

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 : 17U70N
Brand : LG
FCC ID : BEJNT-17U70N

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



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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APPENDIX A TEST DATA AND PLOTS

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TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : DIGITEK (CHONGQING) LIMITED
EUT Description
(1) Product : Notebook Computer
(2) Model : 17U70N
(3) Brand : LG
(4) Power Supply: DC 19V

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.

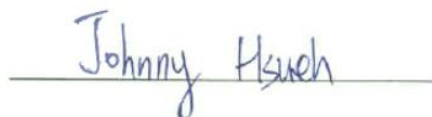
Date of Report: 2020. 03. 20

Reviewed by:



(Tina Huang/Section Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2020. 03. 20	Original Report	EM-F200118

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205/15.209	Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)(5)/15.407(e)	26dB/6dB Bandwidth	PASS
15.407(a)	Maximum Output Power	PASS
15.407(b)	Conducted Band Edges	N/A
15.407(a)	Power Spectral Density	PASS
15.407	Frequency Stability	PASS
15.203	Antenna Requirement	Compliance
N/A is an abbreviation for Not Applicable Note: The uncertainties value is not used in determining the result.		

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	DIGITEK (CHONGQING) LIMITED B01,Section C, Airport Function Zone, Lianglu Cuntan Free Trade Port Area, Yubei District, Chongqing City, China.
Product	Notebook Computer
Model	17U70N
Brand	LG

3.2. Description of EUT

Test Model	17U70N																												
Serial Number	N/A																												
Power Rating	DC 19V																												
Software Version	N/A																												
RF Features	WLAN: 802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.0)																												
Transmit Type	<table border="1"> <thead> <tr> <th colspan="2">2.4 GHz</th></tr> </thead> <tbody> <tr> <td>802.11b</td><td>1T1R</td></tr> <tr> <td>802.11g</td><td>1T1R</td></tr> <tr> <td>802.11n-HT20</td><td>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> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">UNII Bands</th></tr> </thead> <tbody> <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> </tbody> </table> The MIMO is uncorrelated and supported SDM mode only.	2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	802.11ax-HE20	2T2R	802.11ax-HE40	2T2R	BT/BLE	1T1R	UNII Bands		802.11a	1T1R	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R	802.11ac-VHT80/802.11ax-HE80	2T2R	802.11ac-VHT160/802.11ax-HE160	2R2T
2.4 GHz																													
802.11b	1T1R																												
802.11g	1T1R																												
802.11n-HT20	2T2R																												
802.11n-HT40	2T2R																												
802.11ax-HE20	2T2R																												
802.11ax-HE40	2T2R																												
BT/BLE	1T1R																												
UNII Bands																													
802.11a	1T1R																												
802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R																												
802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R																												
802.11ac-VHT80/802.11ax-HE80	2T2R																												
802.11ac-VHT160/802.11ax-HE160	2R2T																												
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☐ Indoor Access Point ☒ Mobile and Portable client device																												
Sample Status	Mass production																												
Date of Receipt	2020. 03. 04																												
Date of Test	2020. 03. 05 ~ 20																												
Interface Ports of EUT	• One Micro SD Card Slot • One Earphone Port • Two USB 3.0 Ports • One USB 2.0 Port • One USB Type C Port • One HDMI Port • One LAN Port • One DC Input Port																												
Accessories Supplied	• AC Adapter																												

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1.	SJ17W Main Antenna (Main)	Hua Cheng (HTK)	PIFA	2400~2500	-2.63
				5150~5850	0.85
	SJ17W Aux Antenna (AUX)	Hua Cheng (HTK)	PIFA	2400~2500	-1.40
				5150~5850	-1.28
2	SJ17W_WLAN MAN ANT_HF Antenna (Main)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-3.05
				5150~5850	0.36
	SJ17W_WLAN AUX ANT_HF Antenna (AUX)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-2.85
				5150~5850	-1.47

3.4. EUT Specifications Assessed in Current Report

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

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 144.4
802.11n-HT40		Up to 300
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					
Band	Channel Number	Frequency (MHz)	Band	Channel Number	Frequency (MHz)
NII-I	36	5180	NII-2C	120	5600
	40	5200		124	5620
	44	5220		128	5640
	48	5240		132	5660
NII-2A	52	5260		136	5680
	56	5280		140	5700
	60	5300		144	5720
	64	5320	NII-III	149	5745
NII-2C	100	5500		153	5765
	104	5520		157	5785
	108	5540		161	5805
	112	5560		165	5825
	116	5580			

Channel List					
802.11n-HT40/802.11ac-VHT40/802.11ax-HE40					
Band	Channel Number	Frequency (MHz)	Band	Channel Number	Frequency (MHz)
NII-I	38	5190	NII-2C	118	5590
	46	5230		126	5630
NII-2A	54	5270		134	5670
	62	5310		142	5710
NII-2C	102	5510	NII-III	151	5755
	110	5550		159	5795

Channel List					
802.11ac-VHT80/802.11ax-HE80					
Band	Channel Number	Frequency (MHz)	Band	Channel Number	Frequency (MHz)
NII-I	42	5210	NII-2C	138	5690
NII-2A	58	5290	NII-III	155	5775
NII-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)
NII-I	50	5250	NII-2C	114	5570
NII-2A					

Note Test modes are presented at section 3.7.

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	SJ17C MB	---
SUB Board	LG	SJ17C IO BD	---
CPU (Socket:FCBGA1528)	Intel	i3-10110U	2.1GHz, up to 4.1GHz
		i5-10210U	1.6GHz, up to 4.2GHz
		i7-10510U	1.8GHz, up to 4.9GHz
GPU	NVIDIA	N18P-G0-MP-A1	--
17" LCD Panel	LG Display	LP170WQ1(SP)(A1)	Resolution: 2560 x 1600, 60Hz WQXGA IPS (Normal Non touch)
Storage (SSD) (Max. 2 pcs)	Samsung	MZVLB256HAHQ-00000	NVMe, 256GB
		MZVLB256HBHQ-00000	NVMe, 256GB
		MZVLB512HBHQ-00000	NVMe, 512GB
	WD	SDASN8Y-256G-1009	SATA, 256GB
		SDASN8Y-512G-1009	SATA, 512GB
Memory (RAM) (on Board)	SK hynix	H5GC8H24AJR-R2C	GDDR5 256Mb*32
	Micro	MT51J256M32HF	GDDR5 256Mb*32
Memory (RAM) (on card)	Samsung	HMA81GS6CJR8N-VKN0	8GB DDR4 SODIMM
		HMA851S6CJR6N-VKN0	4GB DDR4 SODIMM
	SK hynix	M471A1K43CB1-CTD	8GB DDR4 SODIMM (on Card)
		M471A5244CB0-CTD	4GB DDR4 SODIMM
Battery Pack	LG	LBS1224E	72Wh, DC7.7V, 9450mAh
WLAN Combo Card	Intel	AX201D2W	WWLAN and BT, 2x2 CNVi 1216 FCC ID: PD9AX201D2 IC: 1000M-AX201D2
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.)	SJ17W_WLAN MAN ANT_HF Antenna	PIFA Type Main: Black, Aux: White
		SJ17W_WLAN AUX ANT_HF Antenna	
	Hua Cheng (HTK)	SJ17W Main Antenna	PIFA Type Main: Black, Aux: White
		SJ17W Aux Antenna	
Click Pad	ELAN	SB876A-26H0	--
	LITEON	SG-96010-00A	--

Item	Supplier	Model / Type	Character
Web Camera	Chicony	CKFIH3421005110LH	With two microphones
AC Adapter	Chicony	A15-120P1A	I/P: AC 100-240V, 50-60Hz, 2.0A, O/P: DC 19V, 6.32A, 120W
	Chicony	A12-065N2A	I/P: AC 100-240V, 50-60Hz, 1.7A, O/P: DC 19V, 3.42A, 65W
	DC Power Cord: Non-Shielded, Undetached, 1.8m, bonded a ferrite core AC Power Cord: Non-Shielded, Detached, 1m (3C)		

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:

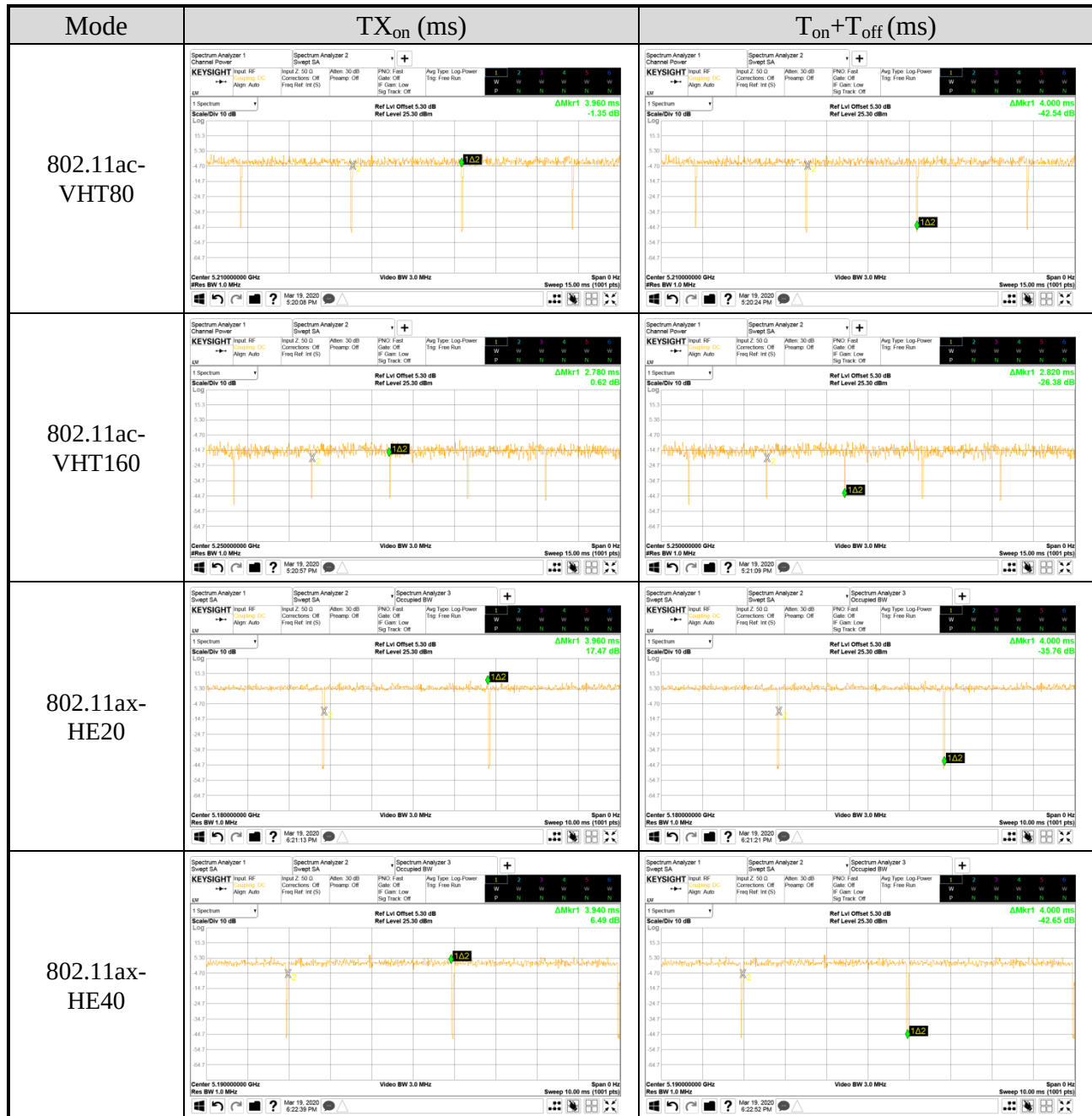
SKU		1	2
System	Microsoft, Win10 Home	V	V
Main Board	LG, SJ17C MB	V	V
SUB Board	LG, SJ17C IO BD	V	V
CPU	Intel, i7-10510U	V	
	Intel, i5-10210U		V
GPU	NVIDIA, N18P-G0-MP-A1	V	
17" LCD Panel	LG Display, LP170WQ1(SP)(A1)	V	V
Storage (SSD)	Samsung, MZVLB256HAHQ-00000, 256GB	V	V
	Samsung, MZVLB512HBJQ-00000, 512GB	V	
Memory (RAM) (on Board)	SK hynix, GDDR5 256Mb*32	V	
Memory (RAM) (on Card)	Samsung, 4GB		V
	Samsung, 8GB x2	V	
	SK hynix, 4GB		V
Battery Pack	LG, LBS1224E	V	V
WLAN Combo Card	Intel, AX201D2W	V	V
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.), Main & AUX		V
	Hua Cheng (HTK), Main & AUX	V	
Click Pad	ELAN, SB876A-26H0	V	V
Web Camera	Chicony, CKFIH3421005110LH	V	V
AC Adapter	Chicony, A15-120P1A	V	
	Chicony, A12-065N2A		V

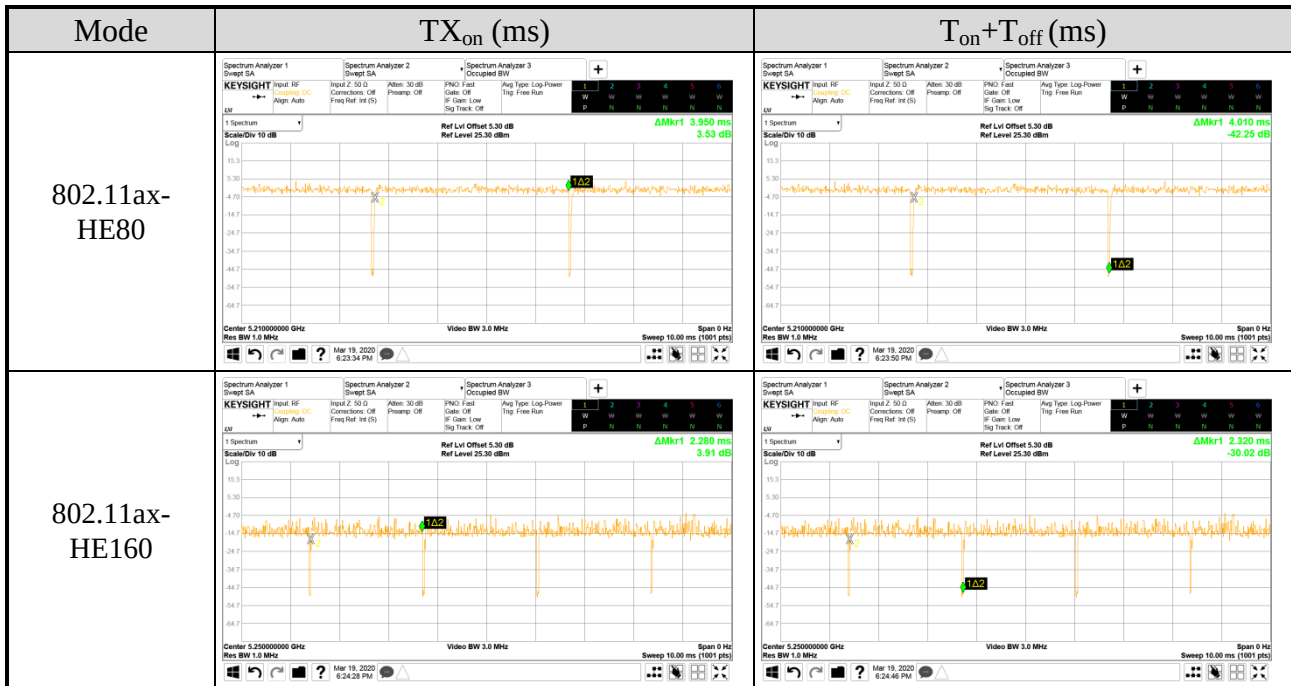
3.6. Test Configuration

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	3.975	0.252	0.989	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.







AC Conduction	
SKU #1	Normal operation (with A15-120P1A ADP)
SKU #2	Normal operation (with A12-065N2A ADP)

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1}	802.11a	6 Mbps	36/64/100/140/144/149/165
		802.11n-HT20	MCS8	36/64/100/140/144/149/165
		802.11n-HT40	MCS8	38/62/102/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/64/100/140/144/149/165
		802.11ax-HE40	HE0	38/62/102/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/138/155
		802.11ax-HE160	HE0	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	36/100/149
				52/37	
				106/53	
		802.11ax-HE40	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

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

Item		Mode	Data Rate	Test Channel
Conduct ed Test Case	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	
		802.11ax-HE40	HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE80	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE160	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
			HE0	996/67	50/114
			HE0	996/S67	50/114

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	
		802.11ax-HE40	HE0	26/8	64/140/165
				52/40	
				106/5	
		802.11ax-HE80	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
	Power spectral density	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
		802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE80	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.

Note 5: Both of the antennas are the same type, we performed testing of the highest antenna gain SKU #1 (with HTK Antenna).

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

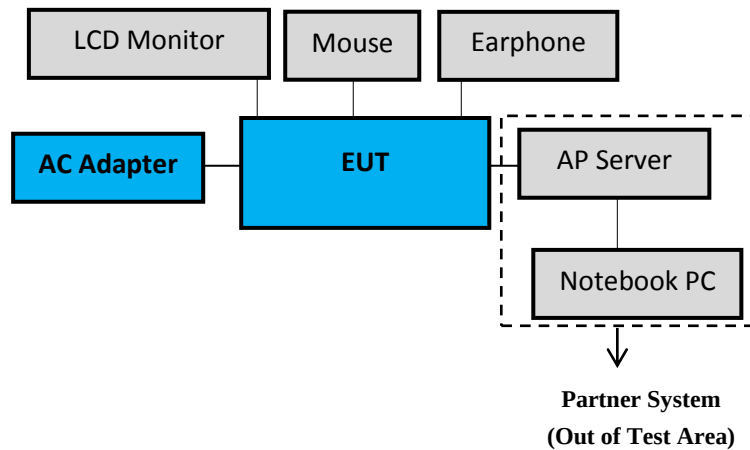
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	hp	N910U	N/A	FCC By DoC
3.	Earphone	APPLE	N/A	N/A	N/A
4.	Mobile Phone	APPLE	A2097	N/A	NCC ID: CCAI184G0070T9
5.	Memory Card	Apacer	N/A	N/A	FCC By DoC
Partner System					
6.	AP Server	D-Link	DIR-868L	R3WE1D7002319	FCC ID: KA2IR868LA1
					Contains FCC ID: RRK2012060056-1
7.	Notebook PC	Lenovo	TP00034A	895097	FCC By DoC

3.7.2. Cable Lists

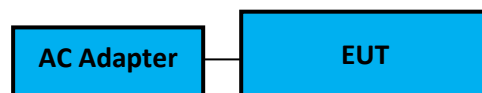
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.5m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8m
3.	Earphone Cable: Unshielded, Undetachable, 0.9m
4.	USB Type C to lightning Cable: Shielded, Detachable, 1.0m
5.	N/A
6.	AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m LAN cable: Unshielded, Detachable, 3.0m
7.	LAN cable: Unshielded, Detachable, 1.8m

3.8. Setup Configuration

3.8.1. EUT Configuration for Power Line & Radiated Emission Test Items



3.8.2. EUT Configuration for RF Conducted & Radiated Emission 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)].

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 (3) Fully Anechoic Chamber

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

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	2020. 02. 04	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	2020. 01. 05	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2019. 04. 20	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2019. 09. 20	1 Year
7.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-507	MY52220264	2019. 08. 07	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2020. 01.16	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2019. 06.12	1 Year
4.	Amplifier	HP	8447D	2944A06305	2020. 01. 16	1 Year
5.	Amplifier	HP	8449B	3008A02678	2020. 02. 27	1 Year
6.	Amplifier	Keysight	83051A	MY53010042	2019. 08. 08	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2019. 12. 26	2 Years
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2020. 01. 17	1 Year
9.	Horn Antenna	EMCO	3115	9609-4927	2019. 06. 24	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2019 .05. 14	1 Year
11.	5G Notch Filter	Microwave Circuits	N0452502	459775	2019. 05. 07	1 Year
12.	5G Notch Filter	Microwave Circuits	N0555983	459481	2019. 05. 07	1 Year
13.	5G Notch Filter	Microwave Circuits	N0257881	459776	2019. 08. 21	1 Year
14.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2020. 01. 31	1 Year
15.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 104	RF CABLE-01	2019. 09. 20	1 Year
16.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	No.1 18-40GHz Cable	2019. 09. 20	1 Year
17.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2019. 04. 20	1 Year
18.	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	2020. 01. 10	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

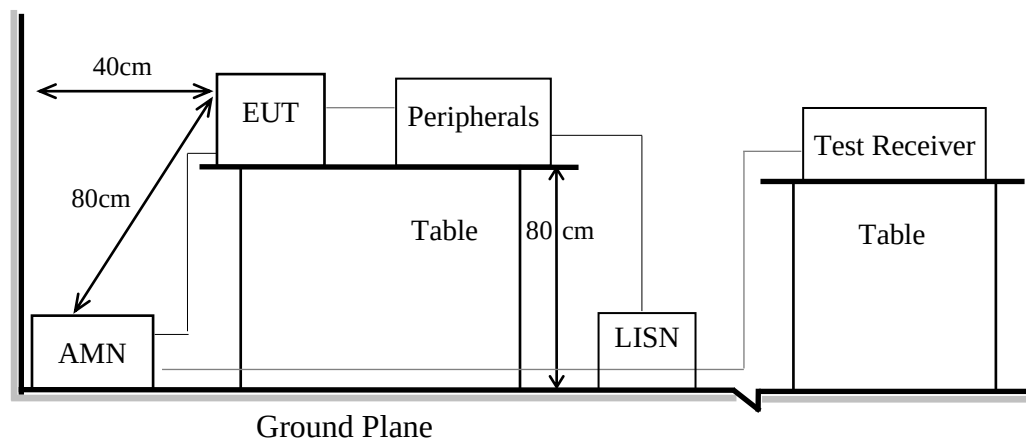
5. CONDUCTED EMISSION

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

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

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

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

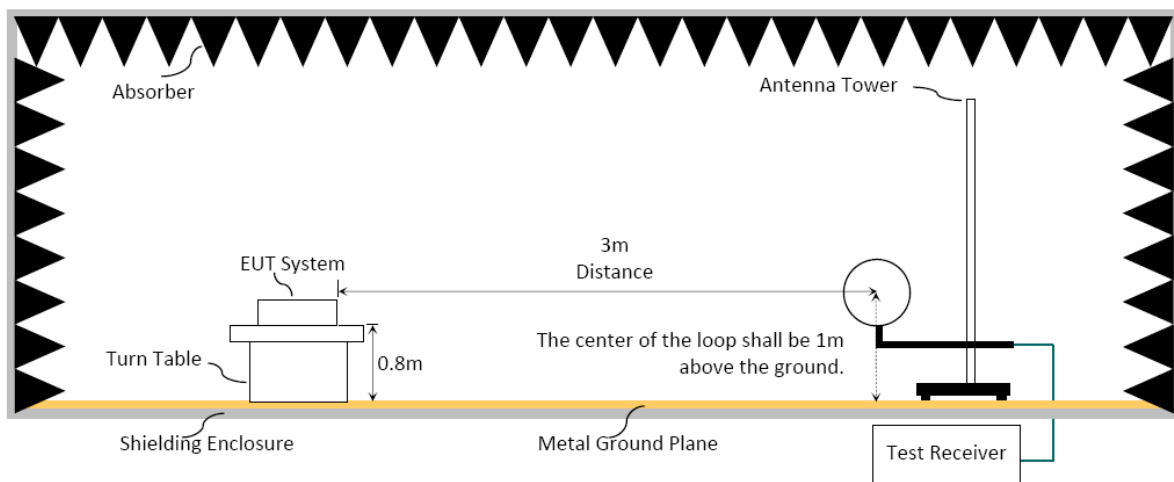
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

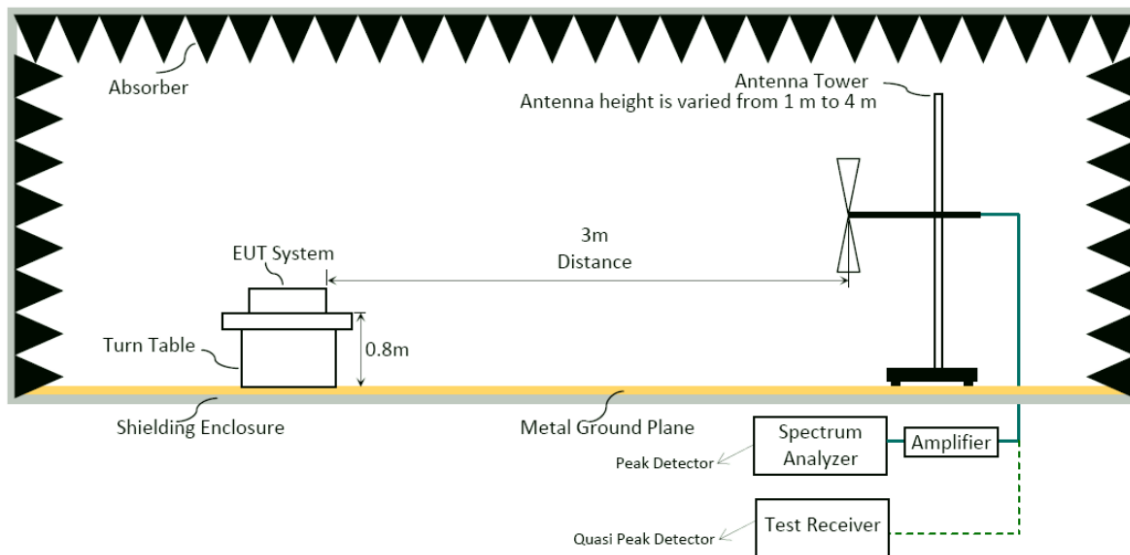
6.1.1. Block Diagram of EUT

Indicated as section 3.9

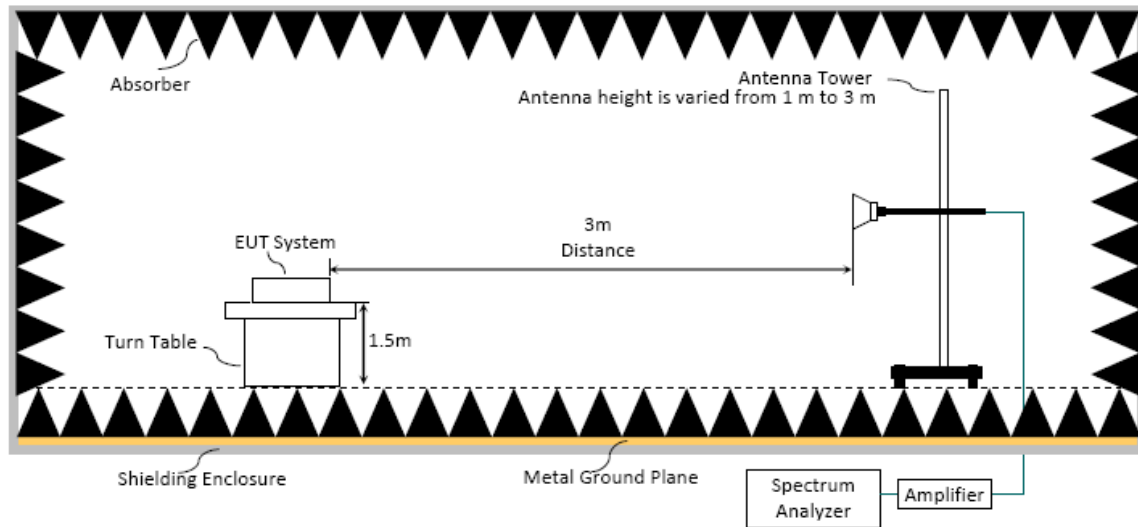
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

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

6.2.1. General Limit

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 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 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

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

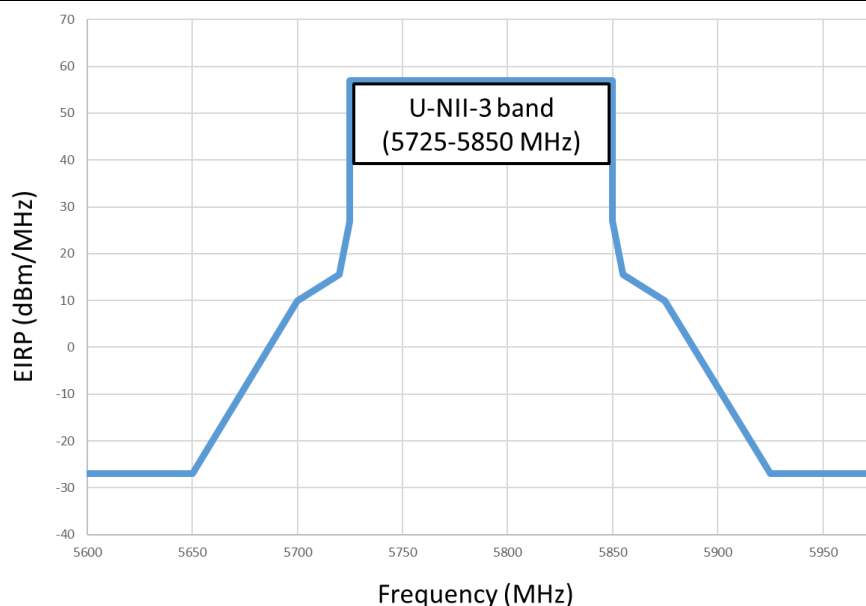
- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this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

6.2.2. Limit for non-restricted frequency above 1 GHz

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

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

Frequency Band (MHz)	Field Strength Limit at 3 m	
5725 to 5850	☒	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))



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 (for 30-1000MHz) and from 1m to 3m (for above 1GHz) to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

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

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.

Average Detector:☒ **Option 1:**

(1) RBW = 1MHz

(2) VBW $\geq 1/T$.

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 $\geq 98\%$.

(1) Detector = Peak.

(2) Sweep time = auto.

(3) Trace mode = max hold.

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

☐ **Option 2:**

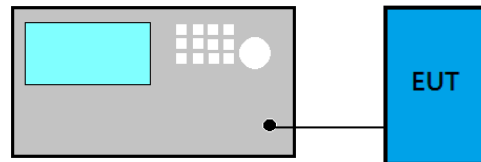
Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation☒ Peak Emission Level = Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)☒ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)☐ Average Emission Level = Peak Emission Level + DCCFDuty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.6.☐ ERP = Peak Emission Level - 95.2dB - 2.14dB**6.5. Test Results**

Please refer to Appendix A.

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	$\geq 500\text{kHz}$

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

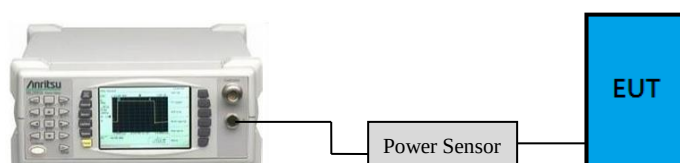
- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

7.4. Test Results

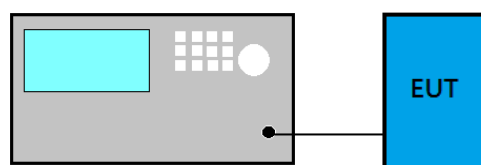
Please refer to Appendix A

8. MAXIMUM OUTPUT POWER

8.1. Block Diagram of Test Setup



- For 802.11ac-VHT80/160, 802.11ax-HE160 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 $11 \text{ dBm} + 10 \log B$ ^{Note1}
5470 to 5725		250 mW or $11 \text{ dBm} + 10 \log B$ ^{Note1}
5725 to 5850		1 W(30 dBm)

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

8.3. Test Procedure

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

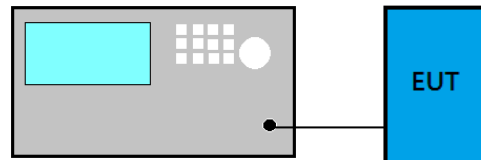
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the 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

9. POWER SPECTRAL DENSITY

9.1. Block Diagram of Test Setup



9.2. 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

9.3. Test Procedure

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

■ Method AVGSA-2 (Spectrum channel power)

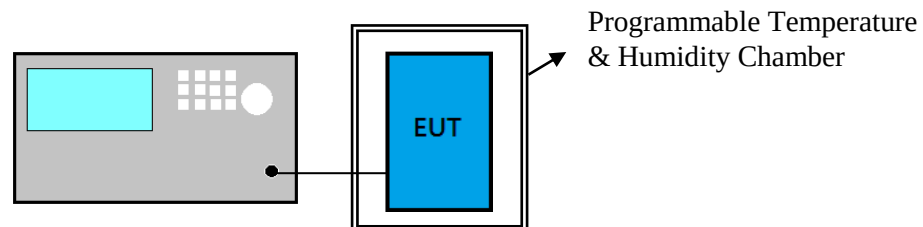
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Use peak search function to find out the maximum power density.
- (8) Duty cycle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

9.4. Test Results

Please refer to Appendix A

10. FREQUENCY STABILITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

NONE

10.3. 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)

10.4. Test Results

Please refer to Appendix A



11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



Audix Technology Corp.

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APPDNDIX A

TEST DATA AND PLOTS

(Model: 17U70N)

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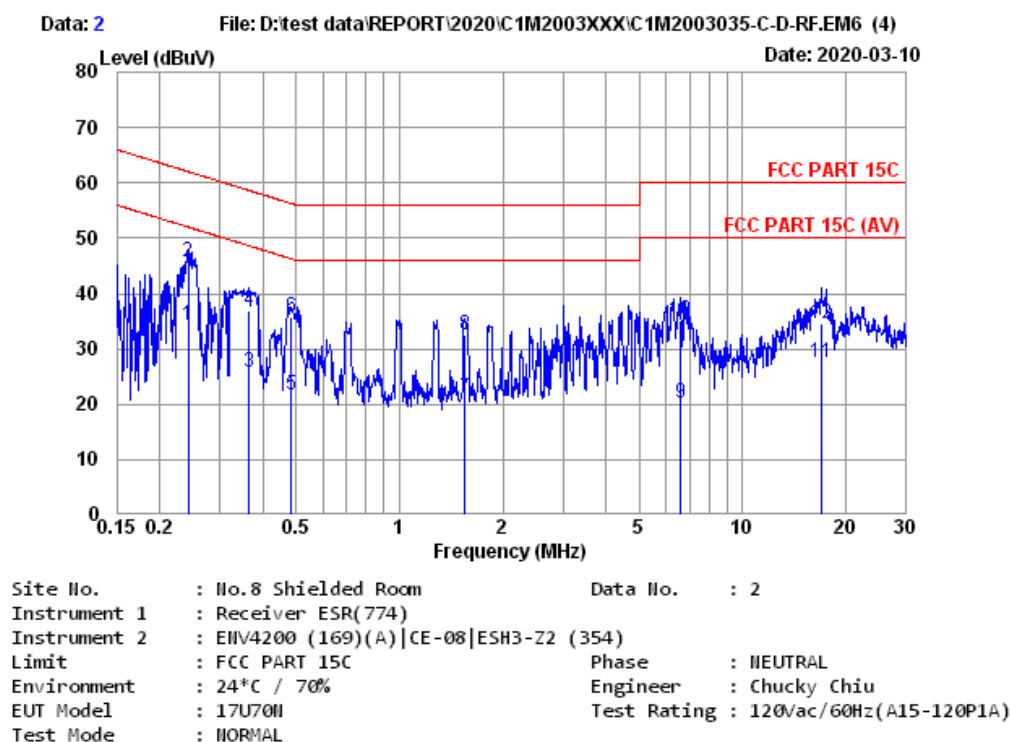
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A.1 CONDUCTED EMISSION

Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



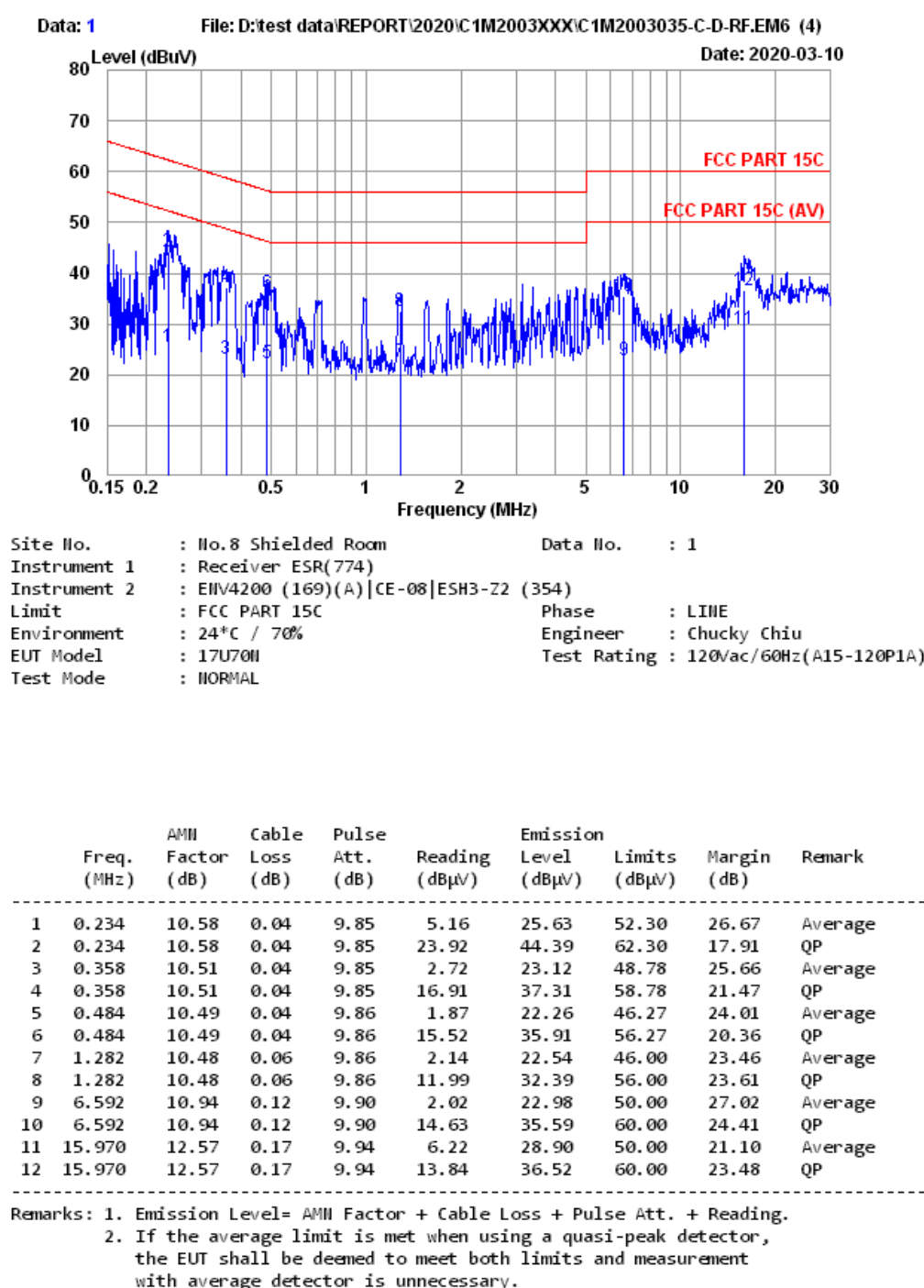
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.242	10.61	0.04	9.85	13.73	34.23	52.04	17.81	Average
2	0.242	10.61	0.04	9.85	25.18	45.68	62.04	16.36	QP
3	0.365	10.54	0.04	9.85	5.39	25.82	48.61	22.79	Average
4	0.365	10.54	0.04	9.85	16.53	36.96	58.61	21.65	QP
5	0.484	10.52	0.04	9.86	1.37	21.79	46.27	24.48	Average
6	0.484	10.52	0.04	9.86	15.30	35.72	56.27	20.55	QP
7	1.552	10.53	0.06	9.86	0.60	21.05	46.00	24.95	Average
8	1.552	10.53	0.06	9.86	11.95	32.40	56.00	23.60	QP
9	6.592	11.09	0.12	9.90	-0.78	20.33	50.00	29.67	Average
10	6.592	11.09	0.12	9.90	14.10	35.21	60.00	24.79	QP
11	16.928	13.10	0.17	9.95	4.22	27.44	50.00	22.56	Average
12	16.928	13.10	0.17	9.95	11.28	34.50	60.00	25.50	QP

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

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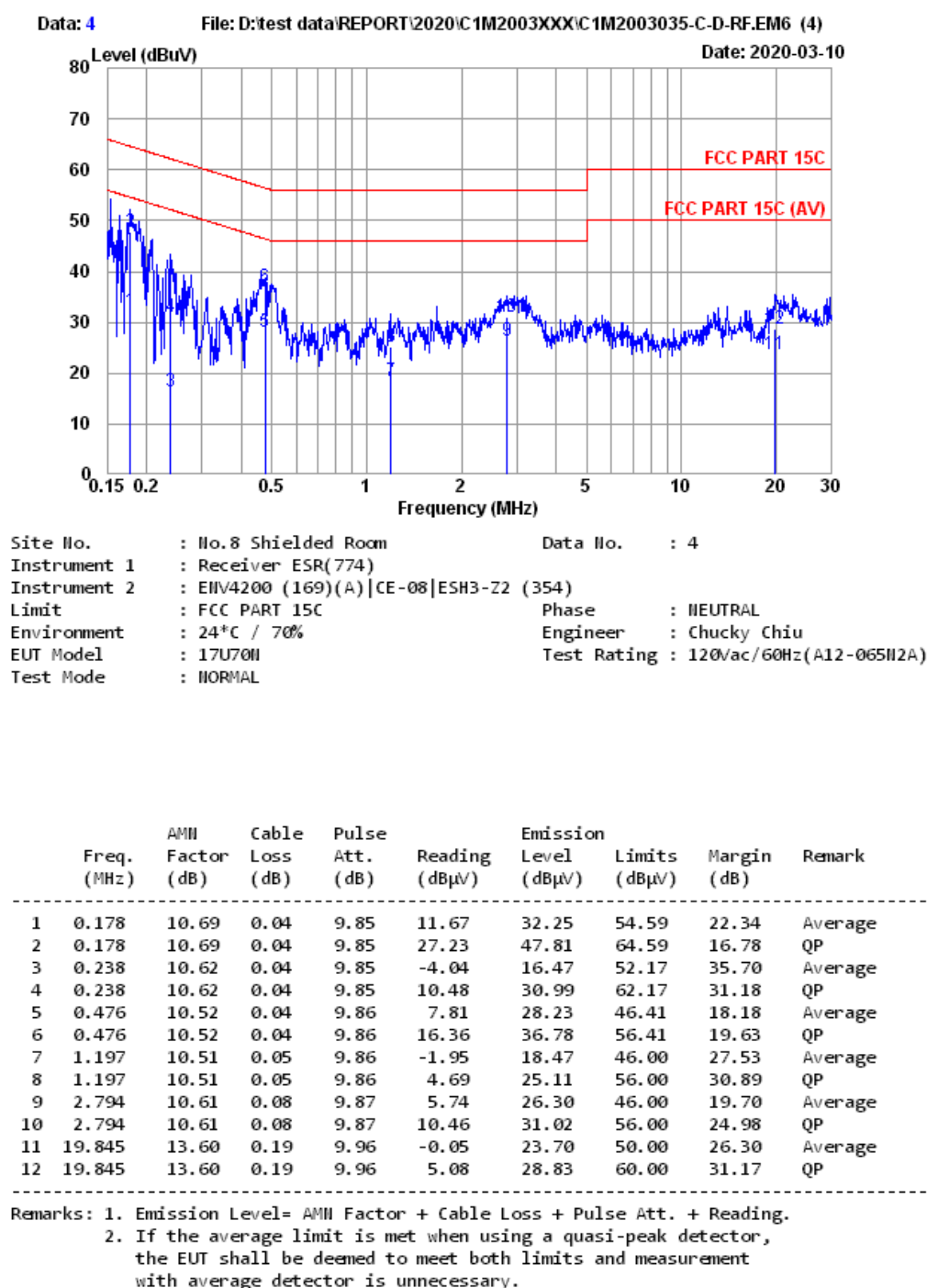
Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



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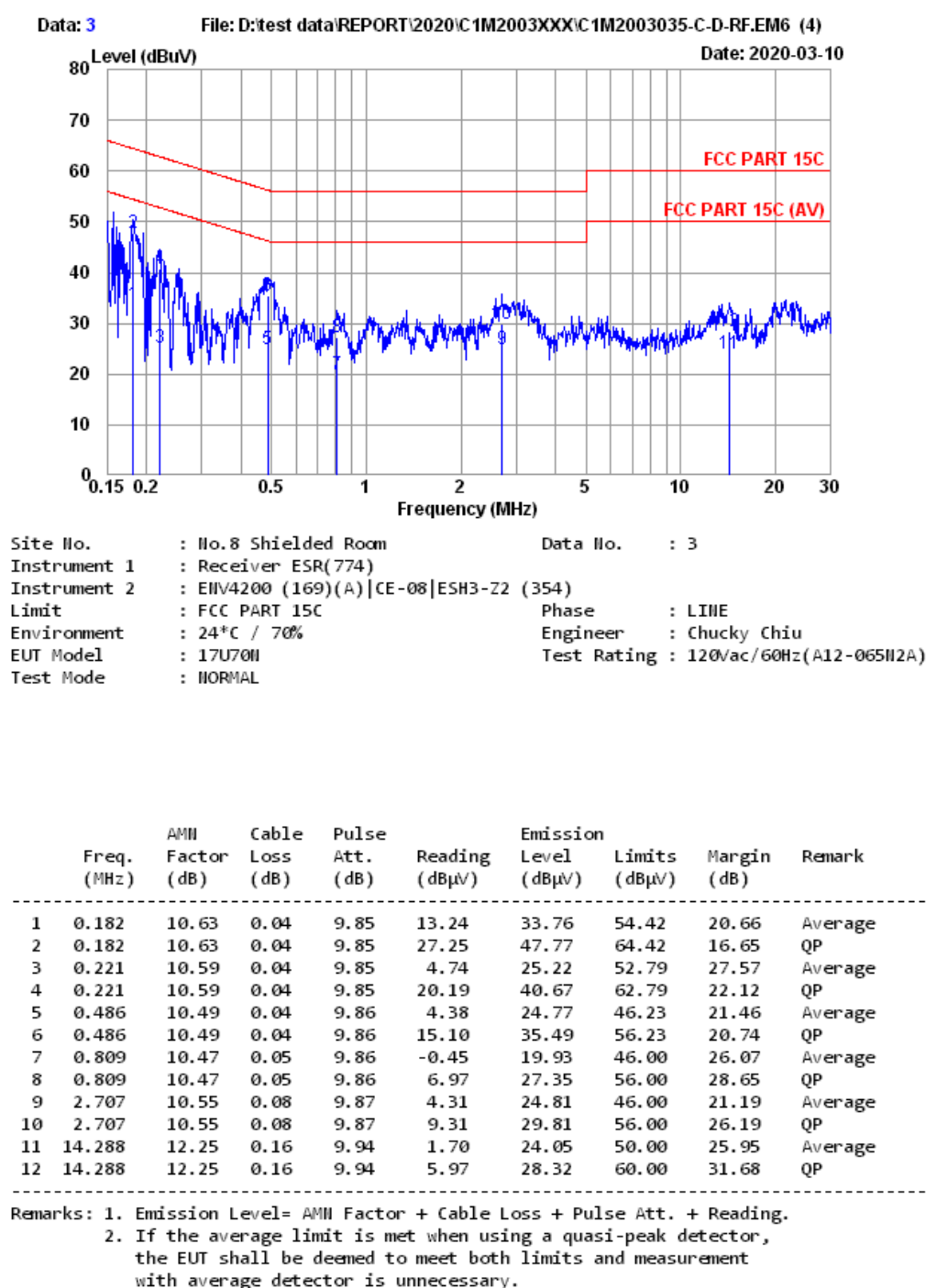
Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



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Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



A.2 RADIATED EMISSION

Test Date	2020/03/05~11	Temp./Hum.	19~23°C/58~67%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Sam Chang
Test SKU	SKU #1		

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	802.11ac-VHT80	Band	NII-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
35.820	21.56	1.38	1.78	24.72	40.00	15.28	Peak
101.780	16.92	2.45	5.25	24.62	43.50	18.88	Peak
216.240	16.49	3.70	6.59	26.78	46.00	19.22	Peak
592.600	24.72	7.02	2.47	34.21	46.00	11.79	Peak
916.580	26.92	8.79	1.51	37.22	46.00	8.78	Peak
981.570	27.30	9.08	1.54	37.92	54.00	16.08	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.940	23.35	1.26	-0.34	24.27	40.00	15.73	Peak
120.210	18.71	2.68	0.93	22.32	43.50	21.18	Peak
339.430	20.37	5.14	1.80	27.31	46.00	18.69	Peak
561.560	24.32	6.99	2.30	33.61	46.00	12.39	Peak
889.420	26.76	8.66	1.88	37.30	46.00	8.70	Peak
966.050	27.21	9.01	1.56	37.78	54.00	16.22	Peak

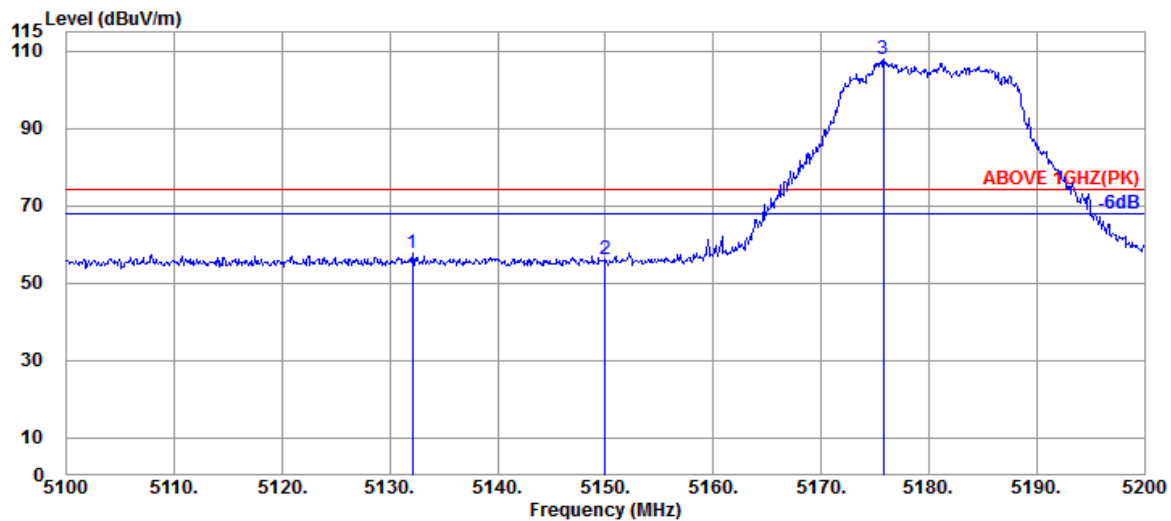
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

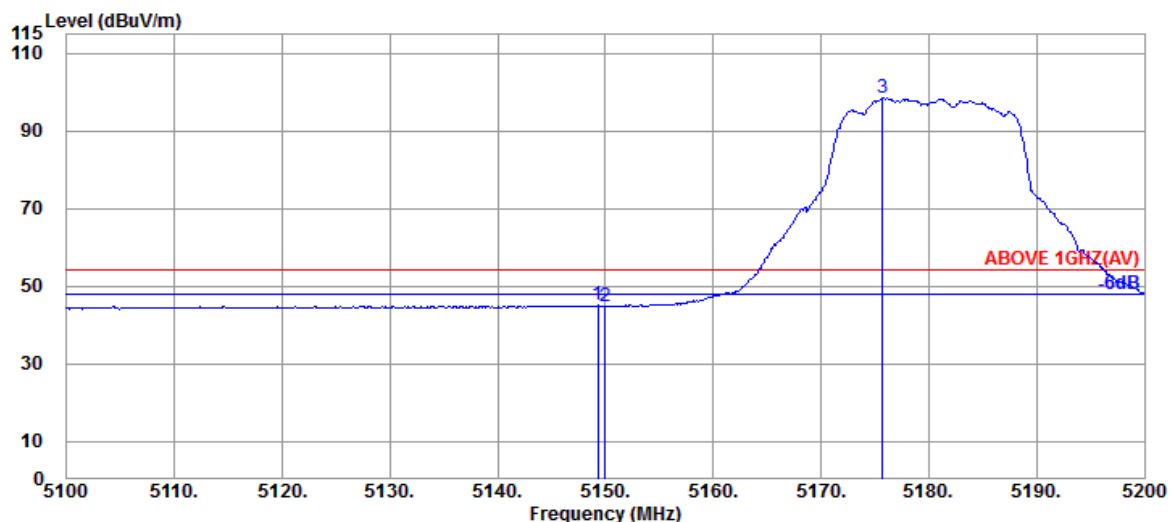
Band Edge:

Mode	802.11a	Band	NII-I
		Frequency	TX 5180MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5132.100	33.86	10.35	13.32	57.53	74.00	16.47	Peak
5150.000	33.90	10.36	11.72	55.98	74.00	18.02	Peak
@ 5175.800	34.00	10.38	63.74	108.12	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5149.300	33.90	10.36	0.69	44.95	54.00	9.05	Average
5150.000	33.90	10.36	0.47	44.73	54.00	9.27	Average
@ 5175.700	34.00	10.38	54.24	98.62	---	---	Average

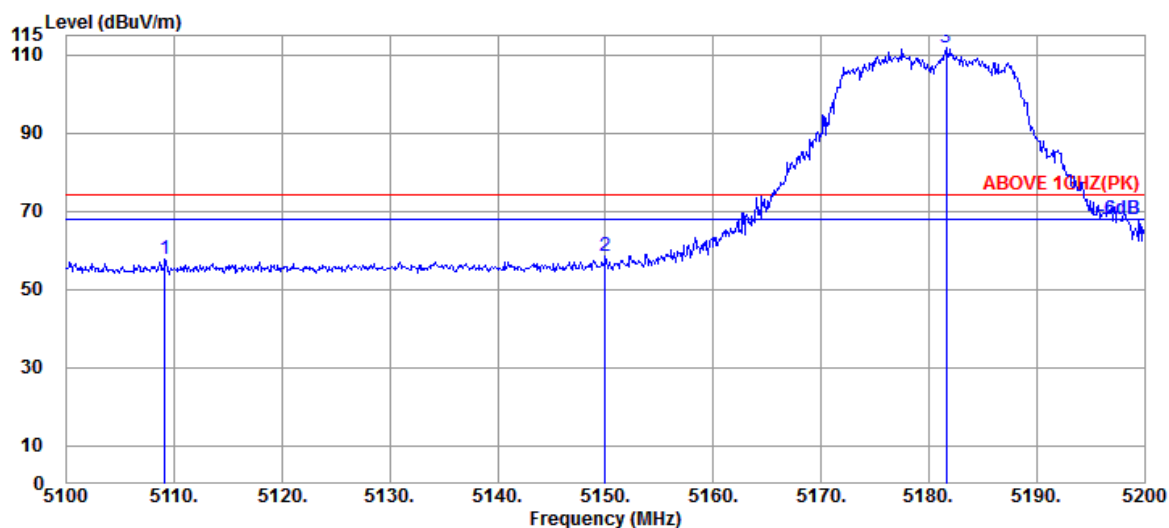
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File Number: C1M2003035

Report Number: EM-F200118

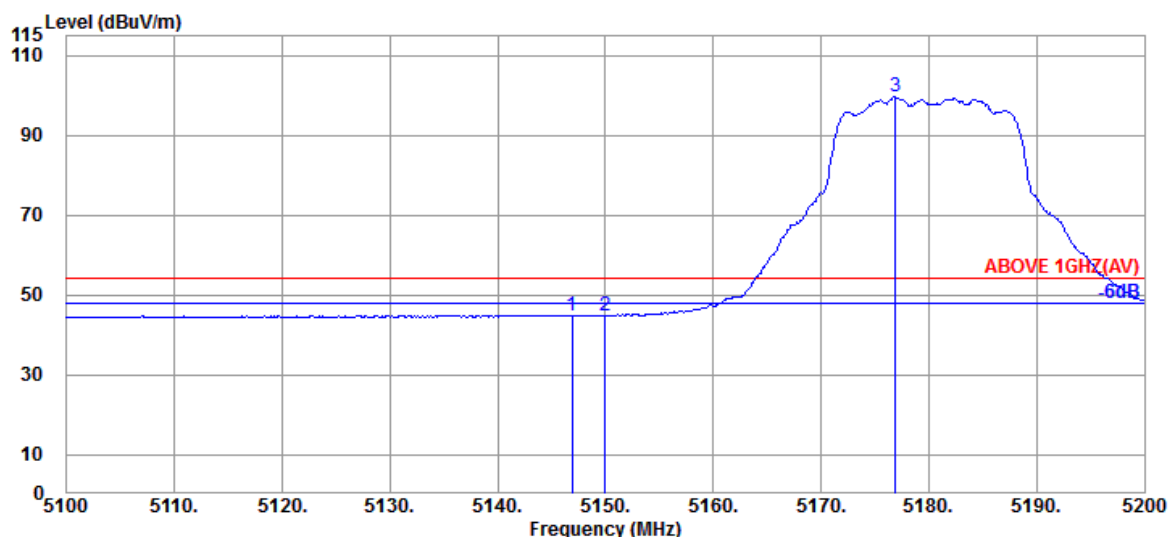
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Mode	802.11a	Band	NII-I
		Frequency	TX 5180MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5109.100	33.82	10.35	13.48	57.65	74.00	16.35	Peak
5150.000	33.90	10.36	14.10	58.36	74.00	15.64	Peak
@ 5181.600	34.03	10.38	67.37	111.78	---	---	Peak



Antenna at Vertical Polarization

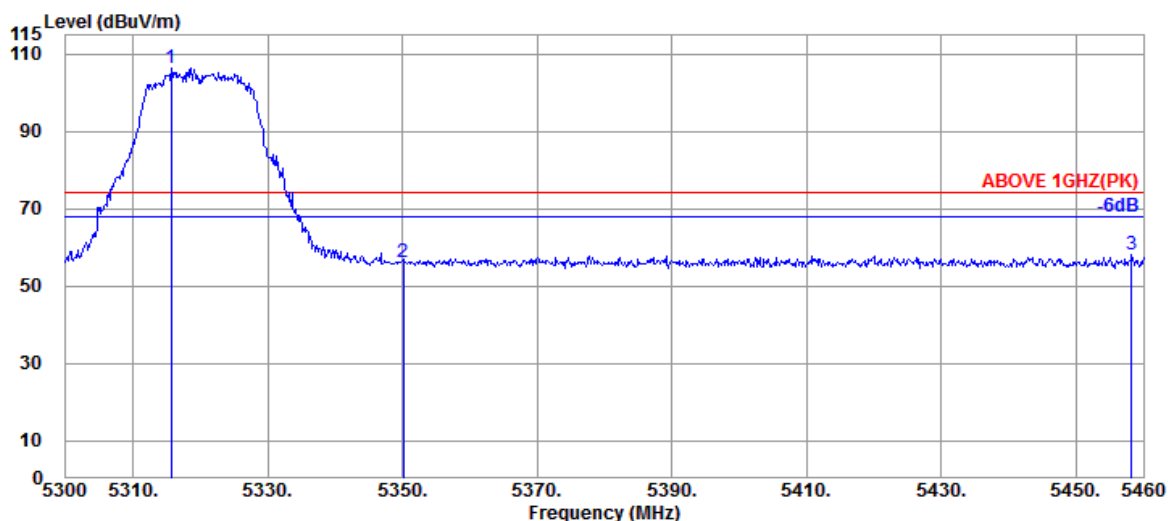
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5146.900	33.89	10.36	0.69	44.94	54.00	9.06	Average
5150.000	33.90	10.36	0.67	44.93	54.00	9.07	Average
@ 5176.900	34.01	10.38	55.23	99.62	---	---	Average

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

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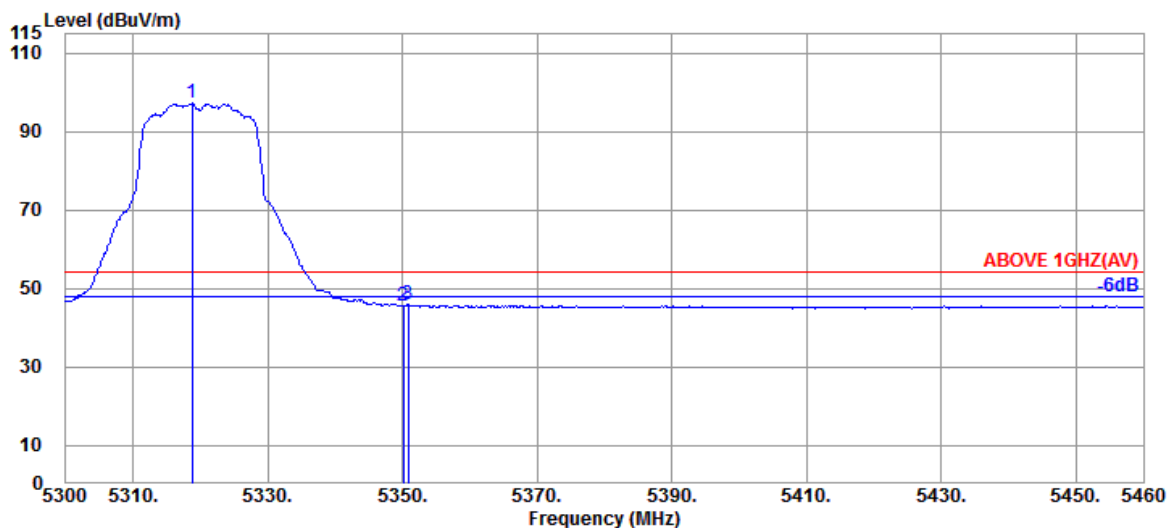
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Mode	802.11a	Band	NII-2A
		Frequency	TX 5320MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 5315.680	34.50	10.46	61.43	106.39	---	---	Peak
5350.080	34.50	10.48	11.25	56.23	74.00	17.77	Peak
5458.240	34.50	10.53	12.88	57.91	74.00	16.09	Peak

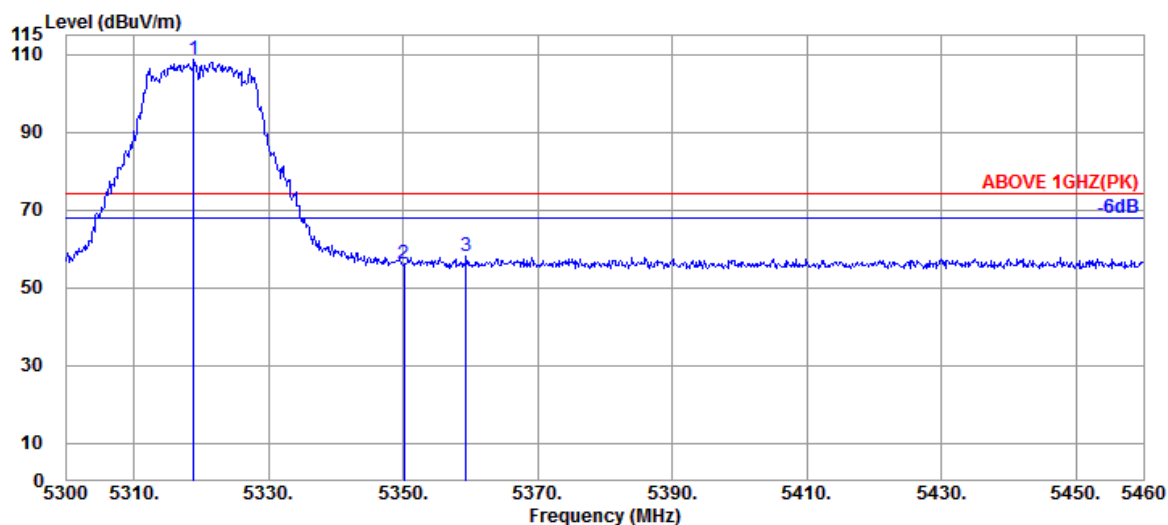


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 5318.720	34.50	10.46	52.44	97.40	---	---	Average
5350.080	34.50	10.48	0.57	45.55	54.00	8.45	Average
5350.880	34.50	10.48	0.80	45.78	54.00	8.22	Average

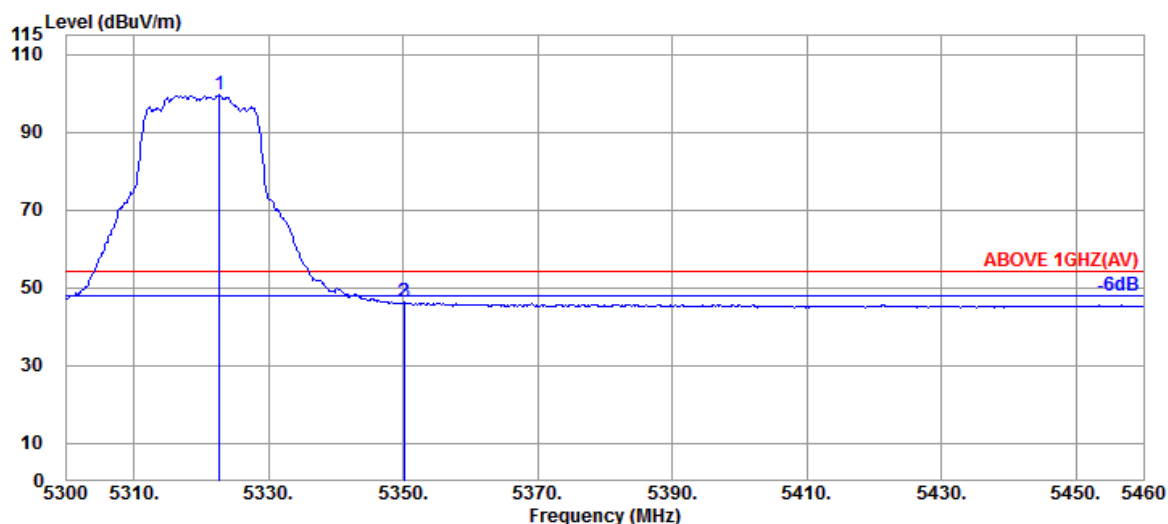
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11a	Band	NII-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
@	5318.880	34.50	10.46	63.58	108.54	---	---	Peak
	5350.080	34.50	10.48	11.12	56.10	74.00	17.90	Peak
	5359.360	34.50	10.48	13.07	58.05	74.00	15.95	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
@	5322.720	34.50	10.46	54.71	99.67	---	---	Average
	5350.080	34.50	10.48	1.17	46.15	54.00	7.85	Average
	5350.240	34.50	10.48	1.22	46.20	54.00	7.80	Average

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

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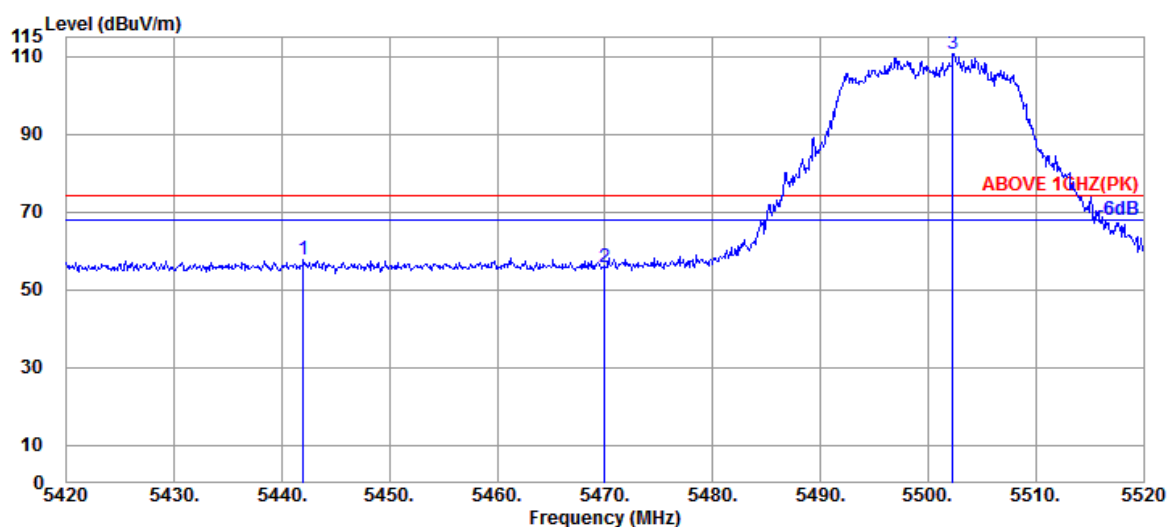
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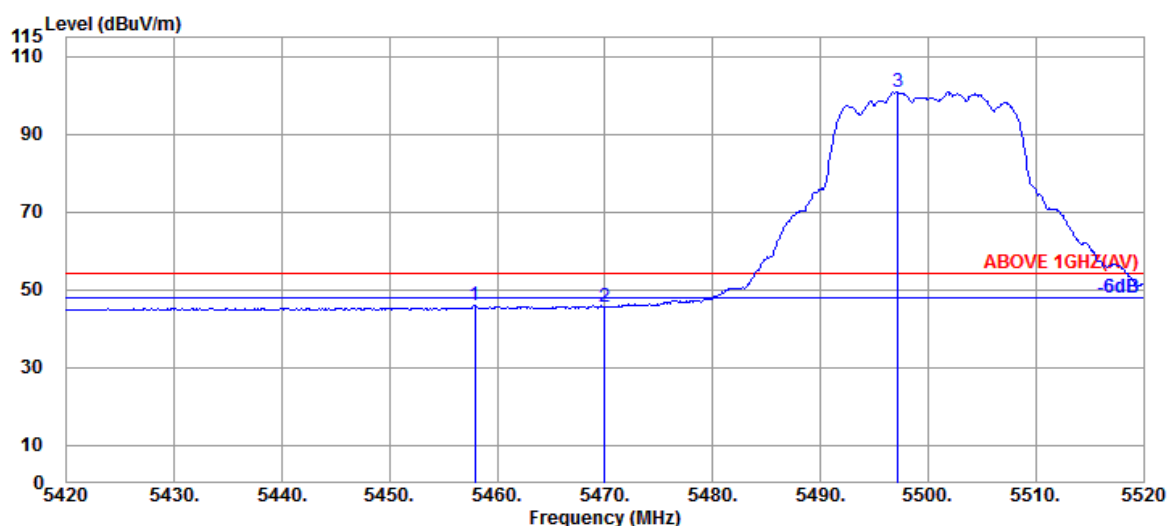
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Mode	802.11a	Band	NII-2C
		Frequency	TX 5500MHz



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
5442.000	34.50	10.52	12.66	57.68	74.00	16.32	Peak
5470.000	34.50	10.54	10.85	55.89	74.00	18.11	Peak
@ 5502.300	34.50	10.56	65.66	110.72	---	---	Peak



Antenna at Horizontal Polarization

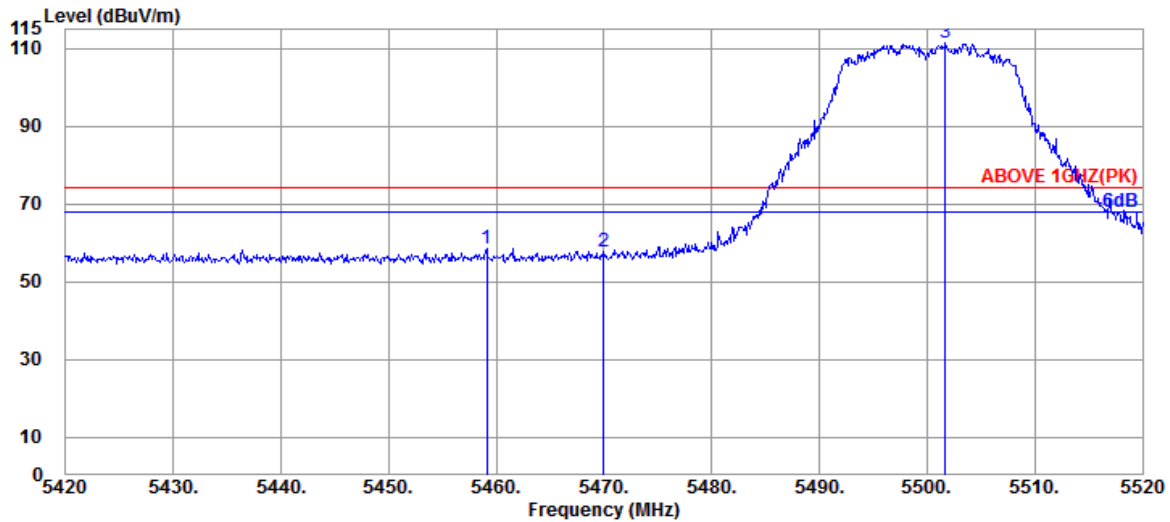
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5457.900	34.50	10.53	0.83	45.86	54.00	8.14	Average
5470.000	34.50	10.54	0.60	45.64	54.00	8.36	Average
@ 5497.200	34.50	10.56	55.84	100.90	---	---	Average

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

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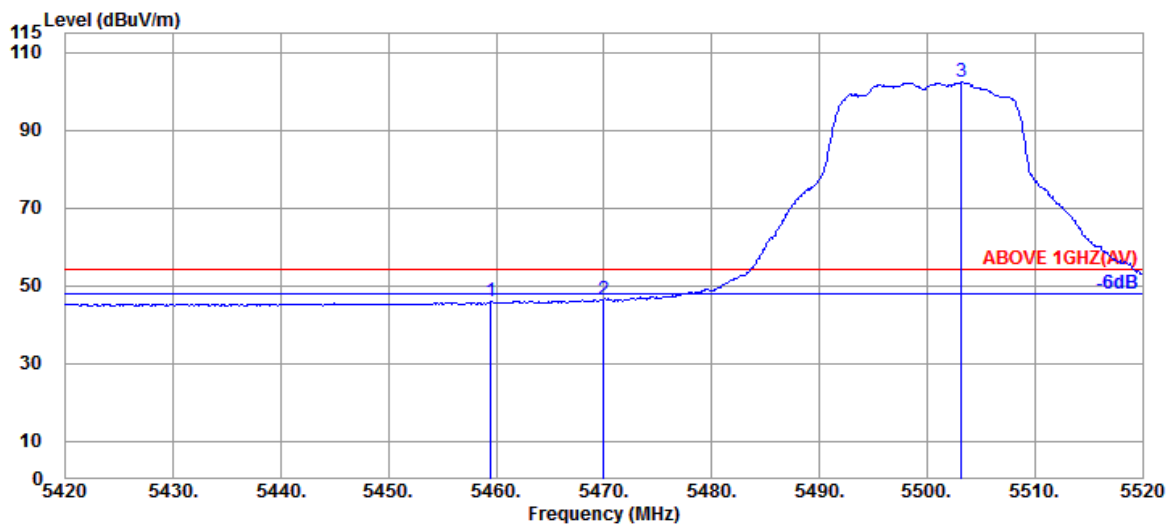
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		Frequency	TX 5500MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5459.100	34.50	10.53	13.34	58.37	74.00	15.63	Peak
5470.000	34.50	10.54	12.61	57.65	74.00	16.35	Peak
@ 5501.700	34.50	10.56	66.35	111.41	---	---	Peak

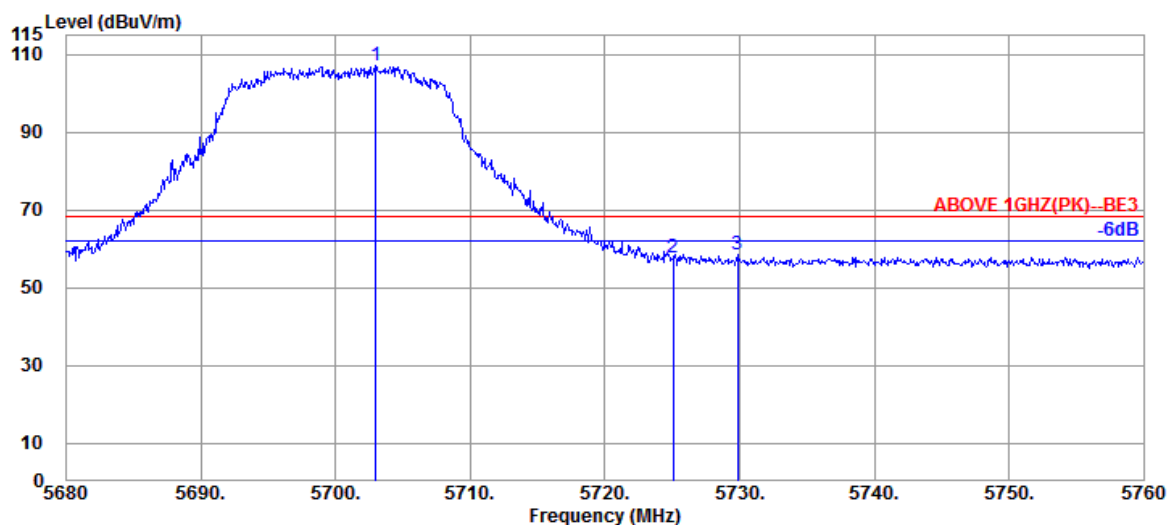


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5459.500	34.50	10.53	0.84	45.87	54.00	8.13	Average
5470.000	34.50	10.54	1.26	46.30	54.00	7.70	Average
@ 5503.200	34.51	10.56	57.23	102.30	---	---	Average

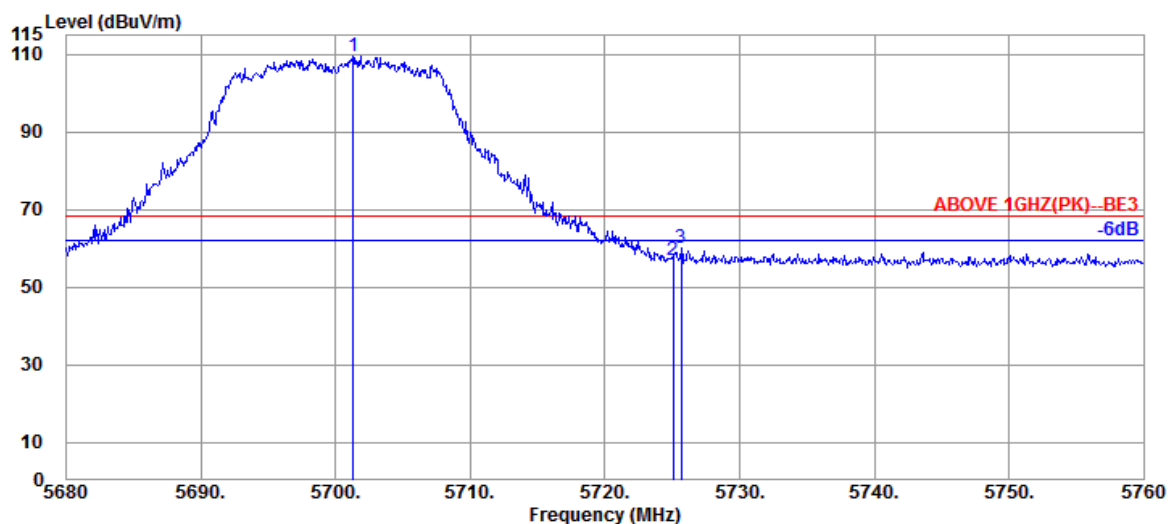
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11a	Band	NII-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
@	5702.960	34.40	10.82	61.85	107.07	---	---	Peak
	5725.040	34.40	10.84	12.54	57.78	68.20	10.42	Peak
	5729.840	34.40	10.84	13.35	58.59	68.20	9.61	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
@	5701.280	34.40	10.82	64.38	109.60	---	---	Peak
	5725.040	34.40	10.84	11.62	56.86	68.20	11.34	Peak
	5725.680	34.40	10.84	14.89	60.13	68.20	8.07	Peak

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

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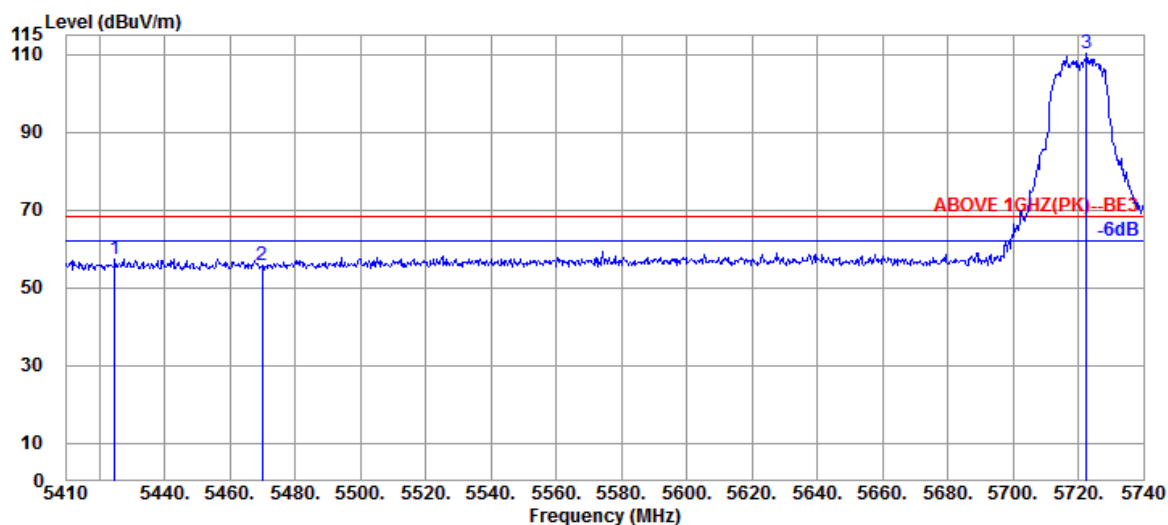
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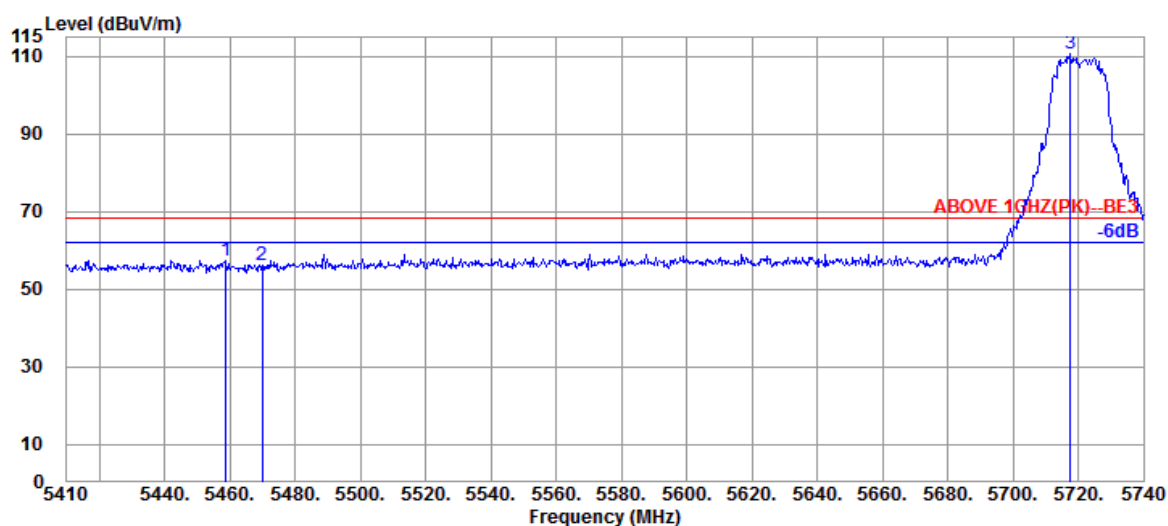
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Mode	802.11a	Band	NII-2C
		Frequency	TX 5720MHz



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
5424.850	34.50	10.51	12.37	57.38	68.20	10.82	Peak
5470.060	34.50	10.54	10.55	55.59	68.20	12.61	Peak
@ 5722.510	34.40	10.84	65.06	110.30	---	---	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
5458.840	34.50	10.53	12.46	57.49	68.20	10.71	Peak
5470.060	34.50	10.54	11.06	56.10	68.20	12.10	Peak
@ 5717.560	34.40	10.84	65.38	110.62	---	---	Peak

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

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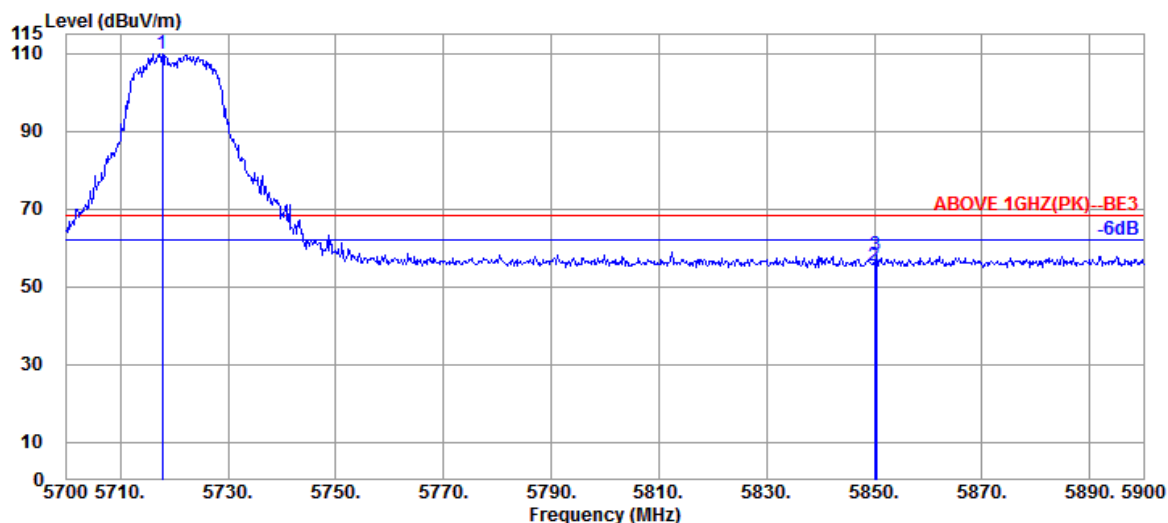
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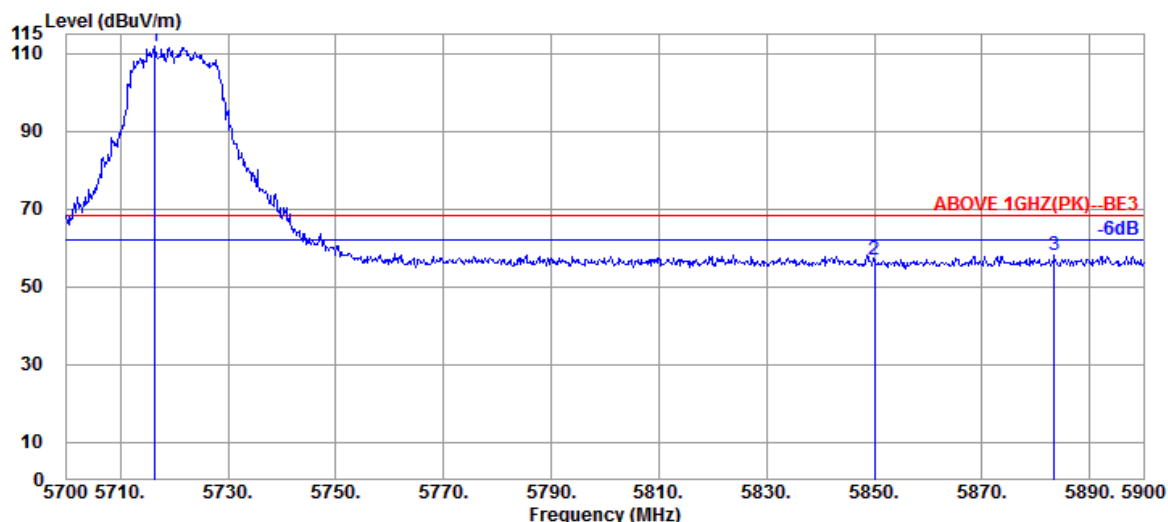
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Mode	802.11a	Band	NII-2C
		Frequency	TX 5720MHz



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
@	5717.800	34.40	10.84	64.73	109.97	---	---	Peak
	5850.000	34.40	10.99	10.05	55.44	68.20	12.76	Peak
	5850.400	34.40	10.99	12.54	57.93	68.20	10.27	Peak



Antenna at Vertical Polarization

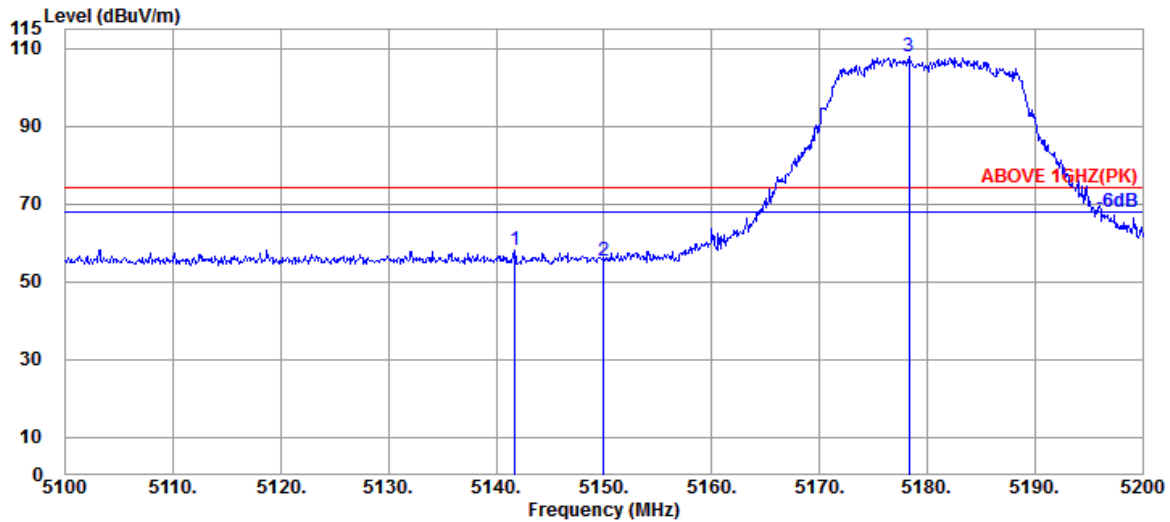
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@	5716.400	34.40	10.82	66.67	111.89	---	---	Peak
	5850.000	34.40	10.99	11.52	56.91	68.20	11.29	Peak
	5883.400	34.47	11.04	12.39	57.90	68.20	10.30	Peak

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

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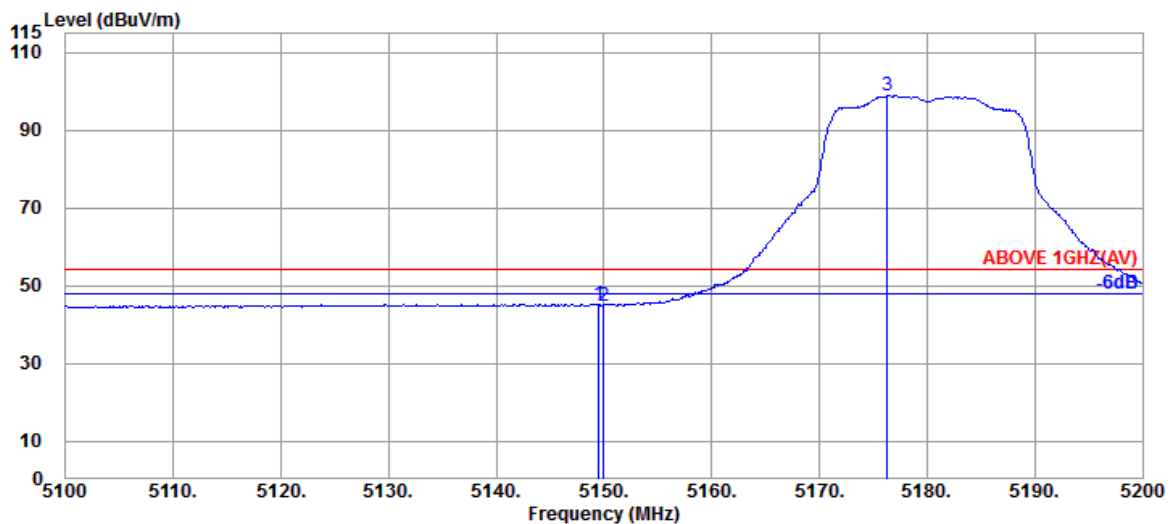
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Mode	802.11n-HT20	Band	NII-I
		Frequency	TX 5180MHz



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
5141.700	33.88	10.36	13.95	58.19	74.00	15.81	Peak
5150.000	33.90	10.36	11.11	55.37	74.00	18.63	Peak
@ 5178.300	34.01	10.38	63.48	107.87	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.500	33.90	10.36	0.86	45.12	54.00	8.88	Average
5150.000	33.90	10.36	0.60	44.86	54.00	9.14	Average
@ 5176.300	34.01	10.38	54.68	99.07	---	---	Average

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

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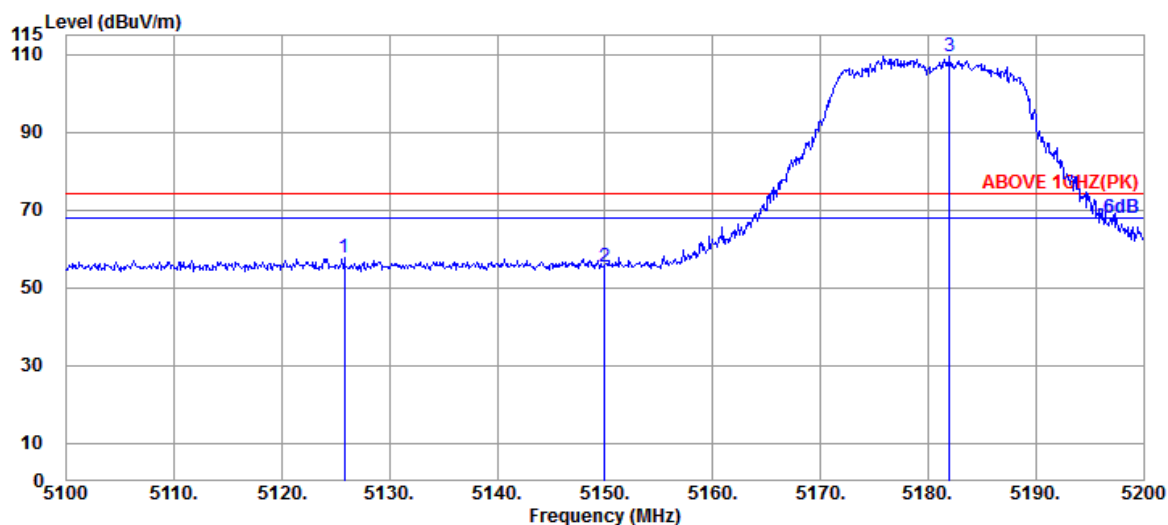
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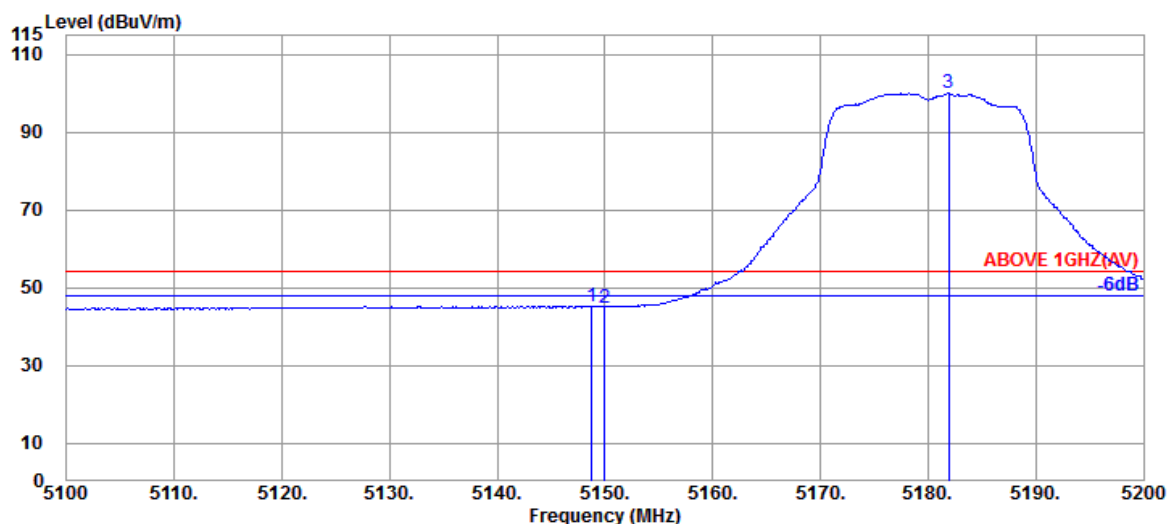
Fax: +886 2 26099303

Mode	802.11n-HT20	Band	NII-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
5125.800	33.85	10.35	13.50	57.70	74.00	16.30	Peak
5150.000	33.90	10.36	11.26	55.52	74.00	18.48	Peak
@ 5182.000	34.03	10.38	65.13	109.54	---	---	Peak



Antenna at Vertical Polarization

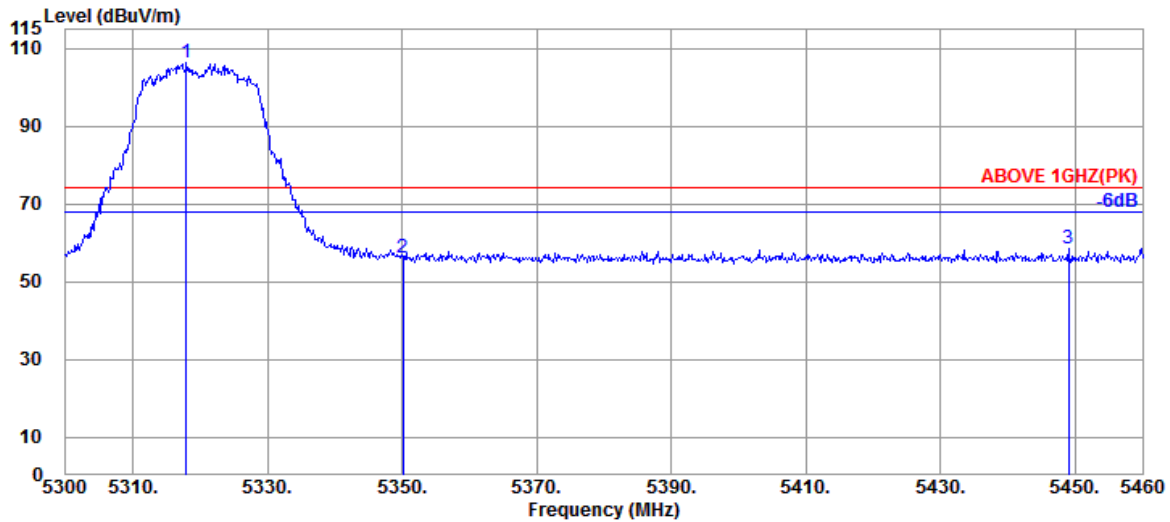
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.800	33.90	10.36	1.01	45.27	54.00	8.73	Average
5150.000	33.90	10.36	0.63	44.89	54.00	9.11	Average
@ 5181.900	34.03	10.38	55.63	100.04	---	---	Average

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

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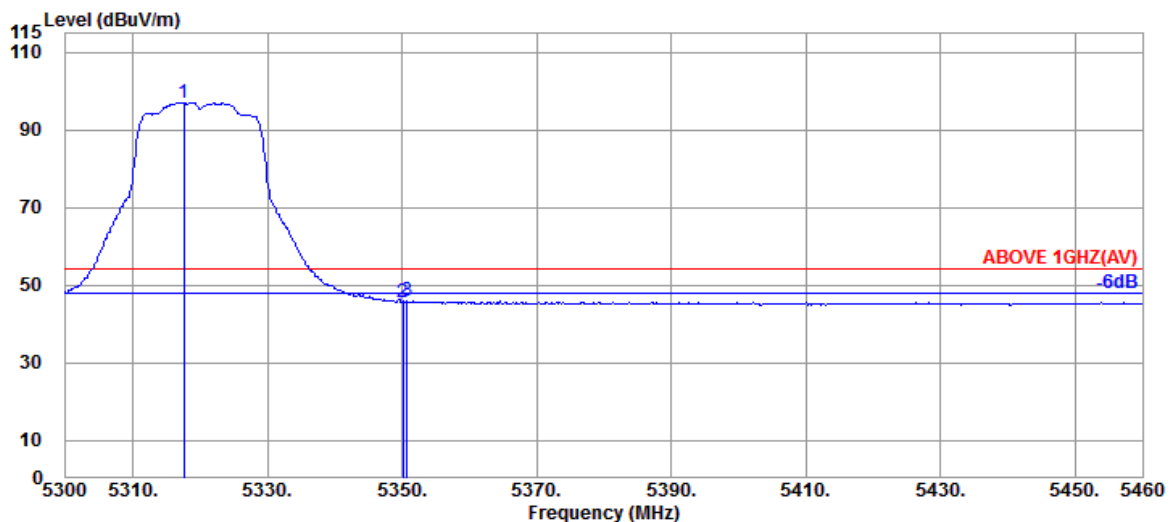
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Mode	802.11n-HT20	Band	NII-2A
		Frequency	TX 5320MHz



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
@	5317.920	34.50	10.46	61.37	106.33	---	---	Peak
	5350.080	34.50	10.48	11.07	56.05	74.00	17.95	Peak
	5448.960	34.50	10.53	13.50	58.53	74.00	15.47	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
@	5317.600	34.50	10.46	52.09	97.05	---	---	Average
	5350.080	34.50	10.48	0.72	45.70	54.00	8.30	Average
	5350.720	34.50	10.48	0.82	45.80	54.00	8.20	Average

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

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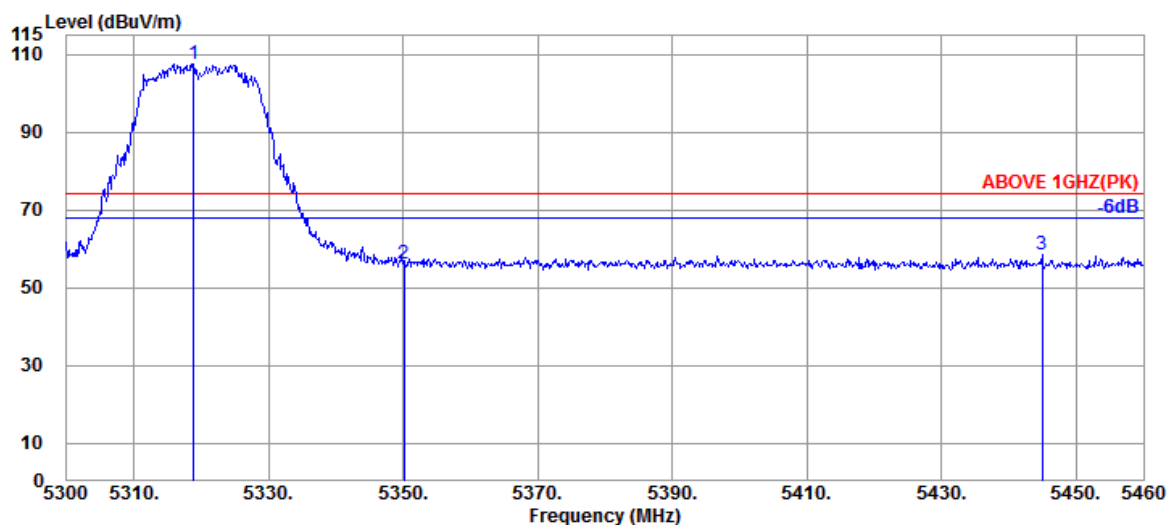
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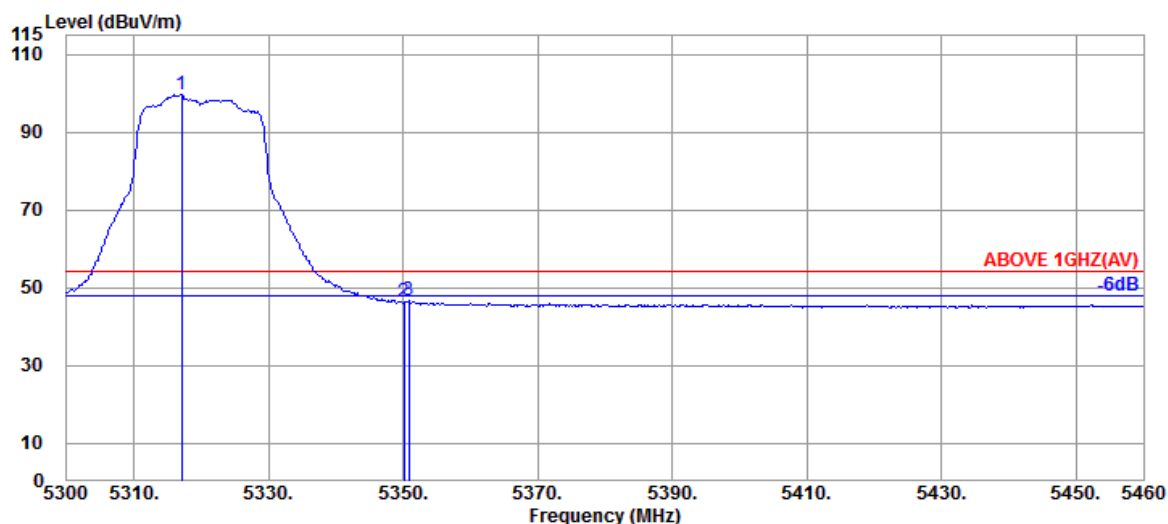
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Mode	802.11n-HT20	Band	NII-2A
		Frequency	TX 5320MHz



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
@	5318.880	34.50	10.46	62.48	107.44	---	---	Peak
	5350.080	34.50	10.48	11.17	56.15	74.00	17.85	Peak
	5444.960	34.50	10.52	13.31	58.33	74.00	15.67	Peak



Antenna at Vertical Polarization

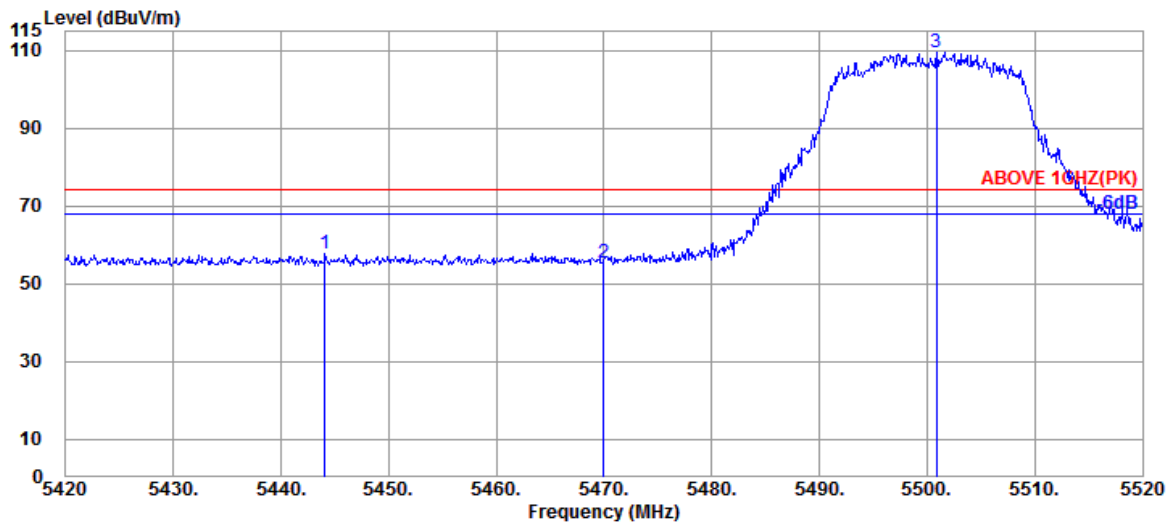
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@	5317.120	34.50	10.46	54.76	99.72	---	---	Average
	5350.080	34.50	10.48	1.16	46.14	54.00	7.86	Average
	5350.880	34.50	10.48	1.60	46.58	54.00	7.42	Average

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

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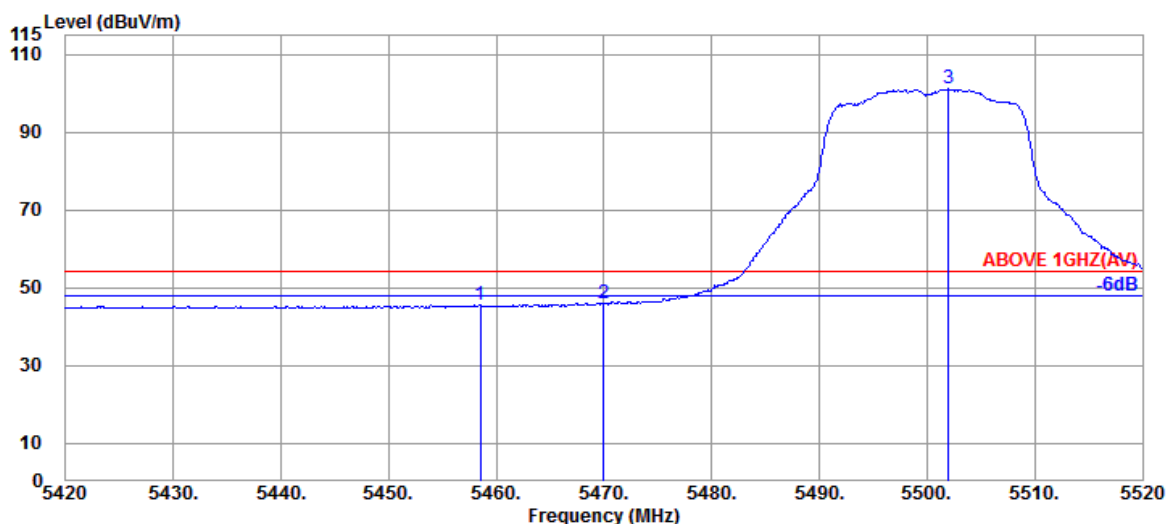
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Mode	802.11n-HT20	Band	NII-2C
		Frequency	TX 5500MHz



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
5444.100	34.50	10.52	12.69	57.71	74.00	16.29	Peak
5470.000	34.50	10.54	10.23	55.27	74.00	18.73	Peak
@ 5500.900	34.50	10.56	64.31	109.37	---	---	Peak

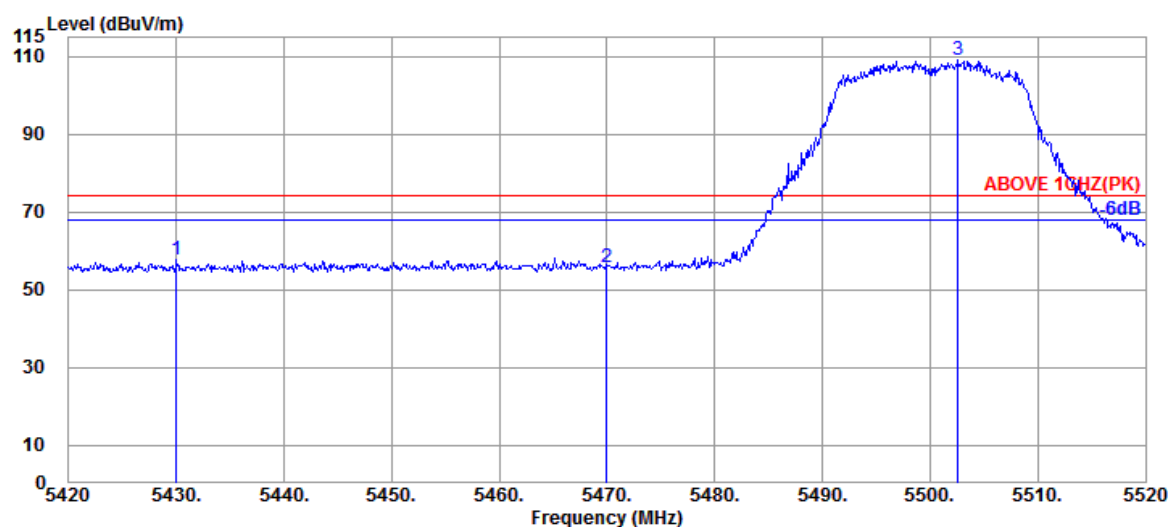


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.500	34.50	10.53	0.46	45.49	54.00	8.51	Average
5470.000	34.50	10.54	0.76	45.80	54.00	8.20	Average
@ 5502.000	34.50	10.56	56.01	101.07	---	---	Average

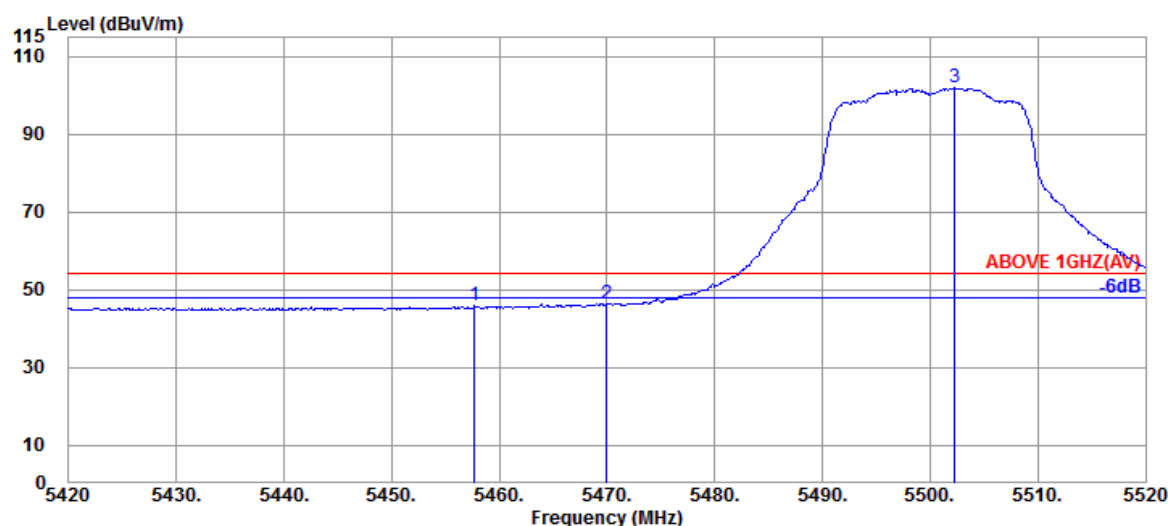
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Band	NII-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
5430.000	34.50	10.52	12.82	57.84	74.00	16.16	Peak
5470.000	34.50	10.54	10.79	55.83	74.00	18.17	Peak
@ 5502.600	34.51	10.56	63.98	109.05	---	---	Peak



Antenna at Vertical Polarization

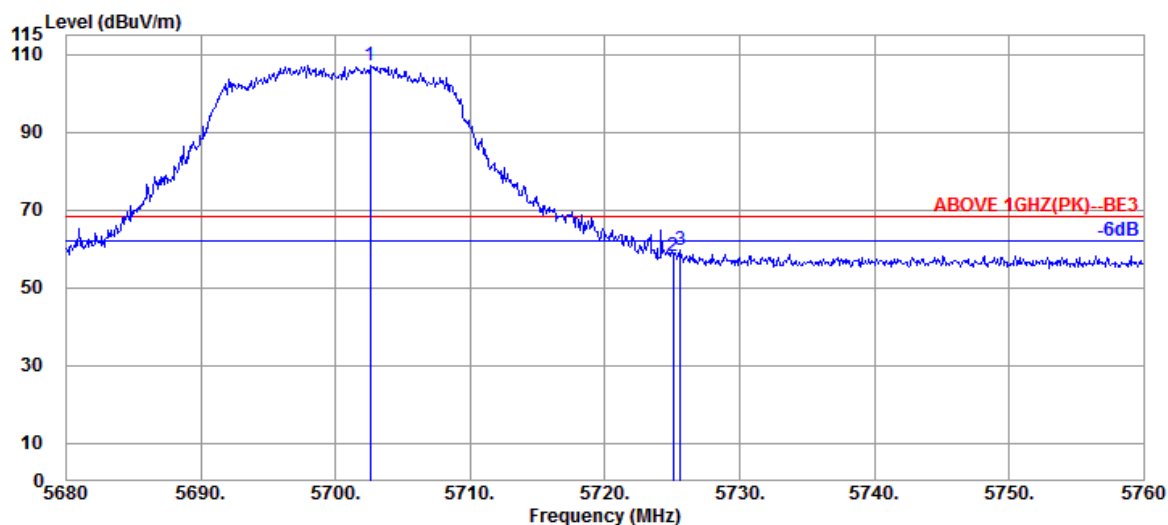
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5457.700	34.50	10.53	0.71	45.74	54.00	8.26	Average
5470.000	34.50	10.54	1.30	46.34	54.00	7.66	Average
@ 5502.300	34.50	10.56	56.80	101.86	---	---	Average

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

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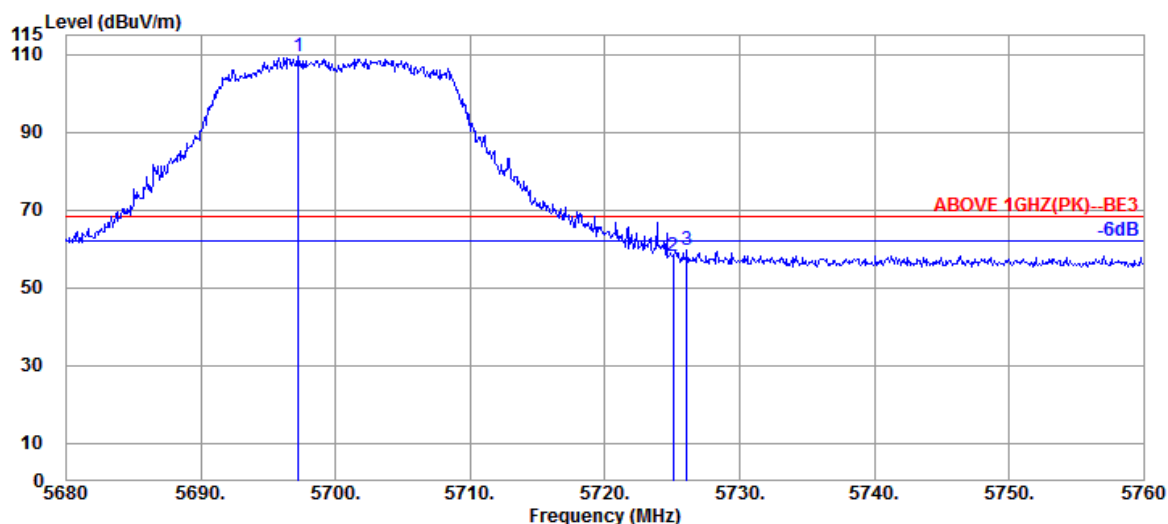
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Fax: +886 2 26099303

Mode	802.11n-HT20	Band	NII-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
@	5702.560	34.40	10.82	61.95	107.17	---	---	Peak
	5725.040	34.40	10.84	13.01	58.25	68.20	9.95	Peak
	5725.600	34.40	10.84	14.45	59.69	68.20	8.51	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
@	5697.200	34.41	10.80	64.39	109.60	---	---	Peak
	5725.040	34.40	10.84	12.68	57.92	68.20	10.28	Peak
	5726.080	34.40	10.84	14.61	59.85	68.20	8.35	Peak

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

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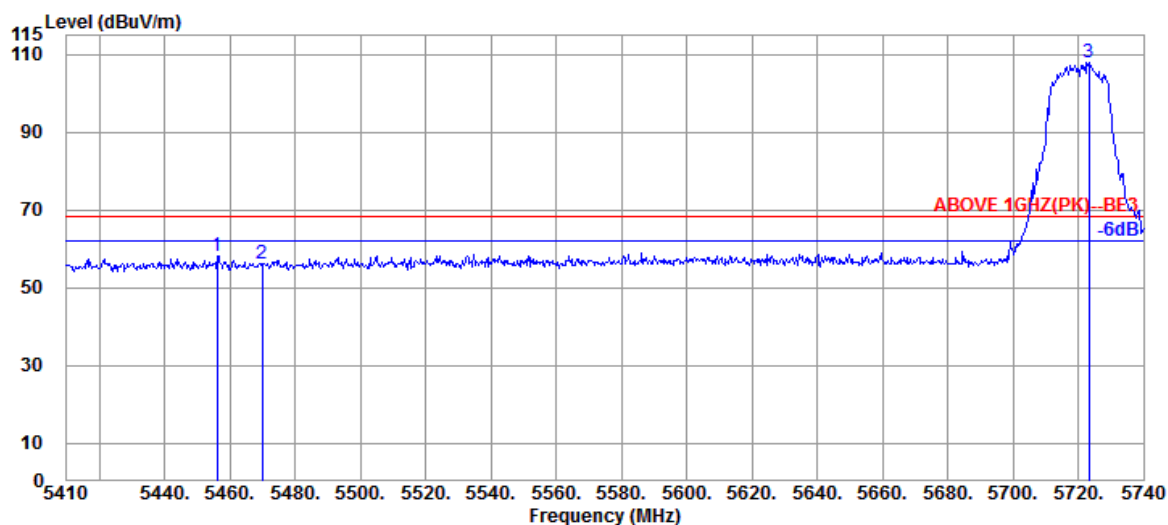
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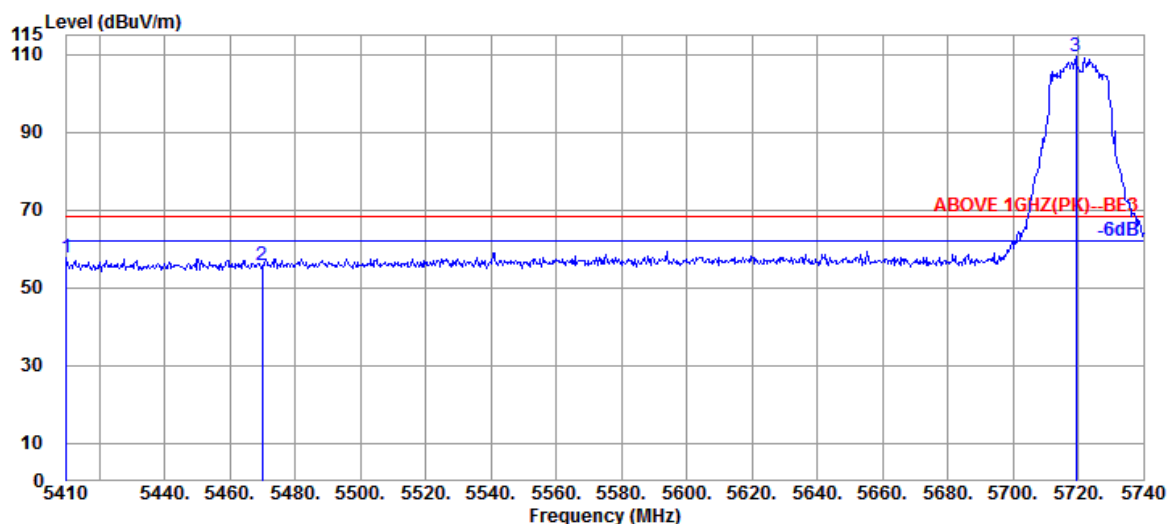
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Mode	802.11n-HT20	Band	NII-2C
		Frequency	TX 5720MHz



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
5456.200	34.50	10.53	13.09	58.12	68.20	10.08	Peak
5470.060	34.50	10.54	11.20	56.24	68.20	11.96	Peak
@ 5723.170	34.40	10.84	62.65	107.89	---	---	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
5410.000	34.50	10.50	12.62	57.62	68.20	10.58	Peak
5470.060	34.50	10.54	10.50	55.54	68.20	12.66	Peak
@ 5719.210	34.40	10.84	64.15	109.39	---	---	Peak

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

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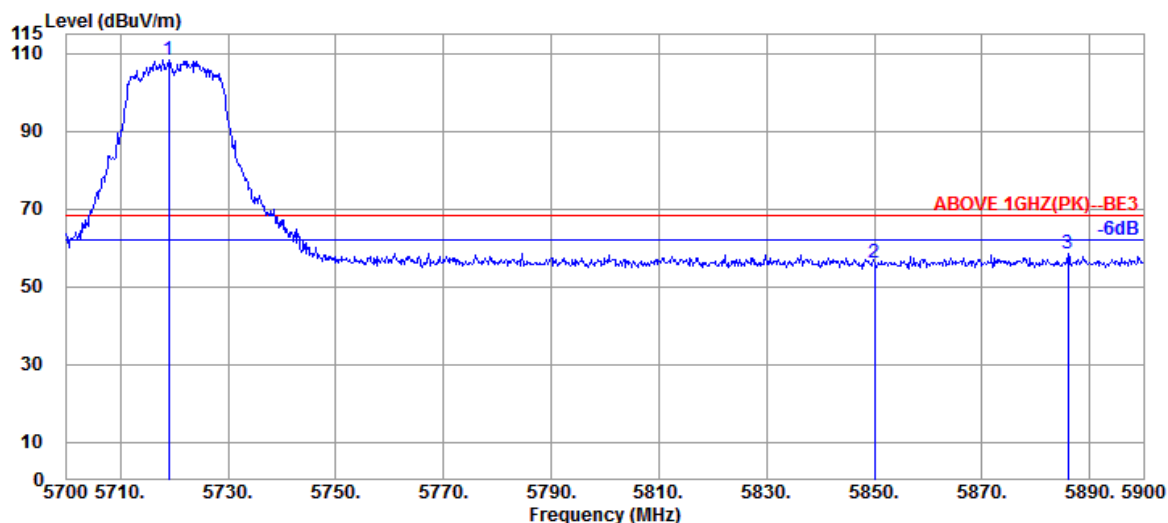
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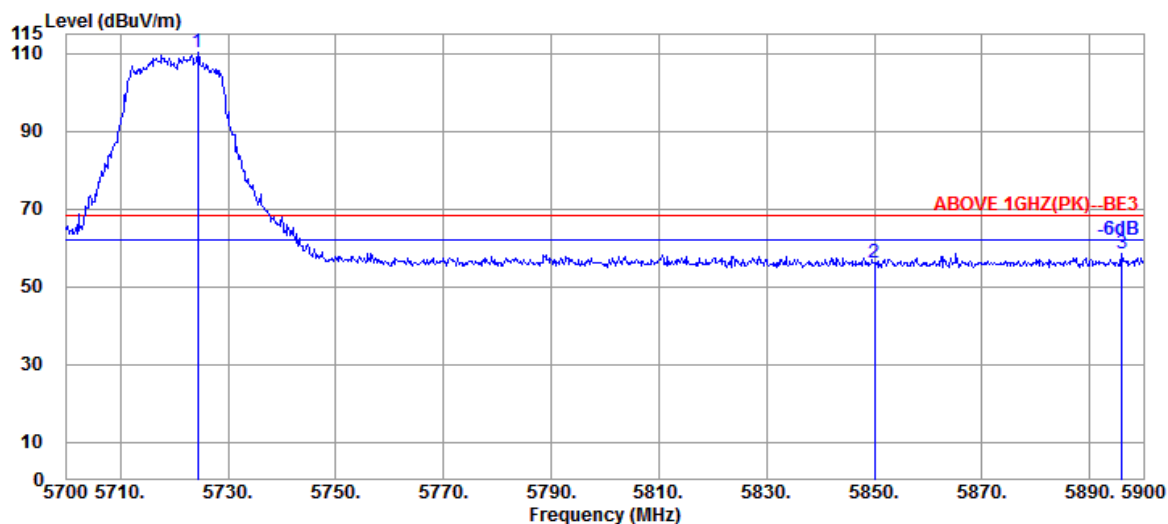
Fax: +886 2 26099303

Mode	802.11n-HT20	Band	NII-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
@	5719.000	34.40	10.84	63.06	108.30	---	---	Peak
	5850.000	34.40	10.99	10.84	56.23	68.20	11.97	Peak
	5886.000	34.47	11.04	12.78	58.29	68.20	9.91	Peak



Antenna at Vertical Polarization

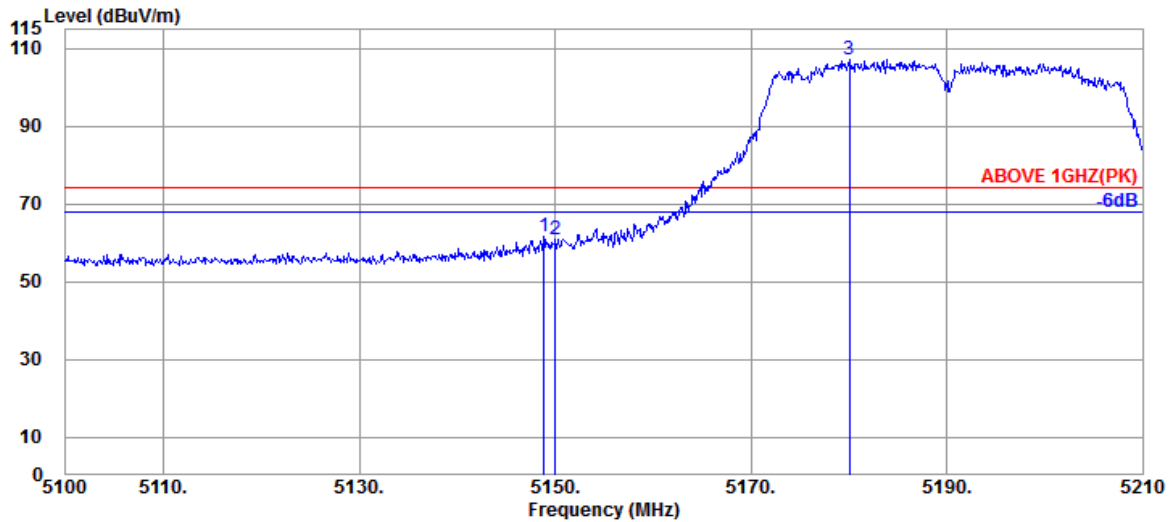
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@	5724.400	34.40	10.84	64.90	110.14	---	---	Peak
	5850.000	34.40	10.99	10.80	56.19	68.20	12.01	Peak
	5896.000	34.49	11.06	12.90	58.45	68.20	9.75	Peak

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

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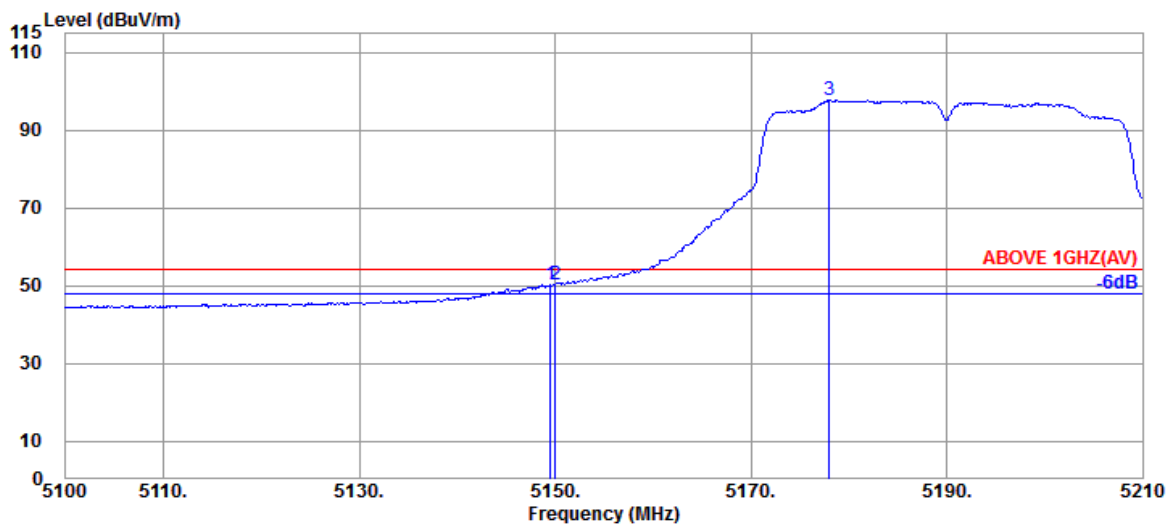
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Mode	802.11n-HT40	Band	NII-I
		Frequency	TX 5190MHz



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
5148.840	33.90	10.36	17.20	61.46	74.00	12.54	Peak
5150.050	33.90	10.36	16.66	60.92	74.00	13.08	Peak
@ 5180.080	34.02	10.38	62.74	107.14	---	---	Peak

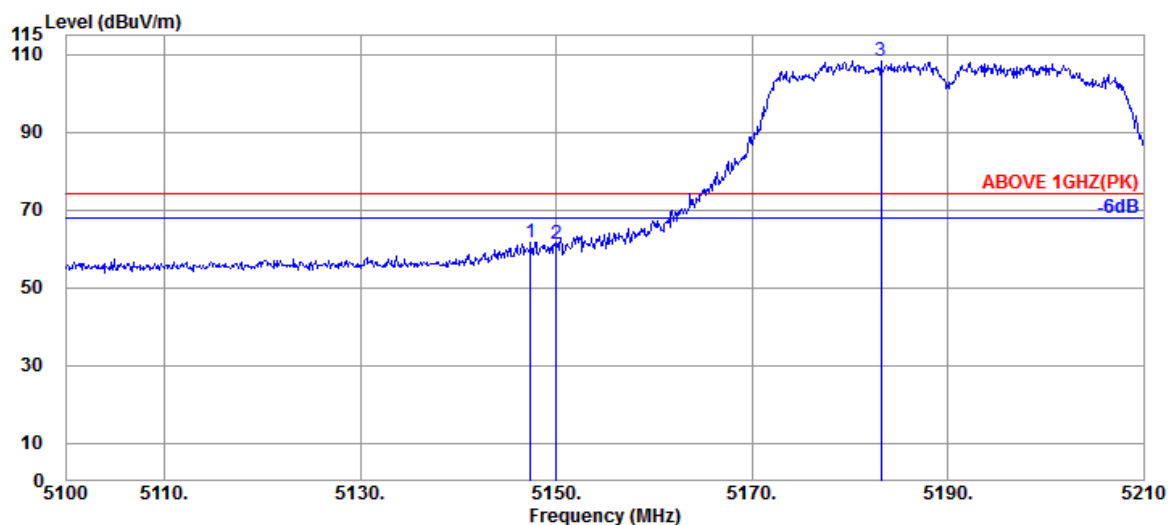


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.500	33.90	10.36	5.81	50.07	54.00	3.93	Average
5150.050	33.90	10.36	6.09	50.35	54.00	3.65	Average
@ 5177.990	34.01	10.38	53.25	97.64	---	---	Average

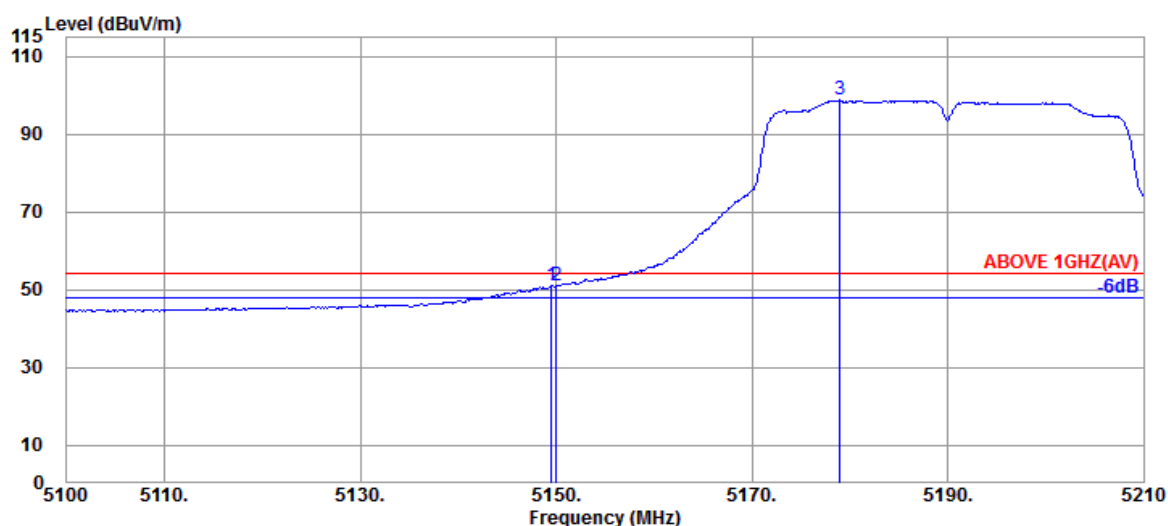
Remark: The “@” means fundamental frequency, it is ignored in this section.

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



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5147.410	33.89	10.36	17.31	61.56	74.00	12.44	Peak
5150.050	33.90	10.36	17.14	61.40	74.00	12.60	Peak
@ 5183.160	34.03	10.38	64.06	108.47	---	---	Peak

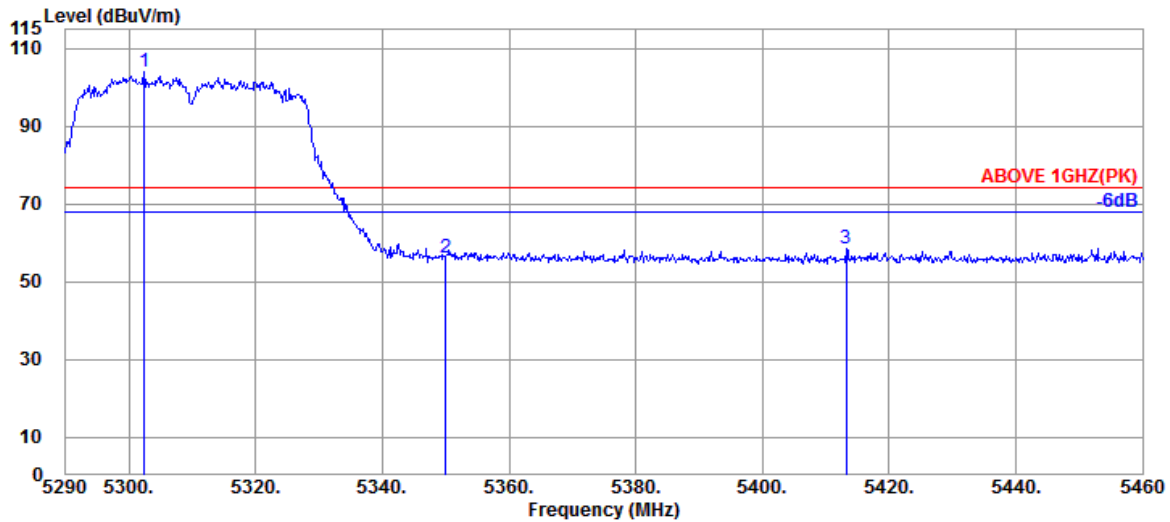


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5149.500	33.90	10.36	6.70	50.96	54.00	3.04	Average
5150.050	33.90	10.36	6.63	50.89	54.00	3.11	Average
@ 5178.980	34.02	10.38	54.31	98.71	---	---	Average

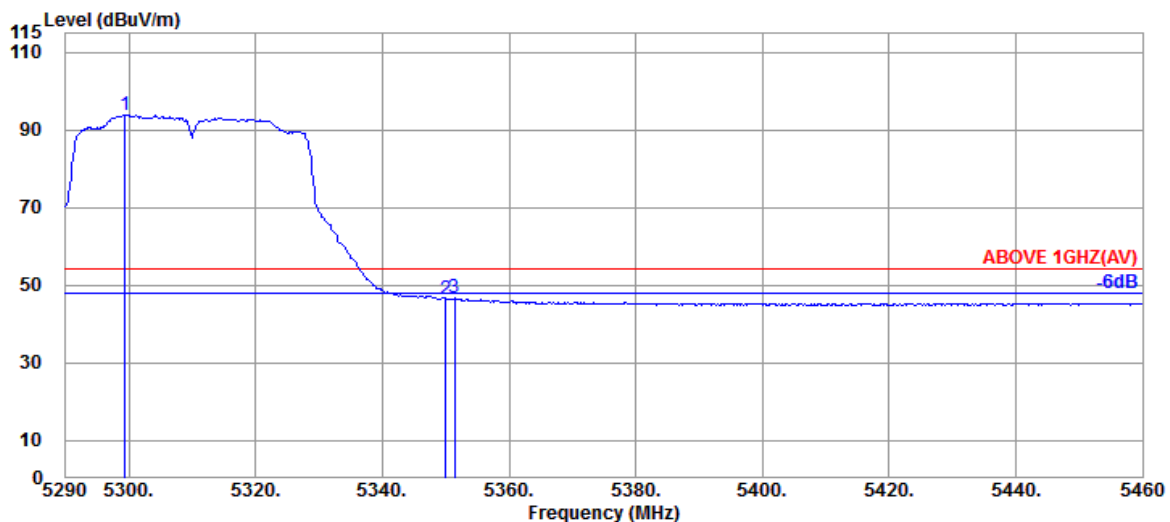
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT40	Band	NII-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
@	5302.410	34.50	10.45	58.91	103.86	---	---	Peak
	5350.010	34.50	10.48	11.08	56.06	74.00	17.94	Peak
	5413.250	34.50	10.51	13.62	58.63	74.00	15.37	Peak



Antenna at Horizontal Polarization

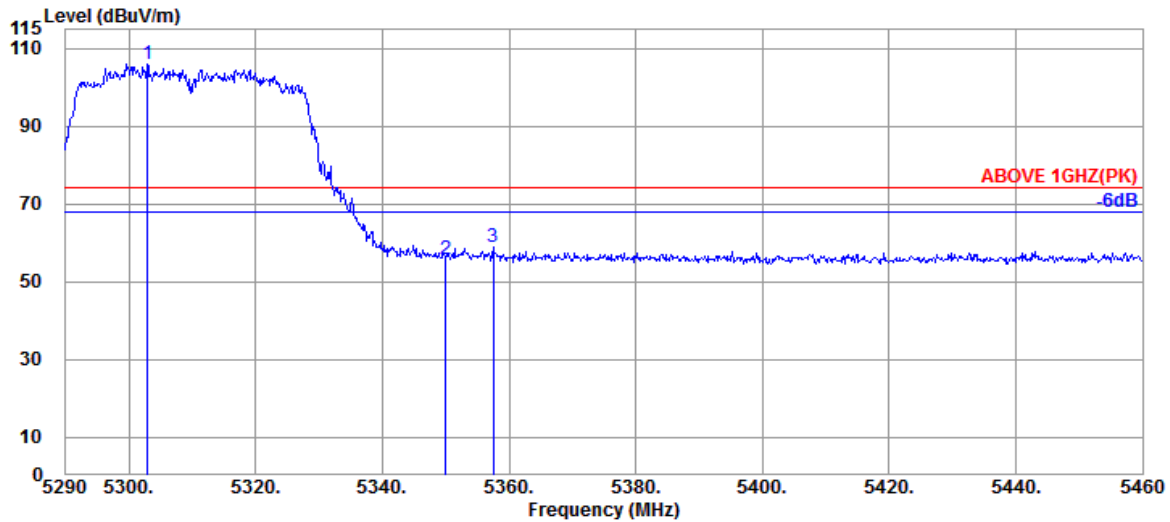
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5299.350	34.50	10.45	48.95	93.90	---	---	Average
	5350.010	34.50	10.48	1.48	46.46	54.00	7.54	Average
	5351.370	34.50	10.48	1.55	46.53	54.00	7.47	Average

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

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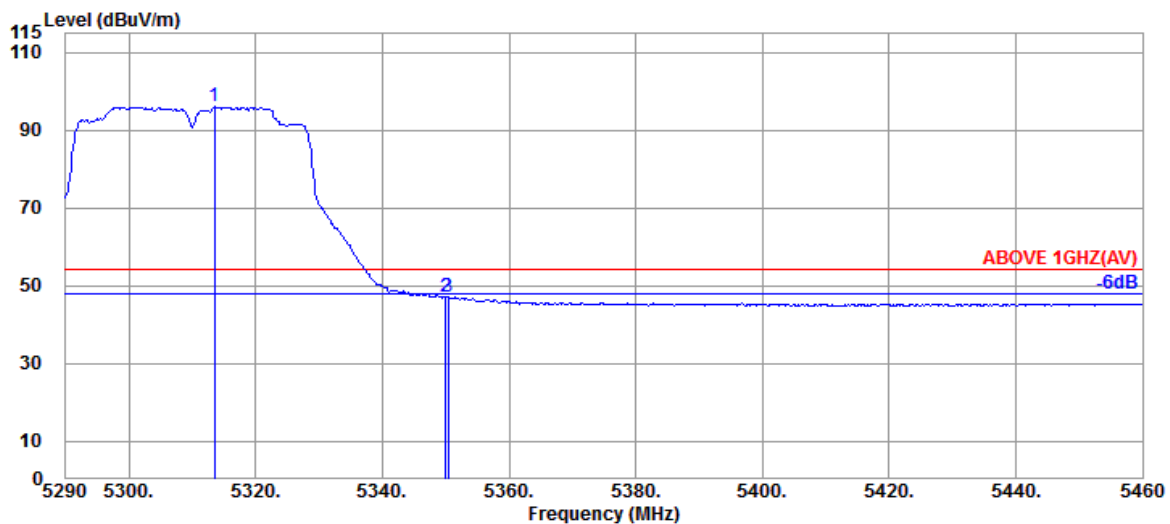
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Mode	802.11n-HT40	Band	NII-2A
		Frequency	TX 5310MHz



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
@	5302.920	34.50	10.45	61.16	106.11	---	---	Peak
	5350.010	34.50	10.48	10.66	55.64	74.00	18.36	Peak
	5357.490	34.50	10.48	13.94	58.92	74.00	15.08	Peak



Antenna at Vertical Polarization

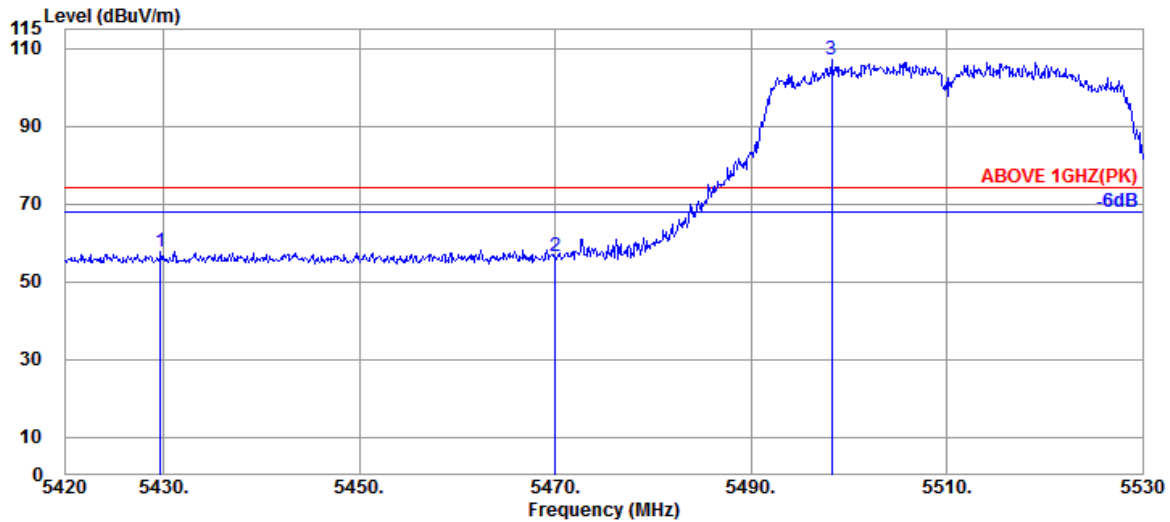
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5313.460	34.50	10.46	51.04	96.00	---	---	Average
	5350.010	34.50	10.48	2.10	47.08	54.00	6.92	Average
	5350.350	34.50	10.48	2.02	47.00	54.00	7.00	Average

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

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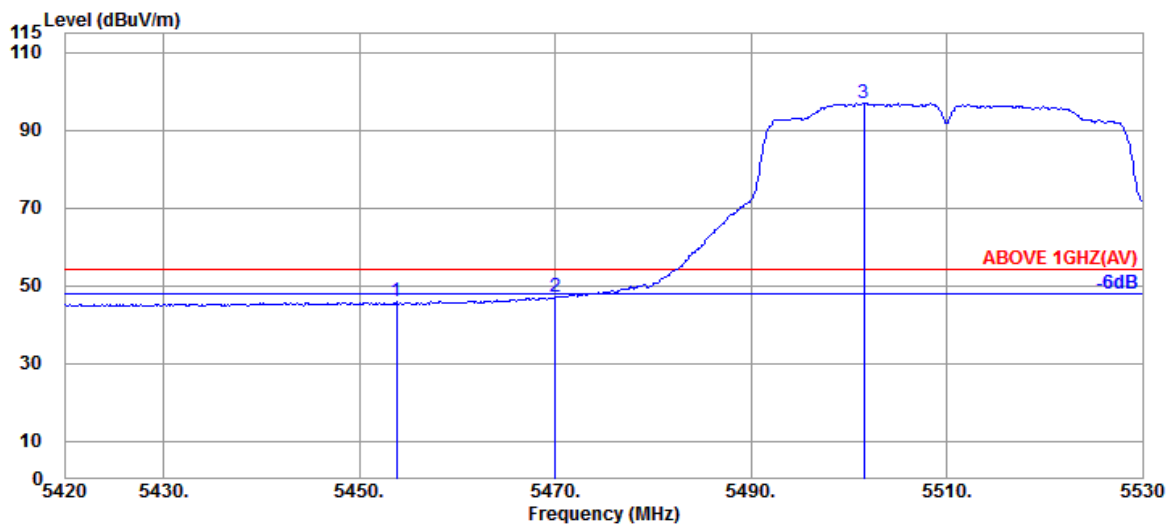
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Mode	802.11n-HT40	Band	NII-2C
		Frequency	TX 5510MHz



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
5429.680	34.50	10.52	12.80	57.82	74.00	16.18	Peak
5470.050	34.50	10.54	11.39	56.43	74.00	17.57	Peak
@ 5498.210	34.50	10.56	62.06	107.12	---	---	Peak



Antenna at Horizontal Polarization

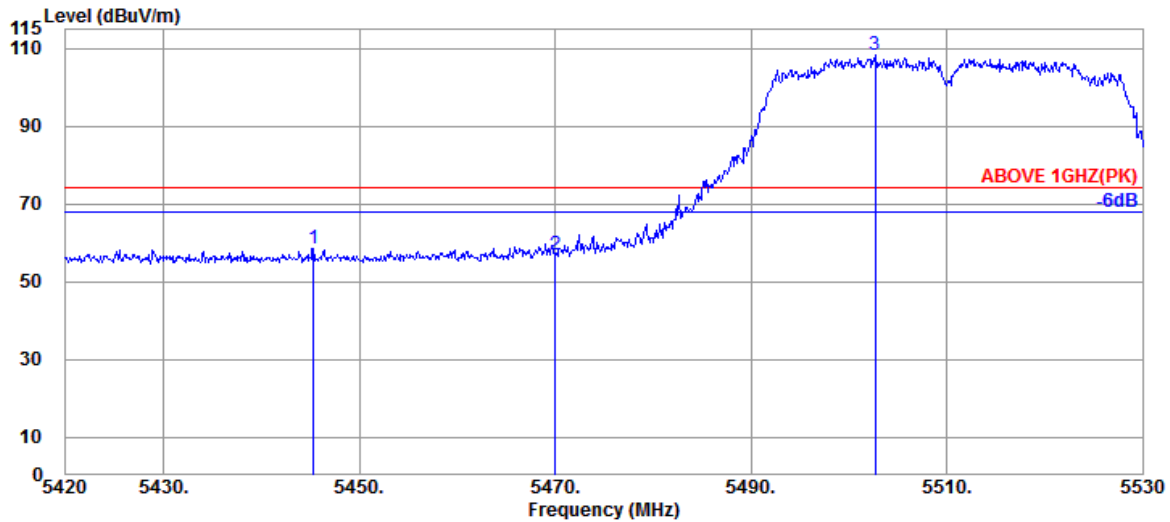
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5453.770	34.50	10.53	0.77	45.80	54.00	8.20	Average
5470.050	34.50	10.54	1.97	47.01	54.00	6.99	Average
@ 5501.510	34.50	10.56	51.78	96.84	---	---	Average

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

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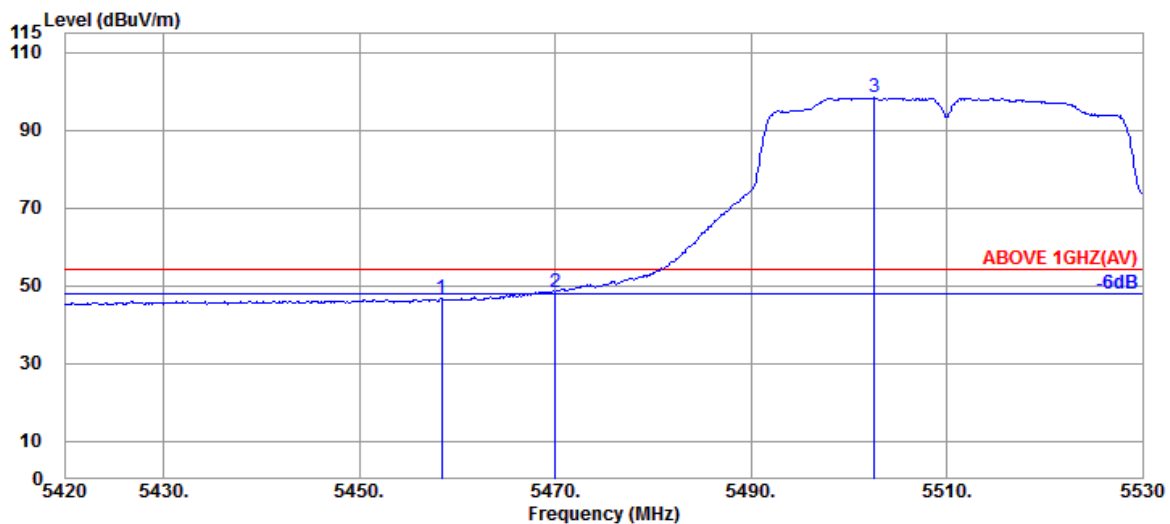
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Mode	802.11n-HT40	Band	NII-2C
		Frequency	TX 5510MHz



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
5445.300	34.50	10.52	13.56	58.58	74.00	15.42	Peak
5470.050	34.50	10.54	11.97	57.01	74.00	16.99	Peak
@ 5502.720	34.51	10.56	63.07	108.14	---	---	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
5458.390	34.50	10.53	1.72	46.75	54.00	7.25	Average
5470.050	34.50	10.54	3.34	48.38	54.00	5.62	Average
@ 5502.610	34.51	10.56	53.32	98.39	---	---	Average

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

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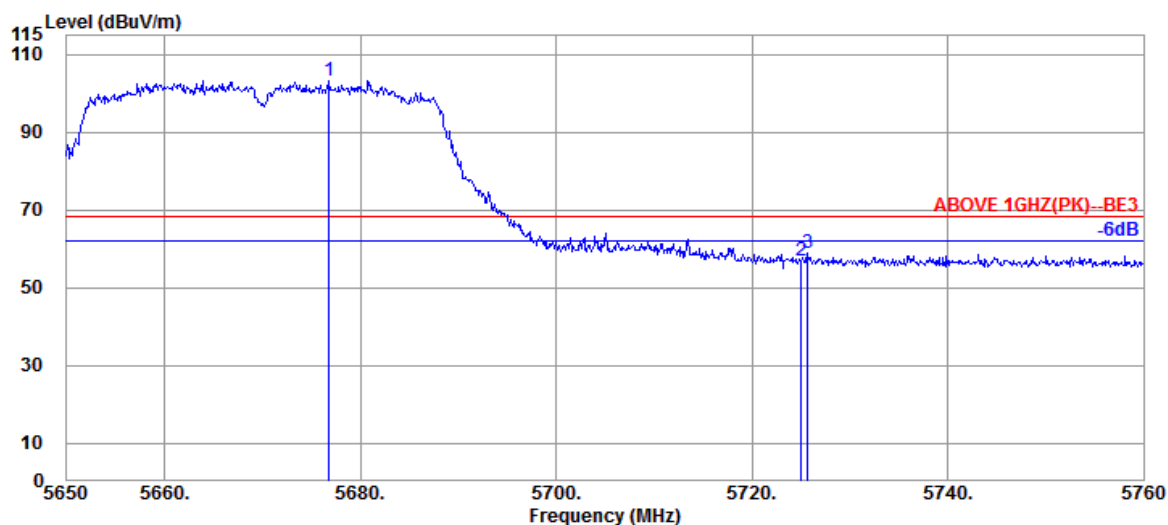
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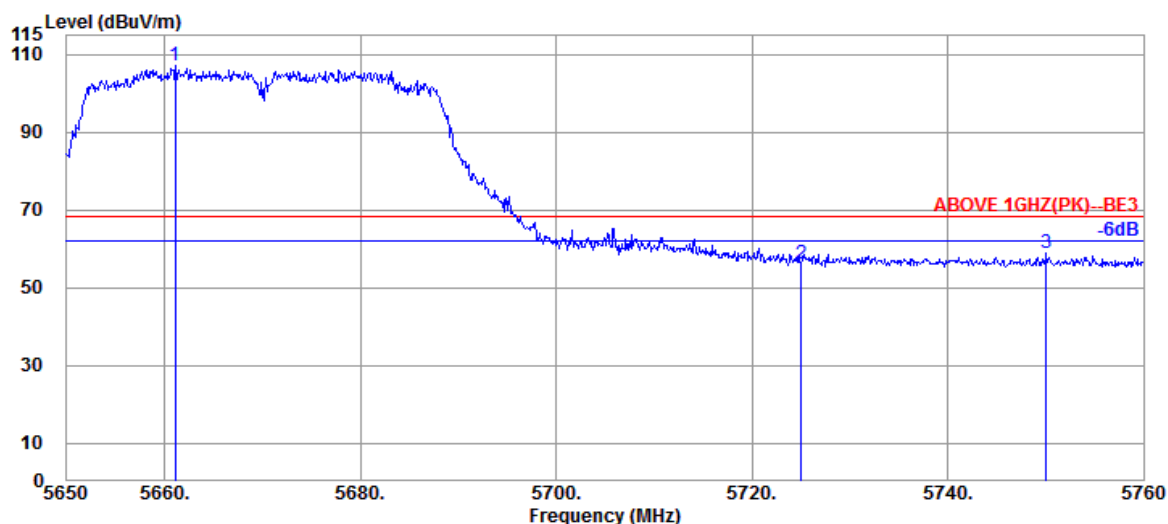
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Mode	802.11n-HT40	Band	NII-2C
		Frequency	TX 5670MHz



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5676.840	34.49	10.78	58.04	103.31	---	---	Peak
	5725.020	34.40	10.84	11.79	57.03	68.20	11.17	Peak
	5725.680	34.40	10.84	13.45	58.69	68.20	9.51	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
@	5661.110	34.56	10.76	62.00	107.32	---	---	Peak
	5725.020	34.40	10.84	10.79	56.03	68.20	12.17	Peak
	5750.100	34.40	10.86	13.47	58.73	68.20	9.47	Peak

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

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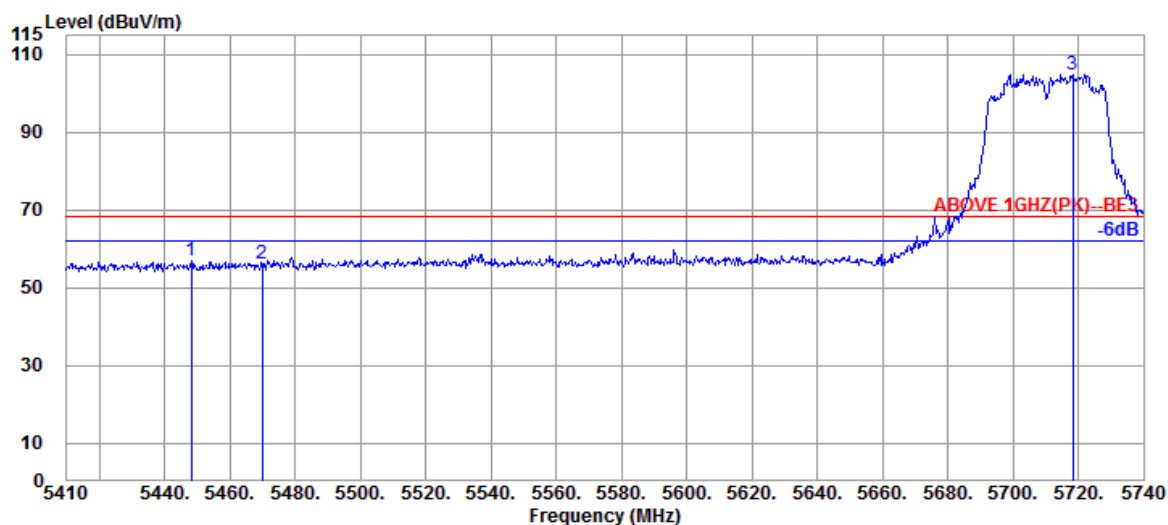
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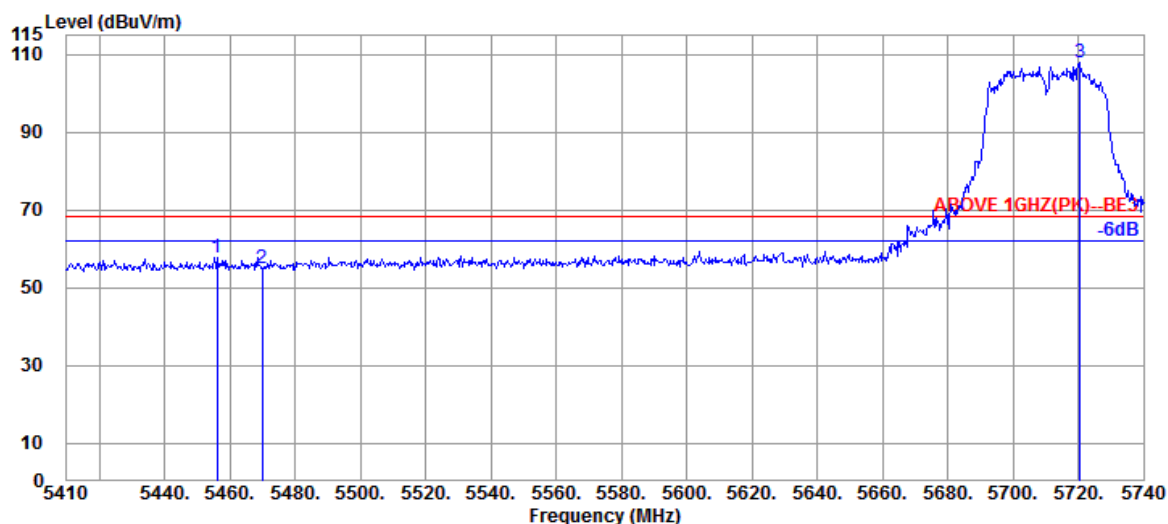
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Mode	802.11n-HT40	Band	NII-2C
		Frequency	TX 5710MHz



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
5448.280	34.50	10.53	11.91	56.94	68.20	11.26	Peak
5470.060	34.50	10.54	11.00	56.04	68.20	12.16	Peak
@ 5718.220	34.40	10.84	59.65	104.89	---	---	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
5456.200	34.50	10.53	12.71	57.74	68.20	10.46	Peak
5470.060	34.50	10.54	9.84	54.88	68.20	13.32	Peak
@ 5720.530	34.40	10.84	62.50	107.74	---	---	Peak

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

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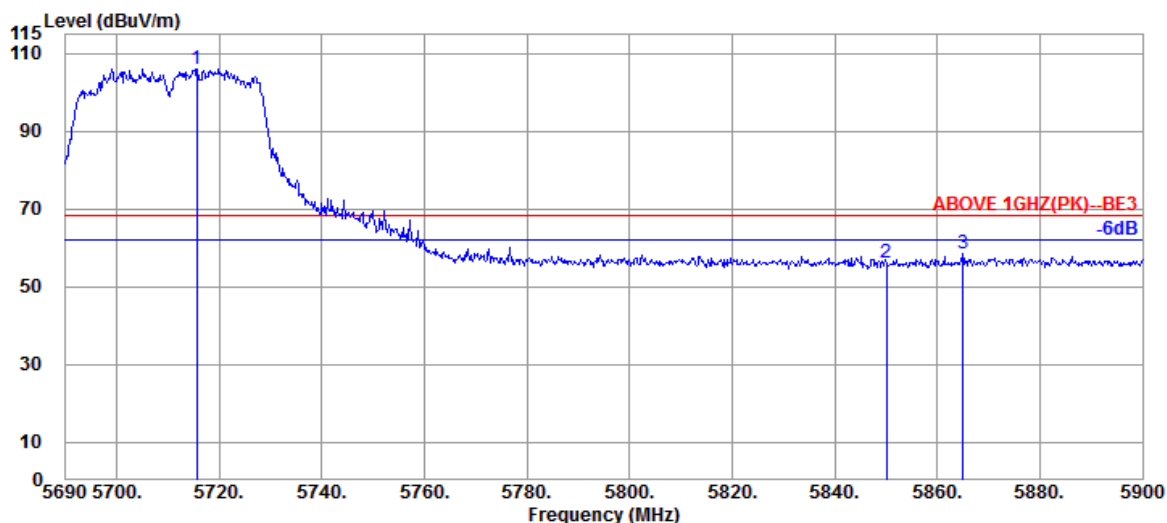
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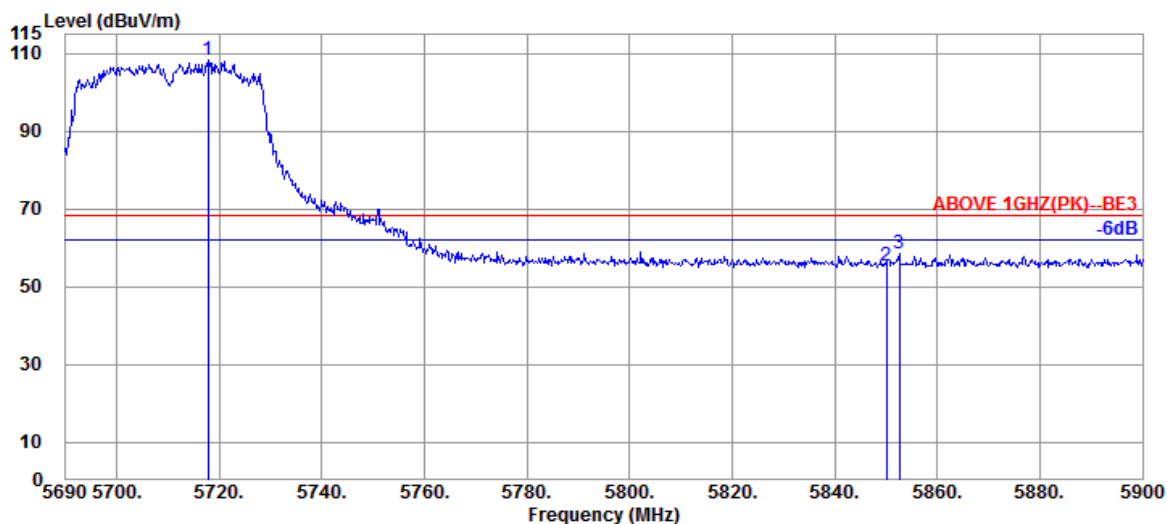
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Mode	802.11n-HT40	Band	NII-2C
		Frequency	TX 5710MHz



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
@	5715.620	34.40	10.82	60.77	105.99	---	---	Peak
	5850.020	34.40	10.99	10.92	56.31	68.20	11.89	Peak
	5864.930	34.43	11.02	13.01	58.46	68.20	9.74	Peak

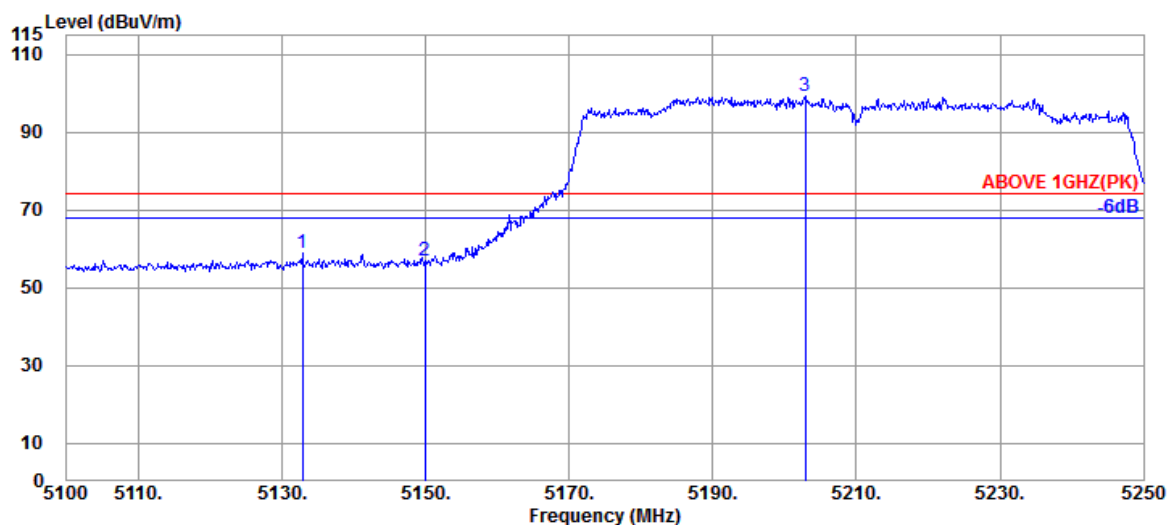


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5717.720	34.40	10.84	62.98	108.22	---	---	Peak
	5850.020	34.40	10.99	9.81	55.20	68.20	13.00	Peak
	5852.540	34.41	10.99	13.22	58.62	68.20	9.58	Peak

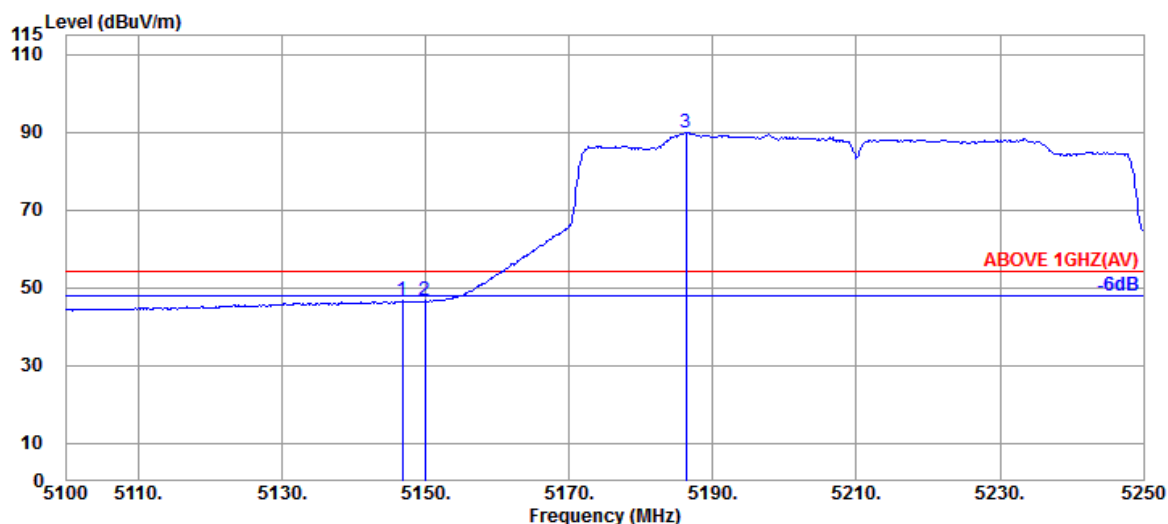
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ac-VHT80	Band	NII-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
5132.850	33.87	10.35	14.47	58.69	74.00	15.31	Peak
5149.950	33.90	10.36	12.60	56.86	74.00	17.14	Peak
@ 5202.900	34.12	10.39	54.78	99.29	---	---	Peak



Antenna at Horizontal Polarization

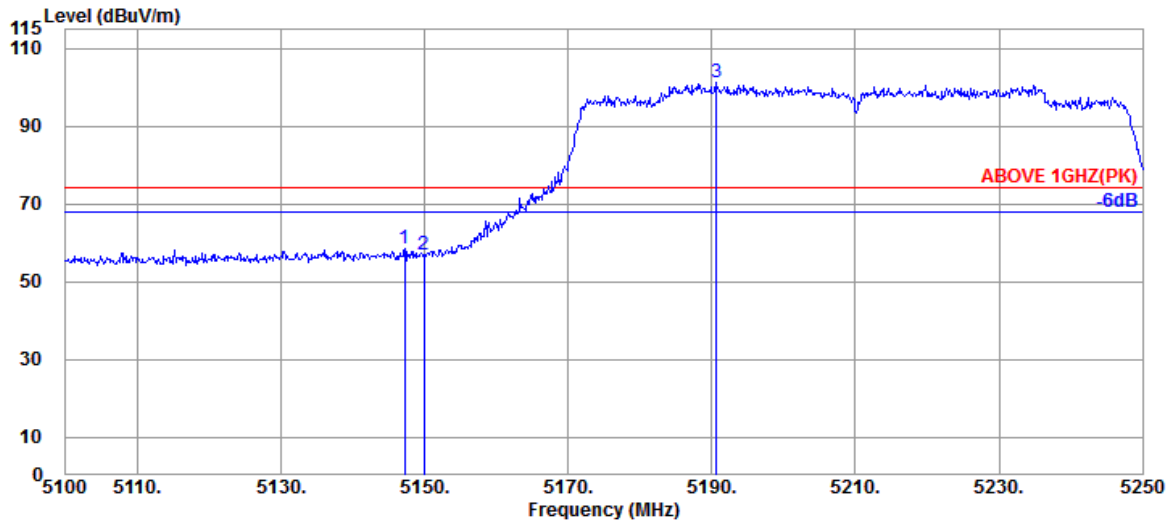
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5146.800	33.89	10.36	2.29	46.54	54.00	7.46	Average
5149.950	33.90	10.36	2.26	46.52	54.00	7.48	Average
@ 5186.250	34.04	10.38	45.57	89.99	---	---	Average

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

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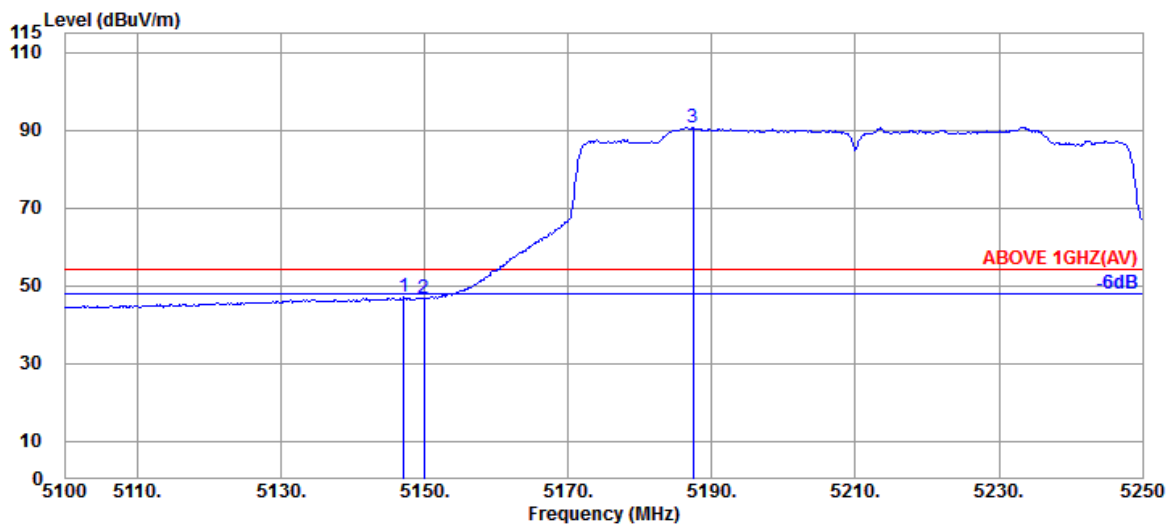
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Mode	802.11ac-VHT80	Band	NII-I
		Frequency	TX 5210MHz



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
5147.250	33.89	10.36	14.08	58.33	74.00	15.67	Peak
5149.950	33.90	10.36	12.81	57.07	74.00	16.93	Peak
@ 5190.600	34.06	10.39	56.66	101.11	---	---	Peak



Antenna at Vertical Polarization

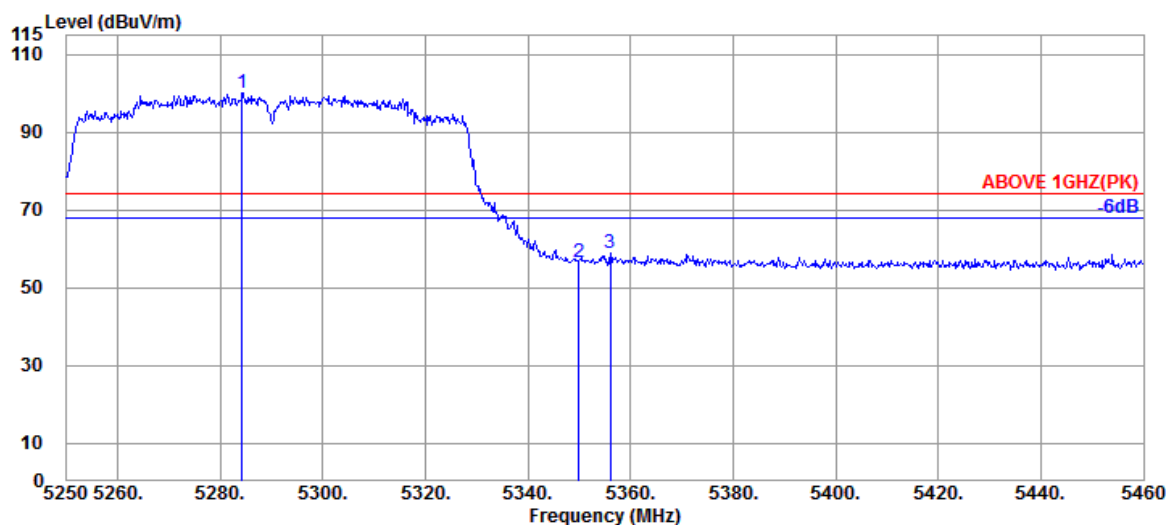
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.100	33.89	10.36	2.71	46.96	54.00	7.04	Average
5149.950	33.90	10.36	2.48	46.74	54.00	7.26	Average
@ 5187.450	34.05	10.38	46.27	90.70	---	---	Average

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

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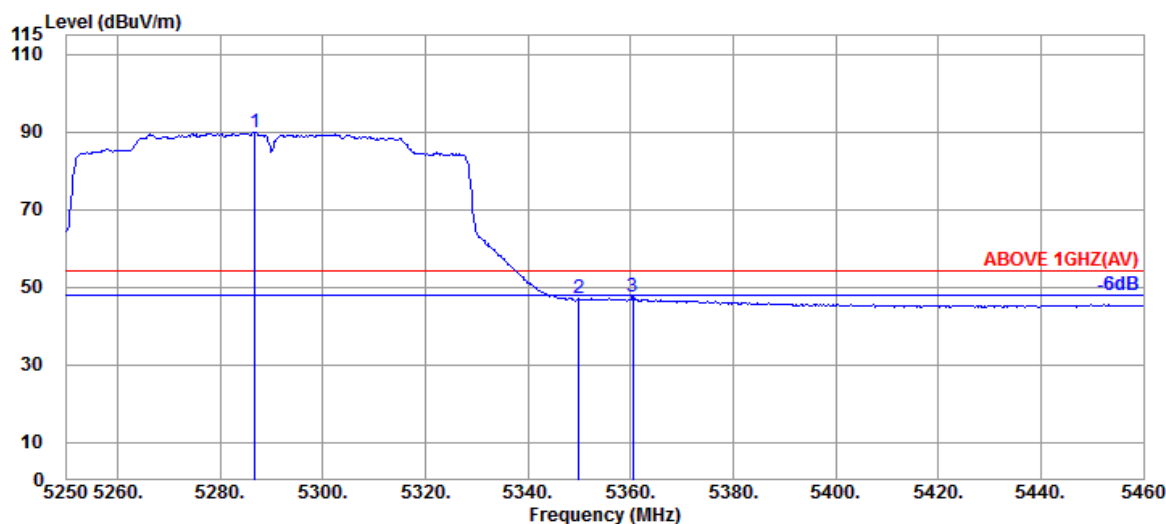
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Mode	802.11ac-VHT80	Band	NII-2A
		Frequency	TX 5290MHz



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	5284.230	34.47	10.44	55.24	100.15	---	---	Peak
	5349.960	34.50	10.48	11.37	56.35	74.00	17.65	Peak
	5356.050	34.50	10.48	13.88	58.86	74.00	15.14	Peak



Antenna at Horizontal Polarization

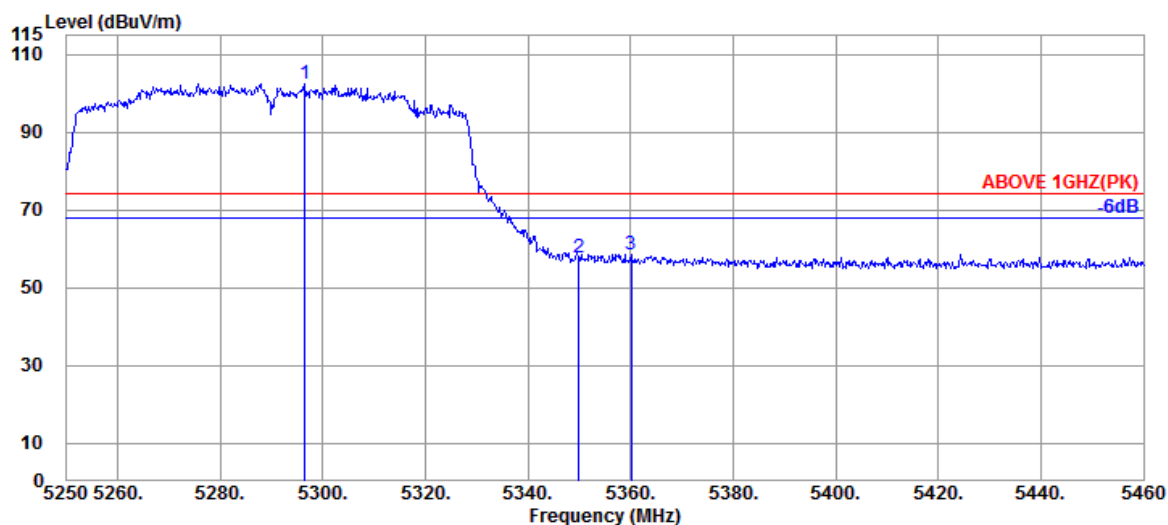
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@	5286.750	34.47	10.44	45.01	89.92	---	---	Average
	5349.960	34.50	10.48	1.97	46.95	54.00	7.05	Average
	5360.460	34.50	10.48	2.37	47.35	54.00	6.65	Average

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

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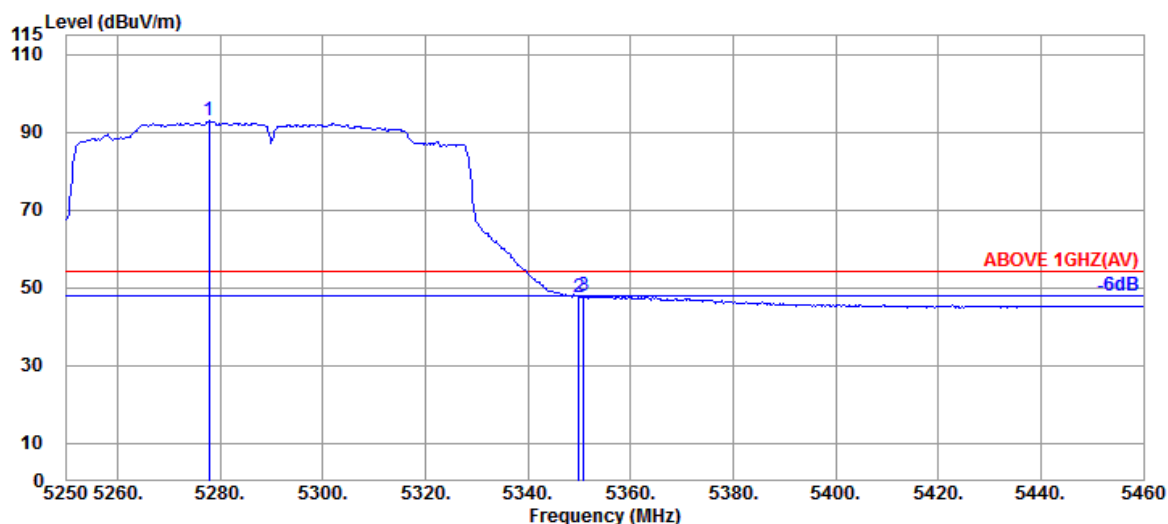
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Mode	802.11ac-VHT80	Band	NII-2A
		Frequency	TX 5290MHz



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
@	5296.410	34.49	10.45	57.59	102.53	---	---	Peak
	5349.960	34.50	10.48	12.62	57.60	74.00	16.40	Peak
	5360.040	34.50	10.48	13.58	58.56	74.00	15.44	Peak



Antenna at Vertical Polarization

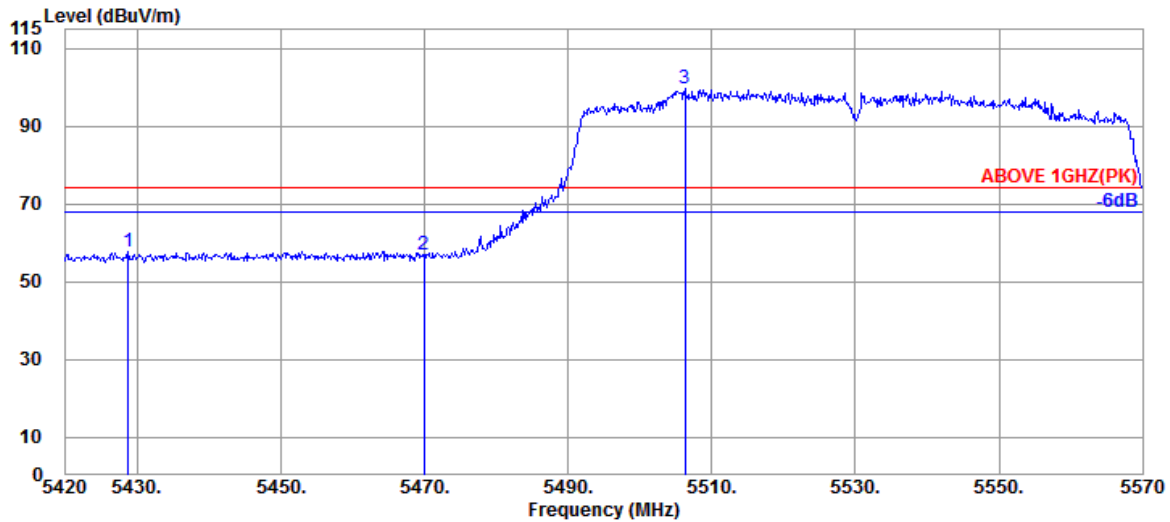
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@	5277.720	34.46	10.44	48.03	92.93	---	---	Average
	5349.960	34.50	10.48	2.47	47.45	54.00	6.55	Average
	5350.800	34.50	10.48	2.88	47.86	54.00	6.14	Average

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

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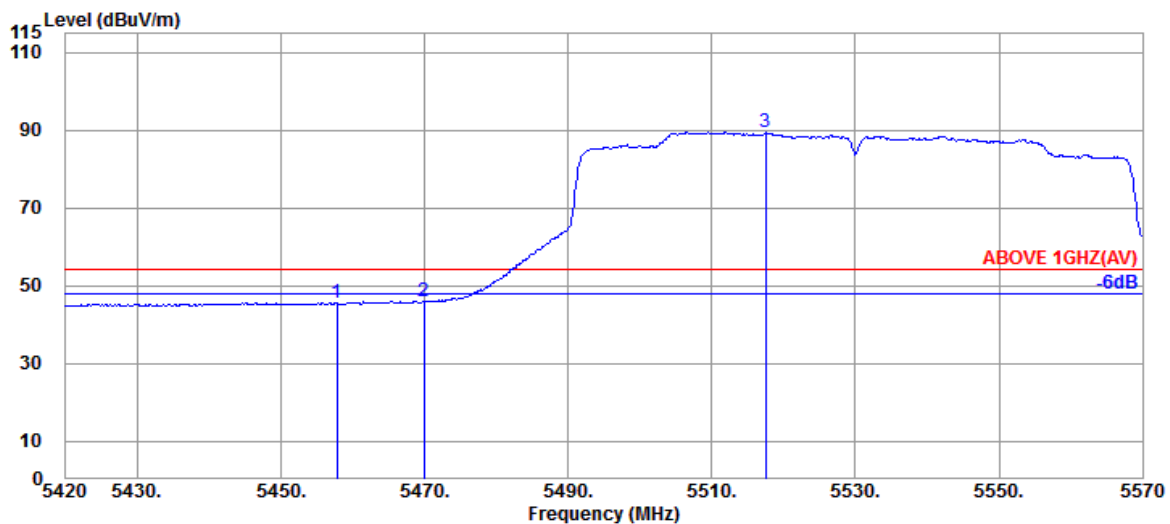
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Mode	802.11ac-VHT80	Band	NII-2C
		Frequency	TX 5530MHz



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
5428.700	34.50	10.52	12.85	57.87	74.00	16.13	Peak
5469.950	34.50	10.54	11.89	56.93	74.00	17.07	Peak
@ 5506.250	34.51	10.56	54.44	99.51	---	---	Peak

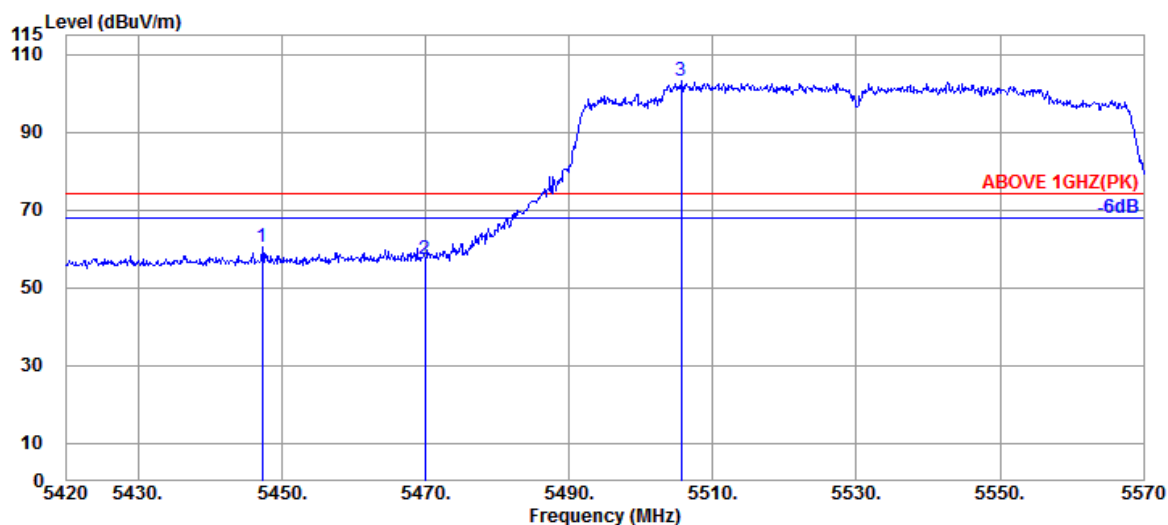


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5457.800	34.50	10.53	0.47	45.50	54.00	8.50	Average
5469.950	34.50	10.54	0.82	45.86	54.00	8.14	Average
@ 5517.500	34.53	10.58	44.30	89.41	---	---	Average

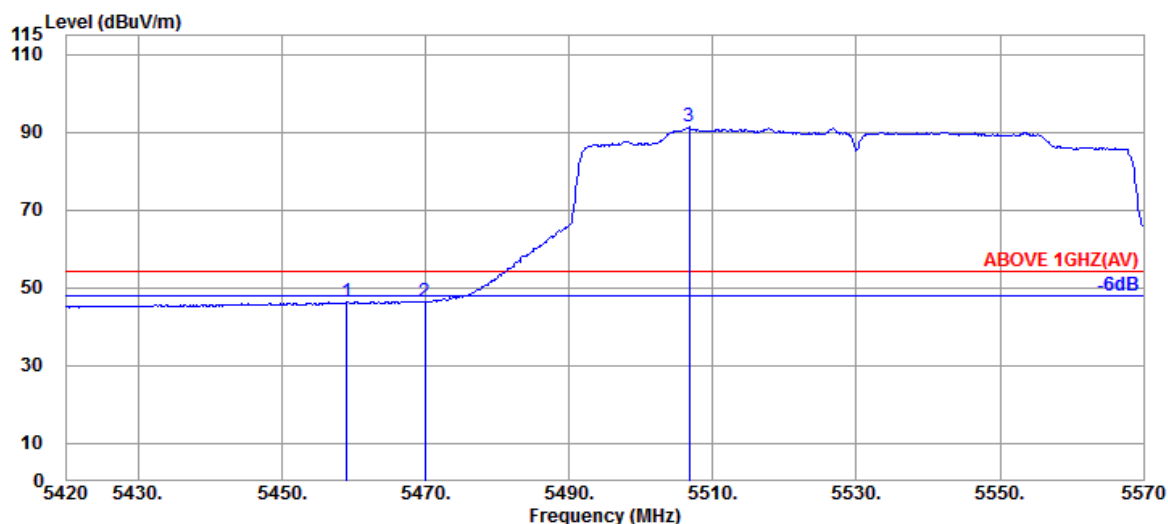
Remark: The “@” means fundamental frequency, it is ignored in this section.

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



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5447.300	34.50	10.53	15.51	60.54	74.00	13.46	Peak
5469.950	34.50	10.54	12.23	57.27	74.00	16.73	Peak
@ 5505.650	34.51	10.56	58.30	103.37	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5459.000	34.50	10.53	1.28	46.31	54.00	7.69	Average
5469.950	34.50	10.54	1.36	46.40	54.00	7.60	Average
@ 5506.700	34.51	10.56	46.26	91.33	---	---	Average

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

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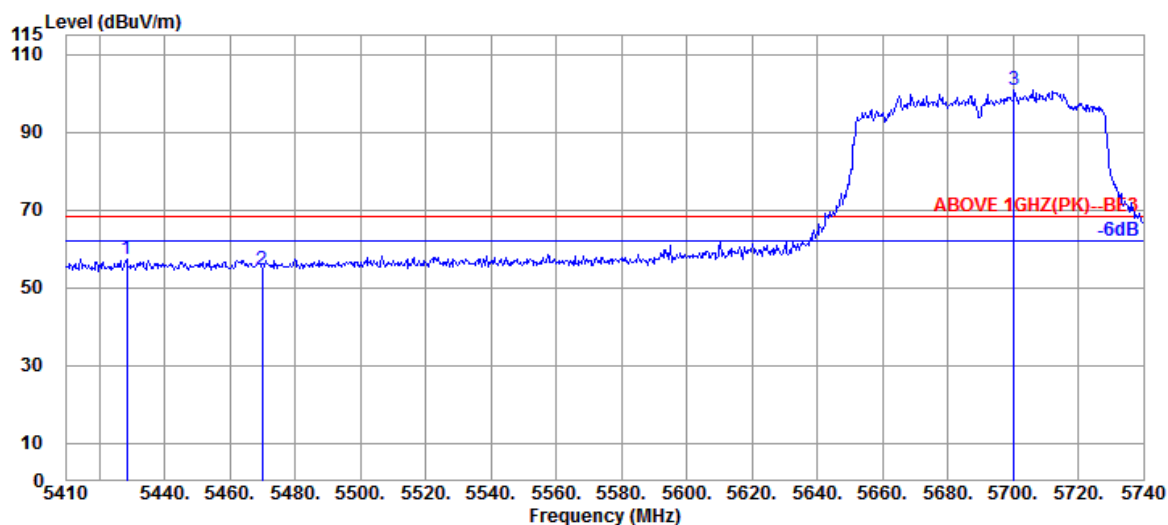
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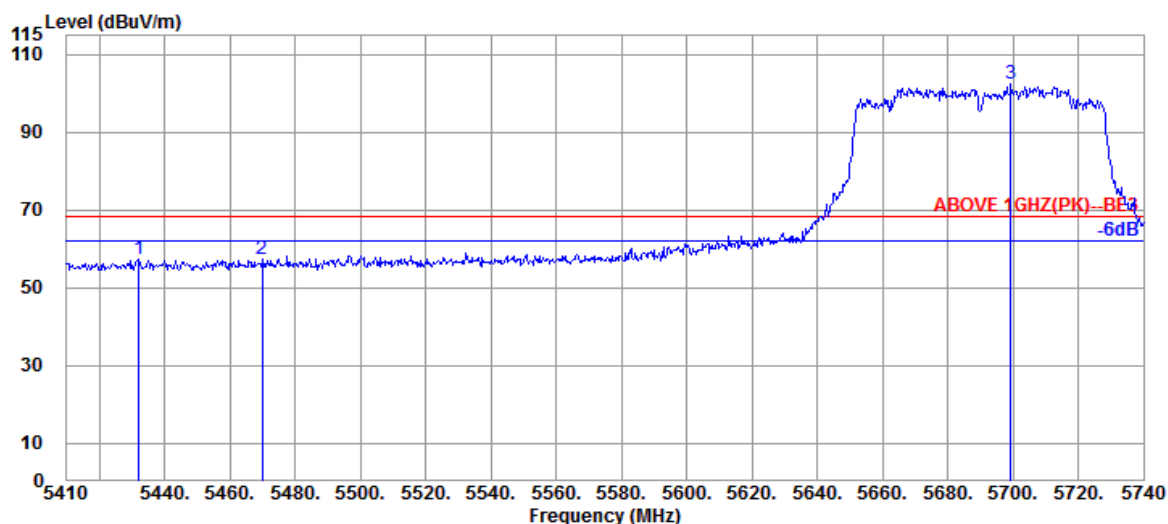
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Mode	802.11ac-VHT80	Band	NII-2C
		Frequency	TX 5690MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5428.480	34.50	10.51	12.43	57.44	68.20	10.76	Peak
5470.060	34.50	10.54	9.69	54.73	68.20	13.47	Peak
@ 5700.400	34.40	10.80	55.57	100.77	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5432.110	34.50	10.52	12.11	57.13	68.20	11.07	Peak
5470.060	34.50	10.54	12.20	57.24	68.20	10.96	Peak
@ 5699.410	34.40	10.80	57.08	102.28	---	---	Peak

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

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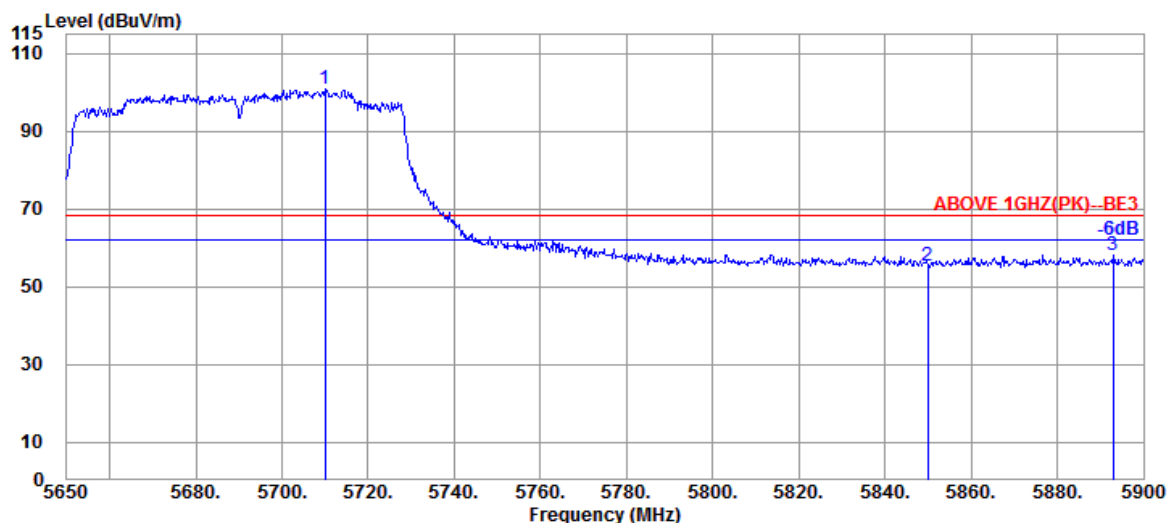
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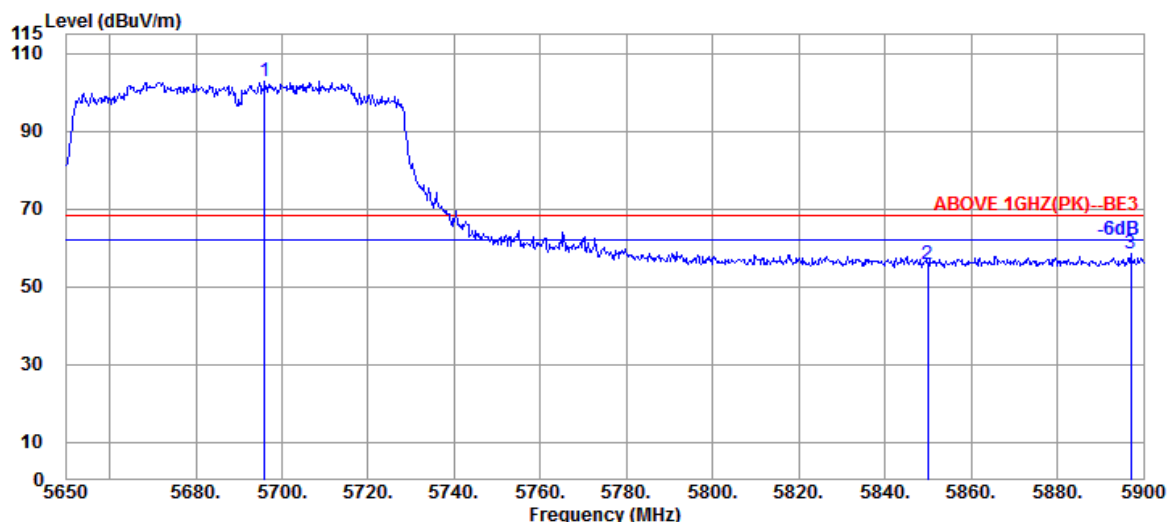
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Mode	802.11ac-VHT80	Band	NII-2C
		Frequency	TX 5690MHz



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
@	5710.000	34.40	10.82	55.66	100.88	---	---	Peak
	5850.000	34.40	10.99	10.14	55.53	68.20	12.67	Peak
	5893.000	34.49	11.06	12.58	58.13	68.20	10.07	Peak



Antenna at Vertical Polarization

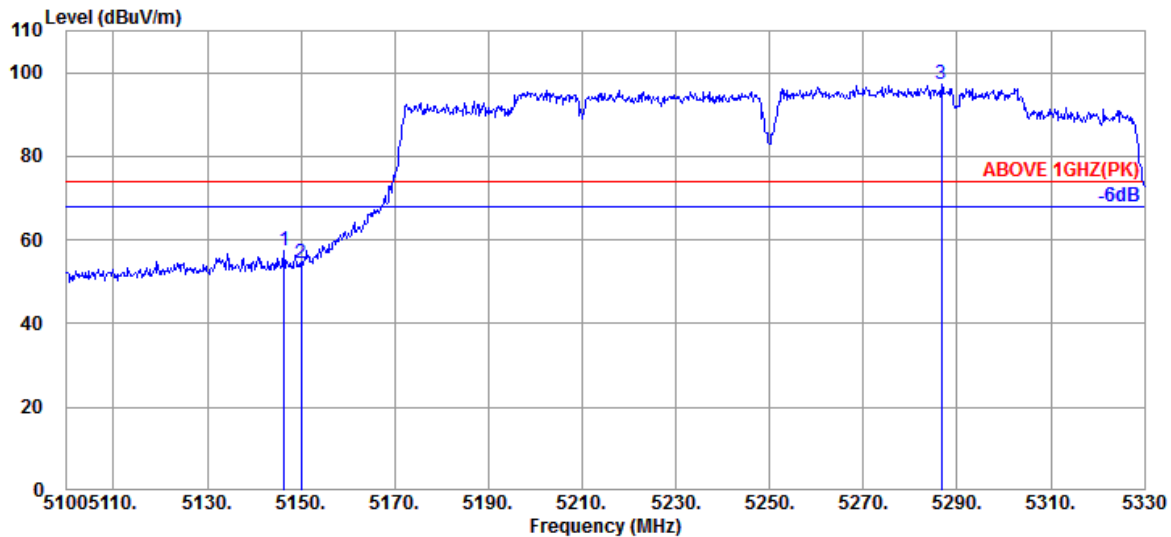
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@	5696.000	34.42	10.80	57.66	102.88	---	---	Peak
	5850.000	34.40	10.99	10.48	55.87	68.20	12.33	Peak
	5897.000	34.49	11.06	12.82	58.37	68.20	9.83	Peak

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

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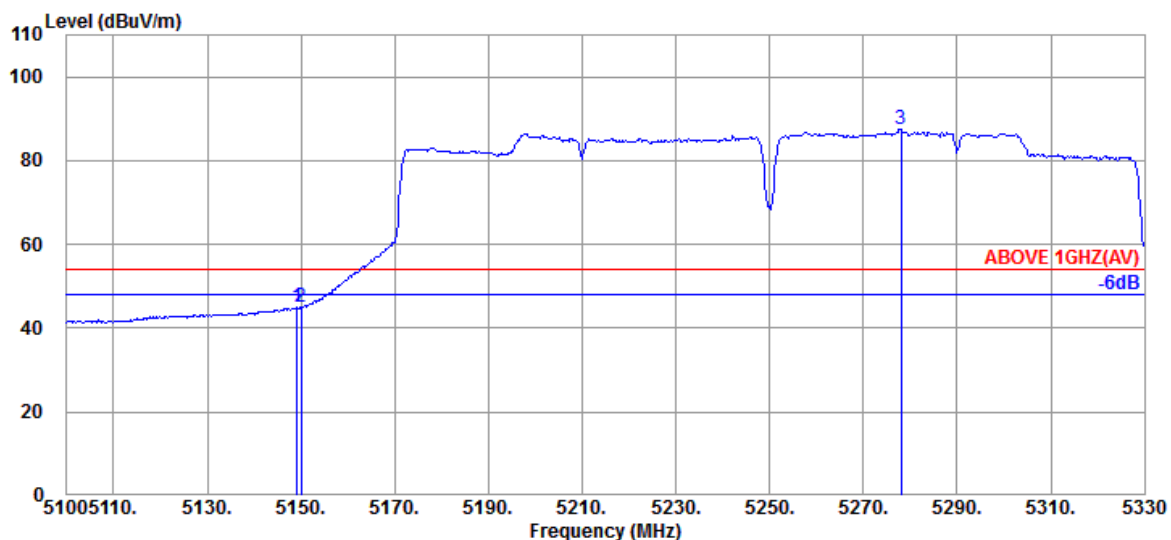
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Mode	802.11ac-VH160	Band	NII-I & NII-2A
		Frequency	TX 5250MHz



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
5146.460	33.89	10.36	13.24	57.49	74.00	16.51	Peak
5150.000	33.90	10.36	10.18	54.44	74.00	19.56	Peak
@ 5286.760	34.47	10.44	52.23	97.14	---	---	Peak



Antenna at Horizontal Polarization

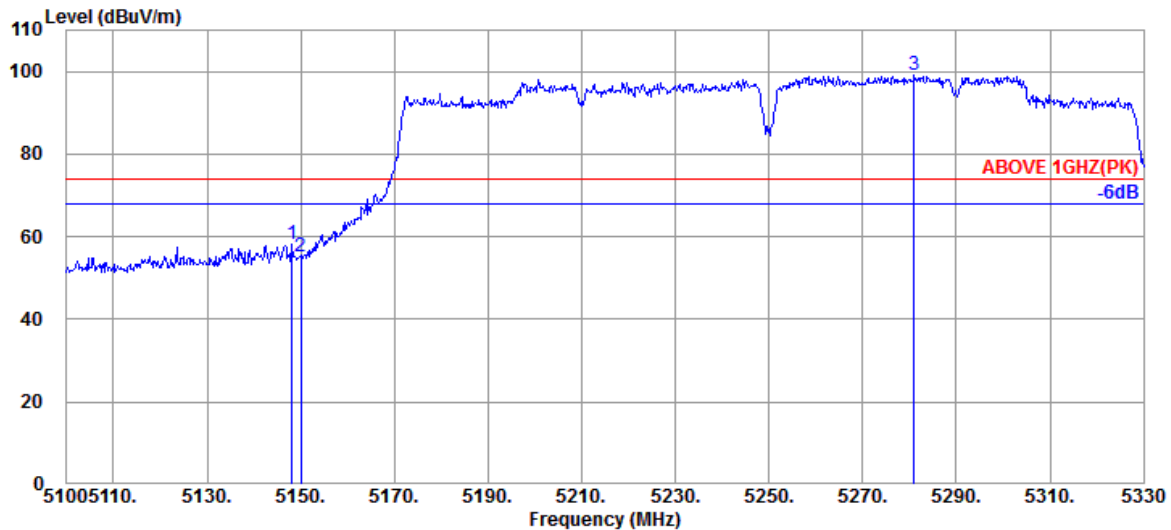
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.220	33.90	10.36	0.65	44.91	54.00	9.09	Average
5150.000	33.90	10.36	0.88	45.14	54.00	8.86	Average
@ 5278.020	34.46	10.44	42.51	87.41	---	---	Average

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

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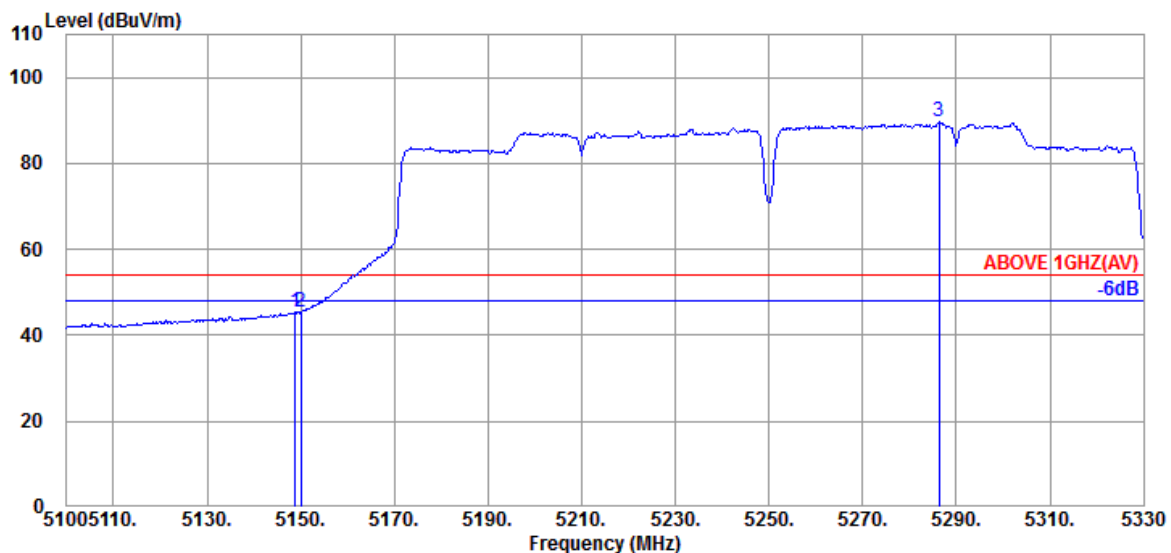
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Mode	802.11ac-VH160	Band	NII-I & NII-2A
		Frequency	TX 5250MHz



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
5148.070	33.90	10.36	14.09	58.35	74.00	15.65	Peak
5150.000	33.90	10.36	11.06	55.32	74.00	18.68	Peak
@ 5281.010	34.46	10.44	54.33	99.23	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.760	33.90	10.36	1.06	45.32	54.00	8.68	Average
5150.000	33.90	10.36	1.18	45.44	54.00	8.56	Average
@ 5286.300	34.47	10.44	44.77	89.68	---	---	Average

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

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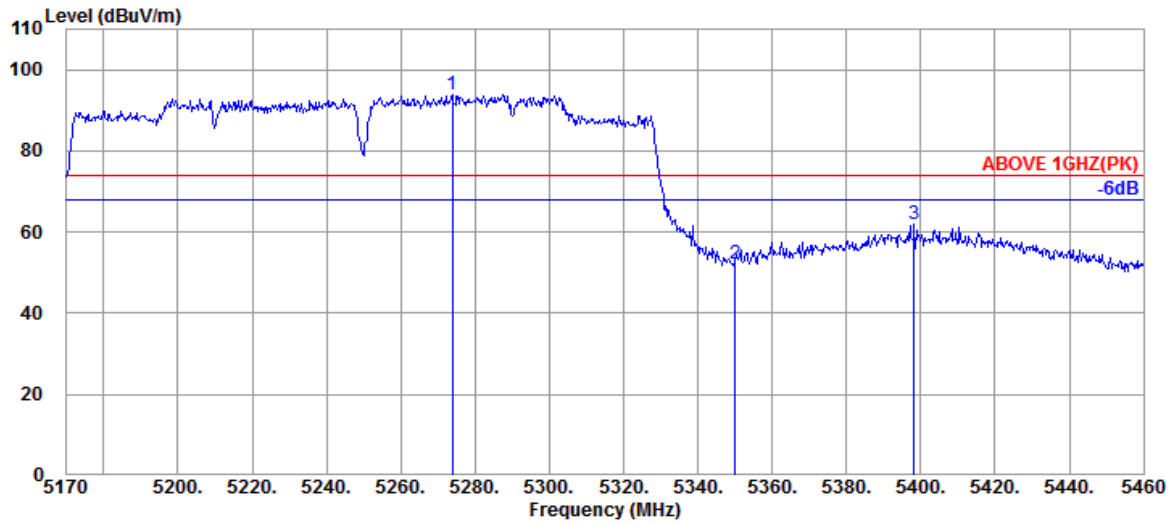
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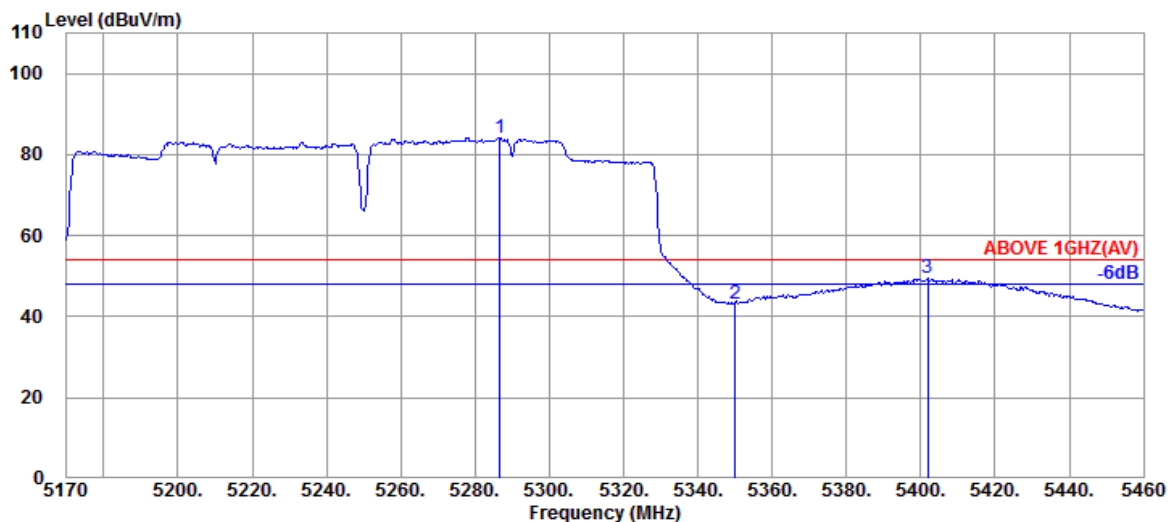
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Mode	802.11ac-VH160	Band	NII-I & NII-2A
		Frequency	TX 5250MHz



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
@	5273.820	34.45	10.43	49.13	94.01	---	---	Peak
	5350.090	34.50	10.48	7.24	52.22	74.00	21.78	Peak
	5398.230	34.50	10.50	16.96	61.96	74.00	12.04	Peak



Antenna at Horizontal Polarization

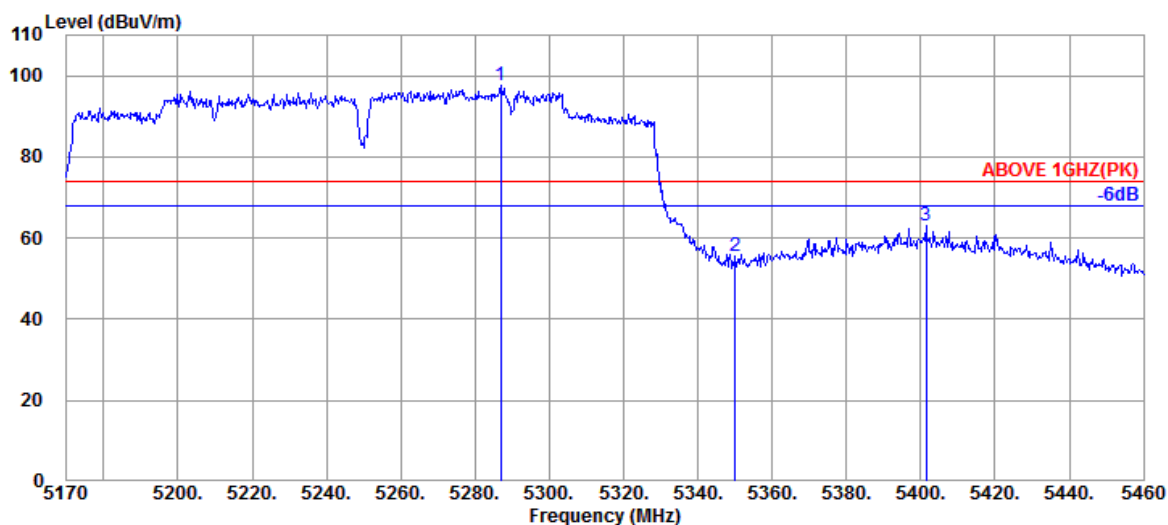
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5286.580	34.47	10.44	39.36	84.27	---	---	Average
	5350.090	34.50	10.48	-1.75	43.23	54.00	10.77	Average
	5402.000	34.50	10.50	4.38	49.38	54.00	4.62	Average

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

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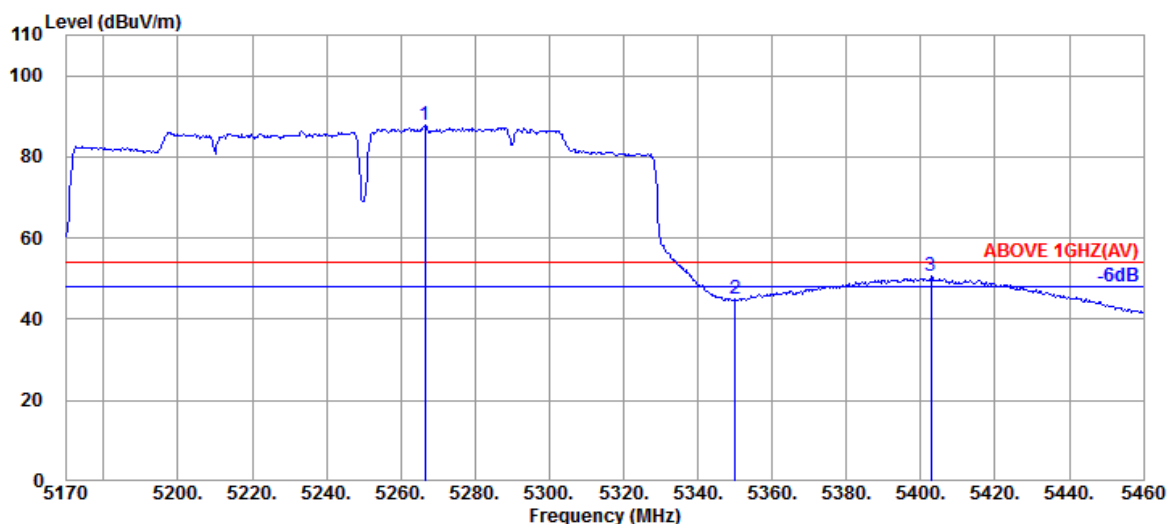
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Mode	802.11ac-VH160	Band	NII-I & NII-2A
		Frequency	TX 5250MHz



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
@	5286.870	34.47	10.44	52.89	97.80	---	---	Peak
	5350.090	34.50	10.48	10.41	55.39	74.00	18.61	Peak
	5401.420	34.50	10.50	17.97	62.97	74.00	11.03	Peak



Antenna at Vertical Polarization

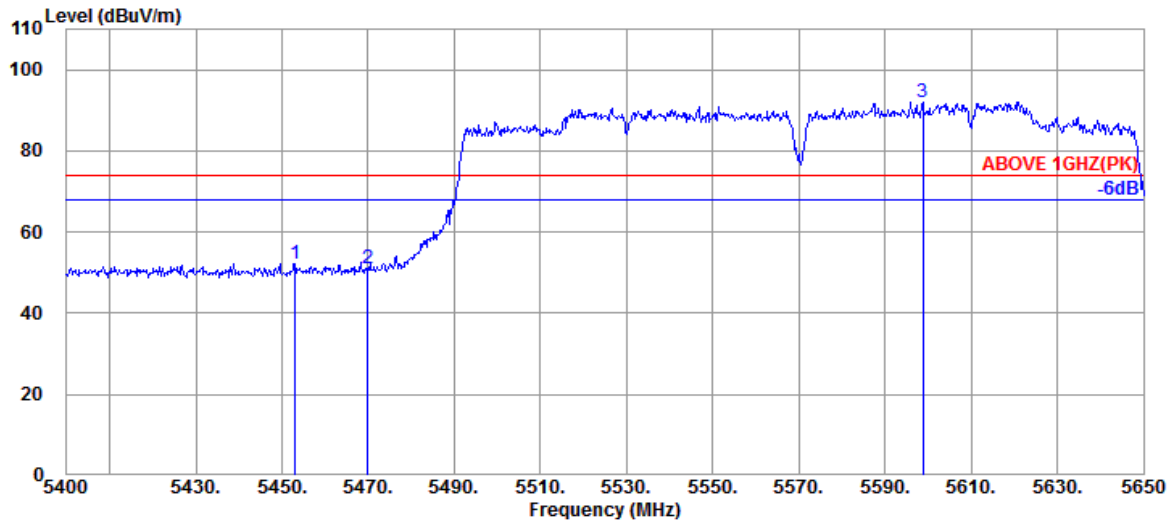
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5266.570	34.43	10.43	42.85	87.71	---	---	Average
	5350.090	34.50	10.48	0.08	45.06	54.00	8.94	Average
	5402.870	34.50	10.50	5.51	50.51	54.00	3.49	Average

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

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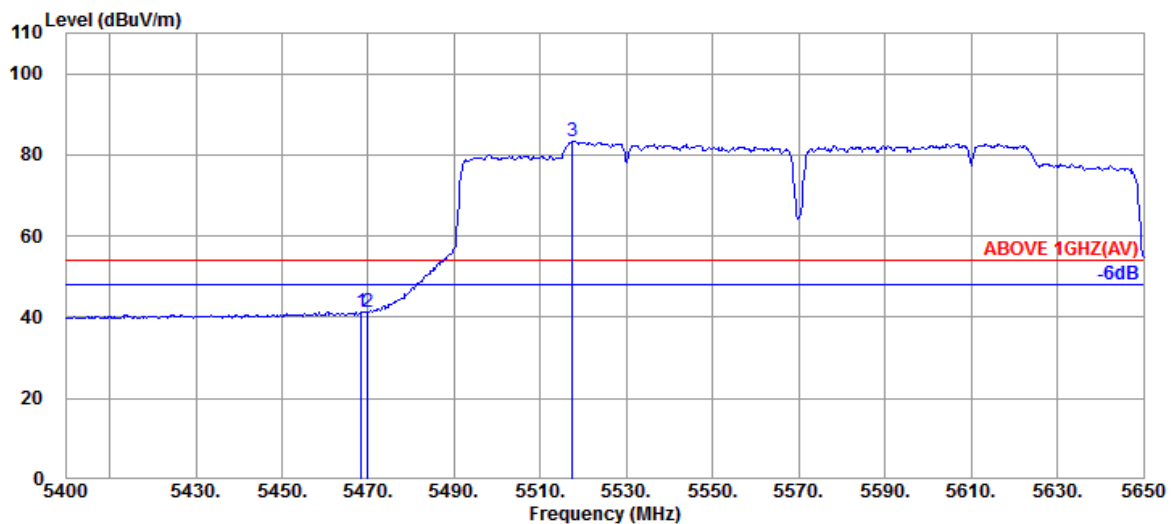
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Mode	802.11ac-VHT160	Band	NII-2C
		Frequency	TX 5570MHz



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
5453.000	34.50	10.53	7.32	52.35	74.00	21.65	Peak
5470.000	34.50	10.54	5.92	50.96	74.00	23.04	Peak
@ 5598.750	34.70	10.69	46.77	92.16	---	---	Peak



Antenna at Horizontal Polarization

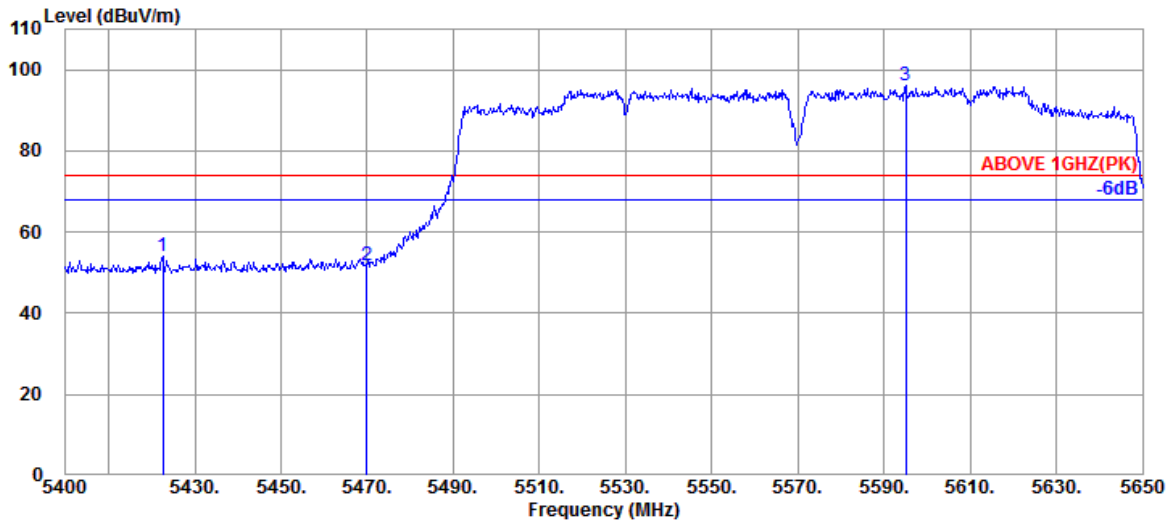
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5468.500	34.50	10.54	-3.61	41.43	54.00	12.57	Average
5470.000	34.50	10.54	-3.64	41.40	54.00	12.60	Average
@ 5517.500	34.53	10.58	38.26	83.37	---	---	Average

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

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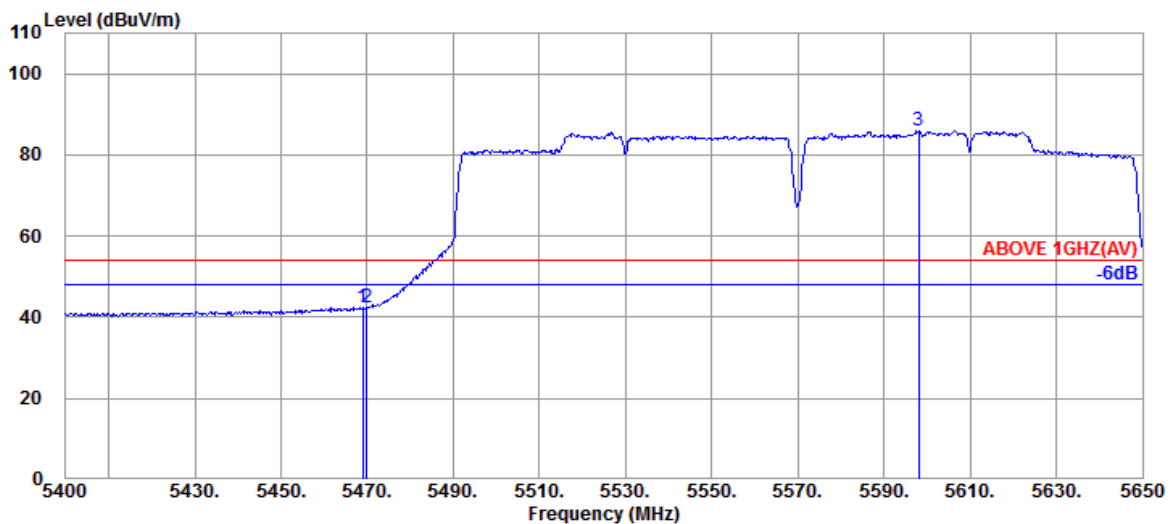
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Mode	802.11ac-VHT160	Band	NII-2C
		Frequency	TX 5570MHz



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
5422.500	34.50	10.51	9.06	54.07	74.00	19.93	Peak
5470.000	34.50	10.54	6.95	51.99	74.00	22.01	Peak
@ 5595.000	34.69	10.67	50.63	95.99	---	---	Peak

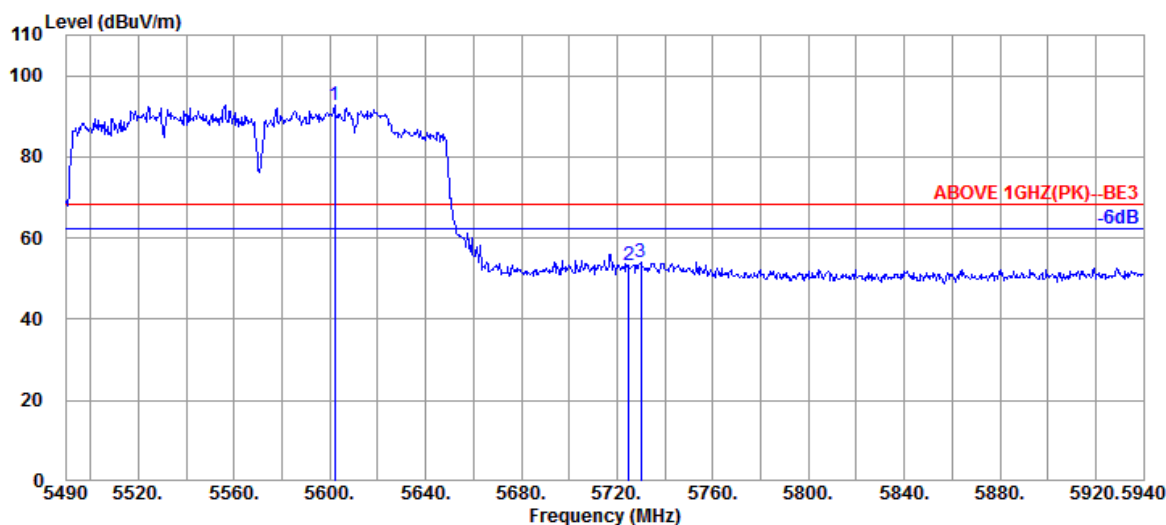


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.000	34.50	10.54	-2.75	42.29	54.00	11.71	Average
5470.000	34.50	10.54	-2.67	42.37	54.00	11.63	Average
@ 5598.000	34.70	10.67	40.64	86.01	---	---	Average

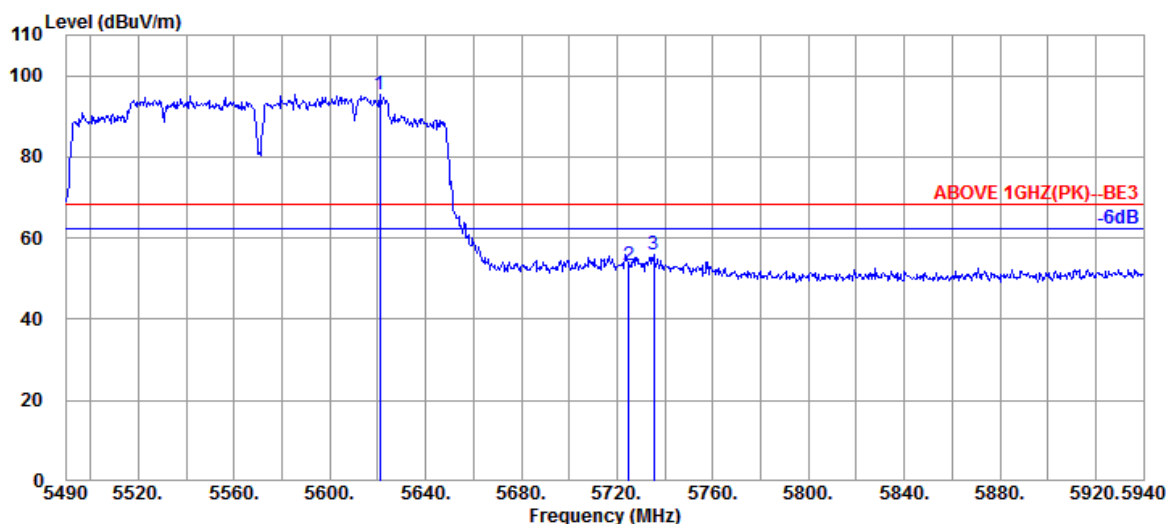
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ac-VH160	Band	NII-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
@	5602.050	34.70	10.69	47.29	92.68	---	---	Peak
	5724.900	34.40	10.84	8.05	53.29	68.20	14.91	Peak
	5729.850	34.40	10.84	8.93	54.17	68.20	14.03	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
@	5620.950	34.66	10.71	50.06	95.43	---	---	Peak
	5724.900	34.40	10.84	7.90	53.14	68.20	15.06	Peak
	5735.250	34.40	10.86	10.53	55.79	68.20	12.41	Peak

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