



# RADIO TEST REPORT

Report No.: STS2007201W02

Issued for

ShenZhen Aoni Electronic Industry Co., Ltd.

HongHui Industrial Park, 2nd LiuXian Road, Xin'An streets,  
District 68, Bao'an District, ShenZhen, China

<b>Product Name:</b>	Smart Wireless Bullet Camera
<b>Brand Name:</b>	N/A
<b>Model Name:</b>	E97V
<b>Series Model:</b>	E97VR72
<b>FCC ID:</b>	Z63-E97V
<b>Test Standard:</b>	FCC Part 15.247

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### TEST RESULT CERTIFICATION

**Applicant's Name** .....: ShenZhen Aoni Electronic Industry Co., Ltd.  
 Address .....: HongHui Industrial Park,2nd LiuXian Road, Xin'An streets, District 68, Bao'an District, ShenZhen, China  
**Manufacture's Name** .....: ShenZhen Aoni Electronic Industry Co., Ltd.  
 Address .....: HongHui Industrial Park,2nd LiuXian Road, Xin'An streets, District 68, Bao'an District, ShenZhen, China

#### Product Description

Product Name .....: Smart Wireless Bullet Camera  
 Brand Name.....: N/A  
 Model Name .....: E97V  
 SeriesModel.....: E97VR72

**Test Standards** .....: FCC Part15.247

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

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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#### Date of Test .....

Date of receipt of test item.....: 07 July 2020  
 Date (s) of performance of tests .....: 07 July 2020 ~ 01 Aug. 2020  
 Date of Issue .....: 01 Aug. 2020  
 Test Result.....: **Pass**

Testing Engineer : *Chris Chen*

(Chris Chen)

Technical Manager : *Sean She*

(Sean she)

Authorized Signatory : *Vita Li*

(Vita Li)

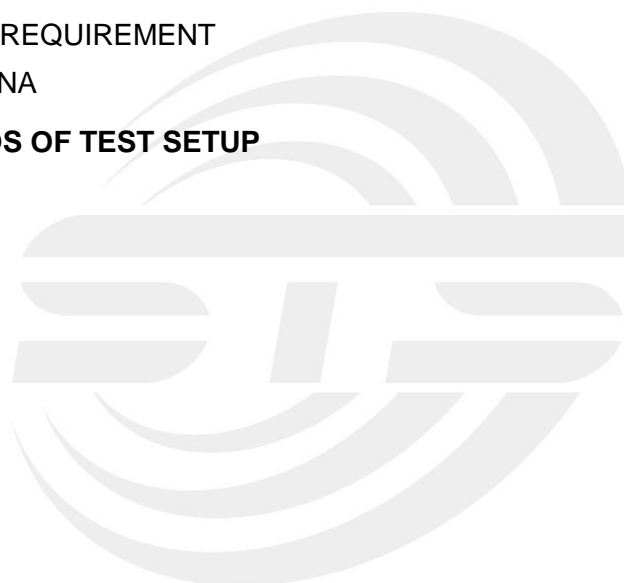




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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	01 Aug. 2020	STS2007201W02	ALL	Initial Issue





## 1. SUMMARY OF TEST RESULTS

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

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247 (c)	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

### NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

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

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 5.6\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 3.37\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 3.83\text{dB}$



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Wireless Bullet Camera	
Trade Name	N/A	
Model Name	E97V	
Series Model	E97VR72	
Model Difference	Only the model name is different	
Product Description	The EUT is a Smart Wireless Bullet Camera	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps
	Number of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH
	Antenna Designation:	Please refer to the Note 3.
	AntennaGain (dBi):	3dBi
	Duty Cycle:	>98%
	Channel List	Please refer to the Note 2.
Power Rating	Input: DC 12V 1A	
Adapter	Input: 100~240V, 50/60Hz, 0.4A Max Output: DC 12V 1A	
Hardware version number	N/A	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

## Note:

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





2.

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

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)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3.

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	E97V	FPC	N/A	3dBi	WLAN Antenna



## 2.2 DESCRIPTION OF THE TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

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

### AC Conducted Emission

Test Case	
AC Conducted Emission	Mode13: Keeping WIFI TX

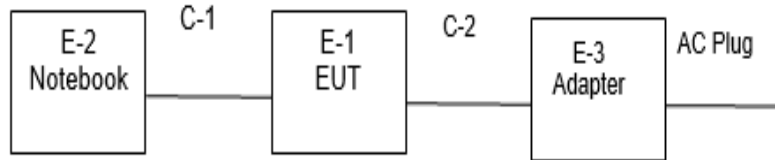
## 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

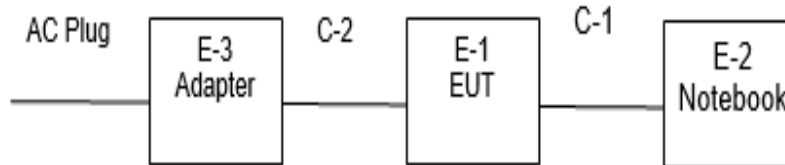
RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	3	30	SecureCRT 8.1
		802.11g		45	
		802.11n(HT20)		52	
		802.11n(HT40)		50	

## 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

### Radiation Test Set



### conduction Test Set





## 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

### Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-3	Adapter	N/A	KA1201A-1201000US	N/A	N/A
C-2	USB Cable	N/A	100cm	N/A	N/A

### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	DC Cable	N/A	110cm	N/A	N/A

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2019.10.12	2020.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK201810180 1	2019.10.12	2020.10.11
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.10.09	2020.10.08
LISN	R&S	ENV216	101242	2019.10.09	2020.10.08
LISN	EMCO	3810/2NM	23625	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	FARAD	LZ-RF /LzRf-3A3			



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

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

Note:

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

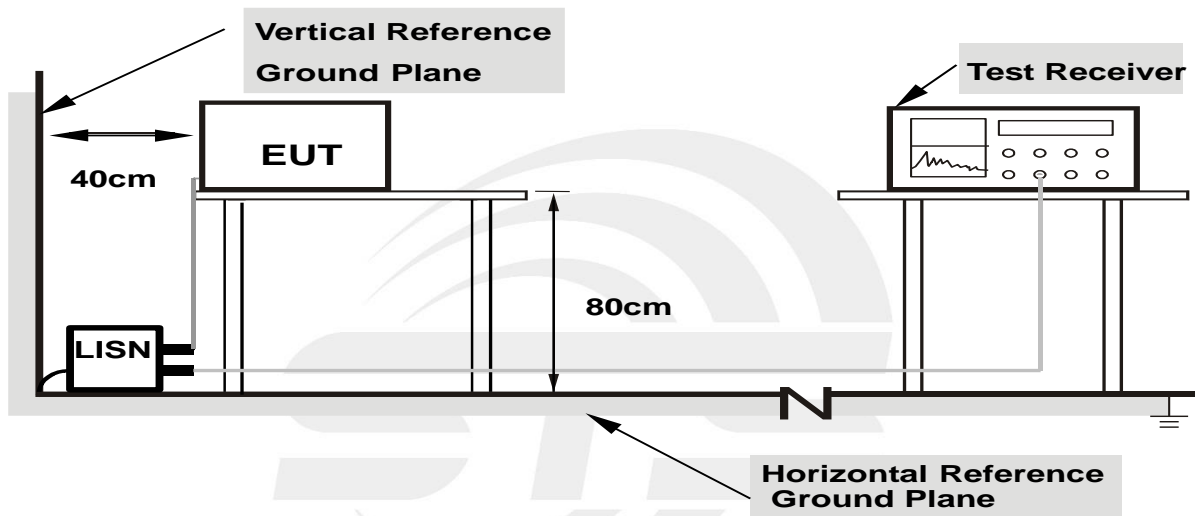
The following table is the setting of the receiver

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

### 3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



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



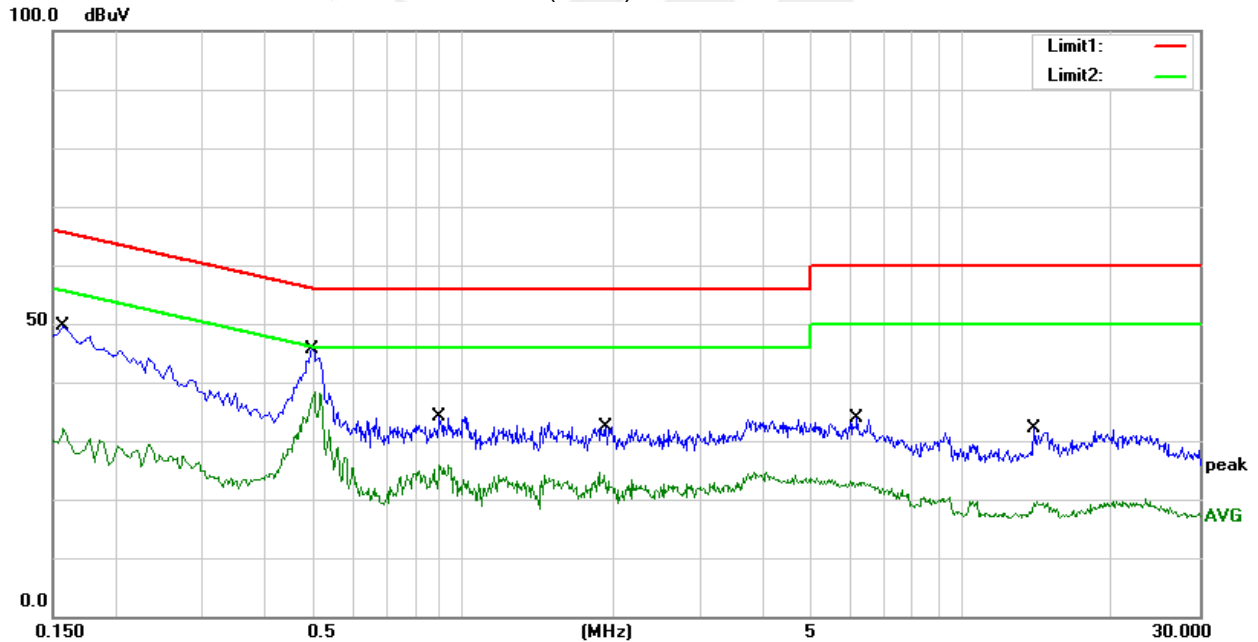
3.1.5 TEST RESULT

Temperature:	27.0(C)	Relative Humidity:	67%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	29.46	20.23	49.69	65.57	-15.88	QP
2	0.1580	11.81	20.23	32.04	55.57	-23.53	AVG
3	0.4980	25.20	20.48	45.68	56.03	-10.35	QP
4	0.4980	17.79	20.48	38.27	46.03	-7.76	AVG
5	0.8980	13.95	20.20	34.15	56.00	-21.85	QP
6	0.8980	5.58	20.20	25.78	46.00	-20.22	AVG
7	1.9380	12.37	20.06	32.43	56.00	-23.57	QP
8	1.9380	4.55	20.06	24.61	46.00	-21.39	AVG
9	6.1860	13.91	19.89	33.80	60.00	-26.20	QP
10	6.1860	3.09	19.89	22.98	50.00	-27.02	AVG
11	13.9540	11.86	20.20	32.06	60.00	-27.94	QP
12	13.9540	-0.68	20.20	19.52	50.00	-30.48	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor = LISN factor + Cable loss + Limiter (10dB)





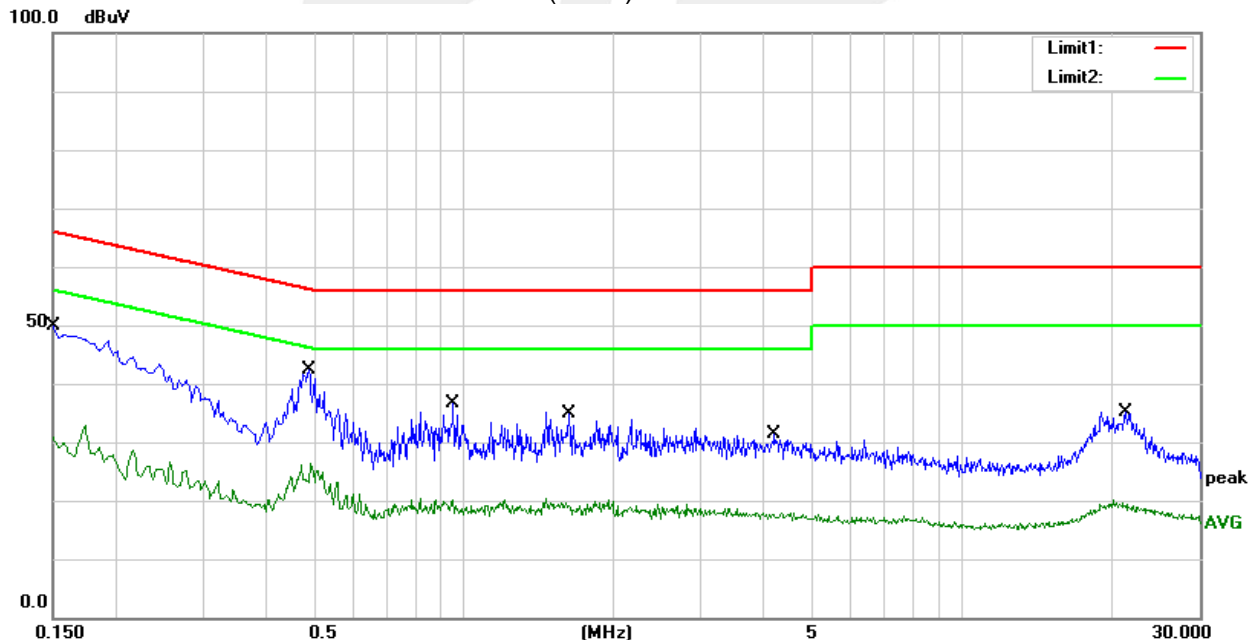


Temperature:	27.0(C)	Relative Humidity:	67%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	29.58	20.23	49.81	66.00	-16.19	QP
2	0.1500	10.76	20.23	30.99	56.00	-25.01	AVG
3	0.4900	21.95	20.48	42.43	56.17	-13.74	QP
4	0.4900	5.77	20.48	26.25	46.17	-19.92	AVG
5	0.9540	16.37	20.18	36.55	56.00	-19.45	QP
6	0.9540	0.03	20.18	20.21	46.00	-25.79	AVG
7	1.6300	14.78	20.10	34.88	56.00	-21.12	QP
8	1.6300	-0.90	20.10	19.20	46.00	-26.80	AVG
9	4.2220	11.42	19.95	31.37	56.00	-24.63	QP
10	4.2220	-1.98	19.95	17.97	46.00	-28.03	AVG
11	21.2740	14.49	20.61	35.10	60.00	-24.90	QP
12	21.2740	-1.25	20.61	19.36	50.00	-30.64	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

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

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RESTRICTED FREQUENCY BANDS

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



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

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

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

### 3.2.2 TEST PROCEDURE

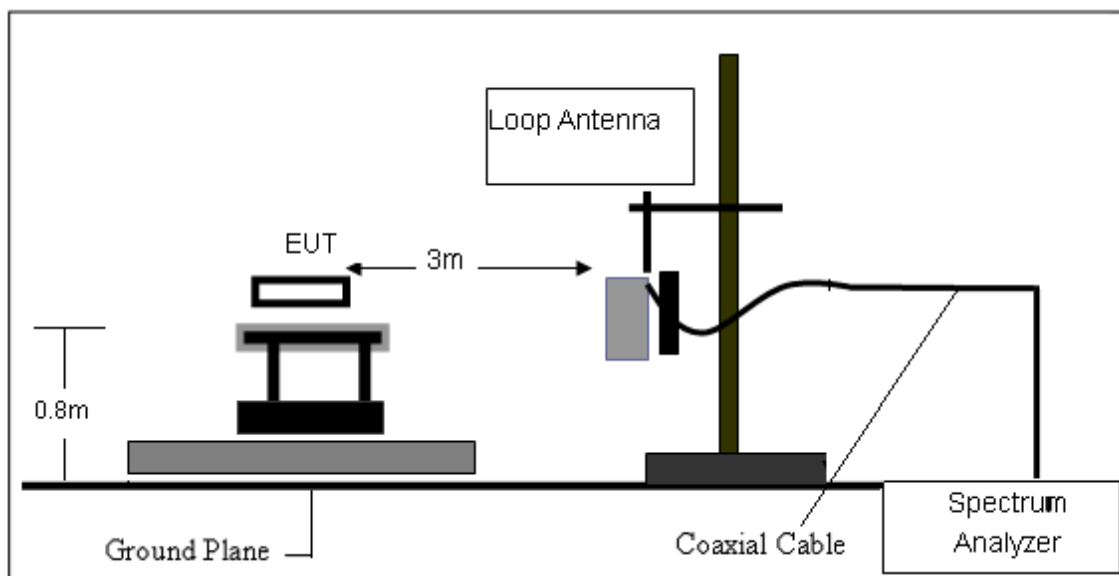
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

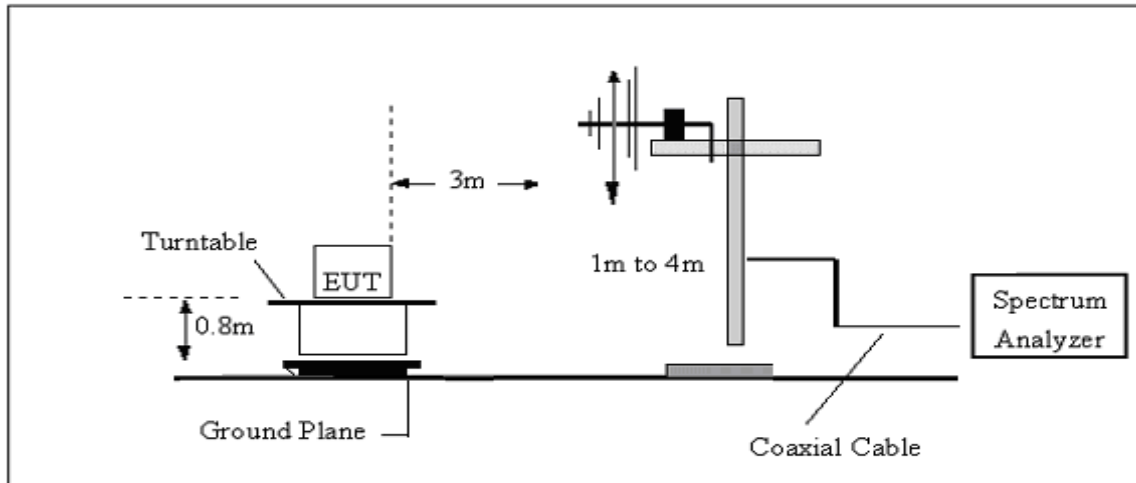
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported.

### 3.2.3 TEST SETUP

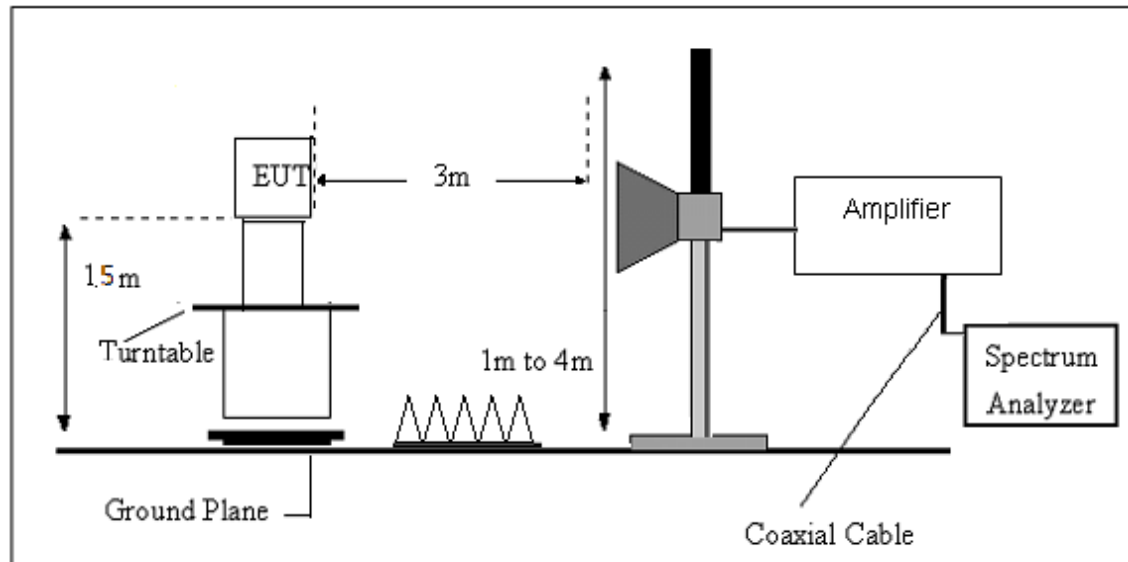
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



### 3.2.4 EUT OPERATING CONDITIONS

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



### 3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB $\mu$ V/m)	RA (dB $\mu$ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

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





## 3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	22.6(C)	Relative Humidity:	57%RH
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

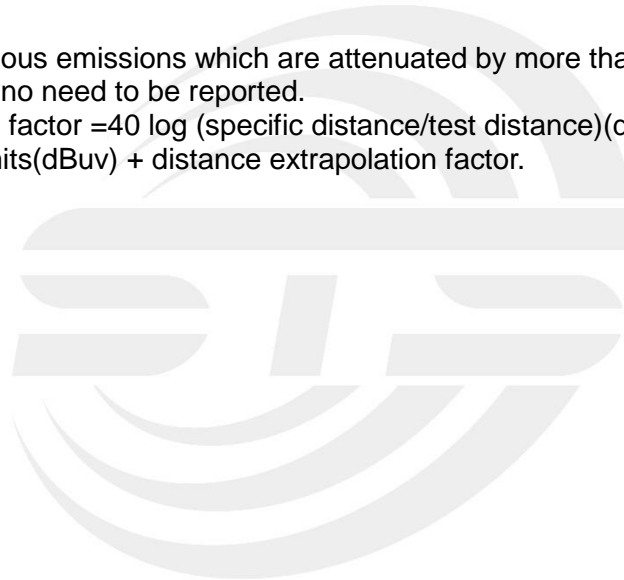
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F	Test Result
--	--	--	--	--	PASS
--	--	--	--	--	PASS

## Note:

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

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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





(30MHz - 1000MHz)

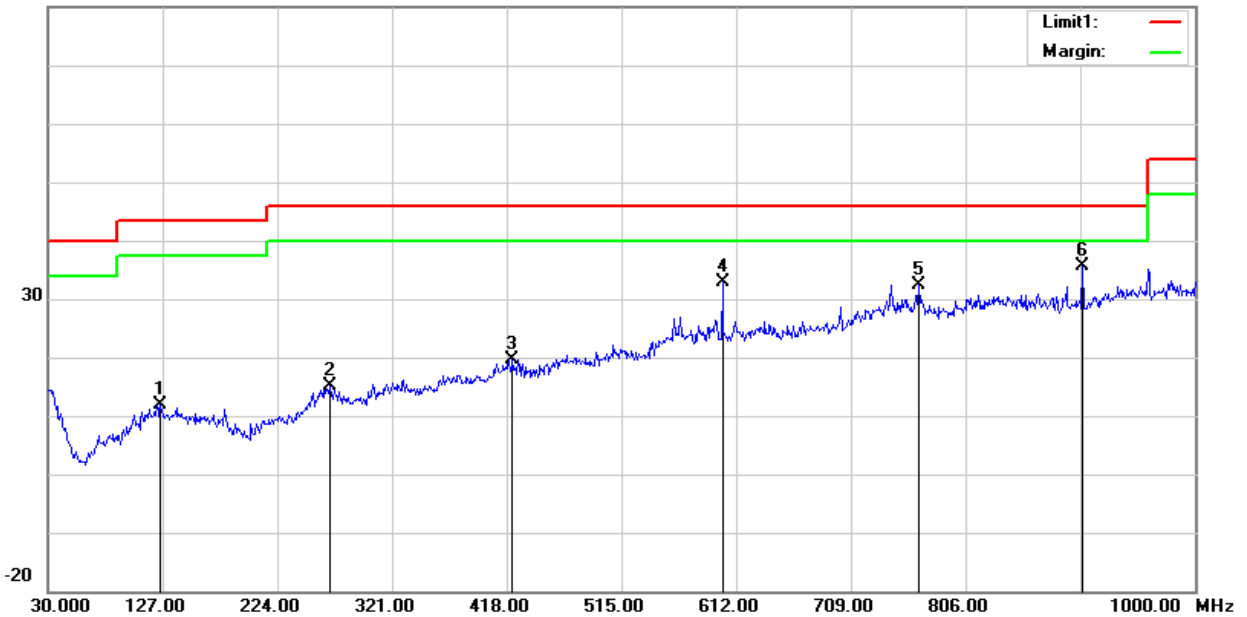
Temperature:	22.6(C)	Relative Humidity:	57%RH
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	125.0600	30.02	-18.22	11.80	43.50	-31.70	QP
2	268.6200	30.40	-15.17	15.23	46.00	-30.77	QP
3	422.8500	29.77	-10.11	19.66	46.00	-26.34	QP
4	600.3600	38.70	-5.84	32.86	46.00	-13.14	QP
5	766.2300	34.58	-2.27	32.31	46.00	-13.69	QP
6	904.9400	36.03	-0.32	35.71	46.00	-10.29	QP

Remark:

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

80.0 dBUV/m





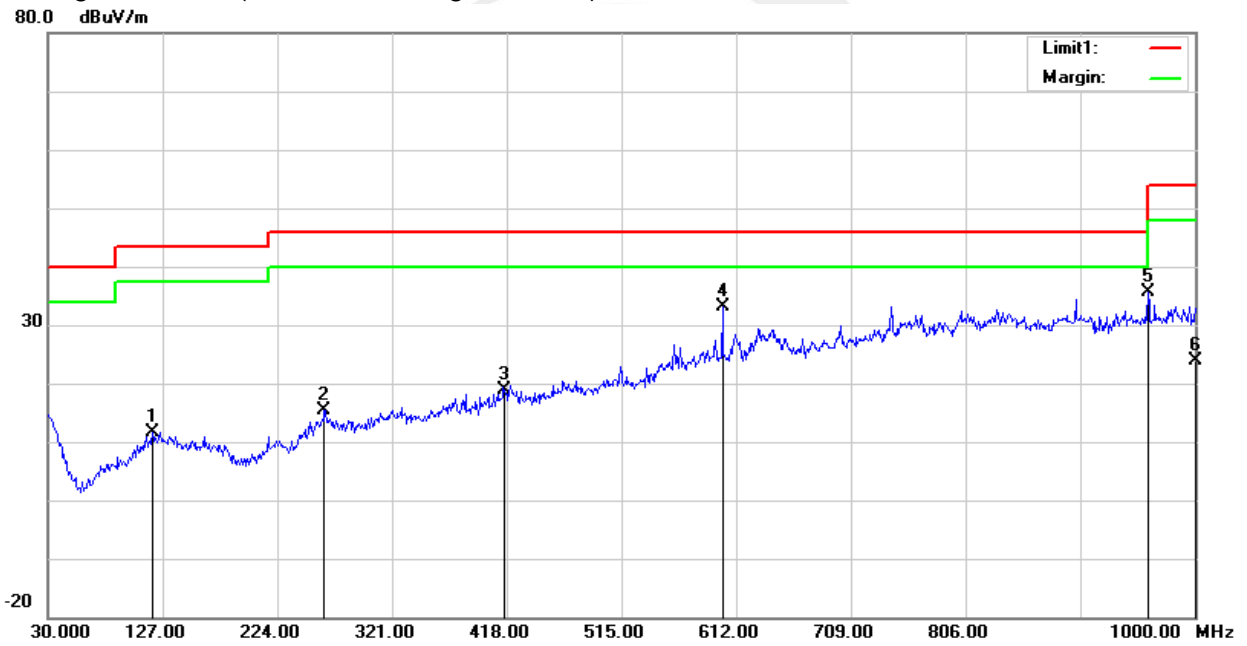


Temperature:	22.6(C)	Relative Humidity:	57%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	118.2700	30.17	-18.43	11.74	43.50	-31.76	peak
2	263.7700	30.10	-14.75	15.35	46.00	-30.65	peak
3	416.0600	29.16	-10.28	18.88	46.00	-27.12	peak
4	600.3600	39.03	-5.84	33.19	46.00	-12.81	peak
5	960.2300	33.86	1.76	35.62	54.00	-18.38	peak
6	1000.0000	21.77	2.04	23.81	54.00	-30.19	AVG

Remark:.

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





## (1000MHz-25GHz) Spurious emission Requirements

## 802.11 n(HT20)

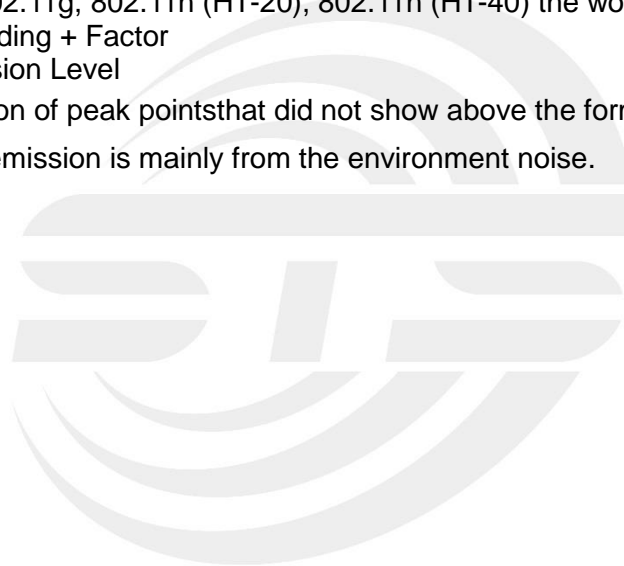
Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Orrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11n20/2412 MHz)										
3264.67	61.13	44.70	6.70	28.20	-9.80	51.33	74.00	-22.67	PK	Vertical
3264.67	51.19	44.70	6.70	28.20	-9.80	41.39	54.00	-12.61	AV	Vertical
3264.62	61.71	44.70	6.70	28.20	-9.80	51.91	74.00	-22.09	PK	Horizontal
3264.62	50.85	44.70	6.70	28.20	-9.80	41.05	54.00	-12.95	AV	Horizontal
4824.50	59.07	44.20	9.04	31.60	-3.56	55.51	74.00	-18.49	PK	Vertical
4824.50	50.04	44.20	9.04	31.60	-3.56	46.48	54.00	-7.52	AV	Vertical
4824.33	58.52	44.20	9.04	31.60	-3.56	54.96	74.00	-19.04	PK	Horizontal
4824.33	50.12	44.20	9.04	31.60	-3.56	46.56	54.00	-7.44	AV	Horizontal
5359.78	48.48	44.20	9.86	32.00	-2.34	46.14	74.00	-27.86	PK	Vertical
5359.78	40.30	44.20	9.86	32.00	-2.34	37.96	54.00	-16.04	AV	Vertical
5359.72	47.33	44.20	9.86	32.00	-2.34	44.99	74.00	-29.01	PK	Horizontal
5359.72	38.41	44.20	9.86	32.00	-2.34	36.07	54.00	-17.93	AV	Horizontal
7235.68	54.96	43.50	11.40	35.50	3.40	58.36	74.00	-15.64	PK	Vertical
7235.68	44.36	43.50	11.40	35.50	3.40	47.76	54.00	-6.24	AV	Vertical
7235.91	54.04	43.50	11.40	35.50	3.40	57.44	74.00	-16.56	PK	Horizontal
7235.88	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Horizontal
Middle Channel (802.11n20/2437 MHz)										
3264.79	61.64	44.70	6.70	28.20	-9.80	51.84	74.00	-22.16	PK	Vertical
3264.79	50.97	44.70	6.70	28.20	-9.80	41.17	54.00	-12.83	AV	Vertical
3264.77	61.07	44.70	6.70	28.20	-9.80	51.27	74.00	-22.73	PK	Horizontal
3264.77	51.27	44.70	6.70	28.20	-9.80	41.47	54.00	-12.53	AV	Horizontal
4874.35	58.20	44.20	9.04	31.60	-3.56	54.64	74.00	-19.36	PK	Vertical
4874.35	50.56	44.20	9.04	31.60	-3.56	47.00	54.00	-7.00	AV	Vertical
4874.32	58.77	44.20	9.04	31.60	-3.56	55.21	74.00	-18.79	PK	Horizontal
4874.32	49.78	44.20	9.04	31.60	-3.56	46.22	54.00	-7.78	AV	Horizontal
5359.63	48.76	44.20	9.86	32.00	-2.34	46.42	74.00	-27.58	PK	Vertical
5359.63	39.38	44.20	9.86	32.00	-2.34	37.04	54.00	-16.96	AV	Vertical
5359.65	47.91	44.20	9.86	32.00	-2.34	45.57	74.00	-28.43	PK	Horizontal
5359.65	38.86	44.20	9.86	32.00	-2.34	36.52	54.00	-17.48	AV	Horizontal
7310.77	54.14	43.50	11.40	35.50	3.40	57.54	74.00	-16.46	PK	Vertical
7310.77	44.58	43.50	11.40	35.50	3.40	47.98	54.00	-6.02	AV	Vertical
7310.77	54.11	43.50	11.40	35.50	3.40	57.51	74.00	-16.49	PK	Horizontal
7310.77	44.13	43.50	11.40	35.50	3.40	47.53	54.00	-6.47	AV	Horizontal



High Channel (802.11n20/2462 MHz)										
3264.80	61.70	44.70	6.70	28.20	-9.80	51.90	74.00	-22.10	PK	Vertical
3264.80	51.59	44.70	6.70	28.20	-9.80	41.79	54.00	-12.21	AV	Vertical
3264.84	61.49	44.70	6.70	28.20	-9.80	51.69	74.00	-22.31	PK	Horizontal
3264.84	51.31	44.70	6.70	28.20	-9.80	41.51	54.00	-12.49	AV	Horizontal
4924.55	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Vertical
4924.55	50.26	44.20	9.04	31.60	-3.56	46.70	54.00	-7.30	AV	Vertical
4924.44	59.23	44.20	9.04	31.60	-3.56	55.67	74.00	-18.33	PK	Horizontal
4924.44	49.40	44.20	9.04	31.60	-3.56	45.84	54.00	-8.16	AV	Horizontal
5359.80	48.82	44.20	9.86	32.00	-2.34	46.48	74.00	-27.52	PK	Vertical
5359.80	39.66	44.20	9.86	32.00	-2.34	37.32	54.00	-16.68	AV	Vertical
5359.70	47.80	44.20	9.86	32.00	-2.34	45.46	74.00	-28.54	PK	Horizontal
5359.70	38.08	44.20	9.86	32.00	-2.34	35.74	54.00	-18.26	AV	Horizontal
7385.79	54.87	43.50	11.40	35.50	3.40	58.27	74.00	-15.73	PK	Vertical
7385.79	44.94	43.50	11.40	35.50	3.40	48.34	54.00	-5.66	AV	Vertical
7385.87	53.71	43.50	11.40	35.50	3.40	57.11	74.00	-16.89	PK	Horizontal
7385.87	44.71	43.50	11.40	35.50	3.40	48.11	54.00	-5.89	AV	Horizontal

## Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) the worst case is 802.11 n(HT20).  
Emission Level = Reading + Factor  
Margin = Limit - Emission Level
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

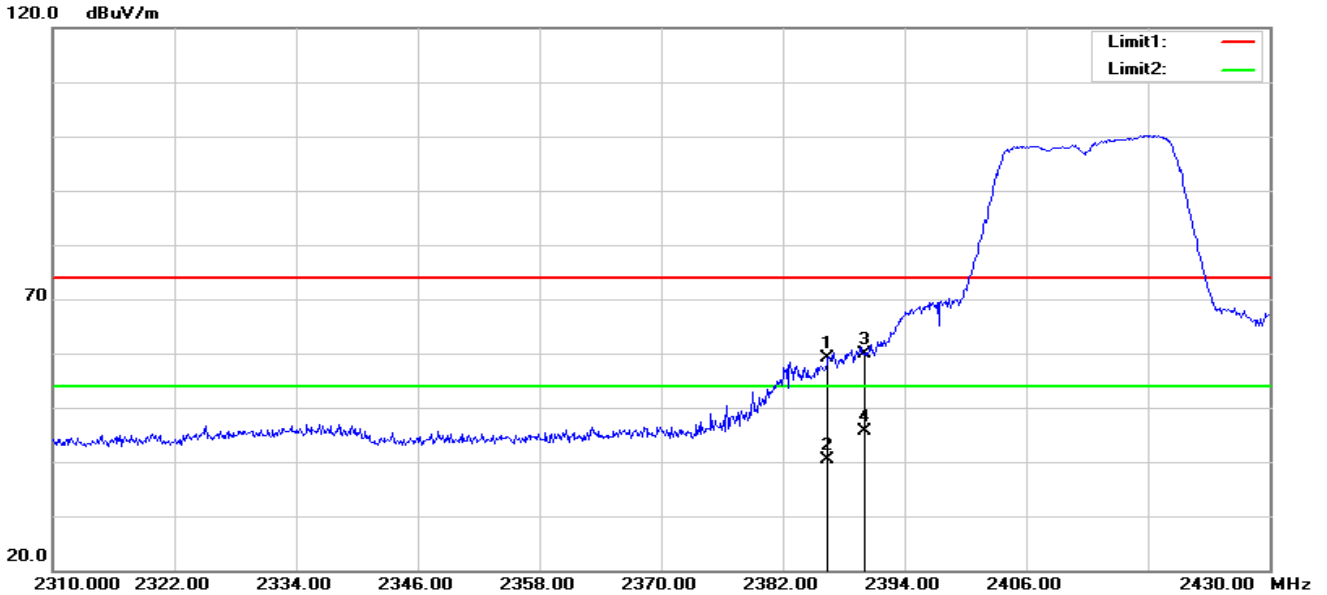




3.2.6 TEST RESULTS(Band edge Requirements)

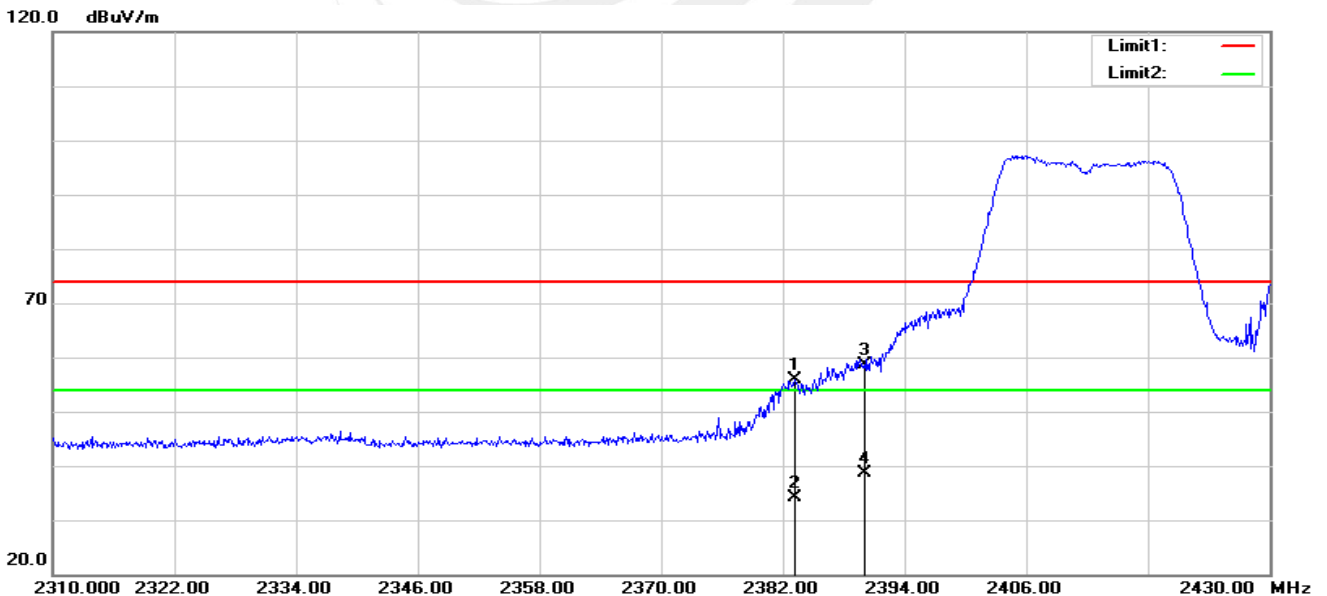
802.11 n(HT20)-Low

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.440	54.91	4.28	59.19	74.00	-14.81	peak
2	2386.440	36.12	4.28	40.40	54.00	-13.60	AVG
3	2390.000	55.63	4.34	59.97	74.00	-14.03	peak
4	2390.000	41.30	4.34	45.64	54.00	-8.36	AVG

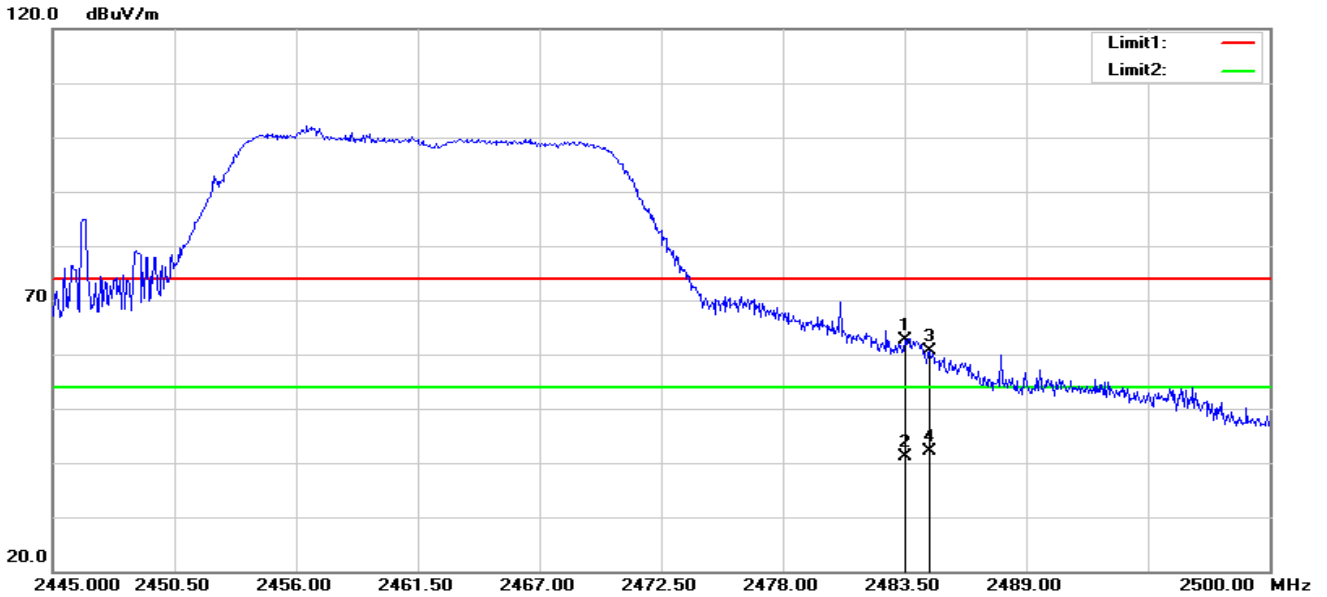
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.200	51.73	4.24	55.97	74.00	-18.03	peak
2	2383.200	29.90	4.24	34.14	54.00	-19.86	AVG
3	2390.000	54.20	4.34	58.54	74.00	-15.46	peak
4	2390.000	34.33	4.34	38.67	54.00	-15.33	AVG

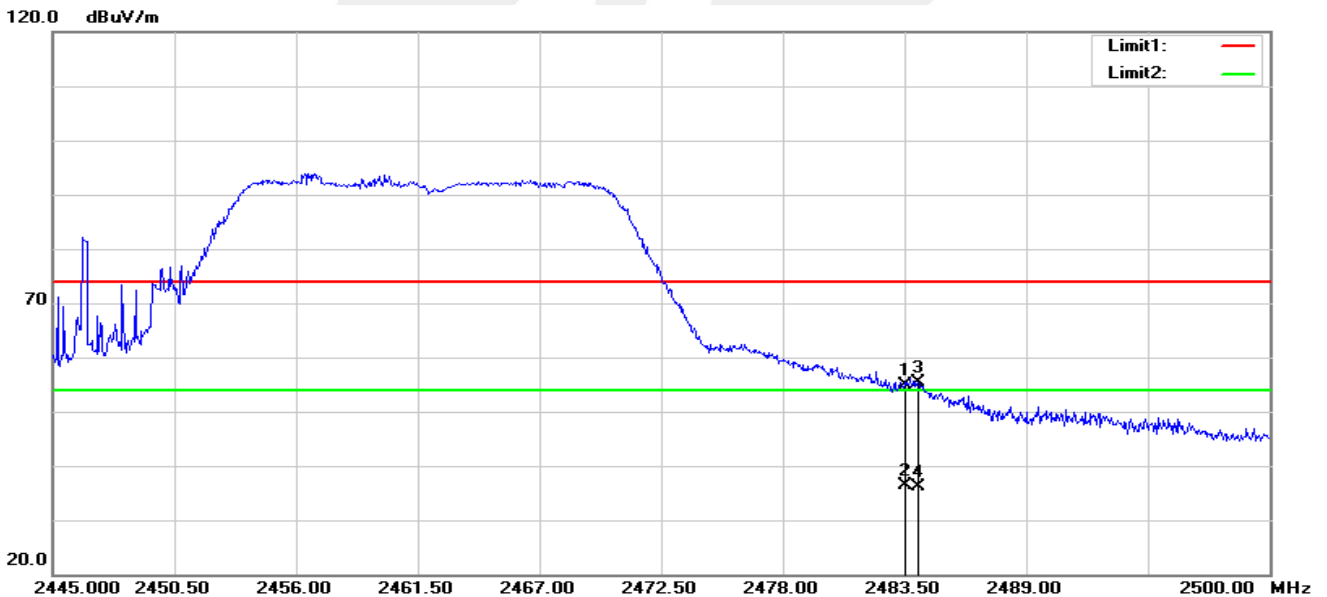


802.11 n(HT20)-High  
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.92	4.60	62.52	74.00	-11.48	peak
2	2483.500	36.56	4.60	41.16	54.00	-12.84	AVG
3	2484.600	55.93	4.61	60.54	74.00	-13.46	peak
4	2484.600	37.55	4.61	42.16	54.00	-11.84	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.34	4.60	54.94	74.00	-19.06	peak
2	2483.500	31.77	4.60	36.37	54.00	-17.63	AVG
3	2484.105	50.73	4.61	55.34	74.00	-18.66	peak
4	2484.105	31.59	4.61	36.20	54.00	-17.80	AVG

Note: 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) mode all have been tested, the worst case is 802.11 n(HT20), only show the worst case.

#### 4.CONDUCTED SPURIOUS & BAND EDGE EMISSION

##### 4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

##### 4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

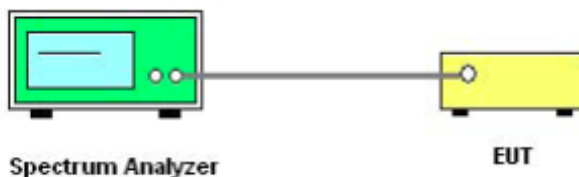
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

##### 4.3 DEVIATION FROM STANDARD

No deviation.

##### 4.4 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

##### 4.5 EUT OPERATION CONDITIONS

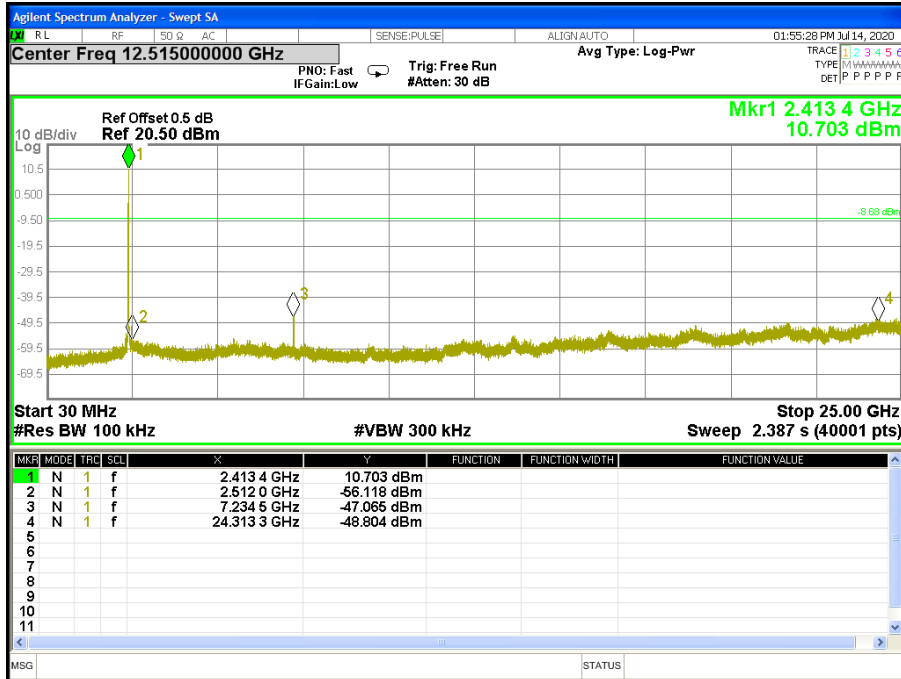
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



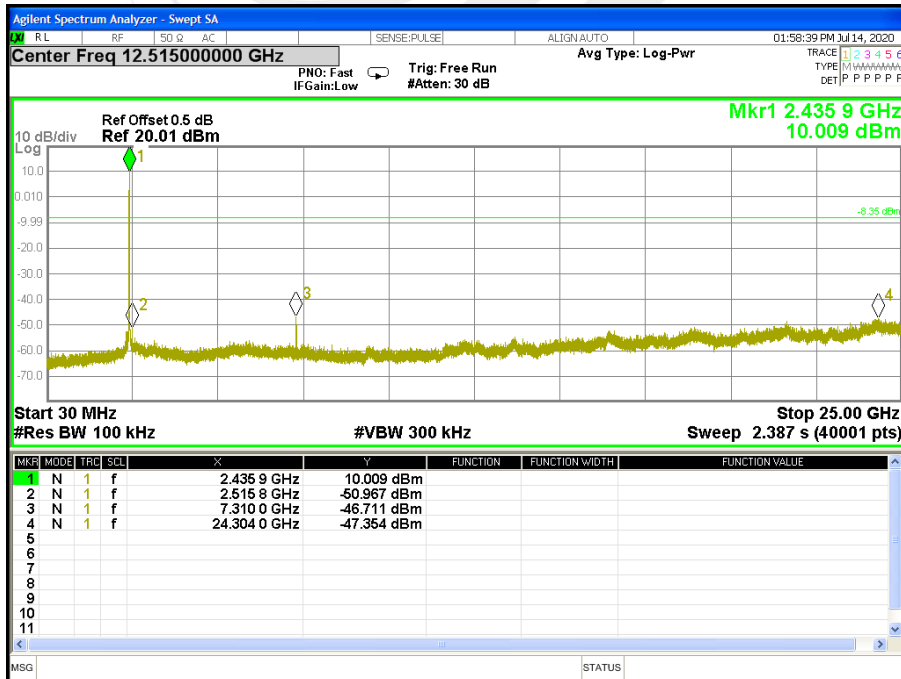
4.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01

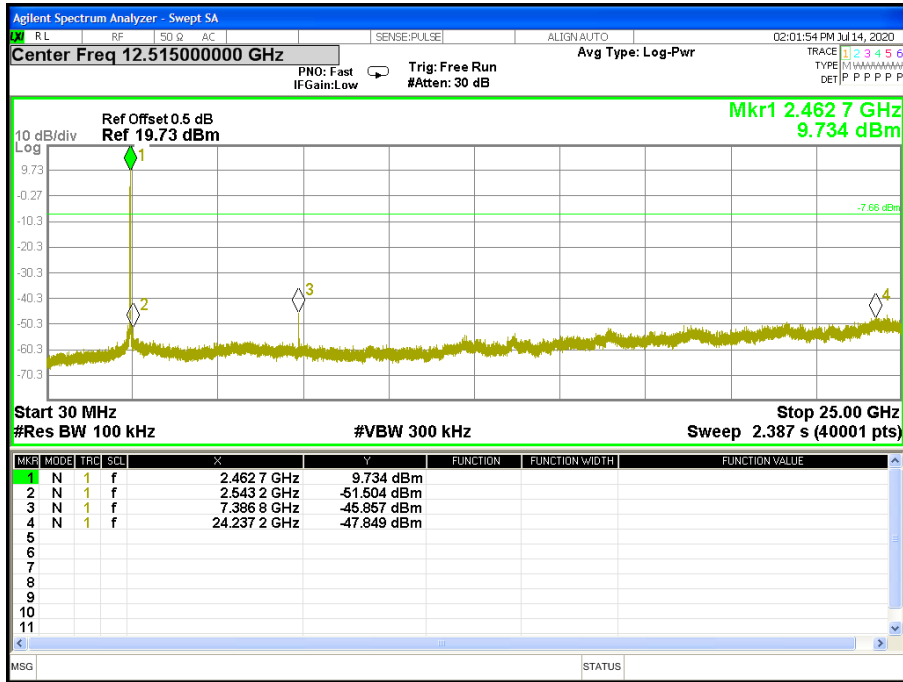


CH 06





CH 11

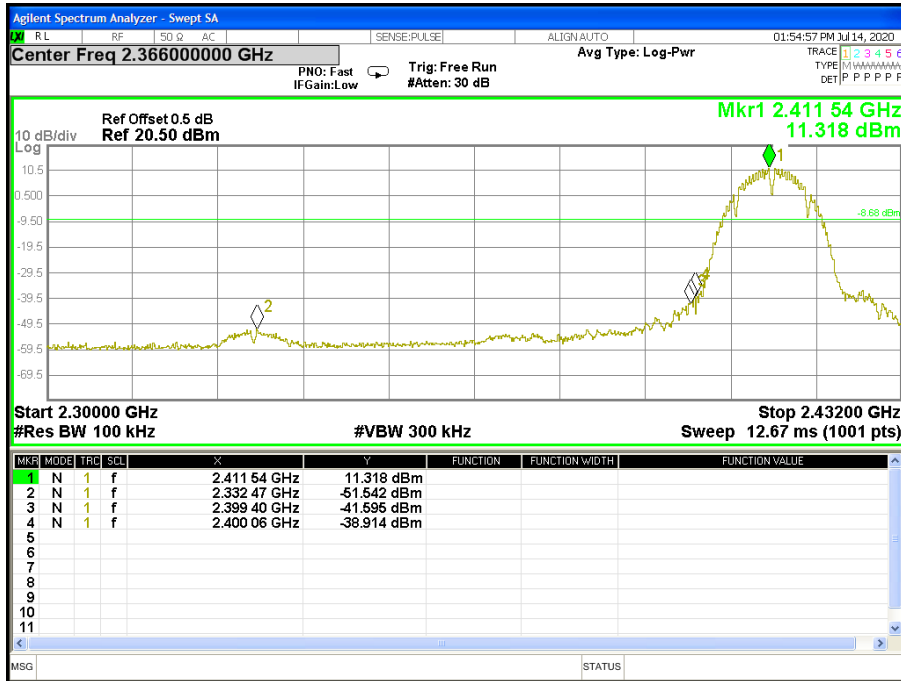




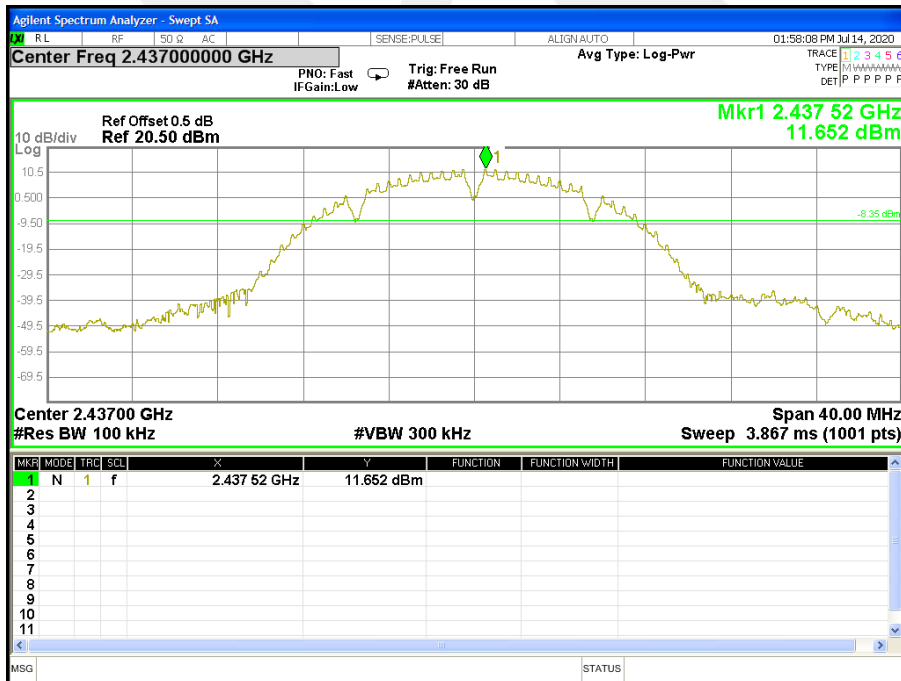


Band edge(it's also the reference level for conducted spurious emission)

CH 01

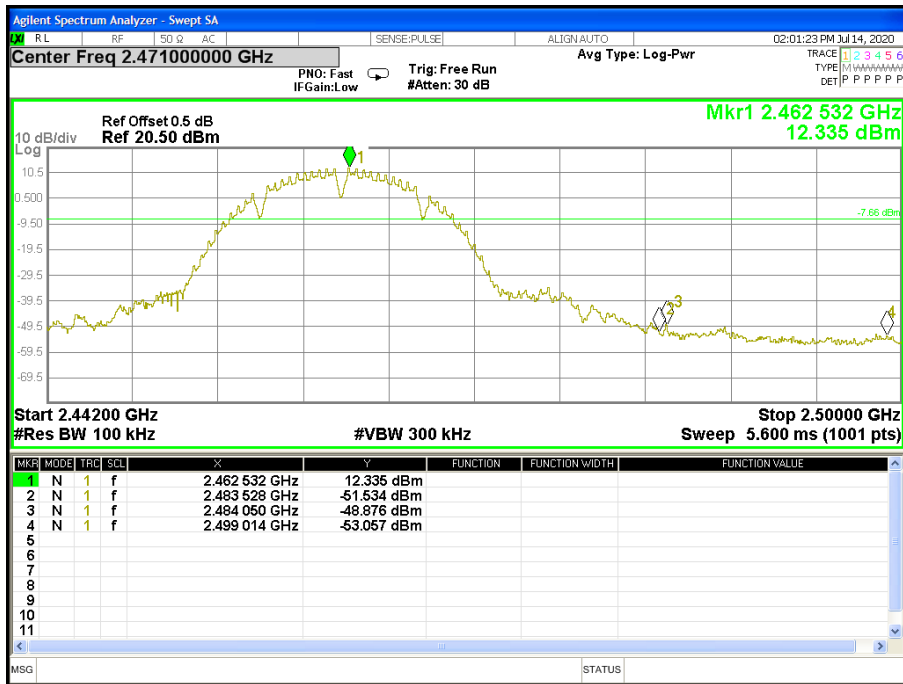


CH 06





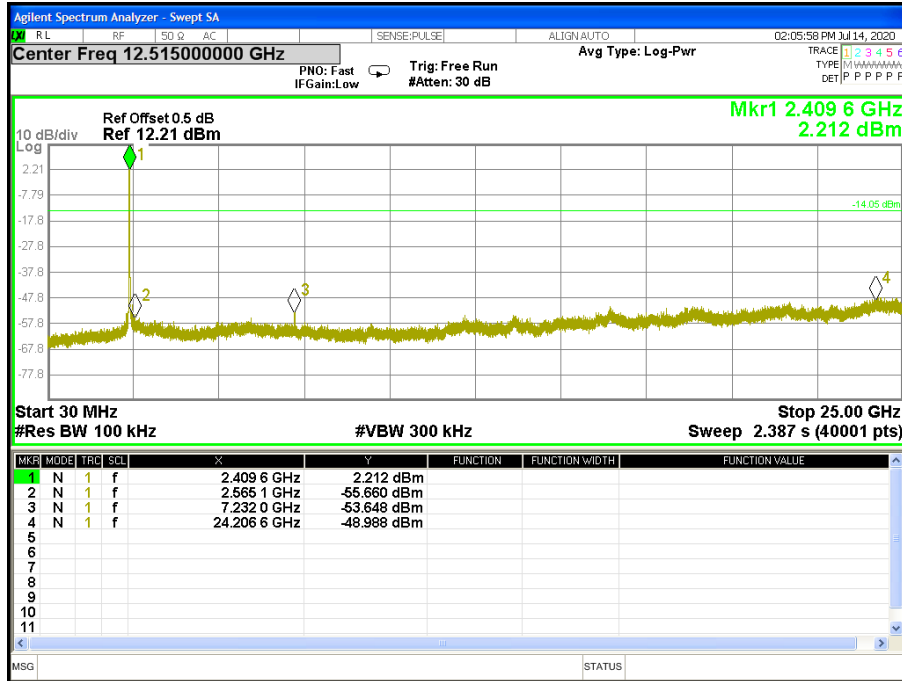
CH 11



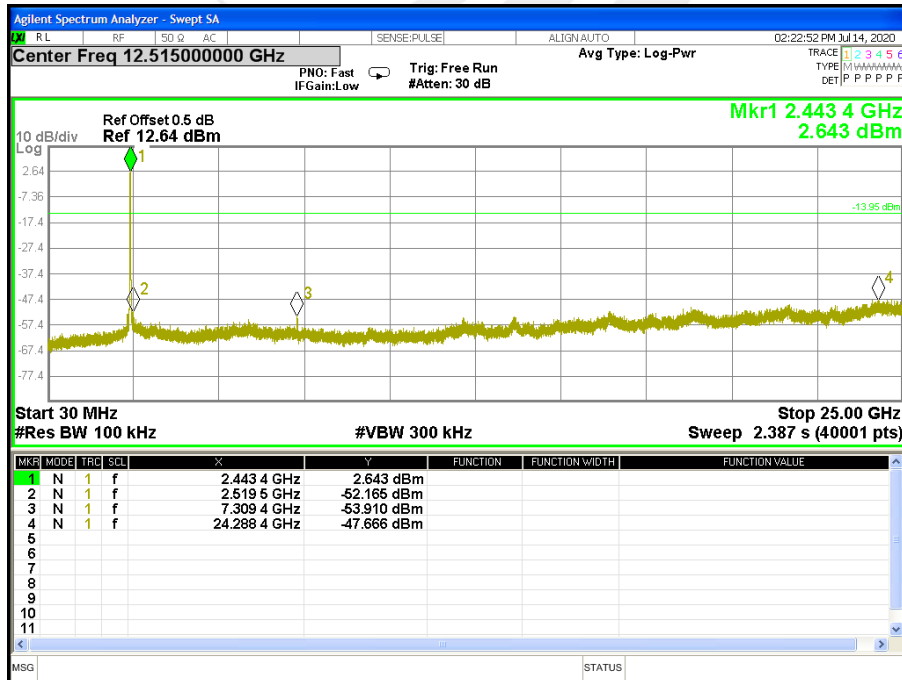


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

CH 01

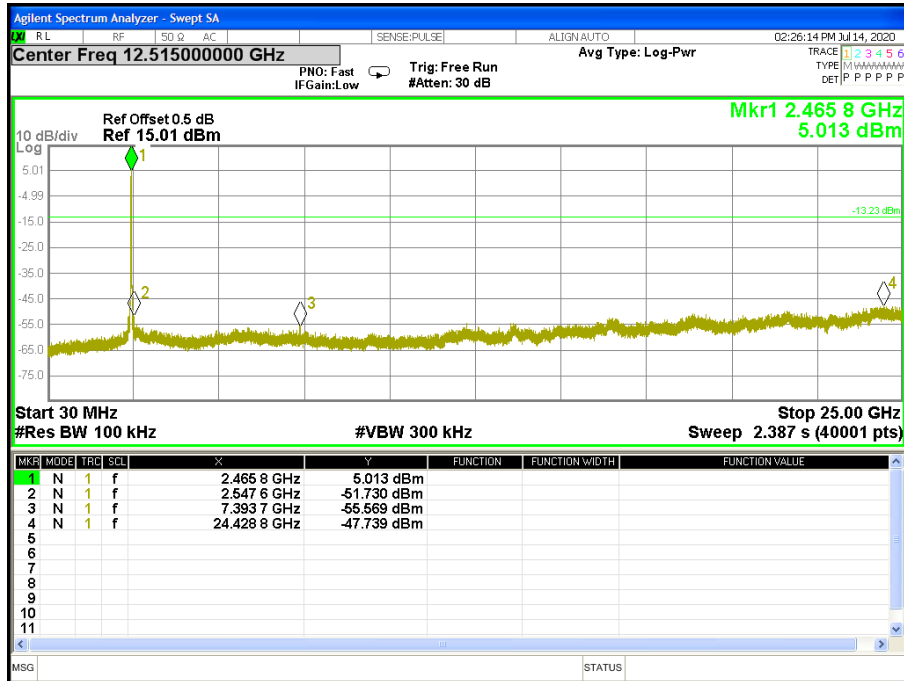


CH06





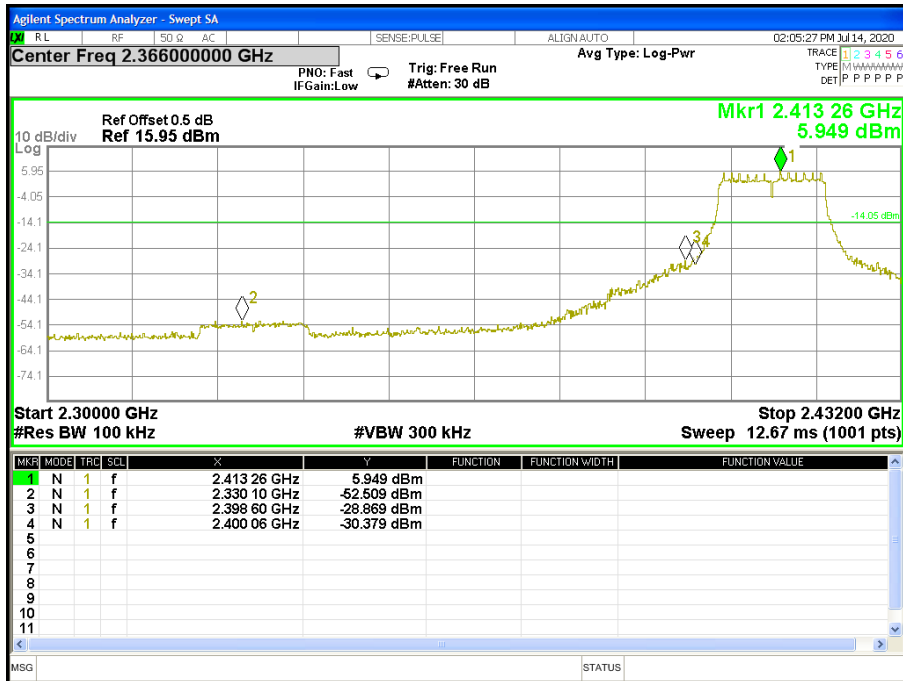
CH 11



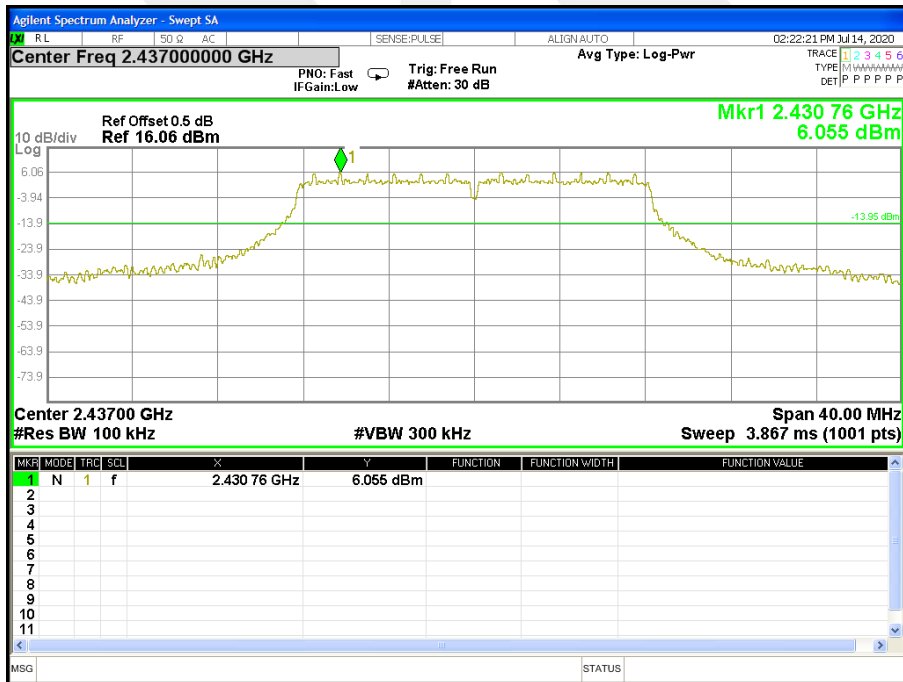


Band edge(it's also the reference level for conducted spurious emission)

CH 01

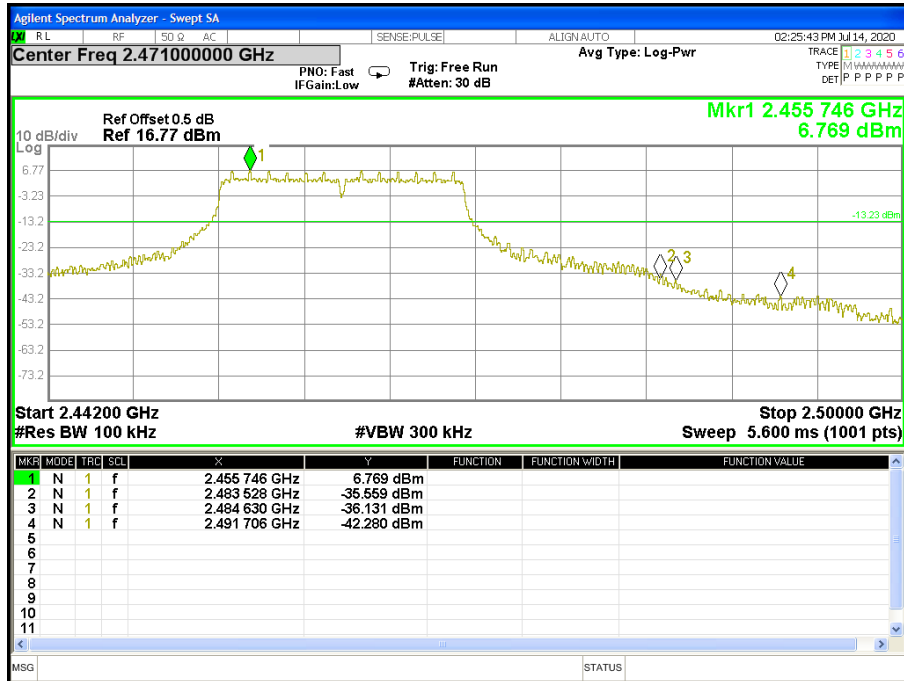


CH06





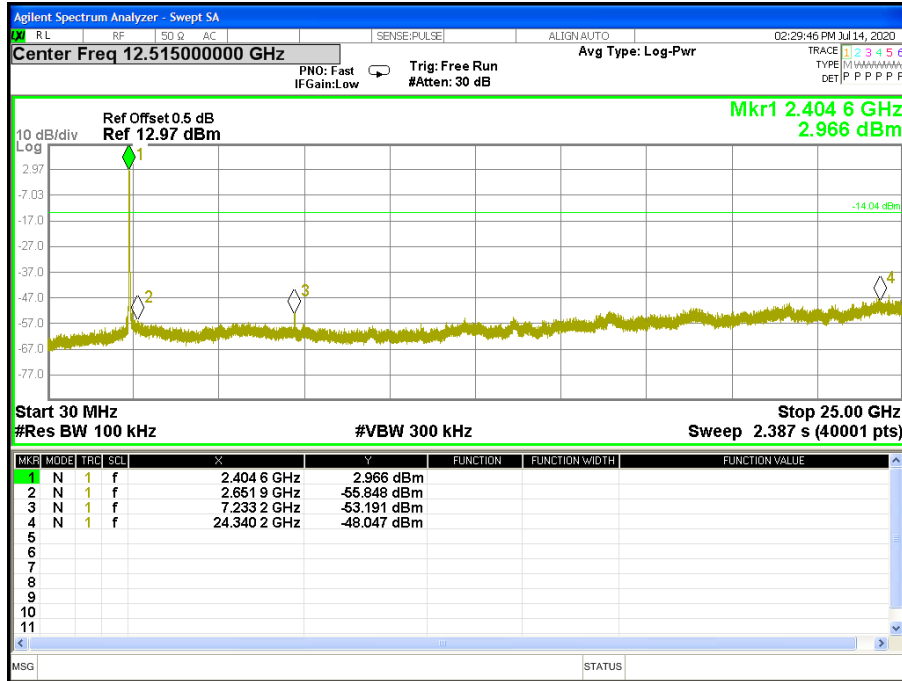
CH11



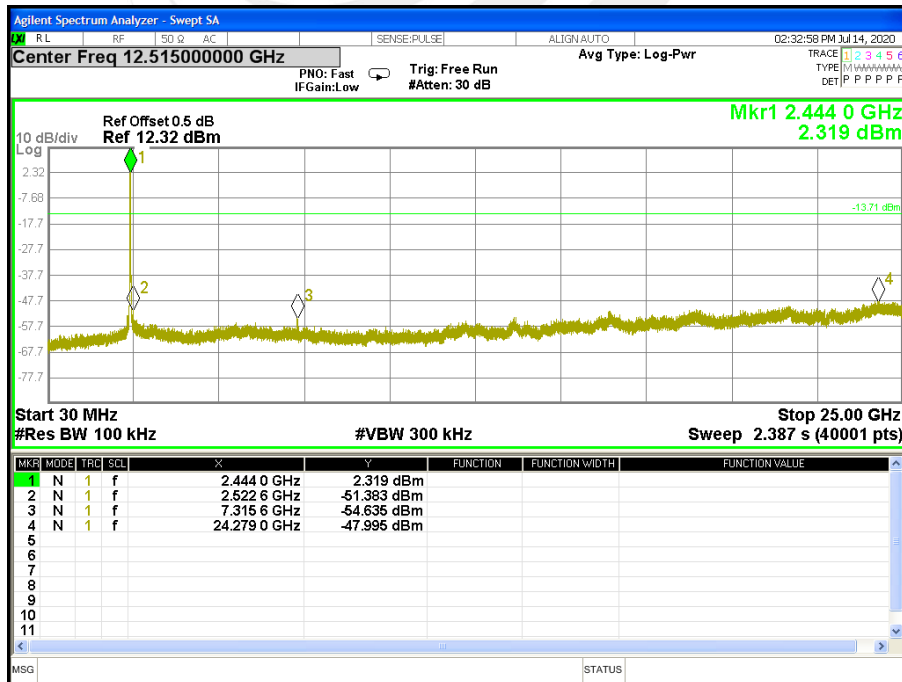


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

CH 01

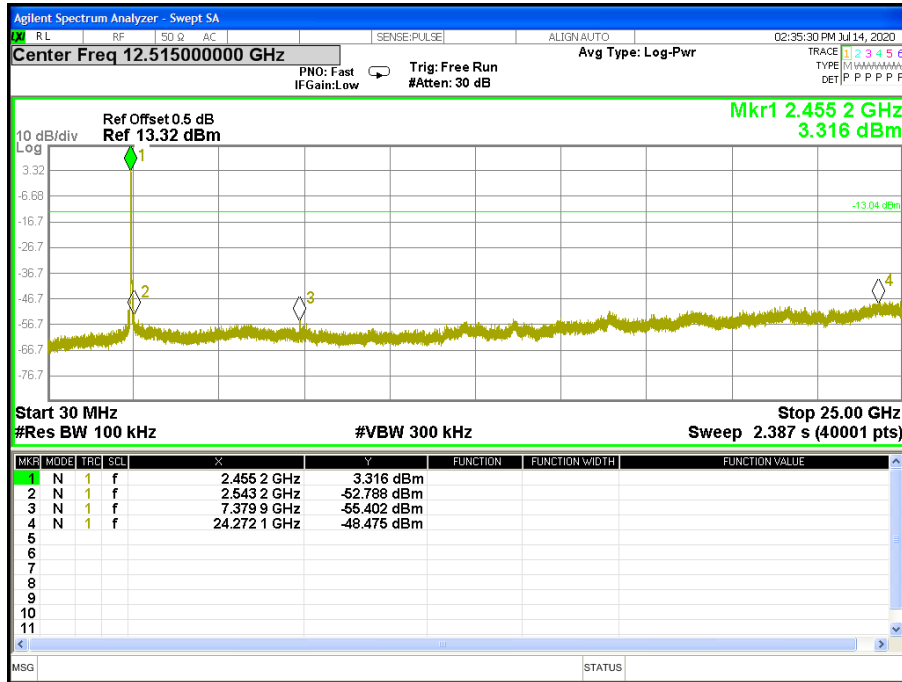


CH 06





CH 11

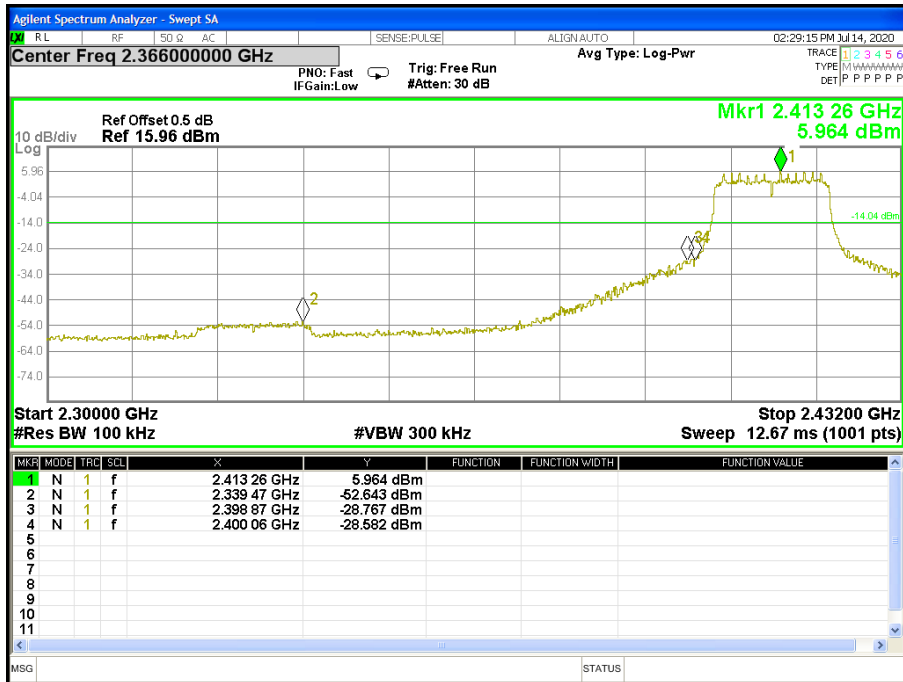




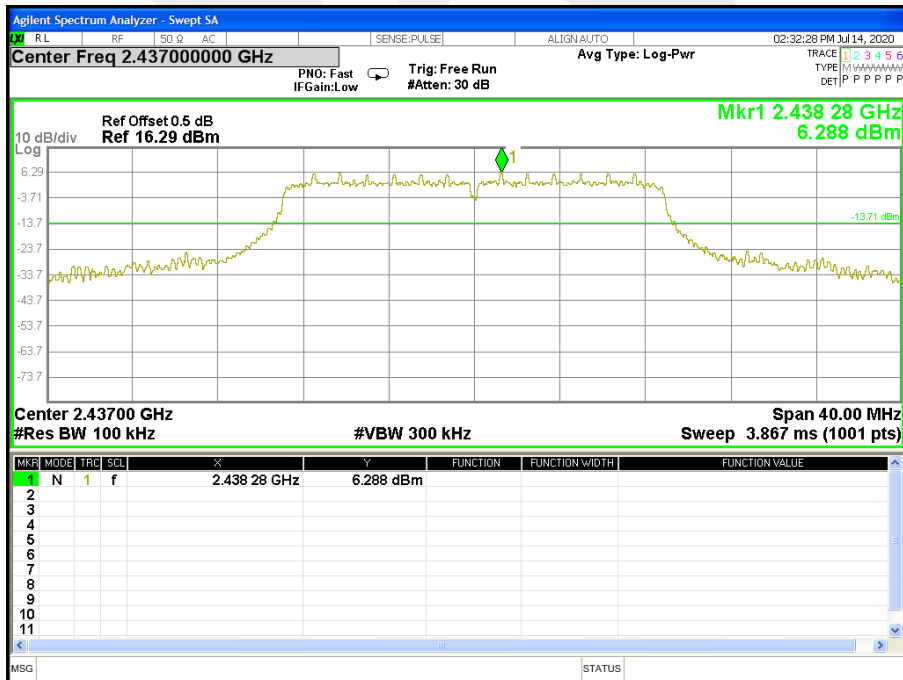


Band edge(it's also the reference level for conducted spurious emission)

CH 01

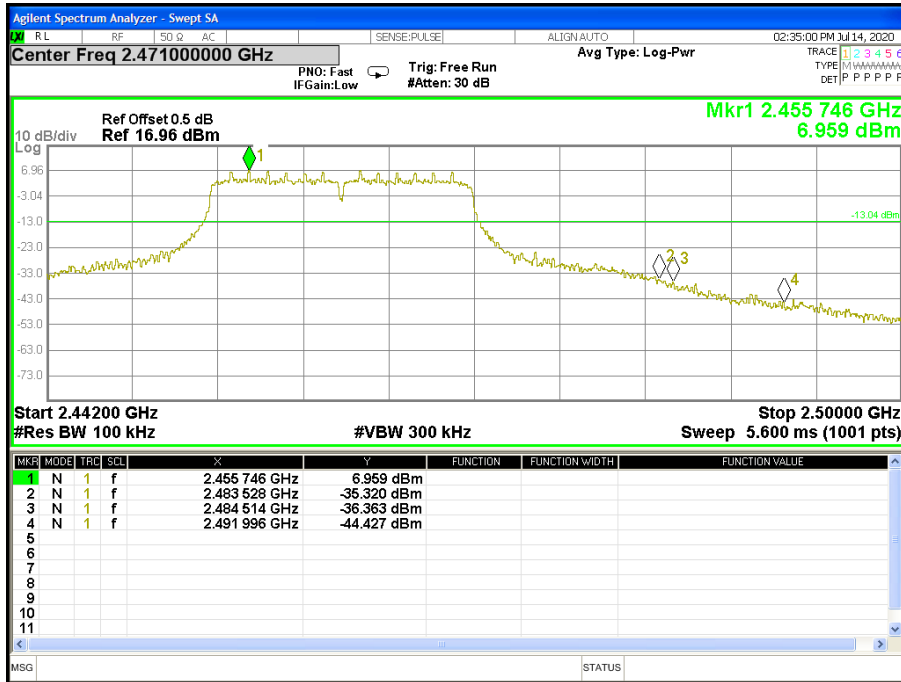


CH 06





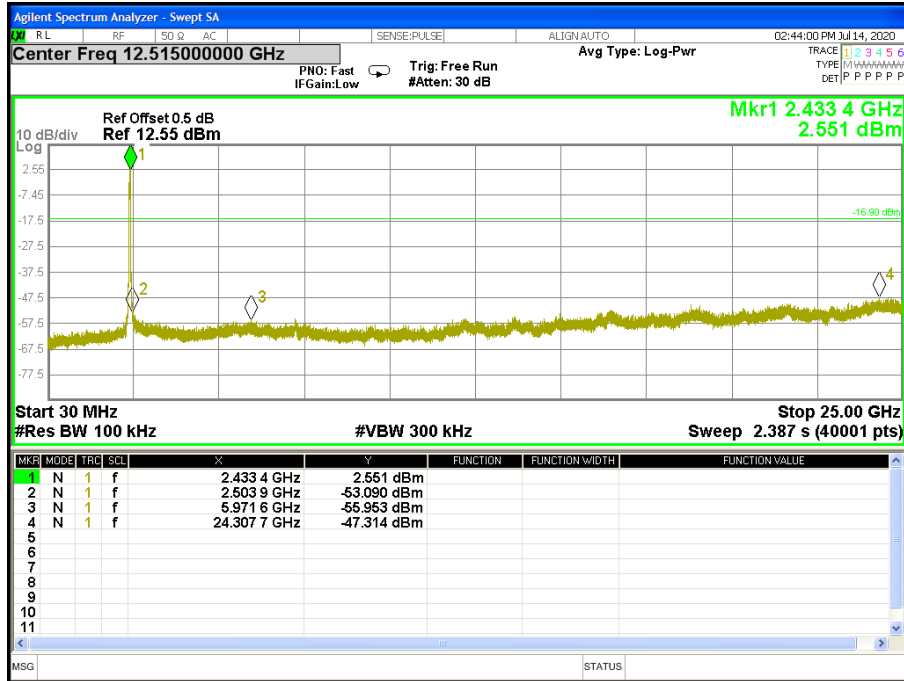
CH 11





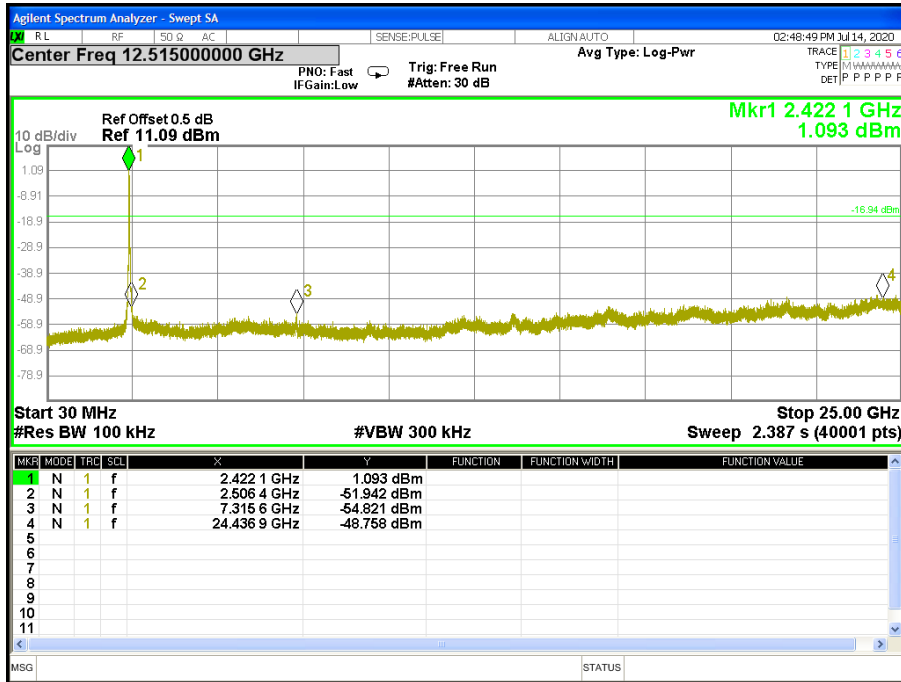
Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

CH 03

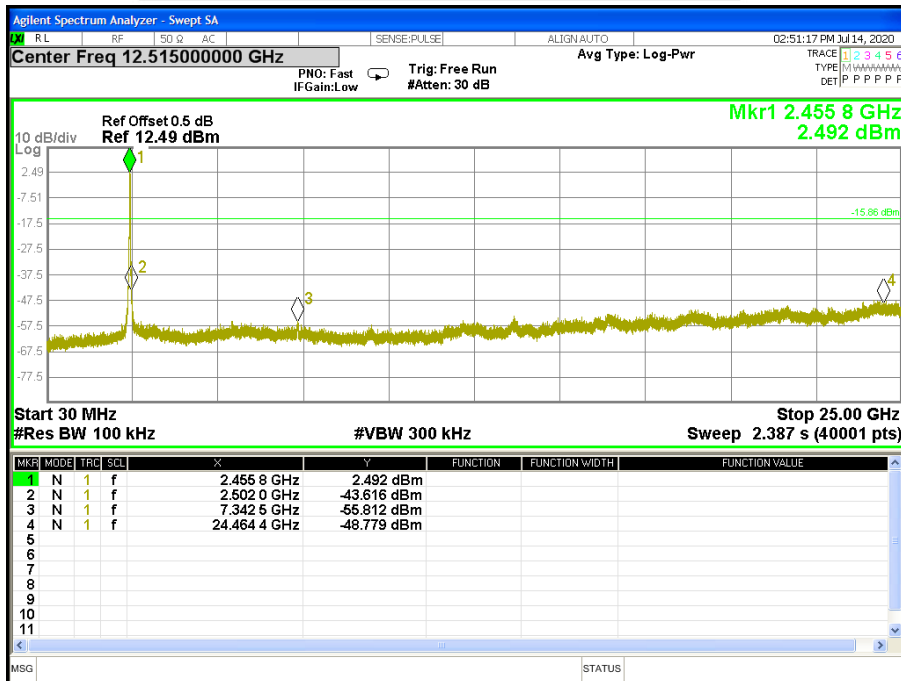




CH06



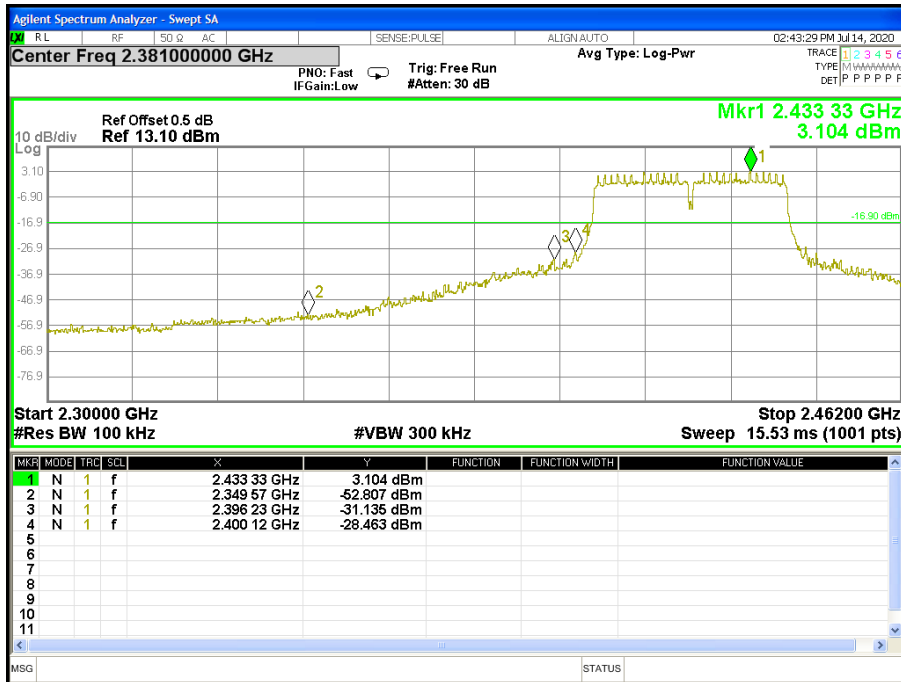
CH09



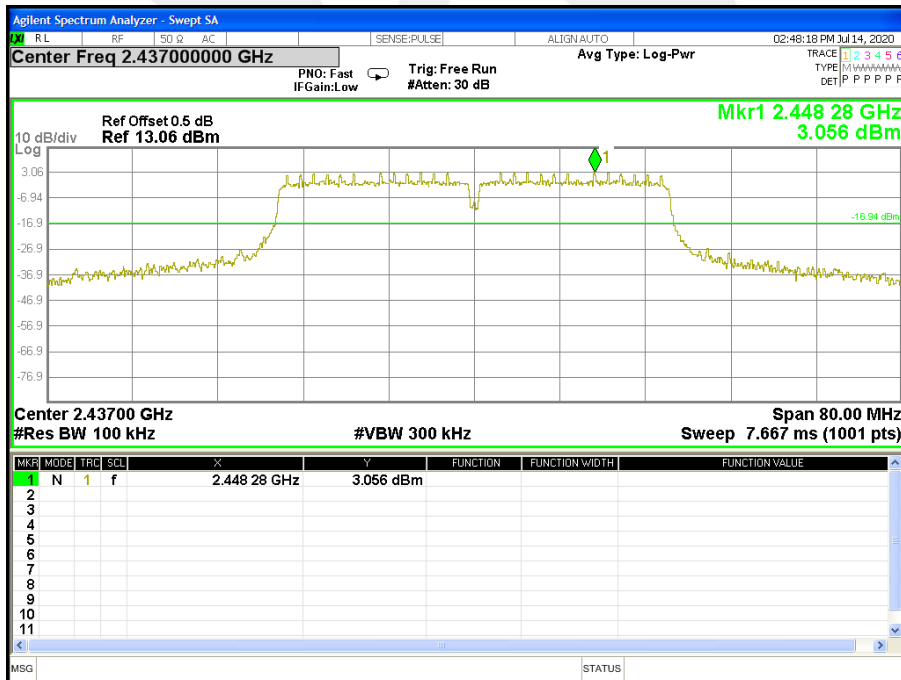


Band edge(it's also the reference level for conducted spurious emission)

CH03

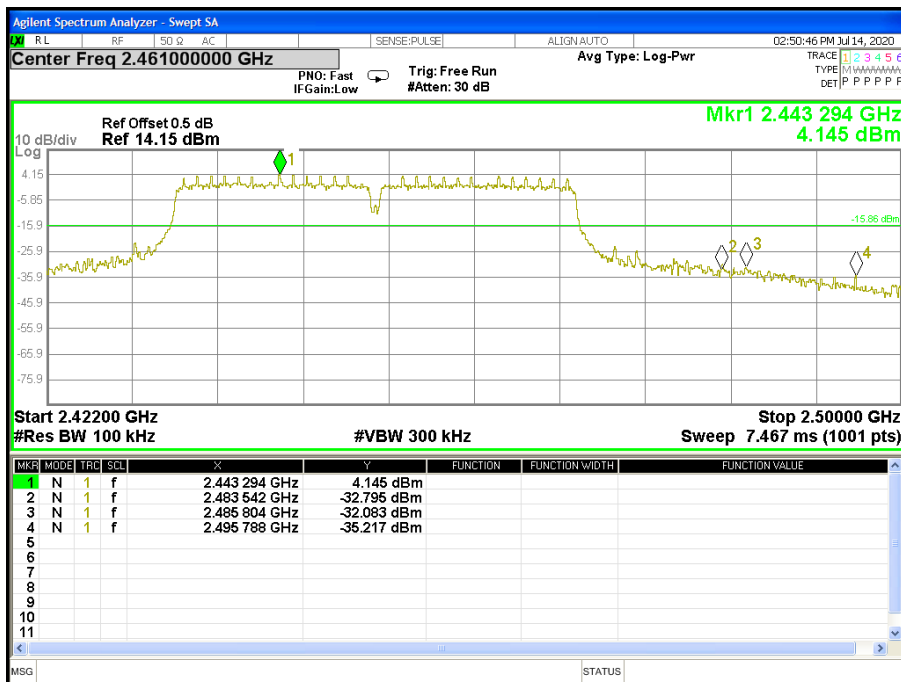


CH 06





CH 09





## 5. POWER SPECTRAL DENSITY TEST

### 5.1 LIMIT

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

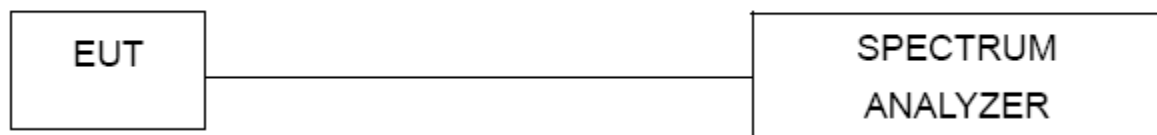
### 5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the  $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$ .
4. Set the  $\text{VBW} \geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

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

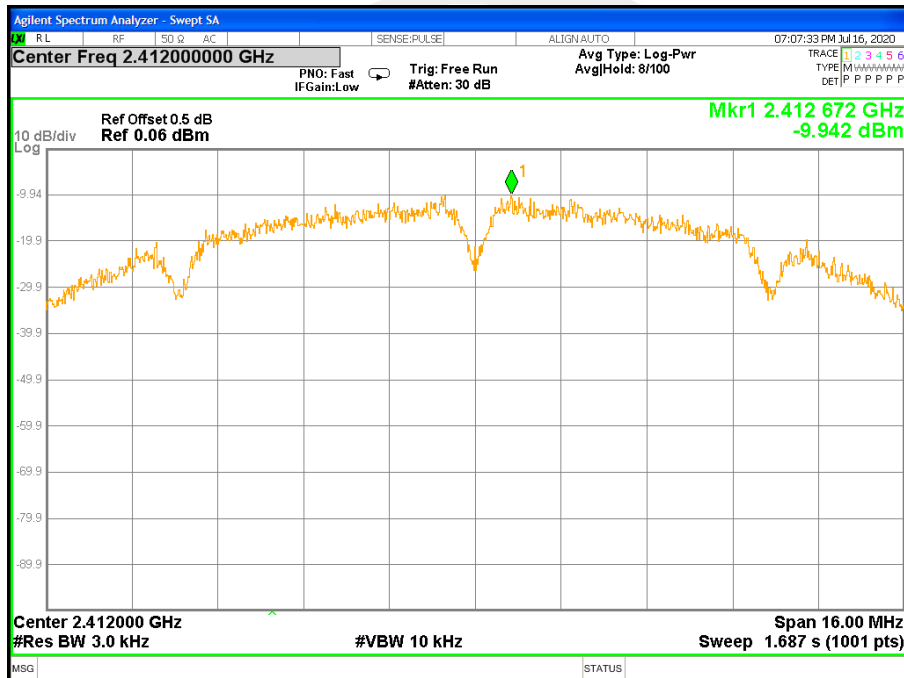


5.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-9.942	≤8	PASS
2437 MHz	-8.812	≤8	PASS
2462 MHz	-10.016	≤8	PASS

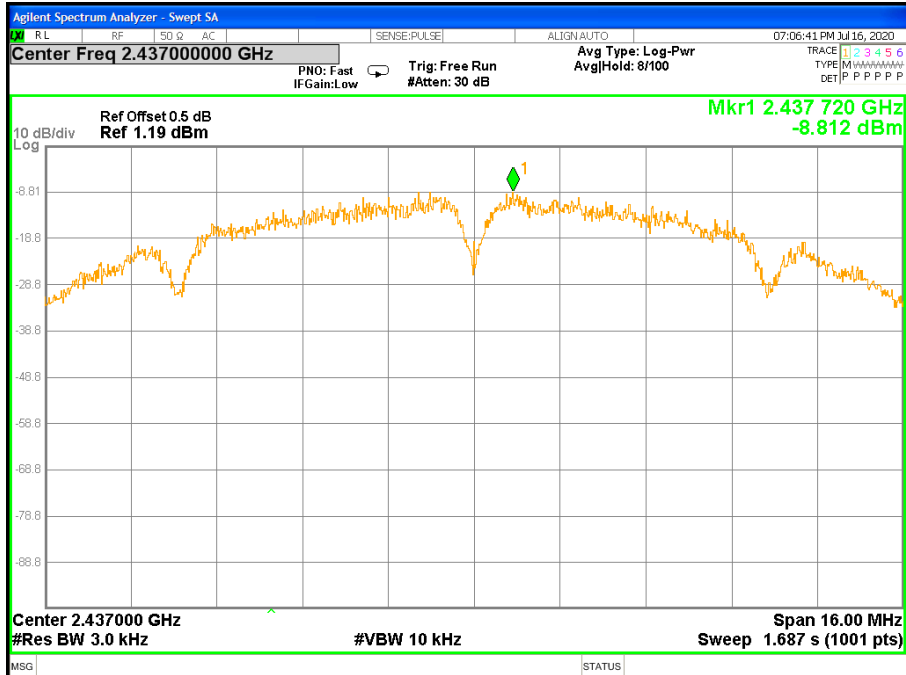
TX CH01



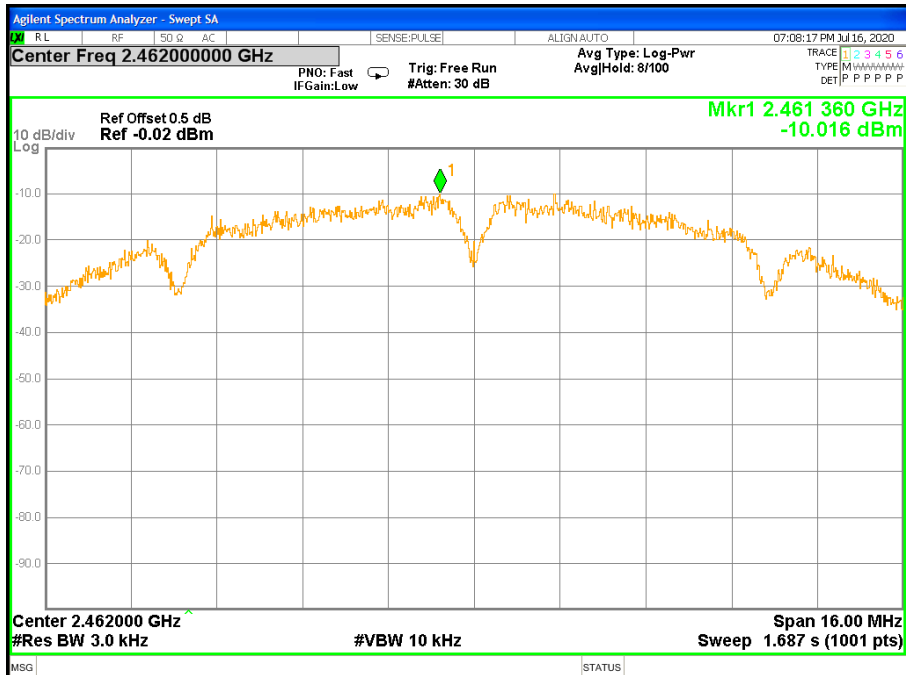




### TX CH06



### TX CH11

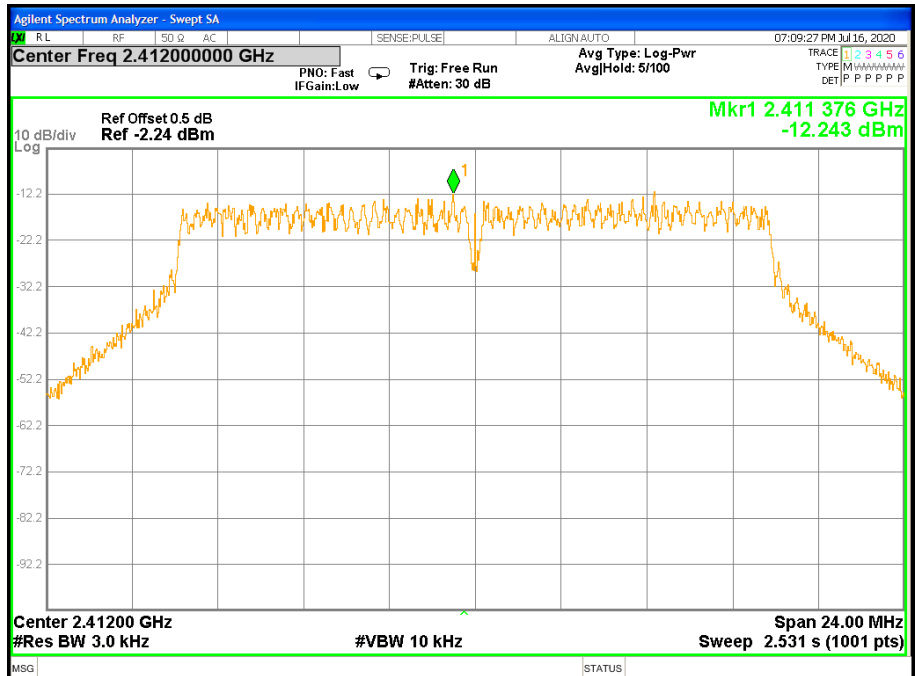




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

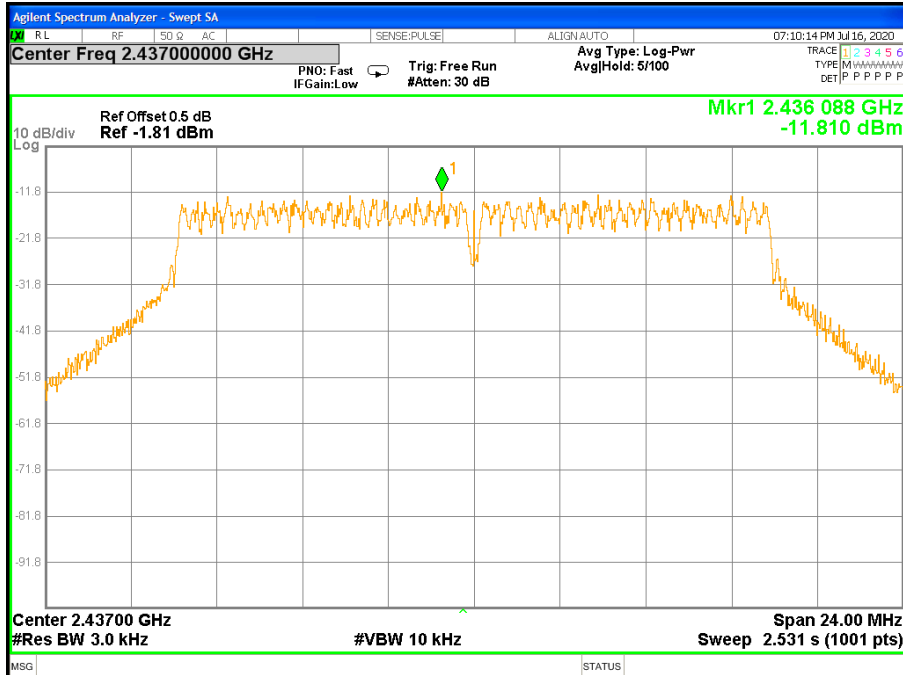
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-12.243	≤8	PASS
2437 MHz	-11.81	≤8	PASS
2462 MHz	-12.621	≤8	PASS

TX CH01

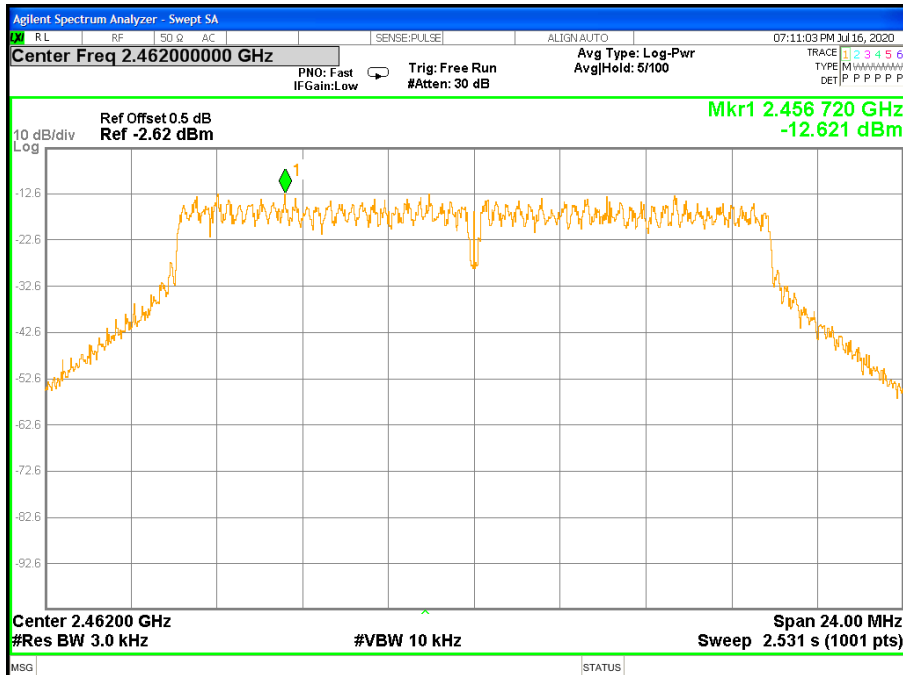




### TX CH06



### TX CH11

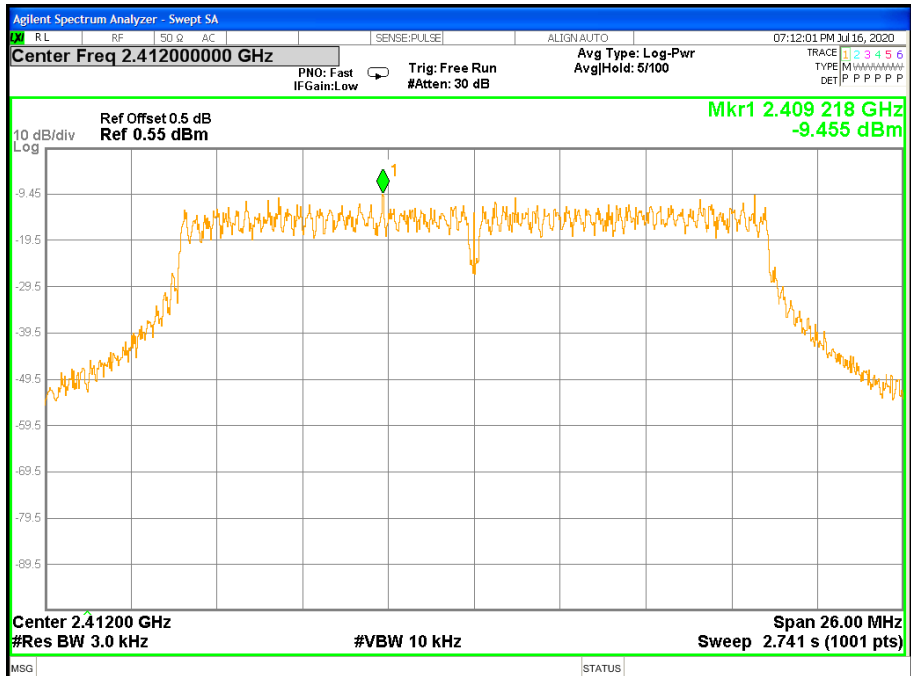




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

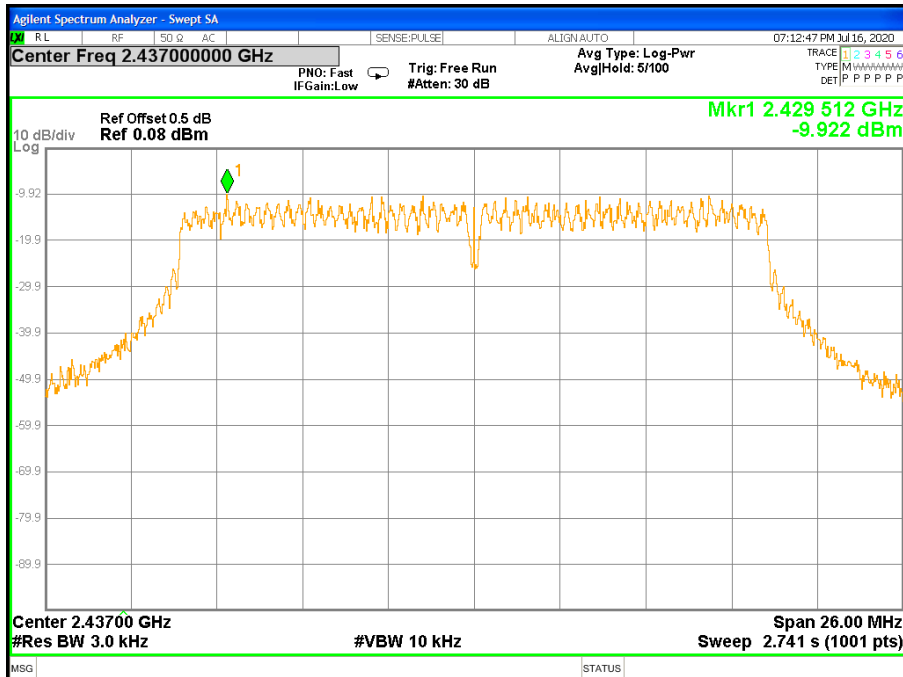
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-9.455	≤8	PASS
2437 MHz	-9.922	≤8	PASS
2462 MHz	-10.28	≤8	PASS

TX CH01

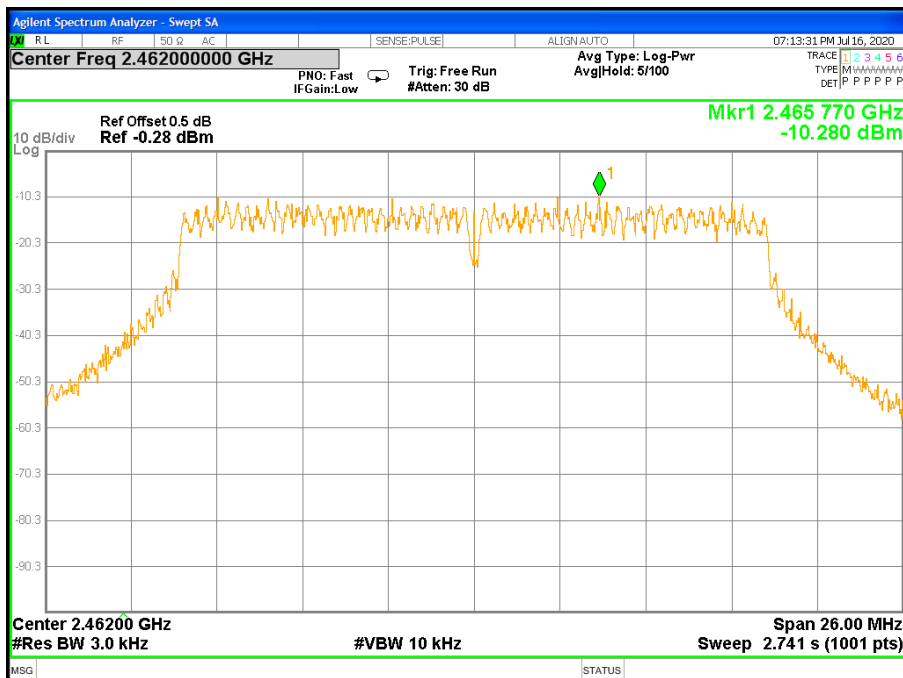




### TX CH06



### TX CH11

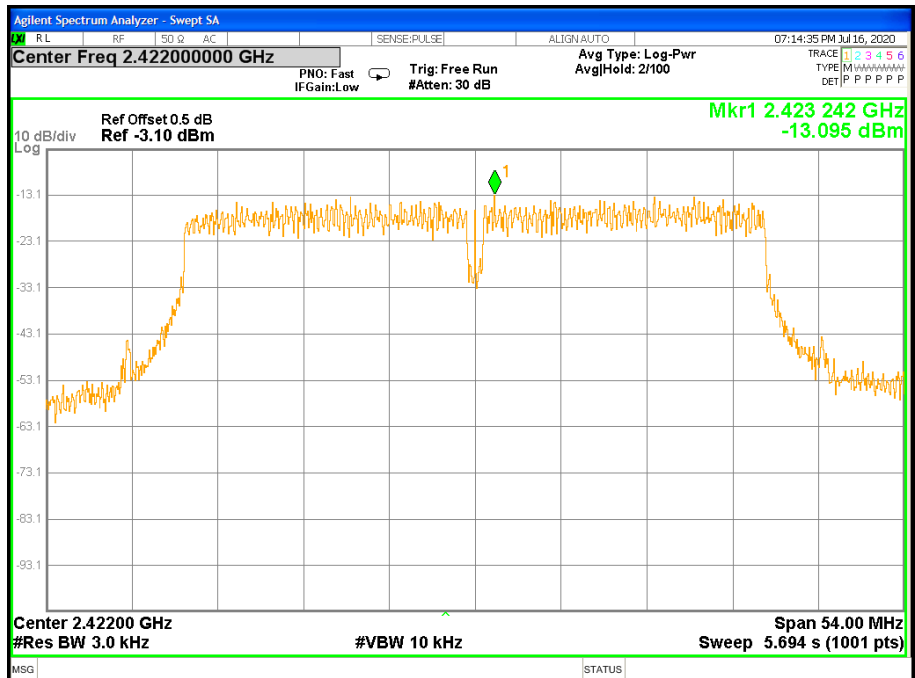




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

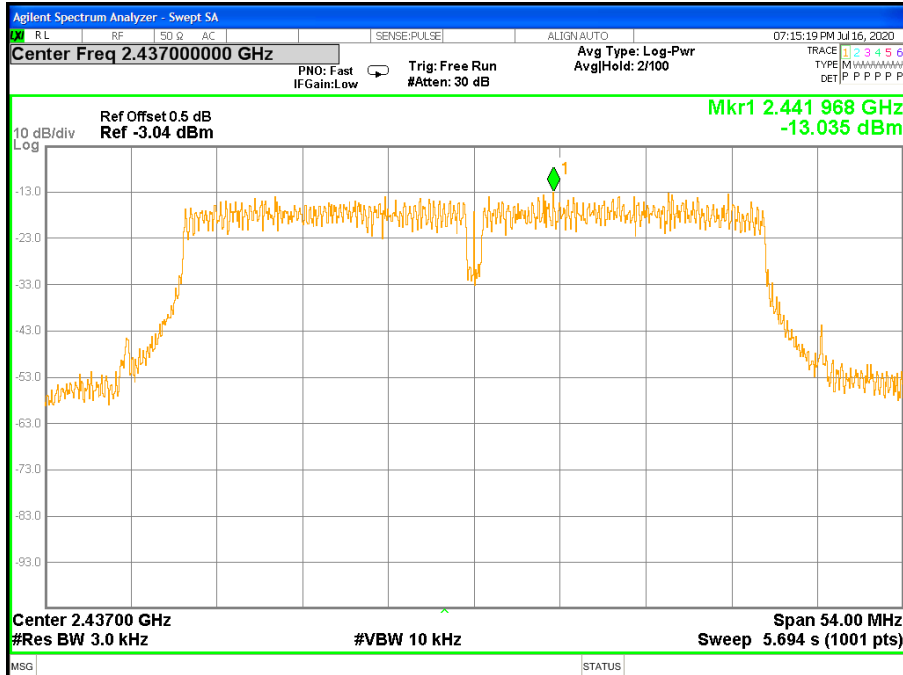
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2422 MHz	-13.095	≤8	PASS
2437 MHz	-13.035	≤8	PASS
2452 MHz	-12.215	≤8	PASS

TX CH03

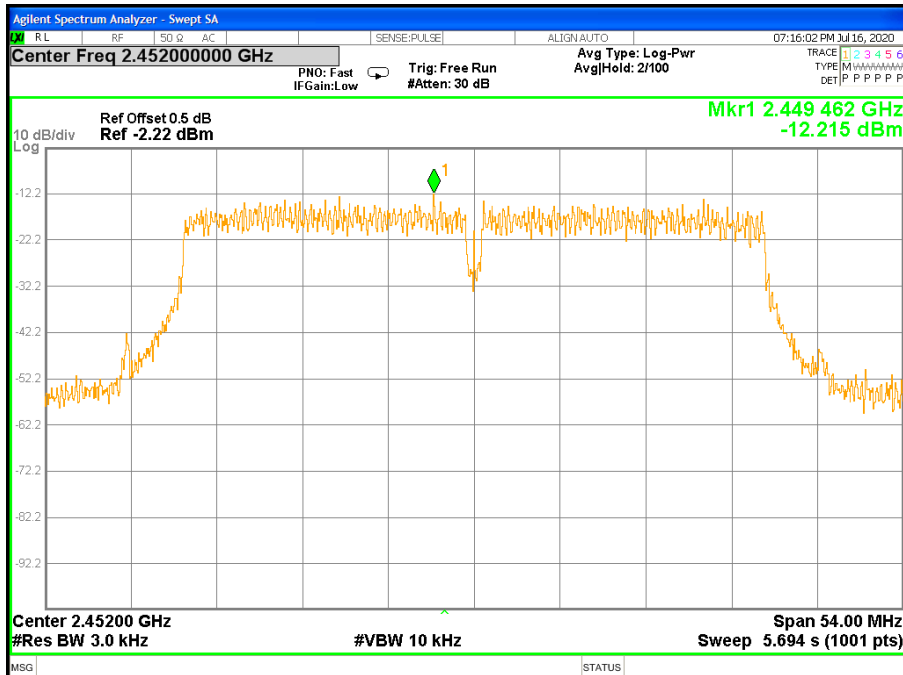




### TX CH06



### TX CH09





## 6. BANDWIDTH TEST

### 6.1 LIMIT

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

### 6.2 TEST PROCEDURE

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

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

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





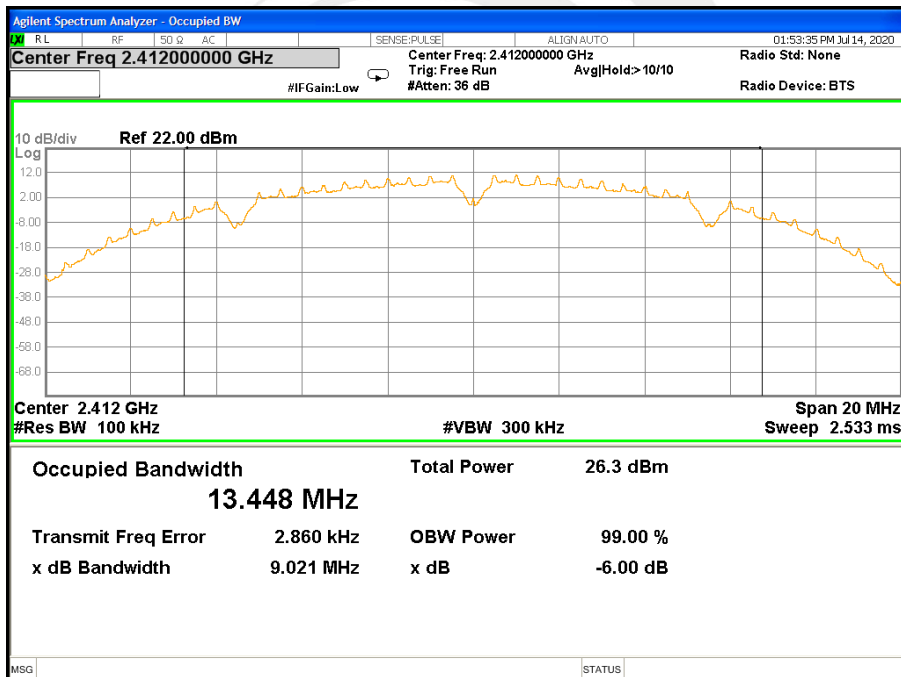
6.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

Remark: PEAK DETECTOR IS USED

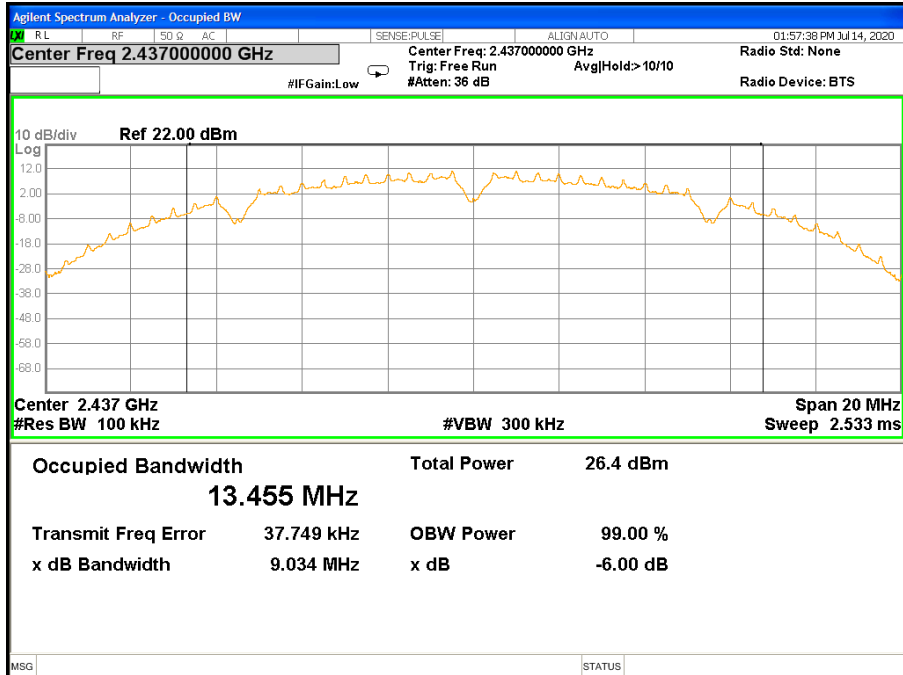
Frequency	6dB Bandwidth	Limit	Result
	(MHz)	(KHz)	
2412 MHz	9.021	≥500KHz	PASS
2437 MHz	9.034	≥500KHz	PASS
2462 MHz	9.048	≥500KHz	PASS

TX CH 01

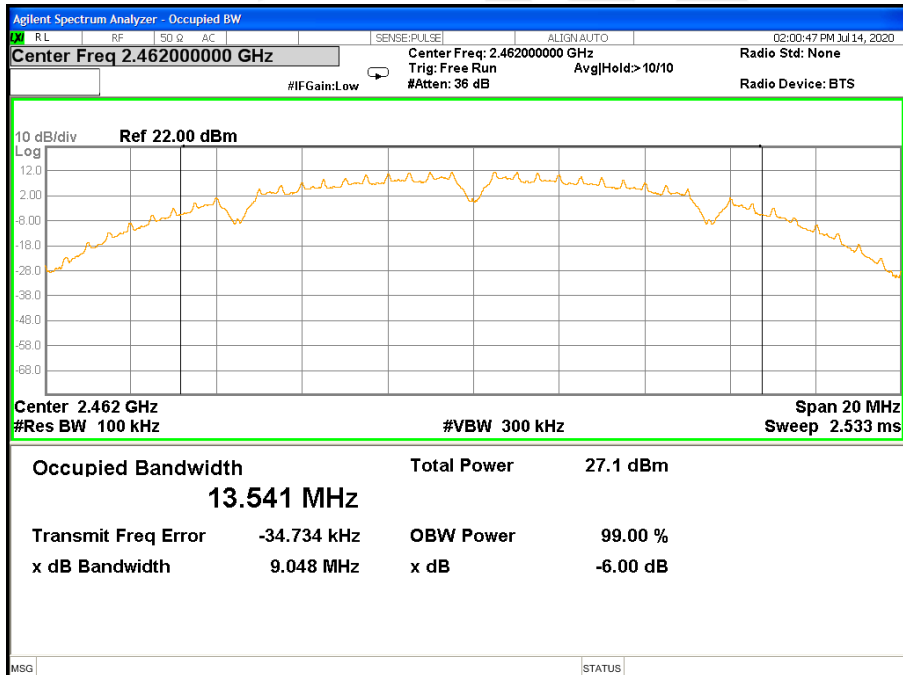




### TX CH 06



### TX CH 11

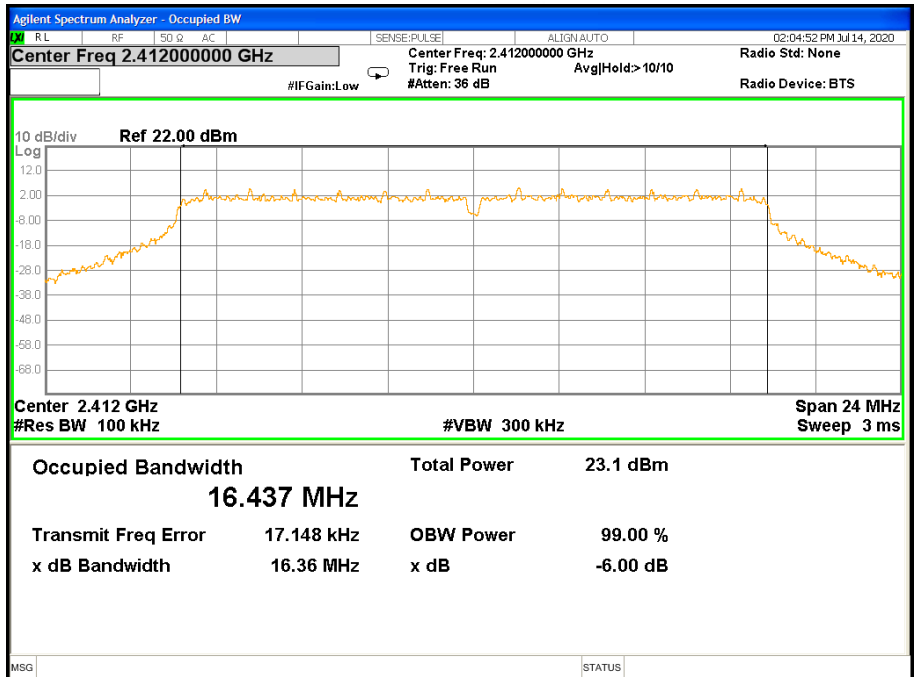




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

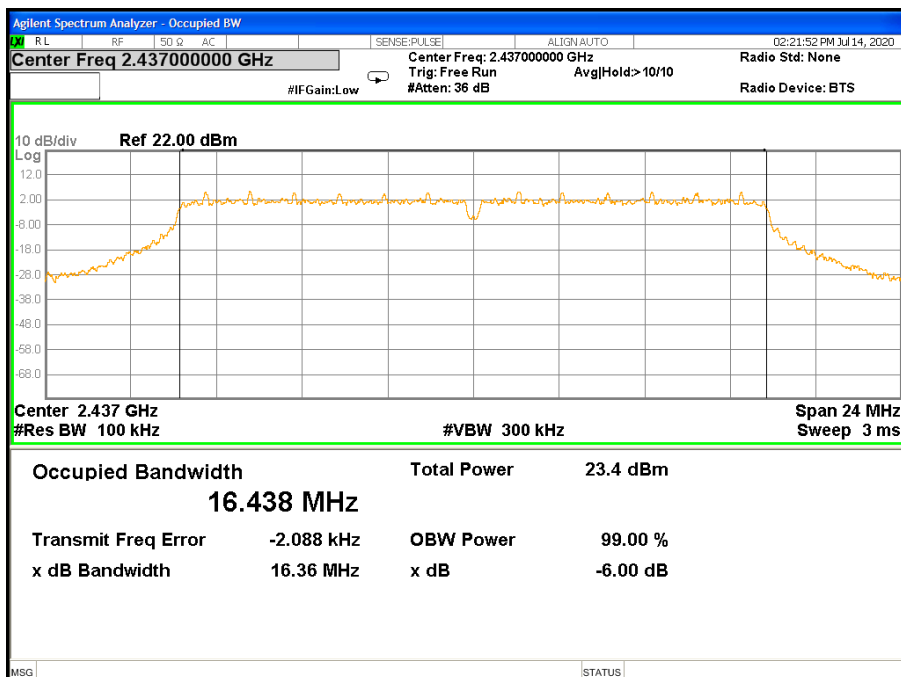
Frequency	6dB Bandwidth	Limit	Result
	(MHz)	(KHz)	
2412 MHz	16.36	≥500KHz	PASS
2437 MHz	16.36	≥500KHz	PASS
2462 MHz	16.35	≥500KHz	PASS

TX CH 01

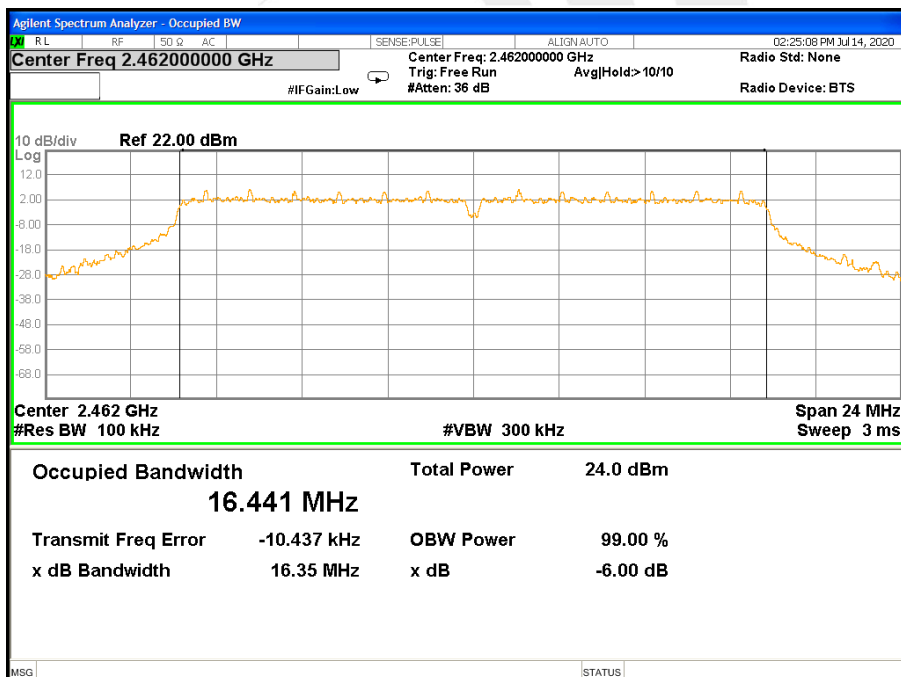




### TX CH 06



### TX CH 11

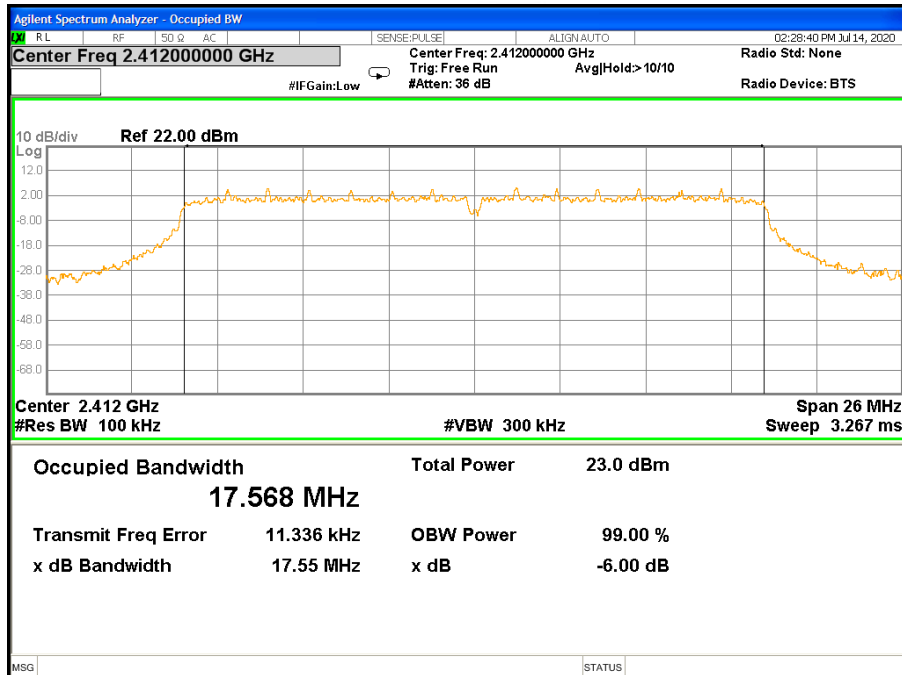




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

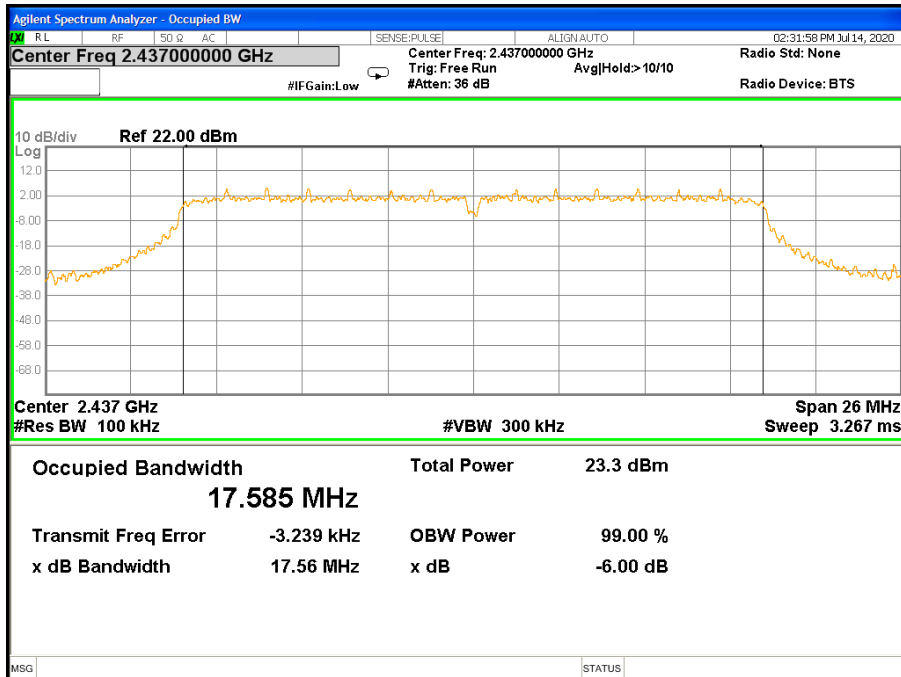
Frequency	6dB Bandwidth	Limit	Result
	(MHz)	(KHz)	
2412 MHz	17.55	≥500KHz	PASS
2437 MHz	17.56	≥500KHz	PASS
2462 MHz	17.33	≥500KHz	PASS

**TX CH 01**

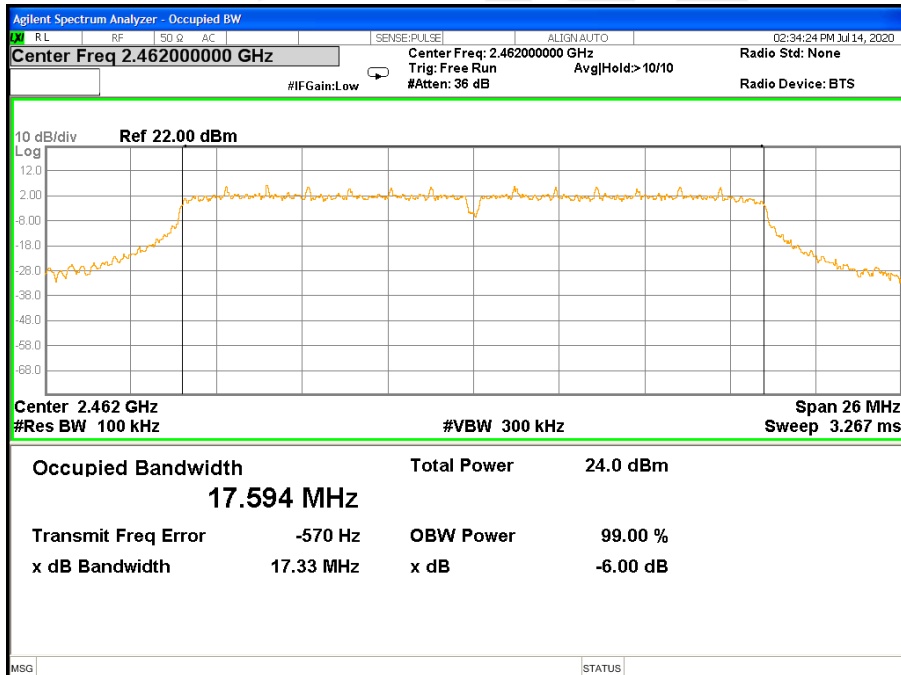




### TX CH 06



### TX CH 11

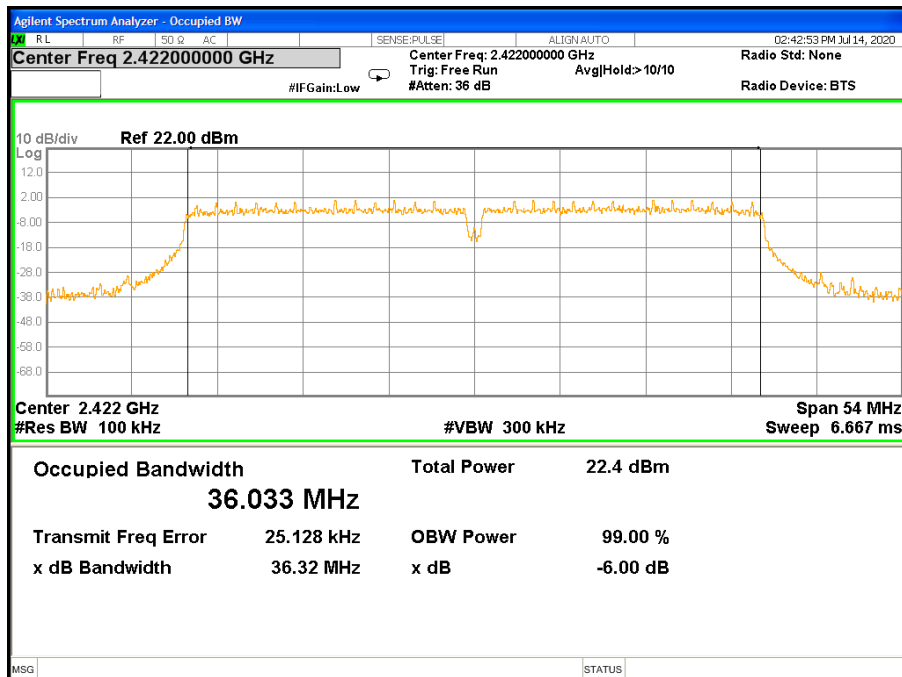




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

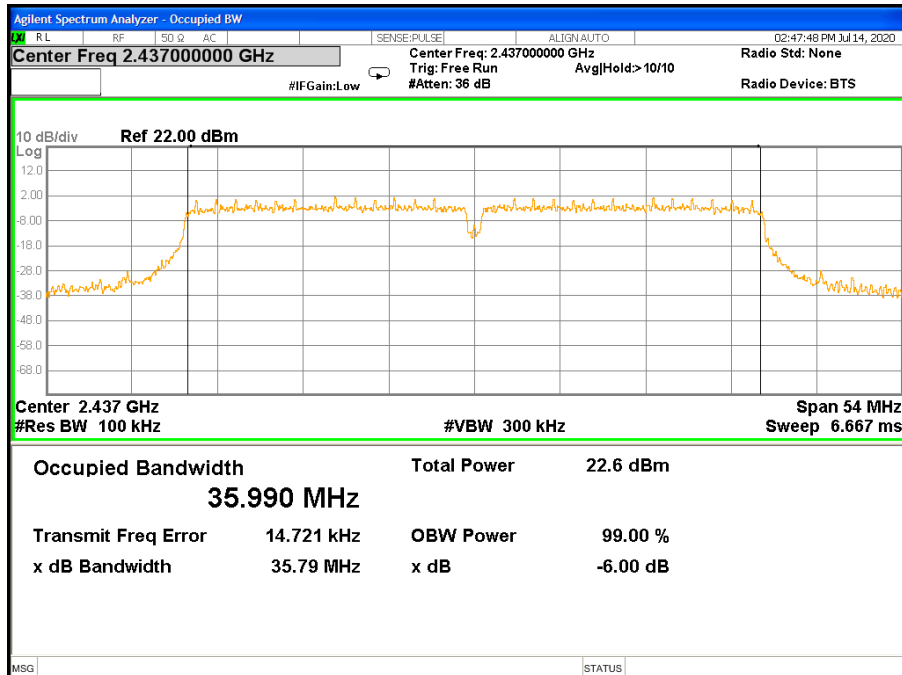
Frequency	6dB Bandwidth	Limit	Result
	(MHz)	(KHz)	
2422 MHz	36.32	≥500KHz	PASS
2437 MHz	35.79	≥500KHz	PASS
2452 MHz	36.30	≥500KHz	PASS

**TX CH 03**

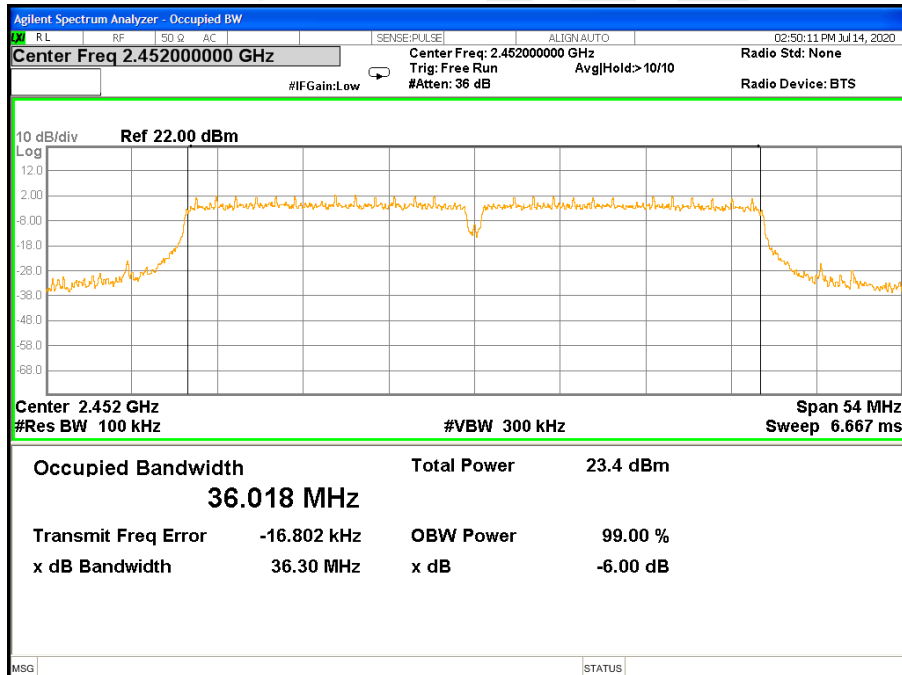




### TX CH 06



### TX CH 09







## 7. PEAK OUTPUT POWER TEST

### 7.1 LIMIT

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

### 7.2 TEST PROCEDURE

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

RBW  $\geq$  DTS bandwidth

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

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

Integrated band power method:

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

DTS bandwidth:

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

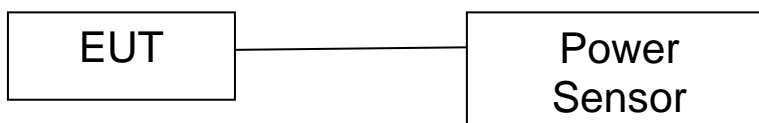
PKPM1 Peak power meter method:

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

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

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



## 7.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz		

Mode	Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
		(MHz)	(dBm)	(dBm)	dBm
TX 802.11b	CH01	2412	14.35	11.43	30
	CH06	2437	14.42	11.56	30
	CH11	2462	14.07	11.22	30
TX 802.11g	CH01	2412	21.15	11.62	30
	CH06	2437	21.66	11.65	30
	CH11	2462	19.75	11.22	30
TX 802.11n20	CH01	2412	24.14	14.13	30
	CH06	2437	24.35	13.88	30
	CH11	2462	23.91	13.36	30
TX 802.11n40	CH03	2422	22.22	13.37	30
	CH06	2437	22.55	13.31	30
	CH09	2452	21.49	13.15	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 FPC Antenna. It comply with the standard requirement.





## APPENDIX-PHOTOS OF TEST SETUP

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

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

