

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBFBE-WTW-P22031258-1  
**FCC ID:** I88DX4510-B1  
**Model No.:** DX4510-B1  
**Received Date:** 2022/4/14  
**Test Date:** 2022/4/15 ~ 2022/6/15  
**Issued Date:** 2022/7/29

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory  
**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**FCC Registration /** 723255 / TW2022  
**Designation Number:**

**Approved by:** \_\_\_\_\_, **Date:** 2022/7/29  
May Chen / Manager

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Prepared by : Cherry Chuo / Specialist

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## Release Control Record

Issue No.	Description	Date Issued
RFBFBE-WTW-P22031258-1	Original release.	2022/7/29

## 1 Certificate

**Product:** AX6000 WiFi6 VDSL2 Bonding Gateway

**Brand:** ZYXEL

**Test Model:** DX4510-B1

**Sample Status:** Engineering sample

**Applicant:** Zyxel Communications Corporation

**Test Date:** 2022/4/15 ~ 2022/6/15

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Measurement** ANSI C63.10-2013

**procedure:** 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	-	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	-	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 -8.79 dB at 0.15391 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.5 dB at 43.41, 62.52 MHz
15.407(b) (1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5146.65, 5148.17, 5148.27, 5350.00, 5460.00, 5465.56, 5468.95, 5931.13 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) 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	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 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	AX6000 WiFi6 VDSL2 Bonding Gateway
Brand	ZYXEL
Test Model	DX4510-B1
CPU Model No.	BCM63138UKFSBG
RF Chip Model No.	2.4G Chip Model: BCM6715X2 5G Chip Model: BCM6715X
FW Version	V5.17(ABYL.3)b2
Status of EUT	Engineering sample
Power Supply Rating	Refer to Note
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	5180 ~ 5250 MHz 5260 ~ 5320 MHz 5500 ~ 5720 MHz 5745 ~ 5825 MHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	<b>CDD Mode</b> 5180 ~ 5250 MHz : 769.183 mW (28.86 dBm) 5250 ~ 5320 MHz : 248.382 mW (23.95 dBm) 5500 ~ 5720 MHz : 237.878 mW (23.76 dBm) 5745 ~ 5825 MHz : 993.039 mW (29.97 dBm) <b>Beamforming Mode</b> 5180 ~ 5250 MHz : 708.866 mW (28.51 dBm) 5250 ~ 5320 MHz : 181.289 mW (22.58 dBm) 5500 ~ 5720 MHz : 237.878 mW (23.76 dBm) 5745 ~ 5825 MHz : 902.535 mW (29.55 dBm)
EUT Category	Indoor Access Point
Accessory Device	-AC Adapter x1, Brand: MNC, Model: MAUS-1202503000, DC Cord: Non-shielded, 1.5m -Ethernet Cable x1, Non-shielded, 1.8m -DSL Cable x1, Non-shielded, 1.8m

Note:

1. The EUT power needs to be supplied from a power adapter, the information is as below table:

Brand	Model	Specification
MNC	MAUS-1202503000	AC Input : 100-240V, 50/60Hz, 0.8A DC Output : 12V, 2.5A DC Output Cable : Unshielded, 1.5m

2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	WLAN 5GHz

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

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.

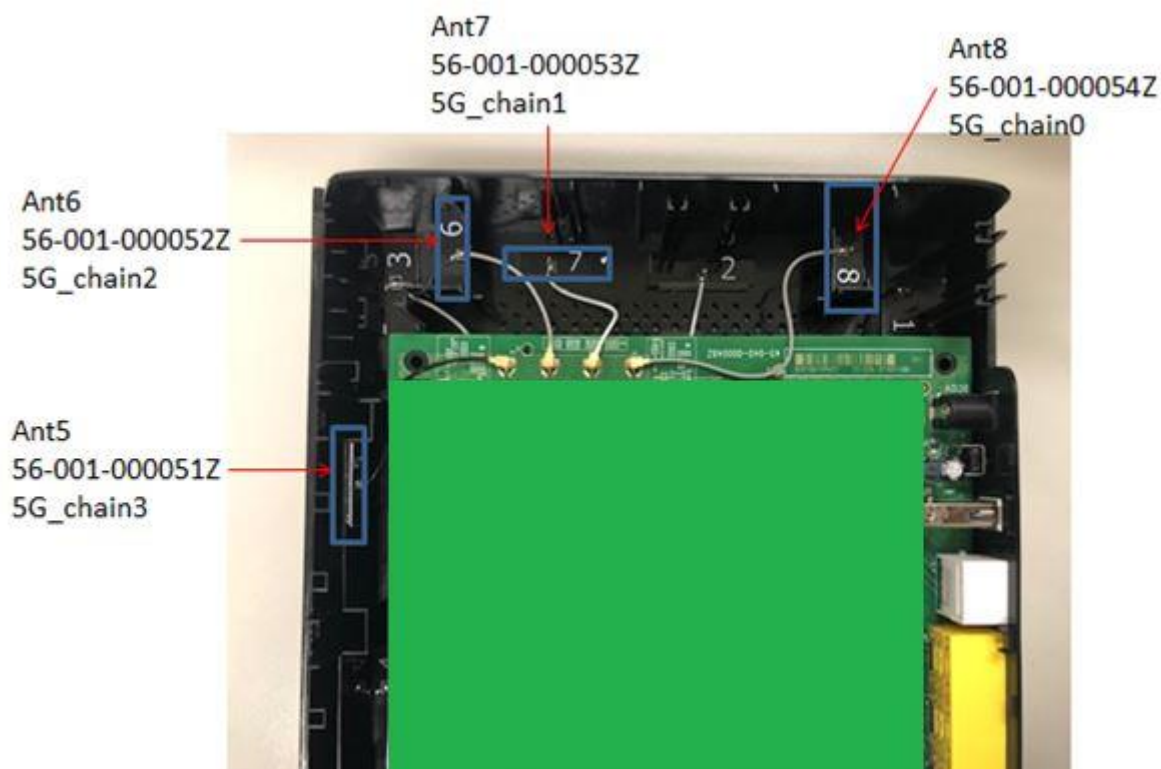
### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

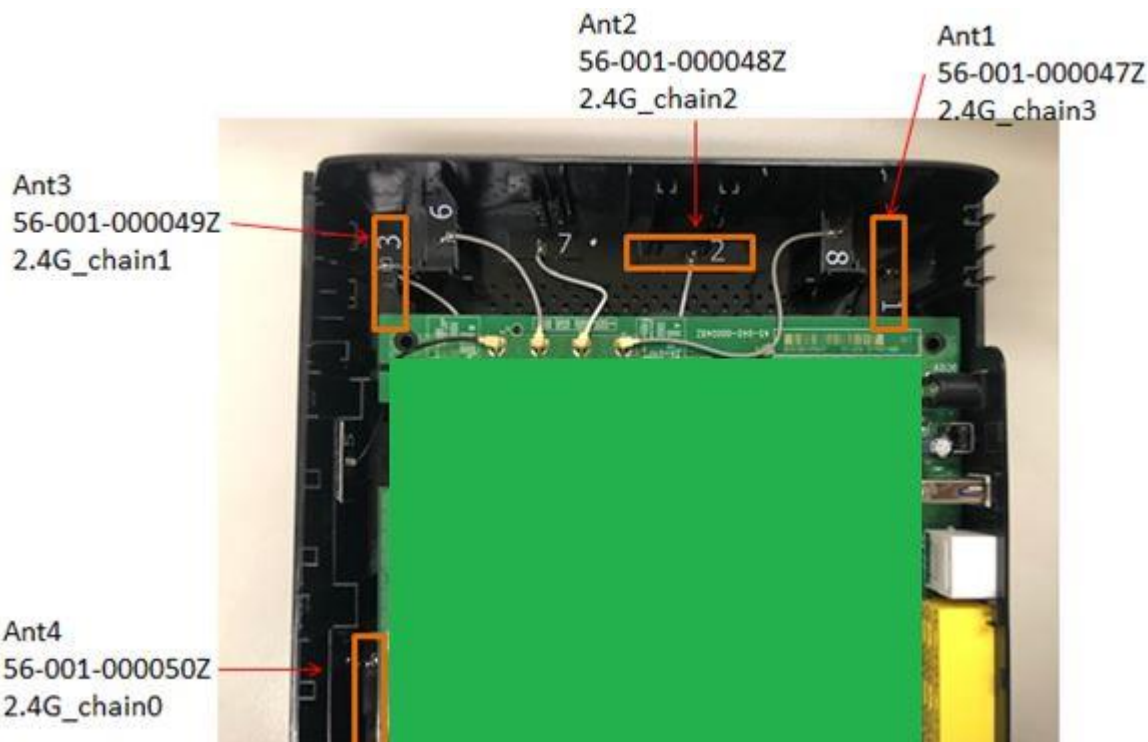
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type	*Cable Length (mm)
ANT1	2.4G_Chain 3	WHAYU	56-001-000047Z	2.7	2.4~2.4835	Dipole	ipex(MHF)	313
ANT2	2.4G_Chain 2	WHAYU	56-001-000048Z	2.31	2.4~2.4835	Dipole	ipex(MHF)	258
ANT3	2.4G_Chain 1	WHAYU	56-001-000049Z	2.57	2.4~2.4835	Dipole	ipex(MHF)	263
ANT4	2.4G_Chain 0	WHAYU	56-001-000050Z	2.53	2.4~2.4835	Dipole	ipex(MHF)	145
ANT5	5G_Chain 3	WHAYU	56-001-000051Z	2.6 2.92 3.31 3.16	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	Dipole	ipex(MHF)	59
ANT6	5G_Chain 2	WHAYU	56-001-000052Z	2.99 3.22 3.13 2.18	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	Dipole	ipex(MHF)	40
ANT7	5G_Chain 1	WHAYU	56-001-000053Z	3.48 3.09 3.79 2.46	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	Dipole	ipex(MHF)	45
ANT8	5G_Chain 0	WHAYU	56-001-000054Z	0.63 2.62 2.61 3.73	5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.85	Dipole	ipex(MHF)	80

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

\* Antenna port location







2. The directional antenna gain, please refer to the following table:

Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Antenna Connector
5.15~5.25	7.09	Dipole	ipex(MHF)
5.25~5.35	7.39		
5.47~5.725	6.21		
5.725~5.85	6.42		

Note: Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement. More detailed information, please refer to antenna specification.

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX

Note:

- All of modulation mode support beamforming function except 802.11a modulation mode.
- 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.
- 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, 160 MHz) and 802.11ax mode for 20 MHz (40MHz, 80MHz, 160 MHz), 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

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

Channel	Frequency
50	5250 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	138	5690 MHz
122	5610 MHz		

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

Channel	Frequency
114	5570 MHz

**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 Power Setting

Power Setting								
Channel	802.11a CDD	802.11ac (VHT20) CDD	Channel	802.11ac (VHT40) CDD	Channel	802.11ac (VHT80) CDD	Channel	802.11ac (VHT160) CDD
36	81	77	38	56	42	56	50	56
40	90	88	46	80	58	58	114	64
48	90	94	54	68	106	64		
52	63	65	62	58	122	70		
60	63	65	102	68	138	70		
64	63	65	110	72	155	83		
100	67	69	134	72				
116	67	69	142	72				
140	67	69	151	93				
144	67	69	159	93				
149	94	96						
157	94	96						
165	94	96						

Power Setting							
Channel	802.11ax (HE20) CDD	Channel	802.11ax (HE40) CDD	Channel	802.11ax (HE80) CDD	Channel	802.11ax (HE160) CDD
36	77	38	56	42	56	50	56
40	88	46	80	58	58	114	64
48	94	54	72	106	64		
52	65	62	58	122	70		
60	65	102	68	138	70		
64	65	110	72	155	83		
100	69	134	72				
116	69	142	72				
140	69	151	95				
144	69	159	95				
149	98						
157	98						
165	98						

Power Setting							
Channel	802.11ac (VHT20) Beamforming	Channel	802.11ac (VHT40) Beamforming	Channel	802.11ac (VHT80) Beamforming	Channel	802.11ac (VHT160) Beamforming
36	77	38	56	42	56	50	56
40	88	46	80	58	58	114	64
48	94	54	68	106	64		
52	65	62	58	122	70		
60	65	102	68	138	70		
64	65	110	72	155	83		
100	69	134	72				
116	69	142	72				
140	69	151	93				
144	69	159	93				
149	96						
157	96						
165	96						



Power Setting							
Channel	802.11ax (HE20) Beamforming	Channel	802.11ax (HE40) Beamforming	Channel	802.11ax (HE80) Beamforming	Channel	802.11ax (HE160) Beamforming
36	77	38	56	42	56	50	56
40	88	46	80	58	58	114	64
48	94	54	68	106	64		
52	65	62	58	122	70		
60	65	102	68	138	70		
64	65	110	72	155	83		
100	69	134	72				
116	69	142	72				
140	69	151	93				
144	69	159	93				
149	96						
157	96						
165	96						

### 3.5 Test Mode Applicability and Tested Channel Detail

Worst Case:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
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Note: Partial RU (resource unit) configurations not supported.

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11ax (HE20)	CDD	149	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE20)	CDD	149	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	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
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	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	50, 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
Occupied Bandwidth / 26 dB Bandwidth / Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s

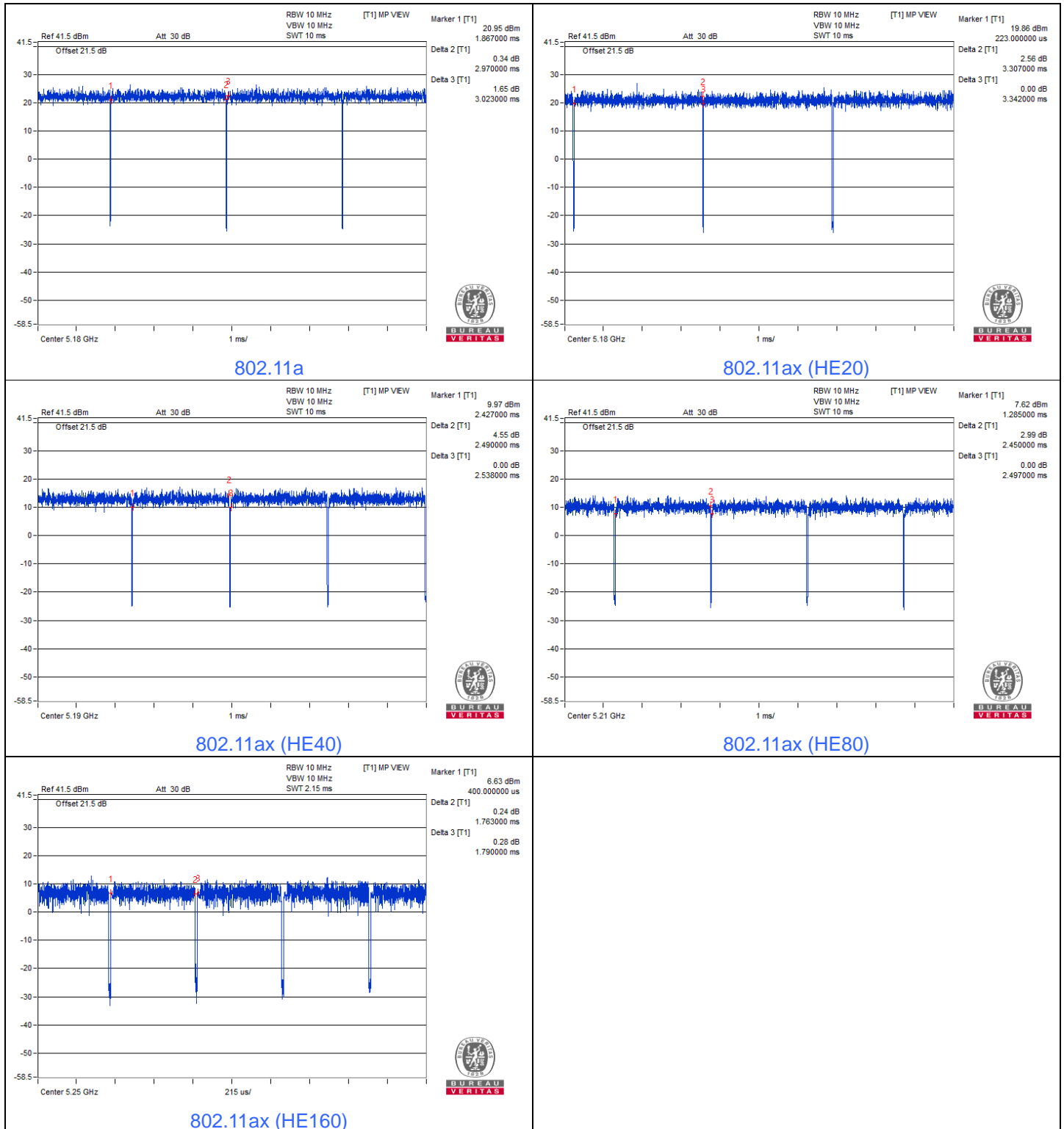


	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	155	BPSK	MCS0
Frequency Stability	802.11a	-	36	Un-modulation	-

### 3.6 Duty Cycle of Test Signal

Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.  
 Duty cycle of test signal is  $< 98\%$ , duty factor shall be considered.

- 802.11a:** Duty cycle =  $2.97 \text{ ms} / 3.023 \text{ ms} \times 100\% = 98.2\%$
- 802.11ax (HE20):** Duty cycle =  $3.307 \text{ ms} / 3.342 \text{ ms} \times 100\% = 99.0\%$
- 802.11ax (HE40):** Duty cycle =  $2.49 \text{ ms} / 2.538 \text{ ms} \times 100\% = 98.1\%$
- 802.11ax (HE80):** Duty cycle =  $2.45 \text{ ms} / 2.497 \text{ ms} \times 100\% = 98.1\%$
- 802.11ax (HE160):** Duty cycle =  $1.763 \text{ ms} / 1.79 \text{ ms} \times 100\% = 98.5\%$

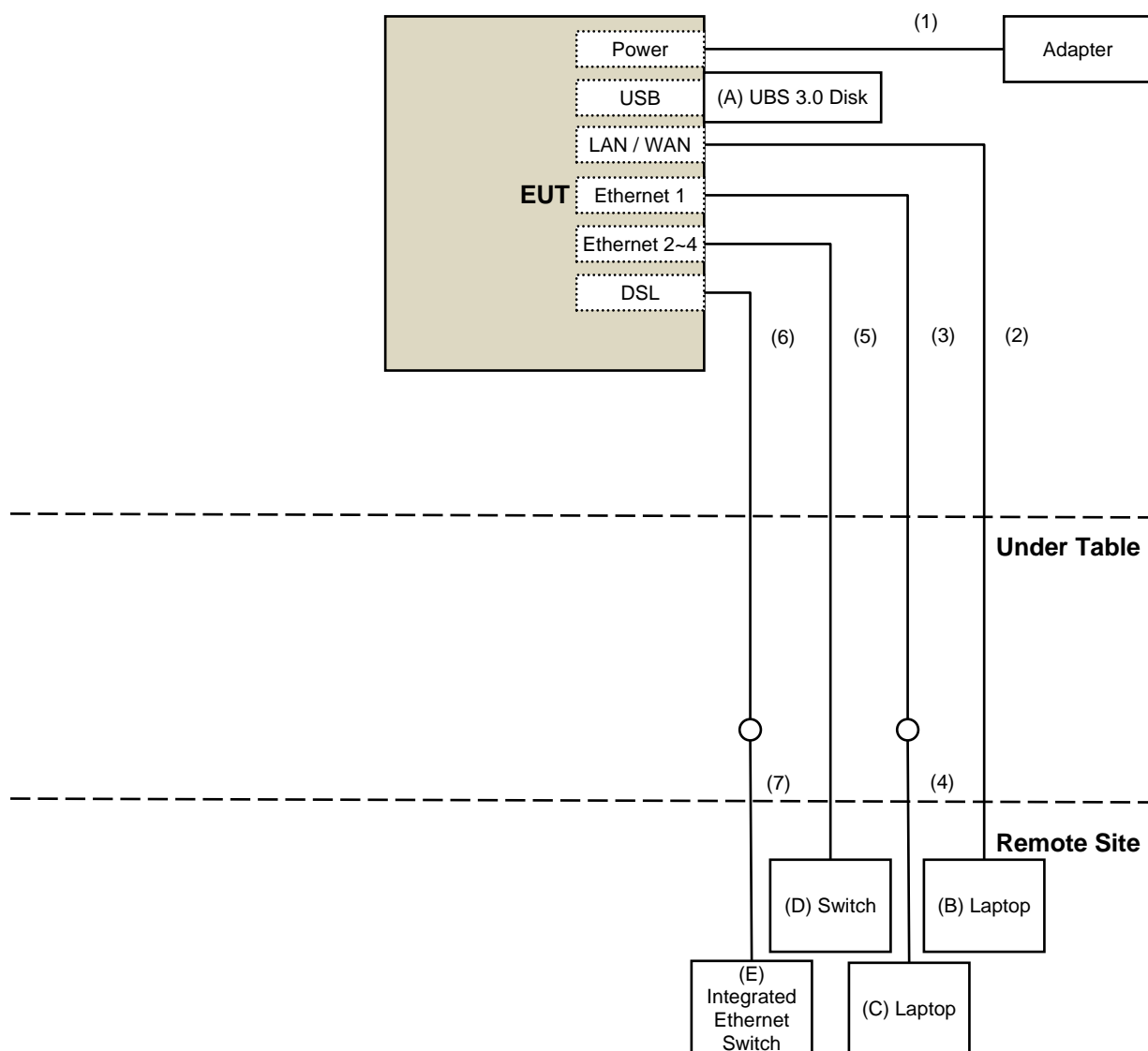




### 3.7 Test Program Used and Operation Descriptions

Controlling software (accessMTool\_3\_2\_1\_0.msi) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.8 Connection Diagram of EUT and Peripheral Devices



### 3.9 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	UBS 3.0 Disk	SanDisk	BM181225896Z	N/A	N/A	Provided by Lab
B	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab
C	Laptop	DELL	PP36S	25733582128	N/A	Provided by Lab
D	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
E	Integrated Ethernet Switch	ZYXEL	IES-1000	S4Z3112558	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	No	0	Supplied by applicant
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	Ethernet Cable	1	1.8	No	0	Supplied by applicant
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	RJ-45 Cable	3	10	No	0	Provided by Lab
6	DSL Cable	1	1.8	No	0	Supplied by applicant
7	RJ-11 Cable	1	10	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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/6/15

### 4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1726434	2021/6/21	2022/6/20
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/6/15

### 4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

### 4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

### 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 GOOD WILL	6905S	1991551	N/A	N/A
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/1/14	2023/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/6/15

#### 4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohms Terminator	50	3	2021/10/27	2022/10/26
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2021/10/13	2022/10/12

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2022/6/5

#### 4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2021/9/23	2022/9/22
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2021/7/6	2022/7/5
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	2021/10/19	2022/10/18
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2022/3/8	2023/3/7
		966-3-2	2022/2/26	2023/2/25
		966-3-3	2022/2/26	2023/2/25
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-361	2021/10/26	2022/10/25

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/5/27

#### 4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA9120-D	9120D-406	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2021/7/6	2022/7/5
Pre_Amplifier EMCI	EMC12630SE	980384	2022/1/10	2023/1/9
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable EMCI	EMC104-SM-SM-6000	210201	2021/5/13	2022/5/12
			2022/5/10	2023/5/9
RF Cable-Frequency Range : 1- 26.5GHz EMCI	EMC104-SM-SM-1200	160922	2021/12/24	2022/12/23
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180504	2021/4/26	2022/4/25
			2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180601	2021/6/8	2022/6/7
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
	EMC104-SM-SM-6000	210704	2021/11/9	2022/11/8
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9030A	MY54490679	2021/7/9	2022/7/8

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/4/15 ~ 2022/6/5

## 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 $\leq$ 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  $\geq 40$  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

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) <sup>*1</sup> PK: 10 (dBm/MHz) <sup>*2</sup> PK: 15.6 (dBm/MHz) <sup>*3</sup> PK: 27 (dBm/MHz) <sup>*4</sup>	PK: 68.2 (dBµV/m) <sup>*1</sup> PK: 105.2 (dBµV/m) <sup>*2</sup> PK: 110.8 (dBµV/m) <sup>*3</sup> PK: 122.2 (dBµV/m) <sup>*4</sup>
*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.	

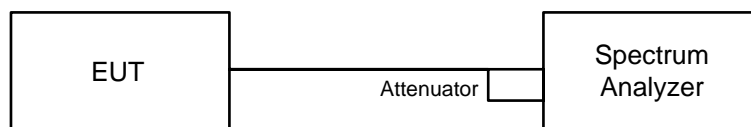
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 26 dB Bandwidth

#### 6.1.1 Test Setup

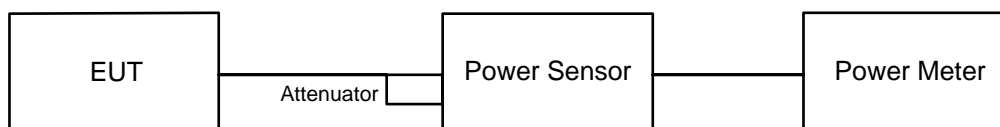


#### 6.1.2 Test Procedure

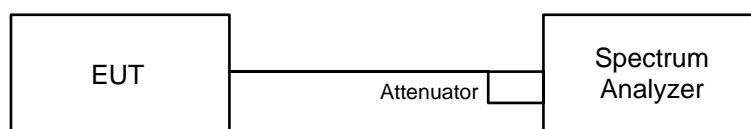
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement 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:

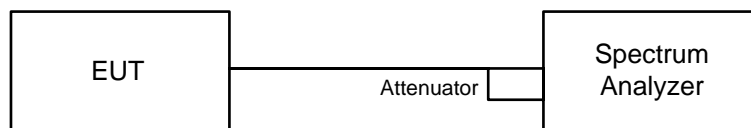
##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥  $[2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

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-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq$  RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

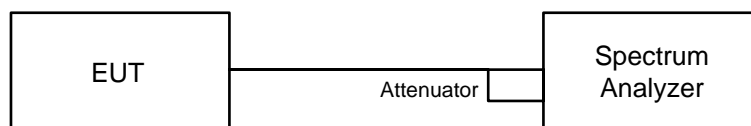
#### For specified measurement bandwidth 500 kHz:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- 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  $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq$  RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

## 6.4 6 dB Bandwidth

### 6.4.1 Test Setup

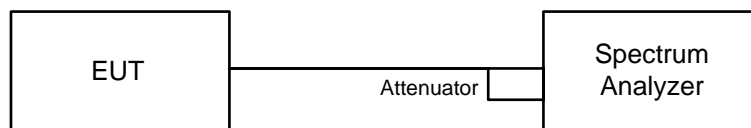


### 6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq$  3 x RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

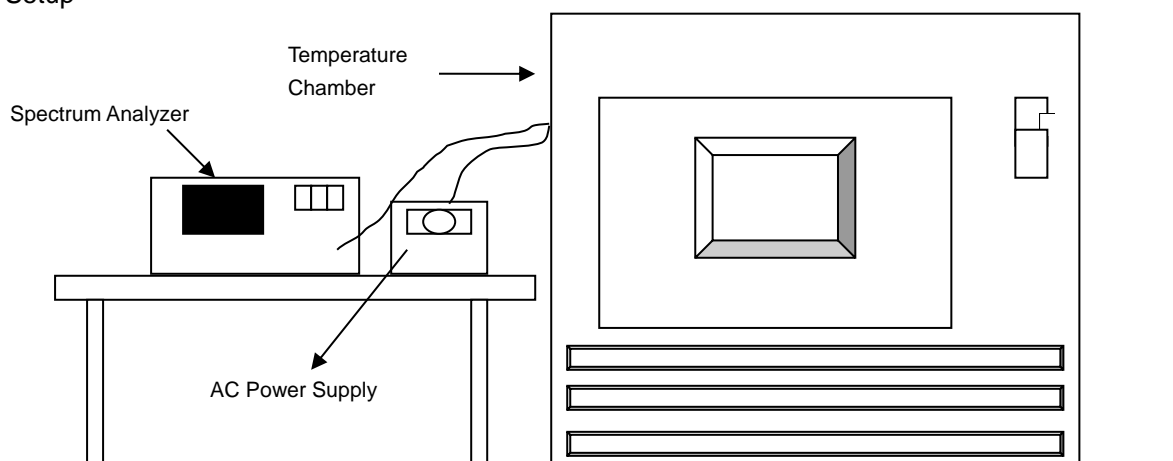


### 6.5.2 Test Procedure

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

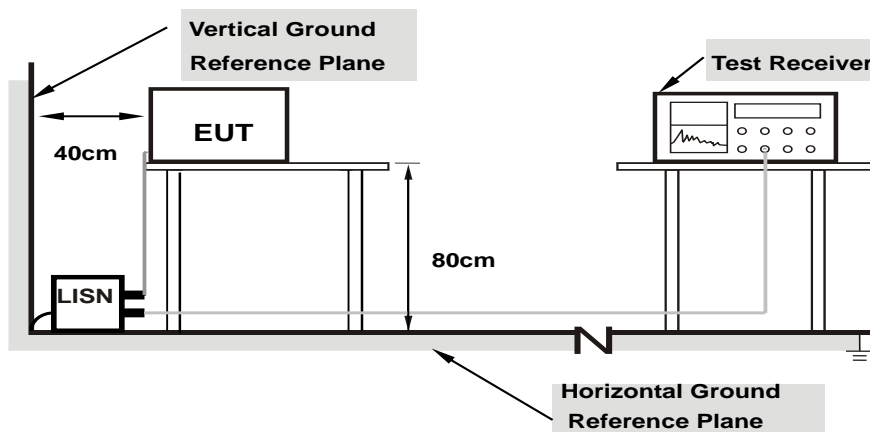


### 6.6.2 Test Procedure

- 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

- The EUT was 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

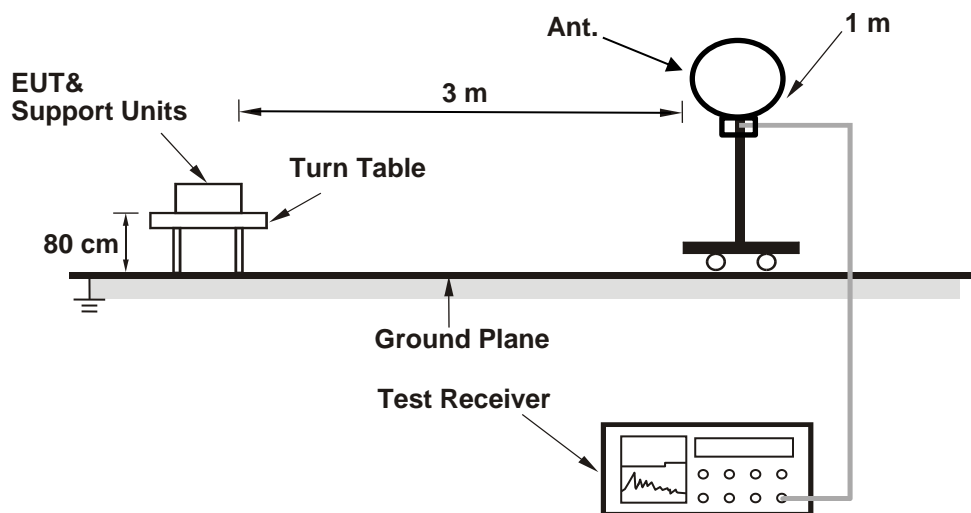
**Note:**

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.

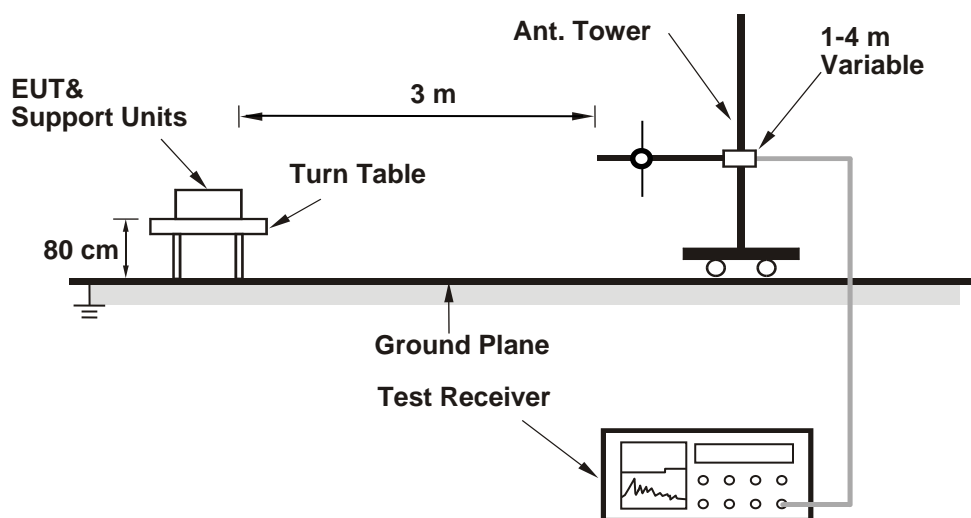
## 6.8 Unwanted Emissions below 1 GHz

### 6.8.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



## 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.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. 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.

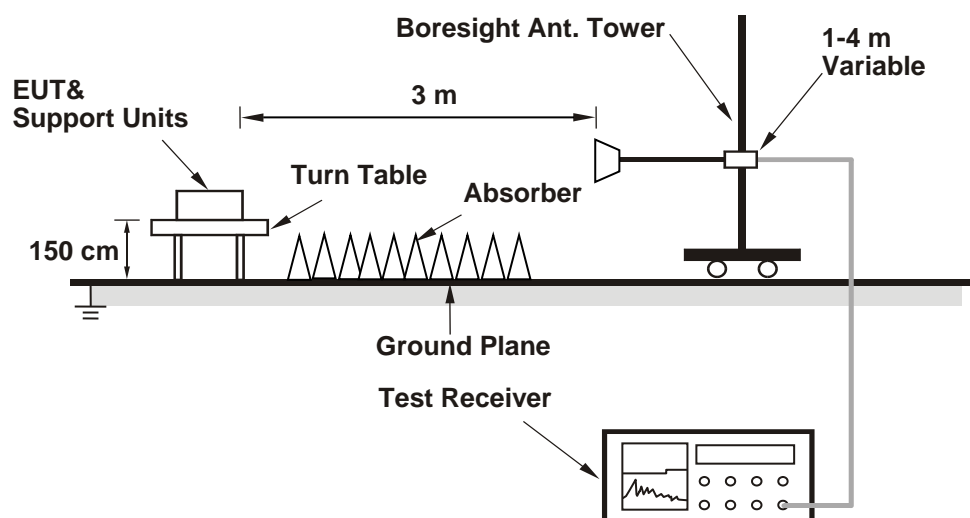
#### Notes:

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

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

- 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.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- 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:	Eric Peng
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#### 802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.93	21.84	21.60	21.85
60	5300	21.82	21.87	21.69	21.75
64	5320	21.92	21.94	21.89	21.85
100	5500	21.96	22.00	21.73	21.56
116	5580	21.87	21.94	21.66	21.57
140	5700	21.75	22.07	21.62	21.70
144 (U-NII-2C)	5720	15.98	15.96	15.74	15.84

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.60	24.34 > 24
60	5300	21.69	24.36 > 24
64	5320	21.85	24.39 > 24
100	5500	21.56	24.33 > 24
116	5580	21.57	24.33 > 24
140	5700	21.62	24.34 > 24
144 (U-NII-2C)	5720	15.74	22.97 < 24

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

**802.11ax (HE20)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.95	22.04	21.92	22.00
60	5300	22.03	21.95	21.86	21.78
64	5320	22.25	21.77	21.73	21.93
100	5500	21.92	21.66	21.91	21.85
116	5580	21.98	22.03	21.96	21.99
140	5700	21.81	22.01	22.03	21.84
144 (U-NII-2C)	5720	15.93	15.98	15.97	16.05

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.92	24.4 > 24
60	5300	21.78	24.38 > 24
64	5320	21.73	24.37 > 24
100	5500	21.66	24.35 > 24
116	5580	21.96	24.41 > 24
140	5700	21.81	24.38 > 24
144 (U-NII-2C)	5720	15.93	23.02 < 24

Note: For U-NII-2A, 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
54	5270	42.17	42.08	41.95	41.79
62	5310	42.06	41.98	42.14	42.16
102	5510	42.13	42.10	42.21	42.21
110	5550	42.25	42.12	42.18	42.44
134	5670	42.24	42.09	42.08	42.17
142 (U-NII-2C)	5710	36.24	36.28	36.03	36.11

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.79	27.21 > 24
62	5310	41.98	27.23 > 24
102	5510	42.10	27.24 > 24
110	5550	42.12	27.24 > 24
134	5670	42.08	27.24 > 24
142 (U-NII-2C)	5710	36.03	26.56 > 24

Note: For U-NII-2A, 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
58	5290	82.43	83.08	82.65	82.81
106	5530	83.18	82.86	83.29	82.56
122	5610	83.30	82.85	82.78	82.92
138 (U-NII-2C)	5690	76.73	76.63	76.43	76.62

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
58	5290	82.43	30.16	> 24
106	5530	82.56	30.16	> 24
122	5610	82.78	30.17	> 24
138 (U-NII-2C)	5690	76.43	29.83	> 24

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

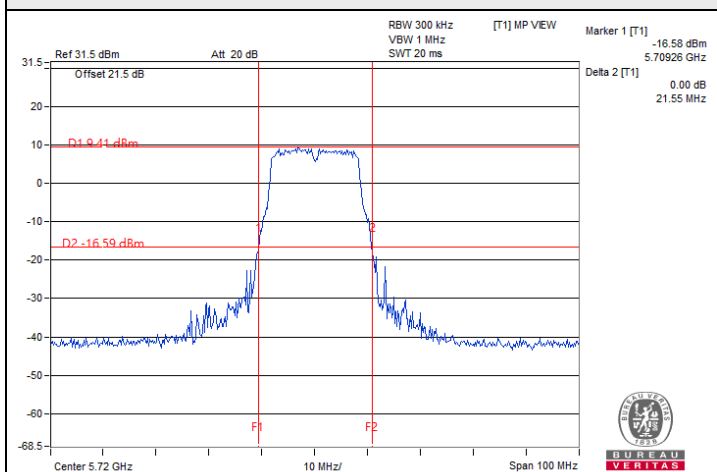
**802.11ax (HE160)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A)	5250	85.46	83.78	84.59	84.08
114	5570	262.26	224.59	235.85	232.90

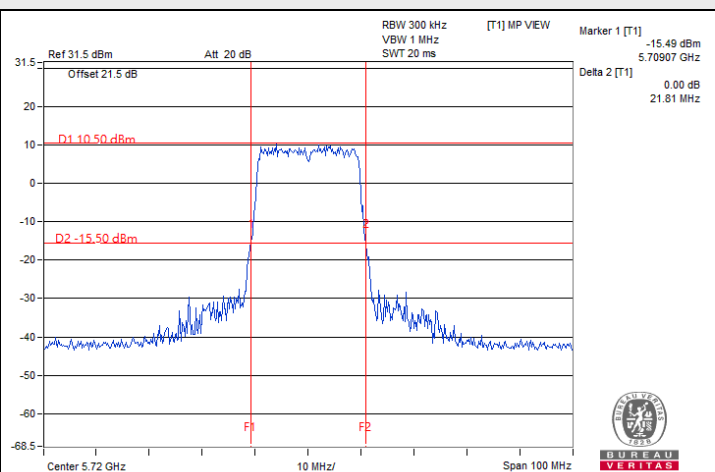
Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
50 (U-NII-2A)	5250	83.78	30.23	> 24
114	5570	224.59	34.51	> 24

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

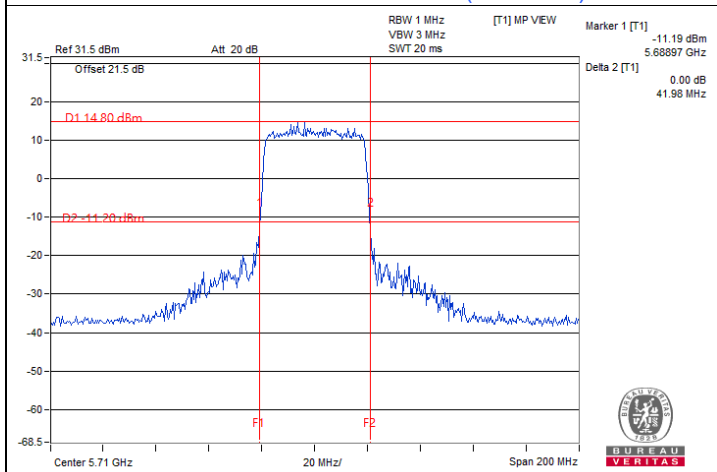
### Spectrum Plot of Minimum Value



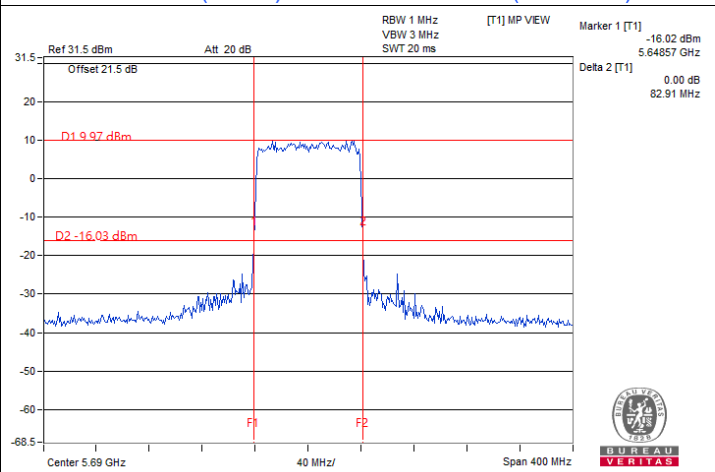
802.11a / Chain2 : CH 144 (U-NII-2C)



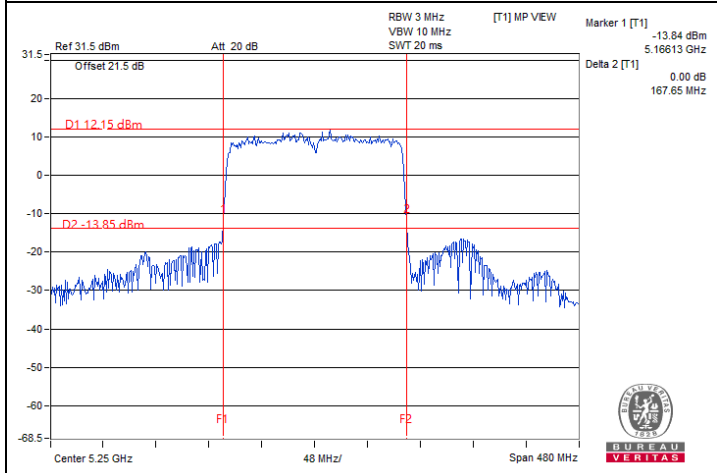
802.11ax (HE20) / Chain0 : CH 144 (U-NII-2C)



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



802.11ax (HE80) / Chain2 : CH 138 (U-NII-2C)



802.11ax (HE160) / Chain1 : CH 50 (U-NII-2A)

- 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:	Eric Peng
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### 802.11a CDD

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				
36	5180	20.81	20.65	20.57	20.47	462.103	26.65	30	Pass
40	5200	22.53	22.56	22.78	22.94	745.822	28.73	30	Pass
48	5240	23.18	22.72	22.75	22.69	769.183	28.86	30	Pass
52	5260	16.64	16.36	16.48	16.45	178.003	22.50	24	Pass
60	5300	16.61	16.29	16.34	16.41	175.179	22.43	24	Pass
64	5320	16.58	16.32	16.38	16.45	175.962	22.45	24	Pass
100	5500	17.63	17.48	17.33	17.36	222.444	23.47	24	Pass
116	5580	17.68	17.42	17.42	17.33	223.105	23.49	24	Pass
140	5700	17.74	17.39	17.47	17.35	224.429	23.51	24	Pass
*144 (U-NII-2C)	5720	16.94	16.72	17.05	16.79	194.872	22.90	22.97	Pass
*144 (U-NII-3)	5720	10.65	10.60	10.79	10.38	46.005	16.63	30	Pass
149	5745	24.03	23.78	23.81	23.74	968.739	29.86	30	Pass
157	5785	24.16	23.83	23.75	23.84	981.402	29.92	30	Pass
165	5825	24.09	23.77	23.78	23.86	976.682	29.90	30	Pass

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11ac (VHT20) CDD**

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				
36	5180	19.27	19.19	19.14	19.21	332.916	25.22	30	Pass
40	5200	21.43	21.47	21.51	21.52	562.762	27.50	30	Pass
48	5240	22.13	22.42	22.34	22.59	690.835	28.39	30	Pass
52	5260	16.37	16.21	16.42	16.61	174.801	22.43	24	Pass
60	5300	16.33	16.29	16.48	16.53	174.955	22.43	24	Pass
64	5320	16.32	16.26	16.40	16.51	173.545	22.39	24	Pass
100	5500	17.51	17.43	17.53	17.59	225.734	23.54	24	Pass
116	5580	17.52	17.29	17.62	17.68	226.497	23.55	24	Pass
140	5700	17.49	17.34	17.48	17.66	224.625	23.51	24	Pass
*144 (U-NII-2C)	5720	16.54	16.58	16.71	16.77	184.995	22.67	23.02	Pass
*144 (U-NII-3)	5720	11.65	11.67	11.81	12.07	60.588	17.82	30	Pass
149	5745	23.53	23.82	23.79	23.69	939.63	29.73	30	Pass
157	5785	23.41	23.75	23.75	23.64	924.762	29.66	30	Pass
165	5825	23.54	23.74	23.69	23.62	926.563	29.67	30	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT40) CDD

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				
38	5190	14.34	14.18	14.24	14.07	105.419	20.23	30	Pass
46	5230	19.81	19.76	19.97	19.75	384.061	25.84	30	Pass
54	5270	17.72	17.56	17.68	17.74	234.216	23.70	24	Pass
62	5310	14.21	14.10	14.19	13.71	101.806	20.08	24	Pass
102	5510	16.78	16.66	16.69	16.77	188.187	22.75	24	Pass
110	5550	17.64	17.42	17.43	17.52	225.113	23.52	24	Pass
134	5670	17.62	17.33	17.38	17.50	222.821	23.48	24	Pass
*142 (U-NII-2C)	5710	17.15	17.09	17.21	17.24	208.616	23.19	24	Pass
*142 (U-NII-3)	5710	7.35	7.43	7.52	7.54	22.291	13.48	30	Pass
151	5755	23.62	23.50	23.62	23.79	923.492	29.65	30	Pass
159	5795	23.48	23.46	23.55	23.86	914.348	29.61	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT80) CDD

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				
42	5210	14.22	14.27	14.18	14.21	105.699	20.24	30	Pass
58	5290	14.31	14.42	14.39	14.58	110.834	20.45	24	Pass
106	5530	16.22	16.29	16.25	16.34	169.662	22.30	24	Pass
122	5610	17.43	17.51	17.47	17.56	224.562	23.51	24	Pass
*138 (U-NII-2C)	5690	17.44	17.01	17.49	17.22	214.525	23.31	24	Pass
*138 (U-NII-3)	5690	4.16	3.80	4.28	3.94	10.162	10.07	30	Pass
155	5775	20.49	20.57	20.51	20.58	452.717	26.56	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT160) CDD

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				
*50 (U-NII-1)	5250	11.01	10.83	10.76	10.68	48.332	16.84	30	Pass
*50 (U-NII-2A)	5250	11.10	11.00	11.04	10.99	50.738	17.05	24	Pass
114	5570	16.09	16.18	16.20	16.28	166.289	22.21	24	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) CDD

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				
36	5180	19.53	19.41	19.35	19.44	351.042	25.45	30	Pass
40	5200	21.67	21.73	21.76	21.74	595.077	27.75	30	Pass
48	5240	22.18	22.51	22.46	22.77	708.866	28.51	30	Pass
52	5260	16.55	16.41	16.62	16.65	181.096	22.58	24	Pass
60	5300	16.52	16.46	16.53	16.67	180.563	22.57	24	Pass
64	5320	16.53	16.48	16.56	16.68	181.289	22.58	24	Pass
100	5500	17.68	17.69	17.77	17.83	237.878	23.76	24	Pass
116	5580	17.76	17.51	17.81	17.88	237.838	23.76	24	Pass
140	5700	17.72	17.57	17.73	17.85	236.55	23.74	24	Pass
*144 (U-NII-2C)	5720	16.54	16.58	16.71	16.77	184.995	22.67	23.02	Pass
*144 (U-NII-3)	5720	11.65	11.67	11.81	12.07	60.588	17.82	30	Pass
149	5745	23.76	24.06	24.03	23.94	993.039	29.97	30	Pass
157	5785	23.65	23.99	23.97	23.87	975.591	29.89	30	Pass
165	5825	23.77	23.96	23.92	23.85	976.383	29.90	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.



### 802.11ax (HE40) CDD

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				
38	5190	14.57	14.42	14.47	14.31	111.278	20.46	30	Pass
46	5230	20.03	20.02	20.18	19.98	404.927	26.07	30	Pass
54	5270	17.96	17.82	17.92	18.02	248.382	23.95	24	Pass
62	5310	14.45	14.44	14.53	14.35	111.265	20.46	24	Pass
102	5510	17.03	16.89	16.94	17.01	198.997	22.99	24	Pass
110	5550	17.79	17.65	17.66	17.78	236.651	23.74	24	Pass
134	5670	17.83	17.57	17.64	17.75	235.464	23.72	24	Pass
*142 (U-NII-2C)	5710	17.15	17.09	17.21	17.24	208.616	23.19	24	Pass
*142 (U-NII-3)	5710	7.35	7.43	7.52	7.54	22.291	13.48	30	Pass
151	5755	23.86	23.74	23.86	24.03	975.963	29.89	30	Pass
159	5795	23.72	23.71	23.79	24.12	968.026	29.86	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80) CDD

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				
42	5210	14.46	14.51	14.43	14.43	111.641	20.48	30	Pass
58	5290	14.53	14.69	14.63	14.82	117.203	20.69	24	Pass
106	5530	16.45	16.52	16.48	16.57	178.889	22.53	24	Pass
122	5610	17.68	17.74	17.71	17.79	237.181	23.75	24	Pass
*138 (U-NII-2C)	5690	17.44	17.01	17.49	17.22	214.525	23.31	24	Pass
*138 (U-NII-3)	5690	4.16	3.80	4.28	3.94	10.162	10.07	30	Pass
155	5775	20.72	20.83	20.77	20.84	479.83	26.81	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.73 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160) CDD

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				
*50 (U-NII-1)	5250	11.01	10.83	10.76	10.68	48.332	16.84	30	Pass
*50 (U-NII-2A)	5250	11.10	11.00	11.04	10.99	50.738	17.05	24	Pass
114	5570	16.33	16.45	16.44	16.51	175.938	22.45	24	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.22 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.79 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				
36	5180	19.27	19.19	19.14	19.21	332.916	25.22	28.91	Pass
40	5200	21.43	21.47	21.51	21.52	562.762	27.50	28.91	Pass
48	5240	22.13	22.42	22.34	22.59	690.835	28.39	28.91	Pass
52	5260	16.37	16.21	16.42	16.61	174.801	22.43	22.61	Pass
60	5300	16.33	16.29	16.48	16.53	174.955	22.43	22.61	Pass
64	5320	16.32	16.26	16.40	16.51	173.545	22.39	22.61	Pass
100	5500	17.51	17.43	17.53	17.59	225.734	23.54	23.79	Pass
116	5580	17.52	17.29	17.62	17.68	226.497	23.55	23.79	Pass
140	5700	17.49	17.34	17.48	17.66	224.625	23.51	23.79	Pass
*144 (U-NII-2C)	5720	16.54	16.58	16.71	16.77	184.995	22.67	22.81	Pass
*144 (U-NII-3)	5720	11.65	11.67	11.81	12.07	60.588	17.82	29.58	Pass
149	5745	23.01	23.27	23.26	23.17	831.638	29.20	29.58	Pass
157	5785	22.96	23.24	23.23	23.15	825.476	29.17	29.58	Pass
165	5825	23.06	23.21	23.17	23.14	825.268	29.17	29.58	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (7.09 - 6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.39 - 6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.21 - 6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.42 - 6) = 29.58$  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				
38	5190	14.34	14.18	14.24	14.07	105.419	20.23	28.91	Pass
46	5230	19.81	19.76	19.97	19.75	384.061	25.84	28.91	Pass
54	5270	16.28	16.09	16.22	16.33	167.939	22.25	22.61	Pass
62	5310	14.21	14.10	14.19	13.71	101.806	20.08	22.61	Pass
102	5510	16.78	16.66	16.69	16.77	188.187	22.75	23.79	Pass
110	5550	17.64	17.42	17.43	17.52	225.113	23.52	23.79	Pass
134	5670	17.62	17.33	17.38	17.50	222.821	23.48	23.79	Pass
*142 (U-NII-2C)	5710	17.15	17.09	17.21	17.24	208.616	23.19	23.79	Pass
*142 (U-NII-3)	5710	7.35	7.43	7.52	7.54	22.291	13.48	29.58	Pass
151	5755	23.12	23.01	23.09	23.35	825.078	29.16	29.58	Pass
159	5795	23.02	22.98	23.06	23.42	821.145	29.14	29.58	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (7.09 - 6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.39 - 6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.21 - 6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.42 - 6) = 29.58$  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				
42	5210	14.22	14.27	14.18	14.21	105.699	20.24	28.91	Pass
58	5290	14.31	14.42	14.39	14.58	110.834	20.45	22.61	Pass
106	5530	16.22	16.29	16.25	16.34	169.662	22.30	23.79	Pass
122	5610	17.43	17.51	17.47	17.56	224.562	23.51	23.79	Pass
*138 (U-NII-2C)	5690	17.44	17.01	17.49	17.22	214.525	23.31	23.79	Pass
*138 (U-NII-3)	5690	4.16	3.80	4.28	3.94	10.162	10.07	29.58	Pass
155	5775	20.49	20.57	20.51	20.58	452.717	26.56	29.58	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(7.09-6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.39-6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.21-6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.42-6) = 29.58$  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				
*50 (U-NII-1)	5250	11.01	10.83	10.76	10.68	48.332	16.84	28.91	Pass
*50 (U-NII-2A)	5250	11.10	11.00	11.04	10.99	50.738	17.05	22.61	Pass
114	5570	16.09	16.18	16.20	16.28	166.289	22.21	23.79	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(7.09-6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.39-6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.21-6)].

## 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				
36	5180	19.53	19.41	19.35	19.44	351.042	25.45	28.91	Pass
40	5200	21.67	21.73	21.76	21.74	595.077	27.75	28.91	Pass
48	5240	22.18	22.51	22.46	22.77	708.866	28.51	28.91	Pass
52	5260	16.55	16.41	16.62	16.65	181.096	22.58	22.61	Pass
60	5300	16.52	16.46	16.53	16.67	180.563	22.57	22.61	Pass
64	5320	16.53	16.48	16.56	16.68	181.289	22.58	22.61	Pass
100	5500	17.68	17.69	17.77	17.83	237.878	23.76	23.79	Pass
116	5580	17.76	17.51	17.81	17.88	237.838	23.76	23.79	Pass
140	5700	17.72	17.57	17.73	17.85	236.55	23.74	23.79	Pass
*144 (U-NII-2C)	5720	16.54	16.58	16.71	16.77	184.995	22.67	22.81	Pass
*144 (U-NII-3)	5720	11.65	11.67	11.81	12.07	60.588	17.82	29.58	Pass
149	5745	23.34	23.65	23.58	23.56	902.535	29.55	29.58	Pass
157	5785	23.18	23.51	23.51	23.39	875.019	29.42	29.58	Pass
165	5825	23.31	23.49	23.44	23.36	875.217	29.42	29.58	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (7.09 - 6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.39 - 6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.21 - 6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.42 - 6) = 29.58$  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				
38	5190	14.57	14.42	14.47	14.31	111.278	20.46	28.91	Pass
46	5230	20.03	20.02	20.18	19.98	404.927	26.07	28.91	Pass
54	5270	16.51	16.33	16.45	16.56	177.172	22.48	22.61	Pass
62	5310	14.45	14.44	14.53	14.35	111.265	20.46	22.61	Pass
102	5510	17.03	16.89	16.94	17.01	198.997	22.99	23.79	Pass
110	5550	17.79	17.65	17.66	17.78	236.651	23.74	23.79	Pass
134	5670	17.83	17.57	17.64	17.75	235.464	23.72	23.79	Pass
*142 (U-NII-2C)	5710	17.15	17.09	17.21	17.24	208.616	23.19	23.79	Pass
*142 (U-NII-3)	5710	7.35	7.43	7.52	7.54	22.291	13.48	29.58	Pass
151	5755	23.34	23.21	23.33	23.58	868.498	29.39	29.58	Pass
159	5795	23.24	23.22	23.32	23.66	867.814	29.38	29.58	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (7.09 - 6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.39 - 6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.21 - 6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.42 - 6) = 29.58$  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				
42	5210	14.46	14.51	14.43	14.43	111.641	20.48	28.91	Pass
58	5290	14.53	14.69	14.63	14.82	117.203	20.69	22.61	Pass
106	5530	16.45	16.52	16.48	16.57	178.889	22.53	23.79	Pass
122	5610	17.68	17.74	17.71	17.79	237.181	23.75	23.79	Pass
*138 (U-NII-2C)	5690	17.44	17.01	17.49	17.22	214.525	23.31	23.79	Pass
*138 (U-NII-3)	5690	4.16	3.80	4.28	3.94	10.162	10.07	29.58	Pass
155	5775	20.72	20.83	20.77	20.84	479.83	26.81	29.58	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(7.09-6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.39-6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.21-6)].
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.42-6) = 29.58$  dBm.

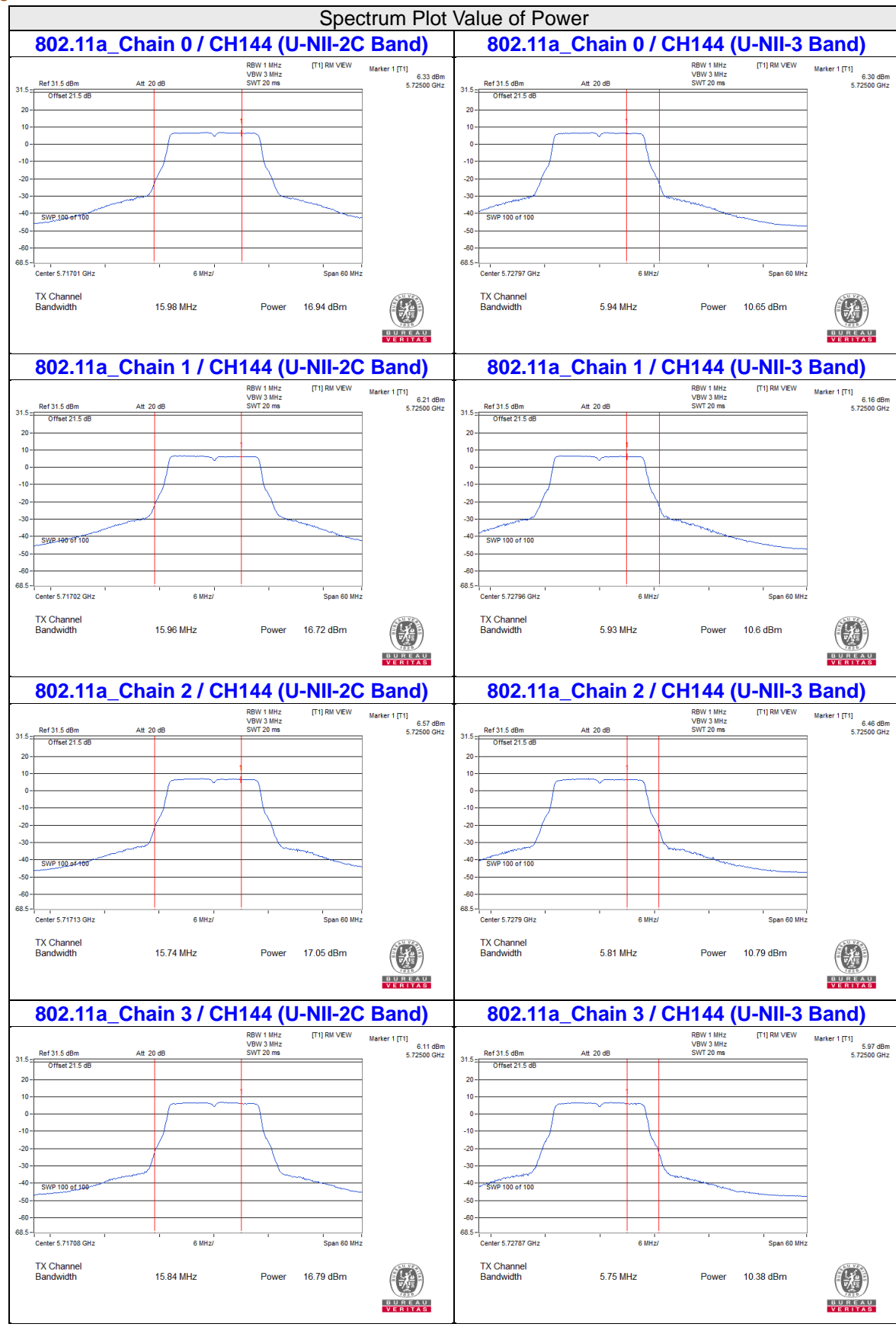
### 802.11ax (HE160) Beamforming

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				
*50 (U-NII-1)	5250	11.01	10.83	10.76	10.68	48.332	16.84	28.91	Pass
*50 (U-NII-2A)	5250	11.10	11.00	11.04	10.99	50.738	17.05	22.61	Pass
114	5570	16.33	16.45	16.44	16.51	175.938	22.45	23.79	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(7.09-6) = 28.91$  dBm.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.39-6)].
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.21-6)].

**For channel straddling 5725MHz of Power**  
**CDD Mode**





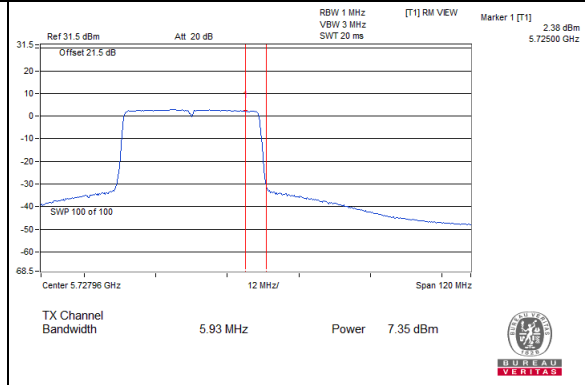
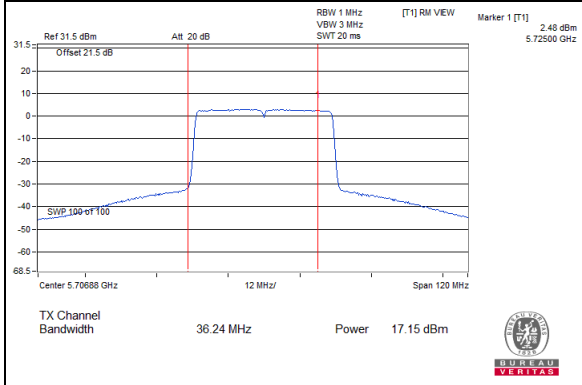


### CDD / Beamforming Mode

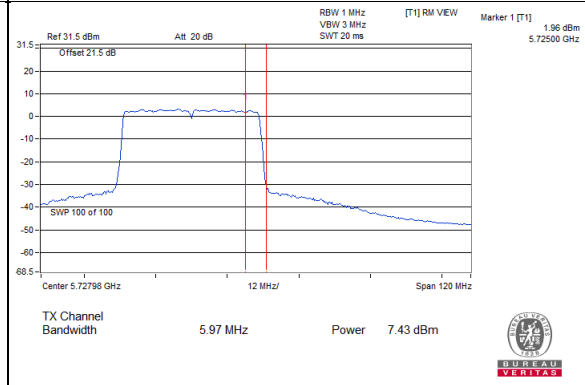
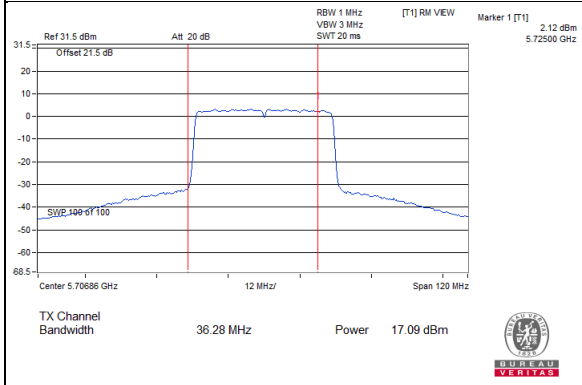


### Spectrum Plot Value of Power

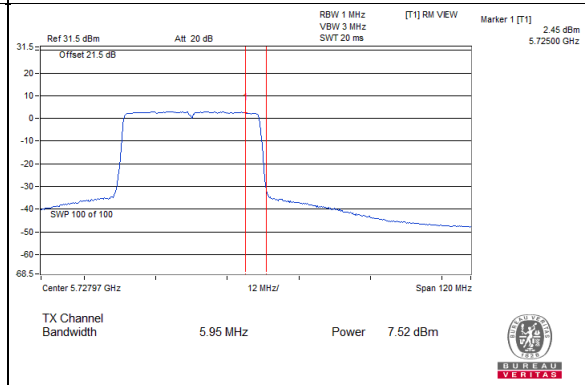
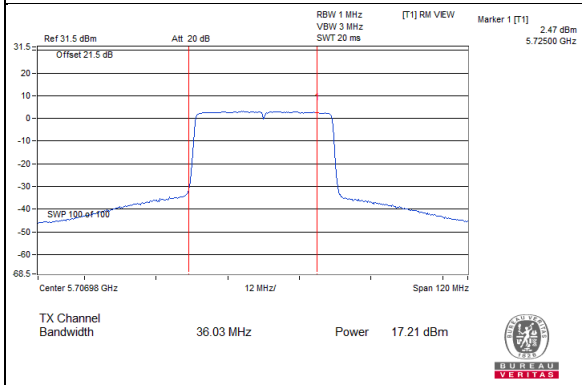
#### 802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-2C Band) 802.11ac (VHT40)\_Chain 0 / CH142 (U-NII-3 Band)



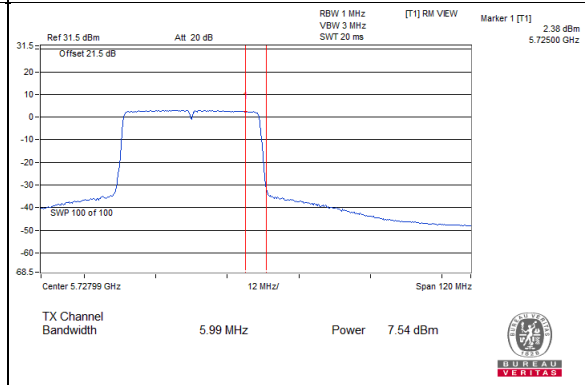
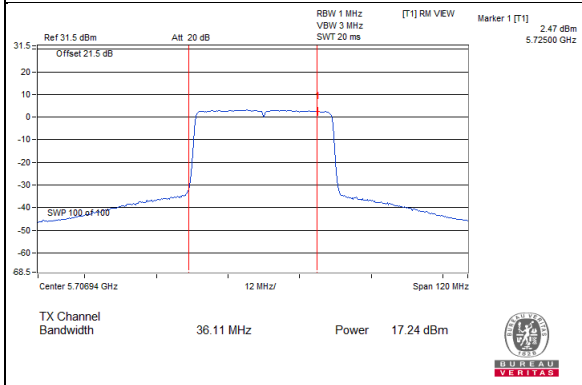
#### 802.11ac (VHT40)\_Chain 1 / CH142 (U-NII-2C Band) 802.11ac (VHT40)\_Chain 1 / CH142 (U-NII-3 Band)



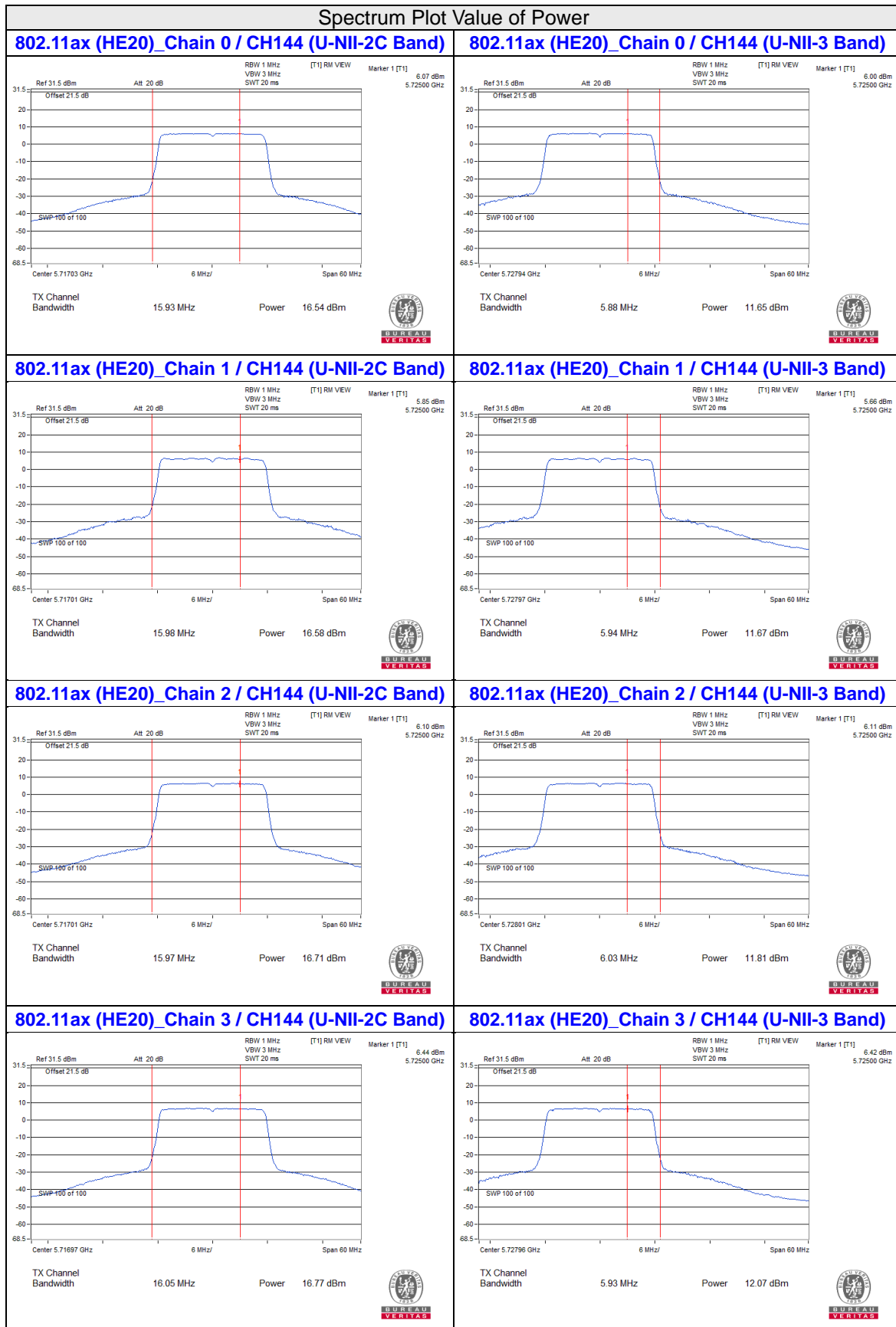
#### 802.11ac (VHT40)\_Chain 2 / CH142 (U-NII-2C Band) 802.11ac (VHT40)\_Chain 2 / CH142 (U-NII-3 Band)

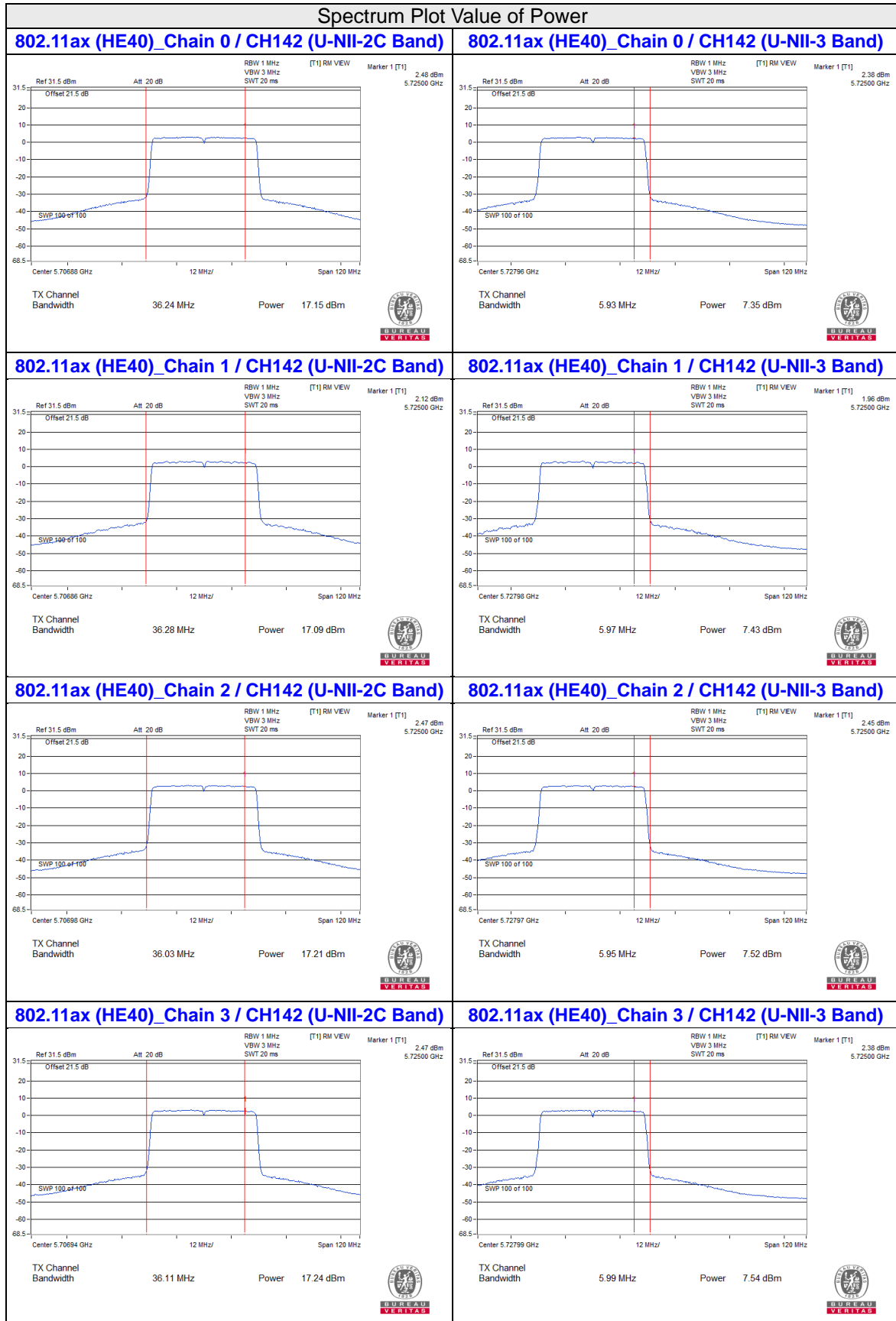


#### 802.11ac (VHT40)\_Chain 3 / CH142 (U-NII-2C Band) 802.11ac (VHT40)\_Chain 3 / CH142 (U-NII-3 Band)











**For channel straddling 5250MHz of Power  
CDD / Beamforming Mode**







### 7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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#### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.88	6.60	6.61	6.76	12.50	15.91	Pass
40	5200	8.24	8.48	9.00	9.07	14.73	15.91	Pass
48	5240	8.12	8.53	9.34	9.17	14.84	15.91	Pass
52	5260	1.60	2.59	3.11	2.79	8.58	9.61	Pass
60	5300	1.70	2.73	3.26	2.98	8.73	9.61	Pass
64	5320	1.88	2.79	3.08	3.13	8.77	9.61	Pass
100	5500	2.77	3.76	3.21	3.91	9.46	10.79	Pass
116	5580	2.49	3.65	3.75	3.42	9.38	10.79	Pass
140	5700	2.06	3.34	3.73	3.53	9.23	10.79	Pass
144 (U-NII-2C)	5720	1.92	3.39	4.29	3.95	9.50	10.79	Pass

#### Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6dBi, so the power density limit shall be reduced to  $17-(7.09-6) = 15.91$  dBm/MHz.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(7.39-6) = 9.61$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.21-6) = 10.79$  dBm/MHz.

**802.11ax (HE20)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	4.85	4.63	5.46	5.55	11.16	15.91	Pass
40	5200	7.65	7.50	8.02	7.87	13.79	15.91	Pass
48	5240	8.87	8.45	8.94	8.67	14.76	15.91	Pass
52	5260	1.98	2.02	2.98	2.61	8.44	9.61	Pass
60	5300	2.11	2.09	3.00	2.71	8.52	9.61	Pass
64	5320	2.09	2.04	2.68	3.02	8.50	9.61	Pass
100	5500	3.02	3.24	3.77	3.92	9.52	10.79	Pass
116	5580	2.57	2.91	3.38	3.49	9.12	10.79	Pass
140	5700	2.35	3.00	3.09	3.62	9.06	10.79	Pass
144 (U-NII-2C)	5720	3.00	3.48	3.91	3.95	9.62	10.79	Pass

**Notes:**

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6dBi, so the power density limit shall be reduced to  $17-(7.09-6) = 15.91$  dBm/MHz.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(7.39-6) = 9.61$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.21-6) = 10.79$  dBm/MHz.

**802.11ax (HE40)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	-3.29	-3.28	-2.47	-2.56	3.14	15.91	Pass
46	5230	2.79	2.72	3.53	3.25	9.11	15.91	Pass
54	5270	0.60	1.03	1.19	1.02	6.99	9.61	Pass
62	5310	-2.61	-2.42	-2.35	-2.45	3.56	9.61	Pass
102	5510	-0.45	-0.18	0.12	0.13	5.93	10.79	Pass
110	5550	0.60	0.35	0.76	0.79	6.65	10.79	Pass
134	5670	-0.12	-0.05	0.26	0.56	6.19	10.79	Pass
142 (U-NII-2C)	5710	0.78	0.25	0.95	1.21	6.83	10.79	Pass

**Notes:**

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6dBi, so the power density limit shall be reduced to  $17-(7.09-6) = 15.91$  dBm/MHz.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(7.39-6) = 9.61$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.21-6) = 10.79$  dBm/MHz.

**802.11ax (HE80)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-5.77	-5.72	-5.23	-5.39	0.50	15.91	Pass
58	5290	-5.56	-5.35	-4.72	-5.42	0.77	9.61	Pass
106	5530	-3.91	-3.39	-3.62	-3.34	2.46	10.79	Pass
122	5610	-2.94	-1.88	-2.62	-2.25	3.62	10.79	Pass
138 (U-NII-2C)	5690	-2.12	-1.80	-2.34	-2.53	3.83	10.79	Pass

**Notes:**

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6dBi, so the power density limit shall be reduced to  $17-(7.09-6) = 15.91$  dBm/MHz.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(7.39-6) = 9.61$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.21-6) = 10.79$  dBm/MHz.

### 802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-6.11	-6.05	-6.10	-6.11	-0.07	15.91	Pass
50 (U-NII-2A)	5250	-6.17	-6.10	-6.15	-6.13	-0.12	9.61	Pass
114	5570	-3.94	-3.87	-3.87	-3.66	2.19	10.79	Pass

#### Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.09 dBi > 6dBi, so the power density limit shall be reduced to  $17-(7.09-6) = 15.91$  dBm/MHz.
- For U-NII-2A, the directional gain is 7.39 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(7.39-6) = 9.61$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.21 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.21-6) = 10.79$  dBm/MHz.

### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-6.25	-4.86	-4.02	-4.39	1.22	3.44	29.58	Pass
149	5745	1.66	1.38	1.95	1.93	7.76	9.98	29.58	Pass
157	5785	1.86	1.32	2.12	2.18	7.9	10.12	29.58	Pass
165	5825	1.90	1.64	2.27	2.21	8.03	10.25	29.58	Pass

#### Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.42-6) = 29.58$  dBm/500kHz.

### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-5.67	-5.17	-5.27	-4.91	0.77	2.99	29.58	Pass
149	5745	0.20	0.30	0.48	0.66	6.43	8.65	29.58	Pass
157	5785	0.32	0.43	0.56	0.70	6.53	8.75	29.58	Pass
165	5825	0.44	0.63	0.80	0.80	6.69	8.91	29.58	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.42-6) = 29.58$  dBm/500kHz.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-8.29	-8.92	-8.58	-8.08	-2.44	-0.22	29.58	Pass
151	5755	-2.43	-2.12	-2.49	-1.99	3.77	5.99	29.58	Pass
159	5795	-2.24	-2.01	-2.29	-1.79	3.94	6.16	29.58	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.42-6) = 29.58$  dBm/500kHz.

### 802.11ax (HE80)

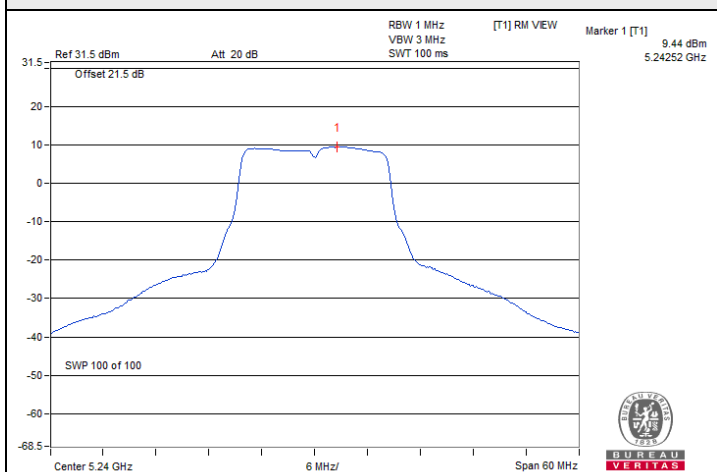
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-11.67	-11.64	-12.20	-12.21	-5.9	-3.68	29.58	Pass
155	5775	-8.30	-8.26	-8.74	-8.26	-2.36	-0.14	29.58	Pass

Notes:

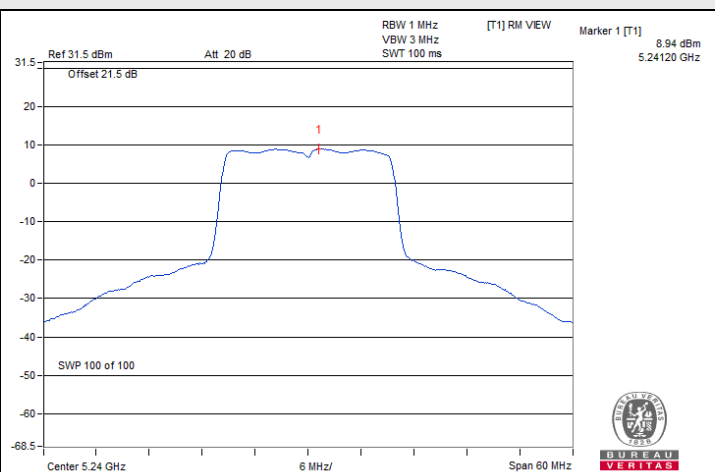
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.42-6) = 29.58$  dBm/500kHz.



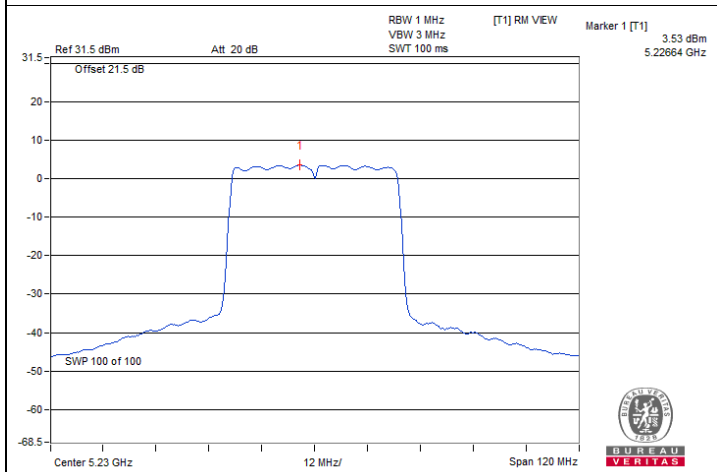
### Spectrum Plot of Maximum Value



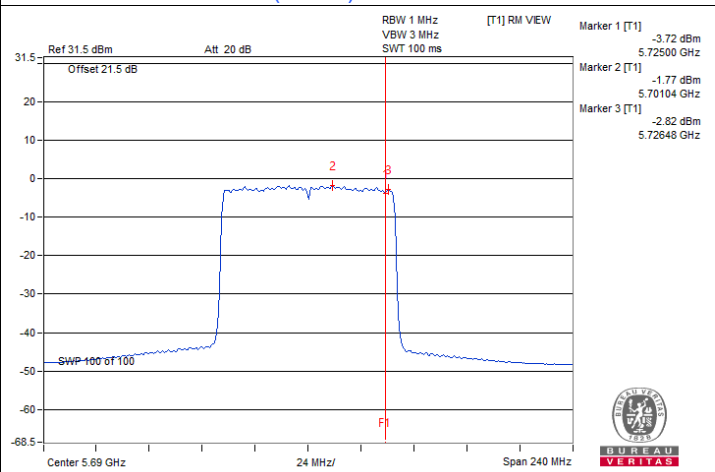
802.11a / Chain2 : CH 48



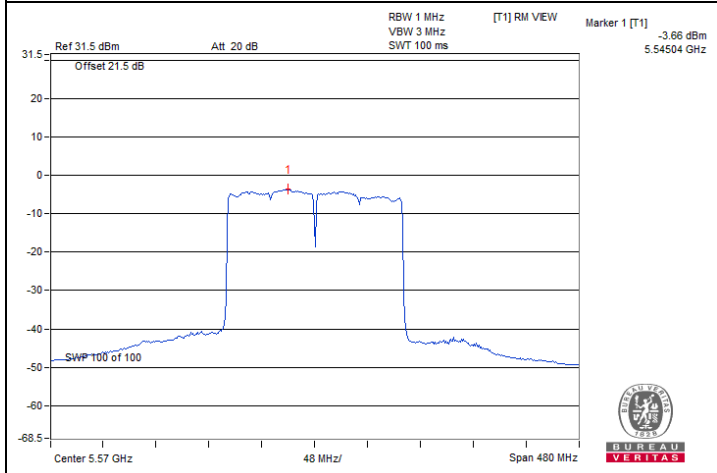
802.11ax (HE20) / Chain2 : CH 48



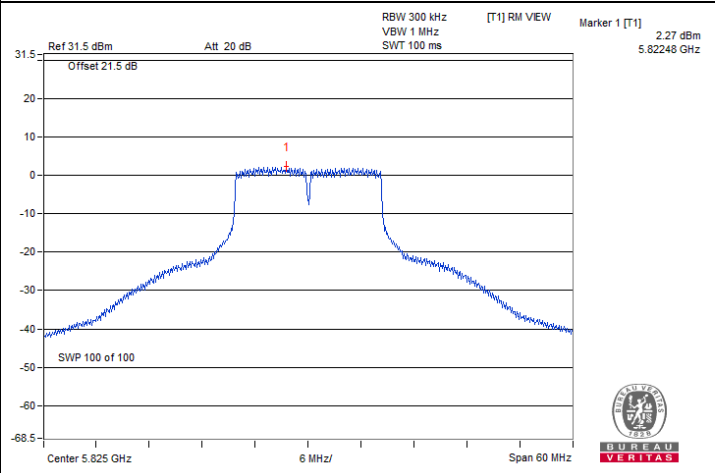
802.11ax (HE40) / Chain2 : CH 46



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

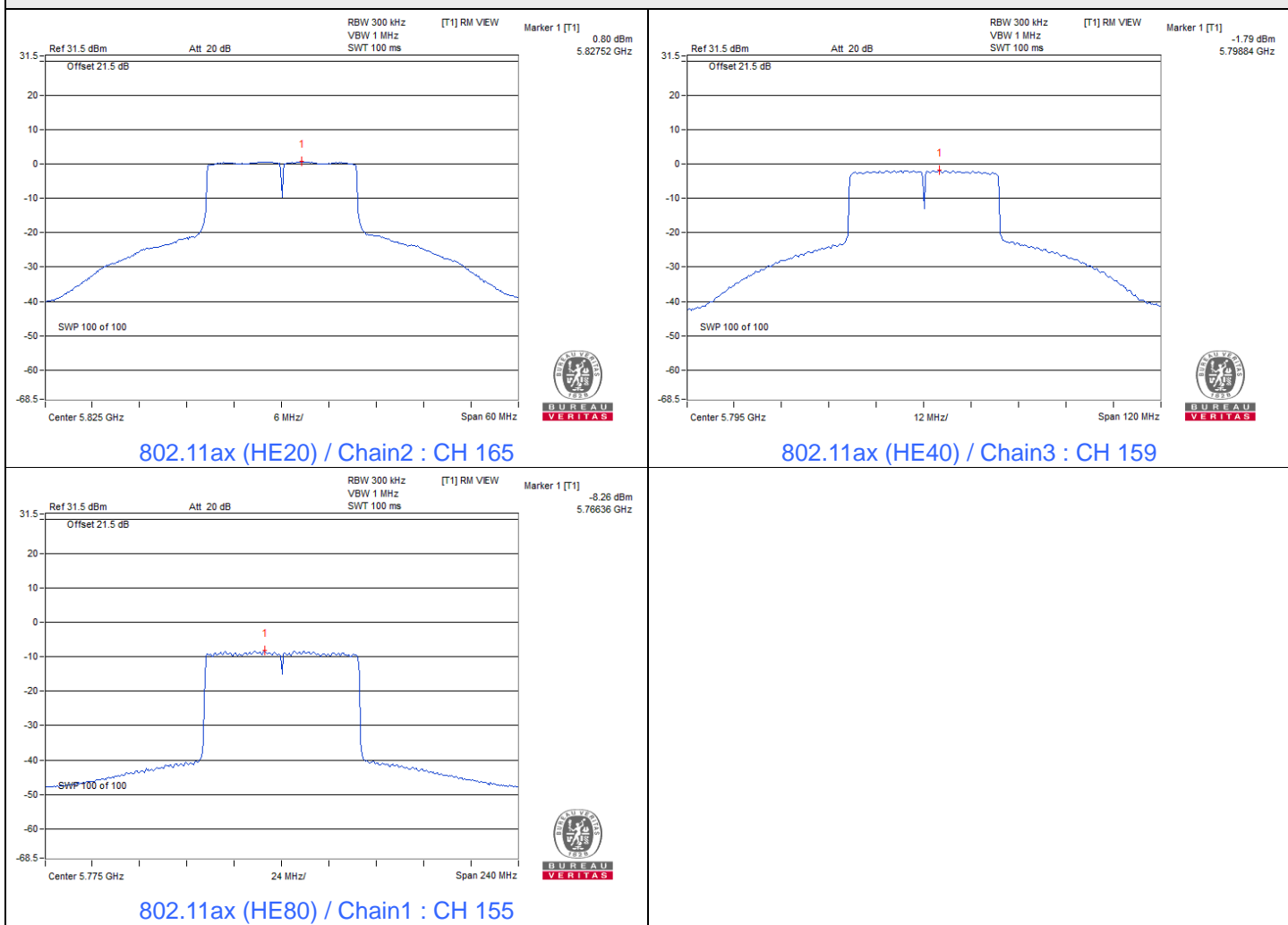


802.11ax (HE160) / Chain3 : CH 114



802.11a / Chain2 : CH 165

### Spectrum Plot of Maximum Value



#### 7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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##### 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	3.18	3.18	3.18	3.19	0.5	Pass
149	5745	16.39	16.41	16.37	16.40	0.5	Pass
157	5785	16.39	16.41	16.38	16.43	0.5	Pass
165	5825	16.38	16.41	16.41	16.41	0.5	Pass

##### 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	4.52	4.50	4.55	4.48	0.5	Pass
149	5745	19.06	18.95	18.97	19.01	0.5	Pass
157	5785	18.98	18.97	18.97	19.01	0.5	Pass
165	5825	19.04	19.00	19.02	19.04	0.5	Pass

##### 802.11ax (HE40)

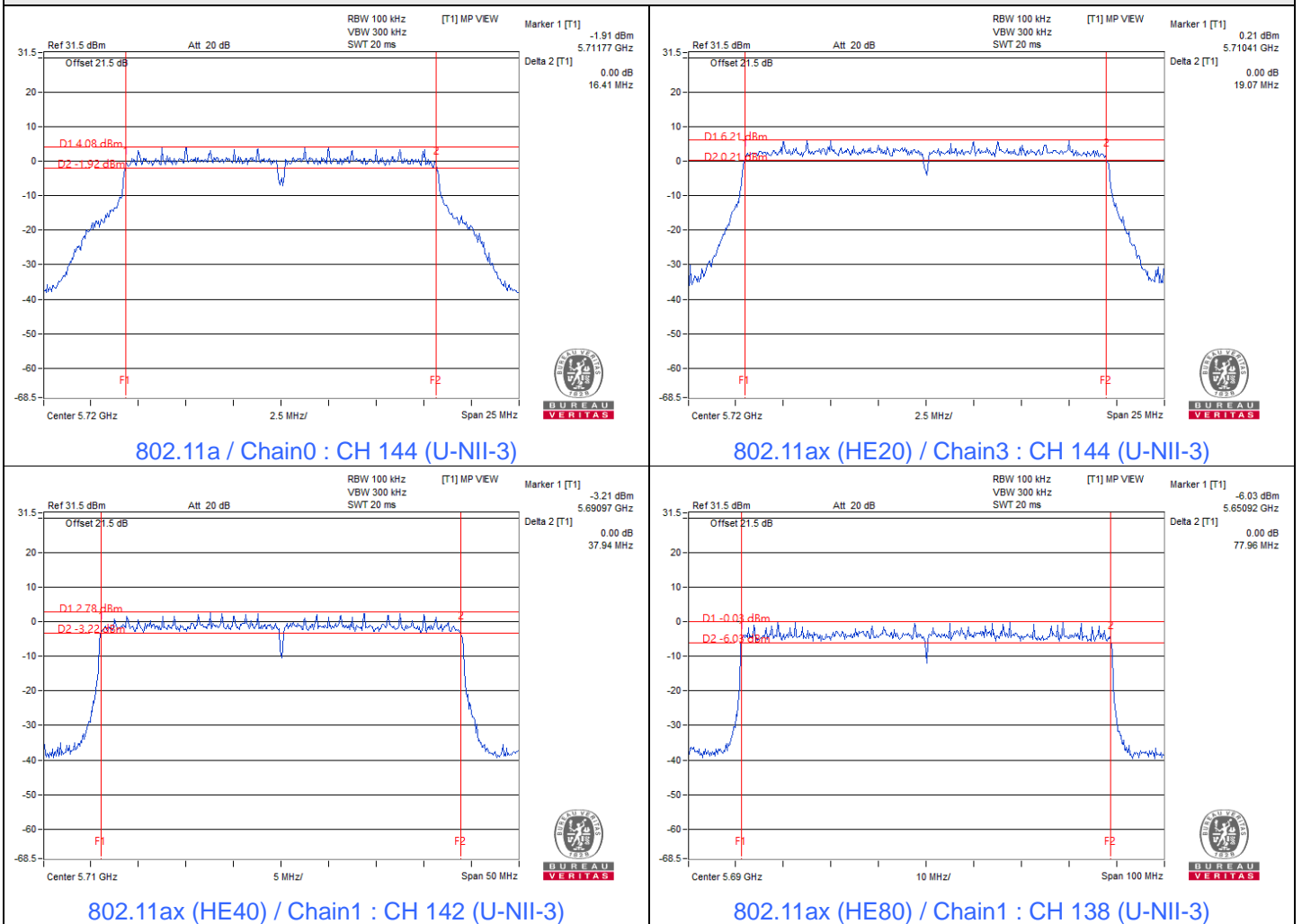
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	4.02	3.91	3.93	4.02	0.5	Pass
151	5755	37.83	37.79	37.79	37.79	0.5	Pass
159	5795	37.92	37.90	37.76	37.87	0.5	Pass

##### 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	4.04	3.88	3.97	3.97	0.5	Pass
155	5775	77.85	77.87	77.43	77.70	0.5	Pass



### Spectrum Plot of Minimum Value



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:	Eric Peng
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### 802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.92	17.16	16.80	16.80
40	5200	17.04	17.04	17.16	16.92
48	5240	17.16	17.04	16.92	17.04
52	5260	16.92	16.92	16.80	16.92
60	5300	17.04	16.92	16.80	16.92
64	5320	17.16	17.04	16.92	16.92
100	5500	17.04	16.92	16.92	16.92
116	5580	16.92	16.92	17.04	16.92
140	5700	17.04	16.92	16.80	16.92
144 (U-NII-2C)	5720	13.52	13.52	13.52	13.52
144 (U-NII-3)	5720	3.40	3.40	3.40	3.52
149	5745	18.48	19.08	18.24	17.88
157	5785	17.64	19.56	18.48	18.36
165	5825	18.00	19.20	19.08	18.48

### 802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.20	19.20	19.08	19.08
40	5200	19.20	19.20	19.08	19.20
48	5240	19.32	19.08	19.08	19.08
52	5260	19.08	19.08	19.08	19.08
60	5300	19.08	19.08	19.08	19.08
64	5320	19.08	19.08	19.08	19.20
100	5500	19.08	19.08	19.08	19.20
116	5580	19.08	19.20	19.08	19.08
140	5700	19.08	19.08	19.08	19.08
144 (U-NII-2C)	5720	14.60	14.72	14.60	14.60
144 (U-NII-3)	5720	4.48	4.48	4.60	4.60
149	5745	19.56	20.28	19.68	19.32
157	5785	19.44	20.52	19.80	19.56
165	5825	19.32	20.04	19.92	19.68

**802.11ax (HE40)**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.16	38.16	38.16
46	5230	38.16	37.92	38.16	38.16
54	5270	38.16	38.16	38.16	38.16
62	5310	38.16	38.16	38.16	38.16
102	5510	38.16	38.16	38.16	38.40
110	5550	38.16	38.16	38.40	38.16
134	5670	38.16	38.16	38.16	38.16
142 (U-NII-2C)	5710	34.20	34.20	34.20	33.96
142 (U-NII-3)	5710	3.96	3.96	3.96	3.96
151	5755	39.12	42.24	39.12	39.12
159	5795	39.12	43.44	40.08	39.12

**802.11ax (HE80)**

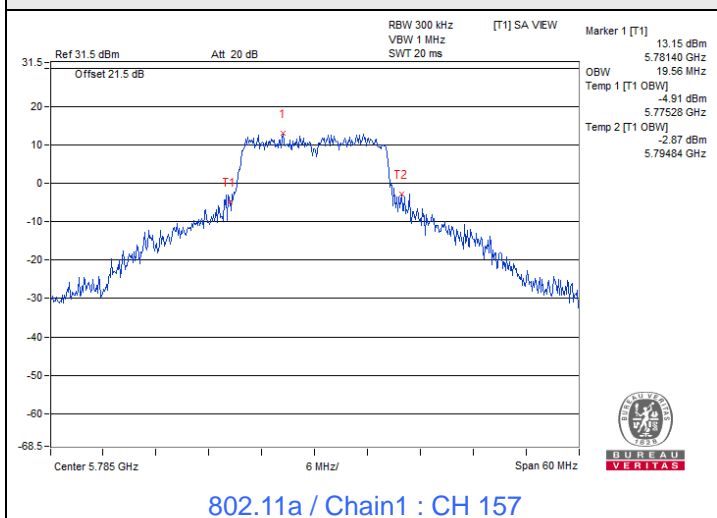
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.28
58	5290	77.28	77.28	77.28	77.52
106	5530	77.28	77.28	77.28	77.28
122	5610	77.28	77.28	77.52	77.28
138 (U-NII-2C)	5690	73.88	74.36	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40	3.40	3.40
155	5775	77.28	77.76	77.28	77.28

**802.11ax (HE160)**

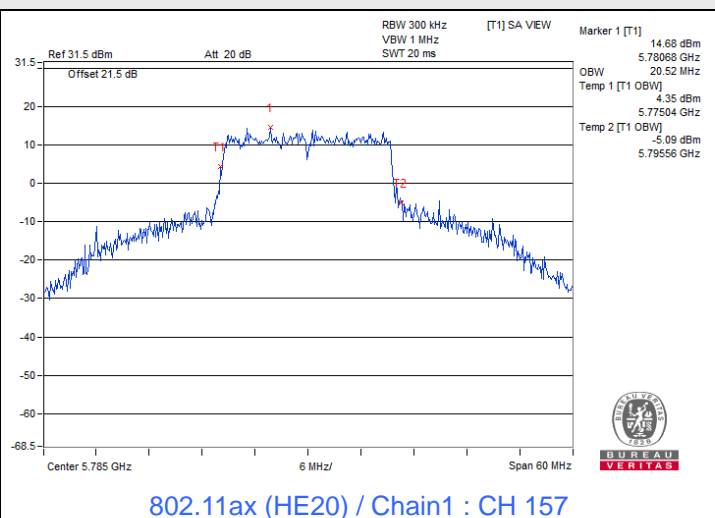
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	78.72	78.72	78.72	78.72
50 (U-NII-2A)	5250	78.72	78.72	77.76	78.72
114	5570	156.48	156.48	156.48	157.44



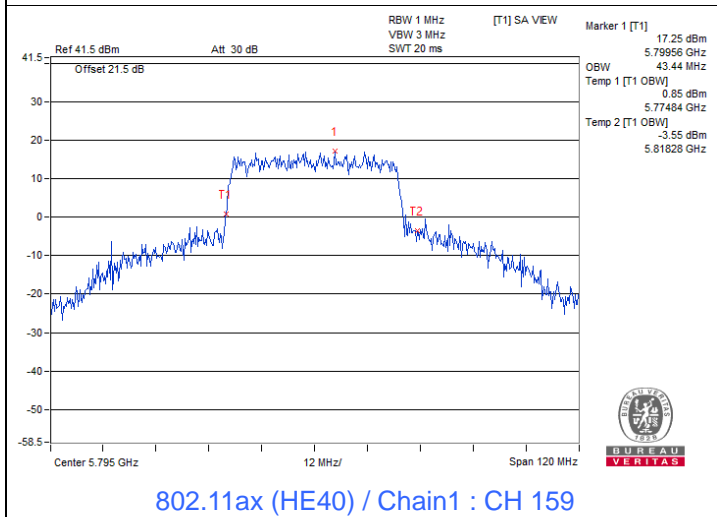
### Spectrum Plot of Maximum Value



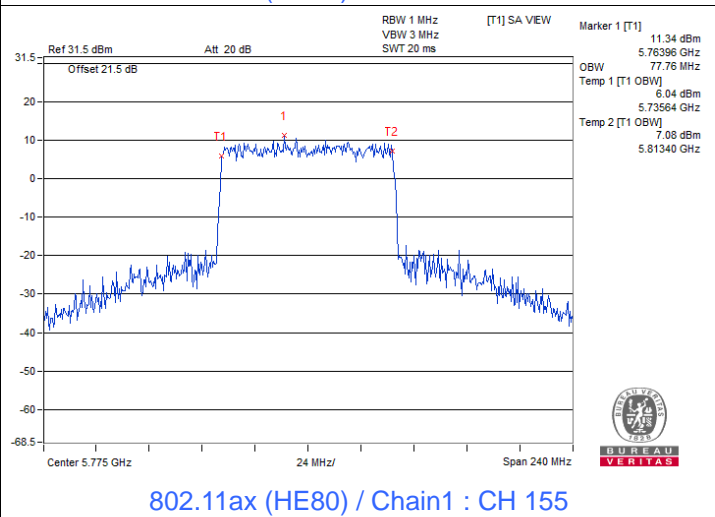
802.11a / Chain1 : CH 157



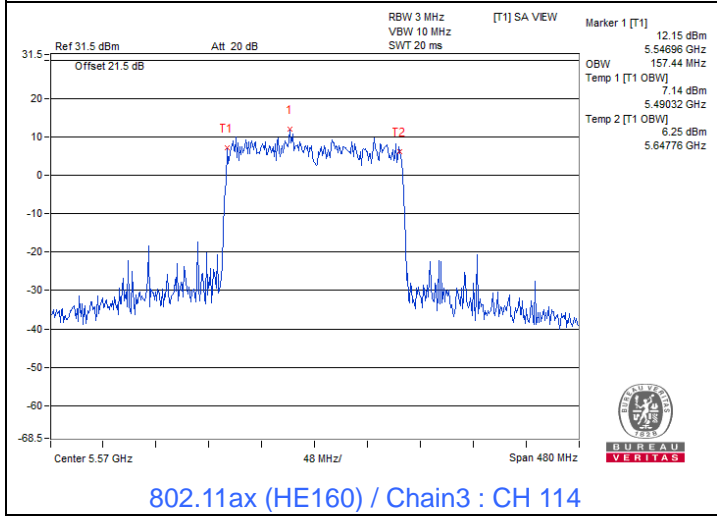
802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain1 : CH 159

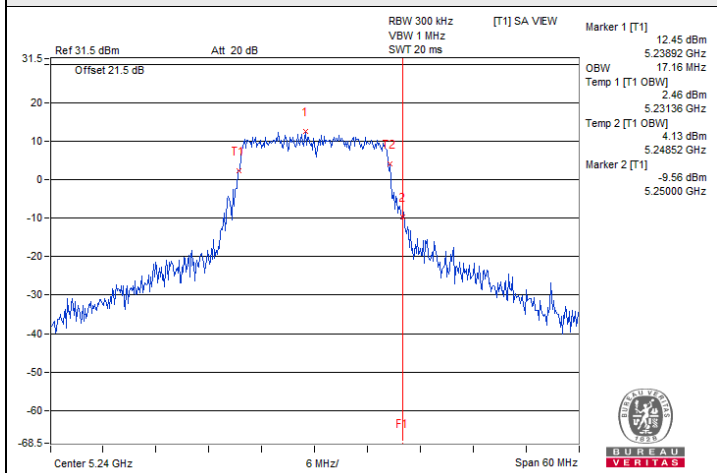


802.11ax (HE80) / Chain1 : CH 155

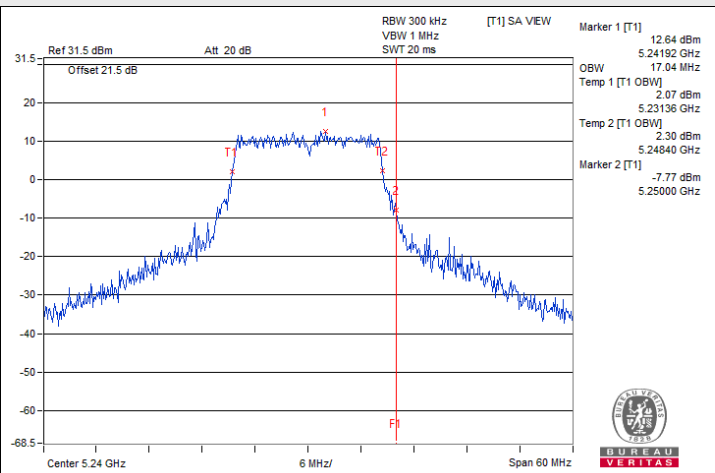


802.11ax (HE160) / Chain3 : CH 114

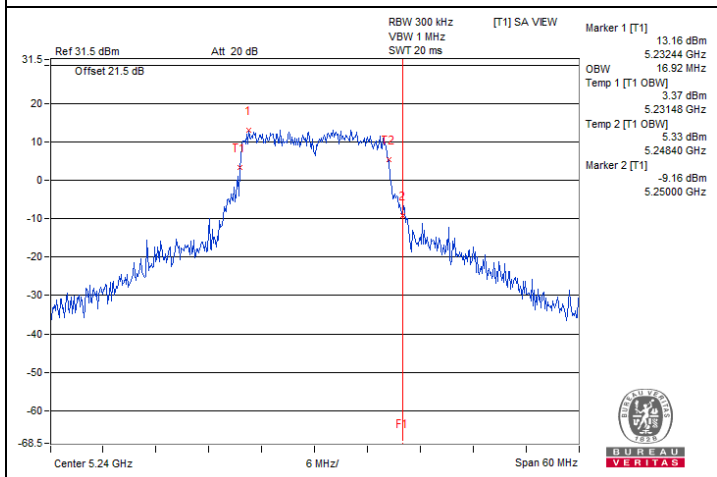
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



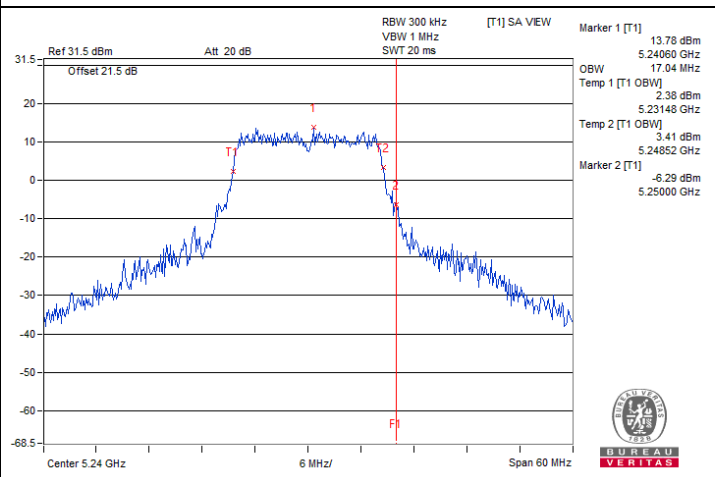
802.11a / Chain 0 : CH 48



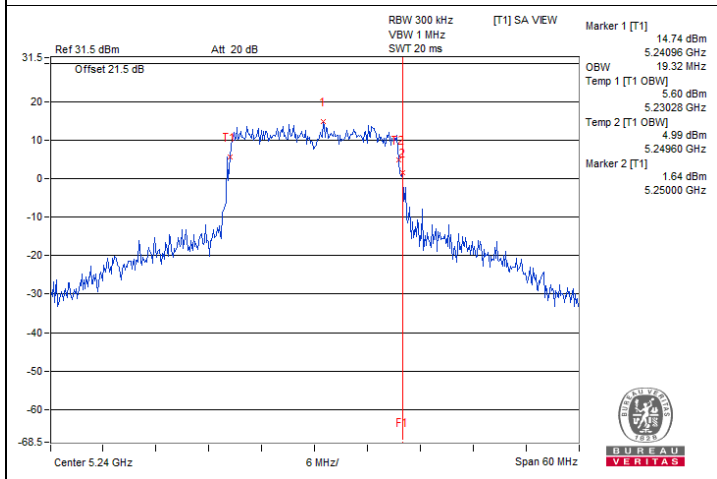
802.11a / Chain 1 : CH 48



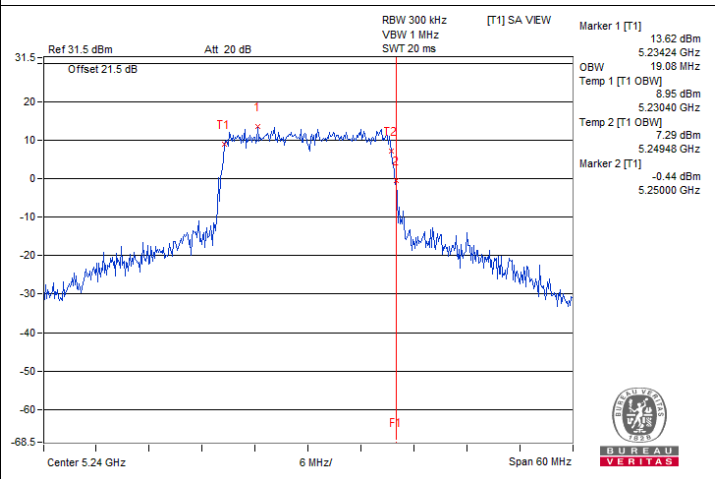
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

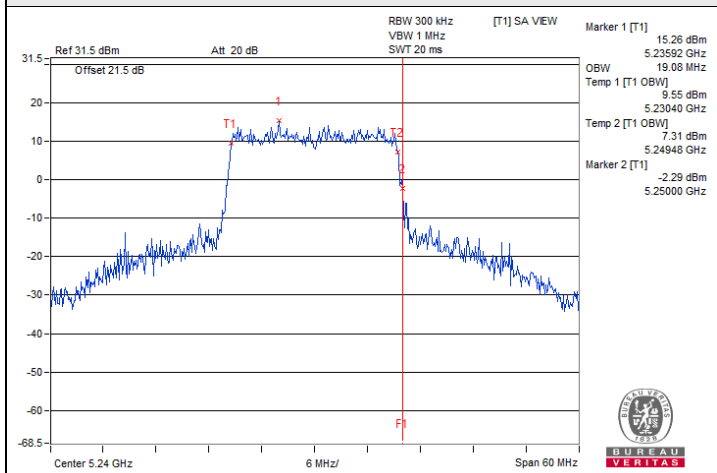


802.11ax (HE20) / Chain 0 : CH 48

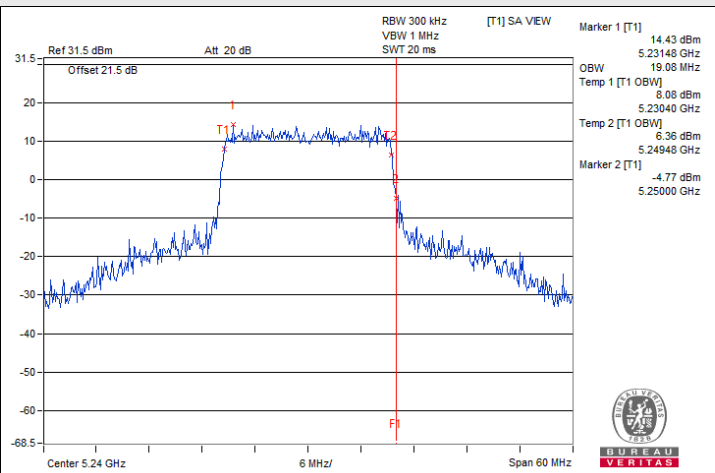


802.11ax (HE20) / Chain 1 : CH 48

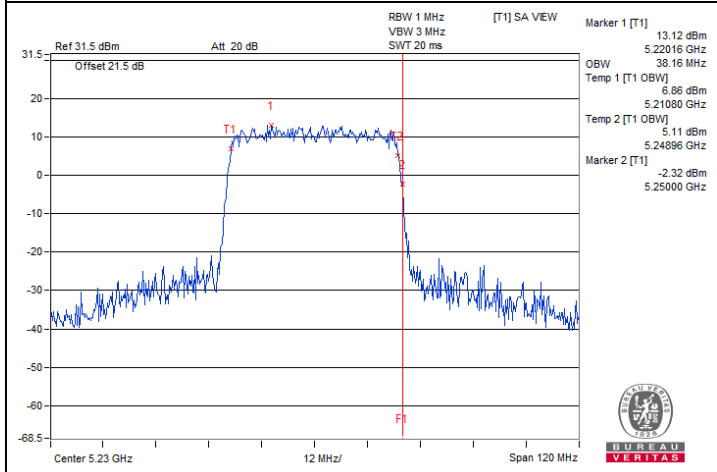
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



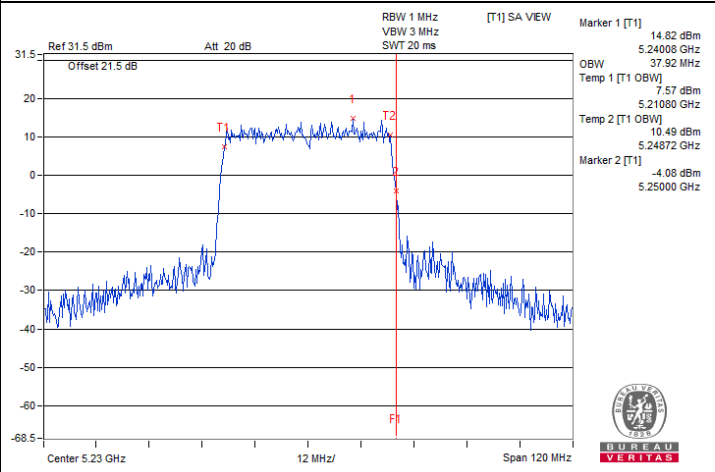
802.11ax (HE20) / Chain 2 : CH 48



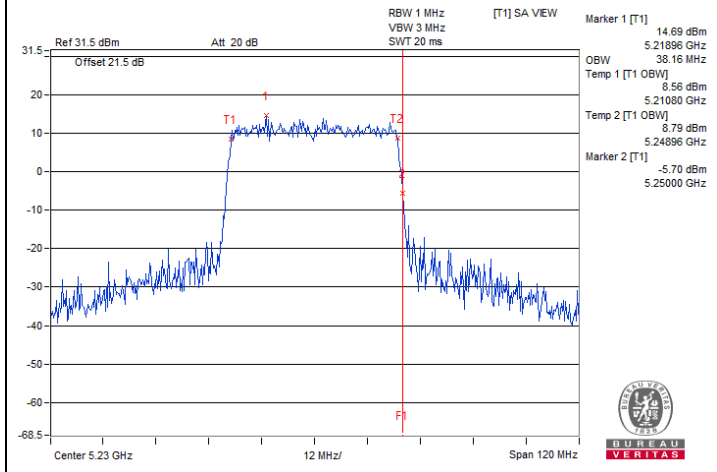
802.11ax (HE20) / Chain 3 : CH 48



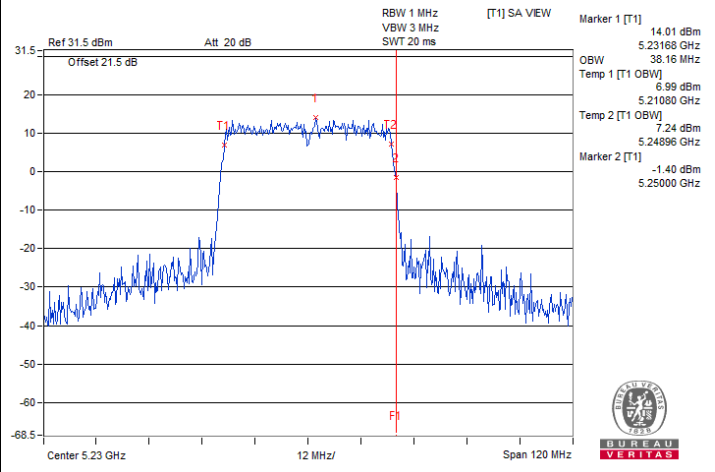
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

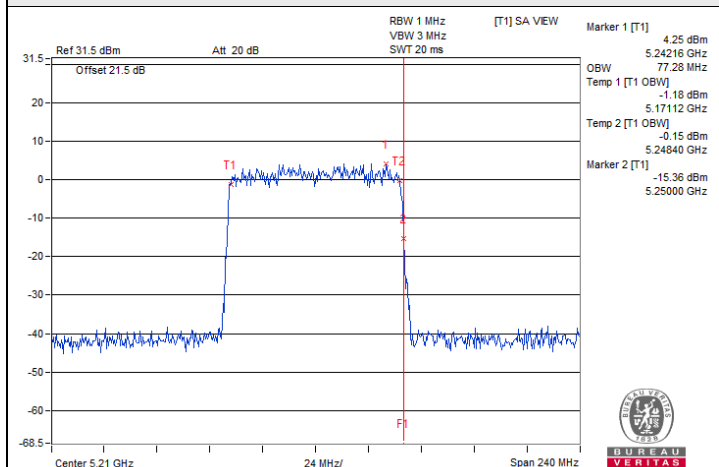


802.11ax (HE40) / Chain 2 : CH 46

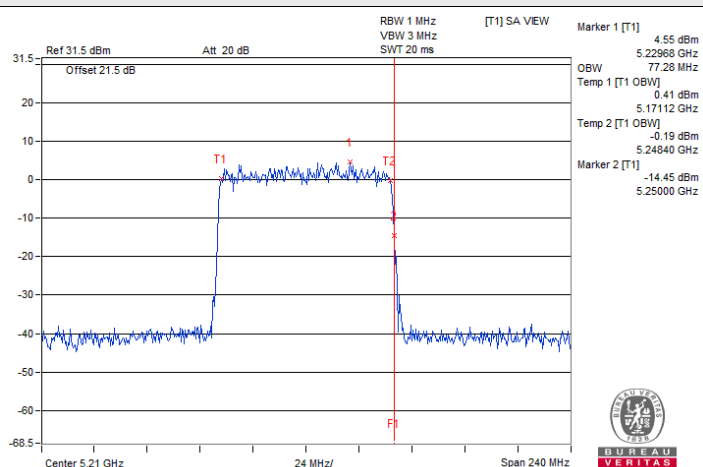


802.11ax (HE40) / Chain 3 : CH 46

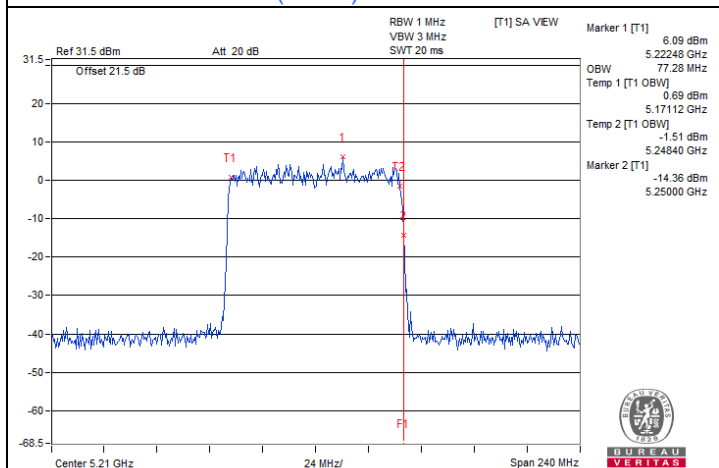
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



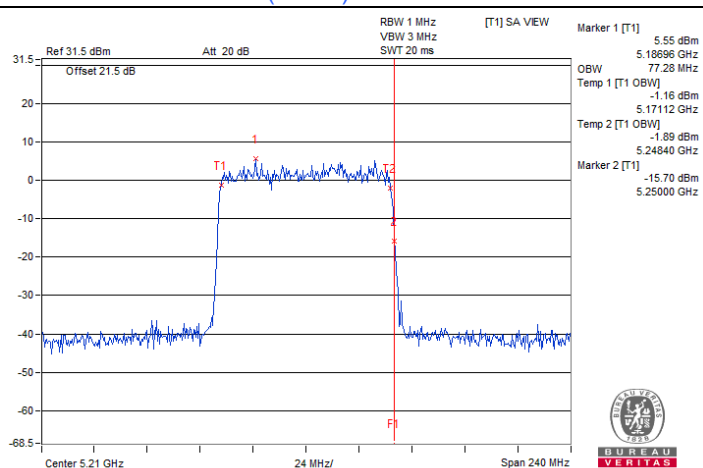
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

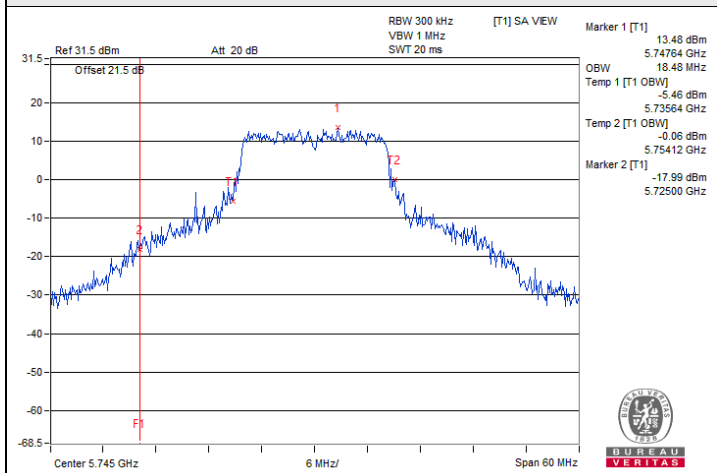


802.11ax (HE80) / Chain 2 : CH 42

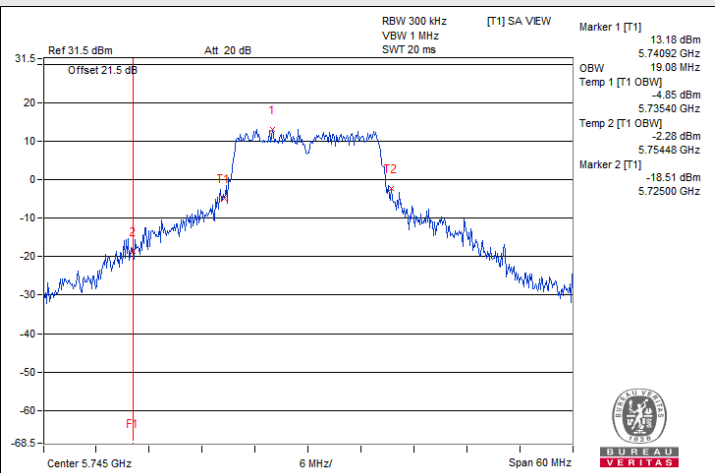


802.11ax (HE80) / Chain 3 : CH 42

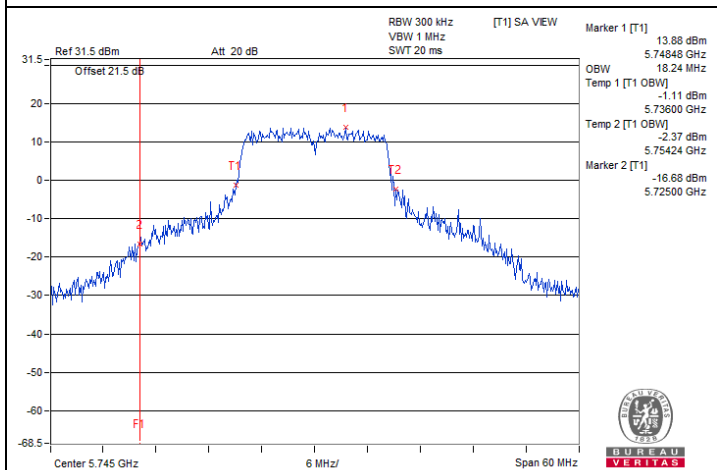
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



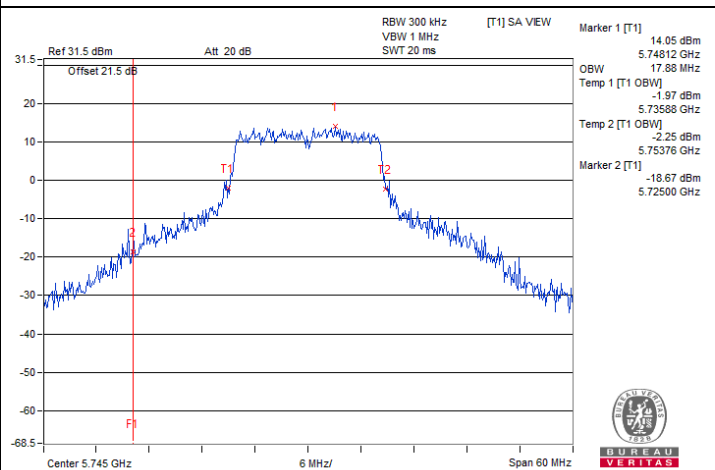
802.11a / Chain 0 : CH 149



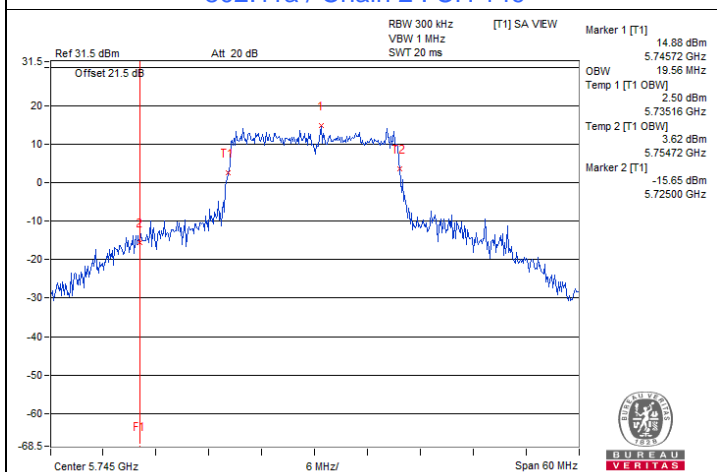
802.11a / Chain 1 : CH 149



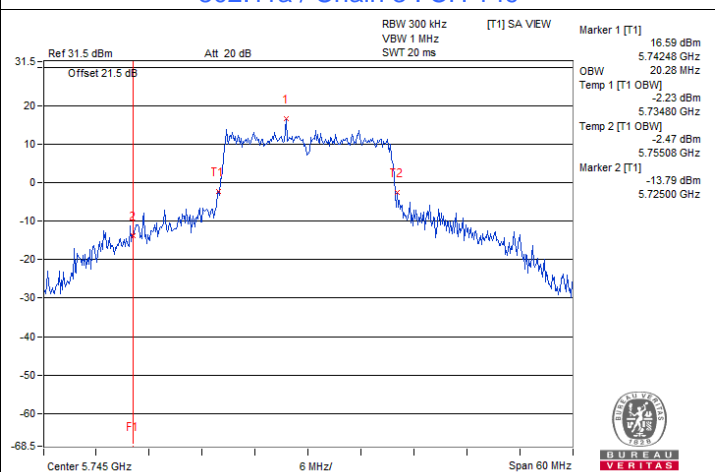
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149



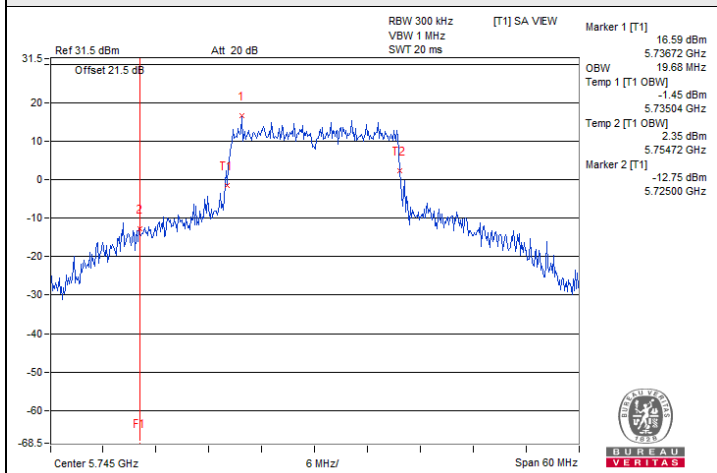
802.11ax (HE20) / Chain 0 : CH 149



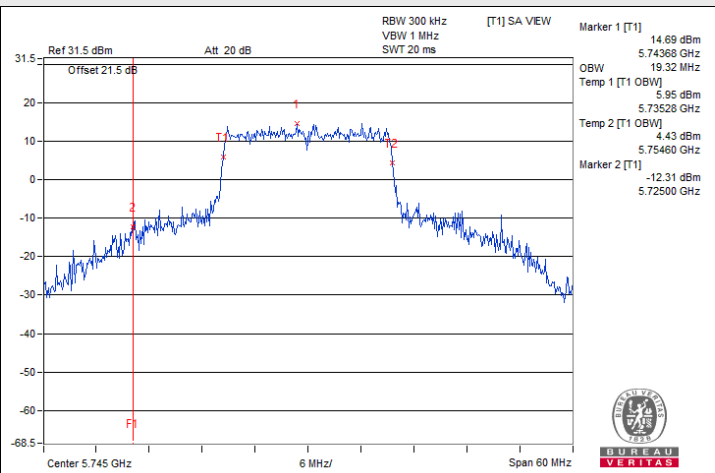
802.11ax (HE20) / Chain 1 : CH 149



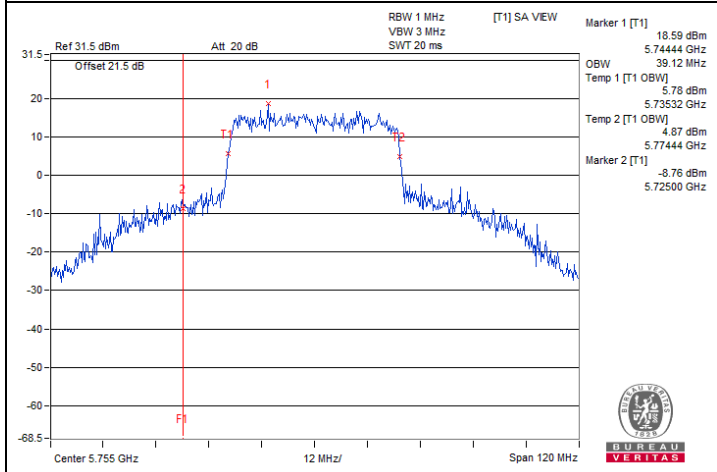
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



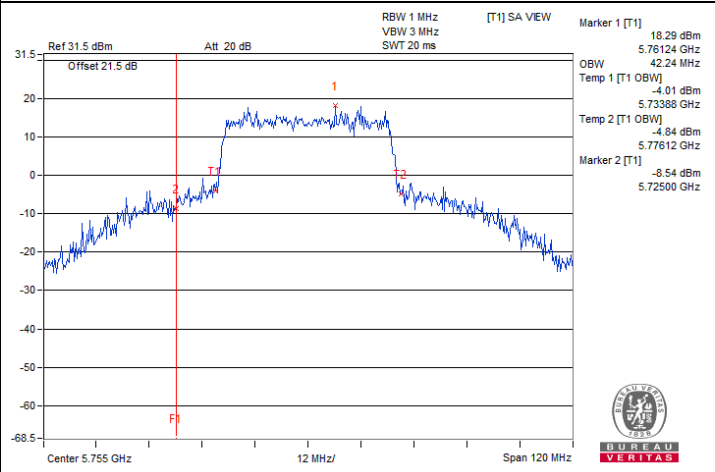
802.11ax (HE20) / Chain 2 : CH 149



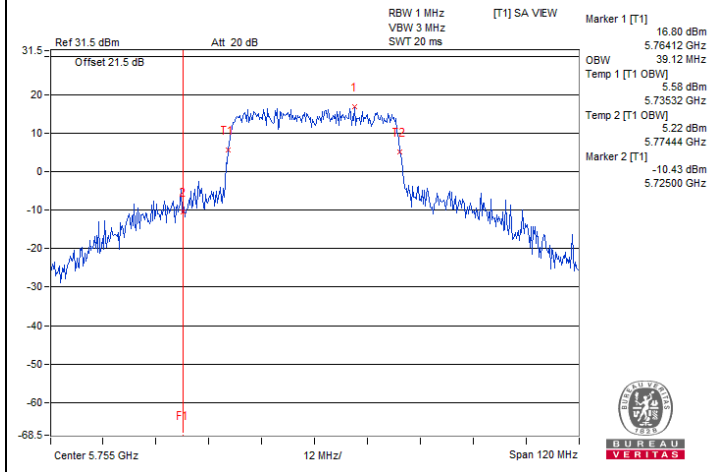
802.11ax (HE20) / Chain 3 : CH 149



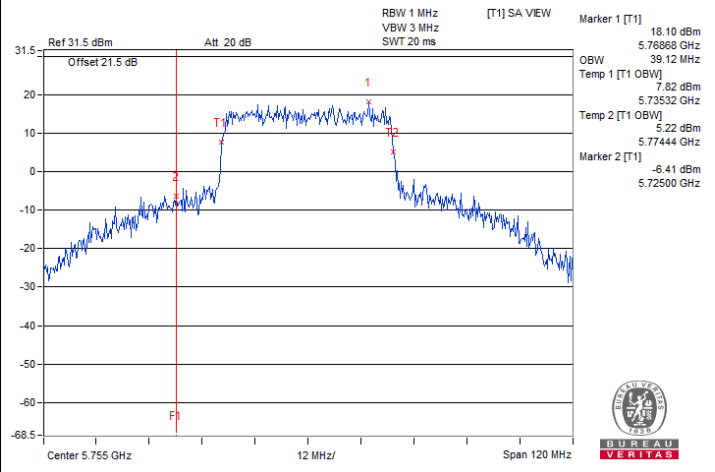
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

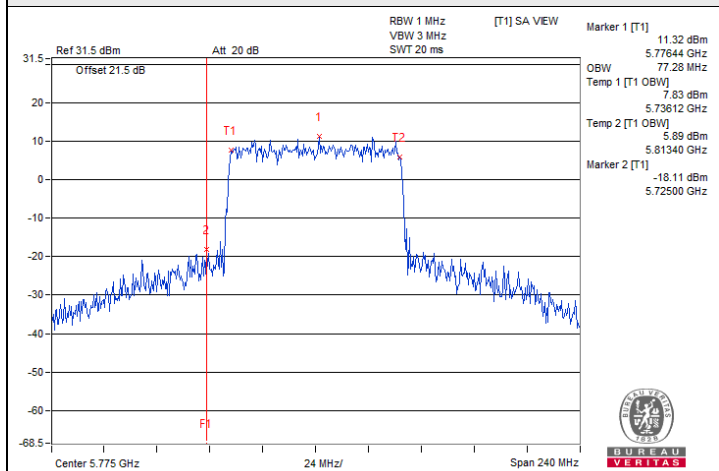


802.11ax (HE40) / Chain 2 : CH 151

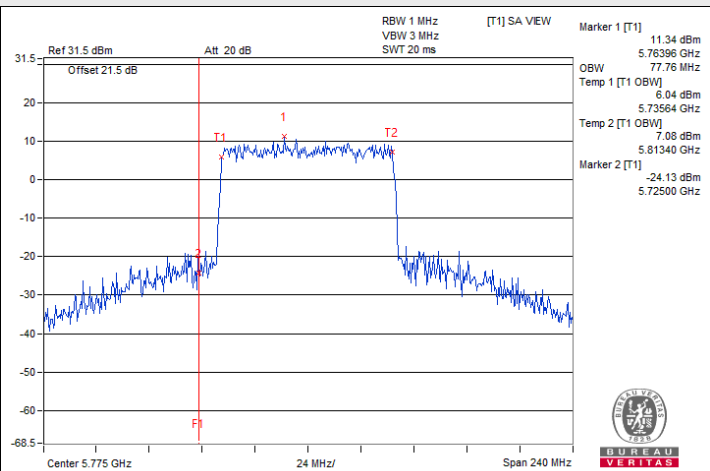


802.11ax (HE40) / Chain 3 : CH 151

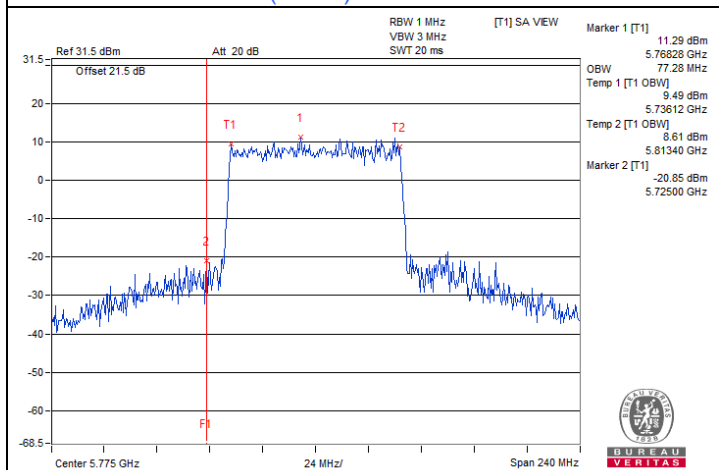
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



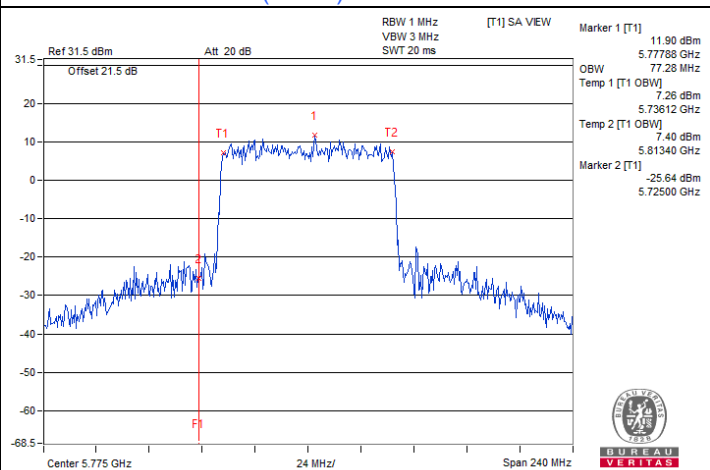
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

## 7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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### 802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	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	5180.006	Pass	5180.0078	Pass	5180.0081	Pass	5180.0091	Pass
30	120	5180.0201	Pass	5180.023	Pass	5180.0223	Pass	5180.0208	Pass
20	120	5180.0051	Pass	5180.0062	Pass	5180.0057	Pass	5180.005	Pass
10	120	5180.0142	Pass	5180.0112	Pass	5180.0135	Pass	5180.0134	Pass
0	120	5179.9846	Pass	5179.9895	Pass	5179.9885	Pass	5179.9851	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	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	5180.0221	Pass	5180.0222	Pass	5180.0211	Pass	5180.0218	Pass
	120	5180.0142	Pass	5180.0112	Pass	5180.0135	Pass	5180.0134	Pass
	102	5180.0155	Pass	5180.0169	Pass	5180.016	Pass	5180.0146	Pass

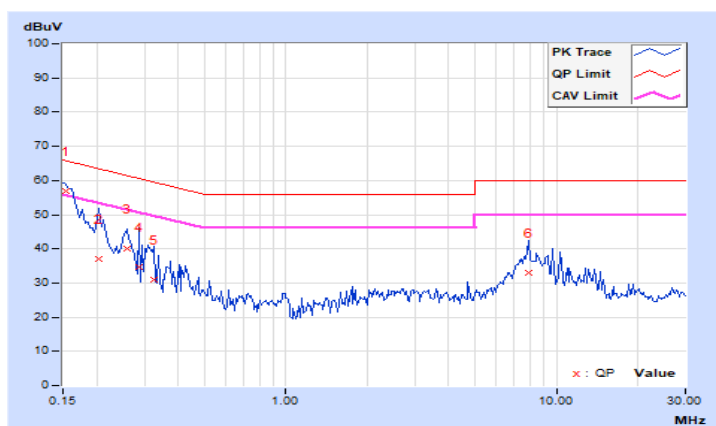
## 7.7 AC Power Conducted Emissions

RF Mode	TX 802.11ax (HE20)	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	25°C, 75% RH
Tested By	Ryan Du		

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	0.15391	10.07	46.93	27.02	57.00	37.09	65.79	55.79	-8.79	-18.70
2	0.20469	10.08	27.08	19.60	37.16	29.68	63.42	53.42	-26.26	-23.74
3	0.25938	10.09	30.05	5.13	40.14	15.22	61.45	51.45	-21.31	-36.23
4	0.28672	10.09	24.47	5.62	34.56	15.71	60.62	50.62	-26.06	-34.91
5	0.32578	10.10	21.00	4.16	31.10	14.26	59.56	49.56	-28.46	-35.30
6	7.89063	10.63	22.52	15.39	33.15	26.02	60.00	50.00	-26.85	-23.98

### 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

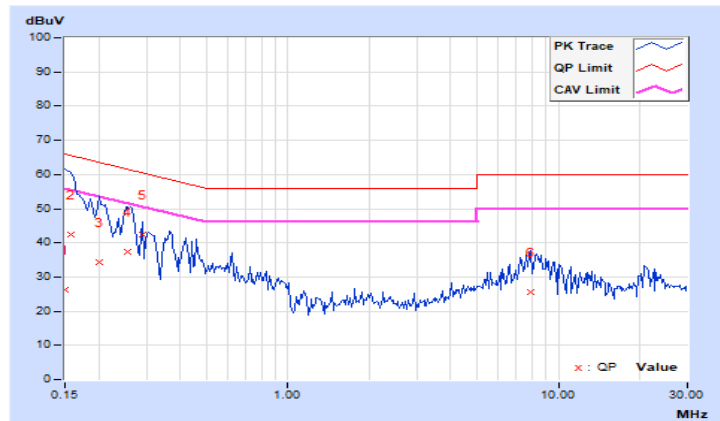


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.15002	10.05	16.24	7.96	26.29	18.01	66.00	56.00	-39.71	-37.99
2	0.15786	10.05	32.49	6.36	42.54	16.41	65.58	55.58	-23.04	-39.17
3	0.20065	10.08	24.33	23.89	34.41	33.97	63.58	53.58	-29.17	-19.61
4	0.25559	10.09	27.23	20.24	37.32	30.33	61.57	51.57	-24.25	-21.24
5	0.29076	10.09	32.46	9.77	42.55	19.86	60.50	50.50	-17.95	-30.64
6	7.93342	10.56	15.15	7.79	25.71	18.35	60.00	50.00	-34.29	-31.65

**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



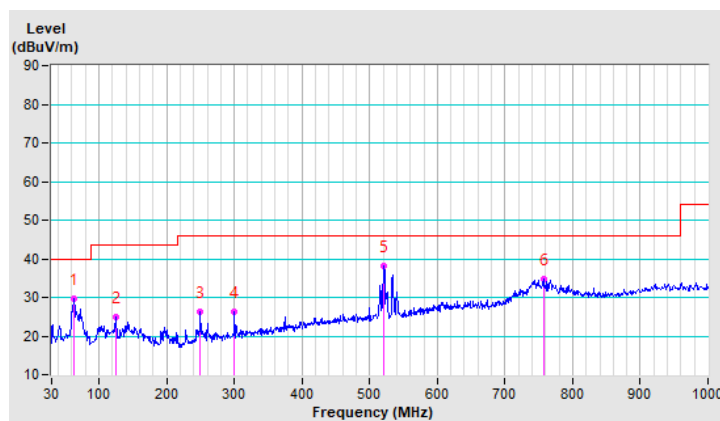
## 7.8 Unwanted Emissions below 1 GHz

<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 65% RH
<b>Tested By</b>	Nelson Teng		

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	62.96	29.6 QP	40.0	-10.4	2.00 H	88	39.0	-9.4
2	125.04	24.9 QP	43.5	-18.6	2.50 H	299	34.5	-9.6
3	250.02	26.4 QP	46.0	-19.6	1.00 H	74	36.0	-9.6
4	300.00	26.3 QP	46.0	-19.7	1.00 H	97	34.0	-7.7
5	520.92	38.3 QP	46.0	-7.7	1.50 H	71	40.5	-2.2
6	756.92	34.7 QP	46.0	-11.3	1.00 H	346	32.3	2.4

### 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.

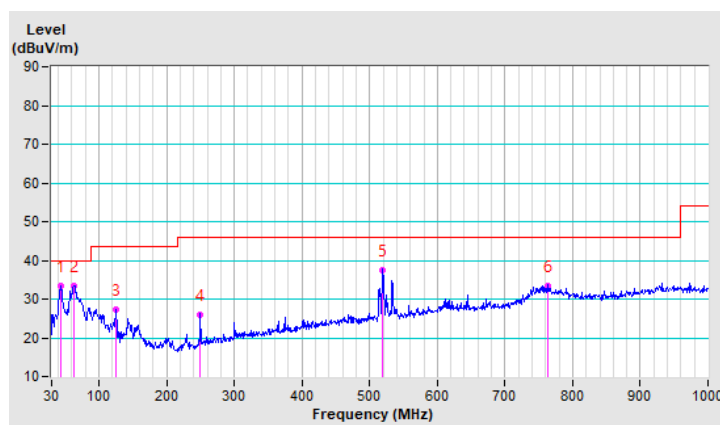


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 65% RH
<b>Tested By</b>	Nelson Teng		

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	43.41	33.5 QP	40.0	-6.5	1.00 V	288	41.8	-8.3
2	62.52	33.5 QP	40.0	-6.5	1.00 V	308	42.7	-9.2
3	124.74	27.4 QP	43.5	-16.1	1.00 V	38	37.1	-9.7
4	249.74	26.0 QP	46.0	-20.0	1.50 V	48	35.6	-9.6
5	518.72	37.5 QP	46.0	-8.5	1.00 V	5	39.9	-2.4
6	762.78	33.5 QP	46.0	-12.5	1.00 V	294	31.0	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 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.



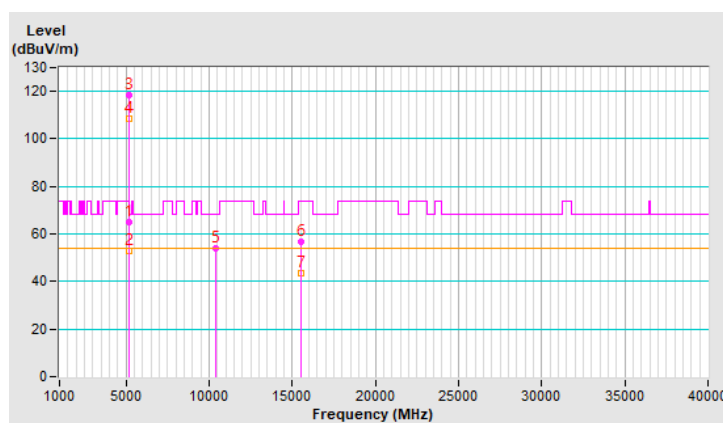
## 7.9 Unwanted Emissions above 1 GHz

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5148.91	64.9 PK	74.0	-9.1	2.17 H	95	60.1	4.8
2	5148.91	52.9 AV	54.0	-1.1	2.17 H	95	48.1	4.8
3	*5180.00	118.5 PK			2.17 H	95	113.8	4.7
4	*5180.00	108.5 AV			2.17 H	95	103.8	4.7
5	#10360.00	54.1 PK	68.2	-14.1	3.68 H	218	39.9	14.2
6	15540.00	56.9 PK	74.0	-17.1	1.74 H	184	42.5	14.4
7	15540.00	43.3 AV	54.0	-10.7	1.74 H	184	28.9	14.4

### 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.



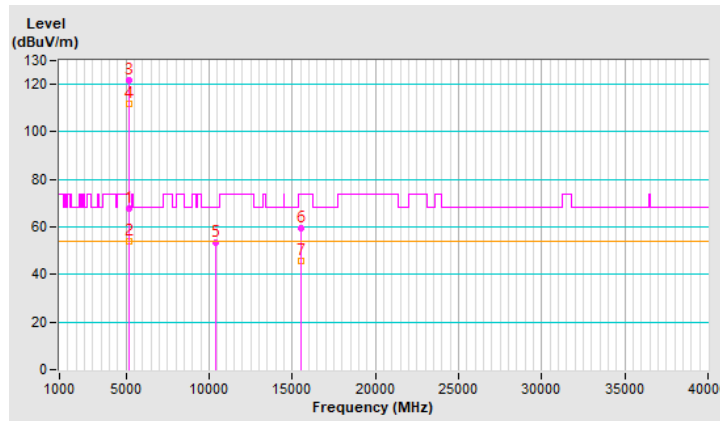


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5146.65	67.5 PK	74.0	-6.5	1.58 V	272	62.7	4.8
2	<b>5146.65</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.58 V</b>	<b>272</b>	<b>49.1</b>	<b>4.8</b>
3	*5180.00	121.6 PK			1.58 V	272	116.9	4.7
4	*5180.00	111.6 AV			1.58 V	272	106.9	4.7
5	#10360.00	53.2 PK	68.2	-15.0	1.84 V	308	39.0	14.2
6	15540.00	59.4 PK	74.0	-14.6	2.52 V	291	45.0	14.4
7	15540.00	45.5 AV	54.0	-8.5	2.52 V	291	31.1	14.4

**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.

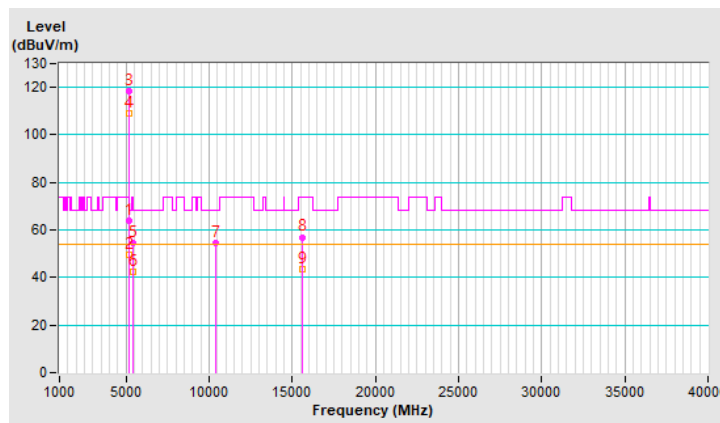


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5149.95	64.1 PK	74.0	-9.9	1.38 H	110	59.3	4.8
2	5149.95	49.5 AV	54.0	-4.5	1.38 H	110	44.7	4.8
3	*5200.00	118.6 PK			1.38 H	110	114.0	4.6
4	*5200.00	108.8 AV			1.38 H	110	104.2	4.6
5	5409.16	54.6 PK	74.0	-19.4	1.38 H	110	49.9	4.7
6	5409.16	42.6 AV	54.0	-11.4	1.38 H	110	37.9	4.7
7	#10400.00	54.7 PK	68.2	-13.5	3.72 H	212	40.5	14.2
8	15600.00	57.0 PK	74.0	-17.0	1.74 H	183	42.2	14.8
9	15600.00	43.6 AV	54.0	-10.4	1.74 H	183	28.8	14.8

**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.



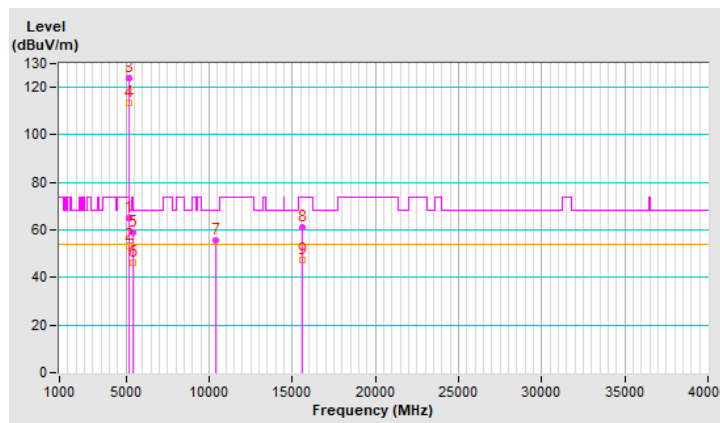
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5146.30	65.1 PK	74.0	-8.9	1.66 V	274	60.3	4.8
2	5146.30	53.3 AV	54.0	-0.7	1.66 V	274	48.5	4.8
3	*5200.00	123.7 PK			1.66 V	274	119.1	4.6
4	*5200.00	113.4 AV			1.66 V	274	108.8	4.6
5	5405.19	58.8 PK	74.0	-15.2	1.66 V	274	54.1	4.7
6	5405.19	46.5 AV	54.0	-7.5	1.66 V	274	41.8	4.7
7	#10400.00	55.6 PK	68.2	-12.6	1.87 V	321	41.4	14.2
8	15600.00	61.2 PK	74.0	-12.8	2.56 V	305	46.4	14.8
9	15600.00	47.5 AV	54.0	-6.5	2.56 V	305	32.7	14.8

**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.



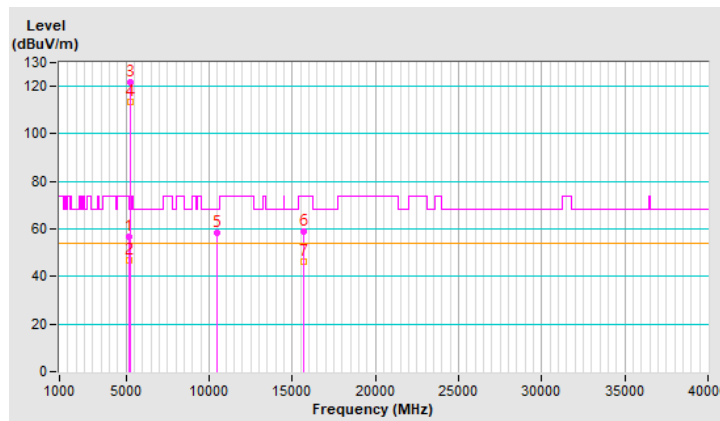
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	56.9 PK	74.0	-17.1	3.71 H	266	52.1	4.8
2	5150.00	46.7 AV	54.0	-7.3	3.71 H	266	41.9	4.8
3	*5240.00	121.5 PK			3.71 H	266	117.1	4.4
4	*5240.00	113.5 AV			3.71 H	266	109.1	4.4
5	#10480.00	58.2 PK	68.2	-10.0	3.75 H	234	43.8	14.4
6	15720.00	58.7 PK	74.0	-15.3	1.65 H	183	45.2	13.5
7	15720.00	46.3 AV	54.0	-7.7	1.65 H	183	32.8	13.5

**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.

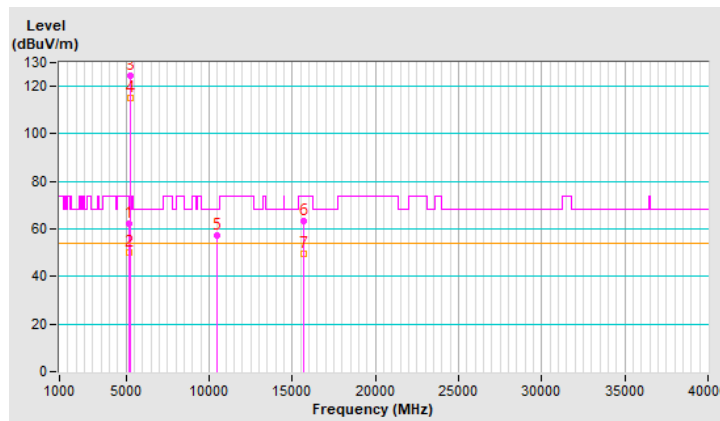


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	62.1 PK	74.0	-11.9	1.74 V	273	57.3	4.8
2	5150.00	50.3 AV	54.0	-3.7	1.74 V	273	45.5	4.8
3	*5240.00	124.4 PK			1.74 V	273	120.0	4.4
4	*5240.00	115.0 AV			1.74 V	273	110.6	4.4
5	#10480.00	57.4 PK	68.2	-10.8	1.84 V	327	43.0	14.4
6	15720.00	63.4 PK	74.0	-10.6	2.61 V	310	49.9	13.5
7	15720.00	49.7 AV	54.0	-4.3	2.61 V	310	36.2	13.5

**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.

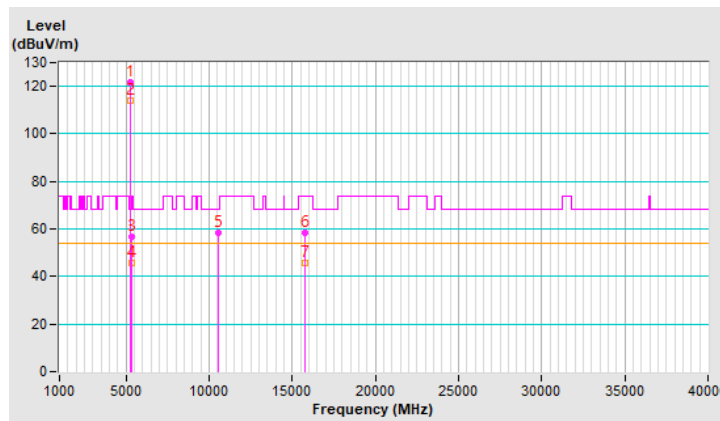


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	*5260.00	121.8 PK			3.69 H	274	117.4	4.4
2	*5260.00	114.2 AV			3.69 H	274	109.8	4.4
3	5350.00	56.5 PK	74.0	-17.5	3.69 H	274	51.9	4.6
4	5350.00	45.6 AV	54.0	-8.4	3.69 H	274	41.0	4.6
5	#10520.00	58.5 PK	68.2	-9.7	3.74 H	220	44.1	14.4
6	15780.00	58.2 PK	74.0	-15.8	1.67 H	193	44.6	13.6
7	15780.00	45.7 AV	54.0	-8.3	1.67 H	193	32.1	13.6

**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.



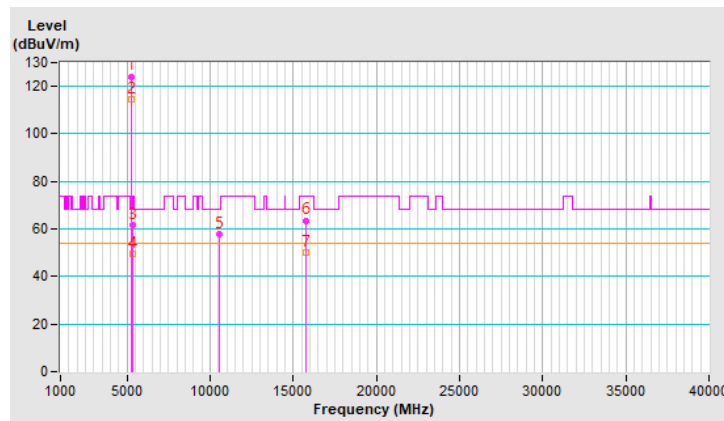
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	*5260.00	124.2 PK			1.68 V	277	119.8	4.4
2	*5260.00	114.7 AV			1.68 V	277	110.3	4.4
3	5350.00	61.5 PK	74.0	-12.5	1.68 V	277	56.9	4.6
4	5350.00	49.7 AV	54.0	-4.3	1.68 V	277	45.1	4.6
5	#10520.00	57.9 PK	68.2	-10.3	1.79 V	333	43.5	14.4
6	15780.00	63.6 PK	74.0	-10.4	2.58 V	296	50.0	13.6
7	15780.00	50.0 AV	54.0	-4.0	2.58 V	296	36.4	13.6

**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.



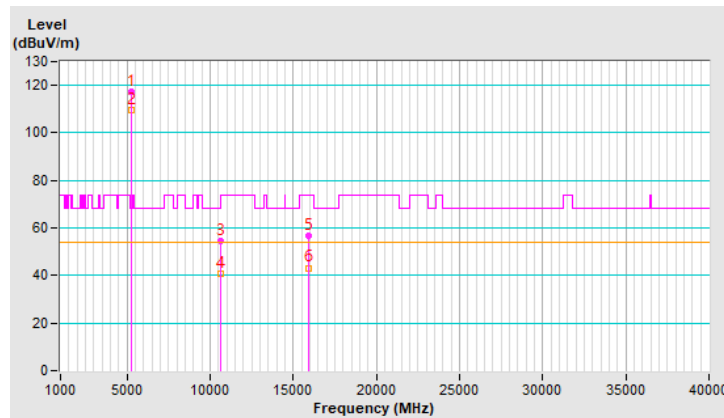
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	117.2 PK			3.46 H	268	112.9	4.3
2	*5300.00	109.7 AV			3.46 H	268	105.4	4.3
3	10600.00	54.5 PK	74.0	-19.5	3.68 H	225	40.3	14.2
4	10600.00	40.7 AV	54.0	-13.3	3.68 H	225	26.5	14.2
5	15900.00	56.9 PK	74.0	-17.1	1.72 H	177	43.1	13.8
6	15900.00	43.2 AV	54.0	-10.8	1.72 H	177	29.4	13.8

**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.



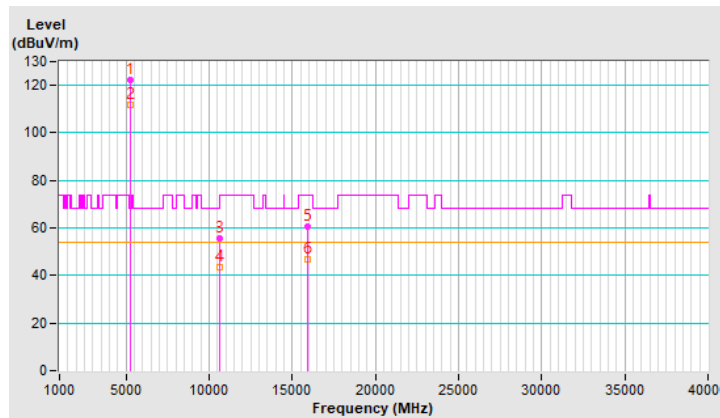


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	122.4 PK			1.65 V	274	118.1	4.3
2	*5300.00	111.8 AV			1.65 V	274	107.5	4.3
3	10600.00	55.6 PK	74.0	-18.4	1.82 V	318	41.4	14.2
4	10600.00	43.3 AV	54.0	-10.7	1.82 V	318	29.1	14.2
5	15900.00	60.7 PK	74.0	-13.3	2.59 V	307	46.9	13.8
6	15900.00	47.0 AV	54.0	-7.0	2.59 V	307	33.2	13.8

**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.



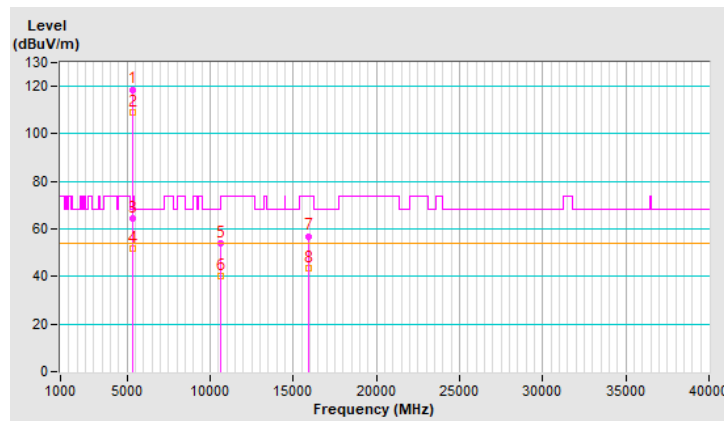
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	118.7 PK			2.16 H	99	114.2	4.5
2	*5320.00	109.1 AV			2.16 H	99	104.6	4.5
3	5350.00	64.4 PK	74.0	-9.6	2.16 H	99	59.8	4.6
4	5350.00	51.9 AV	54.0	-2.1	2.16 H	99	47.3	4.6
5	10640.00	54.0 PK	74.0	-20.0	3.69 H	235	39.7	14.3
6	10640.00	40.2 AV	54.0	-13.8	3.69 H	235	25.9	14.3
7	15960.00	57.0 PK	74.0	-17.0	1.75 H	175	43.1	13.9
8	15960.00	43.5 AV	54.0	-10.5	1.75 H	175	29.6	13.9

**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.



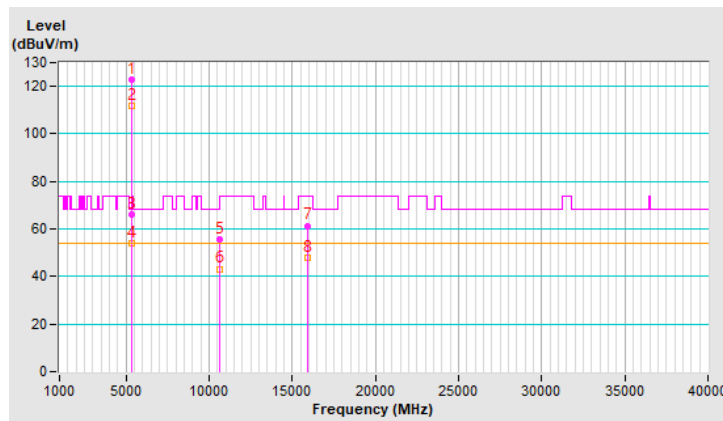
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	122.6 PK			1.52 V	268	118.1	4.5
2	*5320.00	112.0 AV			1.52 V	268	107.5	4.5
3	5350.00	66.1 PK	74.0	-7.9	1.52 V	268	61.5	4.6
4	5350.00	53.8 AV	54.0	-0.2	1.52 V	268	49.2	4.6
5	10640.00	55.6 PK	74.0	-18.4	1.83 V	336	41.3	14.3
6	10640.00	43.2 AV	54.0	-10.8	1.83 V	336	28.9	14.3
7	15960.00	61.4 PK	74.0	-12.6	2.59 V	296	47.5	13.9
8	15960.00	47.7 AV	54.0	-6.3	2.59 V	296	33.8	13.9

**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.

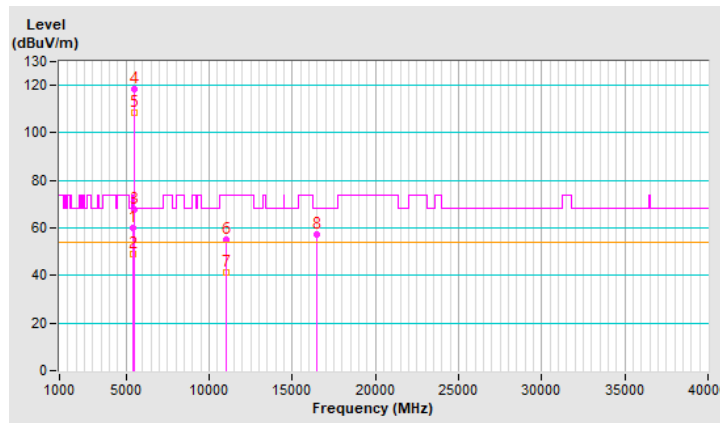


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5456.42	60.0 PK	74.0	-14.0	2.07 H	95	55.2	4.8
2	5456.42	49.1 AV	54.0	-4.9	2.07 H	95	44.3	4.8
3	#5468.59	67.5 PK	68.2	-0.7	2.07 H	95	62.7	4.8
4	*5500.00	118.3 PK			2.07 H	95	113.5	4.8
5	*5500.00	108.7 AV			2.07 H	95	103.9	4.8
6	11000.00	55.2 PK	74.0	-18.8	3.84 H	216	40.4	14.8
7	11000.00	41.1 AV	54.0	-12.9	3.84 H	216	26.3	14.8
8	#16500.00	57.1 PK	68.2	-11.1	1.71 H	188	41.8	15.3

**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.

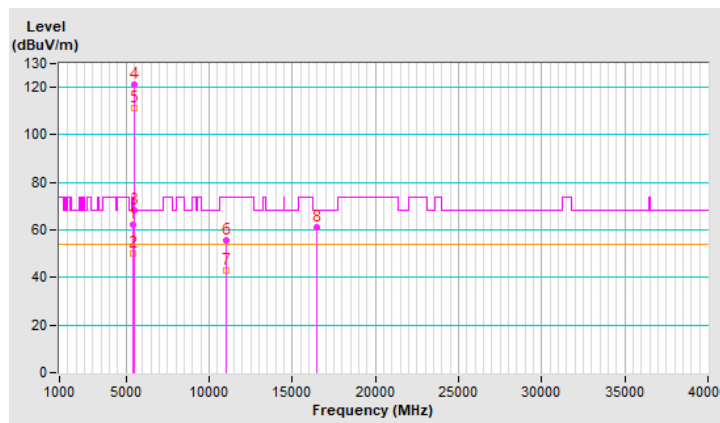


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5459.10	62.4 PK	74.0	-11.6	1.63 V	267	57.6	4.8
2	5459.10	50.3 AV	54.0	-3.7	1.63 V	267	45.5	4.8
<b>3</b>	<b>#5468.95</b>	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.63 V</b>	<b>267</b>	<b>63.3</b>	<b>4.8</b>
4	*5500.00	121.3 PK			1.63 V	267	116.5	4.8
5	*5500.00	111.3 AV			1.63 V	267	106.5	4.8
6	11000.00	55.6 PK	74.0	-18.4	1.83 V	324	40.8	14.8
7	11000.00	43.0 AV	54.0	-11.0	1.83 V	324	28.2	14.8
8	#16500.00	61.2 PK	68.2	-7.0	2.53 V	302	45.9	15.3

**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.



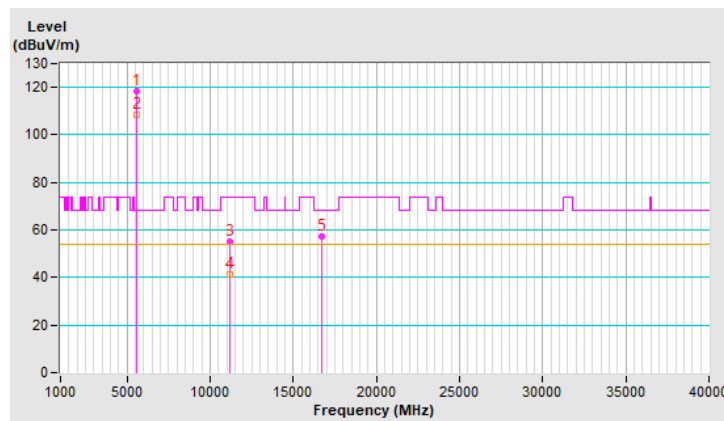
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	118.3 PK			2.12 H	102	113.5	4.8
2	*5580.00	108.5 AV			2.12 H	102	103.7	4.8
3	11160.00	55.3 PK	74.0	-18.7	3.78 H	206	40.7	14.6
4	11160.00	41.1 AV	54.0	-12.9	3.78 H	206	26.5	14.6
5	#16740.00	57.2 PK	68.2	-11.0	1.71 H	180	40.4	16.8

**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.

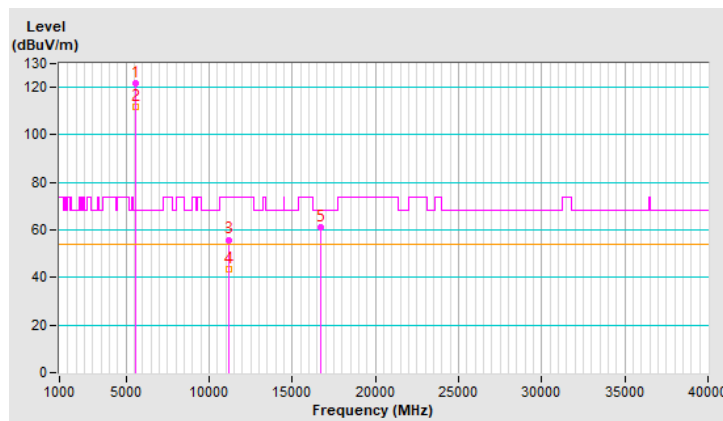


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	121.9 PK			1.57 V	269	117.1	4.8
2	*5580.00	111.7 AV			1.57 V	269	106.9	4.8
3	11160.00	55.9 PK	74.0	-18.1	1.82 V	336	41.3	14.6
4	11160.00	43.6 AV	54.0	-10.4	1.82 V	336	29.0	14.6
5	#16740.00	61.3 PK	68.2	-6.9	2.55 V	321	44.5	16.8

**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.



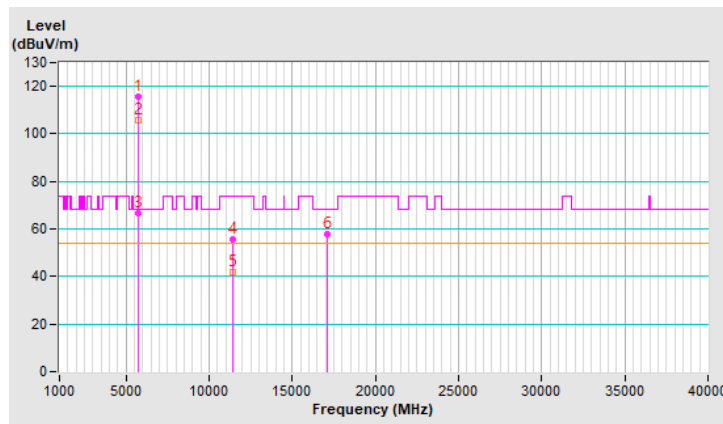
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	115.5 PK			2.03 H	103	110.8	4.7
2	*5700.00	105.7 AV			2.03 H	103	101.0	4.7
3	#5725.00	66.4 PK	68.2	-1.8	2.03 H	103	61.5	4.9
4	11400.00	55.5 PK	74.0	-18.5	3.78 H	203	40.1	15.4
5	11400.00	41.6 AV	54.0	-12.4	3.78 H	203	26.2	15.4
6	#17100.00	57.7 PK	68.2	-10.5	1.70 H	184	39.2	18.5

**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.



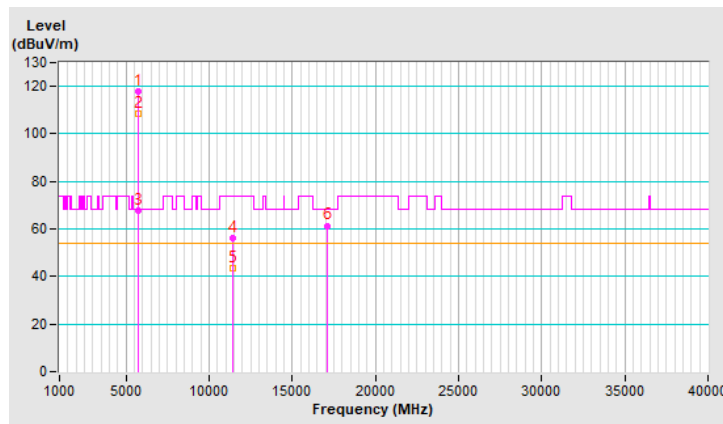


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	117.8 PK			1.63 V	252	113.1	4.7
2	*5700.00	108.3 AV			1.63 V	252	103.6	4.7
3	#5725.00	67.9 PK	68.2	-0.3	1.63 V	252	63.0	4.9
4	11400.00	56.0 PK	74.0	-18.0	1.78 V	347	40.6	15.4
5	11400.00	43.6 AV	54.0	-10.4	1.78 V	347	28.2	15.4
6	#17100.00	61.4 PK	68.2	-6.8	2.50 V	311	42.9	18.5

**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.



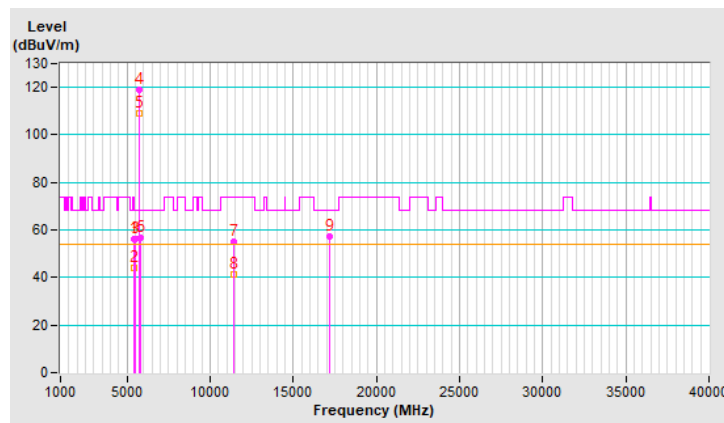
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	56.0 PK	74.0	-18.0	2.49 H	281	51.2	4.8
2	5460.00	44.2 AV	54.0	-9.8	2.49 H	281	39.4	4.8
3	#5470.00	56.3 PK	68.2	-11.9	2.49 H	281	51.5	4.8
4	*5720.00	118.9 PK			2.49 H	281	114.1	4.8
5	*5720.00	109.0 AV			2.49 H	281	104.2	4.8
6	#5850.00	56.5 PK	68.2	-11.7	2.49 H	281	51.2	5.3
7	11440.00	55.3 PK	74.0	-18.7	3.78 H	217	40.0	15.3
8	11440.00	41.2 AV	54.0	-12.8	3.78 H	217	25.9	15.3
9	#17160.00	57.1 PK	68.2	-11.1	1.71 H	182	38.8	18.3

**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.

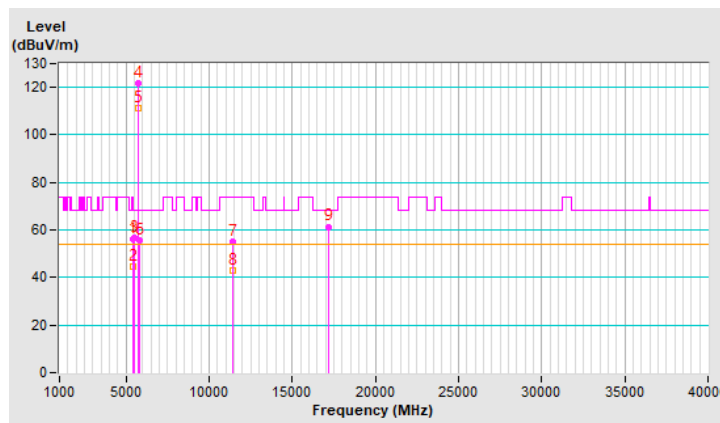


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	56.1 PK	74.0	-17.9	1.67 V	271	51.3	4.8
2	5460.00	44.6 AV	54.0	-9.4	1.67 V	271	39.8	4.8
3	#5470.00	56.8 PK	68.2	-11.4	1.67 V	271	52.0	4.8
4	*5720.00	121.8 PK			1.67 V	271	117.0	4.8
5	*5720.00	111.5 AV			1.67 V	271	106.7	4.8
6	#5850.00	55.8 PK	68.2	-12.4	1.67 V	271	50.5	5.3
7	11440.00	55.2 PK	74.0	-18.8	1.83 V	325	39.9	15.3
8	11440.00	43.1 AV	54.0	-10.9	1.83 V	325	27.8	15.3
9	#17160.00	61.4 PK	68.2	-6.8	2.56 V	295	43.1	18.3

**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.



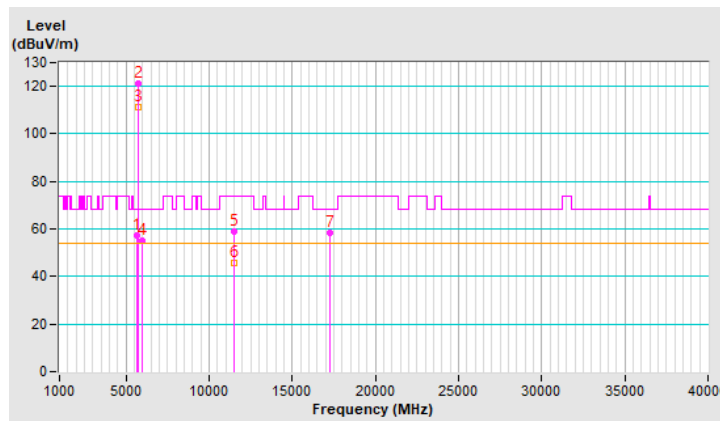
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	57.2 PK	68.2	-11.0	1.47 H	221	52.3	4.9
2	*5745.00	121.4 PK			1.47 H	221	116.3	5.1
3	*5745.00	111.5 AV			1.47 H	221	106.4	5.1
4	#5939.96	55.0 PK	68.2	-13.2	1.47 H	221	49.5	5.5
5	11490.00	58.7 PK	74.0	-15.3	3.72 H	220	43.6	15.1
6	11490.00	45.8 AV	54.0	-8.2	3.72 H	220	30.7	15.1
7	#17235.00	58.5 PK	68.2	-9.7	1.69 H	192	40.2	18.3

**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.

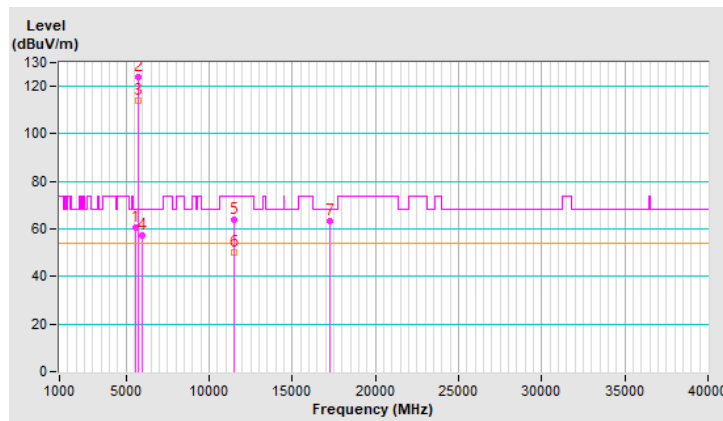


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5575.48	60.7 PK	68.2	-7.5	1.67 V	254	55.9	4.8
2	*5745.00	123.9 PK			1.67 V	254	118.8	5.1
3	*5745.00	114.1 AV			1.67 V	254	109.0	5.1
4	#5944.44	57.4 PK	68.2	-10.8	1.67 V	254	51.9	5.5
5	11490.00	63.9 PK	74.0	-10.1	1.80 V	265	48.8	15.1
6	11490.00	50.2 AV	54.0	-3.8	1.80 V	265	35.1	15.1
7	#17235.00	63.2 PK	68.2	-5.0	2.44 V	318	44.9	18.3

**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.



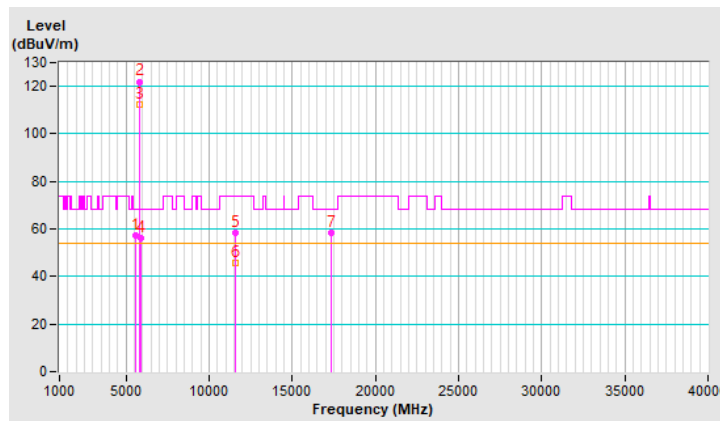
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5562.87	57.2 PK	68.2	-11.0	1.49 H	224	52.4	4.8
2	*5785.00	122.0 PK			1.49 H	224	116.8	5.2
3	*5785.00	112.4 AV			1.49 H	224	107.2	5.2
4	#5931.52	56.3 PK	68.2	-11.9	1.49 H	224	50.8	5.5
5	11570.00	58.6 PK	74.0	-15.4	3.76 H	204	43.5	15.1
6	11570.00	45.9 AV	54.0	-8.1	3.76 H	204	30.8	15.1
7	#17355.00	58.6 PK	68.2	-9.6	1.74 H	182	39.7	18.9

**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.



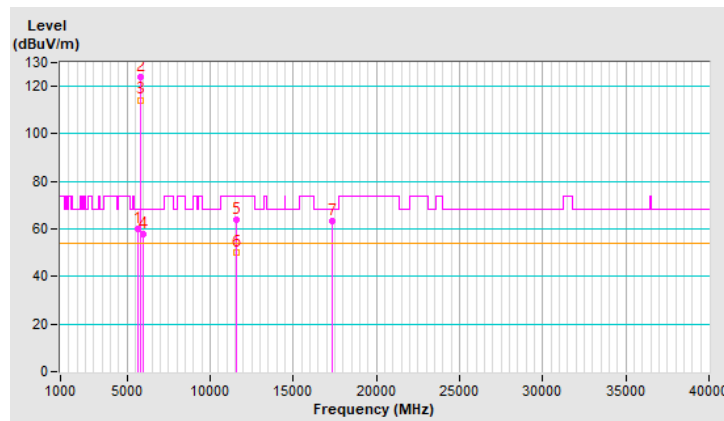
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5646.69	59.8 PK	68.2	-8.4	1.65 V	254	54.9	4.9
2	*5785.00	124.0 PK			1.65 V	254	118.8	5.2
3	*5785.00	114.3 AV			1.65 V	254	109.1	5.2
4	#5939.95	57.7 PK	68.2	-10.5	1.65 V	254	52.2	5.5
5	11570.00	63.8 PK	74.0	-10.2	1.88 V	287	48.7	15.1
6	11570.00	50.2 AV	54.0	-3.8	1.88 V	287	35.1	15.1
7	#17355.00	63.4 PK	68.2	-4.8	2.41 V	332	44.5	18.9

**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.

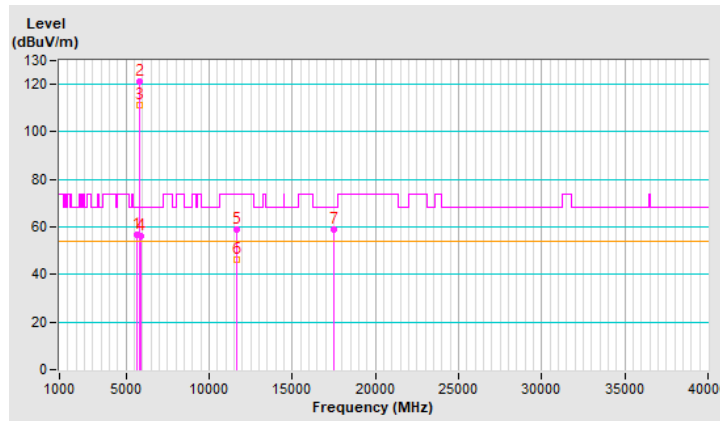


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5628.53	56.8 PK	68.2	-11.4	1.48 H	220	51.9	4.9
2	*5825.00	121.4 PK			1.48 H	220	116.1	5.3
3	*5825.00	111.3 AV			1.48 H	220	106.0	5.3
4	#5925.40	56.0 PK	68.2	-12.2	1.48 H	220	50.5	5.5
5	11650.00	59.1 PK	74.0	-14.9	3.71 H	236	44.1	15.0
6	11650.00	46.1 AV	54.0	-7.9	3.71 H	236	31.1	15.0
7	#17475.00	58.7 PK	68.2	-9.5	1.63 H	176	39.7	19.0

**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.



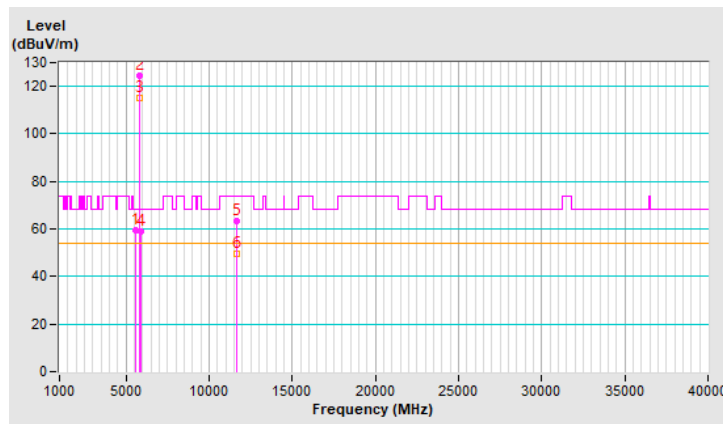


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5604.22	59.5 PK	68.2	-8.7	1.63 V	254	54.5	5.0
2	*5825.00	124.7 PK			1.63 V	254	119.4	5.3
3	*5825.00	115.0 AV			1.63 V	254	109.7	5.3
4	#5932.47	58.7 PK	68.2	-9.5	1.63 V	254	53.2	5.5
5	11650.00	63.3 PK	74.0	-10.7	1.90 V	277	48.3	15.0
6	11650.00	49.8 AV	54.0	-4.2	1.90 V	277	34.8	15.0

**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.



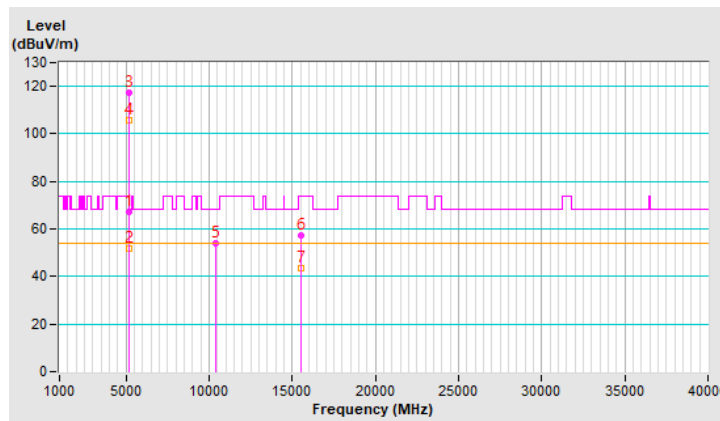
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.65	67.4 PK	74.0	-6.6	2.17 H	93	62.6	4.8
2	5148.65	51.9 AV	54.0	-2.1	2.17 H	93	47.1	4.8
3	*5180.00	117.2 PK			2.17 H	93	112.5	4.7
4	*5180.00	105.5 AV			2.17 H	93	100.8	4.7
5	#10360.00	53.9 PK	68.2	-14.3	3.62 H	226	39.7	14.2
6	15540.00	57.2 PK	74.0	-16.8	1.77 H	171	42.8	14.4
7	15540.00	43.3 AV	54.0	-10.7	1.77 H	171	28.9	14.4

**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.



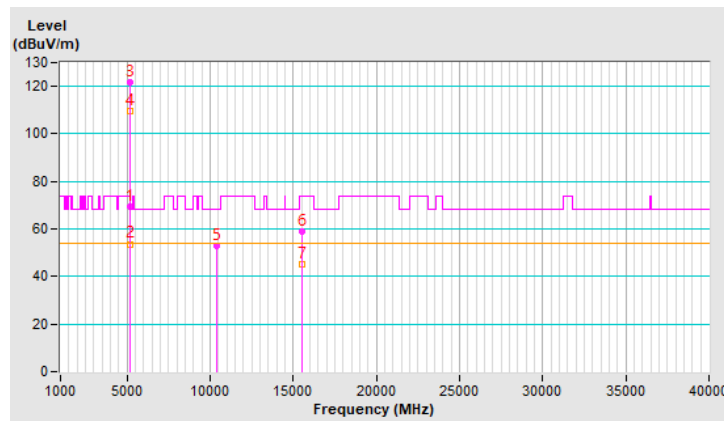
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.67	69.4 PK	74.0	-4.6	2.14 V	96	64.6	4.8
2	5148.67	53.7 AV	54.0	-0.3	2.14 V	96	48.9	4.8
3	*5180.00	121.6 PK			2.14 V	96	116.9	4.7
4	*5180.00	109.7 AV			2.14 V	96	105.0	4.7
5	#10360.00	52.8 PK	68.2	-15.4	1.86 V	312	38.6	14.2
6	15540.00	58.9 PK	74.0	-15.1	2.48 V	306	44.5	14.4
7	15540.00	45.0 AV	54.0	-9.0	2.48 V	306	30.6	14.4

**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.

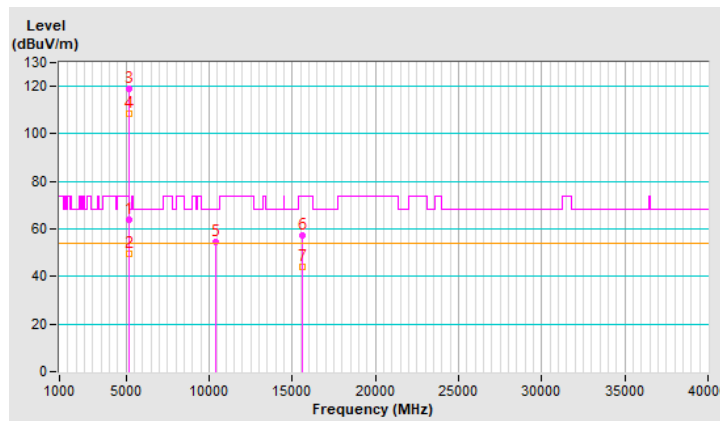


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	64.1 PK	74.0	-9.9	1.41 H	110	59.3	4.8
2	5150.00	49.8 AV	54.0	-4.2	1.41 H	110	45.0	4.8
3	*5200.00	118.8 PK			1.41 H	110	114.2	4.6
4	*5200.00	108.7 AV			1.41 H	110	104.1	4.6
5	#10400.00	54.6 PK	68.2	-13.6	3.73 H	224	40.4	14.2
6	15600.00	57.4 PK	74.0	-16.6	1.76 H	191	42.6	14.8
7	15600.00	43.8 AV	54.0	-10.2	1.76 H	191	29.0	14.8

**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.



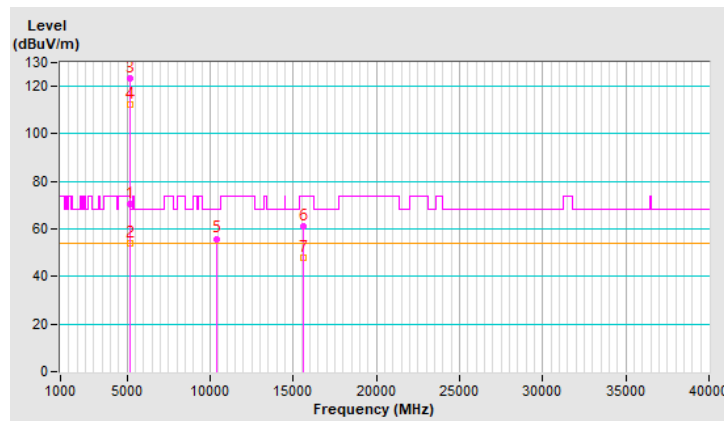
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	70.7 PK	74.0	-3.3	1.73 V	95	65.9	4.8
2	5150.00	53.8 AV	54.0	-0.2	1.73 V	95	49.0	4.8
3	*5200.00	123.4 PK			1.73 V	95	118.8	4.6
4	*5200.00	112.2 AV			1.73 V	95	107.6	4.6
5	#10400.00	55.9 PK	68.2	-12.3	1.90 V	313	41.7	14.2
6	15600.00	61.3 PK	74.0	-12.7	2.55 V	296	46.5	14.8
7	15600.00	47.7 AV	54.0	-6.3	2.55 V	296	32.9	14.8

**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.



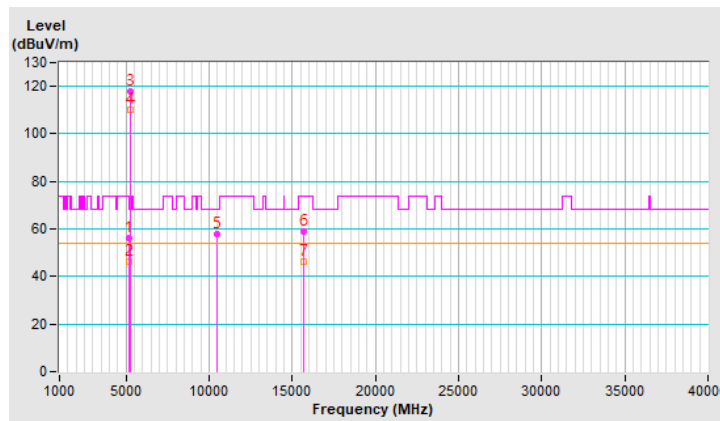
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	56.2 PK	74.0	-17.8	3.72 H	259	51.4	4.8
2	5150.00	46.2 AV	54.0	-7.8	3.72 H	259	41.4	4.8
3	*5240.00	118.1 PK			3.74 H	259	113.7	4.4
4	*5240.00	110.1 AV			3.74 H	259	105.7	4.4
5	#10480.00	58.0 PK	68.2	-10.2	3.80 H	233	43.6	14.4
6	15720.00	59.0 PK	74.0	-15.0	1.69 H	175	45.5	13.5
7	15720.00	46.4 AV	54.0	-7.6	1.69 H	175	32.9	13.5

**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.

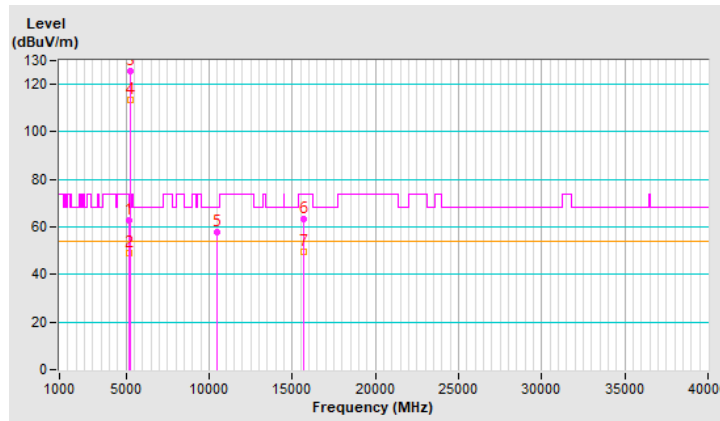


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	1.67 V	97	58.1	4.8
2	5150.00	48.9 AV	54.0	-5.1	1.67 V	97	44.1	4.8
3	*5240.00	125.5 PK			1.67 V	97	121.1	4.4
4	*5240.00	113.5 AV			1.67 V	97	109.1	4.4
5	#10480.00	57.8 PK	68.2	-10.4	1.88 V	322	43.4	14.4
6	15720.00	63.2 PK	74.0	-10.8	2.56 V	310	49.7	13.5
7	15720.00	49.7 AV	54.0	-4.3	2.56 V	310	36.2	13.5

**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.



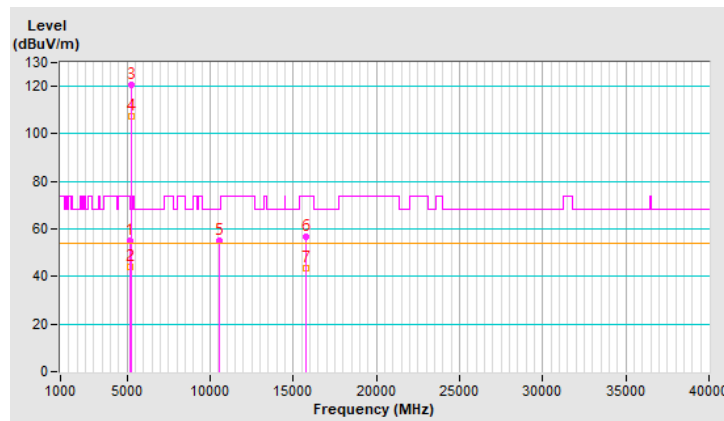
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	55.1 PK	74.0	-18.9	3.71 H	265	50.3	4.8
2	5150.00	44.2 AV	54.0	-9.8	3.71 H	265	39.4	4.8
3	*5260.00	120.5 PK			3.71 H	265	116.1	4.4
4	*5260.00	107.2 AV			3.71 H	265	102.8	4.4
5	#10520.00	55.0 PK	68.2	-13.2	3.65 H	217	40.6	14.4
6	15780.00	56.9 PK	74.0	-17.1	1.71 H	185	43.3	13.6
7	15780.00	43.4 AV	54.0	-10.6	1.71 H	185	29.8	13.6

**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.



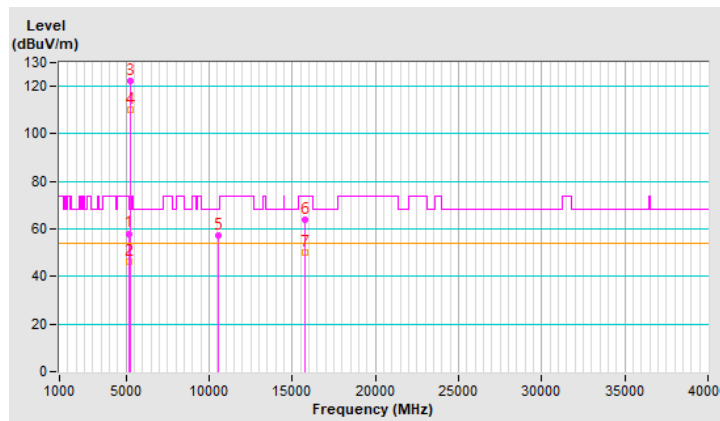


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	58.1 PK	74.0	-15.9	1.70 V	292	53.3	4.8
2	5150.00	46.1 AV	54.0	-7.9	1.70 V	292	41.3	4.8
3	*5260.00	122.3 PK			1.70 V	292	117.9	4.4
4	*5260.00	110.0 AV			1.70 V	292	105.6	4.4
5	#10520.00	57.4 PK	68.2	-10.8	1.76 V	317	43.0	14.4
6	15780.00	63.9 PK	74.0	-10.1	2.57 V	282	50.3	13.6
7	15780.00	50.3 AV	54.0	-3.7	2.57 V	282	36.7	13.6

**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.



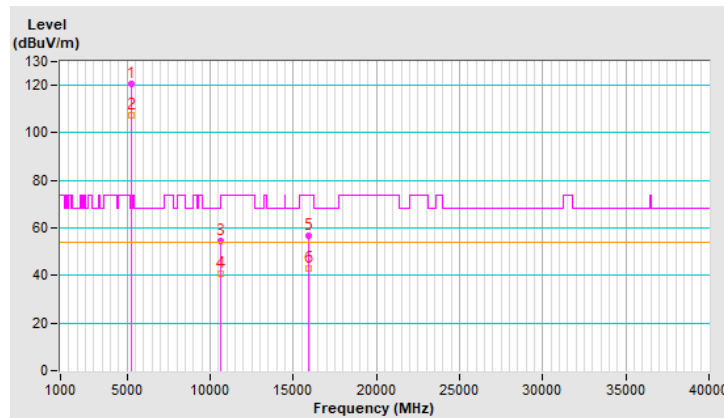
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	120.5 PK			3.72 H	253	116.2	4.3
2	*5300.00	107.3 AV			3.72 H	253	103.0	4.3
3	10600.00	54.5 PK	74.0	-19.5	3.72 H	232	40.3	14.2
4	10600.00	40.8 AV	54.0	-13.2	3.72 H	232	26.6	14.2
5	15900.00	56.8 PK	74.0	-17.2	1.72 H	191	43.0	13.8
6	15900.00	43.0 AV	54.0	-11.0	1.72 H	191	29.2	13.8

**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.

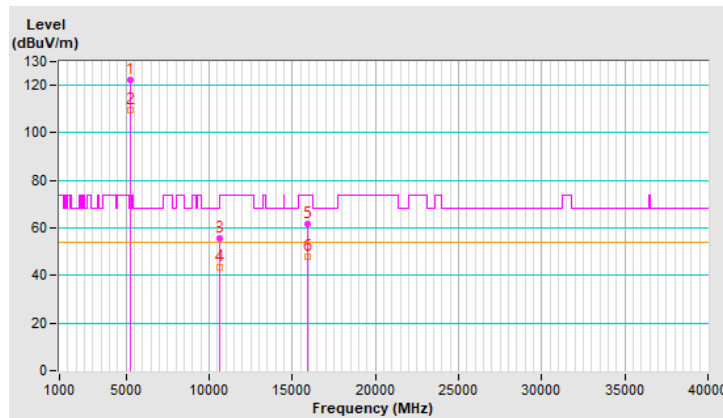


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	122.3 PK			1.73 V	303	118.0	4.3
2	*5300.00	109.8 AV			1.73 V	303	105.5	4.3
3	10600.00	55.6 PK	74.0	-18.4	1.82 V	332	41.4	14.2
4	10600.00	43.4 AV	54.0	-10.6	1.82 V	332	29.2	14.2
5	15900.00	61.7 PK	74.0	-12.3	2.64 V	309	47.9	13.8
6	15900.00	47.9 AV	54.0	-6.1	2.64 V	309	34.1	13.8

**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.



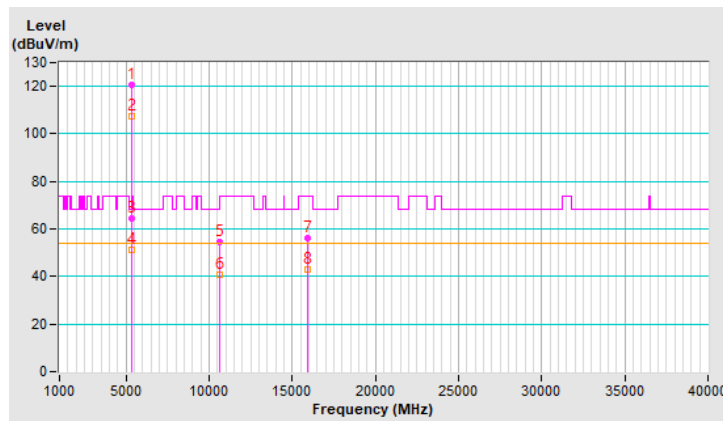
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	120.7 PK			2.15 H	100	116.2	4.5
2	*5320.00	107.4 AV			2.15 H	100	102.9	4.5
3	5353.42	64.2 PK	74.0	-9.8	2.15 H	100	59.6	4.6
4	5353.42	51.2 AV	54.0	-2.8	2.15 H	100	46.6	4.6
5	10640.00	54.5 PK	74.0	-19.5	3.71 H	232	40.2	14.3
6	10640.00	40.7 AV	54.0	-13.3	3.71 H	232	26.4	14.3
7	15960.00	56.4 PK	74.0	-17.6	1.70 H	176	42.5	13.9
8	15960.00	42.9 AV	54.0	-11.1	1.70 H	176	29.0	13.9

**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.

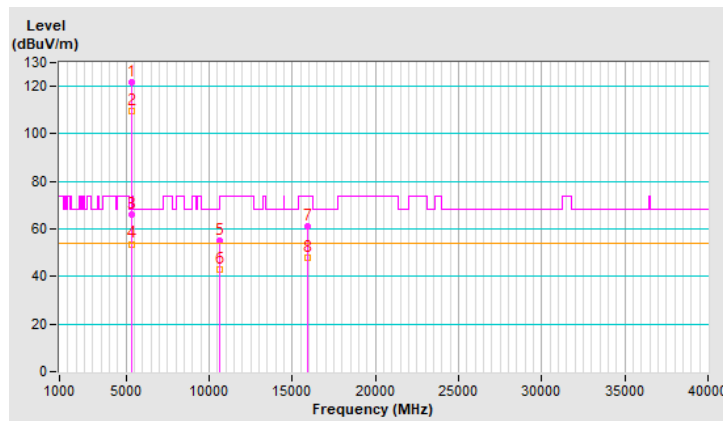


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	121.8 PK			1.74 V	96	117.3	4.5
2	*5320.00	109.8 AV			1.74 V	96	105.3	4.5
3	5353.41	66.1 PK	74.0	-7.9	1.74 V	96	61.5	4.6
4	5353.41	53.7 AV	54.0	-0.3	1.74 V	96	49.1	4.6
5	10640.00	54.9 PK	74.0	-19.1	1.78 V	350	40.6	14.3
6	10640.00	42.8 AV	54.0	-11.2	1.78 V	350	28.5	14.3
7	15960.00	61.3 PK	74.0	-12.7	2.61 V	291	47.4	13.9
8	15960.00	47.8 AV	54.0	-6.2	2.61 V	291	33.9	13.9

**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.

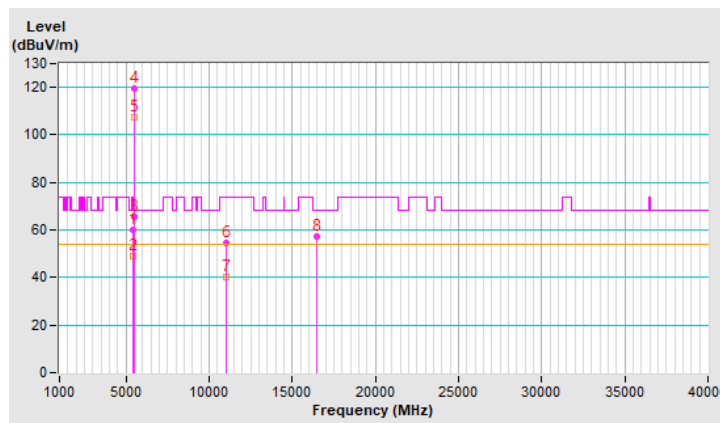


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5458.21	59.8 PK	74.0	-14.2	2.07 H	94	55.0	4.8
2	5458.21	48.8 AV	54.0	-5.2	2.07 H	94	44.0	4.8
3	#5468.71	65.6 PK	68.2	-2.6	2.07 H	94	60.8	4.8
4	*5500.00	119.4 PK			2.07 H	94	114.6	4.8
5	*5500.00	107.6 AV			2.07 H	94	102.8	4.8
6	11000.00	54.4 PK	74.0	-19.6	3.67 H	231	39.6	14.8
7	11000.00	40.4 AV	54.0	-13.6	3.67 H	231	25.6	14.8
8	#16500.00	57.1 PK	68.2	-11.1	1.73 H	182	41.8	15.3

**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.

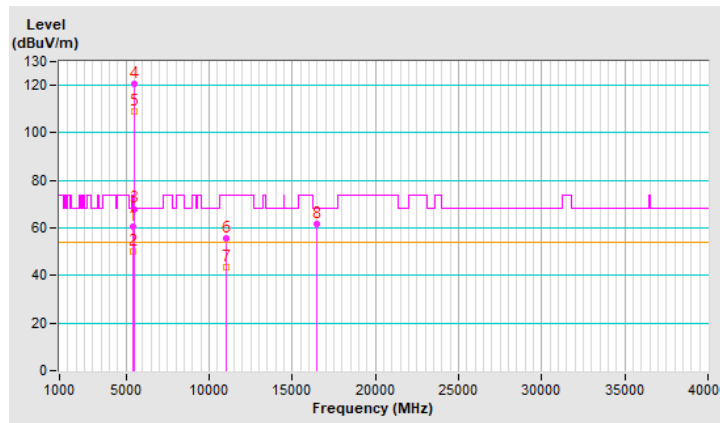


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5451.55	60.5 PK	74.0	-13.5	1.69 V	98	55.7	4.8
2	5451.55	50.0 AV	54.0	-4.0	1.69 V	98	45.2	4.8
3	#5468.61	68.0 PK	68.2	-0.2	1.69 V	98	63.2	4.8
4	*5500.00	120.8 PK			1.69 V	98	116.0	4.8
5	*5500.00	108.8 AV			1.69 V	98	104.0	4.8
6	11000.00	55.7 PK	74.0	-18.3	1.79 V	335	40.9	14.8
7	11000.00	43.3 AV	54.0	-10.7	1.79 V	335	28.5	14.8
8	#16500.00	61.6 PK	68.2	-6.6	2.57 V	309	46.3	15.3

**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.

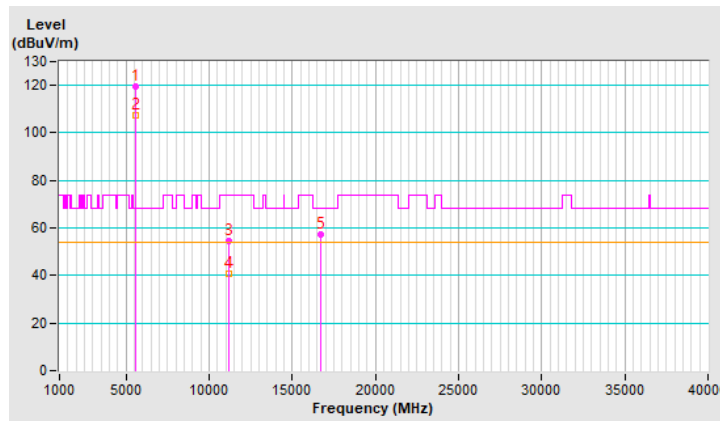


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	119.3 PK			2.38 H	284	114.5	4.8
2	*5580.00	107.6 AV			2.38 H	284	102.8	4.8
3	11160.00	54.3 PK	74.0	-19.7	3.63 H	214	39.7	14.6
4	11160.00	40.8 AV	54.0	-13.2	3.63 H	214	26.2	14.6
5	#16740.00	57.1 PK	68.2	-11.1	1.67 H	188	40.3	16.8

**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.



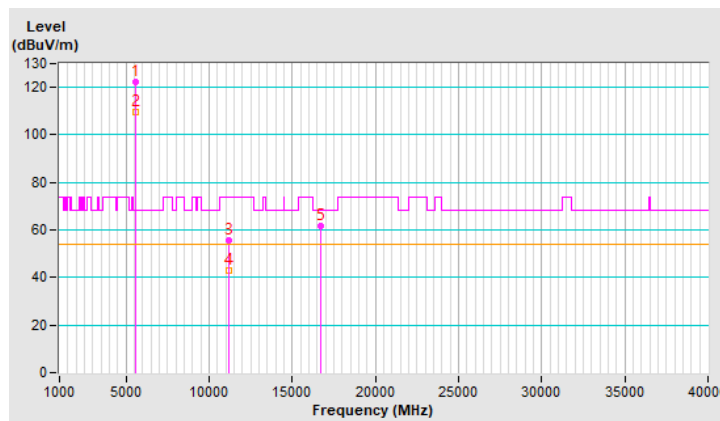


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	122.4 PK			1.76 V	305	117.6	4.8
2	*5580.00	109.7 AV			1.76 V	305	104.9	4.8
3	11160.00	55.6 PK	74.0	-18.4	1.77 V	340	41.0	14.6
4	11160.00	42.9 AV	54.0	-11.1	1.77 V	340	28.3	14.6
5	#16740.00	61.7 PK	68.2	-6.5	2.53 V	289	44.9	16.8

**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.



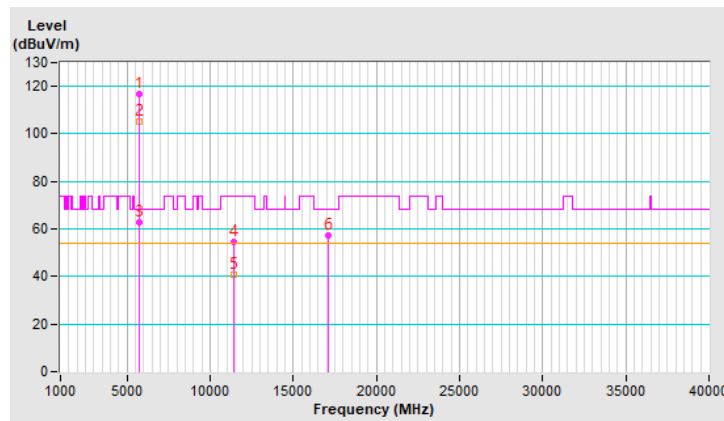
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	116.7 PK			2.41 H	278	112.0	4.7
2	*5700.00	105.3 AV			2.41 H	278	100.6	4.7
3	#5725.00	62.7 PK	68.2	-5.5	2.41 H	278	57.8	4.9
4	11400.00	54.4 PK	74.0	-19.6	3.64 H	211	39.0	15.4
5	11400.00	40.9 AV	54.0	-13.1	3.64 H	211	25.5	15.4
6	#17100.00	57.1 PK	68.2	-11.1	1.68 H	177	38.6	18.5

**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.

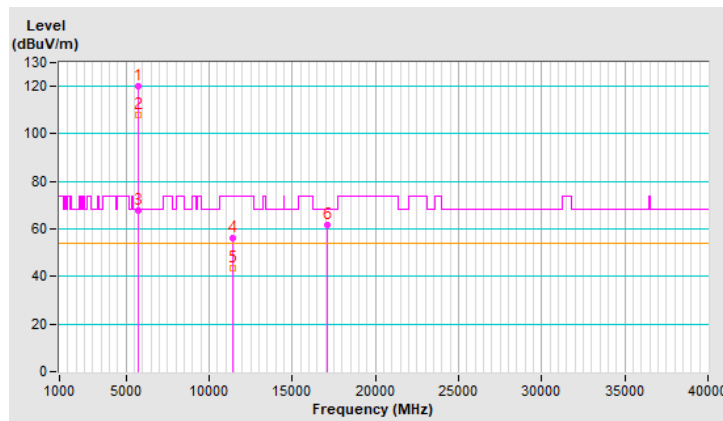


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	120.1 PK			1.50 V	90	115.4	4.7
2	*5700.00	107.9 AV			1.50 V	90	103.2	4.7
3	#5725.00	67.9 PK	68.2	-0.3	1.50 V	90	63.0	4.9
4	11400.00	56.3 PK	74.0	-17.7	1.82 V	335	40.9	15.4
5	11400.00	43.6 AV	54.0	-10.4	1.82 V	335	28.2	15.4
6	#17100.00	61.5 PK	68.2	-6.7	2.47 V	315	43.0	18.5

**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.



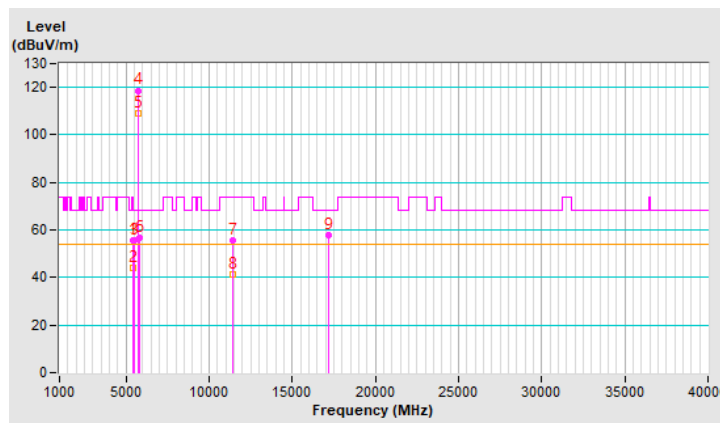
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	55.8 PK	74.0	-18.2	2.44 H	281	51.0	4.8
2	5460.00	44.3 AV	54.0	-9.7	2.44 H	281	39.5	4.8
3	#5470.00	55.7 PK	68.2	-12.5	2.44 H	281	50.9	4.8
4	*5720.00	118.7 PK			2.44 H	281	113.9	4.8
5	*5720.00	108.9 AV			2.44 H	281	104.1	4.8
6	#5850.00	56.5 PK	68.2	-11.7	2.44 H	281	51.2	5.3
7	11440.00	55.5 PK	74.0	-18.5	3.78 H	221	40.2	15.3
8	11440.00	41.1 AV	54.0	-12.9	3.78 H	221	25.8	15.3
9	#17160.00	57.7 PK	68.2	-10.5	1.76 H	172	39.4	18.3

**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.



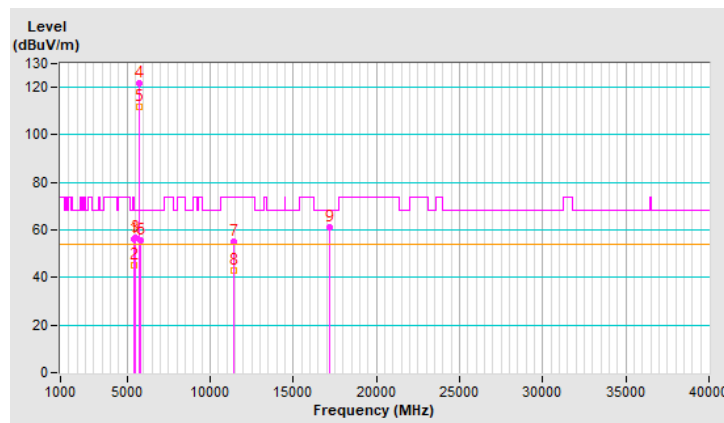
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	56.3 PK	74.0	-17.7	1.64 V	281	51.5	4.8
2	5460.00	44.9 AV	54.0	-9.1	1.64 V	281	40.1	4.8
3	#5470.00	56.6 PK	68.2	-11.6	1.64 V	281	51.8	4.8
4	*5720.00	121.9 PK			1.64 V	281	117.1	4.8
5	*5720.00	111.7 AV			1.64 V	281	106.9	4.8
6	#5850.00	55.6 PK	68.2	-12.6	1.64 V	281	50.3	5.3
7	11440.00	55.2 PK	74.0	-18.8	1.82 V	320	39.9	15.3
8	11440.00	42.9 AV	54.0	-11.1	1.82 V	320	27.6	15.3
9	#17160.00	61.2 PK	68.2	-7.0	2.62 V	308	42.9	18.3

**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.



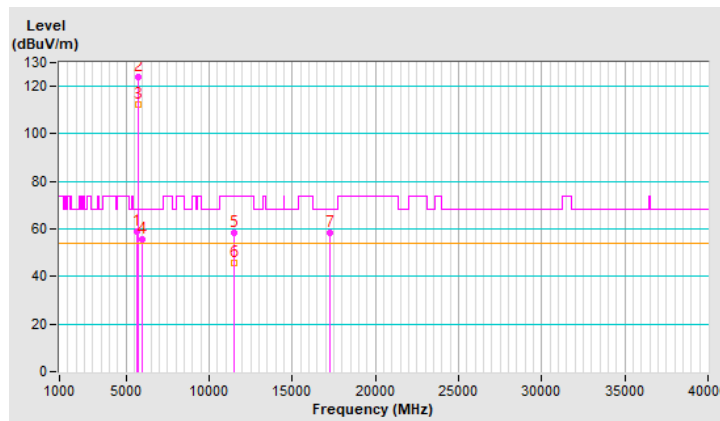
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5638.65	58.8 PK	68.2	-9.4	2.54 H	105	53.9	4.9
2	*5745.00	123.8 PK			2.54 H	105	118.7	5.1
3	*5745.00	112.1 AV			2.54 H	105	107.0	5.1
4	#5939.51	55.8 PK	68.2	-12.4	2.54 H	105	50.3	5.5
5	11490.00	58.5 PK	74.0	-15.5	3.72 H	223	43.4	15.1
6	11490.00	45.8 AV	54.0	-8.2	3.72 H	223	30.7	15.1
7	#17235.00	58.4 PK	68.2	-9.8	1.61 H	167	40.1	18.3

**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.

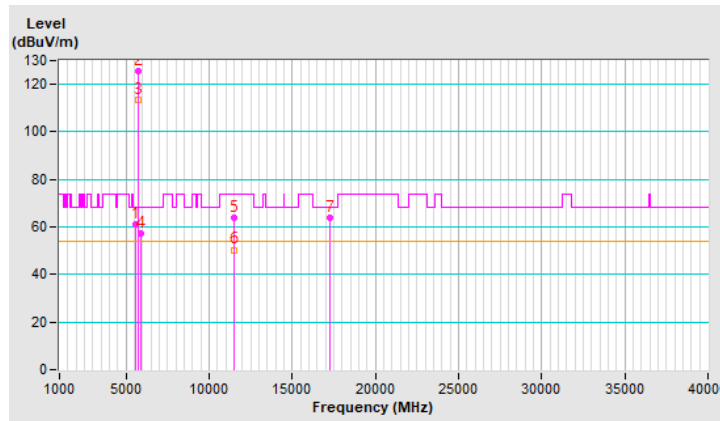


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5574.15	61.0 PK	68.2	-7.2	1.50 V	91	56.2	4.8
2	*5745.00	125.8 PK			1.50 V	91	120.7	5.1
3	*5745.00	113.4 AV			1.50 V	91	108.3	5.1
4	#5925.68	57.4 PK	68.2	-10.8	1.50 V	91	51.9	5.5
5	11490.00	63.9 PK	74.0	-10.1	1.92 V	280	48.8	15.1
6	11490.00	50.4 AV	54.0	-3.6	1.92 V	280	35.3	15.1
7	#17235.00	63.8 PK	68.2	-4.4	2.45 V	323	45.5	18.3

**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.



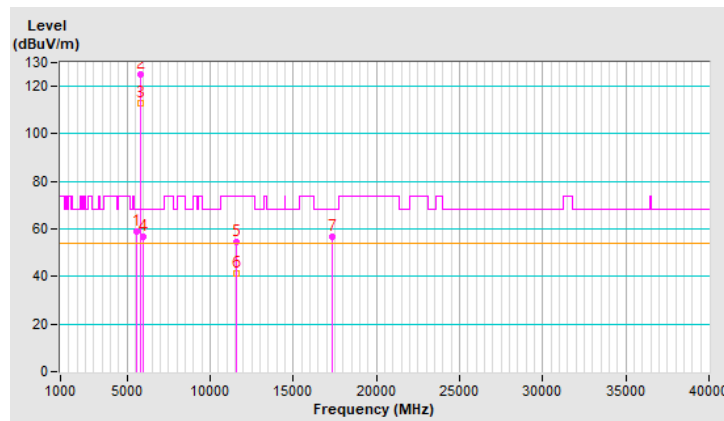
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5615.68	58.9 PK	68.2	-9.3	2.45 H	103	54.0	4.9
2	*5785.00	124.9 PK			2.45 H	103	119.7	5.2
3	*5785.00	112.8 AV			2.45 H	103	107.6	5.2
4	#5941.15	56.6 PK	68.2	-11.6	2.45 H	103	51.1	5.5
5	11570.00	54.7 PK	74.0	-19.3	3.68 H	239	39.6	15.1
6	11570.00	41.2 AV	54.0	-12.8	3.68 H	239	26.1	15.1
7	#17355.00	56.8 PK	68.2	-11.4	1.73 H	165	37.9	18.9

**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.





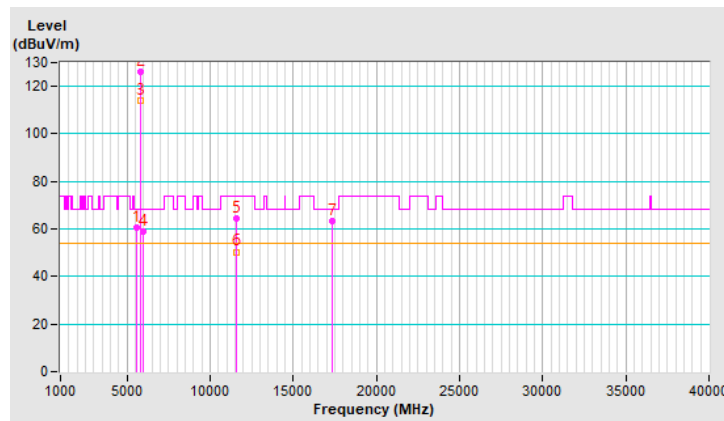
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5586.77	60.6 PK	68.2	-7.6	1.57 V	90	55.8	4.8
2	*5785.00	126.1 PK			1.57 V	90	120.9	5.2
3	*5785.00	114.2 AV			1.57 V	90	109.0	5.2
4	#5983.41	58.9 PK	68.2	-9.3	1.57 V	90	53.4	5.5
5	11570.00	64.2 PK	74.0	-9.8	1.90 V	289	49.1	15.1
6	11570.00	50.4 AV	54.0	-3.6	1.90 V	289	35.3	15.1
7	#17355.00	63.3 PK	68.2	-4.9	2.39 V	324	44.4	18.9

**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.



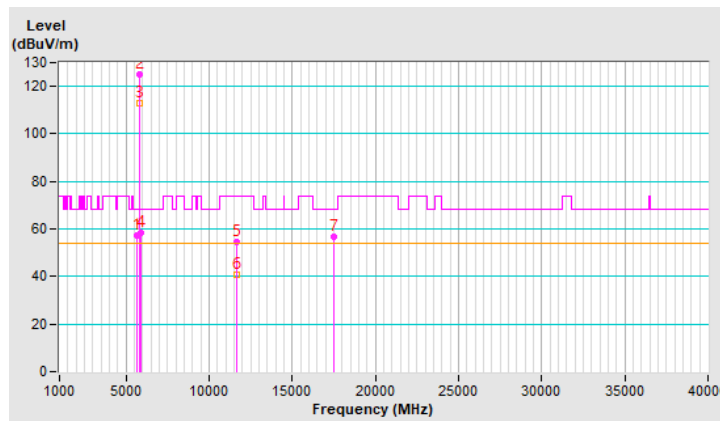
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5637.15	57.3 PK	68.2	-10.9	2.42 H	104	52.4	4.9
2	*5825.00	125.0 PK			2.42 H	104	119.7	5.3
3	*5825.00	112.7 AV			2.42 H	104	107.4	5.3
4	#5933.42	58.2 PK	68.2	-10.0	2.42 H	104	52.7	5.5
5	11650.00	54.6 PK	74.0	-19.4	3.70 H	228	39.6	15.0
6	11650.00	40.6 AV	54.0	-13.4	3.70 H	228	25.6	15.0
7	#17475.00	56.6 PK	68.2	-11.6	1.76 H	171	37.6	19.0

**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.

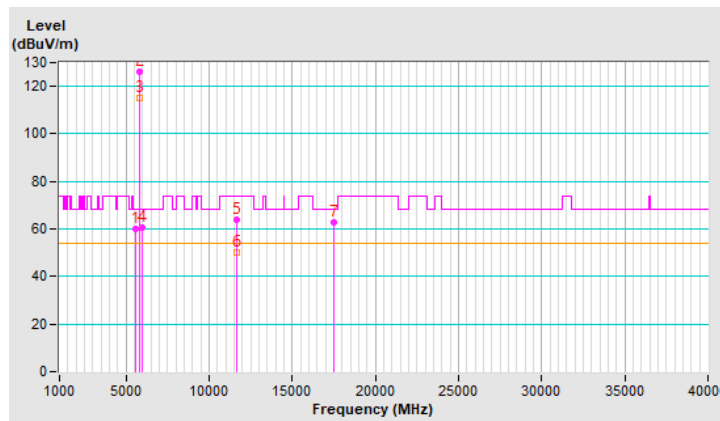


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5605.54	60.1 PK	68.2	-8.1	1.59 V	92	55.1	5.0
2	*5825.00	126.2 PK			1.59 V	92	120.9	5.3
3	*5825.00	114.9 AV			1.59 V	92	109.6	5.3
4	#5946.34	60.5 PK	68.2	-7.7	1.59 V	92	55.0	5.5
5	11650.00	63.8 PK	74.0	-10.2	1.94 V	294	48.8	15.0
6	11650.00	50.3 AV	54.0	-3.7	1.94 V	294	35.3	15.0
7	#17475.00	63.0 PK	68.2	-5.2	2.38 V	329	44.0	19.0

**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.



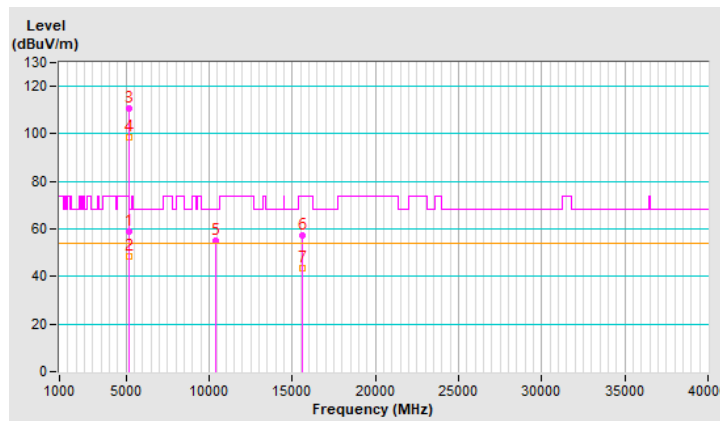
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 38 : 5190 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.15	58.9 PK	74.0	-15.1	2.21 H	96	54.1	4.8
2	5148.15	48.6 AV	54.0	-5.4	2.21 H	96	43.8	4.8
3	*5190.00	110.8 PK			2.21 H	96	106.2	4.6
4	*5190.00	98.8 AV			2.21 H	96	94.2	4.6
5	#10380.00	55.2 PK	68.2	-13.0	3.70 H	210	41.0	14.2
6	15570.00	57.2 PK	74.0	-16.8	1.71 H	162	42.7	14.5
7	15570.00	43.4 AV	54.0	-10.6	1.71 H	162	28.9	14.5

**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.



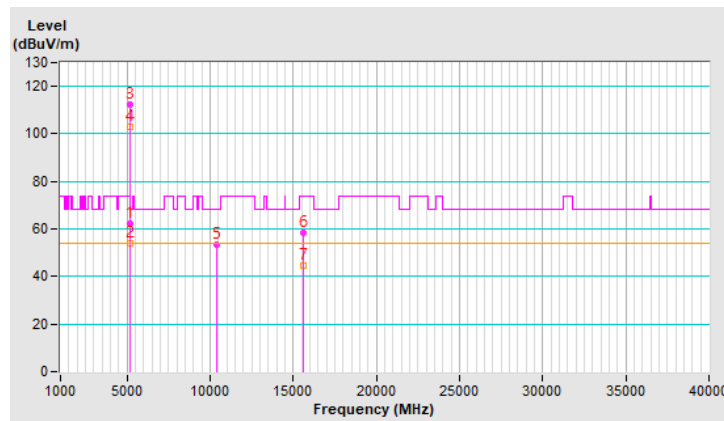
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 38 : 5190 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.14	62.4 PK	74.0	-11.6	1.64 V	90	57.6	4.8
2	5148.14	53.8 AV	54.0	-0.2	1.64 V	90	49.0	4.8
3	*5190.00	112.3 PK			1.64 V	90	107.7	4.6
4	*5190.00	102.8 AV			1.64 V	90	98.2	4.6
5	#10380.00	53.3 PK	68.2	-14.9	1.86 V	318	39.1	14.2
6	15570.00	58.3 PK	74.0	-15.7	2.47 V	316	43.8	14.5
7	15570.00	44.7 AV	54.0	-9.3	2.47 V	316	30.2	14.5

**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.



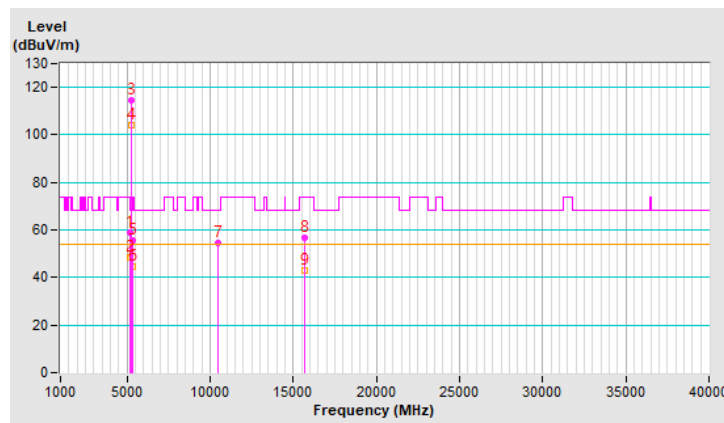
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 46 : 5230 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.46	59.0 PK	74.0	-15.0	2.19 H	94	54.2	4.8
2	5148.46	48.4 AV	54.0	-5.6	2.19 H	94	43.6	4.8
3	*5230.00	114.7 PK			2.19 H	94	110.2	4.5
4	*5230.00	104.2 AV			2.19 H	94	99.7	4.5
5	5350.00	55.6 PK	74.0	-18.4	2.19 H	94	51.0	4.6
6	5350.00	44.8 AV	54.0	-9.2	2.19 H	94	40.2	4.6
7	#10460.00	54.7 PK	68.2	-13.5	3.72 H	218	40.3	14.4
8	15690.00	56.7 PK	74.0	-17.3	1.71 H	187	43.0	13.7
9	15690.00	43.1 AV	54.0	-10.9	1.71 H	187	29.4	13.7

**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.

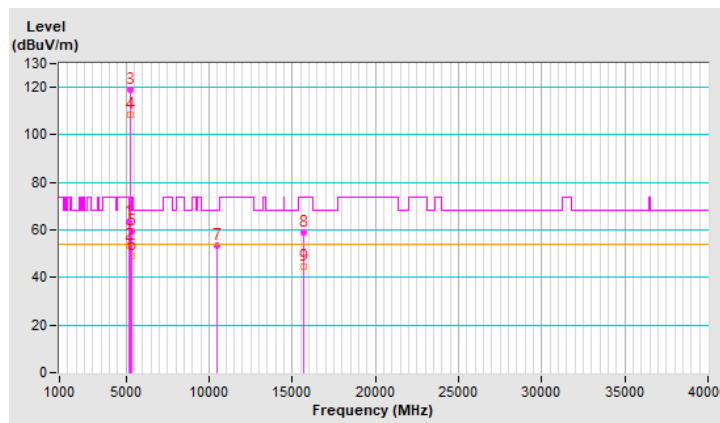


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 46 : 5230 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5148.46	63.5 PK	74.0	-10.5	1.64 V	92	58.7	4.8
2	5148.46	53.3 AV	54.0	-0.7	1.64 V	92	48.5	4.8
3	*5230.00	118.8 PK			1.64 V	92	114.3	4.5
4	*5230.00	108.3 AV			1.64 V	92	103.8	4.5
5	5350.00	59.5 PK	74.0	-14.5	1.64 V	92	54.9	4.6
6	5350.00	48.9 AV	54.0	-5.1	1.64 V	92	44.3	4.6
7	#10460.00	53.3 PK	68.2	-14.9	1.92 V	301	38.9	14.4
8	15690.00	58.9 PK	74.0	-15.1	2.52 V	308	45.2	13.7
9	15690.00	44.8 AV	54.0	-9.2	2.52 V	308	31.1	13.7

**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.



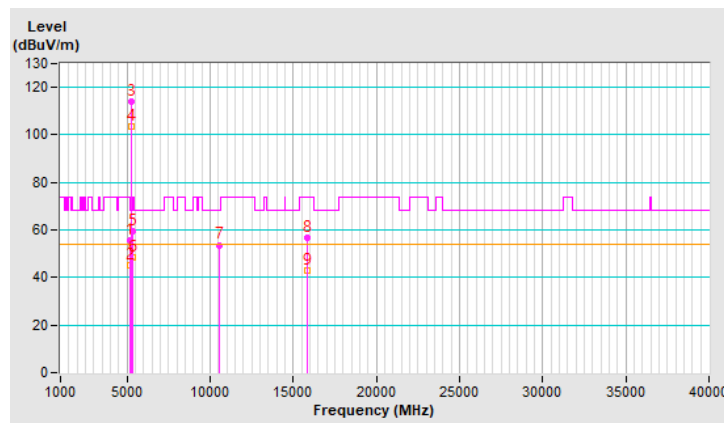
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 54 : 5270 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	55.7 PK	74.0	-18.3	2.27 H	91	50.9	4.8
2	5150.00	45.1 AV	54.0	-8.9	2.27 H	91	40.3	4.8
3	*5270.00	114.1 PK			2.27 H	91	109.8	4.3
4	*5270.00	103.7 AV			2.27 H	91	99.4	4.3
5	5350.00	59.5 PK	74.0	-14.5	2.27 H	91	54.9	4.6
6	5350.00	48.7 AV	54.0	-5.3	2.27 H	91	44.1	4.6
7	#10540.00	53.7 PK	68.2	-14.5	3.62 H	224	39.3	14.4
8	15810.00	56.8 PK	74.0	-17.2	1.69 H	189	43.2	13.6
9	15810.00	43.0 AV	54.0	-11.0	1.69 H	189	29.4	13.6

**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.



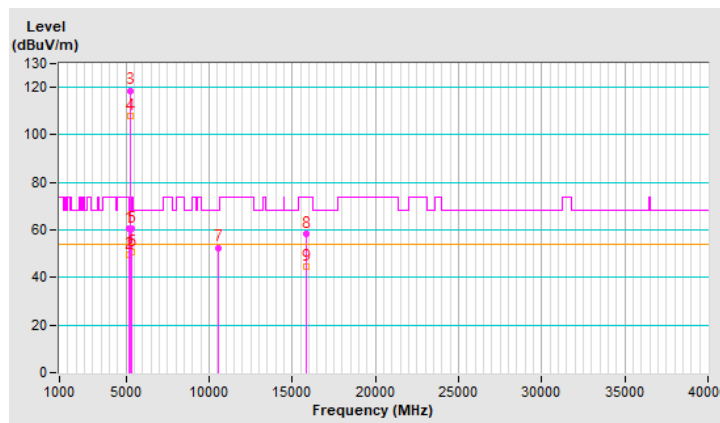


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 54 : 5270 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	60.4 PK	74.0	-13.6	1.64 V	92	55.6	4.8
2	5150.00	49.5 AV	54.0	-4.5	1.64 V	92	44.7	4.8
3	*5270.00	118.7 PK			1.64 V	92	114.4	4.3
4	*5270.00	107.9 AV			1.64 V	92	103.6	4.3
5	5350.00	60.4 PK	74.0	-13.6	1.64 V	92	55.8	4.6
6	5350.00	50.9 AV	54.0	-3.1	1.64 V	92	46.3	4.6
7	#10540.00	52.6 PK	68.2	-15.6	1.92 V	311	38.2	14.4
8	15810.00	58.3 PK	74.0	-15.7	2.50 V	317	44.7	13.6
9	15810.00	44.6 AV	54.0	-9.4	2.50 V	317	31.0	13.6

**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.



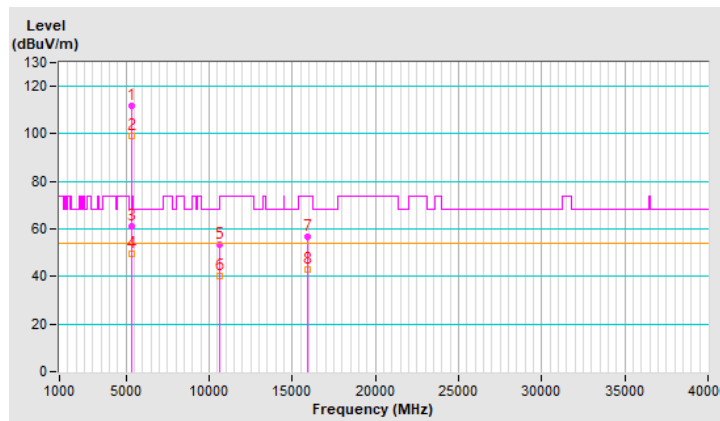
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 62 : 5310 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	111.6 PK			2.05 H	93	107.2	4.4
2	*5310.00	99.0 AV			2.05 H	93	94.6	4.4
3	5353.25	60.9 PK	74.0	-13.1	2.05 H	93	56.3	4.6
4	5353.25	49.7 AV	54.0	-4.3	2.05 H	93	45.1	4.6
5	10620.00	53.6 PK	74.0	-20.4	3.56 H	213	39.3	14.3
6	10620.00	40.4 AV	54.0	-13.6	3.56 H	213	26.1	14.3
7	15930.00	56.5 PK	74.0	-17.5	1.69 H	195	42.5	14.0
8	15930.00	42.8 AV	54.0	-11.2	1.69 H	195	28.8	14.0

**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.

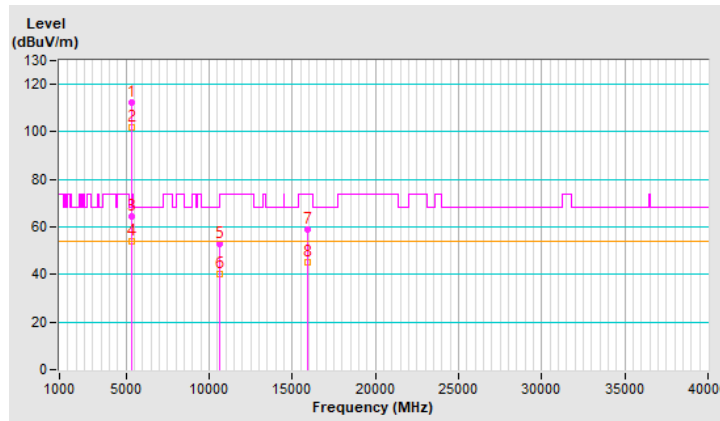


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 62 : 5310 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	112.4 PK			1.61 V	46	108.0	4.4
2	*5310.00	101.8 AV			1.61 V	46	97.4	4.4
3	5350.00	64.4 PK	74.0	-9.6	1.61 V	46	59.8	4.6
4	<b>5350.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.61 V</b>	<b>46</b>	<b>49.3</b>	<b>4.6</b>
5	10620.00	52.9 PK	74.0	-21.1	1.86 V	320	38.6	14.3
6	10620.00	40.3 AV	54.0	-13.7	1.86 V	320	26.0	14.3
7	15930.00	59.1 PK	74.0	-14.9	2.51 V	302	45.1	14.0
8	15930.00	45.4 AV	54.0	-8.6	2.51 V	302	31.4	14.0

**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.



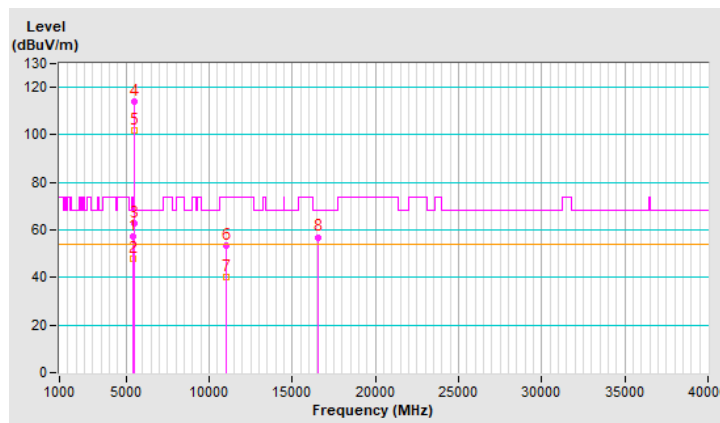
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 102 : 5510 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5458.62	57.5 PK	74.0	-16.5	2.08 H	98	52.7	4.8
2	5458.62	47.7 AV	54.0	-6.3	2.08 H	98	42.9	4.8
3	#5468.71	62.7 PK	68.2	-5.5	2.08 H	98	57.9	4.8
4	*5510.00	114.2 PK			2.08 H	98	109.3	4.9
5	*5510.00	101.7 AV			2.08 H	98	96.8	4.9
6	11020.00	53.3 PK	74.0	-20.7	3.67 H	222	38.6	14.7
7	11020.00	40.0 AV	54.0	-14.0	3.67 H	222	25.3	14.7
8	#16530.00	57.0 PK	68.2	-11.2	1.71 H	196	41.7	15.3

**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.

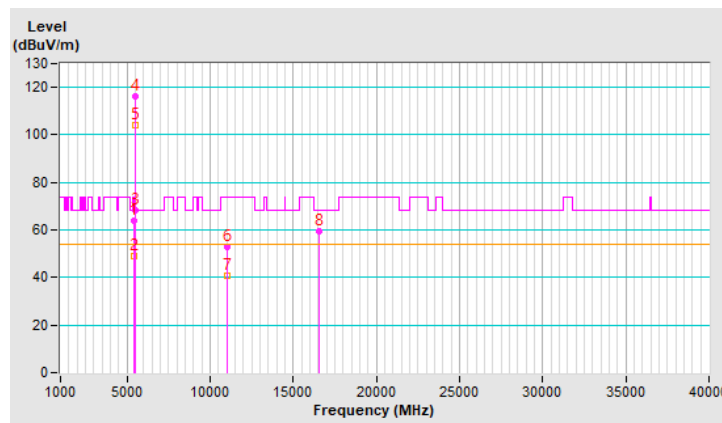


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 102 : 5510 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	64.1 PK	74.0	-9.9	1.67 V	85	59.3	4.8
2	5460.00	49.2 AV	54.0	-4.8	1.67 V	85	44.4	4.8
<b>3</b>	<b>#5465.56</b>	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.67 V</b>	<b>85</b>	<b>63.3</b>	<b>4.8</b>
4	*5510.00	116.3 PK			1.67 V	85	111.4	4.9
5	*5510.00	104.1 AV			1.67 V	85	99.2	4.9
6	11020.00	52.7 PK	74.0	-21.3	1.87 V	305	38.0	14.7
7	11020.00	40.7 AV	54.0	-13.3	1.87 V	305	26.0	14.7
8	#16530.00	59.3 PK	68.2	-8.9	2.47 V	313	44.0	15.3

**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.



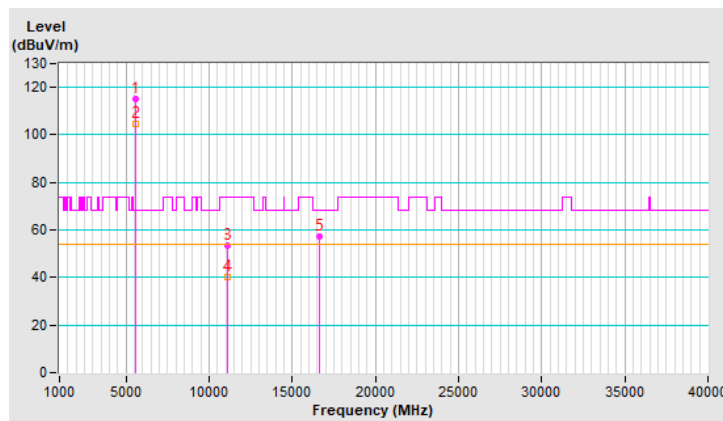
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 110 : 5550 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	115.0 PK			2.07 H	92	110.2	4.8
2	*5550.00	104.5 AV			2.07 H	92	99.7	4.8
3	11100.00	53.5 PK	74.0	-20.5	3.61 H	219	39.0	14.5
4	11100.00	40.1 AV	54.0	-13.9	3.61 H	219	25.6	14.5
5	#16650.00	57.4 PK	68.2	-10.8	1.75 H	195	41.1	16.3

**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.



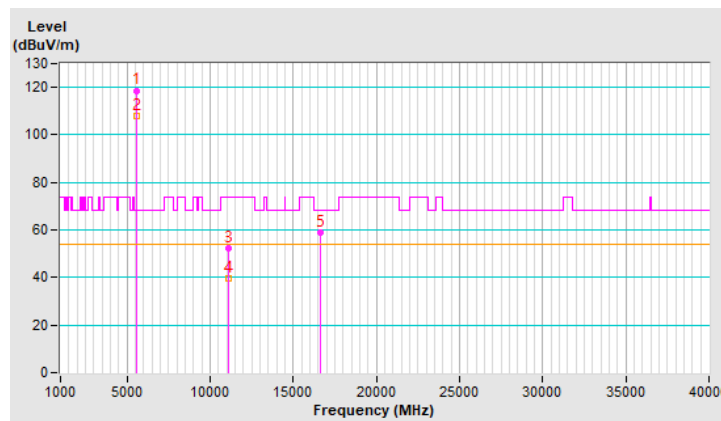
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 110 : 5550 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	118.7 PK			1.58 V	98	113.9	4.8
2	*5550.00	107.8 AV			1.58 V	98	103.0	4.8
3	11100.00	52.5 PK	74.0	-21.5	1.83 V	311	38.0	14.5
4	11100.00	39.8 AV	54.0	-14.2	1.83 V	311	25.3	14.5
5	#16650.00	59.0 PK	68.2	-9.2	2.49 V	310	42.7	16.3

**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.



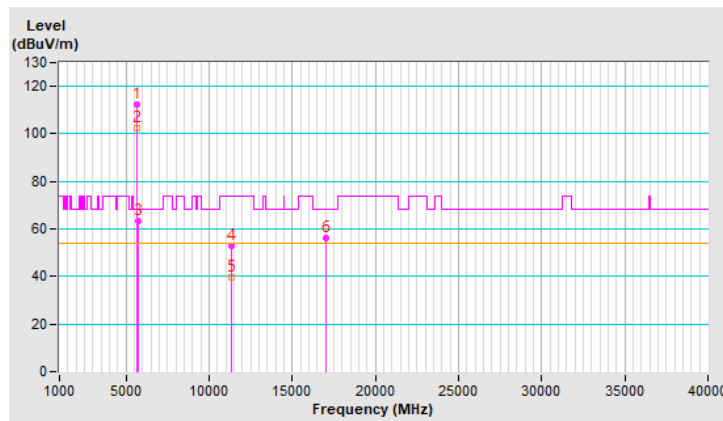
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 134 : 5670 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	112.4 PK			2.52 H	106	107.5	4.9
2	*5670.00	102.4 AV			2.52 H	106	97.5	4.9
3	#5725.00	63.1 PK	68.2	-5.1	2.52 H	106	58.2	4.9
4	11340.00	53.0 PK	74.0	-21.0	3.60 H	235	37.7	15.3
5	11340.00	39.7 AV	54.0	-14.3	3.60 H	235	24.4	15.3
6	#17010.00	56.4 PK	68.2	-11.8	1.63 H	178	38.1	18.3

**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.



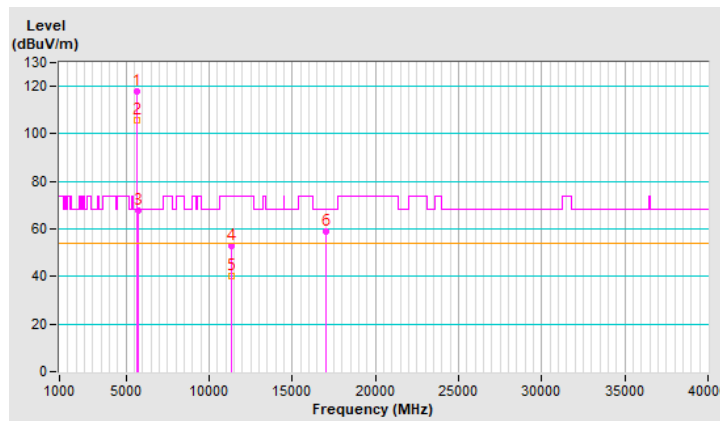


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 134 : 5670 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	117.7 PK			1.60 V	93	112.8	4.9
2	*5670.00	105.9 AV			1.60 V	93	101.0	4.9
3	#5725.00	67.9 PK	68.2	-0.3	1.60 V	93	63.0	4.9
4	11340.00	52.8 PK	74.0	-21.2	1.88 V	321	37.5	15.3
5	11340.00	40.2 AV	54.0	-13.8	1.88 V	321	24.9	15.3
6	#17010.00	58.7 PK	68.2	-9.5	2.56 V	311	40.4	18.3

**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.

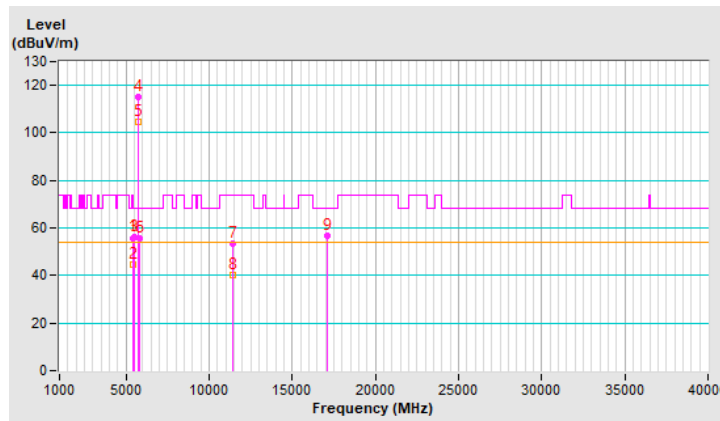


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 142 : 5710 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	55.9 PK	74.0	-18.1	2.50 H	117	51.1	4.8
2	5460.00	44.6 AV	54.0	-9.4	2.50 H	117	39.8	4.8
3	#5470.00	56.3 PK	68.2	-11.9	2.50 H	117	51.5	4.8
4	*5710.00	115.0 PK			2.50 H	117	110.2	4.8
5	*5710.00	104.7 AV			2.50 H	117	99.9	4.8
6	#5850.00	55.8 PK	68.2	-12.4	2.50 H	117	50.5	5.3
7	11420.00	53.3 PK	74.0	-20.7	3.63 H	223	38.0	15.3
8	11420.00	40.0 AV	54.0	-14.0	3.63 H	223	24.7	15.3
9	#17130.00	56.9 PK	68.2	-11.3	1.73 H	198	38.6	18.3

**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.

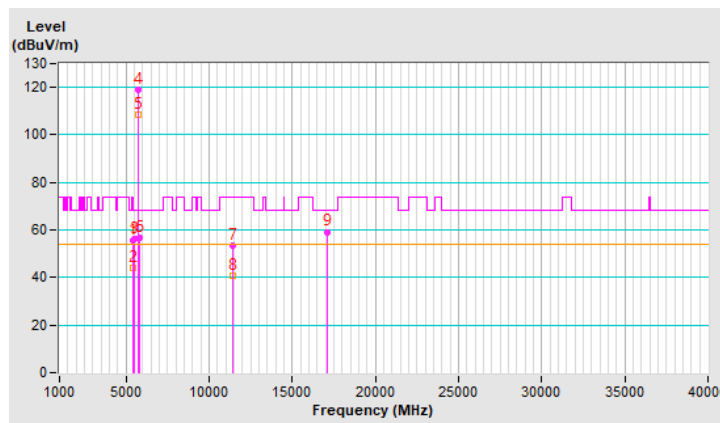


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 142 : 5710 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	55.6 PK	74.0	-18.4	1.61 V	92	50.8	4.8
2	5460.00	43.9 AV	54.0	-10.1	1.61 V	92	39.1	4.8
3	#5470.00	56.0 PK	68.2	-12.2	1.61 V	92	51.2	4.8
4	*5710.00	119.1 PK			1.61 V	92	114.3	4.8
5	*5710.00	108.3 AV			1.61 V	92	103.5	4.8
6	#5850.00	56.6 PK	68.2	-11.6	1.61 V	92	51.3	5.3
7	11420.00	53.5 PK	74.0	-20.5	1.82 V	313	38.2	15.3
8	11420.00	40.7 AV	54.0	-13.3	1.82 V	313	25.4	15.3
9	#17130.00	59.2 PK	68.2	-9.0	2.56 V	317	40.9	18.3

**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.



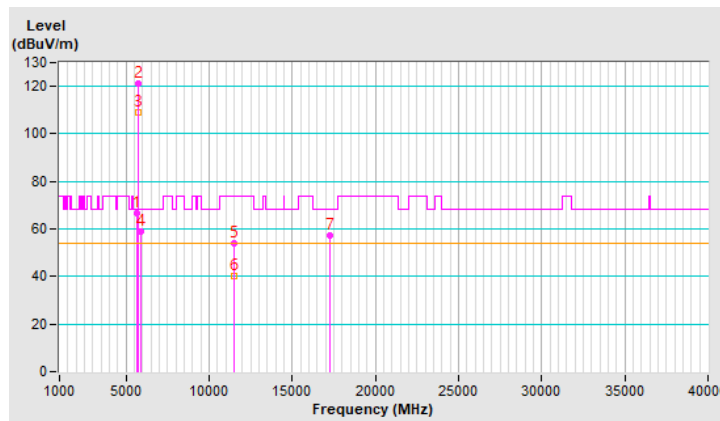
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 151 : 5755 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5648.94	66.5 PK	68.2	-1.7	2.49 H	102	61.6	4.9
2	*5755.00	121.2 PK			2.49 H	102	116.1	5.1
3	*5755.00	108.9 AV			2.49 H	102	103.8	5.1
4	#5926.65	59.0 PK	68.2	-9.2	2.49 H	102	53.5	5.5
5	11510.00	53.9 PK	74.0	-20.1	3.57 H	227	38.8	15.1
6	11510.00	40.2 AV	54.0	-13.8	3.57 H	227	25.1	15.1
7	#17265.00	57.2 PK	68.2	-11.0	1.65 H	176	38.8	18.4

**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.



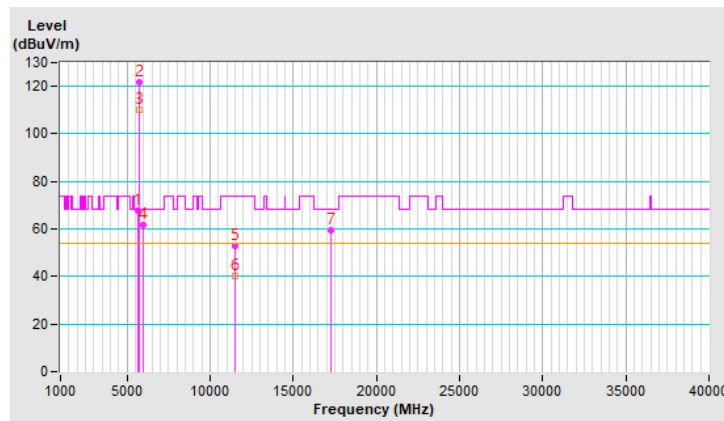
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 151 : 5755 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5638.72	67.8 PK	68.2	-0.4	1.60 V	88	62.9	4.9
2	*5755.00	121.9 PK			1.60 V	88	116.8	5.1
3	*5755.00	110.2 AV			1.60 V	88	105.1	5.1
4	#5935.97	61.8 PK	68.2	-6.4	1.60 V	88	56.3	5.5
5	11510.00	52.8 PK	74.0	-21.2	1.83 V	317	37.7	15.1
6	11510.00	40.4 AV	54.0	-13.6	1.83 V	317	25.3	15.1
7	#17265.00	59.3 PK	68.2	-8.9	2.52 V	308	40.9	18.4

**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.



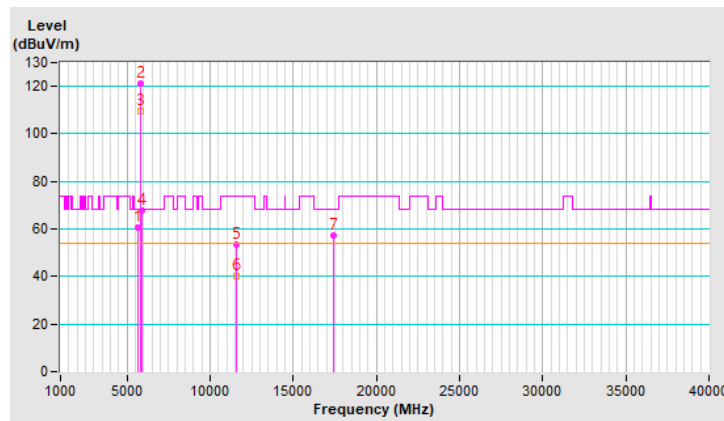
<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 159 : 5795 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5639.38	60.7 PK	68.2	-7.5	2.49 H	106	55.8	4.9
2	*5795.00	121.3 PK			2.49 H	106	116.1	5.2
3	*5795.00	109.8 AV			2.49 H	106	104.6	5.2
4	#5933.30	67.8 PK	68.2	-0.4	2.49 H	106	62.3	5.5
5	11590.00	53.5 PK	74.0	-20.5	3.65 H	213	38.4	15.1
6	11590.00	40.0 AV	54.0	-14.0	3.65 H	213	24.9	15.1
7	#17385.00	57.3 PK	68.2	-10.9	1.74 H	190	38.1	19.2

**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.

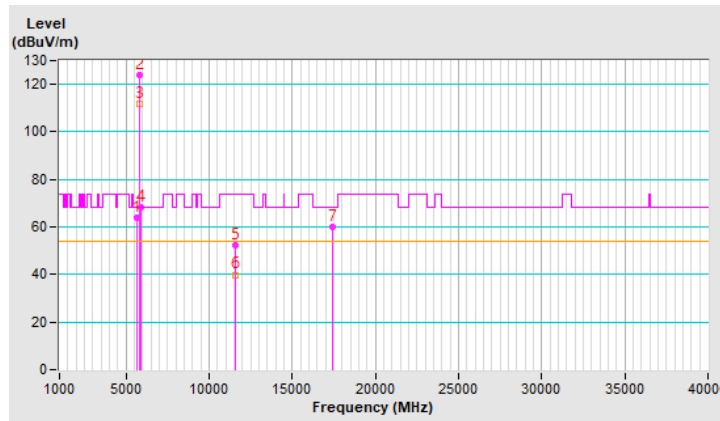


<b>RF Mode</b>	TX 802.11ax (HE40)	<b>Channel</b>	CH 159 : 5795 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5644.36	63.9 PK	68.2	-4.3	1.70 V	93	59.0	4.9
2	*5795.00	123.9 PK			1.70 V	93	118.7	5.2
3	*5795.00	111.6 AV			1.70 V	93	106.4	5.2
4	#5931.13	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.70 V</b>	<b>93</b>	<b>62.6</b>	<b>5.5</b>
5	11590.00	52.3 PK	74.0	-21.7	1.82 V	323	37.2	15.1
6	11590.00	39.9 AV	54.0	-14.1	1.82 V	323	24.8	15.1
7	#17385.00	59.8 PK	68.2	-8.4	2.50 V	286	40.6	19.2

**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.



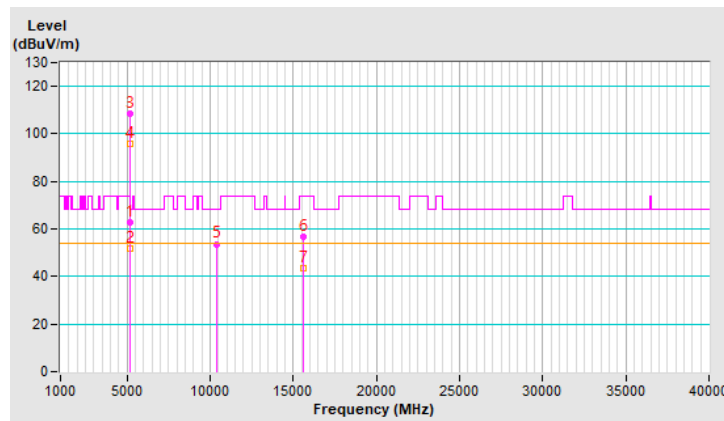
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 42 : 5210 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5148.36	63.0 PK	74.0	-11.0	2.19 H	99	58.2	4.8
2	5148.36	51.6 AV	54.0	-2.4	2.19 H	99	46.8	4.8
3	*5210.00	108.3 PK			2.19 H	99	103.8	4.5
4	*5210.00	96.0 AV			2.19 H	99	91.5	4.5
5	#10420.00	53.7 PK	68.2	-14.5	3.59 H	217	39.4	14.3
6	15630.00	56.9 PK	74.0	-17.1	1.64 H	200	42.6	14.3
7	15630.00	43.3 AV	54.0	-10.7	1.64 H	200	29.0	14.3

**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.



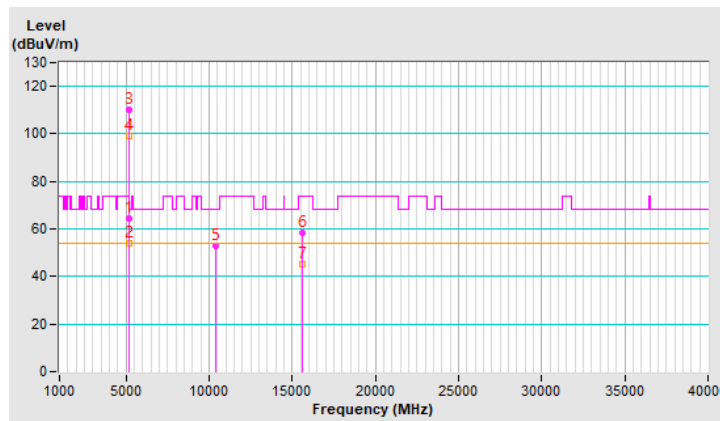


<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 42 : 5210 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5148.27	64.2 PK	74.0	-9.8	1.72 V	93	59.4	4.8
2	<b>5148.27</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.72 V</b>	<b>93</b>	<b>49.1</b>	<b>4.8</b>
3	*5210.00	110.1 PK			1.72 V	93	105.6	4.5
4	*5210.00	98.9 AV			1.72 V	93	94.4	4.5
5	#10420.00	52.9 PK	68.2	-15.3	1.90 V	321	38.6	14.3
6	15630.00	58.6 PK	74.0	-15.4	2.55 V	298	44.3	14.3
7	15630.00	45.1 AV	54.0	-8.9	2.55 V	298	30.8	14.3

**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.



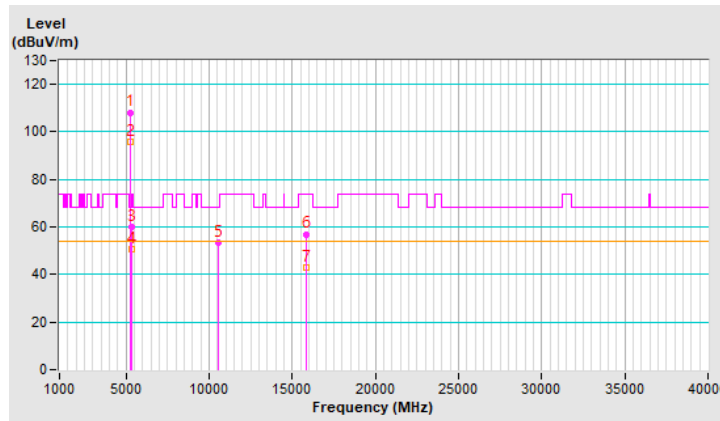
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	108.2 PK			2.61 H	103	103.9	4.3
2	*5290.00	96.0 AV			2.61 H	103	91.7	4.3
3	5354.18	60.2 PK	74.0	-13.8	2.61 H	103	55.6	4.6
4	5354.18	50.9 AV	54.0	-3.1	2.61 H	103	46.3	4.6
5	#10580.00	53.2 PK	68.2	-15.0	3.60 H	226	38.9	14.3
6	15870.00	57.0 PK	74.0	-17.0	1.65 H	190	43.2	13.8
7	15870.00	43.0 AV	54.0	-11.0	1.65 H	190	29.2	13.8

**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.



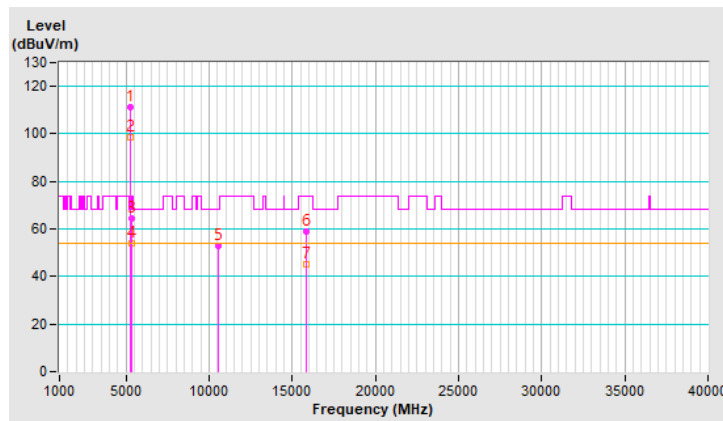
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	111.4 PK			1.71 V	94	107.1	4.3
2	*5290.00	98.8 AV			1.71 V	94	94.5	4.3
3	5353.27	64.4 PK	74.0	-9.6	1.71 V	94	59.8	4.6
4	5353.27	53.8 AV	54.0	-0.2	1.71 V	94	49.2	4.6
5	#10580.00	53.1 PK	68.2	-15.1	1.81 V	324	38.8	14.3
6	15870.00	58.8 PK	74.0	-15.2	2.55 V	290	45.0	13.8
7	15870.00	45.0 AV	54.0	-9.0	2.55 V	290	31.2	13.8

**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.



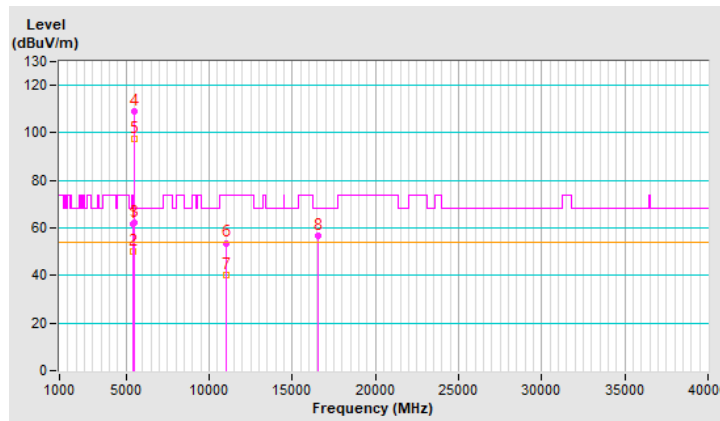
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 106 : 5530 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	5459.09	61.8 PK	74.0	-12.2	2.53 H	105	57.0	4.8
2	5459.09	50.3 AV	54.0	-3.7	2.53 H	105	45.5	4.8
3	#5463.64	62.2 PK	68.2	-6.0	2.53 H	105	57.4	4.8
4	*5530.00	109.2 PK			2.53 H	105	104.4	4.8
5	*5530.00	97.4 AV			2.53 H	105	92.6	4.8
6	11060.00	53.7 PK	74.0	-20.3	3.66 H	232	39.1	14.6
7	11060.00	40.0 AV	54.0	-14.0	3.66 H	232	25.4	14.6
8	#16590.00	56.5 PK	68.2	-11.7	1.71 H	176	40.6	15.9

**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.

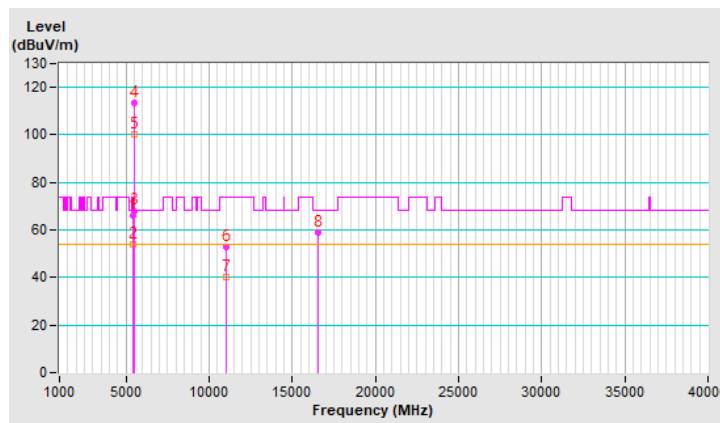


<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 106 : 5530 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	66.2 PK	74.0	-7.8	1.69 V	87	61.4	4.8
2	<b>5460.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.69 V</b>	<b>87</b>	<b>49.1</b>	<b>4.8</b>
3	#5467.96	68.0 PK	68.2	-0.2	1.69 V	87	63.2	4.8
4	*5530.00	113.3 PK			1.69 V	87	108.5	4.8
5	*5530.00	100.4 AV			1.69 V	87	95.6	4.8
6	11060.00	52.8 PK	74.0	-21.2	1.80 V	332	38.2	14.6
7	11060.00	40.4 AV	54.0	-13.6	1.80 V	332	25.8	14.6
8	#16590.00	58.9 PK	68.2	-9.3	2.45 V	293	43.0	15.9

**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.



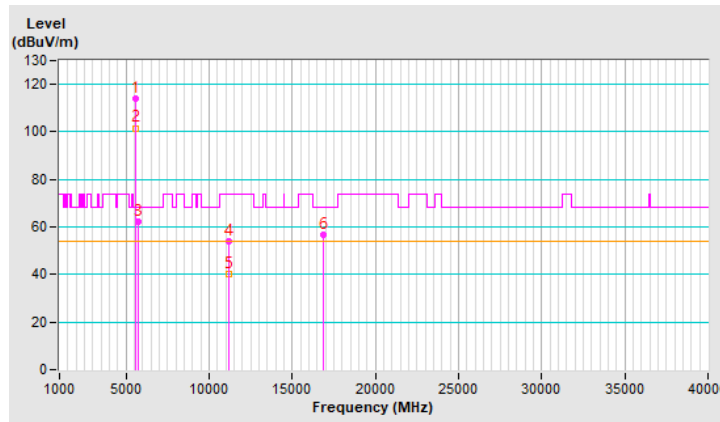
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 122 : 5610 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	113.9 PK			2.50 H	93	109.0	4.9
2	*5610.00	101.6 AV			2.50 H	93	96.7	4.9
3	#5725.00	62.3 PK	68.2	-5.9	2.50 H	93	57.4	4.9
4	11220.00	54.0 PK	74.0	-20.0	3.68 H	220	39.3	14.7
5	11220.00	40.2 AV	54.0	-13.8	3.68 H	220	25.5	14.7
6	#16830.00	56.9 PK	68.2	-11.3	1.75 H	177	39.7	17.2

**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.

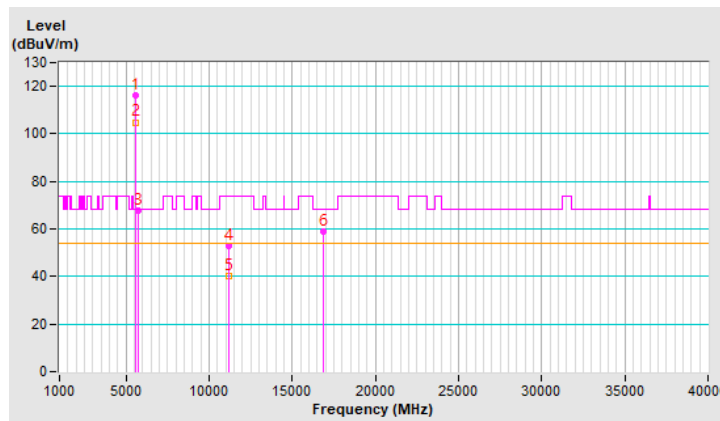


<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 122 : 5610 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	116.3 PK			1.66 V	84	111.4	4.9
2	*5610.00	104.9 AV			1.66 V	84	100.0	4.9
3	#5725.00	67.9 PK	68.2	-0.3	1.66 V	84	63.0	4.9
4	11220.00	52.7 PK	74.0	-21.3	1.87 V	310	38.0	14.7
5	11220.00	40.0 AV	54.0	-14.0	1.87 V	310	25.3	14.7
6	#16830.00	58.8 PK	68.2	-9.4	2.56 V	300	41.6	17.2

**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.



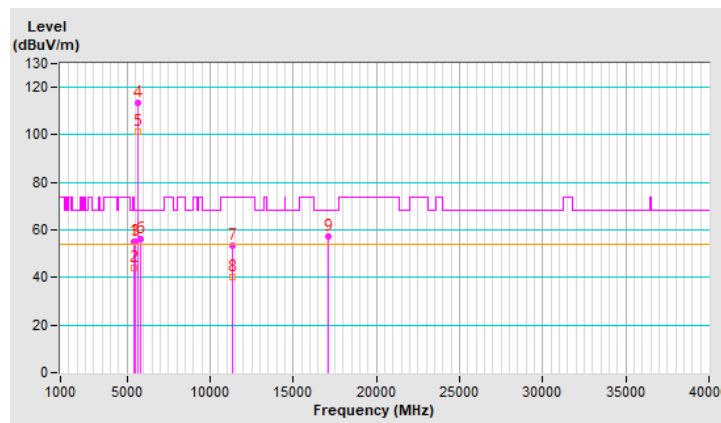
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 138 : 5690 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	55.3 PK	74.0	-18.7	2.58 H	109	50.5	4.8
2	5460.00	44.1 AV	54.0	-9.9	2.58 H	109	39.3	4.8
3	#5470.00	55.2 PK	68.2	-13.0	2.58 H	109	50.4	4.8
4	*5690.00	113.6 PK			2.58 H	109	108.9	4.7
5	*5690.00	101.2 AV			2.58 H	109	96.5	4.7
6	#5850.00	56.0 PK	68.2	-12.2	2.58 H	109	50.7	5.3
7	11380.00	53.5 PK	74.0	-20.5	3.57 H	209	38.1	15.4
8	11380.00	40.2 AV	54.0	-13.8	3.57 H	209	24.8	15.4
9	#17070.00	57.2 PK	68.2	-11.0	1.68 H	191	38.8	18.4

**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.





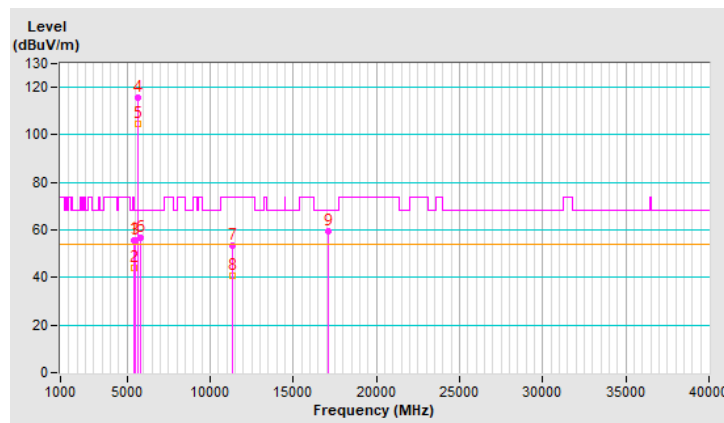
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 138 : 5690 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	55.9 PK	74.0	-18.1	1.67 V	87	51.1	4.8
2	5460.00	44.2 AV	54.0	-9.8	1.67 V	87	39.4	4.8
3	#5470.00	55.8 PK	68.2	-12.4	1.67 V	87	51.0	4.8
4	*5690.00	115.8 PK			1.67 V	87	111.1	4.7
5	*5690.00	104.6 AV			1.67 V	87	99.9	4.7
6	#5850.00	56.6 PK	68.2	-11.6	1.67 V	87	51.3	5.3
7	11380.00	53.3 PK	74.0	-20.7	1.92 V	310	37.9	15.4
8	11380.00	40.5 AV	54.0	-13.5	1.92 V	310	25.1	15.4
9	#17070.00	59.7 PK	68.2	-8.5	2.51 V	300	41.3	18.4

**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.



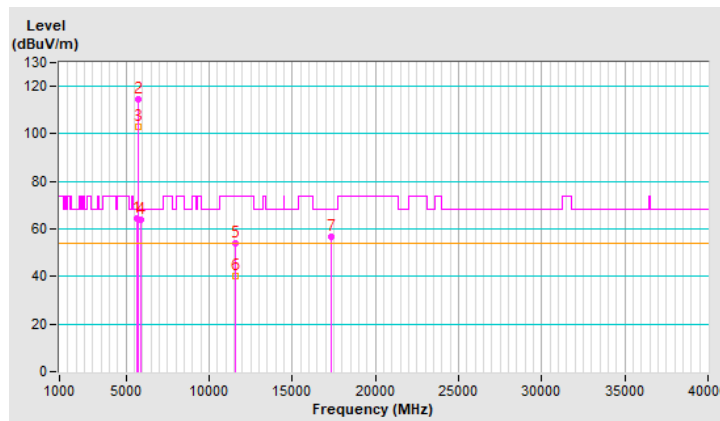
<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 155 : 5775 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

**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	#5643.49	64.4 PK	68.2	-3.8	2.50 H	105	59.5	4.9
2	*5775.00	114.7 PK			2.50 H	105	109.5	5.2
3	*5775.00	102.8 AV			2.50 H	105	97.6	5.2
4	#5929.52	64.0 PK	68.2	-4.2	2.50 H	105	58.5	5.5
5	11550.00	53.9 PK	74.0	-20.1	3.62 H	233	38.9	15.0
6	11550.00	40.3 AV	54.0	-13.7	3.62 H	233	25.3	15.0
7	#17325.00	56.5 PK	68.2	-11.7	1.65 H	196	37.7	18.8

**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.

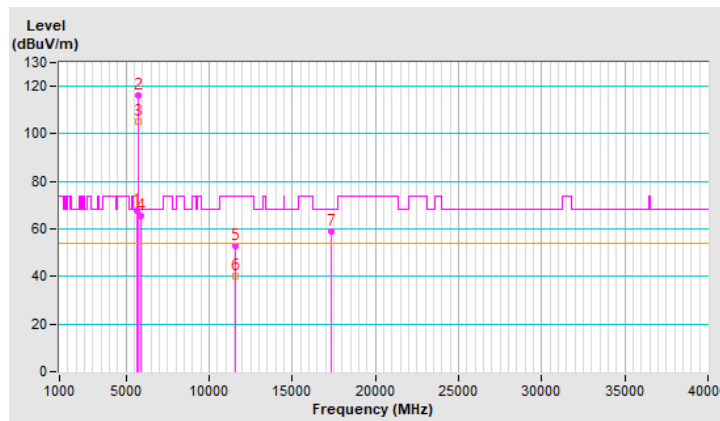


<b>RF Mode</b>	TX 802.11ax (HE80)	<b>Channel</b>	CH 155 : 5775 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	#5641.28	67.8 PK	68.2	-0.4	1.76 V	90	62.9	4.9
2	*5775.00	116.4 PK			1.76 V	90	111.2	5.2
3	*5775.00	105.0 AV			1.76 V	90	99.8	5.2
4	#5931.03	65.4 PK	68.2	-2.8	1.76 V	90	59.9	5.5
5	11550.00	53.0 PK	74.0	-21.0	1.92 V	311	38.0	15.0
6	11550.00	40.4 AV	54.0	-13.6	1.92 V	311	25.4	15.0
7	#17325.00	58.7 PK	68.2	-9.5	2.53 V	317	39.9	18.8

**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.

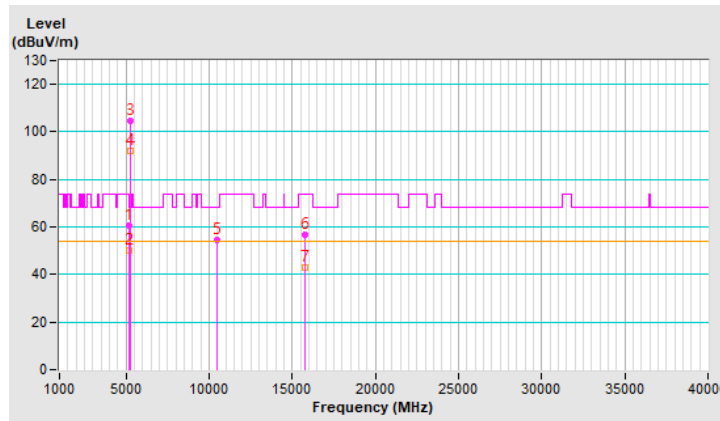


<b>RF Mode</b>	TX 802.11ax (HE160)	<b>Channel</b>	CH 50 : 5250 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5146.33	60.7 PK	74.0	-13.3	1.53 H	292	55.9	4.8
2	5146.33	50.3 AV	54.0	-3.7	1.53 H	292	45.5	4.8
3	*5250.00	104.6 PK			1.53 H	292	100.2	4.4
4	*5250.00	91.8 AV			1.53 H	292	87.4	4.4
5	#10500.00	54.3 PK	68.2	-13.9	3.58 H	240	39.8	14.5
6	15750.00	56.7 PK	74.0	-17.3	1.75 H	200	43.2	13.5
7	15750.00	42.7 AV	54.0	-11.3	1.75 H	200	29.2	13.5

**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.

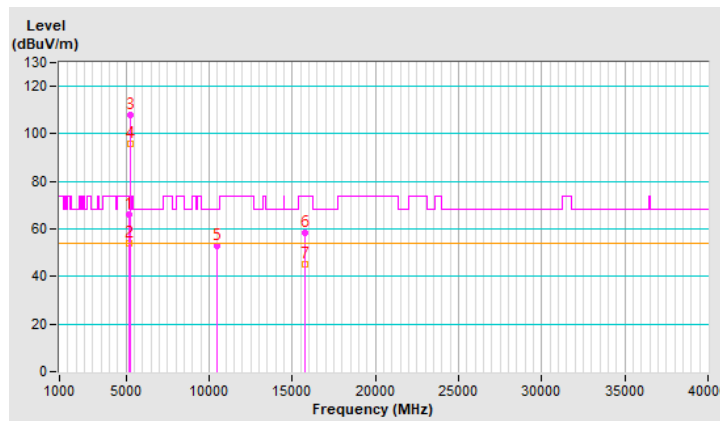


<b>RF Mode</b>	TX 802.11ax (HE160)	<b>Channel</b>	CH 50 : 5250 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5148.17	66.1 PK	74.0	-7.9	1.74 V	94	61.3	4.8
2	<b>5148.17</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.74 V</b>	<b>94</b>	<b>49.1</b>	<b>4.8</b>
3	*5250.00	107.8 PK			1.74 V	94	103.4	4.4
4	*5250.00	95.7 AV			1.74 V	94	91.3	4.4
5	#10500.00	52.9 PK	68.2	-15.3	1.85 V	305	38.4	14.5
6	15750.00	58.6 PK	74.0	-15.4	2.47 V	304	45.1	13.5
7	15750.00	44.9 AV	54.0	-9.1	2.47 V	304	31.4	13.5

**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.

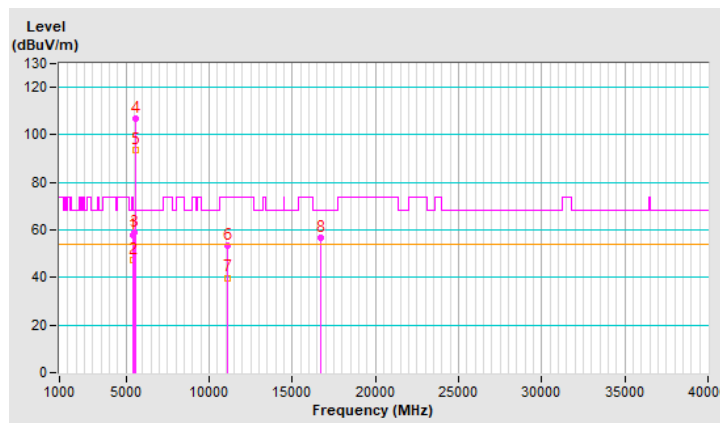


<b>RF Mode</b>	TX 802.11ax (HE160)	<b>Channel</b>	CH 114 : 5570 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5456.54	57.7 PK	74.0	-16.3	1.54 H	270	52.9	4.8
2	5456.54	47.6 AV	54.0	-6.4	1.54 H	270	42.8	4.8
3	#5466.09	58.7 PK	68.2	-9.5	1.54 H	270	53.9	4.8
4	*5570.00	107.0 PK			1.54 H	270	102.2	4.8
5	*5570.00	93.5 AV			1.54 H	270	88.7	4.8
6	11140.00	53.6 PK	74.0	-20.4	3.65 H	230	39.0	14.6
7	11140.00	39.9 AV	54.0	-14.1	3.65 H	230	25.3	14.6
8	#16710.00	56.5 PK	68.2	-11.7	1.72 H	194	39.9	16.6

**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.

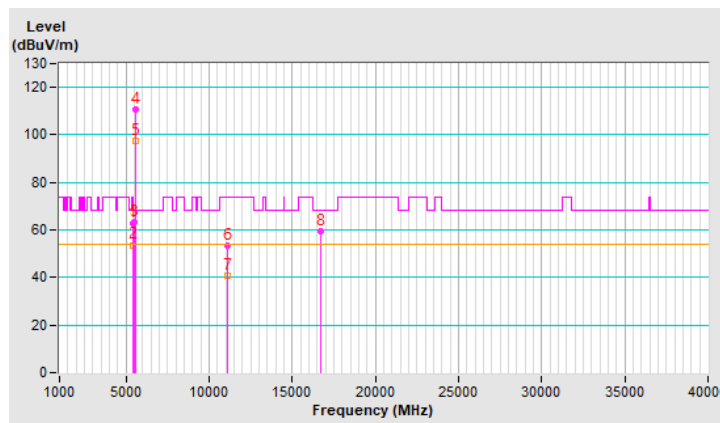


<b>RF Mode</b>	TX 802.11ax (HE160)	<b>Channel</b>	CH 114 : 5570 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Ryan Du		

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	5455.95	62.8 PK	74.0	-11.2	1.72 V	106	58.0	4.8
2	5455.95	53.7 AV	54.0	-0.3	1.72 V	106	48.9	4.8
3	#5465.71	63.1 PK	68.2	-5.1	1.72 V	106	58.3	4.8
4	*5570.00	110.8 PK			1.72 V	106	106.0	4.8
5	*5570.00	97.3 AV			1.72 V	106	92.5	4.8
6	11140.00	53.3 PK	74.0	-20.7	1.80 V	313	38.7	14.6
7	11140.00	40.6 AV	54.0	-13.4	1.80 V	313	26.0	14.6
8	#16710.00	59.5 PK	68.2	-8.7	2.56 V	312	42.9	16.6

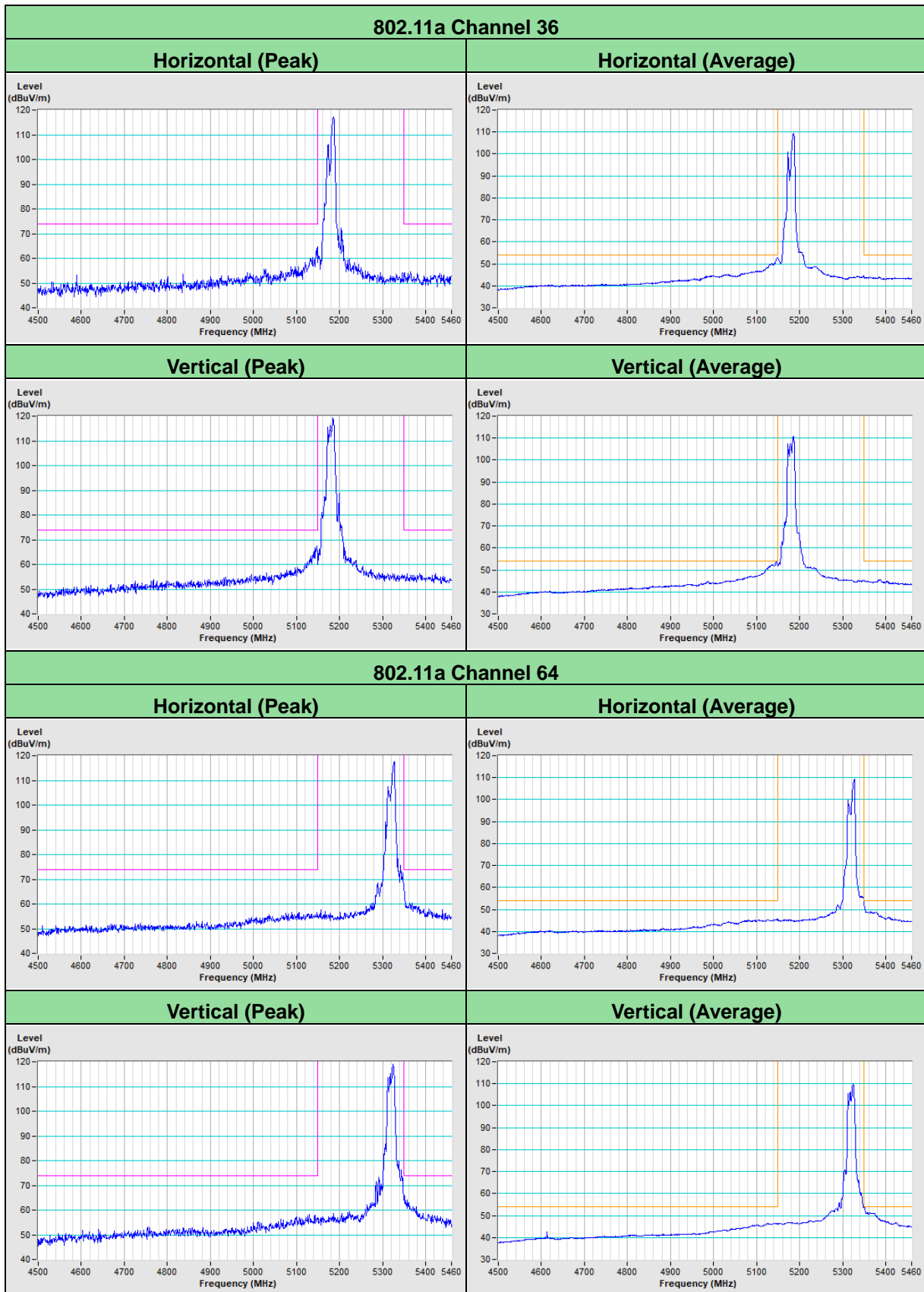
**Remarks:**

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.





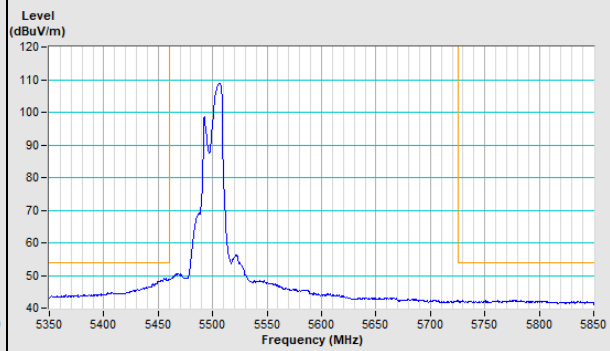
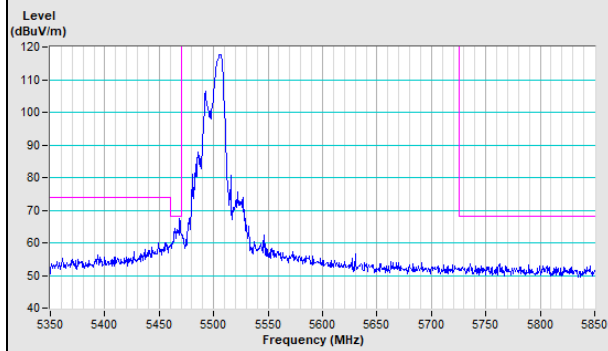
### Plot of Band Edge



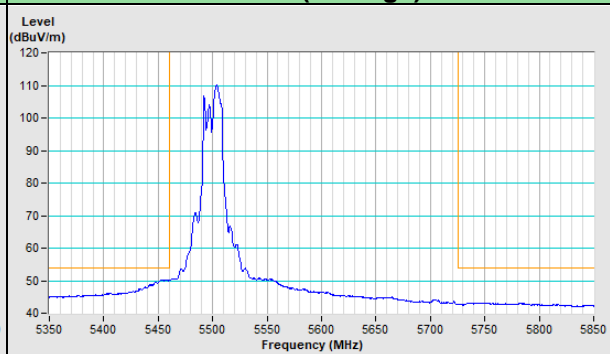
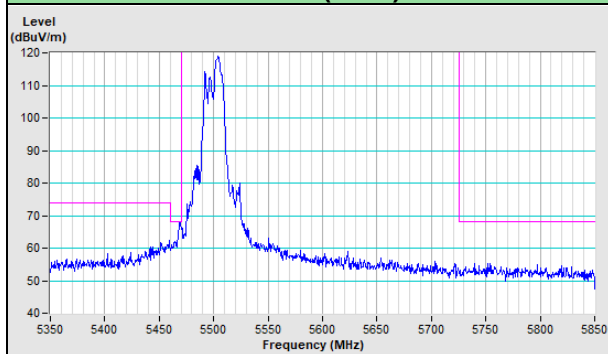


### 802.11a Channel 100

#### Horizontal (Peak)      Horizontal (Average)

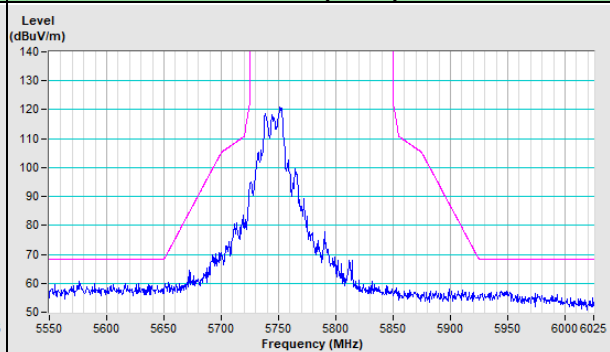
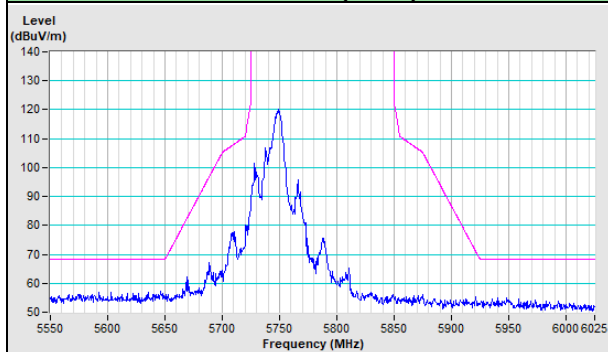


#### Vertical (Peak)      Vertical (Average)



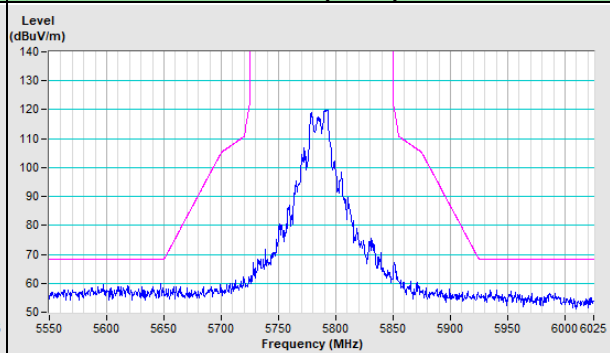
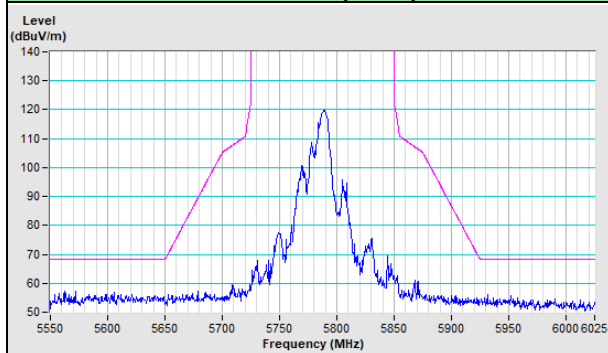
### 802.11a Channel 149

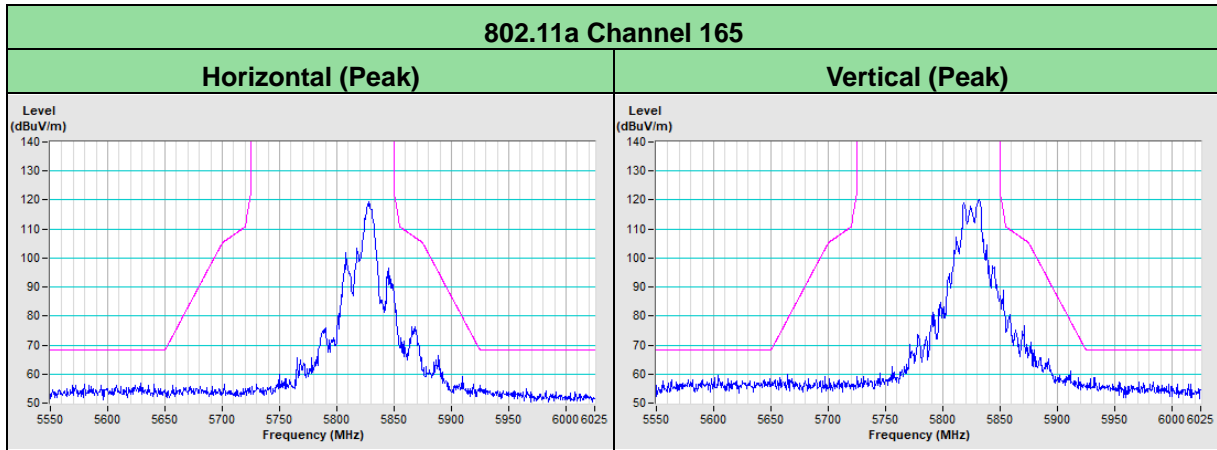
#### Horizontal (Peak)      Vertical (Peak)



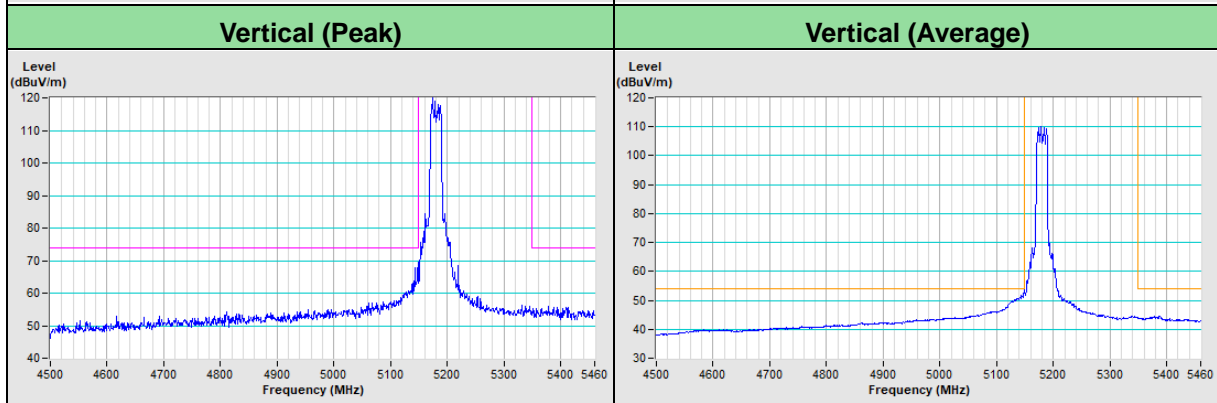
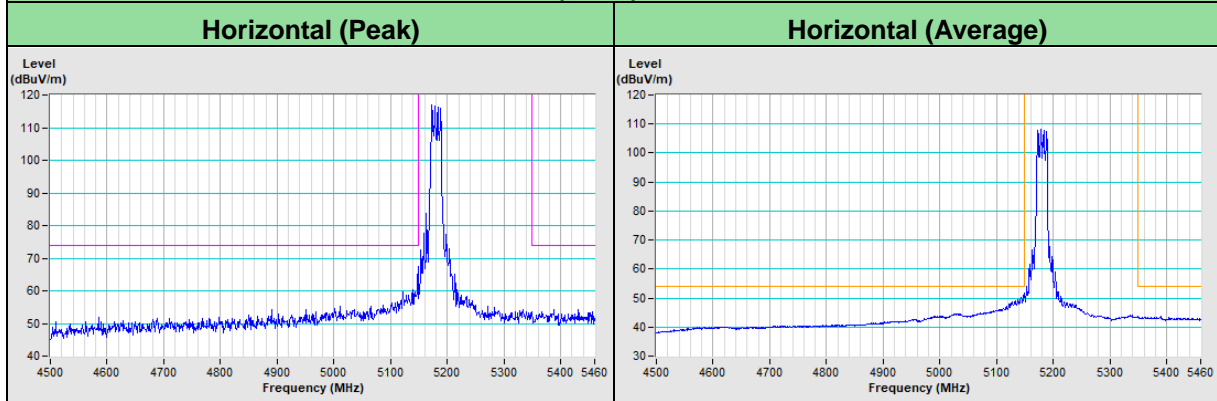
### 802.11a Channel 157

#### Horizontal (Peak)      Vertical (Peak)

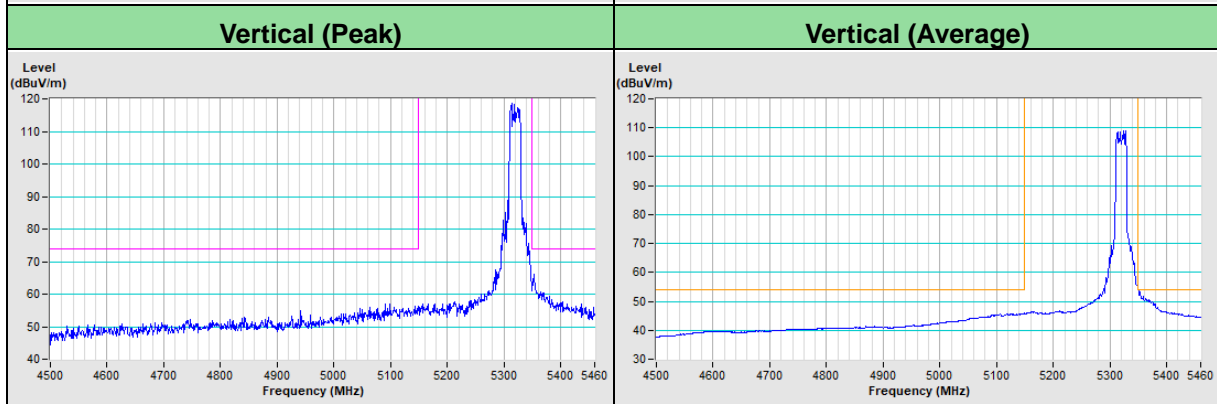
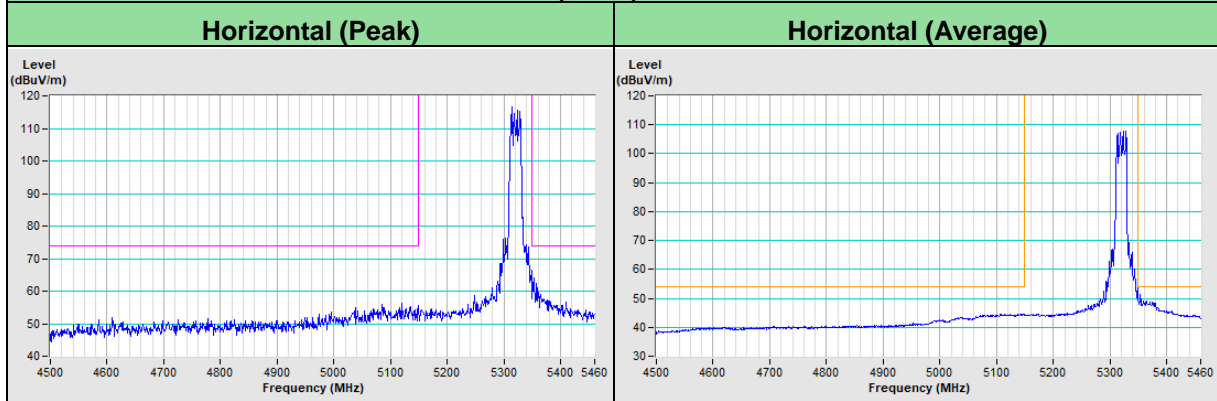




### 802.11ax (HE20) Channel 36

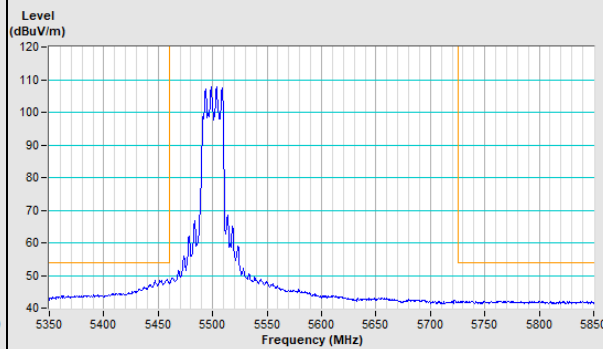
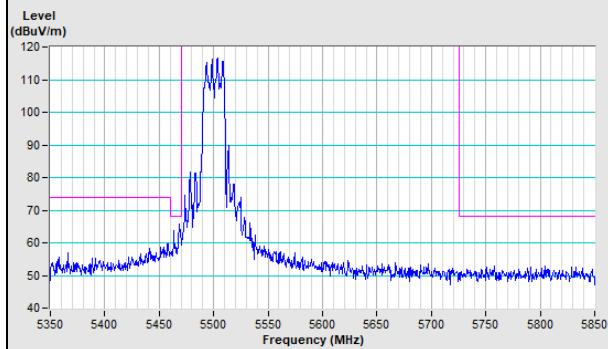


### 802.11ax (HE20) Channel 64

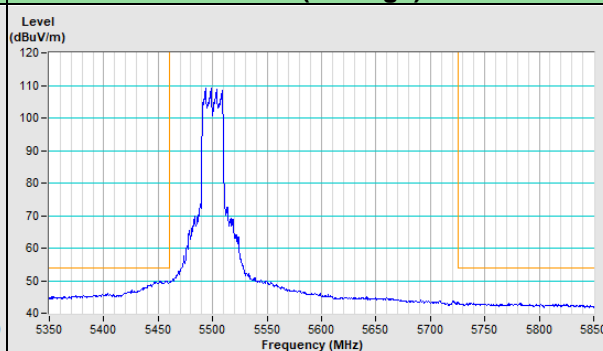
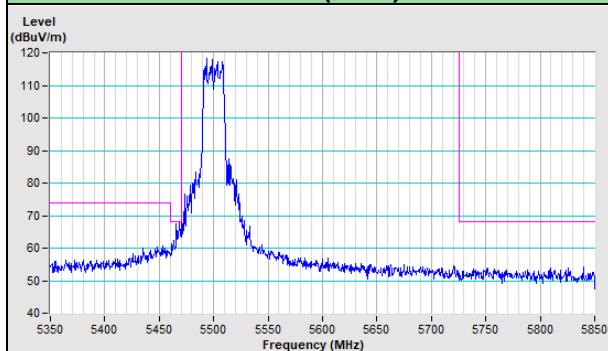


### 802.11ax (HE20) Channel 100

#### Horizontal (Peak)      Horizontal (Average)

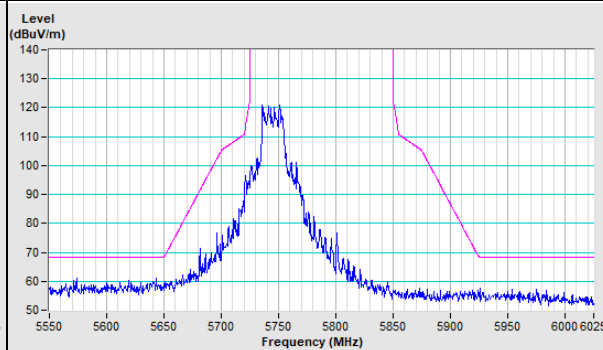
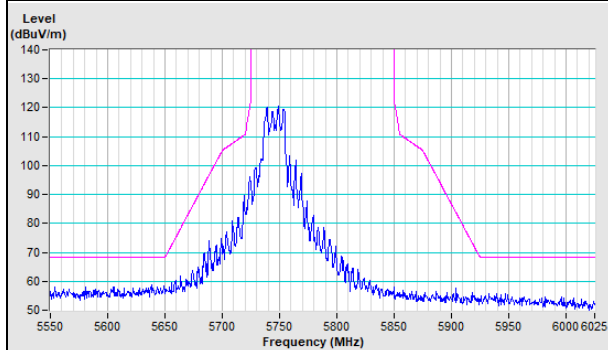


#### Vertical (Peak)      Vertical (Average)



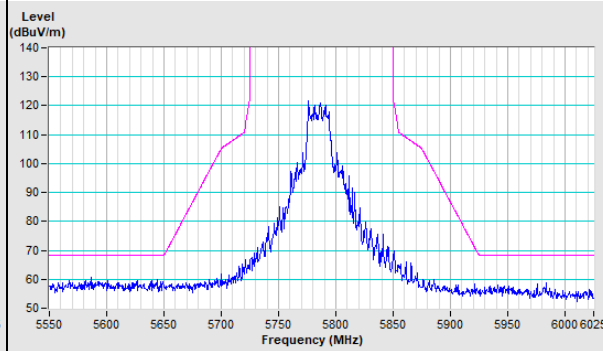
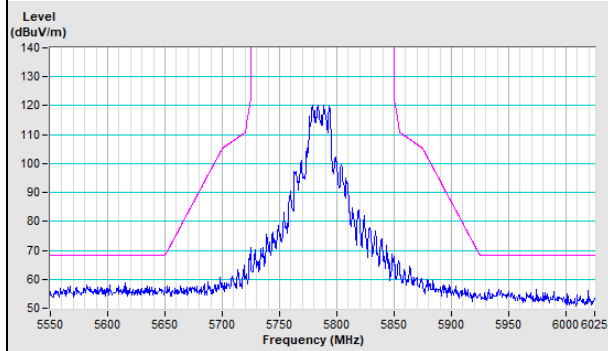
### 802.11ax (HE20) Channel 149

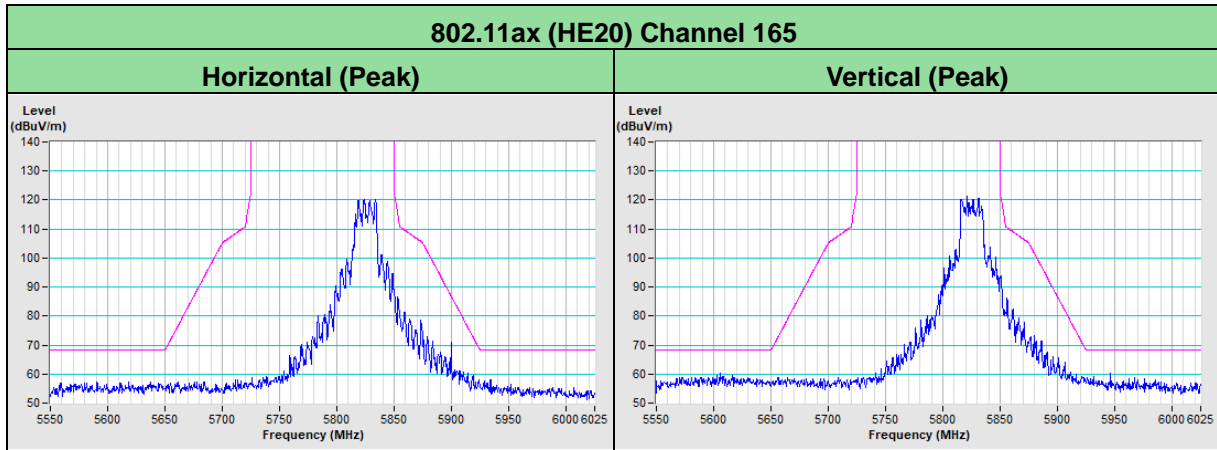
#### Horizontal (Peak)      Vertical (Peak)

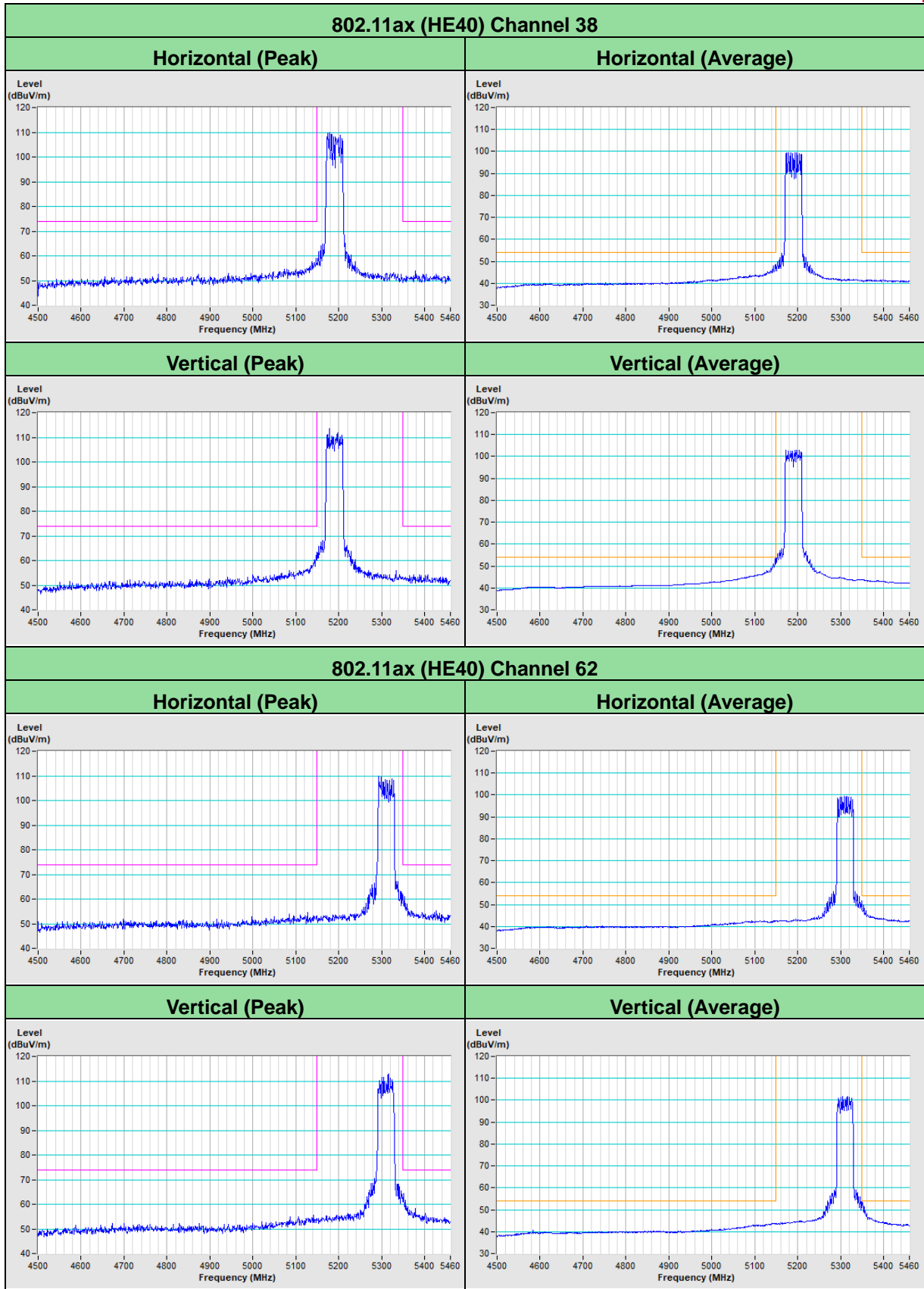


### 802.11ax (HE20) Channel 157

#### Horizontal (Peak)      Vertical (Peak)

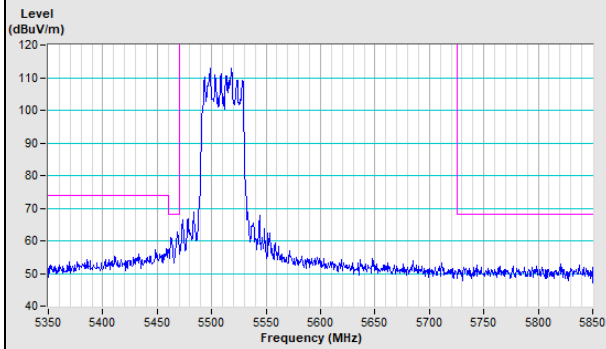




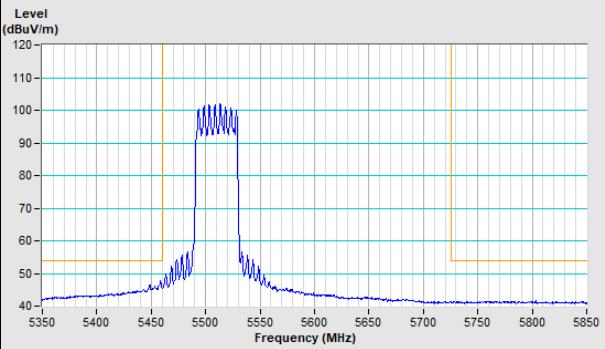


### 802.11ax (HE40) Channel 102

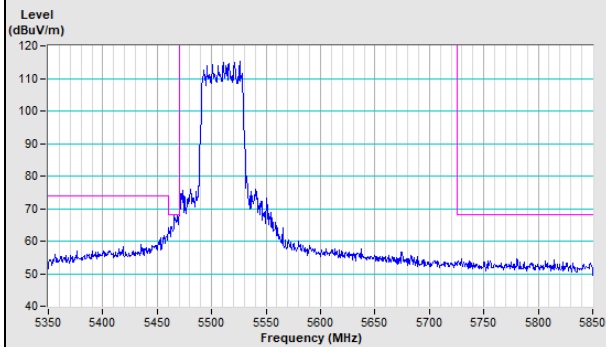
#### Horizontal (Peak)



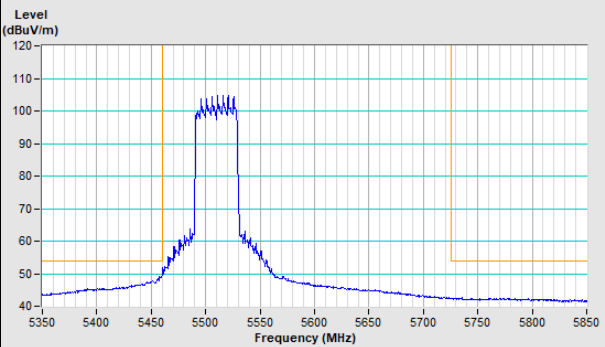
#### Horizontal (Average)



#### Vertical (Peak)

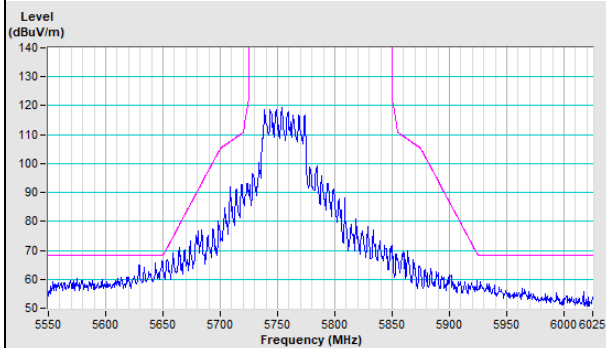


#### Vertical (Average)

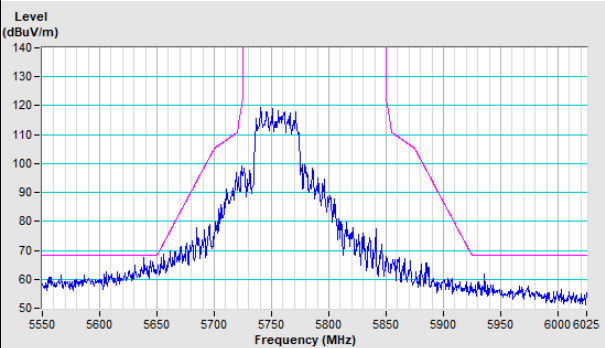


### 802.11ax (HE40) Channel 151

#### Horizontal (Peak)

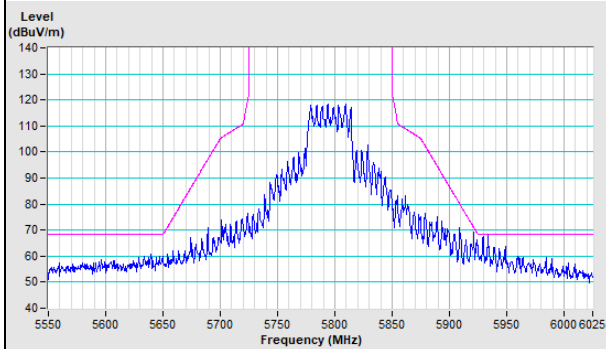


#### Vertical (Peak)

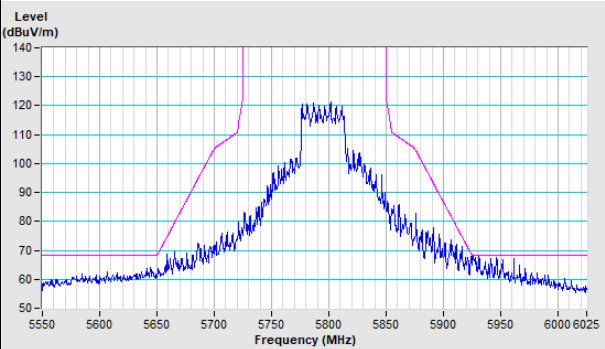


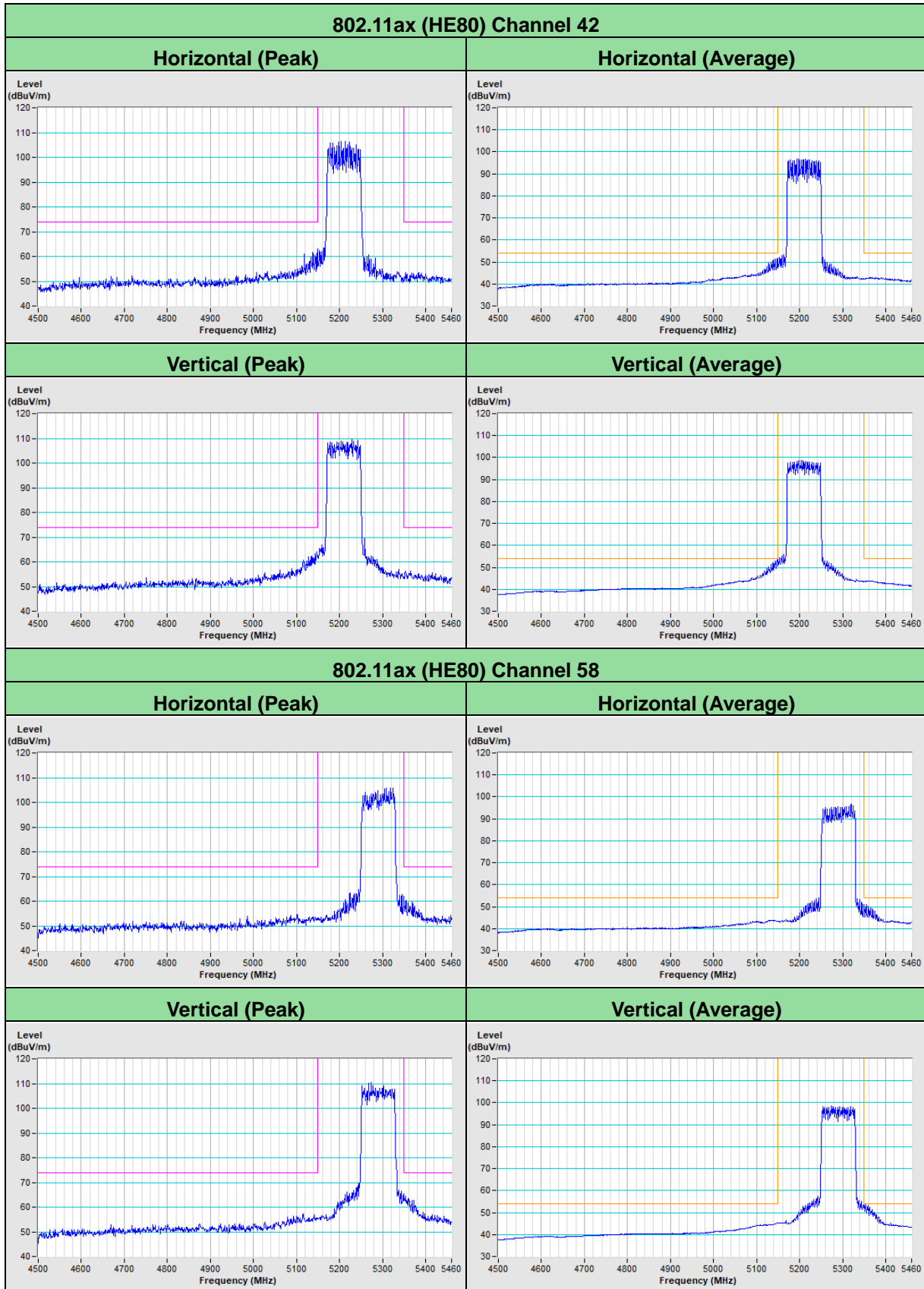
### 802.11ax (HE40) Channel 159

#### Horizontal (Peak)



#### Vertical (Peak)



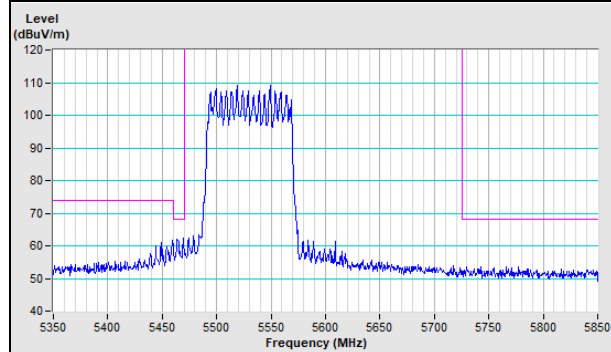




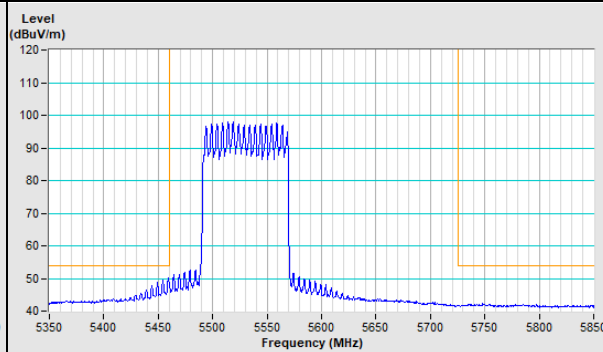


### 802.11ax (HE80) Channel 106

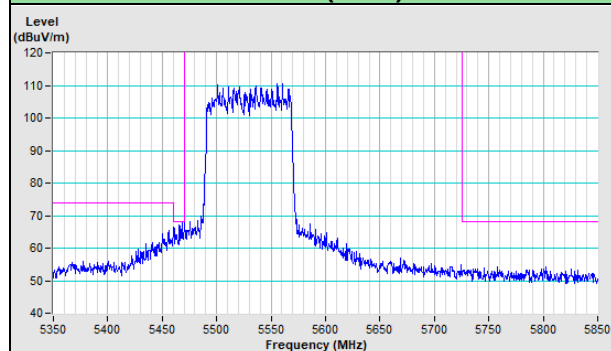
#### Horizontal (Peak)



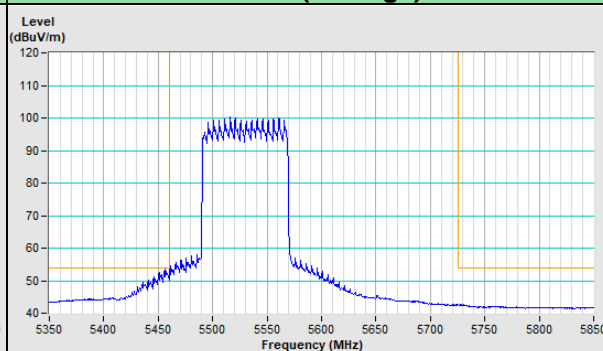
#### Horizontal (Average)



#### Vertical (Peak)

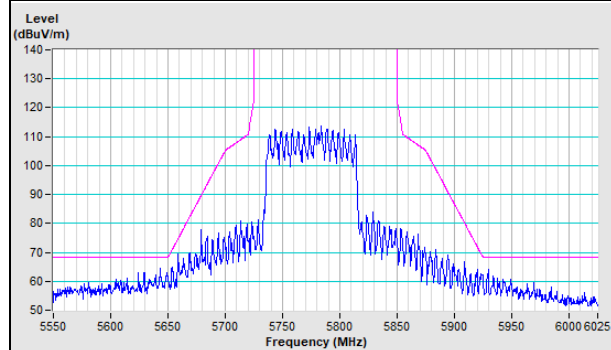


#### Vertical (Average)

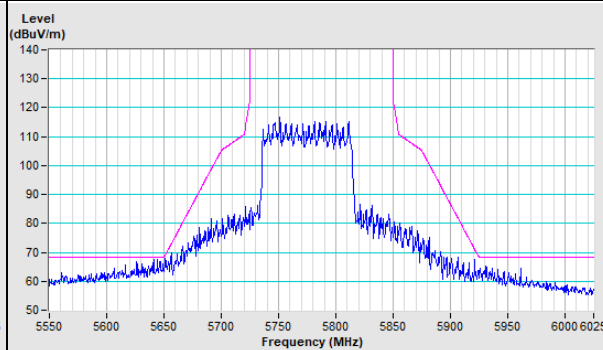


### 802.11ax (HE80) Channel 155

#### Horizontal (Peak)

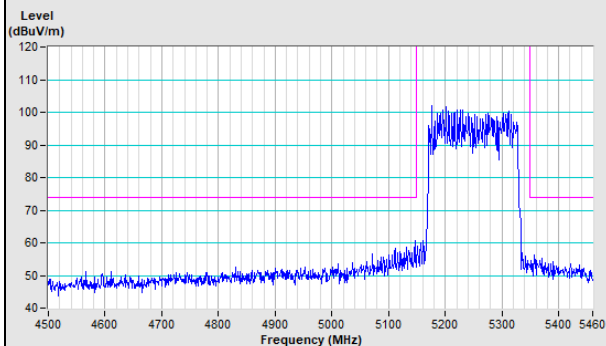


#### Vertical (Peak)

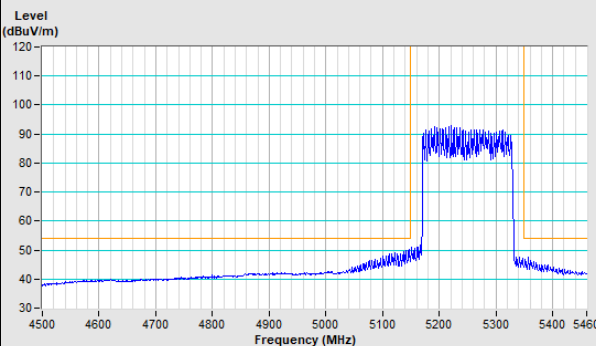


### 802.11ax (HE160) Channel 50

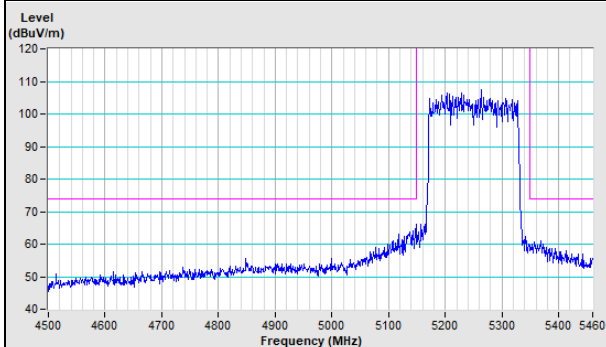
#### Horizontal (Peak)



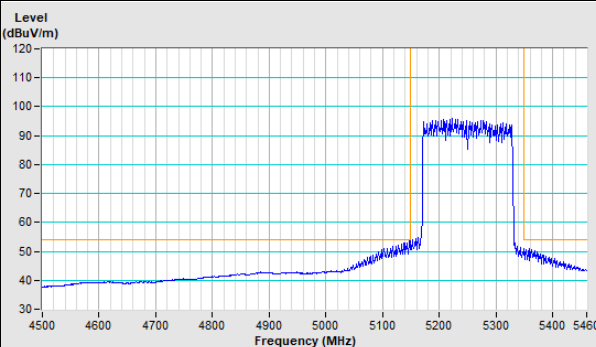
#### Horizontal (Average)



#### Vertical (Peak)

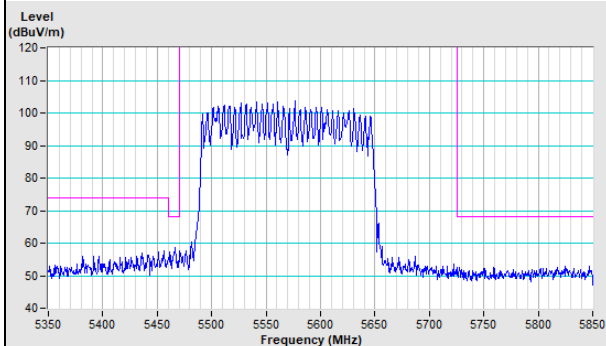


#### Vertical (Average)

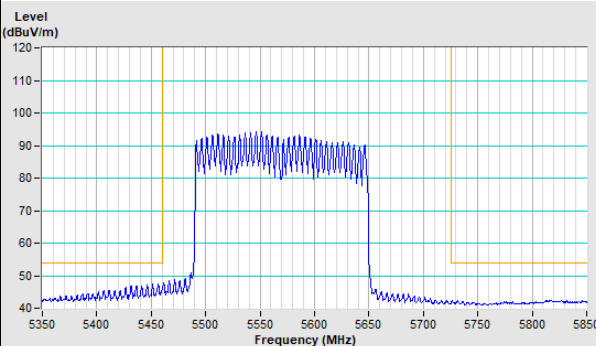


### 802.11ax (HE160) Channel 114

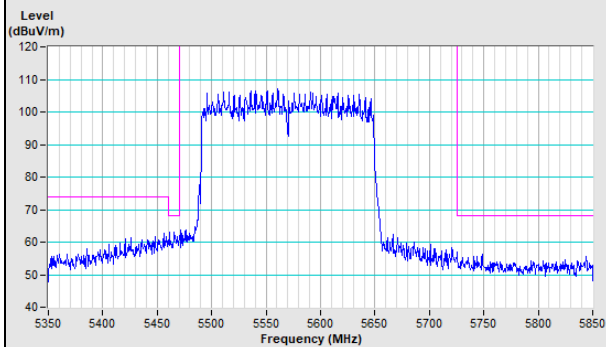
#### Horizontal (Peak)



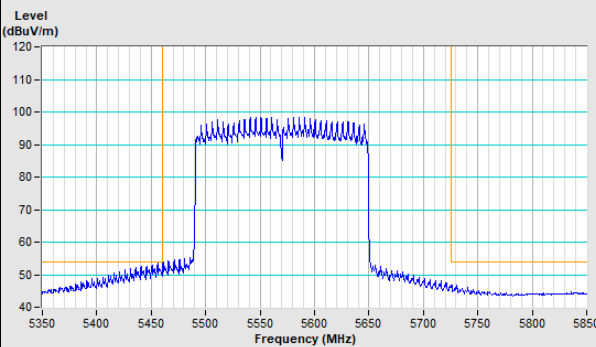
#### Horizontal (Average)



#### Vertical (Peak)



#### Vertical (Average)



## 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:

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**Email:** [service.adt@bureauveritas.com](mailto: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.

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