

FCC 15.407 NII 5 GHz Test Report

for

Datalogic S.r.l.

Via S. Vitalino 13 Calderara di Reno Italy 40012

Product Name : 802.11abgn M.2 module w/SDIO interface
Model Name : M2SD50NBT
FCC ID : U4G-RHINOIIWEC7

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



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APPENDIX A TEST DATA AND PLOTS
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TEST REPORT CERTIFICATION

Applicant : Datalogic S.r.l.
Manufacturer : LAIRD TECHNOLOGIES
EUT Description
(1) Product : 802.11abgn M.2 module w/SDIO interface
(2) Model : M2SD50NBT
(3) Rating : DC 3.3V

Applicable Standards:

47 CFR FCC Part 15 Subpart E
ANSI C63.10:2013
KDB 789033 D02 General UNII Test Procedures New Rules v01r04

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. 18

Reviewed by:  (Tina Huang/Administrator)

Approved by:  (Ben Cheng/Manager)

1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2017. 10. 18	Original Report	EM-F170642

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205	Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)(5)/15.407(e)	Emission Bandwidth Measurement	PASS
15.407(a)	Maximum Output	PASS
15.407(b)	Conducted Band Edges and Conducted Spurious Emission	PASS
15.407(a)	Power Spectral Density	PASS
15.203	Antenna Requirement	Compliance
15.407	Frequency Stability	PASS

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Datalogic S.r.l. Via S. Vitalino 13 Calderara di Reno Italy 40012
Manufacturer	LAIRD TECHNOLOGIES W66N220 Commerce Court Cedarburg WI 53012 United States Of America
Product	802.11abgn M.2 module w/SDIO interface
Model	M2SD50NBT

3.2. Description of EUT

Test Model	M2SD50NBT																																				
Serial Number	N/A																																				
Power Rating	DC 3.3V																																				
RF Features	WLAN:802.11a/b/g/n/ Bluetooth: BT and BLE																																				
Transmit Type	<table border="1"> <thead> <tr> <th colspan="2">2.4 GHz with PCB antenna</th> </tr> </thead> <tbody> <tr> <td>802.11b</td> <td>2T2R</td> </tr> <tr> <td>802.11g</td> <td>2T2R</td> </tr> <tr> <td>802.11n-HT20</td> <td>2T2R</td> </tr> <tr> <td>BT/BLE (Chain 0)</td> <td>1T1R</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">2.4 GHz with omni-s antenna</th> </tr> </thead> <tbody> <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>BT/BLE (Chain 0)</td> <td>1T1R</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">UNII Bands with PCB antenna</th> </tr> </thead> <tbody> <tr> <td>802.11a</td> <td>2T2R</td> </tr> <tr> <td>802.11n-HT20</td> <td>2T2R</td> </tr> <tr> <td>802.11n-HT40</td> <td>2T2R</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">UNII Bands with omni-s antenna</th> </tr> </thead> <tbody> <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> </tbody> </table>	2.4 GHz with PCB antenna		802.11b	2T2R	802.11g	2T2R	802.11n-HT20	2T2R	BT/BLE (Chain 0)	1T1R	2.4 GHz with omni-s antenna		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	1T1R	BT/BLE (Chain 0)	1T1R	UNII Bands with PCB antenna		802.11a	2T2R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	UNII Bands with omni-s antenna		802.11a	1T1R	802.11n-HT20	1T1R	802.11n-HT40	1T1R
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Device Category	<input type="checkbox"/> Outdoor Access Point <input type="checkbox"/> Fixed point-to-point Access Point <input type="checkbox"/> Indoor Access Point <input checked="" type="checkbox"/> Mobile and Portable client device																																				
Sample Status	Production																																				
Date of Receipt	2017. 08. 17																																				
Date of Test	2017. 09. 27 ~ 10. 18																																				
I/O Ports List	N/A																																				
Accessories Supplied	N/A																																				

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	UNII Band	Fundamental Range (MHz)	Channel Number
802.11a	I	5180-5240	4
	II-2A	5260-5320	4
	II-2C	5500-5700	11
	III	5745-5825	5
802.11n-HT20	I	5180-5240	4
	II-2A	5260-5320	4
	II-2C	5500-5700	11
	III	5745-5825	5
802.11n-HT40	I	5190-5230	2
	II-2A	5270-5310	2
	II-2C	5510-5670	5
	III	5755-5795	2

Remark: UNII Band II (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 144.4
802.11n-HT40		Up to 300

Channel List						
802.11a/802.11n-HT20						
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)	
I	36	5180	II-2C	120	5600	
	40	5200		124	5620	
	44	5220		128	5640	
	48	5240		132	5660	
II-2A	52	5260		136	5680	
	56	5280		140	5700	
	60	5300		III	149	5745
	64	5320			153	5765
II-2C	100	5500	157		5785	
	104	5520	161		5805	
	108	5540	165		5825	
	112	5560				
	116	5580				

Channel List					
802.11n-HT40					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	38	5190	II-2C	118	5590
	46	5230		126	5630
II-2A	54	5270		134	5670
	62	5310	III	151	5755
II-2C	102	5510		159	5795
	110	5550			

Note Test modes are presented at section 3.7.

3.5. Description of Key Components

None

3.6. Data Rate Relative to Output Power

802.11a (with PCB antenna)				802.11a (with omni-s antenna)				
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power(dBm)	
							Chain 0	Chain 1
36	BPSK	6	18.42	36	BPSK	6	17.18	18.42
36	QPSK	9	18.08	36	QPSK	9	17.11	18.03
36	QPSK	12	17.92	36	QPSK	12	16.88	17.99
36	16-QAM	18	17.24	36	16-QAM	18	16.64	17.53
36	16-QAM	24	17.03	36	16-QAM	24	16.46	17.10
36	64-QAM	36	16.88	36	64-QAM	36	15.74	16.54
36	64-QAM	48	16.47	36	64-QAM	48	15.54	16.32
36	64-QAM	54	16.29	36	64-QAM	54	15.21	16.18

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)	
							Chain 0	Chain 1
36	BPSK	MCS8	16.52	36	BPSK	MCS0	17.68	17.25
36	QPSK	MCS9	16.25	36	QPSK	MCS1	17.11	16.85
36	QPSK	MCS10	15.98	36	QPSK	MCS2	17.09	16.60
36	16-QAM	MCS11	15.43	36	16-QAM	MCS3	16.34	16.34
36	16-QAM	MCS12	15.06	36	16-QAM	MCS4	16.04	15.98
36	64-QAM	MCS13	15.01	36	64-QAM	MCS5	15.86	15.42
36	64-QAM	MCS14	14.77	36	64-QAM	MCS6	15.43	15.24
36	64-QAM	MCS15	14.70	36	64-QAM	MCS7	15.24	15.03

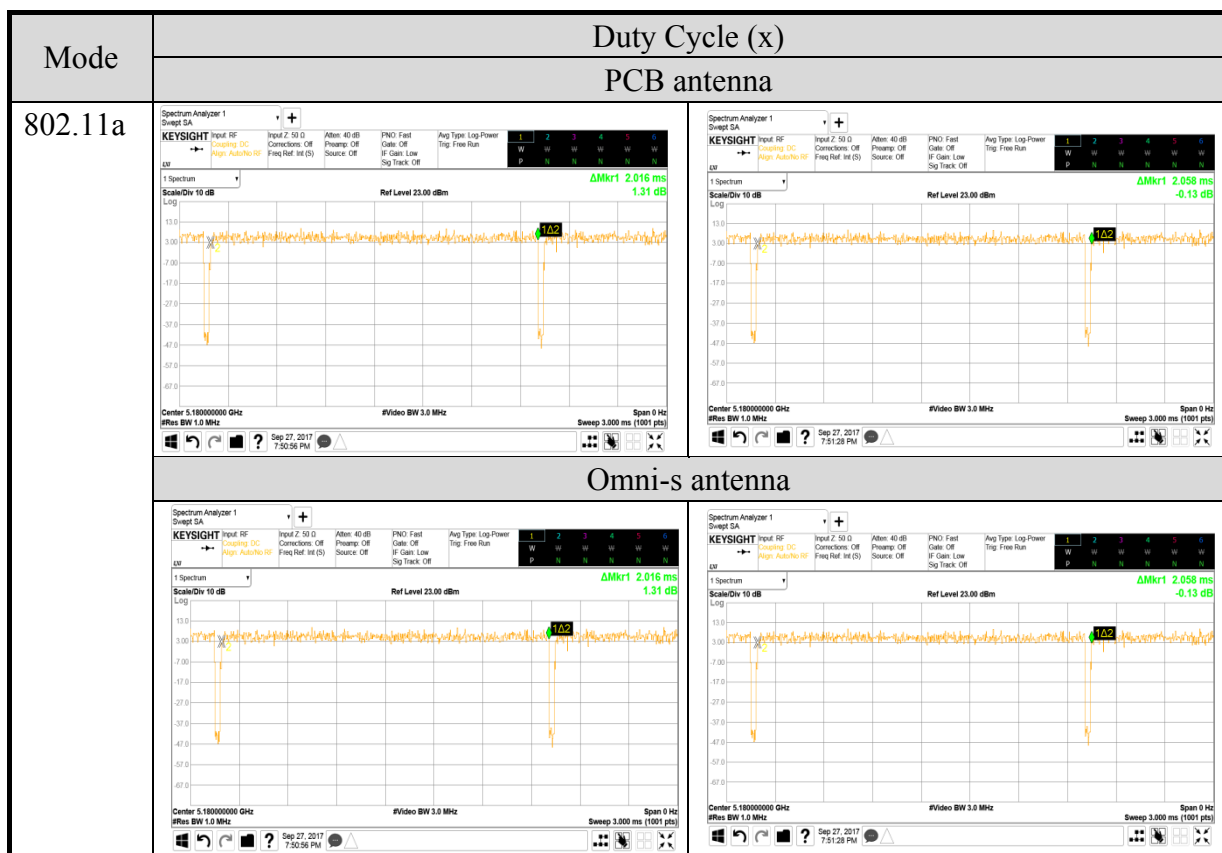
802.11n-HT40 (with PCB antenna)				802.11n-HT40 (with omni-s antenna)				
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power(dBm)	
							Chain 0	Chain 1
38	BPSK	MCS8	14.84	38	BPSK	MCS0	14.68	16.48
38	QPSK	MCS9	14.48	38	QPSK	MCS1	14.12	13.84
38	QPSK	MCS10	14.02	38	QPSK	MCS2	13.98	13.20
38	16-QAM	MCS11	13.81	38	16-QAM	MCS3	13.43	13.18
38	16-QAM	MCS12	13.46	38	16-QAM	MCS4	13.06	12.98
38	64-QAM	MCS13	13.18	38	64-QAM	MCS5	12.84	12.43
38	64-QAM	MCS14	12.84	38	64-QAM	MCS6	12.70	12.06
38	64-QAM	MCS15	12.64	38	64-QAM	MCS7	12.24	12.01

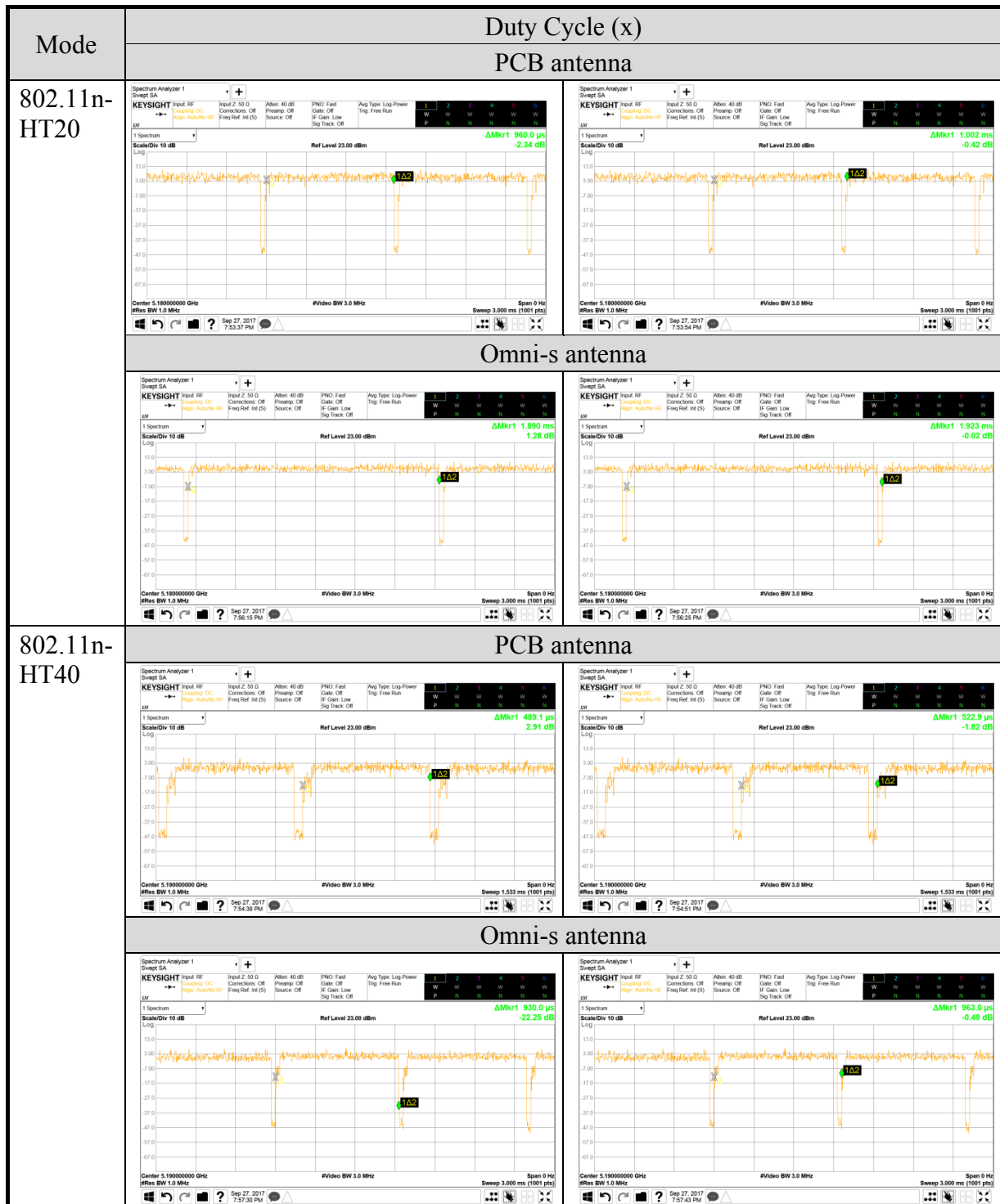
Note: Above results are assessed in average power.

3.7. Test Configuration

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
802.11a	1.00	1.00	2.016	2.016	0	0
802.11n-HT20	0.96	1.00	0.960	1.890	0.18	0
802.11n-HT40	0.93	0.97	0.489	0.930	0.32	0.13

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





AC Conduction		
Test Case	with PCB antenna	Normal operation

Item		Mode	Data Rate	Test Channel	
Radiated Test Case	Radiated Band Edge ^{Note1}	with PCB antenna	802.11a	6 Mbps	36/64/100/140
			802.11n-HT20	MCS8	36/64/100/140
			802.11n-HT40	MCS8	38/62/102/134
		with omni-s antenna	802.11a	6 Mbps	36/64/100/140
			802.11n-HT20	MCS0	36/64/100/140
			802.11n-HT40	MCS0	38/62/102/134
	Radiated Spurious Emission ^{Note1 & 2}	with PCB antenna	802.11a	6 Mbps	40/60/100/157
			802.11n-HT20	MCS8	48/60/116/165
			802.11n-HT40	MCS8	46/54/134/159
		with omni-s antenna	802.11a	6 Mbps	40/60/100/157
			802.11n-HT20	MCS0	48/60/116/165
			802.11n-HT40	MCS0	46/54/134/159
Conducted Test Case	Emission Bandwidth	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/149/157/165	
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/149/157/165	
		802.11n-HT40	MCS8	38/46/54/62/102/118/134/151/159	

Item			Mode	Data Rate	Test Channel
Conducted Test Case	Maximum output power	with PCB antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS8	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS8	38/46/54/62/ 102/118/134/151/159
		with omni-s antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS0	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS0	38/46/54/62/ 102/118/134/151/159
	Emission Limitations	with PCB antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS8	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS8	38/46/54/62/ 102/118/134/151/159
		with omni-s antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS0	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS0	38/46/54/62/ 102/118/134/151/159
	Power spectral density	with PCB antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS8	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS8	38/46/54/62/ 102/118/134/151/159
		with omni-s antenna	802.11a	6 Mbps	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT20	MCS0	36/40/48/52/60/64/ 100/116/140/149/157/165
			802.11n-HT40	MCS0	38/46/54/62/ 102/118/134/151/159

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.

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook PC	COMPAQ	Presario B1200	CNU807035Q	N/A
2.	Jig	N/A	N/A	N/A	N/A
3.	AC Adapter	COMPAQ	BS-2005	N/A	N/A

3.8.2. Cable Lists

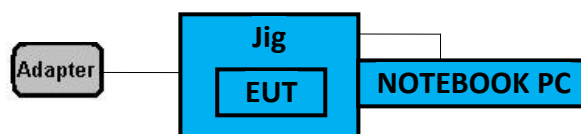
No.	Cable Description Of The Above Support Units
1.	RS232 Cable: Shielded, Detachable, 1.0m AC Adapter: hp, M/N PA-1650-02HC DC Power Cord: Unshielded, Detachable, 1.8m AC Power Cord: Unshielded, Detachable, 1.1m

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 “artgui.exe” is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

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
Emission Bandwidth	± 0.2kHz
Maximum output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

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
10.	5G Notch Filter	Microwave Circuits	N0452502	459775	2016. 12. 28	1 Year
11.	5G Notch Filter	Microwave Circuits	N0555983	459481	2017. 05. 05	1 Year
12.	5G Notch Filter	Microwave Circuits	N0257881	459776	2017. 02. 03	1 Year
13.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

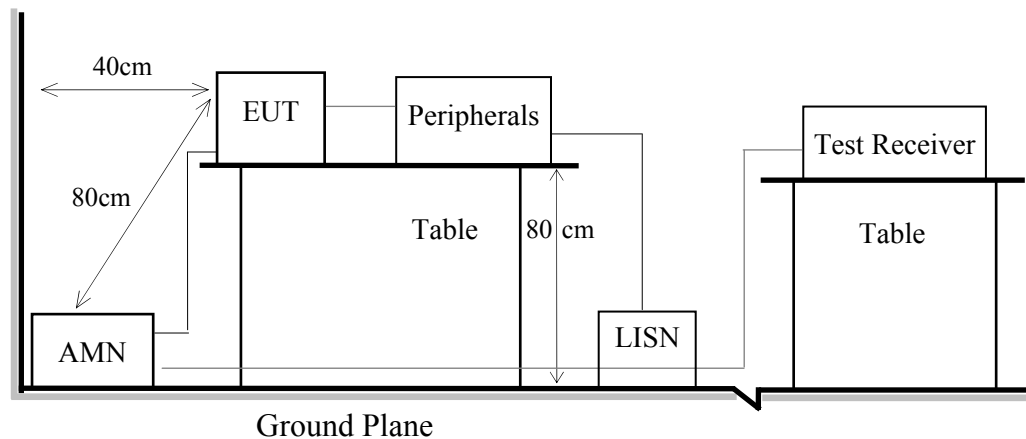
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2017. 04. 18	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2016. 10. 27	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2016. 10. 27	1 Year

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 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

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.

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.

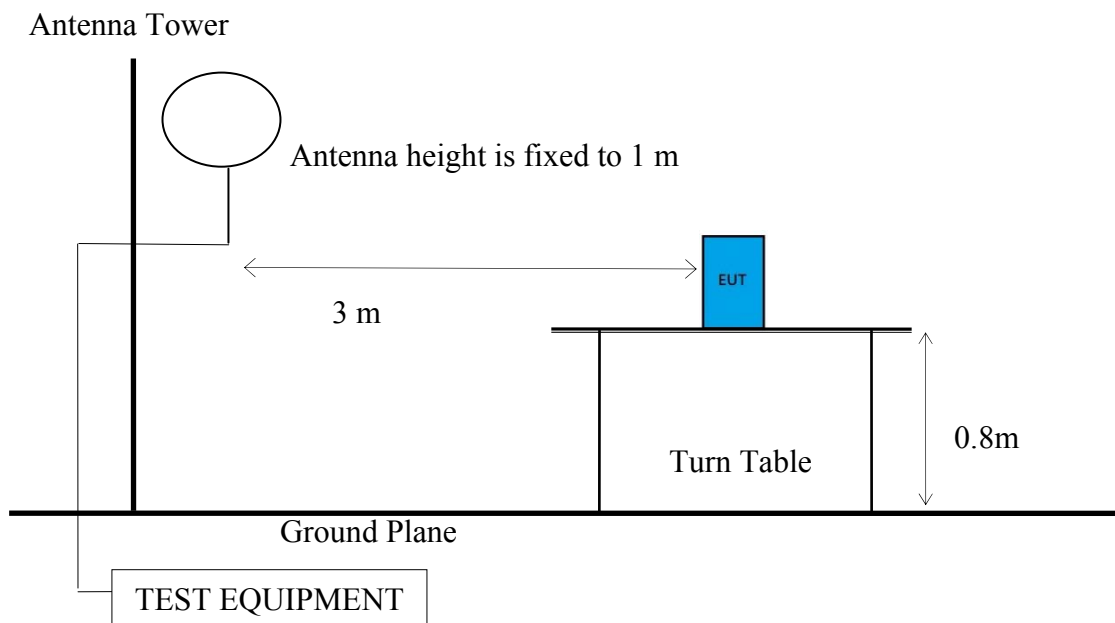
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

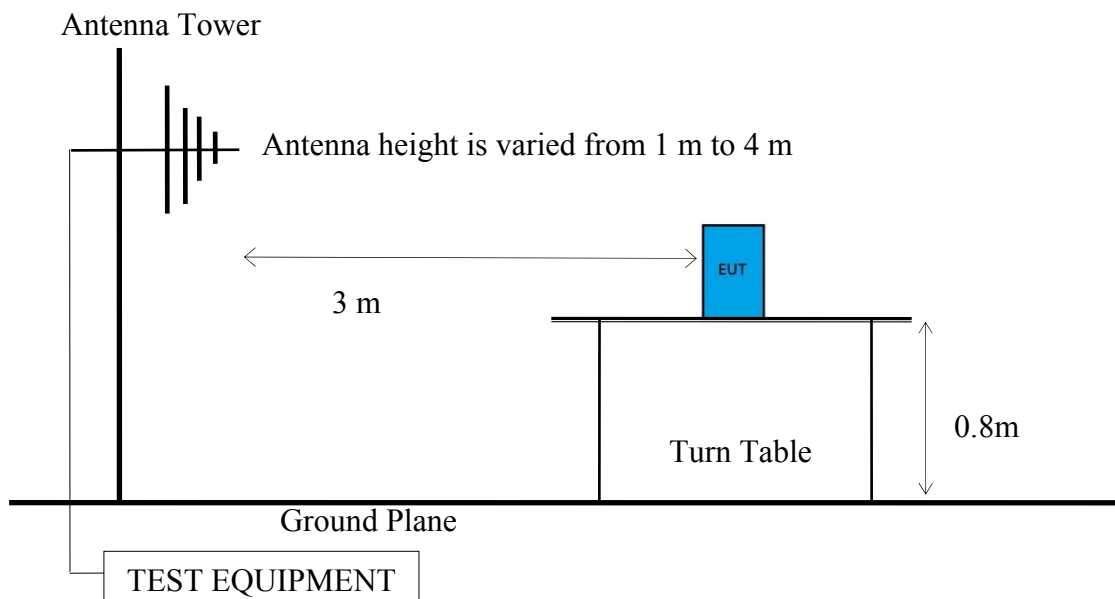
6.1.1. Block Diagram of EUT

Indicated as section 3.9

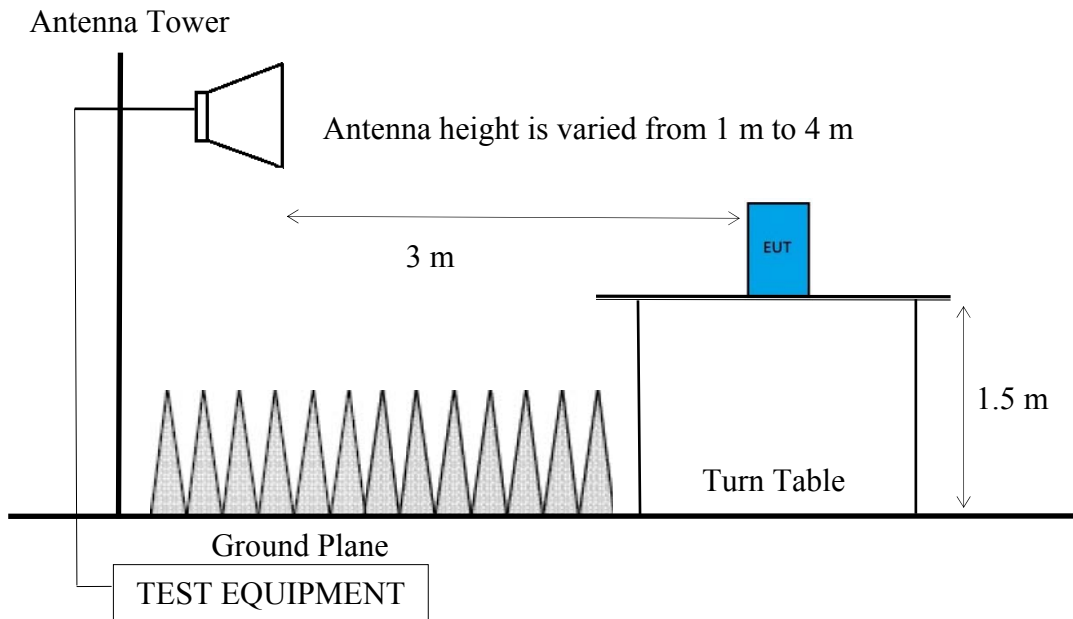
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

Radiated emissions fall in restricted bands, as defined in Section 15.205 must be in compliance with the radiated emission limits specified in 15.209 as below.

6.2.1. General Limit

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/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 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

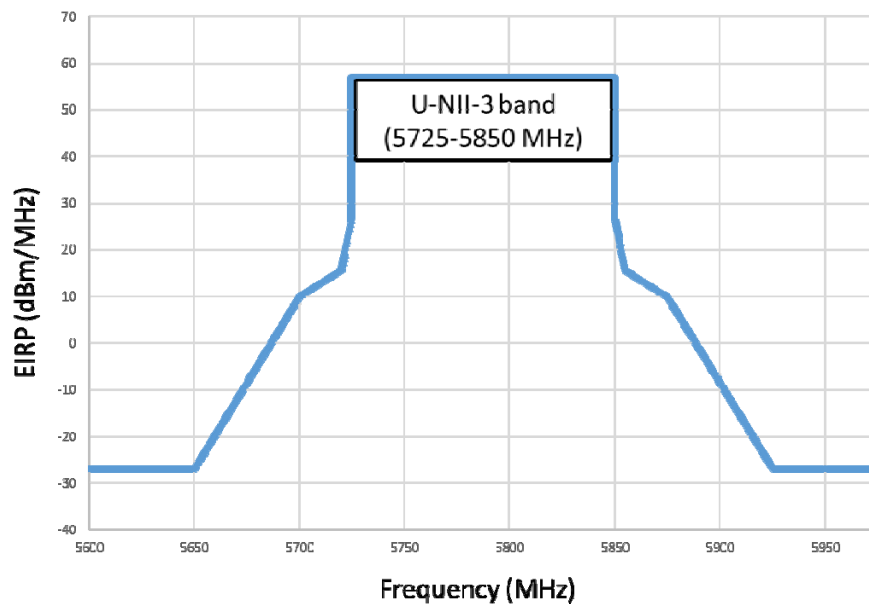
- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this 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.

6.2.2. Limit for non-restricted frequency above 1 GHz

Frequency Band (MHz)	E.I.R.P. Limit	Field Strength Limit at 3 m
5150 to 5250	-27 dBm	68.2
5250 to 5350		68.2
5470 to 5725		68.2

Note: Field Strength at 3 m= E.I.R.P. + 95.2 dB

Frequency Band (MHz)	Field Strength Limit at 3 m	
5725 to 5850	<input checked="" type="checkbox"/>	15.407(b)(4)(i) All emissions shall be limited to a level of 68.2 dBμV/m at 75 MHz or more above or below the band edge increasing linearly to 105.2dBμV/m at 25 MHz above or below the band edge increasing linearly to a level of 110.8 dBμV/m at 5 MHz above or below the band edge increasing linearly to a level of 68.2 dBμV/m at the band edge.
	<input type="checkbox"/>	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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 ~ 40GHz:

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 $\geq 3 \times$ 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 40 GHz):

Peak Detector:

- (1)RBW = 1MHz
- (2)VBW $\geq 3 \times$ 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.

Average Detector: **Option 1:**

(1)RBW = 1MHz

(2)VBW \geq 1/ T.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting (kHz)
PCB Antenna			
802.11a	2.016	0.496	10kHz
802.11n-HT20	0.960	1.042	1kHz
802.11n-HT40	0.489	2.045	2kHz
Omni-s Antenna			
802.11a	2.016	0.496	10kHz
802.11n-HT20	1.890	0.529	10kHz
802.11n-HT40	0.930	1.075	1.1kHz

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

(1)Detector = Peak.

(2)Sweep time = auto.

(3)Trace mode = max hold.

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

 Option 2:

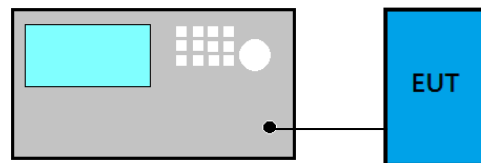
Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading Average Emission Level=Antenna Factor + Cable Loss + Meter Reading Average Emission Level= Peak Emission Level+ DCCFDuty Cycle Correction Factor (DCCF)= $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7 ERP= Peak Emission Level-95.2dB-2.14dB**6.5. Test Results**

Please refer to Appendix A.

7. EMISSION BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

Frequency Band (MHz)	Limit
5150 to 5250	Reference only
5250 to 5350	
5470 to 5725	
5725 to 5850	≥ 500kHz

7.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v01r04:

■ Applicable to all bands except to 5725 MHz- 5850 MHz

- (1) Set RBW= 1% of the emission bandwidth
- (2) Set VBW > RBW
- (3) Detector = Peak
- (4) Trace mode = max hold
- (5) Setting channel bandwidth function x dB to -26 dB to record the final bandwidth.

■ 5725 MHz- 5850 MHz

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ 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

8. MAXIMUM OUTPUT POWER

8.1. Block Diagram of Test Setup



8.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	1 W(30 dBm)/ Max e.i.r.p. ≤125 mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon
	Fixed point-to-point Access Point	1 W(30 dBm)
	Indoor Access Point	1 W(30 dBm)
	Mobile and Portable client device	250 mW(24 dBm)
5250 to 5350	N/A	250 mW or 11 dBm + 10 log B ^{Note1}
5470 to 5725		250 mW or 11 dBm + 10 log B ^{Note1}
5725 to 5850		1 W(30 dBm)

Note 1: B is the 26 dB emission bandwidth, which presented in section 7 and appendix A.1.

8.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v01r04:

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 MHz

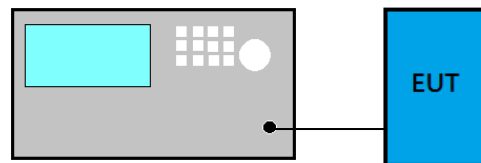
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal 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

9. EMISSION LIMITATIONS MEASUREMENT

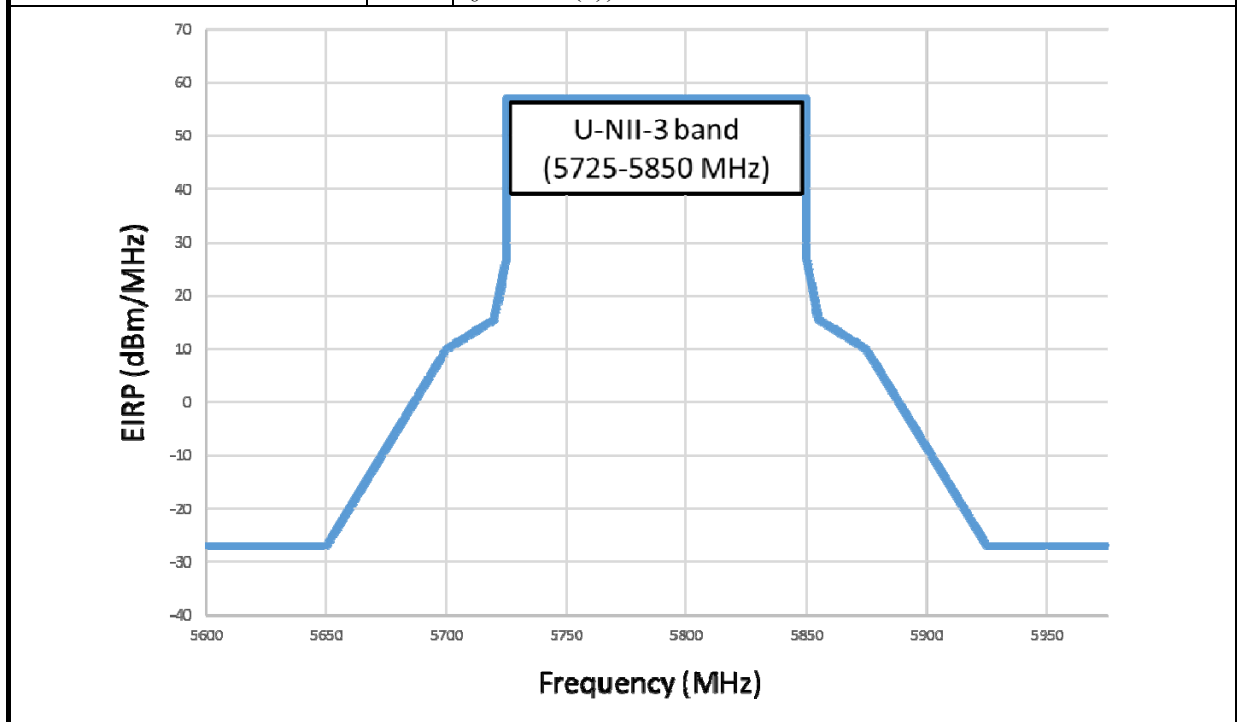
9.1. Block Diagram of Test Setup



9.2. Specification Limits

Frequency Band (MHz)	E.I.R.P. Limit
5150 to 5250	-27 dBm
5250 to 5350	
5470 to 5725	

Frequency Band (MHz)	E.I.R.P. Limit	
5725 to 5850	<input checked="" type="checkbox"/>	15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
	<input type="checkbox"/>	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



9.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v01r04:

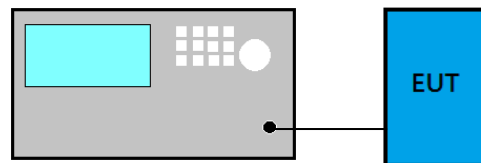
- (1) RBW = 1 MHz
- (2) VBW \geq 3 x RBW
- (3) Detector = Peak
- (4) Sweep time = auto
- (5) Trace mode = max hold
- (6) Allow sweeps to continue until the trace stabilizes.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	17dBm
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz
5250 to 5350	N/A	11 dBm/MHz
5470 to 5725		11 dBm/MHz
5725 to 5850		30dBm/500 kHz

10.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v01r04:

■ Method AVGSA-2 (Spectrum channel power)

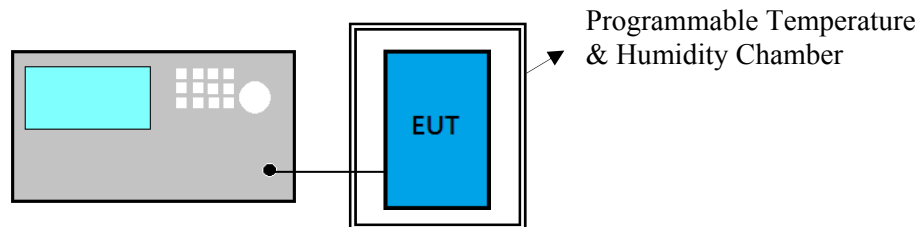
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) \geq 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Use peak search function to find out the maximum power density.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $<$ 98%.

10.4. Test Results

Please refer to Appendix A

11. FREQUENCY STABILITY

11.1. Block Diagram of Test Setup



11.2. Specification Limits

NONE

11.3. Test Procedure

- (1) Frequency: Test frequency.
- (2) Span: enough to cover the complete power envelope
- (3) RBW: 1MHz(modulation ON) ; 10KHz(CW)
- (4) VBW: 1MHz(modulation ON) ; 10KHz(CW)
- (5) Detector Mode: Positive Peak
- (6) Indication mode: Max hold
- (7) Find the peak frequency and take calculate by the formula:
(Measurement Value-declaration frequency)/ declaration frequency)

11.4. Test Results

Please refer to Appendix A

12.DEVIATION TO TEST SPECIFICATIONS

【NONE】



Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

APPENDIX A

Tel: +886 2 26099301
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APPDNDIX A

TEST DATA AND PLOTS

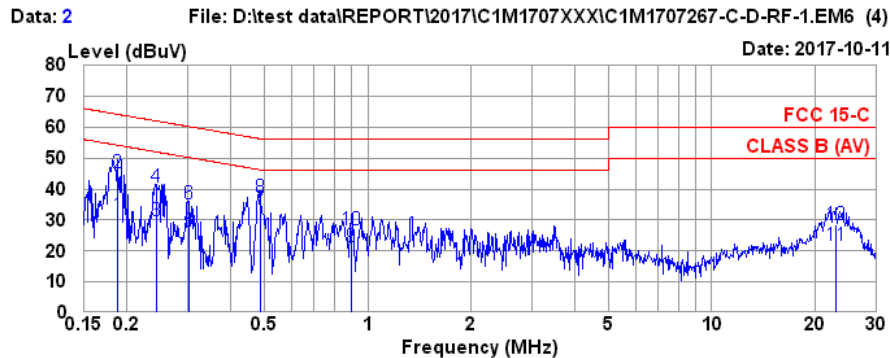
(Model: M2SD50NBT)

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A.1 CONDUCTED EMISSION

Test Date	2017/10/11	Temp./Hum.	27°C/58%
Test Voltage	DC 3.3V (though Jig via Notebook PC)		
Antenna	PCB Antenna		

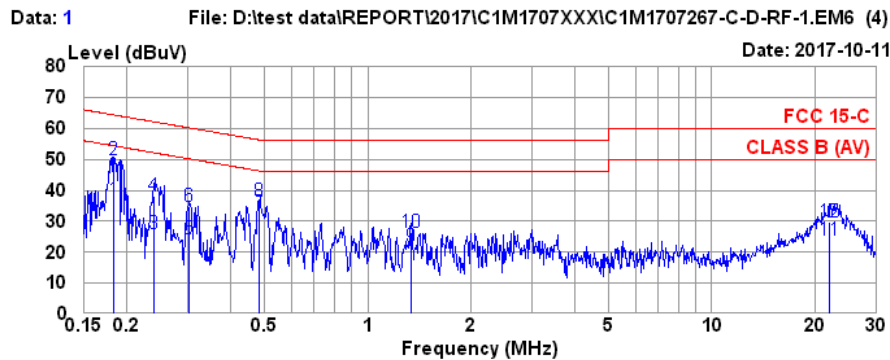


Site no. : No.7 Shielded Room Data no. : 2
 Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL
 Limit : FCC 15-C
 Env. / Ins. : 27°C / 58% ESCI(1276) Engineer : Nick Du
 EUT : M2SD50NBT
 Power Rating : DC 3.3V
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.187	0.17	0.04	9.86	21.36	31.43	54.15	22.72	Average
2	0.187	0.17	0.04	9.86	35.05	45.12	64.15	19.03	QP
3	0.243	0.18	0.04	9.86	19.75	29.83	52.00	22.17	Average
4	0.243	0.18	0.04	9.86	30.65	40.73	62.00	21.27	QP
5	0.303	0.18	0.04	9.86	16.36	26.44	50.15	23.71	Average
6	0.303	0.18	0.04	9.86	25.17	35.25	60.15	24.90	QP
7	0.486	0.20	0.04	9.86	23.55	33.65	46.23	12.58	Average
8	0.486	0.20	0.04	9.86	27.34	37.44	56.23	18.79	QP
9	0.899	0.22	0.05	9.86	11.20	21.33	46.00	24.67	Average
10	0.899	0.22	0.05	9.86	16.76	26.89	56.00	29.11	QP
11	22.896	0.96	0.32	9.96	10.42	21.66	50.00	28.34	Average
12	22.896	0.96	0.32	9.96	17.22	28.46	60.00	31.54	QP

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

Test Date	2017/10/11	Temp./Hum.	27°C/58%
Test Voltage	DC 3.3V (though Jig via Notebook PC)		
Antenna	PCB Antenna		



Data: 1 File: D:\test data\REPORT\2017\1M1707XX\1M1707267-C-D-RF-1.EM6 (4) Date: 2017-10-11

Site no. : No.7 Shielded Room Data no. : 1
 Condition : ESH2-Z5 366(ADAPTER) Phase : LINE
 Limit : FCC 15-C
 Env. / Ins. : 27°C / 58% ESCI(1276) Engineer : Nick Du
 EUT : M2SD50NBT
 Power Rating : DC 3.3V
 Test Mode : Operaing

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.182	0.17	0.04	9.86	26.99	37.06	54.37	17.31	Average
2	0.182	0.17	0.04	9.86	39.59	49.66	64.37	14.71	QP
3	0.239	0.17	0.04	9.86	15.88	25.95	52.13	26.18	Average
4	0.239	0.17	0.04	9.86	28.14	38.21	62.13	23.92	QP
5	0.303	0.17	0.04	9.86	14.28	24.35	50.15	25.80	Average
6	0.303	0.17	0.04	9.86	24.65	34.72	60.15	25.43	QP
7	0.484	0.19	0.04	9.86	22.71	32.80	46.27	13.47	Average
8	0.484	0.19	0.04	9.86	26.24	36.33	56.27	19.94	QP
9	1.338	0.23	0.06	9.86	11.71	21.86	46.00	24.14	Average
10	1.338	0.23	0.06	9.86	16.41	26.56	56.00	29.44	QP
11	21.946	1.16	0.31	9.96	12.40	23.83	50.00	26.17	Average
12	21.946	1.16	0.31	9.96	18.32	29.75	60.00	30.25	QP

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

A.2 RADIATED EMISSION

Test Date	2017/10/17	Temp./Hum.	24°C/51%
Test Voltage	DC 3.3V (though Jig 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	802.11a	UNII Band	I
		Frequency	TX 5200MHz

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
42.61	18.17	1.44	3.82	23.43	40.00	16.57	Peak
101.78	17.60	2.29	6.93	26.82	43.50	16.68	Peak
280.26	19.36	4.12	20.98	44.46	46.00	1.54	Peak
373.38	21.44	5.26	9.36	36.06	46.00	9.94	Peak
497.54	23.12	6.41	4.73	34.26	46.00	11.74	Peak
985.45	27.69	8.74	1.49	37.92	54.00	16.08	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
42.61	18.17	1.44	17.27	36.88	40.00	3.12	Peak
126.03	18.50	2.57	11.71	32.78	43.50	10.72	Peak
278.32	19.35	4.10	13.46	36.91	46.00	9.09	Peak
499.48	23.14	6.42	6.77	36.33	46.00	9.67	Peak
844.80	26.33	7.87	3.08	37.28	46.00	8.72	Peak
970.90	27.56	8.65	1.04	37.25	54.00	16.75	Peak

● Antenna: Omni-S Antenna

Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
42.61	18.17	1.44	7.12	26.73	40.00	13.27	Peak
101.78	17.60	2.29	7.02	26.91	43.50	16.59	Peak
278.32	19.35	4.10	21.25	44.70	46.00	1.30	Peak
497.54	23.12	6.41	5.22	34.75	46.00	11.25	Peak
745.86	25.36	7.33	2.10	34.79	46.00	11.21	Peak
989.33	27.73	8.76	2.12	38.61	54.00	15.39	Peak

Antenna at Vertical Polarization

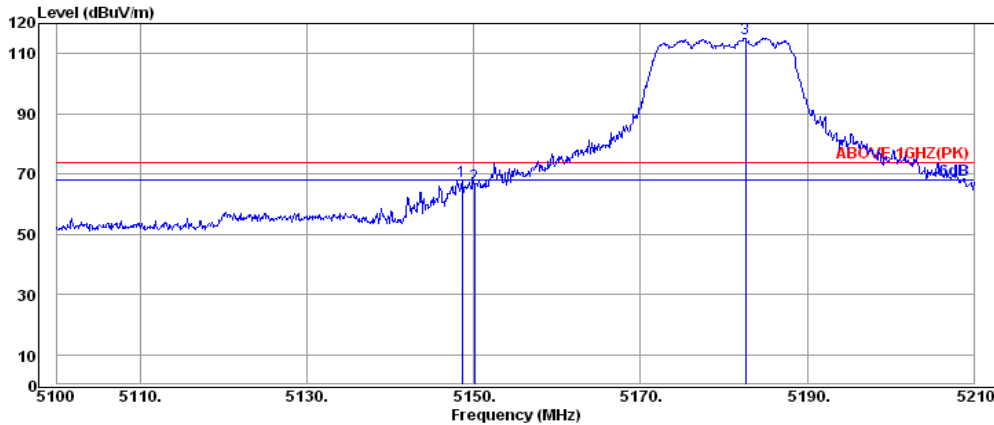
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
42.61	18.17	1.44	18.64	38.25	40.00	1.75	Peak
126.03	18.50	2.57	10.81	31.88	43.50	11.62	Peak
278.32	19.35	4.10	13.99	37.44	46.00	8.56	Peak
499.48	23.14	6.42	6.46	36.02	46.00	9.98	Peak
886.51	26.70	8.10	2.13	36.93	46.00	9.07	Peak
988.36	27.73	8.76	1.17	37.66	54.00	16.34	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

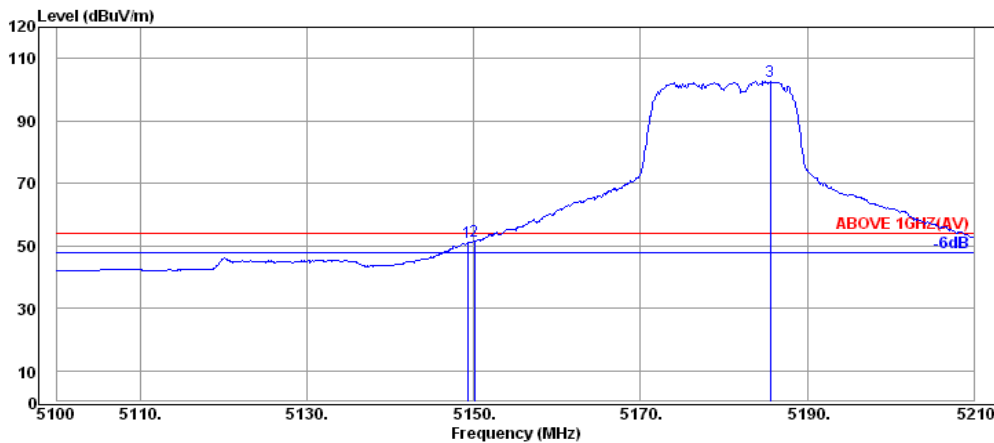
- **Antenna: PCB Antenna**

Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Horizontal Polarization

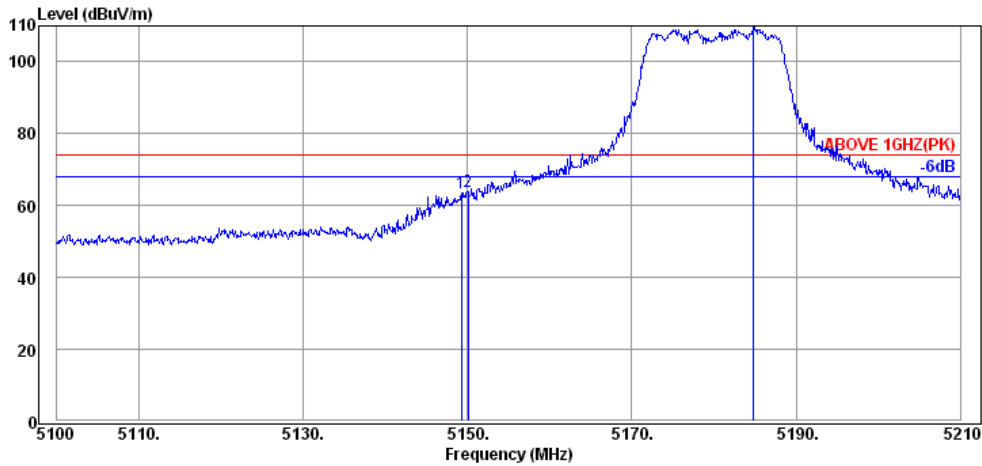
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.62	34.45	9.83	23.47	67.75	74.00	6.25	Peak
5150.05	34.45	9.83	22.29	66.57	74.00	7.43	Peak
5182.61	34.48	9.88	70.80	115.16	---	---	Peak



Antenna at Horizontal Polarization

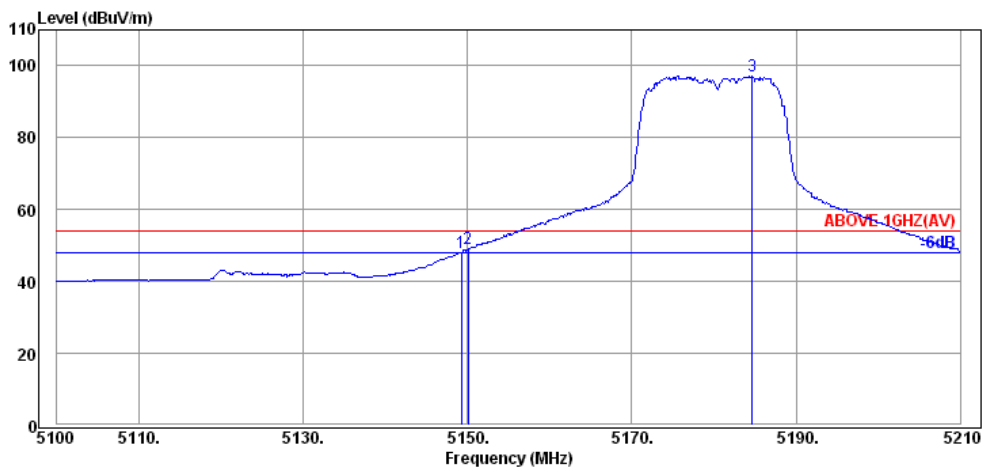
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.28	34.45	9.83	6.71	50.99	54.00	3.01	Average
5150.05	34.45	9.83	7.12	51.40	54.00	2.60	Average
5185.58	34.48	9.88	58.29	102.65	---	---	Average

Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Vertical Polarization

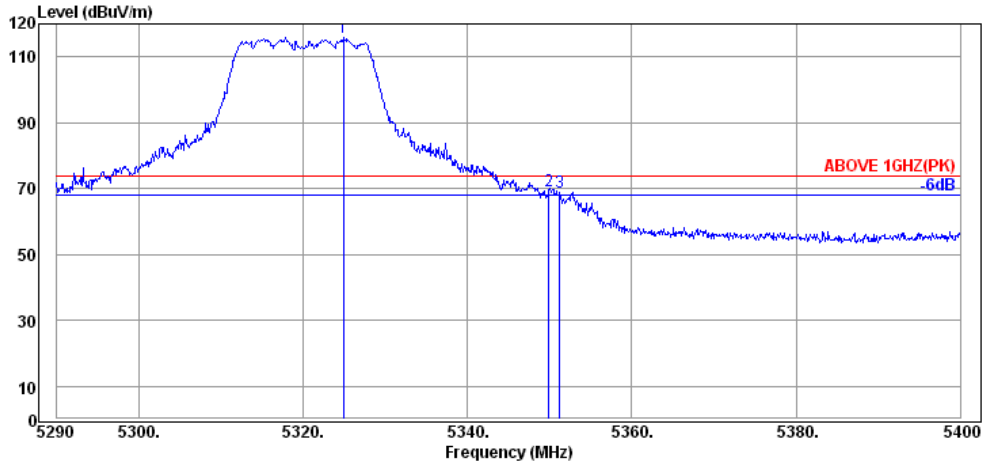
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.28	34.45	9.83	19.23	63.51	74.00	10.49	Peak
5150.05	34.45	9.83	19.47	63.75	74.00	10.25	Peak
5184.81	34.48	9.88	65.28	109.64	---	---	Peak



Antenna at Vertical Polarization

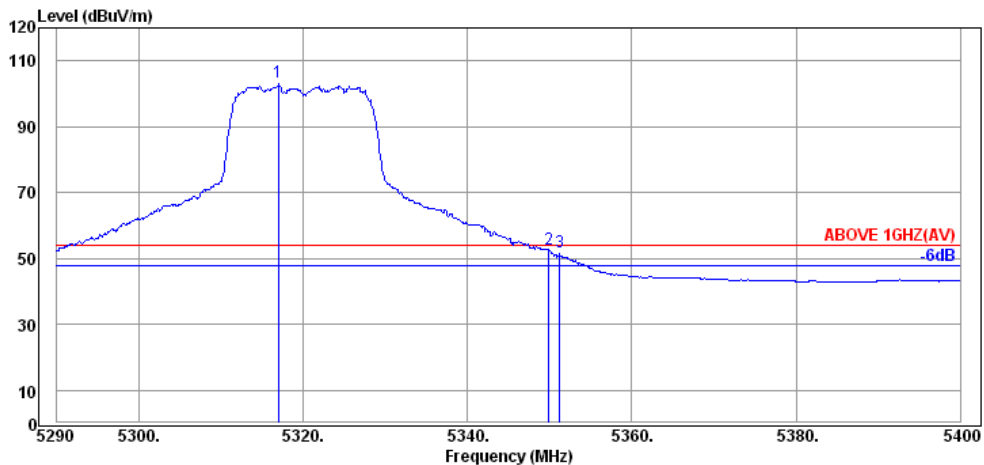
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.28	34.45	9.83	3.91	48.19	54.00	5.81	Average
5150.05	34.45	9.83	4.68	48.96	54.00	5.04	Average
5184.70	34.48	9.88	52.83	97.19	---	---	Average

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Horizontal Polarization

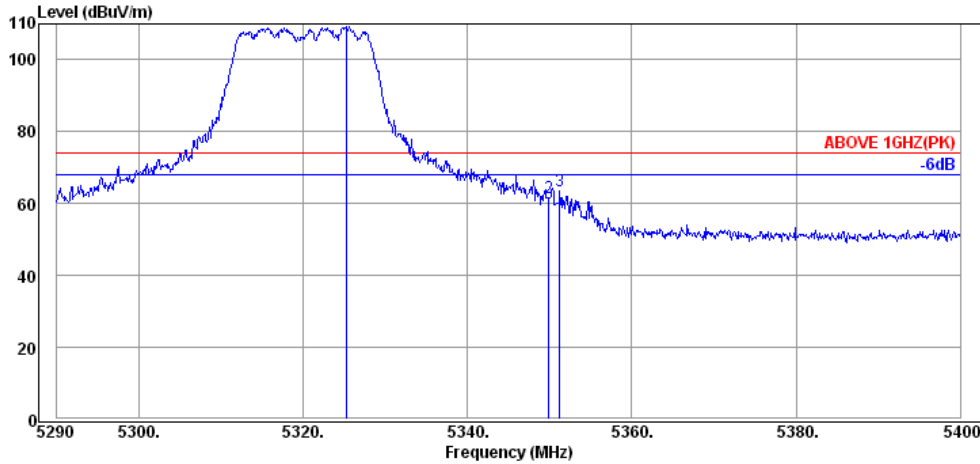
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5324.87	34.62	10.08	71.08	115.78	---	---	Peak
5349.95	34.65	10.13	24.29	69.07	74.00	4.93	Peak
5351.27	34.65	10.13	23.99	68.77	74.00	5.23	Peak



Antenna at Horizontal Polarization

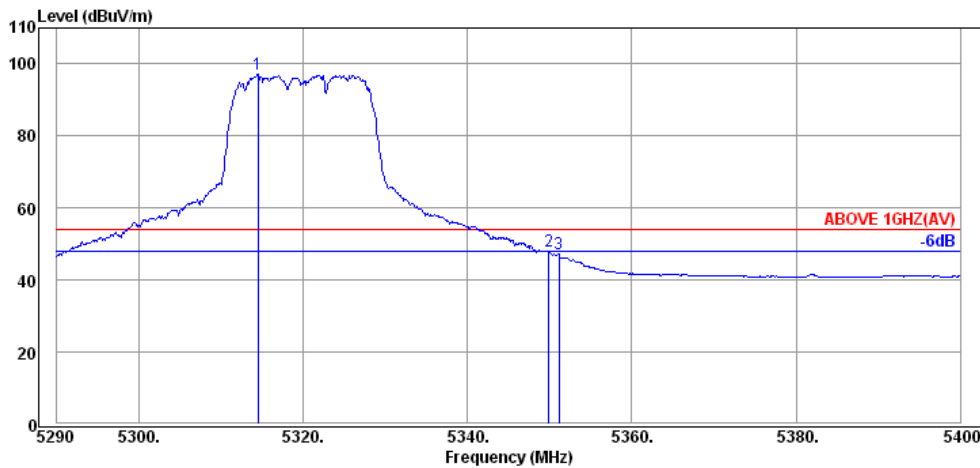
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5316.95	34.62	10.08	58.75	103.45	---	---	Average
5349.95	34.65	10.13	7.90	52.68	54.00	1.32	Average
5351.27	34.65	10.13	6.99	51.77	54.00	2.23	Average

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Vertical Polarization

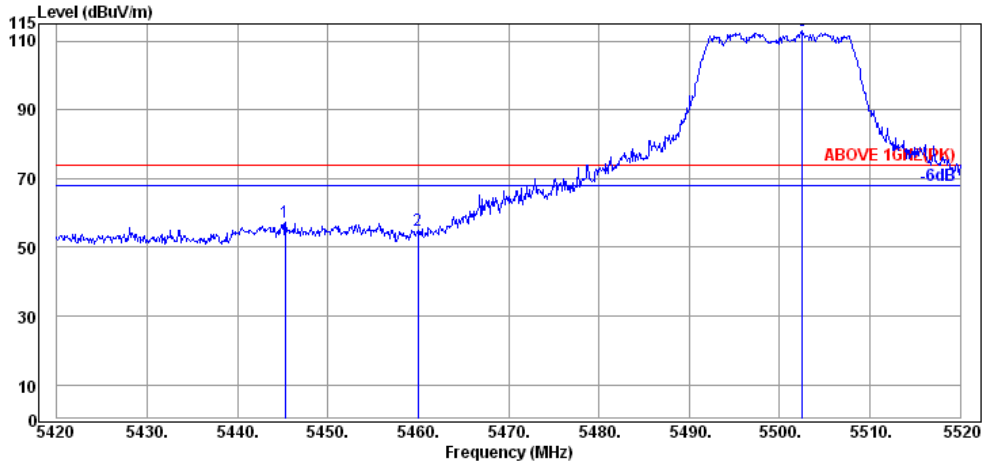
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5325.20	34.62	10.08	64.52	109.22	---	---	Peak
5349.95	34.65	10.13	16.96	61.74	74.00	12.26	Peak
5351.27	34.65	10.13	18.68	63.46	74.00	10.54	Peak



Antenna at Vertical Polarization

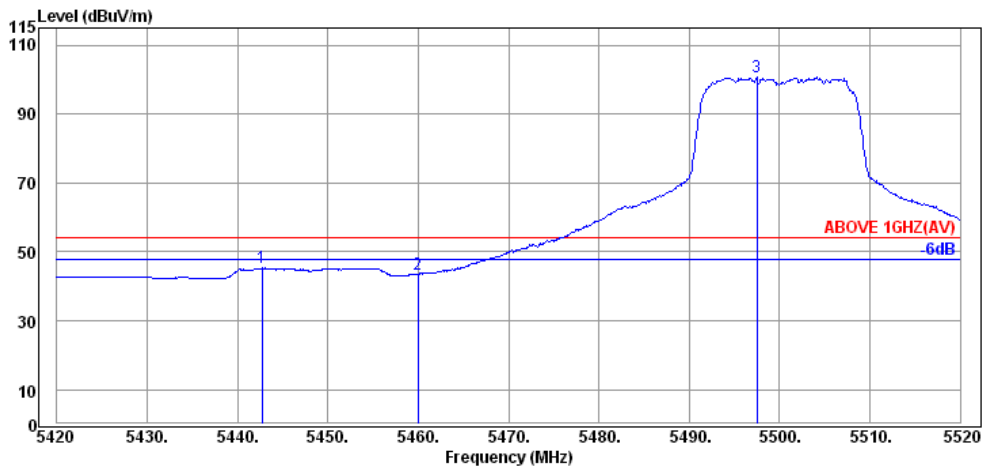
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5314.53	34.62	10.08	52.53	97.23	---	---	Average
5349.95	34.65	10.13	3.41	48.19	54.00	5.81	Average
5351.16	34.65	10.13	2.32	47.10	54.00	6.90	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Horizontal Polarization

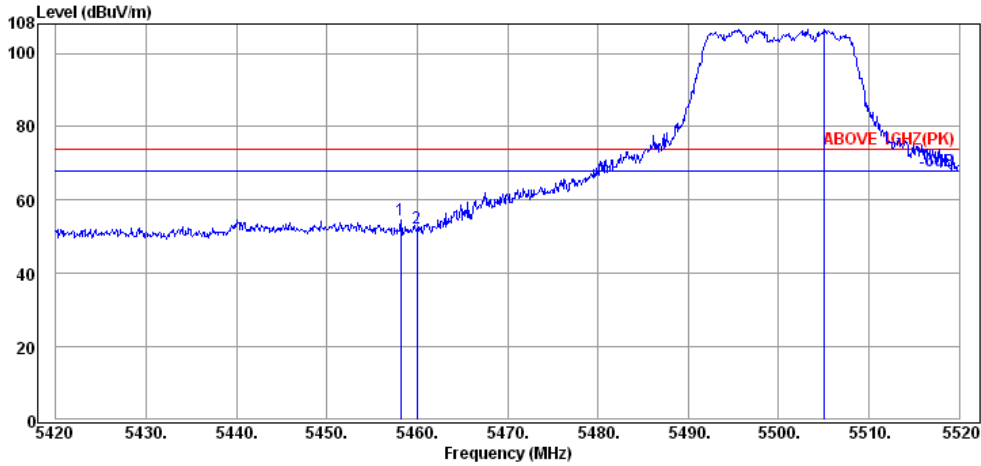
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5445.30	34.73	10.25	12.41	57.39	74.00	16.61	Peak
5460.00	34.75	10.28	9.72	54.75	74.00	19.25	Peak
5502.50	34.80	10.35	67.72	112.87	---	---	Peak



Antenna at Horizontal Polarization

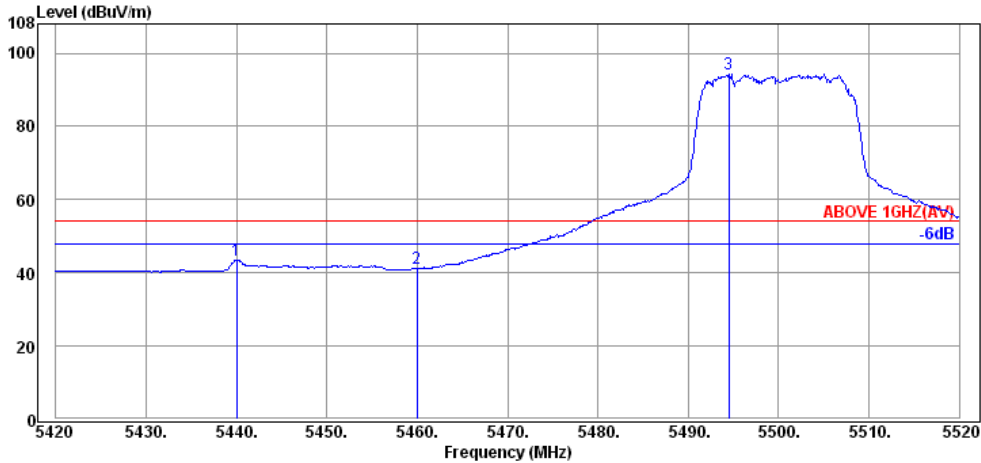
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5442.70	34.73	10.25	0.32	45.30	54.00	8.70	Average
5460.00	34.75	10.28	-1.38	43.65	54.00	10.35	Average
5497.50	34.80	10.35	55.51	100.66	---	---	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Vertical Polarization

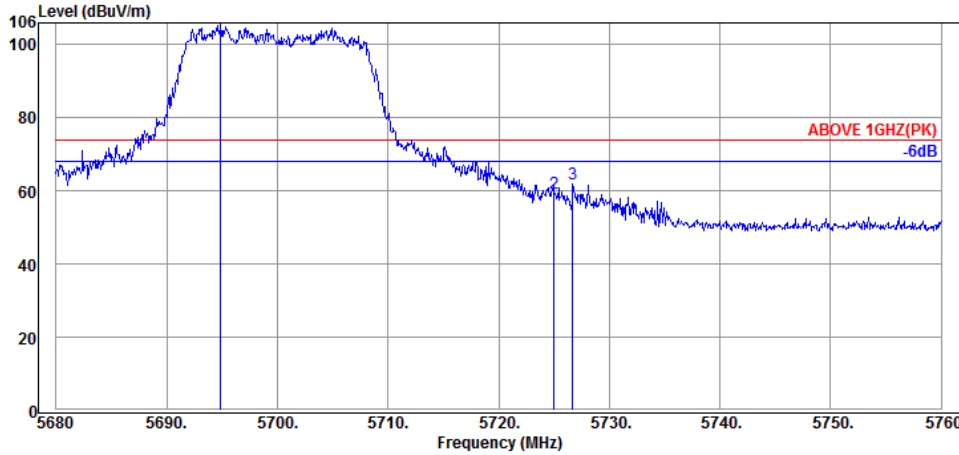
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.20	34.75	10.28	9.38	54.41	74.00	19.59	Peak
5460.00	34.75	10.28	7.44	52.47	74.00	21.53	Peak
5505.10	34.80	10.35	61.44	106.59	---	---	Peak



Antenna at Vertical Polarization

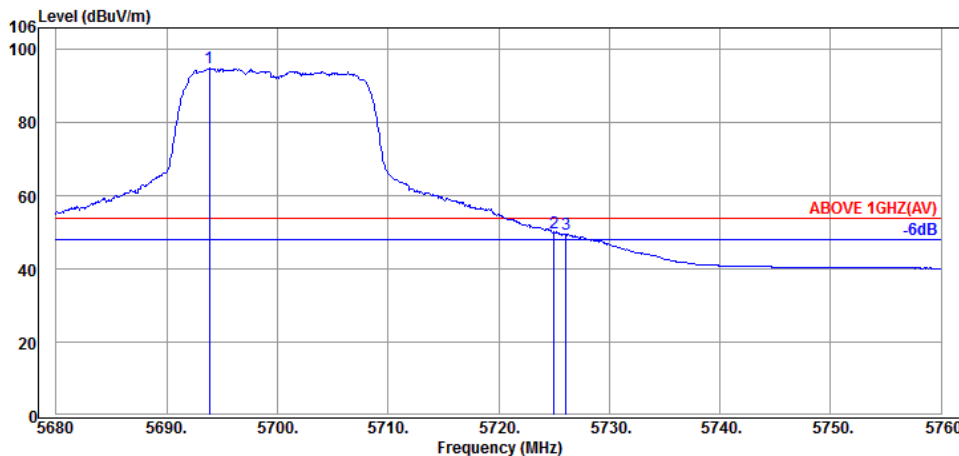
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.00	34.73	10.25	-1.46	43.52	54.00	10.48	Average
5460.00	34.75	10.28	-3.65	41.38	54.00	12.62	Average
5494.50	34.78	10.33	49.06	94.17	---	---	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Horizontal Polarization

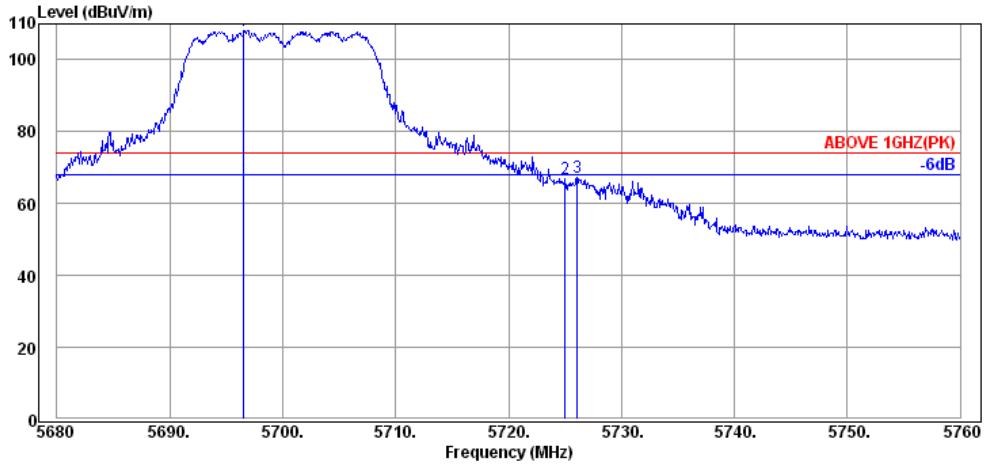
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5694.88	35.03	10.50	59.93	105.46	74.00	---	Peak
5725.04	35.07	10.52	13.61	59.20	74.00	14.80	Peak
5726.72	35.07	10.52	16.50	62.09	74.00	11.91	Peak



Antenna at Horizontal Polarization

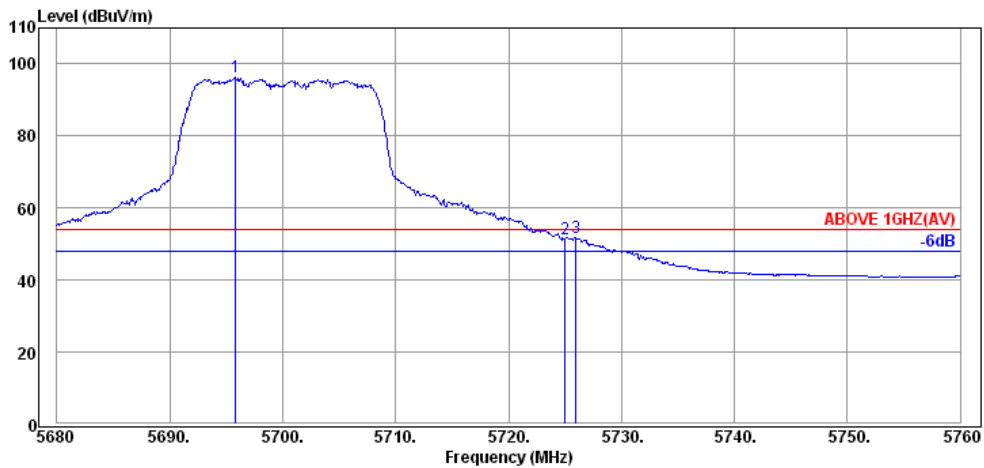
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5693.84	35.03	10.50	49.47	95.00	54.00	---	Average
5725.04	35.07	10.52	4.39	49.98	54.00	4.02	Average
5726.08	35.07	10.52	3.89	49.48	54.00	4.52	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Vertical Polarization

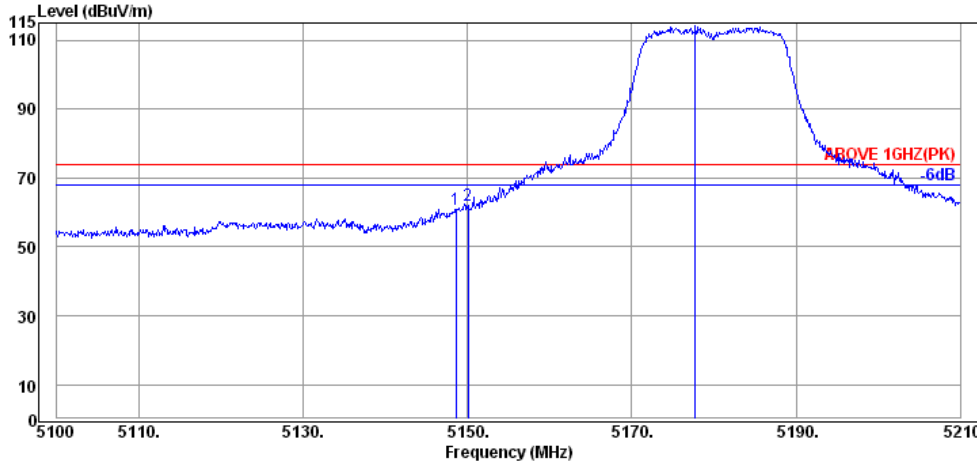
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5696.56	35.03	10.50	62.52	108.05	74.00	---	Peak
5725.04	35.07	10.52	21.34	66.93	74.00	7.07	Peak
5726.08	35.07	10.52	21.56	67.15	74.00	6.85	Peak



Antenna at Vertical Polarization

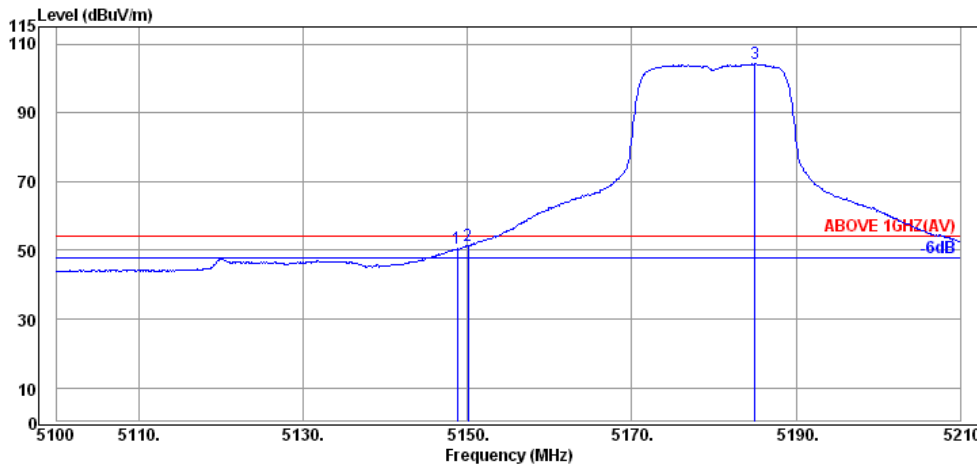
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.84	35.03	10.50	50.72	96.25	54.00	---	Average
5725.04	35.07	10.52	5.91	51.50	54.00	2.50	Average
5726.00	35.07	10.52	6.33	51.92	54.00	2.08	Average

Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Horizontal Polarization

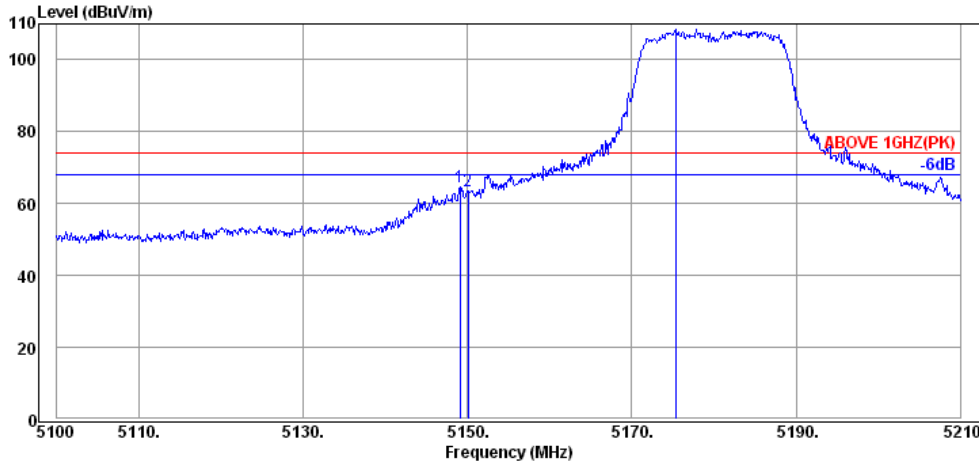
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.62	34.45	9.83	16.72	61.00	74.00	13.00	Peak
5150.05	34.45	9.83	17.70	61.98	74.00	12.02	Peak
5177.77	34.48	9.88	69.96	114.32	---	---	Peak



Antenna at Horizontal Polarization

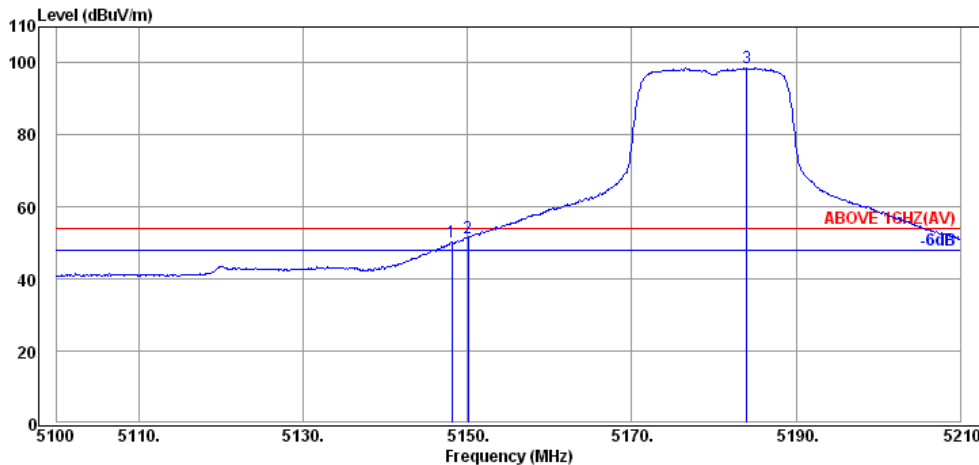
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.73	34.45	9.83	6.15	50.43	54.00	3.57	Average
5150.05	34.45	9.83	7.13	51.41	54.00	2.59	Average
5185.03	34.48	9.88	59.91	104.27	---	---	Average

Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Vertical Polarization

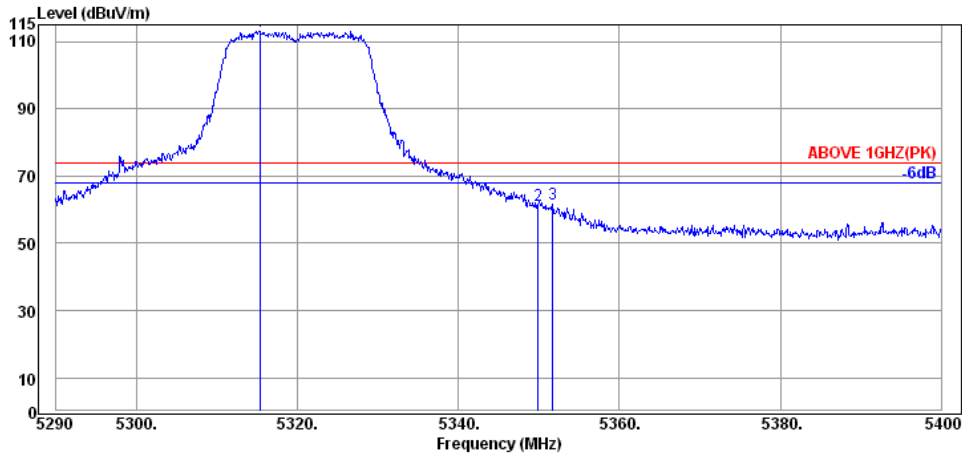
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.06	34.45	9.83	20.50	64.78	74.00	9.22	Peak
5150.05	34.45	9.83	19.10	63.38	74.00	10.62	Peak
5175.35	34.48	9.88	64.13	108.49	---	---	Peak



Antenna at Vertical Polarization

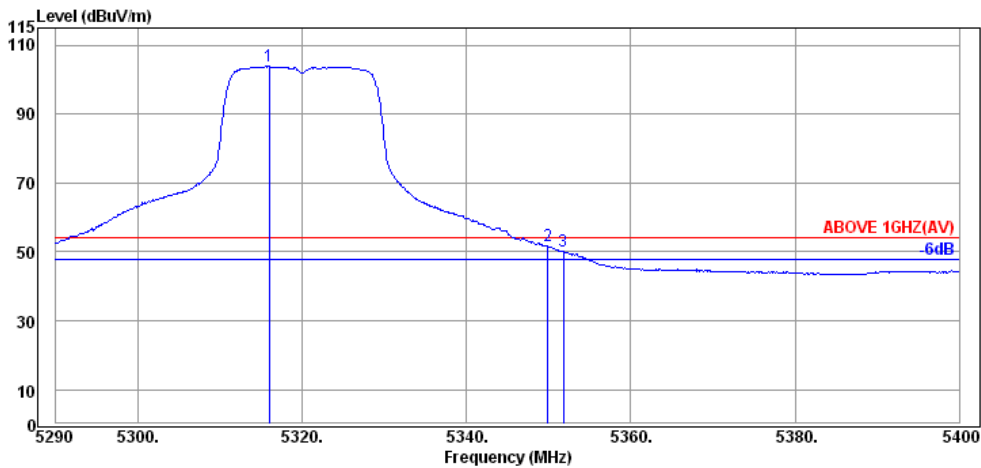
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.07	34.45	9.83	6.18	50.46	54.00	3.54	Average
5150.05	34.45	9.83	7.31	51.59	54.00	2.41	Average
5184.04	34.48	9.88	54.36	98.72	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Horizontal Polarization

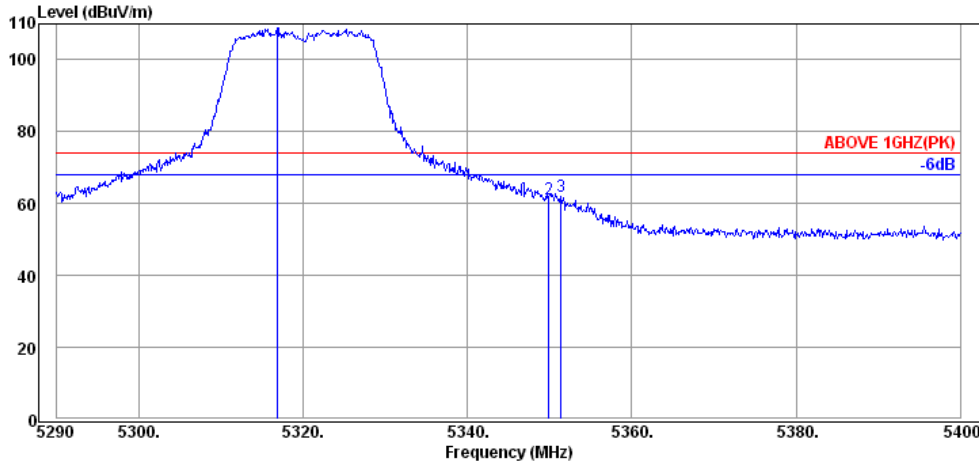
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.41	34.62	10.08	68.42	113.12	---	---	Peak
5349.95	34.65	10.13	16.33	61.11	74.00	12.89	Peak
5351.71	34.65	10.13	16.73	61.51	74.00	12.49	Peak



Antenna at Horizontal Polarization

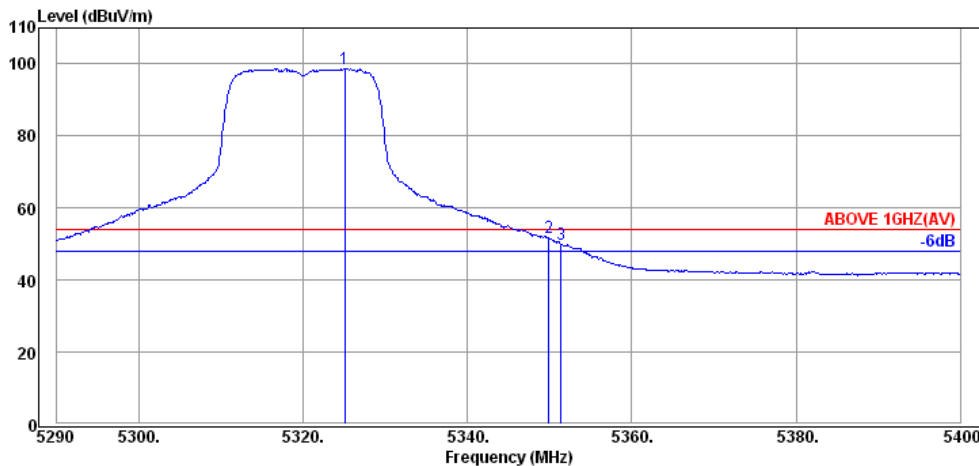
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.96	34.62	10.08	59.14	103.84	---	---	Average
5349.95	34.65	10.13	6.80	51.58	54.00	2.42	Average
5351.82	34.65	10.13	5.57	50.35	54.00	3.65	Average

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Vertical Polarization

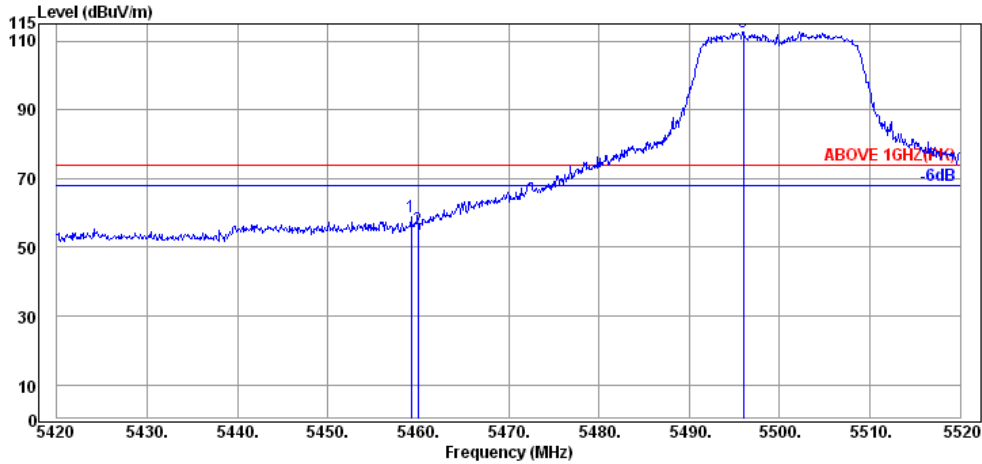
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5316.84	34.62	10.08	64.18	108.88	---	---	Peak
5349.95	34.65	10.13	16.29	61.07	74.00	12.93	Peak
5351.38	34.65	10.13	17.35	62.13	74.00	11.87	Peak



Antenna at Vertical Polarization

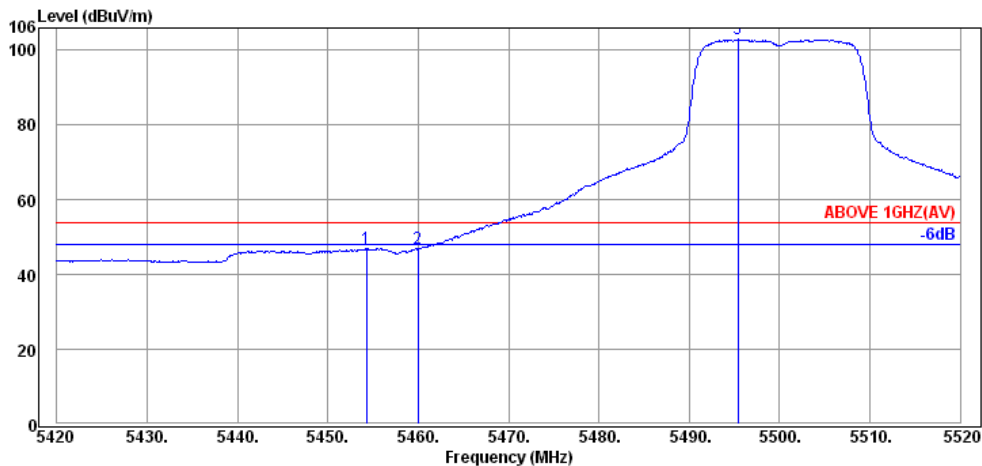
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5325.09	34.62	10.08	54.07	98.77	54.00	---	Average
5349.95	34.65	10.13	6.87	51.65	54.00	2.35	Average
5351.38	34.65	10.13	5.11	49.89	54.00	4.11	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Horizontal Polarization

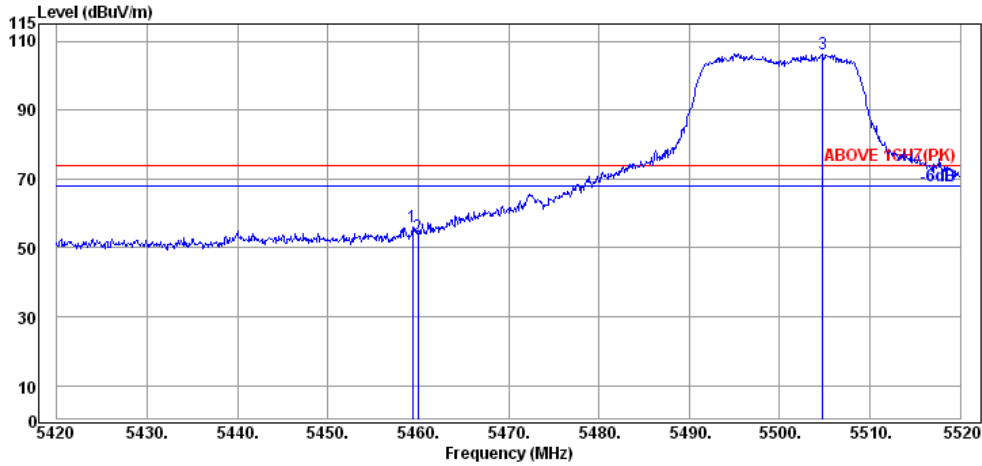
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.20	34.75	10.28	14.01	59.04	74.00	14.96	Peak
5460.00	34.75	10.28	10.38	55.41	74.00	18.59	Peak
5496.00	34.78	10.33	67.47	112.58	---	---	Peak



Antenna at Horizontal Polarization

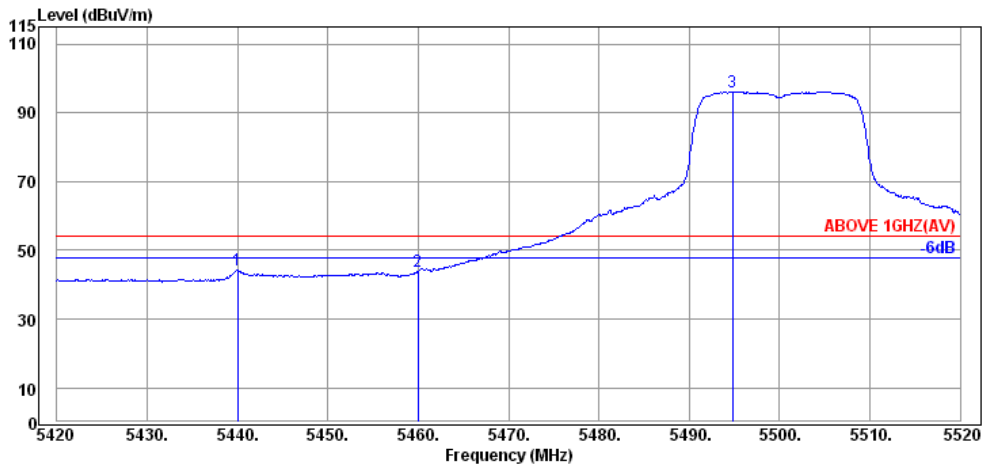
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5454.30	34.75	10.28	2.01	47.04	54.00	6.96	Average
5460.00	34.75	10.28	1.93	46.96	54.00	7.04	Average
5495.40	34.78	10.33	57.82	102.93	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Vertical Polarization

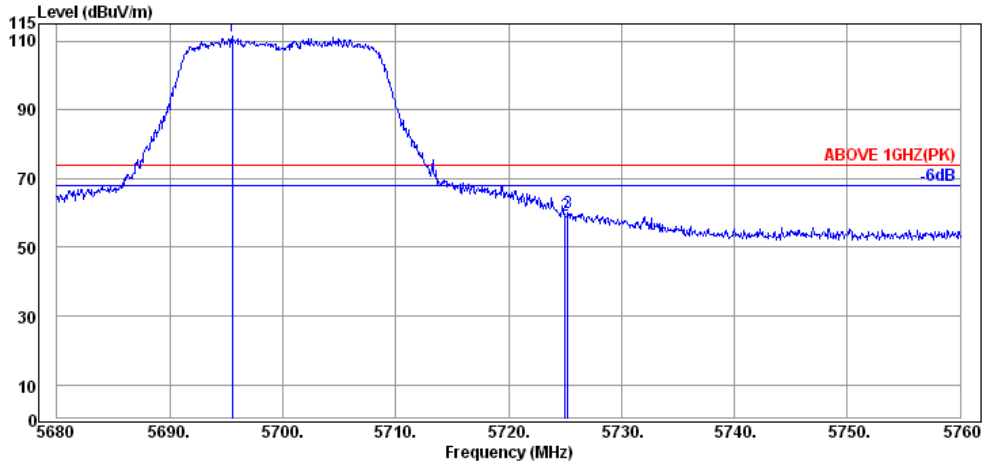
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.40	34.75	10.28	11.18	56.21	74.00	17.79	Peak
5460.00	34.75	10.28	8.42	53.45	74.00	20.55	Peak
5504.80	34.80	10.35	61.23	106.38	---	---	Peak



Antenna at Vertical Polarization

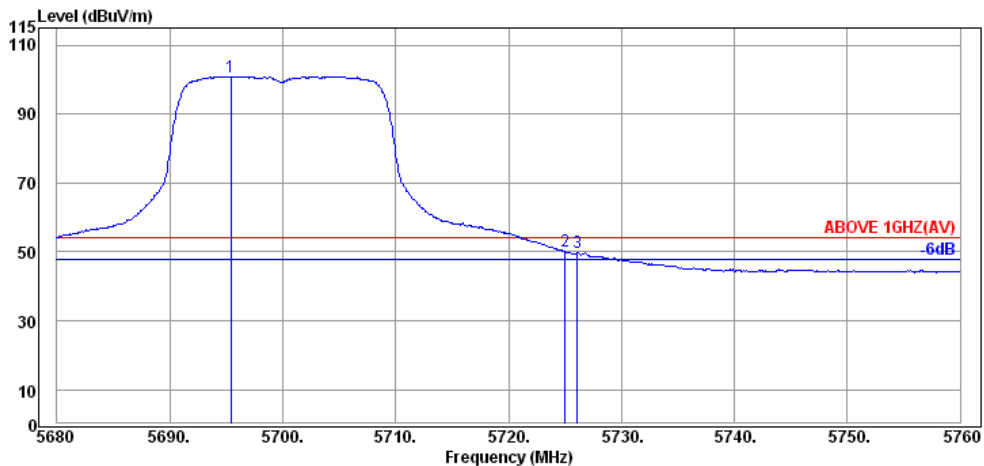
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.00	34.73	10.25	-0.74	44.24	54.00	9.76	Average
5460.00	34.75	10.28	-1.15	43.88	54.00	10.12	Average
5494.80	34.78	10.33	51.04	96.15	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Horizontal Polarization

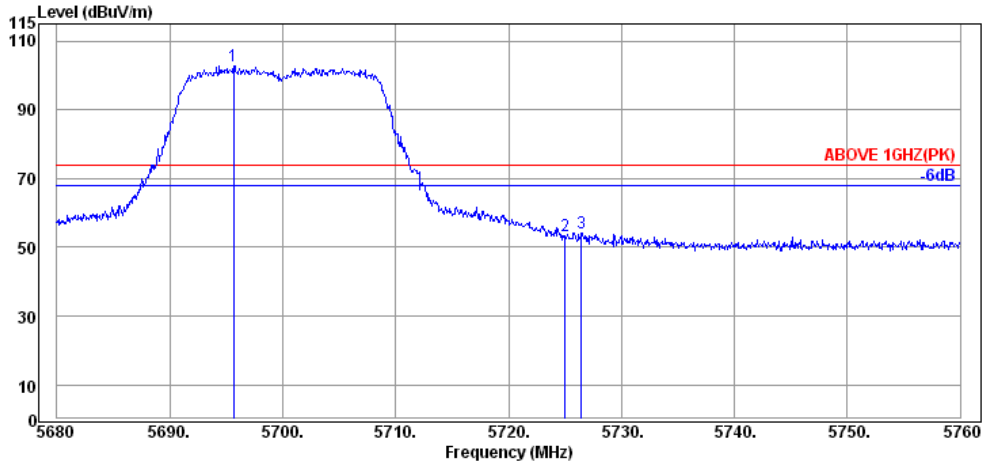
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.52	35.03	10.50	66.00	111.53	74.00	---	Peak
5725.04	35.07	10.52	13.79	59.38	74.00	14.62	Peak
5725.28	35.07	10.52	14.40	59.99	74.00	14.01	Peak



Antenna at Horizontal Polarization

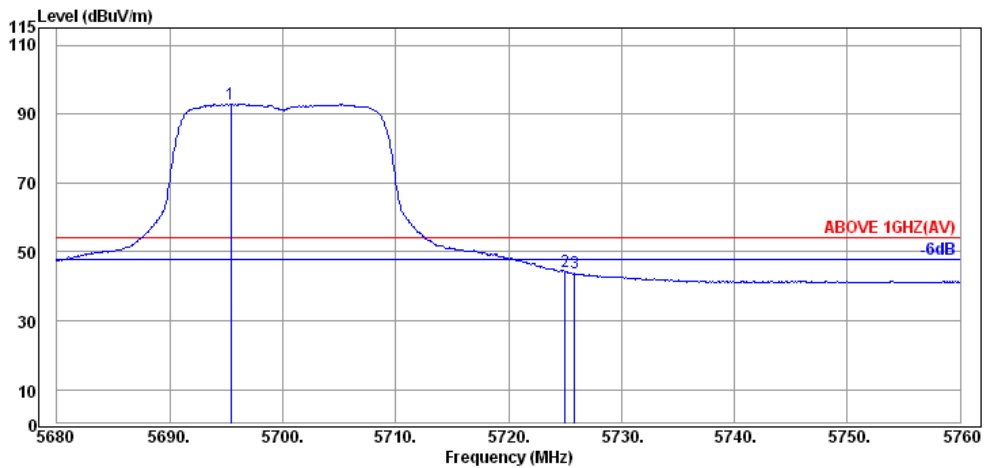
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.44	35.03	10.50	55.42	100.95	54.00	---	Average
5725.04	35.07	10.52	4.43	50.02	54.00	3.98	Average
5726.08	35.07	10.52	4.35	49.94	54.00	4.06	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Vertical Polarization

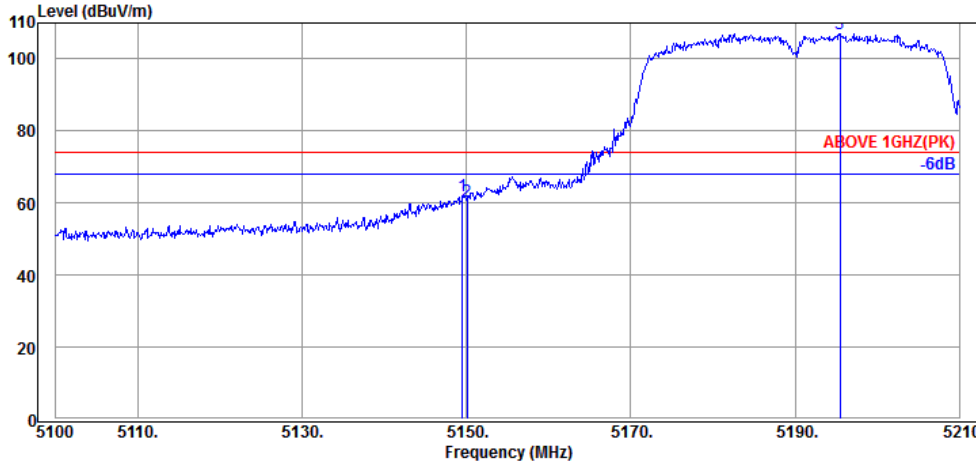
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.68	35.03	10.50	57.35	102.88	74.00	---	Peak
5725.04	35.07	10.52	7.71	53.30	74.00	20.70	Peak
5726.48	35.07	10.52	8.71	54.30	74.00	19.70	Peak



Antenna at Vertical Polarization

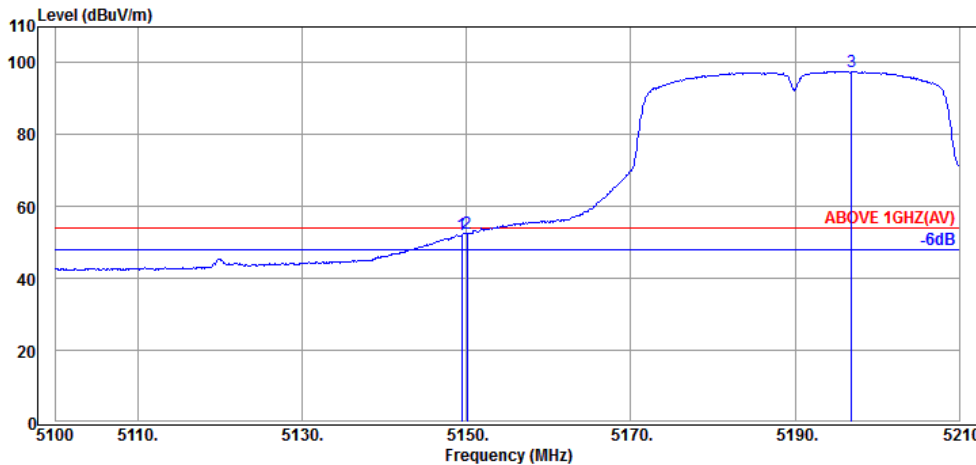
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.44	35.03	10.50	47.43	92.96	54.00	---	Average
5725.04	35.07	10.52	-1.21	44.38	54.00	9.62	Average
5725.84	35.07	10.52	-1.89	43.70	54.00	10.30	Average

Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



Antenna at Horizontal Polarization

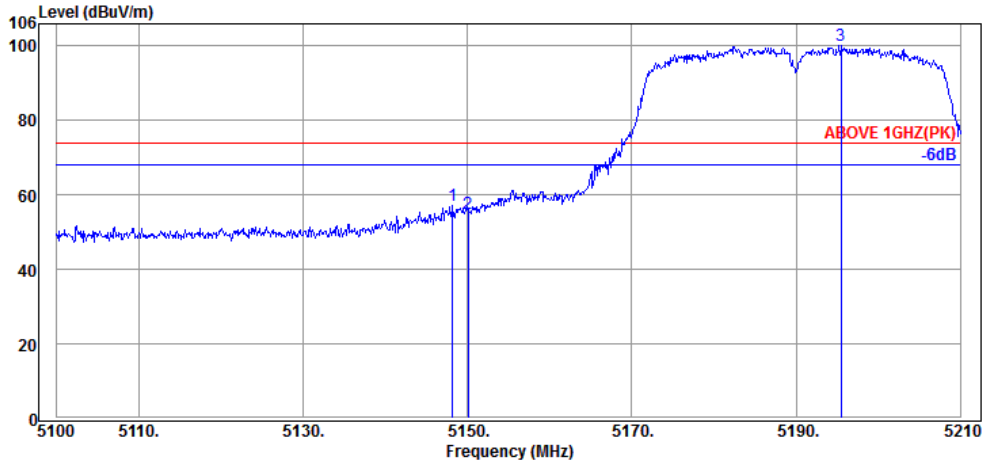
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.50	34.45	9.83	17.68	61.96	74.00	12.04	Peak
5150.05	34.45	9.83	16.10	60.38	74.00	13.62	Peak
5195.48	34.50	9.91	62.57	106.98	---	---	Peak



Antenna at Horizontal Polarization

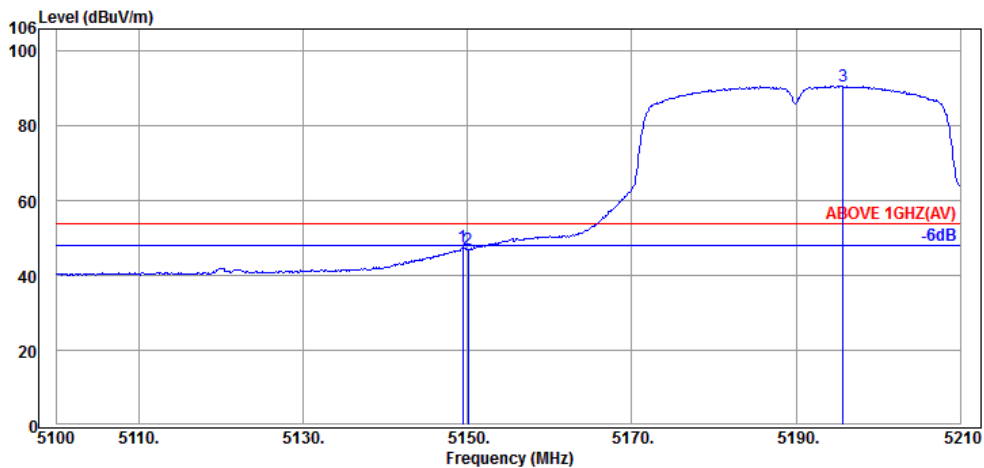
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.39	34.45	9.83	7.89	52.17	54.00	1.83	Average
5150.05	34.45	9.83	8.11	52.39	54.00	1.61	Average
5196.91	34.50	9.91	53.25	97.66	---	---	Average

Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



Antenna at Vertical Polarization

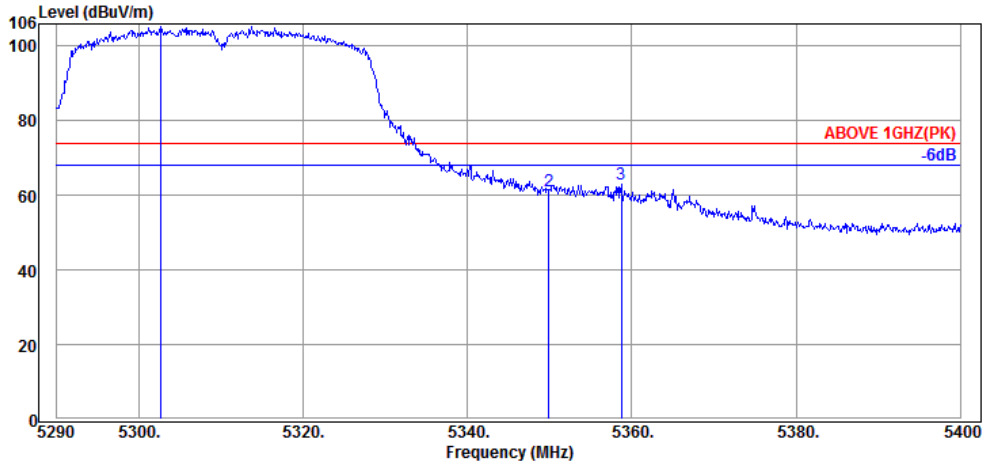
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.18	34.45	9.83	12.94	57.22	74.00	16.78	Peak
5150.05	34.45	9.83	10.85	55.13	74.00	18.87	Peak
5195.48	34.50	9.91	55.92	100.33	---	---	Peak



Antenna at Vertical Polarization

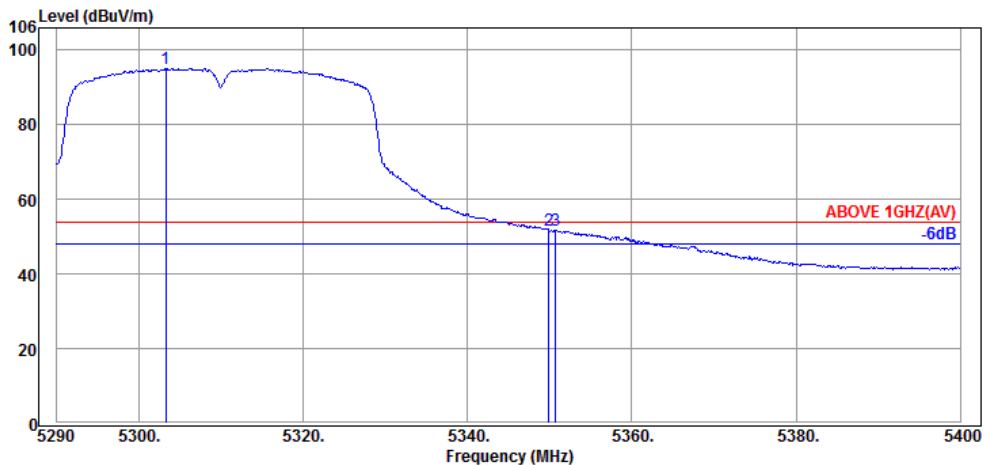
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.39	34.45	9.83	3.26	47.54	54.00	6.46	Average
5150.05	34.45	9.83	2.84	47.12	54.00	6.88	Average
5195.70	34.50	9.91	46.47	90.88	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



Antenna at Horizontal Polarization

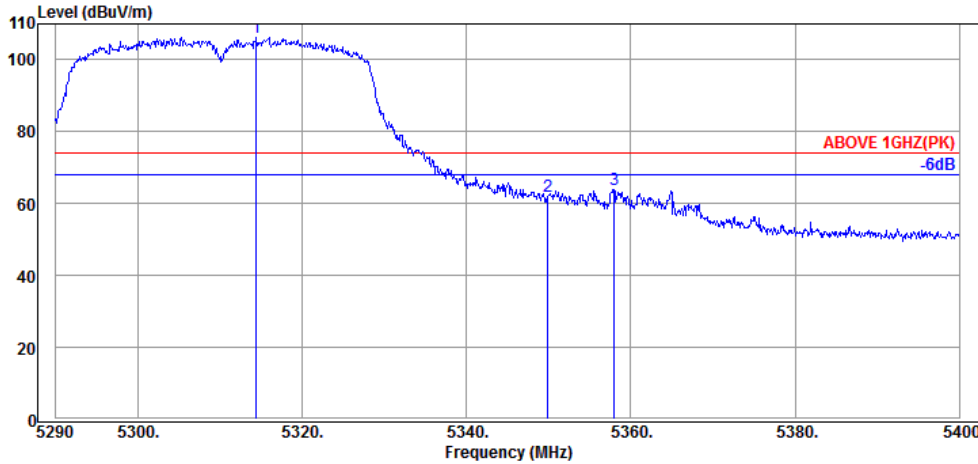
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5302.65	34.60	10.05	60.79	105.44	---	---	Peak
5349.95	34.65	10.13	16.51	61.29	74.00	12.71	Peak
5358.75	34.65	10.13	18.15	62.93	74.00	11.07	Peak



Antenna at Horizontal Polarization

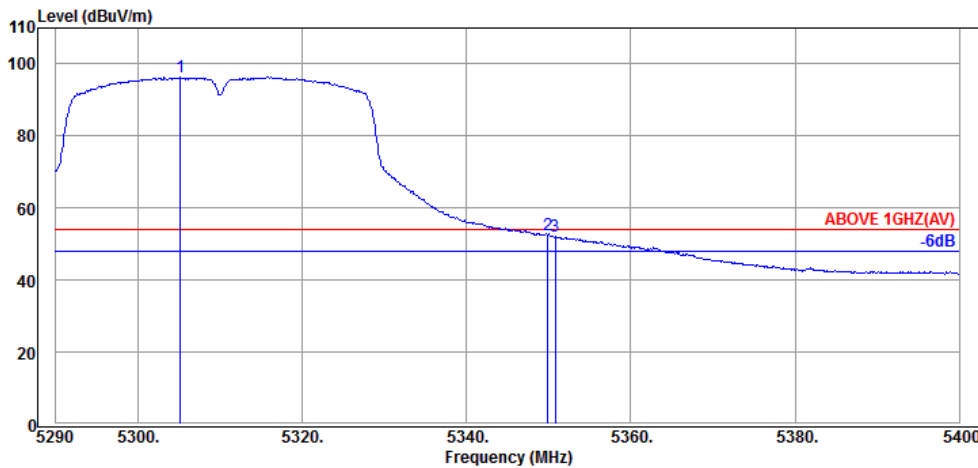
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5303.31	34.60	10.05	50.44	95.09	---	---	Average
5349.95	34.65	10.13	6.89	51.67	54.00	2.33	Average
5350.72	34.65	10.13	6.97	51.75	54.00	2.25	Average

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



Antenna at Vertical Polarization

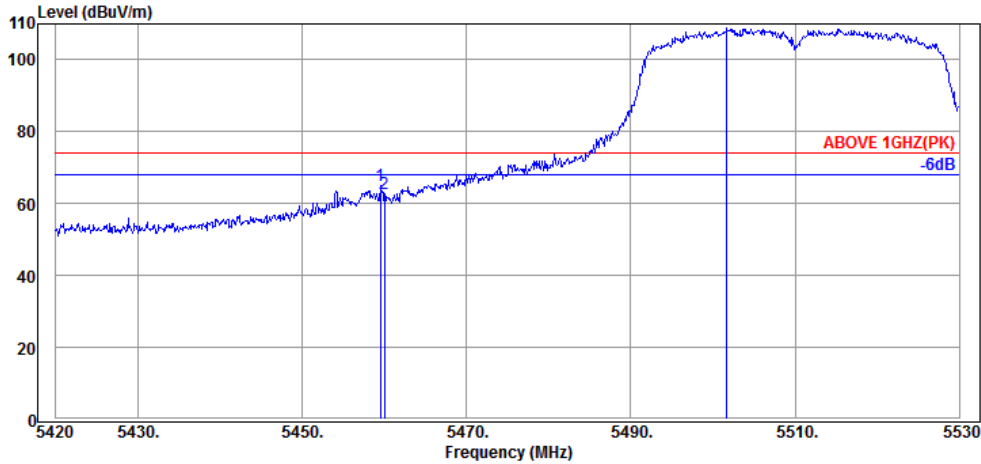
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5314.42	34.62	10.08	61.45	106.15	---	---	Peak
5349.95	34.65	10.13	17.31	62.09	74.00	11.91	Peak
5357.98	34.65	10.13	19.21	63.99	74.00	10.01	Peak



Antenna at Vertical Polarization

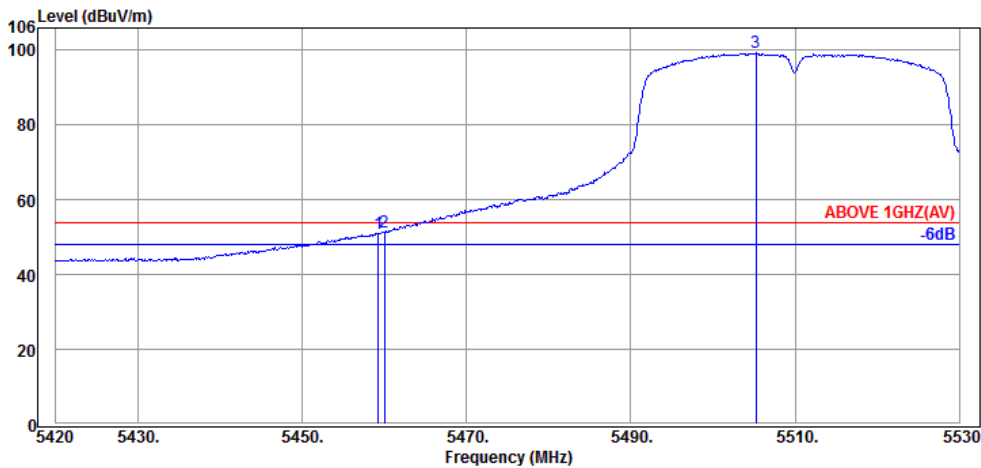
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5305.18	34.60	10.05	51.74	96.39	---	---	Average
5349.95	34.65	10.13	7.66	52.44	54.00	1.56	Average
5350.83	34.65	10.13	7.30	52.08	54.00	1.92	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



Antenna at Horizontal Polarization

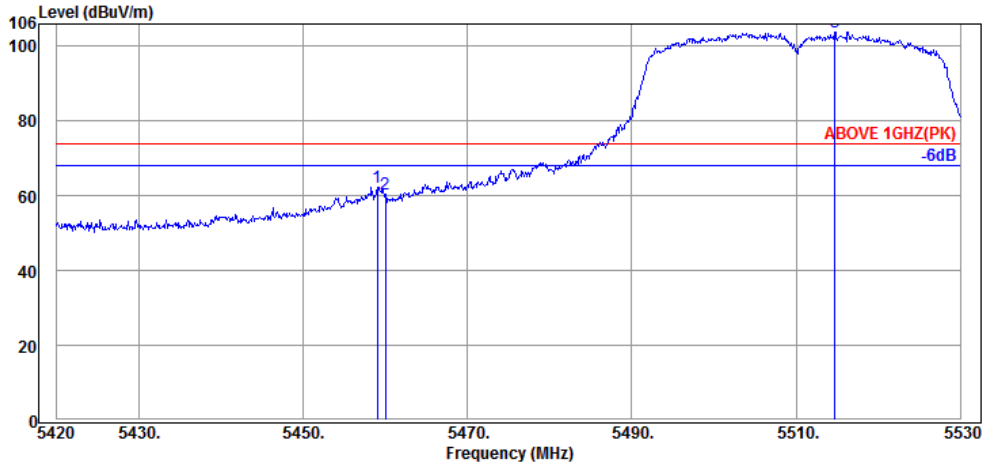
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.49	34.75	10.28	19.92	64.95	74.00	9.05	Peak
5460.04	34.75	10.28	17.67	62.70	74.00	11.30	Peak
5501.73	34.80	10.35	63.87	109.02	---	---	Peak



Antenna at Horizontal Polarization

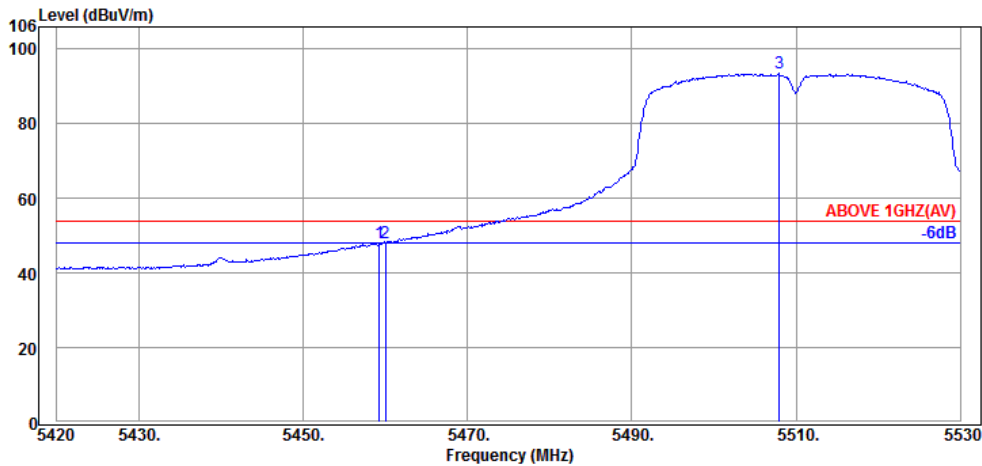
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.27	34.75	10.28	6.05	51.08	54.00	2.92	Average
5460.04	34.75	10.28	6.49	51.52	54.00	2.48	Average
5505.25	34.80	10.35	54.26	99.41	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



Antenna at Vertical Polarization

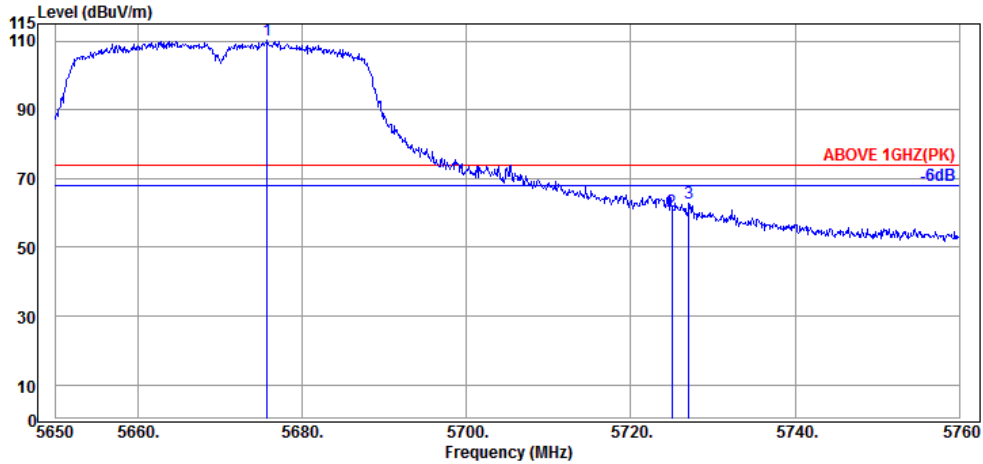
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.05	34.75	10.28	17.37	62.40	74.00	11.60	Peak
5460.04	34.75	10.28	15.26	60.29	74.00	13.71	Peak
5514.71	34.82	10.36	58.70	103.88	---	---	Peak



Antenna at Vertical Polarization

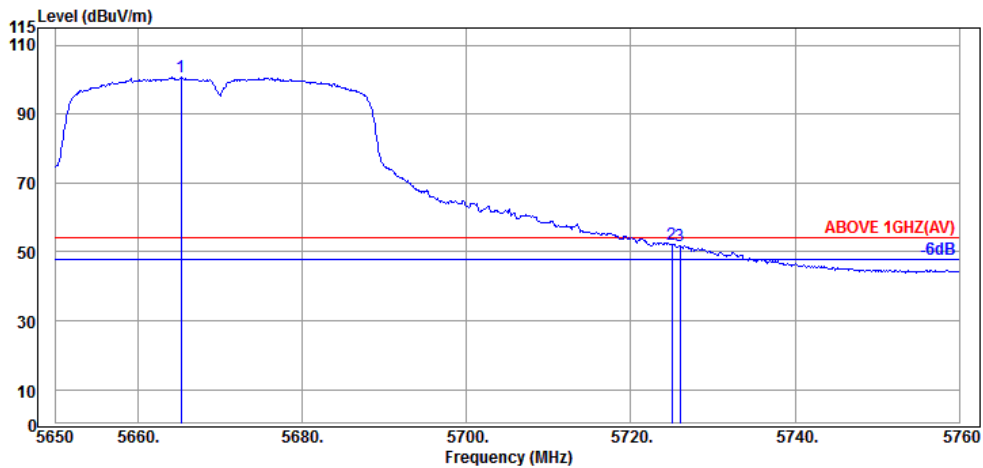
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.27	34.75	10.28	2.91	47.94	54.00	6.06	Average
5460.04	34.75	10.28	3.04	48.07	54.00	5.93	Average
5508.00	34.80	10.35	48.32	93.47	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz



Antenna at Horizontal Polarization

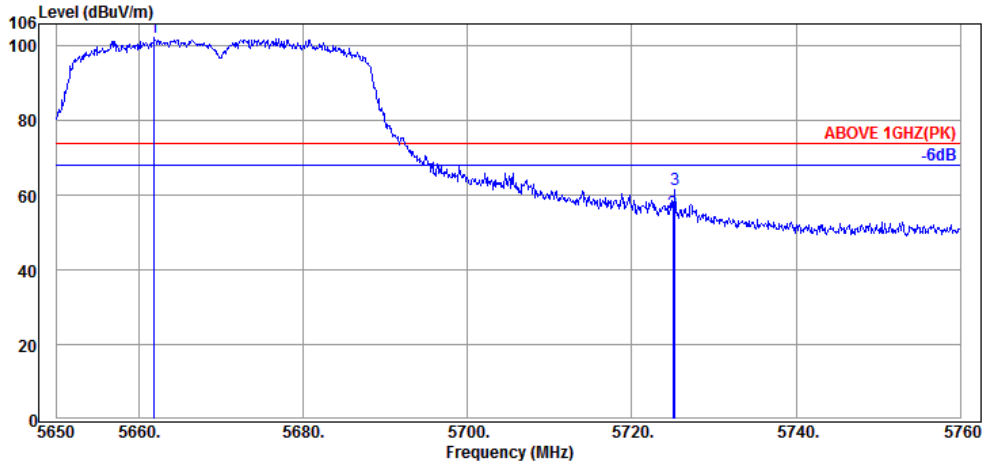
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5675.74	35.01	10.48	64.58	110.07	74.00	---	Peak
5725.02	35.07	10.52	14.97	60.56	74.00	13.44	Peak
5727.11	35.07	10.52	17.36	62.95	74.00	11.05	Peak



Antenna at Horizontal Polarization

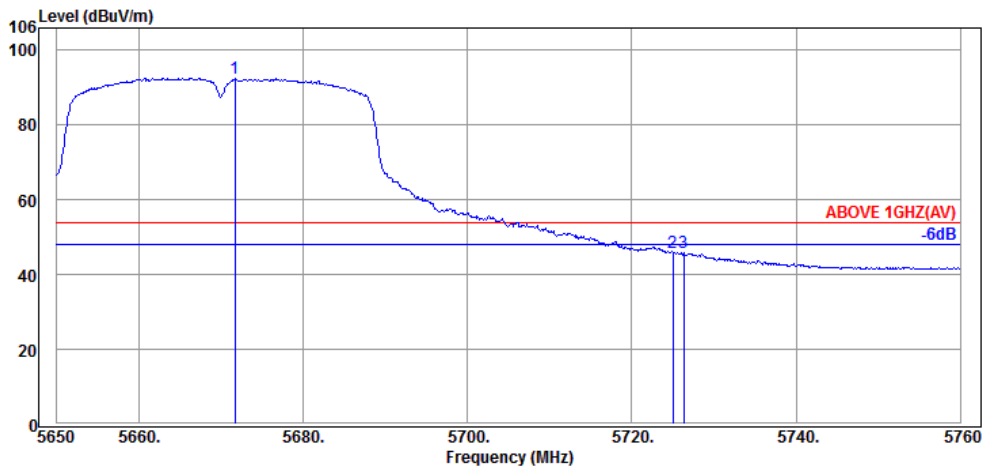
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5665.29	34.99	10.47	55.19	100.65	54.00	---	Average
5725.02	35.07	10.52	6.51	52.10	54.00	1.90	Average
5726.01	35.07	10.52	6.32	51.91	54.00	2.09	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz



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
5661.88	34.99	10.47	56.98	102.44	74.00	---	Peak
5725.02	35.07	10.52	9.85	55.44	74.00	18.56	Peak
5725.24	35.07	10.52	15.99	61.58	74.00	12.42	Peak

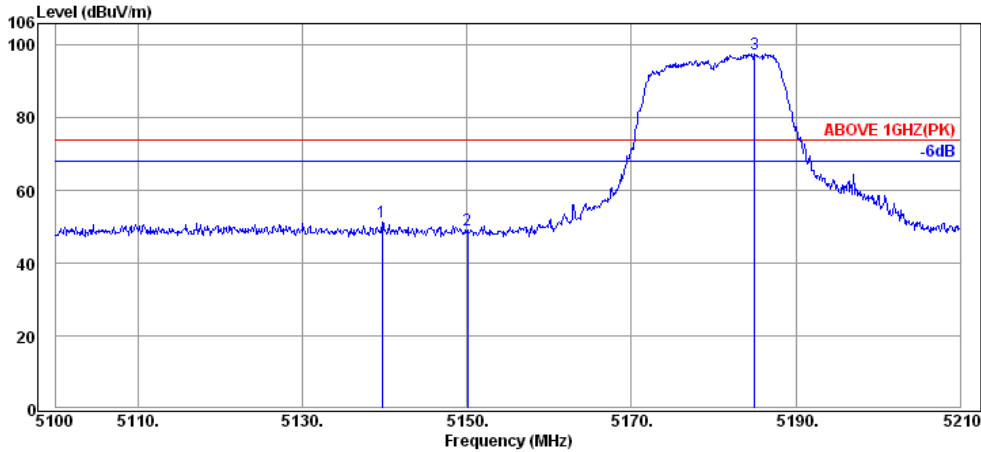


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5671.67	35.01	10.48	47.09	92.58	54.00	---	Average
5725.02	35.07	10.52	0.34	45.93	54.00	8.07	Average
5726.34	35.07	10.52	0.13	45.72	54.00	8.28	Average

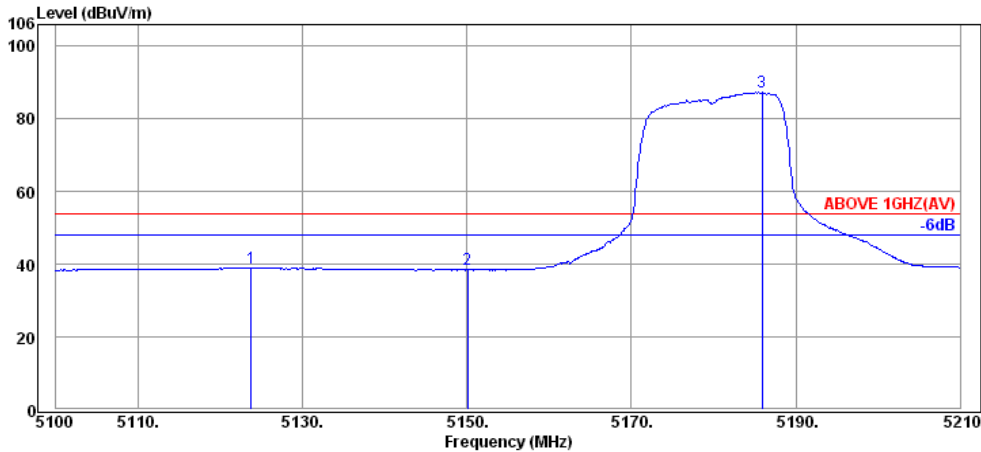
● **Antenna: Omni-S Antenna**

Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Horizontal Polarization

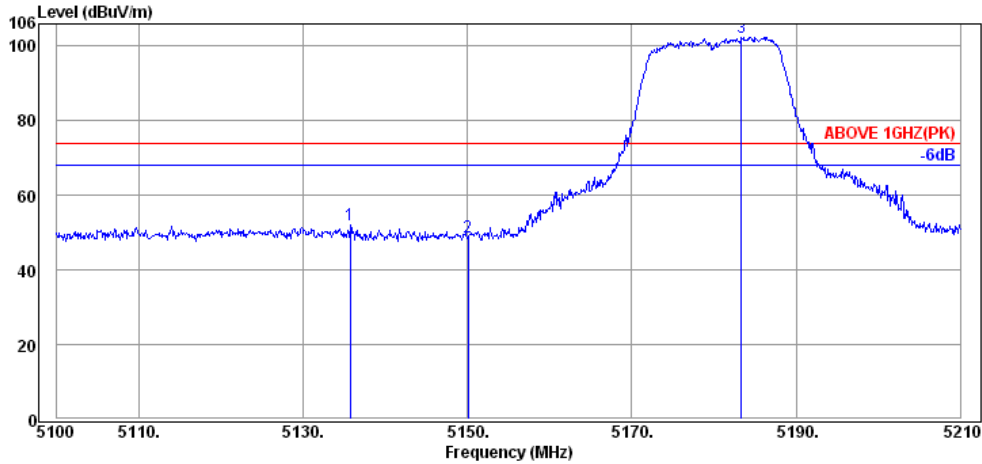
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5139.71	34.45	9.83	7.11	51.39	74.00	22.61	Peak
5150.05	34.45	9.83	5.07	49.35	74.00	24.65	Peak
5185.03	34.48	9.88	53.44	97.80	---	---	Peak



Antenna at Horizontal Polarization

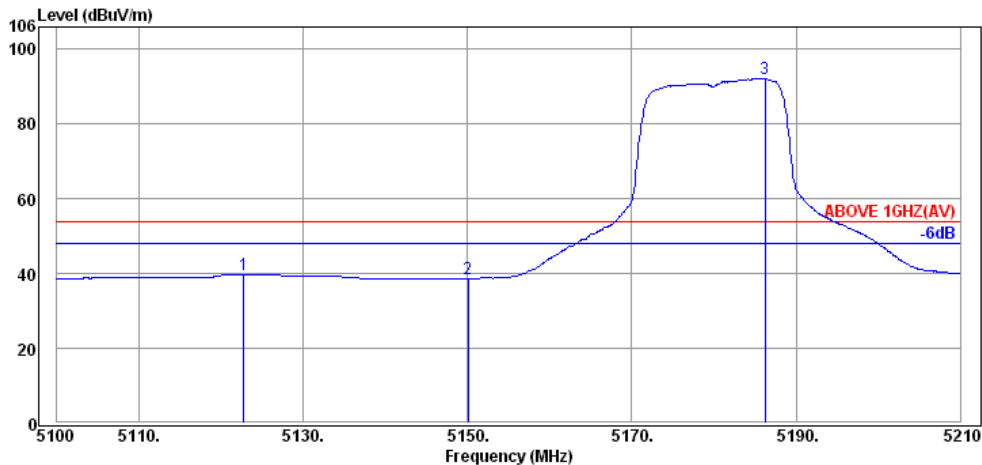
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5123.76	34.43	9.81	-5.31	38.93	54.00	15.07	Average
5150.05	34.45	9.83	-5.81	38.47	54.00	15.53	Average
5185.91	34.48	9.88	42.90	87.26	---	---	Average

Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Vertical Polarization

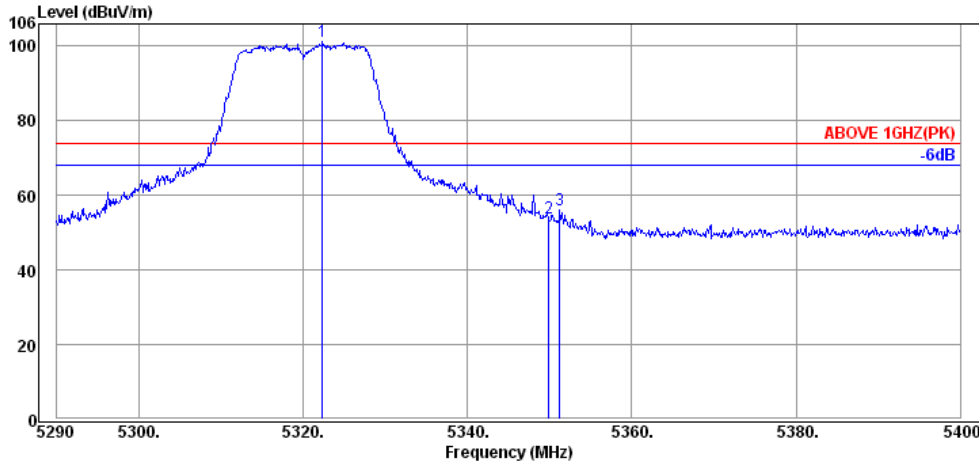
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5135.75	34.43	9.81	7.70	51.94	74.00	22.06	Peak
5150.05	34.45	9.83	4.65	48.93	74.00	25.07	Peak
5183.38	34.48	9.88	57.99	102.35	---	---	Peak



Antenna at Vertical Polarization

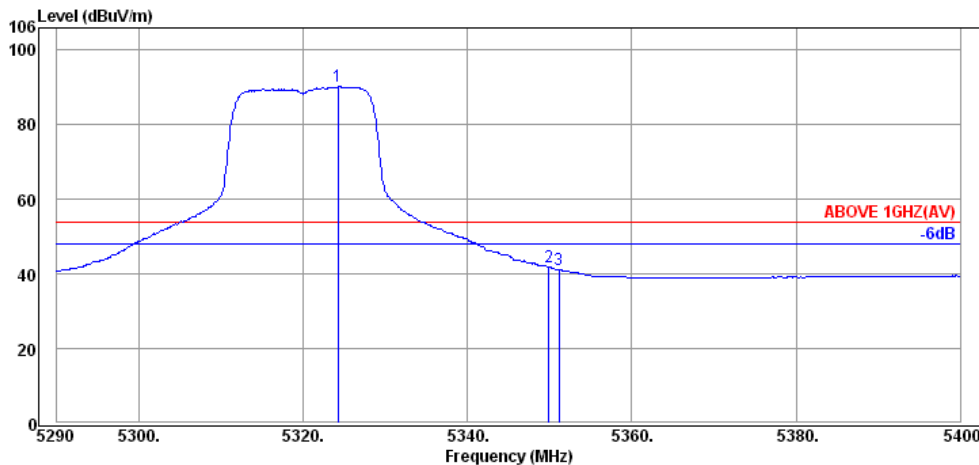
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5122.77	34.43	9.81	-4.44	39.80	54.00	14.20	Average
5150.05	34.45	9.83	-5.57	38.71	54.00	15.29	Average
5186.24	34.48	9.88	47.79	92.15	---	---	Average

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Horizontal Polarization

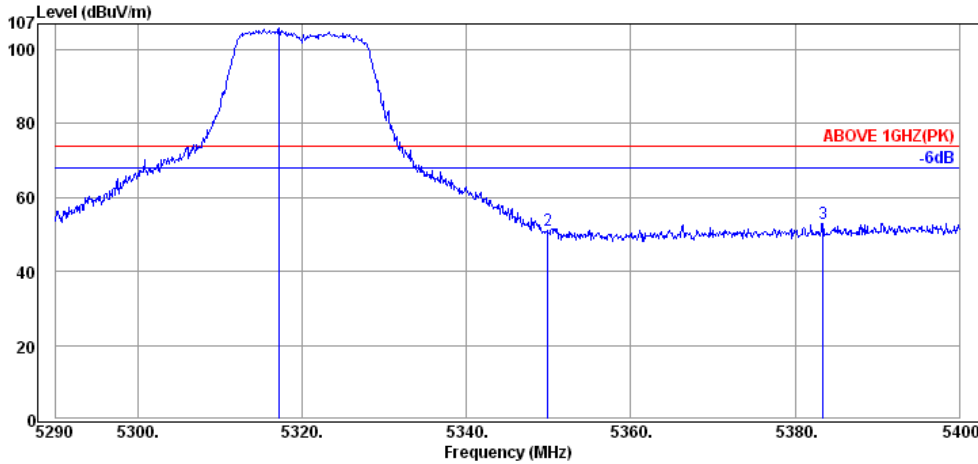
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5322.34	34.62	10.08	56.44	101.14	---	---	Peak
5349.95	34.65	10.13	9.27	54.05	74.00	19.95	Peak
5351.27	34.65	10.13	11.16	55.94	74.00	18.06	Peak



Antenna at Horizontal Polarization

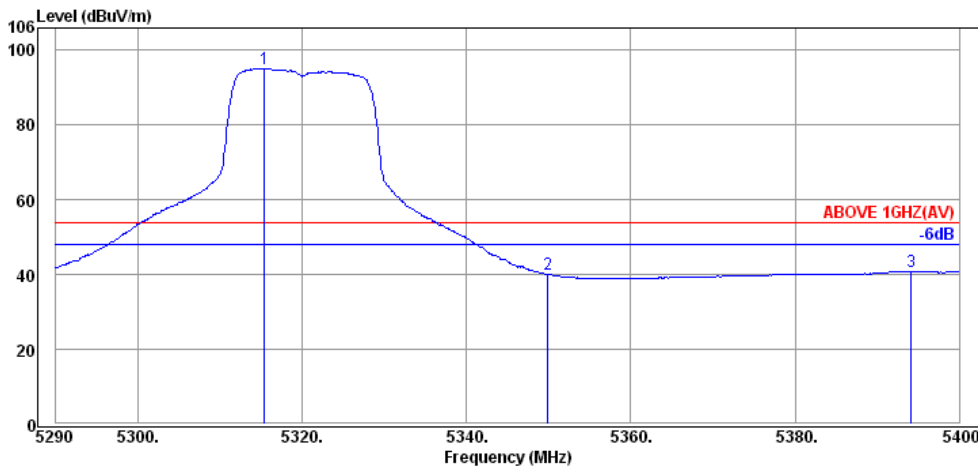
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5324.21	34.62	10.08	45.54	90.24	---	---	Average
5349.95	34.65	10.13	-3.03	41.75	54.00	12.25	Average
5351.16	34.65	10.13	-3.53	41.25	54.00	12.75	Average

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Vertical Polarization

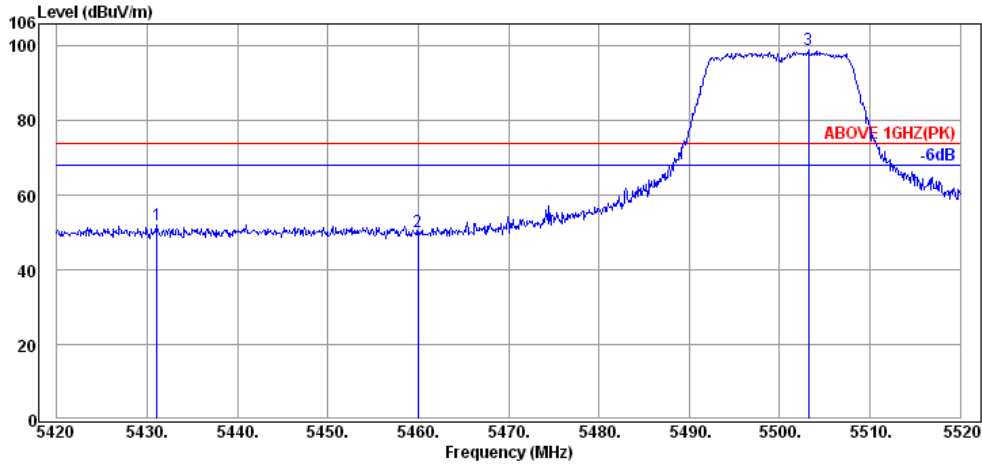
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5317.17	34.62	10.08	61.22	105.92	---	---	Peak
5349.95	34.65	10.13	6.15	50.93	74.00	23.07	Peak
5383.39	34.68	10.18	8.25	53.11	74.00	20.89	Peak



Antenna at Vertical Polarization

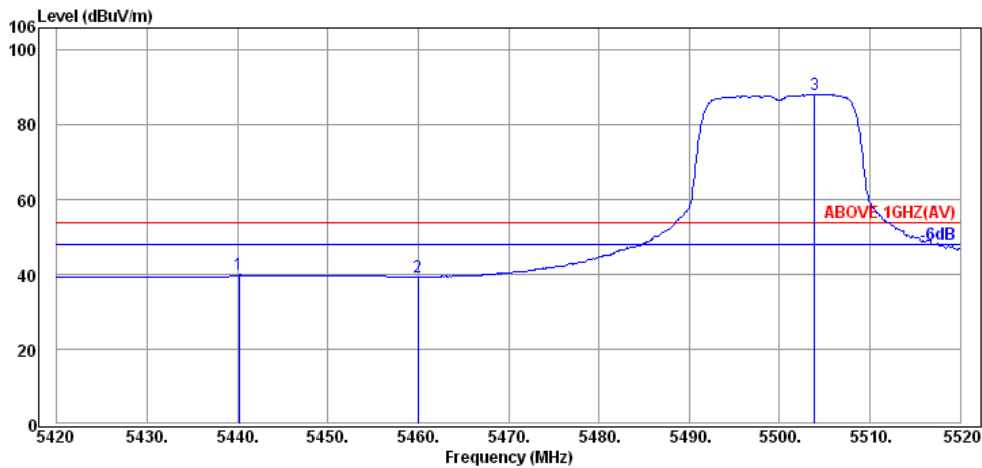
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.41	34.62	10.08	50.50	95.20	---	---	Average
5349.95	34.65	10.13	-4.73	40.05	54.00	13.95	Average
5394.17	34.68	10.18	-4.12	40.74	54.00	13.26	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Horizontal Polarization

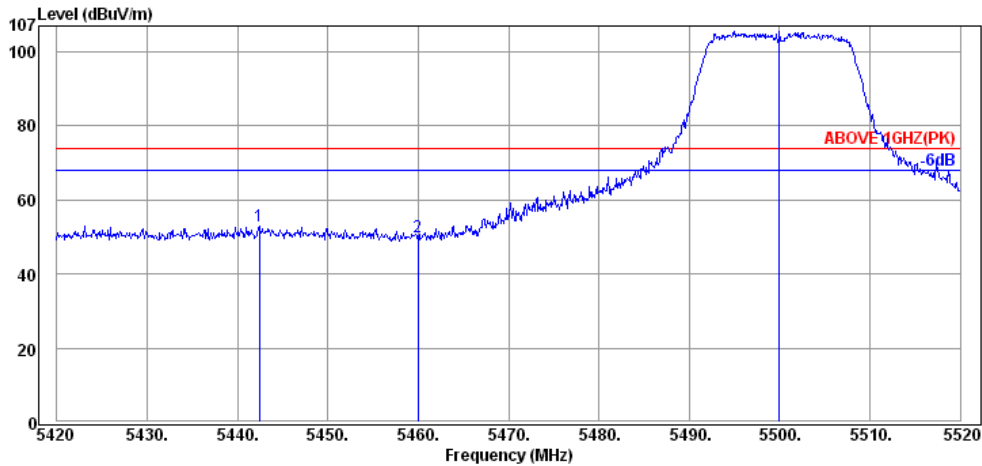
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5431.10	34.73	10.25	7.24	52.22	74.00	21.78	Peak
5460.00	34.75	10.28	5.17	50.20	74.00	23.80	Peak
5503.20	34.80	10.35	54.01	99.16	---	---	Peak



Antenna at Horizontal Polarization

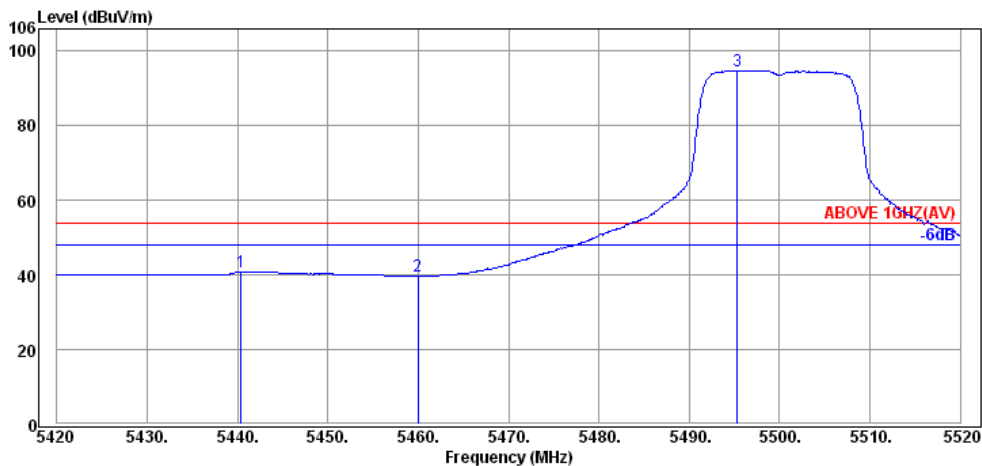
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.20	34.73	10.25	-5.06	39.92	54.00	14.08	Average
5460.00	34.75	10.28	-5.60	39.43	54.00	14.57	Average
5503.90	34.80	10.35	43.14	88.29	---	---	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Vertical Polarization

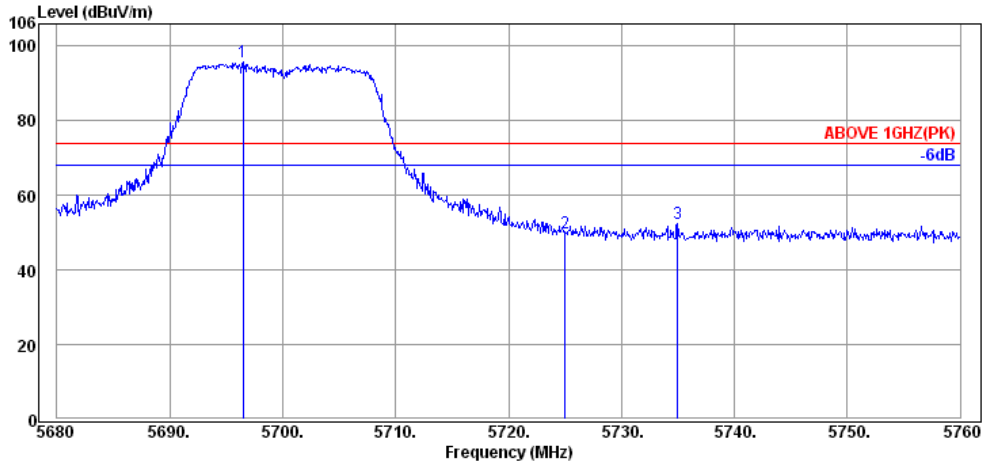
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5442.40	34.73	10.25	7.92	52.90	74.00	21.10	Peak
5460.00	34.75	10.28	4.84	49.87	74.00	24.13	Peak
5500.00	34.80	10.35	60.42	105.57	---	---	Peak



Antenna at Vertical Polarization

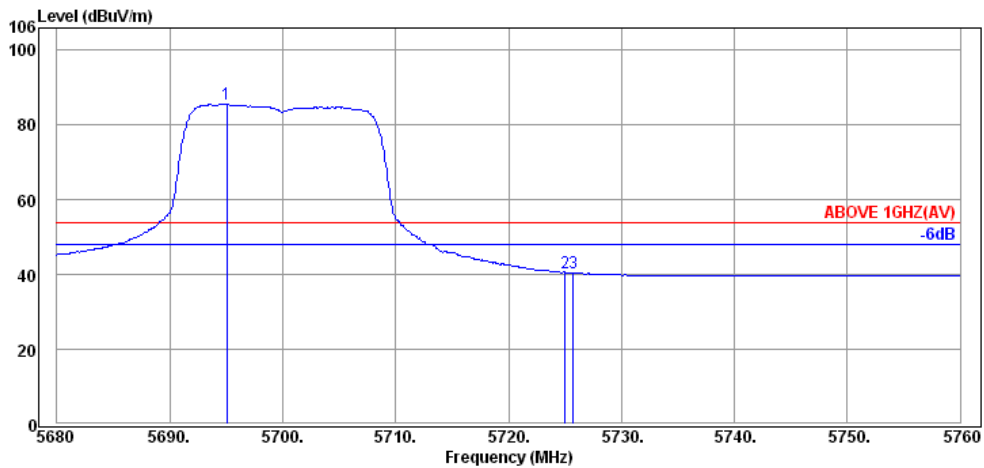
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.40	34.73	10.25	-4.11	40.87	54.00	13.13	Average
5460.00	34.75	10.28	-5.26	39.77	54.00	14.23	Average
5495.30	34.78	10.33	49.71	94.82	---	---	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Horizontal Polarization

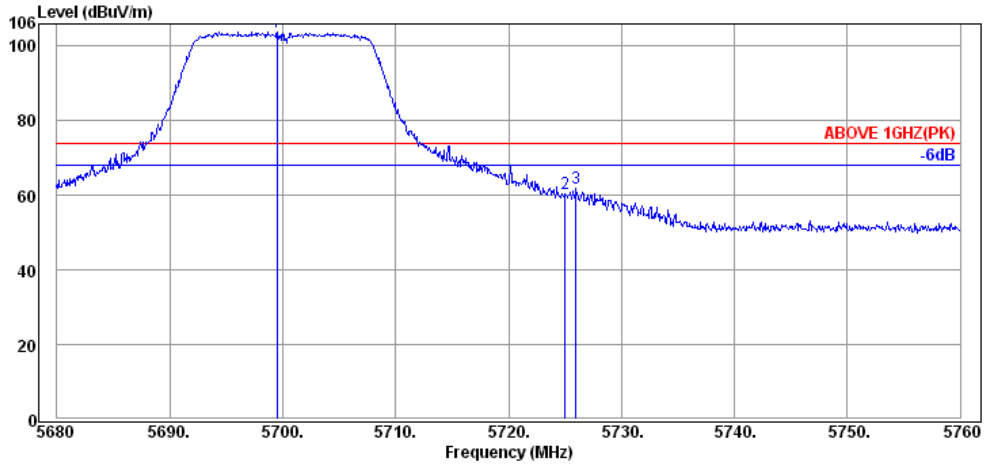
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5696.48	35.03	10.50	50.21	95.74	74.00	---	Peak
5725.04	35.07	10.52	4.35	49.94	74.00	24.06	Peak
5734.96	35.09	10.54	6.83	52.46	74.00	21.54	Peak



Antenna at Horizontal Polarization

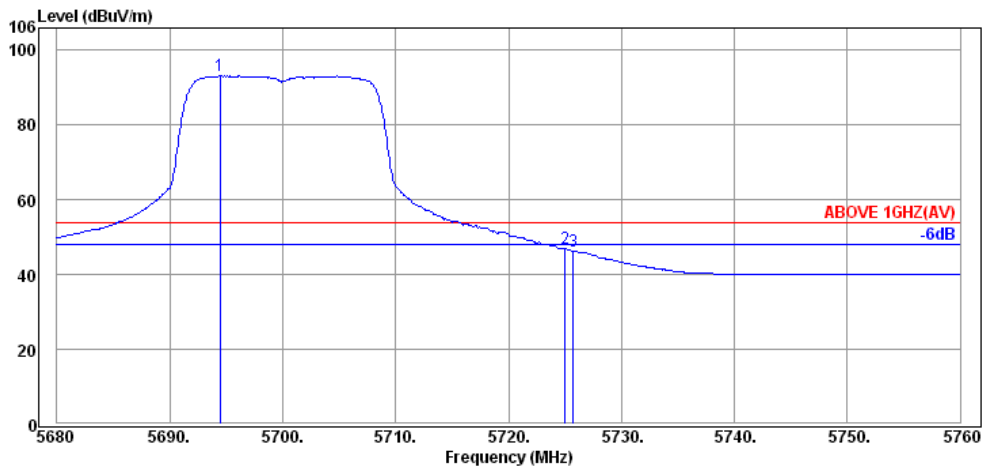
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.04	35.03	10.50	39.97	85.50	54.00	---	Average
5725.04	35.07	10.52	-5.05	40.54	54.00	13.46	Average
5725.76	35.07	10.52	-5.18	40.41	54.00	13.59	Average

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Vertical Polarization

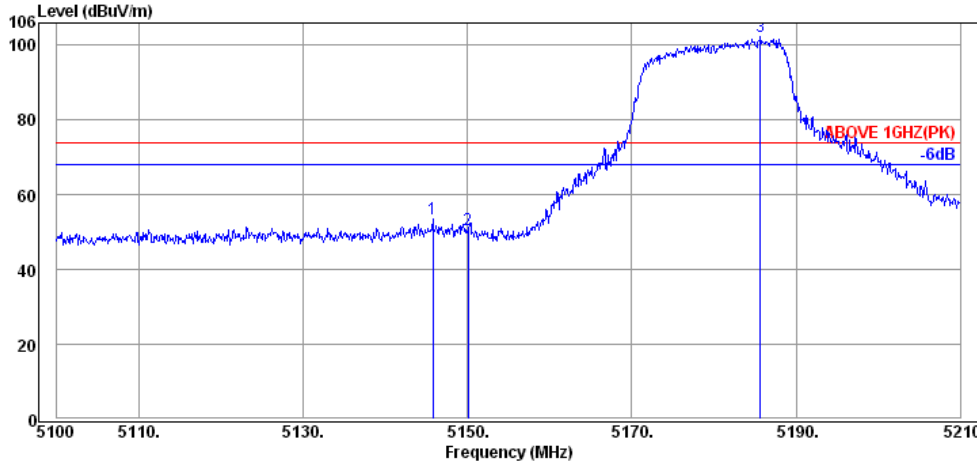
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5699.52	35.03	10.50	58.35	103.88	74.00	---	Peak
5725.04	35.07	10.52	14.74	60.33	74.00	13.67	Peak
5726.00	35.07	10.52	16.30	61.89	74.00	12.11	Peak



Antenna at Vertical Polarization

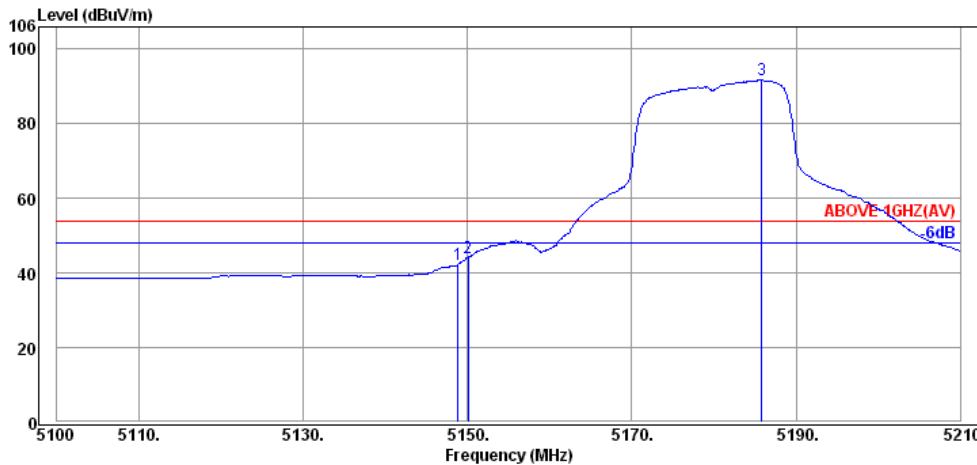
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5694.48	35.03	10.50	47.60	93.13	54.00	---	Average
5725.04	35.07	10.52	1.25	46.84	54.00	7.16	Average
5725.76	35.07	10.52	0.60	46.19	54.00	7.81	Average

Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Horizontal Polarization

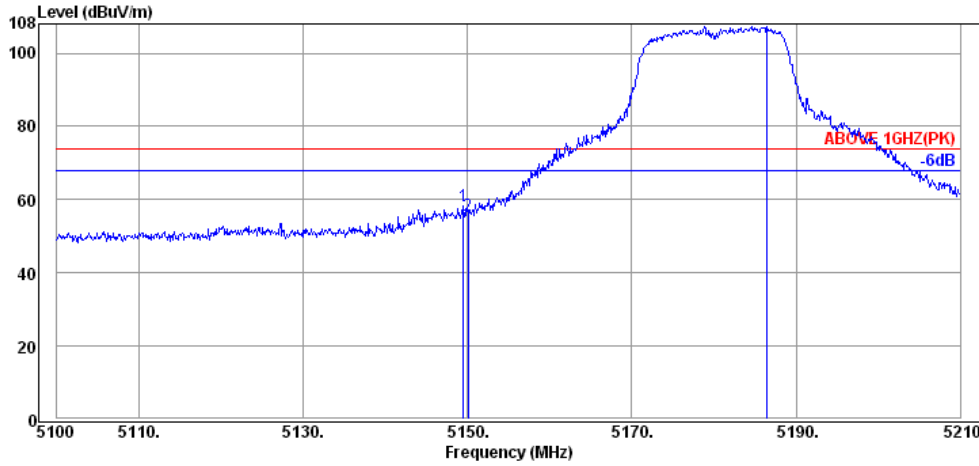
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5145.76	34.45	9.83	9.32	53.60	74.00	20.40	Peak
5150.05	34.45	9.83	6.40	50.68	74.00	23.32	Peak
5185.69	34.48	9.88	57.86	102.22	---	---	Peak



Antenna at Horizontal Polarization

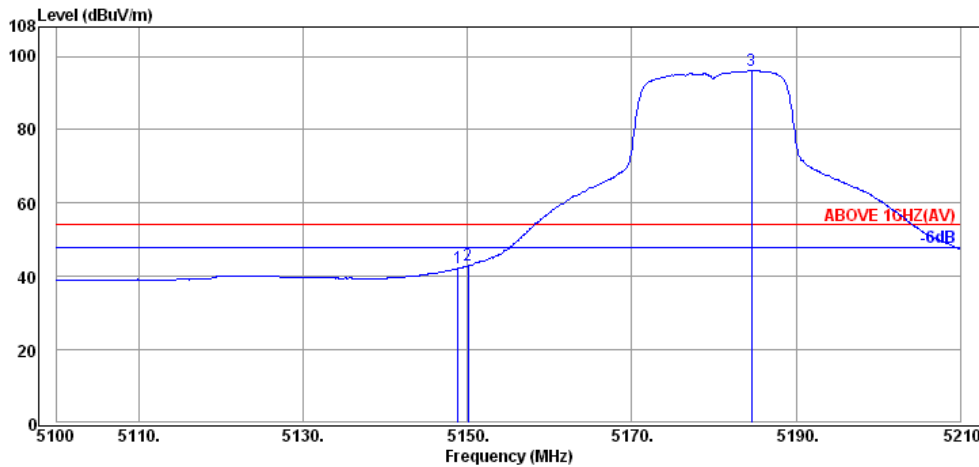
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.84	34.45	9.83	-1.94	42.34	54.00	11.66	Average
5150.05	34.45	9.83	-0.14	44.14	54.00	9.86	Average
5185.80	34.48	9.88	47.41	91.77	---	---	Average

Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



Antenna at Vertical Polarization

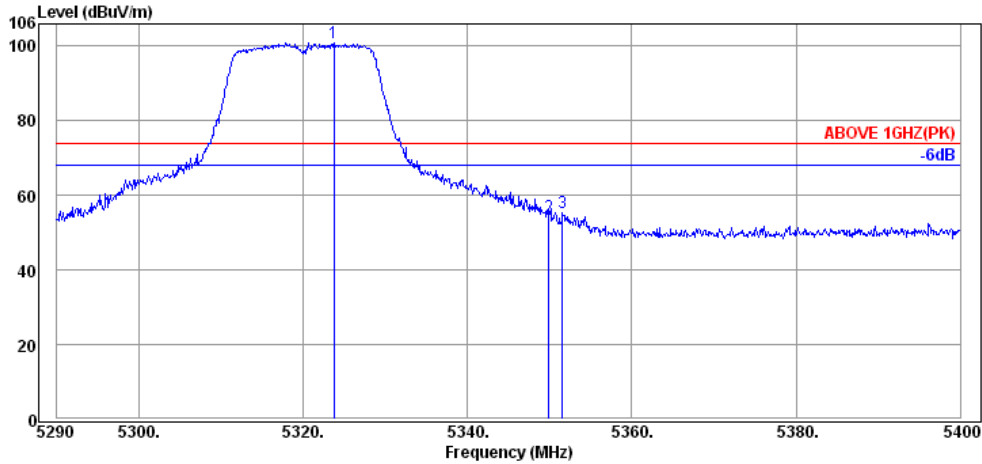
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.50	34.45	9.83	14.11	58.39	74.00	15.61	Peak
5150.05	34.45	9.83	11.57	55.85	74.00	18.15	Peak
5186.46	34.48	9.88	62.82	107.18	---	---	Peak



Antenna at Vertical Polarization

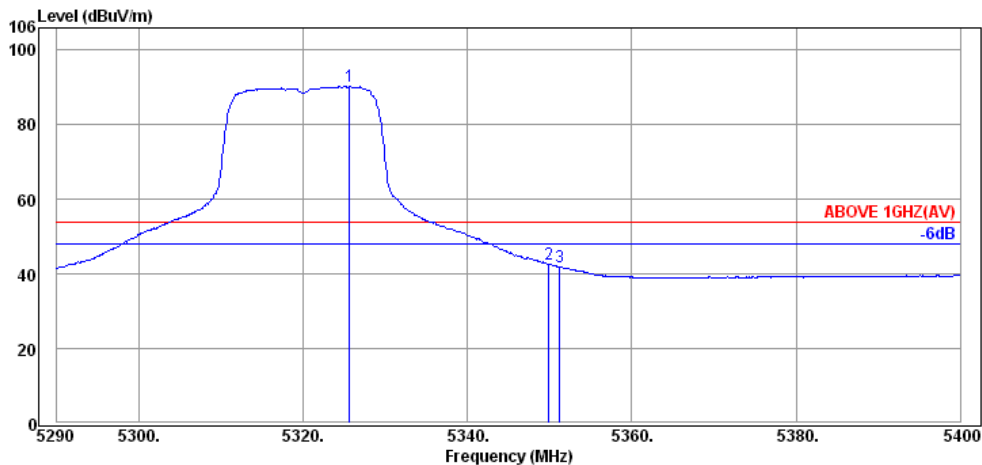
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.84	34.45	9.83	-2.13	42.15	54.00	11.85	Average
5150.05	34.45	9.83	-1.40	42.88	54.00	11.12	Average
5184.59	34.48	9.88	51.74	96.10	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Horizontal Polarization

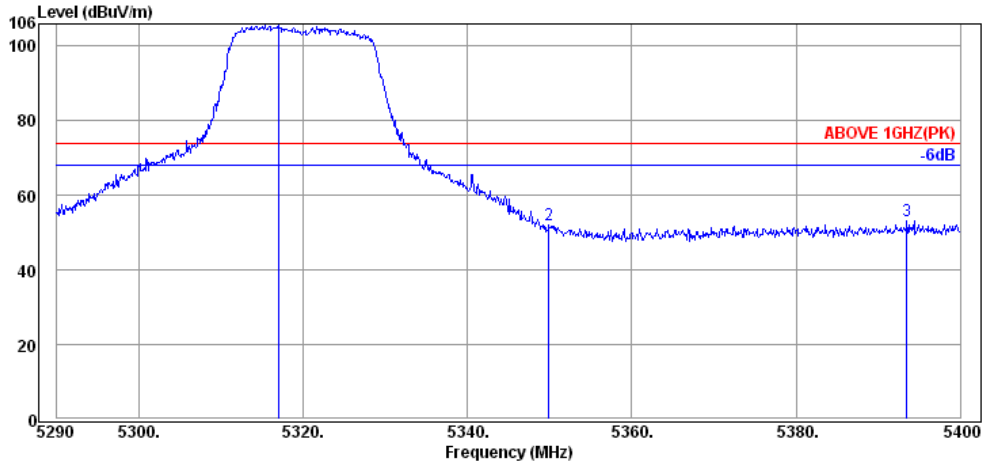
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5323.77	34.62	10.08	56.34	101.04	---	---	Peak
5349.95	34.65	10.13	9.67	54.45	74.00	19.55	Peak
5351.60	34.65	10.13	10.71	55.49	74.00	18.51	Peak



Antenna at Horizontal Polarization

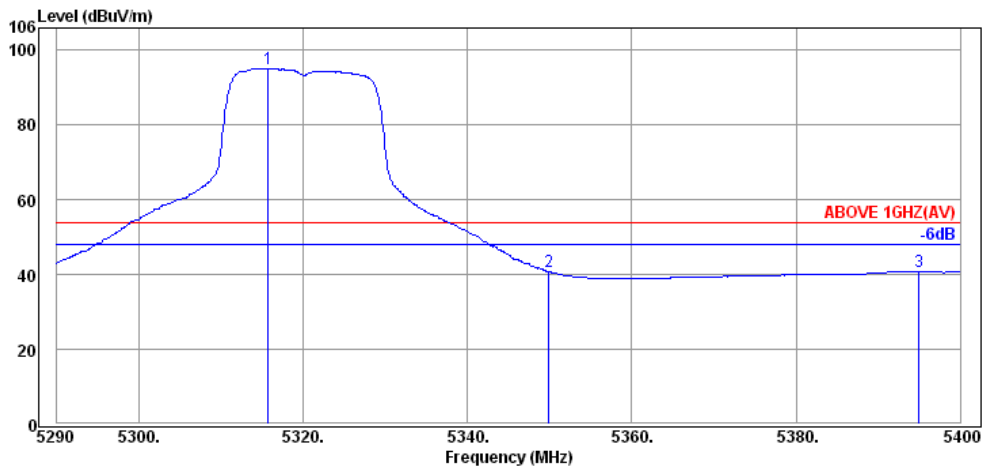
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5325.64	34.62	10.08	45.64	90.34	---	---	Average
5349.95	34.65	10.13	-2.08	42.70	54.00	11.30	Average
5351.27	34.65	10.13	-2.74	42.04	54.00	11.96	Average

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



Antenna at Vertical Polarization

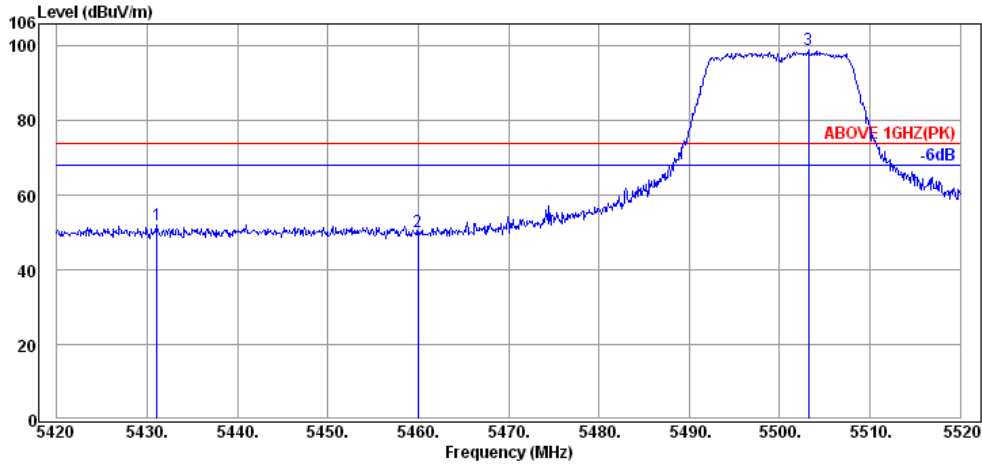
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5316.95	34.62	10.08	60.93	105.63	---	---	Peak
5349.95	34.65	10.13	7.13	51.91	74.00	22.09	Peak
5393.51	34.68	10.18	8.41	53.27	74.00	20.73	Peak



Antenna at Vertical Polarization

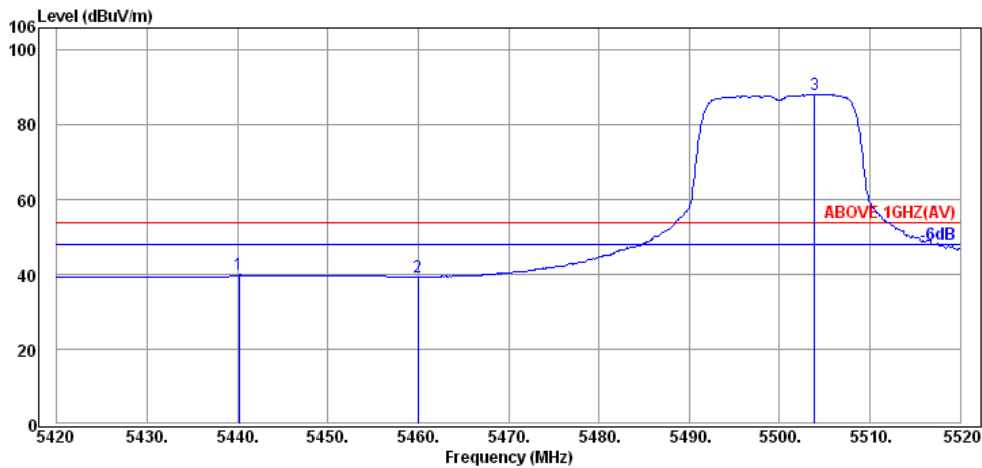
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.74	34.62	10.08	50.50	95.20	---	---	Average
5349.95	34.65	10.13	-4.02	40.76	54.00	13.24	Average
5394.94	34.70	10.20	-4.14	40.76	54.00	13.24	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Horizontal Polarization

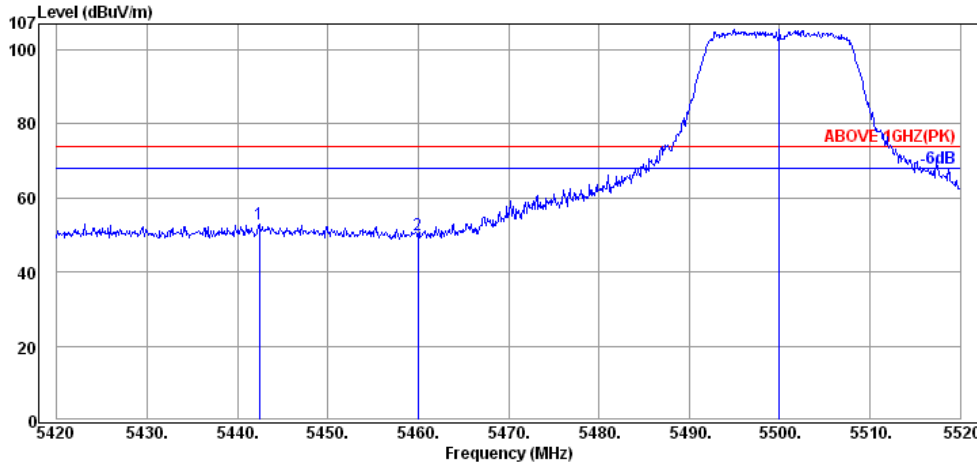
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5431.10	34.73	10.25	7.24	52.22	74.00	21.78	Peak
5460.00	34.75	10.28	5.17	50.20	74.00	23.80	Peak
5503.20	34.80	10.35	54.01	99.16	---	---	Peak



Antenna at Horizontal Polarization

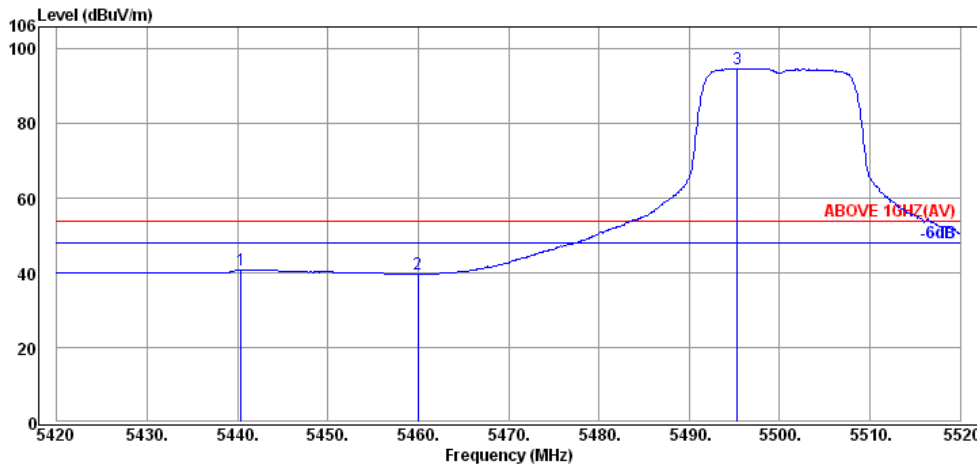
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.20	34.73	10.25	-5.06	39.92	54.00	14.08	Average
5460.00	34.75	10.28	-5.60	39.43	54.00	14.57	Average
5503.90	34.80	10.35	43.14	88.29	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



Antenna at Vertical Polarization

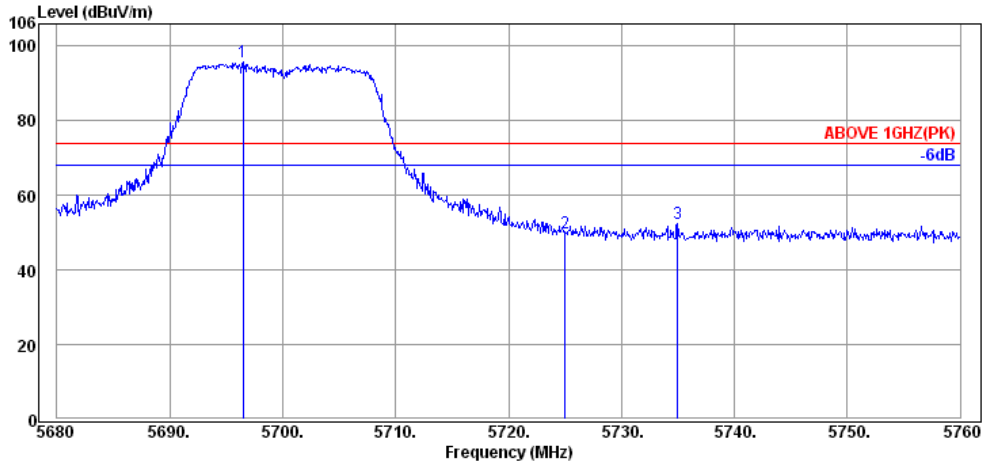
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5442.40	34.73	10.25	7.92	52.90	74.00	21.10	Peak
5460.00	34.75	10.28	4.84	49.87	74.00	24.13	Peak
5500.00	34.80	10.35	60.42	105.57	---	---	Peak



Antenna at Vertical Polarization

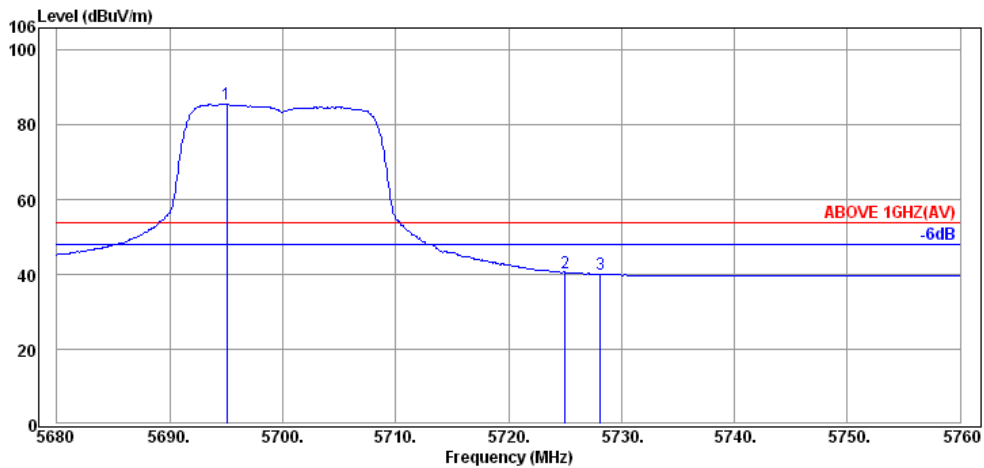
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5440.40	34.73	10.25	-4.11	40.87	54.00	13.13	Average
5460.00	34.75	10.28	-5.26	39.77	54.00	14.23	Average
5495.30	34.78	10.33	49.71	94.82	---	---	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Horizontal Polarization

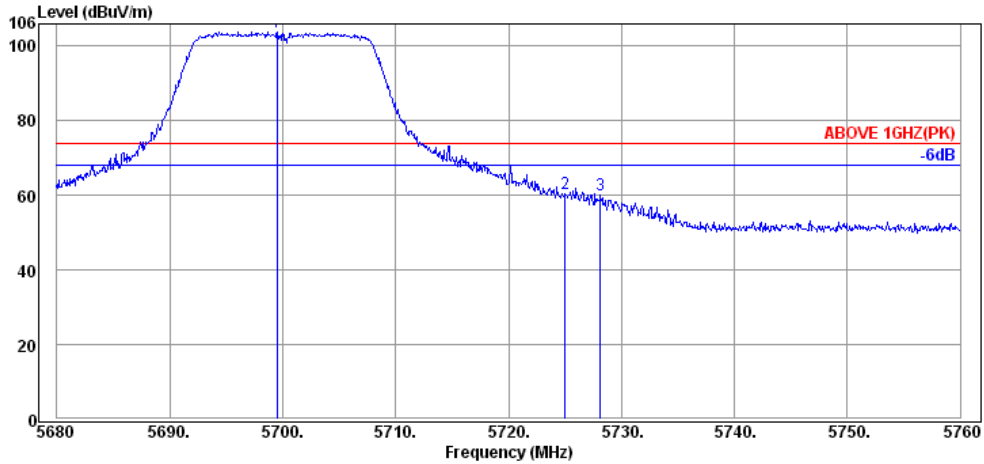
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5696.48	35.03	10.50	50.21	95.74	74.00	---	Peak
5725.04	35.07	10.52	4.35	49.94	74.00	24.06	Peak
5734.96	35.09	10.54	6.83	52.46	74.00	21.54	Peak



Antenna at Horizontal Polarization

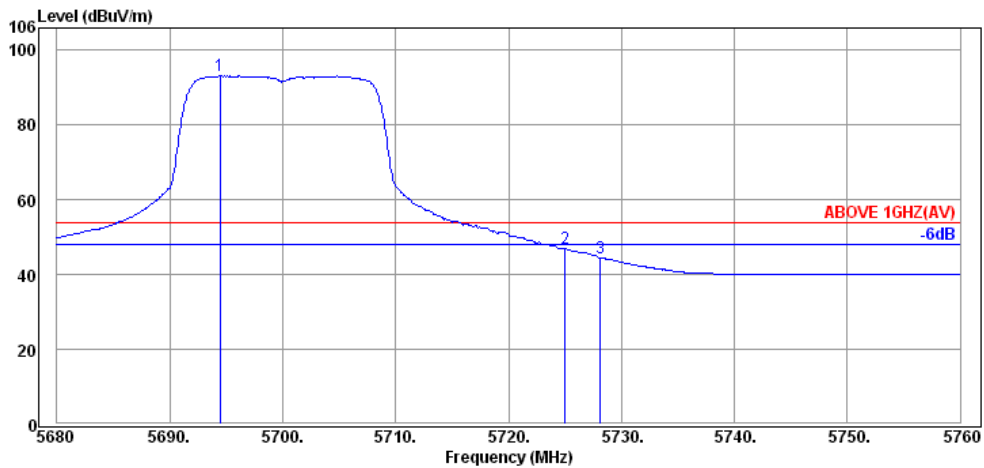
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.04	35.03	10.50	39.97	85.50	54.00	---	Average
5725.04	35.07	10.52	-5.05	40.54	54.00	13.46	Average
5728.16	35.07	10.52	-5.50	40.09	54.00	13.91	Average

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5700MHz



Antenna at Vertical Polarization

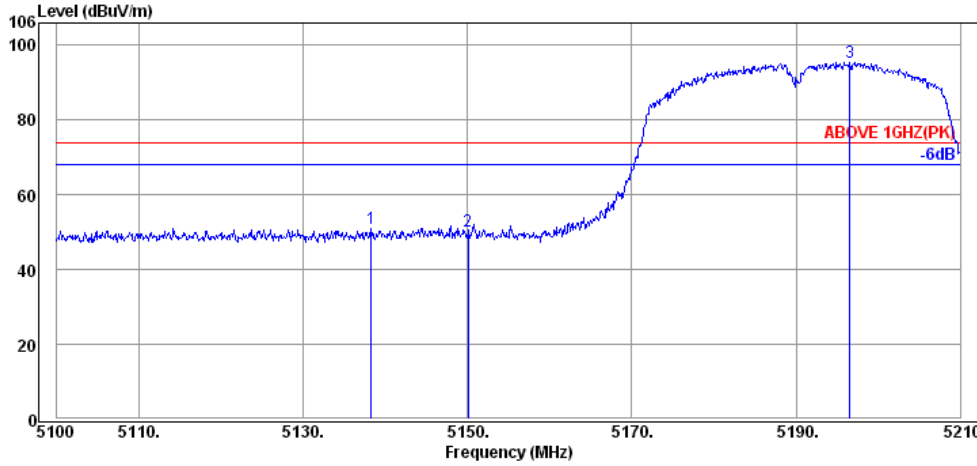
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5699.52	35.03	10.50	58.35	103.88	74.00	---	Peak
5725.04	35.07	10.52	14.74	60.33	74.00	13.67	Peak
5728.16	35.07	10.52	14.39	59.98	74.00	14.02	Peak



Antenna at Vertical Polarization

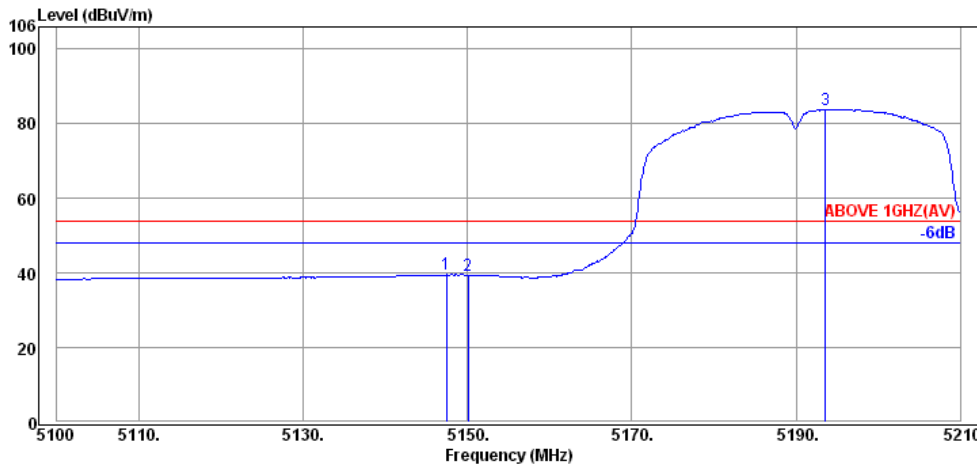
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5694.48	35.03	10.50	47.60	93.13	54.00	---	Average
5725.04	35.07	10.52	1.25	46.84	54.00	7.16	Average
5728.16	35.07	10.52	-1.00	44.59	54.00	9.41	Average

Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



Antenna at Horizontal Polarization

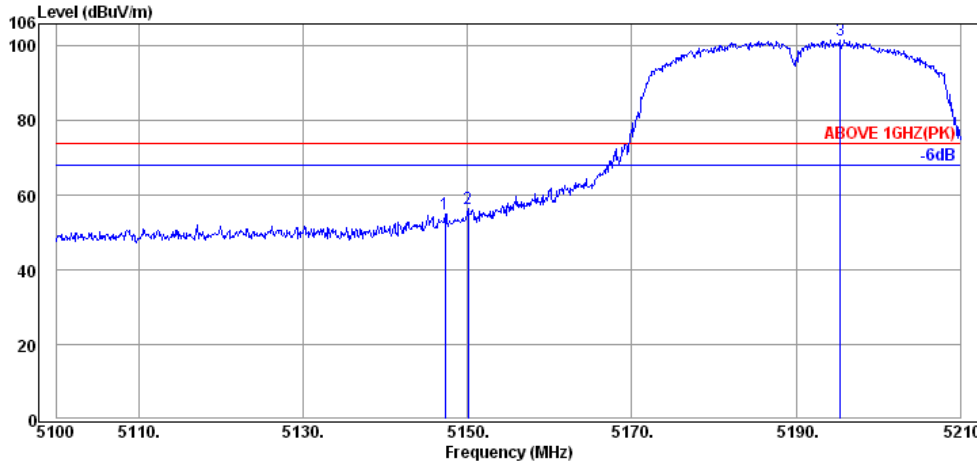
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5138.28	34.43	9.81	6.83	51.07	74.00	22.93	Peak
5150.05	34.45	9.83	5.97	50.25	74.00	23.75	Peak
5196.58	34.50	9.91	51.13	95.54	---	---	Peak



Antenna at Horizontal Polarization

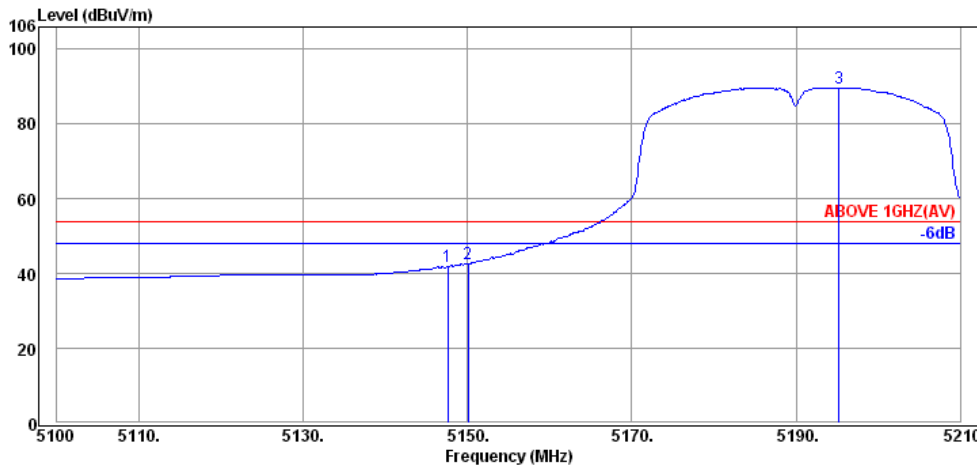
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.41	34.45	9.83	-4.73	39.55	54.00	14.45	Average
5150.05	34.45	9.83	-4.85	39.43	54.00	14.57	Average
5193.61	34.50	9.91	39.47	83.88	---	---	Average

Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



Antenna at Vertical Polarization

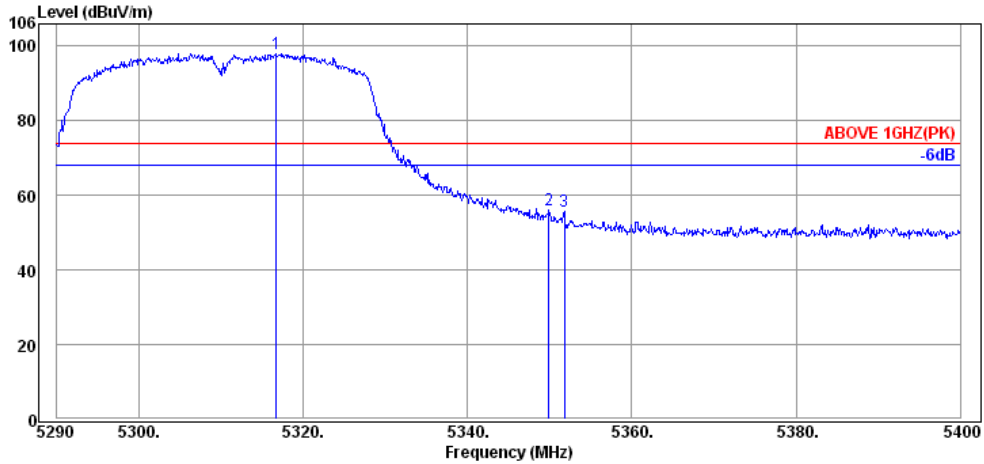
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.30	34.45	9.83	10.73	55.01	74.00	18.99	Peak
5150.05	34.45	9.83	12.32	56.60	74.00	17.40	Peak
5195.37	34.50	9.91	57.22	101.63	---	---	Peak



Antenna at Vertical Polarization

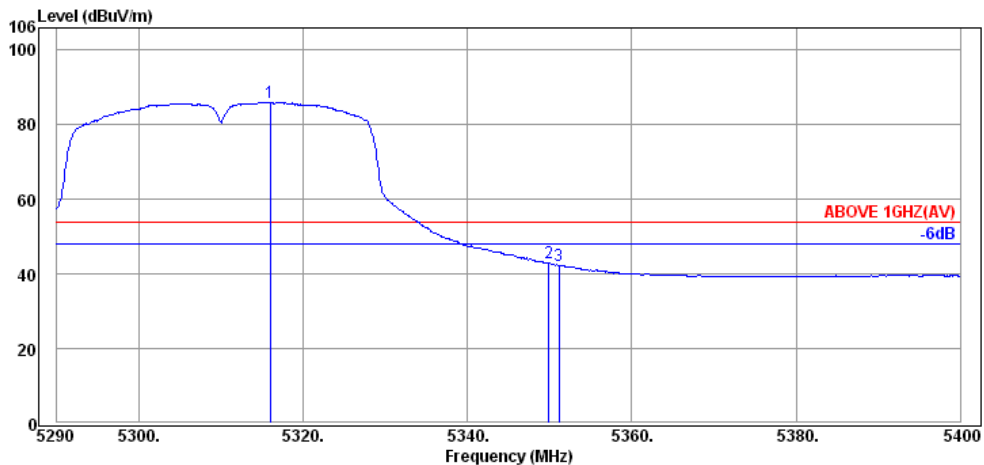
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.63	34.45	9.83	-2.37	41.91	54.00	12.09	Average
5150.05	34.45	9.83	-1.57	42.71	54.00	11.29	Average
5195.26	34.50	9.91	45.35	89.76	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



Antenna at Horizontal Polarization

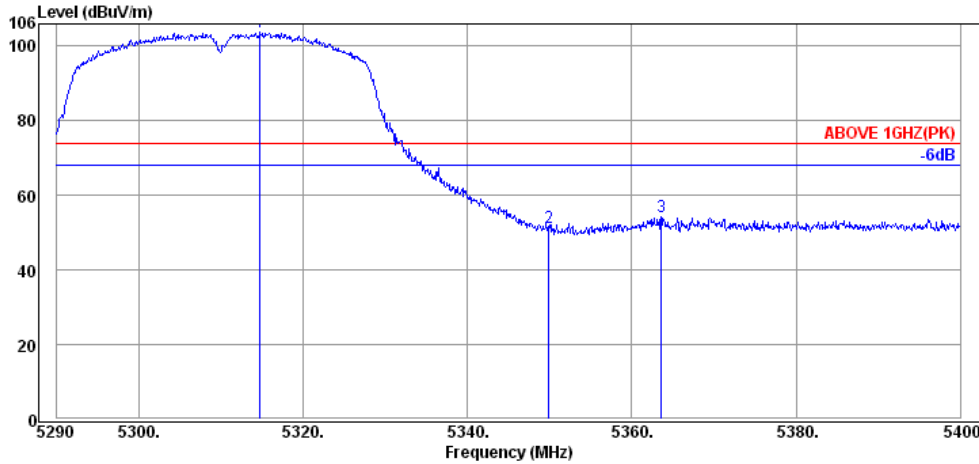
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5316.73	34.62	10.08	53.34	98.04	---	---	Peak
5349.95	34.65	10.13	11.19	55.97	74.00	18.03	Peak
5351.82	34.65	10.13	11.12	55.90	74.00	18.10	Peak



Antenna at Horizontal Polarization

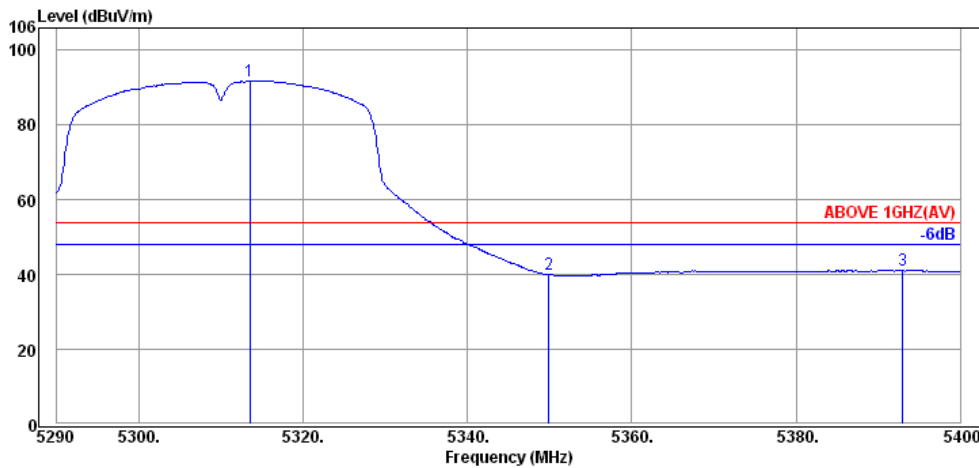
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.96	34.62	10.08	41.28	85.98	---	---	Average
5349.95	34.65	10.13	-1.97	42.81	54.00	11.19	Average
5351.16	34.65	10.13	-2.45	42.33	54.00	11.67	Average

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



Antenna at Vertical Polarization

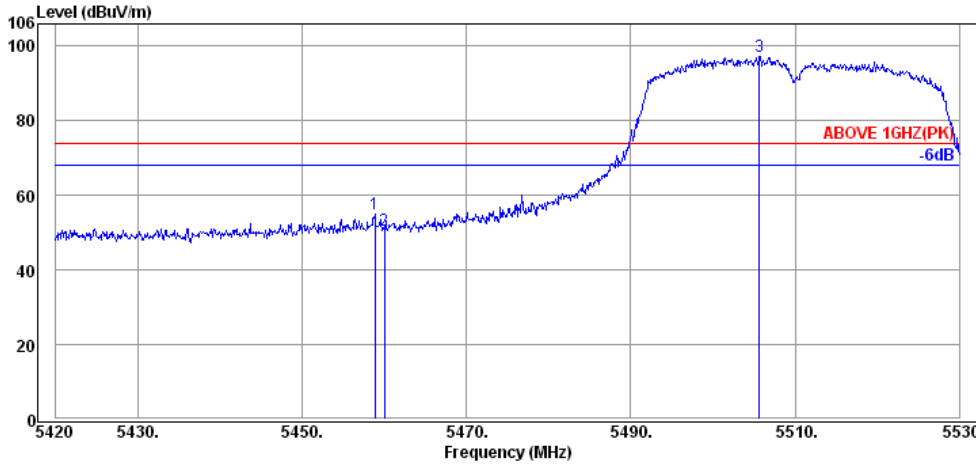
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5314.75	34.62	10.08	58.98	103.68	---	---	Peak
5349.95	34.65	10.13	6.60	51.38	74.00	22.62	Peak
5363.59	34.67	10.15	9.48	54.30	74.00	19.70	Peak



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
5313.54	34.62	10.08	47.07	91.77	---	---	Average
5349.95	34.65	10.13	-4.80	39.98	54.00	14.02	Average
5392.96	34.68	10.18	-3.78	41.08	54.00	12.92	Average

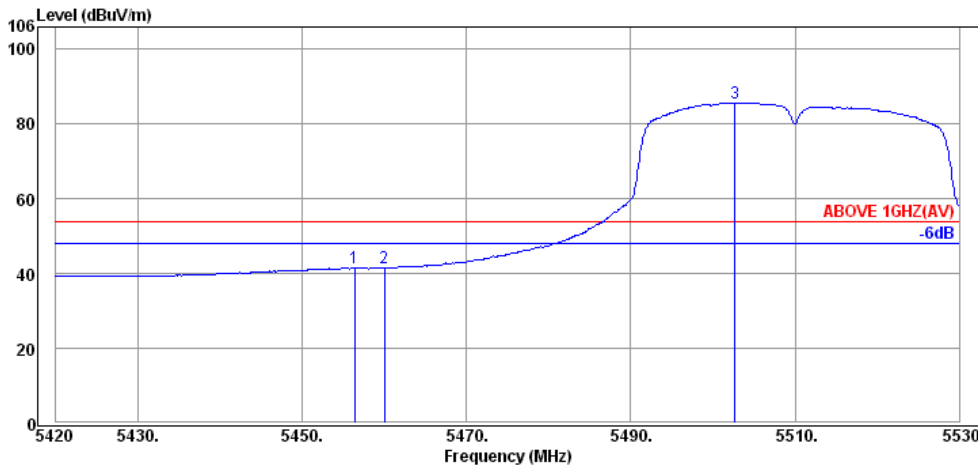
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



1

Antenna at Horizontal Polarization

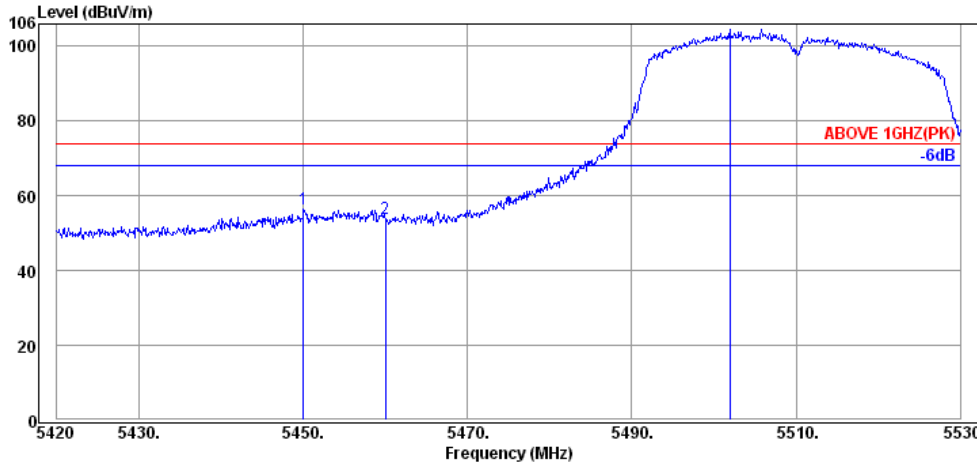
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.83	34.75	10.28	9.81	54.84	74.00	19.16	Peak
5460.04	34.75	10.28	5.42	50.45	74.00	23.55	Peak
5505.69	34.80	10.35	52.27	97.42	---	---	Peak



Antenna at Horizontal Polarization

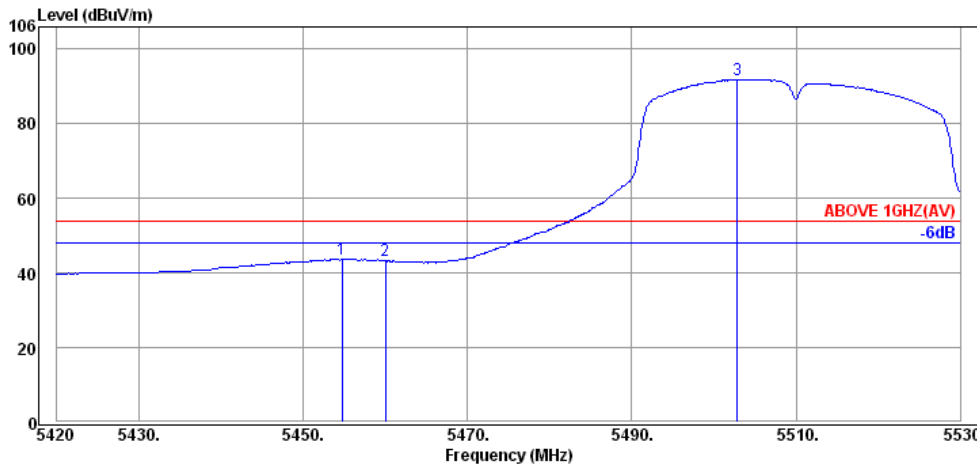
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5456.41	34.75	10.28	-3.54	41.49	54.00	12.51	Average
5460.04	34.75	10.28	-3.38	41.65	54.00	12.35	Average
5502.72	34.80	10.35	40.63	85.78	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



Antenna at Vertical Polarization

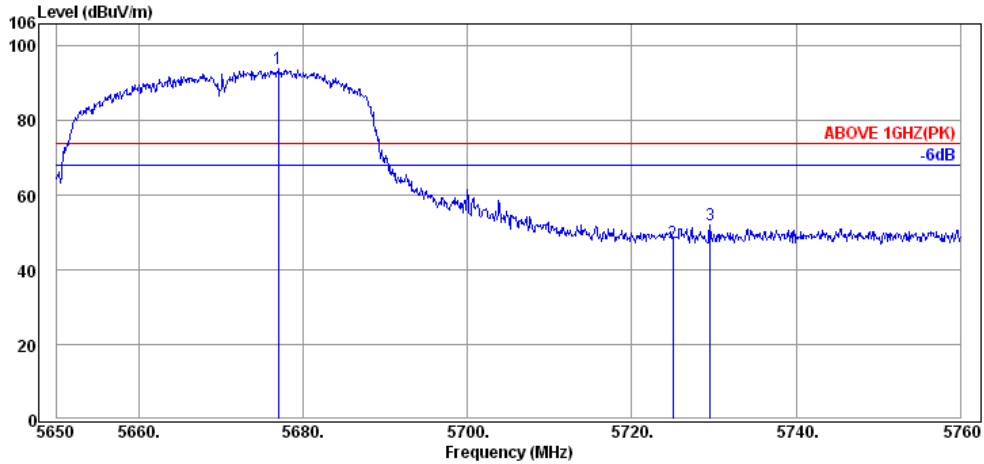
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5450.03	34.75	10.28	11.33	56.36	74.00	17.64	Peak
5460.04	34.75	10.28	8.93	53.96	74.00	20.04	Peak
5501.95	34.80	10.35	59.43	104.58	---	---	Peak



Antenna at Vertical Polarization

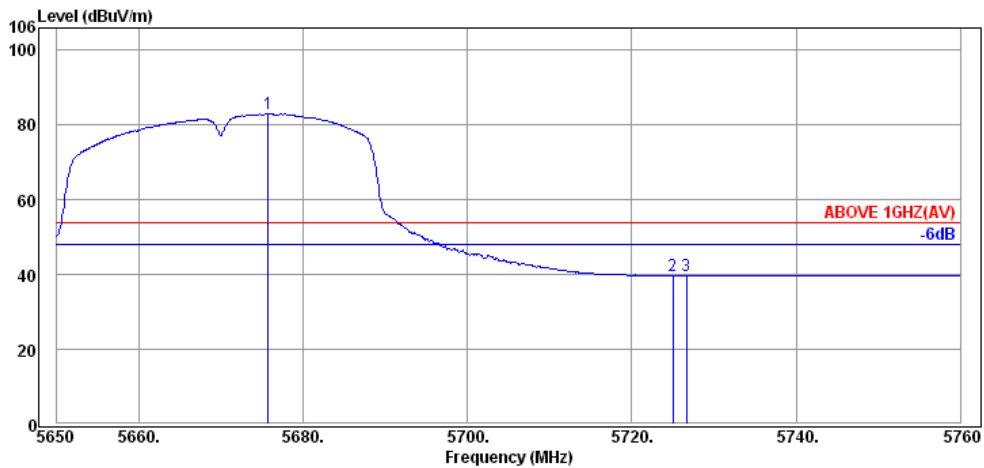
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5454.76	34.75	10.28	-1.34	43.69	54.00	10.31	Average
5460.04	34.75	10.28	-1.80	43.23	54.00	10.77	Average
5502.83	34.80	10.35	46.78	91.93	---	---	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz



Antenna at Horizontal Polarization

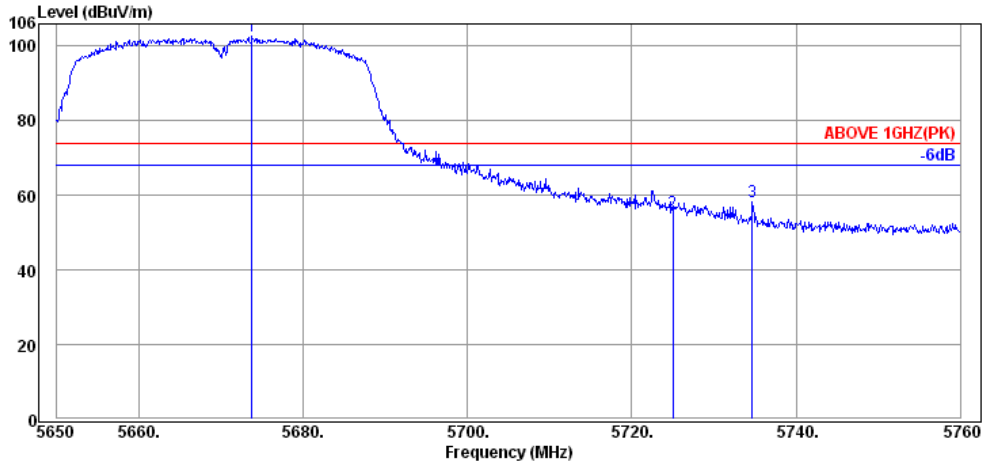
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5676.95	35.01	10.48	48.31	93.80	74.00	---	Peak
5725.02	35.07	10.52	1.90	47.49	74.00	26.51	Peak
5729.53	35.07	10.52	6.50	52.09	74.00	21.91	Peak



Antenna at Horizontal Polarization

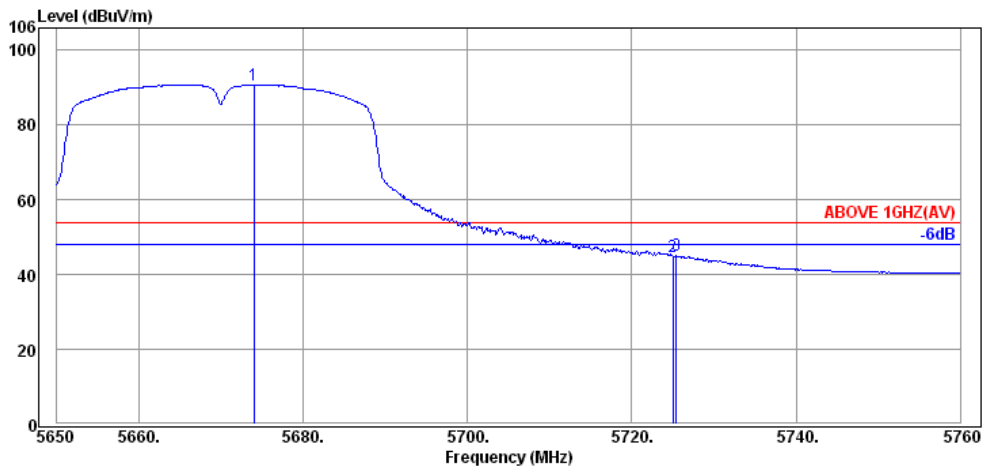
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5675.74	35.01	10.48	37.48	82.97	54.00	---	Average
5725.02	35.07	10.52	-5.72	39.87	54.00	14.13	Average
5726.67	35.07	10.52	-5.72	39.87	54.00	14.13	Average

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz



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
5673.76	35.01	10.48	57.20	102.69	74.00	---	Peak
5725.02	35.07	10.52	9.83	55.42	74.00	18.58	Peak
5734.70	35.09	10.54	12.71	58.34	74.00	15.66	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5673.98	35.01	10.48	45.25	90.74	54.00	---	Average
5725.02	35.07	10.52	-0.76	44.83	54.00	9.17	Average
5725.46	35.07	10.52	-0.52	45.07	54.00	8.93	Average

A.2.2 Emissions outside the frequency band

The emissions (up to 40GHz) not reported for there is no emission be found.

● **Antenna: PCB Antenna**

Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10400.00	37.62	15.77	-2.74	50.65	54.00	3.35	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10400.00	37.62	15.77	-0.13	53.26	54.00	0.74	Peak

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-0.92	52.55	54.00	1.45	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-3.29	50.18	54.00	3.82	Peak

Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11000.00	37.80	15.71	-2.44	51.07	54.00	2.93	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10990.00	37.80	15.71	-11.82	41.69	54.00	12.31	Average
10990.00	37.80	15.71	0.58	54.09	74.00	19.91	Peak

Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	-13.11	41.65	54.00	12.35	Average
11570.00	38.56	16.20	-0.72	54.04	74.00	19.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	-6.42	48.34	54.00	5.66	Average
11570.00	38.56	16.20	5.97	60.73	74.00	13.27	Peak

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5300MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-2.37	51.10	54.00	2.90	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10610.00	37.72	15.75	-0.52	52.95	54.00	1.05	Peak

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5580MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11160.00	38.03	15.85	-2.85	51.03	54.00	2.97	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11160.00	38.03	15.85	-7.92	45.96	54.00	8.04	Average
11160.00	38.03	15.85	2.28	56.16	74.00	17.84	Peak

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5270MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10550.00	37.71	15.75	-2.16	51.30	54.00	2.70	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10550.00	37.71	15.75	0.24	53.70	54.00	0.30	Average

● Antenna: Omni-S Antenna

Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10390.00	37.61	15.77	-0.33	53.05	54.00	0.95	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10400.00	37.62	15.77	-4.55	48.84	54.00	5.16	Average
10400.00	37.62	15.77	5.65	59.04	74.00	14.96	Peak

Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-1.34	52.13	54.00	1.87	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-7.19	46.28	54.00	7.72	Average
10600.00	37.72	15.75	3.00	56.47	74.00	17.53	Peak

Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11560.00	38.54	16.19	-11.32	43.41	54.00	10.59	Average
11560.00	38.54	16.19	0.71	55.44	74.00	18.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	-4.64	50.12	54.00	3.88	Average
11570.00	38.56	16.20	7.39	62.15	74.00	11.85	Peak

Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5240MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10480.00	37.69	15.76	-1.65	51.80	54.00	2.20	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10480.00	37.69	15.76	-8.06	45.39	54.00	8.61	Average
10480.00	37.69	15.76	3.02	56.47	74.00	17.53	Peak

Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5300MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10590.00	37.72	15.75	-9.92	43.55	54.00	10.45	Average
10590.00	37.72	15.75	0.95	54.42	74.00	19.58	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10600.00	37.72	15.75	-6.67	46.80	54.00	7.20	Average
10600.00	37.72	15.75	4.20	57.67	74.00	16.33	Peak

Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5580MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11160.00	38.03	15.85	-8.53	45.35	54.00	8.65	Average
11160.00	38.03	15.85	1.68	55.56	74.00	18.44	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11160.00	38.03	15.85	-7.47	46.41	54.00	7.59	Average
11160.00	38.03	15.85	2.80	56.68	74.00	17.32	Peak

Mode	802.11n-HT20	UNII Band	III
		Frequency	TX 5825MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11660.00	38.62	16.27	-6.10	48.79	54.00	5.21	Average
11660.00	38.62	16.27	3.10	57.99	74.00	16.01	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
11660.00	38.62	16.27	-3.50	51.39	54.00	2.61	Average
11660.00	38.62	16.27	5.73	60.62	74.00	13.38	Peak

Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5230MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10450.00	37.66	15.76	-3.22	50.20	54.00	3.80	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10450.00	37.66	15.76	-9.16	44.26	54.00	9.74	Average
10450.00	37.66	15.76	1.59	55.01	74.00	18.99	Peak

Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5270MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10530.00	37.71	15.76	-0.24	53.23	54.00	0.77	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
10530.00	37.71	15.76	-7.55	45.92	54.00	8.08	Average
10530.00	37.71	15.76	4.17	57.64	74.00	16.36	Peak

Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz

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
11350.00	38.29	16.01	-2.83	51.47	54.00	2.53	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
11350.00	38.29	16.01	-9.68	44.62	54.00	9.38	Average
11350.00	38.29	16.01	1.85	56.15	74.00	17.85	Peak

A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to KDB 789033 D02 General UNII Test Procedures New Rules v01r04 that emission levels below the 15.209 general radiated emissions limits is not required.

A.3 EMISSION BANDWIDTH

Test Date	2017/09/27	Temp./Hum.	23°C/55%
Cable Loss	---	Test Voltage	DC 3.3V (through jig via Notebook PC)

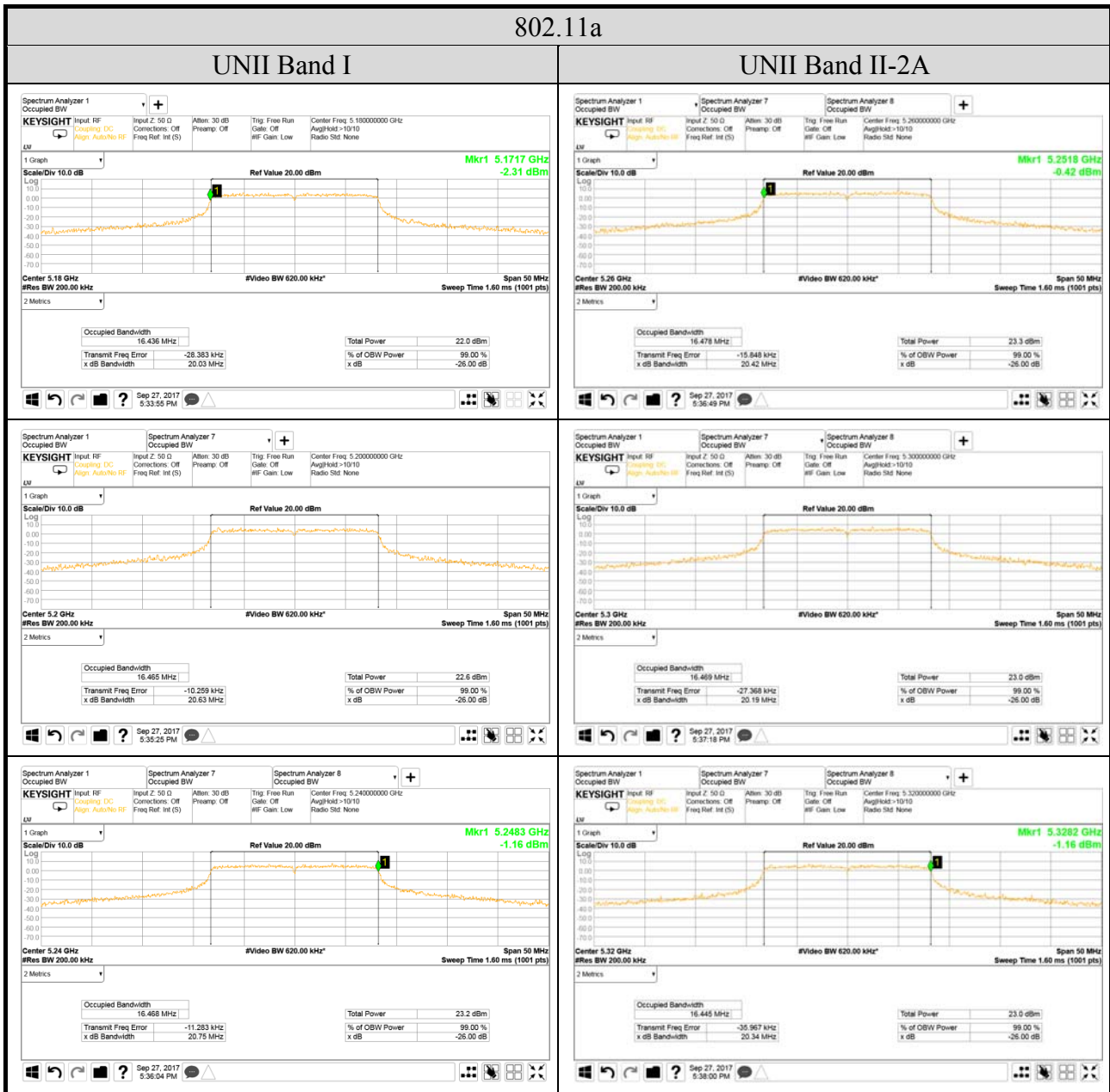
A.3.1 Emission Bandwidth Result

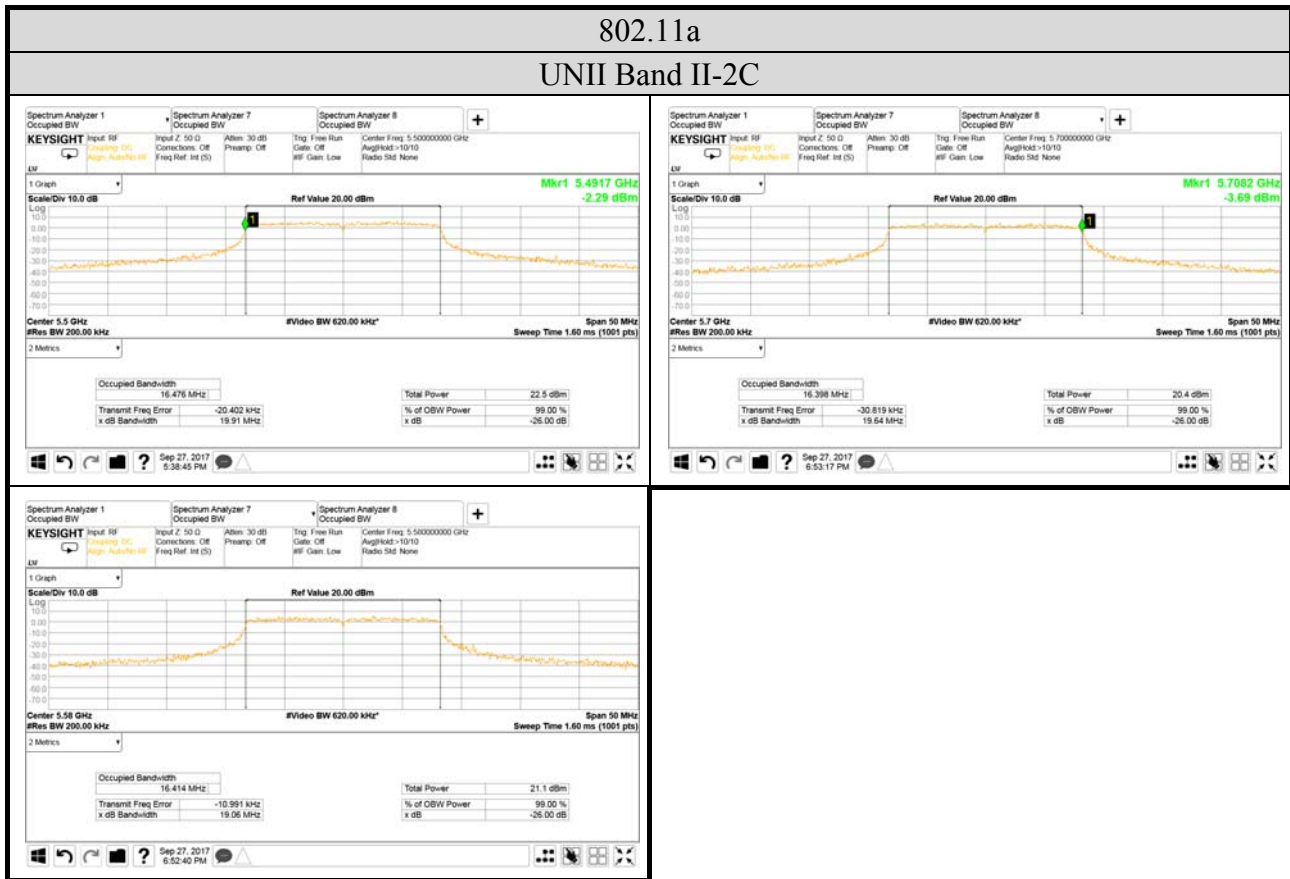
Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	20.03	16.436	Reference only
		5200	20.63	16.465	
		5240	20.75	16.468	
	II-2A	5260	20.42	16.478	
		5300	20.19	16.469	
		5320	20.34	16.445	
	II-2C	5500	19.91	16.476	
		5580	19.06	16.414	
		5700	19.64	16.398	
802.11n- HT20	I	5180	19.55	17.622	Reference only
		5200	20.26	17.628	
		5240	20.21	17.649	
	II-2A	5260	19.31	17.620	
		5300	20.00	17.651	
		5320	19.40	17.642	
	II-2C	5500	19.80	17.655	
		5580	20.57	17.663	
		5700	21.08	17.665	

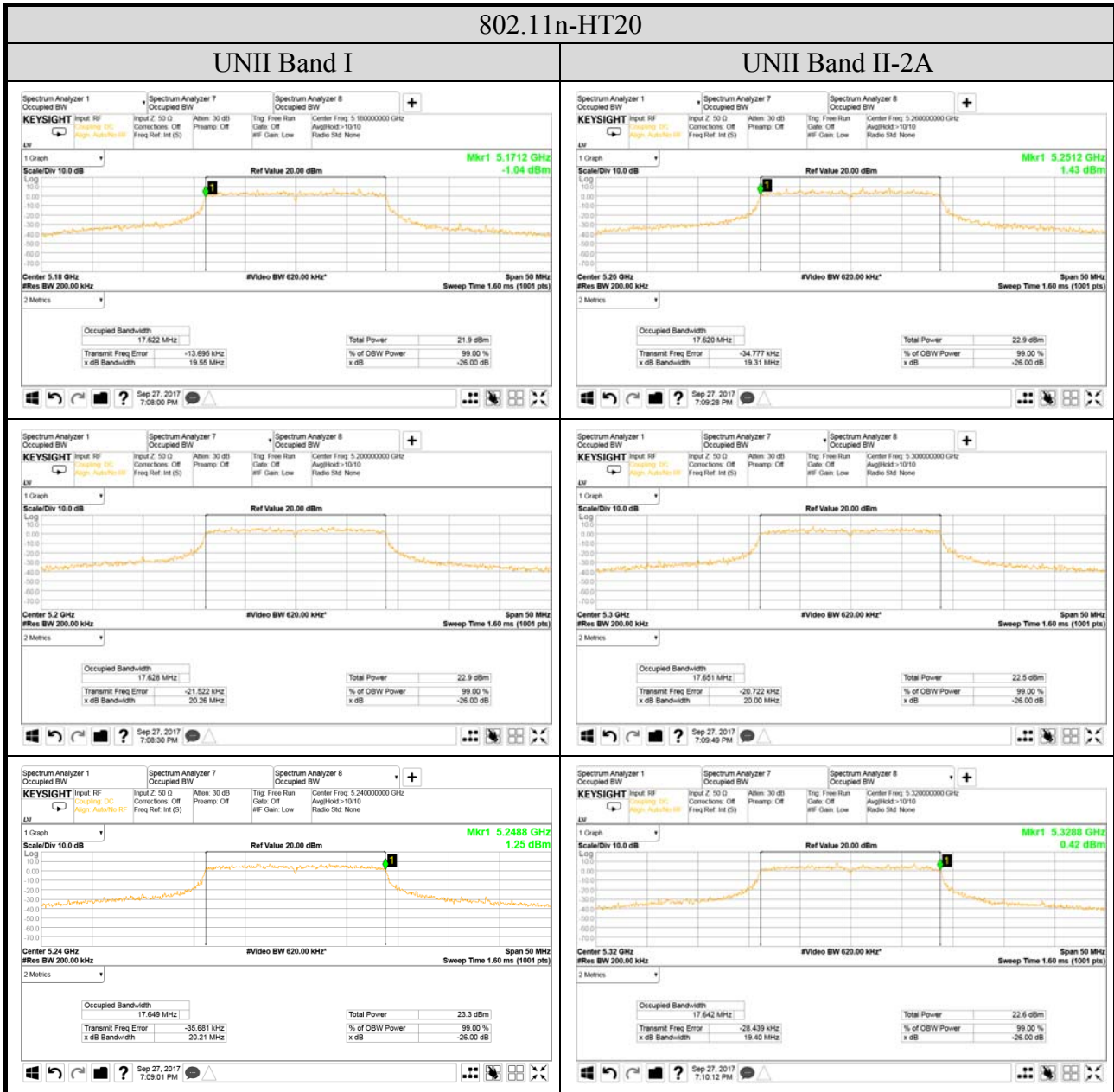
Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11n- HT40	I	5190	40.29	35.573	Reference only
		5230	38.01	35.575	
	II-2A	5270	41.22	35.600	
		5310	40.20	35.548	
	II-2C	5510	39.28	35.624	
		5590	41.05	35.778	
		5670	39.92	35.564	

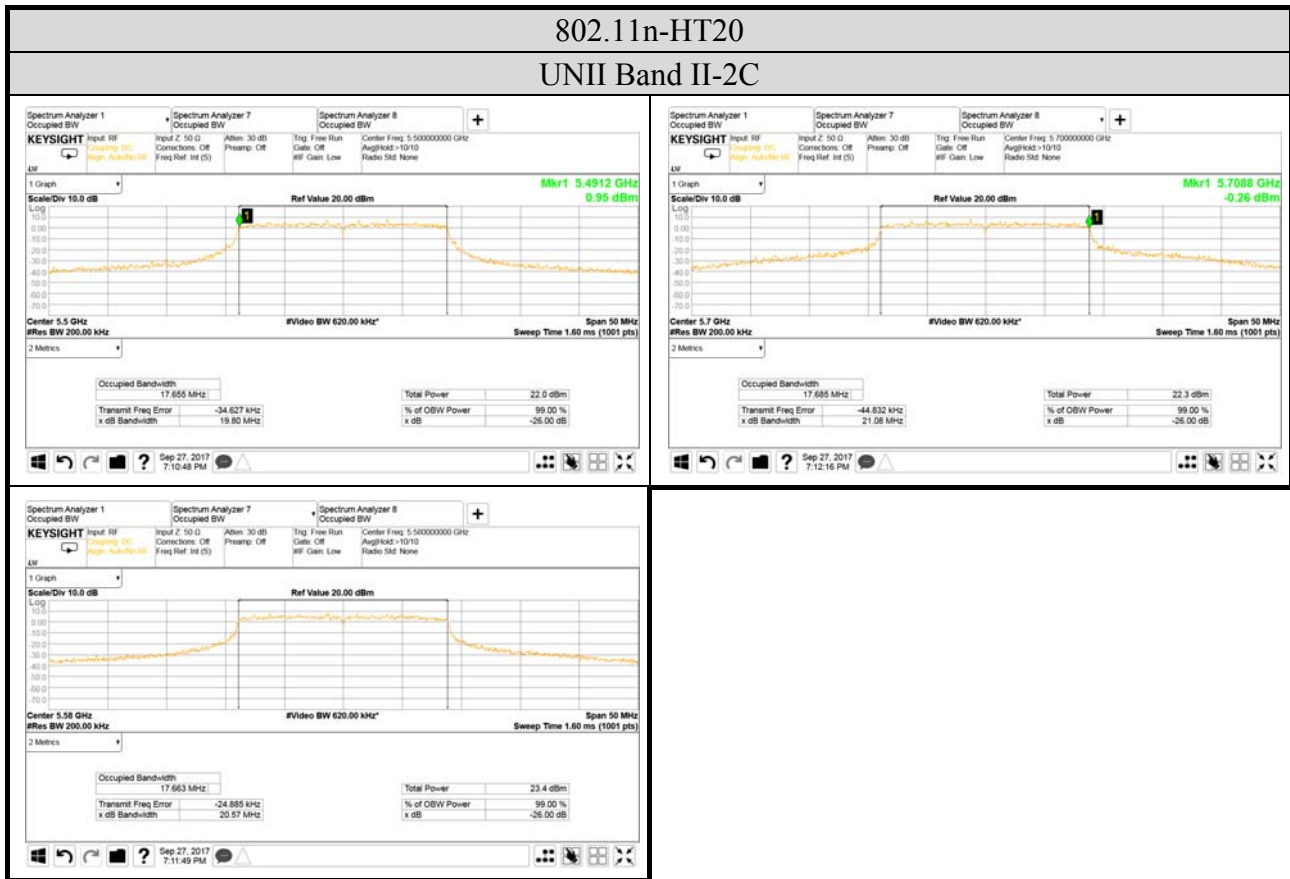
Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	16.39	≥ 500kHz
		5785	16.38	
		5825	16.36	
802.11n- HT20	III	5745	17.64	
		5785	17.56	
		5825	17.62	
802.11n- HT40	III	5755	32.65	
		5795	32.58	

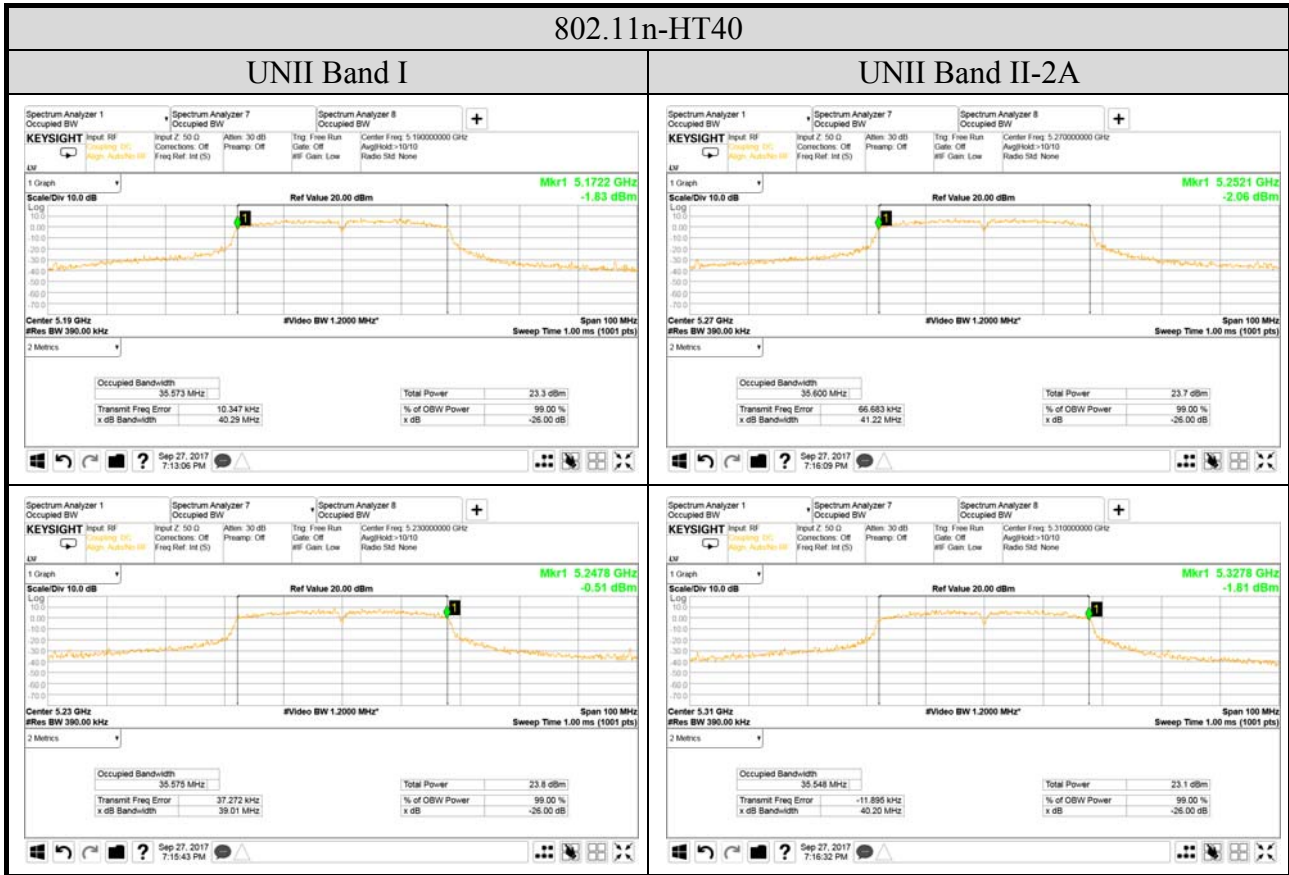
A.3.2 Measurement Plots

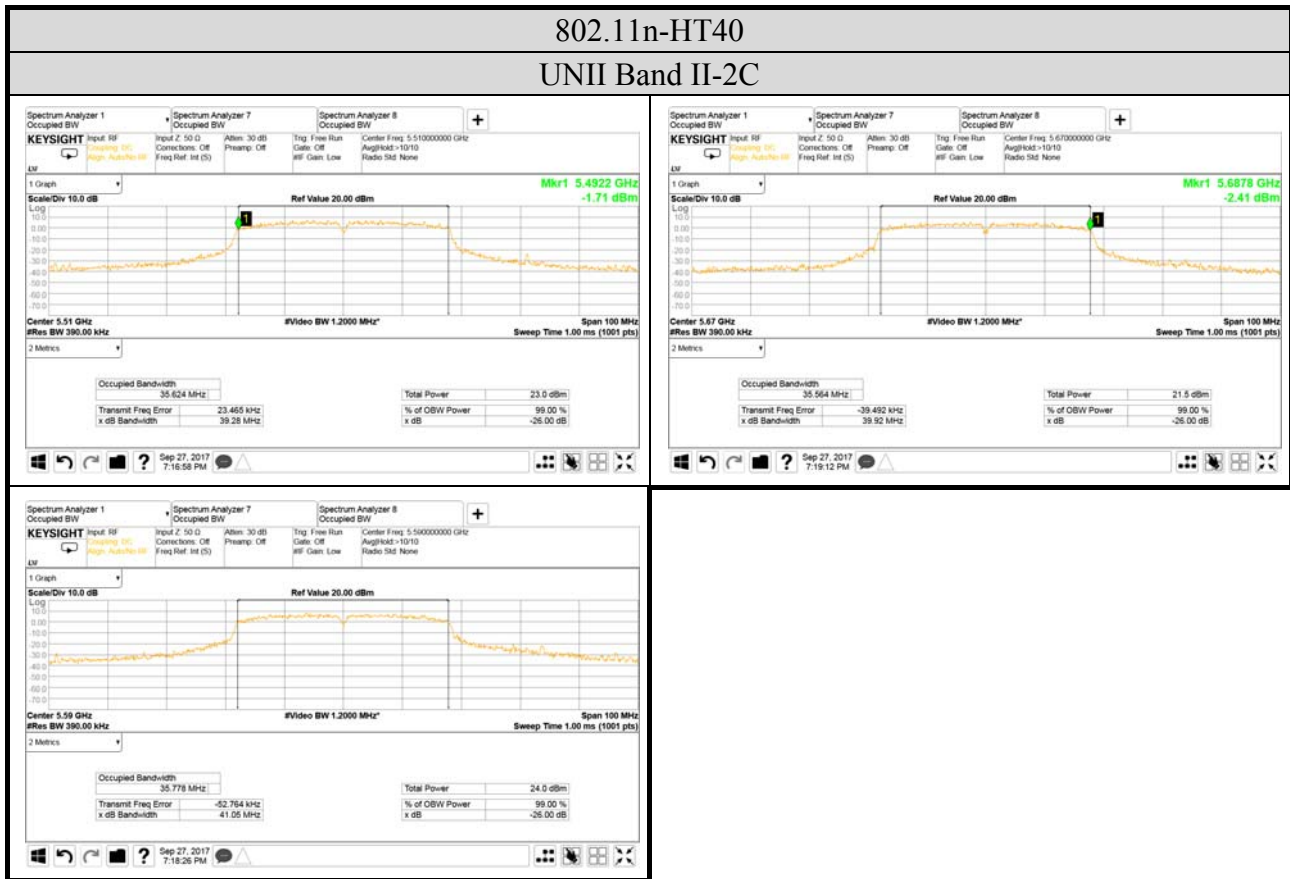


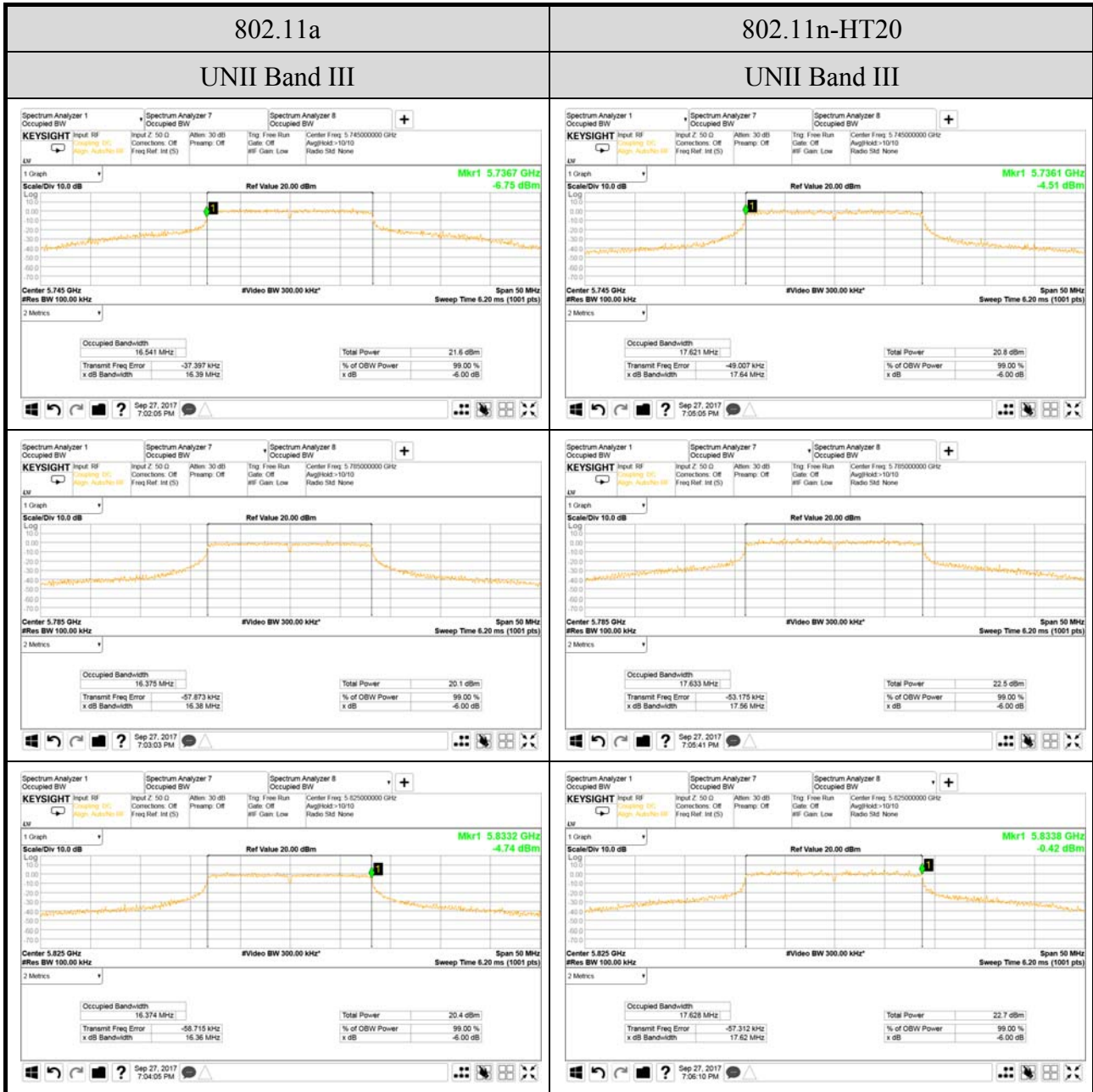






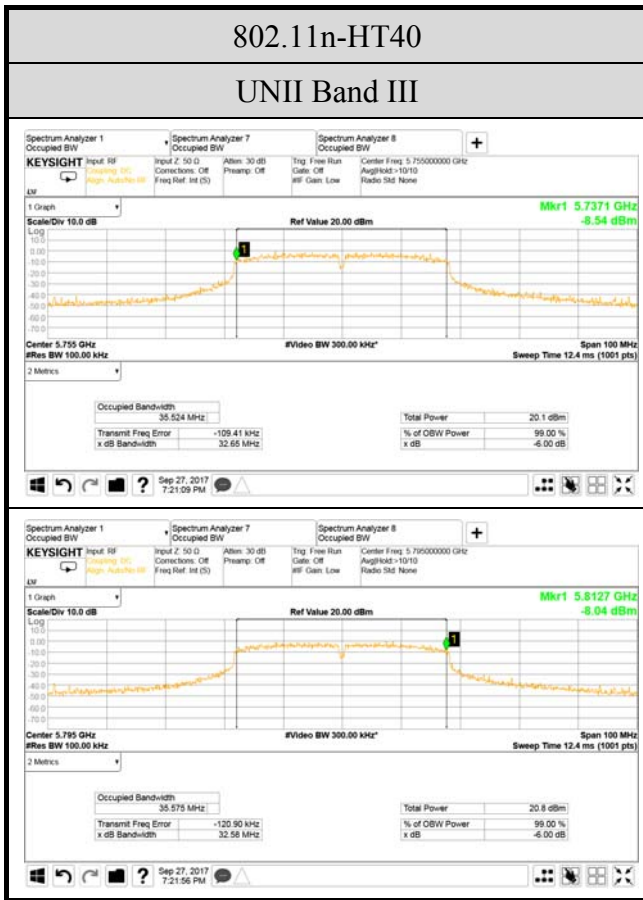






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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2017/09/28	Temp./Hum.	24°C/53%
Cable Loss	1.4dB for Band I, II-2A 1.6dB for Band II-2C, III	Test Voltage	DC 3.3V (through jig via Notebook PC)

A.4.1 Average Output Power

● Antenna: PCB Antenna

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	I	5180	15.83	16.36	0	19.11	0.081470	< 250 mW (24 dBm)
		5200	17.56	18.52		21.08	0.128233	
		5240	17.95	18.34		21.16	0.130617	
	II-2A	5260	18.11	17.91		21.02	0.126474	
		5300	18.28	18.00		21.15	0.130317	
		5320	17.11	17.82		20.49	0.111944	
	II-2C	5500	16.72	15.80		19.29	0.084918	
		5580	16.13	16.42		19.29	0.084918	
		5700	15.90	15.12		18.54	0.071450	
	III	5745	16.32	14.90		18.68	0.073790	< 1 W (30 dBm)
		5785	18.25	16.27		20.38	0.109144	
		5825	17.21	16.03		19.67	0.092683	
802.11n- HT20	I	5180	15.31	15.95	0.18	18.66	0.073451	< 250 mW (24 dBm)
		5200	17.11	16.24		19.72	0.093756	
		5240	17.63	16.05		19.93	0.098401	
	II-2A	5260	17.25	15.97		19.68	0.092897	
		5300	17.46	16.04		19.83	0.096161	
		5320	16.21	17.25		19.78	0.095060	
	II-2C	5500	16.54	15.68		19.15	0.082224	
		5580	16.64	15.63		19.18	0.082794	
		5700	15.63	13.25		17.62	0.057810	
	III	5745	16.52	13.82		18.40	0.069183	< 1 W (30 dBm)
		5785	16.31	14.25		18.42	0.069502	
		5825	16.67	14.53		18.75	0.074989	

Note: The results have been included cable loss.

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT40	I	5190	14.08	14.46	0.32	17.60	0.057544	< 250 mW (24 dBm)
		5230	15.14	12.81		17.45	0.055590	
	II-2A	5270	17.51	16.10		20.19	0.104472	
		5310	17.12	17.95		20.88	0.122462	
	II-2C	5510	15.08	15.68		18.72	0.074473	
		5590	16.39	14.73		18.96	0.078705	
		5670	13.46	14.01		17.07	0.050933	
	III	5755	15.51	13.52		17.95	0.062373	< 1 W (30 dBm)
		5795	16.08	14.12		18.54	0.071450	

Note: The results have been included cable loss.

Antenna: Omni-S Antenna

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power				Limit	
			Chain 0	Chain 1		Chain 0		Chain 1			
						(dBm)	(W)	(dBm)	(W)		
802.11a	I	5180	17.11	18.24	0	17.11	0.051404	18.24	0.066681	< 158 mW (22 dBm) Note 2	
		5200	17.56	18.52		17.56	0.057016	18.52	0.071121		
		5240	17.95	18.34		17.95	0.062373	18.34	0.068234		
	II-2A	5260	18.11	17.91		18.11	0.064714	17.91	0.061802		
		5300	18.28	18.00		18.28	0.067298	18.00	0.063096		
		5320	17.90	18.01		17.90	0.061660	18.01	0.063241		
	II-2C	5500	16.72	15.80		16.72	0.046989	15.80	0.038019		
		5600	16.13	16.42		16.13	0.041020	16.42	0.043853		
		5700	15.90	15.12		15.90	0.038905	15.12	0.032509		
	III	5745	16.32	14.90		16.32	0.042855	14.90	0.030903		
		5785	18.25	16.27		18.25	0.066834	16.27	0.042364		< 0.631 W (28 dBm) Note 3
		5825	17.21	16.03		17.21	0.052602	16.03	0.040087		

Note 1: The results have been included cable loss.

Note 2: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 24 – (8-6) = 22 dBm

Note 3: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 30 – (8-6) = 28 dBm

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power				Limit
			Chain 0	Chain 1		Chain 0		Chain 1		
						(dBm)	(W)	(dBm)	(W)	
802.11n-HT20	I	5180	17.68	17.11	0	17.68	0.058614	17.11	0.051404	< 158 mW (22 dBm) Note 2
		5200	18.05	16.93		18.05	0.063826	16.93	0.049317	
		5240	18.14	16.91		18.14	0.065163	16.91	0.049091	
	II-2A	5260	17.87	16.83		17.87	0.061235	16.83	0.048195	
		5300	18.17	16.87		18.17	0.065615	16.87	0.048641	
		5320	17.75	16.60		17.75	0.059566	16.60	0.045709	
	II-2C	5500	16.54	15.68		16.54	0.045082	15.68	0.036983	
		5600	16.64	15.63		16.64	0.046132	15.63	0.036559	
		5700	15.63	13.25		15.63	0.036559	13.25	0.021135	
	III	5745	16.52	13.82		16.52	0.044875	13.82	0.024099	
		5785	16.31	14.25		16.31	0.042756	14.25	0.026607	< 0.631 W (28 dBm) Note 3
		5825	16.67	14.53		16.67	0.046452	14.53	0.028379	

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power				Limit
			Chain 0	Chain 1		Chain 0		Chain 1		
						(dBm)	(W)	(dBm)	(W)	
802.11n-HT40	I	5190	14.22	13.12	0.13	14.35	0.027227	13.25	0.021135	< 158 mW (22 dBm) Note 2
		5230	15.14	12.81		15.27	0.033651	12.94	0.019679	
	II-2A	5270	17.51	16.10		17.64	0.058076	16.23	0.041976	
		5310	17.13	16.26		17.26	0.053211	16.39	0.043551	
	II-2C	5510	15.24	15.10		15.37	0.034435	15.23	0.033343	
		5590	16.39	14.73		16.52	0.044875	14.86	0.030620	
		5670	16.44	13.53		16.57	0.045394	13.66	0.023227	
	III	5755	15.51	13.52		15.64	0.036644	13.65	0.023174	< 0.631 W (28 dBm) Note 3
		5795	16.08	14.12		16.21	0.041783	14.25	0.026607	

Note 1: The results have been included cable loss.

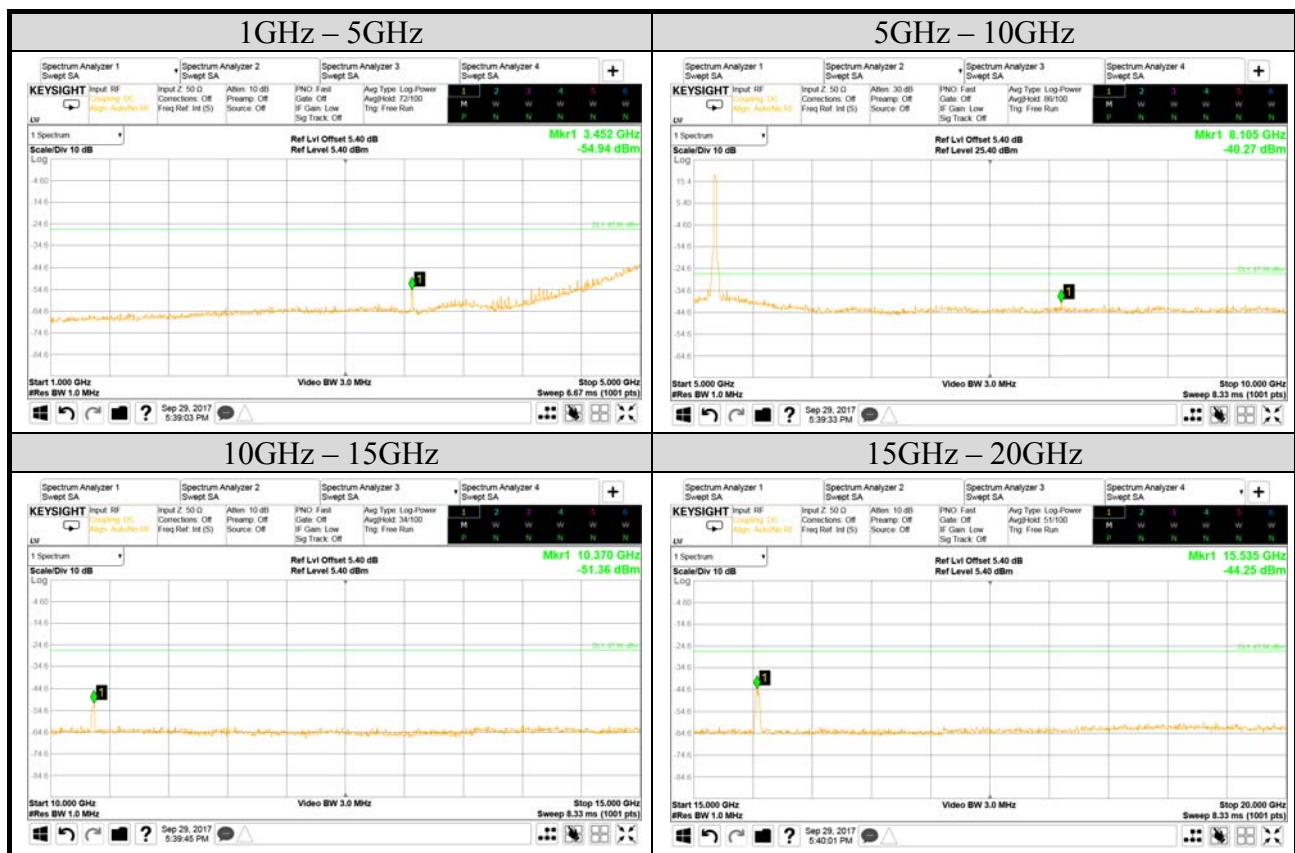
Note 2: 802.11n Directional gain is 8dBi > 6dBi, the Limit is 24 – (8-6) = 22 dBm

Note 3: 802.11n Directional gain is 8dBi > 6dBi, the Limit is 30 – (8-6) = 28 dBm

A.5 EMISSION LIMITATIONS MEASUREMENT

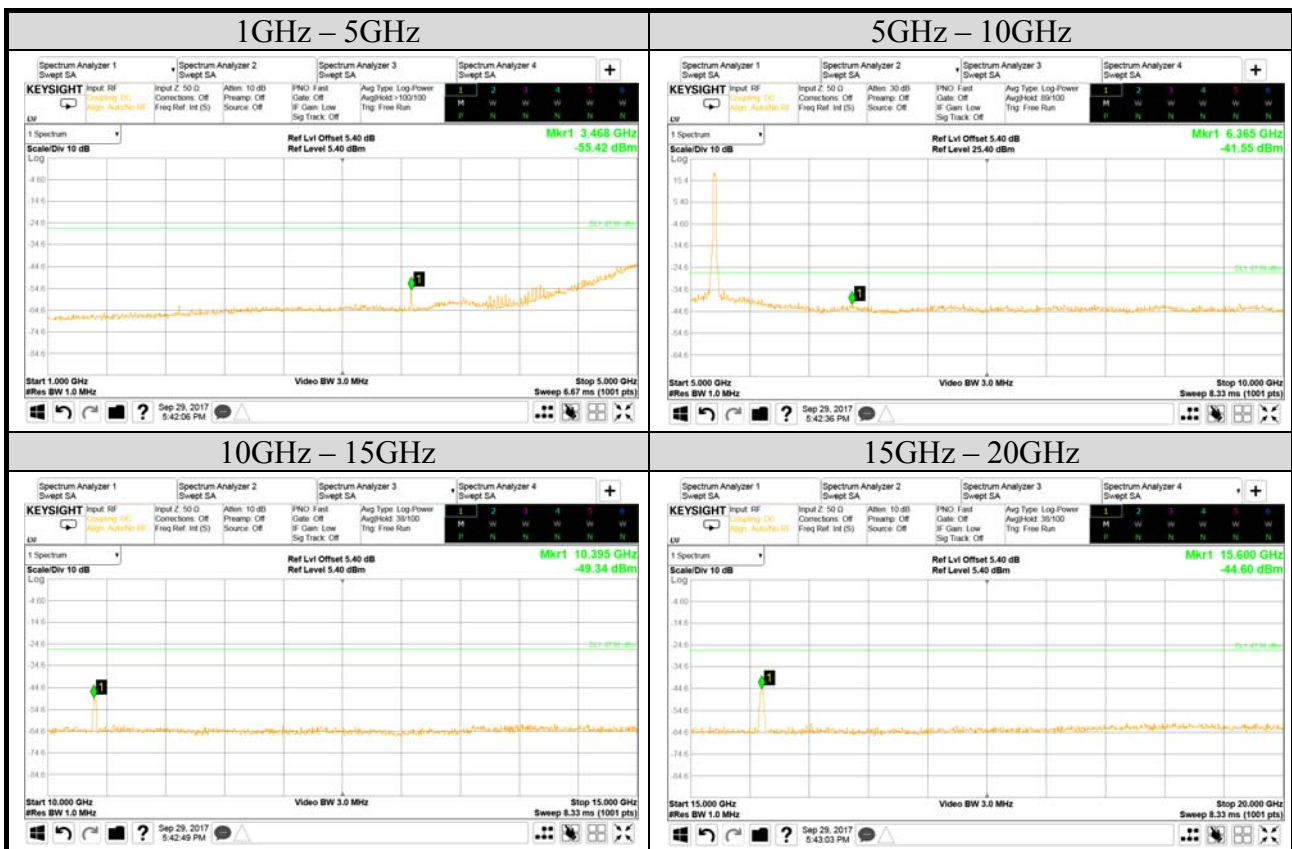
● Antenna: PCB Antenna

Test Date	2017/09/29	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3



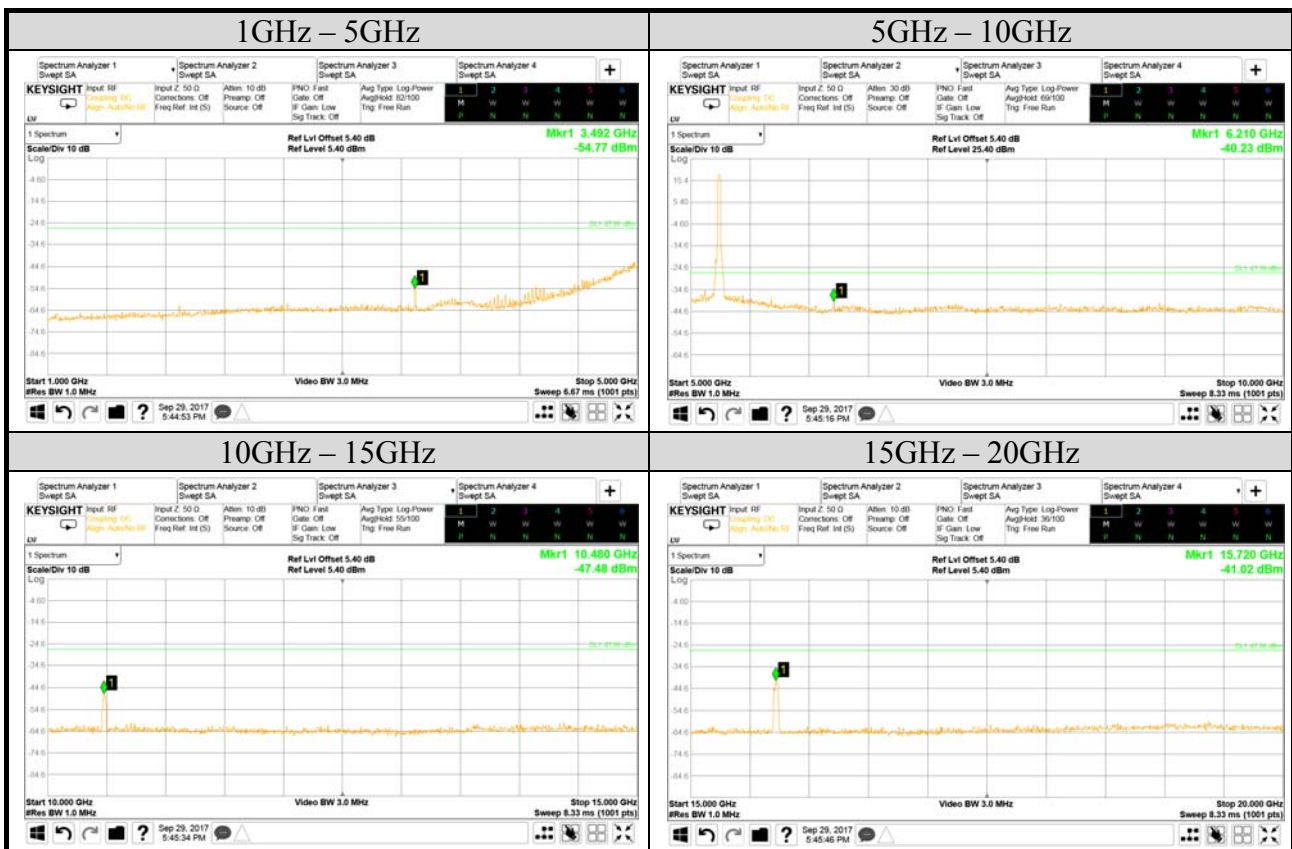


Test Date	2017/09/29	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



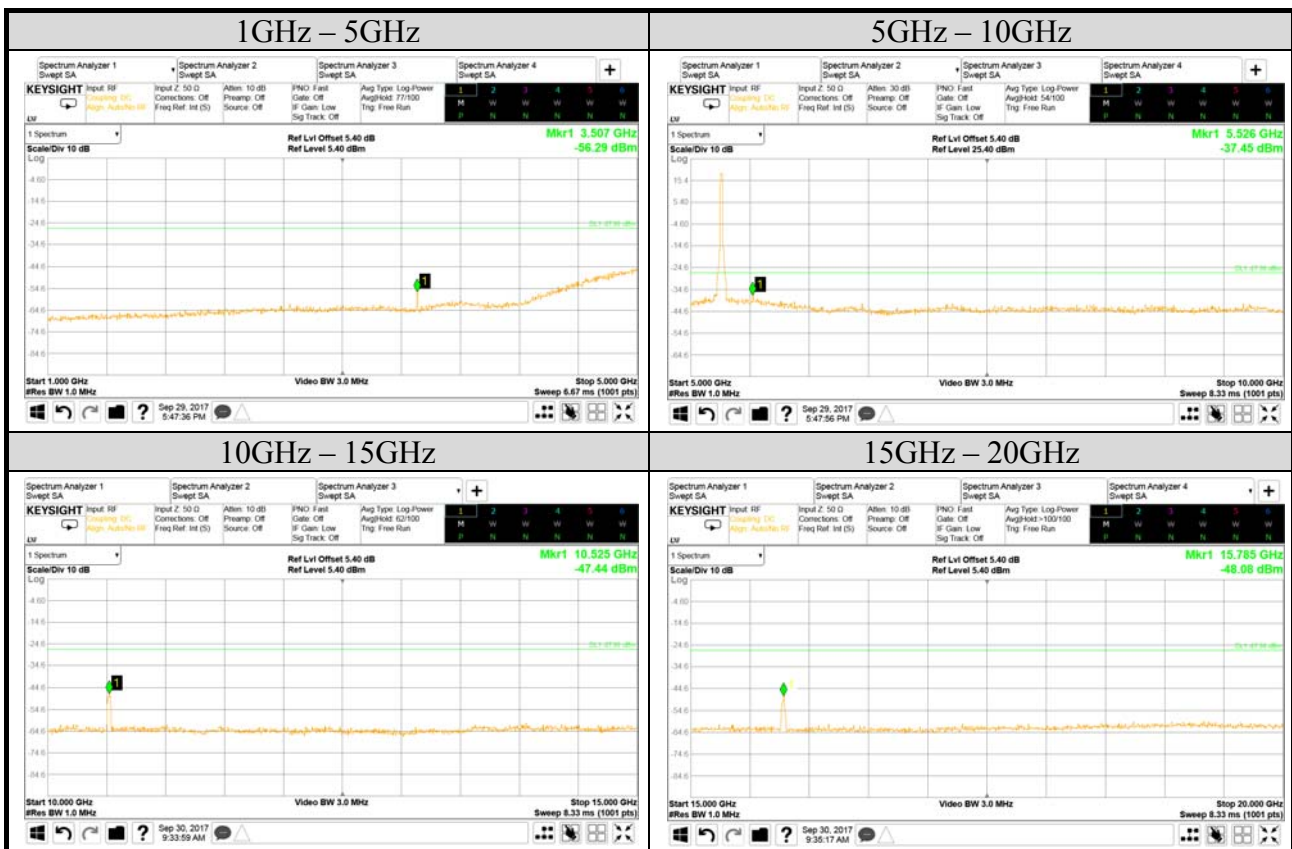


Test Date	2017/09/29	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
		Frequency	TX 5240MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



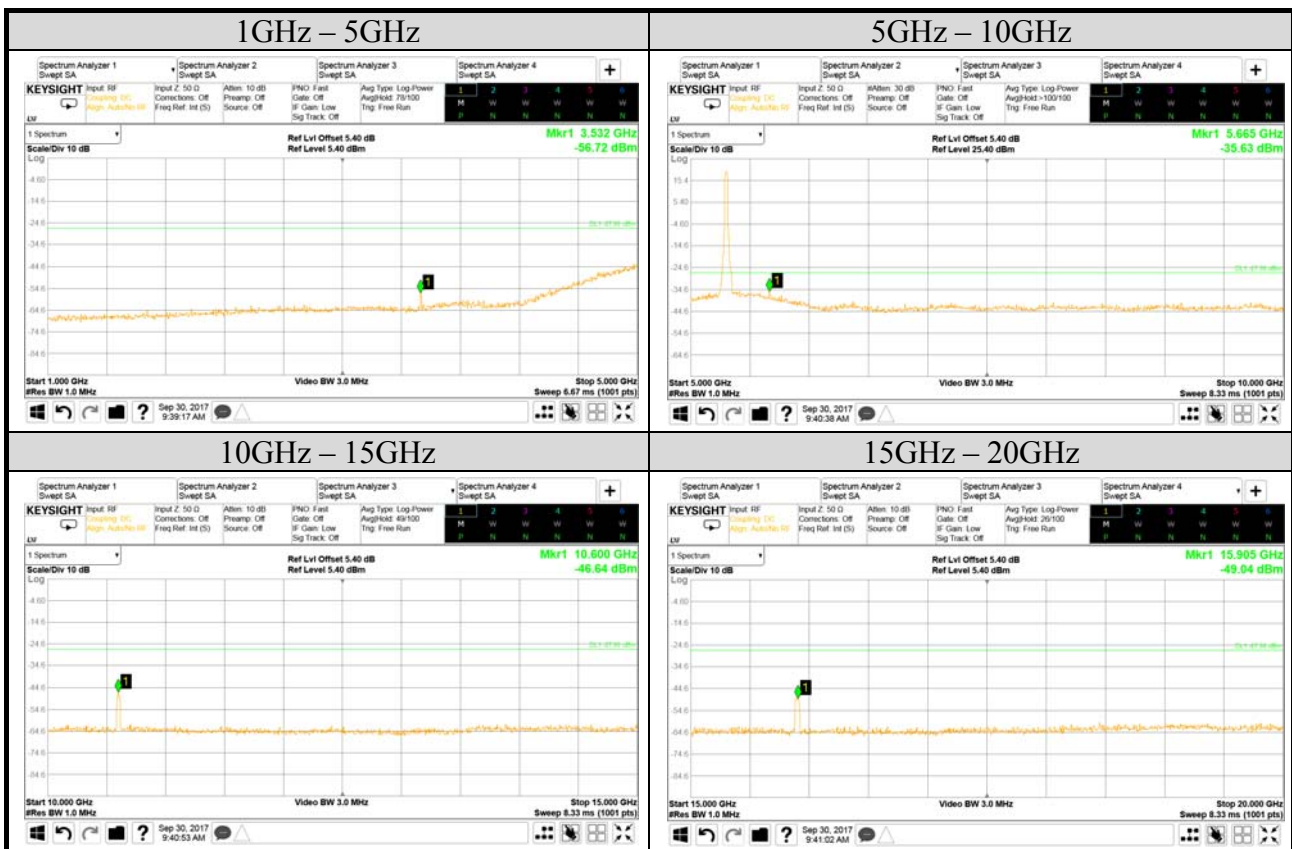


Test Date	2017/09/29	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5260MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



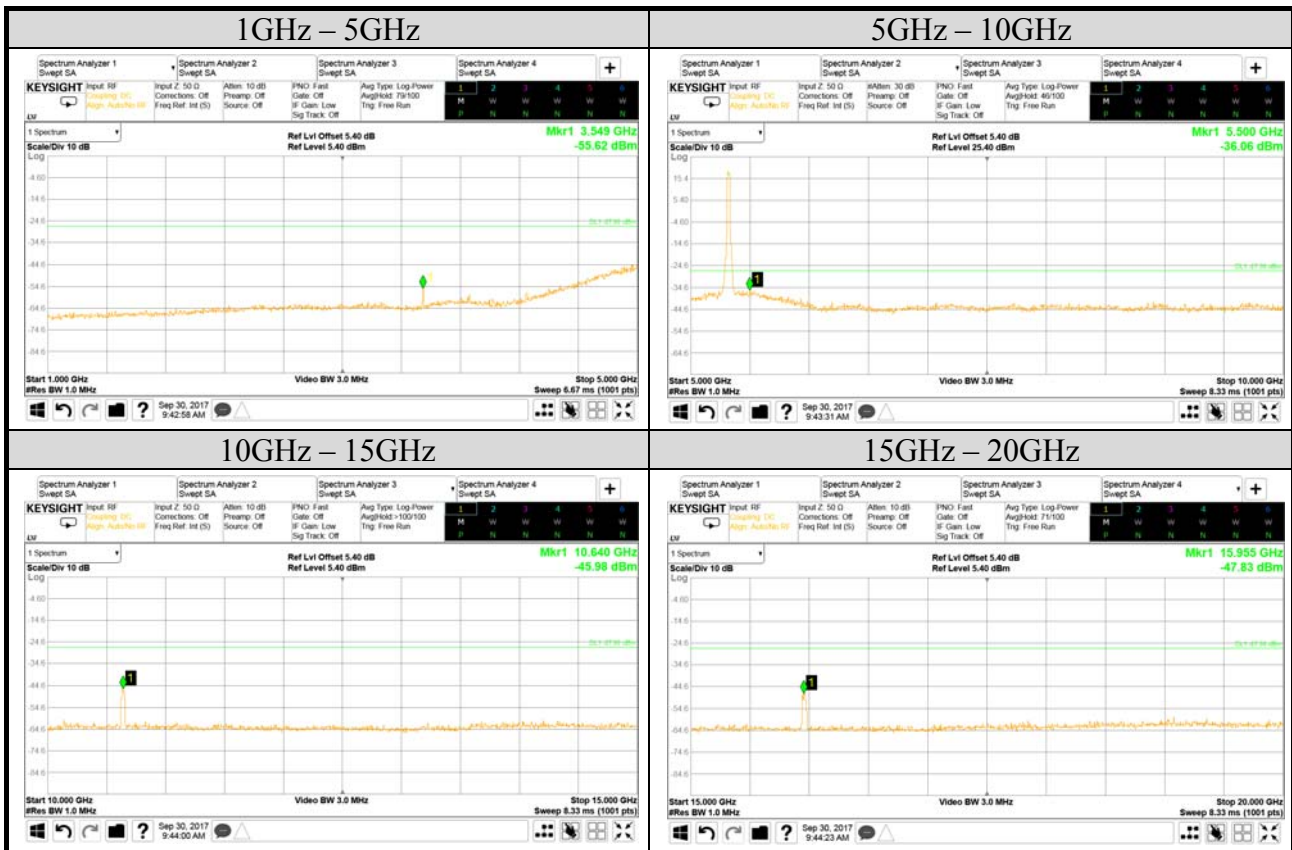


Test Date	2017/09/30	Temp./Hum.	24°C/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	





Test Date	2017/09/30	Temp./Hum.	24°C/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz
Cable Loss	1.4dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



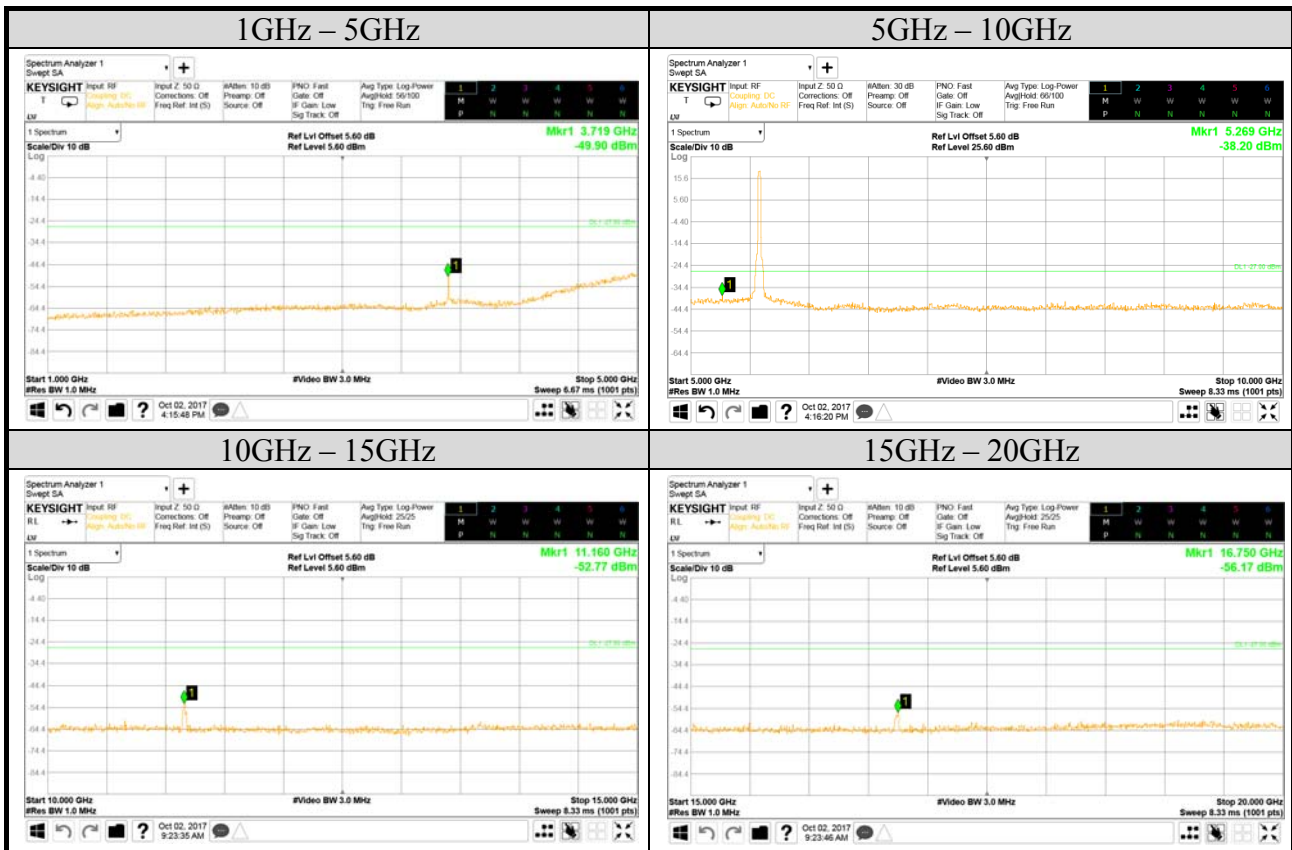


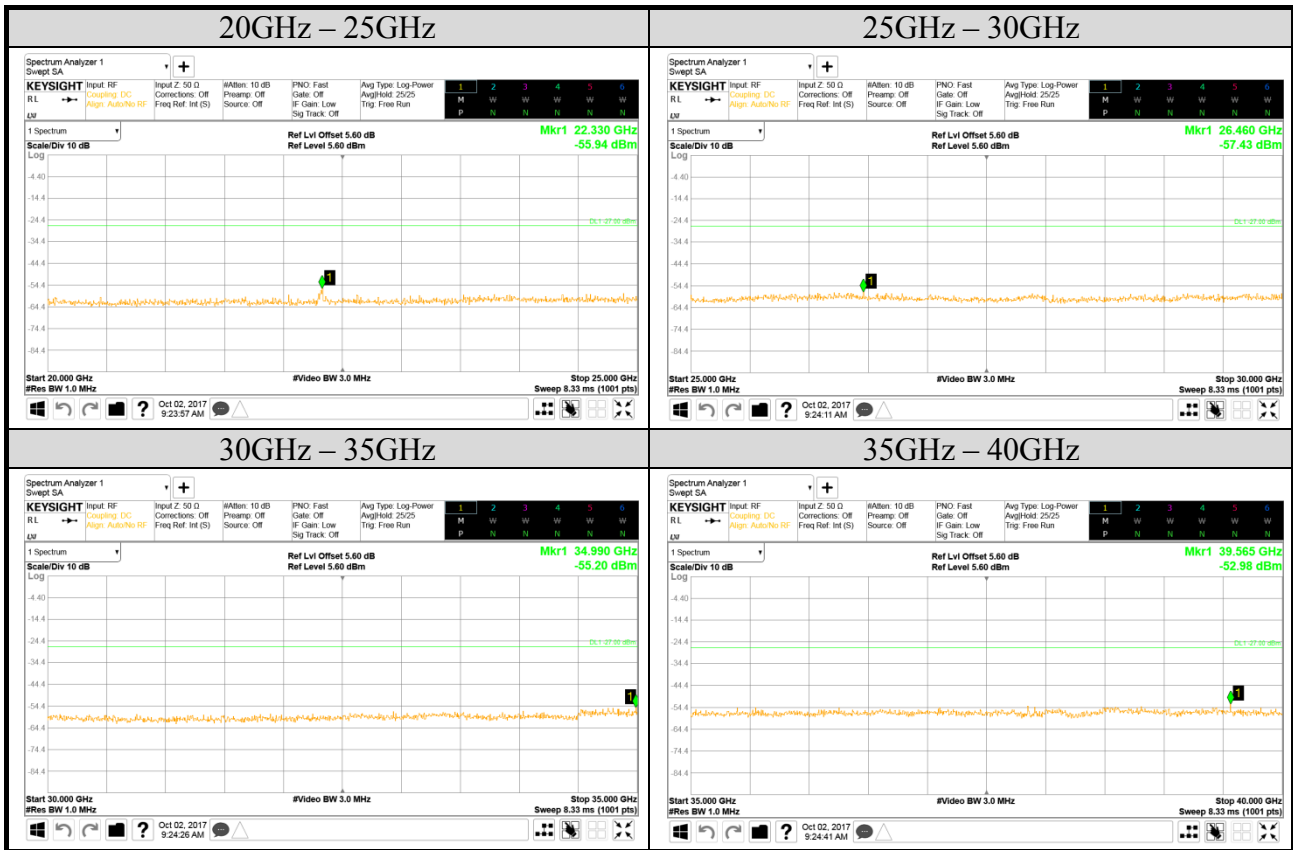
Test Date	2017/10/02	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



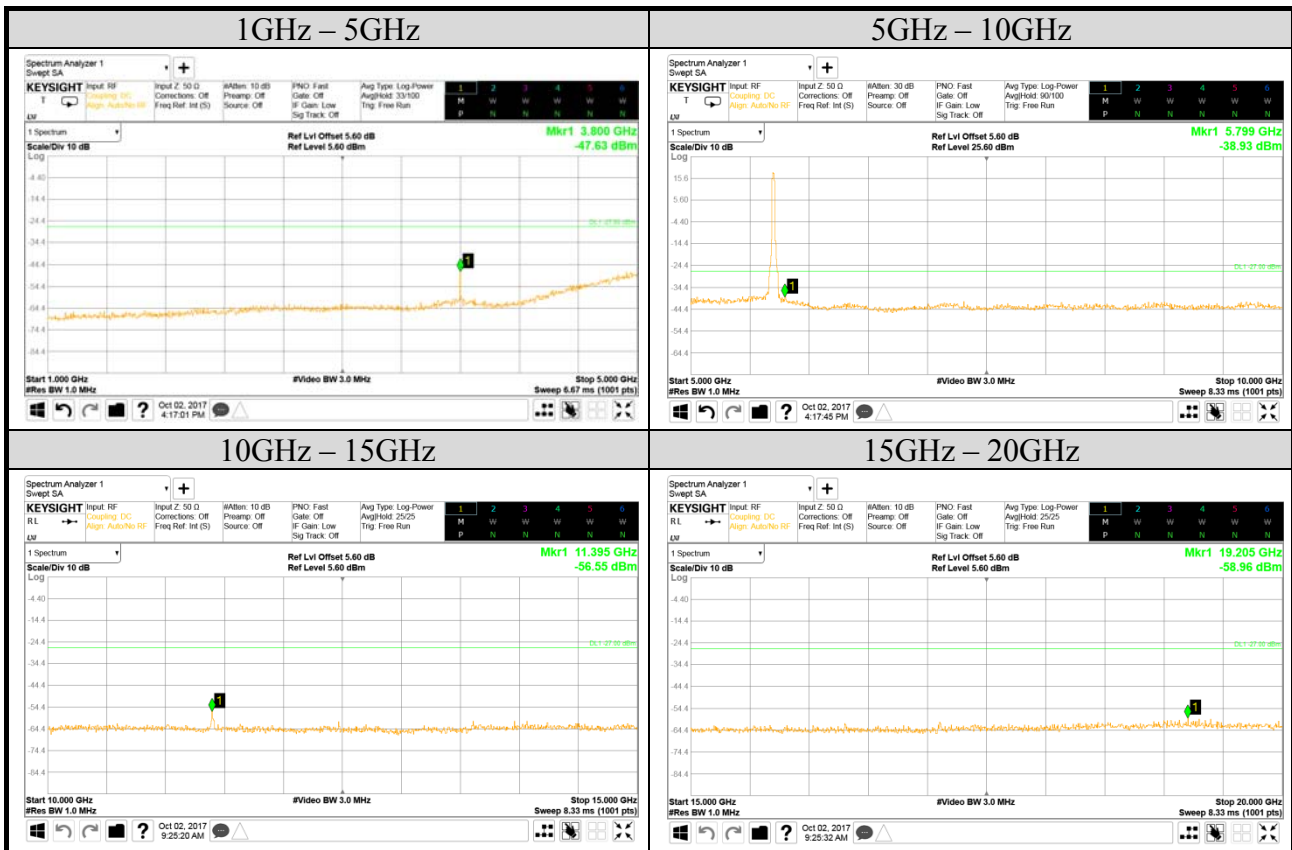


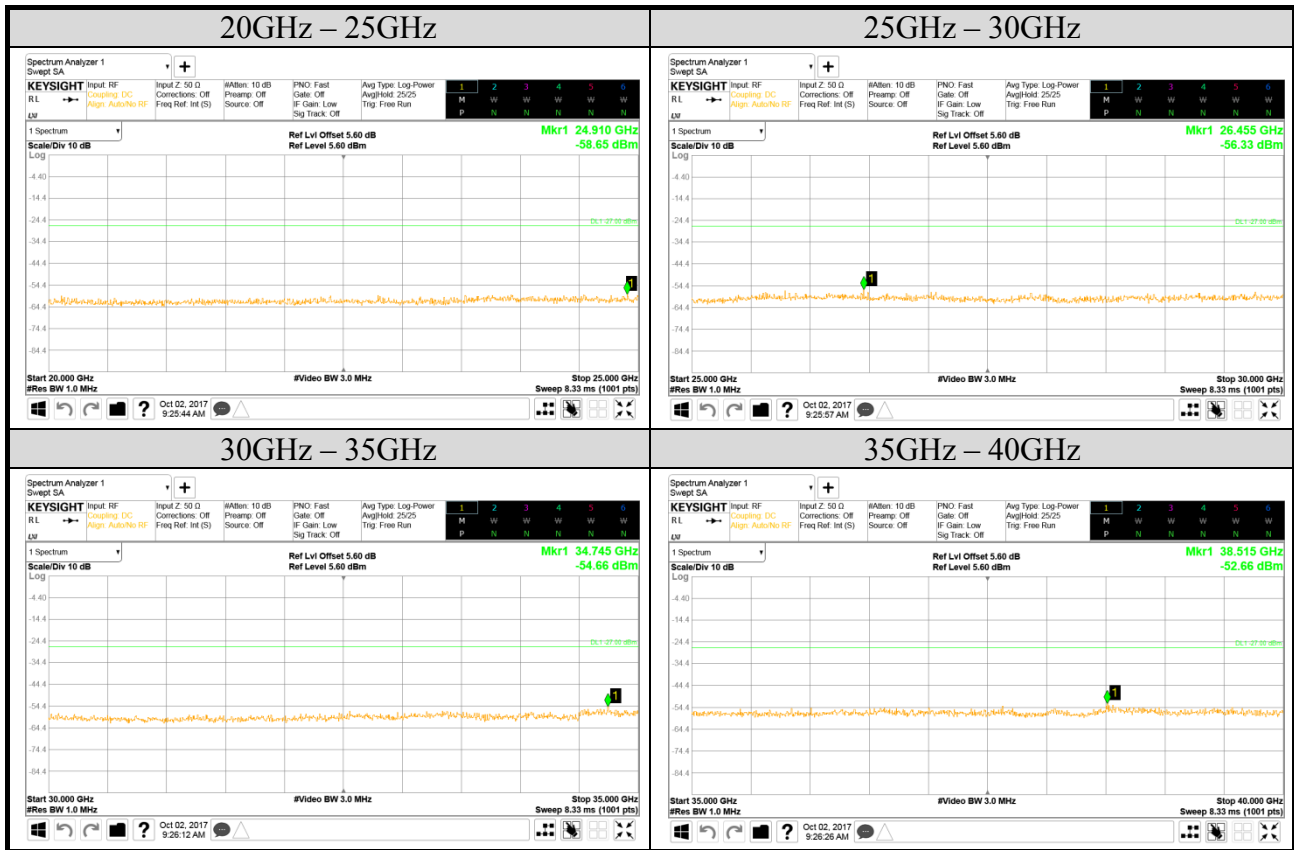
Test Date	2017/10/02	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5580MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



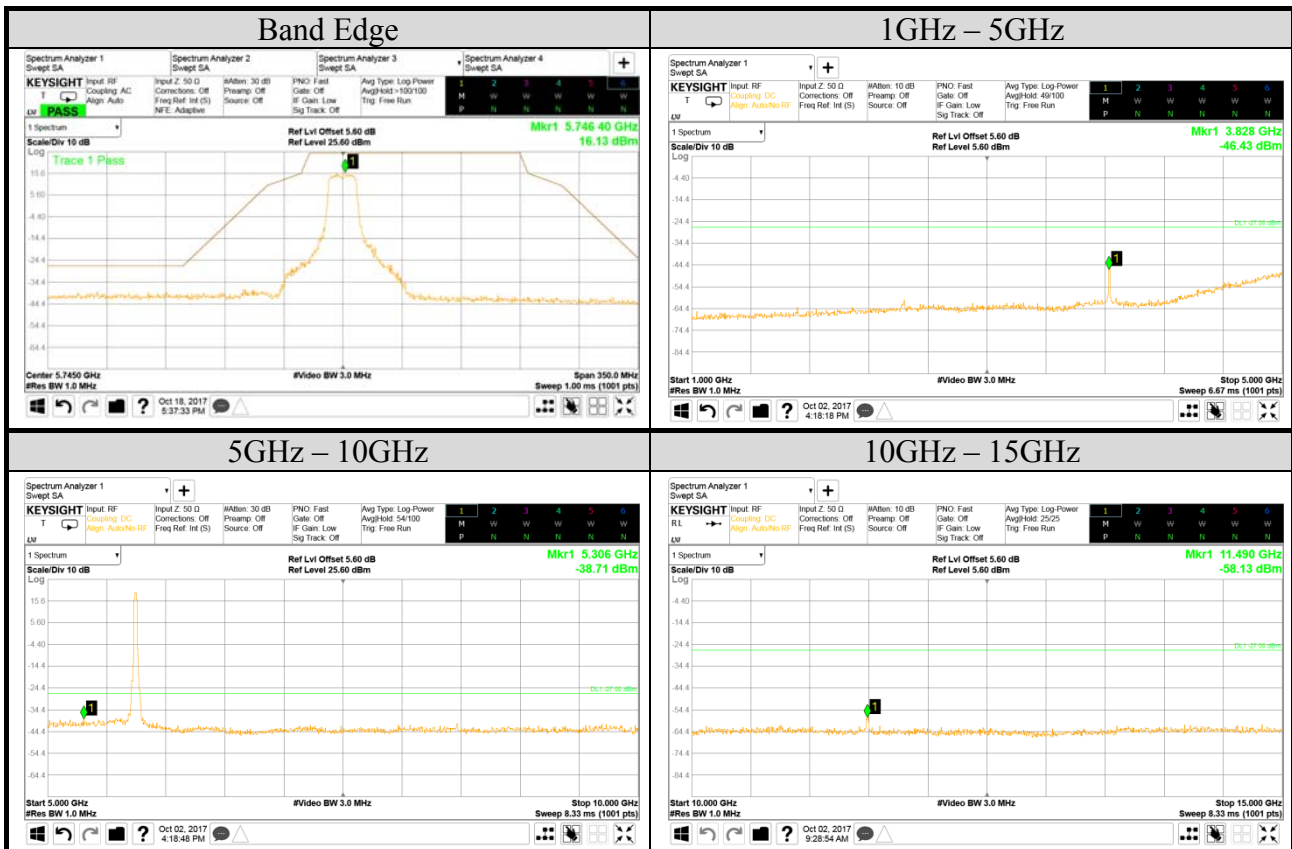


Test Date	2017/10/02	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	



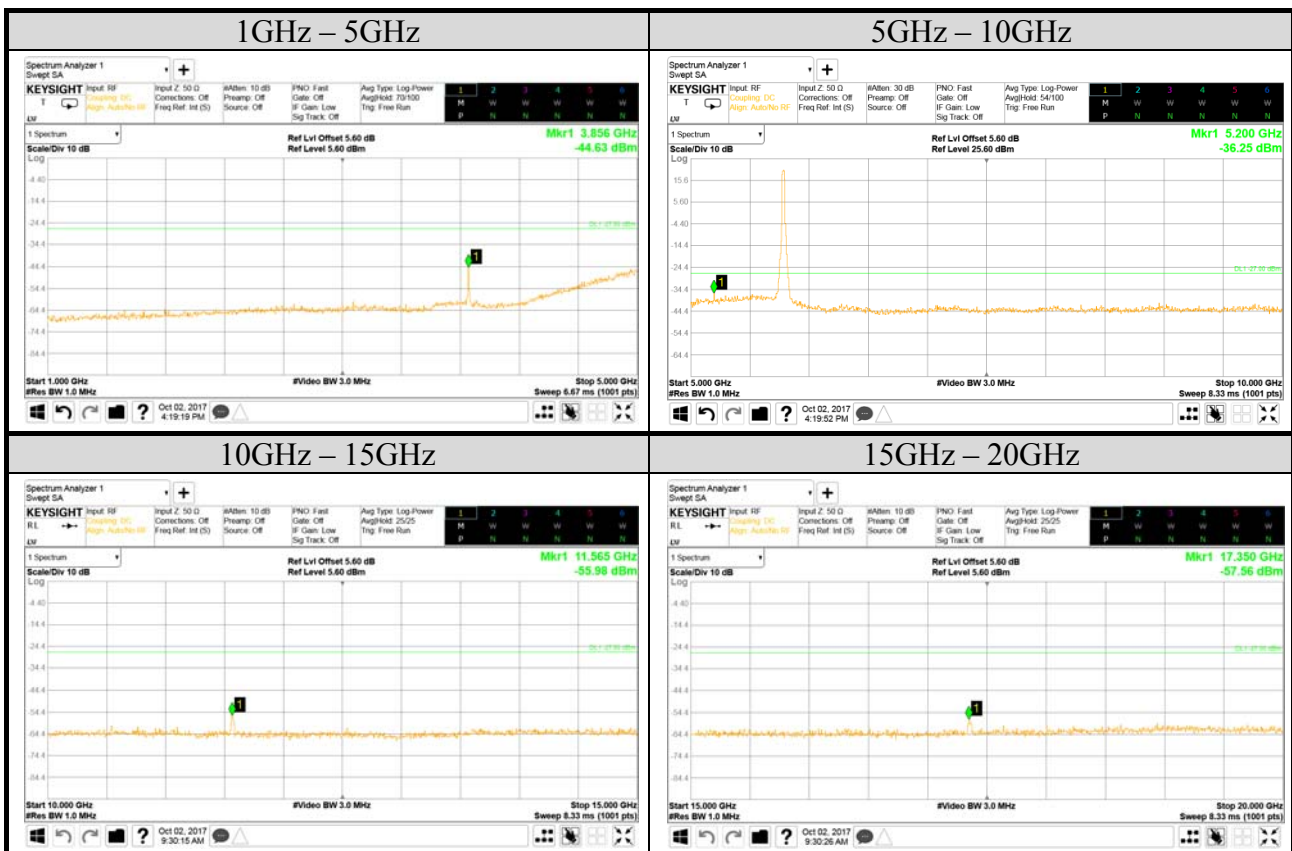


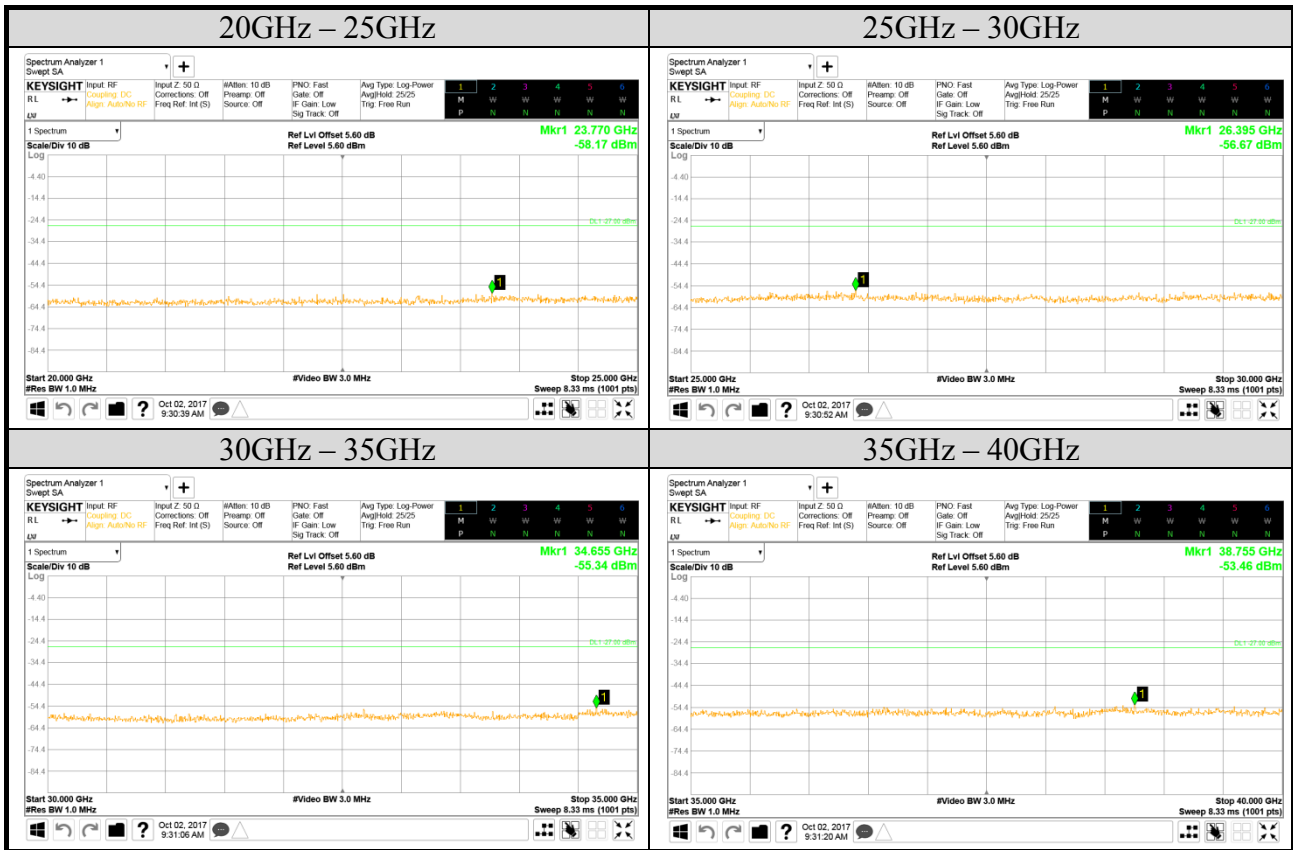
Test Date	2017/10/02~18	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	III
		Frequency	TX 5745MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	





Test Date	2017/10/02	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	





Test Date	2017/10/02~18	Temp./Hum.	24°C/53%
Mode	802.11a	UNII Band	III
		Frequency	TX 5825MHz
Cable Loss	1.6dB	Test Voltage	DC 3.3V (through jig via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	

