Audix Technology Corp.
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FCC 15.247
2.4GHz Test Report

for

Chungear Industrial Co., Ltd

12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan

Product Name : Ceiling Fan Remote Controller
Model Name : JY1126W
FCC ID : KUJCE10718

Prepared by: : AUDIX Technology Corporation, EMC Department

Testing Laboratory
1724

TESTING
NVLAP LAB CODE 200077-0

The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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TEST REPORT CERTIFICATION

Applicant	:	Chungear Industrial Co., Ltd
Manufacturer #1	:	Chungear Industrial Co., Ltd
Manufacturer #2	:	Satellite Electronic (Zhongshan) Ltd.
Manufacturer #3	:	Zhongshan Amity Electronic Ltd.
EUT Description		
(1) Product	:	Ceiling Fan Remote Controller
(2) Model	:	JY1126W
(3) Power Supply	:	AC 120V, 60Hz

Applicable Standards:

47CFRFCC Part 15 Subpart C
ANSI C63.10:2013
558074 D01 15.247 Meas Guidance v05

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.
Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2018. 08. 02

Reviewed by: _____ (Annie Yu/Administrator)

Approved by: _____ (Ben Cheng/Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2018. 08. 02	Original Report	EM-F180335

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2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	**PASS**
15.247(d)/15.205	Radiated Band Edge and Radiated Spurious Emission	**PASS**
15.247(a)(2)	6dB Bandwidth	**PASS**
15.247(b)(3)	Maximum Peak Output	**PASS**
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	**PASS**
15.247 (e)	Peak Power Spectral Density	**PASS**
15.203	Antenna Requirement	**Compliance**

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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan
Manufacture	#1 Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan #2 Satellite Electronic (Zhongshan) Ltd. 8 CHUANG YE RD.TORCH DEVELOPMENT ZONE..ZHONGSHAN.GUANGDONG.528437 CHINA #3 Zhongshan Amity Electronic Ltd. No. 16 Torch Hi-Tech Industrial Development Zone, Zhong Shan City Guangdong Province China.
Product	Ceiling Fan Remote Controller
Model	JY1126W

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3.2. Description of EUT

Test Model	JY1126W
Serial Number	N/A
Power Rating	AC 120V, 60Hz
RF Features	WLAN: 802.11b/g/n 304MHz (RX only)
Transmit Type	1T1R
Sample Status	Production
Date of Receipt	2018. 06. 21
Date of Test	2018. 07. 23~ 31
Interface Ports of EUT	• AC power cable x2 (Unshielded, Undetachable, 1.0m, with one ferrite core) • Light cable x2 (Unshielded, Undetachable, 0.2m) • Signal Cable x4 (Unshielded, Undetachable, 0.2m) • Antenna cable (For 304MHz) x1 • WiFi Antenna cable (For 2.4GHz) x1
Accessories Supplied	• None

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3.3. Antenna Information

Antenna					
No.	**Antenna Part Number**	**Manufacture**	**Antenna Type**	**Frequency (MHz)**	**Max Gain (dBi)**
1	290-80076	HONGBO Telecommunication	PCB	2400-2500	**1.82**

3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 72.2
802.11n-HT40	2422-2462	9		Up to 150

Channel List			
802.11 b/g/n-HT20		802.11n-HT40	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

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RMS Output Power (dBm)				
Channel	802.11b	802.11g	802.11n-HT20	802.11n-HT40
1	17.31	13.99	13.17	---
2	17.19	14.26	15.56	
3	17.26	14.35	15.48	12.83
4	17.04	14.19	15.74	12.64
5	17.23	14.43	15.63	12.49
6	17.21	15.97	16.01	12.71
7	16.96	14.44	15.84	12.65
8	17.11	14.52	15.65	12.53
9	17.18	14.36	15.38	12.76
10	17.02	14.15	15.47	12.17
11	17.28	14.04	13.11	3.85
12	15.14	14.42	12.14	---
13	14.59	6.35	6.25	

3.5. Descriptions of Key Components

None

3.6. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	19.58
1	DQPSK	2	19.41
1	CCK	5.5	19.14
1	CCK	11	19.34

802.11g			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6	23.83
1	BPSK	9	23.52
1	QPSK	12	23.36
1	QPSK	18	23.04
1	16-QAM	24	23.19
1	16-QAM	36	23.08
1	64-QAM	48	22.98
1	64-QAM	54	22.84

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802.11n-HT20				802.11n-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	MCS0	22.54	3	BPSK	MCS0	22.54
1	QPSK	MCS1	22.41	3	QPSK	MCS1	22.41
1	QPSK	MCS2	22.26	3	QPSK	MCS2	22.26
1	16-QAM	MCS3	22.15	3	16-QAM	MCS3	22.15
1	16-QAM	MCS4	22.03	3	16-QAM	MCS4	22.03
1	64-QAM	MCS5	21.88	3	64-QAM	MCS5	21.88
1	64-QAM	MCS6	21.72	3	64-QAM	MCS6	21.72
1	64-QAM	MCS7	21.84	3	64-QAM	MCS7	21.84

Note: Above results are assessed in peak power.

3.7. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	1.00	---	0
802.11g	1.00	---	0
802.11n-HT20	1.00	---	0
802.11n-HT40	1.00	---	0

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.

AC Conduction	
Test Case	Normal operation

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Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11b	1Mbps	1/11/12/13
		802.11g	6Mbps	1/11/12/13
		802.11n-HT20	MCS0	1/2/10/11/12/13
		802.11n-HT40	MCS0	3/9/10/11
	Radiated Spurious Emission Note1 & 2	802.11b	1Mbps	1
		802.11g	6Mbps	6
		802.11n-HT20	MCS0	6
		802.11n-HT40	MCS0	3
Conducted Test Case	6dB Bandwidth	802.11b	1Mbps	1/6/11/13
		802.11g	6Mbps	1/6/11/13
		802.11n-HT20	MCS0	1/6/11/13
		802.11n-HT40	MCS0	3/6/9/11
	Peak Output Power	802.11b	1Mbps	1/6/11/12/13
		802.11g	6Mbps	1/6/11/12/13
		802.11n-HT20	MCS0	1/2/6/10/11/12/13
		802.11n-HT40	MCS0	3/6/9/10/11
	Band Edge	802.11b	1Mbps	1/11/13
		802.11g	6Mbps	1/11/13
		802.11n-HT20	MCS0	1/11/13
		802.11n-HT40	MCS0	3/9/11
	Spurious Emission	802.11b	1Mbps	1/6/11/13
		802.11g	6Mbps	1/6/11/13
		802.11n-HT20	MCS0	1/6/11/13
		802.11n-HT40	MCS0	3/6/9/11
	Peak Power Spectral Density	802.11b	1Mbps	1/6/11/13
		802.11g	6Mbps	1/6/11/13
		802.11n-HT20	MCS0	1/6/11/13
		802.11n-HT40	MCS0	3/6/9/11

Note 1: ■Mobile Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ■ Lie □ Side □ Stand

□Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: □ Lie □ Side □ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

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3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

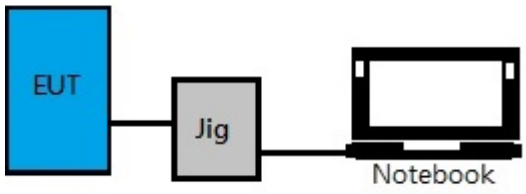
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Notebook PC	ASUS	X5502E	N/A	Contains FCC ID: PPD-AAR5B225
2.	Test Jig	N/A	N/A	N/A	N/A

3.8.2. Cable Lists

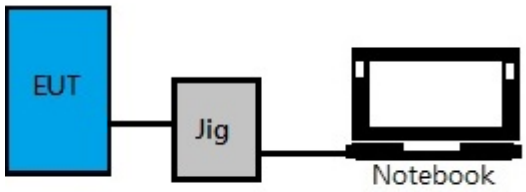
No.	Cable Description Of The Above Support Units
1.	USB Cable: Unshielded, Detachable, 1.0m Adapter: Enerironix, M/N EXA1208UH, DC Cord: Shielded, Undetachable, 1.8m, Bonded a ferrite core AC Power Cord: Unshielded, Detachable, 1.8m

3.9. Setup Configuration

3.9.1. EUT Configuration for Power Line & Radiated Emission



3.9.2. EUT Configuration for RF Conducted Test Items



3.10. Operating Condition of EUT

Test program “UI_mptool” is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

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3.11.Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 (1) No. 8 Shielding Room (2) Semi-Anechoic Chamber (IC Test Site Registration No.:5183B-1) (3) Fully Anechoic Chamber (IC Test Site Registration No.:5183B-4)

3.12.Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.50dB
Radiation Test (Distance: 3m)	30MHz~1000MHz	± 3.68dB
	Above 1GHz	±5.82dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

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4. MEASUREMENT EQUIPMENTLIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR	101774	2018. 01. 24	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2017. 11. 12	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2017. 12. 14	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2018. 01. 16	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2018. 04. 20	1 Year
6.	Test Software	Audix	e3	V.6.120424	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2018. 01. 04	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2018. 06. 20	1 Year
3.	Amplifier	HP	8447D	2944A06305	2018. 01. 30	1 Year
4.	Amplifier	HP	8449B	3008A02678	2018. 03. 06	1 Year
5.	Bilog Antenna	CHASE	CBL6112D	33821	2018. 01. 21	1 Year
6.	Loop Antenna	R&S	HFH2-Z2	891847/27	2017. 12. 18	1 Year
7.	Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00135902	2018. 03. 08	1 Year
8.	Horn Antenna	EMCO	3116	2653	2017. 12. 19	1 Year
9.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2018. 07. 25	1 Year
10.	3GHz Notch Filter	Microwave	H3G018G1	484798	2017. 08. 25	1 Year
11.	Digital Thermo-Hygro Meter	IMax	HTC-1	No.1 3m A/C	2018. 04. 20	1 Year
12.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF-02	2018. 04. 20	1 Year
13.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

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4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2018. 06. 20	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2017. 11. 03	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2017. 11. 03	1 Year
4.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2018. 04. 20	1 Year

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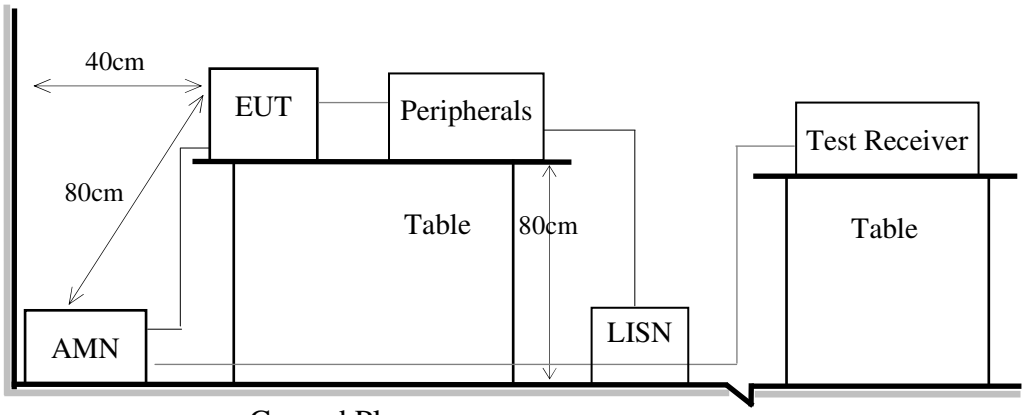
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.9

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.

5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).

5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)

5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

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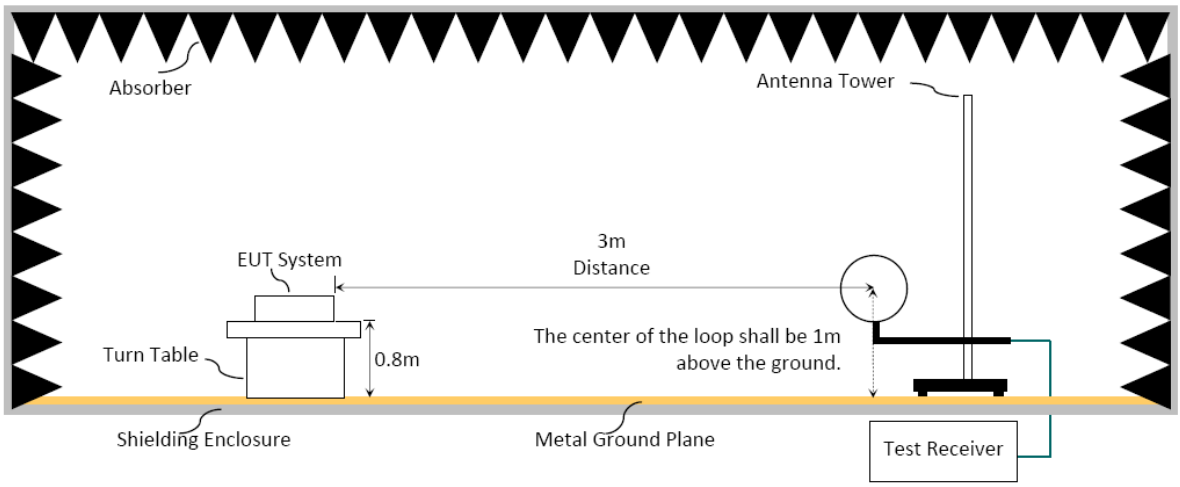
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

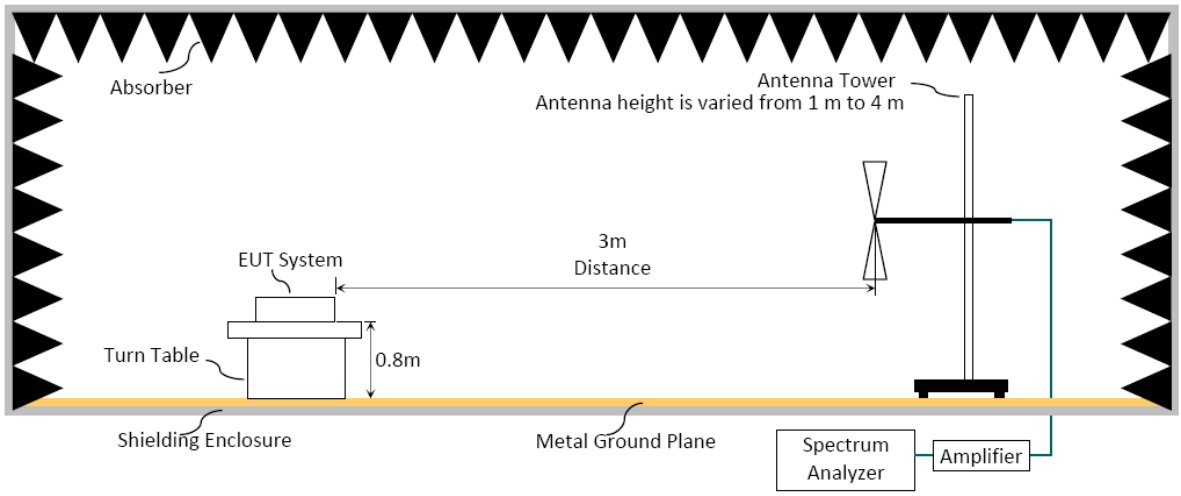
6.1.1. Block Diagram of EUT

Indicated as section 3.9

6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



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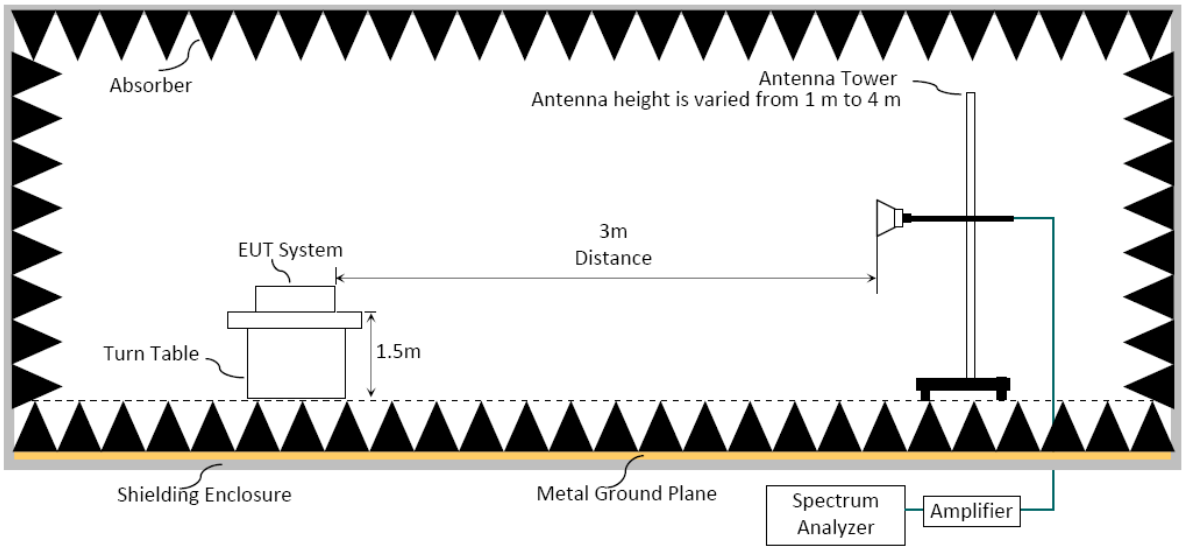
6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dBµV/m	µV/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBµV/m (Peak) 54.0 dBµV/m (Average)	

Remark：(1) dBµV/m = 20 log (µV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3,if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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6.3. Test Procedure

Frequency Range 9kHz~30MHz:
The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.
In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013regulation.

(1) RBW = 9kHz with peak and average detector.
(2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:
The EUT setup on the turntable which has 80 cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013regulation.

Frequency below 1GHz:
Spectrum Analyzer is used for pre-testing with following setting:
(1)RBW = 120KHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
(7)When peak-detected value is lower than limit that the measurement using theQ.P. detector is not required, otherwise using Q.P. for final measurement.

Frequency above 1GHz to 10th harmonic(up to 25 GHz):
Peak Detector:
(1)RBW = 1MHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
(7)When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

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Average Detector:

■**Option 1:**

(1)RBW = 1MHz

(2)VBW ≥ 1/ T.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting
802.11b	---	---	10Hz
802.11g	---	---	10Hz
802.11n-HT20	---	---	10Hz
802.11n-HT40	---	---	10Hz

N/A: 1/ T is not implemented when duty cycle presented in section 3.7 is ≥98%.

(1)Detector = Peak.

(2)Sweep time = auto.

(3)Trace mode = max hold.

(4)Allow sweeps to continue until the trace stabilizes.

□**Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

■Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading

■Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading

□Average Emission Level= Peak Emission Level+ DCCF

Duty Cycle Correction Factor (DCCF)= 20log(TX_{on}/TX_{on+off}) presented in section 3.7

□ERP= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

Please refer to Appendix A.

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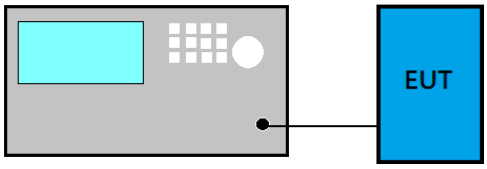
7. 6dB BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

7.3. Test Procedure

Following measurement procedure is reference to 558074 D01 15.247 Meas Guidance v05:

(1) Set RBW = 100 kHz.
(2) Set the video bandwidth (VBW) ≥ 3 × RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

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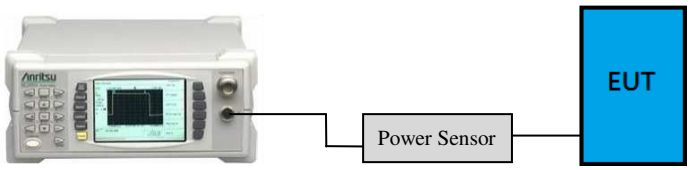
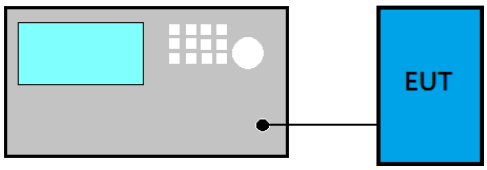
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup

- For WLAN Function



- For BLE Function



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHzis : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

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8.3. Test Procedure

Following measurement procedure is reference to 558074 D01 15.247 Meas Guidance v05:

■PKPM1 Peak power meter method:

EUT is connected to power sensor and record the maximum output power.

□Maximum peak conducted output power method:

(1) Set the RBW ≥ DTS bandwidth
(2) Set VBW ≥ 3 × RBW
(3) Set span ≥ 3 × RBW.
(4) Sweep time = auto couple
(5) Detector = peak.
(6) Trace mode = max hold.
(7) Allow trace to fully stabilize.
(8) Use peak marker function to determine the peak amplitude level.

■Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is< 98%.

□Method AVGSA-2 (Spectrum channel power)

(1) Set span to at least 1.5 times the OBW
(2) Set RBW = 1 -5%of OBW
(3) Set the video bandwidth (VBW) ≥ 3 × RBW.
(4) Detector = RMS.
(5) Trace mode = trace average at least 100 traces
(6) Sweep = auto couple.
(7) 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.
(8) Duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

8.4. Test Results

Please refer to Appendix A

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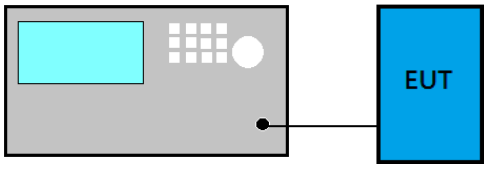
9. EMISSION LIMITATIONS

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation 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 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)).

9.3. Test Procedure

Following measurement procedure is reference to 558074 D01 15.247 Meas Guidance v05:

■Reference Level

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max PSD as reference level.

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■Emission Level Measurement

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

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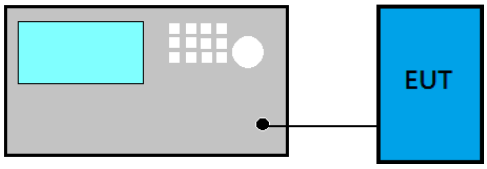
10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to 558074 D01 15.247 Meas Guidance v05:

■Method PKPSD (peak PSD)

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

□Method AVGPSD-2

(1) Using peak PSD procedure step 1 to step 4.
(2) Detector= RMS detector
(3) Sweep time = auto couple
(4) Trace mode = trace averaging over a minimum of 100 traces
(5) Use the peak marker function to determine the maximum amplitude level.
(6) Duty cycle factor is added when duty cycle presented in section 3.7< 98%.
(7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A

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11. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPDNDIX A

TEST DATA AND PLOTS

(Model: JY1126W)

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Audix Technology Corp.
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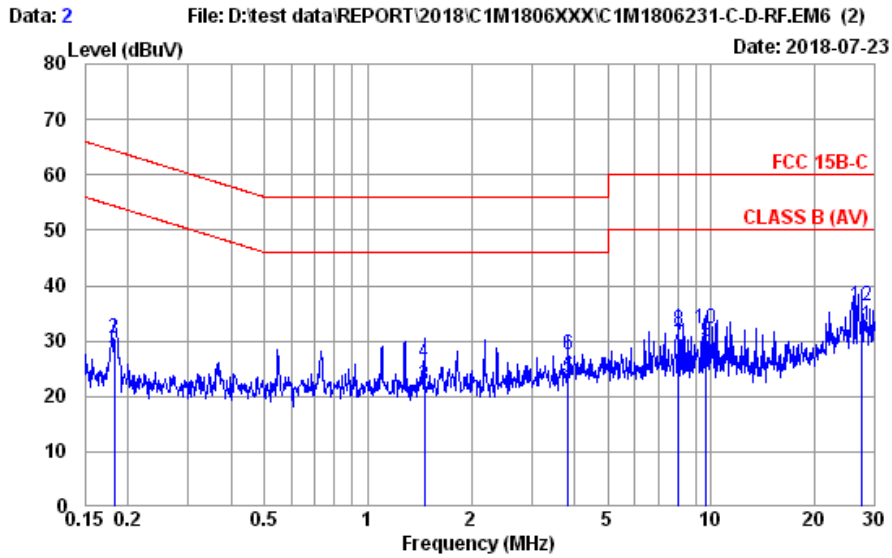
A.1 CONDUCTED EMISSION

Test Date	2018/07/23	Temp./Hum.	25℃/54%
Test Voltage	AC 120V 60Hz		



Site no. : No.8 Shielded Room Data no. : 2
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : FCC 15B-C
Env. / Ins. : 25°C / 54% ESR3 (1774) Engineer : Nick Du
EUT : JY1126W
Power Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.182	10.54	0.03	9.98	6.33	26.88	54.37	27.49	Average
2	0.182	10.54	0.03	9.98	9.80	30.35	64.37	34.02	QP
3	1.464	10.44	0.06	9.99	1.55	22.04	46.00	23.96	Average
4	1.464	10.44	0.06	9.99	5.70	26.19	56.00	29.81	QP
5	3.840	10.58	0.11	10.00	2.71	23.40	46.00	22.60	Average
6	3.840	10.58	0.11	10.00	6.94	27.63	56.00	28.37	QP
7	8.042	11.13	0.17	10.01	8.06	29.37	50.00	20.63	Average
8	8.042	11.13	0.17	10.01	10.74	32.05	60.00	27.95	QP
9	9.688	11.28	0.19	10.02	8.44	29.93	50.00	20.07	Average
10	9.688	11.28	0.19	10.02	10.63	32.12	60.00	27.88	QP
11	27.416	15.65	0.32	10.09	6.66	32.72	50.00	17.28	Average
12	27.416	15.65	0.32	10.09	10.39	36.45	60.00	23.55	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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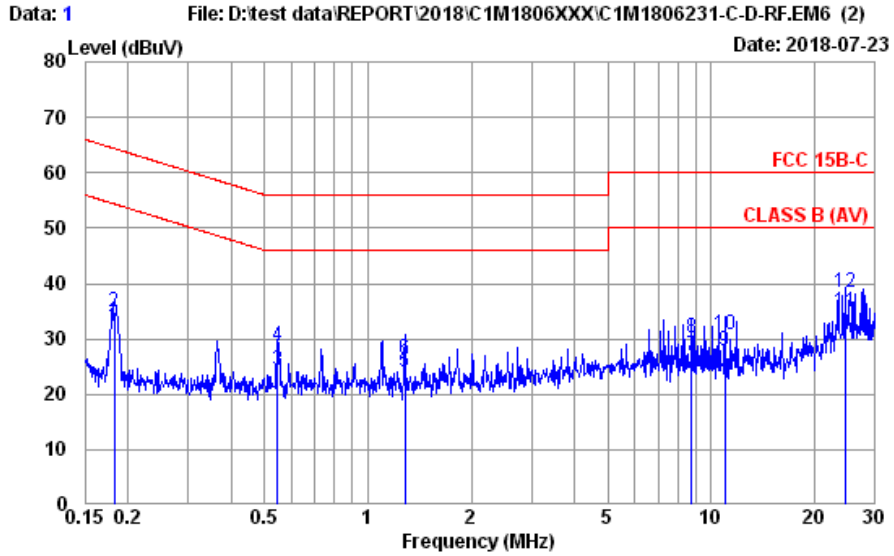
Test Date	2018/07/23	Temp./Hum.	25℃/54%
Test Voltage	AC 120V 60Hz		



Site no. : No.8 Shielded Room Data no. : 1
Condition : ENV4200 100169 LISN Phase : LINE
Limit : FCC 15B-C
Env. / Ins. : 25*C / 54% ESR3 (1774) Engineer : Nick Du
EUT : JY1126W
Power Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.182	10.58	0.03	9.98	11.73	32.32	54.37	22.05	Average
2	0.182	10.58	0.03	9.98	14.32	34.91	64.37	29.46	QP
3	0.546	10.45	0.05	9.98	3.84	24.32	46.00	21.68	Average
4	0.546	10.45	0.05	9.98	8.29	28.77	56.00	27.23	QP
5	1.282	10.45	0.06	9.99	3.40	23.90	46.00	22.10	Average
6	1.282	10.45	0.06	9.99	5.89	26.39	56.00	29.61	QP
7	8.771	11.20	0.18	10.02	5.67	27.07	50.00	22.93	Average
8	8.771	11.20	0.18	10.02	8.80	30.20	60.00	29.80	QP
9	10.965	11.59	0.20	10.03	5.89	27.71	50.00	22.29	Average
10	10.965	11.59	0.20	10.03	8.86	30.68	60.00	29.32	QP
11	24.489	14.97	0.30	10.08	9.55	34.90	50.00	15.10	Average
12	24.489	14.97	0.30	10.08	12.97	38.32	60.00	21.68	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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A.2 RADIATED EMISSION

Test Date	2018/07/31	Temp./Hum.	25℃/49%
Test Voltage	AC 120V, 60Hz		

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1 GHz

Mode	802.11g	Frequency	TX 2437MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
56.19	13.35	1.67	16.90	31.92	40.00	8.08	Peak
117.30	18.66	2.47	12.61	33.74	43.50	9.76	Peak
142.52	17.63	2.75	13.05	33.43	43.50	10.07	Peak
301.60	19.52	4.33	8.50	32.35	46.00	13.65	Peak
333.61	20.43	4.77	9.59	34.79	46.00	11.21	Peak
402.48	22.09	5.57	10.27	37.93	46.00	8.07	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
56.19	13.35	1.67	23.45	38.47	40.00	1.53	Peak
119.24	18.79	2.50	12.99	34.28	43.50	9.22	Peak
145.43	17.40	2.78	22.28	42.46	43.50	1.04	Peak
326.82	20.25	4.68	8.44	33.37	46.00	12.63	Peak
402.48	22.09	5.57	8.89	36.55	46.00	9.45	Peak
822.49	26.12	7.73	3.01	36.86	46.00	9.14	Peak

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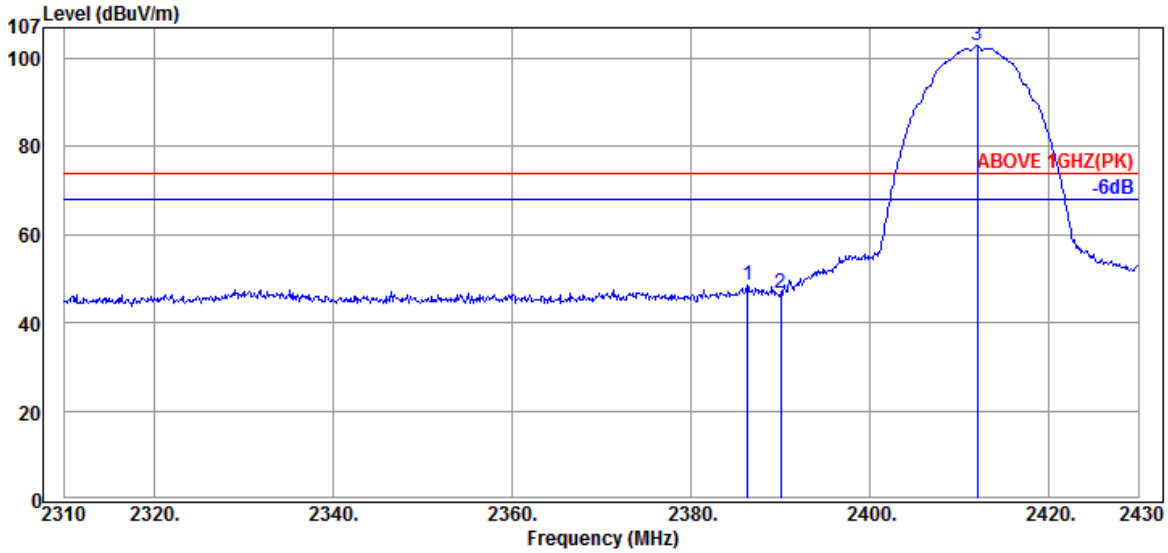
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

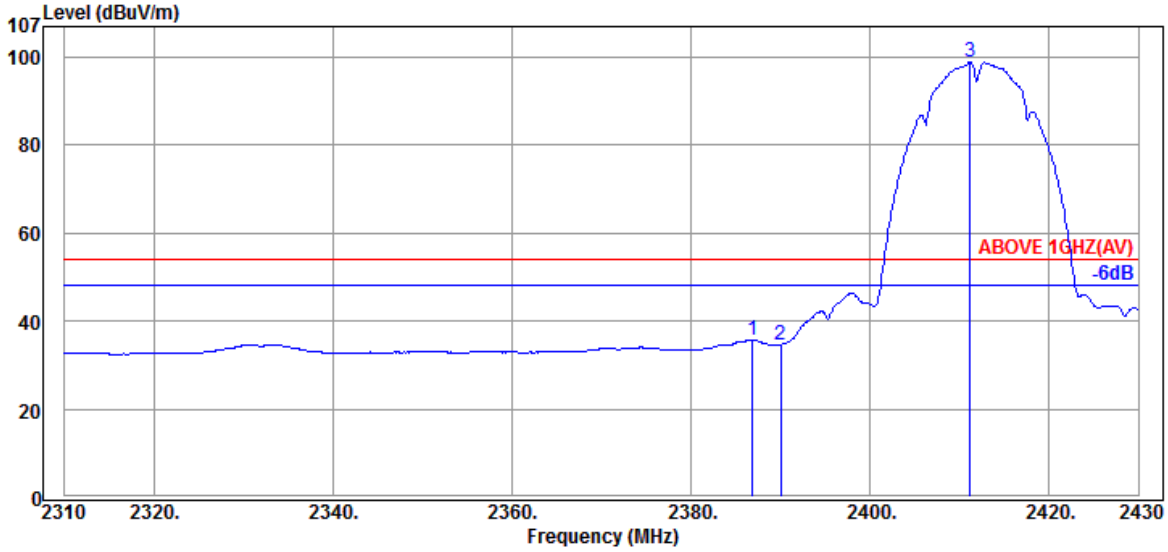
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2386.32	32.16	6.57	9.79	48.52	74.00	25.48	Peak
2390.04	32.16	6.57	7.95	46.68	74.00	27.32	Peak
2412.00	32.18	6.59	64.23	103.00	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2386.92	32.16	6.57	-3.03	35.70	54.00	18.30	Average
2390.04	32.16	6.57	-4.05	34.68	54.00	19.32	Average
2411.16	32.18	6.59	60.11	98.88	---	---	Average

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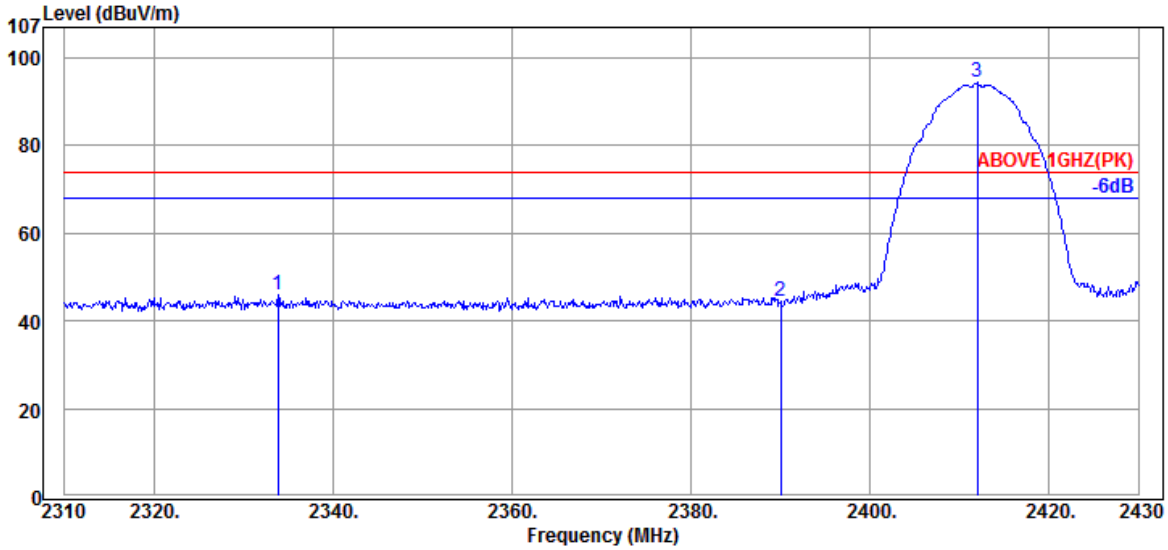
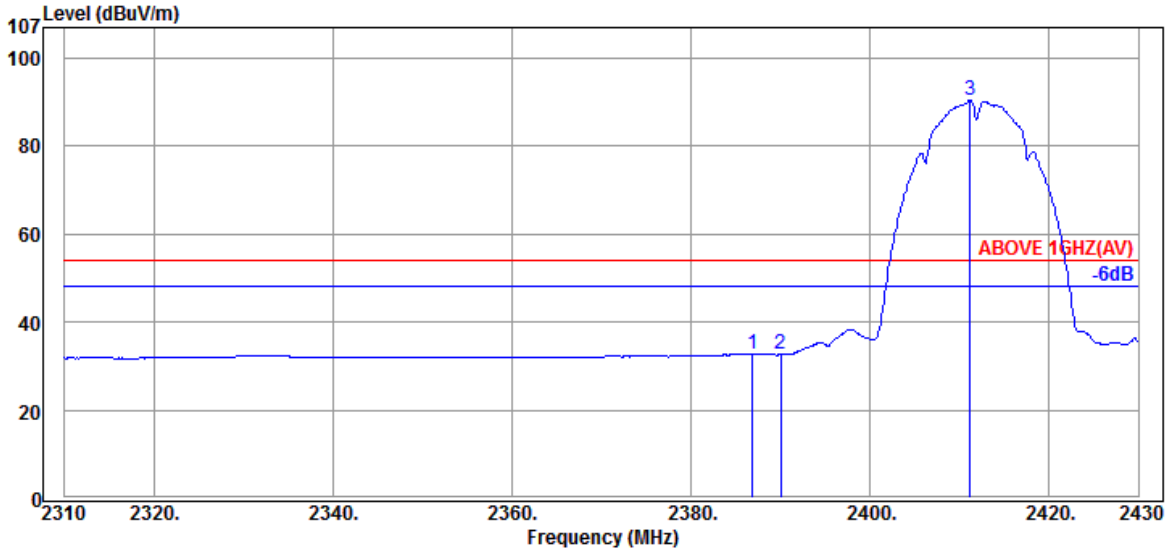
Mode	802.11b	Frequency	TX 2412MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2333.88	32.06	6.49	7.31	45.86	74.00	28.14	Peak
2390.04	32.16	6.57	5.61	44.34	74.00	29.66	Peak
2412.00	32.18	6.59	55.70	94.47	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2386.92	32.16	6.57	-5.89	32.84	54.00	21.16	Average
2390.04	32.16	6.57	-6.14	32.59	54.00	21.41	Average
2411.16	32.18	6.59	51.60	90.37	---	---	Average

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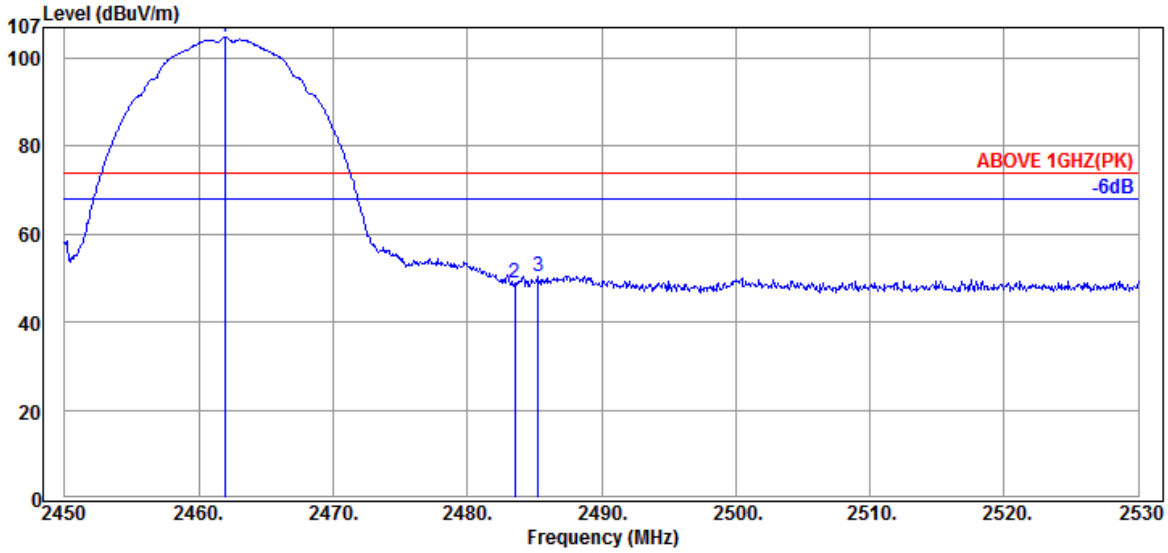
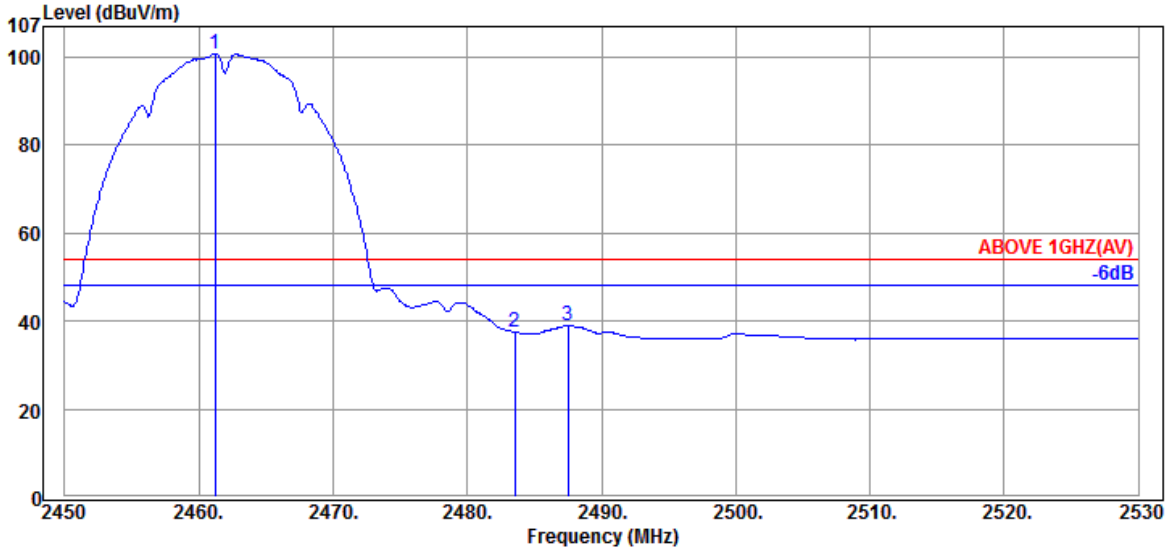
Mode	802.11b	Frequency	TX 2462MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2461.92	32.25	6.65	65.87	104.77	---	---	Peak
2483.52	32.28	6.67	9.85	48.80	74.00	25.20	Peak
2485.28	32.28	6.67	11.57	50.52	74.00	23.48	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2461.20	32.25	6.65	61.95	100.85	---	---	Average
2483.52	32.28	6.67	-1.44	37.51	54.00	16.49	Average
2487.52	32.30	6.69	-0.01	38.98	54.00	15.02	Average

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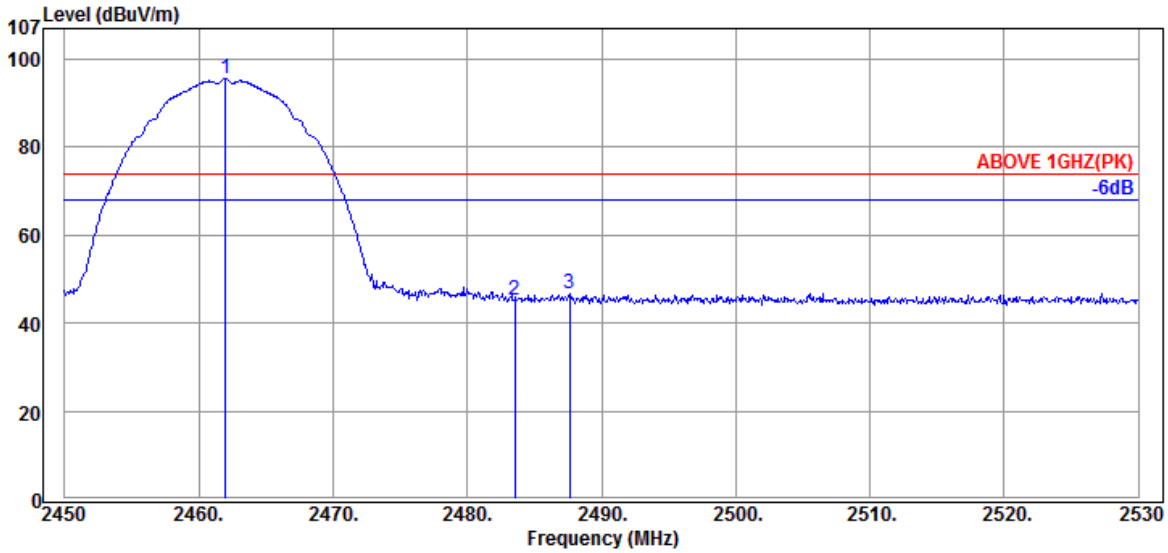
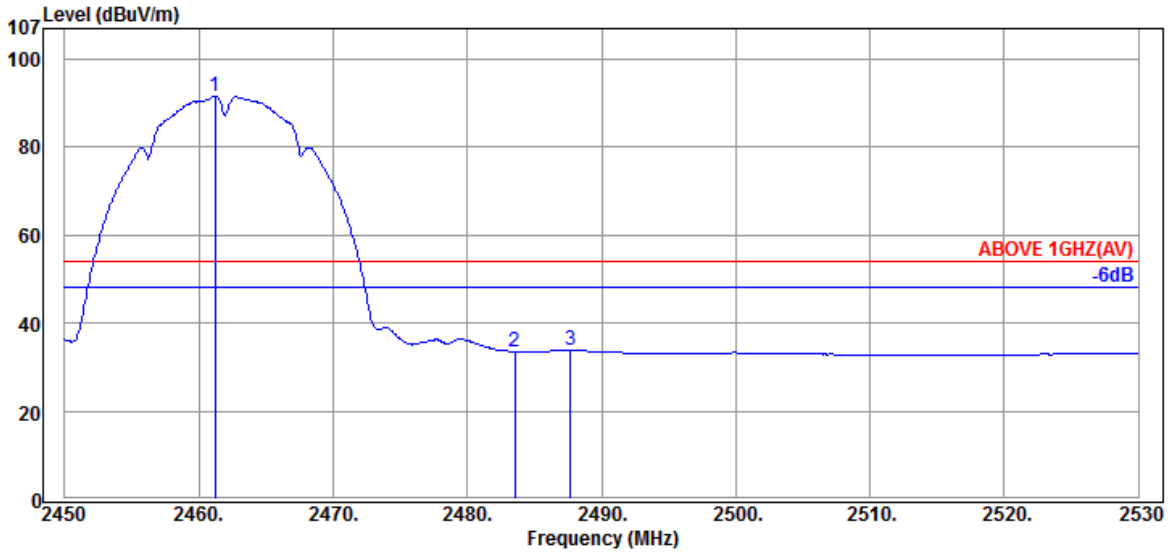
Mode	802.11b	Frequency	TX 2462MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.00	32.25	6.65	56.73	95.63	---	---	Peak
2483.52	32.28	6.67	6.42	45.37	74.00	28.63	Peak
2487.60	32.30	6.69	7.87	46.86	74.00	27.14	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	6.65	52.78	91.68	---	---	Average
2483.52	32.28	6.67	-5.46	33.49	54.00	20.51	Average
2487.68	32.30	6.69	-5.02	33.97	54.00	20.03	Average

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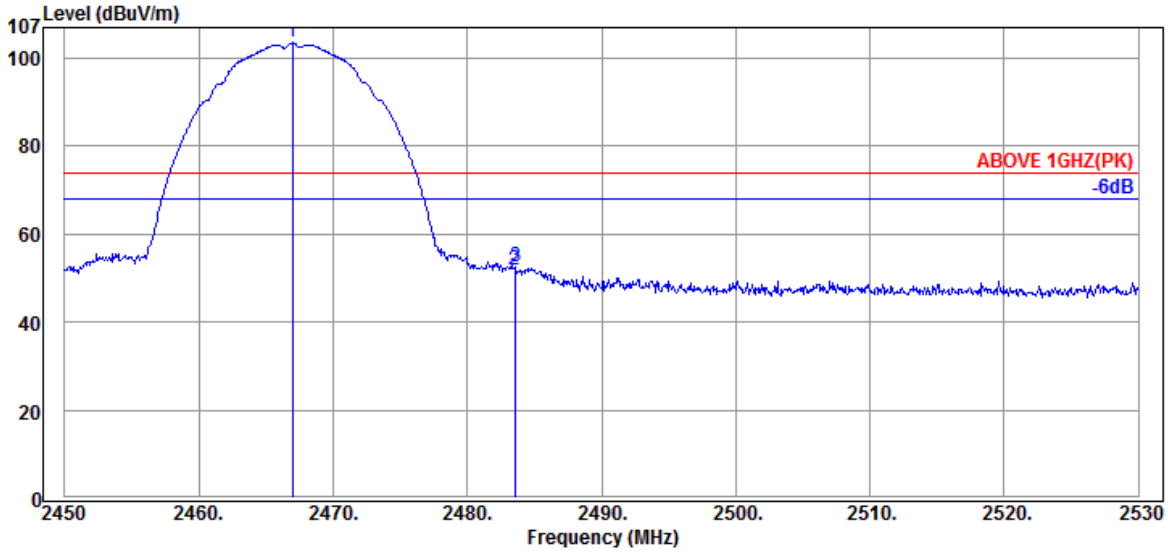
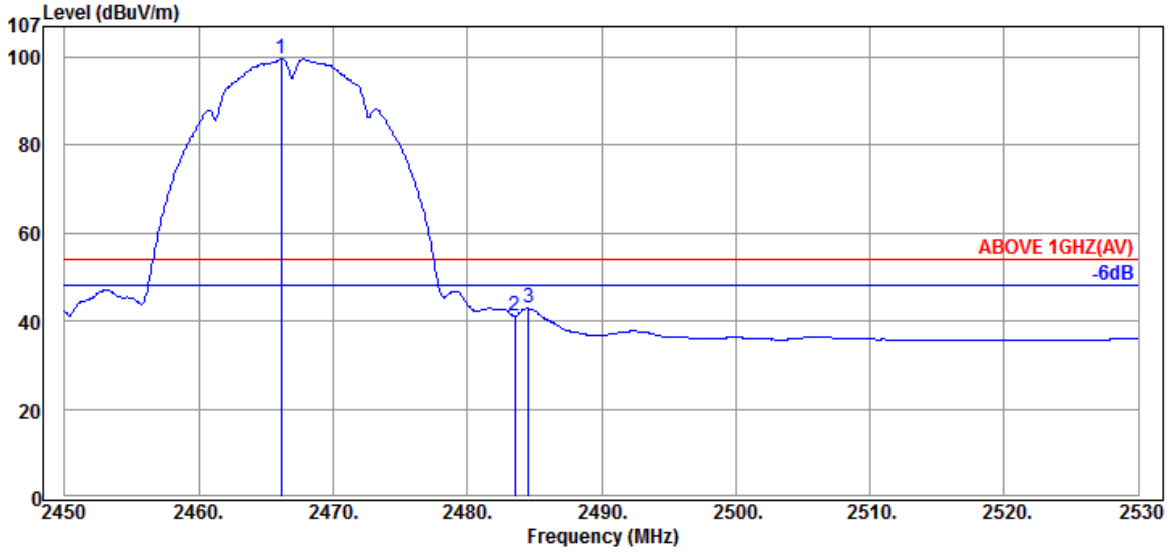
Mode	802.11b	Frequency	TX 2467MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2466.96	32.25	6.65	64.65	103.55	---	---	Peak
2483.52	32.28	6.67	13.04	51.99	74.00	22.01	Peak
2483.60	32.28	6.67	13.65	52.60	74.00	21.40	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2466.16	32.25	6.65	60.77	99.67	---	---	Average
2483.52	32.28	6.67	2.12	41.07	54.00	12.93	Average
2484.56	32.28	6.67	3.90	42.85	54.00	11.15	Average

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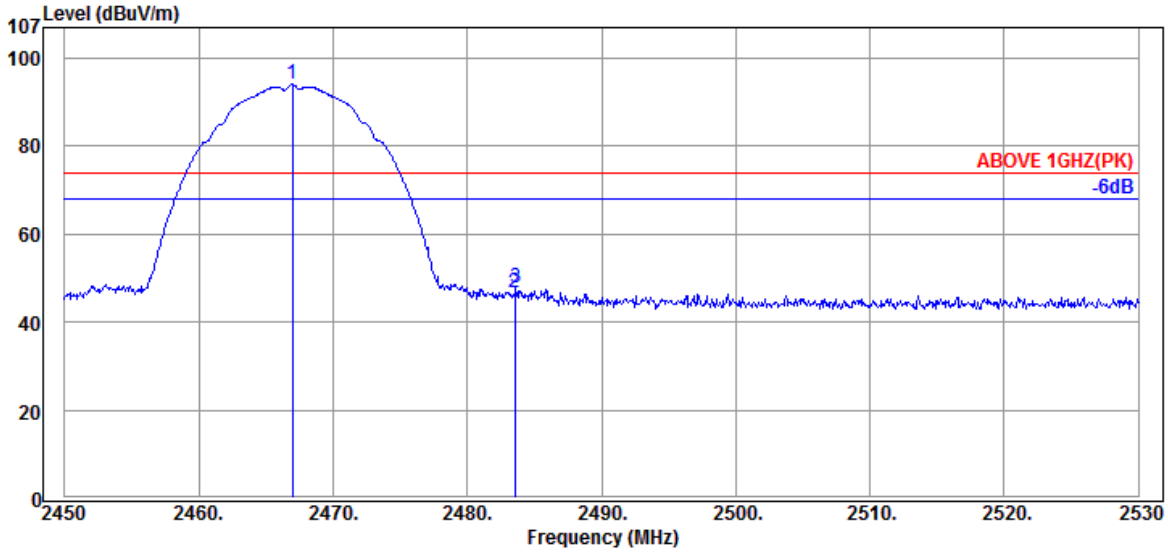
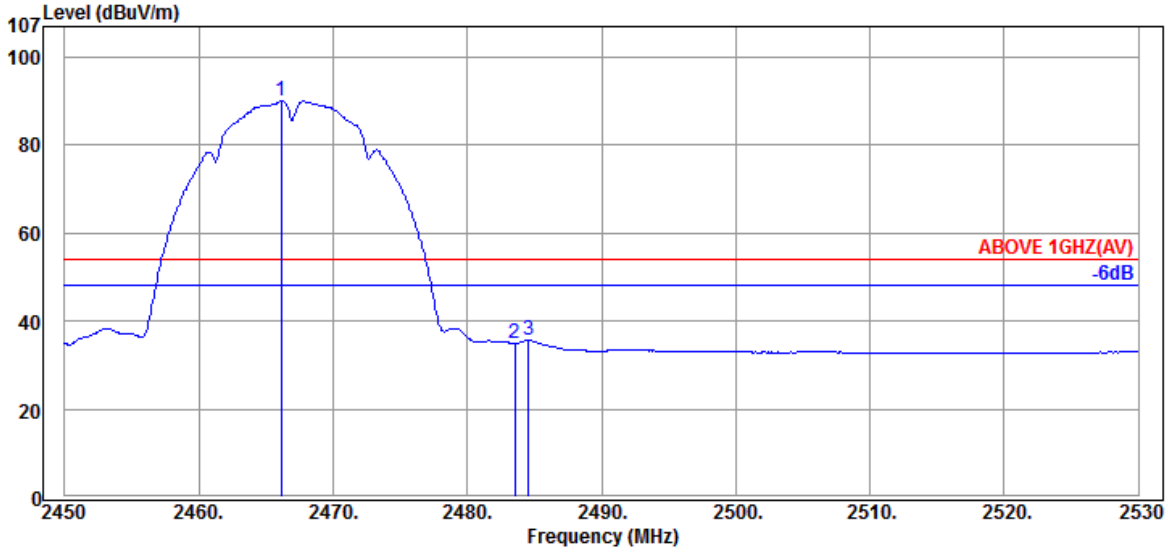
Mode	802.11b	Frequency	TX 2467MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2466.96	32.25	6.65	55.15	94.05	---	---	Peak
2483.52	32.28	6.67	7.66	46.61	74.00	27.39	Peak
2483.60	32.28	6.67	8.68	47.63	74.00	26.37	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2466.16	32.25	6.65	51.23	90.13	---	---	Average
2483.52	32.28	6.67	-4.11	34.84	54.00	19.16	Average
2484.56	32.28	6.67	-3.36	35.59	54.00	18.41	Average

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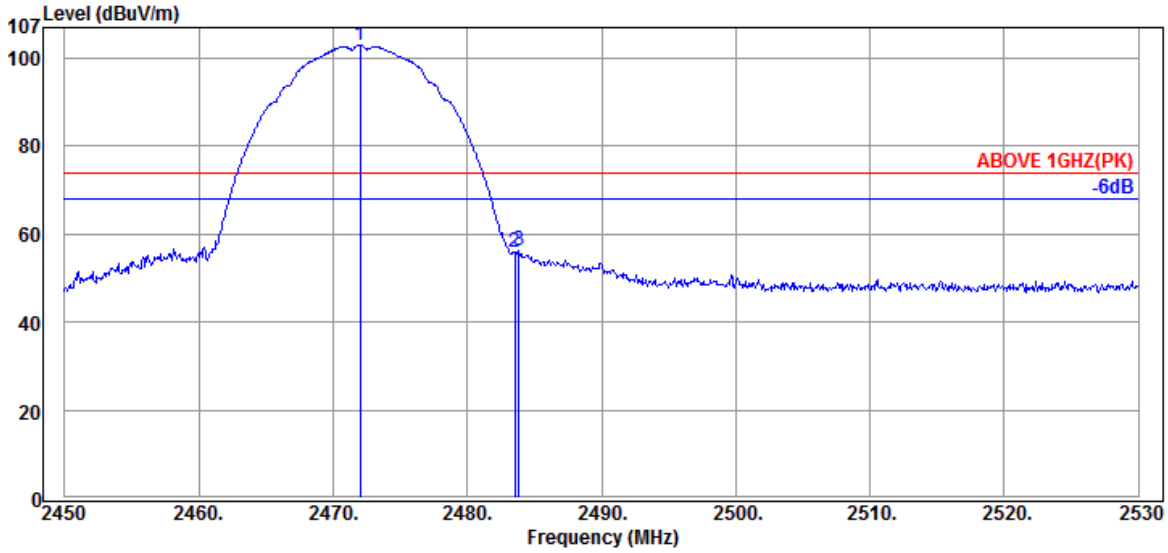
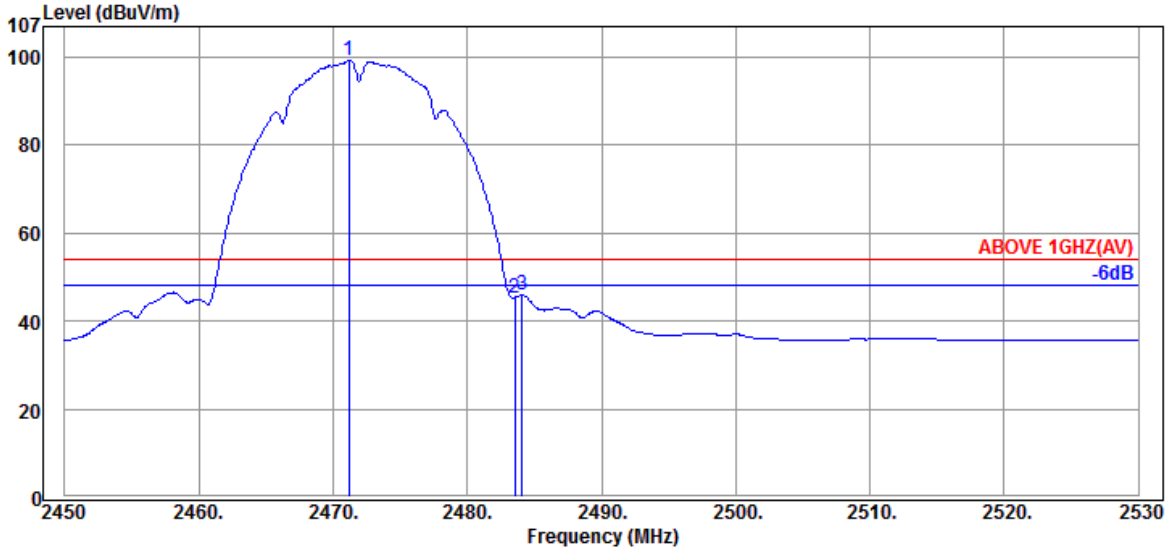
Mode	802.11b	Frequency	TX 2472MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2472.00	32.28	6.67	64.17	103.12	---	---	Peak
2483.52	32.28	6.67	17.04	55.99	74.00	18.01	Peak
2483.84	32.28	6.67	17.43	56.38	74.00	17.62	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2471.20	32.28	6.67	60.29	99.24	---	---	Average
2483.52	32.28	6.67	6.46	45.41	54.00	8.59	Average
2484.08	32.28	6.67	6.87	45.82	54.00	8.18	Average

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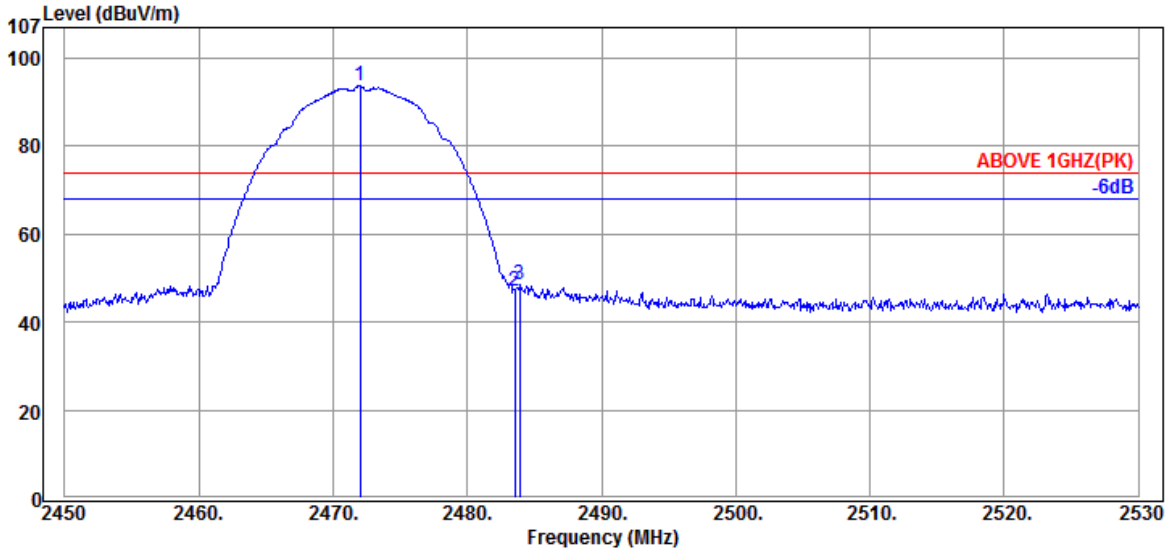
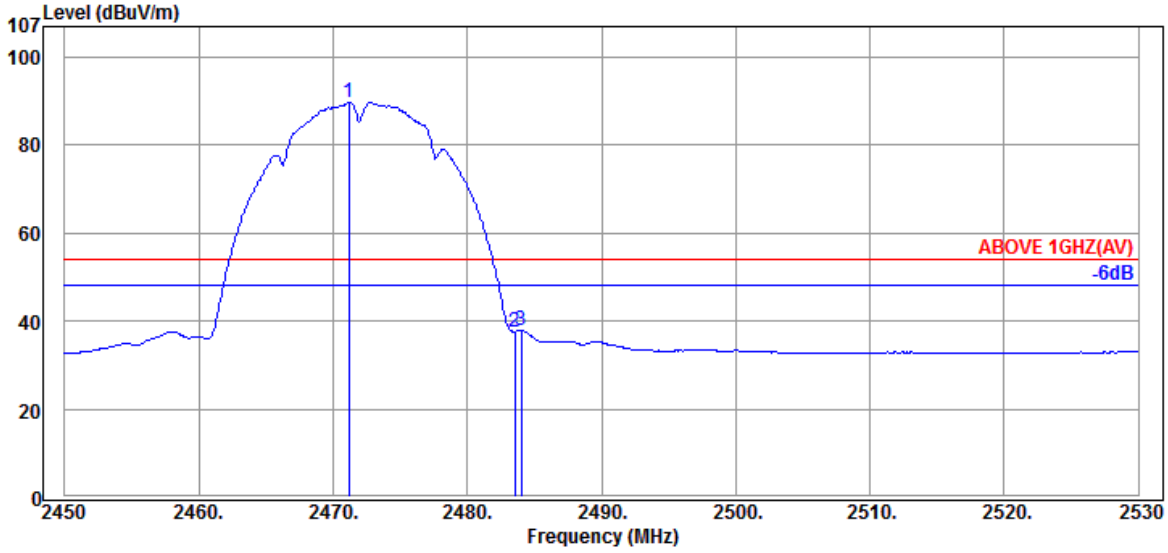
Mode	802.11b	Frequency	TX 2472MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2472.00	32.28	6.67	54.79	93.74	---	---	Peak
2483.52	32.28	6.67	8.22	47.17	74.00	26.83	Peak
2483.92	32.28	6.67	9.57	48.52	74.00	25.48	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2471.20	32.28	6.67	50.82	89.77	---	---	Average
2483.52	32.28	6.67	-1.31	37.64	54.00	16.36	Average
2484.00	32.28	6.67	-1.14	37.81	54.00	16.19	Average

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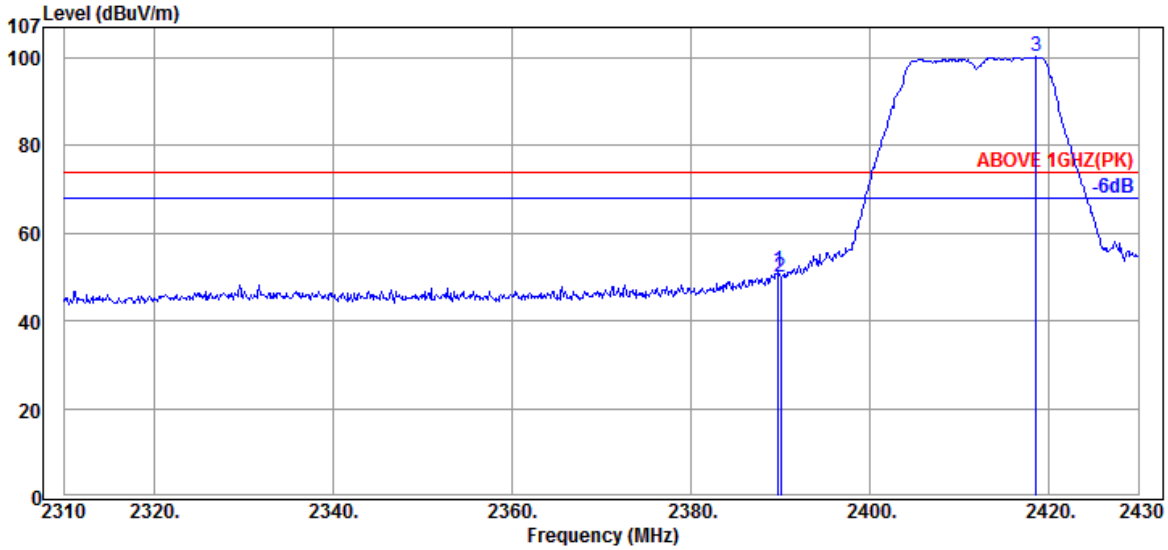
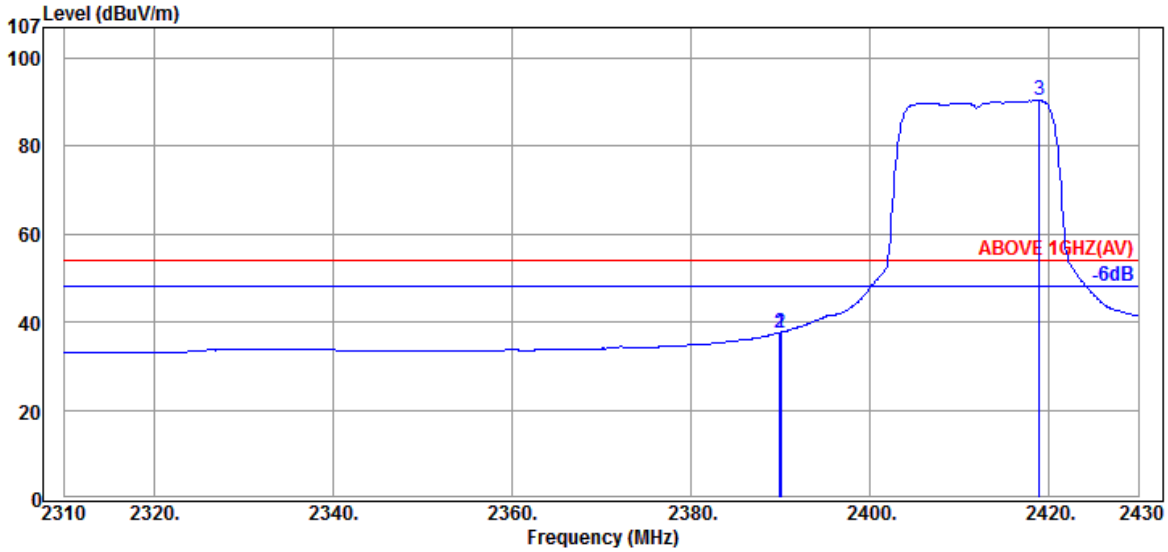
Mode	802.11g	Frequency	TX 2412MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.80	32.16	6.57	47.19	51.35	74.00	22.65	Peak
2390.04	32.16	6.57	45.90	50.06	74.00	23.94	Peak
2418.60	32.18	6.59	96.00	100.20	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	33.49	37.65	54.00	16.35	Average
2390.04	32.16	6.57	33.53	37.69	54.00	16.31	Average
2418.96	32.18	6.59	86.11	90.31	---	---	Average

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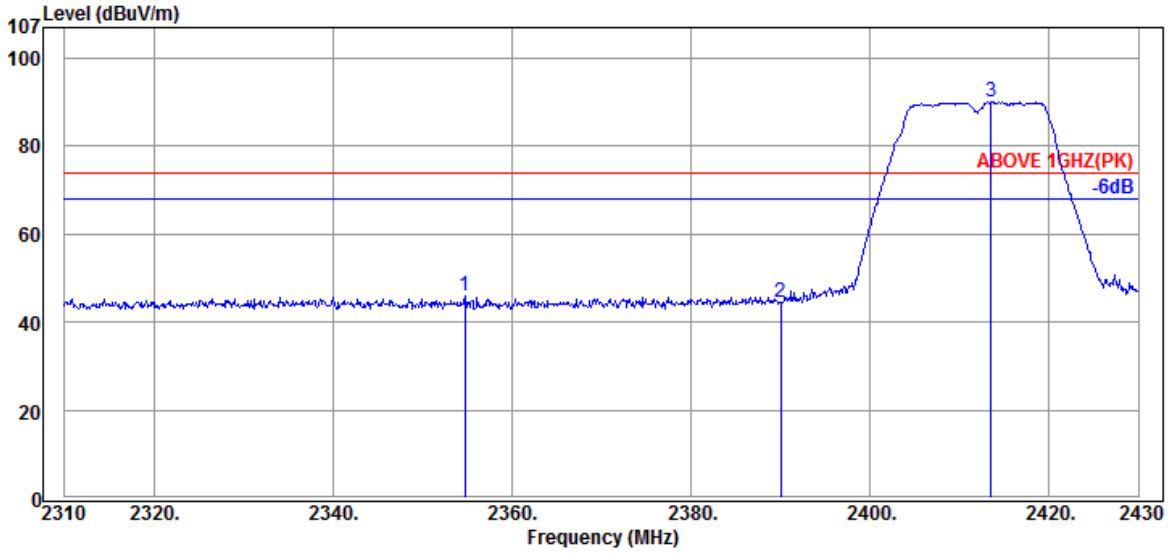
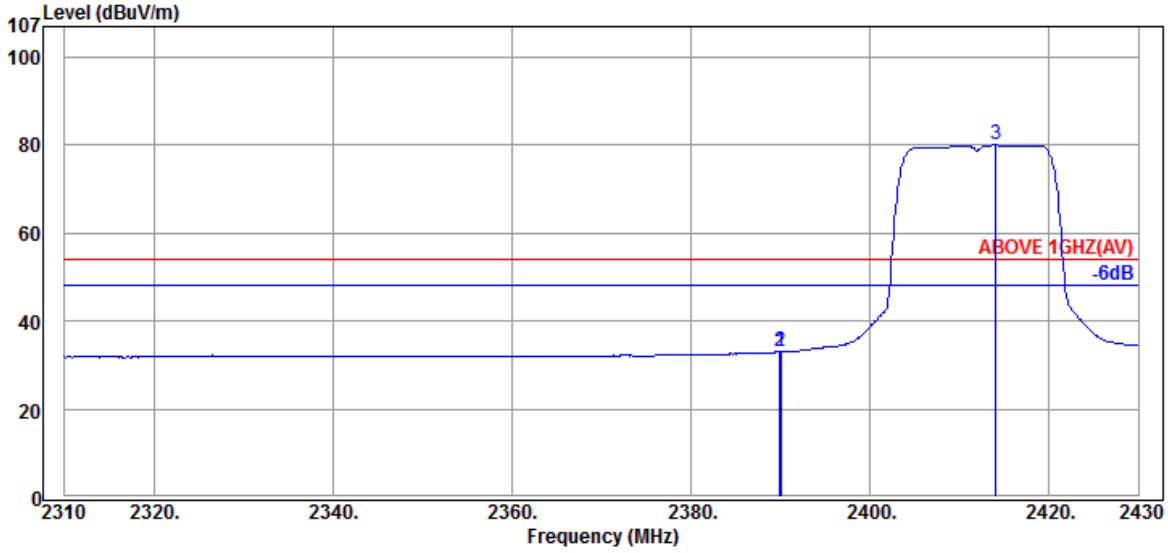
Mode	802.11g	Frequency	TX 2412MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2354.76	32.11	6.53	41.92	46.00	74.00	28.00	Peak
2390.04	32.16	6.57	40.50	44.66	74.00	29.34	Peak
2413.56	32.18	6.59	86.03	90.23	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	28.81	32.97	54.00	21.03	Average
2390.04	32.16	6.57	28.82	32.98	54.00	21.02	Average
2414.04	32.18	6.59	75.91	80.11	---	---	Average

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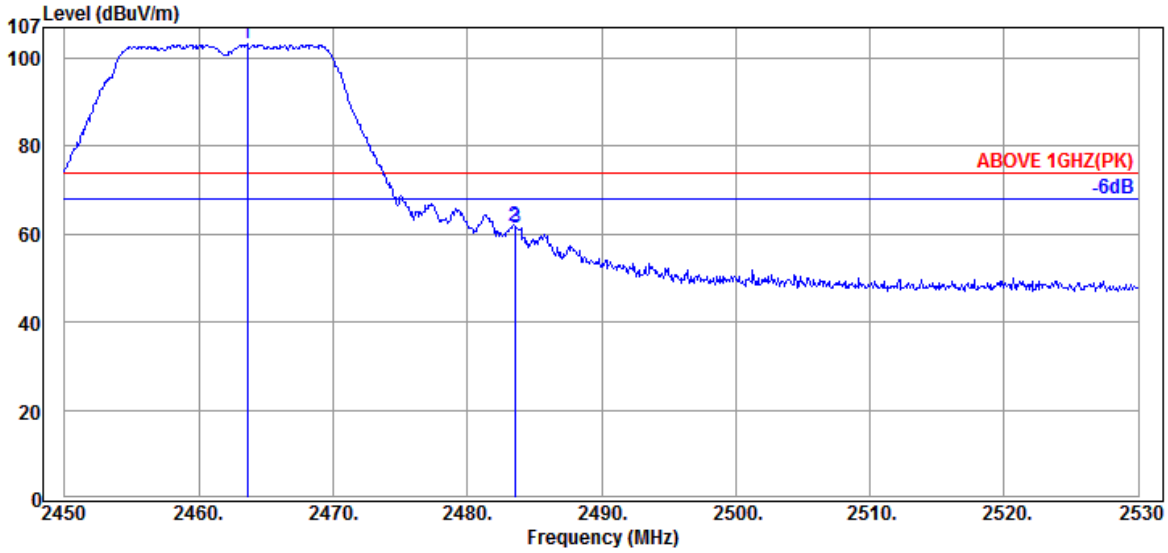
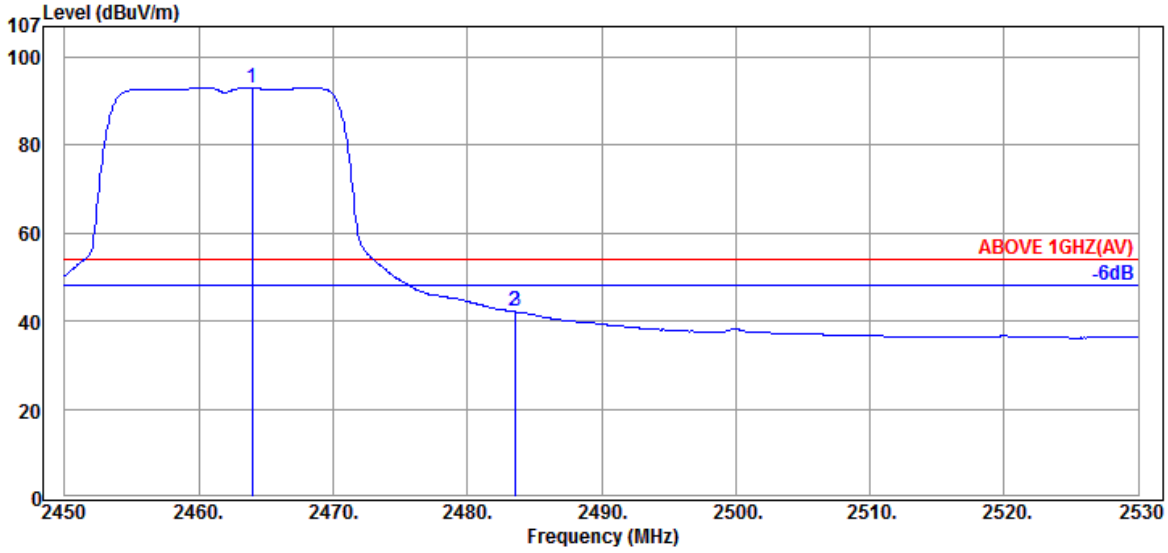
Mode	802.11g	Frequency	TX 2462MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2463.60	32.25	6.65	98.87	103.19	---	---	Peak
2483.52	32.28	6.67	57.38	61.75	74.00	12.25	Peak
2483.60	32.28	6.67	57.22	61.59	74.00	12.41	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2464.00	32.25	6.65	88.83	93.15	---	---	Average
2483.52	32.28	6.67	37.78	42.15	54.00	11.85	Average
2483.60	32.28	6.67	37.76	42.13	54.00	11.87	Average

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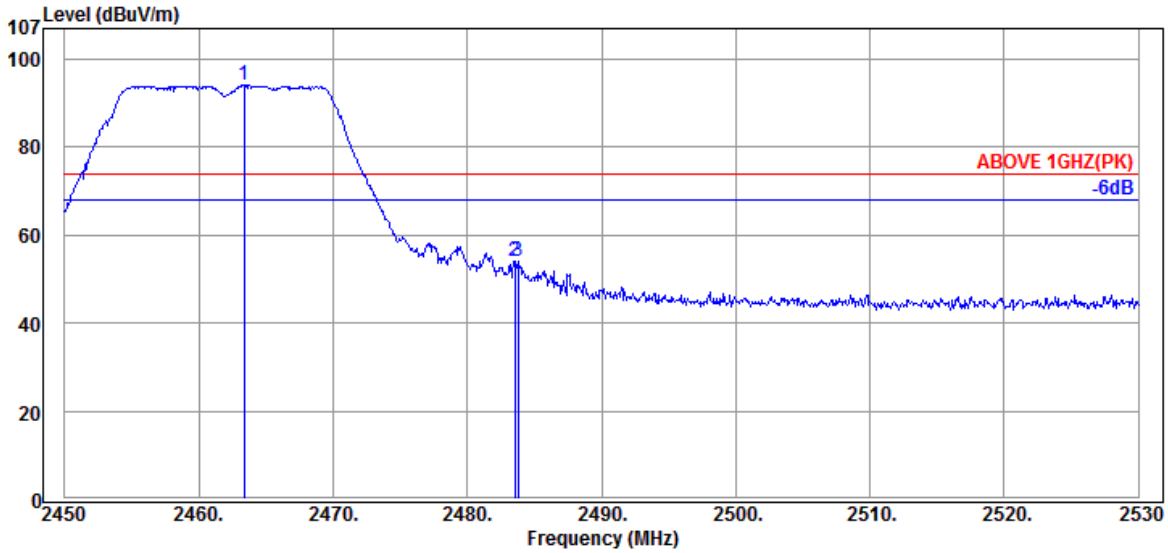
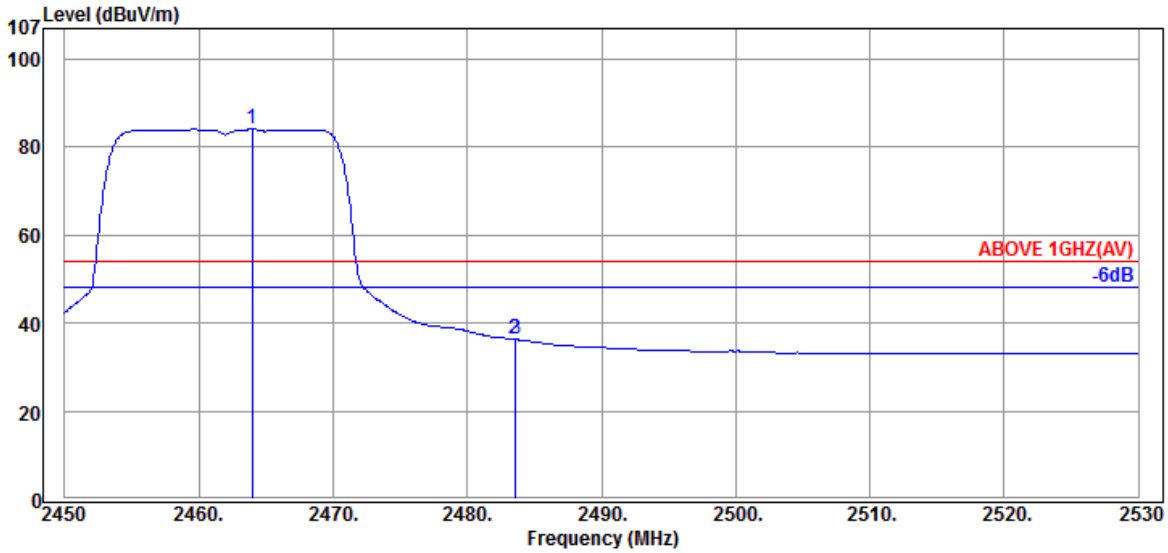
Mode	802.11g	Frequency	TX 2462MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.36	32.25	6.65	89.73	94.05	---	---	Peak
2483.52	32.28	6.67	49.52	53.89	74.00	20.11	Peak
2483.76	32.28	6.67	49.84	54.21	74.00	19.79	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.00	32.25	6.65	79.78	84.10	---	---	Average
2483.52	32.28	6.67	31.89	36.26	54.00	17.74	Average
2483.60	32.28	6.67	31.87	36.24	54.00	17.76	Average

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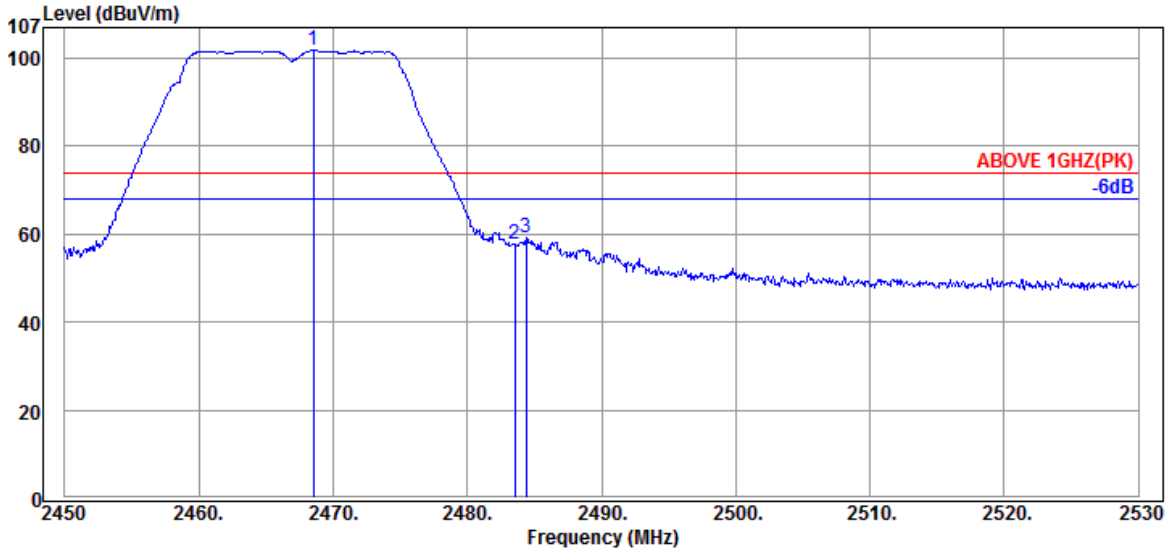
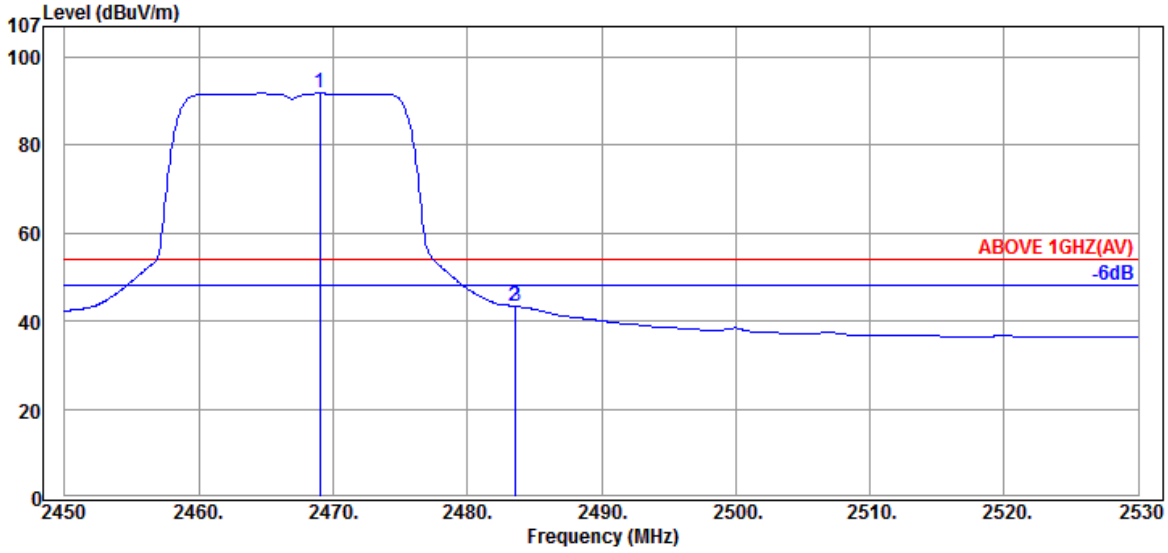
Mode	802.11g	Frequency	TX 2467MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2468.56	32.25	6.65	97.47	101.79	---	---	Peak
2483.52	32.28	6.67	53.52	57.89	74.00	16.11	Peak
2484.40	32.28	6.67	54.76	59.13	74.00	14.87	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2469.04	32.25	6.65	87.58	91.90	---	---	Average
2483.52	32.28	6.67	39.02	43.39	54.00	10.61	Average
2483.60	32.28	6.67	38.99	43.36	54.00	10.64	Average

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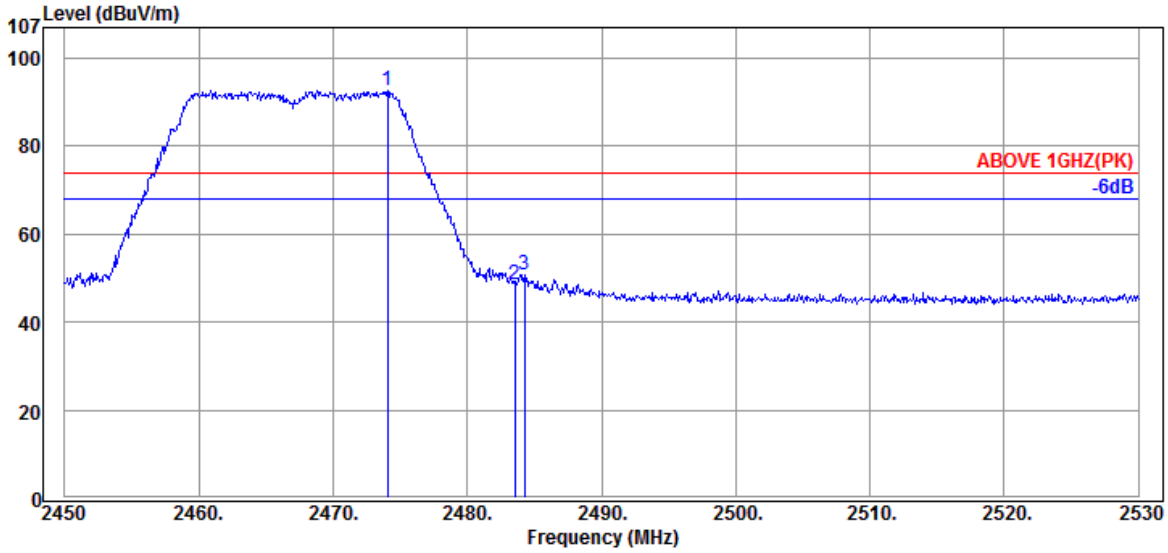
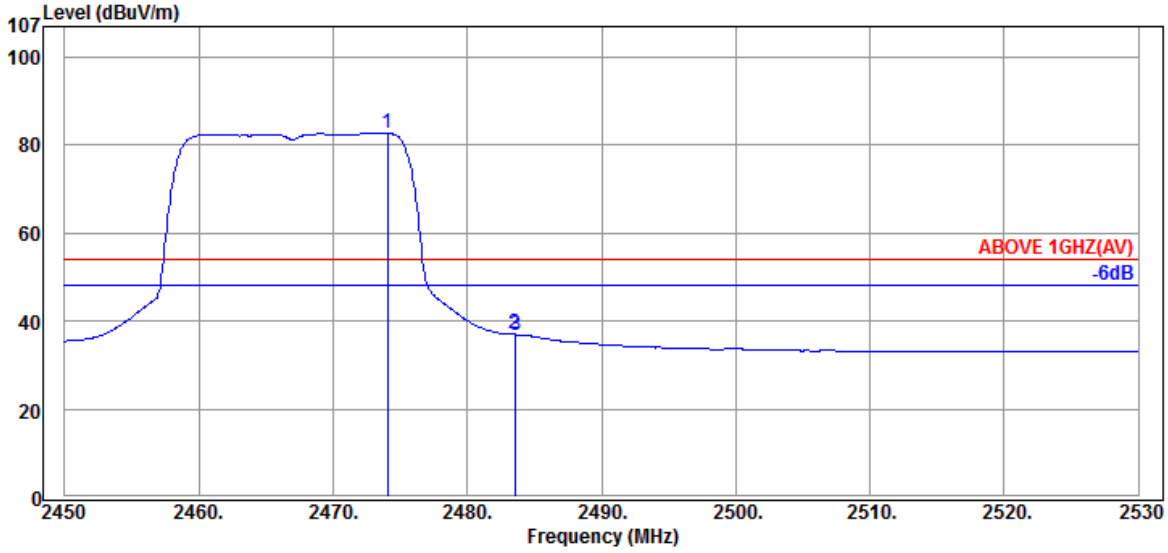
Mode	802.11g	Frequency	TX 2467MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2474.08	32.28	6.67	88.18	92.55	---	---	Peak
2483.52	32.28	6.67	44.29	48.66	74.00	25.34	Peak
2484.24	32.28	6.67	46.43	50.80	74.00	23.20	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2474.08	32.28	6.67	78.33	82.70	---	---	Average
2483.52	32.28	6.67	32.60	36.97	54.00	17.03	Average
2483.60	32.28	6.67	32.58	36.95	54.00	17.05	Average

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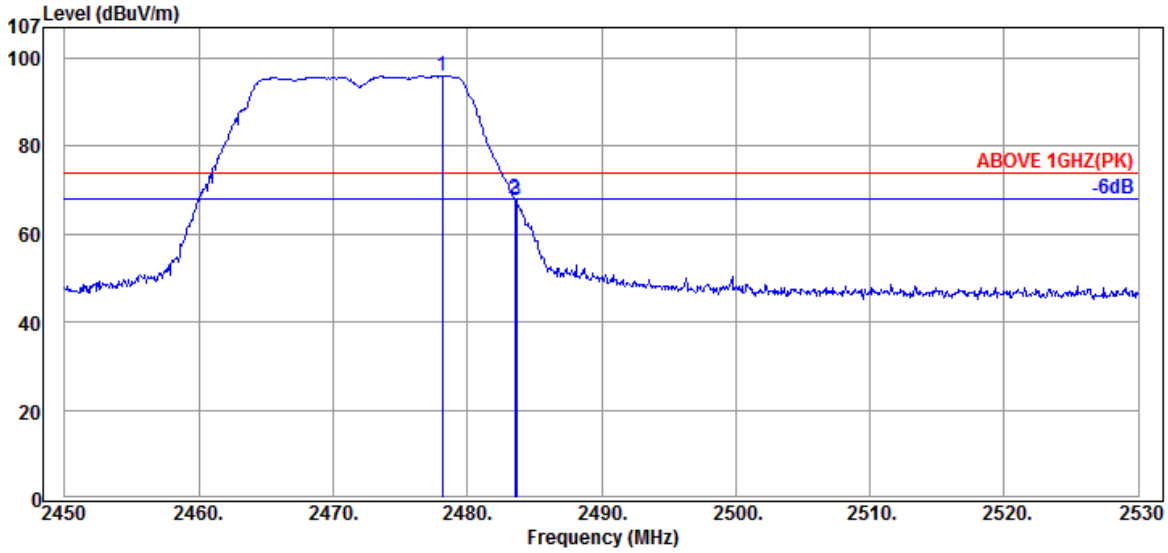
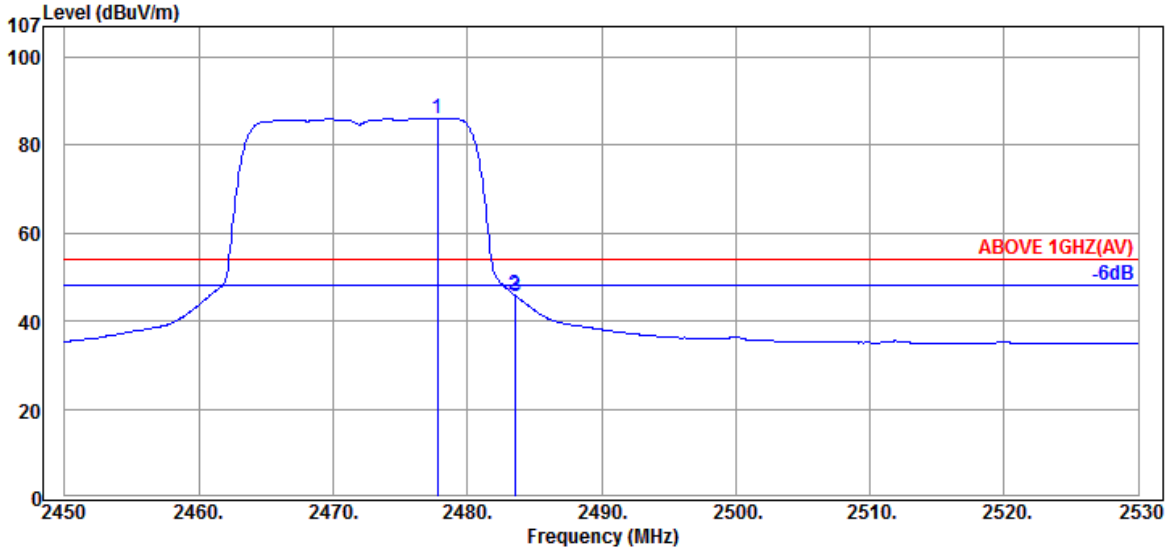
Mode	802.11g	Frequency	TX 2472MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2478.16	32.28	6.67	91.63	96.00	---	---	Peak
2483.52	32.28	6.67	63.81	68.18	74.00	5.82	Peak
2483.68	32.28	6.67	63.15	67.52	74.00	6.48	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2477.76	32.28	6.67	81.71	86.08	---	---	Average
2483.52	32.28	6.67	41.53	45.90	54.00	8.10	Average
2483.60	32.28	6.67	41.37	45.74	54.00	8.26	Average

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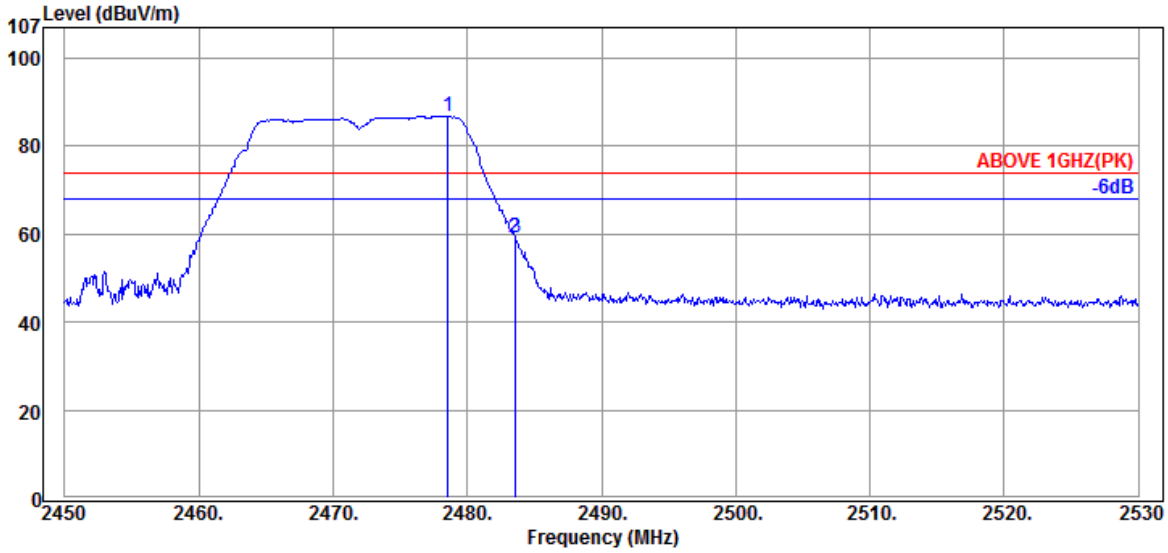
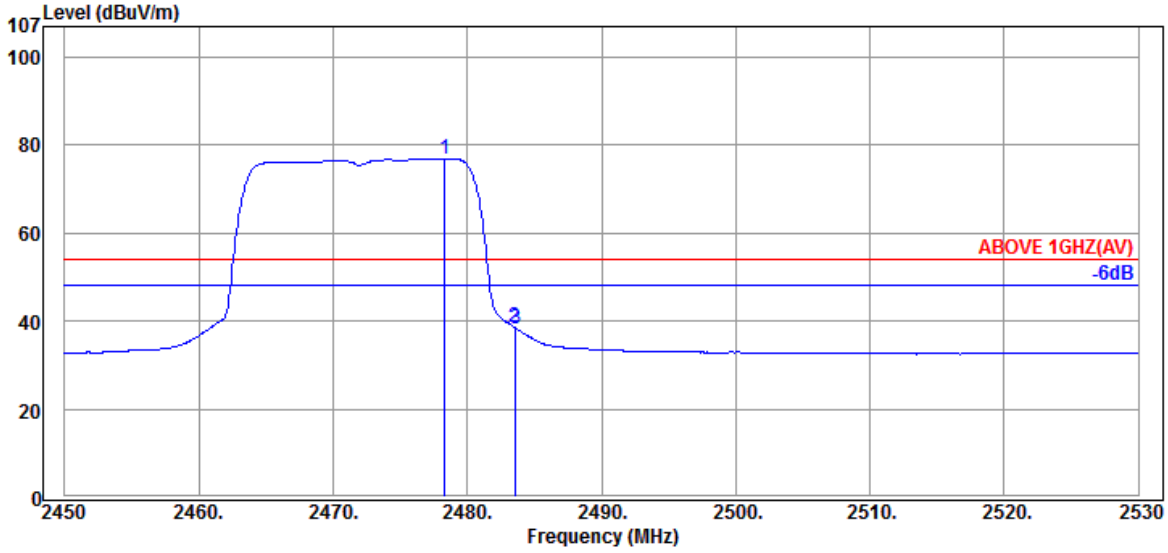
Mode	802.11g	Frequency	TX 2472MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2478.56	32.28	6.67	82.53	86.90	---	---	Peak
2483.52	32.28	6.67	54.83	59.20	74.00	14.80	Peak
2483.60	32.28	6.67	54.81	59.18	74.00	14.82	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2478.32	32.28	6.67	72.60	76.97	---	---	Average
2483.52	32.28	6.67	34.12	38.49	54.00	15.51	Average
2483.60	32.28	6.67	33.95	38.32	54.00	15.68	Average

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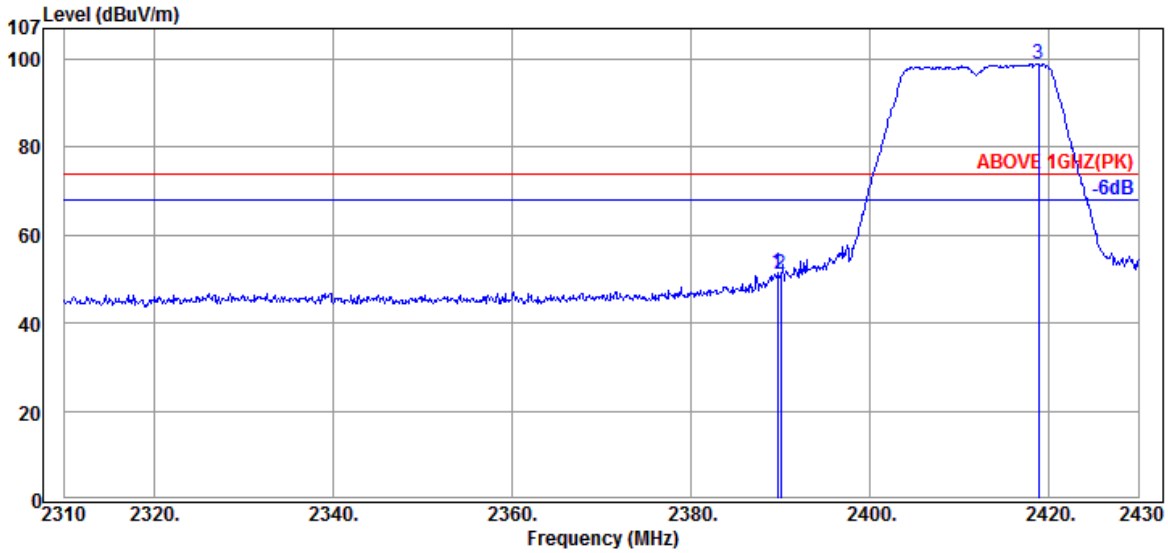
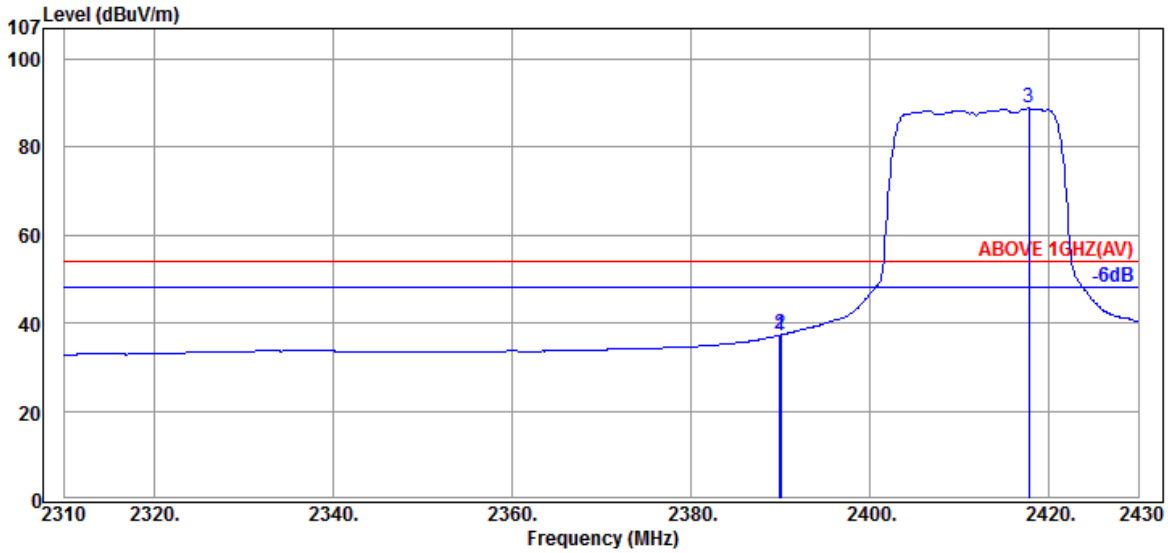
Fax: +886 2 26099303

Mode	802.11n-HT20	Frequency	TX 2412MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.57	12.58	51.31	74.00	22.69	Peak
2390.04	32.16	6.57	12.45	51.18	74.00	22.82	Peak
2418.84	32.18	6.59	60.11	98.88	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	-1.43	37.30	54.00	16.70	Average
2390.04	32.16	6.57	-1.41	37.32	54.00	16.68	Average
2417.76	32.18	6.59	50.05	88.82	---	---	Average

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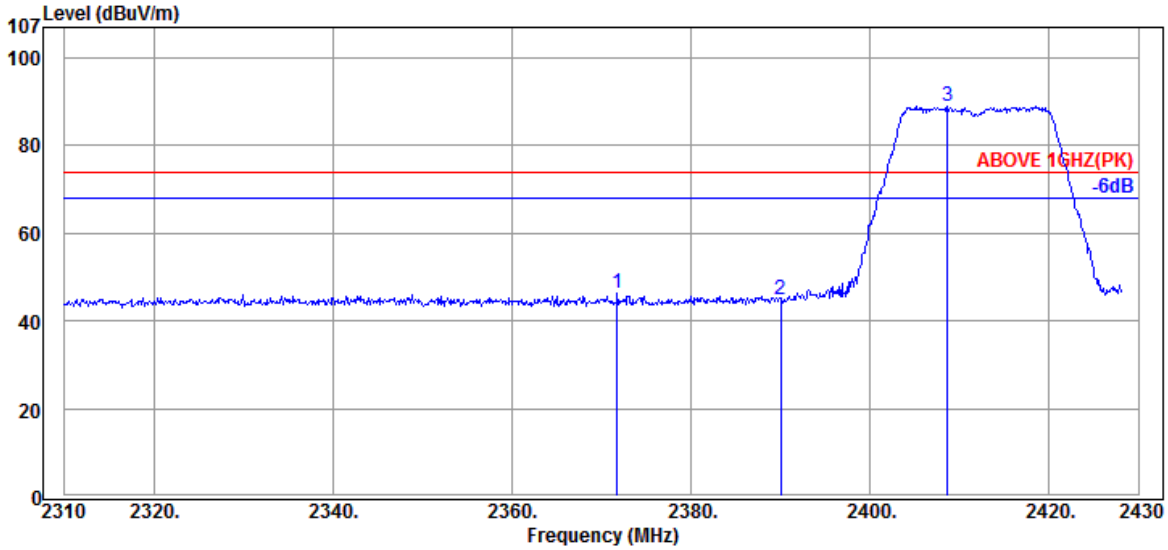
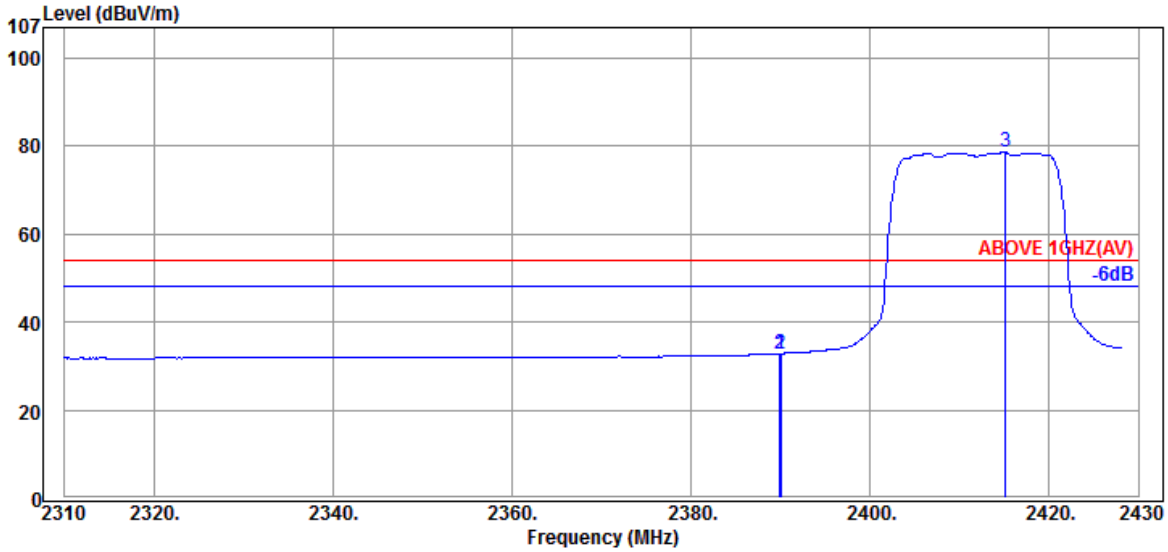
Mode	802.11n-HT20	Frequency	TX 2412MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2371.80	32.13	6.55	7.67	46.35	74.00	27.65	Peak
2390.04	32.16	6.57	5.95	44.68	74.00	29.32	Peak
2408.64	32.18	6.59	50.28	89.05	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	-5.87	32.86	54.00	21.14	Average
2390.04	32.16	6.57	-5.86	32.87	54.00	21.13	Average
2415.12	32.18	6.59	39.81	78.58	---	---	Average

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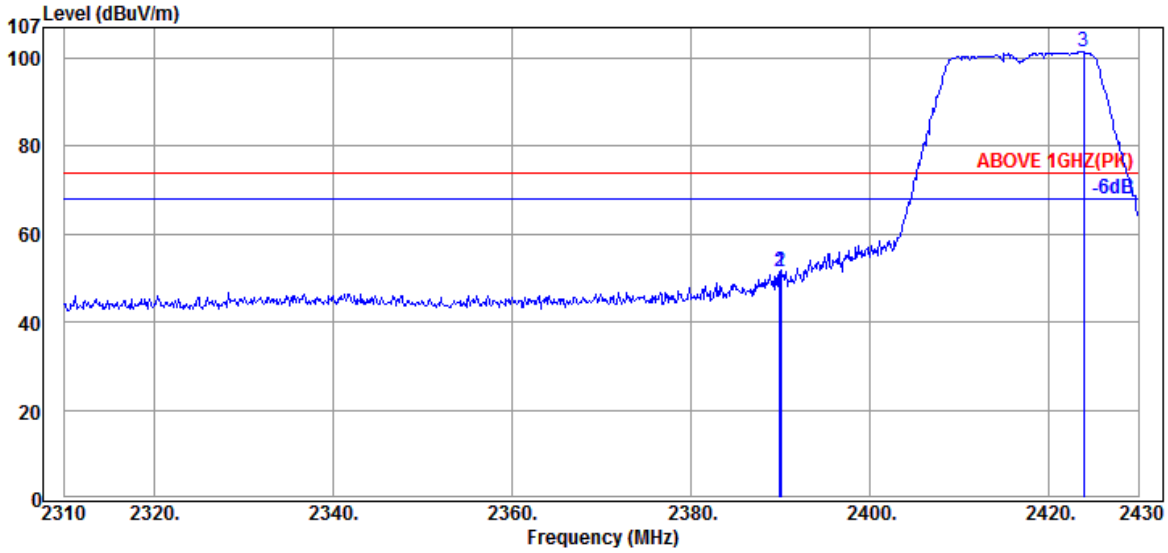
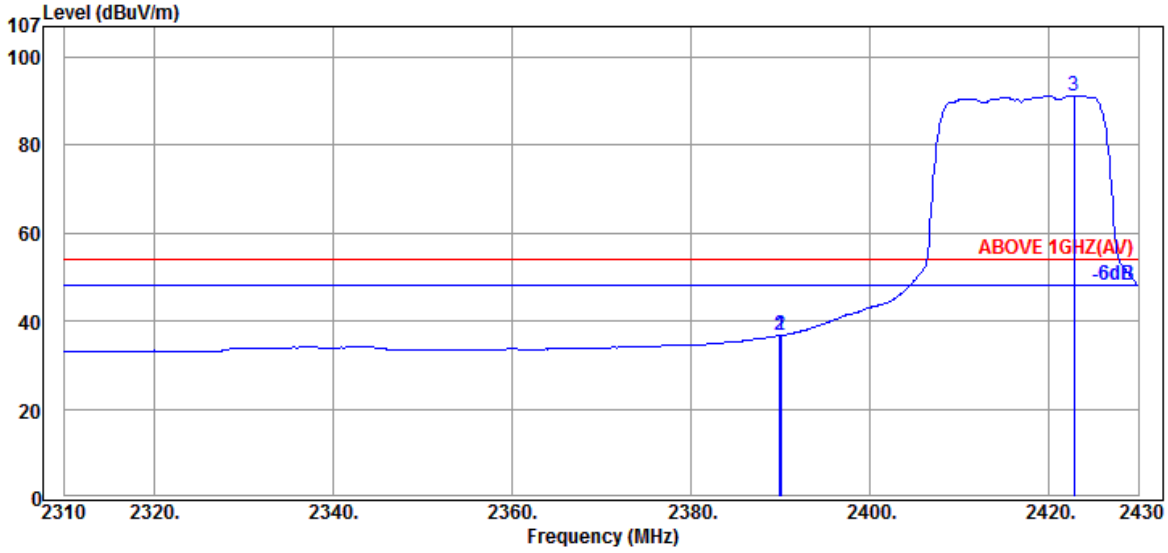
Mode	802.11n-HT20	Frequency	TX 2417MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	12.85	51.58	74.00	22.42	Peak
2390.04	32.16	6.57	12.90	51.63	74.00	22.37	Peak
2423.88	32.20	6.61	62.55	101.36	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	-2.03	36.70	54.00	17.30	Average
2390.04	32.16	6.57	-1.98	36.75	54.00	17.25	Average
2422.80	32.20	6.61	52.54	91.35	---	---	Average

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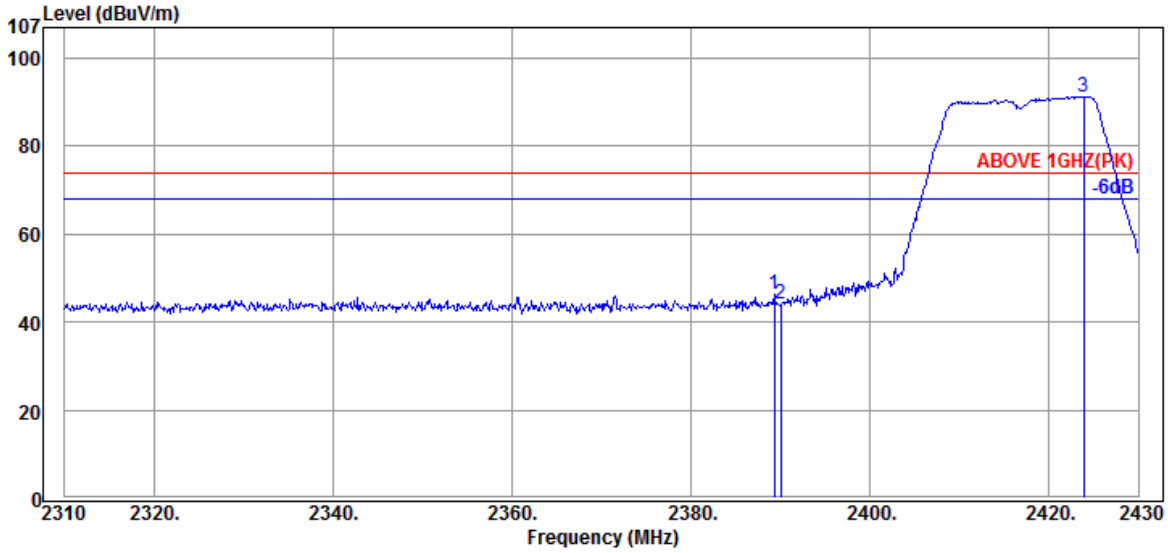
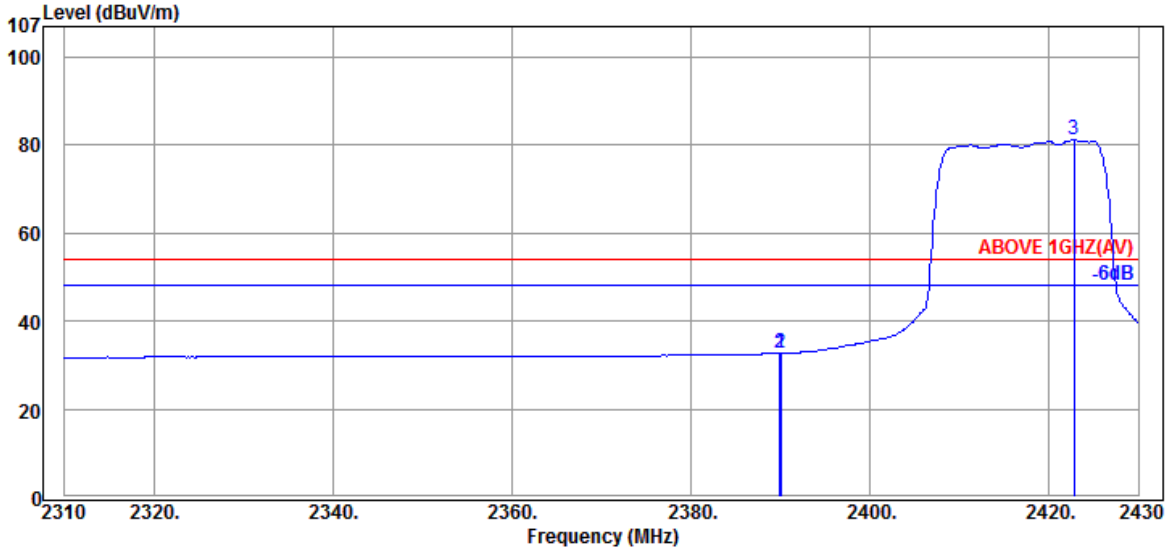
Mode	802.11n-HT20	Frequency	TX 2417MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.32	32.16	6.57	7.43	46.16	74.00	27.84	Peak
2390.04	32.16	6.57	5.52	44.25	74.00	29.75	Peak
2423.88	32.20	6.61	52.52	91.33	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.92	32.16	6.57	-6.01	32.72	54.00	21.28	Average
2390.04	32.16	6.57	-6.03	32.70	54.00	21.30	Average
2422.80	32.20	6.61	42.35	81.16	---	---	Average

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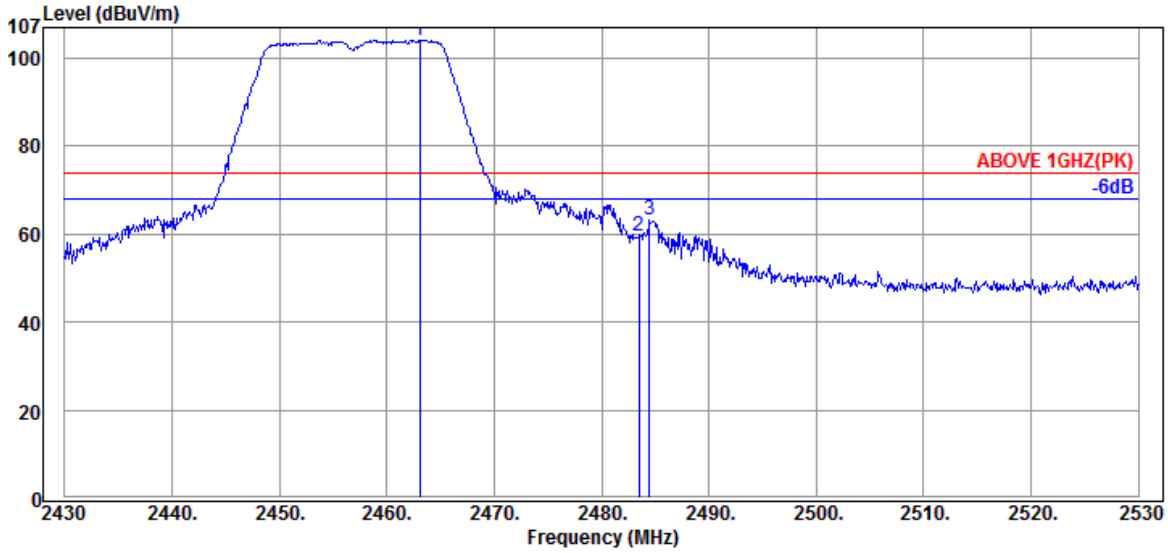
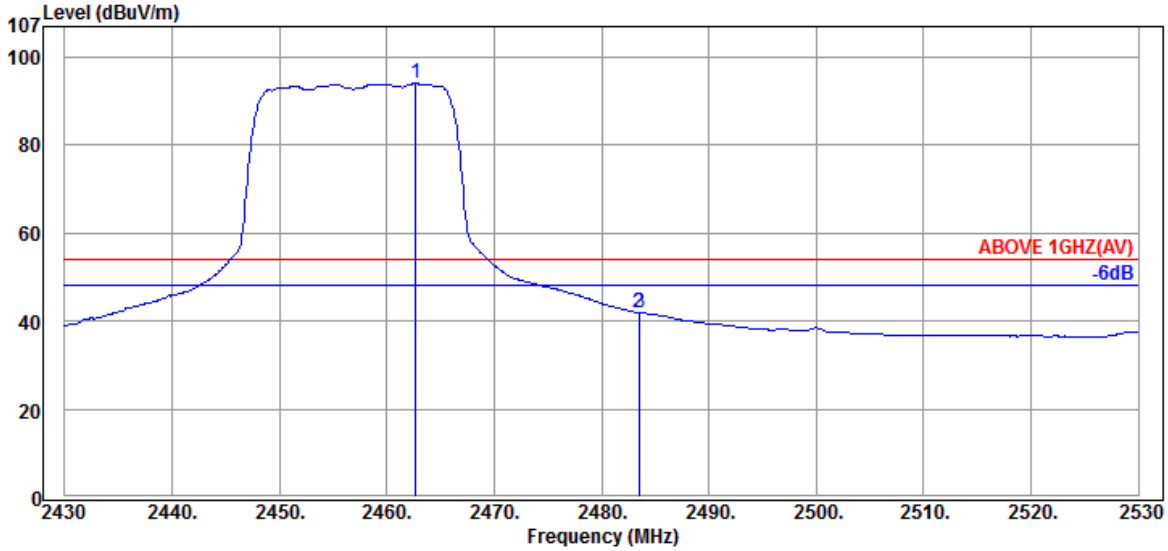
Mode	802.11n-HT20	Frequency	TX 2457MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2463.10	32.25	6.65	65.12	104.02	---	---	Peak
2483.50	32.28	6.67	20.61	59.56	74.00	14.44	Peak
2484.50	32.28	6.67	24.25	63.20	74.00	10.80	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2462.70	32.25	6.65	55.10	94.00	---	---	Average
2483.50	32.28	6.67	2.98	41.93	54.00	12.07	Average
2483.60	32.28	6.67	2.96	41.91	54.00	12.09	Average

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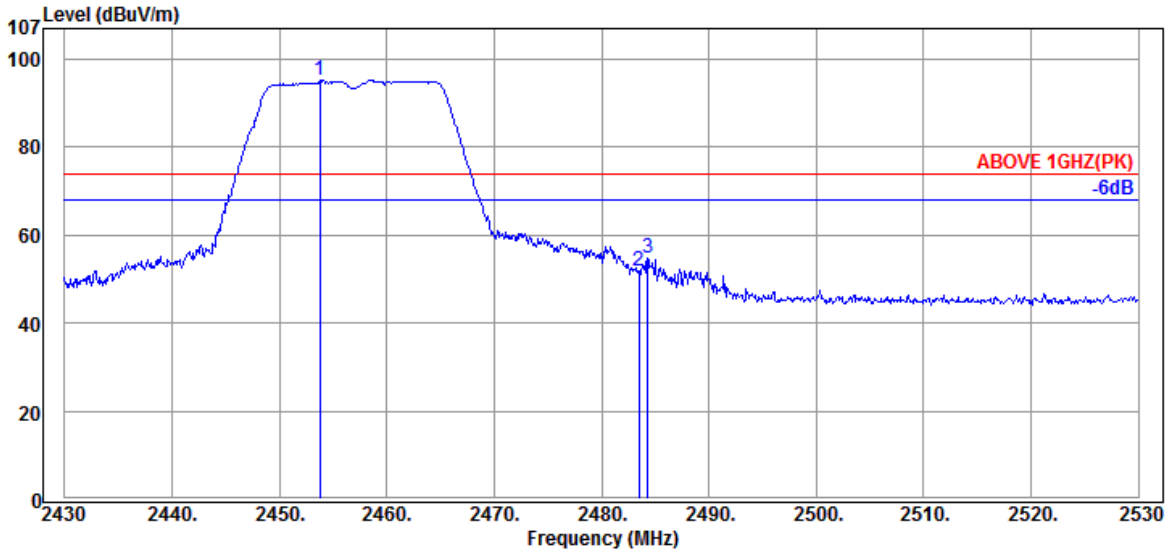
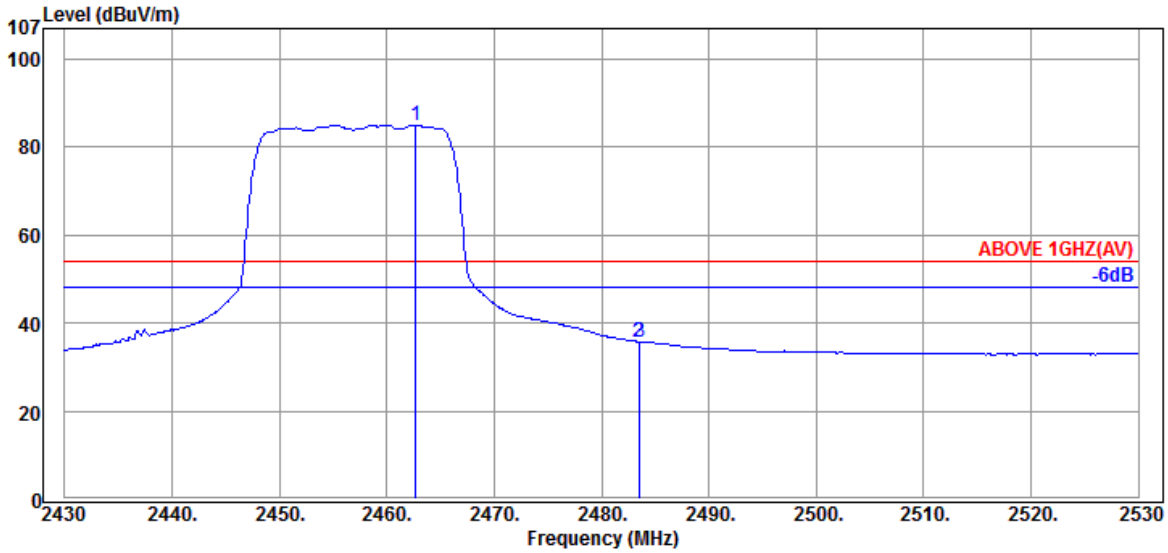
Mode	802.11n-HT20	Frequency	TX 2457MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2453.80	32.25	6.65	56.41	95.31	---	---	Peak
2483.50	32.28	6.67	13.06	52.01	74.00	21.99	Peak
2484.30	32.28	6.67	15.87	54.82	74.00	19.18	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.70	32.25	6.65	46.08	84.98	---	---	Average
2483.50	32.28	6.67	-3.19	35.76	54.00	18.24	Average
2483.60	32.28	6.67	-3.21	35.74	54.00	18.26	Average

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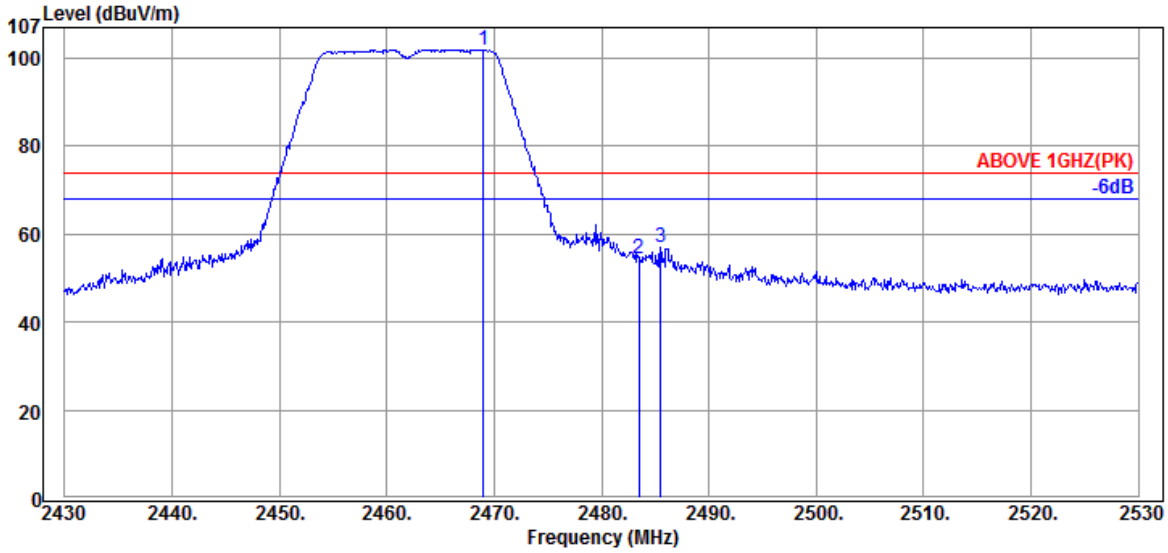
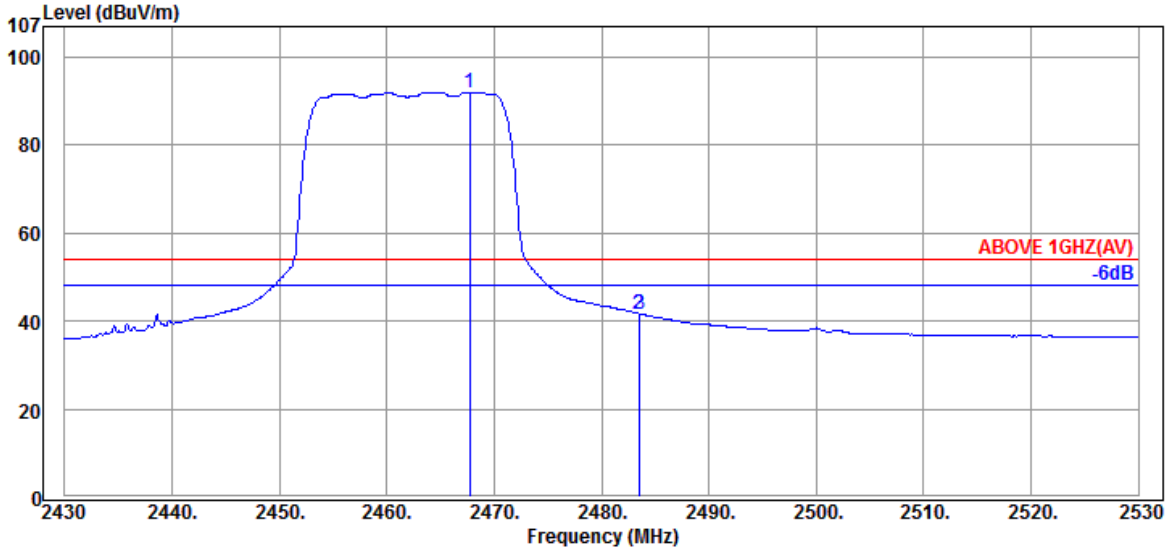
Mode	802.11n-HT20	Frequency	TX 2462MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2469.00	32.25	6.65	63.13	102.03	---	---	Peak
2483.50	32.28	6.67	15.53	54.48	74.00	19.52	Peak
2485.50	32.28	6.67	17.98	56.93	74.00	17.07	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2467.70	32.25	6.65	53.07	91.97	---	---	Average
2483.50	32.28	6.67	2.77	41.72	54.00	12.28	Average
2483.60	32.28	6.67	2.71	41.66	54.00	12.34	Average

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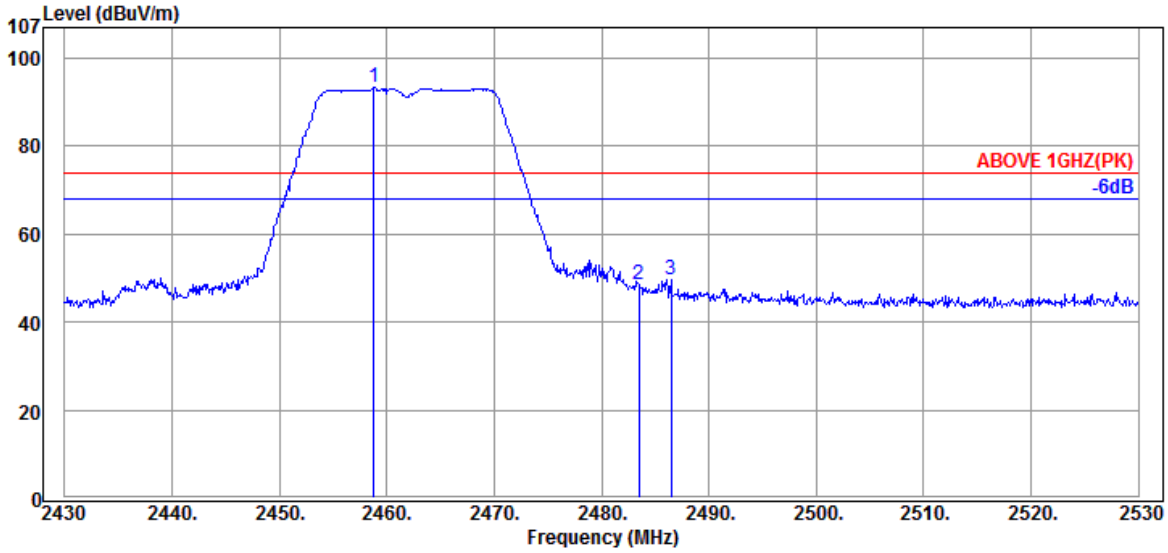
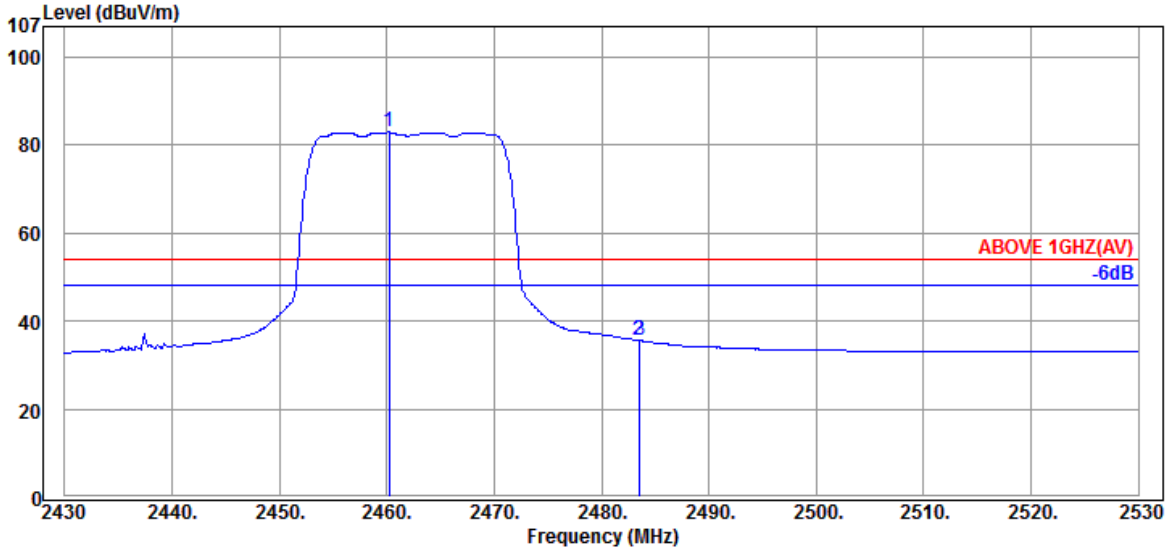
Mode	802.11n-HT20	Frequency	TX 2462MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2458.80	32.25	6.65	54.54	93.44	---	---	Peak
2483.50	32.28	6.67	9.57	48.52	74.00	25.48	Peak
2486.50	32.28	6.67	10.65	49.60	74.00	24.40	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2460.20	32.25	6.65	44.03	82.93	---	---	Average
2483.50	32.28	6.67	-3.36	35.59	54.00	18.41	Average
2483.60	32.28	6.67	-3.38	35.57	54.00	18.43	Average

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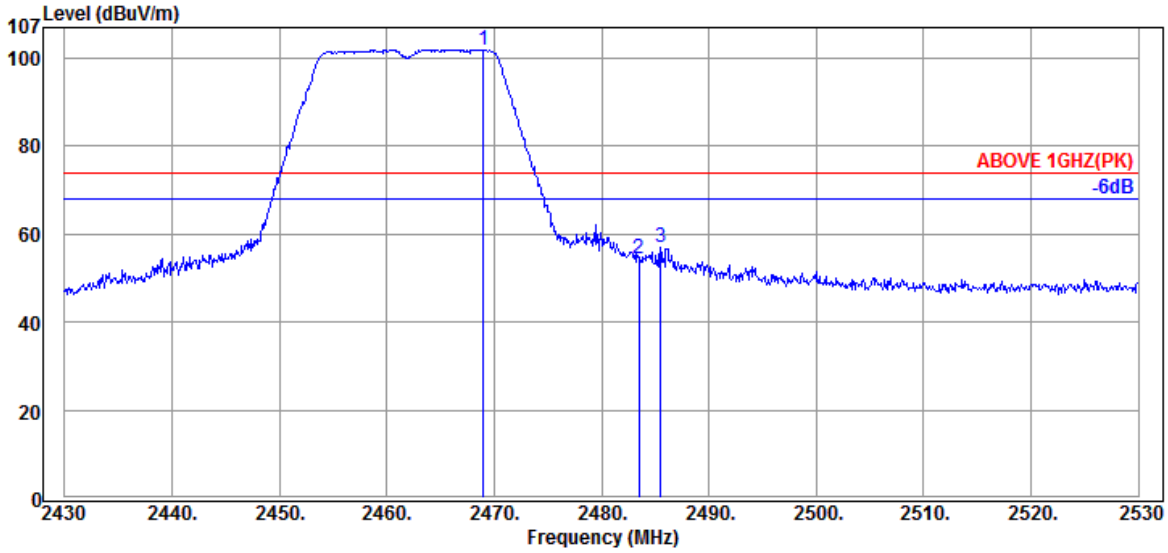
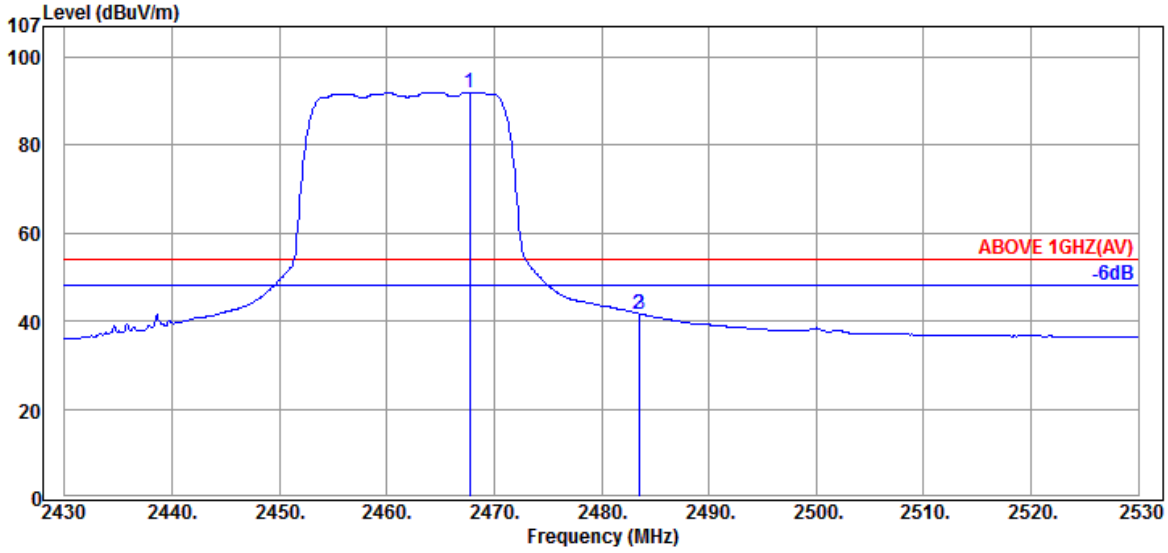
Mode	802.11n-HT20	Frequency	TX 2462MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2469.00	32.25	6.65	63.13	102.03	---	---	Peak
2483.50	32.28	6.67	15.53	54.48	74.00	19.52	Peak
2485.50	32.28	6.67	17.98	56.93	74.00	17.07	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2467.70	32.25	6.65	53.07	91.97	---	---	Average
2483.50	32.28	6.67	2.77	41.72	54.00	12.28	Average
2483.60	32.28	6.67	2.71	41.66	54.00	12.34	Average

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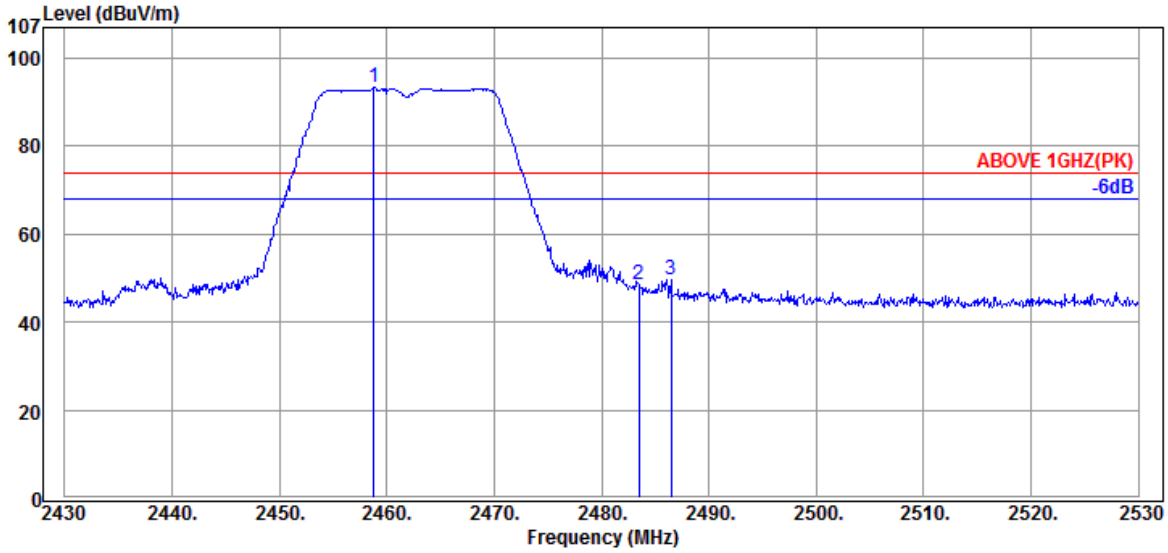
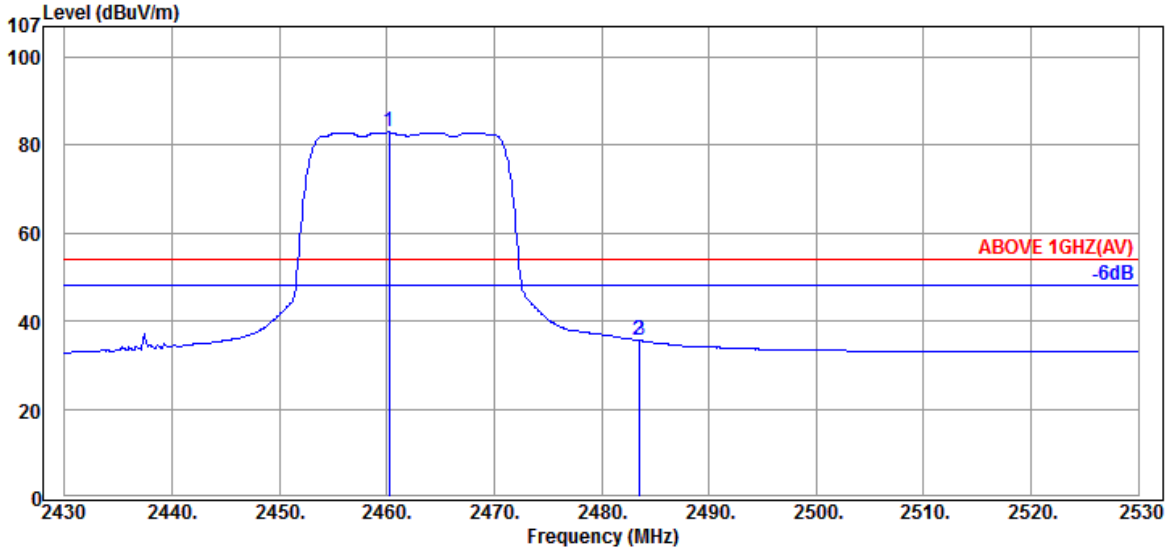
Mode	802.11n-HT20	Frequency	TX 2462MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2458.80	32.25	6.65	54.54	93.44	---	---	Peak
2483.50	32.28	6.67	9.57	48.52	74.00	25.48	Peak
2486.50	32.28	6.67	10.65	49.60	74.00	24.40	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2460.20	32.25	6.65	44.03	82.93	---	---	Average
2483.50	32.28	6.67	-3.36	35.59	54.00	18.41	Average
2483.60	32.28	6.67	-3.38	35.57	54.00	18.43	Average

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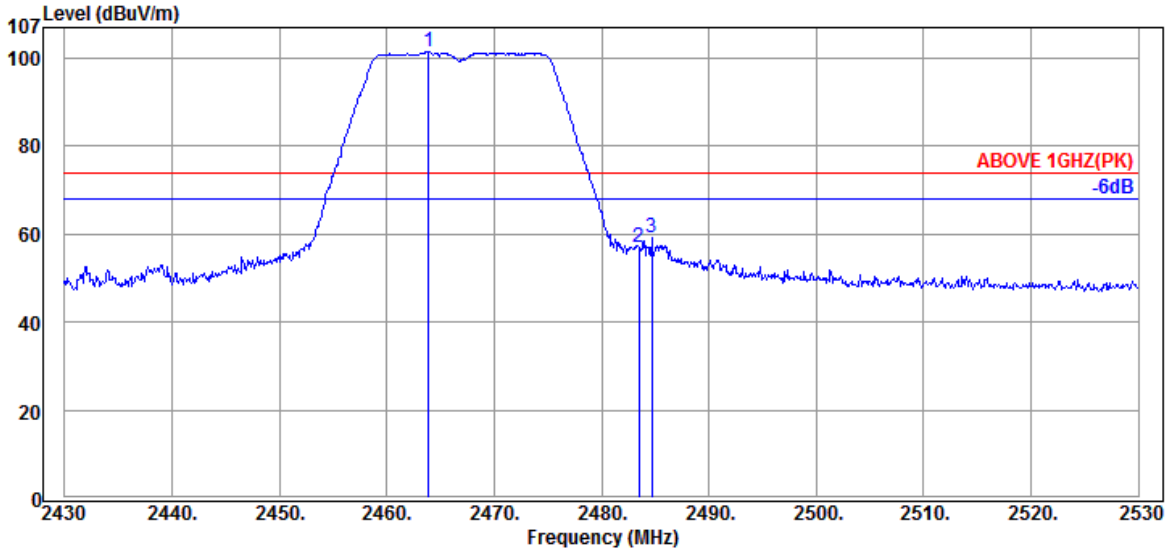
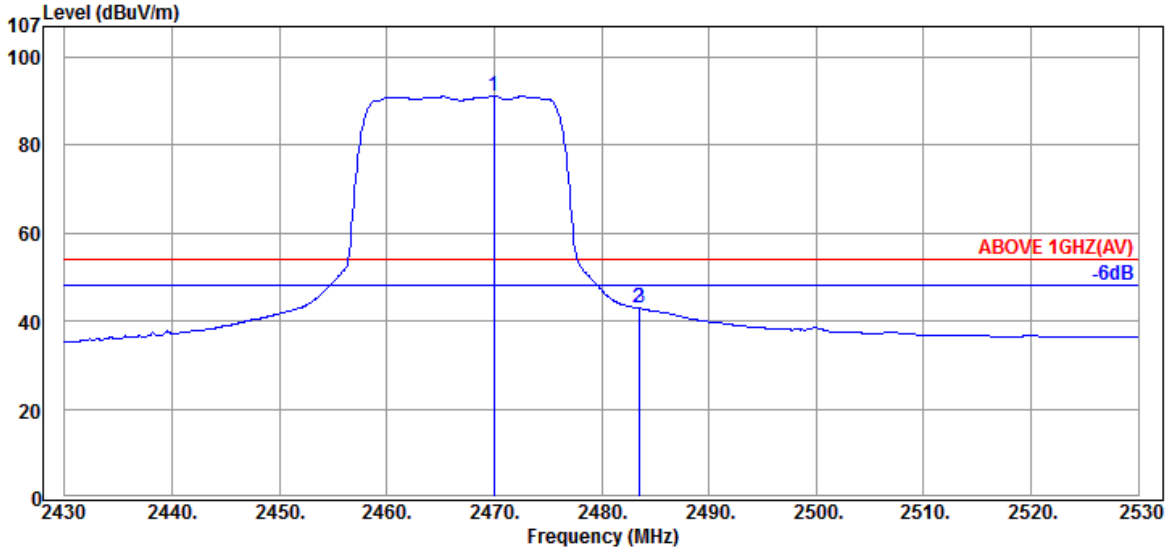
Mode	802.11n-HT20	Frequency	TX 2467MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2463.90	32.25	6.65	62.62	101.52	---	---	Peak
2483.50	32.28	6.67	18.18	57.13	74.00	16.87	Peak
2484.70	32.28	6.67	20.14	59.09	74.00	14.91	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2470.00	32.25	6.65	52.27	91.17	---	---	Average
2483.50	32.28	6.67	4.02	42.97	54.00	11.03	Average
2483.60	32.28	6.67	3.98	42.93	54.00	11.07	Average

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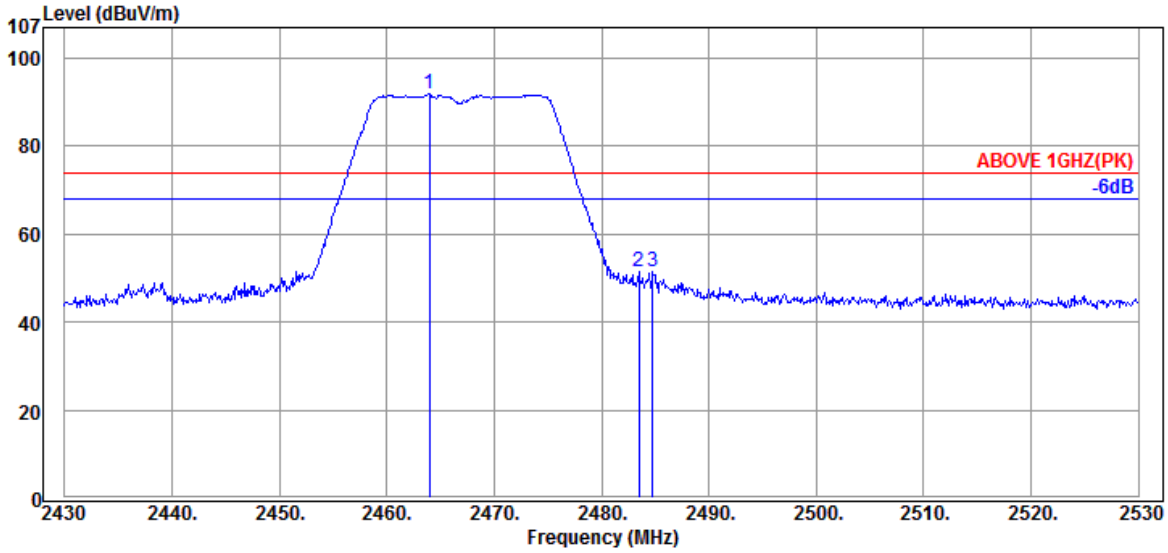
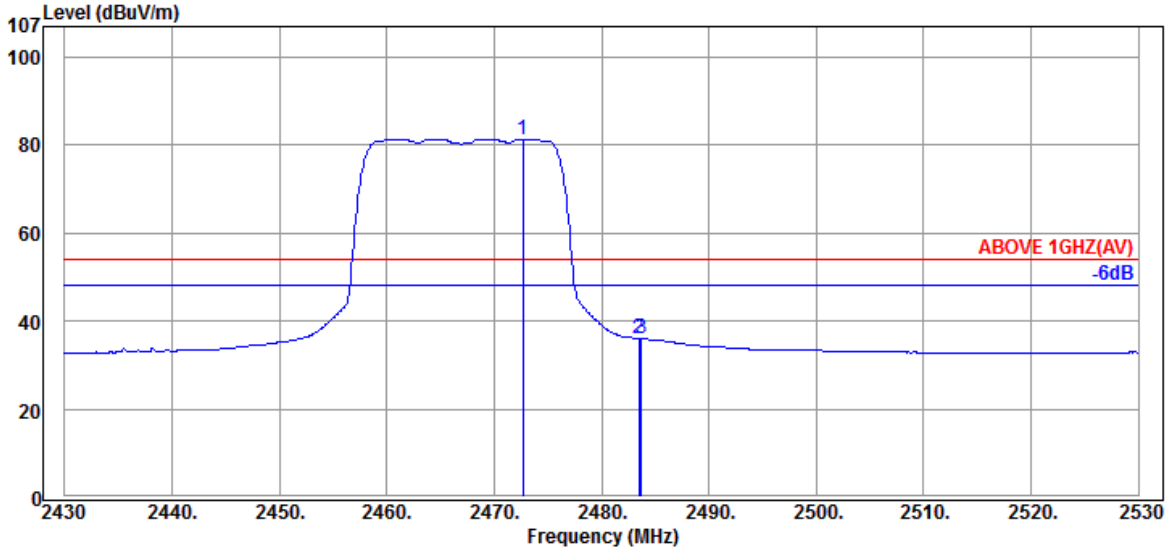
Mode	802.11n-HT20	Frequency	TX 2467MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2464.00	32.25	6.65	52.93	91.83	---	---	Peak
2483.50	32.28	6.67	12.36	51.31	74.00	22.69	Peak
2484.80	32.28	6.67	12.71	51.66	74.00	22.34	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2472.70	32.28	6.67	42.48	81.43	---	---	Average
2483.50	32.28	6.67	-2.88	36.07	54.00	17.93	Average
2483.70	32.28	6.67	-2.94	36.01	54.00	17.99	Average

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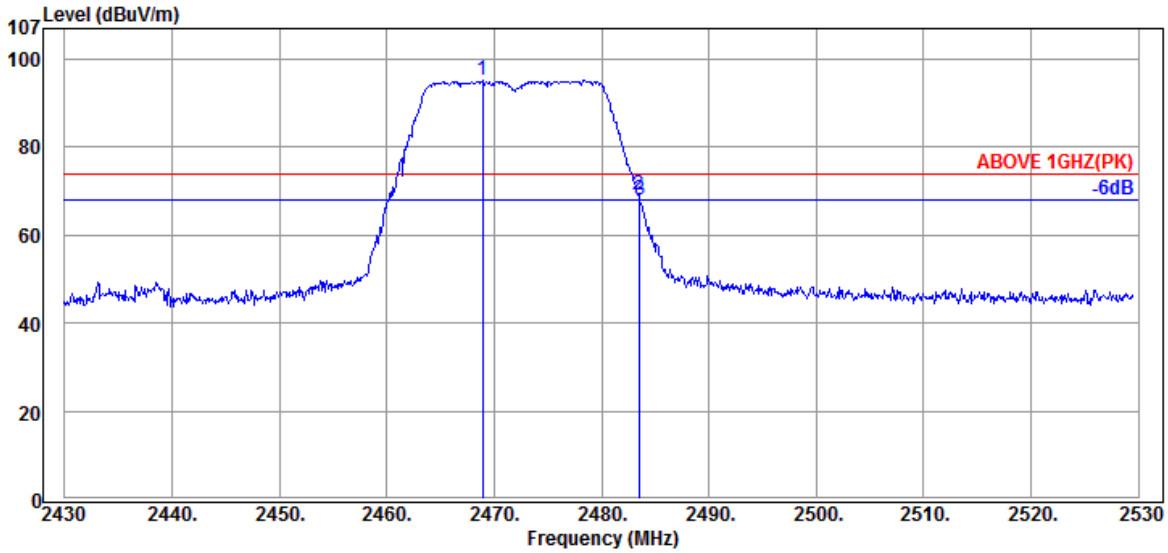
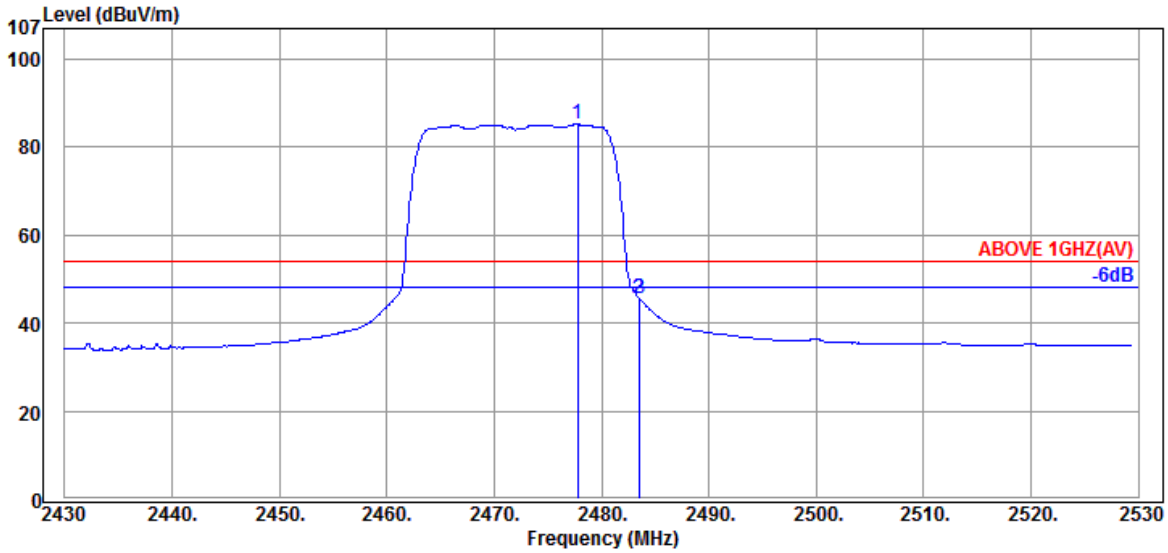
Mode	802.11n-HT20	Frequency	TX 2472MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.90	32.25	6.65	56.49	95.39	---	---	Peak
2483.50	32.28	6.67	30.33	69.28	74.00	4.72	Peak
2483.60	32.28	6.67	29.03	67.98	74.00	6.02	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2477.80	32.28	6.67	46.22	85.17	---	---	Average
2483.50	32.28	6.67	6.75	45.70	54.00	8.30	Average
2483.60	32.28	6.67	6.50	45.45	54.00	8.55	Average

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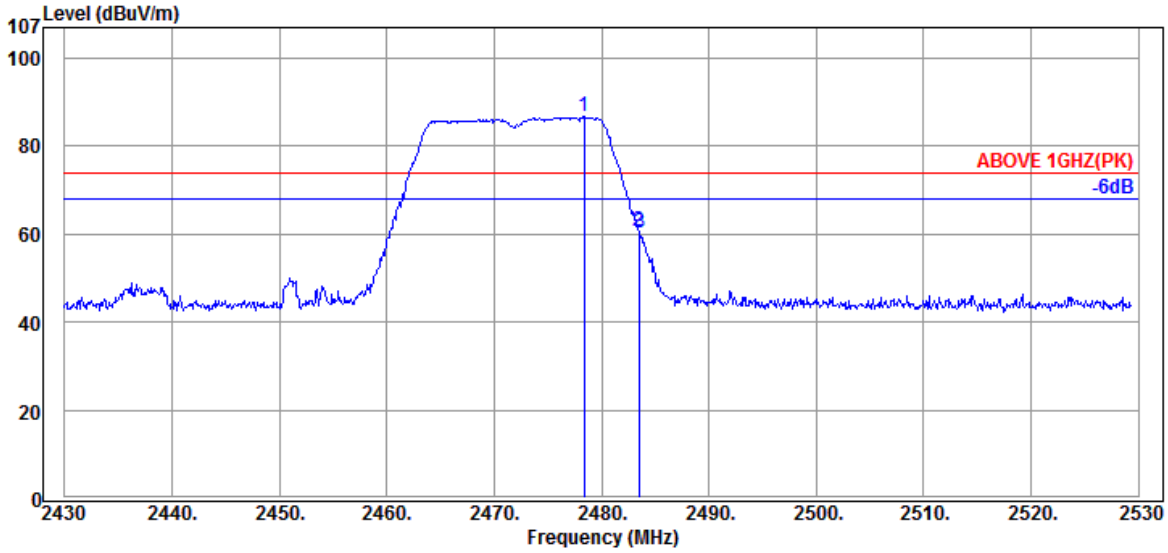
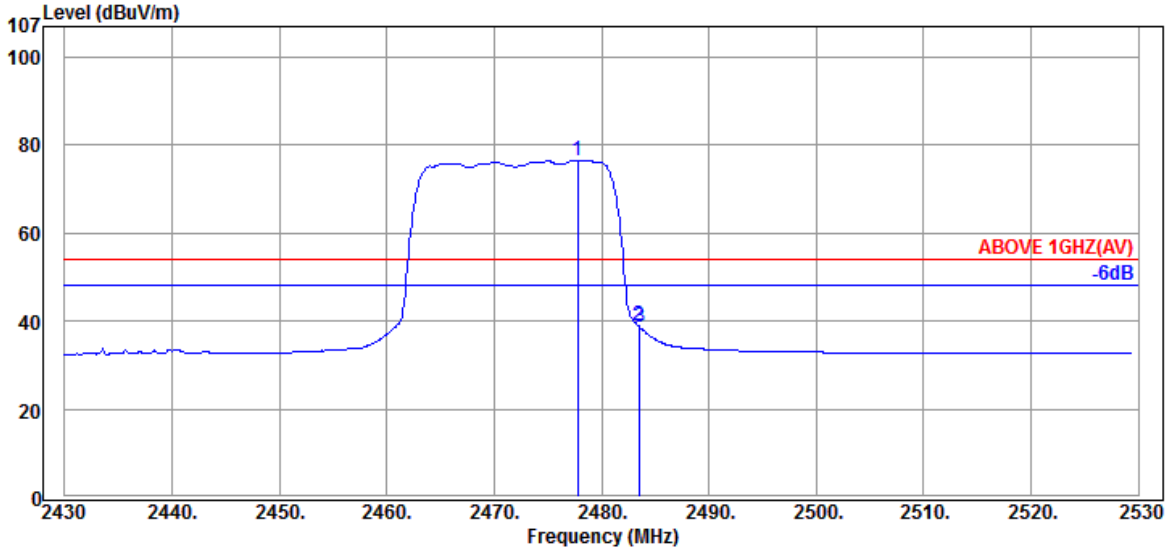
Mode	802.11n-HT20	Frequency	TX 2472MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2478.40	32.28	6.67	47.67	86.62	---	---	Peak
2483.50	32.28	6.67	21.90	60.85	74.00	13.15	Peak
2483.60	32.28	6.67	21.39	60.34	74.00	13.66	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2477.80	32.28	6.67	37.65	76.60	---	---	Average
2483.50	32.28	6.67	-0.12	38.83	54.00	15.17	Average
2483.60	32.28	6.67	-0.33	38.62	54.00	15.38	Average

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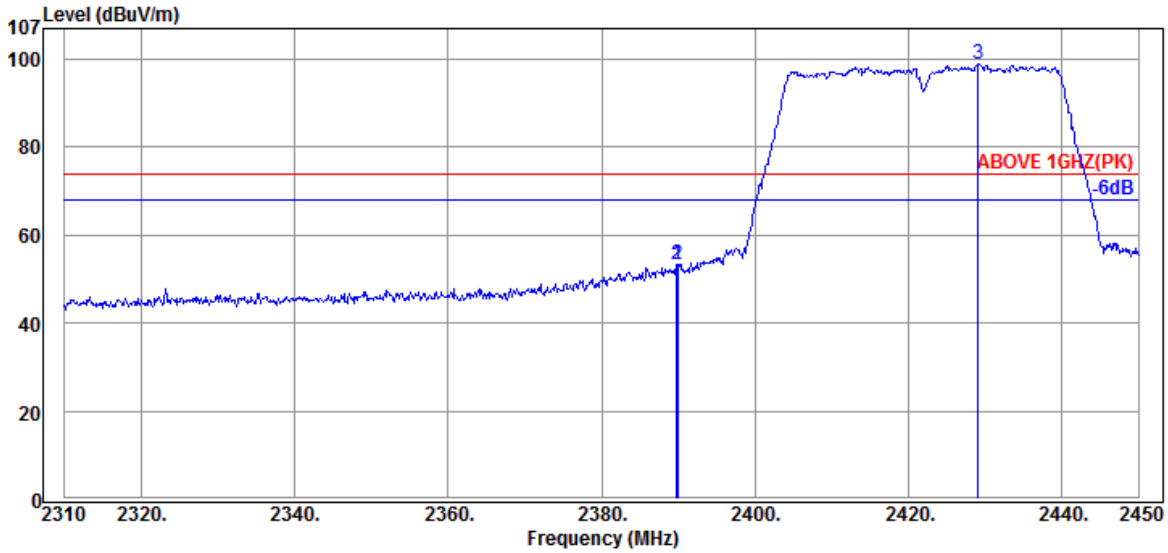
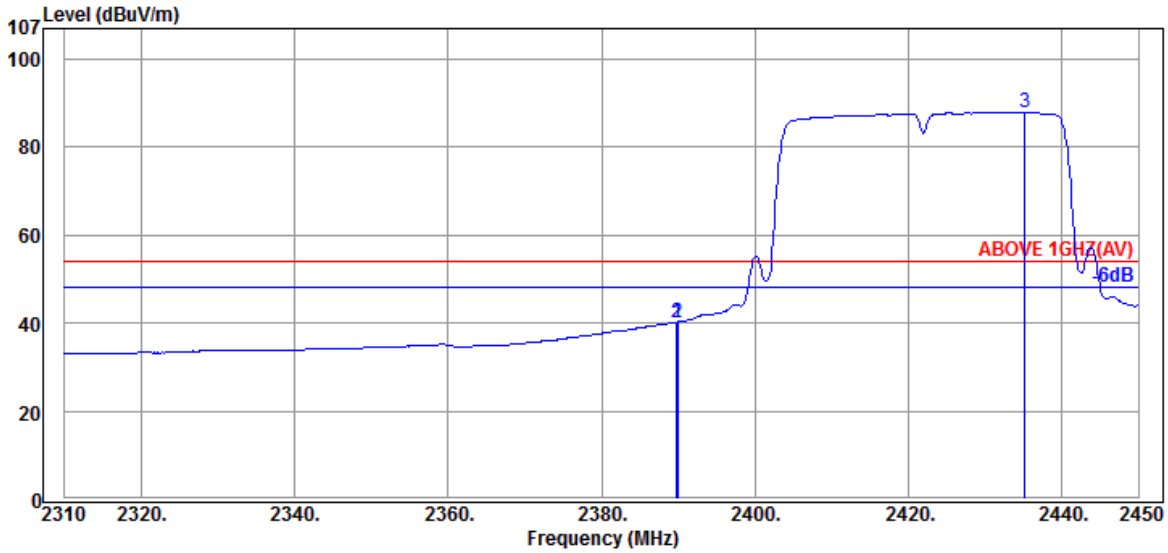
Mode	802.11n-HT40	Frequency	TX 2422MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.57	14.44	53.17	74.00	20.83	Peak
2389.94	32.16	6.57	14.46	53.19	74.00	20.81	Peak
2429.14	32.20	6.61	60.20	99.01	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.57	1.48	40.21	54.00	13.79	Average
2389.94	32.16	6.57	1.52	40.25	54.00	13.75	Average
2435.16	32.20	6.61	49.24	88.05	---	---	Average

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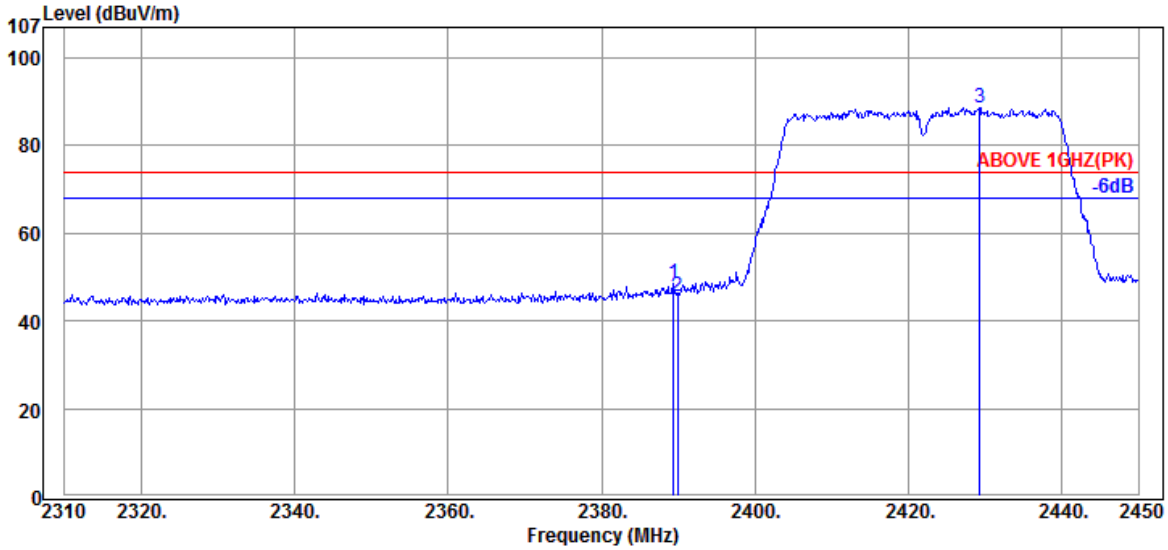
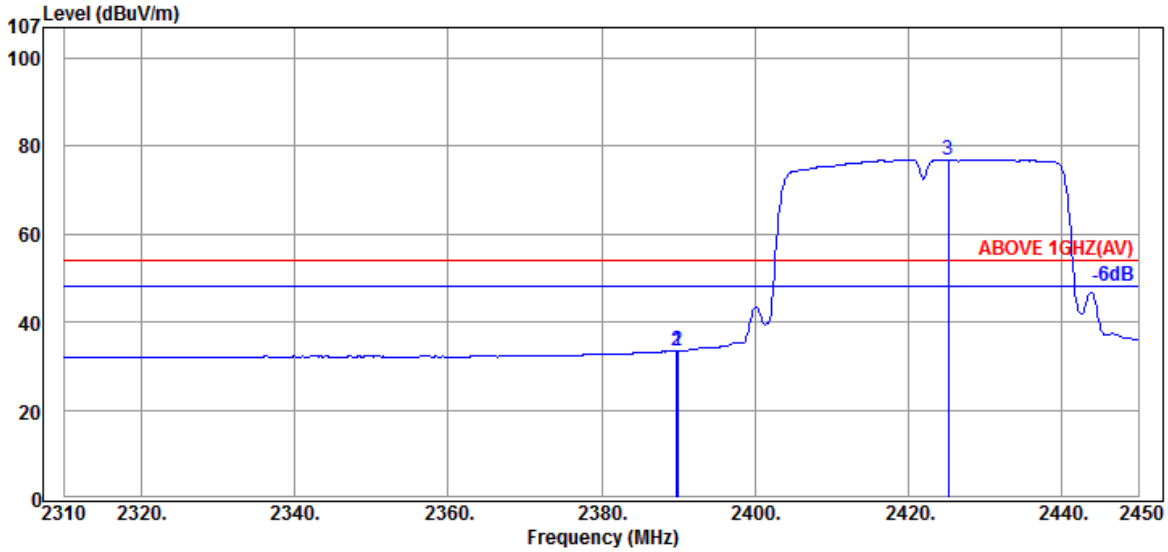
Mode	802.11n-HT40	Frequency	TX 2422MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.38	32.16	6.57	9.93	48.66	74.00	25.34	Peak
2389.94	32.16	6.57	6.78	45.51	74.00	28.49	Peak
2429.28	32.20	6.61	49.80	88.61	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2389.80	32.16	6.57	-5.30	33.43	54.00	20.57	Average
2389.94	32.16	6.57	-5.26	33.47	54.00	20.53	Average
2425.22	32.20	6.61	38.17	76.98	---	---	Average

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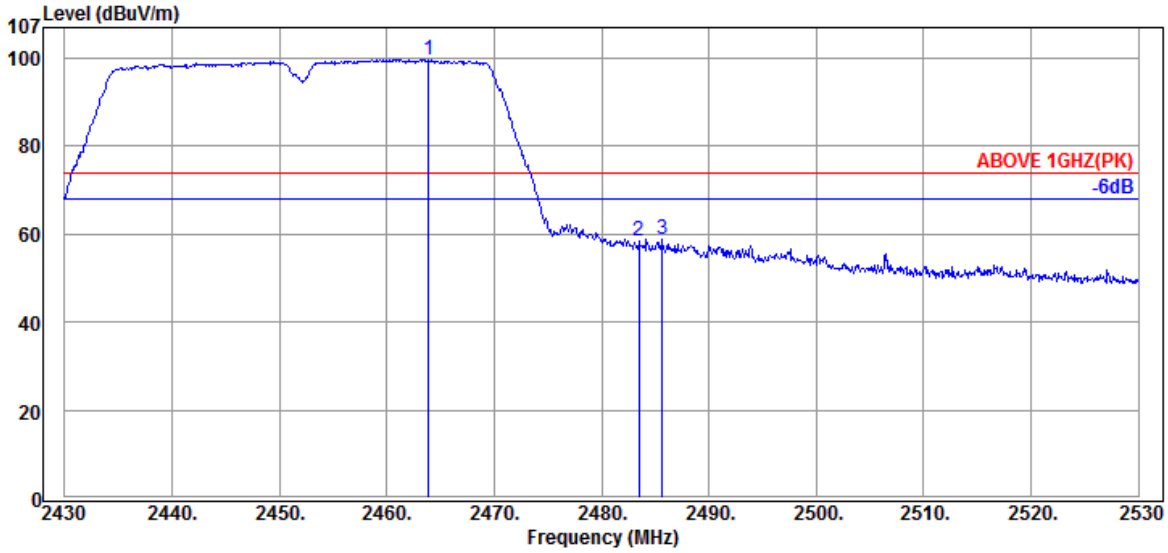
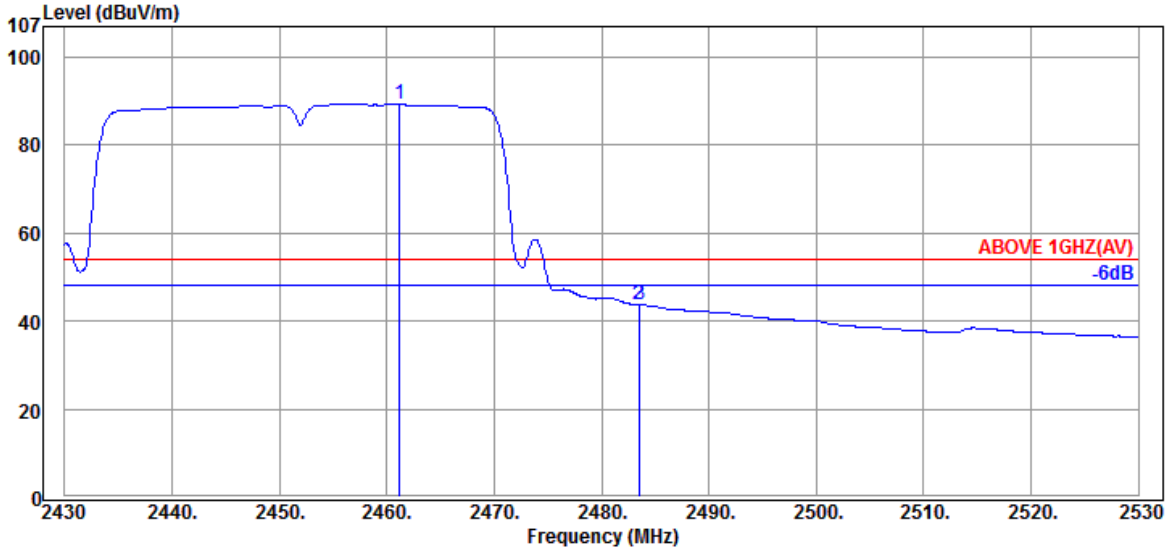
Mode	802.11n-HT40	Frequency	TX 2452MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2463.90	32.25	6.65	60.77	99.67	---	---	Peak
2483.50	32.28	6.67	19.61	58.56	74.00	15.44	Peak
2485.70	32.28	6.67	19.93	58.88	74.00	15.12	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2461.20	32.25	6.65	50.36	89.26	---	---	Average
2483.50	32.28	6.67	4.79	43.74	54.00	10.26	Average
2483.60	32.28	6.67	4.78	43.73	54.00	10.27	Average

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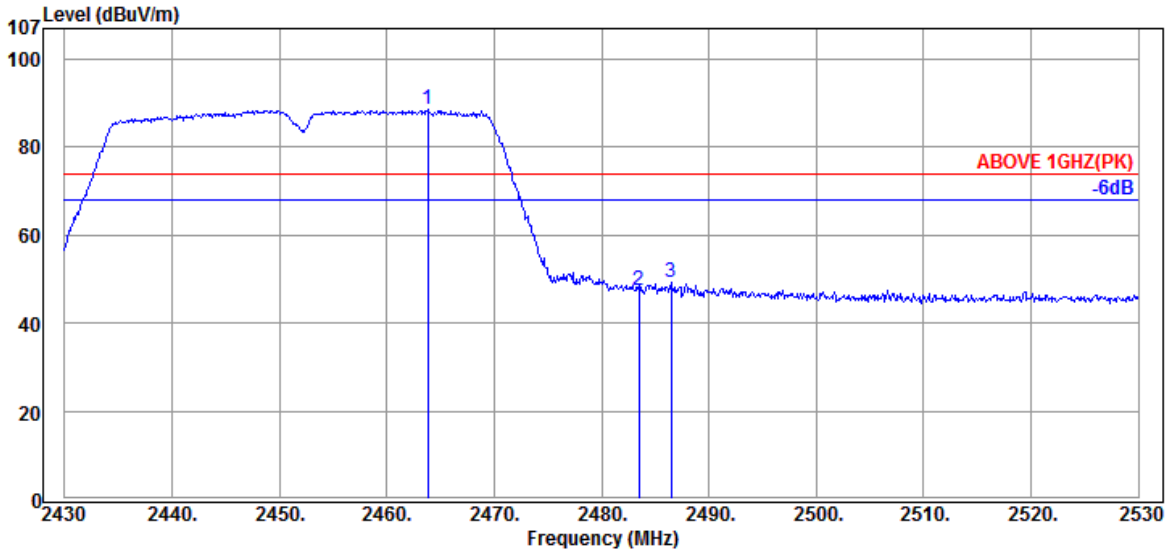
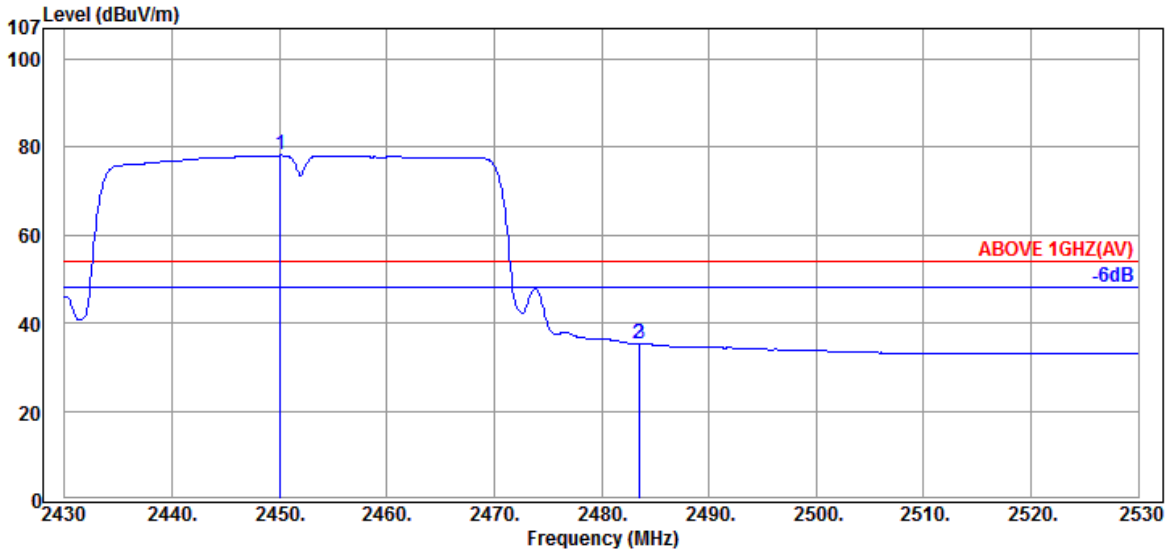
Mode	802.11n-HT40	Frequency	TX 2452MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.80	32.25	6.65	49.58	88.48	---	---	Peak
2483.50	32.28	6.67	8.67	47.62	74.00	26.38	Peak
2486.50	32.28	6.67	10.25	49.20	74.00	24.80	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2450.10	32.23	6.63	39.28	78.14	---	---	Average
2483.50	32.28	6.67	-3.64	35.31	54.00	18.69	Average
2483.60	32.28	6.67	-3.66	35.29	54.00	18.71	Average

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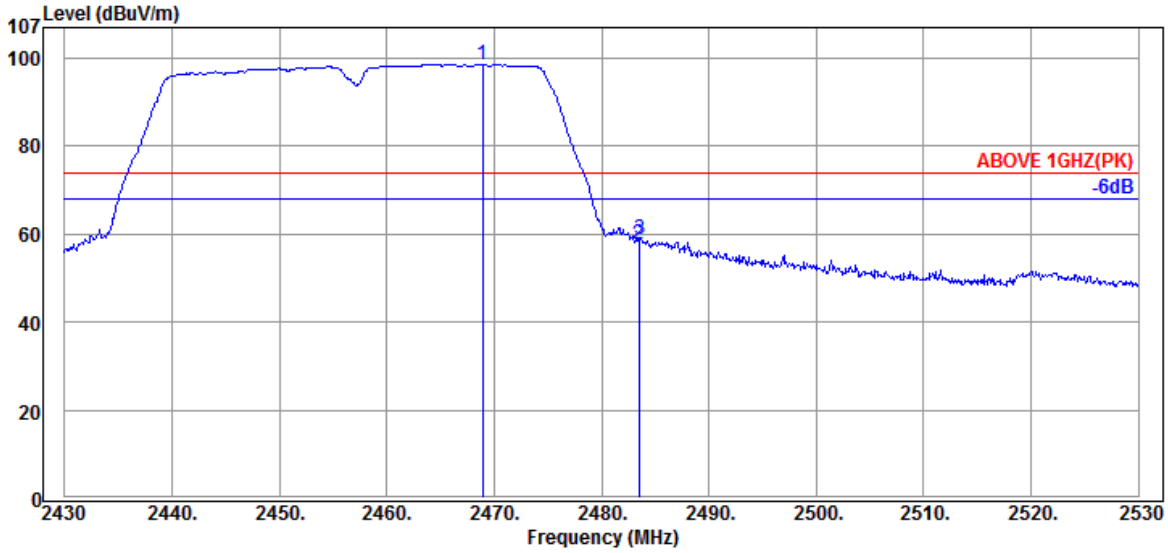
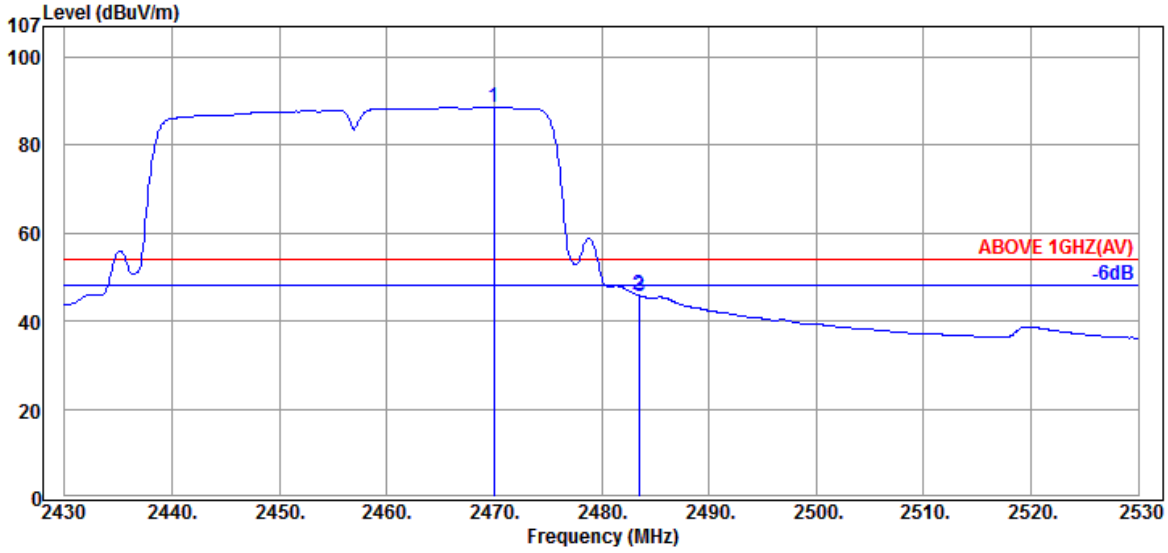
Mode	802.11n-HT40	Frequency	TX 2457MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2468.90	32.25	6.65	59.66	98.56	---	---	Peak
2483.50	32.28	6.67	18.87	57.82	74.00	16.18	Peak
2483.60	32.28	6.67	19.91	58.86	74.00	15.14	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2470.00	32.25	6.65	49.76	88.66	---	---	Average
2483.50	32.28	6.67	6.92	45.87	54.00	8.13	Average
2483.60	32.28	6.67	6.80	45.75	54.00	8.25	Average

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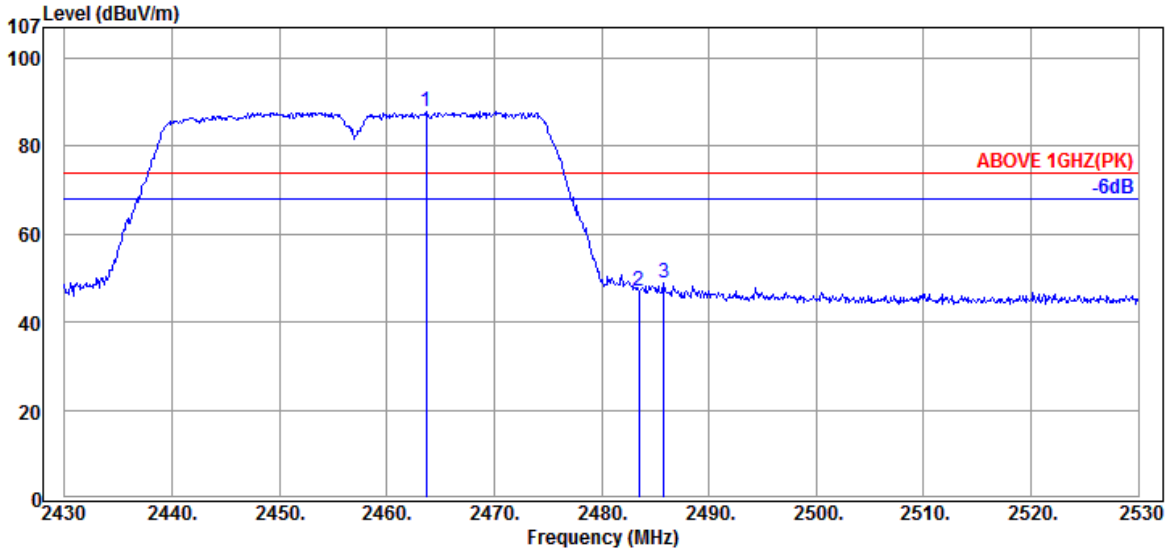
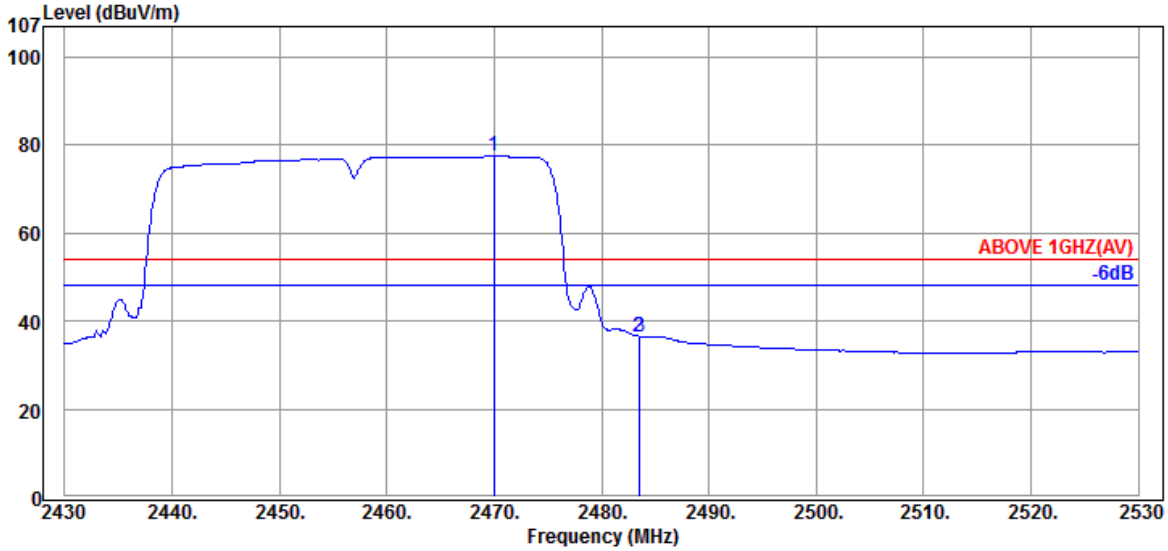
Mode	802.11n-HT40	Frequency	TX 2457MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2463.70	32.25	6.65	48.89	87.79	---	---	Peak
2483.50	32.28	6.67	8.10	47.05	74.00	26.95	Peak
2485.80	32.28	6.67	10.10	49.05	74.00	24.95	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2470.00	32.25	6.65	38.61	77.51	---	---	Average
2483.50	32.28	6.67	-2.37	36.58	54.00	17.42	Average
2483.60	32.28	6.67	-2.42	36.53	54.00	17.47	Average

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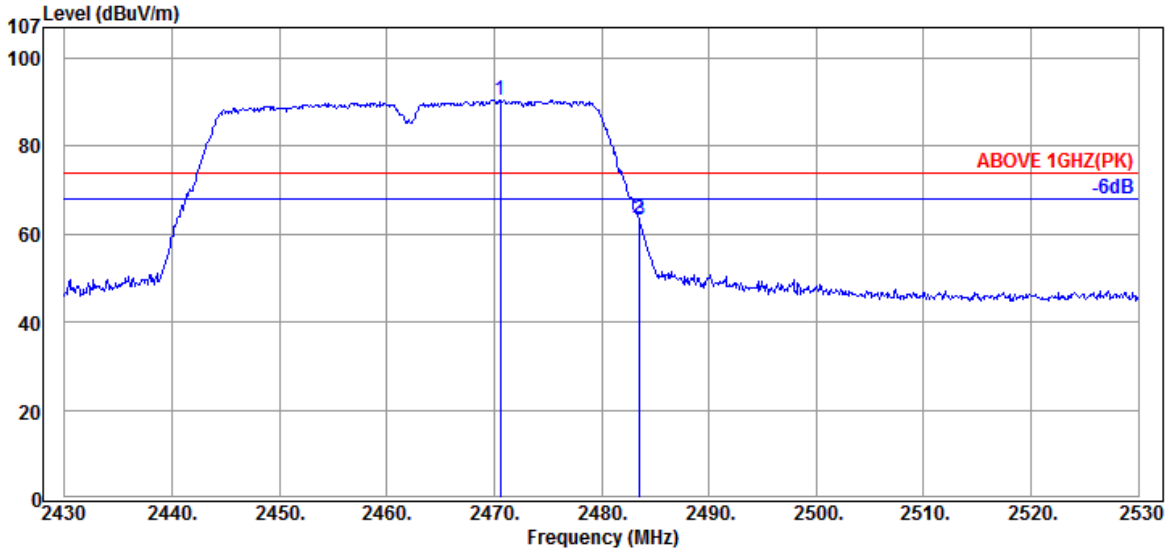
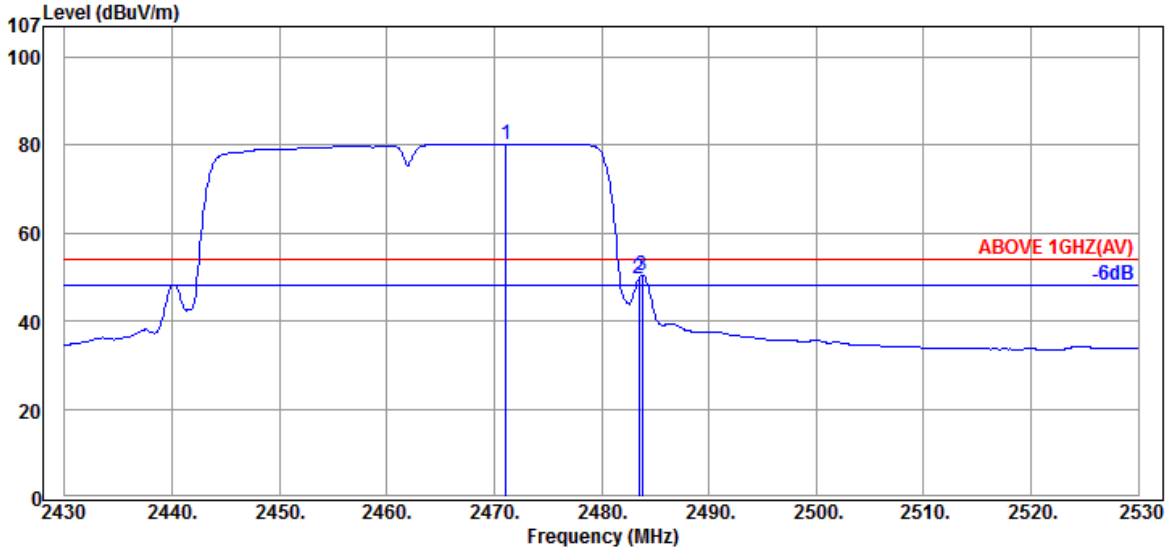
Mode	802.11n-HT40	Frequency	TX 2462MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2470.60	32.28	6.67	51.42	90.37	---	---	Peak
2483.50	32.28	6.67	24.83	63.78	74.00	10.22	Peak
2483.60	32.28	6.67	24.26	63.21	74.00	10.79	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2471.10	32.28	6.67	41.39	80.34	---	---	Average
2483.50	32.28	6.67	10.84	49.79	54.00	4.21	Average
2483.80	32.28	6.67	11.46	50.41	54.00	3.59	Average

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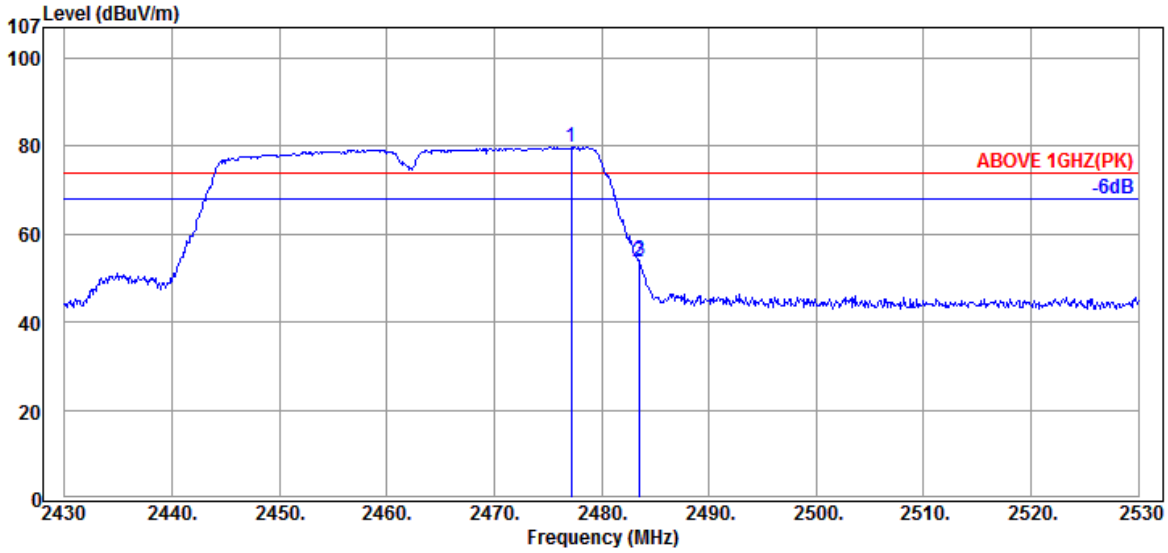
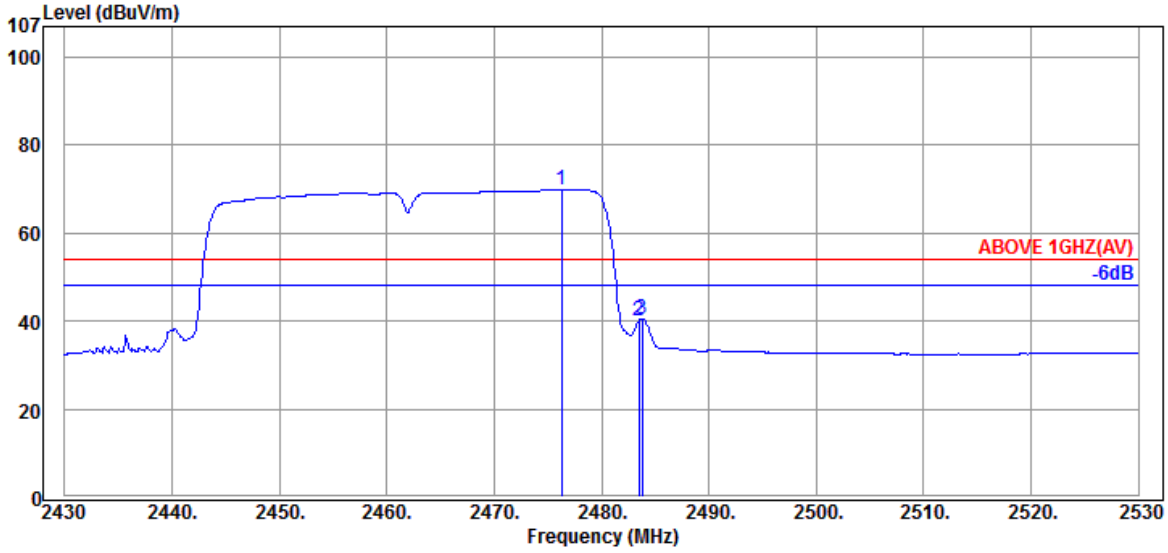
Mode	802.11n-HT40	Frequency	TX 2462MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2477.20	32.28	6.67	40.83	79.78	---	---	Peak
2483.50	32.28	6.67	14.60	53.55	74.00	20.45	Peak
2483.60	32.28	6.67	15.20	54.15	74.00	19.85	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector
2476.30	32.28	6.67	30.87	69.82	---	---	Average
2483.50	32.28	6.67	1.10	40.05	54.00	13.95	Average
2483.80	32.28	6.67	1.58	40.53	54.00	13.47	Average

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A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	802.11b	Frequency	TX 2412MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4825.00	34.23	9.54	5.24	49.01	54.00	4.99	Peak
7235.00	35.80	11.84	0.44	48.08	54.00	5.92	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4825.00	34.23	9.54	4.58	48.35	54.00	5.65	Peak
7235.00	35.80	11.84	-0.50	47.14	54.00	6.86	Peak

Mode	802.11g	Frequency	TX 2437MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2760.00	32.62	7.10	6.98	46.70	54.00	7.30	Peak
4875.00	34.25	9.56	-0.57	43.24	54.00	10.76	Peak
7310.00	35.80	11.90	-1.04	46.66	54.00	7.34	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2760.00	32.62	7.10	7.92	47.64	54.00	6.36	Peak
4875.00	34.25	9.56	1.42	45.23	54.00	8.77	Peak
7310.00	35.80	11.90	-1.86	45.84	54.00	8.16	Peak

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Mode	802.11n-HT20	Frequency	TX 2437MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2688.00	32.52	6.97	4.96	44.45	54.00	9.55	Peak
4875.00	34.25	9.56	-0.45	43.36	54.00	10.64	Peak
7310.00	35.80	11.90	-1.74	45.96	54.00	8.04	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2760.00	32.62	7.10	6.73	46.45	54.00	7.55	Peak
3590.00	32.89	8.28	5.24	46.41	54.00	7.59	Peak
4875.00	34.25	9.56	-1.77	42.04	54.00	11.96	Peak
7310.00	35.80	11.90	-3.35	44.35	54.00	9.65	Peak

Mode	802.11n-HT40	Frequency	TX 2422MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4845.00	34.24	9.55	-0.58	43.21	54.00	10.79	Peak
7265.00	35.80	11.87	-2.33	45.34	54.00	8.66	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
3590.00	32.89	8.28	5.24	46.41	54.00	7.59	Peak
4845.00	34.24	9.55	-1.29	42.50	54.00	11.50	Peak
7265.00	35.80	11.87	-2.53	45.14	54.00	8.86	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

Pursuant to KDB 558074 D01 DTS Meas Guidance v04 that emission levels below the FCC 15.209(a) general radiated emissions limits is not required.

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A.3 6dB BANDWIDTH

Test Date	2018/07/24 ~ 25	Temp./Hum.	25℃/53%
Cable Loss	---	Test Voltage	AC 120V, 60Hz

A.3.1 6dB Bandwidth Result

Mode	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	Limit
802.11b	2412	9.089	13.337	>500kHz
	2437	9.090	13.309	
	2462	9.092	13.285	
	2472	9.095	13.346	
802.11g	2412	16.60	16.472	
	2437	16.60	16.496	
	2462	16.60	16.478	
	2472	16.60	16.468	
802.11n-HT20	2412	17.77	17.665	
	2437	17.77	17.669	
	2462	17.77	17.665	
	2472	17.77	17.655	
802.11n-HT40	2422	36.55	36.129	
	2437	36.55	36.121	
	2452	36.55	36.115	
	2462	36.56	36.149	

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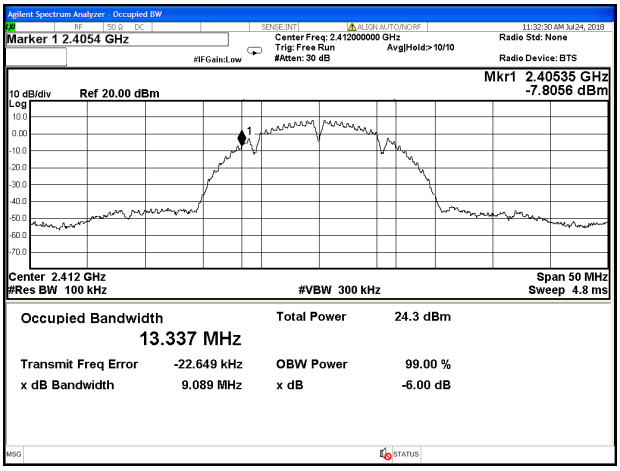
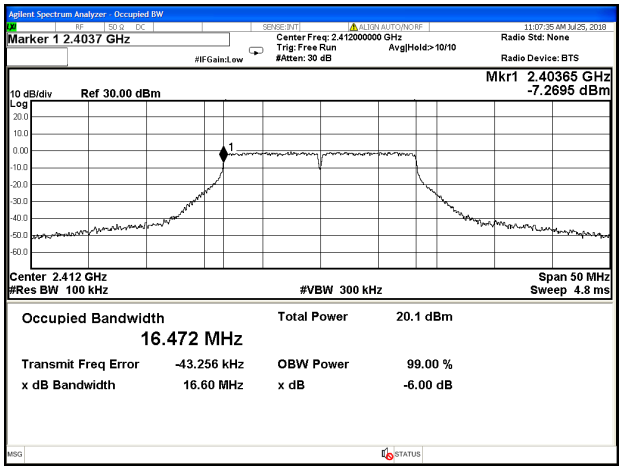
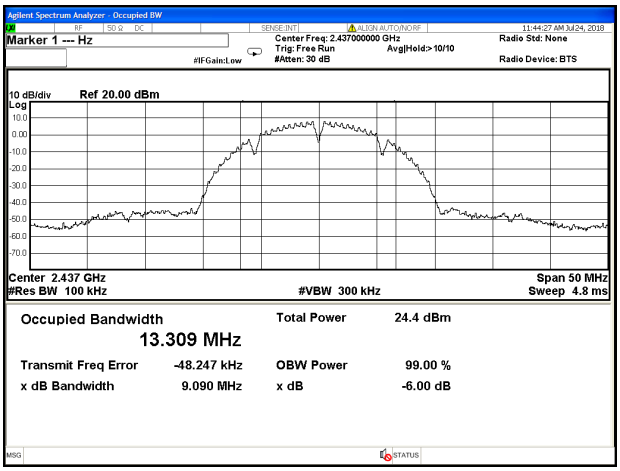
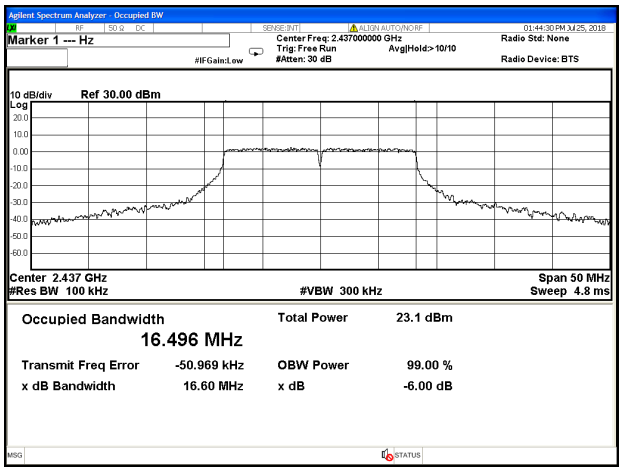
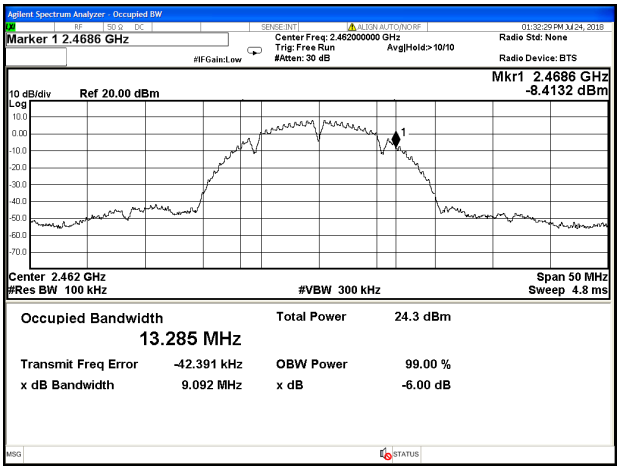
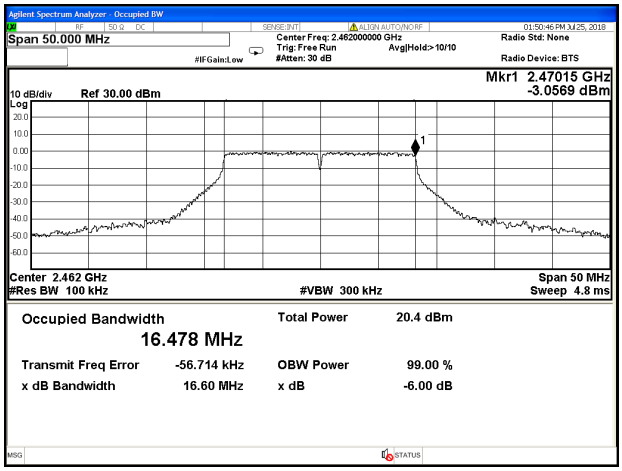
A.3.2 Measurement Plots

802.11b	802.11g
	
	
	

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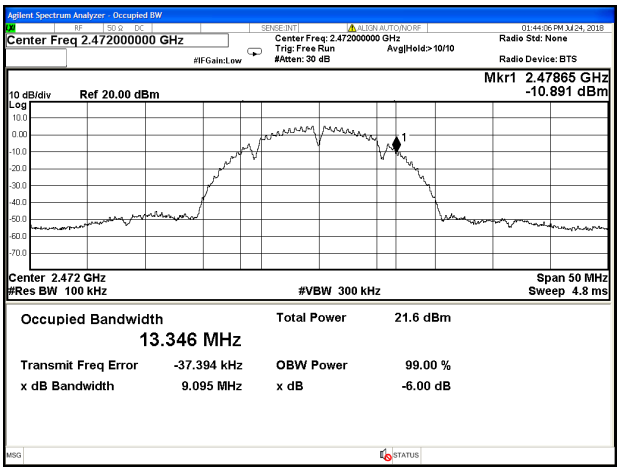
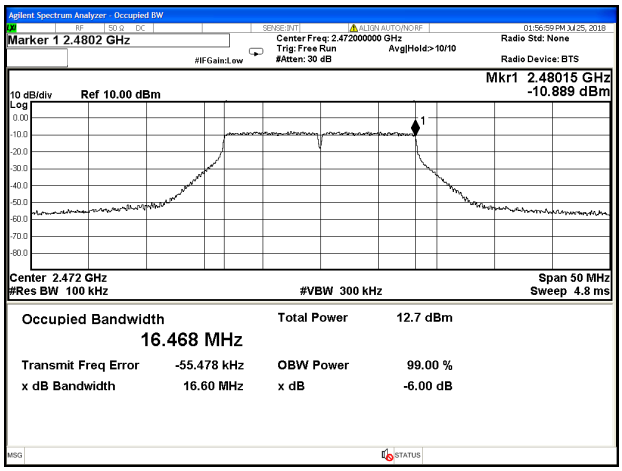
802.11b	802.11g
	

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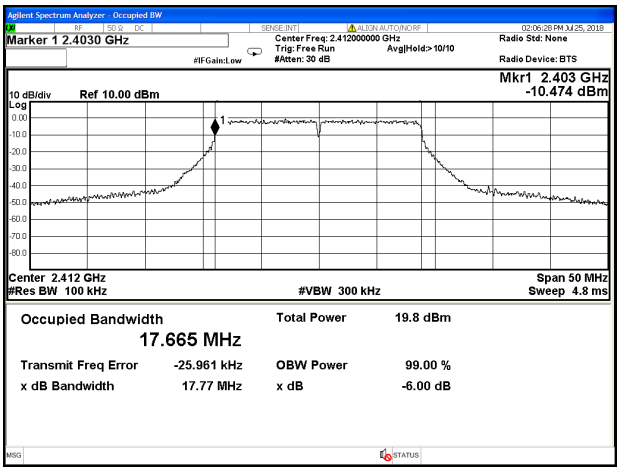
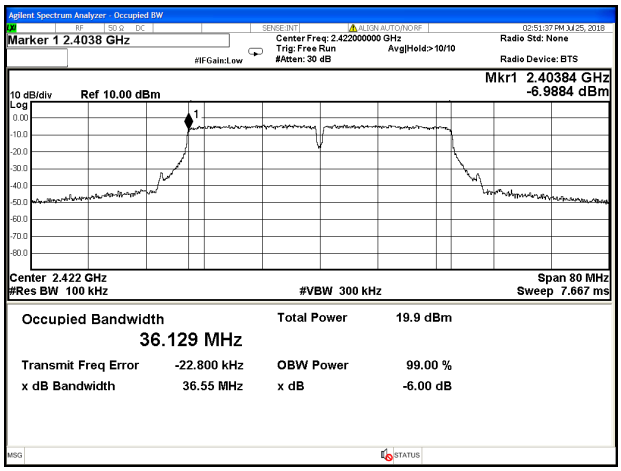
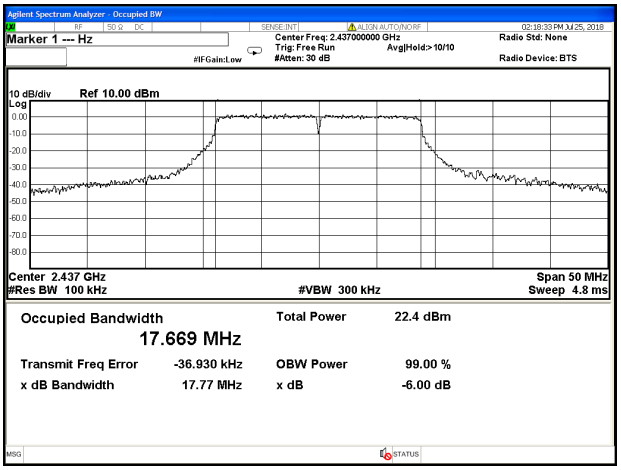
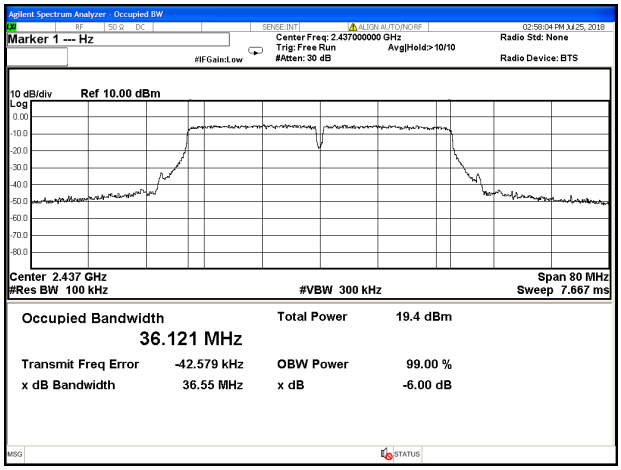
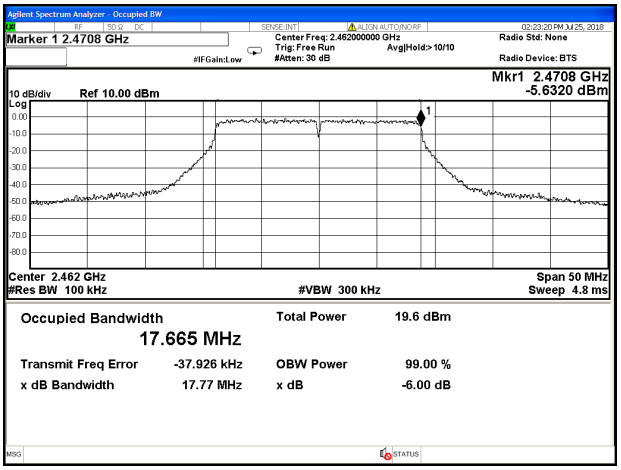
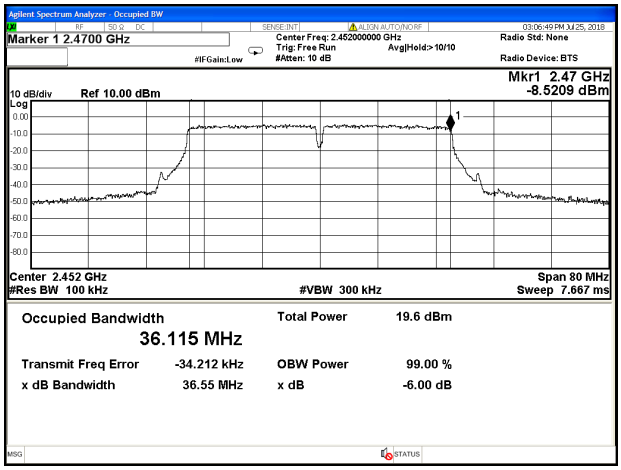
802.11n-HT20	802.11n-HT40
	
	
	

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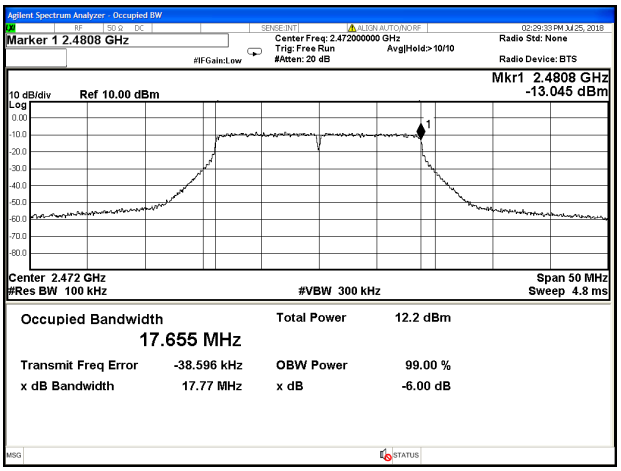
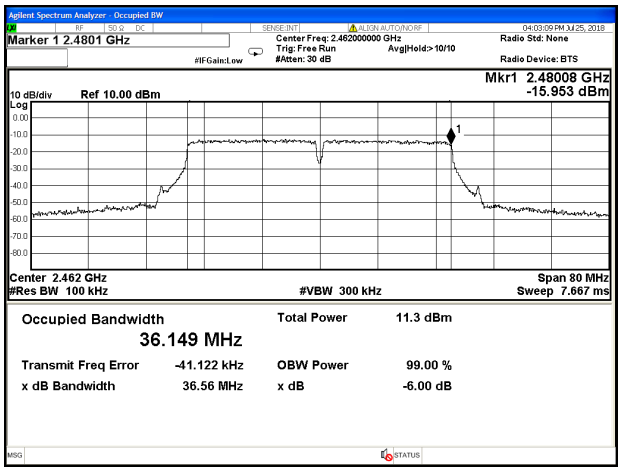
802.11n-HT20	802.11n-HT40
	

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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2018/07/25	Temp./Hum.	25℃/53%
Cable Loss	---	Test Voltage	AC 120V, 60Hz

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
802.11b	2412	19.58	0.090782	< 30dBm (1W)
	2437	19.52	0.089536	
	2462	19.56	0.090365	
	2467	17.36	0.054450	
	2472	16.78	0.047643	
802.11g	2412	23.82	0.240991	
	2437	24.77	0.299916	
	2462	23.56	0.226986	
	2467	22.38	0.172982	
	2472	16.11	0.040832	
802.11n-HT20	2412	22.54	0.179473	
	2417	24.36	0.272898	
	2437	24.46	0.279254	
	2457	24.25	0.266073	
	2462	22.47	0.176604	
	2467	21.71	0.148252	
	2472	15.25	0.033497	
802.11n-HT40	2422	22.64	0.183654	
	2437	22.63	0.183231	
	2452	22.55	0.179887	
	2457	21.68	0.147231	
	2462	12.67	0.018493	

Note: The results have been included cable loss.

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A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Total Average Output Power		Limit
				(dBm)	(W)	
802.11b	2412	17.31	0	17.31	0.053827	< 30dBm (1W)
	2437	17.21		17.21	0.052602	
	2462	17.28		17.28	0.053456	
	2467	15.14		15.14	0.032659	
	2472	14.59		14.59	0.028774	
802.11g	2412	13.99	0	13.99	0.025061	
	2437	15.97		15.97	0.039537	
	2462	14.04		14.04	0.025351	
	2467	12.42		12.42	0.017458	
	2472	6.35		6.35	0.004315	
802.11n-HT20	2412	13.17	0	13.17	0.020749	
	2417	15.56		15.56	0.035975	
	2437	16.01		16.01	0.039902	
	2457	15.47		15.47	0.035237	
	2462	13.11		13.11	0.020464	
	2467	12.14		12.14	0.016368	
	2472	6.25		6.25	0.004217	
802.11n-HT40	2422	12.83	0	12.83	0.019187	
	2437	12.71		12.71	0.018664	
	2452	12.76		12.76	0.018880	
	2457	12.17		12.17	0.016482	
	2462	3.85		3.85	0.002427	

Note: The results have been included cable loss.

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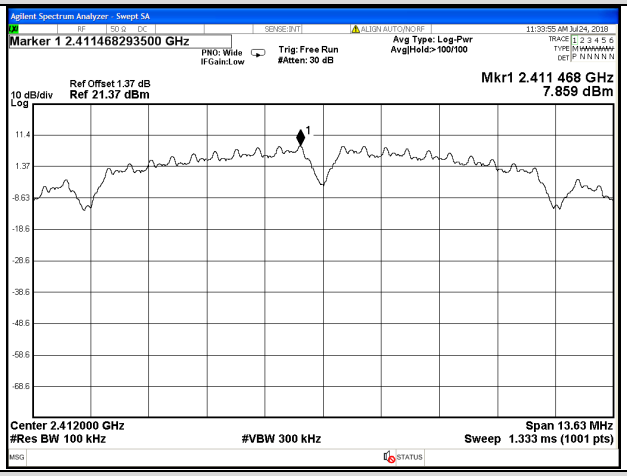
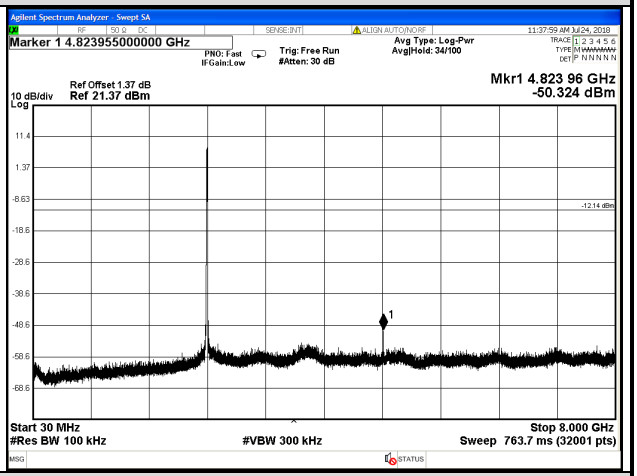
A.5 EMISSION LIMITATIONS

Test Date	2018/07/24	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

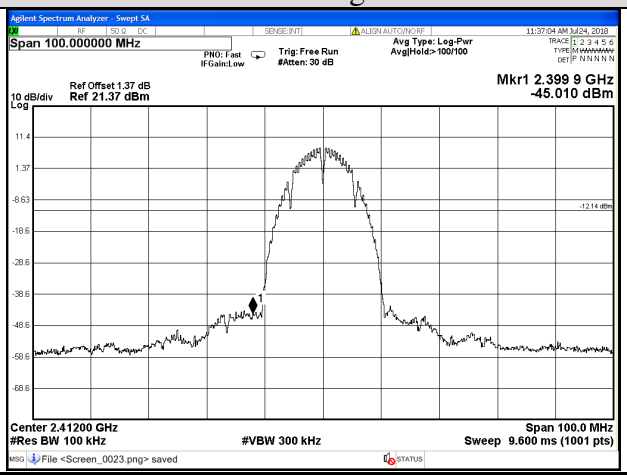
Reference Level



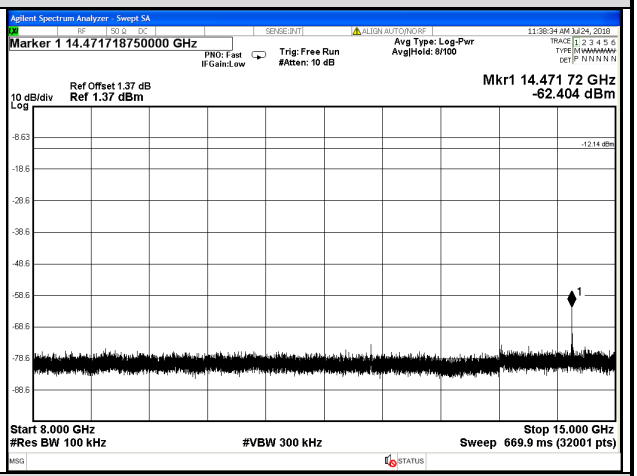
30MHz – 8GHz



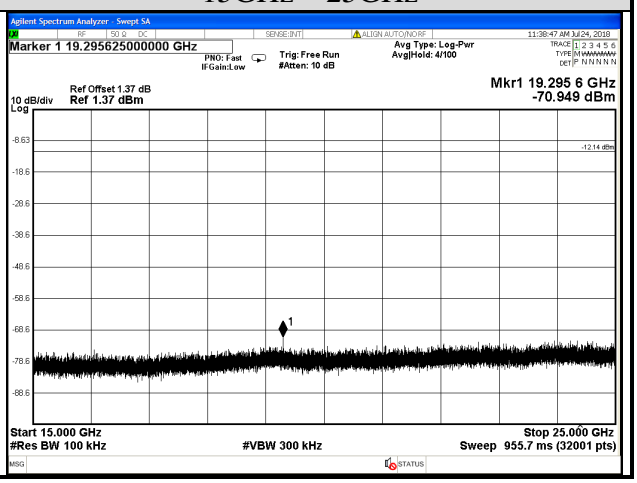
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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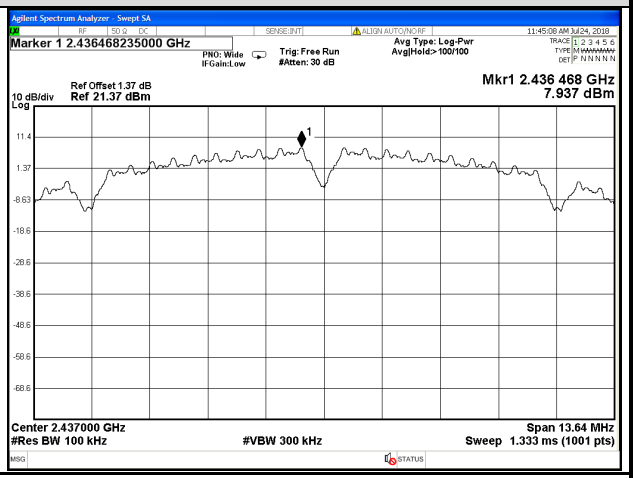
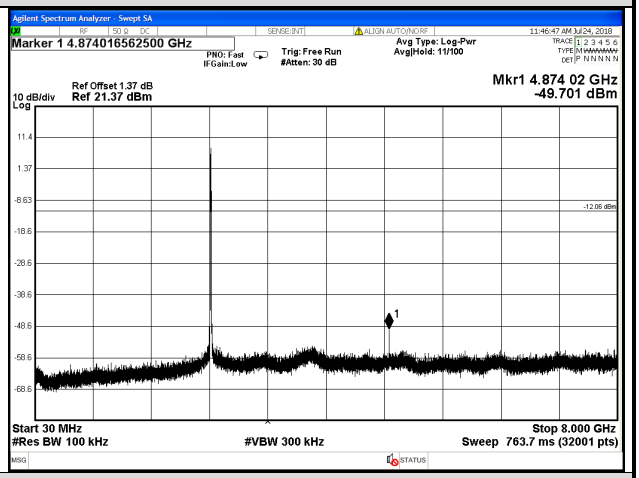
Test Date	2018/07/24	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

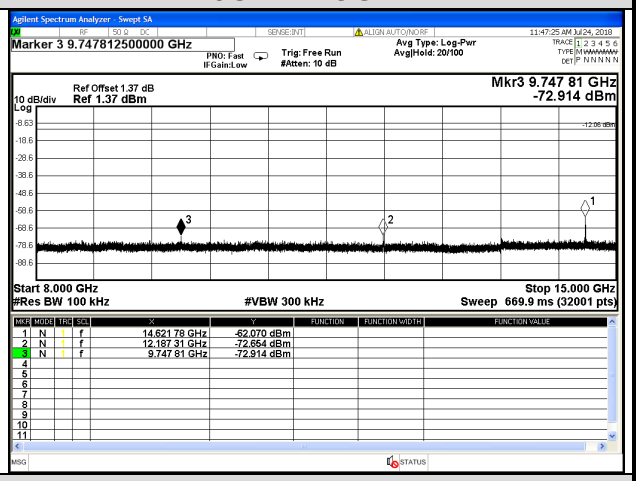
Reference Level



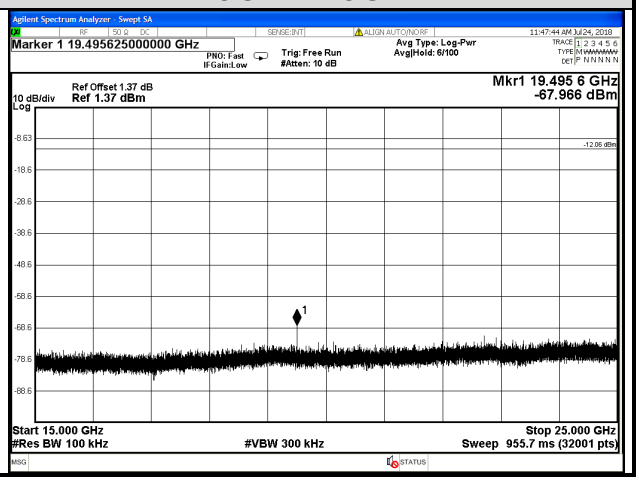
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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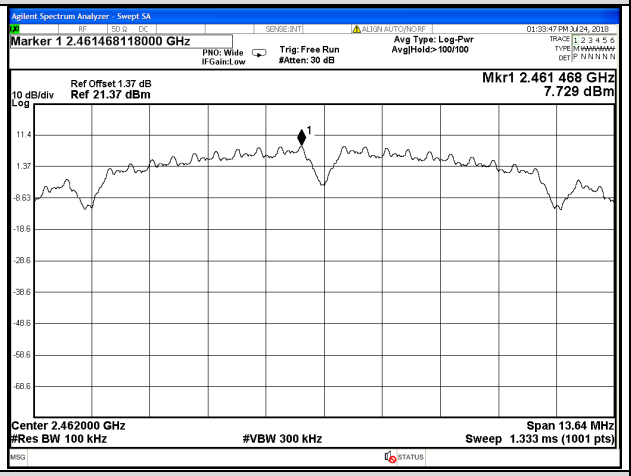
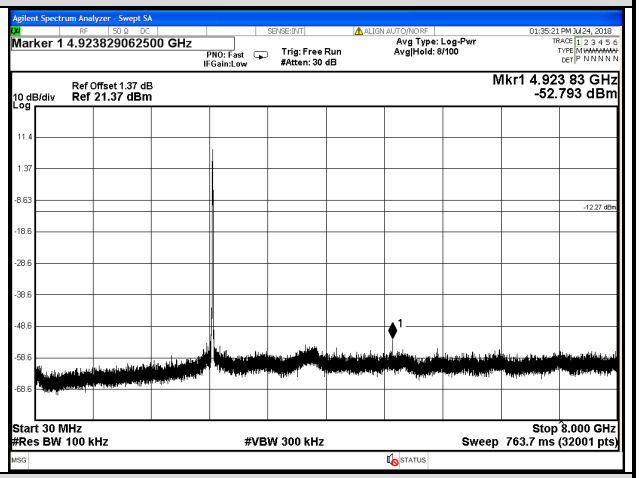
Test Date	2018/07/24	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

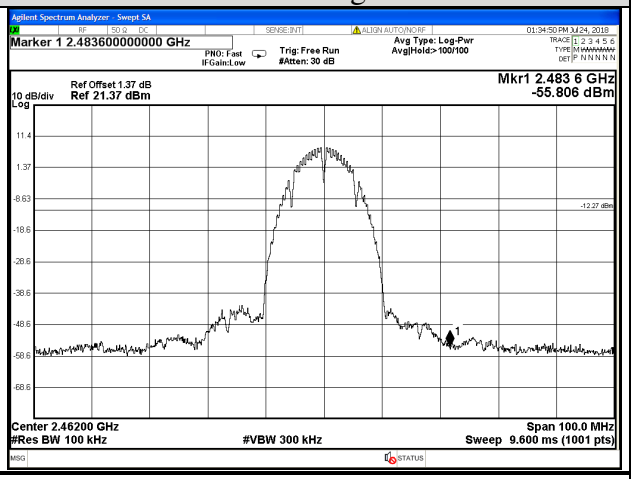
Reference Level



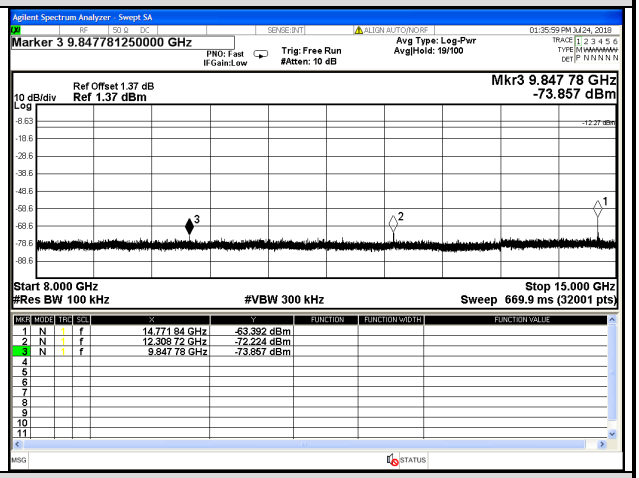
30MHz – 8GHz



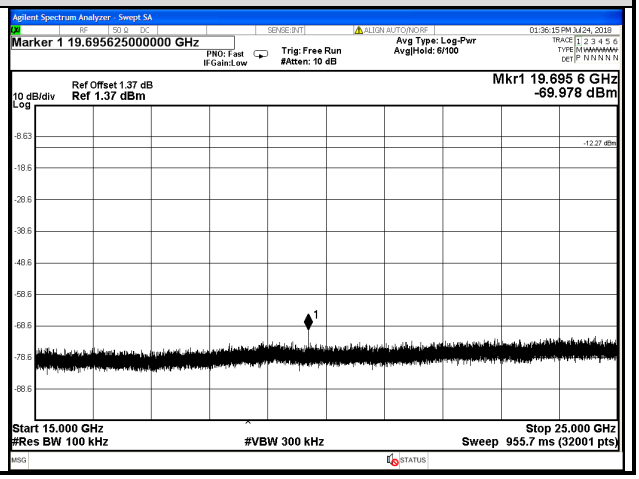
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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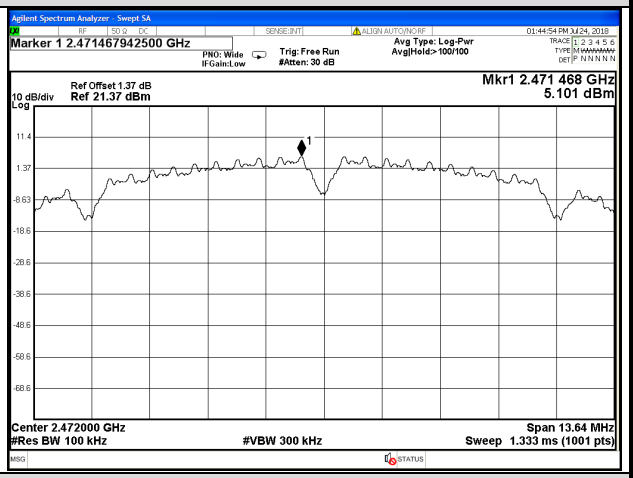
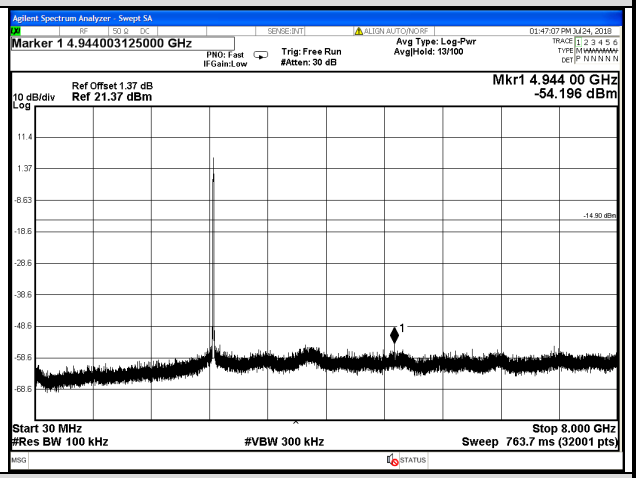
Test Date	2018/07/24	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2472MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

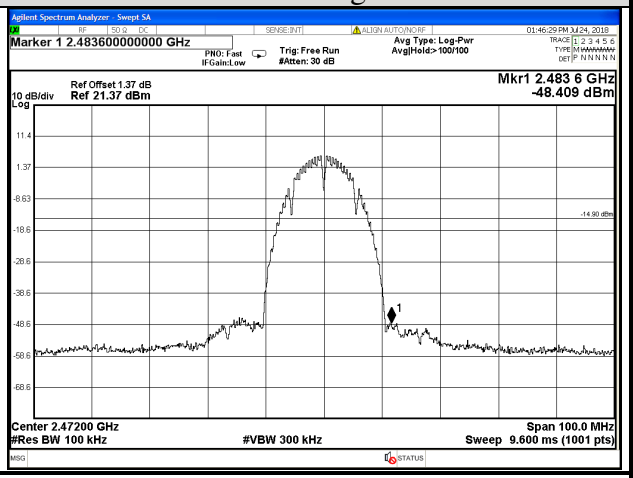
Reference Level



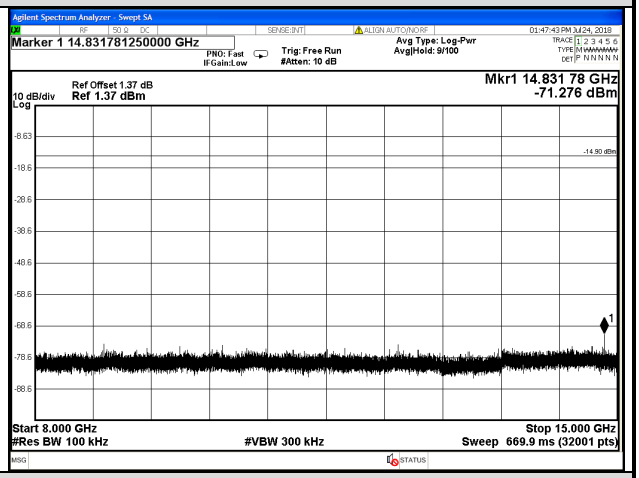
30MHz – 8GHz



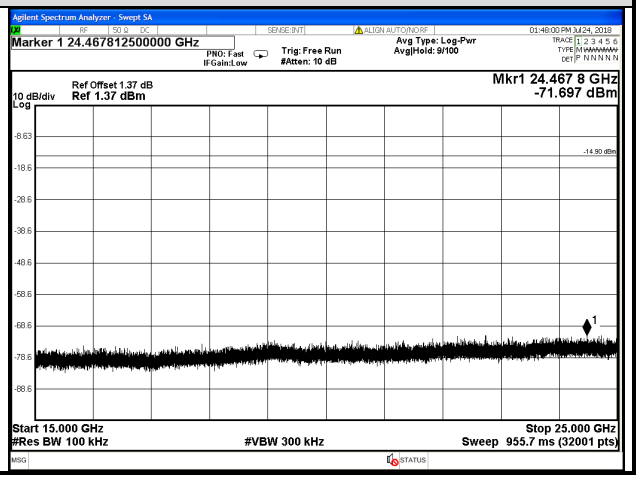
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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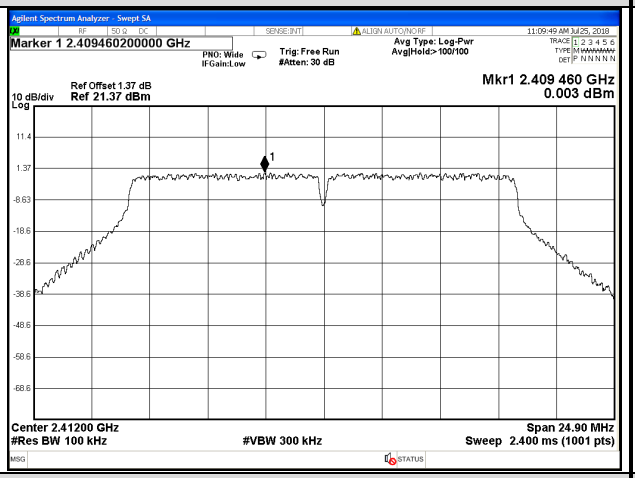
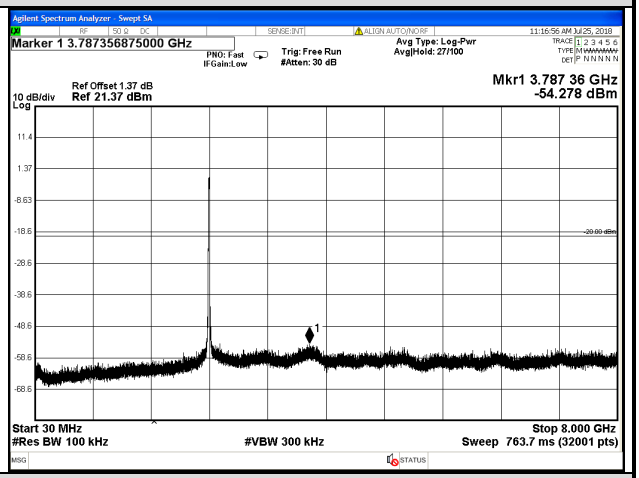
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

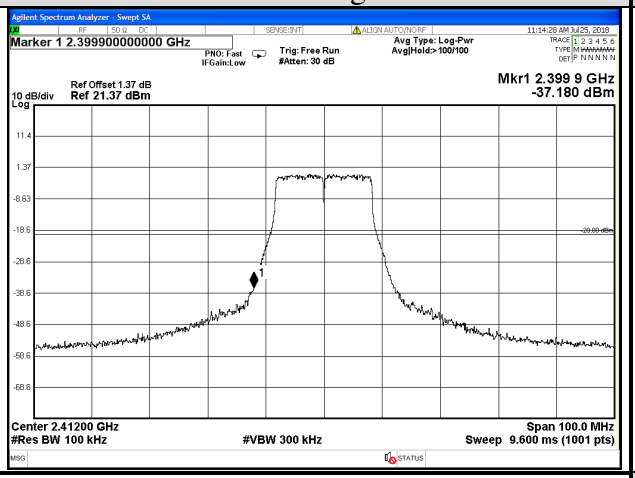
Reference Level



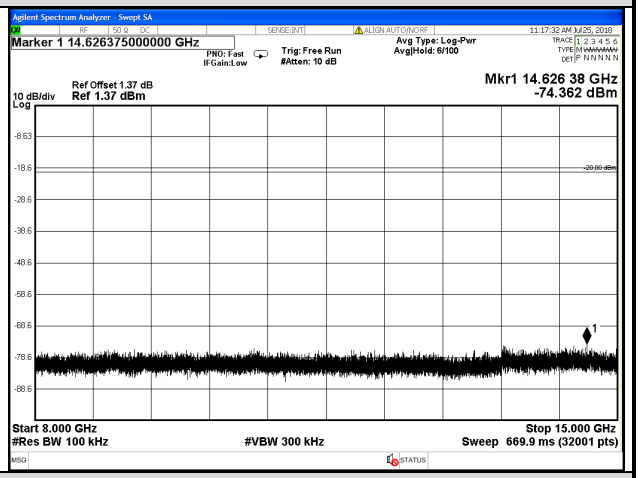
30MHz – 8GHz



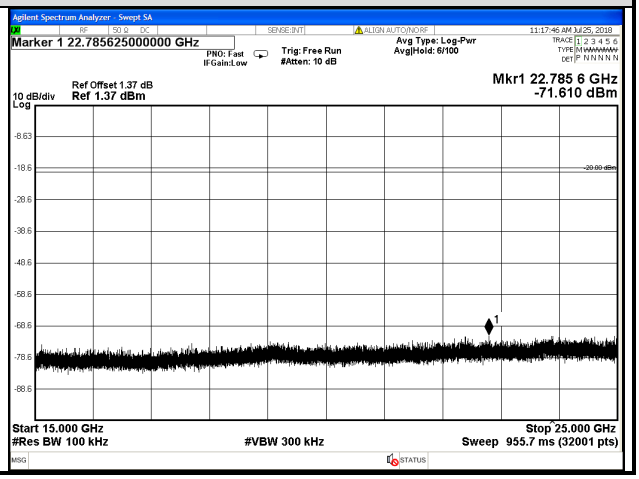
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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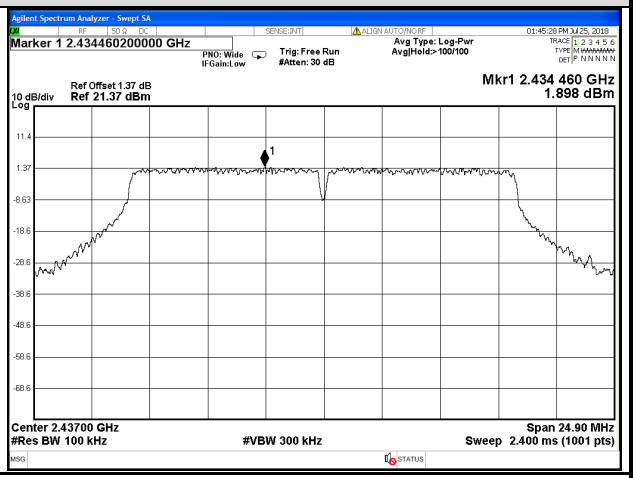
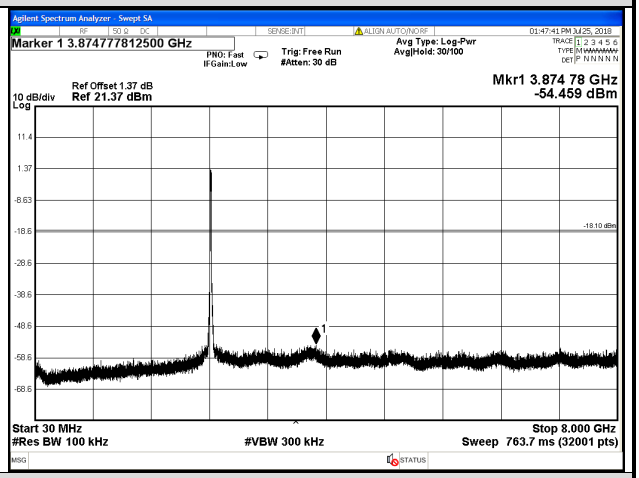
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

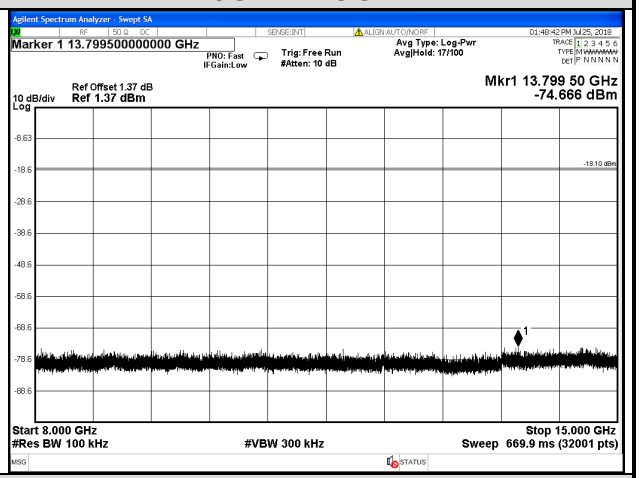
Reference Level



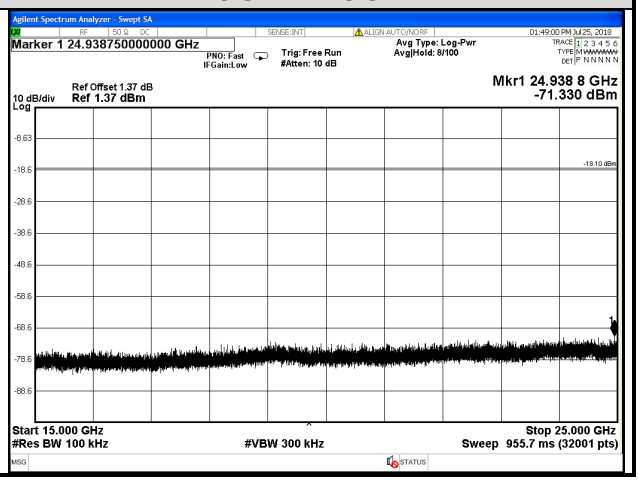
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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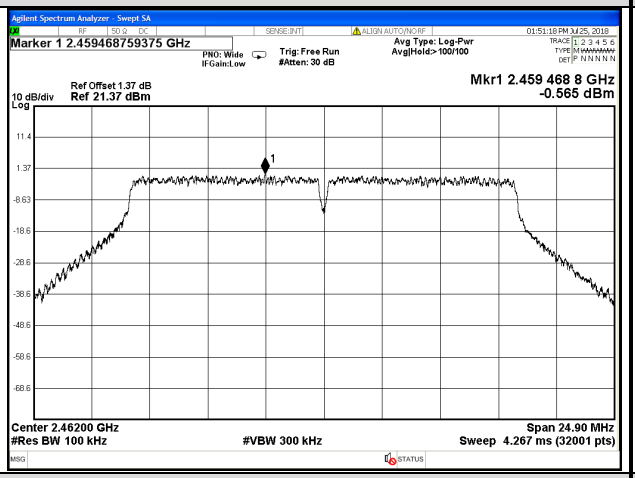
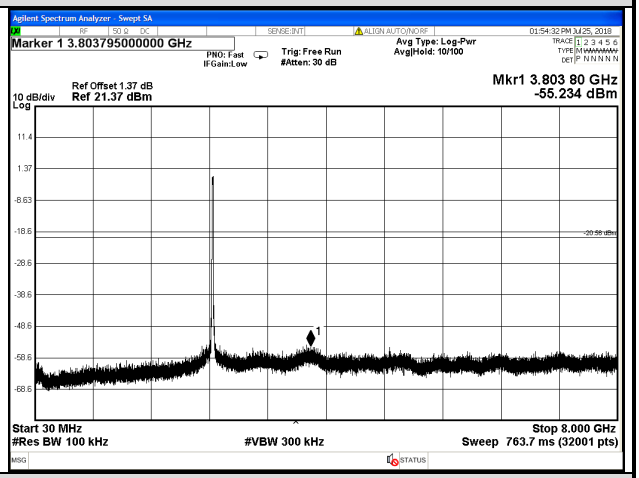
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

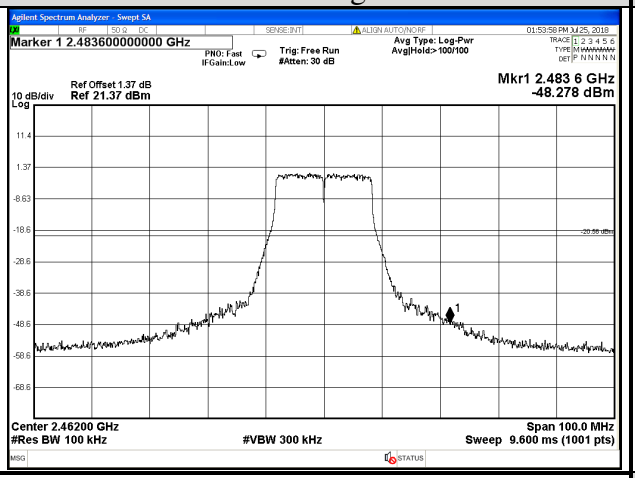
Reference Level



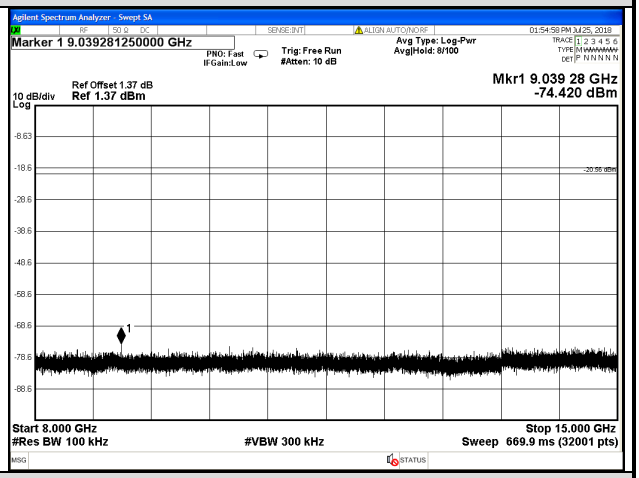
30MHz – 8GHz



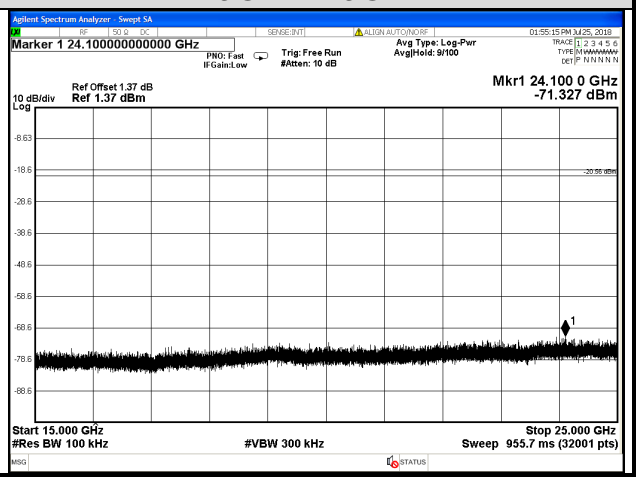
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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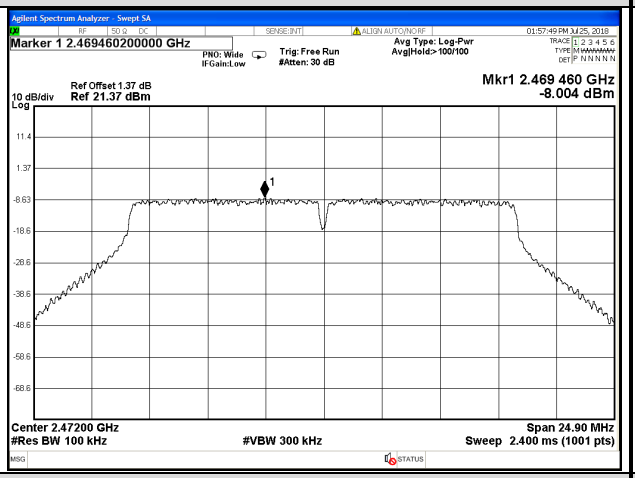
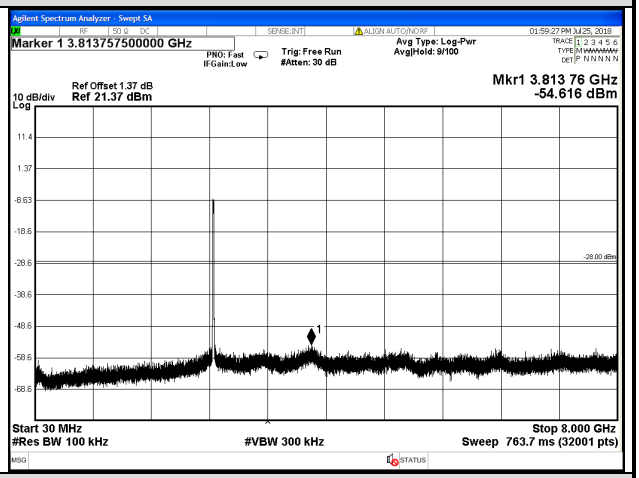
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2472MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

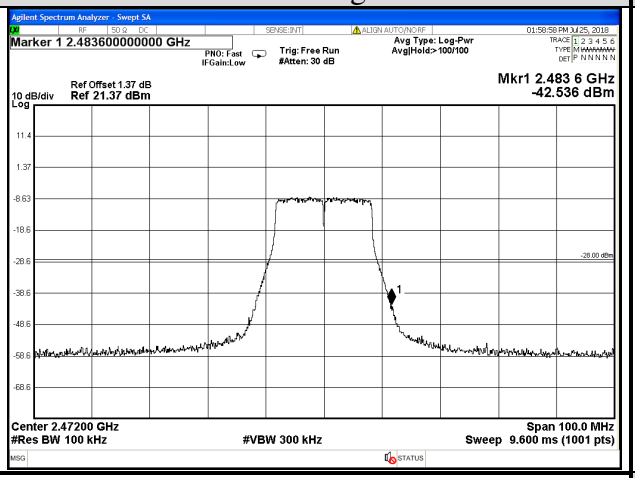
Reference Level



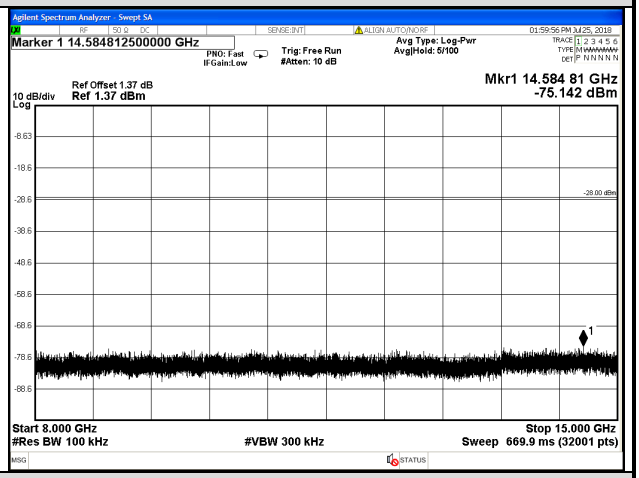
30MHz – 8GHz



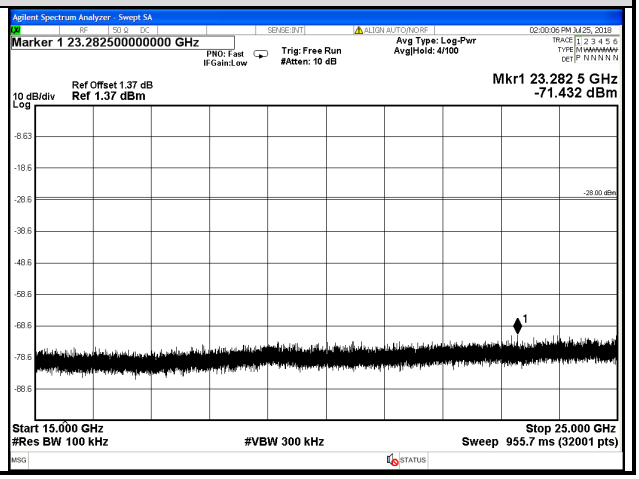
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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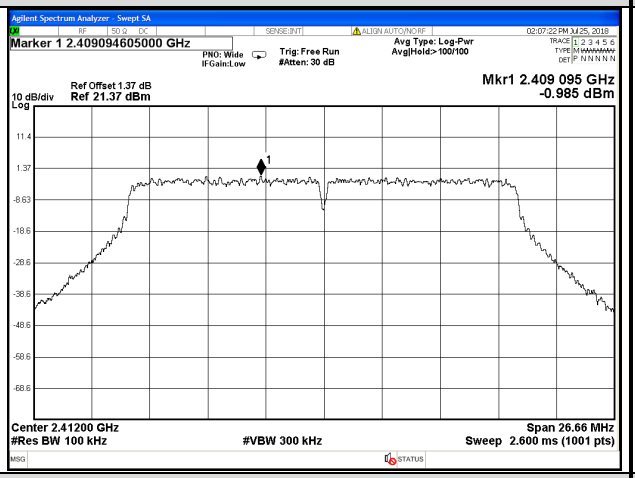
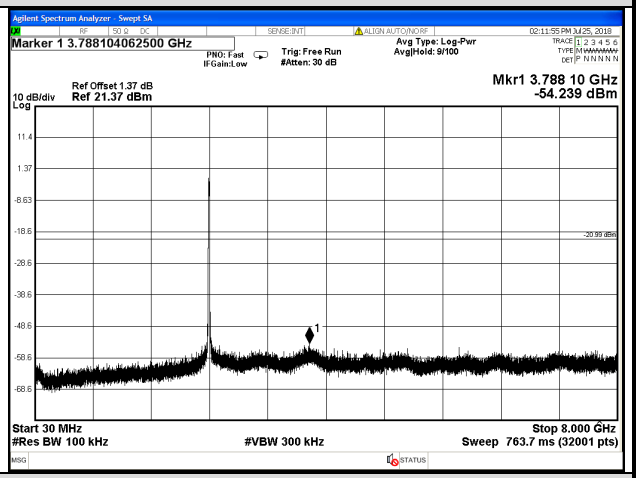
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

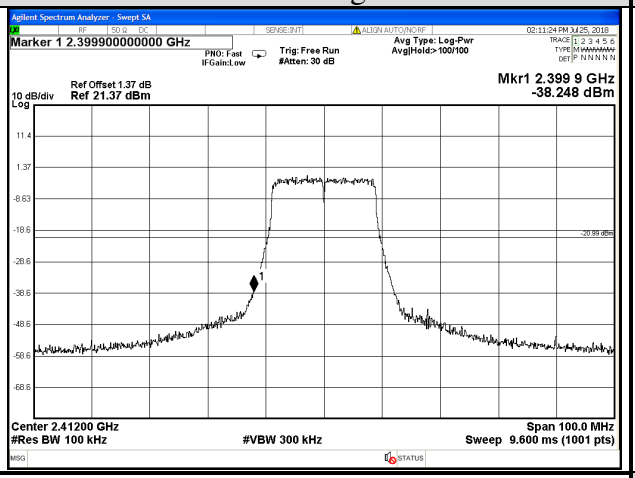
Reference Level



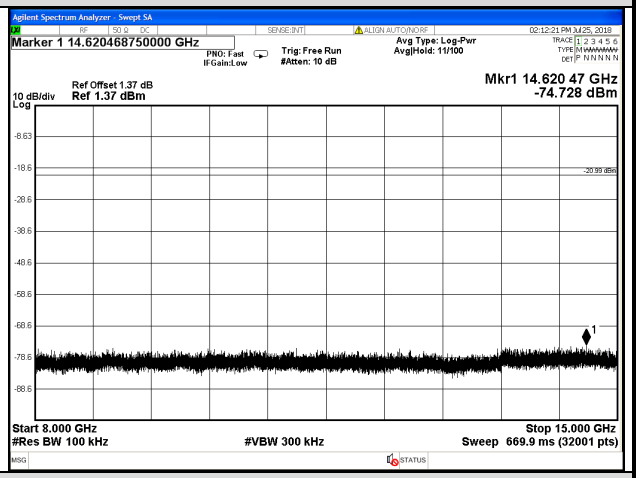
30MHz – 8GHz



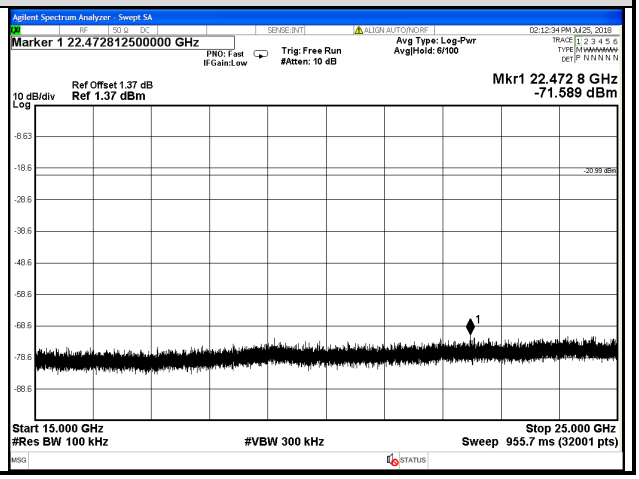
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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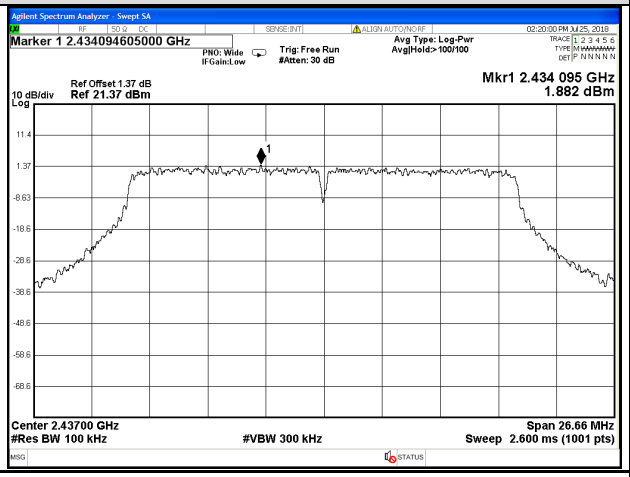
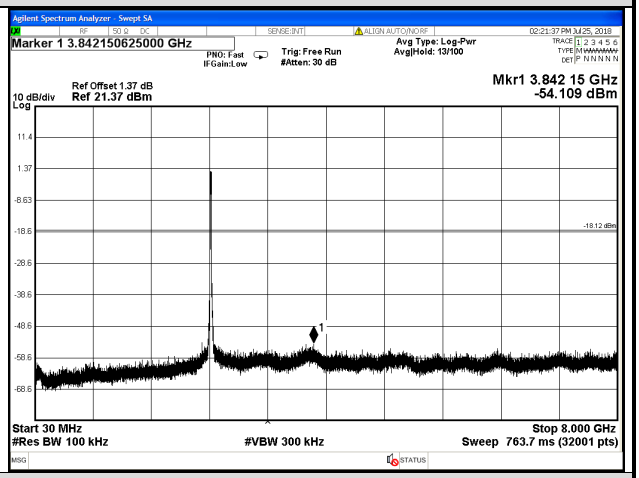
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

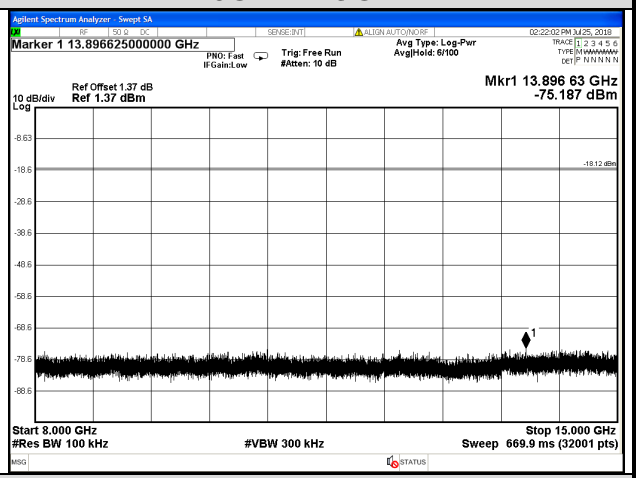
Reference Level



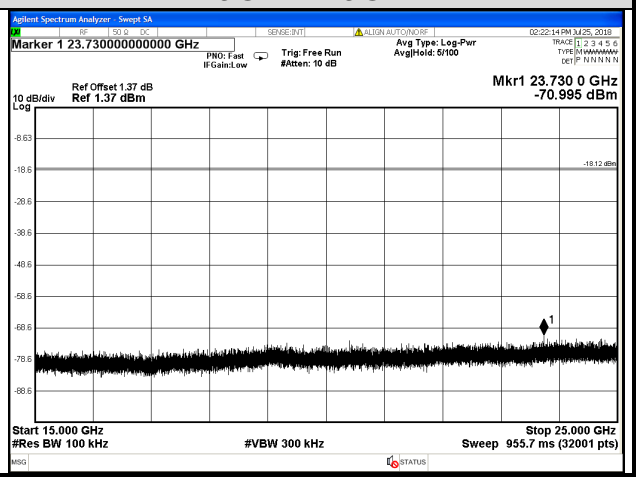
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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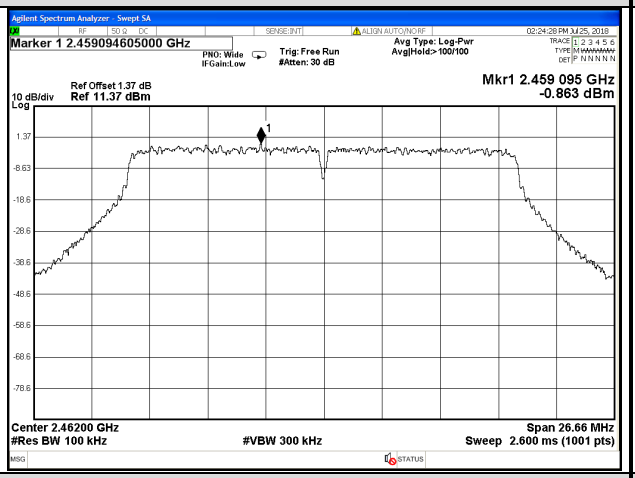
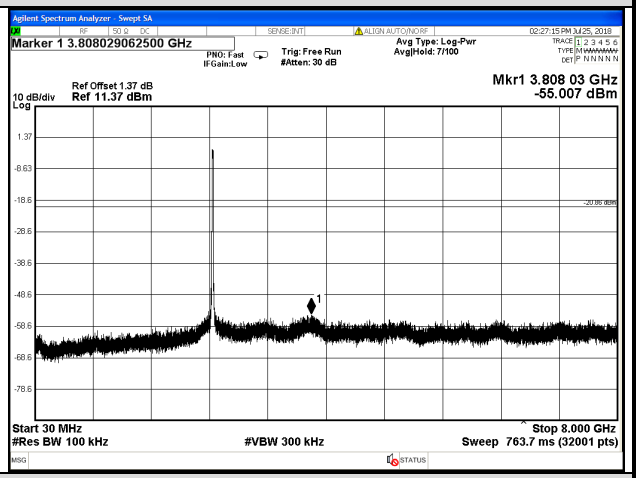
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

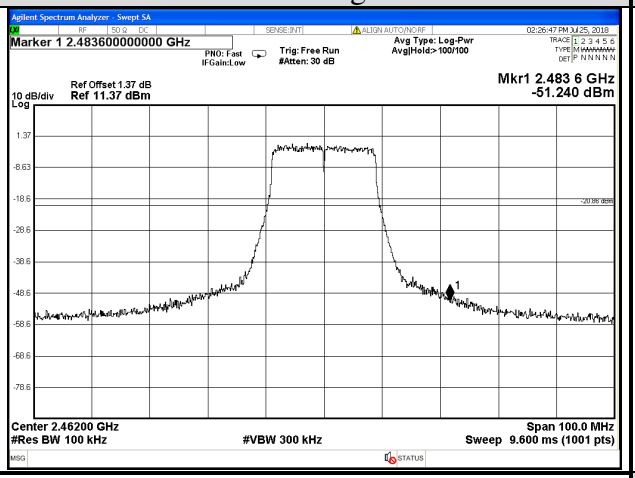
Reference Level



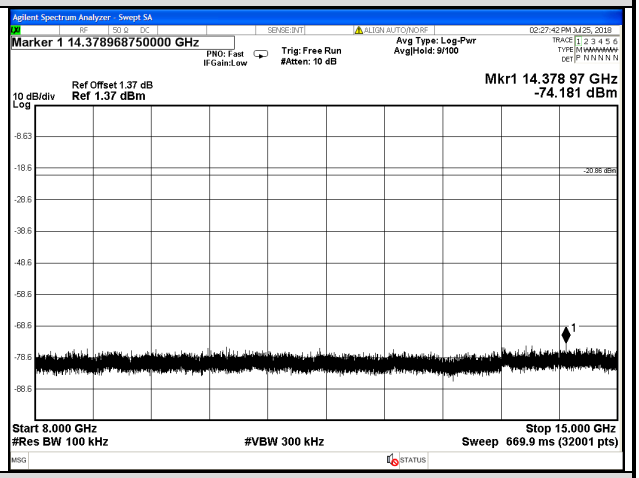
30MHz – 8GHz



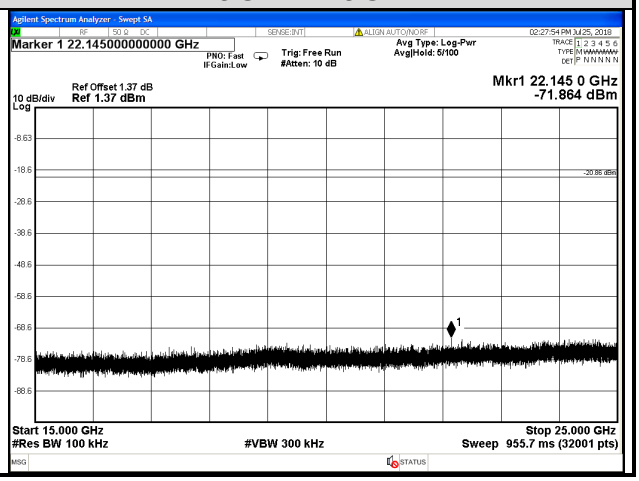
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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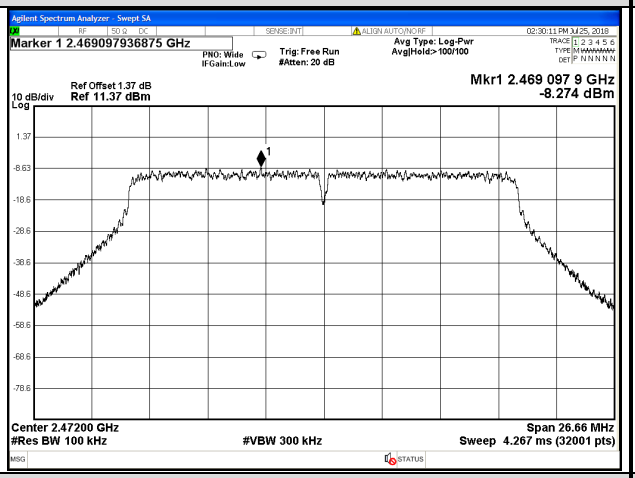
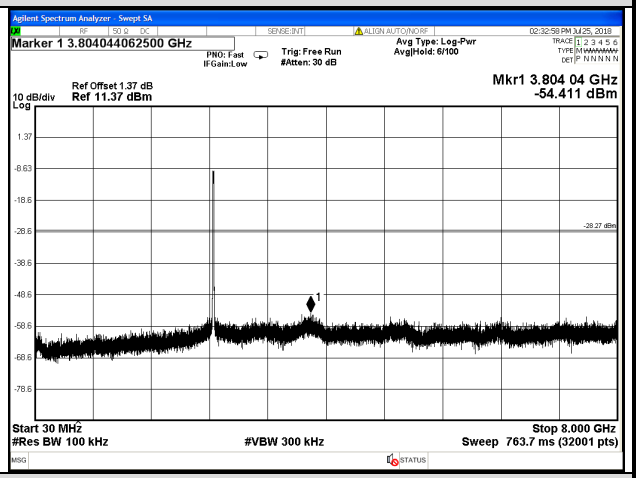
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2472MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

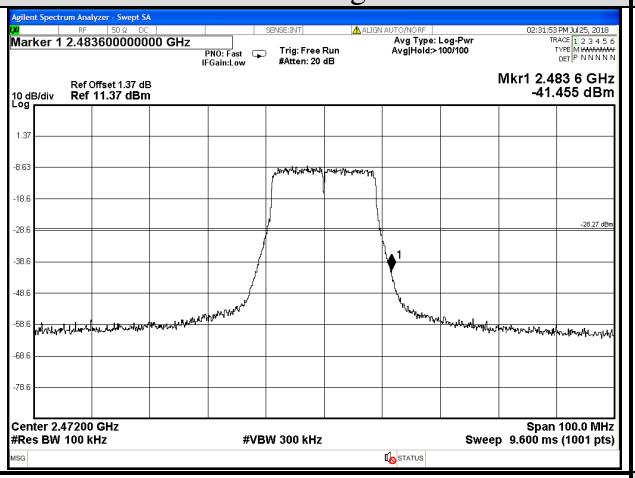
Reference Level



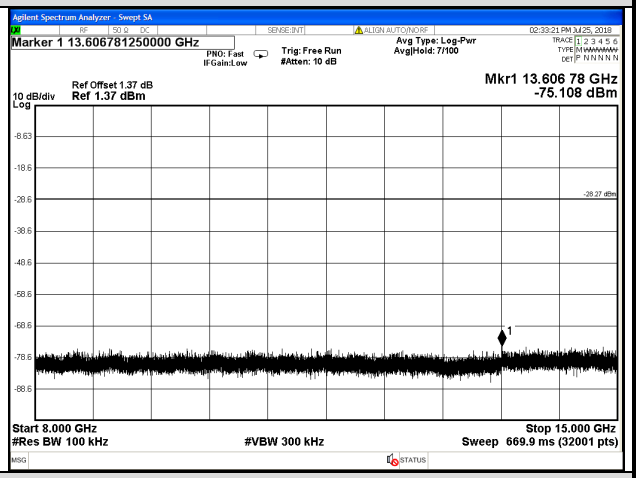
30MHz – 8GHz



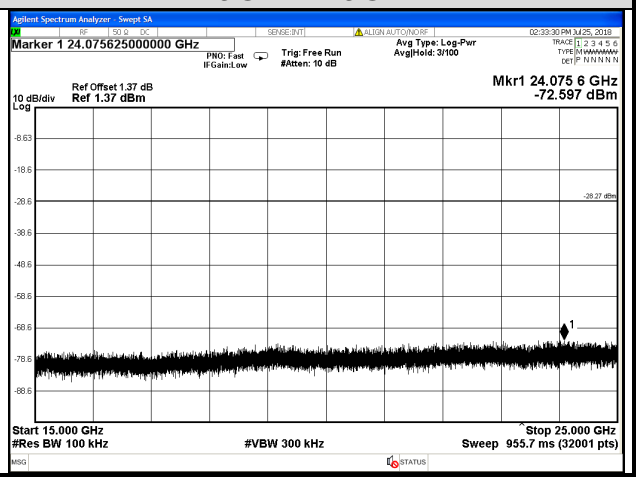
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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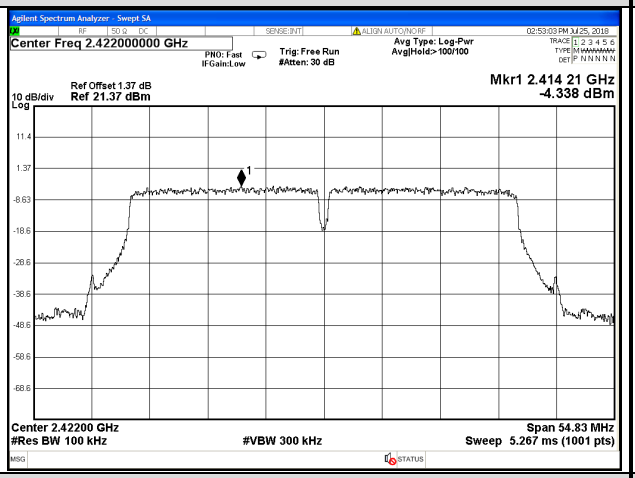
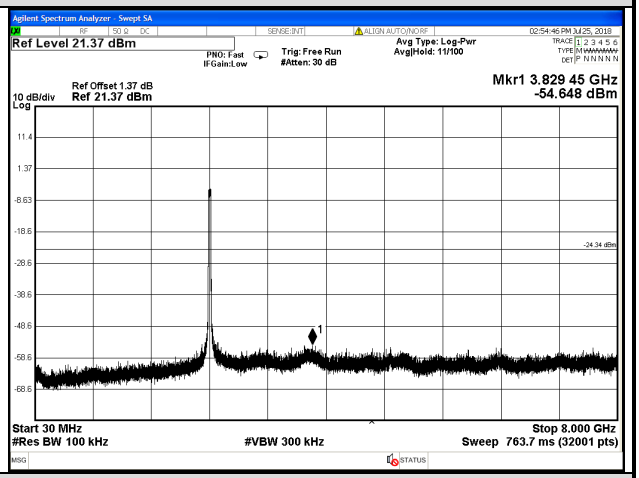
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

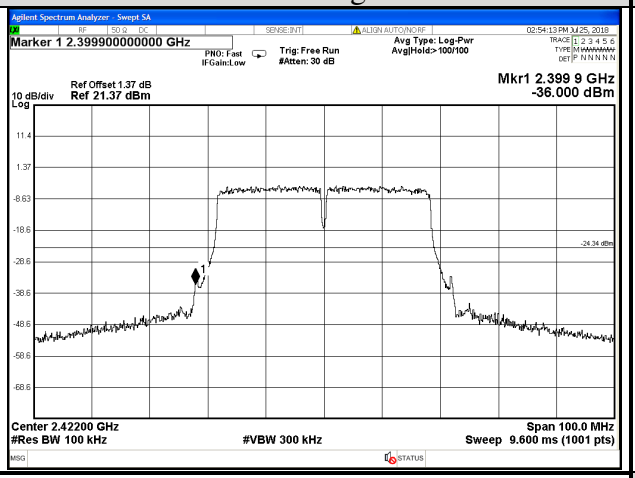
Reference Level



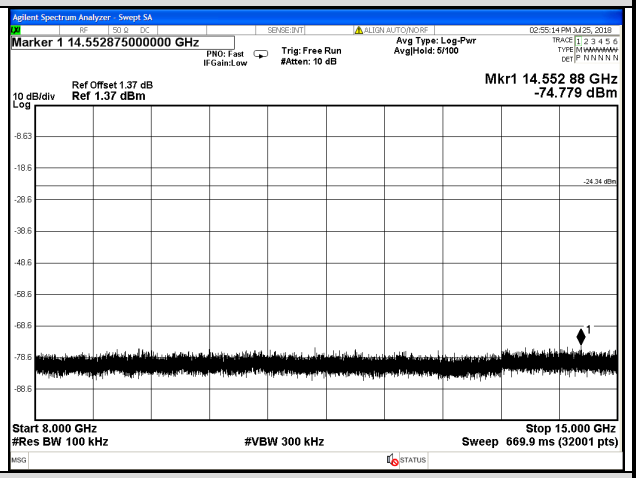
30MHz – 8GHz



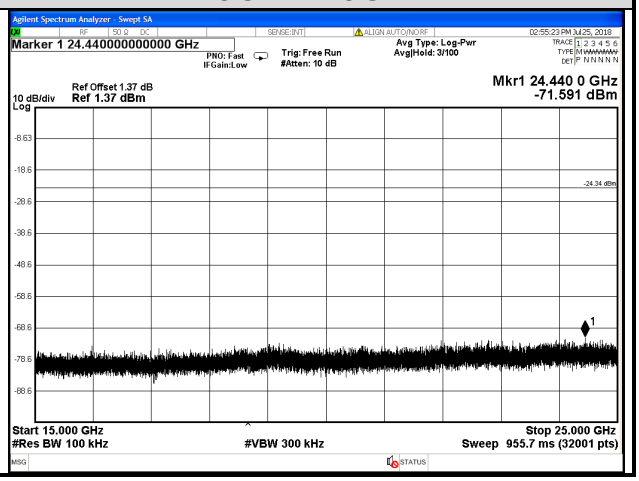
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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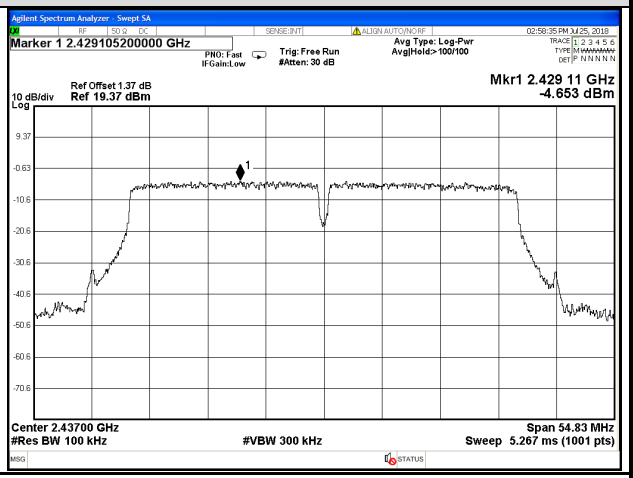
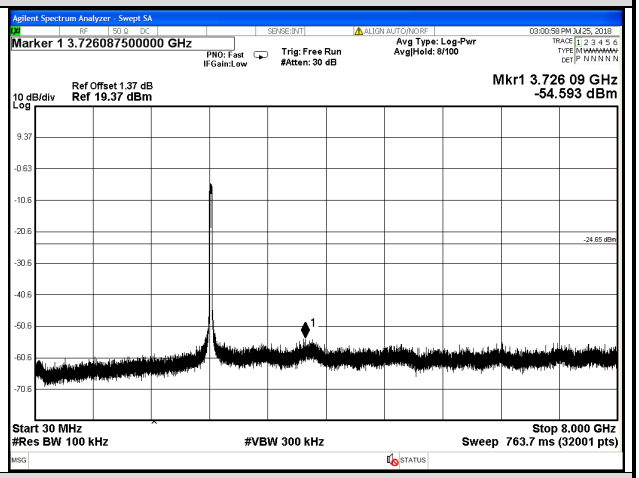
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

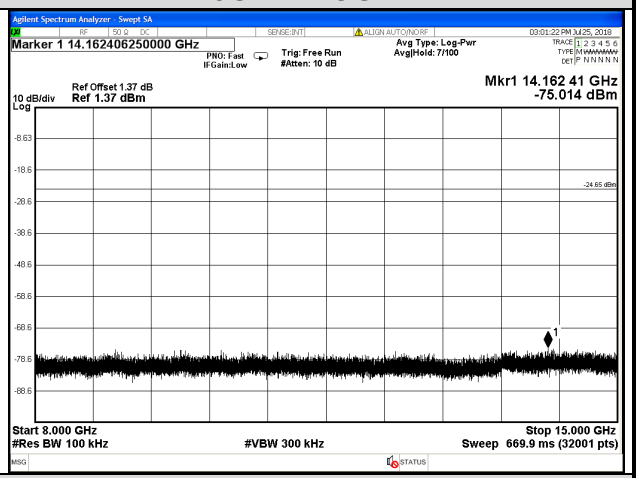
Reference Level



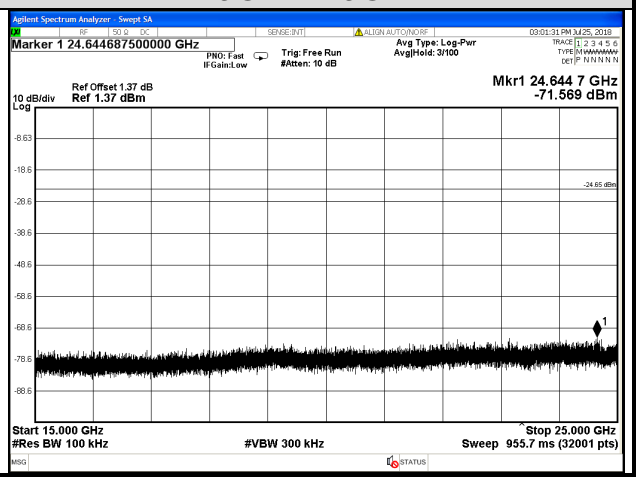
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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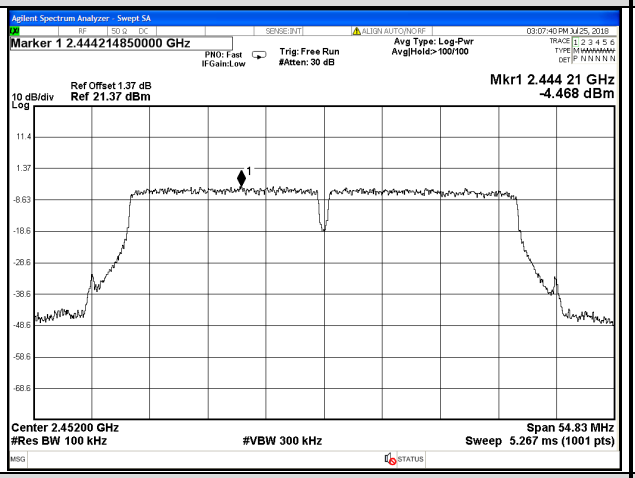
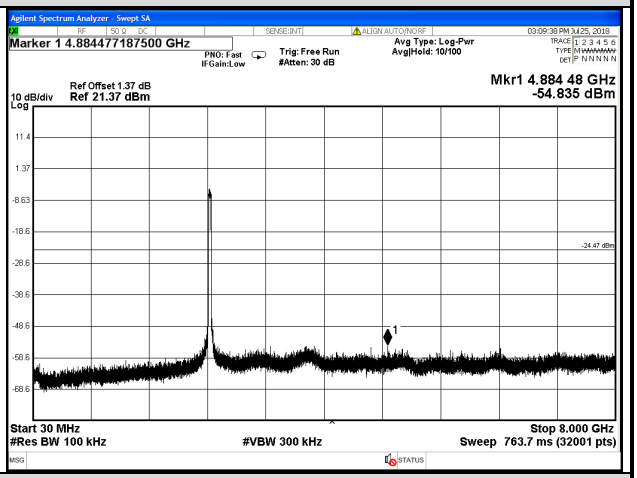
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

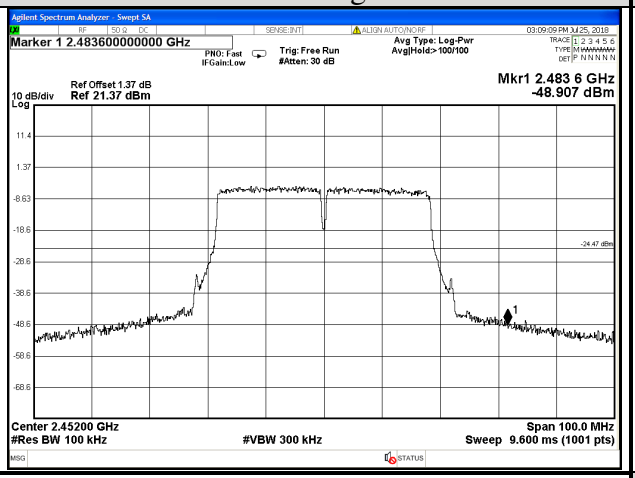
Reference Level



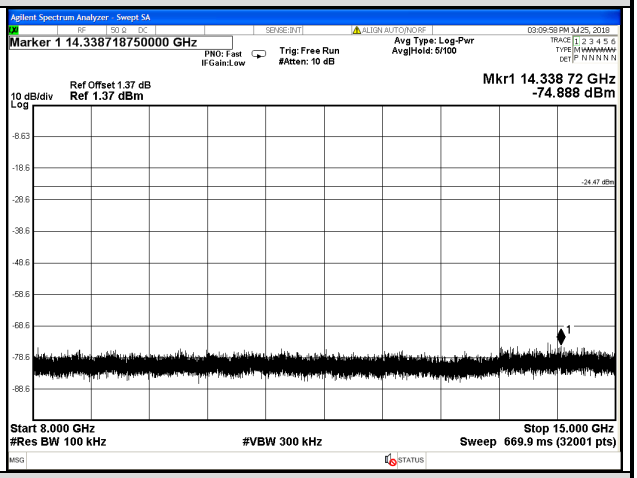
30MHz – 8GHz



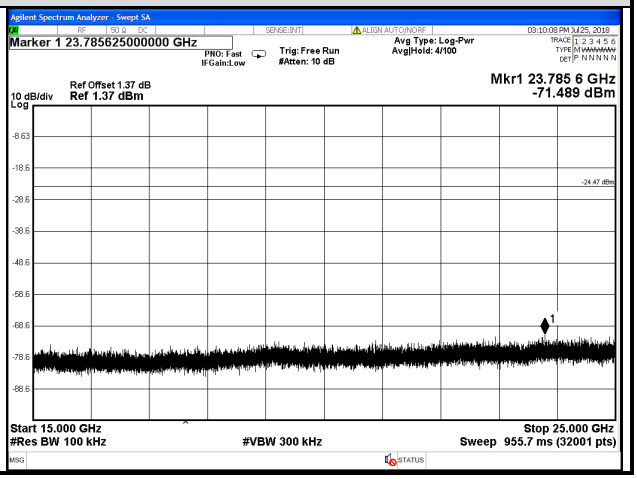
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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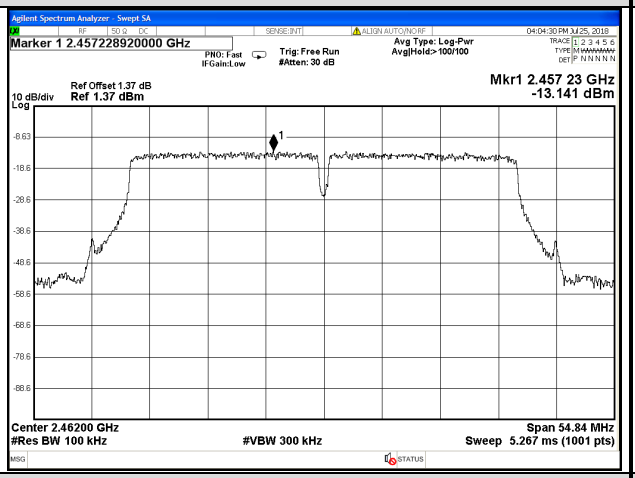
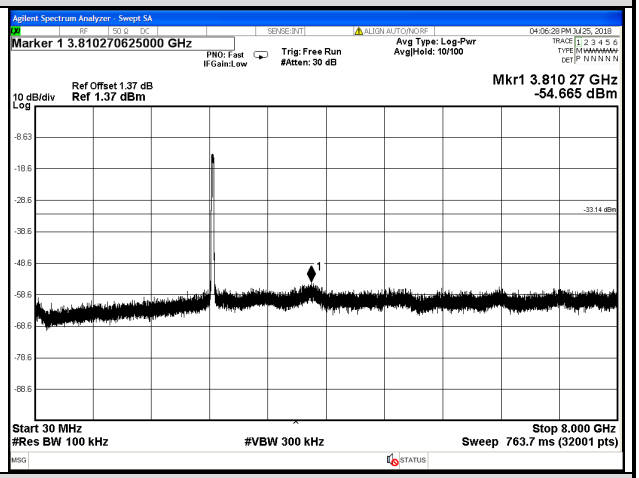
Test Date	2018/07/25	Temp./Hum.	25°C/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

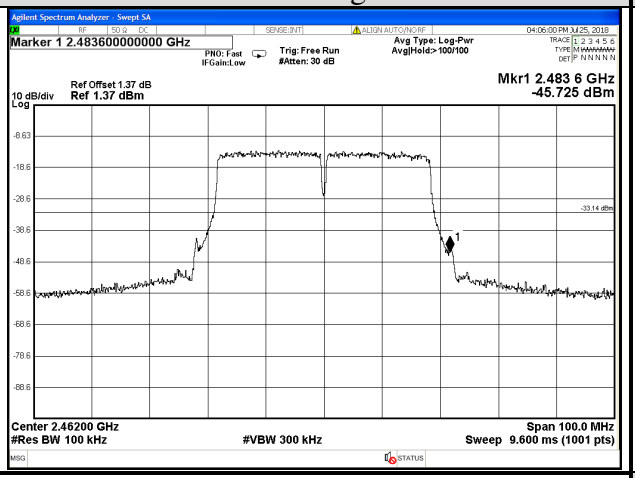
Reference Level



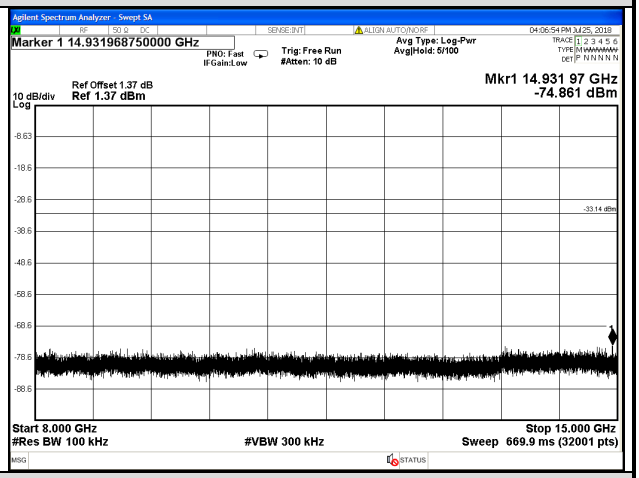
30MHz – 8GHz



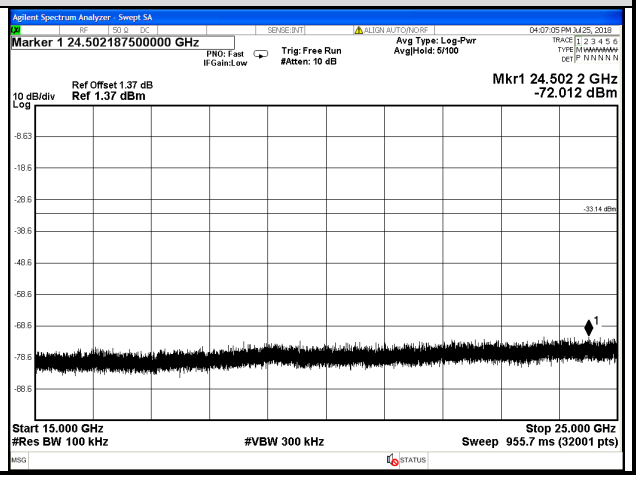
Band Edge



8GHz – 15GHz



15GHz – 25GHz



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A.6 POWER SPECTRAL DENSITY

Test Date	2018/07/24 ~ 25	Temp./Hum.	25℃/53%
Cable Loss	1.37dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0

A.6.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	7.859	< 8 dBm/3kHz
	2437	7.937	
	2462	7.729	
	2472	5.101	
802.11g	2412	0.003	
	2437	1.898	
	2462	-0.565	
	2472	-8.004	
802.11n-HT20	2412	-0.985	
	2437	1.882	
	2462	-0.863	
	2472	-8.274	
802.11n-HT40	2422	-4.338	
	2437	-4.653	
	2452	-4.468	
	2462	-13.141	

Note: 1. All results have been included cable loss and Simultaneous Factor.
2. For KDB558074 D01V04, in the test result, when RBW set at 100kHz is stricter than 3kHz.

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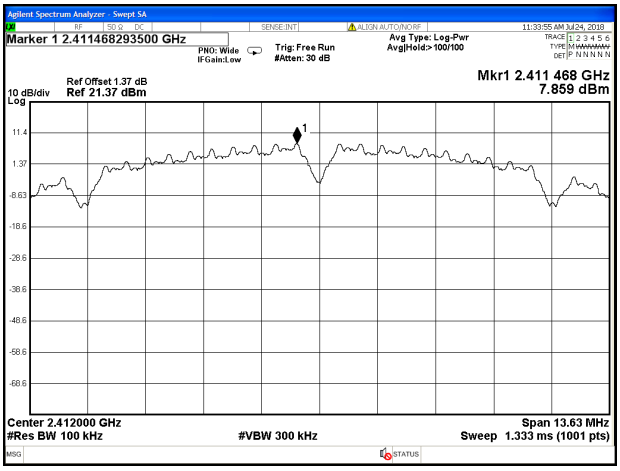
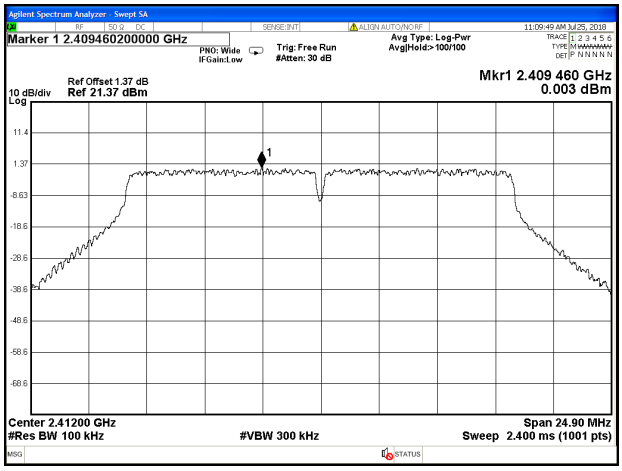
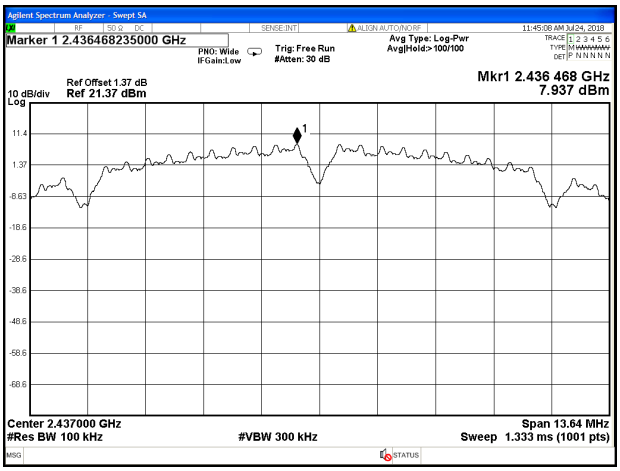
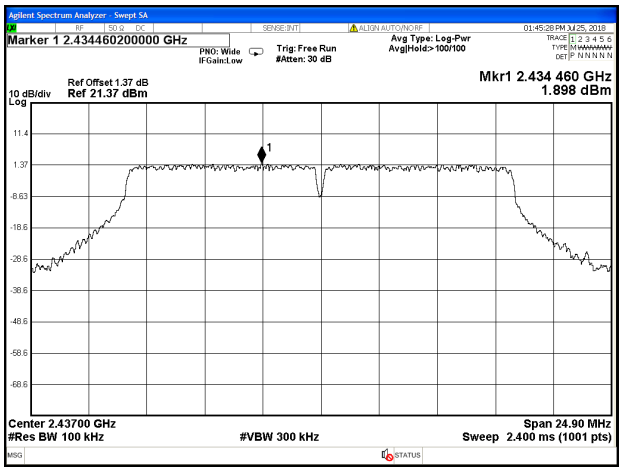
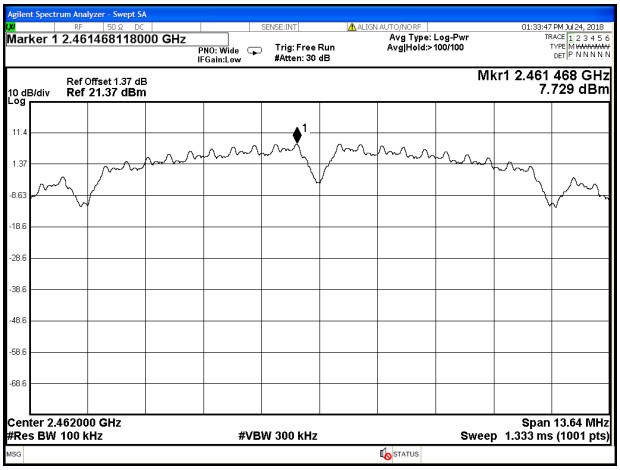
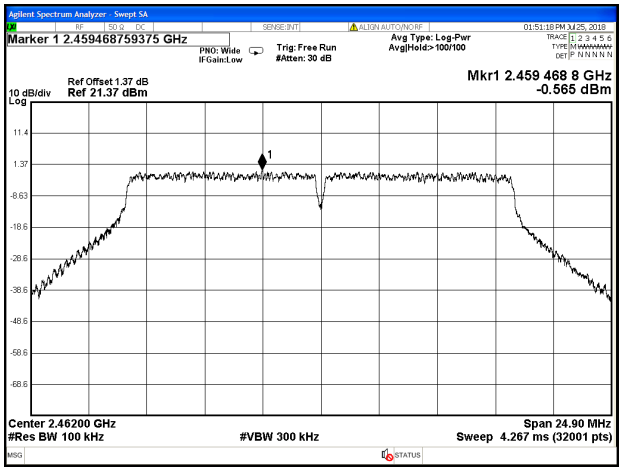
A.6.2 Measurement Plots

802.11b	802.11g
	
	
	

Note: All results have been included cable loss and Simultaneous Factor.

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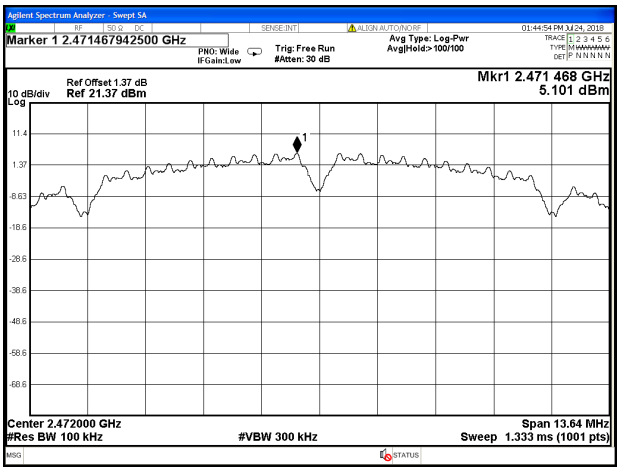
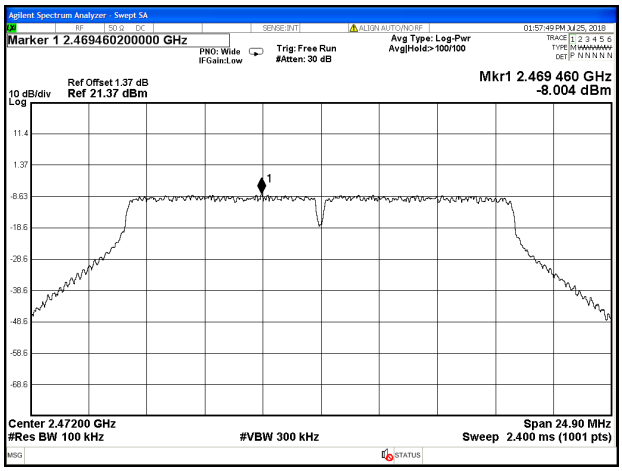
802.11b	802.11g
	

Note: All results have been included cable loss and Simultaneous Factor.

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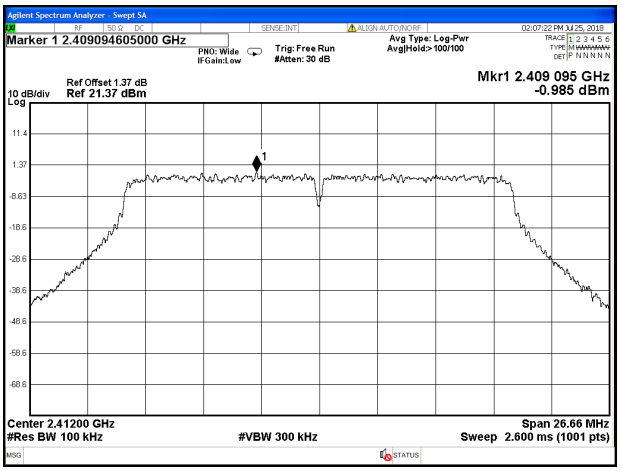
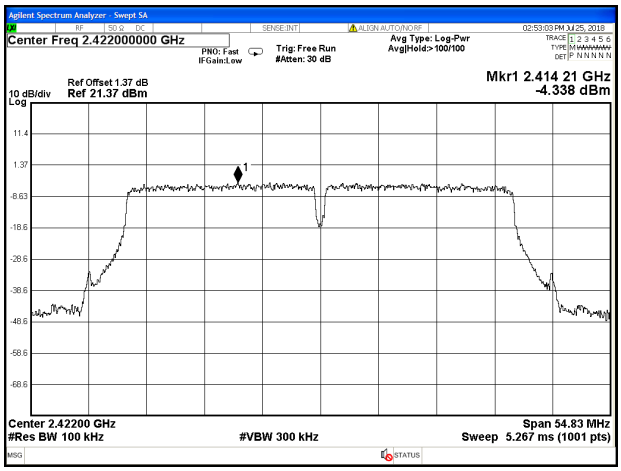
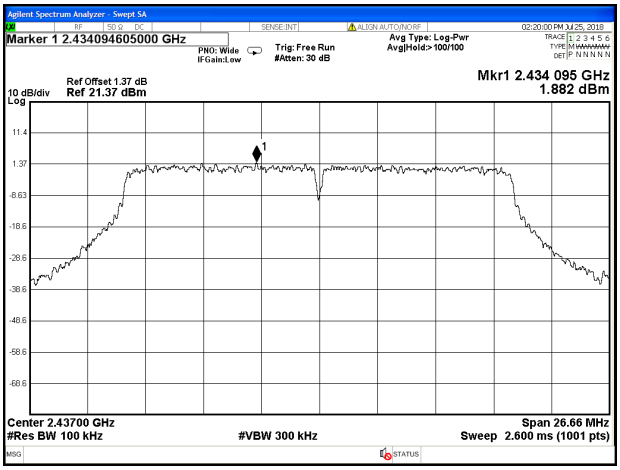
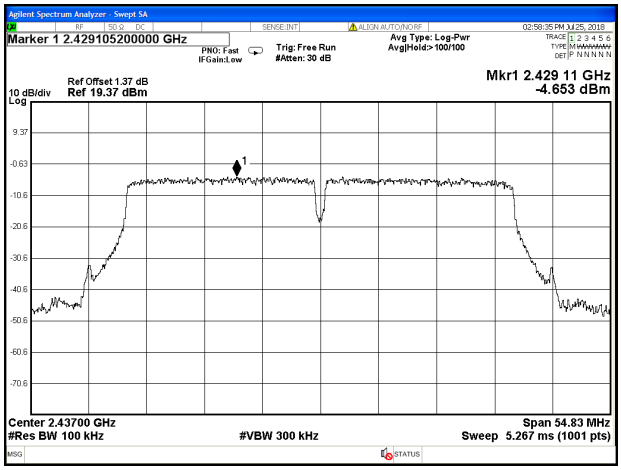
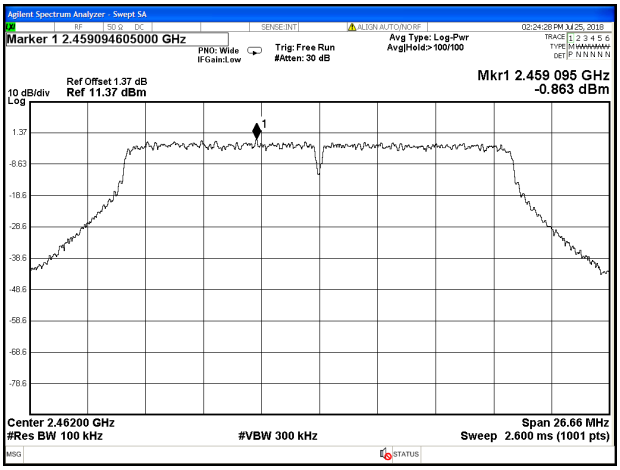
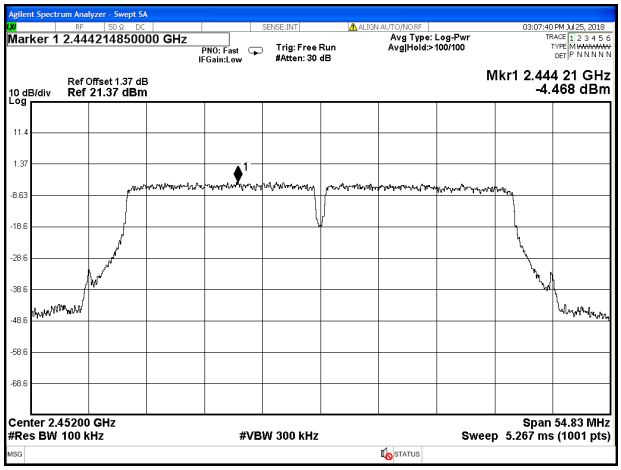
802.11n-HT20	802.11n-HT40
	
	
	

Note: All results have been included cable loss and Simultaneous Factor.

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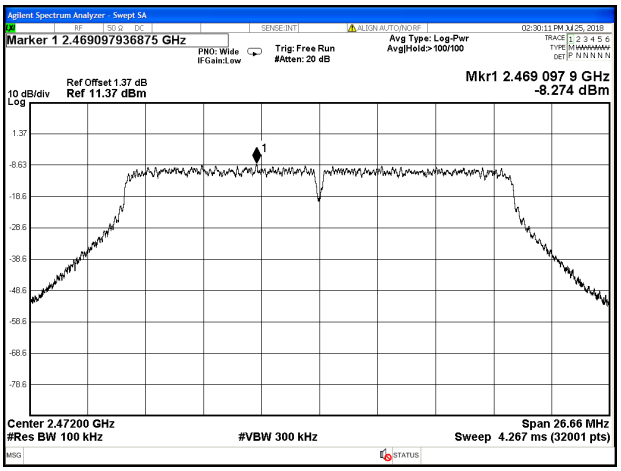
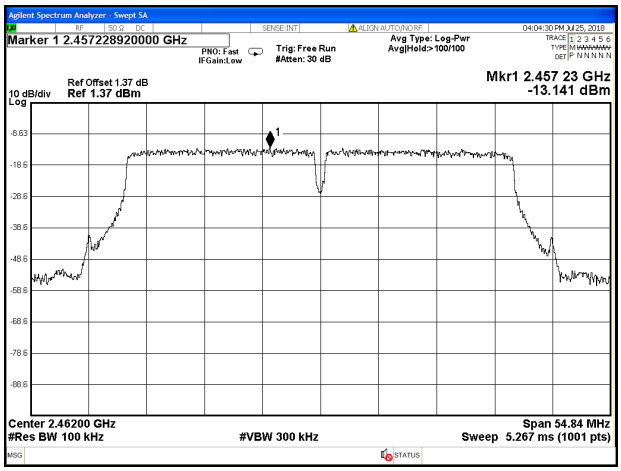
802.11n-HT20	802.11n-HT40
	

Note: All results have been included cable loss and Simultaneous Factor.

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APPDNDIX B

TEST PHOTOGRAPHS

(Model:JY1126W)