

# TEST REPORT

Reference No. .... : WTS14S1220961-2E  
FCC ID..... : 2ADTE-DG2014  
Applicant ..... : Shenzhen KVD Communication Equipment  
Address ..... : 13C, Block C, Shenzhen Electronic Technology Building, Shennan  
Middle Road, Futian District, Shenzhen, China  
Manufacturer ..... : The same as above  
Address ..... : The same as above  
  
Product Name ..... : Mobile Phone  
Model No. .... : TURBO DG2014  
DOOGEE  
Standards ..... : FCC CFR47 Part 15 Section 15.247:2014  
Date of Receipt sample..... : Dec. 6, 2014  
Date of Test..... : Dec. 10, 2014 ~ Dec. 30, 2014  
Date of Issue ..... : Dec. 31, 2014  
Test Result ..... : **Pass \***

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

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## 2 Test Summary

Test Items	Test Requirement	Result
Radiated Emissions	15.247 15.205(a) 15.209(a)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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## 4 General Information

### 4.1 General Description of E.U.T.

Product Name	: Mobile Phone
Model No.	: TURBO DG2014
Model Description	: N/A
GSM Band(s)	: GSM 850/900/1800/1900MHz
GPRS/EGPRS Class	: 12
WCDMA Band(s)	: FDD Band I/V
Wi-Fi Specification	: 802.11b/g/n HT20/n HT40
Bluetooth Version	: Bluetooth v4.0 with BLE
GPS	: Support
NFC	: N/A
Hardware Version	: Z819BS-B1
Software Version	: DOOGEE-TURBO-DG2014-4.4-R11

### 4.2 Details of E.U.T.

Operation Frequency	: GSM 850: 824~849MHz PCS 1900: 1850~1910MHz WCDMA Band V: 824~849MHz WiFi: 802.11b/g/n HT20: 2412-2462MHz 802.11n HT40: 2422-2452MHz Bluetooth: 2402-2480MHz GPS: 1.57GHz
Max. RF output power	: GSM 850: 32.53dBm PCS1900: 29.72dBm WCDMA Band V: 22.03dBm WiFi: 9.40dBm Bluetooth: 0.79dBm
Type of Modulation	: GSM,GPRS: GMSK WCDMA: QPSK WiFi: CCK, OFDM Bluetooth: GFSK, Pi/4 DQPSK,8DPSK
Antenna installation	: GSM/WCDMA: Wire antenna WiFi/Bluetooth: Metal Dome
Antenna Gain	: GSM 850: -4dBi PCS1900: -4dBi WCDMA Band V: -4dBi

	WiFi: -1dBi
	Bluetooth: -1dBi
Technical Data	: Battery DC 3.7V 1750mAh
	DC 5V, 1.0A, charging from adapter
	(Adapter Input: 100-240VAC 50/60Hz, 0.15A)
Adapter	: Manufacture: Shenzhen KVD Communication Equipment
	Model No.: TN-050100UZ

### 4.3 Channel List

#### WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

#### BT BLE

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

## 4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
6dB Bandwidth	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
Band Edge	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
Transmitter Spurious Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX

Table 2 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	BT BLE	1 Mbps	1/19/39	TX
Power Spectral Density	BT BLE	1 Mbps	1/19/39	TX
6dB Bandwidth	BT BLE	1 Mbps	1/19/39	TX
Band Edge	BT BLE	1 Mbps	1/19/39	TX
Transmitter Spurious Emissions	BT BLE	1 Mbps	1/19/39	TX

**Note** :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Table 3 Tests Carried Out Under FCC part 15.207 &amp; FCC part 15.209

Test Item	Test Mode
Conduction Emission, 0.15MHz to 30MHz	Communication(Wifi & BT BLE)

#### 4.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A-1, July 12, 2012.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

## 5 Equipment Used during Test

### 5.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.15,2014	Sep.14,2015
2.	LISN	R&S	ENV216	101215	Sep.15,2014	Sep.14,2015
3.	Cable	Top	TYPE16(3.5M)	-	Sep.15,2014	Sep.14,2015
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.15,2014	Sep.14,2015
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2014	Sep.14,2015
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.15,2014	Sep.14,2015
4.	Cable	LARGE	RF300	-	Sep.15,2014	Sep.14,2015
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2014	Sep.14,2015
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2014	Apr.18,2015
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.15,2014	Sep.14,2015
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2014	Apr.18,2015
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2014	Mar.16,2015
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.15,2014	Sep.14,2015
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2014	Sep.14,2015
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2014	Sep.14,2015



4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2014	Sep.14,2015
<b>RF Conducted Testing</b>						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2.	Spectrum Analyzer (9k~6GHz)	R&S	FSL6	100959	Sep.15,2014	Sep.14,2015
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.15,2014	Sep.14,2015

## 5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
Headphone	Qisheng	S-325	N/A

## 5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	$\pm 1.0$ dB
RF Power Density	$\pm 2.2$ dB
Radiated Spurious Emissions test	$\pm 5.03$ dB (30M~1000MHz)
	$\pm 5.47$ dB (1000M~25000MHz)
Conducted Spurious Emissions test	$\pm 3.64$ dB (AC mains 150KHz~30MHz)

## 5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

## 6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB $\mu$ V between 0.15MHz & 0.5MHz 56 dB $\mu$ V between 0.5MHz & 5MHz 60 dB $\mu$ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

### 6.1 E.U.T. Operation

Operating Environment :

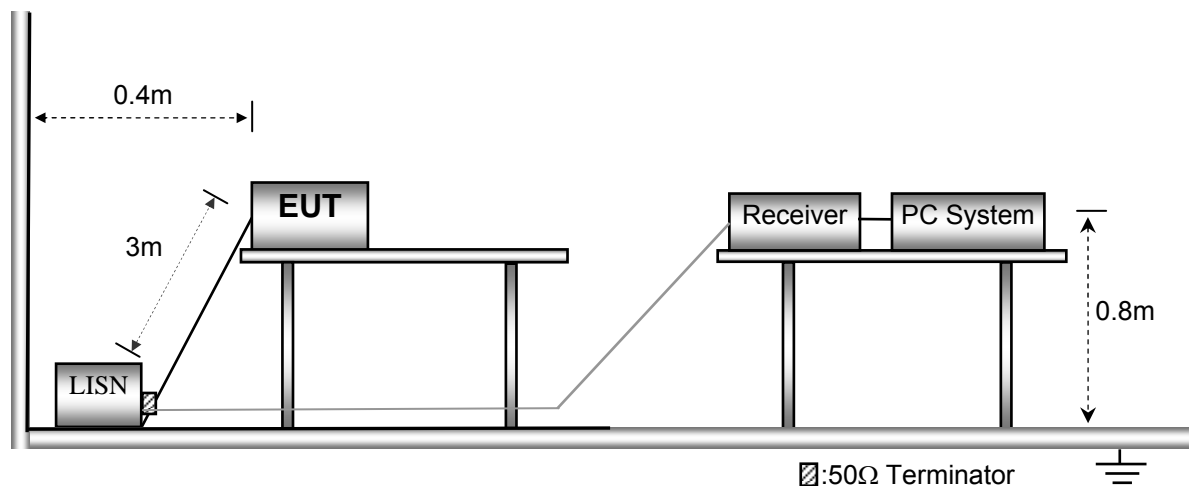
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode(Wifi /BT BLE), the worst data were shown in the report.

### 6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.



### 6.3 Measurement Description

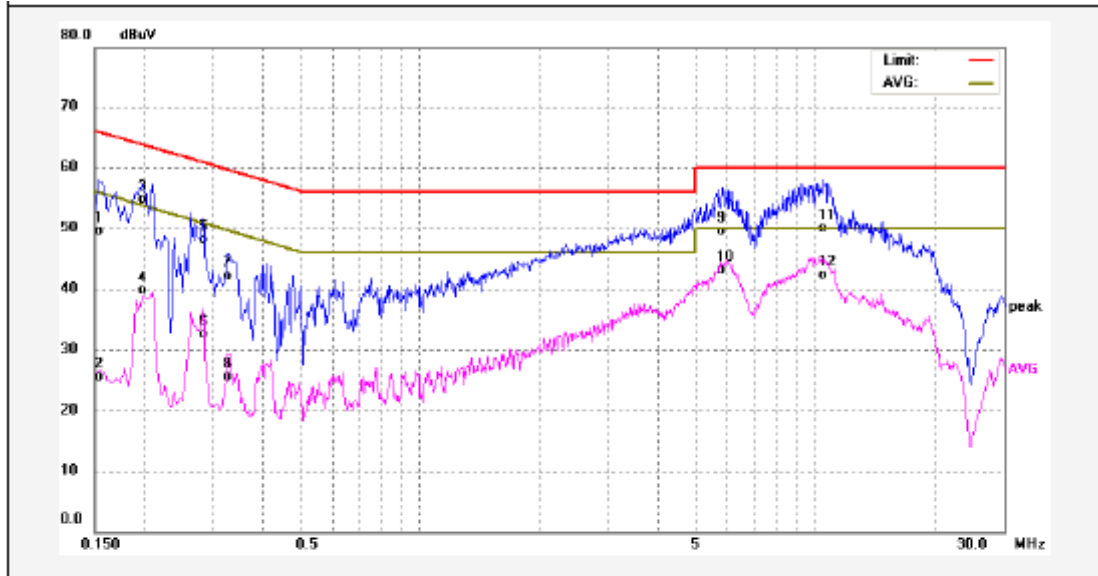
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

## 6.4 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

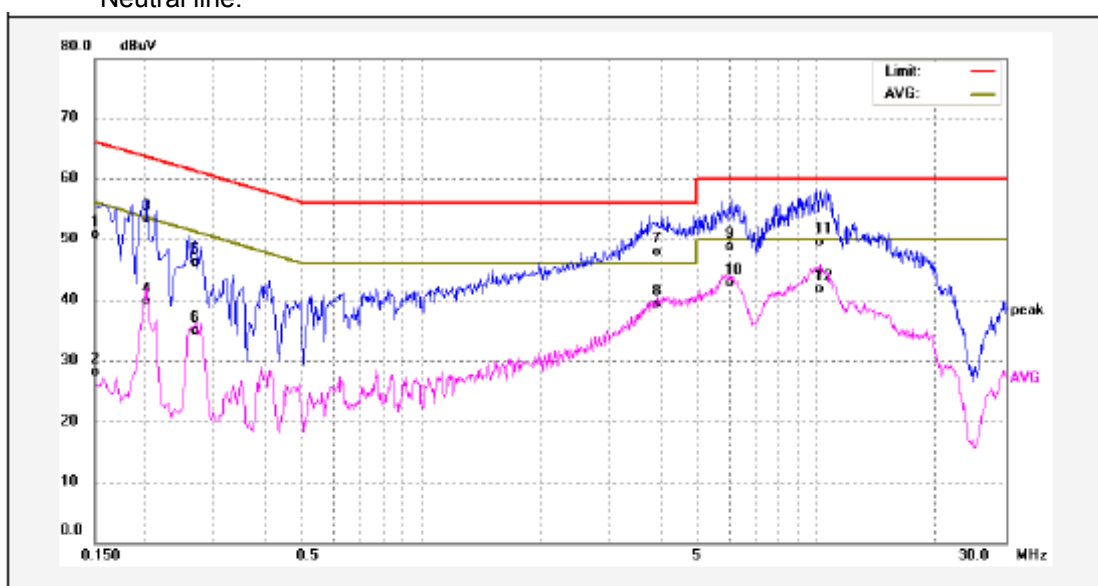
Worst Mode: transmitting mode (Wifi)

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	38.33	11.18	49.51	65.78	-16.27	QP	
2	0.1539	14.33	11.18	25.51	55.78	-30.27	AVG	
3	0.1980	43.51	11.29	54.80	63.69	-8.89	QP	
4	0.1980	28.38	11.29	39.67	53.69	-14.02	AVG	
5	0.2819	36.86	11.30	48.16	60.76	-12.60	QP	
6	0.2819	21.23	11.30	32.53	50.76	-18.23	AVG	
7	0.3260	30.71	11.30	42.01	59.55	-17.54	QP	
8	0.3260	14.29	11.30	25.59	49.55	-23.96	AVG	
9	5.8340	38.19	11.25	49.44	60.00	-10.56	QP	
10	5.8340	31.81	11.25	43.06	50.00	-6.94	AVG	
11	10.4180	38.57	11.32	49.89	60.00	-10.11	QP	
12	10.4180	31.07	11.32	42.39	50.00	-7.61	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	39.60	11.17	50.77	65.99	-15.22	QP	
2	0.1500	16.85	11.17	28.02	55.99	-27.97	AVG	
3	0.2020	41.99	11.30	53.29	63.52	-10.23	QP	
4	0.2020	28.35	11.30	39.65	53.52	-13.87	AVG	
5	0.2700	34.83	11.30	46.13	61.12	-14.99	QP	
6	0.2700	23.64	11.30	34.94	51.12	-16.18	AVG	
7	3.9500	36.59	11.23	47.82	56.00	-8.18	QP	
8	3.9500	28.02	11.23	39.25	46.00	-6.75	AVG	
9	6.0980	37.36	11.25	48.61	60.00	-11.39	QP	
10	6.0980	31.37	11.25	42.62	50.00	-7.38	AVG	
11	10.0420	38.21	11.31	49.52	60.00	-10.48	QP	
12	10.0420	30.49	11.31	41.80	50.00	-8.20	AVG	

## 7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

### 7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

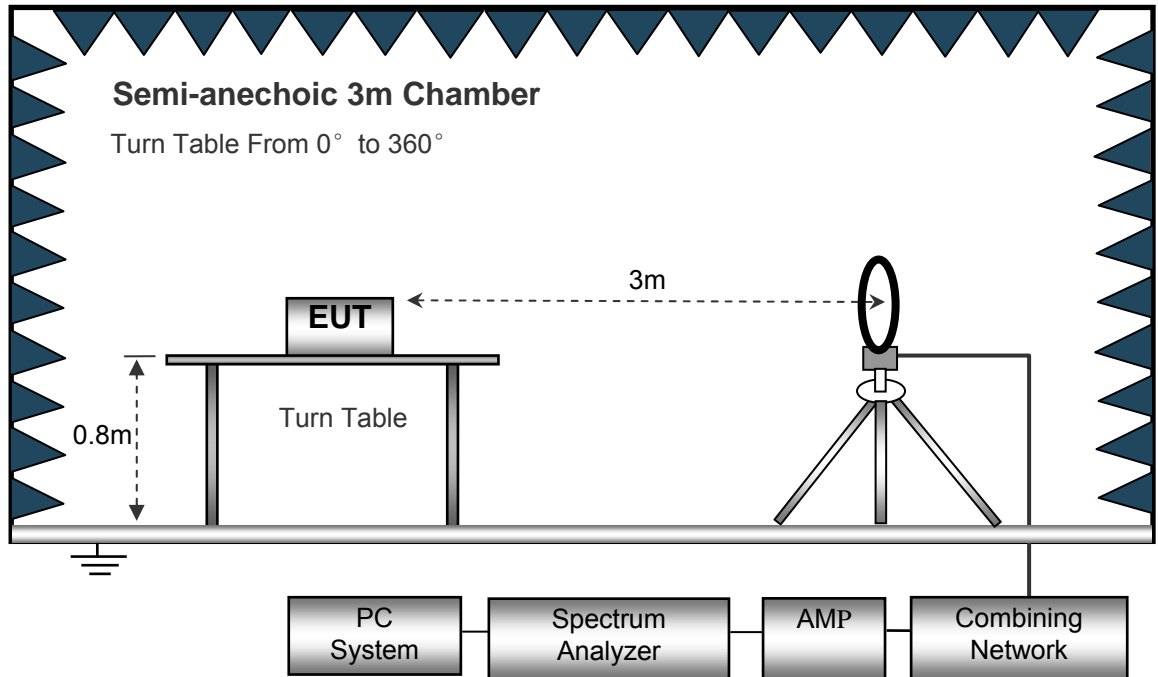
EUT Operation :

The test was performed in transmitting mode(Wifi /BT BLE), the test data were shown in the report.

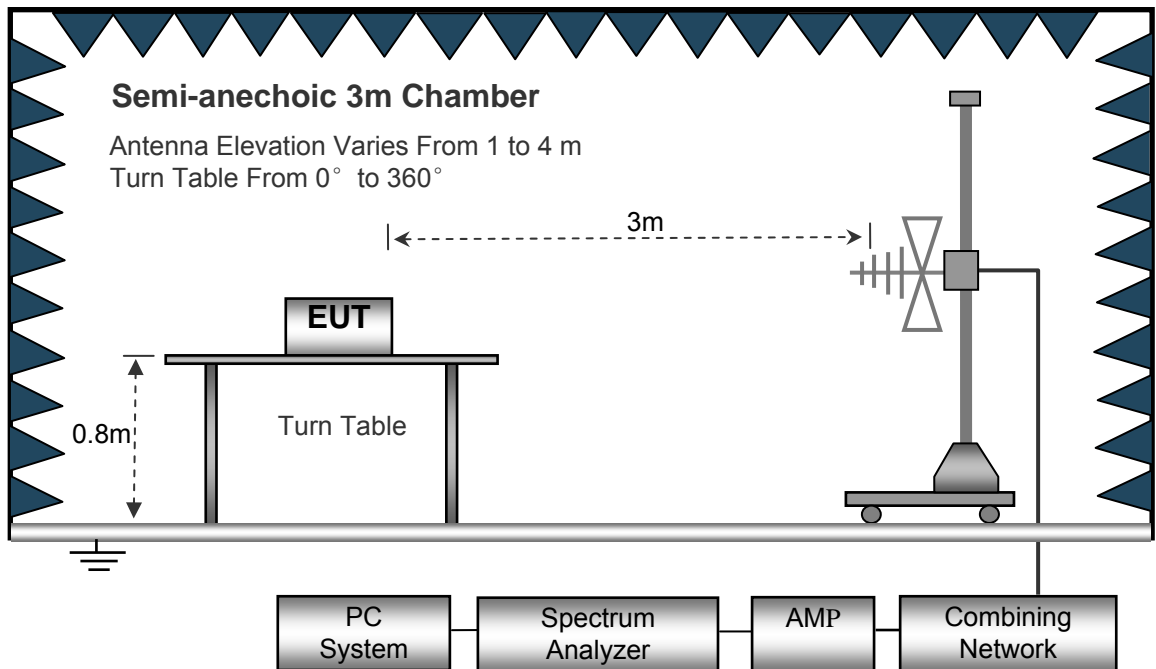
## 7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

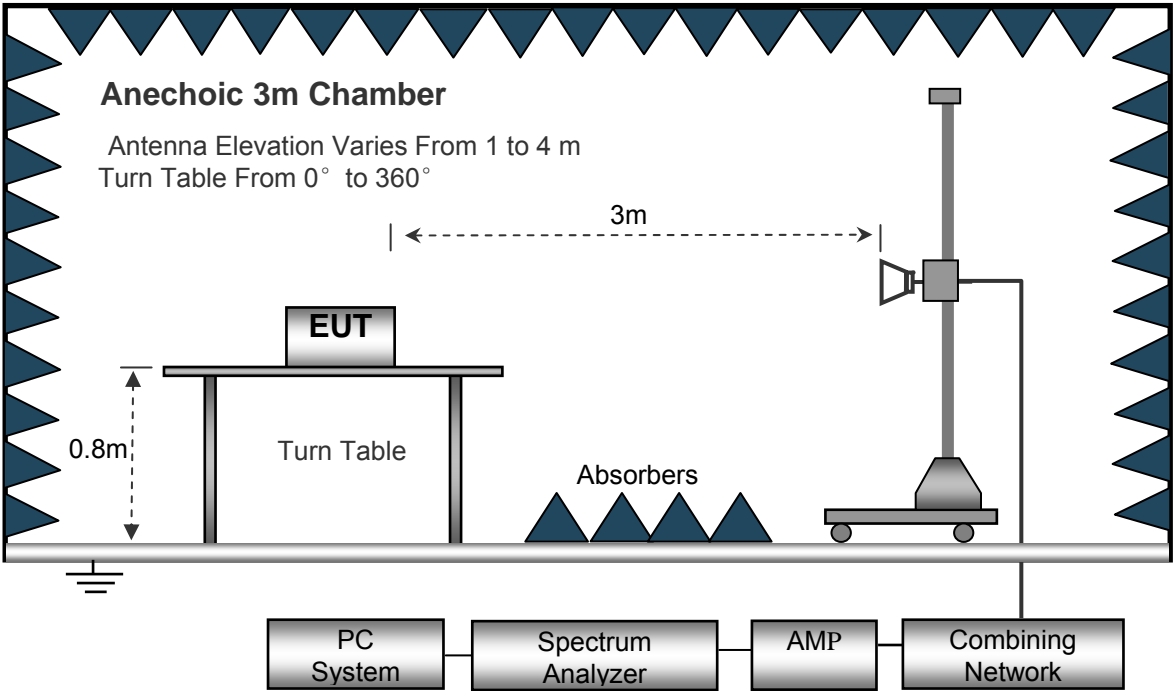
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



### 7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
IF Bandwidth.....10kHz  
Video Bandwidth.....10kHz  
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto  
Detector .....PK  
Resolution Bandwidth.....100kHz  
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed ..... Auto  
Detector .....PK  
Resolution Bandwidth.....1MHz  
Video Bandwidth.....3MHz  
Detector .....Ave.  
Resolution Bandwidth.....1MHz  
Video Bandwidth.....10Hz

## 7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high -pass filter is used during radiated emissions above 1GHz measurement.

## 7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$



## 7.6 Summary of Test Results

### Wifi:

#### Test Frequency : 32.768kHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

#### Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
513.40	13.58	PK	27	1.3	H	22.97	36.55	46.00	-9.45
513.40	12.24	PK	272	1.9	V	22.97	35.21	46.00	-10.79
4824.00	50.45	PK	76	1.9	V	-1.06	49.39	74.00	-24.61
4824.00	48.75	Ave	76	1.9	V	-1.06	47.69	54.00	-6.31
7236.00	46.13	PK	147	1.8	H	1.33	47.46	74.00	-26.54
7236.00	45.29	Ave	147	1.8	H	1.33	46.62	54.00	-7.38
2314.78	46.34	PK	45	1.8	V	-13.19	33.15	74.00	-40.85
2314.78	38.88	Ave	45	1.8	V	-13.19	25.69	54.00	-28.31
2373.69	42.72	PK	23	1.1	H	-13.14	29.58	74.00	-44.42
2373.69	36.05	Ave	23	1.1	H	-13.14	22.91	54.00	-31.09
2486.74	44.88	PK	247	2.0	V	-13.08	31.80	74.00	-42.20
2486.74	36.56	Ave	247	2.0	V	-13.08	23.48	54.00	-30.52

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
513.40	13.62	PK	265	1.8	H	22.97	36.59	46.00	-9.41
513.40	12.84	PK	284	1.6	V	22.97	35.81	46.00	-10.19
4874.00	49.49	PK	107	1.1	V	-0.62	48.87	74.00	-25.13
4874.00	47.13	Ave	107	1.1	V	-0.62	46.51	54.00	-7.49
7311.00	45.28	PK	169	1.8	H	2.21	47.49	74.00	-26.51
7311.00	44.72	Ave	169	1.8	H	2.21	46.93	54.00	-7.07
2310.80	45.97	PK	50	1.9	V	-13.19	32.78	74.00	-41.22
2310.80	38.28	Ave	50	1.9	V	-13.19	25.09	54.00	-28.91
2382.74	44.38	PK	124	1.0	H	-13.14	31.24	74.00	-42.76
2382.74	36.69	Ave	124	1.0	H	-13.14	23.55	54.00	-30.45
2491.82	44.38	PK	335	1.8	V	-13.08	31.30	74.00	-42.70
2491.82	37.99	Ave	335	1.8	V	-13.08	24.91	54.00	-29.09

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
513.40	13.62	PK	356	1.1	H	22.97	36.59	46.00	-9.41
513.40	14.20	PK	331	1.0	V	22.97	37.17	46.00	-8.83
4924.00	50.39	PK	313	1.9	V	-0.24	50.15	74.00	-23.85
4924.00	48.74	Ave	313	1.9	V	-0.24	48.50	54.00	-5.50
7386.00	48.28	PK	154	1.2	H	2.84	51.12	74.00	-22.88
7386.00	47.37	Ave	154	1.2	H	2.84	50.21	54.00	-3.79
2345.66	46.54	PK	314	1.5	V	-13.19	33.35	74.00	-40.65
2345.66	39.00	Ave	314	1.5	V	-13.19	25.81	54.00	-28.19
2378.54	43.80	PK	158	2.0	H	-13.14	30.66	74.00	-43.34
2378.54	38.54	Ave	158	2.0	H	-13.14	25.40	54.00	-28.60
2496.66	42.87	PK	8	1.2	V	-13.08	29.79	74.00	-44.21
2496.66	37.76	Ave	8	1.2	V	-13.08	24.68	54.00	-29.32

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Low Channel 2412MHz									
513.40	14.99	PK	205	1.7	H	22.97	37.96	46.00	-8.04
513.40	14.10	PK	120	1.3	V	22.97	37.07	46.00	-8.93
4824.00	51.67	PK	58	1.6	V	-1.06	50.61	74.00	-23.39
4824.00	48.39	Ave	58	1.6	V	-1.06	47.33	54.00	-6.67
7236.00	47.18	PK	255	1.4	H	1.33	48.51	74.00	-25.49
7236.00	46.47	Ave	255	1.4	H	1.33	47.80	54.00	-6.20
2331.03	46.84	PK	56	1.4	V	-13.19	33.65	74.00	-40.35
2331.03	39.33	Ave	56	1.4	V	-13.19	26.14	54.00	-27.86
2382.00	43.20	PK	325	1.2	H	-13.14	30.06	74.00	-43.94
2382.00	37.94	Ave	325	1.2	H	-13.14	24.80	54.00	-29.20
2489.19	43.30	PK	150	1.2	V	-13.08	30.22	74.00	-43.78
2489.19	38.71	Ave	150	1.2	V	-13.08	25.63	54.00	-28.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Middle Channel 2437MHz									
513.40	13.92	PK	61	1.4	H	22.97	36.89	46.00	-9.11
513.40	14.17	PK	94	2.0	V	22.97	37.14	46.00	-8.86
4874.00	49.68	PK	136	1.9	V	-0.62	49.06	74.00	-24.94
4874.00	48.72	Ave	136	1.9	V	-0.62	48.10	54.00	-5.90
7311.00	47.48	PK	108	1.4	H	2.21	49.69	74.00	-24.31
7311.00	46.22	Ave	108	1.4	H	2.21	48.43	54.00	-5.57
2338.06	46.53	PK	302	1.2	V	-13.19	33.34	74.00	-40.66
2338.06	37.83	Ave	302	1.2	V	-13.19	24.64	54.00	-29.36
2382.22	43.34	PK	162	1.8	H	-13.14	30.20	74.00	-43.80
2382.22	37.72	Ave	162	1.8	H	-13.14	24.58	54.00	-29.42
2489.34	43.59	PK	136	1.9	V	-13.08	30.51	74.00	-43.49
2489.34	36.10	Ave	136	1.9	V	-13.08	23.02	54.00	-30.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: High Channel 2462MHz									
513.40	15.28	PK	83	1.8	H	22.97	38.25	46.00	-7.75
513.40	13.58	PK	0	2.0	V	22.97	36.55	46.00	-9.45
4924.00	50.73	PK	24	1.8	V	-0.24	50.49	74.00	-23.51
4924.00	49.46	Ave	24	1.8	V	-0.24	49.22	54.00	-4.78
7386.00	47.66	PK	218	1.6	H	2.84	50.50	74.00	-23.50
7386.00	46.46	Ave	218	1.6	H	2.84	49.30	54.00	-4.70
2349.35	46.24	PK	155	2.0	V	-13.19	33.05	74.00	-40.95
2349.35	37.92	Ave	155	2.0	V	-13.19	24.73	54.00	-29.27
2375.37	44.71	PK	77	1.8	H	-13.14	31.57	74.00	-42.43
2375.37	37.87	Ave	77	1.8	H	-13.14	24.73	54.00	-29.27
2496.28	43.58	PK	291	1.9	V	-13.08	30.50	74.00	-43.50
2496.28	38.38	Ave	291	1.9	V	-13.08	25.30	54.00	-28.70

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n20: Low Channel 2412MHz									
513.40	14.23	PK	87	1.5	H	22.97	37.20	46.00	-8.80
513.40	12.99	PK	274	1.1	V	22.97	35.96	46.00	-10.04
4824.00	50.58	PK	117	1.5	V	-1.06	49.52	74.00	-24.48
4824.00	48.90	Ave	117	1.5	V	-1.06	47.84	54.00	-6.16
7236.00	47.04	PK	167	1.4	H	1.33	48.37	74.00	-25.63
7236.00	45.58	Ave	167	1.4	H	1.33	46.91	54.00	-7.09
2345.09	45.49	PK	109	1.0	V	-13.19	32.30	74.00	-41.70
2345.09	38.14	Ave	109	1.0	V	-13.19	24.95	54.00	-29.05
2361.40	43.79	PK	135	1.4	H	-13.14	30.65	74.00	-43.35
2361.40	38.79	Ave	135	1.4	H	-13.14	25.65	54.00	-28.35
2491.09	43.28	PK	169	1.8	V	-13.08	30.20	74.00	-43.80
2491.09	37.64	Ave	169	1.8	V	-13.08	24.56	54.00	-29.44

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n20: Middle Channel 2437MHz									
513.40	14.48	PK	71	1.5	H	22.97	37.45	46.00	-8.55
513.40	13.05	PK	159	1.3	V	22.97	36.02	46.00	-9.98
4874.00	50.37	PK	158	1.5	V	-0.62	49.75	74.00	-24.25
4874.00	48.45	Ave	158	1.5	V	-0.62	47.83	54.00	-6.17
7311.00	47.62	PK	254	1.2	H	2.21	49.83	74.00	-24.17
7311.00	45.33	Ave	254	1.2	H	2.21	47.54	54.00	-6.46
2332.56	46.02	PK	14	1.0	V	-13.19	32.83	74.00	-41.17
2332.56	38.84	Ave	14	1.0	V	-13.19	25.65	54.00	-28.35
2358.20	43.15	PK	270	1.5	H	-13.14	30.01	74.00	-43.99
2358.20	38.30	Ave	270	1.5	H	-13.14	25.16	54.00	-28.84
2485.14	43.41	PK	300	1.6	V	-13.08	30.33	74.00	-43.67
2485.14	36.24	Ave	300	1.6	V	-13.08	23.16	54.00	-30.84



Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n20: High Channel 2462MHz									
513.40	15.24	PK	52	1.7	H	22.97	38.21	46.00	-7.79
513.40	12.39	PK	147	1.5	V	22.97	35.36	46.00	-10.64
4924.00	50.63	PK	15	1.5	V	-0.24	50.39	74.00	-23.61
4924.00	48.82	Ave	15	1.5	V	-0.24	48.58	54.00	-5.42
7386.00	47.35	PK	131	1.2	H	2.84	50.19	74.00	-23.81
7386.00	45.09	Ave	131	1.2	H	2.84	47.93	54.00	-6.07
2334.24	45.76	PK	225	1.3	V	-13.19	32.57	74.00	-41.43
2334.24	39.05	Ave	225	1.3	V	-13.19	25.86	54.00	-28.14
2351.97	43.83	PK	232	1.4	H	-13.14	30.69	74.00	-43.31
2351.97	38.42	Ave	232	1.4	H	-13.14	25.28	54.00	-28.72
2493.53	42.05	PK	13	1.6	V	-13.08	28.97	74.00	-45.03
2493.53	38.82	Ave	13	1.6	V	-13.08	25.74	54.00	-28.26

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n40: Low Channel 2422MHz									
513.40	13.62	PK	314	1.4	H	22.97	36.59	46.00	-9.41
513.40	12.94	PK	1	1.2	V	22.97	35.91	46.00	-10.09
4844.00	50.72	PK	104	2.0	V	-1.06	49.66	74.00	-24.34
4844.00	48.53	Ave	104	2.0	V	-1.06	47.47	54.00	-6.53
7266.00	48.23	PK	248	1.3	H	1.33	49.56	74.00	-24.44
7266.00	47.83	Ave	248	1.3	H	1.33	49.16	54.00	-4.84
2343.36	46.57	PK	199	1.5	V	-13.19	33.38	74.00	-40.62
2343.36	38.89	Ave	199	1.5	V	-13.19	25.70	54.00	-28.30
2387.93	42.16	PK	67	1.2	H	-13.14	29.02	74.00	-44.98
2387.93	36.69	Ave	67	1.2	H	-13.14	23.55	54.00	-30.45
2493.19	43.24	PK	159	1.4	V	-13.08	30.16	74.00	-43.84
2493.19	38.47	Ave	159	1.4	V	-13.08	25.39	54.00	-28.61

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n40: Middle Channel 2437MHz									
513.40	14.15	PK	3	1.2	H	22.97	37.12	46.00	-8.88
513.40	13.00	PK	51	1.6	V	22.97	35.97	46.00	-10.03
4874.00	49.02	PK	225	1.7	V	-0.62	48.40	74.00	-25.60
4874.00	48.46	Ave	225	1.7	V	-0.62	47.84	54.00	-6.16
7311.00	47.36	PK	134	1.5	H	2.21	49.57	74.00	-24.43
7311.00	46.88	Ave	134	1.5	H	2.21	49.09	54.00	-4.91
2335.68	46.95	PK	156	1.4	V	-13.19	33.76	74.00	-40.24
2335.68	39.62	Ave	156	1.4	V	-13.19	26.43	54.00	-27.57
2376.02	42.84	PK	116	1.9	H	-13.14	29.70	74.00	-44.30
2376.02	37.59	Ave	116	1.9	H	-13.14	24.45	54.00	-29.55
2495.41	44.29	PK	220	2.0	V	-13.08	31.21	74.00	-42.79
2495.41	37.01	Ave	220	2.0	V	-13.08	23.93	54.00	-30.07

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n40: High Channel 2452MHz									
513.40	14.54	PK	239	1.5	H	22.97	37.51	46.00	-8.49
513.40	13.94	PK	146	1.6	V	22.97	36.91	46.00	-9.09
4904.00	50.82	PK	251	1.7	V	-0.24	50.58	74.00	-23.42
4904.00	48.37	Ave	251	1.7	V	-0.24	48.13	54.00	-5.87
7356.00	48.01	PK	331	1.5	H	2.84	50.85	74.00	-23.15
7356.00	47.81	Ave	331	1.5	H	2.84	50.65	54.00	-3.35
2346.91	46.21	PK	59	1.2	V	-13.19	33.02	74.00	-40.98
2346.91	37.74	Ave	59	1.2	V	-13.19	24.55	54.00	-29.45
2370.40	44.14	PK	229	1.9	H	-13.14	31.00	74.00	-43.00
2370.40	37.05	Ave	229	1.9	H	-13.14	23.91	54.00	-30.09
2496.55	42.54	PK	7	1.5	V	-13.08	29.46	74.00	-44.54
2496.55	37.84	Ave	7	1.5	V	-13.08	24.76	54.00	-29.24

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported.

**BT BLE:****Test Frequency : 32.768kHz ~ 30MHz**

The measurements were more than 20 dB below the limit and not reported.

**Test Frequency : 30MHz ~ 18GHz**

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel 2402MHz									
513.40	14.36	PK	139	1.1	H	22.97	37.33	46.00	-8.67
513.40	12.26	PK	257	1.3	V	22.97	35.23	46.00	-10.77
4804	45.22	PK	242	1.4	V	-1.06	44.16	74.00	-29.84
4804	43.1	Ave	242	1.4	V	-1.06	42.04	54.00	-11.96
7206	44.69	PK	346	1.1	V	1.33	46.02	74.00	-27.98
7206	43.81	Ave	346	1.1	V	1.33	45.14	54.00	-8.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel 2440MHz									
513.40	14.40	PK	5	1.4	H	22.97	37.37	46.00	-8.63
513.40	12.63	PK	288	1.5	V	22.97	35.60	46.00	-10.40
4880	45.32	PK	270	1.3	V	-0.62	44.7	74.00	-29.30
4880	44.19	Ave	270	1.3	V	-0.62	43.57	54.00	-10.43
7320	44.09	PK	353	1.3	V	2.21	46.3	74.00	-27.70
7320	42.81	Ave	353	1.3	V	2.21	45.02	54.00	-8.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel 2480MHz									
513.40	15.40	PK	81	1.9	H	22.97	38.37	46.00	-7.63
513.40	12.45	PK	242	1.8	V	22.97	35.42	46.00	-10.58
4960	44.77	PK	324	1.6	V	-0.24	44.53	74.00	-29.47
4960	42.8	Ave	324	1.6	V	-0.24	42.56	54.00	-11.44
7440	43.02	PK	256	1.6	V	2.84	45.86	74.00	-28.14
7440	42.38	Ave	256	1.6	V	2.84	45.22	54.00	-8.78

**Test Frequency: 18GHz~25GHz**

The measurements were more than 20 dB below the limit and not reported

## 8 Band Edge Measurement

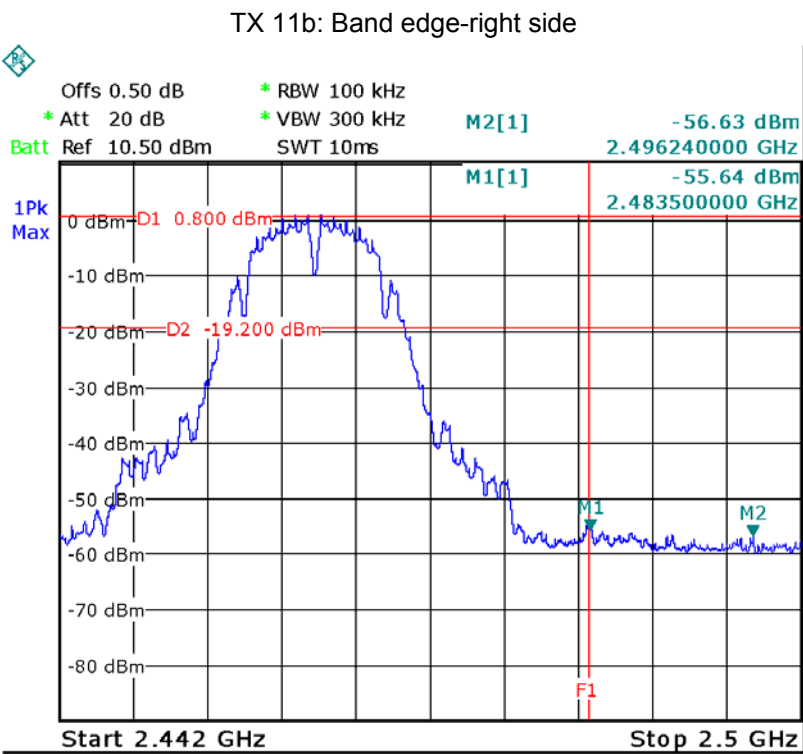
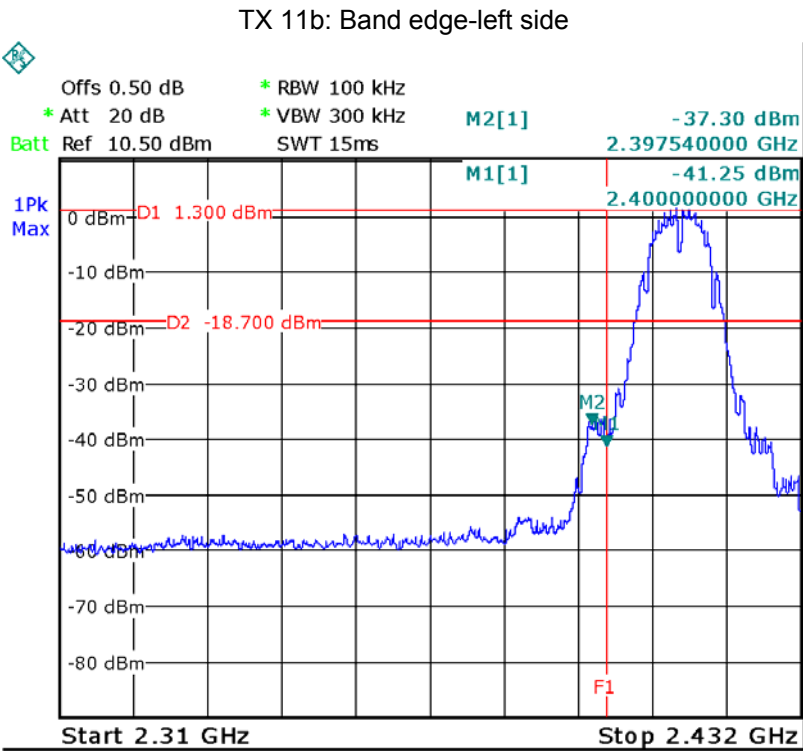
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	KDB 558074 D01 v03r02 06/05/2014
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
Test Mode:	Transmitting

### 8.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

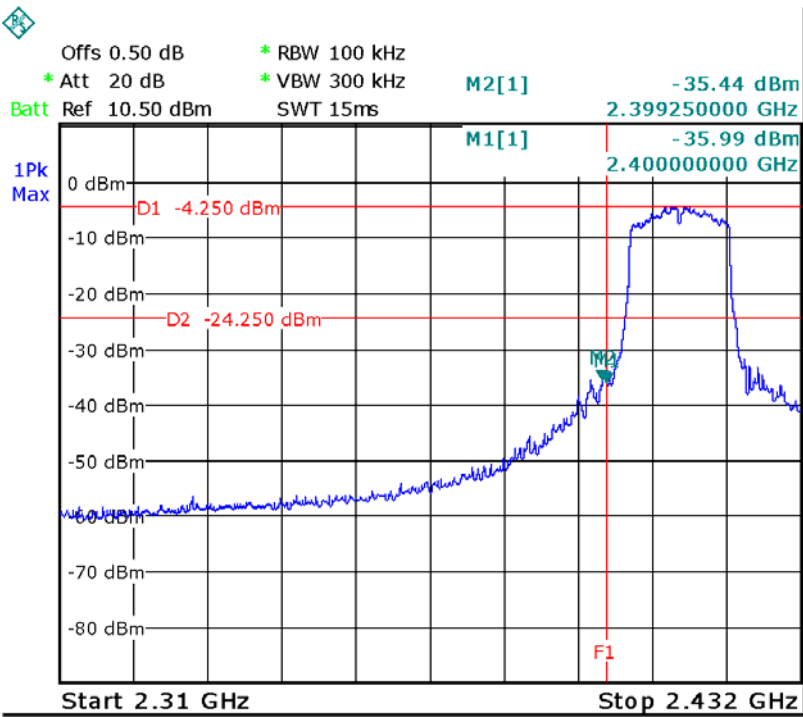
8.2 Test Result

Test result plots shown as follows:

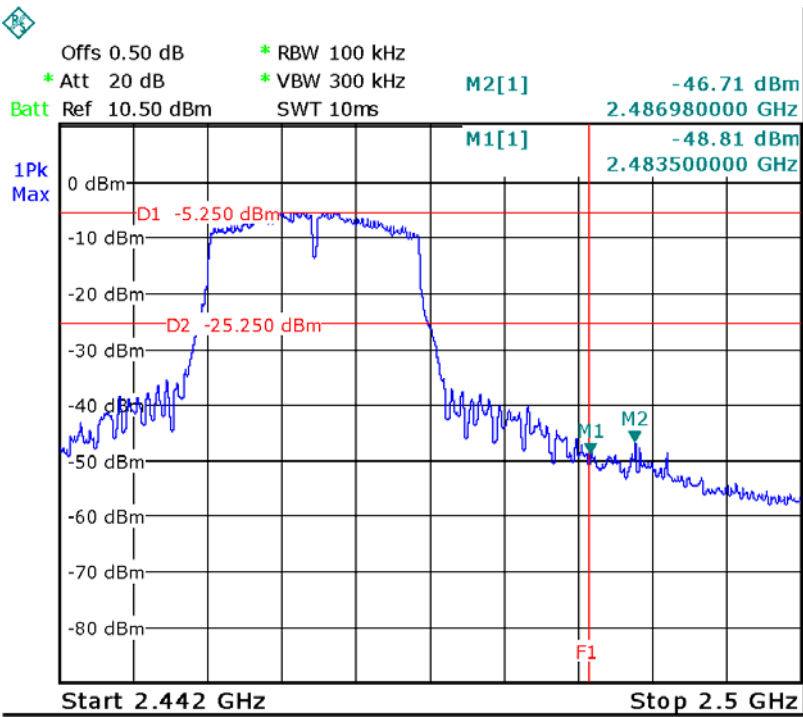




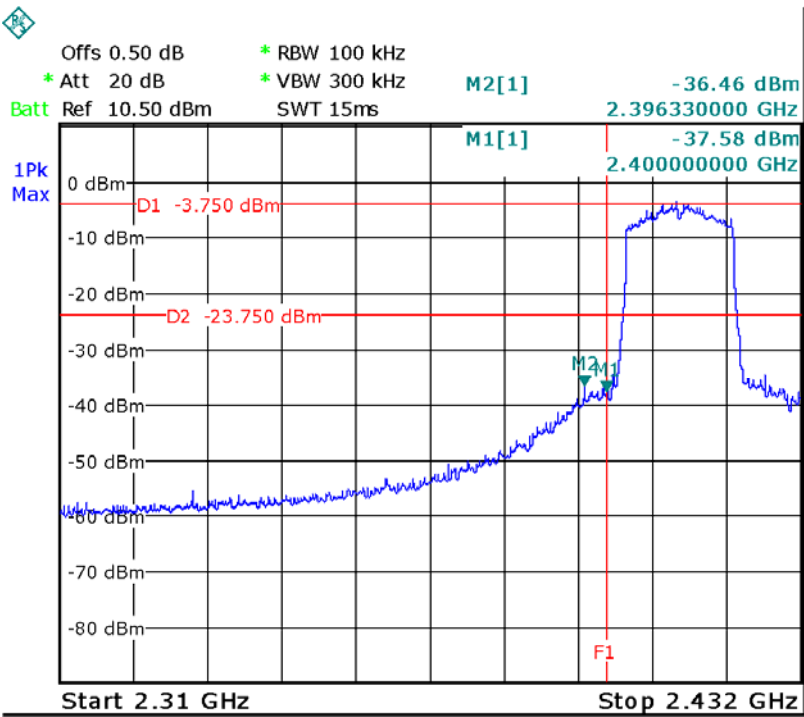
TX 11g: Band edge-left side



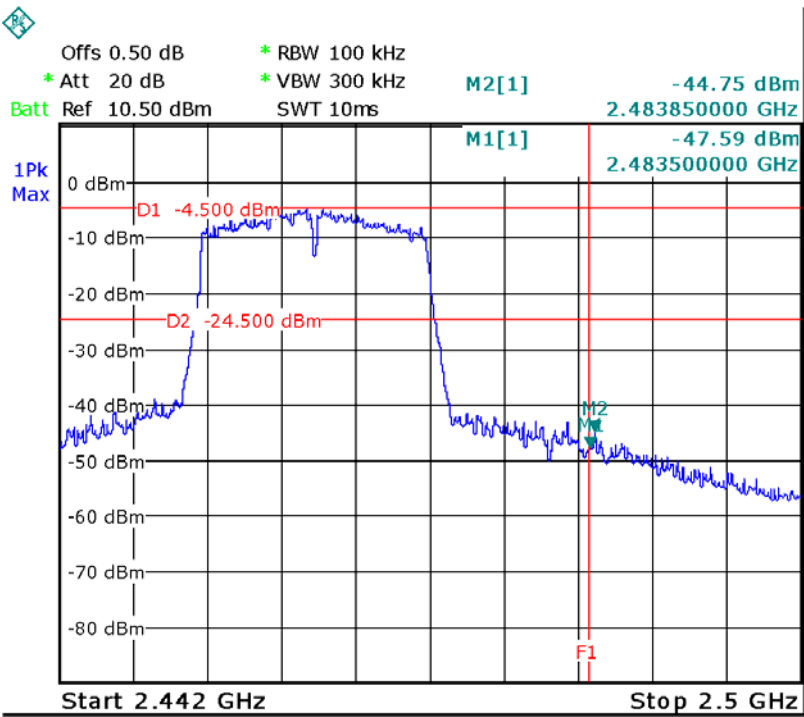
TX 11g: Band edge-right side



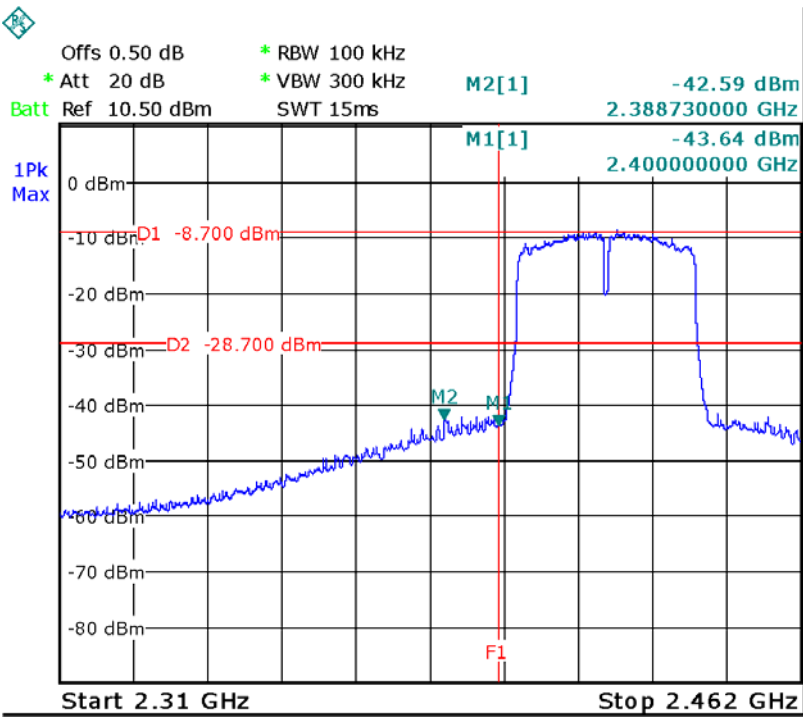
TX 11n HT20: Band edge-left side



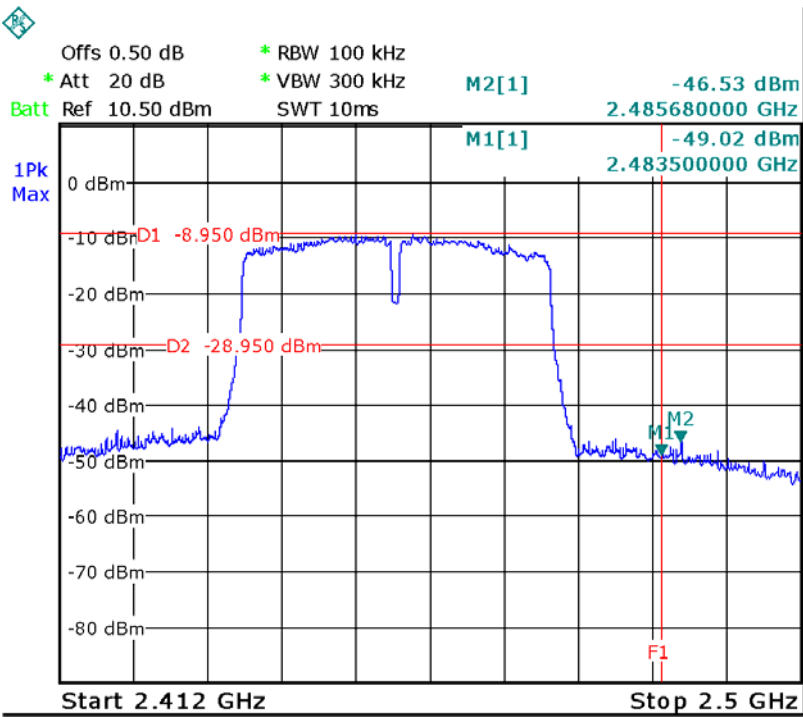
TX 11n HT20: Band edge-right side



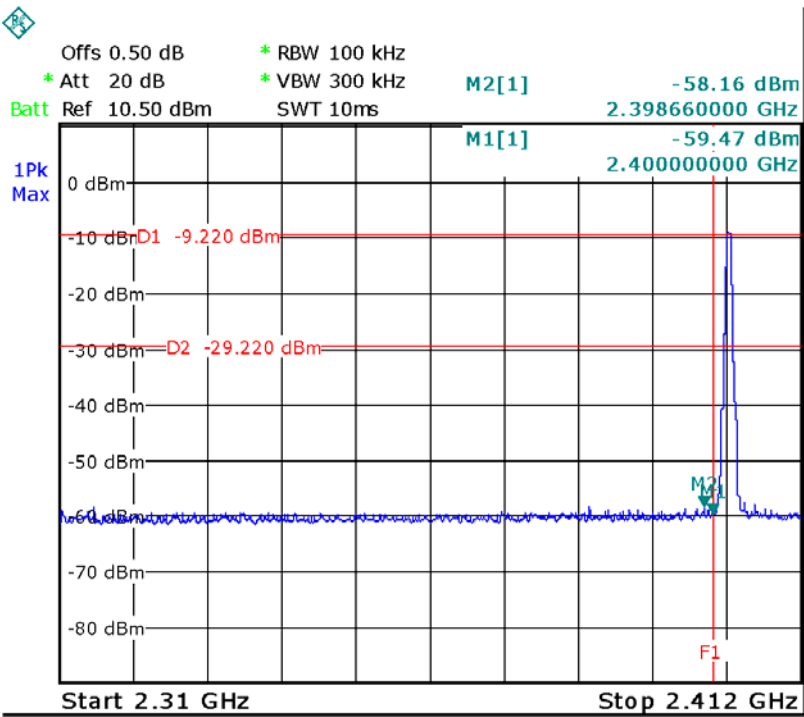
TX 11n HT40: Band edge-left side



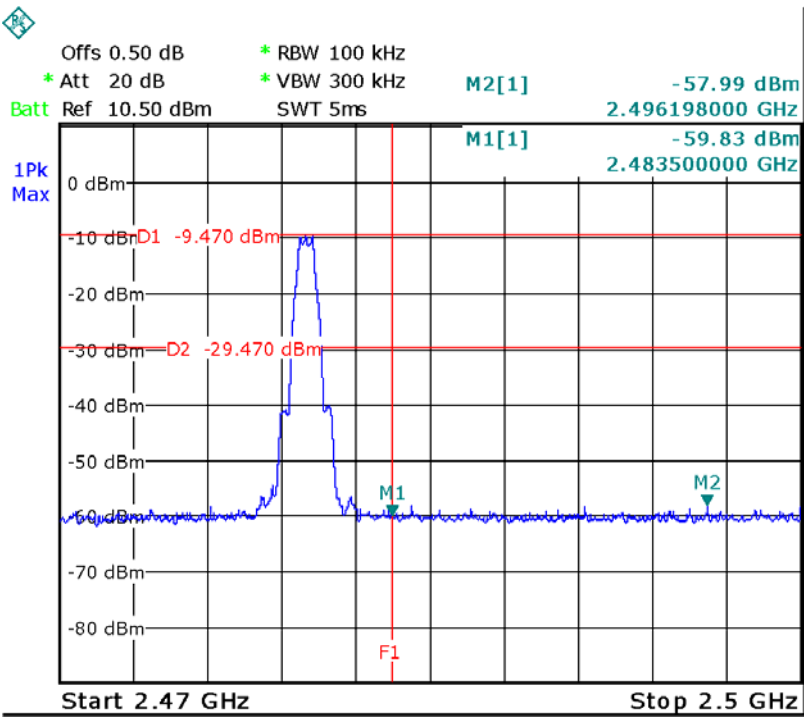
TX 11n HT40: Band edge-right side



TX BLE: Band edge-left side



TX BLE: Band edge-right side



## 9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 v03r02 06/05/2014

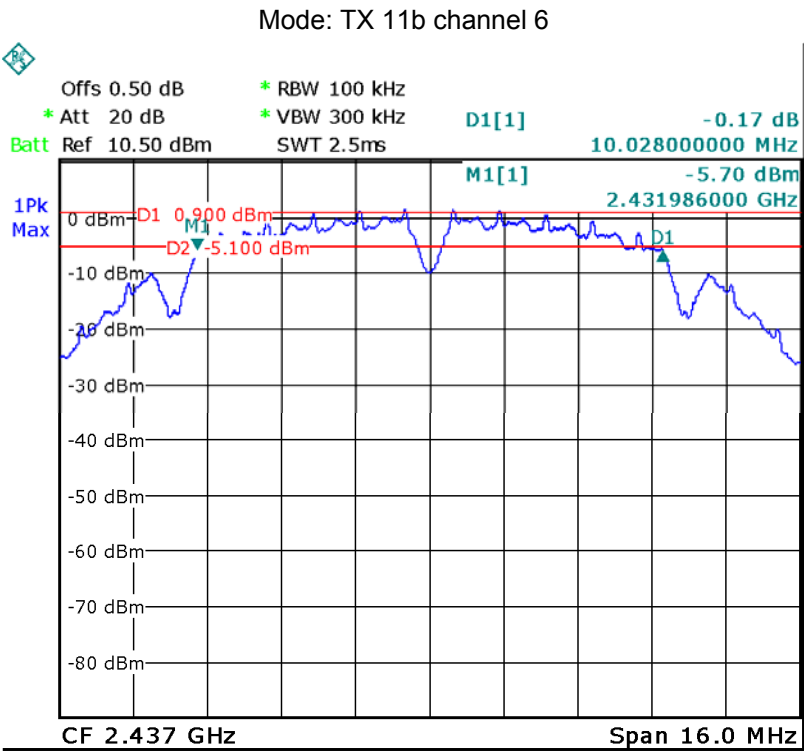
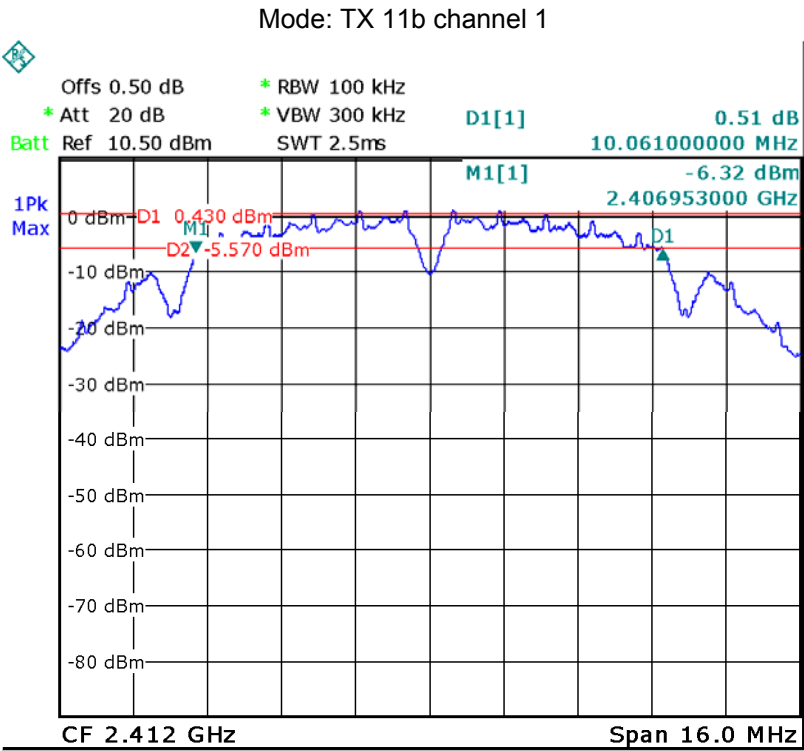
### 9.1 Test Procedure:

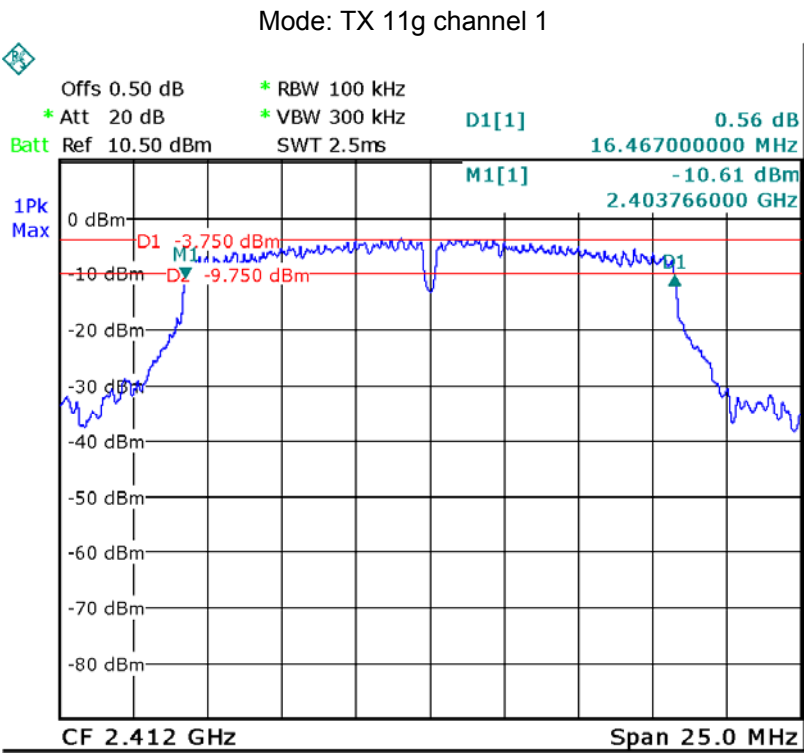
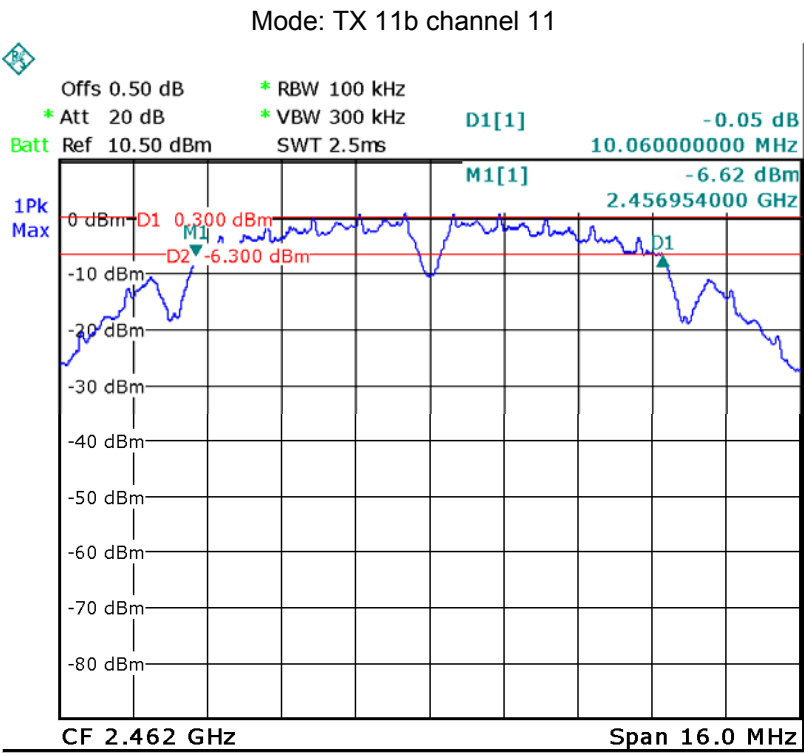
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

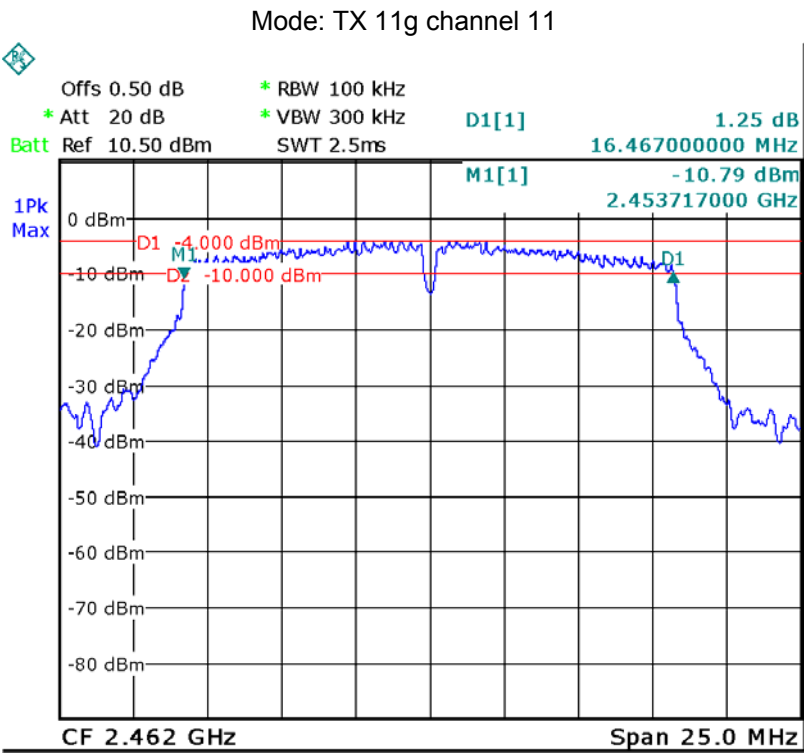
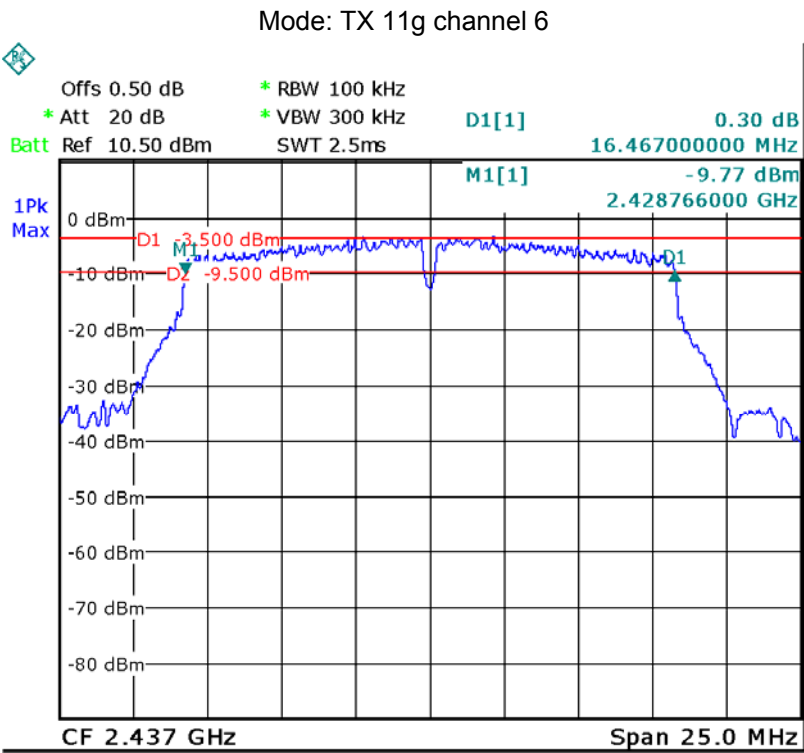
### 9.2 Test Result:

Operation mode	Bandwidth (MHz)		
TX 11b	Channel 1	Channel 6	Channel 11
	10.061	10.028	10.060
TX 11g	Channel 1	Channel 6	Channel 11
	16.467	16.467	16.467
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.515	17.515	17.615
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.27	36.38	36.31
BT BLE	Channel 1	Channel 20	Channel 40
	0.659	0.659	0.659

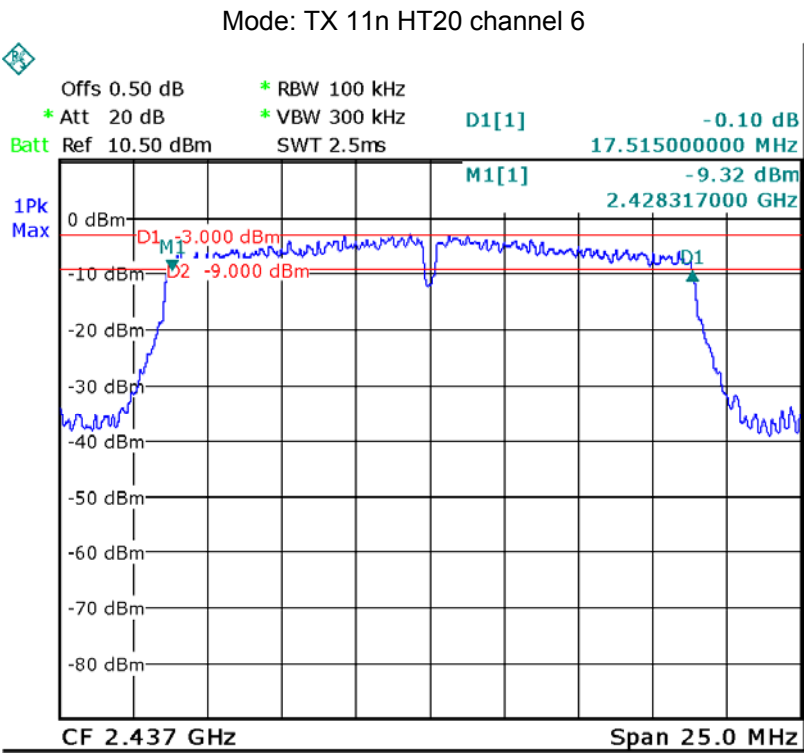
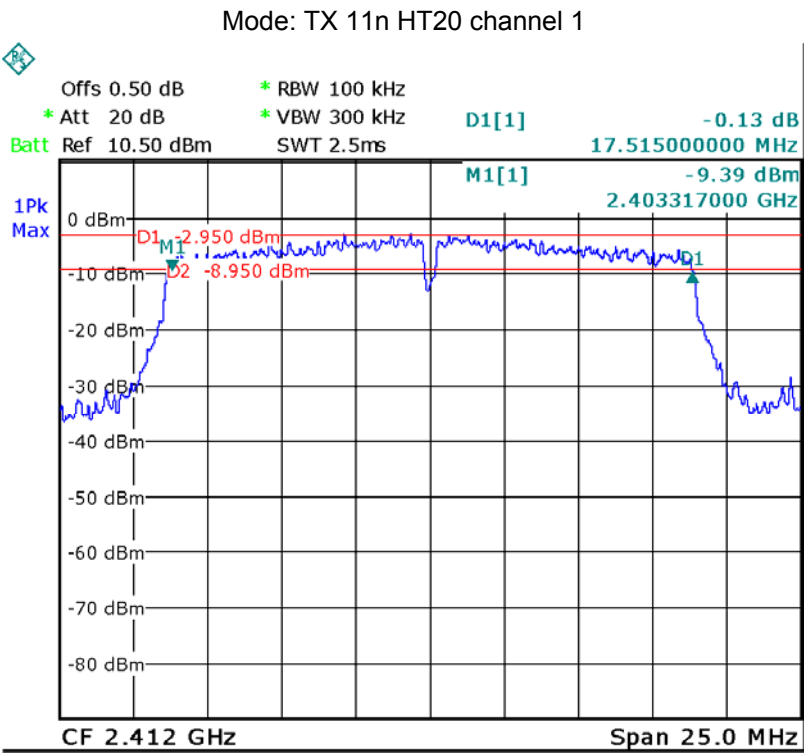
Test result plot as follows:

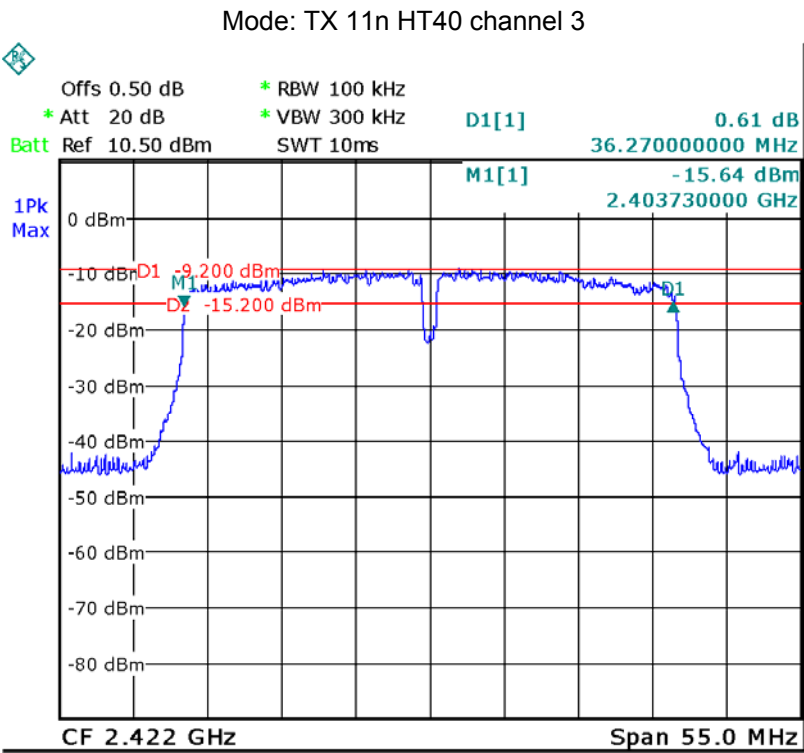
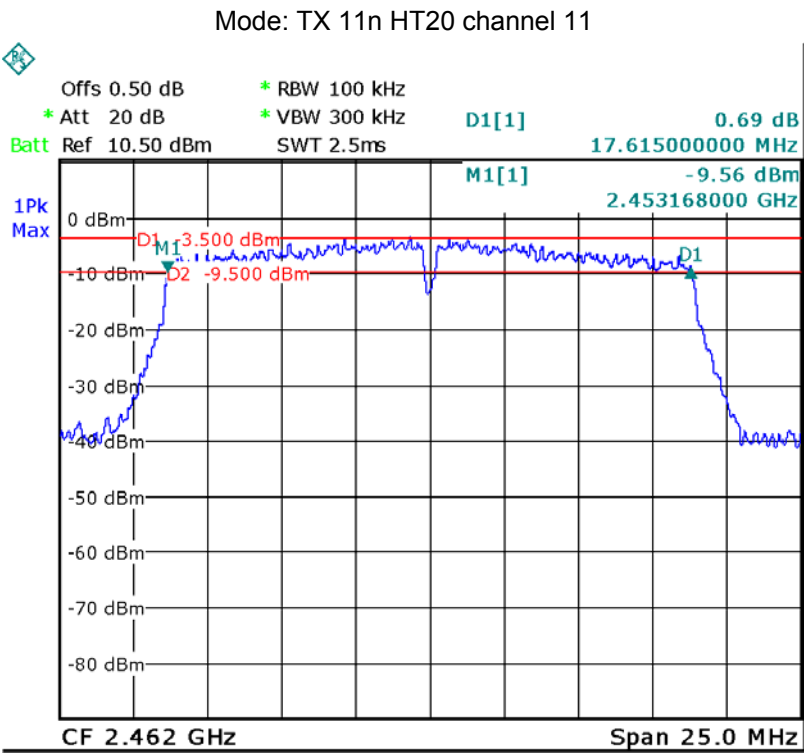


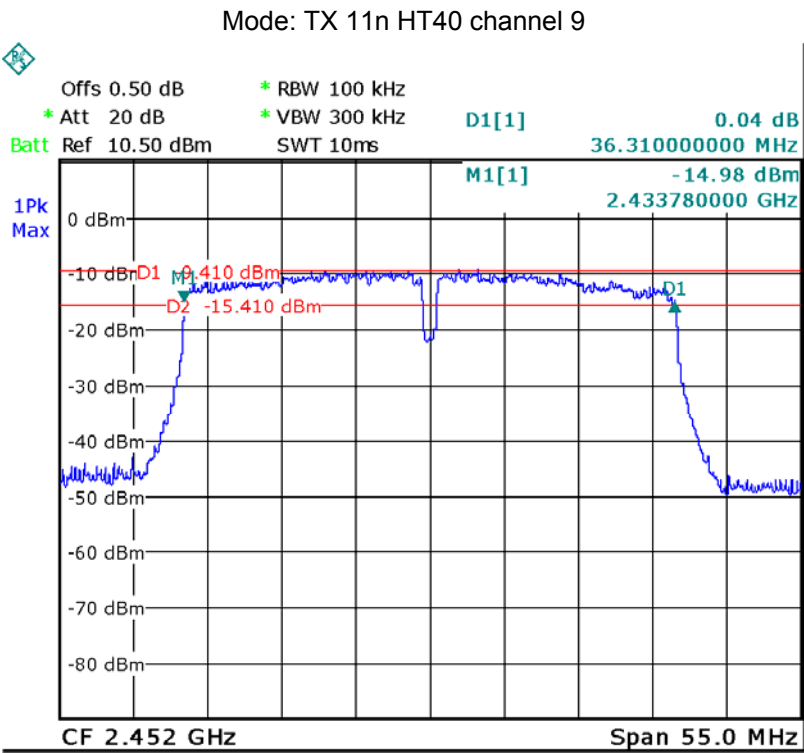
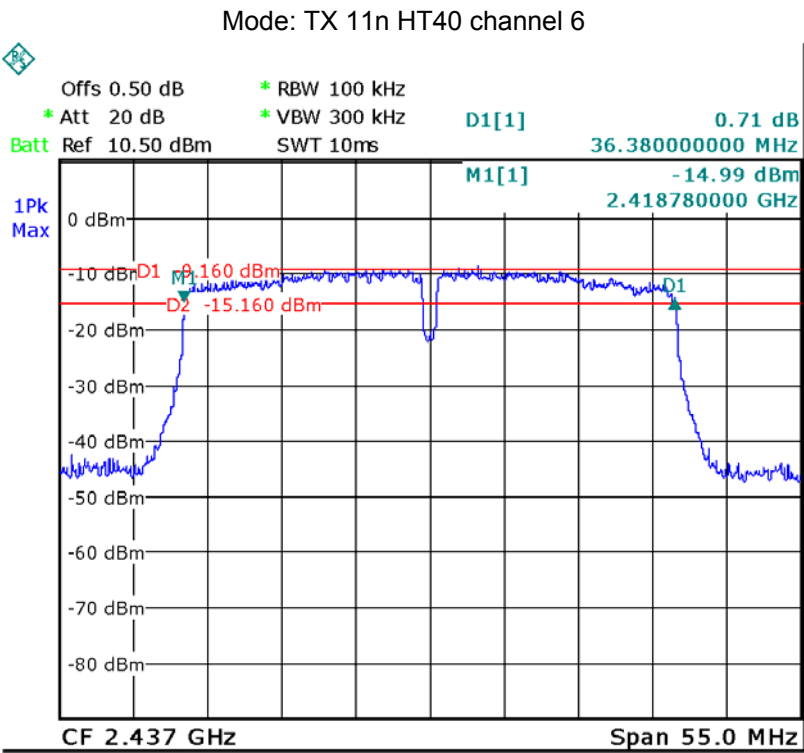


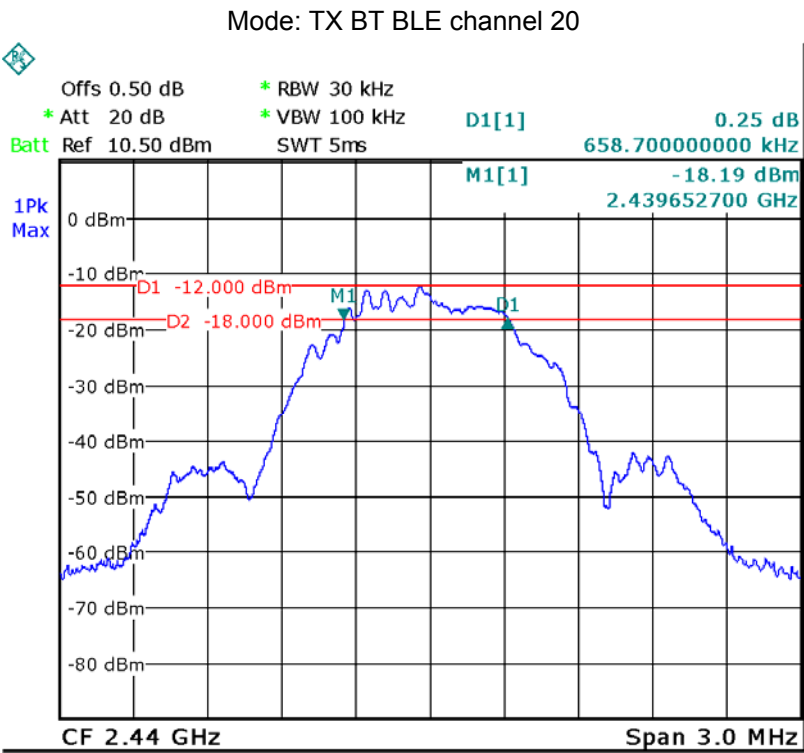
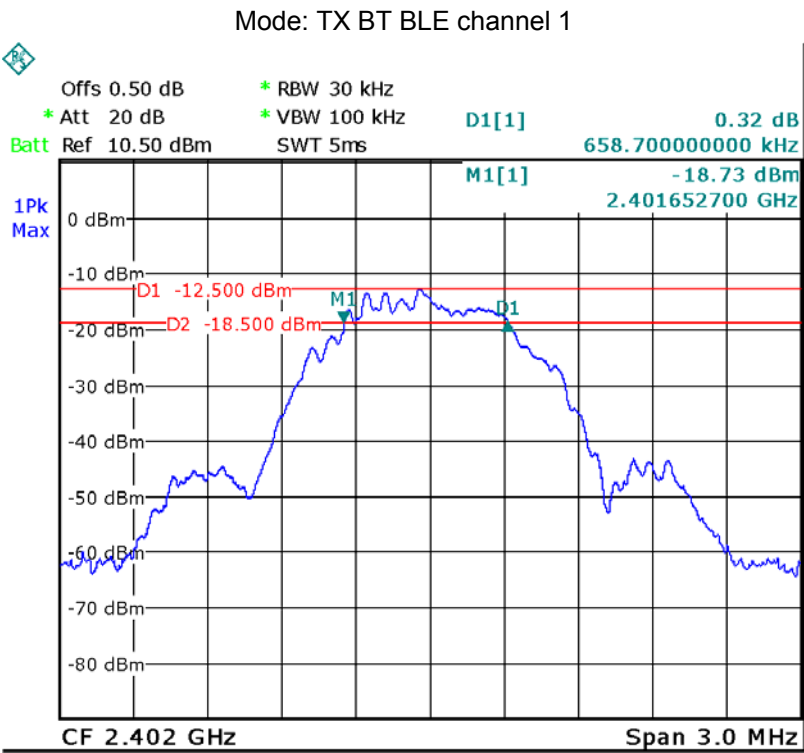


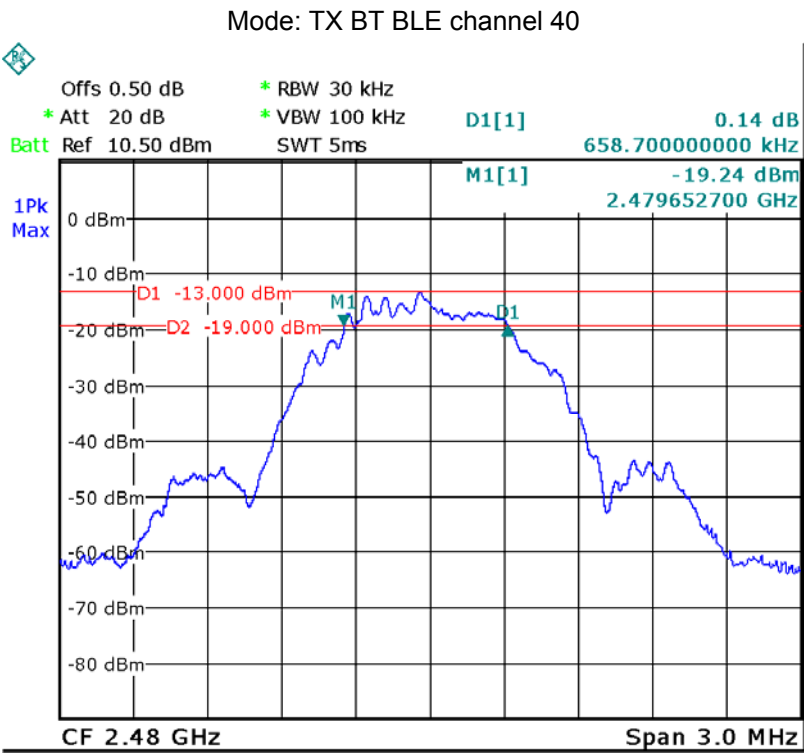












## 10 Maximum Peak Output Power

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB 558074 D01 v03r02 06/05/2014

### 10.1 Test Procedure:

KDB 558074 D01 v03r02 06/05/2014

section 9.1.1

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the  $RBW \geq DTS$  bandwidth.
- b) Set  $VBW \geq 3 \times RBW$ .
- c) Set  $span \geq 3 \times RBW$ .
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

section 9.1.2

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- a) Set the  $RBW = 1 \text{ MHz}$ .
- b) Set the  $VBW \geq 3 \times RBW$ .
- c) Set the  $span \geq 1.5 \times DTS$  bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) 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 peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

**10.2 Test Result:**

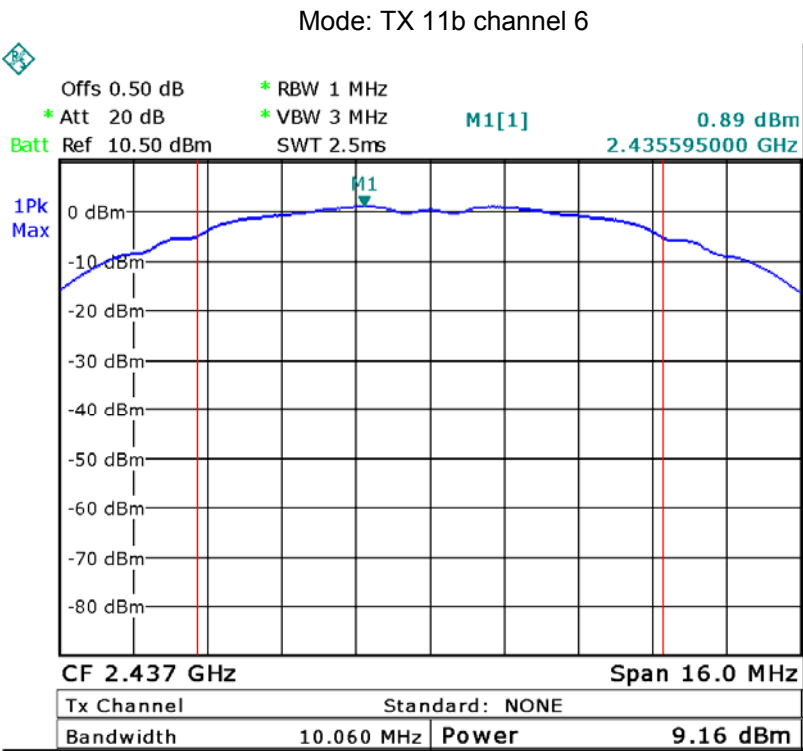
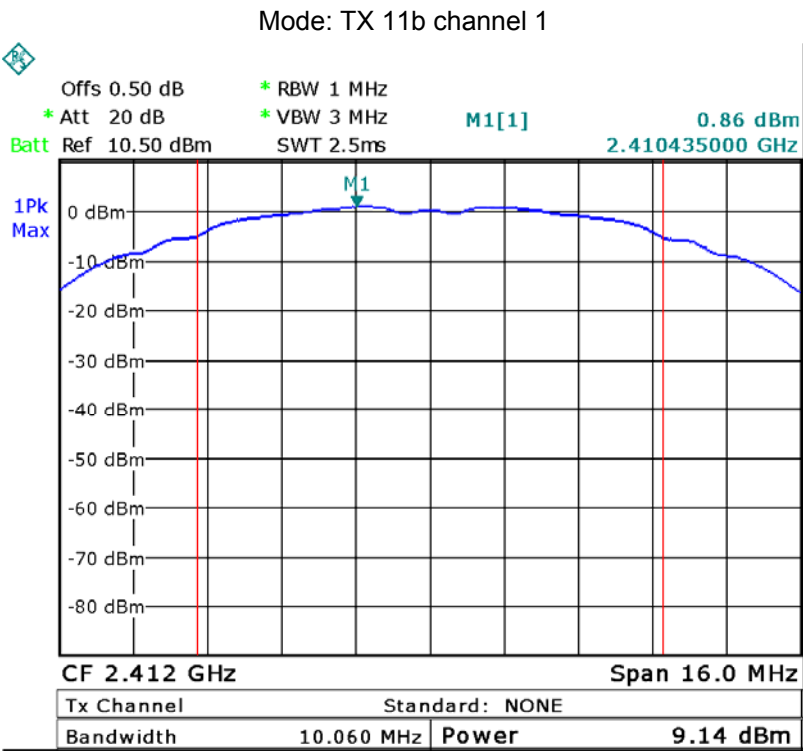
Test mode :TX 11b		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.14	9.16	9.15
Limit: 1W/30dBm		
1W/30dBm		

Test mode :TX 11g		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.19	9.26	9.40
Limit		
1W/30dBm		

Test mode :TX 11n HT20		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.23	9.16	9.20
Limit		
1W/30dBm		

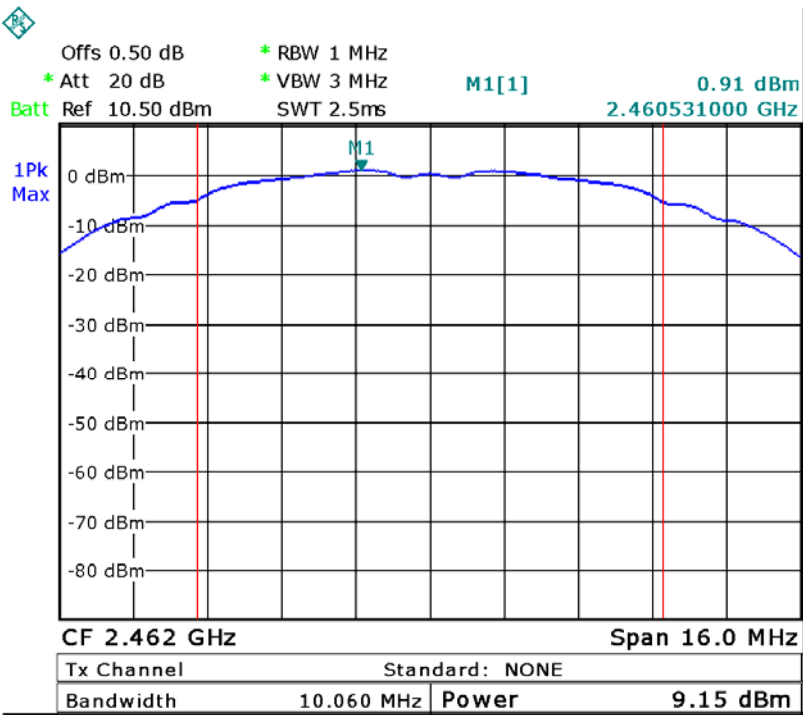
Test mode : TX 11n HT40		
10 Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.14	9.21	9.18
Limit		
1W/30dBm		

Test mode : TX BT BLE		
10 Maximum Peak Output Power (dBm)		
2402MHz	2440MHz	2480MHz
-7.95	-7.34	-7.93
Limit		
1W/30dBm		

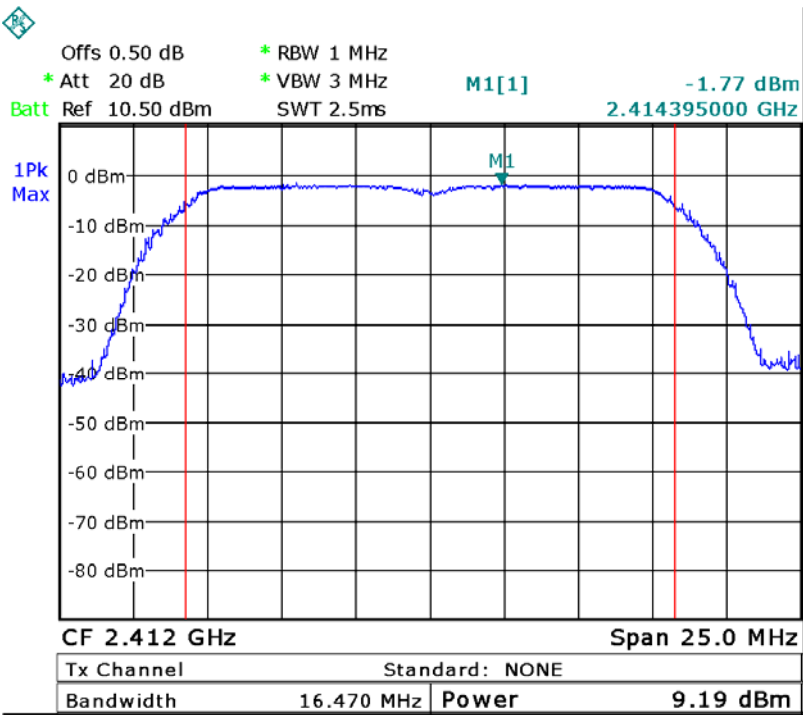


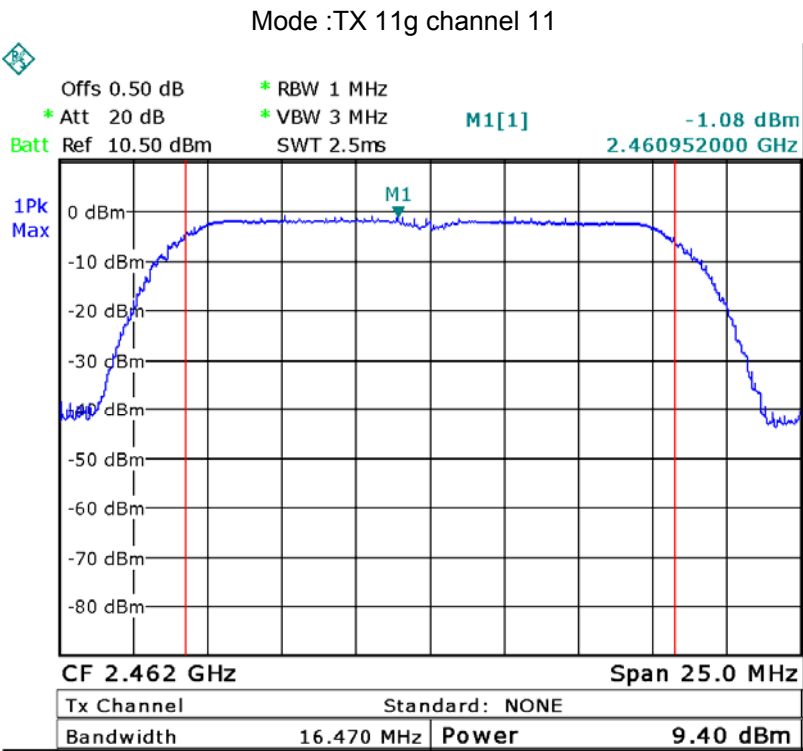
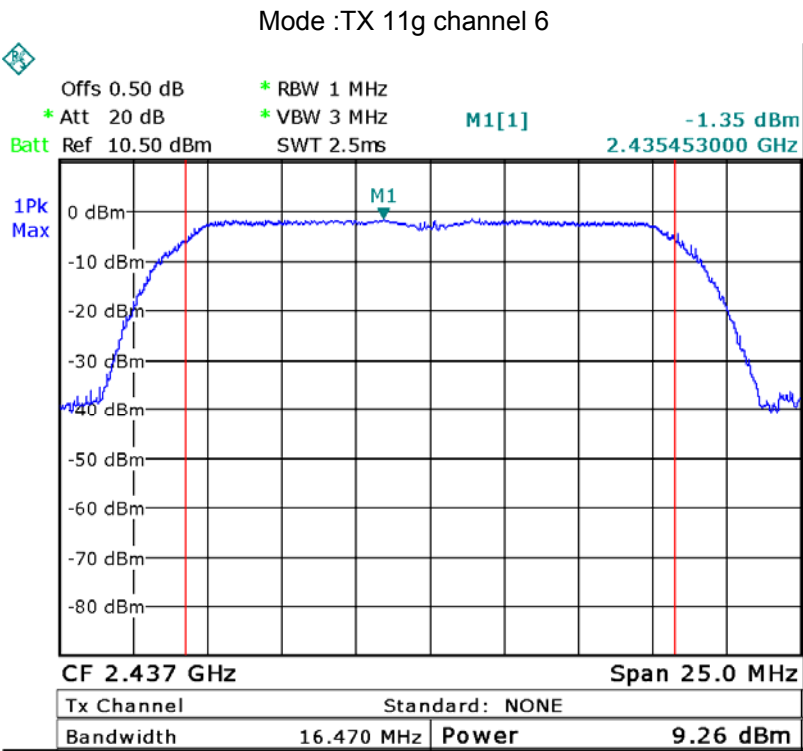


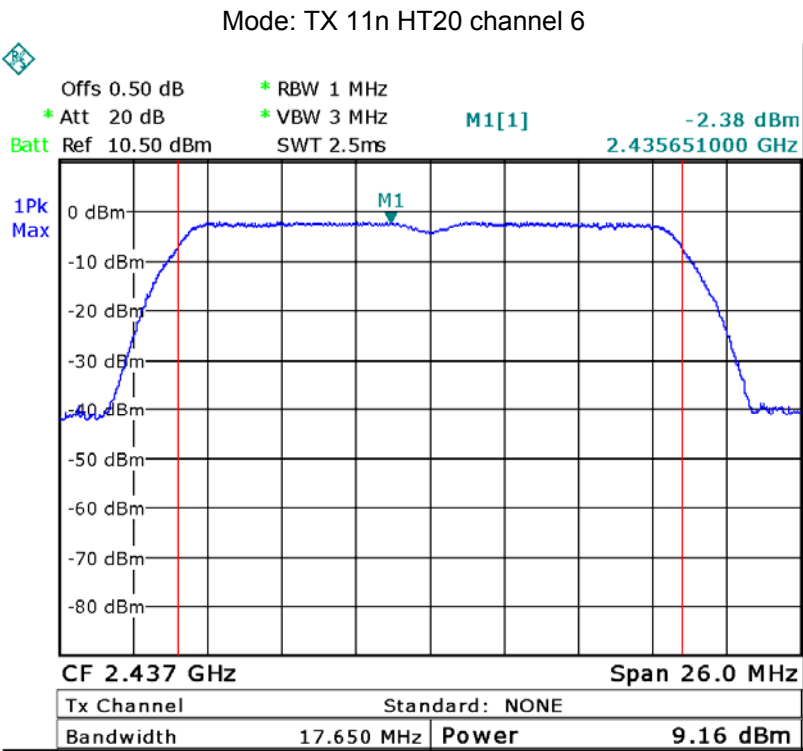
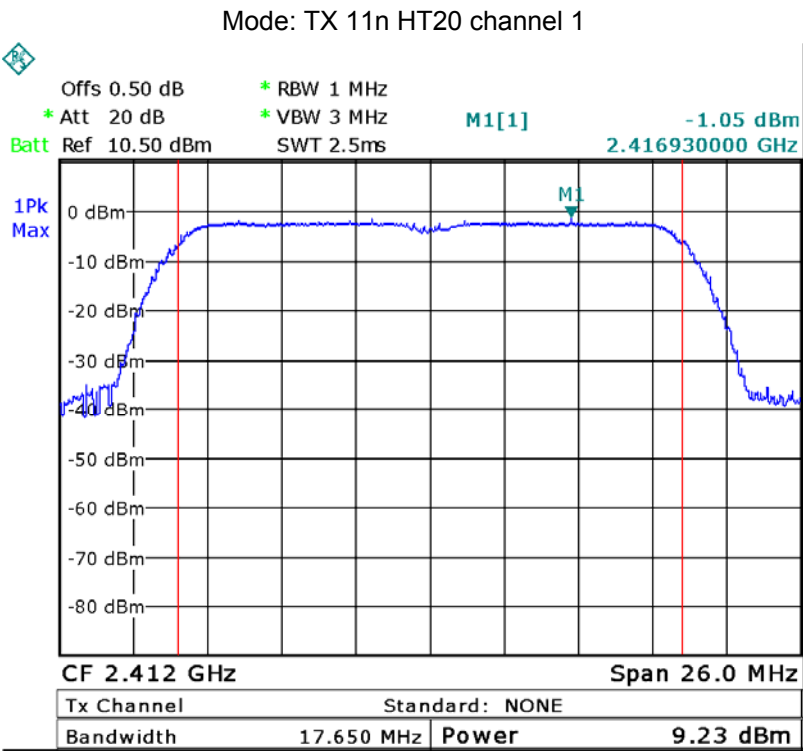
Mode: TX 11b channel 11



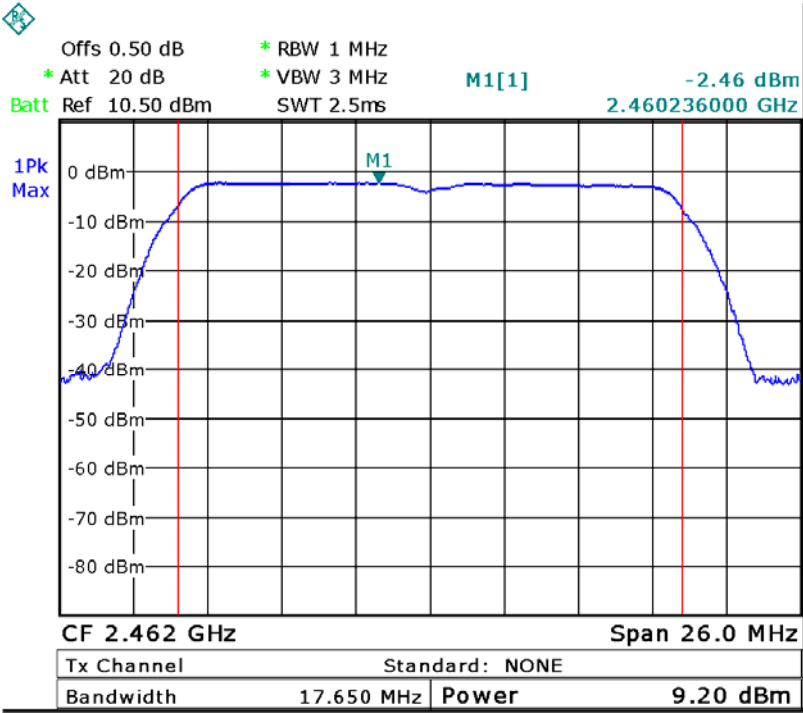
Mode :TX 11g channel 1



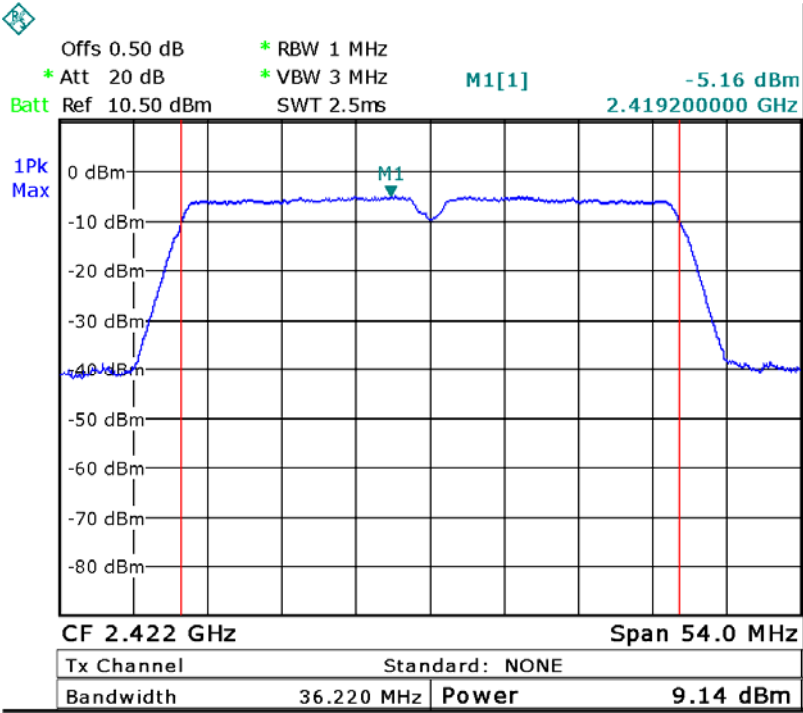




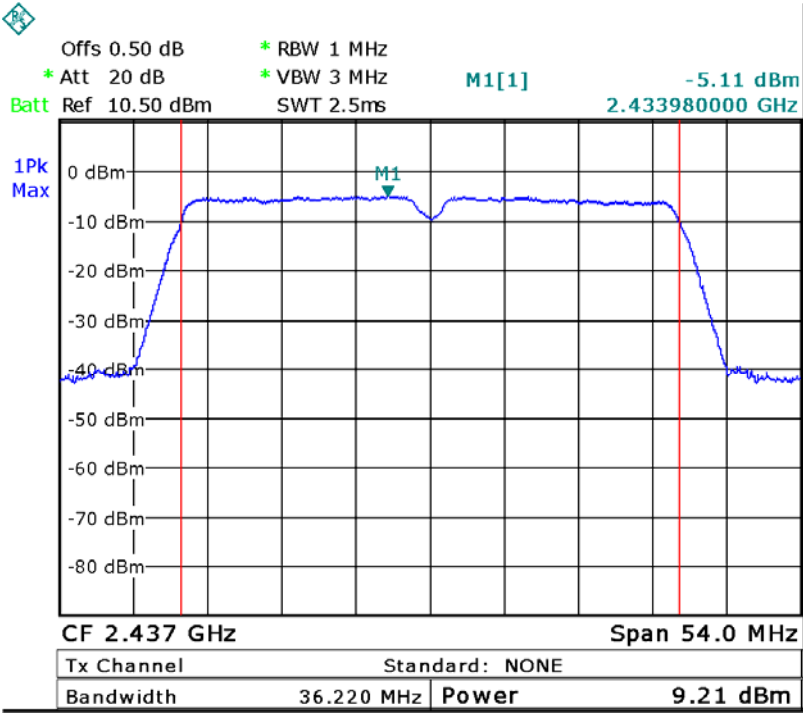
Mode: TX 11n HT20 channel 11



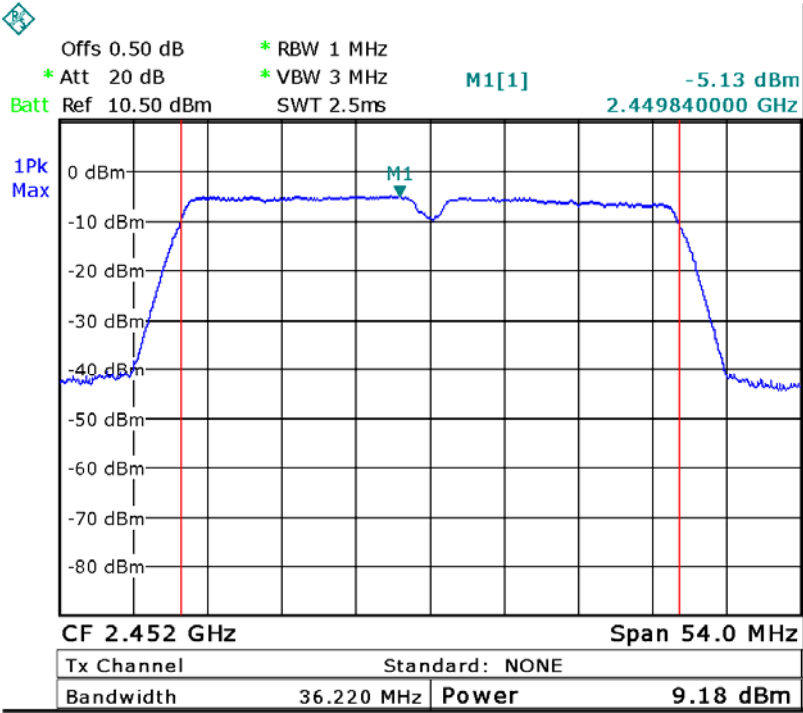
Mode: TX 11n HT40 channel 3

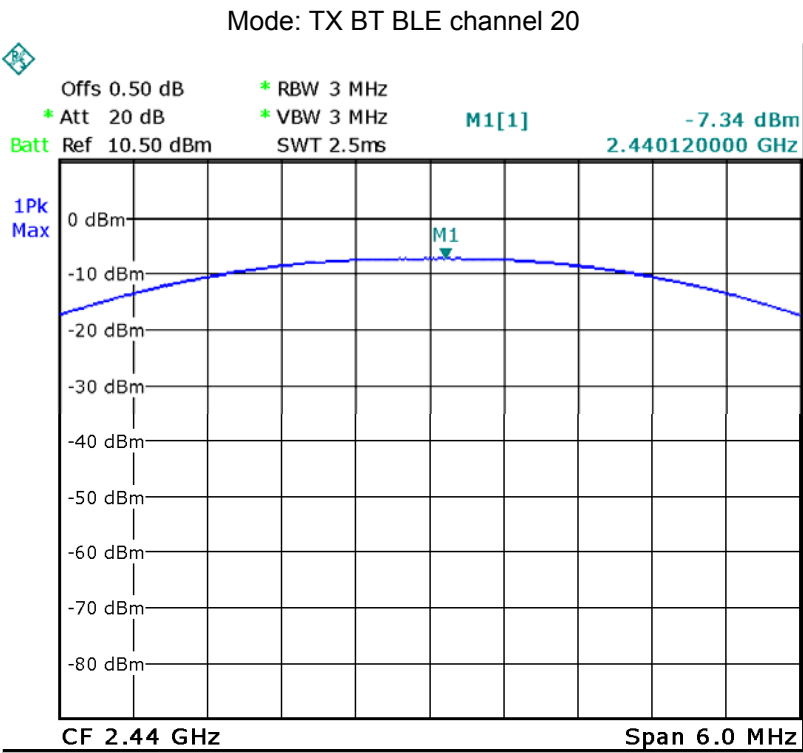
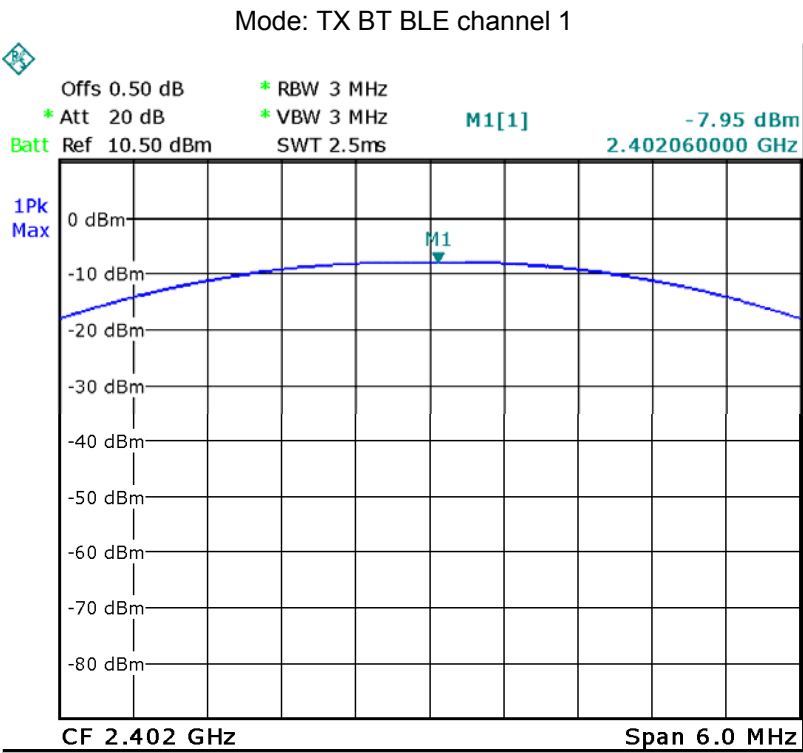


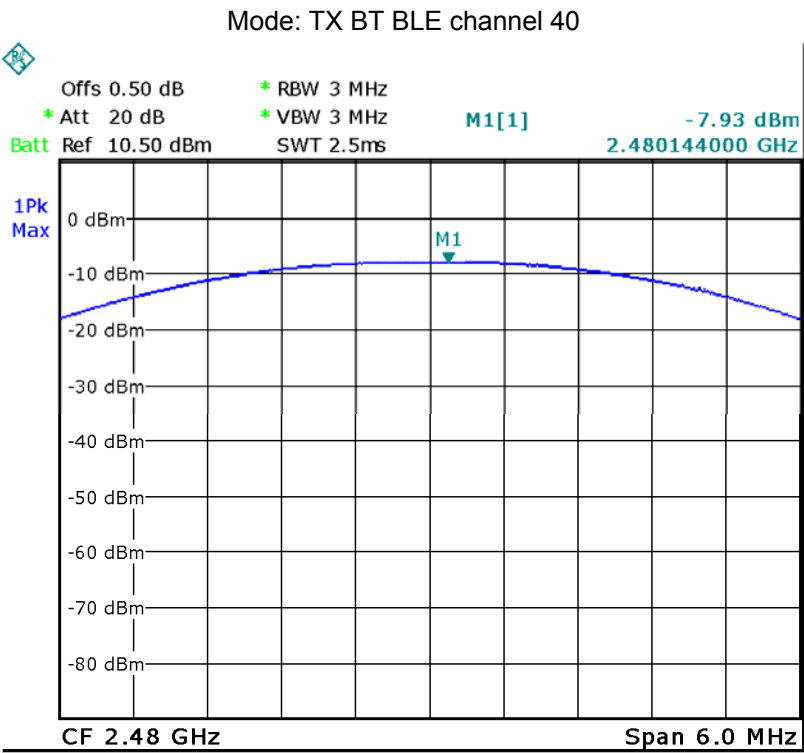
Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 9







## 11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 v03r02 06/05/2014

### 11.1 Test Procedure:

KDB 558074 D01 v03r02 06/05/2014 section 10.2

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

### 11.2 Test Result:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-17.12	-17.23	-17.62
Limit:		
8dBm per 3kHz		

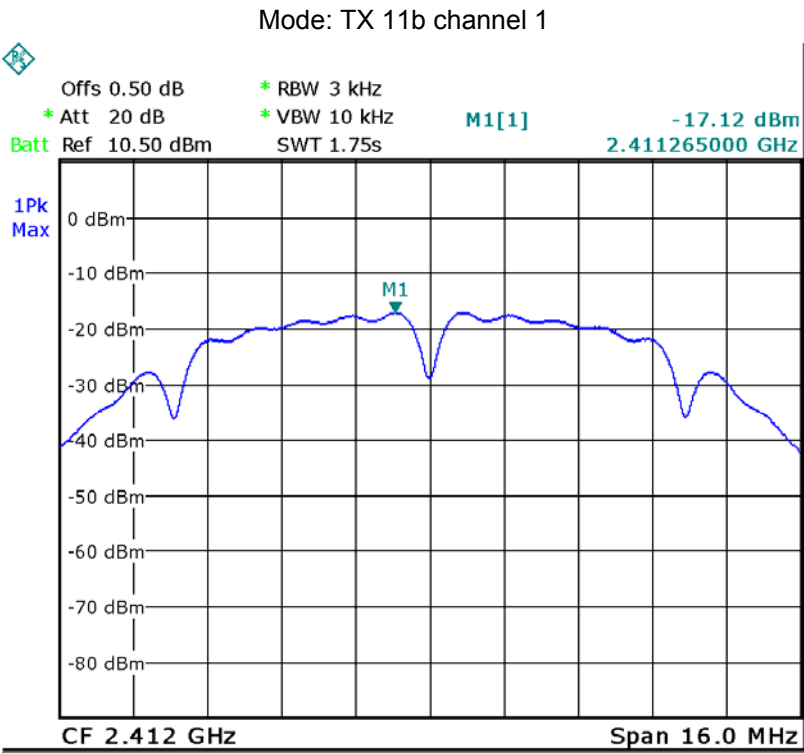
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-18.71	-18.81	-19.33
Limit		
8dBm per 3kHz		

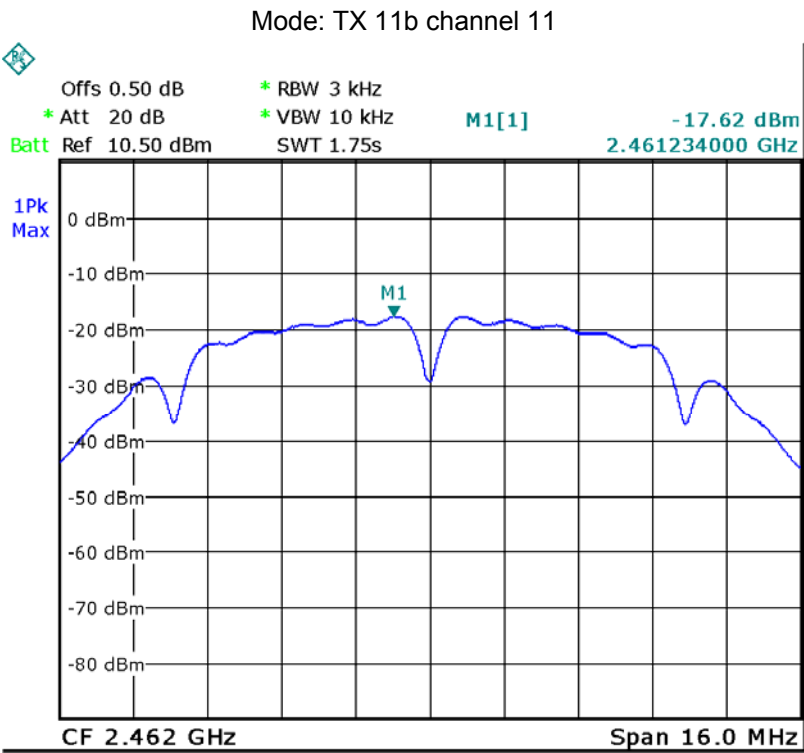
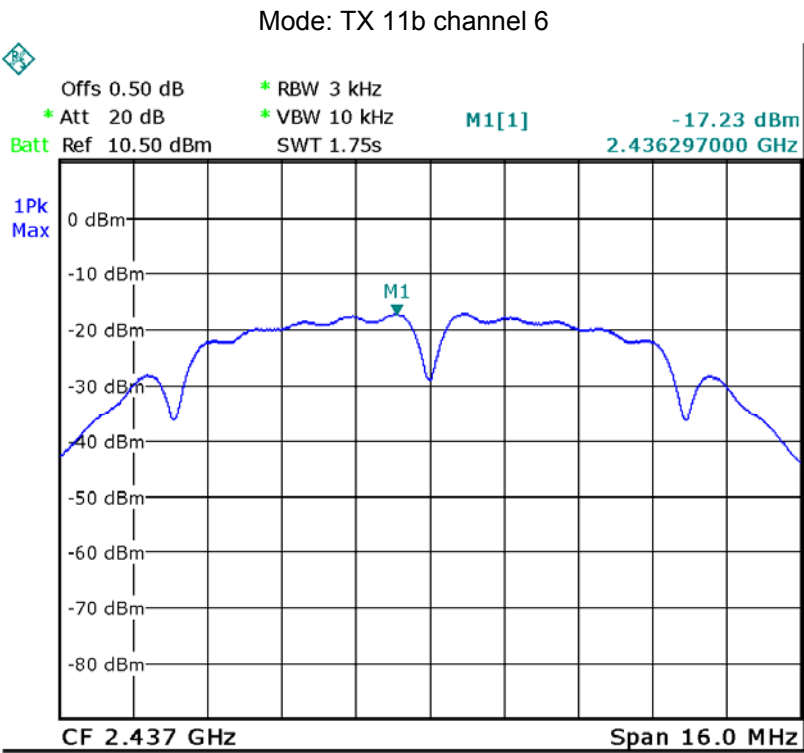
Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-18.40	-17.81	-18.80
Limit		
8dBm per 3kHz		

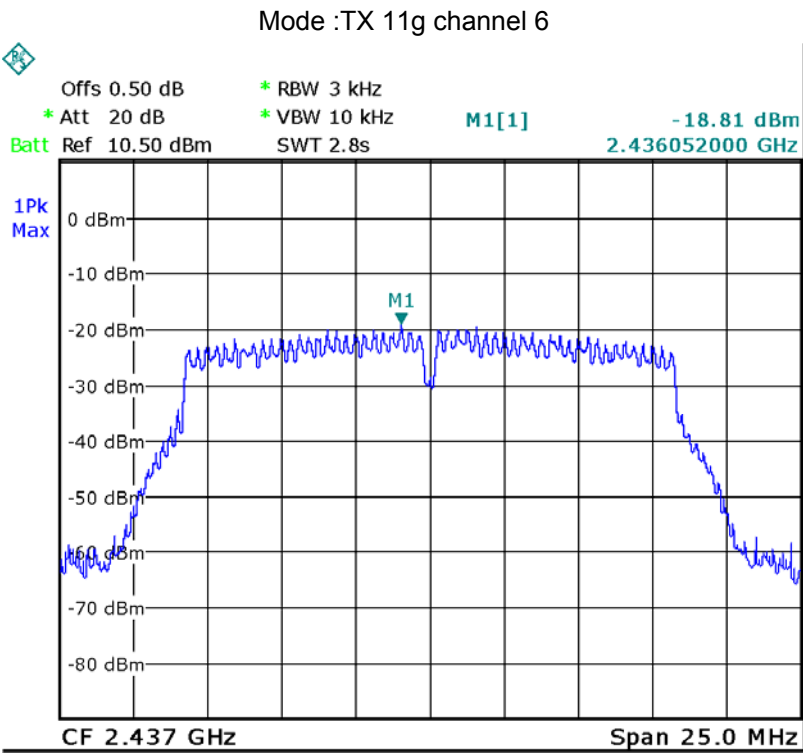
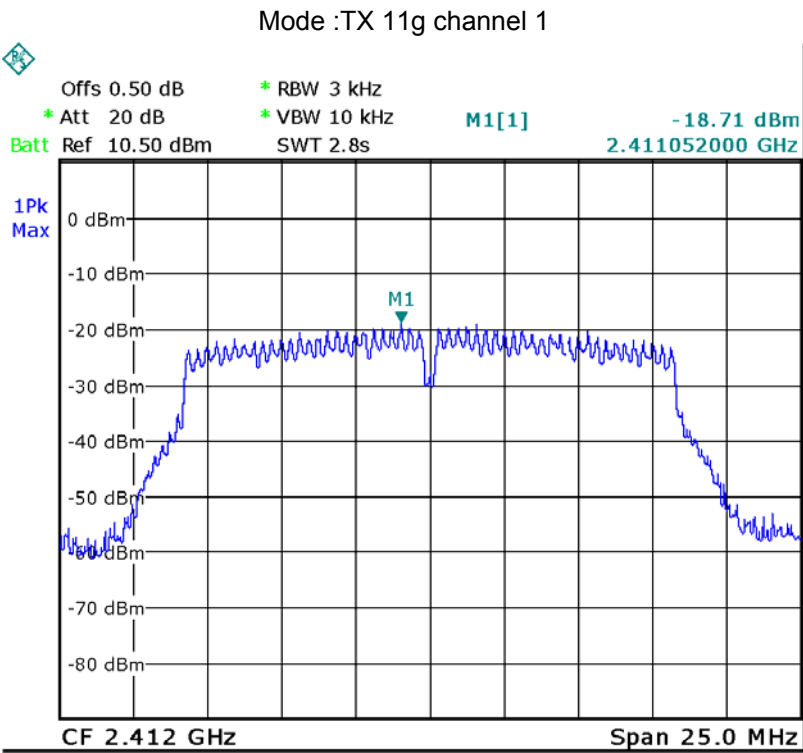
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-21.66	-21.50	-23.16
Limit		
8dBm per 3kHz		

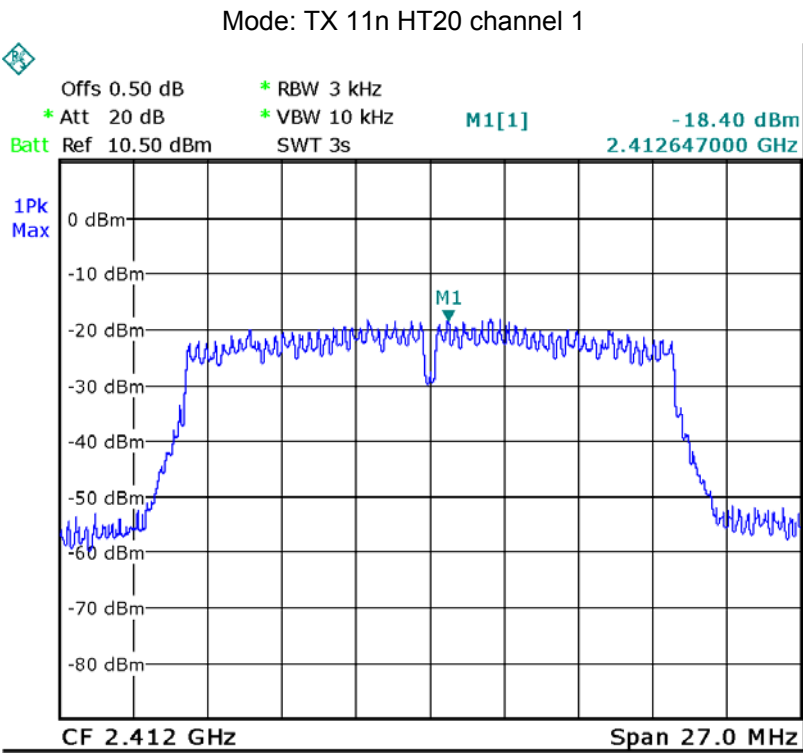
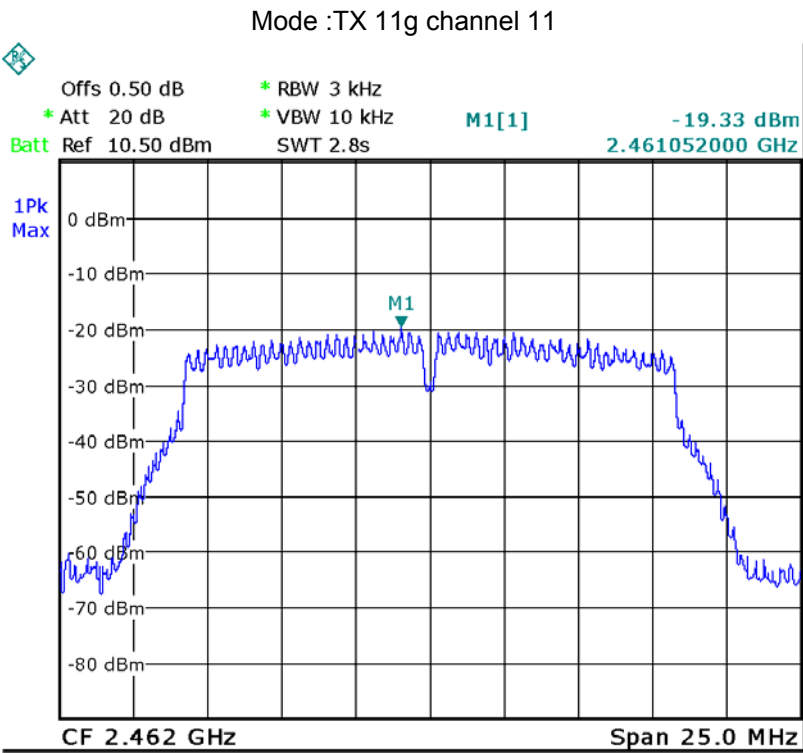


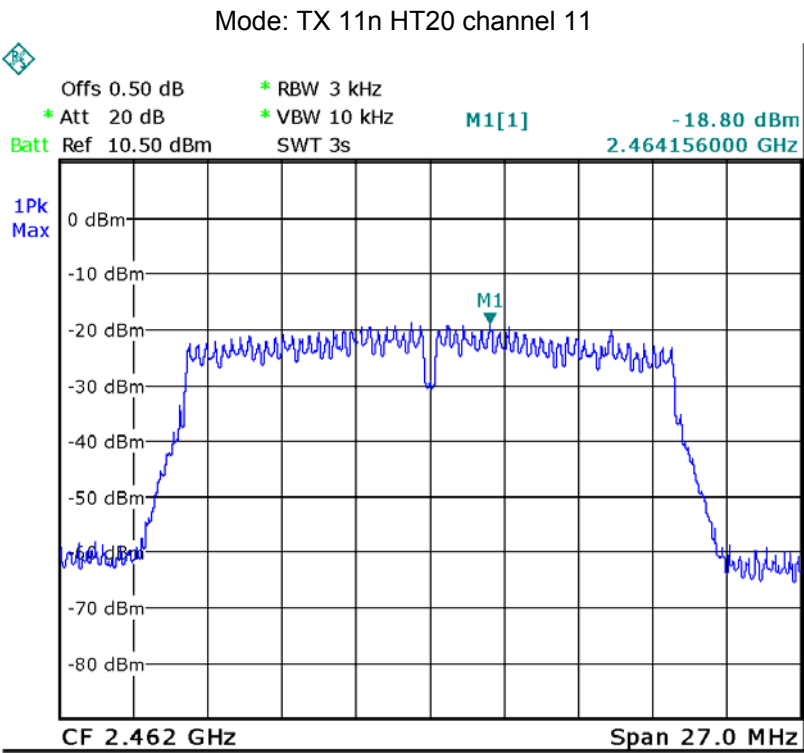
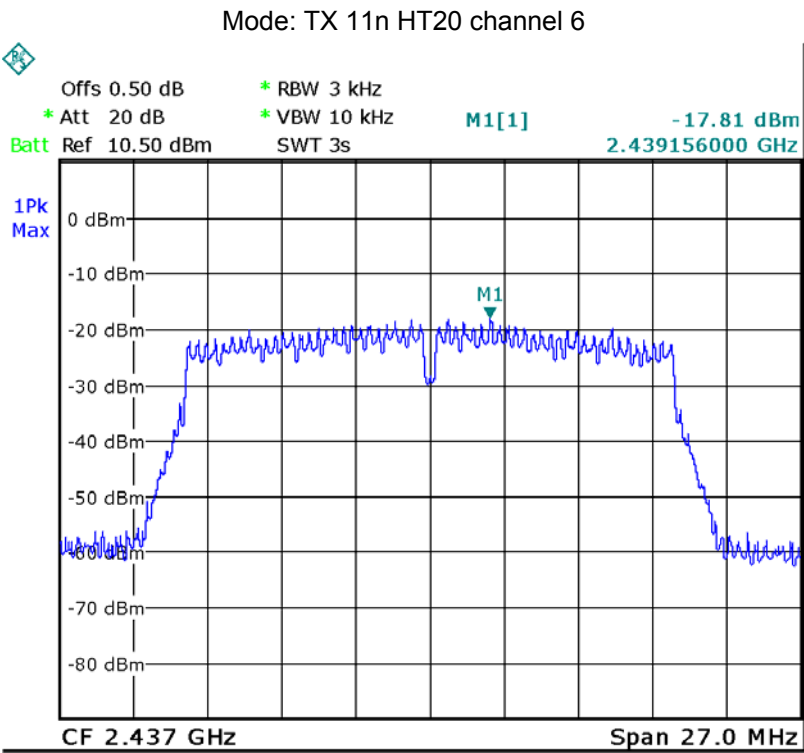
Test mode : TX BT BLE		
Power Spectral (dBm per 3kHz)		
2402MHz	2440MHz	2480MHz
-23.85	-23.47	-24.57
Limit		
8dBm per 3kHz		

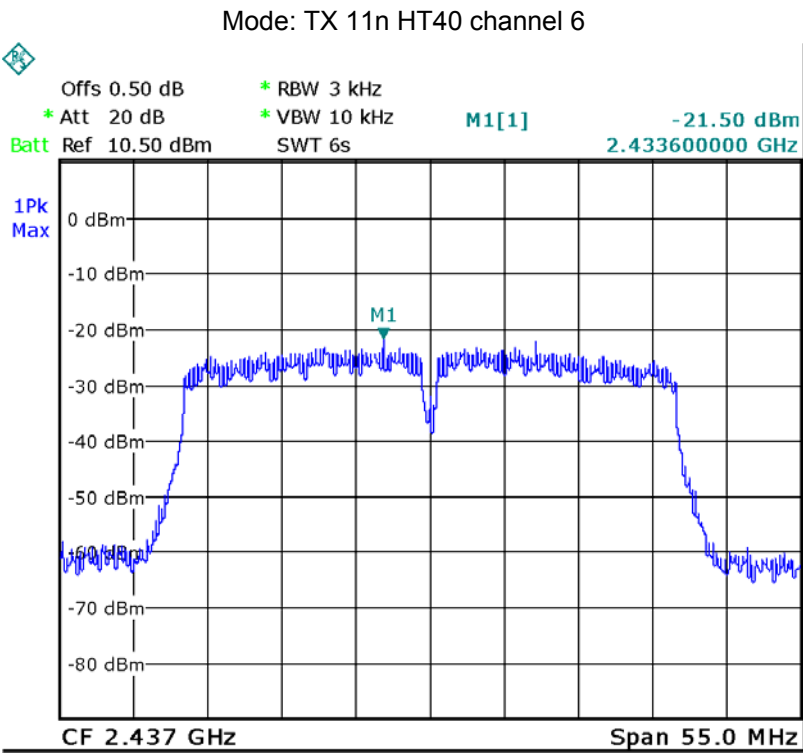
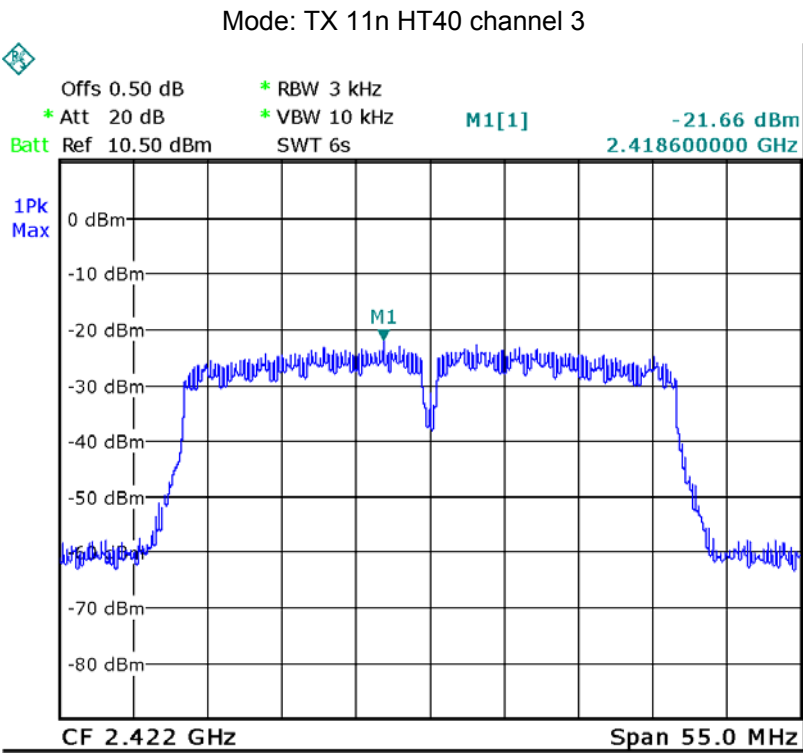


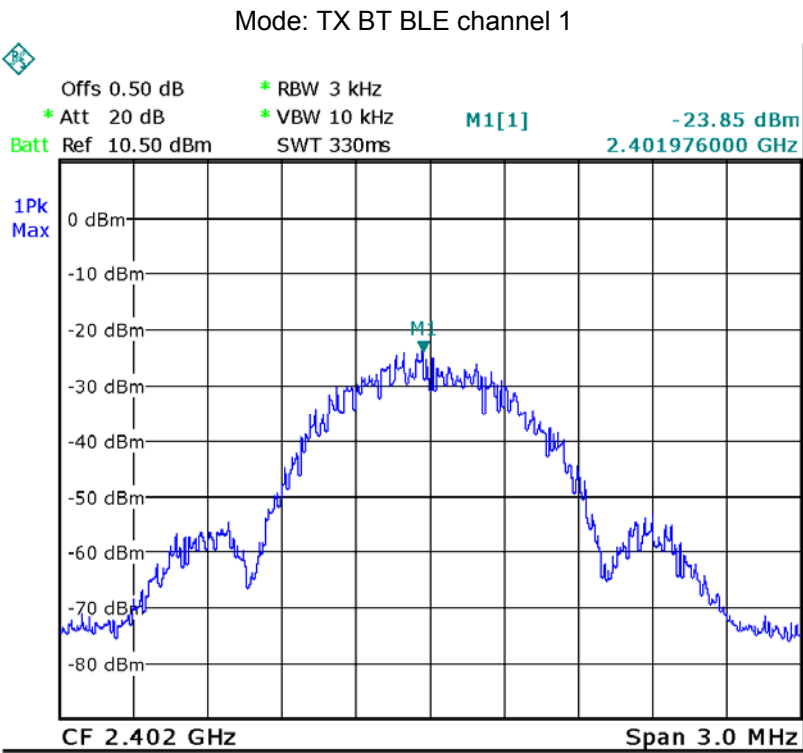
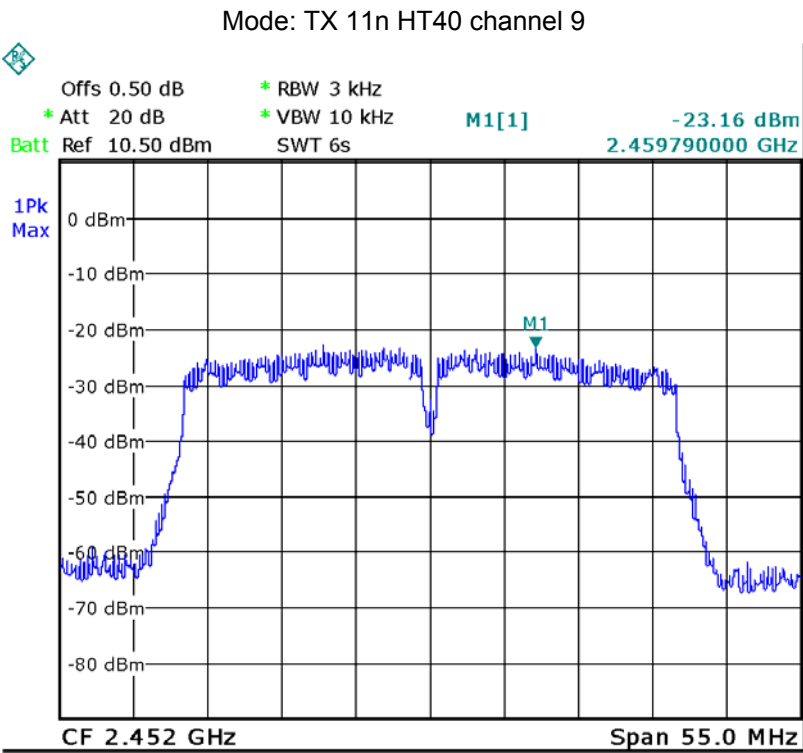


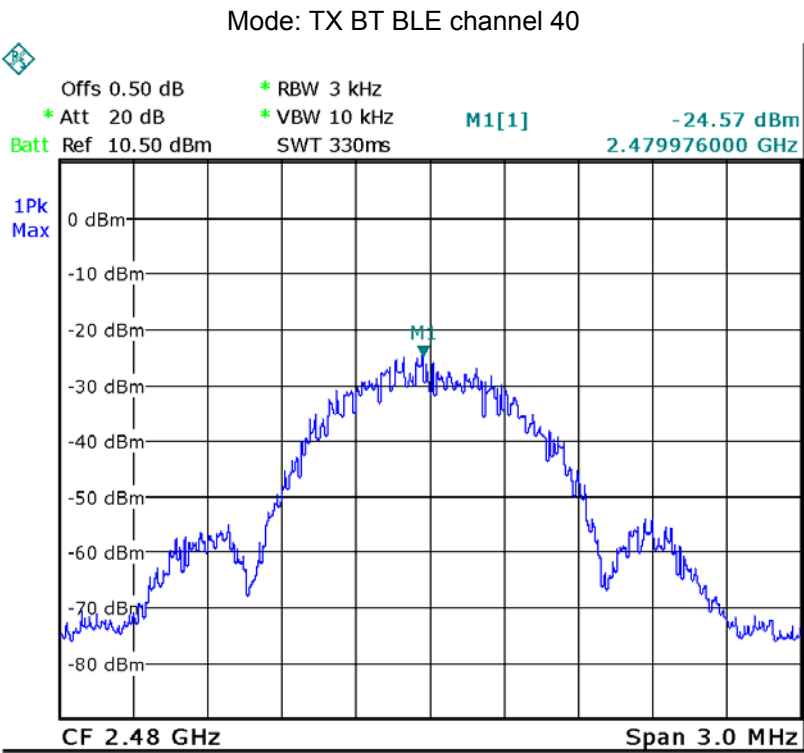
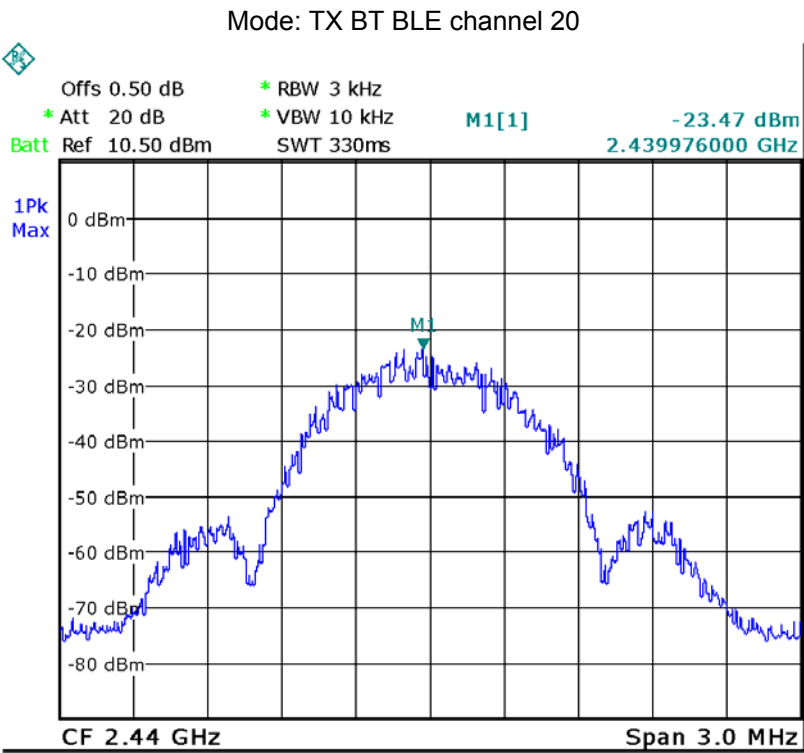














## **12 Antenna Requirement**

According to the FCC Part 15 Paragraph 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. This product has a integrated antenna fulfil the requirement of this section.

## 13 RF Exposure

Remark: refer to SAR test report: STR14128116H.

=====End of Report=====