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

Tel: +886 2 26099301
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FCC 15.407 NII
5 GHz Test Report

for

LG Electronics Inc.

222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea

Product Name	**:**	**Notebook Computer**
Model Name	**:**	**17Z995**
Brand		**LG**
FCC ID	**:**	**BEJNT-17Z995**

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

Testing Laboratory
1724

TESTING
NVLAP LAB CODE 200077-0

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

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TEST REPORT

Applicant	:	LG Electronics Inc.
Manufacturer	:	LG Electronics Inc.
Factory #1	:	LG Electronics Nanjing New Technology Co., Ltd.
Factory #2	:	SEO HEUNG ELECTRONICS CO LTD
EUT Description		
(1) Product	:	Notebook Computer
(2) Model	:	17Z995
(3) Brand	:	LG
(4) Power Supply	:	DC 19V, 2.53A

Applicable Standards:

47 CFR FCC Part 15 Subpart E
ANSI C63.10:2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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: 2020. 01. 07

Reviewed by: (Tina Huang/Administrator)

Approved by: (Johnny Hsueh/Section Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2020. 01. 07	Original Report	EM-F190548

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2. SUMMARY OF TEST RESULTS

Rule	Description	Data Reused	Results
15.207	Conducted Emission	No	**PASS**
15.205/15.209	Radiated Band Edge and Radiated Spurious Emission	No	**PASS**
15.407(a)(5)/15.407(e)	26dB/6dB Bandwidth	Yes	**PASS**
15.407(a)	Maximum Output Power	SPOT CHECK Note 2	**PASS**
15.407(b)	Conducted Band Edges	No	**PASS**
15.407(a)	Power Spectral Density	Yes	**PASS**
15.407	Frequency Stability	Yes	**PASS**
15.203	Antenna Requirement	---	**Compliance**

Note: 1. The uncertainties value is not used in determining the result.
2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, grant on 11/29 2019. According to KDB 484596 D01, we did spot check for output power and all output power values keep identical thus we reuse all results.

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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Manufacturer	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Factory #1	LG Electronics Nanjing New Technology Co., Ltd. No.346,Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.
Factory #2	SEO HEUNG ELECTRONICS CO LTD 55 Asan valley Seo-ro, Dunpo-myeon, Asan-si, Chungcheongnam-do, 31409 Korea
Product	Notebook Computer The product has two colors (Dark Silver and White).
Model	17Z995
Brand	LG

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3.2. Description of EUT

<table>
<tr><td>Test Model</td><td>17Z995</td></tr>
<tr><td>Serial Number</td><td>N/A</td></tr>
<tr><td>Power Rating</td><td>DC 19V, 2.53A</td></tr>
<tr><td>Software Version</td><td>N/A</td></tr>
<tr><td>RF Features</td><td>WLAN:802.11 a/b/g/n/ac/ax
Bluetooth: BT and BLE (BT 5.0)</td></tr>
<tr><td>Transmit Type</td><td>
<table>
<tr><th colspan="2">2.4 GHz</th></tr>
<tr><td>802.11b</td><td>1T1R</td></tr>
<tr><td>802.11g</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20</td><td>2T2R</td></tr>
<tr><td>802.11n-HT40</td><td>2T2R</td></tr>
<tr><td>802.11ax-HE20</td><td>2T2R</td></tr>
<tr><td>802.11ax-HE40</td><td>2T2R</td></tr>
<tr><td>BT/BLE</td><td>1T1R</td></tr>
</table>
<table>
<tr><th colspan="2">UNII Bands</th></tr>
<tr><td>802.11a</td><td>1T1R</td></tr>
<tr><td>802.11n-HT20/802.11ac-VHT20/802.11ax-HE20</td><td>2T2R</td></tr>
<tr><td>802.11n-HT40/802.11ac-VHT40/802.11ax-HE40</td><td>2T2R</td></tr>
<tr><td>802.11ac-VHT80/802.11ax-HE80</td><td>2T2R</td></tr>
<tr><td>802.11ac-VHT160/802.11ax-HE160</td><td>2R2T</td></tr>
</table>
</td></tr>
<tr><td>Device Category</td><td>☐Outdoor Access Point
☐Fixed point-to-point Access Point
☐Indoor Access Point
■Mobile and Portable client device</td></tr>
<tr><td>Sample Status</td><td>Mass production</td></tr>
<tr><td>Date of Receipt</td><td>2019. 12. 16</td></tr>
<tr><td>Date of Test</td><td>2019. 12. 25 ~ 2020. 01. 07</td></tr>
<tr><td>Interface Ports of EUT</td><td>• One Micro SD Card Slot
• One Earphone Port
• Three USB 3.0 Ports
• One USB Type C Port
• One HDMI Port
• One DC Input Port</td></tr>
<tr><td>Accessories Supplied</td><td>• AC Adapter
• LAN Gender</td></tr>
</table>

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3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1.	WA-F-LBLB-04-064 (Main)	INPAQ	FPCB	2400	1.57
				2450	1.41
				2500	1.55
				5100	2.85
				5400	3.13
				5800	3.19
	WA-F-LBLB-04-064 (AUX)	INPAQ	FPCB	2400	1.81
				2450	1.07
				2500	1.79
				5100	3.09
				5400	3.02
				5800	2.66

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	5500-5720	12
	III	5745-5825	5
802.11n-HT20/ 802.11ac-VHT20 802.11ax-HE20	I	5180-5240	4
	II-2A	5260-5320	4
	II-2C	5500-5720	12
	III	5745-5825	5
802.11n-HT40/ 802.11ac-VHT40 802.11ax-HE40	I	5190-5230	2
	II-2A	5270-5310	2
	II-2C	5510-5710	6
	III	5755-5795	2
802.11ac-VHT80 802.11ax-HE80	I	5210	1
	II-2A	5290	1
	II-2C	5530-5690	3
	III	5775	1
802.11ac-VHT160 802.11ax-HE160	I	5250	1
	II-2A		
	II-2C	5570	1
Remark: UNII Band II-2A and II-2C (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)			

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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
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 173.3
802.11ac-VHT40		Up to 400
802.11ac-VHT80		Up to 866.7
802.11ac-VHT160		Up to 1733.3
802.11ax-HE20	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/1024QAM)	Up to 287
802.11ax-HE40		Up to 574
802.11ax-HE80		Up to 1201
802.11ax-HE160		Up to 2402

Channel List					
802.11a/802.11n-HT20/802.11ac-VHT20/802.11ax-HE20					
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		144	5720
	64	5320	III	149	5745
II-2C	100	5500		153	5765
	104	5520		157	5785
	108	5540		161	5805
	112	5560		165	5825
	116	5580			

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Channel List					
802.11n-HT40/802.11ac-VHT40/802.11ax-HE40					
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		142	5710
II-2C	102	5510	III	151	5755
	110	5550		159	5795

Channel List					
802.11ac-VHT80/802.11ax-HE80					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	42	5210	II-2C	138	5690
II-2A	58	5290	III	155	5775
II-2C	106	5530			
	122	5610			

Channel List					
802.11ac-VHT160/802.11ax-HE160					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	50	5250	II-2C	114	5570
II-2A					

Note Test modes are presented at section 3.7.

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3.5. Description of Key Components

3.5.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home	---
	Microsoft	Win10 Pro	---
Main Board	LG	17Z990/995 Main B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited
SUB Board	LG	17Z990 SUB B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
CPU (Socket:FCBGA1528)	Intel	i5-10210U	1.6GHz, up to 4.2GHz
		i7-10510U	1.8GHz, up to 4.9GHz
17" LCD Panel	LG Display	LP170WQ1(SP)(A1)	Resolution: 2560 x 1600, 60Hz WQXGA IPS (Normal Non touch)
Storage (SSD)	Samsung	MZ-VLB2560	256GB
		MZ-VLB5120	512GB
Memory (RAM)	SK hynix	-	8GB DDR4
	Samsung	-	8GB DDR4
	SK hynix	-	8GB DDR4 SODIMM (on Card)
Battery Pack	LG	LBS1224E	72Wh, DC7.7V, 9450mAh
WLAN Combo Card	Intel	AX201D2W	WLAN and BT, 2x2 CNVi 1216 FCC ID: PD9AX201NG IC: 1000M-AX201NG
WLAN Combo Antenna	LG (INPAQ)	WA-F-LBLB-04-064	FPCB Type Main: Black, Aux: Gray
Keyboard	LG	SN3870BL	17Z990 Black KBD
		SN3870BL1	17Z990 White KBD
Web Camera	Chicony	CKFIH2821005290LH	With two microphones
		CKFIH28-121005290LH	With One microphone
	Luxvisions	7BF109N2DC	With two microphones
		7BF109N2DD	With One microphone

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Item	Supplier	Model / Type	Character
LANGender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100 Megabit Ethernet (Black) 10/100 Megabit Ethernet
		80-5946-101	
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100Megabit Ethernet (Black) 10/100 Megabit Ethernet
		GD-08MF-36-BK-LP11	
	Type C to LAN: Shielded, Undetached, 0.12m		
	SUZHOU MEC ELECTRONICS	80-5946-200	(White) 10/100/1000 Megabit Ethernet (Black) 10/100/1000 Megabit Ethernet
		80-5946-210	
	Type C to LAN: Shielded, Undetached, 0.13m.		
AC Adapter (48W)	LG (HONOR)	ADS-48MS-19-2 19048E	I/P: AC 100-240V, 50-60Hz, 1.5A, O/P: DC 19V, 2.53A
	DC Power Cord: Non-Shielded, Undetached, 1.5m AC Power Cord: Non-Shielded, Detached, 1.55m (2C)		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

3.5.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU	
System	Microsoft, Win10 Home
Main Board	LG, 17Z990/995 Main B/D
SUB Board	LG, 17Z990 SUB B/D
CPU	Intel, i7-10510U
17" LCD Panel	LG Display, LP170WQ1(SP)(A1)
Storage (SSD)	Samsung, MZ-VLB5120, 512GB
Memory (RAM)	Samsung, 8GB
	SK Hynix, 8GB (On Card)
Battery Pack	LG, LBS1224E
WLAN Combo Card	Intel, AX201D2W
WLAN Combo Antenna	LG (INPAQ), WA-F-LBLB-04-064
Keyboard	LG, SN3870BL1
Web Camera	Chicony, CKFIH2821005290LH
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS, 80-5946-200
AC Adapter	LG (HONOR), ADS-48MS-19-2 19048E

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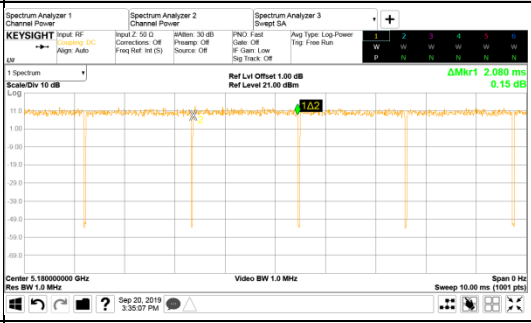
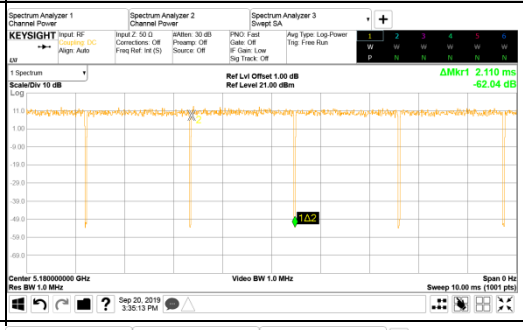
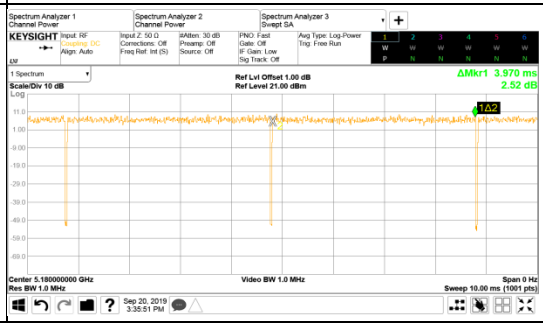
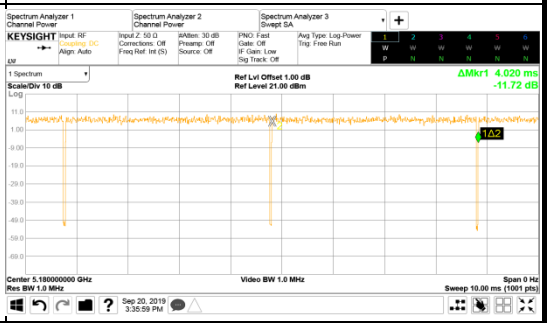
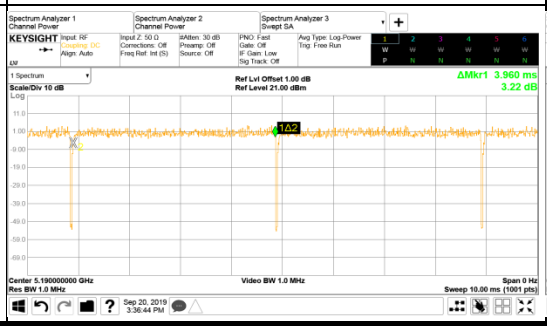
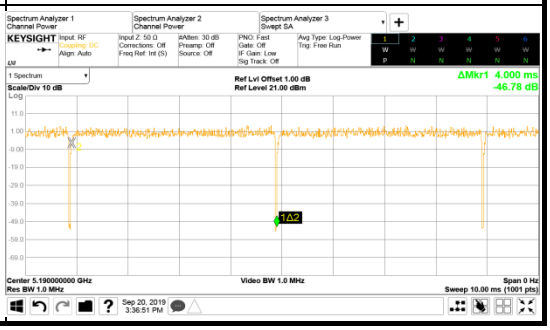
3.6. Test Configuration

Mode	TX_{on} (ms)	1/ TX_{on} (kHz)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11a	2.080	0.481	0.986	N/A
802.11n-HT20	3.970	0.252	0.988	N/A
802.11n-HT40	3.960	0.253	0.990	N/A
802.11ac-VHT80	3.960	0.253	0.990	N/A
802.11ac-VHT160	2.780	0.360	0.986	N/A
802.11ax-HE20	3.960	0.253	0.990	N/A
802.11ax-HE40	3.940	0.254	0.985	N/A
802.11ax-HE80	3.950	0.253	0.985	N/A
802.11ax-HE160	2.280	0.439	0.982	N/A

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

Mode	TX_{on} (ms)	$T_{on}+T_{off}$ (ms)
802.11a		
802.11n-HT20		
802.11n-HT40		

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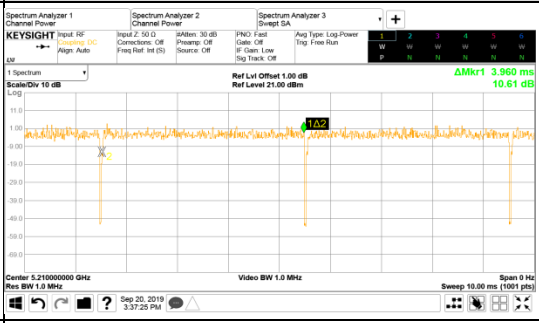
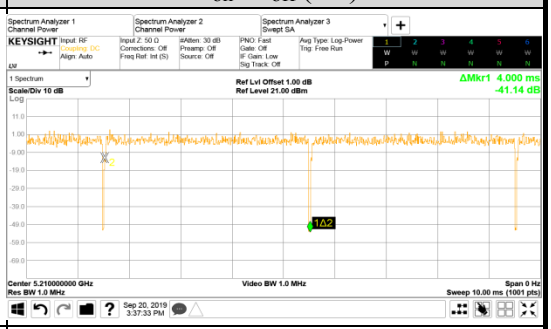
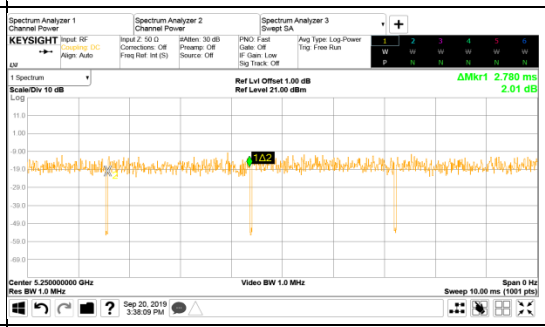
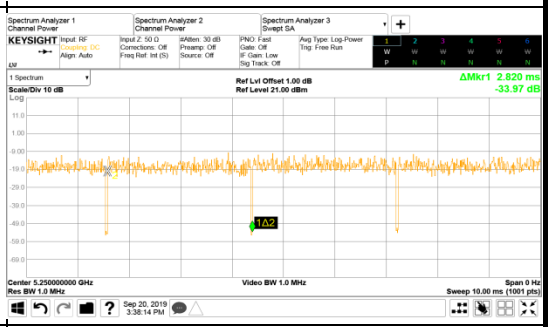
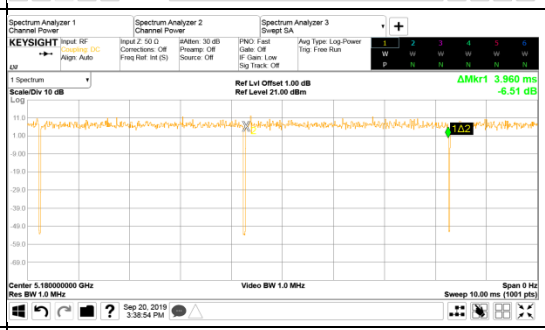
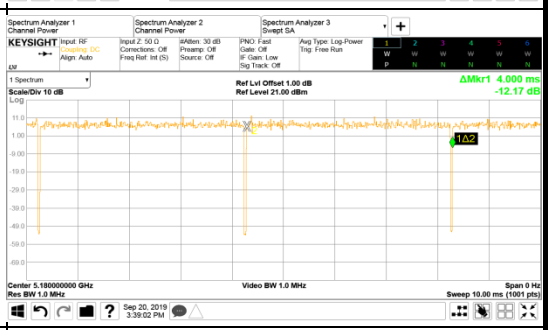
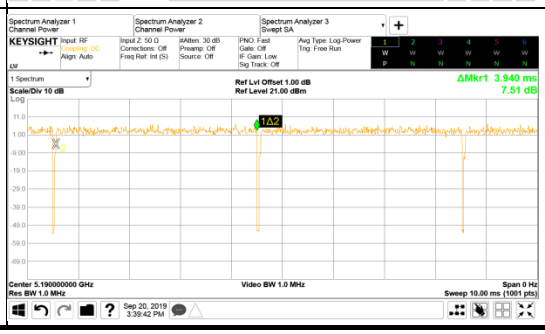
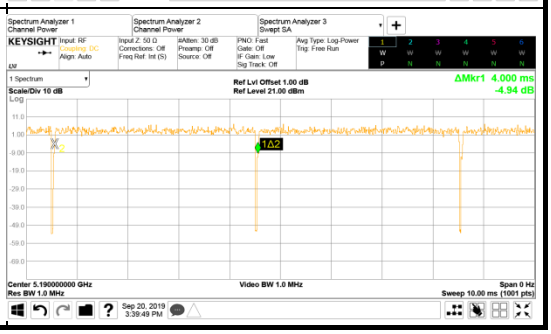
Mode	TX_{on} (ms)	$T_{on}+T_{off}$ (ms)
802.11ac-VHT80		
802.11ac-VHT160		
802.11ax-HE20		
802.11ax-HE40		

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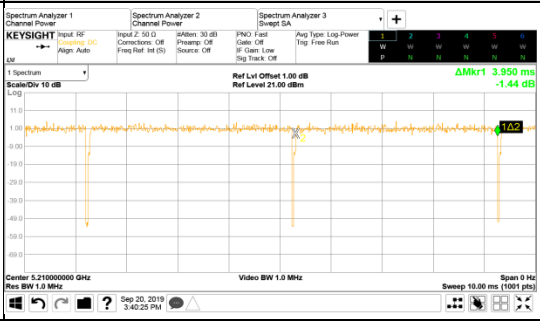
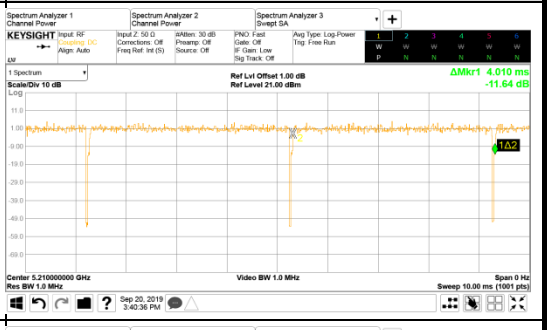
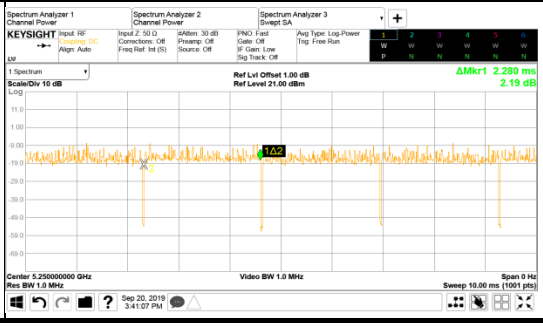
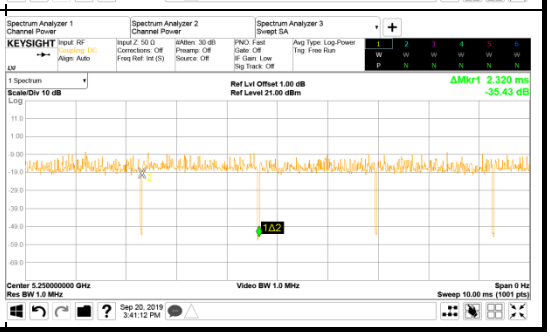
Mode	TX_{on} (ms)	$T_{on}+T_{off}$ (ms)
802.11ax-HE80		
802.11ax-HE160		

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AC Conduction
Normal operation

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11a	6 Mbps	36/64/100/140/144
		802.11n-HT20	MCS8	36/64/100/140/144
		802.11n-HT40	MCS8	38/62/102/134/142
		802.11ac-VHT80	MCS0	42/58/106/122/138
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	MCS0	36/64/100/140/144
		802.11ax-HE40	MCS0	38/62/102/134/142
		802.11ax-HE80	MCS0	42/58/106/122/138
		802.11ax-HE160	MCS0	50/114
	Radiated Spurious Emission Note1 & 2	802.11a	6 Mbps	48/52/116/144/149
		802.11n-HT20	MCS8	48/52/116/144/157
		802.11n-HT40	MCS8	46/54/134/142/159
		802.11ac-VHT80	MCS0	42/58/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	48/52/116/144/165
		802.11ax-HE40	HE0	46/54/134/142/159
		802.11ax-HE80	HE0	42/58/122/138/155
		802.11ax-HE160	HE0	50/114

Item		Mode	Data Rate	RU Configuration	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11ax-HE20	HE0	26/0	36/100
				52/37	
				106/53	
			HE0	26/8	64/140
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102
			HE0	242/62	62/134
		802.11ax-HE80	HE0	484/65	42/106
			HE0	484/66	58/122
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114

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Item		Mode	Data Rate	Test Channel
Conducted Test Case	26dB/6dB Bandwidth	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114
	Maximum output power	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114

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Item		Mode	Data Rate	Test Channel
Conducted Test Case	Conducted Band Edges	802.11a	6 Mbps	149/165
		802.11n-HT20	MCS8	149/165
		802.11n-HT40	MCS8	151/159
		802.11ac-VHT80	MCS0	155
		802.11ax-HE20	HE0	149/165
		802.11ax-HE40	HE0	151/159
		802.11ax-HE80	HE0	155
	Power spectral density	802.11a	6 Mbps	36/40/48/52/60/64/100/ 116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/ 116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/ 134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/ 116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/ 134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114

Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	26dB/6dB Bandwidth	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
			HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114

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Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	Maximum output power	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
			HE0	26/8	64/140/165
				52/40	
				106/5	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114
	Conducted Band Edges	802.11ax-HE20	HE0	26/0	149
				52/37	
				106/53	
			HE0	26/8	165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	151
			HE0	242/62	159
		802.11ax-HE80	HE0	484/65	155
				484/66	
	Power spectral density	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
			HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114

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

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

Note 3: The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified those rate as the worst case for output power.

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3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

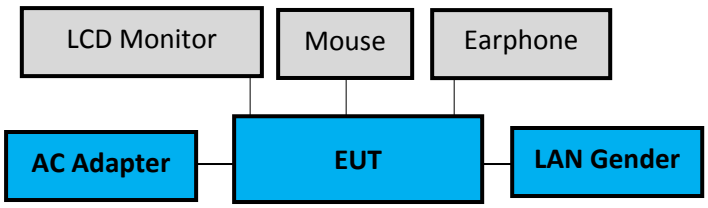
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	ASUS	MOBTUO	N/A	FCC By DoC
3.	Earphone	APPLE	N/A	N/A	N/A

3.7.2. Cable Lists

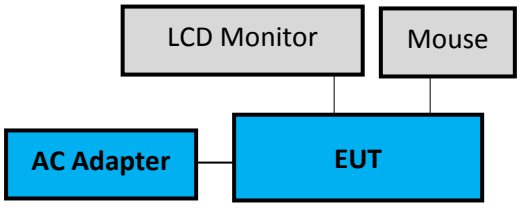
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.8m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8m
3.	Earphone Cable: Unshielded, Undetachable, 0.9m

3.8. Setup Configuration

3.8.1. EUT Configuration for Power Line & Radiated Emission



3.8.2. EUT Configuration for RF Conducted Test Items



3.9. Operating Condition of EUT

Test program "DRTU" is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.
[Chain 0 is aux port (A Button in DRTU) Chain 1 is main port (B Button in DRTU)].

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3.10.Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

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3.11.Measurement Uncertainty

Test Items/Facilities		Frequency Range	Uncertainty
Conduction Test		9kHz-150kHz	±3.7dB
		150kHz-30MHz	±3.5dB
Radiation Test	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
		1GHz-6GHz, 3m	±4.2dB
		6GHz-18GHz, 3m	±4.6dB
	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.4dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
		200MHz-1000MHz, 3m, Horizontal	±4.0dB
		30MHz-200MHz, 3m, Vertical	±4.3dB
		200MHz-1000MHz, 3m, Vertical	±4.4dB
		1GHz-6GHz, 3m	±4.5dB
		6GHz-18GHz, 3m	±4.6dB
	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.3dB
		1GHz-6GHz, 3m	±4.3dB
		6GHz-18GHz, 3m	±4.7dB
	Fully Anechoic Chamber	30MHz~1000MHz	±4.7dB
		1GHz~18GHz	±5.3dB

Remark：Uncertainty = $ku_c(y)$

Test Items	Uncertainty
Emission Bandwidth	± 0.2kHz
Maximum output power	± 0.33dB
Power spectral density	± 0.13dB

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4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2019. 01. 23	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2019. 11. 13	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2019. 12. 10	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2019. 01. 12	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2019. 04. 20	1 Year
6.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

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4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2019. 01.17	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2019. 06. 12	1 Year
3.	Amplifier	HP	8447D	2944A06305	2019. 01. 30	1 Year
4.	Amplifier	HP	8449B	3008A00529	2019. 01. 23	1 Year
5.	Amplifier	Keysight	83051A	MY53010042	2019. 08. 08	1 Year
6.	Bilog Antenna	TESEQ	CBL6112D	33821	2019. 01. 19	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2019.12. 26	2 Years
8.	Horn Antenna	EMCO	3115	9609-4927	2019. 06. 24	1 Year
9.	Horn Antenna	COM-POWER	AH-840	101092	2019 .05. 14	1 Year
10.	5G Notch Filter	Microware Circuits	N0452502	459775	2019. 05. 07	1 Year
11.	5G Notch Filter	Microware Circuits	N0555983	459481	2019. 05. 07	1 Year
12.	5G Notch Filter	Microware Circuits	N0257881	459776	2019. 08. 21	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2019. 02. 01	1 Year
14.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	54602/6	2019. 02. 01	1 Year
15.	Coaxial Cable	HUBER+ SUHNER	SUCOFLEX 102	No.1 18-40GHz Cable	2019.09.20	1 Year
16.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2019. 04. 20	1 Year
17.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2019. 01. 17	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2019. 11. 06	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2019. 11. 06	1 Year
4.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2019. 04. 20	1 Year

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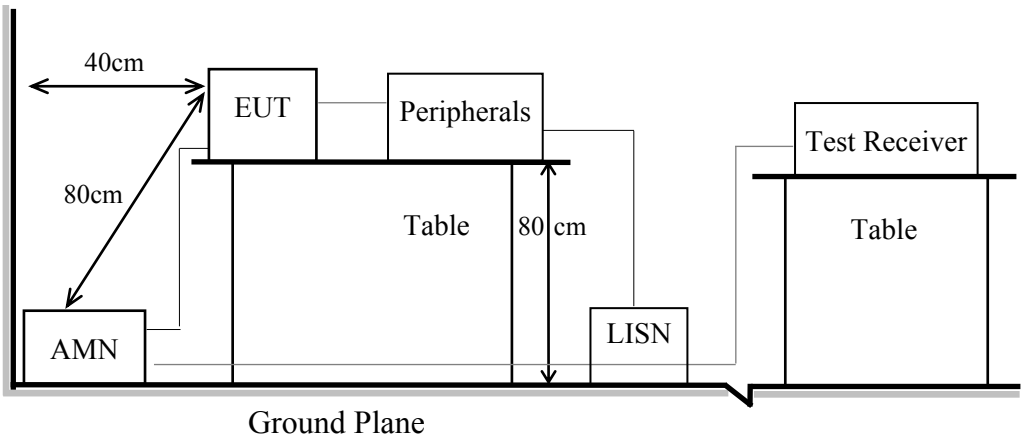
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.8

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

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

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.
2.: The lower limit applies to the band edges.

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.

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5.4. Test Results

Please refer to Appendix A.

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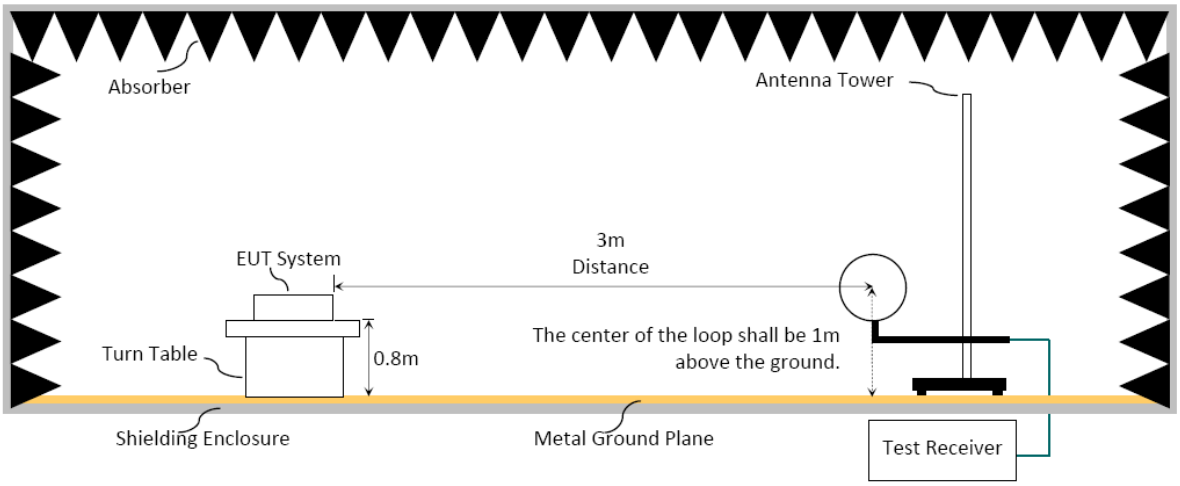
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

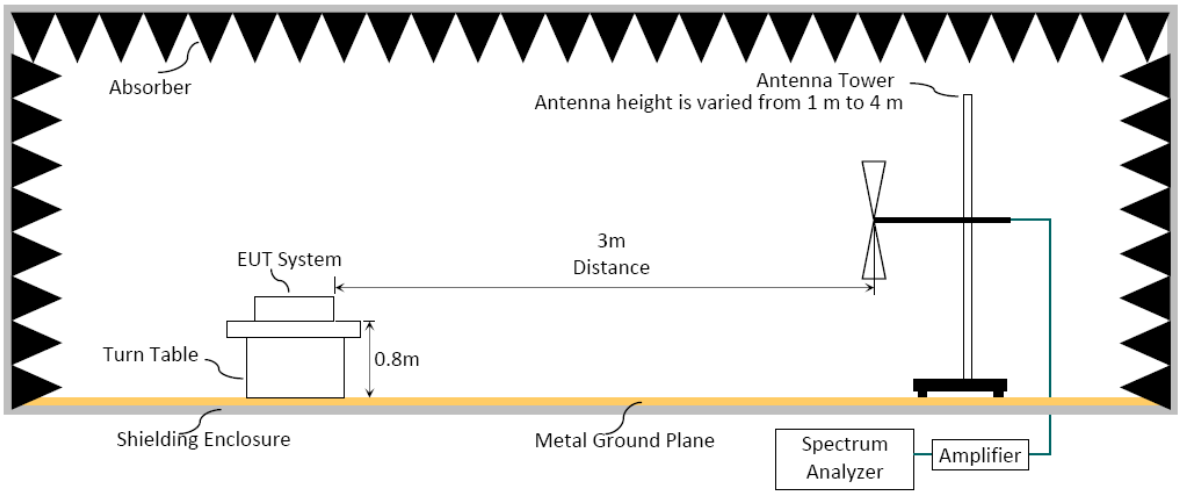
6.1.1. Block Diagram of EUT

Indicated as section 3.9

6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



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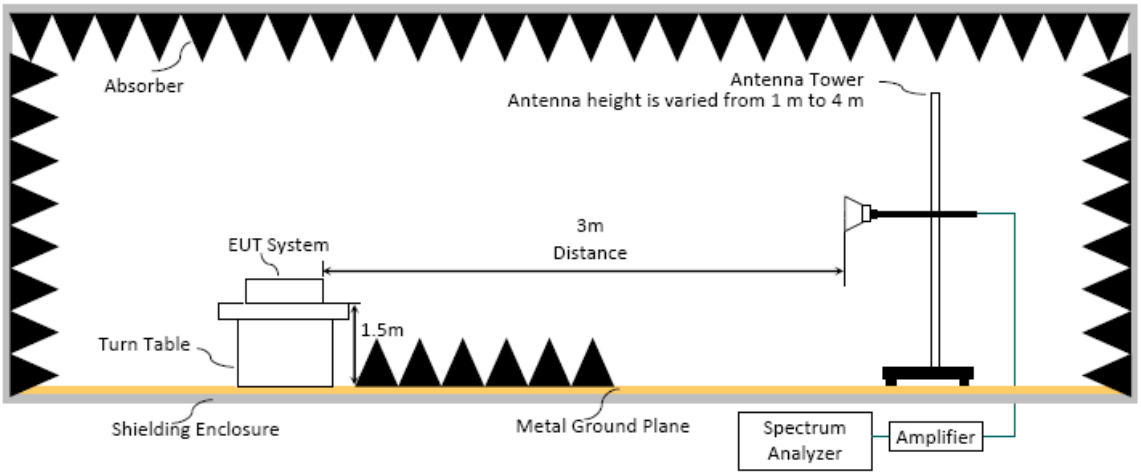
6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

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

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

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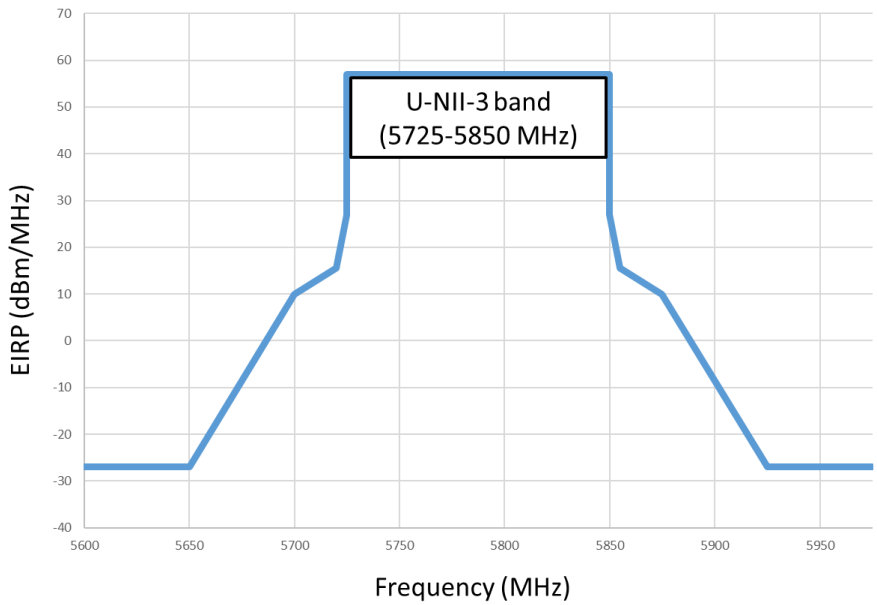
6.2.2. Limit for non-restricted frequency above 1 GHz

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	☒	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, and from 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, and from 5 MHz above or below the band edge increasing linearly to a level of 68.2 dBμV/m at the band edge.
	☐	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))



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6.3. Test Procedure

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

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

Frequency Range 30MHz ~ 40GHz:
The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:
Spectrum Analyzer is used for pre-testing with following setting:
(1)RBW = 120KHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.
Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic (up to 40 GHz):
Peak Detector:
(1)RBW = 1MHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

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Average Detector:

■Option 1:

(1)RBW = 1MHz
(2)VBW ≥ 1/ T.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting (kHz)
802.11a	2.080	0.481	10Hz
802.11n-HT20	3.970	0.252	10Hz
802.11n-HT40	3.960	0.253	10Hz
802.11ac-VHT80	3.960	0.253	10Hz
802.11ac-VHT160	2.780	0.360	10Hz
802.11ax-HE20	3.960	0.253	10Hz
802.11ax-HE40	3.940	0.254	10Hz
802.11ax-HE80	3.950	0.253	10Hz
802.11ax-HE160	2.280	0.439	10Hz

N/A: 1/ T is not implemented when duty cycle presented in section 3.6 is ≥98 %.
(1)Detector = Peak.
(2)Sweep time = auto.
(3)Trace mode = max hold.
(4)Allow sweeps to continue until the trace stabilizes.

□Option 2:

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

6.4. Measurement Result Explanation

■Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)
■Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)
□Average Emission Level= Peak Emission Level+ DCCF
Duty Cycle Correction Factor (DCCF)= 20log (TX_{on}/TX_{on+off}) presented in section 3.6.
□ERP= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

Please refer to Appendix A.

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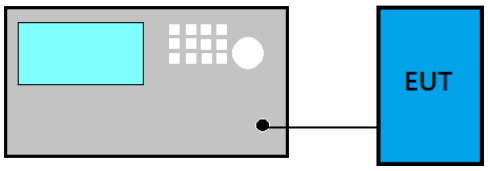
7. 26dB/6dB BANDWIDTH

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 v02r01:

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

7.4. Test Results

Please refer to Appendix A

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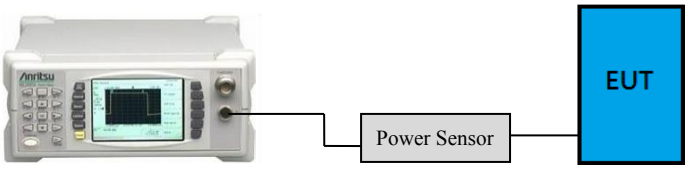
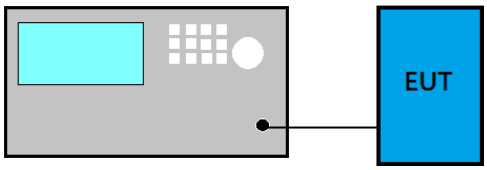
8. MAXIMUM OUTPUT POWER

8.1. Block Diagram of Test Setup



- **For 802.11ac-VHT80/160, 802.11ax-HE80/160 modes only**



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.

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8.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■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) for 802.11ac-VHT80/160, 802.11ax-HE80/160 modes only

(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

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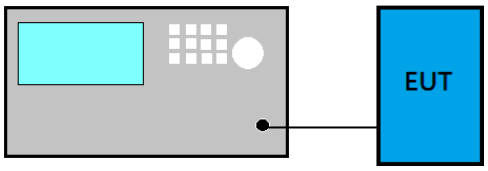
9. BAND EDGES MEASUREMENT

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	

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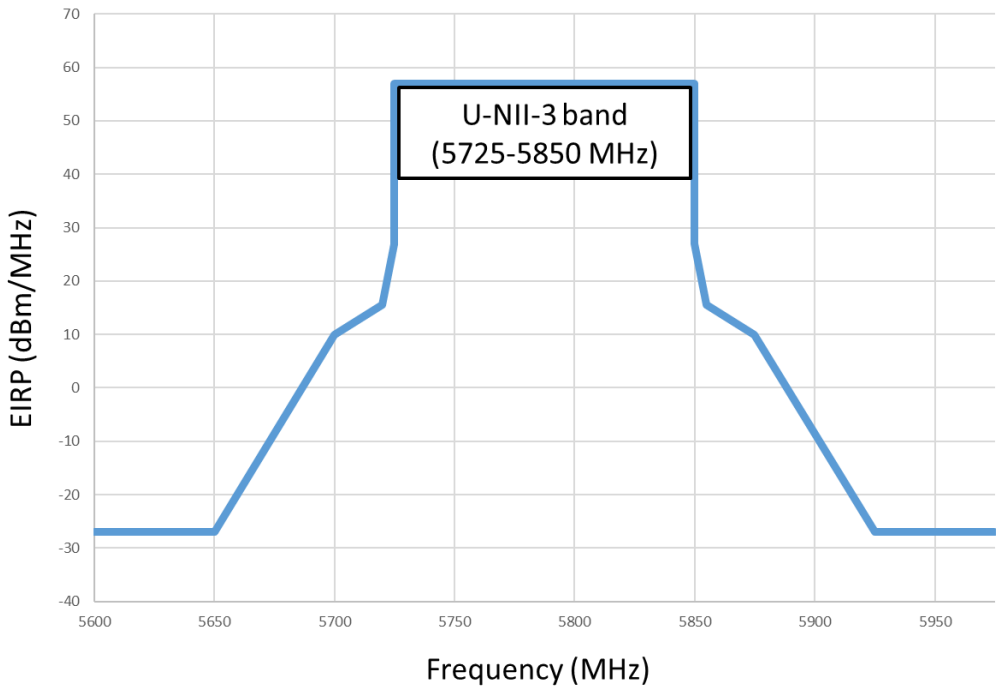
Frequency Band (MHz)	E.I.R.P. Limit	
5725 to 5850	☒	15.407(b)(4)(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing 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.
	☐	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))



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9.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

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

9.4. Test Results

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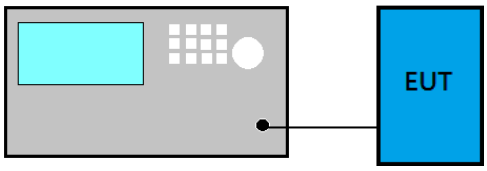
10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	17dBm/MHz
	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 v02r01:

■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) 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

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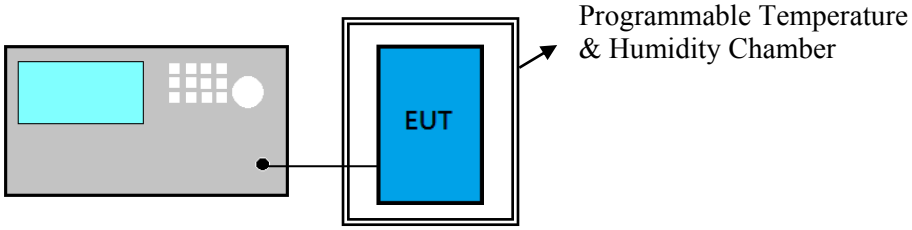
11. FREQUENCY STABILITY

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

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12. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPDNDIX A

TEST DATA AND PLOTS

(Model: 17Z995)

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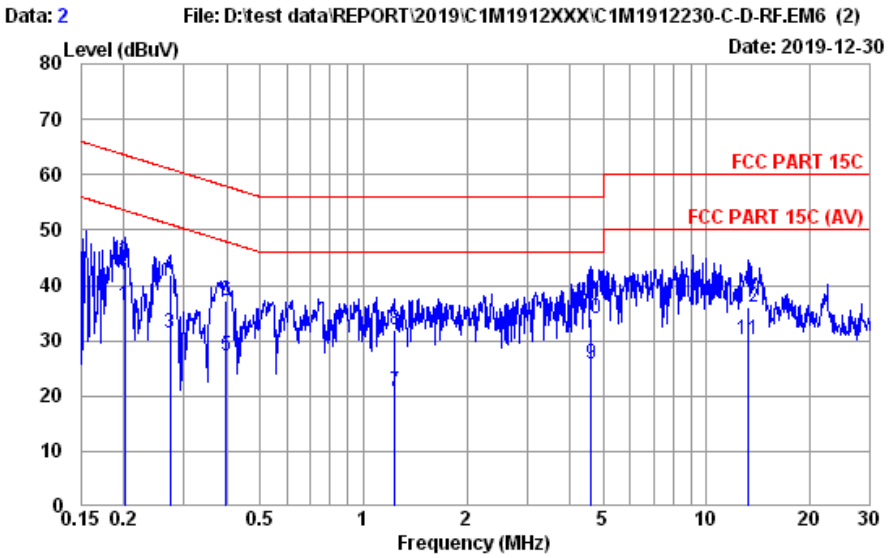
A.1 CONDUCTED EMISSION

Test Date	2019/12/30	Temp./Hum.	25℃/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu



Site no. : No.8 Shielded Room
Condition : ENV4200 (169)(A)
Limit : FCC PART 15C
Env. / Ins. : 25°C / 58% ESR3 (1774)
EUT : 17Z995
Power Rating : 120Vac/60Hz
Test Mode : Operating

Data no. : 2
LISN Phase : NEUTRAL
Engineer : Chucky Chiu

	Freq. (MHz)	ISN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.202	10.65	0.04	9.86	15.90	36.45	53.54	17.09	Average
2	0.202	10.65	0.04	9.86	23.83	44.38	63.54	19.16	QP
3	0.273	10.59	0.04	9.86	10.93	31.42	51.03	19.61	Average
4	0.273	10.59	0.04	9.86	21.50	41.99	61.03	19.04	QP
5	0.398	10.52	0.04	9.86	6.94	27.36	47.90	20.54	Average
6	0.398	10.52	0.04	9.86	16.84	37.26	57.90	20.64	QP
7	1.236	10.51	0.06	9.86	0.32	20.75	46.00	25.25	Average
8	1.236	10.51	0.06	9.86	11.65	32.08	56.00	23.92	QP
9	4.598	10.79	0.10	9.87	5.14	25.90	46.00	20.10	Average
10	4.598	10.79	0.10	9.87	13.34	34.10	56.00	21.90	QP
11	13.197	12.31	0.15	9.91	7.90	30.27	50.00	19.73	Average
12	13.197	12.31	0.15	9.91	13.77	36.14	60.00	23.86	QP

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

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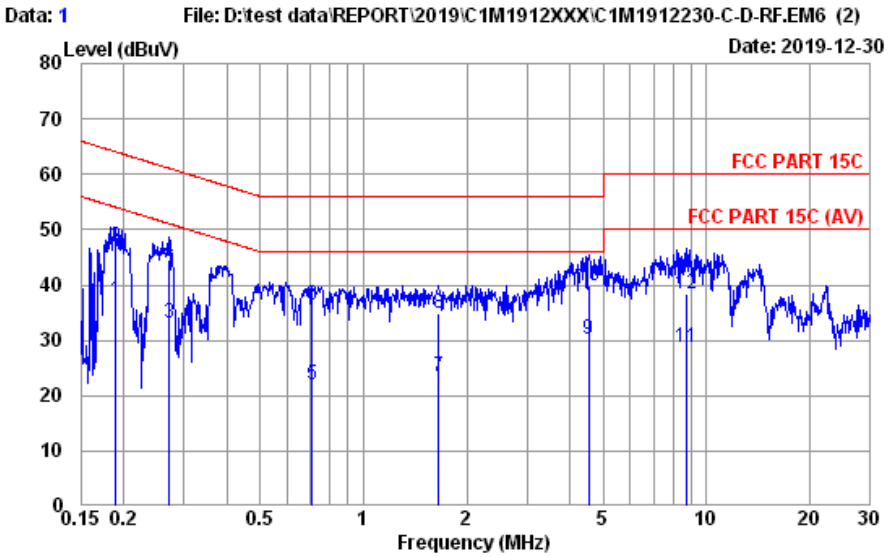
Test Date	2019/12/30	Temp./Hum.	25℃/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu



Site no. : No.8 Shielded Room Data no. : 1
Condition : ENV4200 (169)(A) LISN Phase : LINE
Limit : FCC PART 15C
Env. / Ins. : 25°C / 58% ESR3 (1774) Engineer : Chucky Chiu
EUT : 17Z995
Power Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	ISN. Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.189	10.62	0.04	9.86	16.62	37.14	54.06	16.92	Average
2	0.189	10.62	0.04	9.86	26.44	46.96	64.06	17.10	QP
3	0.272	10.56	0.04	9.86	12.73	33.19	51.07	17.88	Average
4	0.272	10.56	0.04	9.86	24.16	44.62	61.07	16.45	QP
5	0.708	10.48	0.05	9.86	1.51	21.90	46.00	24.10	Average
6	0.708	10.48	0.05	9.86	15.81	36.20	56.00	19.80	QP
7	1.654	10.50	0.06	9.86	3.11	23.53	46.00	22.47	Average
8	1.654	10.50	0.06	9.86	14.55	34.97	56.00	21.03	QP
9	4.525	10.69	0.10	9.87	9.48	30.14	46.00	15.86	Average
10	4.525	10.69	0.10	9.87	19.23	39.89	56.00	16.11	QP
11	8.776	11.13	0.13	9.89	7.50	28.65	50.00	21.35	Average
12	8.776	11.13	0.13	9.89	17.31	38.46	60.00	21.54	QP

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

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A.2 RADIATED EMISSION

Test Date	2019/12/26	Temp./Hum.	23℃/55%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Sean Wang
		Test Model	17Z995

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

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

A.2.1.2 Frequency Below 1 GHz

Mode	802.11ax-HE40	UNII Band	III
		Frequency	5795

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
48.43	15.45	1.54	7.30	24.29	43.50	19.21	Peak
142.52	17.44	2.80	3.64	23.88	46.00	22.12	Peak
258.92	18.99	4.03	5.73	28.75	46.00	17.25	Peak
534.40	24.09	6.80	1.95	32.84	46.00	13.16	Peak
803.09	26.50	7.92	2.14	36.56	46.00	9.44	Peak
997.09	28.04	9.02	3.19	40.25	46.00	5.75	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
30.97	25.03	1.21	11.24	37.48	40.00	2.52	Peak
52.31	14.20	1.60	21.44	37.24	43.50	6.26	Peak
95.96	16.65	2.24	9.25	28.14	46.00	17.86	Peak
175.50	15.63	3.18	11.14	29.95	46.00	16.05	Peak
515.97	23.88	6.77	4.06	34.71	46.00	11.29	Peak
998.06	28.04	9.03	6.68	43.75	46.00	2.25	Peak

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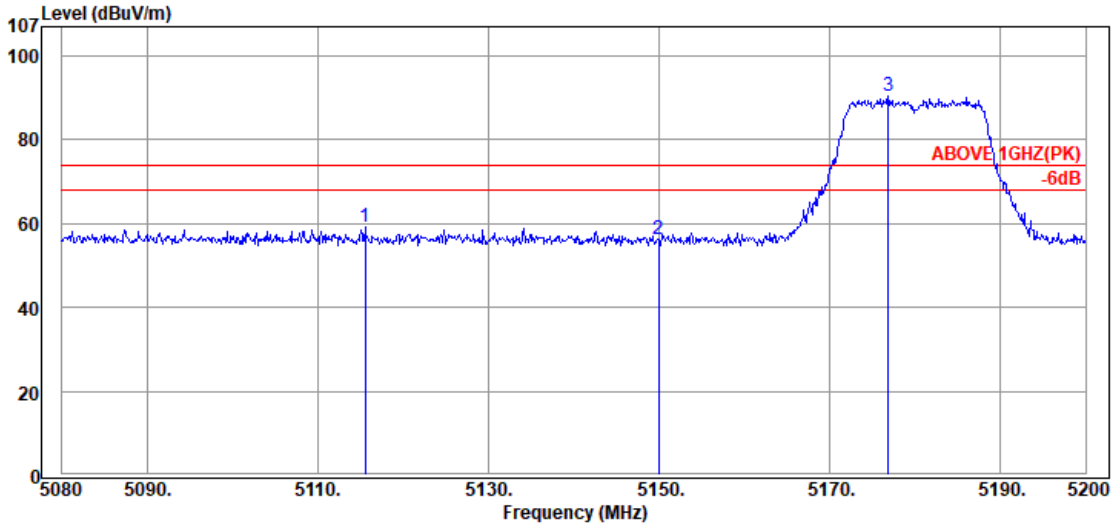
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

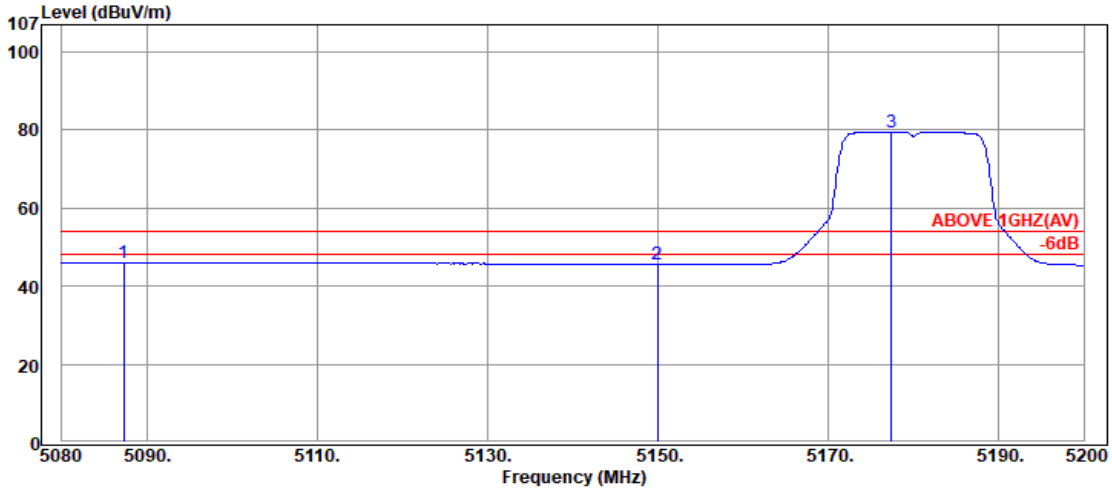
Band Edge:

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
	5115.52	33.83	8.71	16.72	59.26	74.00	14.74	Peak
	5149.96	33.90	8.73	13.48	56.11	74.00	17.89	Peak
@	5176.84	34.01	8.74	47.54	90.29	---	---	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
	5087.32	33.80	8.69	3.48	45.97	54.00	8.03	Average
	5149.96	33.90	8.73	3.02	45.65	54.00	8.35	Average
@	5177.44	34.01	8.74	36.85	79.60	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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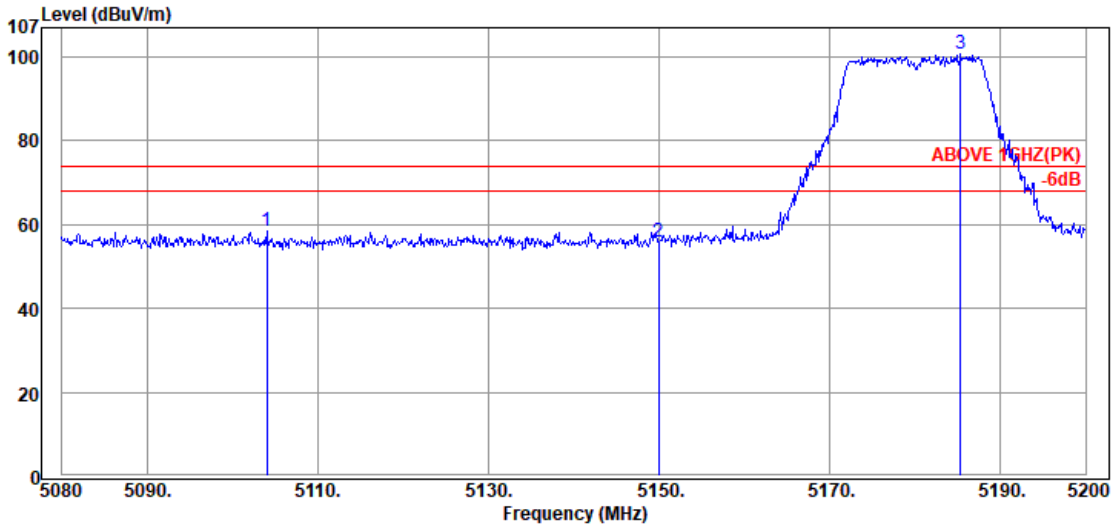
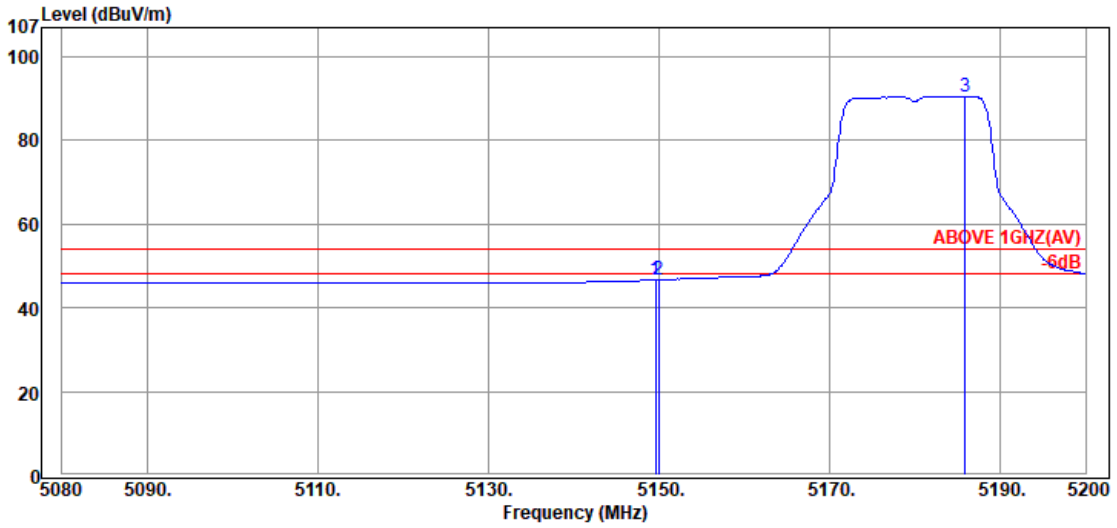
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz



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
	5104.00	33.81	8.70	15.99	58.50	74.00	15.50	Peak
	5149.96	33.90	8.73	13.28	55.91	74.00	18.09	Peak
@	5185.36	34.04	8.75	57.95	100.74	---	---	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
	5149.60	33.90	8.73	4.04	46.67	54.00	7.33	Average
	5149.96	33.90	8.73	4.07	46.70	54.00	7.30	Average
@	5185.84	34.04	8.75	47.73	90.52	---	---	Average

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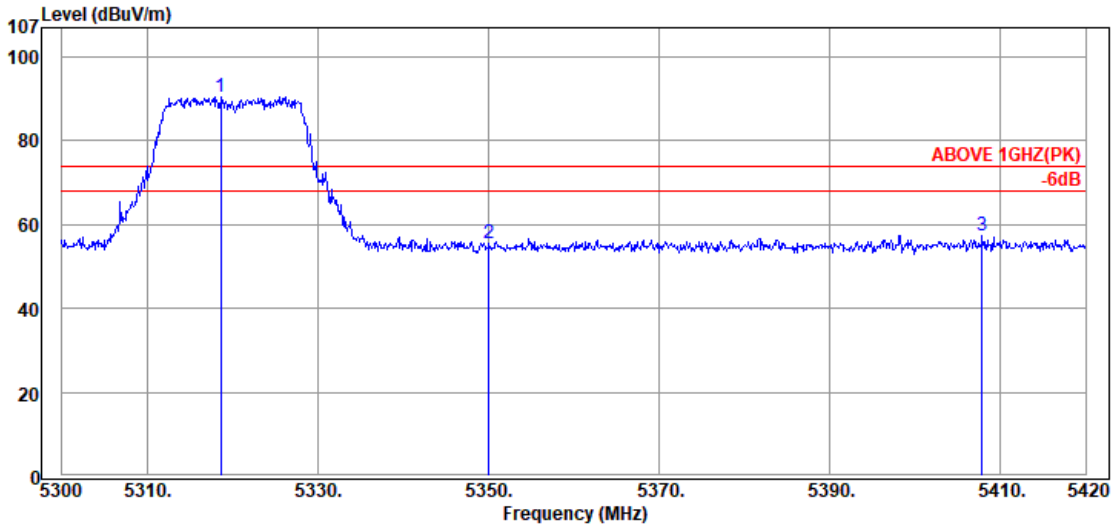
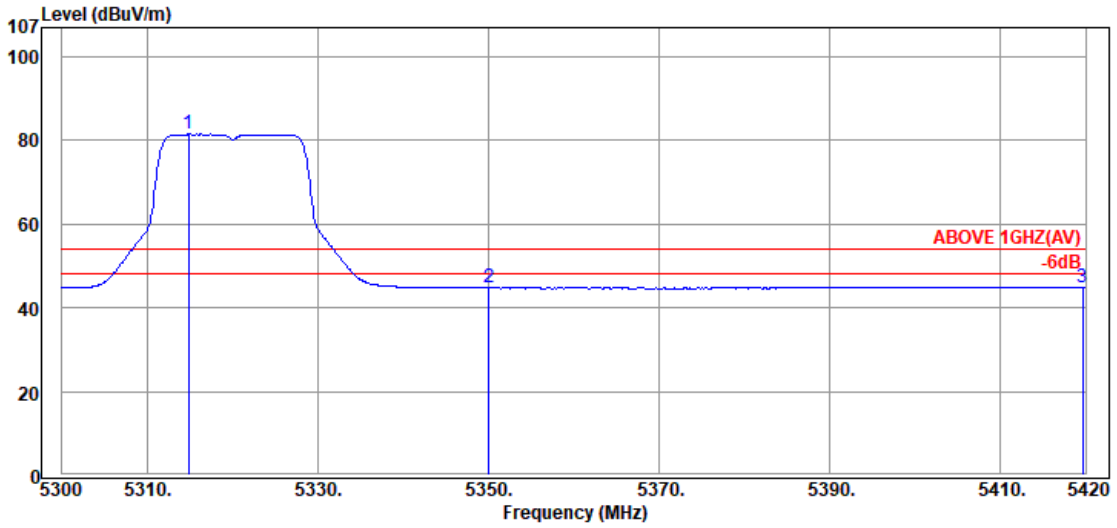
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



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
@	5318.60	34.50	8.82	47.23	90.55	---	---	Peak
	5350.04	34.50	8.84	12.01	55.35	74.00	18.65	Peak
	5407.88	34.50	8.87	14.12	57.49	74.00	16.51	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
@	5314.88	34.50	8.82	38.17	81.49	---	---	Average
	5350.04	34.50	8.84	1.38	44.72	54.00	9.28	Average
	5419.64	34.50	8.88	1.63	45.01	54.00	8.99	Average

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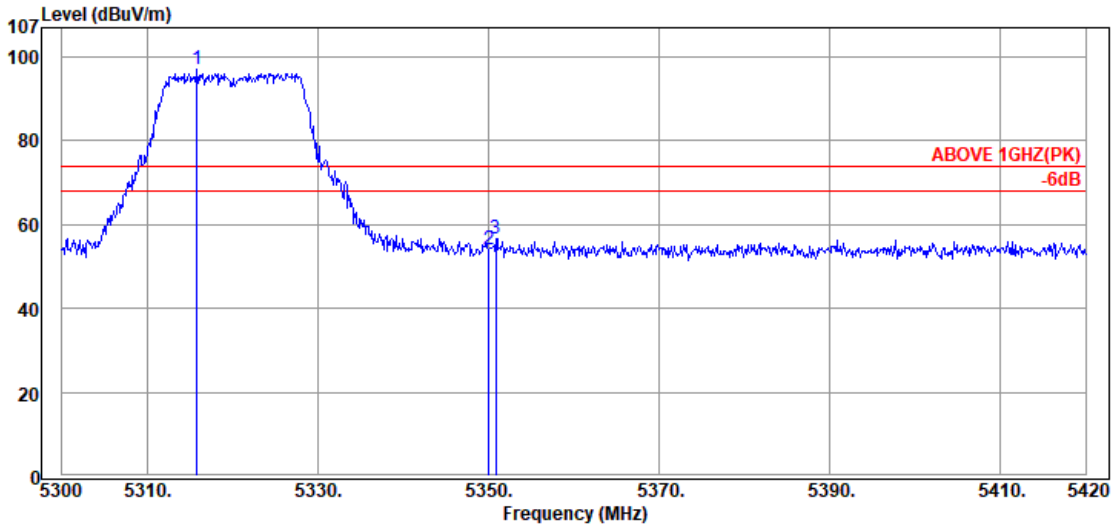
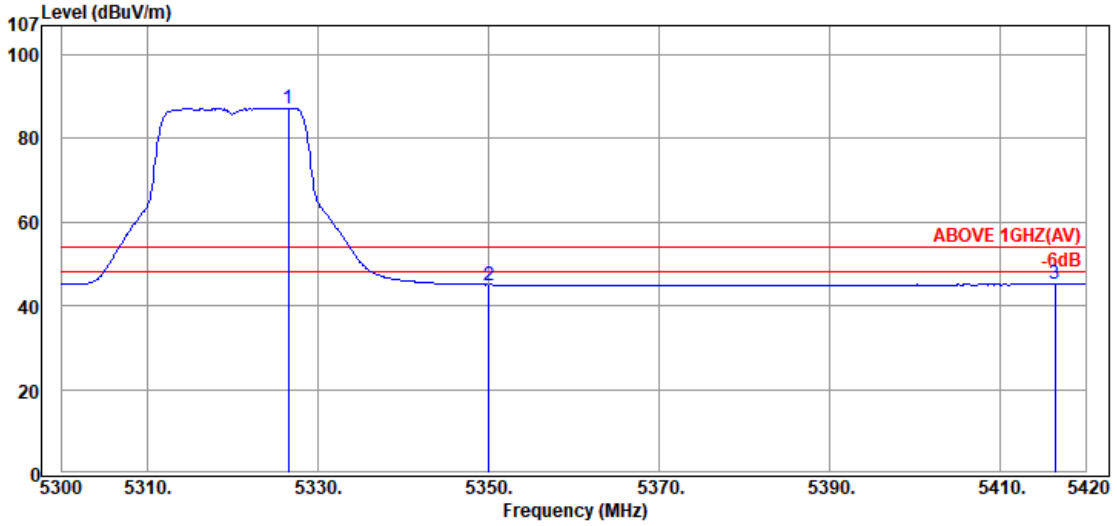
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz



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
@	5315.84	34.50	8.82	53.61	96.93	---	---	Peak
	5350.04	34.50	8.84	10.82	54.16	74.00	19.84	Peak
	5350.88	34.50	8.84	13.34	56.68	74.00	17.32	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
@	5326.52	34.50	8.83	43.91	87.24	---	---	Average
	5350.04	34.50	8.84	1.70	45.04	54.00	8.96	Average
	5416.40	34.50	8.88	1.79	45.17	54.00	8.83	Average

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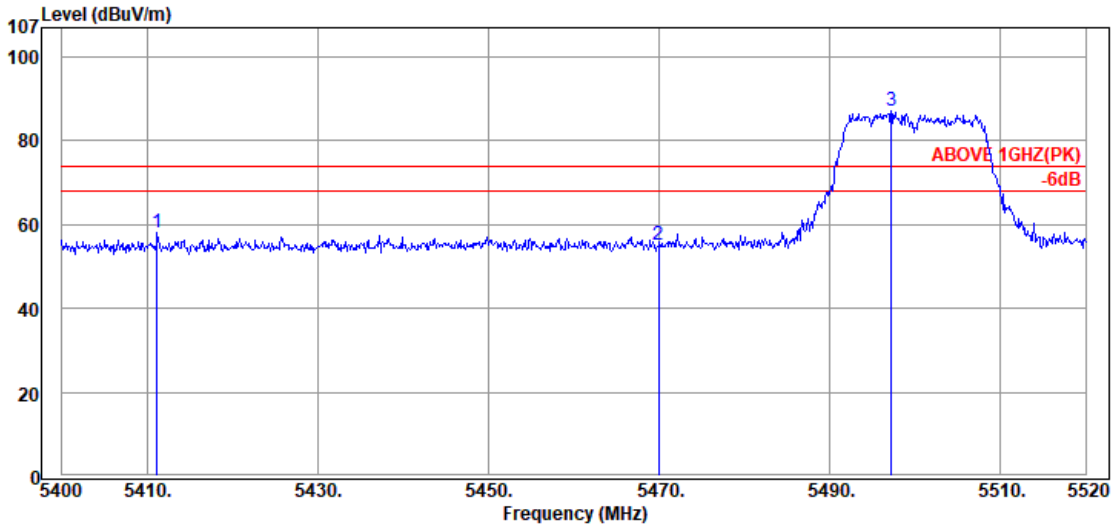
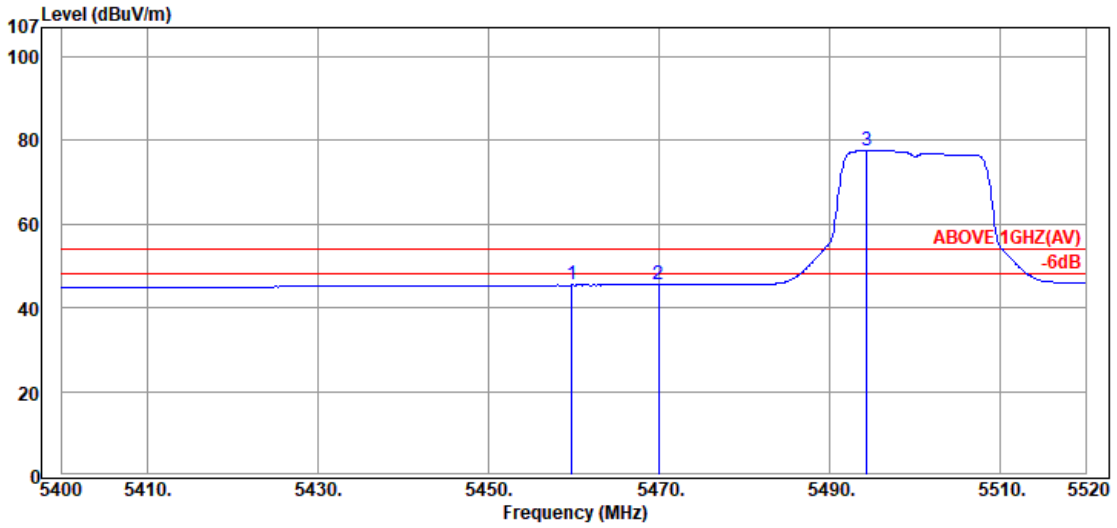
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



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
	5411.16	34.50	8.87	14.62	57.99	74.00	16.01	Peak
	5469.96	34.50	8.91	11.92	55.33	74.00	18.67	Peak
@	5497.20	34.50	8.92	43.78	87.20	---	---	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5459.76	34.50	8.90	2.03	45.43	54.00	8.57	Average
	5469.96	34.50	8.91	2.08	45.49	54.00	8.51	Average
@	5494.32	34.50	8.92	34.11	77.53	---	---	Average

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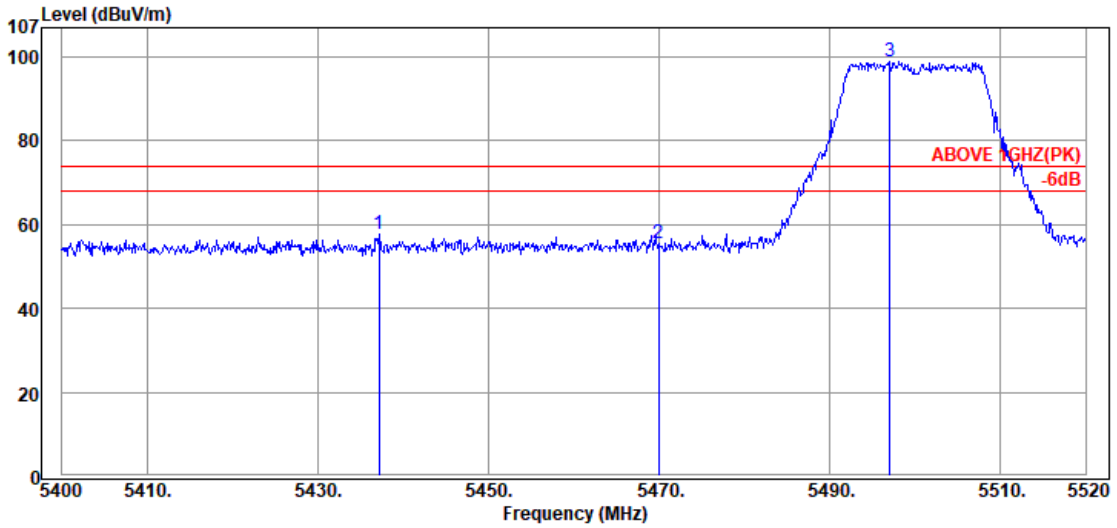
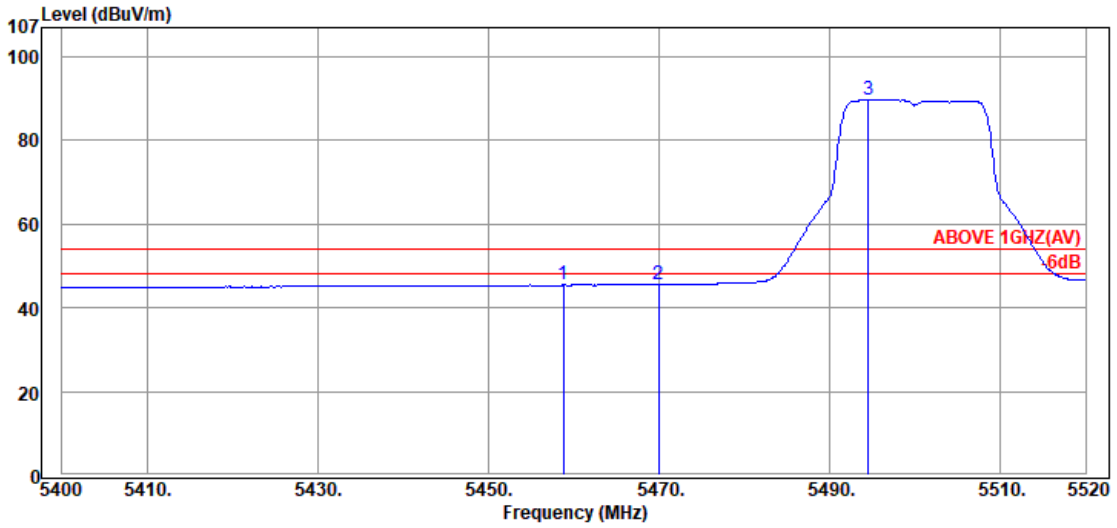
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5500MHz



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
	5437.20	34.50	8.89	14.30	57.69	74.00	16.31	Peak
	5469.96	34.50	8.91	12.06	55.47	74.00	18.53	Peak
@	5497.08	34.50	8.92	55.63	99.05	---	---	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5458.80	34.50	8.90	2.06	45.46	54.00	8.54	Average
	5469.96	34.50	8.91	2.17	45.58	54.00	8.42	Average
@	5494.56	34.50	8.92	46.24	89.66	---	---	Average

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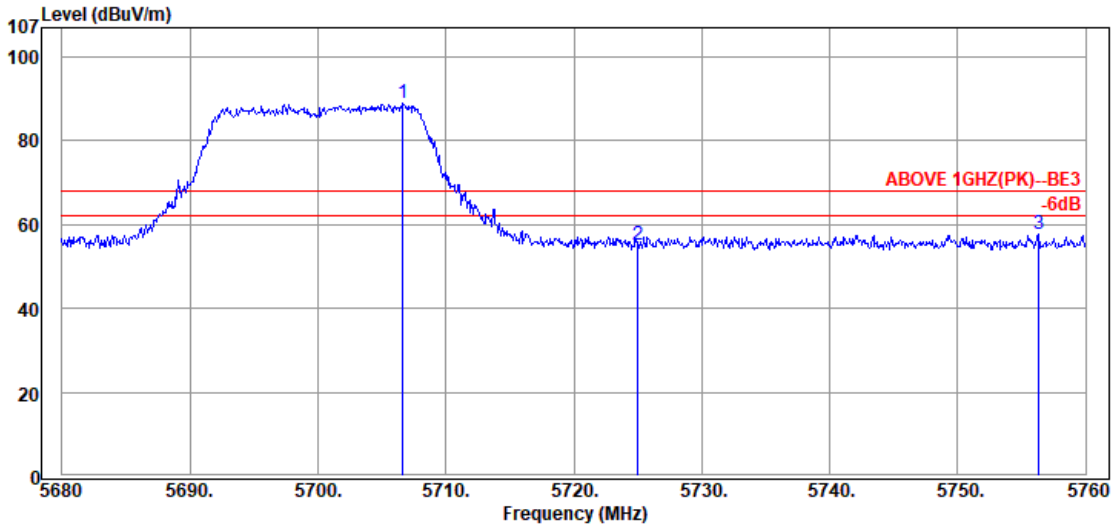
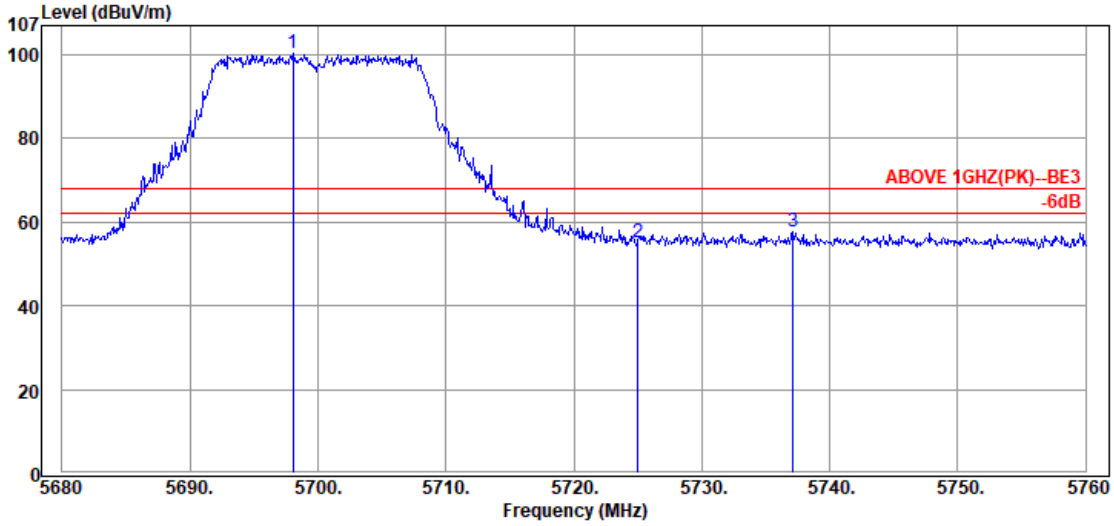
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz



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
@	5706.64	34.40	9.03	45.66	89.09	---	---	Peak
	5725.04	34.40	9.04	11.60	55.04	68.20	13.16	Peak
	5756.32	34.37	9.06	14.16	57.59	68.20	10.61	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5698.08	34.41	9.03	56.85	100.29	---	---	Peak
	5725.04	34.40	9.04	11.77	55.21	68.20	12.99	Peak
	5737.12	34.40	9.05	14.13	57.58	68.20	10.62	Peak

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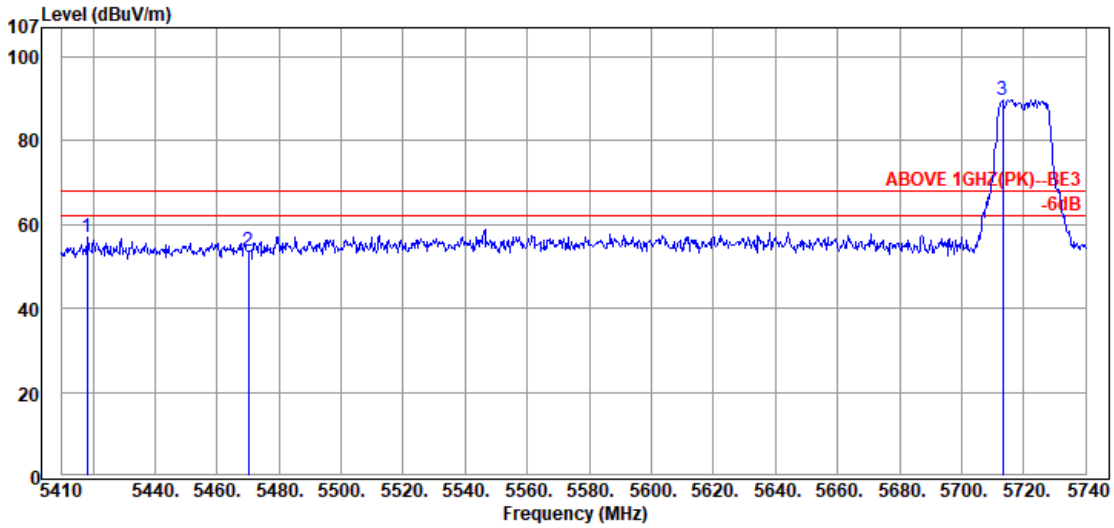
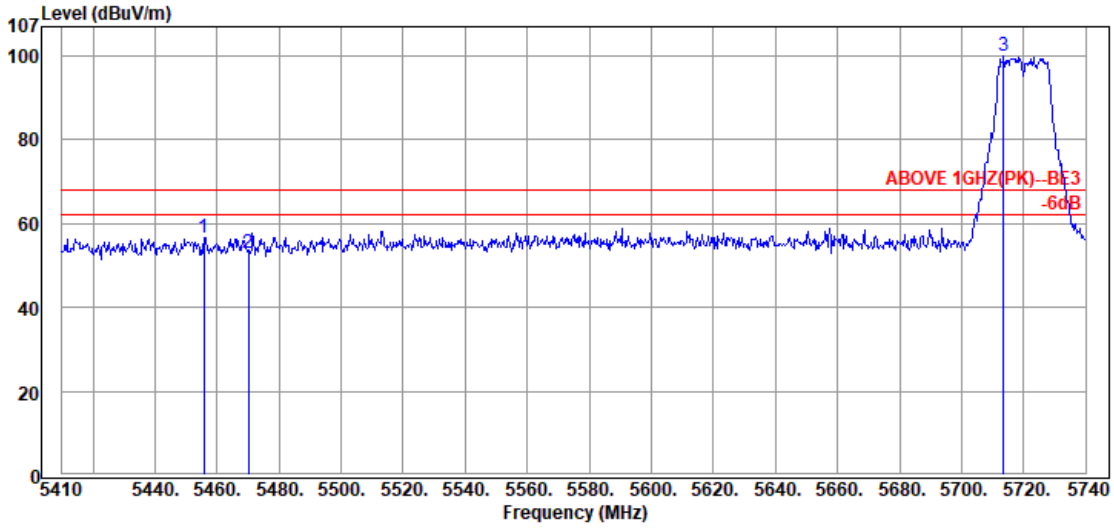
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5720MHz



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
	5418.25	34.50	8.88	13.58	56.96	68.20	11.24	Peak
	5470.06	34.50	8.91	10.33	53.74	68.20	14.46	Peak
@	5713.27	34.40	9.03	46.44	89.87	---	---	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
	5455.87	34.50	8.90	13.12	56.52	68.20	11.68	Peak
	5470.06	34.50	8.91	9.37	52.78	68.20	15.42	Peak
@	5713.60	34.40	9.04	56.57	100.01	---	---	Peak

Remark: The "@" means fundamental frequency, it is ignored in this section.

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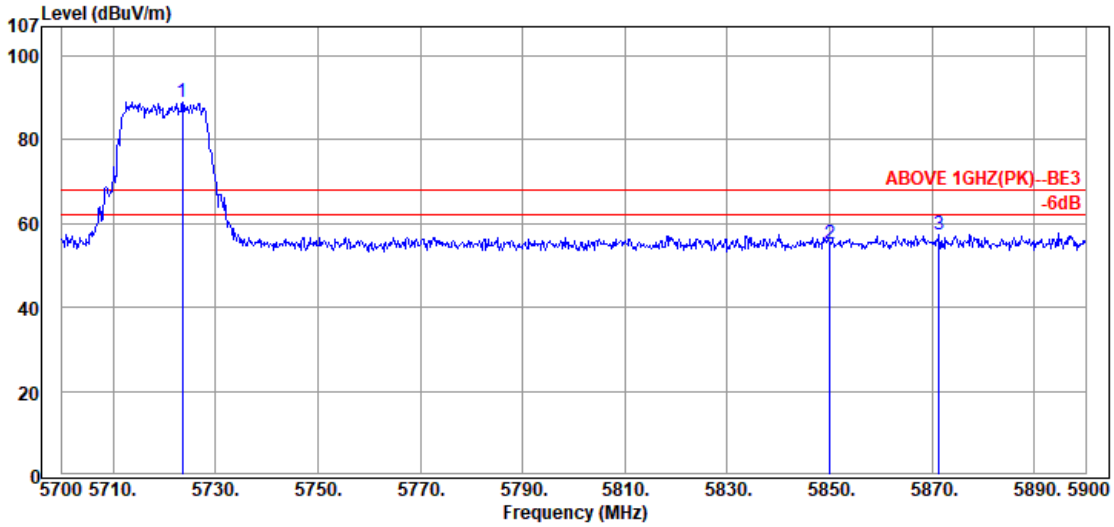
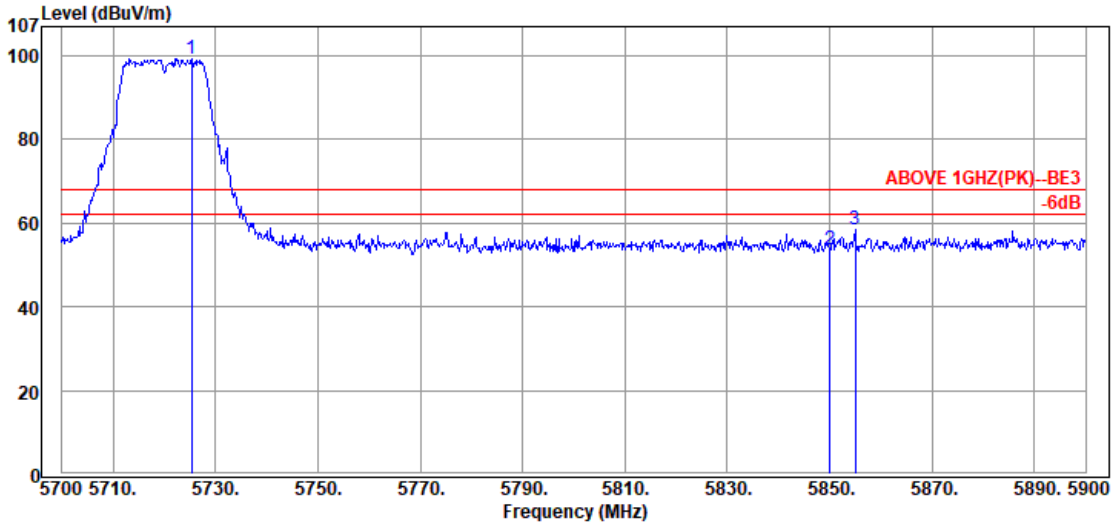
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5720MHz



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
@	5723.60	34.40	9.04	45.46	88.90	---	---	Peak
	5850.00	34.40	9.11	11.80	55.31	68.20	12.89	Peak
	5871.40	34.44	9.12	13.85	57.41	68.20	10.79	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5725.40	34.40	9.04	55.85	99.29	---	---	Peak
	5850.00	34.40	9.11	10.35	53.86	68.20	14.34	Peak
	5855.00	34.41	9.11	14.82	58.34	68.20	9.86	Peak

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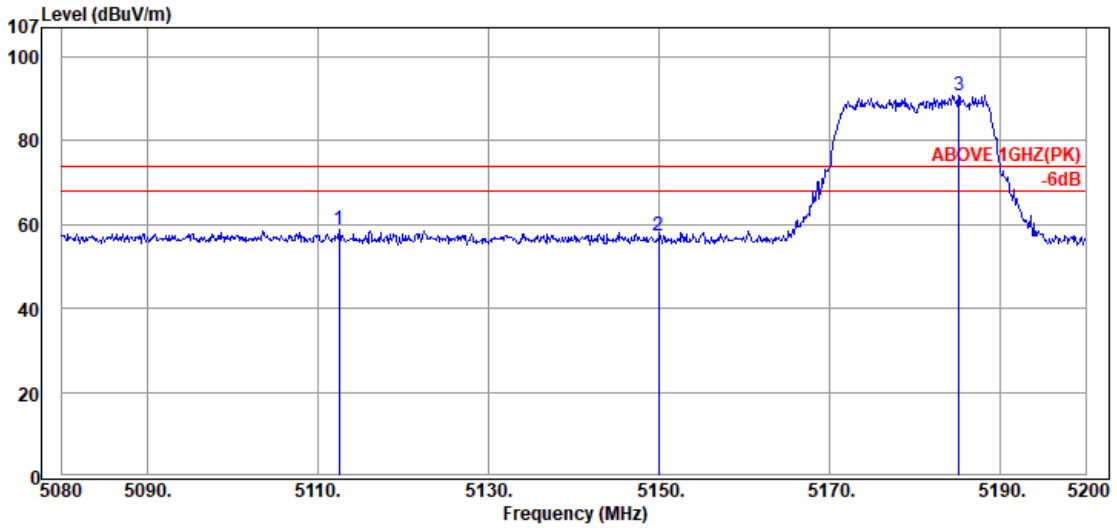
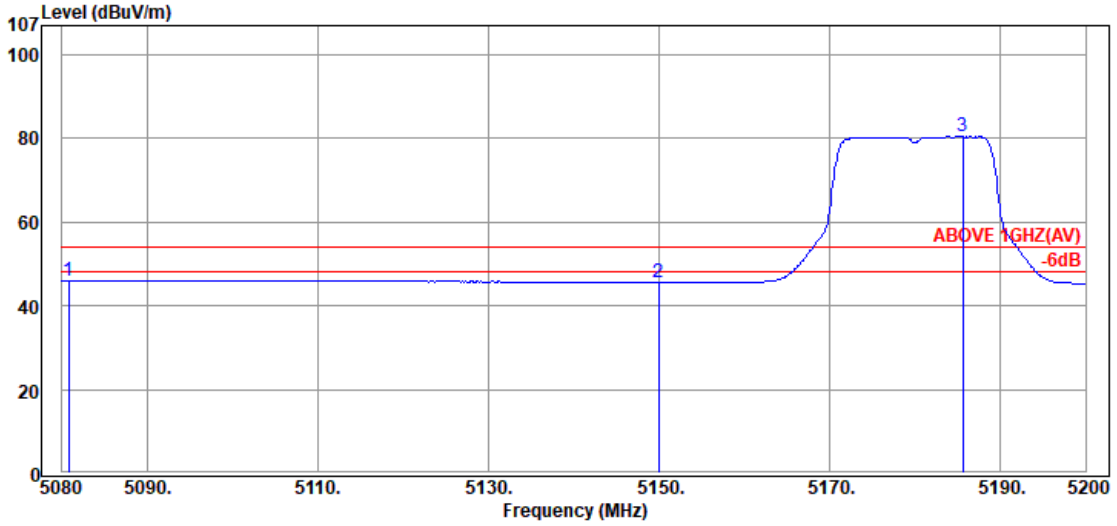
Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



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
	5112.52	33.83	8.71	16.46	59.00	74.00	15.00	Peak
	5149.96	33.90	8.73	14.71	57.34	74.00	16.66	Peak
@	5185.12	34.04	8.75	48.19	90.98	---	---	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
	5080.84	33.80	8.69	3.52	46.01	54.00	7.99	Average
	5149.96	33.90	8.73	3.01	45.64	54.00	8.36	Average
@	5185.60	34.04	8.75	37.64	80.43	---	---	Average

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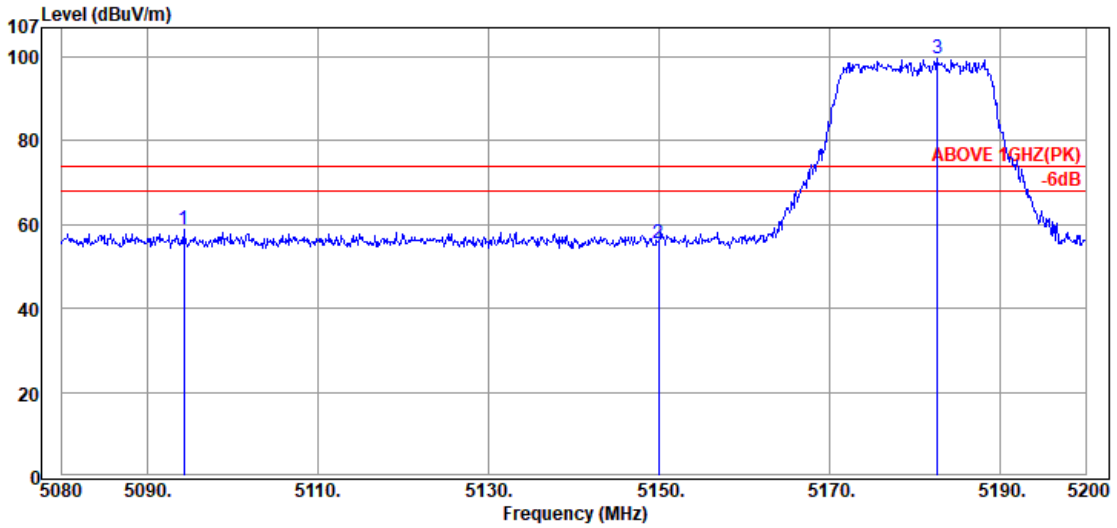
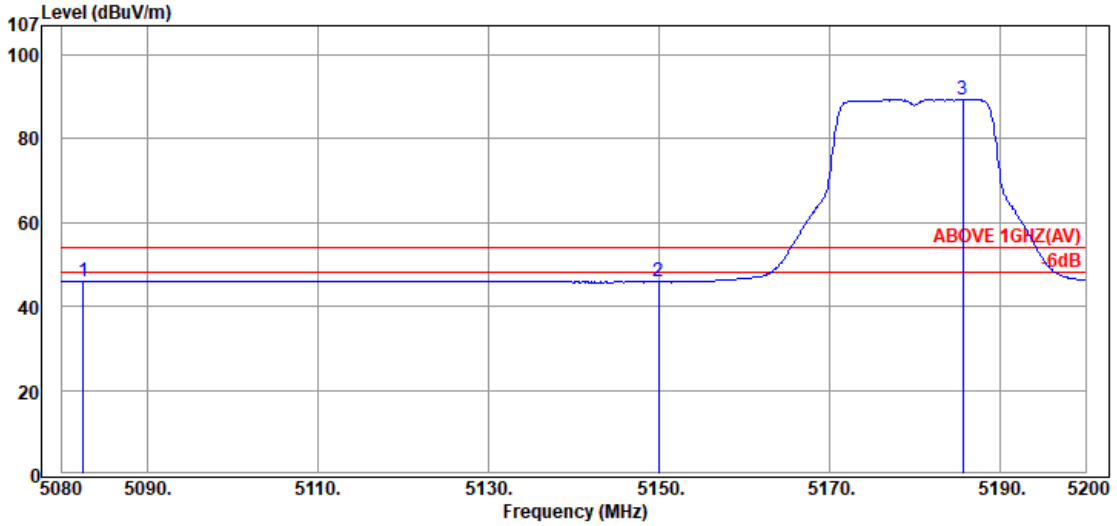
Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz



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
	5094.28	33.80	8.70	16.35	58.85	74.00	15.15	Peak
	5149.96	33.90	8.73	12.88	55.51	74.00	18.49	Peak
@	5182.60	34.03	8.75	56.77	99.55	---	---	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
	5082.52	33.80	8.69	3.54	46.03	54.00	7.97	Average
	5149.96	33.90	8.73	3.18	45.81	54.00	8.19	Average
@	5185.60	34.04	8.75	46.53	89.32	---	---	Average

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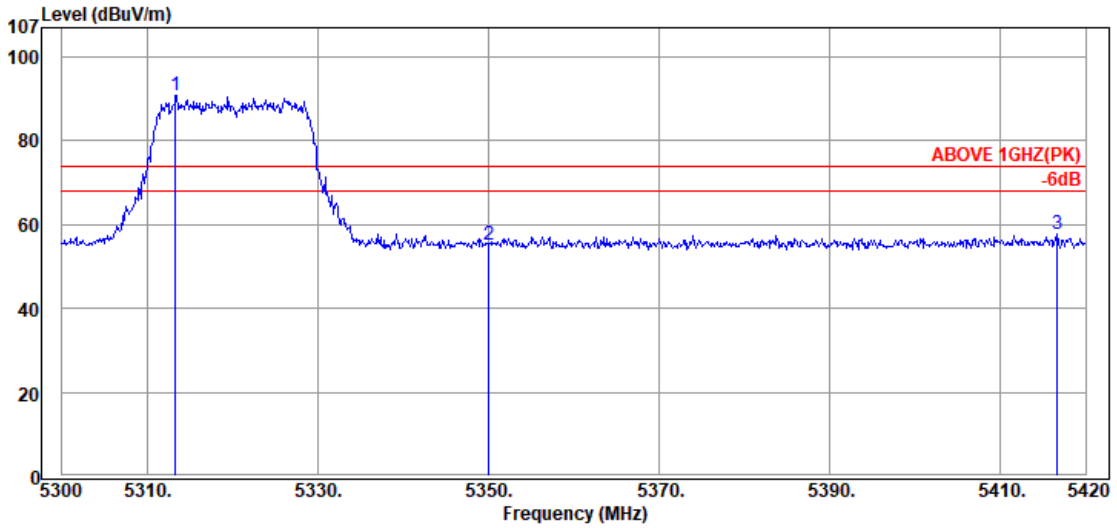
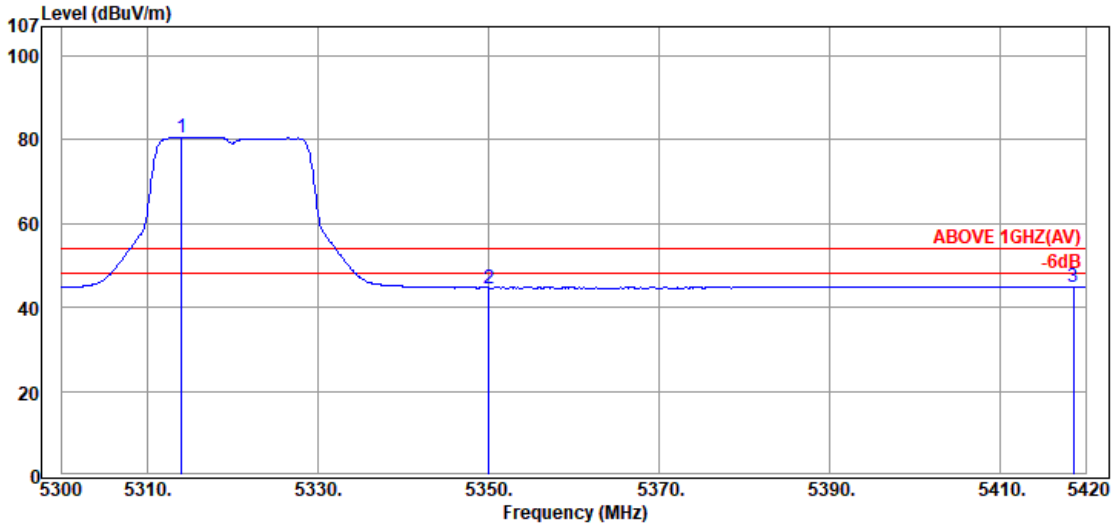
Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



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
@	5313.32	34.50	8.82	47.54	90.86	---	---	Peak
	5350.04	34.50	8.84	11.71	55.05	74.00	18.95	Peak
	5416.64	34.50	8.88	14.44	57.82	74.00	16.18	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
@	5314.04	34.50	8.82	37.28	80.60	---	---	Average
	5350.04	34.50	8.84	1.32	44.66	54.00	9.34	Average
	5418.56	34.50	8.88	1.65	45.03	54.00	8.97	Average

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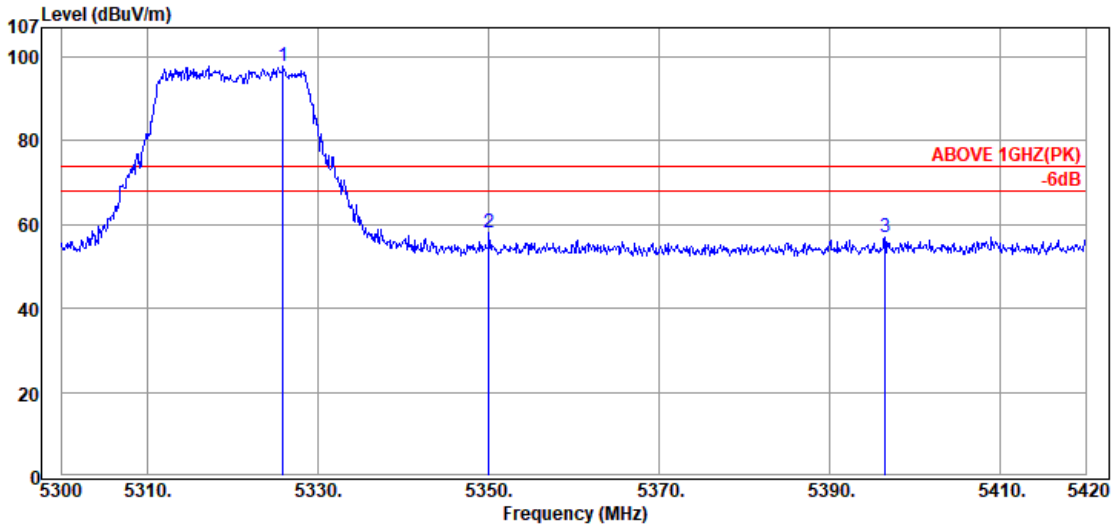
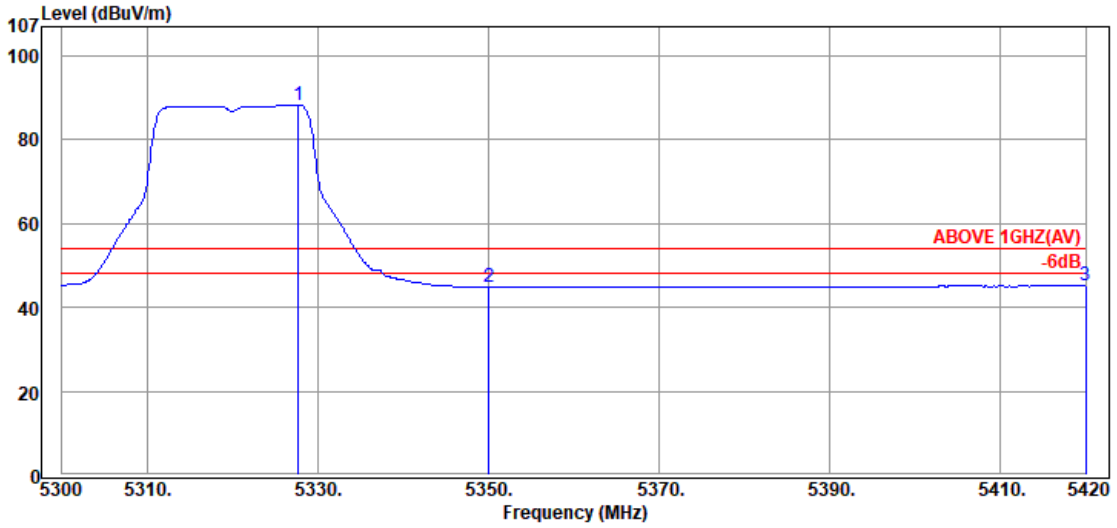
Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5320MHz



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
@	5325.92	34.50	8.83	54.47	97.80	---	---	Peak
	5350.04	34.50	8.84	14.94	58.28	74.00	15.72	Peak
	5396.48	34.50	8.87	13.49	56.86	74.00	17.14	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5327.72	34.50	8.83	45.04	88.37	---	---	Average
	5350.04	34.50	8.84	1.53	44.87	54.00	9.13	Average
	5420.00	34.50	8.88	1.79	45.17	54.00	8.83	Average

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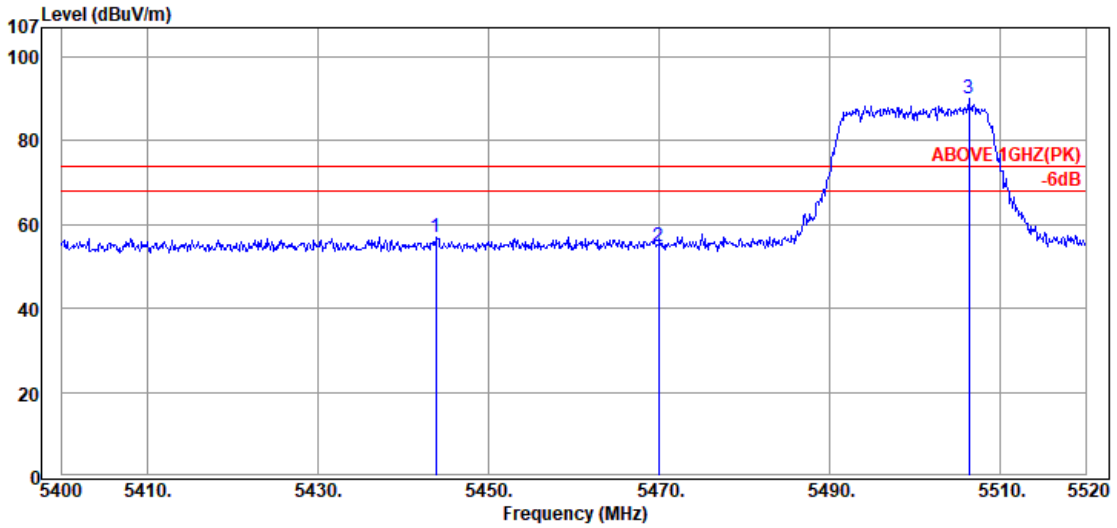
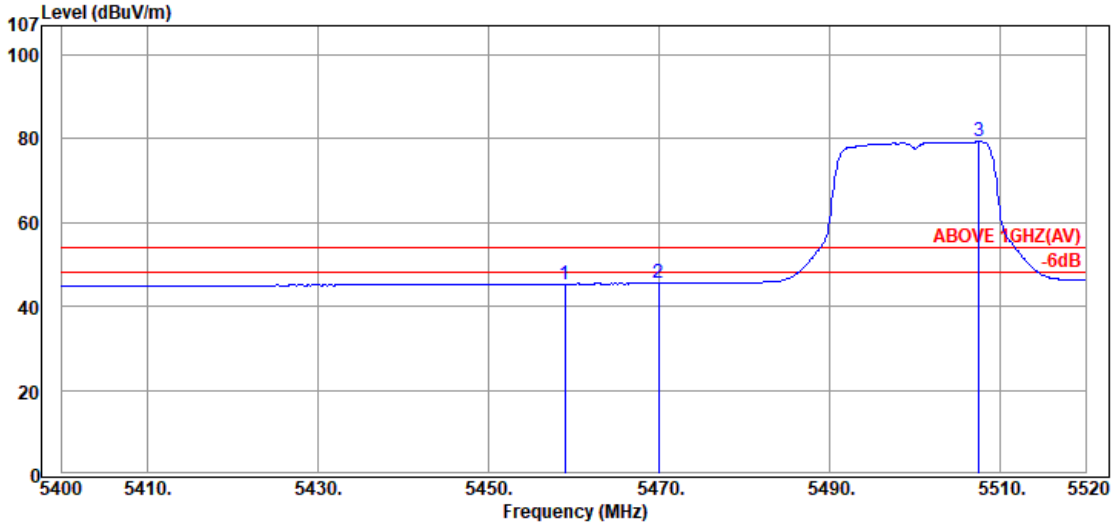
Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



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
	5443.80	34.50	8.89	13.64	57.03	74.00	16.97	Peak
	5469.96	34.50	8.91	11.43	54.84	74.00	19.16	Peak
@	5506.32	34.51	8.93	46.65	90.09	---	---	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
	5458.92	34.50	8.90	2.00	45.40	54.00	8.60	Average
	5469.96	34.50	8.91	2.09	45.50	54.00	8.50	Average
@	5507.52	34.52	8.93	35.94	79.39	---	---	Average

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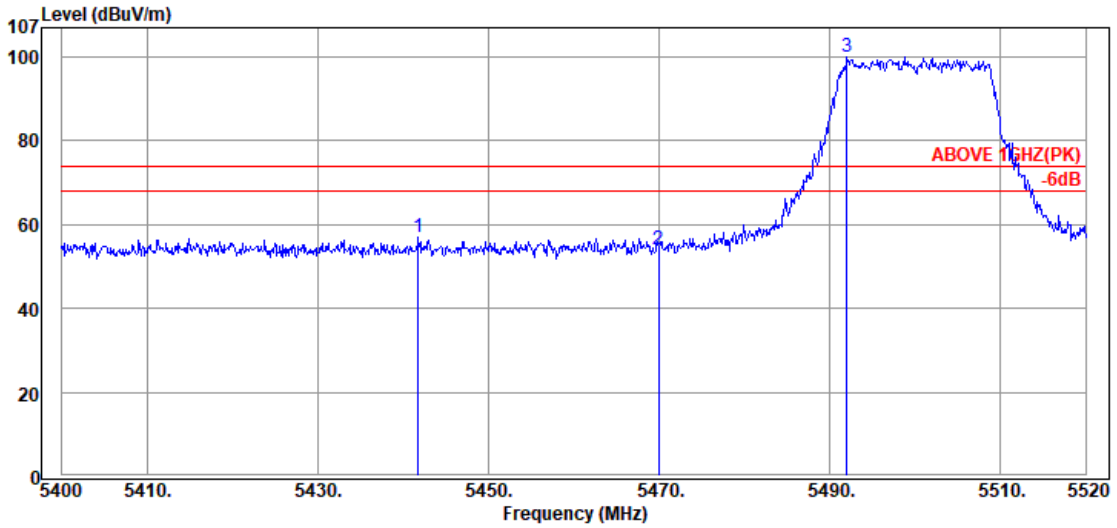
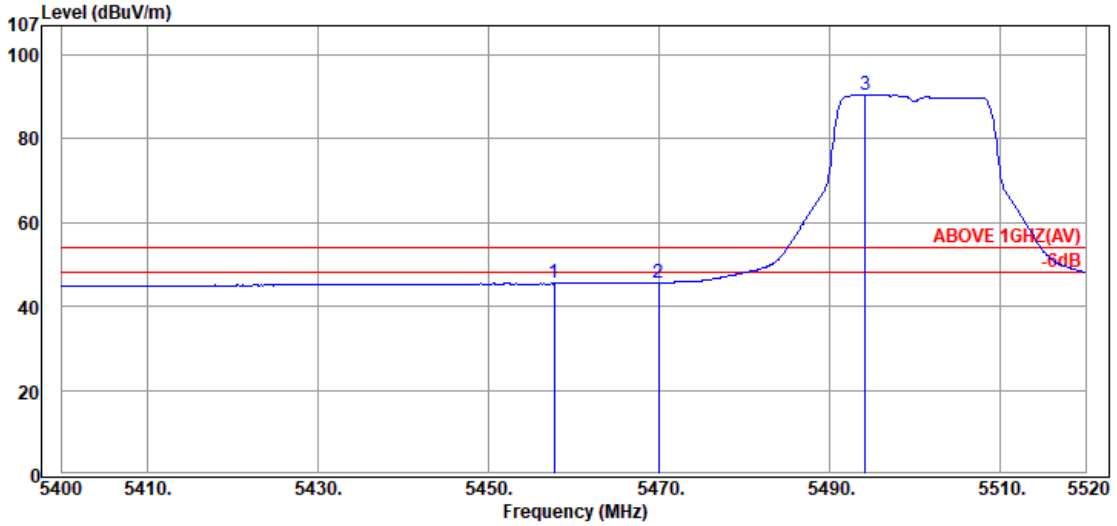
Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5500MHz



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
	5441.76	34.50	8.89	13.67	57.06	74.00	16.94	Peak
	5469.96	34.50	8.91	10.61	54.02	74.00	19.98	Peak
@	5492.04	34.50	8.92	56.68	100.10	---	---	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
	5457.72	34.50	8.90	2.09	45.49	54.00	8.51	Average
	5469.96	34.50	8.91	2.28	45.69	54.00	8.31	Average
@	5494.20	34.50	8.92	47.03	90.45	---	---	Average

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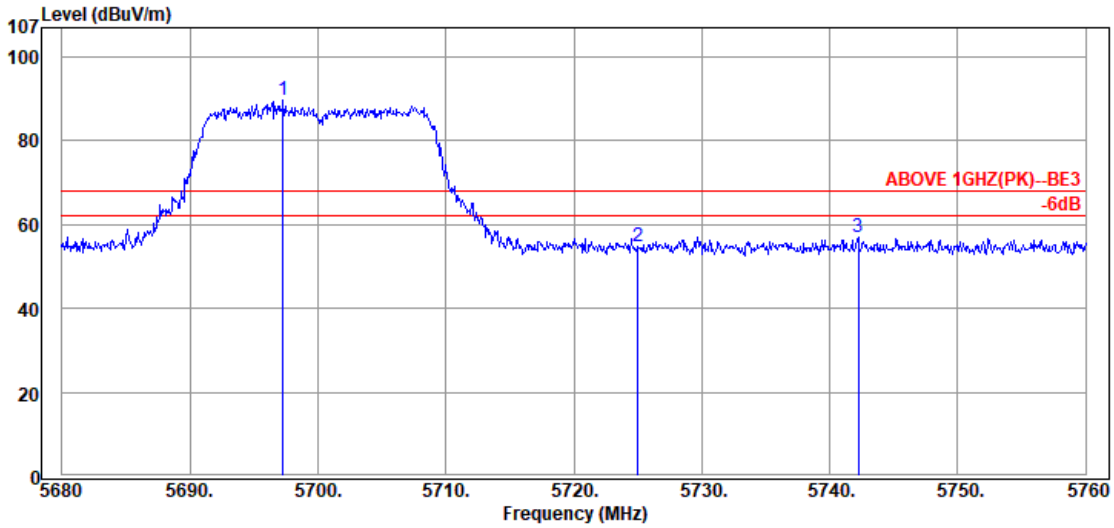
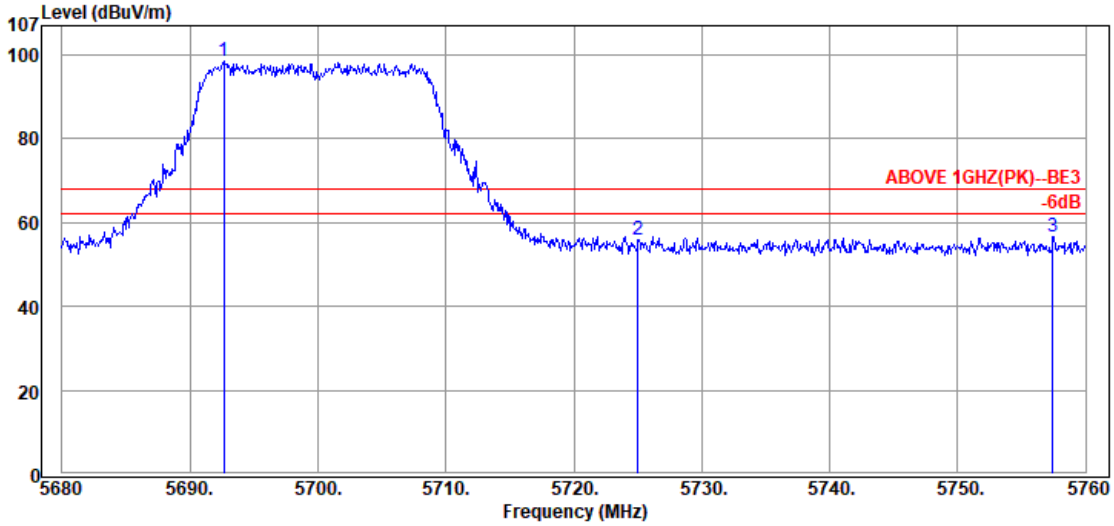
Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5700MHz



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
@	5697.28	34.41	9.03	46.13	89.57	---	---	Peak
	5725.04	34.40	9.04	11.40	54.84	68.20	13.36	Peak
	5742.24	34.40	9.05	13.56	57.01	68.20	11.19	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
@	5692.64	34.43	9.02	55.25	98.70	---	---	Peak
	5725.04	34.40	9.04	12.42	55.86	68.20	12.34	Peak
	5757.44	34.37	9.06	13.26	56.69	68.20	11.51	Peak

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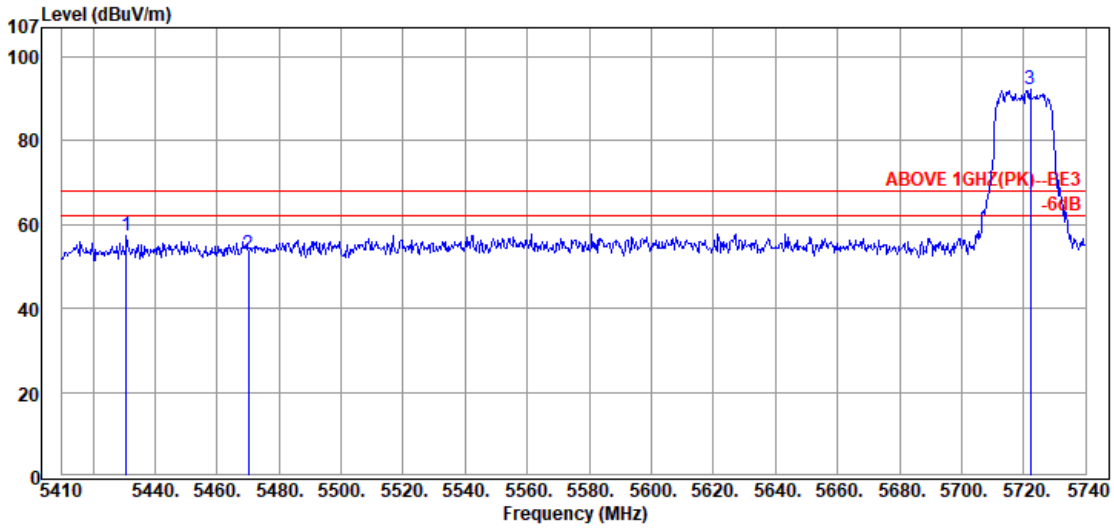
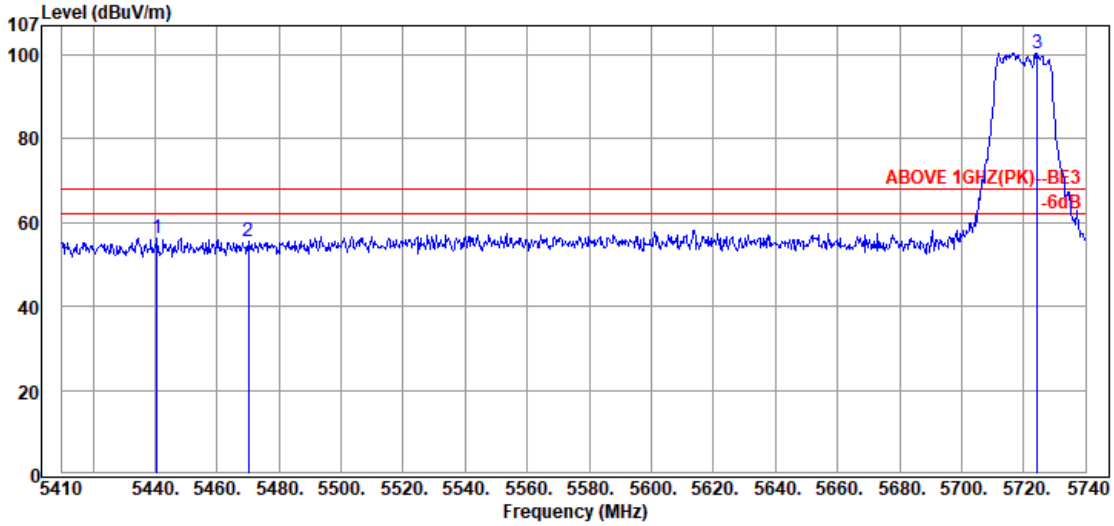
Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5720MHz



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
	5430.79	34.50	8.88	13.83	57.21	68.20	10.99	Peak
	5470.06	34.50	8.91	9.70	53.11	68.20	15.09	Peak
@	5722.18	34.40	9.04	49.03	92.47	---	---	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5440.69	34.50	8.89	12.76	56.15	68.20	12.05	Peak
	5470.06	34.50	8.91	12.23	55.64	68.20	12.56	Peak
@	5724.49	34.40	9.04	57.11	100.55	---	---	Peak

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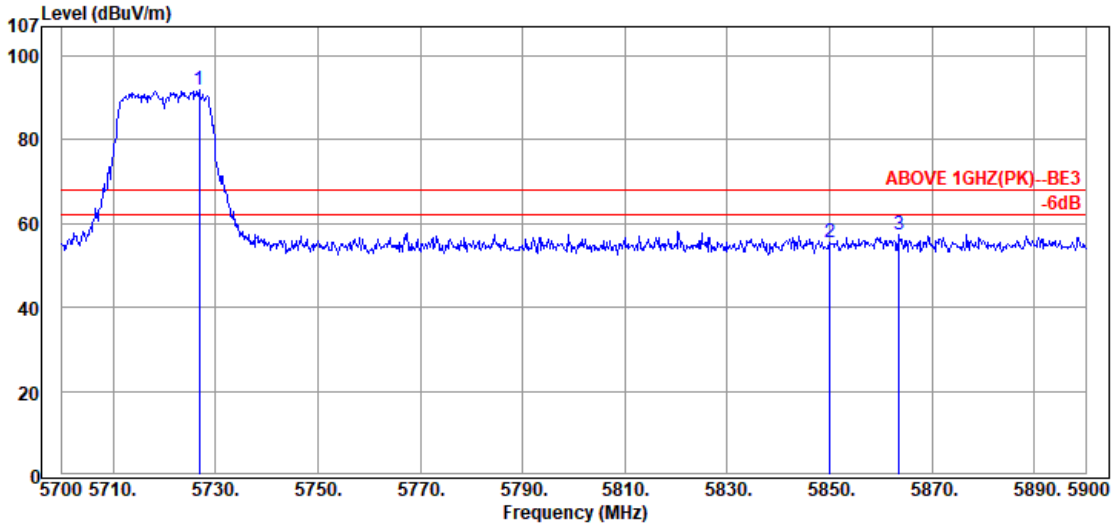
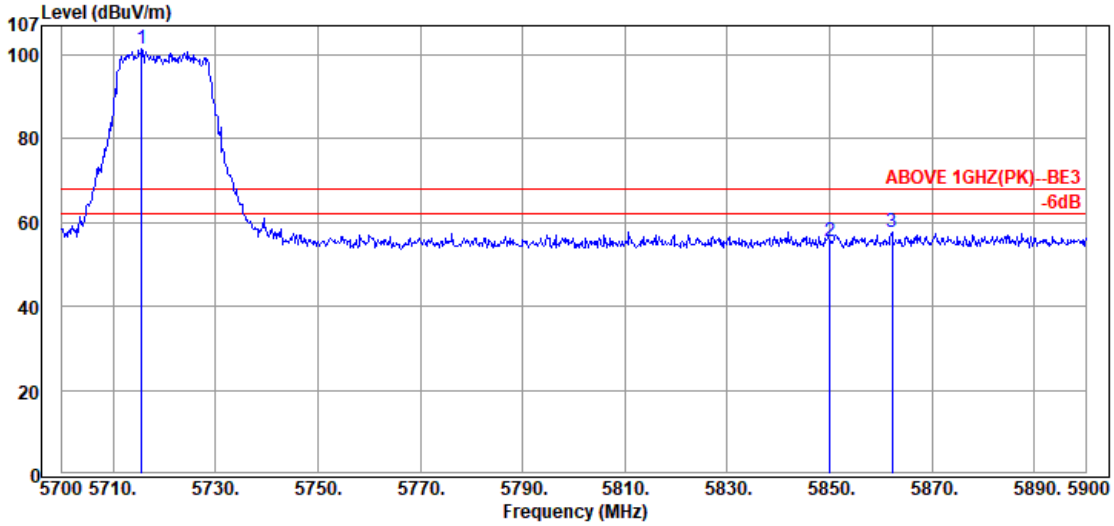
Mode	802.11n-HT20	UNII Band	II-2C
		Frequency	TX 5720MHz



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
@	5726.80	34.40	9.04	48.41	91.85	---	---	Peak
	5850.00	34.40	9.11	11.85	55.36	68.20	12.84	Peak
	5863.60	34.43	9.11	14.00	57.54	68.20	10.66	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
@	5715.60	34.40	9.04	57.91	101.35	---	---	Peak
	5850.00	34.40	9.11	12.11	55.62	68.20	12.58	Peak
	5862.20	34.42	9.11	14.03	57.56	68.20	10.64	Peak

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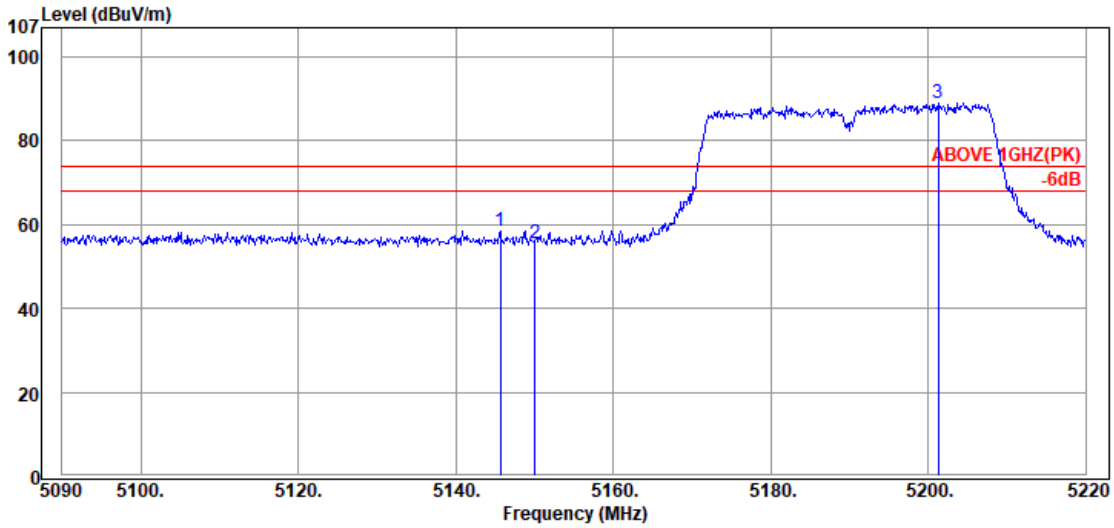
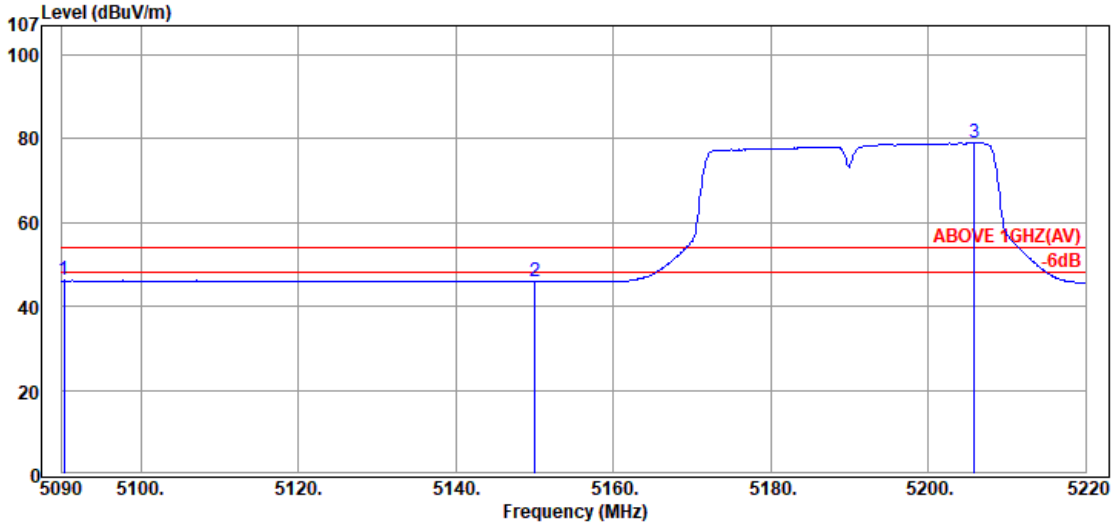
Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



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
	5145.64	33.89	8.73	15.86	58.48	74.00	15.52	Peak
	5150.06	33.90	8.73	12.96	55.59	74.00	18.41	Peak
@	5201.28	34.11	8.76	46.05	88.92	---	---	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
	5090.26	33.80	8.69	3.67	46.16	54.00	7.84	Average
	5150.06	33.90	8.73	3.28	45.91	54.00	8.09	Average
@	5205.83	34.13	8.76	36.05	78.94	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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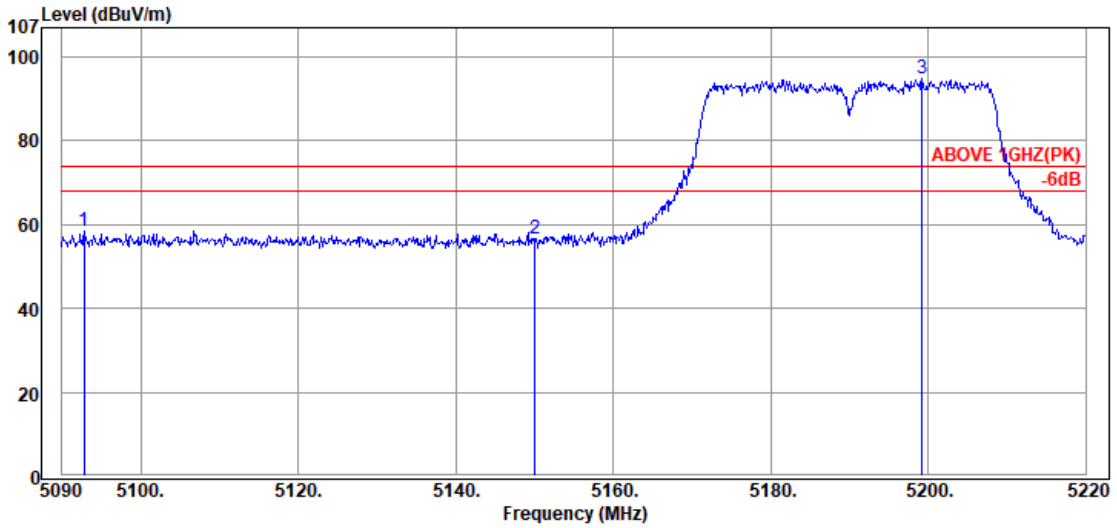
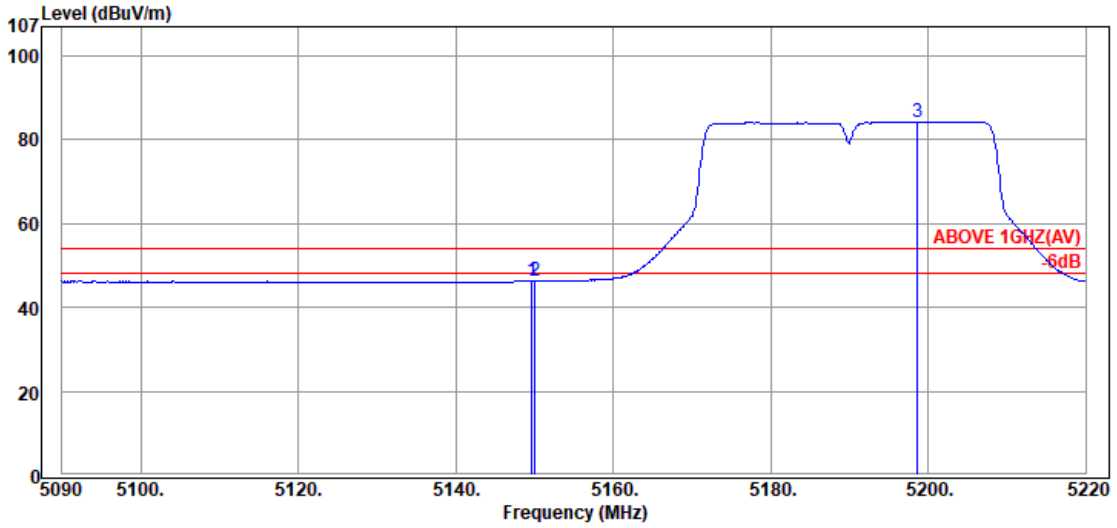
Mode	802.11n-HT40	UNII Band	I
		Frequency	TX 5190MHz



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
	5092.86	33.80	8.69	16.13	58.62	74.00	15.38	Peak
	5150.06	33.90	8.73	13.90	56.53	74.00	17.47	Peak
@	5199.20	34.10	8.76	51.92	94.78	---	---	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
	5149.67	33.90	8.73	3.58	46.21	54.00	7.79	Average
	5150.06	33.90	8.73	3.59	46.22	54.00	7.78	Average
@	5198.68	34.09	8.76	41.46	84.31	---	---	Average

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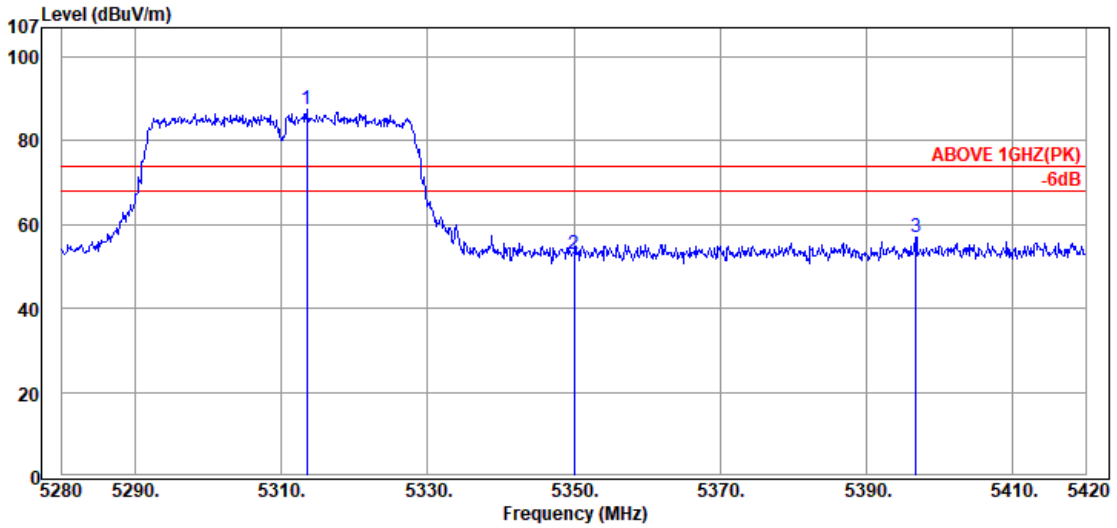
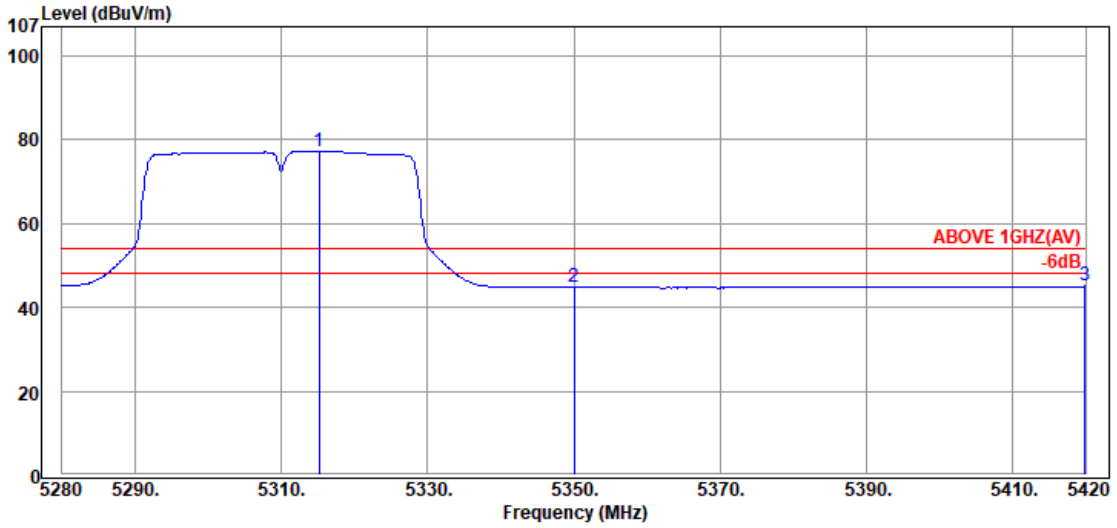
Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



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
@	5313.46	34.50	8.82	44.07	87.39	---	---	Peak
	5350.00	34.50	8.84	9.72	53.06	74.00	20.94	Peak
	5396.76	34.50	8.87	13.47	56.84	74.00	17.16	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
@	5315.14	34.50	8.82	34.05	77.37	---	---	Average
	5350.00	34.50	8.84	1.39	44.73	54.00	9.27	Average
	5419.86	34.50	8.88	1.68	45.06	54.00	8.94	Average

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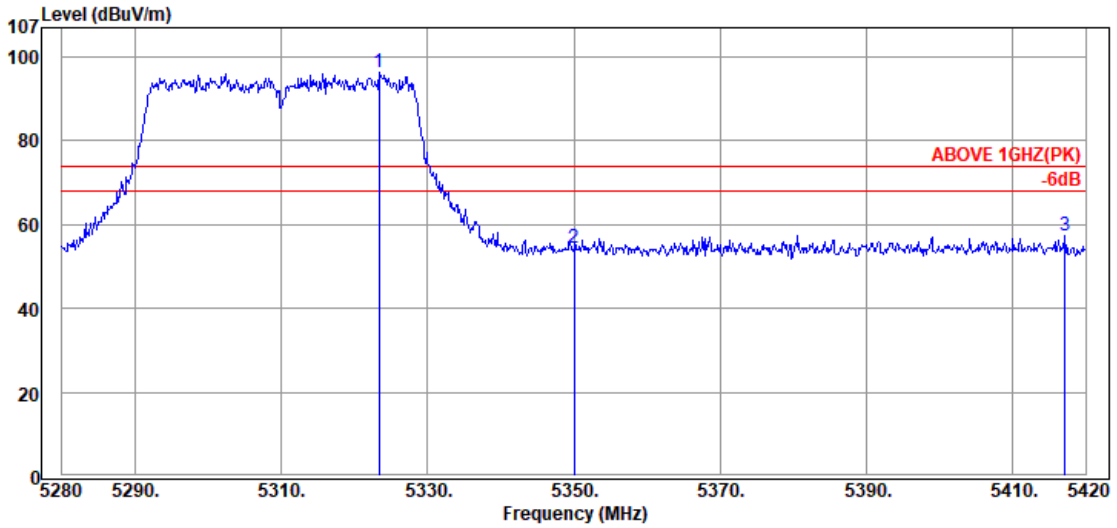
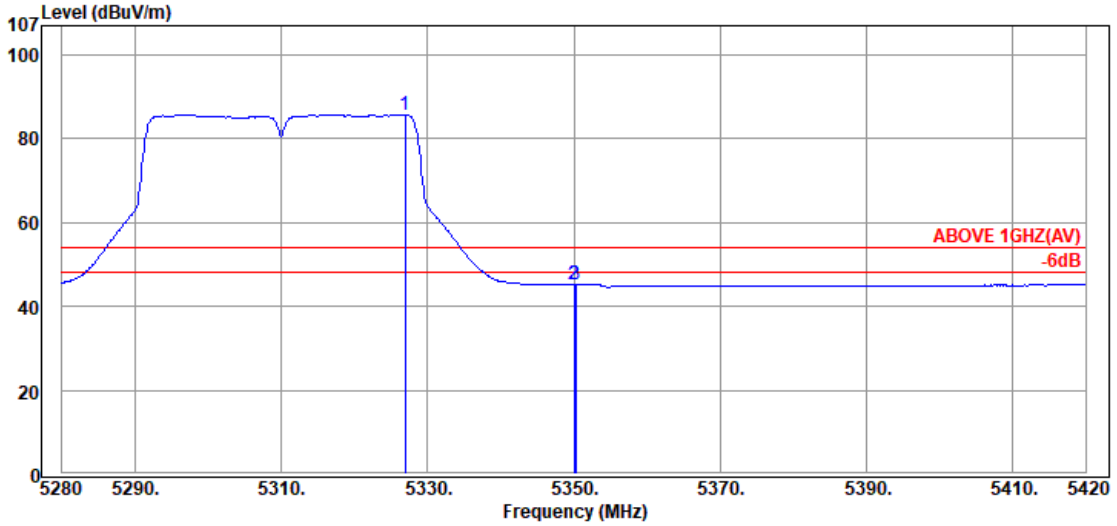
Mode	802.11n-HT40	UNII Band	II-2A
		Frequency	TX 5310MHz



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
@	5323.40	34.50	8.83	52.94	96.27	---	---	Peak
	5350.00	34.50	8.84	11.16	54.50	74.00	19.50	Peak
	5417.20	34.50	8.88	14.00	57.38	74.00	16.62	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
@	5326.90	34.50	8.83	42.45	85.78	---	---	Average
	5350.00	34.50	8.84	1.87	45.21	54.00	8.79	Average
	5350.28	34.50	8.84	1.85	45.19	54.00	8.81	Average

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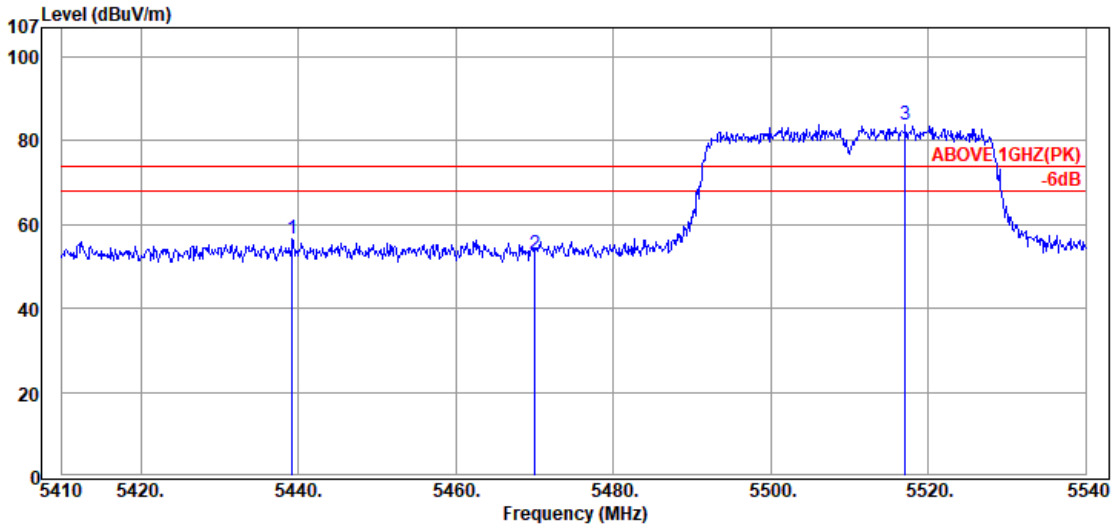
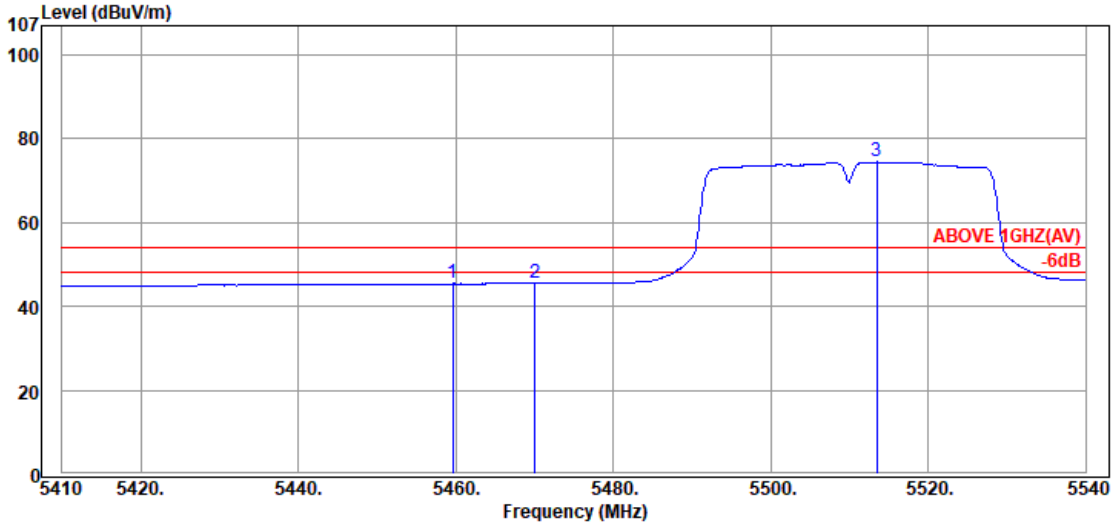
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



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
	5439.25	34.50	8.89	13.08	56.47	74.00	17.53	Peak
	5470.06	34.50	8.91	9.39	52.80	74.00	21.20	Peak
@	5517.12	34.53	8.93	40.32	83.78	---	---	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
	5459.66	34.50	8.90	2.02	45.42	54.00	8.58	Average
	5470.06	34.50	8.91	2.07	45.48	54.00	8.52	Average
@	5513.48	34.53	8.93	31.00	74.46	---	---	Average

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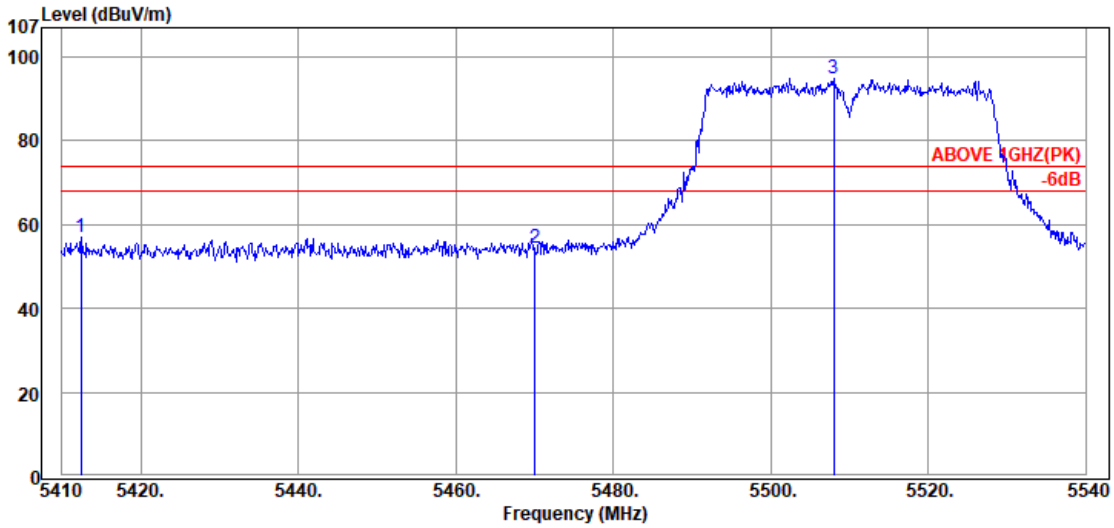
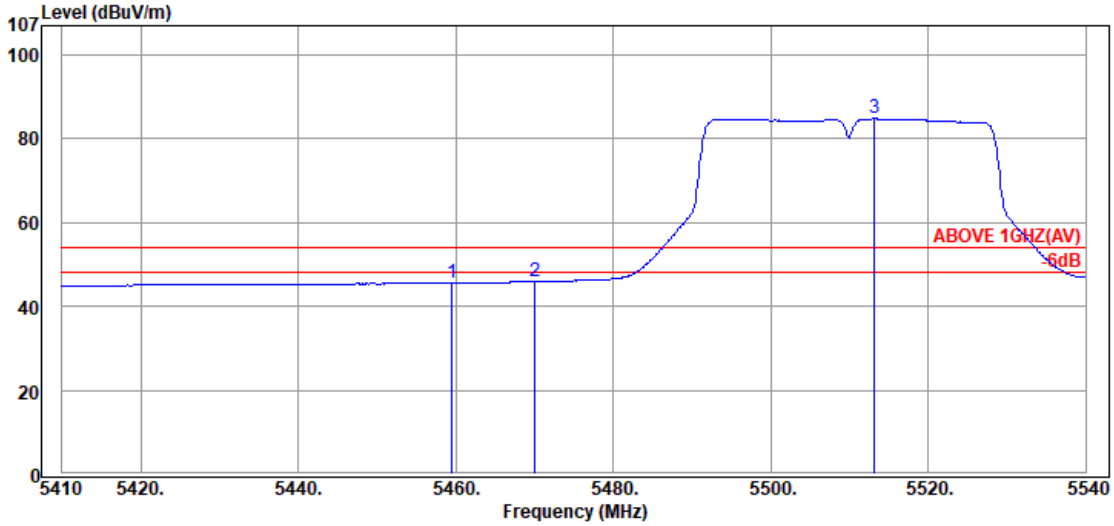
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5510MHz



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
	5412.47	34.50	8.87	13.47	56.84	74.00	17.16	Peak
	5470.06	34.50	8.91	11.01	54.42	74.00	19.58	Peak
@	5508.02	34.52	8.93	51.45	94.90	---	---	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
	5459.53	34.50	8.90	2.16	45.56	54.00	8.44	Average
	5470.06	34.50	8.91	2.50	45.91	54.00	8.09	Average
@	5513.22	34.53	8.93	41.36	84.82	---	---	Average

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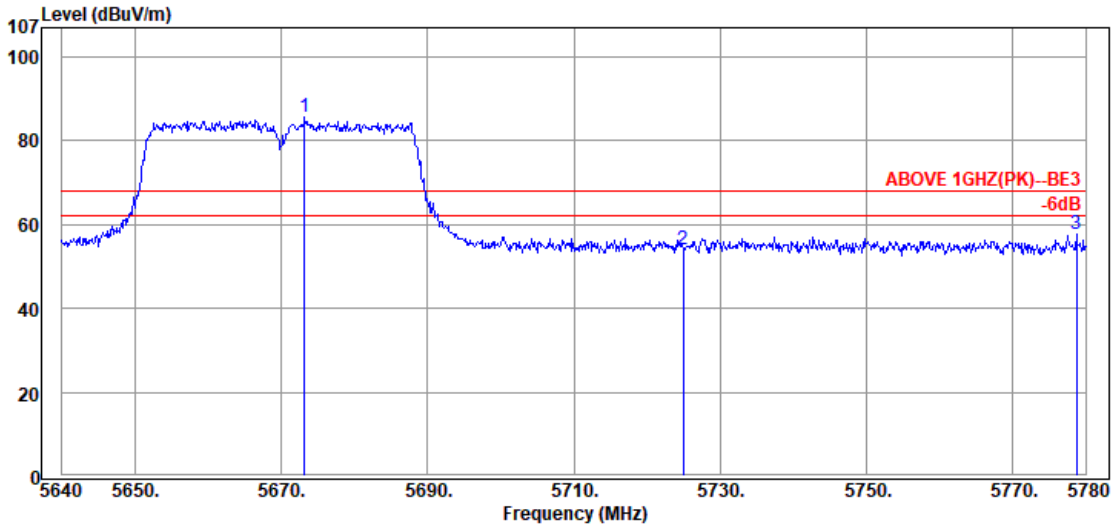
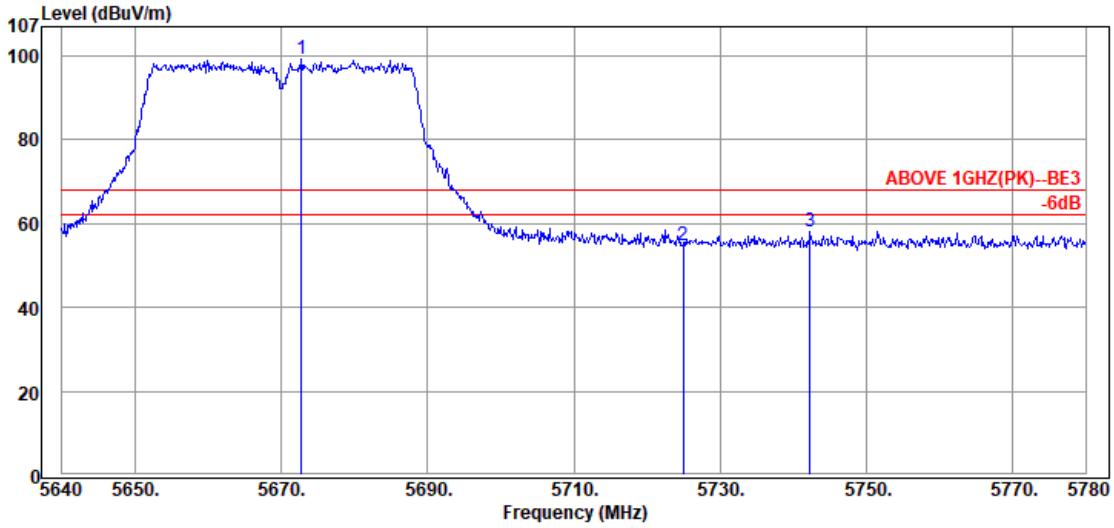
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5670MHz



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
@	5673.18	34.51	9.01	42.22	85.74	---	---	Peak
	5724.98	34.40	9.04	10.58	54.02	68.20	14.18	Peak
	5778.74	34.29	9.07	14.20	57.56	68.20	10.64	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
@	5672.76	34.51	9.01	55.60	99.12	---	---	Peak
	5724.98	34.40	9.04	11.25	54.69	68.20	13.51	Peak
	5742.34	34.40	9.05	14.78	58.23	68.20	9.97	Peak

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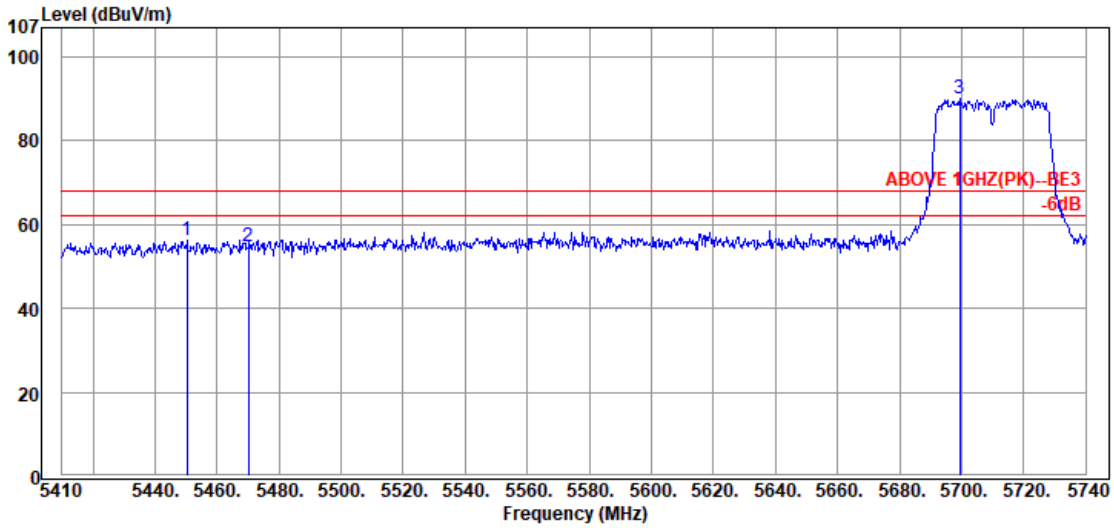
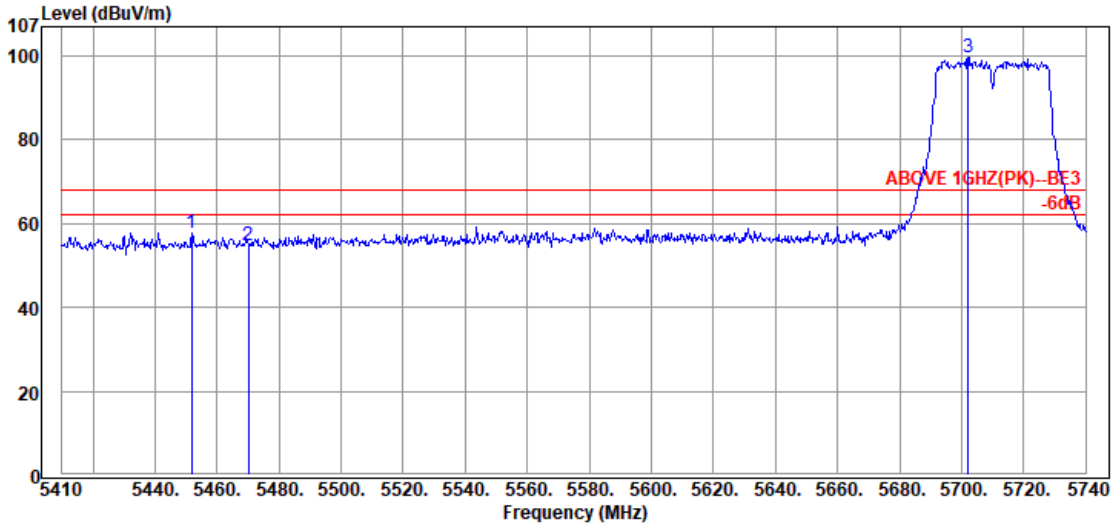
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5710MHz



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
	5450.26	34.50	8.90	12.67	56.07	68.20	12.13	Peak
	5470.06	34.50	8.91	11.42	54.83	68.20	13.37	Peak
@	5699.41	34.40	9.03	46.52	89.95	---	---	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5451.91	34.50	8.90	14.34	57.74	68.20	10.46	Peak
	5470.06	34.50	8.91	11.53	54.94	68.20	13.26	Peak
@	5702.05	34.40	9.03	56.24	99.67	---	---	Peak

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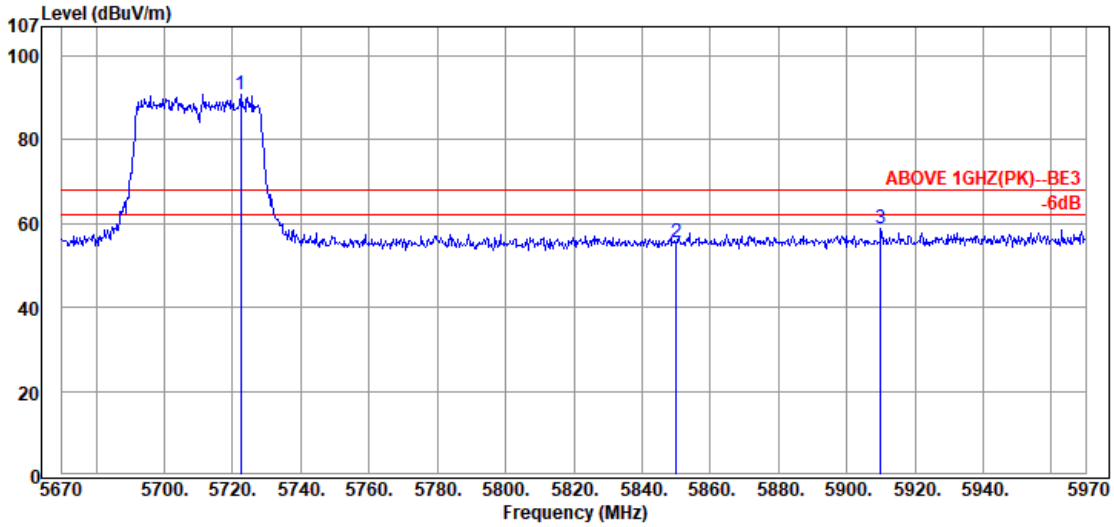
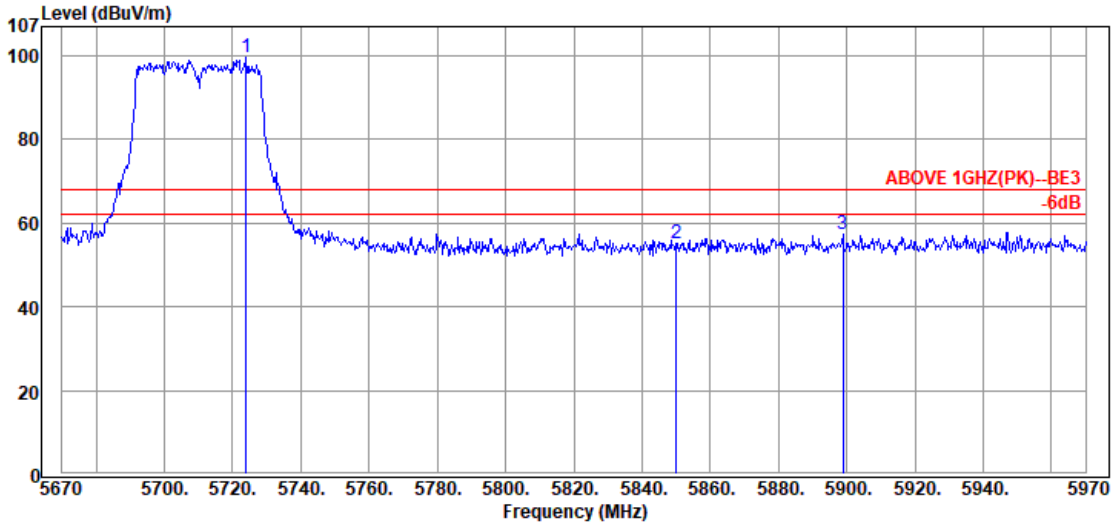
Mode	802.11n-HT40	UNII Band	II-2C
		Frequency	TX 5710MHz



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
@	5722.50	34.40	9.04	47.48	90.92	---	---	Peak
	5850.00	34.40	9.11	11.87	55.38	68.20	12.82	Peak
	5910.00	34.56	9.14	14.97	58.67	68.20	9.53	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
@	5724.00	34.40	9.04	56.05	99.49	---	---	Peak
	5850.00	34.40	9.11	11.54	55.05	68.20	13.15	Peak
	5898.90	34.50	9.13	13.87	57.50	68.20	10.70	Peak

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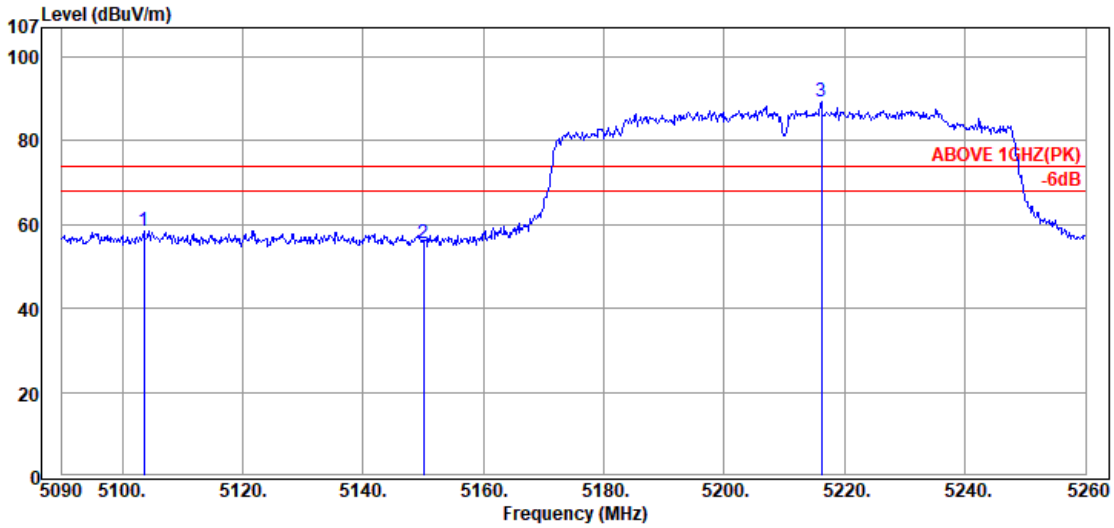
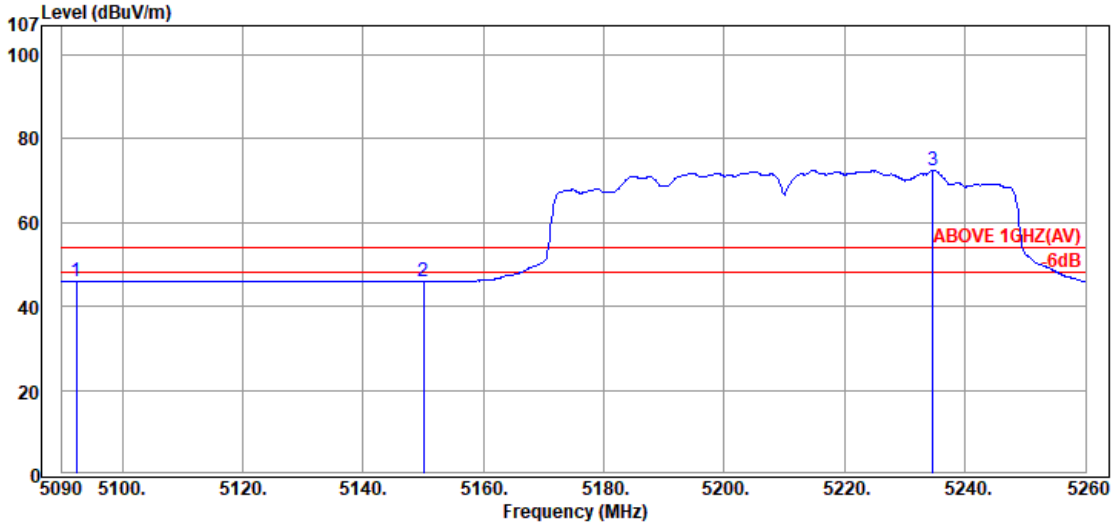
Mode	802.11ac-VHT80	UNII Band	I
		Frequency	TX 5210MHz



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
	5103.60	33.81	8.70	15.99	58.50	74.00	15.50	Peak
	5150.01	33.90	8.73	12.89	55.52	74.00	18.48	Peak
@	5216.14	34.20	8.77	46.36	89.33	---	---	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5092.38	33.80	8.69	3.65	46.14	54.00	7.86	Average
	5150.01	33.90	8.73	3.24	45.87	54.00	8.13	Average
@	5234.67	34.31	8.78	29.38	72.47	---	---	Average

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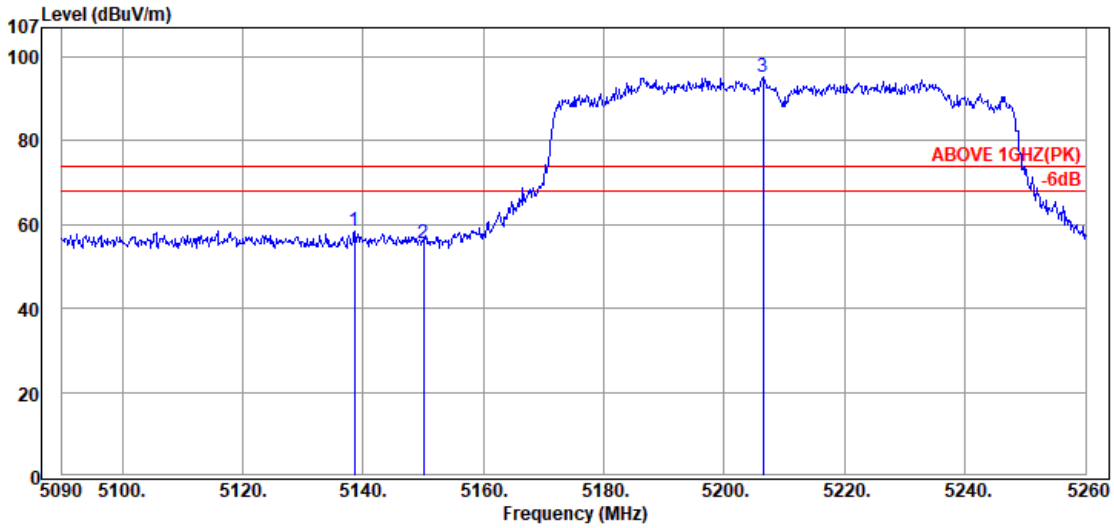
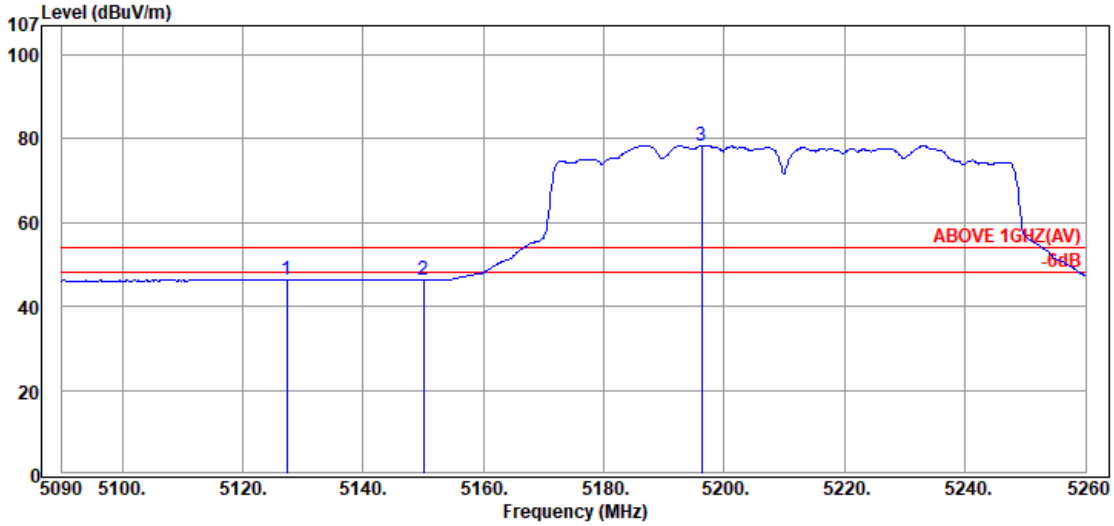
Mode	802.11ac-VHT80	UNII Band	I
		Frequency	TX 5210MHz



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
	5138.62	33.88	8.72	15.90	58.50	74.00	15.50	Peak
	5150.01	33.90	8.73	12.87	55.50	74.00	18.50	Peak
@	5206.45	34.14	8.76	52.25	95.15	---	---	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
	5127.40	33.85	8.71	3.88	46.44	54.00	7.56	Average
	5150.01	33.90	8.73	3.61	46.24	54.00	7.76	Average
@	5196.25	34.08	8.75	35.60	78.43	---	---	Average

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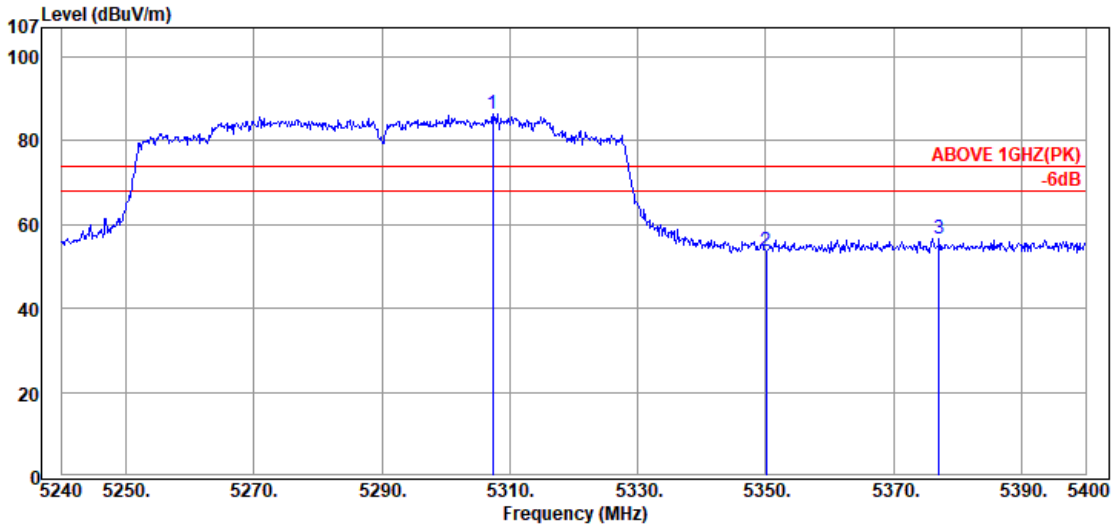
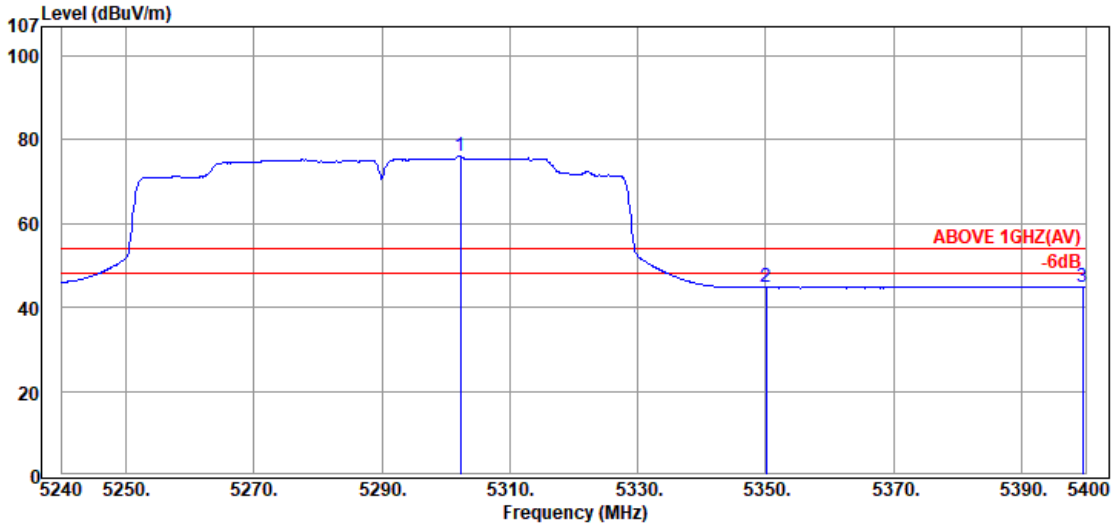
Mode	802.11ac-VHT80	UNII Band	II-2A
		Frequency	TX 5290MHz



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
@	5307.36	34.50	8.82	43.06	86.38	---	---	Peak
	5350.08	34.50	8.84	10.39	53.73	74.00	20.27	Peak
	5377.12	34.50	8.86	13.41	56.77	74.00	17.23	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
@	5302.24	34.50	8.81	32.93	76.24	---	---	Average
	5350.08	34.50	8.84	1.38	44.72	54.00	9.28	Average
	5399.52	34.50	8.87	1.54	44.91	54.00	9.09	Average

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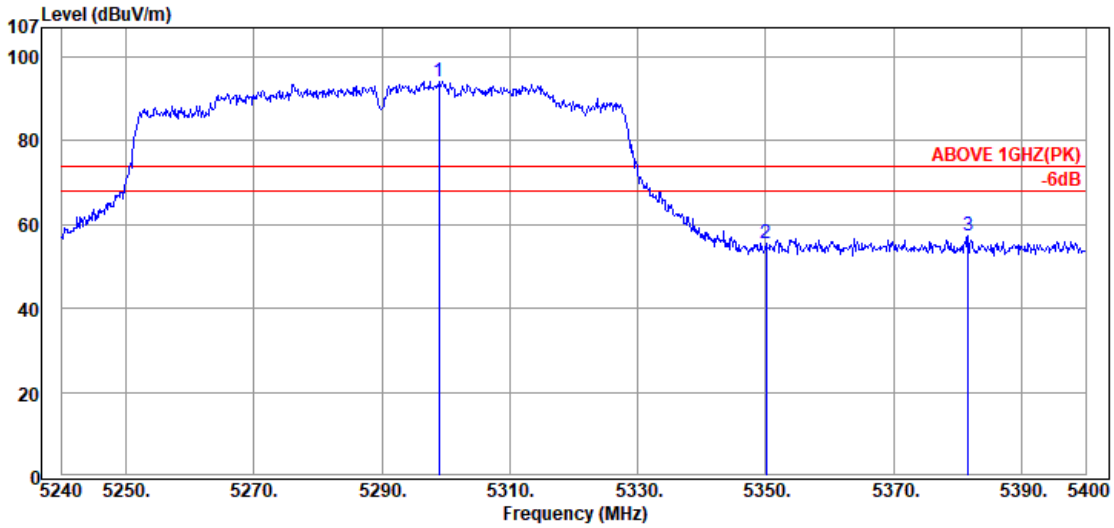
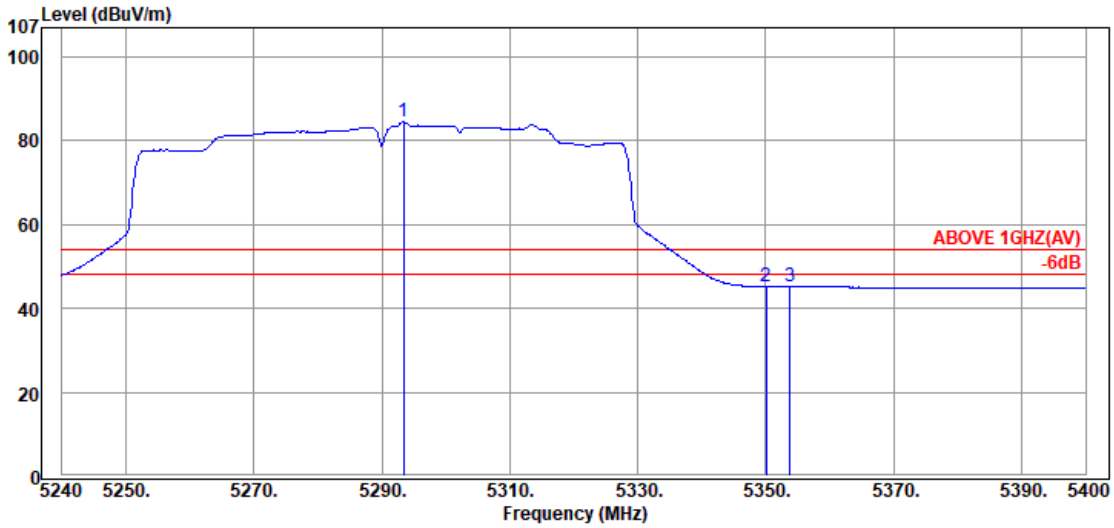
Mode	802.11ac-VHT80	UNII Band	II-2A
		Frequency	TX 5290MHz



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
@	5298.88	34.50	8.81	50.92	94.23	---	---	Peak
	5350.08	34.50	8.84	12.32	55.66	74.00	18.34	Peak
	5381.60	34.50	8.86	13.94	57.30	74.00	16.70	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
@	5293.44	34.49	8.81	41.34	84.64	---	---	Average
	5350.08	34.50	8.84	1.84	45.18	54.00	8.82	Average
	5353.76	34.50	8.84	1.87	45.21	54.00	8.79	Average

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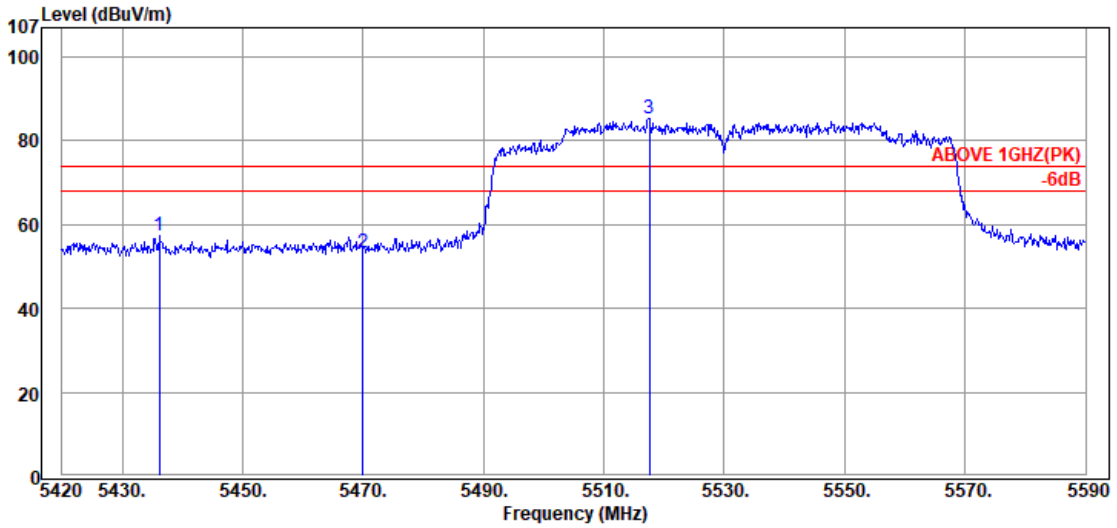
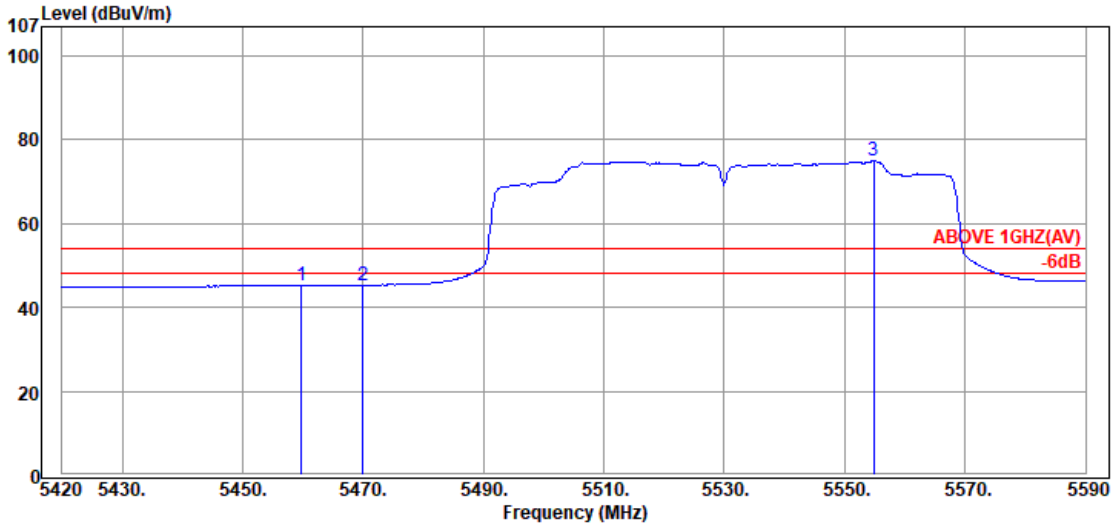
Mode	802.11ac-VHT80	UNII Band	II-2C
		Frequency	TX 5530MHz



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
	5436.15	34.50	8.89	14.03	57.42	74.00	16.58	Peak
	5469.98	34.50	8.91	9.88	53.29	74.00	20.71	Peak
@	5517.58	34.54	8.93	41.78	85.25	---	---	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
	5459.78	34.50	8.90	1.84	45.24	54.00	8.76	Average
	5469.98	34.50	8.91	1.93	45.34	54.00	8.66	Average
@	5554.81	34.61	8.95	31.36	74.92	---	---	Average

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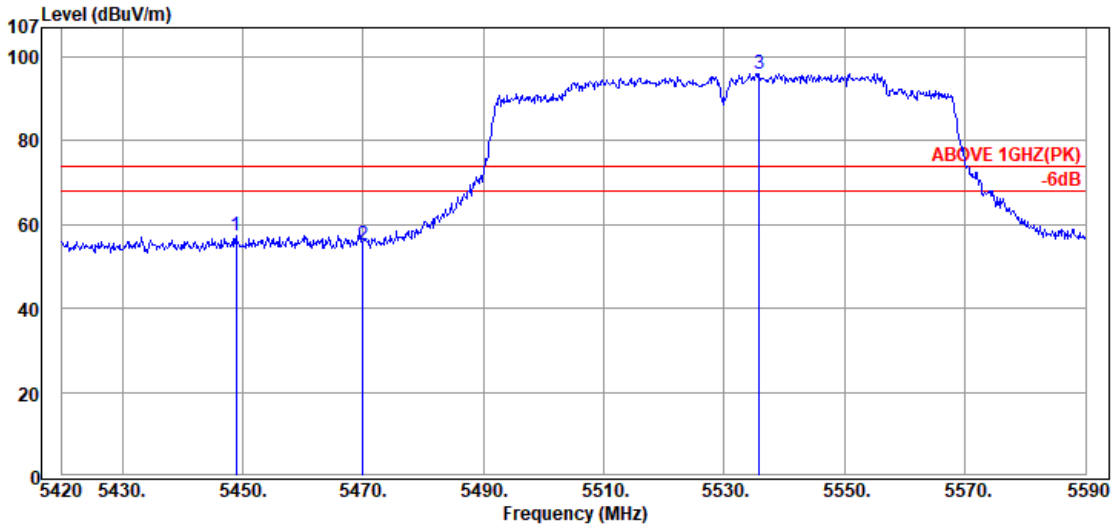
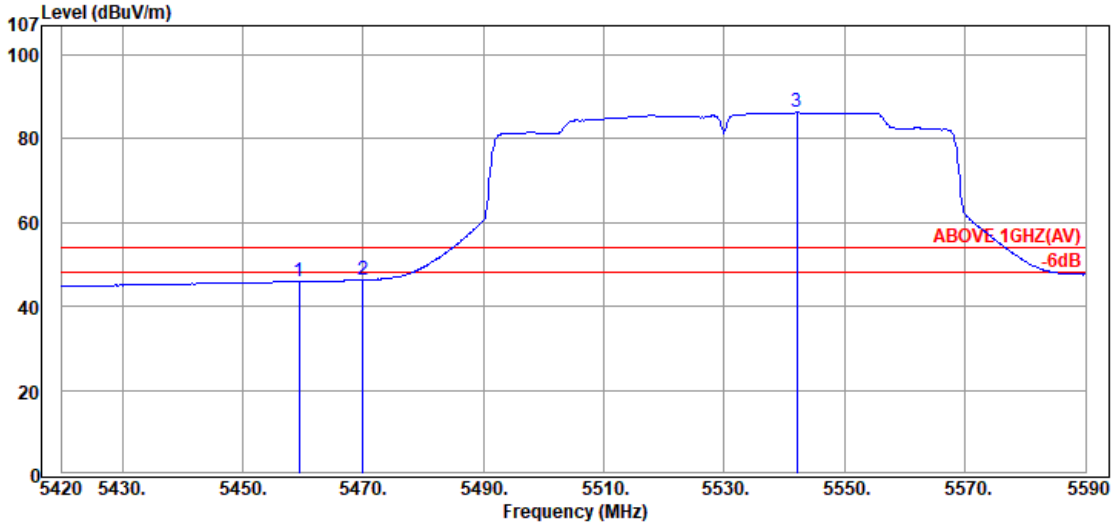
Mode	802.11ac-VHT80	UNII Band	II-2C
		Frequency	TX 5530MHz



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
	5448.90	34.50	8.89	14.11	57.50	74.00	16.50	Peak
	5469.98	34.50	8.91	11.66	55.07	74.00	18.93	Peak
@	5535.77	34.57	8.94	52.61	96.12	---	---	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
	5459.44	34.50	8.90	2.49	45.89	54.00	8.11	Average
	5469.98	34.50	8.91	2.90	46.31	54.00	7.69	Average
@	5542.06	34.58	8.94	42.80	86.32	---	---	Average

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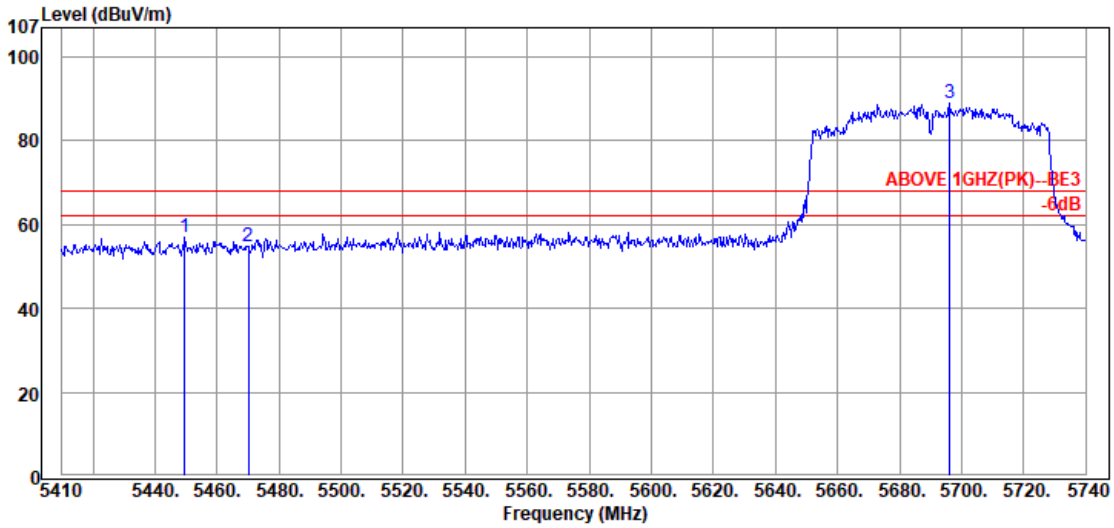
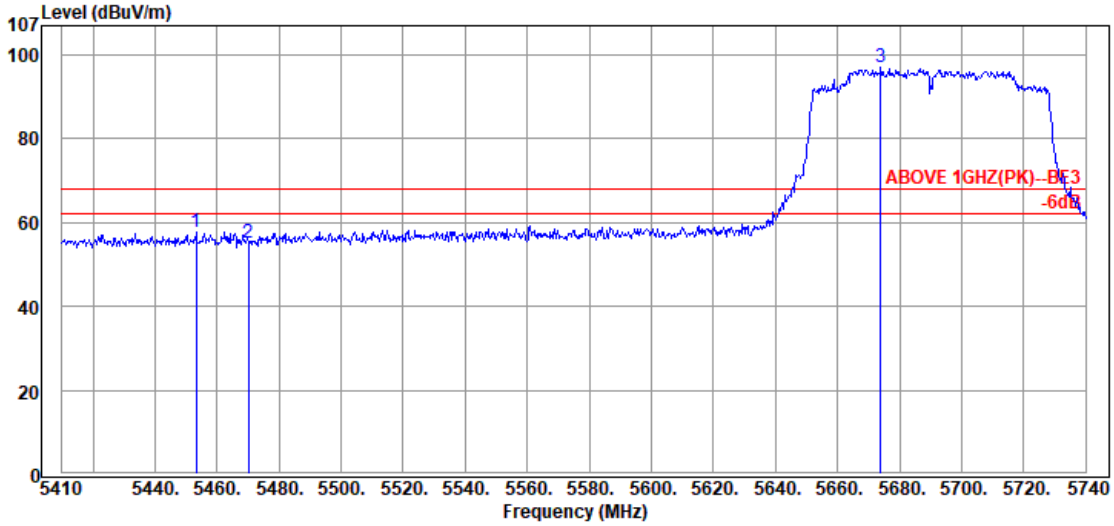
Mode	802.11ac-VHT80	UNII Band	II-2C
		Frequency	TX 5690MHz



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
	5449.60	34.50	8.90	13.52	56.92	68.20	11.28	Peak
	5470.06	34.50	8.91	11.22	54.63	68.20	13.57	Peak
@	5696.11	34.42	9.03	45.44	88.89	---	---	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
	5453.23	34.50	8.90	14.26	57.66	68.20	10.54	Peak
	5470.06	34.50	8.91	11.70	55.11	68.20	13.09	Peak
@	5674.00	34.50	9.01	53.56	97.07	---	---	Peak

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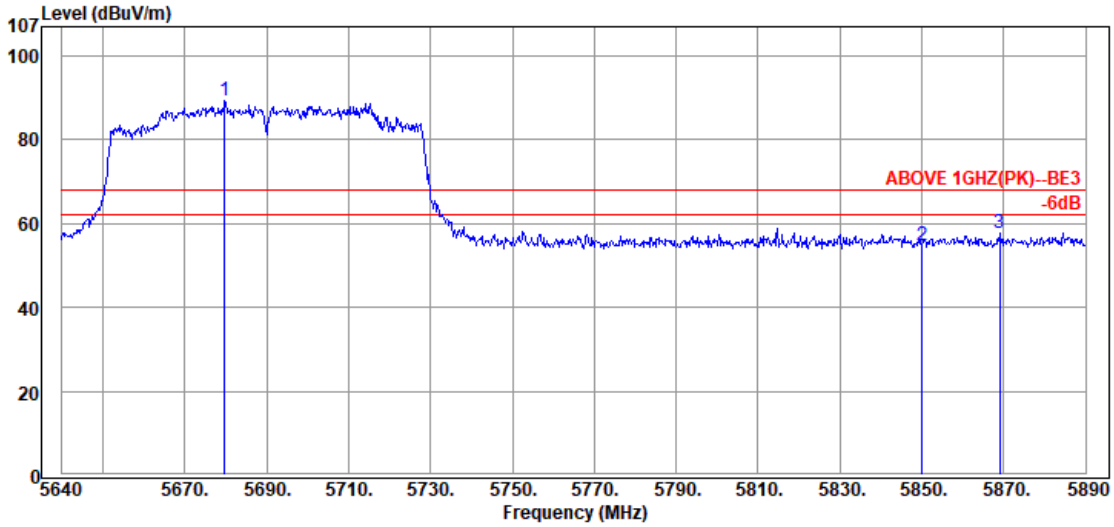
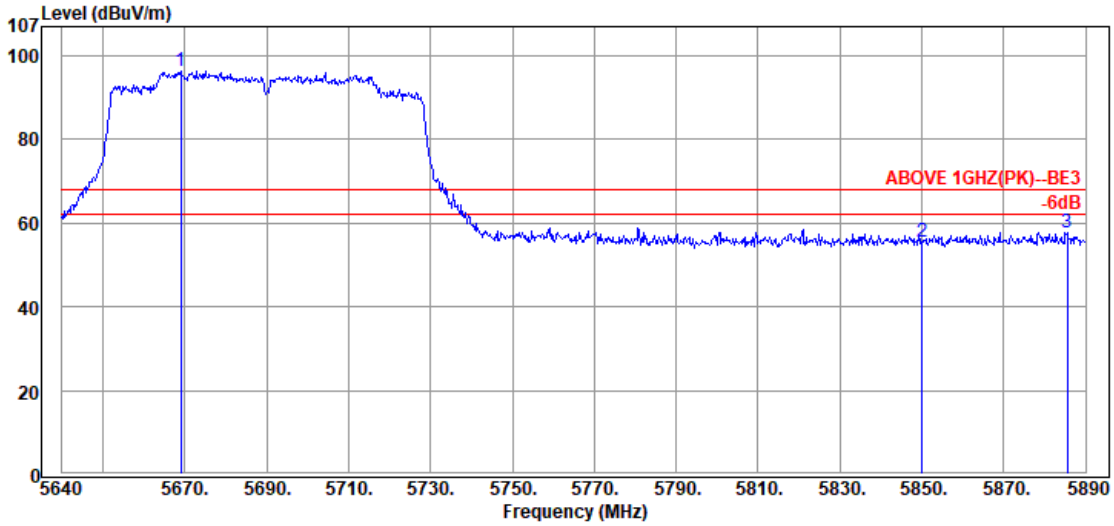
Mode	802.11ac-VHT80	UNII Band	II-2C
		Frequency	TX 5690MHz



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
@	5679.75	34.48	9.02	45.67	89.17	---	---	Peak
	5850.00	34.40	9.11	11.44	54.95	68.20	13.25	Peak
	5869.00	34.44	9.11	14.27	57.82	68.20	10.38	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
@	5669.00	34.52	9.01	52.82	96.35	---	---	Peak
	5850.00	34.40	9.11	12.08	55.59	68.20	12.61	Peak
	5885.50	34.47	9.12	14.21	57.80	68.20	10.40	Peak

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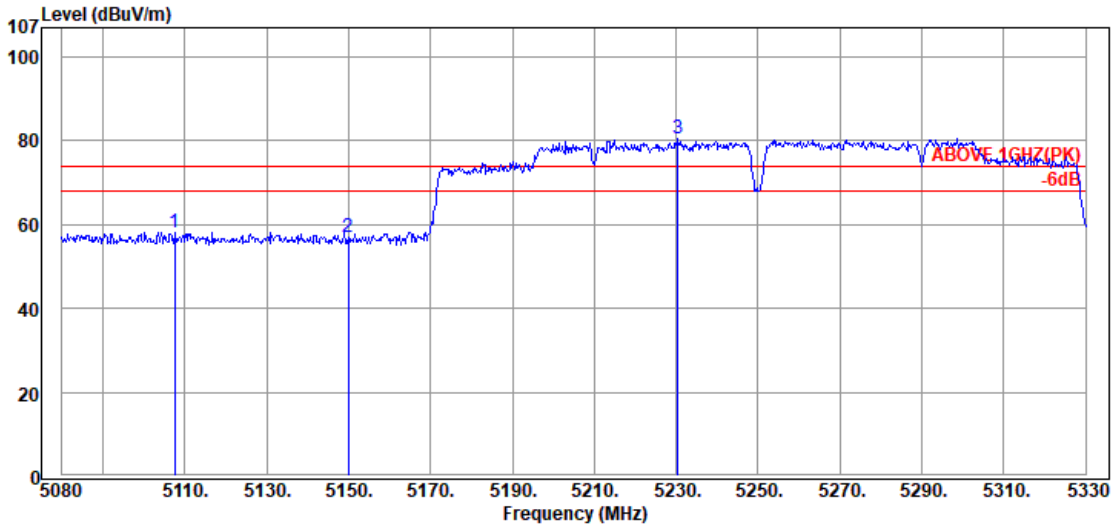
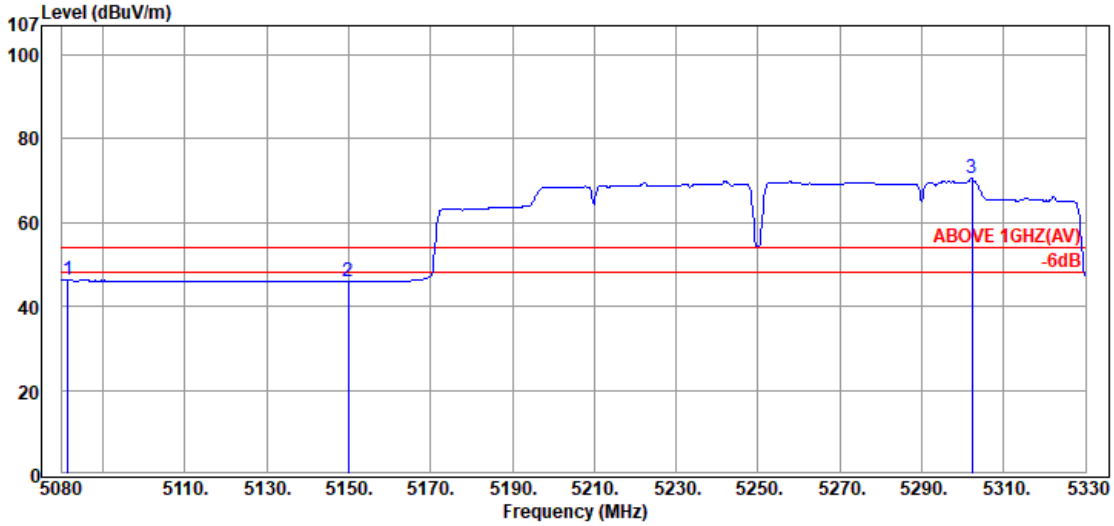
Mode	802.11ac-VH160	UNII Band	I & II-2A
		Frequency	TX 5250MHz



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
	5107.50	33.81	8.70	15.70	58.21	74.00	15.79	Peak
	5150.00	33.90	8.73	14.20	56.83	74.00	17.17	Peak
@	5230.50	34.28	8.77	37.52	80.57	---	---	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
	5081.50	33.80	8.69	3.72	46.21	54.00	7.79	Average
	5150.00	33.90	8.73	3.19	45.82	54.00	8.18	Average
@	5302.25	34.50	8.81	27.20	70.51	---	---	Average

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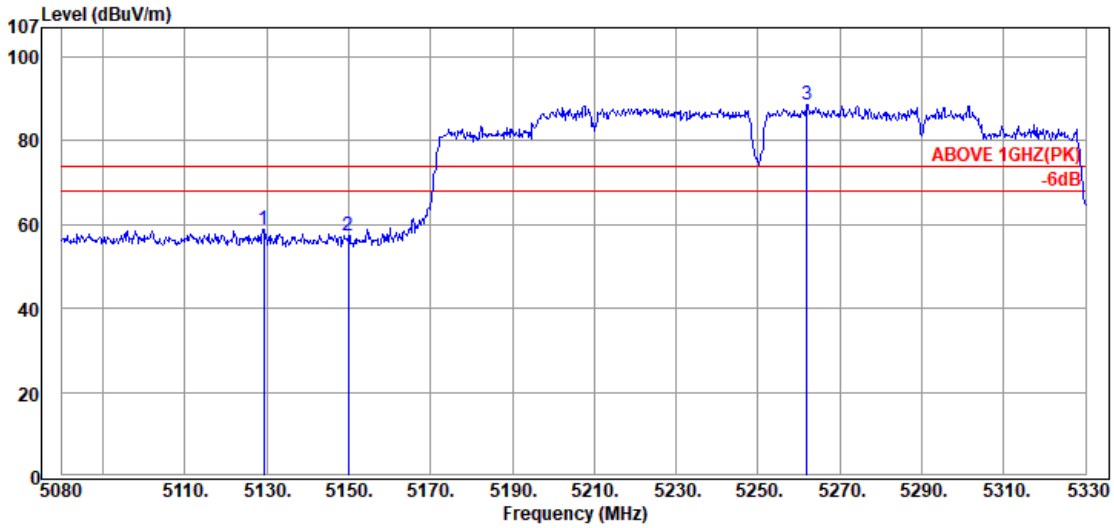
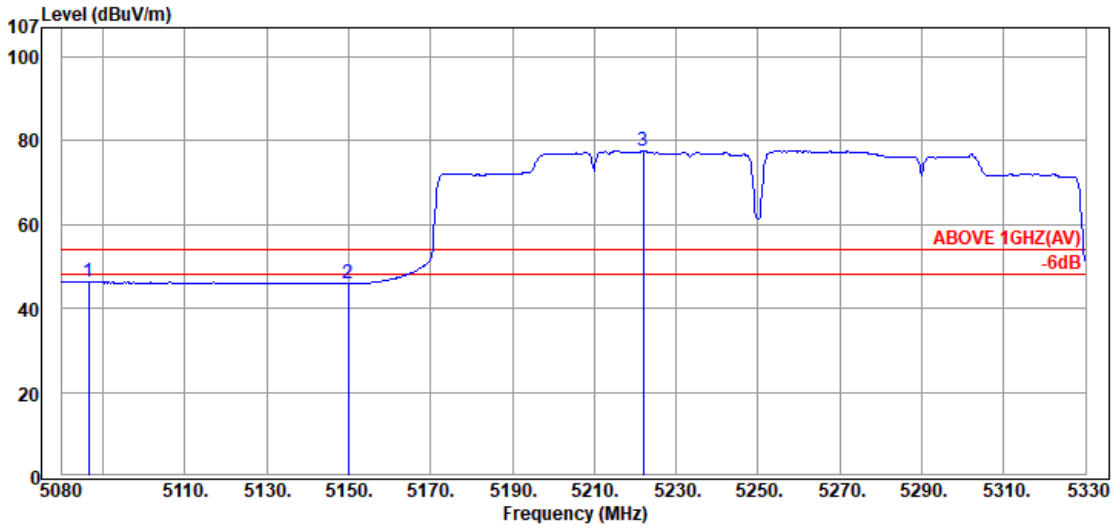
Mode	802.11ac-VH160	UNII Band	I & II-2A
		Frequency	TX 5250MHz



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
	5129.25	33.86	8.72	16.37	58.95	74.00	15.05	Peak
	5150.00	33.90	8.73	14.66	57.29	74.00	16.71	Peak
@	5262.00	34.42	8.79	45.51	88.72	---	---	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
	5086.50	33.80	8.69	3.76	46.25	54.00	7.75	Average
	5150.00	33.90	8.73	3.32	45.95	54.00	8.05	Average
@	5222.00	34.23	8.77	34.71	77.71	---	---	Average

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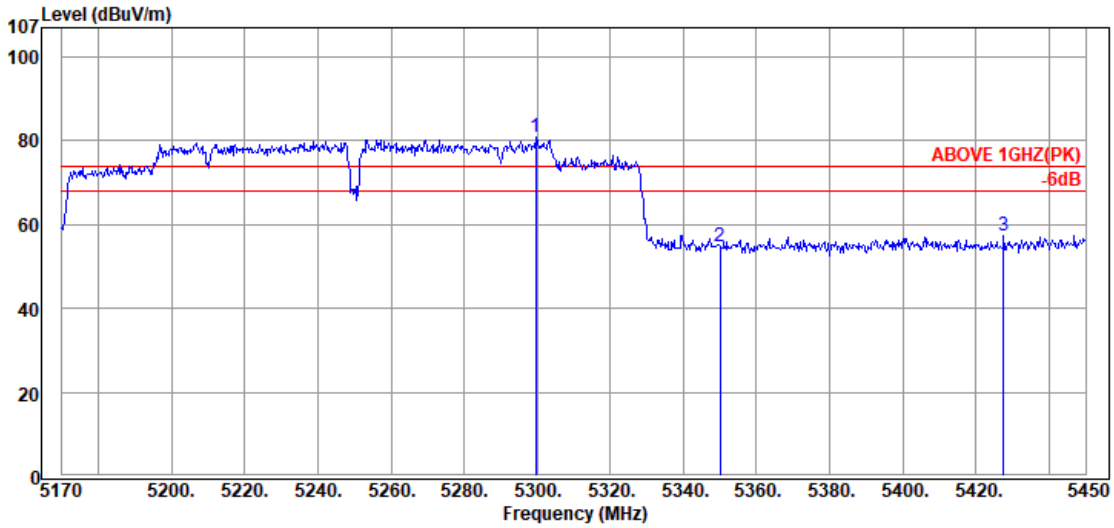
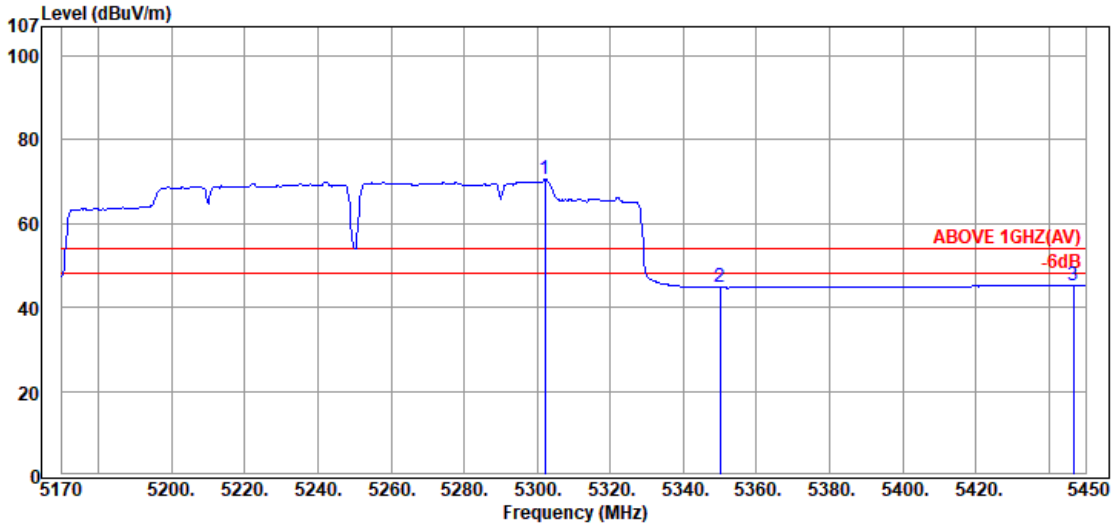
Mode	802.11ac-VH160	UNII Band	I & II-2A
		Frequency	TX 5250MHz



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
@	5299.64	34.50	8.81	37.48	80.79	---	---	Peak
	5350.04	34.50	8.84	11.36	54.70	74.00	19.30	Peak
	5427.60	34.50	8.88	13.99	57.37	74.00	16.63	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
@	5302.16	34.50	8.81	27.39	70.70	---	---	Average
	5350.04	34.50	8.84	1.34	44.68	54.00	9.32	Average
	5446.64	34.50	8.89	1.99	45.38	54.00	8.62	Average

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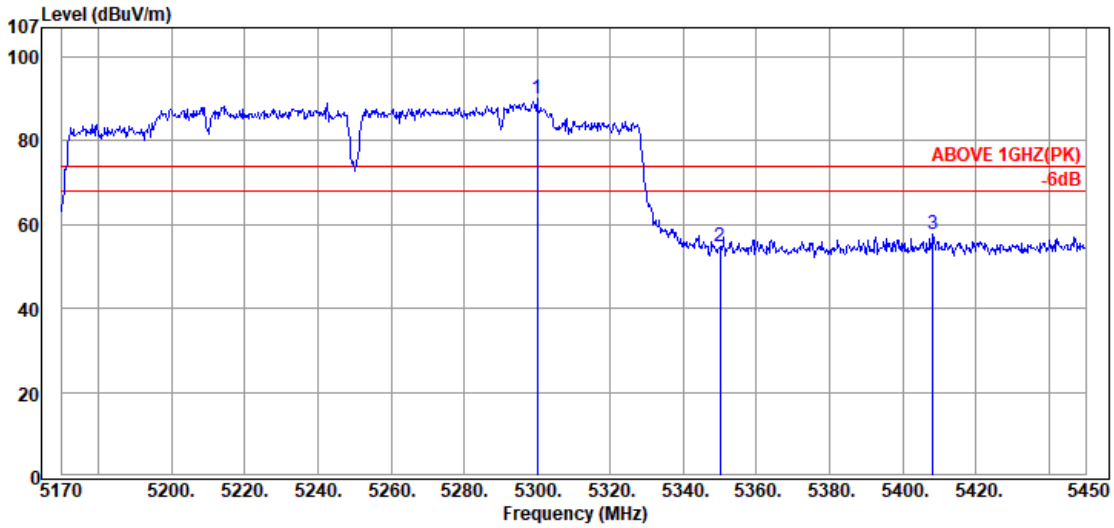
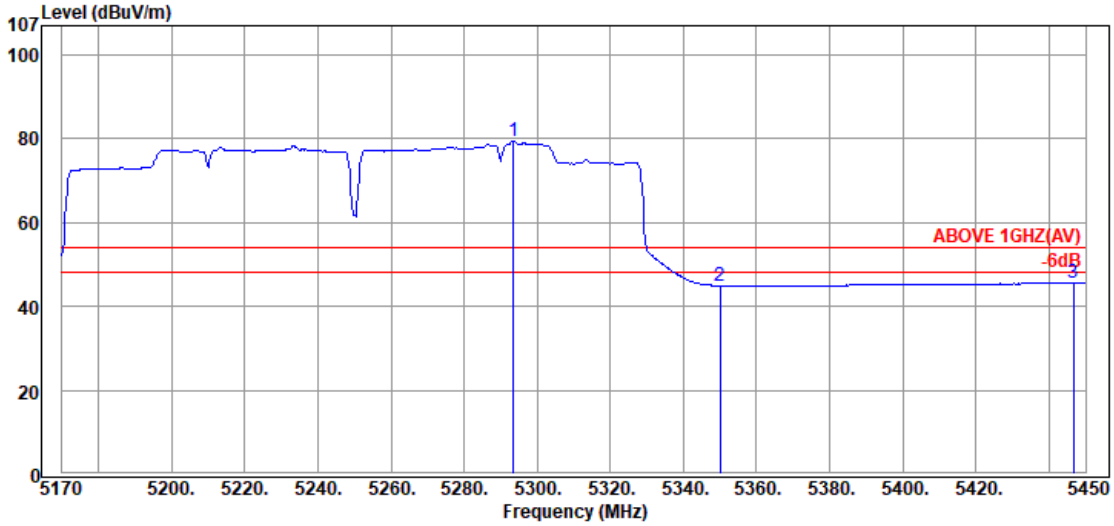
Mode	802.11ac-VH160	UNII Band	I & II-2A
		Frequency	TX 5250MHz



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
@	5299.92	34.50	8.81	46.67	89.98	---	---	Peak
	5350.04	34.50	8.84	11.41	54.75	74.00	19.25	Peak
	5408.28	34.50	8.87	14.41	57.78	74.00	16.22	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
@	5293.48	34.49	8.81	36.22	79.52	---	---	Average
	5350.04	34.50	8.84	1.59	44.93	54.00	9.07	Average
	5446.64	34.50	8.89	2.19	45.58	54.00	8.42	Average

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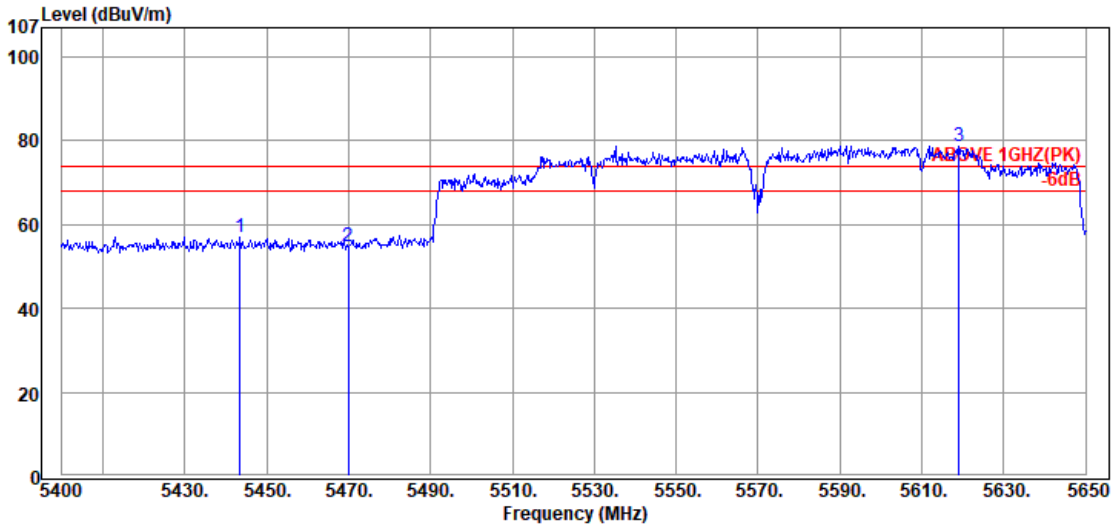
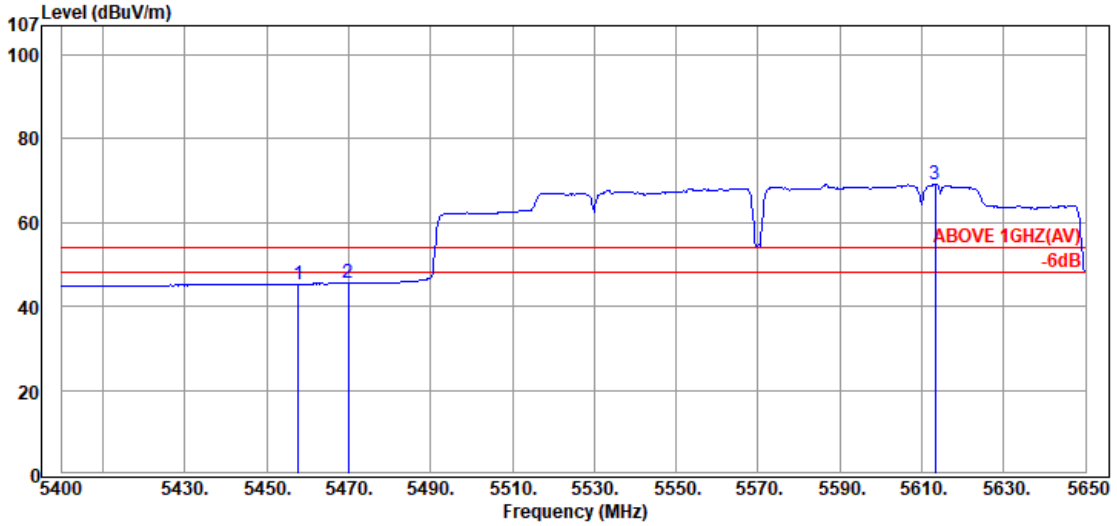
Mode	802.11ac-VHT160	UNII Band	II-2C
		Frequency	TX 5570MHz



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
	5443.50	34.50	8.89	13.73	57.12	74.00	16.88	Peak
	5470.00	34.50	8.91	11.38	54.79	74.00	19.21	Peak
@	5619.00	34.66	8.99	35.21	78.86	---	---	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
	5457.75	34.50	8.90	1.98	45.38	54.00	8.62	Average
	5470.00	34.50	8.91	2.05	45.46	54.00	8.54	Average
@	5613.25	34.67	8.98	25.64	69.29	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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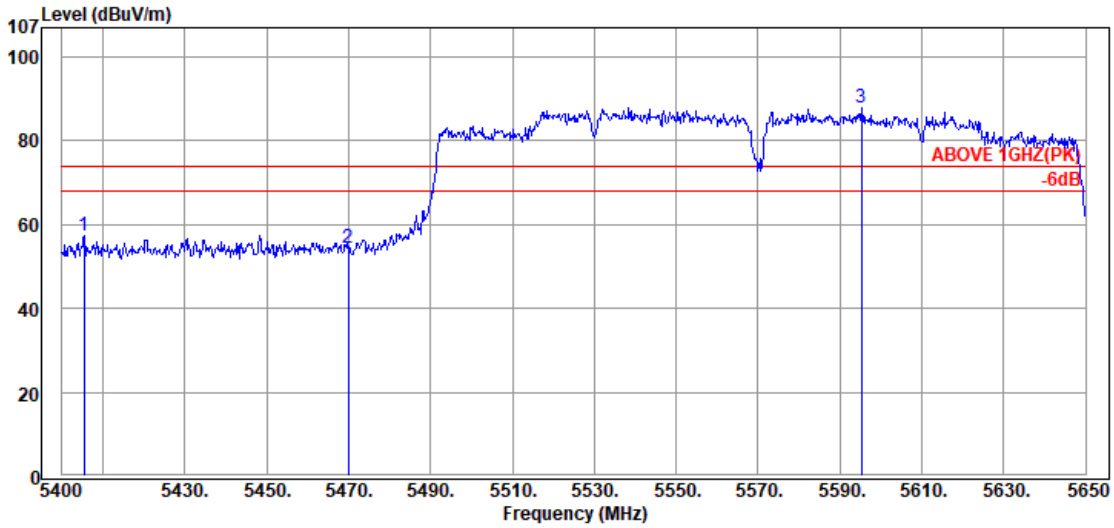
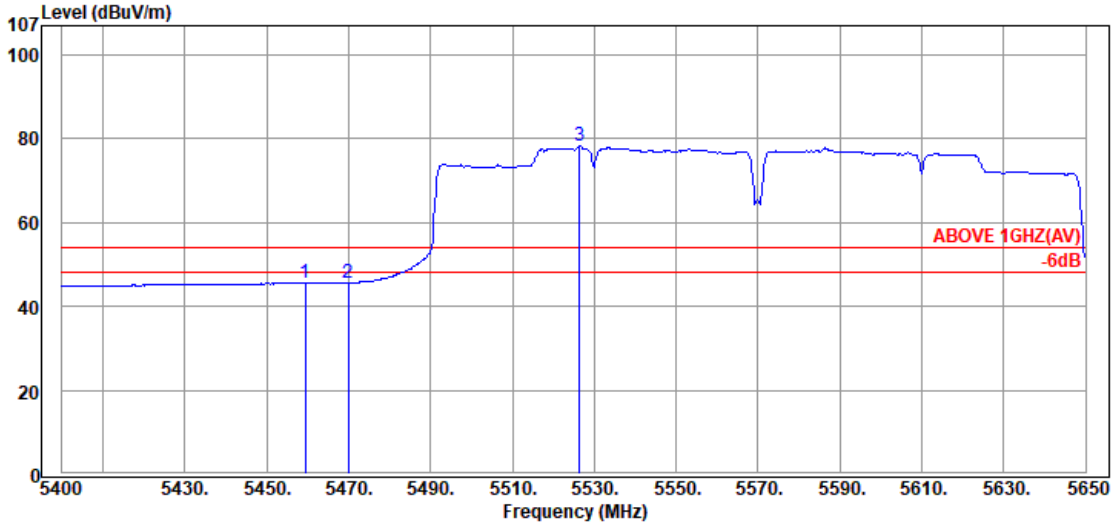
Mode	802.11ac-VHT160	UNII Band	II-2C
		Frequency	TX 5570MHz



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
	5405.50	34.50	8.87	13.88	57.25	74.00	16.75	Peak
	5470.00	34.50	8.91	11.14	54.55	74.00	19.45	Peak
@	5595.25	34.69	8.97	44.14	87.80	---	---	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	5459.50	34.50	8.90	2.11	45.51	54.00	8.49	Average
	5470.00	34.50	8.91	2.26	45.67	54.00	8.33	Average
@	5526.50	34.55	8.94	34.83	78.32	---	---	Average

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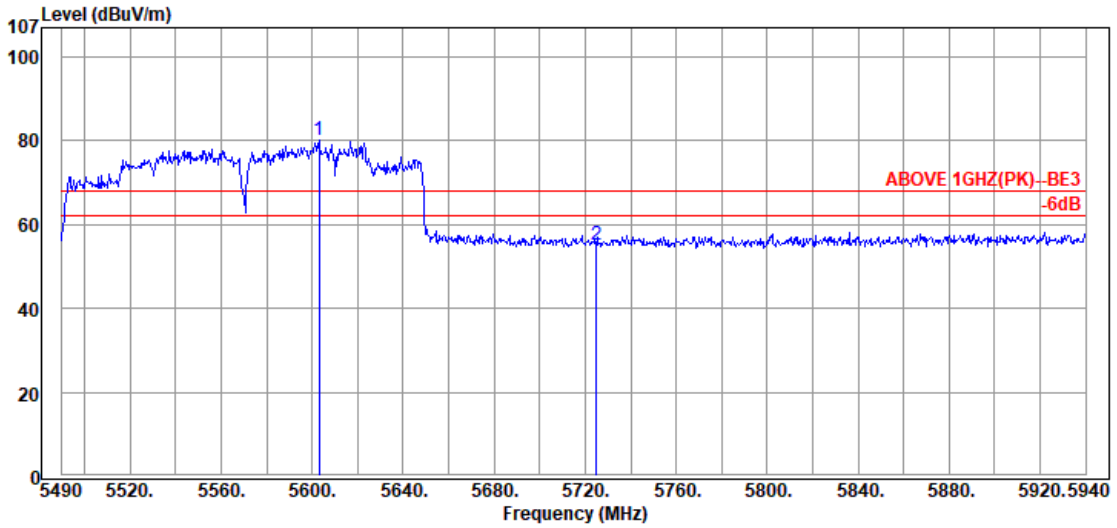
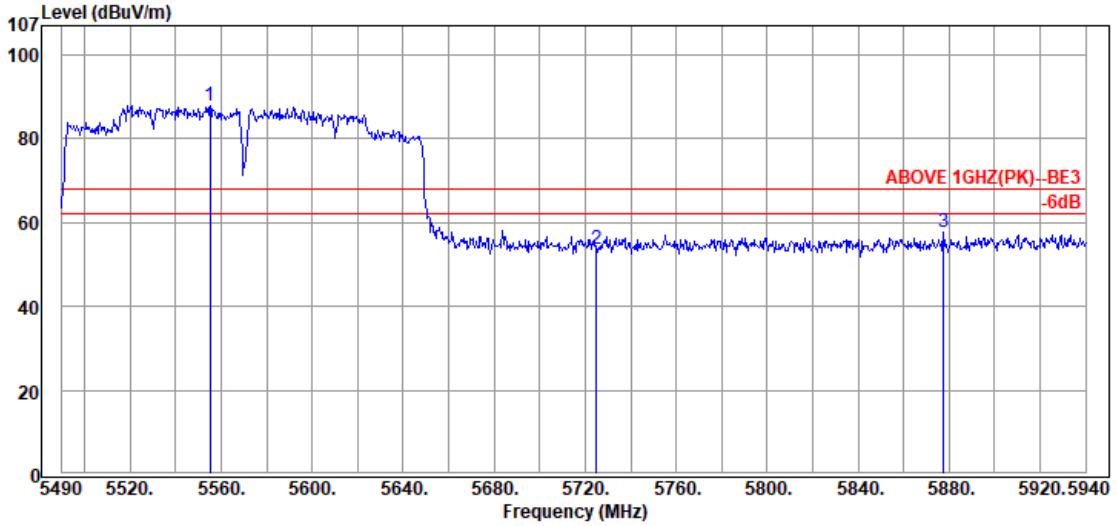
Mode	802.11ac-VH160	UNII Band	II-2C
		Frequency	TX 5570MHz



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
@	5602.95	34.69	8.98	36.46	80.13	---	---	Peak
	5724.90	34.40	9.04	11.89	55.33	68.20	12.87	Peak
	5940.00	34.74	9.15	14.21	58.10	68.20	10.10	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
@	5555.25	34.61	8.95	44.49	88.05	---	---	Peak
	5724.90	34.40	9.04	10.31	53.75	68.20	14.45	Peak
	5877.45	34.45	9.12	14.27	57.84	68.20	10.36	Peak

Remark: The "@" means fundamental frequency, it is ignored in this section.

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