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Report No.: SHEM160900595203
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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1609005952CR
Applicant:	Shanghai PartnerX Robotics Co.,Ltd
FCC ID:	2AJ5L-K
Equipment Under Test (EUT): NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	Krypton series
Model No.(EUT):	Krypton 7
Added Model:	Krypton 3, Krypton 5
Standards:	FCC PART 15 Subpart C: 2015
Date of Receipt:	2016-09-09
Date of Test:	2016-09-09 to 2016-11-11
Date of Issue:	2016-11-16
Test Result:	Pass*

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

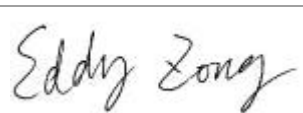
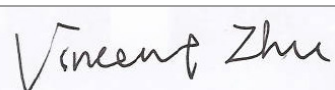
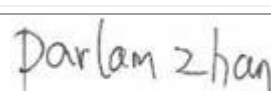
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2016-11-16	/	Original

Authorized for issue by:			
Engineer		Eddy Zong	
		Print Name	
Clerk		Vincent Zhu	
		Print Name	
Reviewer		Parlam Zhan	
		Print Name	

3 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203/15.247 (c)	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	ANSI C63.10 (2013) Section 6.2	PASS
Minimum 6dB Bandwidth	FCC Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 (2013) Section 11.8.1	PASS
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 (2013) Section 11.9.1.2	PASS
Power Spectrum Density	FCC Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 (2013) Section 11.10.2	PASS
RF Conducted Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013) Section 11.11&11.13.3.2	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS



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5 General Information

5.1 Client Information

Applicant:	Shanghai PartnerX Robotics Co.,Ltd
Address of Applicant:	8th Floor, Building 90, No.1122 North Qinzhou Rd.Shanghai, China 200233
Manufacturer:	Shanghai PartnerX Robotics Co.,Ltd
Address of Manufacturer:	8th Floor, Building 90, No.1122 North Qinzhou Rd.Shanghai, China 200233
Factory:	Shanghai PartnerX Robotics Co.,Ltd
Address of Factory:	The west side of 2rd Floor, Building 9, No.628 Jiuxin Highway.Shanghai, China 201615

5.2 General Description of E.U.T.

Brand Name:	Abilix		
Battery:	DC 7.4V 1500mAh rechargeable Li-ion battery		
Test Voltage:	AC 120V, 60Hz		
Adapter:	Manufacturer:	Xinsu Global Electronic Co.,Ltd	
	Model No.	XSG0841000US	
	Rated Input:	AC 100-240V 50/60Hz 0.6A Max	
	Rated Output:	DC 8.4V 1.0A	
	Cable length:	AC port:	0 cm (2wires)
		DC port:	100 cm

5.3 Technical Specifications

Operation Frequency:	802.11 b/g/n(HT20): 2412-2462MHz 802.11 n(HT40): 2422-2452MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n (HT20,HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	802.11 b/g/n(HT20): 11 802.11 n(HT40): 7
Data Rate:	802.11b: 1/2/5.5/11Mbps, 802.11g: 6/9/12/18/36/48/54Mbps 802.11n(HT20): 6.5/13/19.5/26/39/52/58.5/65Mbps 802.11n(HT40): 13.5/27/40.5/54/81/108/121.5/135Mbps
Antenna Type:	PCB antenna
Antenna Gain:	-1 dBi

5.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting in max power level

5.5 Test Channel

		802.11 b/g/n20(HT20)				802.11 n40(HT40)		
	Channel	Frequency	Data rate			Channel	Frequency	Data rate
			b	g	n(HT20)			
lowest channel	CH01	2412MHz	1Mbps	6Mbps	6.5Mbps	CH03	2422MHz	13.5Mbps
Middle channel	CH06	2437MHz	1Mbps	6Mbps	6.5Mbps	CH06	2437MHz	13.5Mbps
Highest channel	CH11	2462MHz	1Mbps	6Mbps	6.5Mbps	CH09	2452MHz	13.5Mbps

Remark: Preliminary tests were performed in all tests in different data rate and antenna configurations at lowest channel, the data rates of worse case as above were chosen for final test.

5.6 Description of Support Units

The EUT has been tested with support equipments as below.

Description	Manufacturer	Model No.	Supplied By
/	/	/	/

Software name	Manufacturer	Version	Supplied By
Exdialer	/	V2.1	Client

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666
Fax: +86 21 6191 5678

5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

5.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$< \pm 1 \times 10^{-5}$
2	Total RF power, conducted	$< \pm 1.5 \text{ dB}$
3	RF power density, conducted	$< \pm 3 \text{ dB}$
4	Spurious emissions, conducted	$< \pm 3 \text{ dB}$
5	All emissions, radiated	$< \pm 6 \text{ dB}$ (Below 1GHz) $< \pm 6 \text{ dB}$ (Above 1GHz)
6	Temperature	$< \pm 1^{\circ}\text{C}$
7	Humidity	$< \pm 5 \%$
8	DC and low frequency voltages	$< \pm 3 \%$

6 Equipments Used during Test

No.	Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
1	Power Meter	R&S	NRP	SHEM057-1	2016-01-14	2017-01-13
2	Power Meter Sensor	R&S	NRP-Z22	SHEM136-1	2016-08-12	2017-08-11
3	Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2016-01-14	2017-01-13
4	EMI Receiver	R&S	ESU40	SHEM051-1	2016-01-16	2017-01-15
5	EMI Receiver	R&S	ESR7	SHEM162-1	2016-01-14	2017-01-13
6	LISN	SCHWARZBECK	NSLK8127	SHEM061-1	2016-01-14	2017-01-13
7	LISN	EMCO	3816/2	SHEM019-1	2016-01-14	2017-01-13
8	Loop Antenna (9kHz to 30MHz)	R&S	FMZB1519	SHEM135-1	2016-01-18	2017-01-17
9	Broadband Antenna (25MHz to 2GHz)	SCHWARZBECK	VULB9168	SHEM048-1	2016-01-16	2017-01-15
10	Broadband Antenna (25MHz to 3GHz)	R&S	HL562	SHEM010-1	2016-01-16	2017-01-15
11	Horn Antenna (1GHz to 18GHz)	R&S	HF906	SHEM009-1	2016-01-16	2017-01-15
12	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	SHEM050-1	2016-01-16	2017-01-15
13	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	SHEM049-1	2016-01-16	2017-01-15
14	Pre-amplifier (9KHz – 2GHz)	TESEQ	LNA6900	SHEM074-1	2016-01-14	2017-01-13
15	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	F0118-G40-BZ4	SHEM049-2	2016-01-14	2017-01-13
16	Pre-amplifier (14GHz – 40GHz)	SCHWARZBECK	F1840-G35-BZ3	SHEM050-2	2016-01-14	2017-01-13
17	Low Pass Filter	Mini-Circuits	VLF-2500	SHEM114-1		
18	High Pass Filter	LORCH	5BRX-2400	SHEM155-1	/	/
19	High-low Temperature Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2016-08-15	2017-08-14
20	AC Power Stabilizer	WOCEN	6100	SHEM045-1	2016-01-14	2017-01-13
21	DC Power Supply	QJE	QJ30003SII	SHEM046-1	2016-01-14	2017-01-13
22	Signal Generator (Interferer)	R&S	SMR40	SHEM058-1	2016-08-12	2017-08-11
23	Signal Generator (Blocker)	R&S	SMJ100A	SHEM141-1	2016-01-14	2017-01-13
24	Splitter	ANRITSU CORP	MA1612A	SHEM159-1	/	/
25	Coupler	Mini-Circuits	803-S-1	SHEM113-1	/	/

7 Test Results

7.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:	Temperature:	20.0 -25.0 °C
	Humidity:	35-75 % RH
	Atmospheric Pressure:	99.2 -102 kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

7.2 Antenna Requirement

Standard requirement:

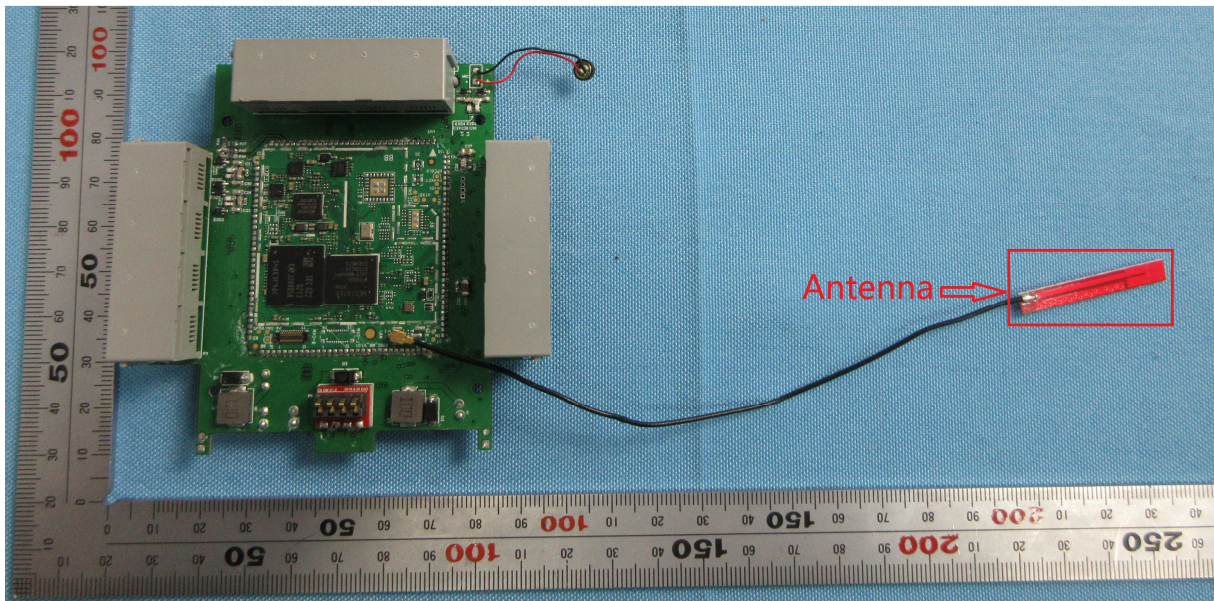
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement.

The gain of the antenna is less than -1.0 dBi



7.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

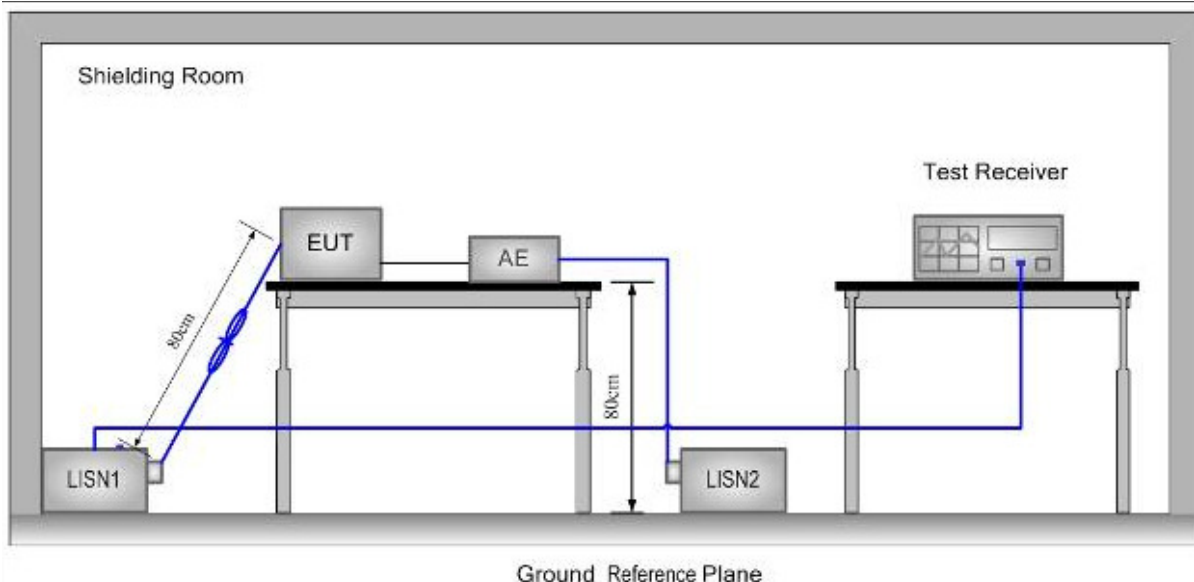
Limit:

Frequency range MHz	Class B Limits: dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test Setup:



Test Procedure:

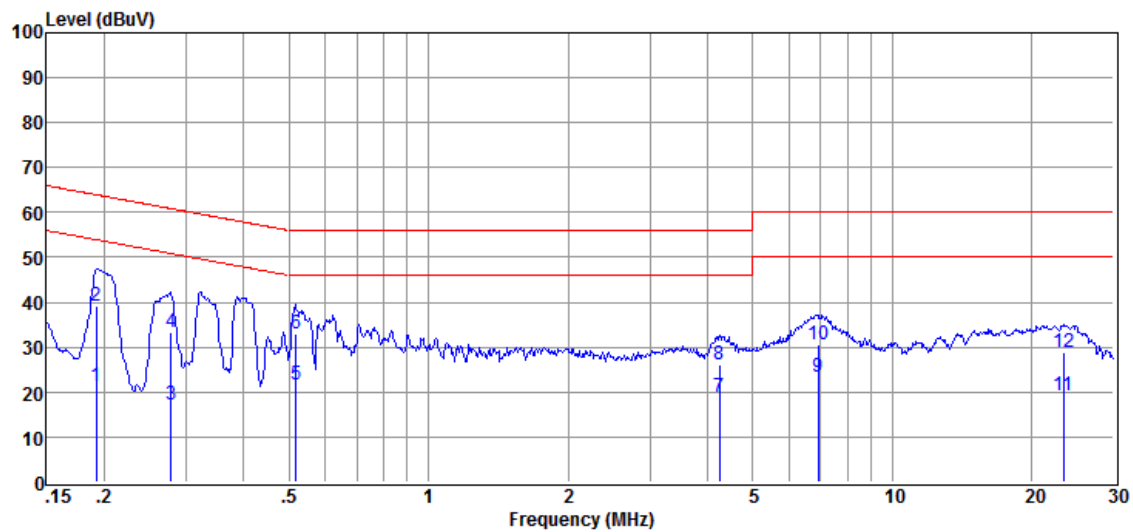
- 1) The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (802.11b in Middle channel) record on the report. Please see the attached Quasi-peak and Average test results.

Test Result: Pass

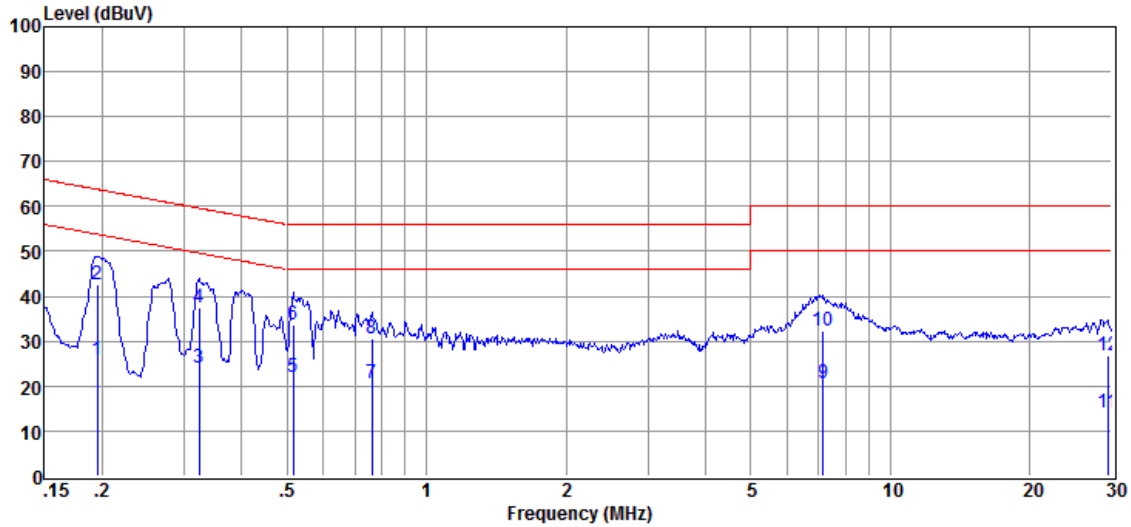
Test Data:

Test Mode:	802.11b	Test Channel:	Middle
Test Port:	AC Live Line		



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.192	10.90	0.09	10.15	21.14	53.93	-32.79	Average
2	0.192	28.77	0.09	10.15	39.01	63.93	-24.92	QP
3	0.279	6.90	0.09	10.16	17.15	50.85	-33.70	Average
4	0.279	22.95	0.09	10.16	33.20	60.85	-27.65	QP
5	0.518	11.30	0.10	10.17	21.57	46.00	-24.43	Average
6	0.518	22.75	0.10	10.17	33.02	56.00	-22.98	QP
7	4.247	8.49	0.14	10.23	18.86	46.00	-27.14	Average
8	4.247	15.76	0.14	10.23	26.13	56.00	-29.87	QP
9	6.914	13.07	0.17	10.28	23.52	50.00	-26.48	Average
10	6.914	20.12	0.17	10.28	30.57	60.00	-29.43	QP
11	23.387	8.56	0.36	10.40	19.32	50.00	-30.68	Average
12	23.387	17.93	0.36	10.40	28.69	60.00	-31.31	QP

Test Port: AC Neutral Line

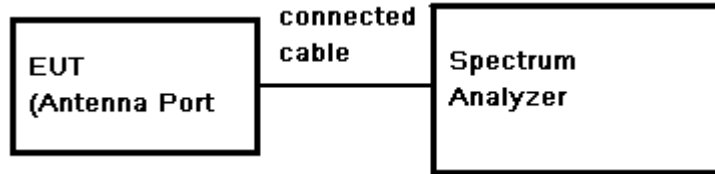


Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.196	15.47	0.05	10.15	25.67	53.80	-28.13	Average
2	0.196	32.27	0.05	10.15	42.47	63.80	-21.33	QP
3	0.323	13.70	0.04	10.16	23.90	49.62	-25.72	Average
4	0.323	27.23	0.04	10.16	37.43	59.62	-22.19	QP
5	0.516	11.89	0.04	10.17	22.10	46.00	-23.90	Average
6	0.516	23.50	0.04	10.17	33.71	56.00	-22.29	QP
7	0.763	10.28	0.05	10.18	20.51	46.00	-25.49	Average
8	0.763	20.34	0.05	10.18	30.57	56.00	-25.43	QP
9	7.175	10.31	0.19	10.28	20.78	50.00	-29.22	Average
10	7.175	21.74	0.19	10.28	32.21	60.00	-27.79	QP
11	29.371	3.06	0.56	10.50	14.12	50.00	-35.88	Average
12	29.371	15.86	0.56	10.50	26.92	60.00	-33.08	QP

Remark: Level = Read Level + LISN/ISN Factor + Cable Loss.

7.4 6dB Occupied Bandwidth

Test Configuration:



Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3) Set the spectrum analyzer as RBW=100KHz, VBW≥3* RBW, Detector=Peak, Trace mode= Max hold, Sweep=Auto couple.
- 4) Mark the peak frequency and -6dB (upper and lower) frequency.
- 5) Repeat above procedures until all frequency measured was complete.

Limit: ≥ 500 kHz

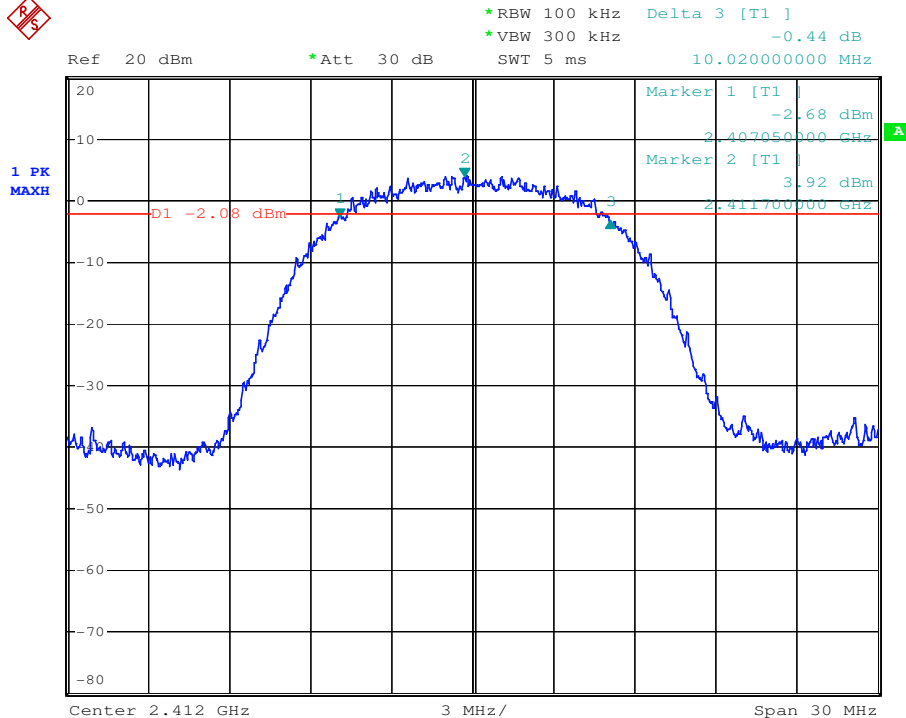
Test Result: Pass

Test Data:

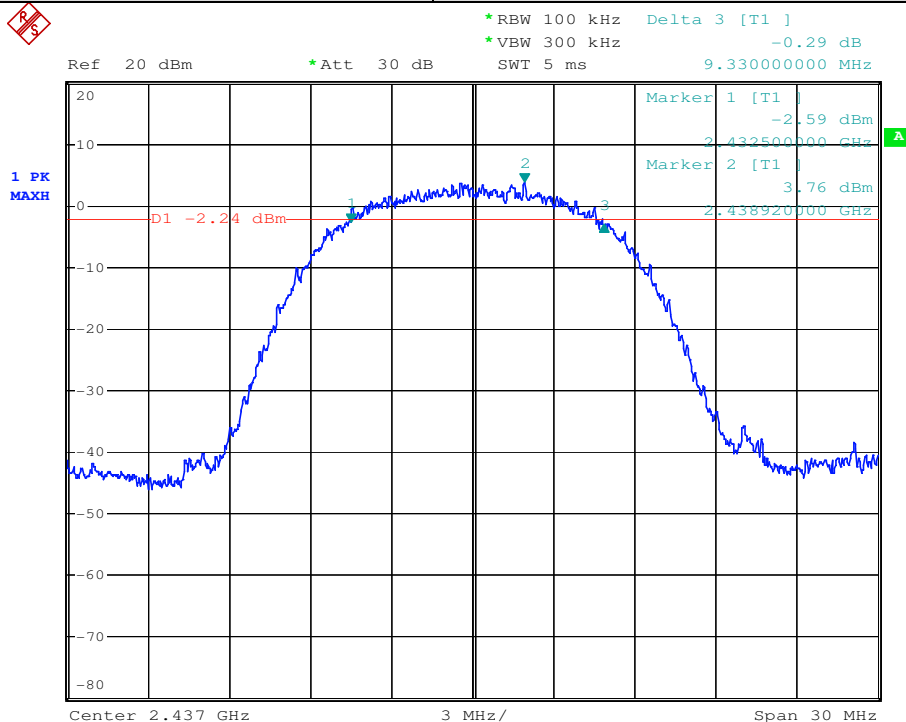
Test Mode	Test Frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11b	2412	10.02	500	Pass
	2437	9.33		Pass
	2462	9.99		Pass
802.11g	2412	16.62		Pass
	2437	16.62		Pass
	2462	16.59		Pass
802.11 n(HT20)	2412	17.82		Pass
	2437	17.82		Pass
	2462	17.79		Pass
802.11 n(HT40)	2422	36.24		Pass
	2437	36.07		Pass
	2452	35.79		Pass

Test plot as follows:

802.11 b	Channel: 2412
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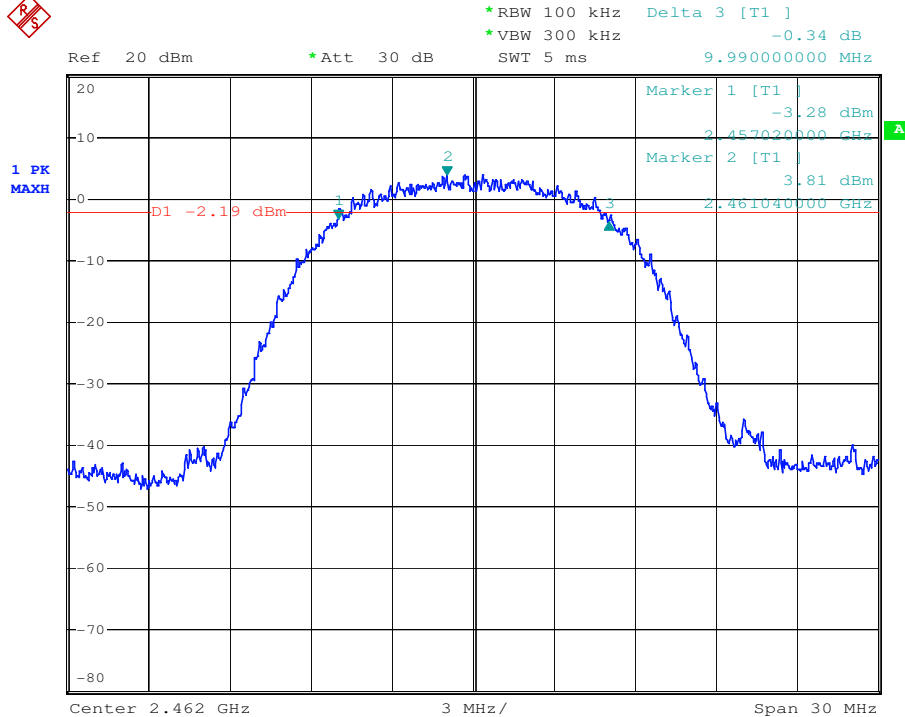
802.11 b	Channel: 2437
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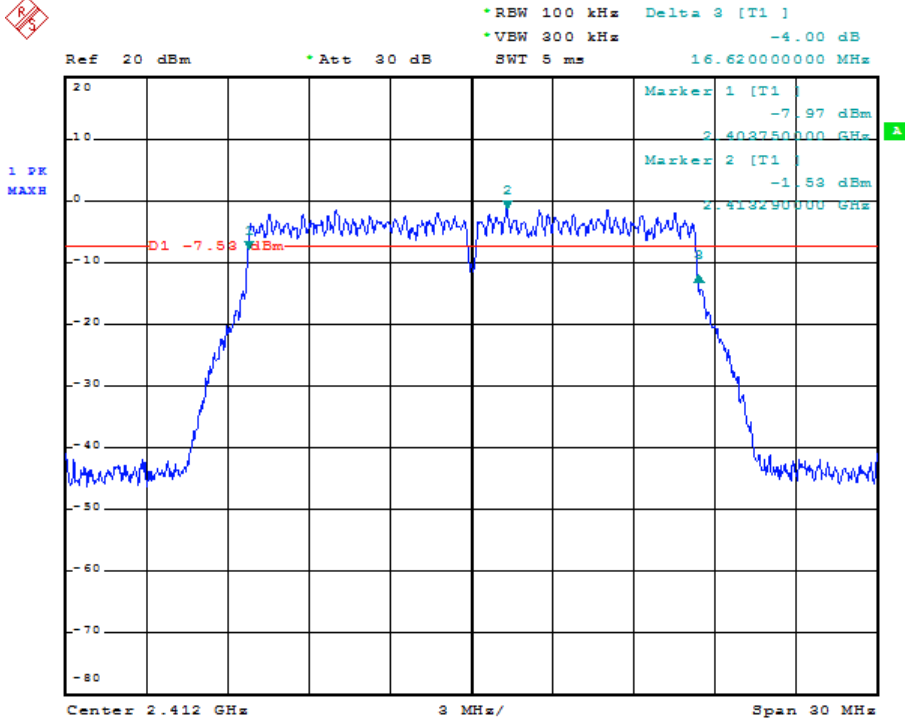
802.11 b

Channel: 2462



802.11 g

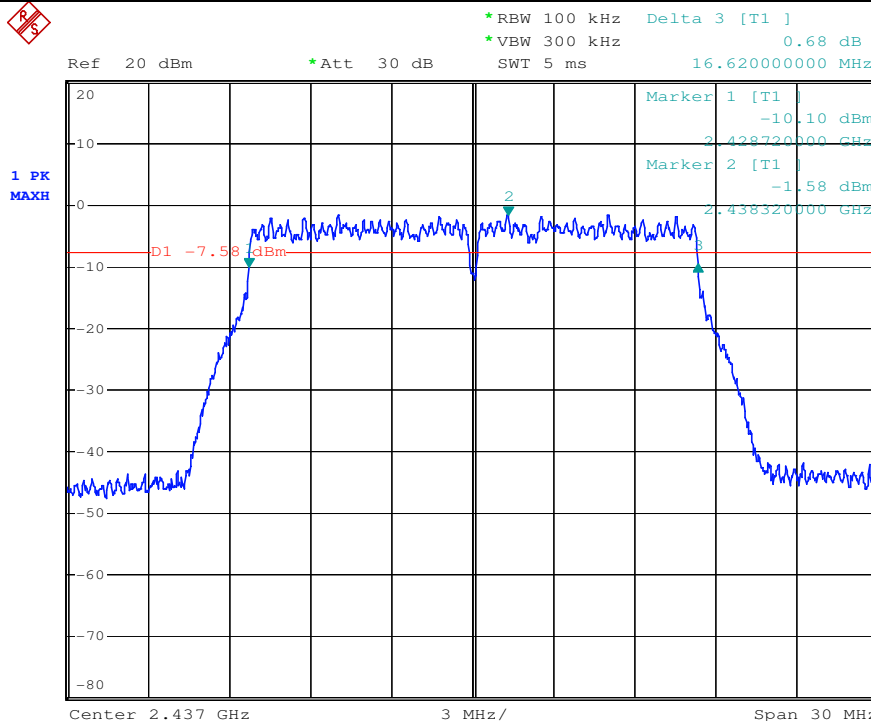
Channel: 2412





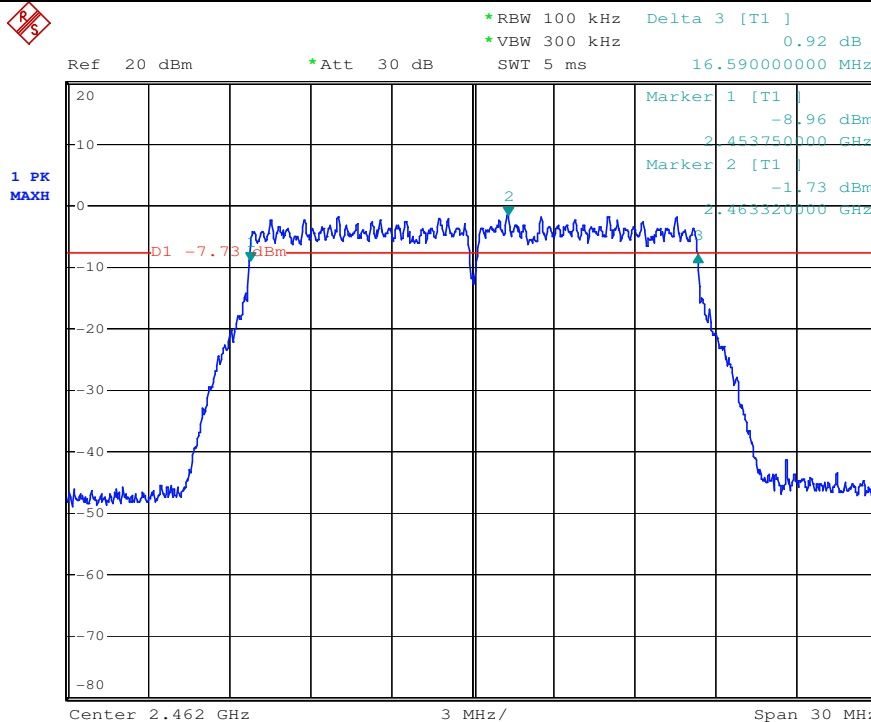
802.11 g

Channel: 2437

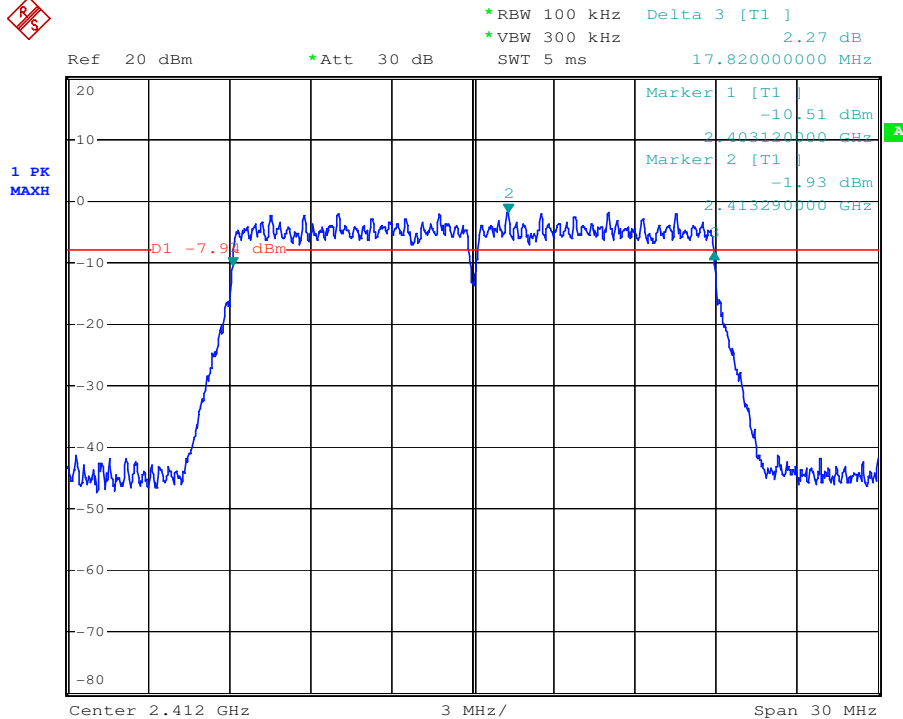


802.11 g

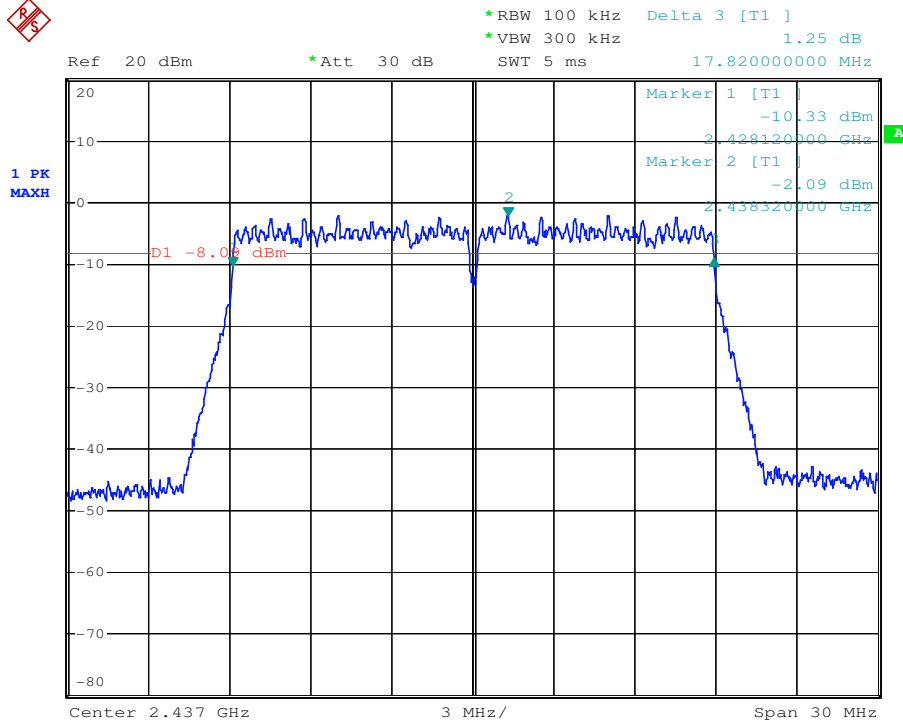
Channel: 2462



802.11 n (HT20)	Channel: 2412
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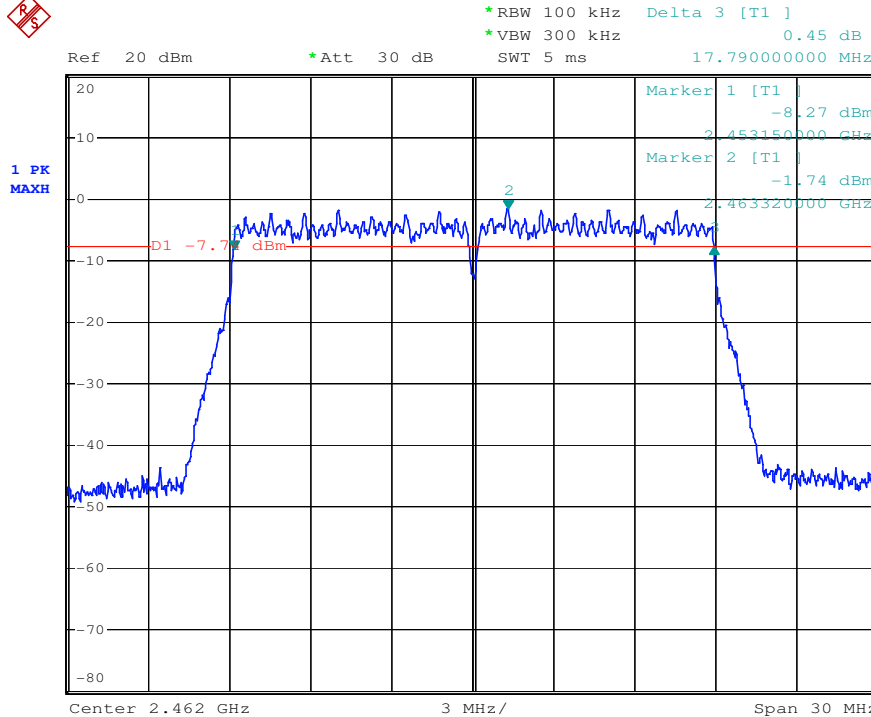


802.11 n (HT20)	Channel: 2437
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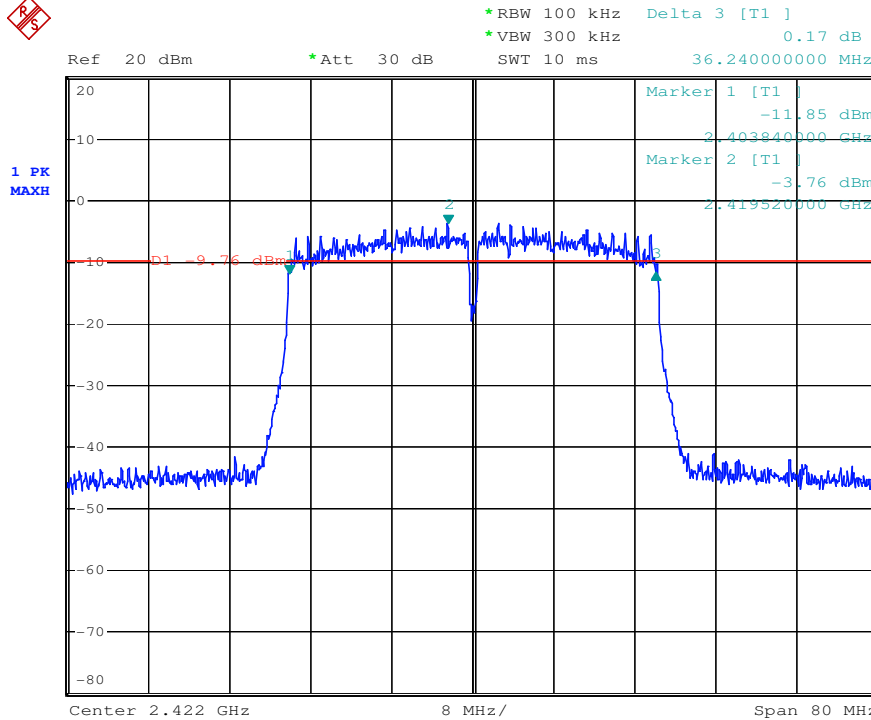
802.11 n (HT20)

Channel: 2462



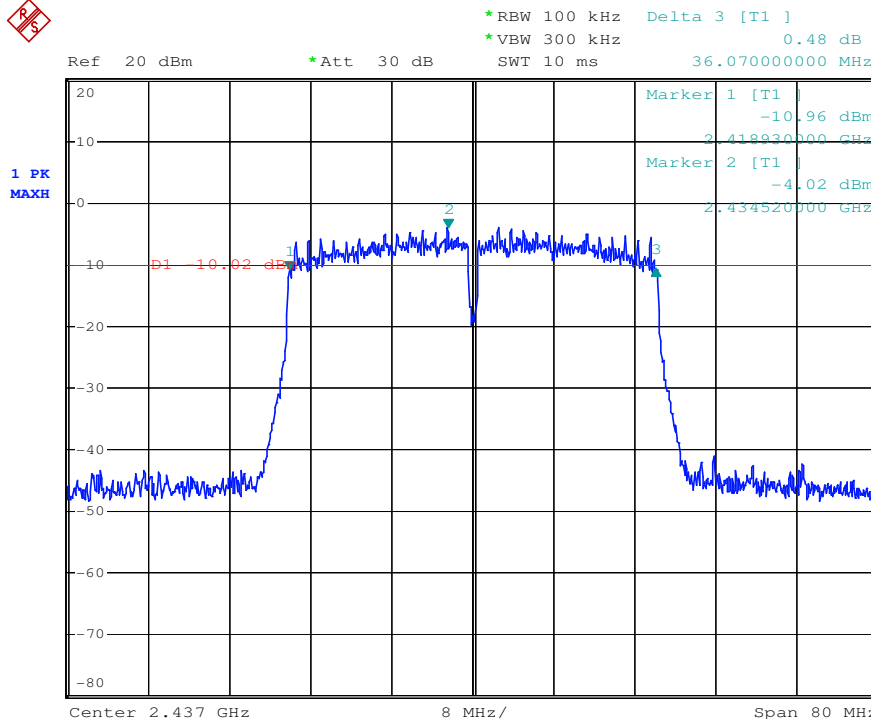
802.11 n (HT40)

Channel: 2422



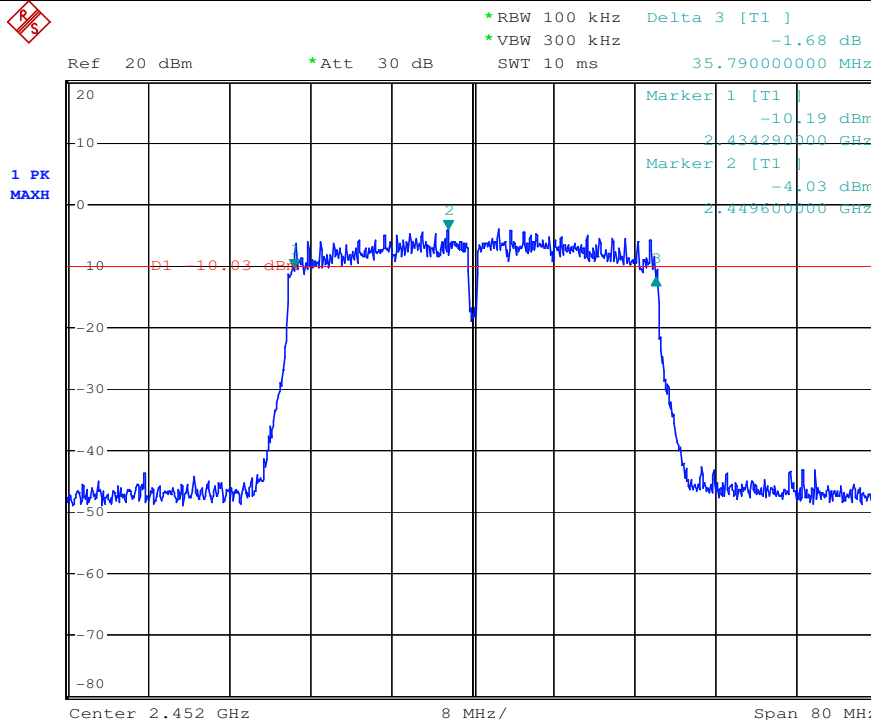
802.11 n (HT40)

Channel: 2437



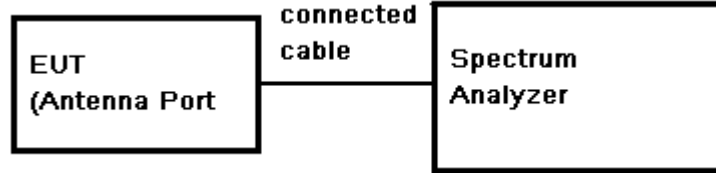
802.11 n (HT40)

Channel: 2452



7.5 Conducted Peak Output Power

Test Configuration:



Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
- 3) Set the spectrum analyzer as RBW=1MHz, VBW≥3* RBW, Detector=Peak, Span≥1.5 × DTS bandwidth, Trace mode= Max hold, Sweep=Auto couple
- 4) Allow trace to fully stabilize.
- 5) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges
- 6) Record the max. Power channel reading.
- 7) Repeat above procedures until all the frequency measured were complete.

Test Limit: 30dBm

Test Result: Pass

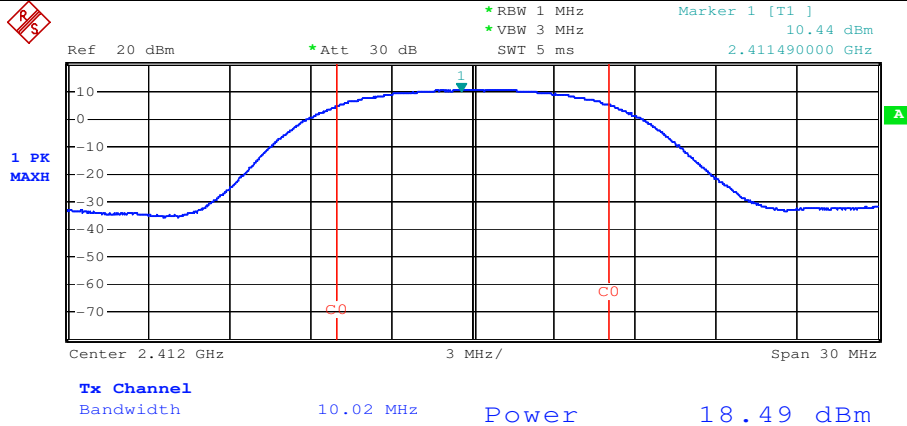
Test Data:

Test mode	Test Channel	Reading Power (dBm)	Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	18.49	18.99	30	Pass
	2437	18.24	18.74		Pass
	2462	18.85	19.35		Pass
802.11g	2412	18.38	18.88		Pass
	2437	19.02	19.52		Pass
	2462	18.83	19.33		Pass
802.11 n(HT20)	2412	18.38	18.88		Pass
	2437	18.50	19.00		Pass
	2462	18.59	19.09		Pass
802.11 n(HT40)	2422	19.18	19.68		Pass
	2437	18.95	19.45		Pass
	2452	18.49	18.99		Pass

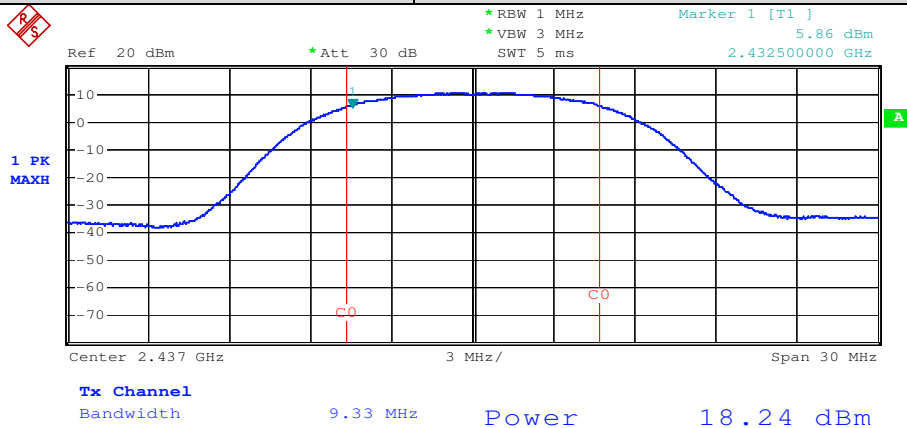
Remark: 1) Output Peak Power = Reading Peak Power + Cable loss
2) Cable loss=0.5dB

Test plot as follows:

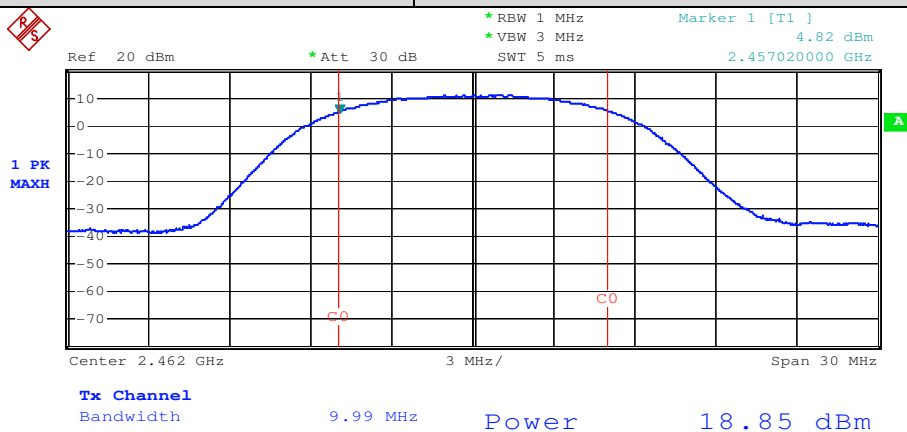
802.11 b	Channel: 2412
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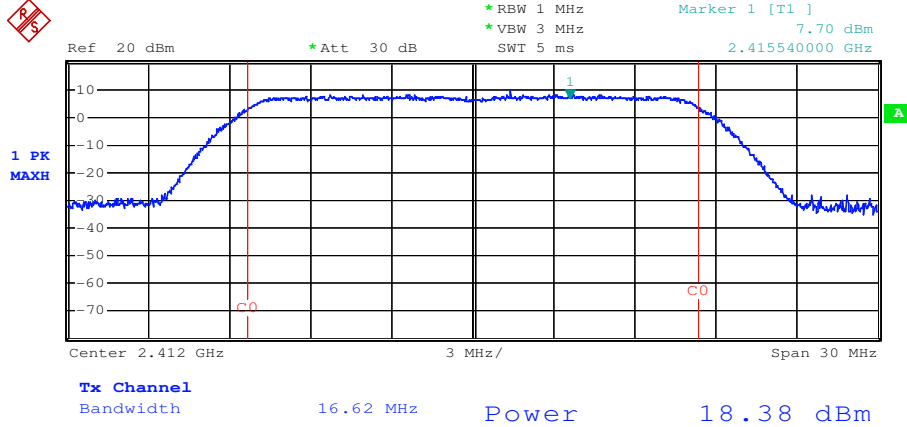
802.11 b	Channel: 2437
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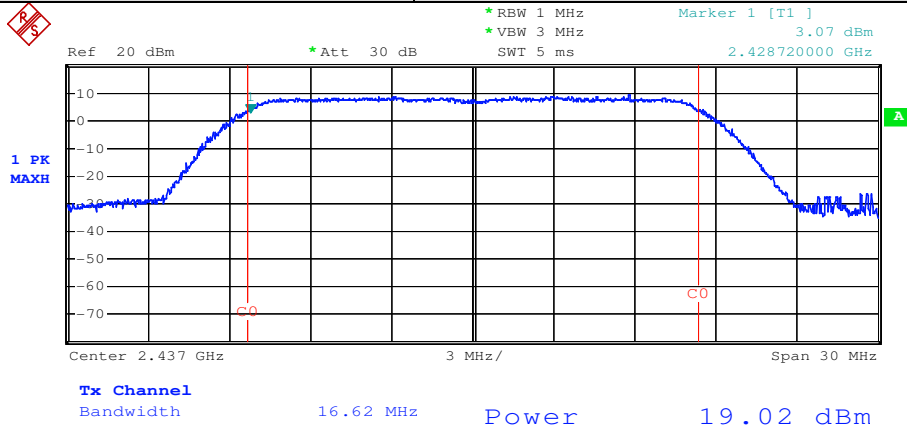
802.11 b	Channel: 2462
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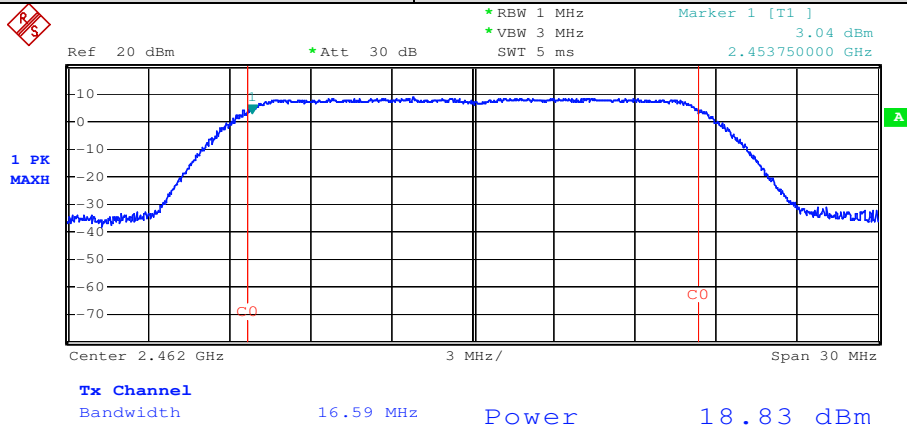
802.11 g	Channel: 2412
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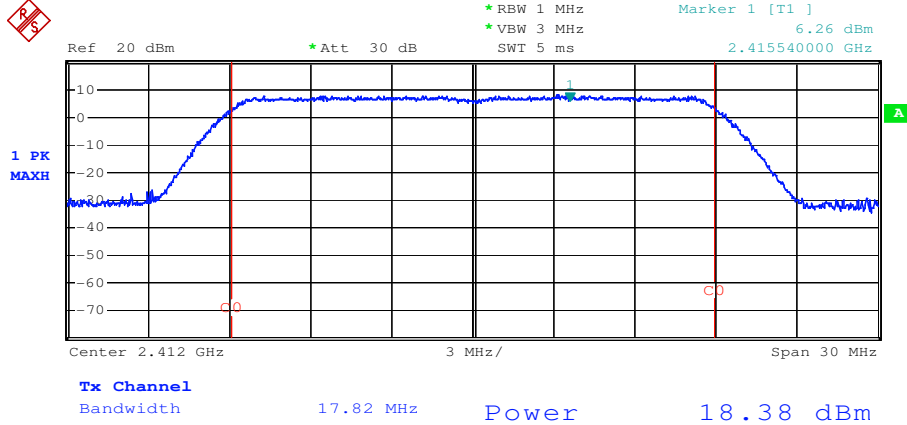
802.11 g	Channel: 2437
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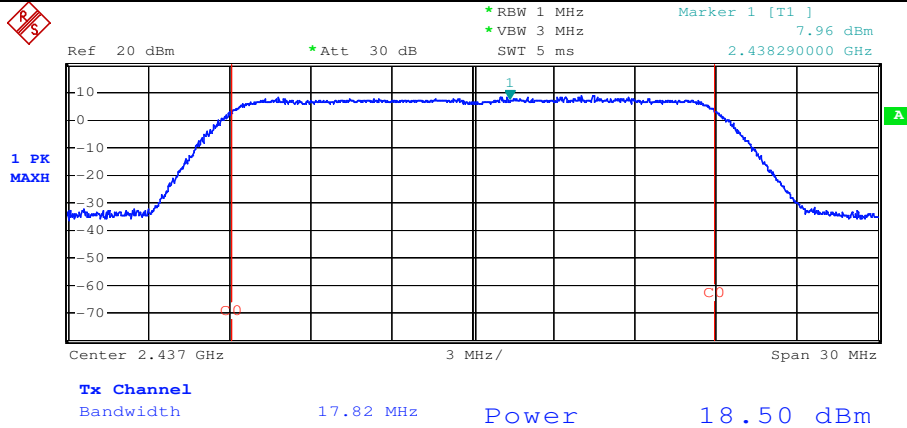
802.11 g	Channel: 2462
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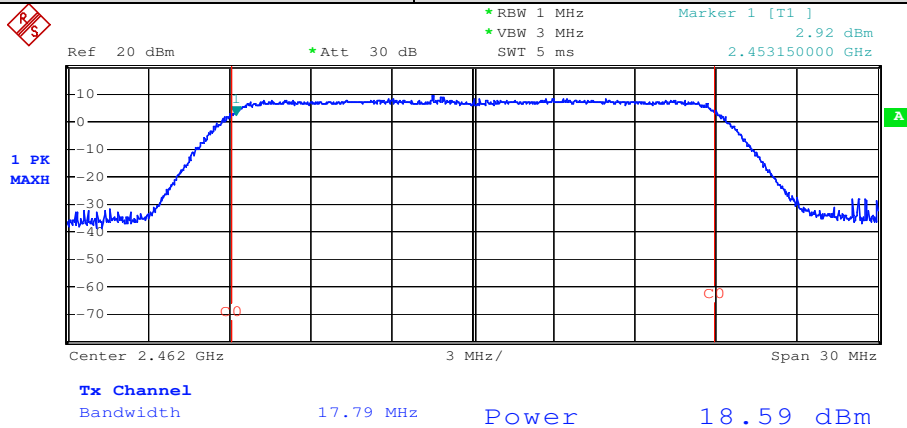
802.11 n (HT20)	Channel: 2412
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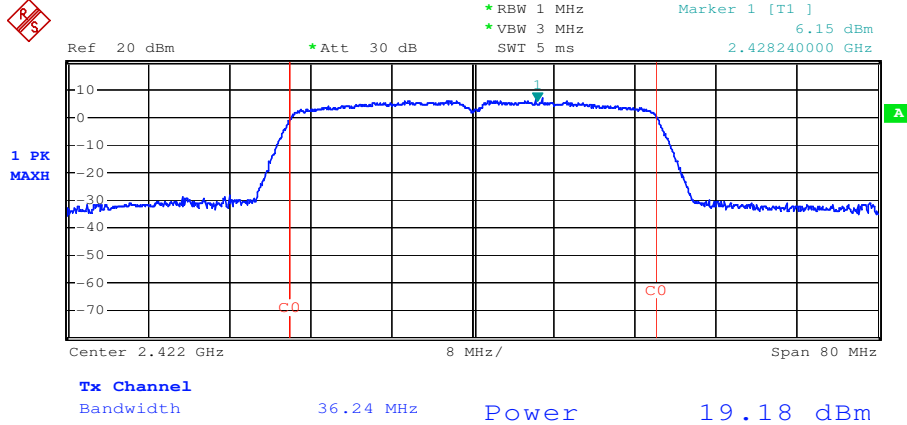
802.11 n (HT20)	Channel: 2437
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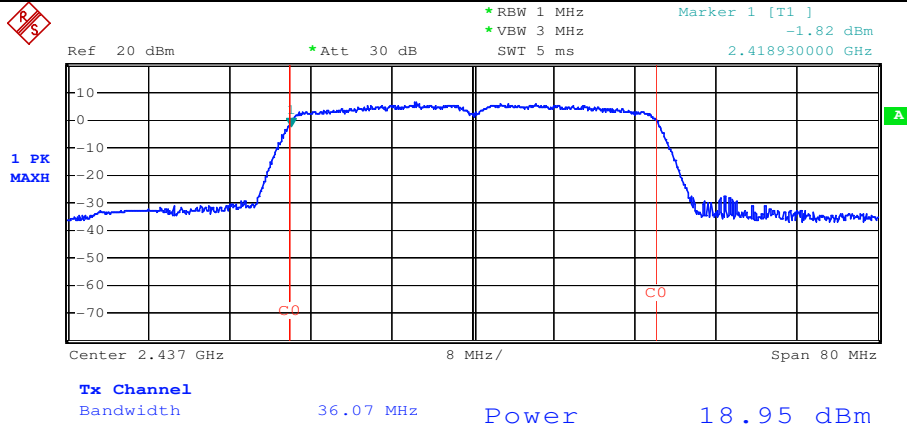
802.11 n (HT20)	Channel: 2462
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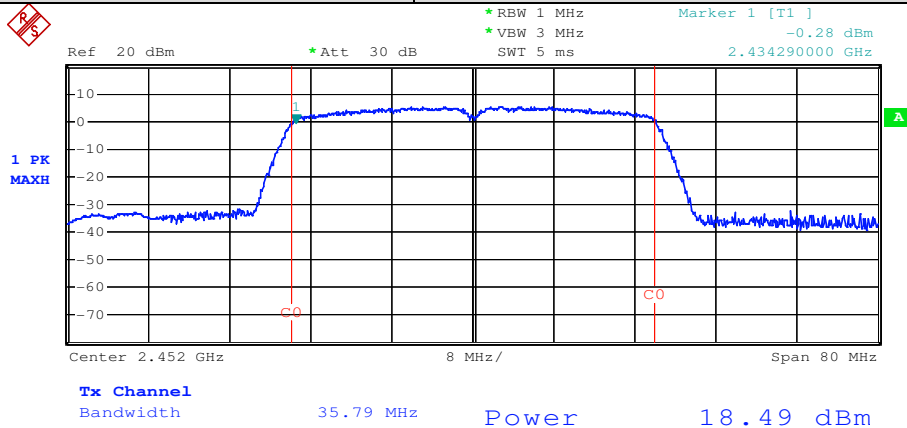
802.11 n (HT40)	Channel: 2422
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802.11 n (HT40)	Channel: 2437
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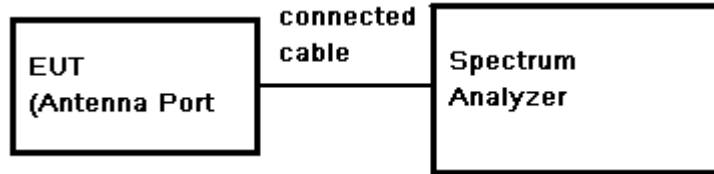


802.11 n (HT40)	Channel: 2452
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7.6 Peak Power Spectral Density

Test Configuration:



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: Center Frequency= Channel Frequency, RBW = 3 kHz VBW = 10 kHz. Span= 1.5 times the DTS bandwidth, Sweep = auto; Detector = Peak; Trace mode=max hold, Trace=Max hold.
- 3) Use the peak marker function to determine the maximum amplitude level within the RBW.
- 4) Record the marker level for the particular mode.
- 5) Repeat these steps for other channel and modes.

Test Limit:

8dBm/3kHz

Test Result:

Pass

Test Data:

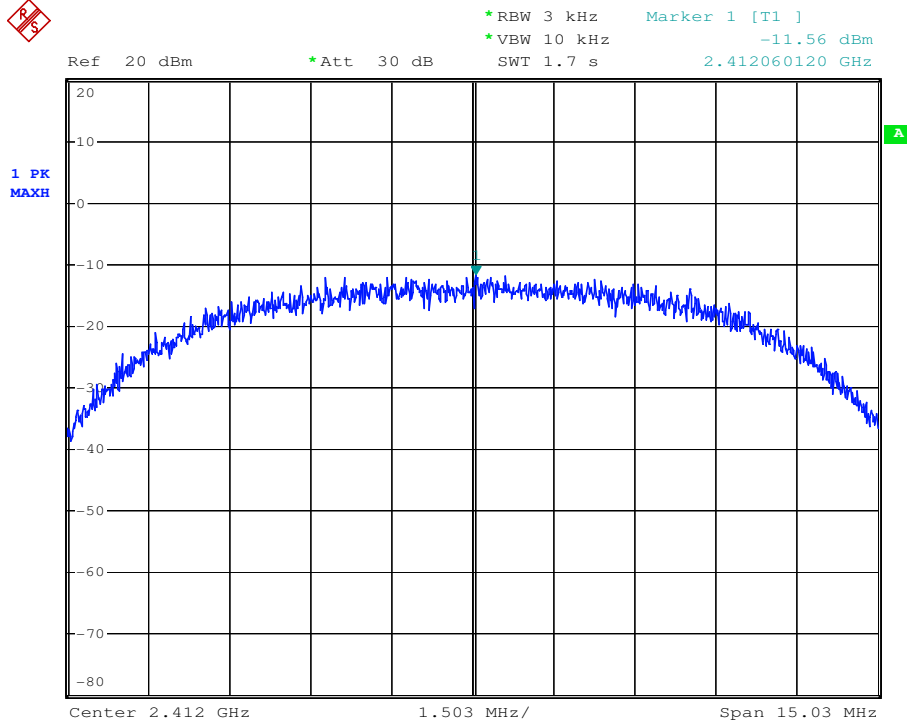
Test mode	Test Channel	Reading Value (dBm/3KHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11 b	2412	-11.56	-11.06	8	Pass
	2437	-9.65	-9.15		Pass
	2462	-10.79	-10.29		Pass
802.11 g	2412	-15.12	-14.62		Pass
	2437	-15.29	-14.79		Pass
	2462	-16.53	-16.03		Pass
802.11 n(HT20)	2412	-15.20	-14.7		Pass
	2437	-15.18	-14.68		Pass
	2462	-15.18	-14.68		Pass
802.11 n(HT40)	2422	-17.47	-16.97		Pass
	2437	-18.66	-18.16		Pass
	2452	-18.14	-17.64		Pass

Remark: 1) Output Peak Power = Reading Peak Power + Cable loss

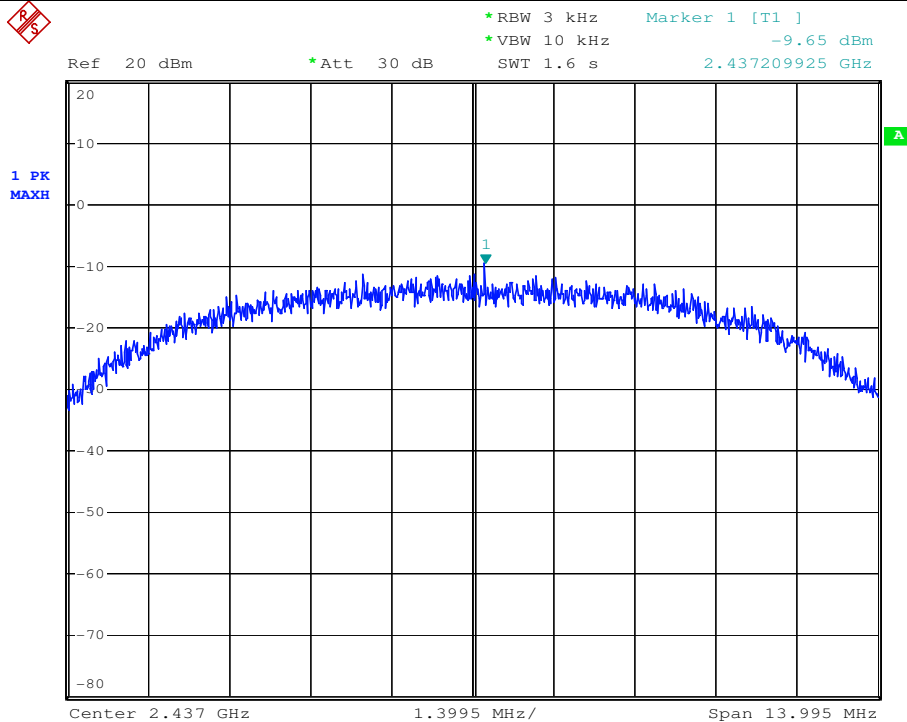
2) Cable loss=0.5dB

Test plot as follows:

802.11 b	Channel: 2412
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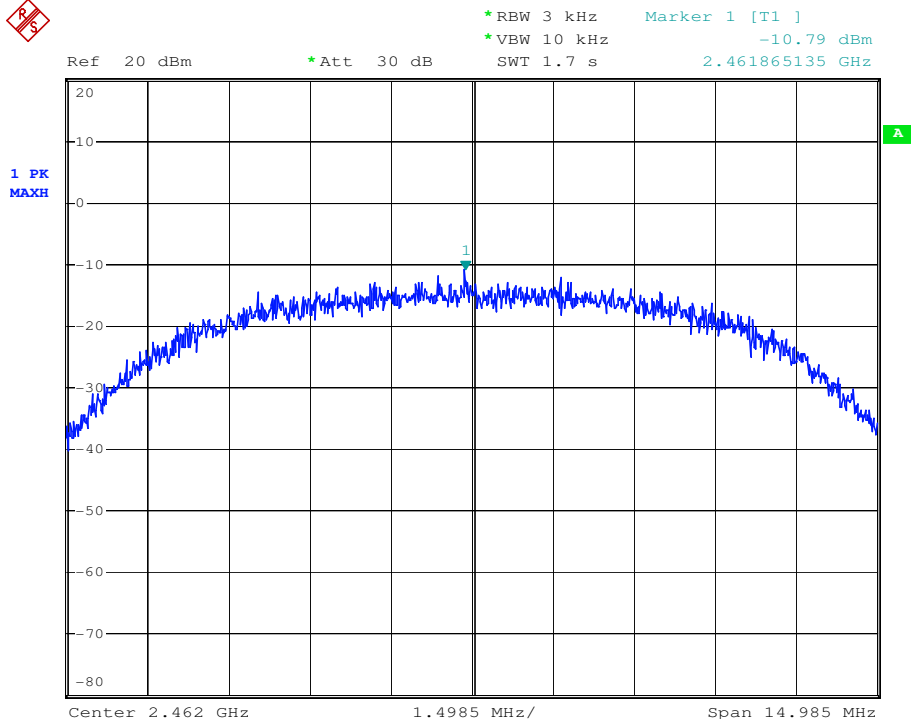


802.11 b	Channel: 2437
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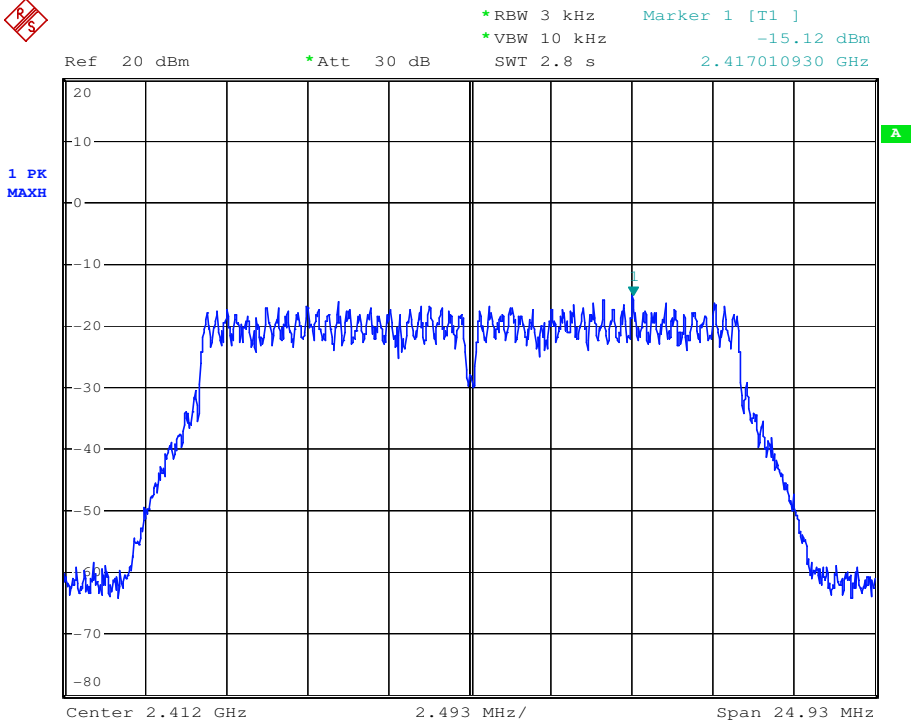
802.11 b

Channel: 2462



802.11 g

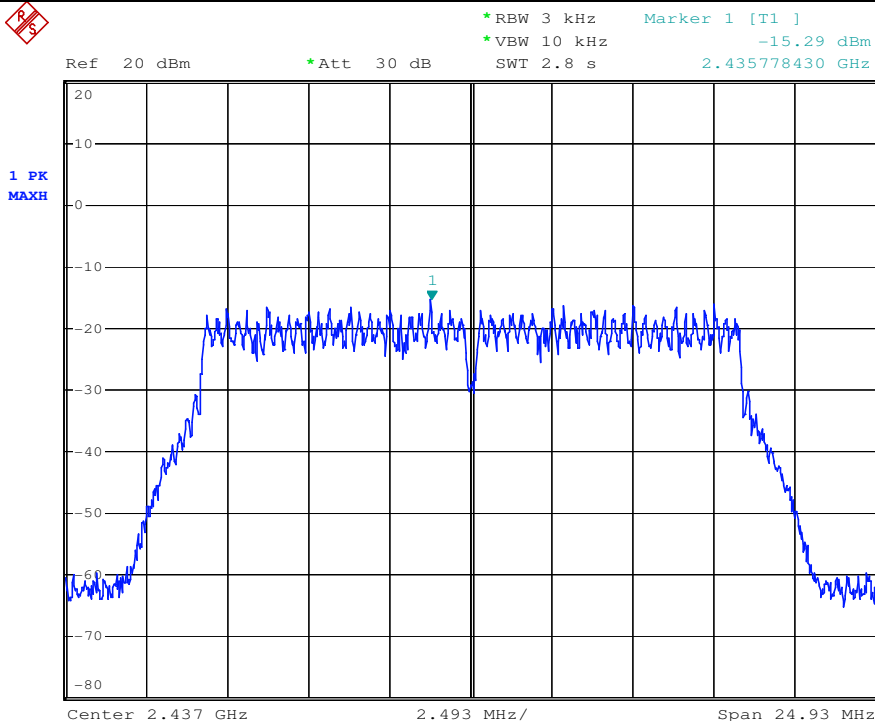
Channel: 2412





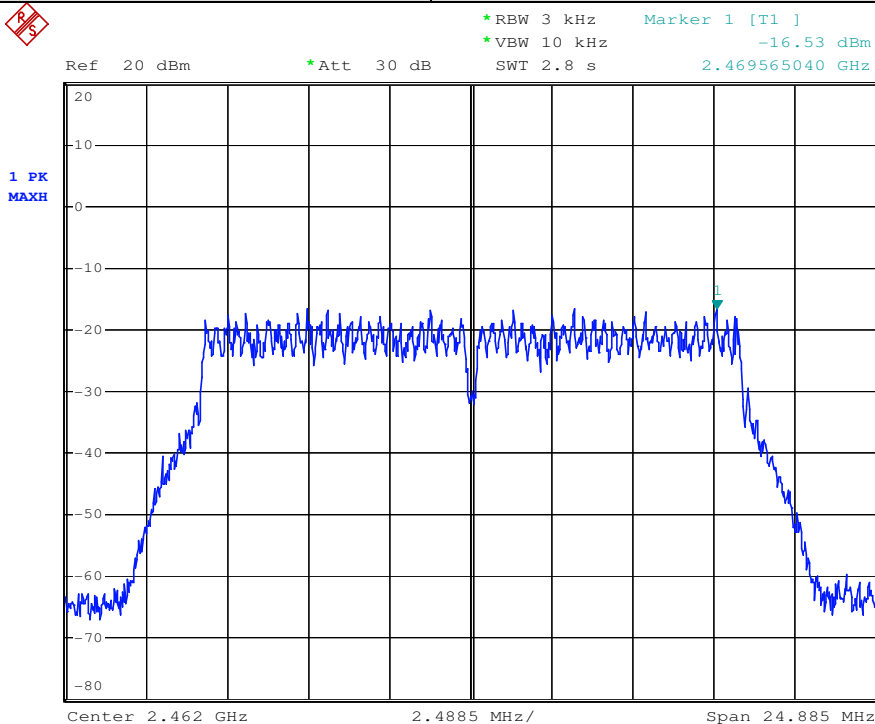
802.11 g

Channel: 2437



802.11 g

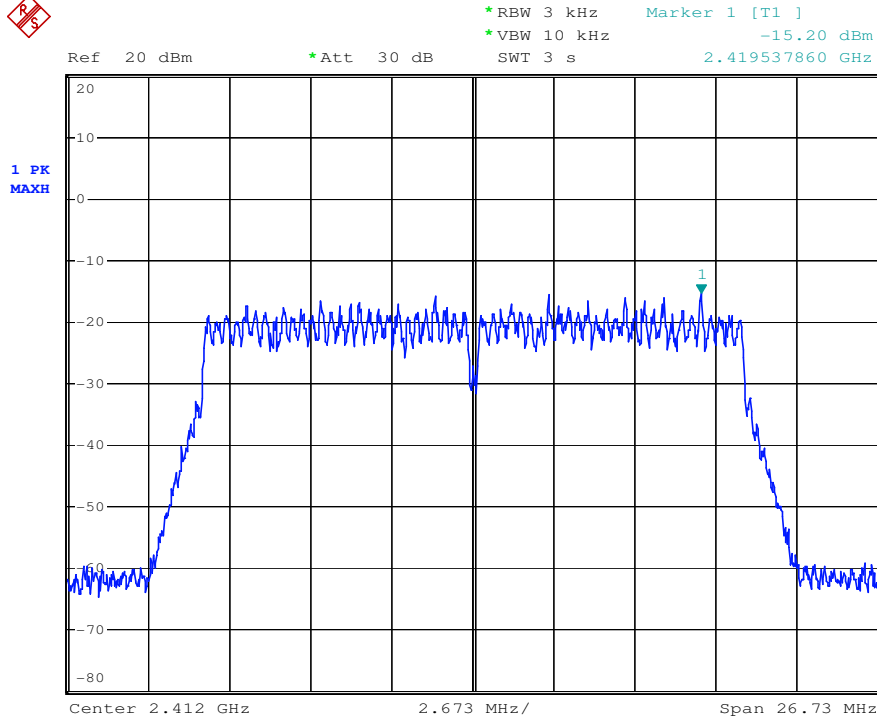
Channel: 2462





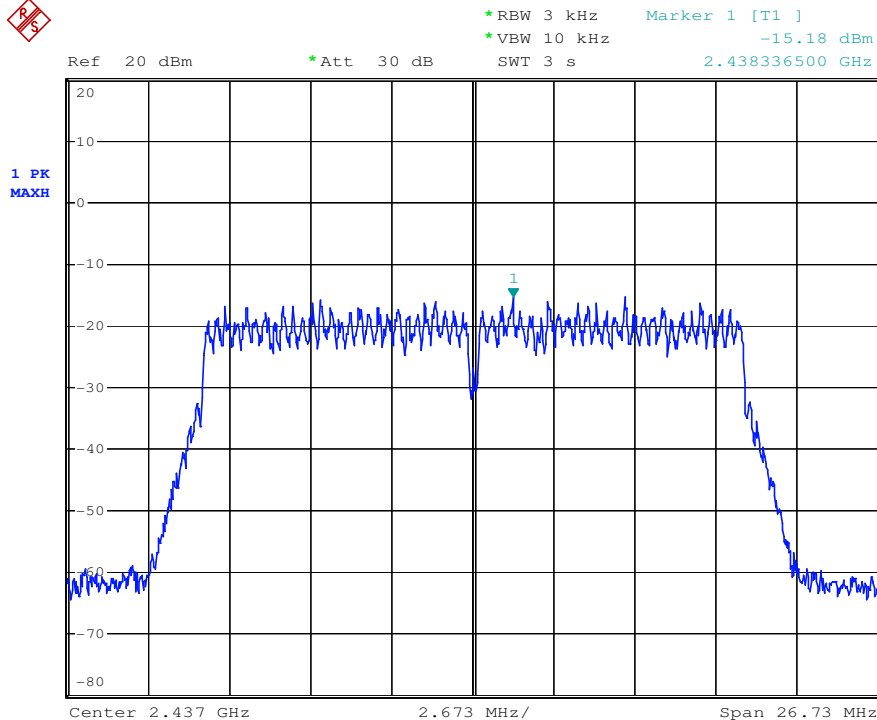
802.11 n (HT20)

Channel: 2412



802.11 n (HT20)

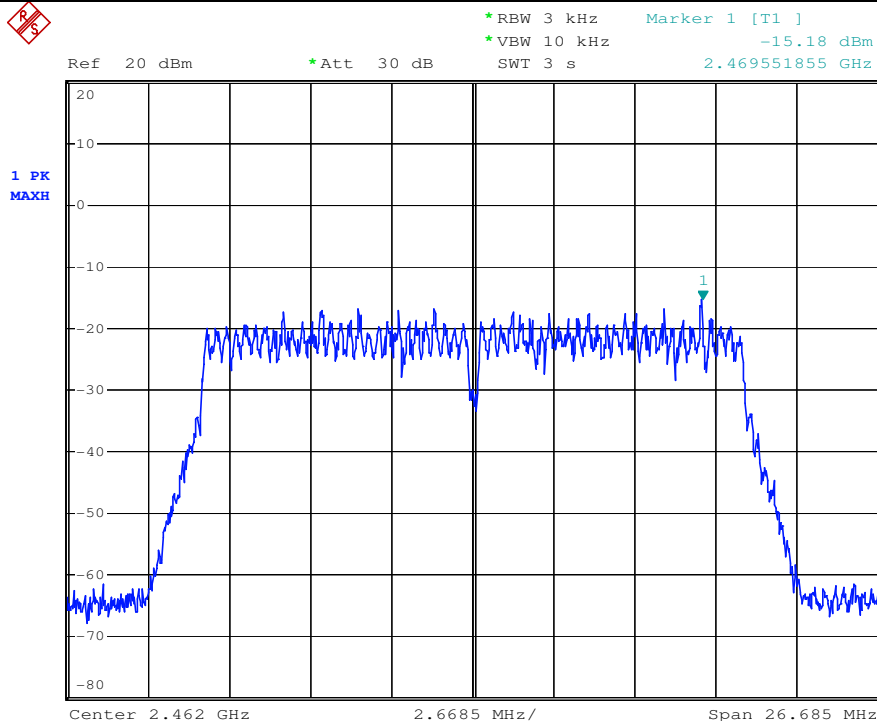
Channel: 2437





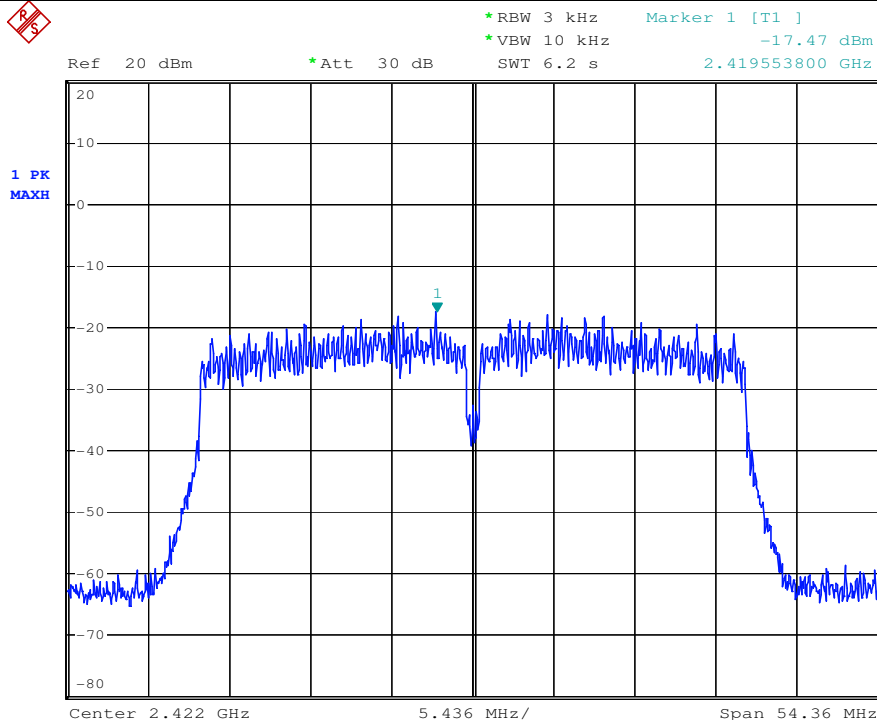
802.11 n (HT20)

Channel: 2462



802.11 n (HT40)

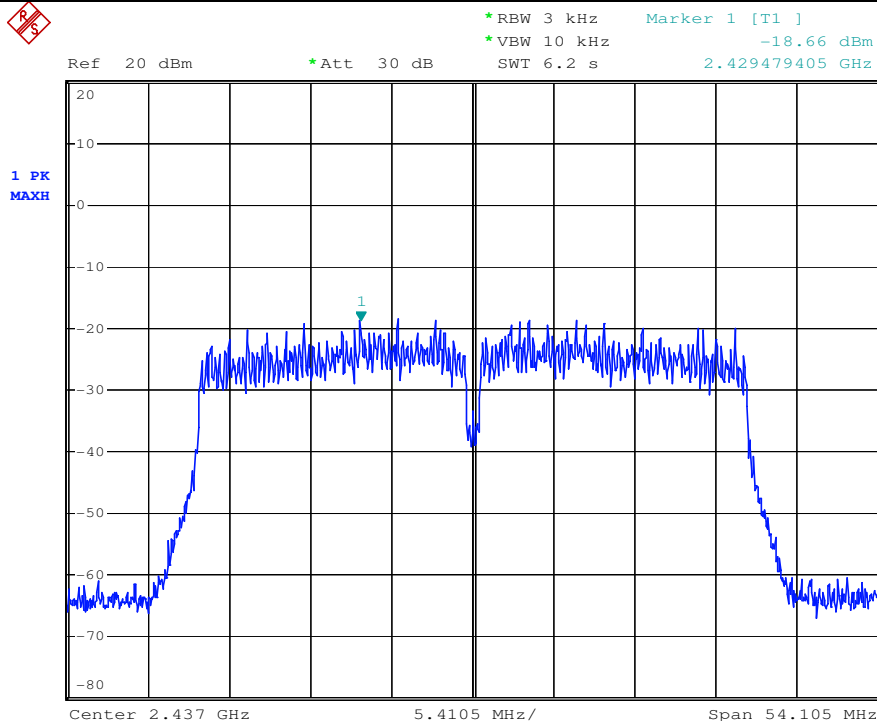
Channel: 2422





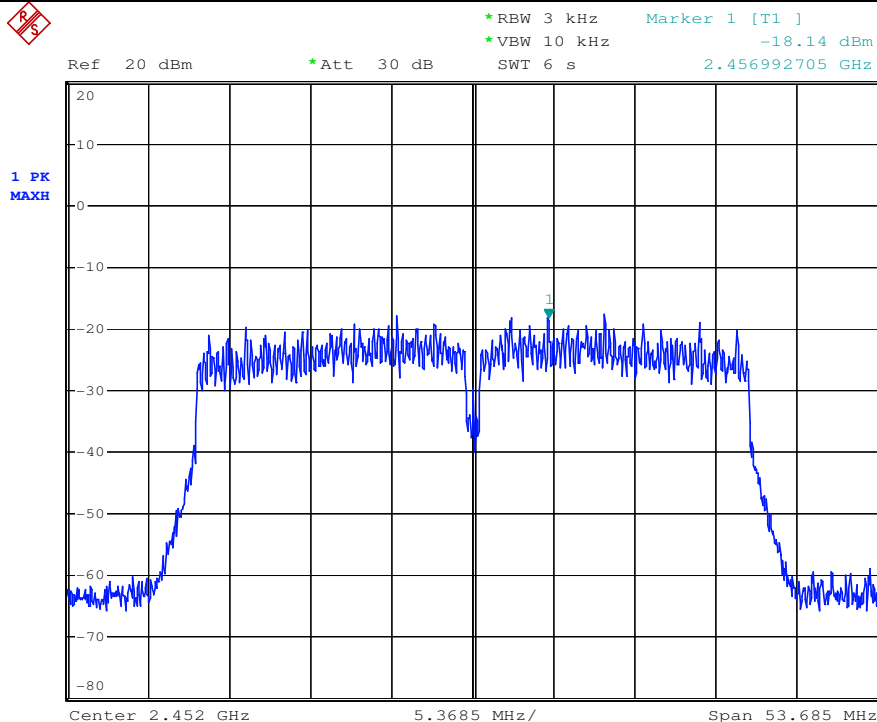
802.11 n (HT40)

Channel: 2437



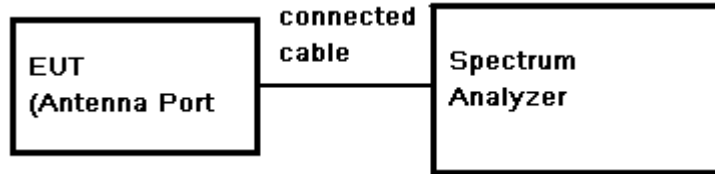
802.11 n (HT40)

Channel: 2452



7.7 Conducted Spurious Emissions and Band-edge

Test Configuration:



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 (Max. hold).

Limit:

- (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.

Test Result:

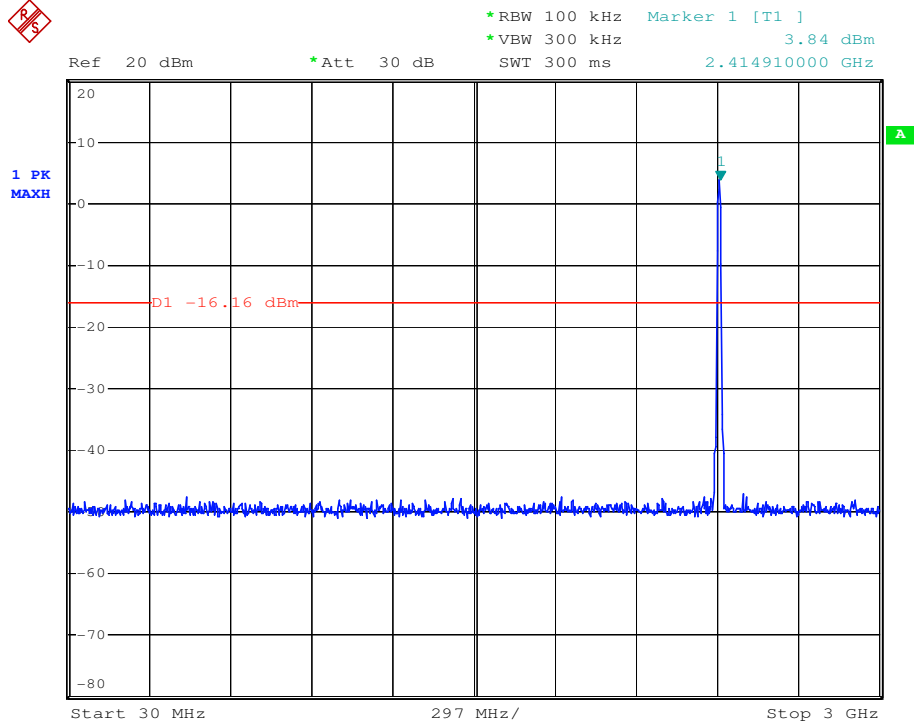
Pass

7.7.1 Conducted spurious emission

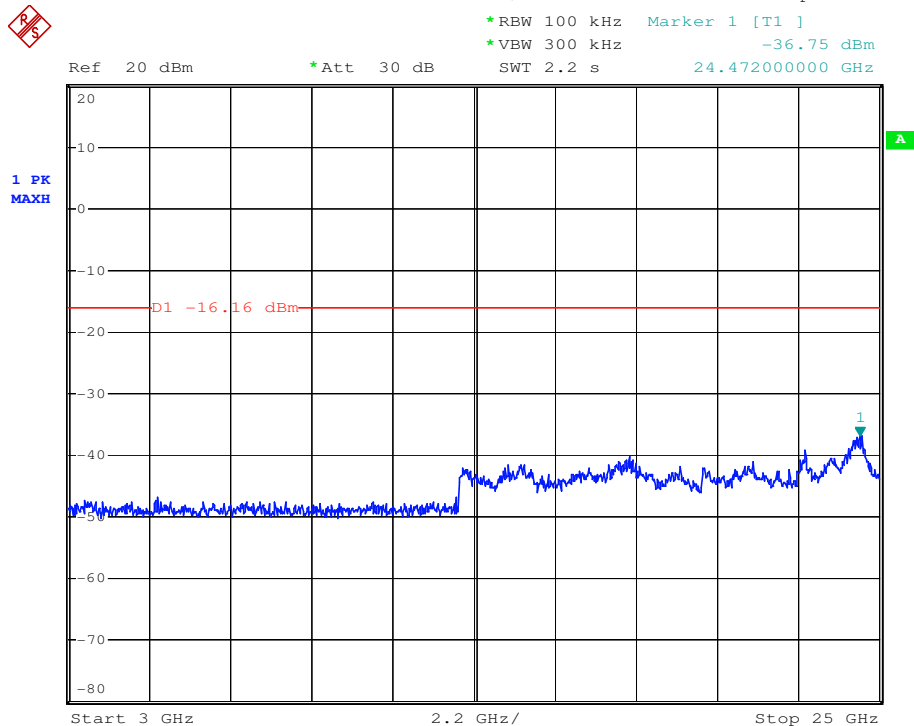
Test plot as follows:

802.11 b	Channel: 2412
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30MHz-3GHz:



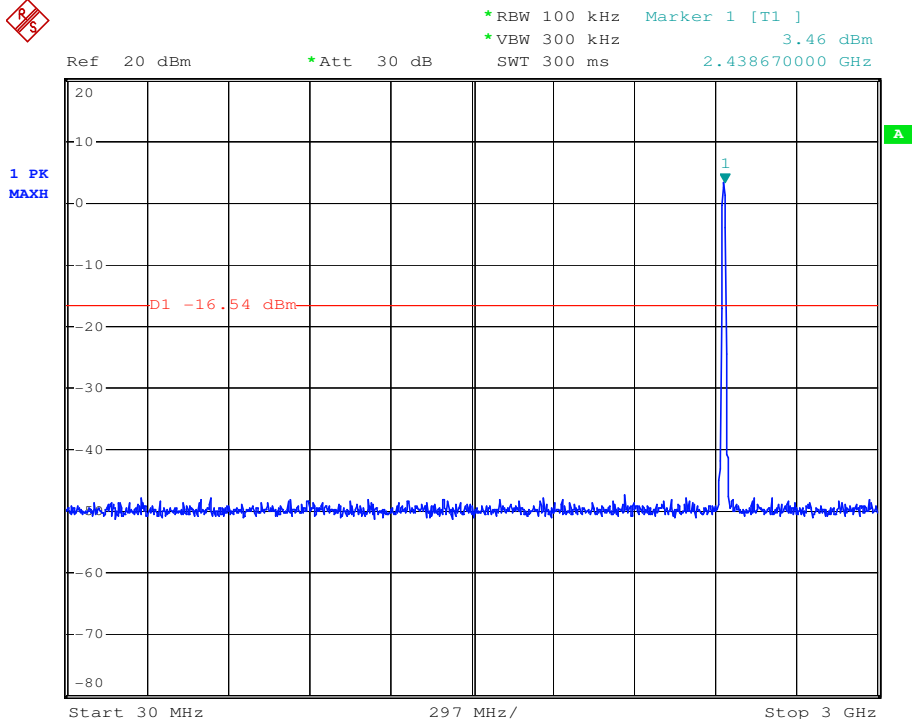
3GHz-25GHz:



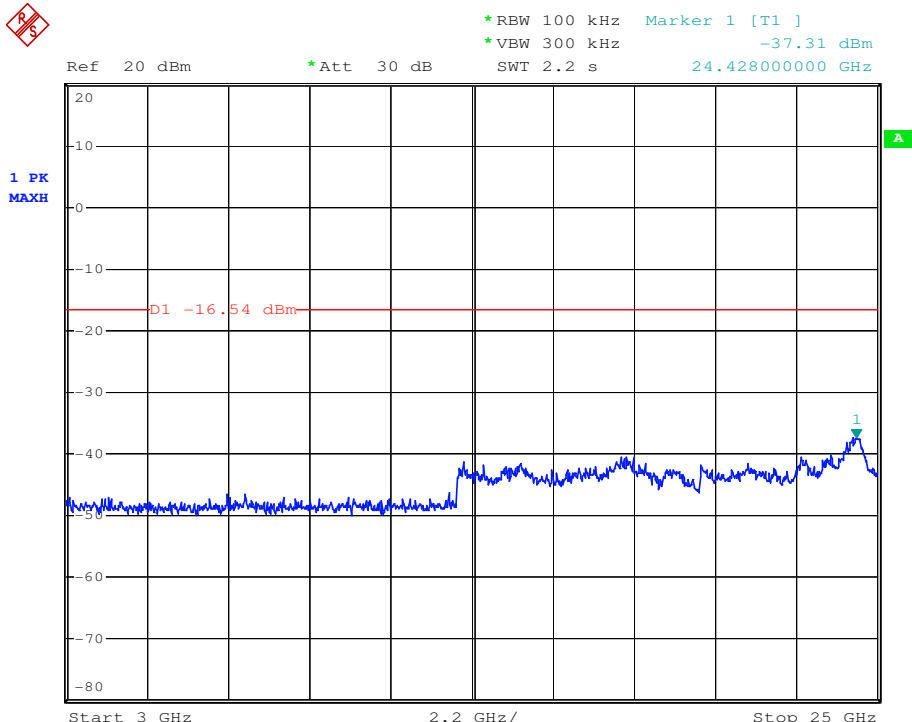
802.11 b

Channel: 2437

30MHz-3GHz:



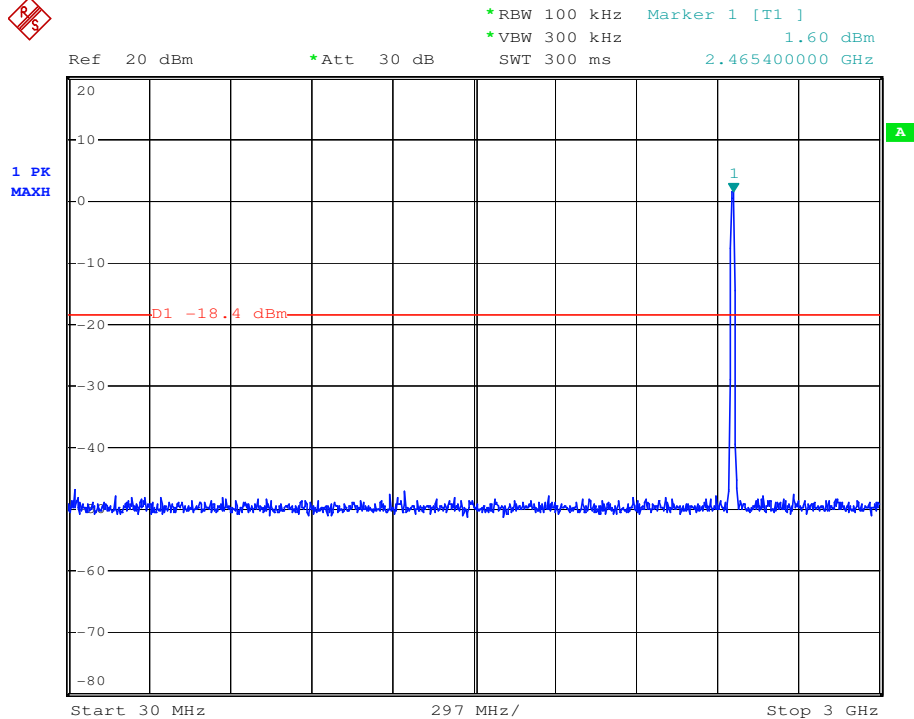
3GHz-25GHz:



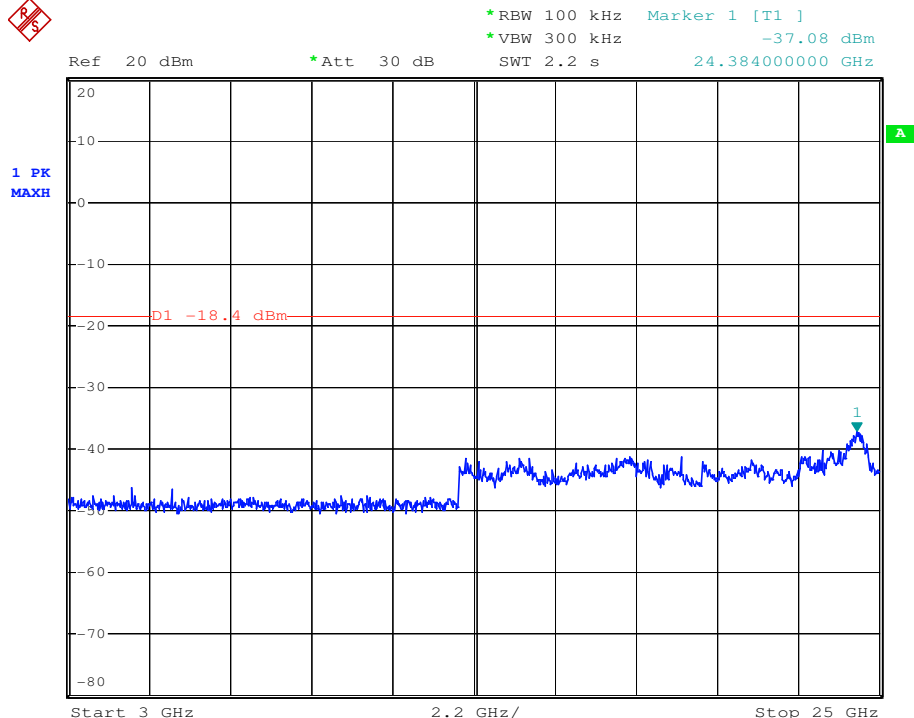
802.11 b

Channel: 2462

30MHz-3GHz:



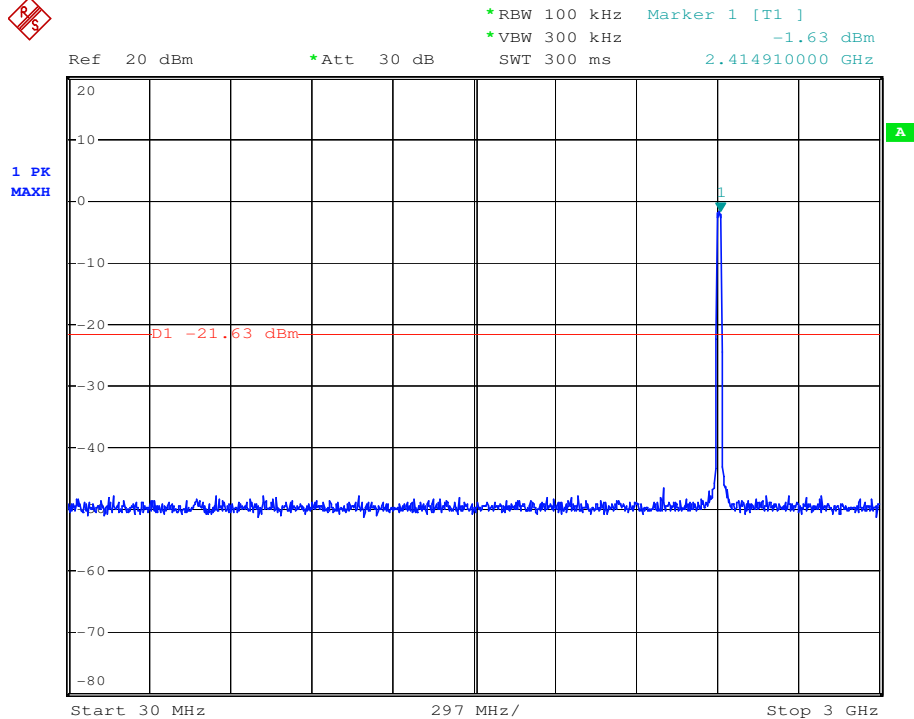
3GHz-25GHz:



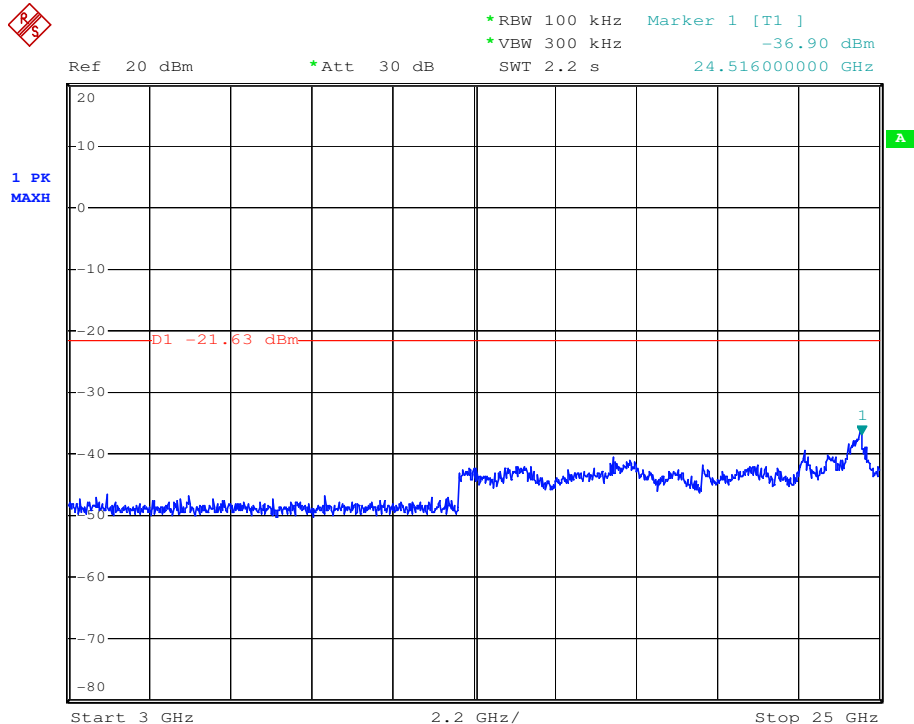
802.11 g

Channel: 2412

30MHz-3GHz:



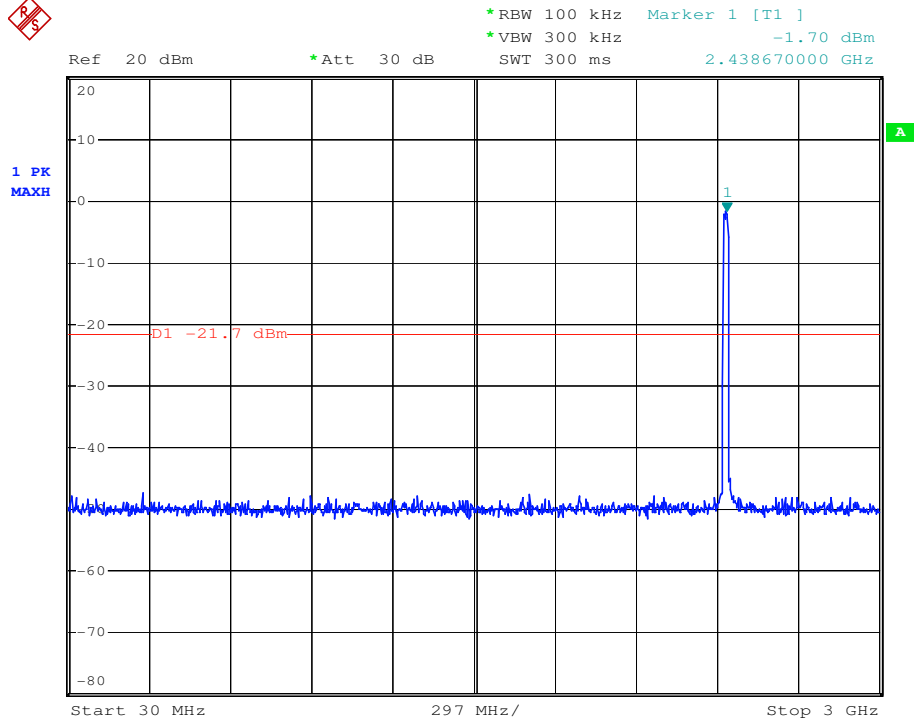
3GHz-25GHz:



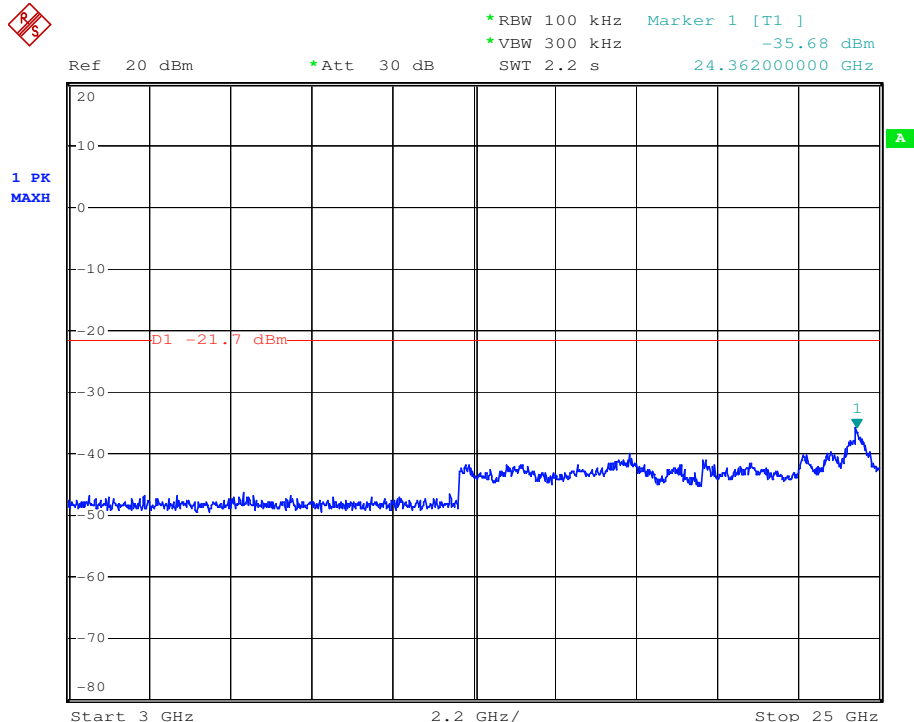
802.11 g

Channel: 2437

30MHz-3GHz:



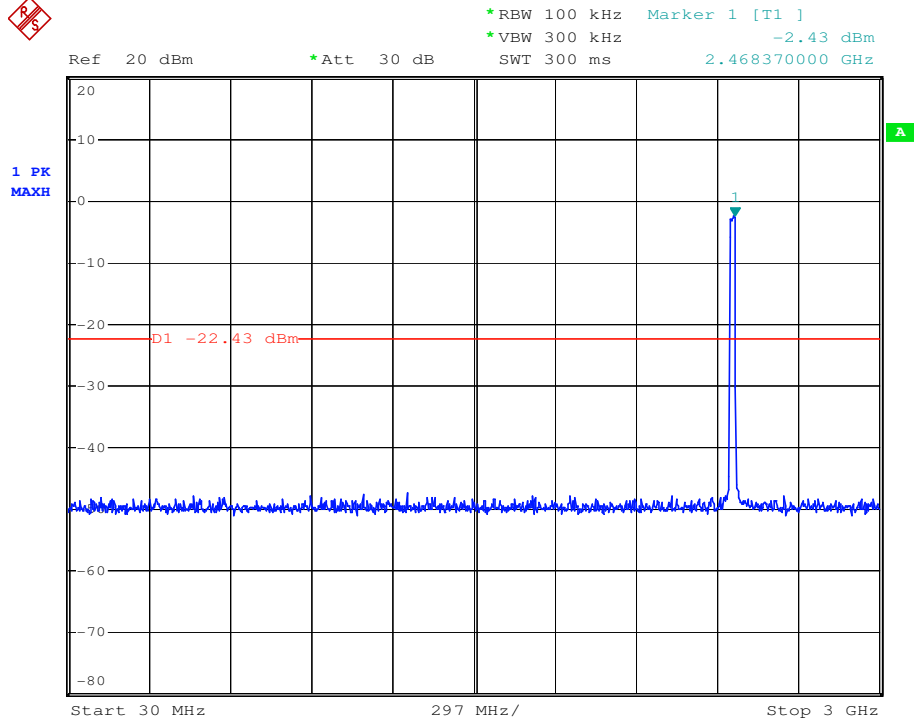
3GHz-25GHz:



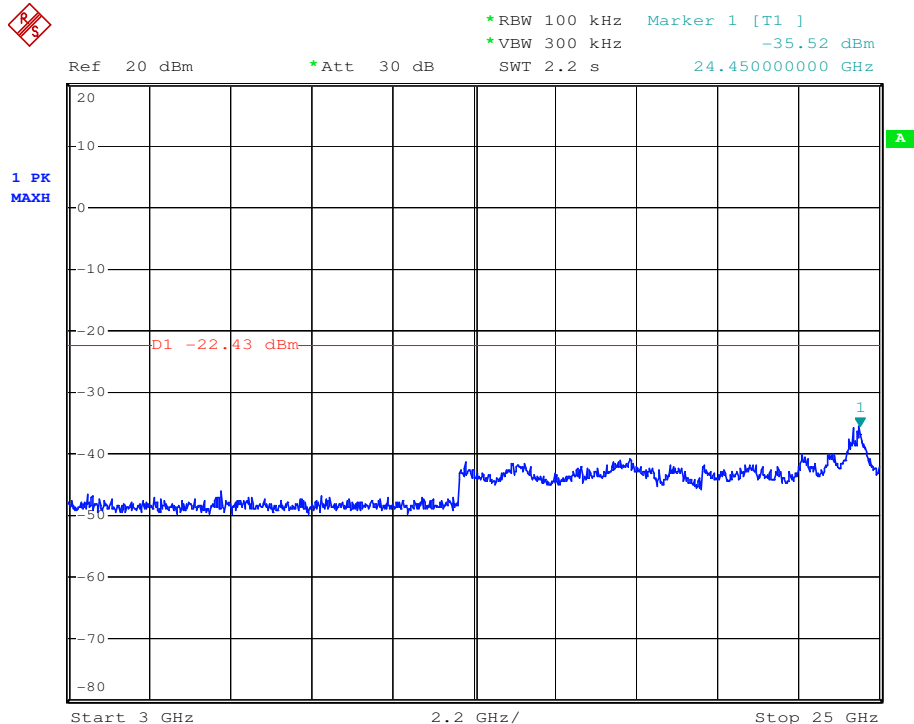
802.11 g

Channel: 2462

30MHz-3GHz:



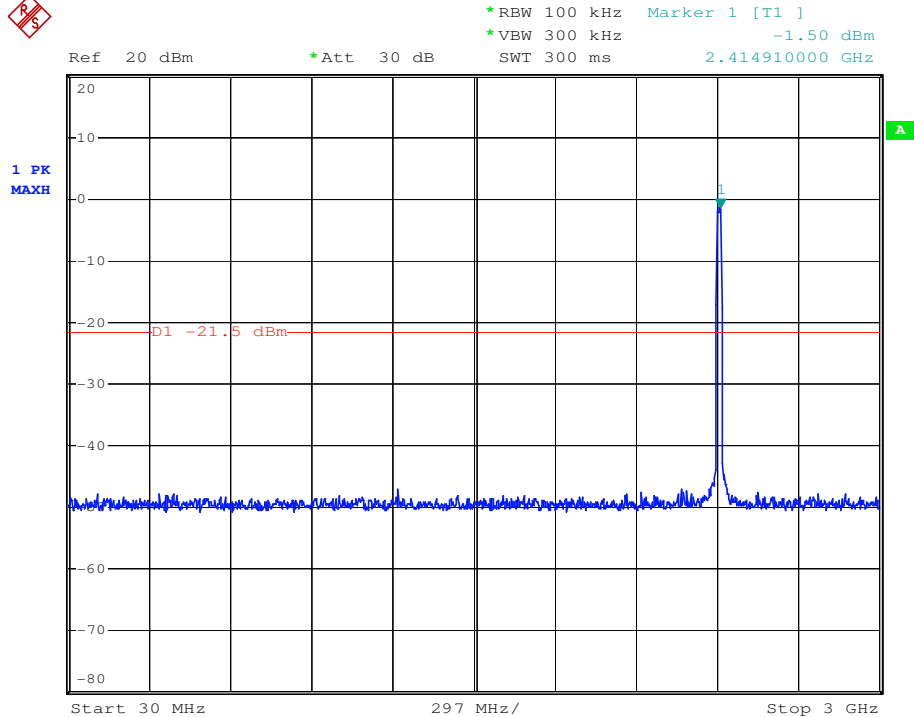
3GHz-25GHz:



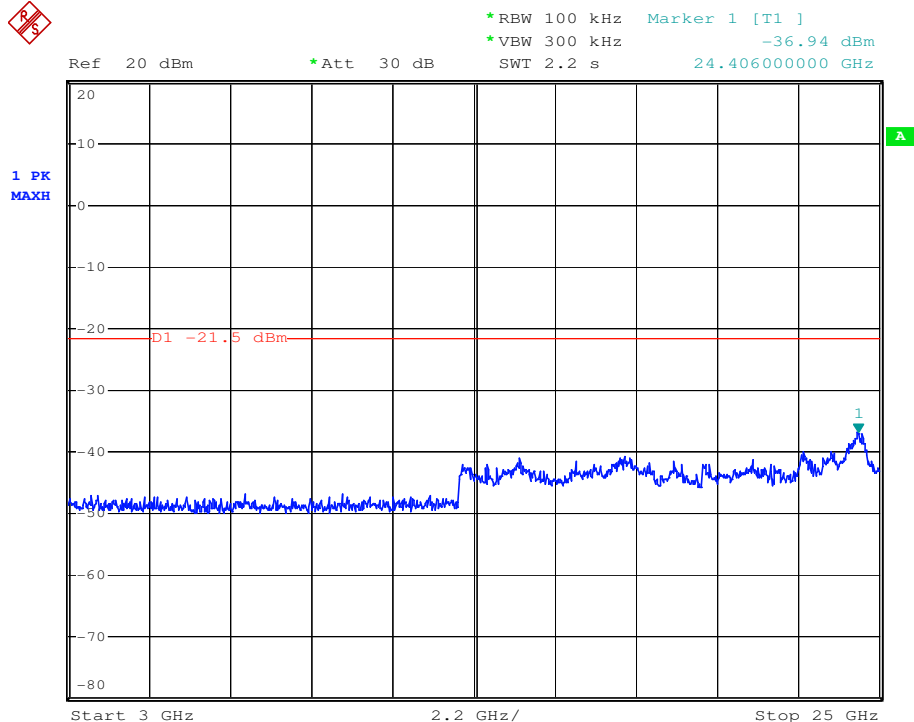
802.11 n(HT20)

Channel: 2412

30MHz-3GHz:



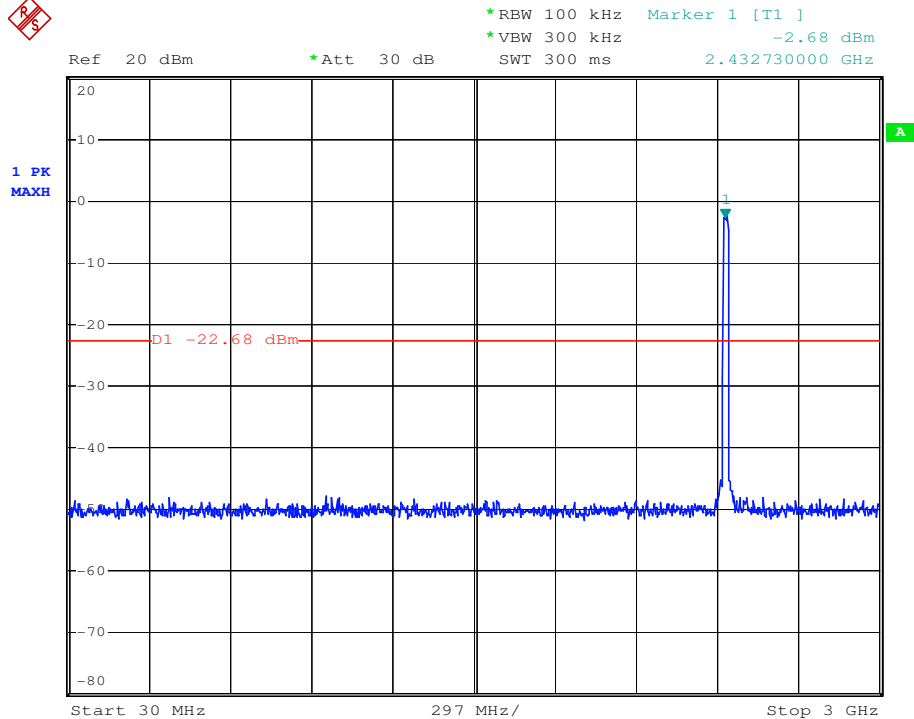
3GHz-25GHz:



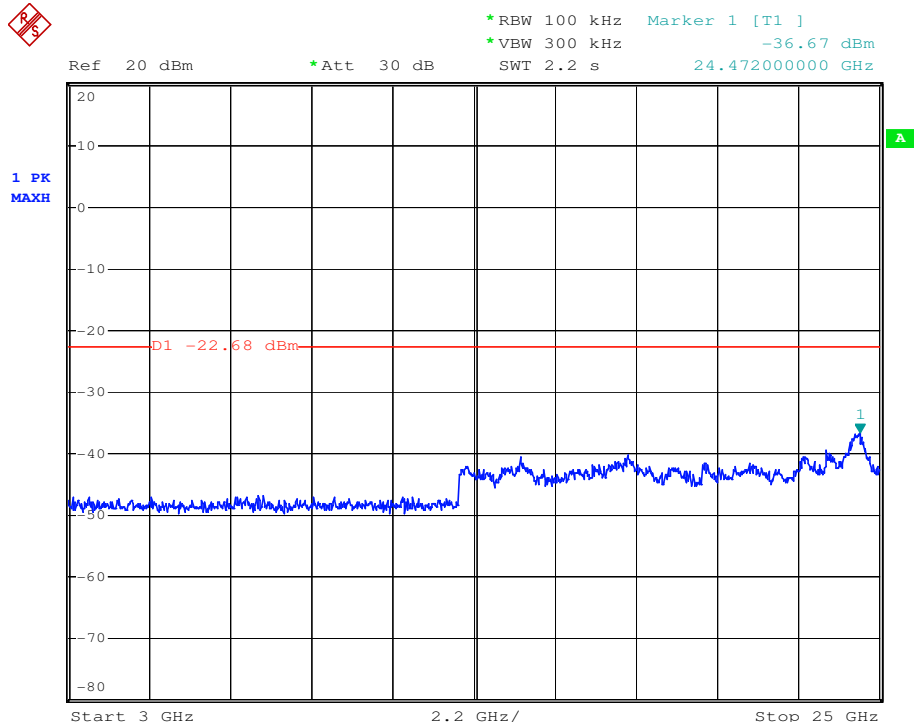
802.11 n(HT20)

Channel: 2437

30MHz-3GHz:



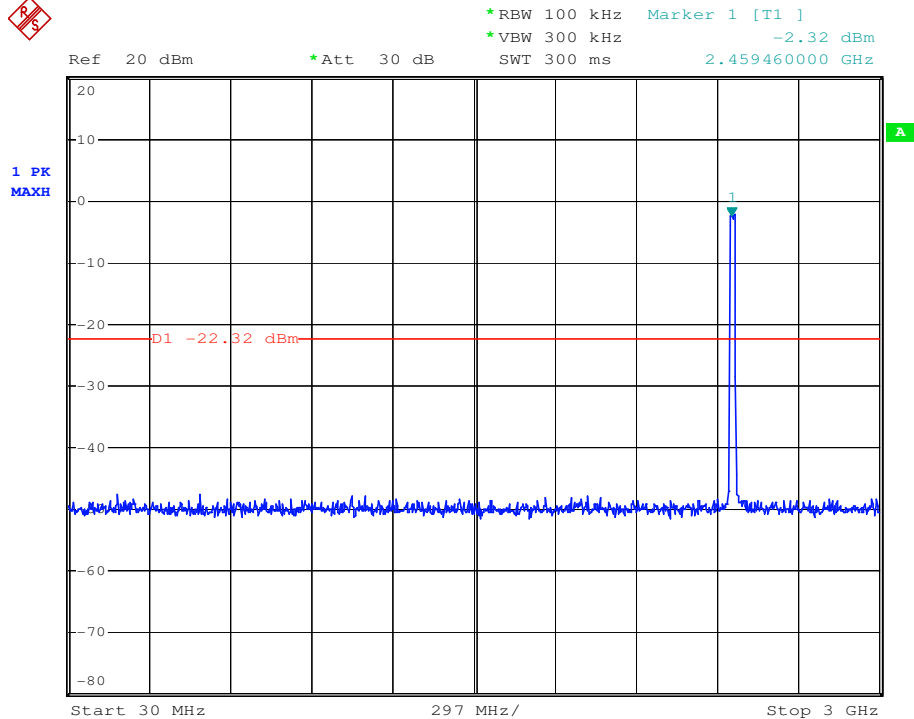
3GHz-25GHz:



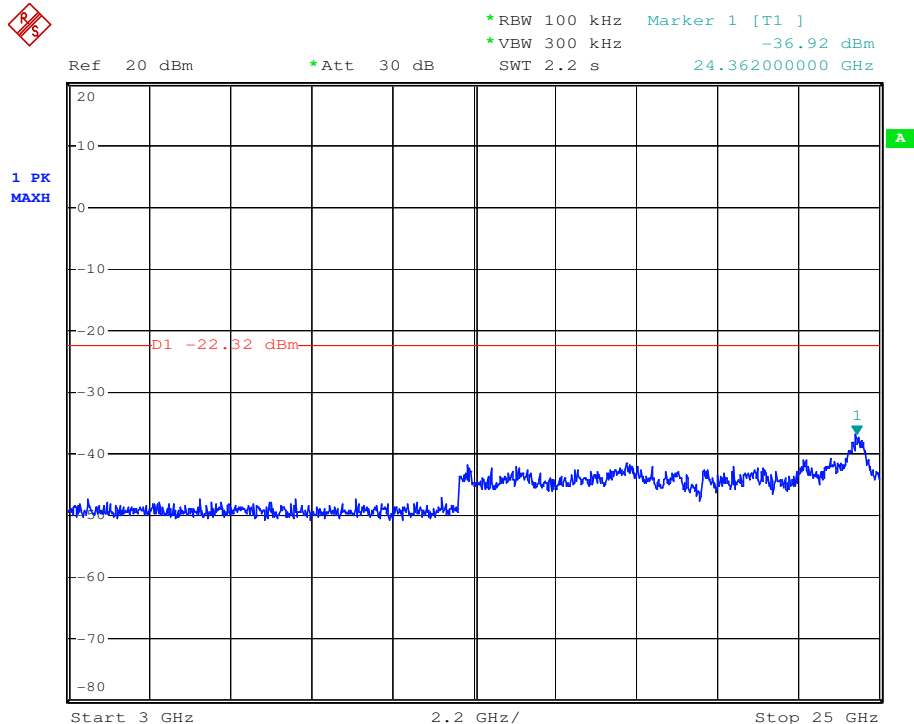
802.11 n(HT20)

Channel: 2462

30MHz-3GHz:



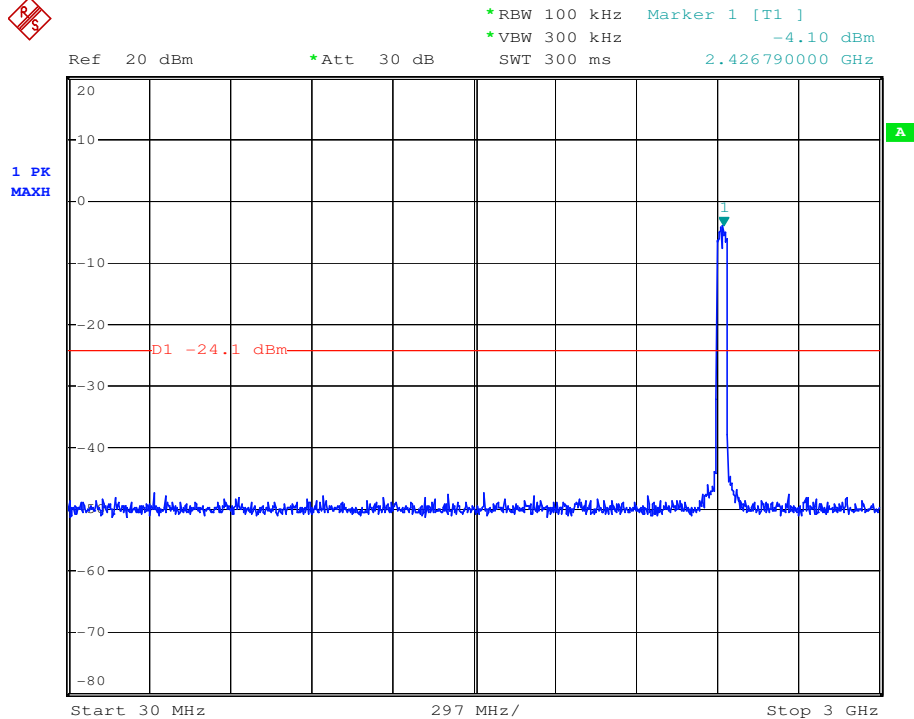
3GHz-25GHz:



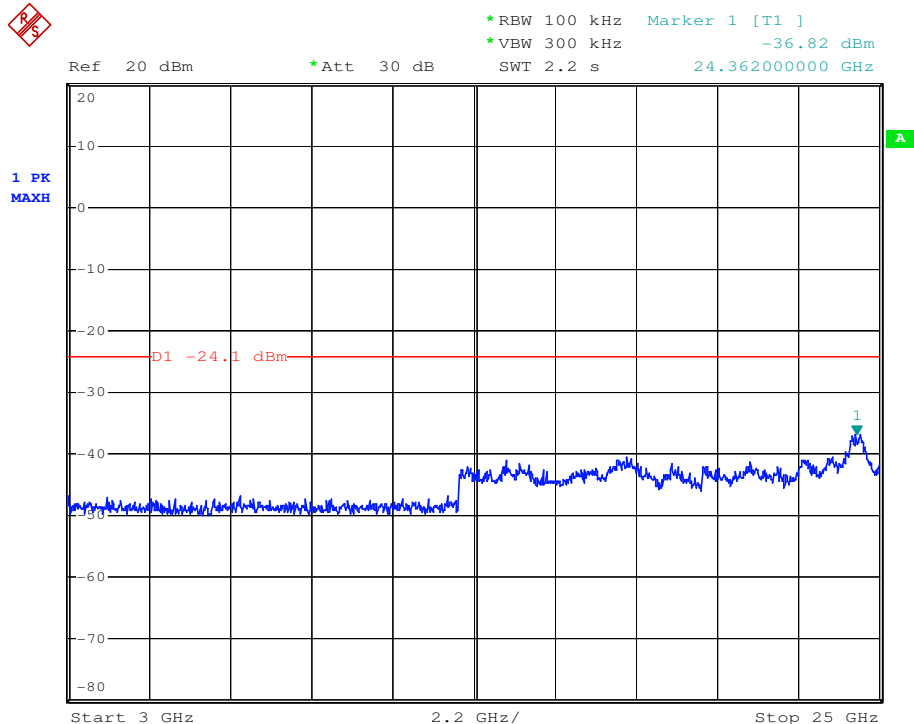
802.11 n(HT40)

Channel: 2422

30MHz-3GHz:



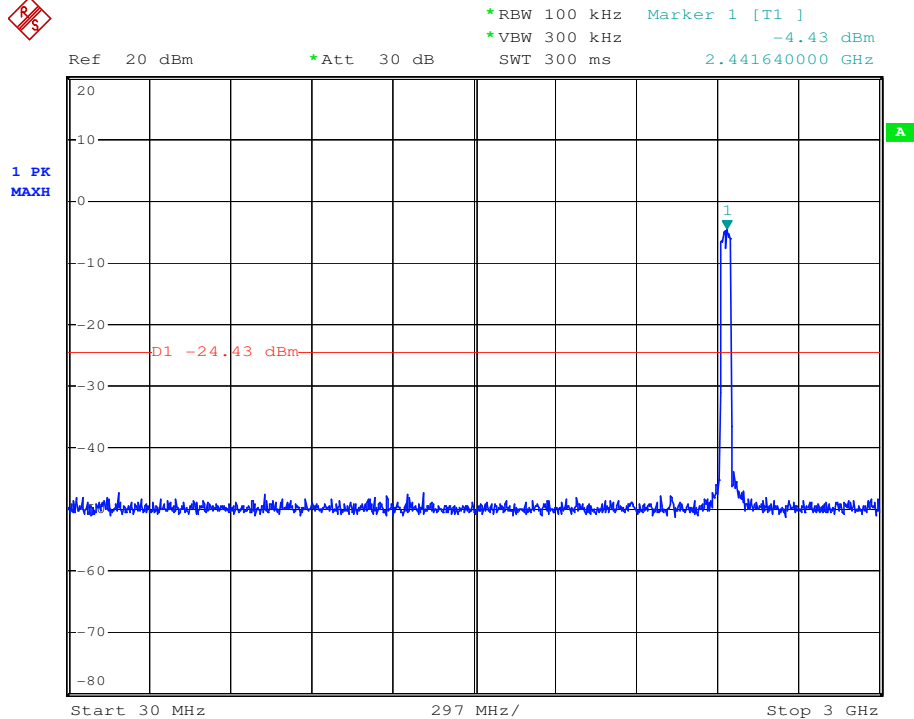
3GHz-25GHz:



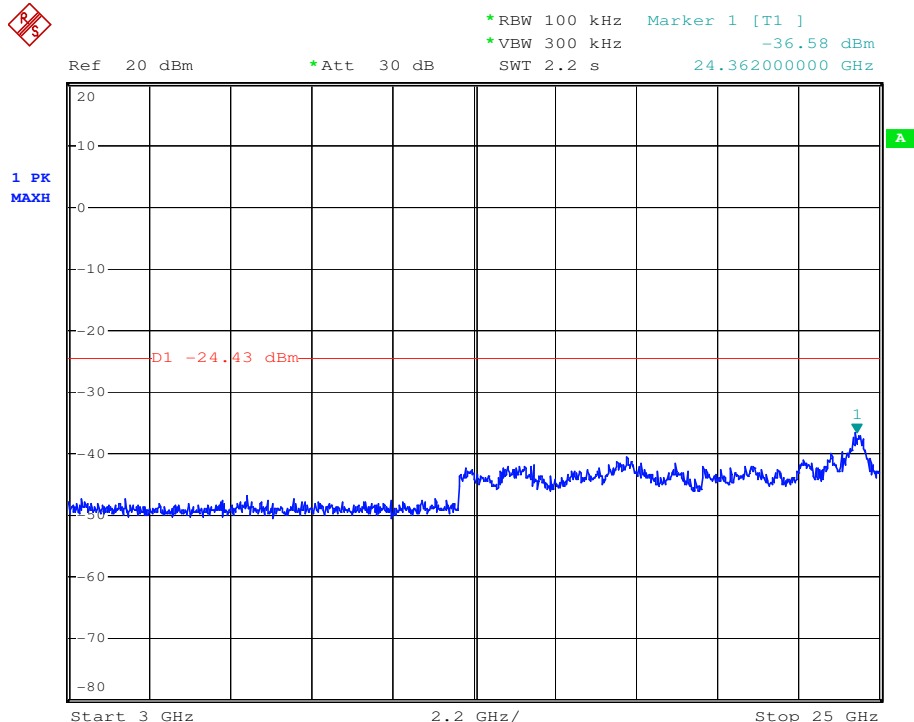
802.11 n(HT40)

Channel: 2437

30MHz-3GHz:



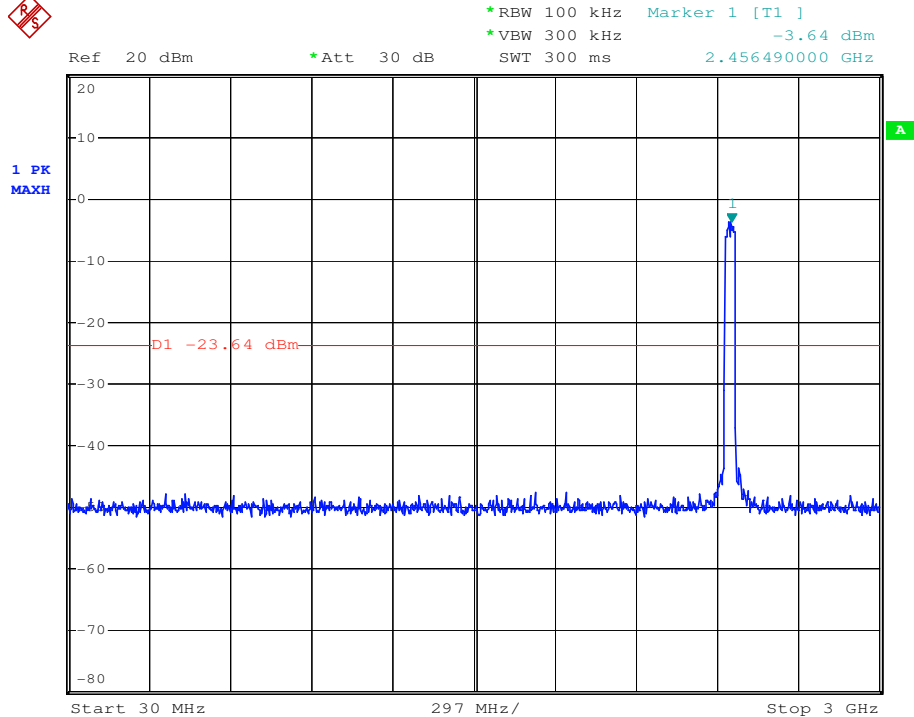
3GHz-25GHz:



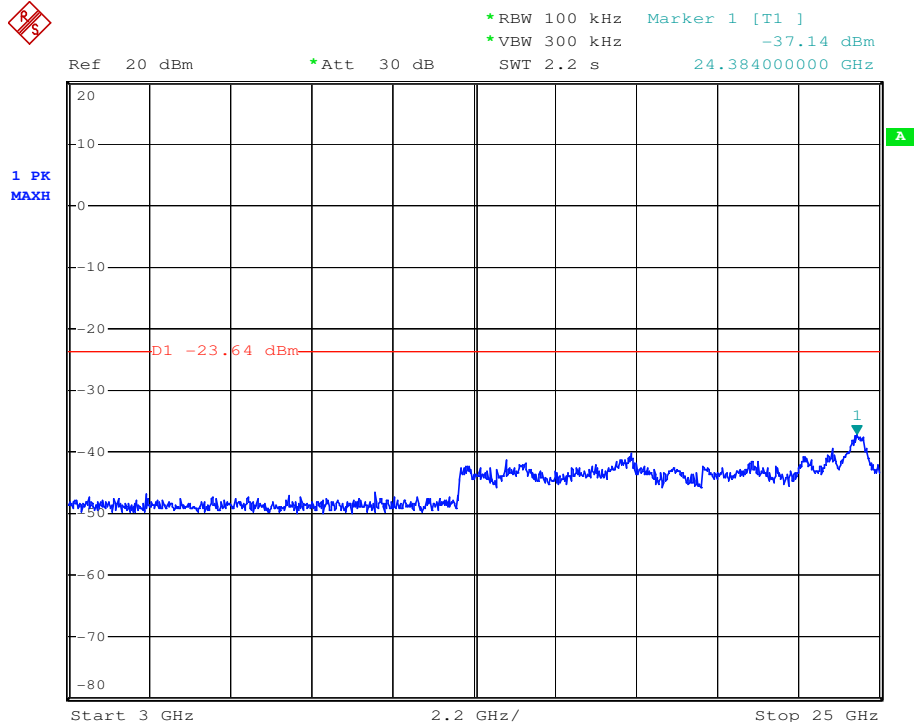
802.11 n(HT40)

Channel: 2452

30MHz-3GHz:



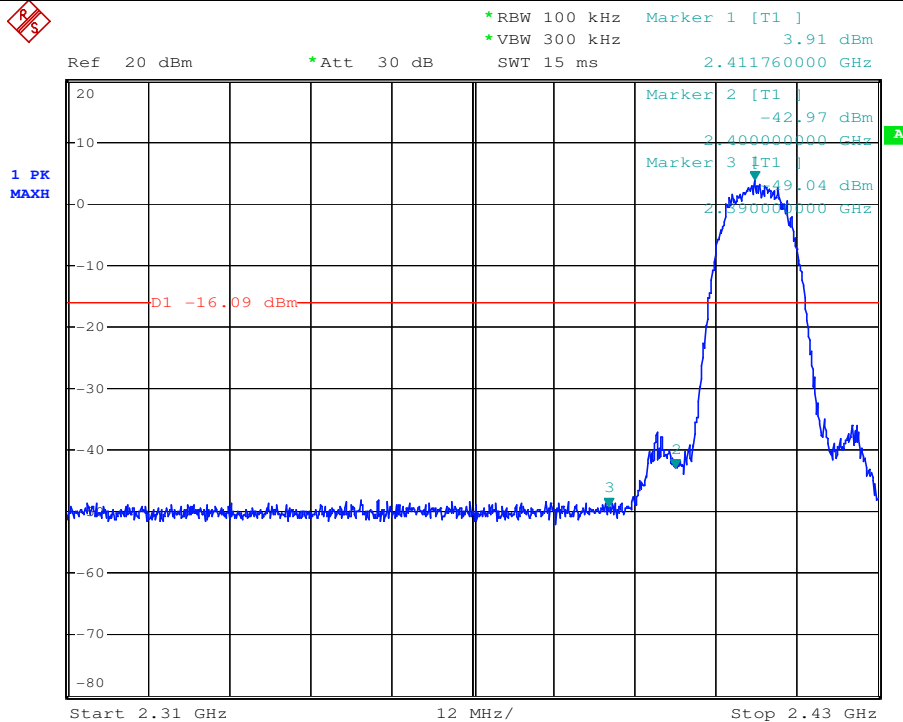
3GHz-25GHz:



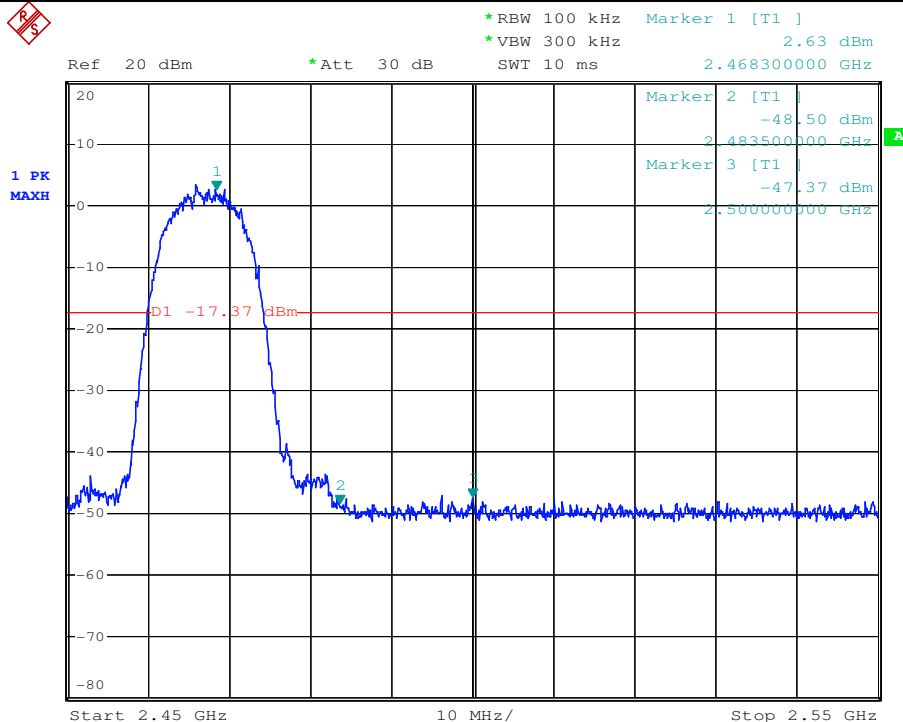
7.7.2 Conducted Band-edge

Test plot as follows:

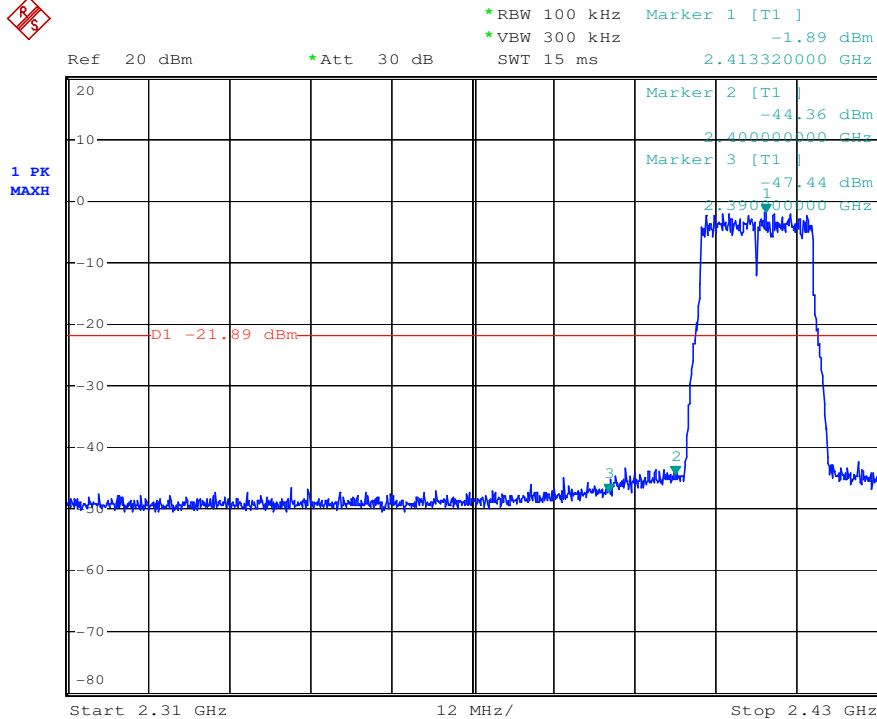
802.11 b	Channel: 2412
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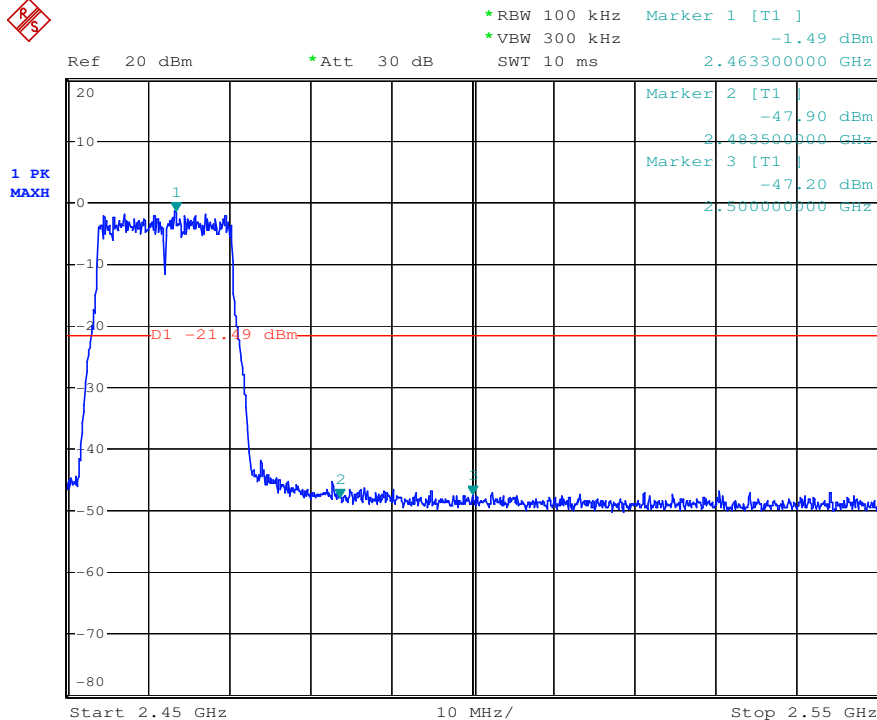
802.11 b	Channel: 2462
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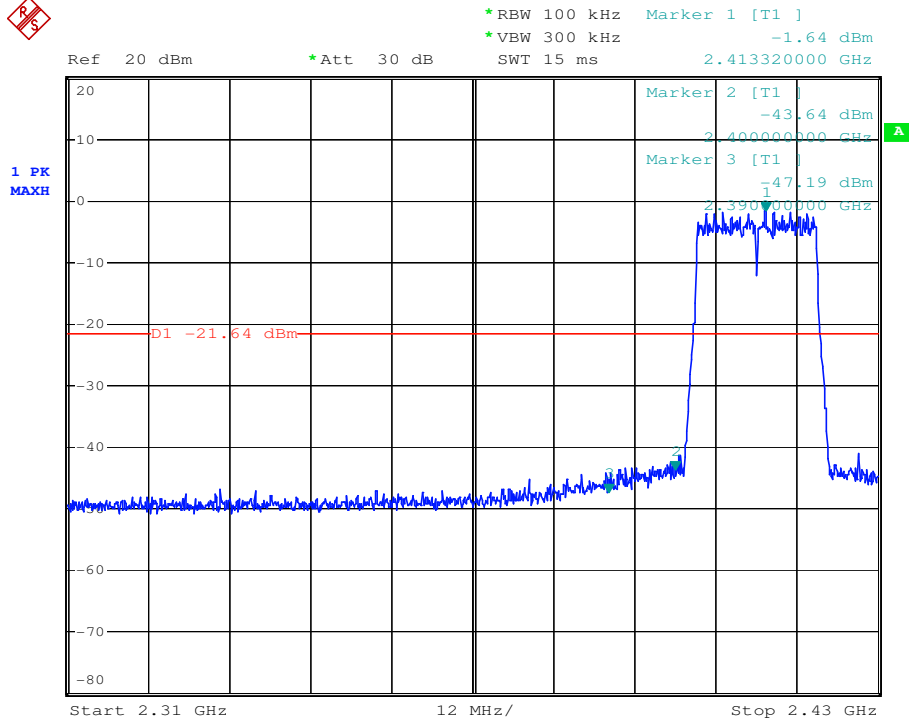
802.11 g	Channel: 2412
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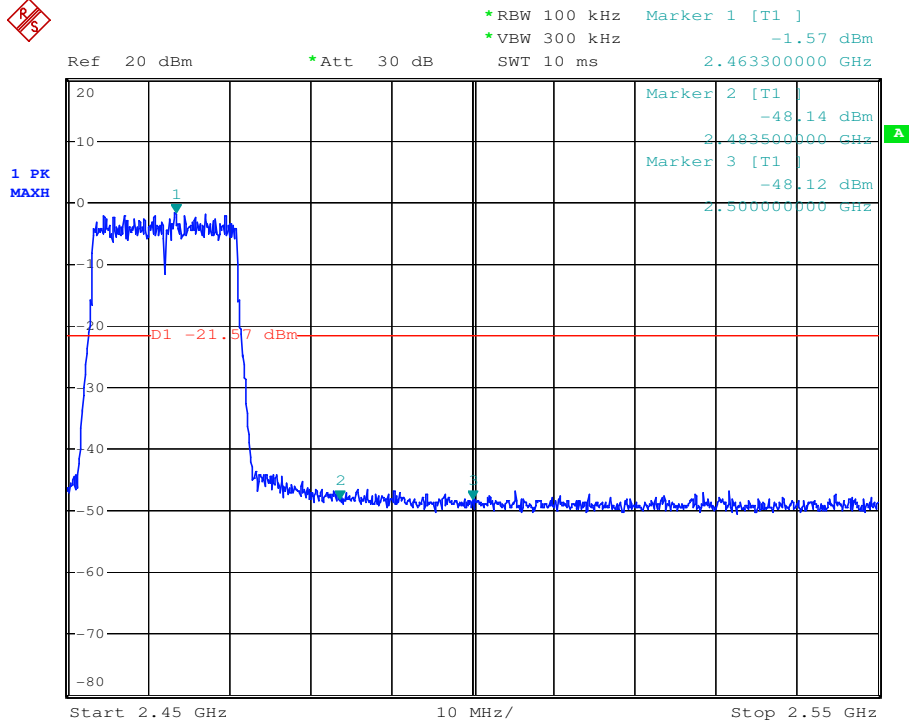
802.11 g	Channel: 2462
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802.11 n(HT20)	Channel: 2412
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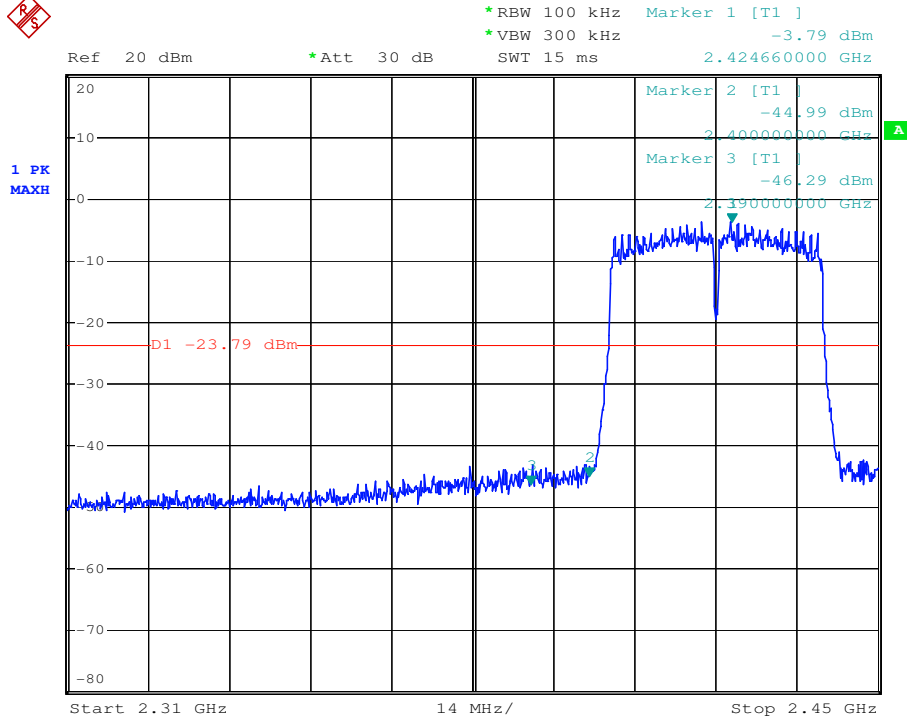
802.11 n(HT20)	Channel: 2462
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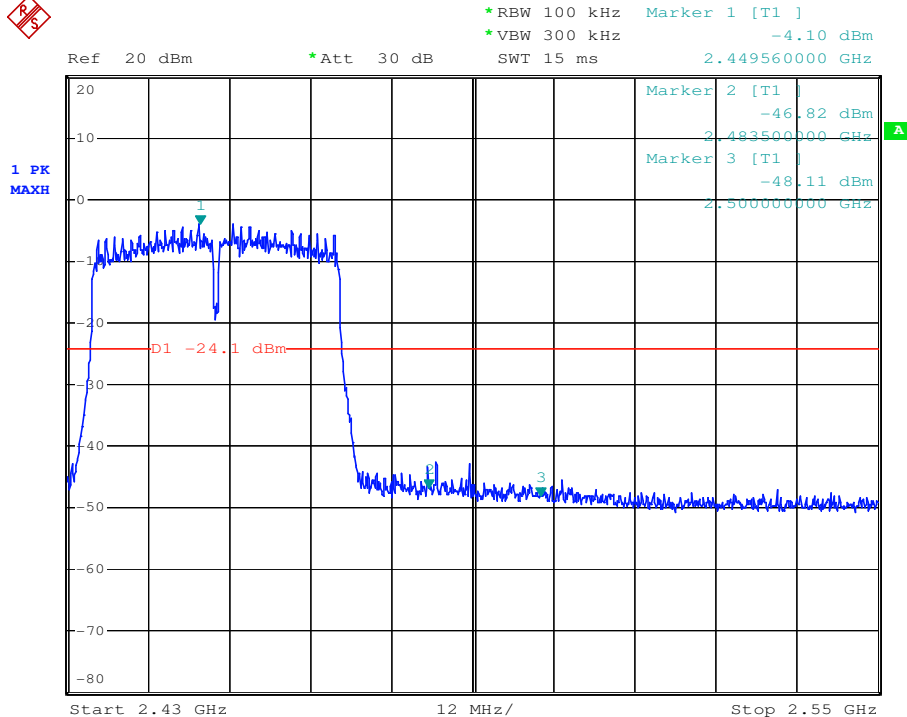
802.11 n(HT40)

Channel: 2422



802.11 n(HT40)

Channel: 2452



7.8 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz-30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Limit (dBuV/m)
0.009MHz-0.490MHz	128.5 ~ 93.8
0.490MHz-1.705MHz	73.8 ~63.0
1.705MHz-30MHz	69.5
30MHz-88MHz	40.0
88MHz-216MHz	43.5
216MHz-960MHz	46.0
960MHz-1GHz	54.0
Above 1GHz	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration:

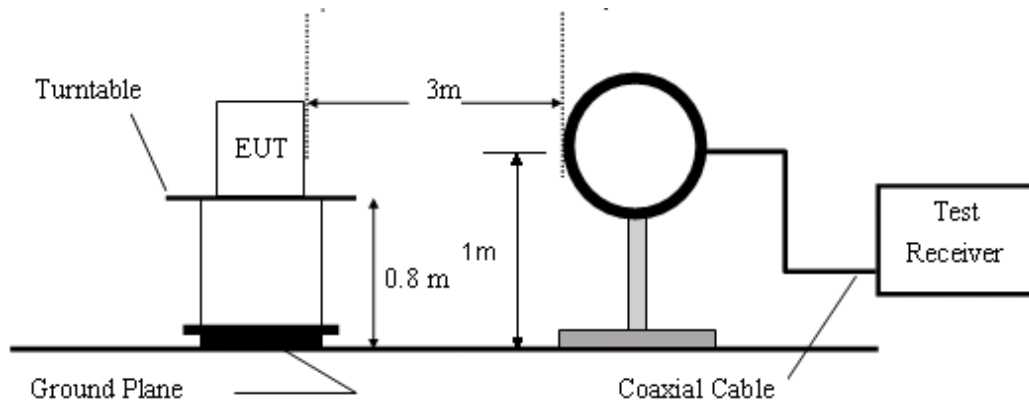


Figure1. Below 30MHz radiated emissions test configuration

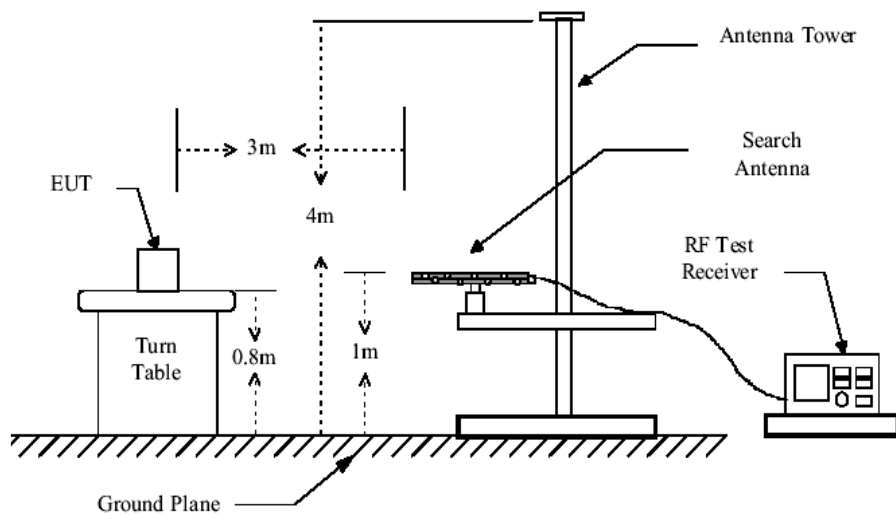


Figure2. 30MHz to 1GHz radiated emissions test configuration

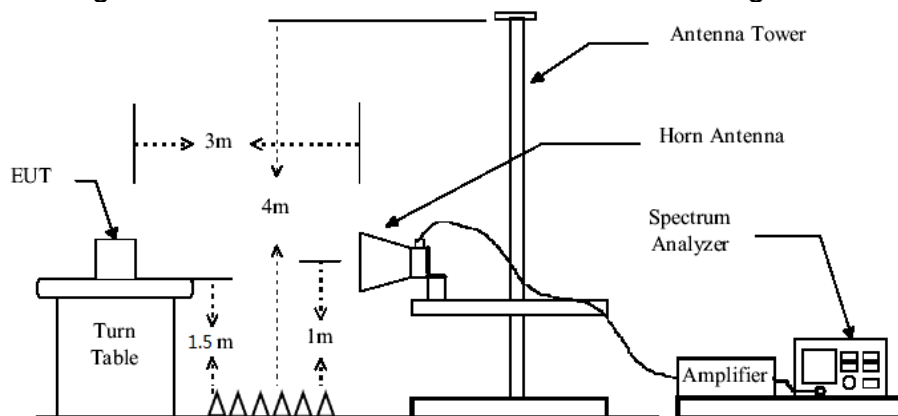


Figure3. Above 1GHz radiated emissions test configuration

Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
- 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 4) Pretest under all modes below 1GHz; choose the worst case mode (802.11b) record on the report.

Test Result:

Pass

7.8.1 Radiated Spurious Emissions

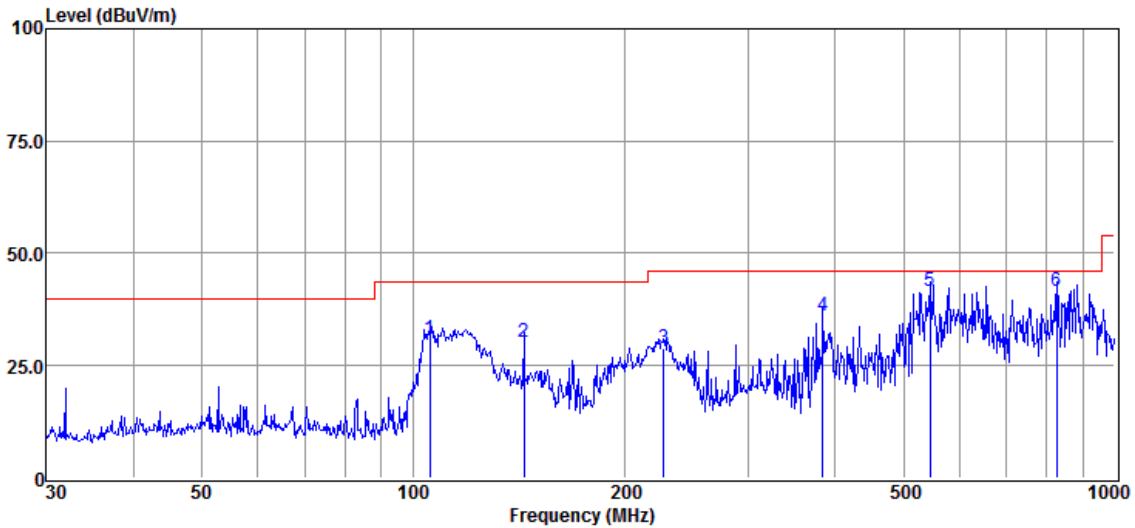
Below 30MHz: No spurious emissions were detected within 20dB of limit.

30MHz-1GHz:

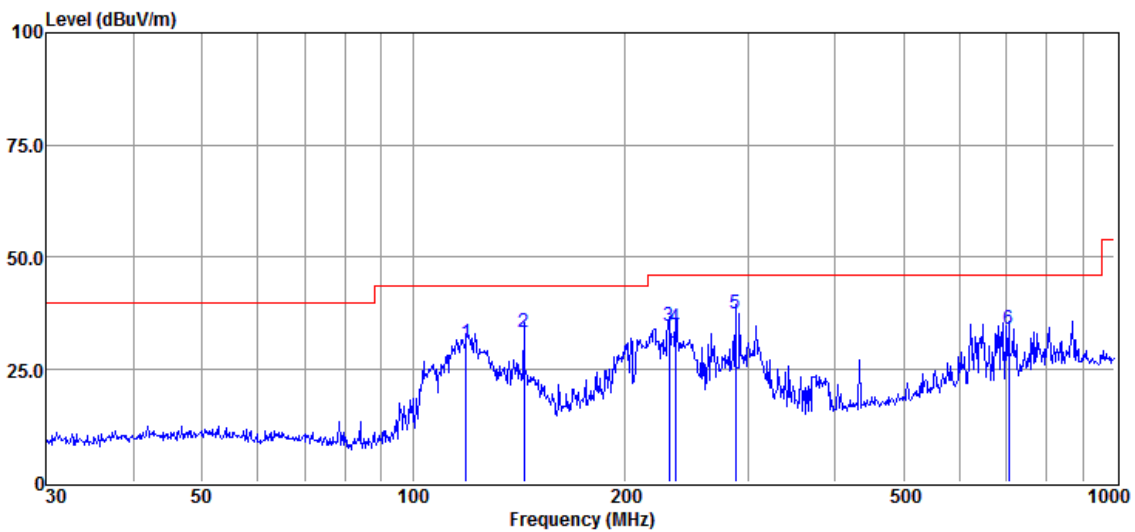
Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
1	119.02	61.69	11.73	43.55	1.21	31.08	43.50	-12.42	QP	Horizontal
2	143.83	62.89	12.50	43.50	1.34	33.23	43.50	-10.27	QP	Horizontal
3	231.72	66.09	10.18	43.38	1.76	34.65	46.00	-11.35	QP	Horizontal
4	236.65	65.21	10.73	43.37	1.78	34.35	46.00	-11.65	QP	Horizontal
5	287.99	66.37	12.44	43.32	2.02	37.51	46.00	-8.49	QP	Horizontal
6	706.70	52.58	21.00	43.09	3.38	33.87	46.00	-12.13	QP	Horizontal
1	105.64	63.41	10.17	43.58	1.10	31.10	43.50	-12.40	QP	Vertical
2	143.83	59.91	12.50	43.50	1.34	30.25	43.50	-13.25	QP	Vertical
3	227.69	60.60	10.02	43.38	1.75	28.99	46.00	-17.01	QP	Vertical
4	383.93	62.56	14.31	43.25	2.36	35.98	46.00	-10.02	QP	Vertical
5	545.18	62.79	19.01	43.16	2.87	41.51	46.00	-4.49	QP	Vertical
6	827.49	57.07	23.77	43.05	3.70	41.49	46.00	-4.51	QP	Vertical

Result Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

Test plot as below:
Vertical:



Horizontal:



Above 1GHz:

Test mode: 802.11b

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	36.14	6.4	42.54	54	-11.46	peak	Horizontal
2	7236	35.52	10.76	46.28	54	-7.72	peak	Horizontal
3	9648	33.72	14.37	48.09	54	-5.91	peak	Horizontal
4	4824	46.24	6.4	52.64	54	-1.36	peak	Vertical
5	7236	41.25	10.76	52.01	54	-1.99	peak	Vertical
6	9648	33.56	14.37	47.93	54	-6.07	peak	Vertical

Test mode: 802.11b

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	36.31	6.92	43.23	54	-10.77	peak	Horizontal
2	7311	35.28	11.08	46.36	54	-7.64	peak	Horizontal
3	9748	32.13	14.36	46.49	54	-7.51	peak	Horizontal
4	4874	45.9	6.92	52.82	54	-1.18	peak	Vertical
5	7311	37.21	11.08	48.29	54	-5.71	peak	Vertical
6	9748	32.44	14.36	46.8	54	-7.2	peak	Vertical

Test mode: 802.11b

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	38.03	7.31	45.34	54	-8.66	peak	Horizontal
2	7386	37.76	11.41	49.17	54	-4.83	peak	Horizontal
3	9848	33.91	14.38	48.29	54	-5.71	peak	Horizontal
4	4924	45.63	7.31	52.94	54	-1.06	peak	Vertical
5	7386	40.39	11.41	51.8	54	-2.2	peak	Vertical
6	9848	32.56	14.38	46.94	54	-7.06	peak	Vertical



Test mode: 802.11g

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	35.1	6.4	41.5	54	-12.5	peak	Horizontal
2	7236	36.29	10.76	47.05	54	-6.95	peak	Horizontal
3	9648	33.75	14.37	48.12	54	-5.88	peak	Horizontal
4	4824	45.87	6.4	52.27	54	-1.73	peak	Vertical
5	7236	41.16	10.76	51.92	54	-2.08	peak	Vertical
6	9648	32.41	14.37	46.78	54	-7.22	peak	Vertical

Test mode: 802.11g

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	36.21	6.92	43.13	54	-10.87	peak	Horizontal
2	7311	35.99	11.08	47.07	54	-6.93	peak	Horizontal
3	9748	31.45	14.36	45.81	54	-8.19	peak	Horizontal
4	4874	45.61	6.92	52.53	54	-1.47	peak	Vertical
5	7311	39.57	11.08	50.65	54	-3.35	peak	Vertical
6	9748	34.79	14.36	49.15	54	-4.85	peak	Vertical

Test mode: 802.11g

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	36.78	7.31	44.09	54	-9.91	peak	Horizontal
2	7386	36.19	11.41	47.6	54	-6.4	peak	Horizontal
3	9848	33.18	14.38	47.56	54	-6.44	peak	Horizontal
4	4924	45.66	7.31	52.97	54	-1.03	peak	Vertical
5	7386	37.92	11.41	49.33	54	-4.67	peak	Vertical
6	9848	31.67	14.38	46.05	54	-7.95	peak	Vertical



Test mode: 802.11 n(HT20)

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	36	6.4	42.4	54	-11.6	peak	Horizontal
2	7236	36.69	10.76	47.45	54	-6.55	peak	Horizontal
3	9648	32.28	14.37	46.65	54	-7.35	peak	Horizontal
4	4824	45.54	6.4	51.94	54	-2.06	peak	Vertical
5	7236	42.13	10.76	52.89	54	-1.11	peak	Vertical
6	9648	32.57	14.37	46.94	54	-7.06	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	35.07	6.92	41.99	54	-12.01	peak	Horizontal
2	7311	34.87	11.08	45.95	54	-8.05	peak	Horizontal
3	9748	31.84	14.36	46.2	54	-7.8	peak	Horizontal
4	4874	45.94	6.92	52.86	54	-1.14	peak	Vertical
5	7311	40.03	11.08	51.11	54	-2.89	peak	Vertical
6	9748	36.28	14.36	50.64	54	-3.36	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	37.43	7.31	44.74	54	-9.26	peak	Horizontal
2	7386	35.96	11.41	47.37	54	-6.63	peak	Horizontal
3	9848	32.4	14.38	46.78	54	-7.22	peak	Horizontal
4	4924	45.41	7.31	52.72	54	-1.28	peak	Vertical
5	7386	37.07	11.41	48.48	54	-5.52	peak	Vertical
6	9848	31.65	14.38	46.03	54	-7.97	peak	Vertical

Test mode: 802.11 n(HT40)

Channel: 2422

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	35.71	6.6	42.31	54	-11.69	peak	Horizontal
2	7266	36.31	10.89	47.2	54	-6.8	peak	Horizontal
3	9688	32.73	14.35	47.08	54	-6.92	peak	Horizontal
4	4844	45.03	6.6	51.63	54	-2.37	peak	Vertical
5	7266	39.86	10.89	50.75	54	-3.25	peak	Vertical
6	9688	32.55	14.35	46.9	54	-7.1	peak	Vertical

Test mode: 802.11 n(HT40)

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	35.58	6.92	42.5	54	-11.5	peak	Horizontal
2	7311	35.2	11.08	46.28	54	-7.72	peak	Horizontal
3	9748	32.26	14.36	46.62	54	-7.38	peak	Horizontal
4	4874	45.66	6.92	52.58	54	-1.42	peak	Vertical
5	7311	40.73	11.08	51.81	54	-2.19	peak	Vertical
6	9748	34.04	14.36	48.4	54	-5.6	peak	Vertical

Test mode: 802.11 n(HT40)

Channel: 2452

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	36.33	7.22	43.55	54	-10.45	peak	Horizontal
2	7356	36.35	11.28	47.63	54	-6.37	peak	Horizontal
3	9808	34.2	14.37	48.57	54	-5.43	peak	Horizontal
4	4904	43.88	7.22	51.1	54	-2.9	peak	Vertical
5	7356	37.37	11.28	48.65	54	-5.35	peak	Vertical
6	9808	33.7	14.37	48.07	54	-5.93	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

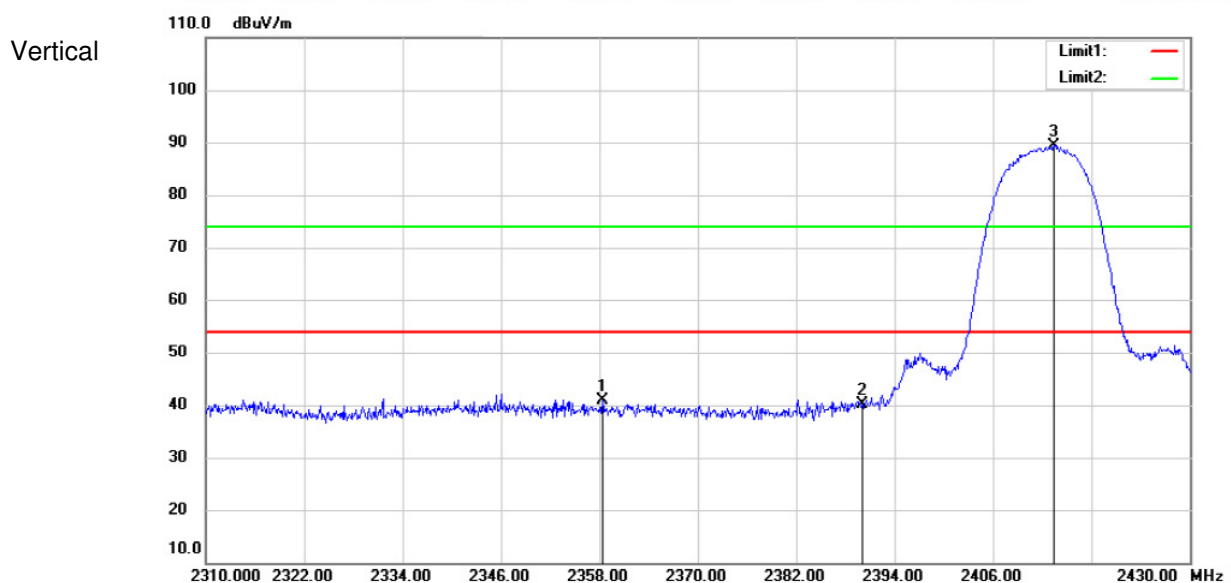
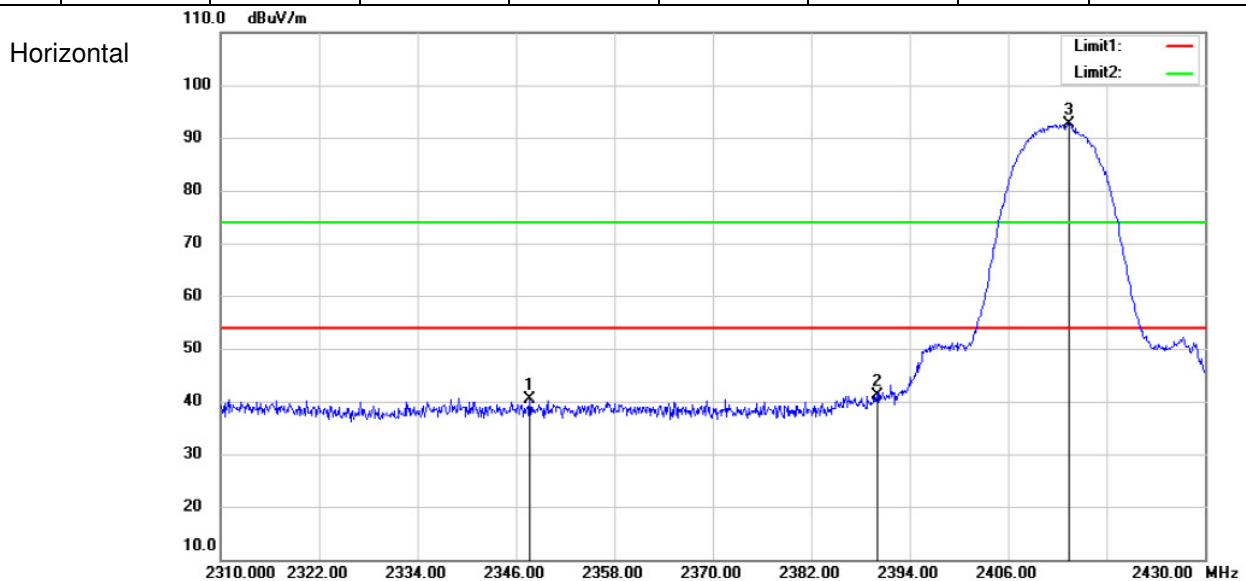
3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

7.8.2 Radiated Band edge

Test Mode: 802.11b

Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2347.68	44.02	-3.76	40.26	54	-13.74	Peak	Horizontal
2	2390	45.02	-3.89	41.13	54	-12.87	Peak	Horizontal
3	2413.44	96.54	-3.93	92.61	54	38.61	Peak	Horizontal
1	2358.36	44.73	-3.78	40.95	54	-13.05	Peak	Vertical
2	2390	44.09	-3.89	40.2	54	-13.8	Peak	Vertical
3	2413.44	93.38	-3.93	89.45	54	35.45	Peak	Vertical

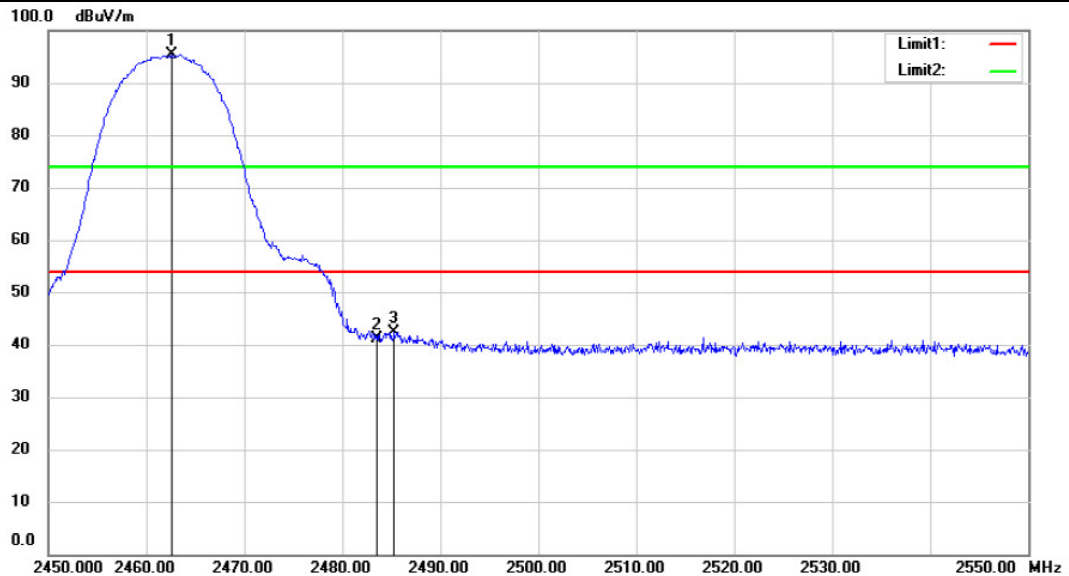


Test Mode: 802.11b

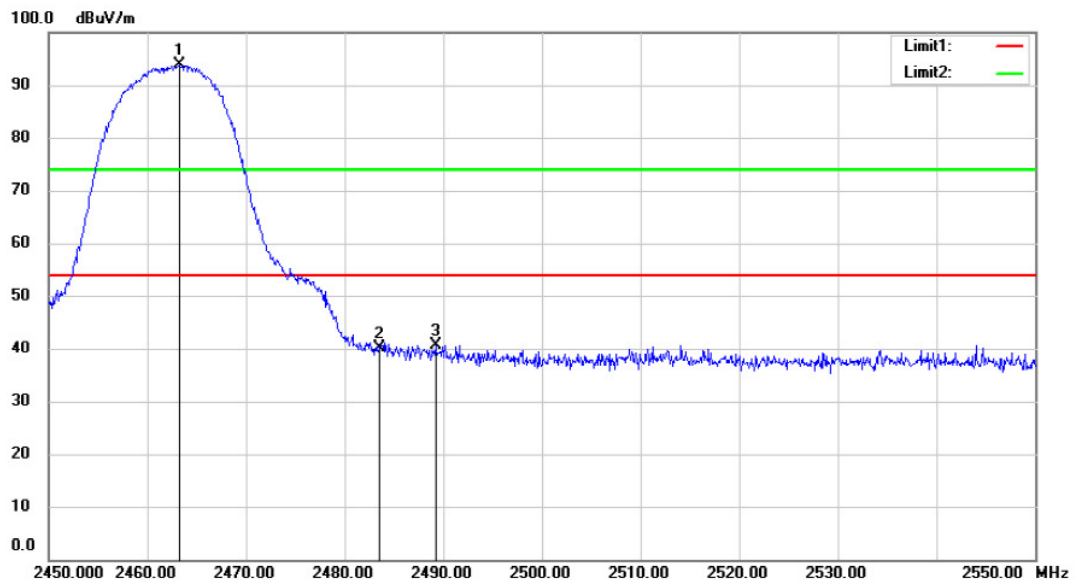
Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462.6	99.43	-3.99	95.44	54	41.44	Peak	Horizontal
2	2483.5	45.15	-4.01	41.14	54	-12.86	Peak	Horizontal
3	2485.3	46.42	-4.01	42.41	54	-11.59	Peak	Horizontal
1	2463.3	97.98	-3.98	94	54	40	Peak	Vertical
2	2483.5	44.13	-4.01	40.12	54	-13.88	Peak	Vertical
3	2489.2	44.71	-4.02	40.69	54	-13.31	Peak	Vertical

Horizontal



Vertical

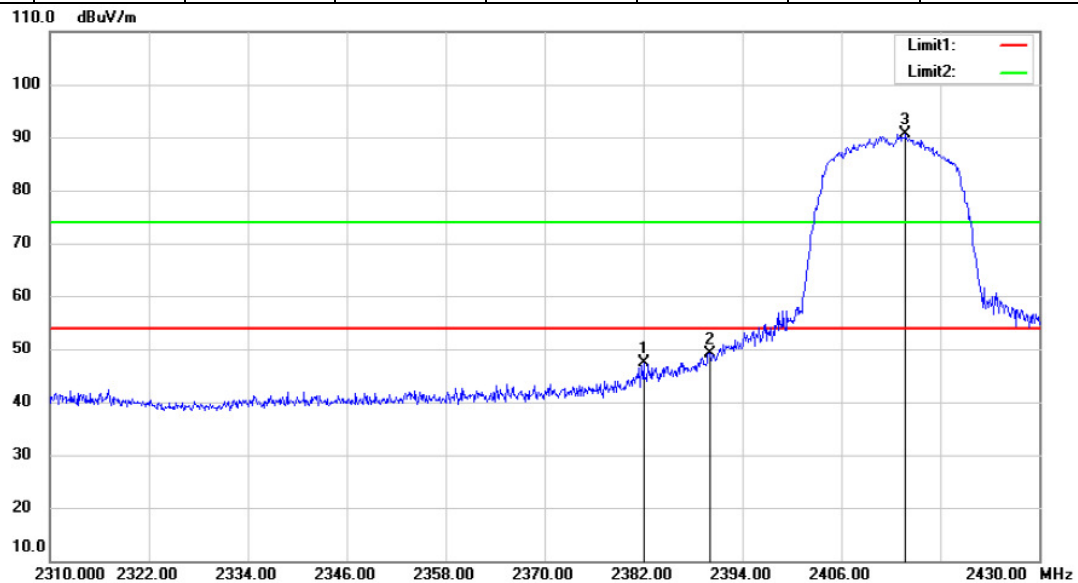


Test Mode: 802.11g

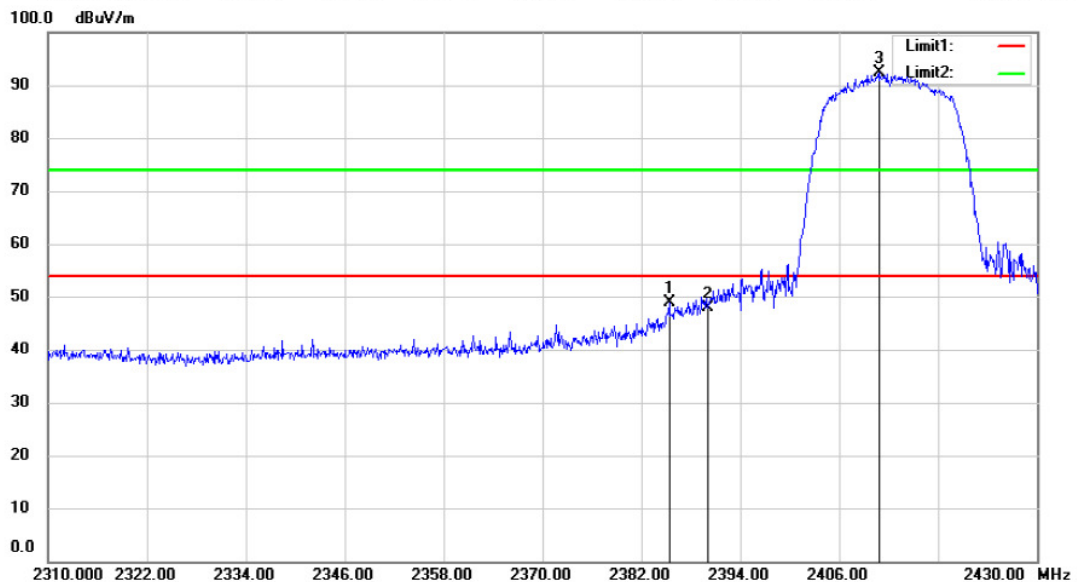
Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2382	51.28	-3.87	47.41	54	-6.59	Peak	Horizontal
2	2390	53.13	-3.89	49.24	54	-4.76	Peak	Horizontal
3	2413.8	94.63	-3.93	90.7	54	36.7	Peak	Horizontal
1	2385.36	52.68	-3.88	48.8	54	-5.2	Peak	Vertical
2	2390	51.73	-3.89	47.84	54	-6.16	Peak	Vertical
3	2410.92	96.37	-3.92	92.45	54	38.45	Peak	Vertical

Horizontal



Vertical

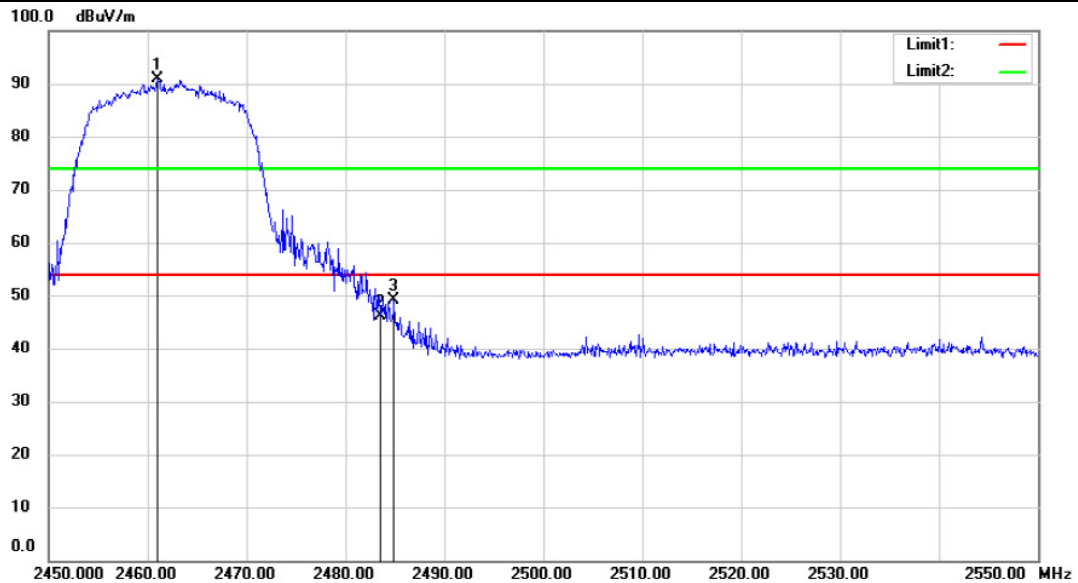


Test Mode: 802.11g

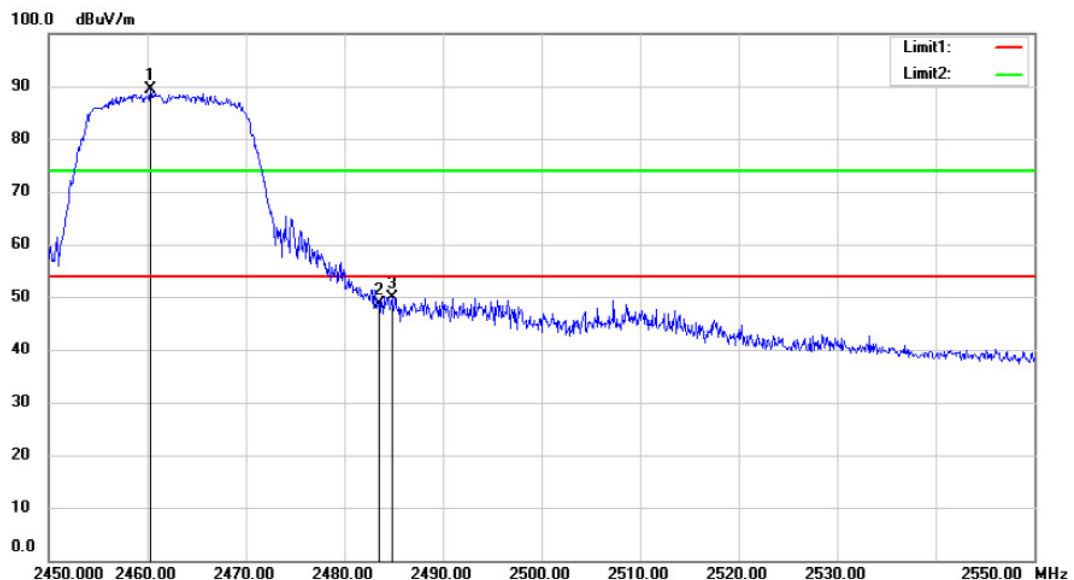
Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2461	94.76	-3.98	90.78	54	36.78	Peak	Horizontal
2	2483.5	50.04	-4.01	46.03	54	-7.97	Peak	Horizontal
3	2484.9	53.04	-4.01	49.03	54	-4.97	Peak	Horizontal
1	2460.3	93.3	-3.99	89.31	54	35.31	Peak	Vertical
2	2483.5	52.65	-4.01	48.64	54	-5.36	Peak	Vertical
3	2484.9	53.79	-4.01	49.78	54	-4.22	Peak	Vertical

Horizontal



Vertical

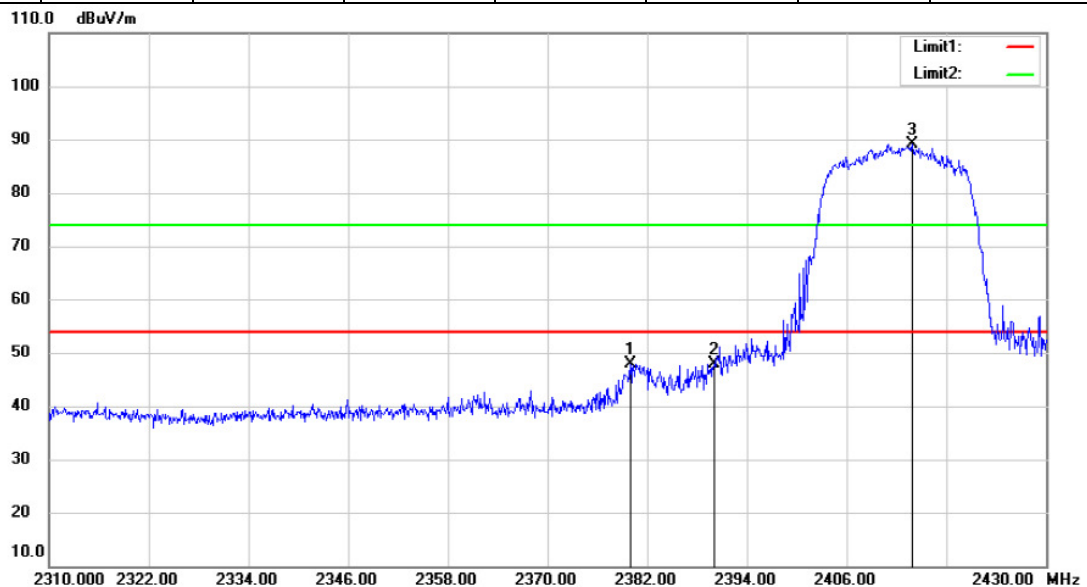


Test Mode: 802.11 n(HT20)

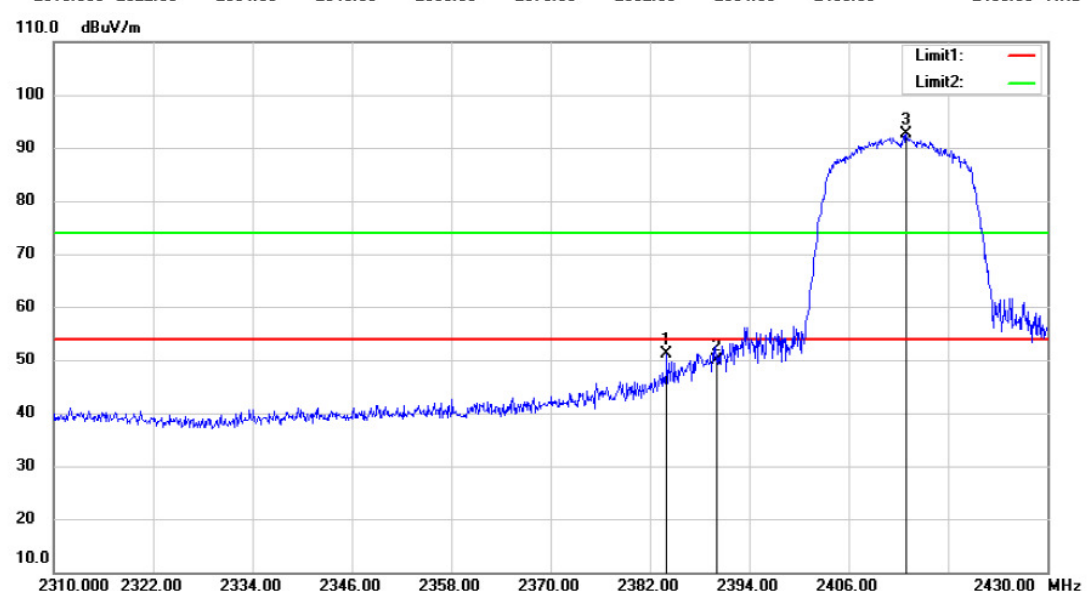
Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2379.96	51.77	-3.86	47.91	54	-6.09	Peak	Horizontal
2	2390	51.86	-3.89	47.97	54	-6.03	Peak	Horizontal
3	2413.92	93.03	-3.93	89.1	54	35.1	Peak	Horizontal
1	2384.04	55	-3.87	51.13	54	-2.87	Peak	Vertical
2	2390	53.69	-3.89	49.8	54	-4.2	Peak	Vertical
3	2412.96	96.62	-3.93	92.69	54	38.69	Peak	Vertical

Horizontal



Vertical

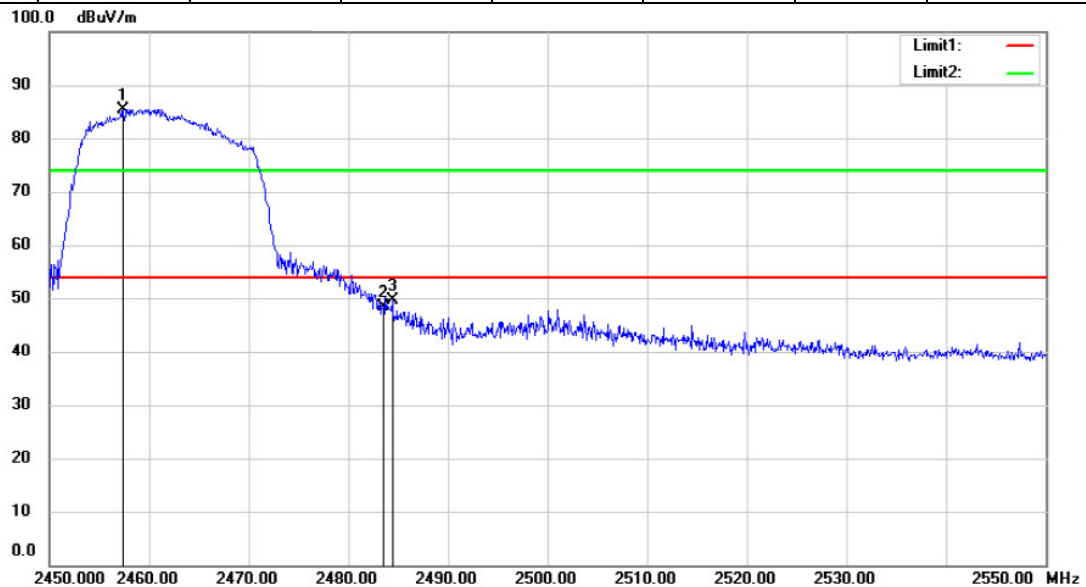


Test Mode: 802.11 n(HT20)

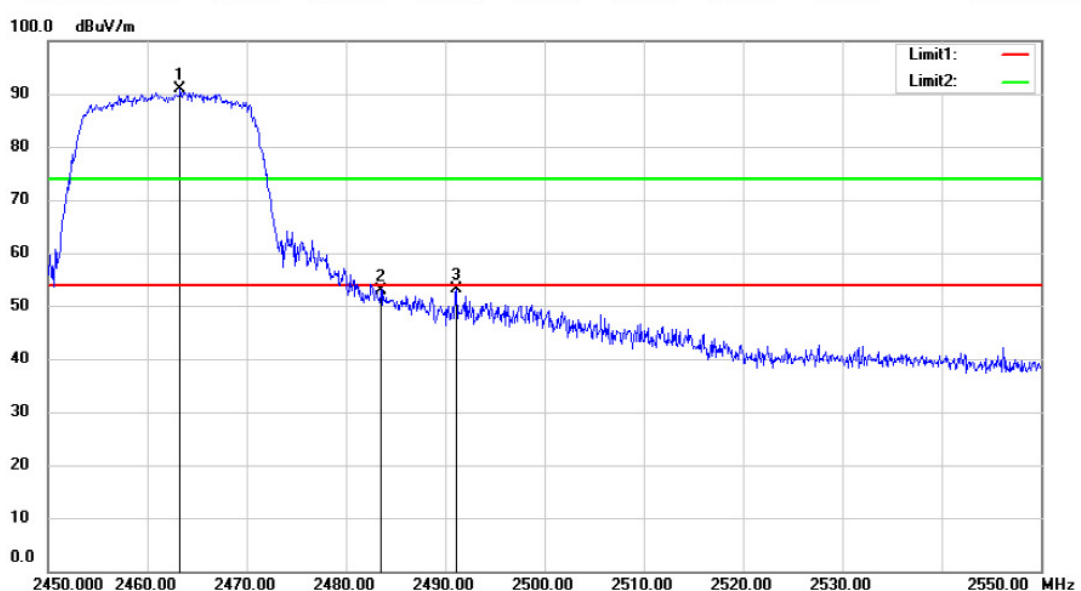
Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2457.4	89.46	-3.98	85.48	54	31.48	Peak	Horizontal
2	2483.5	52.3	-4.01	48.29	54	-5.71	Peak	Horizontal
3	2484.4	53.58	-4.02	49.56	54	-4.44	Peak	Horizontal
1	2463.3	94.8	-3.98	90.82	54	36.82	Peak	Vertical
2	2483.5	56.82	-4.01	52.81	54	-1.19	Peak	Vertical
3	2491.1	57.04	-4.02	53.02	54	-0.98	Peak	Vertical

Horizontal



Vertical

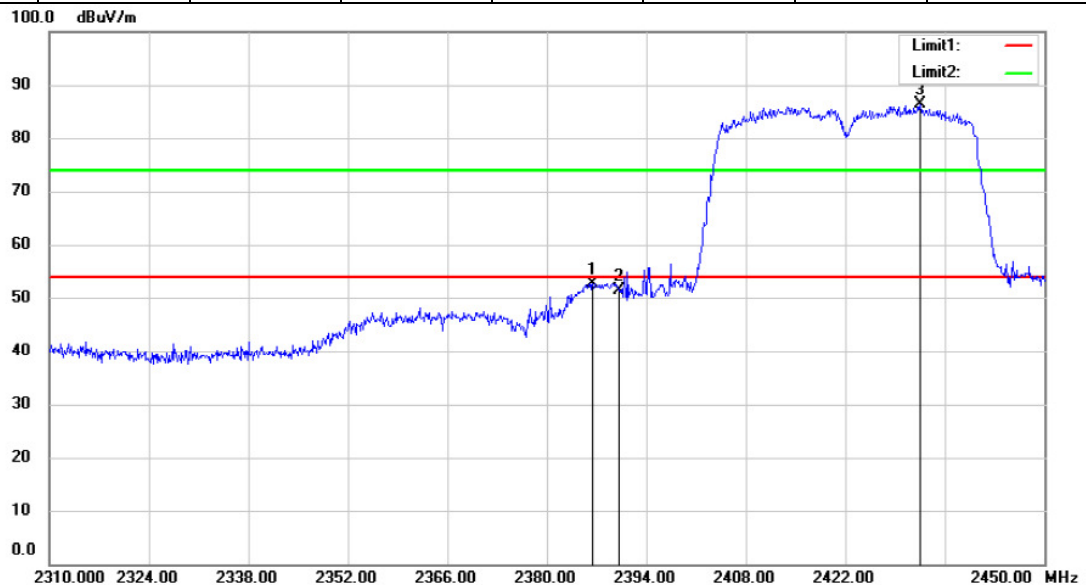


Test Mode: 802.11 n(HT40)

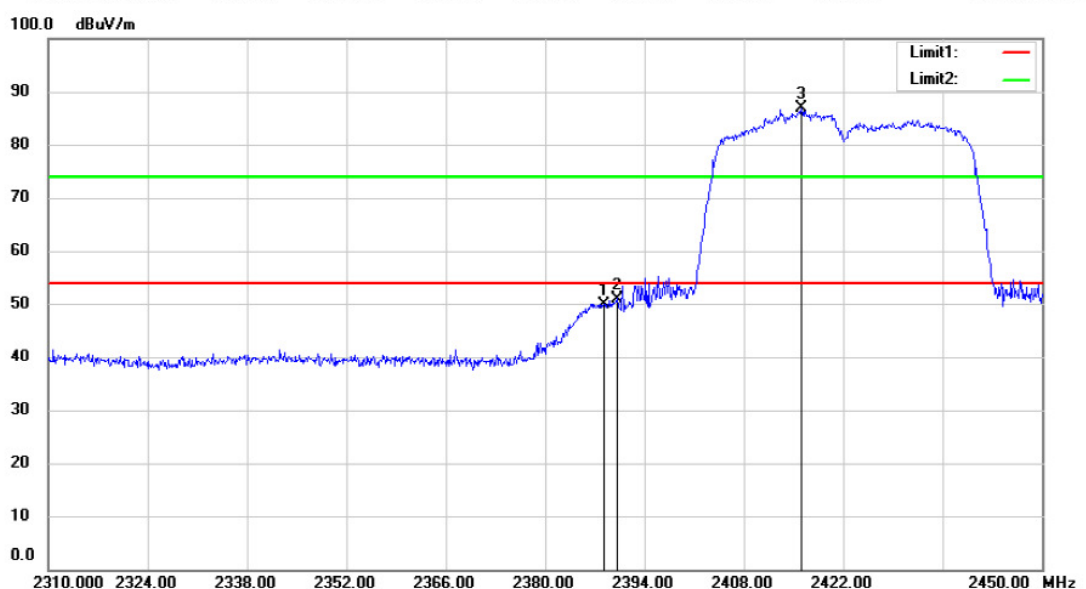
Channel: 2422

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2386.44	56.57	-3.88	52.69	54	-1.31	Peak	Horizontal
2	2390	55.2	-3.89	51.31	54	-2.69	Peak	Horizontal
3	2432.5	90.44	-3.95	86.49	54	32.49	Peak	Horizontal
1	2388.26	53.74	-3.88	49.86	54	-4.14	Peak	Vertical
2	2390	54.74	-3.89	50.85	54	-3.15	Peak	Vertical
3	2416.12	90.84	-3.93	86.91	54	32.91	Peak	Vertical

Horizontal



Vertical

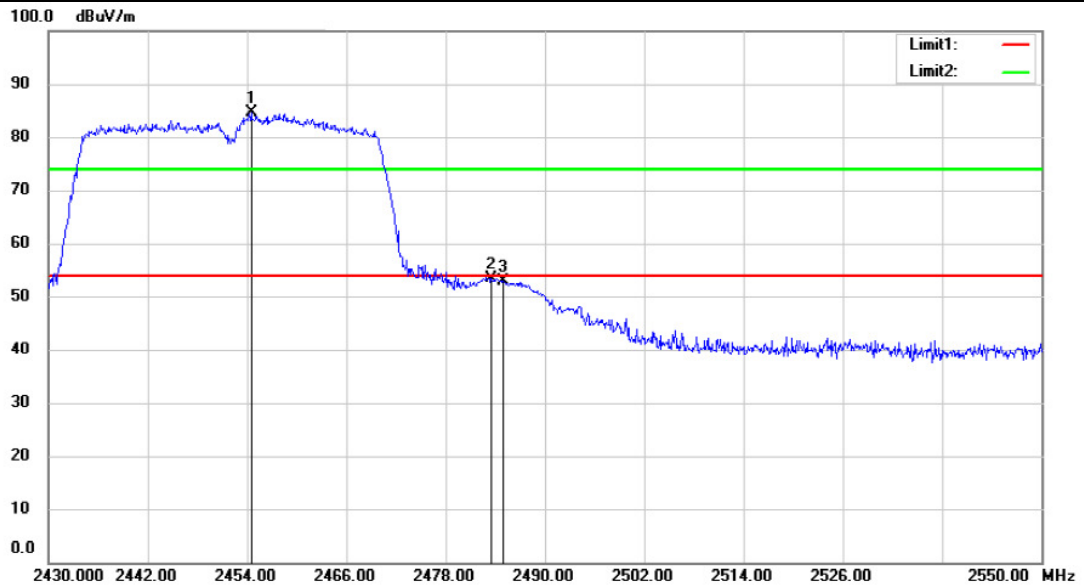


Test Mode: 802.11 n(HT40)

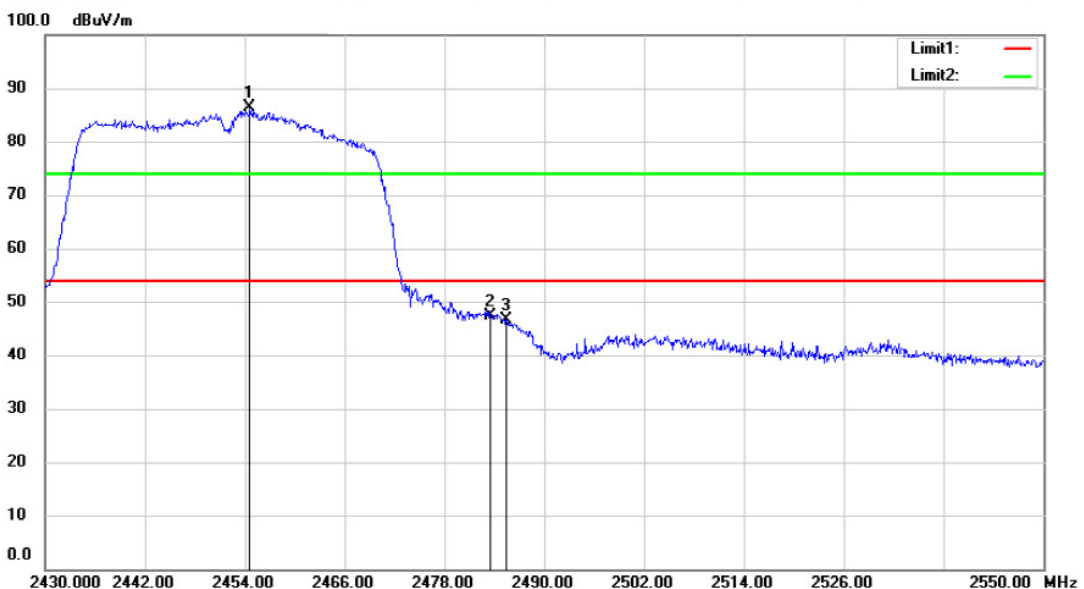
Channel: 2452

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2454.48	88.71	-3.97	84.74	54	30.74	Peak	Horizontal
2	2483.5	57.33	-4.01	53.32	54	-0.68	Peak	Horizontal
3	2484.96	56.95	-4.01	52.94	54	-1.06	Peak	Horizontal
1	2454.6	90.3	-3.97	86.33	54	32.33	Peak	Vertical
2	2483.5	51.3	-4.01	47.29	54	-6.71	Peak	Vertical
3	2485.44	50.63	-4.01	46.62	54	-7.38	Peak	Vertical

Horizontal



Vertical



Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor
2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

b. RSS-Gen section 7.2.2 Restricted bands of operation

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		



8 Test Setup Photographs

Refer to the < Krypton 7_Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < Krypton 7_External Photos > & < Krypton 7_Internal Photos >.

--End of the Report--