TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.:	RFBGSN-WTW-P22060933-1
FCC ID:	I4L-GRAX66
Model No.:	GRAX66
Received Date:	2022/6/27
Test Date:	2022/7/11 ~ 2022/8/24
Issued Date:	2022/10/07
Applicant:	Micro-Star International Co., Ltd.
Address:	No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Approved by: Jeremy . Lin , **Date:** 2022/10/07

Jeremy Lin / Project Engineer

This test report consists of 264 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Polly Chien / Specialist

Table of Contents

Release Control Record **4**

1 Certificate **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 6
2.2 Supplementary Information 6

3 General Information **7**

3.1 General Description of EUT 7
3.2 Antenna Description of EUT 9
3.3 Channel List 10
3.4 Test Mode Applicability and Tested Channel Detail 12
3.5 Duty Cycle of Test Signal 16
3.6 Test Program Used and Operation Descriptions 21
3.7 Connection Diagram of EUT and Peripheral Devices 21
3.8 Configuration of Peripheral Devices and Cable Connections 21

4 Test Instruments **22**

4.1 26 dB Bandwidth 22
4.2 RF Output Power 22
4.3 Power Spectral Density 22
4.4 6 dB Bandwidth 22
4.5 Occupied Bandwidth 23
4.6 Frequency Stability 23
4.7 AC Power Conducted Emissions 23
4.8 Unwanted Emissions below 1 GHz 24
4.9 Unwanted Emissions above 1 GHz 25

5 Limits of Test Items **26**

5.1 26 dB Bandwidth 26
5.2 RF Output Power 26
5.3 Power Spectral Density 26
5.4 6 dB Bandwidth 26
5.5 Occupied Bandwidth 27
5.6 Frequency Stability 27
5.7 AC Power Conducted Emissions 27
5.8 Unwanted Emissions below 1 GHz 27
5.9 Unwanted Emissions above 1 GHz 28

6 Test Arrangements **29**

6.1 26 dB Bandwidth 29
6.1.1 Test Setup 29
6.1.2 Test Procedure 29
6.2 RF Output Power 30
6.2.1 Test Setup 30
6.2.2 Test Procedure 30
6.3 Power Spectral Density 31
6.3.1 Test Setup 31
6.3.2 Test Procedure 31
6.4 6 dB Bandwidth 31
6.4.1 Test Setup 31
6.4.2 Test Procedure 31
6.5 Occupied Bandwidth 32
6.5.1 Test Setup 32
6.5.2 Test Procedure 32
6.6 Frequency Stability 32
6.6.1 Test Setup 32
6.6.2 Test Procedure 32
6.7 AC Power Conducted Emissions 33

6.7.1 Test Setup 33
6.7.2 Test Procedure 33
6.8 Unwanted Emissions below 1 GHz 34
6.8.1 Test Setup 34
6.8.2 Test Procedure 35
6.9 Unwanted Emissions above 1 GHz 36
6.9.1 Test Setup 36
6.9.2 Test Procedure 36
7 Test Results of Test Item 37
7.1 26 dB Bandwidth 37
7.2 RF Output Power 51
7.3 Power Spectral Density 85
7.4 6 dB Bandwidth 103
7.5 Occupied Bandwidth 109
7.6 Frequency Stability 130
7.7 AC Power Conducted Emissions 132
7.8 Unwanted Emissions below 1 GHz 134
7.9 Unwanted Emissions above 1 GHz 136
8 Pictures of Test Arrangements 263
9 Information of the Testing Laboratories 264

Release Control Record

Issue No.	Description	Date Issued
RFBGSN-WTW-P22060933-1	Original release.	2022/10/07

1 Certificate

Product:	RadiX AX6600 WiFi 6 Tri-Band Gaming Router
Brand:	msi
Test Model:	GRAX66
Sample Status:	Identical Prototype
Applicant:	Micro-Star International Co., Ltd.
Test Date:	2022/7/11 ~ 2022/8/24
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	Pass	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -7.06 dB at 0.47400 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.5 dB at 51.34 MHz
15.407(b) (1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 5460.00MHz
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.79 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	RadiX AX6600 WiFi 6 Tri-Band Gaming Router
Brand	msi
Test Model	GRAX66
Series Model	N/A
Status of EUT	Identical Prototype
Power Supply Rating	12 Vdc (adapter)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.8Mbps 802.11ax: up to 4900Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.50 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	5.18 GHz ~ 5.32 GHz 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 5.50 GHz ~ 5.72 GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5.745 GHz ~ 5.825 GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	**CDD Mode** 802.11a 5.18 GHz ~ 5.24 GHz : 654.886 mW (28.16 dBm) 5.26 GHz ~ 5.32 GHz : 235.811 mW (23.73 dBm) 5.50 GHz ~ 5.72 GHz : 152.612 mW (21.84 dBm) 5.745 GHz ~ 5.825 GHz : 943.377 mW (29.75 dBm) NSS 1: 5.18 GHz ~ 5.24 GHz : 735.268 mW (28.66 dBm) 5.26 GHz ~ 5.32 GHz : 239.371 mW (23.79 dBm) 5.50 GHz ~ 5.72 GHz : 236.297 mW (23.73 dBm) 5.745 GHz ~ 5.825 GHz : 947.169 mW (29.76 dBm) NSS 2: 5.18 GHz ~ 5.24 GHz : 681.278 mW (28.33 dBm) 5.26 GHz ~ 5.32 GHz : 239.651 mW (23.80 dBm) 5.50 GHz ~ 5.72 GHz : 242.228 mW (23.84 dBm) 5.745 GHz ~ 5.825 GHz : 926.398 mW (29.67 dBm) NSS 4: 5.50 GHz ~ 5.72 GHz : 241.008 mW (23.82 dBm) 5.745 GHz ~ 5.825 GHz : 962.109 mW (29.83 dBm)

Output Power	**Beamforming Mode** NSS 1: 5.18 GHz ~ 5.24 GHz : 735.268 mW (28.66 dBm) 5.26 GHz ~ 5.32 GHz : 239.371 mW (23.79 dBm) 5.50 GHz ~ 5.72 GHz : 171.182 mW (22.33 dBm) 5.745 GHz ~ 5.825 GHz : 787.820 mW (28.96 dBm) NSS 2: 5.18 GHz ~ 5.24 GHz : 681.278 mW (28.33 dBm) 5.26 GHz ~ 5.32 GHz : 239.651 mW (23.80 dBm) 5.50 GHz ~ 5.72 GHz : 242.228 mW (23.84 dBm) 5.745 GHz ~ 5.825 GHz : 926.398 mW (29.67 dBm) NSS 4: 5.50 GHz ~ 5.72 GHz : 241.008 mW (23.82 dBm) 5.745 GHz ~ 5.825 GHz : 962.109 mW (29.83 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

AC Adapter		
Brand	Model	Specification
CWT	2AEJ042FC	I/P: 100-240 Vac, 50/60Hz, 1.3A O/P: 12.0 Vdc, 3.5 A, 42.0W
Ethernet cable		
Brand	Model	Specification
NA	NA	Signal Line : 0.96M

2. Both of the 2.4GHz and 5GHz can transmit simultaneously
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

RF Chain NO.	Type	Connector	Brand	Model	Frequency Range (MHz)	Gain (dBi)				Directional Gain (dBi)		
						Chain 0	Chain 1	Chain 2	Chain 3	NSS 1	NSS 2	NSS 4
2G	Dipole	I-PEX	Wieson	Chain 0: ARY121-0307-001-00 Chain 1: ARY121-0307-003-00	2400 ~ 2483.5	2.05	2.07	-	-	4.24	1.97	-
5G_L				Chain 0: ARY121-0307-001-00 Chain 1: ARY121-0307-003-00	5150 ~ 5250	4.54	4.59	-	-	5.68	3.21	-
					5250 ~ 5350	4.60	4.65	-	-	5.69	3.54	-
5G_H				Chain 0: ARY121-0307-002-00 Chain 1: ARY121-0307-004-00 Chain 2: ARY121-0307-005-00 Chain 3: ARY121-0307-006-00	5470 ~ 5725	3.02	3.69	2.89	3.02	7.59	5.56	2.47
					5725 ~ 5850	3.01	2.88	3.72	3.27	6.99	4.91	2.33

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function. Physically, the EUT (WLAN 5G Band 3, 4) provides 4 completed transmitters and 4 receivers. Physically, the EUT (WLAN 5G Band 1, 2) provides 2 completed transmitters and 2 receivers.

Modulation Mode	CDD Mode	Beamforming Mode	TX Function
Band 1, 2			
802.11a	Support	Not Support	2TX
802.11n (HT20)	Support	Not Support	2TX (NSS1 / NSS2)
802.11n (HT40)	Support	Not Support	2TX (NSS1 / NSS2)
802.11ac (VHT20)	Support	Support	2TX (NSS1 / NSS2)
802.11ac (VHT40)	Support	Support	2TX (NSS1 / NSS2)
802.11ac (VHT80)	Support	Support	2TX (NSS1 / NSS2)
802.11ax (HE20)	Support	Support	2TX (NSS1 / NSS2)
802.11ax (HE40)	Support	Support	2TX (NSS1 / NSS2)
802.11ax (HE80)	Support	Support	2TX (NSS1 / NSS2)
Band 3, 4			
802.11a	Support	Not Support	4TX
802.11n (HT20)	Support	Not Support	4TX (NSS1 / NSS2 / NSS4)
802.11n (HT40)	Support	Not Support	4TX (NSS1 / NSS2 / NSS4)
802.11ac (VHT20)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ac (VHT40)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ac (VHT80)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ac (VHT160)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ax (HE20)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ax (HE40)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ax (HE80)	Support	Support	4TX (NSS1 / NSS2 / NSS4)
802.11ax (HE160)	Support	Support	4TX (NSS1 / NSS2 / NSS4)

Note:
1. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
2. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz		

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570MHz

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	The worst case was found when positioned on X-axis.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	NSS	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	NA	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	1, 2	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11n (HT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ac (VHT160)	CDD & Beamforming	114	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	114	BPSK	MCS0

Test Item	NSS	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	4	802.11n (HT20)	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11n (HT40)	CDD	102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT20)	CDD & Beamforming	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	106, 122, 138, 155	BPSK	MCS0
		802.11ac (VHT160)	CDD & Beamforming	114	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	114	BPSK	MCS0
Occupied Bandwidth/ Power Spectral Density	NA	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	1, 2	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	
	4	802.11ax (HE20)	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	

Test Item	NSS	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	NA	802.11a	CDD	52, 60, 64, 100, 116, 140, 144,	BPSK	6Mb/s
	1, 2	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144,	BPSK	MCS0
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD	58, 106, 122, 138,	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	MCS0
	4	802.11ax (HE20)	CDD	100, 116, 140, 144,	BPSK	MCS0
		802.11ax (HE40)	CDD	102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD	106, 122, 138,	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	MCS0
6 dB Bandwidth	NA	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	1, 2, 4	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Frequency Stability	NA	802.11a	CDD	36	BPSK	6Mb/s
	NA	802.11a	CDD	100	BPSK	6Mb/s
AC Power Conducted Emissions	NA	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	NA	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	NA	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	1, 2	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	MCS0

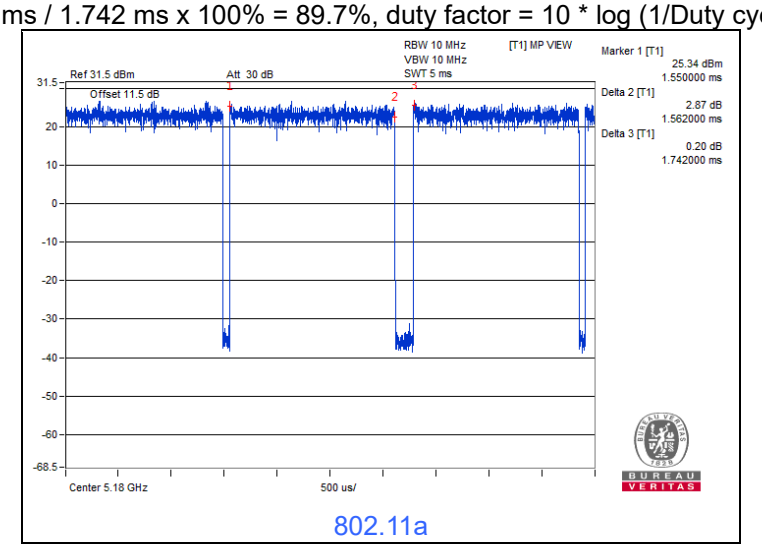
Test Item	NSS	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	4	802.11ax (HE20)	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

FOR 5180 ~ 5320 MHz

Duty cycle of test signal is < 98 %, duty factor shall be considered.

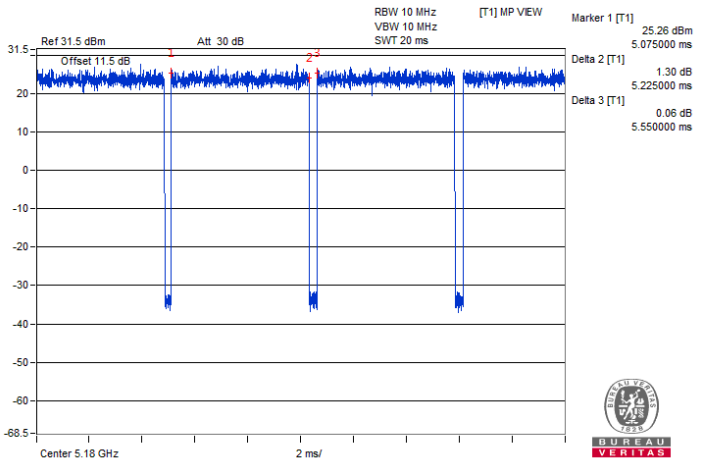
802.11a: Duty cycle = 1.562 ms / 1.742 ms x 100% = 89.7%, duty factor = 10 * log (1/Duty cycle) = 0.47 dB



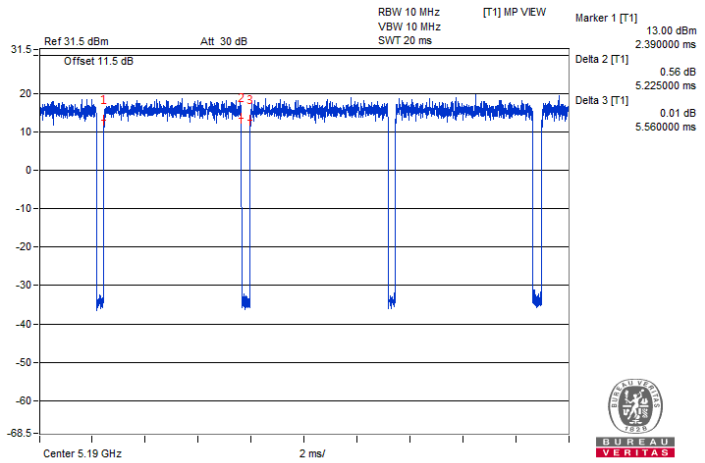
802.11a

NSS 1

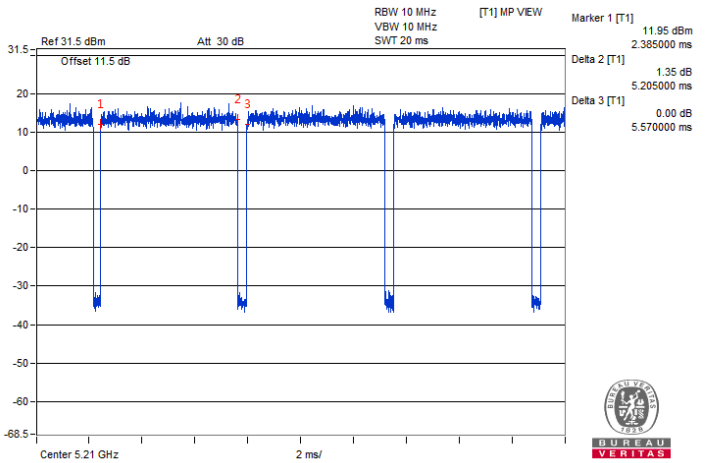
802.11ax (HE20): Duty cycle = 5.225 ms / 5.55 ms x 100% = 94.1%, duty factor = 10 * log (1/Duty cycle) = 0.26 dB
802.11ax (HE40): Duty cycle = 5.225 ms / 5.56 ms x 100% = 94.0%, duty factor = 10 * log (1/Duty cycle) = 0.27 dB
802.11ax (HE80): Duty cycle = 5.205 ms / 5.57 ms x 100% = 93.4%, duty factor = 10 * log (1/Duty cycle) = 0.29 dB



802.11ax (HE20)



802.11ax (HE40)

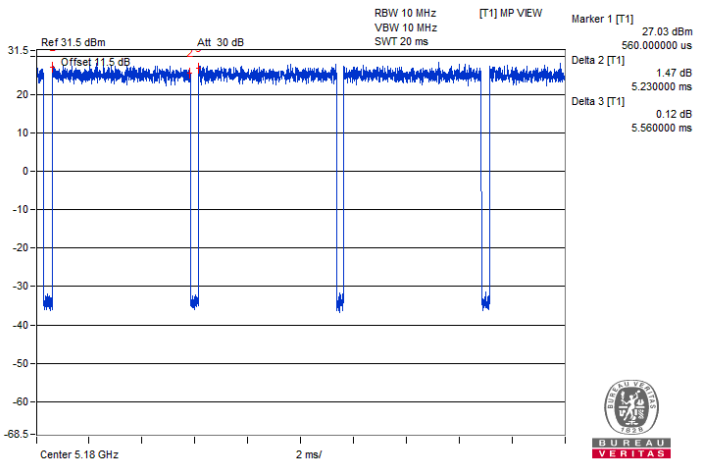


802.11ax (HE80)

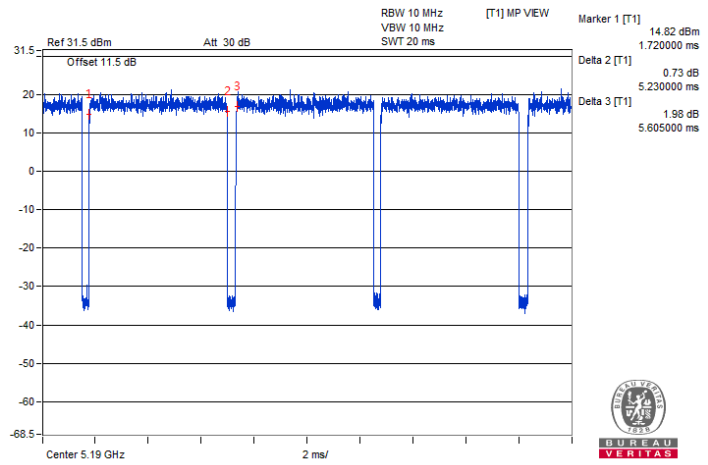
NSS 2

Duty cycle of test signal is < 98 %, duty factor shall be considered.

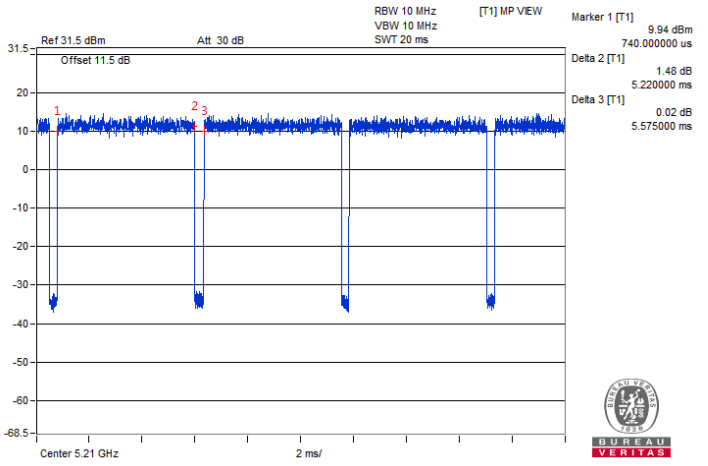
802.11ax (HE20): Duty cycle = 5.23 ms / 5.56 ms x 100% = 94.1%, duty factor = 10 * log (1/Duty cycle) = 0.27 dB
802.11ax (HE40): Duty cycle = 5.23 ms / 5.605 ms x 100% = 93.3%, duty factor = 10 * log (1/Duty cycle) = 0.30 dB
802.11ax (HE80): Duty cycle = 5.22 ms / 5.575 ms x 100% = 93.6%, duty factor = 10 * log (1/Duty cycle) = 0.29 dB



802.11ax (HE20)



802.11ax (HE40)

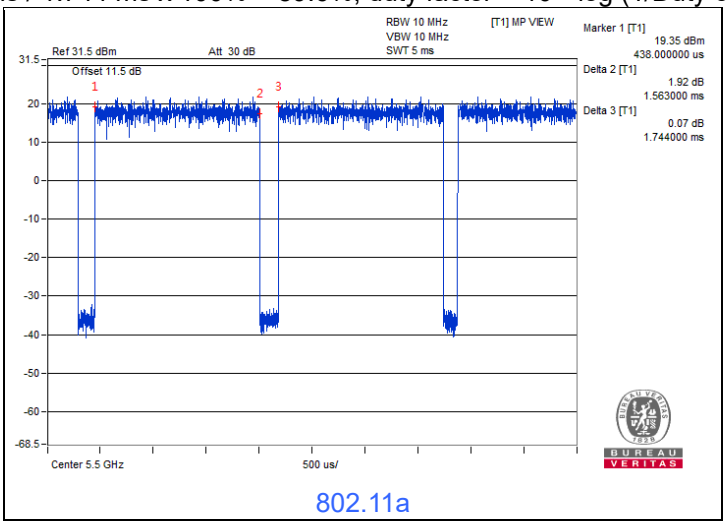


802.11ax (HE80)

For 5.5 GHz ~ 5.825 GHz

Duty cycle of test signal is < 98 %, duty factor shall be considered.

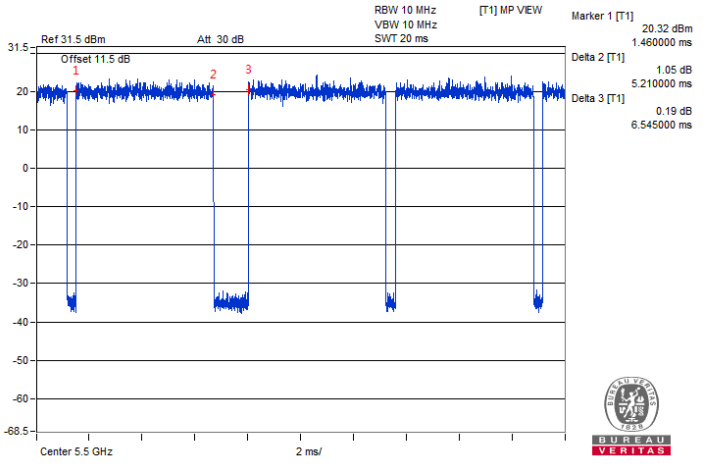
802.11a: Duty cycle = 1.563 ms / 1.744 ms x 100% = 89.6%, duty factor = 10 * log (1/Duty cycle) = 0.48 dB



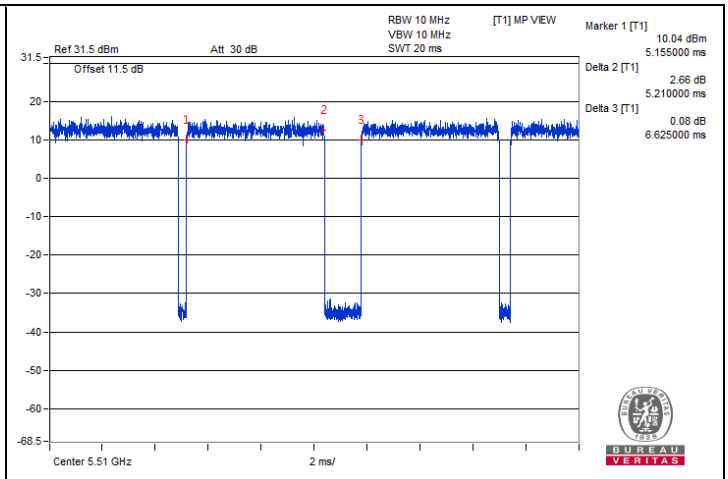
802.11a

NSS 1

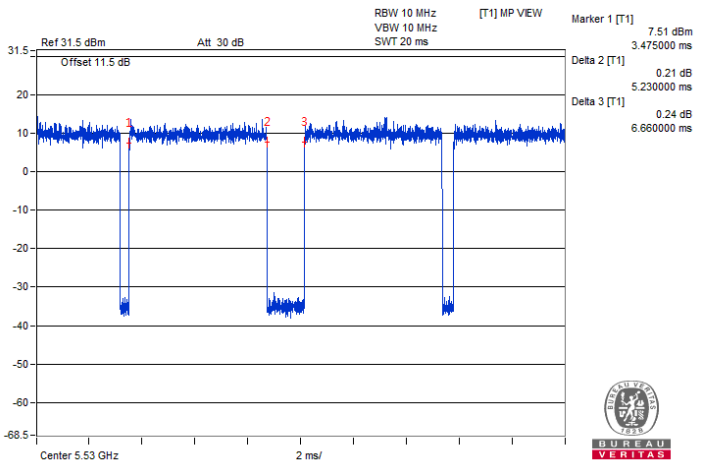
802.11ax (HE20): Duty cycle = 5.21 ms / 6.545 ms x 100% = 79.6%, duty factor = 10 * log (1/Duty cycle) = 0.99 dB
802.11ax (HE40): Duty cycle = 5.21 ms / 6.625 ms x 100% = 78.6%, duty factor = 10 * log (1/Duty cycle) = 1.04 dB
802.11ax (HE80): Duty cycle = 5.23 ms / 6.66 ms x 100% = 78.5%, duty factor = 10 * log (1/Duty cycle) = 1.05 dB
802.11ax (HE160): Duty cycle = 5.44 ms / 6.355 ms x 100% = 85.6%, duty factor = 10 * log (1/Duty cycle) = 0.68 dB



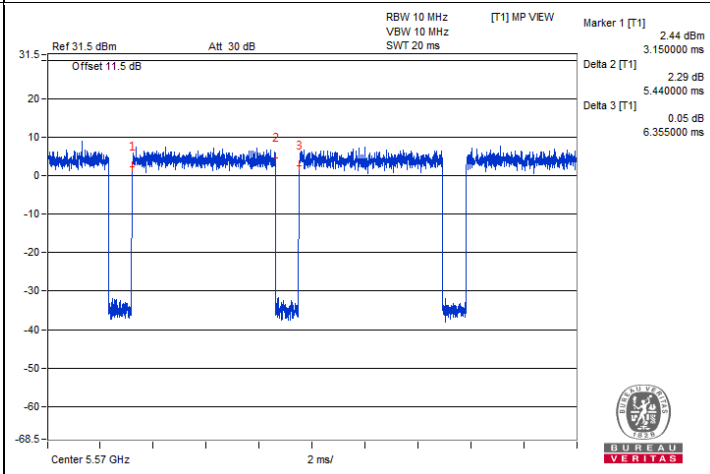
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

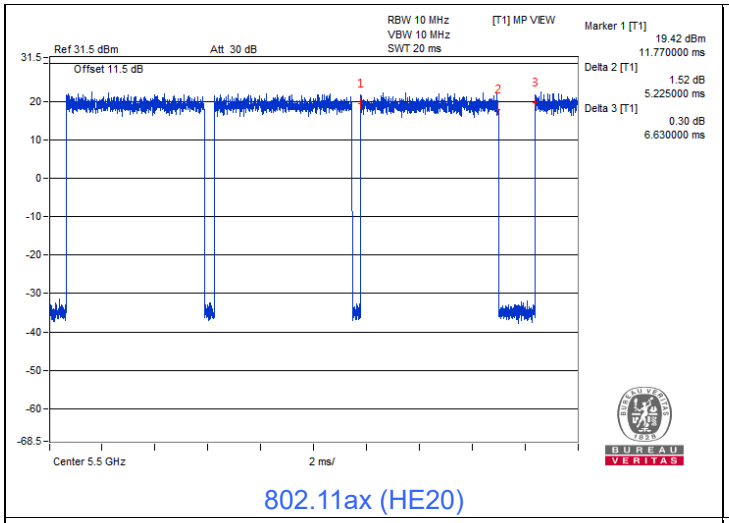


802.11ax (HE160)

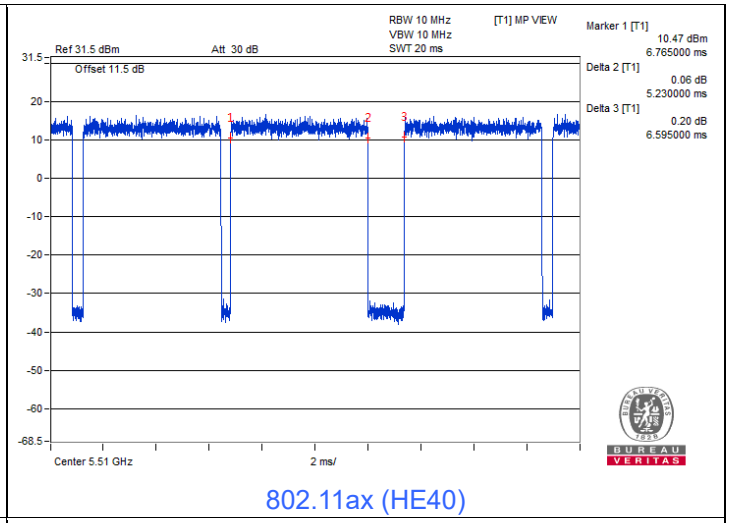
NSS 2

Duty cycle of test signal is < 98 %, duty factor shall be considered.

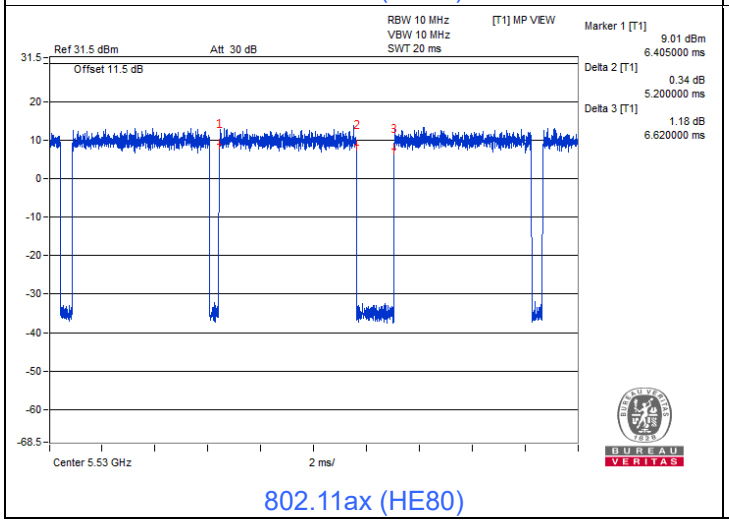
802.11ax (HE20): Duty cycle = 5.225 ms / 6.63 ms x 100% = 78.8%, duty factor = 10 * log (1/Duty cycle) = 1.03 dB
802.11ax (HE40): Duty cycle = 5.23 ms / 6.595 ms x 100% = 79.3%, duty factor = 10 * log (1/Duty cycle) = 1.01 dB
802.11ax (HE80): Duty cycle = 5.2 ms / 6.62 ms x 100% = 78.5%, duty factor = 10 * log (1/Duty cycle) = 1.05 dB
802.11ax (HE160): Duty cycle = 5.425 ms / 6.485 ms x 100% = 83.7%, duty factor = 10 * log (1/Duty cycle) = 0.78 dB



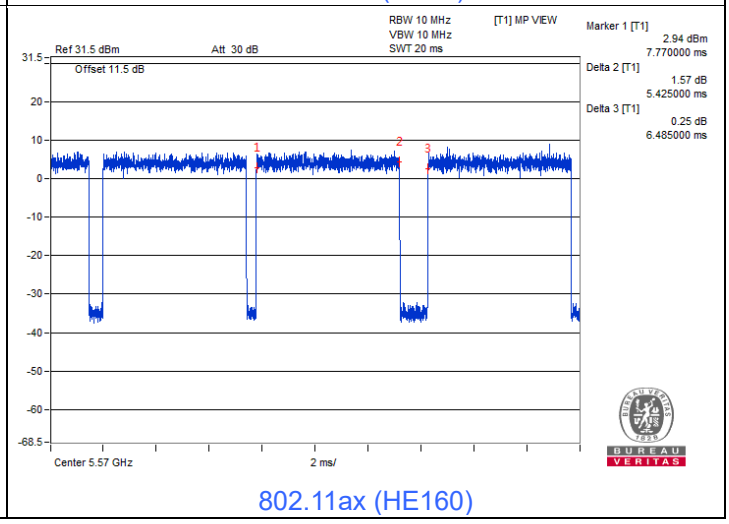
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

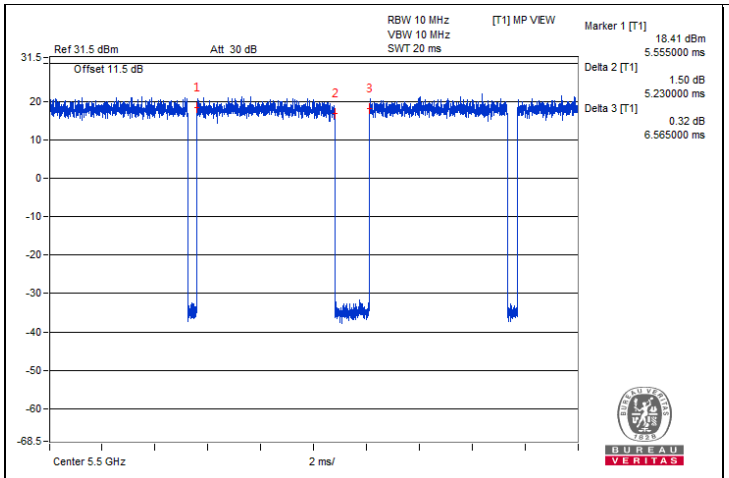


802.11ax (HE160)

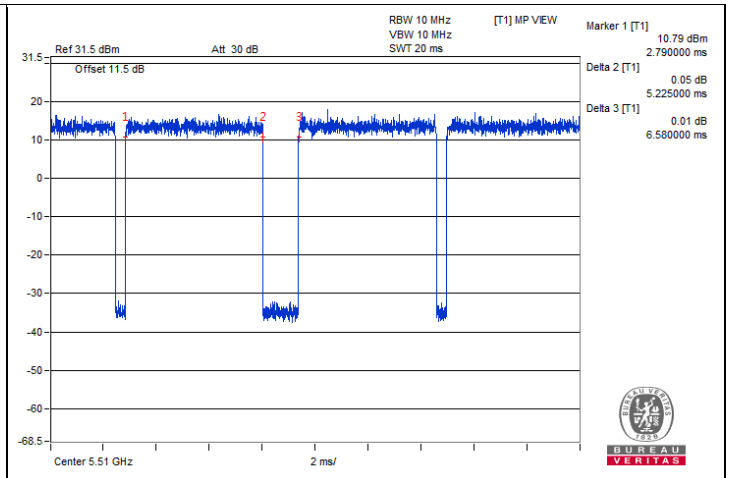
NSS 4

Duty cycle of test signal is < 98 %, duty factor shall be considered.

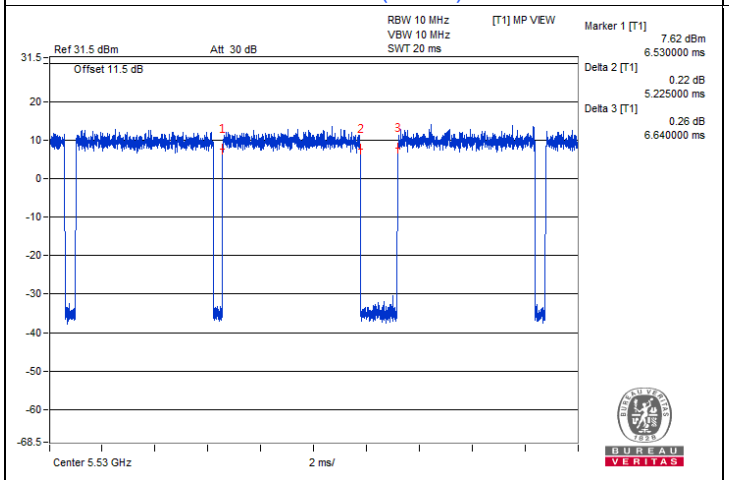
802.11ax (HE20): Duty cycle = 5.23 ms / 6.565 ms x 100% = 79.7%, duty factor = 10 * log (1/Duty cycle) = 0.99 dB
802.11ax (HE40): Duty cycle = 5.225 ms / 6.58 ms x 100% = 79.4%, duty factor = 10 * log (1/Duty cycle) = 1.00 dB
802.11ax (HE80): Duty cycle = 5.225 ms / 6.64 ms x 100% = 78.7%, duty factor = 10 * log (1/Duty cycle) = 1.04 dB
802.11ax (HE160): Duty cycle = 5.41 ms / 6.475 ms x 100% = 83.6%, duty factor = 10 * log (1/Duty cycle) = 0.78 dB



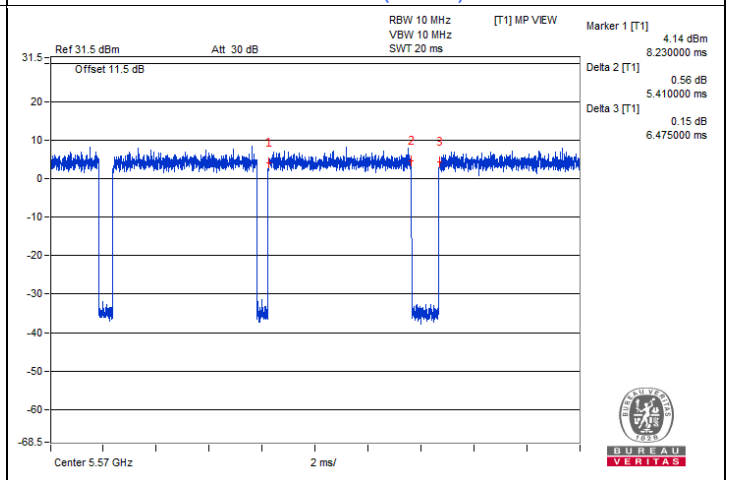
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

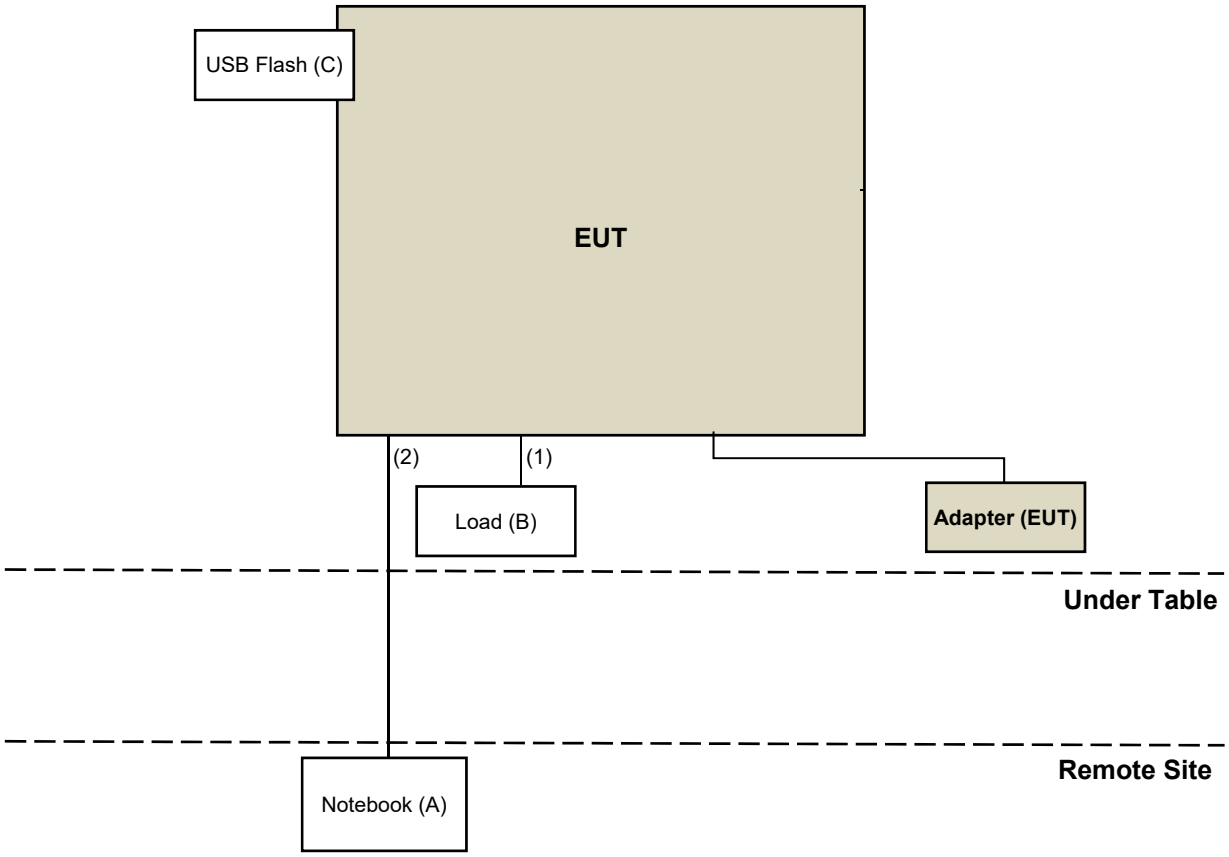


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT Version 4.0.00192.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	Lenovo	L440	R9-0GFJKK	N/A	Provided by Lab
B	Load	NA	NA	NA	NA	Provided by Lab
C	USB Flash	SanDisk	32G	NA	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	4	1.5	NO	0	Provided by Lab
2	RJ-45 Cable	1	7	NO	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/8/8 ~ 2022/8/24

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	2022/1/18	2023/1/17
Power sensor Keysight	U2021XA	MY55380009	2022/3/23	2023/3/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Wideband Power Sensor(N1923A) KEYSIGHT	N1923A	MY58020002	2022/1/17	2023/1/16

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/8/8 ~ 2022/8/24

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/8/8 ~ 2022/8/24

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source ExTech	CFW-105	E000603	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/1/3	2023/1/2

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/8/8 ~ 2022/8/24

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC-LISN SCHWARZBECK MESS-ELETRONIK	NNBM 8126G	8126G-069	2021/11/10	2022/11/9
LISN R&S	ESH2-Z5	100100	2022/2/17	2023/2/16
RF Coaxial Cable WORKEN	5D-FB	Cable-cond2-01	2021/9/4	2022/9/3
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver R&S	ESR3	102783	2021/12/20	2022/12/19
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2021/8/20	2022/8/19

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2022/7/30

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB9168	9168-472	2021/10/28	2022/10/27
Loop Antenna EMCI	EM-6879	269	2021/9/16	2022/9/15
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-Ammlifier EMCI	EMC 330H	980112	2021/10/5	2022/10/4
Pre-amplifier EMCI	EMC001340	980201	2021/9/15	2022/9/14
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
RF Coaxial Cable WORKEN	8D-FB	Cable-Ch10-01	2021/10/5	2022/10/4
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY51210203	2021/9/22	2022/9/21
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2022/7/30

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2021/11/14	2022/11/13
	BBHA 9170	148	2021/11/14	2022/11/13
Pre-Ammlifier EMCI	EMC 012645	980115	2021/10/5	2022/10/4
	EMC 184045	980116	2021/10/5	2022/10/4
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
	EMC104-SM-SM-8000	171005	2021/10/5	2022/10/4
RF Coaxial Cable HUBER SUHNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	2021/10/5	2022/10/4
RF FLITER MICRO-TRONICS	BRM17690	004	2022/1/10	2023/1/9
	BRM50716	060	2022/1/10	2023/1/9
Signal Analyzer Agilent	N9010A	MY52220314	2021/12/3	2022/12/2
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2022/7/11 ~ 2022/8/20

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/ MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/ MHz

Operation Band	Limit
U-NII-2A	11 dBm/ MHz
U-NII-2C	11 dBm/ MHz
U-NII-3	30 dBm/ 500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.8 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.9 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

<table>
<tr><td colspan="2">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="2" rowspan="2">789033 D02 General UNII Test Procedure New Rules v02r01</td><td colspan="2">Field Strength at 3 m</td></tr>
<tr><td>PK: 74 (dBµV/m)</td><td>AV: 54 (dBµV/m)</td></tr>
<tr><td>Frequency Band</td><td>Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3 m</td></tr>
<tr><td>5150~5250 MHz</td><td>15.407(b)(1)</td><td rowspan="3">PK: -27 (dBm/MHz)</td><td rowspan="3">PK: 68.2 (dBµV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td>15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td>15.407(b)(3)</td></tr>
<tr><td>5725~5850 MHz</td><td>15.407(b)(4)(i)</td><td>PK: -27 (dBm/MHz) *1
PK: 10 (dBm/MHz) *2
PK: 15.6 (dBm/MHz) *3
PK: 27 (dBm/MHz) *4</td><td>PK: 68.2 (dBµV/m) *1
PK: 105.2 (dBµV/m) *2
PK: 110.8 (dBµV/m) *3
PK: 122.2 (dBµV/m) *4</td></tr>
<tr><td colspan="4">*1 beyond 75 MHz or more above of the band edge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</td></tr>
</table>

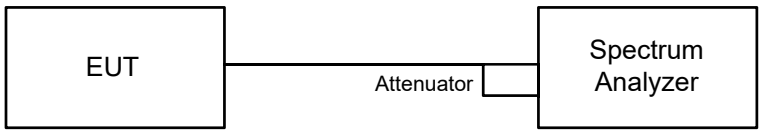
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ µV/m, where P is the eirp (Watts).

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



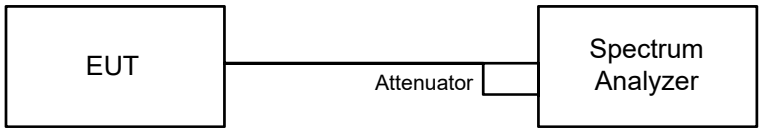
6.1.2 Test Procedure

a. Set RBW = approximately 1% of the emission bandwidth.
b. Set the VBW > RBW.
c. Detector = Peak.
d. Trace mode = max hold.
e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup

For channel straddling:



6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

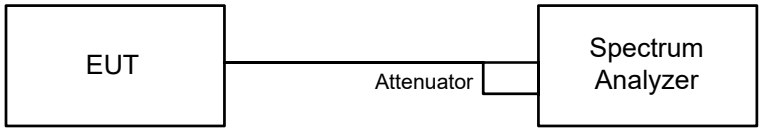
Method SA-2A

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Manually set sweep time ≥ 10 × (number of points in sweep) × (total on/off period of the transmitted signal).
e. Perform a single sweep.
f. Record the max value and add 10 log (1/duty cycle).

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
g. Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 500 kHz:
Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
h. Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

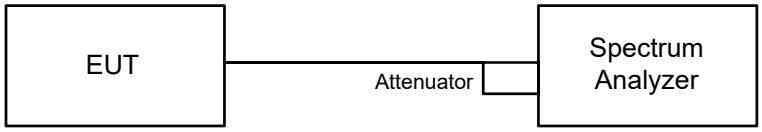
6.4.1 Test Setup

6.4.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

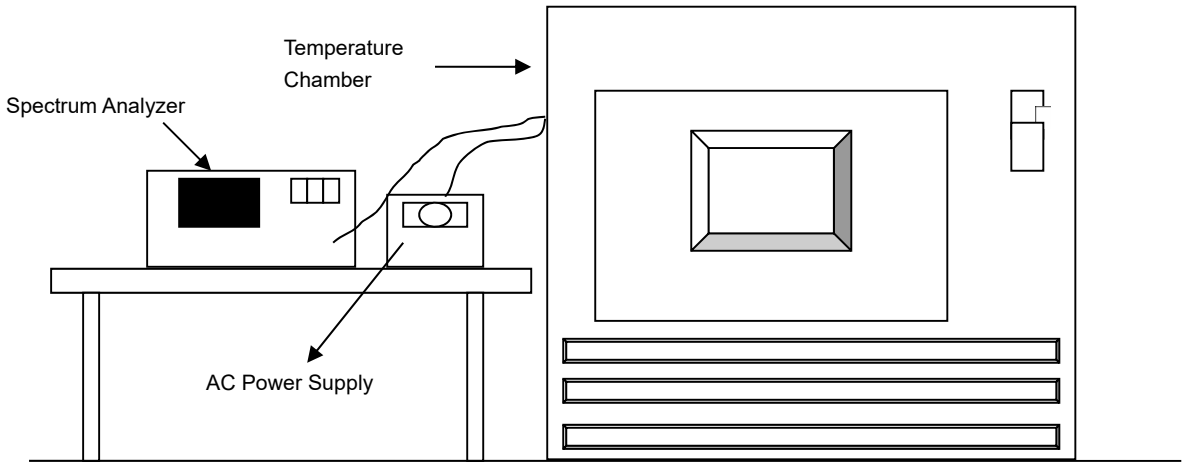


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

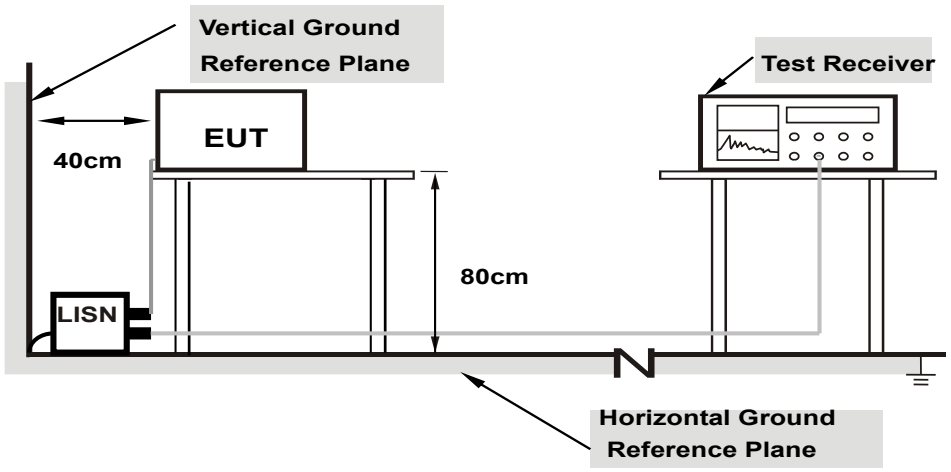


6.6.2 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
b. Turn the EUT on and couple its output to a spectrum analyzer.
c. Turn the EUT off and set the chamber to the highest temperature specified.
d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

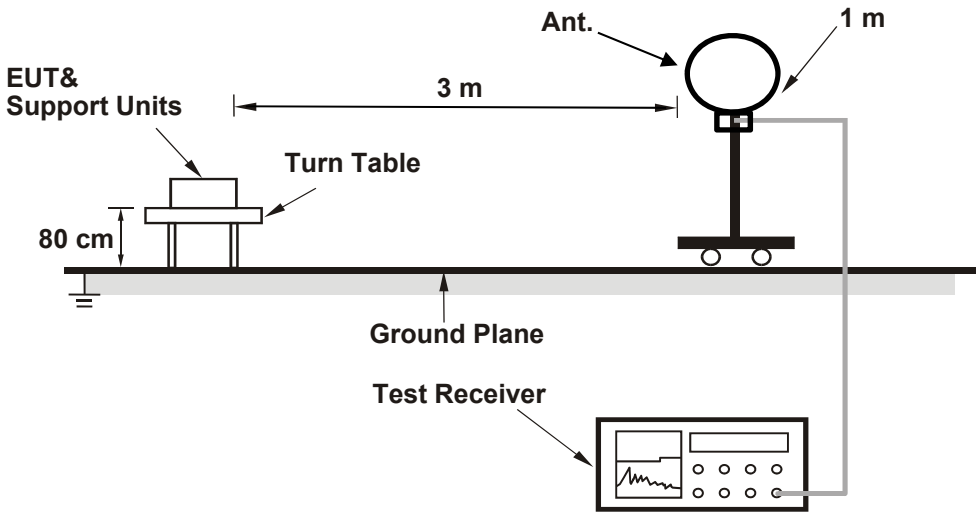
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

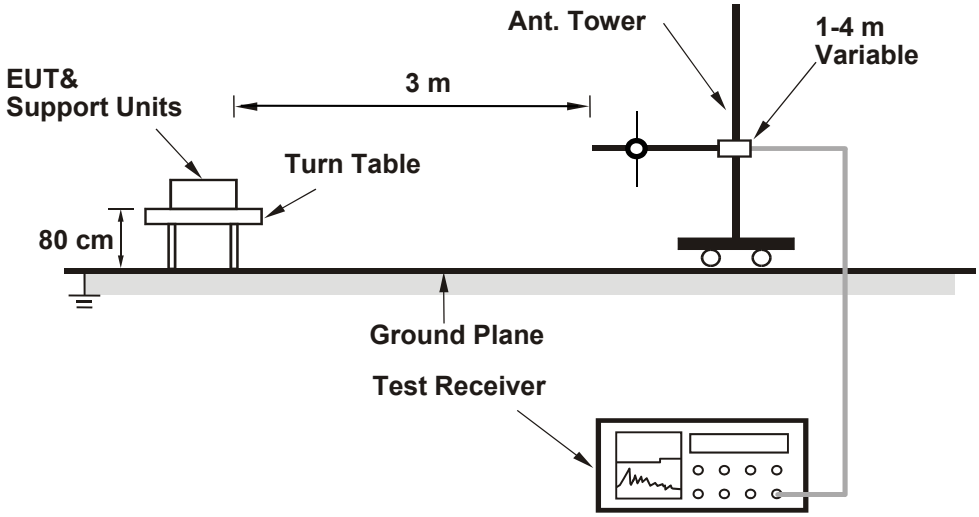
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

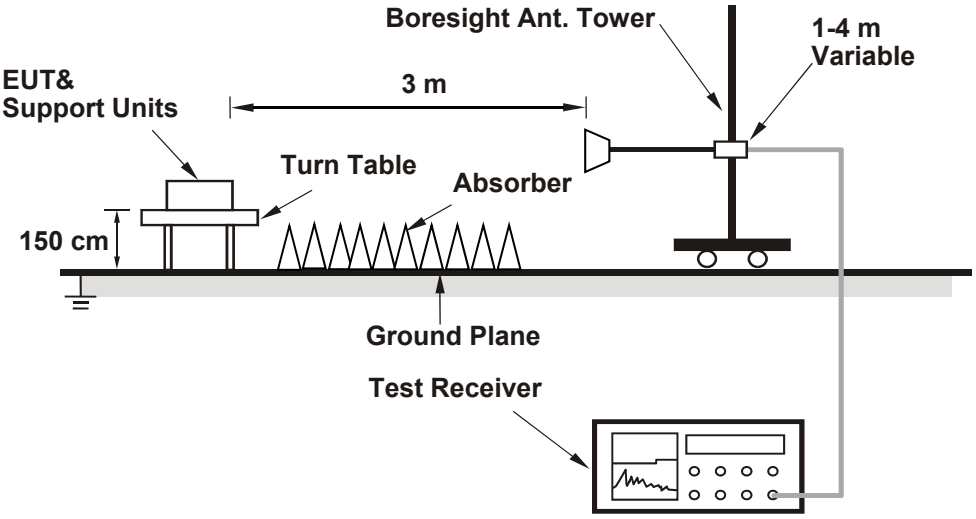
Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup

For Radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.9.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5180 ~ 5320MHz:

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.80	20.66
60	5300	20.16	19.87
64	5320	20.92	20.91

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	20.66	24.15	>	24
60	5300	19.87	23.98	<	24
64	5320	20.91	24.20	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

NSS 1

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.67	21.73
60	5300	21.60	21.95
64	5320	21.52	22.03

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.67	24.35	>	24
60	5300	21.60	24.34	>	24
64	5320	21.52	24.32	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.44	42.49
62	5310	42.56	42.60

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	42.44	27.27	>	24
62	5310	42.56	27.29	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

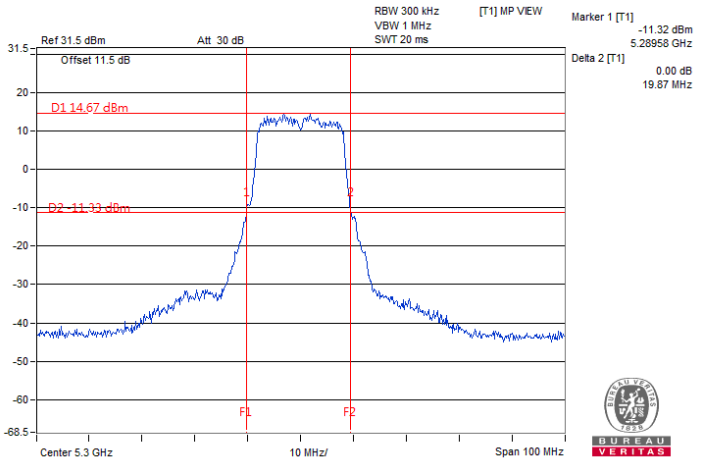
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.17	82.95

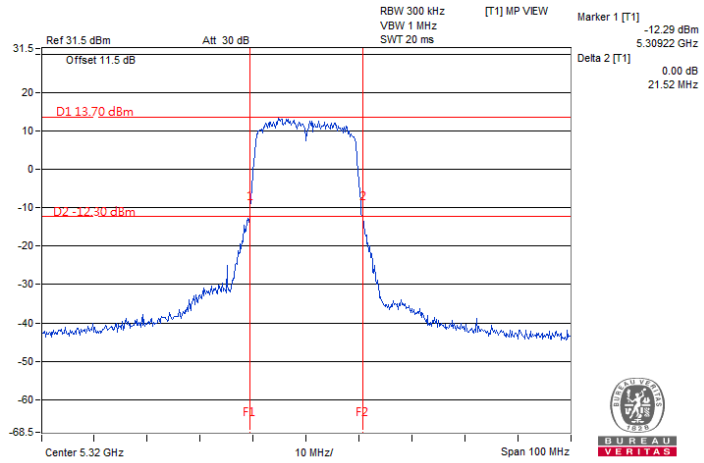
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	82.17	30.14	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

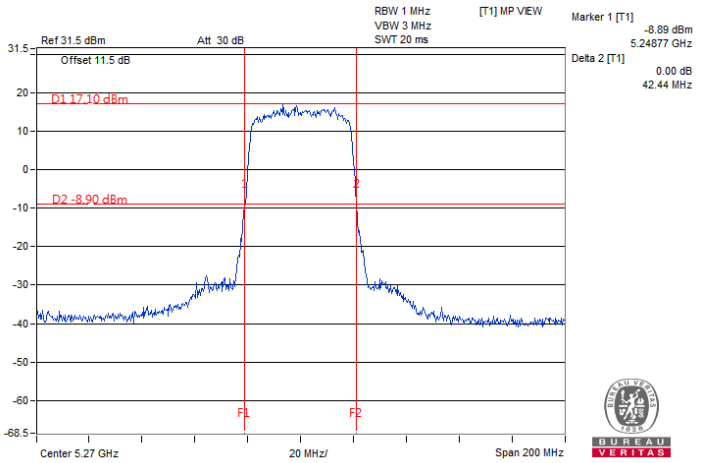
Spectrum Plot of Minimum Value



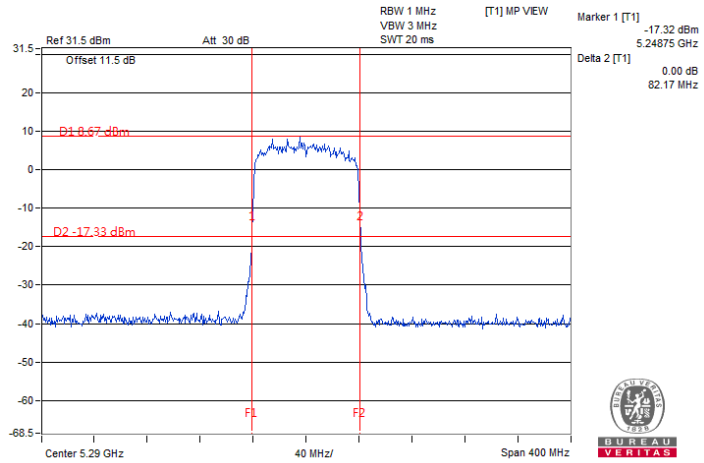
802.11a / Chain1 : CH 60



802.11ax (HE20) / Chain0 : CH 64



802.11ax (HE40) / Chain0 : CH 54



802.11ax (HE80) / Chain0 : CH 58

NSS 2

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.75	22.00
60	5300	21.84	22.67
64	5320	21.60	22.13

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.75	24.37	>	24
60	5300	21.84	24.39	>	24
64	5320	21.60	24.34	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.00	42.06
62	5310	42.25	42.06

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	42.00	27.23	>	24
62	5310	42.06	27.23	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

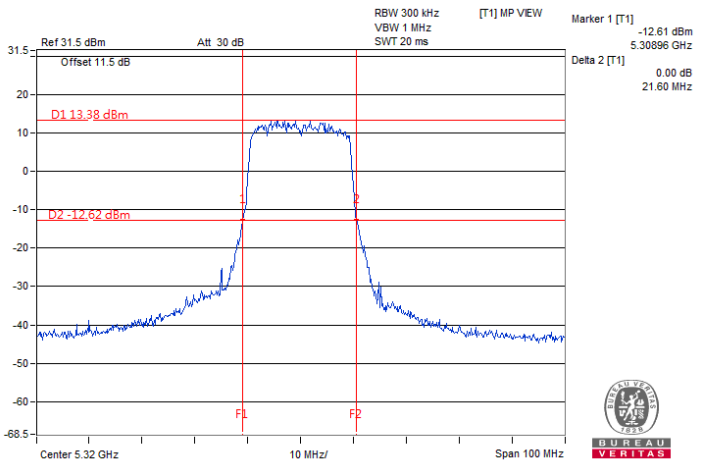
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.91	83.04

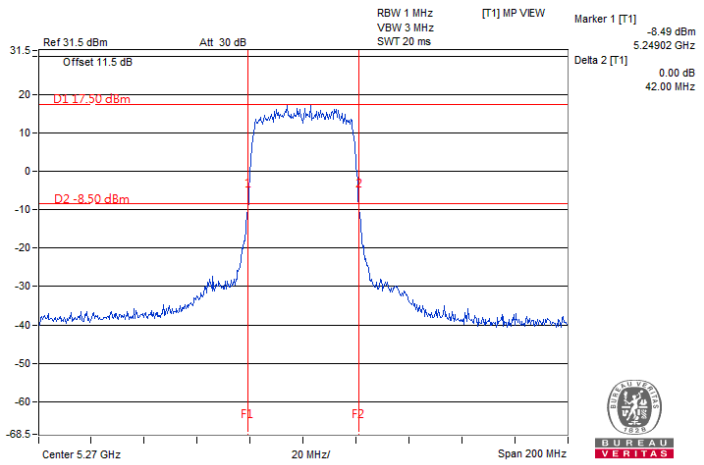
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	82.91	30.18	>	24

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

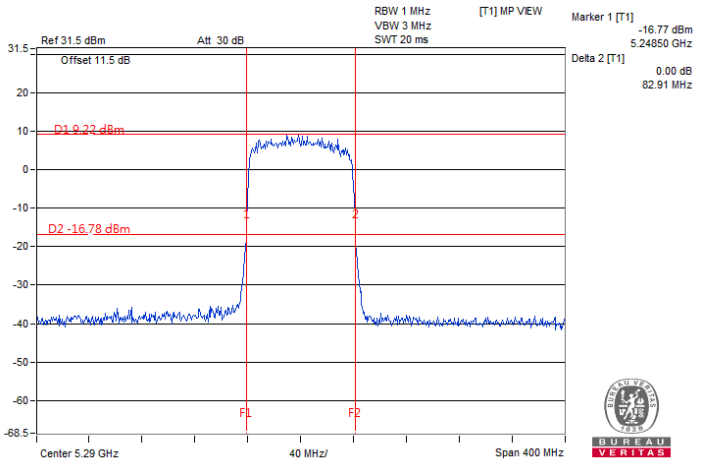
Spectrum Plot of Minimum Value



802.11ax (HE20) / Chain0 : CH 64



802.11ax (HE40) / Chain0 : CH 54



802.11ax (HE80) / Chain0 : CH 58

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5500 ~ 5720MHz:

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	20.69	20.71	20.53	20.64
116	5580	20.33	20.56	20.92	20.36
140	5700	20.67	20.62	21.05	20.76
144 (U-NII-2C)	5720	15.55	15.43	15.37	15.29

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	20.53	24.12	>	24
116	5580	20.33	24.08	>	24
140	5700	20.62	24.14	>	24
144 (U-NII-2C)	5720	15.29	22.84	<	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

NSS 1

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	22.18	21.91	22.05	22.13
116	5580	21.82	21.91	22.01	22.23
140	5700	21.95	22.27	21.73	22.05
144 (U-NII-2C)	5720	16.23	15.96	16.09	15.90

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	21.91	24.40	>	24
116	5580	21.82	24.38	>	24
140	5700	21.73	24.37	>	24
144 (U-NII-2C)	5720	15.90	23.01	<	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	41.86	41.86	41.70	41.77
110	5550	41.67	42.19	41.42	41.60
134	5670	42.21	41.59	41.71	41.96
142 (U-NII-2C)	5710	35.73	35.76	35.88	35.74

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
102	5510	41.70	27.20	>	24
110	5550	41.42	27.17	>	24
134	5670	41.59	27.18	>	24
142 (U-NII-2C)	5710	35.73	26.53	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	82.38	82.99	82.89	82.18
122	5610	82.21	82.63	82.87	83.04
138 (U-NII-2C)	5690	76.16	76.07	76.37	76.12

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
106	5530	82.18	30.14	>	24
122	5610	82.21	30.14	>	24
138 (U-NII-2C)	5690	76.07	29.81	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

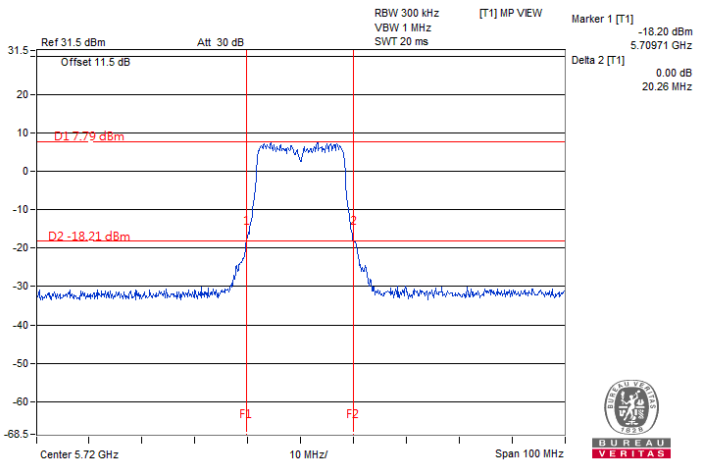
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	166.65	166.58	167.02	166.40

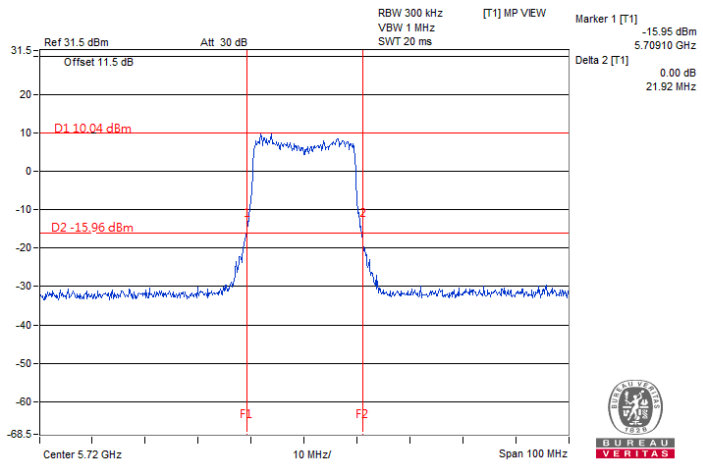
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
114	5570	166.40	33.21	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

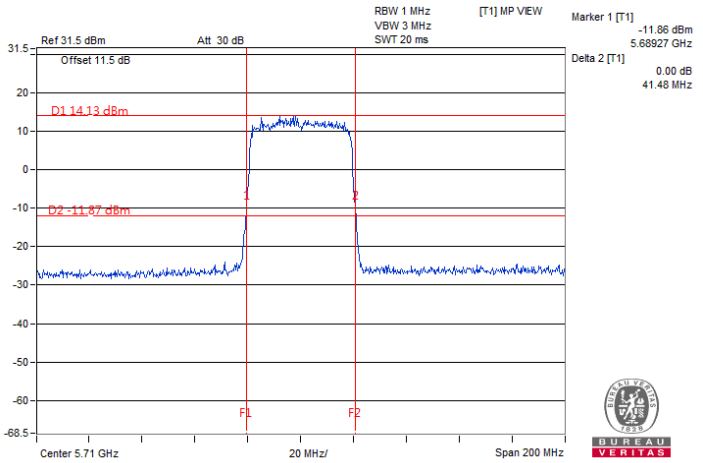
Spectrum Plot of Minimum Value



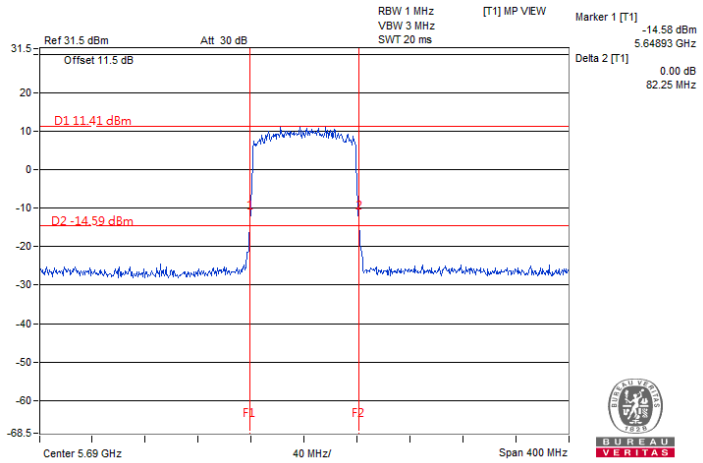
802.11a / Chain3 : CH 144 (U-NII-2C)



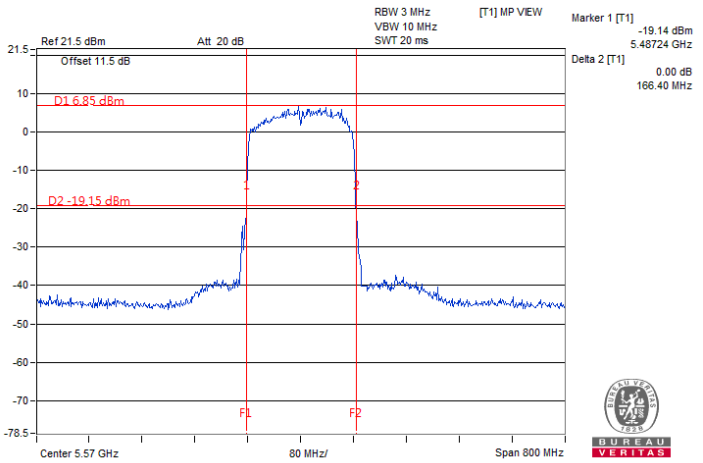
802.11ax (HE20) / Chain3 : CH 144 (U-NII-2C)



802.11ax (HE40) / Chain0 : CH 142 (U-NII-2C)



802.11ax (HE80) / Chain1 : CH 138 (U-NII-2C)



802.11ax (HE160) / Chain3 : CH 114

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1

NSS 2

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	21.58	21.74	22.07	22.10
116	5580	21.82	21.90	22.28	21.78
140	5700	21.90	21.90	21.96	21.84
144 (U-NII-2C)	5720	16.08	15.92	15.92	15.89

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	21.58	24.34	>	24
116	5580	21.78	24.38	>	24
140	5700	21.84	24.39	>	24
144 (U-NII-2C)	5720	15.89	23.01	<	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	41.93	41.72	41.81	41.29
110	5550	41.56	41.93	41.86	41.91
134	5670	41.68	41.84	42.23	41.70
142 (U-NII-2C)	5710	35.82	35.86	35.78	35.82

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
102	5510	41.29	27.15	>	24
110	5550	41.56	27.18	>	24
134	5670	41.68	27.19	>	24
142 (U-NII-2C)	5710	35.78	26.53	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	82.63	82.65	83.33	82.83
122	5610	82.54	83.36	82.58	83.22
138 (U-NII-2C)	5690	76.42	76.35	76.68	76.42

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
106	5530	82.63	30.17	>	24
122	5610	82.54	30.16	>	24
138 (U-NII-2C)	5690	76.35	29.82	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

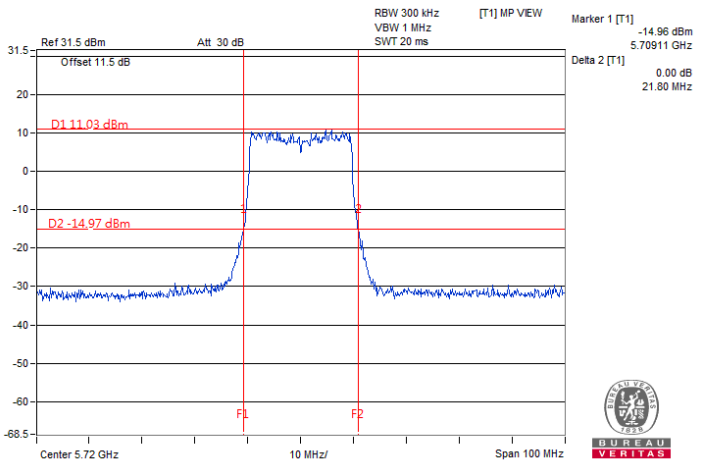
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	166.32	165.69	167.04	167.72

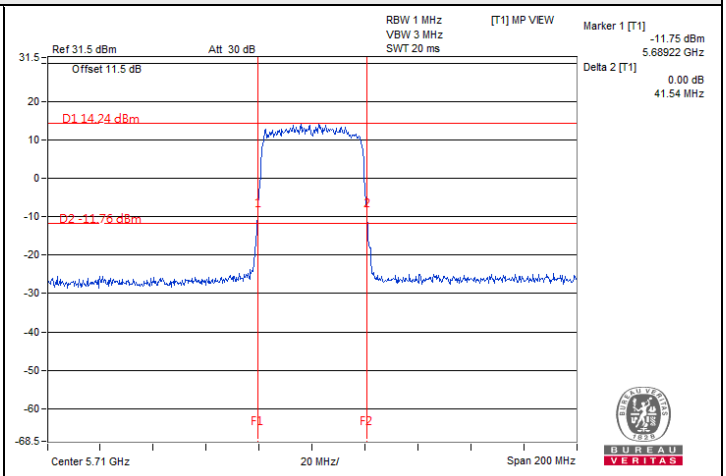
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
114	5570	165.69	33.19	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

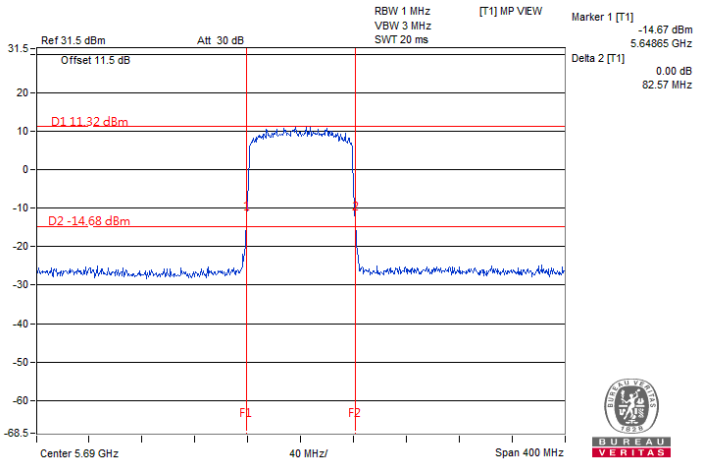
Spectrum Plot of Minimum Value



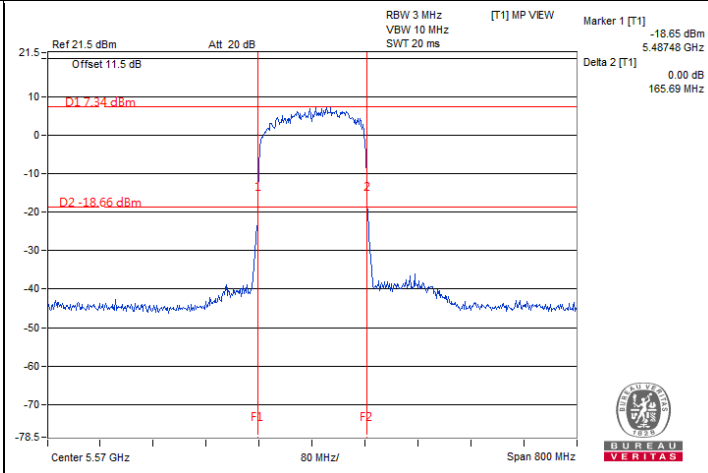
802.11ax (HE20) / Chain3 : CH 144 (U-NII-2C)



802.11ax (HE40) / Chain2 : CH 142 (U-NII-2C)



802.11ax (HE80) / Chain1 : CH 138 (U-NII-2C)



802.11ax (HE160) / Chain1 : CH 114

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1

NSS 4

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	21.93	21.95	21.81	21.82
116	5580	21.94	22.17	22.23	22.22
140	5700	21.88	21.90	21.95	21.99
144 (U-NII-2C)	5720	16.13	16.16	16.03	16.04

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	21.81	24.38	>	24
116	5580	21.94	24.41	>	24
140	5700	21.88	24.40	>	24
144 (U-NII-2C)	5720	16.03	23.04	<	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	41.68	41.61	41.49	41.82
110	5550	41.62	41.87	41.66	41.77
134	5670	41.62	42.00	41.59	41.64
142 (U-NII-2C)	5710	35.67	35.61	35.95	35.61

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
102	5510	41.49	27.17	>	24
110	5550	41.62	27.19	>	24
134	5670	41.59	27.18	>	24
142 (U-NII-2C)	5710	35.61	26.51	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	83.02	82.78	82.55	82.32
122	5610	82.82	82.90	82.48	82.59
138 (U-NII-2C)	5690	76.46	76.07	76.23	76.13

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
106	5530	82.32	30.15	>	24
122	5610	82.48	30.16	>	24
138 (U-NII-2C)	5690	76.07	29.81	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

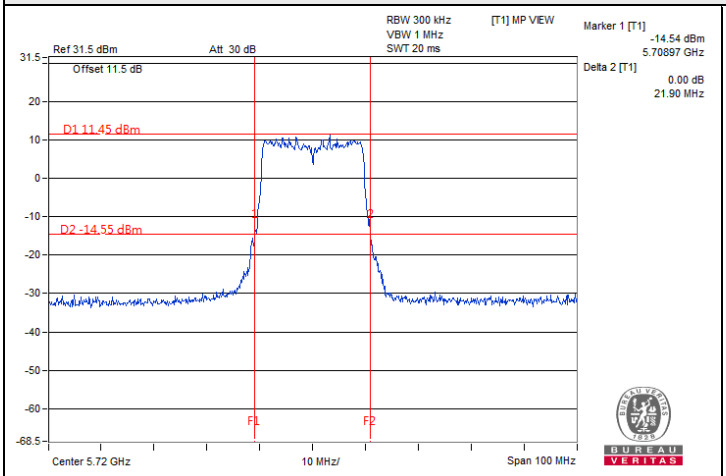
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	166.12	167.82	166.70	166.57

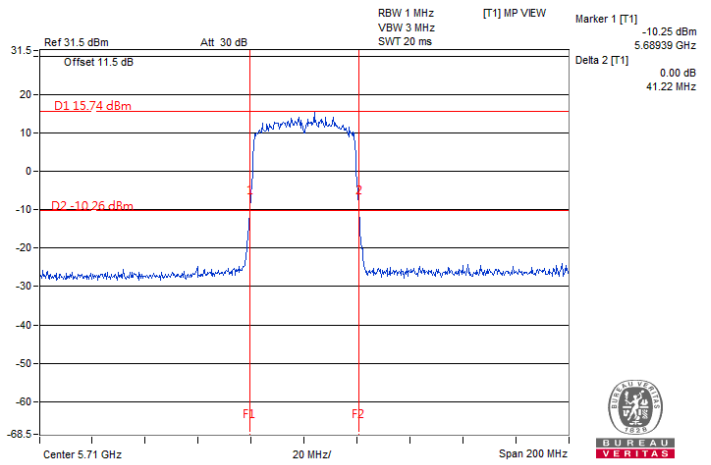
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
114	5570	166.12	33.20	>	24

Note: For U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

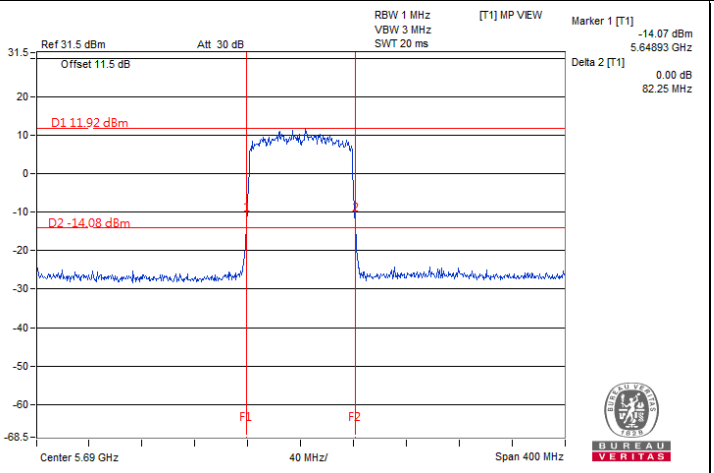
Spectrum Plot of Minimum Value



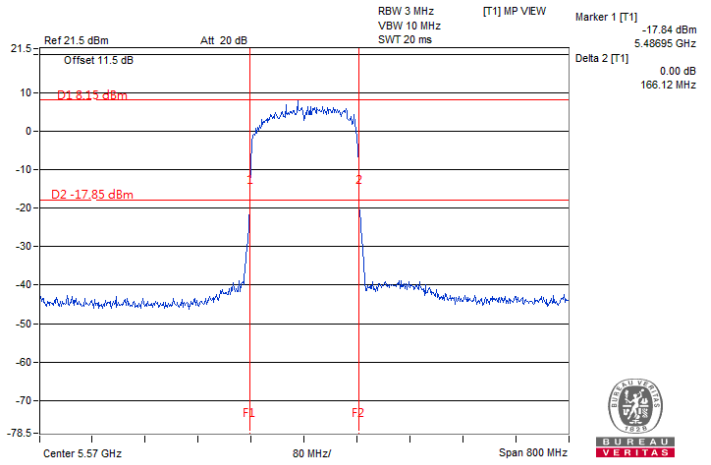
802.11ax (HE20) / Chain2 : CH 144 (U-NII-2C)



802.11ax (HE40) / Chain1 : CH 142 (U-NII-2C)



802.11ax (HE80) / Chain1 : CH 138 (U-NII-2C)



802.11ax (HE160) / Chain0 : CH 114

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5180 ~ 5320MHz:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.18	20.53	244.200	23.88	30	Pass
40	5200	25.38	24.91	654.886	28.16	30	Pass
48	5240	25.19	24.84	635.159	28.03	30	Pass
52	5260	20.67	20.56	230.444	23.63	24	Pass
60	5300	20.71	20.54	231.001	23.64	23.98	Pass
64	5320	20.77	20.66	235.811	23.73	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

NSS 1

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.51	23.14	430.451	26.34	30	Pass
40	5200	25.13	24.74	623.688	27.95	30	Pass
48	5240	24.95	24.56	598.367	27.77	30	Pass
52	5260	20.40	20.25	215.573	23.34	24	Pass
60	5300	20.49	20.37	220.837	23.44	24	Pass
64	5320	20.53	20.43	223.387	23.49	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.34	15.12	66.707	18.24	30	Pass
46	5230	25.53	25.19	687.642	28.37	30	Pass
54	5270	20.53	20.45	223.897	23.50	24	Pass
62	5310	14.16	13.96	50.95	17.07	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.62	23.26	441.98	26.45	30	Pass
40	5200	25.24	24.87	641.097	28.07	30	Pass
48	5240	25.07	24.68	615.131	27.89	30	Pass
52	5260	20.52	20.38	221.864	23.46	24	Pass
60	5300	20.60	20.48	226.502	23.55	24	Pass
64	5320	20.66	20.55	229.914	23.62	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.47	15.23	68.580	18.36	30	Pass
46	5230	25.67	25.31	708.603	28.50	30	Pass
54	5270	20.66	20.57	230.438	23.63	24	Pass
62	5310	14.29	14.07	52.380	17.19	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.14	15.98	80.743	19.07	30	Pass
58	5290	14.30	14.21	53.279	17.27	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.78	23.41	458.062	26.61	30	Pass
40	5200	25.41	25.03	665.956	28.23	30	Pass
48	5240	25.23	24.82	636.816	28.04	30	Pass
52	5260	20.69	20.54	230.46	23.63	24	Pass
60	5300	20.77	20.62	234.744	23.71	24	Pass
64	5320	20.82	20.70	238.271	23.77	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.63	15.38	71.074	18.52	30	Pass
46	5230	25.84	25.46	735.268	28.66	30	Pass
54	5270	20.84	20.72	239.371	23.79	24	Pass
62	5310	14.44	14.21	54.16	17.34	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.31	16.13	83.777	19.23	30	Pass
58	5290	14.48	14.37	55.407	17.44	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.62	23.26	441.980	26.45	30	Pass
40	5200	25.24	24.87	641.097	28.07	30	Pass
48	5240	25.07	24.68	615.131	27.89	30	Pass
52	5260	20.52	20.38	221.864	23.46	24	Pass
60	5300	20.60	20.48	226.502	23.55	24	Pass
64	5320	20.66	20.55	229.914	23.62	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.47	15.23	68.58	18.36	30	Pass
46	5230	25.67	25.31	708.603	28.50	30	Pass
54	5270	20.66	20.57	230.438	23.63	24	Pass
62	5310	14.29	14.07	52.38	17.19	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.14	15.98	80.743	19.07	30	Pass
58	5290	14.30	14.21	53.279	17.27	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.78	23.41	458.062	26.61	30	Pass
40	5200	25.41	25.03	665.956	28.23	30	Pass
48	5240	25.23	24.82	636.816	28.04	30	Pass
52	5260	20.69	20.54	230.46	23.63	24	Pass
60	5300	20.77	20.62	234.744	23.71	24	Pass
64	5320	20.82	20.70	238.271	23.77	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.63	15.38	71.074	18.52	30	Pass
46	5230	25.84	25.46	735.268	28.66	30	Pass
54	5270	20.84	20.72	239.371	23.79	24	Pass
62	5310	14.44	14.21	54.16	17.34	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.31	16.13	83.777	19.23	30	Pass
58	5290	14.48	14.37	55.407	17.44	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the output power limit shall not be reduced.

NSS 2

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.92	21.63	301.142	24.79	30	Pass
40	5200	25.12	24.89	633.406	28.02	30	Pass
48	5240	25.23	24.91	643.168	28.08	30	Pass
52	5260	20.52	20.42	222.874	23.48	24	Pass
60	5300	20.53	20.36	221.622	23.46	24	Pass
64	5320	20.54	20.48	224.926	23.52	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.01	16.86	98.763	19.95	30	Pass
46	5230	25.10	24.80	625.589	27.96	30	Pass
54	5270	20.52	20.46	223.893	23.50	24	Pass
62	5310	15.22	15.04	65.181	18.14	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.04	21.74	309.235	24.90	30	Pass
40	5200	25.25	25.01	651.922	28.14	30	Pass
48	5240	25.34	25.03	660.399	28.20	30	Pass
52	5260	20.65	20.54	229.385	23.61	24	Pass
60	5300	20.66	20.47	227.842	23.58	24	Pass
64	5320	20.71	20.60	232.576	23.67	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.14	16.99	101.764	20.08	30	Pass
46	5230	25.23	24.92	643.882	28.09	30	Pass
54	5270	20.66	20.59	230.964	23.64	24	Pass
62	5310	15.35	15.17	67.162	18.27	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	14.24	14.07	52.073	17.17	30	Pass
58	5290	15.71	15.63	73.799	18.68	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.18	21.87	319.012	25.04	30	Pass
40	5200	25.40	25.13	672.574	28.28	30	Pass
48	5240	25.48	25.16	681.278	28.33	30	Pass
52	5260	20.75	20.66	235.263	23.72	24	Pass
60	5300	20.79	20.61	235.03	23.71	24	Pass
64	5320	20.85	20.72	239.651	23.80	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.32	17.14	105.712	20.24	30	Pass
46	5230	25.40	25.08	668.844	28.25	30	Pass
54	5270	20.79	20.71	237.711	23.76	24	Pass
62	5310	15.38	15.29	68.321	18.35	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	14.37	14.19	53.595	17.29	30	Pass
58	5290	15.83	15.76	75.953	18.81	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.59 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.04	21.74	309.235	24.90	30	Pass
40	5200	25.25	25.01	651.922	28.14	30	Pass
48	5240	25.34	25.03	660.399	28.20	30	Pass
52	5260	20.65	20.54	229.385	23.61	24	Pass
60	5300	20.66	20.47	227.842	23.58	24	Pass
64	5320	20.71	20.60	232.576	23.67	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.14	16.99	101.764	20.08	30	Pass
46	5230	25.23	24.92	643.882	28.09	30	Pass
54	5270	20.66	20.59	230.964	23.64	24	Pass
62	5310	15.35	15.17	67.162	18.27	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	14.24	14.07	52.073	17.17	30	Pass
58	5290	15.71	15.63	73.799	18.68	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.18	21.87	319.012	25.04	30	Pass
40	5200	25.40	25.13	672.574	28.28	30	Pass
48	5240	25.48	25.16	681.278	28.33	30	Pass
52	5260	20.75	20.66	235.263	23.72	24	Pass
60	5300	20.79	20.61	235.03	23.71	24	Pass
64	5320	20.85	20.72	239.651	23.80	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.32	17.14	105.712	20.24	30	Pass
46	5230	25.40	25.08	668.844	28.25	30	Pass
54	5270	20.79	20.71	237.711	23.76	24	Pass
62	5310	15.38	15.29	68.321	18.35	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	14.37	14.19	53.595	17.29	30	Pass
58	5290	15.83	15.76	75.953	18.81	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the output power limit shall not be reduced.

5500 ~ 5720MHz & 5745 ~ 5825MHz:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.73	15.99	15.58	15.97	152.808	21.84	24	Pass
116	5580	15.74	16.06	15.64	15.81	152.612	21.84	24	Pass
140	5700	15.70	15.89	15.51	15.73	148.943	21.73	24	Pass
*144 (U-NII-2C)	5720	14.07	14.30	14.28	14.44	119.426	20.77	22.84	Pass
*144 (U-NII-3)	5720	8.74	8.86	8.98	8.97	34.555	15.39	30	Pass
149	5745	23.77	23.46	23.52	23.27	897.281	29.53	30	Pass
157	5785	23.71	23.86	23.76	23.57	943.377	29.75	30	Pass
165	5825	23.01	23.74	23.85	23.47	901.57	29.55	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

NSS 1

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.31	15.54	15.43	15.53	140.413	21.47	24	Pass
116	5580	15.43	15.61	15.55	15.69	144.266	21.59	24	Pass
140	5700	14.17	14.35	14.27	14.41	107.684	20.32	24	Pass
*144 (U-NII-2C)	5720	13.52	13.92	13.79	13.85	119.783	20.78	23.01	Pass
*144 (U-NII-3)	5720	9.18	9.59	9.45	9.48	44.044	16.44	30	Pass
149	5745	23.50	23.18	23.26	23.01	843.664	29.26	30	Pass
157	5785	23.43	23.57	23.52	23.33	887.986	29.48	30	Pass
165	5825	23.54	23.34	23.37	23.03	859.897	29.34	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.37	12.63	12.30	12.33	69.664	18.43	24	Pass
110	5550	17.24	17.48	17.44	17.55	221.29	23.45	24	Pass
134	5670	17.09	17.46	17.47	17.58	220.013	23.42	24	Pass
*142 (U-NII-2C)	5710	15.82	16.37	16.16	16.31	210.584	23.23	24	Pass
*142 (U-NII-3)	5710	5.45	5.82	5.65	5.65	18.658	12.71	30	Pass
151	5755	23.54	23.14	23.03	23.47	855.247	29.32	30	Pass
159	5795	23.54	23.10	23.01	23.49	853.461	29.31	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.43	15.68	15.56	15.65	144.6	21.60	24	Pass
116	5580	15.54	15.75	15.68	15.81	148.483	21.72	24	Pass
140	5700	14.29	14.47	14.40	14.55	110.896	20.45	24	Pass
*144 (U-NII-2C)	5720	13.63	14.04	13.91	13.98	123.144	20.90	23.01	Pass
*144 (U-NII-3)	5720	9.29	9.71	9.57	9.61	45.28	16.56	30	Pass
149	5745	23.63	23.30	23.39	23.12	867.86	29.38	30	Pass
157	5785	23.55	23.70	23.65	23.45	913.936	29.61	30	Pass
165	5825	23.66	23.46	23.50	23.14	884.028	29.46	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.50	12.77	12.42	12.44	71.703	18.56	24	Pass
110	5550	17.38	17.61	17.55	17.67	227.743	23.57	24	Pass
134	5670	17.21	17.59	17.58	17.70	226.177	23.54	24	Pass
*142 (U-NII-2C)	5710	15.93	16.49	16.28	16.44	216.498	23.35	24	Pass
*142 (U-NII-3)	5710	5.56	5.94	5.77	5.78	19.181	12.83	30	Pass
151	5755	23.67	23.25	23.15	23.60	879.783	29.44	30	Pass
159	5795	23.70	23.22	23.12	23.62	879.577	29.44	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.21	12.62	12.36	12.54	70.081	18.46	24	Pass
122	5610	17.21	17.51	17.30	17.46	218.387	23.39	24	Pass
*138 (U-NII-2C)	5690	16.10	16.61	16.50	16.52	224.243	23.51	24	Pass
*138 (U-NII-3)	5690	2.11	2.28	2.37	2.15	8.51	9.30	30	Pass
155	5775	21.13	21.53	21.34	21.45	547.732	27.39	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	9.36	9.65	9.45	9.60	35.786	15.54	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.58	15.85	15.72	15.80	149.944	21.76	24	Pass
116	5580	15.69	15.92	15.84	15.98	154.151	21.88	24	Pass
140	5700	14.45	14.60	14.55	14.71	114.792	20.60	24	Pass
*144 (U-NII-2C)	5720	13.74	14.16	14.03	14.11	126.6	21.02	23.01	Pass
*144 (U-NII-3)	5720	9.40	9.83	9.69	9.74	46.551	16.68	30	Pass
149	5745	23.79	23.47	23.54	23.28	900.42	29.54	30	Pass
157	5785	23.72	23.86	23.80	23.59	947.169	29.76	30	Pass
165	5825	23.83	23.61	23.66	23.28	916.249	29.62	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.64	12.95	12.57	12.60	74.358	18.71	24	Pass
110	5550	17.53	17.78	17.71	17.83	236.297	23.73	24	Pass
134	5670	17.36	17.76	17.74	17.87	234.818	23.71	24	Pass
*142 (U-NII-2C)	5710	16.04	16.61	16.40	16.57	222.578	23.47	24	Pass
*142 (U-NII-3)	5710	5.67	6.06	5.89	5.91	19.719	12.95	30	Pass
151	5755	23.85	23.41	23.30	23.77	913.97	29.61	30	Pass
159	5795	23.86	23.34	23.23	23.69	903.256	29.56	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.37	12.79	12.51	12.71	72.757	18.62	24	Pass
122	5610	17.36	17.69	17.46	17.63	226.861	23.56	24	Pass
*138 (U-NII-2C)	5690	16.21	16.73	16.62	16.65	230.539	23.63	24	Pass
*138 (U-NII-3)	5690	2.22	2.40	2.49	2.28	8.748	9.42	30	Pass
155	5775	21.28	21.68	21.48	21.62	567.324	27.54	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	9.51	9.82	9.60	9.77	37.131	15.70	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.43	15.68	15.56	15.65	144.6	21.60	22.41	Pass
116	5580	15.54	15.75	15.68	15.81	148.483	21.72	22.41	Pass
140	5700	14.29	14.47	14.40	14.55	110.896	20.45	22.41	Pass
*144 (U-NII-2C)	5720	13.63	14.04	13.91	13.98	123.144	20.90	21.42	Pass
*144 (U-NII-3)	5720	9.29	9.71	9.57	9.61	45.28	16.56	29.01	Pass
149	5745	22.89	22.57	22.64	22.38	731.889	28.64	29.01	Pass
157	5785	22.92	23.06	23.00	22.79	787.82	28.96	29.01	Pass
165	5825	23.03	22.81	22.86	22.48	762.102	28.82	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi> 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.50	12.77	12.42	12.44	71.703	18.56	22.41	Pass
110	5550	15.98	16.21	16.15	16.27	164.985	22.17	22.41	Pass
134	5670	15.81	16.19	16.18	16.30	163.851	22.14	22.41	Pass
*142 (U-NII-2C)	5710	14.38	14.94	14.73	14.89	151.514	21.80	22.41	Pass
*142 (U-NII-3)	5710	4.01	4.39	4.32	4.23	13.502	11.30	29.01	Pass
151	5755	22.77	22.35	22.25	22.70	715.114	28.54	29.01	Pass
159	5795	22.80	22.39	22.27	22.72	719.65	28.57	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi> 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.21	12.62	12.36	12.54	70.081	18.46	22.41	Pass
122	5610	15.81	16.11	15.90	16.06	158.208	21.99	22.41	Pass
*138 (U-NII-2C)	5690	14.45	14.96	14.85	14.87	153.363	21.86	22.41	Pass
*138 (U-NII-3)	5690	0.46	0.63	0.72	0.50	5.82	7.65	29.01	Pass
155	5775	21.13	21.53	21.34	21.45	547.732	27.39	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi> 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	9.36	9.65	9.45	9.60	35.786	15.54	22.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	15.58	15.85	15.72	15.80	149.944	21.76	22.41	Pass
116	5580	15.69	15.92	15.84	15.98	154.151	21.88	22.41	Pass
140	5700	14.45	14.60	14.55	14.71	114.792	20.60	22.41	Pass
*144 (U-NII-2C)	5720	13.74	14.16	14.03	14.11	126.600	21.02	21.42	Pass
*144 (U-NII-3)	5720	9.40	9.83	9.69	9.74	46.551	16.68	29.01	Pass
149	5745	22.89	22.57	22.64	22.38	731.889	28.64	29.01	Pass
157	5785	22.92	23.06	23.00	22.79	787.820	28.96	29.01	Pass
165	5825	23.03	22.81	22.86	22.48	762.102	28.82	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi> 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.64	12.95	12.57	12.60	74.358	18.71	22.41	Pass
110	5550	16.13	16.38	16.31	16.43	171.182	22.33	22.41	Pass
134	5670	15.96	16.36	16.34	16.47	170.111	22.31	22.41	Pass
*142 (U-NII-2C)	5710	14.49	15.06	14.85	15.02	155.77	21.92	22.41	Pass
*142 (U-NII-3)	5710	4.12	4.51	4.44	4.36	13.88	11.42	29.01	Pass
151	5755	22.95	22.51	22.40	22.87	742.902	28.71	29.01	Pass
159	5795	22.96	22.54	22.43	22.89	746.691	28.73	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.37	12.79	12.51	12.71	72.757	18.62	22.41	Pass
122	5610	15.96	16.29	16.06	16.23	164.346	22.16	22.41	Pass
*138 (U-NII-2C)	5690	14.56	15.08	14.97	15.00	157.668	21.98	22.41	Pass
*138 (U-NII-3)	5690	0.57	0.75	0.84	0.63	5.983	7.77	29.01	Pass
155	5775	21.28	21.68	21.48	21.62	567.324	27.54	29.01	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].
4. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.99-6) = 29.01 dBm.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	9.51	9.82	9.60	9.77	37.131	15.70	22.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.59-6)].

NSS 2

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.68	16.98	16.86	16.91	194.067	22.88	24	Pass
116	5580	16.72	17.06	16.94	16.97	197.01	22.94	24	Pass
140	5700	13.22	13.45	13.38	13.42	86.876	19.39	24	Pass
*144 (U-NII-2C)	5720	14.81	15.13	15.21	15.32	165.062	22.18	23.01	Pass
*144 (U-NII-3)	5720	10.59	11.01	10.75	10.78	60.813	17.84	30	Pass
149	5745	23.93	23.13	22.98	23.14	857.434	29.33	30	Pass
157	5785	23.92	23.10	22.94	23.12	852.683	29.31	30	Pass
165	5825	23.88	23.06	22.95	23.14	849.95	29.29	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.70	12.96	12.90	12.92	77.477	18.89	24	Pass
110	5550	17.21	17.69	17.61	17.64	227.104	23.56	24	Pass
134	5670	17.29	17.63	17.56	17.60	226.083	23.54	24	Pass
*142 (U-NII-2C)	5710	16.03	16.21	16.27	16.24	209.712	23.22	24	Pass
*142 (U-NII-3)	5710	5.58	5.63	5.80	5.60	18.54	12.68	30	Pass
151	5755	23.61	23.18	23.16	23.48	867.442	29.38	30	Pass
159	5795	23.59	23.16	23.14	23.45	862.946	29.36	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.79	17.11	16.98	17.05	199.745	23.00	24	Pass
116	5580	16.84	17.20	17.07	17.12	203.243	23.08	24	Pass
140	5700	13.35	13.57	13.51	13.54	89.411	19.51	24	Pass
*144 (U-NII-2C)	5720	14.92	15.25	15.33	15.45	169.698	22.30	23.01	Pass
*144 (U-NII-3)	5720	10.70	11.13	10.87	10.91	62.518	17.96	30	Pass
149	5745	24.06	23.26	23.10	23.27	883.017	29.46	30	Pass
157	5785	24.04	23.23	23.06	23.26	878.029	29.44	30	Pass
165	5825	24.02	23.20	23.08	23.26	876.35	29.43	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.82	13.10	13.04	13.05	79.881	19.02	24	Pass
110	5550	17.35	17.82	17.73	17.77	233.993	23.69	24	Pass
134	5670	17.42	17.75	17.69	17.74	232.952	23.67	24	Pass
*142 (U-NII-2C)	5710	16.14	16.33	16.39	16.37	215.593	23.34	24	Pass
*142 (U-NII-3)	5710	5.69	5.75	5.92	5.73	19.06	12.80	30	Pass
151	5755	23.75	23.30	23.29	23.61	893.853	29.51	30	Pass
159	5795	23.72	23.28	23.25	23.58	887.702	29.48	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.30	12.69	12.45	12.78	72.107	18.58	24	Pass
122	5610	17.28	17.65	17.50	17.71	226.921	23.56	24	Pass
*138 (U-NII-2C)	5690	16.01	16.60	16.44	16.45	221.291	23.45	24	Pass
*138 (U-NII-3)	5690	1.93	2.57	2.33	2.40	8.675	9.38	30	Pass
155	5775	21.86	22.13	21.68	21.84	616.755	27.90	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	10.34	10.71	10.56	10.81	46.017	16.63	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.93	17.26	17.14	17.20	206.77	23.15	24	Pass
116	5580	16.99	17.34	17.22	17.28	210.383	23.23	24	Pass
140	5700	13.51	13.72	13.65	13.69	92.552	19.66	24	Pass
*144 (U-NII-2C)	5720	15.03	15.37	15.45	15.58	174.465	22.42	23.01	Pass
*144 (U-NII-3)	5720	10.81	11.25	10.99	11.04	64.272	18.08	30	Pass
149	5745	24.23	23.42	23.23	23.42	914.8	29.61	30	Pass
157	5785	24.22	23.38	23.20	23.43	911.234	29.60	30	Pass
165	5825	24.19	23.35	23.22	23.42	908.374	29.58	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.98	13.25	13.18	13.21	82.734	19.18	24	Pass
110	5550	17.49	17.97	17.89	17.92	242.228	23.84	24	Pass
134	5670	17.57	17.91	17.86	17.90	241.703	23.83	24	Pass
*142 (U-NII-2C)	5710	16.25	16.45	16.51	16.50	221.64	23.46	24	Pass
*142 (U-NII-3)	5710	5.80	5.87	6.04	5.86	19.594	12.92	30	Pass
151	5755	23.92	23.44	23.45	23.76	926.398	29.67	30	Pass
159	5795	23.89	23.42	23.40	23.74	920.06	29.64	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.45	12.86	12.60	12.94	74.775	18.74	24	Pass
122	5610	17.42	17.82	17.64	17.88	235.194	23.71	24	Pass
*138 (U-NII-2C)	5690	16.12	16.72	16.56	16.58	227.504	23.57	24	Pass
*138 (U-NII-3)	5690	2.04	2.69	2.45	2.53	8.919	9.50	30	Pass
155	5775	22.02	22.28	21.82	21.99	638.445	28.05	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	10.48	10.88	10.70	10.96	47.638	16.78	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.79	17.11	16.98	17.05	199.745	23.00	24	Pass
116	5580	16.84	17.20	17.07	17.12	203.243	23.08	24	Pass
140	5700	13.35	13.57	13.51	13.54	89.411	19.51	24	Pass
*144 (U-NII-2C)	5720	14.92	15.25	15.33	15.45	169.698	22.30	23.01	Pass
*144 (U-NII-3)	5720	10.70	11.13	10.87	10.91	62.518	17.96	30	Pass
149	5745	24.06	23.26	23.10	23.27	883.017	29.46	30	Pass
157	5785	24.04	23.23	23.06	23.26	878.029	29.44	30	Pass
165	5825	24.02	23.20	23.08	23.26	876.35	29.43	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.82	13.10	13.04	13.05	79.881	19.02	24	Pass
110	5550	17.35	17.82	17.73	17.77	233.993	23.69	24	Pass
134	5670	17.42	17.75	17.69	17.74	232.952	23.67	24	Pass
*142 (U-NII-2C)	5710	16.14	16.33	16.39	16.37	215.593	23.34	24	Pass
*142 (U-NII-3)	5710	5.69	5.75	5.92	5.73	19.06	12.80	30	Pass
151	5755	23.75	23.30	23.29	23.61	893.853	29.51	30	Pass
159	5795	23.72	23.28	23.25	23.58	887.702	29.48	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.30	12.69	12.45	12.78	72.107	18.58	24	Pass
122	5610	17.28	17.65	17.50	17.71	226.921	23.56	24	Pass
*138 (U-NII-2C)	5690	16.01	16.60	16.44	16.45	221.291	23.45	24	Pass
*138 (U-NII-3)	5690	1.93	2.57	2.33	2.40	8.675	9.38	30	Pass
155	5775	21.86	22.13	21.68	21.84	616.755	27.90	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	10.34	10.71	10.56	10.81	46.017	16.63	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.93	17.26	17.14	17.20	206.77	23.15	24	Pass
116	5580	16.99	17.34	17.22	17.28	210.383	23.23	24	Pass
140	5700	13.51	13.72	13.65	13.69	92.552	19.66	24	Pass
*144 (U-NII-2C)	5720	15.03	15.37	15.45	15.58	174.465	22.42	23.01	Pass
*144 (U-NII-3)	5720	10.81	11.25	10.99	11.04	64.272	18.08	30	Pass
149	5745	24.23	23.42	23.23	23.42	914.8	29.61	30	Pass
157	5785	24.22	23.38	23.20	23.43	911.234	29.60	30	Pass
165	5825	24.19	23.35	23.22	23.42	908.374	29.58	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	12.98	13.25	13.18	13.21	82.734	19.18	24	Pass
110	5550	17.49	17.97	17.89	17.92	242.228	23.84	24	Pass
134	5670	17.57	17.91	17.86	17.90	241.703	23.83	24	Pass
*142 (U-NII-2C)	5710	16.25	16.45	16.51	16.50	221.64	23.46	24	Pass
*142 (U-NII-3)	5710	5.80	5.87	6.04	5.86	19.594	12.92	30	Pass
151	5755	23.92	23.44	23.45	23.76	926.398	29.67	30	Pass
159	5795	23.89	23.42	23.40	23.74	920.06	29.64	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.45	12.86	12.60	12.94	74.775	18.74	24	Pass
122	5610	17.42	17.82	17.64	17.88	235.194	23.71	24	Pass
*138 (U-NII-2C)	5690	16.12	16.72	16.56	16.58	227.504	23.57	24	Pass
*138 (U-NII-3)	5690	2.04	2.69	2.45	2.53	8.919	9.50	30	Pass
155	5775	22.02	22.28	21.82	21.99	638.445	28.05	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	10.48	10.88	10.70	10.96	47.638	16.78	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.

NSS 4

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.17	16.50	16.31	16.41	172.577	22.37	24	Pass
116	5580	17.05	17.35	17.30	17.39	213.555	23.30	24	Pass
140	5700	12.27	12.41	12.37	12.44	69.081	18.39	24	Pass
*144 (U-NII-2C)	5720	14.84	15.23	15.37	15.32	166.067	22.20	23.04	Pass
*144 (U-NII-3)	5720	10.49	10.86	10.92	10.89	60.275	17.80	30	Pass
149	5745	23.53	23.63	23.56	23.36	899.856	29.54	30	Pass
157	5785	23.47	23.54	23.50	23.31	886.436	29.48	30	Pass
165	5825	23.44	23.55	23.51	23.34	887.428	29.48	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	13.30	13.59	13.38	13.52	88.503	19.47	24	Pass
110	5550	17.24	17.60	17.40	17.52	221.958	23.46	24	Pass
134	5670	17.28	17.61	17.55	17.55	224.904	23.52	24	Pass
*142 (U-NII-2C)	5710	15.77	16.12	16.40	16.32	208.028	23.18	24	Pass
*142 (U-NII-3)	5710	5.31	5.61	5.84	5.72	18.392	12.65	30	Pass
151	5755	23.25	23.04	23.28	23.36	842.306	29.25	30	Pass
159	5795	23.22	23.01	23.31	23.39	842.442	29.26	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.28	16.64	16.44	16.54	177.731	22.50	24	Pass
116	5580	17.16	17.48	17.42	17.53	219.807	23.42	24	Pass
140	5700	12.39	12.54	12.49	12.58	71.141	18.52	24	Pass
*144 (U-NII-2C)	5720	14.95	15.35	15.49	15.45	170.731	22.32	23.04	Pass
*144 (U-NII-3)	5720	10.60	10.98	11.04	11.02	61.967	17.92	30	Pass
149	5745	23.67	23.77	23.69	23.48	927.768	29.67	30	Pass
157	5785	23.60	23.69	23.63	23.42	913.431	29.61	30	Pass
165	5825	23.57	23.70	23.65	23.46	915.492	29.62	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	13.41	13.72	13.50	13.66	91.093	19.59	24	Pass
110	5550	17.37	17.75	17.52	17.65	228.846	23.60	24	Pass
134	5670	17.41	17.74	17.68	17.70	232.008	23.66	24	Pass
*142 (U-NII-2C)	5710	15.88	16.24	16.52	16.45	213.872	23.30	24	Pass
*142 (U-NII-3)	5710	5.42	5.73	5.96	5.85	18.909	12.77	30	Pass
151	5755	23.37	23.15	23.41	23.50	866.961	29.38	30	Pass
159	5795	23.35	23.13	23.45	23.54	869.114	29.39	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.32	12.67	12.56	12.77	72.507	18.60	24	Pass
122	5610	17.32	17.76	17.58	17.79	231.052	23.64	24	Pass
*138 (U-NII-2C)	5690	16.08	16.51	16.53	16.55	223.01	23.48	24	Pass
*138 (U-NII-3)	5690	2.14	2.37	2.35	2.29	8.61	9.35	30	Pass
155	5775	21.10	21.76	21.75	21.45	568.054	27.54	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	11.34	11.73	11.60	11.70	57.754	17.62	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.43	16.82	16.59	16.70	184.415	22.66	24	Pass
116	5580	17.31	17.63	17.58	17.69	227.798	23.58	24	Pass
140	5700	12.53	12.70	12.64	12.75	73.729	18.68	24	Pass
*144 (U-NII-2C)	5720	15.06	15.47	15.61	15.58	175.526	22.44	23.04	Pass
*144 (U-NII-3)	5720	10.71	11.10	11.16	11.15	63.707	18.04	30	Pass
149	5745	23.82	23.95	23.85	23.62	962.109	29.83	30	Pass
157	5785	23.76	23.86	23.79	23.58	948.27	29.77	30	Pass
165	5825	23.73	23.87	23.83	23.61	950.99	29.78	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the directional gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	13.56	13.89	13.66	13.82	94.516	19.76	24	Pass
110	5550	17.52	17.93	17.67	17.81	237.454	23.76	24	Pass
134	5670	17.56	17.91	17.84	17.88	241.008	23.82	24	Pass
*142 (U-NII-2C)	5710	15.99	16.36	16.64	16.58	219.88	23.42	24	Pass
*142 (U-NII-3)	5710	5.53	5.85	6.08	5.98	19.44	12.89	30	Pass
151	5755	23.53	23.30	23.57	23.68	900.076	29.54	30	Pass
159	5795	23.51	23.28	23.62	23.70	901.769	29.55	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.47	12.84	12.71	12.95	75.279	18.77	24	Pass
122	5610	17.47	17.94	17.73	17.96	239.887	23.80	24	Pass
*138 (U-NII-2C)	5690	16.19	16.63	16.65	16.67	229.136	23.60	24	Pass
*138 (U-NII-3)	5690	2.25	2.49	2.47	2.41	8.846	9.47	30	Pass
155	5775	21.25	21.93	21.81	21.60	585.556	27.68	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the maximum gain is 3.72 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	11.49	11.91	11.76	11.87	59.995	17.78	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.28	16.64	16.44	16.54	177.731	22.50	24	Pass
116	5580	17.16	17.48	17.42	17.53	219.807	23.42	24	Pass
140	5700	12.39	12.54	12.49	12.58	71.141	18.52	24	Pass
*144 (U-NII-2C)	5720	14.95	15.35	15.49	15.45	172.586	22.37	23.01	Pass
*144 (U-NII-3)	5720	10.60	10.98	11.04	11.02	62.641	17.97	30	Pass
149	5745	23.67	23.77	23.69	23.48	927.768	29.67	30	Pass
157	5785	23.60	23.69	23.63	23.42	913.431	29.61	30	Pass
165	5825	23.57	23.70	23.65	23.46	915.492	29.62	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 4.91 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	13.41	13.72	13.50	13.66	91.093	19.59	24	Pass
110	5550	17.37	17.75	17.52	17.65	228.846	23.60	24	Pass
134	5670	17.41	17.74	17.68	17.70	232.008	23.66	24	Pass
*142 (U-NII-2C)	5710	15.88	16.24	16.52	16.45	213.872	23.30	24	Pass
*142 (U-NII-3)	5710	5.42	5.73	5.96	5.85	18.909	12.77	30	Pass
151	5755	23.37	23.15	23.41	23.50	866.961	29.38	30	Pass
159	5795	23.35	23.13	23.45	23.54	869.114	29.39	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 2.33 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.32	12.67	12.56	12.77	72.507	18.60	24	Pass
122	5610	17.32	17.76	17.58	17.79	231.052	23.64	24	Pass
*138 (U-NII-2C)	5690	16.08	16.51	16.53	16.55	223.01	23.48	24	Pass
*138 (U-NII-3)	5690	2.14	2.37	2.35	2.29	8.61	9.35	30	Pass
155	5775	21.10	21.76	21.75	21.45	568.054	27.54	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 2.33 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	11.34	11.73	11.60	11.70	57.754	17.62	24	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	16.43	16.82	16.59	16.70	184.415	22.66	24	Pass
116	5580	17.31	17.63	17.58	17.69	227.798	23.58	24	Pass
140	5700	12.53	12.70	12.64	12.75	73.729	18.68	24	Pass
*144 (U-NII-2C)	5720	15.06	15.47	15.61	15.58	175.526	22.44	23.04	Pass
*144 (U-NII-3)	5720	10.71	11.10	11.16	11.15	63.707	18.04	30	Pass
149	5745	23.82	23.95	23.85	23.62	962.109	29.83	30	Pass
157	5785	23.76	23.86	23.79	23.58	948.27	29.77	30	Pass
165	5825	23.73	23.87	23.83	23.61	950.99	29.78	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 2.33 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	13.56	13.89	13.66	13.82	94.516	19.76	24	Pass
110	5550	17.52	17.93	17.67	17.81	237.454	23.76	24	Pass
134	5670	17.56	17.91	17.84	17.88	241.008	23.82	24	Pass
*142 (U-NII-2C)	5710	15.99	16.36	16.64	16.58	219.88	23.42	24	Pass
*142 (U-NII-3)	5710	5.53	5.85	6.08	5.98	19.44	12.89	30	Pass
151	5755	23.53	23.30	23.57	23.68	900.076	29.54	30	Pass
159	5795	23.51	23.28	23.62	23.70	901.769	29.55	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 2.33 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	12.47	12.84	12.71	12.95	75.279	18.77	24	Pass
122	5610	17.47	17.94	17.73	17.96	239.887	23.80	24	Pass
*138 (U-NII-2C)	5690	16.19	16.63	16.65	16.67	229.136	23.60	24	Pass
*138 (U-NII-3)	5690	2.25	2.49	2.47	2.41	8.846	9.47	30	Pass
155	5775	21.25	21.93	21.81	21.60	585.556	27.68	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
2. Please refer to 3.2 section for directional gain
3. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the directional gain is 2.33 dBi< 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	11.49	11.91	11.76	11.87	59.995	17.78	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5180 ~ 5320MHz:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	7.96	7.18	0.47	11.07	17.00	Pass
40	5200	12.00	11.68	0.47	15.32	17.00	Pass
48	5240	11.84	11.51	0.47	15.16	17.00	Pass
52	5260	7.37	7.32	0.47	10.83	11.00	Pass
60	5300	7.36	7.27	0.47	10.80	11.00	Pass
64	5320	7.45	7.28	0.47	10.85	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the power density limit shall not be reduced.

NSS 1

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	9.99	9.62	0.26	13.08	17.00	Pass
40	5200	11.69	11.31	0.26	14.77	17.00	Pass
48	5240	11.55	11.05	0.26	14.58	17.00	Pass
52	5260	6.97	6.75	0.26	10.13	11.00	Pass
60	5300	7.02	6.85	0.26	10.21	11.00	Pass
64	5320	7.08	6.90	0.26	10.26	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	-1.01	-1.35	0.27	2.10	17.00	Pass
46	5230	9.08	8.86	0.27	12.25	17.00	Pass
54	5270	4.09	4.01	0.27	7.33	11.00	Pass
62	5310	-2.30	-2.48	0.27	0.89	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the power density limit shall not be reduced.

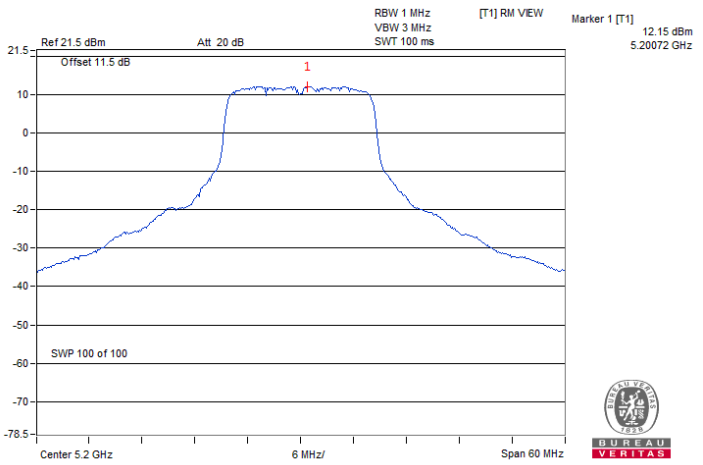
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	-3.31	-3.57	0.29	-0.14	17.00	Pass
58	5290	-5.23	-5.37	0.29	-2.00	11.00	Pass

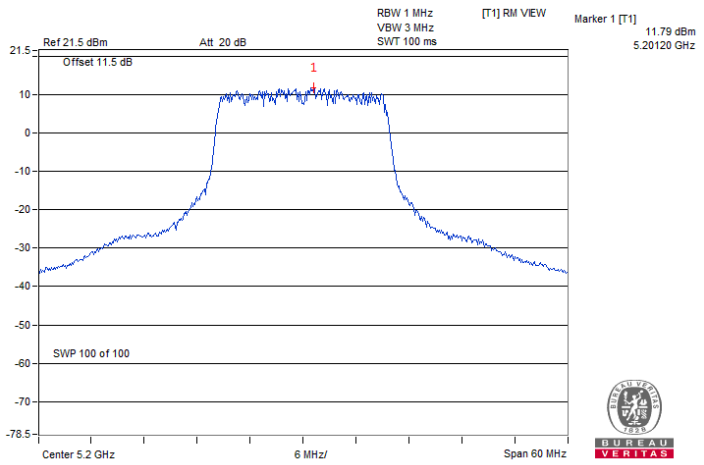
Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 5.68 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.69 dBi < 6 dBi, so the power density limit shall not be reduced.

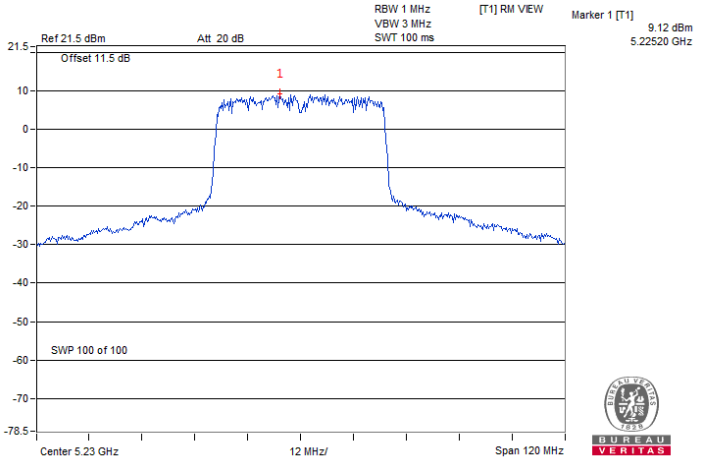
Spectrum Plot of Maximum Value



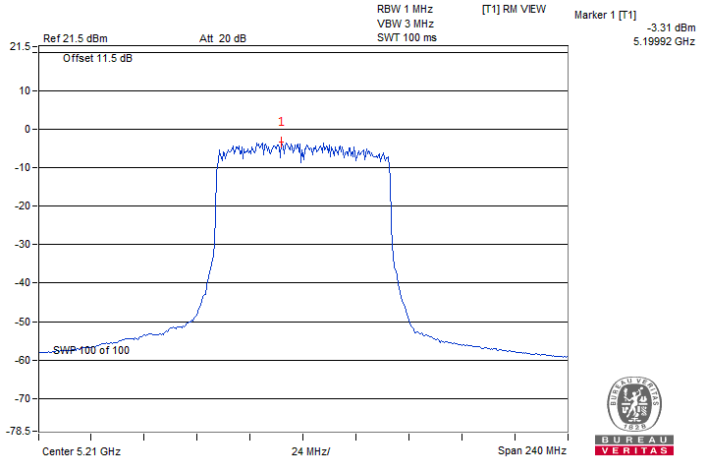
802.11a / Chain0 : CH 40



802.11ax (HE20) / Chain0 : CH 40



802.11ax (HE40) / Chain0 : CH 46



802.11ax (HE80) / Chain0 : CH 42

NSS 2

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	8.49	8.17	0.27	11.61	17.00	Pass
40	5200	11.72	11.38	0.27	14.83	17.00	Pass
48	5240	11.73	11.47	0.27	14.88	17.00	Pass
52	5260	7.00	6.92	0.27	10.24	11.00	Pass
60	5300	7.02	6.84	0.27	10.21	11.00	Pass
64	5320	7.12	6.94	0.27	10.31	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	0.60	0.41	0.30	3.82	17.00	Pass
46	5230	8.69	8.39	0.30	11.85	17.00	Pass
54	5270	4.03	4.00	0.30	7.33	11.00	Pass
62	5310	-1.32	-1.47	0.30	1.92	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the power density limit shall not be reduced.

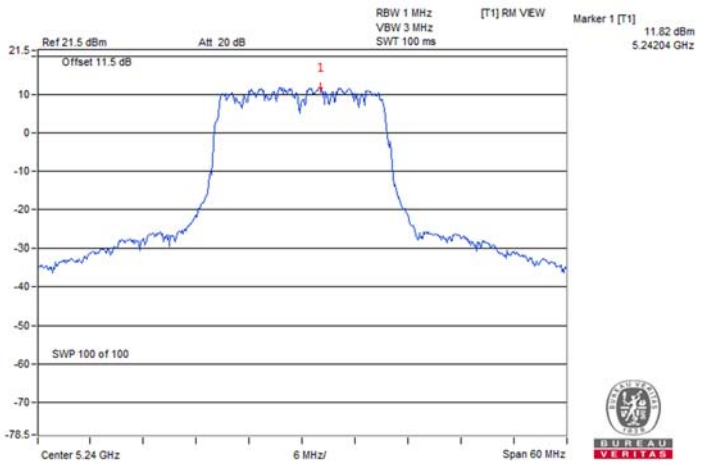
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	-5.33	-5.39	0.29	-2.06	17.00	Pass
58	5290	-3.90	-3.94	0.29	-0.62	11.00	Pass

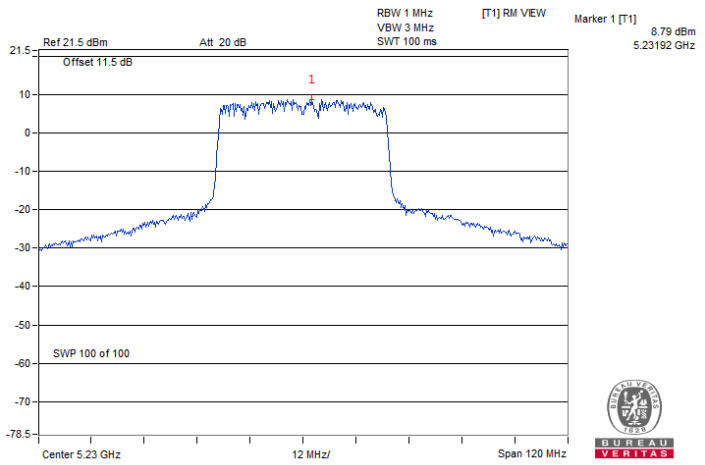
Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-1, the directional gain is 3.21 dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A, the directional gain is 3.54 dBi < 6 dBi, so the power density limit shall not be reduced.

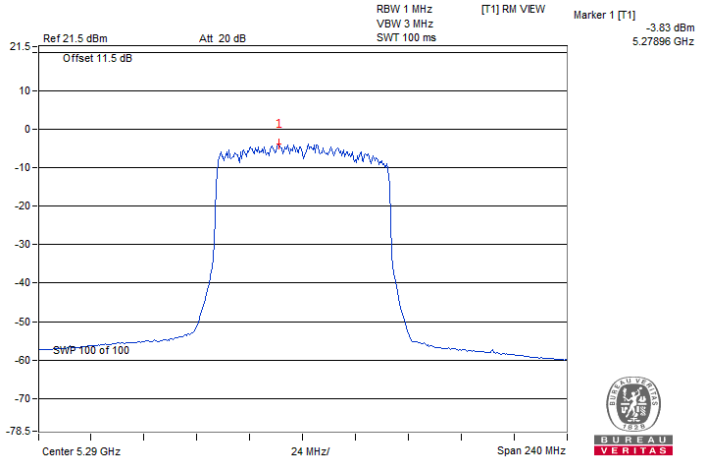
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain0 : CH 48



802.11ax (HE40) / Chain0 : CH 46



802.11ax (HE80) / Chain0 : CH 58

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5500 ~ 5720MHz & 5745 ~ 5825MHz:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	2.56	2.68	2.34	2.66	0.48	9.06	9.41	Pass
116	5580	2.58	2.87	2.37	2.48	0.48	9.08	9.41	Pass
140	5700	2.52	2.59	2.20	2.42	0.48	8.94	9.41	Pass
144 (U-NII-2C)	5720	2.19	2.59	2.46	2.71	0.48	8.99	9.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.59-6) = 9.41 dBm/MHz.

NSS 1

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	1.81	2.06	1.95	2.02	0.99	8.97	9.41	Pass
116	5580	1.90	2.18	2.01	2.22	0.99	9.09	9.41	Pass
140	5700	0.75	0.96	0.80	0.99	0.99	7.89	9.41	Pass
144 (U-NII-2C)	5720	1.96	2.20	2.14	2.38	0.99	9.18	9.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.59-6) = 9.41 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	-4.09	-3.76	-4.16	-4.17	1.04	3.02	9.41	Pass
110	5550	0.79	0.99	0.93	1.02	1.04	7.99	9.41	Pass
134	5670	0.59	0.99	0.97	1.08	1.04	7.97	9.41	Pass
142 (U-NII-2C)	5710	-0.09	0.20	0.29	0.42	1.04	7.27	9.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.59-6) = 9.41 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	-7.29	-6.90	-7.24	-6.99	1.05	-0.03	9.41	Pass
122	5610	-2.36	-2.04	-2.19	-2.01	1.05	4.92	9.41	Pass
138 (U-NII-2C)	5690	-3.26	-2.70	-2.84	-2.82	1.05	4.17	9.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.59-6) = 9.41 dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	-12.96	-12.68	-12.83	-12.75	0.68	-6.10	9.41	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 7.59 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.59-6) = 9.41 dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-5.85	-5.59	-5.75	-5.79	0.28	0.48	2.98	29.01	Pass
149	5745	4.01	3.73	3.78	3.59	9.8	0.48	12.50	29.01	Pass
157	5785	4.03	4.17	4.07	3.87	10.06	0.48	12.76	29.01	Pass
165	5825	4.09	3.88	3.90	3.63	9.9	0.48	12.60	29.01	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.99-6) = 29.01 dBm/500kHz.

NSS 1

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-7.92	-7.60	-7.67	-7.56	-1.66	0.99	1.55	29.01	Pass
149	5745	2.49	2.19	2.28	2.06	8.28	0.99	11.49	29.01	Pass
157	5785	2.47	2.66	2.61	2.35	8.54	0.99	11.75	29.01	Pass
165	5825	2.56	2.43	2.49	2.12	8.42	0.99	11.63	29.01	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.99-6) = 29.01 dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-11.46	-10.80	-10.82	-9.93	-4.7	1.04	-1.44	29.01	Pass
151	5755	-0.01	-0.48	-0.60	-0.03	5.75	1.04	9.01	29.01	Pass
159	5795	-0.06	-0.49	-0.60	-0.08	5.72	1.04	8.98	29.01	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.99-6) = 29.01 dBm/500kHz.

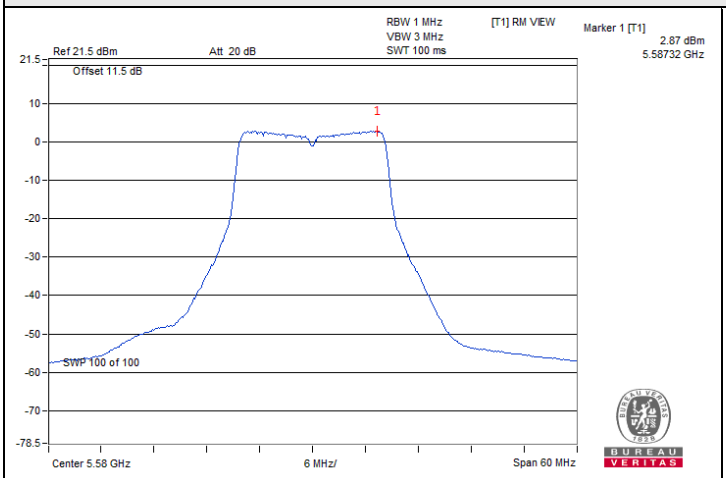
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-14.20	-13.15	-13.05	-13.92	-7.53	1.05	-4.26	29.01	Pass
155	5775	-8.11	-7.68	-7.89	-7.68	-1.82	1.05	1.45	29.01	Pass

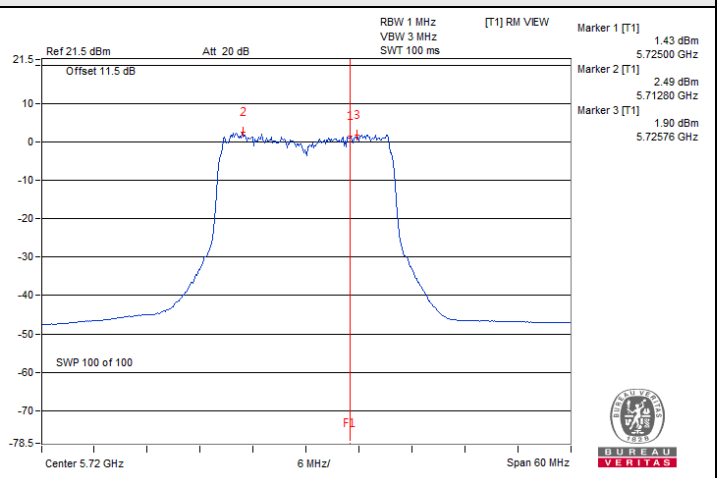
Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.99-6) = 29.01 dBm/500kHz.

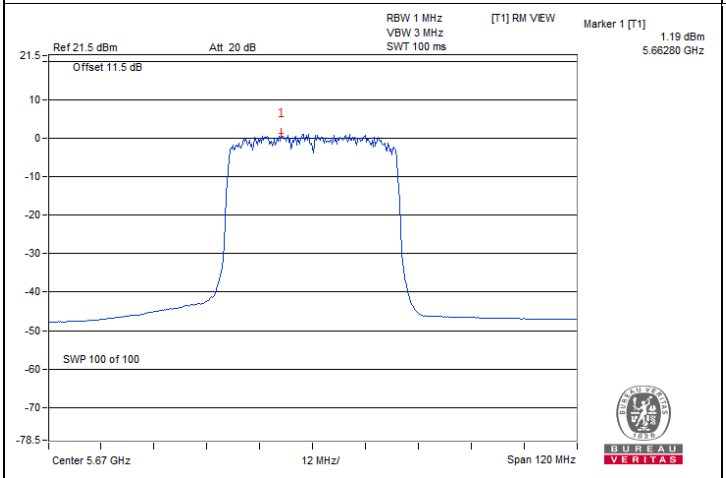
Spectrum Plot of Maximum Value



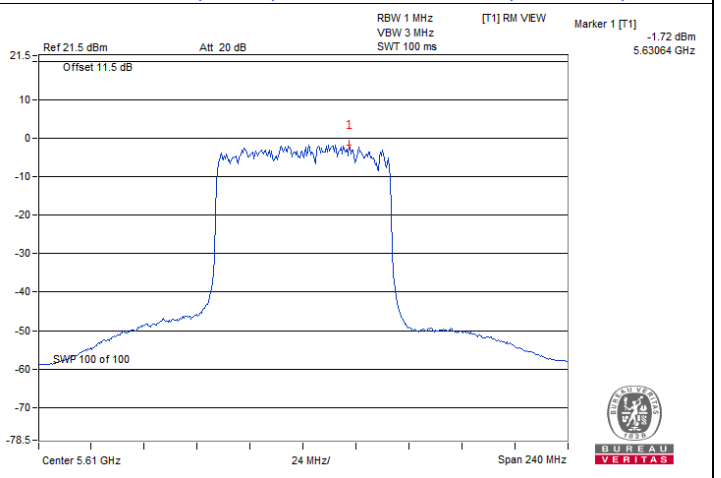
802.11a / Chain1 : CH 116



802.11ax (HE20) / Chain3 : CH 144 (U-NII-2C)

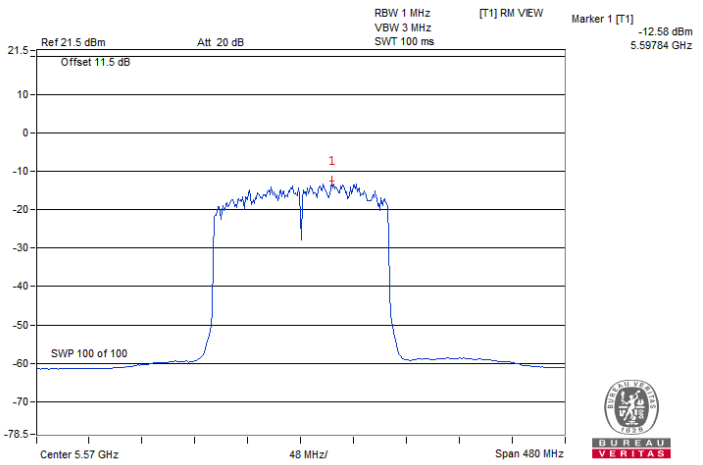


802.11ax (HE40) / Chain3 : CH 134

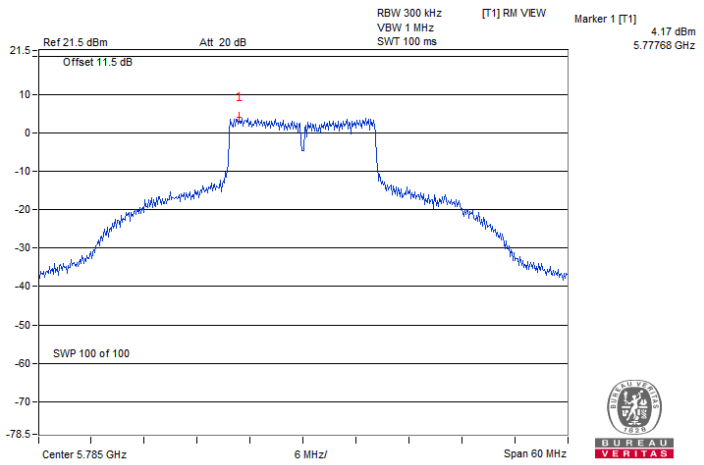


802.11ax (HE80) / Chain3 : CH 122

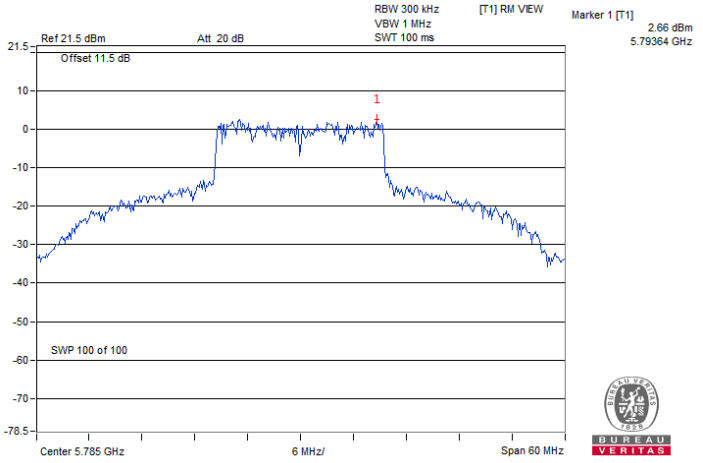
Spectrum Plot of Maximum Value



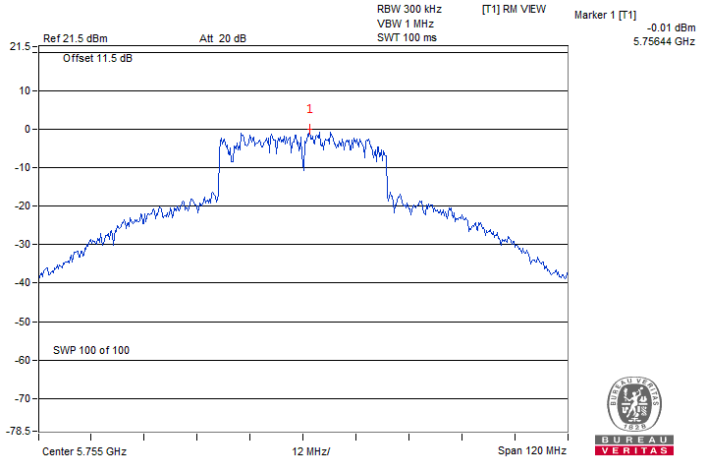
802.11ax (HE160) / Chain1 : CH 114



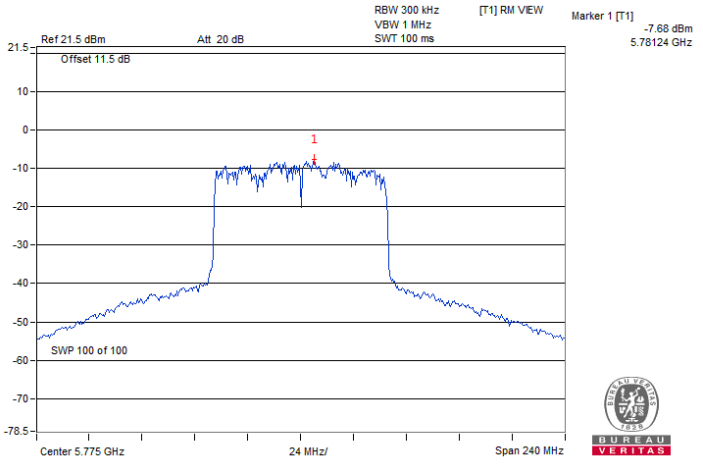
802.11a / Chain1 : CH 157



802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain0 : CH 151



802.11ax (HE80) / Chain1 : CH 155

NSS 2

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	3.25	3.57	3.46	3.48	1.03	10.49	11.00	Pass
116	5580	3.28	3.61	3.58	3.57	1.03	10.56	11.00	Pass
140	5700	-0.20	0.04	-0.04	0.03	1.03	7.01	11.00	Pass
144 (U-NII-2C)	5720	3.18	3.79	4.03	3.94	1.03	10.80	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	-3.70	-3.46	-3.51	-3.50	1.01	3.49	11.00	Pass
110	5550	0.76	1.30	1.17	1.35	1.01	8.18	11.00	Pass
134	5670	0.84	1.24	1.13	1.25	1.01	8.15	11.00	Pass
142 (U-NII-2C)	5710	0.50	0.67	0.62	0.48	1.01	7.60	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	-7.22	-6.80	-7.08	-6.59	1.05	0.15	11.00	Pass
122	5610	-2.26	-1.84	-2.06	-1.79	1.05	5.09	11.00	Pass
138 (U-NII-2C)	5690	-2.89	-2.63	-2.47	-2.32	1.05	4.50	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	-12.19	-11.79	-12.01	-11.69	0.78	-5.12	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 5.56 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-6.43	-5.76	-5.81	-5.66	0.12	1.03	3.37	30	Pass
149	5745	2.91	2.09	1.84	2.13	8.28	1.03	11.53	30	Pass
157	5785	2.96	2.04	1.87	2.12	8.29	1.03	11.54	30	Pass
165	5825	2.87	2.07	1.85	2.11	8.26	1.03	11.51	30	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 4.91 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-11.19	-11.03	-10.99	-11.15	-5.07	1.01	-1.84	30	Pass
151	5755	-0.70	-1.15	-1.15	-0.83	5.07	1.01	8.30	30	Pass
159	5795	-0.75	-1.14	-1.14	-0.89	5.04	1.01	8.27	30	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 4.91 dBi < 6 dBi, so the power density limit shall not be reduced.

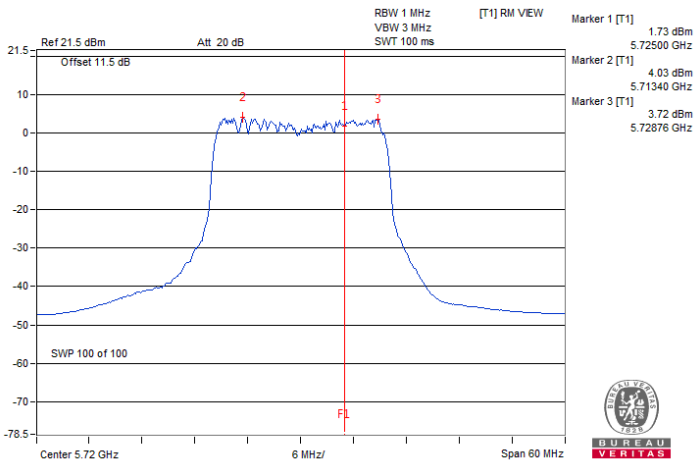
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-14.03	-13.81	-13.76	-13.74	-7.81	1.05	-4.54	30	Pass
155	5775	-7.29	-6.95	-7.48	-7.34	-1.24	1.05	2.03	30	Pass

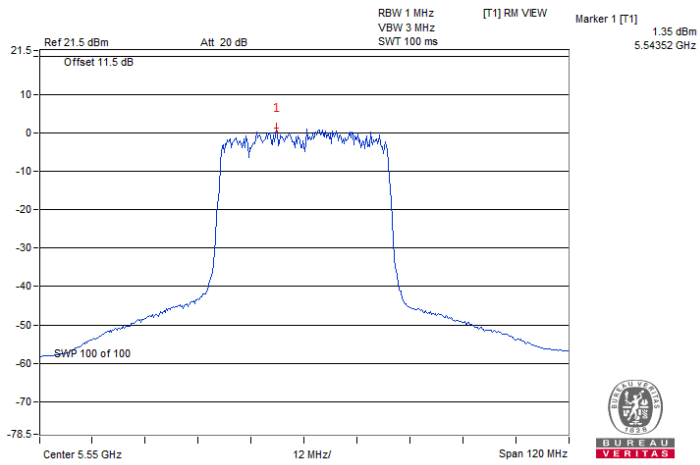
Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 4.91 dBi < 6 dBi, so the power density limit shall not be reduced.

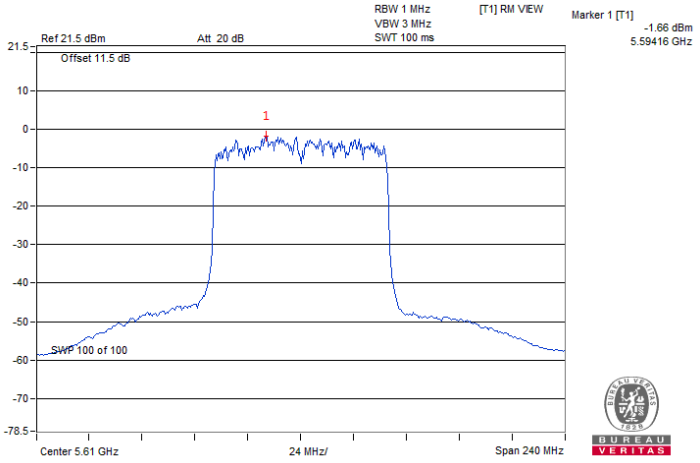
Spectrum Plot of Maximum Value



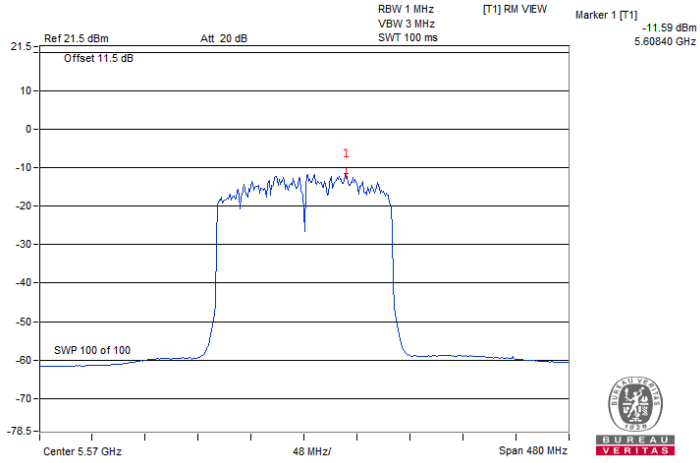
802.11ax (HE20) / Chain2 : CH 144 (U-NII-2C)



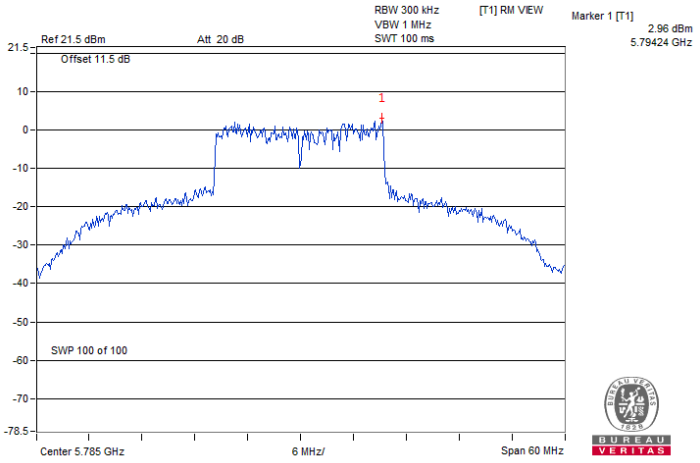
802.11ax (HE40) / Chain3 : CH 110



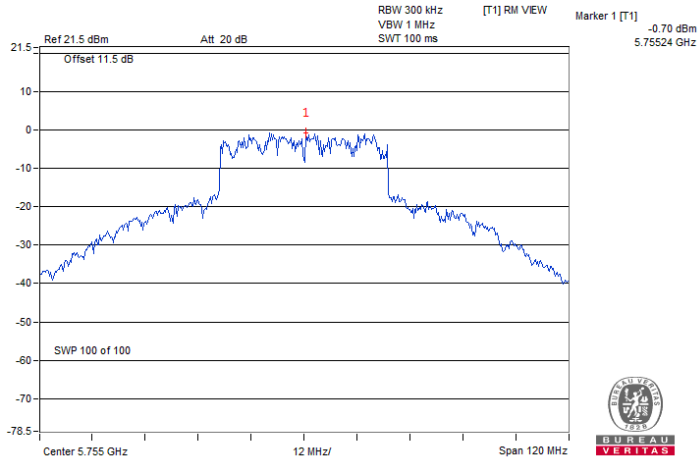
802.11ax (HE80) / Chain3 : CH 122



802.11ax (HE160) / Chain3 : CH 114

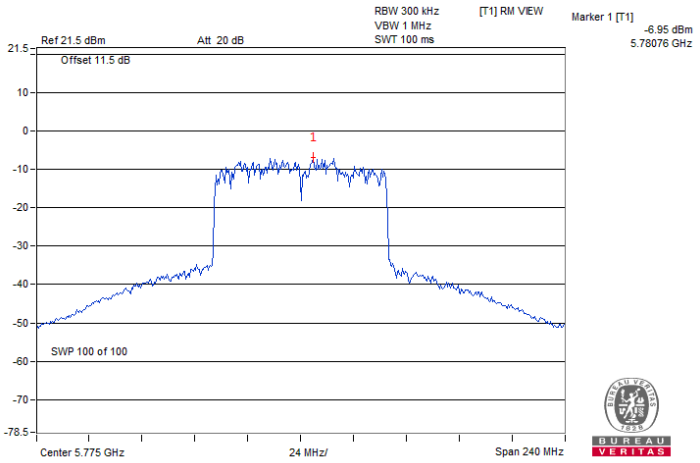


802.11ax (HE20) / Chain0 : CH 157



802.11ax (HE40) / Chain0 : CH 151

Spectrum Plot of Maximum Value



802.11ax (HE80) / Chain1 : CH 155

NSS 4

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
100	5500	2.67	3.11	2.86	2.96	0.99	9.91	11.00	Pass
116	5580	3.59	3.89	3.82	4.02	0.99	10.84	11.00	Pass
140	5700	-1.20	-1.05	-1.09	-0.99	0.99	5.93	11.00	Pass
144 (U-NII-2C)	5720	3.22	3.57	3.65	3.68	0.99	10.54	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
102	5510	-3.16	-2.86	-3.08	-2.91	1.00	4.02	11.00	Pass
110	5550	0.88	1.19	0.89	1.08	1.00	8.03	11.00	Pass
134	5670	0.86	1.18	1.09	1.11	1.00	8.08	11.00	Pass
142 (U-NII-2C)	5710	0.24	0.62	0.72	0.64	1.00	7.58	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
106	5530	-7.21	-6.88	-7.03	-6.79	1.04	0.09	11.00	Pass
122	5610	-2.24	-1.82	-2.04	-1.71	1.04	5.11	11.00	Pass
138 (U-NII-2C)	5690	-2.95	-2.40	-2.39	-2.46	1.04	4.52	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	-11.26	-10.80	-10.97	-10.88	0.78	-4.17	11.00	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-2C, the directional gain is 2.47 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
144 (U-NII-3)	5720	-5.87	-5.50	-5.50	-5.59	0.41	0.99	3.62	30	Pass
149	5745	2.80	2.91	2.85	2.62	8.82	0.99	12.03	30	Pass
157	5785	2.75	2.87	2.74	2.62	8.77	0.99	11.98	30	Pass
165	5825	2.69	2.87	2.79	2.56	8.75	0.99	11.96	30	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 2.33 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-9.71	-9.98	-9.71	-10.73	-3.99	1	-0.77	30	Pass
151	5755	-0.05	-0.26	0.02	0.16	5.99	1	9.21	30	Pass
159	5795	-0.05	-0.24	0.11	0.21	6.03	1	9.25	30	Pass

Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 2.33 dBi < 6 dBi, so the power density limit shall not be reduced.

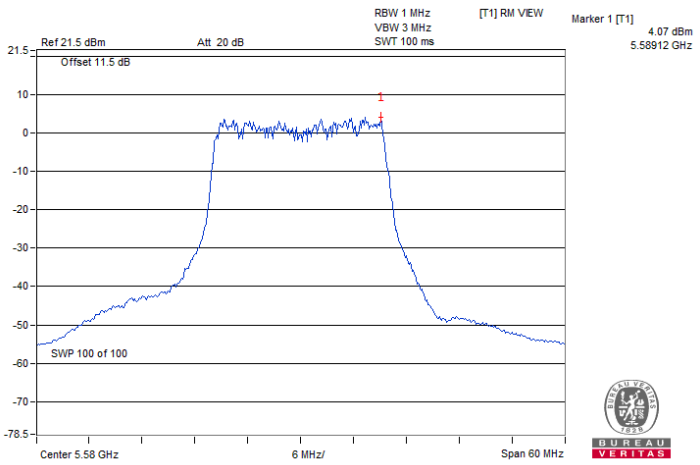
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-14.83	-14.27	-15.14	-15.49	-8.89	1.04	-5.63	30	Pass
155	5775	-7.12	-6.38	-6.50	-6.70	-0.65	1.04	2.61	30	Pass

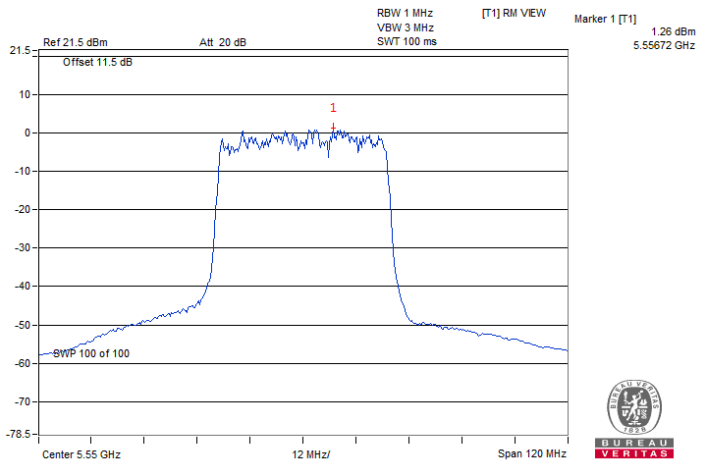
Notes:

1. Please refer to 3.2 section for directional gain
2. For U-NII-3, the directional gain is 2.33 dBi < 6 dBi, so the power density limit shall not be reduced.

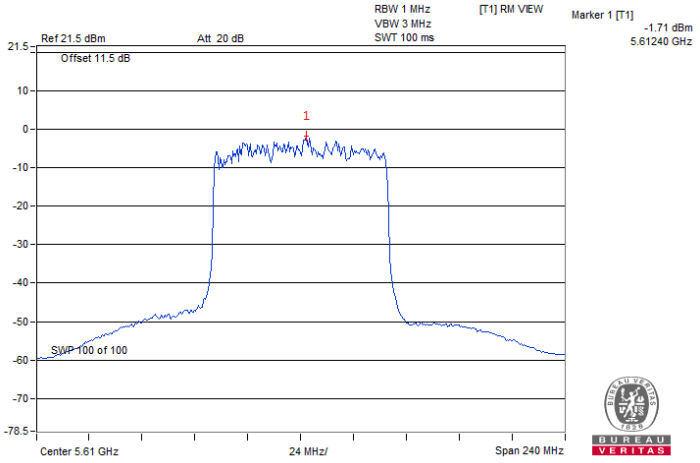
Spectrum Plot of Maximum Value



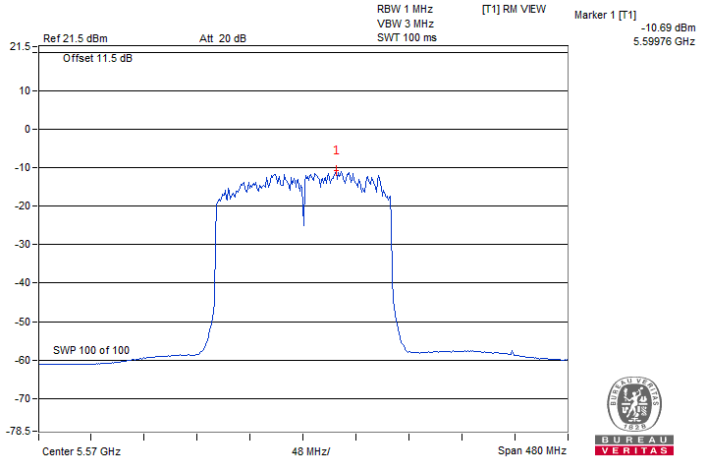
802.11ax (HE20) / Chain3 : CH 116



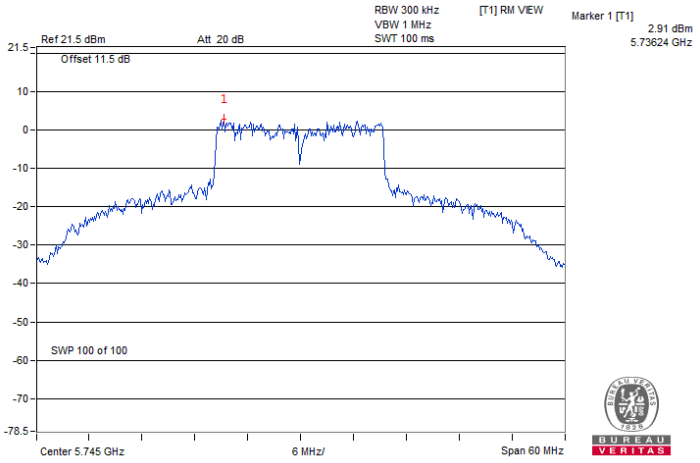
802.11ax (HE40) / Chain1 : CH 110



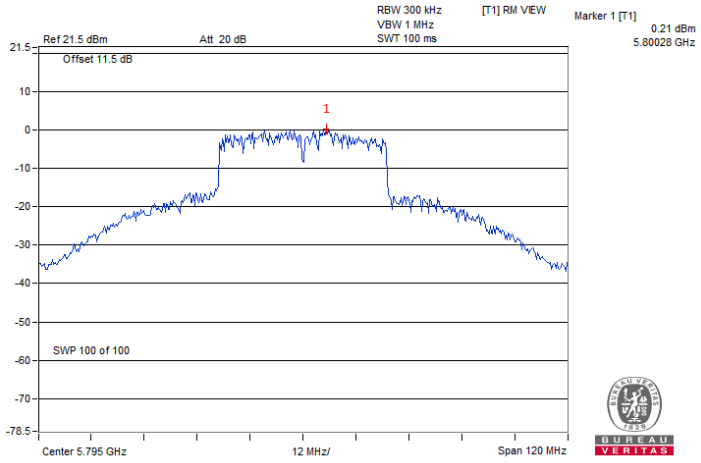
802.11ax (HE80) / Chain3 : CH 122



802.11ax (HE160) / Chain1 : CH 114

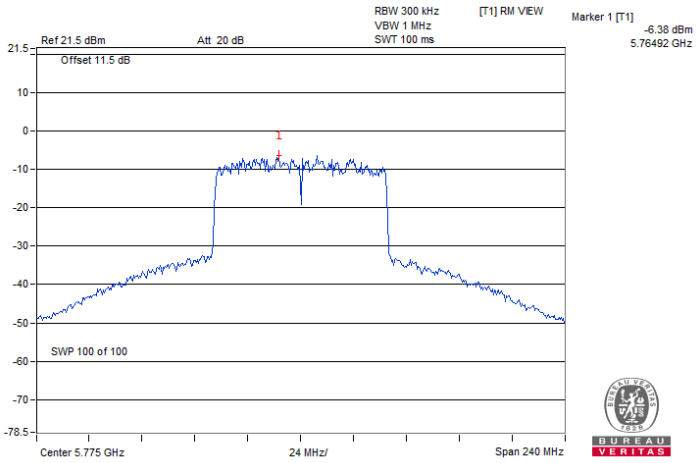


802.11ax (HE20) / Chain1 : CH 149



802.11ax (HE40) / Chain3 : CH 159

Spectrum Plot of Maximum Value



802.11ax (HE80) / Chain1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.14	3.14	3.14	3.15	0.5	Pass
149	5745	16.36	16.36	16.36	16.36	0.5	Pass
157	5785	16.34	16.35	16.36	16.35	0.5	Pass
165	5825	16.36	16.38	16.34	16.35	0.5	Pass

NSS 1

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.47	4.47	4.46	4.47	0.5	Pass
149	5745	19.03	19.06	18.97	18.95	0.5	Pass
157	5785	18.90	18.99	19.00	19.00	0.5	Pass
165	5825	18.99	18.98	18.97	18.92	0.5	Pass

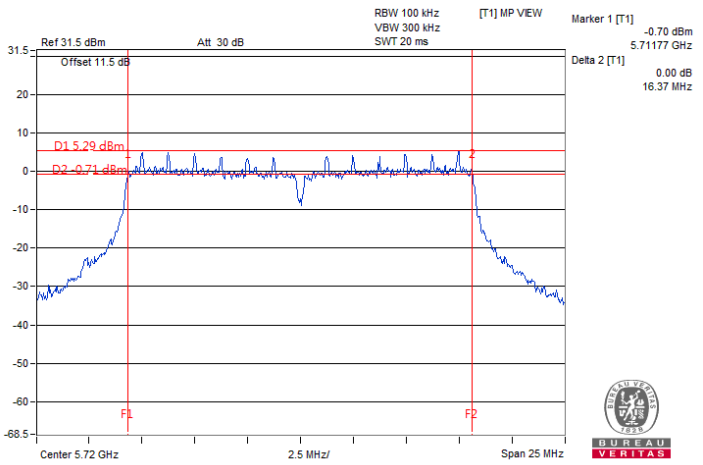
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	2.99	3.50	3.21	2.58	0.5	Pass
151	5755	37.20	37.54	35.89	36.44	0.5	Pass
159	5795	37.63	37.75	36.67	37.11	0.5	Pass

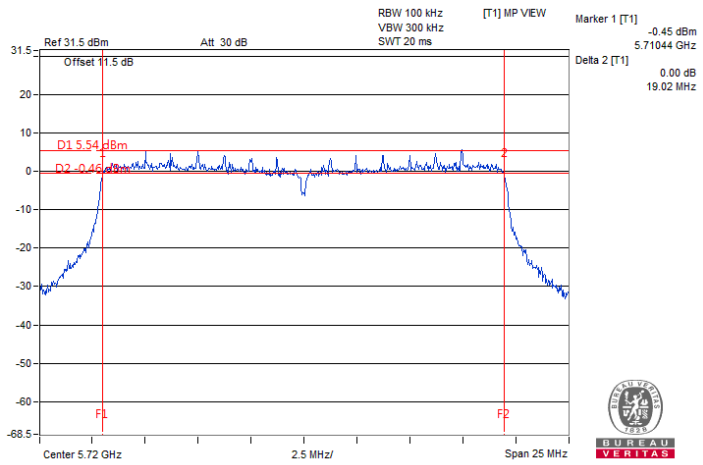
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	2.64	3.03	2.67	3.59	0.5	Pass
155	5775	76.31	75.63	74.61	74.67	0.5	Pass

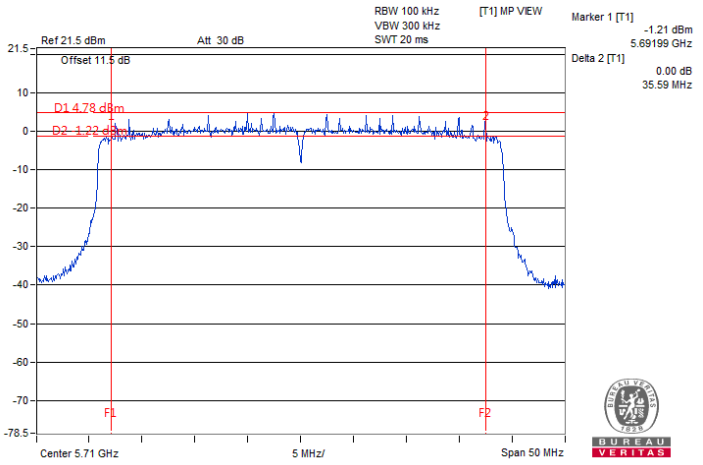
Spectrum Plot of Minimum Value



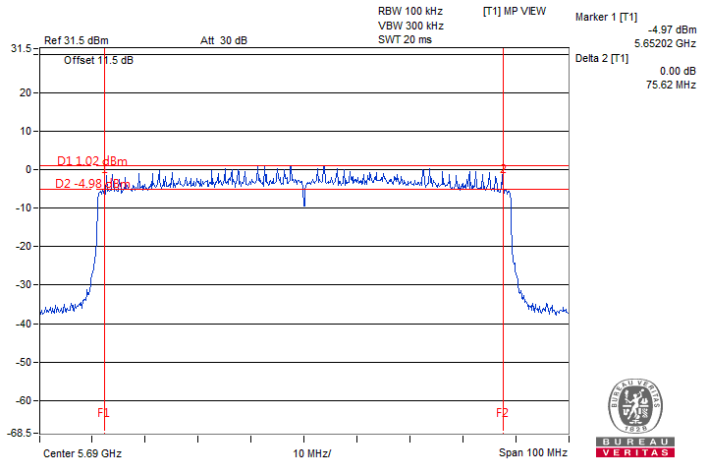
802.11a / Chain0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain2 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain3 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain0 : CH 138 (U-NII-3)

Notes:

1. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

NSS 2

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.49	4.51	4.48	4.53	0.5	Pass
149	5745	18.98	19.11	19.04	19.10	0.5	Pass
157	5785	19.07	19.17	19.06	19.08	0.5	Pass
165	5825	19.07	19.12	19.09	19.10	0.5	Pass

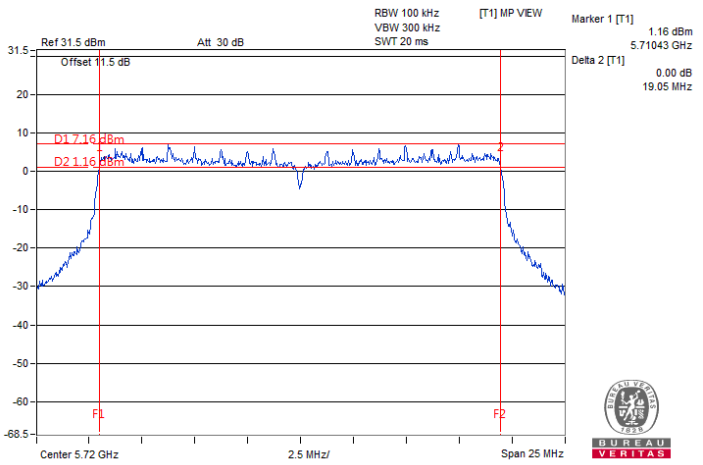
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	3.86	3.77	3.70	3.60	0.5	Pass
151	5755	37.71	37.36	37.73	37.84	0.5	Pass
159	5795	37.81	38.01	37.85	37.13	0.5	Pass

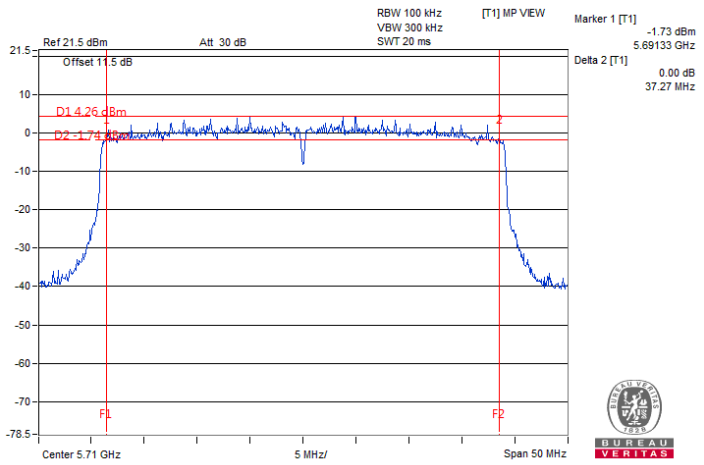
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	3.82	3.90	3.28	2.66	0.5	Pass
155	5775	76.85	75.21	76.45	76.78	0.5	Pass

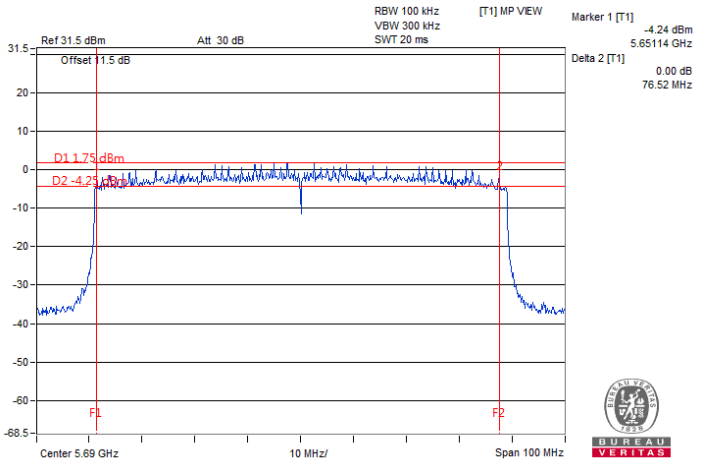
Spectrum Plot of Minimum Value



802.11ax (HE20) / Chain2 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain3 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain3 : CH 138 (U-NII-3)

Notes:

1. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

NSS 4

802.11ax (HE20)

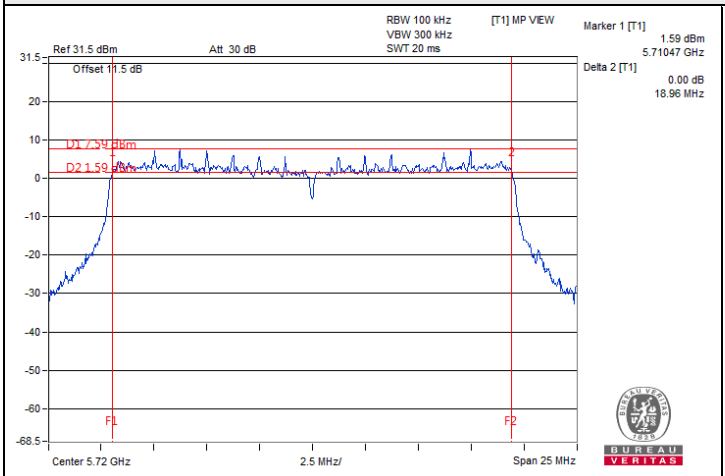
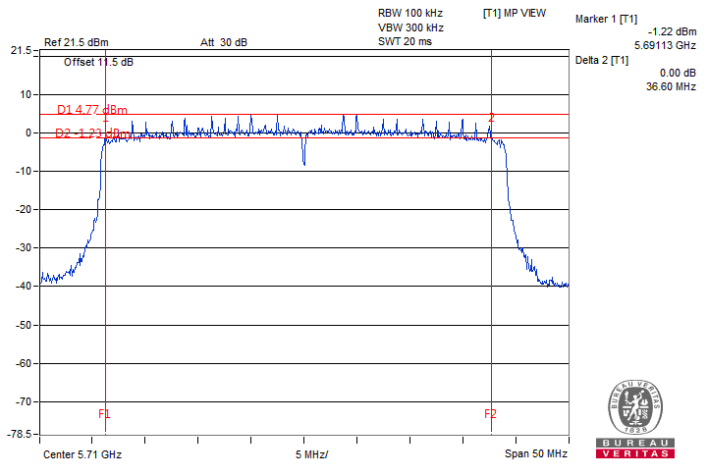
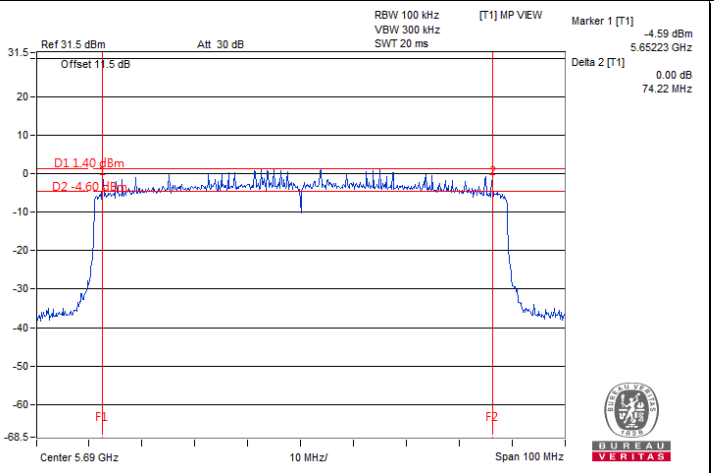
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.49	4.45	4.43	4.49	0.5	Pass
149	5745	18.89	18.93	18.99	18.95	0.5	Pass
157	5785	18.83	18.91	18.96	19.01	0.5	Pass
165	5825	18.99	19.00	18.94	18.97	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	3.34	3.19	2.73	3.70	0.5	Pass
151	5755	37.95	36.67	37.31	36.90	0.5	Pass
159	5795	37.52	37.51	37.70	37.78	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	2.66	1.45	2.99	2.65	0.5	Pass
155	5775	75.56	74.26	75.35	76.57	0.5	Pass

Spectrum Plot of Minimum Value	
	
802.11ax (HE20) / Chain2 : CH 144 (U-NII-3)	802.11ax (HE40) / Chain2 : CH 142 (U-NII-3)
	
802.11ax (HE80) / Chain1 : CH 138 (U-NII-3)	

Notes:

1. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

5180 ~ 5320MHz:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.54	16.45
40	5200	16.45	16.45
48	5240	16.54	16.73
52	5260	16.54	16.54
60	5300	16.45	16.45
64	5320	16.45	16.45

NSS 1

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.04	19.04
40	5200	19.04	18.95
48	5240	19.04	19.13
52	5260	19.04	18.95
60	5300	18.95	18.95
64	5320	18.95	19.04

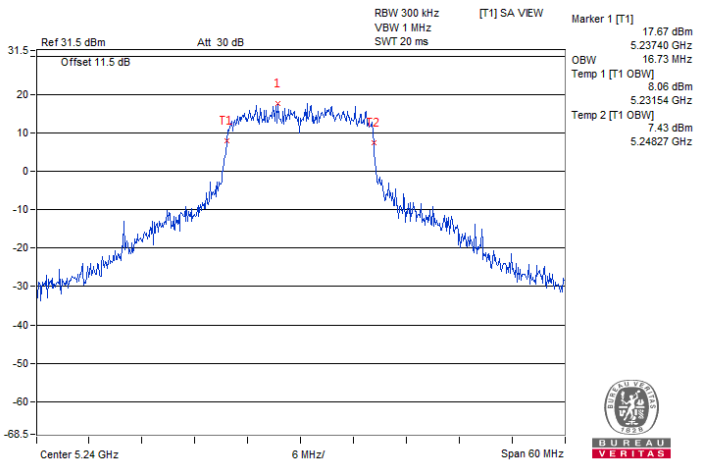
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.98	37.98
46	5230	38.27	38.46
54	5270	38.27	37.98
62	5310	37.98	38.18

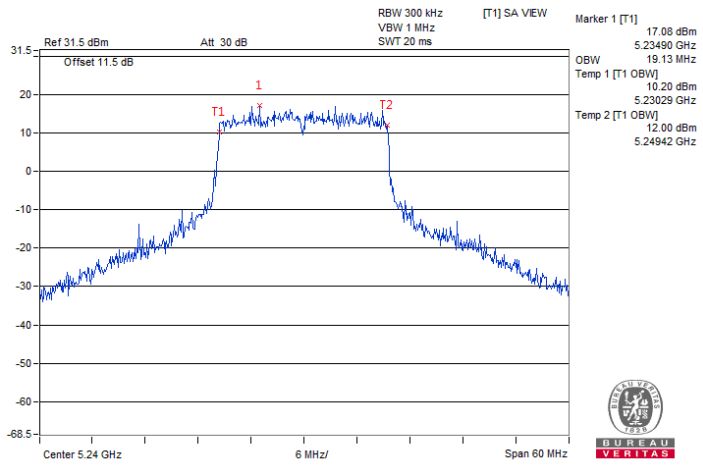
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.31	77.31
58	5290	76.92	76.93

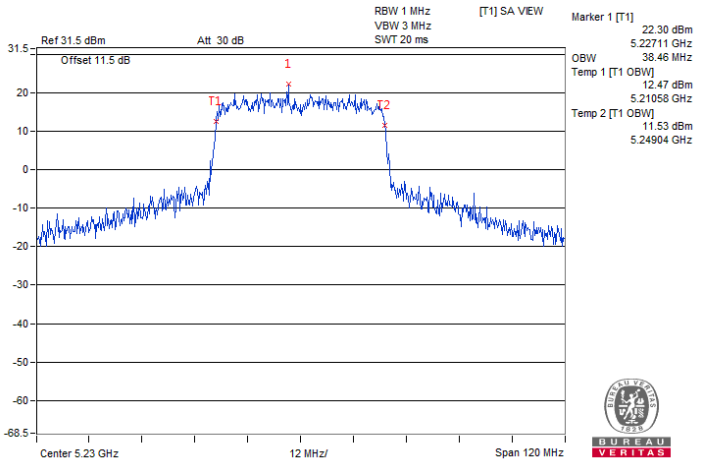
Spectrum Plot of Maximum Value



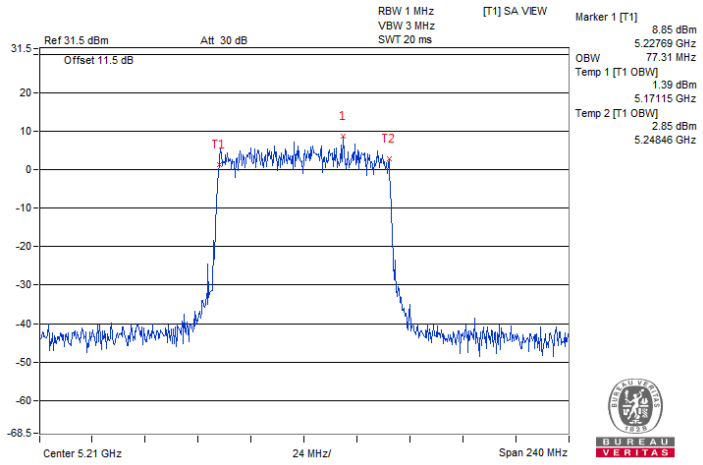
802.11a / Chain1 : CH 48



802.11ax (HE20) / Chain1 : CH 48



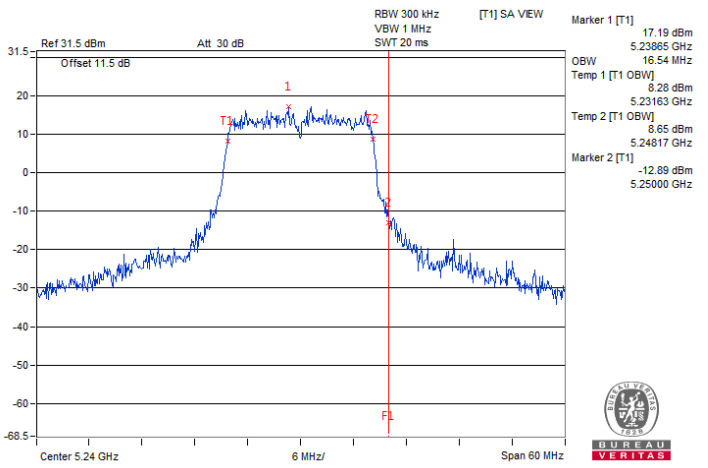
802.11ax (HE40) / Chain1 : CH 46



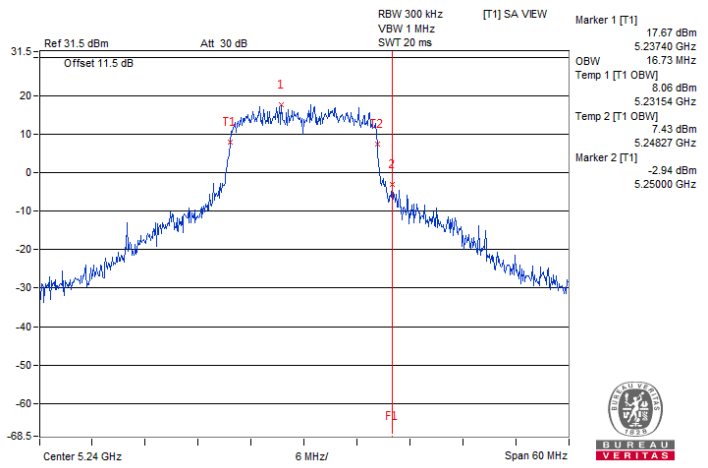
802.11ax (HE80) / Chain0 : CH 42

Spectrum Plot for nearby DFS band

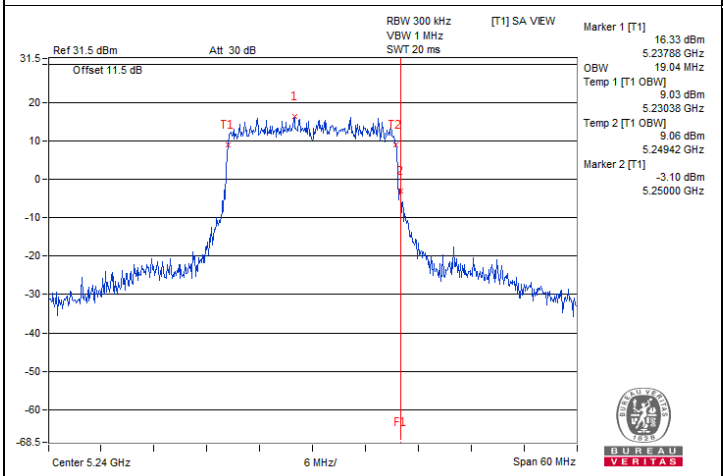
(DFS is required, if 99% OCP straddle into U-NII-2A band)



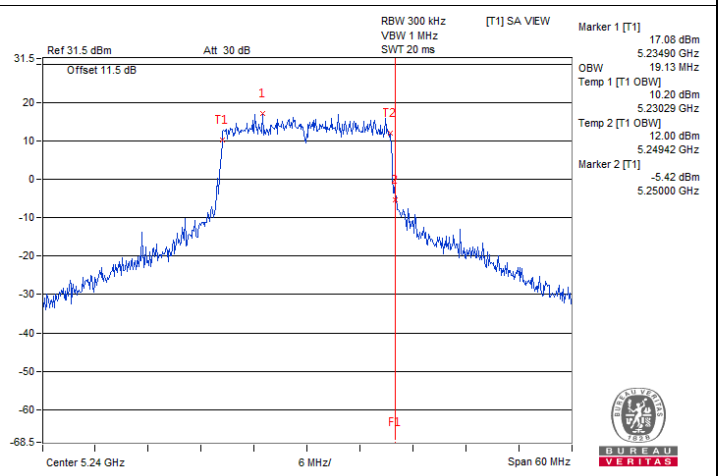
802.11a / Chain 0 : CH 48



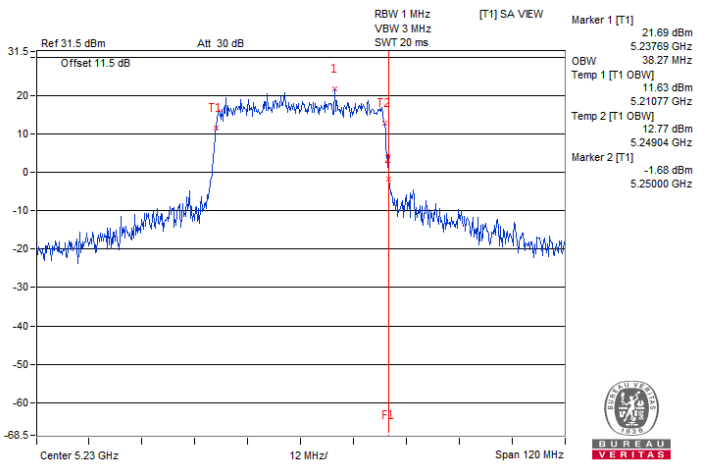
802.11a / Chain 1 : CH 48



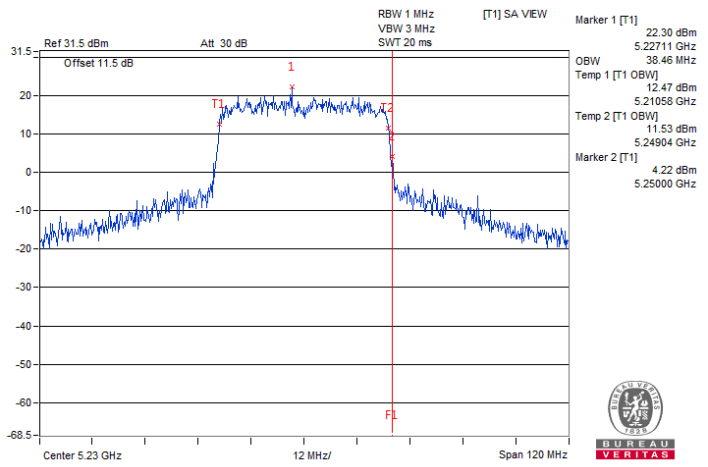
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48



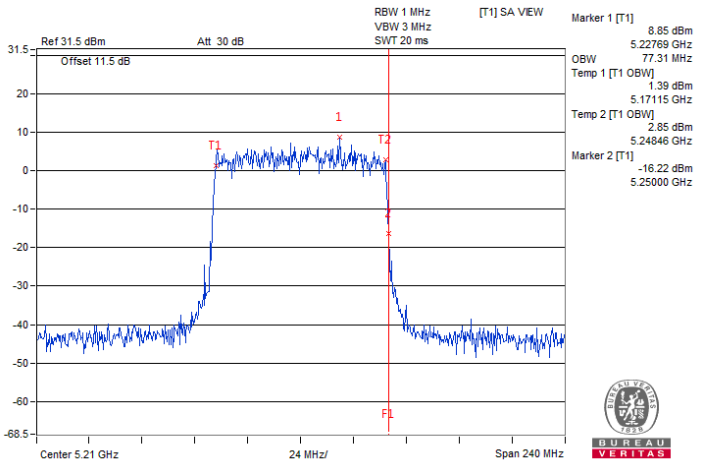
802.11ax (HE40) / Chain 0 : CH 46



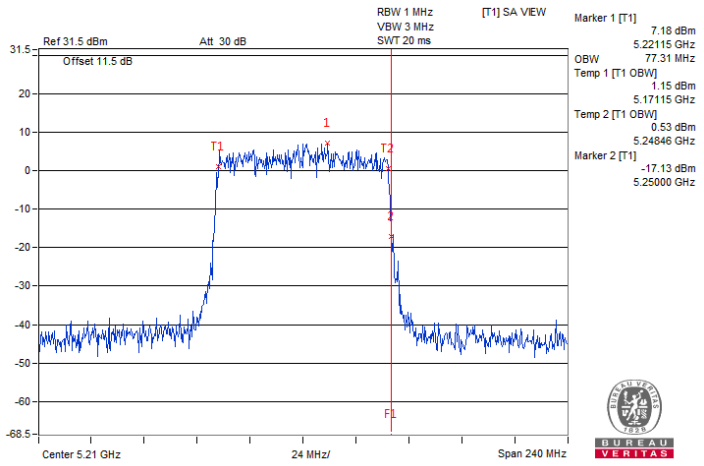
802.11ax (HE40) / Chain 1 : CH 46

Spectrum Plot for nearby DFS band

(DFS is required, if 99% OCP straddle into U-NII-2A band)



802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

NSS 2

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.04	18.95
40	5200	19.04	19.04
48	5240	19.04	19.04
52	5260	18.95	18.95
60	5300	18.95	18.95
64	5320	18.95	19.04

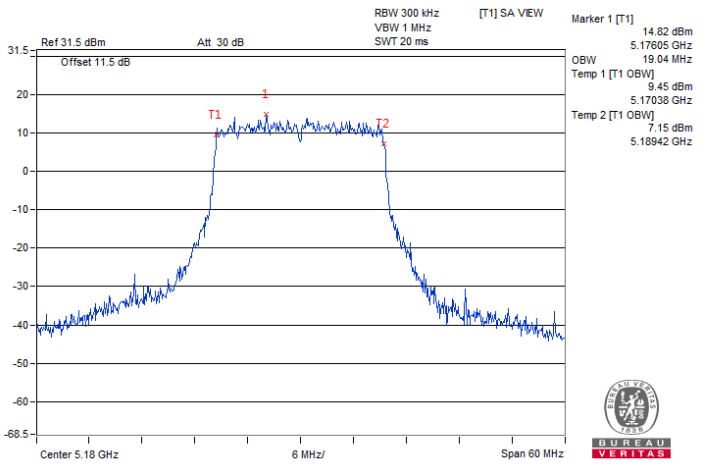
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.08	38.07
46	5230	38.27	38.66
54	5270	37.89	37.98
62	5310	38.08	37.88

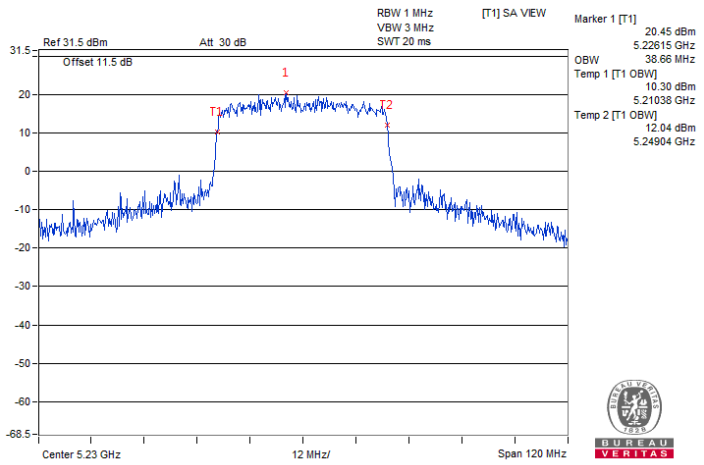
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.31	77.31
58	5290	76.92	76.93

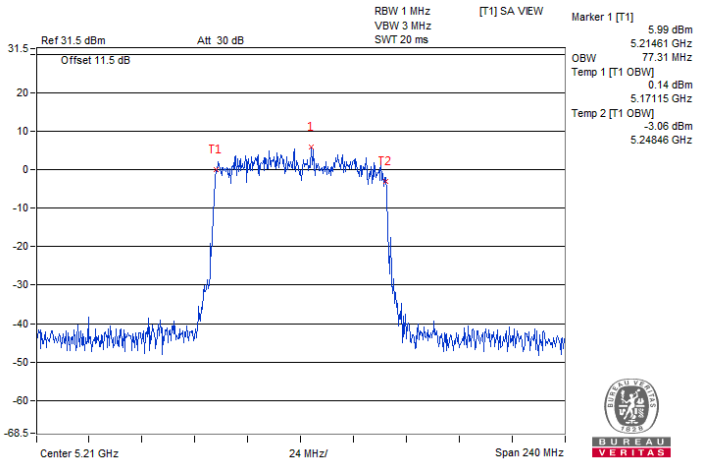
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain0 : CH 36



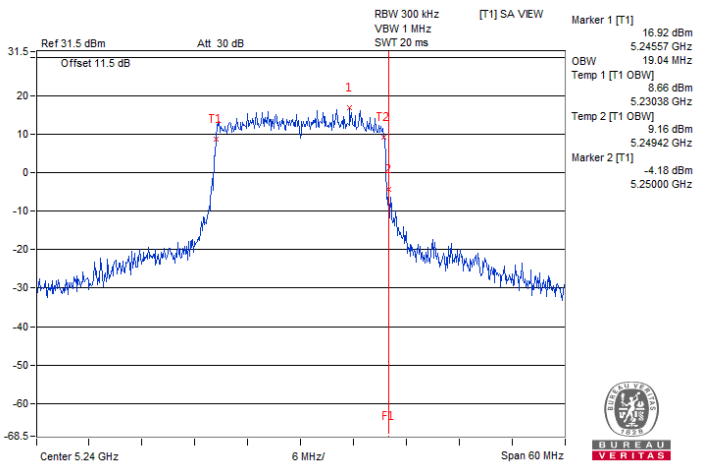
802.11ax (HE40) / Chain1 : CH 46



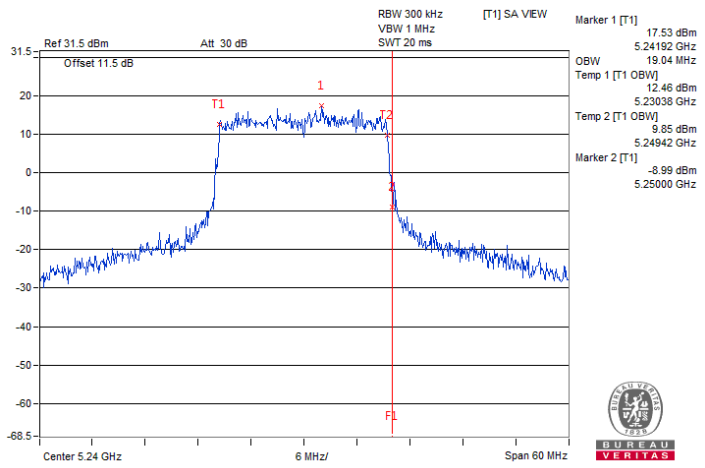
802.11ax (HE80) / Chain0 : CH 42

Spectrum Plot for nearby DFS band

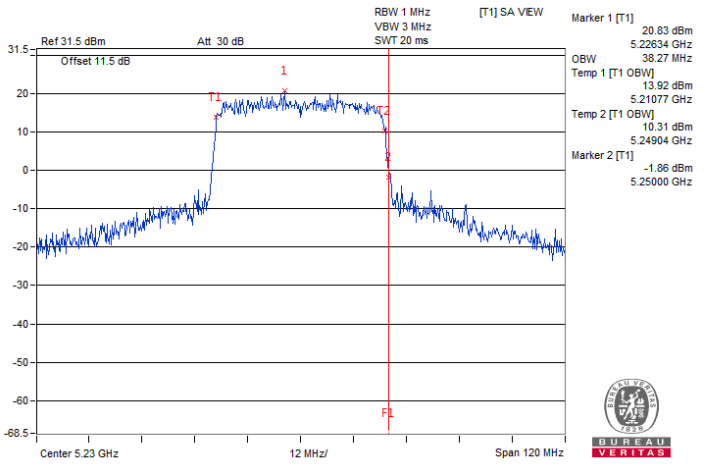
(DFS is required, if 99% OCP straddle into U-NII-2A band)



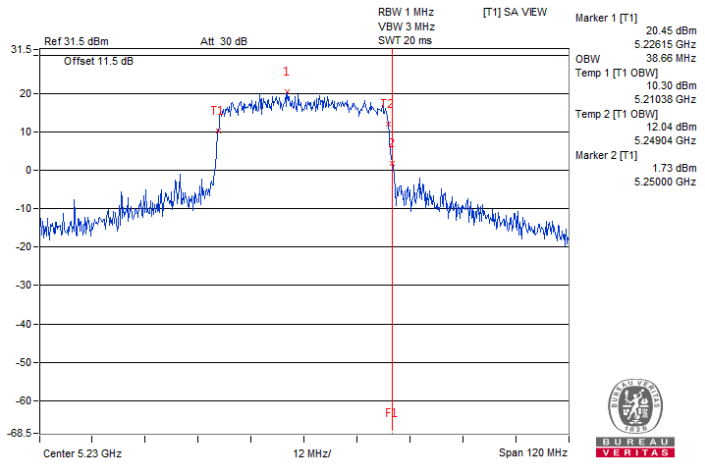
802.11ax (HE20) / Chain 0 : CH 48



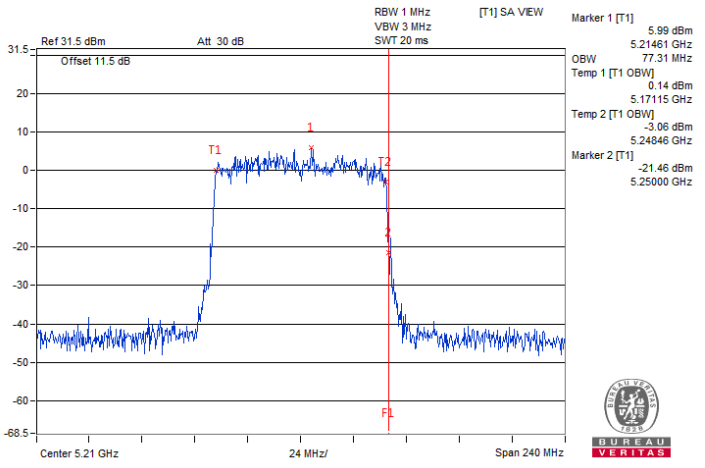
802.11ax (HE20) / Chain 1 : CH 48



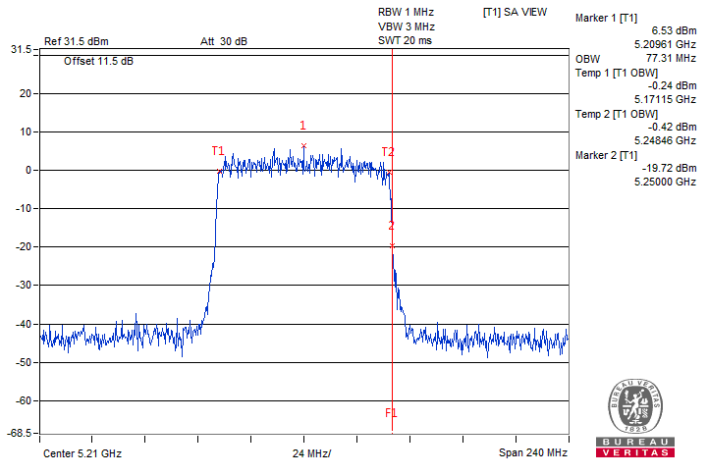
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

5500 ~ 5720MHz & 5745 ~ 5825MHz:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	16.63	16.63	16.63	16.54
116	5580	16.63	16.63	16.73	16.63
140	5700	16.63	16.54	16.63	16.73
144 (U-NII-2C)	5720	13.40	13.40	13.40	13.40
144 (U-NII-3)	5720	3.28	3.28	3.28	3.28
149	5745	29.04	24.52	19.13	22.02
157	5785	27.21	29.91	26.73	23.94
165	5825	21.25	17.60	17.02	18.66

NSS 1

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	19.13	19.13	19.13	19.13
116	5580	19.13	19.13	19.13	19.13
140	5700	19.23	19.13	19.13	19.13
144 (U-NII-2C)	5720	14.72	14.72	14.60	14.60
144 (U-NII-3)	5720	4.48	4.48	4.48	4.60
149	5745	33.27	27.21	20.39	24.81
157	5785	32.12	33.46	28.65	26.34
165	5825	22.02	19.61	19.43	19.90

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	37.89	37.89	37.89	37.89
110	5550	37.89	37.89	38.08	37.89
134	5670	37.89	37.89	37.89	37.89
142 (U-NII-2C)	5710	34.30	34.30	34.30	34.30
142 (U-NII-3)	5710	4.30	4.13	4.30	4.30
151	5755	58.47	55.77	53.65	55.77
159	5795	43.07	43.85	40.57	46.05

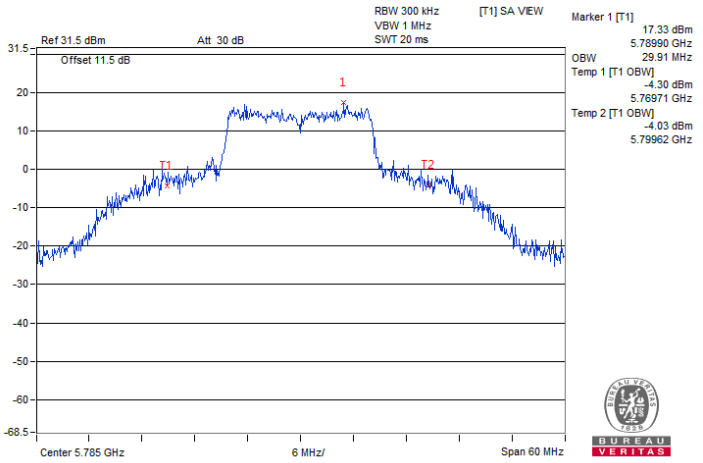
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	77.31	77.70	77.31	77.70
122	5610	77.11	77.30	77.12	77.11
138 (U-NII-2C)	5690	73.61	73.61	73.61	73.61
138 (U-NII-3)	5690	3.61	3.61	3.61	3.61
155	5775	77.31	77.31	77.31	77.31

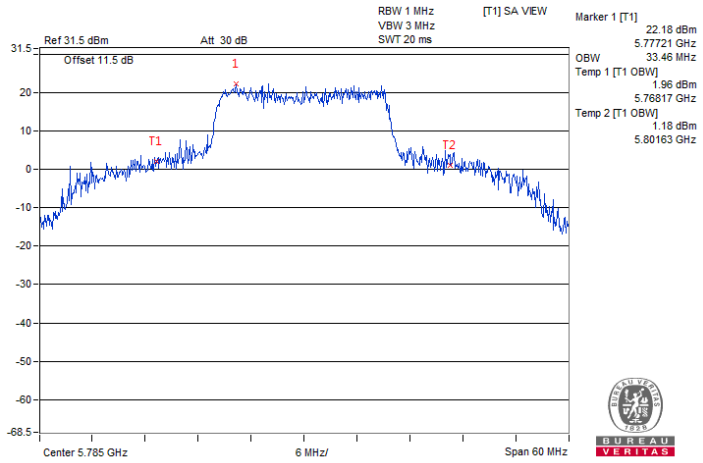
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	154.61	154.61	154.61	156.15

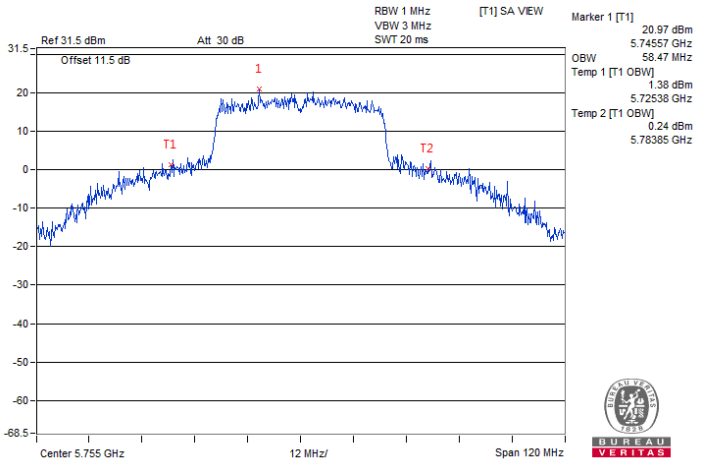
Spectrum Plot of Maximum Value



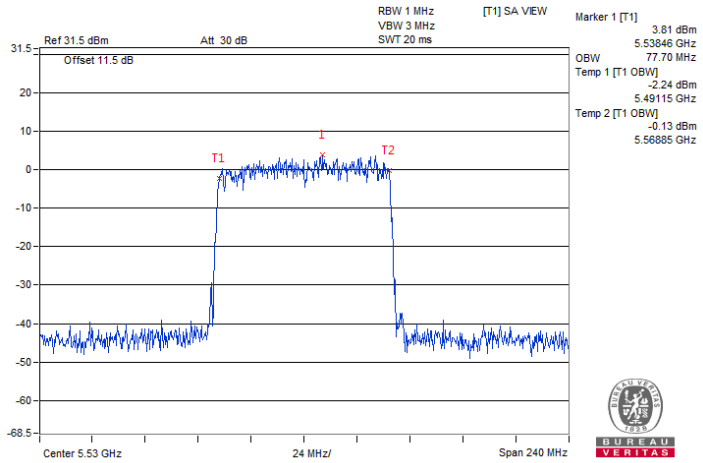
802.11a / Chain1 : CH 157



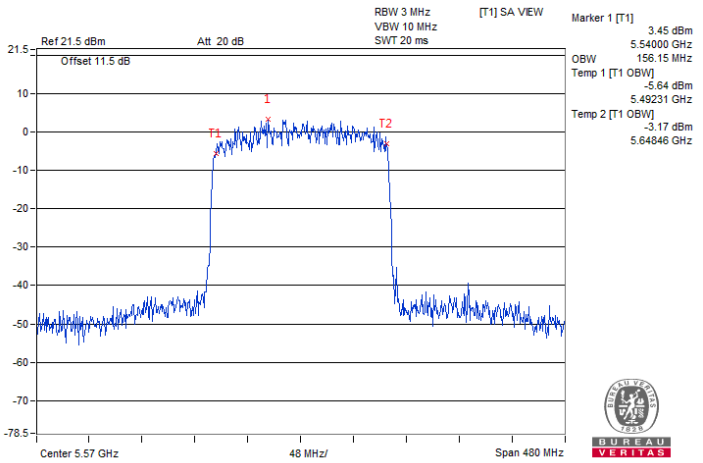
802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain0 : CH 151



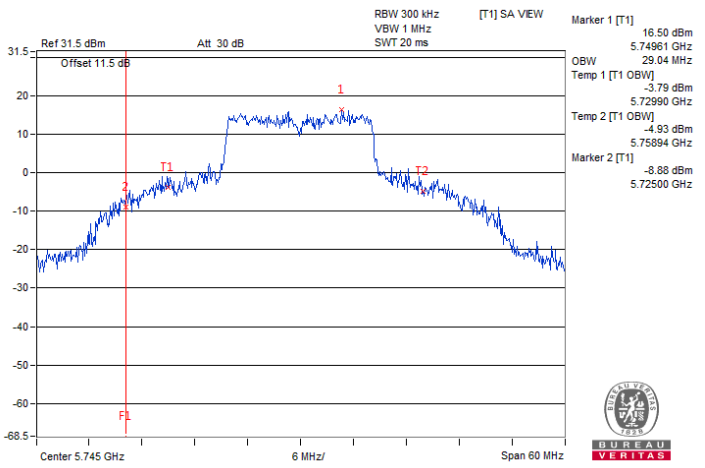
802.11ax (HE80) / Chain1 : CH 106



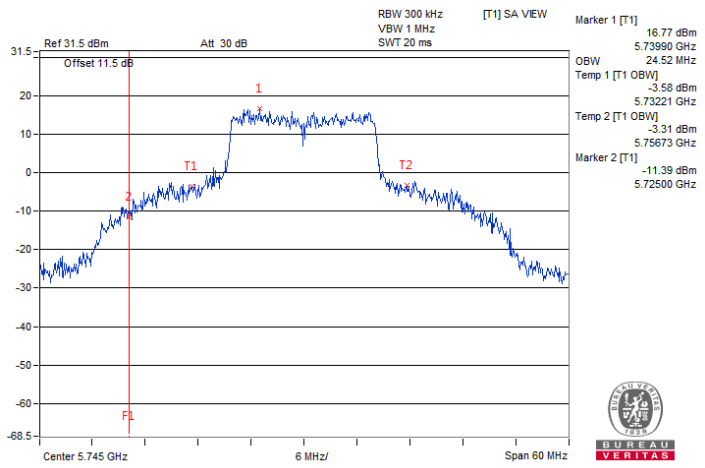
802.11ax (HE160) / Chain3 : CH 114

Spectrum Plot for nearby DFS band

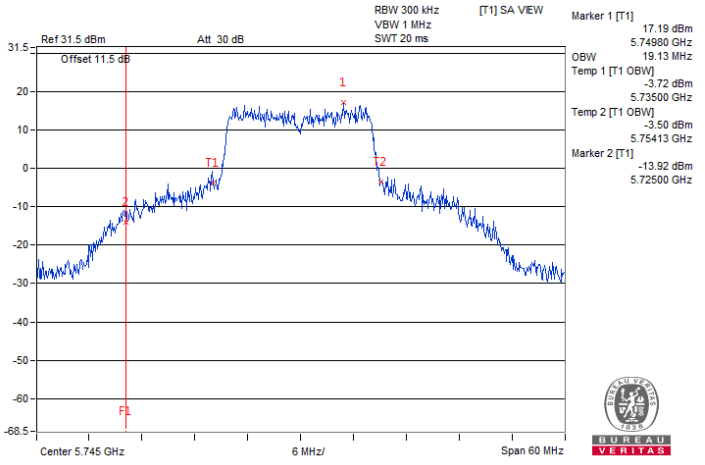
(DFS is required, if 99% OCP straddle into U-NII-2C band)



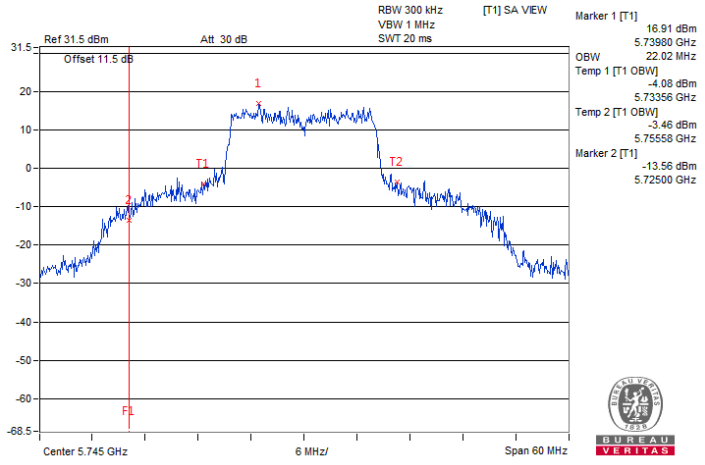
802.11a / Chain 0 : CH 149



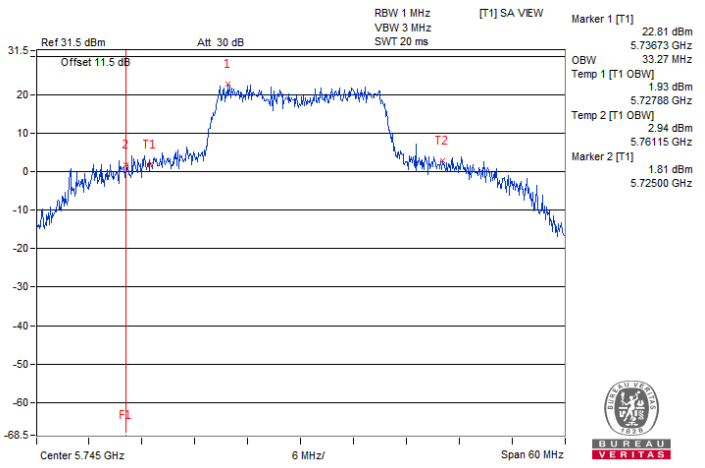
802.11a / Chain 1 : CH 149



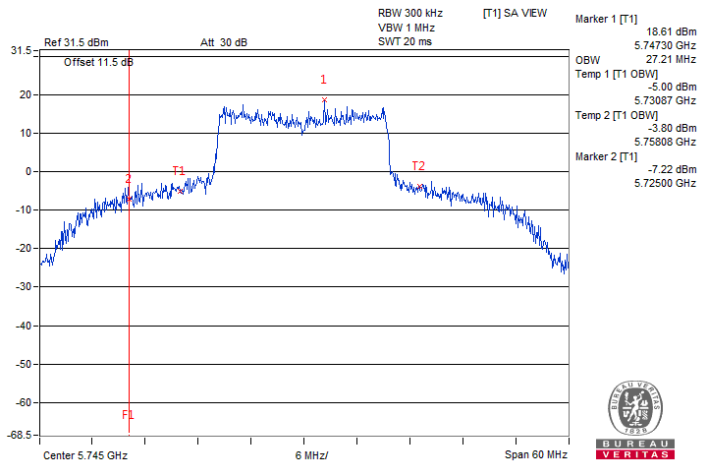
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149



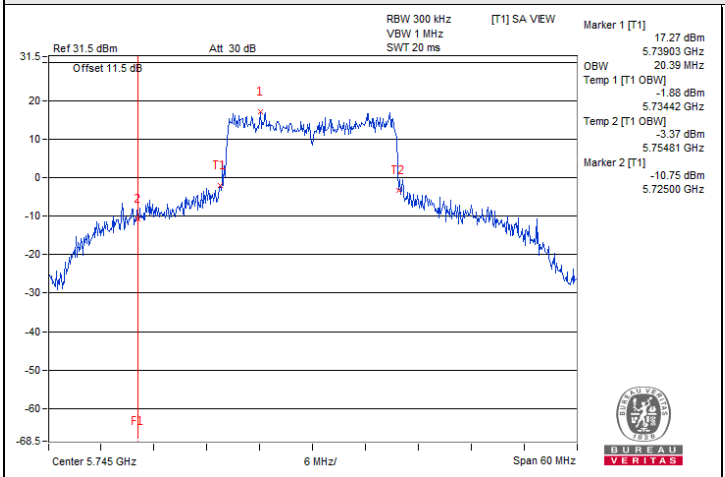
802.11ax (HE20) / Chain 0 : CH 149



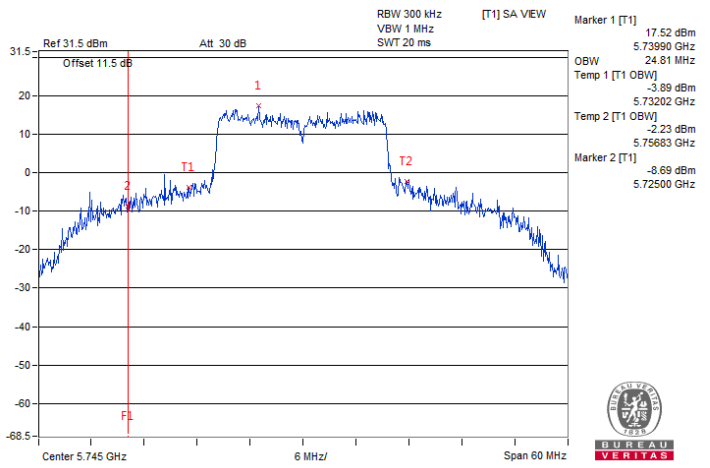
802.11ax (HE20) / Chain 1 : CH 149

Spectrum Plot for nearby DFS band

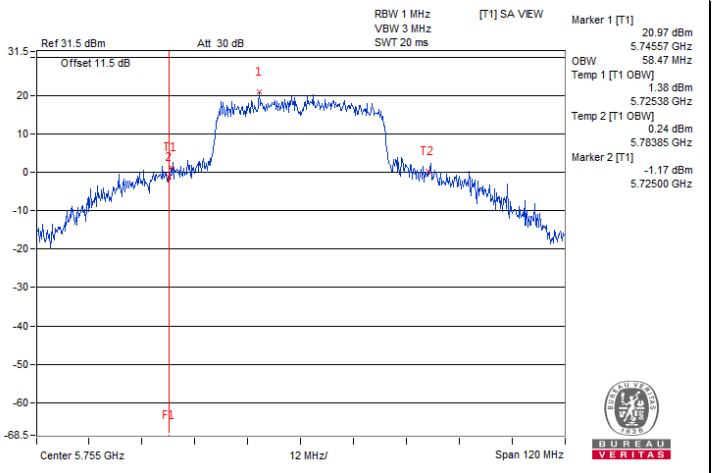
(DFS is required, if 99% OCP straddle into U-NII-2C band)



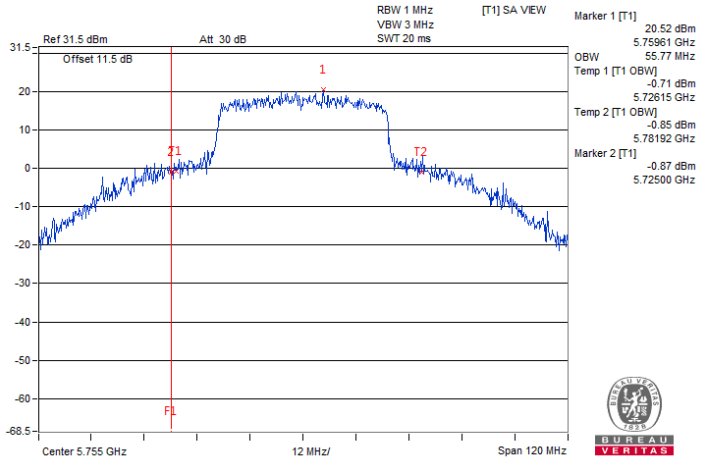
802.11ax (HE20) / Chain 2 : CH 149



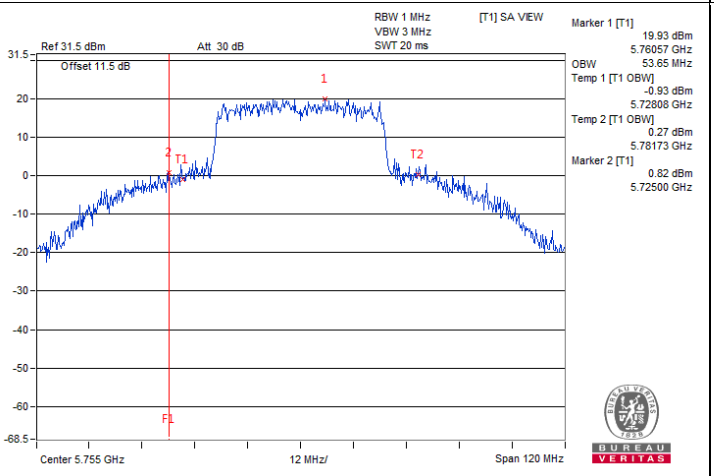
802.11ax (HE20) / Chain 3 : CH 149



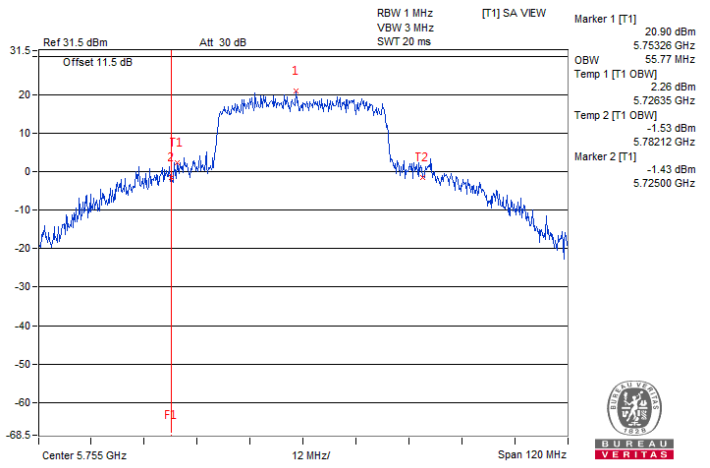
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



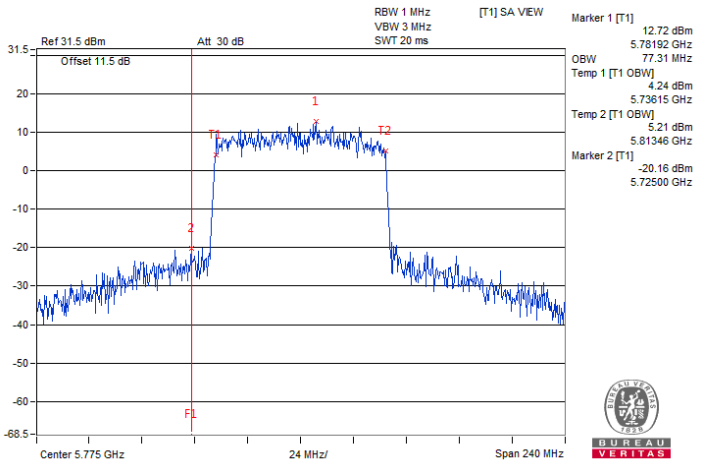
802.11ax (HE40) / Chain 2 : CH 151



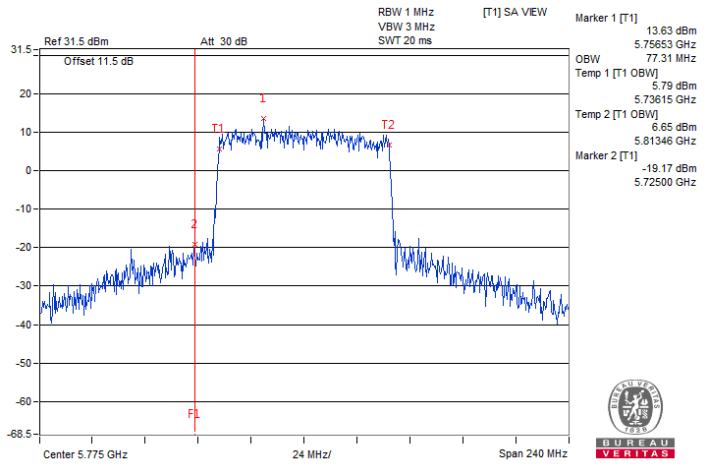
802.11ax (HE40) / Chain 3 : CH 151

Spectrum Plot for nearby DFS band

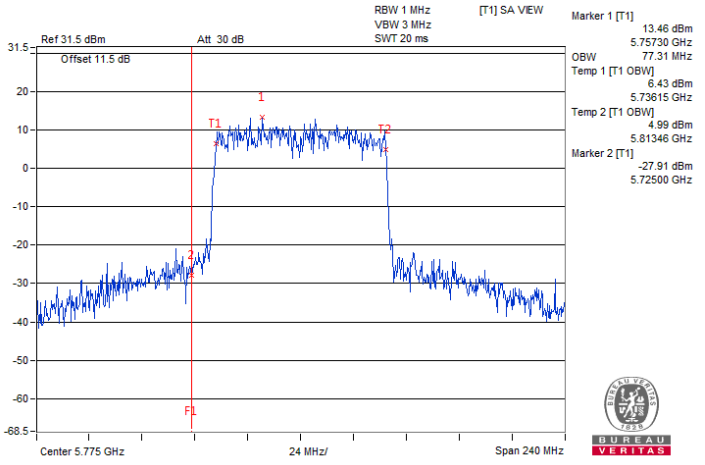
(DFS is required, if 99% OCP straddle into U-NII-2C band)



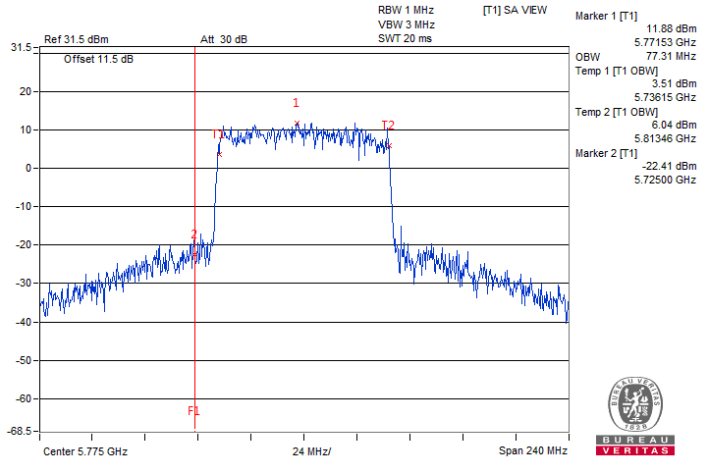
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

NSS 2

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	19.13	19.13	19.13	19.23
116	5580	19.13	19.13	19.13	19.13
140	5700	19.13	19.13	19.13	19.13
144 (U-NII-2C)	5720	14.60	14.72	14.60	14.72
144 (U-NII-3)	5720	4.48	4.48	4.48	4.60
149	5745	31.92	23.85	19.52	20.68
157	5785	29.04	32.02	26.53	22.40
165	5825	19.91	19.61	19.33	19.71

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	37.89	37.89	37.98	37.89
110	5550	37.89	37.89	37.89	37.89
134	5670	37.89	37.89	37.89	37.89
142 (U-NII-2C)	5710	33.96	33.96	34.20	33.96
142 (U-NII-3)	5710	3.96	3.96	3.96	3.72
151	5755	55.77	55.20	53.85	55.97
159	5795	40.96	42.79	39.52	42.98

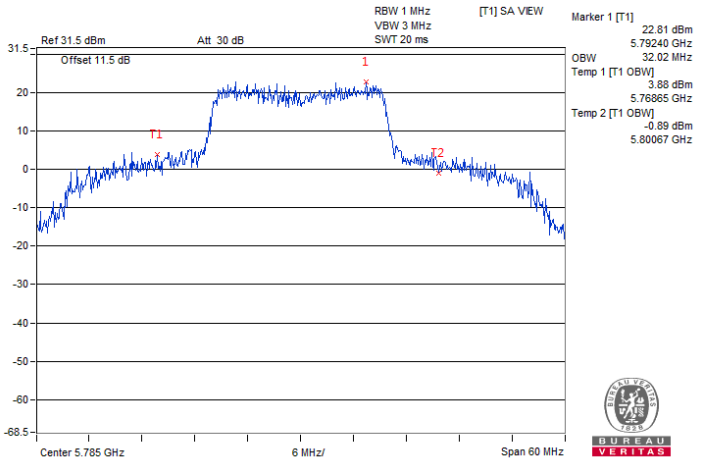
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	77.31	77.31	76.92	77.31
122	5610	77.30	77.30	77.31	77.31
138 (U-NII-2C)	5690	73.96	73.61	73.61	73.61
138 (U-NII-3)	5690	3.61	3.61	3.61	3.61
155	5775	77.69	77.69	78.08	76.93

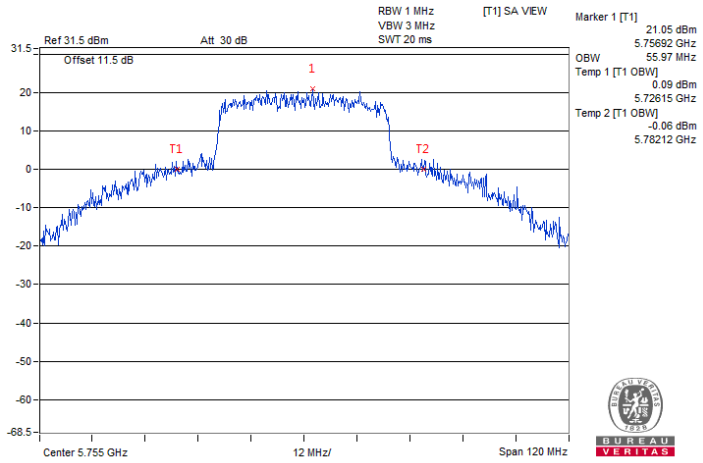
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	154.61	153.07	155.38	154.61

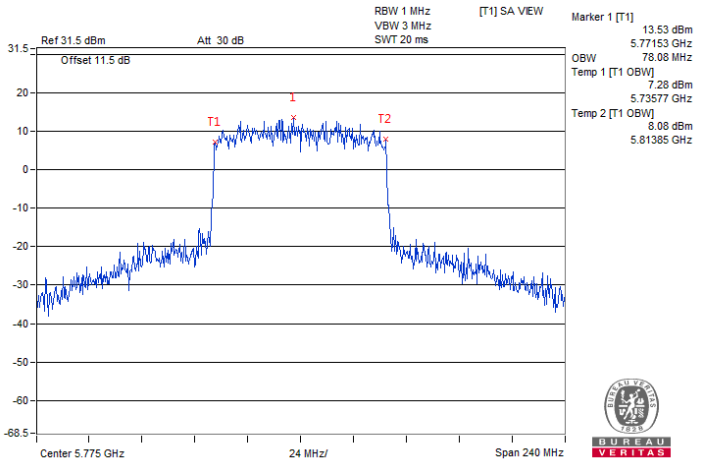
Spectrum Plot of Maximum Value



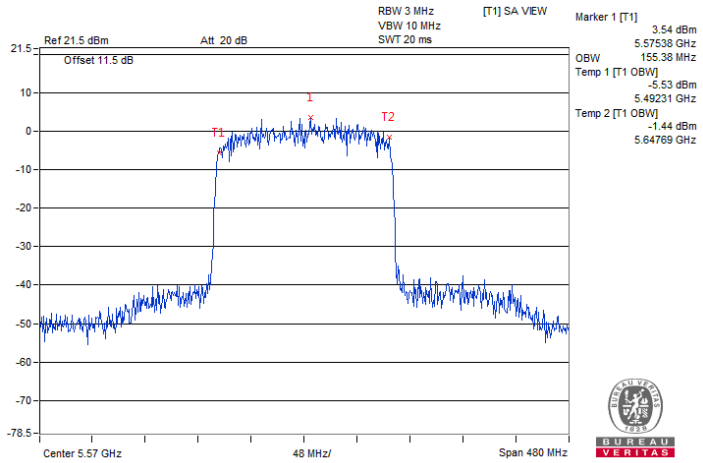
802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain3 : CH 151



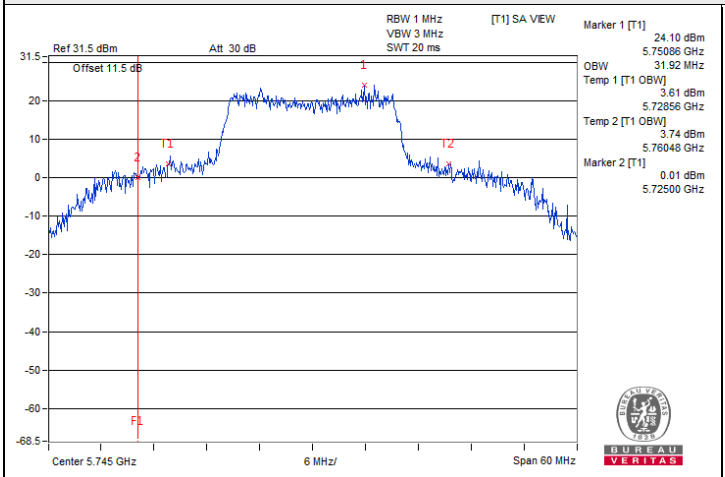
802.11ax (HE80) / Chain2 : CH 155



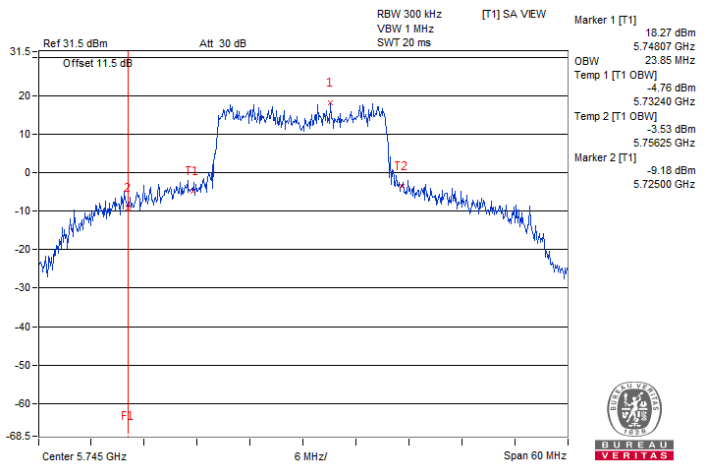
802.11ax (HE160) / Chain2 : CH 114

Spectrum Plot for nearby DFS band

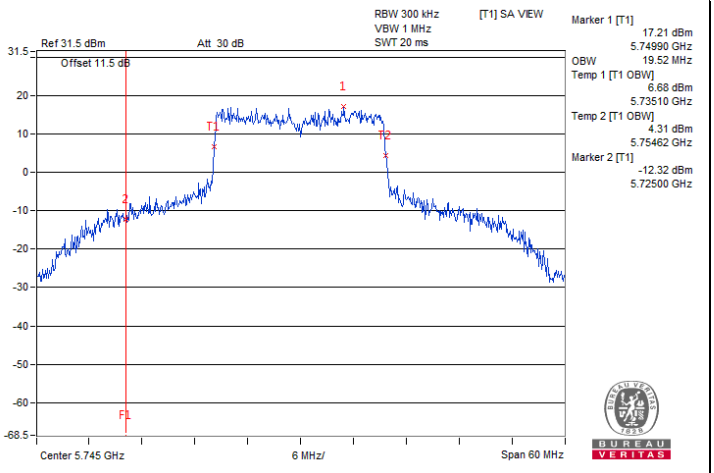
(DFS is required, if 99% OCP straddle into U-NII-2C band)



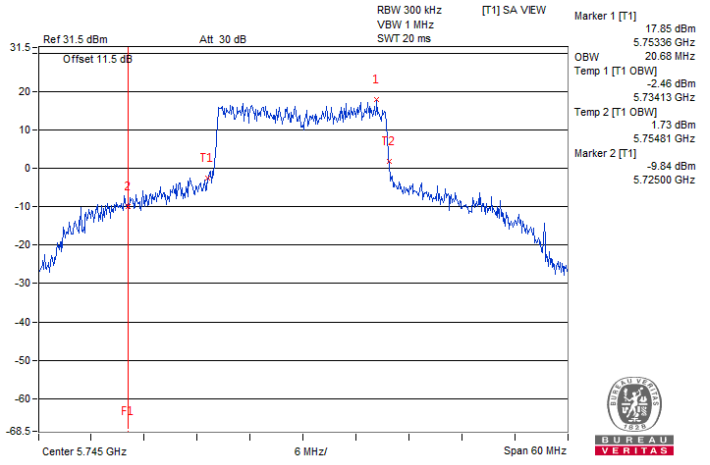
802.11ax (HE20) / Chain 0 : CH 149



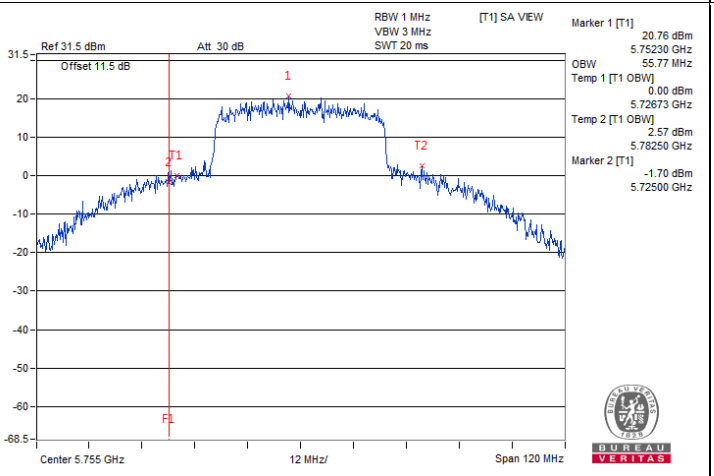
802.11ax (HE20) / Chain 1 : CH 149



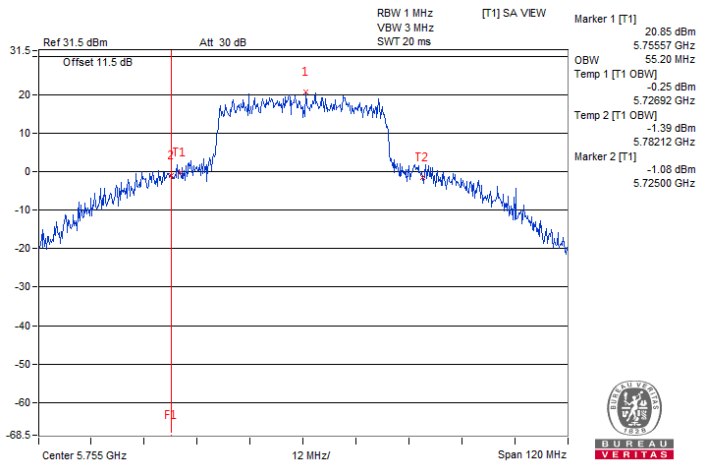
802.11ax (HE20) / Chain 2 : CH 149



802.11ax (HE20) / Chain 3 : CH 149



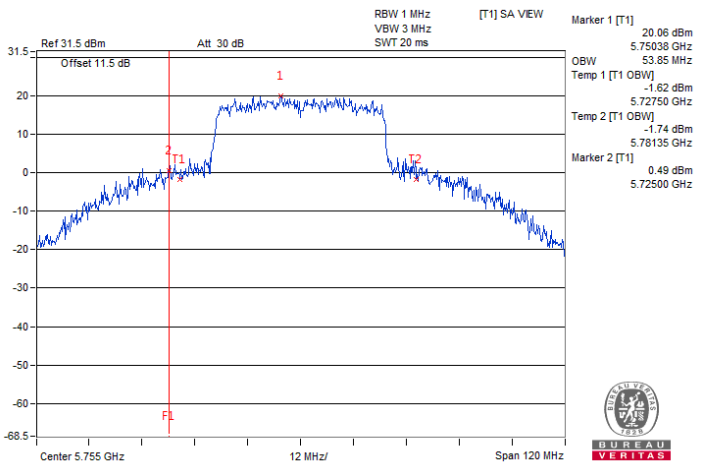
802.11ax (HE40) / Chain 0 : CH 151



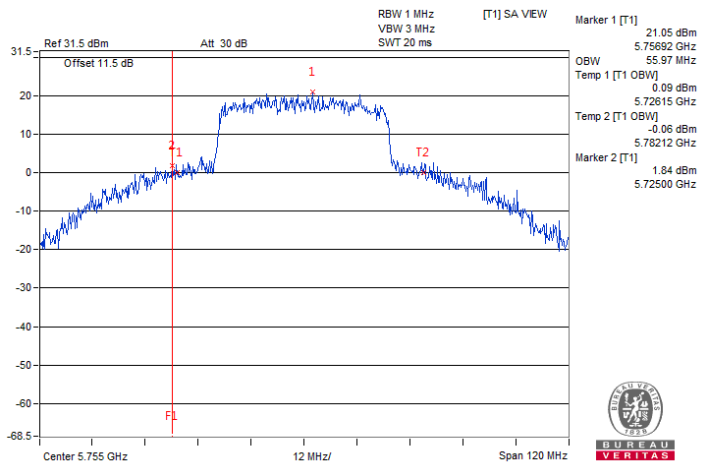
802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band

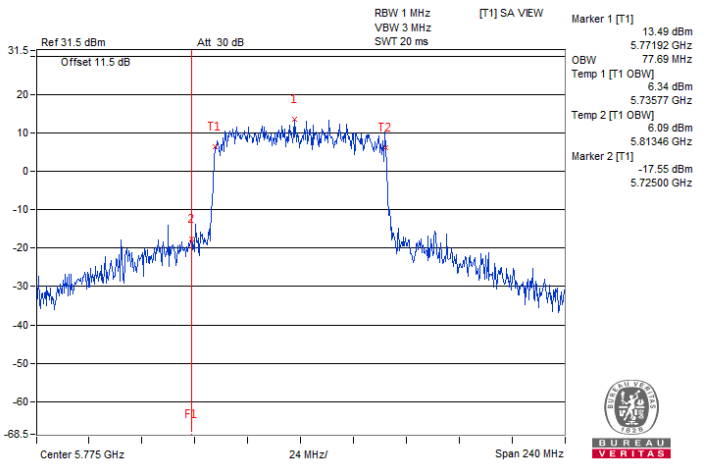
(DFS is required, if 99% OCP straddle into U-NII-2C band)



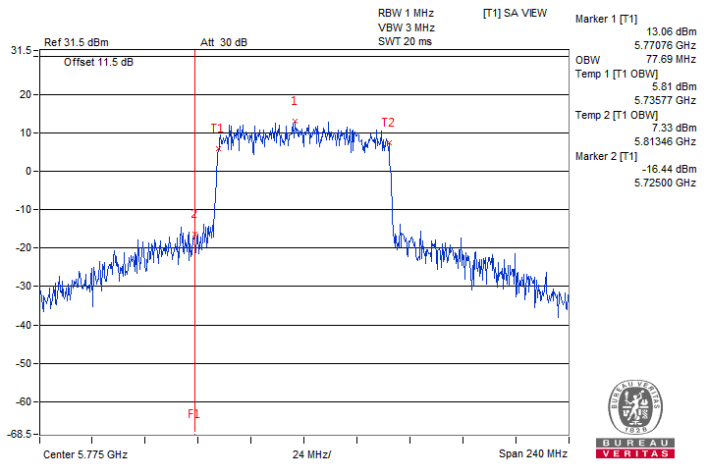
802.11ax (HE40) / Chain 2 : CH 151



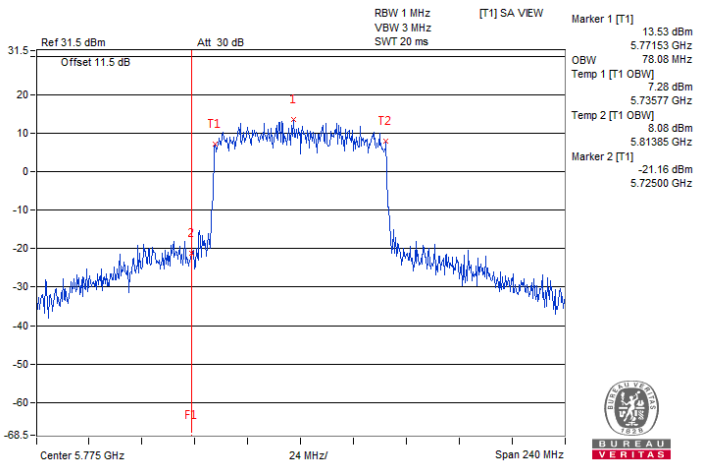
802.11ax (HE40) / Chain 3 : CH 151



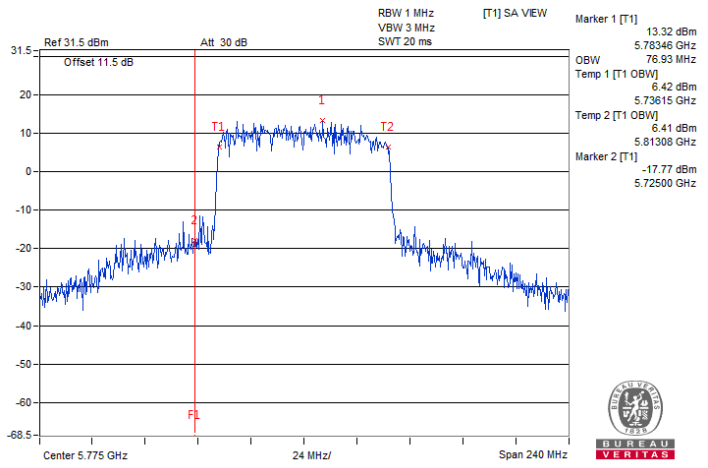
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

NSS 4

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	19.23	19.13	19.13	19.13
116	5580	19.13	19.13	19.13	19.13
140	5700	19.13	19.13	19.13	19.13
144 (U-NII-2C)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3)	5720	4.60	4.60	4.48	4.48
149	5745	32.98	31.82	19.81	23.27
157	5785	30.77	32.60	26.73	23.37
165	5825	20.19	19.61	19.33	19.71

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	37.89	37.89	37.98	37.89
110	5550	38.08	37.89	37.89	37.89
134	5670	37.89	37.88	37.89	38.08
142 (U-NII-2C)	5710	33.96	33.96	33.96	33.96
142 (U-NII-3)	5710	3.72	3.96	3.96	3.72
151	5755	57.69	55.96	53.46	55.96
159	5795	41.35	42.88	39.62	43.27

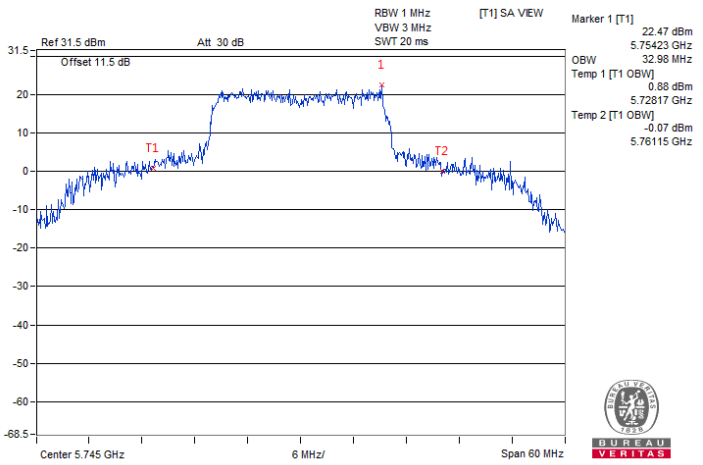
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	76.92	77.31	76.54	77.31
122	5610	77.11	77.11	77.11	77.11
138 (U-NII-2C)	5690	73.61	73.61	73.61	73.61
138 (U-NII-3)	5690	3.61	3.61	3.61	3.61
155	5775	77.70	77.31	77.31	77.69

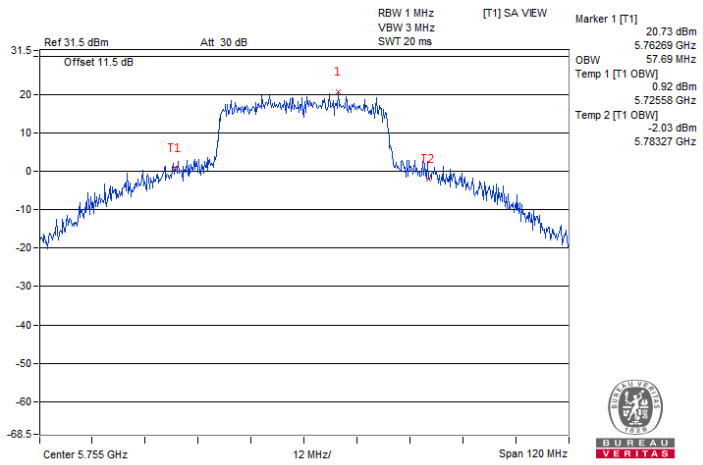
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	154.61	154.61	154.61	154.61

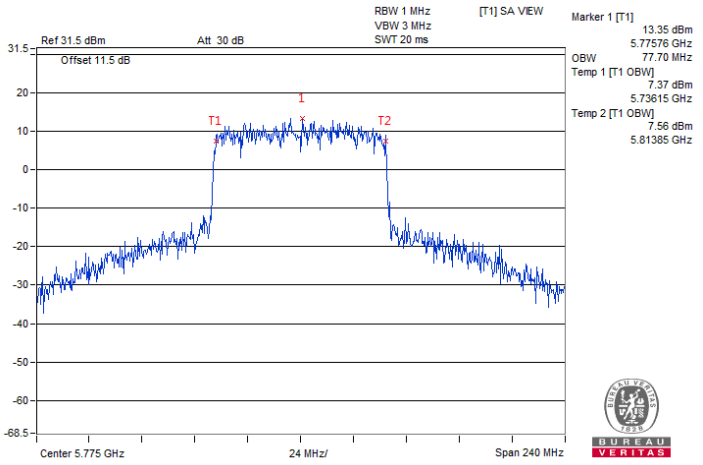
Spectrum Plot of Maximum Value



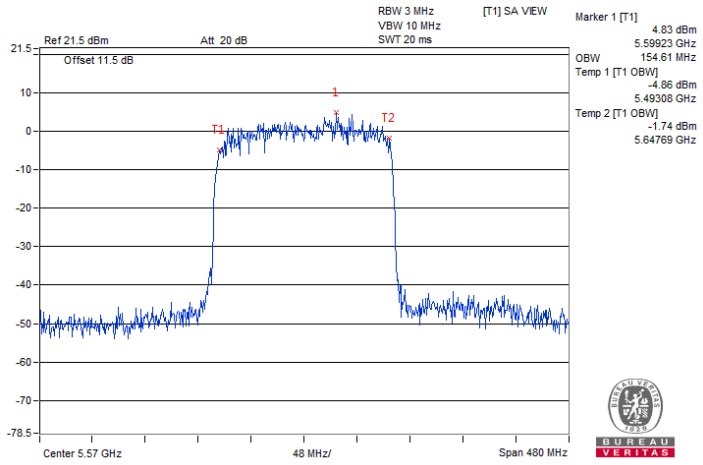
802.11ax (HE20) / Chain0 : CH 149



802.11ax (HE40) / Chain0 : CH 151



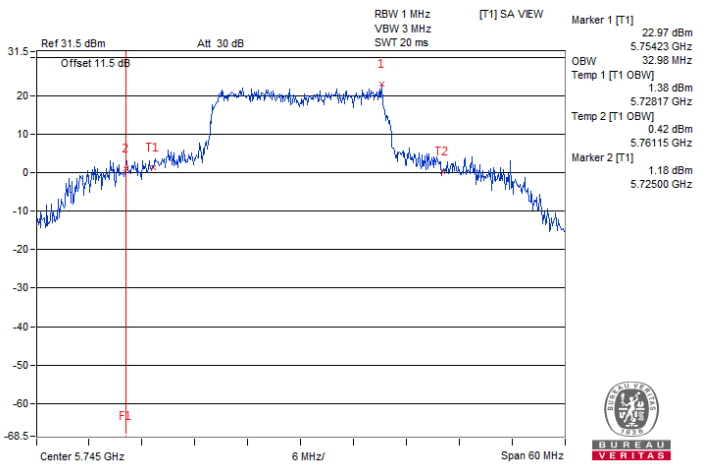
802.11ax (HE80) / Chain0 : CH 155



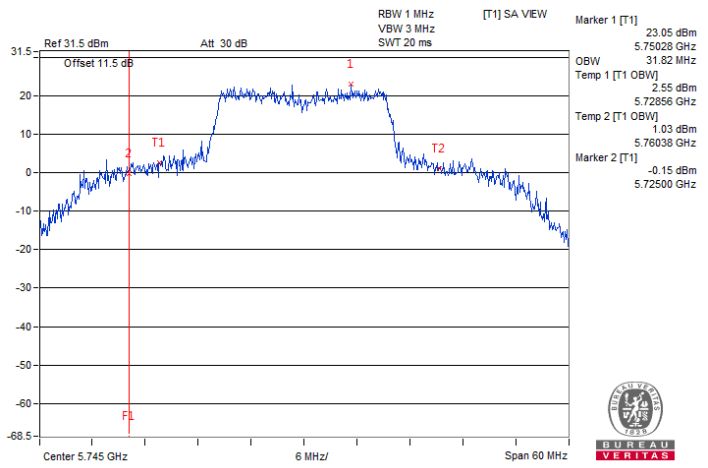
802.11ax (HE160) / Chain0 : CH 114

Spectrum Plot for nearby DFS band

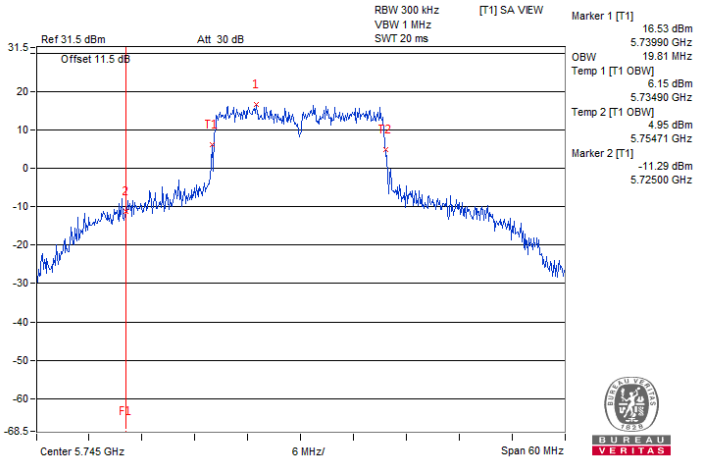
(DFS is required, if 99% OCP straddle into U-NII-2C band)



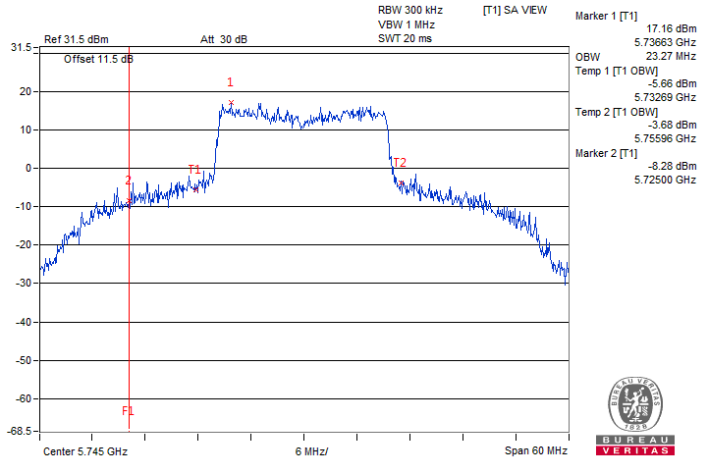
802.11ax (HE20) / Chain 0 : CH 149



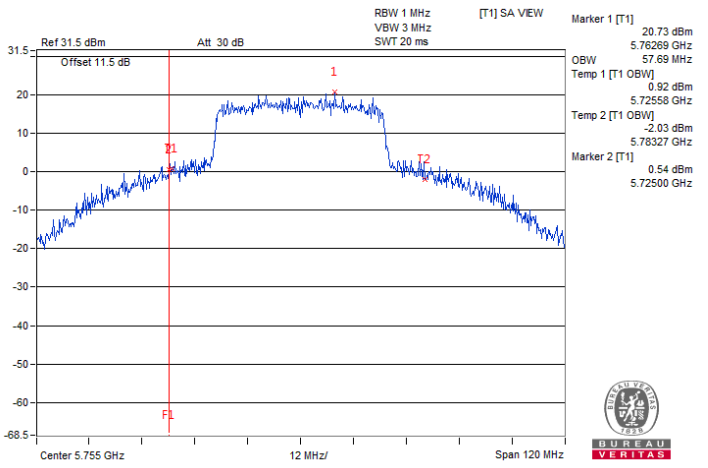
802.11ax (HE20) / Chain 1 : CH 149



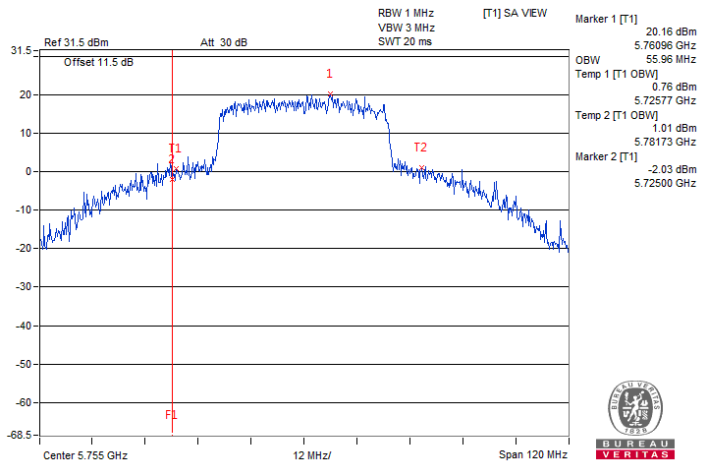
802.11ax (HE20) / Chain 2 : CH 149



802.11ax (HE20) / Chain 3 : CH 149



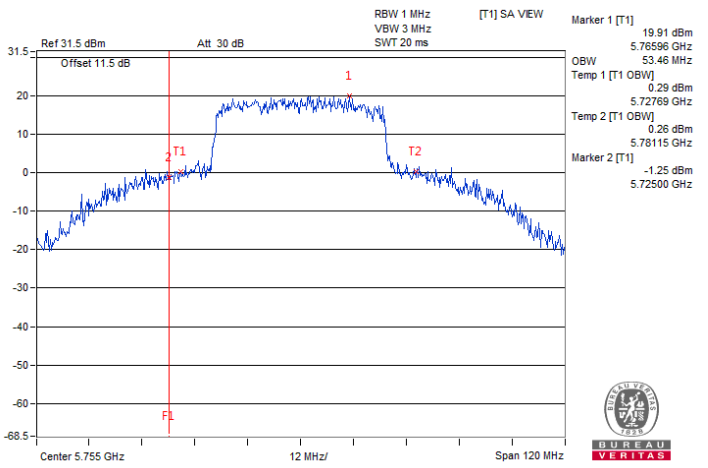
802.11ax (HE40) / Chain 0 : CH 151



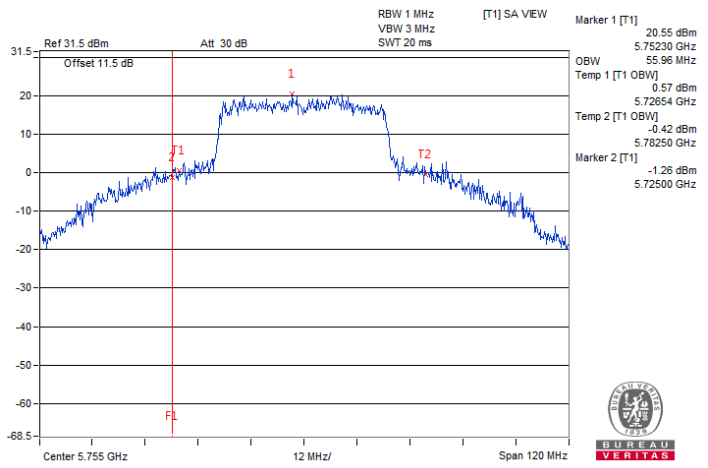
802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band

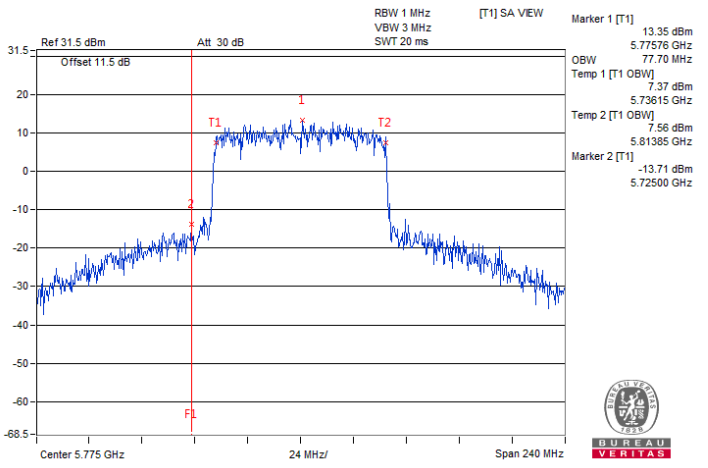
(DFS is required, if 99% OCP straddle into U-NII-2C band)



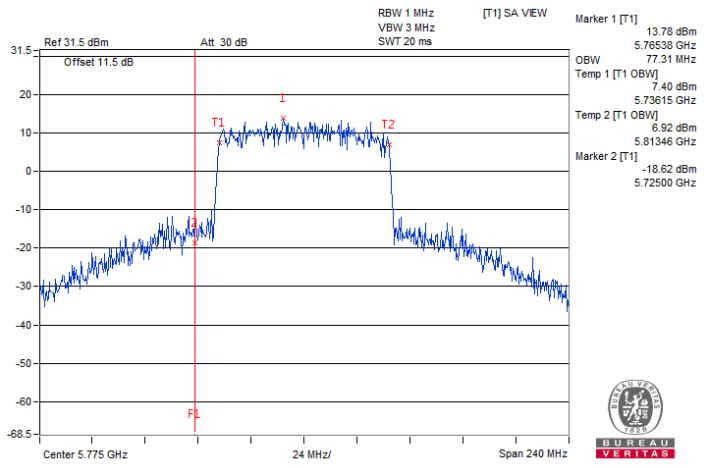
802.11ax (HE40) / Chain 2 : CH 151



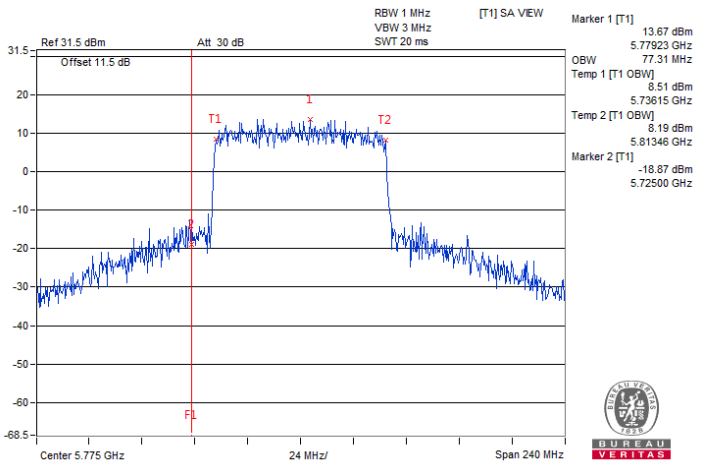
802.11ax (HE40) / Chain 3 : CH 151



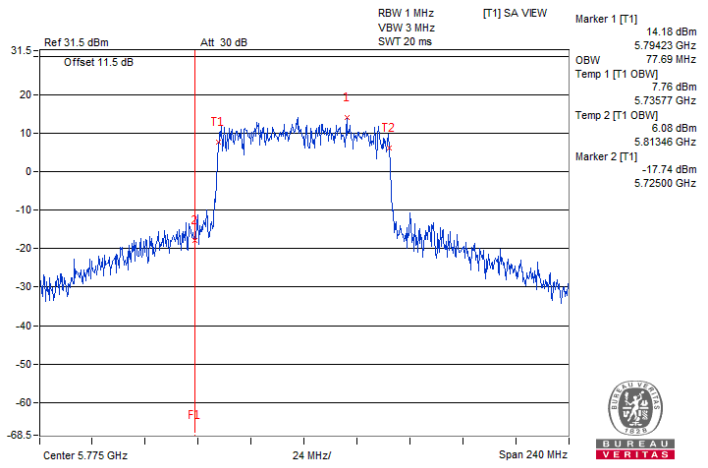
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin

802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5180.0029	Pass	5180.0017	Pass	5180.0038	Pass	5180.0028	Pass
30	120	5179.9892	Pass	5179.9902	Pass	5179.9885	Pass	5179.9885	Pass
20	120	5179.9849	Pass	5179.9824	Pass	5179.9847	Pass	5179.9845	Pass
10	120	5179.9811	Pass	5179.9777	Pass	5179.9814	Pass	5179.9819	Pass
0	120	5179.9928	Pass	5179.9925	Pass	5179.9971	Pass	5179.9937	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.9818	Pass	5179.9788	Pass	5179.9813	Pass	5179.9818	Pass
	120	5179.9849	Pass	5179.9824	Pass	5179.9847	Pass	5179.9845	Pass
	102	5179.9903	Pass	5179.9906	Pass	5179.9869	Pass	5179.9891	Pass

802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5500 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5499.9796	Pass	5499.9781	Pass	5499.9748	Pass	5499.9792	Pass
30	120	5500.0126	Pass	5500.0082	Pass	5500.0119	Pass	5500.0115	Pass
20	120	5499.9988	Pass	5500.0017	Pass	5499.9993	Pass	5500.0002	Pass
10	120	5500.0152	Pass	5500.017	Pass	5500.0152	Pass	5500.0156	Pass
0	120	5499.9743	Pass	5499.9741	Pass	5499.9731	Pass	5499.975	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5500 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5500.0052	Pass	5500.0072	Pass	5500.0043	Pass	5500.0049	Pass
	120	5499.9988	Pass	5500.0017	Pass	5499.9993	Pass	5500.0002	Pass
	102	5499.9904	Pass	5499.9904	Pass	5499.992	Pass	5499.9887	Pass

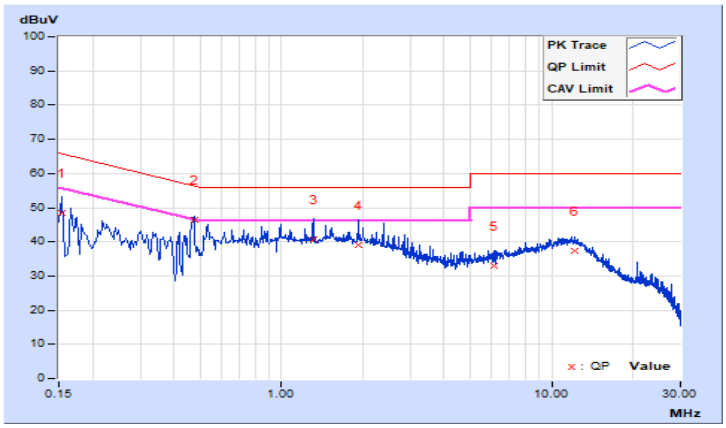
7.7 AC Power Conducted Emissions

RF Mode	TX 802.11a	**Channel**	CH 149：5745 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15400	10.13	38.50	20.92	48.63	31.05	65.78	55.78	-17.15	-24.73
2	**0.47400**	**10.25**	**36.37**	**29.13**	**46.62**	**39.38**	**56.44**	**46.44**	**-9.82**	**-7.06**
3	1.31000	10.32	30.45	23.01	40.77	33.33	56.00	46.00	-15.23	-12.67
4	1.91800	10.36	28.82	21.23	39.18	31.59	56.00	46.00	-16.82	-14.41
5	6.09800	10.42	22.68	14.97	33.10	25.39	60.00	50.00	-26.90	-24.61
6	12.15000	10.49	26.95	20.73	37.44	31.22	60.00	50.00	-22.56	-18.78

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

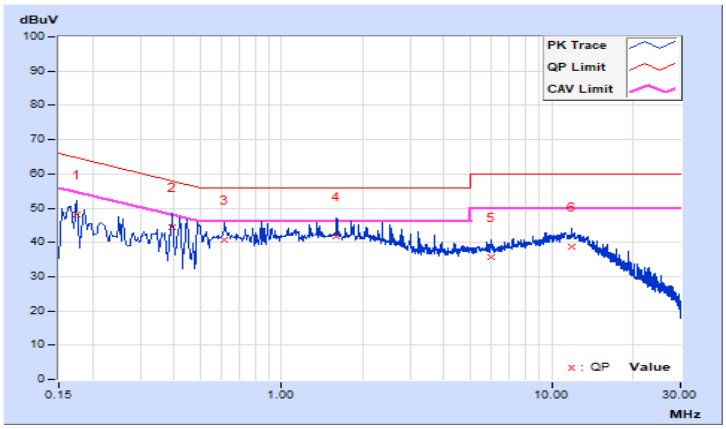


RF Mode	TX 802.11a	Channel	CH 149：5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17400	10.16	38.11	25.00	48.27	35.16	64.77	54.77	-16.50	-19.61
2	0.39400	10.26	34.11	27.45	44.37	37.71	57.98	47.98	-13.61	-10.27
3	0.61800	10.28	30.49	22.74	40.77	33.02	56.00	46.00	-15.23	-12.98
4	1.59000	10.34	31.47	26.04	41.81	36.38	56.00	46.00	-14.19	-9.62
5	5.94600	10.44	25.25	17.89	35.69	28.33	60.00	50.00	-24.31	-21.67
6	11.87000	10.55	28.28	21.82	38.83	32.37	60.00	50.00	-21.17	-17.63

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



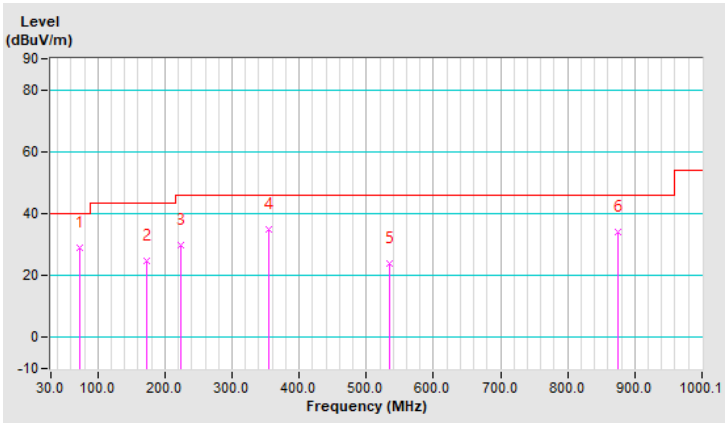
7.8 Unwanted Emissions below 1 GHz

RF Mode	TX 802.11a	Channel	CH 149：5745 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	73.65	29.1 QP	40.0	-10.9	2.18 H	219	45.0	-15.9
2	173.57	24.9 QP	43.5	-18.6	3.02 H	56	38.3	-13.4
3	224.02	29.9 QP	46.0	-16.1	2.55 H	325	46.4	-16.5
4	354.98	34.8 QP	46.0	-11.2	2.80 H	303	45.0	-10.2
5	535.42	24.0 QP	46.0	-22.0	2.38 H	292	29.5	-5.5
6	874.96	34.1 QP	46.0	-11.9	2.70 H	70	32.7	1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

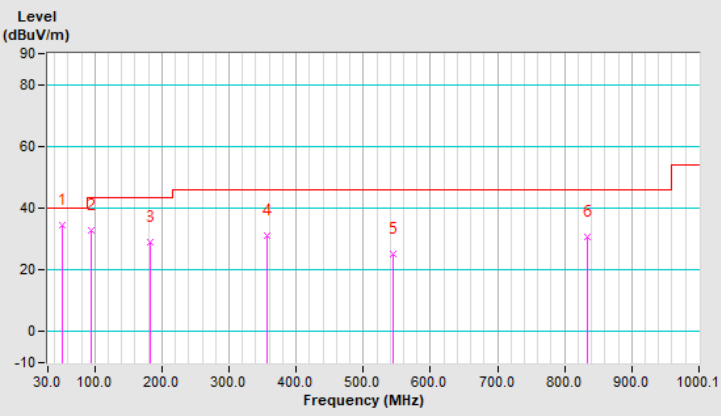


RF Mode	TX 802.11a	Channel	CH 149：5745 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**51.34**	**34.5 QP**	**40.0**	**-5.5**	**1.29 V**	**174**	**47.1**	**-12.6**
2	95.00	32.9 QP	43.5	-10.6	1.61 V	173	50.6	-17.7
3	183.28	28.9 QP	43.5	-14.6	1.58 V	256	43.6	-14.7
4	355.95	31.3 QP	46.0	-14.7	2.59 V	323	41.6	-10.3
5	545.12	25.2 QP	46.0	-20.8	3.47 V	225	30.4	-5.2
6	833.24	30.7 QP	46.0	-15.3	1.76 V	303	29.7	1.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.9 Unwanted Emissions above 1 GHz

RF Mode	TX 802.11a	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	57.4 PK	74.0	-16.6	1.14 H	44	75.3	-17.9
2	5150.00	42.7 AV	54.0	-11.3	1.14 H	44	60.6	-17.9
3	*5180.00	108.6 PK			1.14 H	44	73.5	35.1
4	*5180.00	99.1 AV			1.14 H	44	64.0	35.1
5	#10360.00	49.1 PK	68.2	-19.1	1.98 H	189	56.2	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	65.0 PK	74.0	-9.0	1.44 V	36	82.9	-17.9
2	5150.00	52.4 AV	54.0	-1.6	1.44 V	36	70.3	-17.9
3	*5180.00	112.7 PK			1.44 V	36	77.6	35.1
4	*5180.00	104.0 AV			1.44 V	36	68.9	35.1
5	#10360.00	49.7 PK	68.2	-18.5	2.42 V	89	56.8	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	112.7 PK			1.12 H	44	76.4	36.3
2	*5200.00	103.3 AV			1.12 H	44	67.0	36.3
3	#10400.00	50.0 PK	68.2	-18.2	3.06 H	309	53.9	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	116.9 PK			1.45 V	34	80.6	36.3
2	*5200.00	108.3 AV			1.45 V	34	72.0	36.3
3	#10400.00	50.4 PK	68.2	-17.8	1.18 V	229	54.3	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.5 PK			1.01 H	44	76.2	36.3
2	*5240.00	102.7 AV			1.01 H	44	66.4	36.3
3	5350.00	49.0 PK	74.0	-25.0	1.01 H	44	65.5	-16.5
4	5350.00	38.5 AV	54.0	-15.5	1.01 H	44	55.0	-16.5
5	#10480.00	49.8 PK	68.2	-18.4	2.79 H	91	53.7	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.3 PK			1.22 V	34	81.0	36.3
2	*5240.00	108.6 AV			1.22 V	34	72.3	36.3
3	5350.00	49.1 PK	74.0	-24.9	1.22 V	34	65.6	-16.5
4	5350.00	38.6 AV	54.0	-15.4	1.22 V	34	55.1	-16.5
5	#10480.00	50.6 PK	68.2	-17.6	1.43 V	327	54.5	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.0 PK	74.0	-24.0	1.02 H	45	67.9	-17.9
2	5150.00	39.2 AV	54.0	-14.8	1.02 H	45	57.1	-17.9
3	*5260.00	107.5 PK			1.02 H	45	72.6	34.9
4	*5260.00	98.4 AV			1.02 H	45	63.5	34.9
5	#10520.00	49.6 PK	68.2	-18.6	2.79 H	163	56.5	-6.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.5 PK	74.0	-24.5	1.24 V	35	67.4	-17.9
2	5150.00	39.3 AV	54.0	-14.7	1.24 V	35	57.2	-17.9
3	*5260.00	113.0 PK			1.24 V	35	78.1	34.9
4	*5260.00	105.1 AV			1.24 V	35	70.2	34.9
5	#10520.00	50.3 PK	68.2	-17.9	2.27 V	280	57.2	-6.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	107.0 PK			1.06 H	44	72.2	34.8
2	*5300.00	97.0 AV			1.06 H	44	62.2	34.8
3	10600.00	49.7 PK	74.0	-24.3	3.35 H	119	56.5	-6.8
4	10600.00	40.6 AV	54.0	-13.4	3.35 H	119	47.4	-6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	112.3 PK			1.11 V	104	77.5	34.8
2	*5300.00	103.4 AV			1.11 V	104	68.6	34.8
3	10600.00	50.1 PK	74.0	-23.9	2.83 V	337	56.9	-6.8
4	10600.00	41.0 AV	54.0	-13.0	2.83 V	337	47.8	-6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11a	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	106.5 PK			1.00 H	44	71.7	34.8
2	*5320.00	97.0 AV			1.00 H	44	62.2	34.8
3	5350.00	56.9 PK	74.0	-17.1	1.00 H	44	74.7	-17.8
4	5350.00	42.8 AV	54.0	-11.2	1.00 H	44	60.6	-17.8
5	10640.00	49.1 PK	74.0	-24.9	3.61 H	24	55.8	-6.7
6	10640.00	41.3 AV	54.0	-12.7	3.61 H	24	48.0	-6.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.0 PK			1.08 V	104	78.2	34.8
2	*5320.00	104.0 AV			1.08 V	104	69.2	34.8
3	5350.00	68.6 PK	74.0	-5.4	1.08 V	104	86.4	-17.8
4	5350.00	52.7 AV	54.0	-1.3	1.08 V	104	70.5	-17.8
5	10640.00	49.9 PK	74.0	-24.1	3.02 V	207	56.6	-6.7
6	10640.00	41.5 AV	54.0	-12.5	3.02 V	207	48.2	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11a	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	49.4 PK	74.0	-24.6	2.51 H	218	66.8	-17.4
2	5460.00	39.2 AV	54.0	-14.8	2.51 H	218	56.6	-17.4
3	#5470.00	49.6 PK	68.2	-18.6	2.51 H	218	67.0	-17.4
4	*5500.00	100.9 PK			2.51 H	218	65.6	35.3
5	*5500.00	93.8 AV			2.51 H	218	58.5	35.3
6	11000.00	50.2 PK	74.0	-23.8	3.41 H	229	57.4	-7.2
7	11000.00	40.1 AV	54.0	-13.9	3.41 H	229	47.3	-7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.2 PK	74.0	-23.8	1.98 V	45	67.6	-17.4
2	5460.00	39.0 AV	54.0	-15.0	1.98 V	45	56.4	-17.4
3	#5470.00	67.4 PK	68.2	-0.8	1.98 V	45	84.8	-17.4
4	*5500.00	113.5 PK			1.98 V	45	78.2	35.3
5	*5500.00	106.3 AV			1.98 V	45	71.0	35.3
6	11000.00	51.2 PK	74.0	-22.8	2.36 V	197	58.4	-7.2
7	11000.00	41.1 AV	54.0	-12.9	2.36 V	197	48.3	-7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.4 PK			1.51 H	96	73.0	35.4
2	*5580.00	101.1 AV			1.51 H	96	65.7	35.4
3	11160.00	50.3 PK	74.0	-23.7	2.32 H	178	57.4	-7.1
4	11160.00	40.5 AV	54.0	-13.5	2.32 H	178	47.6	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	122.0 PK			2.05 V	44	86.6	35.4
2	*5580.00	114.6 AV			2.05 V	44	79.2	35.4
3	11160.00	51.5 PK	74.0	-22.5	3.14 V	241	58.6	-7.1
4	11160.00	41.3 AV	54.0	-12.7	3.14 V	241	48.4	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	101.8 PK			1.84 H	125	66.0	35.8
2	*5700.00	95.1 AV			1.84 H	125	59.3	35.8
3	#5725.00	50.3 PK	68.2	-17.9	1.84 H	125	67.2	-16.9
4	11400.00	51.3 PK	74.0	-22.7	3.17 H	188	57.5	-6.2
5	11400.00	41.0 AV	54.0	-13.0	3.17 H	188	47.2	-6.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.2 PK			2.02 V	42	80.4	35.8
2	*5700.00	109.0 AV			2.02 V	42	73.2	35.8
3	#5725.00	64.1 PK	68.2	-4.1	2.02 V	42	81.0	-16.9
4	11400.00	52.2 PK	74.0	-21.8	2.36 V	178	58.4	-6.2
5	11400.00	42.0 AV	54.0	-12.0	2.36 V	178	48.2	-6.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.20	49.6 PK	68.2	-18.6	1.87 H	126	66.8	-17.2
2	*5745.00	107.7 PK			1.87 H	126	71.9	35.8
3	*5745.00	100.5 AV			1.87 H	126	64.7	35.8
4	#5959.20	49.6 PK	68.2	-18.6	1.87 H	126	66.3	-16.7
5	11490.00	51.3 PK	74.0	-22.7	3.62 H	178	57.6	-6.3
6	11490.00	41.0 AV	54.0	-13.0	3.62 H	178	47.3	-6.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.60	51.8 PK	68.2	-16.4	1.96 V	132	69.0	-17.2
2	*5745.00	121.8 PK			1.96 V	132	86.0	35.8
3	*5745.00	114.6 AV			1.96 V	132	78.8	35.8
4	#5953.20	52.6 PK	68.2	-15.6	1.96 V	132	69.4	-16.8
5	11490.00	52.1 PK	74.0	-21.9	3.12 V	220	58.4	-6.3
6	11490.00	42.0 AV	54.0	-12.0	3.12 V	220	48.3	-6.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11a	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.40	49.3 PK	68.2	-18.9	1.90 H	125	66.5	-17.2
2	*5785.00	108.3 PK			1.90 H	125	72.5	35.8
3	*5785.00	101.2 AV			1.90 H	125	65.4	35.8
4	#5991.60	49.5 PK	68.2	-18.7	1.90 H	125	66.2	-16.7
5	11570.00	50.7 PK	74.0	-23.3	3.47 H	298	57.3	-6.6
6	11570.00	40.9 AV	54.0	-13.1	3.47 H	298	47.5	-6.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.20	52.5 PK	68.2	-15.7	1.89 V	36	69.7	-17.2
2	*5785.00	121.1 PK			1.89 V	36	85.3	35.8
3	*5785.00	114.0 AV			1.89 V	36	78.2	35.8
4	#5980.80	52.7 PK	68.2	-15.5	1.89 V	36	69.4	-16.7
5	11570.00	52.1 PK	74.0	-21.9	3.62 V	222	58.7	-6.6
6	11570.00	42.3 AV	54.0	-11.7	3.62 V	222	48.9	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.20	50.1 PK	68.2	-18.1	1.71 H	124	67.3	-17.2
2	*5825.00	107.8 PK			1.71 H	124	71.8	36.0
3	*5825.00	100.6 AV			1.71 H	124	64.6	36.0
4	#5945.20	49.1 PK	68.2	-19.1	1.71 H	124	65.7	-16.6
5	11650.00	50.3 PK	74.0	-23.7	2.28 H	209	57.4	-7.1
6	11650.00	40.5 AV	54.0	-13.5	2.28 H	209	47.6	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5603.20	52.6 PK	68.2	-15.6	1.98 V	132	70.0	-17.4
2	*5825.00	121.5 PK			1.98 V	132	85.5	36.0
3	*5825.00	114.2 AV			1.98 V	132	78.2	36.0
4	#5928.00	52.0 PK	68.2	-16.2	1.98 V	132	68.6	-16.6
5	11650.00	51.6 PK	74.0	-22.4	3.10 V	187	58.7	-7.1
6	11650.00	41.5 AV	54.0	-12.5	3.10 V	187	48.6	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

NSS 1

RF Mode	TX 802.11ax (HE20)	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5145.00	56.0 PK	74.0	-18.0	1.26 H	260	72.7	-16.7
2	5145.00	46.3 AV	54.0	-7.7	1.26 H	260	63.0	-16.7
3	*5180.00	110.5 PK			1.26 H	260	74.2	36.3
4	*5180.00	100.1 AV			1.26 H	260	63.8	36.3
5	#10360.00	52.2 PK	68.2	-16.0	2.82 H	166	56.4	-4.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	1.22 V	92	79.6	-16.7
2	5150.00	52.8 AV	54.0	-1.2	1.22 V	92	69.5	-16.7
3	*5180.00	115.8 PK			1.22 V	92	79.5	36.3
4	*5180.00	104.7 AV			1.22 V	92	68.4	36.3
5	#10360.00	49.8 PK	68.2	-18.4	2.76 V	212	54.0	-4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	111.6 PK			1.00 H	50	75.3	36.3
2	*5200.00	101.6 AV			1.00 H	50	65.3	36.3
3	#10400.00	49.0 PK	68.2	-19.2	3.52 H	108	52.9	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	117.3 PK			1.00 V	100	81.0	36.3
2	*5200.00	107.0 AV			1.00 V	100	70.7	36.3
3	#10400.00	49.5 PK	68.2	-18.7	2.51 V	141	53.4	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	111.4 PK			1.00 H	51	75.1	36.3
2	*5240.00	100.6 AV			1.00 H	51	64.3	36.3
3	5350.00	48.8 PK	74.0	-25.2	1.00 H	51	65.3	-16.5
4	5350.00	39.1 AV	54.0	-14.9	1.00 H	51	55.6	-16.5
5	#10480.00	48.8 PK	68.2	-19.4	2.65 H	144	52.7	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.8 PK			1.00 V	98	81.5	36.3
2	*5240.00	107.4 AV			1.00 V	98	71.1	36.3
3	5350.00	49.3 PK	74.0	-24.7	1.00 V	98	65.8	-16.5
4	5350.00	39.5 AV	54.0	-14.5	1.00 V	98	56.0	-16.5
5	#10480.00	49.4 PK	68.2	-18.8	3.31 V	216	53.3	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	48.9 PK	74.0	-25.1	1.00 H	50	66.8	-17.9
2	5150.00	39.6 AV	54.0	-14.4	1.00 H	50	57.5	-17.9
3	*5260.00	107.2 PK			1.00 H	50	72.3	34.9
4	*5260.00	97.1 AV			1.00 H	50	62.2	34.9
5	#10520.00	49.5 PK	68.2	-18.7	2.97 H	143	56.4	-6.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.0 PK	74.0	-25.0	1.02 V	98	66.9	-17.9
2	5150.00	40.3 AV	54.0	-13.7	1.02 V	98	58.2	-17.9
3	*5260.00	113.0 PK			1.02 V	98	78.1	34.9
4	*5260.00	103.0 AV			1.02 V	98	68.1	34.9
5	#10520.00	50.0 PK	68.2	-18.2	1.74 V	119	56.9	-6.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	106.1 PK			1.05 H	48	71.3	34.8
2	*5300.00	95.0 AV			1.05 H	48	60.2	34.8
3	10600.00	50.0 PK	74.0	-24.0	2.58 H	340	56.8	-6.8
4	10600.00	40.4 AV	54.0	-13.6	2.58 H	340	47.2	-6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.1 PK			1.00 V	100	78.3	34.8
2	*5300.00	101.8 AV			1.00 V	100	67.0	34.8
3	10600.00	50.5 PK	74.0	-23.5	2.94 V	139	57.3	-6.8
4	10600.00	40.8 AV	54.0	-13.2	2.94 V	139	47.6	-6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.8 PK			1.00 H	50	71.0	34.8
2	*5320.00	95.3 AV			1.00 H	50	60.5	34.8
3	5350.00	50.7 PK	74.0	-23.3	1.00 H	50	68.5	-17.8
4	5350.00	40.5 AV	54.0	-13.5	1.00 H	50	58.3	-17.8
5	10640.00	50.1 PK	74.0	-23.9	3.35 H	53	56.8	-6.7
6	10640.00	40.4 AV	54.0	-13.6	3.35 H	53	47.1	-6.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.4 PK			1.00 V	103	77.6	34.8
2	*5320.00	101.6 AV			1.00 V	103	66.8	34.8
3	5350.00	63.2 PK	74.0	-10.8	1.00 V	103	81.0	-17.8
4	5350.00	47.3 AV	54.0	-6.7	1.00 V	103	65.1	-17.8
5	10640.00	50.5 PK	74.0	-23.5	1.15 V	333	57.2	-6.7
6	10640.00	40.9 AV	54.0	-13.1	1.15 V	333	47.6	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.2 PK	74.0	-23.8	2.51 H	222	67.6	-17.4
2	5460.00	39.3 AV	54.0	-14.7	2.51 H	222	56.7	-17.4
3	#5470.00	50.3 PK	68.2	-17.9	2.51 H	222	67.7	-17.4
4	*5500.00	106.1 PK			2.51 H	222	70.8	35.3
5	*5500.00	94.9 AV			2.51 H	222	59.6	35.3
6	11000.00	49.7 PK	74.0	-24.3	1.80 H	278	56.9	-7.2
7	11000.00	40.6 AV	54.0	-13.4	1.80 H	278	47.8	-7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.6 PK	74.0	-10.4	2.78 V	325	81.0	-17.4
2	5460.00	45.3 AV	54.0	-8.7	2.78 V	325	62.7	-17.4
3	#5470.00	67.4 PK	68.2	-0.8	2.78 V	325	84.8	-17.4
4	*5500.00	117.3 PK			2.78 V	325	82.0	35.3
5	*5500.00	106.9 AV			2.78 V	325	71.6	35.3
6	11000.00	50.7 PK	74.0	-23.3	2.29 V	240	57.9	-7.2
7	11000.00	40.8 AV	54.0	-13.2	2.29 V	240	48.0	-7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.5 PK			2.81 H	218	73.1	35.4
2	*5580.00	98.6 AV			2.81 H	218	63.2	35.4
3	11160.00	50.2 PK	74.0	-23.8	2.28 H	285	57.3	-7.1
4	11160.00	40.3 AV	54.0	-13.7	2.28 H	285	47.4	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	120.8 PK			2.55 V	300	85.4	35.4
2	*5580.00	110.0 AV			2.55 V	300	74.6	35.4
3	11160.00	50.6 PK	74.0	-23.4	3.93 V	96	57.7	-7.1
4	11160.00	40.8 AV	54.0	-13.2	3.93 V	96	47.9	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.0 PK			2.75 H	218	66.2	35.8
2	*5700.00	91.7 AV			2.75 H	218	55.9	35.8
3	#5725.00	50.3 PK	68.2	-17.9	2.75 H	218	67.2	-16.9
4	11400.00	50.4 PK	74.0	-23.6	2.83 H	139	56.6	-6.2
5	11400.00	41.4 AV	54.0	-12.6	2.83 H	139	47.6	-6.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	114.3 PK			2.59 V	304	78.5	35.8
2	*5700.00	104.0 AV			2.59 V	304	68.2	35.8
3	#5725.00	67.5 PK	68.2	-0.7	2.59 V	304	84.4	-16.9
4	11400.00	50.5 PK	74.0	-23.5	2.45 V	162	56.7	-6.2
5	11400.00	42.3 AV	54.0	-11.7	2.45 V	162	48.5	-6.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.80	52.8 PK	68.2	-15.4	1.09 H	128	70.2	-17.4
2	*5745.00	111.2 PK			1.09 H	128	75.4	35.8
3	*5745.00	101.5 AV			1.09 H	128	65.7	35.8
4	#5927.20	53.4 PK	68.2	-14.8	1.09 H	128	70.0	-16.6
5	#10490.00	50.2 PK	68.2	-18.0	1.89 H	211	57.1	-6.9
6	#10490.00	40.9 AV	54.0	-13.1	1.89 H	211	47.8	-6.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	51.3 PK	68.2	-16.9	1.47 V	339	68.5	-17.2
2	*5745.00	124.5 PK			1.47 V	339	88.7	35.8
3	*5745.00	114.1 AV			1.47 V	339	78.3	35.8
4	#5972.00	52.6 PK	68.2	-15.6	1.47 V	339	69.3	-16.7
5	11490.00	51.3 PK	74.0	-22.7	1.47 V	327	57.6	-6.3
6	11490.00	41.8 AV	54.0	-12.2	1.47 V	327	48.1	-6.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.20	52.5 PK	68.2	-15.7	1.10 H	129	69.8	-17.3
2	*5785.00	111.5 PK			1.10 H	129	75.7	35.8
3	*5785.00	100.9 AV			1.10 H	129	65.1	35.8
4	#5982.80	55.0 PK	68.2	-13.2	1.10 H	129	71.7	-16.7
5	11570.00	49.8 PK	74.0	-24.2	3.57 H	16	56.4	-6.6
6	11570.00	40.8 AV	54.0	-13.2	3.57 H	16	47.4	-6.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.20	52.4 PK	68.2	-15.8	1.50 V	339	69.6	-17.2
2	*5785.00	123.2 PK			1.50 V	339	87.4	35.8
3	*5785.00	113.3 AV			1.50 V	339	77.5	35.8
4	#5982.40	52.1 PK	68.2	-16.1	1.50 V	339	68.8	-16.7
5	11570.00	50.5 PK	74.0	-23.5	1.72 V	131	57.1	-6.6
6	11570.00	41.0 AV	54.0	-13.0	1.72 V	131	47.6	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5601.60	52.9 PK	68.2	-15.3	1.03 H	129	70.3	-17.4
2	*5825.00	109.8 PK			1.03 H	129	73.8	36.0
3	*5825.00	99.6 AV			1.03 H	129	63.6	36.0
4	#5953.60	52.9 PK	68.2	-15.3	1.03 H	129	69.7	-16.8
5	11650.00	49.6 PK	74.0	-24.4	3.78 H	183	56.7	-7.1
6	11650.00	40.3 AV	54.0	-13.7	3.78 H	183	47.4	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.80	52.8 PK	68.2	-15.4	1.48 V	339	70.0	-17.2
2	*5825.00	122.6 PK			1.48 V	339	86.6	36.0
3	*5825.00	112.8 AV			1.48 V	339	76.8	36.0
4	#5939.60	53.3 PK	68.2	-14.9	1.48 V	339	69.9	-16.6
5	11650.00	49.8 PK	74.0	-24.2	3.10 V	339	56.9	-7.1
6	11650.00	41.0 AV	54.0	-13.0	3.10 V	339	48.1	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.9 PK	74.0	-23.1	1.00 H	50	68.8	-17.9
2	5150.00	41.3 AV	54.0	-12.7	1.00 H	50	59.2	-17.9
3	*5190.00	100.8 PK			1.00 H	50	65.7	35.1
4	*5190.00	90.4 AV			1.00 H	50	55.3	35.1
5	#10380.00	49.6 PK	68.2	-18.6	1.49 H	230	56.7	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	1.00 V	97	82.4	-17.9
2	5150.00	53.4 AV	54.0	-0.6	1.00 V	97	71.3	-17.9
3	*5190.00	106.8 PK			1.00 V	97	71.7	35.1
4	*5190.00	96.5 AV			1.00 V	97	61.4	35.1
5	#10380.00	50.6 PK	68.2	-17.6	3.68 V	75	57.7	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	110.4 PK			1.00 H	50	74.1	36.3
2	*5230.00	99.8 AV			1.00 H	50	63.5	36.3
3	5350.00	49.2 PK	74.0	-24.8	1.00 H	50	65.7	-16.5
4	5350.00	38.2 AV	54.0	-15.8	1.00 H	50	54.7	-16.5
5	#10460.00	50.0 PK	68.2	-18.2	2.69 H	154	53.9	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	116.5 PK			1.00 V	97	80.2	36.3
2	*5230.00	106.7 AV			1.00 V	97	70.4	36.3
3	5350.00	49.3 PK	74.0	-24.7	1.00 V	97	65.8	-16.5
4	5350.00	38.3 AV	54.0	-15.7	1.00 V	97	54.8	-16.5
5	#10460.00	51.0 PK	68.2	-17.2	1.85 V	223	54.9	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.8 PK	74.0	-24.2	1.00 H	50	67.7	-17.9
2	5150.00	39.1 AV	54.0	-14.9	1.00 H	50	57.0	-17.9
3	*5270.00	105.6 PK			1.00 H	50	70.7	34.9
4	*5270.00	95.2 AV			1.00 H	50	60.3	34.9
5	#10540.00	49.5 PK	68.2	-18.7	3.52 H	319	56.4	-6.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.9 PK	74.0	-24.1	1.00 V	98	67.8	-17.9
2	5150.00	39.3 AV	54.0	-14.7	1.00 V	98	57.2	-17.9
3	*5270.00	111.8 PK			1.00 V	98	76.9	34.9
4	*5270.00	101.9 AV			1.00 V	98	67.0	34.9
5	#10540.00	50.8 PK	68.2	-17.4	1.10 V	344	57.7	-6.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	100.1 PK			1.19 H	246	65.3	34.8
2	*5310.00	88.9 AV			1.19 H	246	54.1	34.8
3	5350.00	49.9 PK	74.0	-24.1	1.19 H	246	67.7	-17.8
4	5350.00	41.2 AV	54.0	-12.8	1.19 H	246	59.0	-17.8
5	10620.00	50.6 PK	74.0	-23.4	3.56 H	178	57.4	-6.8
6	10620.00	40.5 AV	54.0	-13.5	3.56 H	178	47.3	-6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	105.4 PK			1.00 V	97	70.6	34.8
2	*5310.00	95.3 AV			1.00 V	97	60.4	34.8
3	5350.00	63.7 PK	74.0	-10.3	1.00 V	97	81.6	-17.8
4	5350.00	53.4 AV	54.0	-0.6	1.00 V	97	71.2	-17.8
5	10620.00	51.6 PK	74.0	-22.4	3.21 V	224	58.4	-6.8
6	10620.00	41.8 AV	54.0	-12.2	3.21 V	224	48.6	-6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	2.46 H	223	67.8	-17.4
2	5460.00	40.0 AV	54.0	-14.0	2.46 H	223	57.4	-17.4
3	#5470.00	50.5 PK	68.2	-17.7	2.46 H	223	67.9	-17.4
4	*5510.00	96.8 PK			2.46 H	223	61.5	35.3
5	*5510.00	85.7 AV			2.46 H	223	50.4	35.3
6	11020.00	50.2 PK	74.0	-23.8	2.02 H	346	57.4	-7.2
7	11020.00	40.1 AV	54.0	-13.9	2.02 H	346	47.3	-7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.47 V	278	78.6	-17.4
2	5460.00	47.5 AV	54.0	-6.5	2.47 V	278	64.9	-17.4
3	#5470.00	67.5 PK	68.2	-0.7	2.47 V	278	84.9	-17.4
4	*5510.00	108.7 PK			2.47 V	278	73.4	35.3
5	*5510.00	98.7 AV			2.47 V	278	63.4	35.3
6	11020.00	50.7 PK	74.0	-23.3	1.82 V	133	57.9	-7.2
7	11020.00	40.6 AV	54.0	-13.4	1.82 V	133	47.8	-7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	105.6 PK			2.42 H	225	70.2	35.4
2	*5550.00	94.9 AV			2.42 H	225	59.5	35.4
3	11100.00	49.3 PK	74.0	-24.7	1.97 H	233	56.3	-7.0
4	11100.00	41.1 AV	54.0	-12.9	1.97 H	233	48.1	-7.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	118.0 PK			2.48 V	302	82.6	35.4
2	*5550.00	107.4 AV			2.48 V	302	72.0	35.4
3	11100.00	49.7 PK	74.0	-24.3	1.16 V	265	56.7	-7.0
4	11100.00	41.4 AV	54.0	-12.6	1.16 V	265	48.4	-7.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	102.5 PK			2.35 H	222	66.8	35.7
2	*5670.00	91.9 AV			2.35 H	222	56.2	35.7
3	#5725.00	50.6 PK	68.2	-17.6	2.35 H	222	67.5	-16.9
4	11340.00	50.2 PK	74.0	-23.8	2.28 H	197	56.8	-6.6
5	11340.00	41.4 AV	54.0	-12.6	2.28 H	197	48.0	-6.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	114.4 PK			2.31 V	270	78.7	35.7
2	*5670.00	103.5 AV			2.31 V	270	67.8	35.7
3	#5725.00	67.6 PK	68.2	-0.6	2.31 V	270	84.5	-16.9
4	11340.00	51.1 PK	74.0	-22.9	2.92 V	21	57.7	-6.6
5	11340.00	41.8 AV	54.0	-12.2	2.92 V	21	48.4	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.60	53.1 PK	68.2	-15.1	1.12 H	128	70.4	-17.3
2	*5755.00	107.7 PK			1.12 H	128	71.9	35.8
3	*5755.00	98.4 AV			1.12 H	128	62.6	35.8
4	#5951.20	52.5 PK	68.2	-15.7	1.12 H	128	69.3	-16.8
5	11510.00	50.1 PK	74.0	-23.9	2.72 H	215	56.6	-6.5
6	11510.00	41.7 AV	54.0	-12.3	2.72 H	215	48.2	-6.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.80	58.0 PK	68.2	-10.2	1.48 V	339	75.1	-17.1
2	*5755.00	119.4 PK			1.48 V	339	83.6	35.8
3	*5755.00	110.3 AV			1.48 V	339	74.5	35.8
4	#5933.60	53.0 PK	68.2	-15.2	1.48 V	339	69.6	-16.6
5	11510.00	51.2 PK	74.0	-22.8	2.67 V	316	57.7	-6.5
6	11510.00	42.1 AV	54.0	-11.9	2.67 V	316	48.6	-6.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	52.1 PK	68.2	-16.1	1.06 H	129	69.3	-17.2
2	*5795.00	107.6 PK			1.06 H	129	71.7	35.9
3	*5795.00	97.7 AV			1.06 H	129	61.8	35.9
4	#5930.00	52.8 PK	68.2	-15.4	1.06 H	129	69.4	-16.6
5	11590.00	50.0 PK	74.0	-24.0	2.07 H	292	56.8	-6.8
6	11590.00	40.1 AV	54.0	-13.9	2.07 H	292	46.9	-6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	53.1 PK	68.2	-15.1	1.55 V	339	70.3	-17.2
2	*5795.00	118.6 PK			1.55 V	339	82.7	35.9
3	*5795.00	109.5 AV			1.55 V	339	73.6	35.9
4	#5931.20	53.7 PK	68.2	-14.5	1.55 V	339	70.3	-16.6
5	11590.00	50.3 PK	74.0	-23.7	1.38 V	142	57.1	-6.8
6	11590.00	40.8 AV	54.0	-13.2	1.38 V	142	47.6	-6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.9 PK	74.0	-20.1	2.49 H	201	71.8	-17.9
2	5150.00	42.1 AV	54.0	-11.9	2.49 H	201	60.0	-17.9
3	*5210.00	99.2 PK			2.49 H	201	64.1	35.1
4	*5210.00	88.7 AV			2.49 H	201	53.6	35.1
5	#10420.00	50.4 PK	68.2	-17.8	2.39 H	114	57.4	-7.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.6 PK	74.0	-9.4	1.21 V	47	82.5	-17.9
2	5150.00	53.4 AV	54.0	-0.6	1.21 V	47	71.3	-17.9
3	*5210.00	104.4 PK			1.21 V	47	69.3	35.1
4	*5210.00	96.3 AV			1.21 V	47	61.2	35.1
5	#10420.00	51.4 PK	68.2	-16.8	2.32 V	197	58.4	-7.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	97.0 PK			2.68 H	202	62.2	34.8
2	*5290.00	86.1 AV			2.68 H	202	51.3	34.8
3	5350.00	51.0 PK	74.0	-23.0	2.68 H	202	68.8	-17.8
4	5350.00	40.4 AV	54.0	-13.6	2.68 H	202	58.2	-17.8
5	#10580.00	50.8 PK	68.2	-17.4	3.32 H	141	57.6	-6.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	102.8 PK			1.10 V	59	68.0	34.8
2	*5290.00	92.6 AV			1.10 V	59	57.8	34.8
3	5350.00	66.2 PK	74.0	-7.8	1.10 V	59	84.0	-17.8
4	5350.00	53.5 AV	54.0	-0.5	1.10 V	59	71.3	-17.8
5	#10580.00	51.6 PK	68.2	-16.6	3.26 V	197	58.4	-6.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	49.7 PK	74.0	-24.3	2.55 H	222	67.1	-17.4
2	5460.00	39.3 AV	54.0	-14.7	2.55 H	222	56.7	-17.4
3	#5470.00	49.9 PK	68.2	-18.3	2.55 H	222	67.3	-17.4
4	*5530.00	93.7 PK			2.55 H	222	58.3	35.4
5	*5530.00	83.7 AV			2.55 H	222	48.3	35.4
6	11060.00	49.7 PK	74.0	-24.3	2.46 H	346	56.8	-7.1
7	11060.00	40.5 AV	54.0	-13.5	2.46 H	346	47.6	-7.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5453.00	66.5 PK	74.0	-7.5	2.57 V	319	83.9	-17.4
2	5453.00	52.9 AV	54.0	-1.1	2.57 V	319	70.3	-17.4
3	#5470.00	67.7 PK	68.2	-0.5	2.57 V	319	85.1	-17.4
4	*5530.00	106.1 PK			2.57 V	319	70.7	35.4
5	*5530.00	95.8 AV			2.57 V	319	60.4	35.4
6	11060.00	50.0 PK	74.0	-24.0	1.80 V	48	57.1	-7.1
7	11060.00	40.7 AV	54.0	-13.3	1.80 V	48	47.8	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	49.5 PK	74.0	-24.5	2.48 H	218	66.9	-17.4
2	5460.00	39.1 AV	54.0	-14.9	2.48 H	218	56.5	-17.4
3	#5470.00	50.0 PK	68.2	-18.2	2.48 H	218	67.4	-17.4
4	*5610.00	102.0 PK			2.48 H	218	66.6	35.4
5	*5610.00	91.3 AV			2.48 H	218	55.9	35.4
6	#5725.00	51.9 PK	68.2	-16.3	2.48 H	218	68.8	-16.9
7	11220.00	49.9 PK	74.0	-24.1	2.53 H	177	56.9	-7.0
8	11220.00	40.6 AV	54.0	-13.4	2.53 H	177	47.6	-7.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	2.59 V	302	78.5	-17.4
2	5460.00	44.1 AV	54.0	-9.9	2.59 V	302	61.5	-17.4
3	#5470.00	62.4 PK	68.2	-5.8	2.59 V	302	79.8	-17.4
4	*5610.00	113.4 PK			2.59 V	302	78.0	35.4
5	*5610.00	102.9 AV			2.59 V	302	67.5	35.4
6	#5725.00	67.3 PK	68.2	-0.9	2.59 V	302	84.2	-16.9
7	11220.00	50.2 PK	74.0	-23.8	1.03 V	73	57.2	-7.0
8	11220.00	41.8 AV	54.0	-12.2	1.03 V	73	48.8	-7.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	102.0 PK			2.53 H	216	66.2	35.8
2	*5775.00	91.3 AV			2.53 H	216	55.5	35.8
3	*5775.00	102.0 PK			2.53 H	216	66.2	35.8
4	*5775.00	91.3 AV			2.53 H	216	55.5	35.8
5	11550.00	50.3 PK	74.0	-23.7	1.51 H	306	56.9	-6.6
6	11550.00	40.7 AV	54.0	-13.3	1.51 H	306	47.3	-6.6
7	11550.00	50.3 PK	74.0	-23.7	1.51 H	306	56.9	-6.6
8	11550.00	40.7 AV	54.0	-13.3	1.51 H	306	47.3	-6.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	114.3 PK			2.53 V	349	78.5	35.8
2	*5775.00	103.9 AV			2.53 V	349	68.1	35.8
3	*5775.00	114.3 PK			2.53 V	349	78.5	35.8
4	*5775.00	103.9 AV			2.53 V	349	68.1	35.8
5	11550.00	50.8 PK	74.0	-23.2	2.22 V	359	57.4	-6.6
6	11550.00	41.8 AV	54.0	-12.2	2.22 V	359	48.4	-6.6
7	11550.00	50.8 PK	74.0	-23.2	2.22 V	359	57.4	-6.6
8	11550.00	41.8 AV	54.0	-12.2	2.22 V	359	48.4	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

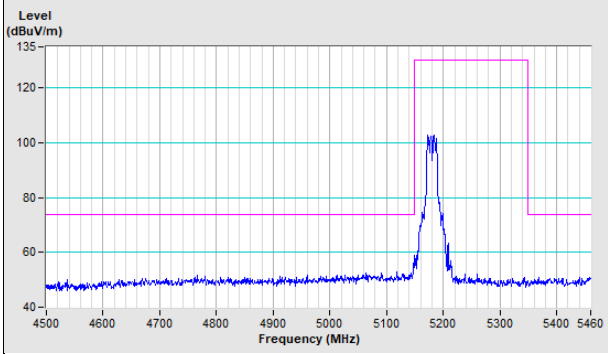
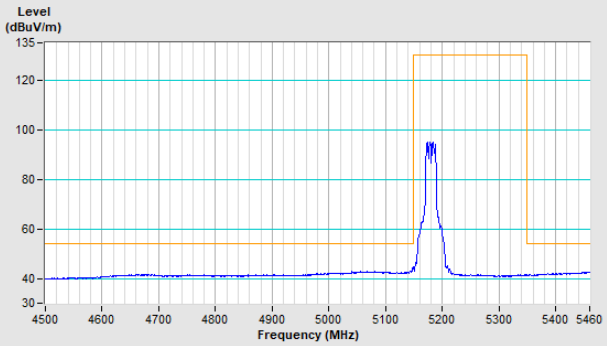
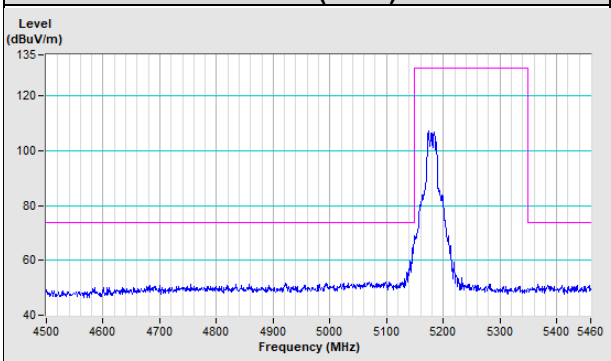
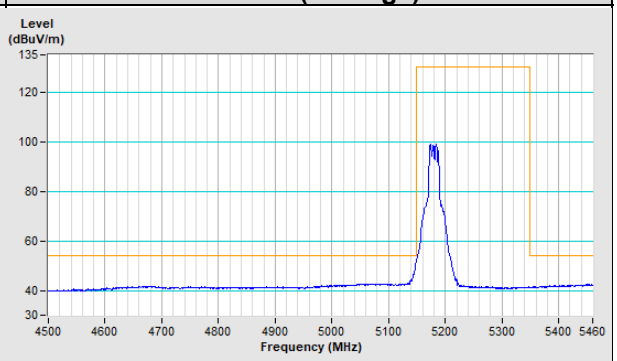
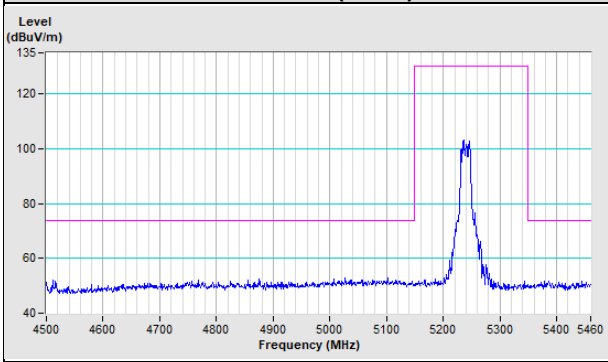
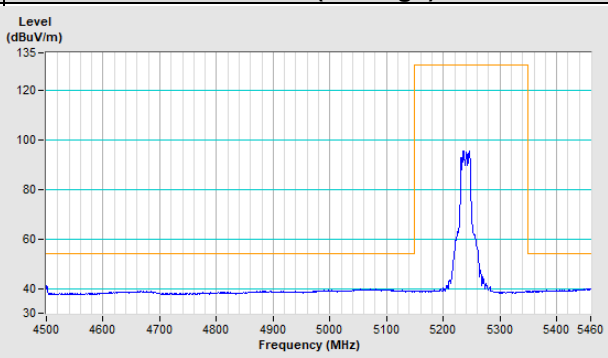
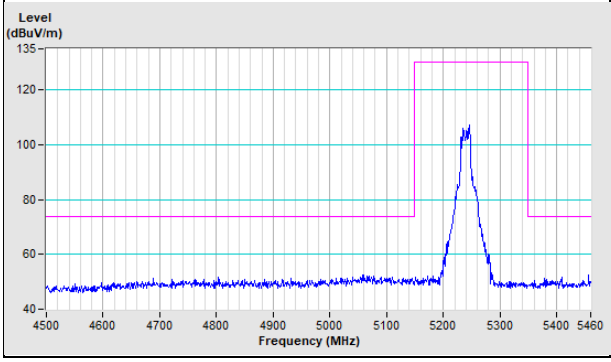
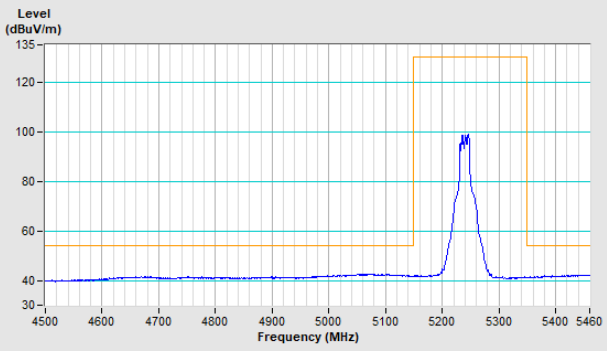
RF Mode	TX 802.11ax (HE160)	Channel	CH 114：5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.5 PK	74.0	-22.5	1.43 H	106	67.6	-16.1
2	5460.00	41.4 AV	54.0	-12.6	1.43 H	106	57.5	-16.1
3	#5470.00	51.8 PK	68.2	-16.4	1.43 H	106	67.9	-16.1
4	*5570.00	87.2 PK			1.43 H	106	50.5	36.7
5	*5570.00	79.2 AV			1.43 H	106	42.5	36.7
6	11140.00	53.9 PK	74.0	-20.1	3.26 H	288	57.4	-3.5
7	11140.00	43.7 AV	54.0	-10.3	3.26 H	288	47.2	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5453.62	61.4 PK	74.0	-12.6	2.84 V	340	77.5	-16.1
2	5453.62	53.1 AV	54.0	-0.9	2.84 V	340	69.2	-16.1
3	#5466.16	59.1 PK	68.2	-9.1	2.84 V	340	75.2	-16.1
4	*5570.00	100.1 PK			2.84 V	340	63.4	36.7
5	*5570.00	91.6 AV			2.84 V	340	54.9	36.7
6	11140.00	55.2 PK	74.0	-18.8	3.26 V	297	58.7	-3.5
7	11140.00	45.1 AV	54.0	-8.9	3.26 V	297	48.6	-3.5

Remarks:

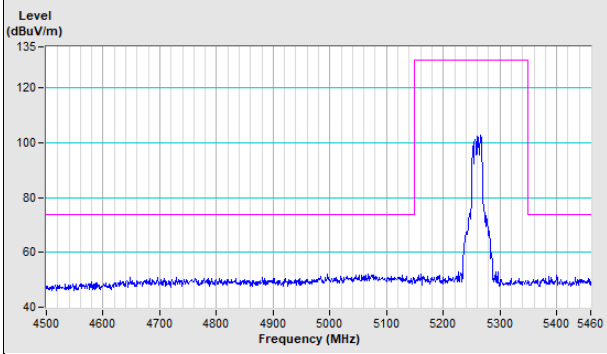
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

Plot of Band Edge

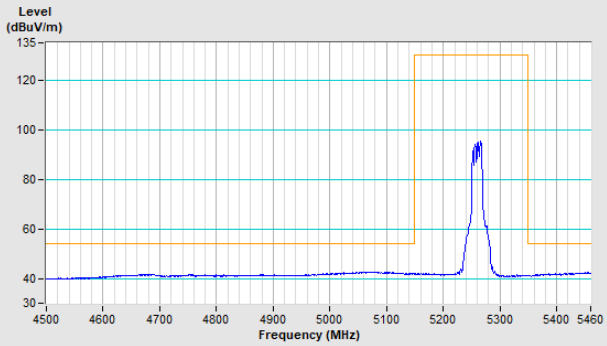
802.11a Channel 36	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11a Channel 48	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11a Channel 52

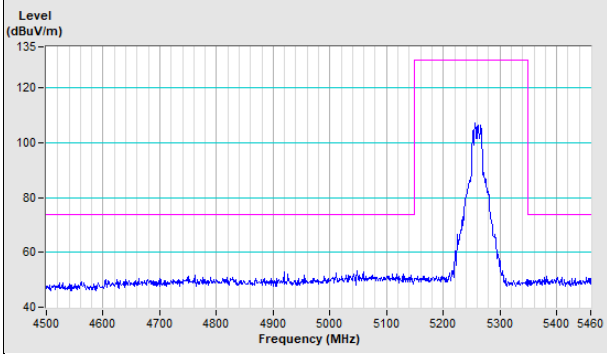
Horizontal (Peak)



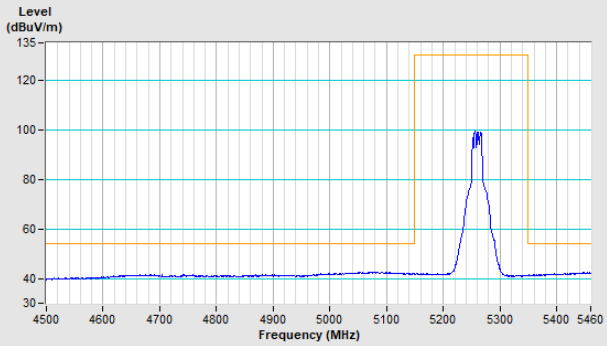
Horizontal (Average)



Vertical (Peak)

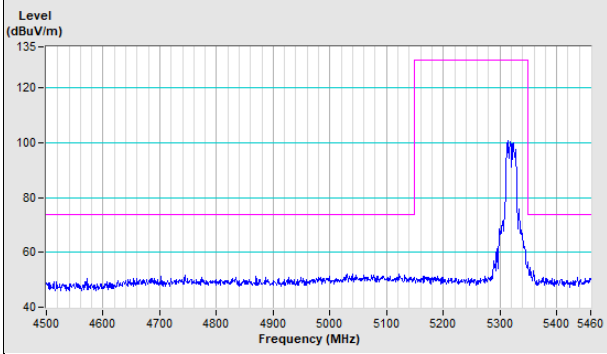


Vertical (Average)

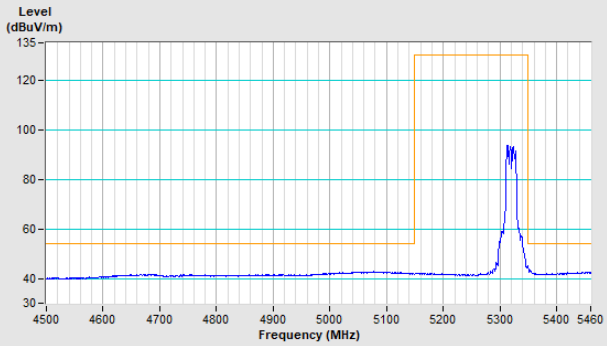


802.11a Channel 64

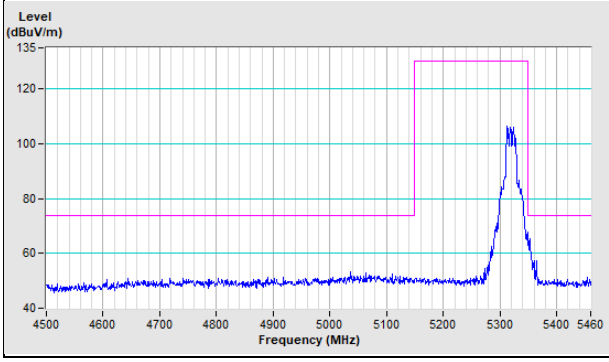
Horizontal (Peak)



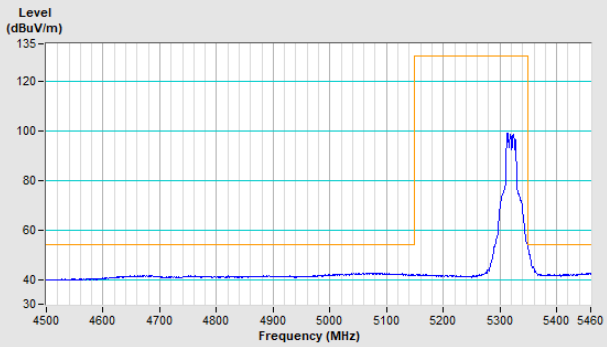
Horizontal (Average)



Vertical (Peak)

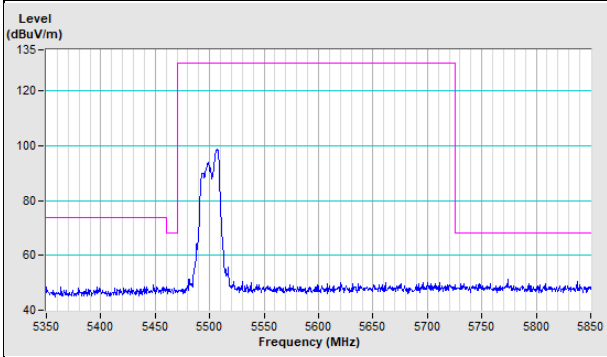


Vertical (Average)

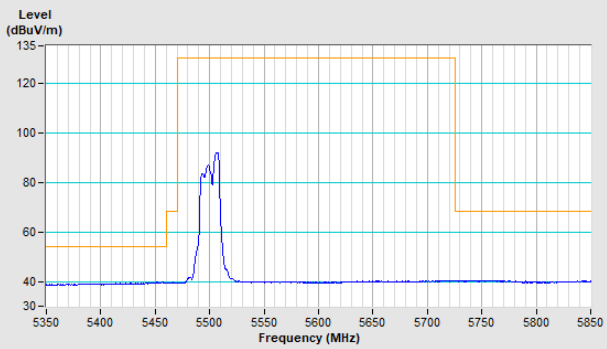


802.11a Channel 100

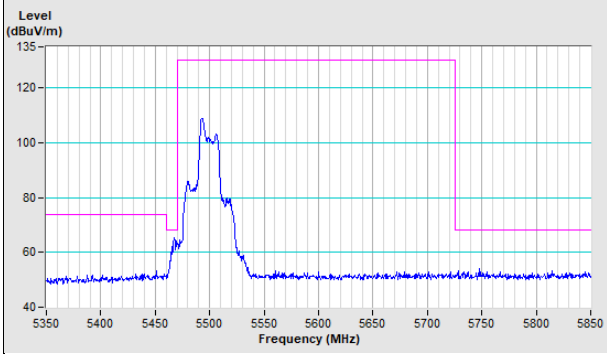
Horizontal (Peak)



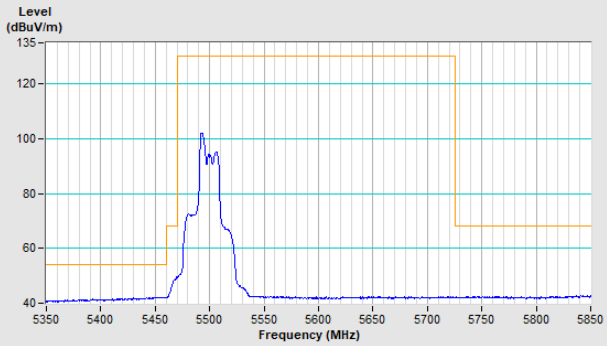
Horizontal (Average)



Vertical (Peak)

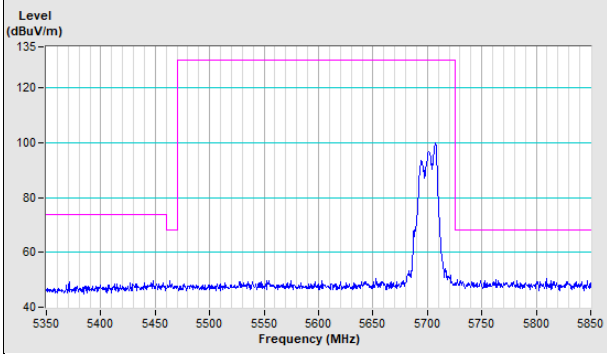


Vertical (Average)

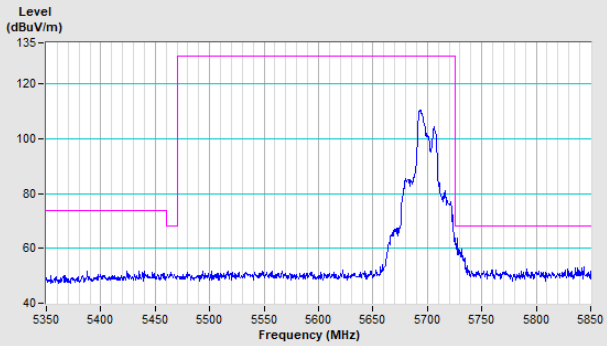


802.11a Channel 140

Horizontal (Peak)

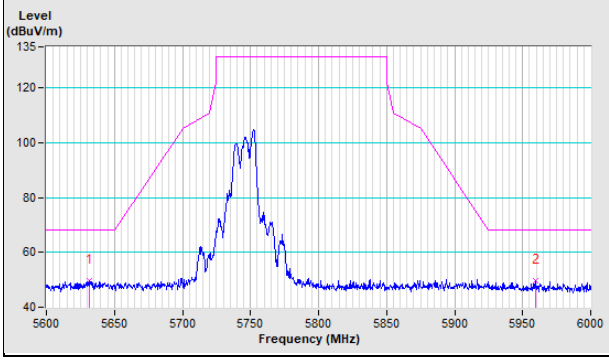


Vertical (Peak)

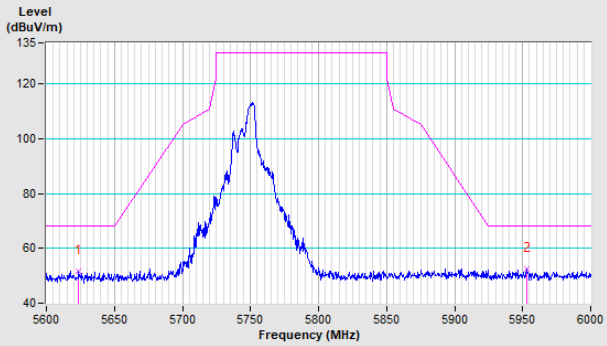


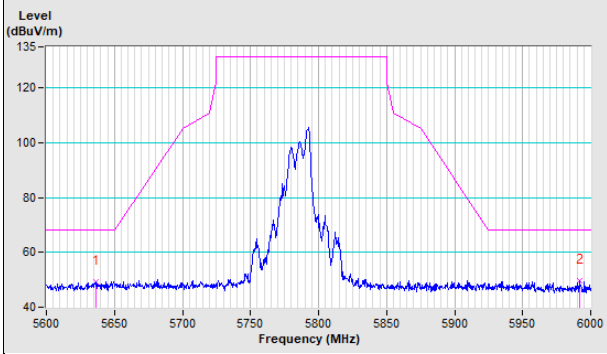
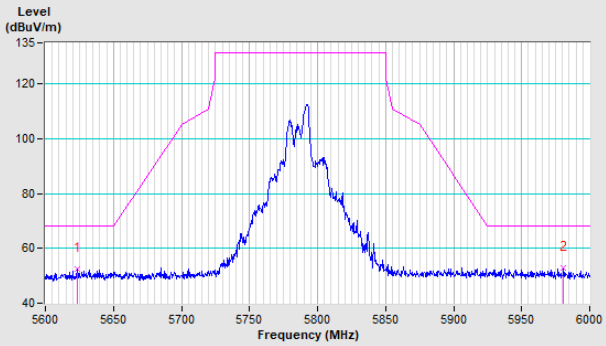
802.11a Channel 149

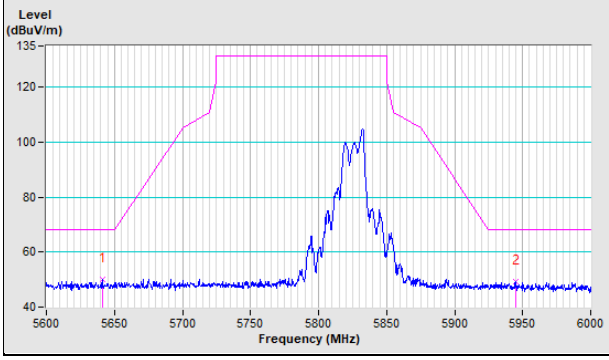
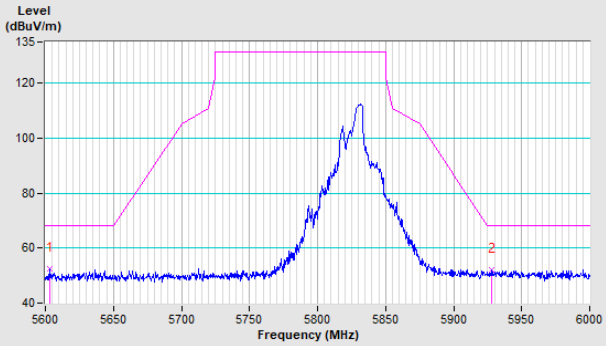
Horizontal (Peak)



Vertical (Peak)



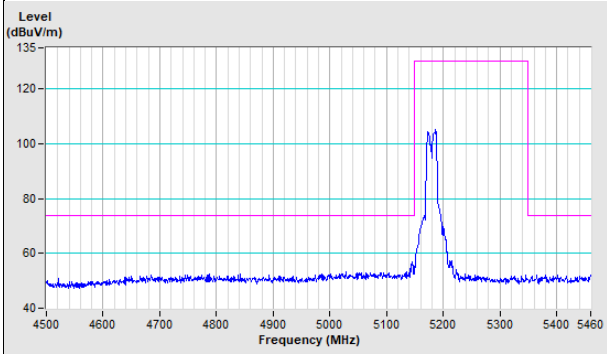
802.11a Channel 157	
Horizontal (Peak)	Vertical (Peak)
	

802.11a Channel 165	
Horizontal (Peak)	Vertical (Peak)
	

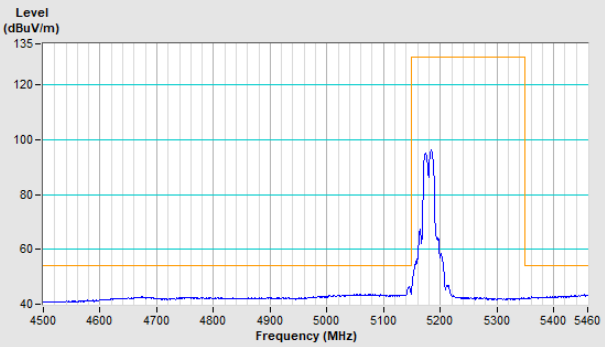
NSS 1

802.11ax (HE20) Channel 36

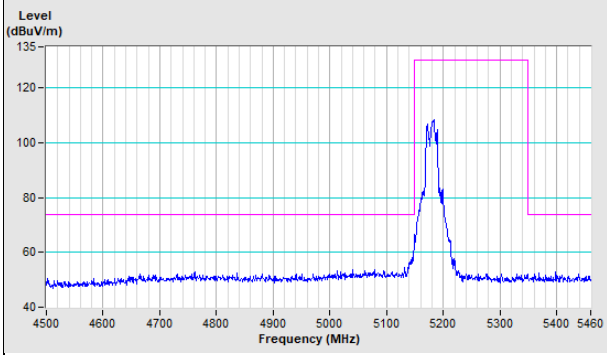
Horizontal (Peak)



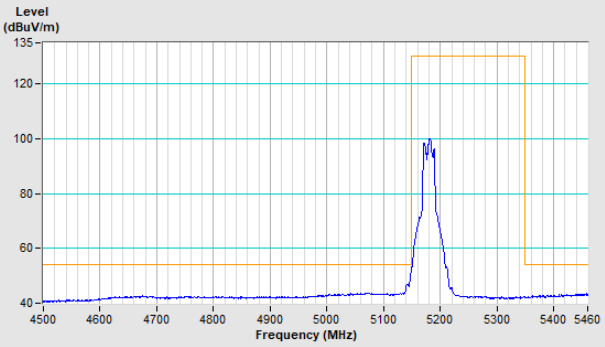
Horizontal (Average)



Vertical (Peak)

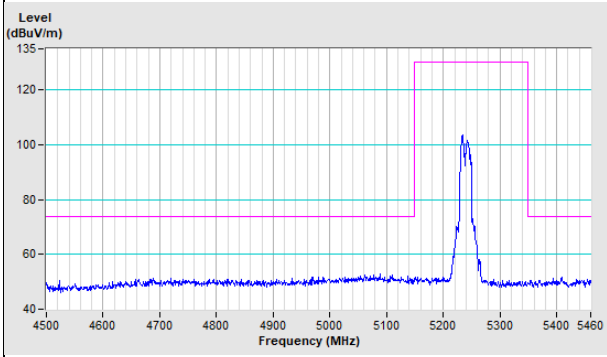


Vertical (Average)

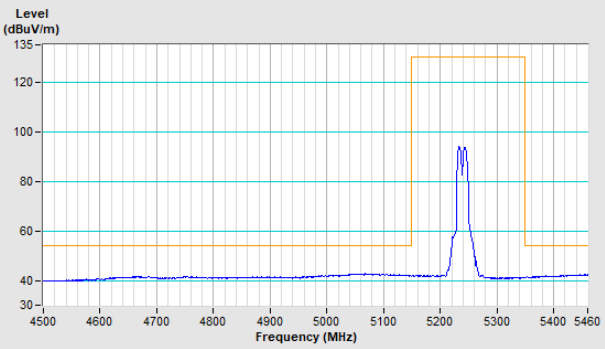


802.11ax (HE20) Channel 48

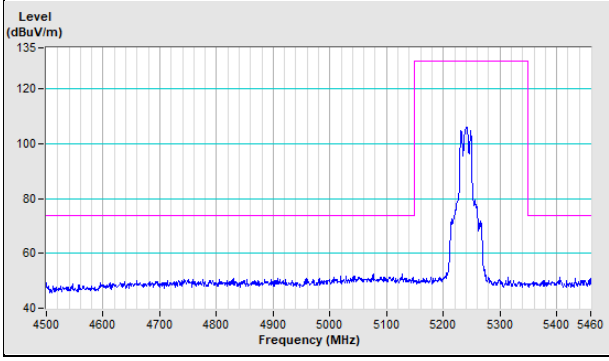
Horizontal (Peak)



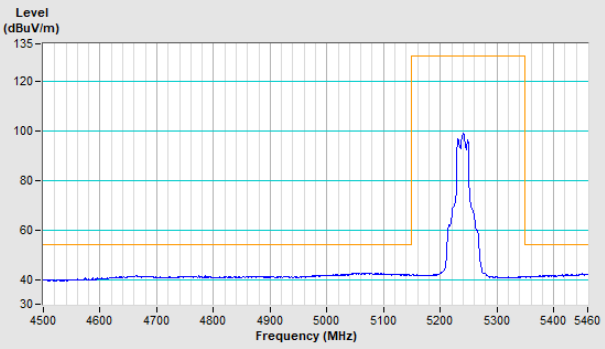
Horizontal (Average)



Vertical (Peak)

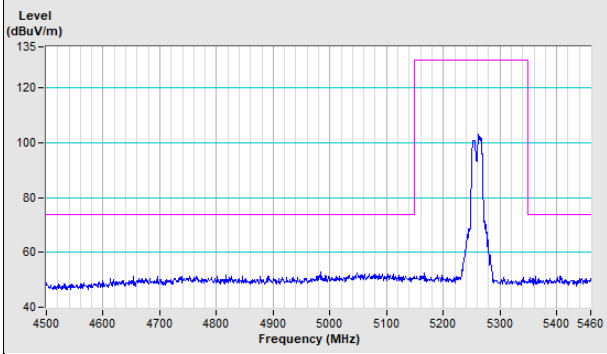


Vertical (Average)

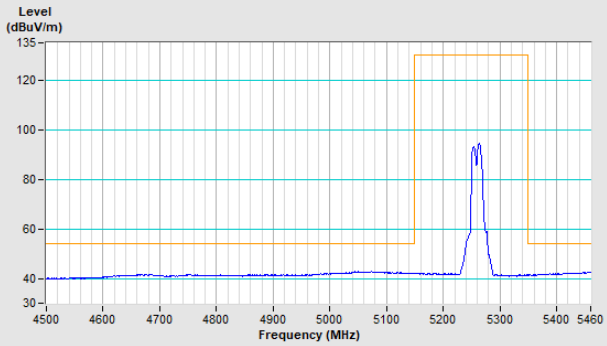


802.11ax (HE20) Channel 52

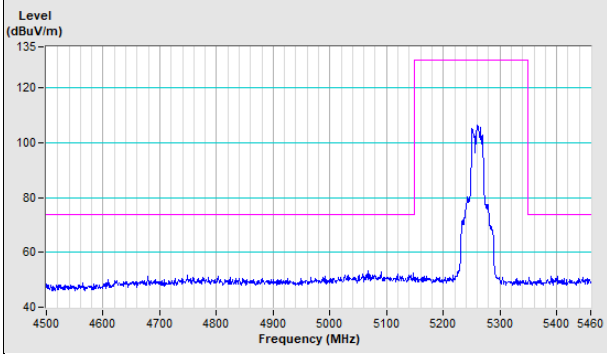
Horizontal (Peak)



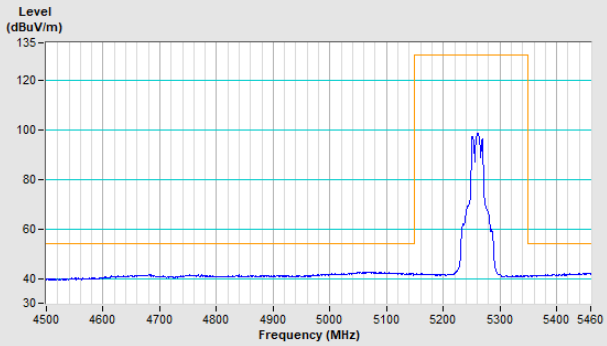
Horizontal (Average)



Vertical (Peak)

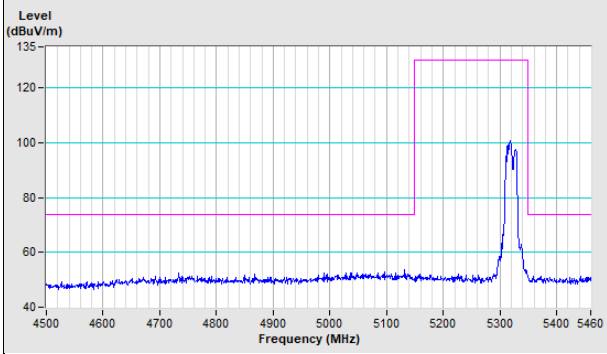


Vertical (Average)

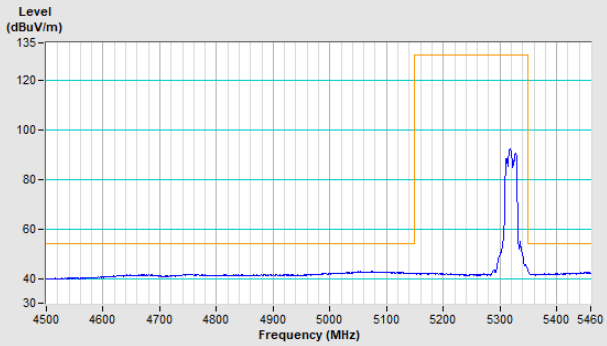


802.11ax (HE20) Channel 64

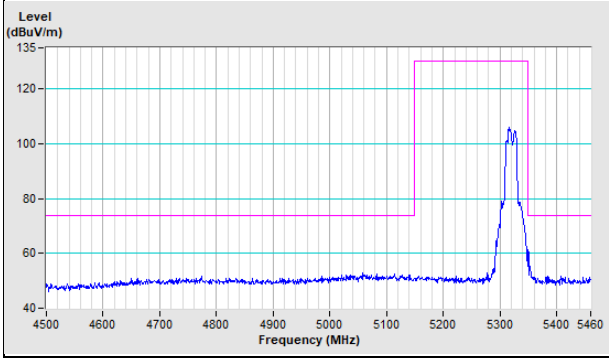
Horizontal (Peak)



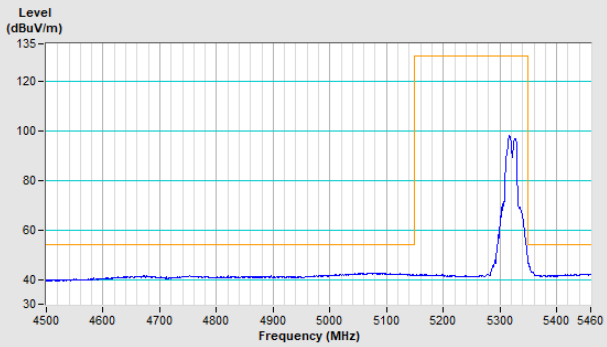
Horizontal (Average)



Vertical (Peak)

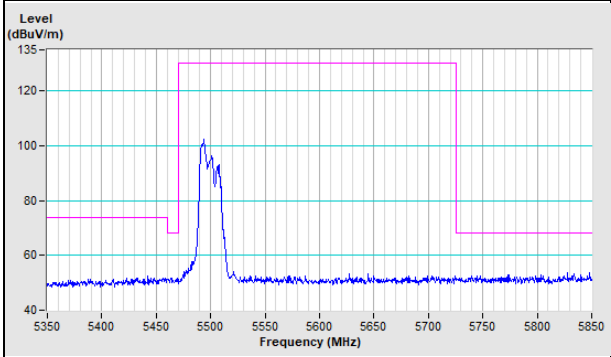


Vertical (Average)

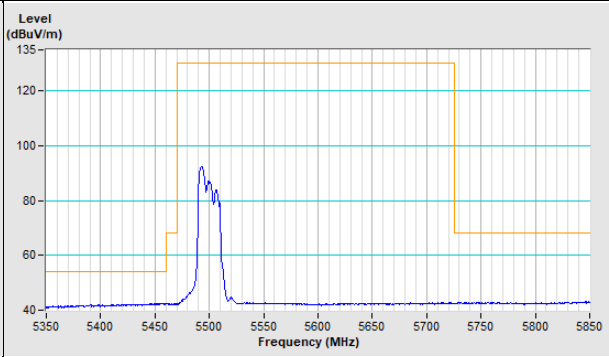


802.11ax (HE20) Channel 100

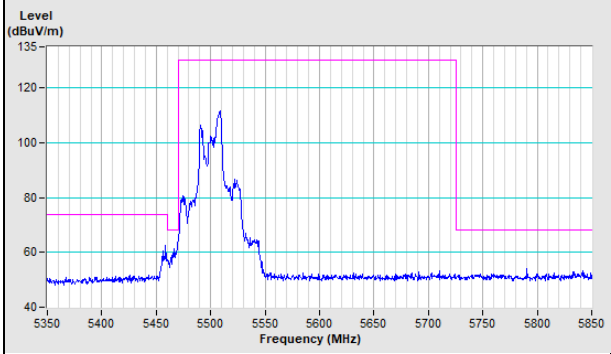
Horizontal (Peak)



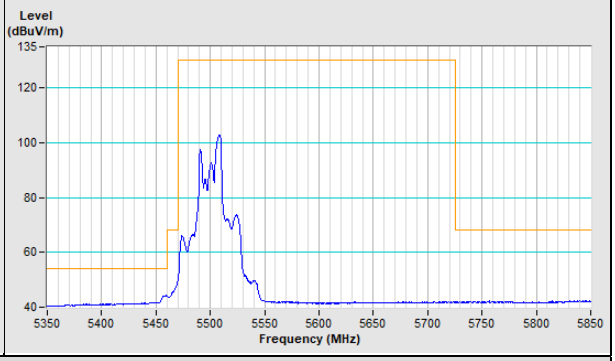
Horizontal (Average)



Vertical (Peak)

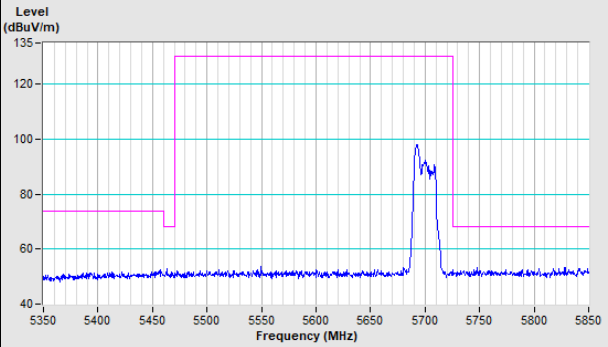


Vertical (Average)

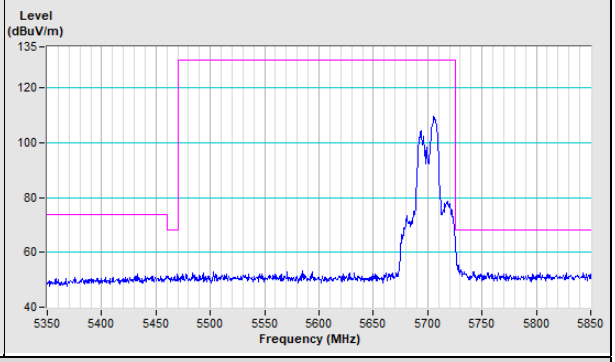


802.11ax (HE20) Channel 140

Horizontal (Peak)

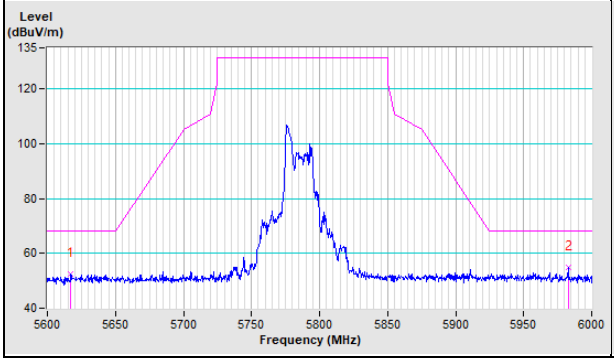


Vertical (Peak)

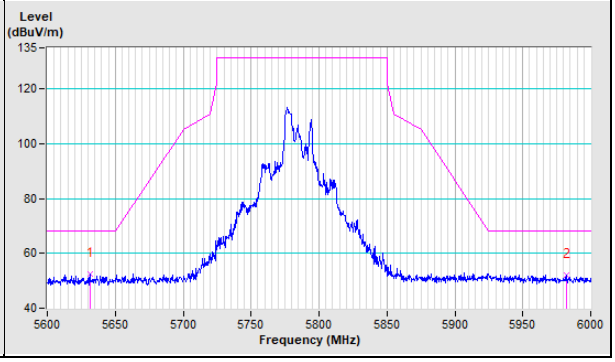


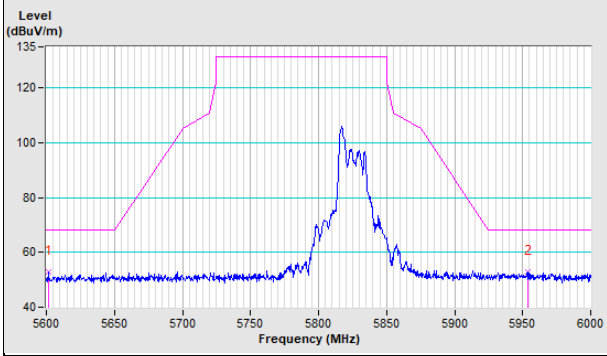
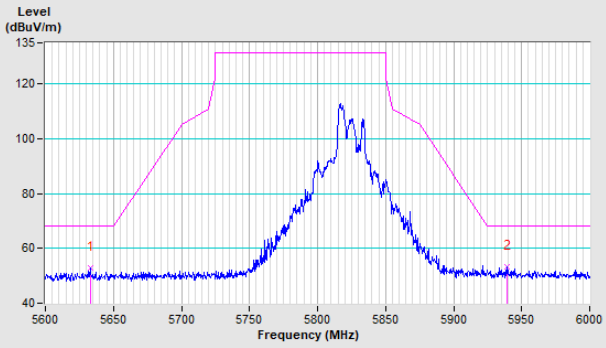
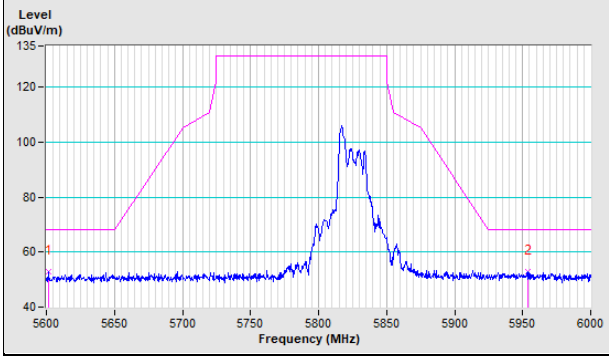
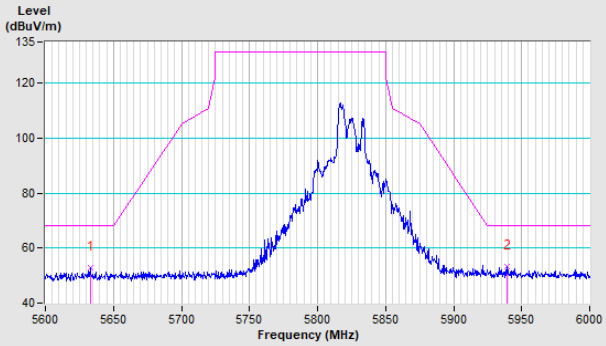
802.11ax (HE20) Channel 149

Horizontal (Peak)



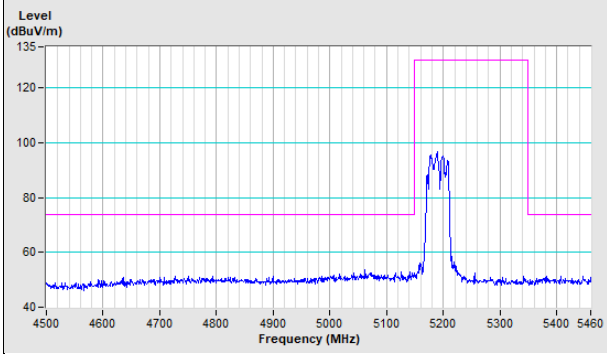
Vertical (Peak)



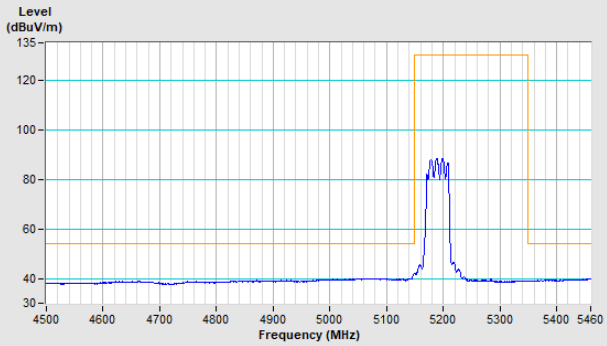
802.11ax (HE20) Channel 157	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE20) Channel 165	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE40) Channel 38

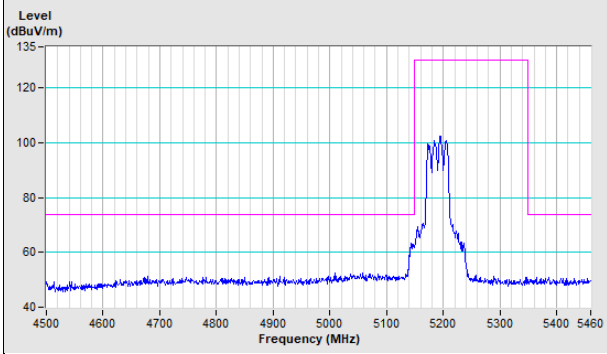
Horizontal (Peak)



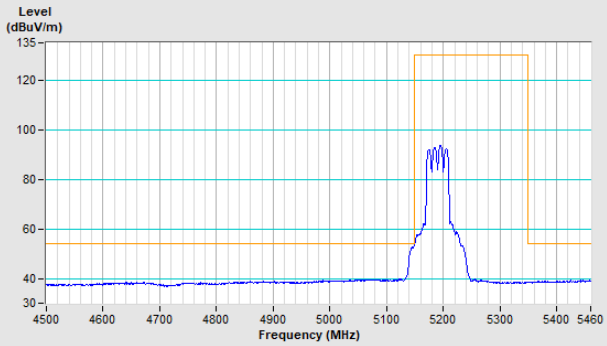
Horizontal (Average)



Vertical (Peak)

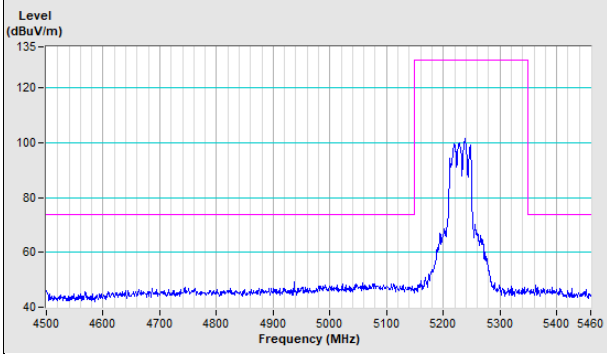


Vertical (Average)

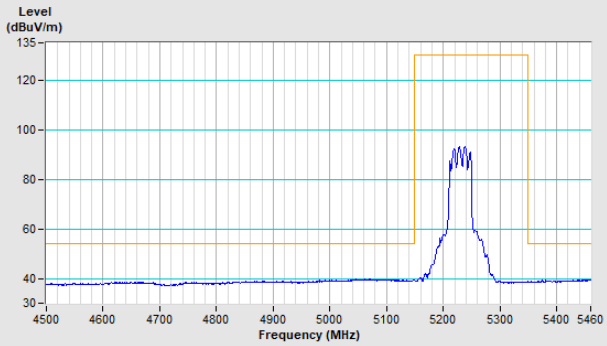


802.11ax (HE40) Channel 46

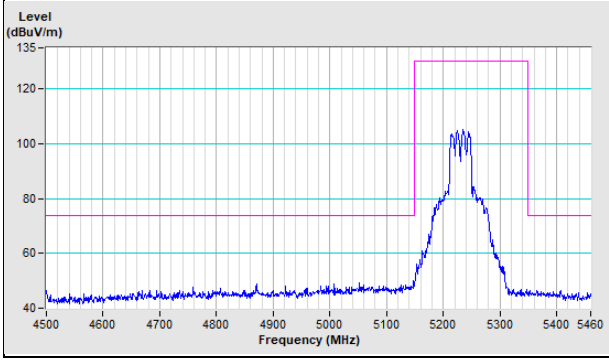
Horizontal (Peak)



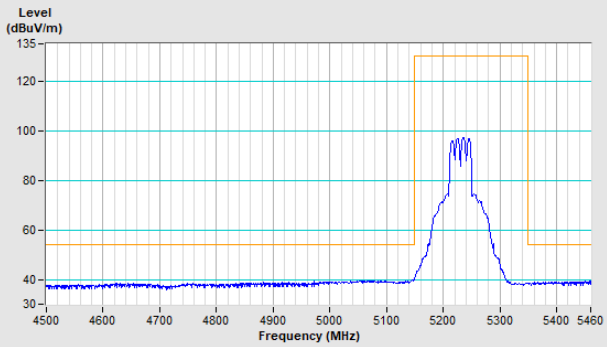
Horizontal (Average)



Vertical (Peak)

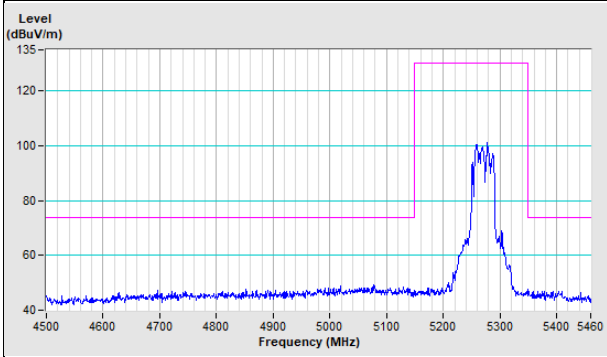


Vertical (Average)

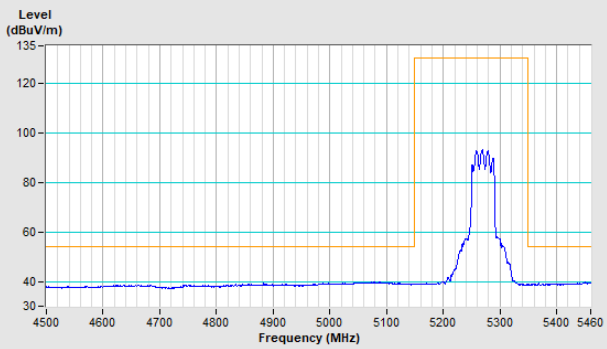


802.11ax (HE40) Channel 54

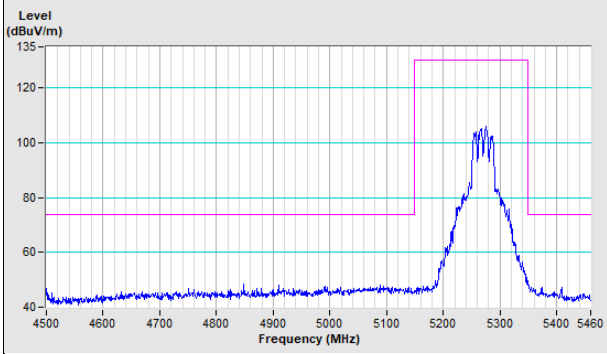
Horizontal (Peak)



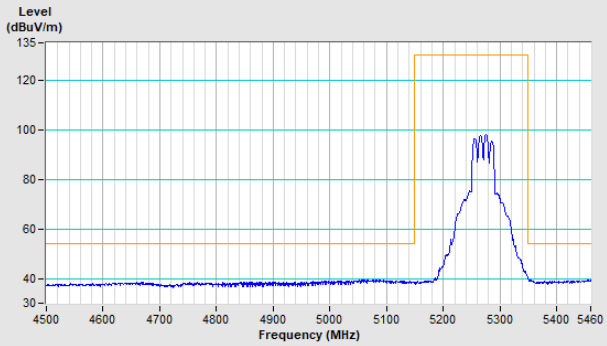
Horizontal (Average)



Vertical (Peak)

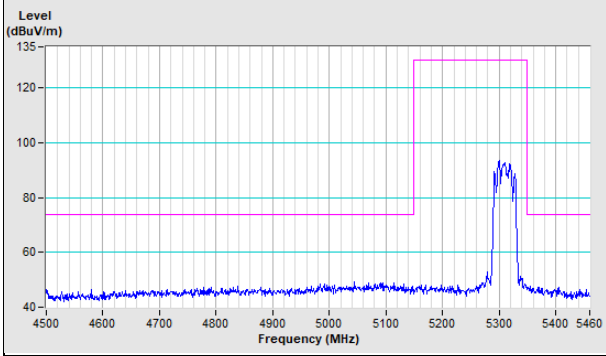


Vertical (Average)

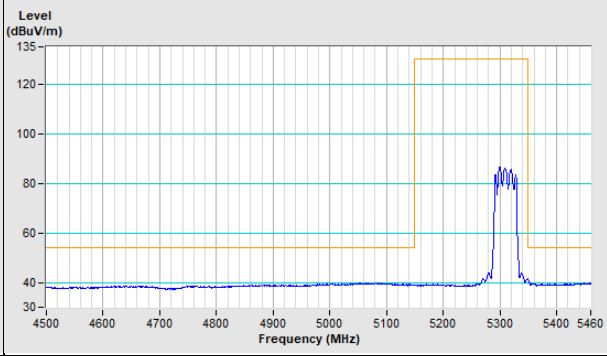


802.11ax (HE40) Channel 62

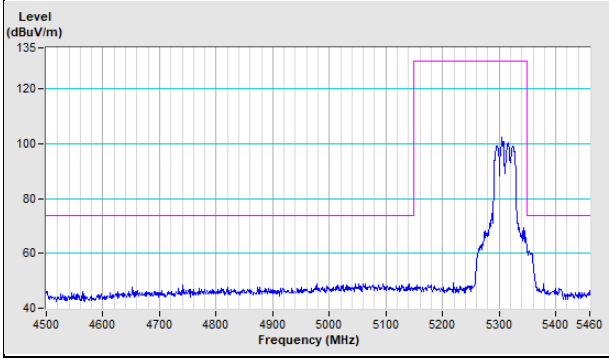
Horizontal (Peak)



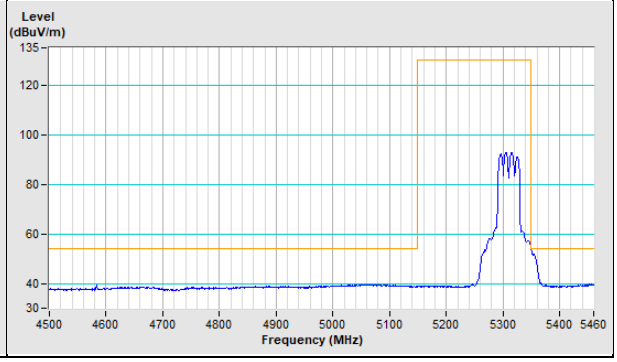
Horizontal (Average)



Vertical (Peak)

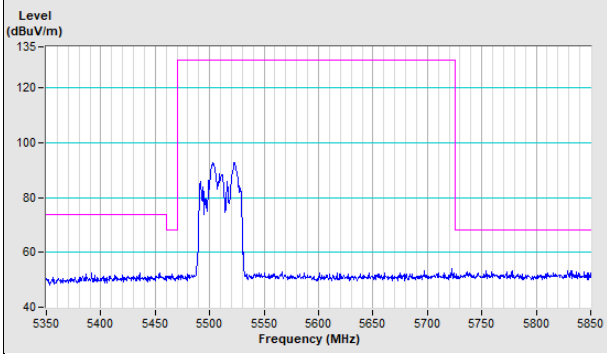


Vertical (Average)

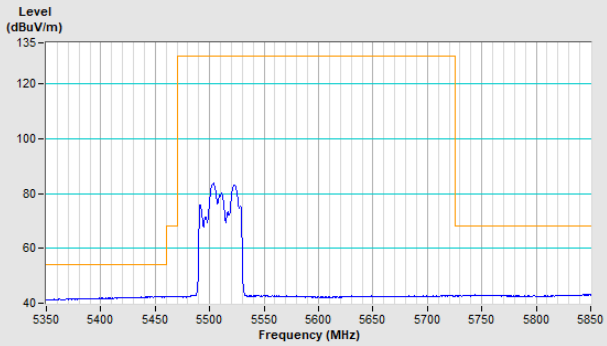


802.11ax (HE40) Channel 102

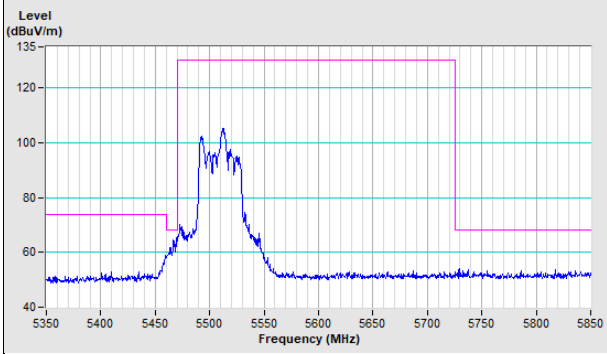
Horizontal (Peak)



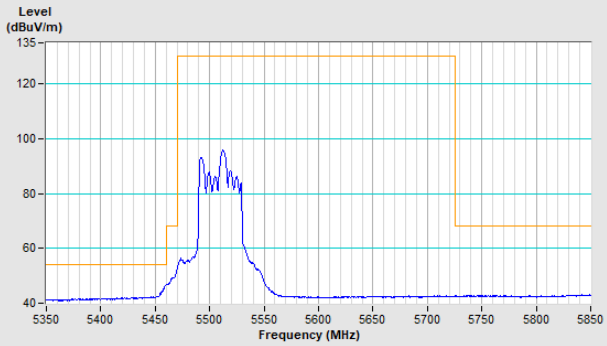
Horizontal (Average)



Vertical (Peak)

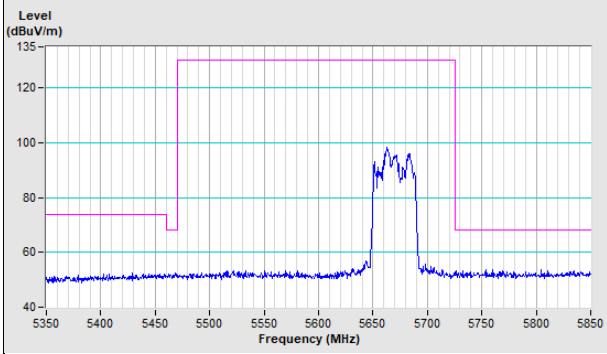


Vertical (Average)

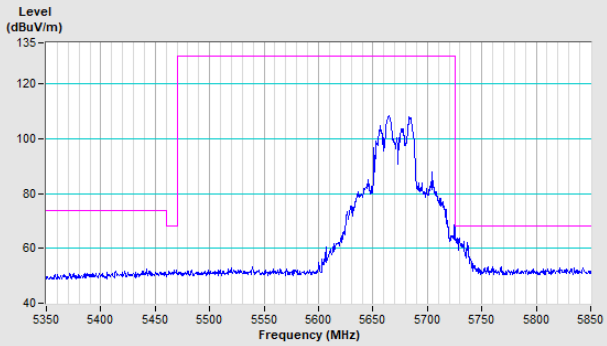


802.11ax (HE40) Channel 134

Horizontal (Peak)

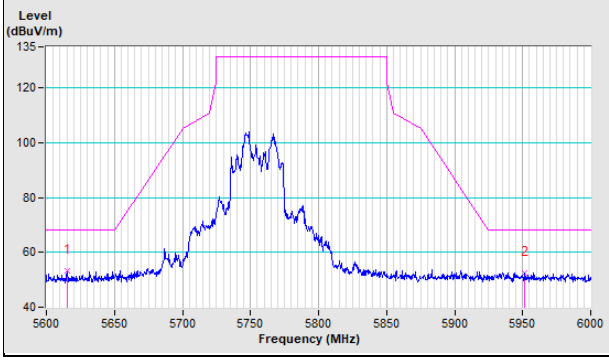


Vertical (Peak)

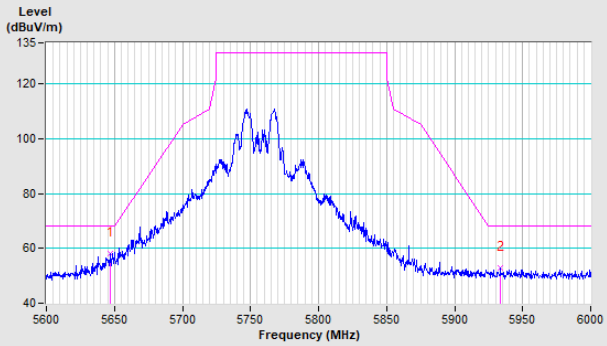


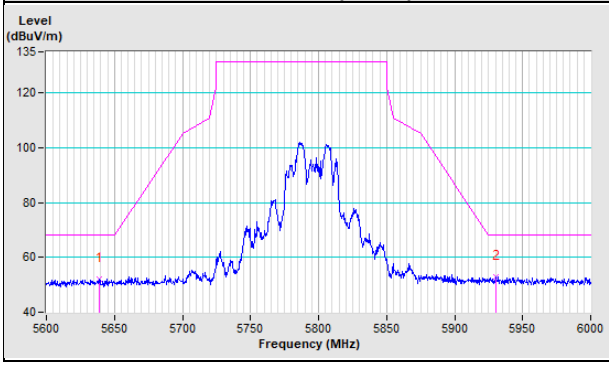
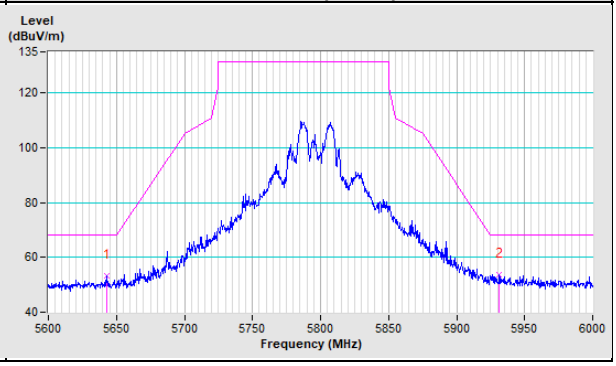
802.11ax (HE40) Channel 151

Horizontal (Peak)



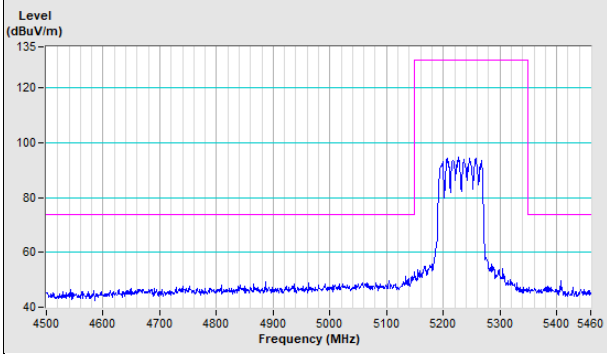
Vertical (Peak)



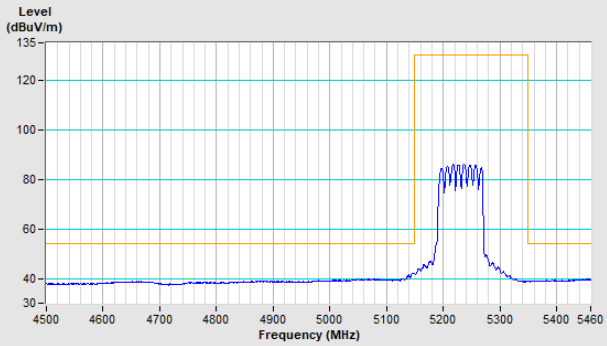
802.11ax (HE40) Channel 159	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE80) Channel 42

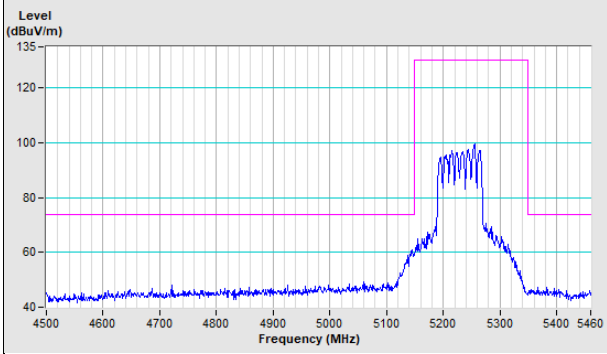
Horizontal (Peak)



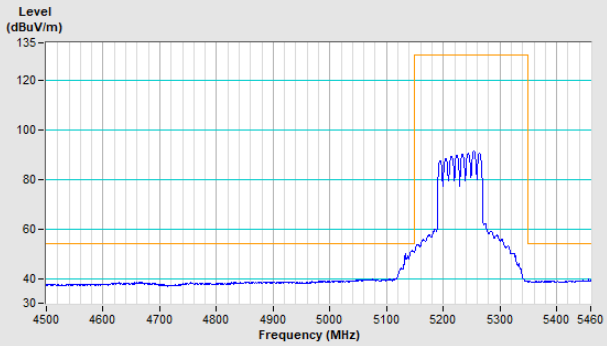
Horizontal (Average)



Vertical (Peak)

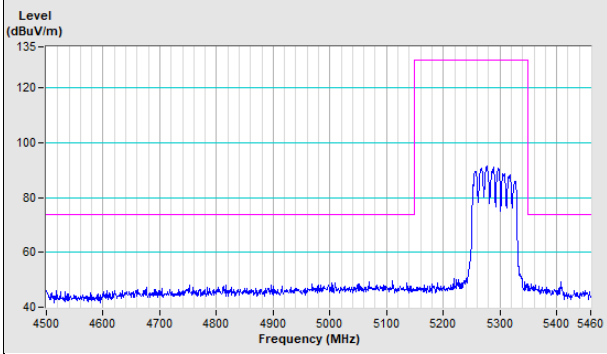


Vertical (Average)

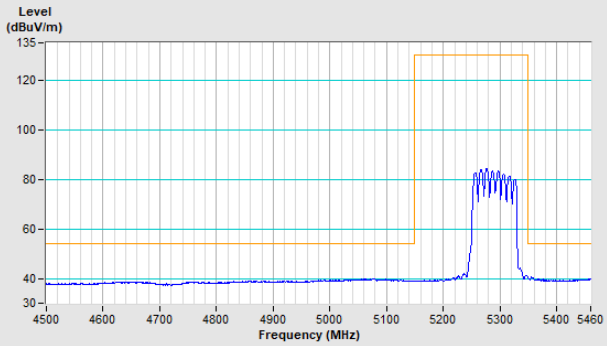


802.11ax (HE80) Channel 58

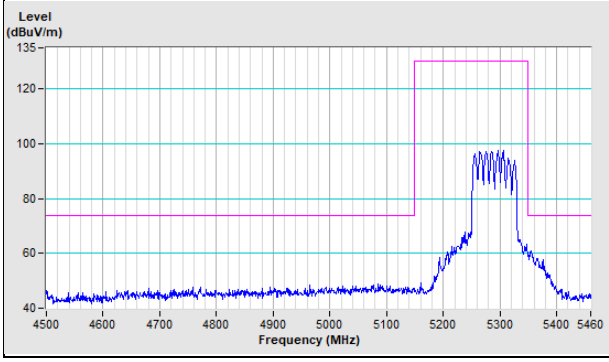
Horizontal (Peak)



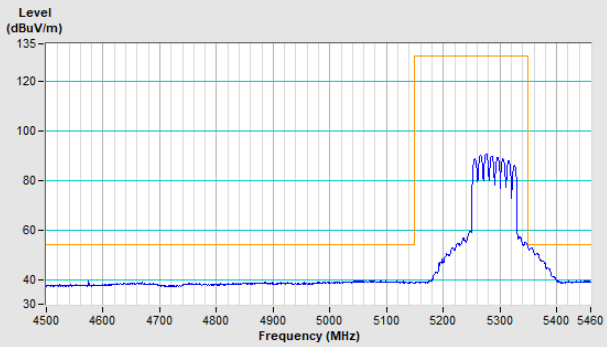
Horizontal (Average)



Vertical (Peak)

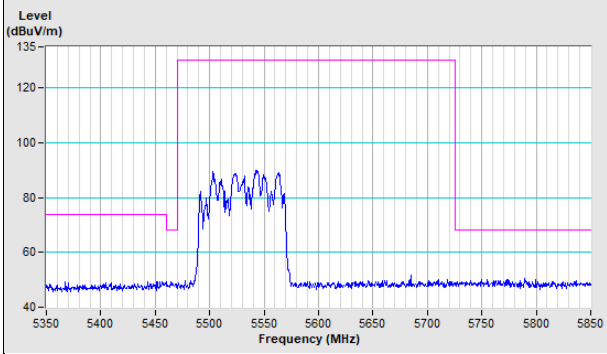


Vertical (Average)

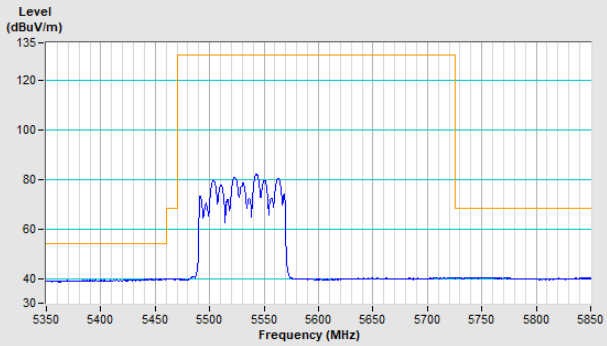


802.11ax (HE80) Channel 106

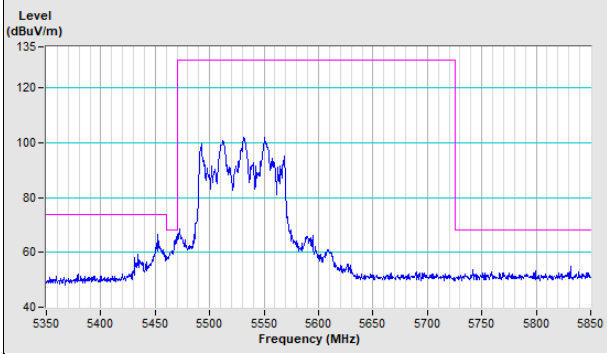
Horizontal (Peak)



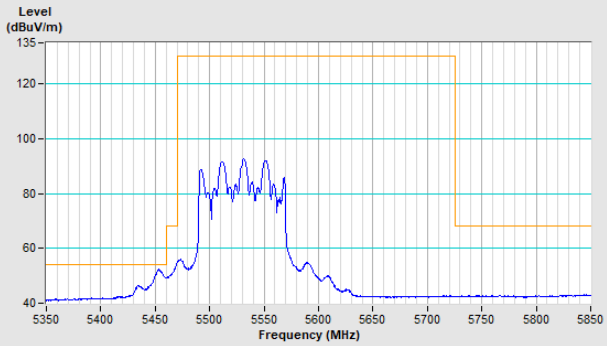
Horizontal (Average)



Vertical (Peak)

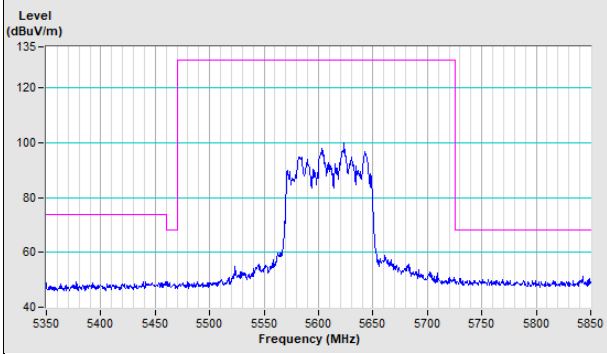


Vertical (Average)

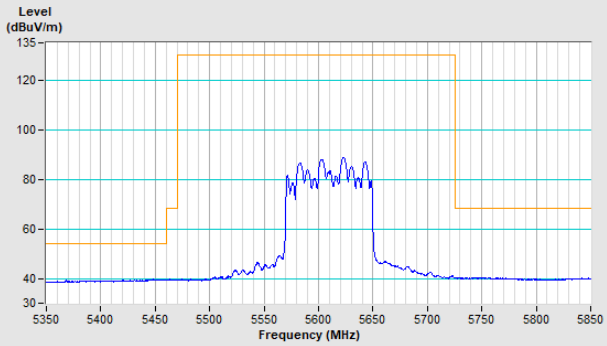


802.11ax (HE80) Channel 122

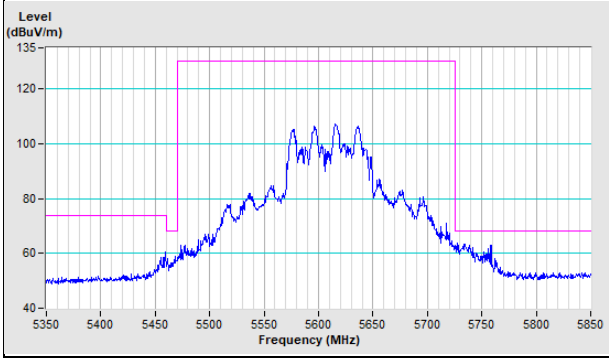
Horizontal (Peak)



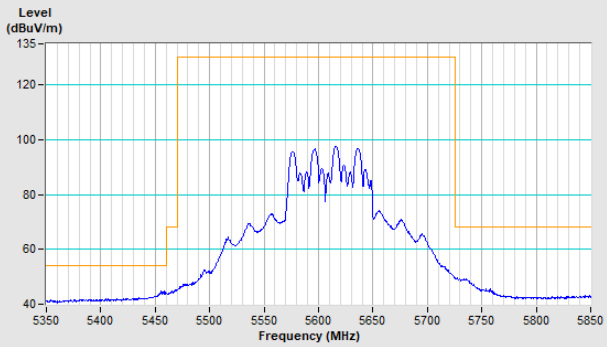
Horizontal (Average)

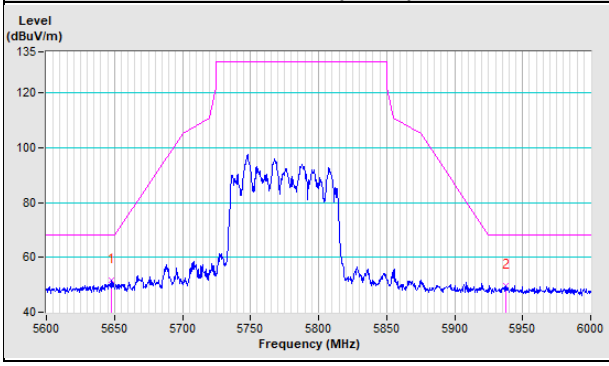
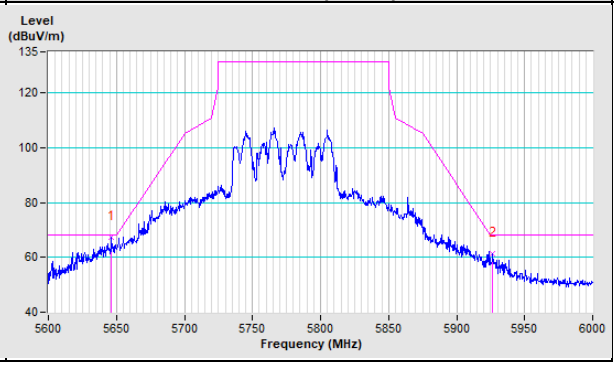


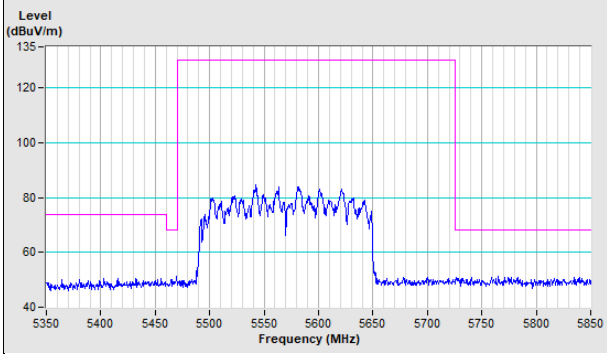
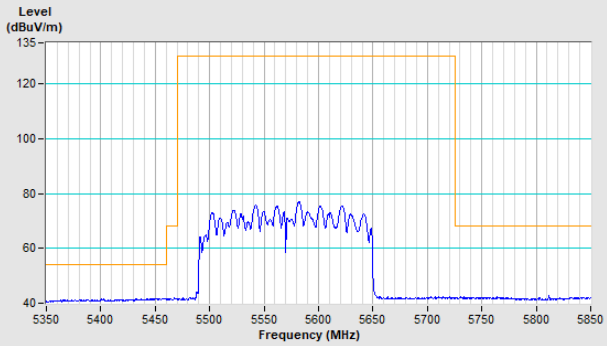
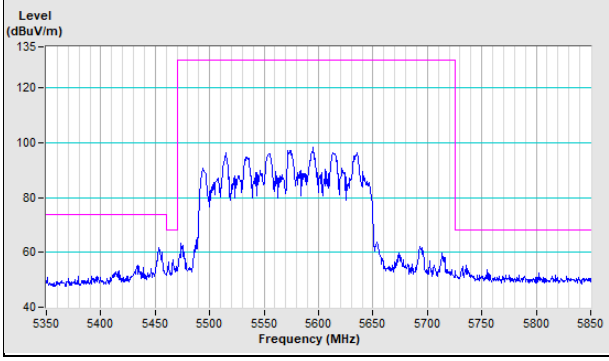
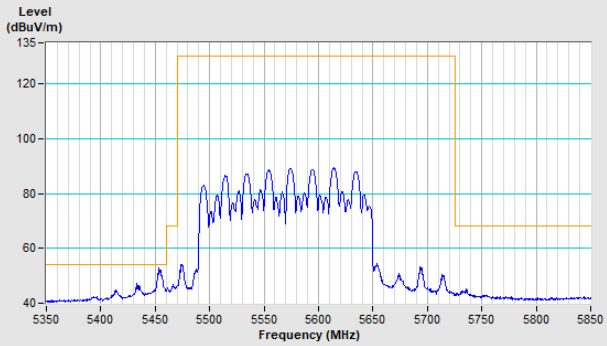
Vertical (Peak)



Vertical (Average)



802.11ax (HE80) Channel 155	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE160) Channel 114	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

NSS 2

RF Mode	TX 802.11ax (HE20)	Channel	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.4 PK	74.0	-19.6	2.54 H	197	71.1	-16.7
2	5150.00	45.0 AV	54.0	-9.0	2.54 H	197	61.7	-16.7
3	*5180.00	109.0 PK			2.54 H	197	72.7	36.3
4	*5180.00	97.3 AV			2.54 H	197	61.0	36.3
5	#10360.00	52.9 PK	68.2	-15.3	2.73 H	267	57.1	-4.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	2.00 V	252	83.4	-16.7
2	5150.00	53.5 AV	54.0	-0.5	2.00 V	252	70.2	-16.7
3	*5180.00	114.1 PK			2.00 V	252	77.8	36.3
4	*5180.00	102.8 AV			2.00 V	252	66.5	36.3
5	#10360.00	53.3 PK	68.2	-14.9	1.56 V	191	57.5	-4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.9 PK			2.77 H	197	74.6	36.3
2	*5200.00	100.1 AV			2.77 H	197	63.8	36.3
3	#10400.00	53.5 PK	68.2	-14.7	3.39 H	185	57.4	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	115.9 PK			2.58 V	203	79.6	36.3
2	*5200.00	103.9 AV			2.58 V	203	67.6	36.3
3	#10400.00	53.8 PK	68.2	-14.4	2.43 V	152	57.7	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	110.8 PK			2.72 H	198	74.5	36.3
2	*5240.00	100.5 AV			2.72 H	198	64.2	36.3
3	5350.00	49.9 PK	74.0	-24.1	2.72 H	198	66.4	-16.5
4	5350.00	39.9 AV	54.0	-14.1	2.72 H	198	56.4	-16.5
5	#10480.00	53.5 PK	68.2	-14.7	1.92 H	274	57.4	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	116.2 PK			2.47 V	175	79.9	36.3
2	*5240.00	104.8 AV			2.47 V	175	68.5	36.3
3	5350.00	50.0 PK	74.0	-24.0	2.47 V	175	66.5	-16.5
4	5350.00	40.1 AV	54.0	-13.9	2.47 V	175	56.6	-16.5
5	#10480.00	54.0 PK	68.2	-14.2	2.31 V	113	57.9	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.8 PK	74.0	-24.2	2.72 H	198	66.5	-16.7
2	5150.00	40.3 AV	54.0	-13.7	2.72 H	198	57.0	-16.7
3	*5260.00	107.1 PK			2.72 H	198	70.9	36.2
4	*5260.00	96.5 AV			2.72 H	198	60.3	36.2
5	#10520.00	53.0 PK	68.2	-15.2	2.27 H	206	56.9	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	49.9 PK	74.0	-24.1	2.47 V	172	66.6	-16.7
2	5150.00	40.4 AV	54.0	-13.6	2.47 V	172	57.1	-16.7
3	*5260.00	111.9 PK			2.47 V	172	75.7	36.2
4	*5260.00	100.5 AV			2.47 V	172	64.3	36.2
5	#10520.00	53.8 PK	68.2	-14.4	1.83 V	302	57.7	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	106.5 PK			2.68 H	200	70.4	36.1
2	*5300.00	94.9 AV			2.68 H	200	58.8	36.1
3	10600.00	52.8 PK	74.0	-21.2	2.57 H	354	56.5	-3.7
4	10600.00	44.0 AV	54.0	-10.0	2.57 H	354	47.7	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.9 PK			2.55 V	174	74.8	36.1
2	*5300.00	99.2 AV			2.55 V	174	63.1	36.1
3	10600.00	53.4 PK	74.0	-20.6	1.94 V	28	57.1	-3.7
4	10600.00	44.4 AV	54.0	-9.6	1.94 V	28	48.1	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.9 PK			2.68 H	201	69.8	36.1
2	*5320.00	94.3 AV			2.68 H	201	58.2	36.1
3	5350.00	50.4 PK	74.0	-23.6	2.68 H	201	66.9	-16.5
4	5350.00	40.6 AV	54.0	-13.4	2.68 H	201	57.1	-16.5
5	10640.00	53.1 PK	74.0	-20.9	3.05 H	125	56.7	-3.6
6	10640.00	44.0 AV	54.0	-10.0	3.05 H	125	47.6	-3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.2 PK			2.55 V	174	74.1	36.1
2	*5320.00	98.3 AV			2.55 V	174	62.2	36.1
3	5350.00	53.9 PK	74.0	-20.1	2.55 V	174	70.4	-16.5
4	5350.00	42.9 AV	54.0	-11.1	2.55 V	174	59.4	-16.5
5	10640.00	53.7 PK	74.0	-20.3	1.12 V	176	57.3	-3.6
6	10640.00	45.3 AV	54.0	-8.7	1.12 V	176	48.9	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.8 PK	74.0	-22.2	2.42 H	232	67.9	-16.1
2	5460.00	41.0 AV	54.0	-13.0	2.42 H	232	57.1	-16.1
3	#5470.00	51.9 PK	68.2	-16.3	2.42 H	232	68.0	-16.1
4	*5500.00	102.1 PK			2.42 H	232	65.6	36.5
5	*5500.00	92.0 AV			2.42 H	232	55.5	36.5
6	11000.00	53.7 PK	74.0	-20.3	2.66 H	320	57.4	-3.7
7	11000.00	43.9 AV	54.0	-10.1	2.66 H	320	47.6	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.8 PK	74.0	-13.2	2.56 V	291	76.9	-16.1
2	5460.00	44.8 AV	54.0	-9.2	2.56 V	291	60.9	-16.1
3	#5470.00	67.6 PK	68.2	-0.6	2.56 V	291	83.7	-16.1
4	*5500.00	115.6 PK			2.56 V	291	79.1	36.5
5	*5500.00	105.4 AV			2.56 V	291	68.9	36.5
6	11000.00	53.9 PK	74.0	-20.1	1.47 V	208	57.6	-3.7
7	11000.00	44.3 AV	54.0	-9.7	1.47 V	208	48.0	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.0 PK			2.35 H	253	69.3	36.7
2	*5580.00	96.2 AV			2.35 H	253	59.5	36.7
3	11160.00	52.8 PK	74.0	-21.2	2.67 H	290	56.3	-3.5
4	11160.00	44.4 AV	54.0	-9.6	2.67 H	290	47.9	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.3 PK			2.36 V	261	82.6	36.7
2	*5580.00	109.6 AV			2.36 V	261	72.9	36.7
3	11160.00	53.9 PK	74.0	-20.1	1.91 V	343	57.4	-3.5
4	11160.00	45.1 AV	54.0	-8.9	1.91 V	343	48.6	-3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	99.4 PK			2.61 H	261	62.3	37.1
2	*5700.00	89.1 AV			2.61 H	261	52.0	37.1
3	#5725.00	52.6 PK	68.2	-15.6	2.61 H	261	68.3	-15.7
4	11400.00	54.3 PK	74.0	-19.7	3.27 H	261	56.8	-2.5
5	11400.00	45.0 AV	54.0	-9.0	3.27 H	261	47.5	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.4 PK			2.33 V	273	75.3	37.1
2	*5700.00	102.5 AV			2.33 V	273	65.4	37.1
3	#5725.00	67.4 PK	68.2	-0.8	2.33 V	273	83.1	-15.7
4	11400.00	54.7 PK	74.0	-19.3	1.58 V	185	57.2	-2.5
5	11400.00	45.4 AV	54.0	-8.6	1.58 V	185	47.9	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.20	53.5 PK	68.2	-14.7	2.76 H	43	69.5	-16.0
2	*5745.00	113.2 PK			2.76 H	43	76.2	37.0
3	*5745.00	102.1 AV			2.76 H	43	65.1	37.0
4	#5929.20	53.8 PK	68.2	-14.4	2.76 H	43	69.2	-15.4
5	11490.00	54.2 PK	74.0	-19.8	1.88 H	173	56.7	-2.5
6	11490.00	44.4 AV	54.0	-9.6	1.88 H	173	46.9	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	54.4 PK	68.2	-13.8	1.90 V	257	70.2	-15.8
2	*5745.00	123.5 PK			1.90 V	257	86.5	37.0
3	*5745.00	113.0 AV			1.90 V	257	76.0	37.0
4	#5941.60	53.7 PK	68.2	-14.5	1.90 V	257	69.1	-15.4
5	11490.00	54.6 PK	74.0	-19.4	1.31 V	174	57.1	-2.5
6	11490.00	45.6 AV	54.0	-8.4	1.31 V	174	48.1	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.20	53.9 PK	68.2	-14.3	2.41 H	42	69.8	-15.9
2	*5785.00	111.5 PK			2.41 H	42	74.5	37.0
3	*5785.00	100.9 AV			2.41 H	42	63.9	37.0
4	#5933.20	53.5 PK	68.2	-14.7	2.41 H	42	68.9	-15.4
5	11570.00	53.9 PK	74.0	-20.1	1.57 H	254	56.7	-2.8
6	11570.00	44.2 AV	54.0	-9.8	1.57 H	254	47.0	-2.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.20	52.7 PK	68.2	-15.5	1.95 V	259	68.6	-15.9
2	*5785.00	123.4 PK			1.95 V	259	86.4	37.0
3	*5785.00	112.9 AV			1.95 V	259	75.9	37.0
4	#5937.20	54.0 PK	68.2	-14.2	1.95 V	259	69.4	-15.4
5	11570.00	54.5 PK	74.0	-19.5	2.30 V	219	57.3	-2.8
6	11570.00	44.9 AV	54.0	-9.1	2.30 V	219	47.7	-2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	54.1 PK	68.2	-14.1	2.60 H	43	69.9	-15.8
2	*5825.00	109.8 PK			2.60 H	43	72.6	37.2
3	*5825.00	100.5 AV			2.60 H	43	63.3	37.2
4	#5927.20	54.5 PK	68.2	-13.7	2.60 H	43	69.9	-15.4
5	11650.00	52.4 PK	74.0	-21.6	3.33 H	234	55.6	-3.2
6	11650.00	43.6 AV	54.0	-10.4	3.33 H	234	46.8	-3.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5603.60	53.0 PK	68.2	-15.2	1.96 V	257	69.1	-16.1
2	*5825.00	122.5 PK			1.96 V	257	85.3	37.2
3	*5825.00	112.1 AV			1.96 V	257	74.9	37.2
4	#5932.00	53.6 PK	68.2	-14.6	1.96 V	257	69.0	-15.4
5	11650.00	54.1 PK	74.0	-19.9	2.20 V	7	57.3	-3.2
6	11650.00	44.1 AV	54.0	-9.9	2.20 V	7	47.3	-3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.3 PK	74.0	-19.7	2.80 H	197	71.0	-16.7
2	5150.00	44.7 AV	54.0	-9.3	2.80 H	197	61.4	-16.7
3	*5190.00	100.5 PK			2.80 H	197	64.2	36.3
4	*5190.00	90.6 AV			2.80 H	197	54.3	36.3
5	#10380.00	53.2 PK	68.2	-15.0	2.00 H	218	57.3	-4.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.9 PK	74.0	-10.1	2.52 V	171	80.6	-16.7
2	5150.00	53.4 AV	54.0	-0.6	2.52 V	171	70.1	-16.7
3	*5190.00	104.5 PK			2.52 V	171	68.2	36.3
4	*5190.00	94.2 AV			2.52 V	171	57.9	36.3
5	#10380.00	53.8 PK	68.2	-14.4	1.80 V	249	57.9	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	109.8 PK			2.51 H	203	73.5	36.3
2	*5230.00	99.8 AV			2.51 H	203	63.5	36.3
3	5350.00	50.6 PK	74.0	-23.4	2.51 H	203	67.1	-16.5
4	5350.00	40.7 AV	54.0	-13.3	2.51 H	203	57.2	-16.5
5	#10460.00	52.9 PK	68.2	-15.3	2.13 H	341	56.8	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	115.7 PK			2.42 V	175	79.4	36.3
2	*5230.00	104.8 AV			2.42 V	175	68.5	36.3
3	5350.00	50.7 PK	74.0	-23.3	2.42 V	175	67.2	-16.5
4	5350.00	40.9 AV	54.0	-13.1	2.42 V	175	57.4	-16.5
5	#10460.00	53.4 PK	68.2	-14.8	1.15 V	219	57.3	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.7 PK	74.0	-23.3	2.46 H	204	67.4	-16.7
2	5150.00	40.4 AV	54.0	-13.6	2.46 H	204	57.1	-16.7
3	*5270.00	105.3 PK			2.46 H	204	69.1	36.2
4	*5270.00	95.6 AV			2.46 H	204	59.4	36.2
5	#10540.00	52.6 PK	68.2	-15.6	3.15 H	229	56.5	-3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.8 PK	74.0	-23.2	2.52 V	178	67.5	-16.7
2	5150.00	40.5 AV	54.0	-13.5	2.52 V	178	57.2	-16.7
3	*5270.00	110.7 PK			2.52 V	178	74.5	36.2
4	*5270.00	99.9 AV			2.52 V	178	63.7	36.2
5	#10540.00	53.3 PK	68.2	-14.9	2.53 V	47	57.2	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	99.0 PK			2.59 H	203	62.9	36.1
2	*5310.00	89.2 AV			2.59 H	203	53.1	36.1
3	5350.00	52.7 PK	74.0	-21.3	2.59 H	203	69.2	-16.5
4	5350.00	42.4 AV	54.0	-11.6	2.59 H	203	58.9	-16.5
5	10620.00	53.4 PK	74.0	-20.6	3.24 H	180	57.1	-3.7
6	10620.00	44.5 AV	54.0	-9.5	3.24 H	180	48.2	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	103.7 PK			2.33 V	172	67.6	36.1
2	*5310.00	93.7 AV			2.33 V	172	57.6	36.1
3	5350.00	61.8 PK	74.0	-12.2	2.33 V	172	78.3	-16.5
4	5350.00	52.7 AV	54.0	-1.3	2.33 V	172	69.2	-16.5
5	10620.00	53.9 PK	74.0	-20.1	1.82 V	348	57.6	-3.7
6	10620.00	44.4 AV	54.0	-9.6	1.82 V	348	48.1	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.5 PK	74.0	-22.5	2.56 H	225	67.6	-16.1
2	5460.00	41.1 AV	54.0	-12.9	2.56 H	225	57.2	-16.1
3	#5470.00	51.6 PK	68.2	-16.6	2.56 H	225	67.7	-16.1
4	*5510.00	94.1 PK			2.56 H	225	57.6	36.5
5	*5510.00	85.2 AV			2.56 H	225	48.7	36.5
6	11020.00	53.0 PK	74.0	-21.0	2.70 H	304	56.7	-3.7
7	11020.00	43.8 AV	54.0	-10.2	2.70 H	304	47.5	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	2.40 V	279	78.0	-16.1
2	5460.00	47.0 AV	54.0	-7.0	2.40 V	279	63.1	-16.1
3	#5470.00	67.3 PK	68.2	-0.9	2.40 V	279	83.4	-16.1
4	*5510.00	107.1 PK			2.40 V	279	70.6	36.5
5	*5510.00	97.7 AV			2.40 V	279	61.2	36.5
6	11020.00	53.6 PK	74.0	-20.4	2.43 V	232	57.3	-3.7
7	11020.00	44.0 AV	54.0	-10.0	2.43 V	232	47.7	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	103.3 PK			2.31 H	227	66.6	36.7
2	*5550.00	93.5 AV			2.31 H	227	56.8	36.7
3	11100.00	52.1 PK	74.0	-21.9	2.18 H	101	55.6	-3.5
4	11100.00	43.8 AV	54.0	-10.2	2.18 H	101	47.3	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	115.9 PK			2.48 V	292	79.2	36.7
2	*5550.00	106.5 AV			2.48 V	292	69.8	36.7
3	11100.00	53.3 PK	74.0	-20.7	2.48 V	292	56.8	-3.5
4	11100.00	44.0 AV	54.0	-10.0	2.48 V	292	47.5	-3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	101.5 PK			2.24 H	49	64.5	37.0
2	*5670.00	92.4 AV			2.24 H	49	55.4	37.0
3	#5725.00	52.4 PK	68.2	-15.8	2.24 H	49	68.1	-15.7
4	11340.00	53.5 PK	74.0	-20.5	3.69 H	250	56.4	-2.9
5	11340.00	44.6 AV	54.0	-9.4	3.69 H	250	47.5	-2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	113.8 PK			2.25 V	137	76.8	37.0
2	*5670.00	104.6 AV			2.25 V	137	67.6	37.0
3	#5725.00	67.6 PK	68.2	-0.6	2.25 V	137	83.3	-15.7
4	11340.00	54.0 PK	74.0	-20.0	1.86 V	137	56.9	-2.9
5	11340.00	44.9 AV	54.0	-9.1	1.86 V	137	47.8	-2.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.80	53.4 PK	68.2	-14.8	2.64 H	44	69.5	-16.1
2	*5755.00	109.7 PK			2.64 H	44	72.7	37.0
3	*5755.00	100.0 AV			2.64 H	44	63.0	37.0
4	#5940.40	54.5 PK	68.2	-13.7	2.64 H	44	69.9	-15.4
5	11510.00	54.9 PK	74.0	-19.1	3.74 H	168	57.6	-2.7
6	11510.00	44.6 AV	54.0	-9.4	3.74 H	168	47.3	-2.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	62.3 PK	68.2	-5.9	1.90 V	263	78.1	-15.8
2	*5755.00	120.4 PK			1.90 V	263	83.4	37.0
3	*5755.00	110.3 AV			1.90 V	263	73.3	37.0
4	#5936.80	54.0 PK	68.2	-14.2	1.90 V	263	69.4	-15.4
5	11510.00	55.8 PK	74.0	-18.2	2.36 V	197	58.5	-2.7
6	11510.00	45.7 AV	54.0	-8.3	2.36 V	197	48.4	-2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.80	53.4 PK	68.2	-14.8	2.64 H	44	69.5	-16.1
2	*5795.00	108.1 PK			2.61 H	43	71.1	37.0
3	*5795.00	99.2 AV			2.61 H	43	62.2	37.0
4	#5940.40	54.5 PK	68.2	-13.7	2.64 H	44	69.9	-15.4
5	11590.00	54.1 PK	74.0	-19.9	2.68 H	318	57.1	-3.0
6	11590.00	44.0 AV	54.0	-10.0	2.68 H	318	47.0	-3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	62.3 PK	68.2	-5.9	1.90 V	263	78.1	-15.8
2	*5795.00	120.1 PK			1.96 V	257	83.1	37.0
3	*5795.00	109.5 AV			1.96 V	257	72.5	37.0
4	#5936.80	54.0 PK	68.2	-14.2	1.90 V	263	69.4	-15.4
5	11590.00	54.4 PK	74.0	-19.6	3.26 V	178	57.4	-3.0
6	11590.00	44.2 AV	54.0	-9.8	3.26 V	178	47.2	-3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.6 PK	74.0	-21.4	2.53 H	205	69.3	-16.7
2	5150.00	42.7 AV	54.0	-11.3	2.53 H	205	59.4	-16.7
3	*5210.00	96.4 PK			2.53 H	205	60.1	36.3
4	*5210.00	86.4 AV			2.53 H	205	50.1	36.3
5	#10420.00	51.7 PK	68.2	-16.5	3.02 H	212	55.7	-4.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	2.39 V	175	78.5	-16.7
2	5150.00	52.8 AV	54.0	-1.2	2.39 V	175	69.5	-16.7
3	*5210.00	100.8 PK			2.39 V	175	64.5	36.3
4	*5210.00	90.8 AV			2.39 V	175	54.5	36.3
5	#10420.00	52.3 PK	68.2	-15.9	2.89 V	128	56.3	-4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	96.9 PK			2.47 H	204	60.8	36.1
2	*5290.00	87.5 AV			2.47 H	204	51.4	36.1
3	5350.00	53.6 PK	74.0	-20.4	2.47 H	204	70.1	-16.5
4	5350.00	43.8 AV	54.0	-10.2	2.47 H	204	60.3	-16.5
5	#10580.00	52.8 PK	68.2	-15.4	2.93 H	218	56.6	-3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	101.9 PK			2.52 V	178	65.8	36.1
2	*5290.00	91.4 AV			2.52 V	178	55.3	36.1
3	5350.00	62.6 PK	74.0	-11.4	2.52 V	178	79.1	-16.5
4	5350.00	53.0 AV	54.0	-1.0	2.52 V	178	69.5	-16.5
5	#10580.00	53.0 PK	68.2	-15.2	2.30 V	241	56.8	-3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.6 PK	74.0	-22.4	1.59 H	186	67.7	-16.1
2	5460.00	41.0 AV	54.0	-13.0	1.59 H	186	57.1	-16.1
3	#5470.00	52.5 PK	68.2	-15.7	1.59 H	186	68.6	-16.1
4	*5530.00	92.0 PK			1.59 H	186	55.4	36.6
5	*5530.00	83.0 AV			1.59 H	186	46.4	36.6
6	11060.00	53.8 PK	74.0	-20.2	2.39 H	263	57.4	-3.6
7	11060.00	44.0 AV	54.0	-10.0	2.39 H	263	47.6	-3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.6 PK	74.0	-8.4	2.39 V	3	81.7	-16.1
2	5460.00	53.1 AV	54.0	-0.9	2.39 V	3	69.2	-16.1
3	#5470.00	65.1 PK	68.2	-3.1	2.39 V	3	81.2	-16.1
4	*5530.00	102.9 PK			2.39 V	3	66.3	36.6
5	*5530.00	93.3 AV			2.39 V	3	56.7	36.6
6	11060.00	54.8 PK	74.0	-19.2	3.61 V	157	58.4	-3.6
7	11060.00	44.7 AV	54.0	-9.3	3.61 V	157	48.3	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	101.8 PK			1.62 H	186	65.1	36.7
2	*5610.00	92.3 AV			1.62 H	186	55.6	36.7
3	#5725.00	53.1 PK	68.2	-15.1	1.62 H	186	68.8	-15.7
4	11220.00	54.0 PK	74.0	-20.0	3.47 H	155	57.4	-3.4
5	11220.00	44.2 AV	54.0	-9.8	3.47 H	155	47.6	-3.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	113.5 PK			1.47 V	351	76.8	36.7
2	*5610.00	102.0 AV			1.47 V	351	65.3	36.7
3	#5725.00	66.9 PK	68.2	-1.3	1.47 V	351	82.6	-15.7
4	11220.00	55.0 PK	74.0	-19.0	3.14 V	45	58.4	-3.4
5	11220.00	44.2 AV	54.0	-9.8	3.14 V	45	47.6	-3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	55.3 PK	68.2	-12.9	2.66 H	43	71.1	-15.8
2	*5775.00	105.4 PK			2.66 H	43	68.4	37.0
3	*5775.00	94.6 AV			2.66 H	43	57.6	37.0
4	#5936.80	54.7 PK	68.2	-13.5	2.66 H	43	70.1	-15.4
5	11550.00	54.8 PK	74.0	-19.2	3.66 H	188	57.6	-2.8
6	11550.00	44.8 AV	54.0	-9.2	3.66 H	188	47.6	-2.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.20	67.6 PK	68.2	-0.6	1.93 V	49	83.4	-15.8
2	*5775.00	114.4 PK			1.93 V	49	77.4	37.0
3	*5775.00	104.2 AV			1.93 V	49	67.2	37.0
4	#5930.40	61.0 PK	68.2	-7.2	1.93 V	49	76.4	-15.4
5	11550.00	55.4 PK	74.0	-18.6	3.67 V	199	58.2	-2.8
6	11550.00	45.5 AV	54.0	-8.5	3.67 V	199	48.3	-2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

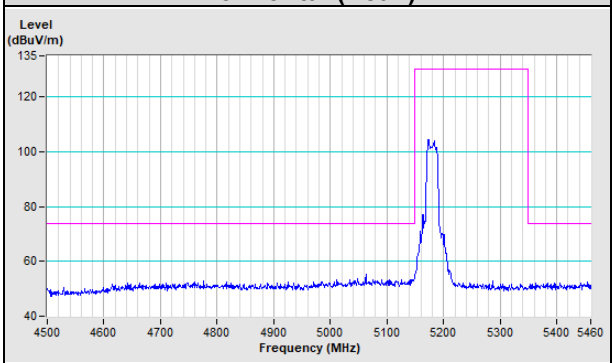
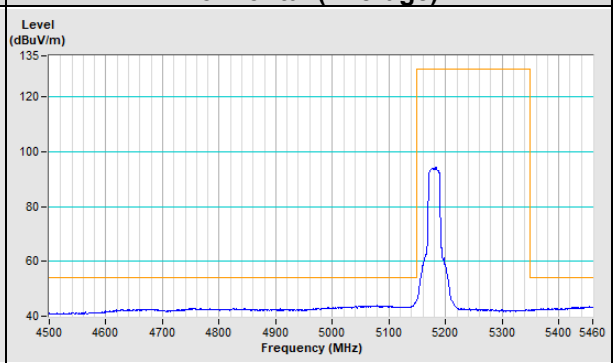
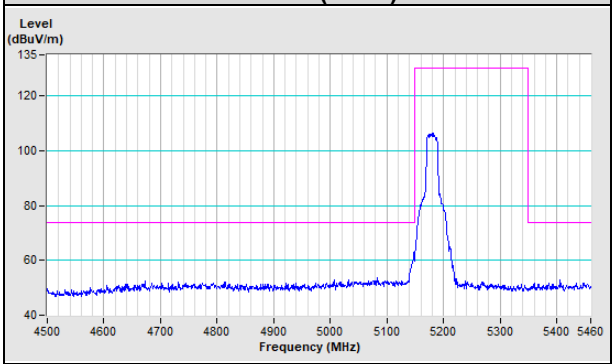
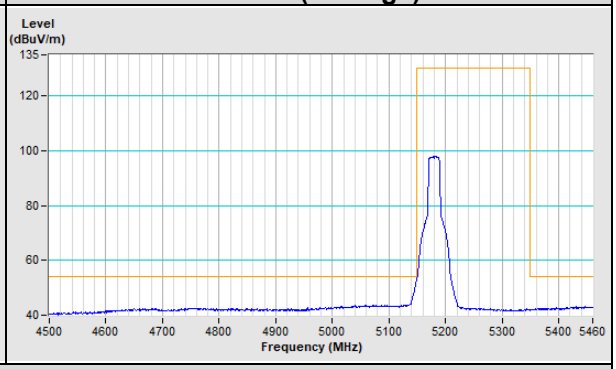
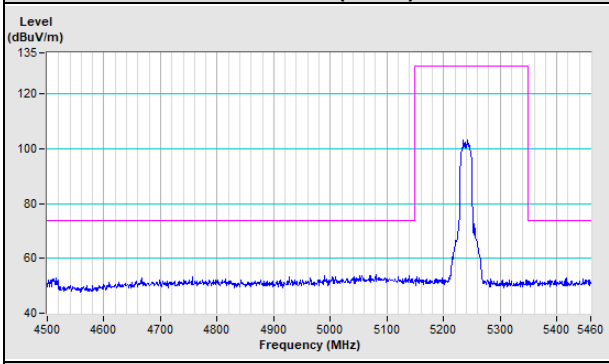
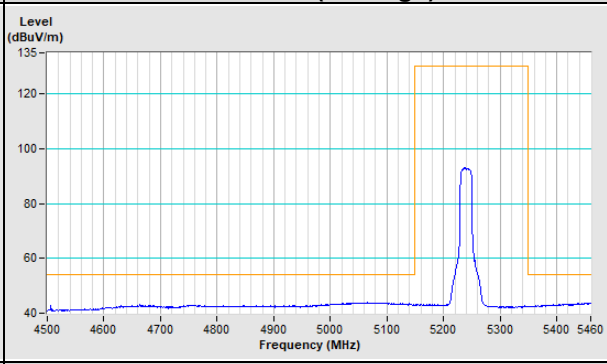
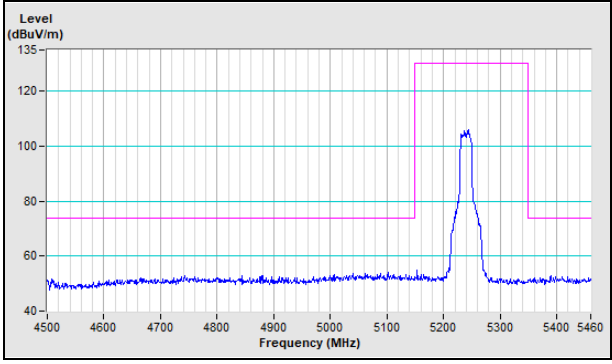
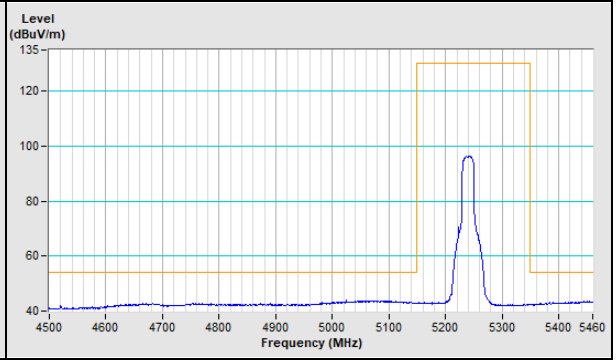
RF Mode	TX 802.11ax (HE160)	Channel	CH 114：5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.40 H	105	67.5	-16.1
2	5460.00	41.3 AV	54.0	-12.7	1.40 H	105	57.4	-16.1
3	#5470.00	51.1 PK	68.2	-17.1	1.40 H	105	67.2	-16.1
4	*5570.00	86.8 PK			1.40 H	105	50.1	36.7
5	*5570.00	77.9 AV			1.40 H	105	41.2	36.7
6	11140.00	53.9 PK	74.0	-20.1	3.47 H	106	57.4	-3.5
7	11140.00	44.1 AV	54.0	-9.9	3.47 H	106	47.6	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5454.94	62.0 PK	74.0	-12.0	2.82 V	343	78.1	-16.1
2	5454.94	52.6 AV	54.0	-1.4	2.82 V	343	68.7	-16.1
3	#5466.16	63.2 PK	68.2	-5.0	2.82 V	343	79.3	-16.1
4	*5570.00	98.1 PK			2.82 V	343	61.4	36.7
5	*5570.00	89.5 AV			2.82 V	343	52.8	36.7
6	11140.00	54.9 PK	74.0	-19.1	3.96 V	274	58.4	-3.5
7	11140.00	45.1 AV	54.0	-8.9	3.96 V	274	48.6	-3.5

Remarks:

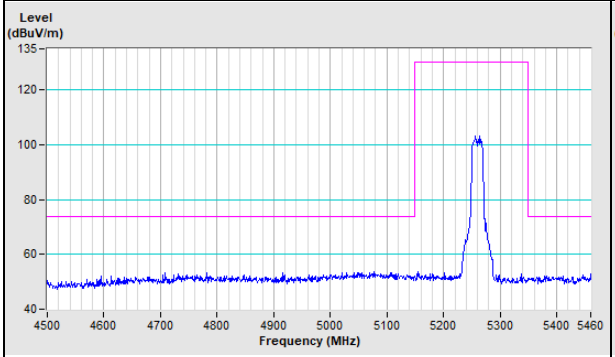
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

NSS 2 Plot of Band Edge

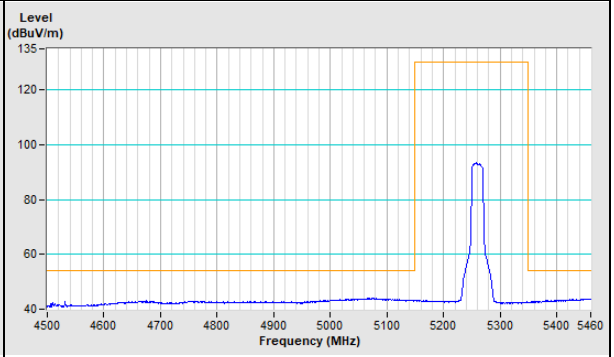
802.11ax (HE20) Channel 36	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 48	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE20) Channel 52

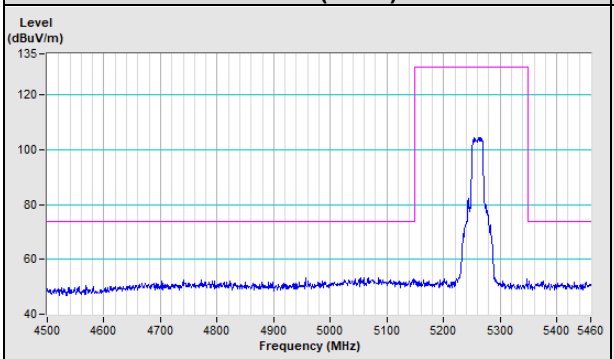
Horizontal (Peak)



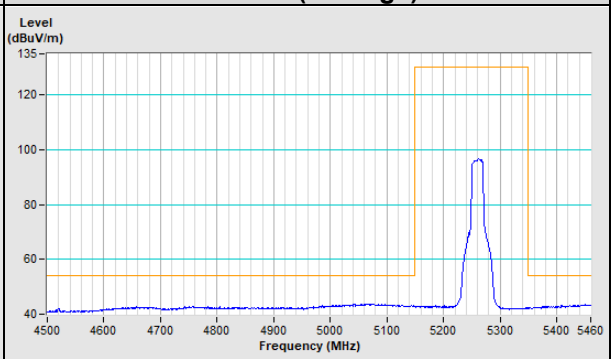
Horizontal (Average)



Vertical (Peak)

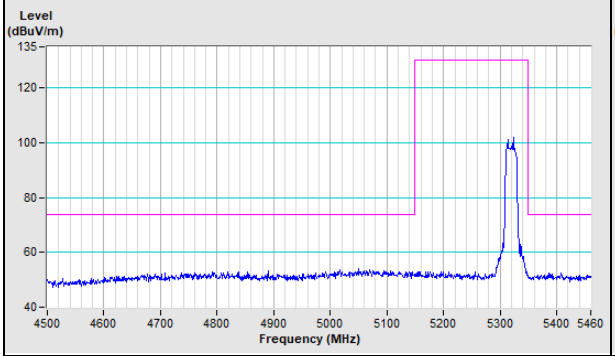


Vertical (Average)

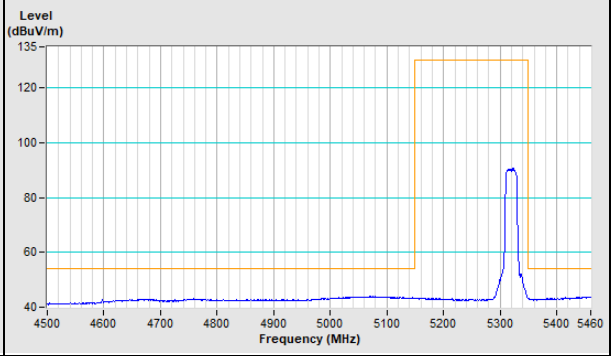


802.11ax (HE20) Channel 64

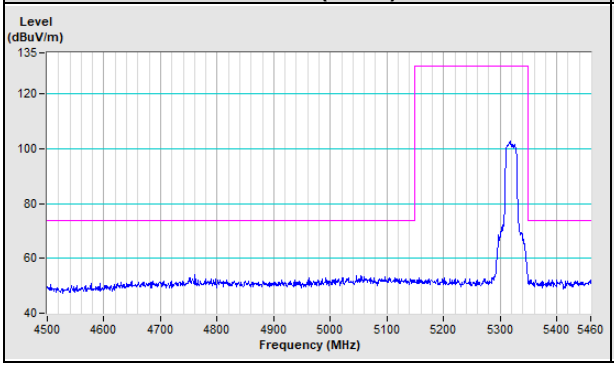
Horizontal (Peak)



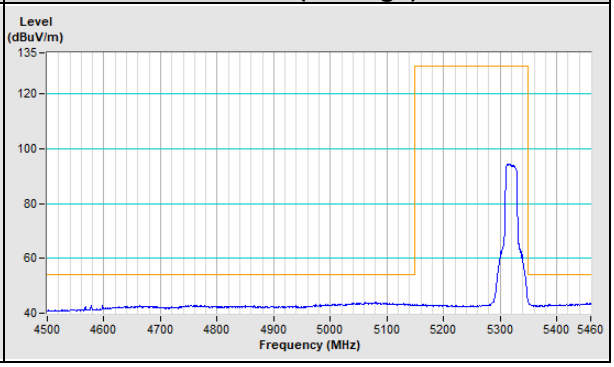
Horizontal (Average)



Vertical (Peak)

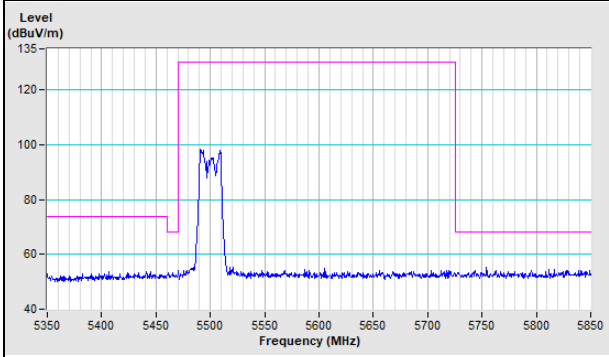


Vertical (Average)

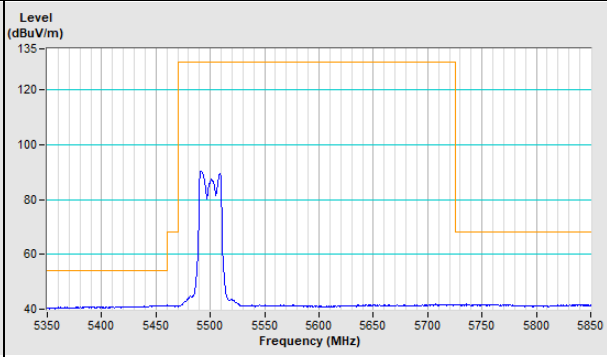


802.11ax (HE20) Channel 100

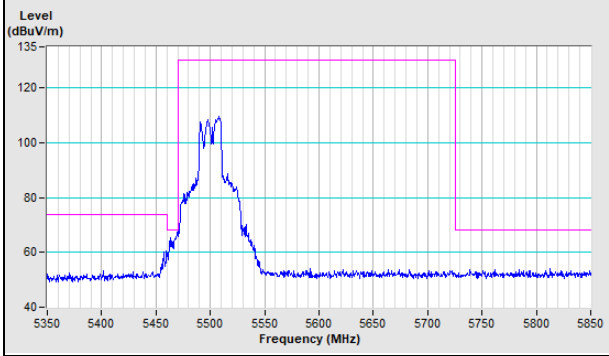
Horizontal (Peak)



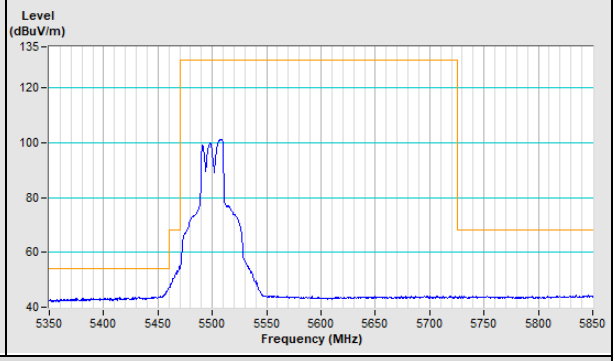
Horizontal (Average)



Vertical (Peak)

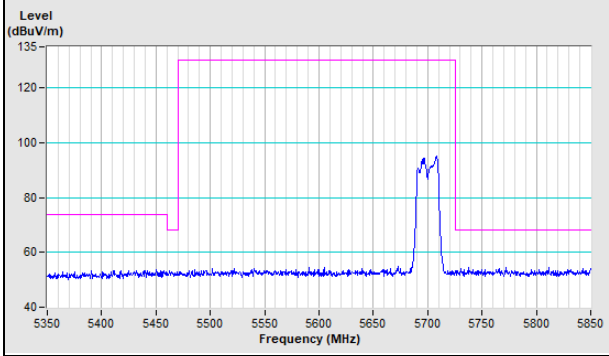


Vertical (Average)

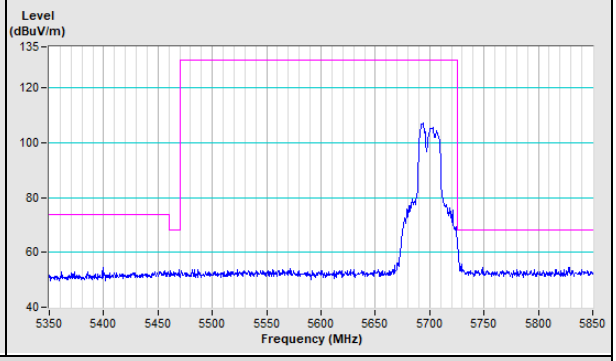


802.11ax (HE20) Channel 140

Horizontal (Peak)

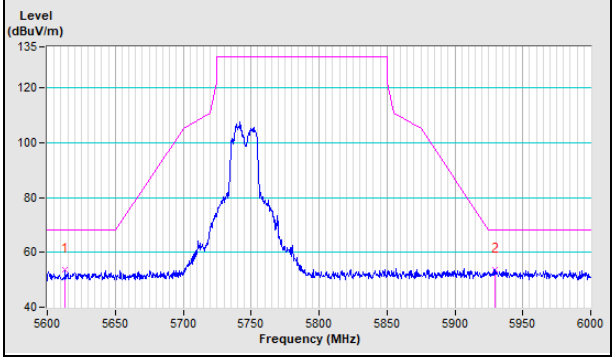


Vertical (Peak)

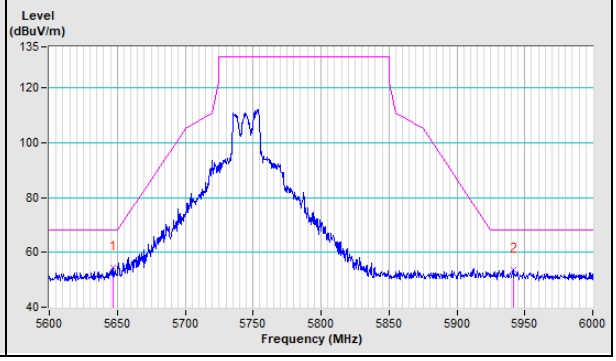


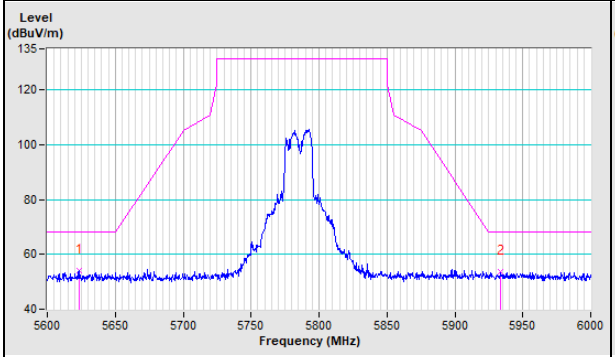
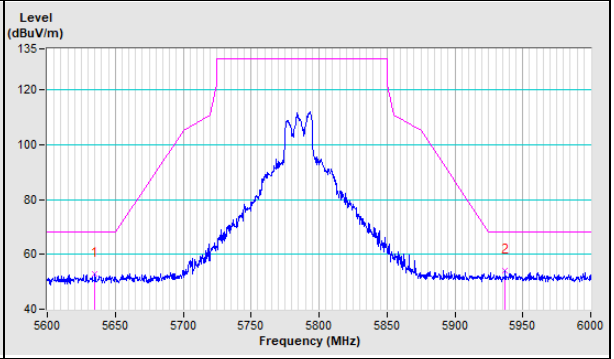
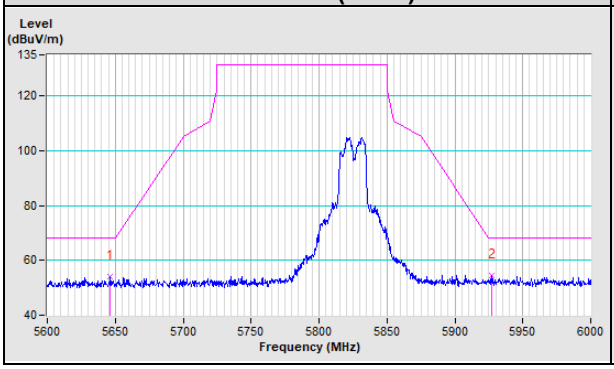
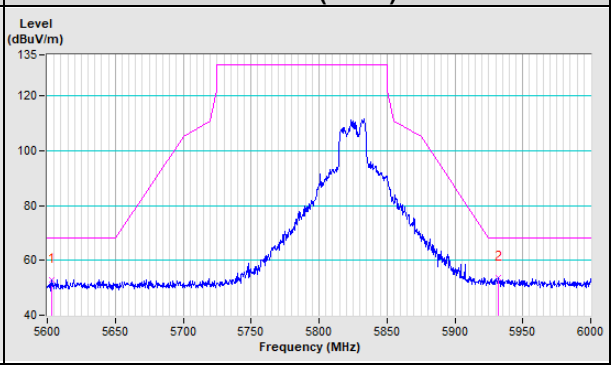
802.11ax (HE20) Channel 149

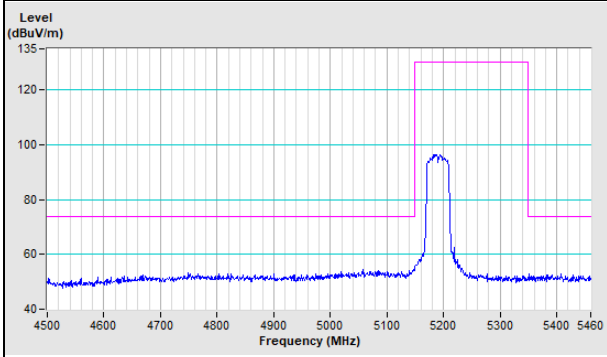
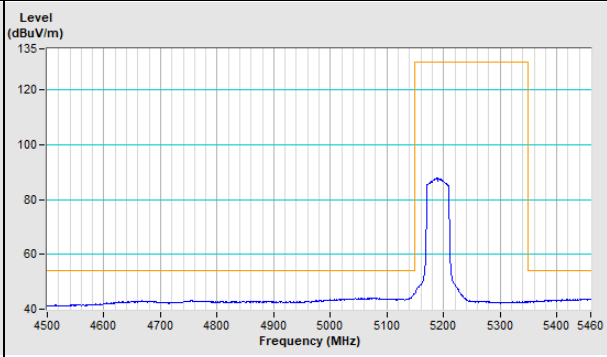
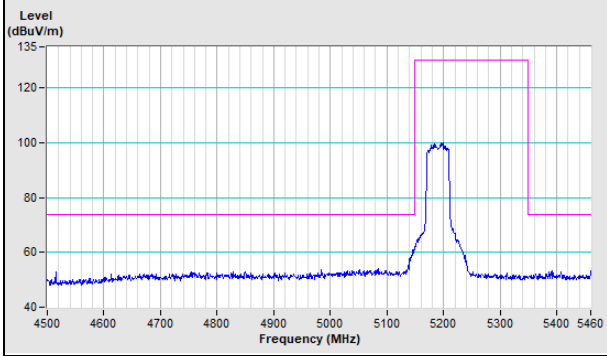
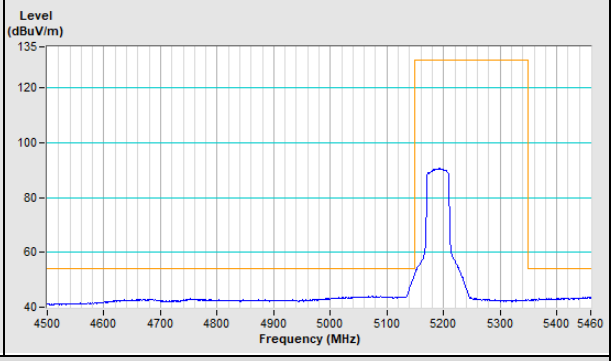
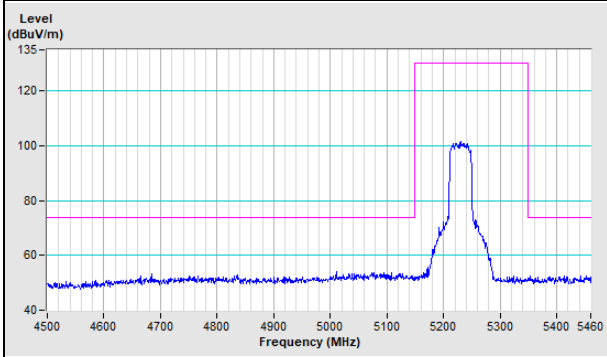
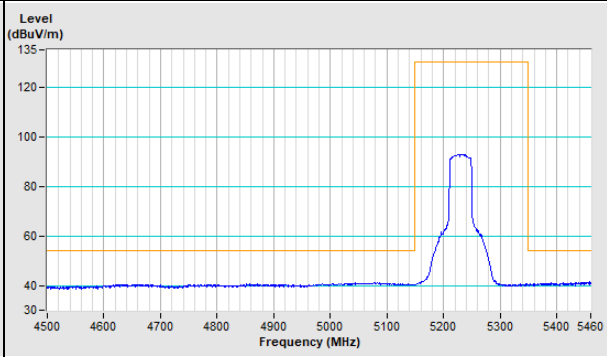
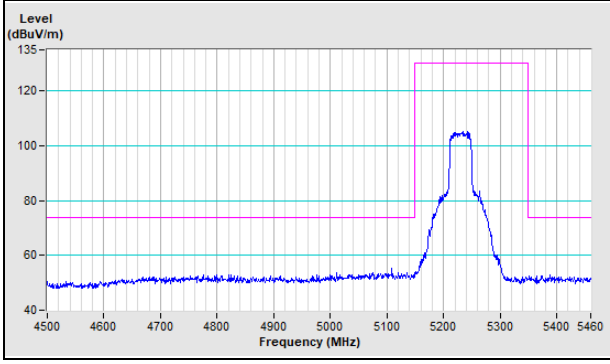
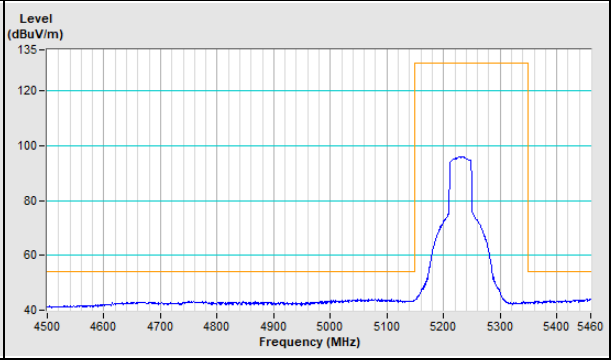
Horizontal (Peak)

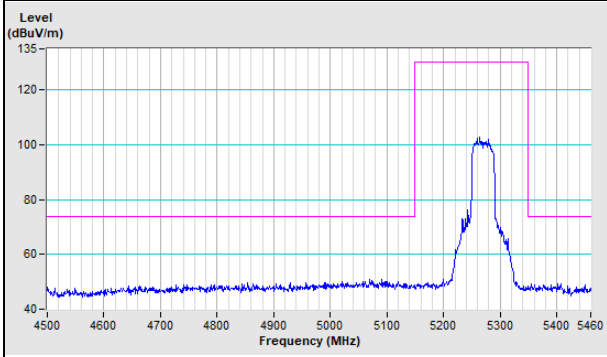
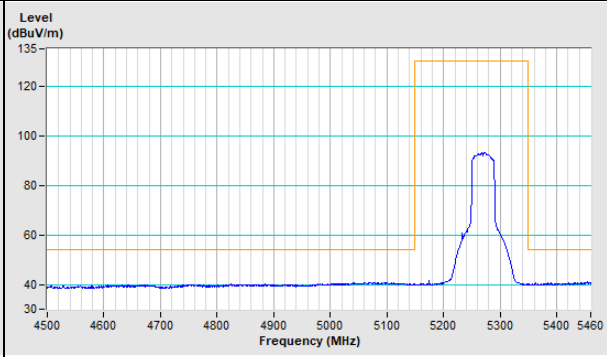
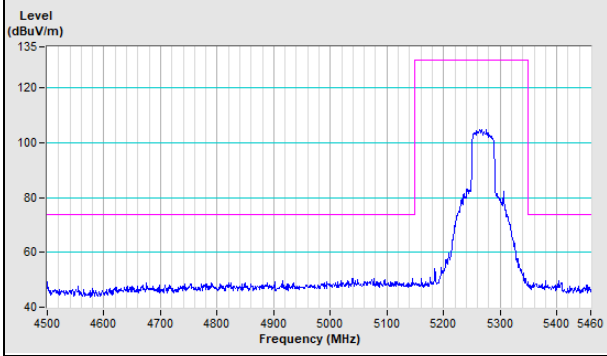
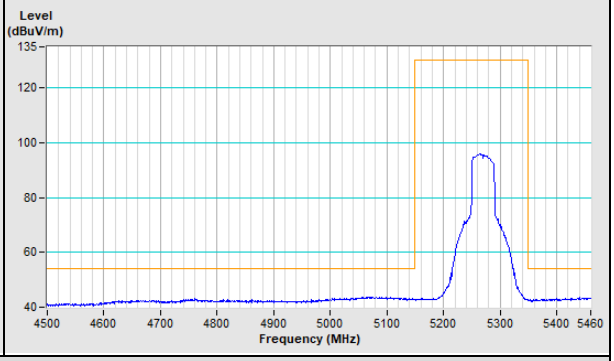
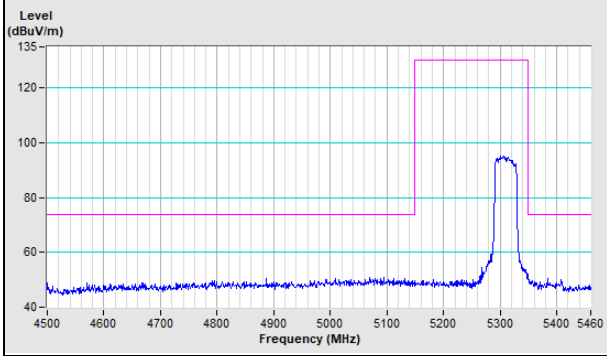
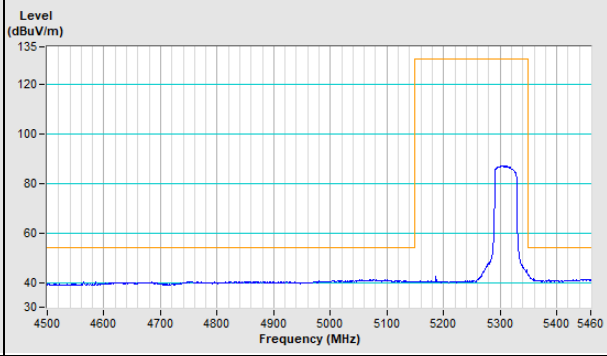
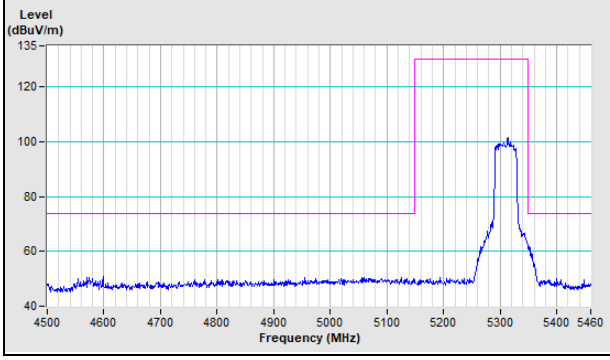
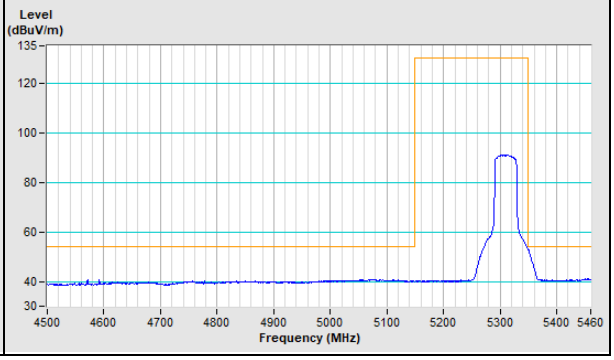


Vertical (Peak)



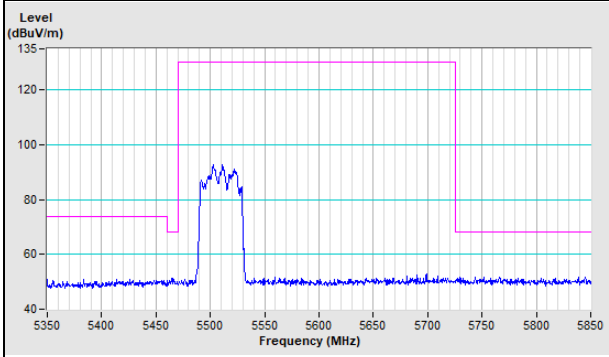
802.11ax (HE20) Channel 157	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE20) Channel 165	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE40) Channel 38	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE40) Channel 46	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

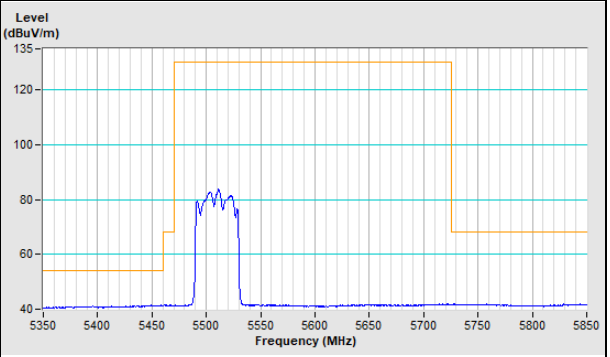
802.11ax (HE40) Channel 54	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE40) Channel 62	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE40) Channel 102

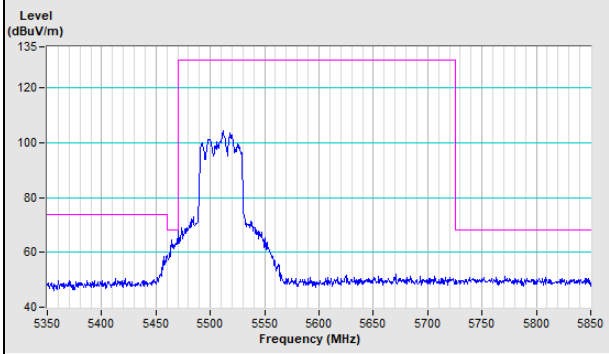
Horizontal (Peak)



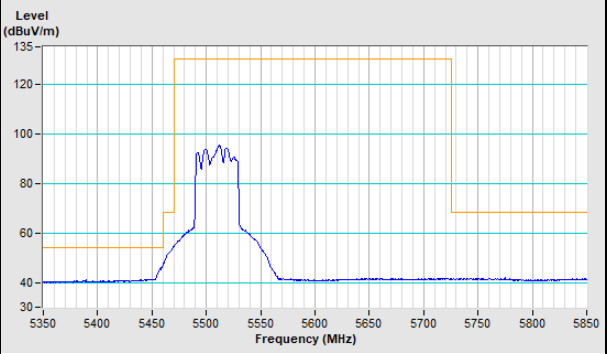
Horizontal (Average)



Vertical (Peak)

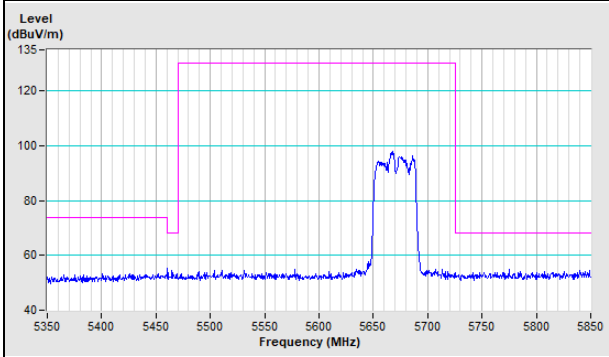


Vertical (Average)

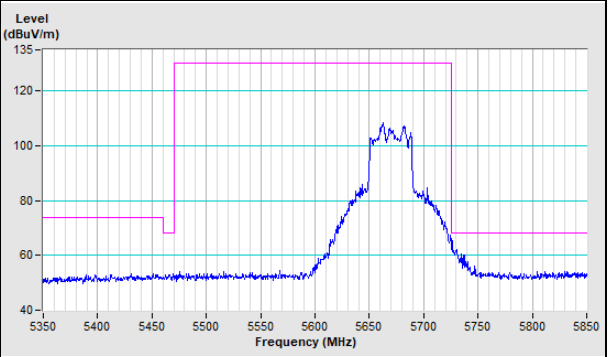


802.11ax (HE40) Channel 134

Horizontal (Peak)

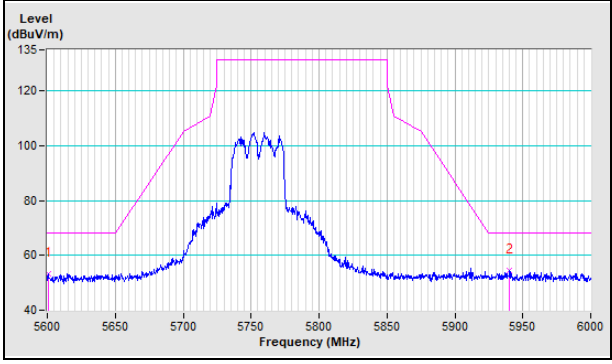


Vertical (Peak)

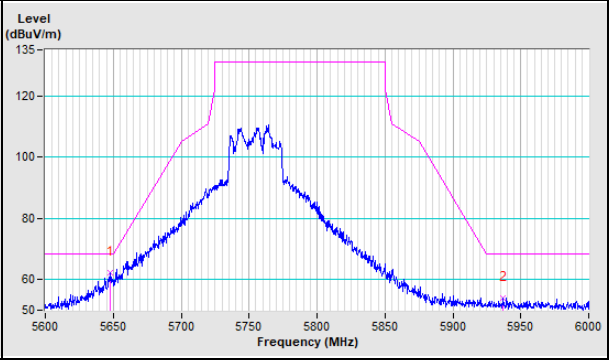


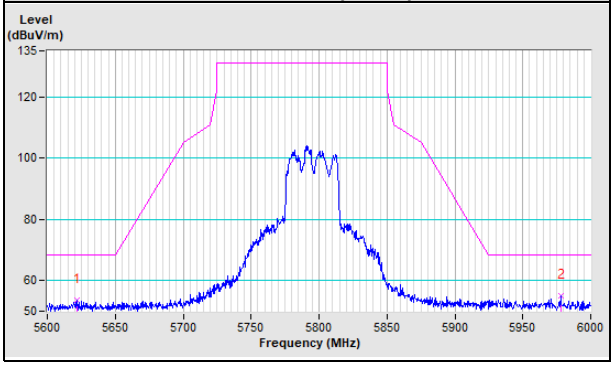
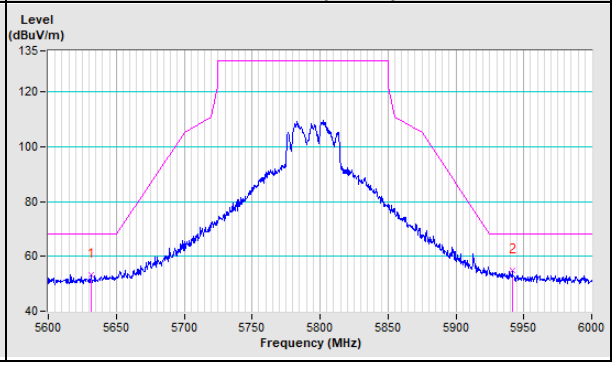
802.11ax (HE40) Channel 151

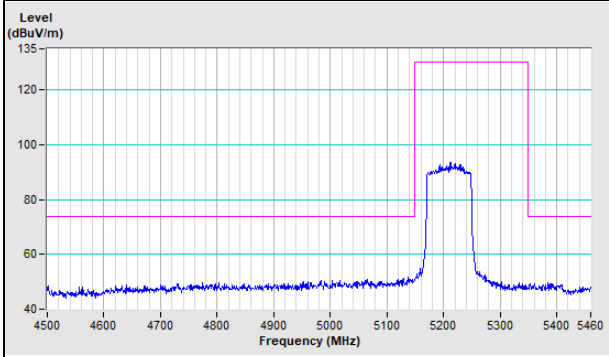
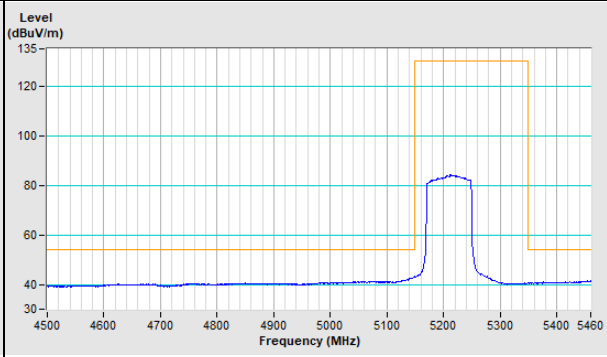
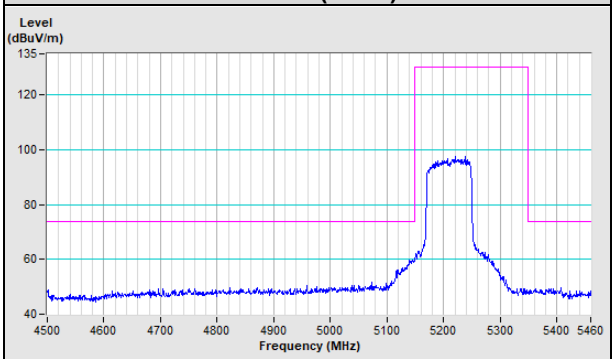
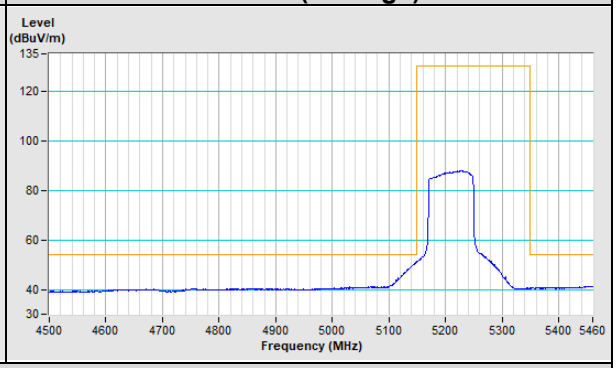
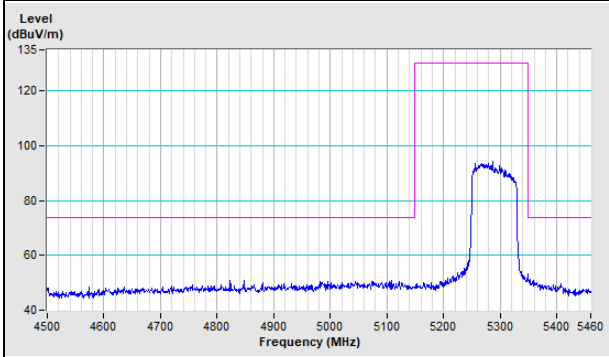
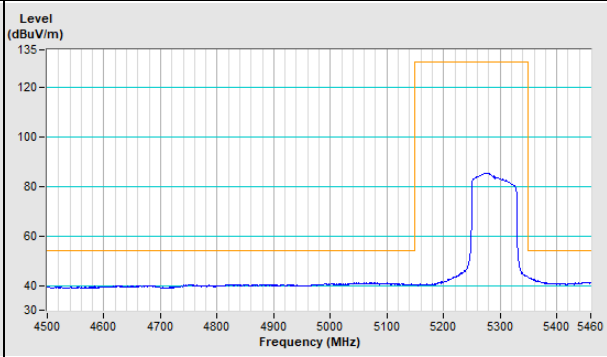
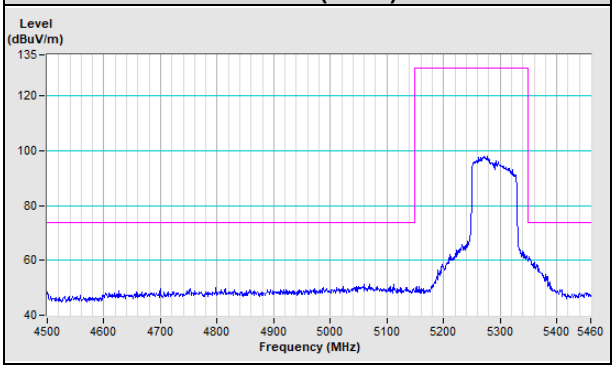
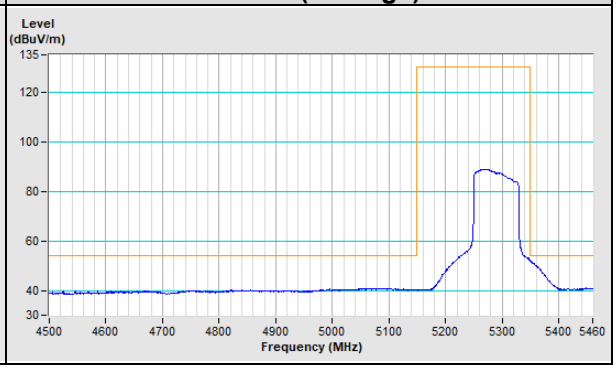
Horizontal (Peak)



Vertical (Peak)

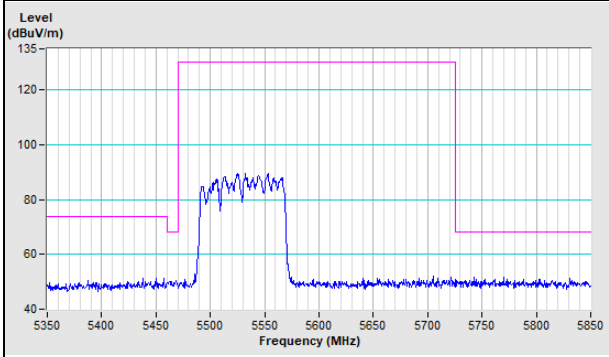


802.11ax (HE40) Channel 159	
Horizontal (Peak)	**Vertical (Peak)**
	

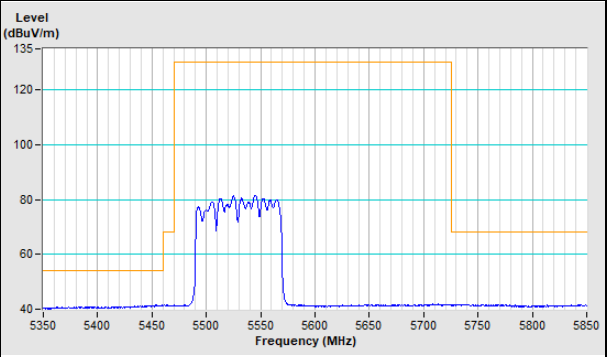
802.11ax (HE80) Channel 42	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE80) Channel 58	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE80) Channel 106

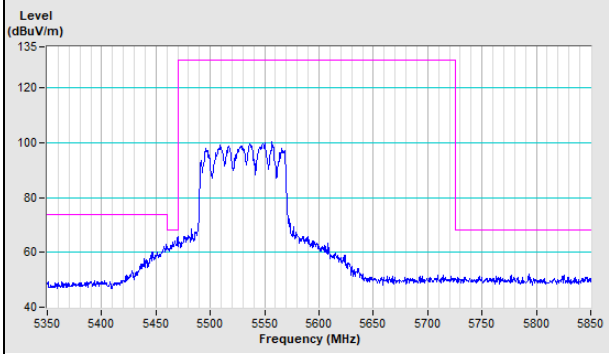
Horizontal (Peak)



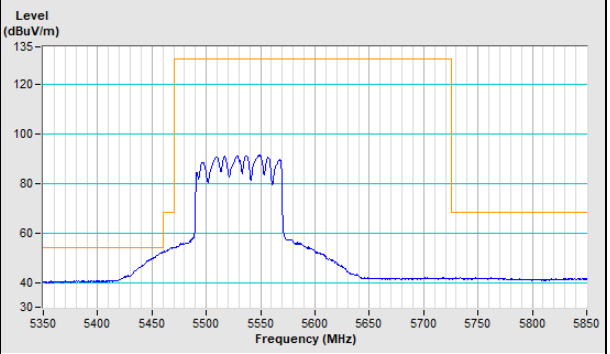
Horizontal (Average)



Vertical (Peak)

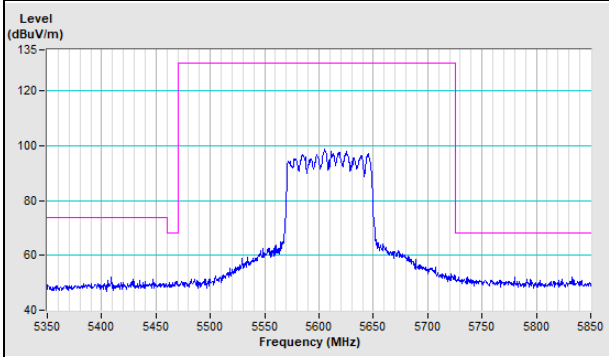


Vertical (Average)

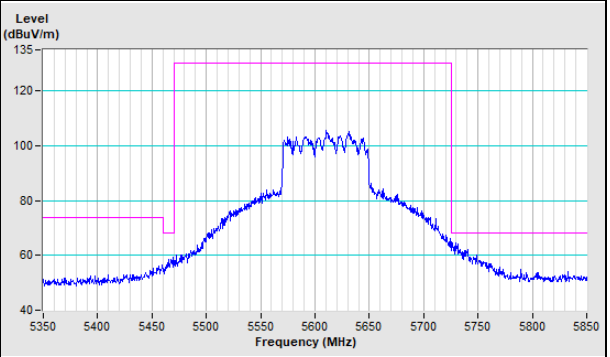


802.11ax (HE80) Channel 122

Horizontal (Peak)

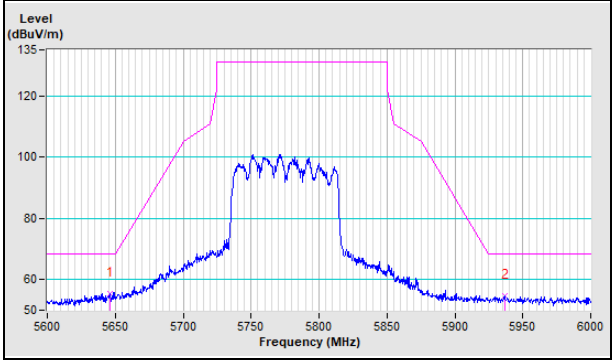


Vertical (Peak)

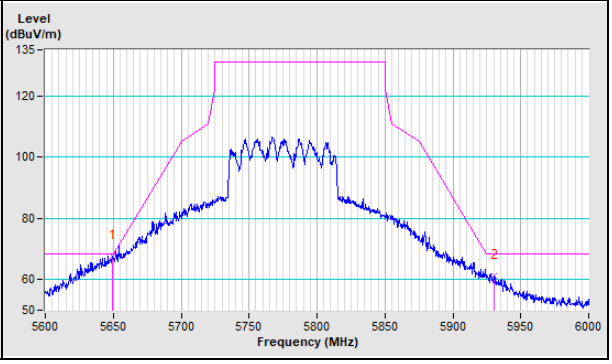


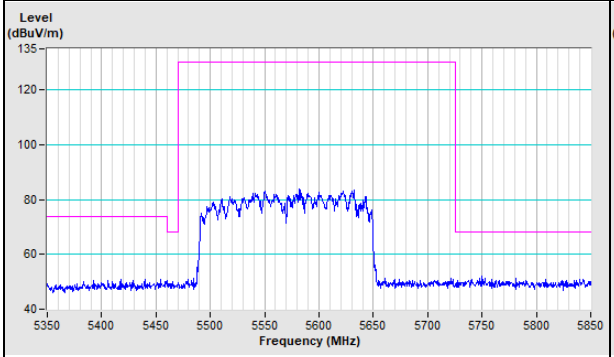
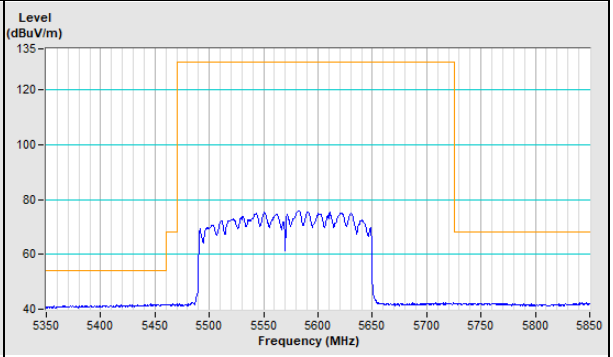
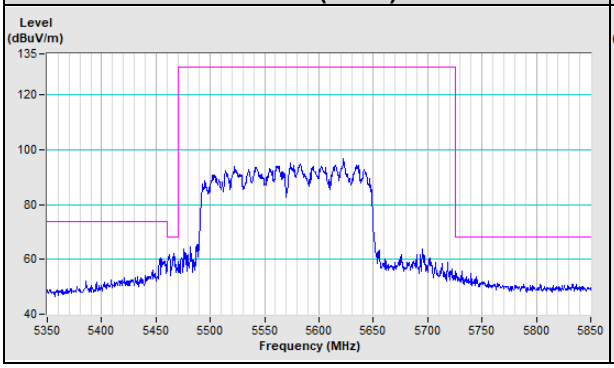
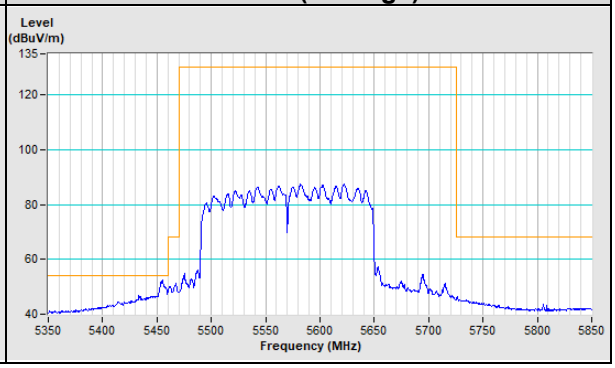
802.11ax (HE80) Channel 155

Horizontal (Peak)



Vertical (Peak)



802.11ax (HE160) Channel 114	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

NSS 4

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.71 H	186	67.5	-16.1
2	5460.00	40.9 AV	54.0	-13.1	1.71 H	186	57.0	-16.1
3	#5470.00	51.6 PK	68.2	-16.6	1.71 H	186	67.7	-16.1
4	*5500.00	100.3 PK			1.71 H	186	63.8	36.5
5	*5500.00	90.6 AV			1.71 H	186	54.1	36.5
6	11000.00	53.9 PK	74.0	-20.1	3.21 H	287	57.6	-3.7
7	11000.00	43.6 AV	54.0	-10.4	3.21 H	287	47.3	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.1 PK	74.0	-18.9	2.03 V	199	71.2	-16.1
2	5460.00	41.9 AV	54.0	-12.1	2.03 V	199	58.0	-16.1
3	#5470.00	66.8 PK	68.2	-1.4	2.03 V	199	82.9	-16.1
4	*5500.00	113.2 PK			2.03 V	199	76.7	36.5
5	*5500.00	101.4 AV			2.03 V	199	64.9	36.5
6	11000.00	54.7 PK	74.0	-19.3	2.36 V	297	58.4	-3.7
7	11000.00	44.9 AV	54.0	-9.1	2.36 V	297	48.6	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	107.2 PK			1.53 H	189	70.5	36.7
2	*5580.00	96.2 AV			1.53 H	189	59.5	36.7
3	11160.00	53.9 PK	74.0	-20.1	3.26 H	222	57.4	-3.5
4	11160.00	43.8 AV	54.0	-10.2	3.26 H	222	47.3	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.6 PK			2.00 V	198	81.9	36.7
2	*5580.00	106.6 AV			2.00 V	198	69.9	36.7
3	11160.00	55.2 PK	74.0	-18.8	3.29 V	287	58.7	-3.5
4	11160.00	45.1 AV	54.0	-8.9	3.29 V	287	48.6	-3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	96.8 PK			1.60 H	196	59.7	37.1
2	*5700.00	87.3 AV			1.60 H	196	50.2	37.1
3	#5725.00	52.5 PK	68.2	-15.7	1.60 H	196	68.2	-15.7
4	11400.00	54.9 PK	74.0	-19.1	3.78 H	199	57.4	-2.5
5	11400.00	45.1 AV	54.0	-8.9	3.78 H	199	47.6	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.6 PK			1.99 V	196	73.5	37.1
2	*5700.00	98.6 AV			1.99 V	196	61.5	37.1
3	#5725.00	67.5 PK	68.2	-0.7	1.99 V	196	83.2	-15.7
4	11400.00	55.9 PK	74.0	-18.1	3.62 V	288	58.4	-2.5
5	11400.00	46.1 AV	54.0	-7.9	3.62 V	288	48.6	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.00	53.6 PK	68.2	-14.6	2.72 H	44	69.5	-15.9
2	*5745.00	109.8 PK			2.72 H	44	72.8	37.0
3	*5745.00	100.3 AV			2.72 H	44	63.3	37.0
4	#5976.80	53.6 PK	68.2	-14.6	2.72 H	44	69.1	-15.5
5	11490.00	55.1 PK	74.0	-18.9	3.35 H	188	57.6	-2.5
6	11490.00	44.8 AV	54.0	-9.2	3.35 H	188	47.3	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5622.40	53.7 PK	68.2	-14.5	2.47 V	280	69.6	-15.9
2	*5745.00	121.4 PK			2.47 V	280	84.4	37.0
3	*5745.00	110.9 AV			2.47 V	280	73.9	37.0
4	#5932.80	54.0 PK	68.2	-14.2	2.47 V	280	69.4	-15.4
5	11490.00	56.1 PK	74.0	-17.9	3.65 V	178	58.6	-2.5
6	11490.00	45.7 AV	54.0	-8.3	3.65 V	178	48.2	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.40	53.6 PK	68.2	-14.6	2.54 H	43	69.6	-16.0
2	*5785.00	109.4 PK			2.54 H	43	72.4	37.0
3	*5785.00	99.8 AV			2.54 H	43	62.8	37.0
4	#5929.60	53.9 PK	68.2	-14.3	2.54 H	43	69.3	-15.4
5	11570.00	54.8 PK	74.0	-19.2	2.28 H	320	57.6	-2.8
6	11570.00	44.6 AV	54.0	-9.4	2.28 H	320	47.4	-2.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	54.0 PK	68.2	-14.2	2.54 V	283	69.9	-15.9
2	*5785.00	121.4 PK			2.54 V	283	84.4	37.0
3	*5785.00	110.5 AV			2.54 V	283	73.5	37.0
4	#5926.40	54.0 PK	68.2	-14.2	2.54 V	283	69.4	-15.4
5	11570.00	55.6 PK	74.0	-18.4	3.32 V	265	58.4	-2.8
6	11570.00	45.1 AV	54.0	-8.9	3.32 V	265	47.9	-2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.80	52.8 PK	68.2	-15.4	2.56 H	43	68.7	-15.9
2	*5825.00	108.8 PK			2.56 H	43	71.6	37.2
3	*5825.00	99.1 AV			2.56 H	43	61.9	37.2
4	#5931.20	54.0 PK	68.2	-14.2	2.56 H	43	69.4	-15.4
5	11650.00	54.2 PK	74.0	-19.8	3.44 H	262	57.4	-3.2
6	11650.00	44.0 AV	54.0	-10.0	3.44 H	262	47.2	-3.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.00	53.0 PK	68.2	-15.2	2.45 V	285	68.9	-15.9
2	*5825.00	120.6 PK			2.45 V	285	83.4	37.2
3	*5825.00	110.4 AV			2.45 V	285	73.2	37.2
4	#5968.00	53.6 PK	68.2	-14.6	2.45 V	285	69.1	-15.5
5	11650.00	54.4 PK	74.0	-19.6	3.37 V	42	57.6	-3.2
6	11650.00	44.1 AV	54.0	-9.9	3.37 V	42	47.3	-3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.0 PK	74.0	-23.0	1.48 H	106	67.1	-16.1
2	5460.00	40.8 AV	54.0	-13.2	1.48 H	106	56.9	-16.1
3	#5470.00	51.4 PK	68.2	-16.8	1.48 H	106	67.5	-16.1
4	*5510.00	94.4 PK			1.48 H	106	57.9	36.5
5	*5510.00	83.8 AV			1.48 H	106	47.3	36.5
6	11020.00	53.8 PK	74.0	-20.2	3.78 H	149	57.5	-3.7
7	11020.00	44.1 AV	54.0	-9.9	3.78 H	149	47.8	-3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.1 PK	74.0	-15.9	2.53 V	346	74.2	-16.1
2	5460.00	46.4 AV	54.0	-7.6	2.53 V	346	62.5	-16.1
3	#5470.00	67.2 PK	68.2	-1.0	2.53 V	346	83.3	-16.1
4	*5510.00	106.4 PK			2.53 V	346	69.9	36.5
5	*5510.00	95.6 AV			2.53 V	346	59.1	36.5
6	11020.00	55.0 PK	74.0	-19.0	2.32 V	269	58.7	-3.7
7	11020.00	44.6 AV	54.0	-9.4	2.32 V	269	48.3	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	101.9 PK			1.30 H	106	65.2	36.7
2	*5550.00	92.1 AV			1.30 H	106	55.4	36.7
3	11100.00	53.9 PK	74.0	-20.1	2.32 H	289	57.4	-3.5
4	11100.00	44.1 AV	54.0	-9.9	2.32 H	289	47.6	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	114.7 PK			2.57 V	296	78.0	36.7
2	*5550.00	104.2 AV			2.57 V	296	67.5	36.7
3	11100.00	55.2 PK	74.0	-18.8	3.22 V	166	58.7	-3.5
4	11100.00	44.7 AV	54.0	-9.3	3.22 V	166	48.2	-3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	100.2 PK			1.13 H	100	63.2	37.0
2	*5670.00	90.9 AV			1.13 H	100	53.9	37.0
3	#5725.00	51.7 PK	68.2	-16.5	1.13 H	100	67.4	-15.7
4	11340.00	54.8 PK	74.0	-19.2	3.77 H	159	57.7	-2.9
5	11340.00	44.7 AV	54.0	-9.3	3.77 H	159	47.6	-2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	112.6 PK			2.53 V	302	75.6	37.0
2	*5670.00	103.0 AV			2.53 V	302	66.0	37.0
3	#5725.00	66.0 PK	68.2	-2.2	2.53 V	302	81.7	-15.7
4	11340.00	55.8 PK	74.0	-18.2	3.77 V	198	58.7	-2.9
5	11340.00	45.7 AV	54.0	-8.3	3.77 V	198	48.6	-2.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5604.80	54.0 PK	68.2	-14.2	2.78 H	43	70.1	-16.1
2	*5755.00	107.2 PK			2.78 H	43	70.2	37.0
3	*5755.00	97.5 AV			2.78 H	43	60.5	37.0
4	#5950.80	54.1 PK	68.2	-14.1	2.78 H	43	69.7	-15.6
5	11510.00	54.9 PK	74.0	-19.1	2.33 H	149	57.6	-2.7
6	11510.00	44.5 AV	54.0	-9.5	2.33 H	149	47.2	-2.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	61.5 PK	68.2	-6.7	2.24 V	235	77.4	-15.9
2	*5755.00	118.1 PK			2.24 V	235	81.1	37.0
3	*5755.00	108.7 AV			2.24 V	235	71.7	37.0
4	#5944.00	53.9 PK	68.2	-14.3	2.24 V	235	69.3	-15.4
5	11510.00	55.7 PK	74.0	-18.3	3.74 V	111	58.4	-2.7
6	11510.00	44.9 AV	54.0	-9.1	3.74 V	111	47.6	-2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.80	53.9 PK	68.2	-14.3	2.63 H	42	69.8	-15.9
2	*5795.00	106.9 PK			2.63 H	42	69.9	37.0
3	*5795.00	96.9 AV			2.63 H	42	59.9	37.0
4	#5936.80	54.1 PK	68.2	-14.1	2.63 H	42	69.5	-15.4
5	11590.00	54.4 PK	74.0	-19.6	2.46 H	89	57.4	-3.0
6	11590.00	44.1 AV	54.0	-9.9	2.46 H	89	47.1	-3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	53.9 PK	68.2	-14.3	2.04 V	234	69.8	-15.9
2	*5795.00	117.5 PK			2.04 V	234	80.5	37.0
3	*5795.00	107.9 AV			2.04 V	234	70.9	37.0
4	#5927.60	56.2 PK	68.2	-12.0	2.04 V	234	71.6	-15.4
5	11590.00	55.7 PK	74.0	-18.3	2.32 V	229	58.7	-3.0
6	11590.00	44.6 AV	54.0	-9.4	2.32 V	229	47.6	-3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.0 PK	74.0	-23.0	1.33 H	107	67.1	-16.1
2	5460.00	41.6 AV	54.0	-12.4	1.33 H	107	57.7	-16.1
3	#5470.00	51.4 PK	68.2	-16.8	1.33 H	107	67.5	-16.1
4	*5530.00	91.5 PK			1.33 H	107	54.9	36.6
5	*5530.00	81.4 AV			1.33 H	107	44.8	36.6
6	11060.00	54.0 PK	74.0	-20.0	2.39 H	117	57.6	-3.6
7	11060.00	44.2 AV	54.0	-9.8	2.39 H	117	47.8	-3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.2 PK	74.0	-8.8	1.29 V	352	81.3	-16.1
2	**5460.00**	**53.8 AV**	**54.0**	**-0.2**	**1.29 V**	**352**	**69.9**	**-16.1**
3	#5470.00	65.3 PK	68.2	-2.9	1.29 V	352	81.4	-16.1
4	*5530.00	103.0 PK			1.29 V	352	66.4	36.6
5	*5530.00	92.0 AV			1.29 V	352	55.4	36.6
6	11060.00	54.8 PK	74.0	-19.2	3.63 V	119	58.4	-3.6
7	11060.00	44.6 AV	54.0	-9.4	3.63 V	119	48.2	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	99.6 PK			1.32 H	104	62.9	36.7
2	*5610.00	90.1 AV			1.32 H	104	53.4	36.7
3	#5725.00	52.3 PK	68.2	-15.9	1.32 H	104	68.0	-15.7
4	11220.00	54.0 PK	74.0	-20.0	3.23 H	226	57.4	-3.4
5	11220.00	44.2 AV	54.0	-9.8	3.23 H	226	47.6	-3.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	110.8 PK			1.23 V	360	74.1	36.7
2	*5610.00	101.7 AV			1.23 V	360	65.0	36.7
3	#5725.00	66.1 PK	68.2	-2.1	1.23 V	360	81.8	-15.7
4	11220.00	55.3 PK	74.0	-18.7	3.39 V	228	58.7	-3.4
5	11220.00	44.9 AV	54.0	-9.1	3.39 V	228	48.3	-3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.80	54.5 PK	68.2	-13.7	2.58 H	43	70.3	-15.8
2	*5775.00	102.6 PK			2.58 H	43	65.6	37.0
3	*5775.00	93.4 AV			2.58 H	43	56.4	37.0
4	#5934.80	54.6 PK	68.2	-13.6	2.58 H	43	70.0	-15.4
5	11550.00	54.9 PK	74.0	-19.1	2.96 H	333	57.7	-2.8
6	11550.00	44.3 AV	54.0	-9.7	2.96 H	333	47.1	-2.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	65.1 PK	68.2	-3.1	2.29 V	232	80.9	-15.8
2	*5775.00	112.7 PK			2.29 V	232	75.7	37.0
3	*5775.00	103.5 AV			2.29 V	232	66.5	37.0
4	#5928.00	67.7 PK	68.2	-0.5	2.29 V	232	83.1	-15.4
5	11550.00	55.9 PK	74.0	-18.1	3.42 V	228	58.7	-2.8
6	11550.00	44.8 AV	54.0	-9.2	3.42 V	228	47.6	-2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

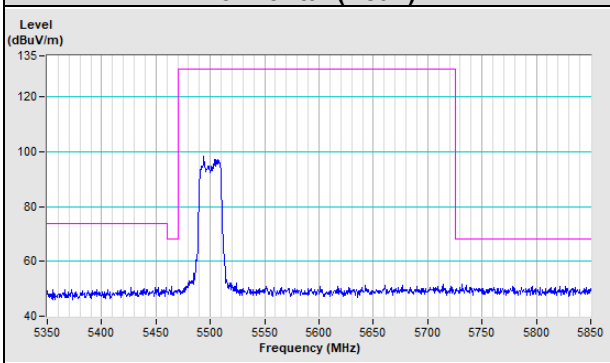
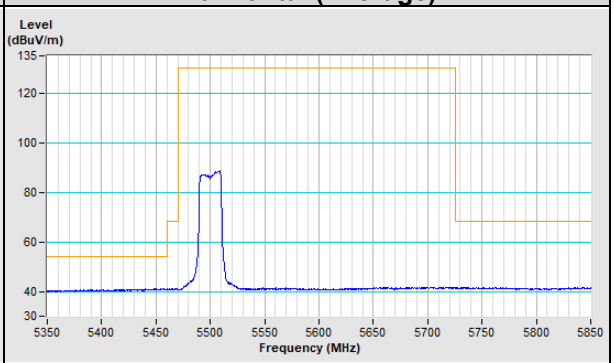
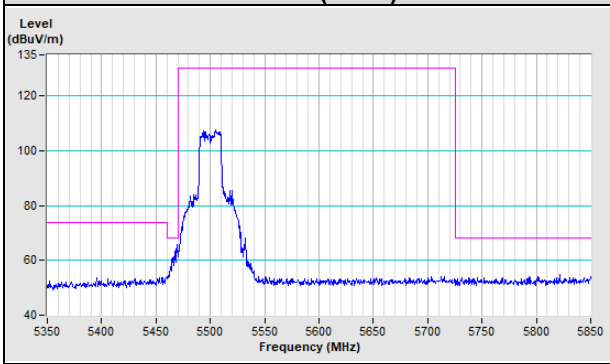
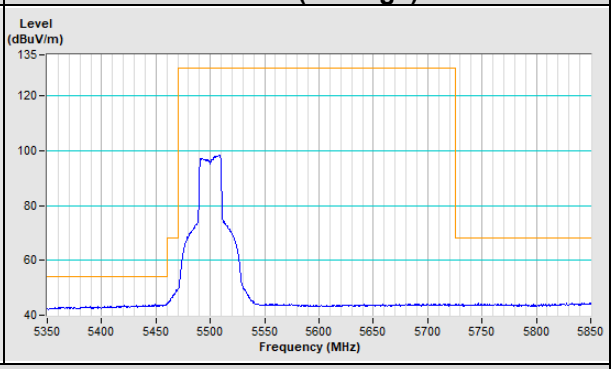
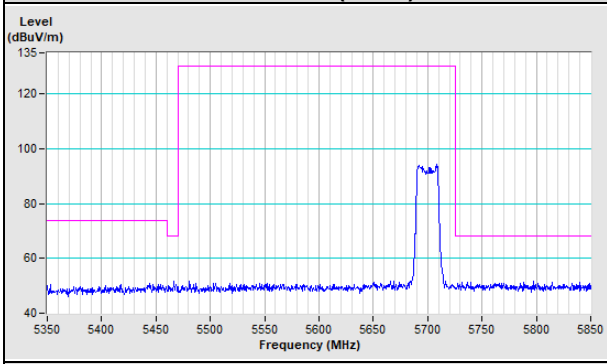
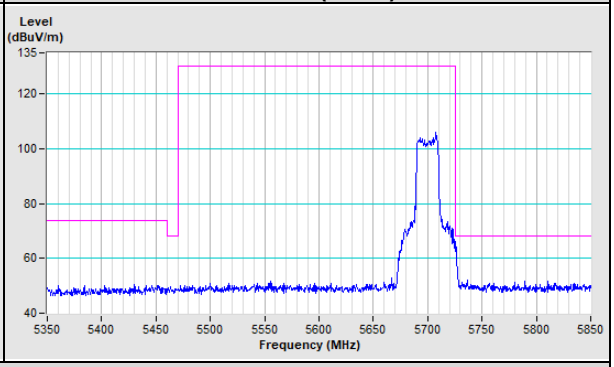
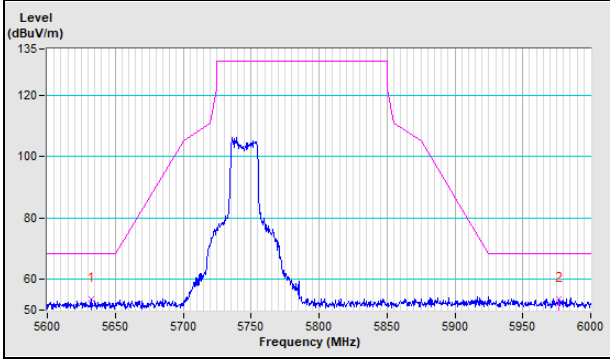
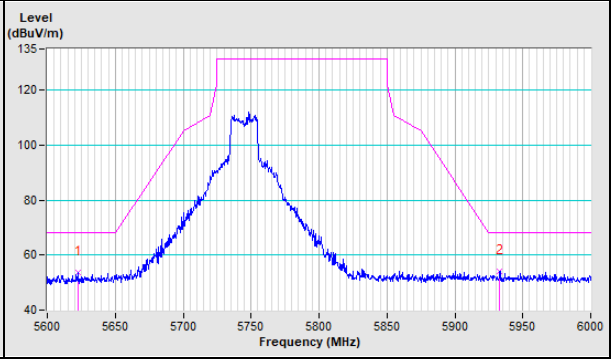
RF Mode	TX 802.11ax (HE160)	Channel	CH 114：5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

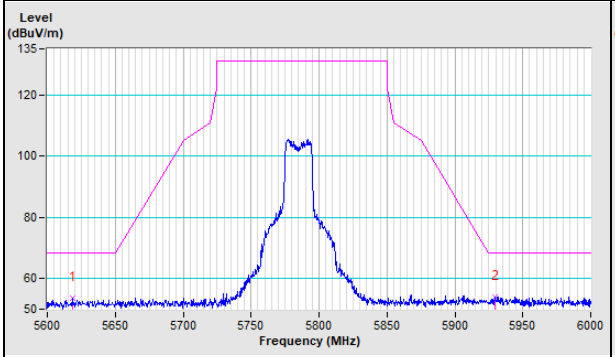
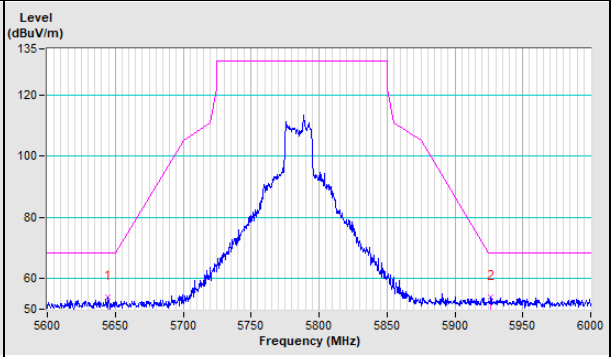
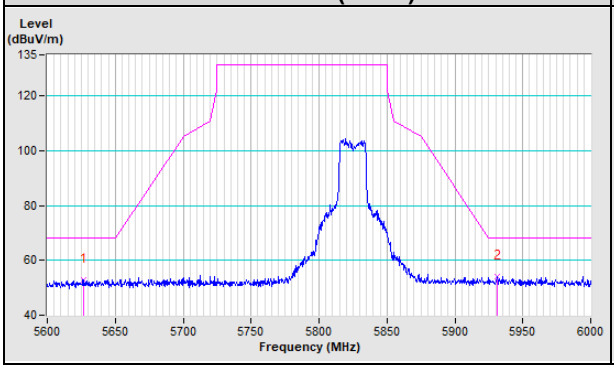
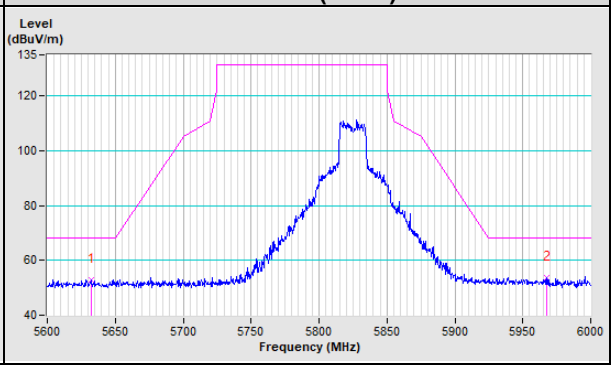
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.1 PK	74.0	-22.9	1.45 H	107	67.2	-16.1
2	5460.00	41.5 AV	54.0	-12.5	1.45 H	107	57.6	-16.1
3	#5470.00	51.2 PK	68.2	-17.0	1.45 H	107	67.3	-16.1
4	*5570.00	87.1 PK			1.45 H	107	50.4	36.7
5	*5570.00	78.3 AV			1.45 H	107	41.6	36.7
6	11140.00	54.1 PK	74.0	-19.9	3.41 H	198	57.6	-3.5
7	11140.00	44.0 AV	54.0	-10.0	3.41 H	198	47.5	-3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	2.96 V	307	75.9	-16.1
2	5460.00	49.8 AV	54.0	-4.2	2.96 V	307	65.9	-16.1
3	#5463.88	67.5 PK	68.2	-0.7	2.96 V	307	83.6	-16.1
4	*5570.00	98.3 PK			2.96 V	307	61.6	36.7
5	*5570.00	89.2 AV			2.96 V	307	52.5	36.7
6	11140.00	55.1 PK	74.0	-18.9	3.31 V	174	58.6	-3.5
7	11140.00	45.0 AV	54.0	-9.0	3.31 V	174	48.5	-3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

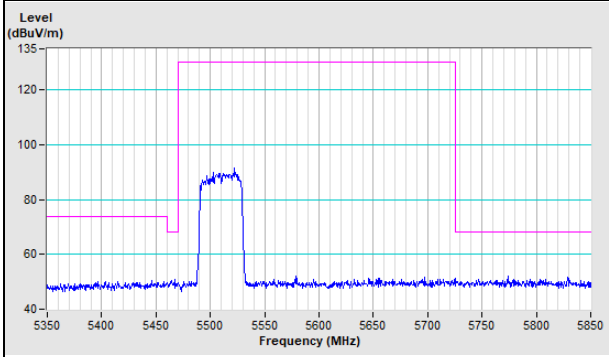
NSS 4 Plot of Band Edge

802.11ax (HE20) Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 140	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE20) Channel 149	
Horizontal (Peak)	Vertical (Peak)
	

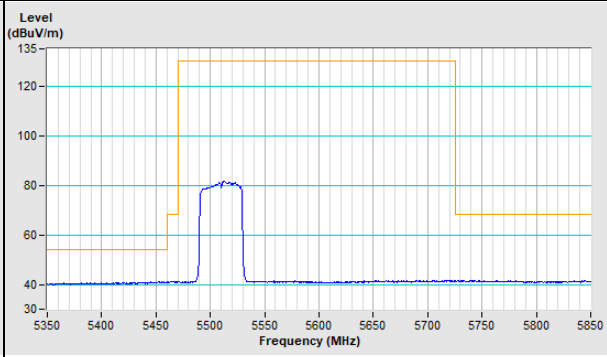
802.11ax (HE20) Channel 157	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE20) Channel 165	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE40) Channel 102

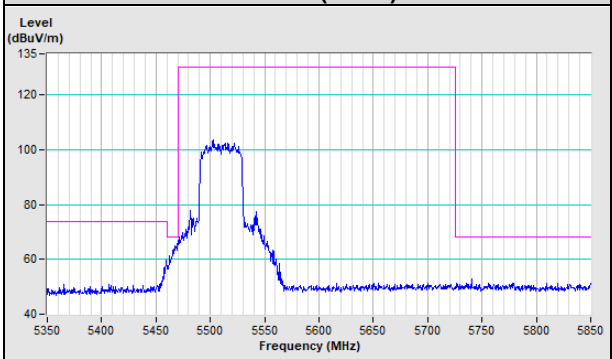
Horizontal (Peak)



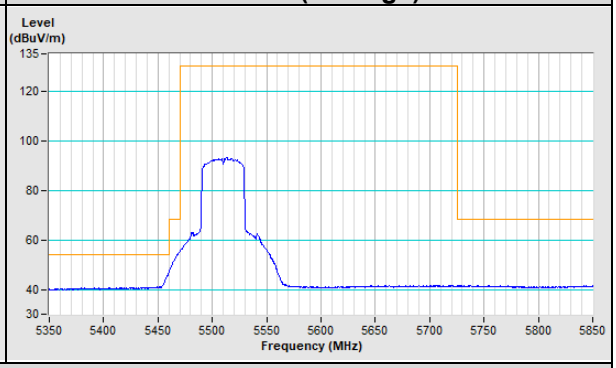
Horizontal (Average)



Vertical (Peak)

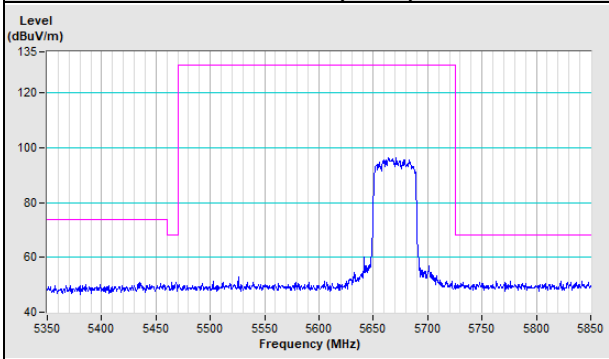


Vertical (Average)

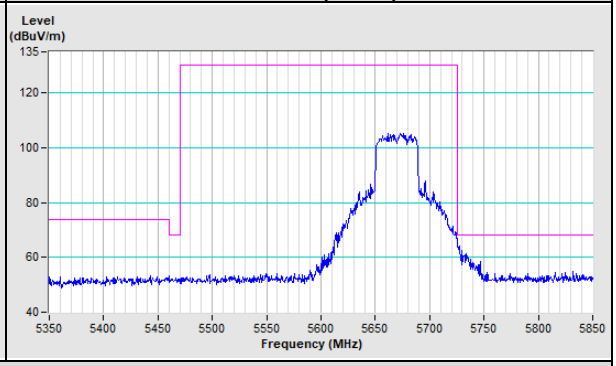


802.11ax (HE40) Channel 134

Horizontal (Peak)

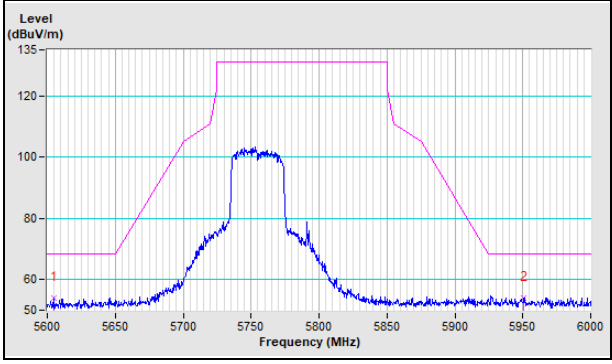


Vertical (Peak)

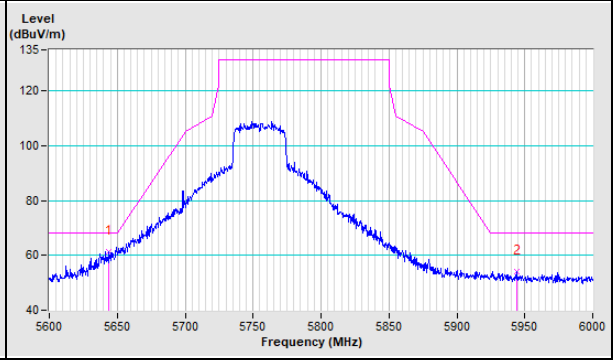


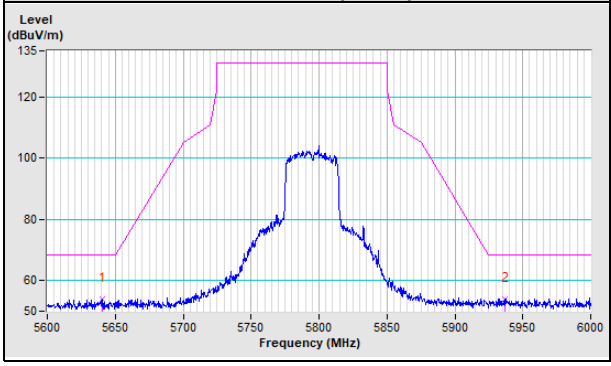
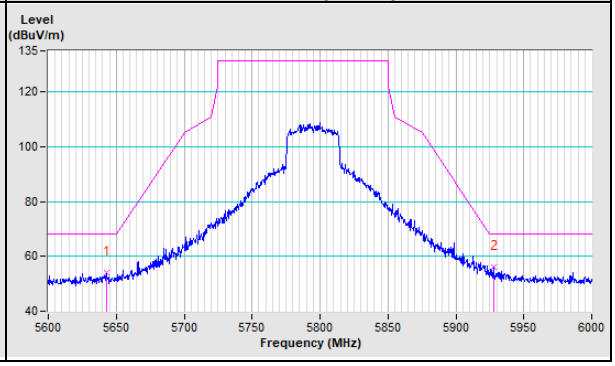
802.11ax (HE40) Channel 151

Horizontal (Peak)



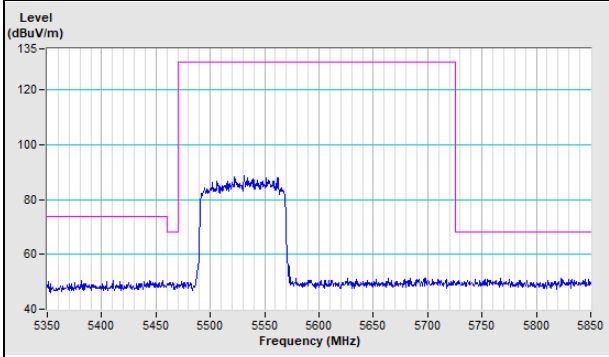
Vertical (Peak)



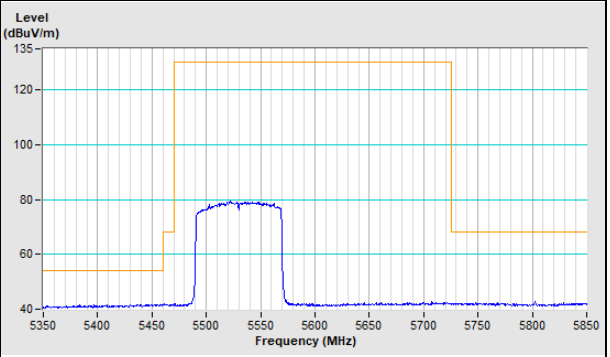
802.11ax (HE40) Channel 159	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE80) Channel 106

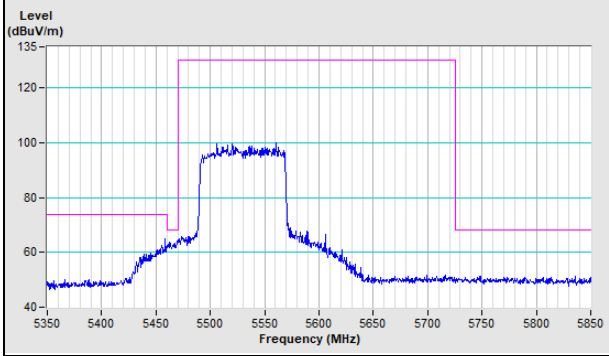
Horizontal (Peak)



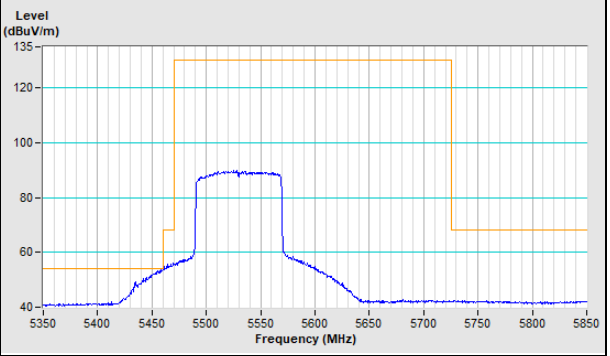
Horizontal (Average)



Vertical (Peak)

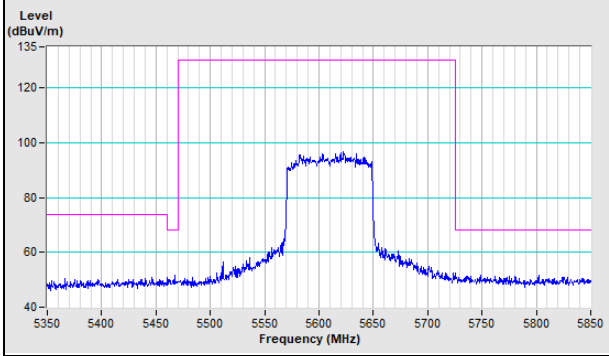


Vertical (Average)

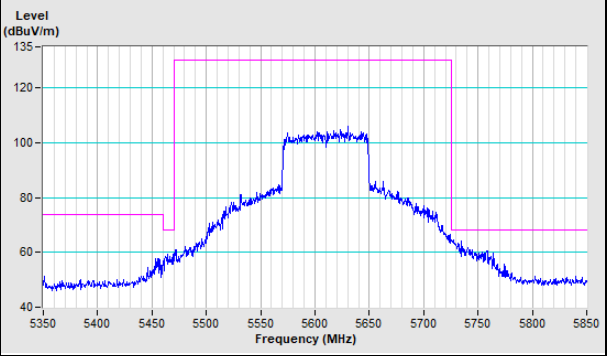


802.11ax (HE80) Channel 122

Horizontal (Peak)

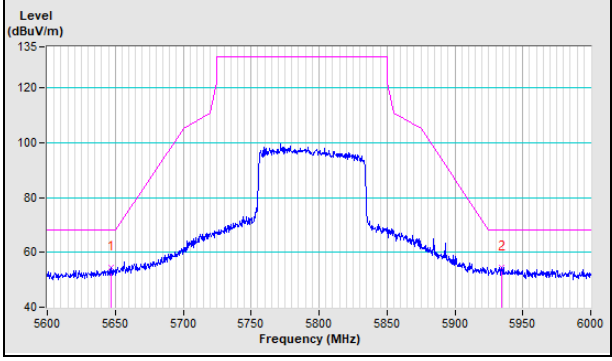


Vertical (Peak)

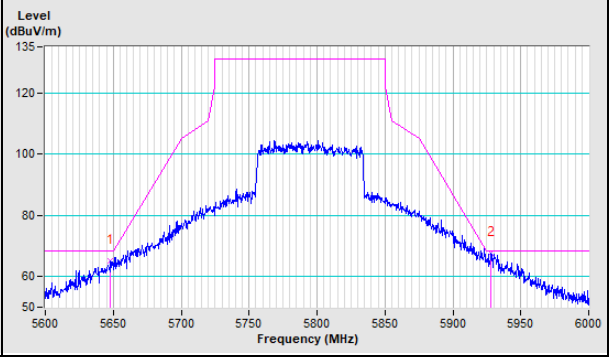


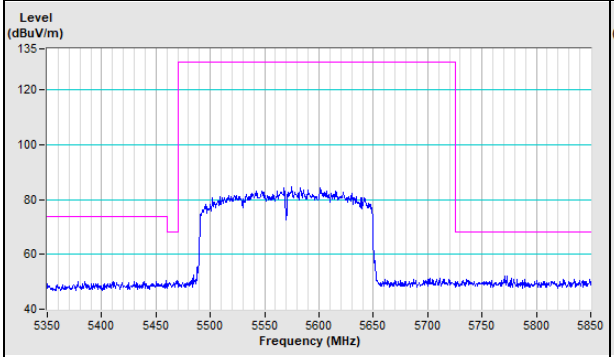
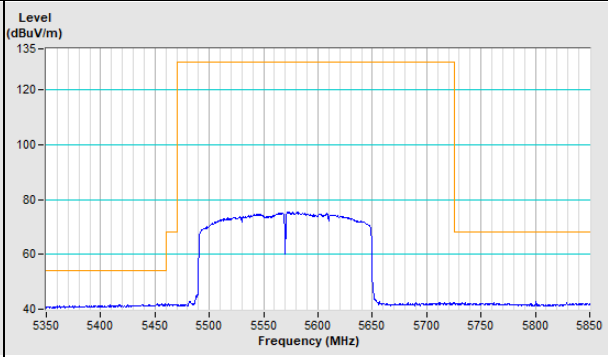
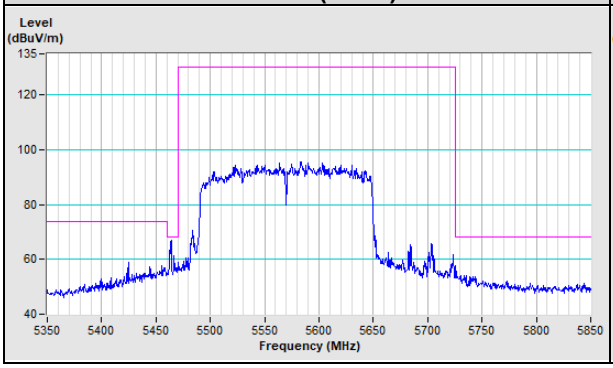
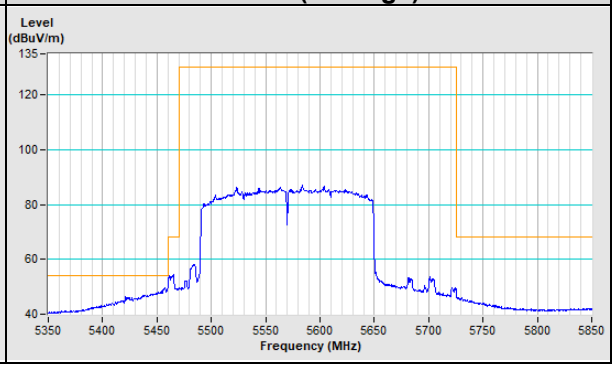
802.11ax (HE80) Channel 155

Horizontal (Peak)



Vertical (Peak)



802.11ax (HE160) Channel 114	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

RF Mode	TX 802.11a	Channel	CH 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	100.9 PK			1.64 H	24	63.9	37.0
2	*5720.00	92.9 AV			1.64 H	24	55.9	37.0
3	#5850.00	49.4 PK	68.2	-18.8	1.64 H	24	64.8	-15.4
4	11440.00	53.9 PK	74.0	-20.1	1.89 H	289	56.4	-2.5
5	11440.00	42.6 AV	54.0	-11.4	1.89 H	289	45.1	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	114.4 PK			2.68 V	4	77.4	37.0
2	*5720.00	105.8 AV			2.68 V	4	68.8	37.0
3	#5850.00	49.7 PK	68.2	-18.5	2.68 V	4	65.1	-15.4
4	11440.00	54.1 PK	74.0	-19.9	3.93 V	193	56.6	-2.5
5	**11440.00**	**43.0 AV**	**54.0**	**-11.0**	**3.93 V**	**193**	**45.5**	**-2.5**

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

NSS 1

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	106.5 PK			1.54 H	22	69.5	37.0
2	*5720.00	95.6 AV			1.54 H	22	58.6	37.0
3	#5850.00	48.8 PK	68.2	-19.4	1.54 H	22	64.2	-15.4
4	11440.00	51.8 PK	74.0	-22.2	1.80 H	286	54.3	-2.5
5	11440.00	41.9 AV	54.0	-12.1	1.80 H	286	44.4	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	117.9 PK			2.71 V	316	80.9	37.0
2	*5720.00	107.6 AV			2.71 V	316	70.6	37.0
3	#5850.00	48.9 PK	68.2	-19.3	2.71 V	316	64.3	-15.4
4	11440.00	52.1 PK	74.0	-21.9	3.74 V	198	54.6	-2.5
5	11440.00	42.0 AV	54.0	-12.0	3.74 V	198	44.5	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	104.0 PK			1.64 H	22	67.0	37.0
2	*5710.00	93.2 AV			1.64 H	22	56.2	37.0
3	#5850.00	49.8 PK	68.2	-18.4	1.64 H	22	65.2	-15.4
4	11420.00	53.7 PK	74.0	-20.3	2.85 H	333	56.2	-2.5
5	11420.00	42.4 AV	54.0	-11.6	2.85 H	333	44.9	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	116.3 PK			2.68 V	315	79.3	37.0
2	*5710.00	105.9 AV			2.68 V	315	68.9	37.0
3	#5850.00	50.1 PK	68.2	-18.1	2.68 V	315	65.5	-15.4
4	11420.00	54.3 PK	74.0	-19.7	2.06 V	46	56.8	-2.5
5	11420.00	42.6 AV	54.0	-11.4	2.06 V	46	45.1	-2.5

Remarks:

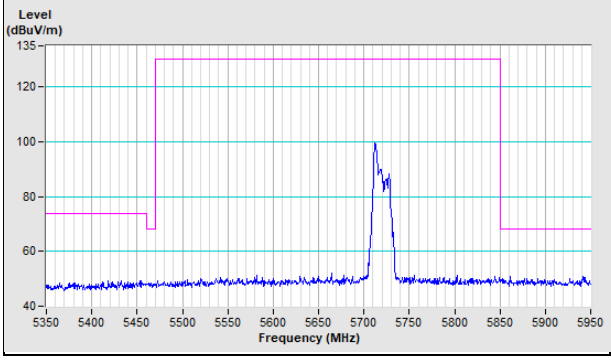
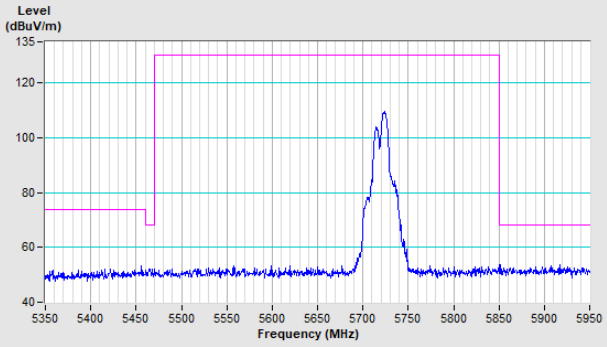
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

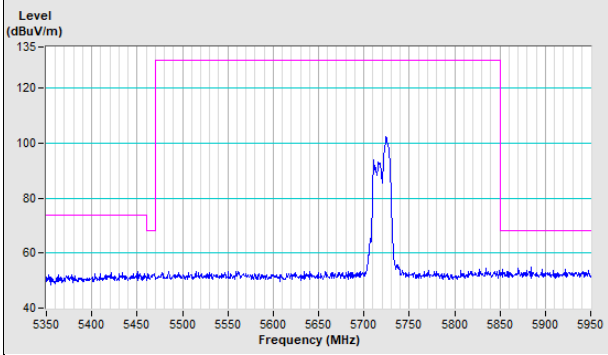
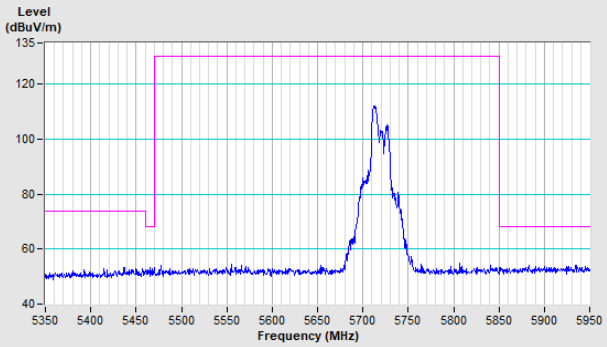
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	100.6 PK			1.63 H	22	63.6	37.0
2	*5690.00	89.7 AV			1.63 H	22	52.7	37.0
3	#5850.00	49.3 PK	68.2	-18.9	1.63 H	22	64.7	-15.4
4	11380.00	53.1 PK	74.0	-20.9	2.95 H	21	55.8	-2.7
5	11380.00	42.1 AV	54.0	-11.9	2.95 H	21	44.8	-2.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	113.2 PK			2.60 V	315	76.2	37.0
2	*5690.00	102.8 AV			2.60 V	315	65.8	37.0
3	#5850.00	50.0 PK	68.2	-18.2	2.60 V	315	65.4	-15.4
4	11380.00	53.2 PK	74.0	-20.8	3.24 V	283	55.9	-2.7
5	11380.00	42.8 AV	54.0	-11.2	3.24 V	283	45.5	-2.7

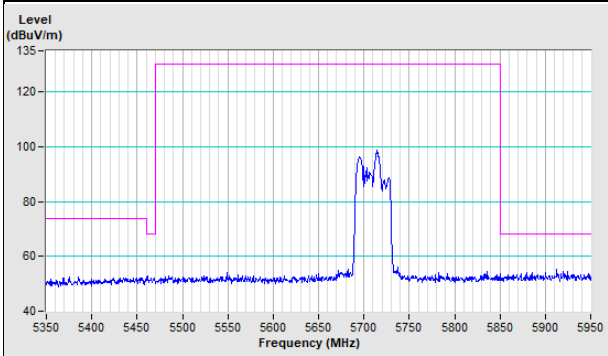
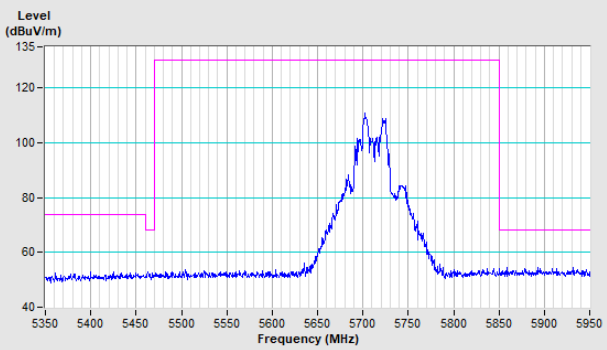
Remarks:

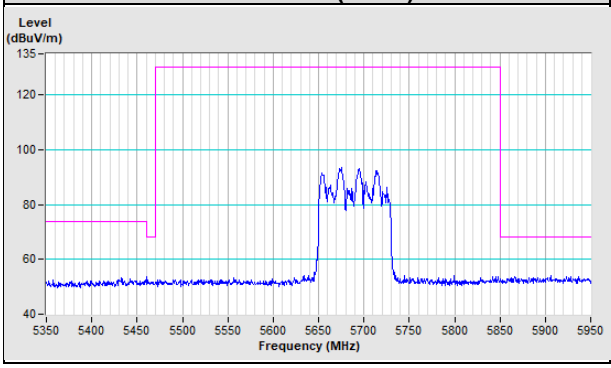
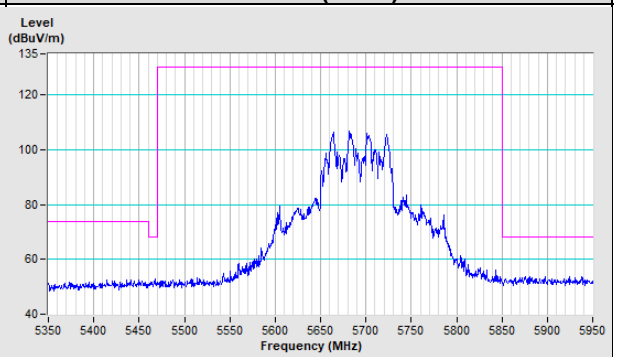
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

802.11a Channel 144	
Horizontal (Peak)	Vertical (Peak)
	

NSS 1

802.11ax (HE20) Channel 144	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE40) Channel 142	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (HE80) Channel 138	
Horizontal (Peak)	Vertical (Peak)
	

NSS 2

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	103.4 PK			1.63 H	22	66.4	37.0
2	*5720.00	93.7 AV			1.63 H	22	56.7	37.0
3	#5850.00	49.4 PK	68.2	-18.8	1.63 H	22	64.8	-15.4
4	11440.00	53.2 PK	74.0	-20.8	2.89 H	147	55.7	-2.5
5	11440.00	42.4 AV	54.0	-11.6	2.89 H	147	44.9	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	116.5 PK			2.60 V	307	79.5	37.0
2	*5720.00	106.1 AV			2.60 V	307	69.1	37.0
3	#5850.00	49.9 PK	68.2	-18.3	2.60 V	307	65.3	-15.4
4	11440.00	53.5 PK	74.0	-20.5	2.20 V	335	56.0	-2.5
5	11440.00	42.8 AV	54.0	-11.2	2.20 V	335	45.3	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	101.0 PK			1.62 H	22	64.0	37.0
2	*5710.00	90.4 AV			1.62 H	22	53.4	37.0
3	#5850.00	49.7 PK	68.2	-18.5	1.62 H	22	65.1	-15.4
4	11420.00	53.1 PK	74.0	-20.9	3.96 H	133	55.6	-2.5
5	11420.00	42.6 AV	54.0	-11.4	3.96 H	133	45.1	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	113.5 PK			2.55 V	315	76.5	37.0
2	*5710.00	102.9 AV			2.55 V	315	65.9	37.0
3	#5850.00	49.8 PK	68.2	-18.4	2.55 V	315	65.2	-15.4
4	11420.00	54.3 PK	74.0	-19.7	2.06 V	291	56.8	-2.5
5	**11420.00**	**42.9 AV**	**54.0**	**-11.1**	**2.06 V**	**291**	**45.4**	**-2.5**

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

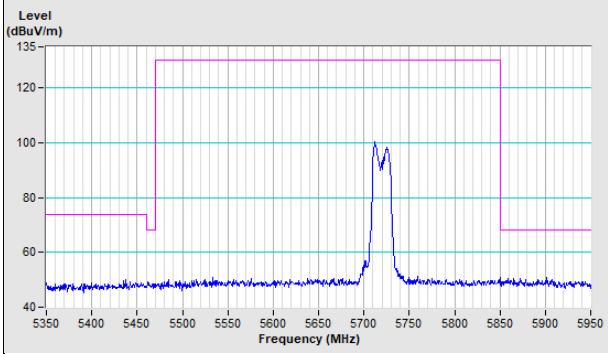
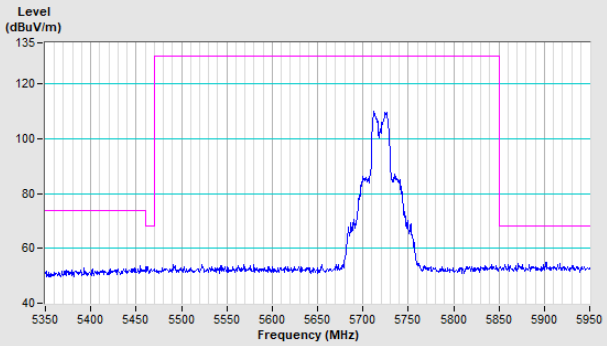
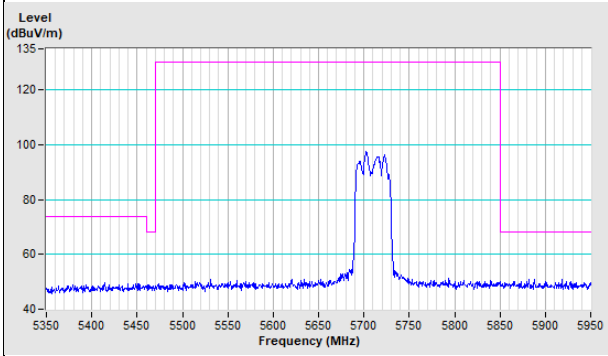
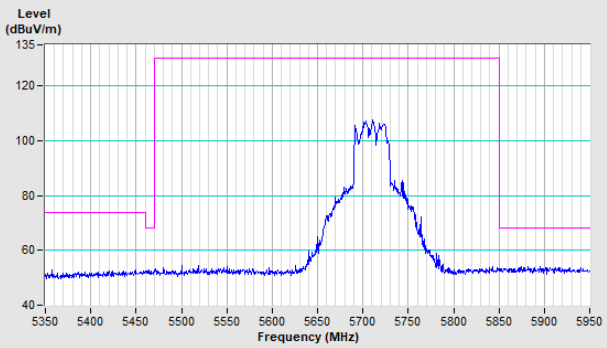
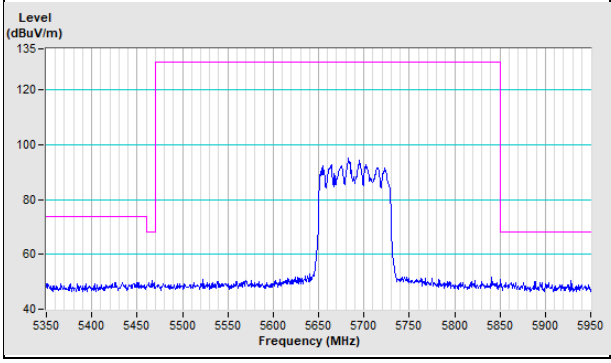
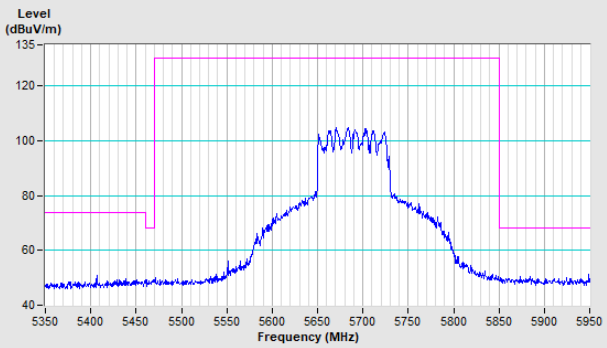
RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	98.3 PK			1.66 H	22	61.3	37.0
2	*5690.00	87.9 AV			1.66 H	22	50.9	37.0
3	#5850.00	49.7 PK	68.2	-18.5	1.66 H	22	65.1	-15.4
4	11380.00	52.9 PK	74.0	-21.1	1.80 H	33	55.6	-2.7
5	11380.00	42.4 AV	54.0	-11.6	1.80 H	33	45.1	-2.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	110.2 PK			2.60 V	317	73.2	37.0
2	*5690.00	100.0 AV			2.60 V	317	63.0	37.0
3	#5850.00	49.9 PK	68.2	-18.3	2.60 V	317	65.3	-15.4
4	11380.00	53.3 PK	74.0	-20.7	2.75 V	140	56.0	-2.7
5	11380.00	42.5 AV	54.0	-11.5	2.75 V	140	45.2	-2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

NSS2

802.11ax (HE20) Channel 144	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE40) Channel 142	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE80) Channel 138	
Horizontal (Peak)	Vertical (Peak)
	

NSS4

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	101.9 PK			1.64 H	22	64.9	37.0
2	*5720.00	91.7 AV			1.64 H	22	54.7	37.0
3	#5850.00	49.8 PK	68.2	-18.4	1.64 H	22	65.2	-15.4
4	11440.00	53.3 PK	74.0	-20.7	2.42 H	221	55.8	-2.5
5	11440.00	42.4 AV	54.0	-11.6	2.42 H	221	44.9	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	114.5 PK			2.59 V	307	77.5	37.0
2	*5720.00	104.2 AV			2.59 V	307	67.2	37.0
3	#5850.00	50.0 PK	68.2	-18.2	2.59 V	307	65.4	-15.4
4	11440.00	53.4 PK	74.0	-20.6	1.55 V	342	55.9	-2.5
5	11440.00	42.6 AV	54.0	-11.4	1.55 V	342	45.1	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	99.1 PK			1.62 H	21	62.1	37.0
2	*5710.00	88.6 AV			1.62 H	21	51.6	37.0
3	#5850.00	49.6 PK	68.2	-18.6	1.62 H	21	65.0	-15.4
4	11420.00	52.8 PK	74.0	-21.2	3.27 H	332	55.3	-2.5
5	11420.00	42.4 AV	54.0	-11.6	3.27 H	332	44.9	-2.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	111.6 PK			2.55 V	316	74.6	37.0
2	*5710.00	102.6 AV			2.55 V	316	65.6	37.0
3	#5850.00	49.8 PK	68.2	-18.4	2.55 V	316	65.2	-15.4
4	11420.00	53.0 PK	74.0	-21.0	1.05 V	234	55.5	-2.5
5	11420.00	42.6 AV	54.0	-11.4	1.05 V	234	45.1	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

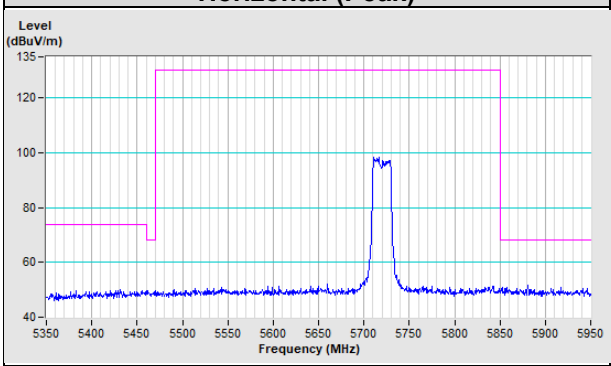
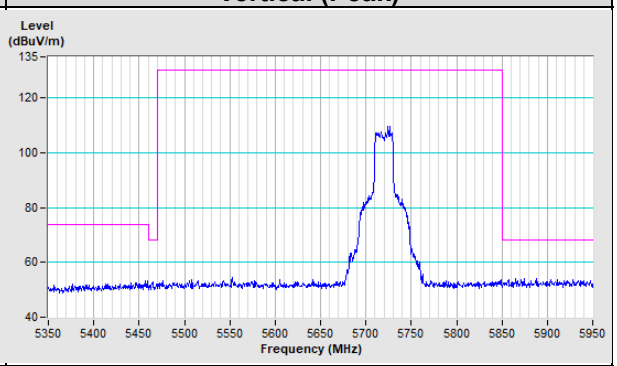
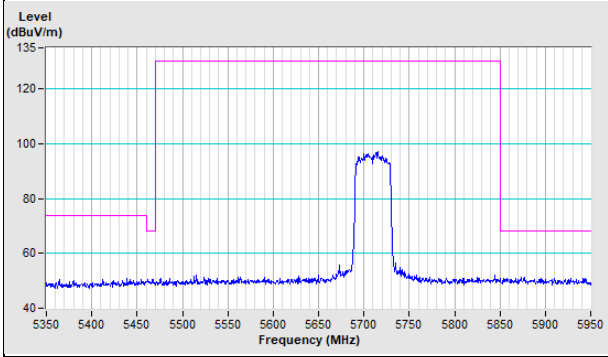
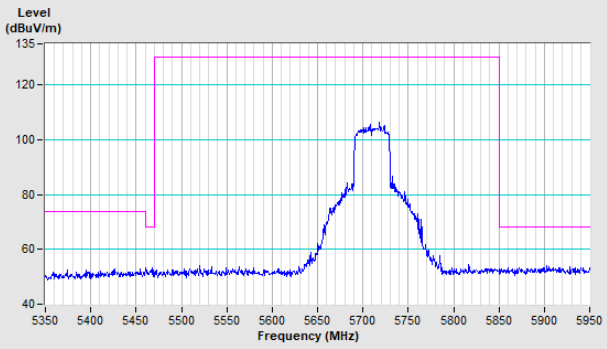
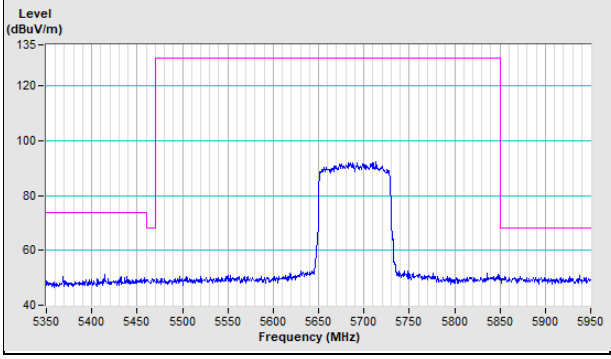
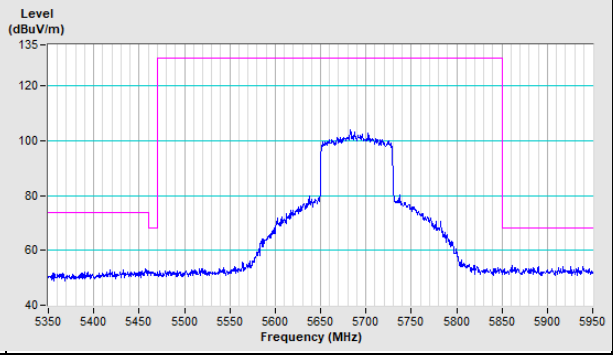
RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	96.3 PK			1.65 H	23	59.3	37.0
2	*5690.00	87.0 AV			1.65 H	23	50.0	37.0
3	#5850.00	49.5 PK	68.2	-18.7	1.65 H	23	64.9	-15.4
4	11380.00	53.7 PK	74.0	-20.3	2.89 H	352	56.4	-2.7
5	11380.00	42.4 AV	54.0	-11.6	2.89 H	352	45.1	-2.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	109.3 PK			2.64 V	316	72.3	37.0
2	*5690.00	100.5 AV			2.64 V	316	63.5	37.0
3	#5850.00	49.8 PK	68.2	-18.4	2.64 V	316	65.2	-15.4
4	11380.00	54.0 PK	74.0	-20.0	3.85 V	342	56.7	-2.7
5	11380.00	42.6 AV	54.0	-11.4	3.85 V	342	45.3	-2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

NSS 4

802.11ax (HE20) Channel 144	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE40) Channel 142	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE80) Channel 138	
Horizontal (Peak)	Vertical (Peak)
	

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@bureauveritas.com
Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

--- END ---