TEST REPORT

Reference No.	:	WTS15S0627748-2E
FCC ID.....	:	2ADTE-Y100
Applicant	:	Shenzhen KVD Communication Equipment
Address	:	13C, Block C, Shenzhen Electronic Technology Building, Shennan Middle Road, Futian District, Shenzhen City, China
Manufacturer	:	The same as above
Address	:	The same as above
Product Name	:	Mobile phone
Model No.	:	VALENCIA2 Y100
Brand……		DOOGEE
Standards.....	:	FCC CFR47 Part 15 Section 15.247:2014
Date of Receipt sample.....	:	Jun,04, 2015
Date of Test.....	:	Jun.05, 2015 – Jun,15, 2015
Date of Issue	:	Jun.17, 2015
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.

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2 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	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.	: VALENCIA2 Y100
Model Description	: N/A
GSM Band(s)	: GSM 850/900/1800/1900MHz
GPRS Class	: 12
WCDMA Band(s)	: FDD Band I/II/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	: S316-W05
Software Version	: DOOGEE-Valencia2-Y100-Android4.4-V01

4.2 Details of E.U.T.

Operation Frequency	: GSM/GPRS850: 824~849MHz PCS/GPRS/1900: 1850~1910MHz WCDMA Band II: 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: 32.35dBm PCS1900:29.18dBm WCDMA Band II: 22.47dBm WCDMA Band V: 22.66dBm WiFi: 9.48dBm Bluetooth: 4.20dBm
Type of Modulation	: GSM,GPRS: GMSK WCDMA: BPSK WiFi: CCK, OFDM Bluetooth: GFSK, Pi/4 DQPSK,8DPSK
Antenna installation	: GSM/WCDMA: internal permanent antenna WiFi/Bluetooth: internal permanent antenna
Antenna Gain	: GSM 850: -1.0dBi PCS1900: -1.0dBi

WCDMA Band II: -1.0dBi
WCDMA Band V: --1.0dBi
WiFi: 0dBi
Bluetooth: 0dBi

Technical Data :Battery DC 3.8V, 2200mAh
C 5V,1.0A, Charging form adapter
(Adapter Input:100-240V~50/60Hz, 0.16A)

Adapter :: Manufacture: DOOGEE
Model No.: TN-050100U2

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	0/19/39	TX
Power Spectral Density	BT BLE	1 Mbps	0/19/39	TX
6dB Bandwidth	BT BLE	1 Mbps	0/19/39	TX
Band Edge	BT BLE	1 Mbps	0/19/39	TX
Transmitter Spurious Emissions	BT BLE	1 Mbps	0/19/39	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 & 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**

  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, 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 at Mains Terminals Disturbance Voltage						
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						
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.18,2015	Apr.17,2016
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.18,2015	Apr.17,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	669	Apr.18,2015	Apr.17,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Top	1000MHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Sep.15,2014	Sep.14,2015
10	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2015	Apr.09,2016
11	Signal Generator	R&S	SMR20	100046	Sep.15,2014	Sep.14,2015
RF Conducted Testing						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Aug. 15,2014	Aug.14,2015
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Aug. 15,2014	Aug.14,2015
3.	Humidity Chamber	GF	GTH-225-40-1P	IAA061213	Aug. 15,2014	Aug.14,2015

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10^{-6}
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 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 dBμV between 0.15MHz & 0.5MHz
	56 dBμV between 0.5MHz & 5MHz
	60 dBμV between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment **:**

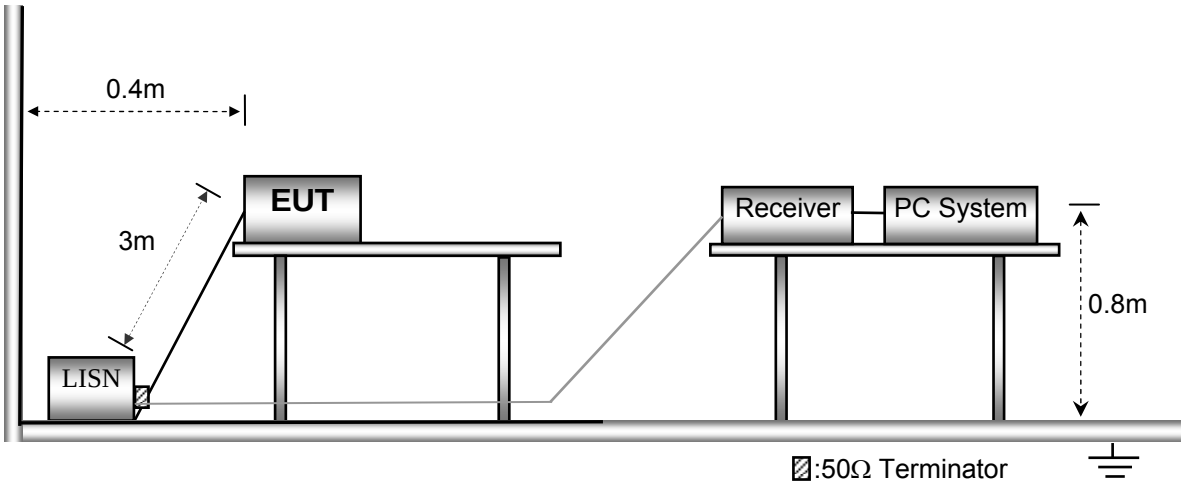
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation **:**

The test was performed in WIFI link 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

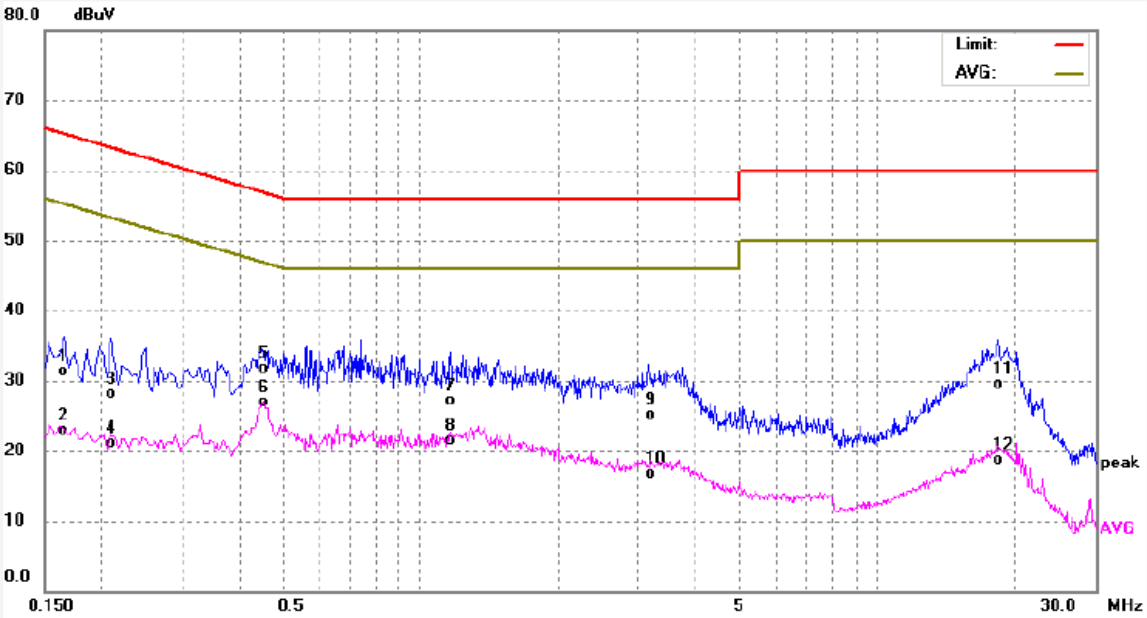
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Conducted Emission Test Result

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

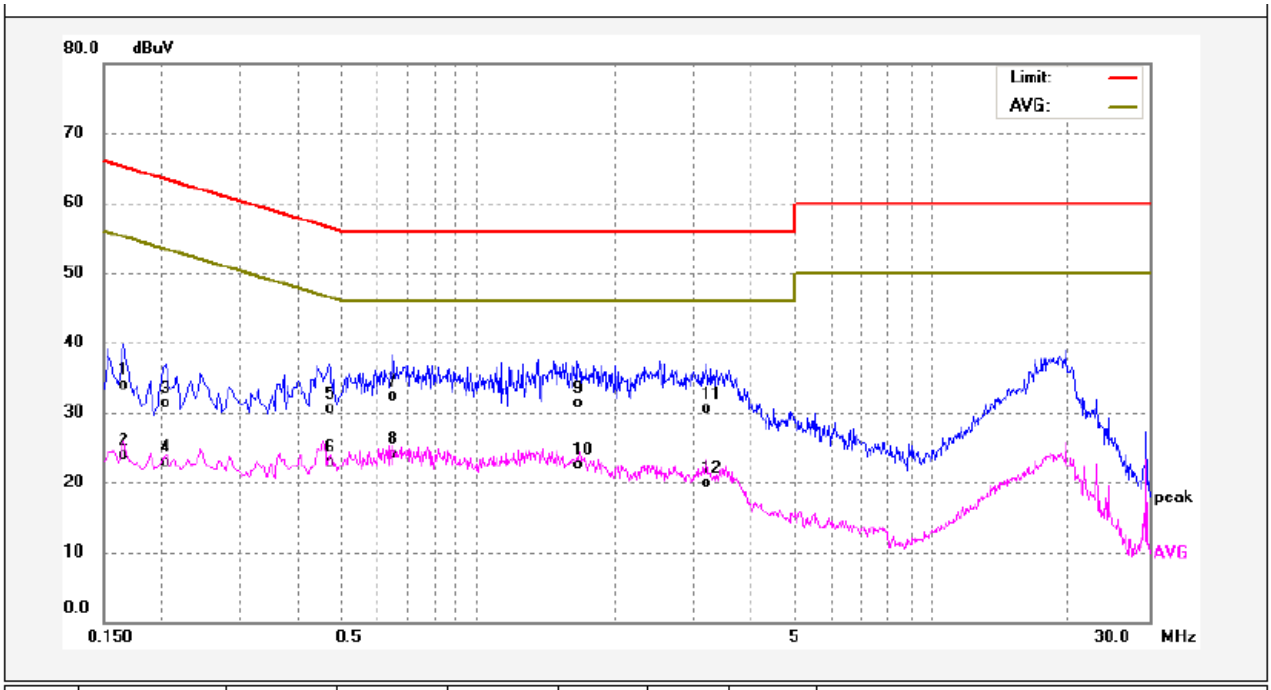
Worst Mode: BT+WIFI mode (Wifi)

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	21.30	10.10	31.40	65.15	-33.75	QP	
2	0.1660	12.88	10.10	22.98	55.15	-32.17	AVG	
3	0.2100	18.10	10.10	28.20	63.20	-35.00	QP	
4	0.2100	11.02	10.10	21.12	53.20	-32.08	AVG	
5	0.4500	21.62	10.12	31.74	56.87	-25.13	QP	
6	0.4500	16.80	10.12	26.92	46.87	-19.95	AVG	
7	1.1620	16.82	10.21	27.03	56.00	-28.97	QP	
8	1.1620	11.25	10.21	21.46	46.00	-24.54	AVG	
9	3.1500	14.82	10.21	25.03	56.00	-30.97	QP	
10	3.1500	6.42	10.21	16.63	46.00	-29.37	AVG	
11	18.3660	18.88	10.57	29.45	60.00	-30.55	QP	
12	18.3660	8.21	10.57	18.78	50.00	-31.22	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	23.73	10.10	33.83	65.15	-31.32	QP	
2	0.1660	13.74	10.10	23.84	55.15	-31.31	AVG	
3	0.2060	21.18	10.10	31.28	63.36	-32.08	QP	
4	0.2060	12.82	10.10	22.92	53.36	-30.44	AVG	
5	0.4700	20.41	10.12	30.53	56.51	-25.98	QP	
6	0.4700	12.86	10.12	22.98	46.51	-23.53	AVG	
7	0.6540	22.11	10.16	32.27	56.00	-23.73	QP	
8	0.6540	13.90	10.16	24.06	46.00	-21.94	AVG	
9	1.6620	21.13	10.20	31.33	56.00	-24.67	QP	
10	1.6620	12.38	10.20	22.58	46.00	-23.42	AVG	
11	3.1940	20.34	10.21	30.55	56.00	-25.45	QP	
12	3.1940	9.76	10.21	19.97	46.00	-26.03	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(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
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

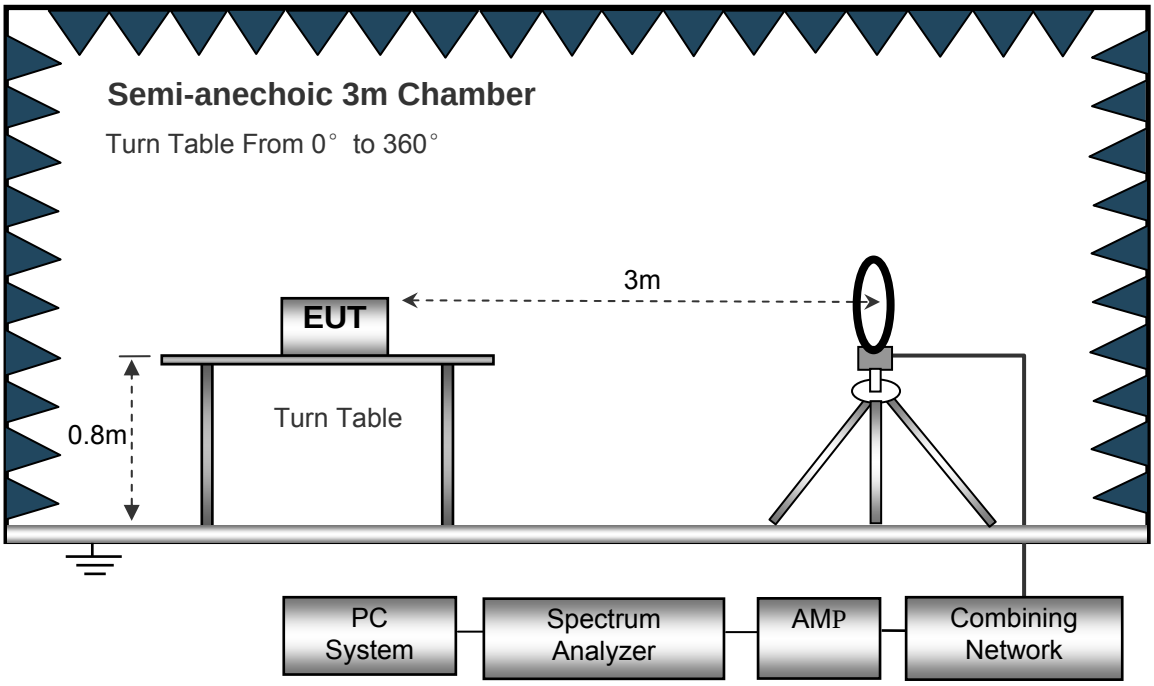
EUT Operation **:**

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

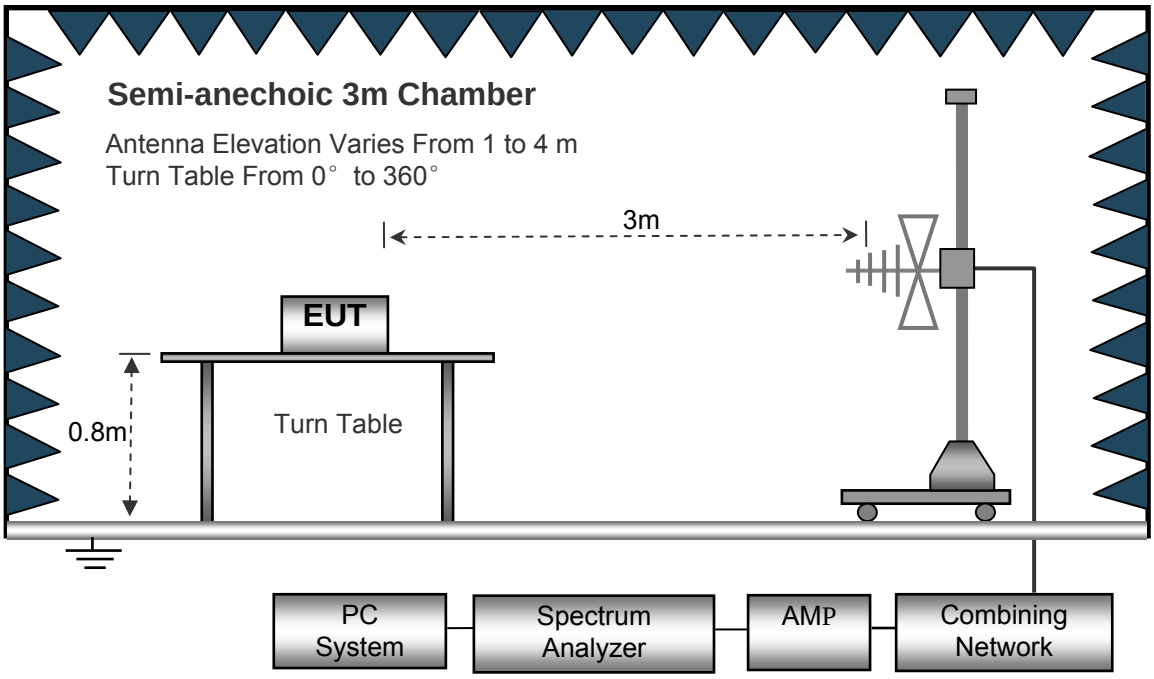
7.2 Test Setup

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

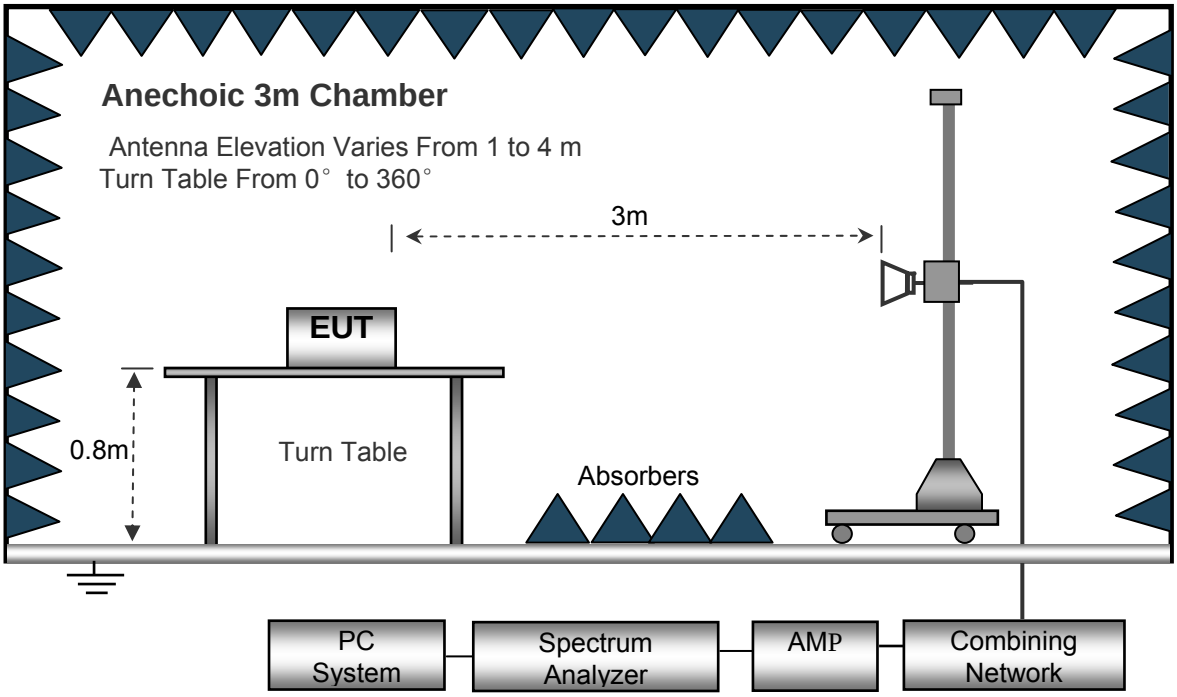
The test setup for emission measurement below 30MHz.



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 druing 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:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - 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:

Margin = Corr. Ampl. – Limit

7.6 Summary of Test Results

Wifi:

Test Frequency : 26MHz ~ 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									
485.79	12.88	QP	333	1.1	H	21.09	33.97	46.50	-12.53
485.79	12.25	QP	48	1.6	V	21.09	33.34	46.50	-13.16
4824.00	50.46	PK	18	1.4	V	-1.07	49.39	74.00	-24.61
4824.00	48.79	Ave	18	1.4	V	-1.07	47.72	54.00	-6.28
7236.00	46.17	PK	52	1.7	H	1.35	47.52	74.00	-26.48
7236.00	45.27	Ave	52	1.7	H	1.35	46.62	54.00	-7.38
2330.44	46.01	PK	212	1.8	V	-13.18	32.83	74.00	-41.17
2330.44	39.58	Ave	212	1.8	V	-13.18	26.40	54.00	-27.60
2364.34	44.13	PK	231	1.5	H	-13.16	30.97	74.00	-43.03
2364.34	38.98	Ave	231	1.5	H	-13.16	25.82	54.00	-28.18
2484.53	42.30	PK	162	1.7	V	-13.19	29.11	74.00	-44.89
2484.53	37.84	Ave	162	1.7	V	-13.19	24.65	54.00	-29.35

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									
485.79	13.27	QP	211	1.9	H	21.09	34.36	46.50	-12.14
485.79	13.29	QP	151	1.3	V	21.09	34.38	46.50	-12.12
4874.00	49.45	PK	292	1.2	V	-0.65	48.80	74.00	-25.20
4874.00	47.13	Ave	292	1.2	V	-0.65	46.48	54.00	-7.52
7311.00	45.28	PK	128	2.0	H	2.23	47.51	74.00	-26.49
7311.00	44.76	Ave	128	2.0	H	2.23	46.99	54.00	-7.01
2342.00	45.09	PK	134	1.4	V	-13.19	31.90	74.00	-42.10
2342.00	39.47	Ave	134	1.4	V	-13.19	26.28	54.00	-27.72
2382.81	42.11	PK	290	1.2	H	-13.16	28.95	74.00	-45.05
2382.81	37.69	Ave	290	1.2	H	-13.16	24.53	54.00	-29.47
2492.34	43.13	PK	213	2.0	V	-13.08	30.05	74.00	-43.95
2492.34	37.03	Ave	213	2.0	V	-13.08	23.95	54.00	-30.05

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									
485.79	14.63	QP	355	1.6	H	21.09	35.72	46.50	-10.78
485.79	12.50	QP	56	1.5	V	21.09	33.59	46.50	-12.91
4924.00	50.38	PK	195	1.9	V	-0.25	50.13	74.00	-23.87
4924.00	48.76	Ave	195	1.9	V	-0.25	48.51	54.00	-5.49
7386.00	48.25	PK	150	1.0	H	2.86	51.11	74.00	-22.89
7386.00	47.39	Ave	150	1.0	H	2.86	50.25	54.00	-3.75
2316.30	46.90	PK	323	1.5	V	-13.19	33.71	74.00	-40.29
2316.30	38.19	Ave	323	1.5	V	-13.19	25.00	54.00	-29.00
2358.05	45.00	PK	19	1.9	H	-13.14	31.86	74.00	-42.14
2358.05	36.55	Ave	19	1.9	H	-13.14	23.41	54.00	-30.59
2492.22	44.69	PK	164	1.6	V	-13.08	31.61	74.00	-42.39
2492.22	37.63	Ave	164	1.6	V	-13.08	24.55	54.00	-29.45

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									
485.79	13.30	QP	203	1.0	H	21.09	34.39	46.50	-12.11
485.79	13.24	QP	182	2.0	V	21.09	34.33	46.50	-12.17
4824.00	51.67	PK	296	1.6	V	-1.06	50.61	74.00	-23.39
4824.00	48.39	Ave	296	1.6	V	-1.06	47.33	54.00	-6.67
7236.00	47.18	PK	81	1.6	H	1.33	48.51	74.00	-25.49
7236.00	46.47	Ave	81	1.6	H	1.33	47.80	54.00	-6.20
2334.41	45.35	PK	269	2.0	V	-13.19	32.16	74.00	-41.84
2334.41	39.98	Ave	269	2.0	V	-13.19	26.79	54.00	-27.21
2357.71	44.87	PK	123	1.7	H	-13.14	31.73	74.00	-42.27
2357.71	36.47	Ave	123	1.7	H	-13.14	23.33	54.00	-30.67
2486.32	43.75	PK	128	2.0	V	-13.08	30.67	74.00	-43.33
2486.32	37.80	Ave	128	2.0	V	-13.08	24.72	54.00	-29.28

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									
485.79	14.02	QP	259	1.6	H	21.09	35.11	46.50	-11.39
485.79	13.05	QP	274	1.4	V	21.09	34.14	46.50	-12.36
4874.00	49.68	PK	359	1.6	V	-0.62	49.06	74.00	-24.94
4874.00	48.72	Ave	359	1.6	V	-0.62	48.10	54.00	-5.90
7311.00	47.48	PK	227	1.9	H	2.21	49.69	74.00	-24.31
7311.00	46.22	Ave	227	1.9	H	2.21	48.43	54.00	-5.57
2344.58	45.13	PK	179	1.4	V	-13.19	31.94	74.00	-42.06
2344.58	37.31	Ave	179	1.4	V	-13.19	24.12	54.00	-29.88
2377.21	44.99	PK	338	1.6	H	-13.14	31.85	74.00	-42.15
2377.21	36.55	Ave	338	1.6	H	-13.14	23.41	54.00	-30.59
2496.30	44.58	PK	3	1.5	V	-13.08	31.50	74.00	-42.50
2496.30	37.58	Ave	3	1.5	V	-13.08	24.50	54.00	-29.50

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									
485.79	14.46	QP	263	1.4	H	21.09	35.55	46.50	-10.95
485.79	14.05	QP	199	1.4	V	21.09	35.14	46.50	-11.36
4924.00	50.73	PK	180	1.6	V	-0.24	50.49	74.00	-23.51
4924.00	49.46	Ave	180	1.6	V	-0.24	49.22	54.00	-4.78
7386.00	47.66	PK	306	2.0	H	2.84	50.50	74.00	-23.50
7386.00	46.46	Ave	306	2.0	H	2.84	49.30	54.00	-4.70
2314.61	45.18	PK	81	1.8	V	-13.19	31.99	74.00	-42.01
2314.61	37.09	Ave	81	1.8	V	-13.19	23.90	54.00	-30.10
2373.52	43.42	PK	106	1.5	H	-13.14	30.28	74.00	-43.72
2373.52	37.66	Ave	106	1.5	H	-13.14	24.52	54.00	-29.48
2487.20	43.80	PK	244	1.7	V	-13.08	30.72	74.00	-43.28
2487.20	37.50	Ave	244	1.7	V	-13.08	24.42	54.00	-29.58

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									
485.79	13.57	QP	189	1.3	H	21.09	34.66	46.50	-11.84
485.79	13.75	QP	335	1.8	V	21.09	34.84	46.50	-11.66
4824.00	50.58	PK	56	1.3	V	-1.06	49.52	74.00	-24.48
4824.00	48.90	Ave	56	1.3	V	-1.06	47.84	54.00	-6.16
7236.00	47.04	PK	254	1.8	H	1.33	48.37	74.00	-25.63
7236.00	45.58	Ave	254	1.8	H	1.33	46.91	54.00	-7.09
2331.58	45.29	PK	324	1.4	V	-13.19	32.10	74.00	-41.90
2331.58	38.71	Ave	324	1.4	V	-13.19	25.52	54.00	-28.48
2360.88	43.87	PK	180	1.8	H	-13.14	30.73	74.00	-43.27
2360.88	38.99	Ave	180	1.8	H	-13.14	25.85	54.00	-28.15
2496.86	42.15	PK	44	1.9	V	-13.08	29.07	74.00	-44.93
2496.86	37.20	Ave	44	1.9	V	-13.08	24.12	54.00	-29.88

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									
485.79	12.91	QP	2	1.9	H	21.09	34.00	46.50	-12.50
485.79	13.46	QP	76	1.2	V	21.09	34.55	46.50	-11.95
4874.00	50.35	PK	149	1.7	V	-0.62	49.73	74.00	-24.27
4874.00	48.46	Ave	149	1.7	V	-0.62	47.84	54.00	-6.16
7311.00	47.62	PK	97	1.9	H	2.21	49.83	74.00	-24.17
7311.00	45.33	Ave	97	1.9	H	2.21	47.54	54.00	-6.46
2340.48	45.44	PK	11	2.0	V	-13.19	32.25	74.00	-41.75
2340.48	38.13	Ave	11	2.0	V	-13.19	24.94	54.00	-29.06
2378.05	43.55	PK	307	1.8	H	-13.14	30.41	74.00	-43.59
2378.05	36.75	Ave	307	1.8	H	-13.14	23.61	54.00	-30.39
2490.26	43.03	PK	167	1.7	V	-13.08	29.95	74.00	-44.05
2490.26	37.12	Ave	167	1.7	V	-13.08	24.04	54.00	-29.96

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									
485.79	12.98	QP	10	1.1	H	21.09	34.07	46.50	-12.43
485.79	12.54	QP	213	1.1	V	21.09	33.63	46.50	-12.87
4924.00	50.66	PK	200	1.8	V	-0.24	50.42	74.00	-23.58
4924.00	48.82	Ave	200	1.8	V	-0.24	48.58	54.00	-5.42
7386.00	47.35	PK	171	1.9	H	2.84	50.19	74.00	-23.81
7386.00	45.07	Ave	171	1.9	H	2.84	47.91	54.00	-6.09
2343.04	46.62	PK	157	2.0	V	-13.19	33.43	74.00	-40.57
2343.04	37.85	Ave	157	2.0	V	-13.19	24.66	54.00	-29.34
2360.83	44.11	PK	137	1.5	H	-13.14	30.97	74.00	-43.03
2360.83	36.58	Ave	137	1.5	H	-13.14	23.44	54.00	-30.56
2499.97	42.09	PK	324	1.3	V	-13.08	29.01	74.00	-44.99
2499.97	38.59	Ave	324	1.3	V	-13.08	25.51	54.00	-28.49

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									
485.79	14.39	QP	35	1.2	H	21.09	35.48	46.50	-11.02
485.79	14.12	QP	246	1.4	V	21.09	35.21	46.50	-11.29
4844.00	50.75	PK	295	1.6	V	-1.06	49.69	74.00	-24.31
4844.00	48.53	Ave	295	1.6	V	-1.06	47.47	54.00	-6.53
7266.00	48.22	PK	154	1.5	H	1.33	49.55	74.00	-24.45
7266.00	47.86	Ave	154	1.5	H	1.33	49.19	54.00	-4.81
2315.06	45.45	PK	75	1.2	V	-13.19	32.26	74.00	-41.74
2315.06	38.06	Ave	75	1.2	V	-13.19	24.87	54.00	-29.13
2377.97	43.18	PK	217	1.7	H	-13.14	30.04	74.00	-43.96
2377.97	38.53	Ave	217	1.7	H	-13.14	25.39	54.00	-28.61
2489.47	44.17	PK	271	1.6	V	-13.08	31.09	74.00	-42.91
2489.47	36.73	Ave	271	1.6	V	-13.08	23.65	54.00	-30.35

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									
485.79	13.49	QP	144	2.0	H	21.09	34.58	46.50	-11.92
485.79	13.61	QP	23	1.3	V	21.09	34.70	46.50	-11.80
4874.00	49.05	PK	250	1.9	V	-0.62	48.43	74.00	-25.57
4874.00	48.43	Ave	250	1.9	V	-0.62	47.81	54.00	-6.19
7311.00	47.36	PK	98	1.4	H	2.21	49.57	74.00	-24.43
7311.00	46.87	Ave	98	1.4	H	2.21	49.08	54.00	-4.92
2326.29	45.45	PK	272	1.1	V	-13.19	32.26	74.00	-41.74
2326.29	37.01	Ave	272	1.1	V	-13.19	23.82	54.00	-30.18
2374.33	42.04	PK	156	1.3	H	-13.14	28.90	74.00	-45.10
2374.33	36.49	Ave	156	1.3	H	-13.14	23.35	54.00	-30.65
2495.55	42.36	PK	197	1.2	V	-13.08	29.28	74.00	-44.72
2495.55	38.79	Ave	197	1.2	V	-13.08	25.71	54.00	-28.29

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									
485.79	14.05	QP	335	1.6	H	21.09	35.14	46.50	-11.36
485.79	12.86	QP	196	2.0	V	21.09	33.95	46.50	-12.55
4904.00	50.85	PK	190	2.0	V	-0.24	50.61	74.00	-23.39
4904.00	48.36	Ave	190	2.0	V	-0.24	48.12	54.00	-5.88
7356.00	48.03	PK	358	1.8	H	2.84	50.87	74.00	-23.13
7356.00	47.81	Ave	358	1.8	H	2.84	50.65	54.00	-3.35
2342.92	45.54	PK	114	1.7	V	-13.19	32.35	74.00	-41.65
2342.92	37.44	Ave	114	1.7	V	-13.19	24.25	54.00	-29.75
2377.81	42.86	PK	101	1.1	H	-13.13	29.73	74.00	-44.27
2377.81	36.06	Ave	101	1.1	H	-13.13	22.93	54.00	-31.07
2494.94	43.05	PK	86	1.1	V	-13.09	29.96	74.00	-44.04
2494.94	37.14	Ave	86	1.1	V	-13.09	24.05	54.00	-29.95

Test Frequency: 18GHz~25GHz

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

BT BLE:

Test Frequency : 26MHz ~ 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									
485.79	13.22	QP	139	1.1	H	21.09	34.31	46.50	-12.19
485.79	12.94	QP	257	1.3	V	21.09	34.03	46.50	-12.47
4804	45.26	PK	242	1.4	V	-1.06	44.2	74.00	-29.80
4804	43.15	Ave	242	1.4	V	-1.06	42.09	54.00	-11.91
7206	44.68	PK	346	1.1	V	1.31	45.99	74.00	-28.01
7206	43.86	Ave	346	1.1	V	1.31	45.17	54.00	-8.83

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									
485.79	13.16	QP	5	1.4	H	21.09	34.25	46.50	-12.25
485.79	12.43	QP	288	1.5	V	21.09	33.52	46.50	-12.98
4880	45.35	PK	270	1.3	V	-0.62	44.73	74.00	-29.27
4880	44.16	Ave	270	1.3	V	-0.62	43.54	54.00	-10.46
7320	44.09	PK	353	1.3	V	2.25	46.34	74.00	-27.66
7320	42.85	Ave	353	1.3	V	2.25	45.1	54.00	-8.90

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									
485.79	14.71	QP	81	1.9	H	21.09	35.80	46.50	-10.70
485.79	13.80	QP	242	1.8	V	21.09	34.89	46.50	-11.61
4960	44.78	PK	324	1.6	V	-0.25	44.53	74.00	-29.47
4960	42.79	Ave	324	1.6	V	-0.25	42.54	54.00	-11.46
7440	43.05	PK	256	1.6	V	2.86	45.91	74.00	-28.09
7440	42.36	Ave	256	1.6	V	2.86	45.22	54.00	-8.78

Test Frequency: 18GHz~25GHz

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

2 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: DA 00-705

Test Result: PASS

Limit:

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

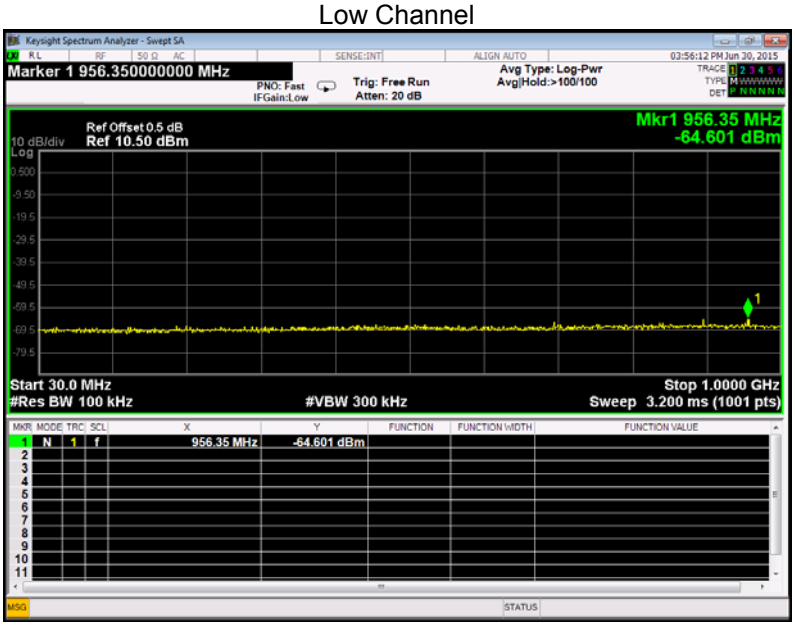
2.1 Test Procedure

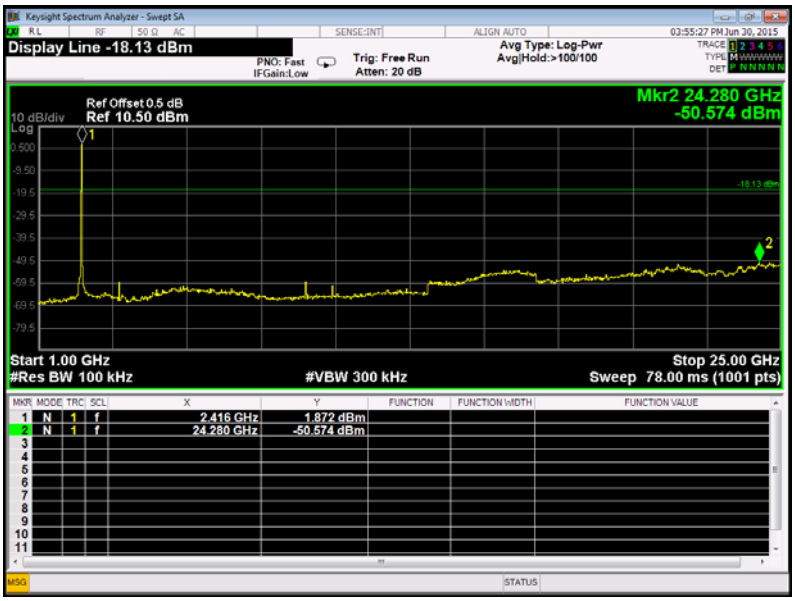
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
   RBW = 100kHz, VBW = 300kHz, Sweep = auto
   Detector function = peak, Trace = max hold

2.2 Test Result

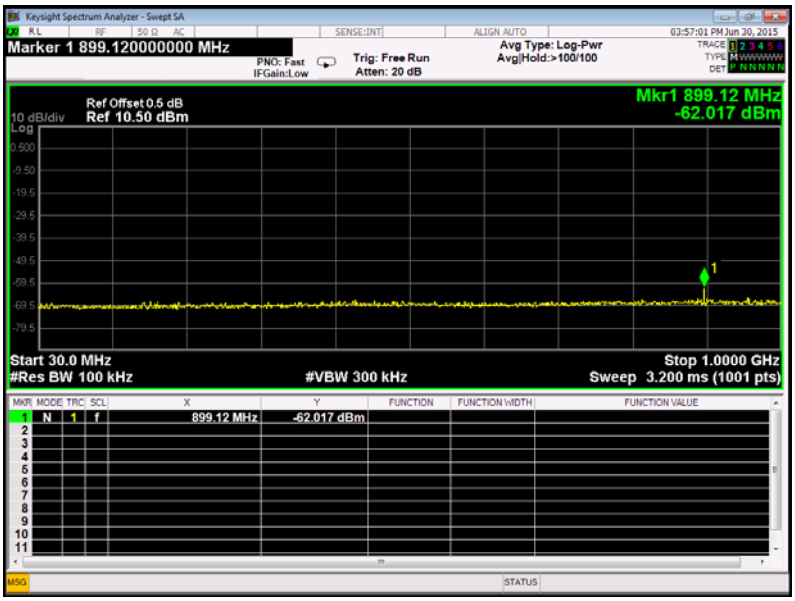
802.11b

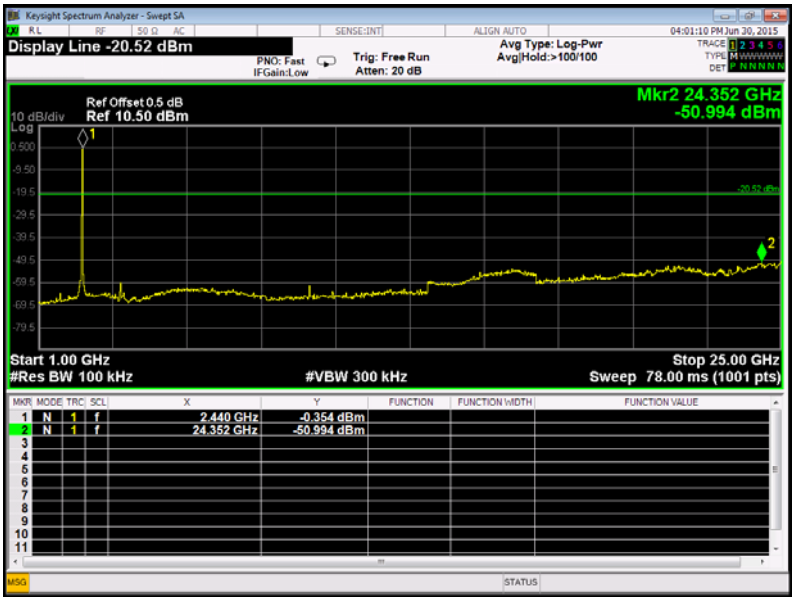
Low Channel



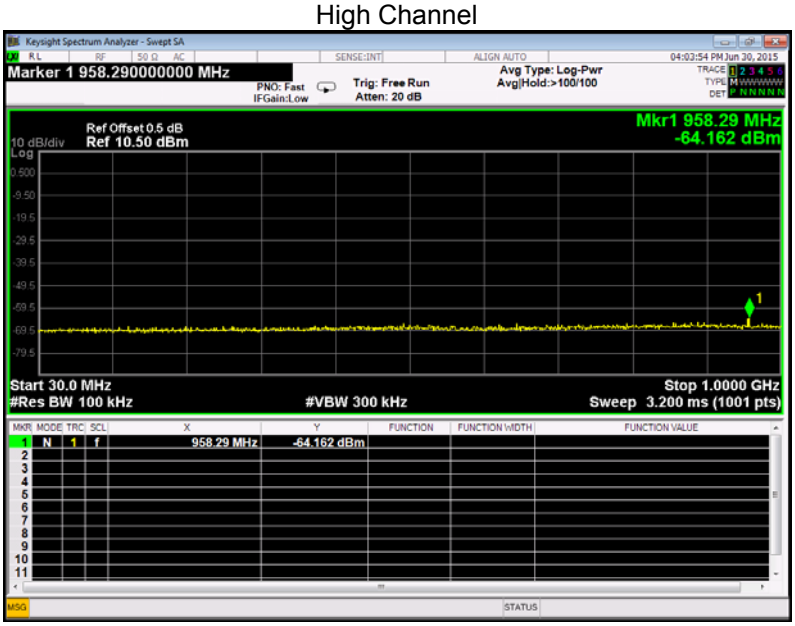


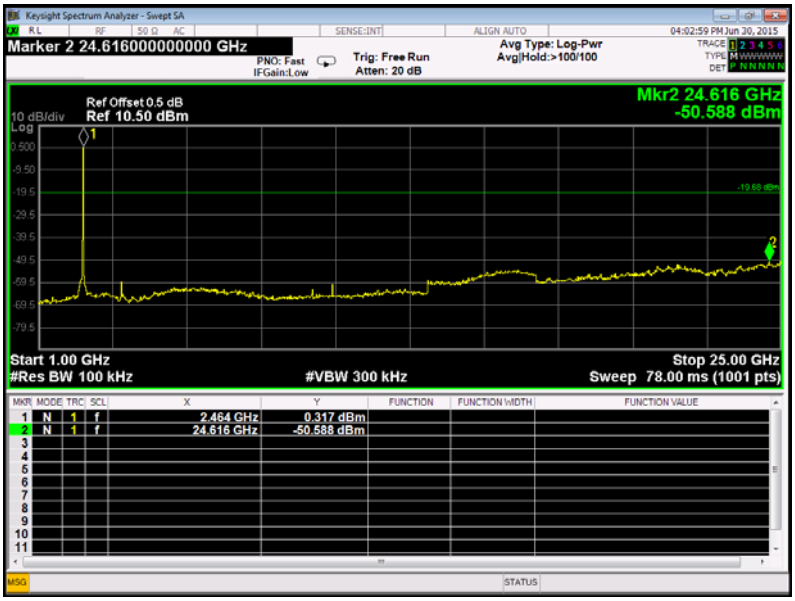
Middle Channel





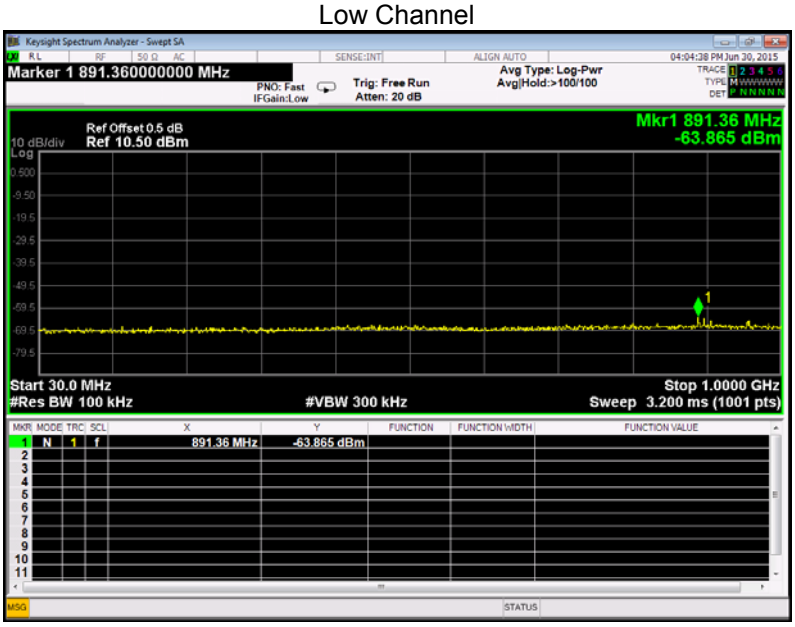
High Channel

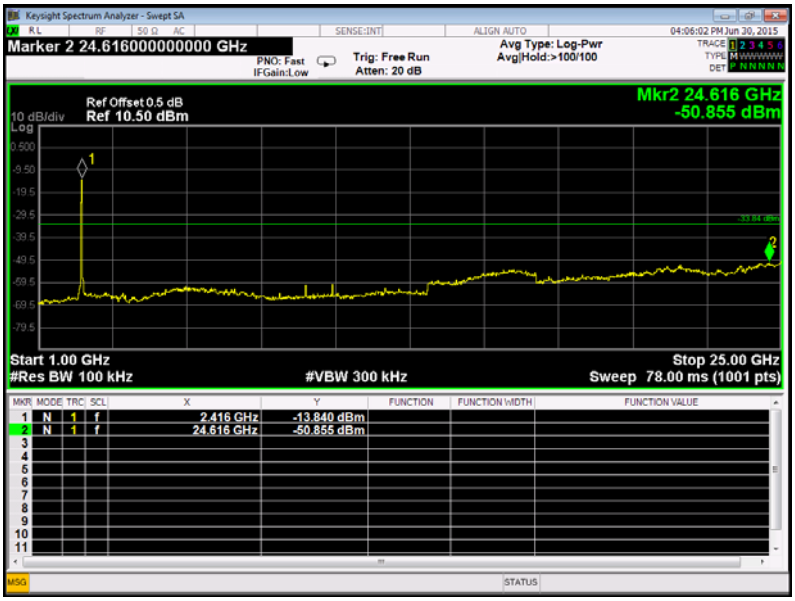




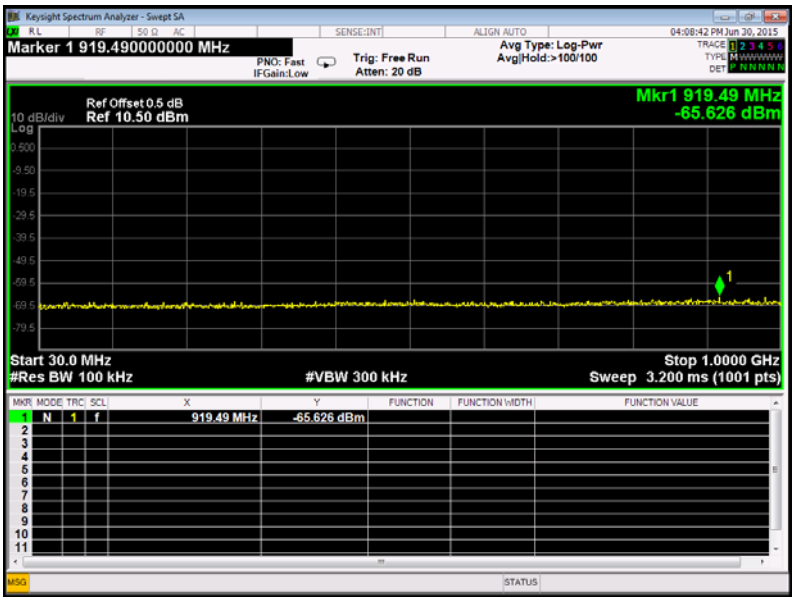
802.11g

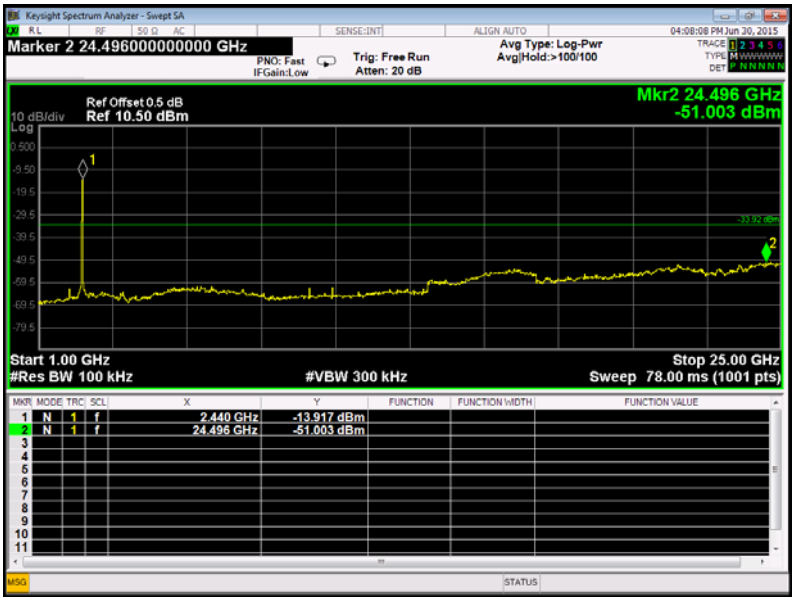
Low Channel



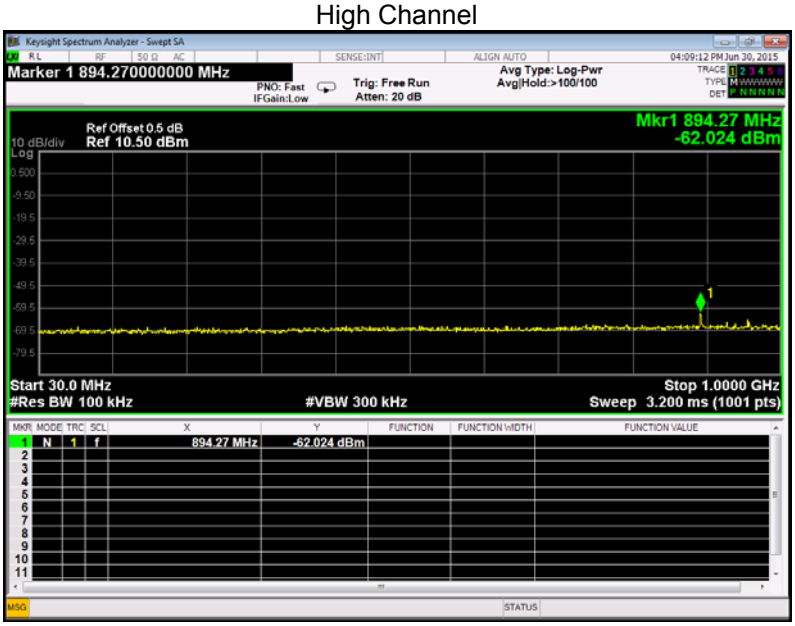


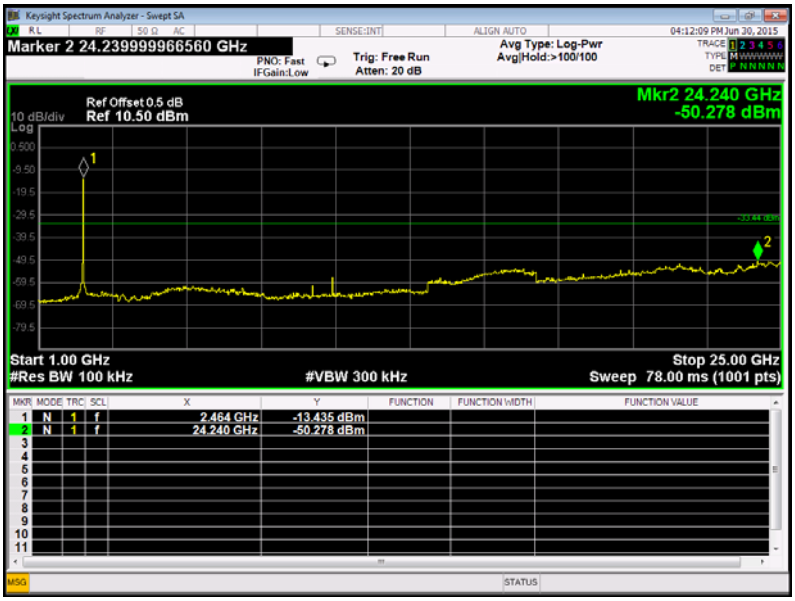
Middle Channel





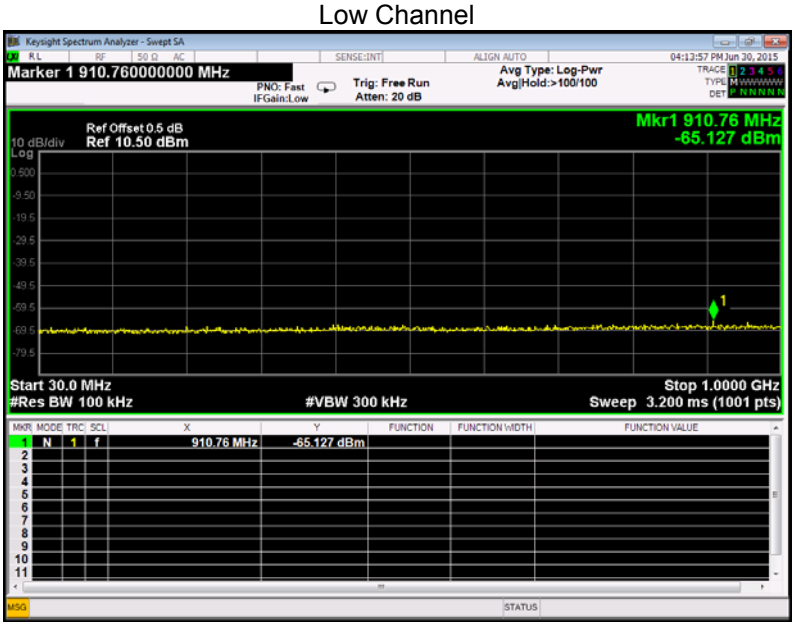
High Channel

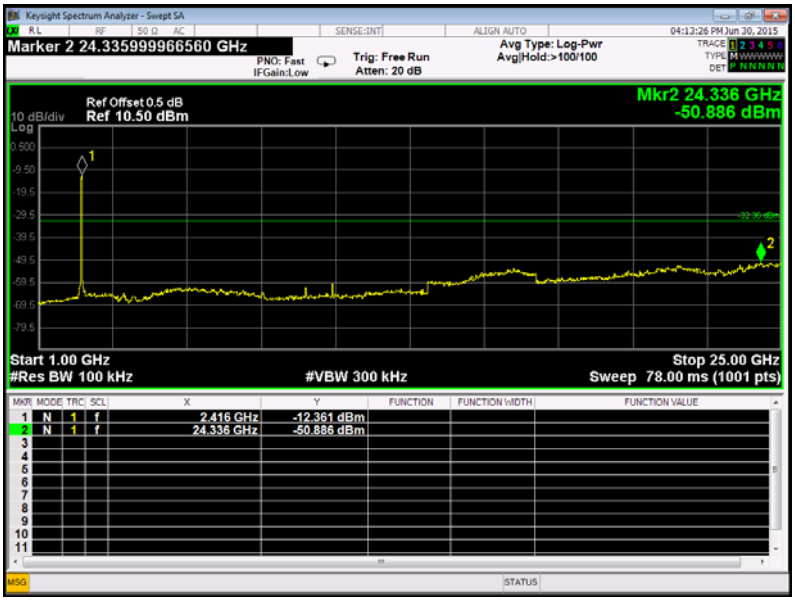




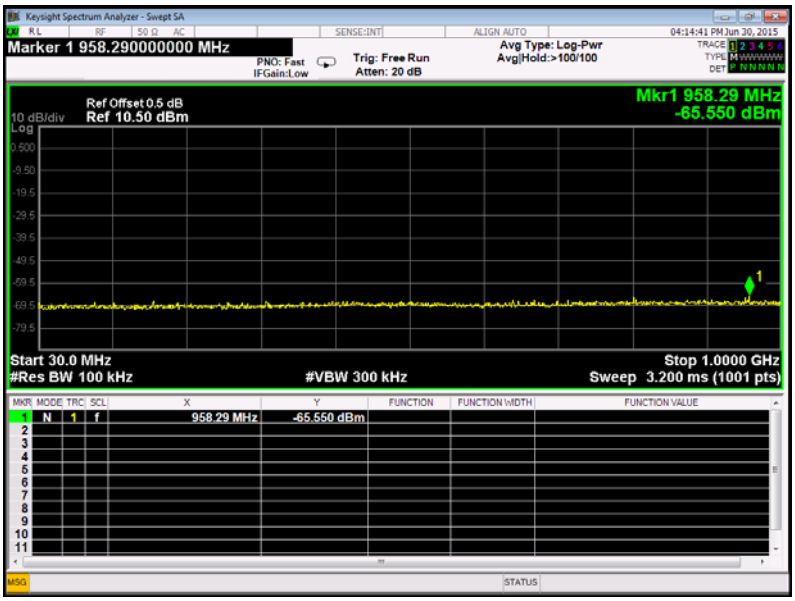
802.11n HT20

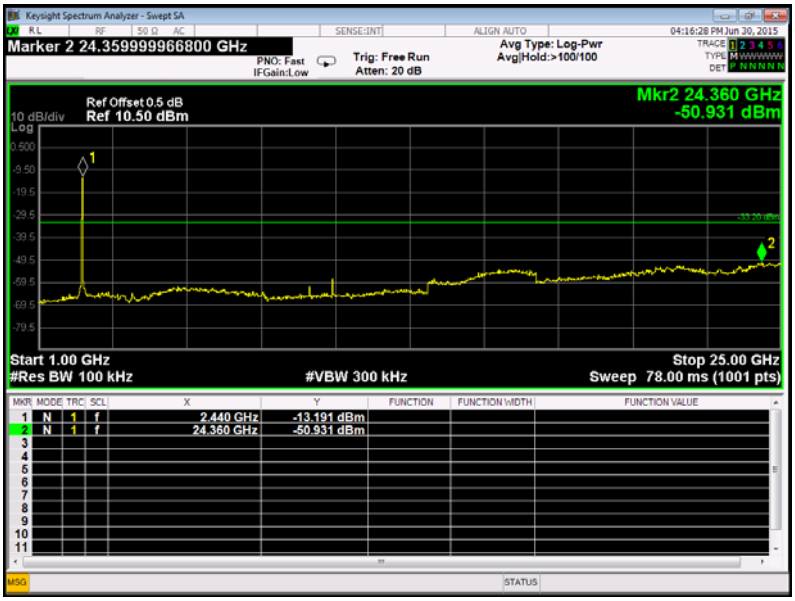
Low Channel



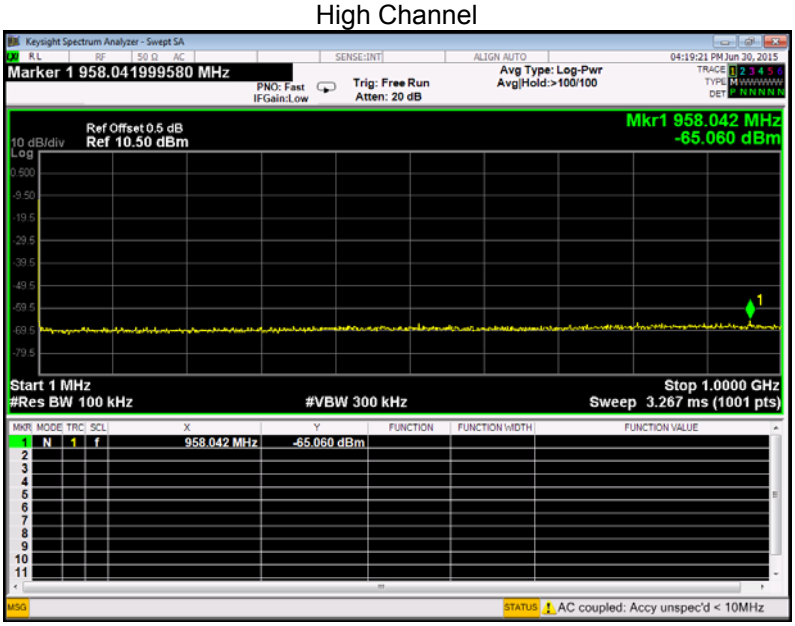


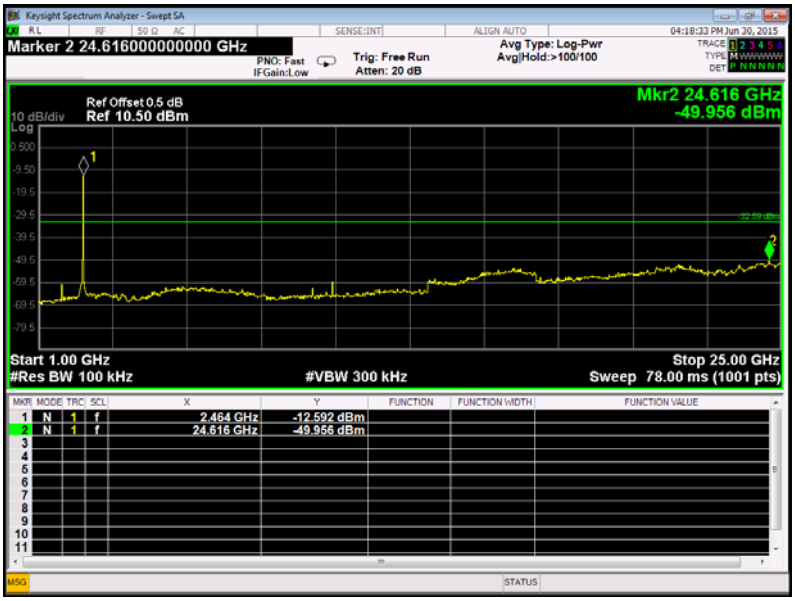
Middle Channel





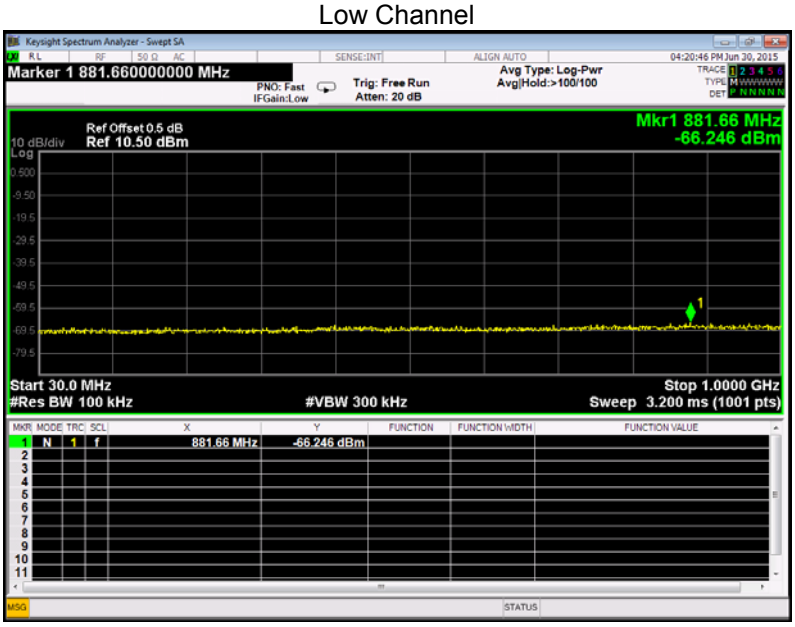
High Channel

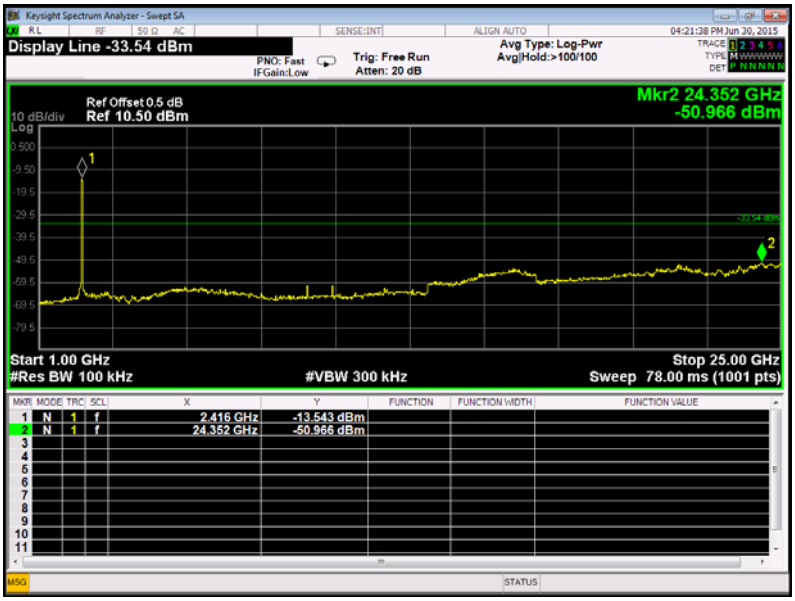




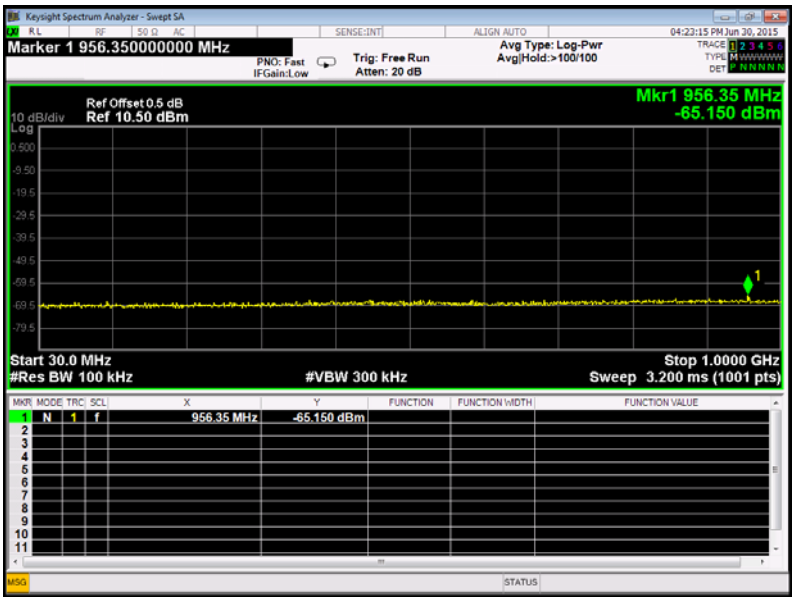
802.11n HT40

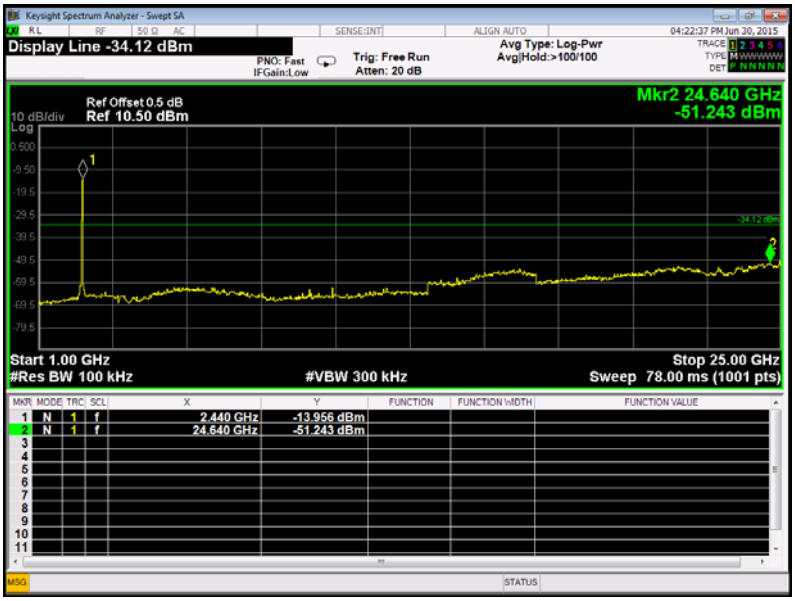
Low Channel



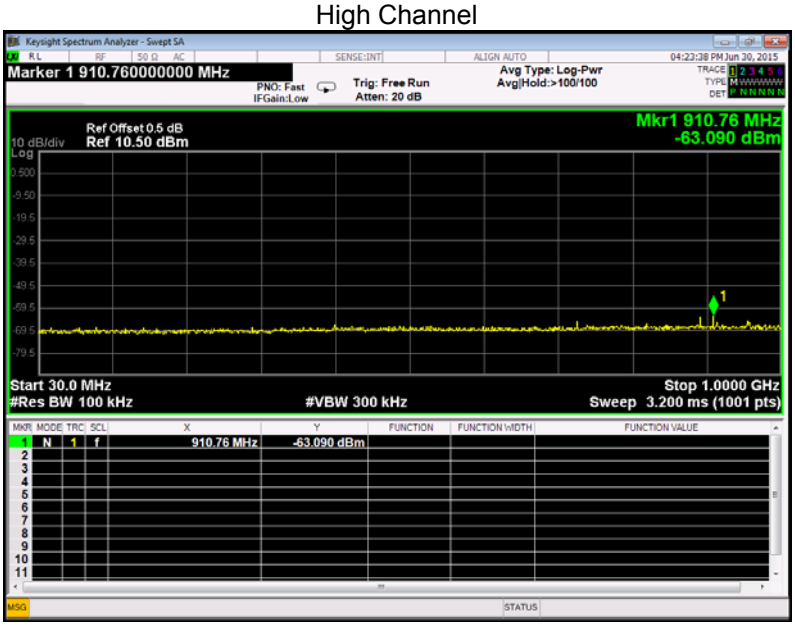


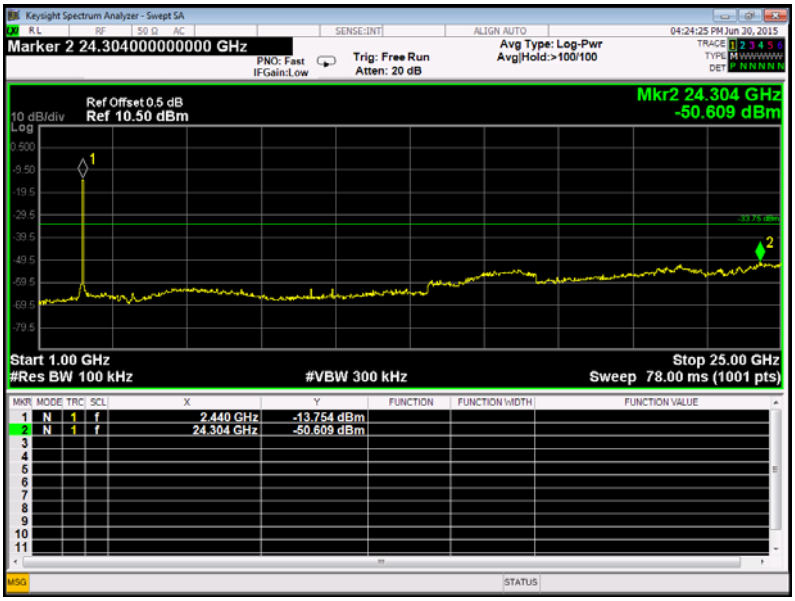
Middle Channel





High Channel





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

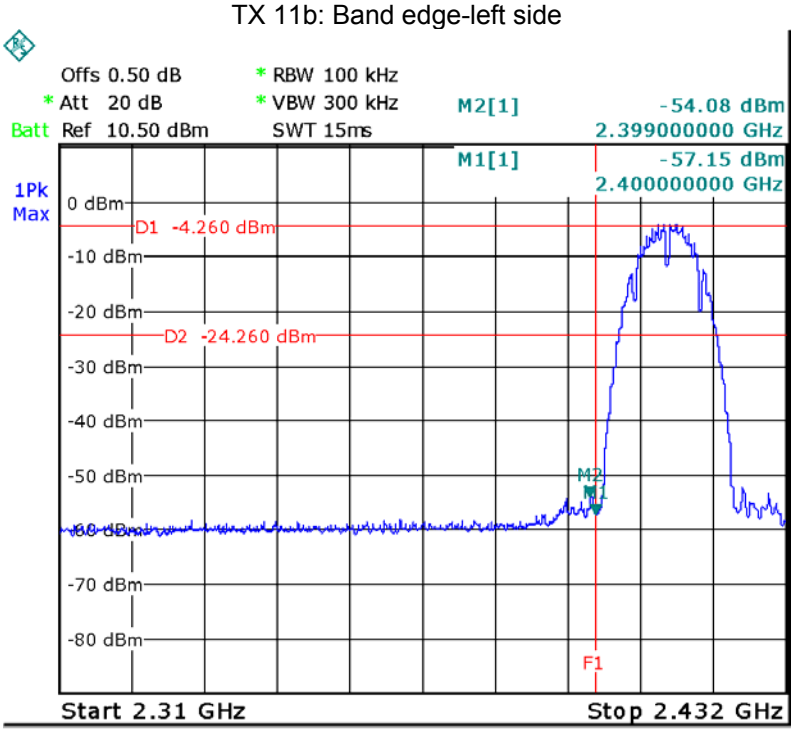
8.1 Test Produce

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.

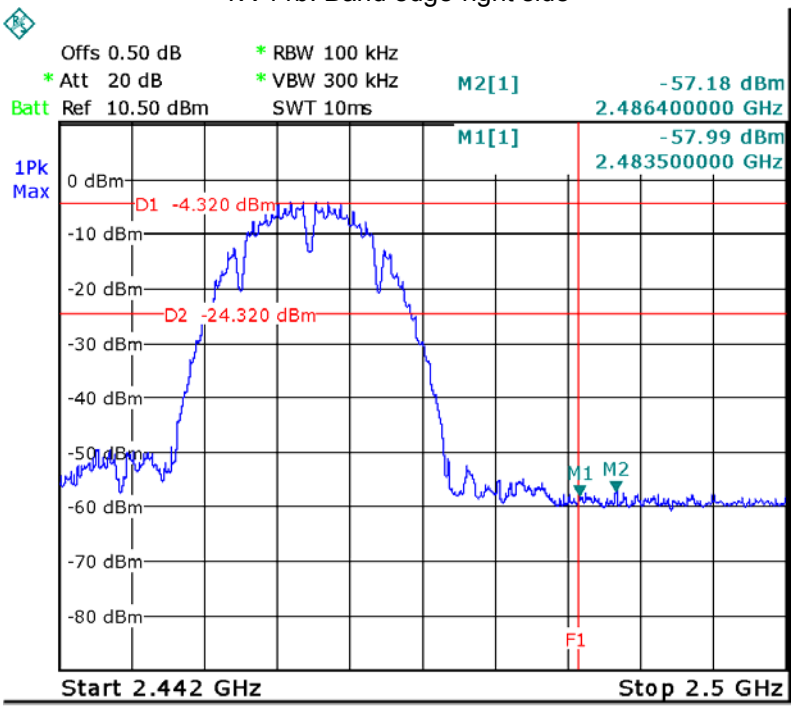
8.2 Test Result

Test result plots shown as follows:

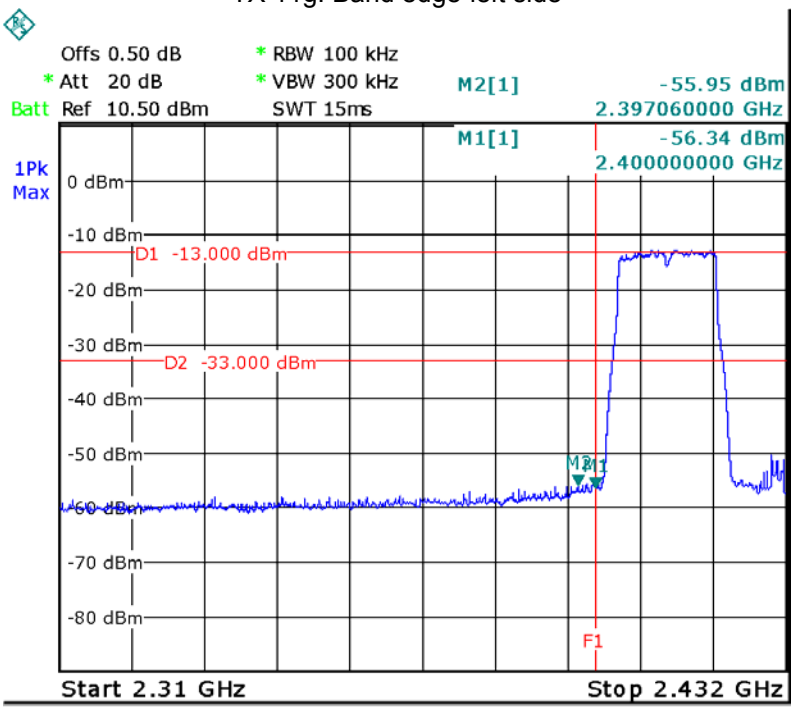
TX 11b: Band edge-left side



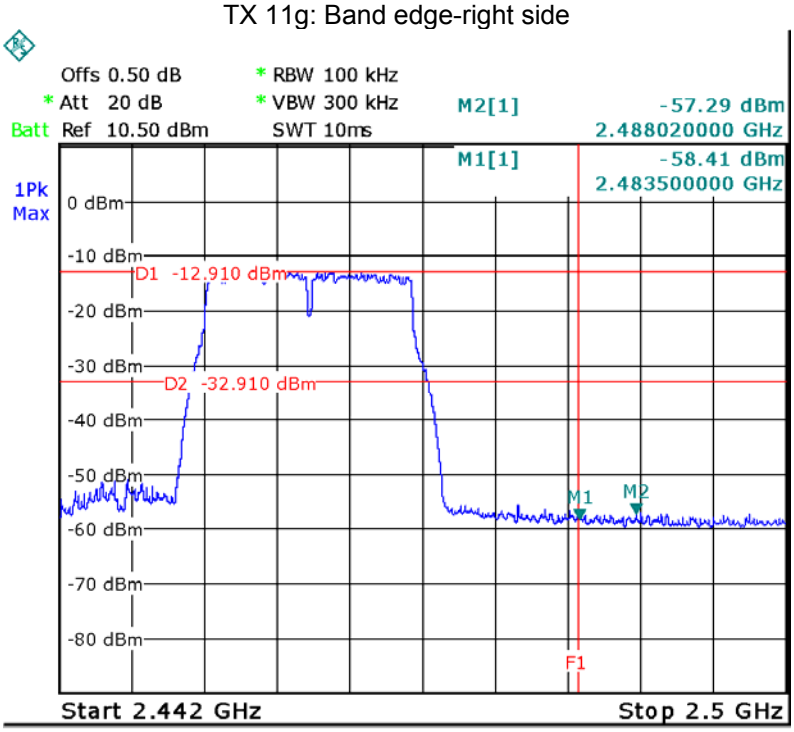
TX 11b: Band edge-right side



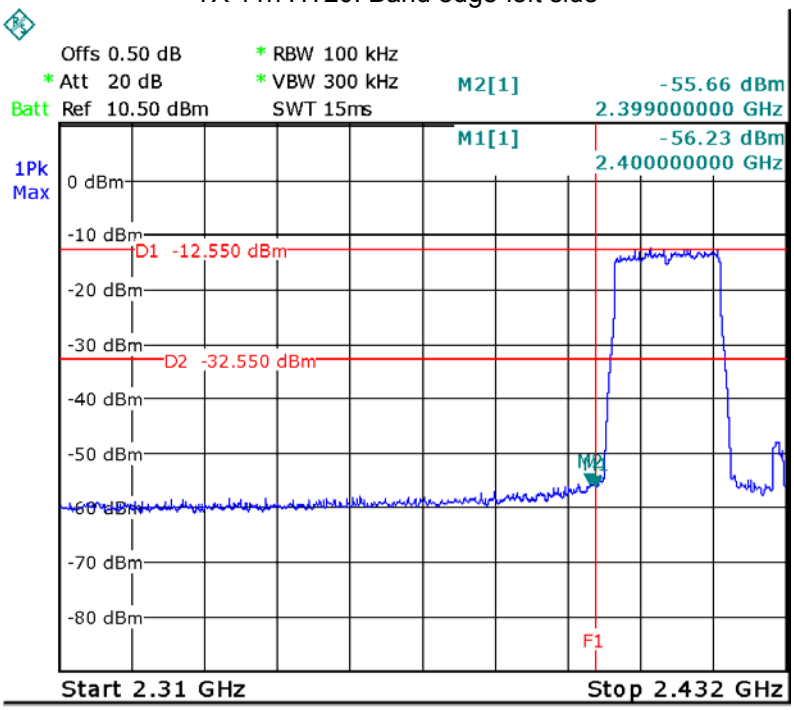
TX 11g: Band edge-left side



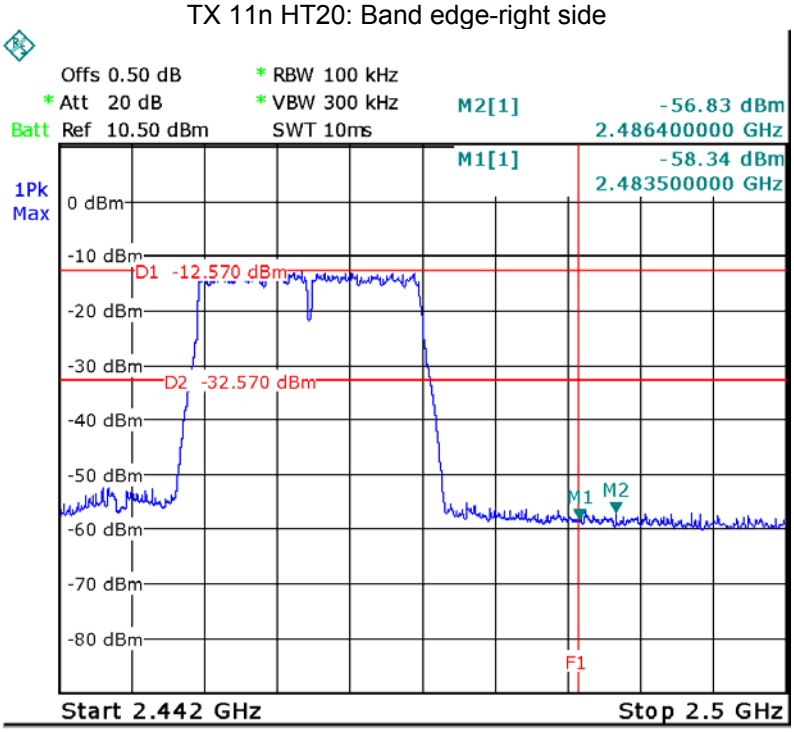
TX 11g: Band edge-right side



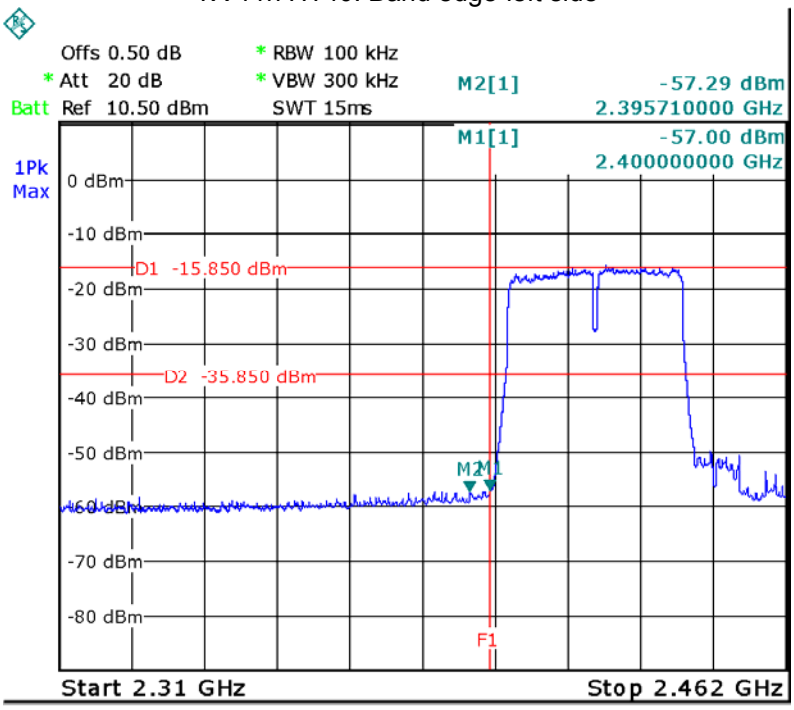
TX 11n HT20: Band edge-left side



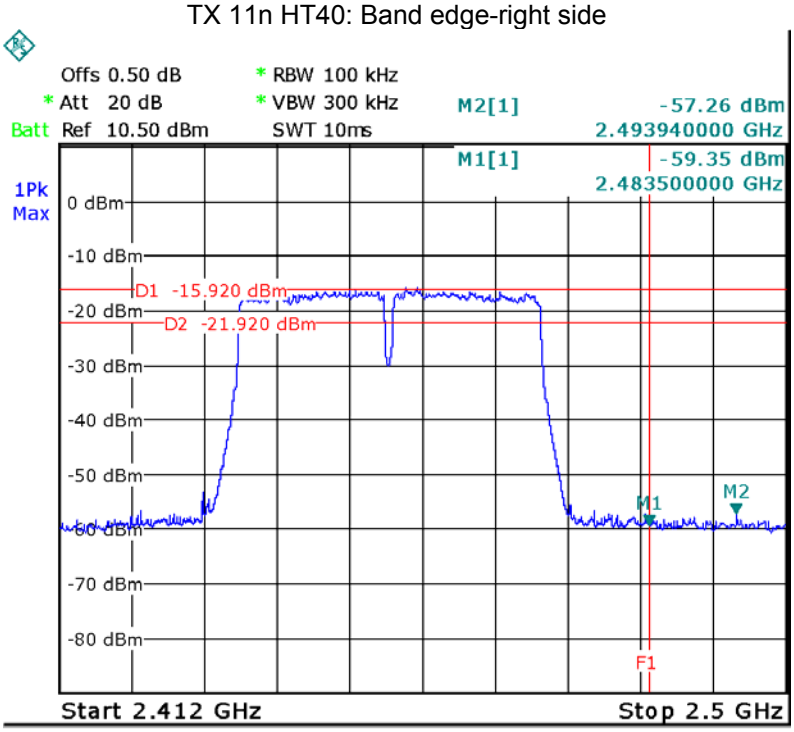
TX 11n HT20: Band edge-right side



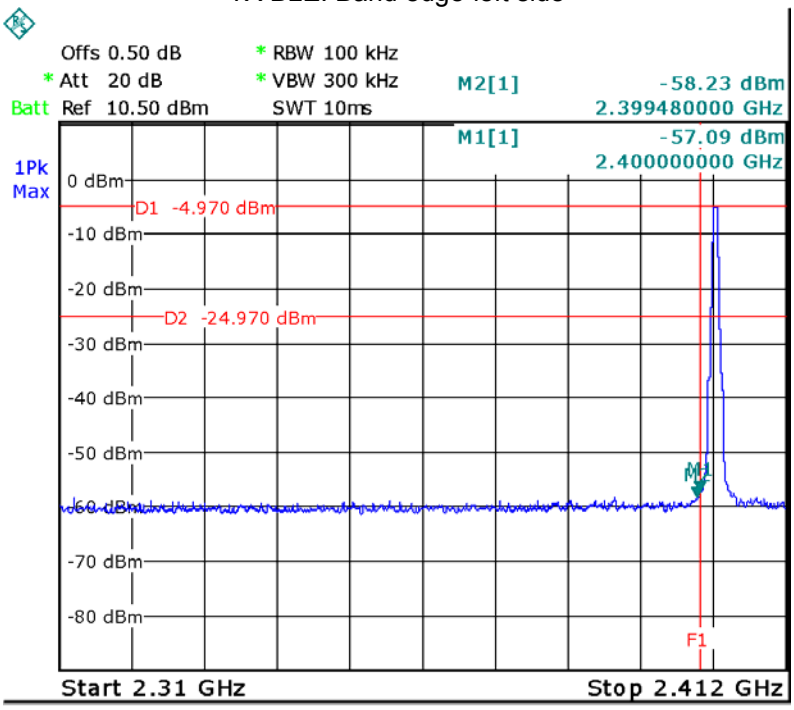
TX 11n HT40: Band edge-left side



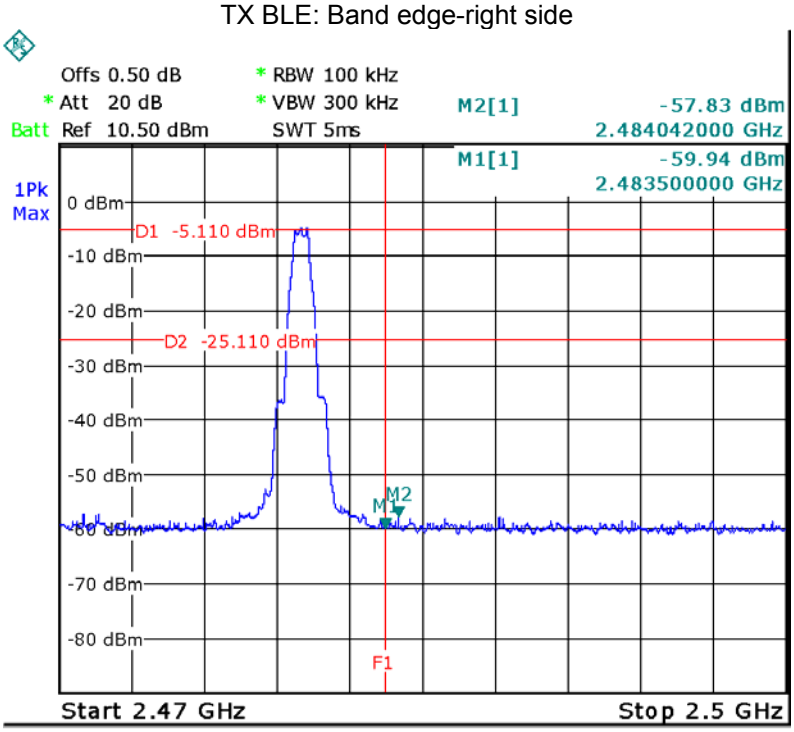
TX 11n HT40: Band edge-right side



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;

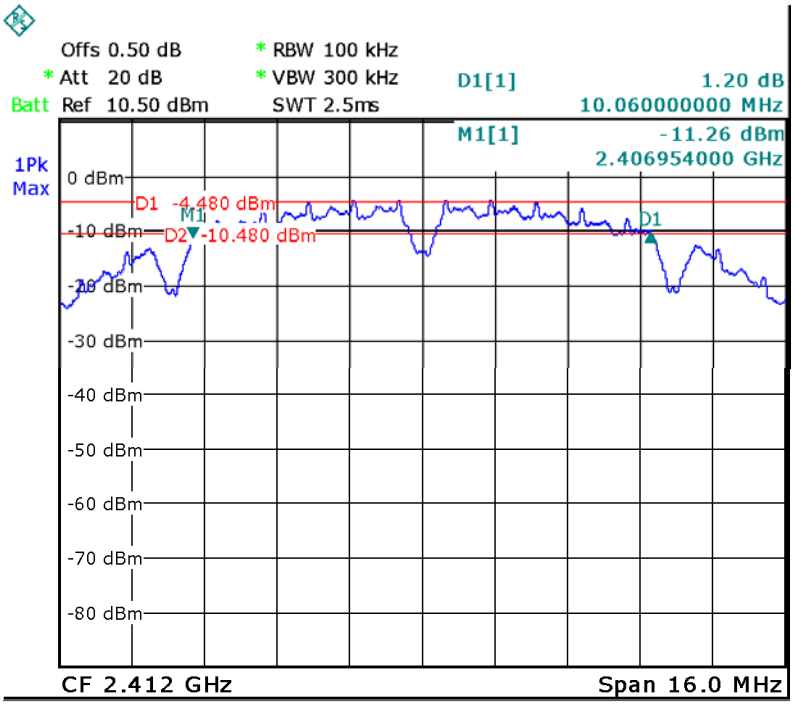
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

9.2 Test Result:

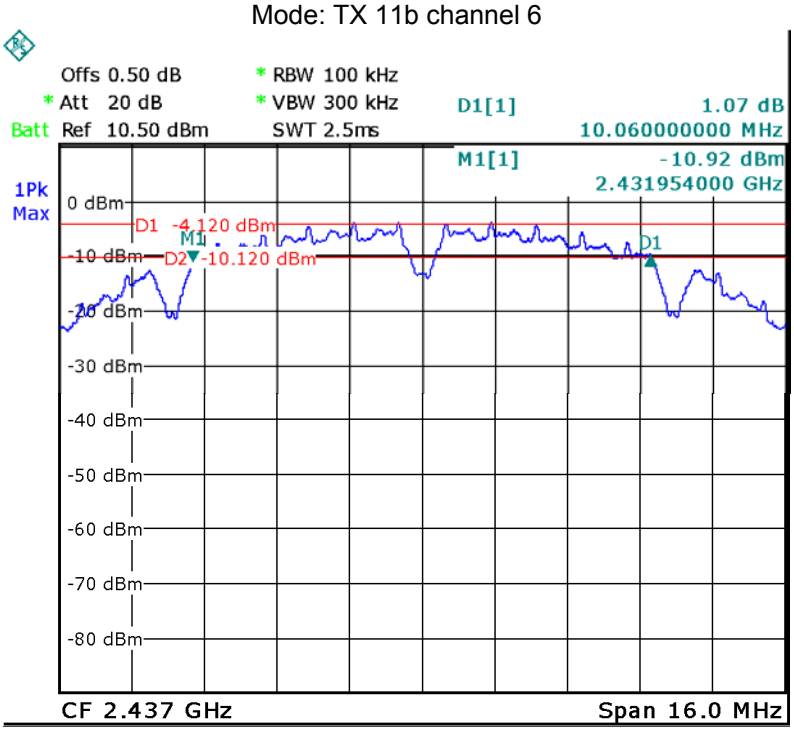
Operation mode	Bandwidth (MHz)		
TX 11b	Channel 1	Channel 6	Channel 11
	10.060	10.060	10.060
TX 11g	Channel 1	Channel 6	Channel 11
	16.617	16.617	16.617
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.838	17.838	17.838
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.560	36.560	36.560
BT BLE	Channel 0	Channel 19	Channel 39
	0.665	0.665	0.665

Test result plot as follows:

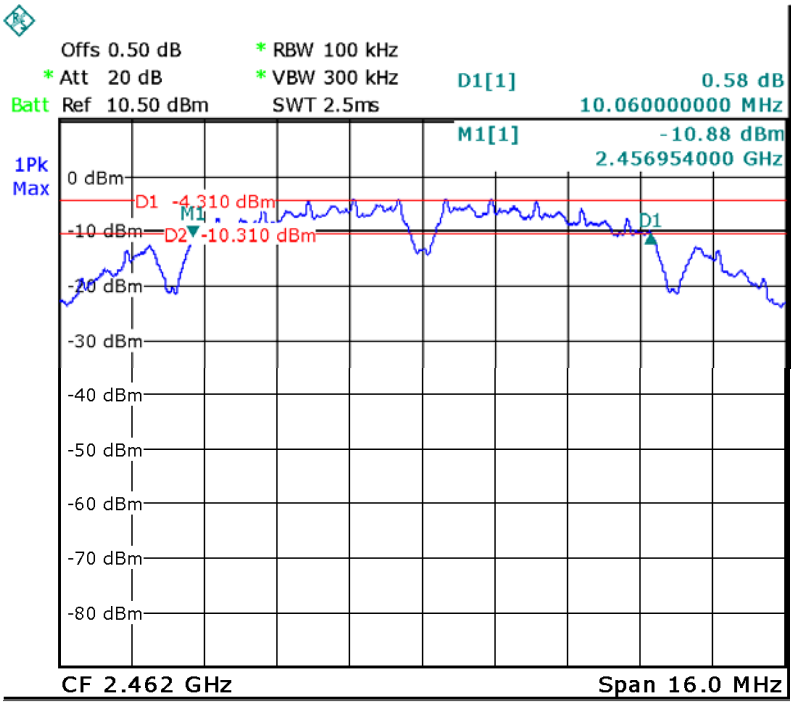
Mode: TX 11b channel 1



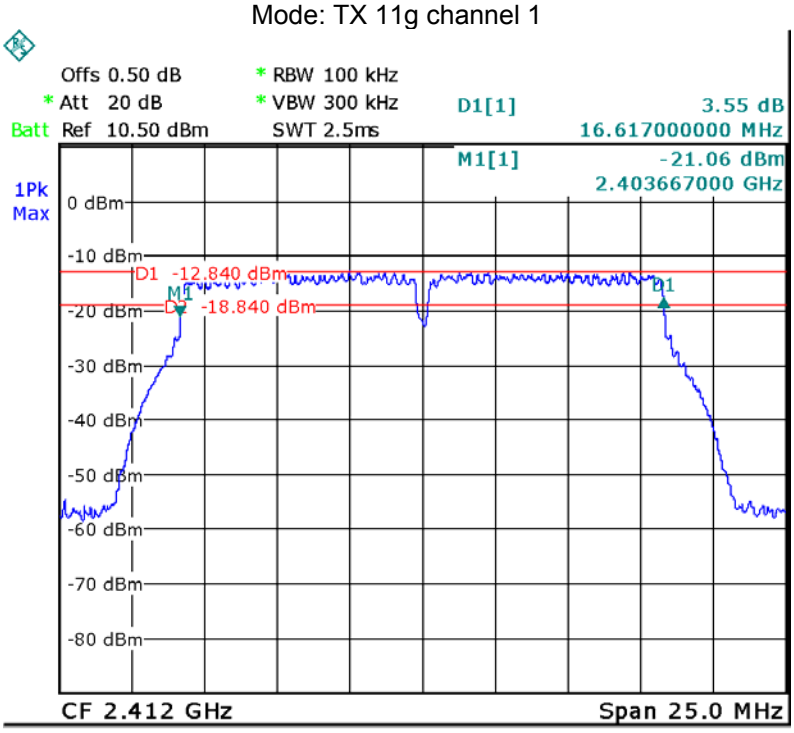
Mode: TX 11b channel 6



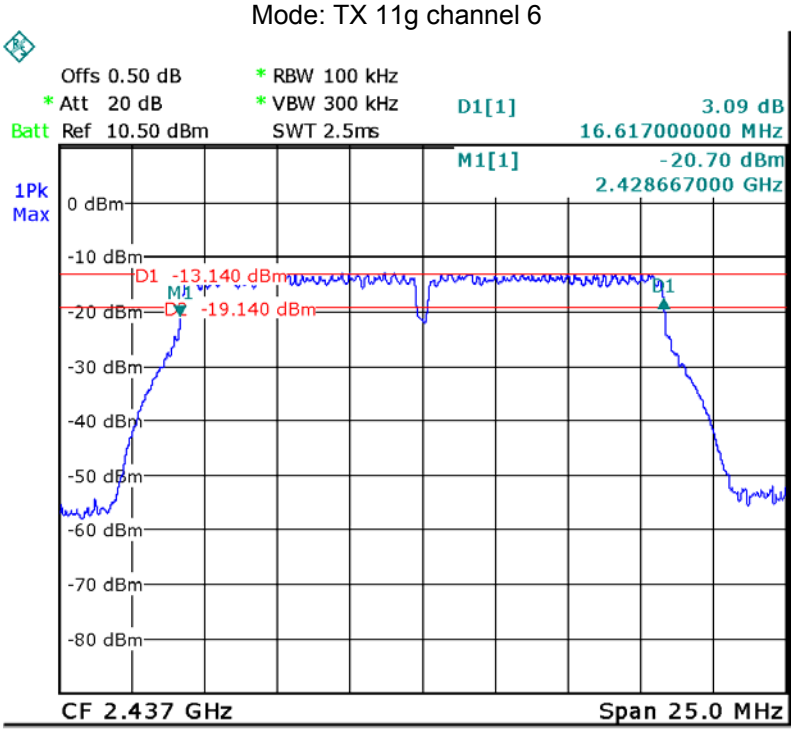
Mode: TX 11b channel 11



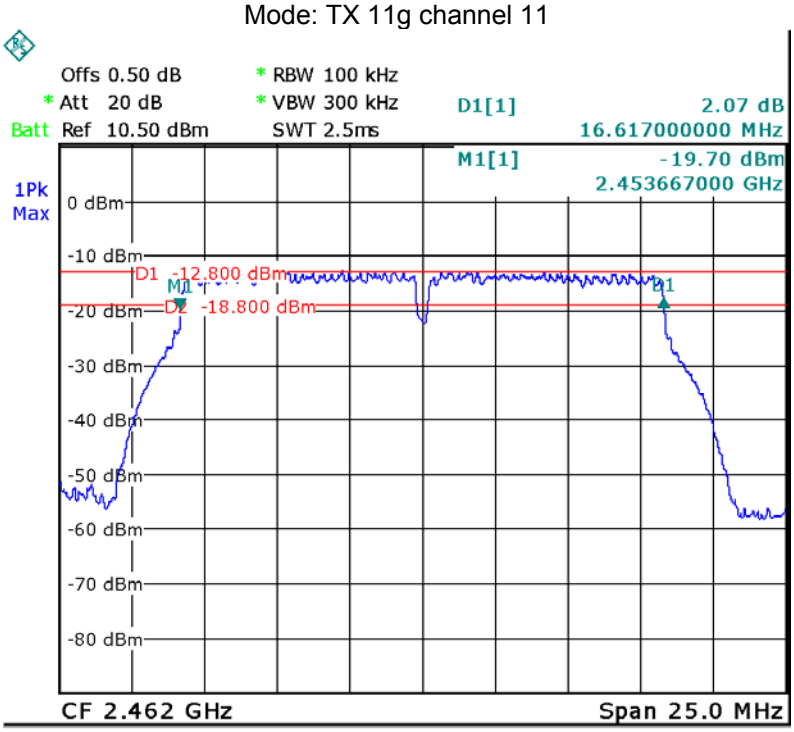
Mode: TX 11g channel 1



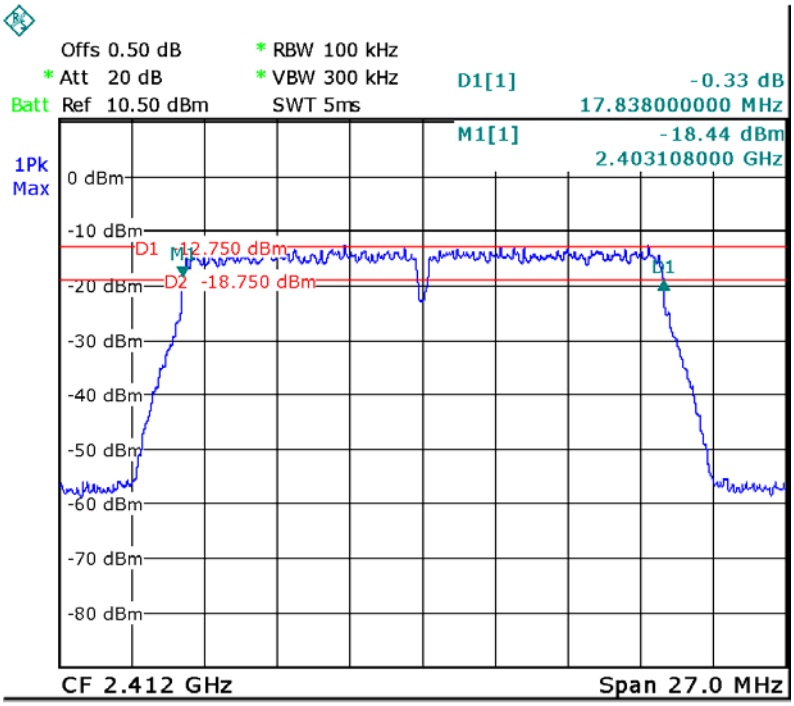
Mode: TX 11g channel 6



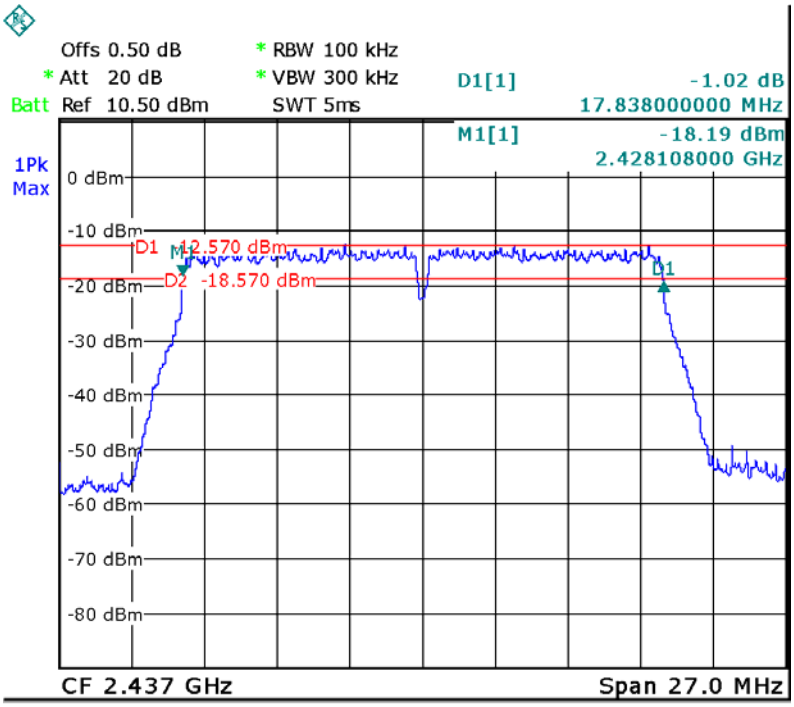
Mode: TX 11g channel 11



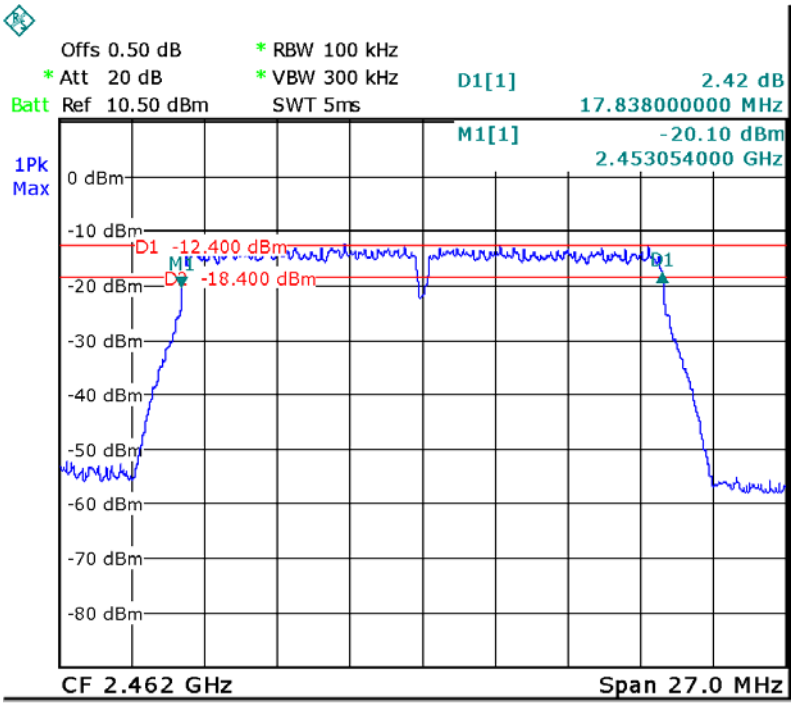
Mode: TX 11n HT20 channel 1



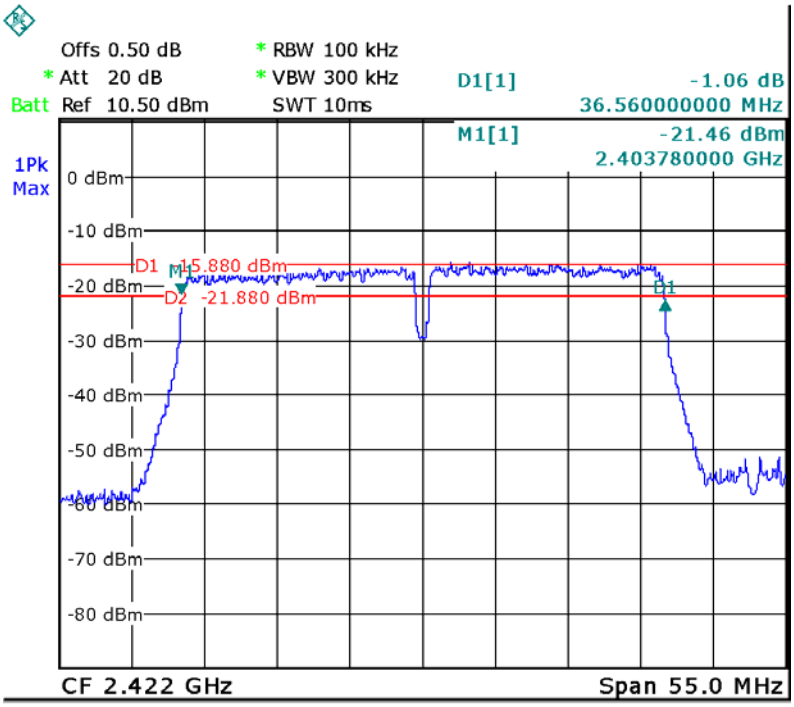
Mode: TX 11n HT20 channel 6



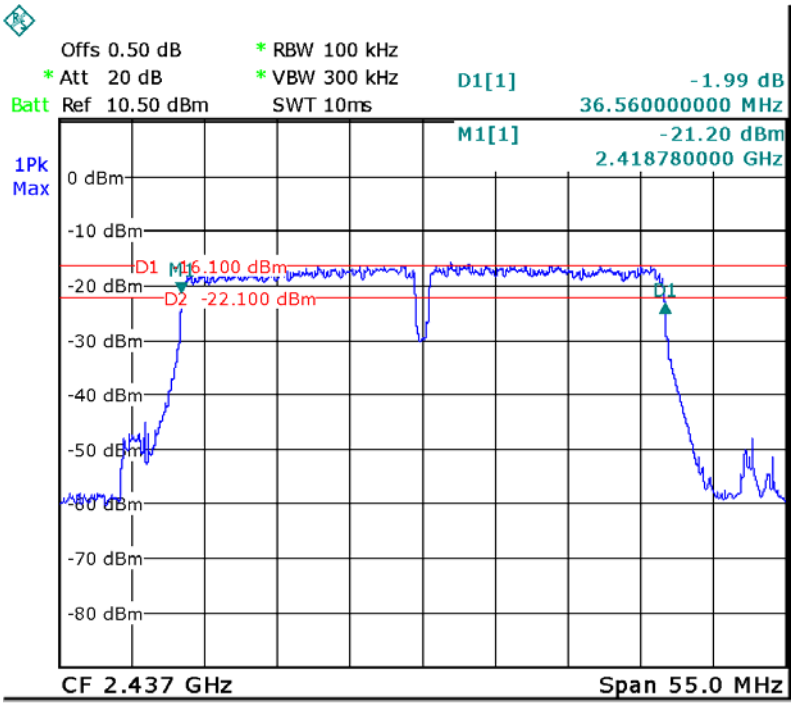
Mode: TX 11n HT20 channel 11



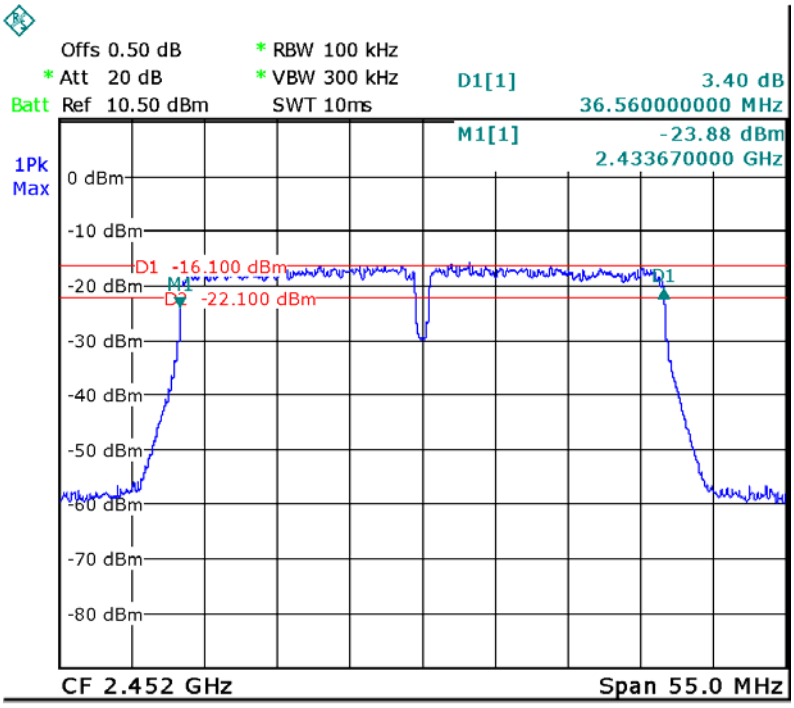
Mode: TX 11n HT40 channel 3



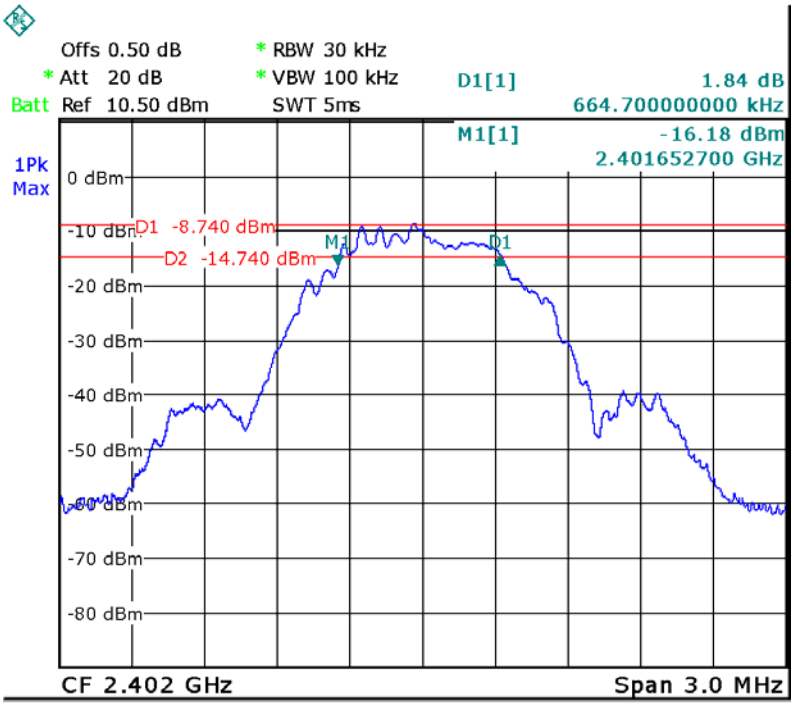
Mode: TX 11n HT40 channel 6



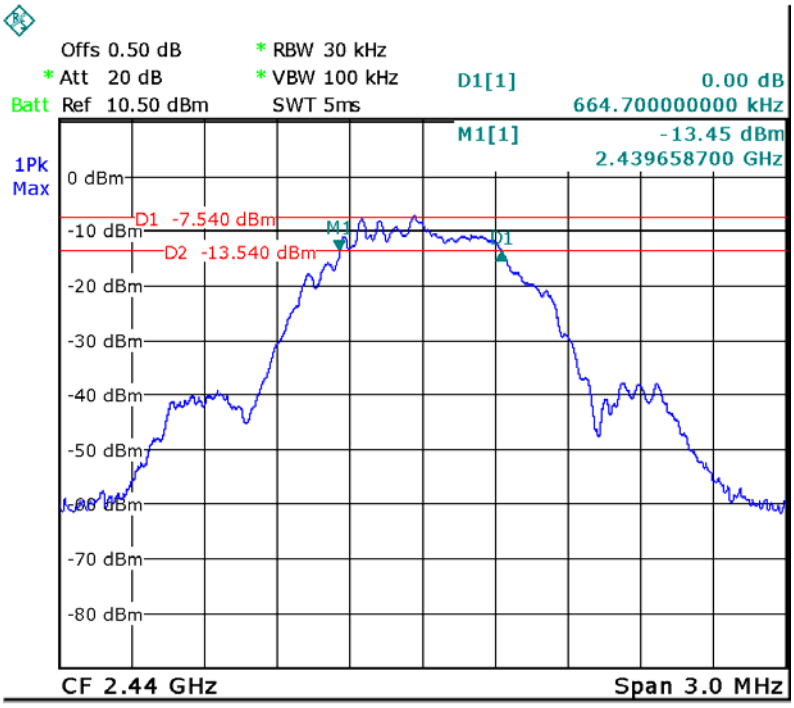
Mode: TX 11n HT40 channel 9



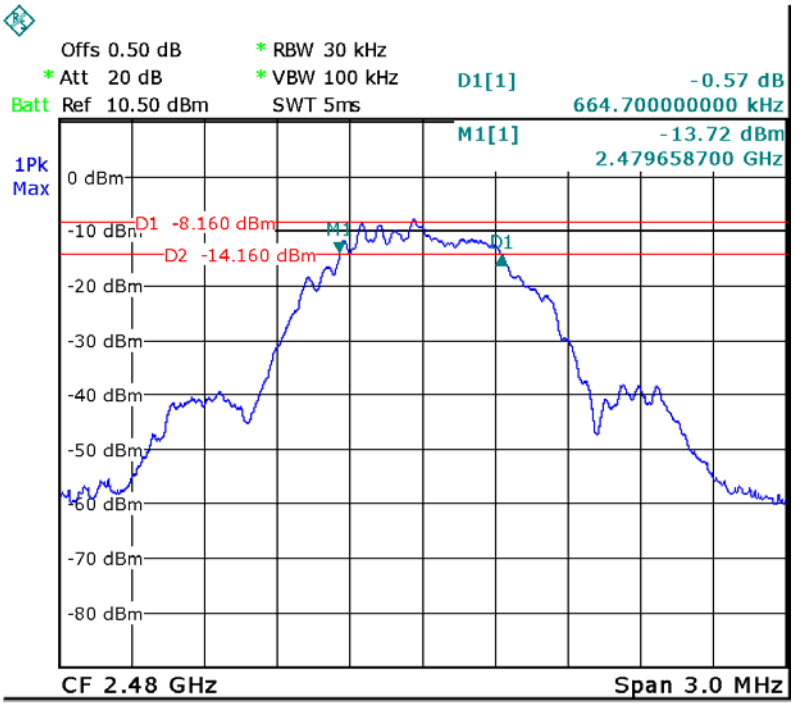
Mode: TX BT BLE channel 0



Mode: TX BT BLE channel 19



Mode: TX BT BLE channel 39



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 ⩾ DTS bandwidth.

b)Set VBW ⩾ 3 RBW.

c)Set span ⩾ 3 x 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 MHz.

b)Set the VBW ⩾ 3 RBW

c)Set the span ⩾ 1.5 x 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
9.07	9.36	9.14
Limit: 1W/30dBm		
1W/30dBm		

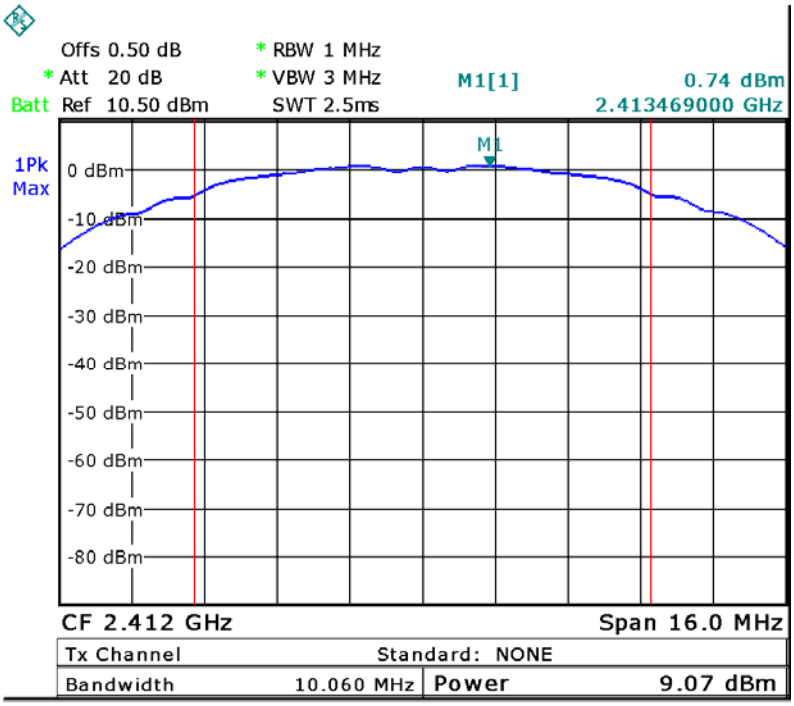
Test mode :TX 11g		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.14	9.22	9.37
Limit		
1W/30dBm		

Test mode :TX 11n HT20		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.29	9.46	9.48
Limit		
1W/30dBm		

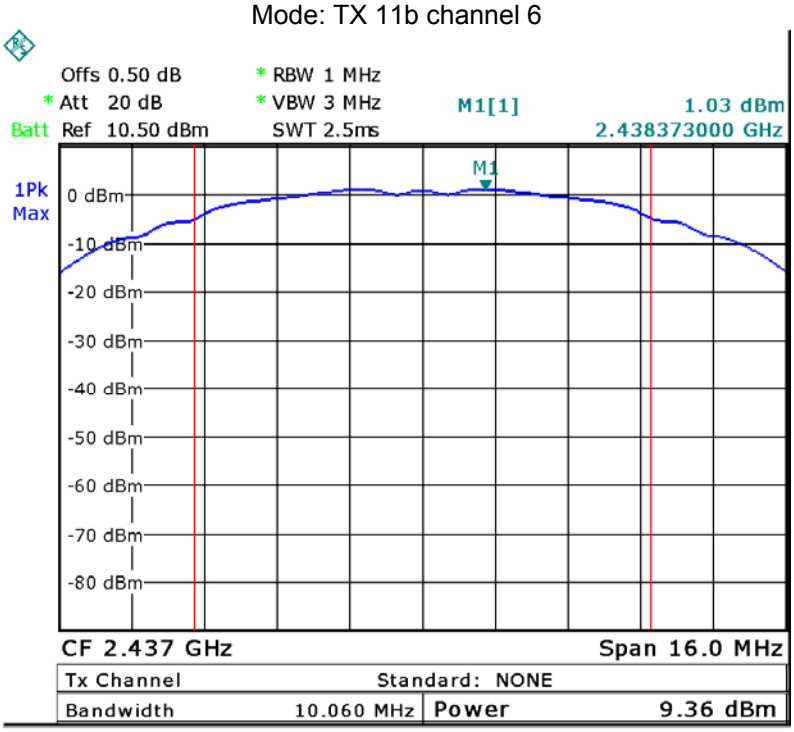
Test mode : TX 11n HT40		
10 Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.31	9.24	9.19
Limit		
1W/30dBm		

Test mode : TX BT BLE		
10 Maximum Peak Output Power (dBm)		
2402MHz	2440MHz	2480MHz
-3.93	-3.45	-4.06
Limit		
1W/30dBm		

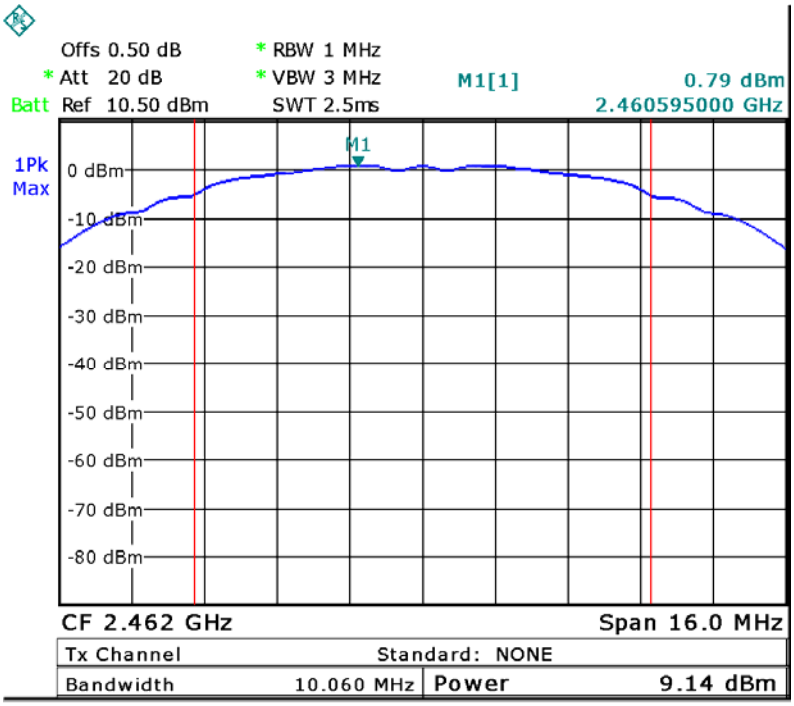
Mode: TX 11b channel 1



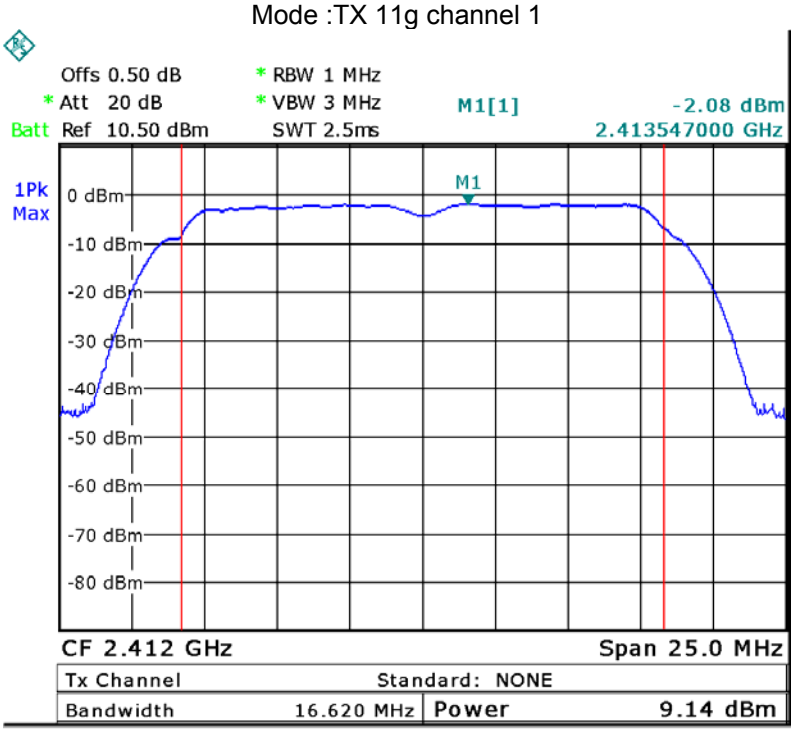
Mode: TX 11b channel 6



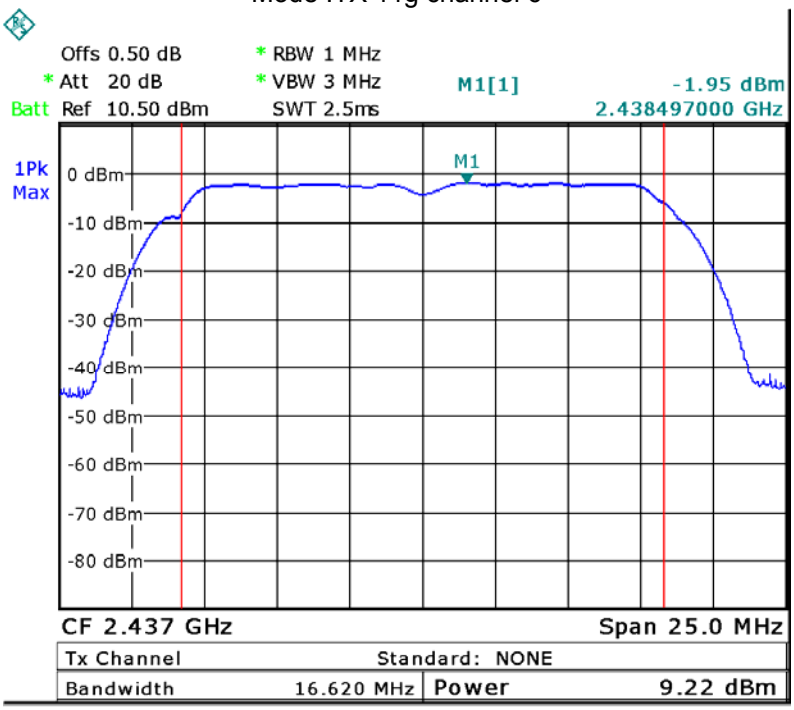
Mode: TX 11b channel 11



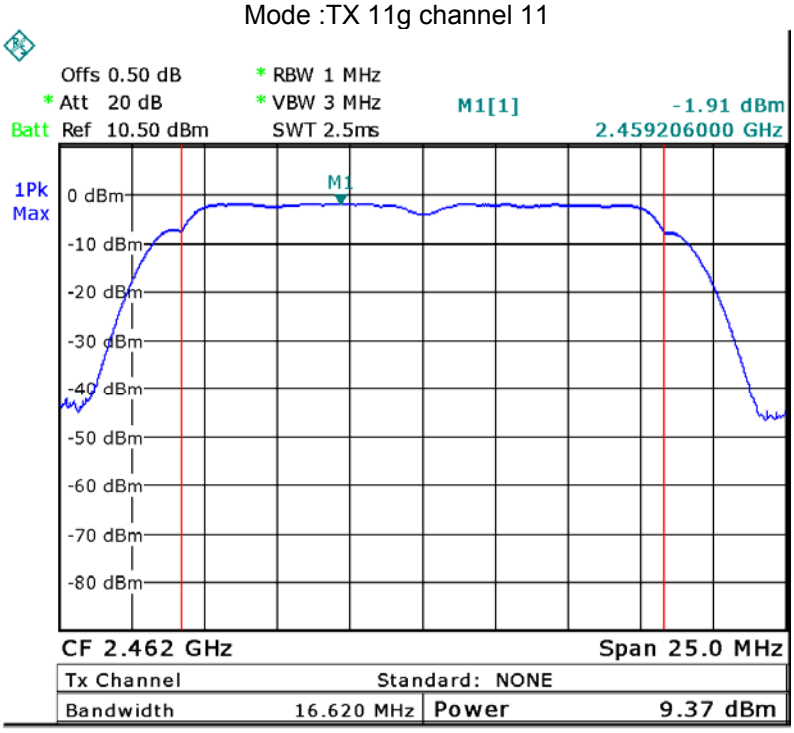
Mode :TX 11g channel 1



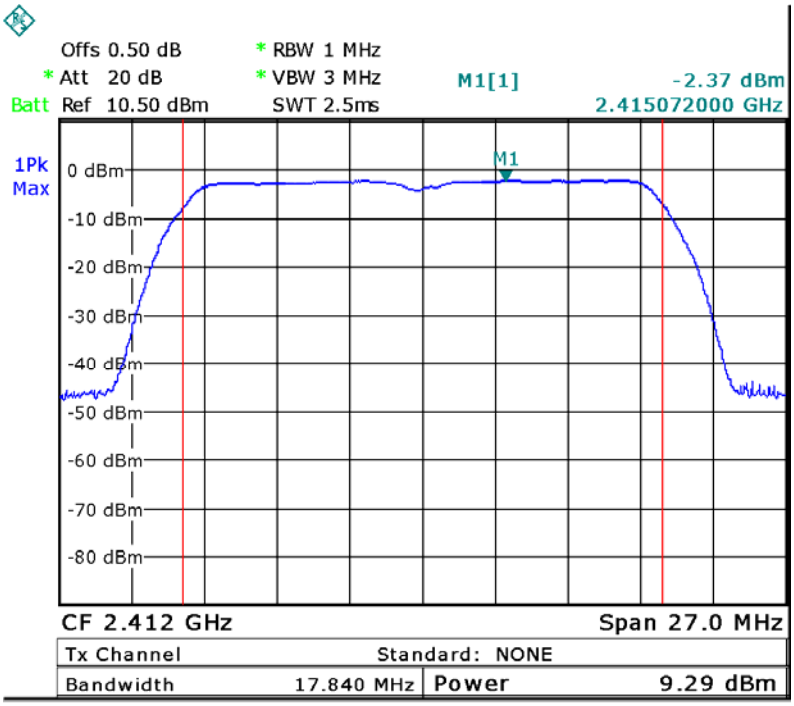
Mode :TX 11g channel 6



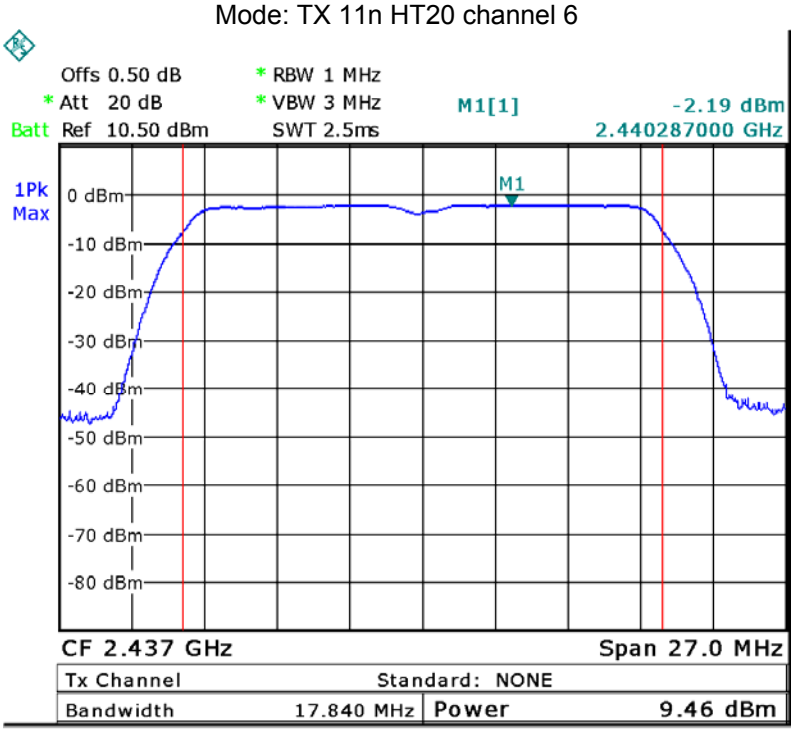
Mode :TX 11g channel 11



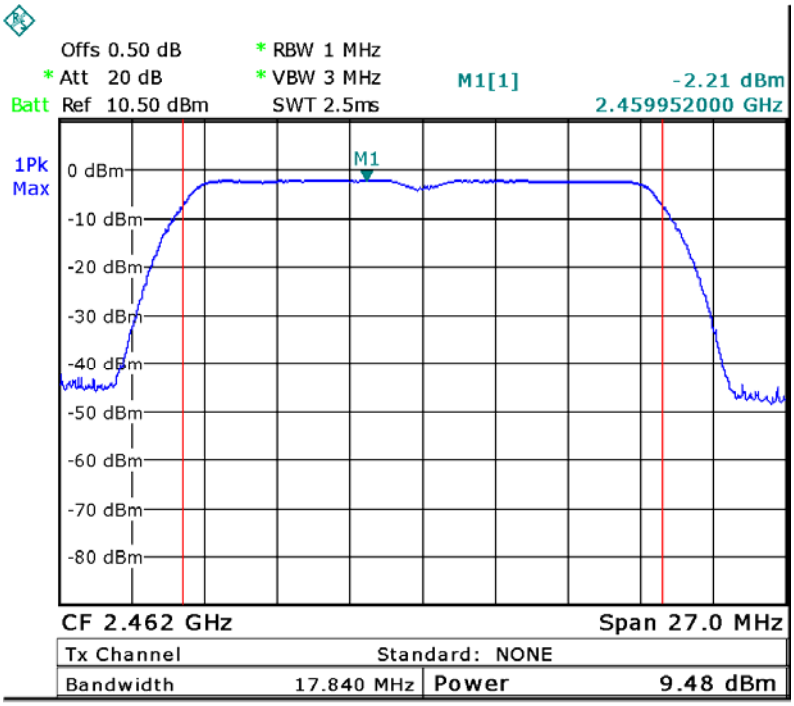
Mode: TX 11n HT20 channel 1



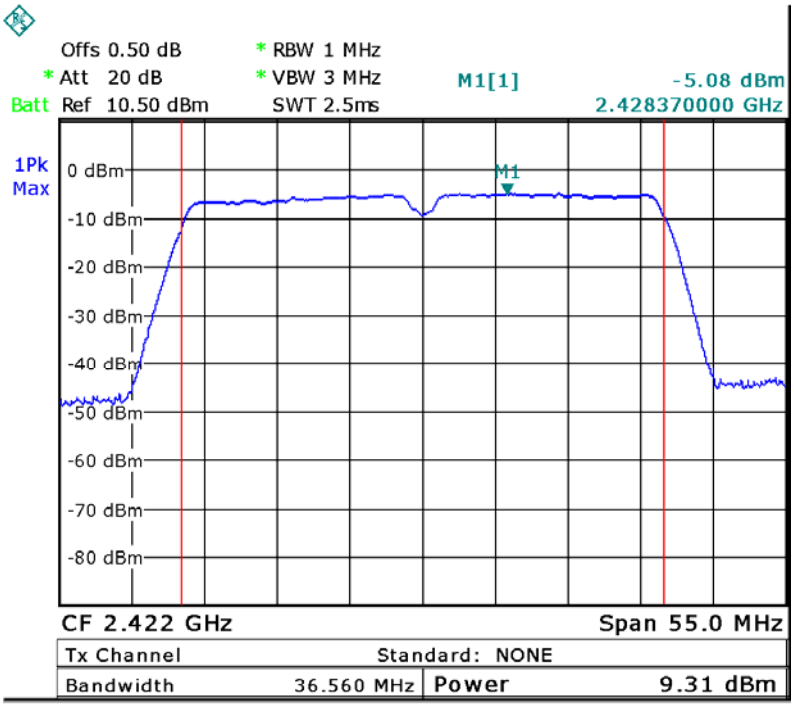
Mode: TX 11n HT20 channel 6



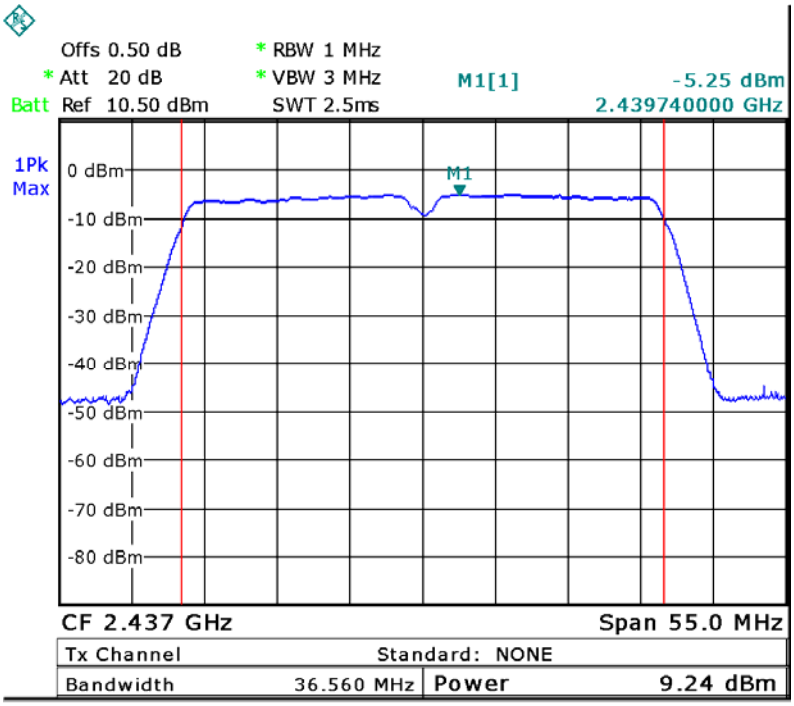
Mode: TX 11n HT20 channel 11



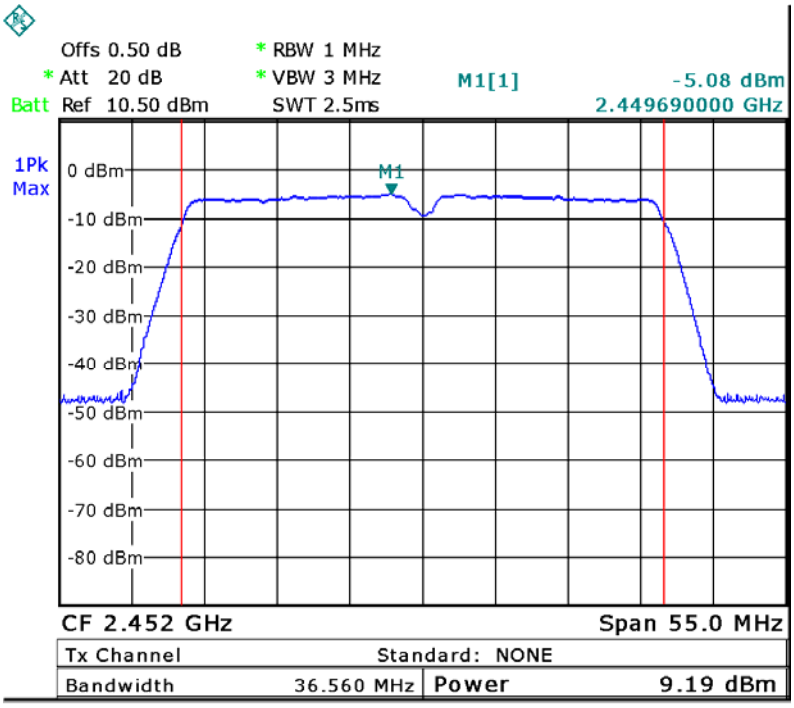
Mode: TX 11n HT40 channel 3



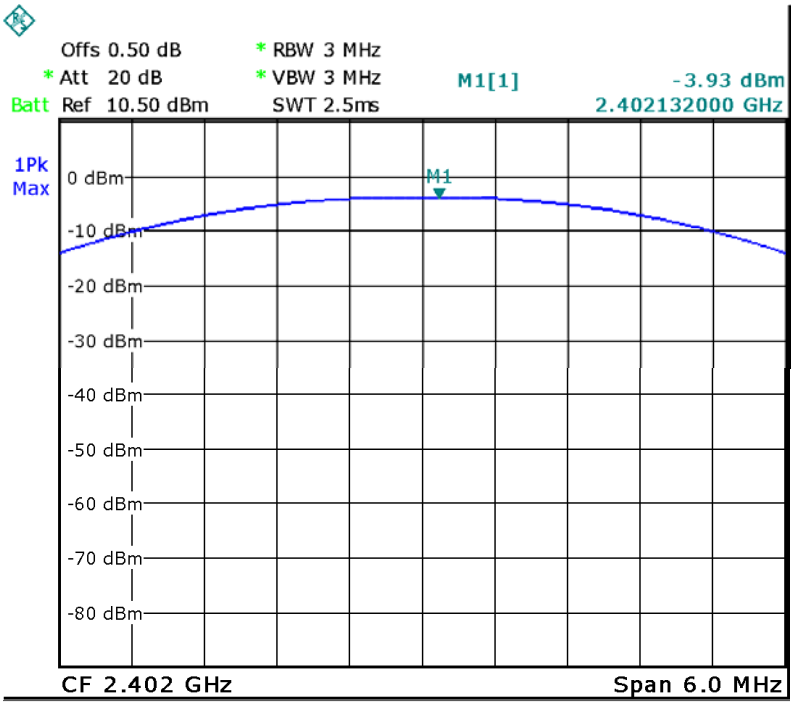
Mode: TX 11n HT40 channel 6



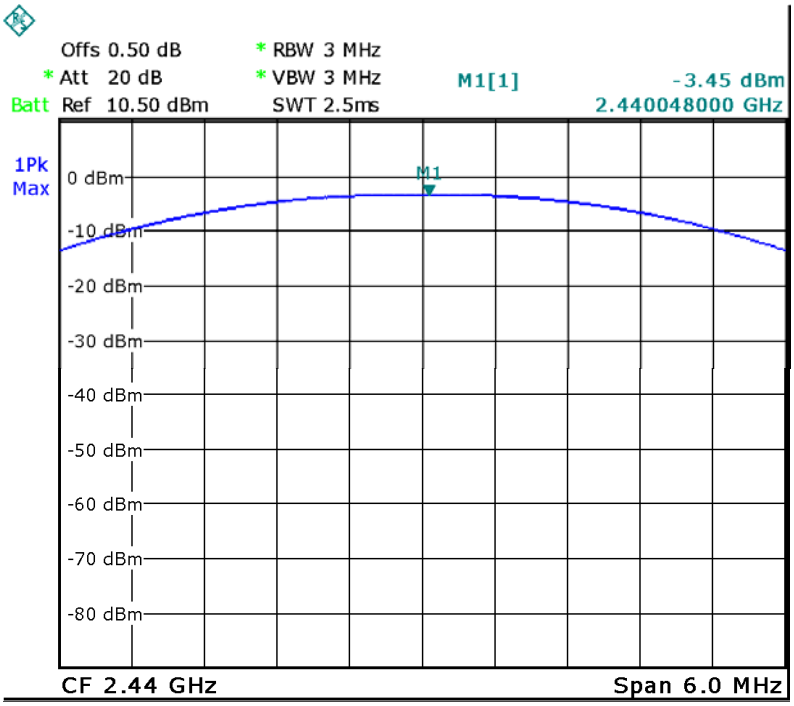
Mode: TX 11n HT40 channel 9



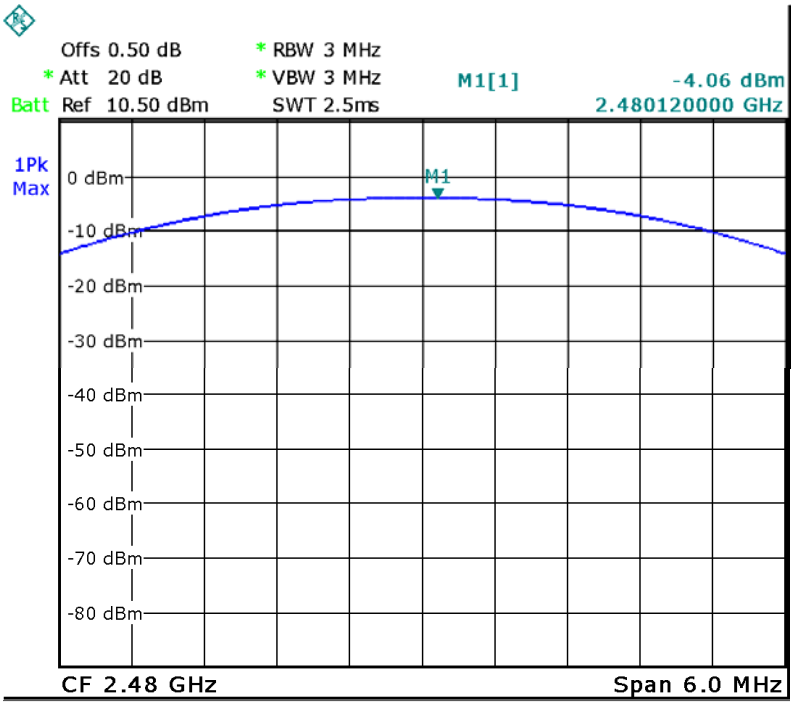
Mode: TX BT BLE channel 0



Mode: TX BT BLE channel 19



Mode: TX BT BLE channel 39



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
-22.36	-22.55	-22.42
Limit: 1W/30dBm		
8dBm per 3kHz		

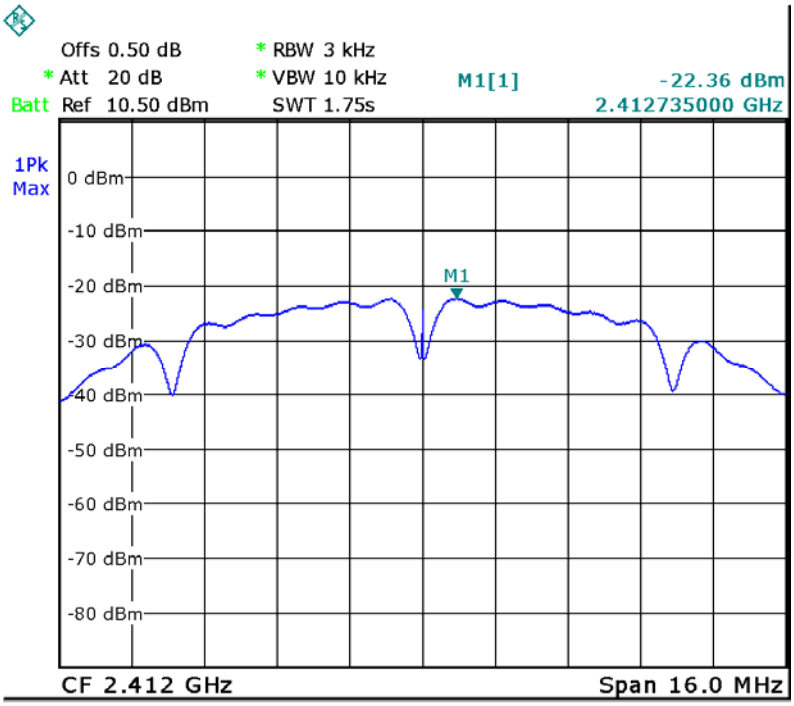
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-26.84	-27.10	-26.78
Limit		
8dBm per 3kHz		

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-26.14	-26.39	-26.21
Limit		
8dBm per 3kHz		

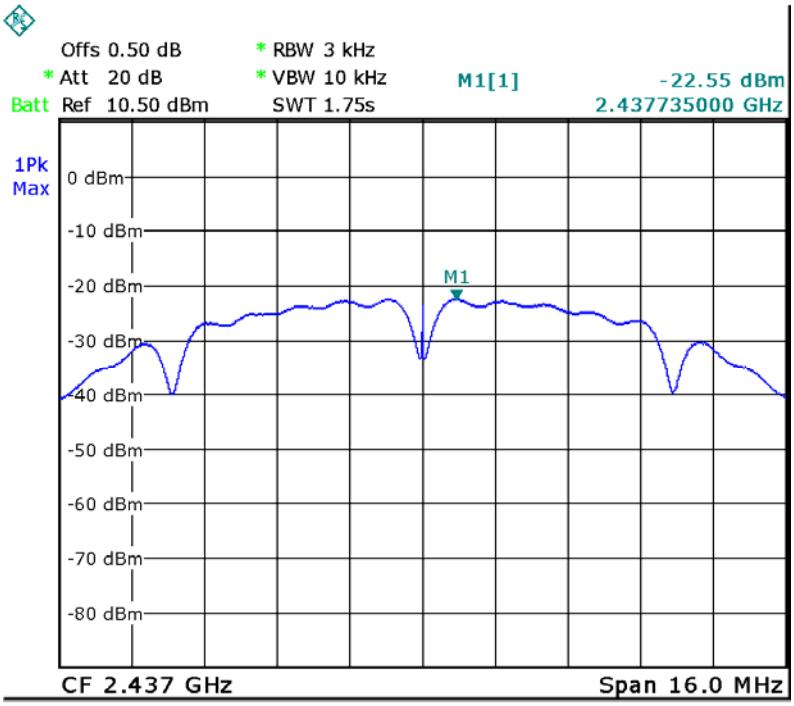
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-28.50	-28.61	-28.70
Limit		
8dBm per 3kHz		

Test mode : TX BT BLE		
Power Spectral (dBm per 3kHz)		
2402MHz	2440MHz	2480MHz
-19.62	-18.85	-19.61
Limit		
8dBm per 3kHz		

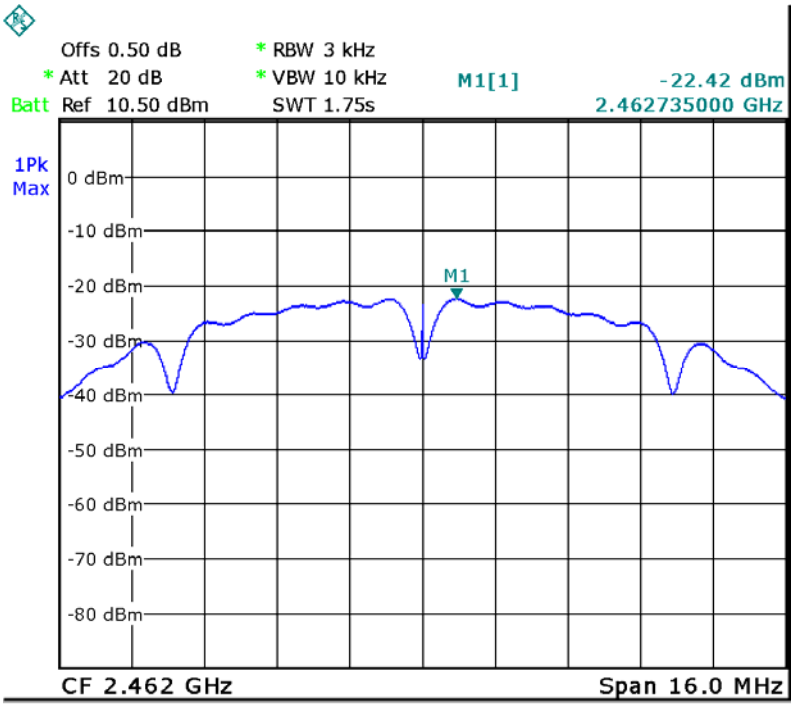
Mode: TX 11b channel 1



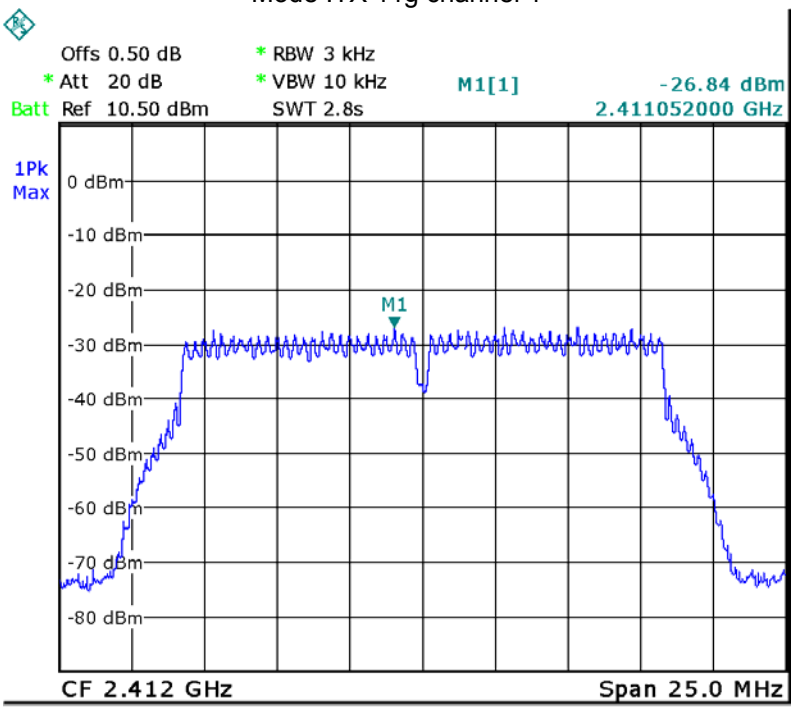
Mode: TX 11b channel 6



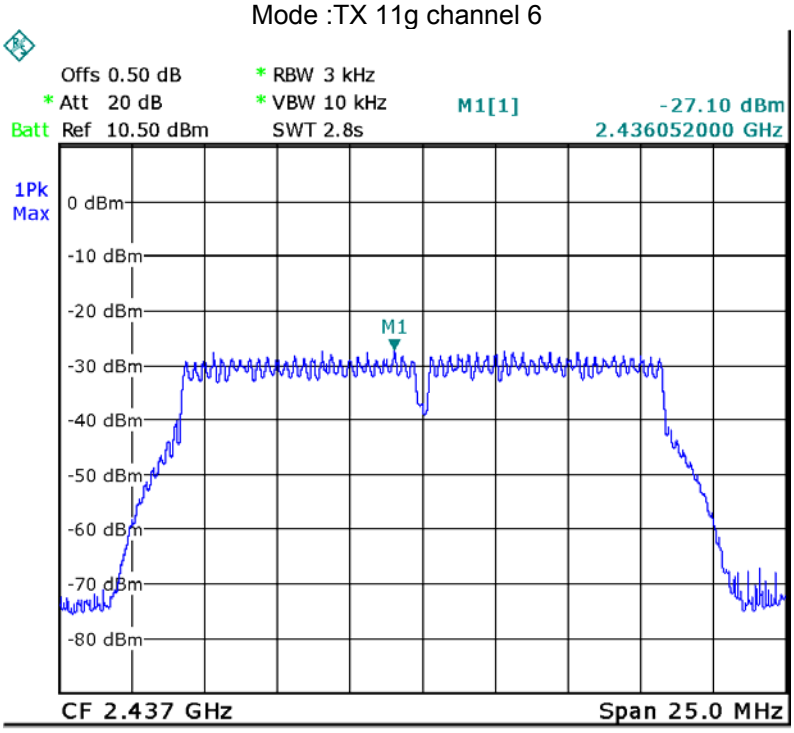
Mode: TX 11b channel 11



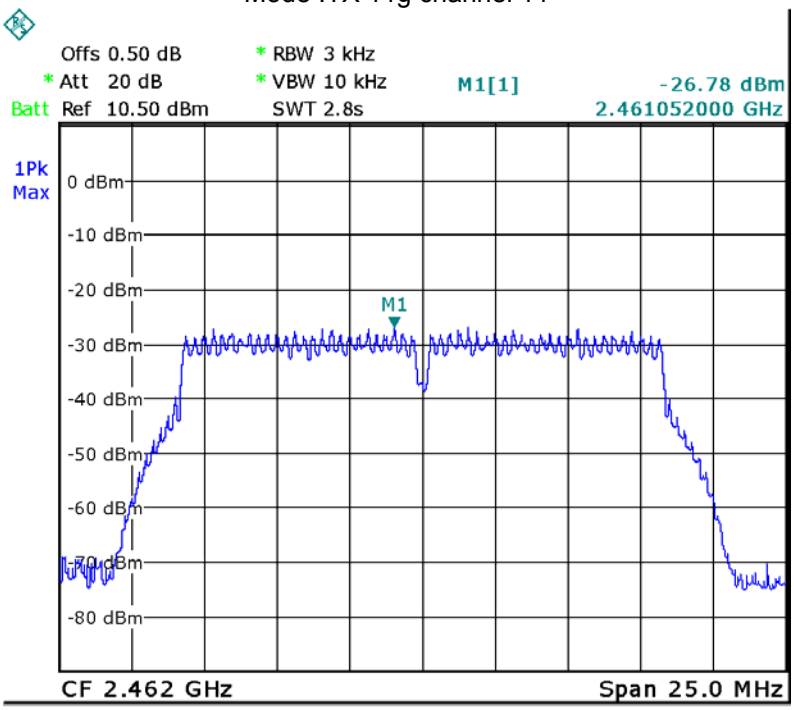
Mode :TX 11g channel 1



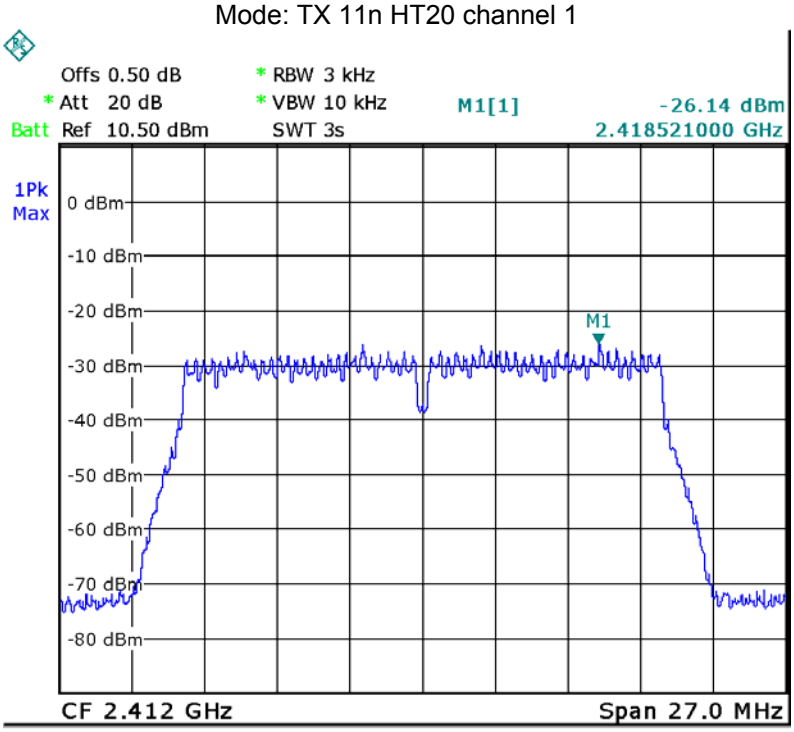
Mode :TX 11g channel 6



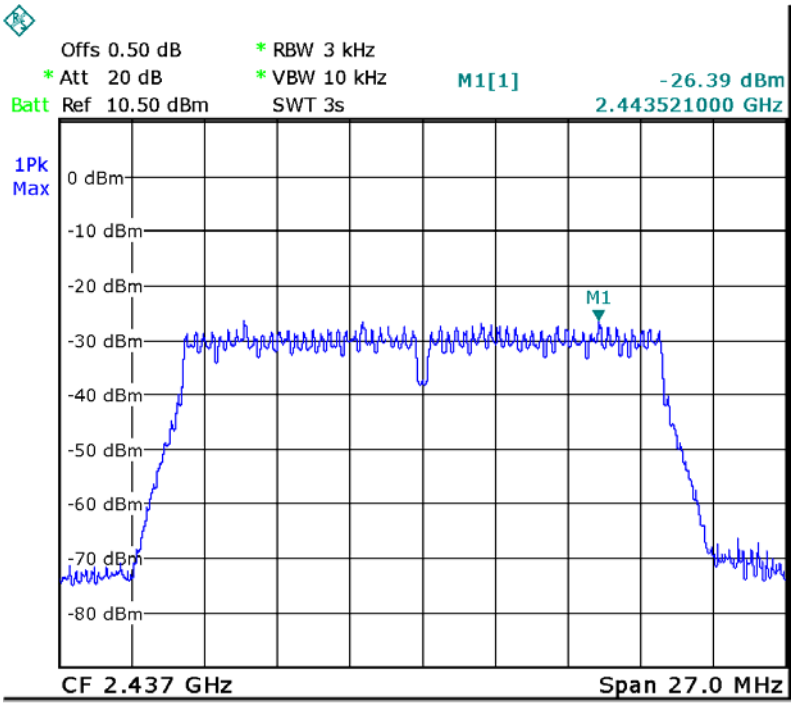
Mode :TX 11g channel 11



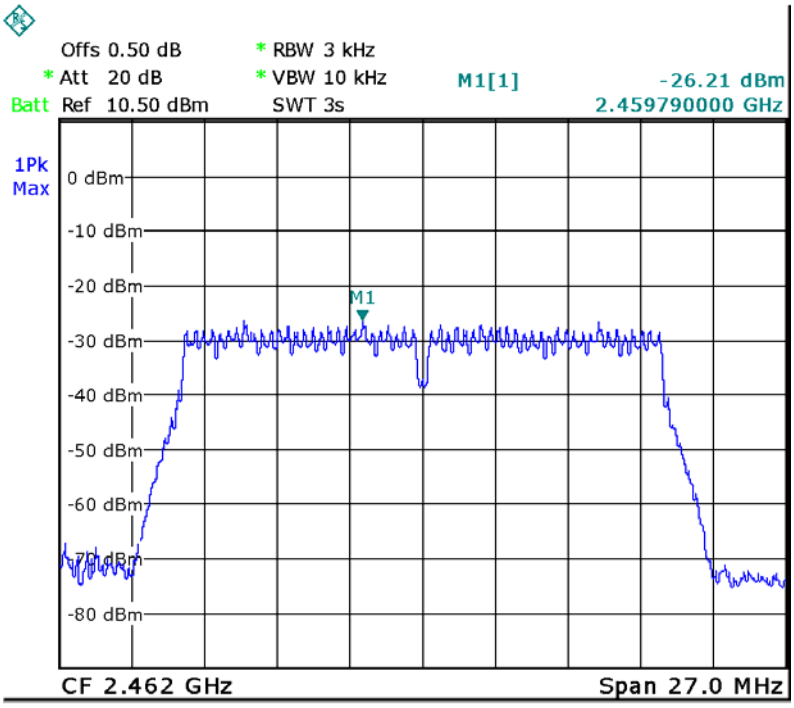
Mode: TX 11n HT20 channel 1



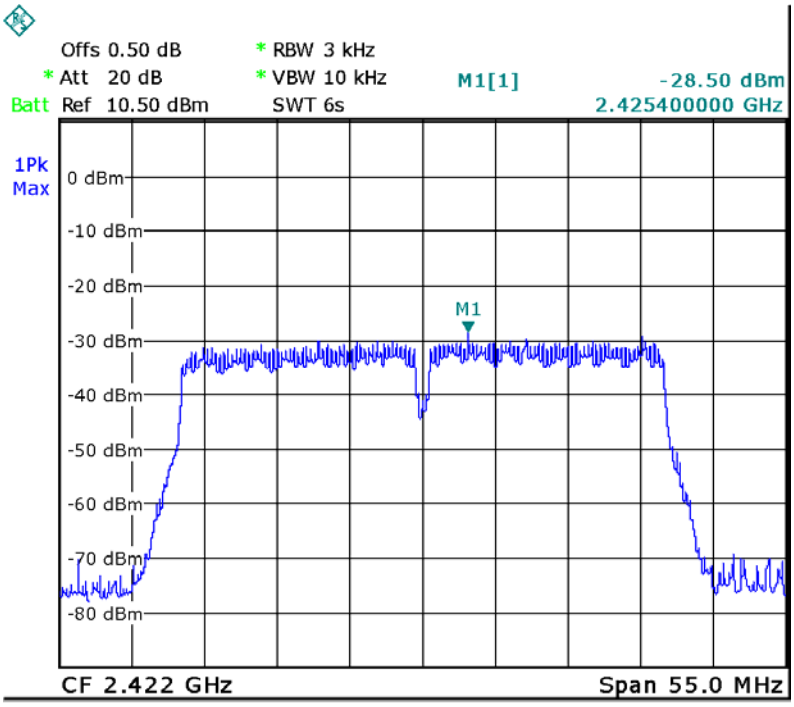
Mode: TX 11n HT20 channel 6



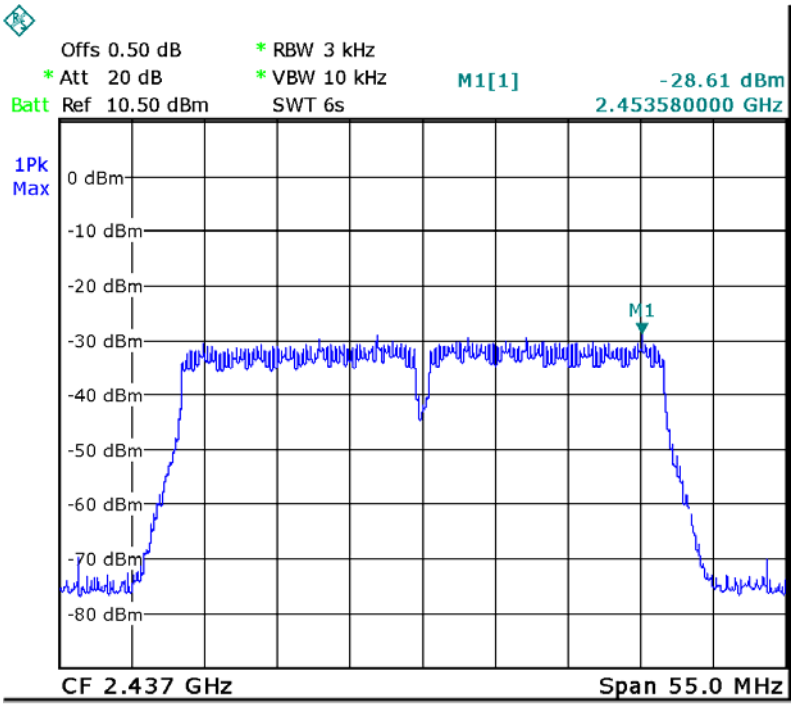
Mode: TX 11n HT20 channel 11



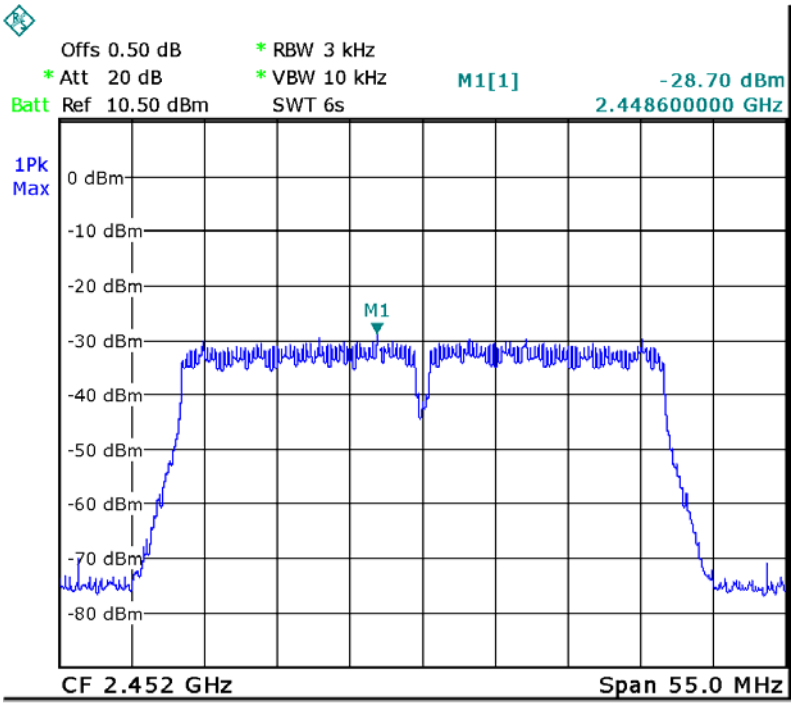
Mode: TX 11n HT40 channel 3



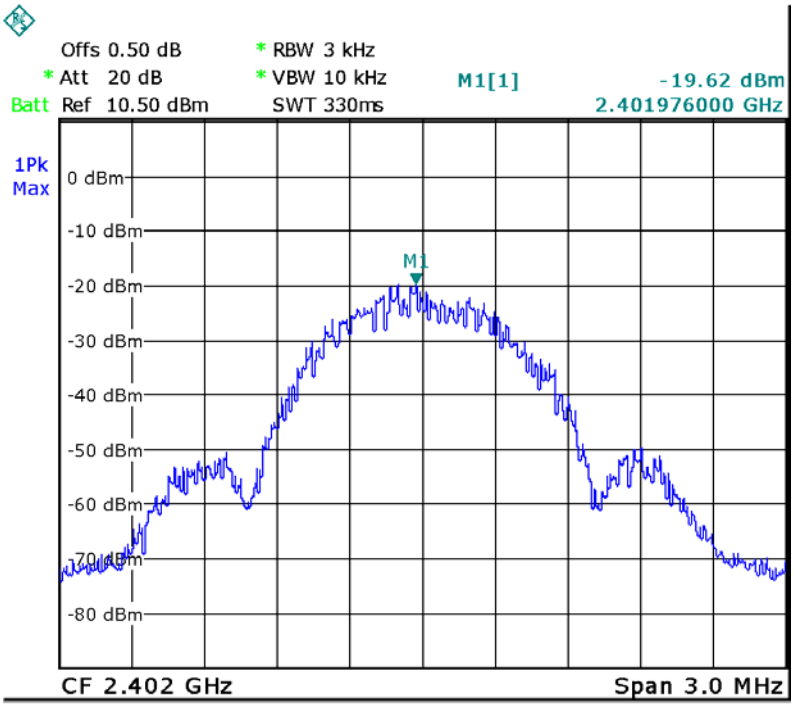
Mode: TX 11n HT40 channel 6



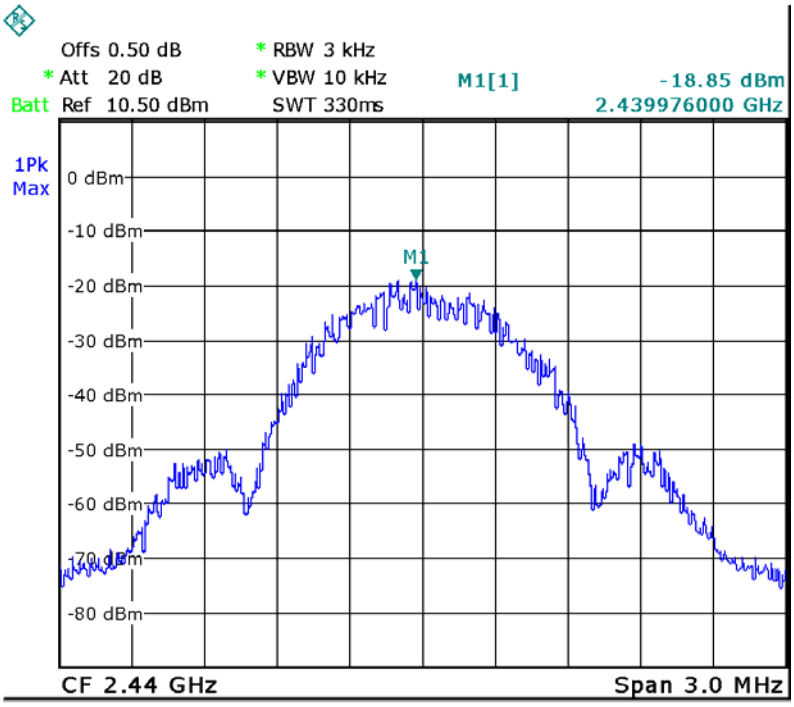
Mode: TX 11n HT40 channel 9



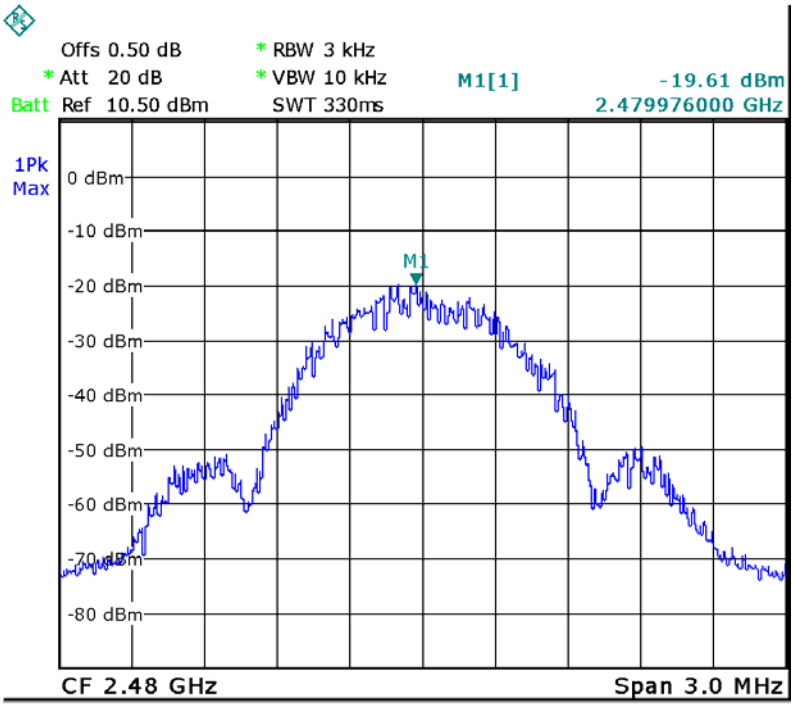
Mode: TX BT BLE channel 0



Mode: TX BT BLE channel 19



Mode: TX BT BLE channel 39



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 an integrated antenna fulfill the requirement of this section.

13 RF Exposure

Remark: refer to SAR test report: STR15068098E.

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