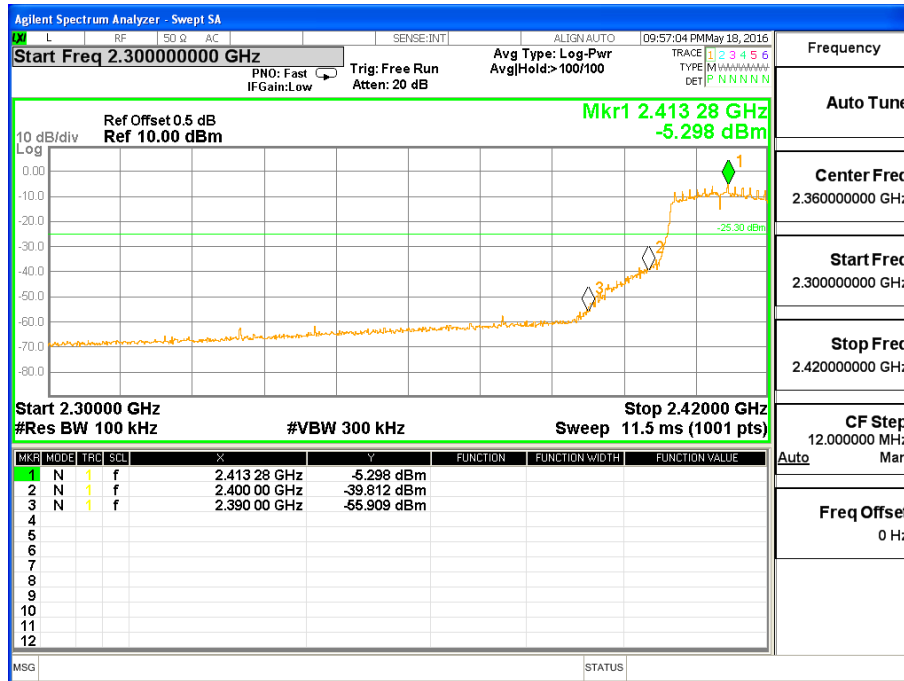
CH 11



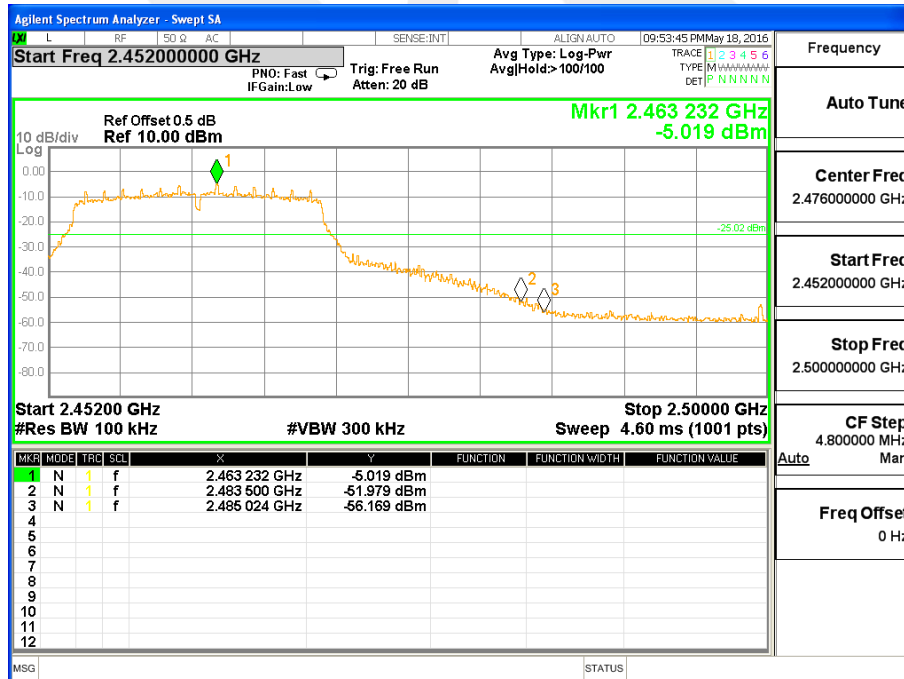


Band edge

CH 01



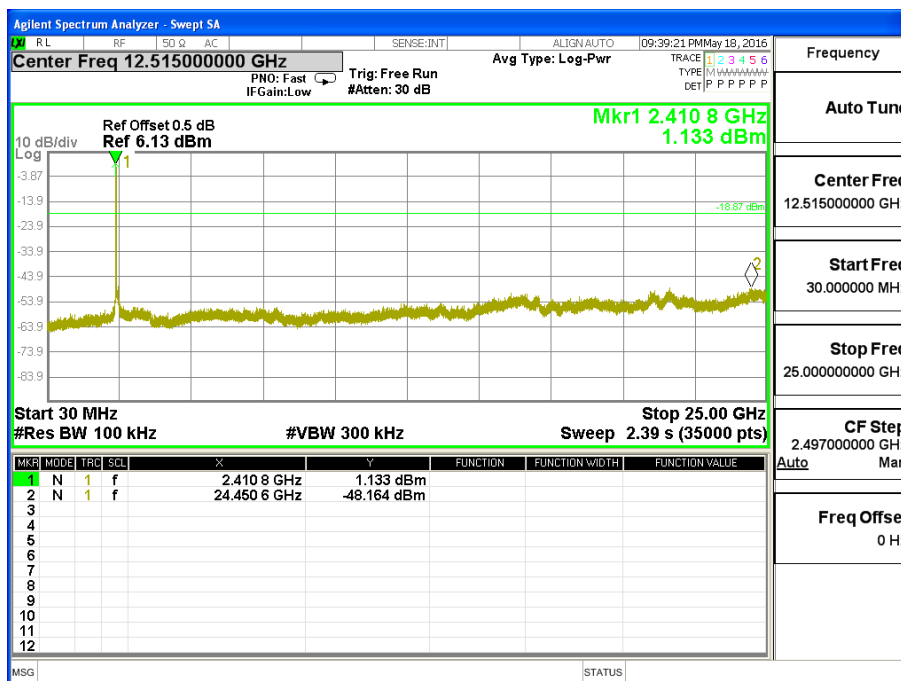
CH11



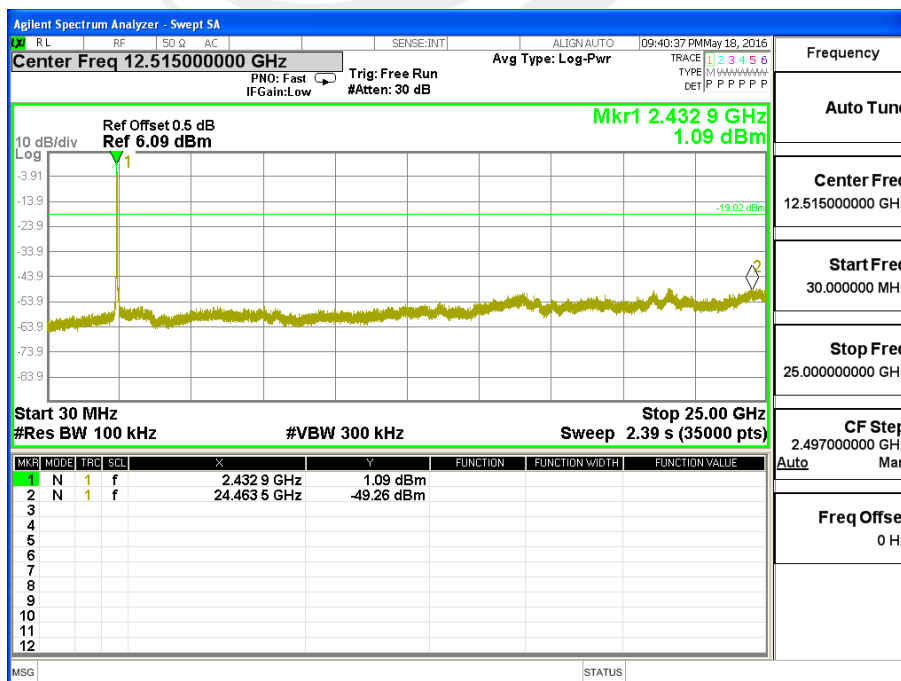


Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

CH 01

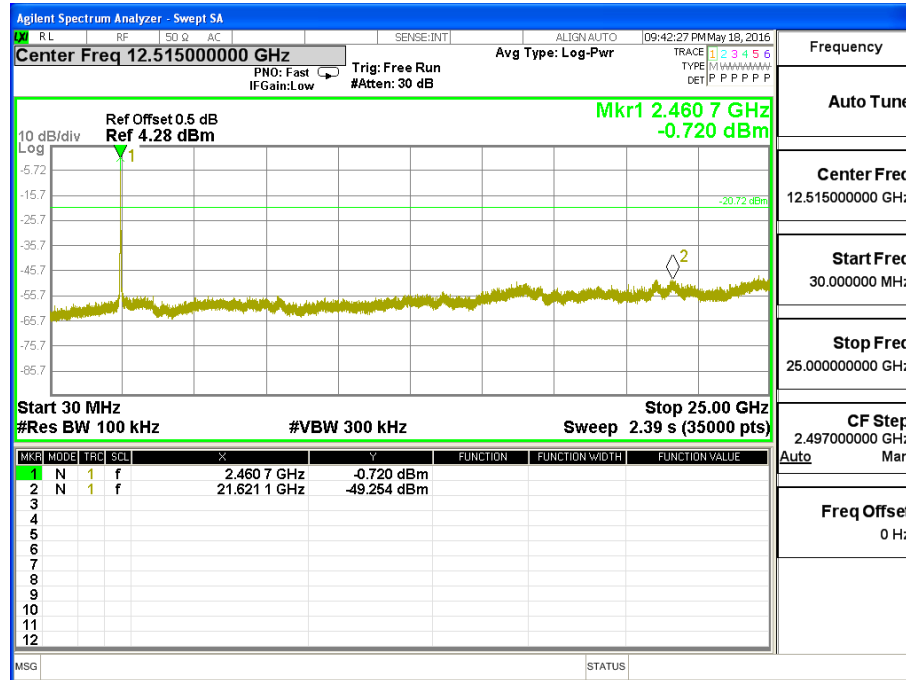


CH 06





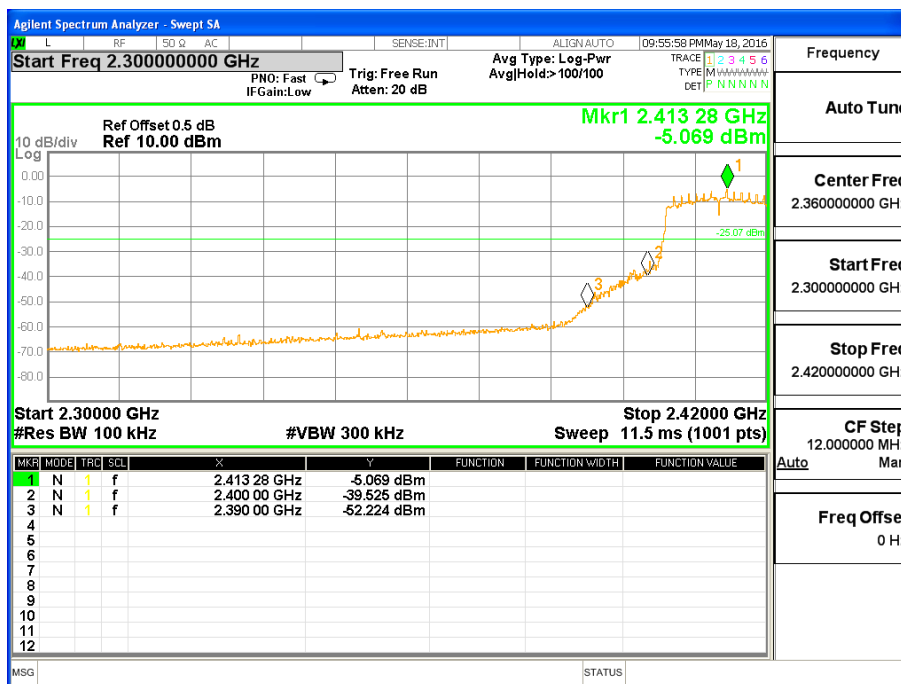
CH 11



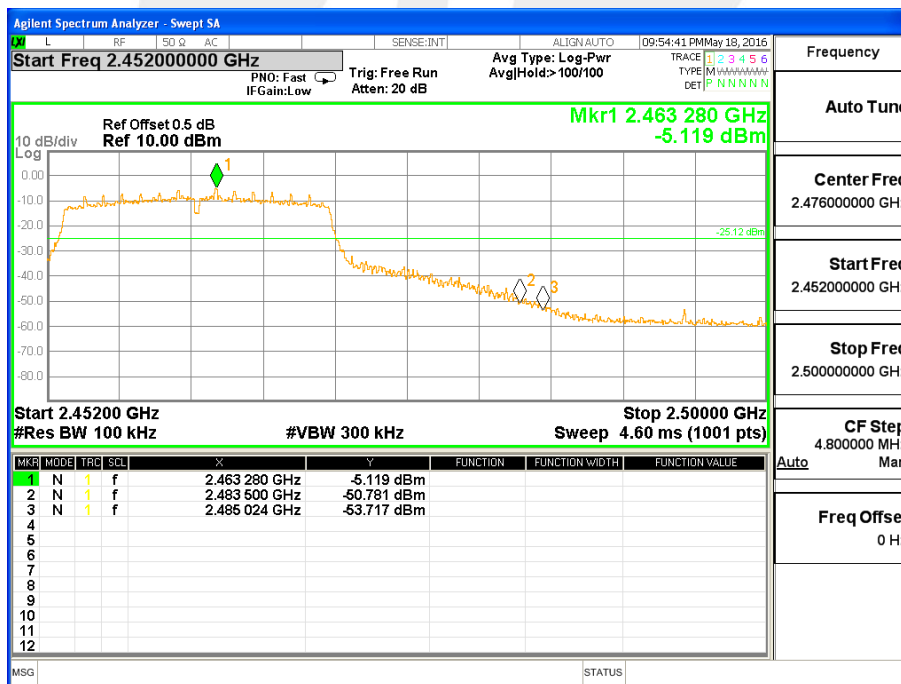


Band edge

CH 01



CH 11





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	<8 dBm (RBW $\geq$ 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 $\geq$ RBW $\geq$ 3 kHz.
4. Set the VBW $\geq$ 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.

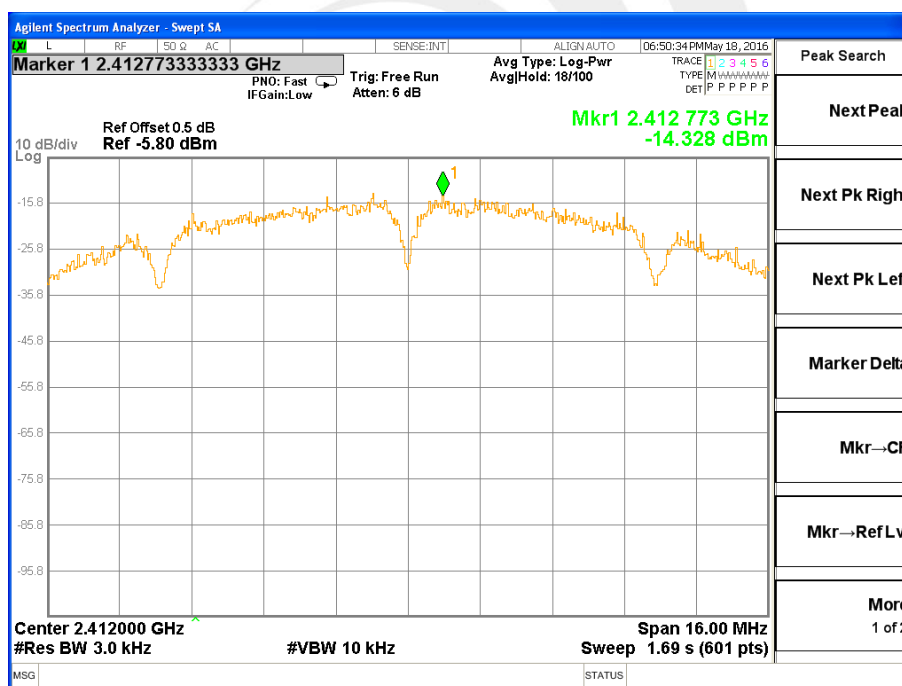


5.6 TEST RESULTS

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

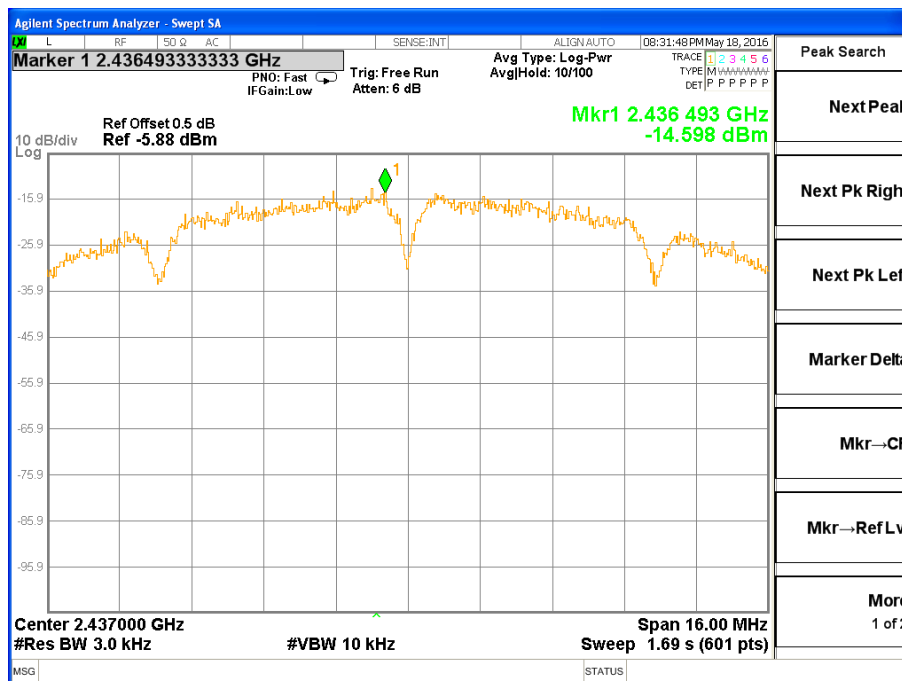
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-14.328	≤8	PASS
2437 MHz	-14.598	≤8	PASS
2462 MHz	-14.629	≤8	PASS

TX CH01

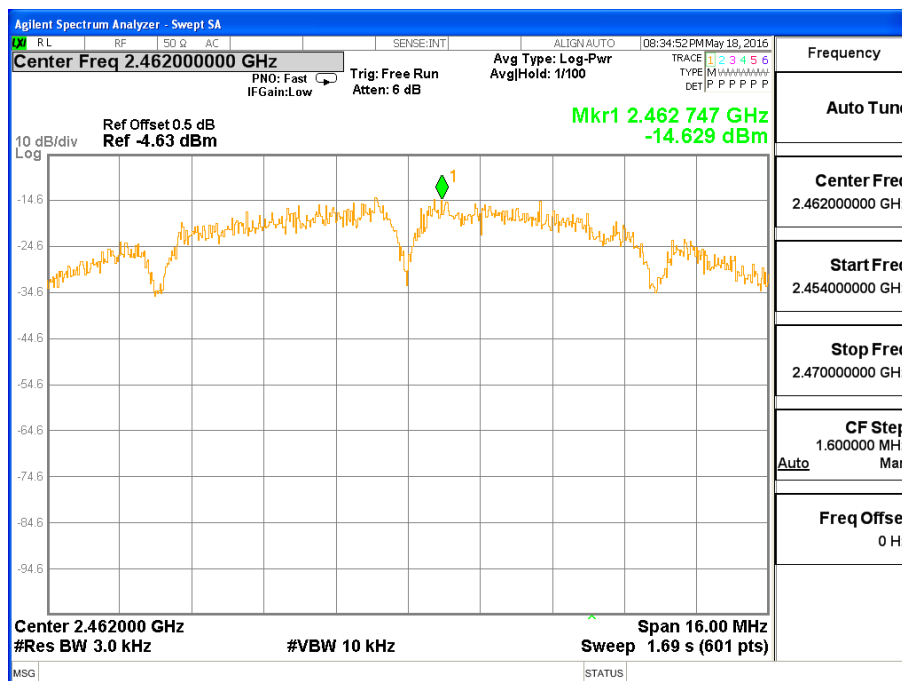




TX CH06



TX CH11

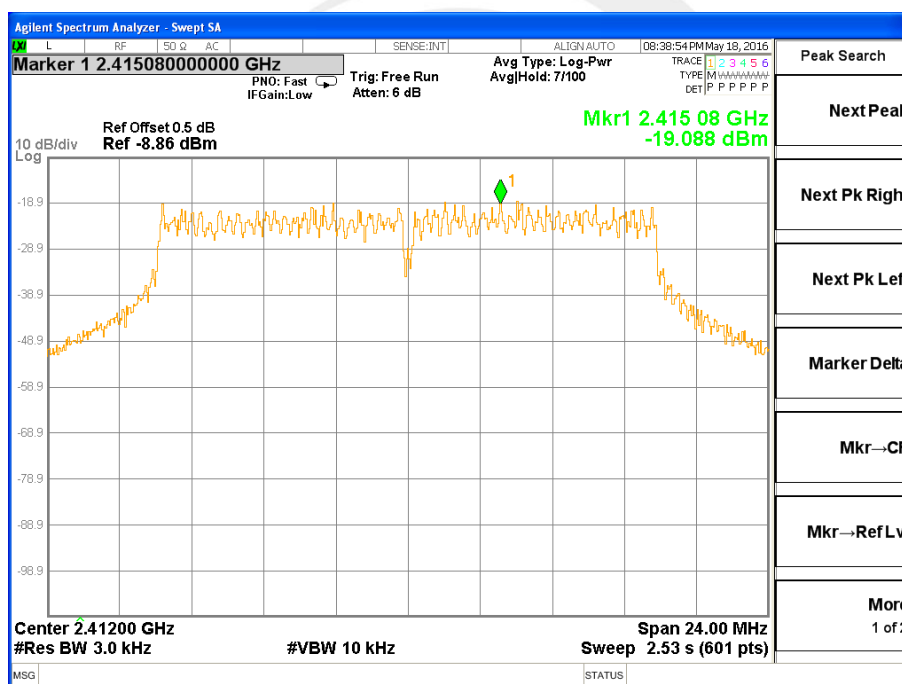




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX g Mode /CH01, CH06, CH11		

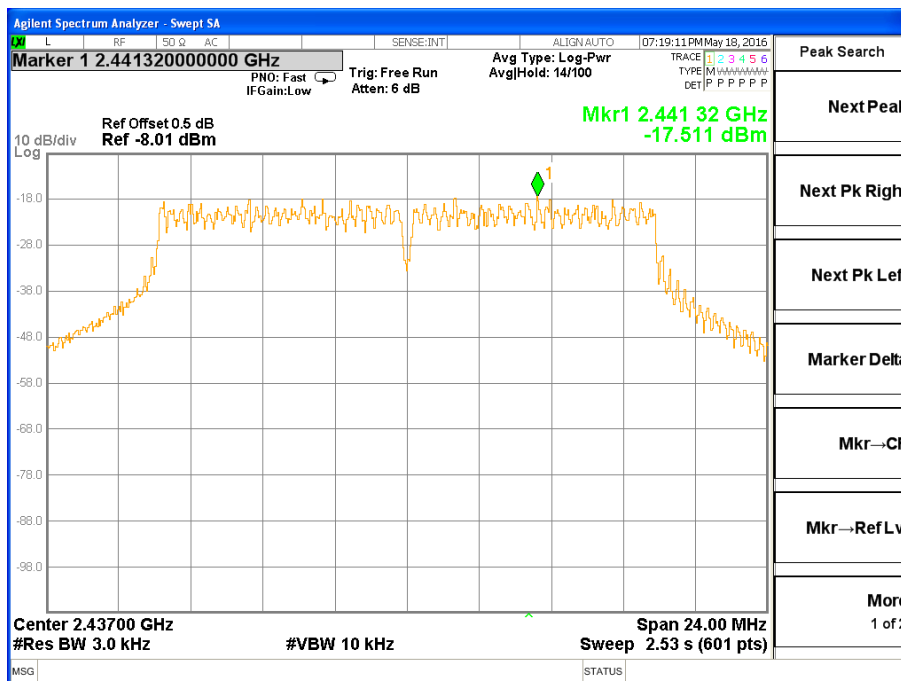
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-19.088	≤8	PASS
2437 MHz	-17.511	≤8	PASS
2462 MHz	-16.281	≤8	PASS

TX CH01

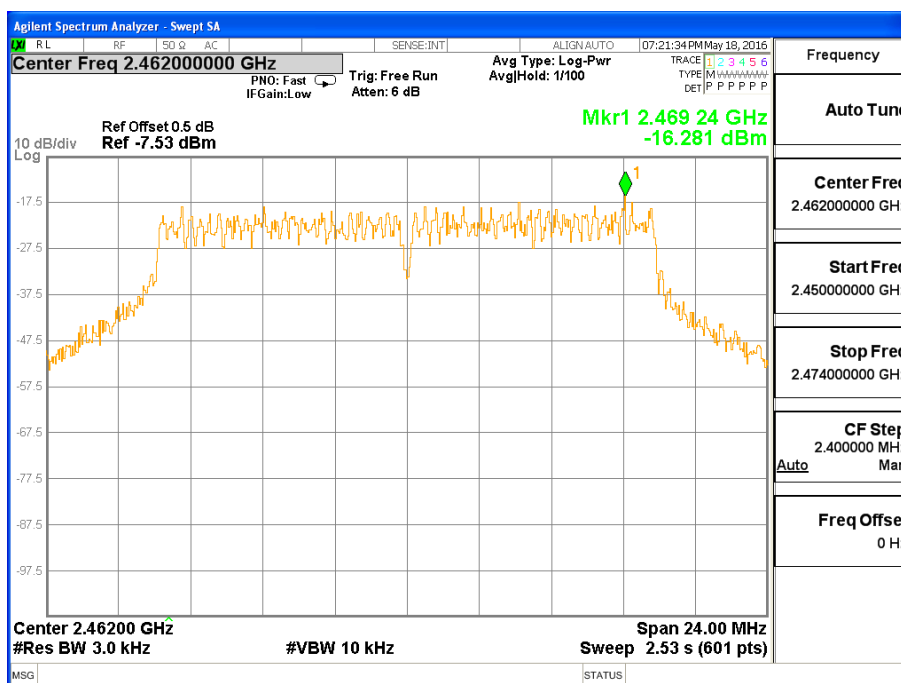




TX CH06



TX CH11

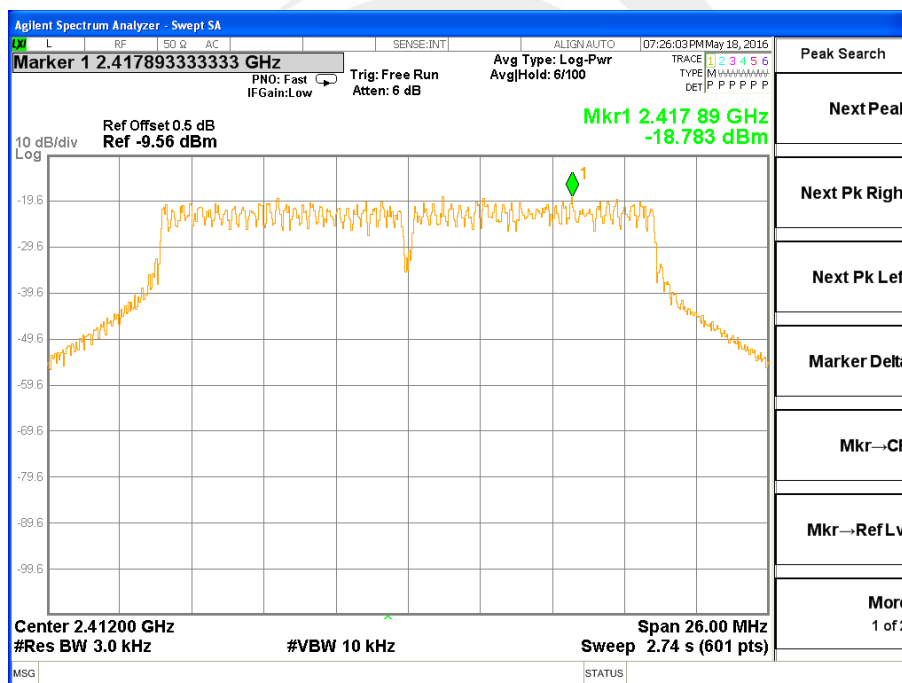




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

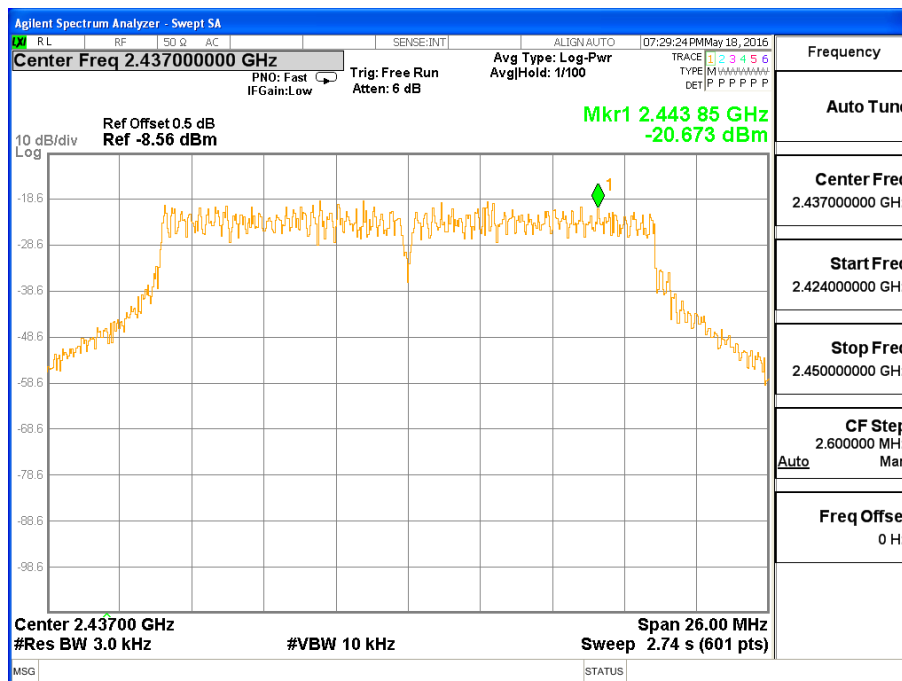
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-18.783	≤8	PASS
2437 MHz	-20.673	≤8	PASS
2462 MHz	-18.992	≤8	PASS

TX CH01

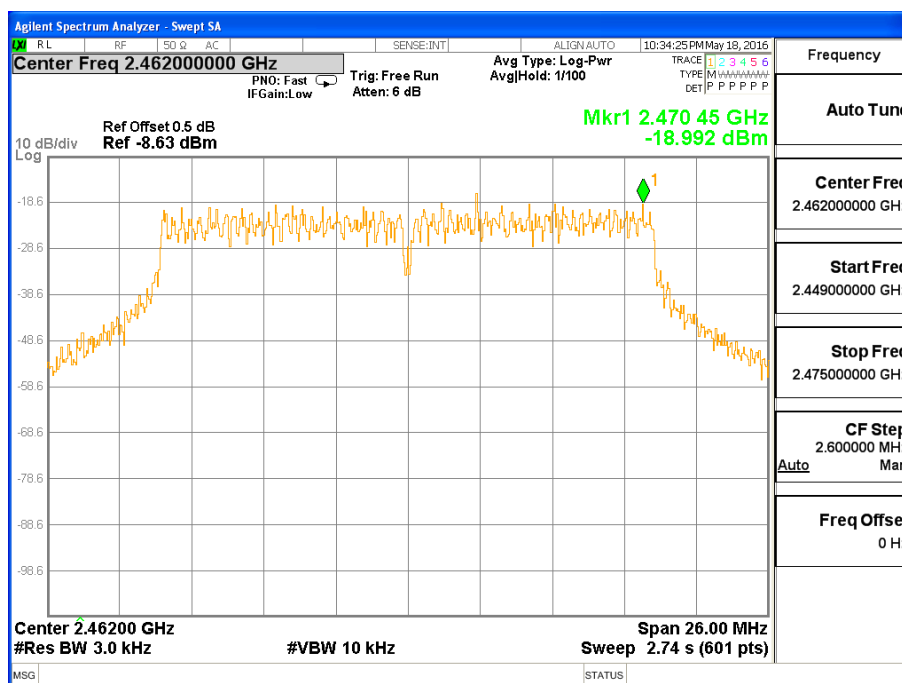




TX CH06



TX CH11





6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , 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.



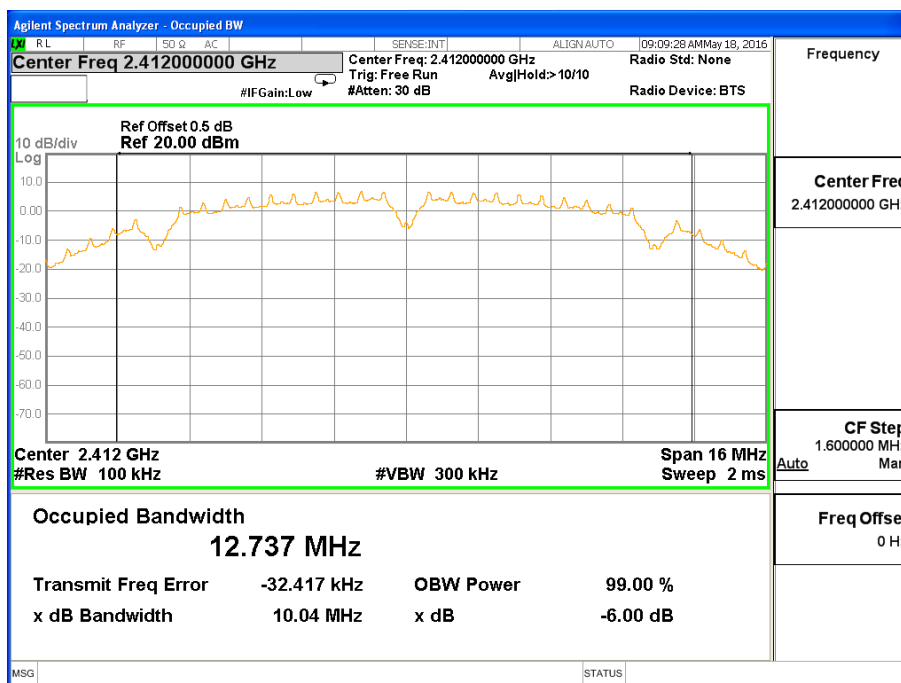
6.6 TEST RESULTS

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

Remark: PEAK DETECTOR IS USED

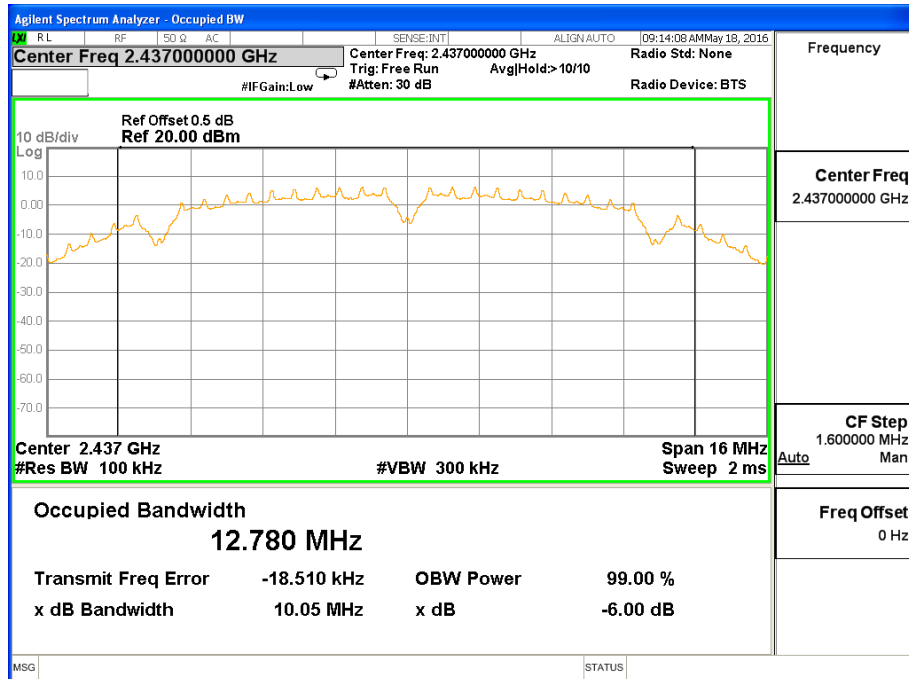
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.04	≥500KHz	PASS
2437 MHz	10.05	≥500KHz	PASS
2462 MHz	10.03	≥500KHz	PASS

TX CH 01

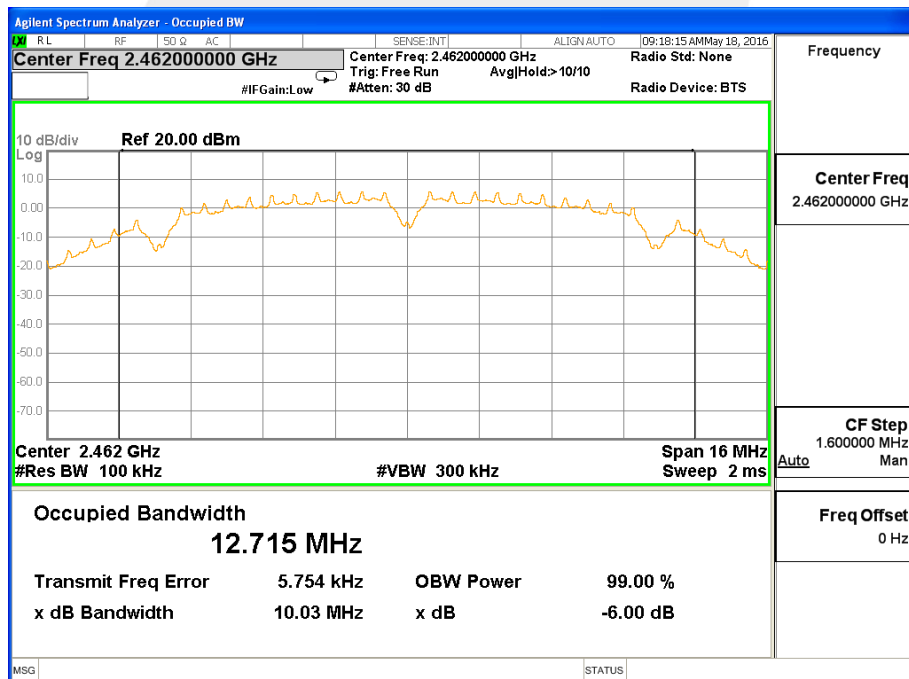




TX CH 06



TX CH 11

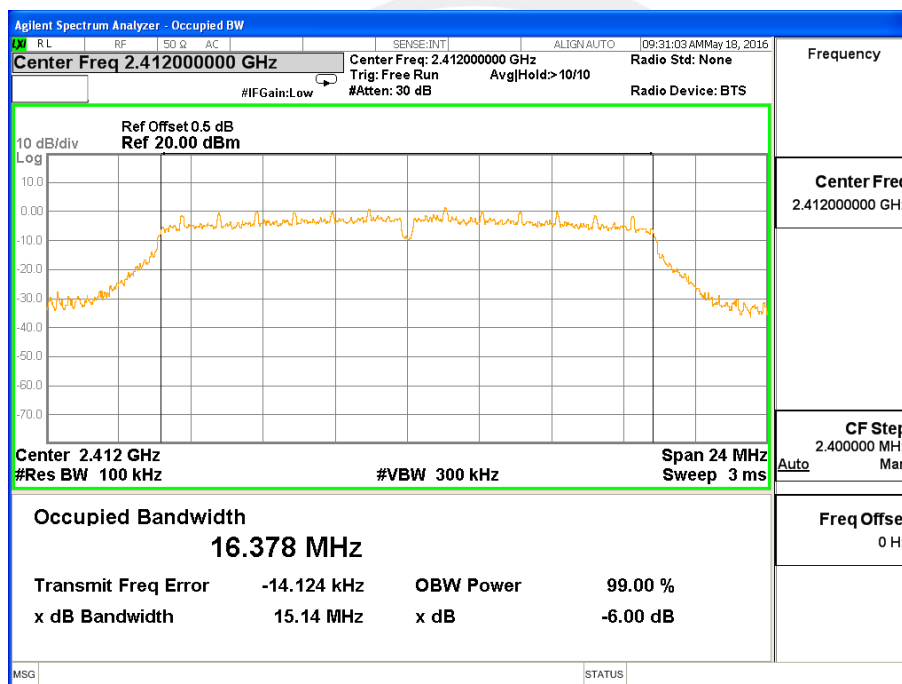




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX g Mode /CH01, CH06, CH11		

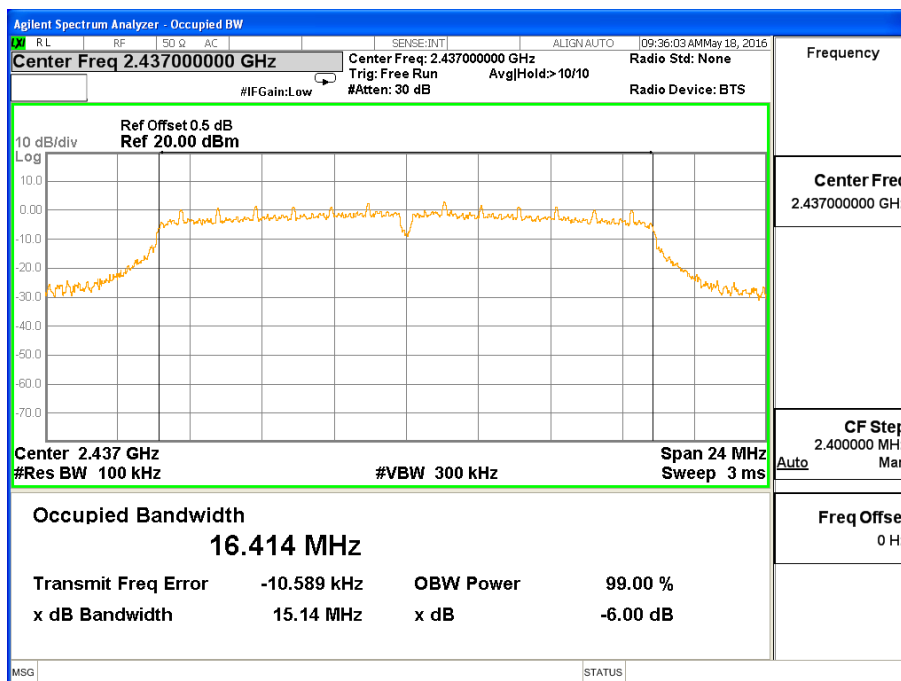
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.14	≥500KHz	PASS
2437 MHz	15.14	≥500KHz	PASS
2462 MHz	15.13	≥500KHz	PASS

TX CH 01

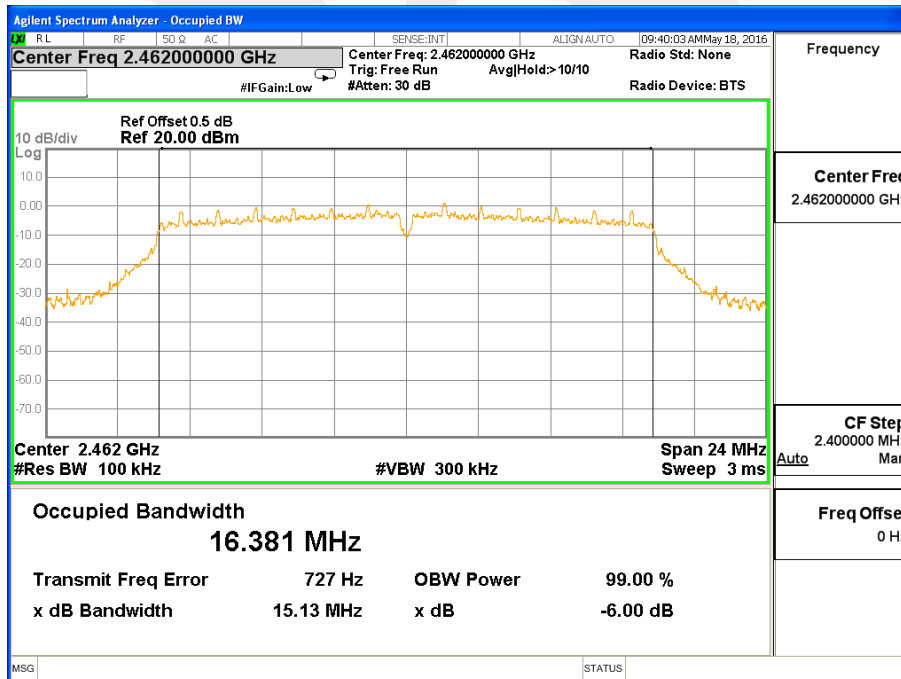




TX CH 06



TX CH 11

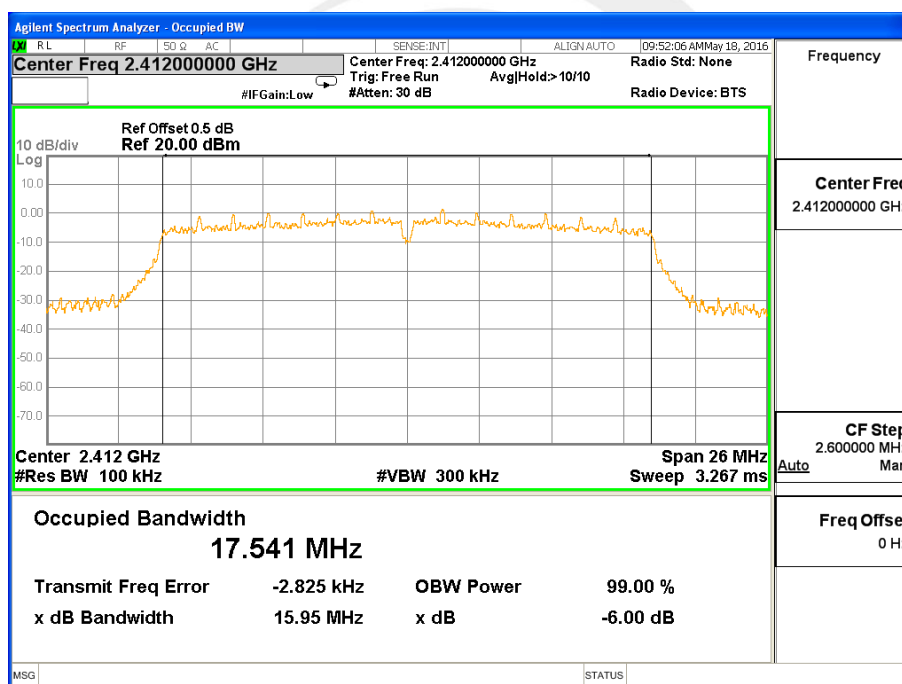




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

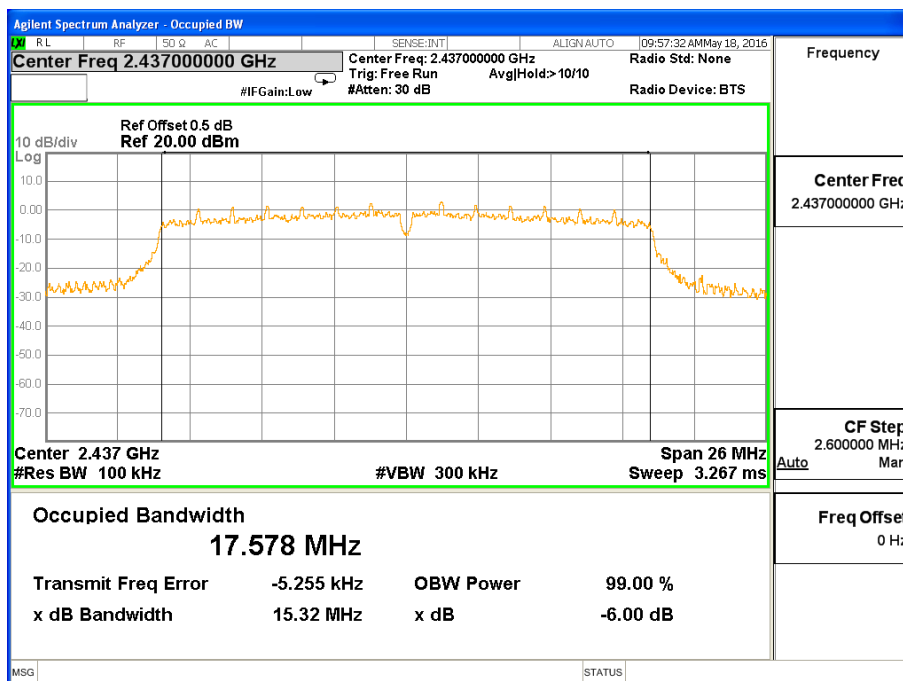
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.95	≥500KHz	PASS
2437 MHz	15.32	≥500KHz	PASS
2462 MHz	15.14	≥500KHz	PASS

TX CH 01

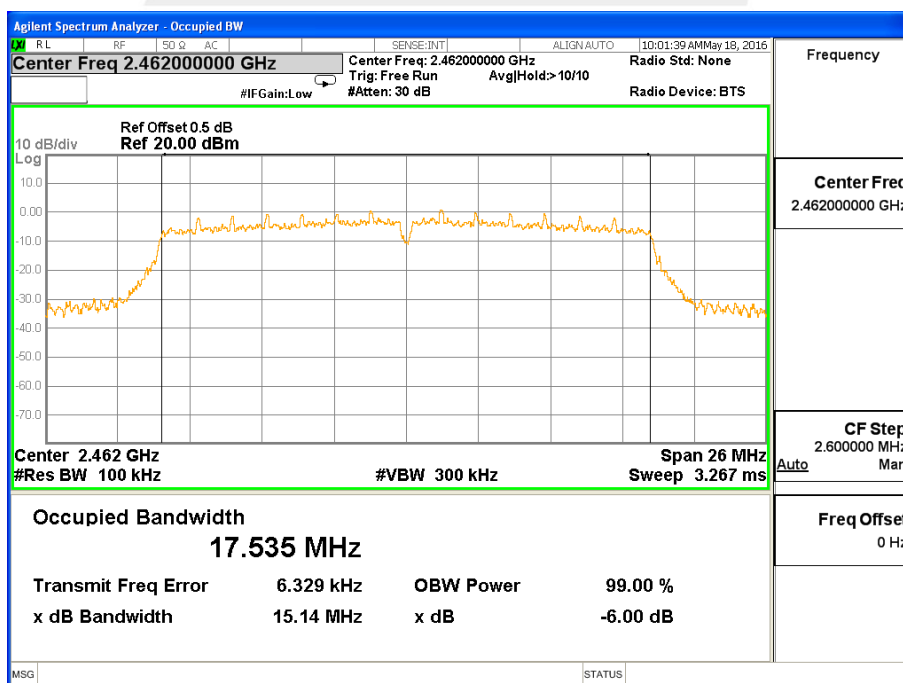




TX CH 06



TX CH 11





7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (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

- 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 5V

TX 802.11b Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	9.60	7.36	30
CH06	2437	9.50	7.25	30
CH11	2462	8.90	7.24	30

TX 802.11g Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	7.89	5.94	30
CH06	2437	8.02	6.28	30
CH11	2462	7.96	5.74	30

TX 802.11n20 Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	6.70	5.84	30
CH06	2437	7.80	6.34	30
CH11	2462	6.80	5.74	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.

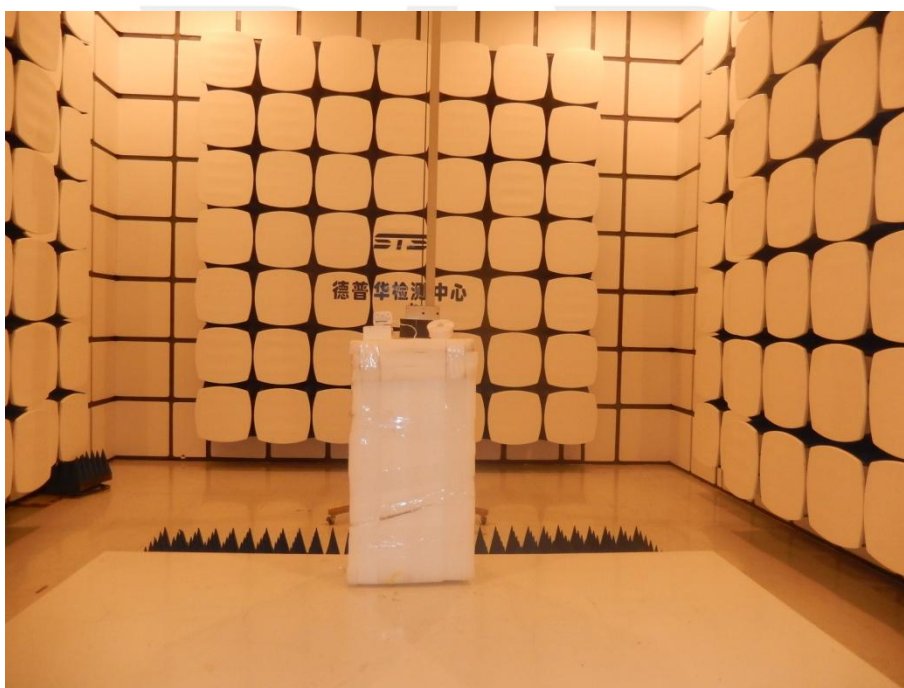
8.2 EUT ANTENNA

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



APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos



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