

TEST REPORT

Reference No. : WTD22D03052145W001 V1
FCC ID : 2AOT9-NBDVR380GW-B
Applicant..... : Portable Multimedia Limited
Address..... : Unit 2, Caerphilly Business Park, Caerphilly, Mid Glamorgan CF83
3ED, United Kingdom
Manufacturer : Shenzhen Samoon Technology Co., Ltd
Address..... : 9th Floor, Block 7, Zhongyuntai Industrial Park, Songbai Road,
Shiyan Town, Bao'an District, Shenzhen, China.
Product..... : 380GW Discreet
Model(s). : NBDVR380GW, FE-NBDVR380GW, NBDVR380GW-WHT,
FE-NBDVR380GW-WHT, VYDVR380GW, FE-VYDVR380GW,
NBDVR381GW, FE-NBDVR381GW, NBDVR382GW,
FE-NBDVR382GW, 380GW-VM, NBDVR380GW-VM, PW6A3-
00110, PW6A3-00011, PW6A3-00210, PW6A3-00021, PW6A3-
00310, PW6A3-00014
Standards..... : FCC CFR47 Part 15.247
Date of Receipt sample : 2022-03-25
Date of Test : 2022-03-25 to 2022-04-08
Date of Issue..... : 2022-05-23
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:
Waltek Testing Group Co., Ltd.

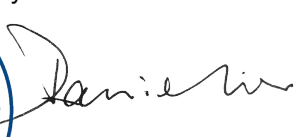
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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D03052145 W001	2022-03-25	2022-03-25 to 2022-04-08	2022-05-20	Original	-	Replaced
WTD22D03052145 W001 V1	2022-03-25	2022-03-25 to 2022-04-08	2022-05-23	Version 1	Updated	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	380GW Discreet
Model(s):	NBDVR380GW, FE-NBDVR380GW, NBDVR380GW-WHT, FE-NBDVR380GW-WHT, VYDVR380GW, FE-VYDVR380GW, NBDVR381GW, FE-NBDVR381GW, NBDVR382GW, FE-NBDVR382GW, 380GW-VM, NBDVR380GW-VM, PW6A3-00110, PW6A3-00011, PW6A3-00210, PW6A3-00021, PW6A3-00310, PW6A3-00014
Model Description:	Only the models name are different. Model NBDVR380GW was tested in this report.
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Highest frequency (Exclude Radio):	26MHz
Storage Location:	Internal Storage
Note:	N/A

4.2 Details of E.U.T.

Operation Frequency:	WiFi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz
Max. RF output power:	WiFi(2.4G): 15.86dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: internal permanent antenna
Antenna Gain:	WiFi(2.4G): 0dBi
Ratings:	DC 12/24V for battery

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	-

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	150 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	150 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	150 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	150 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	150 Mbps	3/6/9	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 .

4.5 Test Facility

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

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group 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, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group 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 number 523476, September 10, 2019.

5 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)	N/A
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

6 Equipment Used during Test

6.1 Equipments List

3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2021-04-26	2022-04-25
2	Amplifier	Agilent	8447D	2944A10178	2021-07-26	2022-07-25
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2021-08-21	2022-08-20
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2021-04-26	2022-04-25
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2021-04-30	2022-04-29
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2021-07-26	2022-07-25
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2021-04-26	2022-04-25
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2021-04-30	2022-04-29
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	2021-04-26	2022-04-25
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2021-04-26	2022-04-25
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2021-04-29	2022-04-28
4	Amplifier	ANRITSU	MH648A	M43381	2021-04-26	2022-04-25
5	Cable	HUBER+SUHNER	CBL2	525178	2021-04-26	2022-04-25
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	2021-04-26	2022-04-25
2.	Spectrum Analyzer	R&S	FSP30	100091	2021-04-26	2022-04-25
3.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2021-04-26	2022-04-25

6.2 Description of Support Units

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

6.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Conducted Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)
Conducted Spurious Emissions test	± 3.12 dB (9kHz~30MHz)
	± 4.21 dB (30M~1000MHz)
	± 5.14 dB (1000M~26500MHz)

6.4 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.

7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

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

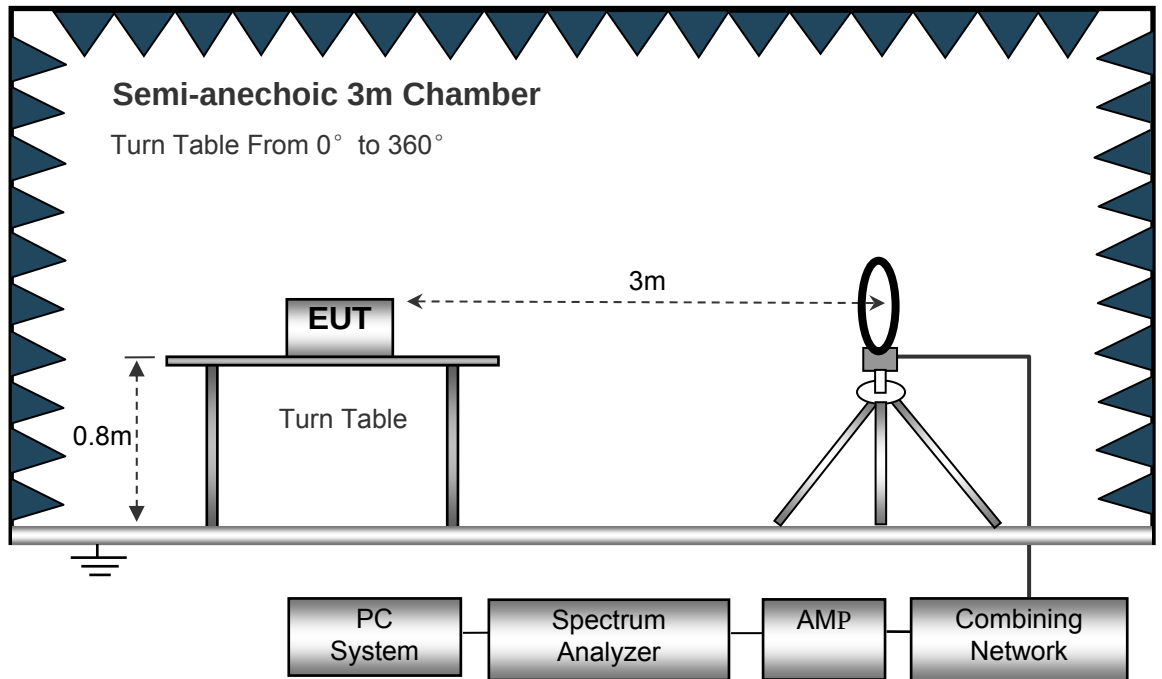
EUT Operation :

The test was performed in WIFI link mode, the test data were shown in the report.

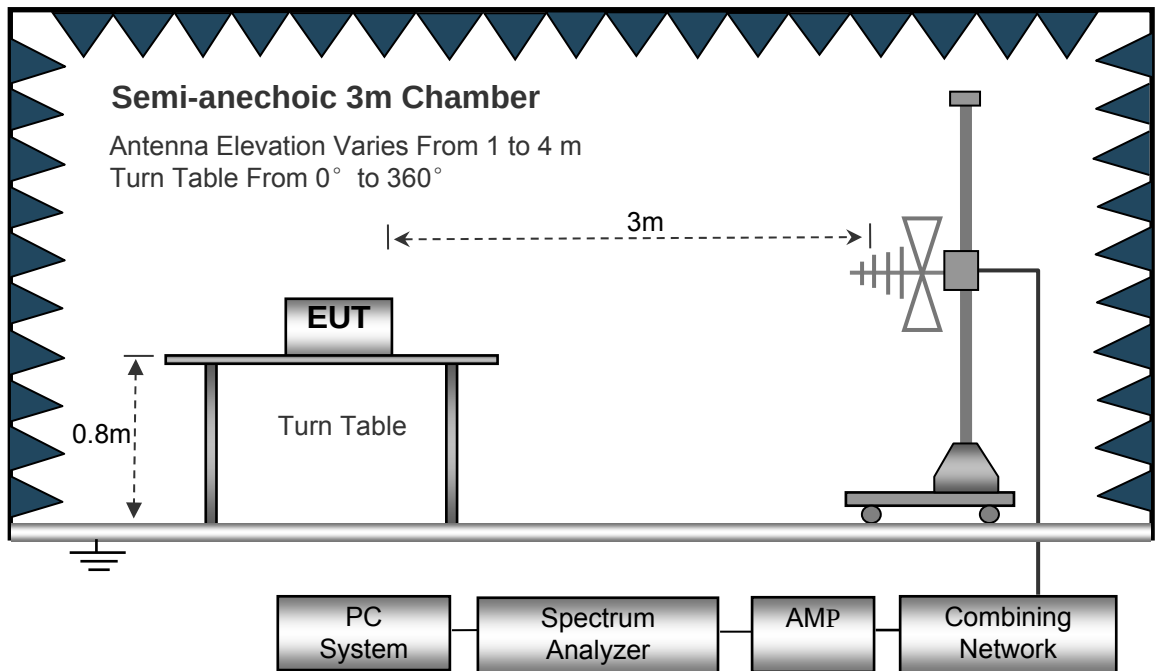
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

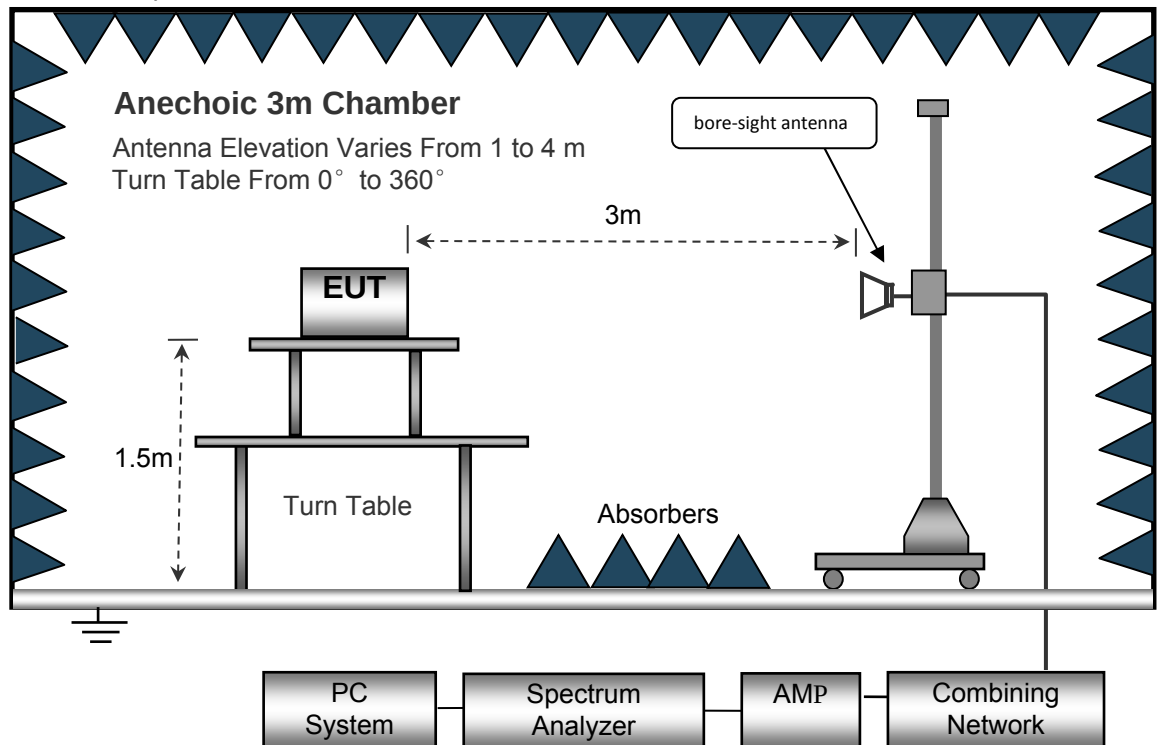
The test setup for emission measurement below 30MHz.



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 for below 1GHz and 1.5m for above 1GHz.
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 Z 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: 9KHz~30MHz

Remark: only the worst data (802.11b/g/n Low channel mode) were recorded.

Frequency	Measurement results dBμV @3m	Detector PK/QP	Correct factor dB/m	Extrapolation factor dB	Measurement results (calculated) dBμV/m @30m	Limits dBμV/m @30m	Margin dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
802.11b							
6.021	25.88	QP	21.84	40.00	7.72	29.54	-21.82
15.732	25.58	QP	21.35	40.00	6.93	29.54	-22.61
25.681	24.43	QP	20.67	40.00	5.10	29.54	-24.44
802.11g							
6.021	25.68	QP	21.84	40.00	7.52	29.54	-22.02
15.732	25.46	QP	21.35	40.00	6.81	29.54	-22.73
25.681	24.39	QP	20.67	40.00	5.06	29.54	-24.48
802.11n(HT20)							
6.021	25.57	QP	21.84	40.00	7.41	29.54	-22.13
15.732	25.86	QP	21.35	40.00	7.21	29.54	-22.33
25.681	24.66	QP	20.67	40.00	5.33	29.54	-24.21
802.11n(HT40)							
6.021	25.71	QP	21.84	40.00	7.55	29.54	-21.99
15.732	25.35	QP	21.35	40.00	6.70	29.54	-22.84
25.681	24.26	QP	20.67	40.00	4.93	29.54	-24.61

Test Frequency : 30MHz ~ 8GHz

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									
223.43	33.93	QP	244	1.8	H	-11.62	22.31	46.00	-23.69
223.43	29.21	QP	39	1.1	V	-11.62	17.59	46.00	-28.41
4824.00	54.93	PK	272	1.5	V	-1.06	53.87	74.00	-20.13
4824.00	37.85	Ave	272	1.5	V	-1.06	36.79	54.00	-17.21
7236.00	43.65	PK	353	1.9	H	1.33	44.98	74.00	-29.02
7236.00	41.55	Ave	353	1.9	H	1.33	42.88	54.00	-11.12
2311.65	45.79	PK	87	1.2	V	-13.19	32.60	74.00	-41.40
2311.65	37.69	Ave	87	1.2	V	-13.19	24.50	54.00	-29.50
2368.66	43.22	PK	69	1.4	H	-13.14	30.08	74.00	-43.92
2368.66	36.91	Ave	69	1.4	H	-13.14	23.77	54.00	-30.23
2487.63	42.73	PK	137	1.2	V	-13.08	29.65	74.00	-44.35
2487.63	36.05	Ave	137	1.2	V	-13.08	22.97	54.00	-31.03

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									
223.43	33.40	QP	126	1.7	H	-11.62	21.78	46.00	-24.22
223.43	28.37	QP	153	1.6	V	-11.62	16.75	46.00	-29.25
4874.00	55.84	PK	117	1.1	V	-0.62	55.22	74.00	-18.78
4874.00	37.37	Ave	117	1.1	V	-0.62	36.75	54.00	-17.25
7311.00	43.55	PK	166	1.3	H	2.21	45.76	74.00	-28.24
7311.00	42.69	Ave	166	1.3	H	2.21	44.90	54.00	-9.10
2313.19	46.73	PK	206	1.5	V	-13.19	33.54	74.00	-40.46
2313.19	38.65	Ave	206	1.5	V	-13.19	25.46	54.00	-28.54
2351.90	42.61	PK	358	1.6	H	-13.14	29.47	74.00	-44.53
2351.90	37.12	Ave	358	1.6	H	-13.14	23.98	54.00	-30.02
2497.29	42.02	PK	323	1.2	V	-13.08	28.94	74.00	-45.06
2497.29	37.77	Ave	323	1.2	V	-13.08	24.69	54.00	-29.31

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									
223.43	34.20	QP	78	1.0	H	-11.62	22.58	46.00	-23.42
223.43	28.52	QP	251	1.1	V	-11.62	16.90	46.00	-29.10
4924.00	54.48	PK	78	1.4	V	-0.24	54.24	74.00	-19.76
4924.00	36.65	Ave	78	1.4	V	-0.24	36.41	54.00	-17.59
7386.00	43.73	PK	169	1.2	H	2.84	46.57	74.00	-27.43
7386.00	41.31	Ave	169	1.2	H	2.84	44.15	54.00	-9.85
2310.82	46.63	PK	309	1.0	V	-13.19	33.44	74.00	-40.56
2310.82	38.48	Ave	309	1.0	V	-13.19	25.29	54.00	-28.71
2370.20	44.76	PK	334	1.0	H	-13.14	31.62	74.00	-42.38
2370.20	38.22	Ave	334	1.0	H	-13.14	25.08	54.00	-28.92
2495.15	43.44	PK	352	1.6	V	-13.08	30.36	74.00	-43.64
2495.15	38.01	Ave	352	1.6	V	-13.08	24.93	54.00	-29.07

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)
11g: Low Channel 2412MHz									
223.43	34.06	QP	336	1.7	H	-11.62	22.44	46.00	-23.56
223.43	28.27	QP	195	1.0	V	-11.62	16.65	46.00	-29.35
4824.00	55.81	PK	85	2.0	V	-1.06	54.75	74.00	-19.25
4824.00	35.59	Ave	85	2.0	V	-1.06	34.53	54.00	-19.47
7236.00	42.50	PK	16	1.2	H	1.33	43.83	74.00	-30.17
7236.00	42.31	Ave	16	1.2	H	1.33	43.64	54.00	-10.36
2331.87	45.76	PK	102	1.7	V	-13.19	32.57	74.00	-41.43
2331.87	39.51	Ave	102	1.7	V	-13.19	26.32	54.00	-27.68
2358.95	43.71	PK	274	1.5	H	-13.14	30.57	74.00	-43.43
2358.95	36.82	Ave	274	1.5	H	-13.14	23.68	54.00	-30.32
2485.00	43.44	PK	108	2.0	V	-13.08	30.36	74.00	-43.64
2485.00	36.17	Ave	108	2.0	V	-13.08	23.09	54.00	-30.91

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									
223.43	34.34	QP	157	1.2	H	-11.62	22.72	46.00	-23.28
223.43	28.26	QP	286	1.5	V	-11.62	16.64	46.00	-29.36
4874.00	55.44	PK	9	1.9	V	-0.62	54.82	74.00	-19.18
4874.00	34.75	Ave	9	1.9	V	-0.62	34.13	54.00	-19.87
7311.00	42.75	PK	337	1.9	H	2.21	44.96	74.00	-29.04
7311.00	43.55	Ave	337	1.9	H	2.21	45.76	54.00	-8.24
2346.94	45.95	PK	295	1.5	V	-13.19	32.76	74.00	-41.24
2346.94	37.04	Ave	295	1.5	V	-13.19	23.85	54.00	-30.15
2383.98	42.88	PK	284	1.1	H	-13.14	29.74	74.00	-44.26
2383.98	37.86	Ave	284	1.1	H	-13.14	24.72	54.00	-29.28
2494.24	43.92	PK	166	1.2	V	-13.08	30.84	74.00	-43.16
2494.24	37.77	Ave	166	1.2	V	-13.08	24.69	54.00	-29.31

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									
223.43	35.28	QP	149	1.2	H	-11.62	23.66	46.00	-22.34
223.43	29.21	QP	138	1.3	V	-11.62	17.59	46.00	-28.41
4924.00	55.76	PK	92	1.9	V	-0.24	55.52	74.00	-18.48
4924.00	33.27	Ave	92	1.9	V	-0.24	33.03	54.00	-20.97
7386.00	41.59	PK	264	1.8	H	2.84	44.43	74.00	-29.57
7386.00	44.95	Ave	264	1.8	H	2.84	47.79	54.00	-6.21
2314.47	46.20	PK	281	1.5	V	-13.19	33.01	74.00	-40.99
2314.47	38.01	Ave	281	1.5	V	-13.19	24.82	54.00	-29.18
2360.36	44.61	PK	64	1.4	H	-13.14	31.47	74.00	-42.53
2360.36	36.85	Ave	64	1.4	H	-13.14	23.71	54.00	-30.29
2486.05	42.65	PK	51	1.7	V	-13.08	29.57	74.00	-44.43
2486.05	38.72	Ave	51	1.7	V	-13.08	25.64	54.00	-28.36

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)
11n20: Low Channel 2412MHz									
223.43	34.03	QP	68	1.2	H	-11.62	22.41	46.00	-23.59
223.43	29.92	QP	266	1.7	V	-11.62	18.30	46.00	-27.70
4824.00	54.51	PK	56	1.6	V	-1.06	53.45	74.00	-20.55
4824.00	31.93	Ave	56	1.6	V	-1.06	30.87	54.00	-23.13
7236.00	40.58	PK	228	2.0	H	1.33	41.91	74.00	-32.09
7236.00	44.27	Ave	228	2.0	H	1.33	45.60	54.00	-8.40
2320.73	46.51	PK	46	1.8	V	-13.19	33.32	74.00	-40.68
2320.73	38.63	Ave	46	1.8	V	-13.19	25.44	54.00	-28.56
2375.21	43.79	PK	290	1.7	H	-13.14	30.65	74.00	-43.35
2375.21	38.68	Ave	290	1.7	H	-13.14	25.54	54.00	-28.46
2486.19	42.46	PK	201	1.5	V	-13.08	29.38	74.00	-44.62
2486.19	37.14	Ave	201	1.5	V	-13.08	24.06	54.00	-29.94

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)
11n20: Middle Channel 2437MHz									
223.43	34.13	QP	280	1.3	H	-11.62	22.51	46.00	-23.49
223.43	29.84	QP	177	1.9	V	-11.62	18.22	46.00	-27.78
4874.00	55.74	PK	1	1.3	V	-0.62	55.12	74.00	-18.88
4874.00	31.85	Ave	1	1.3	V	-0.62	31.23	54.00	-22.77
7311.00	41.49	PK	242	1.7	H	2.21	43.70	74.00	-30.30
7311.00	45.73	Ave	242	1.7	H	2.21	47.94	54.00	-6.06
2344.86	45.07	PK	86	1.4	V	-13.19	31.88	74.00	-42.12
2344.86	37.92	Ave	86	1.4	V	-13.19	24.73	54.00	-29.27
2354.63	42.26	PK	210	1.9	H	-13.14	29.12	74.00	-44.88
2354.63	38.11	Ave	210	1.9	H	-13.14	24.97	54.00	-29.03
2484.27	42.78	PK	261	1.5	V	-13.08	29.70	74.00	-44.30
2484.27	36.92	Ave	261	1.5	V	-13.08	23.84	54.00	-30.16

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)
11n20: High Channel 2462MHz									
223.43	34.38	QP	190	1.8	H	-11.62	22.76	46.00	-23.24
223.43	29.78	QP	283	1.8	V	-11.62	18.16	46.00	-27.84
4924.00	54.41	PK	98	1.2	V	-0.24	54.17	74.00	-19.83
4924.00	32.80	Ave	98	1.2	V	-0.24	32.56	54.00	-21.44
7386.00	41.29	PK	282	1.9	H	2.84	44.13	74.00	-29.87
7386.00	45.89	Ave	282	1.9	H	2.84	48.73	54.00	-5.27
2312.12	46.69	PK	242	1.0	V	-13.19	33.50	74.00	-40.50
2312.12	37.55	Ave	242	1.0	V	-13.19	24.36	54.00	-29.64
2380.57	44.00	PK	82	1.1	H	-13.14	30.86	74.00	-43.14
2380.57	38.47	Ave	82	1.1	H	-13.14	25.33	54.00	-28.67
2493.96	43.12	PK	16	1.3	V	-13.08	30.04	74.00	-43.96
2493.96	38.13	Ave	16	1.3	V	-13.08	25.05	54.00	-28.95

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)
11n40: Low Channel 2422MHz									
223.43	34.93	QP	172	1.5	H	-11.62	23.31	46.00	-22.69
223.43	29.28	QP	118	1.5	V	-11.62	17.66	46.00	-28.34
4844.00	52.20	PK	235	1.9	V	-1.06	51.14	74.00	-22.86
4844.00	31.74	Ave	235	1.9	V	-1.06	30.68	54.00	-23.32
7266.00	40.17	PK	338	1.8	H	1.33	41.50	74.00	-32.50
7266.00	43.24	Ave	338	1.8	H	1.33	44.57	54.00	-9.43
2342.97	46.55	PK	42	1.9	V	-13.19	33.36	74.00	-40.64
2342.97	38.56	Ave	42	1.9	V	-13.19	25.37	54.00	-28.63
2387.29	42.49	PK	122	1.5	H	-13.14	29.35	74.00	-44.65
2387.29	38.24	Ave	122	1.5	H	-13.14	25.10	54.00	-28.90
2484.89	44.52	PK	309	1.4	V	-13.08	31.44	74.00	-42.56
2484.89	37.61	Ave	309	1.4	V	-13.08	24.53	54.00	-29.47

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)
11n40: Middle Channel 2437MHz									
223.43	34.78	QP	194	1.6	H	-11.62	23.16	46.00	-22.84
223.43	28.52	QP	327	1.7	V	-11.62	16.90	46.00	-29.10
4874.00	51.34	PK	271	1.9	V	-0.62	50.72	74.00	-23.28
4874.00	32.61	Ave	271	1.9	V	-0.62	31.99	54.00	-22.01
7311.00	40.95	PK	346	1.2	H	2.21	43.16	74.00	-30.84
7311.00	42.88	Ave	346	1.2	H	2.21	45.09	54.00	-8.91
2320.82	46.06	PK	23	2.0	V	-13.19	32.87	74.00	-41.13
2320.82	37.91	Ave	23	2.0	V	-13.19	24.72	54.00	-29.28
2376.25	43.19	PK	141	1.9	H	-13.14	30.05	74.00	-43.95
2376.25	38.21	Ave	141	1.9	H	-13.14	25.07	54.00	-28.93
2495.33	42.08	PK	81	1.5	V	-13.08	29.00	74.00	-45.00
2495.33	37.94	Ave	81	1.5	V	-13.08	24.86	54.00	-29.14

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)
11n40: High Channel 2452MHz									
223.43	35.42	QP	155	1.8	H	-11.62	23.80	46.00	-22.20
223.43	28.06	QP	290	1.3	V	-11.62	16.44	46.00	-29.56
4904.00	50.97	PK	213	1.1	V	-0.24	50.73	74.00	-23.27
4904.00	32.03	Ave	213	1.1	V	-0.24	31.79	54.00	-22.21
7356.00	41.71	PK	32	1.9	H	2.84	44.55	74.00	-29.45
7356.00	43.53	Ave	32	1.9	H	2.84	46.37	54.00	-7.63
2314.01	45.33	PK	110	1.6	V	-13.19	32.14	74.00	-41.86
2314.01	39.77	Ave	110	1.6	V	-13.19	26.58	54.00	-27.42
2384.90	44.68	PK	54	1.4	H	-13.14	31.54	74.00	-42.46
2384.90	37.50	Ave	54	1.4	H	-13.14	24.36	54.00	-29.64
2494.63	42.33	PK	303	1.4	V	-13.08	29.25	74.00	-44.75
2494.63	37.09	Ave	303	1.4	V	-13.08	24.01	54.00	-29.99

Test Frequency: 8GHz~25GHz

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

8 Duty Cycle

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
802.11b	12.4400	12.6400	0.98	98.42	0.07	-0.14
802.11g	2.0400	2.2100	0.92	92.31	0.35	-0.70
802.11n-HT20	1.8940	2.0680	0.92	91.59	0.38	-0.76
802.11n-HT40	0.9420	1.1340	0.83	83.07	0.81	-1.61

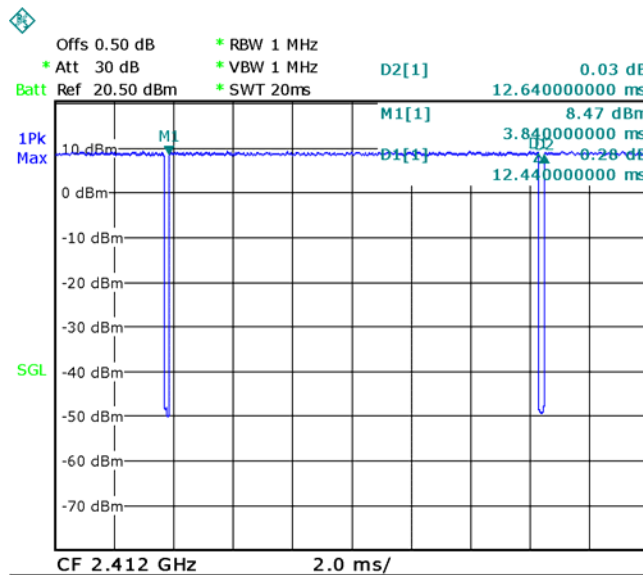
Remark:

Duty cycle=On Time/period;

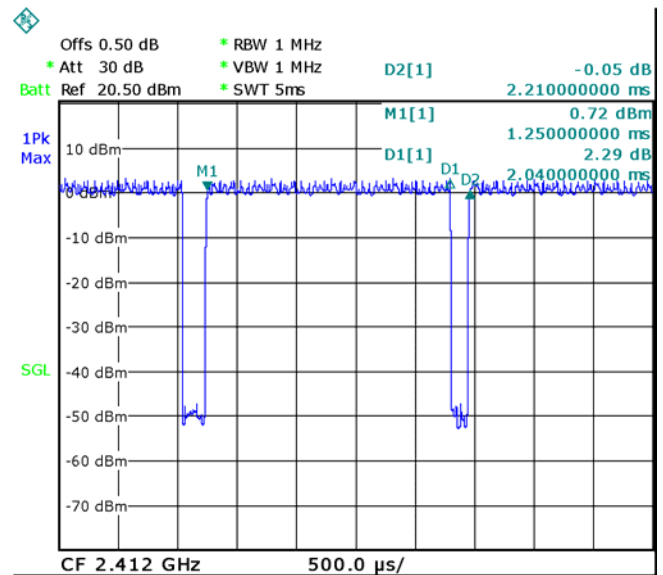
Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

Average factor= $20 \log_{10} \text{Duty cycle}$

Wi-Fi 802.11b

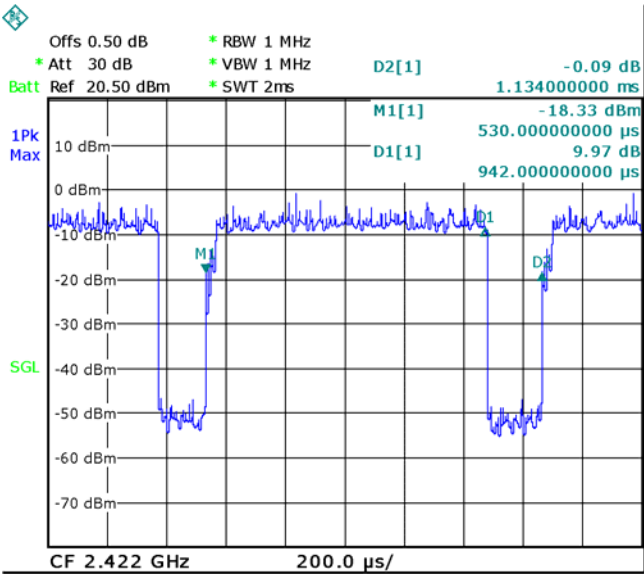
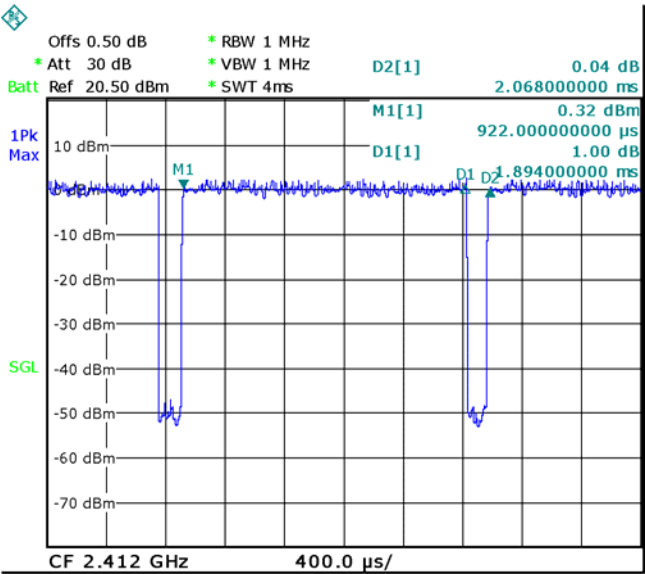


Wi-Fi 802.11g



Wi-Fi 802.11n-HT20

Wi-Fi 802.11n-HT40



9 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

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)).

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:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to _ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW _ $[3 \times \text{RBW}]$.
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

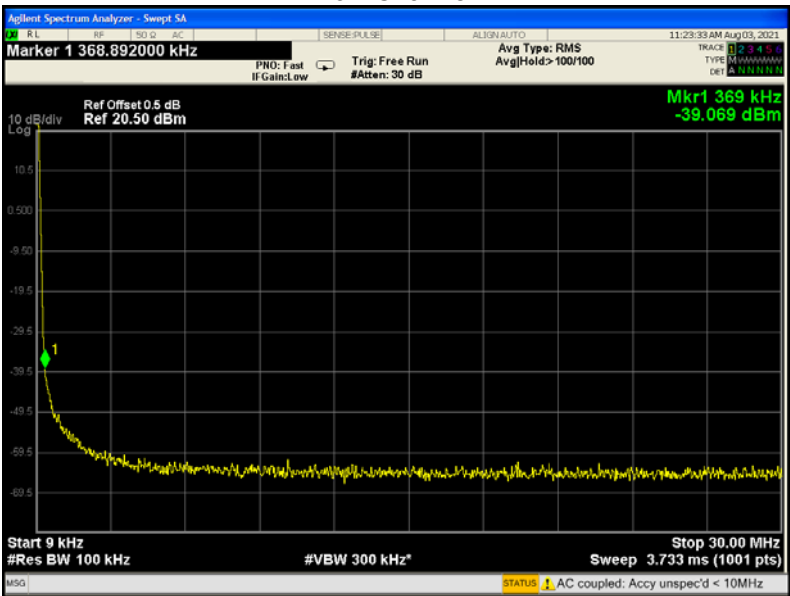
Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

9.2 Test Result

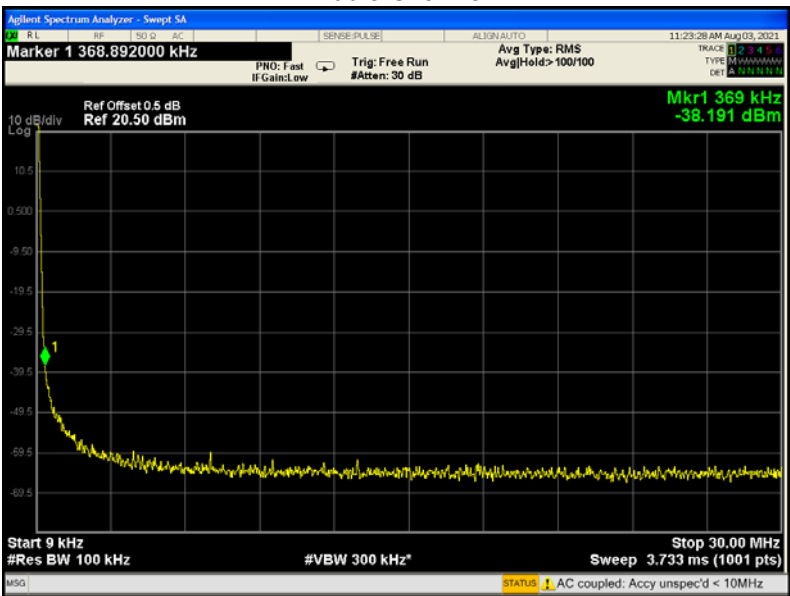
9KHz – 30MHz

802.11b

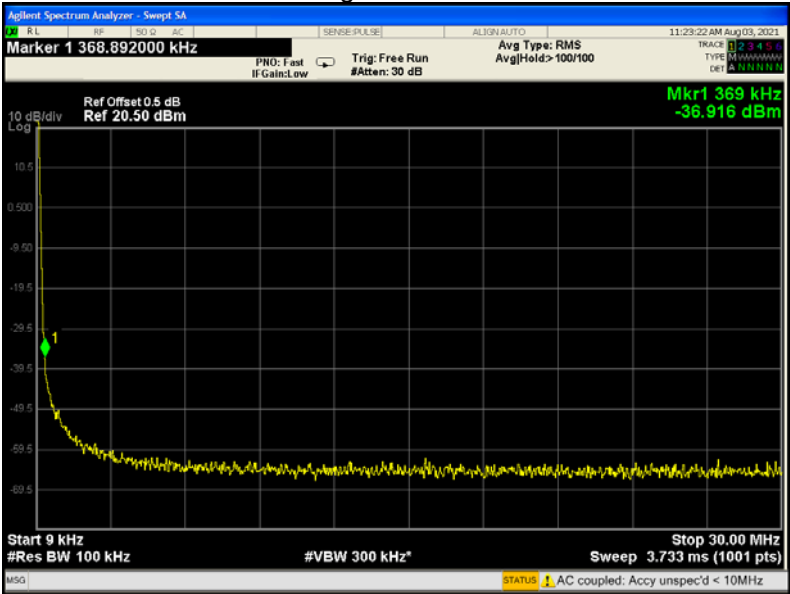
Low Channel



Middle Channel

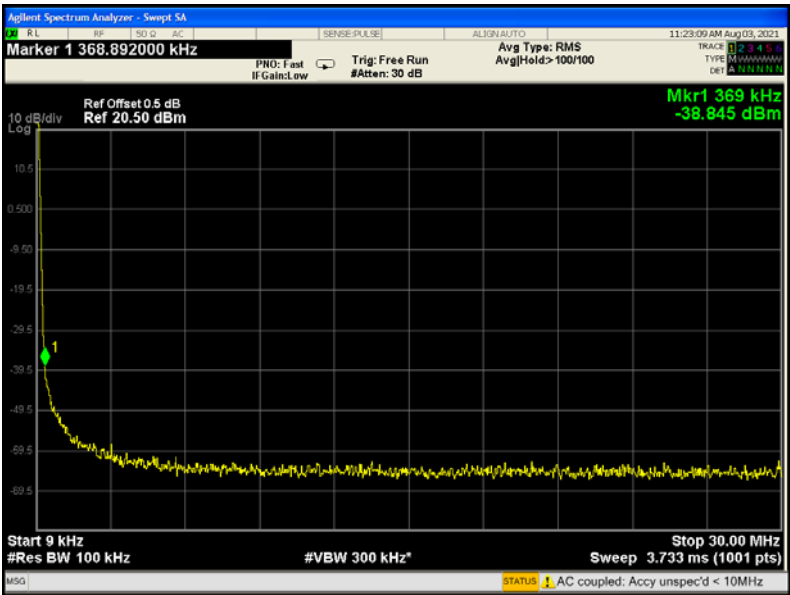


High Channel

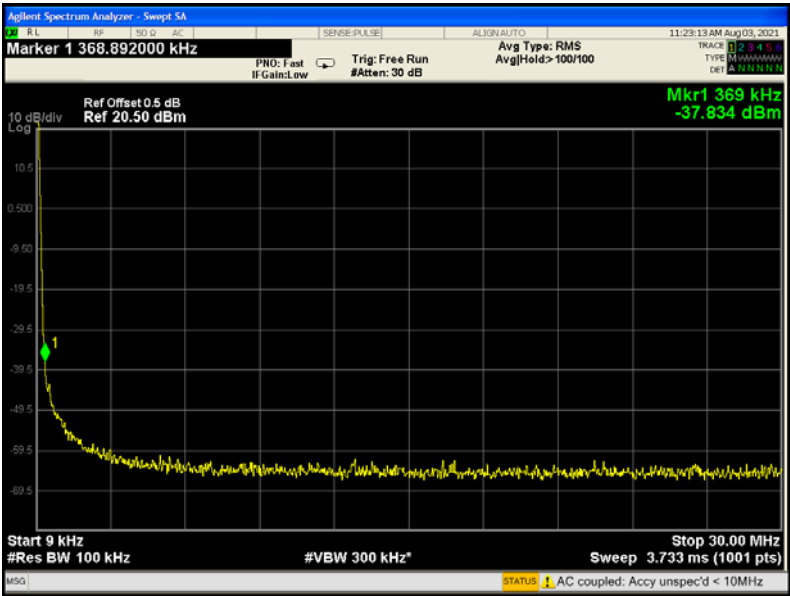


802.11g

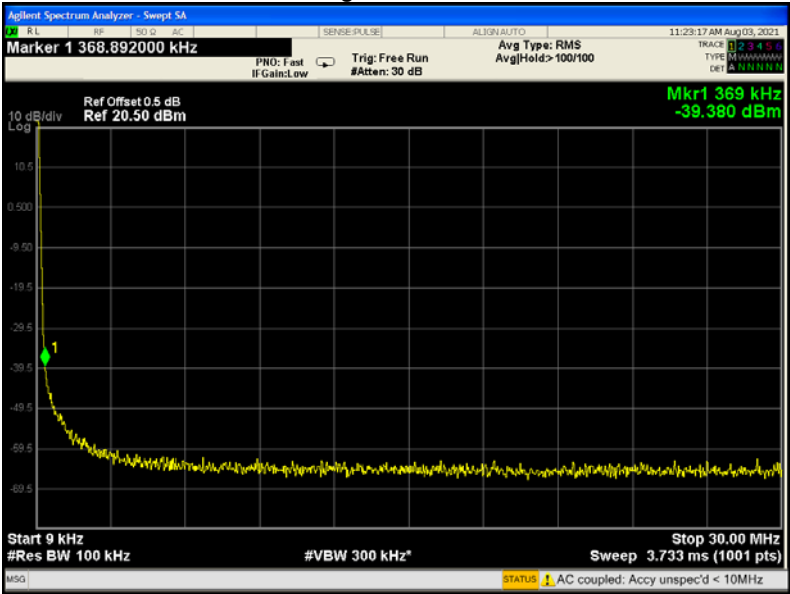
Low Channel



Middle Channel

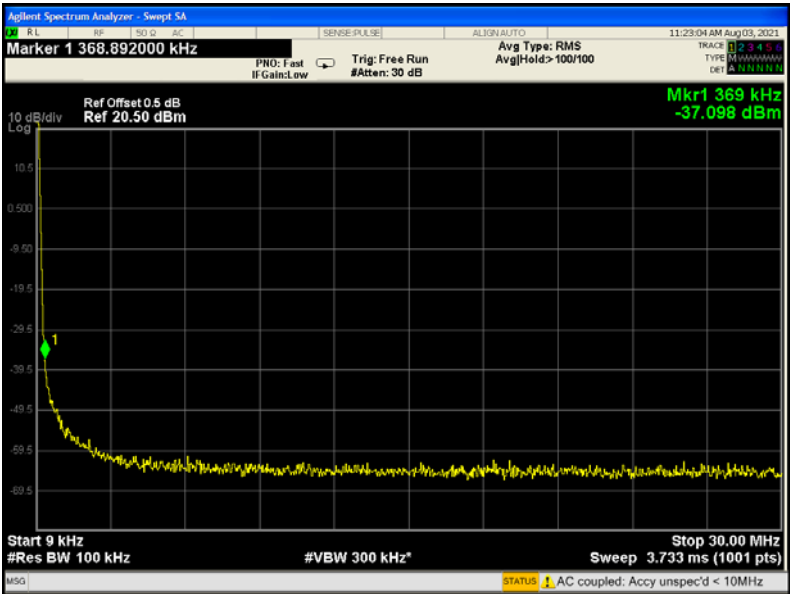


High Channel

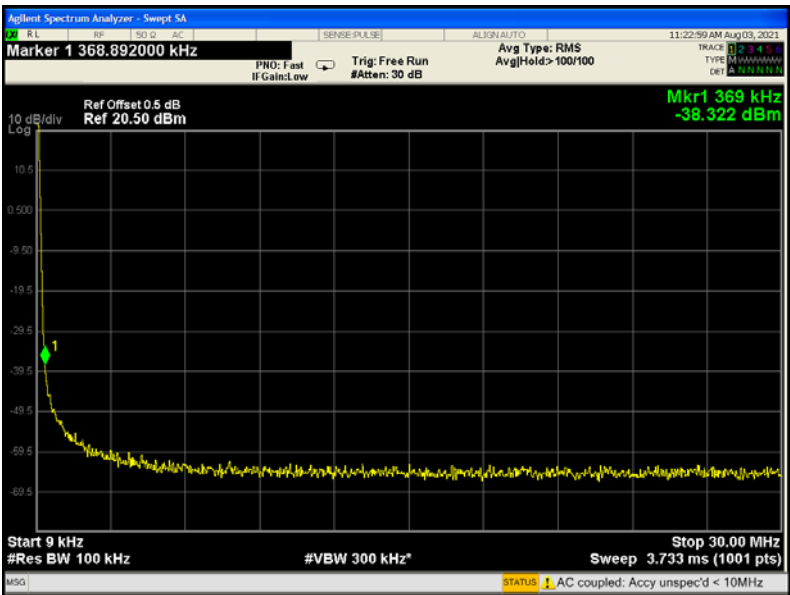


802.11n HT20

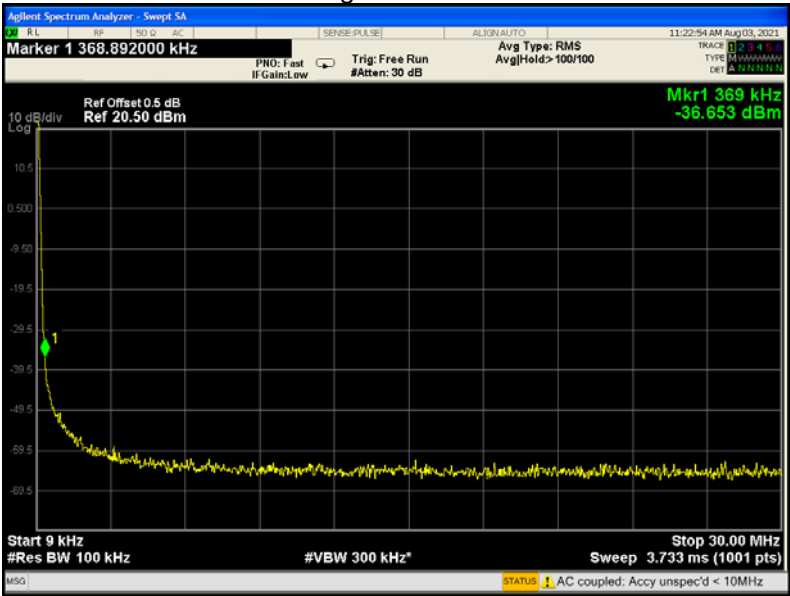
Low Channel



Middle Channel

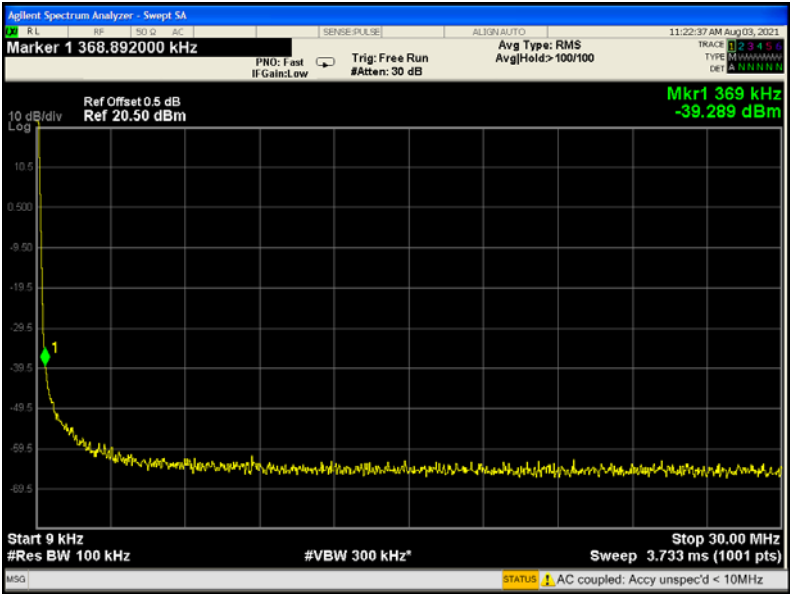


High Channel

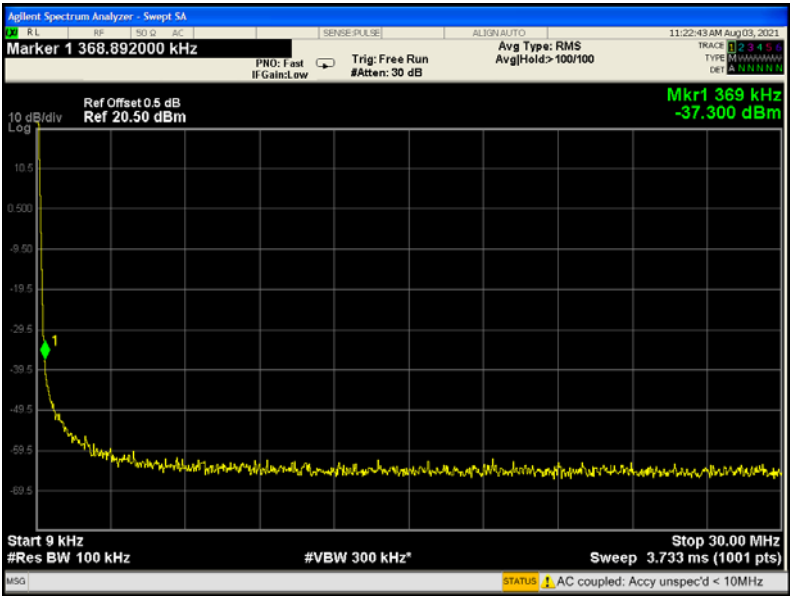


802.11n HT40

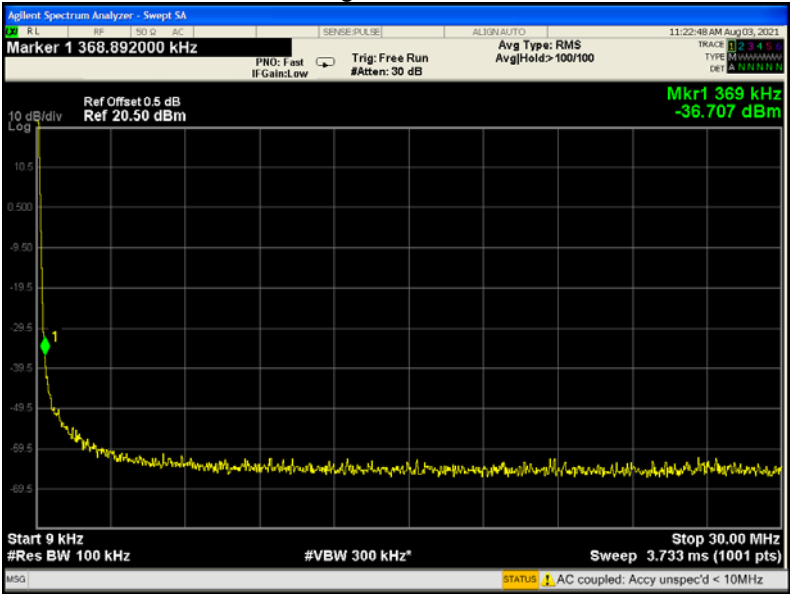
Low Channel



Middle Channel



High Channel

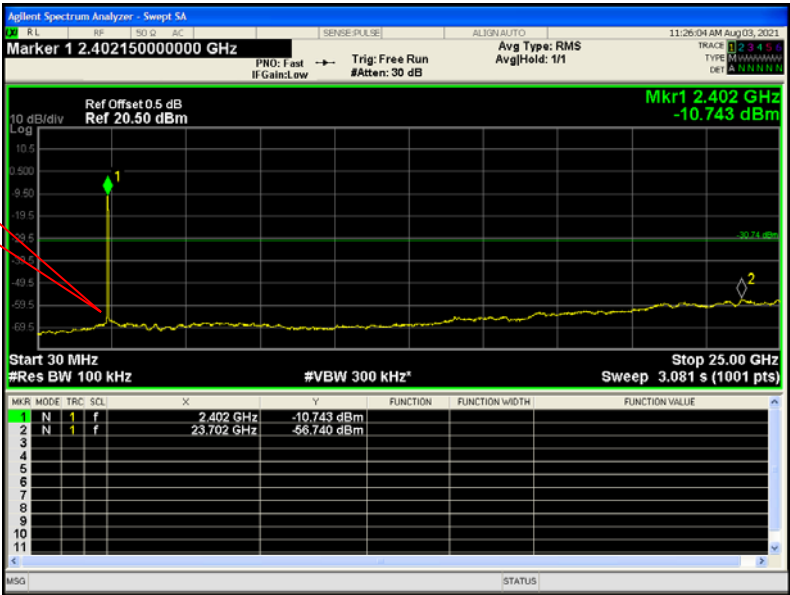


Above 30MHz

802.11b

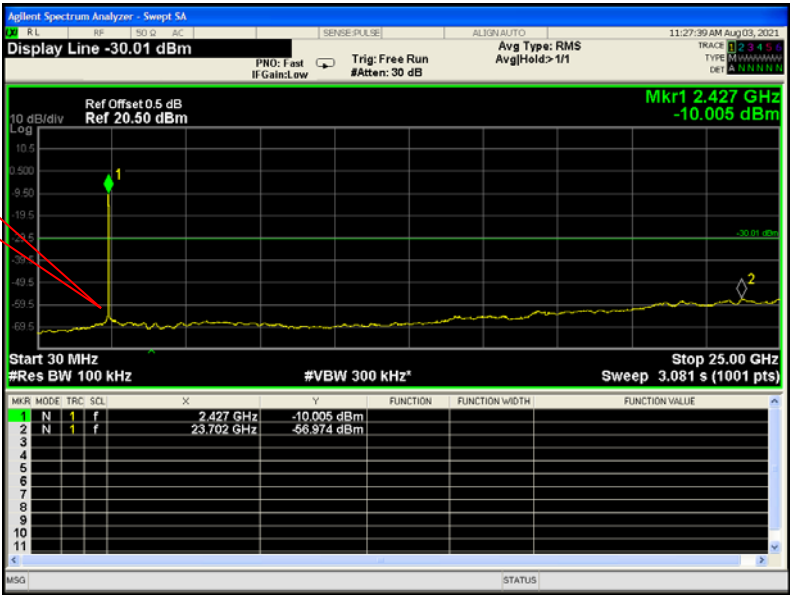
Low Channel

Fundamental



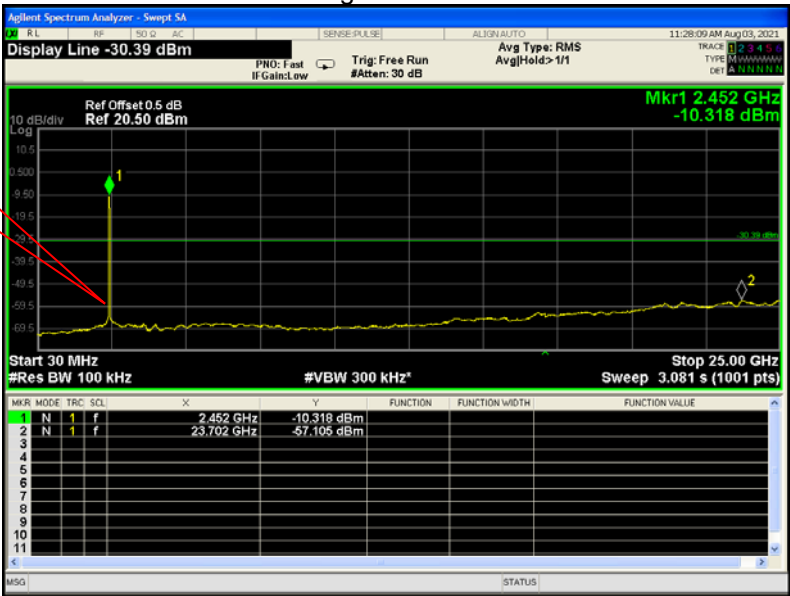
Middle Channel

Fundamental



High Channel

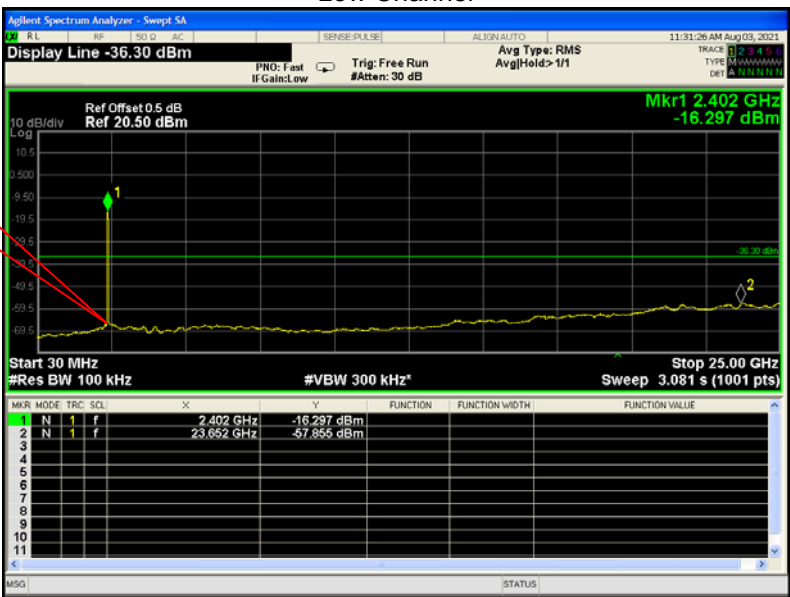
Fundamental



802.11g

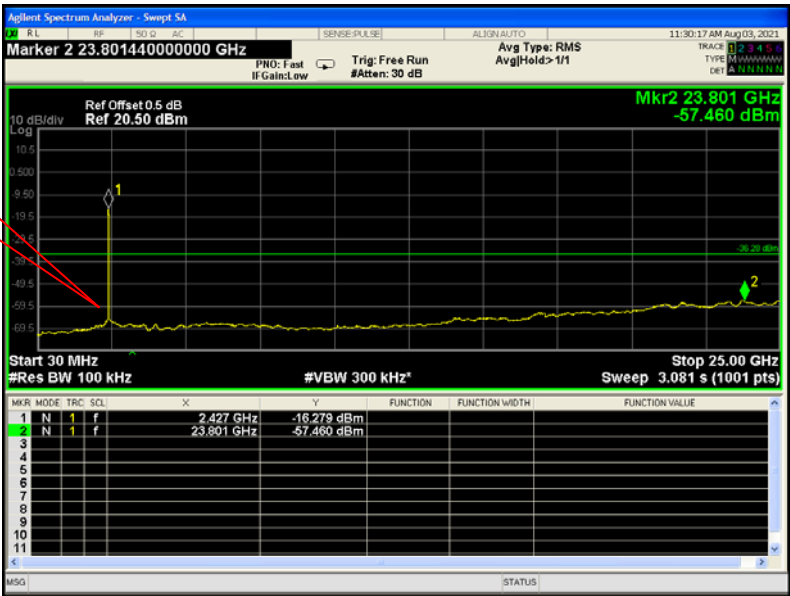
Low Channel

Fundamental



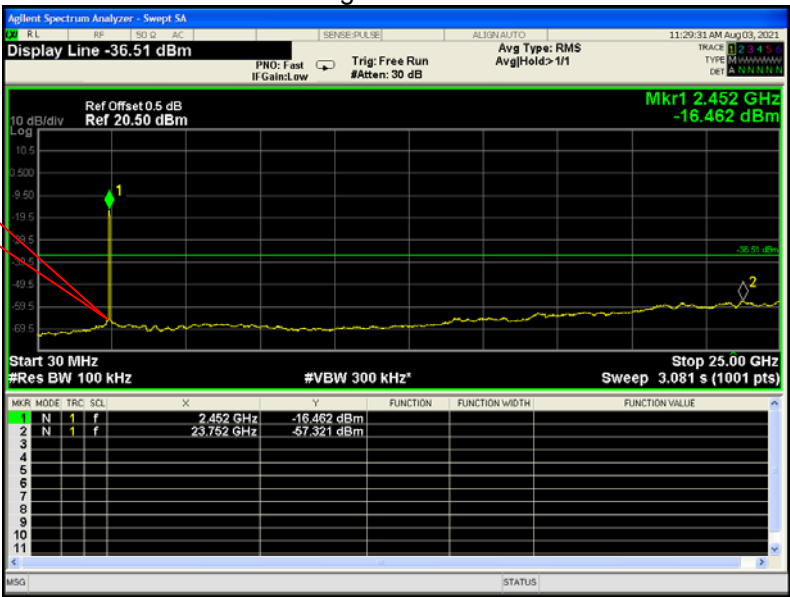
Middle Channel

Fundamental



High Channel

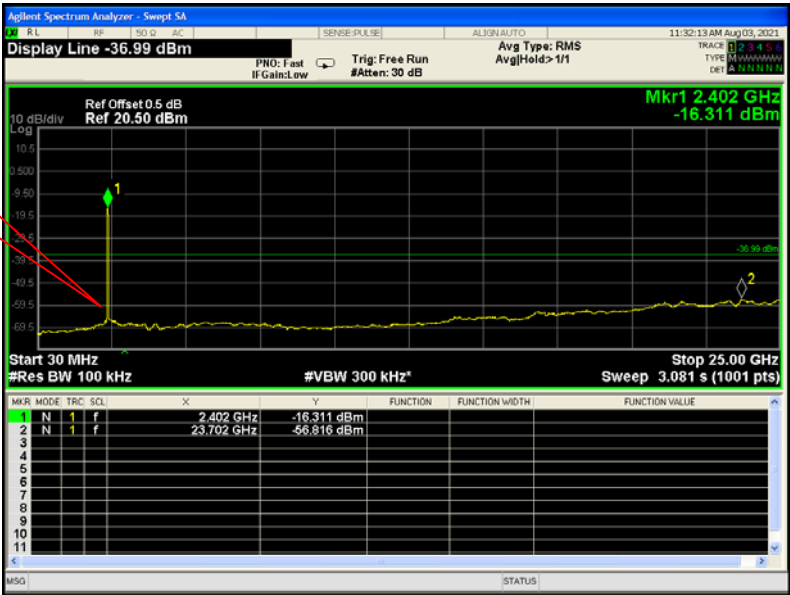
Fundamental



802.11n HT20

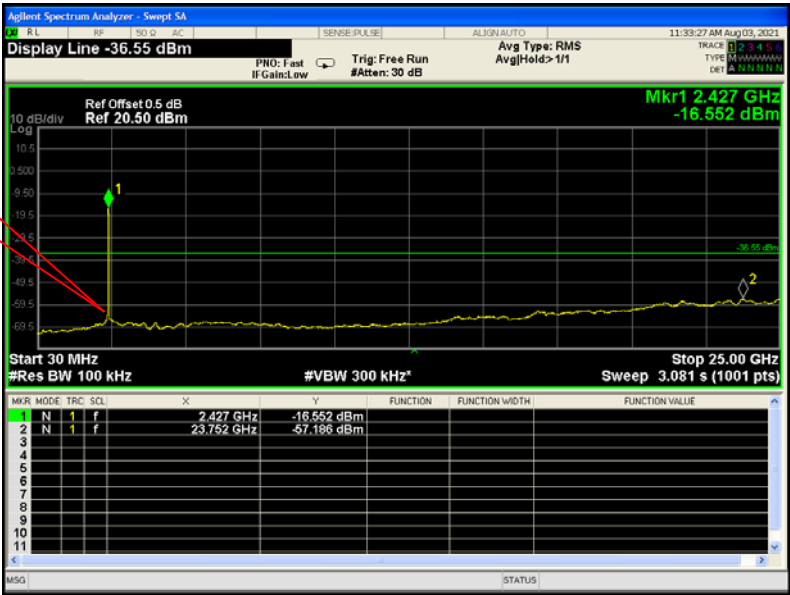
Low Channel

Fundamental



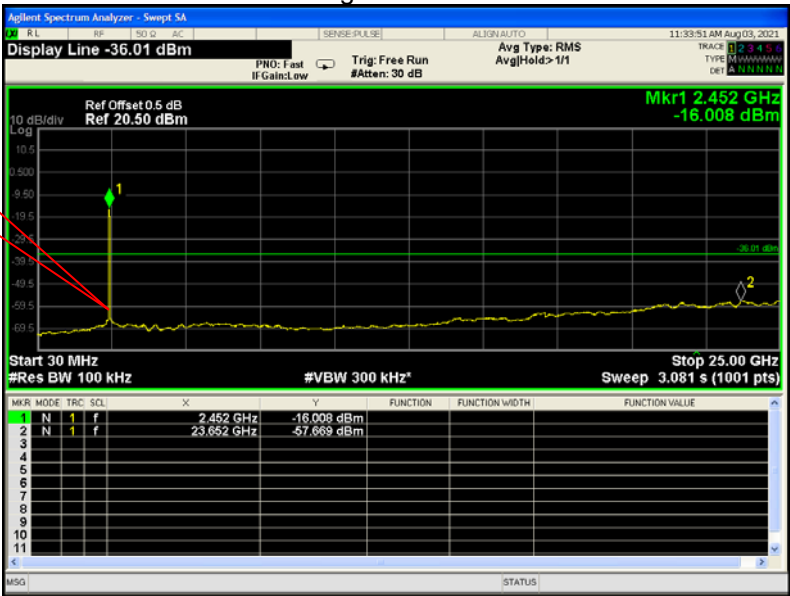
Middle Channel

Fundamental



High Channel

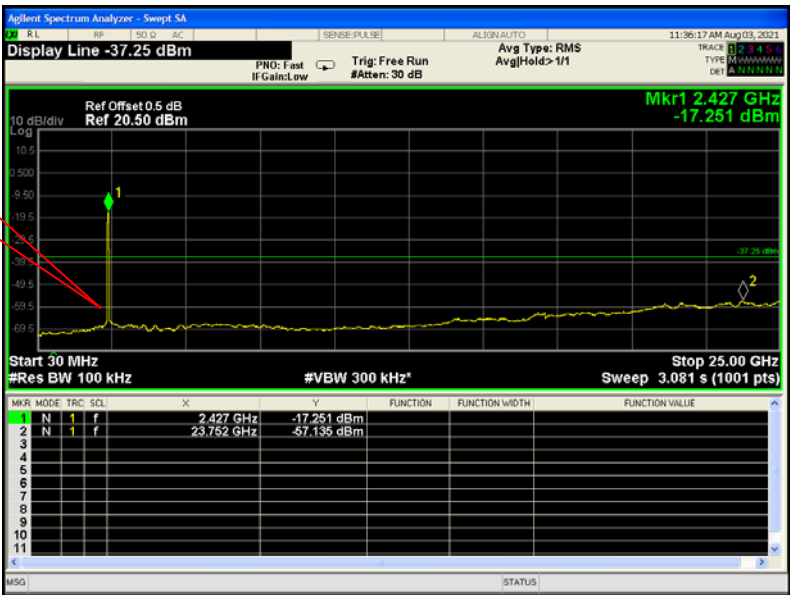
Fundamental



802.11n HT40

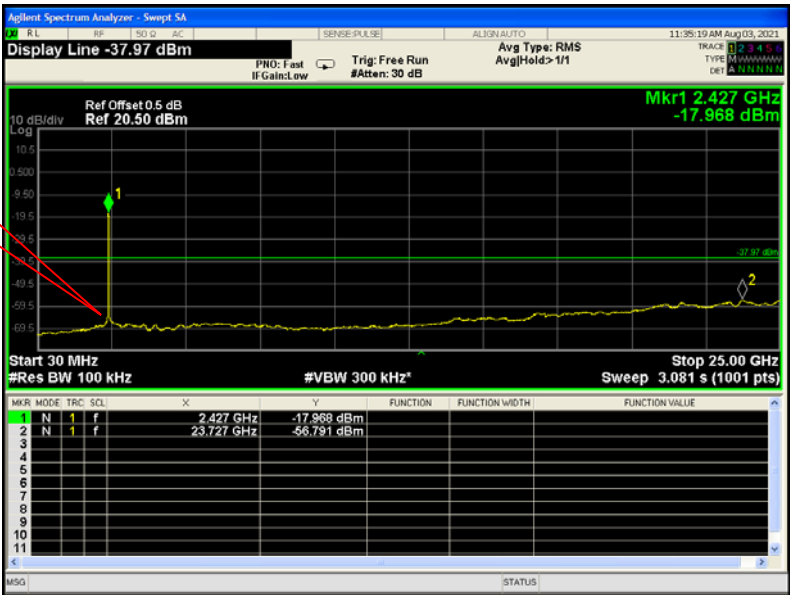
Low Channel

Fundamental



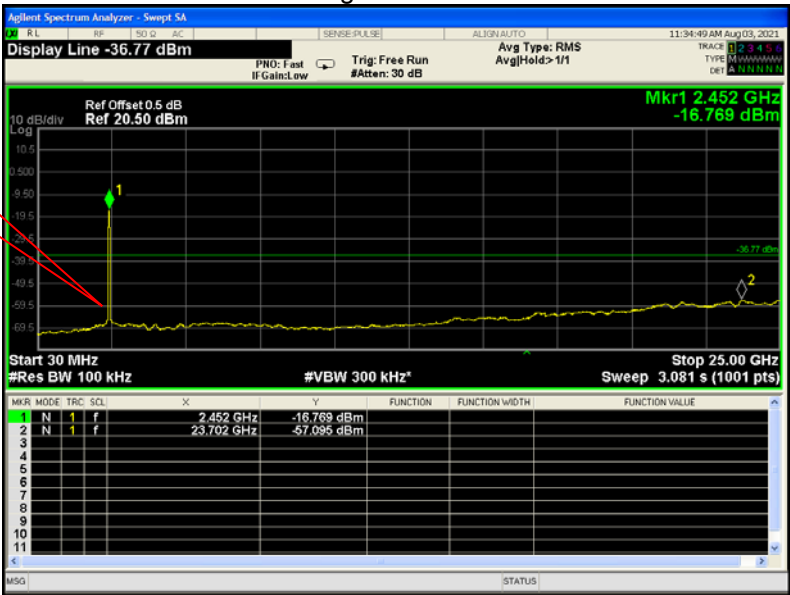
Middle Channel

Fundamental



High Channel

Fundamental



10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band 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)).

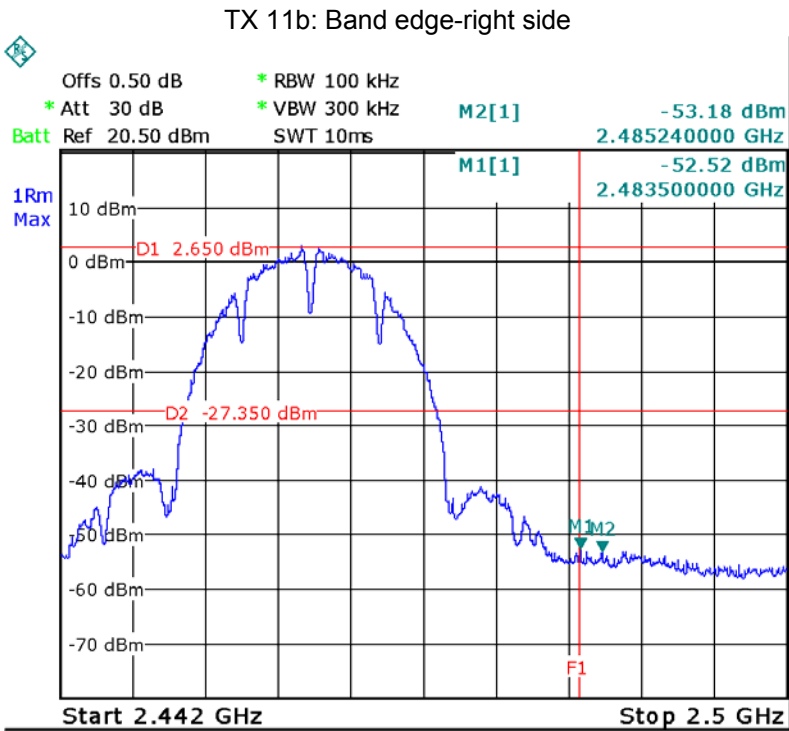
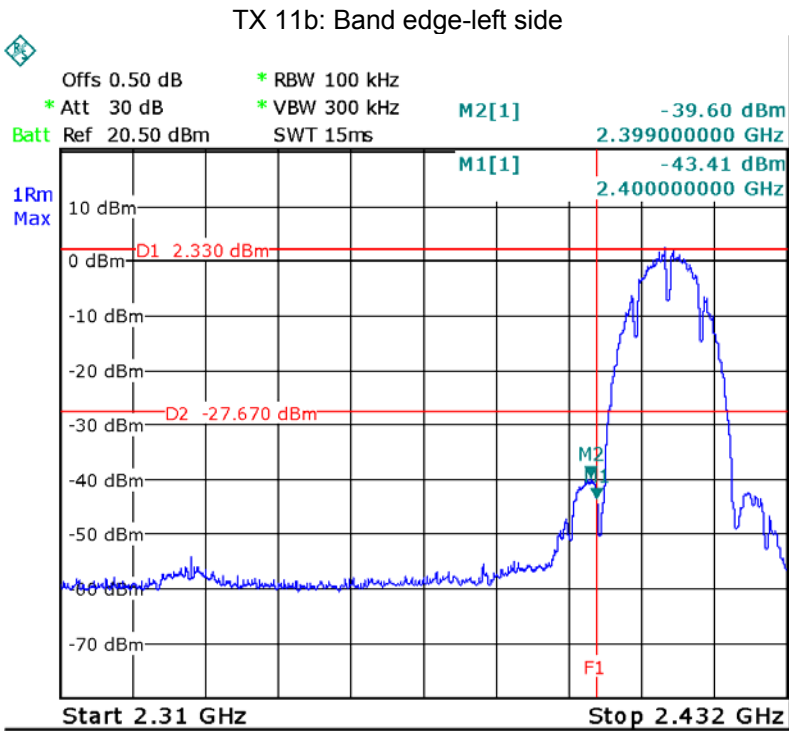
Test Mode: Transmitting

10.1 Test Produce

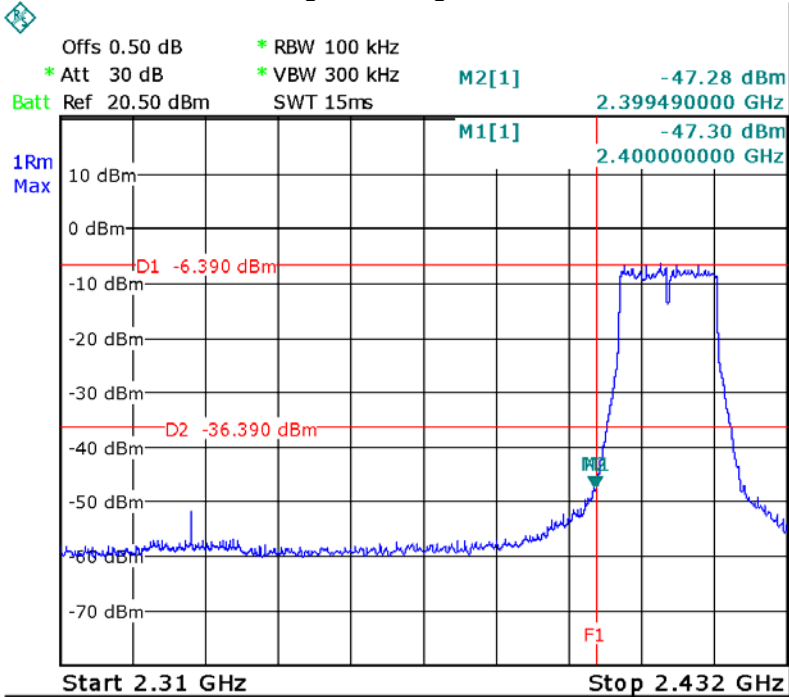
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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.

10.2 Test Result

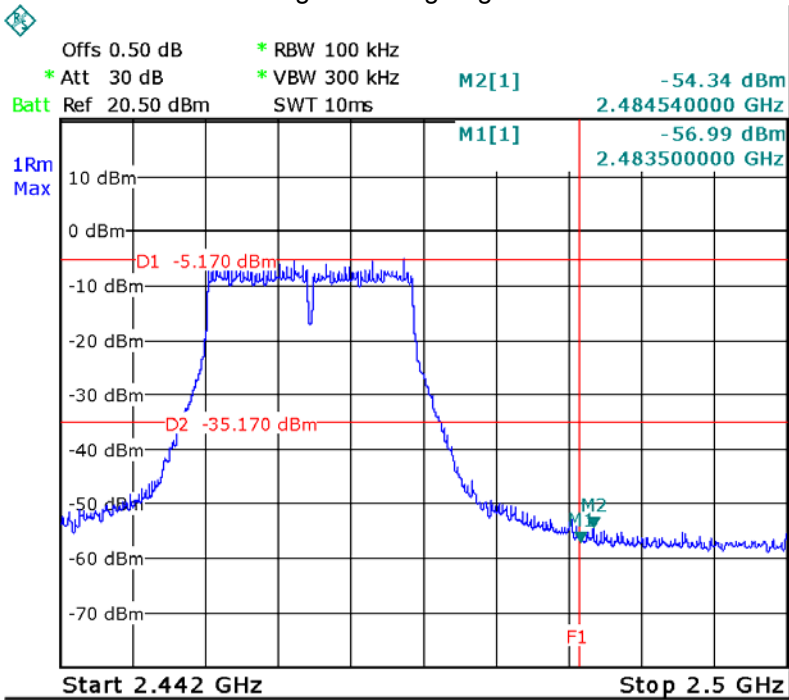
Test result plots shown as follows:

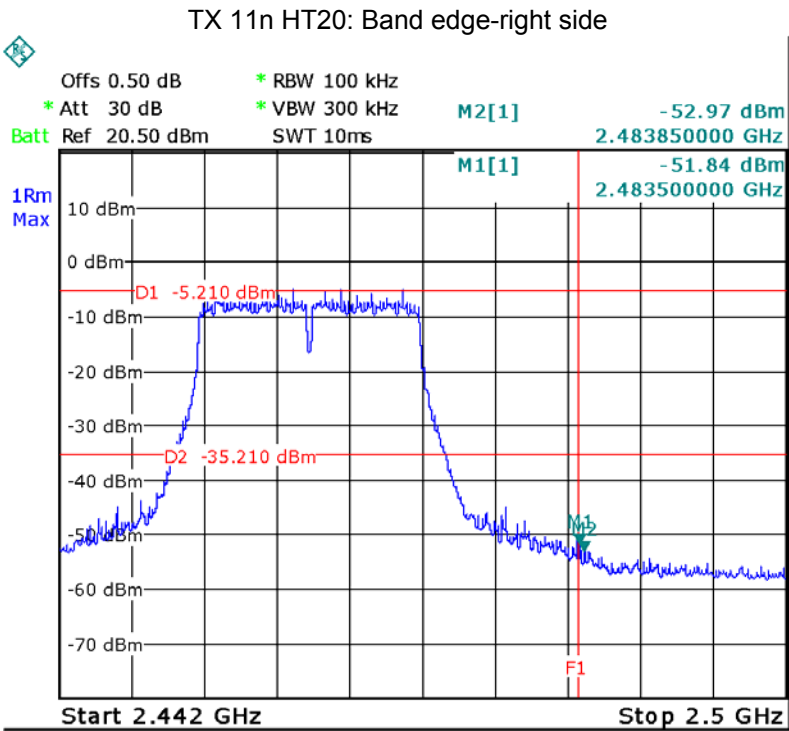
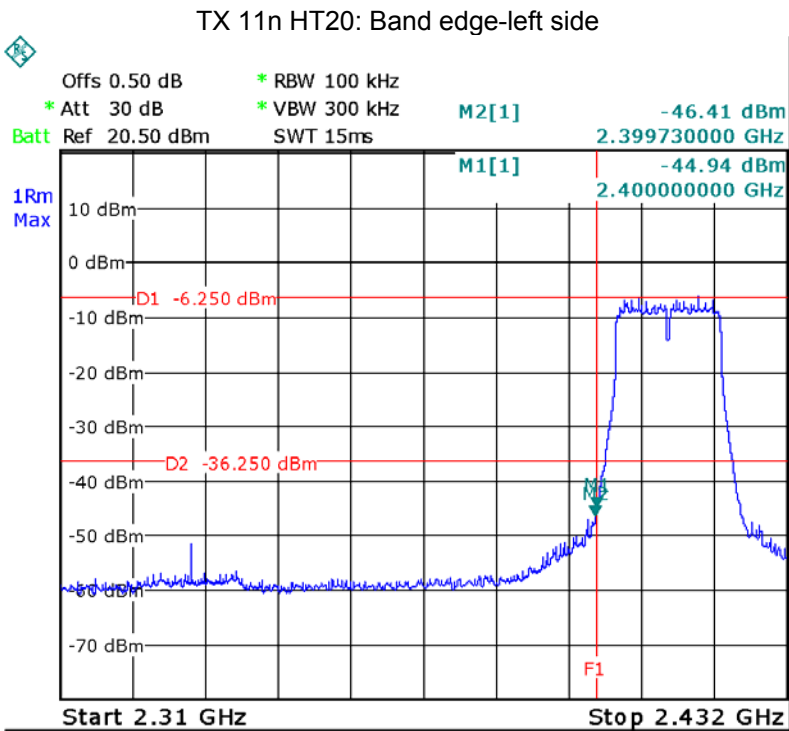


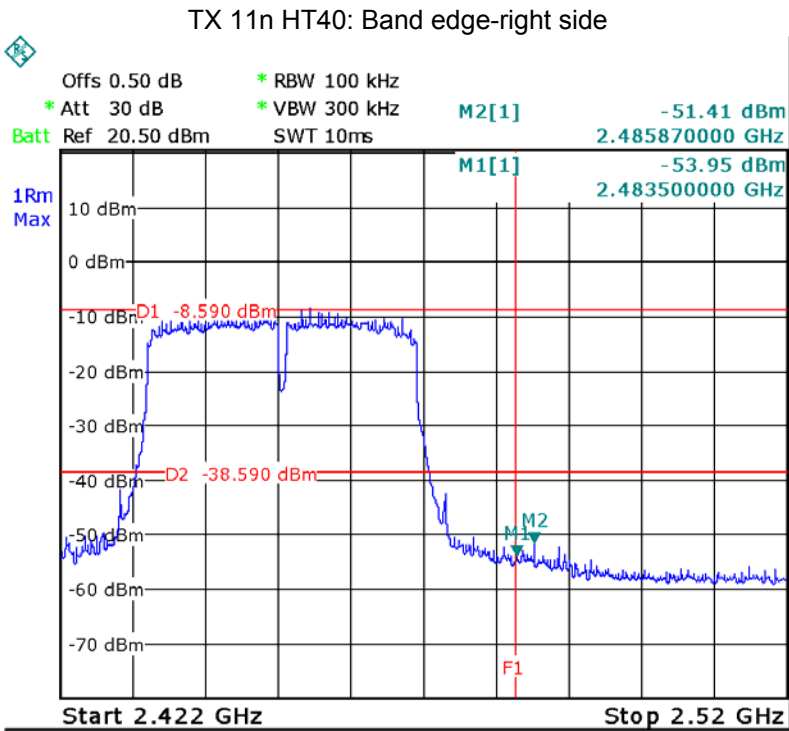
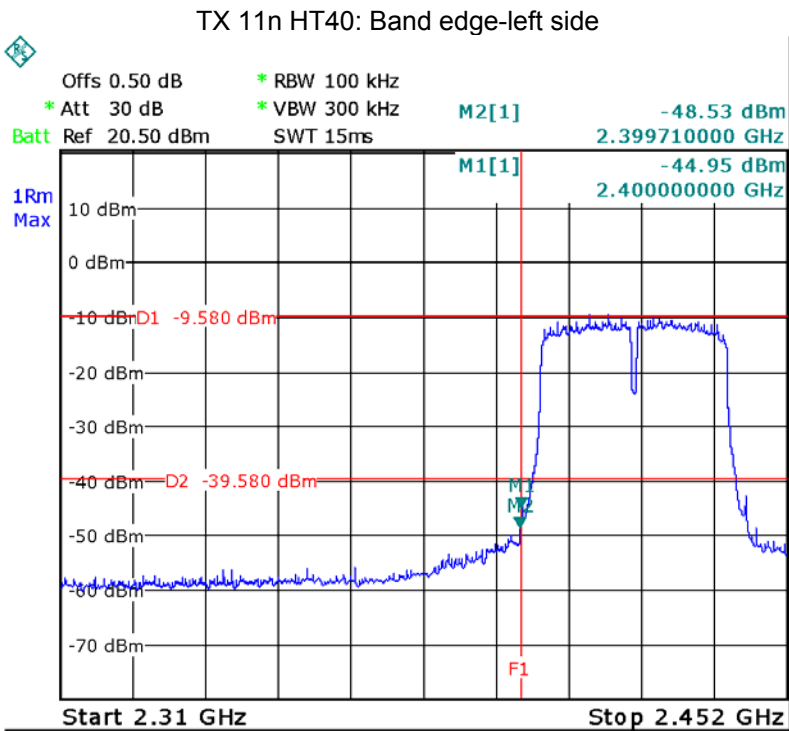
TX 11g: Band edge-left side



TX 11g: Band edge-right side







11 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

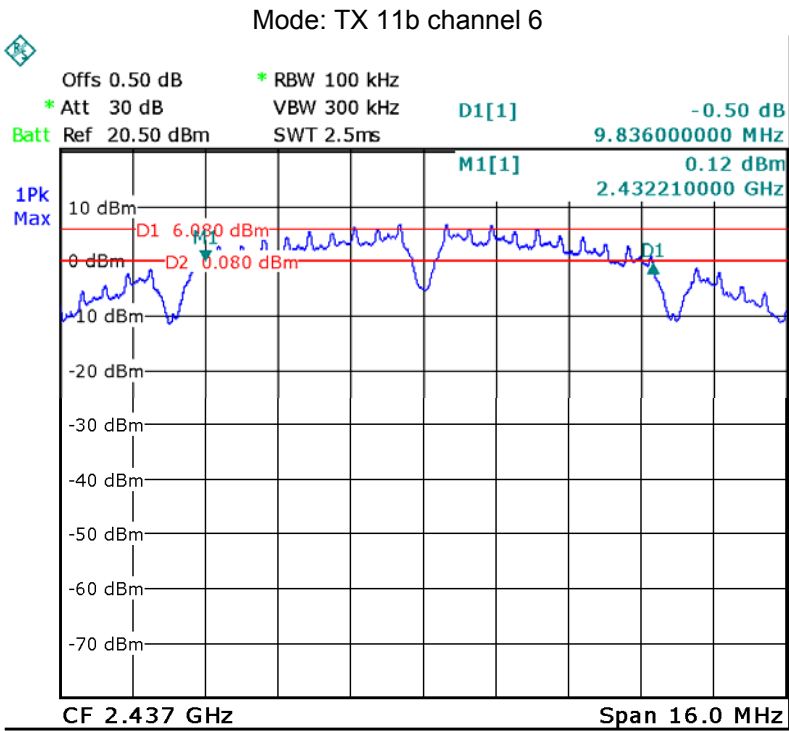
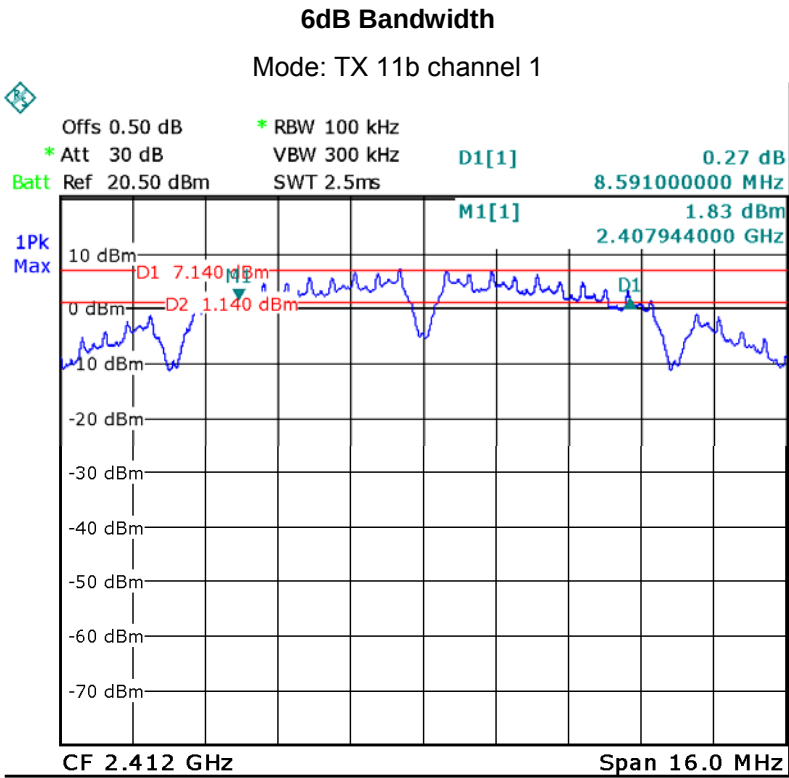
11.1 Test Procedure:

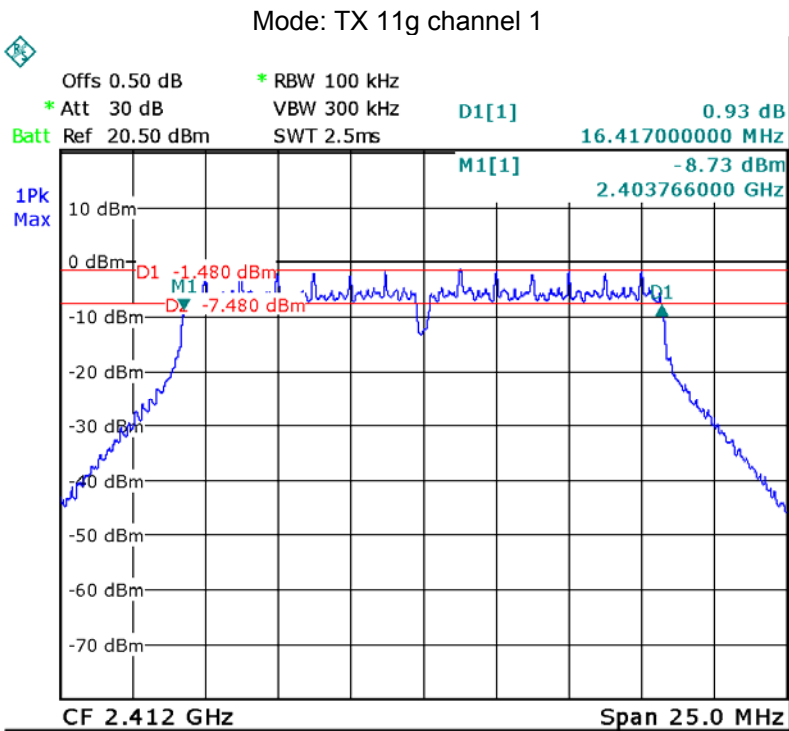
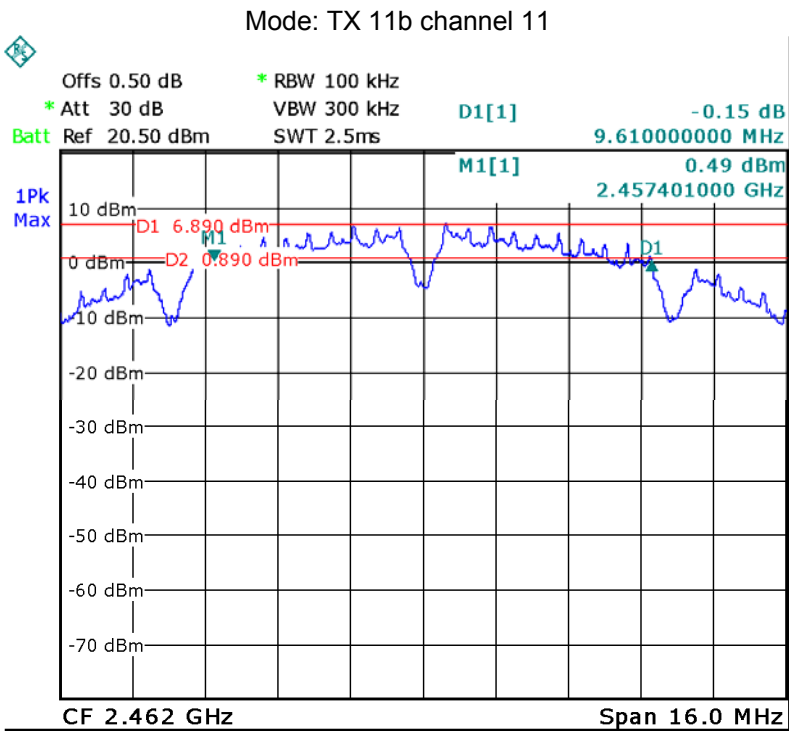
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. 6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz
99% Bandwidth Set the spectrum analyzer : RBW = 1~5% DTS OBW, VBW = 3 RBW

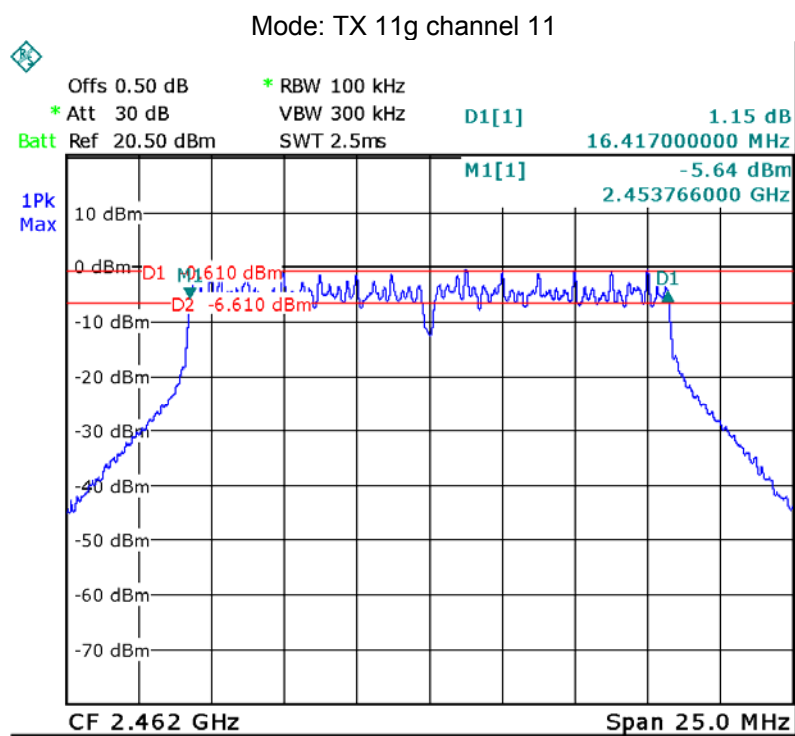
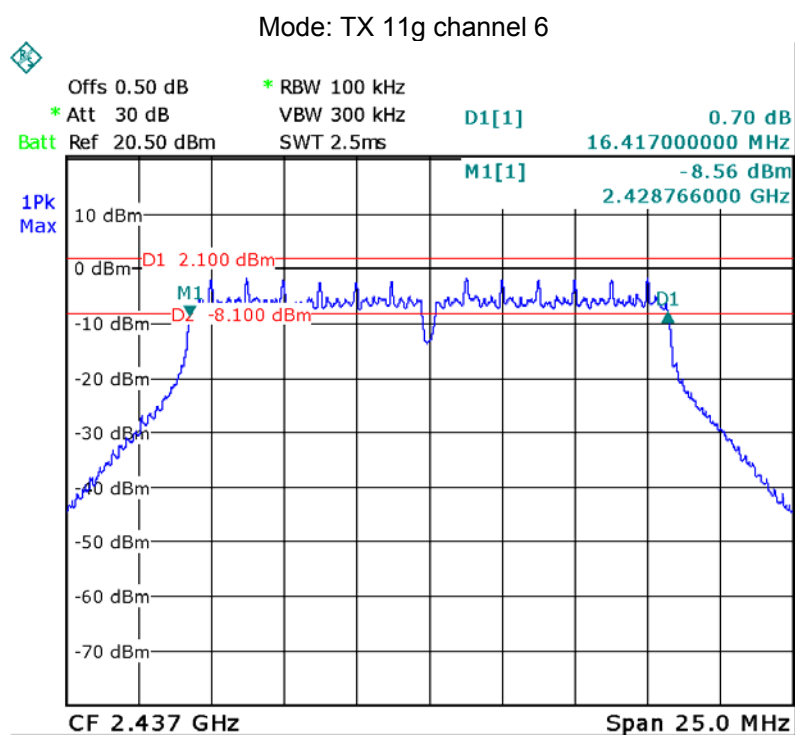
11.2 Test Result:

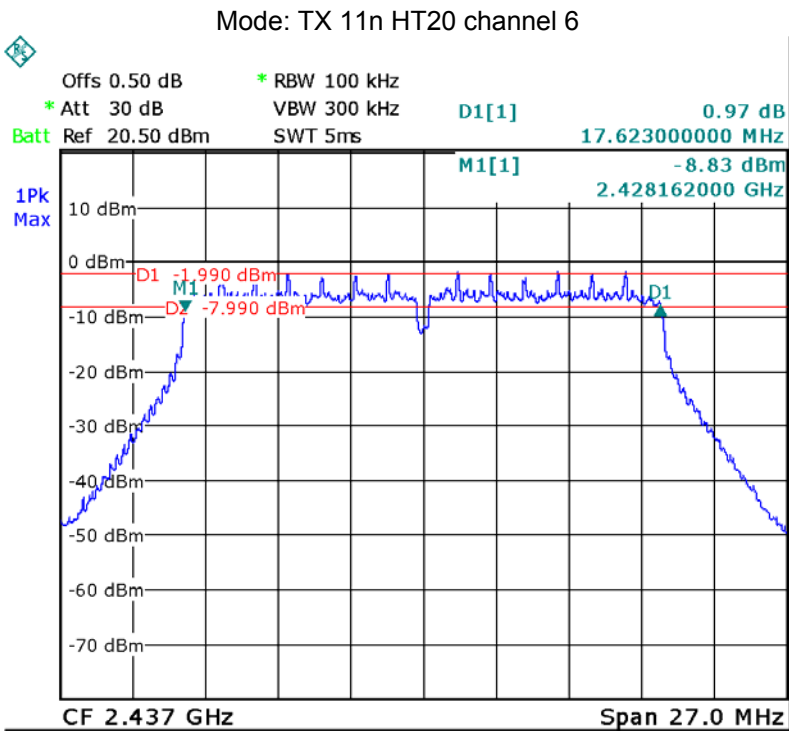
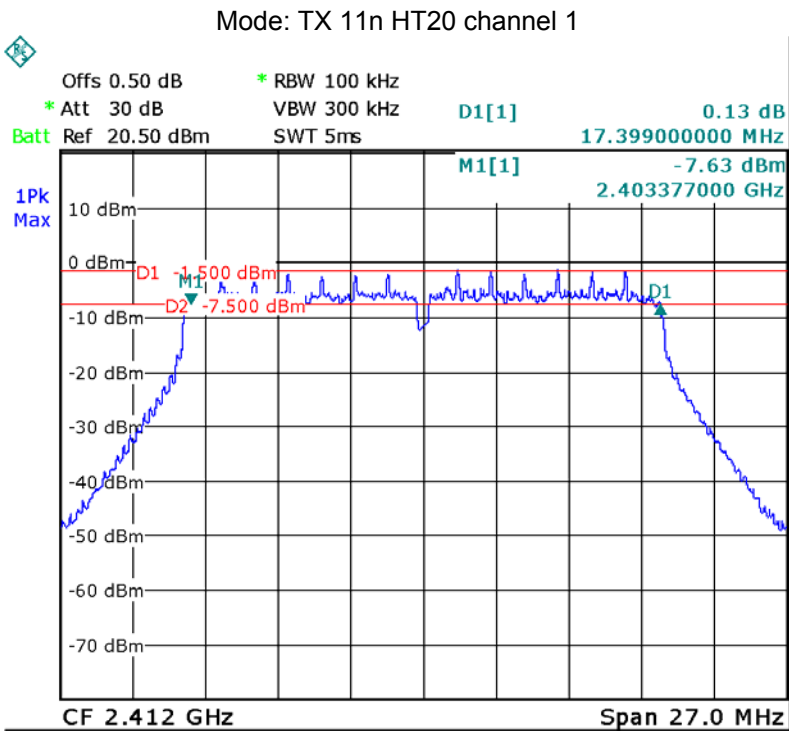
Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
TX 11b	Channel 1	8.915	14.435
	Channel 6	9.836	14.435
	Channel 11	9.610	14.435
TX 11g	Channel 1	16.417	16.617
	Channel 6	16.417	16.717
	Channel 11	16.417	16.717
TX 11n HT20	Channel 1	17.399	17.946
	Channel 6	16.623	17.946
	Channel 11	17.515	17.892
TX 11n HT40	Channel 3	35.570	36.337
	Channel 6	35.720	36.227
	Channel 9	35.100	36.228

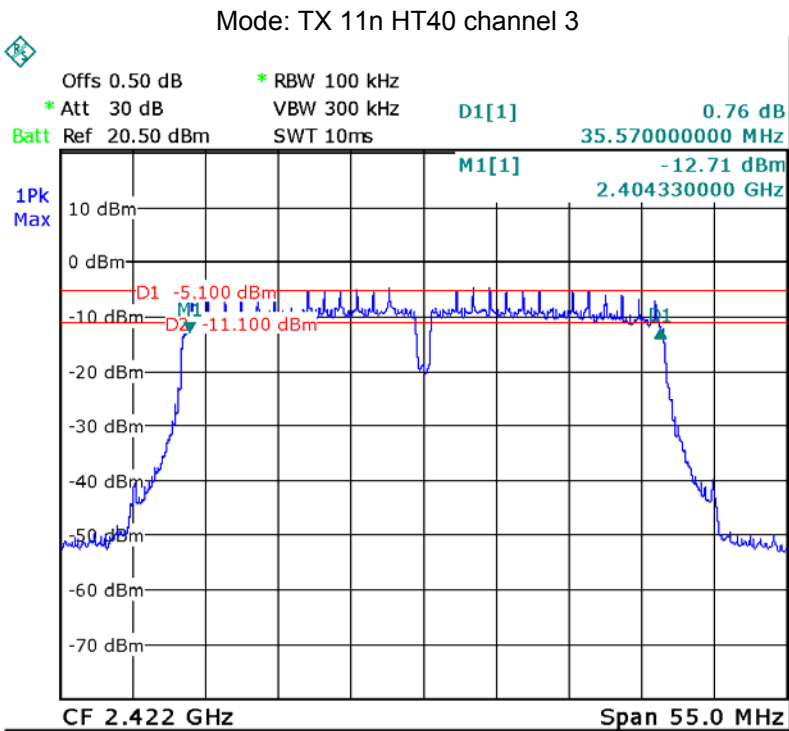
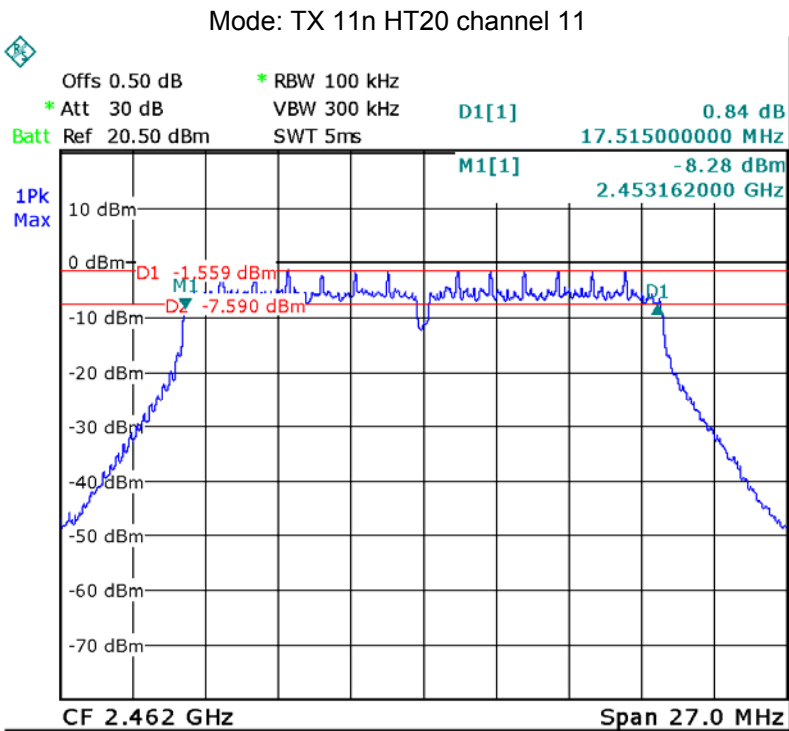
Test result plot:

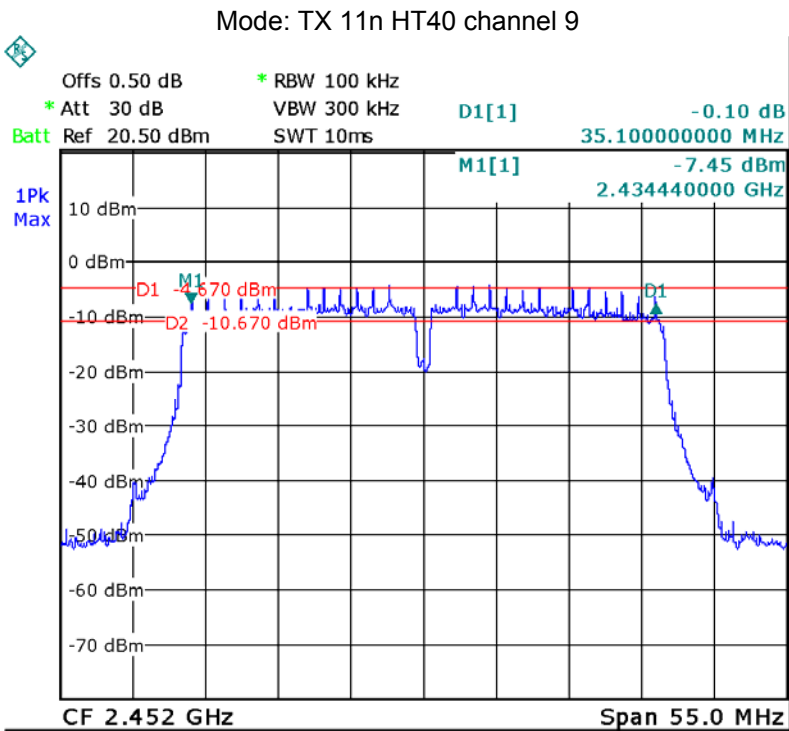
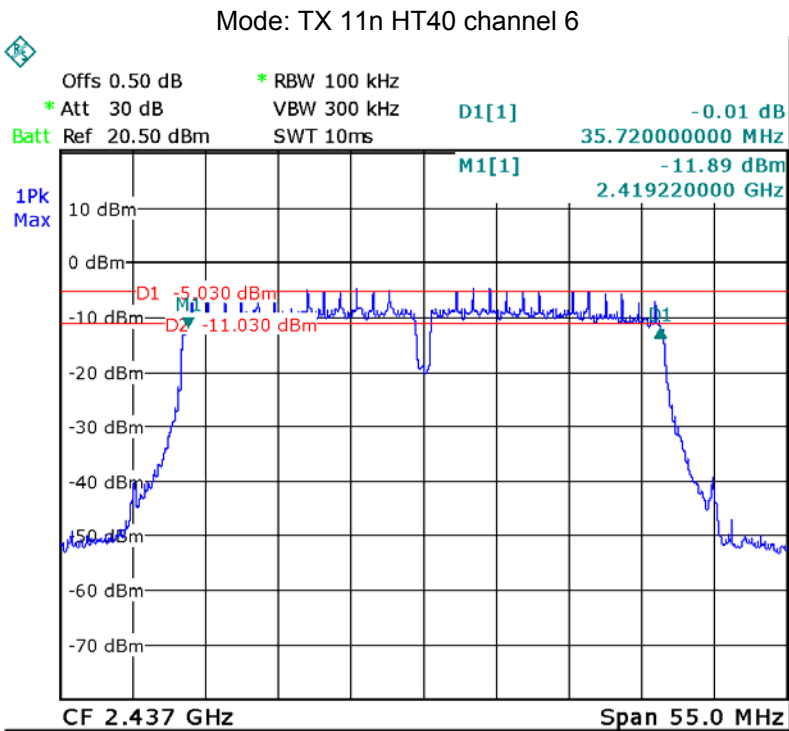






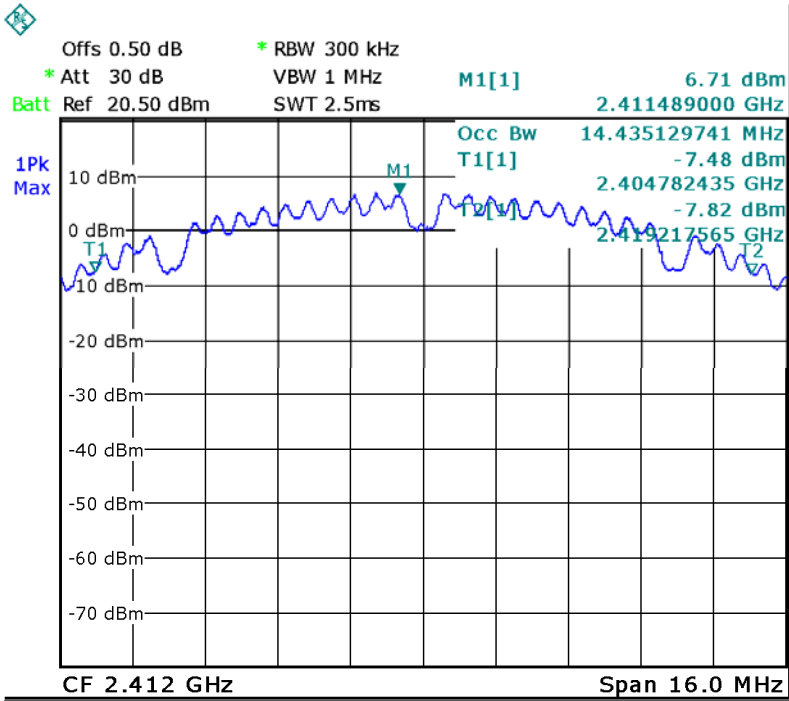




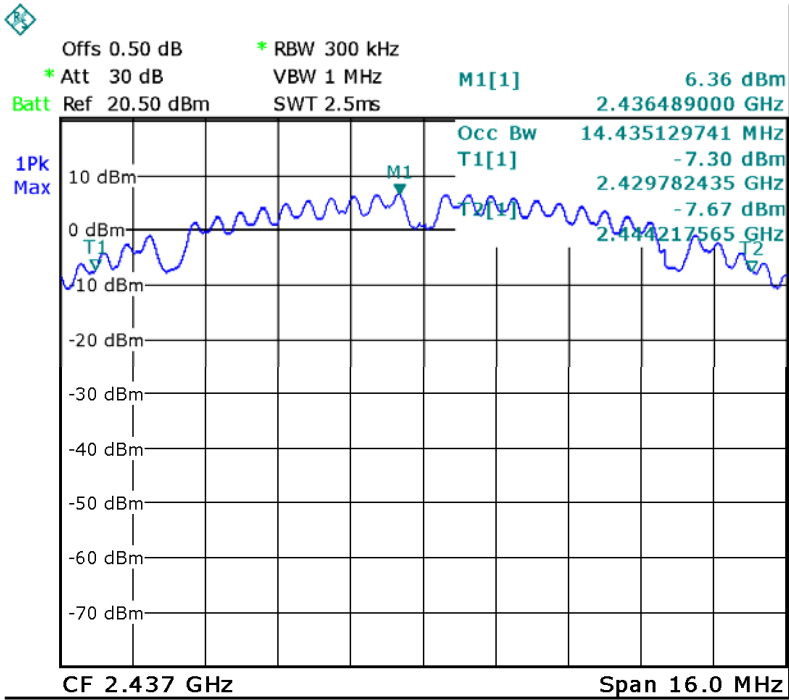


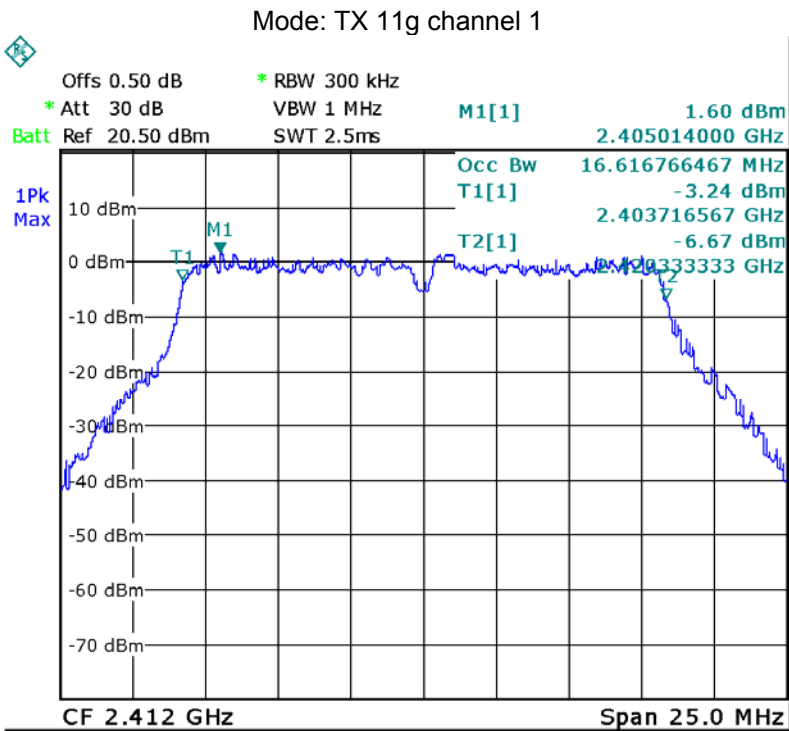
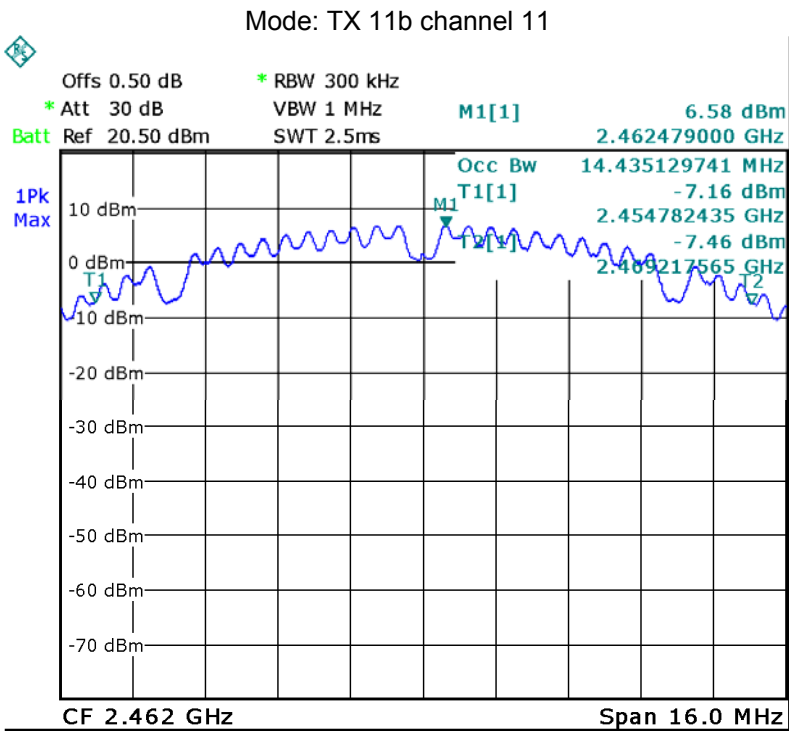
99% Bandwidth

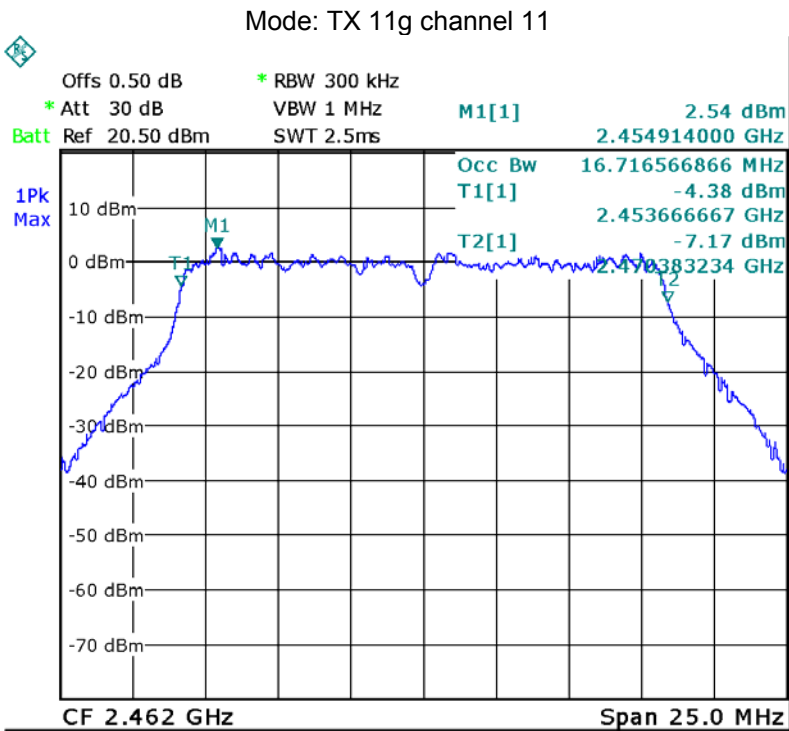
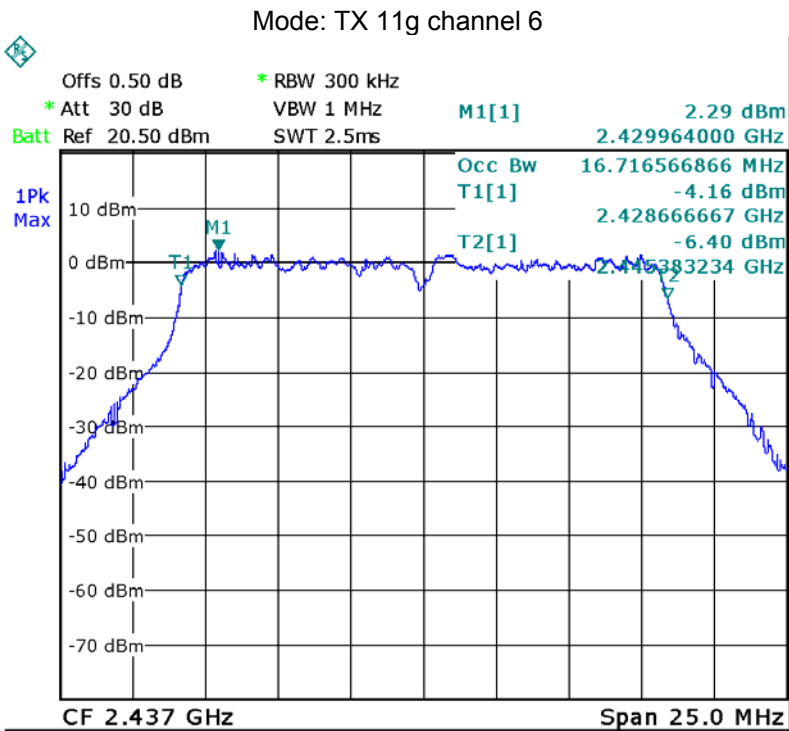
Mode: TX 11b channel 1

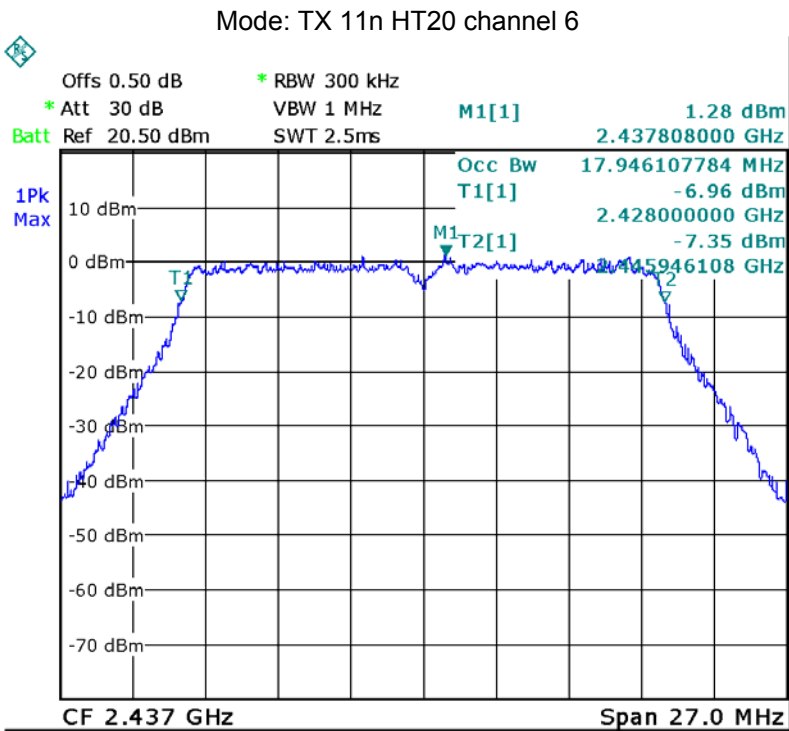
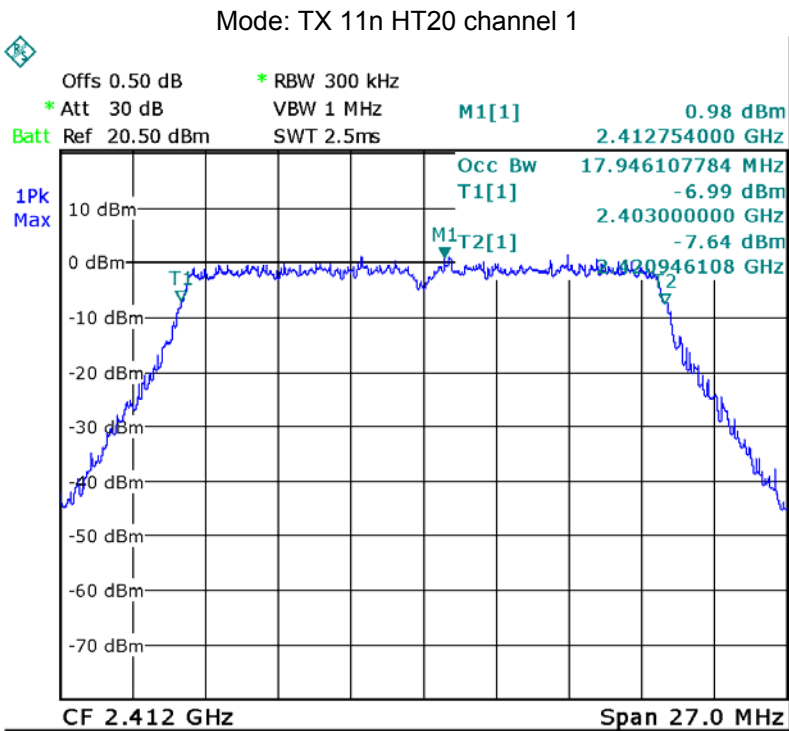


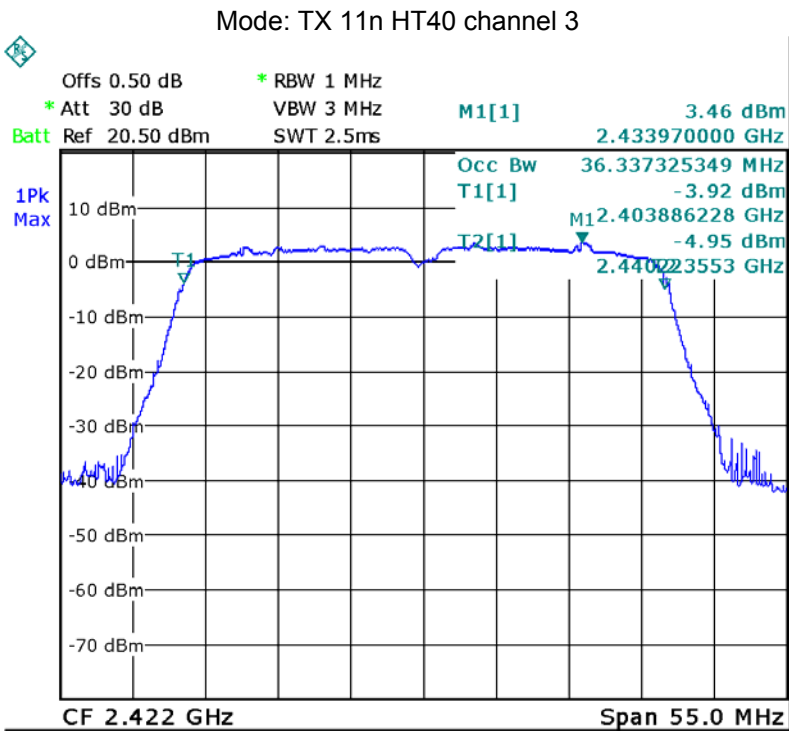
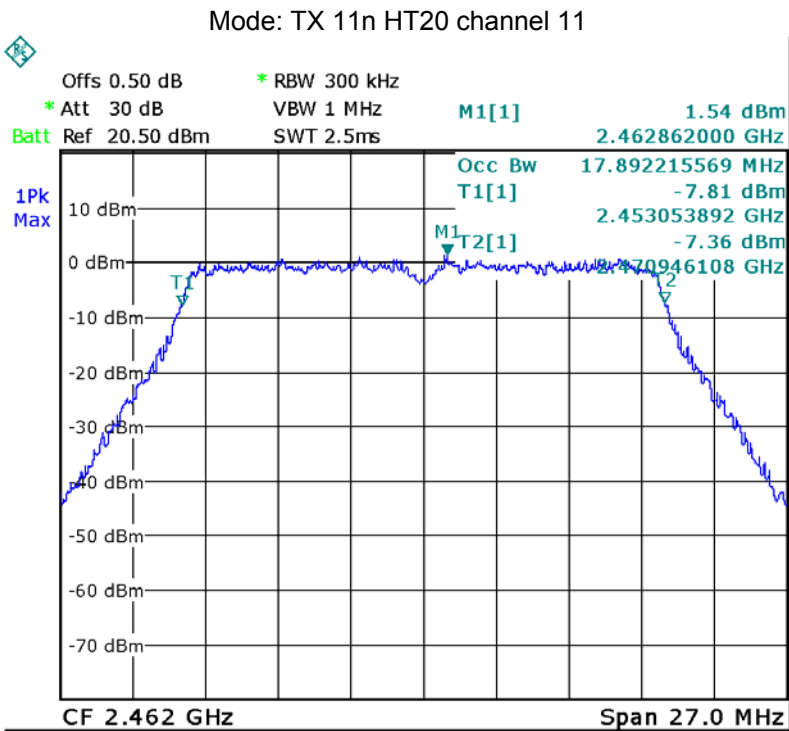
Mode: TX 11b channel 6

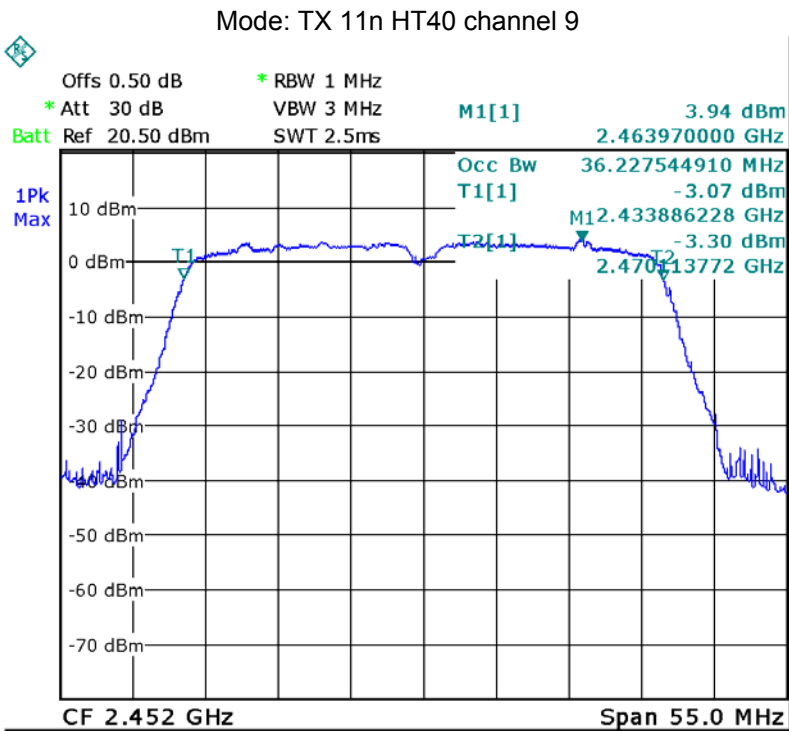
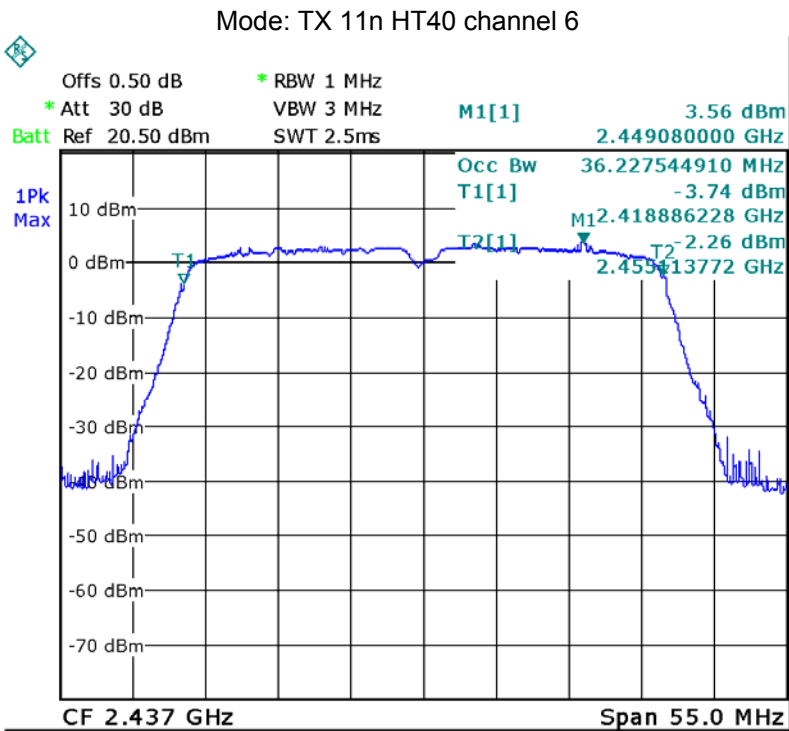












12 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

12.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019

section 8.3.1.1 (For BLE)

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 8.3.1.2 (For WIFI)

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

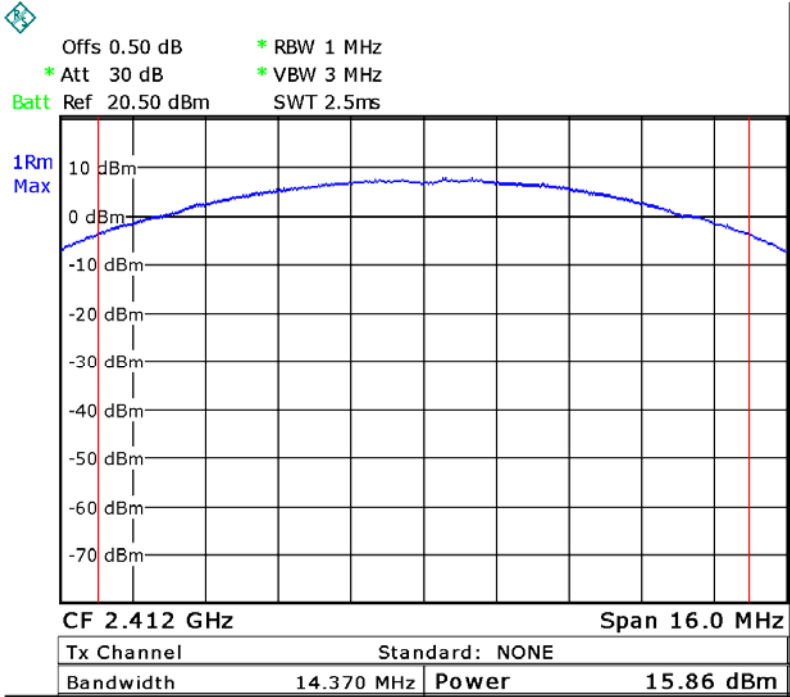
- a) Set the $RBW = 1\%$ to 5% of the OBW, not to exceed 1 MHz..
- b) Set the $VBW \geq 3 \times RBW$
- c) Set the span $\geq 1.5 \times OBW$.
- d) Detector = RMS.
- e) Sweep time = auto couple.
- f) trigger = free run..
- g) Number of points in sweep $\geq [2 \times \text{span} / RBW]$. (This gives bin-to-bin spacing $\geq RBW / 2$, so that narrowband signals are not lost between frequency bins.)
- h) Trace average at least 100 traces in power averaging (rms) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum..

12.2 Test Result:

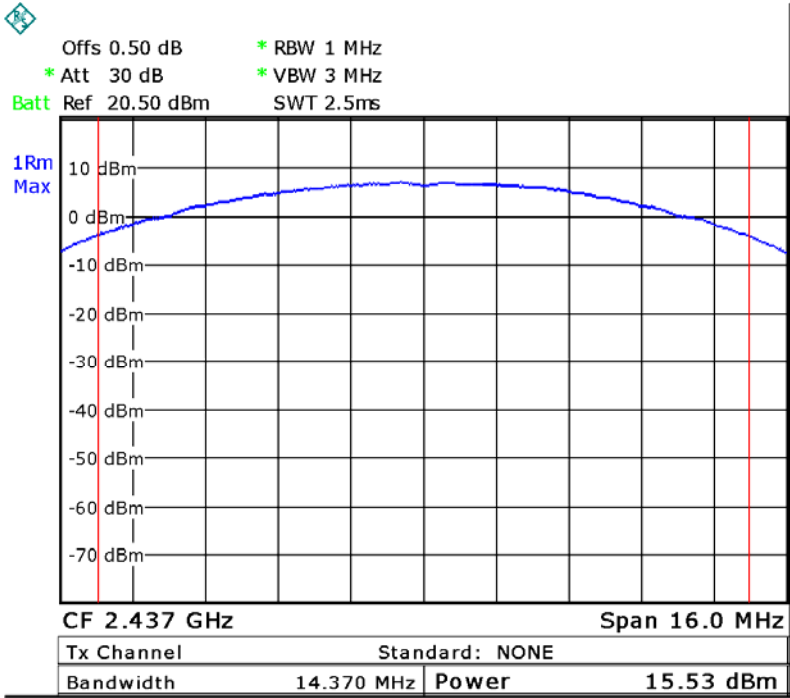
Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
TX 11b	Low-2412	15.86	1W/30dBm
	Middle-2437	15.53	1W/30dBm
	High-2462	15.74	1W/30dBm
TX 11g	Low-2412	11.47	1W/30dBm
	Middle-2437	11.42	1W/30dBm
	High-2462	11.45	1W/30dBm
TX 11n HT20	Low-2412	11.53	1W/30dBm
	Middle-2437	11.44	1W/30dBm
	High-2462	11.38	1W/30dBm
TX 11n HT40	Low-2422	11.28	1W/30dBm
	Middle-2437	11.19	1W/30dBm
	High-2452	11.20	1W/30dBm

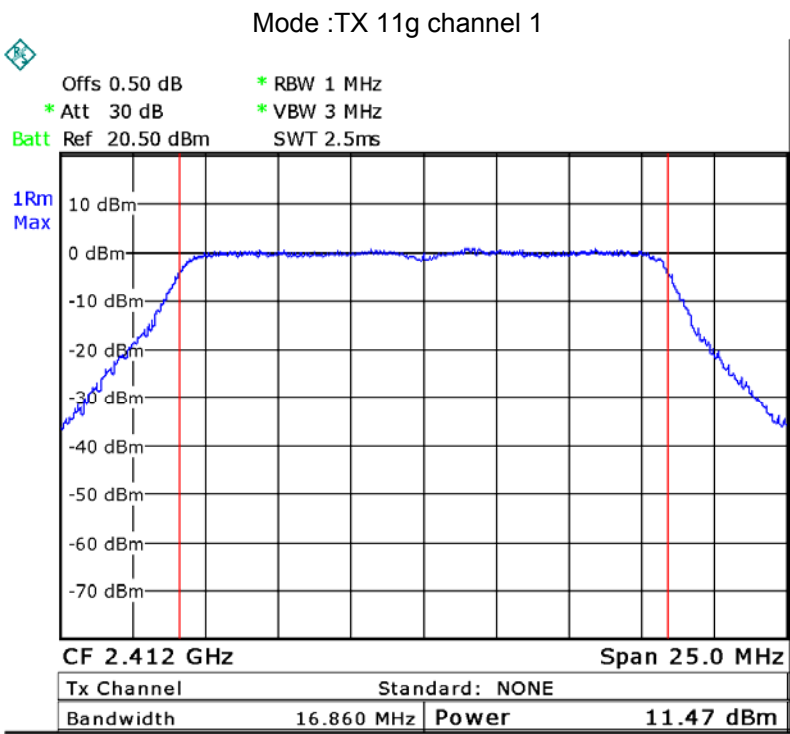
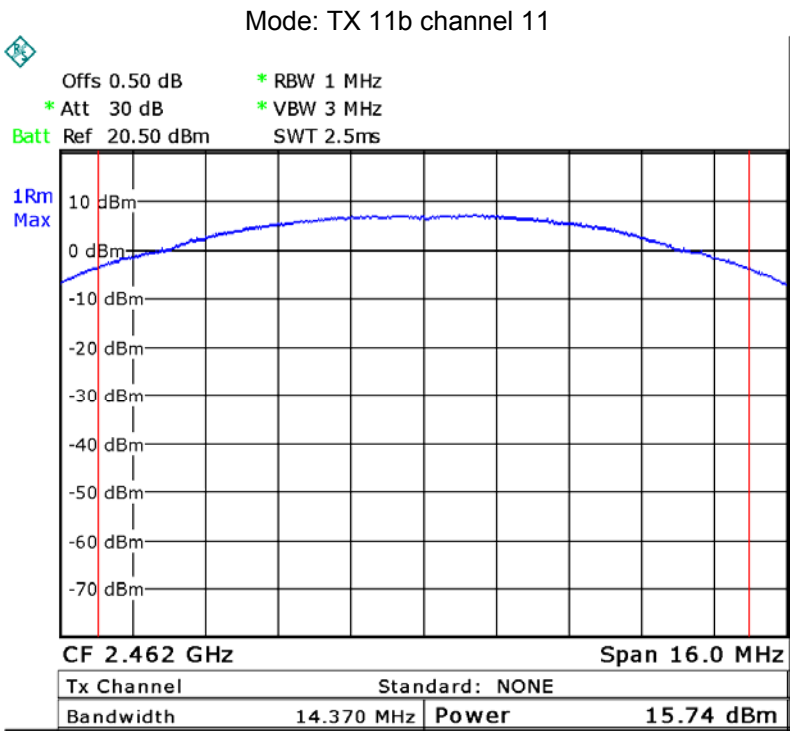
Test Plot

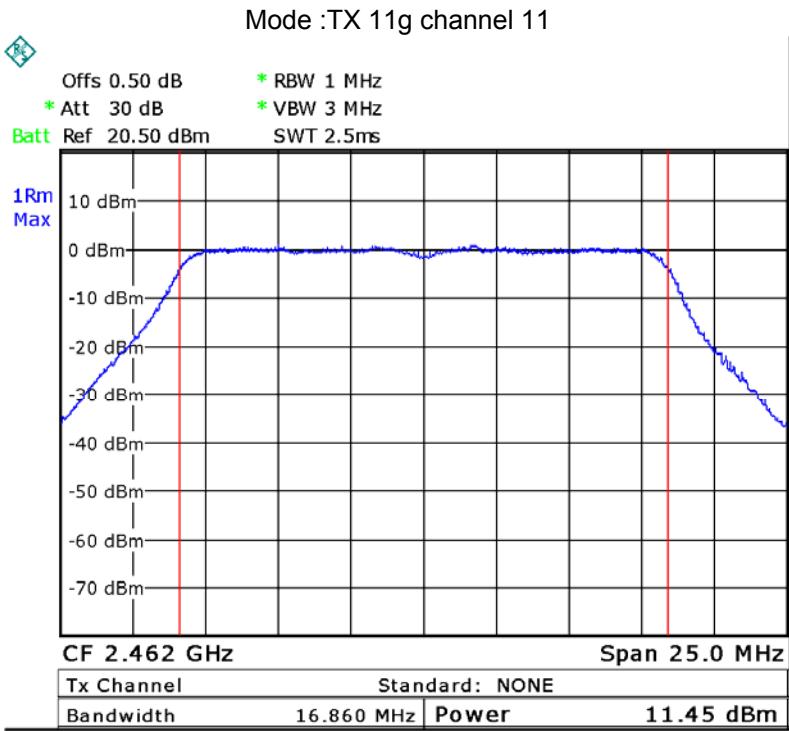
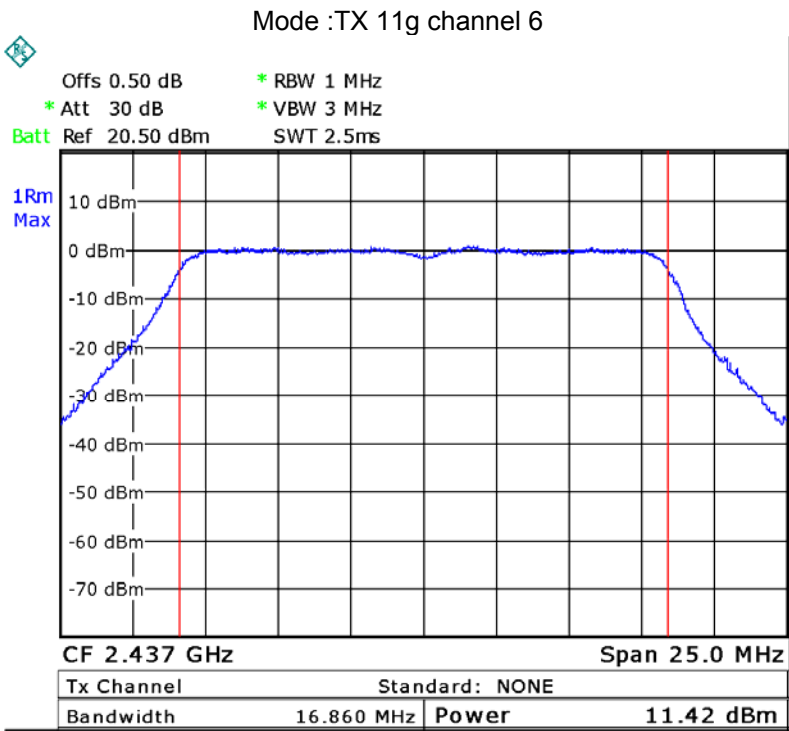
Mode: TX 11b channel 1

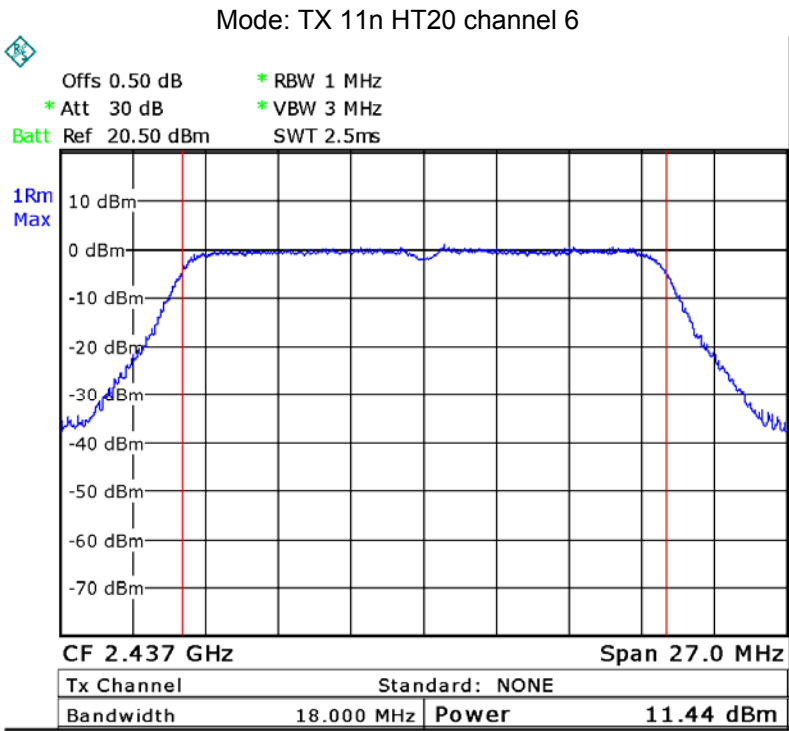
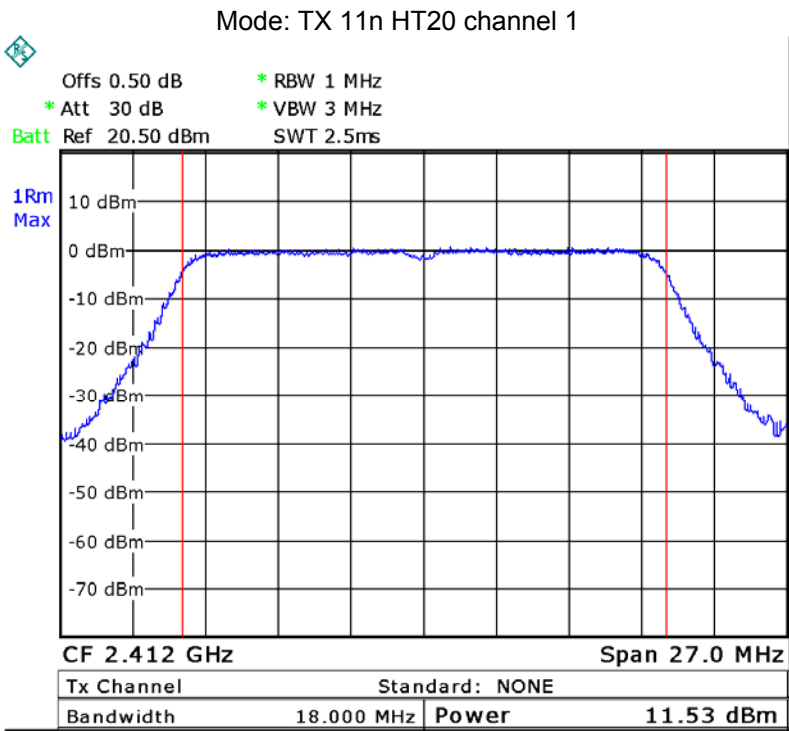


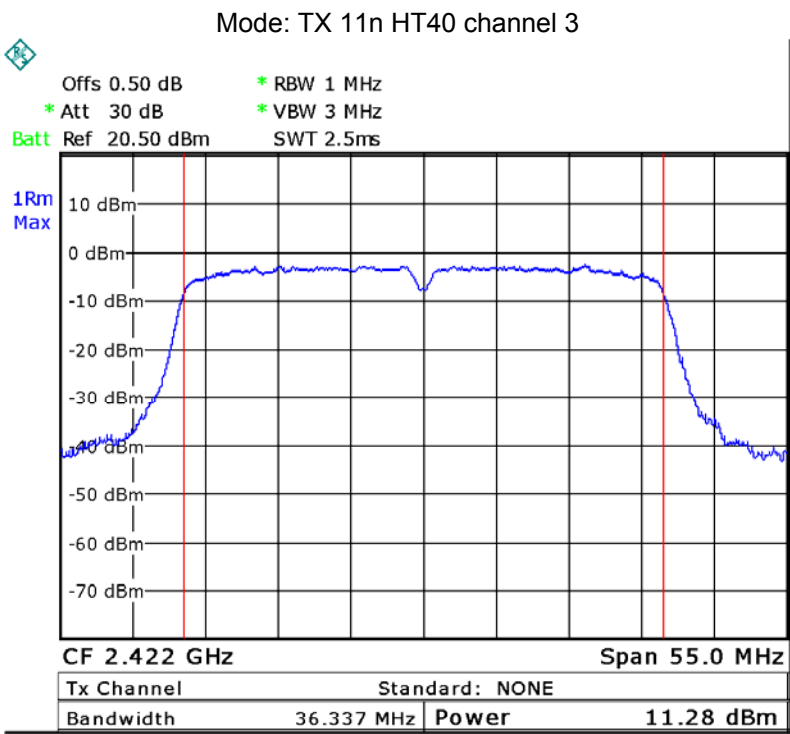
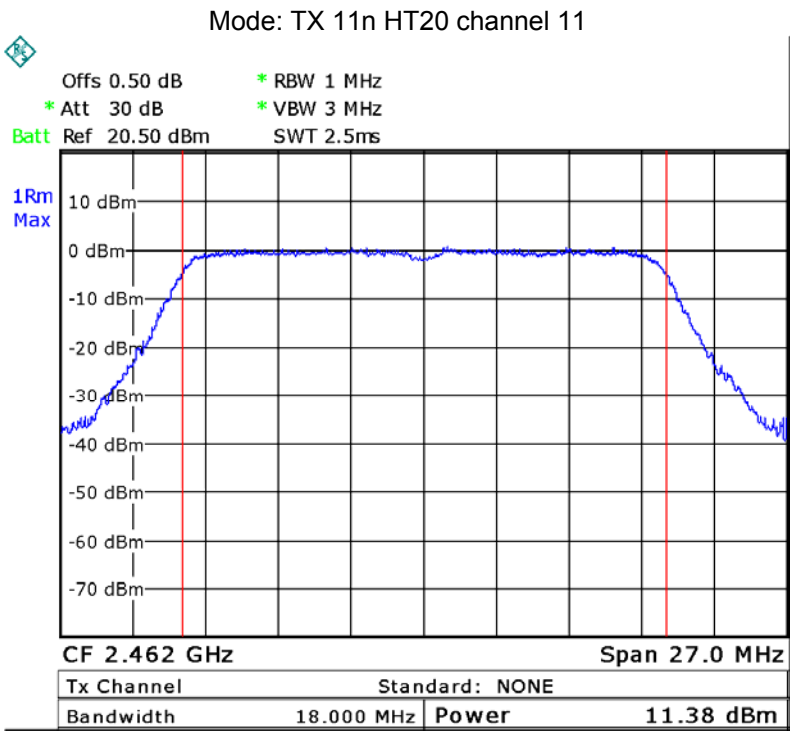
Mode: TX 11b channel 6

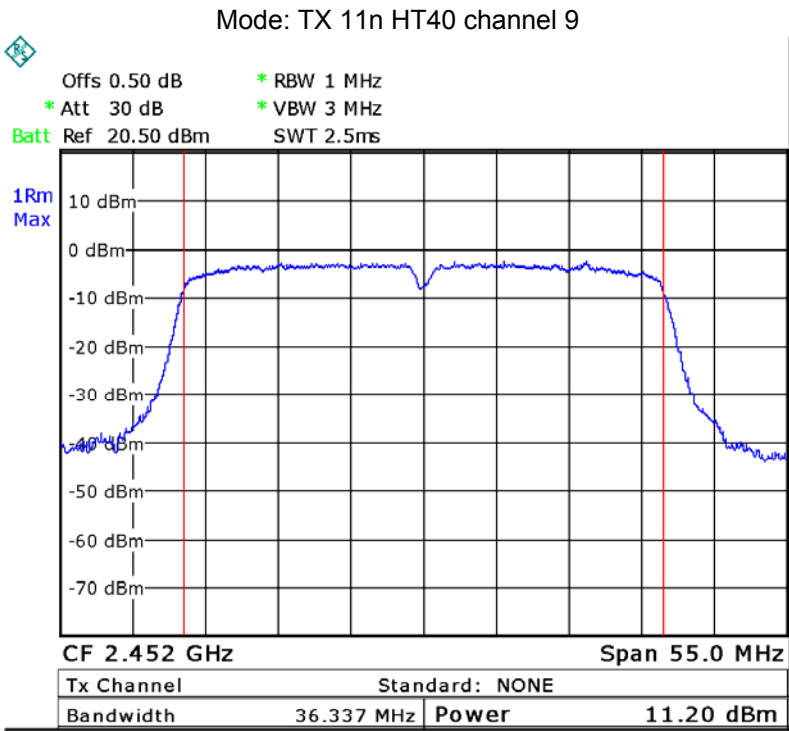
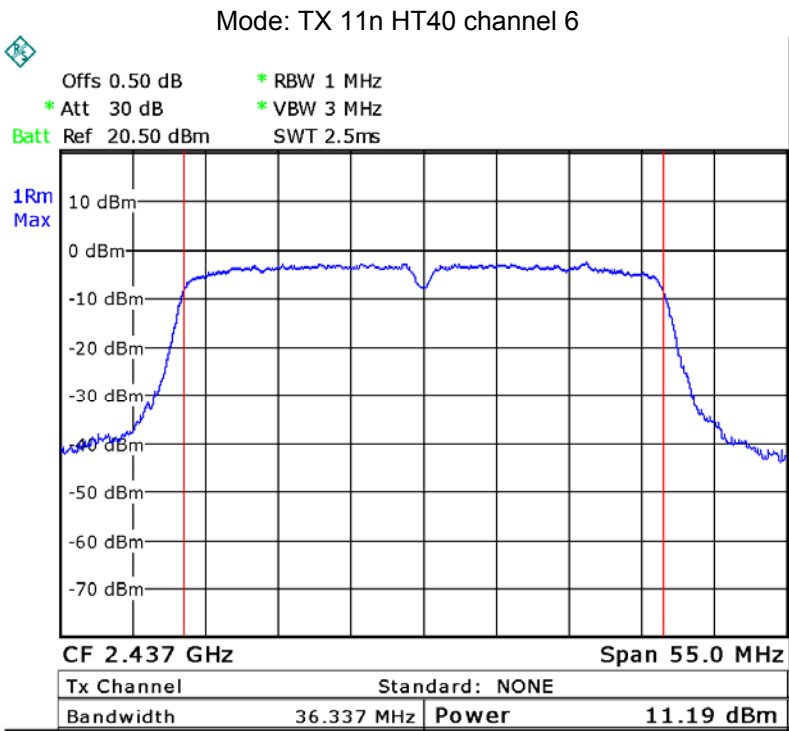












13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

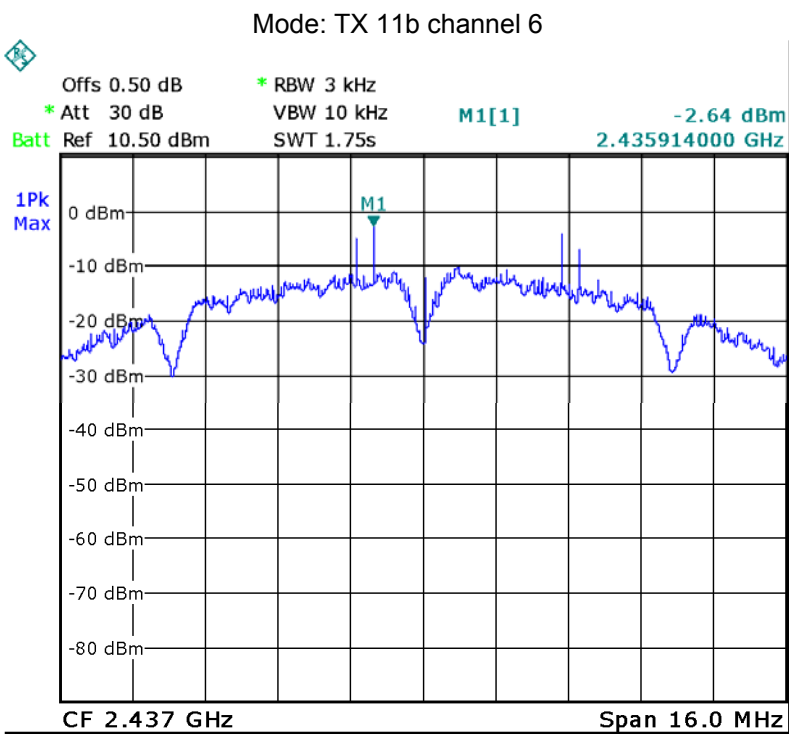
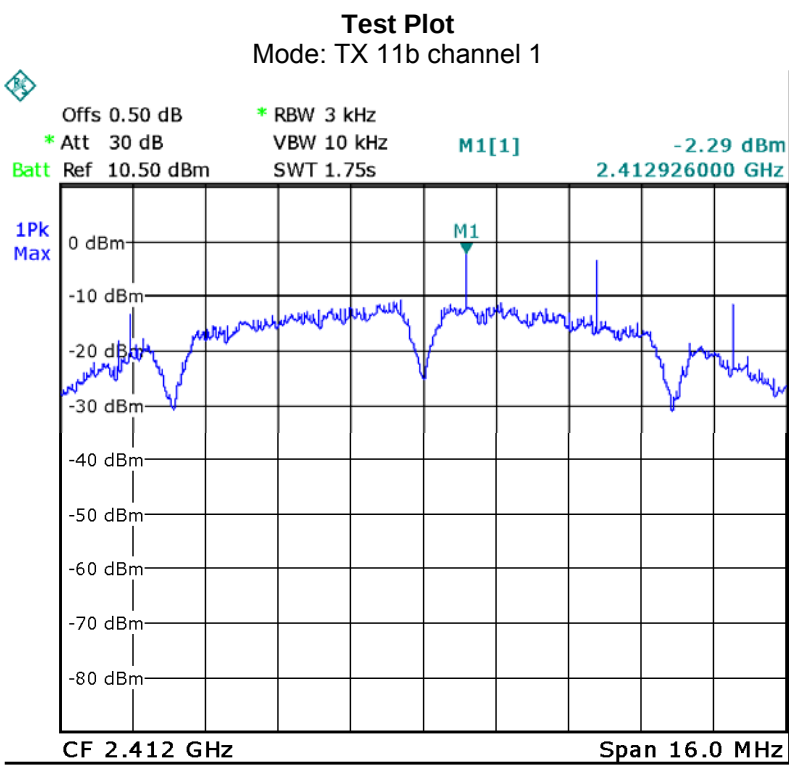
13.1 Test Procedure:

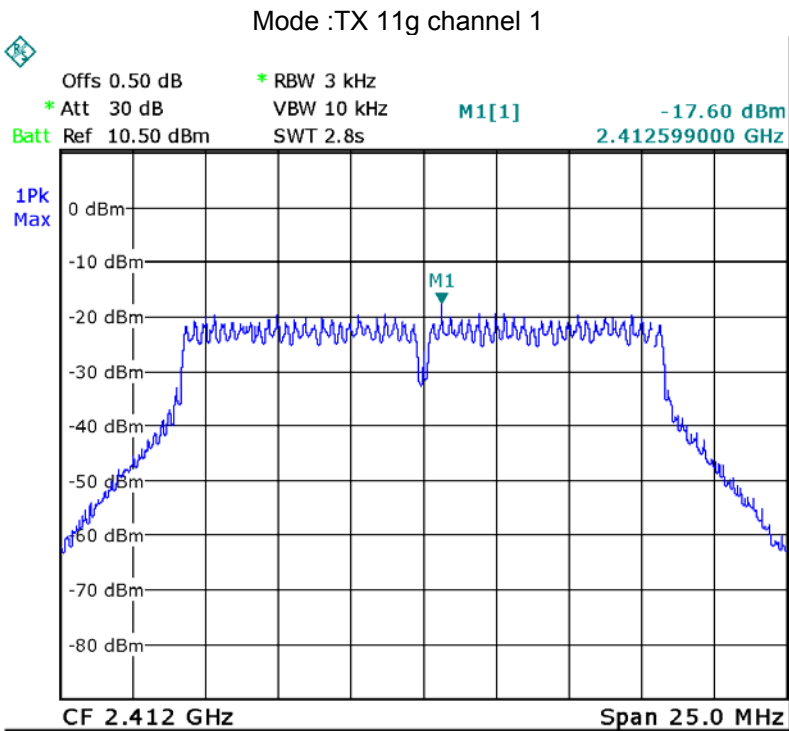
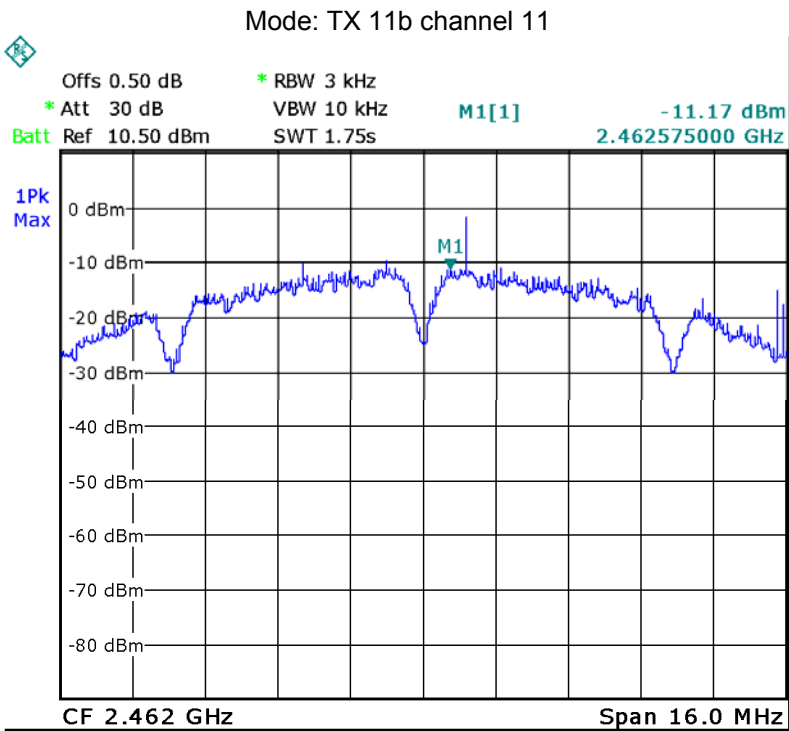
KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

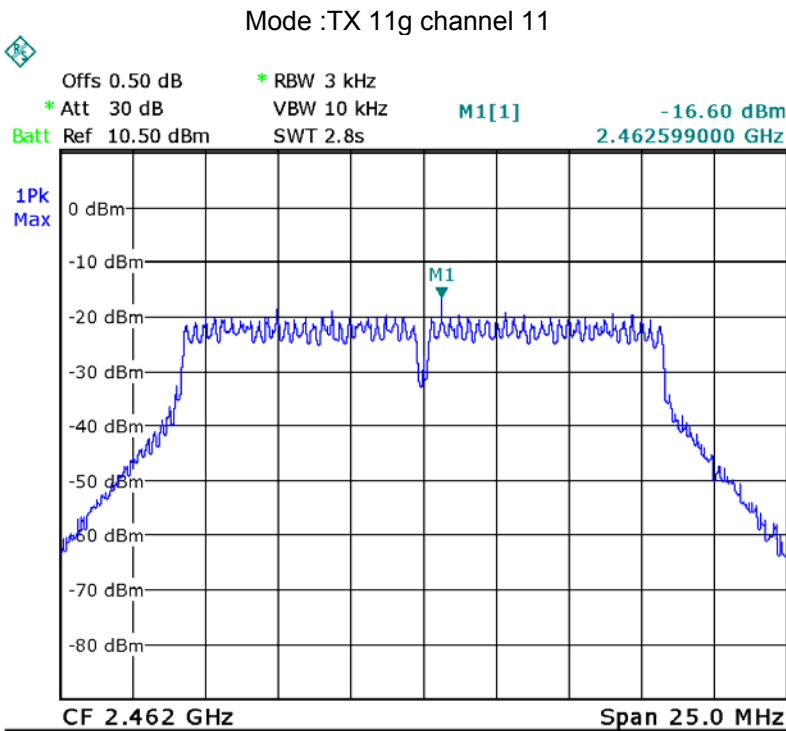
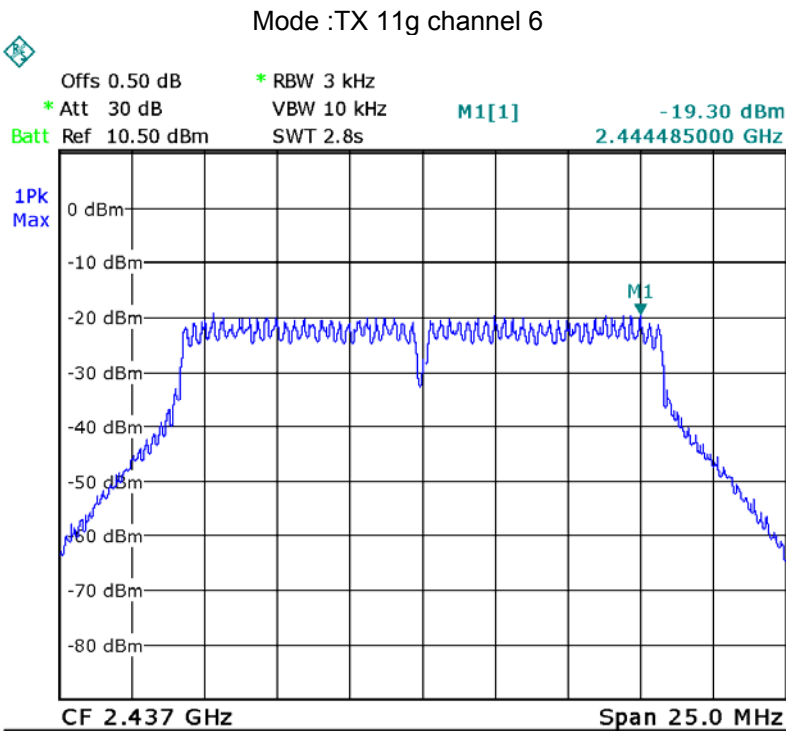
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to 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.

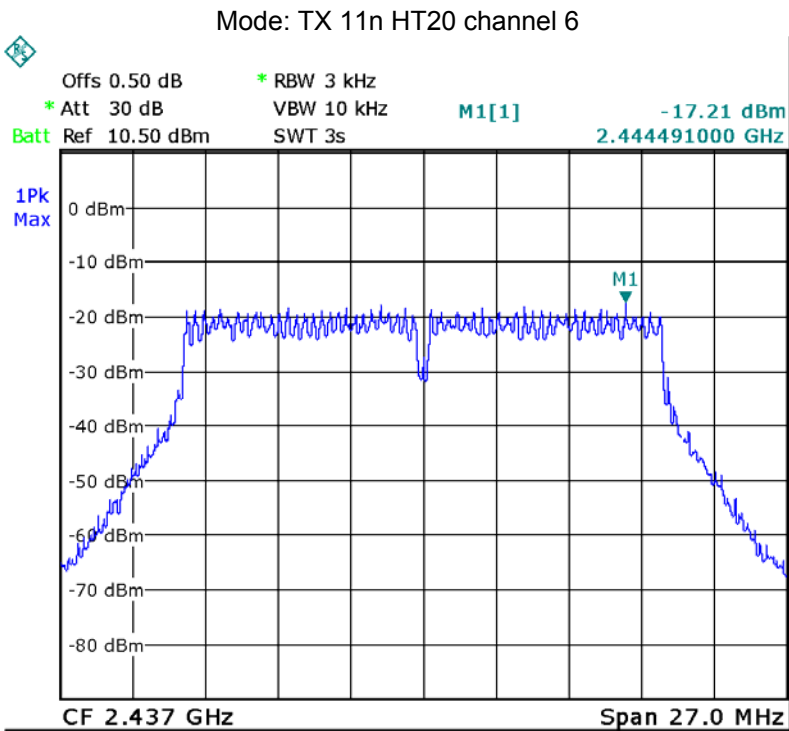
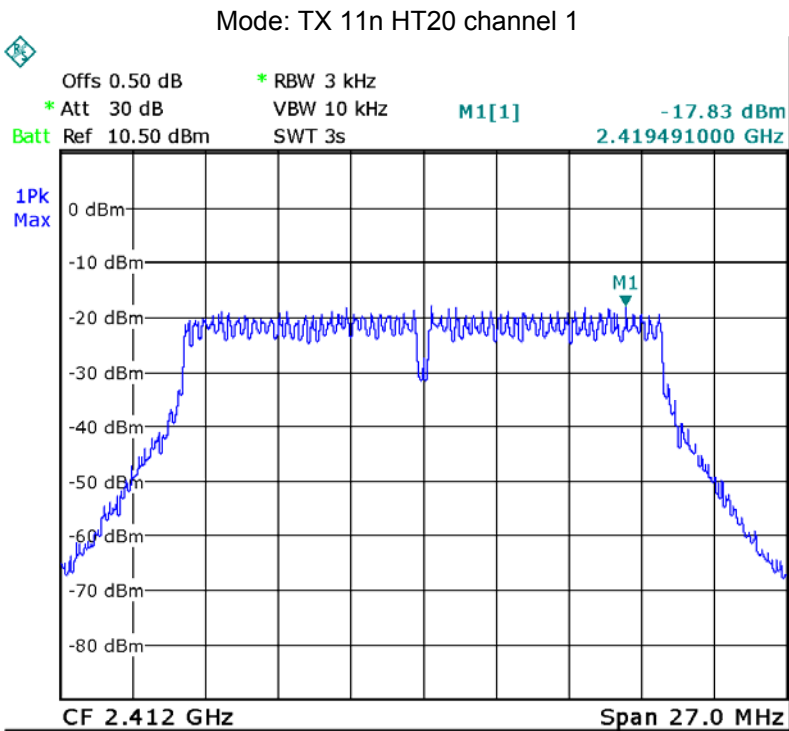
13.2 Test Result:

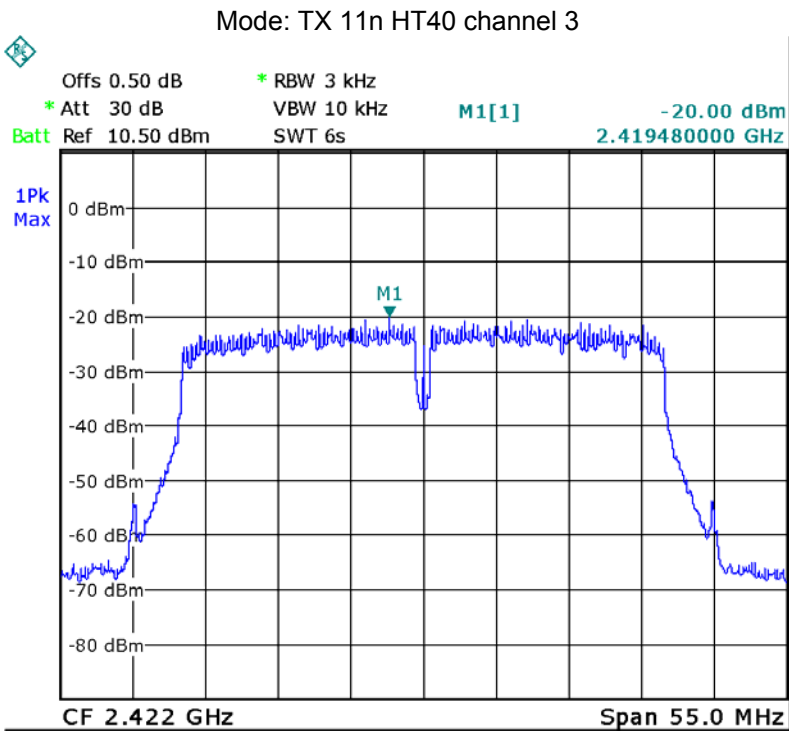
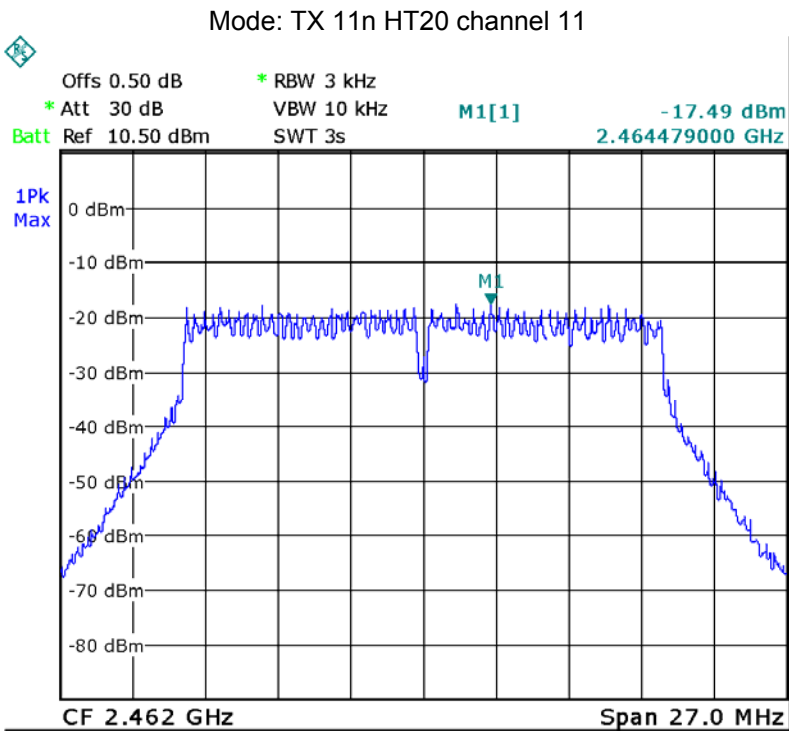
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
TX 11b	Low-2412	-2.29	8dBm per 3kHz
	Middle-2437	-2.64	8dBm per 3kHz
	High-2462	-11.17	8dBm per 3kHz
TX 11g	Low-2412	-17.60	8dBm per 3kHz
	Middle-2437	-19.30	8dBm per 3kHz
	High-2462	-16.60	8dBm per 3kHz
TX 11n HT20	Low-2412	-17.83	8dBm per 3kHz
	Middle-2437	-17.21	8dBm per 3kHz
	High-2462	-17.49	8dBm per 3kHz
TX 11n HT40	Low-2422	-20.00	8dBm per 3kHz
	Middle-2437	-20.69	8dBm per 3kHz
	High-2452	-20.64	8dBm per 3kHz

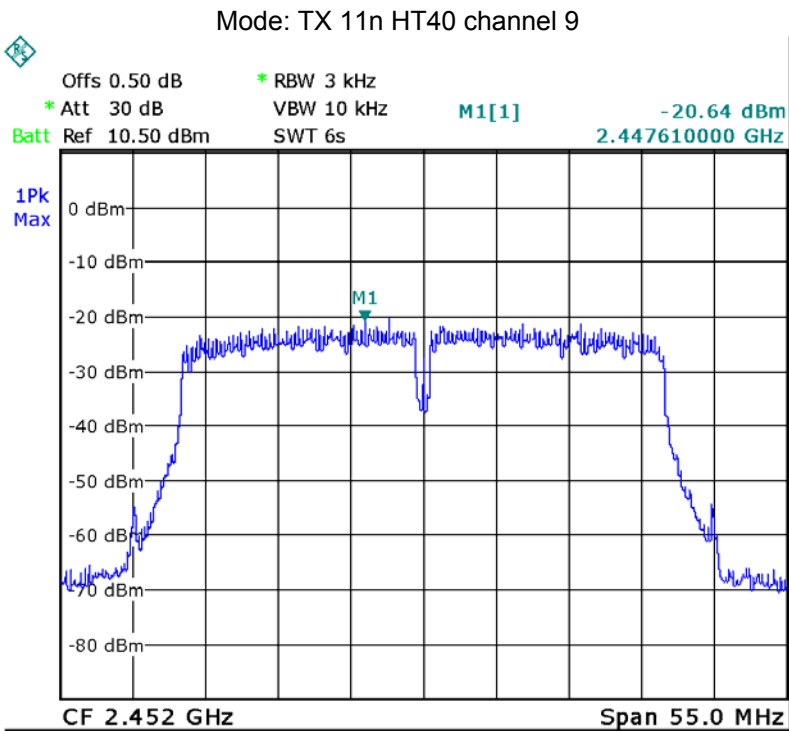
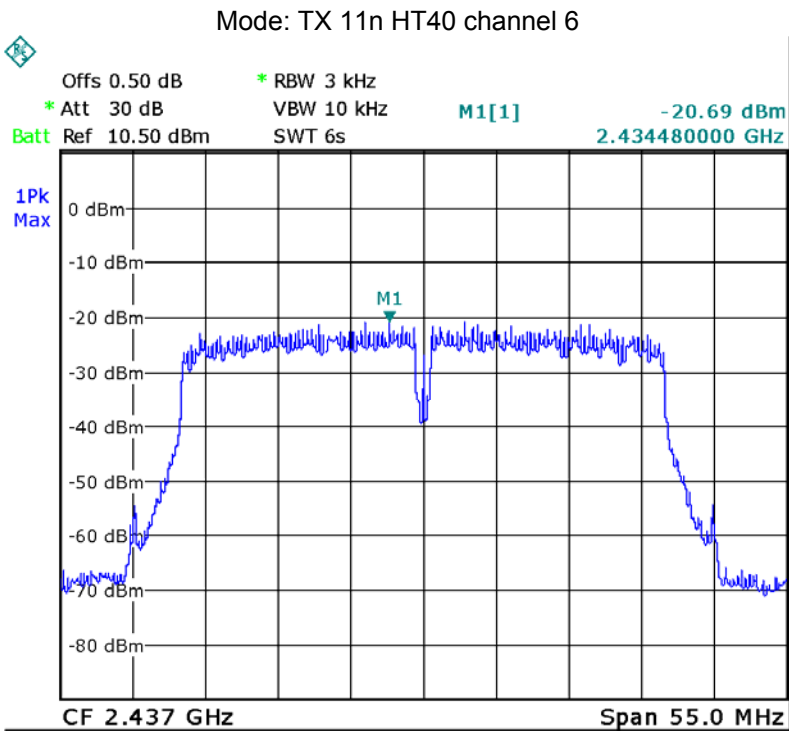












14 Antenna Requirement

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.

15 RF Exposure

Remark: refer to MPE test report: WTD22D03052145W002.

16 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix- NBDVR380GW -Photos.

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