Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

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FCC 15.247 & RSS-247
2.4 GHz Test Report

for

Datalogic S.r.l.

Via S. Vitalino 13 Calderara di Reno Italy 40012

Product Name	**:**	**802.11ag/draft 802.11n WLAN PCI-E Minicard**
Model Name	**:**	**SDC-PE15N**
FCC ID	**:**	**U4G-RHINOIIWIN**
IC	**:**	**3862E-RHINOIIWIN**

Prepared by: **:** **AUDIX Technology Corporation, EMC Department**

Testing Laboratory
1724

TESTING
NVLAP LAB CODE 200077-0

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Audix Technology Corp.
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TEST REPORT CERTIFICATION

Applicant	:	Datalogic S.r.l.
Manufacturer	:	SUMMIT DATA COMMUNICATIONS, INC.
EUT Description		
(1) Product	:	802.11ag/draft 802.11n WLAN PCI-E Minicard
(2) Model	:	SDC-PE15N
(3) Rating	:	DC 3.3V

Applicable Standards:

47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 4), November 2014
RSS-247 (Issue 2), February 2017
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v04

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: 2017. 10. 30

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	2017. 10. 30	Original Report	EM-F170619

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2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	**PASS**
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	**PASS**
15.247(a)(2)	RSS-247 §5.2(1)	6dB Bandwidth	**PASS**
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output	**PASS**
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	**PASS**
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	**PASS**
15.203	----	Antenna Requirement	**Compliance**

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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Datalogic S.r.l. Via S. Vitalino 13 Calderara di Reno taly 40012
Manufacturer	SUMMIT DATA COMMUNICATIONS, INC. 526 South Main Street Suite 805 Akron OH 44311 United States Of America
Product	802.11ag/draft 802.11n WLAN PCI-E Minicard
Model	SDC-PE15N

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3.2. Description of EUT

<table>
<tr><td>Test Model</td><td>SDC-PE15N</td></tr>
<tr><td>Serial Number</td><td>N/A</td></tr>
<tr><td>Power Rating</td><td>DC 3.3V</td></tr>
<tr><td>RF Features</td><td>802.11a/b/g/n</td></tr>
<tr><td>Transmit Type</td><td>
<table>
<tr><th colspan="2">2.4 GHz with PCB antenna</th></tr>
<tr><td>802.11b</td><td>1T1R</td></tr>
<tr><td>802.11g</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20</td><td>2T2R</td></tr>
<tr><td>802.11n-HT40</td><td>2T2R</td></tr>
</table>
<table>
<tr><th colspan="2">2.4 GHz with omni-s antenna</th></tr>
<tr><td>802.11b</td><td>1T1R</td></tr>
<tr><td>802.11g</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20</td><td>1T1R</td></tr>
<tr><td>802.11n-HT40</td><td>1T1R</td></tr>
</table>
<table>
<tr><th colspan="2">UNII Bands with PCB antenna</th></tr>
<tr><td>802.11a</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20</td><td>2T2R</td></tr>
<tr><td>802.11n-HT40</td><td>2T2R</td></tr>
</table>
<table>
<tr><th colspan="2">UNII Bands with omni-s antenna</th></tr>
<tr><td>802.11a</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20</td><td>1T1R</td></tr>
<tr><td>802.11n-HT40</td><td>1T1R</td></tr>
</table>
</td></tr>
<tr><td>Sample Status</td><td>Production</td></tr>
<tr><td>Date of Receipt</td><td>2017. 08. 17</td></tr>
<tr><td>Date of Test</td><td>2017. 09. 04 ~ 10. 30</td></tr>
<tr><td>I/O Ports List</td><td>N/A</td></tr>
<tr><td>Accessories Supplied</td><td>N/A</td></tr>
</table>

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3.3. Antenna Information

2.4G Antenna					
No.	**Antenna Part Number**	**Manufacture**	**Antenna Type**	**Frequency (MHz)**	**Max Gain (dBi)**
1	1399.99.0124 (Tx1 Antenna)	HUBER+SUHNER	PCB	2400 to 2500	1
2	1399.99.0124 (Tx2 Antenna)		PCB	2400 to 2500	1
3	1399.17.0106	HUBER+SUHNER	Omni-S	2400 to 2500	6
				2500 to 2700	6

5G Antenna					
No.	**Antenna Part Number**	**Manufacture**	**Antenna Type**	**Frequency (MHz)**	**Max Gain (dBi)**
1	1399.99.0124 (Tx1 Antenna)	HUBER+SUHNER	PCB	5150 to 5875	1
2	1399.99.0124 (Tx2 Antenna)		PCB	5150 to 5875	1
3	1399.17.0106	HUBER+SUHNER	Omni-S	4900 to 5470	8
				5470 to 5935	8

Note: The two type antennas can't simultaneous use. They will be setup done by software before market. The output power depends on antenna type accordingly.

3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number
802.11b	2412-2462	11
802.11g		11
802.11n-HT20		11
802.11n-HT40	2422-2452	7

Mode	Modulation	Data Rate (Mbps)
802.11b	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20		Up to 144.4
802.11n-HT40		Up to 300

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

RMS Output Power (dBm)				
Channel	802.11b	802.11g	802.11n-HT20	802.11n-HT40
1	16.58	12.52	9.93	
2	16.38	14.23	14.43	
3	16.51	15.91	16.05	13.16
4	16.42	15.93	16.13	9.33
5	16.51	15.96	16.11	13.23
6	16.34	15.99	16.14	13.25
7	16.38	15.99	16.16	11.26
8	16.41	16.01	16.12	13.26
9	16.41	15.98	16.12	13.27
10	16.40	14.40	14.52	
11	16.39	12.77	10.37	

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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	16.39
1	DQPSK	2	16.23
1	CCK	5.5	16.17
1	CCK	11	15.98
802.11g			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6	12.49
1	BPSK	9	12.20
1	QPSK	12	12.07
1	QPSK	18	11.98
1	16-QAM	24	11.56
1	16-QAM	36	11.19
1	64-QAM	48	10.62
1	64-QAM	54	10.47

802.11n-HT20 (with PCB antenna)				802.11n-HT20 (with omni-s antenna)			
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power (dBm)
1	BPSK	MCS8	10.55	1	BPSK	MCS0	10.63
1	QPSK	MCS9	10.02	1	QPSK	MCS1	10.27
1	QPSK	MCS10	9.32	1	QPSK	MCS2	10.10
1	16-QAM	MCS11	9.09	1	16-QAM	MCS3	9.92
1	16-QAM	MCS12	8.48	1	16-QAM	MCS4	9.31
1	64-QAM	MCS13	8.04	1	64-QAM	MCS5	8.91
1	64-QAM	MCS14	7.84	1	64-QAM	MCS6	8.80
1	64-QAM	MCS15	7.73	1	64-QAM	MCS7	8.62

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802.11n-HT40 (with PCB antenna)				802.11n-HT40 (with omni-s antenna)			
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power (dBm)
1	BPSK	MCS8	8.49	1	BPSK	MCS0	8.92
1	QPSK	MCS9	7.85	1	QPSK	MCS1	8.39
1	QPSK	MCS10	7.17	1	QPSK	MCS2	8.24
1	16-QAM	MCS11	6.70	1	16-QAM	MCS3	7.82
1	16-QAM	MCS12	6.64	1	16-QAM	MCS4	7.70
1	64-QAM	MCS13	6.17	1	64-QAM	MCS5	7.19
1	64-QAM	MCS14	6.07	1	64-QAM	MCS6	7.03
1	64-QAM	MCS15	5.93	1	64-QAM	MCS7	6.82

Note: Above results are assessed in average power.

3.7. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	1	8.610	0
802.11g	0.93	1.420	0.32

Mode	Duty Cycle (x)		T (ms)		Duty Cycle Factor (dB)	
	PCB antenna	Omni-s antenna	PCB antenna	Omni-s antenna	PCB antenna	Omni-s antenna
802.11n-HT20	0.93	0.92	1.334	1.335	0.32	0.36
802.11n-HT40	0.85	0.86	0.666	0.654	0.71	0.66

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.

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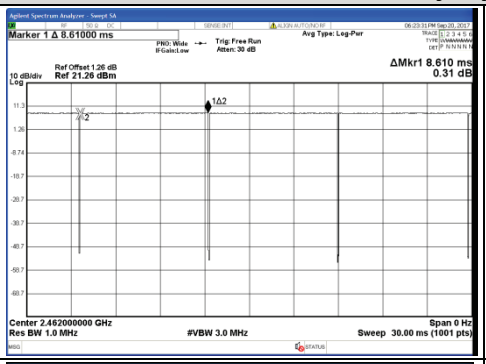
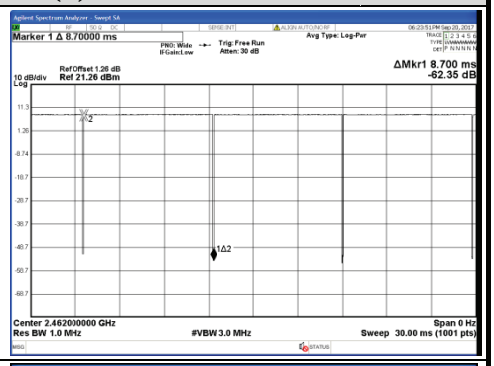
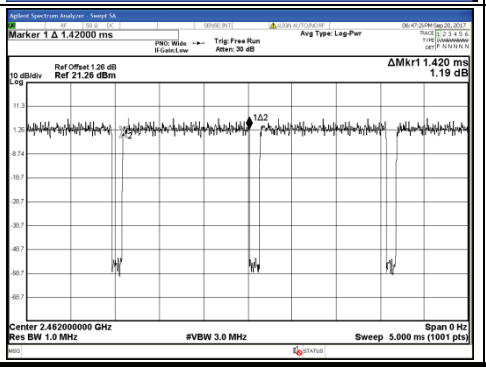
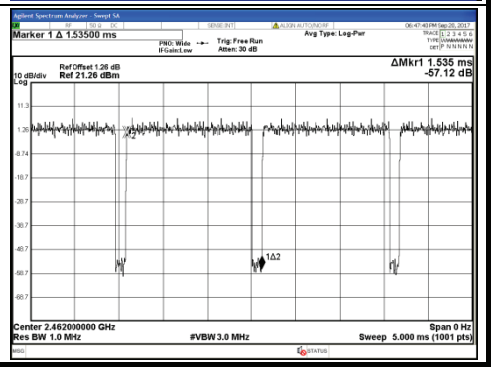
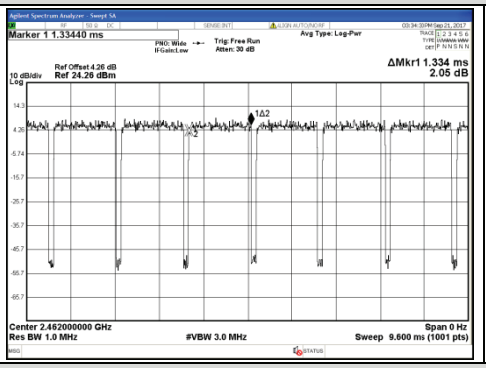
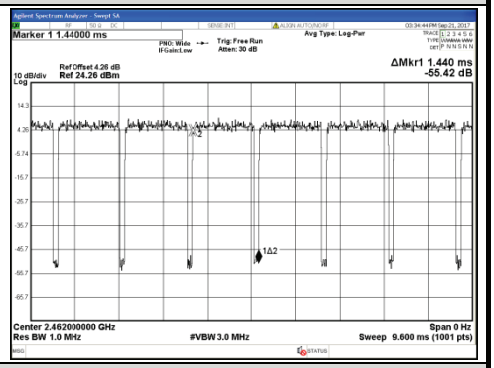
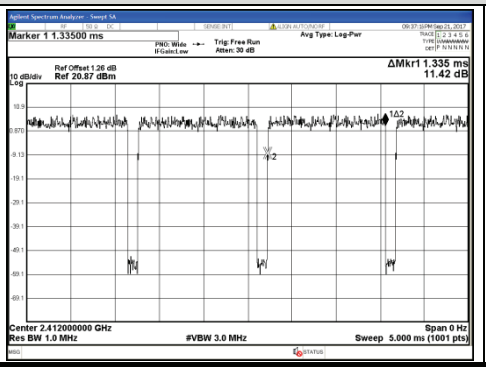
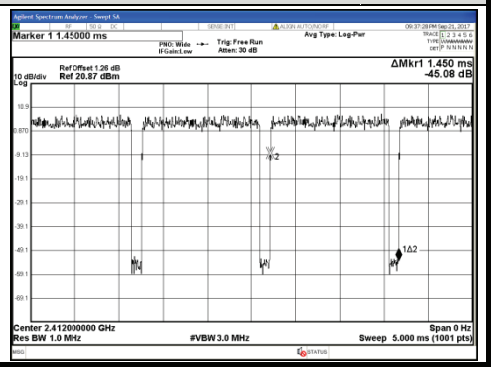
Mode	Duty Cycle (x)	
802.11b		
802.11g		

Mode	Duty Cycle (x) PCB antenna	
802.11n-HT20		
	Duty Cycle (x) Omni-s antenna	
		

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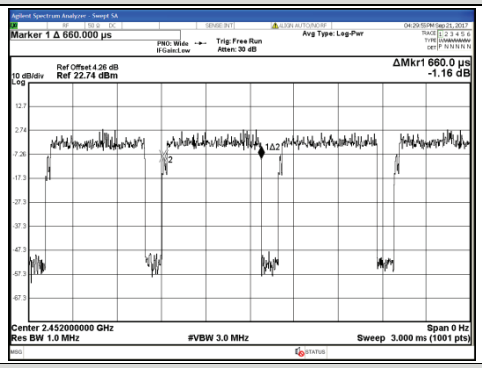
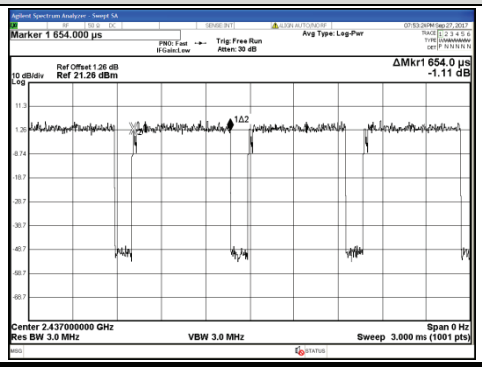
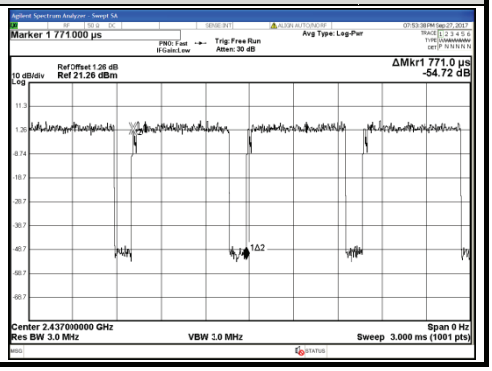
Mode	Duty Cycle (x)
	PCB antenna
802.11n-HT40	 
	Duty Cycle (x)
	Omni-s antenna
	 

AC Conduction	
Test Case	Normal operation

Item			Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	with PCB antenna	802.11b	1Mbps	1/11
			802.11g	6Mbps	1/11
			802.11n-HT20	MCS8	111
			802.11n-HT40	MCS8	3/9
		with omni-s antenna	802.11b	1Mbps	1/11
			802.11g	6Mbps	1/11
			802.11n-HT20	MCS0	111
			802.11n-HT40	MCS0	3/9
	Radiated Spurious Emission Note1 & 2	with PCB antenna	802.11b	1 Mbps	11
			802.11g	6Mbps	6
			802.11n-HT20	MCS8	6
			802.11n-HT40	MCS8	6
		with omni-s antenna	802.11b	1 Mbps	11
			802.11g	6Mbps	6
			802.11n-HT20	MCS0	6
			802.11n-HT40	MCS0	6

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Item			Mode	Data Rate	Test Channel
Conducted Test Case	6dB Bandwidth		802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS8	1/6/11
			802.11n-HT40	MCS8	3/6/9
	Peak Power Spectral Density	with PCB antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS8	1/6/11
			802.11n-HT40	MCS8	3/6/9
		with omni-s antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS0	1/6/11
			802.11n-HT40	MCS0	3/6/9
	Peak Output Power	with PCB antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS8	1/6/11
			802.11n-HT40	MCS8	3/6/9
		with omni-s antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS0	1/6/11
			802.11n-HT40	MCS0	3/6/9
Conducted Test Case	Band Edge		802.11b	1Mbps	1/11
			802.11g	6Mbps	1/11
			802.11n-HT20	MCS8	1/11
			802.11n-HT40	MCS8	3/9
	Spurious Emission	with PCB antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS8	1/6/11
			802.11n-HT40	MCS8	3/6/9
		with omni-s antenna	802.11b	1Mbps	1/6/11
			802.11g	6Mbps	1/6/11
			802.11n-HT20	MCS0	1/6/11
			802.11n-HT40	MCS0	3/6/9

Note 1:

☐ Mobile Device.

■ Portable Device, and 3 axis were assessed.

- ☐ 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.	FCC ID
1.	Notebook PC	acer	MS2362	N/A	Contains FCC ID: PPD-AAR5B22
2.	JIG	N/A	N/A	N/A	N/A

3.8.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	Adapter: Enerironix, M/N EXA1208UH DC Power Cord: Unshielded, Detachable, 1.8m, Bonded a ferrite core AC Power Cord: Unshielded, Detachable, 1.8m
2.	---

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 “LRU” 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: sales@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 (3) FCC OET Designation No. TW1004 & TW1090 & TW1724
Test Facilities	(1) No. 7 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 EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101276	2017. 03. 23	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2017. 07. 20	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-881-13	2016. 12. 28	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101495	2017. 01. 16	1 Year
5.	Test Software	Audix	e3	V.120619C	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	N9010A-526	MY53400071	2017. 09. 13	1 Year
2.	Spectrum Analyzer	Agilent	N9010A-526	MY52220368	2016. 12. 01	1 Year
3.	Test Receiver	R & S	ESCS30	100338	2017. 06. 19	1 Year
4.	Amplifier	HP	8447D	2944A06305	2017. 02. 16	1 Year
5.	Amplifier	Sonoma	310N	187161	2017. 06. 08	1 Year
6.	Bilog Antenna	CHASE	CBL6112D	33821	2017. 01. 21	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2016. 12. 23	1 Year
8.	Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00135902	2017. 03. 08	1 Year
9.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2017. 07. 26	1 Year
10.	3GHz Notch Filter	Microwave	H3G018G1	484798	2017. 08. 25	1 Year
11.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2017. 01. 02	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2016. 10. 27	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2016. 10. 27	1 Year

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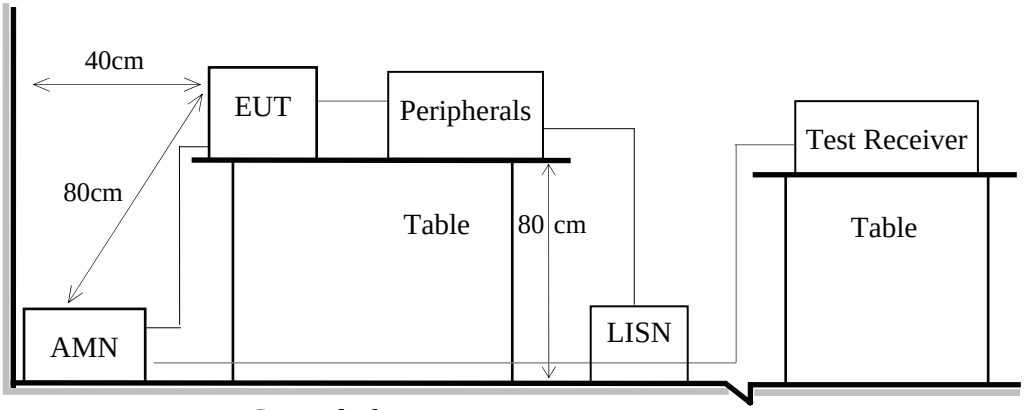
5. CONDUCTED EMISSION

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

Remark 1.: 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.

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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 150 kHz 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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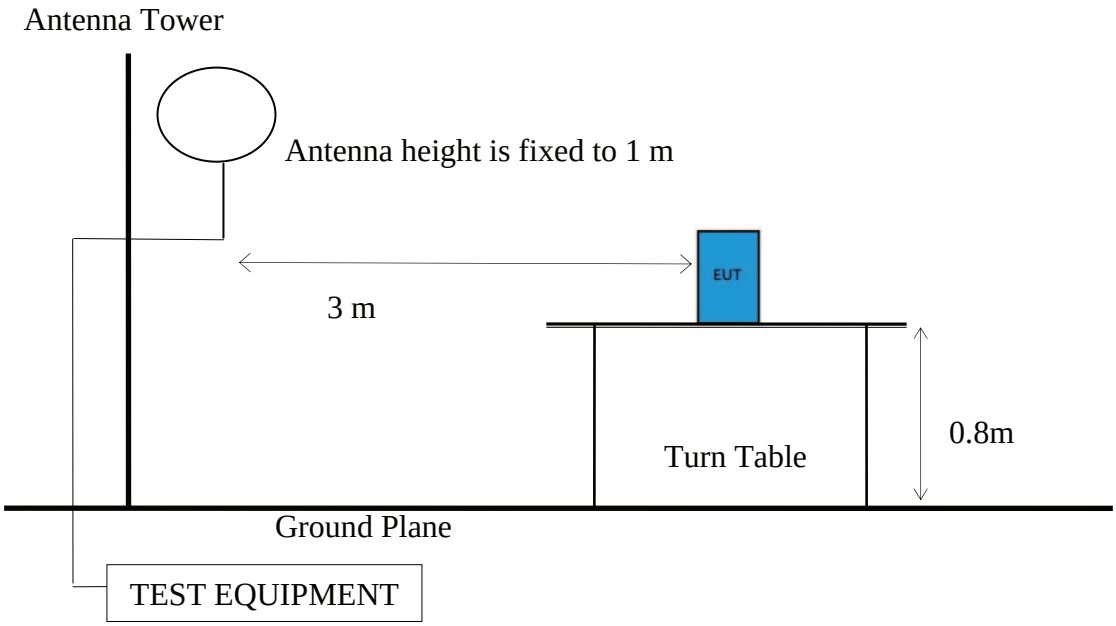
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

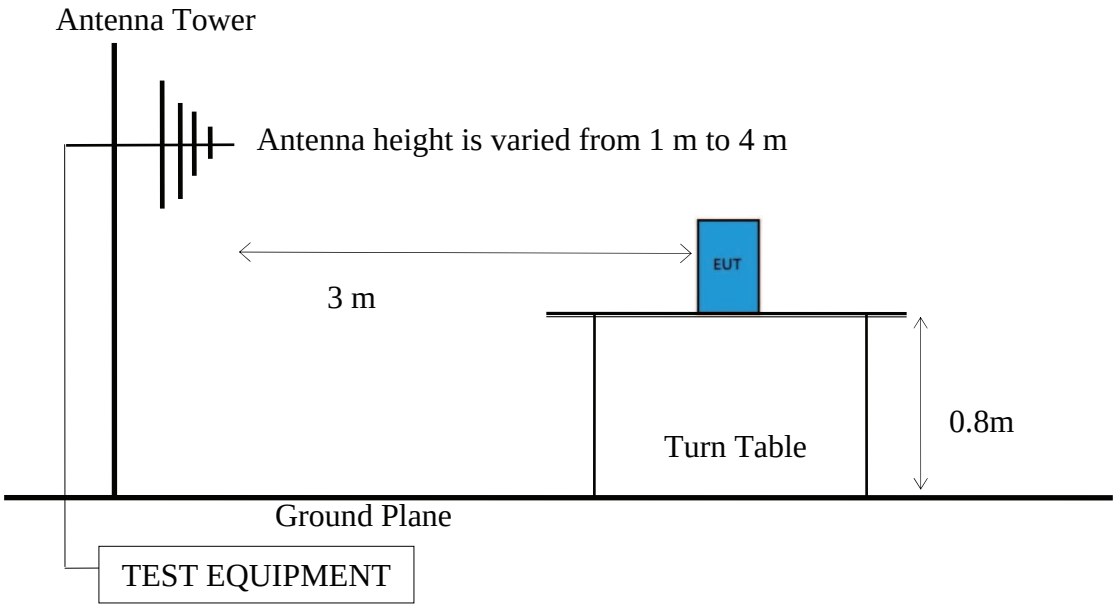
6.1.1. Block Diagram of EUT

Indicated as section 3.9

6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



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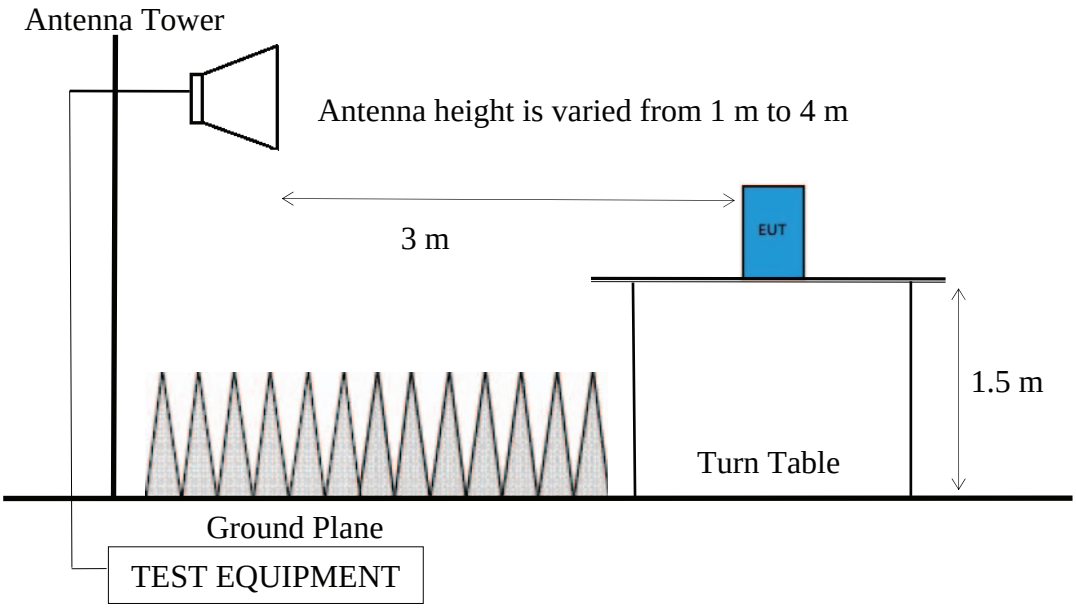
6.1.4. Setup Diagram for above 1GHz



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/RSS-Gen Section 8.10 table 6, 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	2400/kHz
0.490 - 1.705	30	87.6	24000/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 turn table 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 C63.10-2013 regulation.

(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 turn find table which has 80 cm (for 30-1000 MHz) 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 C63.10-2013 regulation.

Frequency below 1 GHz:
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 the Q.P. detector is not required. Otherwise using Q.P. for finally 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 finally 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 (kHz)
802.11b	8.610	0.116	0.01
802.11g	1.420	0.704	0.68
802.11n-HT20	1.334	0.750	0.75
802.11n-HT40	0.666	1.502	1.60

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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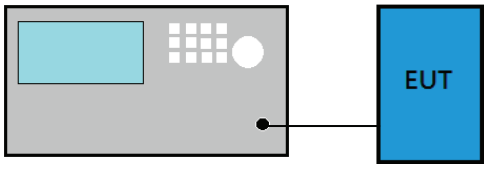
7. 6dB BANDWIDTH

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 KDB 558074 D01 DTS Meas Guidance v04:

(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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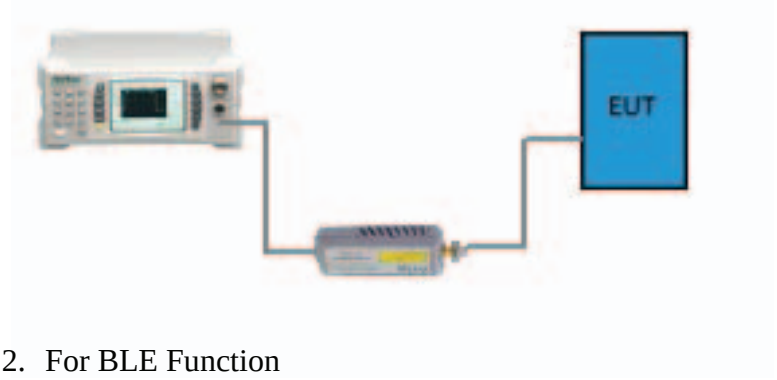
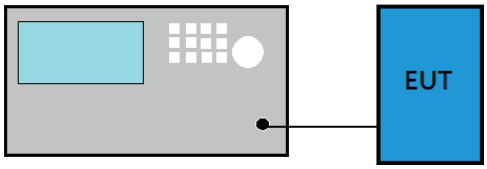
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup

8.1.1. For WLAN Function



8.1.2. For BLE Function



8.2. Specification Limits

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

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8.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v04:

■PKPM1 Peak power meter method:

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

□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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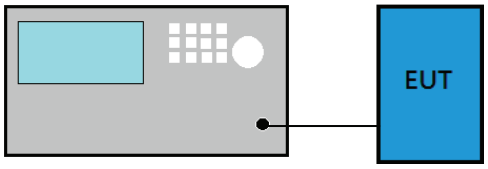
9. EMISSION LIMITATIONS

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 the 100kHz 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)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v04:

■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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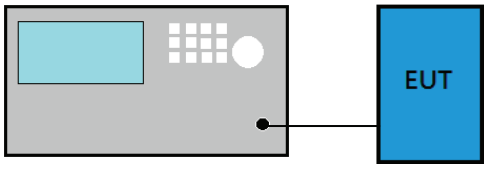
10. POWER SPECTRAL DENSITY

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 KDB 558074 D01 DTS Meas Guidance v04:

■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: SDC-PE15N)

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APPDNDIX B

TEST PHOTOGRAPHS

(Model: SDC-PE15N)

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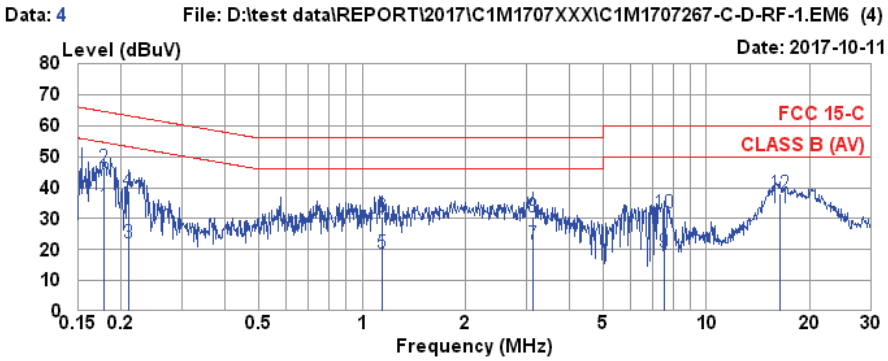
A.1 CONDUCTED EMISSION

Test Date	2017/10/11	Temp./Hum.	27℃/58%
Test Voltage	DC 3.3V (Via Notebook PC)		
Antenna	PCB Antenna		



Site no. : No.7 Shielded Room Data no. : 4
Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL
Limit : FCC 15-C
Env. / Ins. : 27*C / 58% ESCI(1276) Engineer : Nick Du
EUT : SDC-PE15N
Power Rating : DC 3.3V
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	0.179	0.18	0.04	9.86	23.94	34.02	54.55	20.53	Average
2	0.179	0.18	0.04	9.86	36.42	46.50	64.55	18.05	QP
3	0.209	0.17	0.04	9.86	12.31	22.38	53.23	30.85	Average
4	0.209	0.17	0.04	9.86	28.75	38.82	63.23	24.41	QP
5	1.141	0.23	0.06	9.86	8.61	18.76	46.00	27.24	Average
6	1.141	0.23	0.06	9.86	20.33	30.48	56.00	25.52	QP
7	3.140	0.30	0.15	9.87	11.58	21.90	46.00	24.10	Average
8	3.140	0.30	0.15	9.87	20.11	30.43	56.00	25.57	QP
9	7.526	0.46	0.20	9.88	8.95	19.49	50.00	30.51	Average
10	7.526	0.46	0.20	9.88	21.23	31.77	60.00	28.23	QP
11	16.398	0.86	0.29	9.93	22.42	33.50	50.00	16.50	Average
12	16.398	0.86	0.29	9.93	27.21	38.29	60.00	21.71	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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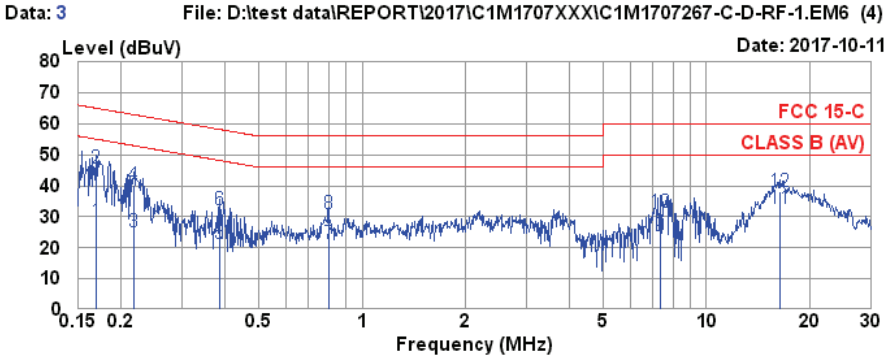
Test Date	2017/10/11	Temp./Hum.	27℃/58%
Test Voltage	DC 3.3V (Via Notebook PC)		
Antenna	PCB Antenna		



Site no. : No.7 Shielded Room
Condition : ESH2-Z5 366(ADAPTER)
Limit : FCC 15-C
Env. / Ins. : 27*C / 58% ESCI(1276)
EUT : SDC-PE15N
Power Rating : DC 3.3V
Test Mode : Operating

Data no. : 3
Phase : LINE
Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.169	0.17	0.03	9.86	18.52	28.58	55.03	26.45	Average
2	0.169	0.17	0.03	9.86	35.73	45.79	65.03	19.24	QP
3	0.217	0.16	0.04	9.86	15.22	25.28	52.92	27.64	Average
4	0.217	0.16	0.04	9.86	30.15	40.21	62.92	22.71	QP
5	0.385	0.18	0.04	9.86	11.16	21.24	48.17	26.93	Average
6	0.385	0.18	0.04	9.86	22.27	32.35	58.17	25.82	QP
7	0.800	0.20	0.05	9.86	11.18	21.29	46.00	24.71	Average
8	0.800	0.20	0.05	9.86	20.75	30.86	56.00	25.14	QP
9	7.368	0.49	0.20	9.88	13.12	23.69	50.00	26.31	Average
10	7.368	0.49	0.20	9.88	20.74	31.31	60.00	28.69	QP
11	16.312	0.96	0.29	9.93	21.40	32.58	50.00	17.42	Average
12	16.312	0.96	0.29	9.93	26.98	38.16	60.00	21.84	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	2017/09/27	Temp./Hum.	23℃/48%
Test Voltage	DC 3.3V (Via Notebook PC)		

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

Antenna: PCB Antenna

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
51.34	14.45	1.59	2.60	18.64	40.00	21.36	Peak
138.64	17.87	2.71	8.22	28.80	43.50	14.70	Peak
232.73	18.04	3.66	18.84	40.54	46.00	5.46	Peak
665.35	24.80	6.97	4.61	36.38	46.00	9.62	Peak
859.35	26.47	7.95	3.78	38.20	46.00	7.80	Peak
982.54	27.66	8.72	2.85	39.23	54.00	14.77	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
31.94	23.76	1.25	7.62	32.63	40.00	7.37	Peak
168.71	15.92	3.02	12.61	31.55	43.50	11.95	Peak
398.60	22.04	5.54	4.62	32.20	46.00	13.80	Peak
640.13	24.74	6.89	1.69	33.32	46.00	12.68	Peak
937.92	27.22	8.43	1.97	37.62	46.00	8.38	Peak
984.48	27.69	8.74	1.33	37.76	54.00	16.24	Peak

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Antenna: Omni-S Antenna

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
34.85	22.37	1.31	2.90	26.58	40.00	13.42	Peak
165.80	16.06	2.99	12.80	31.85	43.50	11.65	Peak
299.66	19.48	4.30	14.36	38.14	46.00	7.86	Peak
399.57	22.04	5.54	5.84	33.42	46.00	12.58	Peak
699.30	24.87	7.08	6.24	38.19	46.00	7.81	Peak
969.93	27.52	8.63	2.54	38.69	54.00	15.31	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
34.85	22.37	1.31	9.77	33.45	40.00	6.55	Peak
99.84	17.47	2.27	15.92	35.66	43.50	7.84	Peak
298.69	19.48	4.29	12.72	36.49	46.00	9.51	Peak
698.33	24.87	7.08	5.62	37.57	46.00	8.43	Peak
867.11	26.52	7.99	2.36	36.87	46.00	9.13	Peak
992.24	27.76	8.79	0.99	37.54	54.00	16.46	Peak

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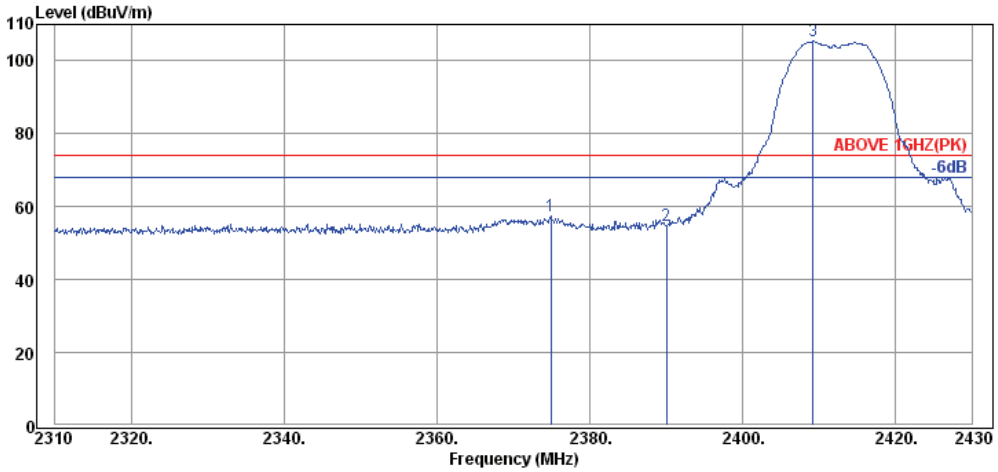
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

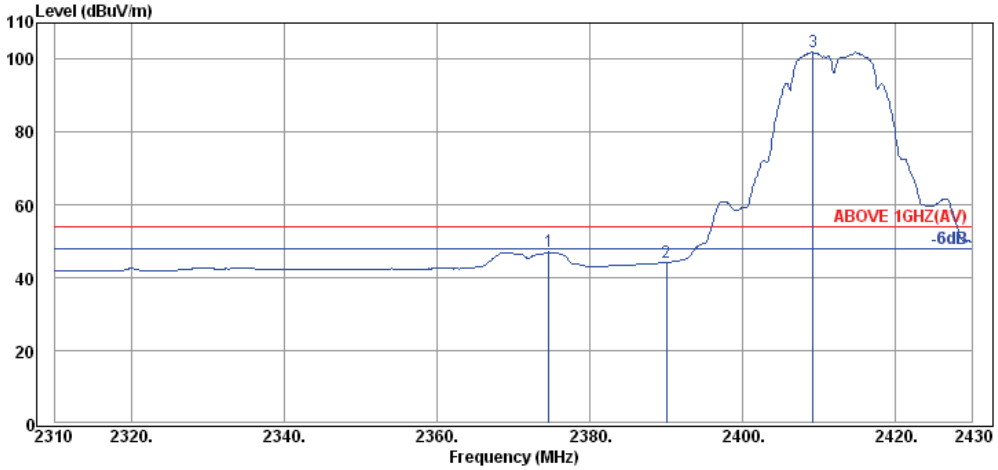
Antenna: PCB Antenna

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
2374.92	32.13	6.06	19.21	57.40	74.00	16.60	Peak
2390.04	32.16	6.08	16.52	54.76	74.00	19.24	Peak
2409.24	32.18	6.10	67.05	105.33	---	---	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
2374.68	32.13	6.06	8.87	47.06	54.00	6.94	Average
2390.04	32.16	6.08	6.02	44.26	54.00	9.74	Average
2409.24	32.18	6.10	63.78	102.06	---	---	Average

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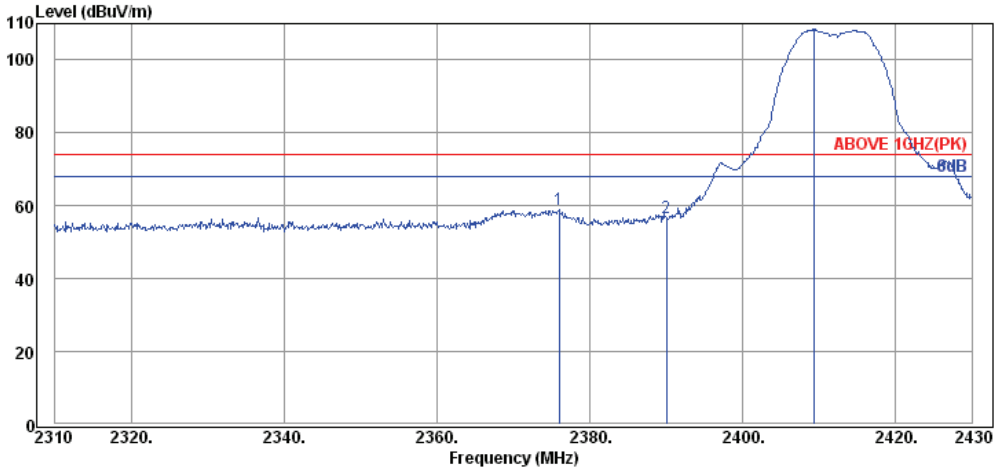
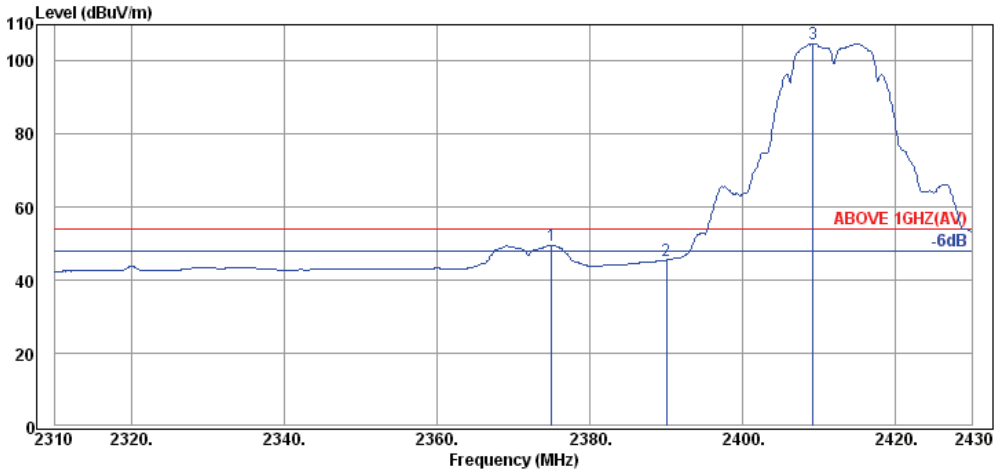
Mode	802.11b	Frequency	TX 2412MHz



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
2376.00	32.13	6.06	20.87	59.06	74.00	14.94	Peak
2390.04	32.16	6.08	18.55	56.79	74.00	17.21	Peak
2409.36	32.18	6.10	70.08	108.36	---	---	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
2375.04	32.13	6.06	11.28	49.47	54.00	4.53	Average
2390.04	32.16	6.08	7.30	45.54	54.00	8.46	Average
2409.24	32.18	6.10	66.60	104.88	---	---	Average

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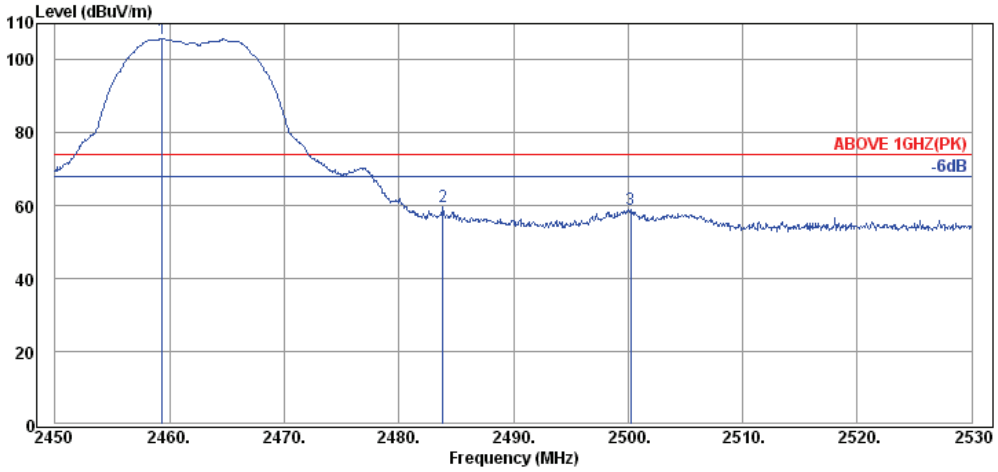
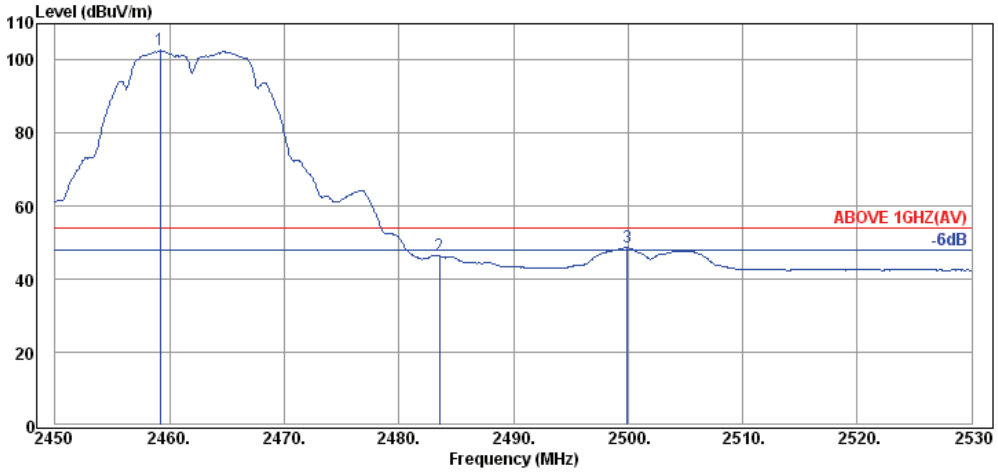
Mode	802.11b	Frequency	TX 2462MHz



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
2459.36	32.25	6.16	67.52	105.93	---	---	Peak
2483.84	32.28	6.19	21.14	59.61	74.00	14.39	Peak
2500.24	32.30	6.21	20.58	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
2459.20	32.25	6.16	64.27	102.68	---	---	Average
2483.52	32.28	6.19	7.94	46.41	54.00	7.59	Average
2499.92	32.30	6.21	10.21	48.72	54.00	5.28	Average

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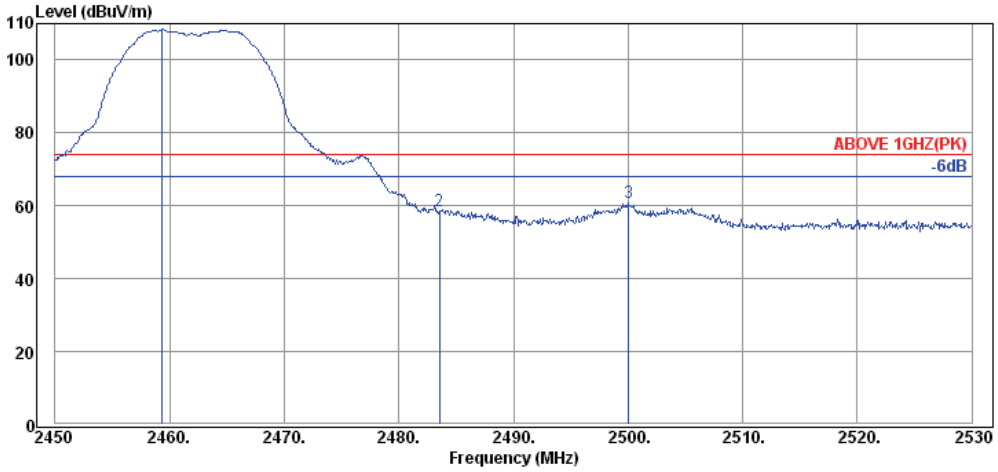
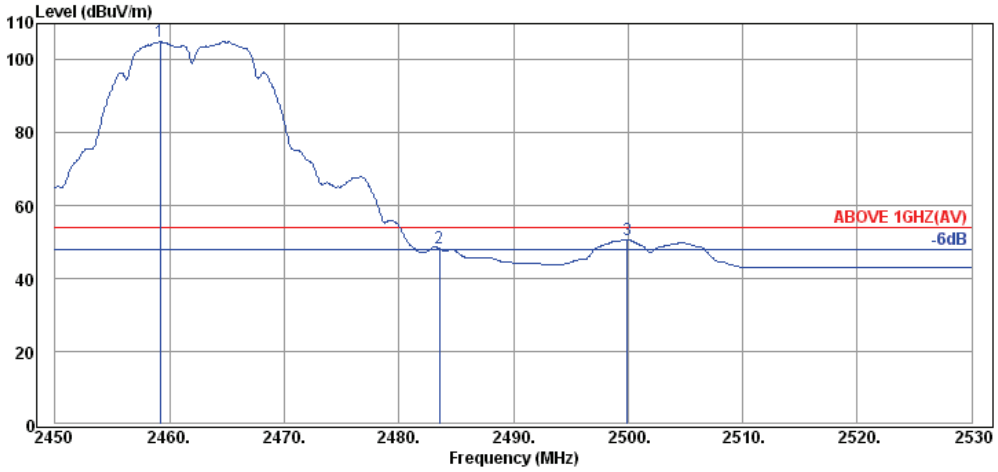
Mode	802.11b	Frequency	TX 2462MHz



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
2459.36	32.25	6.16	69.95	108.36	---	---	Peak
2483.52	32.28	6.19	20.23	58.70	74.00	15.30	Peak
2500.08	32.30	6.21	22.23	60.74	74.00	13.26	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
2459.20	32.25	6.16	66.69	105.10	---	---	Average
2483.52	32.28	6.19	9.88	48.35	54.00	5.65	Average
2499.92	32.30	6.21	12.31	50.82	54.00	3.18	Average

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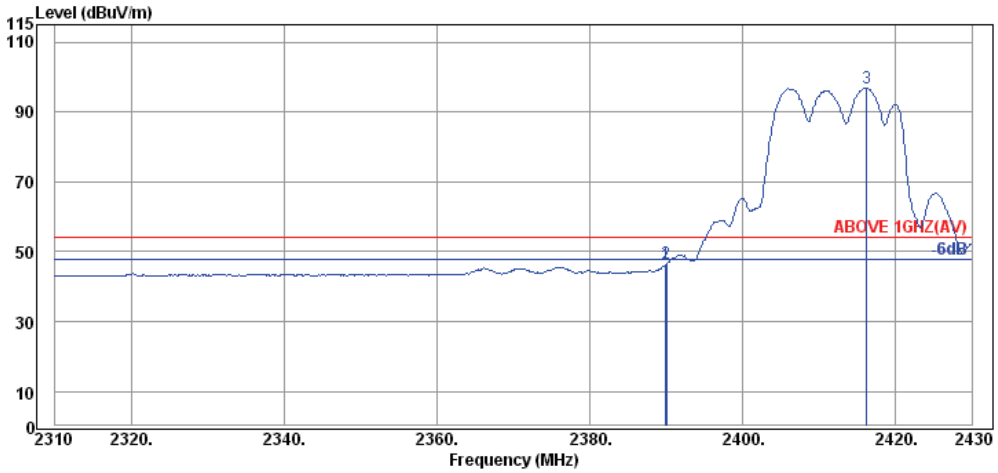
Mode	802.11g	Frequency	TX 2412MHz

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
2389.92	32.16	7.05	22.85	62.06	74.00	11.94	Peak
2390.04	32.16	7.05	23.29	62.50	74.00	11.50	Peak
2416.44	32.18	7.09	66.52	105.79	---	---	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
2389.92	32.16	7.05	7.03	46.24	54.00	7.76	Average
2390.04	32.16	7.05	7.25	46.46	54.00	7.54	Average
2416.20	32.18	7.09	57.60	96.87	---	---	Average

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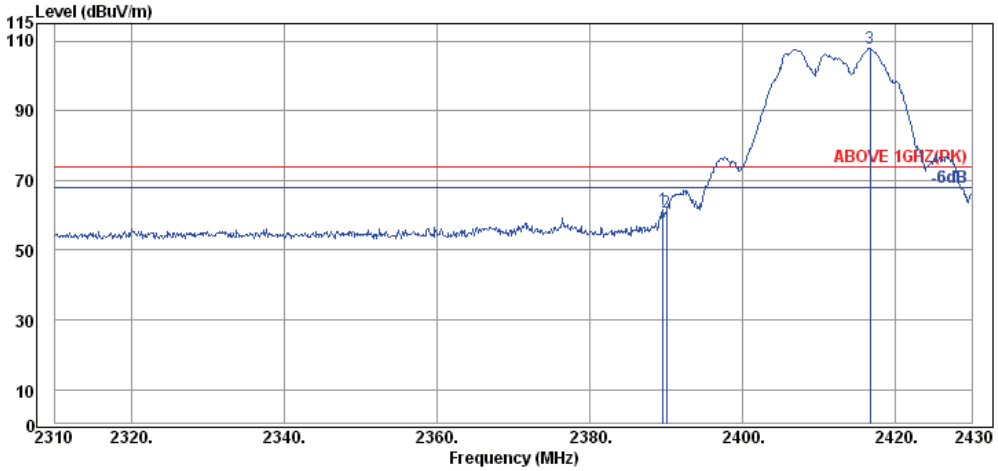
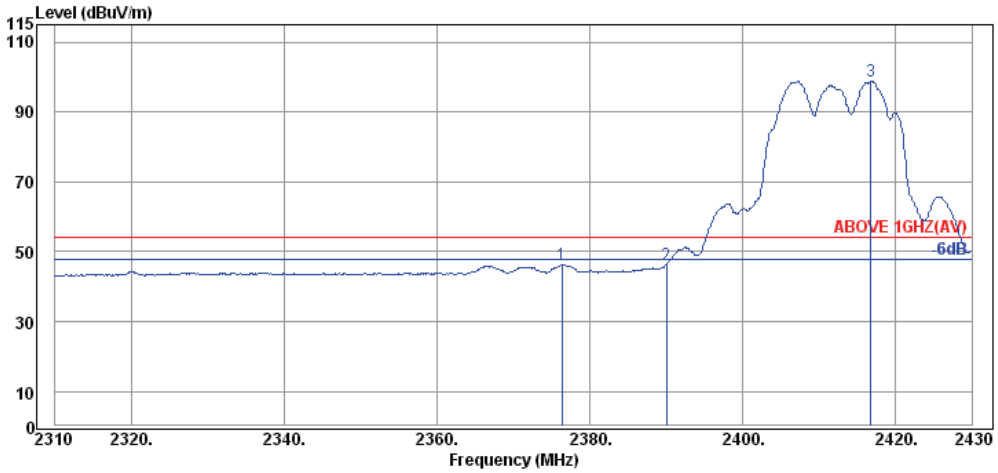
Mode	802.11g	Frequency	TX 2412MHz



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
2389.56	32.16	7.05	22.39	61.60	74.00	12.40	Peak
2390.04	32.16	7.05	21.81	61.02	74.00	12.98	Peak
2416.68	32.18	7.09	68.59	107.86	---	---	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
2376.36	32.13	7.04	7.16	46.33	54.00	7.67	Average
2390.04	32.16	7.05	7.07	46.28	54.00	7.72	Average
2416.80	32.18	7.09	59.53	98.80	---	---	Average

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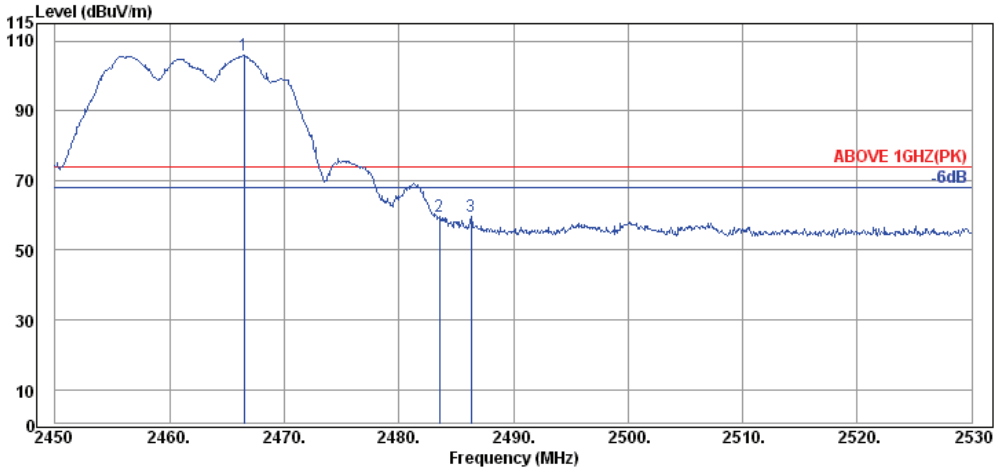
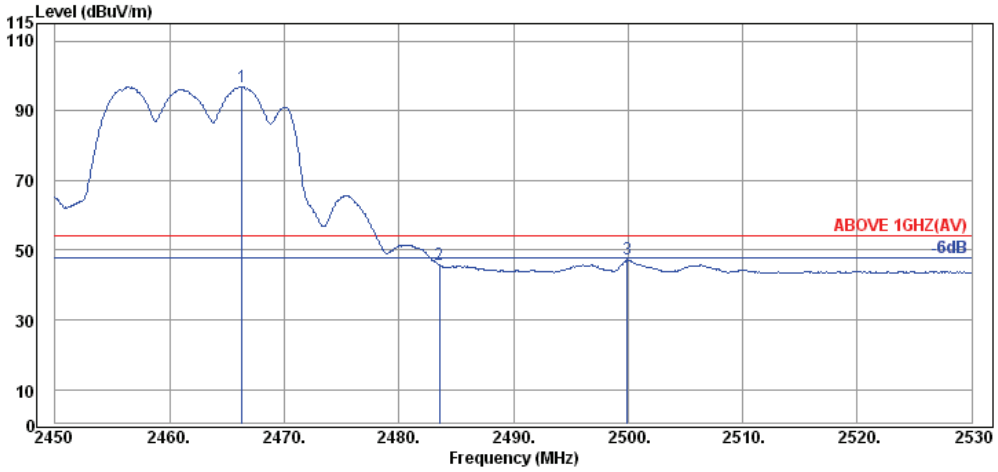
Mode	802.11g	Frequency	TX 2462MHz



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
2466.48	32.25	7.12	66.40	105.77	---	---	Peak
2483.52	32.28	7.13	20.10	59.51	74.00	14.49	Peak
2486.32	32.28	7.13	20.24	59.65	74.00	14.35	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
2466.32	32.25	7.12	57.45	96.82	---	---	Average
2483.52	32.28	7.13	6.24	45.65	54.00	8.35	Average
2499.92	32.30	7.14	7.84	47.28	54.00	6.72	Average

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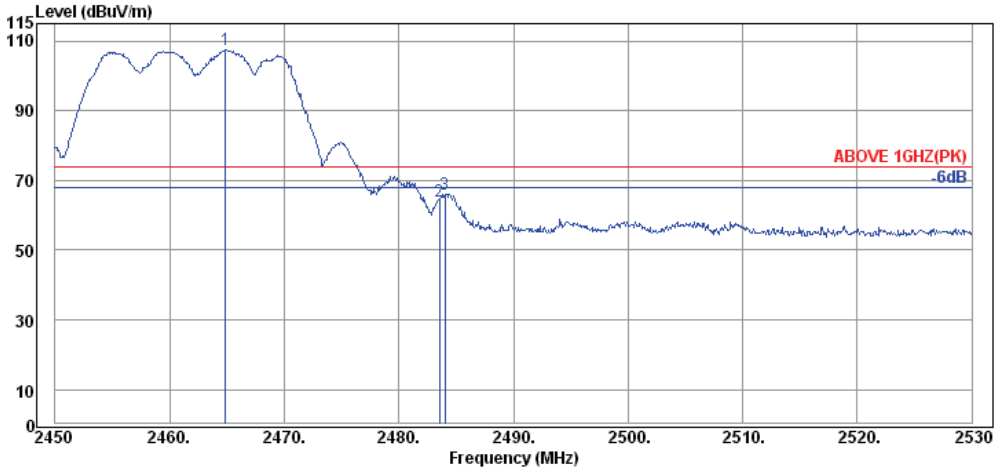
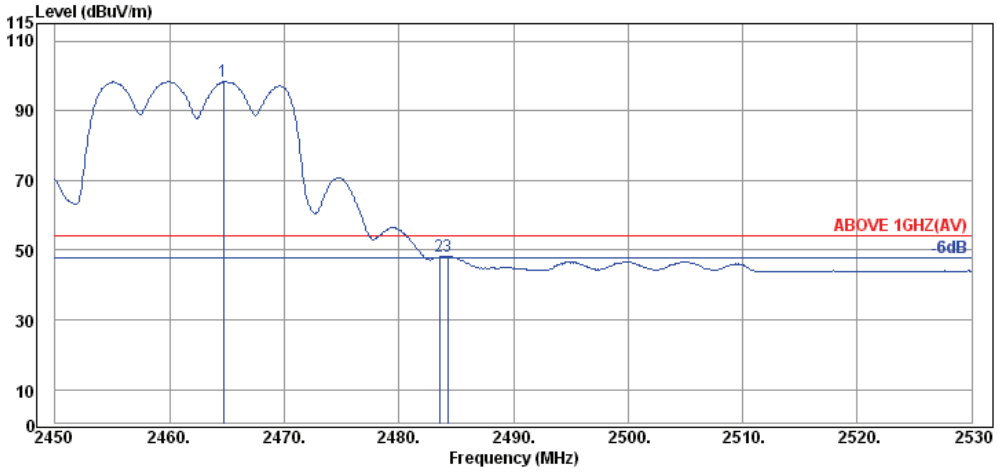
Mode	802.11g	Frequency	TX 2462MHz



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
2464.88	32.25	7.12	68.11	107.48	---	---	Peak
2483.52	32.28	7.13	24.67	64.08	74.00	9.92	Peak
2484.00	32.28	7.13	26.74	66.15	74.00	7.85	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
2464.72	32.25	7.12	59.21	98.58	---	---	Average
2483.52	32.28	7.13	8.79	48.20	54.00	5.80	Average
2484.24	32.28	7.13	8.99	48.40	54.00	5.60	Average

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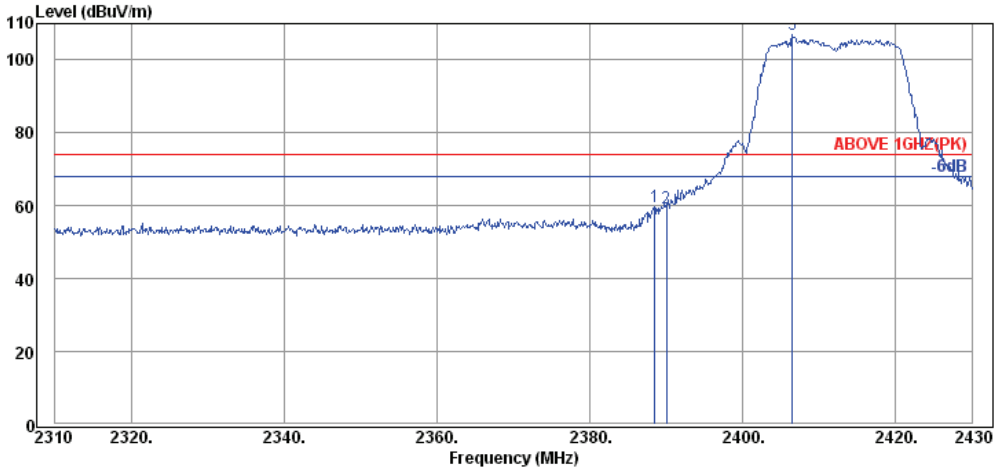
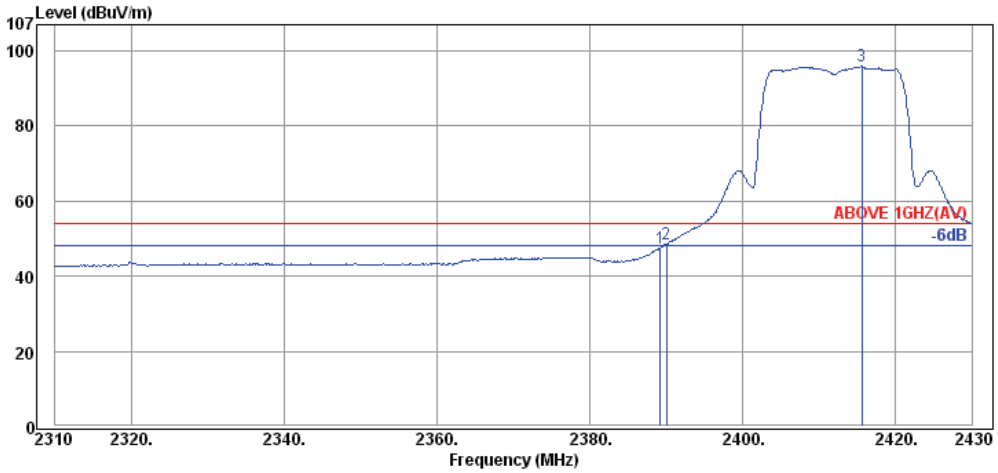
Mode	802.11n-HT20	Frequency	TX 2412MHz



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
2388.48	32.16	6.57	20.83	59.56	74.00	14.44	Peak
2390.04	32.16	6.57	20.80	59.53	74.00	14.47	Peak
2406.48	32.18	6.59	68.14	106.91	---	---	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
2389.20	32.16	6.57	8.72	47.45	54.00	6.55	Average
2390.04	32.16	6.57	9.85	48.58	54.00	5.42	Average
2415.60	32.18	6.59	57.07	95.84	---	---	Average

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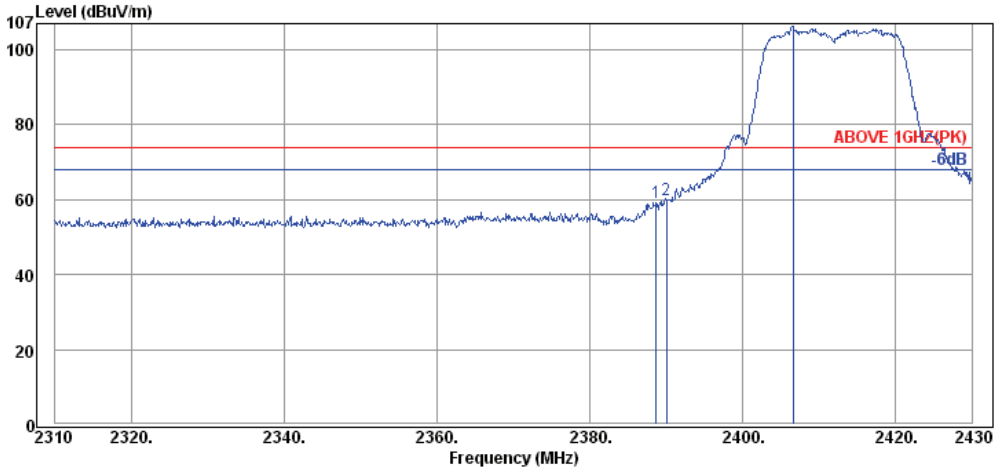
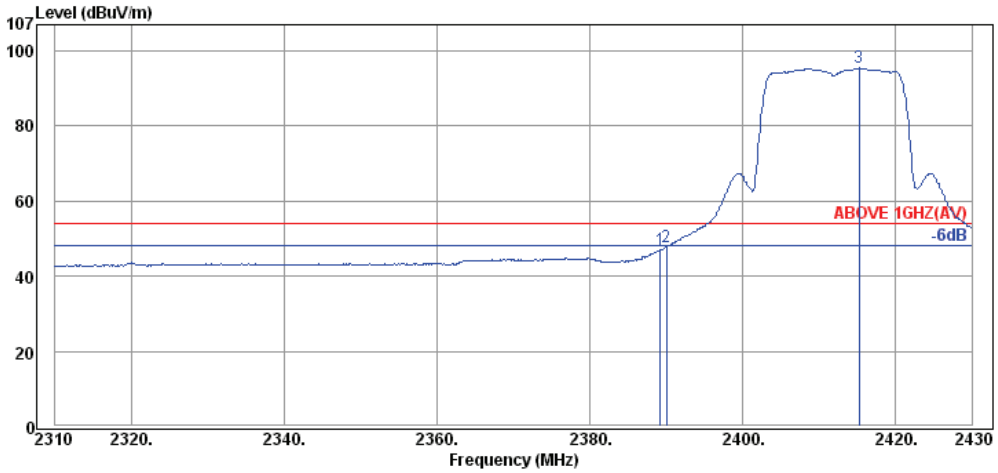
Mode	802.11n-HT20	Frequency	TX 2412MHz



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
2388.72	32.16	6.57	20.42	59.15	74.00	14.85	Peak
2390.04	32.16	6.57	21.27	60.00	74.00	14.00	Peak
2406.60	32.18	6.59	67.51	106.28	---	---	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
2389.20	32.16	6.57	8.31	47.04	54.00	6.96	Average
2390.04	32.16	6.57	9.13	47.86	54.00	6.14	Average
2415.24	32.18	6.59	56.70	95.47	---	---	Average

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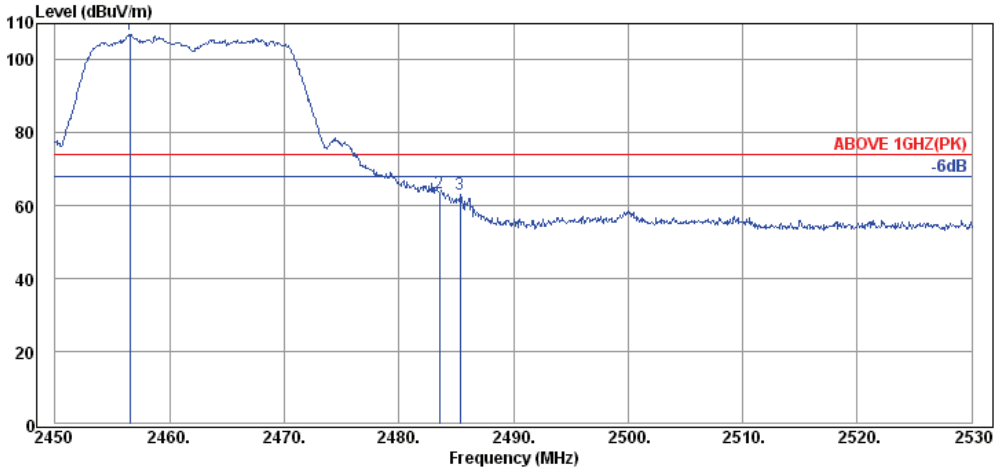
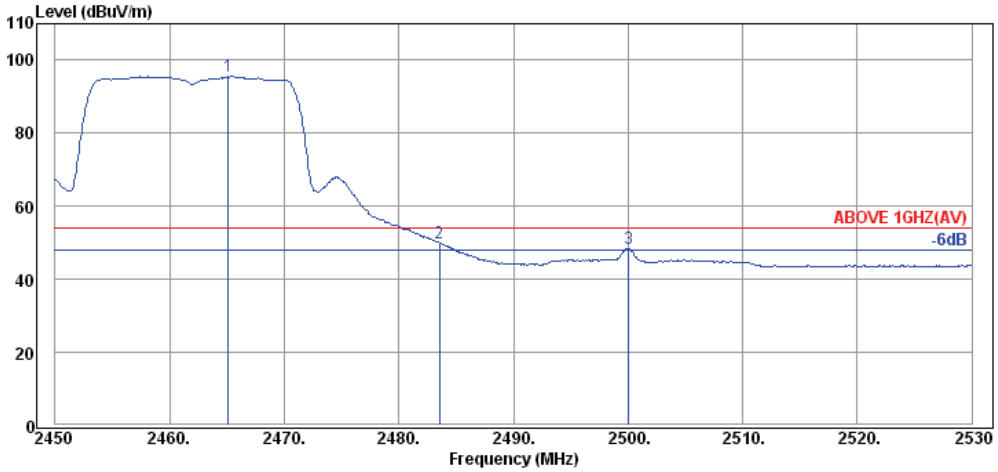
Mode	802.11n-HT20	Frequency	TX 2462MHz



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
2456.56	32.25	6.65	67.98	106.88	---	---	Peak
2483.52	32.28	6.67	24.47	63.42	74.00	10.58	Peak
2485.36	32.28	6.67	24.21	63.16	74.00	10.84	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
2465.12	32.25	6.65	56.63	95.53	---	---	Average
2483.52	32.28	6.67	11.12	50.07	54.00	3.93	Average
2500.08	32.30	6.69	9.43	48.42	54.00	5.58	Average

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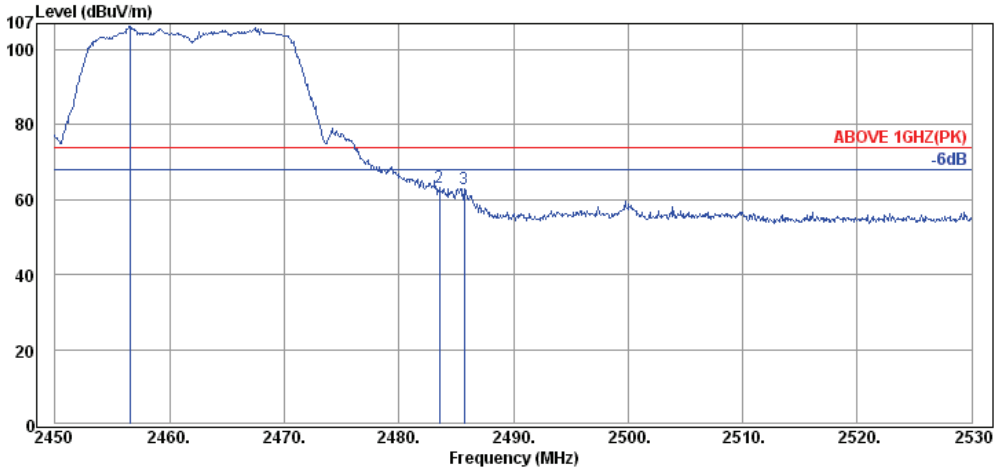
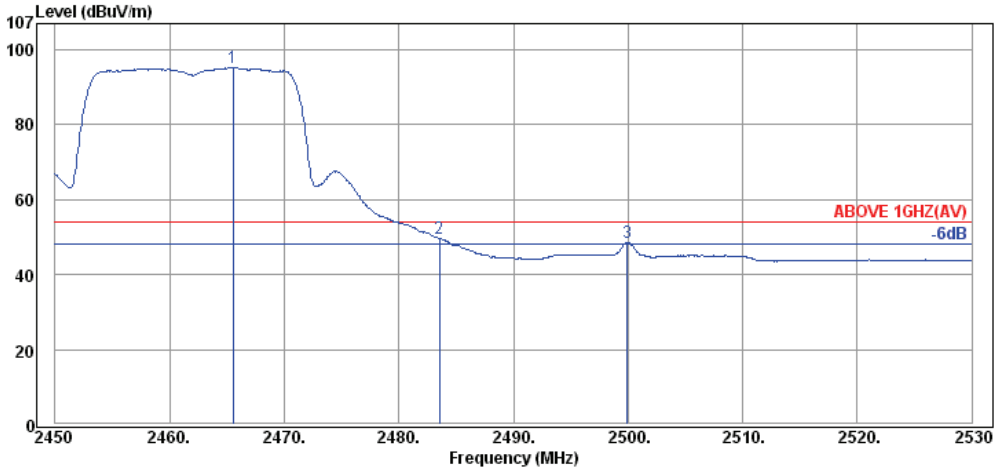
Mode	802.11n-HT20	Frequency	TX 2462MHz



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
2456.56	32.25	6.65	67.24	106.14	---	---	Peak
2483.52	32.28	6.67	24.40	63.35	74.00	10.65	Peak
2485.68	32.28	6.67	24.06	63.01	74.00	10.99	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
2465.52	32.25	6.65	56.46	95.36	---	---	Average
2483.52	32.28	6.67	10.66	49.61	54.00	4.39	Average
2499.92	32.30	6.69	9.64	48.63	54.00	5.37	Average

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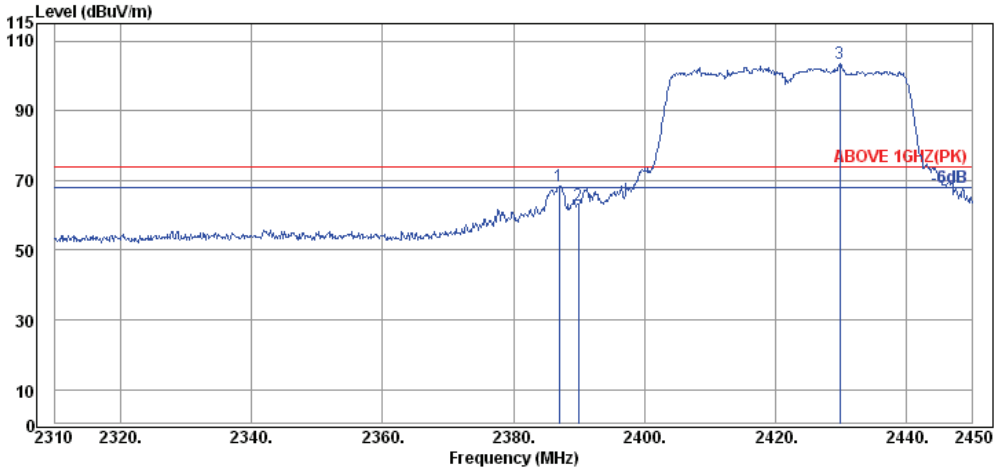
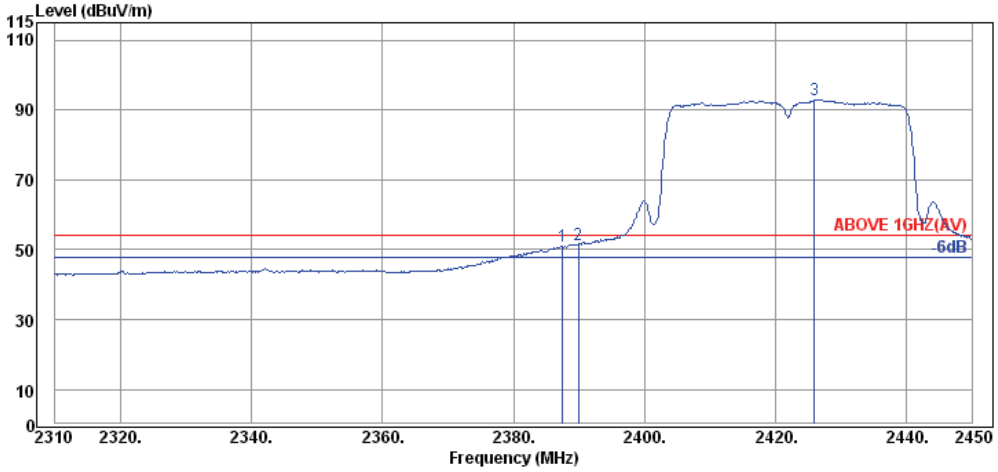
Mode	802.11n-HT40	Frequency	TX 2422MHz



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
2387.00	32.16	6.57	29.66	68.39	74.00	5.61	Peak
2389.94	32.16	6.57	24.01	62.74	74.00	11.26	Peak
2429.84	32.20	6.61	64.65	103.46	---	---	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
2387.56	32.16	6.57	12.16	50.89	54.00	3.11	Average
2389.94	32.16	6.57	12.51	51.24	54.00	2.76	Average
2425.92	32.20	6.61	54.00	92.81	---	---	Average

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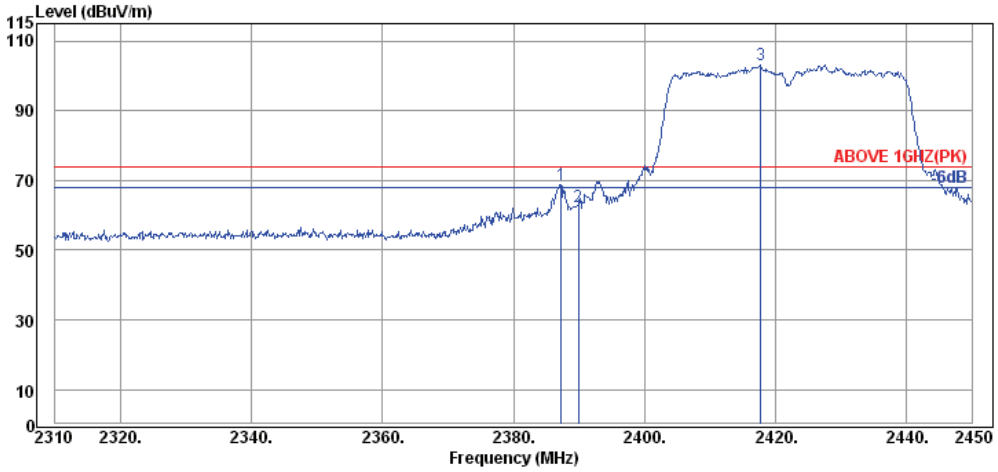
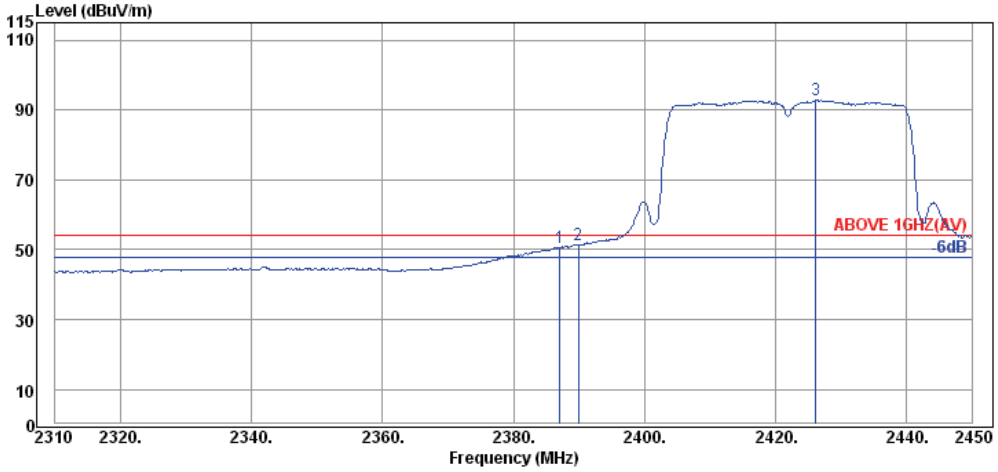
Mode	802.11n-HT40	Frequency	TX 2422MHz



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
2387.28	32.16	6.57	30.18	68.91	74.00	5.09	Peak
2389.94	32.16	6.57	23.81	62.54	74.00	11.46	Peak
2417.80	32.18	6.59	64.56	103.33	---	---	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
2387.14	32.16	6.57	11.94	50.67	54.00	3.33	Average
2389.94	32.16	6.57	12.61	51.34	54.00	2.66	Average
2426.20	32.20	6.61	53.90	92.71	---	---	Average

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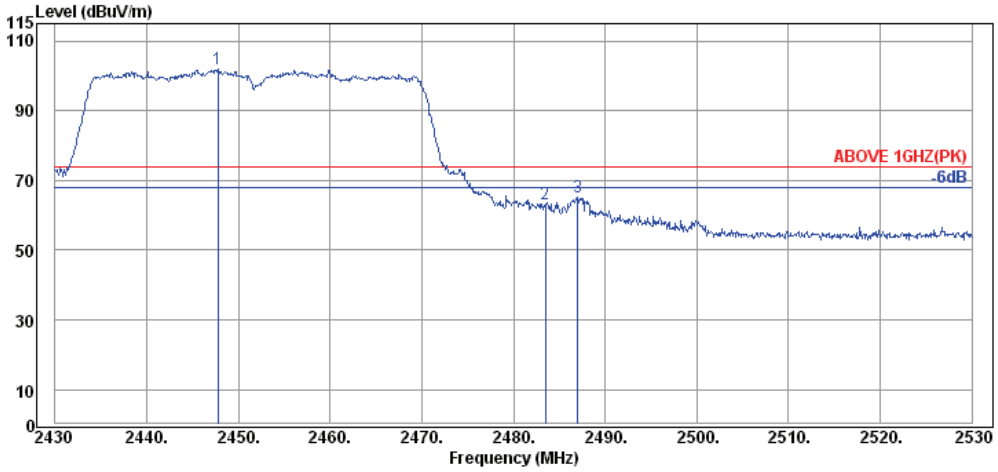
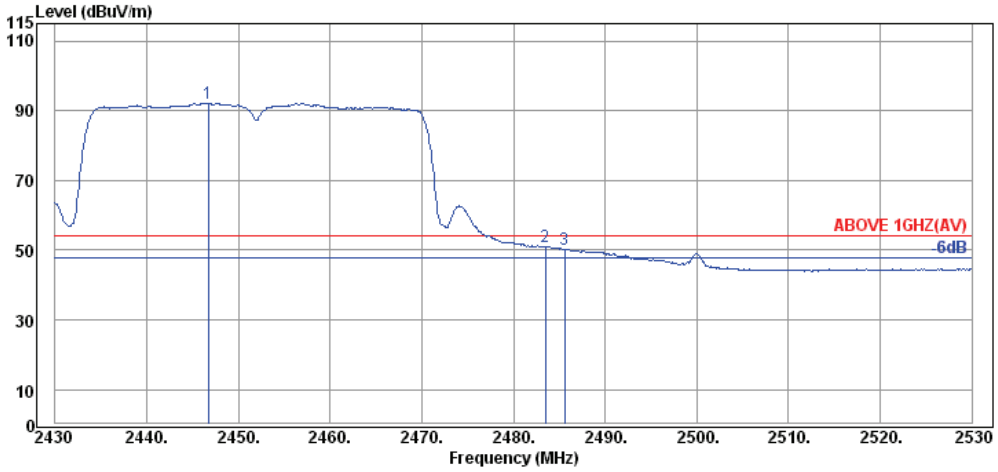
Mode	802.11n-HT40	Frequency	TX 2452MHz



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
2447.80	32.23	6.63	62.96	101.82	---	---	Peak
2483.50	32.28	6.67	24.30	63.25	74.00	10.75	Peak
2487.00	32.28	6.67	26.17	65.12	74.00	8.88	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
2446.70	32.23	6.63	53.35	92.21	---	---	Average
2483.50	32.28	6.67	11.94	50.89	54.00	3.11	Average
2485.60	32.28	6.67	11.42	50.37	54.00	3.63	Average

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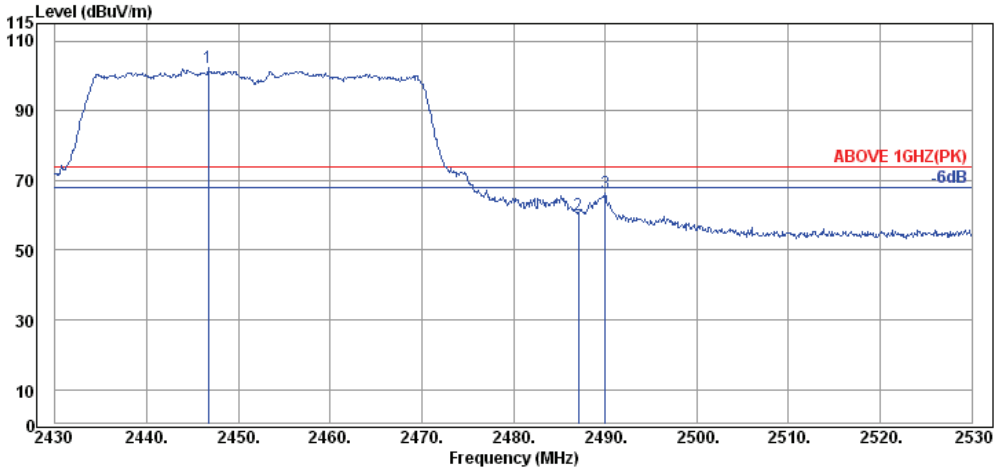
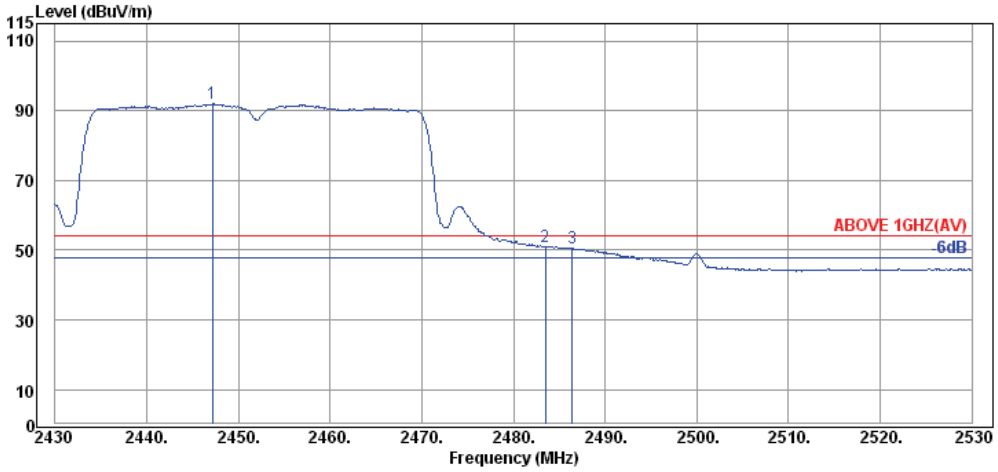
Mode	802.11n-HT40	Frequency	TX 2452MHz



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
2446.70	32.23	6.63	63.42	102.28	---	---	Peak
2487.10	32.28	6.67	21.17	60.12	74.00	13.88	Peak
2490.00	32.30	6.69	27.34	66.33	74.00	7.67	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
2447.20	32.23	6.63	53.04	91.90	---	---	Average
2483.50	32.28	6.67	12.07	51.02	54.00	2.98	Average
2486.40	32.28	6.67	11.70	50.65	54.00	3.35	Average

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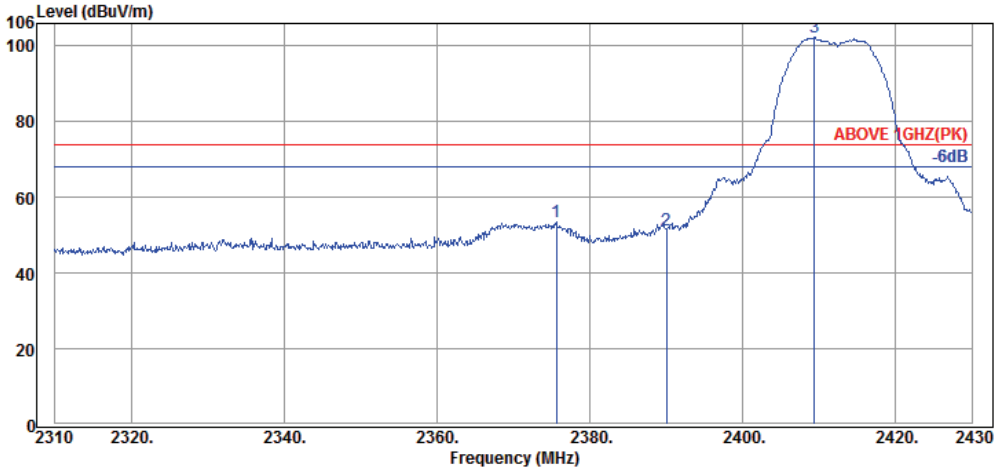
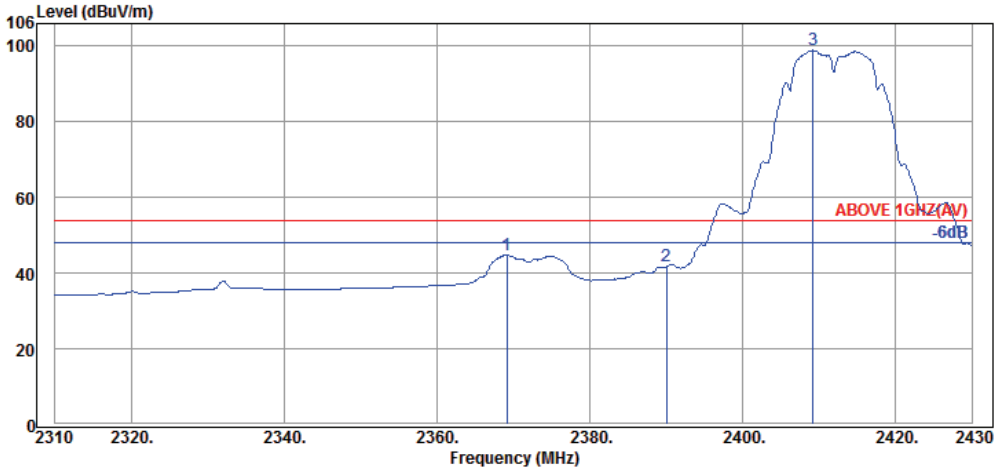
Antenna: Omni-s Antenna

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
2375.64	32.13	6.55	14.71	53.39	74.00	20.61	Peak
2390.04	32.16	6.57	12.62	51.35	74.00	22.65	Peak
2409.36	32.18	6.59	63.45	102.22	---	---	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
2369.16	32.13	6.55	6.18	44.86	54.00	9.14	Average
2390.04	32.16	6.57	3.00	41.73	54.00	12.27	Average
2409.24	32.18	6.59	60.15	98.92	---	---	Average

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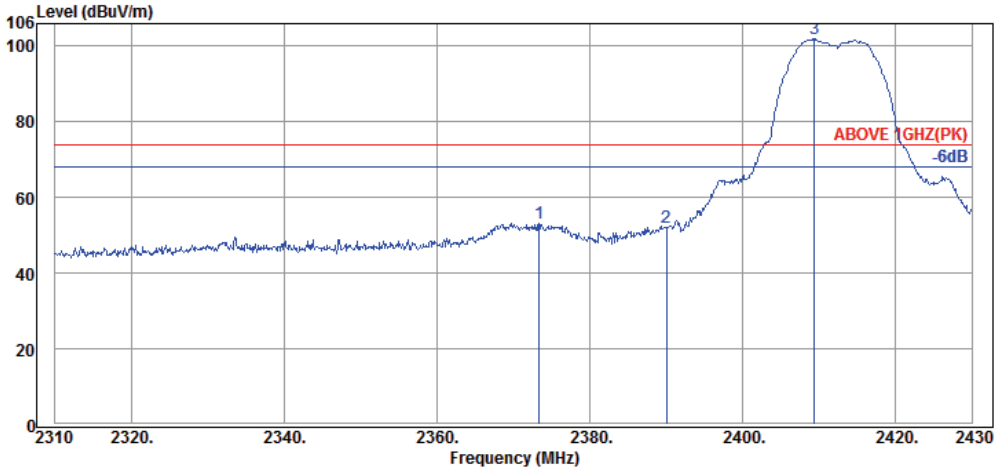
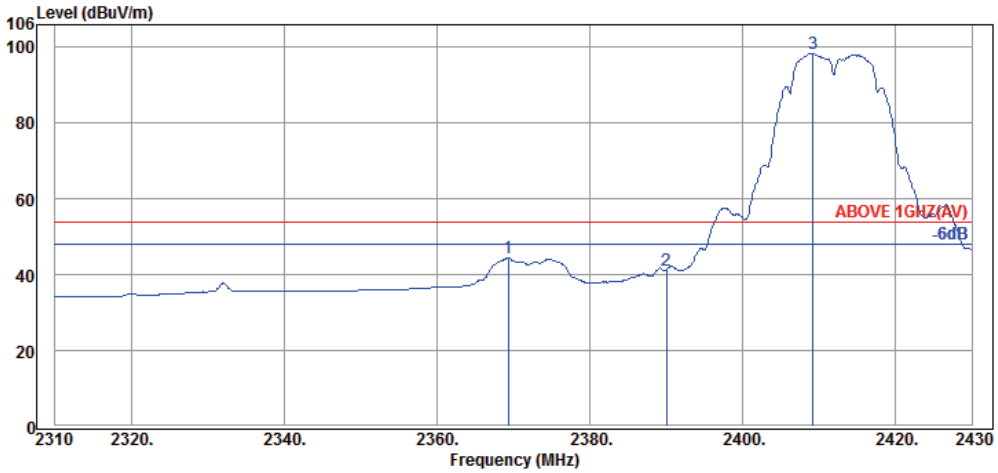
Mode	802.11b	Frequency	TX 2412MHz



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
2373.36	32.13	6.55	14.56	53.24	74.00	20.76	Peak
2390.04	32.16	6.57	13.48	52.21	74.00	21.79	Peak
2409.36	32.18	6.59	63.22	101.99	---	---	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
2369.28	32.13	6.55	5.74	44.42	54.00	9.58	Average
2390.04	32.16	6.57	2.57	41.30	54.00	12.70	Average
2409.24	32.18	6.59	59.61	98.38	---	---	Average

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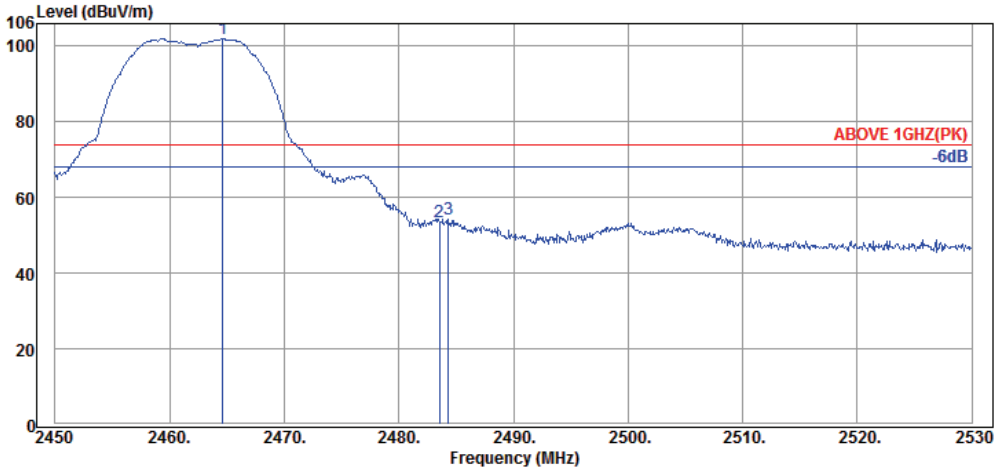
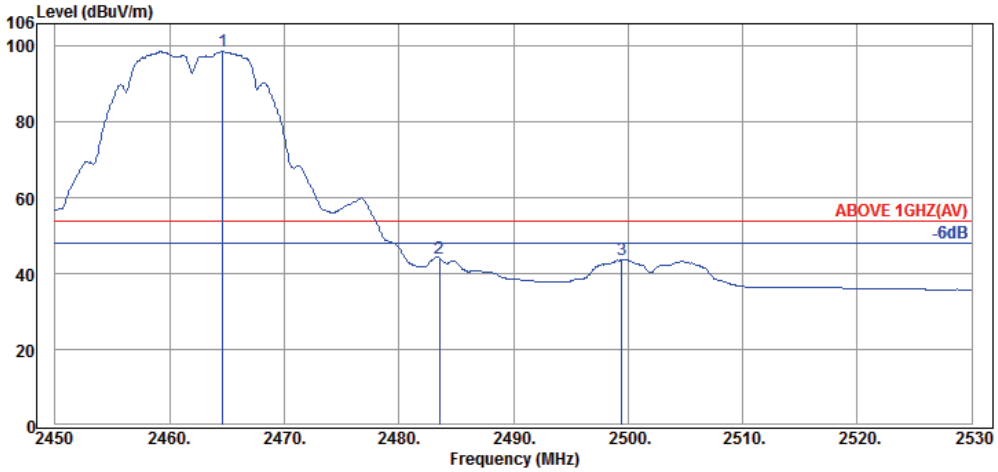
Mode	802.11b	Frequency	TX 2462MHz



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
2464.64	32.25	6.65	63.10	102.00	---	---	Peak
2483.52	32.28	6.67	14.69	53.64	74.00	20.36	Peak
2484.32	32.28	6.67	15.45	54.40	74.00	19.60	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
2464.64	32.25	6.65	59.89	98.79	---	---	Average
2483.52	32.28	6.67	5.15	44.10	54.00	9.90	Average
2499.44	32.30	6.69	4.63	43.62	54.00	10.38	Average

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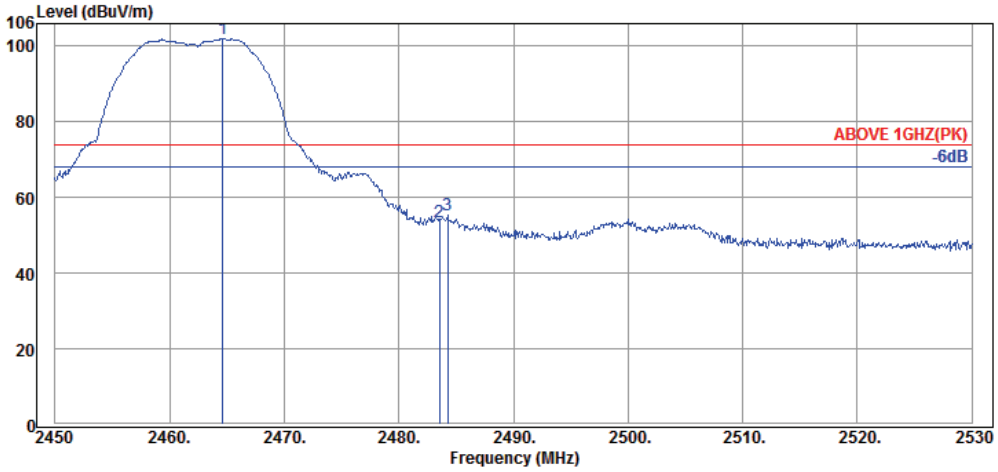
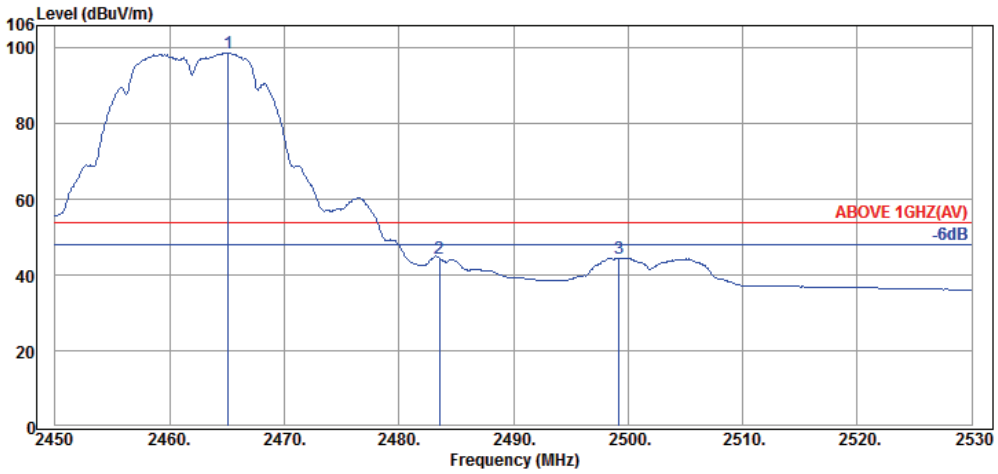
Mode	802.11b	Frequency	TX 2462MHz



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
2464.64	32.25	6.65	63.25	102.15	---	---	Peak
2483.52	32.28	6.67	14.72	53.67	74.00	20.33	Peak
2484.24	32.28	6.67	16.53	55.48	74.00	18.52	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
2465.12	32.25	6.65	59.94	98.84	---	---	Average
2483.52	32.28	6.67	5.57	44.52	54.00	9.48	Average
2499.20	32.30	6.69	5.60	44.59	54.00	9.41	Average

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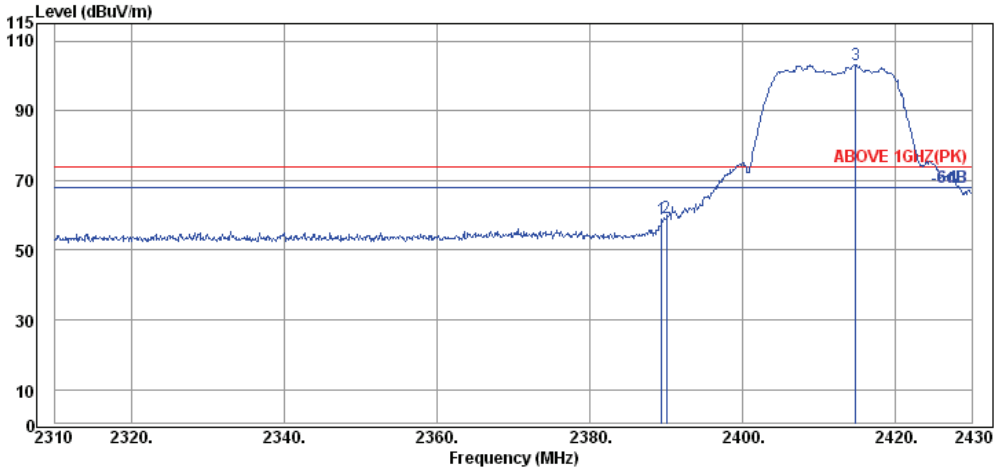
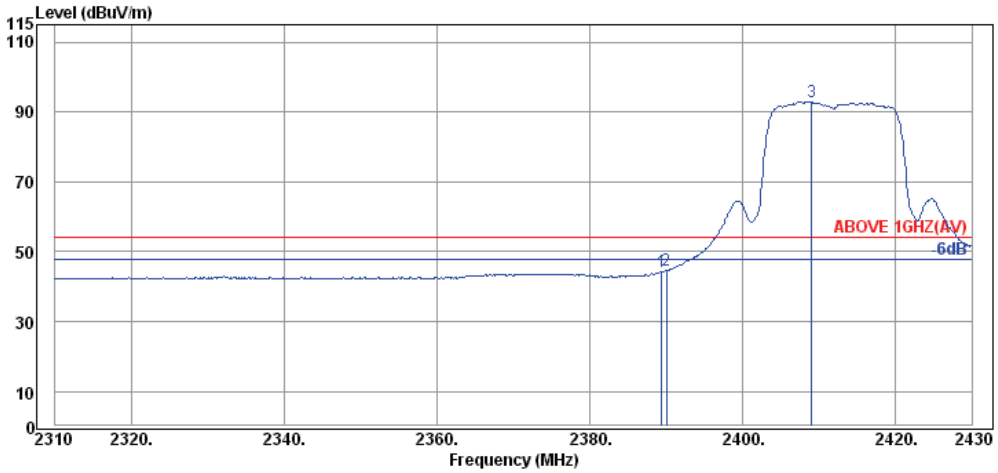
Mode	802.11g	Frequency	TX 2412MHz



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
2389.44	32.16	6.57	19.99	58.72	74.00	15.28	Peak
2390.04	32.16	6.57	20.40	59.13	74.00	14.87	Peak
2414.76	32.18	6.59	64.49	103.26	---	---	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
2389.44	32.16	6.57	5.68	44.41	54.00	9.59	Average
2390.04	32.16	6.57	5.99	44.72	54.00	9.28	Average
2409.00	32.18	6.59	54.16	92.93	---	---	Average

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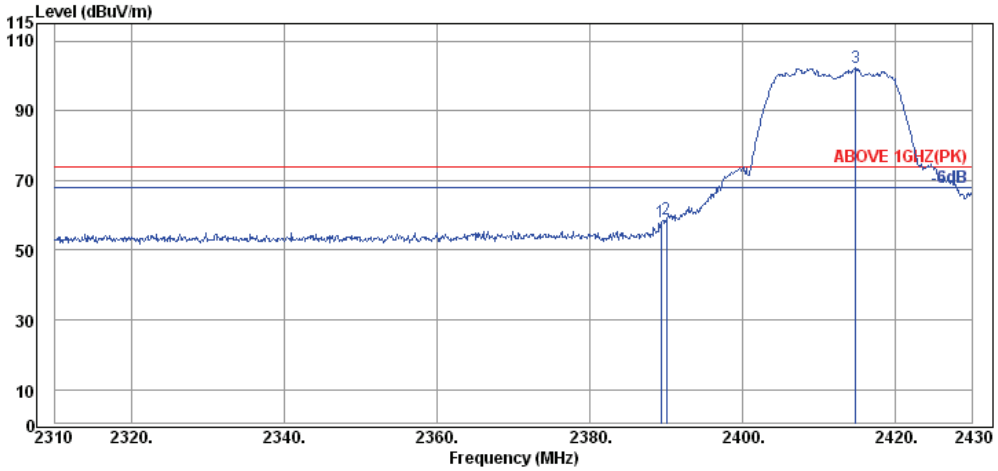
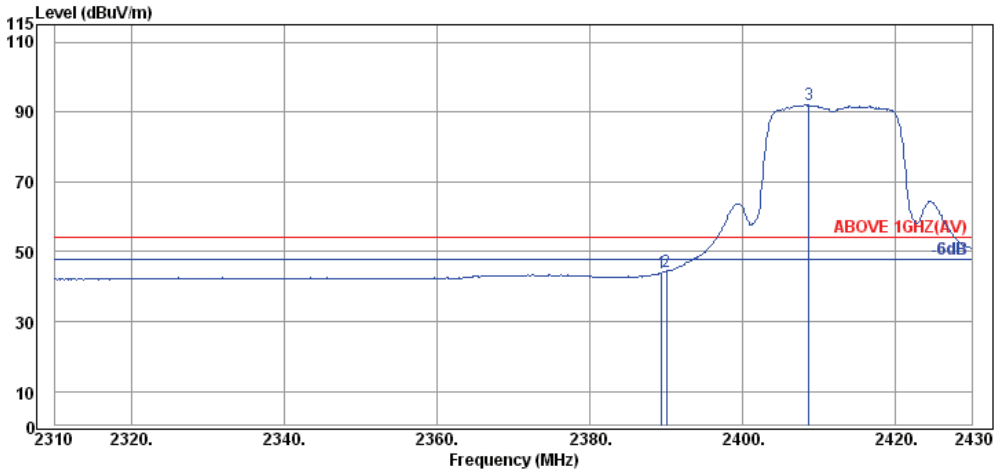
Mode	802.11g	Frequency	TX 2412MHz



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
2389.32	32.16	6.57	19.33	58.06	74.00	15.94	Peak
2390.04	32.16	6.57	20.32	59.05	74.00	14.95	Peak
2414.76	32.18	6.59	63.49	102.26	---	---	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
2389.44	32.16	6.57	5.20	43.93	54.00	10.07	Average
2390.04	32.16	6.57	5.58	44.31	54.00	9.69	Average
2408.64	32.18	6.59	53.22	91.99	---	---	Average

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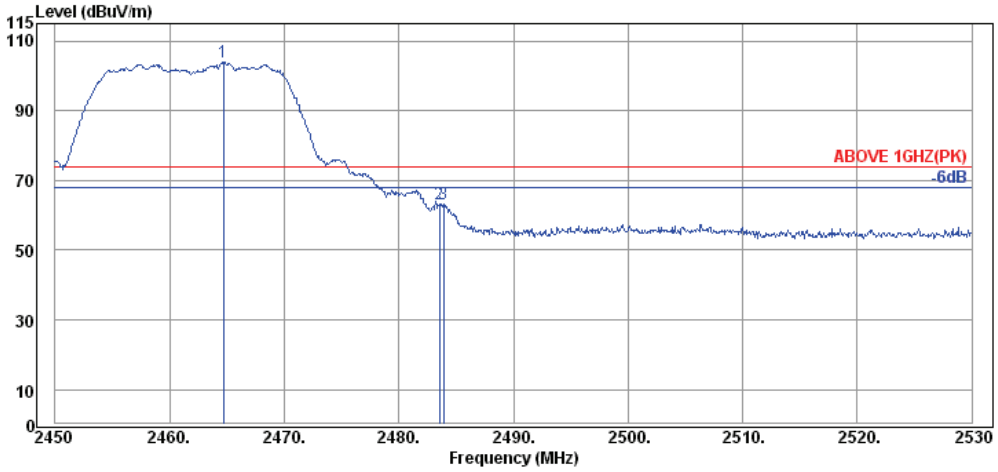
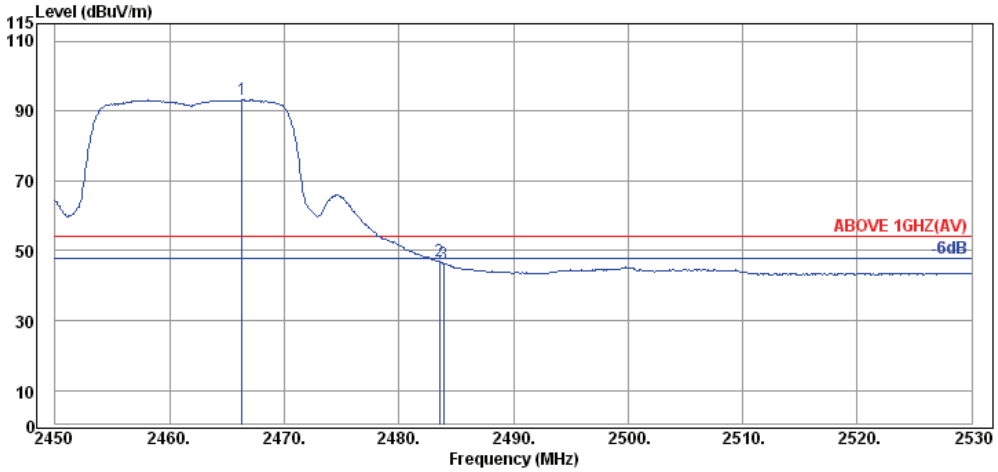
Mode	802.11g	Frequency	TX 2462MHz



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
2464.72	32.25	6.65	64.89	103.79	---	---	Peak
2483.52	32.28	6.67	24.18	63.13	74.00	10.87	Peak
2483.92	32.28	6.67	24.16	63.11	74.00	10.89	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
2466.32	32.25	6.65	54.38	93.28	---	---	Average
2483.52	32.28	6.67	7.93	46.88	54.00	7.12	Average
2483.92	32.28	6.67	7.29	46.24	54.00	7.76	Average

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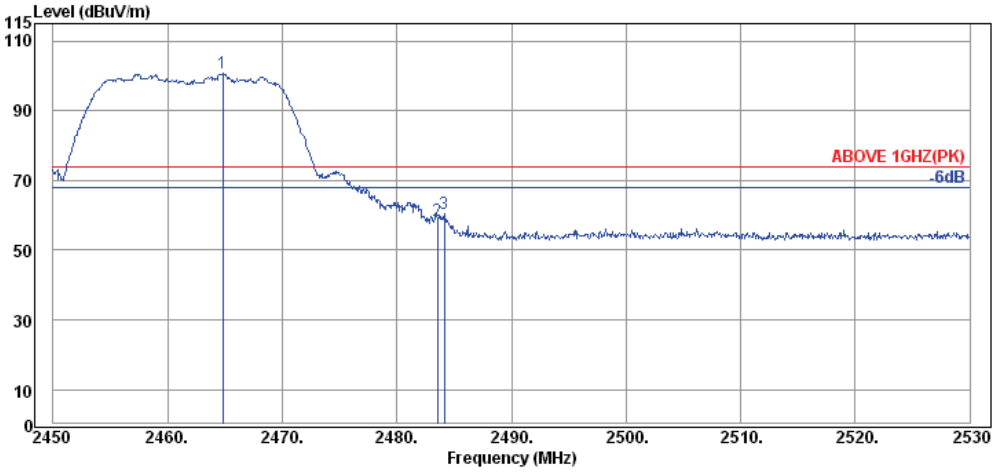
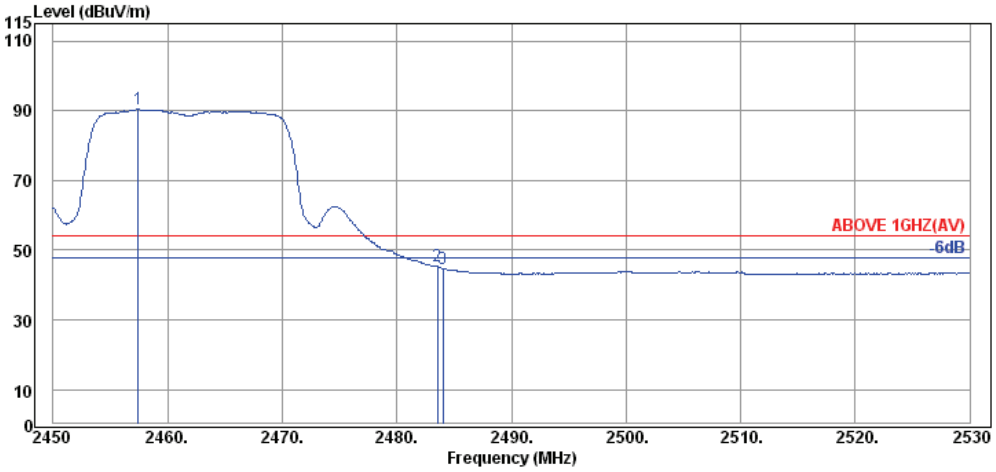
Mode	802.11g	Frequency	TX 2462MHz



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
2464.80	32.25	6.65	61.77	100.67	---	---	Peak
2483.52	32.28	6.67	19.56	58.51	74.00	15.49	Peak
2484.16	32.28	6.67	21.35	60.30	74.00	13.70	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
2457.44	32.25	6.65	51.46	90.36	---	---	Average
2483.52	32.28	6.67	6.38	45.33	54.00	8.67	Average
2484.00	32.28	6.67	5.82	44.77	54.00	9.23	Average

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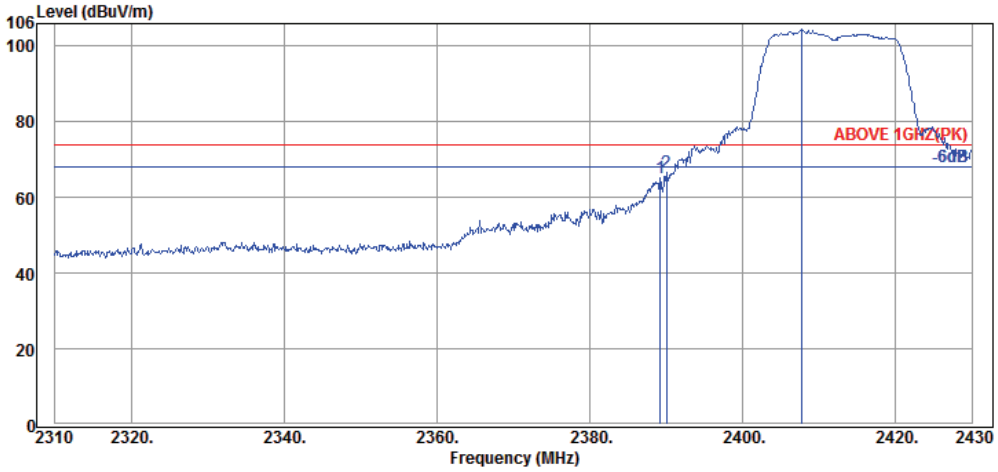
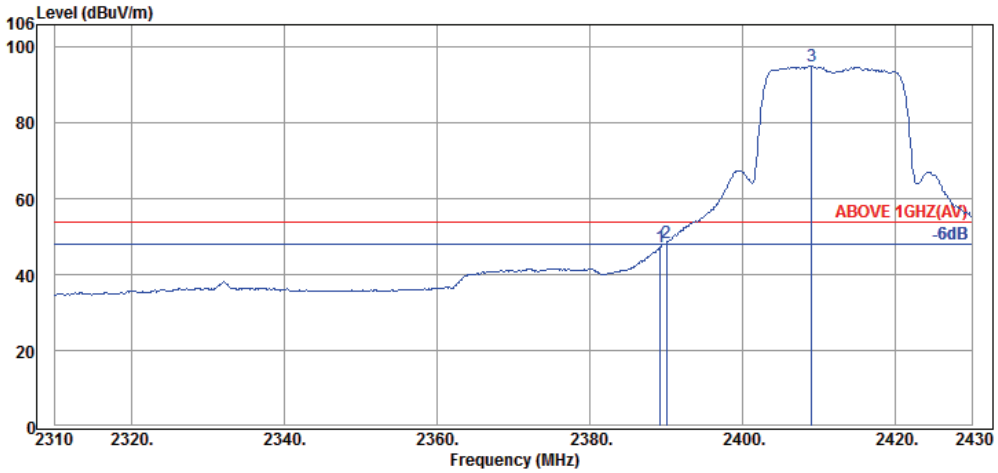
Mode	802.11n-HT20	Frequency	TX 2412MHz



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
2389.20	32.16	6.57	26.48	65.21	74.00	8.79	Peak
2390.04	32.16	6.57	27.79	66.52	74.00	7.48	Peak
2407.68	32.18	6.59	65.82	104.59	---	---	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
2389.20	32.16	6.57	8.45	47.18	54.00	6.82	Average
2390.04	32.16	6.57	9.73	48.46	54.00	5.54	Average
2409.00	32.18	6.59	56.37	95.14	---	---	Average

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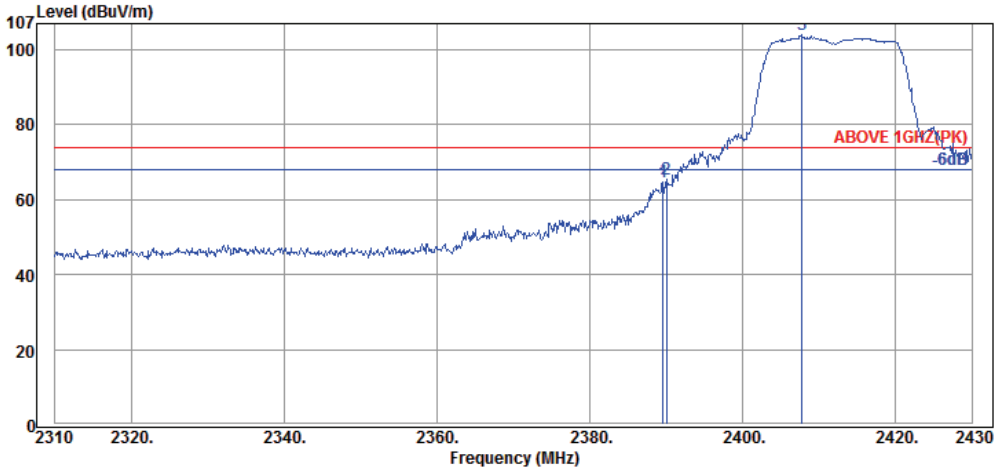
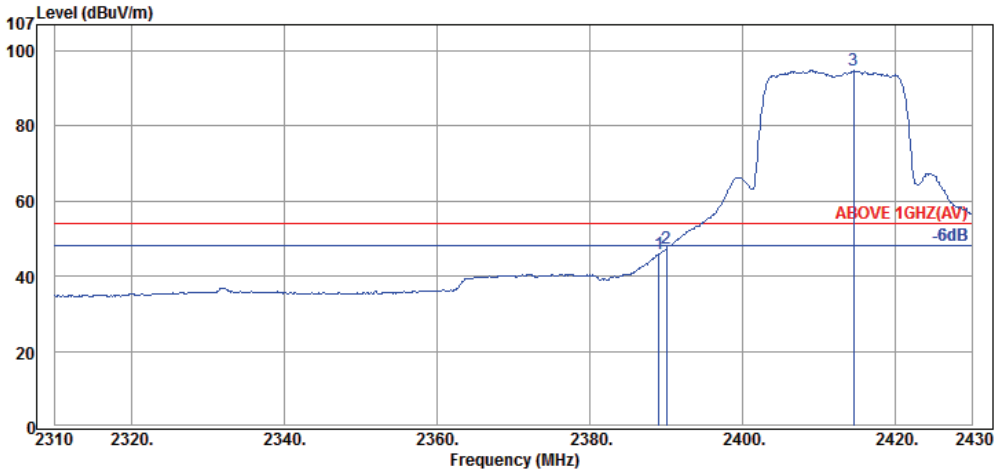
Mode	802.11n-HT20	Frequency	TX 2412MHz



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
2389.56	32.16	6.57	26.04	64.77	74.00	9.23	Peak
2390.04	32.16	6.57	26.73	65.46	74.00	8.54	Peak
2407.80	32.18	6.59	65.34	104.11	---	---	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
2389.08	32.16	6.57	7.29	46.02	54.00	7.98	Average
2390.04	32.16	6.57	8.81	47.54	54.00	6.46	Average
2414.52	32.18	6.59	56.03	94.80	---	---	Average

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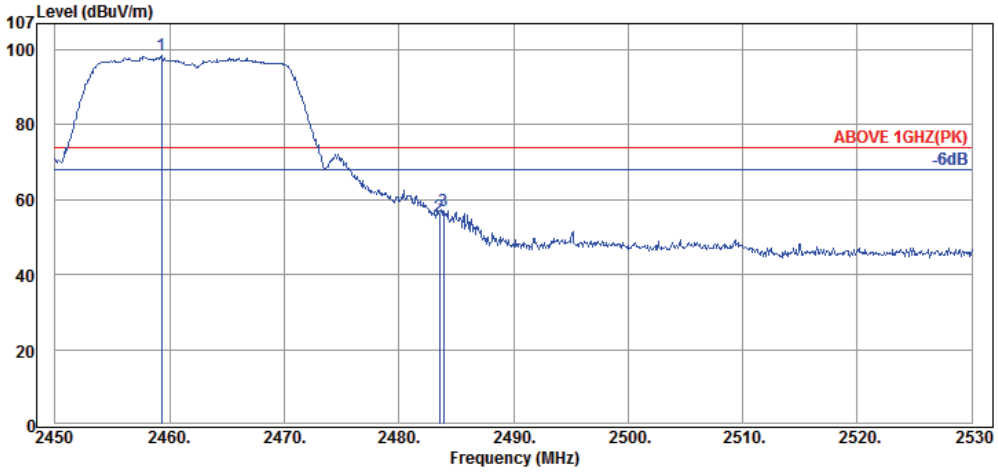
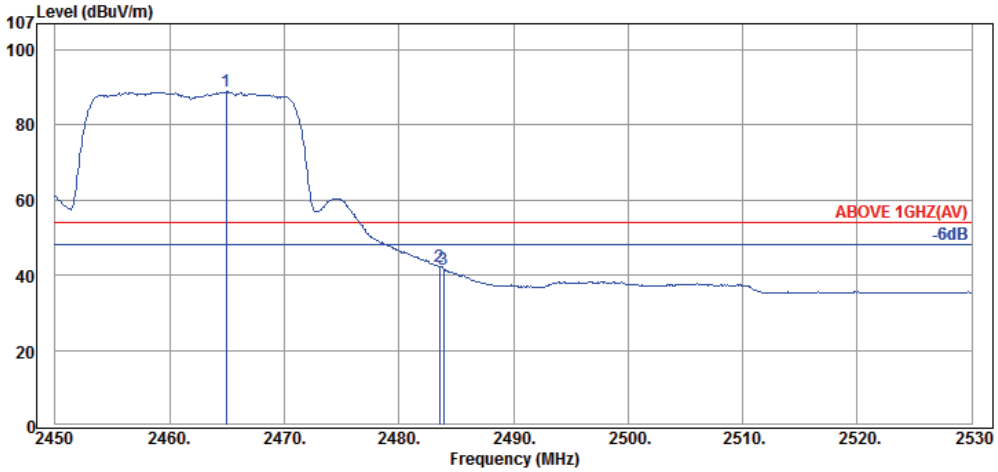
Mode	802.11n-HT20	Frequency	TX 2462MHz



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
2459.28	32.25	6.65	59.72	98.62	---	---	Peak
2483.52	32.28	6.67	16.64	55.59	74.00	18.41	Peak
2483.92	32.28	6.67	18.10	57.05	74.00	16.95	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
2464.96	32.25	6.65	49.96	88.86	---	---	Average
2483.52	32.28	6.67	3.22	42.17	54.00	11.83	Average
2483.92	32.28	6.67	2.70	41.65	54.00	12.35	Average

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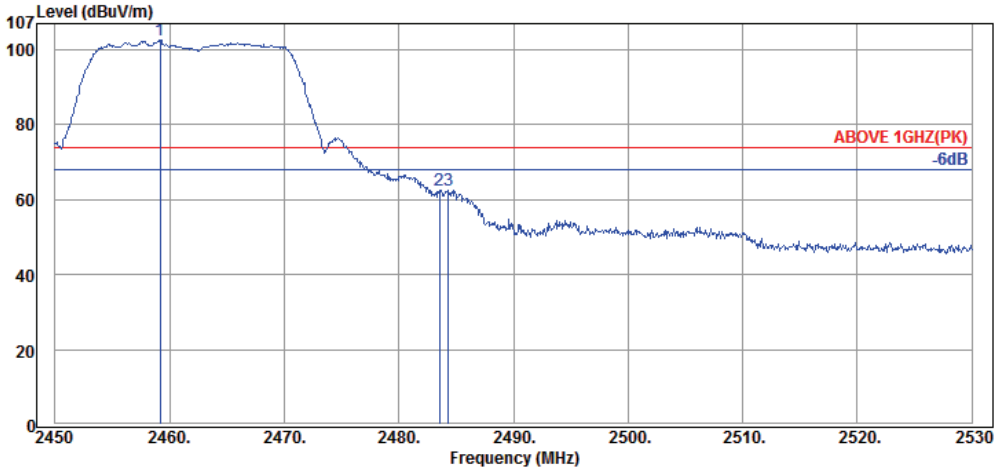
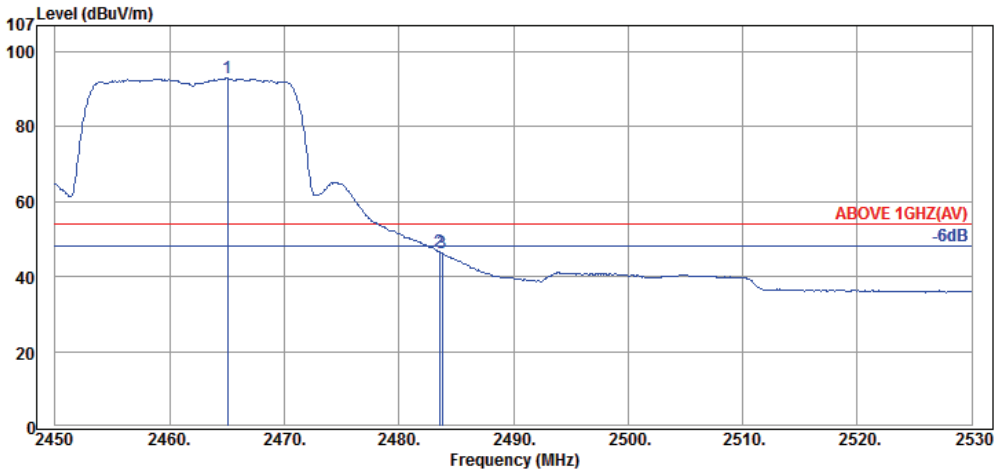
Mode	802.11n-HT20	Frequency	TX 2462MHz



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
2459.20	32.25	6.65	63.80	102.70	---	---	Peak
2483.52	32.28	6.67	23.50	62.45	74.00	11.55	Peak
2484.32	32.28	6.67	23.53	62.48	74.00	11.52	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
2465.04	32.25	6.65	54.14	93.04	---	---	Average
2483.52	32.28	6.67	7.80	46.75	54.00	7.25	Average
2483.76	32.28	6.67	7.34	46.29	54.00	7.71	Average

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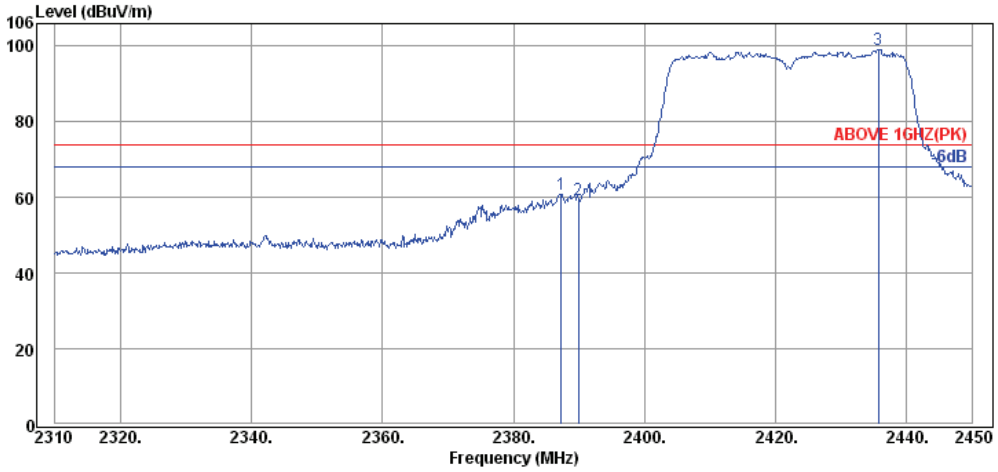
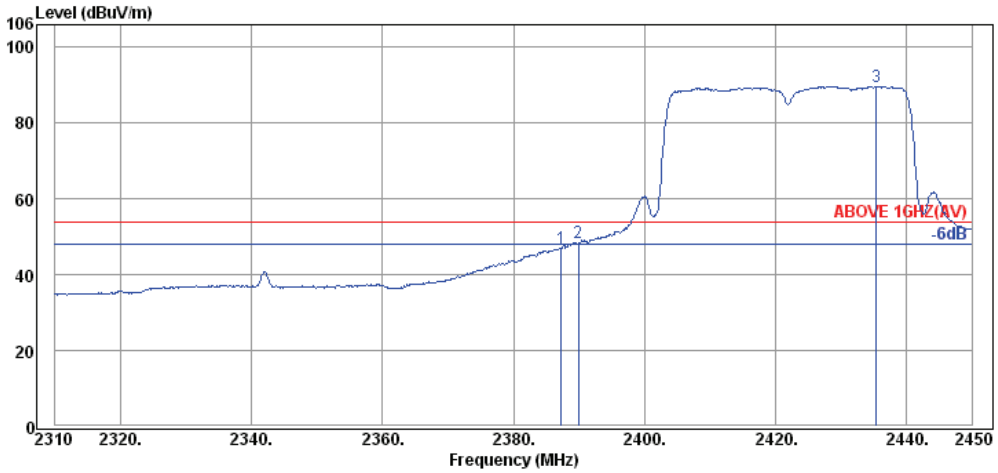
Mode	802.11n-HT40	Frequency	TX 2422MHz



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
2387.28	32.16	6.57	22.23	60.96	74.00	13.04	Peak
2389.94	32.16	6.57	20.74	59.47	74.00	14.53	Peak
2435.72	32.20	6.61	60.36	99.17	---	---	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
2387.28	32.16	6.57	8.38	47.11	54.00	6.89	Average
2389.94	32.16	6.57	9.59	48.32	54.00	5.68	Average
2435.44	32.20	6.61	50.90	89.71	---	---	Average

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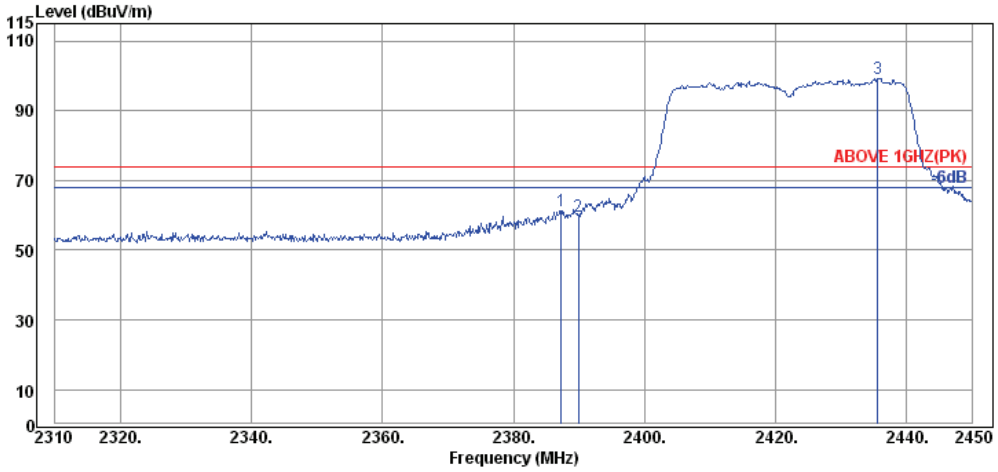
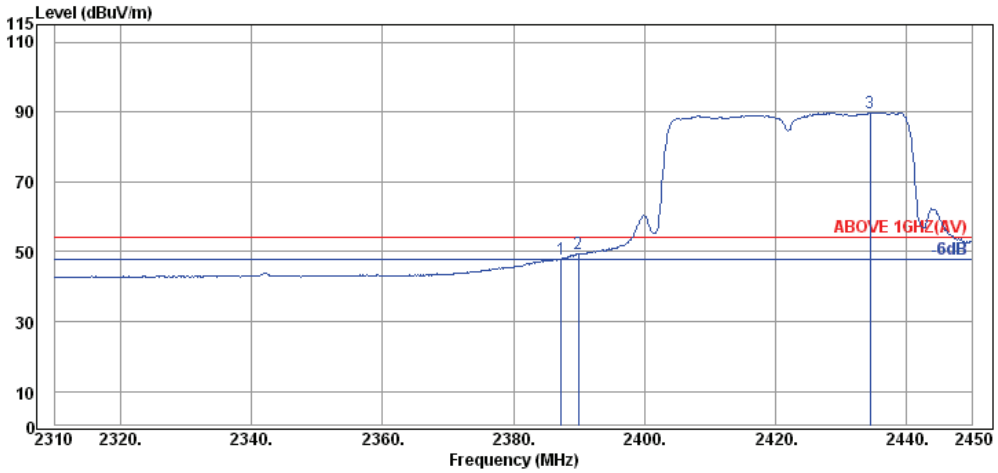
Mode	802.11n-HT40	Frequency	TX 2422MHz



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
2387.28	32.16	6.57	22.49	61.22	74.00	12.78	Peak
2389.94	32.16	6.57	20.83	59.56	74.00	14.44	Peak
2435.58	32.20	6.61	60.53	99.34	---	---	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
2387.28	32.16	6.57	9.23	47.96	54.00	6.04	Average
2389.94	32.16	6.57	10.53	49.26	54.00	4.74	Average
2434.46	32.20	6.61	51.09	89.90	---	---	Average

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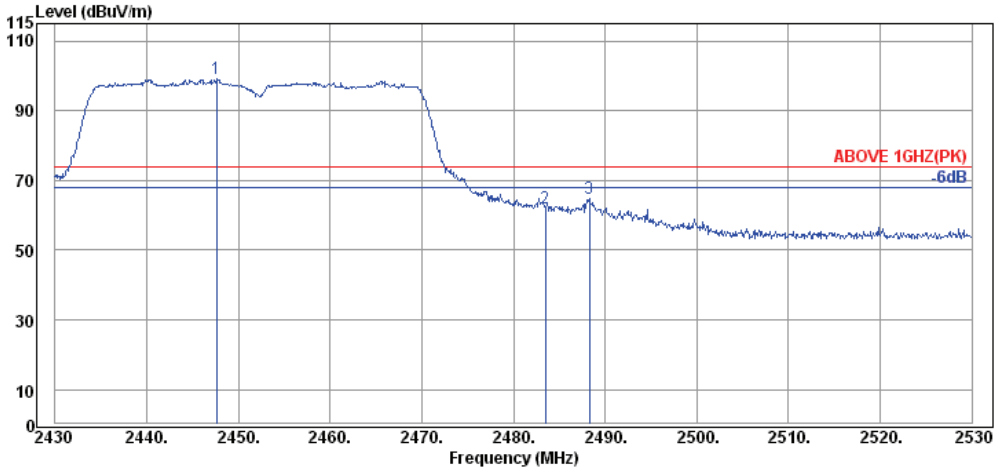
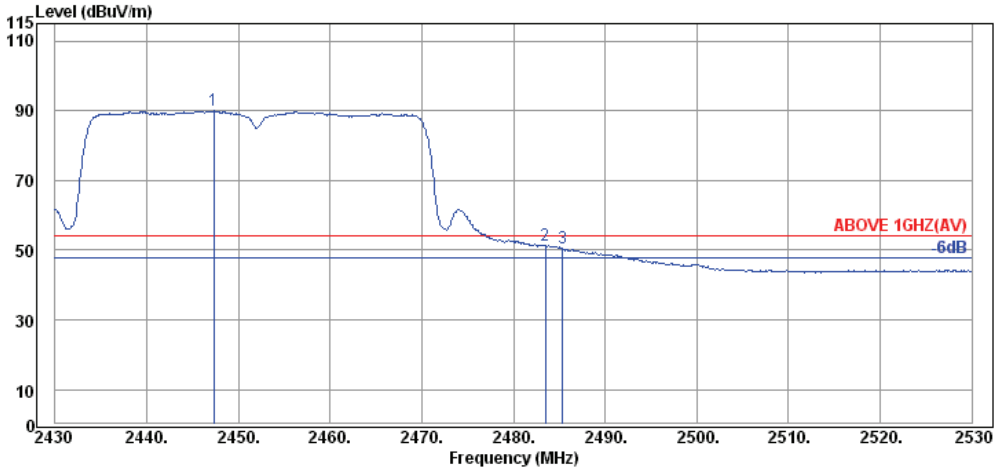
Mode	802.11n-HT40	Frequency	TX 2452MHz



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
2447.60	32.23	6.63	60.35	99.21	---	---	Peak
2483.50	32.28	6.67	22.99	61.94	74.00	12.06	Peak
2488.30	32.30	6.69	25.75	64.74	74.00	9.26	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
2447.30	32.23	6.63	51.06	89.92	---	---	Average
2483.50	32.28	6.67	12.30	51.25	54.00	2.75	Average
2485.40	32.28	6.67	11.56	50.51	54.00	3.49	Average

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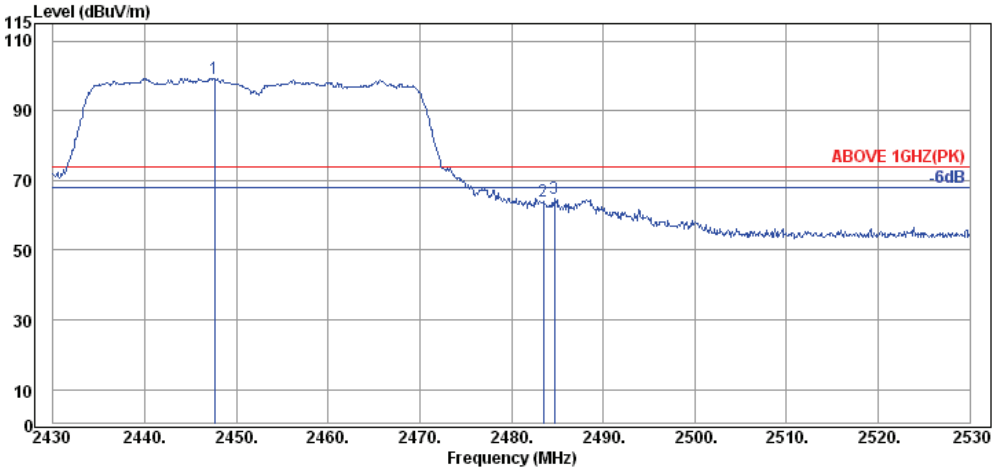
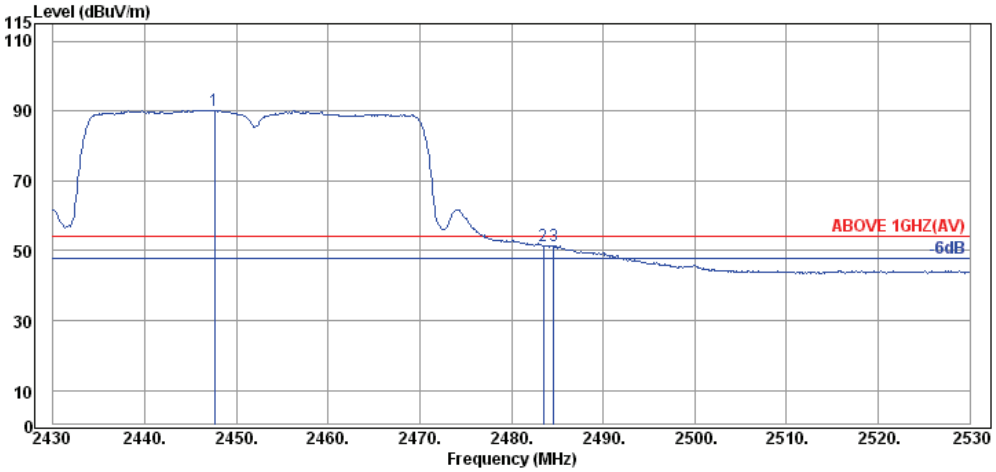
Mode	802.11n-HT40	Frequency	TX 2452MHz



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
2447.60	32.23	6.63	60.53	99.39	---	---	Peak
2483.50	32.28	6.67	24.90	63.85	74.00	10.15	Peak
2484.70	32.28	6.67	25.81	64.76	74.00	9.24	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
2447.60	32.23	6.63	51.41	90.27	---	---	Average
2483.50	32.28	6.67	12.39	51.34	54.00	2.66	Average
2484.60	32.28	6.67	12.40	51.35	54.00	2.65	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.

Antenna: PCB Antenna

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
9850.00	37.13	15.62	-4.91	47.84	54.00	6.16	Average
9850.00	37.13	15.62	-2.57	50.18	74.00	23.82	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
9850.00	37.13	15.62	-1.11	51.64	54.00	2.36	Average
9850.00	37.13	15.62	1.06	53.81	74.00	20.19	Peak

Antenna: Omni-S Antenna

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

A.2.3 Emissions in Non-restricted Frequency Bands:

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

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A.3 6dB BANDWIDTH

Test Date	2017/09/20~21	Temp./Hum.	23~24℃/55~56%
Cable Loss	---	Test Voltage	DC 3.3V (Via Notebook PC)

A.3.1 6dB Bandwidth Result

Mode	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	10.20	>500kHz
	2437	10.20	
	2462	10.20	
802.11g	2412	16.45	
	2437	16.45	
	2462	16.45	
802.11n-HT20	2412	17.66	
	2437	17.66	
	2462	17.66	
802.11n-HT40	2422	36.34	
	2437	36.32	
	2452	36.34	

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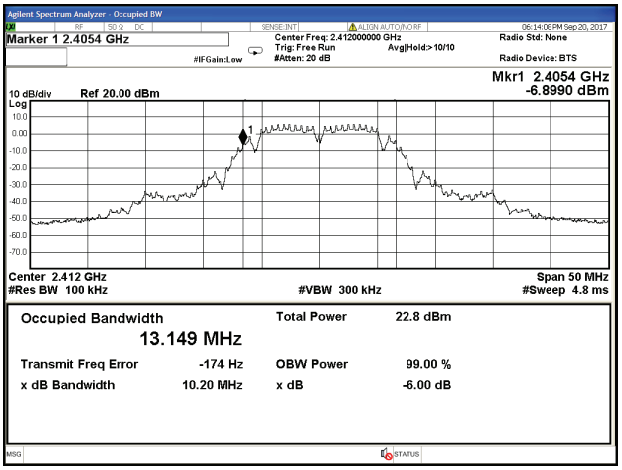
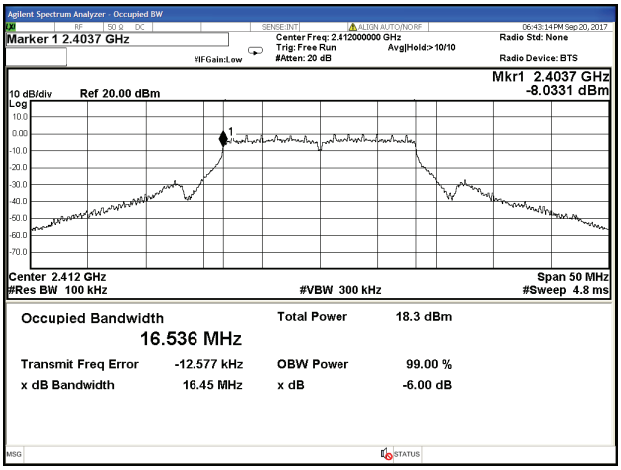
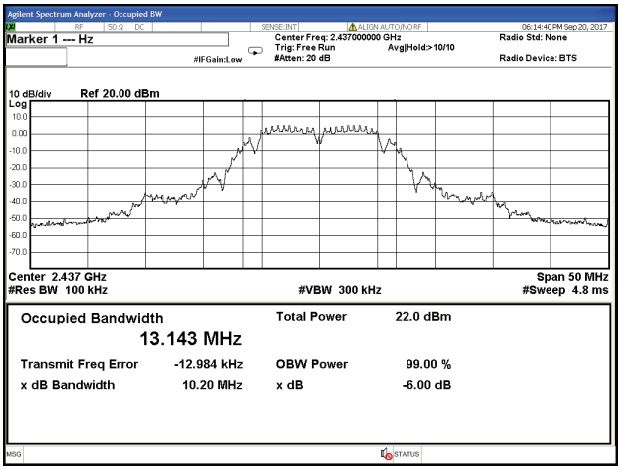
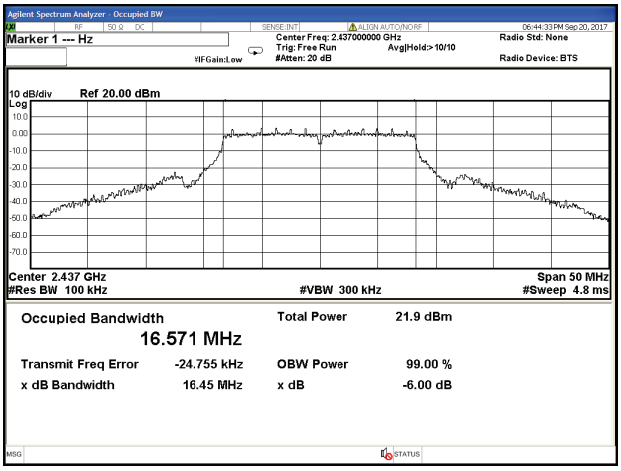
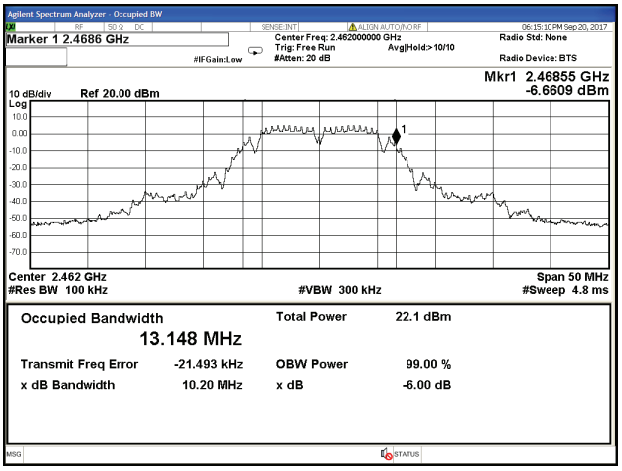
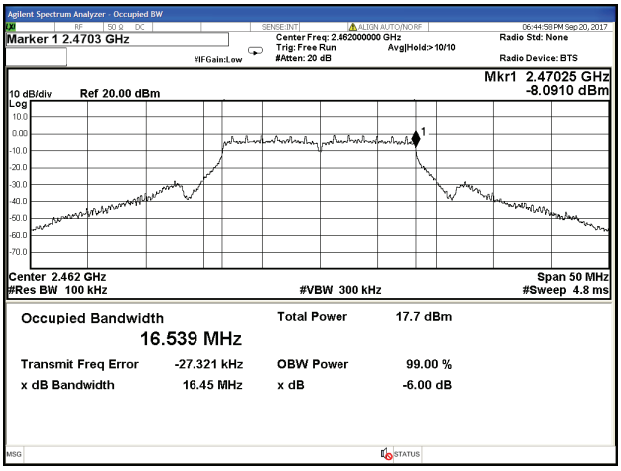
A.3.2 Measurement Plots

802.11b	802.11g
	
	
	

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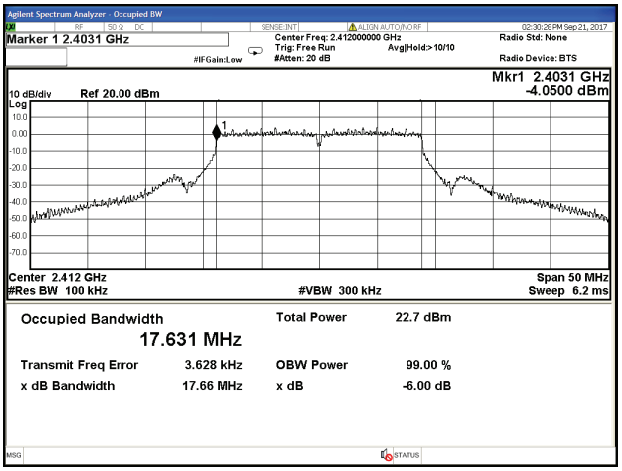
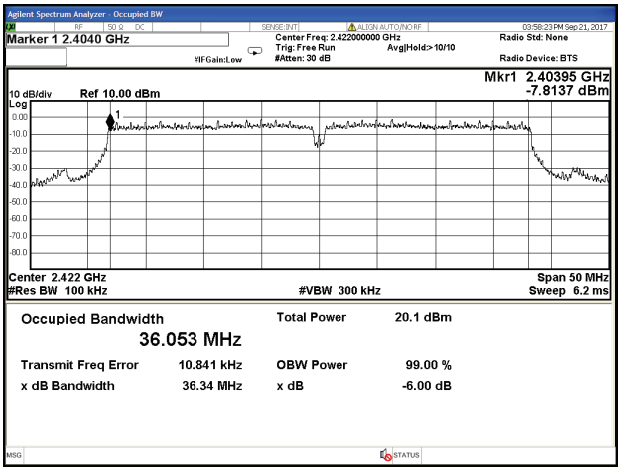
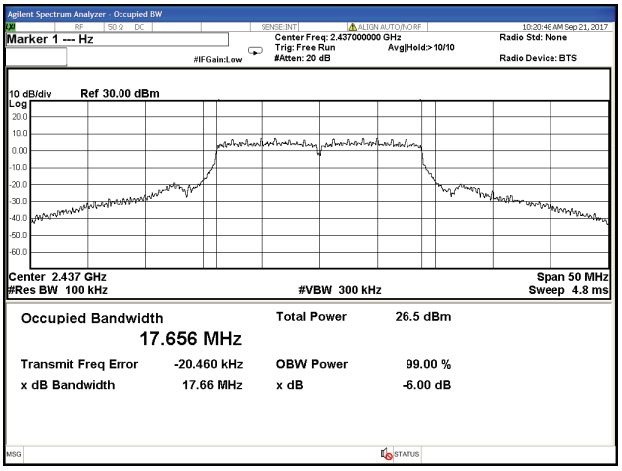
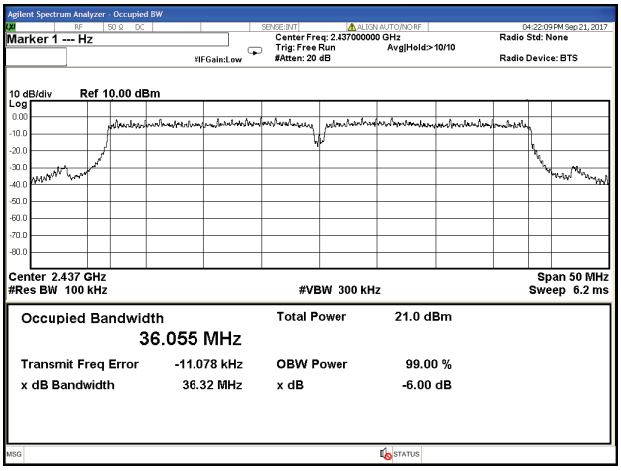
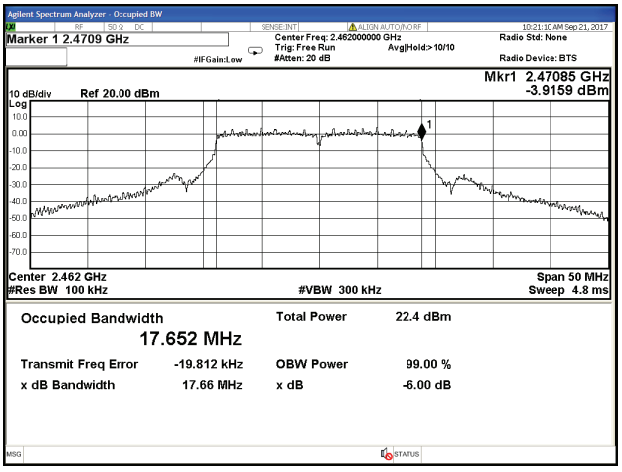
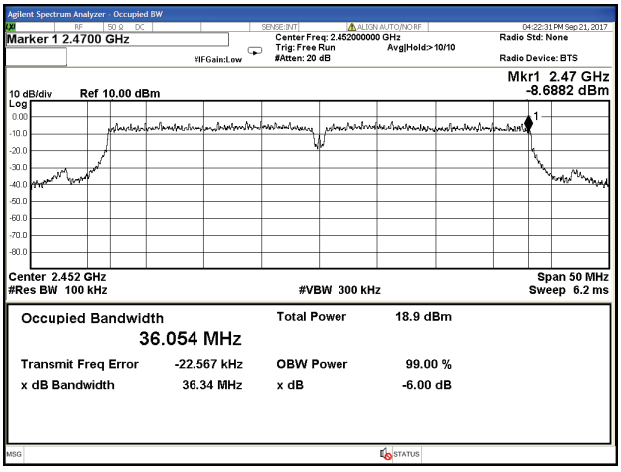
802.11n-HT20	802.11n-HT40
	
	
	

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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)

A.4.1 Peak Output Power

Antenna: PCB Antenna

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	21.44	20.98	21.44	0.139316	1	22.44	0.175388	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2437	21.52	20.76	21.52	0.141906		22.52	0.178649	
	2462	21.63	21.03	21.63	0.145546		22.63	0.183231	
802.11g	2412	23.18	22.93	23.18	0.207970		24.18	0.261818	
	2417	23.11	22.94	23.11	0.204644		24.11	0.257632	
	2437	25.49	25.48	25.49	0.353997		26.49	0.445656	
	2457	23.36	22.85	23.36	0.216770		24.36	0.272898	
	2462	23.35	22.92	23.35	0.216272		24.35	0.272270	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	20.96	19.72	23.39	0.218273	1	24.39	0.274789	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2417	20.93	19.71	23.37	0.217270		24.37	0.273527	
	2437	25.40	25.17	28.30	0.676083		29.30	0.851138	
	2457	21.09	19.84	23.52	0.224905		24.52	0.283139	
	2462	21.14	19.92	23.58	0.228034		24.58	0.287078	
802.11n-HT40	2422	20.06	18.52	22.37	0.172584		23.37	0.217270	
	2437	20.95	19.01	23.10	0.204174		24.10	0.257040	
	2452	20.05	17.11	21.83	0.152405		22.83	0.191867	

Note: The results have been included cable loss.

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Antenna: Omni-S Antenna

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	21.43	20.59	21.43	0.138995	6	27.43	0.553350	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2437	20.37	20.19	20.37	0.108893		26.37	0.433511	
	2462	21.28	20.74	21.28	0.134276		27.28	0.534564	
802.11g	2412	26.42	25.28	26.42	0.438531		32.42	1.745822	
	2437	26.79	26.30	26.79	0.477529		32.79	1.901078	
	2457	24.85	24.55	24.85	0.305492		30.85	1.216186	
	2462	24.97	24.53	24.97	0.314051		30.97	1.250259	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	25.62	25.38	25.62	0.364754	6	31.62	1.452112	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2417	25.47	25.33	25.47	0.352371		31.47	1.402814	
	2437	26.34	26.33	26.34	0.430527		32.34	1.713957	
	2457	23.77	23.45	23.77	0.238232		29.77	0.948418	
	2462	23.75	23.69	23.75	0.237137		29.75	0.944061	
802.11n-HT40	2422	21.12	20.91	21.12	0.129420		27.12	0.515229	
	2437	20.52	20.58	20.58	0.114288		26.58	0.454988	
	2452	20.68	20.73	20.73	0.118304		26.73	0.470977	

Note: The results have been included cable loss.

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A.4.2 Average Output Power (Reporting only)

Antenna: PCB Antenna

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	17.41	16.77	0	17.41	0.055081	1	18.41	0.069343	< 30dBm (1W) (Maximum Average Output Power) < 36dBm (4W) (E.I.R.P)
	2437	17.48	16.86		17.48	0.055976		18.48	0.070469	
	2462	17.61	16.91		17.61	0.057677		18.61	0.072611	
802.11g	2412	13.49	12.76	0.32	13.81	0.024044		14.81	0.030269	
	2417	13.53	12.71		13.85	0.024266		14.85	0.030549	
	2437	17.38	16.62		17.70	0.058884		18.70	0.074131	
	2457	13.24	13.81		14.13	0.025882		15.13	0.032584	
	2462	13.46	12.73		13.78	0.023878		14.78	0.030061	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	11.01	10.23	0.32	13.96	0.024889	1	14.96	0.031333	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2417	11.09	10.31		14.04	0.025351		15.04	0.031915	
	2437	17.51	16.84		20.51	0.112460		21.51	0.141579	
	2457	11.54	10.38		14.32	0.027040		15.32	0.034041	
	2462	11.58	10.33		14.33	0.027102		15.33	0.034119	
802.11n-HT40	2412	9.34	8.03	0.71	12.45	0.017579		13.45	0.022131	
	2437	10.04	8.48		13.05	0.020184		14.05	0.025410	
	2462	9.41	7.26		12.19	0.016558		13.19	0.020845	

Note: The results have been included cable loss.

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Antenna: Omni-S Antenna

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	17.37	16.95	0	17.37	0.054576	6	23.37	0.217270	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2437	17.32	16.57		17.32	0.053951		23.32	0.214783	
	2462	17.45	16.36		17.45	0.055590		23.45	0.221309	
802.11g	2412	17.24	16.71	0.32	17.56	0.057016		23.56	0.226986	
	2437	17.33	17.08		17.65	0.058210		23.65	0.231739	
	2457	15.84	15.33		16.16	0.041305		22.16	0.164437	
	2462	15.91	15.35		16.23	0.041976		22.23	0.167109	
802.11n-HT20	2412	15.21	14.69	0.32	15.53	0.035727		21.53	0.142233	
	2417	15.19	14.74		15.51	0.035563		21.51	0.141579	
	2437	17.05	17.13		17.37	0.054576		23.37	0.217270	
	2457	13.57	13.19		13.89	0.024491		19.89	0.097499	
	2462	13.62	13.28		13.94	0.024774		19.94	0.098628	
802.11n-HT40	2422	10.96	10.87	0.66	11.62	0.024774		19.94	0.098628	
	2437	10.75	10.83		11.41	0.014521		17.62	0.098628	
	2452	10.08	10.21		10.74	0.013836		17.41	0.057810	

Note: The results have been included cable loss.

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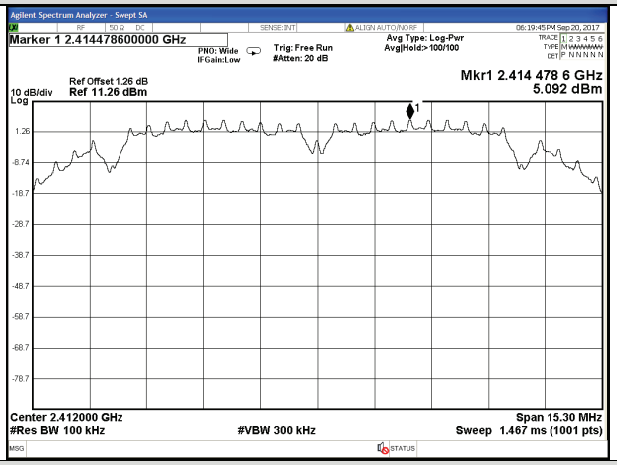
A.5 EMISSION LIMITATIONS

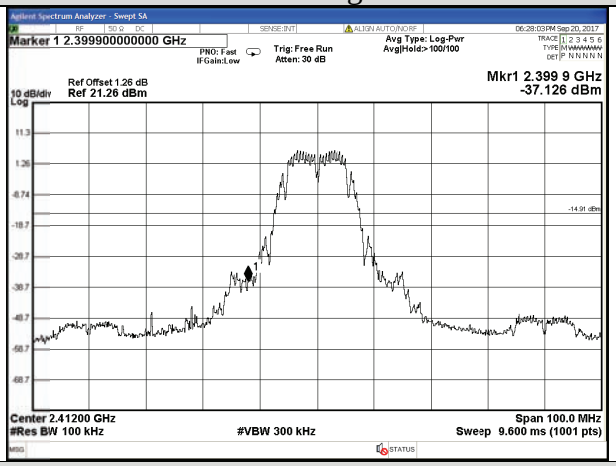
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

Antenna: PCB Antenna

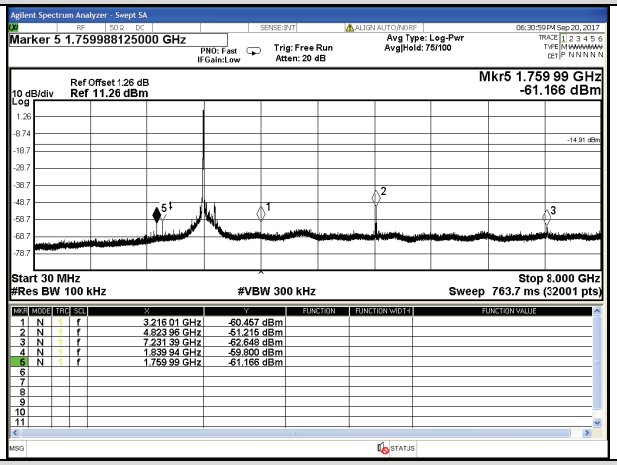
Reference Level



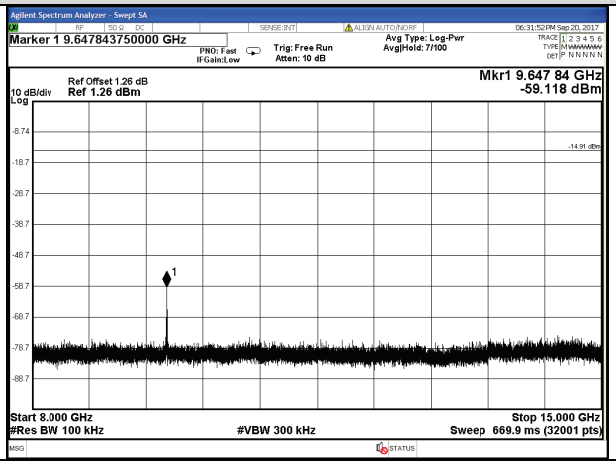
Band Edge



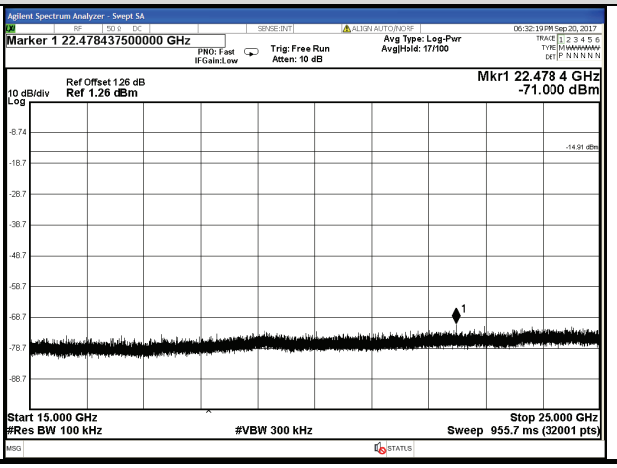
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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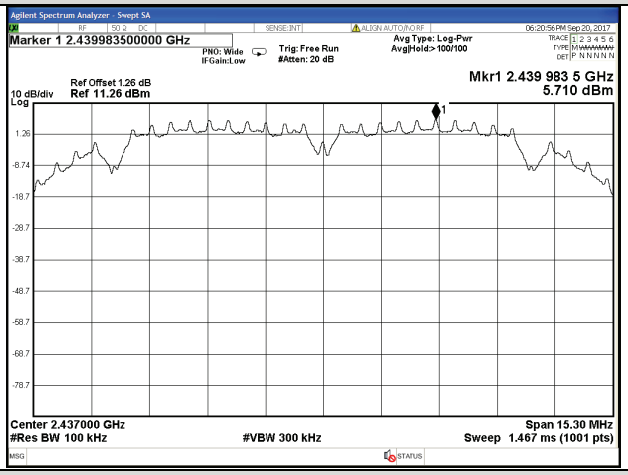
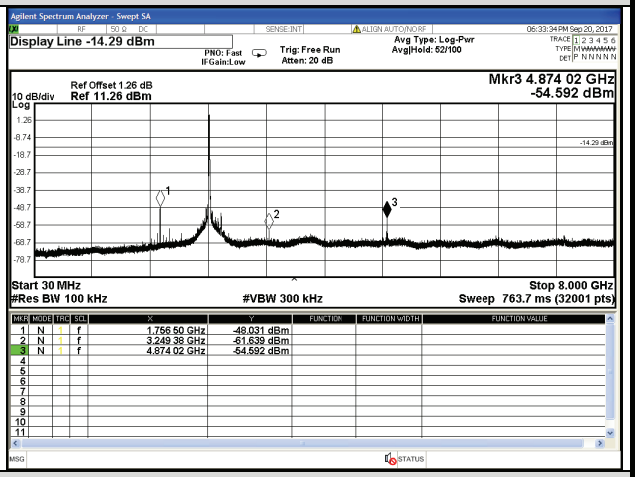
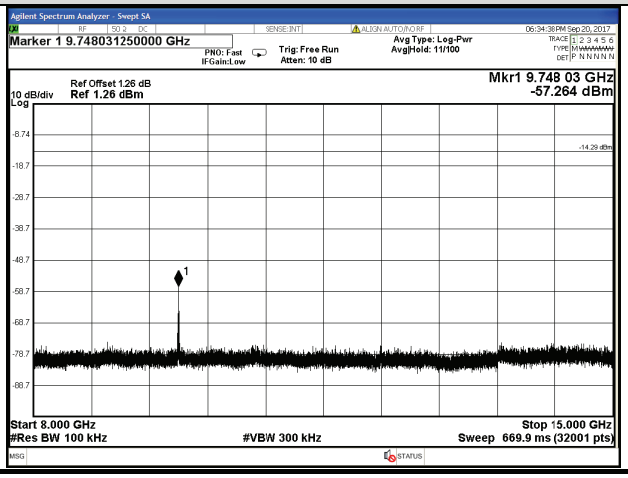
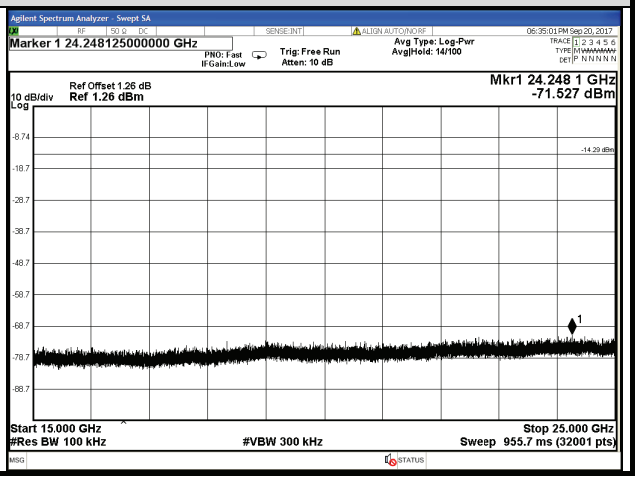
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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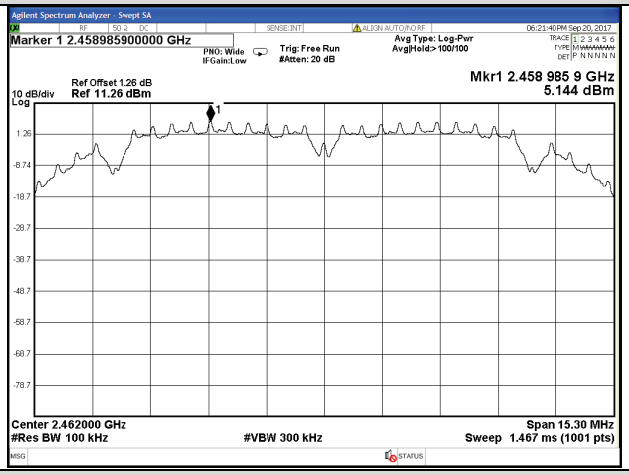
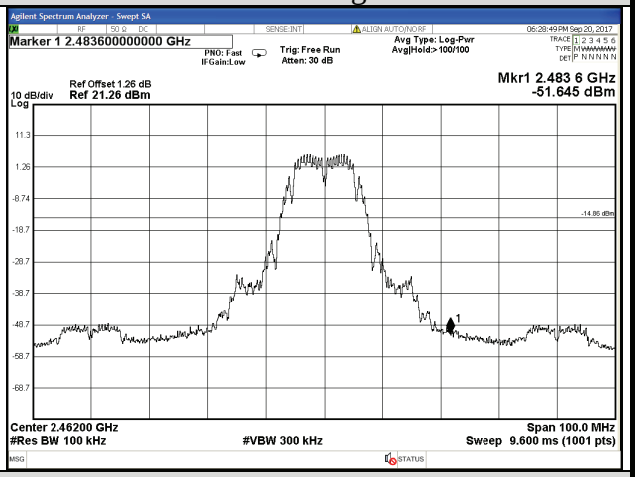
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

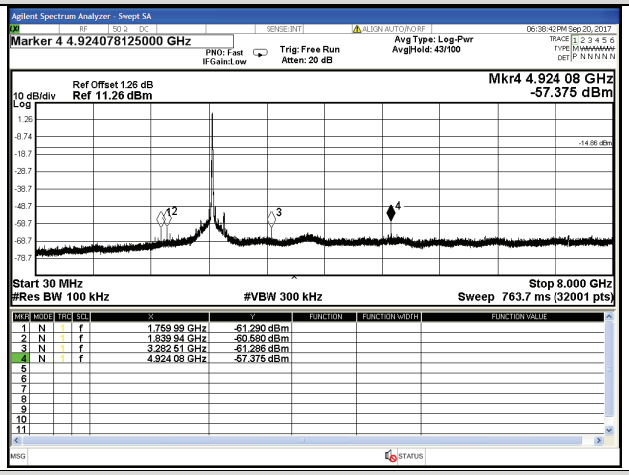
Reference Level



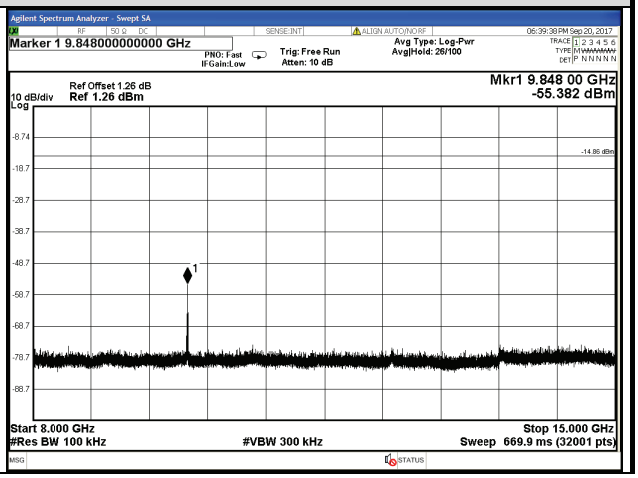
Band Edge



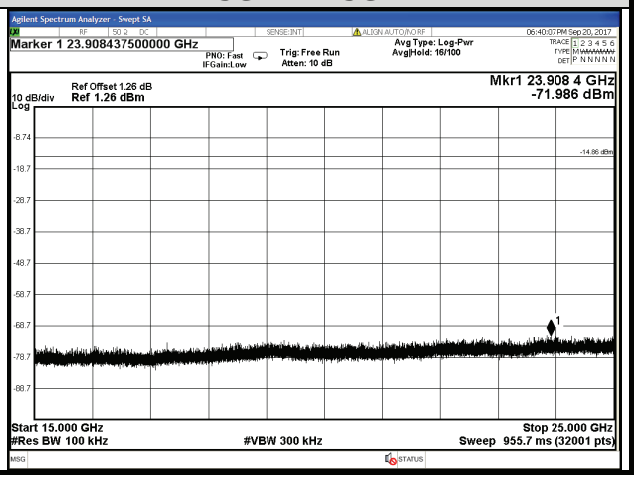
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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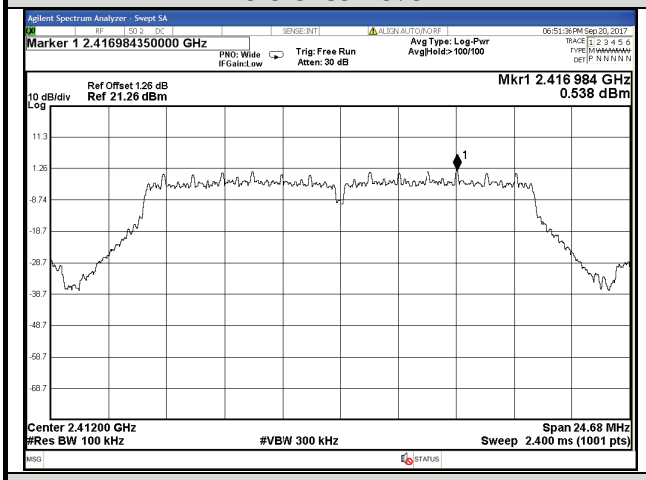
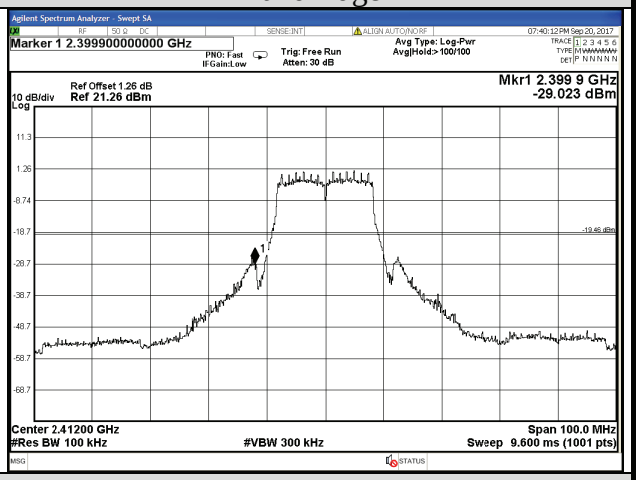
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

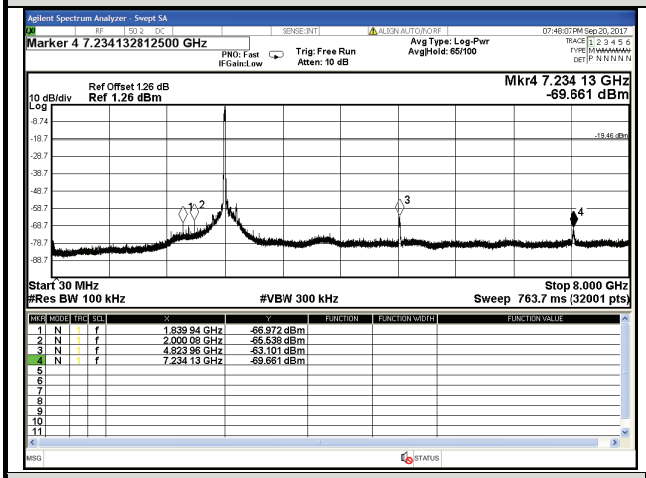
Reference Level



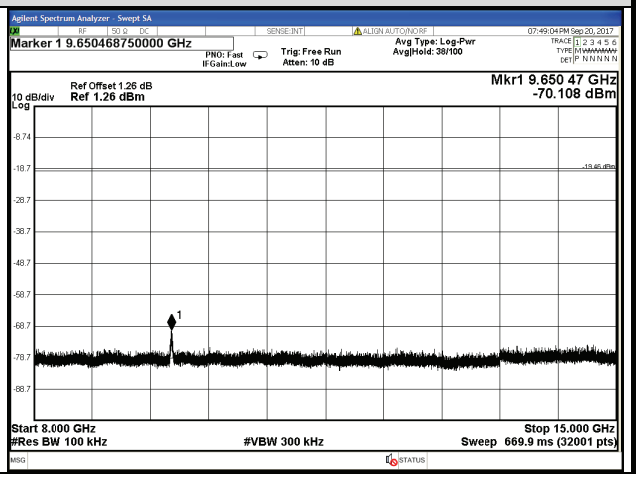
Band Edge



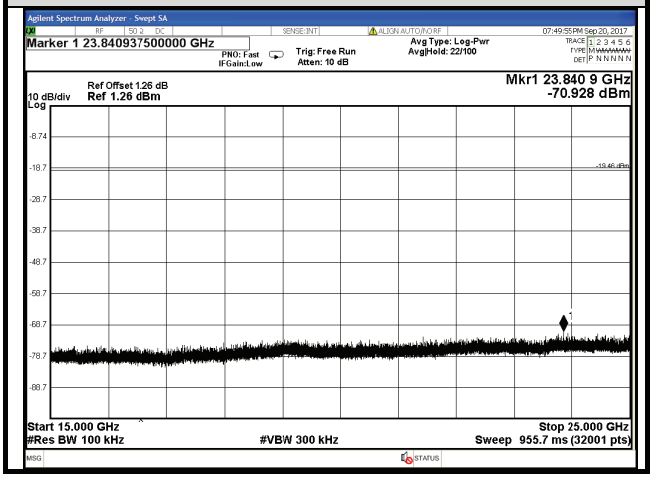
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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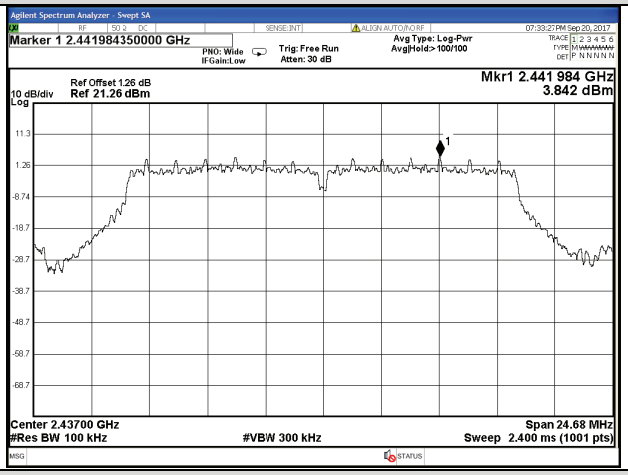
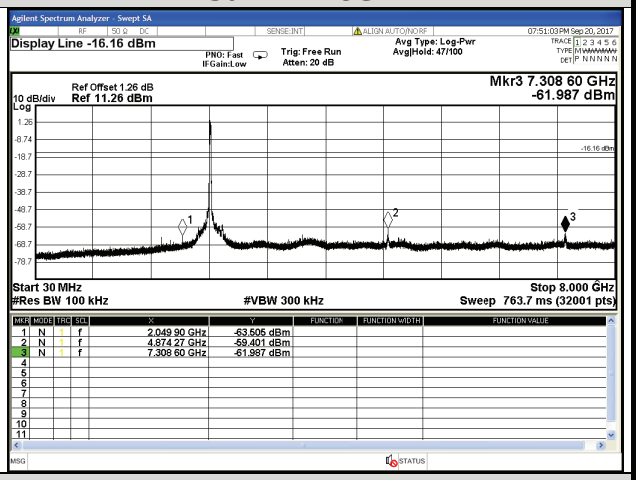
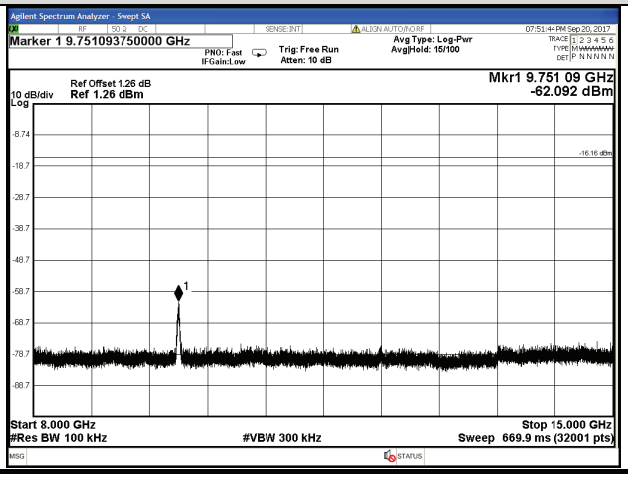
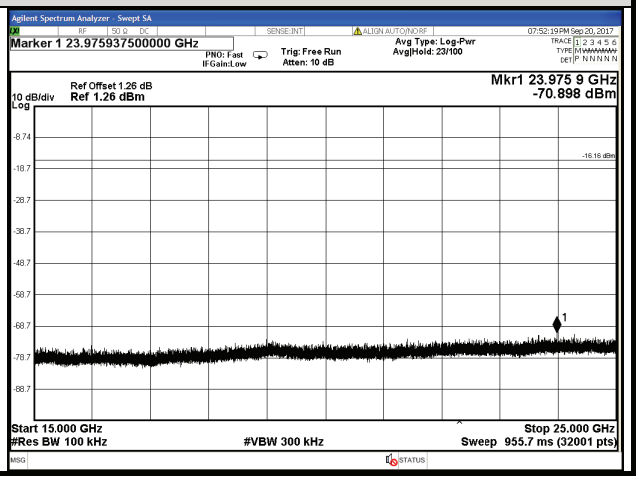
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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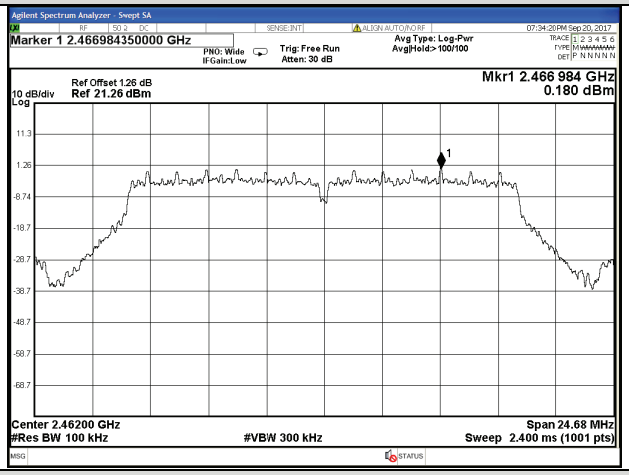
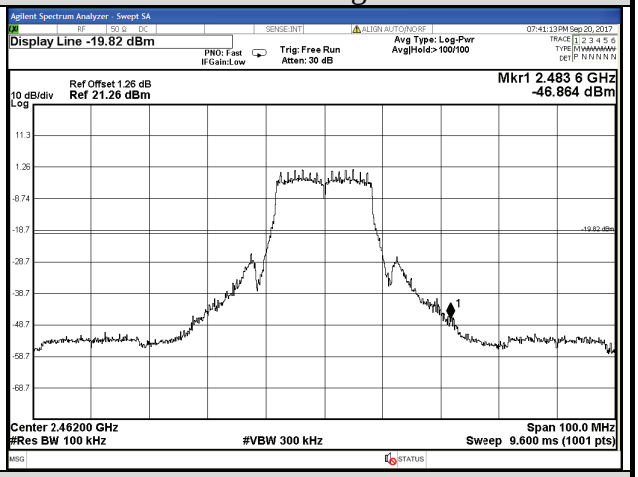
Test Date	2017/09/20	Temp./Hum.	23℃/55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

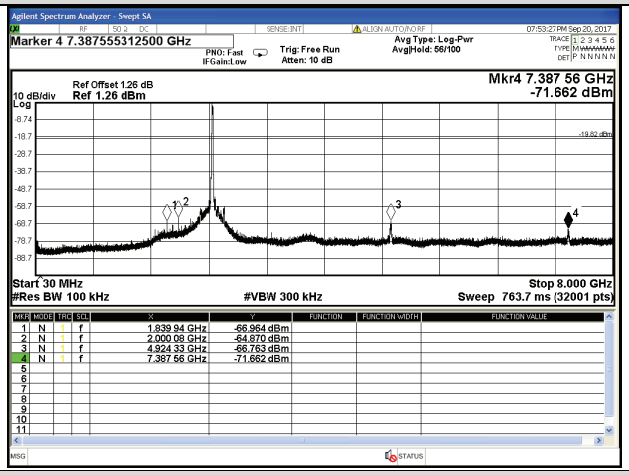
Reference Level



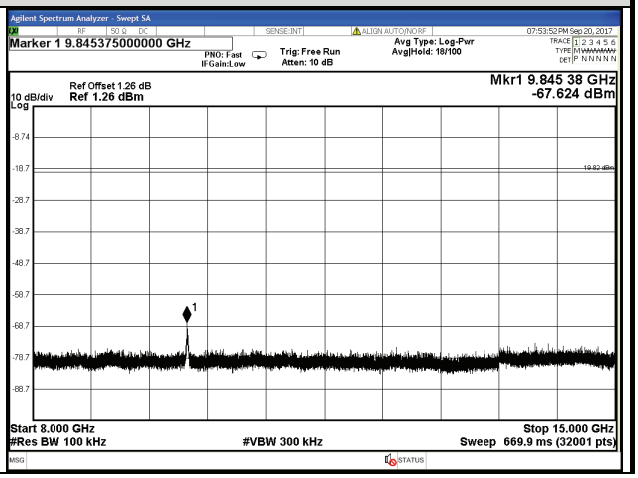
Band Edge



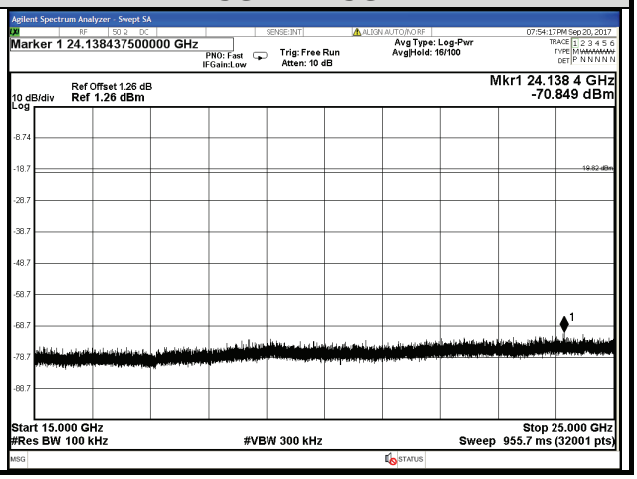
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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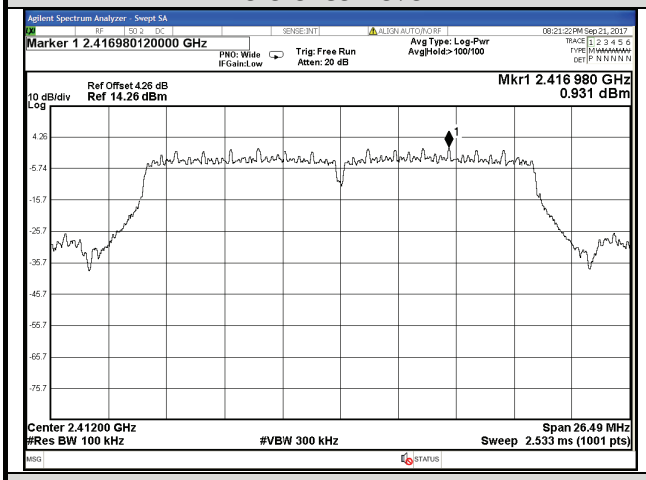
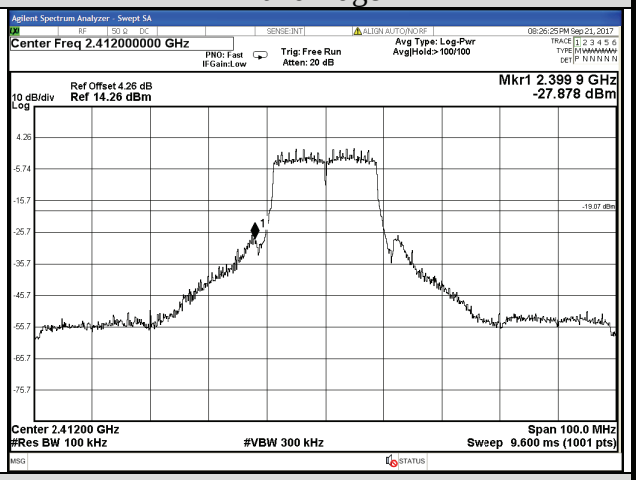
Test Date	2017/09/21	Temp./Hum.	23℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

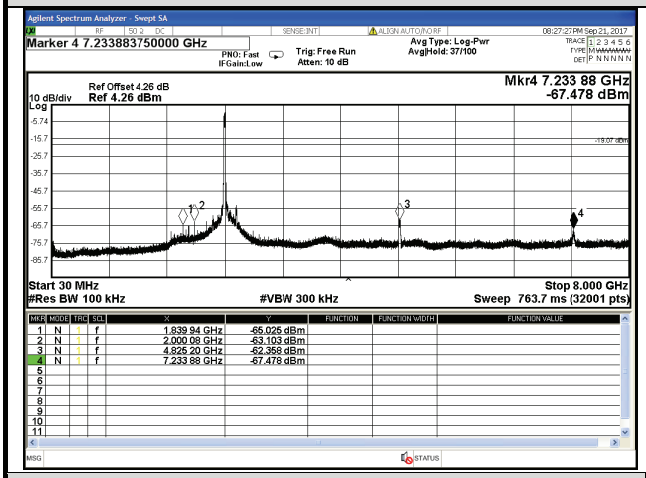
Reference Level



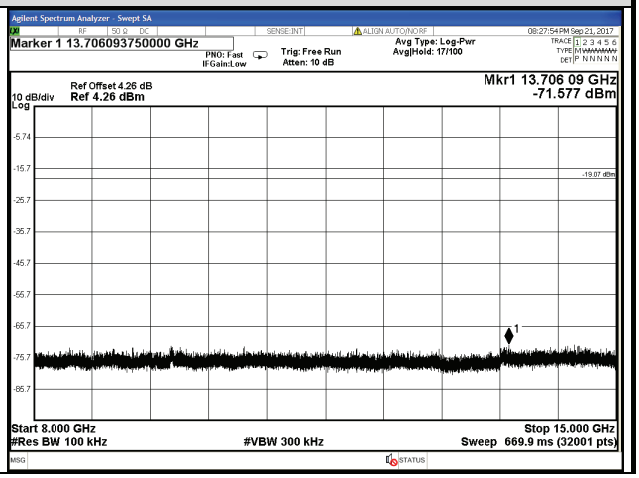
Band Edge



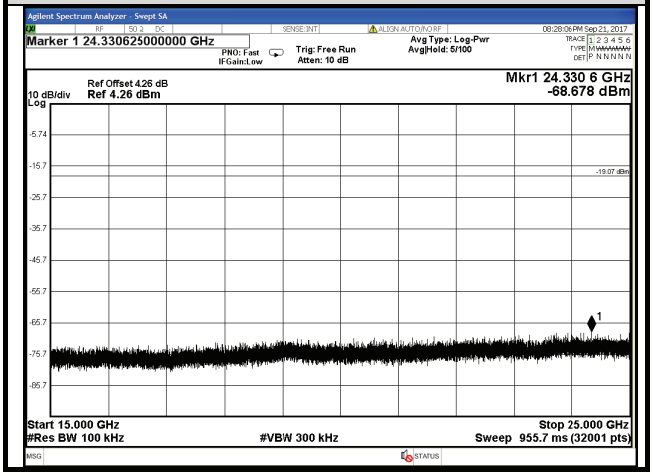
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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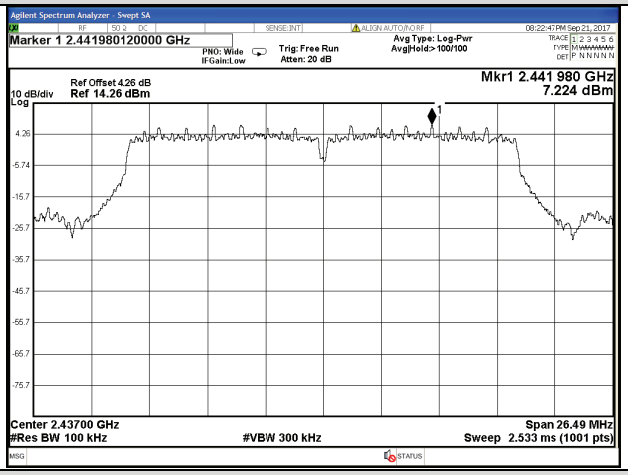
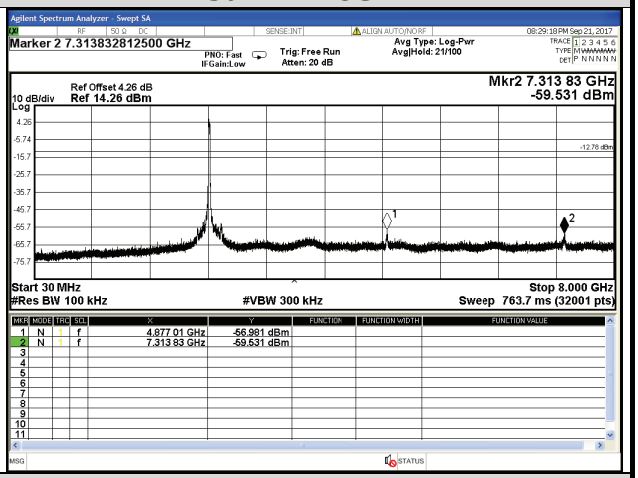
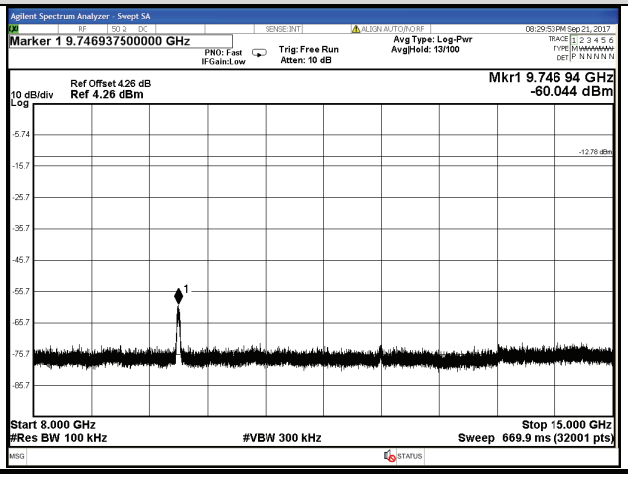
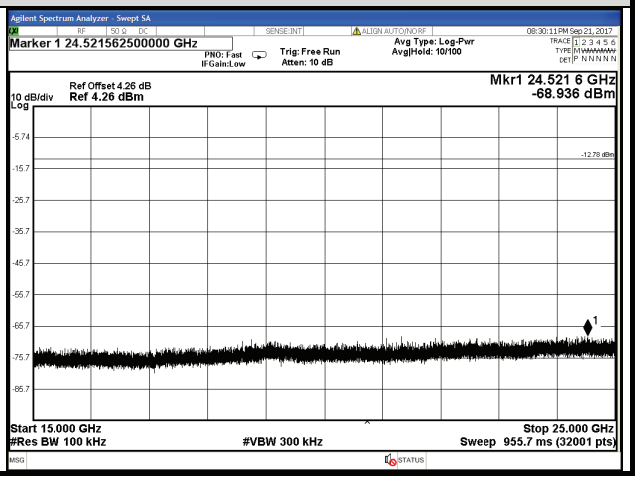
Test Date	2017/09/21	Temp./Hum.	23℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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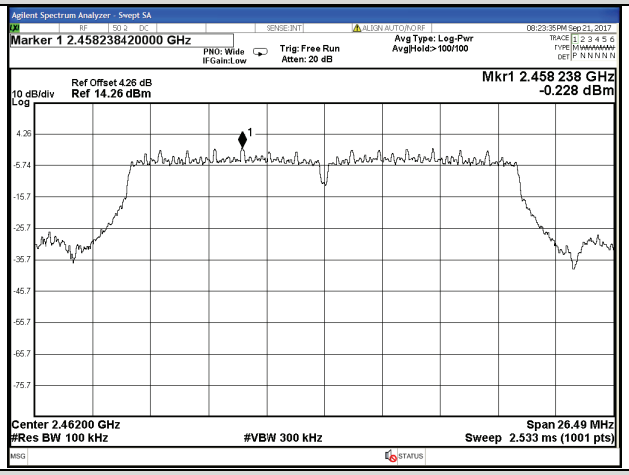
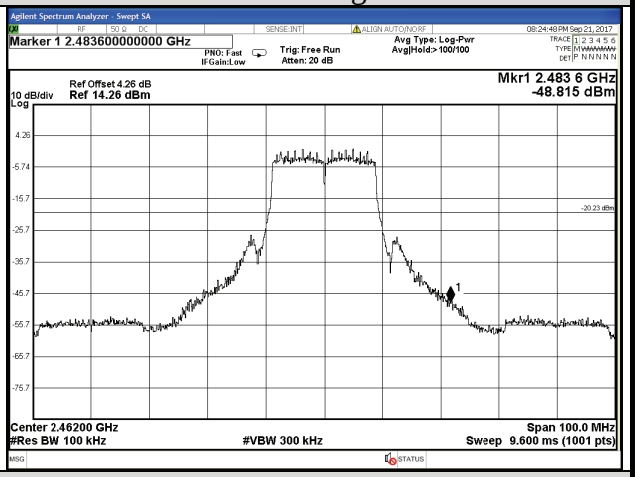
Test Date	2017/09/21	Temp./Hum.	23℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

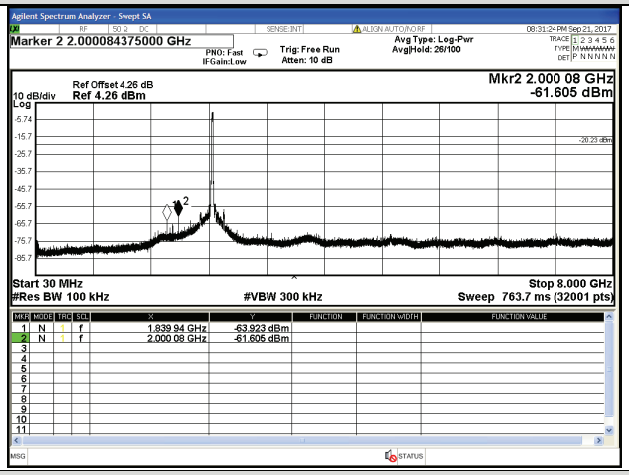
Reference Level



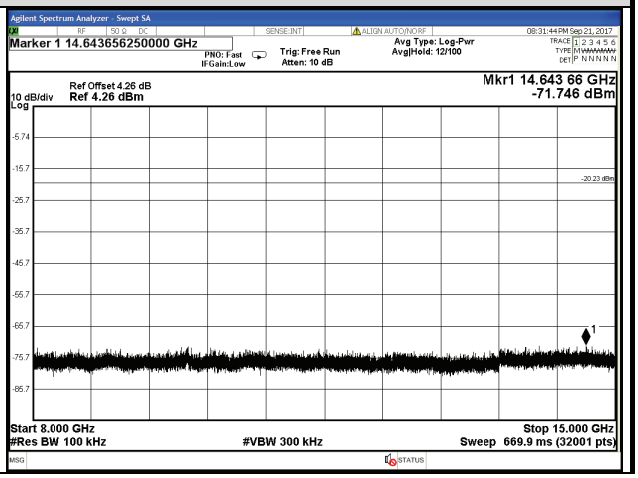
Band Edge



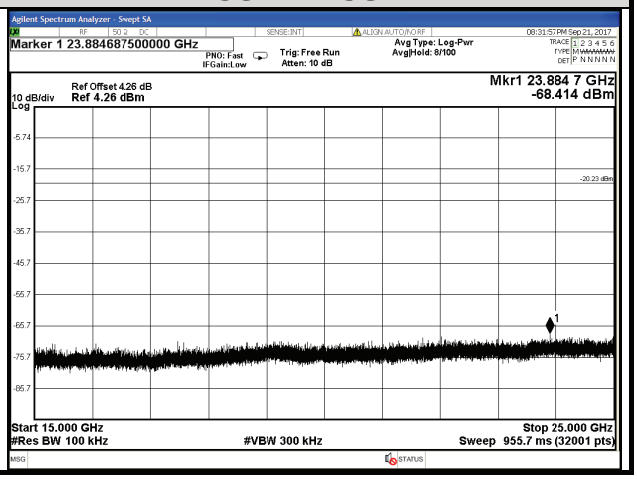
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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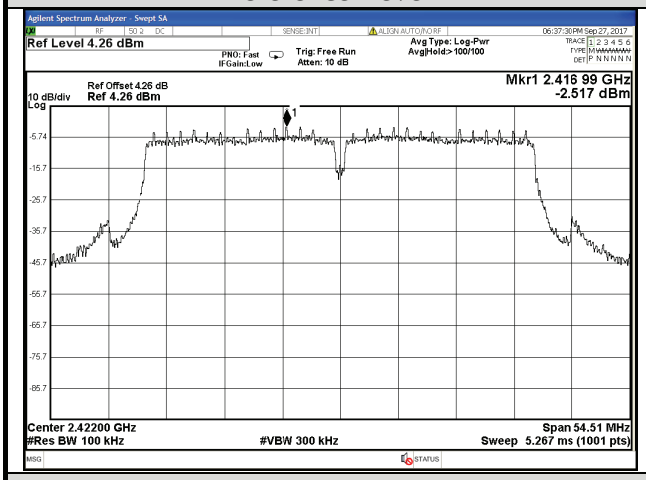
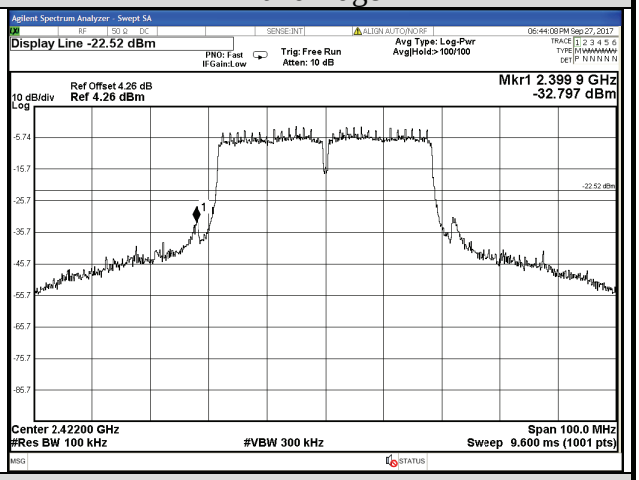
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

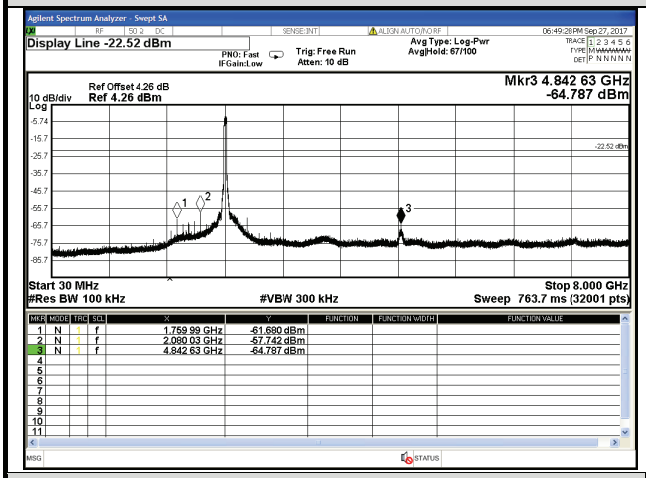
Reference Level



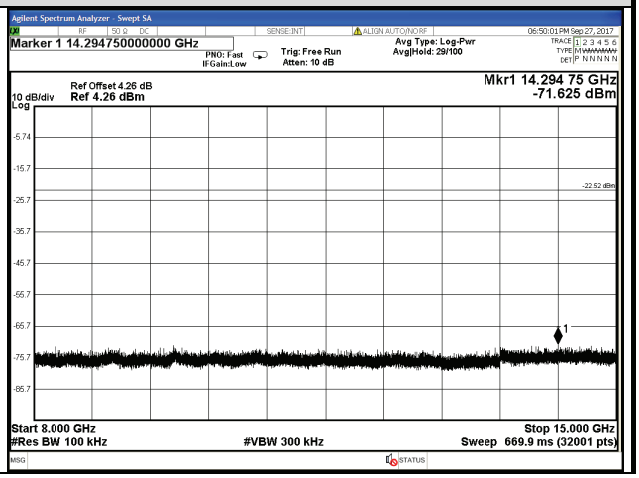
Band Edge



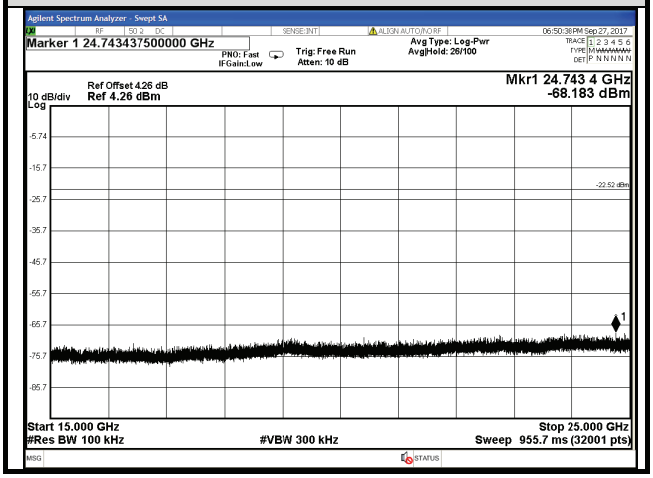
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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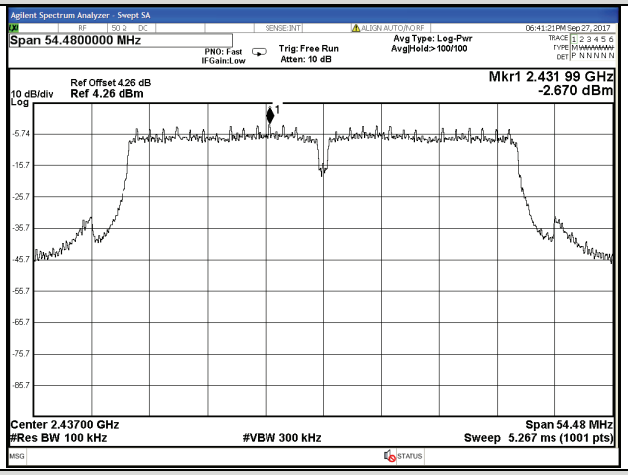
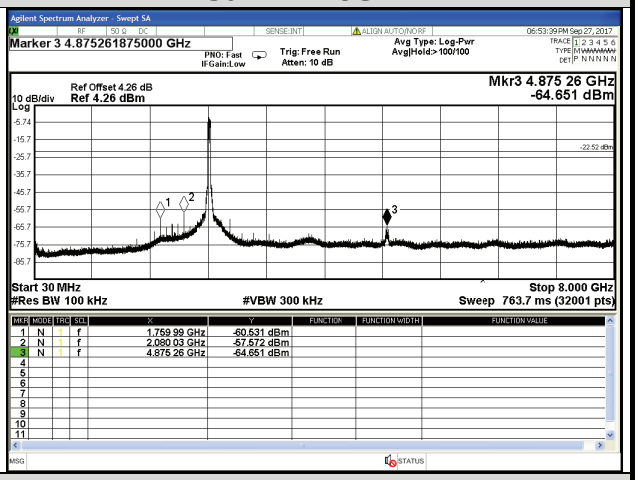
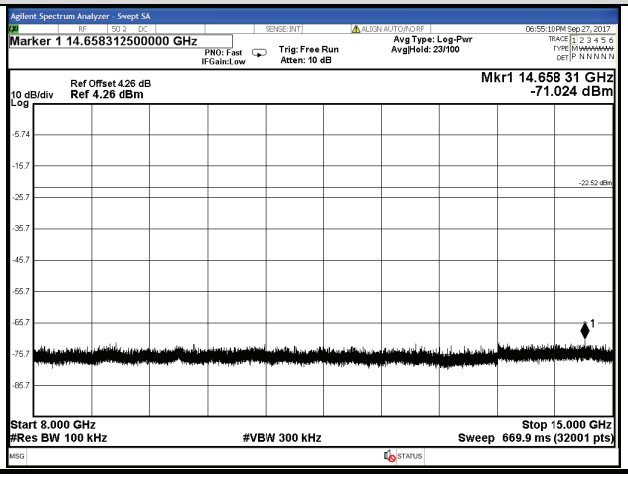
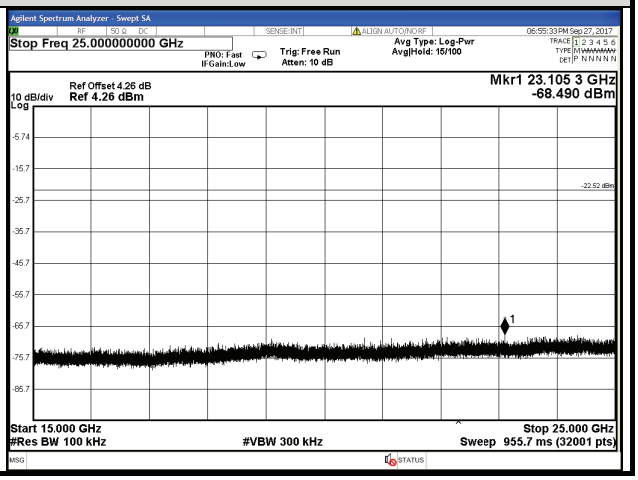
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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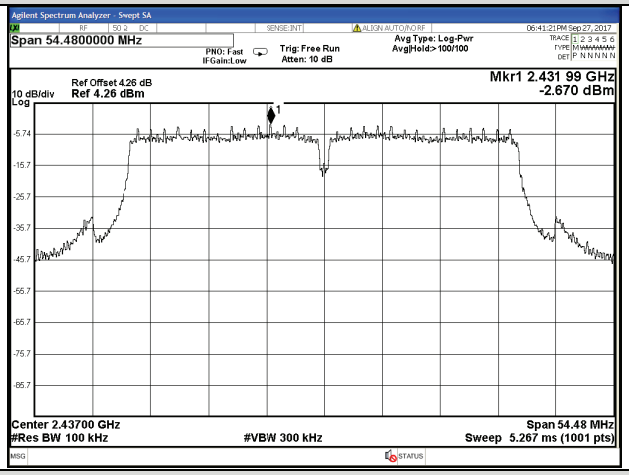
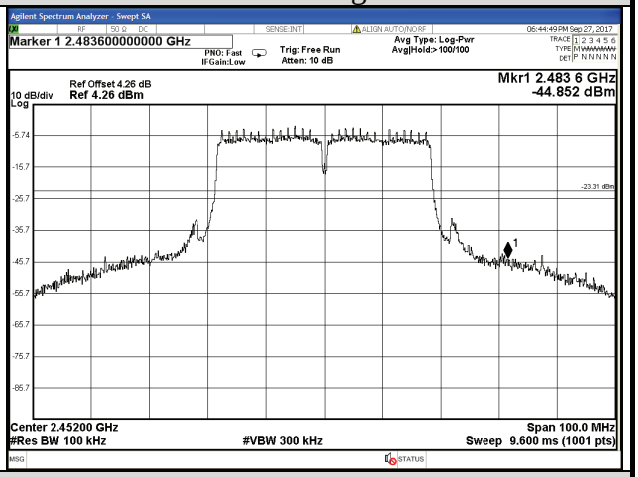
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

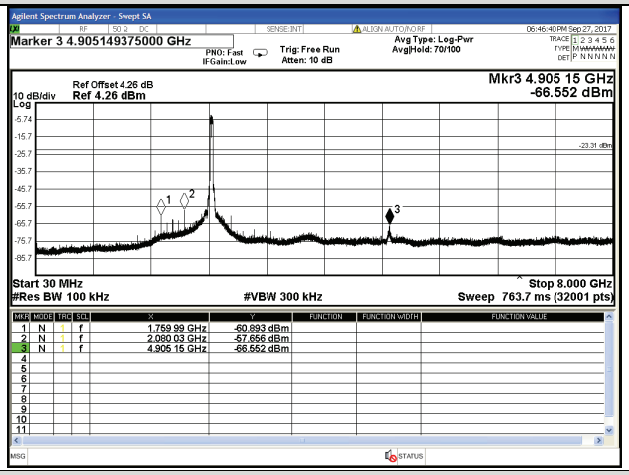
Reference Level



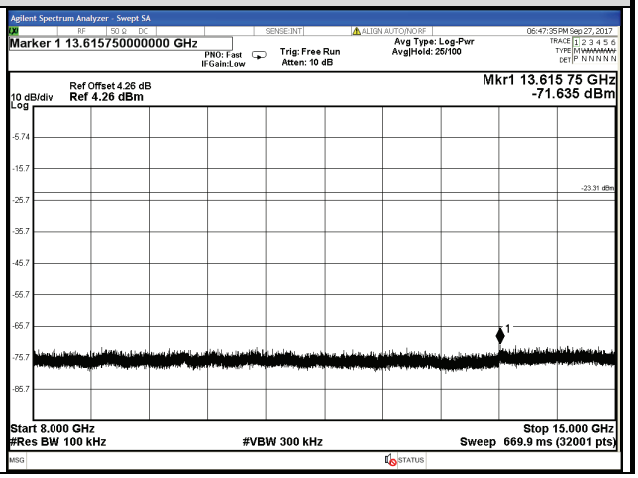
Band Edge



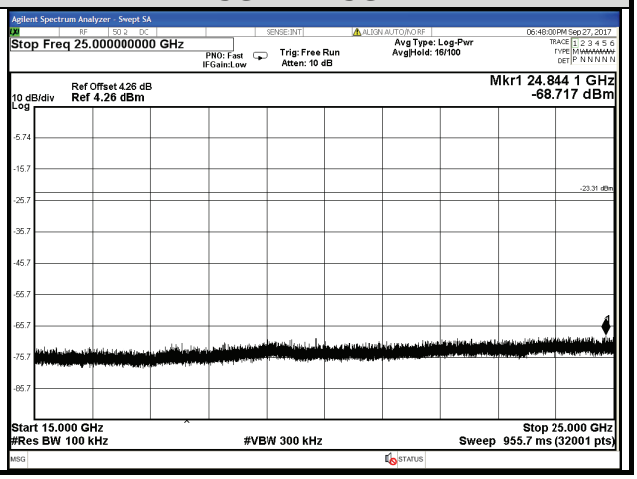
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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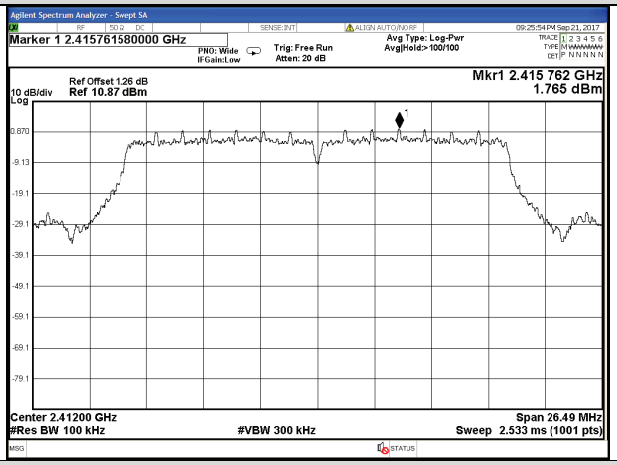
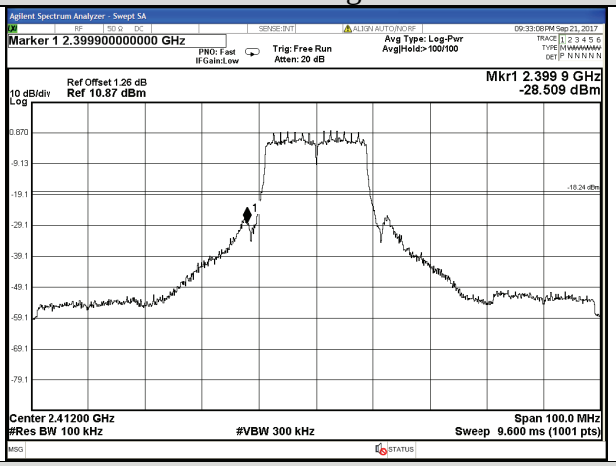
Antenna: Omni-S Antenna

Test Date	2017/09/21	Temp./Hum.	23℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

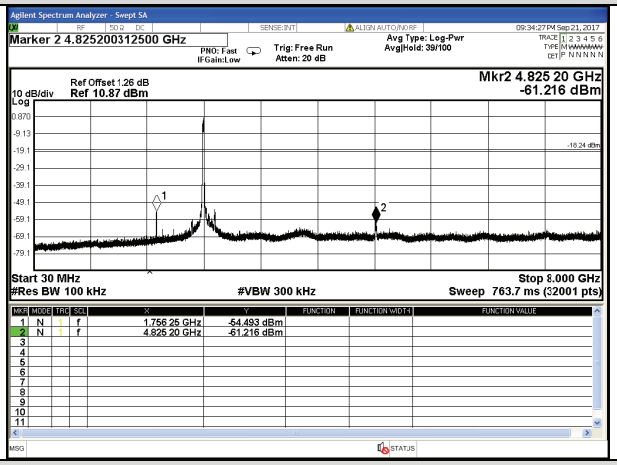
Reference Level



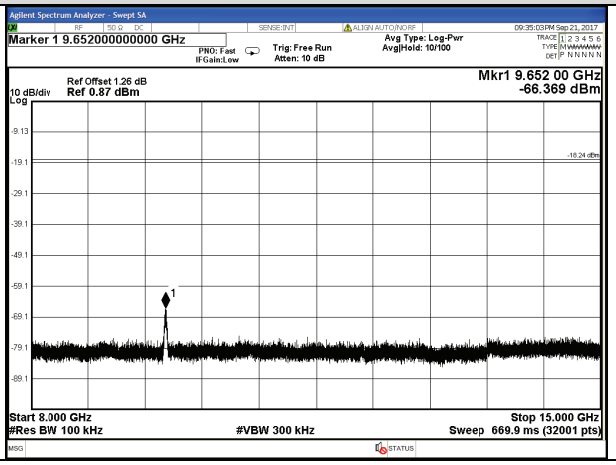
Band Edge



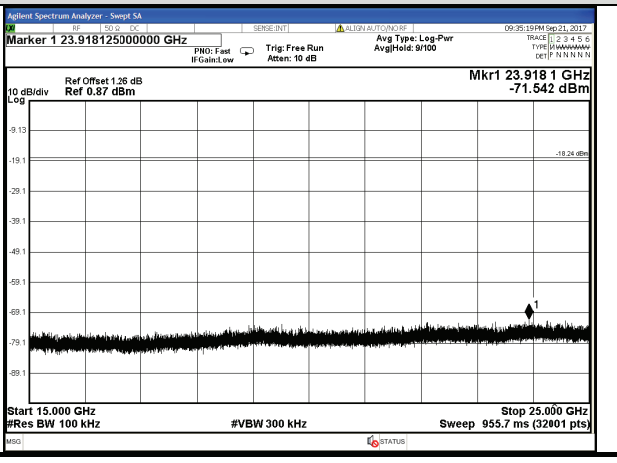
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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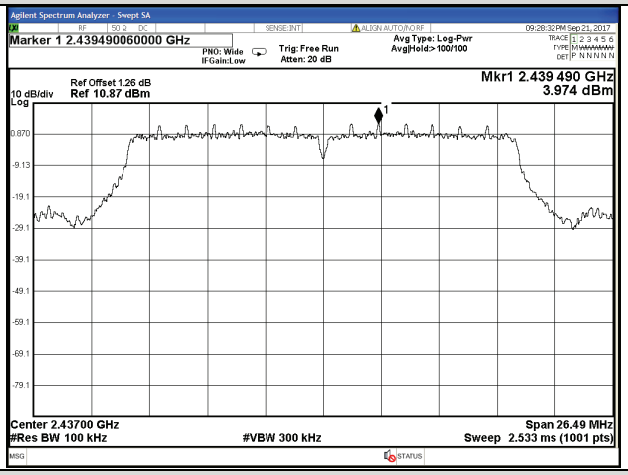
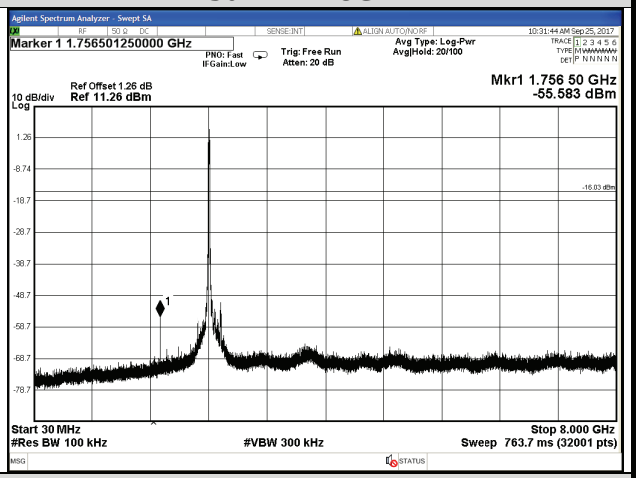
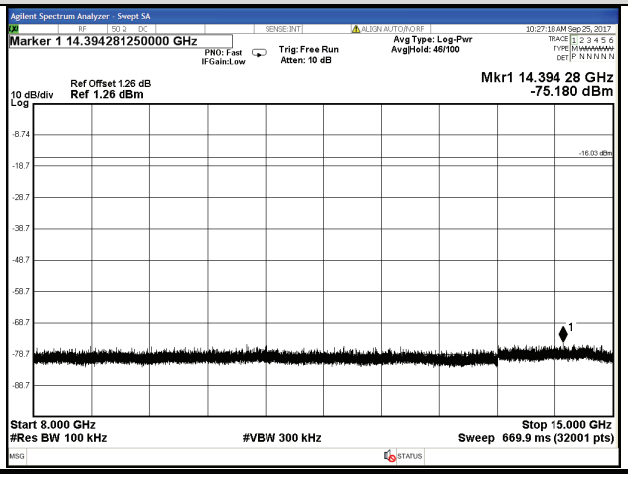
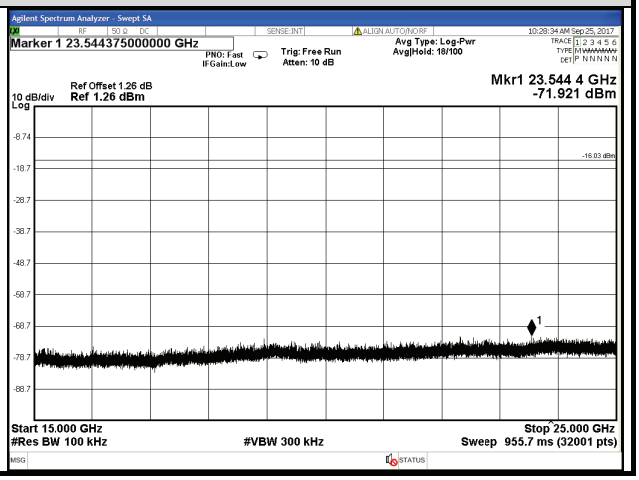
Test Date	2017/09/21 ~ 25	Temp./Hum.	23 ~ 24℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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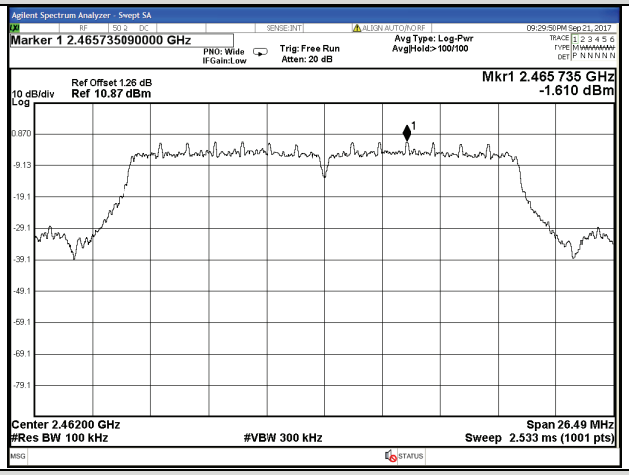
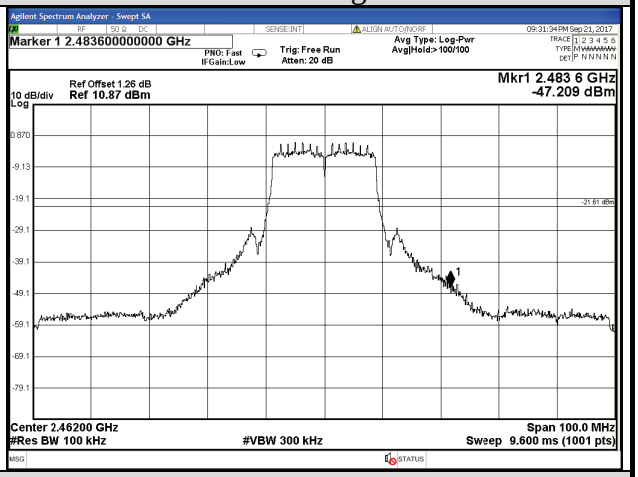
Test Date	2017/09/21 ~ 25	Temp./Hum.	23 ~ 24℃/54%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

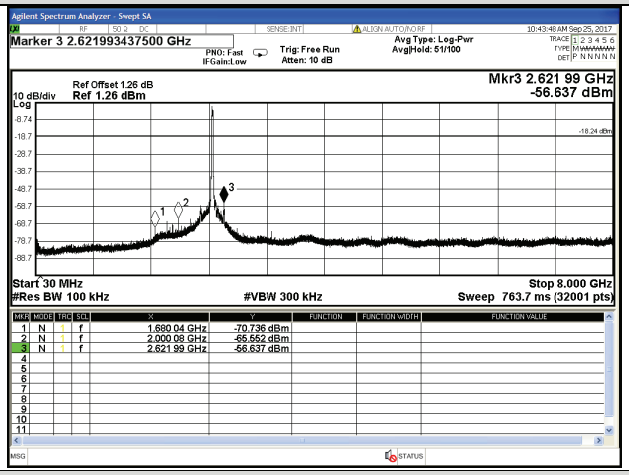
Reference Level



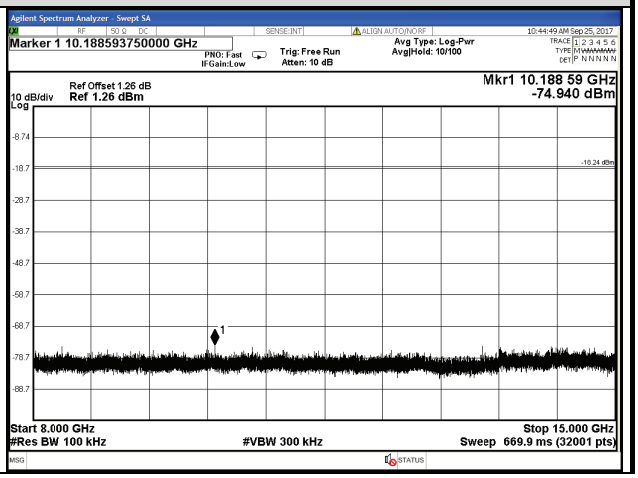
Band Edge



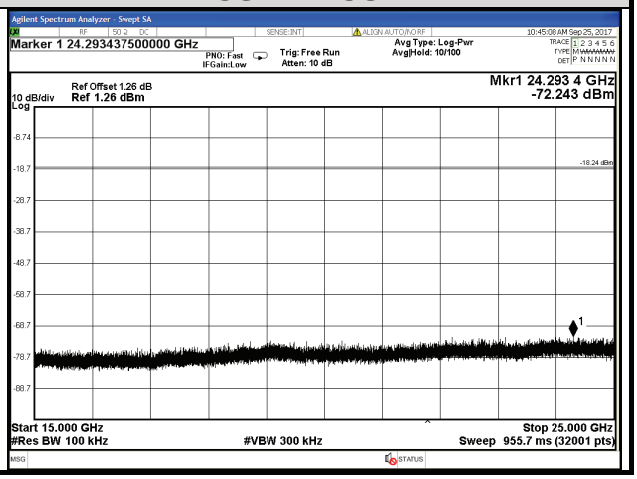
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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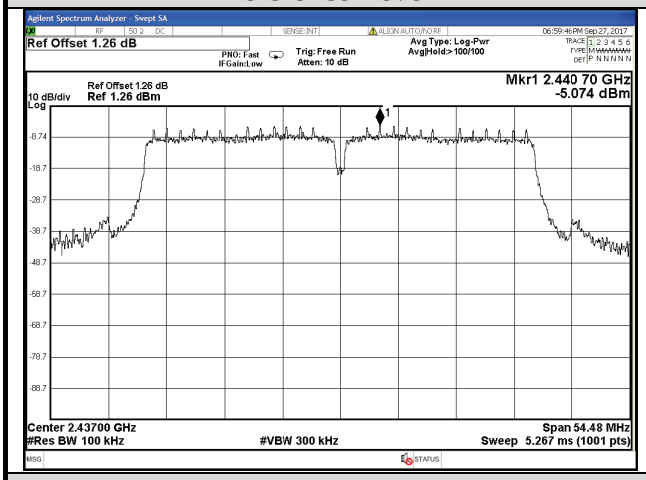
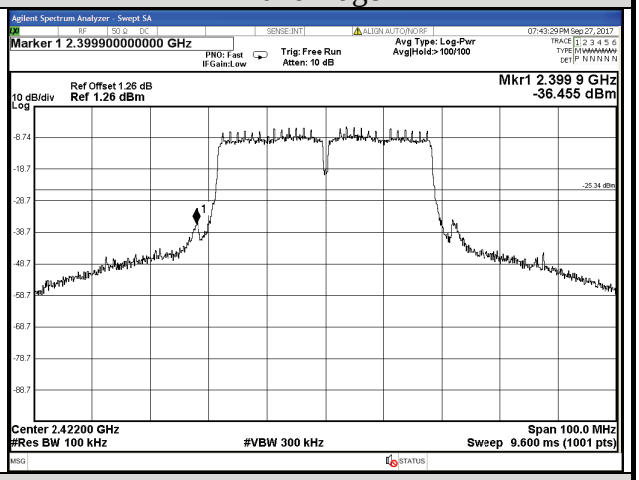
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

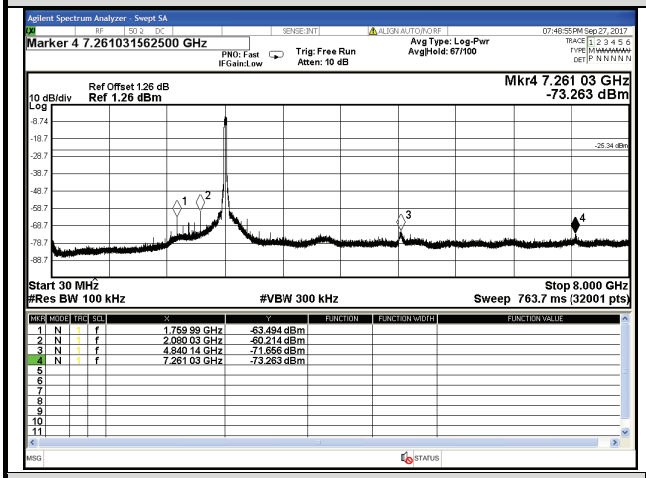
Reference Level



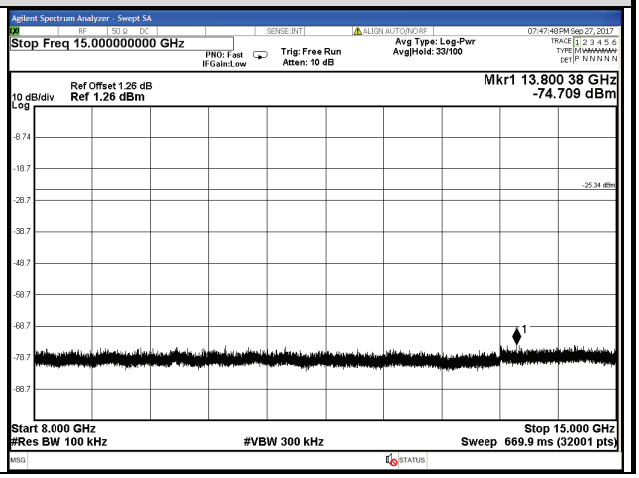
Band Edge



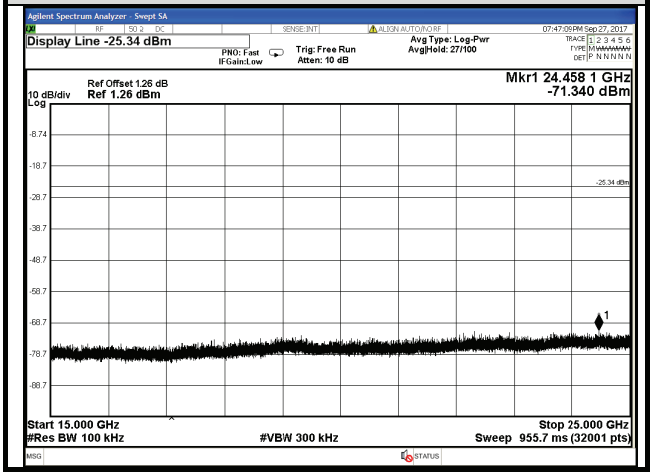
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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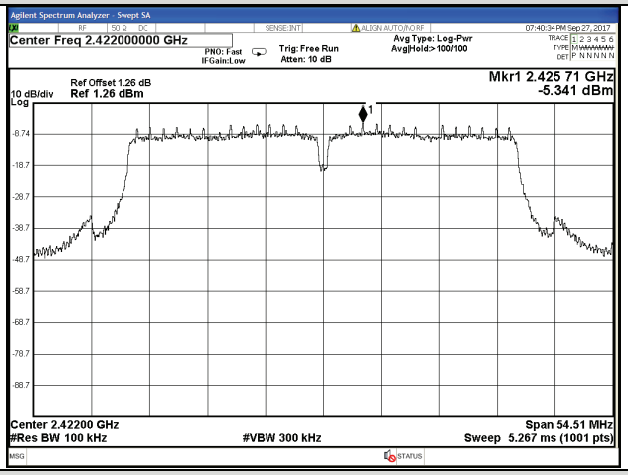
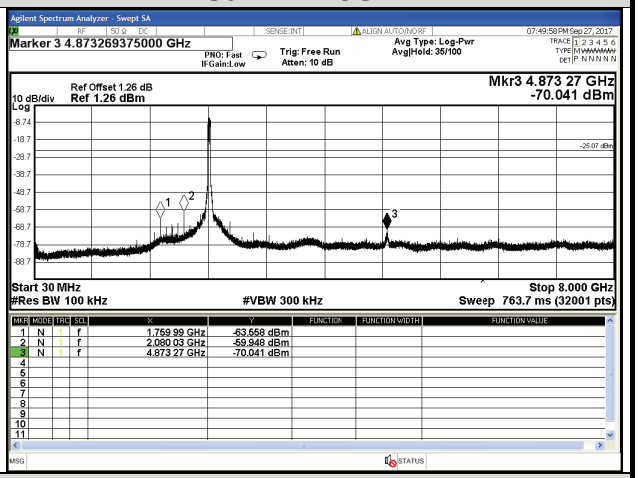
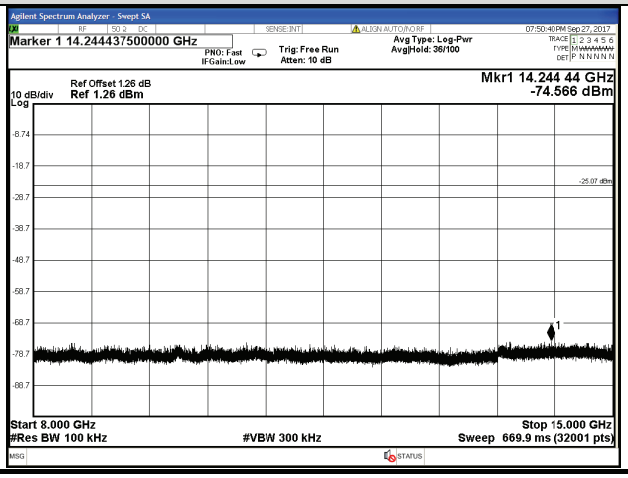
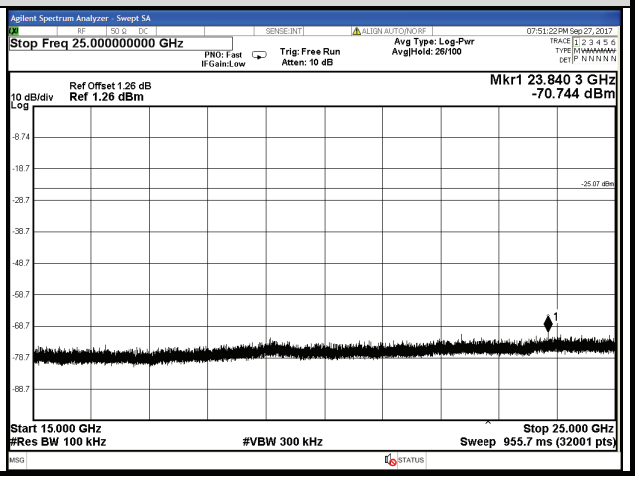
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

Reference Level	30MHz – 8GHz
	
8GHz – 15GHz	**15GHz – 25GHz**
	

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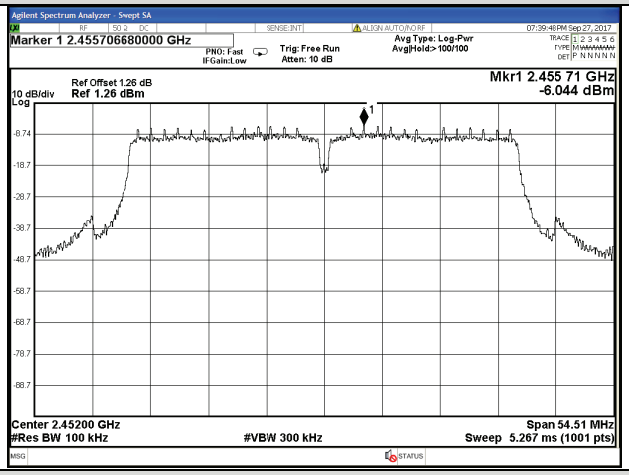
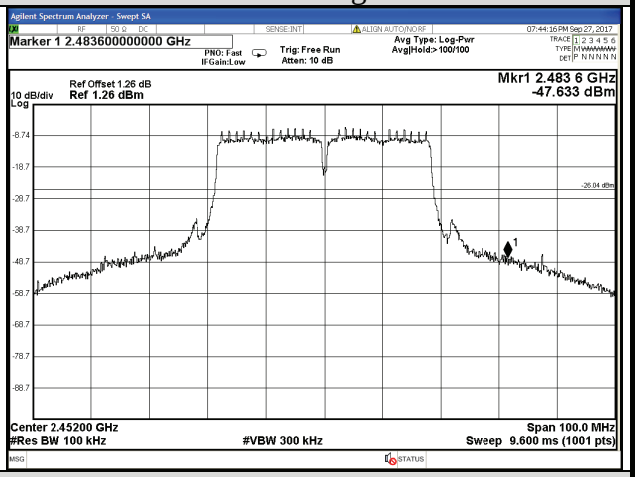
Test Date	2017/09/27	Temp./Hum.	23℃/53%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0

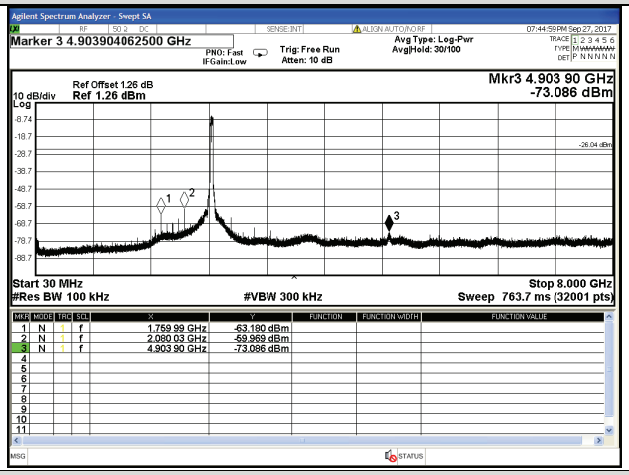
Reference Level



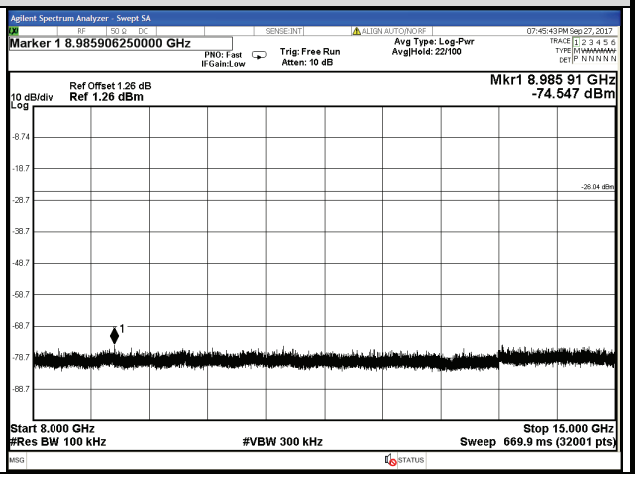
Band Edge



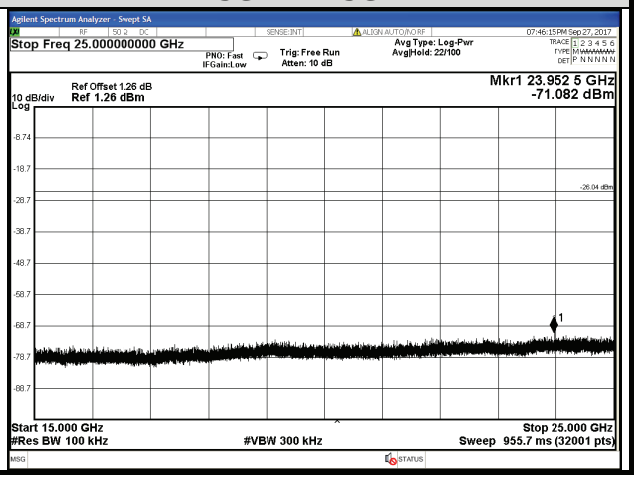
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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A.6 POWER SPECTRAL DENSITY

Test Date	2017/09/21 ~ 10/30	Temp./Hum.	23℃/54 ~ 55%
Cable Loss	1.26dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3 for PCB Antenna, 0 for Omni-S Antenna

A.6.1 Power Spectral Density Result

Antenna: PCB Antenna

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	5.092	< 8 dBm/3kHz
	2437	5.710	
	2462	5.144	
802.11g	2412	0.538	
	2437	3.842	
	2462	0.180	
802.11n-HT20	2412	0.931	
	2437	7.224	
	2462	-0.228	
802.11n-HT40	2422	-2.517	
	2437	-3.305	
	2452	-2.670	

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

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Antenna: Omni-S Antenna

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	5.058	< 8 dBm/3kHz
	2437	4.580	
	2462	4.681	
802.11g	2412	3.556	
	2437	4.186	
	2462	1.870	
802.11n-HT20	2412	1.765	
	2437	3.974	
	2462	-1.610	
802.11n-HT40	2422	-5.074	
	2437	-5.341	
	2452	-6.044	

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

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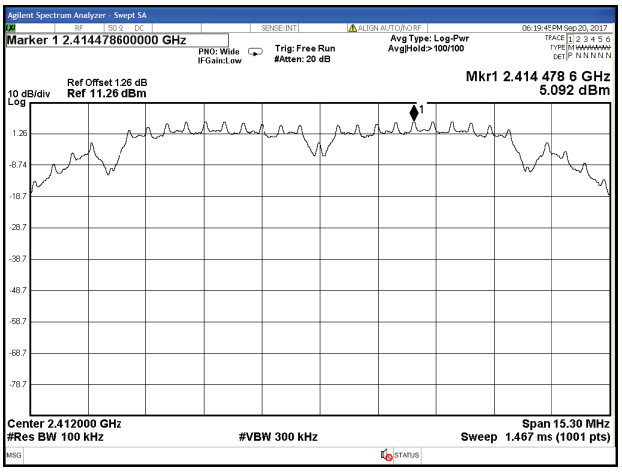
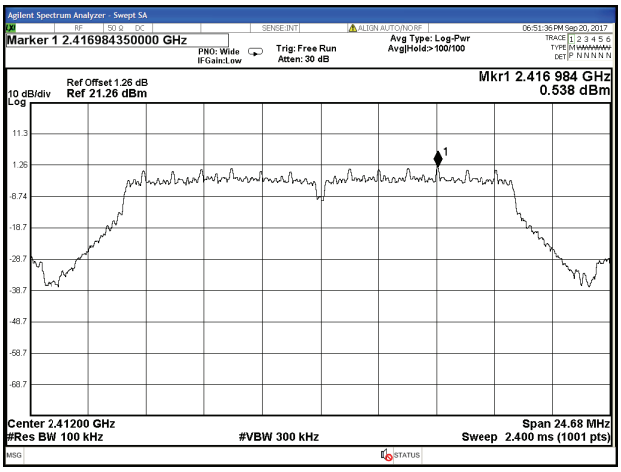
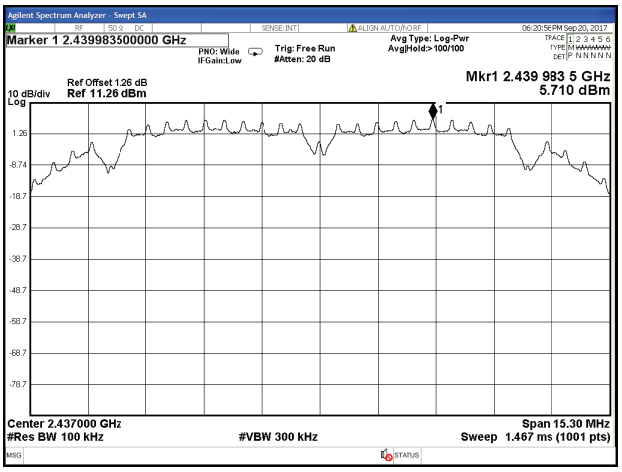
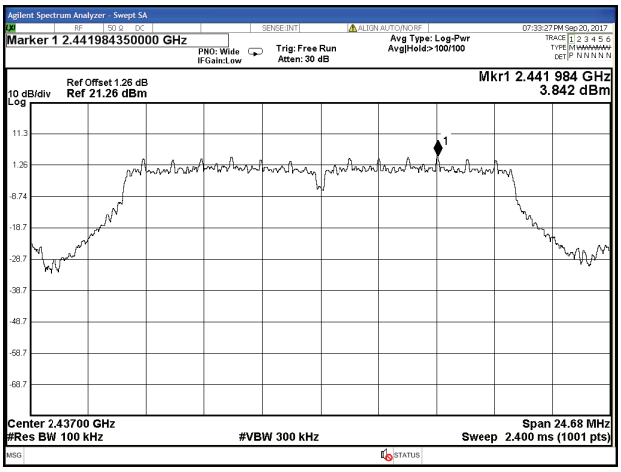
A.6.2 Measurement Plots

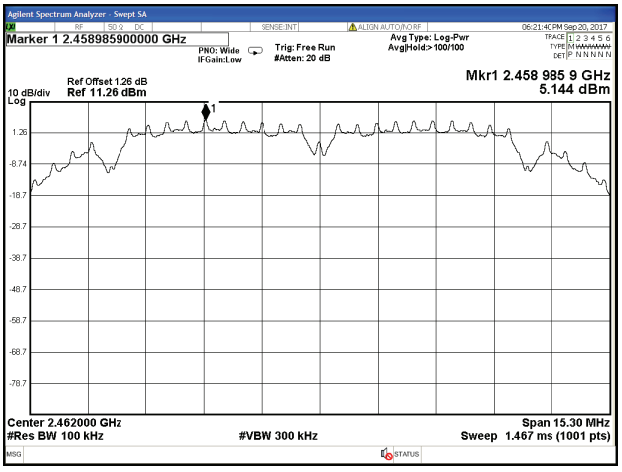
Antenna: PCB Antenna	
802.11b	802.11g

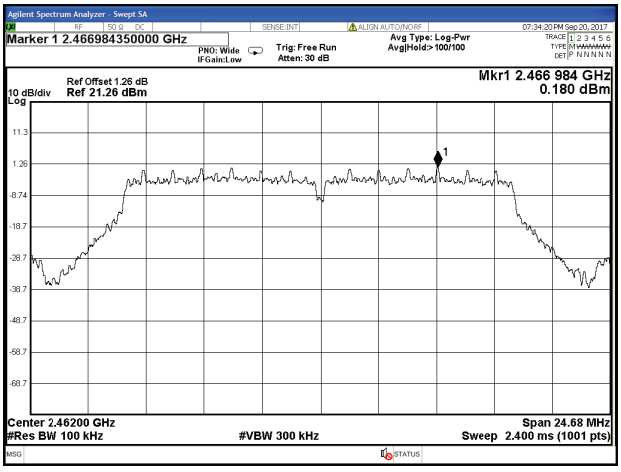












Note: All results have been included cable loss and Simultaneous Factor.

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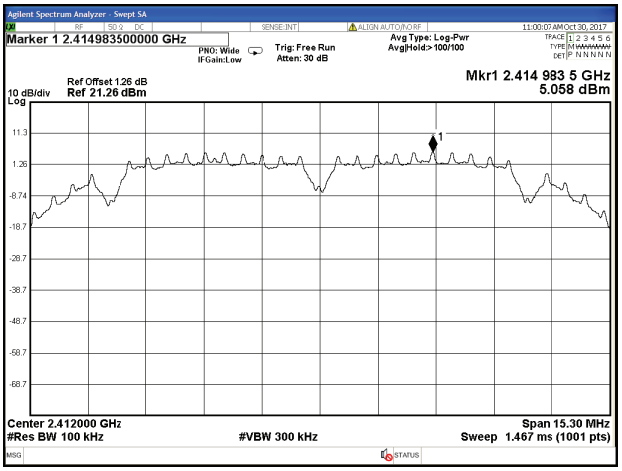
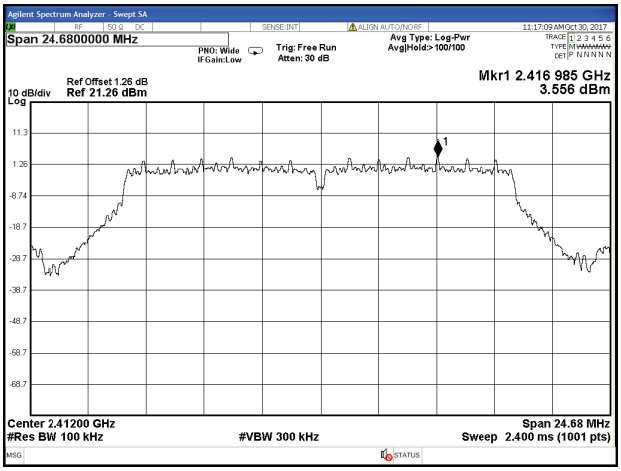
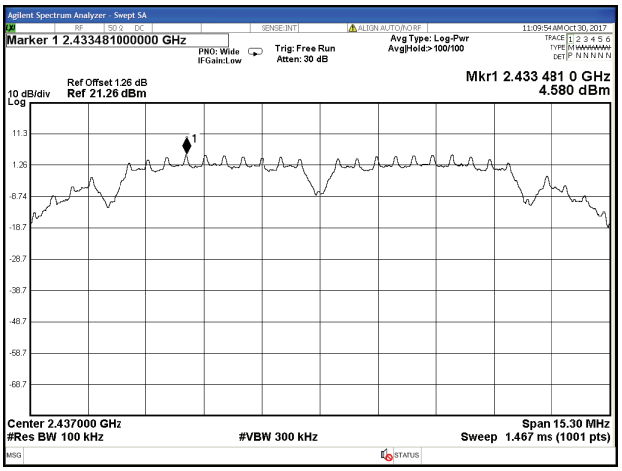
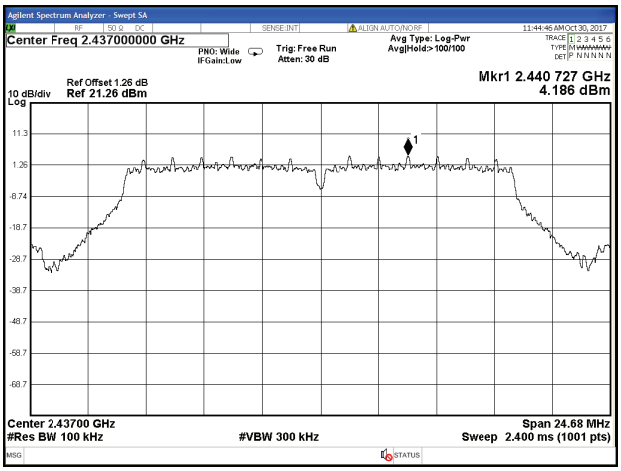
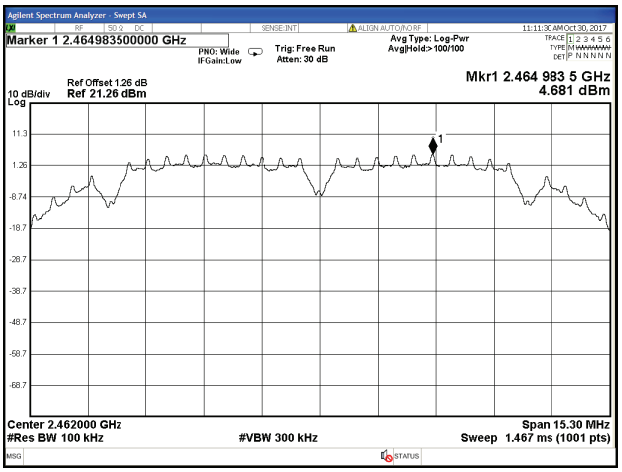
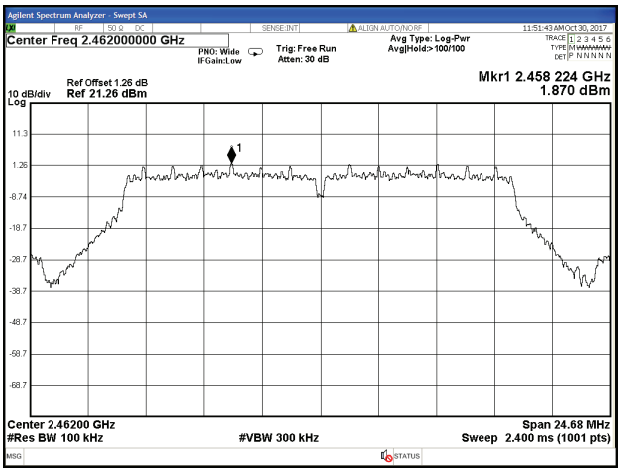
Antenna: Omni-S Antenna	
802.11b	802.11g
	
	
	

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

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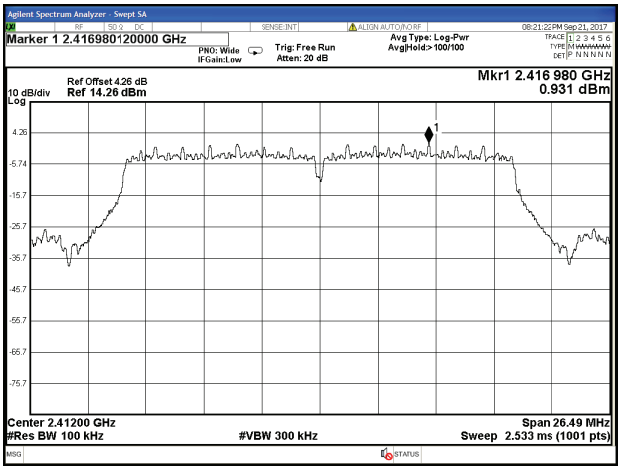
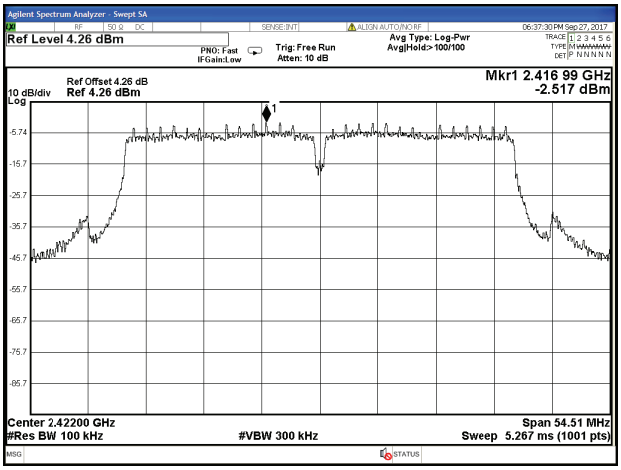
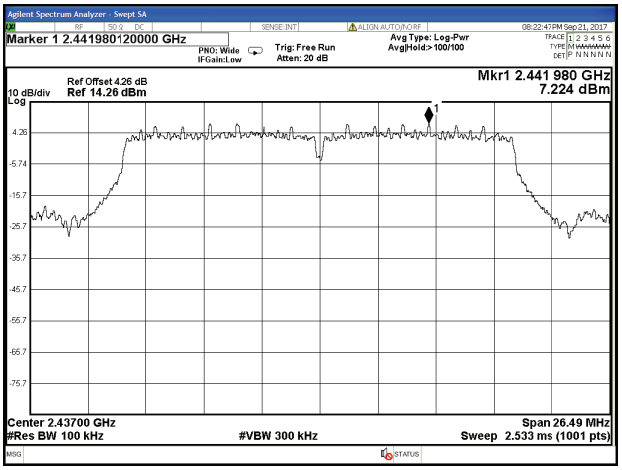
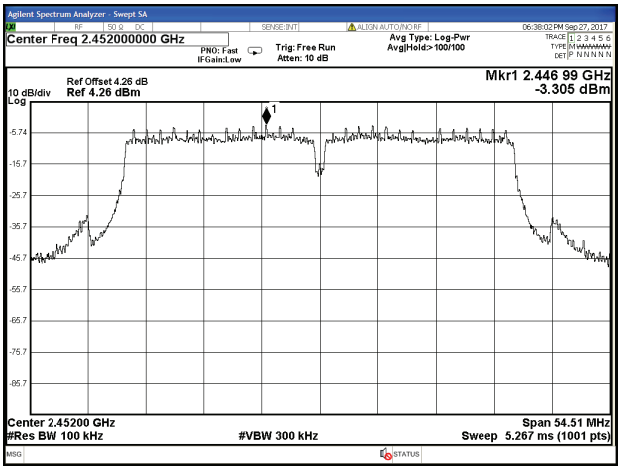
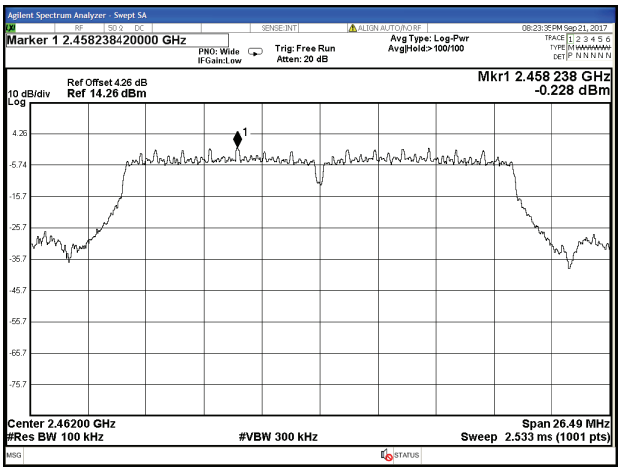
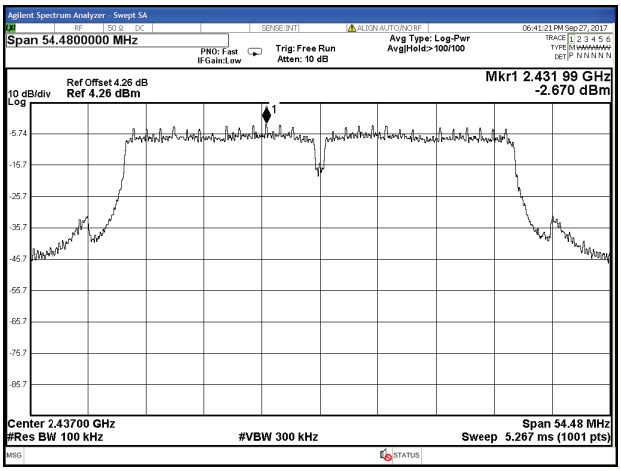
Antenna: PCB Antenna	
802.11n-HT20	802.11n-HT40
	
	
	

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

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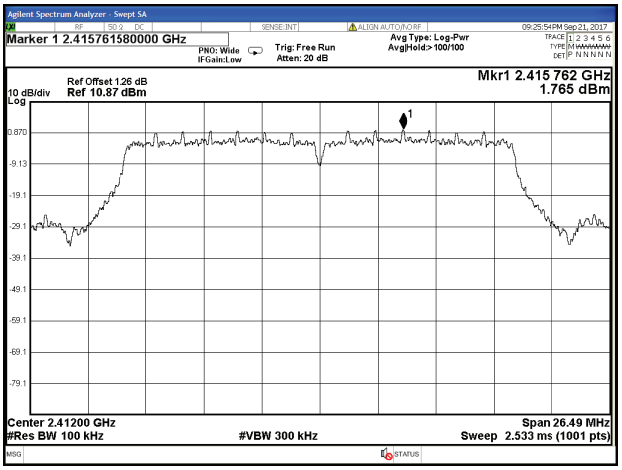
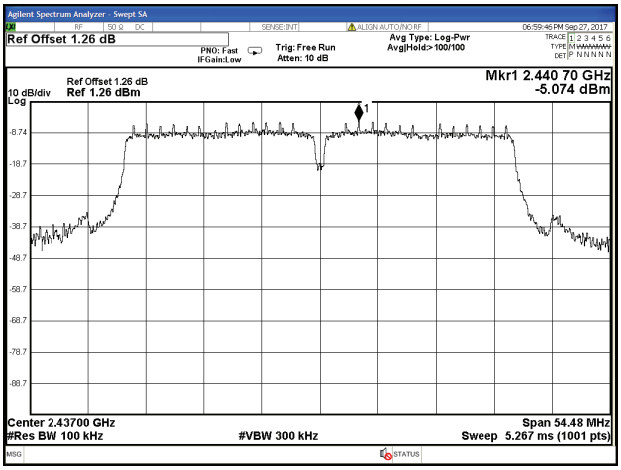
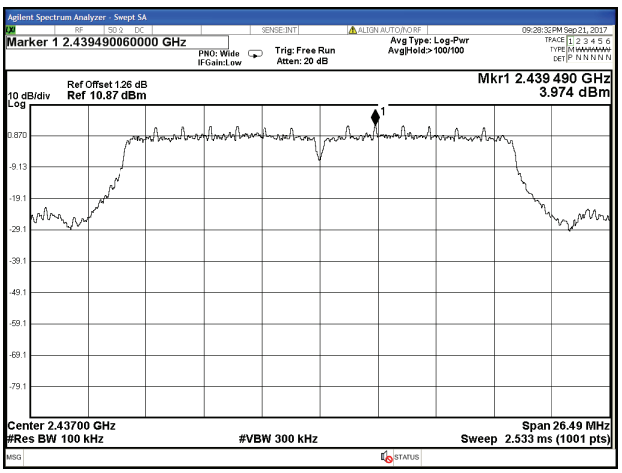
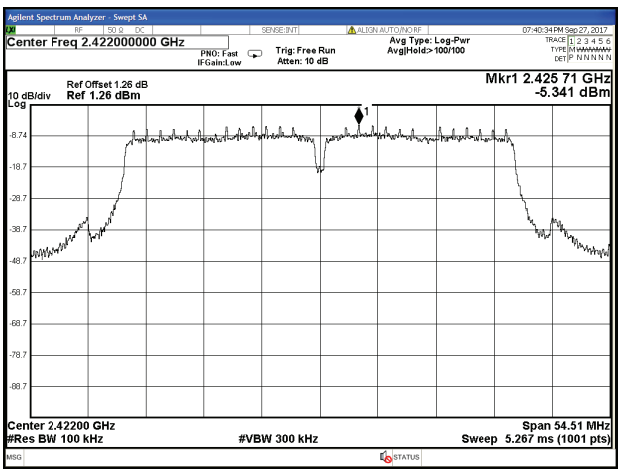
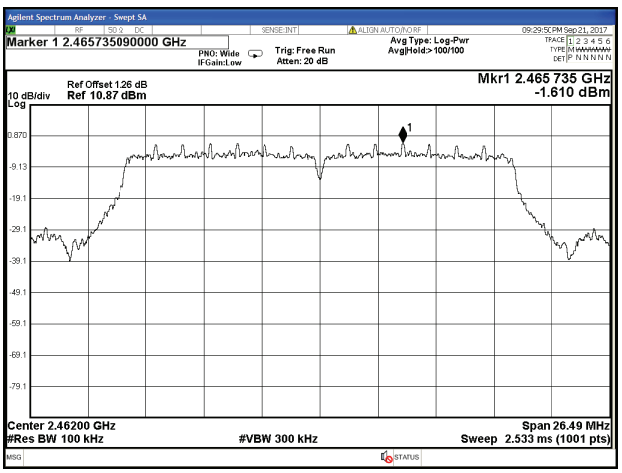
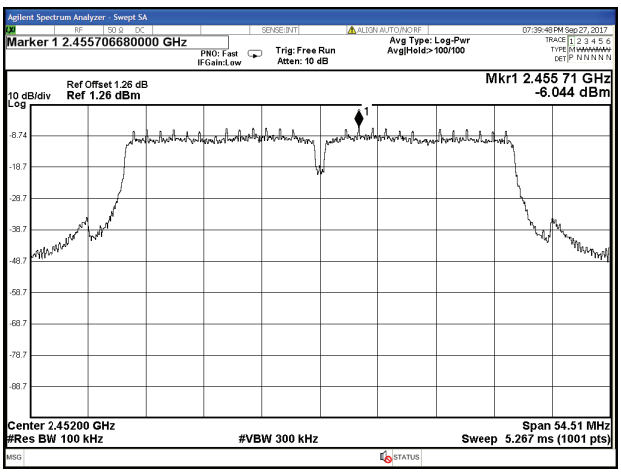
Antenna: Omni-S Antenna	
802.11n-HT20	802.11n-HT40
	
	
	

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