

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBFBE-WTW-P23080579-1
FCC ID: Z8H89FT0080
Product: RV22 Wi-Fi 6 Home MESH Router dual band
Brand: Cambium Networks
Model No.: RV22
Received Date: 2023/8/22
Test Date: 2023/8/22 ~ 2023/9/15
Issued Date: 2023/10/26
Applicant: Cambium Networks Inc.
Address: 3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
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: _____

2023/10/26

Wen Yu / Assistant Manager

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBFBE-WTW-P23080579-1	Original release.	2023/10/26

1 Certificate

Product: RV22 Wi-Fi 6 Home MESH Router dual band
Brand: Cambium Networks
Test Model: RV22
Sample Status: Engineering sample
Applicant: Cambium Networks Inc.
Test Date: 2023/8/22 ~ 2023/9/15
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(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 -15.68 dB at 0.15000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.9 dB at 104.65 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5148.50, 5150.00 and 5466.40 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

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	RV22 Wi-Fi 6 Home MESH Router dual band
Brand	Cambium Networks
Test Model	RV22
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps (MCS0 to MCS15) 802.11ac: up to 1733.3 Mbps (MCS0 to MCS9, NSS=1 to 2) 802.11ax: up to 2401.9 Mbps (MCS0 to MCS11, NSS=1 to 2)
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
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	CDD Mode: 5.18 GHz ~ 5.25 GHz : 681.072 mW (28.33 dBm) 5.25 GHz ~ 5.32 GHz : 247.298 mW (23.93 dBm) 5.5 GHz ~ 5.72 GHz : 243.688 mW (23.87 dBm) 5.745 GHz ~ 5.825 GHz : 969.402 mW (29.87 dBm) Beamforming Mode: 5.18 GHz ~ 5.25 GHz : 536.426 mW (27.3 dBm) 5.25 GHz ~ 5.32 GHz : 247.298 mW (23.93 dBm) 5.5 GHz ~ 5.72 GHz : 243.688 mW (23.87 dBm) 5.745 GHz ~ 5.825 GHz : 763.566 mW (28.83 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

AC Adapter					
Brand	Model	AC Input	DC Output	DC Output Cable	Plug
FRECOM	F18L16-120150SPAU	100-240 V, 50/60 Hz, 0.6 A	12 V==1.5 A	1.5 m without core non-shielded	US
Ethernet Cable					
Specification					
1.5 m without core non-shielded					

2. There are WLAN (2.4 GHz) and WLAN (5 GHz) technology used for the EUT.

3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4 GHz	WLAN 5 GHz

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

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers 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
ANT 1	1	HWA YU	56-001-000448Z	4.73	2.4~2.4835	Dipole	ipex(MHF)
ANT 2	2	HWA YU	56-001-000449Z	5.36	2.4~2.4835	Dipole	ipex(MHF)
ANT 3	3	HWA YU	56-001-000450Z	3.95	5.15~5.25	Dipole	ipex(MHF)
				3.48	5.25~5.35		
				3.26	5.47~5.725		
				3.67	5.725~5.85		
ANT 4	4	HWA YU	56-001-000451Z	2.84	5.15~5.25	Dipole	ipex(MHF)
				2.84	5.25~5.35		
				3.81	5.47~5.725		
				2.67	5.725~5.85		
ANT 5	5	HWA YU	56-001-000452Z	3.24	5.15~5.25	Dipole	ipex(MHF)
				3.24	5.25~5.35		
				4.36	5.47~5.725		
				4.36	5.725~5.85		

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

Directional Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
5.81	2.4~2.4835	Dipole	ipex(MHF)
4.32	5.15~5.25		
4.32	5.25~5.35		
4.9	5.47~5.725		
5.25	5.725~5.85		

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

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	3TX	3RX
802.11n (HT20)	3TX	3RX
802.11n (HT40)	3TX	3RX
802.11ac (VHT20)	3TX	3RX
802.11ac (VHT40)	3TX	3RX
802.11ac (VHT80)	3TX	3RX
802.11ac (VHT160)	3TX	3RX
802.11ax (HE20)	3TX	3RX
802.11ax (HE40)	3TX	3RX
802.11ax (HE80)	3TX	3RX
802.11ax (HE160)	3TX	3RX

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 (40 MHz, 80 MHz, 160 MHz) therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode 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), 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), 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), 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), 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), 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), 802.11ax (HE80):

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

1 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), 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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Power Setting

Power Setting								
Channel	802.11a	802.11ac (VHT20) CDD	Channel	802.11ac (VHT40) CDD	Channel	802.11ac (VHT80) CDD	Channel	802.11ac (VHT160) CDD
36	19.5	20	38	16.5	42	15	50	15.5
40	20.5	21	46	19.5	58	14	114	15.5
48	21	20	54	17.5	106	15		
52	16.5	17.5	62	16	122	17.5		
60	17	18	102	16.5	138	17.5		
64	16.5	17.5	110	17.5	155	18		
100	16.5	18	134	17.5				
116	16.5	18	142	17.5				
140	16.5	17.5	151	21.5				
144	16.5	17.5	159	22.5				
149	23.5	23.5						
157	23.5	23.5						
165	23.5	23.5						

Power Setting							
Channel	802.11ax (HE20) CDD	Channel	802.11ax (HE40) CDD	Channel	802.11ax (HE80) CDD	Channel	802.11ax (HE160) CDD
36	20	38	16.5	42	15	50	15.5
40	21	46	19.5	58	14	114	15.5
48	20	54	17.5	106	15		
52	17.5	62	16	122	17.5		
60	18	102	16.5	138	17.5		
64	17.5	110	17.5	155	18		
100	18	134	17.5				
116	18	142	17.5				
140	17.5	151	21.5				
144	17.5	159	22.5				
149	23.5						
157	23.5						
165	23.5						

Power Setting							
Channel	802.11ac (VHT20) Beamforming	Channel	802.11ac (VHT40) Beamforming	Channel	802.11ac (VHT80) Beamforming	Channel	802.11ac (VHT160) Beamforming
36	20	38	16.5	42	15	50	15.5
40	21	46	19.5	58	14	114	15.5
48	20	54	17.5	106	15		
52	17.5	62	16	122	17.5		
60	18	102	16.5	138	17.5		
64	17.5	110	17.5	155	18		
100	18	134	17.5				
116	18	142	17.5				
140	17.5	151	21.5				
144	17.5	159	22.5				
149	23.5						
157	23.5						
165	23.5						

Power Setting							
Channel	802.11ax (HE20) Beamforming	Channel	802.11ax (HE40) Beamforming	Channel	802.11ax (HE80) Beamforming	Channel	802.11ax (HE160) Beamforming
36	20	38	16.5	42	15	50	15.5
40	21	46	19.5	58	14	114	15.5
48	20	54	17.5	106	15		
52	17.5	62	16	122	17.5		
60	18	102	16.5	138	17.5		
64	17.5	110	17.5	155	18		
100	18	134	17.5				
116	18	142	17.5				
140	17.5	151	21.5				
144	17.5	159	22.5				
149	23.5						
157	23.5						
165	23.5						

3.5 Test Mode Applicability and Tested Channel Detail

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	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
	802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	802.11a	-	36	unmodulated	-
AC Power Conducted Emissions	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	CDD	149	BPSK	6Mb/s
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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Note: Partial RU (resource unit) mechanism is not supported.					

3.6 Duty Cycle of Test Signal

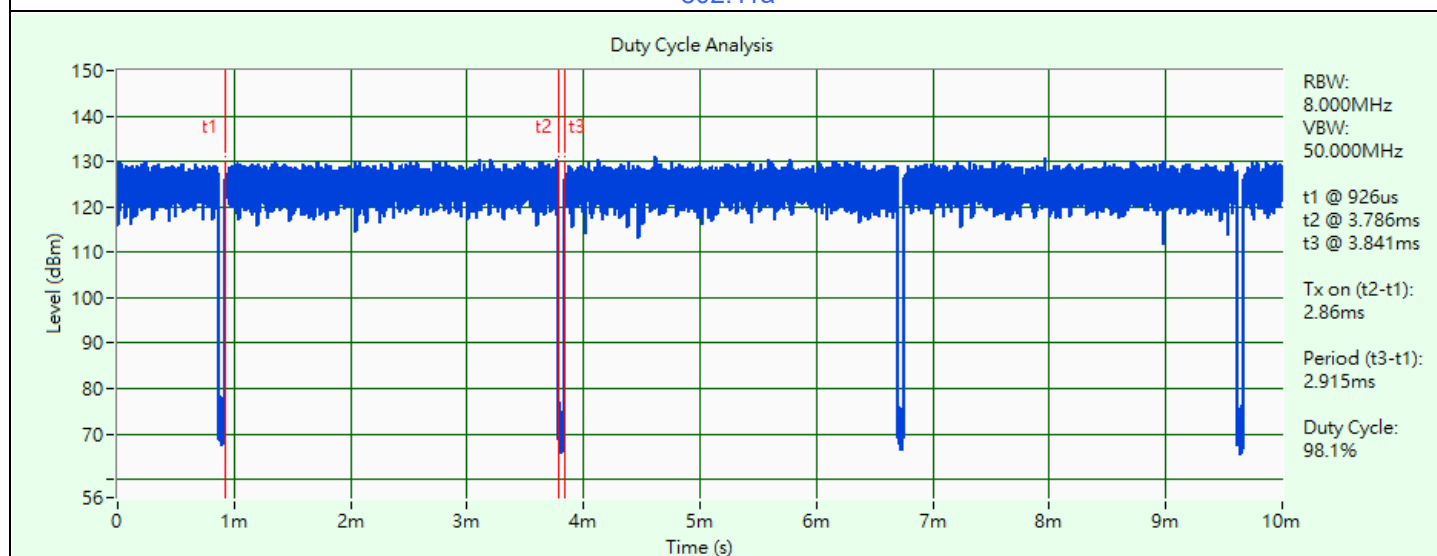
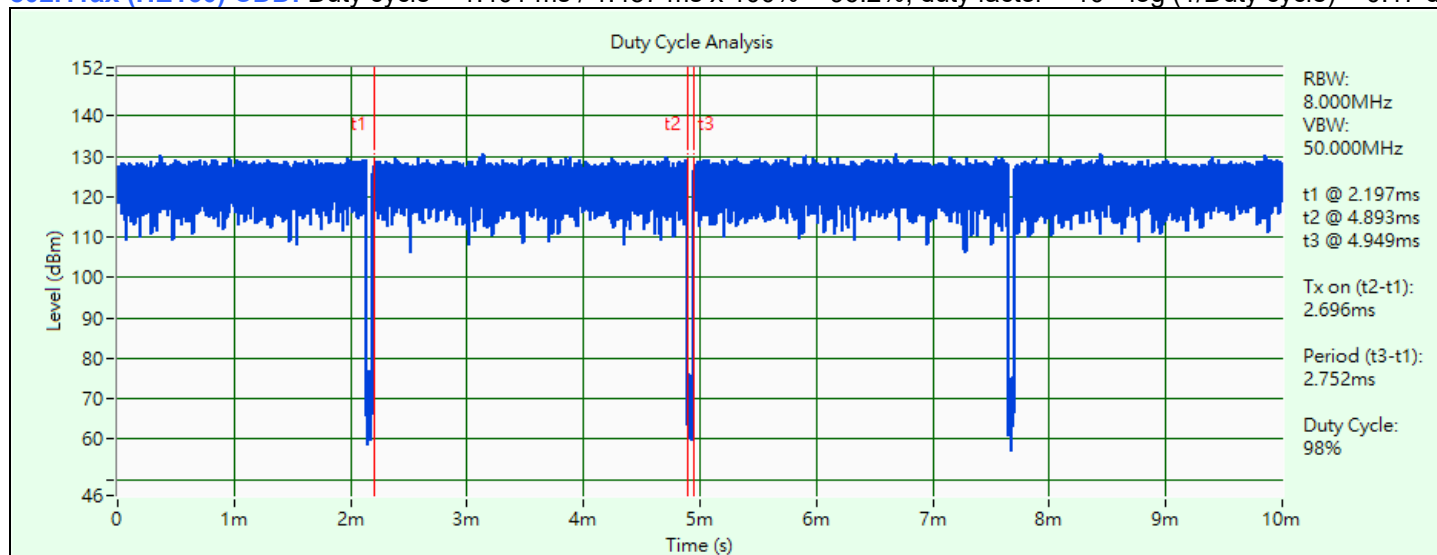
802.11a: Duty cycle = 2.696 ms / 2.752 ms x 100% = 98.0%

802.11ax (HE20) CDD: Duty cycle = 2.86 ms / 2.915 ms x 100% = 98.1%

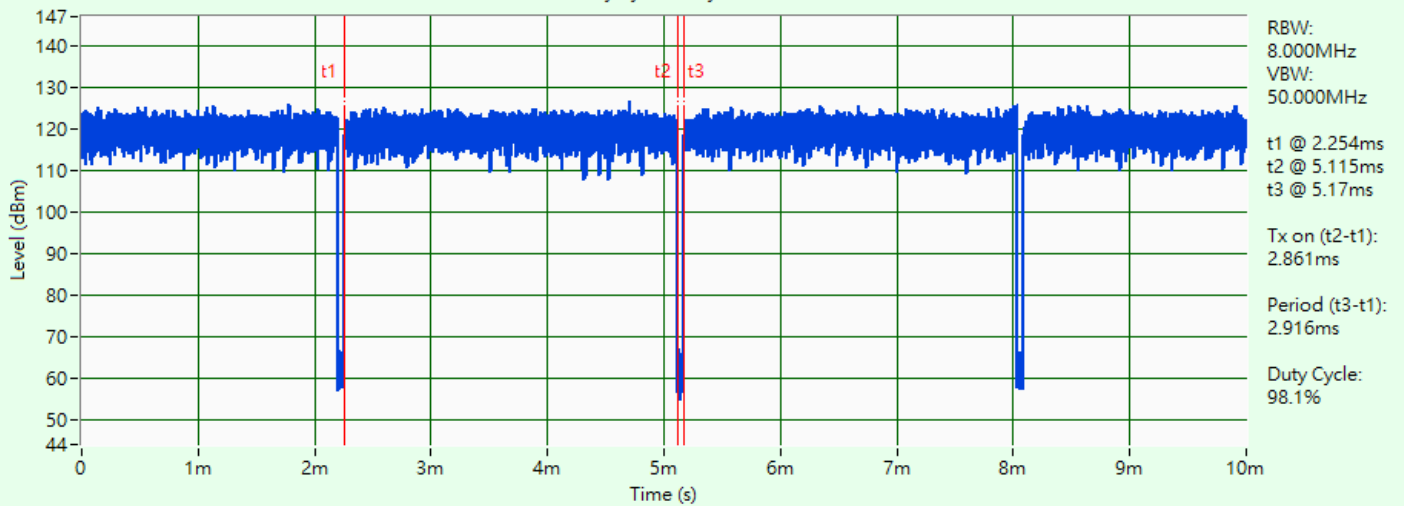
802.11ax (HE40) CDD: Duty cycle = 2.861 ms / 2.916 ms x 100% = 98.1%

802.11ax (HE80) CDD: Duty cycle = 2.734 ms / 2.79 ms x 100% = 98.0%

802.11ax (HE160) CDD: Duty cycle = 1.401 ms / 1.457 ms x 100% = 96.2%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.17$ dB

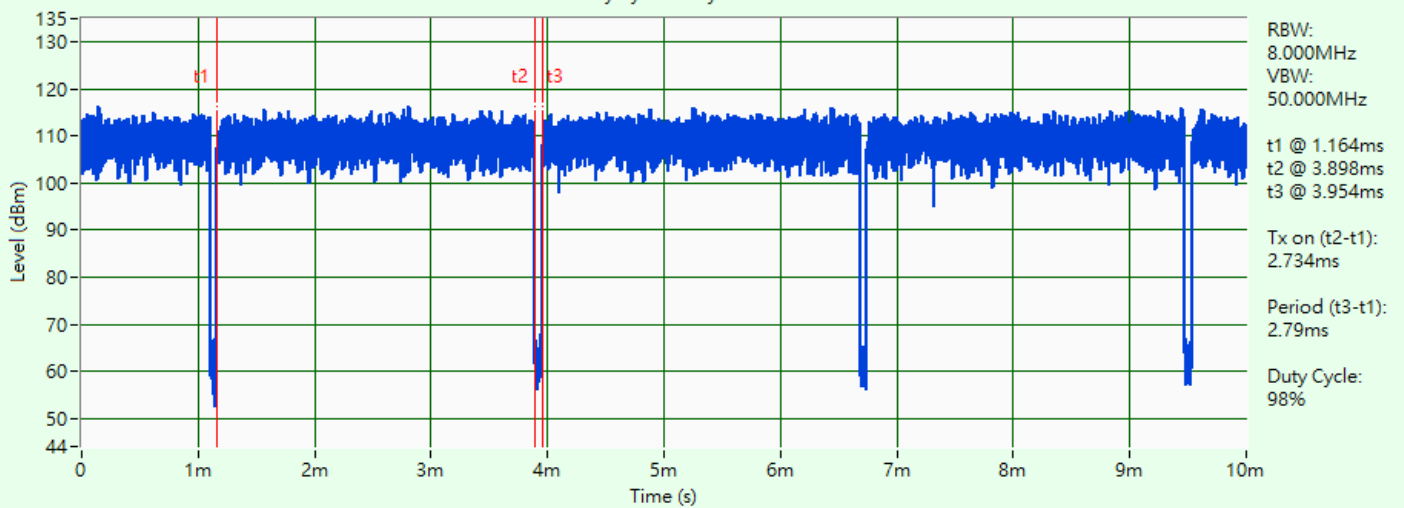


Duty Cycle Analysis



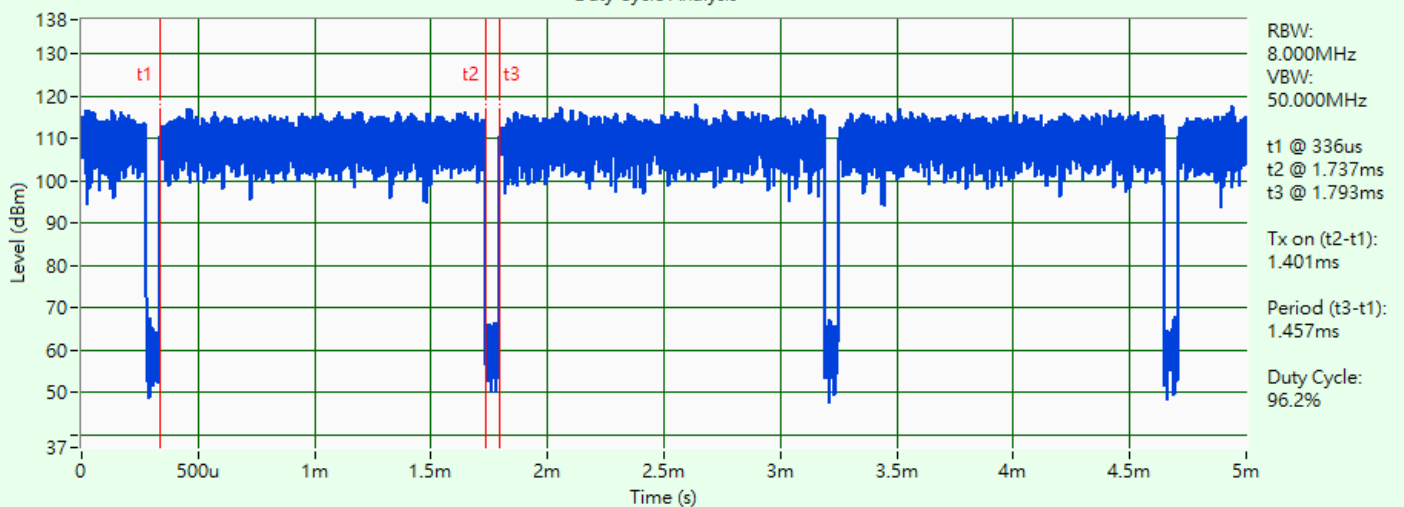
802.11ax (HE40) CDD

Duty Cycle Analysis



802.11ax (HE80) CDD

Duty Cycle Analysis

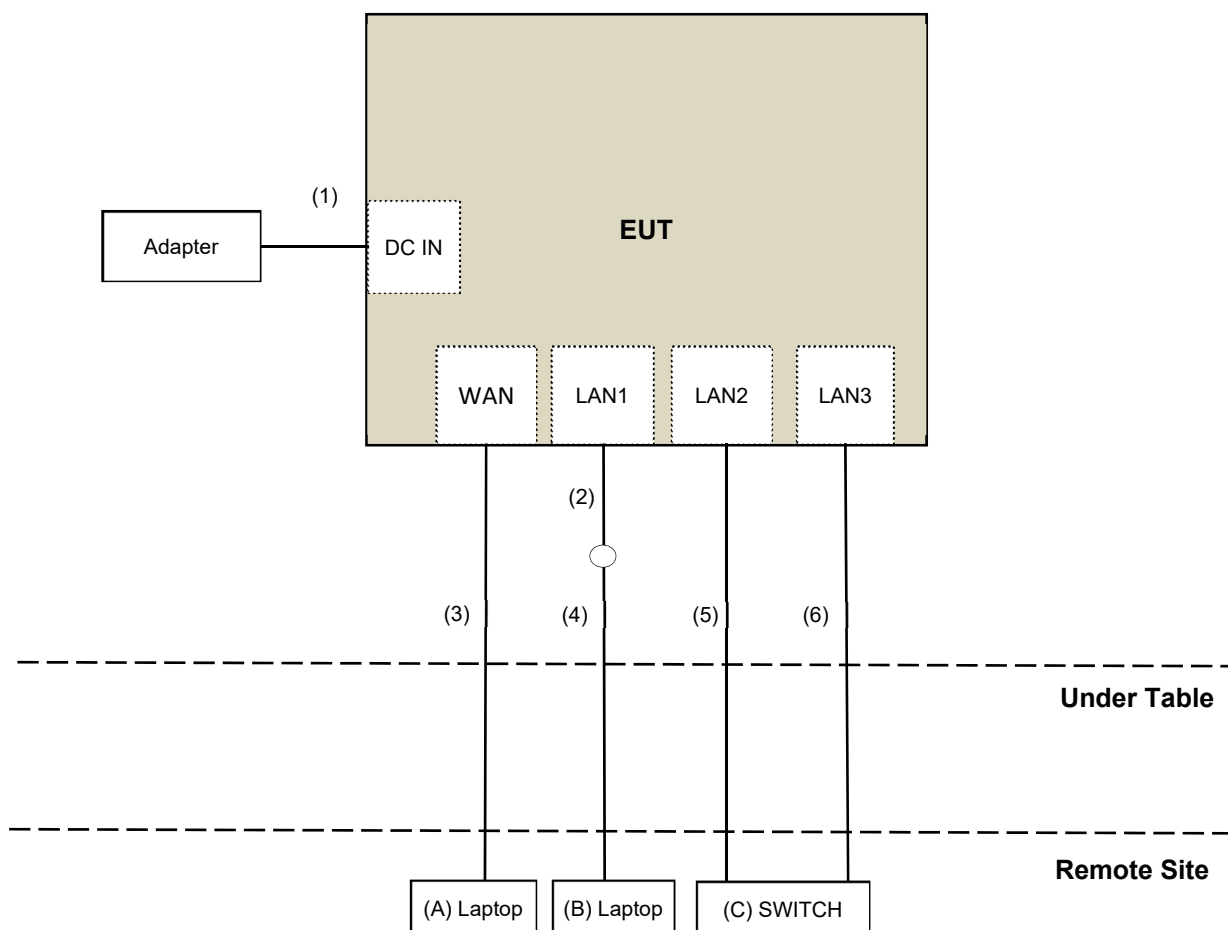


802.11ax (HE160) CDD

3.7 Test Program Used and Operation Descriptions

Controlling software (QATool_Ulv2.78_DLLv6.83_ap_2021.11.05_Custom) 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	Laptop	DELL	E6440	F9LYQ32	DoC	Provided by Lab
B	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
C	SWITCH	D-Link	DGS-1005D	DR8WC92000523	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	1.5	NO	0	Supplied by applicant
3	RJ-45 Cable	1	10	NO	0	Provided by Lab
4	RJ-45 Cable	1	10	NO	0	Provided by Lab
5	RJ-45 Cable	1	10	NO	0	Provided by Lab
6	RJ-45 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
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/9/15

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Power Meter Anritsu	ML2495A	1529002	2023/6/17	2024/6/16
Pulse Power Sensor Anritsu	MA2411B	1726434	2023/6/19	2024/6/18
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/9/15

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
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/12/26	2023/12/25
True RMS Clamp Meter FLUKE	325	31130711WS	2023/6/8	2024/6/7

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/9/15

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
EMI Test Receiver R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
Fixed Attenuator STI	STI02-2200-10	005	2023/7/1	2024/6/30
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2023/7/1	2024/6/30
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/9/12

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
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2022/10/21	2023/10/20
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2023/9/7	2024/9/6
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC330N	980852	2023/2/20	2024/2/19
	EMC001340	980142	2023/5/8	2024/5/7
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
RF Coaxial Cable PEWC	8D	966-3-2	2023/2/17	2024/2/16
		966-3-3	2023/2/17	2024/2/16
		966-4-1	2023/2/18	2024/2/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/9/9

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	BBHA 9120D	9120D-406	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC12630SE	980384	2023/8/9	2024/8/8
	EMC184045SE	980387	2023/8/9	2024/8/8
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2023/8/9	2024/8/8
	EMC104-SM-SM-1500	180504	2023/3/27	2024/3/26
	EMC104-SM-SM-2000	180601	2023/6/2	2024/6/1
	EMC104-SM-SM-6000	210201	2023/5/8	2024/5/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/8/22 ~ 2023/9/9

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

*B is the 26 dB emission bandwidth in megahertz

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

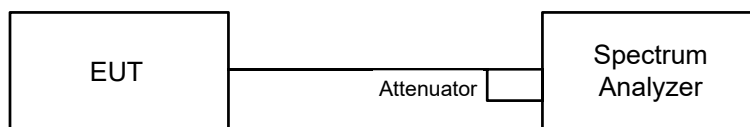
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

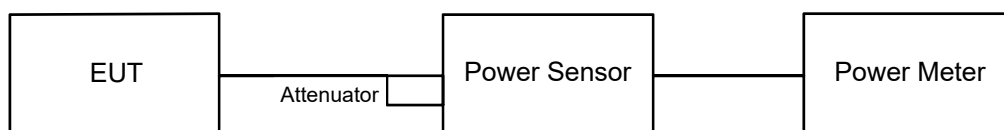


6.1.2 Test Procedure

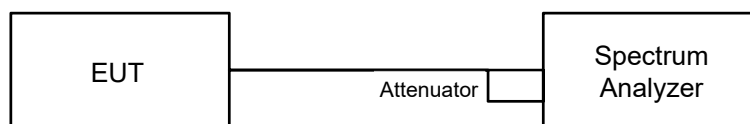
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement 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 $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, 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.

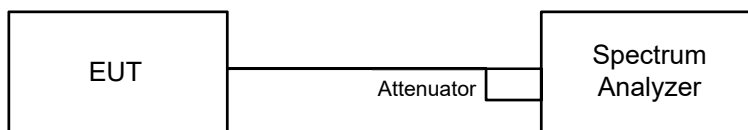
Method SA-2

- 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 $\leq \text{RBW} / 2$, 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-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 $\leq \text{RBW} / 2$, 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

Method SA-2

- 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 $\leq \text{RBW} / 2$, 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

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 $\leq \text{RBW} / 2$, 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

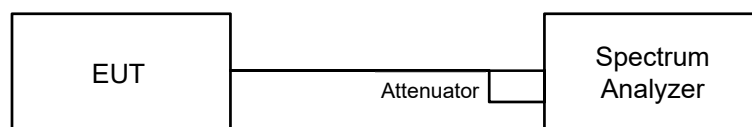
For specified measurement bandwidth 500 kHz:

Method SA-2

- 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup

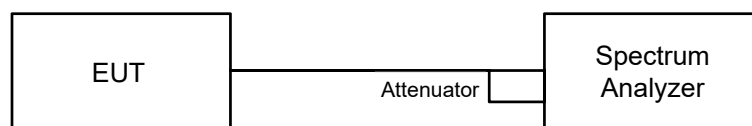


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$, 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

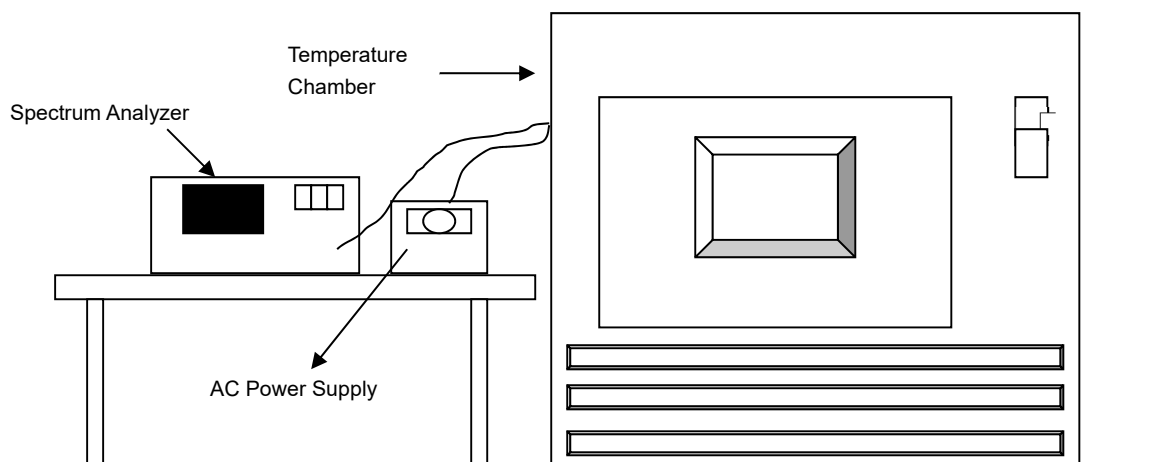


6.5.2 Test Procedure

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

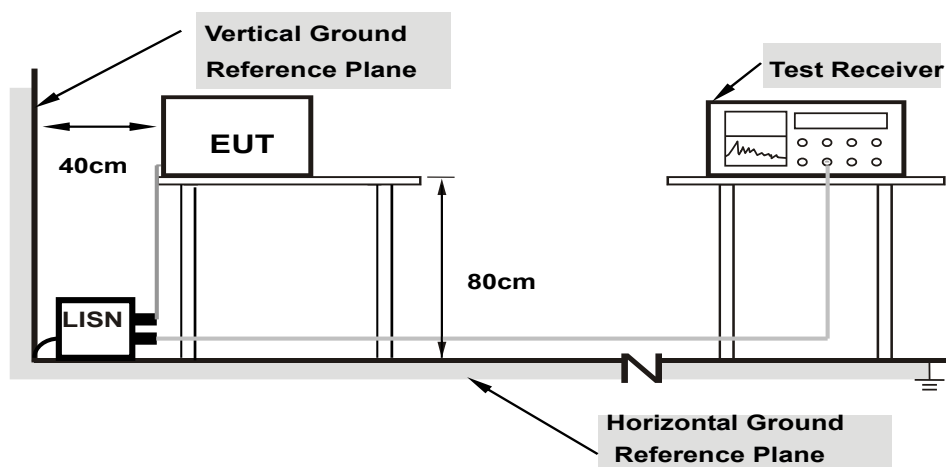


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- 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

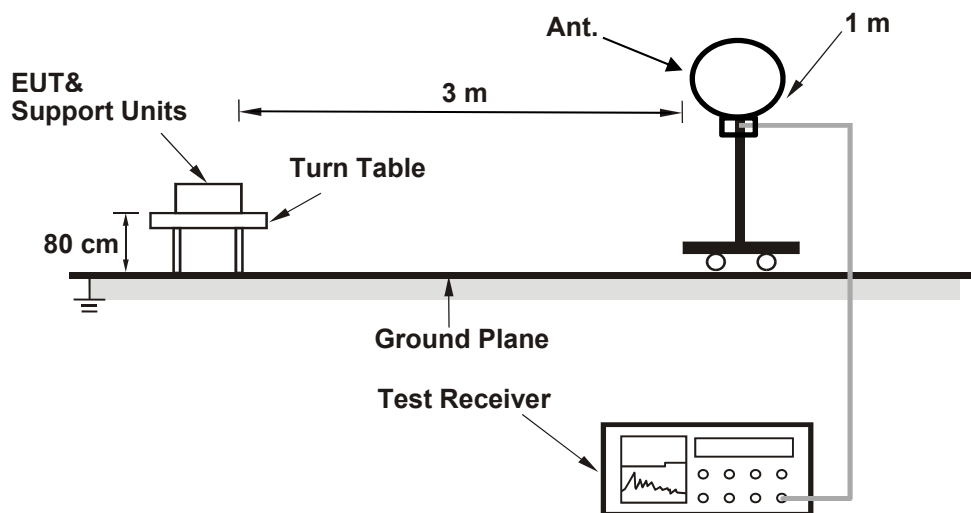
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

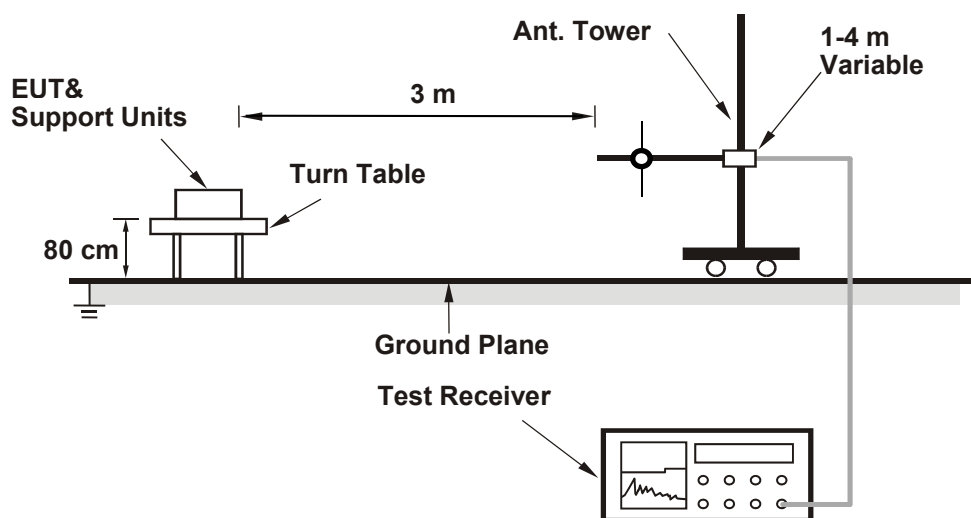
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

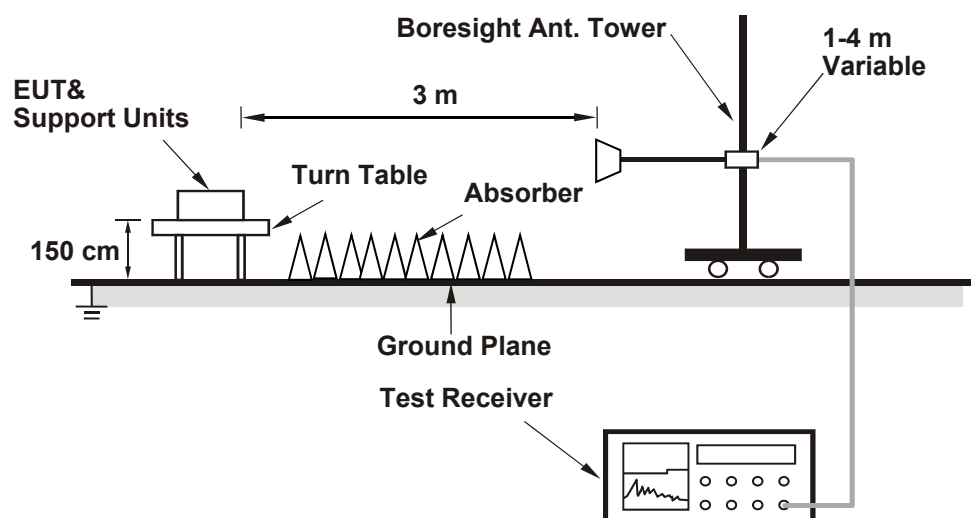
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



For 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:	Kevin Ko
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
52	5260	20.68	21.90	22.46
60	5300	29.04	28.32	28.74
64	5320	27.33	26.84	24.60
100	5500	28.62	26.77	25.06
116	5580	20.95	21.45	21.34
140	5700	28.22	27.55	26.62
144 (U-NII-2C)	5720	15.65	15.62	15.06
144 (U-NII-3)	5720	5.59	5.26	5.20

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.68	24.15 > 24
60	5300	28.32	25.52 > 24
64	5320	24.60	24.9 > 24
100	5500	25.06	24.98 > 24
116	5580	20.95	24.21 > 24
140	5700	26.62	25.25 > 24
144 (U-NII-2C)	5720	15.06	22.77 < 24

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

802.11ax (HE20) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
52	5260	21.87	22.16	23.67
60	5300	24.20	25.46	27.55
64	5320	26.13	25.57	22.46
100	5500	28.44	28.03	28.95
116	5580	22.12	22.08	22.21
140	5700	26.58	26.76	25.12
144 (U-NII-2C)	5720	15.83	15.96	16.21
144 (U-NII-3)	5720	6.01	6.05	5.80

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.87	24.39 > 24
60	5300	24.20	24.83 > 24
64	5320	22.46	24.51 > 24
100	5500	28.03	25.47 > 24
116	5580	22.08	24.43 > 24
140	5700	25.12	25 > 24
144 (U-NII-2C)	5720	15.83	22.99 < 24

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

802.11ax (HE40) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
54	5270	39.64	39.81	44.04
62	5310	51.18	48.64	46.81
102	5510	46.67	44.81	46.54
110	5550	39.72	39.79	39.71
134	5670	53.06	48.53	53.21
142 (U-NII-2C)	5710	34.84	34.89	34.84
142 (U-NII-3)	5710	4.78	4.80	4.82

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	39.64	26.98 > 24
62	5310	46.81	27.7 > 24
102	5510	44.81	27.51 > 24
110	5550	39.71	26.98 > 24
134	5670	48.53	27.86 > 24
142 (U-NII-2C)	5710	34.84	26.42 > 24

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

802.11ax (HE80) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
58	5290	90.06	98.78	86.84
106	5530	81.83	85.86	81.79
122	5610	80.12	80.57	80.27
138 (U-NII-2C)	5690	75.10	75.15	75.02
138 (U-NII-3)	5690	5.07	5.03	5.07

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	86.84	30.38 > 24
106	5530	81.79	30.12 > 24
122	5610	80.12	30.03 > 24
138 (U-NII-2C)	5690	75.02	29.75 > 24

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

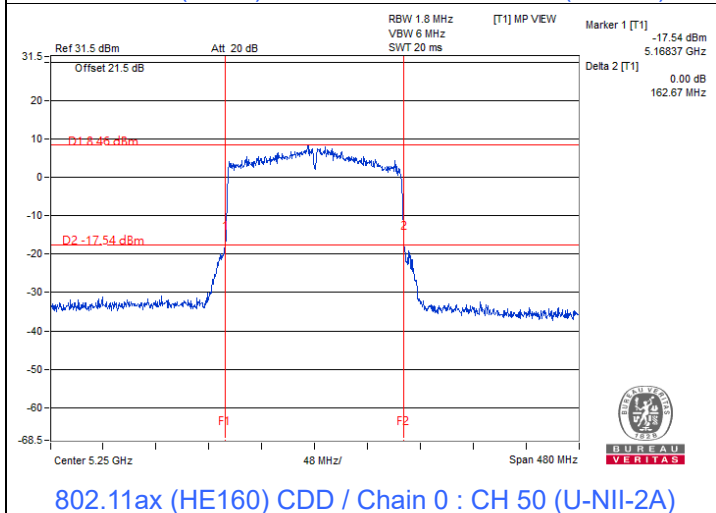
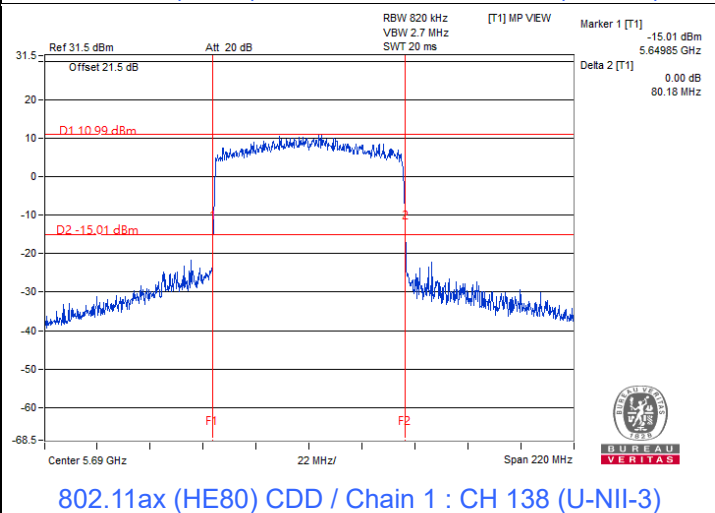
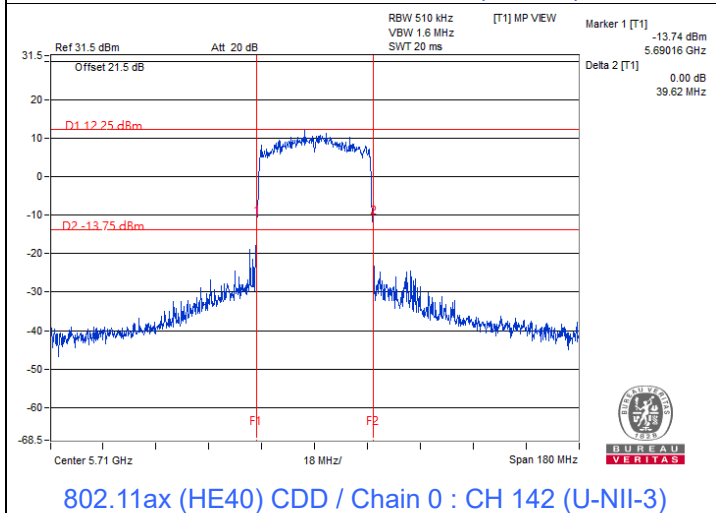
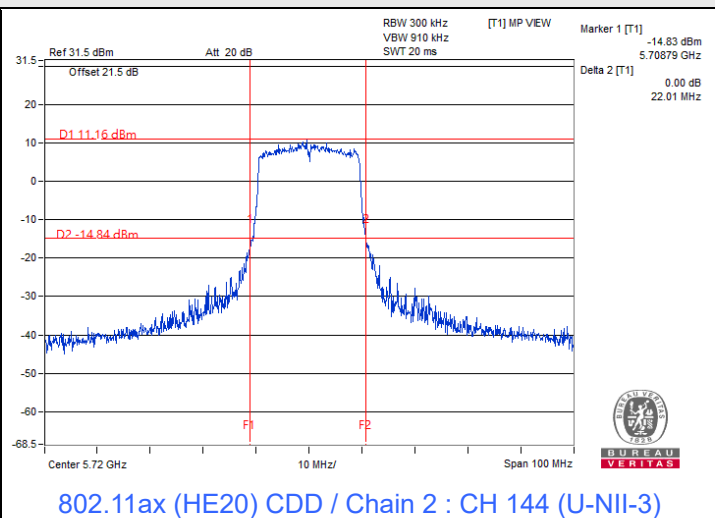
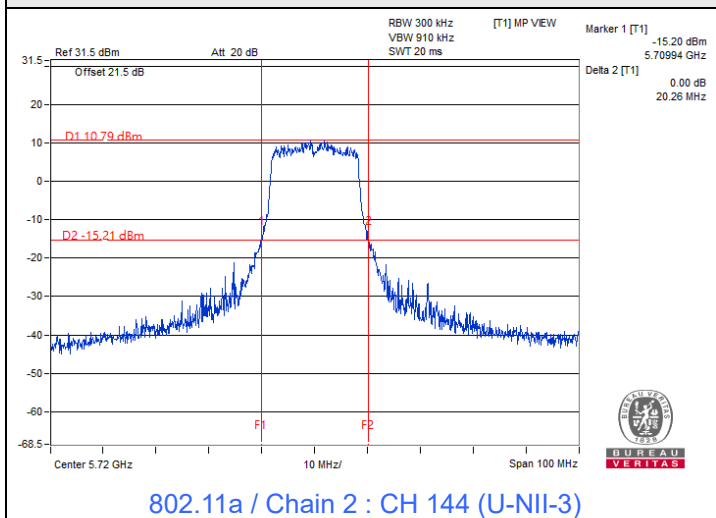
802.11ax (HE160) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
50 (U-NII-1)	5250	81.63	81.56	81.25
50 (U-NII-2A)	5250	81.04	83.62	81.27
114	5570	165.71	165.99	166.48

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	81.04	30.08 > 24
114	5570	165.71	33.19 > 24

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

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
36	5180	21.74	21.69	21.57	440.399	26.44	30	Pass
40	5200	22.75	23.06	22.66	575.168	27.60	30	Pass
48	5240	23.52	23.67	23.49	681.072	28.33	30	Pass
52	5260	18.98	19.24	18.86	239.927	23.80	24	Pass
60	5300	19.19	19.17	19.08	246.498	23.92	24	Pass
64	5320	18.86	18.89	18.67	227.98	23.58	24	Pass
100	5500	18.96	18.86	18.71	229.92	23.62	24	Pass
116	5580	18.90	18.81	18.68	227.448	23.57	24	Pass
140	5700	18.73	18.91	18.64	225.562	23.53	24	Pass
*144 (U-NII-2C)	5720	17.34	17.74	17.35	167.954	22.25	22.77	Pass
*144 (U-NII-3)	5720	10.50	11.01	10.32	34.603	15.39	30	Pass
149	5745	25.66	24.84	24.72	969.402	29.87	30	Pass
157	5785	25.58	24.83	24.64	956.57	29.81	30	Pass
165	5825	24.88	24.92	24.59	905.805	29.57	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
36	5180	21.20	21.46	21.28	406.061	26.09	30	Pass
40	5200	22.30	22.40	22.23	510.714	27.08	30	Pass
48	5240	21.66	21.91	21.53	444.026	26.47	30	Pass
52	5260	18.59	19.26	18.63	229.556	23.61	24	Pass
60	5300	18.68	19.43	18.60	233.934	23.69	24	Pass
64	5320	18.49	19.09	18.61	224.338	23.51	24	Pass
100	5500	18.97	18.76	18.74	228.865	23.60	24	Pass
116	5580	18.88	18.89	18.73	229.359	23.61	24	Pass
140	5700	18.44	18.88	18.42	216.594	23.36	24	Pass
*144 (U-NII-2C)	5720	17.11	17.04	16.93	151.304	21.80	22.99	Pass
*144 (U-NII-3)	5720	11.05	11.33	11.08	39.141	15.93	30	Pass
149	5745	23.85	23.86	23.71	720.845	28.58	30	Pass
157	5785	23.67	23.84	23.57	702.422	28.47	30	Pass
165	5825	23.44	23.70	23.23	665.601	28.23	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
38	5190	17.20	18.22	17.00	168.974	22.28	30	Pass
46	5230	20.50	21.23	20.31	352.34	25.47	30	Pass
54	5270	18.34	19.10	18.22	215.891	23.34	24	Pass
62	5310	16.85	17.63	16.94	155.791	21.93	24	Pass
102	5510	17.61	18.22	17.45	179.641	22.54	24	Pass
110	5550	18.76	19.22	18.52	229.844	23.61	24	Pass
134	5670	18.32	19.10	18.30	216.812	23.36	24	Pass
*142 (U-NII-2C)	5710	17.88	17.64	17.53	176.077	22.46	24	Pass
*142 (U-NII-3)	5710	6.42	6.34	6.17	12.831	11.08	30	Pass
151	5755	22.53	22.66	22.25	531.443	27.25	30	Pass
159	5795	23.54	23.68	23.25	670.638	28.26	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
42	5210	15.66	16.32	15.49	115.067	20.61	30	Pass
58	5290	14.81	15.42	14.86	95.723	19.81	24	Pass
106	5530	15.92	16.35	15.74	119.733	20.78	24	Pass
122	5610	18.33	18.67	17.98	204.503	23.11	24	Pass
*138 (U-NII-2C)	5690	17.83	18.19	18.65	199.873	23.01	24	Pass
*138 (U-NII-3)	5690	2.59	3.57	4.11	6.667	8.24	30	Pass
155	5775	19.14	19.30	18.97	246.035	23.91	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
*50 (U-NII-1)	5250	11.51	11.88	11.15	44.31	16.47	30	Pass
*50 (U-NII-2A)	5250	11.36	12.21	11.55	46.383	16.66	24	Pass
114	5570	14.61	14.93	14.39	87.503	19.42	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 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				
36	5180	21.46	21.67	21.51	428.431	26.32	30	Pass
40	5200	22.52	22.61	22.44	536.426	27.30	30	Pass
48	5240	21.89	22.13	21.76	467.799	26.70	30	Pass
52	5260	18.85	19.46	18.86	241.957	23.84	24	Pass
60	5300	18.93	19.64	18.87	247.298	23.93	24	Pass
64	5320	18.77	19.32	18.84	237.402	23.75	24	Pass
100	5500	19.19	19.02	18.98	241.852	23.84	24	Pass
116	5580	19.12	19.16	19.01	243.688	23.87	24	Pass
140	5700	18.67	19.11	18.65	228.374	23.59	24	Pass
*144 (U-NII-2C)	5720	17.11	17.04	16.93	151.304	21.80	22.99	Pass
*144 (U-NII-3)	5720	11.05	11.33	11.08	39.141	15.93	30	Pass
149	5745	24.13	24.08	23.96	763.566	28.83	30	Pass
157	5785	23.96	24.05	23.84	745.086	28.72	30	Pass
165	5825	23.64	23.93	23.51	702.767	28.47	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
38	5190	17.45	18.42	17.23	177.937	22.50	30	Pass
46	5230	20.70	21.45	20.53	370.106	25.68	30	Pass
54	5270	18.57	19.36	18.46	228.388	23.59	24	Pass
62	5310	17.10	17.86	17.21	164.982	22.17	24	Pass
102	5510	17.85	18.46	17.68	189.713	22.78	24	Pass
110	5550	18.97	19.48	18.75	242.591	23.85	24	Pass
134	5670	18.61	19.34	18.56	230.291	23.62	24	Pass
*142 (U-NII-2C)	5710	17.88	17.64	17.53	176.077	22.46	24	Pass
*142 (U-NII-3)	5710	6.42	6.34	6.17	12.831	11.08	30	Pass
151	5755	22.76	22.90	22.51	562.021	27.50	30	Pass
159	5795	23.78	23.90	23.46	706.072	28.49	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
42	5210	15.92	16.60	15.71	122.032	20.86	30	Pass
58	5290	15.06	15.67	15.13	101.544	20.07	24	Pass
106	5530	16.16	16.63	15.97	126.867	21.03	24	Pass
122	5610	18.55	18.91	18.26	216.406	23.35	24	Pass
*138 (U-NII-2C)	5690	17.83	18.19	18.65	199.873	23.01	24	Pass
*138 (U-NII-3)	5690	2.59	3.57	4.11	6.667	8.24	30	Pass
155	5775	19.43	19.54	19.18	260.444	24.16	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 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.36 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				
*50 (U-NII-1)	5250	11.51	11.88	11.15	44.31	16.47	30	Pass
*50 (U-NII-2A)	5250	11.36	12.21	11.55	46.383	16.66	24	Pass
114	5570	14.85	15.15	14.66	92.525	19.66	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.48 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.36 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				
36	5180	21.20	21.46	21.28	406.061	26.09	30	Pass
40	5200	22.30	22.40	22.23	510.714	27.08	30	Pass
48	5240	21.66	21.91	21.53	444.026	26.47	30	Pass
52	5260	18.59	19.26	18.63	229.556	23.61	24	Pass
60	5300	18.68	19.43	18.60	233.934	23.69	24	Pass
64	5320	18.49	19.09	18.61	224.338	23.51	24	Pass
100	5500	18.97	18.76	18.74	228.865	23.60	24	Pass
116	5580	18.88	18.89	18.73	229.359	23.61	24	Pass
140	5700	18.44	18.88	18.42	216.594	23.36	24	Pass
*144 (U-NII-2C)	5720	17.11	17.04	16.93	151.304	21.80	22.99	Pass
*144 (U-NII-3)	5720	11.05	11.33	11.08	39.141	15.93	30	Pass
149	5745	23.85	23.86	23.71	720.845	28.58	30	Pass
157	5785	23.67	23.84	23.57	702.422	28.47	30	Pass
165	5825	23.44	23.70	23.23	665.601	28.23	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
38	5190	17.20	18.22	17.00	168.974	22.28	30	Pass
46	5230	20.50	21.23	20.31	352.34	25.47	30	Pass
54	5270	18.34	19.10	18.22	215.891	23.34	24	Pass
62	5310	16.85	17.63	16.94	155.791	21.93	24	Pass
102	5510	17.61	18.22	17.45	179.641	22.54	24	Pass
110	5550	18.76	19.22	18.52	229.844	23.61	24	Pass
134	5670	18.32	19.10	18.30	216.812	23.36	24	Pass
*142 (U-NII-2C)	5710	17.88	17.64	17.53	176.077	22.46	24	Pass
*142 (U-NII-3)	5710	6.42	6.34	6.17	12.831	11.08	30	Pass
151	5755	22.53	22.66	22.25	531.443	27.25	30	Pass
159	5795	23.54	23.68	23.25	670.638	28.26	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
42	5210	15.66	16.32	15.49	115.067	20.61	30	Pass
58	5290	14.81	15.42	14.86	95.723	19.81	24	Pass
106	5530	15.92	16.35	15.74	119.733	20.78	24	Pass
122	5610	18.33	18.67	17.98	204.503	23.11	24	Pass
*138 (U-NII-2C)	5690	17.83	18.19	18.65	199.873	23.01	24	Pass
*138 (U-NII-3)	5690	2.59	3.57	4.11	6.667	8.24	30	Pass
155	5775	19.14	19.30	18.97	246.035	23.91	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
*50 (U-NII-1)	5250	11.51	11.88	11.15	44.31	16.47	30	Pass
*50 (U-NII-2A)	5250	11.36	12.21	11.55	46.383	16.66	24	Pass
114	5570	14.61	14.93	14.39	87.503	19.42	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- 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 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
36	5180	21.46	21.67	21.51	428.431	26.32	30	Pass
40	5200	22.52	22.61	22.44	536.426	27.30	30	Pass
48	5240	21.89	22.13	21.76	467.799	26.70	30	Pass
52	5260	18.85	19.46	18.86	241.957	23.84	24	Pass
60	5300	18.93	19.64	18.87	247.298	23.93	24	Pass
64	5320	18.77	19.32	18.84	237.402	23.75	24	Pass
100	5500	19.19	19.02	18.98	241.852	23.84	24	Pass
116	5580	19.12	19.16	19.01	243.688	23.87	24	Pass
140	5700	18.67	19.11	18.65	228.374	23.59	24	Pass
*144 (U-NII-2C)	5720	17.11	17.04	16.93	151.304	21.80	22.99	Pass
*144 (U-NII-3)	5720	11.05	11.33	11.08	39.141	15.93	30	Pass
149	5745	24.13	24.08	23.96	763.566	28.83	30	Pass
157	5785	23.96	24.05	23.84	745.086	28.72	30	Pass
165	5825	23.64	23.93	23.51	702.767	28.47	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
38	5190	17.45	18.42	17.23	177.937	22.50	30	Pass
46	5230	20.70	21.45	20.53	370.106	25.68	30	Pass
54	5270	18.57	19.36	18.46	228.388	23.59	24	Pass
62	5310	17.10	17.86	17.21	164.982	22.17	24	Pass
102	5510	17.85	18.46	17.68	189.713	22.78	24	Pass
110	5550	18.97	19.48	18.75	242.591	23.85	24	Pass
134	5670	18.61	19.34	18.56	230.291	23.62	24	Pass
*142 (U-NII-2C)	5710	17.88	17.64	17.53	176.077	22.46	24	Pass
*142 (U-NII-3)	5710	6.42	6.34	6.17	12.831	11.08	30	Pass
151	5755	22.76	22.90	22.51	562.021	27.50	30	Pass
159	5795	23.78	23.90	23.46	706.072	28.49	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
42	5210	15.92	16.60	15.71	122.032	20.86	30	Pass
58	5290	15.06	15.67	15.13	101.544	20.07	24	Pass
106	5530	16.16	16.63	15.97	126.867	21.03	24	Pass
122	5610	18.55	18.91	18.26	216.406	23.35	24	Pass
*138 (U-NII-2C)	5690	17.83	18.19	18.65	199.873	23.01	24	Pass
*138 (U-NII-3)	5690	2.59	3.57	4.11	6.667	8.24	30	Pass
155	5775	19.43	19.54	19.18	260.444	24.16	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.25 dBi < 6 dBi, so the output power limit shall not be reduced.

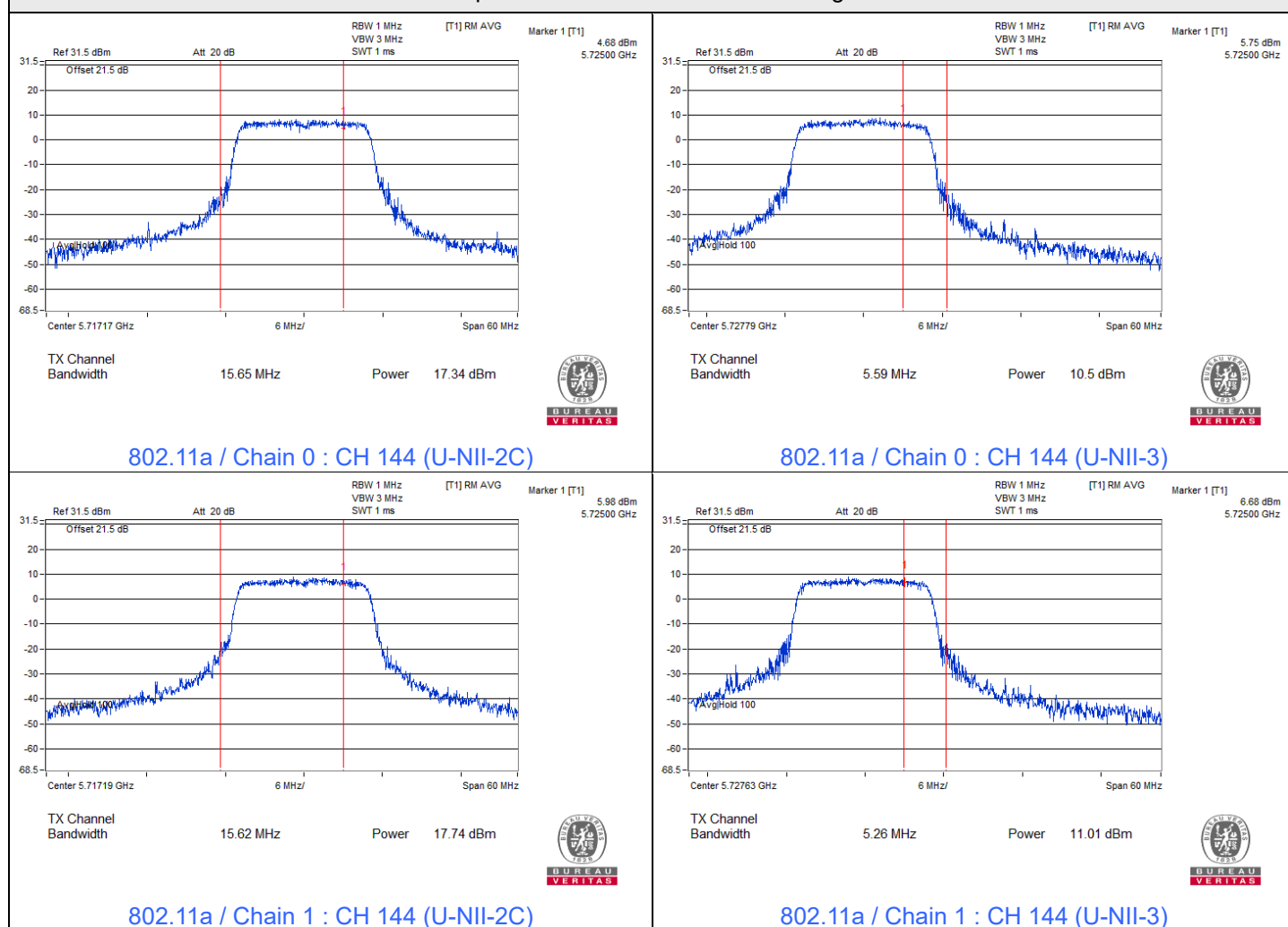
802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
*50 (U-NII-1)	5250	11.51	11.88	11.15	44.31	16.47	30	Pass
*50 (U-NII-2A)	5250	11.36	12.21	11.55	46.383	16.66	24	Pass
114	5570	14.85	15.15	14.66	92.525	19.66	24	Pass

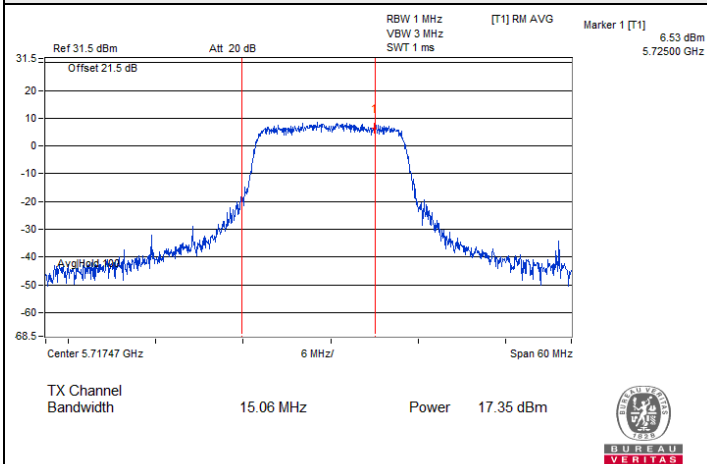
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- 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 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the output power limit shall not be reduced.

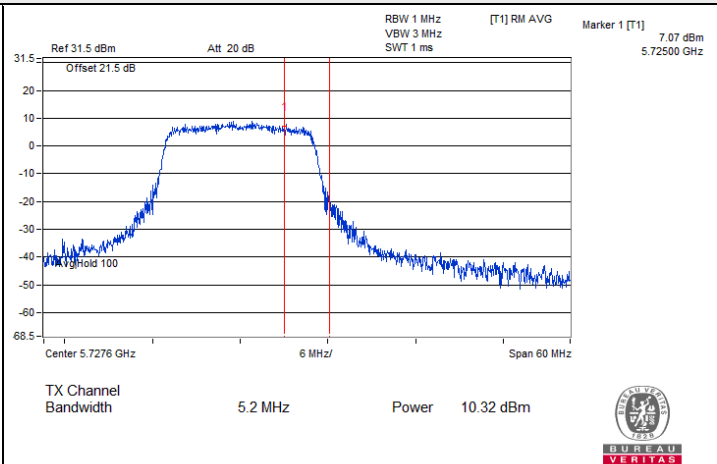
Spectrum Plot for channel straddling



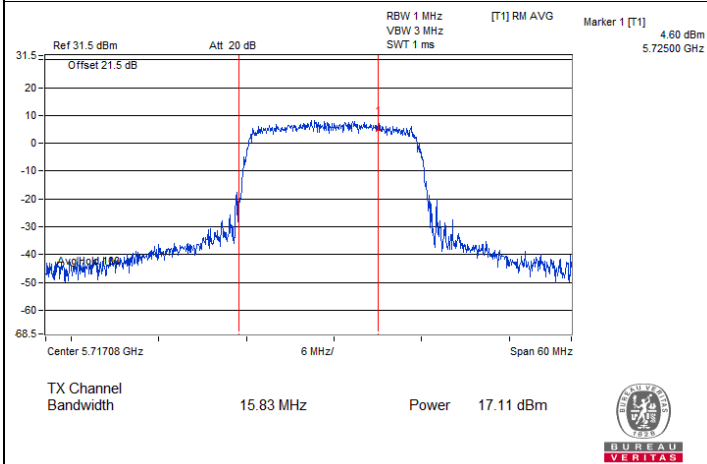
Spectrum Plot for channel straddling



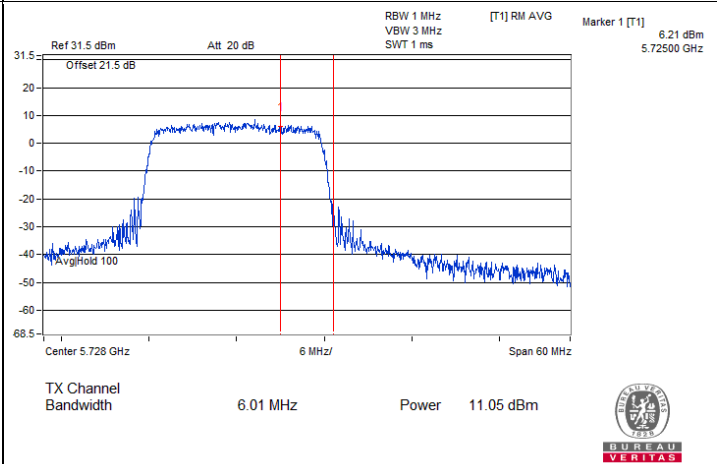
802.11a / Chain 2 : CH 144 (U-NII-2C)



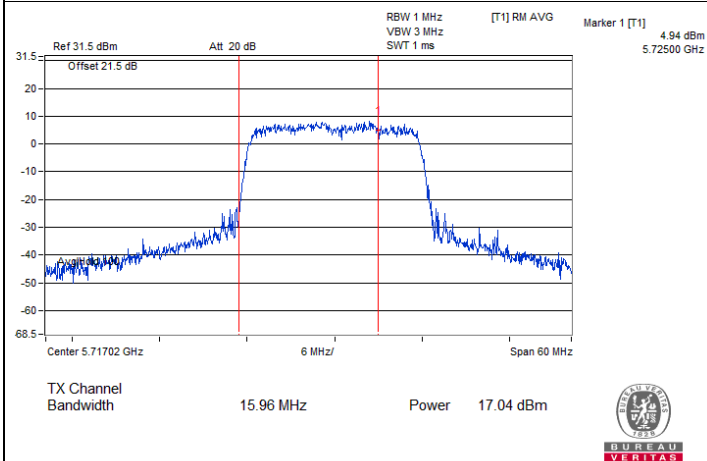
802.11a / Chain 2 : CH 144 (U-NII-3)



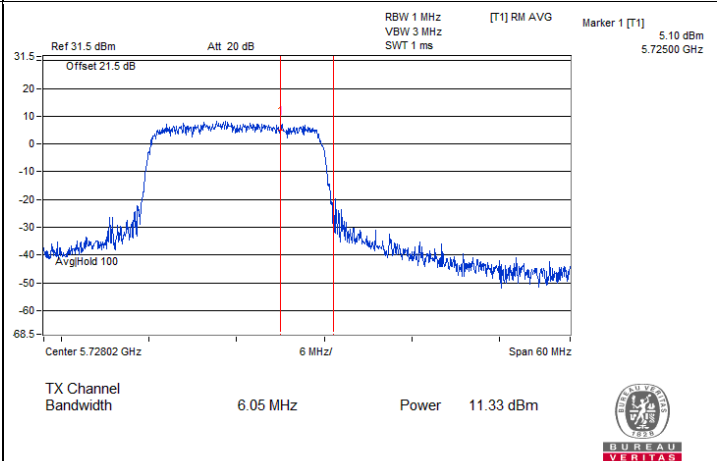
802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-3)

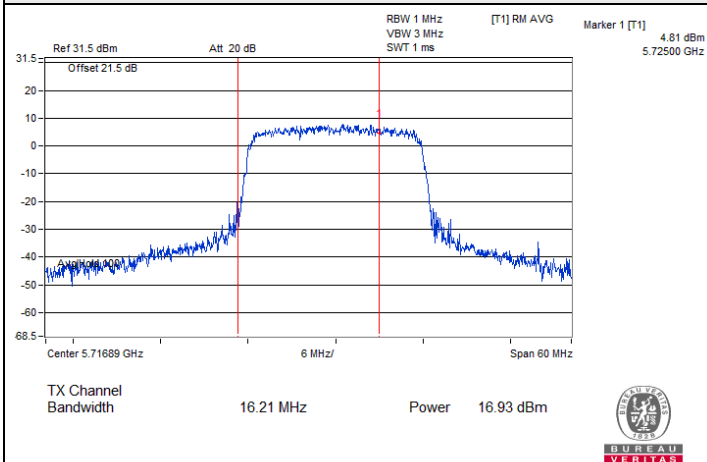


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-2C)

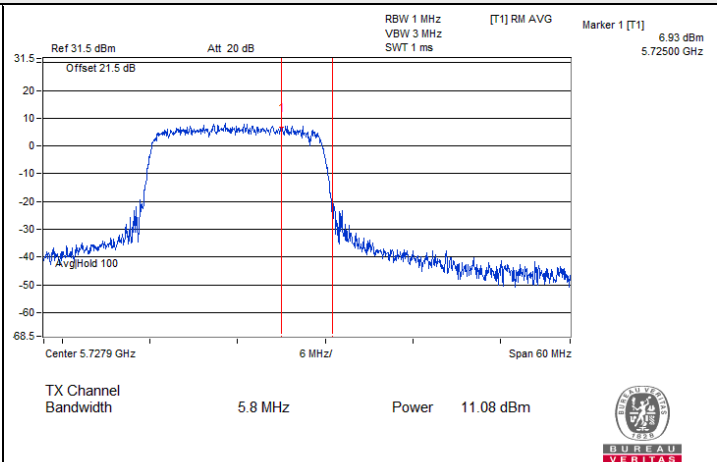


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-3)

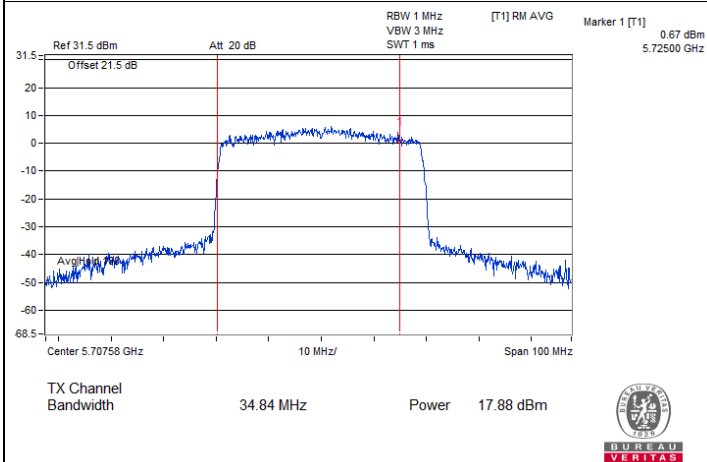
Spectrum Plot for channel straddling



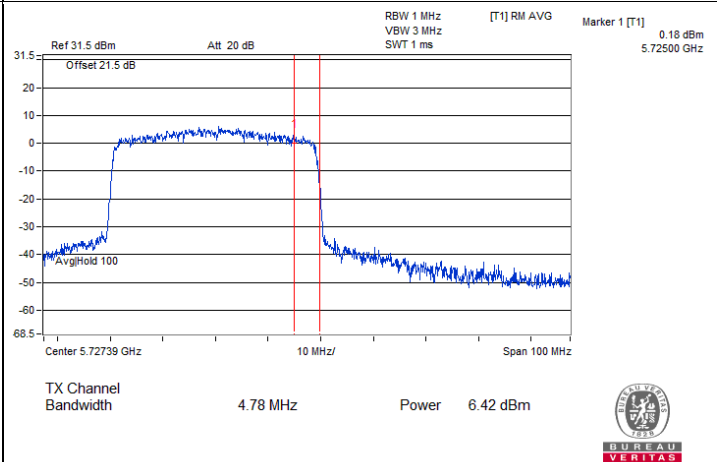
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



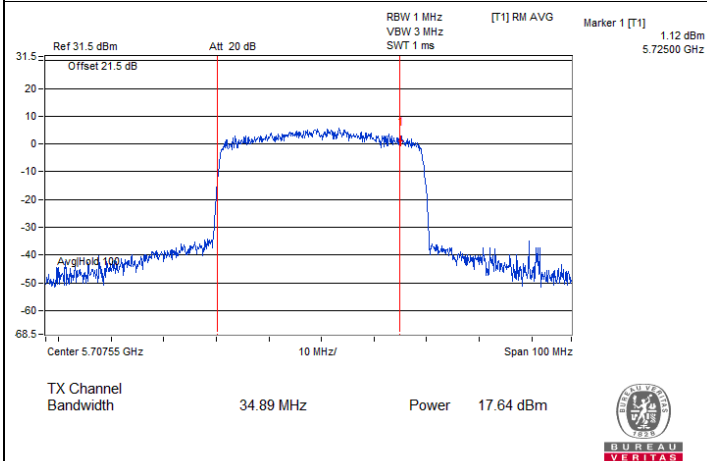
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-3)



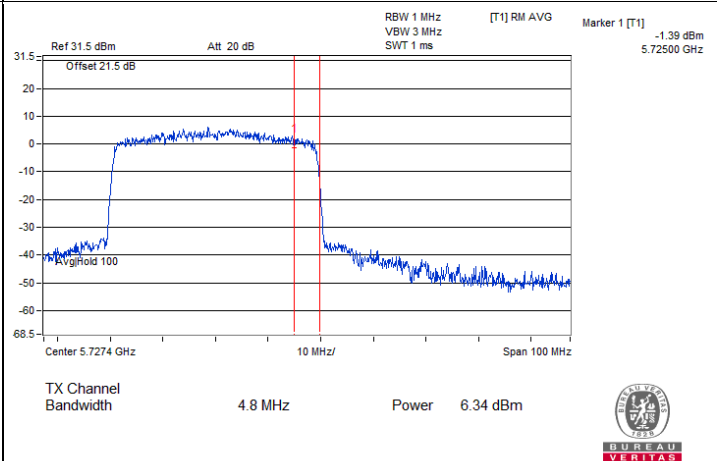
802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-2C)



802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-3)

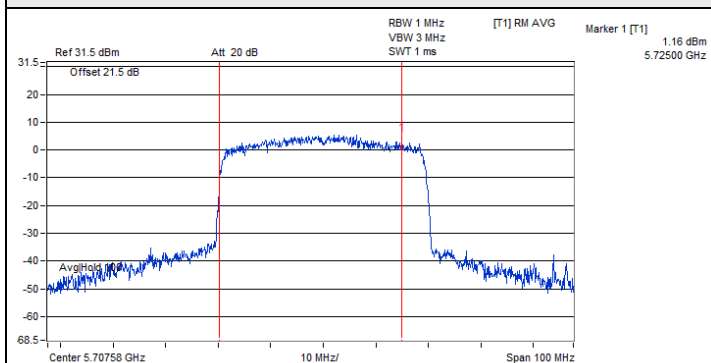


802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-2C)

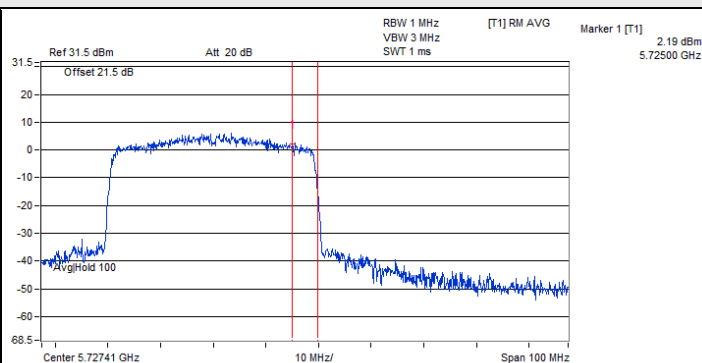


802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-3)

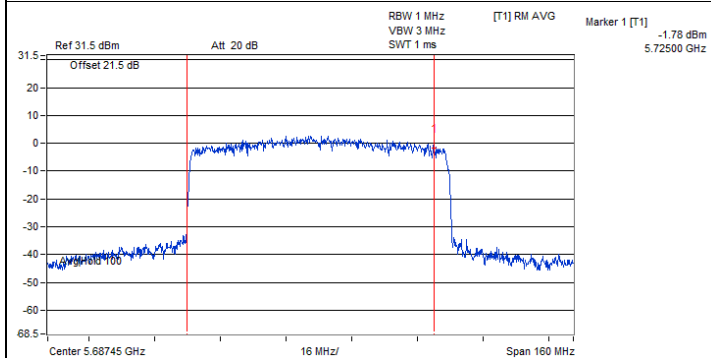
Spectrum Plot for channel straddling



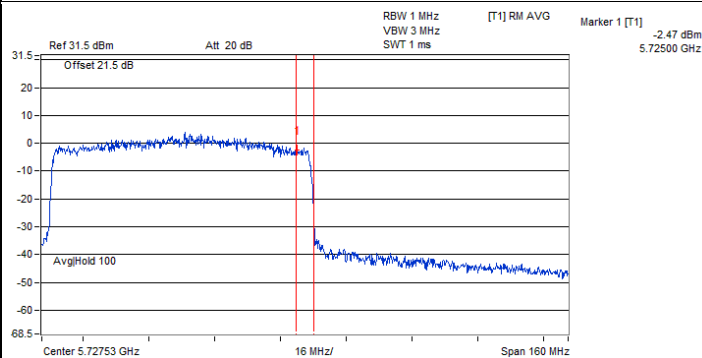
802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-2C)



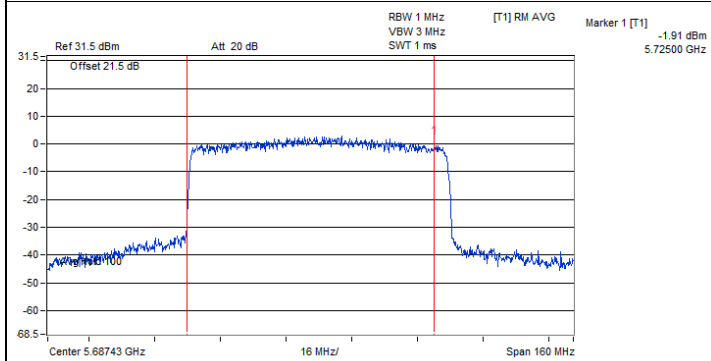
802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-3)



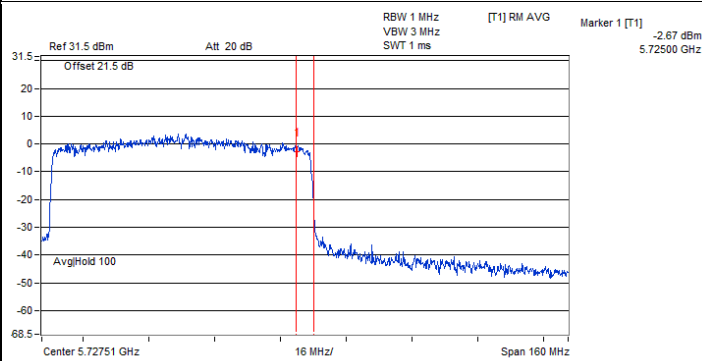
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-3)

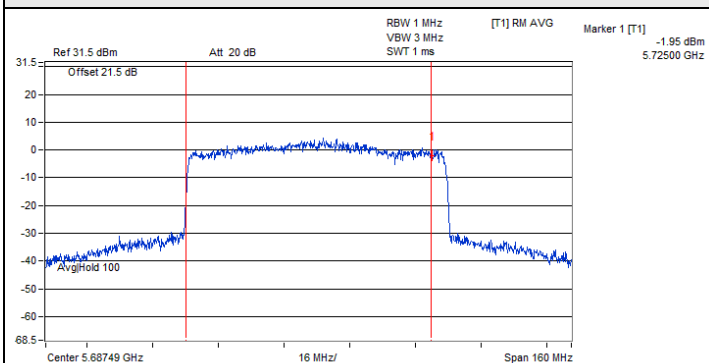


802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-2C)

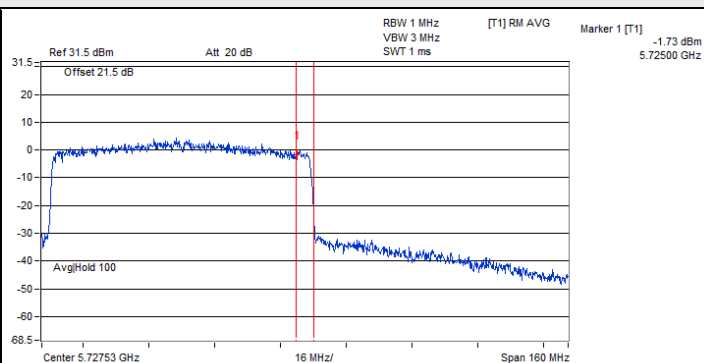


802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-3)

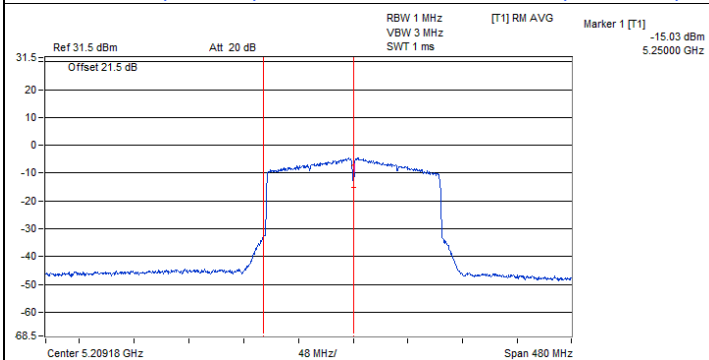
Spectrum Plot for channel straddling



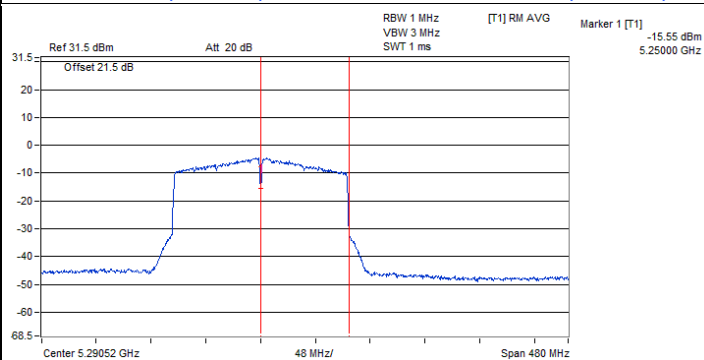
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-2C)



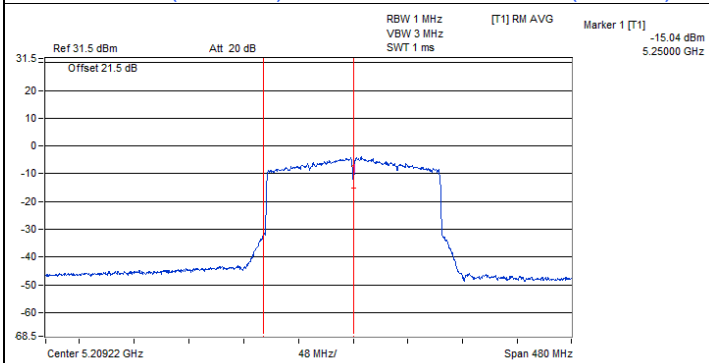
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-3)



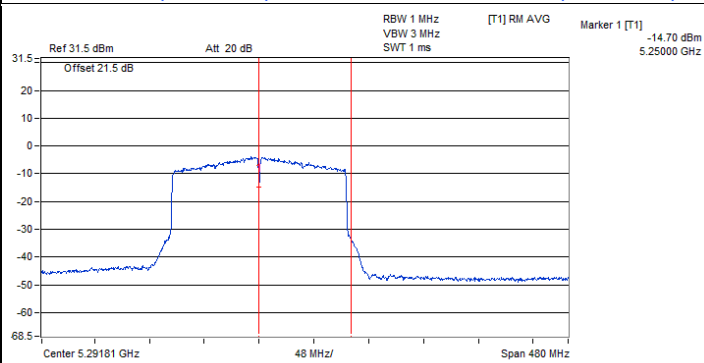
802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-1)



802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-2A)

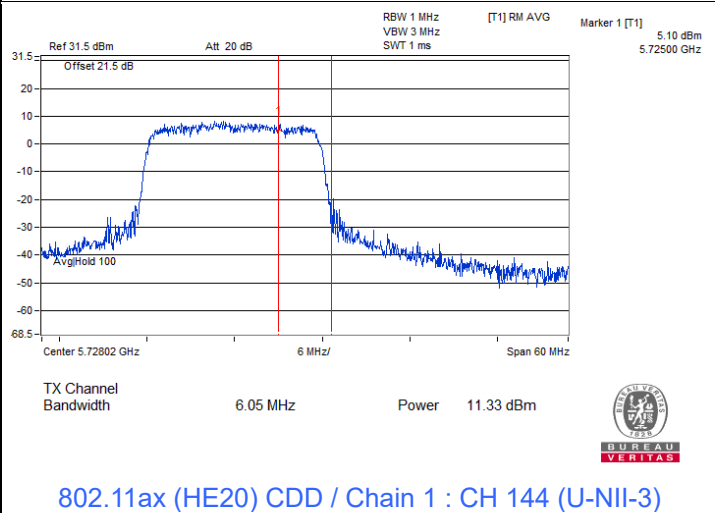
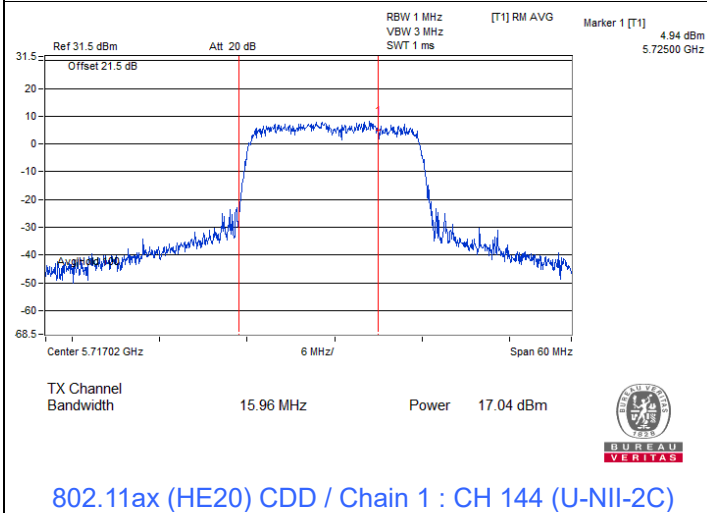
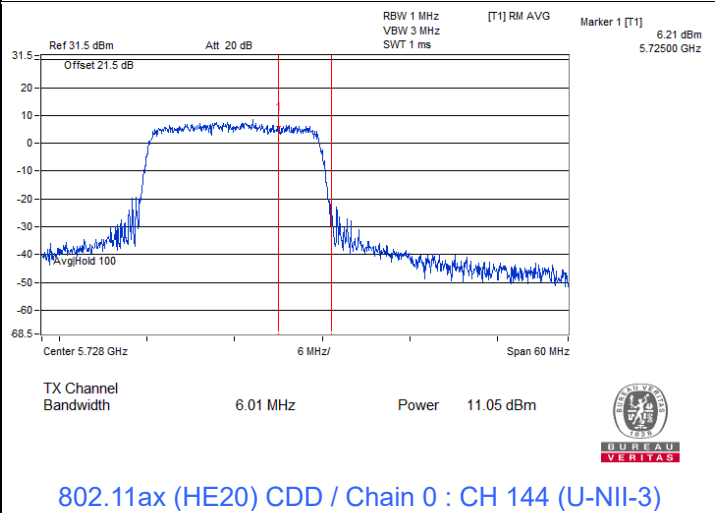
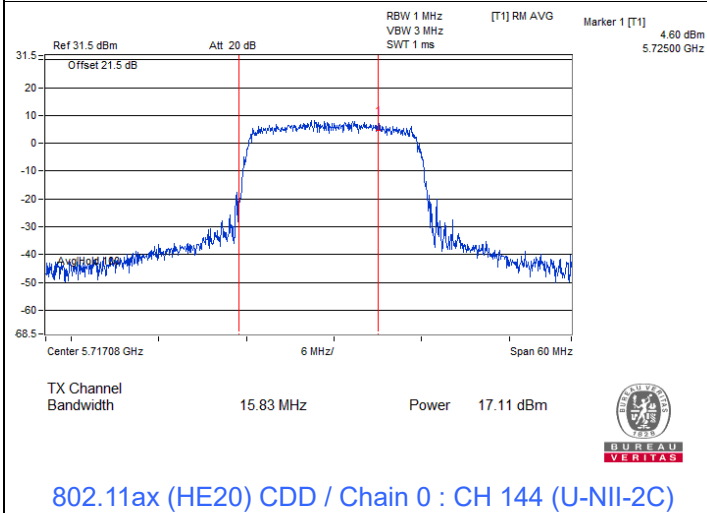
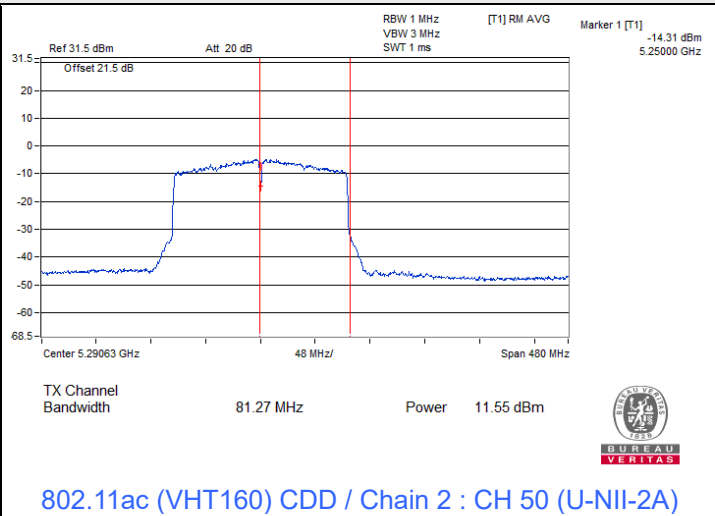
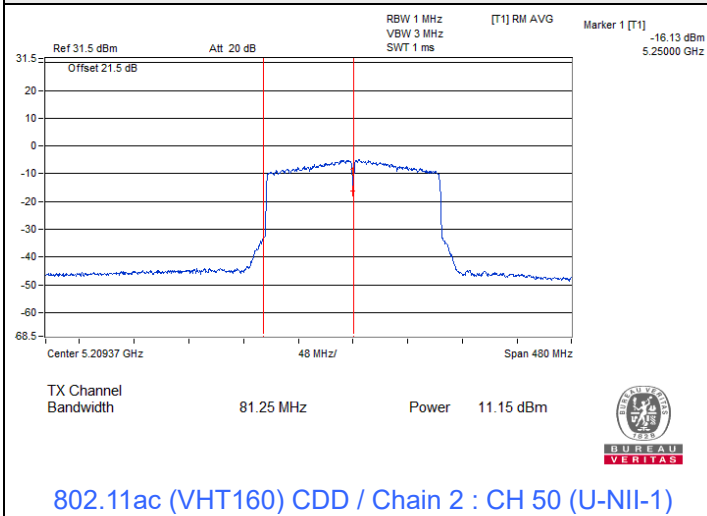


802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-1)

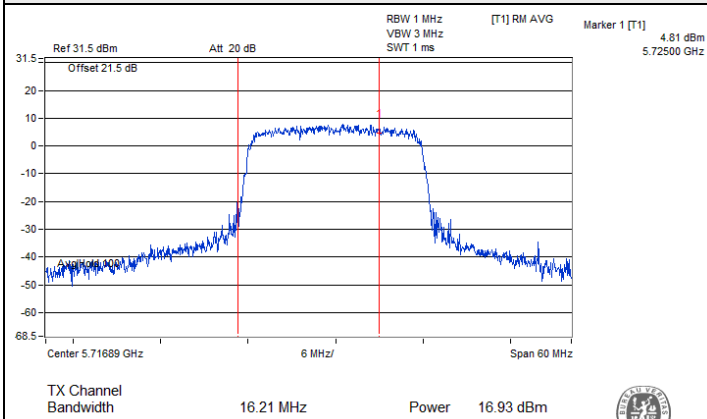


802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-2A)

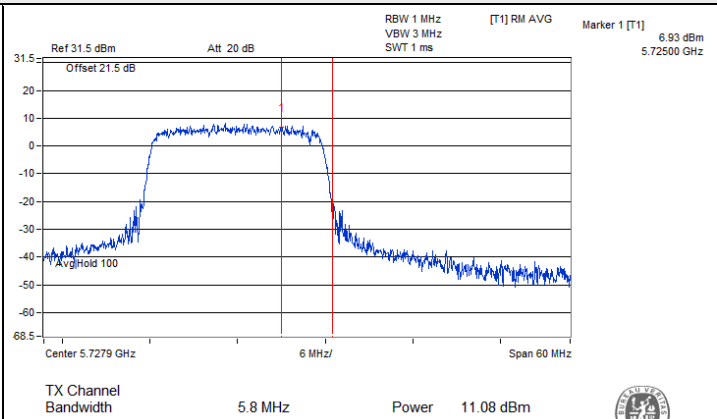
Spectrum Plot for channel straddling



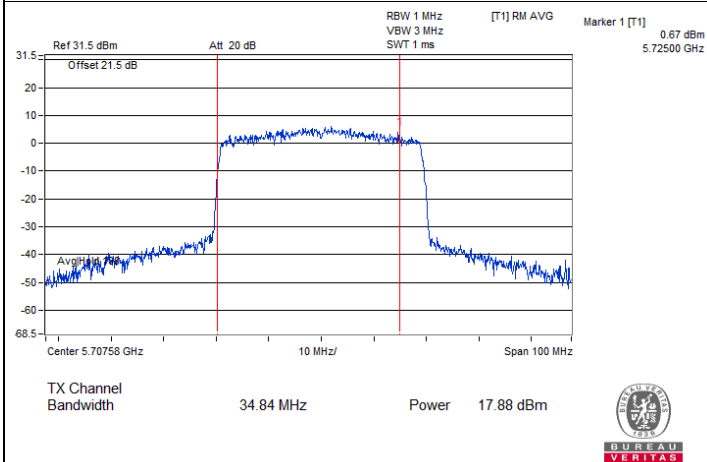
Spectrum Plot for channel straddling



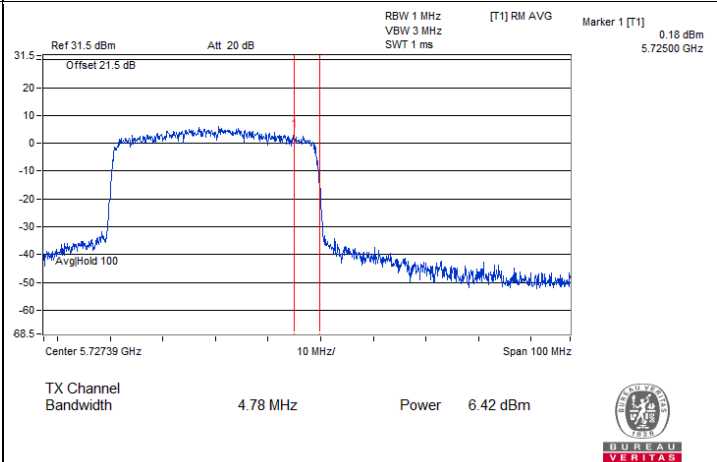
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-2C)



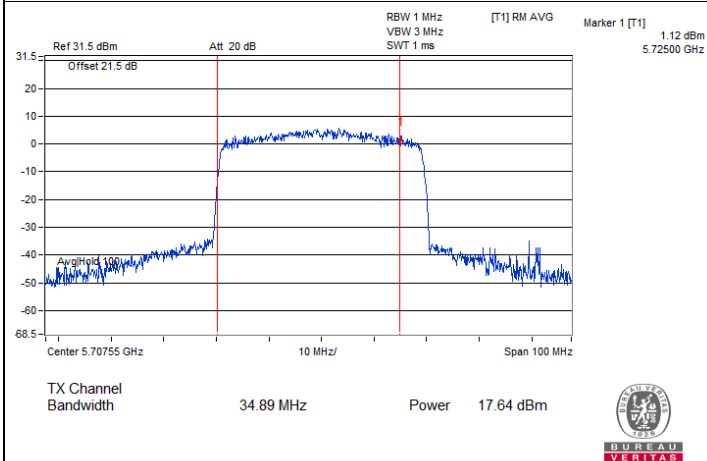
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-3)



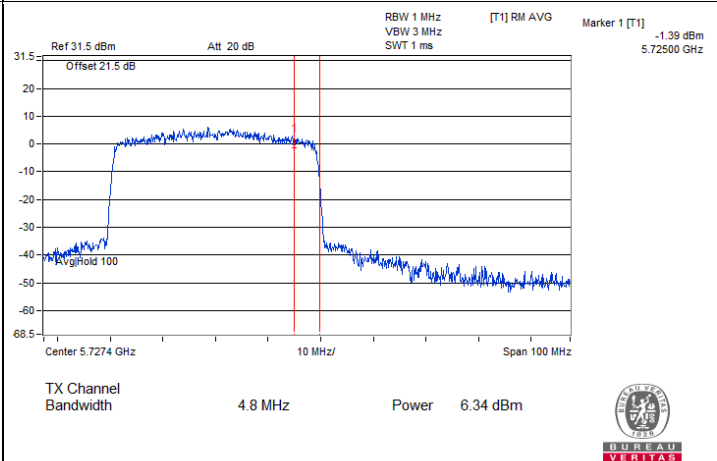
802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-2C)



802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-3)

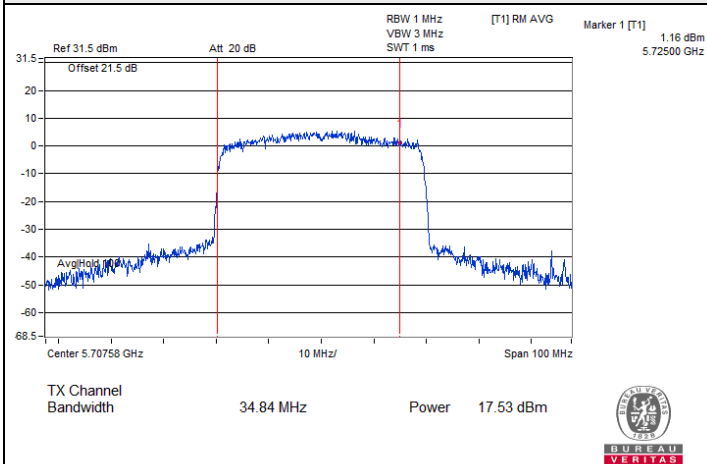


802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-2C)

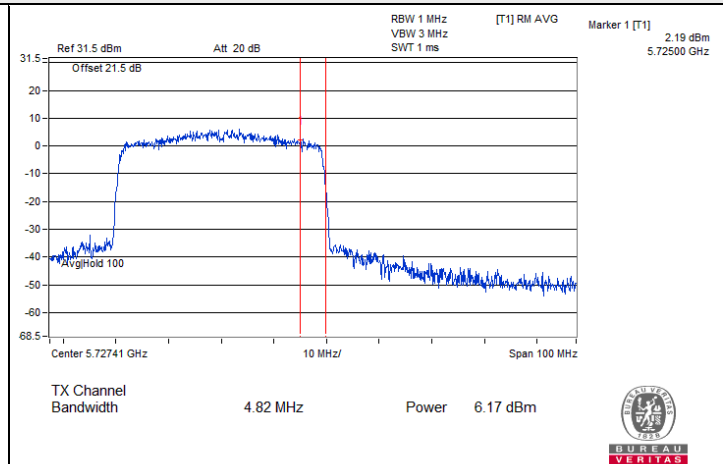


802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-3)

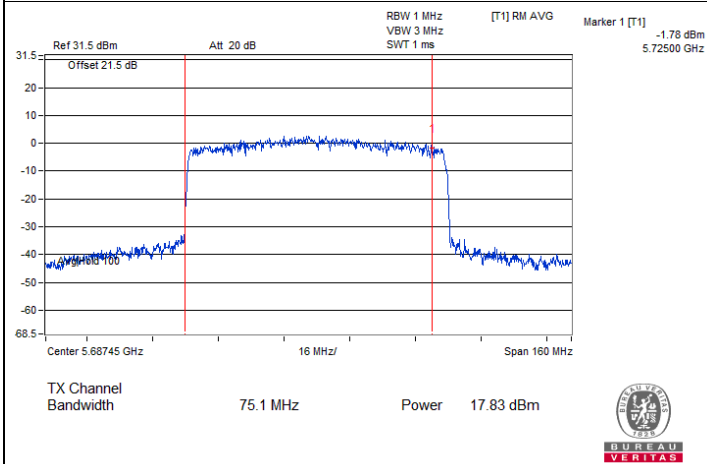
Spectrum Plot for channel straddling



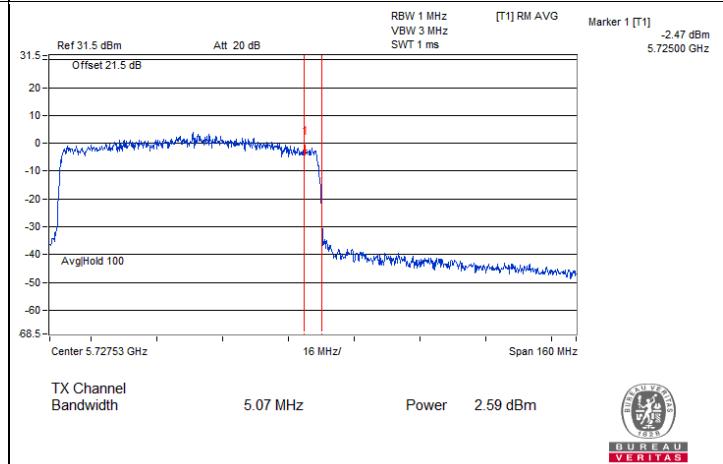
802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-2C)



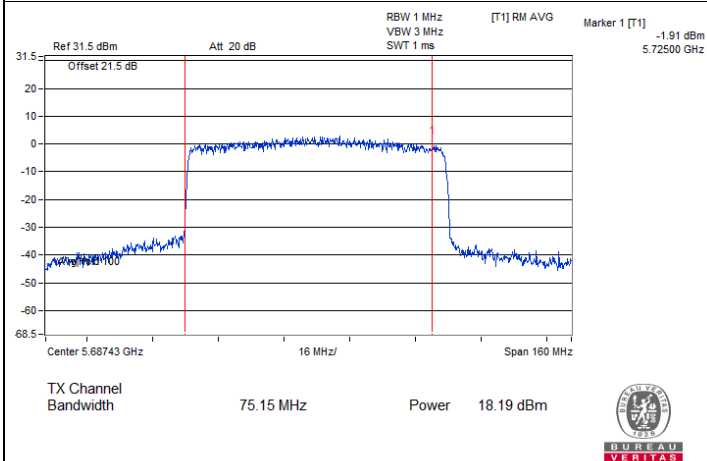
802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-3)



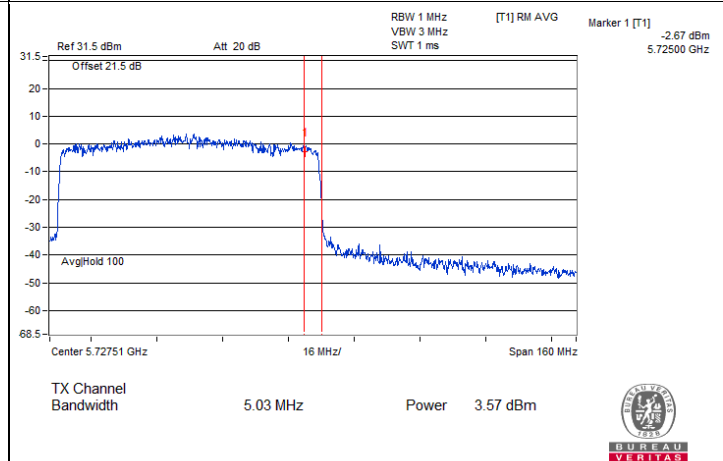
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-2C)



802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-3)

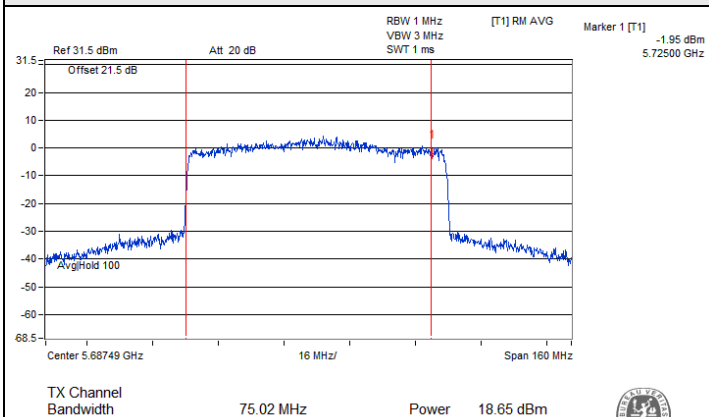


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-2C)

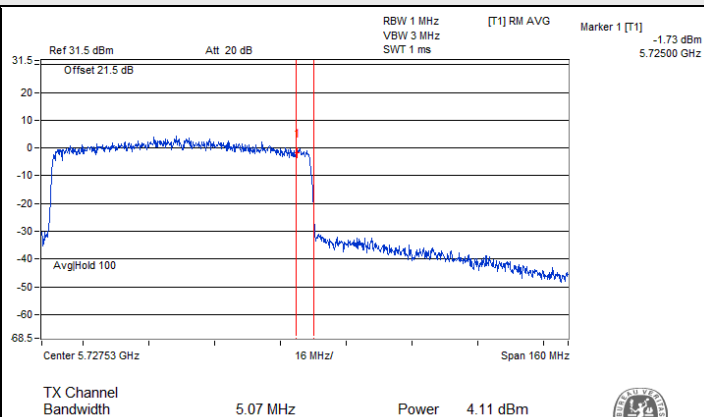


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-3)

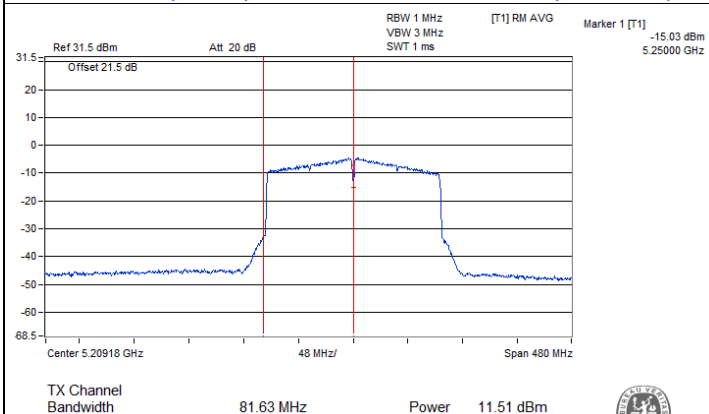
Spectrum Plot for channel straddling



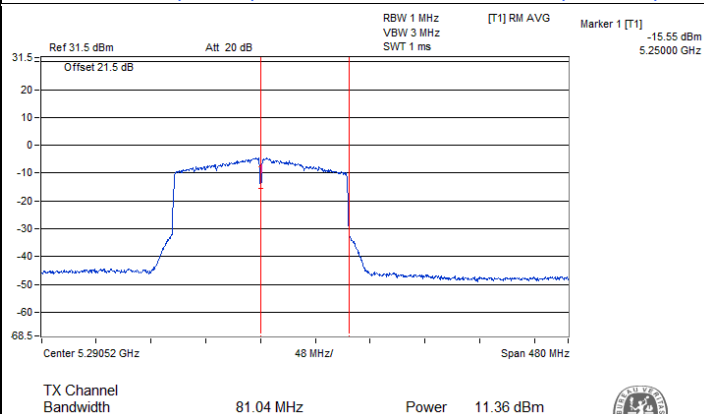
802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-2C)



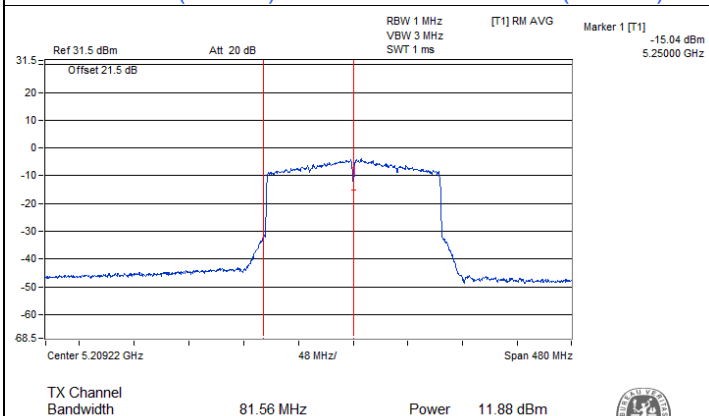
802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-3)



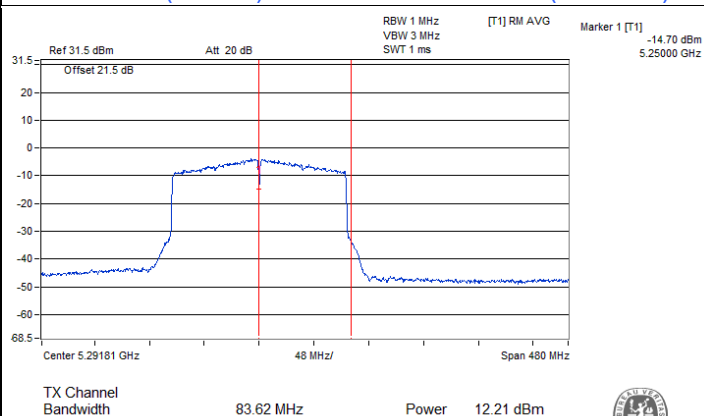
802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-1)



802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-2A)

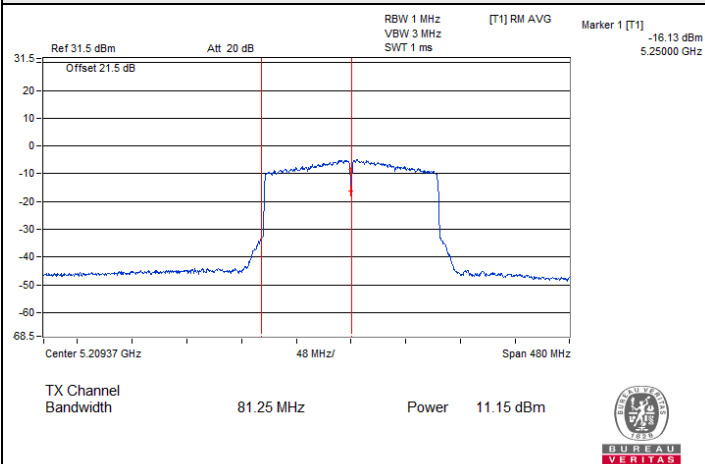


802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-1)

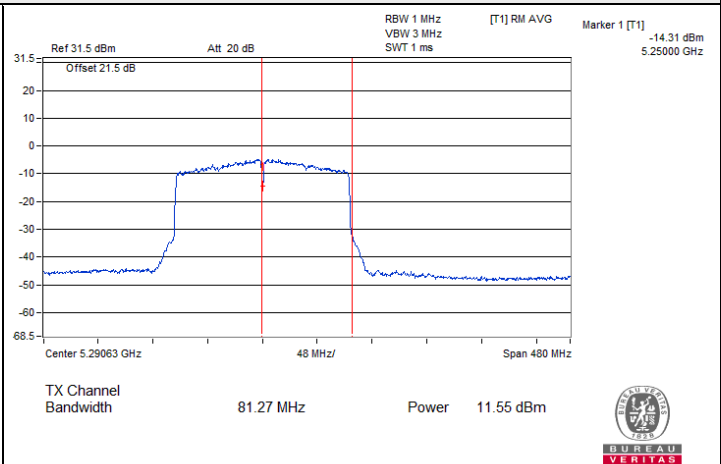


802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



802.11ax (HE160) CDD / Chain 2 : CH 50 (U-NII-1)



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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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			
36	5180	9.79	10.17	10.34	14.88	17	Pass
40	5200	10.84	10.71	11.14	15.67	17	Pass
48	5240	11.08	10.99	11.22	15.87	17	Pass
52	5260	5.93	6.60	5.71	10.87	11	Pass
60	5300	6.09	6.27	6.15	10.94	11	Pass
64	5320	6.08	6.32	5.47	10.74	11	Pass
100	5500	5.84	6.14	5.94	10.75	11	Pass
116	5580	6.19	6.20	6.26	10.99	11	Pass
140	5700	5.68	6.43	6.37	10.94	11	Pass
144 (U-NII-2C)	5720	6.13	6.33	6.16	10.98	11	Pass

Notes:

1. 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.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
36	5180	8.44	8.35	8.71	13.27	17	Pass
40	5200	9.51	9.24	9.69	14.26	17	Pass
48	5240	8.88	8.55	9.05	13.60	17	Pass
52	5260	5.73	6.34	5.82	10.74	11	Pass
60	5300	5.61	6.43	5.62	10.68	11	Pass
64	5320	5.50	6.24	6.00	10.70	11	Pass
100	5500	5.97	6.18	5.93	10.80	11	Pass
116	5580	5.86	6.15	5.80	10.71	11	Pass
140	5700	6.24	5.52	6.67	10.94	11	Pass
144 (U-NII-2C)	5720	5.13	5.78	5.09	10.12	11	Pass

Notes:

1. 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.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
38	5190	3.69	3.36	4.07	8.49	17	Pass
46	5230	6.78	6.51	7.16	11.60	17	Pass
54	5270	5.00	4.75	5.90	10.02	11	Pass
62	5310	3.41	3.14	4.00	8.30	11	Pass
102	5510	3.68	3.40	4.06	8.49	11	Pass
110	5550	4.77	4.57	5.14	9.60	11	Pass
134	5670	4.57	4.36	5.12	9.47	11	Pass
142 (U-NII-2C)	5710	5.12	4.80	5.69	9.99	11	Pass

Notes:

1. 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.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
42	5210	-1.47	-1.86	-1.09	3.31	17	Pass
58	5290	-2.30	-2.62	-1.46	2.67	11	Pass
106	5530	-1.41	-1.73	-1.10	3.37	11	Pass
122	5610	0.84	0.73	1.04	5.64	11	Pass
138 (U-NII-2C)	5690	1.24	1.24	2.01	6.28	11	Pass

Notes:

1. 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.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)			Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2				
50 (U-NII-1)	5250	-6.04	-5.92	-5.67	0.17	-0.93	17	Pass
50 (U-NII-2A)	5250	-5.92	-5.97	-5.53	0.17	-0.86	11	Pass
114	5570	-3.78	-3.76	-3.59	0.17	1.23	11	Pass

Notes:

1. 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.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.9 dBi < 6 dBi, so the power density limit shall not be reduced.

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				
144 (U-NII-3)	5720	0.16	0.30	-0.34	4.82	7.04	30	Pass
149	5745	7.26	7.26	6.99	11.94	14.16	30	Pass
157	5785	7.33	7.62	7.20	12.16	14.38	30	Pass
165	5825	7.64	7.18	7.43	12.19	14.41	30	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 5.25 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) CDD

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				
144 (U-NII-3)	5720	-0.54	-0.79	-0.79	4.07	6.29	30	Pass
149	5745	5.41	5.37	5.67	10.26	12.48	30	Pass
157	5785	5.50	5.71	5.94	10.49	12.71	30	Pass
165	5825	5.90	5.65	6.19	10.69	12.91	30	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 5.25 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40) CDD

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				
142 (U-NII-3)	5710	-3.10	-4.07	-2.81	1.48	3.70	30	Pass
151	5755	2.57	2.56	3.01	7.49	9.71	30	Pass
159	5795	3.48	3.57	4.07	8.49	10.71	30	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 5.25 dBi < 6 dBi, so the power density limit shall not be reduced.

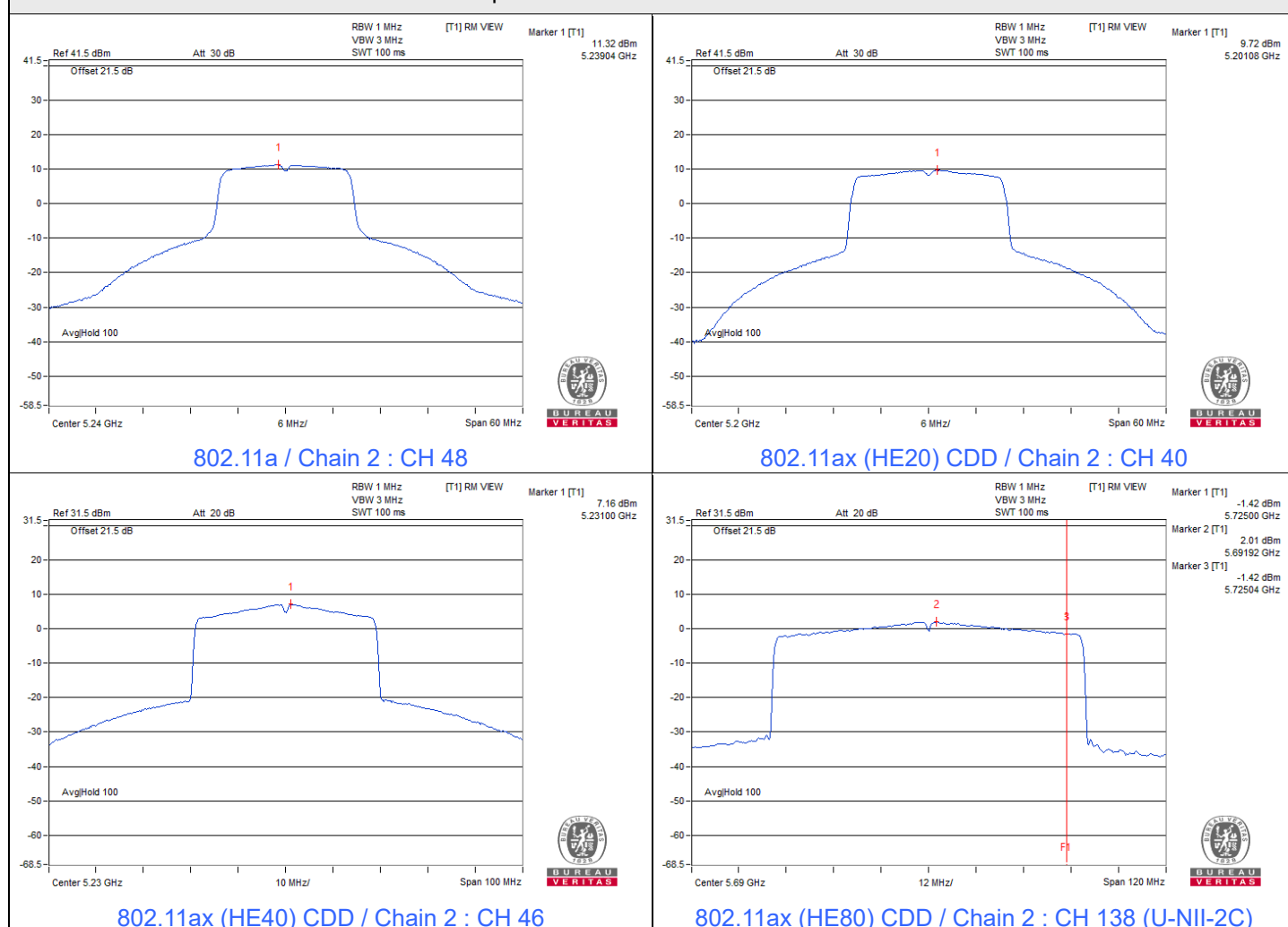
802.11ax (HE80) CDD

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				
138 (U-NII-3)	5690	-6.91	-7.61	-6.67	-2.27	-0.05	30	Pass
155	5775	-3.47	-3.39	-2.99	1.49	3.71	30	Pass

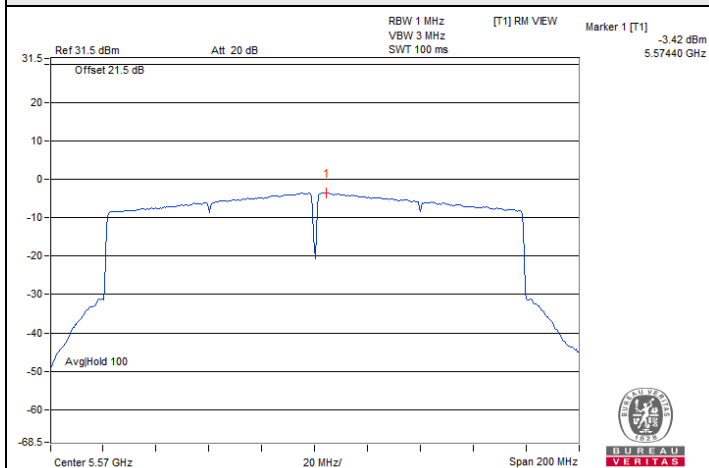
Notes:

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 5.25 dBi < 6 dBi, so the power density limit shall not be reduced.

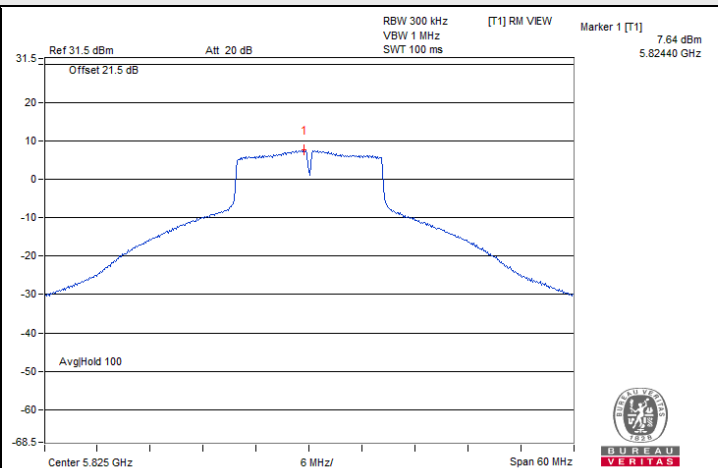
Spectrum Plot of Maximum Value



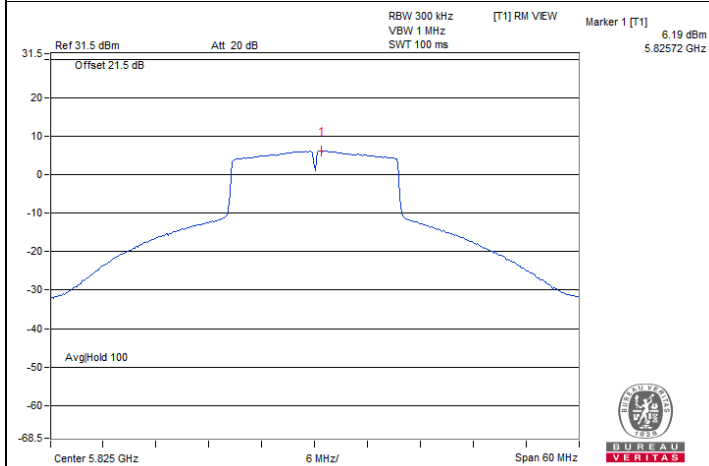
Spectrum Plot of Maximum Value



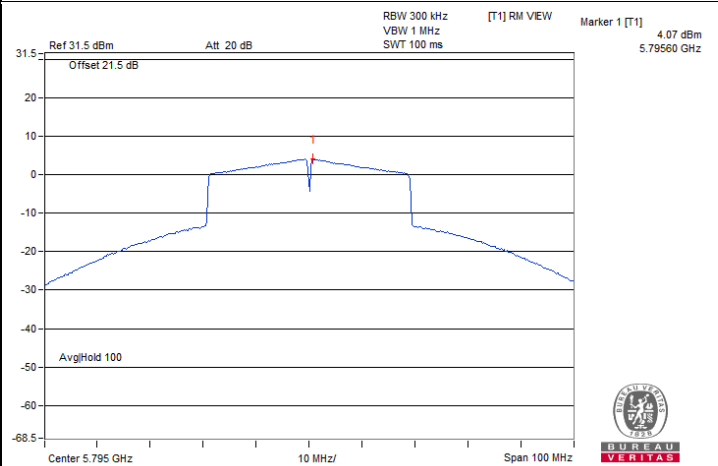
802.11ax (HE160) CDD / Chain 2 : CH 114



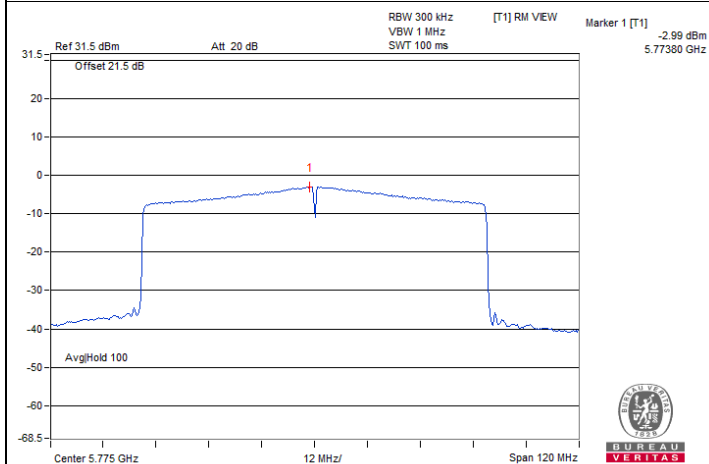
802.11a / Chain 0 : CH 165



802.11ax (HE20) CDD / Chain 2 : CH 165



802.11ax (HE40) CDD / Chain 2 : CH 159



802.11ax (HE80) CDD / Chain 2 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
144 (U-NII-3)	5720	3.13	3.12	3.14	0.5	Pass
149	5745	16.34	16.29	16.31	0.5	Pass
157	5785	16.31	16.32	16.31	0.5	Pass
165	5825	16.31	16.31	16.28	0.5	Pass

802.11ax (HE20) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
144 (U-NII-3)	5720	4.39	4.47	4.48	0.5	Pass
149	5745	18.61	18.64	18.76	0.5	Pass
157	5785	18.71	18.33	17.87	0.5	Pass
165	5825	18.65	18.73	18.65	0.5	Pass

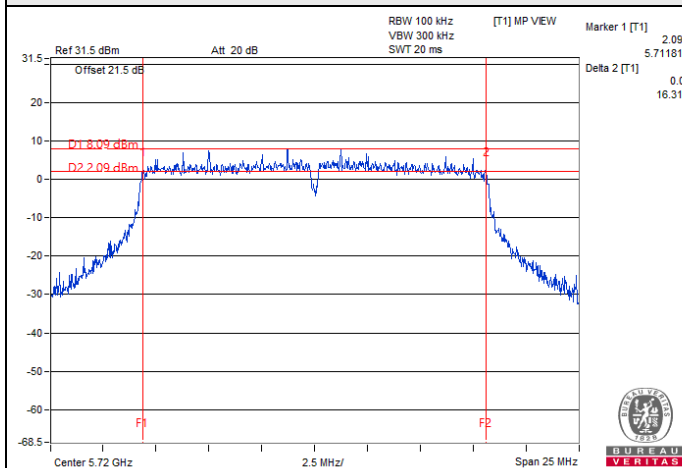
802.11ax (HE40) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
142 (U-NII-3)	5710	3.50	2.52	2.48	0.5	Pass
151	5755	34.86	37.75	33.75	0.5	Pass
159	5795	33.72	33.51	37.66	0.5	Pass

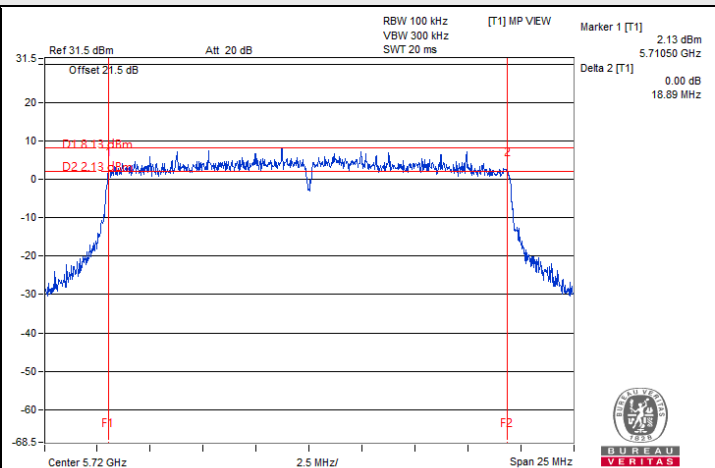
802.11ax (HE80) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
138 (U-NII-3)	5690	1.35	2.62	2.83	0.5	Pass
155	5775	41.50	75.46	62.67	0.5	Pass

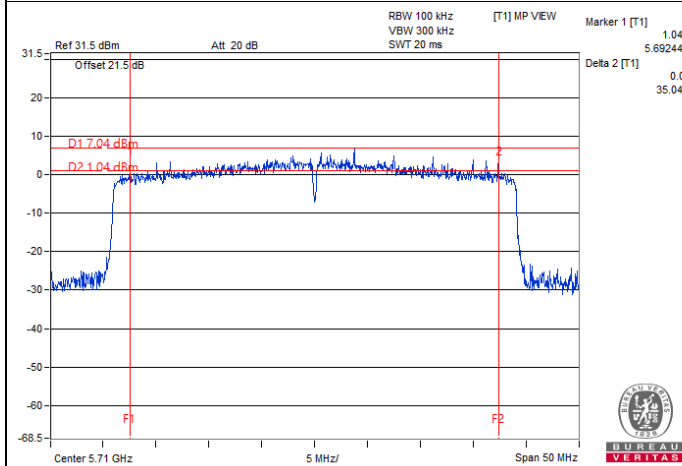
Spectrum Plot of Minimum Value



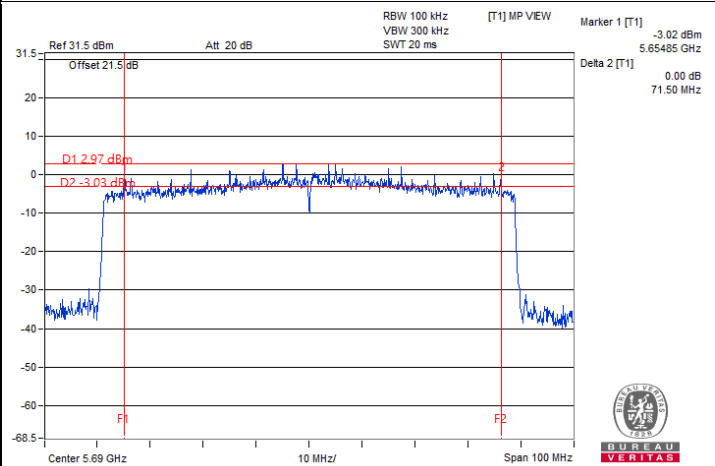
802.11a / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-3)



802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-3)

Note: 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:	Kevin Ko
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	16.92	16.74	17.04
40	5200	16.98	17.10	17.76
48	5240	17.76	17.40	18.42
52	5260	16.68	16.62	16.62
60	5300	16.68	16.86	16.80
64	5320	16.62	16.74	16.74
100	5500	16.74	16.74	16.74
116	5580	16.62	16.62	16.50
140	5700	16.74	16.62	16.74
144 (U-NII-2C)	5720	13.34	13.28	13.34
144 (U-NII-3)	5720	3.16	3.16	3.22
149	5745	27.42	28.68	25.62
157	5785	28.50	29.58	26.88
165	5825	28.26	26.46	26.46

802.11ax (HE20) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	19.02	19.02	19.02
40	5200	19.02	19.08	19.14
48	5240	19.02	18.96	18.96
52	5260	19.02	18.96	19.02
60	5300	19.08	19.02	19.02
64	5320	18.96	19.02	19.02
100	5500	18.96	19.02	19.02
116	5580	18.90	18.90	18.90
140	5700	18.96	19.02	19.02
144 (U-NII-2C)	5720	14.48	14.54	14.48
144 (U-NII-3)	5720	4.42	4.48	4.42
149	5745	20.82	21.06	23.52
157	5785	20.46	20.88	24.36
165	5825	21.36	20.22	23.94

802.11ax (HE40) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	37.80	37.80	37.80
46	5230	37.80	37.80	38.04
54	5270	37.56	37.80	37.80
62	5310	38.04	37.92	37.80
102	5510	37.92	38.04	37.92
110	5550	37.92	37.68	37.80
134	5670	37.92	37.92	37.80
142 (U-NII-2C)	5710	33.84	33.96	33.96
142 (U-NII-3)	5710	3.72	3.84	3.72
151	5755	38.28	38.40	39.48
159	5795	42.60	45.48	54.24

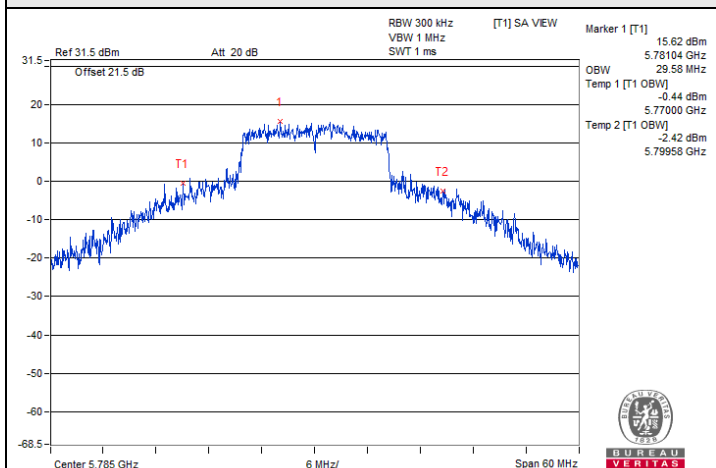
802.11ax (HE80) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	76.80	77.04	77.04
58	5290	77.28	76.80	77.28
106	5530	76.80	77.04	77.28
122	5610	77.04	76.80	76.56
138 (U-NII-2C)	5690	73.40	73.40	73.40
138 (U-NII-3)	5690	3.40	3.40	3.40
155	5775	76.56	77.04	76.80

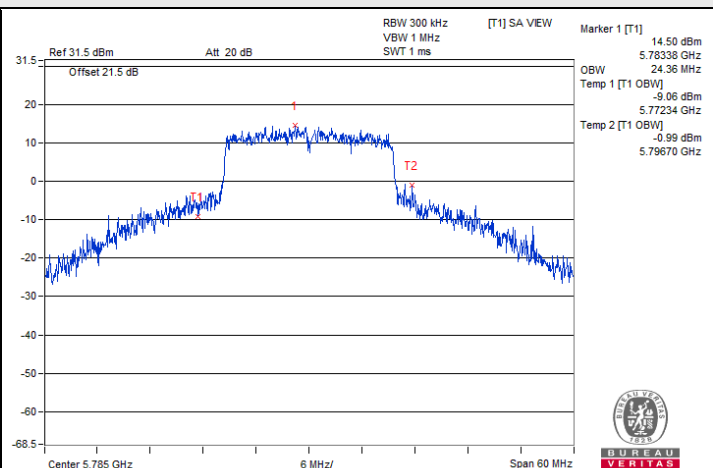
802.11ax (HE160) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
50 (U-NII-1)	5250	78.24	77.76	77.28
50 (U-NII-2A)	5250	77.76	78.24	78.24
114	5570	155.52	156.00	155.52

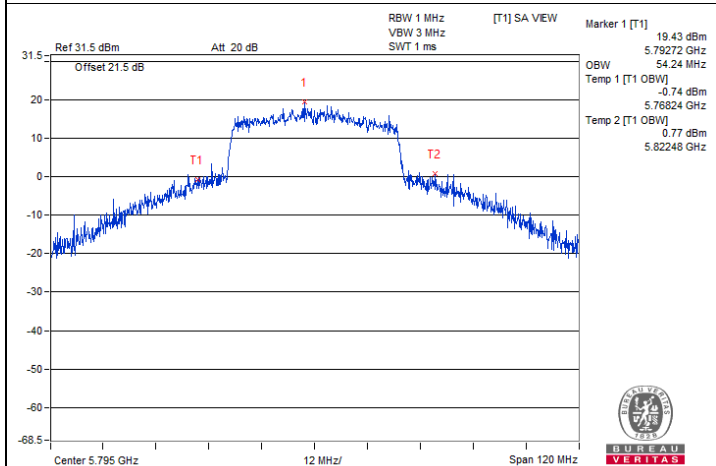
Spectrum Plot of Maximum Value



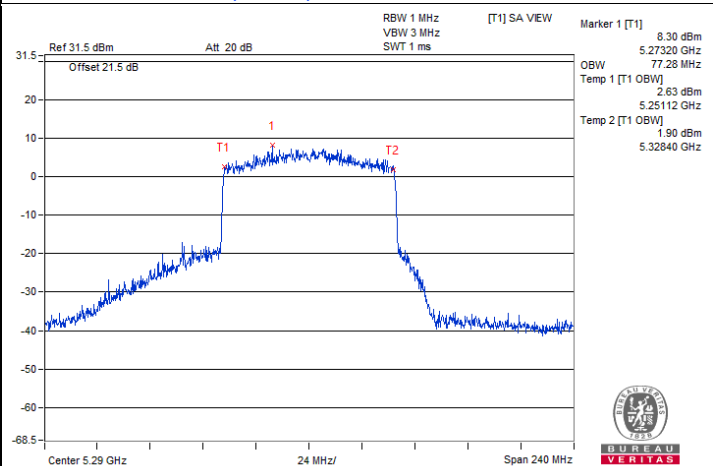
802.11a / Chain 1 : CH 157



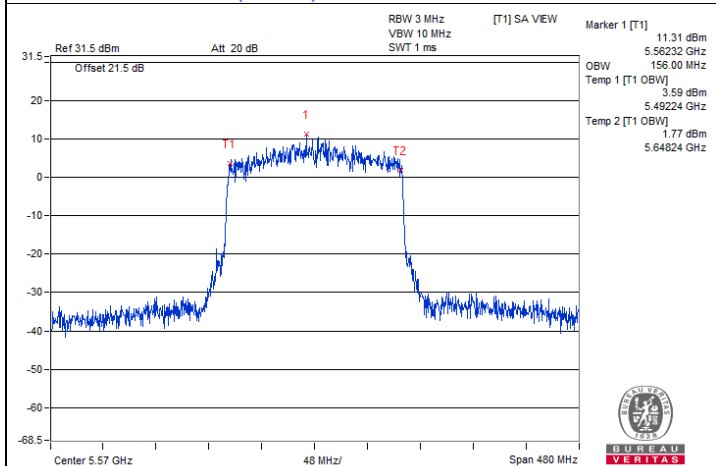
802.11ax (HE20) CDD / Chain 2 : CH 157



802.11ax (HE40) CDD / Chain 2 : CH 159

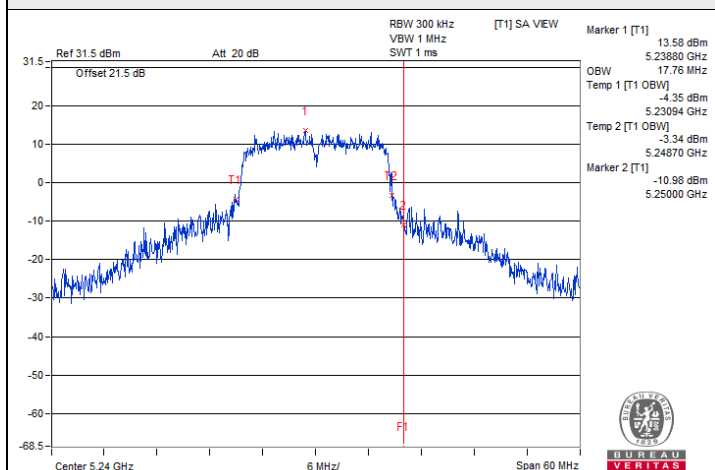


802.11ax (HE80) CDD / Chain 0 : CH 58

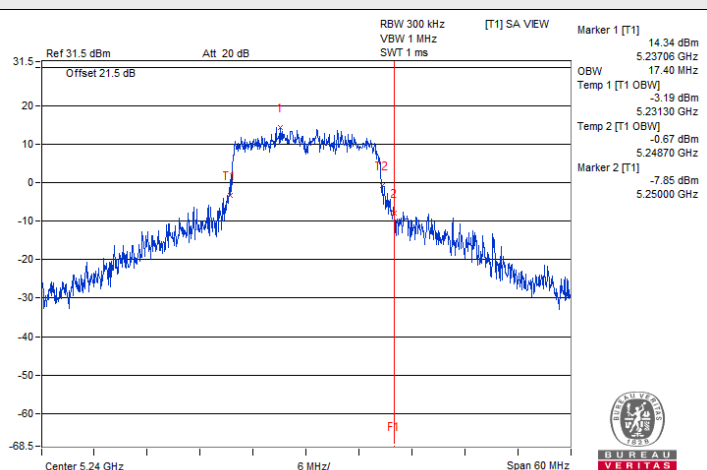


802.11ax (HE160) CDD / Chain 1 : CH 114

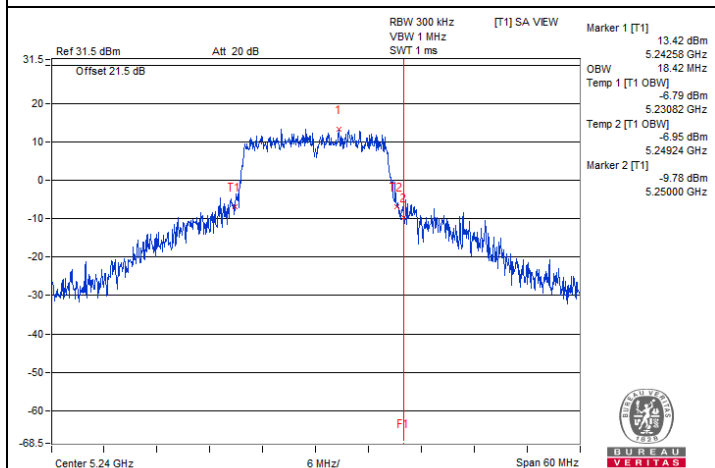
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



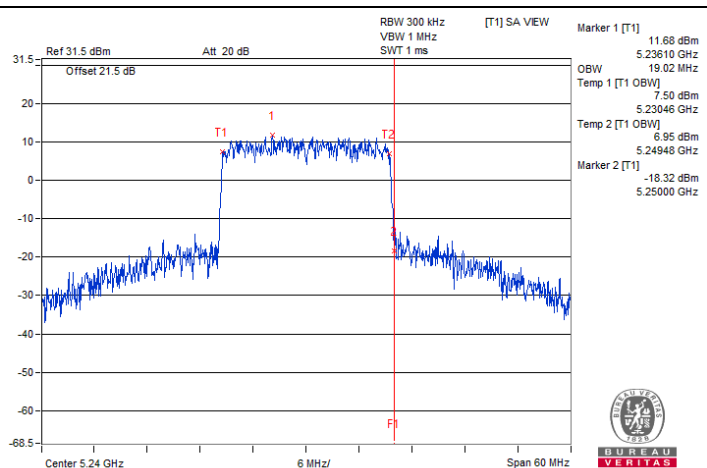
802.11a / Chain 0 : CH 48



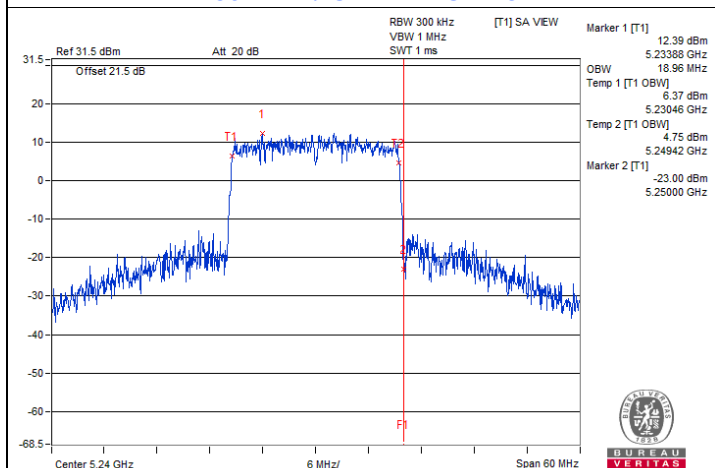
802.11a / Chain 1 : CH 48



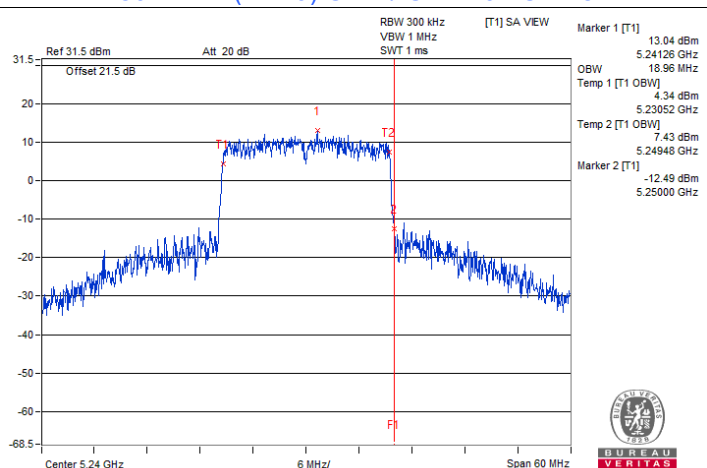
802.11a / Chain 2 : CH 48



802.11ax (HE20) CDD / Chain 0 : CH 48

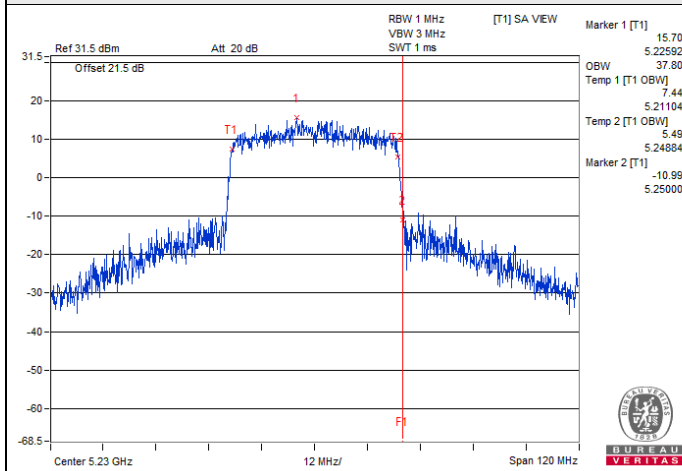


802.11ax (HE20) CDD / Chain 1 : CH 48

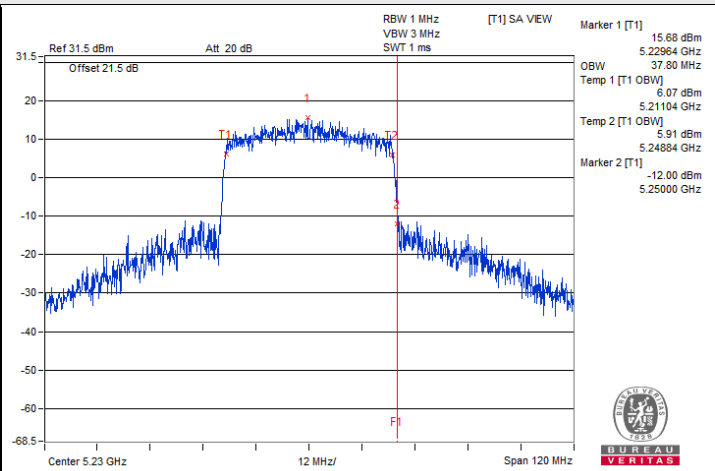


802.11ax (HE20) CDD / Chain 2 : CH 48

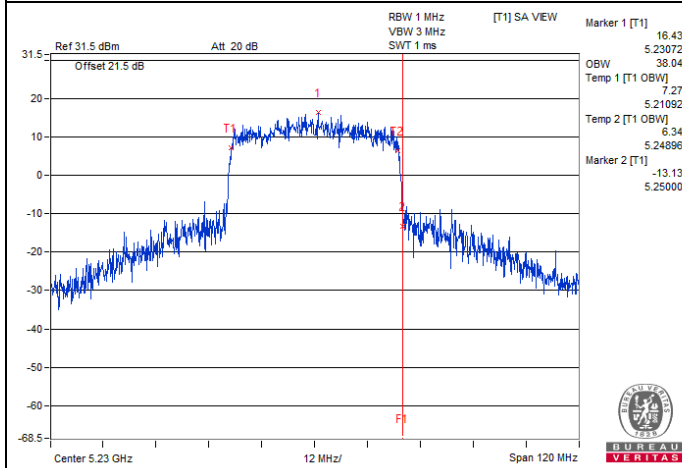
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



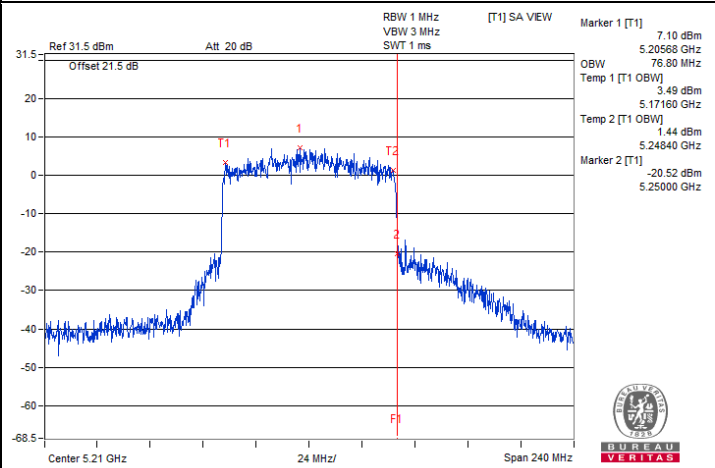
802.11ax (HE40) CDD / Chain 0 : CH 46



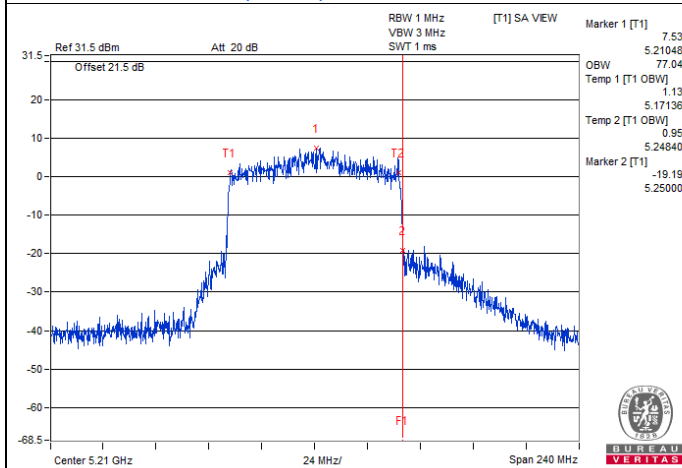
802.11ax (HE40) CDD / Chain 1 : CH 46



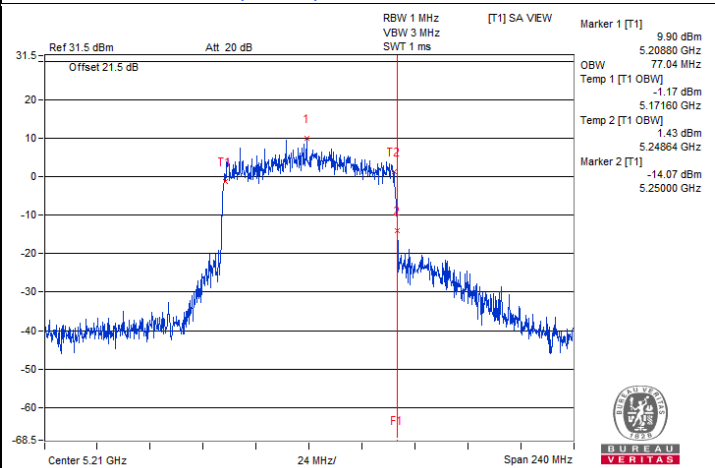
802.11ax (HE40) CDD / Chain 2 : CH 46



802.11ax (HE80) CDD / Chain 0 : CH 42

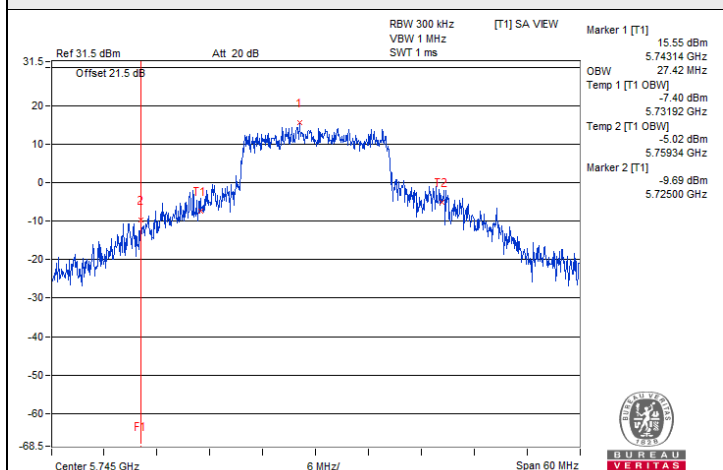


802.11ax (HE80) CDD / Chain 1 : CH 42

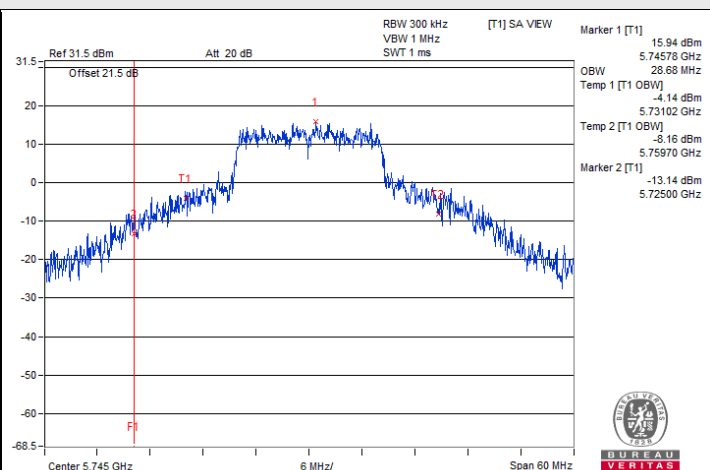


802.11ax (HE80) CDD / Chain 2 : CH 42

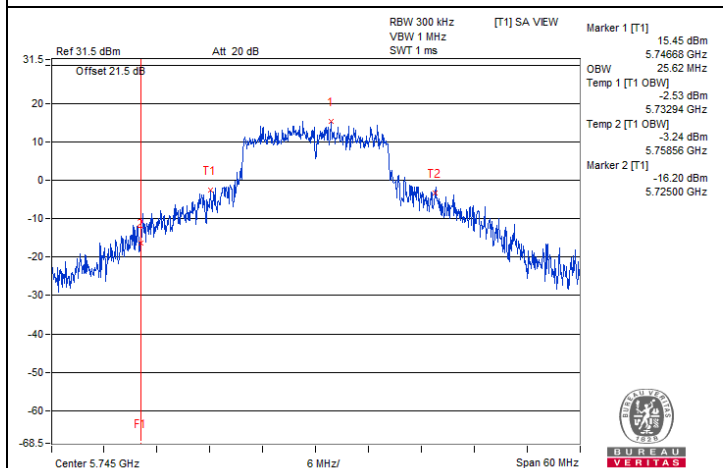
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



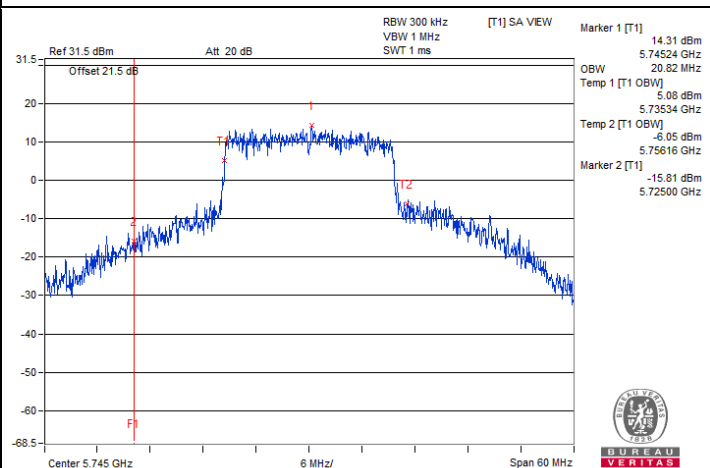
802.11a / Chain 0 : CH 149



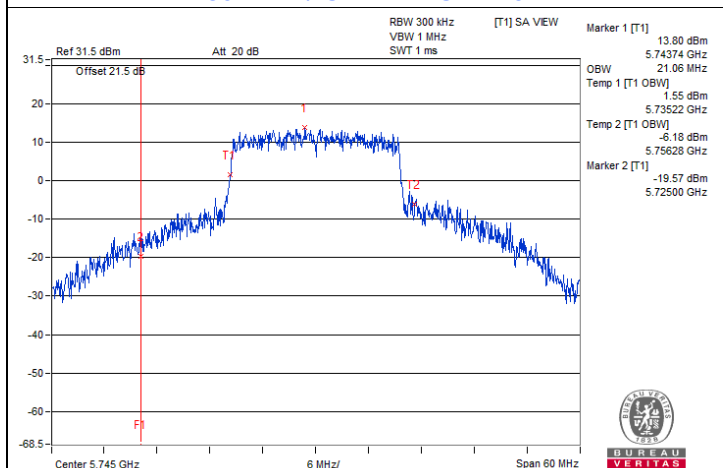
802.11a / Chain 1 : CH 149



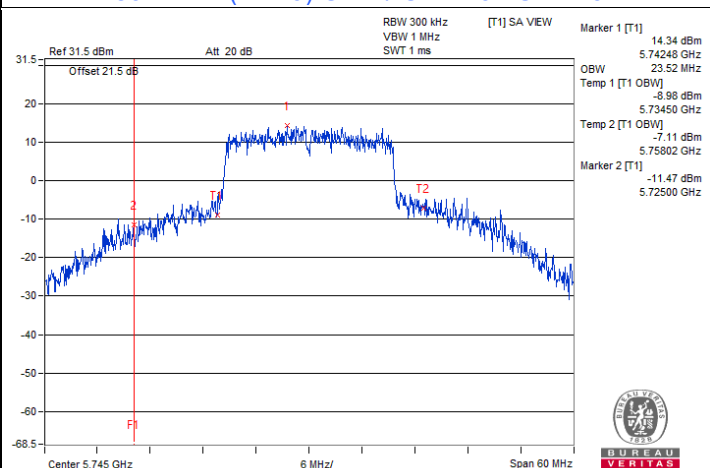
802.11a / Chain 2 : CH 149



802.11ax (HE20) CDD / Chain 0 : CH 149

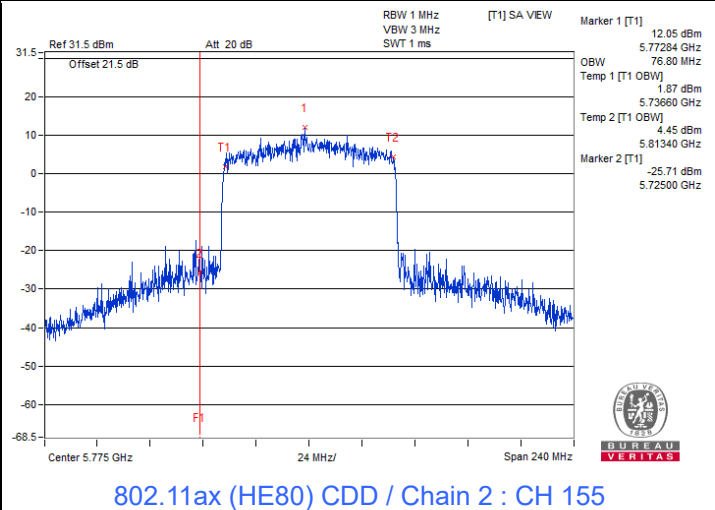
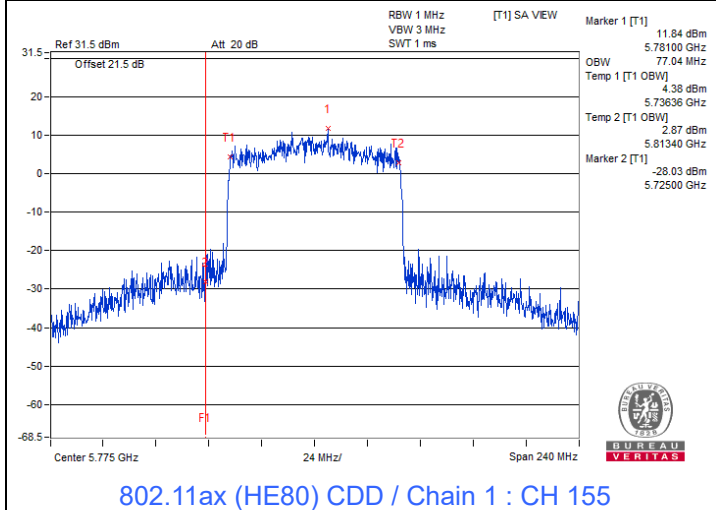
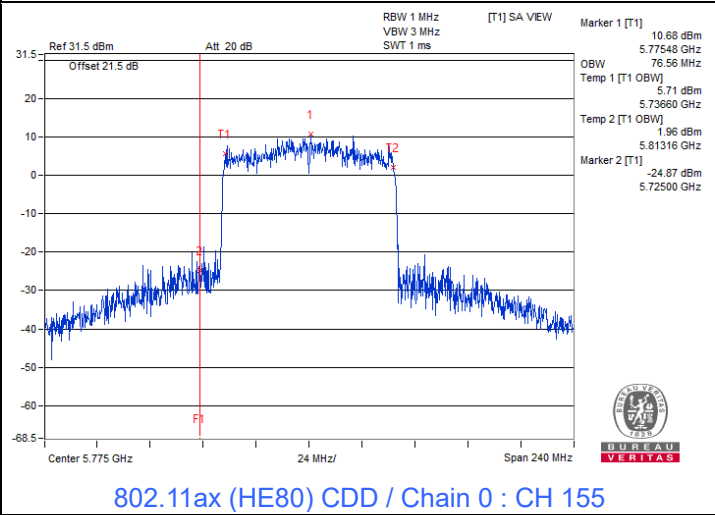
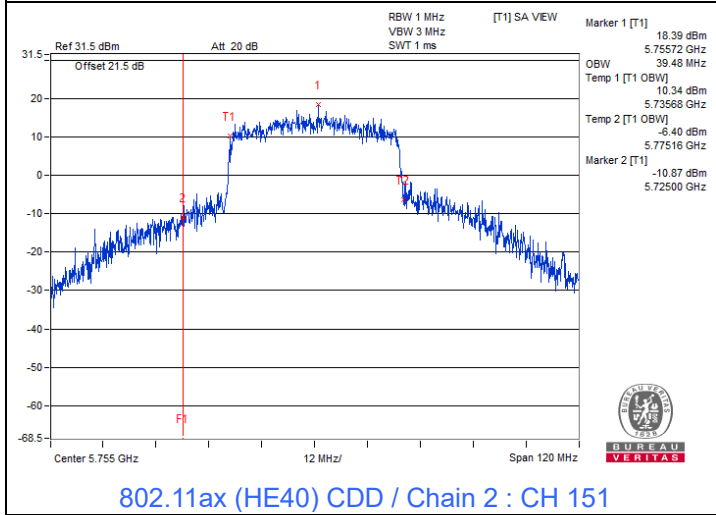
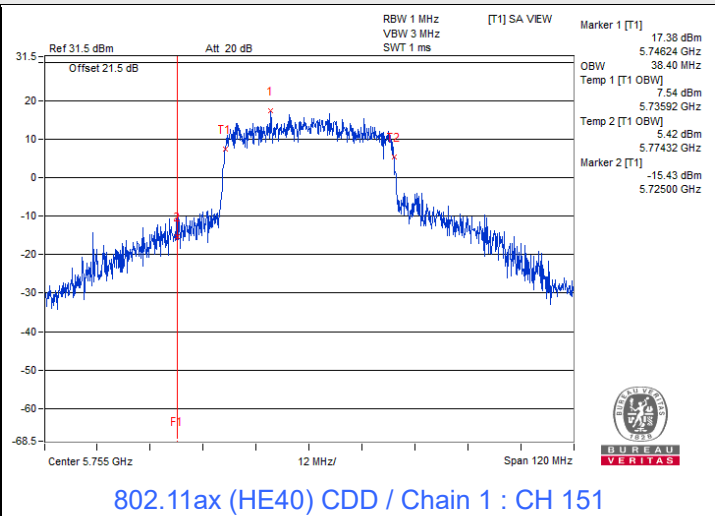
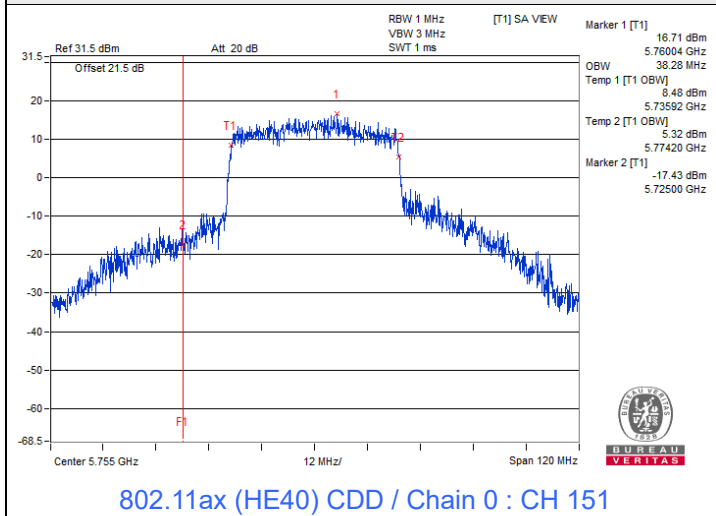


802.11ax (HE20) CDD / Chain 1 : CH 149



802.11ax (HE20) CDD / Chain 2 : CH 149

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



7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11a

Frequency Stability Versus Temperature									
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	5179.9776	Pass	5179.9816	Pass	5179.9785	Pass	5179.9775	Pass
30	120	5180.0157	Pass	5180.0181	Pass	5180.0164	Pass	5180.0163	Pass
20	120	5180.0266	Pass	5180.0241	Pass	5180.0263	Pass	5180.0276	Pass
10	120	5179.9861	Pass	5179.9826	Pass	5179.9864	Pass	5179.983	Pass
0	120	5180.0129	Pass	5180.0126	Pass	5180.012	Pass	5180.0139	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	5180.0275	Pass	5180.0296	Pass	5180.0321	Pass	5180.0275	Pass
	120	5180.0266	Pass	5180.0241	Pass	5180.0263	Pass	5180.0276	Pass
	102	5180.0153	Pass	5180.0176	Pass	5180.0191	Pass	5180.016	Pass

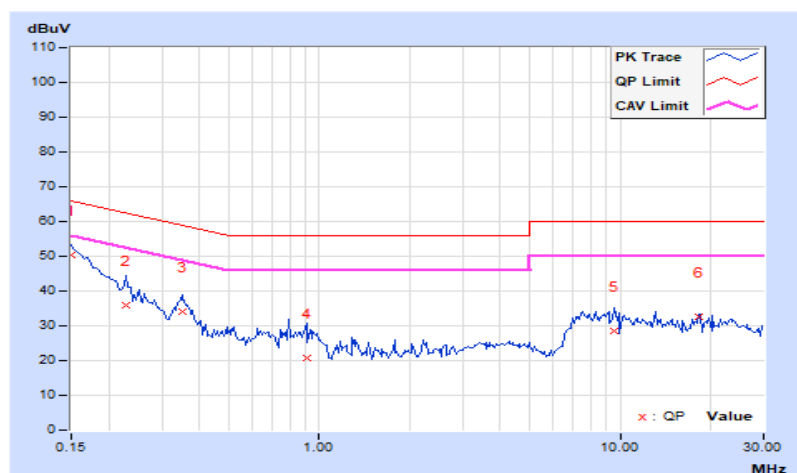
7.7 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 73% RH
Tested By	Sampson Chen		

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	0.15000	9.96	40.36	27.53	50.32	37.49	66.00	56.00	-15.68	-18.51
2	0.22812	9.95	26.08	13.32	36.03	23.27	62.52	52.52	-26.49	-29.25
3	0.34922	9.96	24.18	18.81	34.14	28.77	58.98	48.98	-24.84	-20.21
4	0.90781	9.99	10.60	3.94	20.59	13.93	56.00	46.00	-35.41	-32.07
5	9.52734	10.62	17.72	12.58	28.34	23.20	60.00	50.00	-31.66	-26.80
6	18.24219	11.11	21.41	17.19	32.52	28.30	60.00	50.00	-27.48	-21.70

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

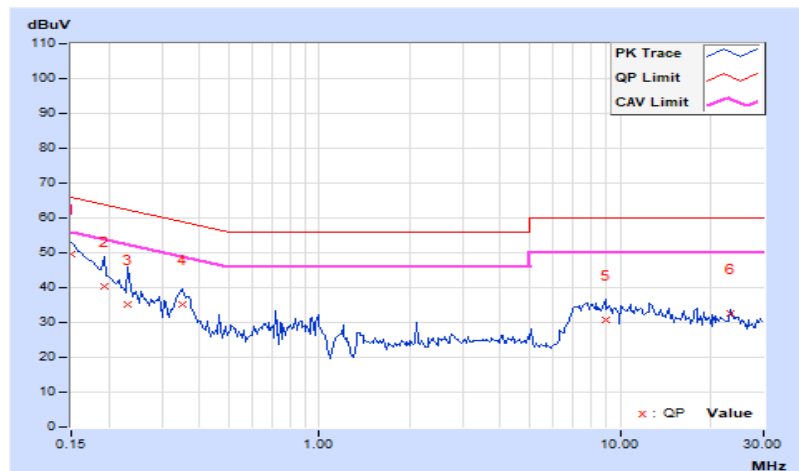


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 73% RH
Tested By	Sampson Chen		

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	0.15000	10.00	39.68	26.08	49.68	36.08	66.00	56.00	-16.32	-19.92
2	0.19297	10.00	30.55	16.99	40.55	26.99	63.91	53.91	-23.36	-26.92
3	0.23203	10.00	25.20	13.74	35.20	23.74	62.38	52.38	-27.18	-28.64
4	0.35313	10.01	25.17	20.79	35.18	30.80	58.89	48.89	-23.71	-18.09
5	8.94531	10.58	20.22	15.35	30.80	25.93	60.00	50.00	-29.20	-24.07
6	23.12891	11.10	21.38	16.63	32.48	27.73	60.00	50.00	-27.52	-22.27

Remarks:

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



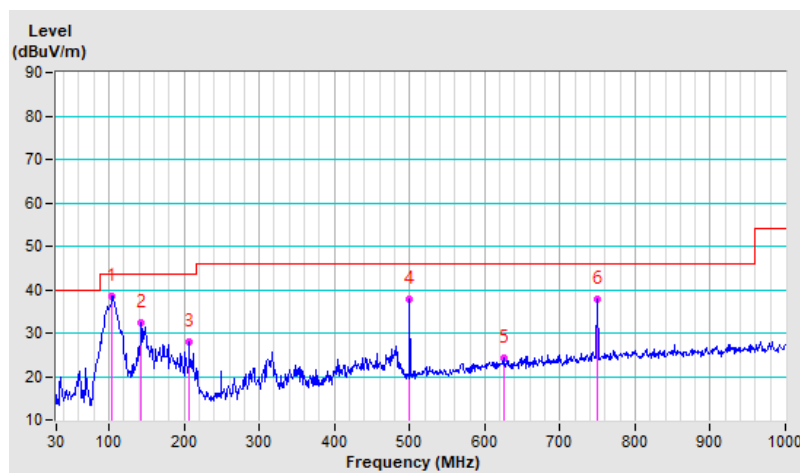
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	29°C, 77% RH
Tested By	Louis Yang		

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	104.65	38.6 QP	43.5	-4.9	2.00 H	259	54.7	-16.1
2	143.25	32.4 QP	43.5	-11.1	1.50 H	308	45.0	-12.6
3	207.03	27.9 QP	43.5	-15.6	1.00 H	251	43.4	-15.5
4	499.99	37.9 QP	46.0	-8.1	1.50 H	239	44.6	-6.7
5	625.03	24.2 QP	46.0	-21.8	1.00 H	241	28.1	-3.9
6	750.02	37.8 QP	46.0	-8.2	1.00 H	174	39.4	-1.6

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

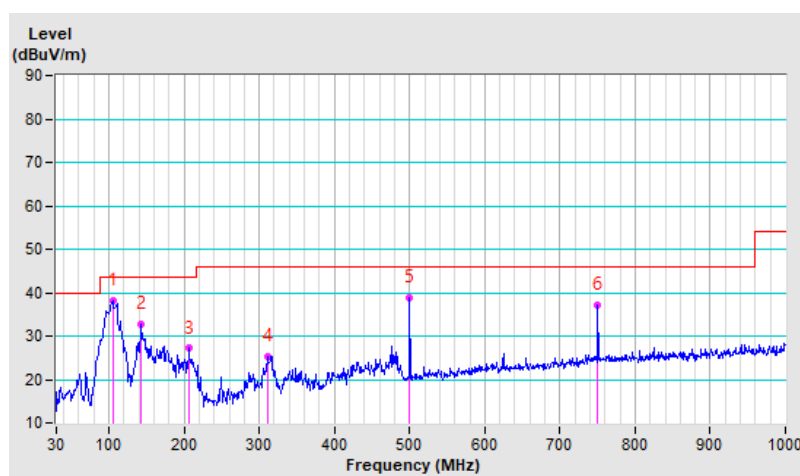


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	29°C, 77% RH
Tested By	Louis Yang		

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	104.74	38.1 QP	43.5	-5.4	1.50 V	259	54.2	-16.1
2	143.30	32.8 QP	43.5	-10.7	2.00 V	304	45.4	-12.6
3	206.21	27.2 QP	43.5	-16.3	1.50 V	246	42.7	-15.5
4	311.36	25.2 QP	46.0	-20.8	1.50 V	360	36.4	-11.2
5	499.99	38.8 QP	46.0	-7.2	1.50 V	232	45.5	-6.7
6	750.02	37.2 QP	46.0	-8.8	1.00 V	182	38.8	-1.6

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



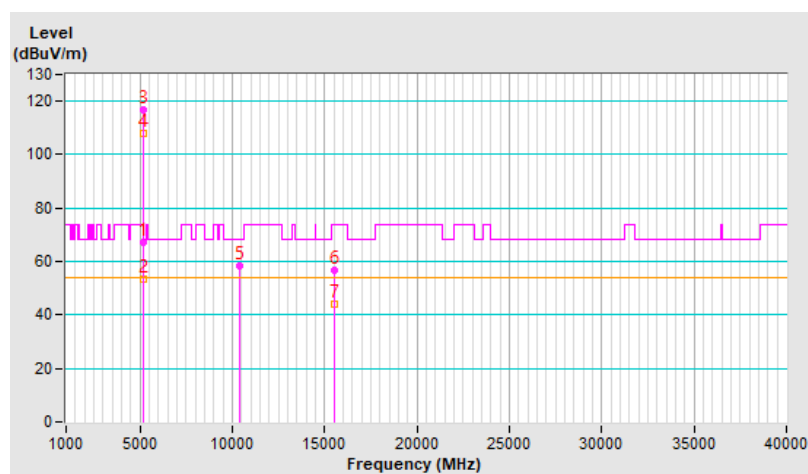
7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	67.0 PK	74.0	-7.0	1.44 H	341	61.4	5.6
2	5150.00	53.4 AV	54.0	-0.6	1.44 H	341	47.8	5.6
3	*5180.00	116.7 PK			1.44 H	341	111.1	5.6
4	*5180.00	107.8 AV			1.44 H	341	102.2	5.6
5	#10360.00	58.6 PK	68.2	-9.6	1.43 H	209	43.1	15.5
6	15540.00	56.5 PK	74.0	-17.5	1.55 H	9	40.1	16.4
7	15540.00	44.3 AV	54.0	-9.7	1.55 H	9	27.9	16.4

Remarks:

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

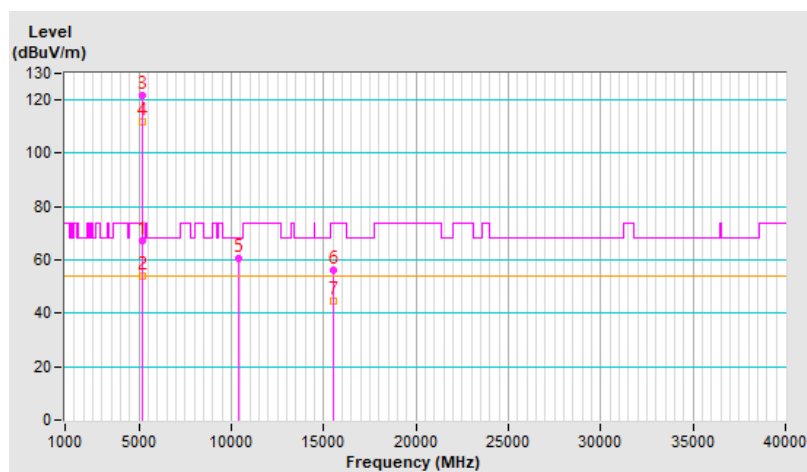


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	67.3 PK	74.0	-6.7	1.20 V	210	61.7	5.6
2	5150.00	53.9 AV	54.0	-0.1	1.20 V	210	48.3	5.6
3	*5180.00	121.5 PK			1.20 V	210	115.9	5.6
4	*5180.00	111.8 AV			1.20 V	210	106.2	5.6
5	#10360.00	60.8 PK	68.2	-7.4	1.31 V	149	45.3	15.5
6	15540.00	56.0 PK	74.0	-18.0	1.47 V	141	39.6	16.4
7	15540.00	44.7 AV	54.0	-9.3	1.47 V	141	28.3	16.4

Remarks:

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

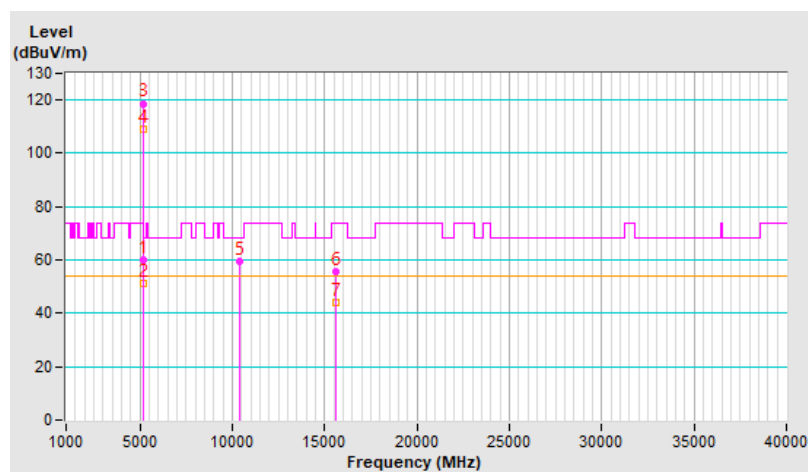


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	60.2 PK	74.0	-13.8	1.50 H	347	54.6	5.6
2	5150.00	51.2 AV	54.0	-2.8	1.50 H	347	45.6	5.6
3	*5200.00	118.7 PK			1.50 H	347	113.2	5.5
4	*5200.00	108.8 AV			1.50 H	347	103.3	5.5
5	#10400.00	59.5 PK	68.2	-8.7	1.48 H	194	43.9	15.6
6	15600.00	55.7 PK	74.0	-18.3	1.53 H	14	39.0	16.7
7	15600.00	44.0 AV	54.0	-10.0	1.53 H	14	27.3	16.7

Remarks:

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

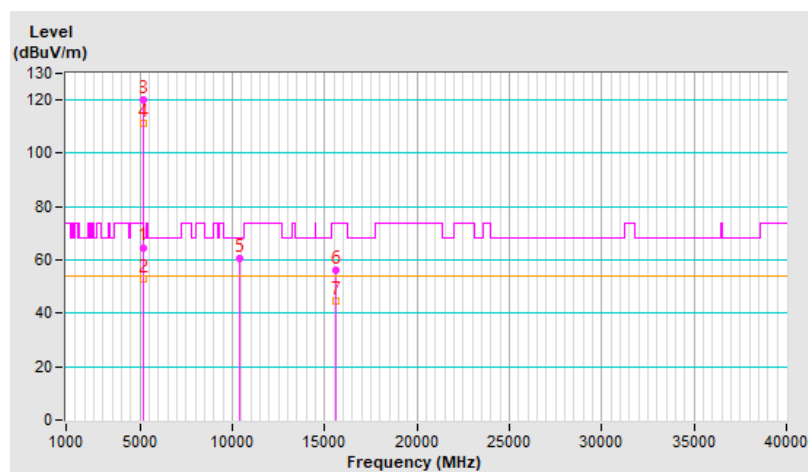


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	1.72 V	229	59.1	5.6
2	5150.00	53.3 AV	54.0	-0.7	1.72 V	229	47.7	5.6
3	*5200.00	120.2 PK			1.72 V	229	114.7	5.5
4	*5200.00	111.2 AV			1.72 V	229	105.7	5.5
5	#10400.00	60.8 PK	68.2	-7.4	1.31 V	149	45.2	15.6
6	15600.00	56.0 PK	74.0	-18.0	1.47 V	141	39.3	16.7
7	15600.00	44.7 AV	54.0	-9.3	1.47 V	141	28.0	16.7

Remarks:

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

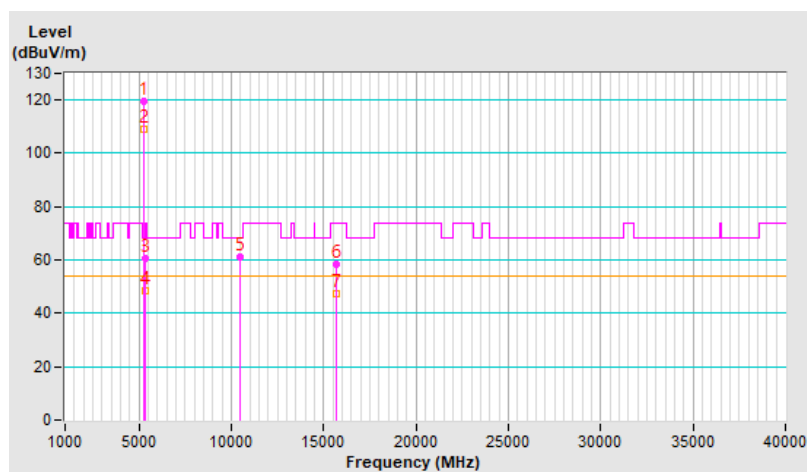


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.3 PK			1.50 H	346	114.1	5.2
2	*5240.00	109.0 AV			1.50 H	346	103.8	5.2
3	5354.80	60.4 PK	74.0	-13.6	1.50 H	346	54.9	5.5
4	5354.80	48.2 AV	54.0	-5.8	1.50 H	346	42.7	5.5
5	#10480.00	61.1 PK	68.2	-7.1	1.59 H	264	45.3	15.8
6	15720.00	58.5 PK	74.0	-15.5	1.71 H	241	41.9	16.6
7	15720.00	47.4 AV	54.0	-6.6	1.71 H	241	30.8	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.

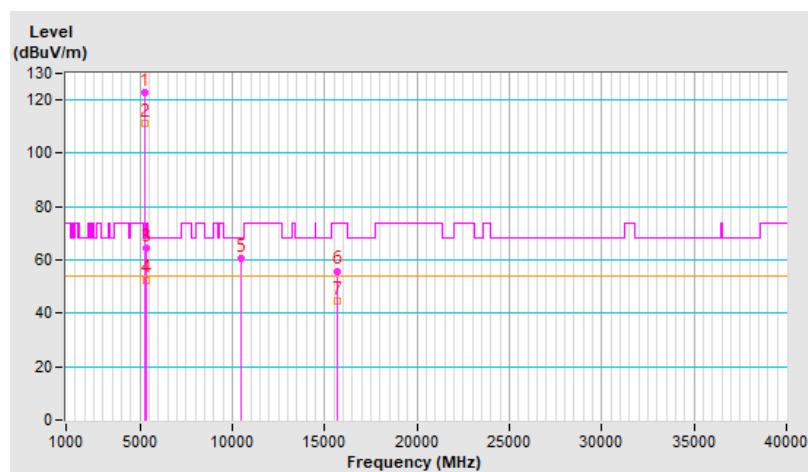


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	122.6 PK			1.79 V	227	117.4	5.2
2	*5240.00	111.2 AV			1.79 V	227	106.0	5.2
3	5354.80	64.6 PK	74.0	-9.4	1.79 V	227	59.1	5.5
4	5354.80	53.4 AV	54.0	-0.6	1.79 V	227	47.9	5.5
5	#10480.00	60.5 PK	68.2	-7.7	1.36 V	152	44.7	15.8
6	15720.00	55.9 PK	74.0	-18.1	1.50 V	155	39.3	16.6
7	15720.00	44.5 AV	54.0	-9.5	1.50 V	155	27.9	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.

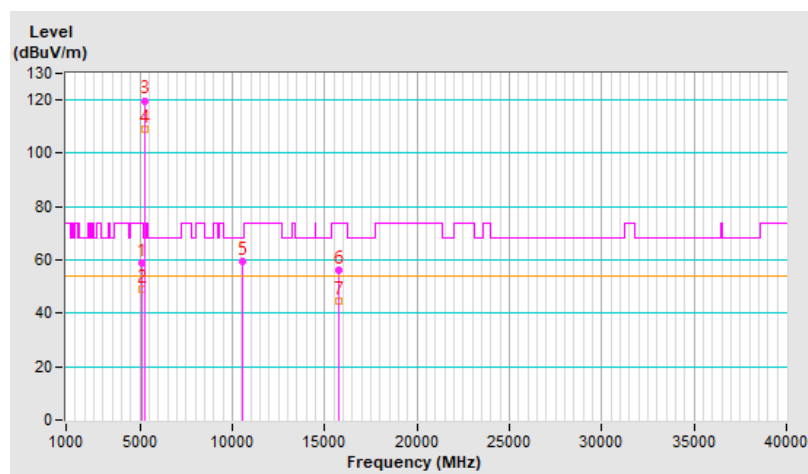


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5140.10	59.1 PK	74.0	-14.9	1.76 H	344	53.5	5.6
2	5140.10	49.2 AV	54.0	-4.8	1.76 H	344	43.6	5.6
3	*5260.00	119.8 PK			1.76 H	344	114.6	5.2
4	*5260.00	109.0 AV			1.76 H	344	103.8	5.2
5	#10520.00	59.5 PK	68.2	-8.7	1.48 H	211	43.5	16.0
6	15780.00	56.4 PK	74.0	-17.6	1.49 H	25	39.7	16.7
7	15780.00	44.4 AV	54.0	-9.6	1.49 H	25	27.7	16.7

Remarks:

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

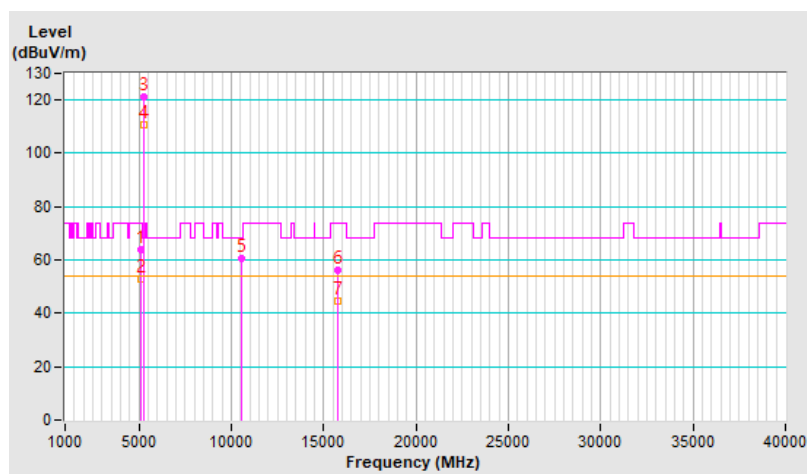


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5140.10	64.0 PK	74.0	-10.0	1.14 V	197	58.4	5.6
2	5140.10	53.1 AV	54.0	-0.9	1.14 V	197	47.5	5.6
3	*5260.00	121.0 PK			1.14 V	197	115.8	5.2
4	*5260.00	110.5 AV			1.14 V	197	105.3	5.2
5	#10520.00	60.8 PK	68.2	-7.4	1.31 V	149	44.8	16.0
6	15780.00	56.0 PK	74.0	-18.0	1.47 V	141	39.3	16.7
7	15780.00	44.7 AV	54.0	-9.3	1.47 V	141	28.0	16.7

Remarks:

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

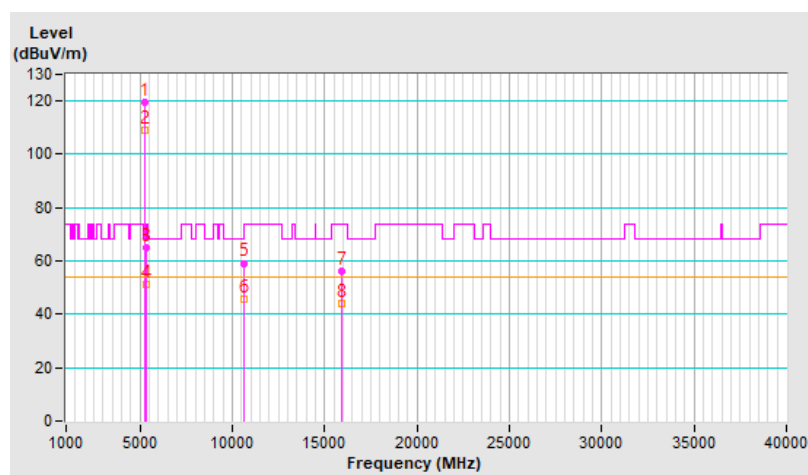


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	119.4 PK			1.50 H	161	114.2	5.2
2	*5300.00	108.8 AV			1.50 H	161	103.6	5.2
3	5351.50	65.0 PK	74.0	-9.0	1.50 H	161	59.5	5.5
4	5351.50	51.4 AV	54.0	-2.6	1.50 H	161	45.9	5.5
5	10600.00	59.2 PK	74.0	-14.8	1.48 H	204	43.4	15.8
6	10600.00	45.9 AV	54.0	-8.1	1.48 H	204	30.1	15.8
7	15900.00	56.3 PK	74.0	-17.7	1.49 H	24	39.9	16.4
8	15900.00	44.3 AV	54.0	-9.7	1.49 H	24	27.9	16.4

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.

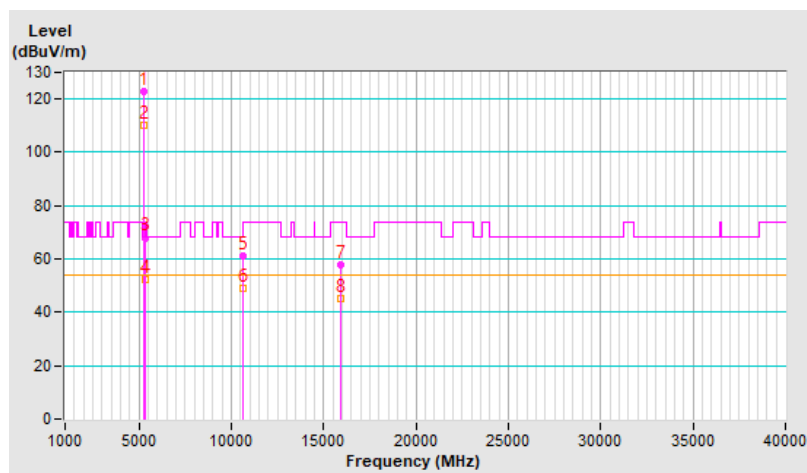


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	122.7 PK			2.03 V	220	117.5	5.2
2	*5300.00	110.4 AV			2.03 V	220	105.2	5.2
3	5351.50	68.0 PK	74.0	-6.0	2.03 V	220	62.5	5.5
4	5351.50	52.4 AV	54.0	-1.6	2.03 V	220	46.9	5.5
5	10600.00	61.2 PK	74.0	-12.8	1.50 V	153	45.4	15.8
6	10600.00	48.8 AV	54.0	-5.2	1.50 V	153	33.0	15.8
7	15900.00	57.9 PK	74.0	-16.1	1.05 V	360	41.5	16.4
8	15900.00	45.4 AV	54.0	-8.6	1.05 V	360	29.0	16.4

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.

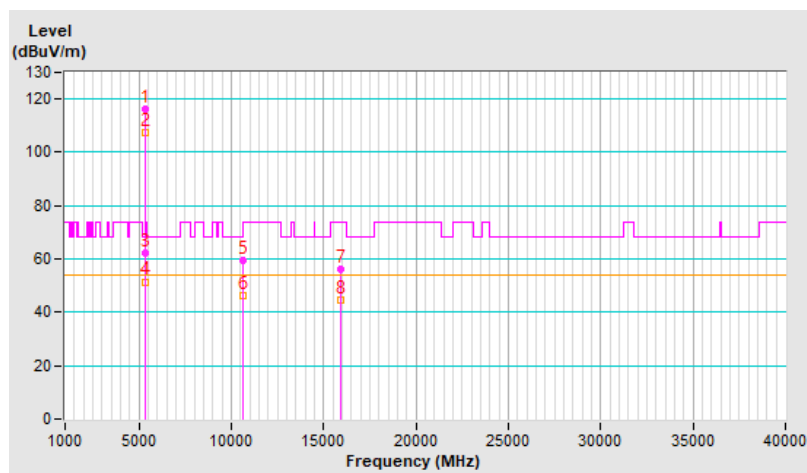


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	116.0 PK			1.68 H	347	110.7	5.3
2	*5320.00	107.2 AV			1.68 H	347	101.9	5.3
3	5350.00	62.2 PK	74.0	-11.8	1.68 H	347	56.7	5.5
4	5350.00	51.5 AV	54.0	-2.5	1.68 H	347	46.0	5.5
5	10640.00	59.6 PK	74.0	-14.4	1.48 H	189	43.6	16.0
6	10640.00	46.3 AV	54.0	-7.7	1.48 H	189	30.3	16.0
7	15960.00	56.3 PK	74.0	-17.7	1.51 H	15	39.4	16.9
8	15960.00	44.4 AV	54.0	-9.6	1.51 H	15	27.5	16.9

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.

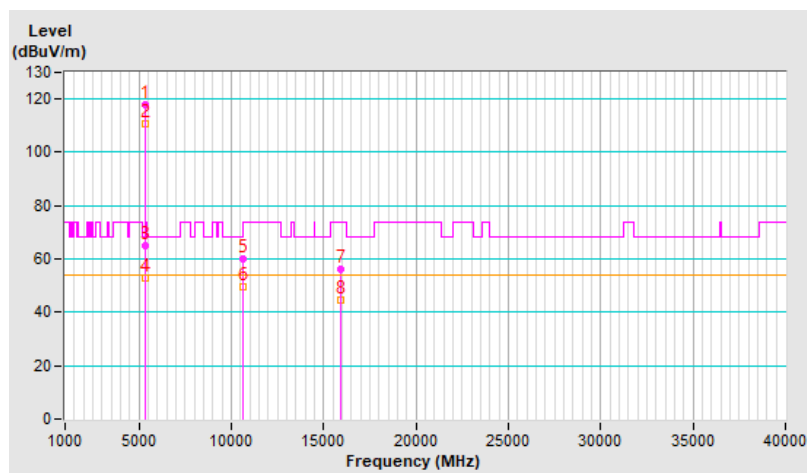


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	118.0 PK			1.62 V	199	112.7	5.3
2	*5320.00	110.8 AV			1.62 V	199	105.5	5.3
3	5361.60	65.2 PK	74.0	-8.8	1.62 V	199	59.7	5.5
4	5361.60	52.7 AV	54.0	-1.3	1.62 V	199	47.2	5.5
5	10640.00	60.2 PK	74.0	-13.8	1.32 V	162	44.2	16.0
6	10640.00	49.5 AV	54.0	-4.5	1.32 V	162	33.5	16.0
7	15960.00	56.1 PK	74.0	-17.9	1.49 V	170	39.2	16.9
8	15960.00	44.6 AV	54.0	-9.4	1.49 V	170	27.7	16.9

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.

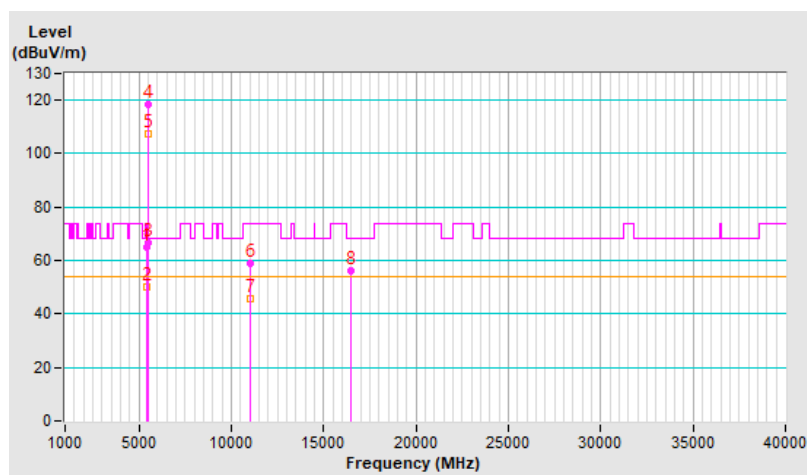


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	65.1 PK	74.0	-8.9	1.50 H	348	59.5	5.6
2	5460.00	50.0 AV	54.0	-4.0	1.50 H	348	44.4	5.6
3	#5470.00	66.5 PK	68.2	-1.7	1.50 H	348	60.9	5.6
4	*5500.00	118.2 PK			1.50 H	348	112.5	5.7
5	*5500.00	107.4 AV			1.50 H	348	101.7	5.7
6	11000.00	59.0 PK	74.0	-15.0	1.51 H	201	42.4	16.6
7	11000.00	45.5 AV	54.0	-8.5	1.51 H	201	28.9	16.6
8	#16500.00	56.3 PK	68.2	-11.9	1.52 H	38	37.5	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.

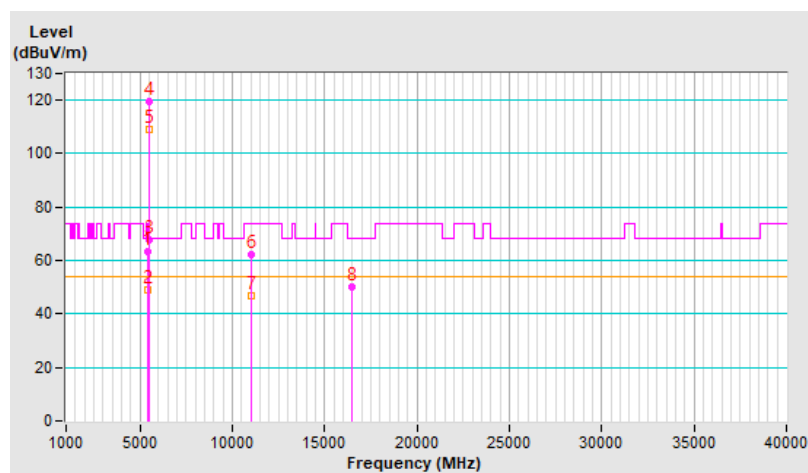


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.2 PK	74.0	-10.8	1.50 V	230	57.6	5.6
2	5460.00	49.2 AV	54.0	-4.8	1.50 V	230	43.6	5.6
3	#5470.00	67.8 PK	68.2	-0.4	1.50 V	230	62.2	5.6
4	*5500.00	119.3 PK			1.50 V	230	113.6	5.7
5	*5500.00	109.2 AV			1.50 V	230	103.5	5.7
6	11000.00	62.4 PK	74.0	-11.6	3.75 V	214	45.8	16.6
7	11000.00	46.9 AV	54.0	-7.1	3.75 V	214	30.3	16.6
8	#16500.00	50.1 PK	68.2	-18.1	1.50 V	360	31.3	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.

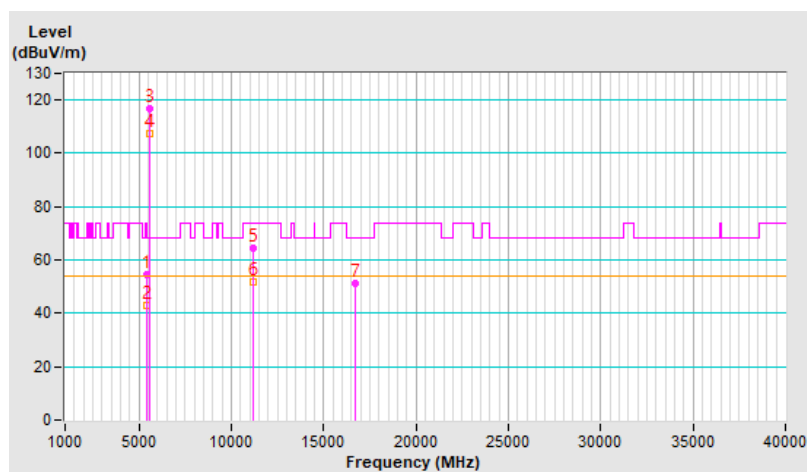


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5420.00	54.3 PK	74.0	-19.7	2.23 H	313	48.8	5.5
2	5420.00	43.0 AV	54.0	-11.0	2.23 H	313	37.5	5.5
3	*5580.00	117.0 PK			2.23 H	313	111.4	5.6
4	*5580.00	107.4 AV			2.23 H	313	101.8	5.6
5	11160.00	64.3 PK	74.0	-9.7	1.30 H	180	48.3	16.0
6	11160.00	51.9 AV	54.0	-2.1	1.30 H	180	35.9	16.0
7	#16740.00	51.0 PK	68.2	-17.2	1.50 H	25	30.1	20.9

Remarks:

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

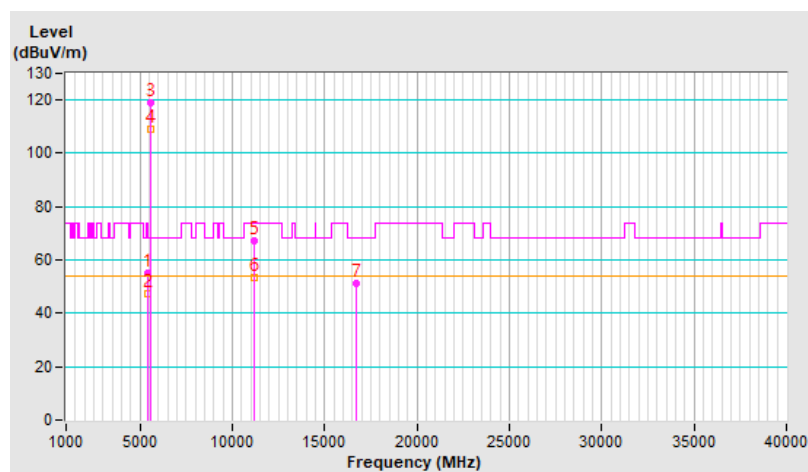


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5420.00	54.9 PK	74.0	-19.1	1.77 V	227	49.4	5.5
2	5420.00	47.5 AV	54.0	-6.5	1.77 V	227	42.0	5.5
3	*5580.00	118.9 PK			1.77 V	227	113.3	5.6
4	*5580.00	109.3 AV			1.77 V	227	103.7	5.6
5	11160.00	67.4 PK	74.0	-6.6	3.24 V	214	51.4	16.0
6	11160.00	53.3 AV	54.0	-0.7	3.24 V	214	37.3	16.0
7	#16740.00	51.1 PK	68.2	-17.1	1.50 V	186	30.2	20.9

Remarks:

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

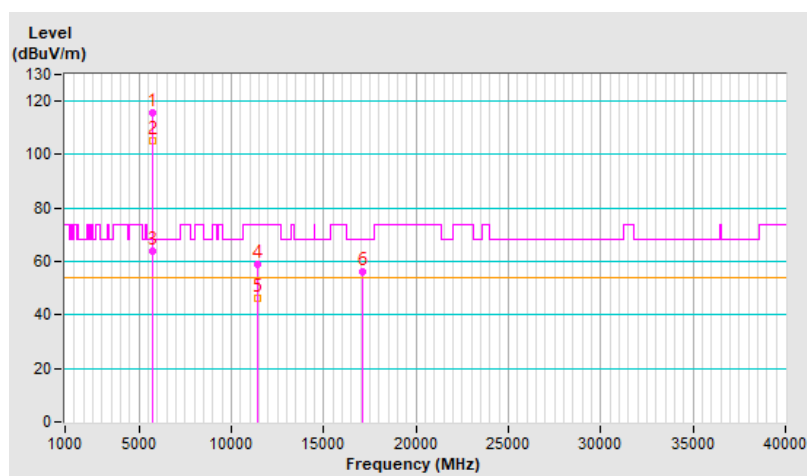


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	115.6 PK			1.86 H	339	109.9	5.7
2	*5700.00	105.2 AV			1.86 H	339	99.5	5.7
3	#5725.00	63.7 PK	68.2	-4.5	1.86 H	339	57.9	5.8
4	11400.00	59.1 PK	74.0	-14.9	1.53 H	217	42.4	16.7
5	11400.00	46.0 AV	54.0	-8.0	1.53 H	217	29.3	16.7
6	#17100.00	56.0 PK	68.2	-12.2	1.51 H	19	34.4	21.6

Remarks:

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

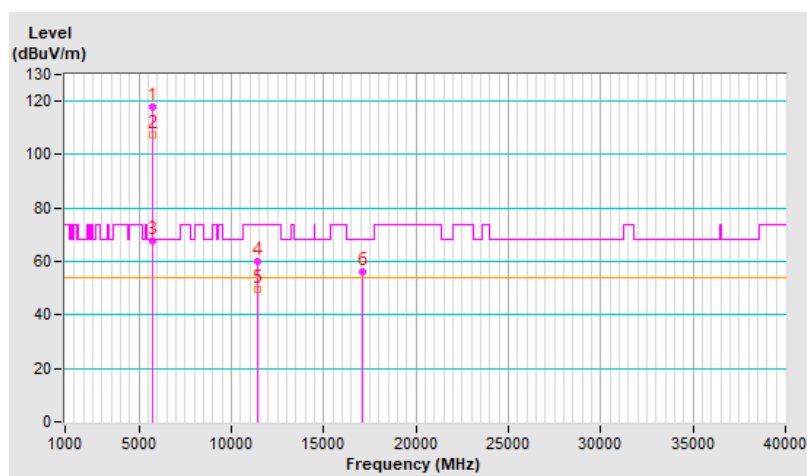


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	118.1 PK			1.79 V	226	112.4	5.7
2	*5700.00	107.3 AV			1.79 V	226	101.6	5.7
3	#5725.00	67.5 PK	68.2	-0.7	1.79 V	226	61.7	5.8
4	11400.00	60.2 PK	74.0	-13.8	1.32 V	162	43.5	16.7
5	11400.00	49.5 AV	54.0	-4.5	1.32 V	162	32.8	16.7
6	#17100.00	56.1 PK	68.2	-12.1	1.49 V	170	34.5	21.6

Remarks:

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

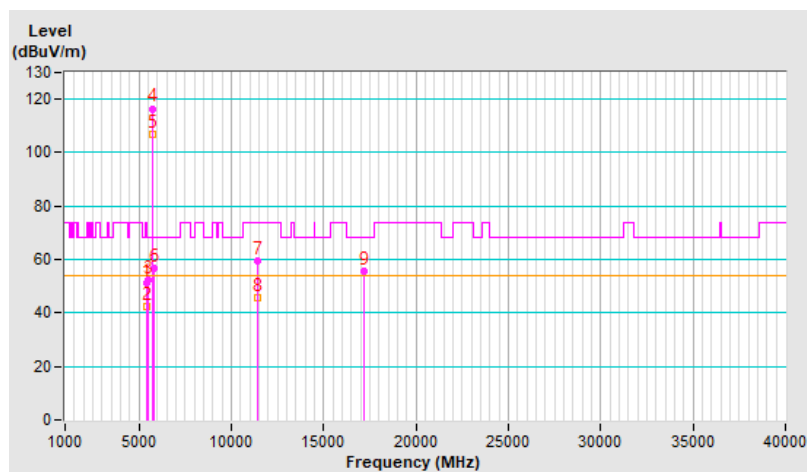


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.3 PK	74.0	-22.7	1.72 H	340	45.7	5.6
2	5460.00	42.5 AV	54.0	-11.5	1.72 H	340	36.9	5.6
3	#5470.00	52.3 PK	68.2	-15.9	1.72 H	340	46.7	5.6
4	*5720.00	116.5 PK			1.72 H	340	110.7	5.8
5	*5720.00	106.7 AV			1.72 H	340	100.9	5.8
6	#5850.00	56.5 PK	68.2	-11.7	1.72 H	340	50.0	6.5
7	11440.00	59.3 PK	74.0	-14.7	1.47 H	189	42.5	16.8
8	11440.00	45.7 AV	54.0	-8.3	1.47 H	189	28.9	16.8
9	#17160.00	55.8 PK	68.2	-12.4	1.44 H	14	34.5	21.3

Remarks:

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

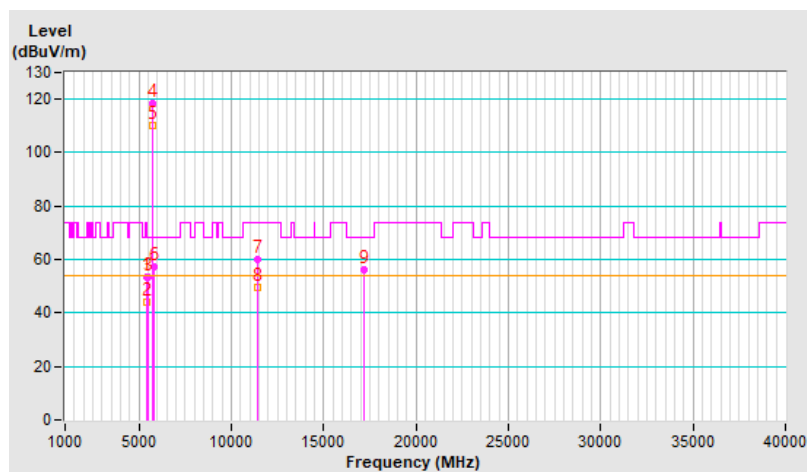


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	53.2 PK	74.0	-20.8	1.81 V	232	47.6	5.6
2	5460.00	44.1 AV	54.0	-9.9	1.81 V	232	38.5	5.6
3	#5470.00	53.6 PK	68.2	-14.6	1.81 V	232	48.0	5.6
4	*5720.00	118.3 PK			1.81 V	232	112.5	5.8
5	*5720.00	110.3 AV			1.81 V	232	104.5	5.8
6	#5850.00	57.5 PK	68.2	-10.7	1.81 V	232	51.0	6.5
7	11440.00	60.2 PK	74.0	-13.8	1.32 V	162	43.4	16.8
8	11440.00	49.5 AV	54.0	-4.5	1.32 V	162	32.7	16.8
9	#17160.00	56.1 PK	68.2	-12.1	1.49 V	170	34.8	21.3

Remarks:

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

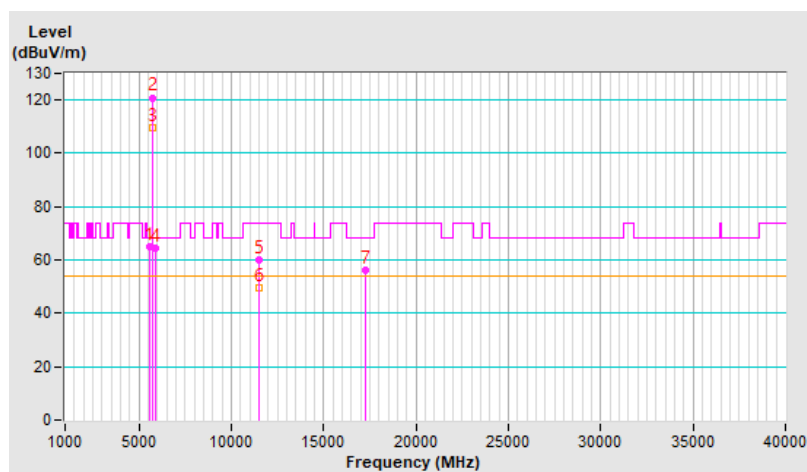


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5584.90	65.2 PK	68.2	-3.0	1.69 V	217	59.6	5.6
2	*5745.00	120.9 PK			1.69 V	217	115.1	5.8
3	*5745.00	109.5 AV			1.69 V	217	103.7	5.8
4	#5932.40	64.5 PK	68.2	-3.7	1.69 V	217	58.2	6.3
5	11490.00	60.2 PK	74.0	-13.8	1.32 V	162	43.3	16.9
6	11490.00	49.5 AV	54.0	-4.5	1.32 V	162	32.6	16.9
7	#17235.00	56.1 PK	68.2	-12.1	1.49 V	170	35.0	21.1

Remarks:

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

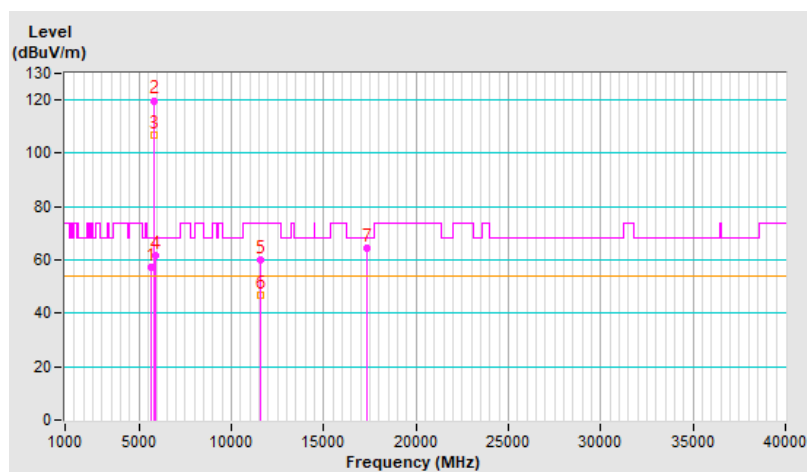


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.40	57.4 PK	68.2	-10.8	1.50 H	347	51.6	5.8
2	*5785.00	119.8 PK			1.50 H	347	113.6	6.2
3	*5785.00	106.6 AV			1.50 H	347	100.4	6.2
4	#5929.00	61.6 PK	68.2	-6.6	1.50 H	347	55.3	6.3
5	11570.00	60.0 PK	74.0	-14.0	1.43 H	173	43.3	16.7
6	11570.00	46.7 AV	54.0	-7.3	1.43 H	173	30.0	16.7
7	#17355.00	64.6 PK	68.2	-3.6	1.69 H	257	43.0	21.6

Remarks:

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

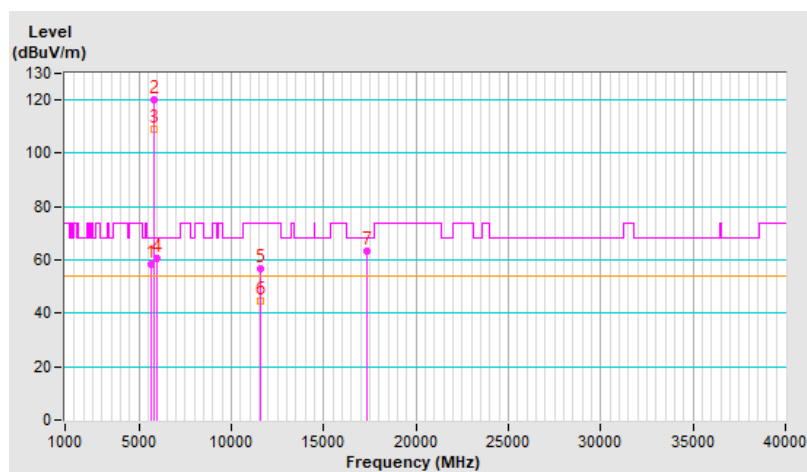


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.70	58.3 PK	68.2	-9.9	1.82 V	228	52.4	5.9
2	*5785.00	120.2 PK			1.82 V	228	114.0	6.2
3	*5785.00	109.1 AV			1.82 V	228	102.9	6.2
4	#5941.00	60.7 PK	68.2	-7.5	1.82 V	228	54.3	6.4
5	11570.00	56.7 PK	74.0	-17.3	1.59 V	236	40.0	16.7
6	11570.00	44.4 AV	54.0	-9.6	1.59 V	236	27.7	16.7
7	#17355.00	63.3 PK	68.2	-4.9	4.00 V	214	41.7	21.6

Remarks:

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

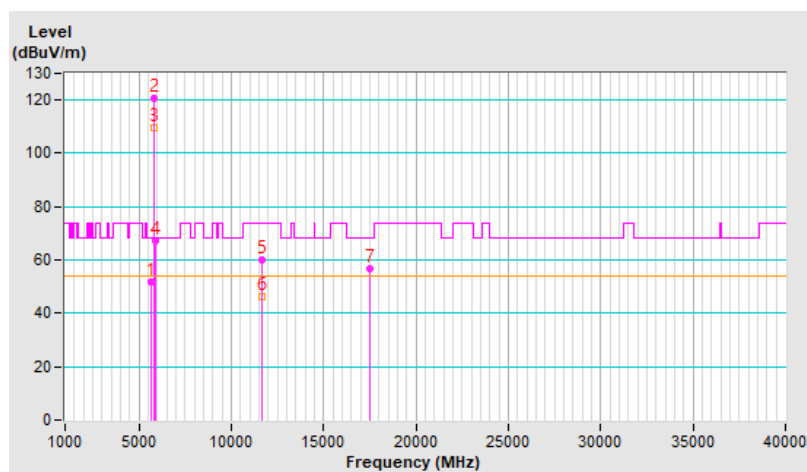


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5637.30	51.6 PK	68.2	-16.6	1.50 H	339	45.8	5.8
2	*5825.00	120.4 PK			1.50 H	339	114.0	6.4
3	*5825.00	109.6 AV			1.50 H	339	103.2	6.4
4	#5934.20	67.1 PK	68.2	-1.1	1.50 H	339	60.8	6.3
5	11650.00	59.9 PK	74.0	-14.1	1.50 H	208	43.4	16.5
6	11650.00	46.3 AV	54.0	-7.7	1.50 H	208	29.8	16.5
7	#17475.00	56.7 PK	68.2	-11.5	1.50 H	0	34.7	22.0

Remarks:

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

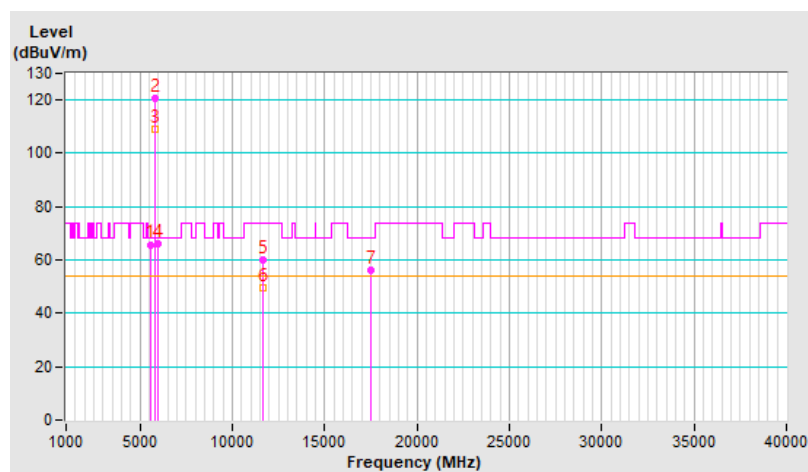


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5585.50	65.8 PK	68.2	-2.4	1.72 V	219	60.2	5.6
2	*5825.00	120.5 PK			1.72 V	219	114.1	6.4
3	*5825.00	109.2 AV			1.72 V	219	102.8	6.4
4	#5986.40	66.1 PK	68.2	-2.1	1.72 V	219	59.8	6.3
5	11650.00	60.2 PK	74.0	-13.8	1.40 V	159	43.7	16.5
6	11650.00	49.6 AV	54.0	-4.4	1.40 V	159	33.1	16.5
7	#17475.00	56.0 PK	68.2	-12.2	1.47 V	170	34.0	22.0

Remarks:

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

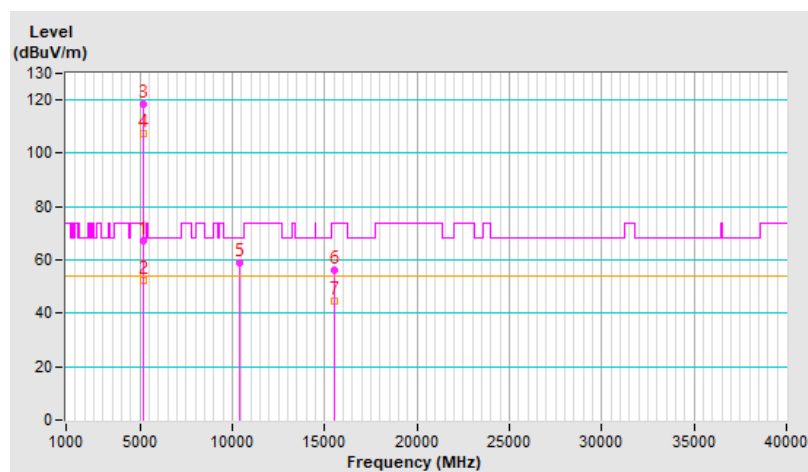


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.50	67.4 PK	74.0	-6.6	2.96 H	137	61.8	5.6
2	5148.50	52.1 AV	54.0	-1.9	2.96 H	137	46.5	5.6
3	*5180.00	118.3 PK			2.96 H	137	112.7	5.6
4	*5180.00	107.6 AV			2.96 H	137	102.0	5.6
5	#10360.00	59.1 PK	68.2	-9.1	1.50 H	195	43.6	15.5
6	15540.00	56.4 PK	74.0	-17.6	1.44 H	10	40.0	16.4
7	15540.00	44.6 AV	54.0	-9.4	1.44 H	10	28.2	16.4

Remarks:

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

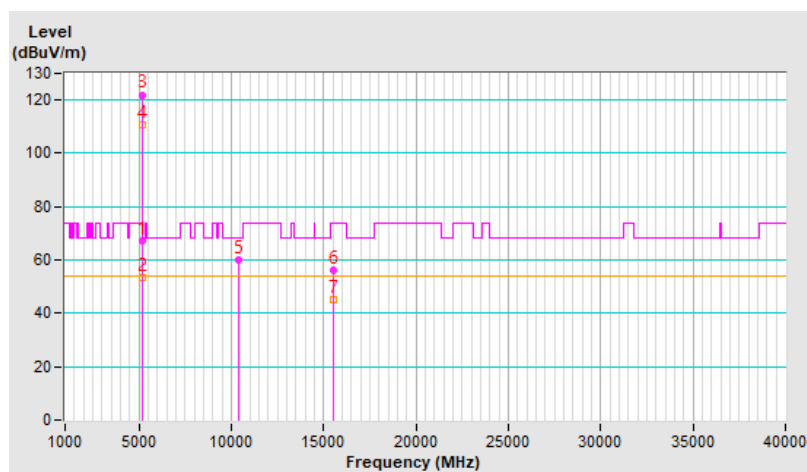


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.50	67.2 PK	74.0	-6.8	1.96 V	229	61.6	5.6
2	5148.50	53.4 AV	54.0	-0.6	1.96 V	229	47.8	5.6
3	*5180.00	122.0 PK			1.96 V	229	116.4	5.6
4	*5180.00	110.8 AV			1.96 V	229	105.2	5.6
5	#10360.00	60.2 PK	68.2	-8.0	1.40 V	159	44.7	15.5
6	15540.00	56.0 PK	74.0	-18.0	1.47 V	170	39.6	16.4
7	15540.00	44.9 AV	54.0	-9.1	1.47 V	170	28.5	16.4

Remarks:

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

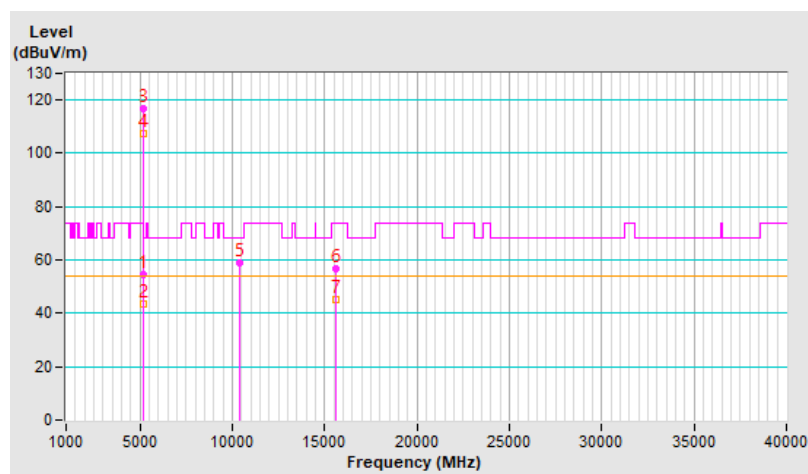


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.50	54.7 PK	74.0	-19.3	1.40 H	160	49.1	5.6
2	5148.50	43.5 AV	54.0	-10.5	1.40 H	160	37.9	5.6
3	*5200.00	116.8 PK			1.40 H	160	111.3	5.5
4	*5200.00	107.1 AV			1.40 H	160	101.6	5.5
5	#10400.00	58.9 PK	68.2	-9.3	1.52 H	211	43.3	15.6
6	15600.00	56.9 PK	74.0	-17.1	1.46 H	24	40.2	16.7
7	15600.00	45.1 AV	54.0	-8.9	1.46 H	24	28.4	16.7

Remarks:

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

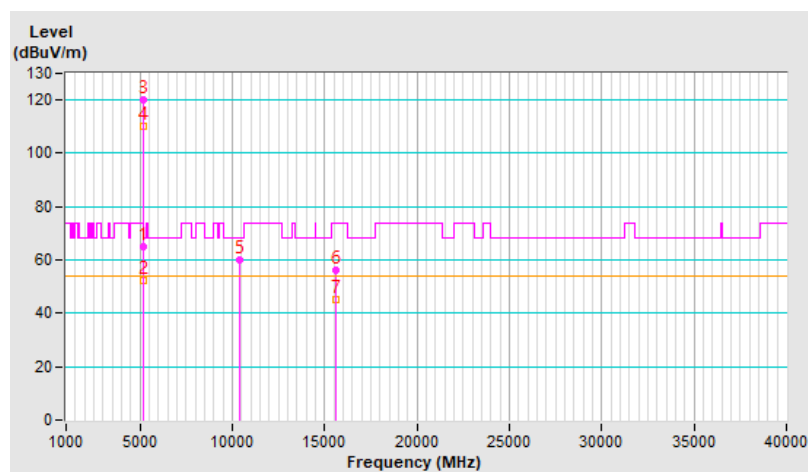


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.50	64.9 PK	74.0	-9.1	2.10 V	227	59.3	5.6
2	5148.50	52.1 AV	54.0	-1.9	2.10 V	227	46.5	5.6
3	*5200.00	119.9 PK			2.10 V	227	114.4	5.5
4	*5200.00	110.0 AV			2.10 V	227	104.5	5.5
5	#10400.00	60.2 PK	68.2	-8.0	1.40 V	159	44.6	15.6
6	15600.00	56.0 PK	74.0	-18.0	1.47 V	170	39.3	16.7
7	15600.00	44.9 AV	54.0	-9.1	1.47 V	170	28.2	16.7

Remarks:

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

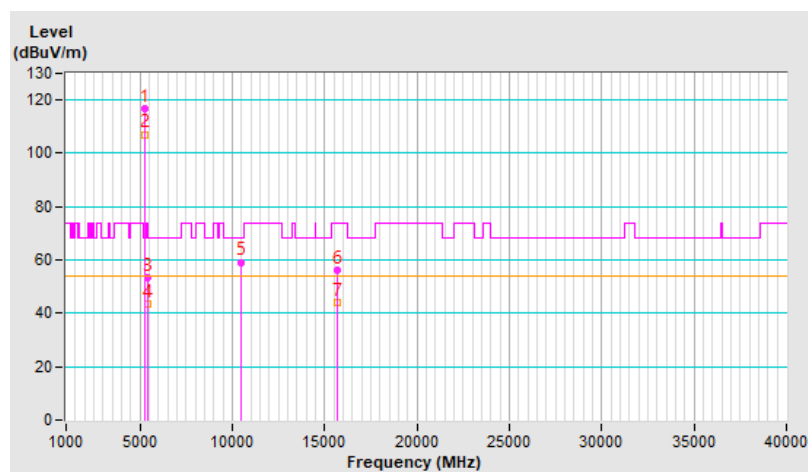


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.0 PK			1.45 H	163	111.8	5.2
2	*5240.00	107.1 AV			1.45 H	163	101.9	5.2
3	5396.20	53.3 PK	74.0	-20.7	1.45 H	163	47.8	5.5
4	5396.20	43.3 AV	54.0	-10.7	1.45 H	163	37.8	5.5
5	#10480.00	59.2 PK	68.2	-9.0	1.47 H	208	43.4	15.8
6	15720.00	56.4 PK	74.0	-17.6	1.43 H	18	39.8	16.6
7	15720.00	44.3 AV	54.0	-9.7	1.43 H	18	27.7	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.

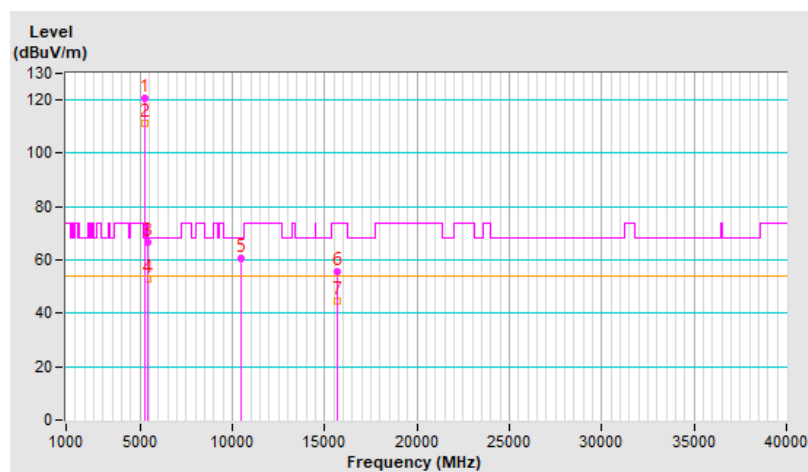


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	120.8 PK			1.80 V	236	115.6	5.2
2	*5240.00	111.2 AV			1.80 V	236	106.0	5.2
3	5396.20	66.4 PK	74.0	-7.6	1.80 V	236	60.9	5.5
4	5396.20	53.1 AV	54.0	-0.9	1.80 V	236	47.6	5.5
5	#10480.00	60.4 PK	68.2	-7.8	1.35 V	166	44.6	15.8
6	15720.00	55.8 PK	74.0	-18.2	1.52 V	143	39.2	16.6
7	15720.00	44.7 AV	54.0	-9.3	1.52 V	143	28.1	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.

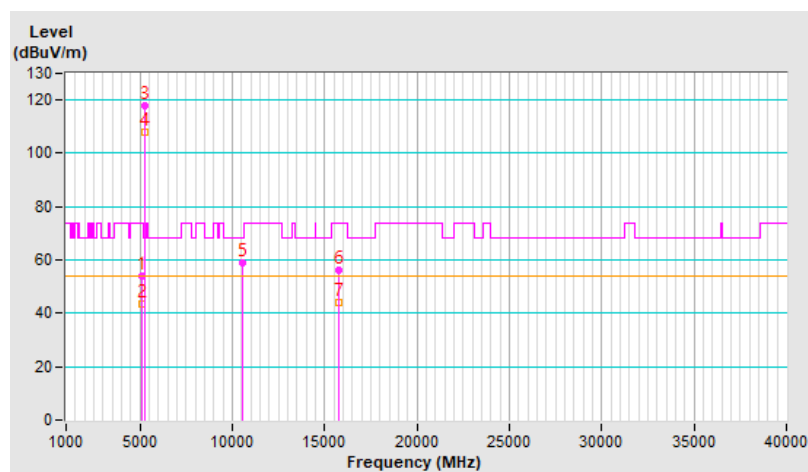


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5100.00	54.2 PK	74.0	-19.8	1.44 H	154	48.7	5.5
2	5100.00	43.6 AV	54.0	-10.4	1.44 H	154	38.1	5.5
3	*5260.00	118.0 PK			1.44 H	154	112.8	5.2
4	*5260.00	107.7 AV			1.44 H	154	102.5	5.2
5	#10520.00	58.8 PK	68.2	-9.4	1.53 H	216	42.8	16.0
6	15780.00	56.4 PK	74.0	-17.6	1.39 H	31	39.7	16.7
7	15780.00	44.1 AV	54.0	-9.9	1.39 H	31	27.4	16.7

Remarks:

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

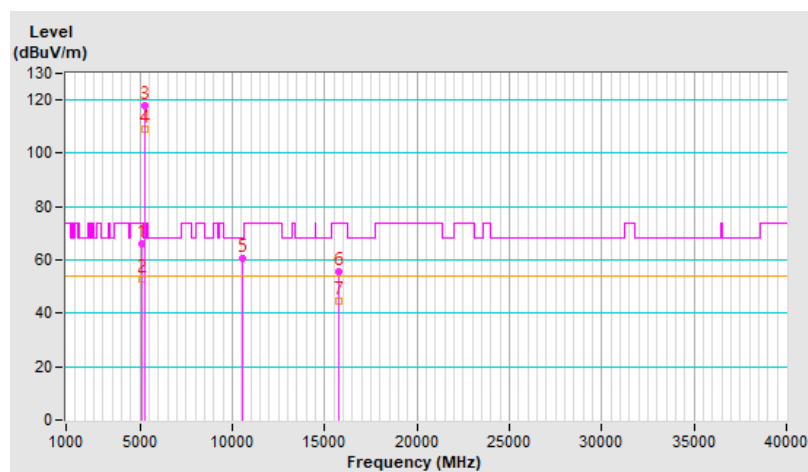


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5100.00	66.2 PK	74.0	-7.8	1.82 V	228	60.7	5.5
2	5100.00	52.8 AV	54.0	-1.2	1.82 V	228	47.3	5.5
3	*5260.00	118.1 PK			1.82 V	228	112.9	5.2
4	*5260.00	109.2 AV			1.82 V	228	104.0	5.2
5	#10520.00	60.4 PK	68.2	-7.8	1.35 V	166	44.4	16.0
6	15780.00	55.8 PK	74.0	-18.2	1.52 V	143	39.1	16.7
7	15780.00	44.7 AV	54.0	-9.3	1.52 V	143	28.0	16.7

Remarks:

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

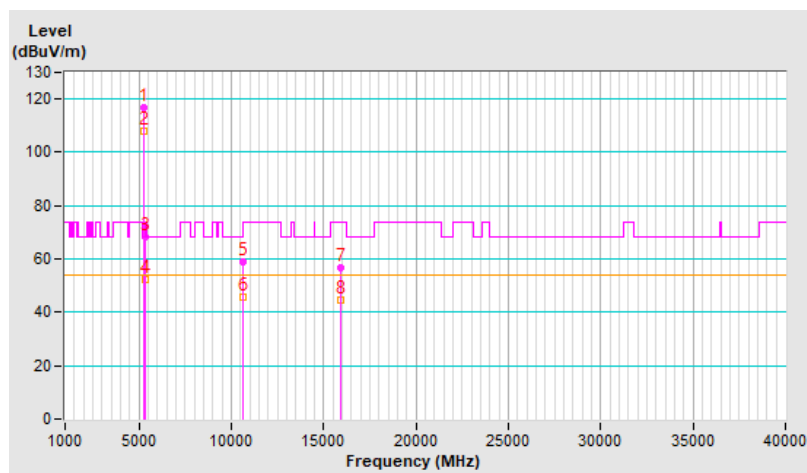


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	116.8 PK			1.44 H	174	111.6	5.2
2	*5300.00	107.7 AV			1.44 H	174	102.5	5.2
3	5353.60	68.4 PK	74.0	-5.6	1.44 H	174	62.9	5.5
4	5353.60	52.4 AV	54.0	-1.6	1.44 H	174	46.9	5.5
5	10600.00	58.8 PK	74.0	-15.2	1.44 H	194	43.0	15.8
6	10600.00	45.6 AV	54.0	-8.4	1.44 H	194	29.8	15.8
7	15900.00	56.7 PK	74.0	-17.3	1.47 H	16	40.3	16.4
8	15900.00	44.4 AV	54.0	-9.6	1.47 H	16	28.0	16.4

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.

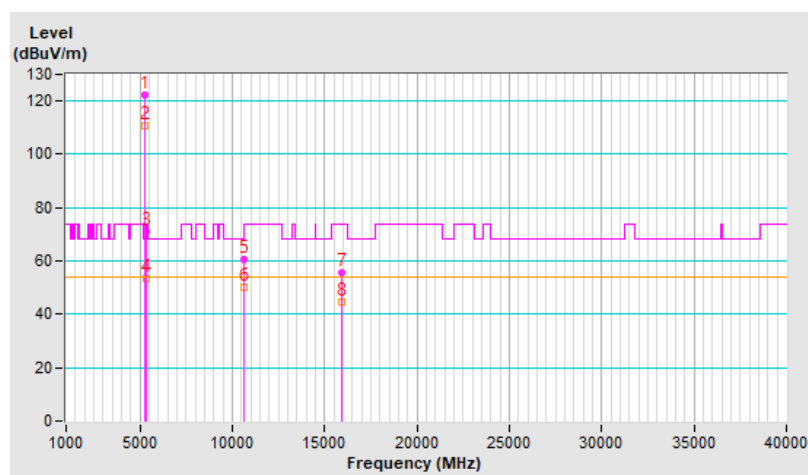


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	122.2 PK			2.08 V	228	117.0	5.2
2	*5300.00	110.8 AV			2.08 V	228	105.6	5.2
3	5353.60	71.0 PK	74.0	-3.0	2.08 V	228	65.5	5.5
4	5353.60	53.2 AV	54.0	-0.8	2.08 V	228	47.7	5.5
5	10600.00	60.4 PK	74.0	-13.6	1.35 V	166	44.6	15.8
6	10600.00	49.9 AV	54.0	-4.1	1.35 V	166	34.1	15.8
7	15900.00	55.8 PK	74.0	-18.2	1.52 V	143	39.4	16.4
8	15900.00	44.7 AV	54.0	-9.3	1.52 V	143	28.3	16.4

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.

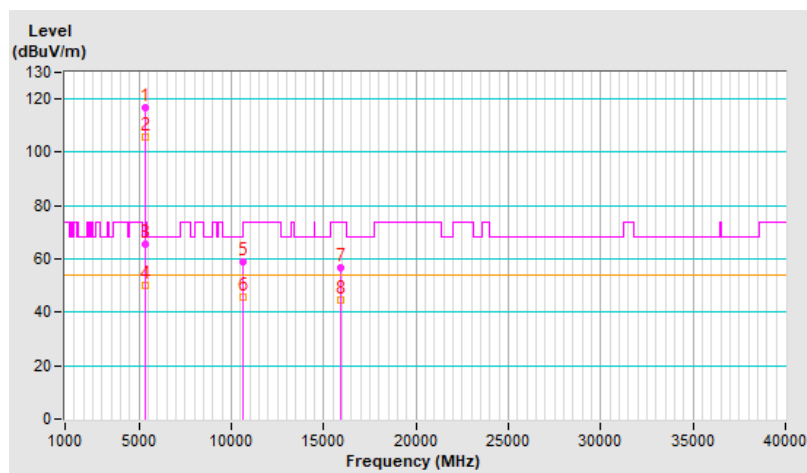


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	116.8 PK			2.52 H	104	111.5	5.3
2	*5320.00	105.9 AV			2.52 H	104	100.6	5.3
3	5356.50	65.4 PK	74.0	-8.6	2.52 H	104	59.9	5.5
4	5356.50	50.1 AV	54.0	-3.9	2.52 H	104	44.6	5.5
5	10640.00	58.8 PK	74.0	-15.2	1.45 H	216	42.8	16.0
6	10640.00	45.7 AV	54.0	-8.3	1.45 H	216	29.7	16.0
7	15960.00	56.5 PK	74.0	-17.5	1.38 H	29	39.6	16.9
8	15960.00	44.4 AV	54.0	-9.6	1.38 H	29	27.5	16.9

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.

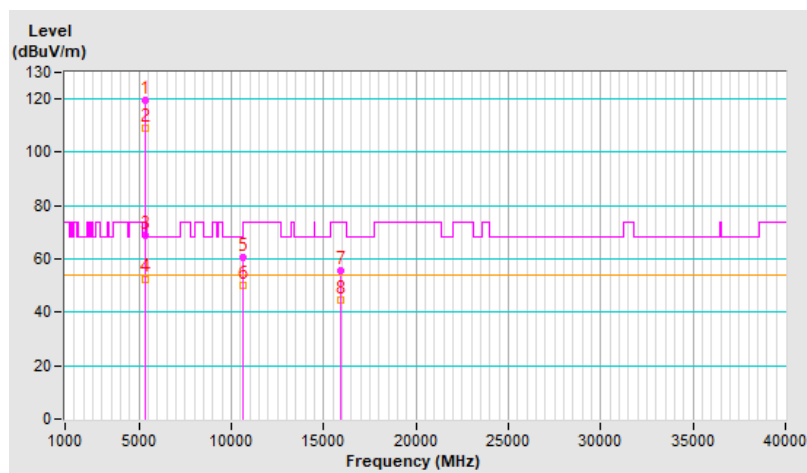


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	119.6 PK			2.25 V	230	114.3	5.3
2	*5320.00	109.3 AV			2.25 V	230	104.0	5.3
3	5356.50	68.6 PK	74.0	-5.4	2.25 V	230	63.1	5.5
4	5356.50	52.6 AV	54.0	-1.4	2.25 V	230	47.1	5.5
5	10640.00	60.4 PK	74.0	-13.6	1.35 V	166	44.4	16.0
6	10640.00	49.9 AV	54.0	-4.1	1.35 V	166	33.9	16.0
7	15960.00	55.8 PK	74.0	-18.2	1.52 V	143	38.9	16.9
8	15960.00	44.7 AV	54.0	-9.3	1.52 V	143	27.8	16.9

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.

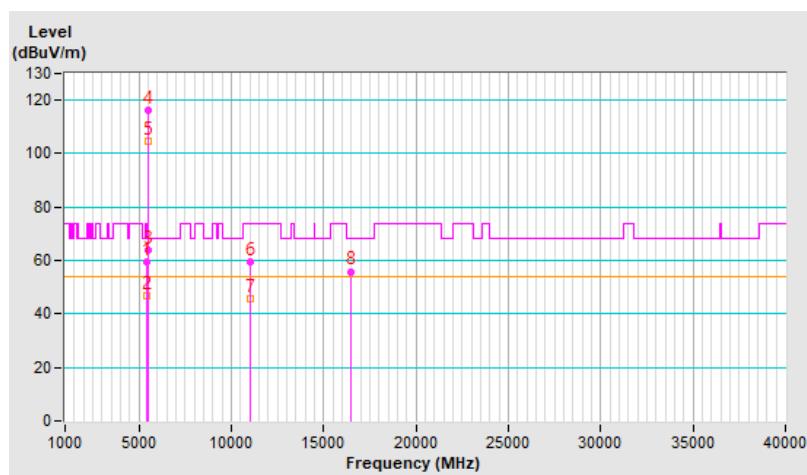


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	59.4 PK	74.0	-14.6	1.83 H	123	53.8	5.6
2	5460.00	46.8 AV	54.0	-7.2	1.83 H	123	41.2	5.6
3	#5470.00	63.8 PK	68.2	-4.4	1.83 H	123	58.2	5.6
4	*5500.00	116.4 PK			1.83 H	123	110.7	5.7
5	*5500.00	104.5 AV			1.83 H	123	98.8	5.7
6	11000.00	59.3 PK	74.0	-14.7	1.44 H	209	42.7	16.6
7	11000.00	45.8 AV	54.0	-8.2	1.44 H	209	29.2	16.6
8	#16500.00	55.9 PK	68.2	-12.3	1.43 H	24	37.1	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.

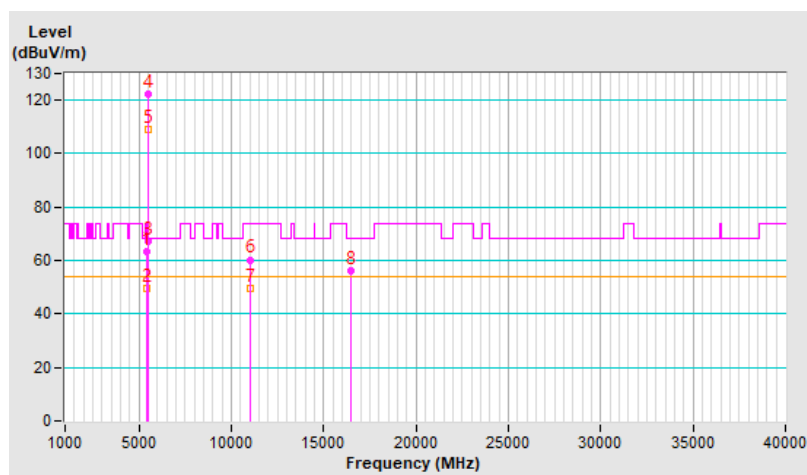


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	1.84 V	223	57.5	5.6
2	5460.00	49.8 AV	54.0	-4.2	1.84 V	223	44.2	5.6
3	#5470.00	67.3 PK	68.2	-0.9	1.84 V	223	61.7	5.6
4	*5500.00	122.1 PK			1.84 V	223	116.4	5.7
5	*5500.00	109.1 AV			1.84 V	223	103.4	5.7
6	11000.00	60.3 PK	74.0	-13.7	1.38 V	164	43.7	16.6
7	11000.00	49.7 AV	54.0	-4.3	1.38 V	164	33.1	16.6
8	#16500.00	56.1 PK	68.2	-12.1	1.52 V	164	37.3	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.

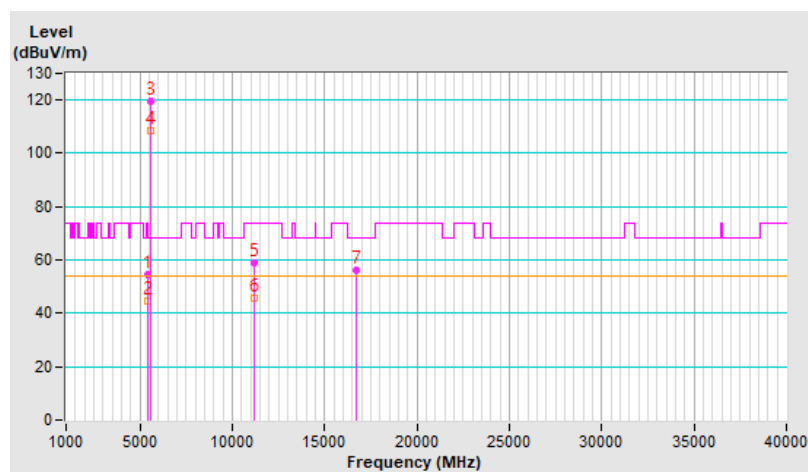


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5420.00	54.5 PK	74.0	-19.5	1.69 H	343	49.0	5.5
2	5420.00	44.4 AV	54.0	-9.6	1.69 H	343	38.9	5.5
3	*5580.00	119.4 PK			1.69 H	343	113.8	5.6
4	*5580.00	108.6 AV			1.69 H	343	103.0	5.6
5	11160.00	59.0 PK	74.0	-15.0	1.46 H	199	43.0	16.0
6	11160.00	45.5 AV	54.0	-8.5	1.46 H	199	29.5	16.0
7	#16740.00	56.4 PK	68.2	-11.8	1.43 H	22	35.5	20.9

Remarks:

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

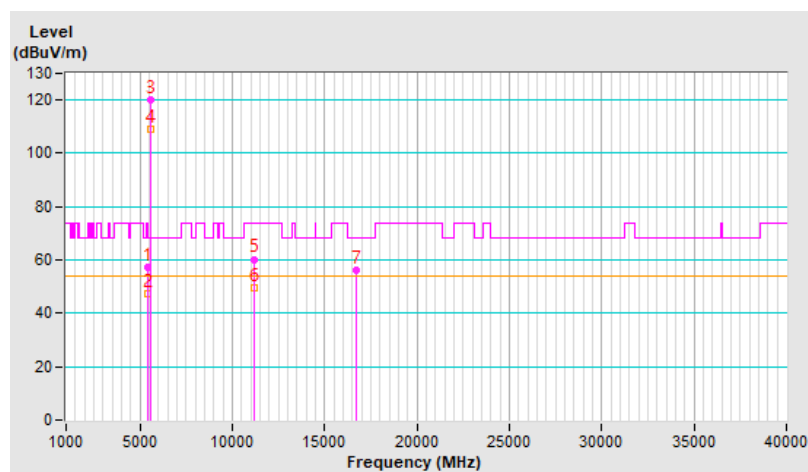


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5420.00	57.4 PK	74.0	-16.6	1.76 V	228	51.9	5.5
2	5420.00	47.6 AV	54.0	-6.4	1.76 V	228	42.1	5.5
3	*5580.00	120.0 PK			1.76 V	228	114.4	5.6
4	*5580.00	109.1 AV			1.76 V	228	103.5	5.6
5	11160.00	60.3 PK	74.0	-13.7	1.38 V	164	44.3	16.0
6	11160.00	49.7 AV	54.0	-4.3	1.38 V	164	33.7	16.0
7	#16740.00	56.1 PK	68.2	-12.1	1.52 V	164	35.2	20.9

Remarks:

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

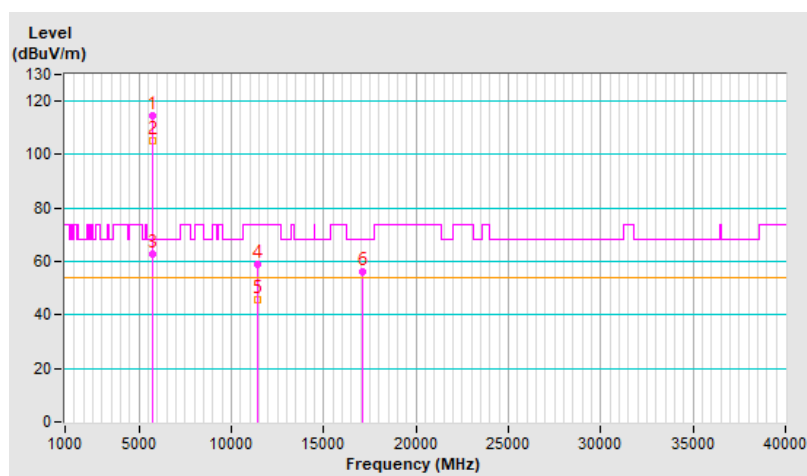


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	114.6 PK			1.70 H	341	108.9	5.7
2	*5700.00	105.1 AV			1.70 H	341	99.4	5.7
3	#5725.00	63.0 PK	68.2	-5.2	1.70 H	341	57.2	5.8
4	11400.00	59.0 PK	74.0	-15.0	1.46 H	196	42.3	16.7
5	11400.00	45.8 AV	54.0	-8.2	1.46 H	196	29.1	16.7
6	#17100.00	56.0 PK	68.2	-12.2	1.41 H	19	34.4	21.6

Remarks:

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

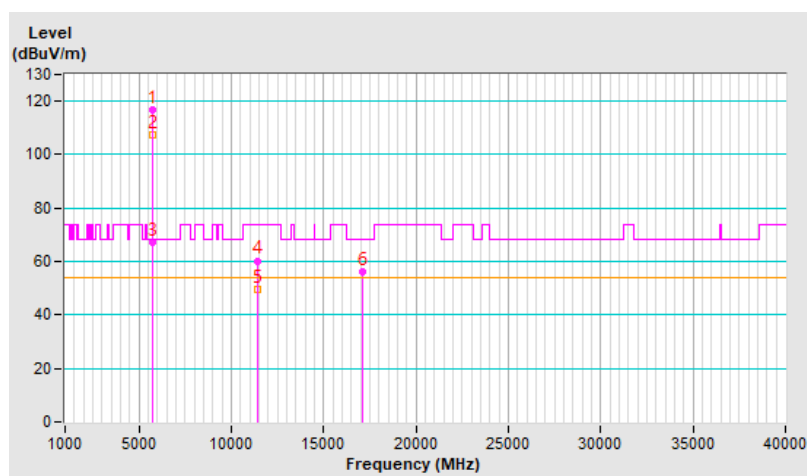


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.7 PK			1.50 V	224	111.0	5.7
2	*5700.00	107.2 AV			1.50 V	224	101.5	5.7
3	#5725.00	67.4 PK	68.2	-0.8	1.50 V	224	61.6	5.8
4	11400.00	60.3 PK	74.0	-13.7	1.38 V	164	43.6	16.7
5	11400.00	49.7 AV	54.0	-4.3	1.38 V	164	33.0	16.7
6	#17100.00	56.1 PK	68.2	-12.1	1.52 V	164	34.5	21.6

Remarks:

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

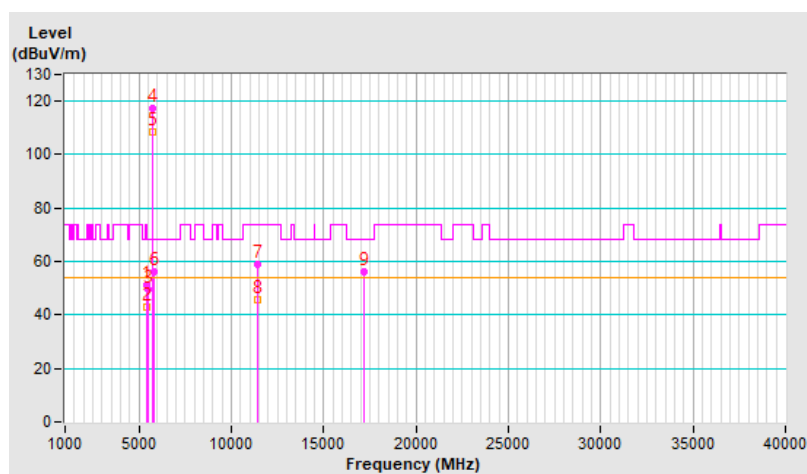


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5400.00	51.4 PK	74.0	-22.6	1.75 H	343	45.9	5.5
2	5400.00	42.7 AV	54.0	-11.3	1.75 H	343	37.2	5.5
3	#5470.00	49.8 PK	68.2	-18.4	1.75 H	343	44.2	5.6
4	*5720.00	117.4 PK			1.75 H	343	111.6	5.8
5	*5720.00	108.3 AV			1.75 H	343	102.5	5.8
6	#5850.00	56.0 PK	68.2	-12.2	1.75 H	343	49.5	6.5
7	11440.00	59.0 PK	74.0	-15.0	1.46 H	196	42.2	16.8
8	11440.00	45.8 AV	54.0	-8.2	1.46 H	196	29.0	16.8
9	#17160.00	56.0 PK	68.2	-12.2	1.41 H	19	34.7	21.3

Remarks:

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

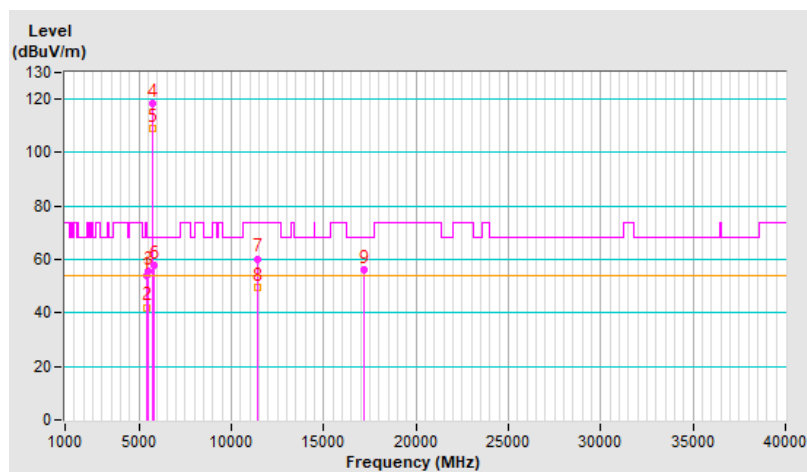


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5400.00	54.2 PK	74.0	-19.8	1.85 V	234	48.7	5.5
2	5400.00	42.1 AV	54.0	-11.9	1.85 V	234	36.6	5.5
3	#5470.00	55.6 PK	68.2	-12.6	1.85 V	234	50.0	5.6
4	*5720.00	118.6 PK			1.85 V	234	112.8	5.8
5	*5720.00	109.3 AV			1.85 V	234	103.5	5.8
6	#5850.00	57.9 PK	68.2	-10.3	1.85 V	234	51.4	6.5
7	11440.00	60.3 PK	74.0	-13.7	1.38 V	164	43.5	16.8
8	11440.00	49.7 AV	54.0	-4.3	1.38 V	164	32.9	16.8
9	#17160.00	56.1 PK	68.2	-12.1	1.52 V	164	34.8	21.3

Remarks:

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

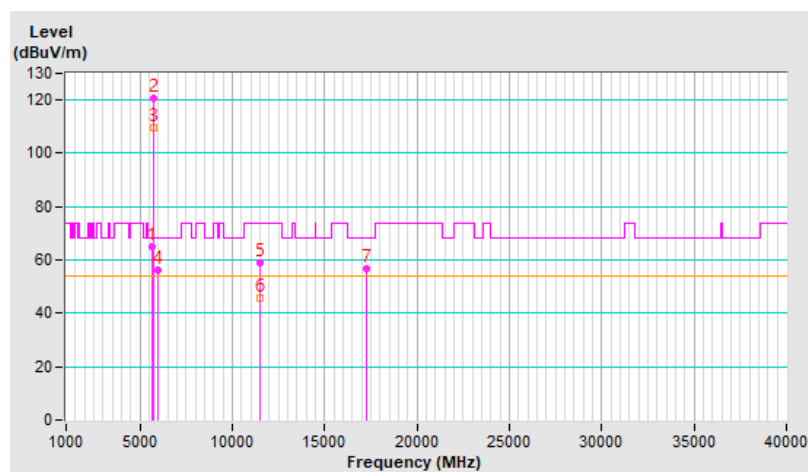


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5647.50	65.2 PK	68.2	-3.0	2.42 H	335	59.3	5.9
2	*5745.00	120.4 PK			2.42 H	335	114.6	5.8
3	*5745.00	109.4 AV			2.42 H	335	103.6	5.8
4	#5946.00	56.4 PK	68.2	-11.8	2.42 H	335	50.0	6.4
5	11490.00	58.9 PK	74.0	-15.1	1.43 H	195	42.0	16.9
6	11490.00	45.6 AV	54.0	-8.4	1.43 H	195	28.7	16.9
7	#17235.00	56.6 PK	68.2	-11.6	1.45 H	30	35.5	21.1

Remarks:

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

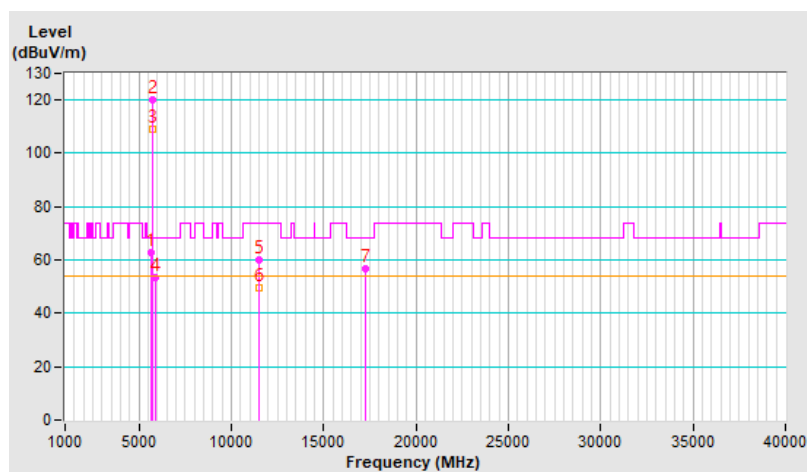


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5644.60	62.7 PK	68.2	-5.5	1.95 V	220	56.8	5.9
2	*5745.00	120.2 PK			1.95 V	220	114.4	5.8
3	*5745.00	109.1 AV			1.95 V	220	103.3	5.8
4	#5925.40	53.6 PK	68.2	-14.6	1.95 V	220	47.3	6.3
5	11490.00	60.2 PK	74.0	-13.8	1.31 V	163	43.3	16.9
6	11490.00	49.5 AV	54.0	-4.5	1.31 V	163	32.6	16.9
7	#17235.00	56.6 PK	68.2	-11.6	1.52 V	152	35.5	21.1

Remarks:

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

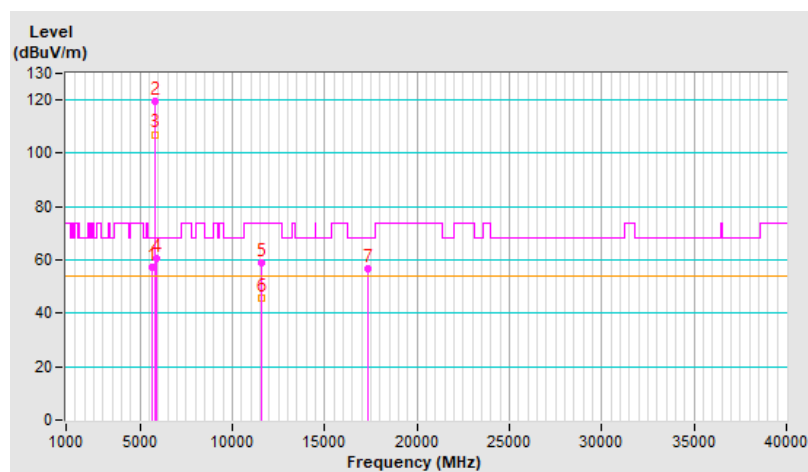


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5645.40	57.5 PK	68.2	-10.7	2.75 H	337	51.6	5.9
2	*5785.00	119.5 PK			2.75 H	337	113.3	6.2
3	*5785.00	107.1 AV			2.75 H	337	100.9	6.2
4	#5927.30	60.5 PK	68.2	-7.7	2.75 H	337	54.2	6.3
5	11570.00	58.9 PK	74.0	-15.1	1.43 H	195	42.2	16.7
6	11570.00	45.6 AV	54.0	-8.4	1.43 H	195	28.9	16.7
7	#17355.00	56.6 PK	68.2	-11.6	1.45 H	30	35.0	21.6

Remarks:

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

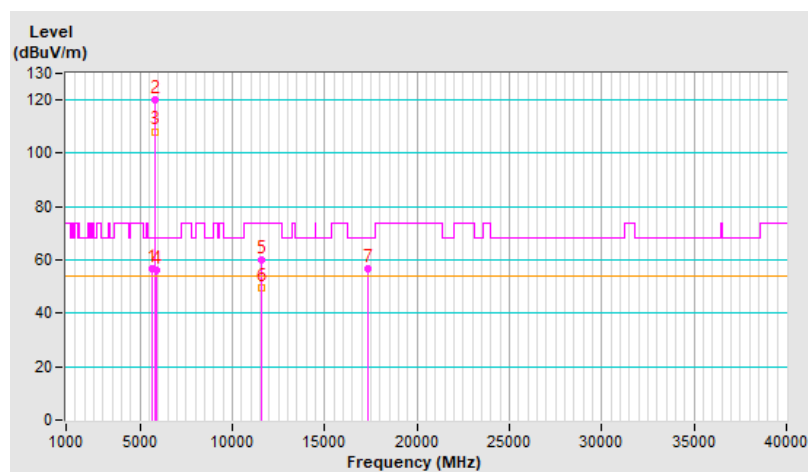


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	56.8 PK	68.2	-11.4	2.08 V	225	50.9	5.9
2	*5785.00	120.1 PK			2.08 V	225	113.9	6.2
3	*5785.00	108.2 AV			2.08 V	225	102.0	6.2
4	#5920.40	56.3 PK	68.2	-11.9	2.08 V	225	50.1	6.2
5	11570.00	60.2 PK	74.0	-13.8	1.31 V	163	43.5	16.7
6	11570.00	49.5 AV	54.0	-4.5	1.31 V	163	32.8	16.7
7	#17355.00	56.6 PK	68.2	-11.6	1.52 V	152	35.0	21.6

Remarks:

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

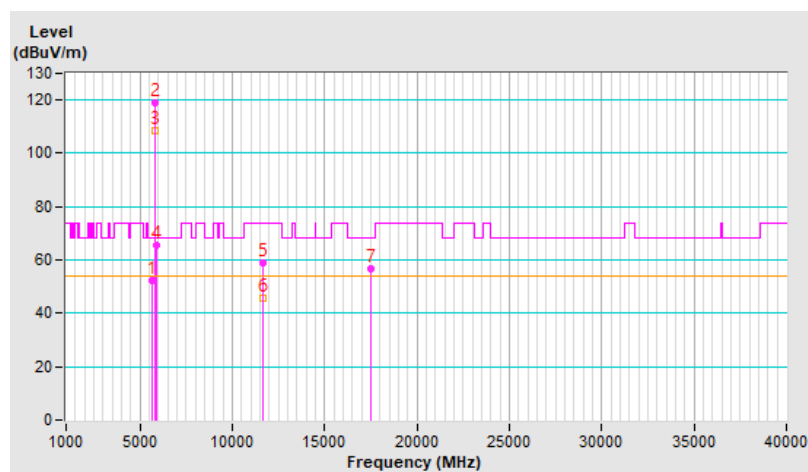


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5624.40	52.3 PK	68.2	-15.9	1.25 H	348	46.5	5.8
2	*5825.00	119.1 PK			1.25 H	348	112.7	6.4
3	*5825.00	108.6 AV			1.25 H	348	102.2	6.4
4	#5925.00	65.4 PK	68.2	-2.8	1.25 H	348	59.1	6.3
5	11650.00	58.9 PK	74.0	-15.1	1.43 H	195	42.4	16.5
6	11650.00	45.6 AV	54.0	-8.4	1.43 H	195	29.1	16.5
7	#17475.00	56.6 PK	68.2	-11.6	1.45 H	30	34.6	22.0

Remarks:

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

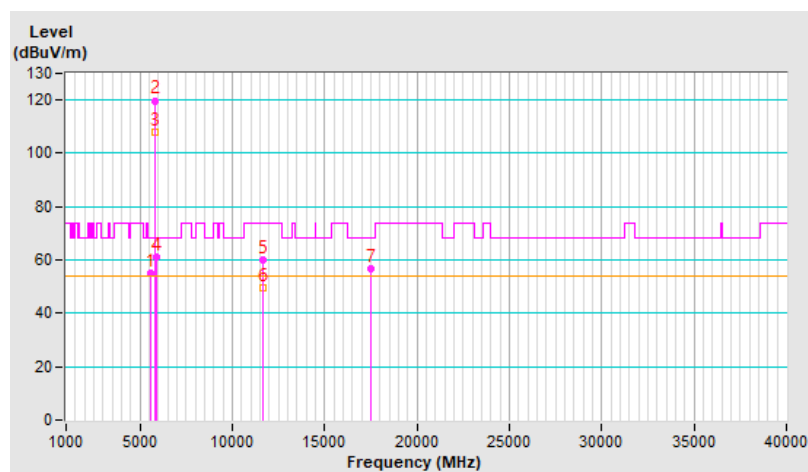


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5588.00	55.3 PK	68.2	-12.9	1.76 V	216	49.8	5.5
2	*5825.00	119.8 PK			1.76 V	216	113.4	6.4
3	*5825.00	107.8 AV			1.76 V	216	101.4	6.4
4	#5928.20	60.9 PK	68.2	-7.3	1.76 V	216	54.6	6.3
5	11650.00	60.2 PK	74.0	-13.8	1.31 V	163	43.7	16.5
6	11650.00	49.5 AV	54.0	-4.5	1.31 V	163	33.0	16.5
7	#17475.00	56.6 PK	68.2	-11.6	1.52 V	152	34.6	22.0

Remarks:

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

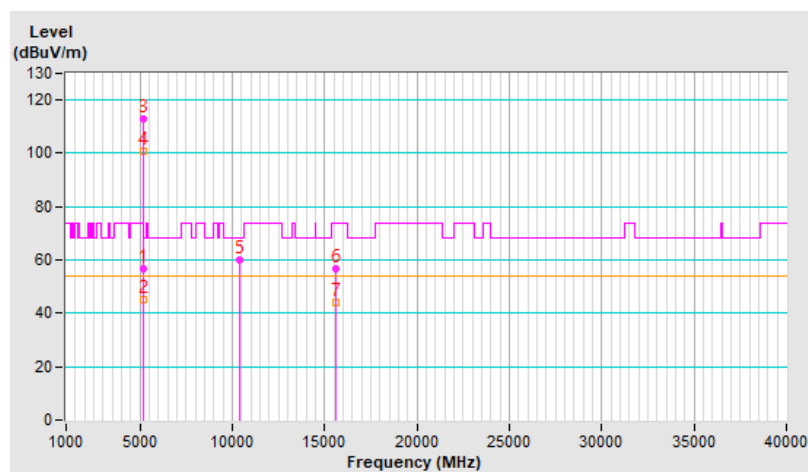


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.80	56.5 PK	74.0	-17.5	1.82 H	122	50.9	5.6
2	5148.80	45.4 AV	54.0	-8.6	1.82 H	122	39.8	5.6
3	*5190.00	113.1 PK			1.82 H	122	107.5	5.6
4	*5190.00	100.9 AV			1.82 H	122	95.3	5.6
5	#10380.00	59.8 PK	68.2	-8.4	1.52 H	216	44.2	15.6
6	15570.00	56.5 PK	74.0	-17.5	1.41 H	18	40.0	16.5
7	15570.00	44.3 AV	54.0	-9.7	1.41 H	18	27.8	16.5

Remarks:

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

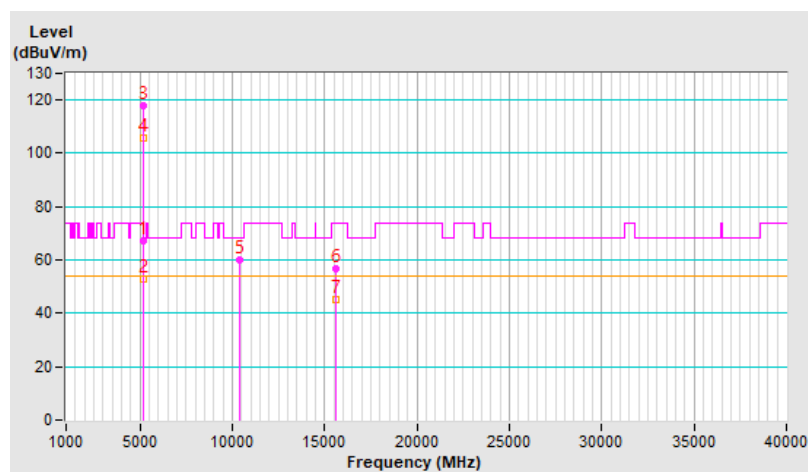


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.80	67.1 PK	74.0	-6.9	1.82 V	228	61.5	5.6
2	5148.80	52.7 AV	54.0	-1.3	1.82 V	228	47.1	5.6
3	*5190.00	118.0 PK			1.82 V	228	112.4	5.6
4	*5190.00	105.8 AV			1.82 V	228	100.2	5.6
5	#10380.00	60.2 PK	68.2	-8.0	1.31 V	163	44.6	15.6
6	15570.00	56.6 PK	74.0	-17.4	1.52 V	152	40.1	16.5
7	15570.00	45.0 AV	54.0	-9.0	1.52 V	152	28.5	16.5

Remarks:

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

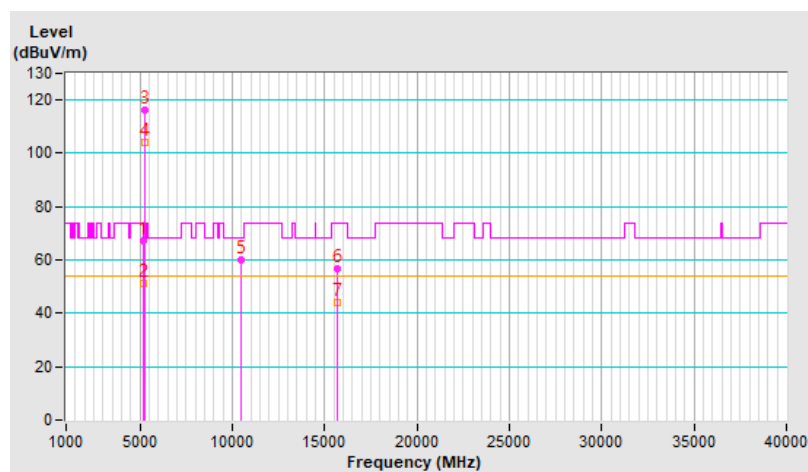


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5149.00	67.0 PK	74.0	-7.0	1.55 H	160	61.4	5.6
2	5149.00	51.1 AV	54.0	-2.9	1.55 H	160	45.5	5.6
3	*5230.00	116.0 PK			1.55 H	160	110.6	5.4
4	*5230.00	103.9 AV			1.55 H	160	98.5	5.4
5	#10460.00	59.8 PK	68.2	-8.4	1.52 H	216	44.0	15.8
6	15690.00	56.5 PK	74.0	-17.5	1.41 H	18	39.9	16.6
7	15690.00	44.3 AV	54.0	-9.7	1.41 H	18	27.7	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.

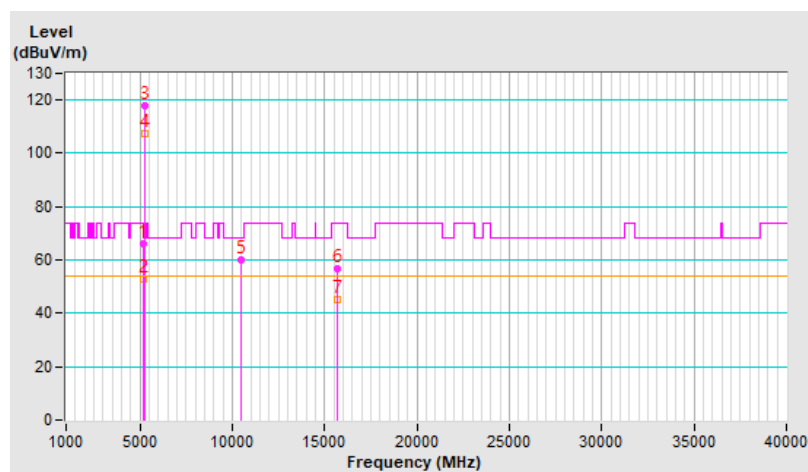


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5149.00	66.3 PK	74.0	-7.7	1.86 V	229	60.7	5.6
2	5149.00	52.8 AV	54.0	-1.2	1.86 V	229	47.2	5.6
3	*5230.00	118.0 PK			1.86 V	229	112.6	5.4
4	*5230.00	107.5 AV			1.86 V	229	102.1	5.4
5	#10460.00	60.2 PK	68.2	-8.0	1.31 V	163	44.4	15.8
6	15690.00	56.6 PK	74.0	-17.4	1.52 V	152	40.0	16.6
7	15690.00	45.0 AV	54.0	-9.0	1.52 V	152	28.4	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.

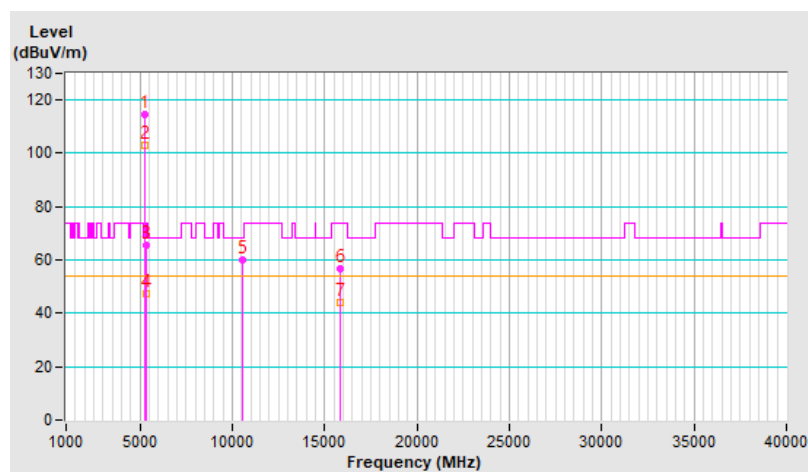


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	*5270.00	114.7 PK			1.50 H	173	109.5	5.2
2	*5270.00	103.2 AV			1.50 H	173	98.0	5.2
3	5352.40	65.6 PK	74.0	-8.4	1.50 H	173	60.1	5.5
4	5352.40	47.6 AV	54.0	-6.4	1.50 H	173	42.1	5.5
5	#10540.00	59.8 PK	68.2	-8.4	1.52 H	216	44.0	15.8
6	15810.00	56.5 PK	74.0	-17.5	1.41 H	18	39.8	16.7
7	15810.00	44.3 AV	54.0	-9.7	1.41 H	18	27.6	16.7

Remarks:

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

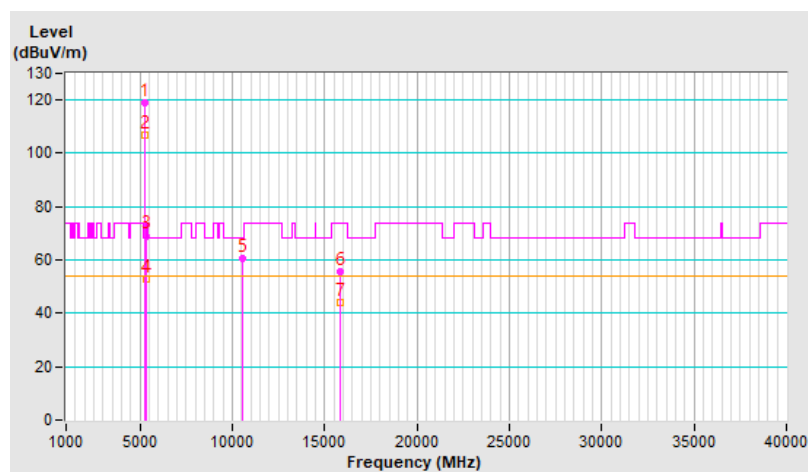


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	*5270.00	118.8 PK			1.76 V	229	113.6	5.2
2	*5270.00	106.8 AV			1.76 V	229	101.6	5.2
3	5352.40	69.1 PK	74.0	-4.9	1.76 V	229	63.6	5.5
4	5352.40	52.7 AV	54.0	-1.3	1.76 V	229	47.2	5.5
5	#10540.00	60.6 PK	68.2	-7.6	1.40 V	148	44.8	15.8
6	15810.00	55.4 PK	74.0	-18.6	1.46 V	142	38.7	16.7
7	15810.00	44.1 AV	54.0	-9.9	1.46 V	142	27.4	16.7

Remarks:

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

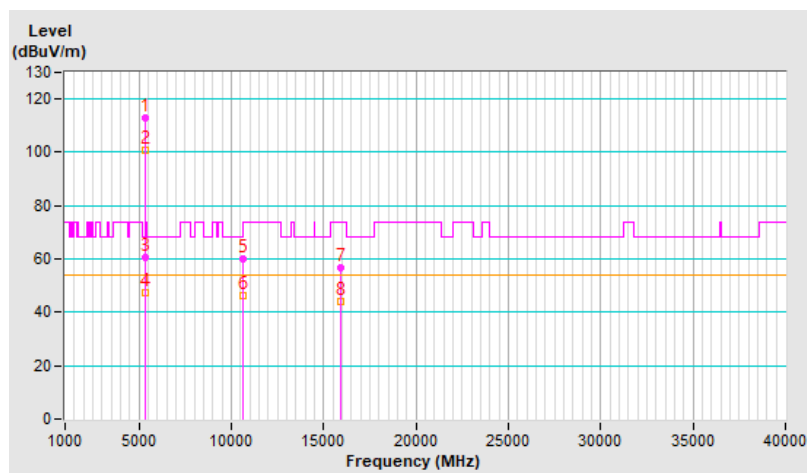


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	113.1 PK			3.04 H	141	107.9	5.2
2	*5310.00	100.9 AV			3.04 H	141	95.7	5.2
3	5350.00	60.5 PK	74.0	-13.5	3.04 H	141	55.0	5.5
4	5350.00	47.5 AV	54.0	-6.5	3.04 H	141	42.0	5.5
5	10620.00	59.8 PK	74.0	-14.2	1.52 H	216	43.9	15.9
6	10620.00	46.2 AV	54.0	-7.8	1.52 H	216	30.3	15.9
7	15930.00	56.5 PK	74.0	-17.5	1.41 H	18	39.9	16.6
8	15930.00	44.3 AV	54.0	-9.7	1.41 H	18	27.7	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.

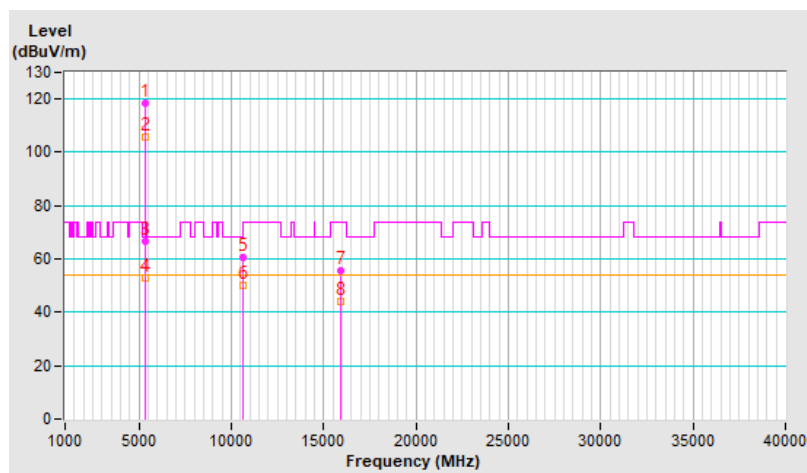


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	118.5 PK			1.83 V	231	113.3	5.2
2	*5310.00	105.9 AV			1.83 V	231	100.7	5.2
3	5350.00	66.7 PK	74.0	-7.3	1.83 V	231	61.2	5.5
4	5350.00	52.9 AV	54.0	-1.1	1.83 V	231	47.4	5.5
5	10620.00	60.6 PK	74.0	-13.4	1.40 V	148	44.7	15.9
6	10620.00	50.0 AV	54.0	-4.0	1.40 V	148	34.1	15.9
7	15930.00	55.4 PK	74.0	-18.6	1.46 V	142	38.8	16.6
8	15930.00	44.1 AV	54.0	-9.9	1.46 V	142	27.5	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.

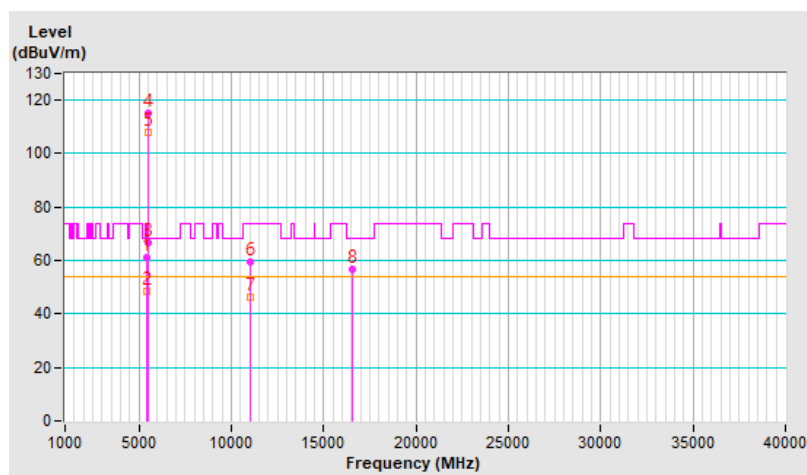


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	61.2 PK	74.0	-12.8	2.04 H	339	55.6	5.6
2	5460.00	48.2 AV	54.0	-5.8	2.04 H	339	42.6	5.6
3	#5470.00	66.7 PK	68.2	-1.5	2.04 H	339	61.1	5.6
4	*5510.00	115.1 PK			2.04 H	339	109.4	5.7
5	*5510.00	107.8 AV			2.04 H	339	102.1	5.7
6	11020.00	59.6 PK	74.0	-14.4	1.46 H	215	43.2	16.4
7	11020.00	46.1 AV	54.0	-7.9	1.46 H	215	29.7	16.4
8	#16530.00	56.6 PK	68.2	-11.6	1.47 H	5	37.4	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.

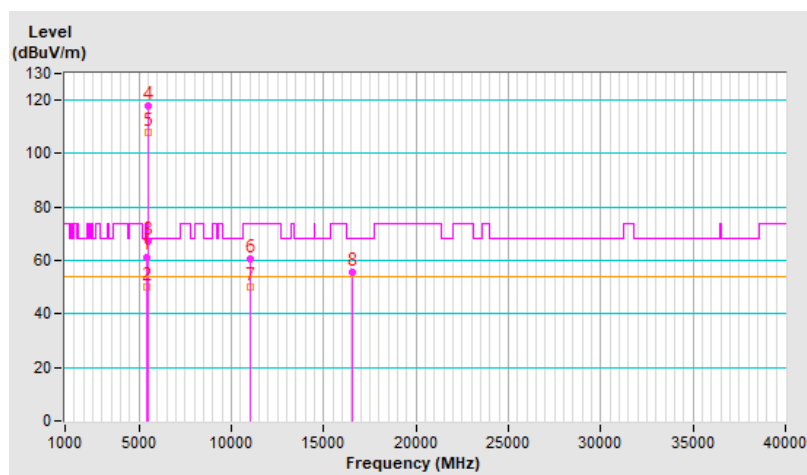


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.4 PK	74.0	-12.6	1.87 V	225	55.8	5.6
2	5460.00	50.2 AV	54.0	-3.8	1.87 V	225	44.6	5.6
3	#5470.00	67.1 PK	68.2	-1.1	1.87 V	225	61.5	5.6
4	*5510.00	117.7 PK			1.87 V	225	112.0	5.7
5	*5510.00	108.1 AV			1.87 V	225	102.4	5.7
6	11020.00	60.6 PK	74.0	-13.4	1.40 V	148	44.2	16.4
7	11020.00	50.0 AV	54.0	-4.0	1.40 V	148	33.6	16.4
8	#16530.00	55.4 PK	68.2	-12.8	1.46 V	142	36.2	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.

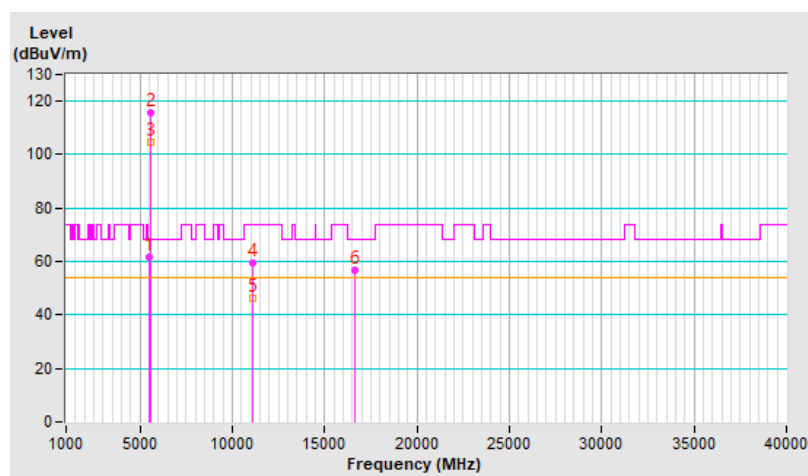


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5466.40	61.8 PK	68.2	-6.4	1.83 H	348	56.2	5.6
2	*5550.00	115.5 PK			1.83 H	348	109.9	5.6
3	*5550.00	104.4 AV			1.83 H	348	98.8	5.6
4	11100.00	59.6 PK	74.0	-14.4	1.46 H	215	43.6	16.0
5	11100.00	46.1 AV	54.0	-7.9	1.46 H	215	30.1	16.0
6	#16650.00	56.6 PK	68.2	-11.6	1.47 H	5	36.1	20.5

Remarks:

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

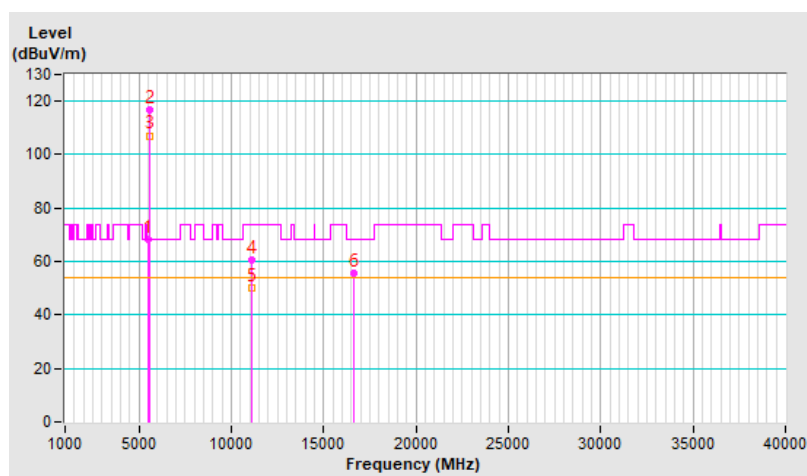


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5466.40	68.1 PK	68.2	-0.1	1.86 V	226	62.5	5.6
2	*5550.00	116.9 PK			1.86 V	226	111.3	5.6
3	*5550.00	107.1 AV			1.86 V	226	101.5	5.6
4	11100.00	60.6 PK	74.0	-13.4	1.37 V	164	44.6	16.0
5	11100.00	50.2 AV	54.0	-3.8	1.37 V	164	34.2	16.0
6	#16650.00	55.8 PK	68.2	-12.4	1.48 V	166	35.3	20.5

Remarks:

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

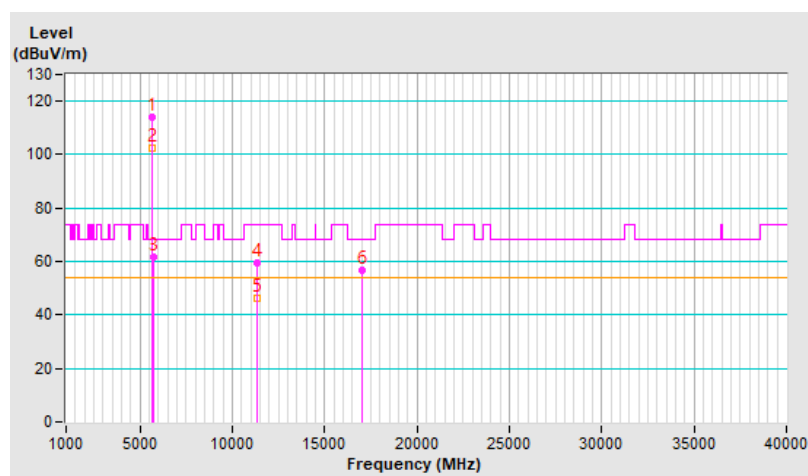


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	113.9 PK			1.79 H	332	108.2	5.7
2	*5670.00	102.2 AV			1.79 H	332	96.5	5.7
3	#5725.00	61.7 PK	68.2	-6.5	1.79 H	332	55.9	5.8
4	11340.00	59.6 PK	74.0	-14.4	1.46 H	215	43.0	16.6
5	11340.00	46.1 AV	54.0	-7.9	1.46 H	215	29.5	16.6
6	#17010.00	56.6 PK	68.2	-11.6	1.47 H	5	34.5	22.1

Remarks:

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

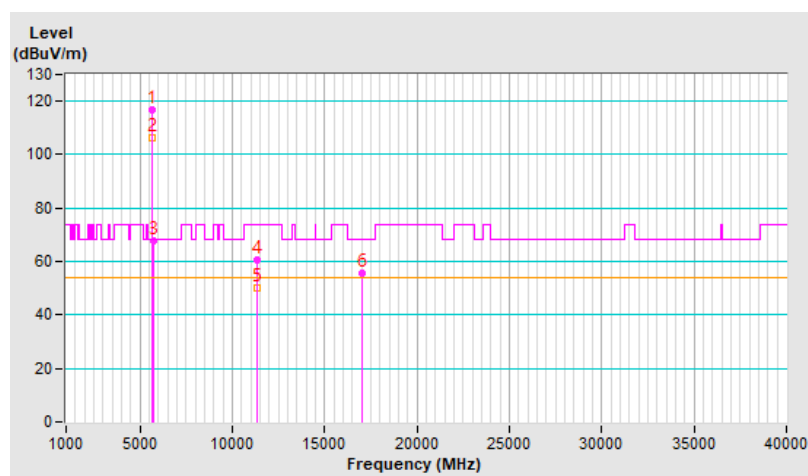


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	116.7 PK			1.91 V	226	111.0	5.7
2	*5670.00	106.1 AV			1.91 V	226	100.4	5.7
3	#5725.00	67.5 PK	68.2	-0.7	1.91 V	226	61.7	5.8
4	11340.00	60.6 PK	74.0	-13.4	1.37 V	164	44.0	16.6
5	11340.00	50.2 AV	54.0	-3.8	1.37 V	164	33.6	16.6
6	#17010.00	55.8 PK	68.2	-12.4	1.48 V	166	33.7	22.1

Remarks:

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

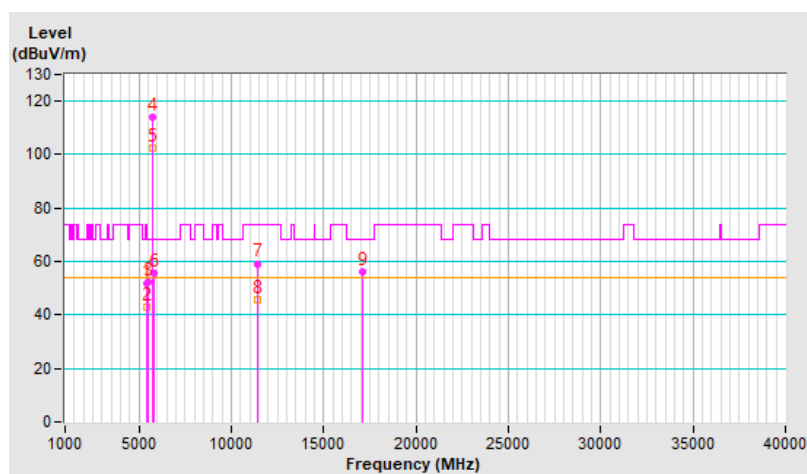


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5389.90	52.0 PK	74.0	-22.0	1.78 H	340	46.5	5.5
2	5389.90	42.9 AV	54.0	-11.1	1.78 H	340	37.4	5.5
3	#5470.00	52.1 PK	68.2	-16.1	1.78 H	340	46.5	5.6
4	*5710.00	114.1 PK			1.78 H	340	108.4	5.7
5	*5710.00	102.2 AV			1.78 H	340	96.5	5.7
6	#5850.00	55.6 PK	68.2	-12.6	1.78 H	340	49.1	6.5
7	11420.00	59.2 PK	74.0	-14.8	1.40 H	226	42.5	16.7
8	11420.00	45.6 AV	54.0	-8.4	1.40 H	226	28.9	16.7
9	#17130.00	56.3 PK	68.2	-11.9	1.43 H	0	34.8	21.5

Remarks:

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

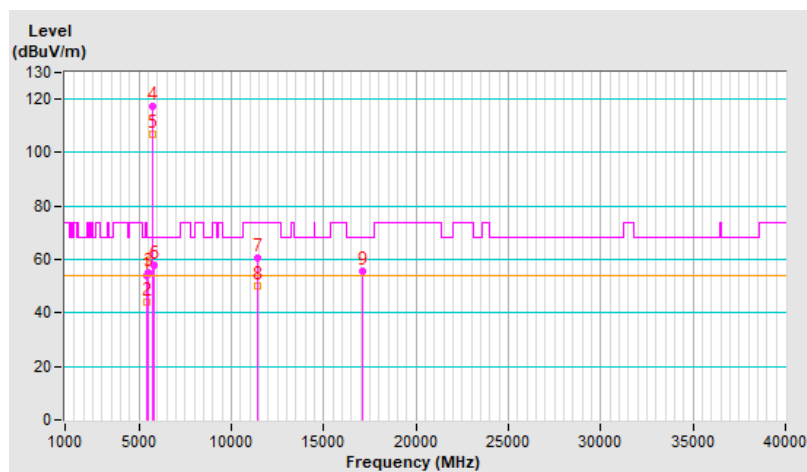


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5389.90	54.0 PK	74.0	-20.0	1.79 V	231	48.5	5.5
2	5389.90	44.1 AV	54.0	-9.9	1.79 V	231	38.6	5.5
3	#5470.00	54.9 PK	68.2	-13.3	1.79 V	231	49.3	5.6
4	*5710.00	117.5 PK			1.79 V	231	111.8	5.7
5	*5710.00	107.0 AV			1.79 V	231	101.3	5.7
6	#5850.00	58.0 PK	68.2	-10.2	1.79 V	231	51.5	6.5
7	11420.00	60.6 PK	74.0	-13.4	1.37 V	164	43.9	16.7
8	11420.00	50.2 AV	54.0	-3.8	1.37 V	164	33.5	16.7
9	#17130.00	55.8 PK	68.2	-12.4	1.48 V	166	34.3	21.5

Remarks:

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

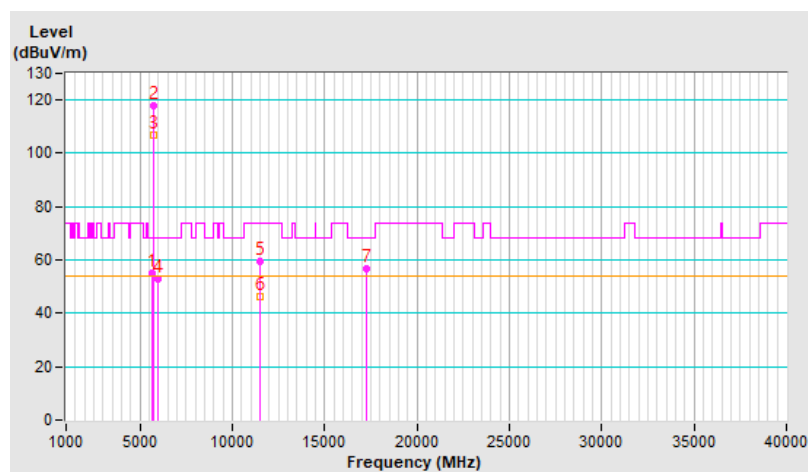


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5646.10	55.1 PK	68.2	-13.1	2.73 H	341	49.2	5.9
2	*5755.00	117.9 PK			2.73 H	341	112.1	5.8
3	*5755.00	106.8 AV			2.73 H	341	101.0	5.8
4	#5941.60	52.9 PK	68.2	-15.3	2.73 H	341	46.5	6.4
5	11510.00	59.4 PK	74.0	-14.6	1.46 H	212	42.5	16.9
6	11510.00	46.1 AV	54.0	-7.9	1.46 H	212	29.2	16.9
7	#17265.00	56.8 PK	68.2	-11.4	1.41 H	31	35.7	21.1

Remarks:

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

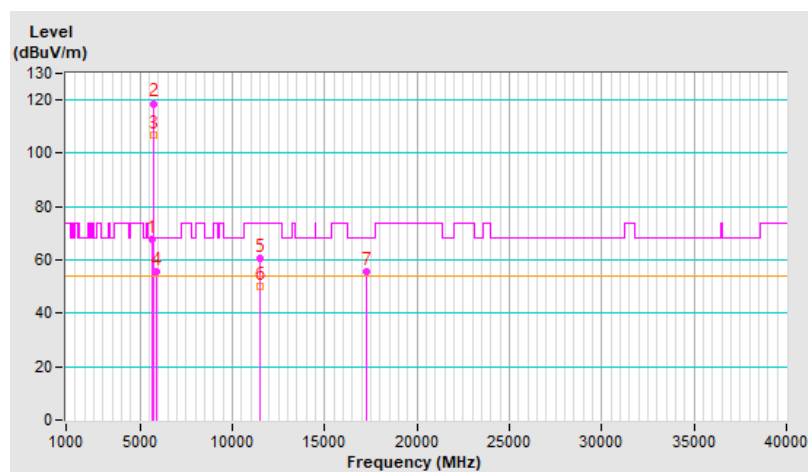


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5645.30	67.9 PK	68.2	-0.3	1.78 V	220	62.0	5.9
2	*5755.00	118.7 PK			1.78 V	220	112.9	5.8
3	*5755.00	106.9 AV			1.78 V	220	101.1	5.8
4	#5930.60	55.6 PK	68.2	-12.6	1.78 V	220	49.3	6.3
5	11510.00	60.6 PK	74.0	-13.4	1.37 V	164	43.7	16.9
6	11510.00	50.2 AV	54.0	-3.8	1.37 V	164	33.3	16.9
7	#17265.00	55.8 PK	68.2	-12.4	1.48 V	166	34.7	21.1

Remarks:

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

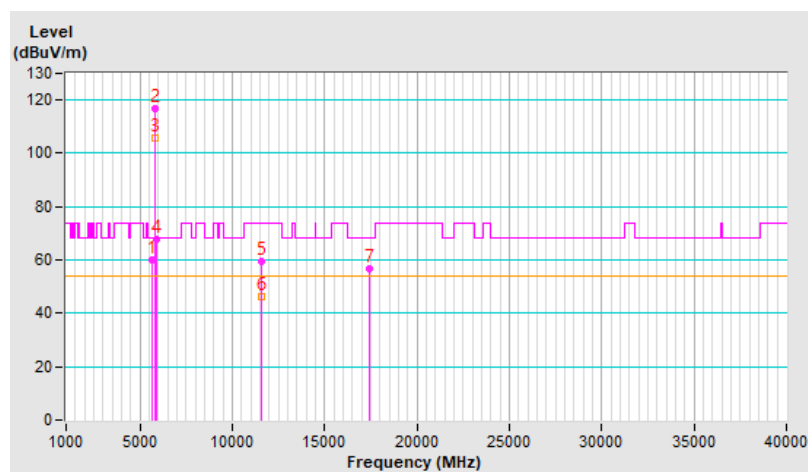


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5649.80	60.1 PK	68.2	-8.1	1.50 H	345	54.2	5.9
2	*5795.00	116.7 PK			1.50 H	345	110.4	6.3
3	*5795.00	105.8 AV			1.50 H	345	99.5	6.3
4	#5926.00	67.5 PK	68.2	-0.7	1.50 H	345	61.2	6.3
5	11590.00	59.4 PK	74.0	-14.6	1.46 H	212	42.8	16.6
6	11590.00	46.1 AV	54.0	-7.9	1.46 H	212	29.5	16.6
7	#17385.00	56.8 PK	68.2	-11.4	1.41 H	31	35.0	21.8

Remarks:

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

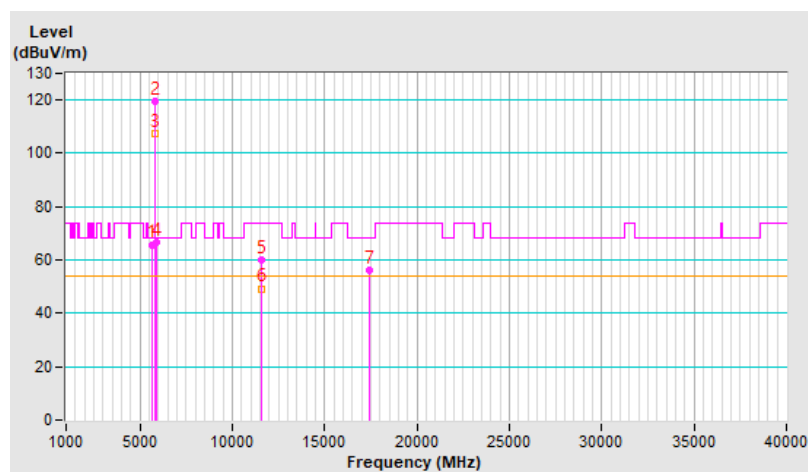


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.00	65.8 PK	68.2	-2.4	1.90 V	217	59.9	5.9
2	*5795.00	119.4 PK			1.90 V	217	113.1	6.3
3	*5795.00	107.6 AV			1.90 V	217	101.3	6.3
4	#5927.00	66.4 PK	68.2	-1.8	1.90 V	217	60.1	6.3
5	11590.00	59.8 PK	74.0	-14.2	1.38 V	148	43.2	16.6
6	11590.00	49.3 AV	54.0	-4.7	1.38 V	148	32.7	16.6
7	#17385.00	56.0 PK	68.2	-12.2	1.46 V	150	34.2	21.8

Remarks:

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

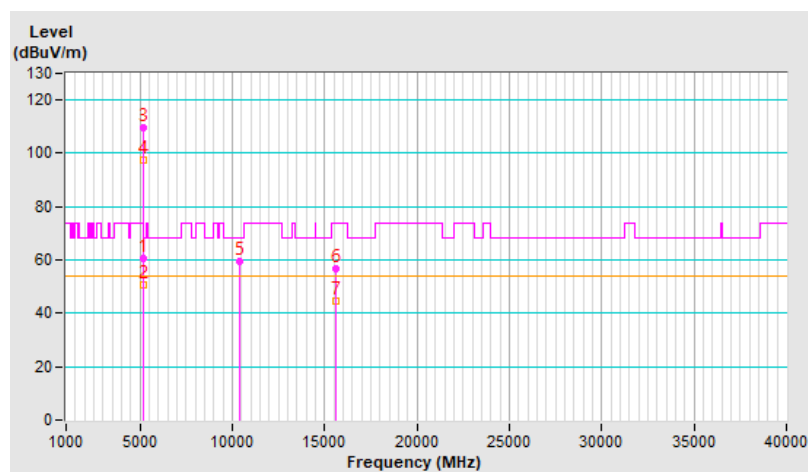


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	60.6 PK	74.0	-13.4	1.50 H	160	55.0	5.6
2	5150.00	50.5 AV	54.0	-3.5	1.50 H	160	44.9	5.6
3	*5210.00	109.7 PK			1.50 H	160	104.2	5.5
4	*5210.00	97.3 AV			1.50 H	160	91.8	5.5
5	#10420.00	59.4 PK	68.2	-8.8	1.46 H	212	43.7	15.7
6	15630.00	56.8 PK	74.0	-17.2	1.41 H	31	40.2	16.6
7	15630.00	44.8 AV	54.0	-9.2	1.41 H	31	28.2	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.

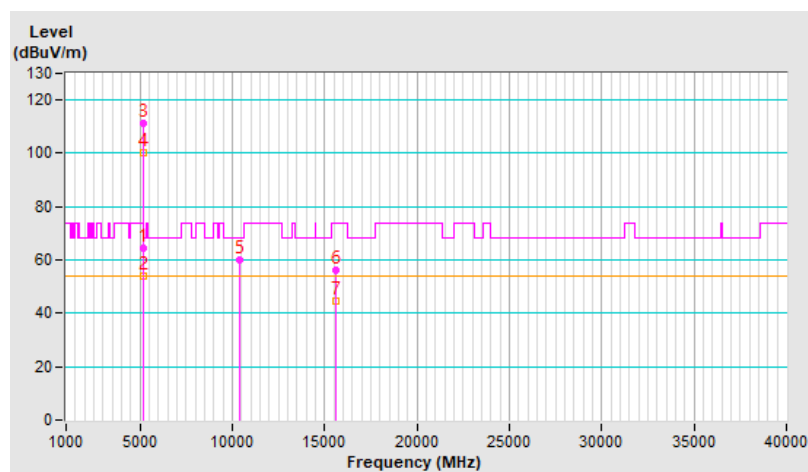


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5148.50	64.5 PK	74.0	-9.5	1.79 V	226	58.9	5.6
2	5148.50	53.9 AV	54.0	-0.1	1.79 V	226	48.3	5.6
3	*5210.00	111.1 PK			1.79 V	226	105.6	5.5
4	*5210.00	100.1 AV			1.79 V	226	94.6	5.5
5	#10420.00	59.8 PK	68.2	-8.4	1.38 V	148	44.1	15.7
6	15630.00	56.0 PK	74.0	-18.0	1.46 V	150	39.4	16.6
7	15630.00	44.6 AV	54.0	-9.4	1.46 V	150	28.0	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.

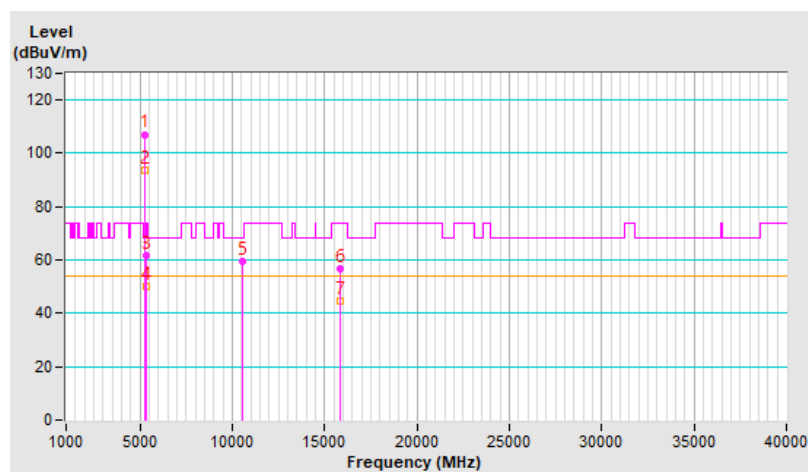


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	107.1 PK			1.33 H	163	101.9	5.2
2	*5290.00	93.5 AV			1.33 H	163	88.3	5.2
3	5353.90	61.8 PK	74.0	-12.2	1.33 H	163	56.3	5.5
4	5353.90	50.1 AV	54.0	-3.9	1.33 H	163	44.6	5.5
5	#10580.00	59.4 PK	68.2	-8.8	1.46 H	212	43.5	15.9
6	15870.00	56.8 PK	74.0	-17.2	1.41 H	31	40.3	16.5
7	15870.00	44.8 AV	54.0	-9.2	1.41 H	31	28.3	16.5

Remarks:

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

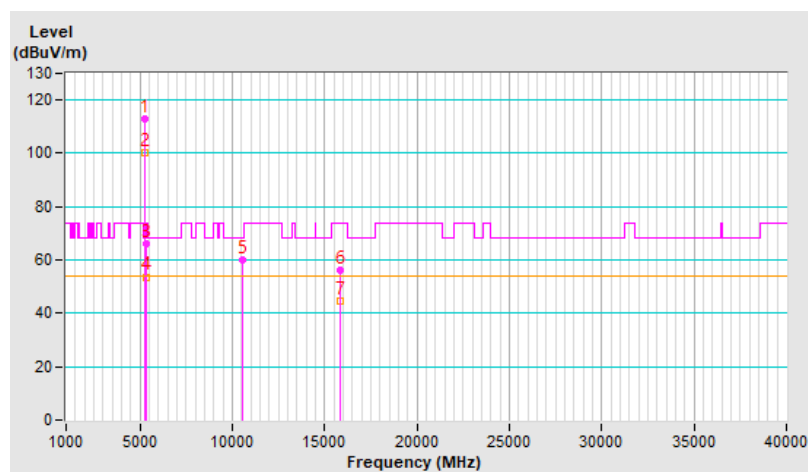


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	112.7 PK			1.81 V	229	107.5	5.2
2	*5290.00	100.1 AV			1.81 V	229	94.9	5.2
3	5353.90	66.3 PK	74.0	-7.7	1.81 V	229	60.8	5.5
4	5353.90	53.7 AV	54.0	-0.3	1.81 V	229	48.2	5.5
5	#10580.00	59.8 PK	68.2	-8.4	1.38 V	148	43.9	15.9
6	15870.00	56.0 PK	74.0	-18.0	1.46 V	150	39.5	16.5
7	15870.00	44.6 AV	54.0	-9.4	1.46 V	150	28.1	16.5

Remarks:

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

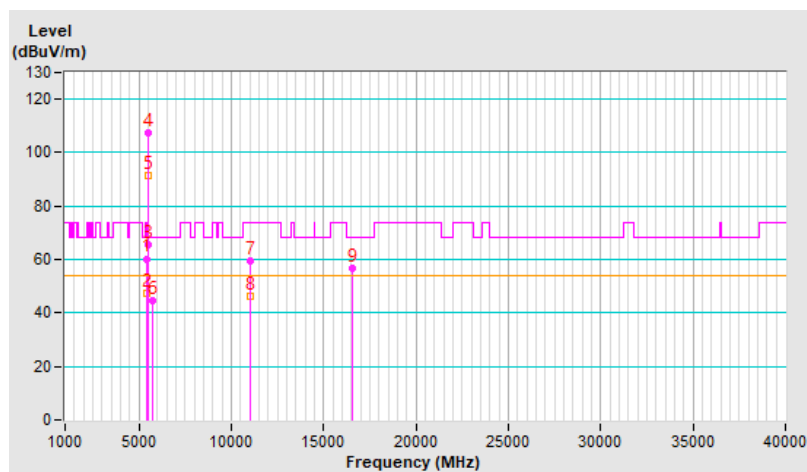


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5453.49	60.3 PK	74.0	-13.7	1.52 H	161	54.7	5.6
2	5453.49	47.6 AV	54.0	-6.4	1.52 H	161	42.0	5.6
3	#5470.00	65.4 PK	68.2	-2.8	1.52 H	161	59.8	5.6
4	*5530.00	107.5 PK			1.52 H	161	101.9	5.6
5	*5530.00	91.5 AV			1.52 H	161	85.9	5.6
6	#5725.00	44.7 PK	68.2	-23.5	1.52 H	161	38.9	5.8
7	11060.00	59.4 PK	74.0	-14.6	1.46 H	212	43.2	16.2
8	11060.00	46.1 AV	54.0	-7.9	1.46 H	212	29.9	16.2
9	#16590.00	56.8 PK	68.2	-11.4	1.41 H	31	36.6	20.2

Remarks:

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

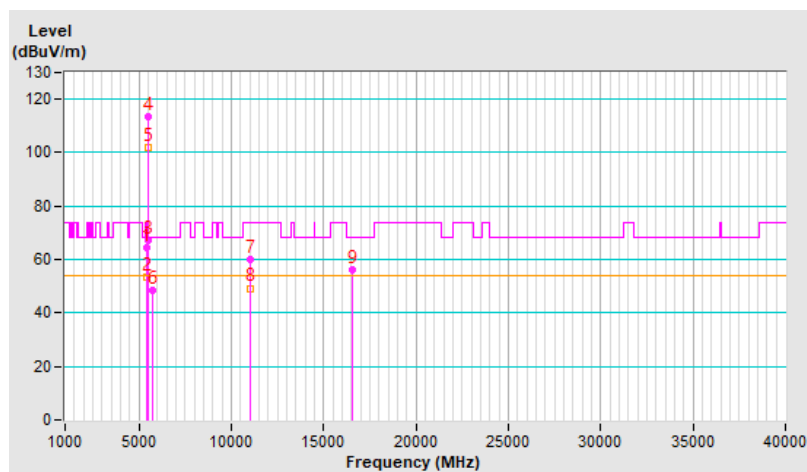


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5453.49	64.5 PK	74.0	-9.5	1.90 V	233	58.9	5.6
2	5453.49	53.5 AV	54.0	-0.5	1.90 V	233	47.9	5.6
3	#5470.00	67.4 PK	68.2	-0.8	1.90 V	233	61.8	5.6
4	*5530.00	113.2 PK			1.90 V	233	107.6	5.6
5	*5530.00	101.7 AV			1.90 V	233	96.1	5.6
6	#5725.00	48.7 PK	68.2	-19.5	1.90 V	233	42.9	5.8
7	11060.00	59.8 PK	74.0	-14.2	1.38 V	148	43.6	16.2
8	11060.00	49.3 AV	54.0	-4.7	1.38 V	148	33.1	16.2
9	#16590.00	56.0 PK	68.2	-12.2	1.46 V	150	35.8	20.2

Remarks:

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

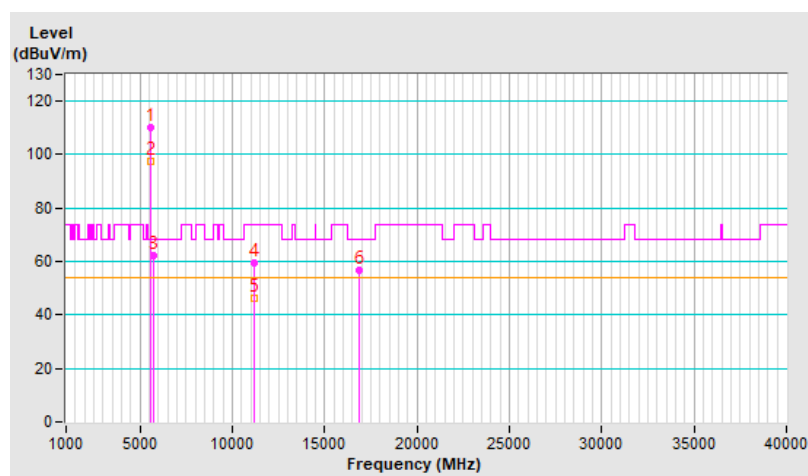


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	109.9 PK			2.36 H	137	104.2	5.7
2	*5610.00	97.6 AV			2.36 H	137	91.9	5.7
3	#5725.00	62.4 PK	68.2	-5.8	2.36 H	137	56.6	5.8
4	11220.00	59.4 PK	74.0	-14.6	1.46 H	212	43.4	16.0
5	11220.00	46.1 AV	54.0	-7.9	1.46 H	212	30.1	16.0
6	#16830.00	56.8 PK	68.2	-11.4	1.41 H	31	35.6	21.2

Remarks:

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

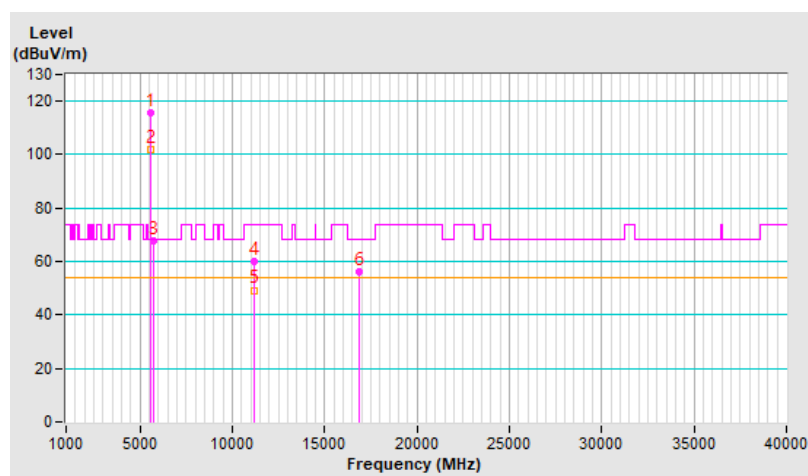


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	115.8 PK			1.77 V	229	110.1	5.7
2	*5610.00	101.9 AV			1.77 V	229	96.2	5.7
3	#5725.00	67.8 PK	68.2	-0.4	1.77 V	229	62.0	5.8
4	11220.00	59.8 PK	74.0	-14.2	1.38 V	148	43.8	16.0
5	11220.00	49.3 AV	54.0	-4.7	1.38 V	148	33.3	16.0
6	#16830.00	56.0 PK	68.2	-12.2	1.46 V	150	34.8	21.2

Remarks:

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

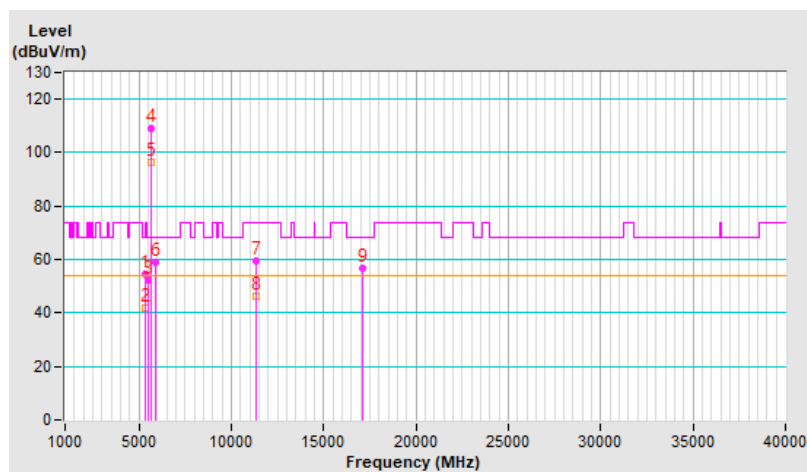


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5369.90	54.7 PK	74.0	-19.3	2.36 H	147	49.2	5.5
2	5369.90	41.8 AV	54.0	-12.2	2.36 H	147	36.3	5.5
3	#5470.00	52.4 PK	68.2	-15.8	2.36 H	147	46.8	5.6
4	*5690.00	109.0 PK			2.36 H	147	103.2	5.8
5	*5690.00	96.5 AV			2.36 H	147	90.7	5.8
6	#5856.00	58.9 PK	68.2	-9.3	2.36 H	147	52.4	6.5
7	11380.00	59.4 PK	74.0	-14.6	1.46 H	212	42.7	16.7
8	11380.00	46.1 AV	54.0	-7.9	1.46 H	212	29.4	16.7
9	#17070.00	56.8 PK	68.2	-11.4	1.41 H	31	35.1	21.7

Remarks:

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

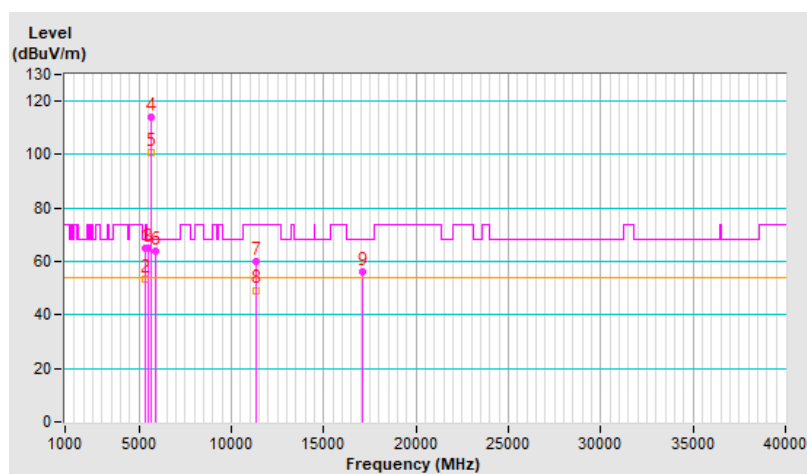


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5369.90	65.0 PK	74.0	-9.0	1.70 V	230	59.5	5.5
2	5369.90	53.4 AV	54.0	-0.6	1.70 V	230	47.9	5.5
3	#5470.00	65.1 PK	68.2	-3.1	1.70 V	230	59.5	5.6
4	*5690.00	113.8 PK			1.70 V	230	108.0	5.8
5	*5690.00	100.7 AV			1.70 V	230	94.9	5.8
6	#5856.00	63.7 PK	68.2	-4.5	1.70 V	230	57.2	6.5
7	11380.00	59.8 PK	74.0	-14.2	1.38 V	148	43.1	16.7
8	11380.00	49.3 AV	54.0	-4.7	1.38 V	148	32.6	16.7
9	#17070.00	56.0 PK	68.2	-12.2	1.46 V	150	34.3	21.7

Remarks:

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

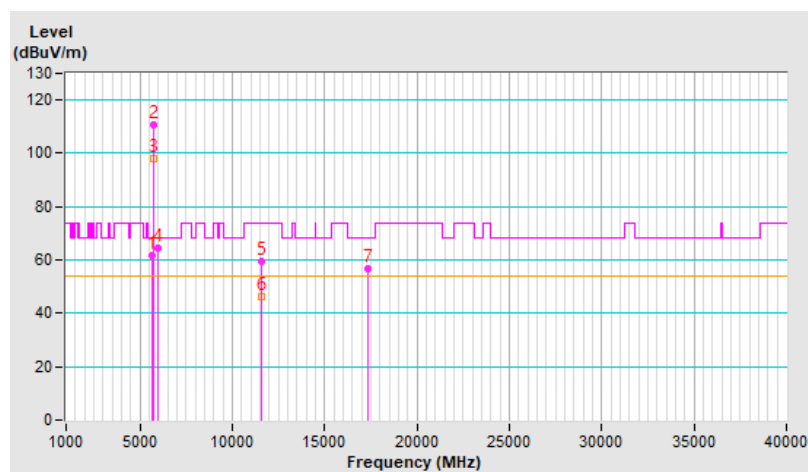


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	#5647.10	61.5 PK	68.2	-6.7	1.88 H	337	55.6	5.9
2	*5775.00	110.5 PK			1.88 H	337	104.4	6.1
3	*5775.00	97.9 AV			1.88 H	337	91.8	6.1
4	#5939.00	64.3 PK	68.2	-3.9	1.88 H	337	58.0	6.3
5	11550.00	59.6 PK	74.0	-14.4	1.44 H	220	42.9	16.7
6	11550.00	46.3 AV	54.0	-7.7	1.44 H	220	29.6	16.7
7	#17325.00	56.5 PK	68.2	-11.7	1.43 H	6	35.3	21.2

Remarks:

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

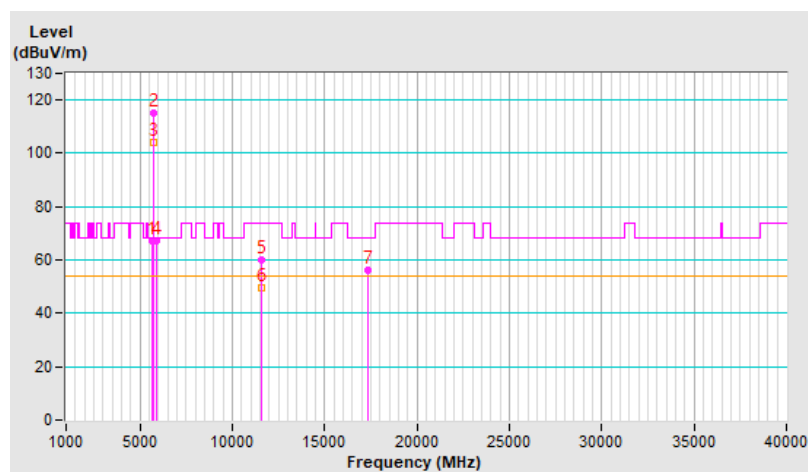


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.13	67.4 PK	68.2	-0.8	1.86 V	232	61.5	5.9
2	*5775.00	115.1 PK			1.86 V	232	109.0	6.1
3	*5775.00	104.3 AV			1.86 V	232	98.2	6.1
4	#5928.81	67.1 PK	68.2	-1.1	1.86 V	232	60.8	6.3
5	11550.00	60.1 PK	74.0	-13.9	1.32 V	140	43.4	16.7
6	11550.00	49.4 AV	54.0	-4.6	1.32 V	140	32.7	16.7
7	#17325.00	56.1 PK	68.2	-12.1	1.55 V	144	34.9	21.2

Remarks:

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

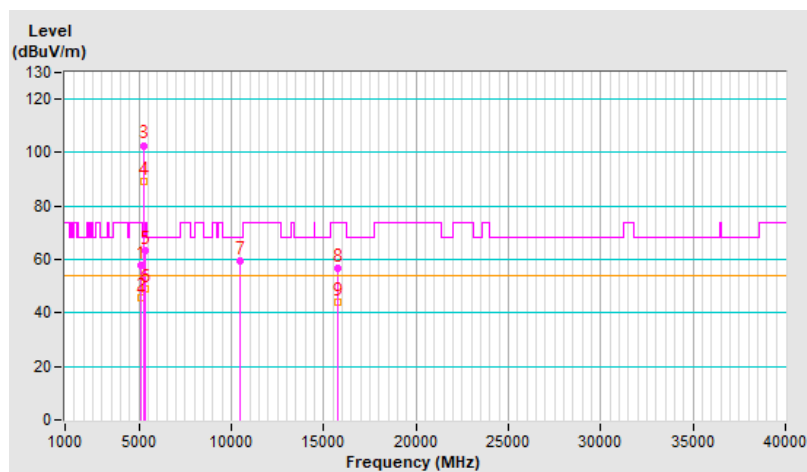


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5131.15	58.0 PK	74.0	-16.0	1.87 H	161	52.4	5.6
2	5131.15	45.9 AV	54.0	-8.1	1.87 H	161	40.3	5.6
3	*5250.00	102.7 PK			1.87 H	161	97.5	5.2
4	*5250.00	89.2 AV			1.87 H	161	84.0	5.2
5	5371.44	63.5 PK	74.0	-10.5	1.87 H	161	58.0	5.5
6	5371.44	49.1 AV	54.0	-4.9	1.87 H	161	43.6	5.5
7	#10500.00	59.6 PK	68.2	-8.6	1.44 H	220	43.7	15.9
8	15750.00	56.5 PK	74.0	-17.5	1.43 H	6	39.9	16.6
9	15750.00	44.1 AV	54.0	-9.9	1.43 H	6	27.5	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.

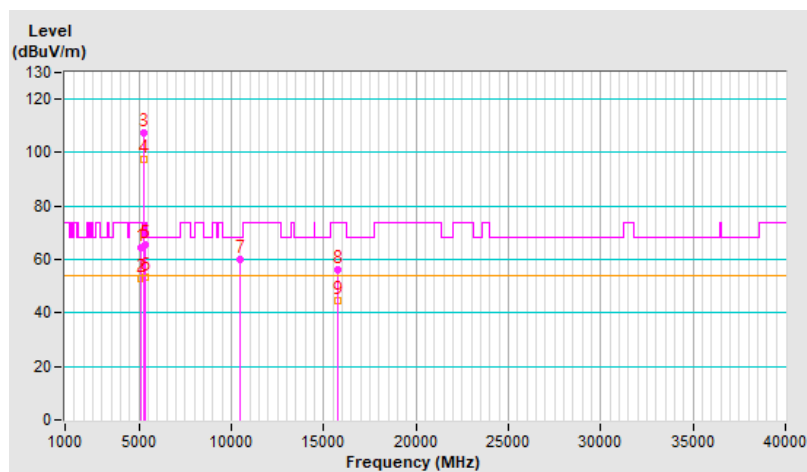


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5131.15	64.5 PK	74.0	-9.5	1.79 V	227	58.9	5.6
2	5131.15	53.0 AV	54.0	-1.0	1.79 V	227	47.4	5.6
3	*5250.00	107.3 PK			1.79 V	227	102.1	5.2
4	*5250.00	97.3 AV			1.79 V	227	92.1	5.2
5	5371.44	65.6 PK	74.0	-8.4	1.79 V	227	60.1	5.5
6	5371.44	53.4 AV	54.0	-0.6	1.79 V	227	47.9	5.5
7	#10500.00	60.1 PK	68.2	-8.1	1.32 V	140	44.2	15.9
8	15750.00	56.1 PK	74.0	-17.9	1.55 V	144	39.5	16.6
9	15750.00	44.4 AV	54.0	-9.6	1.55 V	144	27.8	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.

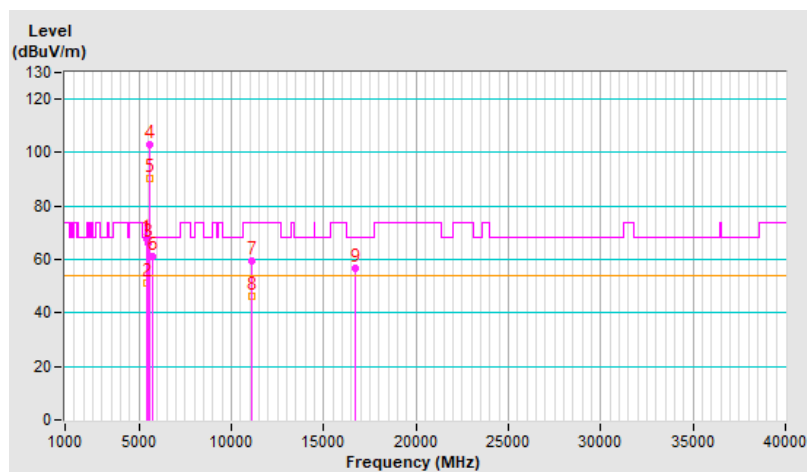


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

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	5453.40	67.5 PK	74.0	-6.5	1.70 H	120	61.9	5.6
2	5453.40	51.1 AV	54.0	-2.9	1.70 H	120	45.5	5.6
3	#5467.30	66.3 PK	68.2	-1.9	1.70 H	120	60.7	5.6
4	*5570.00	103.2 PK			1.70 H	120	97.6	5.6
5	*5570.00	90.1 AV			1.70 H	120	84.5	5.6
6	#5725.00	61.0 PK	68.2	-7.2	1.70 H	120	55.2	5.8
7	11140.00	59.6 PK	74.0	-14.4	1.44 H	220	43.6	16.0
8	11140.00	46.3 AV	54.0	-7.7	1.44 H	220	30.3	16.0
9	#16710.00	56.5 PK	68.2	-11.7	1.43 H	6	35.6	20.9

Remarks:

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

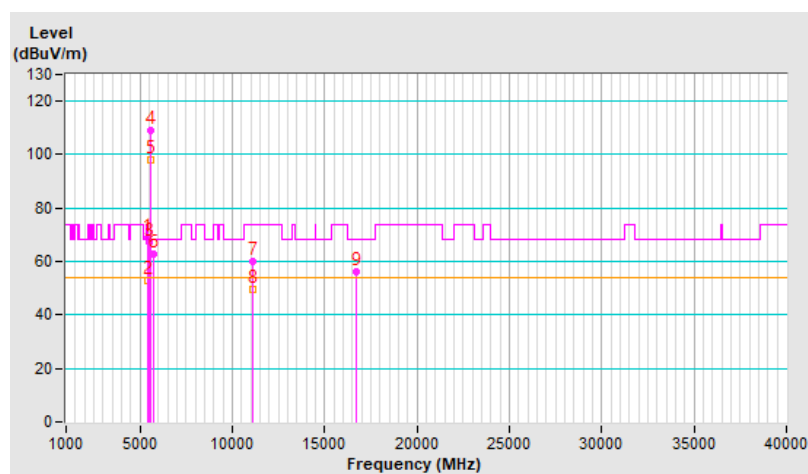


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5453.40	69.0 PK	74.0	-5.0	1.99 V	225	63.4	5.6
2	5453.40	52.7 AV	54.0	-1.3	1.99 V	225	47.1	5.6
3	#5467.30	67.3 PK	68.2	-0.9	1.99 V	225	61.7	5.6
4	*5570.00	109.1 PK			1.99 V	225	103.5	5.6
5	*5570.00	97.9 AV			1.99 V	225	92.3	5.6
6	#5725.00	63.0 PK	68.2	-5.2	1.99 V	225	57.2	5.8
7	11140.00	60.1 PK	74.0	-13.9	1.32 V	140	44.1	16.0
8	11140.00	49.4 AV	54.0	-4.6	1.32 V	140	33.4	16.0
9	#16710.00	56.1 PK	68.2	-12.1	1.55 V	144	35.2	20.9

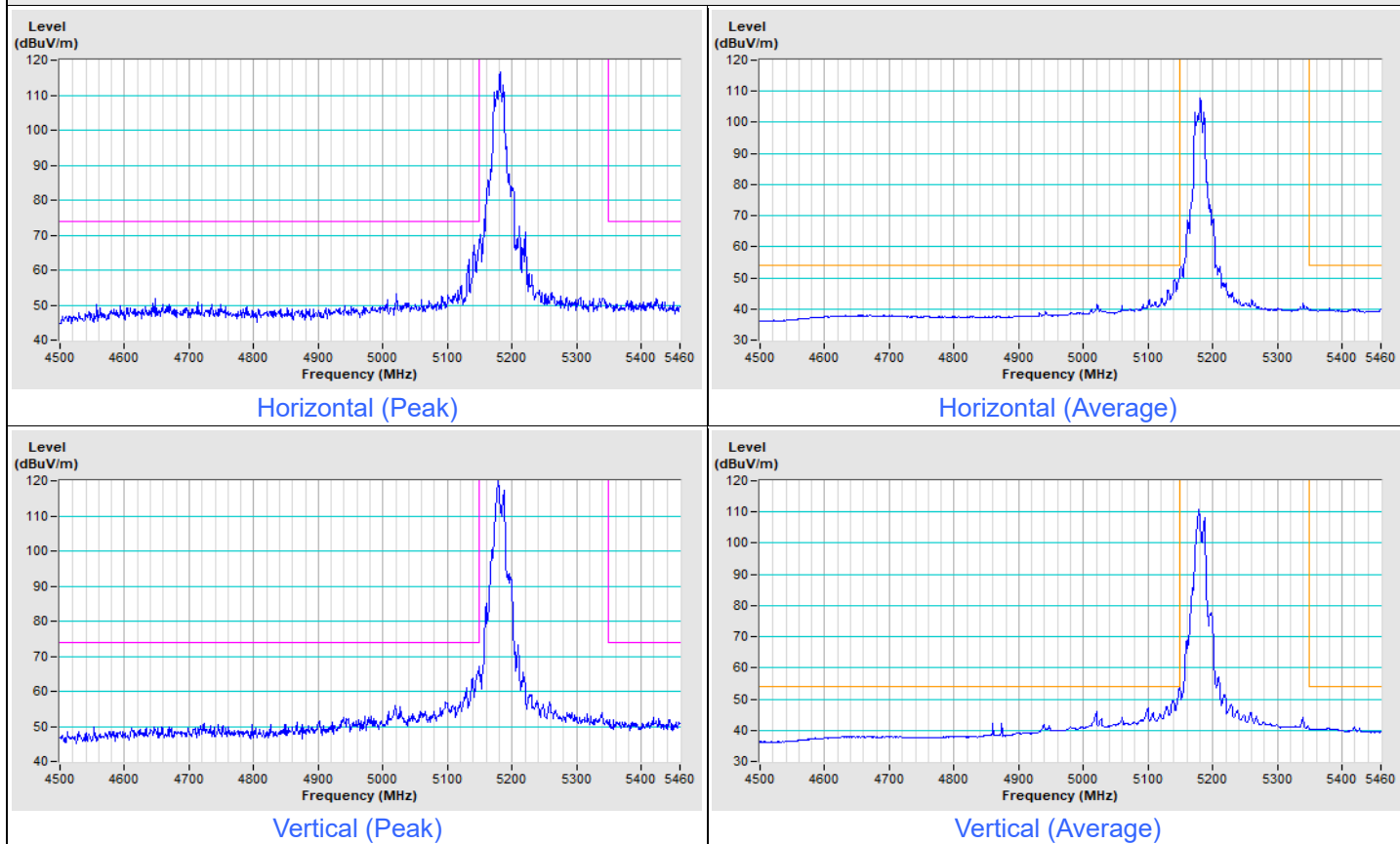
Remarks:

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.

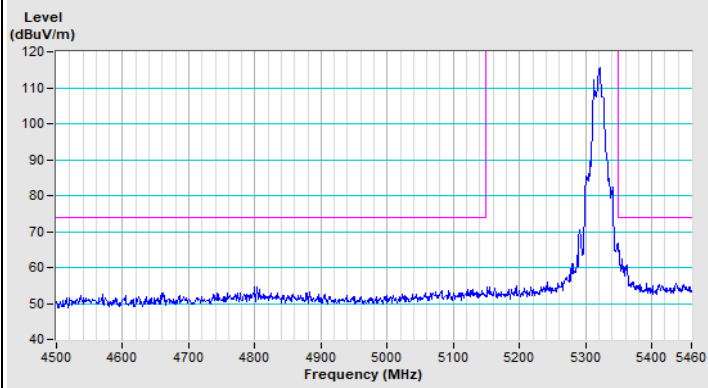


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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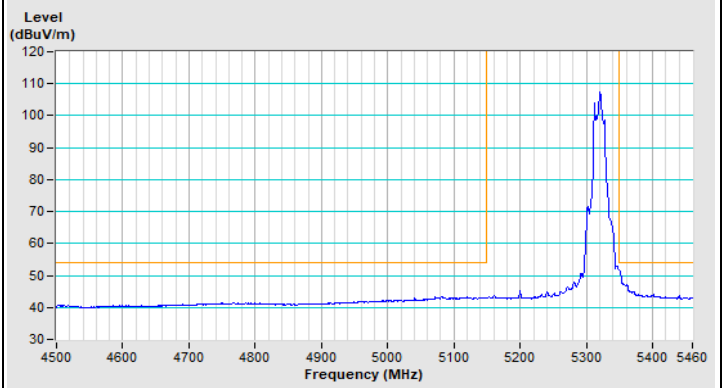
802.11a Channel 36



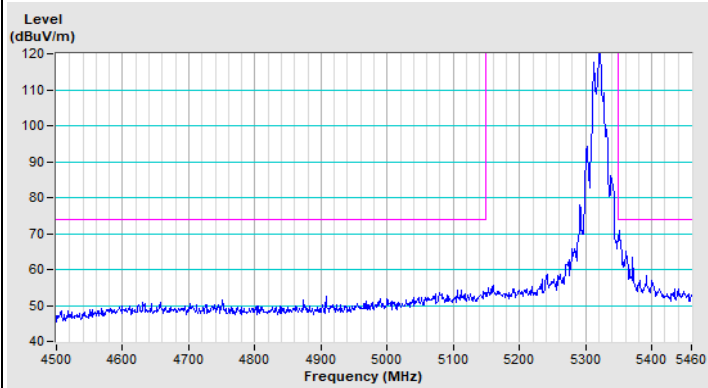
802.11a Channel 64



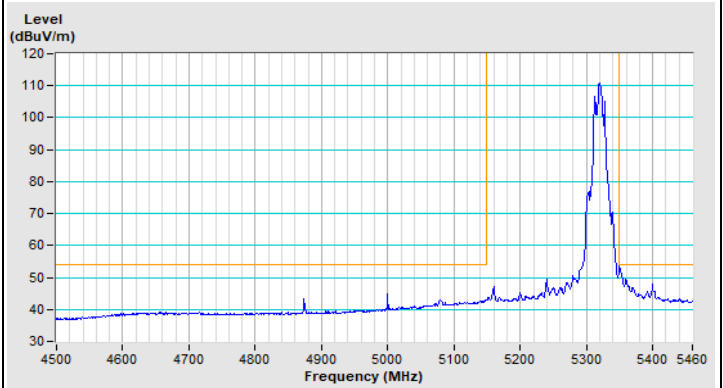
Horizontal (Peak)



Horizontal (Average)



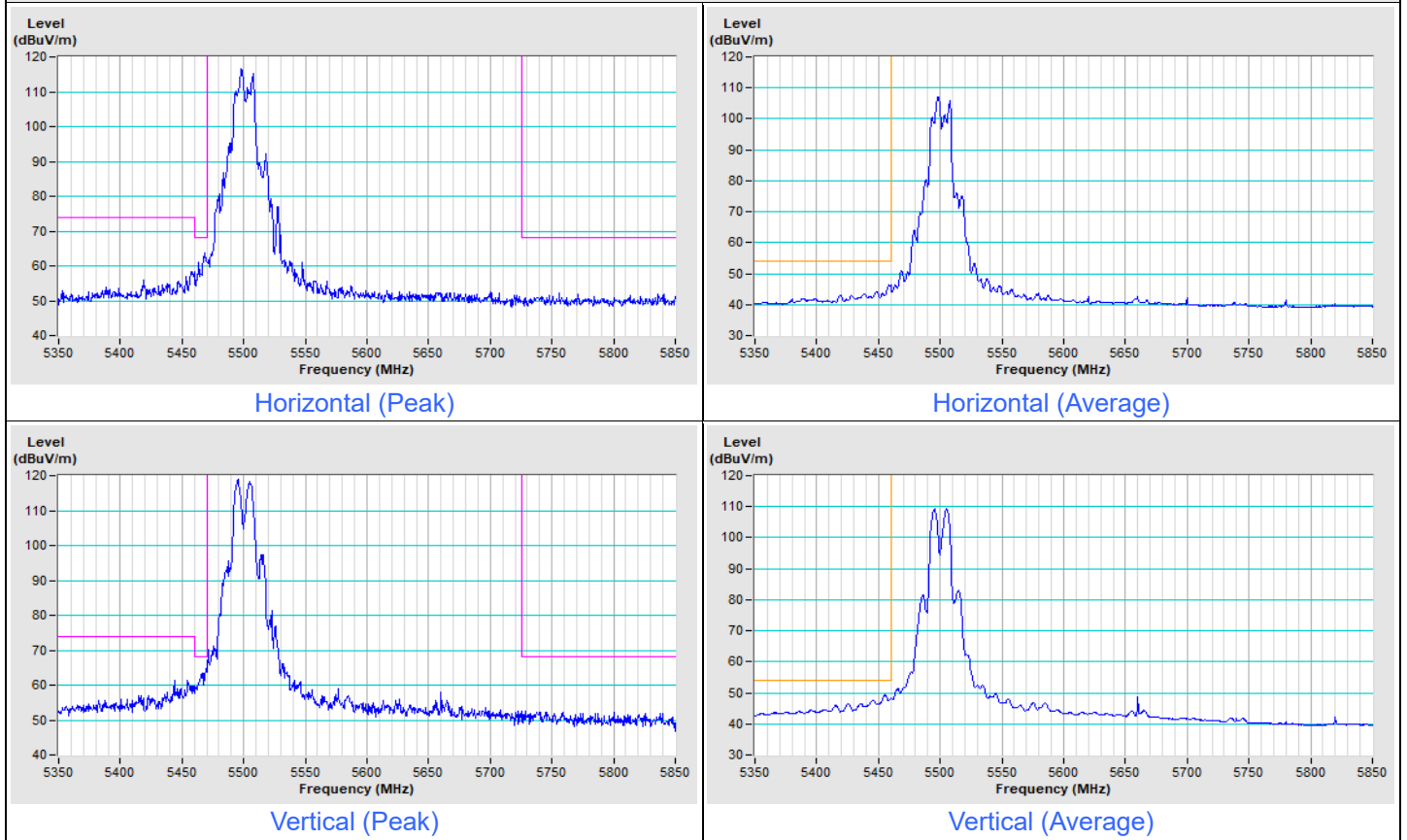
Vertical (Peak)



Vertical (Average)

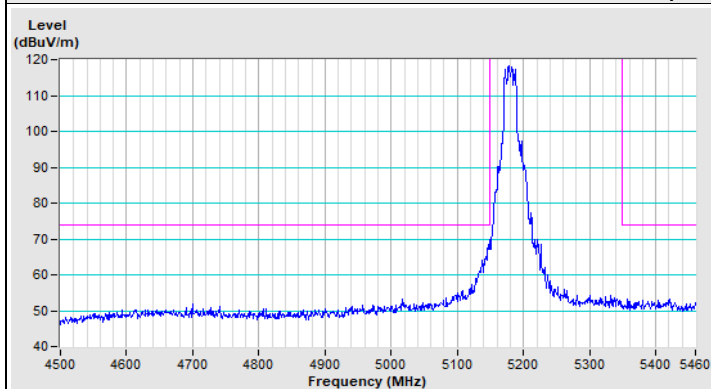
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 100

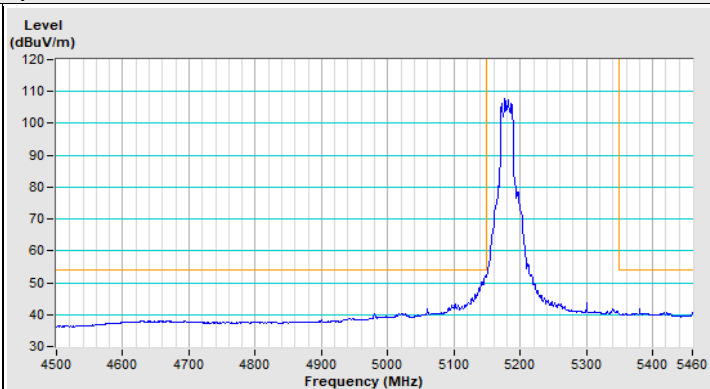


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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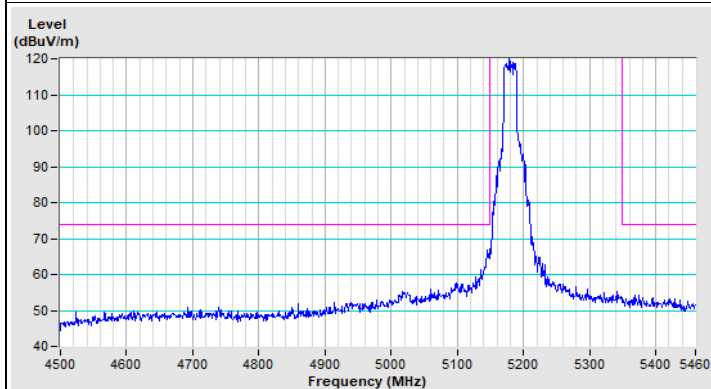
802.11ax (HE20) Channel 36



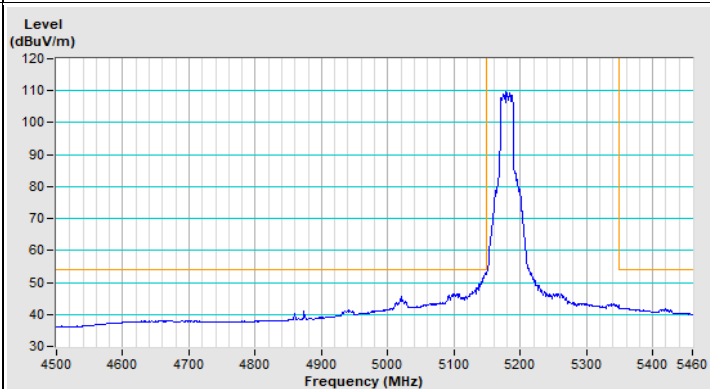
Horizontal (Peak)



Horizontal (Average)

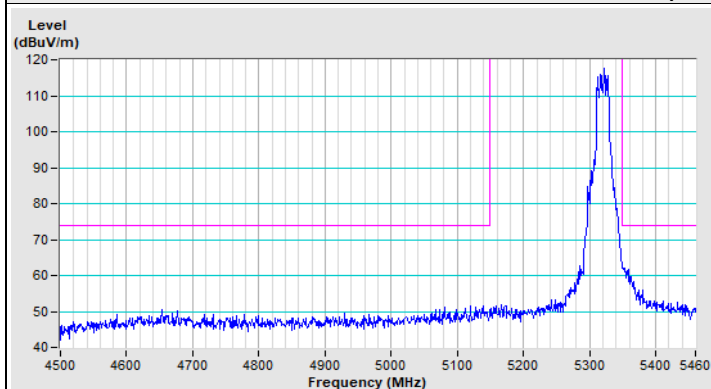


Vertical (Peak)

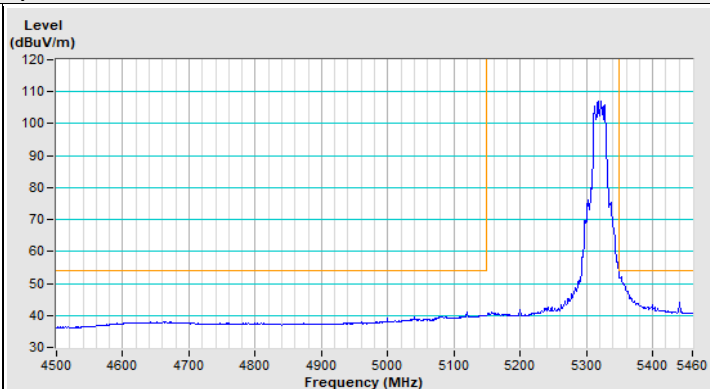


Vertical (Average)

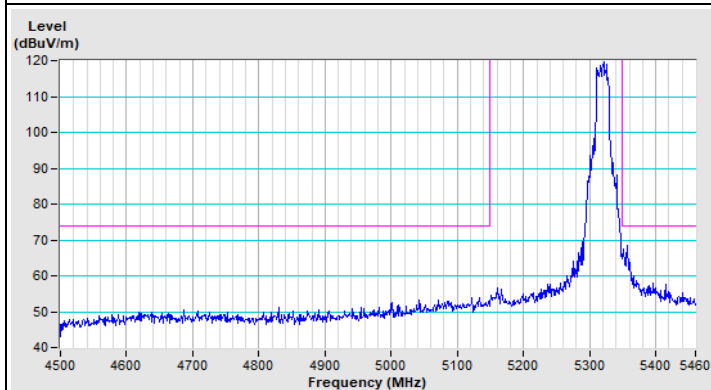
802.11ax (HE20) Channel 64



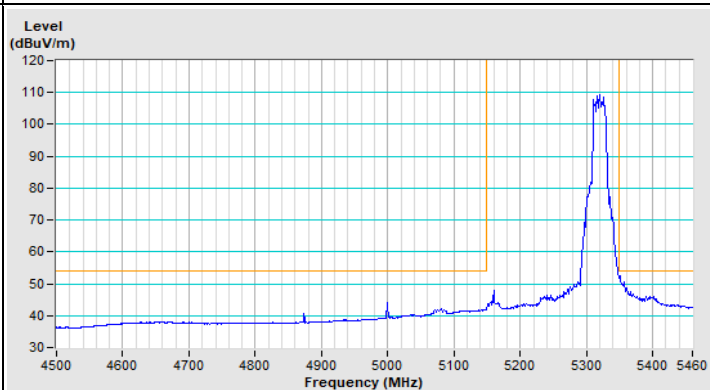
Horizontal (Peak)



Horizontal (Average)



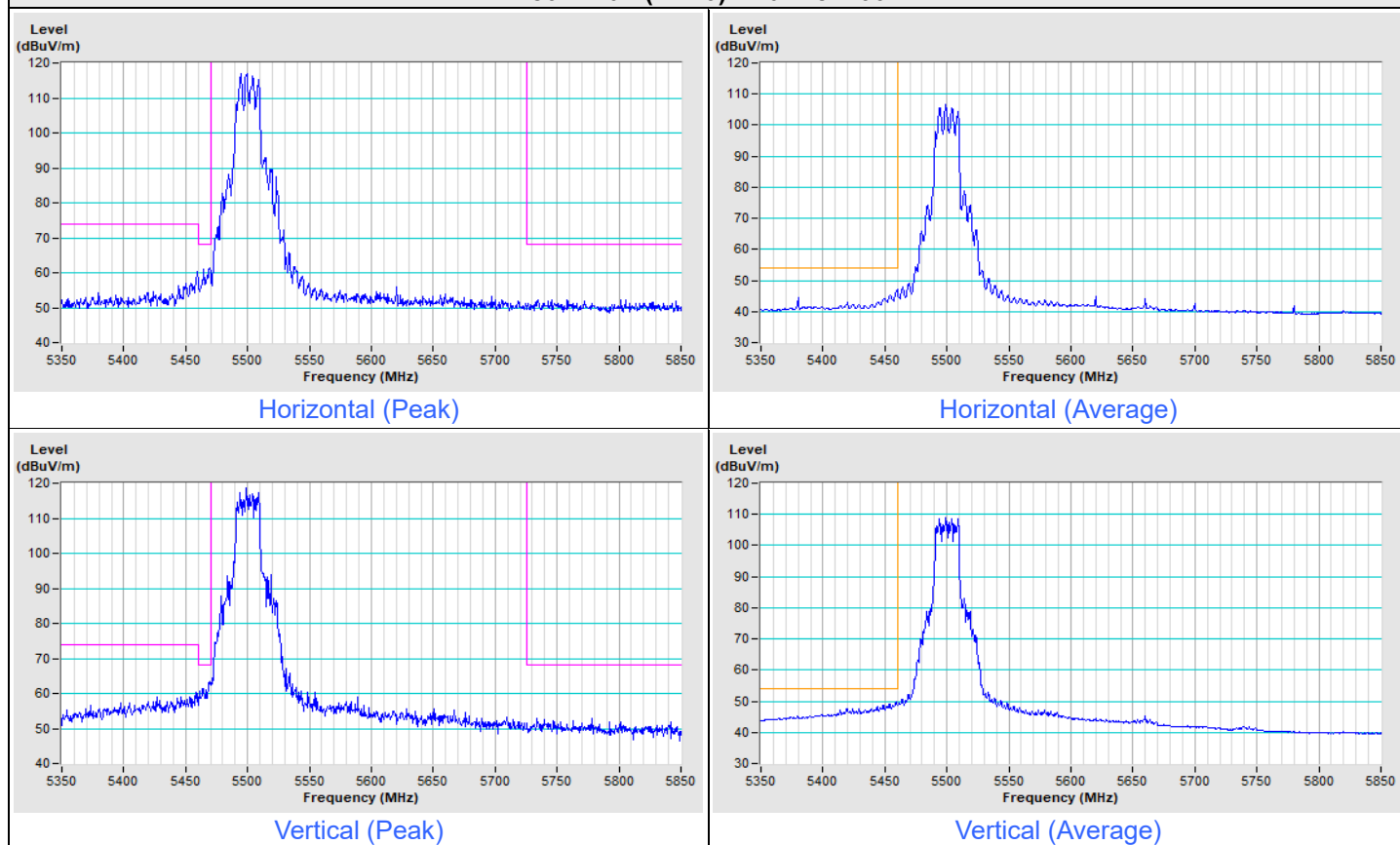
Vertical (Peak)



Vertical (Average)

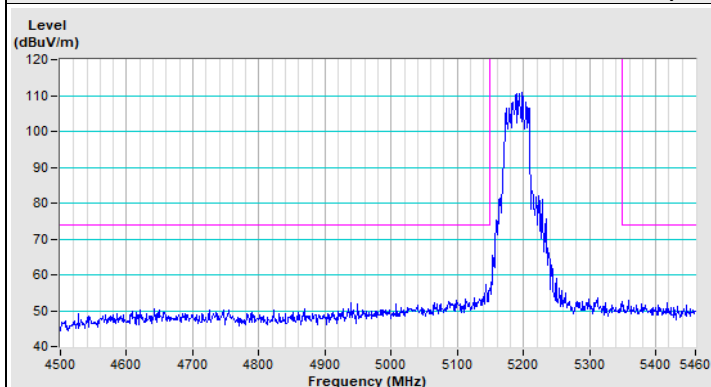
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 100

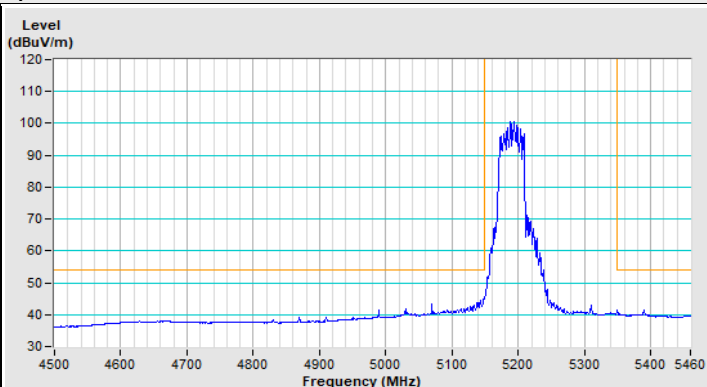


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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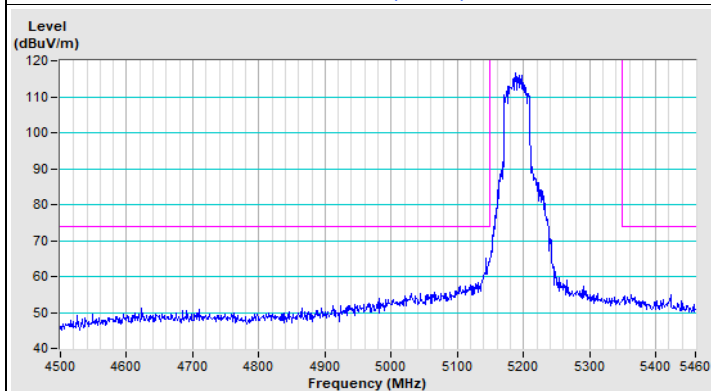
802.11ax (HE40) Channel 38



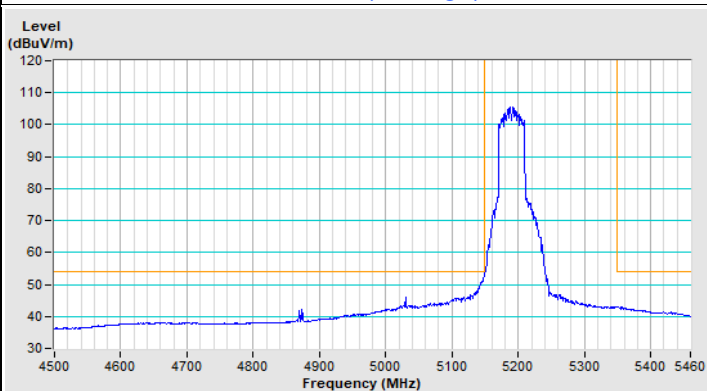
Horizontal (Peak)



Horizontal (Average)

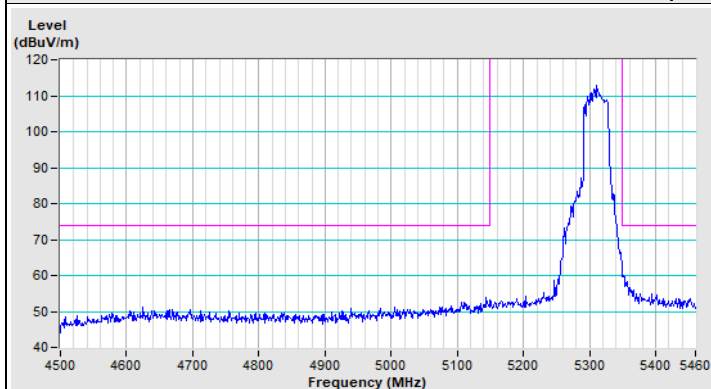


Vertical (Peak)

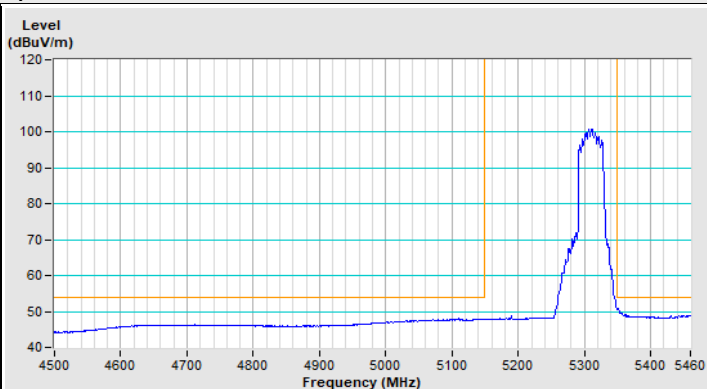


Vertical (Average)

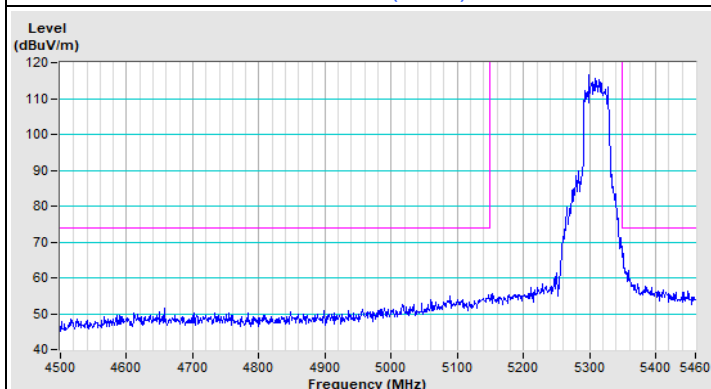
802.11ax (HE40) Channel 62



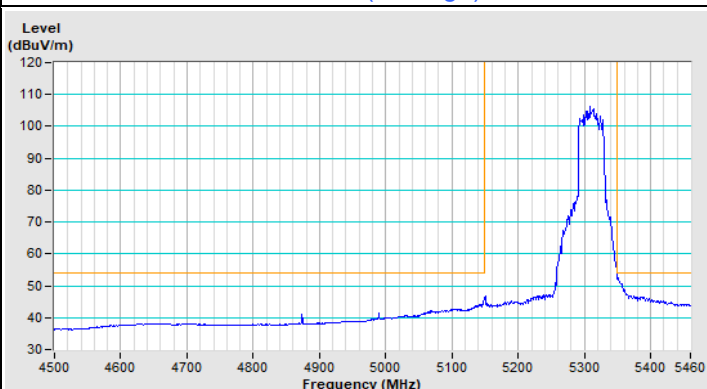
Horizontal (Peak)



Horizontal (Average)



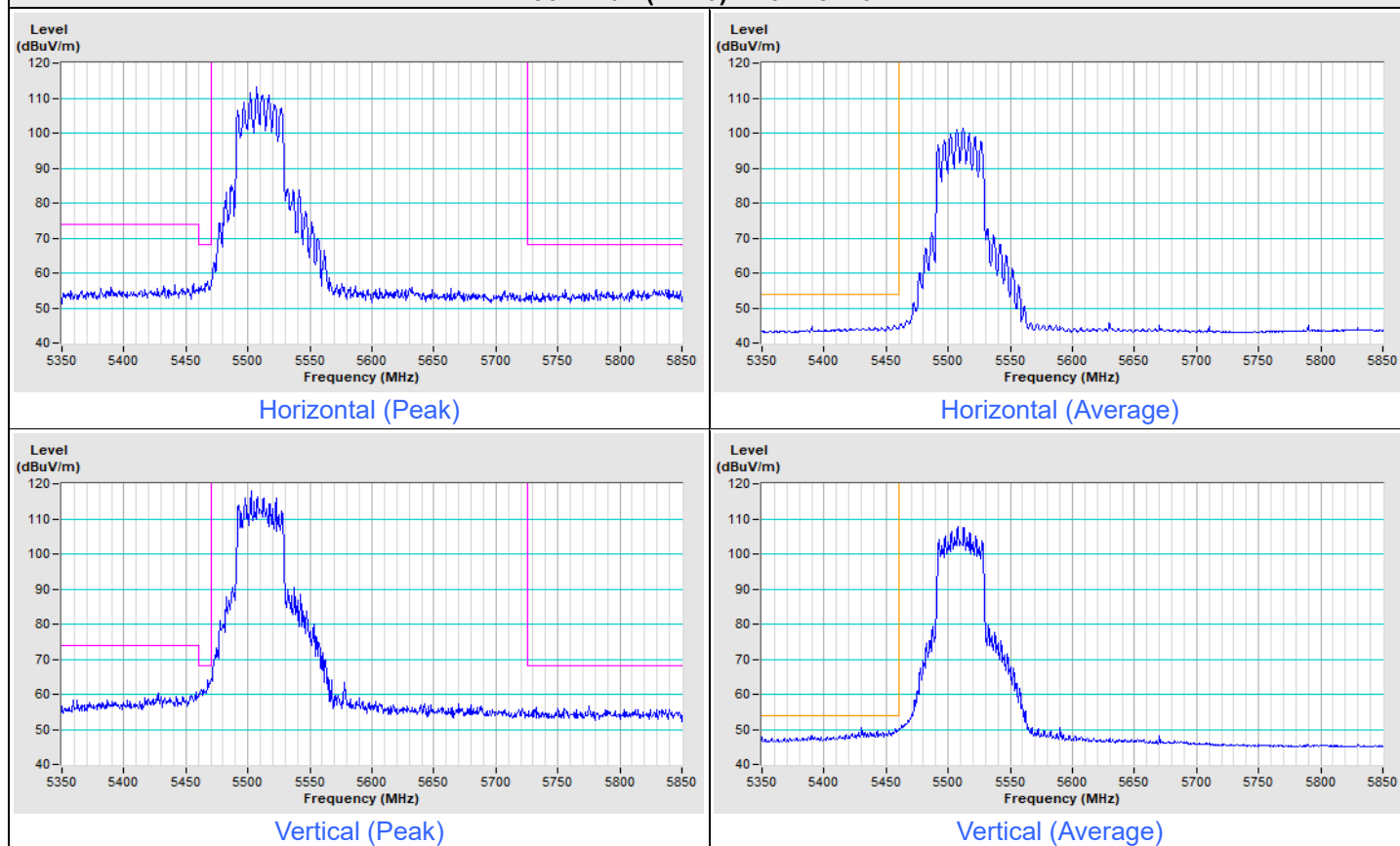
Vertical (Peak)



Vertical (Average)

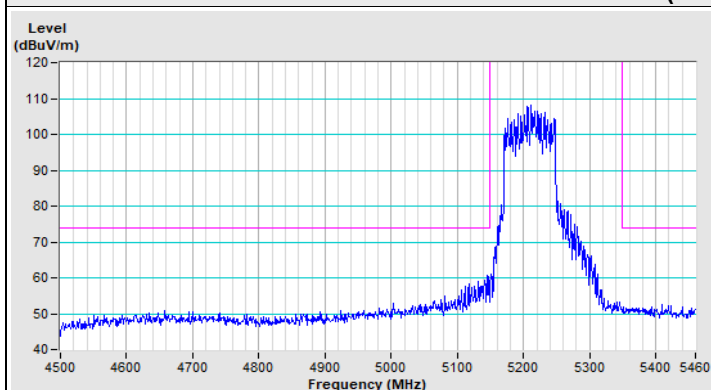
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 102

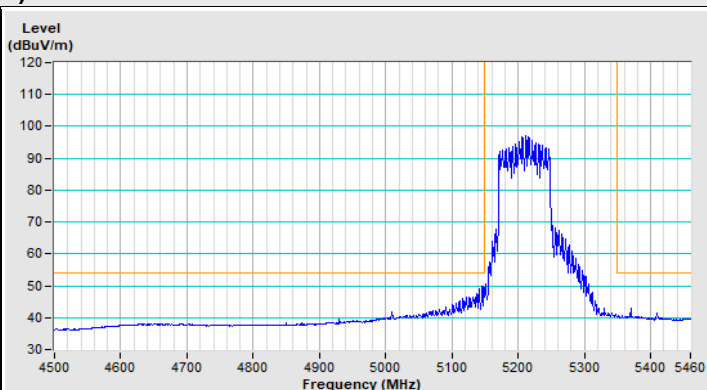


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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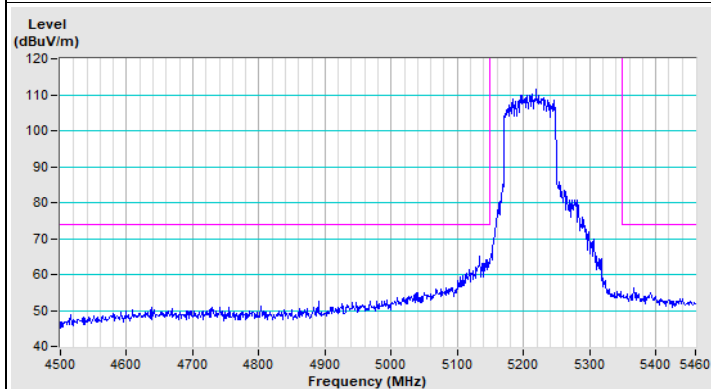
802.11ax (HE80) Channel 42



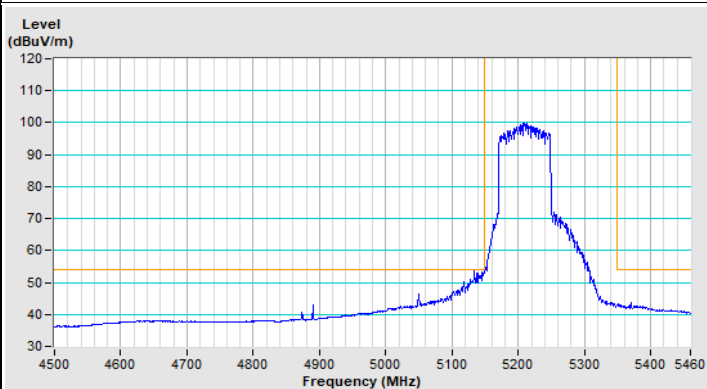
Horizontal (Peak)



Horizontal (Average)

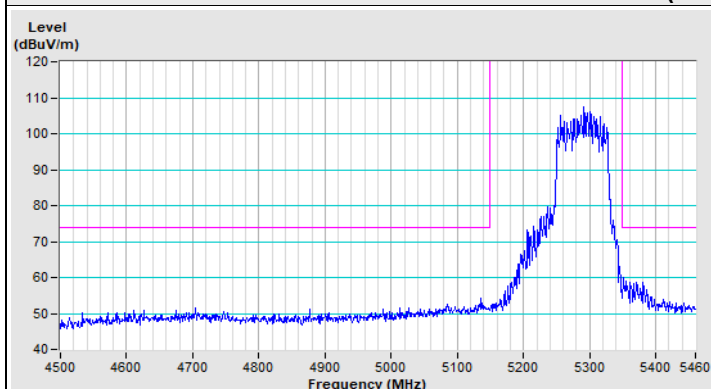


Vertical (Peak)

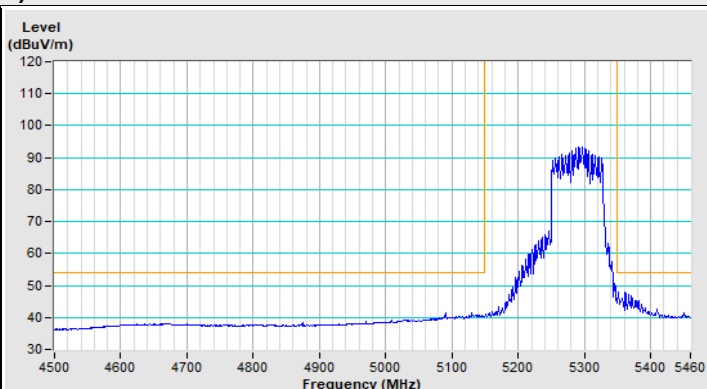


Vertical (Average)

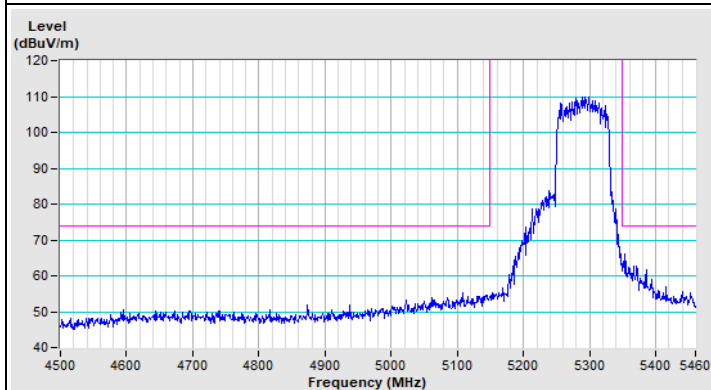
802.11ax (HE80) Channel 58



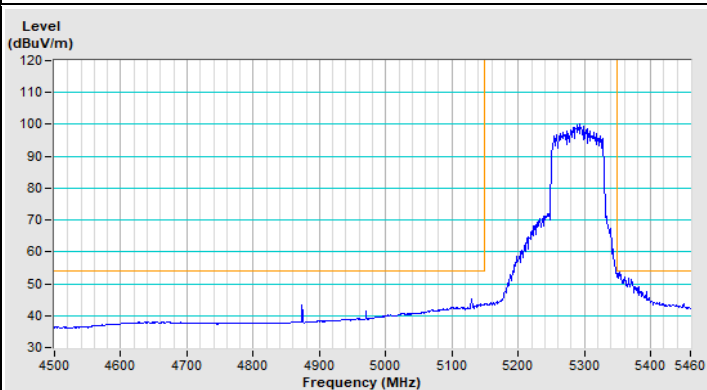
Horizontal (Peak)



Horizontal (Average)



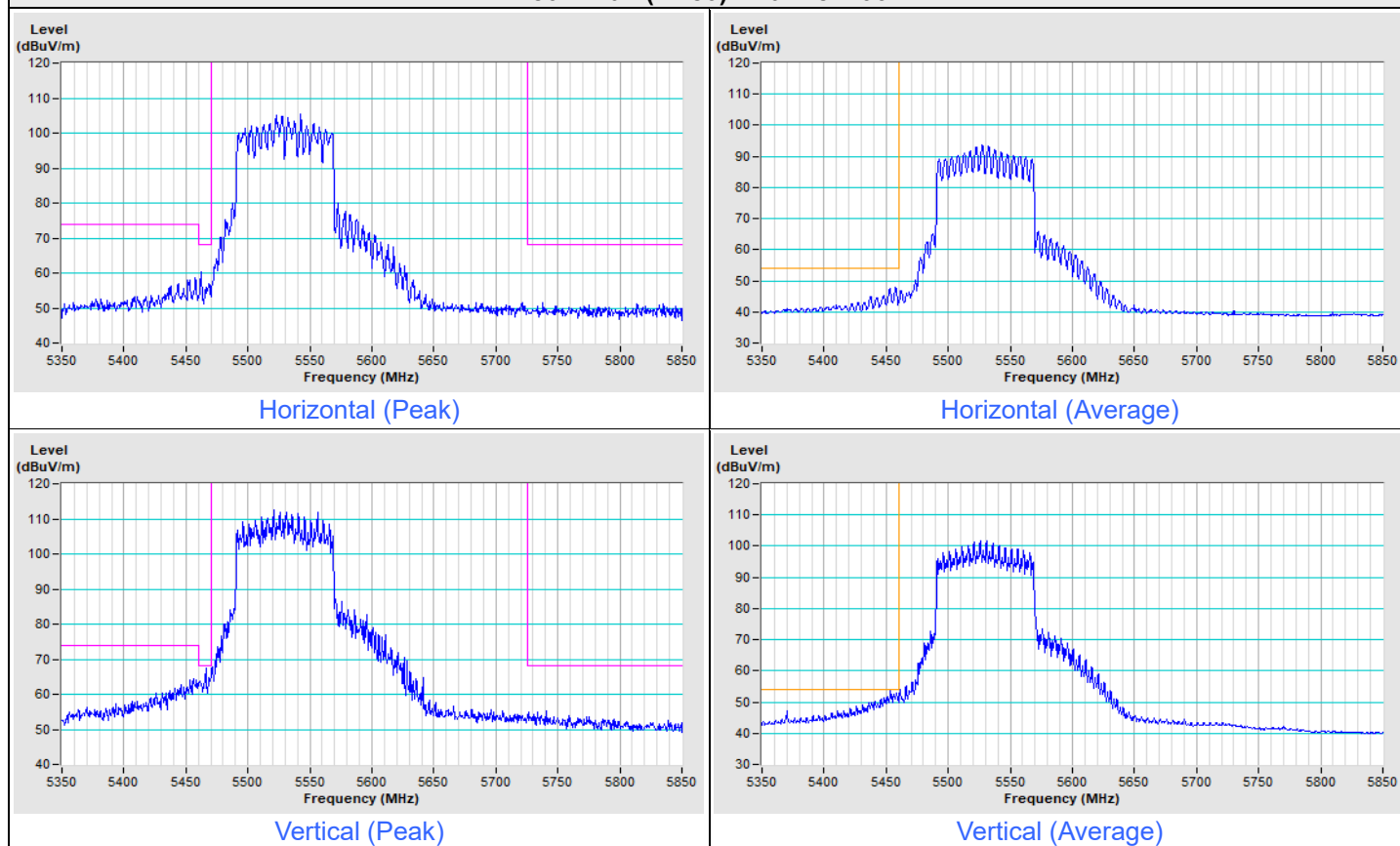
Vertical (Peak)



Vertical (Average)

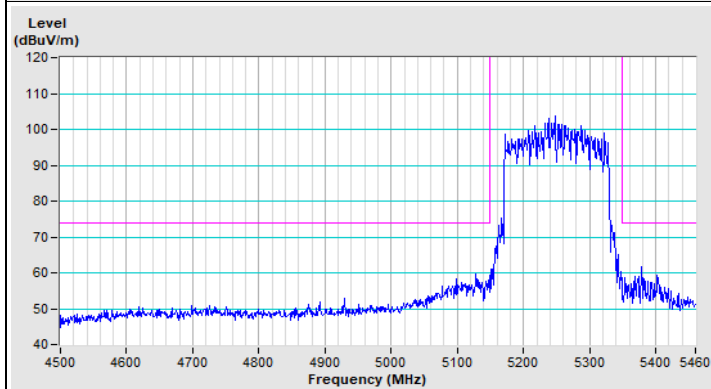
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Channel 106

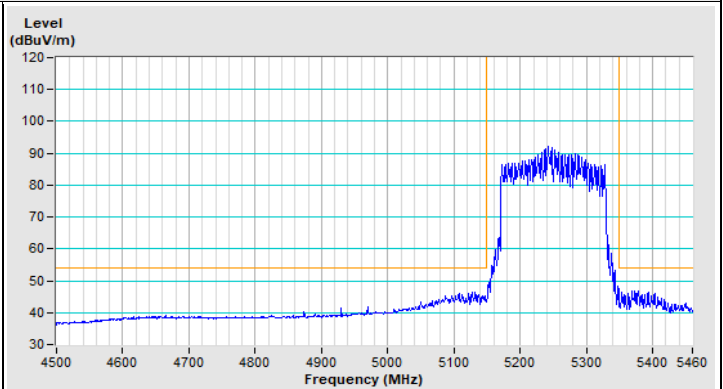


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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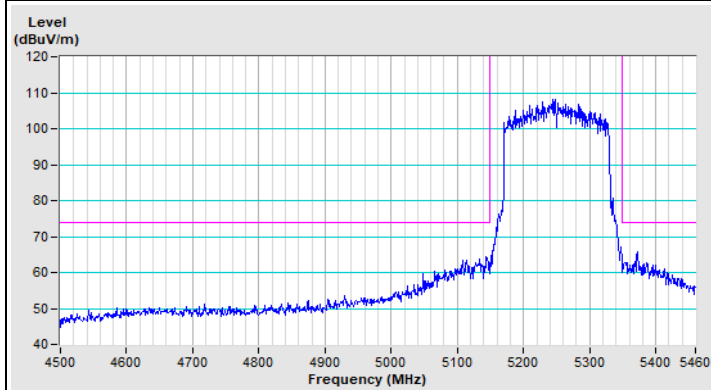
802.11ax (HE160) Channel 50



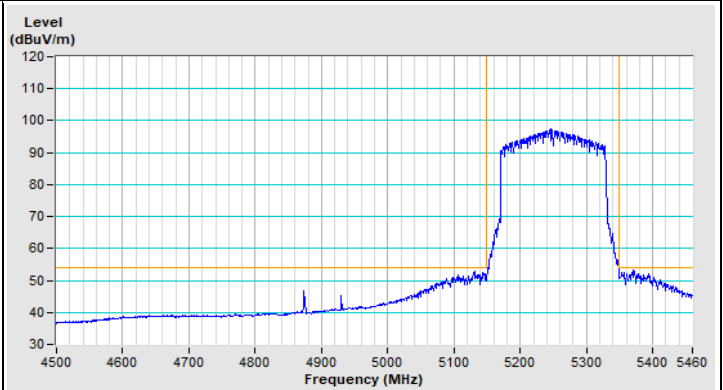
Horizontal (Peak)



Horizontal (Average)



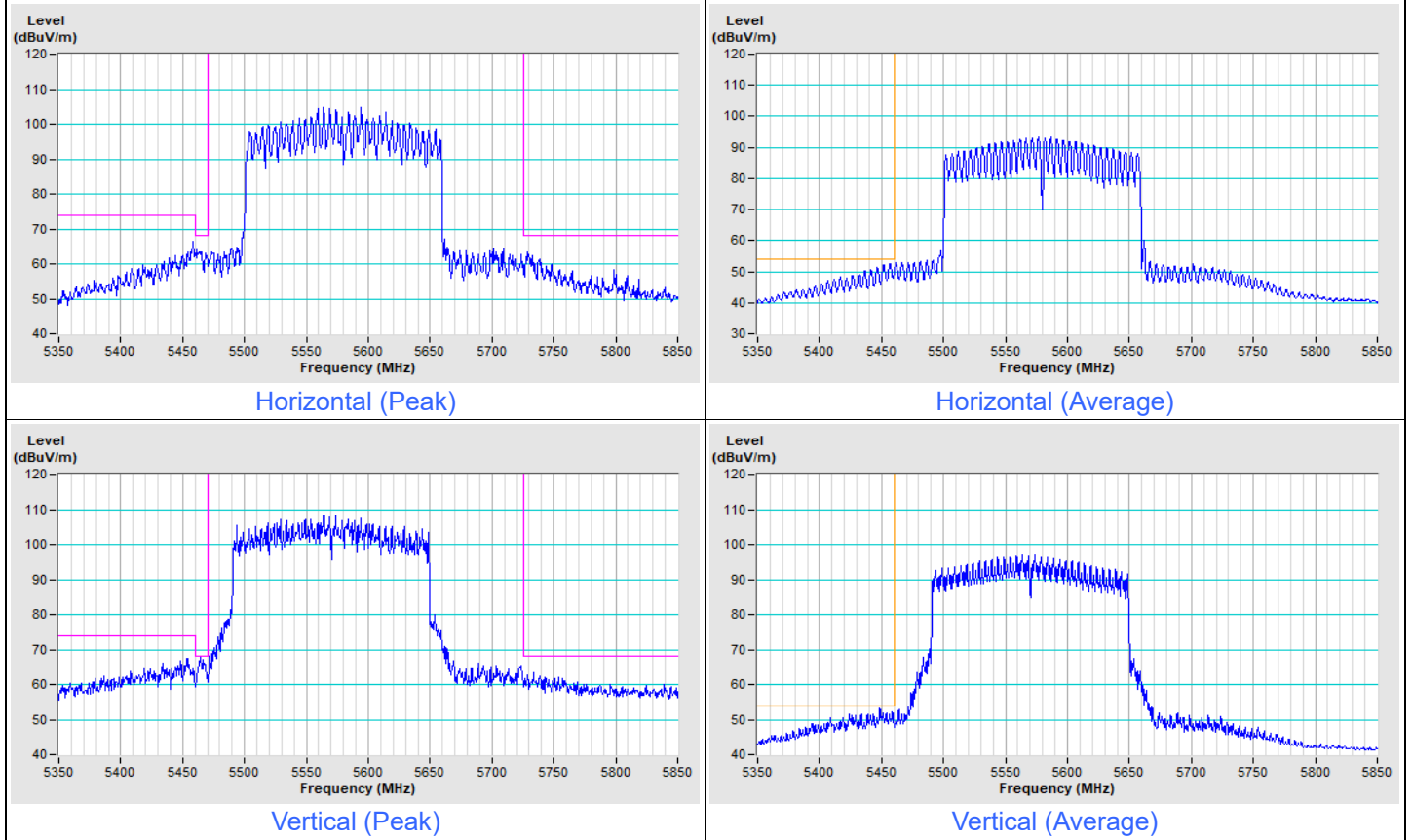
Vertical (Peak)



Vertical (Average)

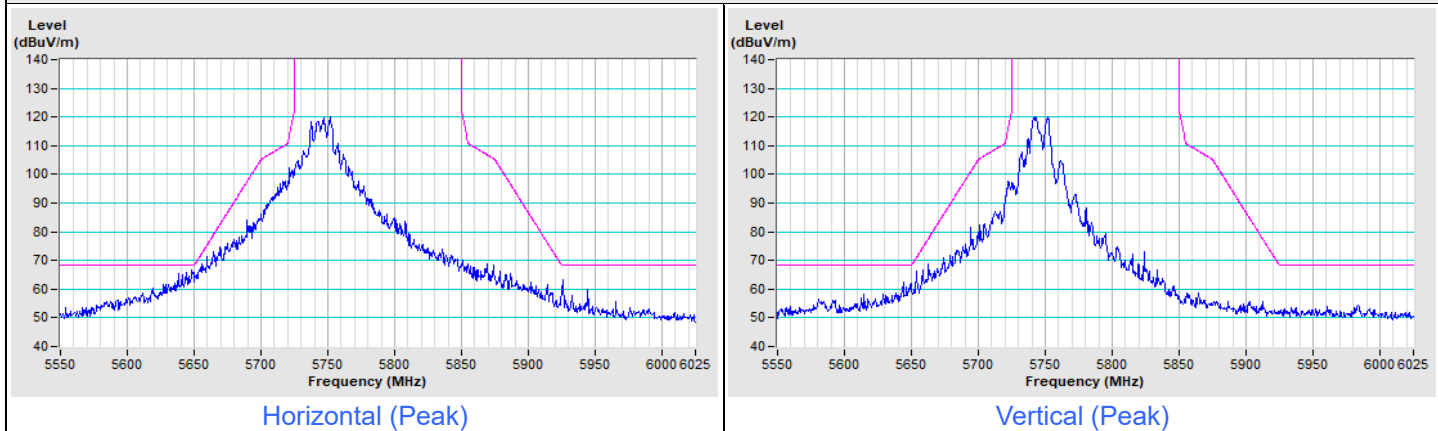
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ax (HE160) Channel 114

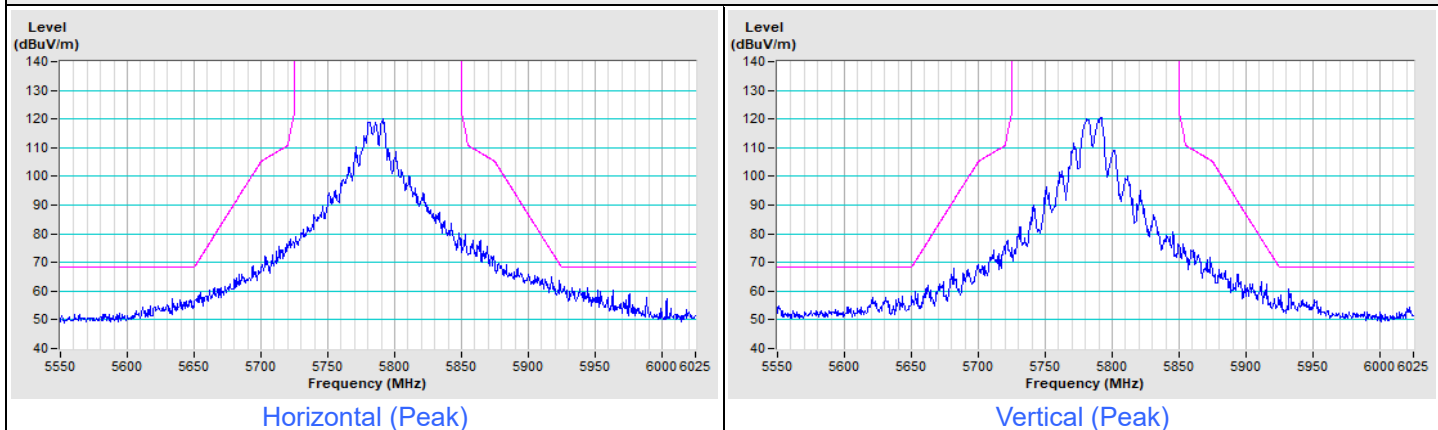


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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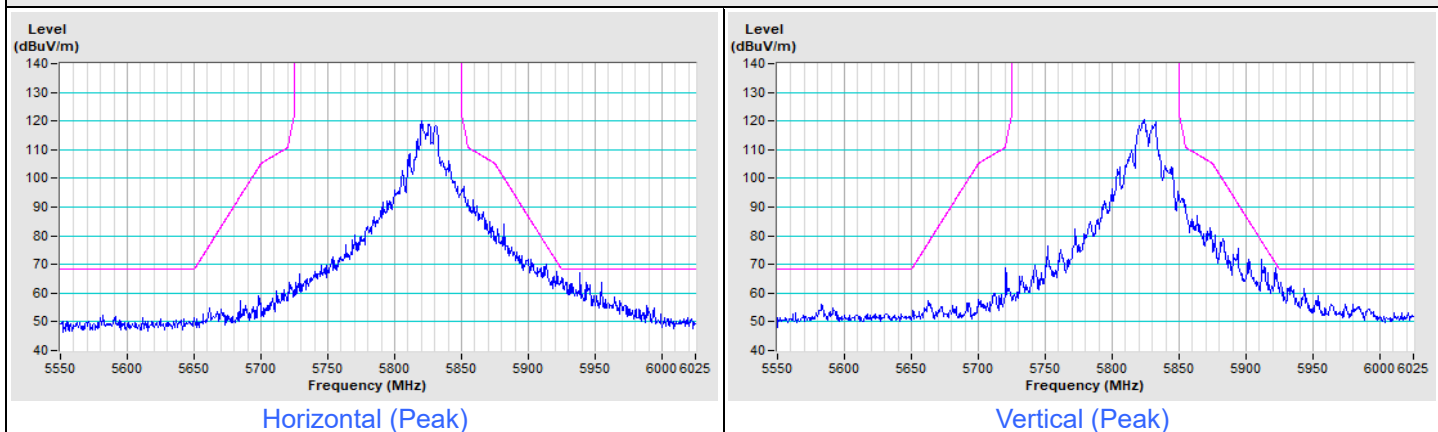
802.11a Channel 149



802.11a Channel 157

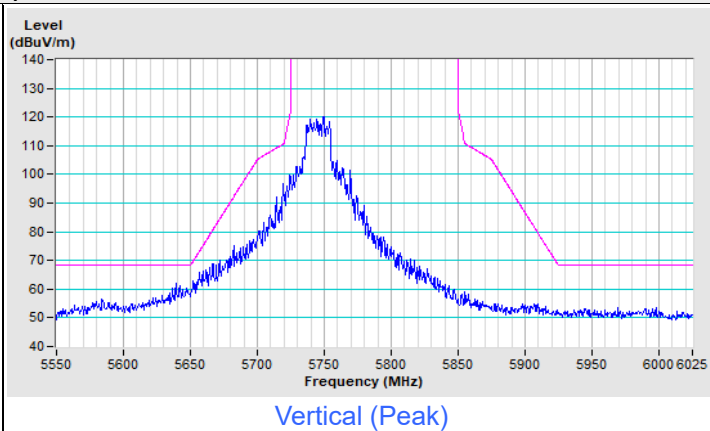
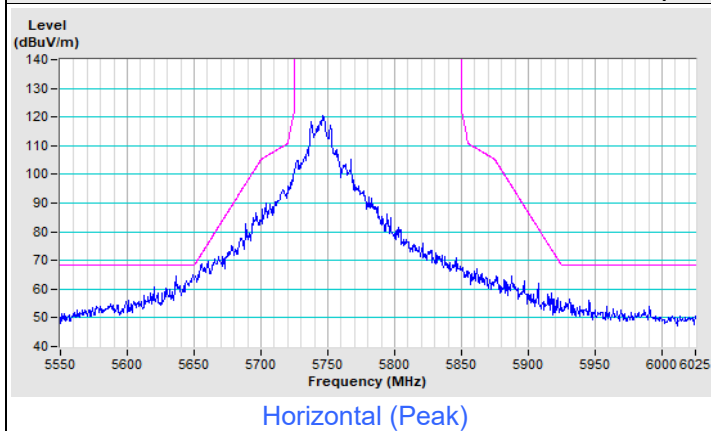


802.11a Channel 165

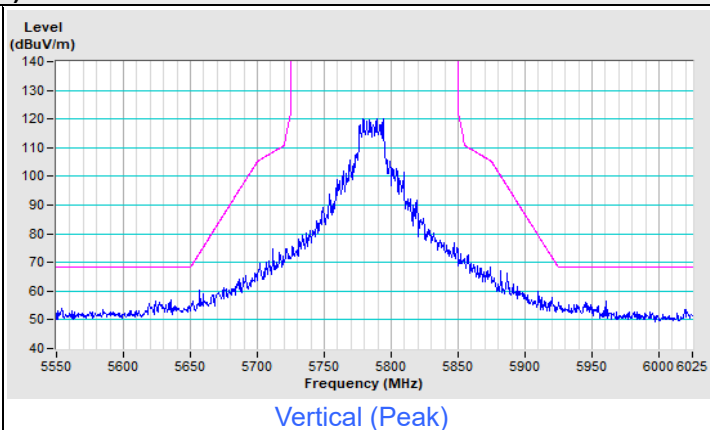
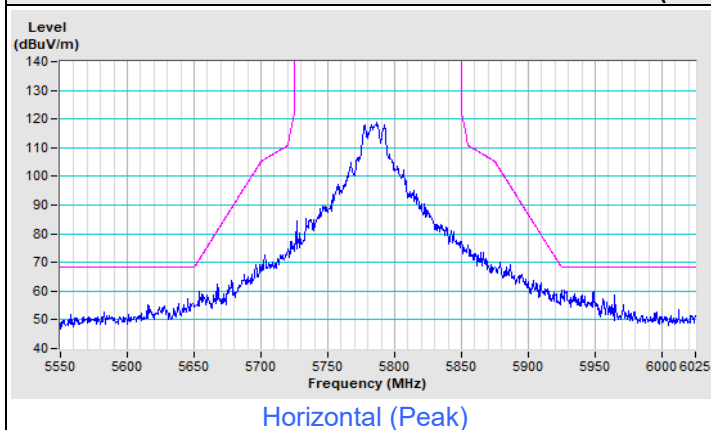


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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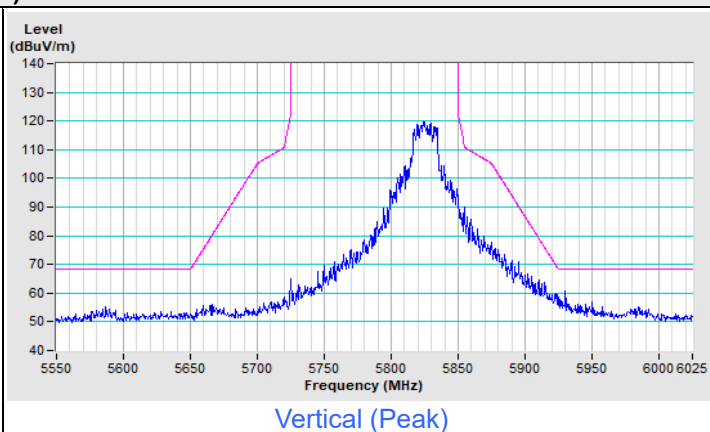
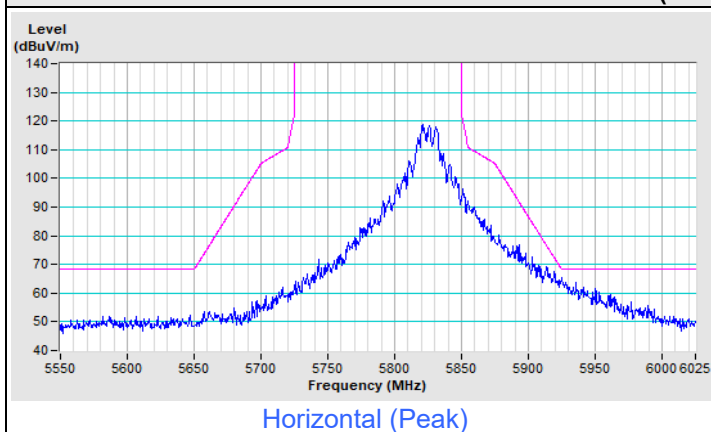
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

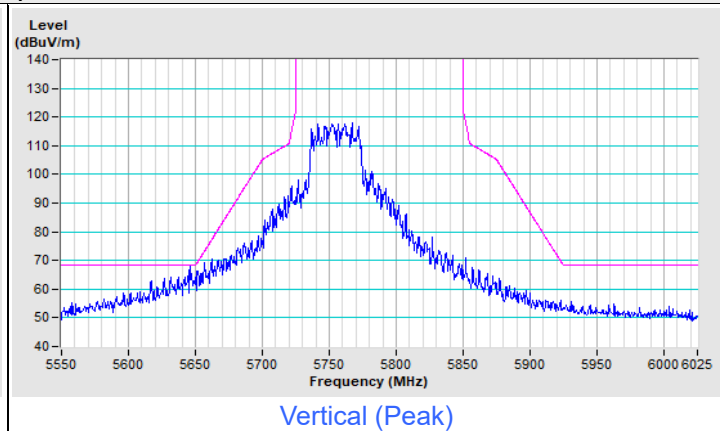
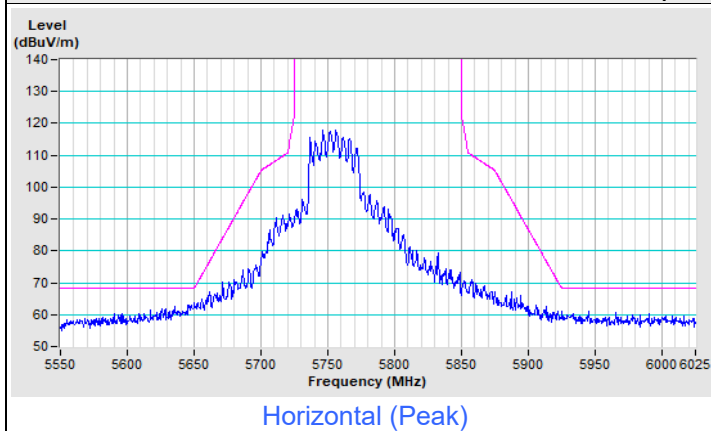


802.11ax (HE20) Channel 165

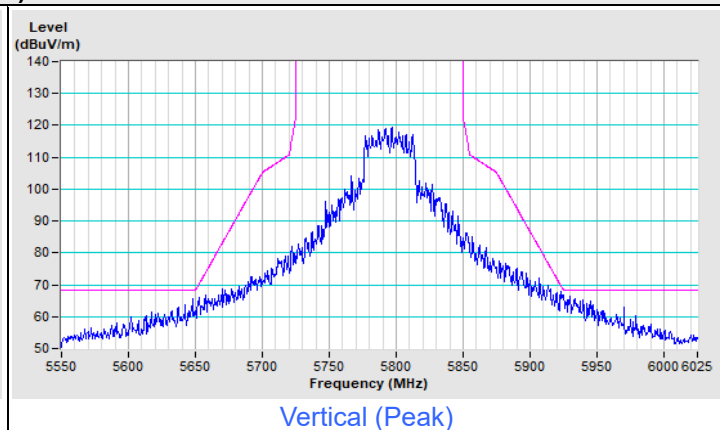
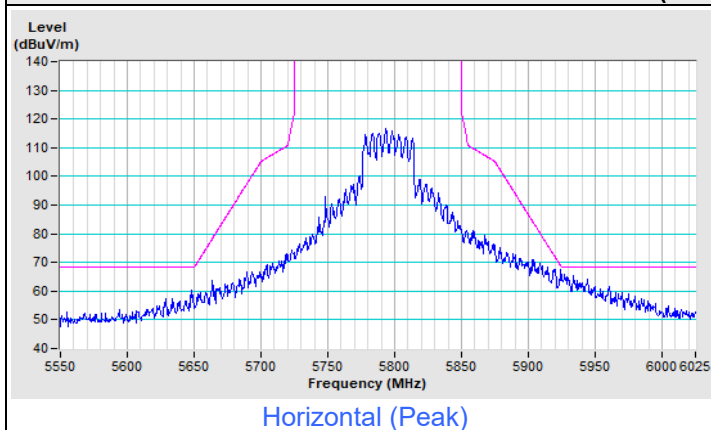


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

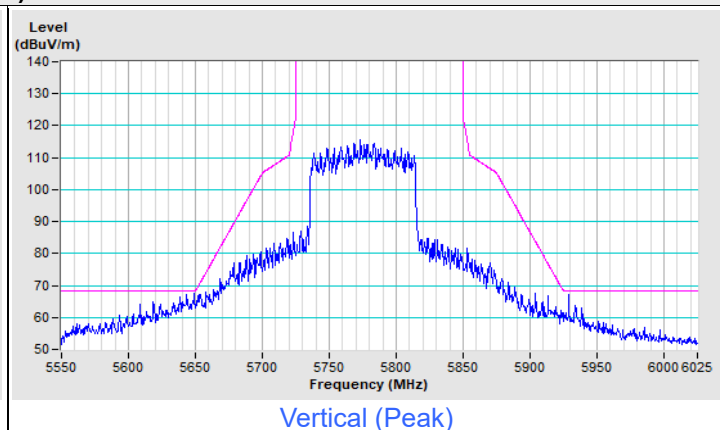
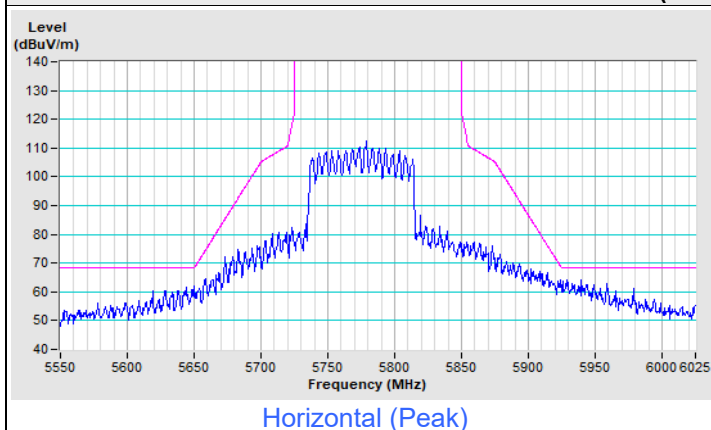


802.11ax (HE40) Channel 159



Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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