

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBCKS-WTW-P21123397A-1
FCC ID: 2AAAS-BB02
Product: Vivint Air Tower
Brand: Vivint, Inc.
Model No.: BB02
Received Date: 2025/1/6
Test Date: 2025/4/29 ~ 2025/6/20
Issued Date: 2025/7/22
Applicant: Vivint, Inc.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
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FCC Registration / 788550 / TW0003
Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/7/22

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Prepared by : Celine Chou / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P21123397A-1	Original release.	2025/7/22

1 Certificate

Product: Vivint Air Tower

Brand: Vivint, Inc.

Test Model: BB02

Sample Status: Engineering sample

Applicant: Vivint. Inc.

Test Date: 2025/4/29 ~ 2025/6/20

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

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 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(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.72 dB at 0.45000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.5 dB at 42.61 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 -0.5 dB at 5470.00 MHz and 5725.00 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:

Parameter	Specification	Uncertainty (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Vivint Air Tower
Brand	Vivint, Inc.
Test Model	BB02
Status of EUT	Engineering sample
Power Supply Rating	12Vdc 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 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.50 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	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
Output Power	5.18 GHz ~ 5.24 GHz: 662.062 mW (28.21 dBm) 5.26 GHz ~ 5.32 GHz: 247.047 mW (23.93 dBm) 5.50 GHz ~ 5.72 GHz: 211.614 mW (23.26 dBm) 5.745 GHz ~ 5.825 GHz: 733.053 mW (28.65 dBm)
EUT Category	Indoor Access Point Client device

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report (BV CPS report no.: RFBCKS-WTW-P21123397-1) is added WLAN 2.4G without filter SKU, changed WLAN 5G 2nd source filter (Filter 1/2) and updated applicant's address. All test data had been re-tested.

2. The EUT has below radios as following table:

Radio 1	Radio 2
WLAN (2.4 GHz / 5 GHz Low Band / 5 GHz Scanning (only RX))	WLAN (5 GHz High Band / 5 GHz Scanning (only RX)) & Bluetooth

3. Simultaneously transmission condition.

Condition	Technology		
1	WLAN 2.4 GHz	WLAN 5 GHz (Low Band)	WLAN 5 GHz (High Band)
2	WLAN 5 GHz (Low Band)	WLAN 5 GHz (High Band)	Bluetooth

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

4. The EUT must be supplied with a power adapter and the following different models could be chosen:

No	Brand	Model No.	Spec.
1	HONOTO	ADS-24FUD-12 12024EPCU	AC Input : 100-240 Vdc, 50/60 Hz, 0.6 A DC Output : 12 Vdc, 2 A DC Output Cable : Unshielded, 1.51 m
2	ZB-Power	ZB-H120020A-88	AC Input : 100-240 Vdc, 50/60 Hz, 0.6 A DC Output : 12 Vdc, 2.0 A DC output Cable : Unshielded, 1.51 m

5. The EUT has below source items as following table:

Source Item	3.3V to 1.0V DC/DC converter	Package	PCB Board	E-CAP
G01(A)	AU1(RT5789BGJ8F)	SOT23	PCB A	Main Source
G01(B)	AU1(RT5789BGJ8F)	SOT23	PCB A	2nd Source
G02	AU1(RT5789BGJ8F)	SOT23	PCB B	2nd Source
G03	AU11 (JWH5276)	QFN	PCB B	2nd Source

Note: PCB A(48WHVA11.SGD) and PCB B(48WHVA11.0GA) Layout different with Package, adding Colay-out for QFN.

6. The EUT has two difference 2nd Filter.

2nd Filter	Brand	Part Number
Filter 1	Soshin	HMD0108N
	Soshin	HMD0109N
Filter 2	Soshin	HMD0158N
	Soshin	HMD0159N

7. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
5G1	0	WHVA1	4.5	5.15~5.35 (Scanning, RX only)	PIFA	None
5G2	1	WHVA1	4.5	5.47~5.85 (Scanning, RX only)	PIFA	None
ANT 2 (2a)	2G	48XKAB18	3.5	2.4~2.4835	Dipole	ipex(MHF)
	5GL		3.1	5.15~5.35		
ANT 2 (2b)	5GH	48XKAB18	3.6	5.47~5.85	Dipole	ipex(MHF)
ANT 3 (3a)	2G	48XKAB19	2.7	2.4~2.4835	Dipole	ipex(MHF)
	5GL		3.7	5.15~5.35		
ANT 3 (3b)	BT	48XKAB19	2.9	2.4~2.4835 (BT)	Dipole	ipex(MHF)
	5GH		3.5	5.47~5.85		

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2. The EUT incorporates a MIMO function:

Modulation Mode	5GHz Band (low band)		5GHz Band (high band)	
	Tx & Rx Configuration		Tx & Rx Configuration	
802.11a	2TX	2RX	2TX	2RX
802.11n (HT20)	2TX	2RX	2TX	2RX
802.11n (HT40)	2TX	2RX	2TX	2RX
802.11ac (VHT20)	2TX	2RX	2TX	2RX
802.11ac (VHT40)	2TX	2RX	2TX	2RX
802.11ac (VHT80)	2TX	2RX	2TX	2RX
802.11ax (HE20)	2TX	2RX	2TX	2RX
802.11ax (HE40)	2TX	2RX	2TX	2RX
802.11ax (HE80)	2TX	2RX	2TX	2RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. 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.
3. 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) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz). Therefore the investigated worst case is the 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

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		

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 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: Brand: HONOTO, Model: ADS-24FUD-12 12024EPCU / Brand: ZB-Power, Model: ZB-H120020A-88. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. For RE Below 1GHz has the following source items: G01(A) / G01(B) / G02 / G03. Pre-scan these source items and find the worst case as a representative test condition. 3. 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). 4. The EUT has two difference WLAN 5G 2nd source filters: Filter 1 / Filter 2. Pre-scan these models of Filters and find the worst case as a representative test condition.
Worst Case:	1. AC Adapter Worst Condition: Brand: HONOTO, Model: ADS-24FUD-12 12024EPCU. 2. Source items for RE Below 1GHz Worst Condition: G01(A). 3. The EUT is designed to be positioned on the Z-Plane only. 4. WLAN 5G 2nd source filters Worst Condition: Filter 2.

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

Test Item	EUT Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	Master Mode	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
RF Output Power	Master Mode	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		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
	Client Mode	802.11a	CDD	36, 40, 48	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42	BPSK	MCS0

Test Item	EUT Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Power Spectral Density	Master Mode	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
	Client Mode	802.11a	CDD	36, 40, 48	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46	BPSK	MCS0
		802.11ax (HE80)	CDD	42	BPSK	MCS0
6 dB Bandwidth	Master Mode	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
Occupied Bandwidth	Master Mode	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
AC Power Conducted Emissions	Master Mode	802.11a	CDD	149	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	Master Mode	802.11a	CDD	149	BPSK	6Mb/s

Test Item	EUT Category	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	Master Mode	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
Note: 5GHz Radio condition: Radio 1: U_NII 1 and U_NII 2A bands Radio 2: U_NII 2C and U_NII 3 bands						

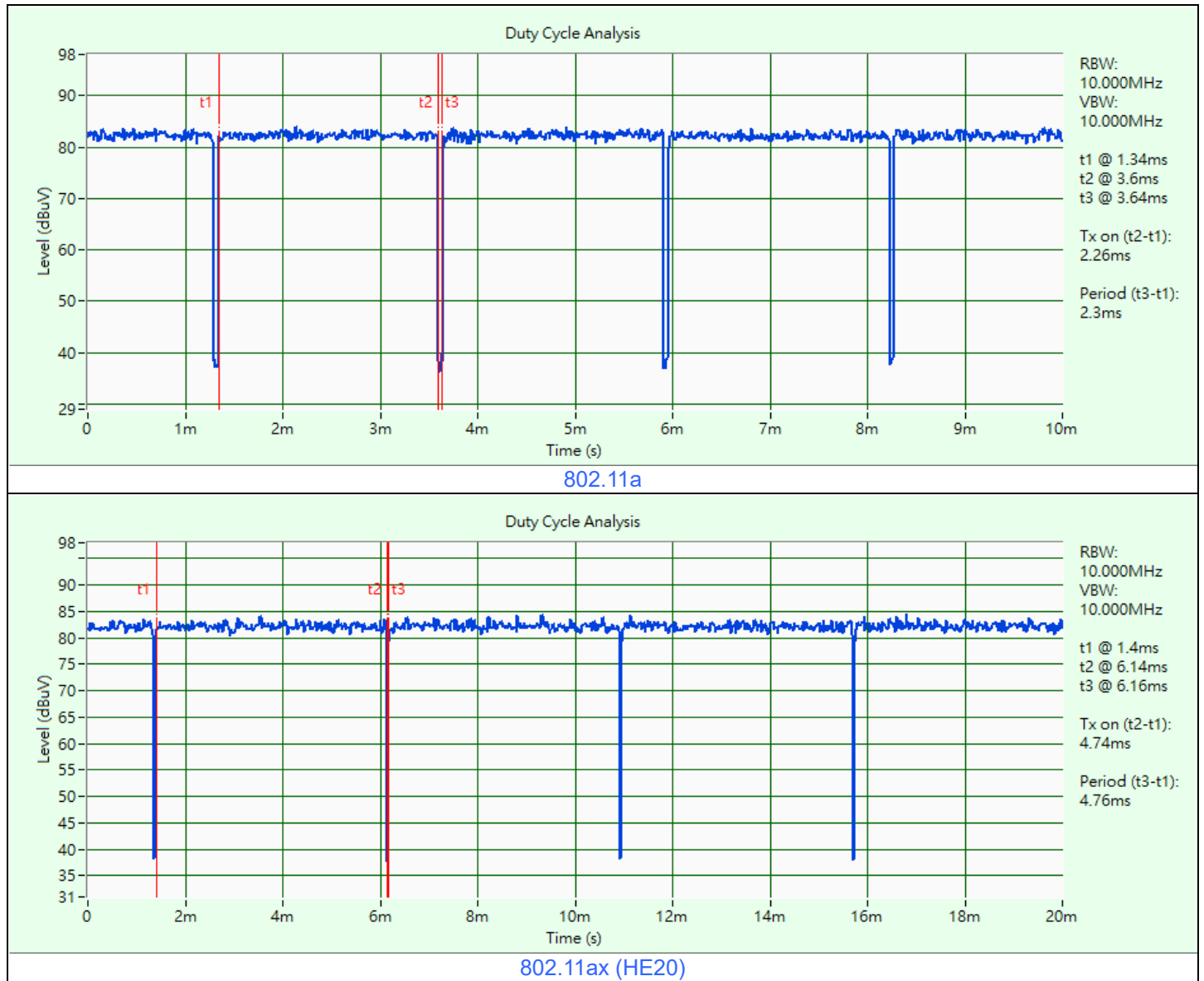
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.26 ms / 2.3 ms x 100% = 98.3%

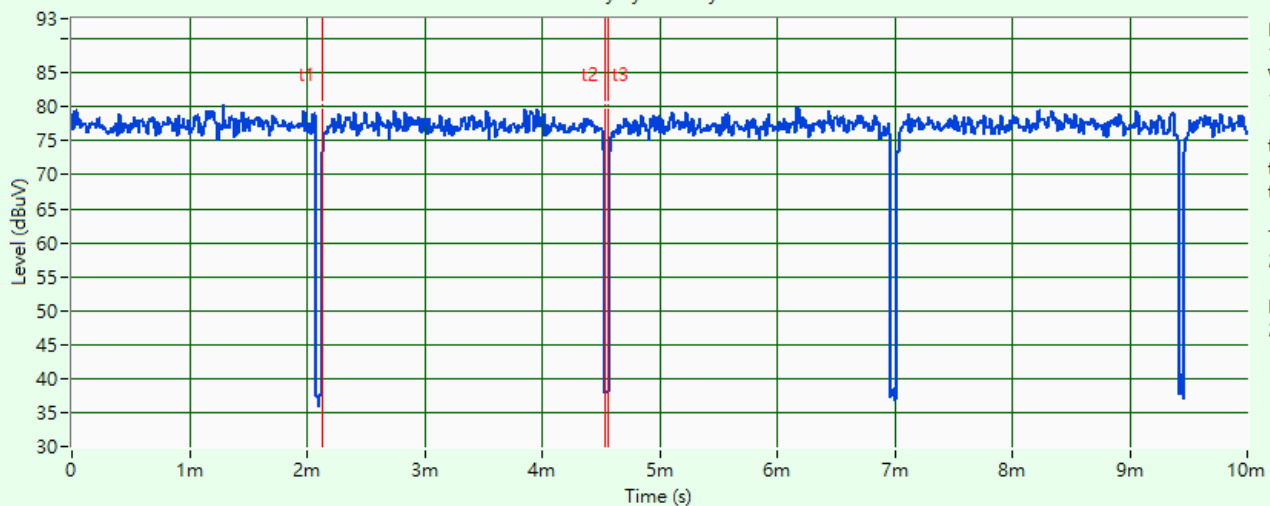
802.11ax (HE20): Duty cycle = 4.74 ms / 4.76 ms x 100% = 99.6%

802.11ax (HE40): Duty cycle = 2.4 ms / 2.43 ms x 100% = 98.8%

802.11ax (HE80): Duty cycle = 2.35 ms / 2.39 ms x 100% = 98.3%

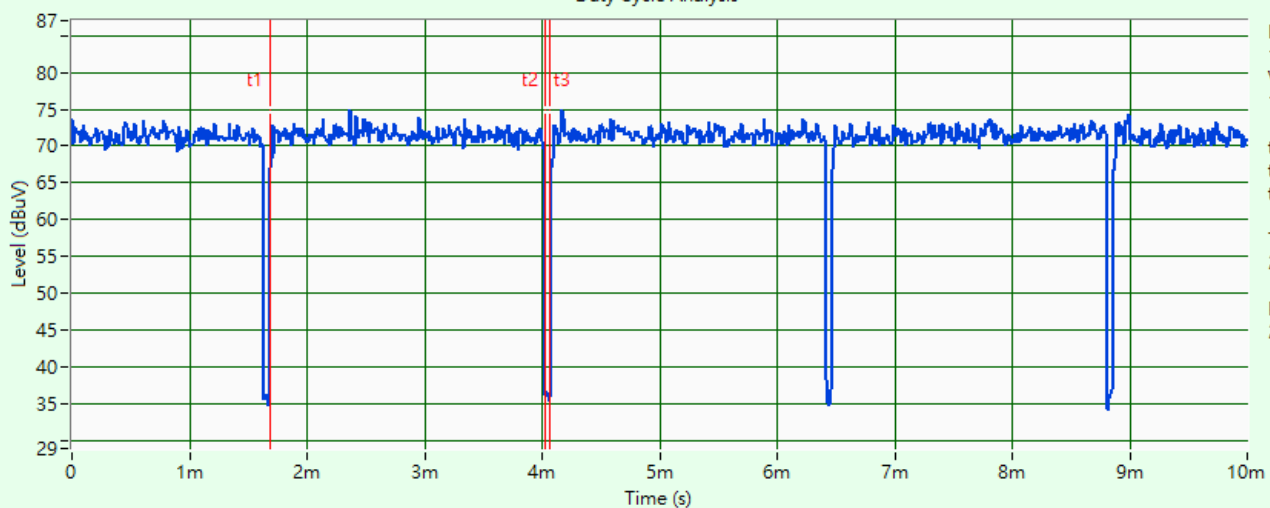


Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis

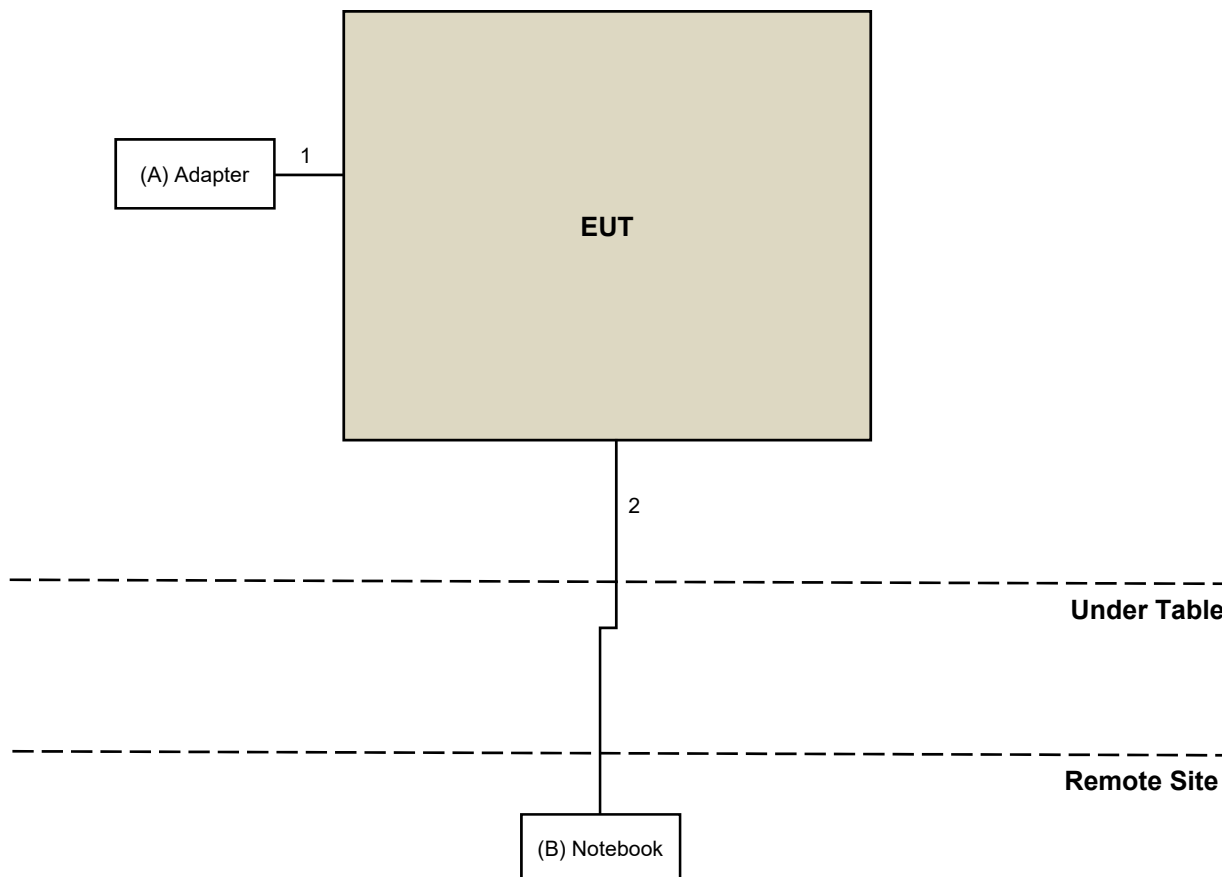


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software QA UI(MT7915) Version: 0.0.2.15 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	HONOTO	ADS-24FUD-12 12024EPCU	N/A	N/A	Accessory of EUT
B	Notebook	DELL	Inspiron 14R	8LRKKW1	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.51	Y	0	Accessory of EUT
2	RJ-45 Cable	1	10	N	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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/20

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/20

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
Fixed Attenuator STI	BNC5W10dB	PAD-COND2-01	2024/8/25	2025/8/24
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/5/8

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 330H	980112	2024/9/24	2025/9/23
	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/5/8

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2024/11/10	2025/11/9
	BBHA 9170	148	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 012645	980115	2024/9/24	2025/9/23
	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
	EMC104-SM-SM- 8000+3000	171005	2024/9/24	2025/9/23
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/4/29 ~ 2025/5/8

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 Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	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 Points	
	Indoor Access Point	
	Client devices	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 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.

5.7 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).

5.8 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.

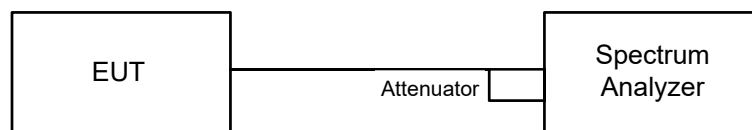
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

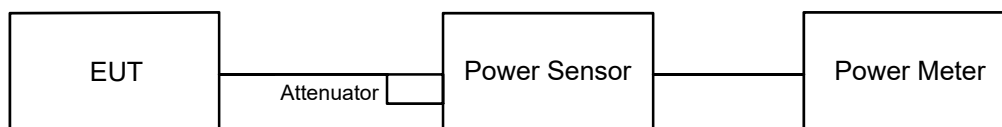


6.1.2 Test Procedure

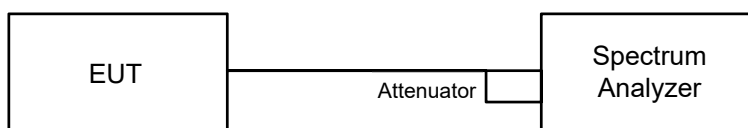
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

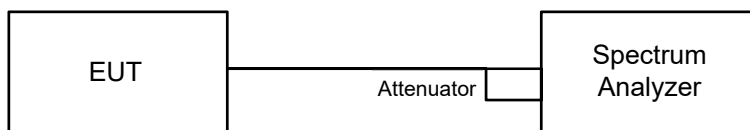
Method SA-1

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, 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

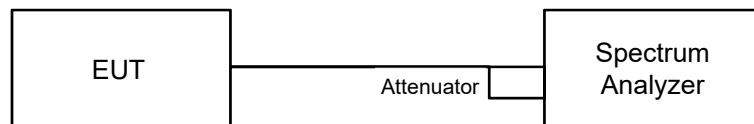
For specified measurement bandwidth 500 kHz:

Method SA-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

6.4 6 dB Bandwidth

6.4.1 Test Setup

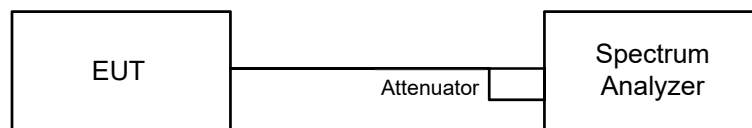


6.4.2 Test Procedure

- 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

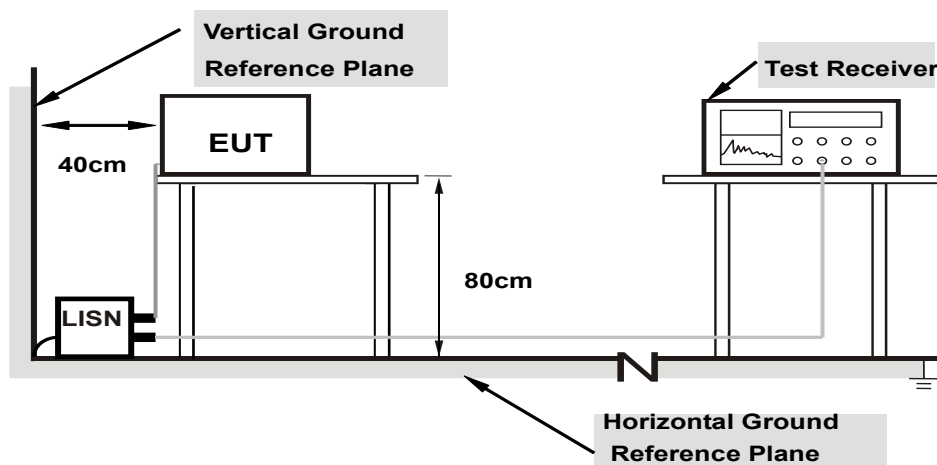


6.5.2 Test Procedure

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 AC Power Conducted Emissions

6.6.1 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).

6.6.2 Test Procedure

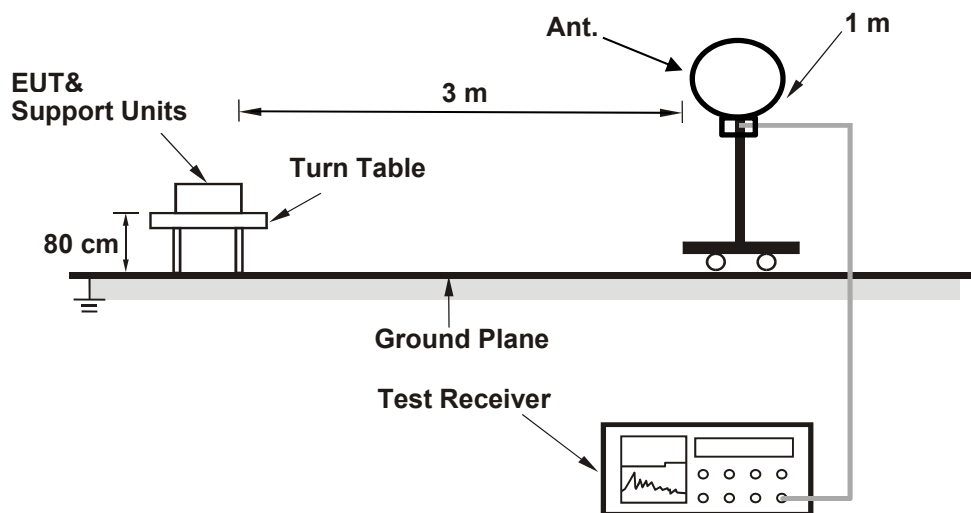
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

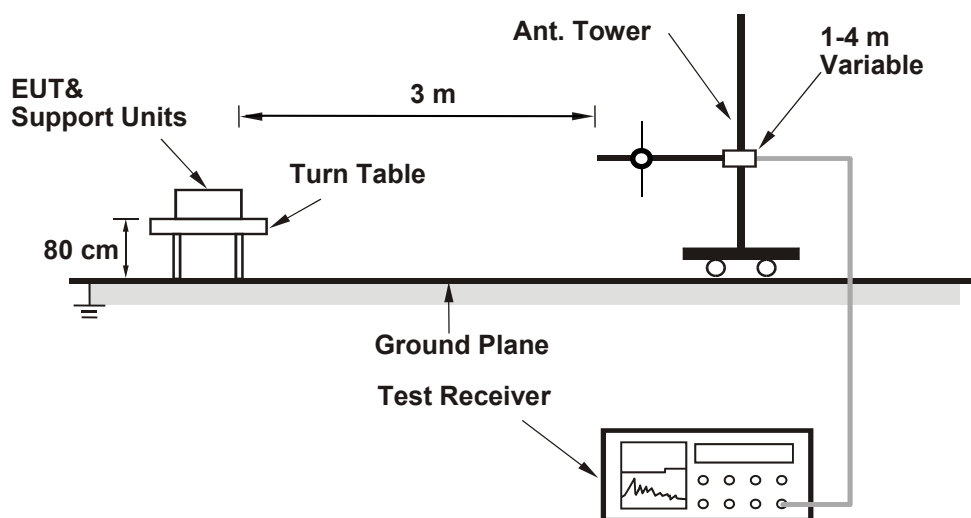
6.7 Unwanted Emissions below 1 GHz

6.7.1 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).

6.7.2 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

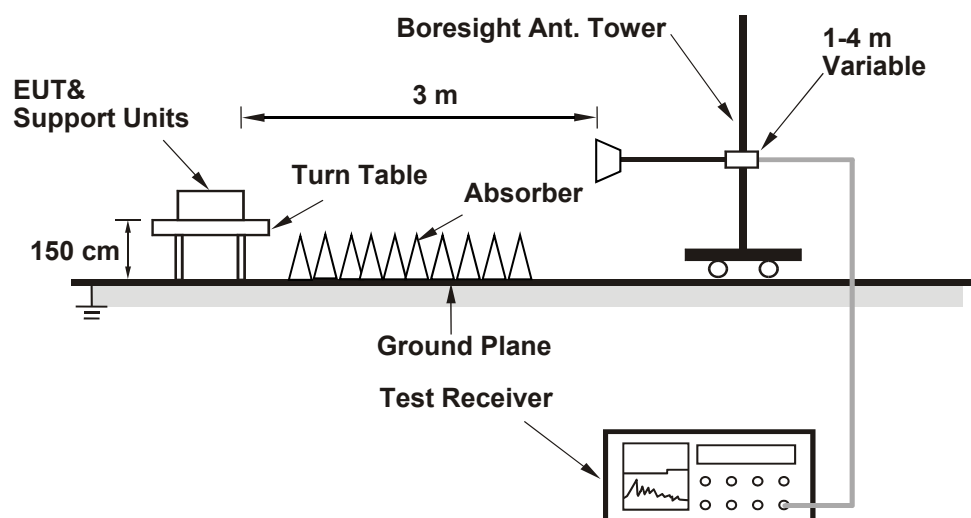
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 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:	Chris Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.97	19.91
60	5300	19.98	20.04
64	5320	20.89	20.90
100	5500	19.98	19.75
116	5580	19.98	19.85
140	5700	19.93	19.93
144 (U-NII-2C)	5720	15.00	15.01
144 (U-NII-3)	5720	4.86	4.93

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.91	23.99	<	24
60	5300	19.98	24.00	=	24
64	5320	20.89	24.19	>	24
100	5500	19.75	23.95	<	24
116	5580	19.85	23.97	<	24
140	5700	19.93	23.99	<	24
144 (U-NII-2C)	5720	15.00	22.76	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.99	22.53
60	5300	21.34	22.16
64	5320	22.78	22.94
100	5500	21.44	22.22
116	5580	21.23	21.43
140	5700	21.21	21.50
144 (U-NII-2C)	5720	16.72	17.06
144 (U-NII-3)	5720	6.72	5.46

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.99	24.22 > 24
60	5300	21.34	24.29 > 24
64	5320	22.78	24.57 > 24
100	5500	21.44	24.31 > 24
116	5580	21.23	24.26 > 24
140	5700	21.21	24.26 > 24
144 (U-NII-2C)	5720	16.72	23.23 < 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	44.94	41.00
62	5310	47.73	39.51
102	5510	39.38	59.17
110	5550	39.44	39.57
134	5670	39.54	39.67
142 (U-NII-2C)	5710	34.85	37.52
142 (U-NII-3)	5710	4.78	6.89

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.00	27.12 > 24
62	5310	39.51	26.96 > 24
102	5510	39.38	26.95 > 24
110	5550	39.44	26.95 > 24
134	5670	39.54	26.97 > 24
142 (U-NII-2C)	5710	34.85	26.42 > 24

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

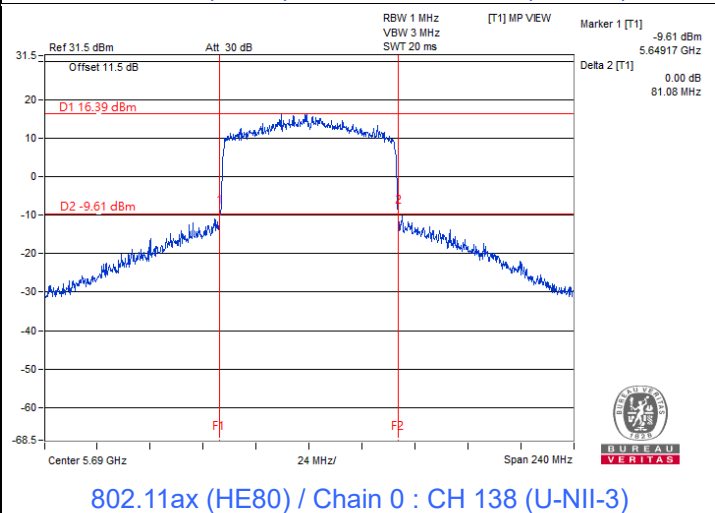
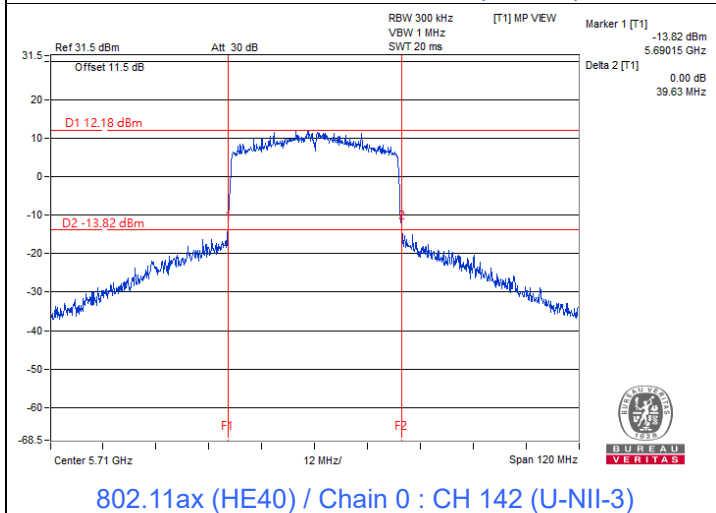
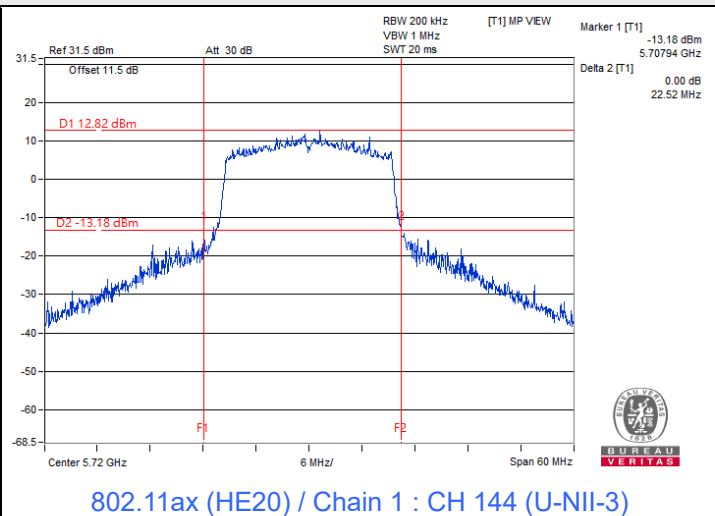
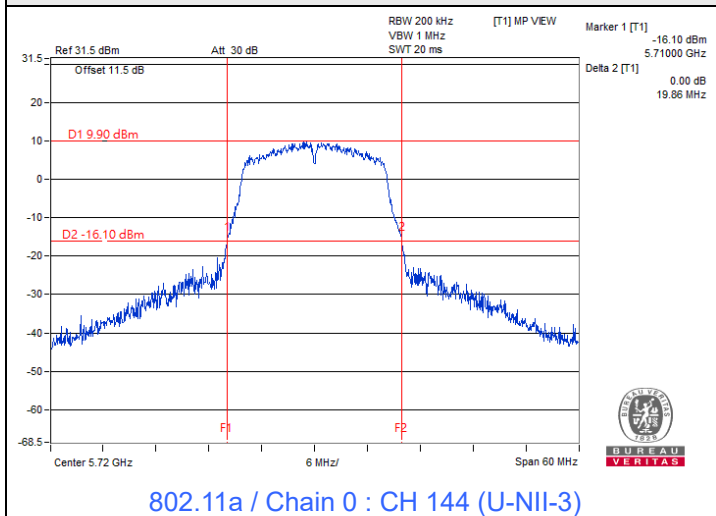
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	80.56	80.56
106	5530	80.30	80.53
122	5610	80.67	80.60
138 (U-NII-2C)	5690	75.83	75.32
138 (U-NII-3)	5690	5.25	5.26

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	80.56	30.06 > 24
106	5530	80.30	30.04 > 24
122	5610	80.60	30.06 > 24
138 (U-NII-2C)	5690	75.32	29.76 > 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

7.2 RF Output Power

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

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.49	22.65	361.496	25.58	30	Pass
40	5200	24.84	25.53	662.062	28.21	30	Pass
48	5240	22.97	23.19	406.602	26.09	30	Pass
52	5260	17.95	17.88	123.750	20.93	23.99	Pass
60	5300	17.91	17.86	122.896	20.90	24	Pass
64	5320	18.18	18.06	129.739	21.13	24	Pass
100	5500	18.43	18.84	146.222	21.65	23.95	Pass
116	5580	19.11	19.25	165.610	22.19	23.97	Pass
140	5700	16.89	18.51	119.823	20.79	23.99	Pass
*144 (U-NII-2C)	5720	18.30	18.25	134.443	21.29	22.76	Pass
*144 (U-NII-3)	5720	10.07	10.02	20.209	13.06	30	Pass
149	5745	25.94	25.32	733.053	28.65	30	Pass
157	5785	25.82	25.23	715.371	28.55	30	Pass
165	5825	25.79	25.11	703.655	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 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.42	22.11	301.230	24.79	30	Pass
40	5200	24.62	25.32	630.143	27.99	30	Pass
48	5240	22.47	22.69	362.384	25.59	30	Pass
52	5260	19.96	20.93	222.963	23.48	24	Pass
60	5300	19.83	20.41	206.062	23.14	24	Pass
64	5320	19.24	19.83	180.107	22.56	24	Pass
100	5500	18.24	18.57	138.626	21.42	24	Pass
116	5580	20.04	19.18	183.720	22.64	24	Pass
140	5700	18.13	18.32	132.933	21.24	24	Pass
*144 (U-NII-2C)	5720	18.59	18.45	142.261	21.53	23.23	Pass
*144 (U-NII-3)	5720	11.92	11.59	29.981	14.77	30	Pass
149	5745	25.68	25.11	694.168	28.41	30	Pass
157	5785	25.49	24.97	668.048	28.25	30	Pass
165	5825	25.33	24.62	630.927	28.00	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 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.34	19.90	183.625	22.64	30	Pass
46	5230	23.08	24.25	469.308	26.71	30	Pass
54	5270	20.51	21.29	247.047	23.93	24	Pass
62	5310	19.91	20.52	210.669	23.24	24	Pass
102	5510	16.58	17.07	96.432	19.84	24	Pass
110	5550	20.28	20.21	211.614	23.26	24	Pass
134	5670	20.03	19.84	197.076	22.95	24	Pass
*142 (U-NII-2C)	5710	19.24	20.24	189.628	22.78	24	Pass
*142 (U-NII-3)	5710	7.78	8.89	13.743	11.38	30	Pass
151	5755	24.06	23.88	499.026	26.98	30	Pass
159	5795	25.45	24.94	662.641	28.21	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 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.89	17.55	105.751	20.24	30	Pass
58	5290	19.85	20.71	214.366	23.31	24	Pass
106	5530	15.83	17.24	91.249	19.60	24	Pass
122	5610	20.17	20.06	205.383	23.13	24	Pass
*138 (U-NII-2C)	5690	19.87	20.01	197.282	22.95	24	Pass
*138 (U-NII-3)	5690	4.43	4.28	5.452	7.37	30	Pass
155	5775	21.11	21.39	266.843	24.26	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 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.42	22.11	301.230	24.79	29.58	Pass
40	5200	24.62	25.32	630.143	27.99	29.58	Pass
48	5240	22.47	22.69	362.384	25.59	29.58	Pass
52	5260	19.96	20.33	206.978	23.16	23.58	Pass
60	5300	19.83	20.41	206.062	23.14	23.58	Pass
64	5320	19.24	19.83	180.107	22.56	23.58	Pass
100	5500	18.24	18.57	138.626	21.42	23.44	Pass
116	5580	20.04	19.18	183.720	22.64	23.44	Pass
140	5700	18.13	18.32	132.933	21.24	23.44	Pass
*144 (U-NII-2C)	5720	18.55	18.14	136.777	21.36	22.67	Pass
*144 (U-NII-3)	5720	11.26	11.46	27.362	14.37	29.44	Pass
149	5745	25.68	25.11	694.168	28.41	29.44	Pass
157	5785	25.49	24.97	668.048	28.25	29.44	Pass
165	5825	25.33	24.62	630.927	28.00	29.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.42 - 6) = 29.58$ dBm.
- For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.42 - 6)].
- For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.56 - 6)].
- For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.34	19.90	183.625	22.64	29.58	Pass
46	5230	23.08	24.25	469.308	26.71	29.58	Pass
54	5270	20.09	20.58	216.382	23.35	23.58	Pass
62	5310	19.91	20.52	210.669	23.24	23.58	Pass
102	5510	16.58	17.07	96.432	19.84	23.44	Pass
110	5550	19.68	20.21	197.851	22.96	23.44	Pass
134	5670	20.03	19.84	197.076	22.95	23.44	Pass
*142 (U-NII-2C)	5710	19.19	18.75	157.974	21.99	23.44	Pass
*142 (U-NII-3)	5710	7.69	7.25	11.184	10.49	29.44	Pass
151	5755	24.06	23.88	499.026	26.98	29.44	Pass
159	5795	25.45	24.94	662.641	28.21	29.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.42 - 6) = 29.58$ dBm.
- For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.42 - 6)].
- For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.56 - 6)].
- For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm.

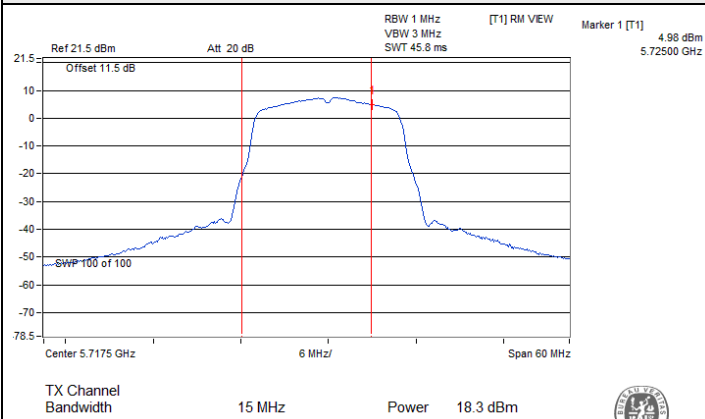
802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.89	17.55	105.751	20.24	29.58	Pass
58	5290	19.85	20.21	201.559	23.04	23.58	Pass
106	5530	15.83	17.24	91.249	19.60	23.44	Pass
122	5610	19.97	20.01	199.542	23.00	23.44	Pass
*138 (U-NII-2C)	5690	18.45	18.76	145.146	21.62	23.44	Pass
*138 (U-NII-3)	5690	3.24	3.75	4.480	6.51	29.44	Pass
155	5775	21.11	21.39	266.843	24.26	29.44	Pass

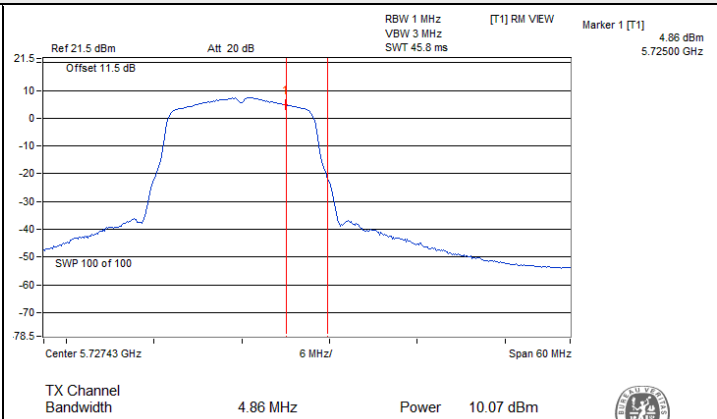
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.42-6) = 29.58$ dBm.
- For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.42-6)].
- For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.56-6)].
- For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.56-6) = 29.44$ dBm.

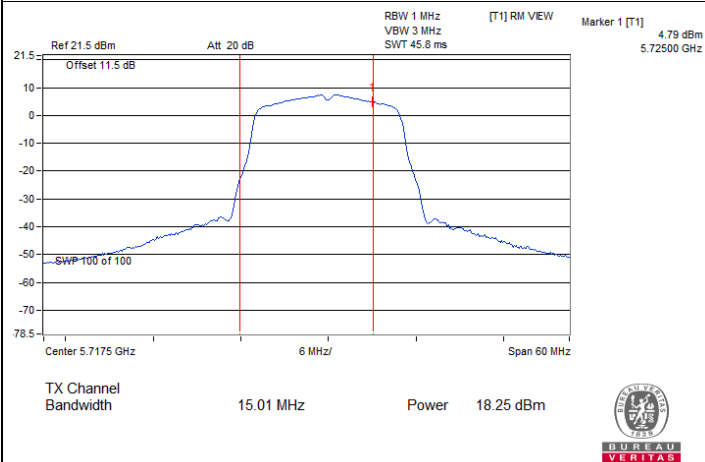
Spectrum Plot for channel straddling



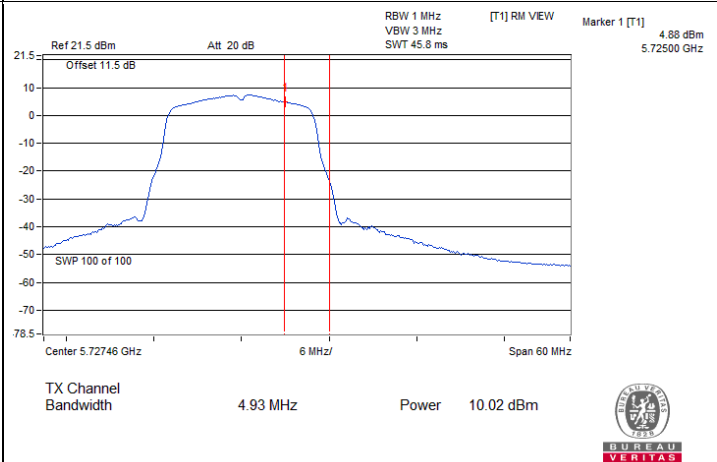
802.11a / Chain 0 : CH 144 (U-NII-2C)



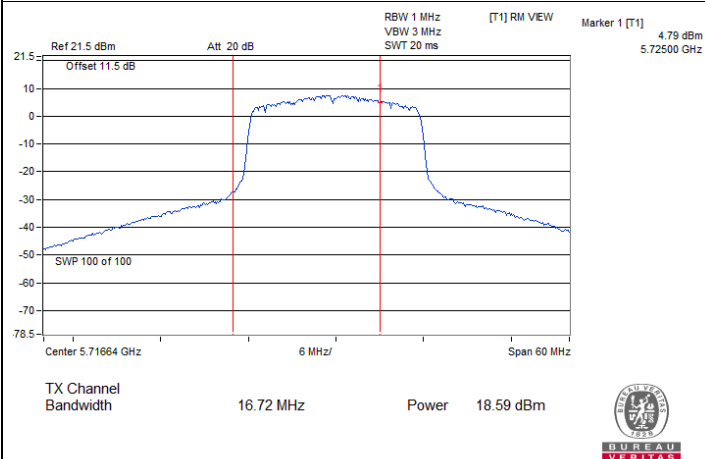
802.11a / Chain 0 : CH 144 (U-NII-3)



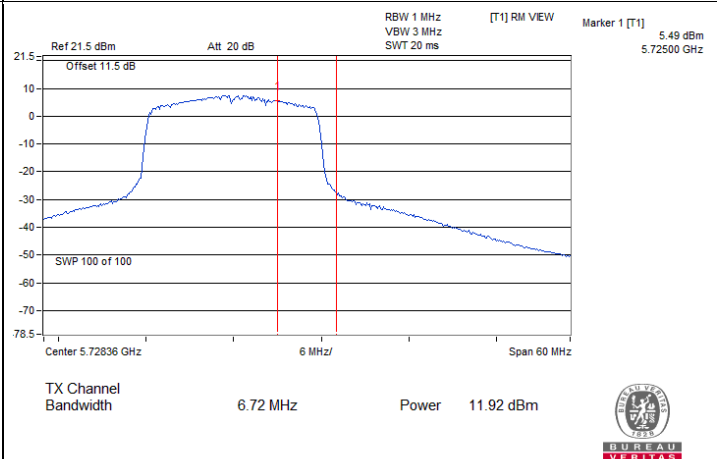
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

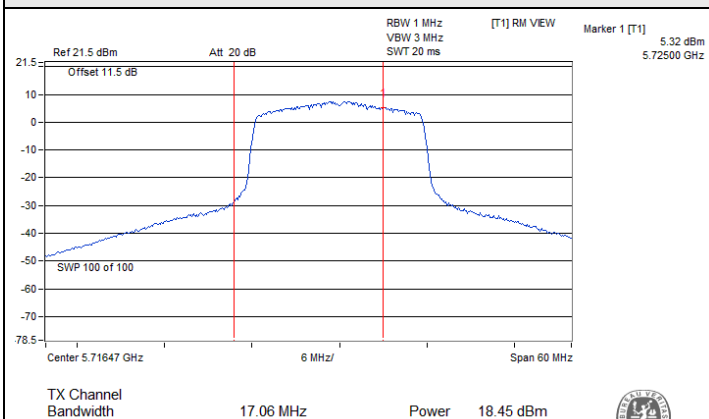


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)

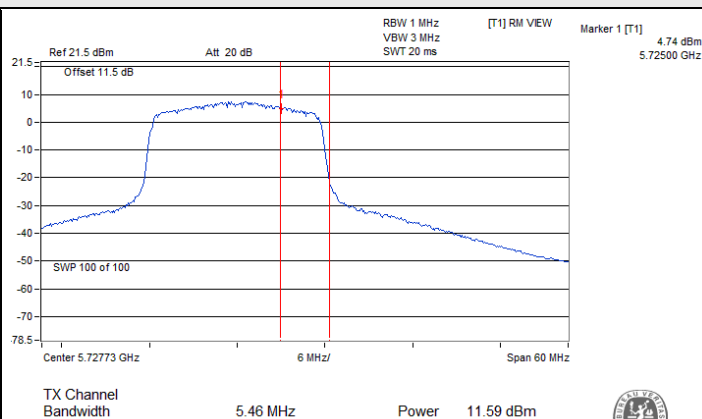


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

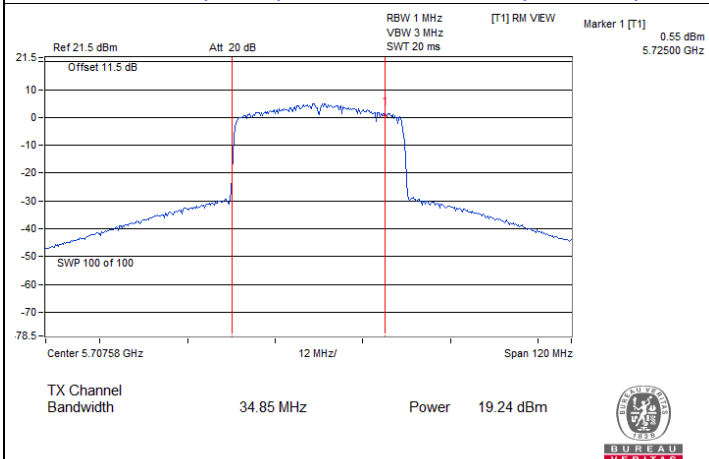
Spectrum Plot for channel straddling



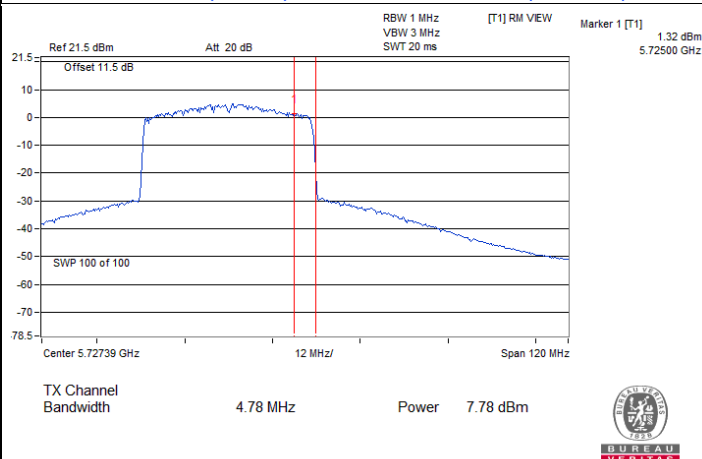
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



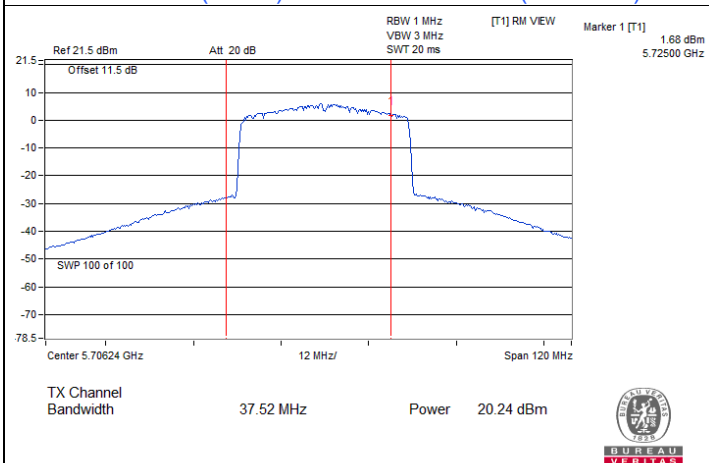
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



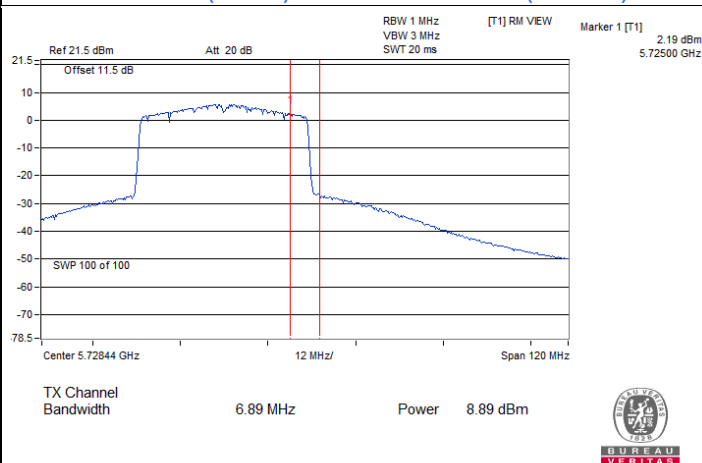
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



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

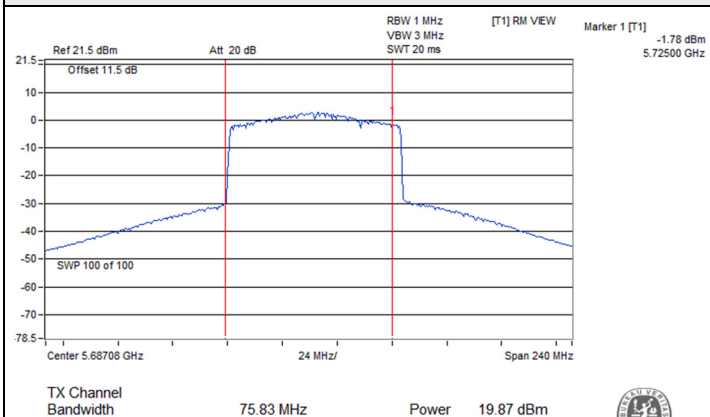


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)

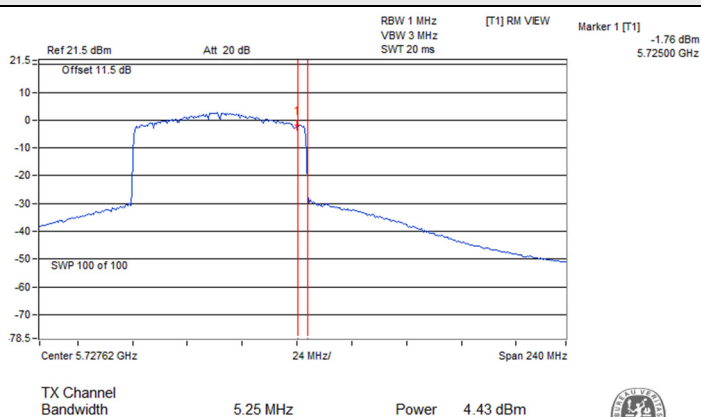


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

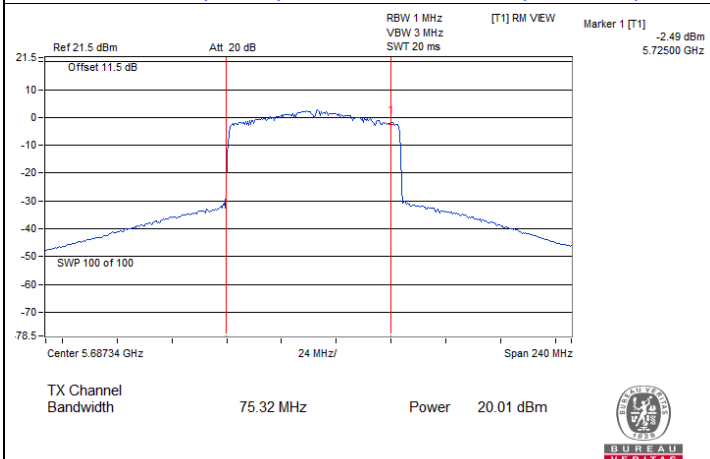
Spectrum Plot for channel straddling



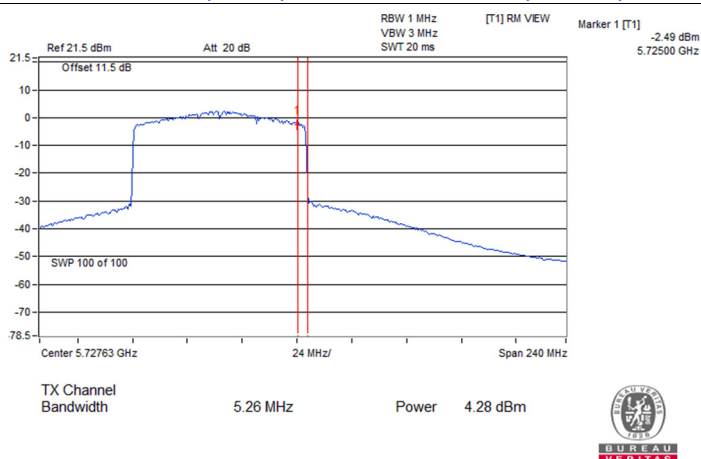
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



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



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

Client Mode

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	20.29	20.75	225.756	23.54	24	Pass
40	5200	20.36	20.54	221.883	23.46	24	Pass
48	5240	20.44	20.52	223.382	23.49	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	20.49	20.87	234.124	23.69	24	Pass
40	5200	20.64	20.83	236.938	23.75	24	Pass
48	5240	20.34	20.89	230.887	23.63	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.34	19.90	183.625	22.64	24	Pass
46	5230	20.65	20.83	237.205	23.75	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.89	17.55	105.751	20.24	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.7 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.99	20.37	208.663	23.19	23.58	Pass
40	5200	20.14	20.33	211.171	23.25	23.58	Pass
48	5240	19.84	20.39	205.779	23.13	23.58	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
2. For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.42 - 6) = 23.58$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.34	19.90	183.625	22.64	23.58	Pass
46	5230	20.05	20.23	206.597	23.15	23.58	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
2. For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.42 - 6) = 23.58$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	16.89	17.55	105.751	20.24	23.58	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
2. For U-NII-1, the directional gain is 6.42 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.42 - 6) = 23.58$ dBm.

7.3 Power Spectral Density

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	10.25	10.82	13.55	16.58	Pass
40	5200	13.06	13.49	16.29	16.58	Pass
48	5240	13.02	13.14	16.09	16.58	Pass
52	5260	7.29	6.99	10.15	10.58	Pass
60	5300	7.26	7.53	10.41	10.58	Pass
64	5320	7.17	7.44	10.32	10.58	Pass
100	5500	6.07	6.48	9.29	10.44	Pass
116	5580	7.17	7.60	10.40	10.44	Pass
140	5700	6.78	6.62	9.71	10.44	Pass
144 (U-NII-2C)	5720	7.20	7.58	10.40	10.44	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $17-(6.42-6) = 16.58$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.
- For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.56-6) = 10.44$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	8.42	8.51	11.48	16.58	Pass
40	5200	12.58	12.53	15.57	16.58	Pass
48	5240	10.49	10.56	13.54	16.58	Pass
52	5260	7.04	7.44	10.25	10.58	Pass
60	5300	7.37	7.51	10.45	10.58	Pass
64	5320	7.36	7.18	10.28	10.58	Pass
100	5500	5.35	5.93	8.66	10.44	Pass
116	5580	7.86	6.87	10.40	10.44	Pass
140	5700	5.60	5.42	8.52	10.44	Pass
144 (U-NII-2C)	5720	7.34	7.27	10.32	10.44	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $17-(6.42-6) = 16.58$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.
- For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.56-6) = 10.44$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	3.23	3.63	6.44	16.58	Pass
46	5230	7.10	8.58	10.91	16.58	Pass
54	5270	5.18	5.60	8.41	10.58	Pass
62	5310	5.10	5.12	8.12	10.58	Pass
102	5510	0.45	0.87	3.68	10.44	Pass
110	5550	4.26	4.39	7.34	10.44	Pass
134	5670	3.49	3.18	6.35	10.44	Pass
142 (U-NII-2C)	5710	4.55	4.62	7.60	10.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $17-(6.42-6) = 16.58$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.56-6) = 10.44$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-2.43	-2.31	0.64	16.58	Pass
58	5290	1.42	1.75	4.60	10.58	Pass
106	5530	-2.27	-1.51	1.14	10.44	Pass
122	5610	1.87	0.93	4.44	10.44	Pass
138 (U-NII-2C)	5690	1.44	1.40	4.43	10.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $17-(6.42-6) = 16.58$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.42 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.56-6) = 10.44$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-3.44	-3.10	-0.26	1.96	29.44	Pass
149	5745	6.54	6.26	9.41	11.63	29.44	Pass
157	5785	6.78	6.34	9.58	11.80	29.44	Pass
165	5825	6.97	6.39	9.7	11.92	29.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-3.78	-3.56	-0.66	1.56	29.44	Pass
149	5745	4.74	5.05	7.91	10.13	29.44	Pass
157	5785	5.09	5.09	8.1	10.32	29.44	Pass
165	5825	5.18	4.97	8.09	10.31	29.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-8.11	-8.15	-5.12	-2.90	29.44	Pass
151	5755	-0.04	-0.54	2.73	4.95	29.44	Pass
159	5795	1.66	0.75	4.24	6.46	29.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm/500kHz.

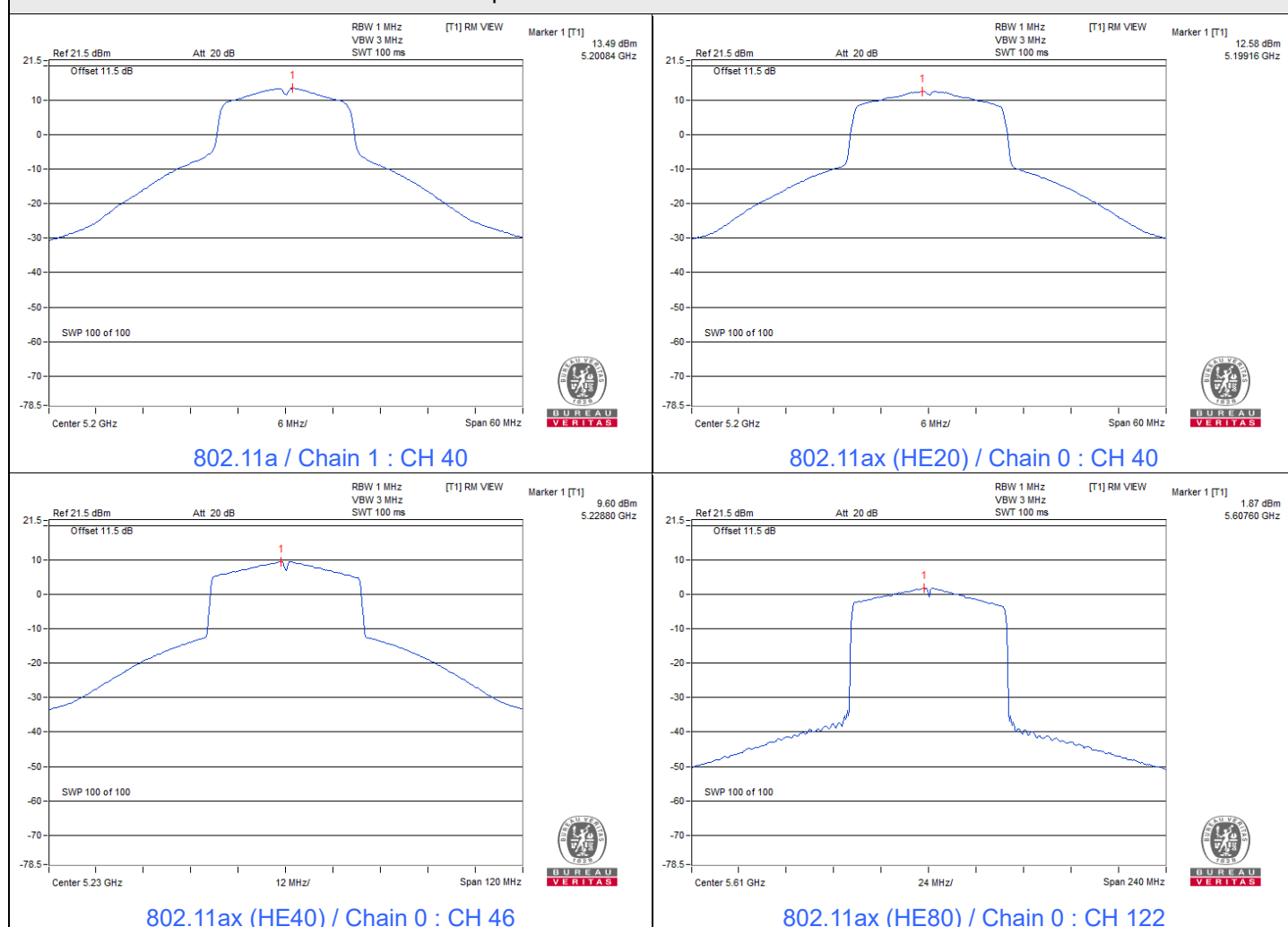
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-12.32	-11.55	-8.91	-6.69	29.44	Pass
155	5775	-5.77	-5.40	-2.57	-0.35	29.44	Pass

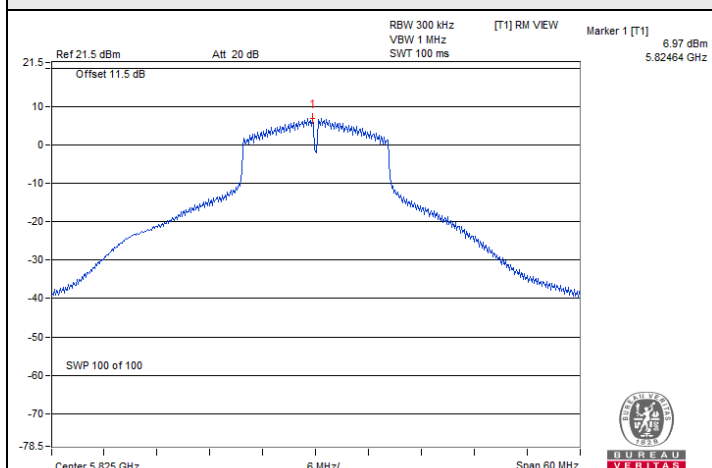
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 6.56 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.56 - 6) = 29.44$ dBm/500kHz.

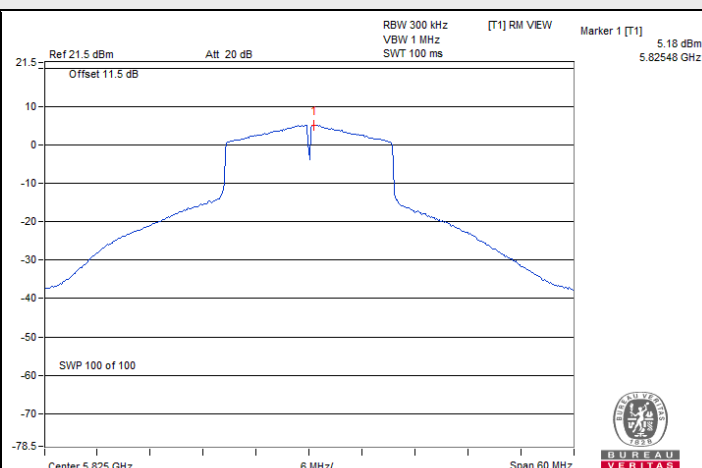
Spectrum Plot of Maximum Value



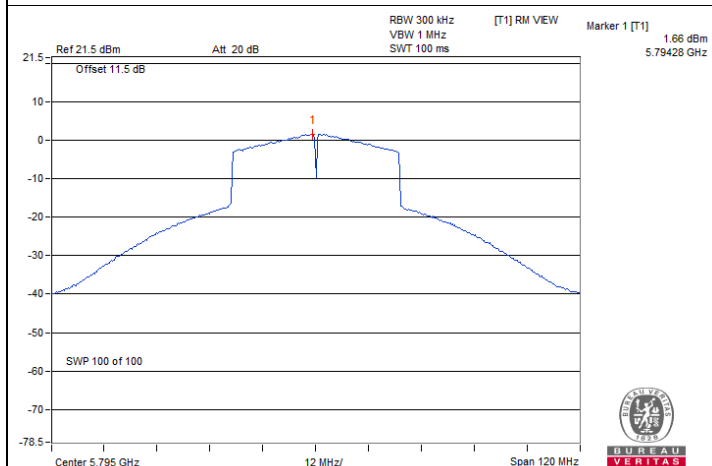
Spectrum Plot of Maximum Value



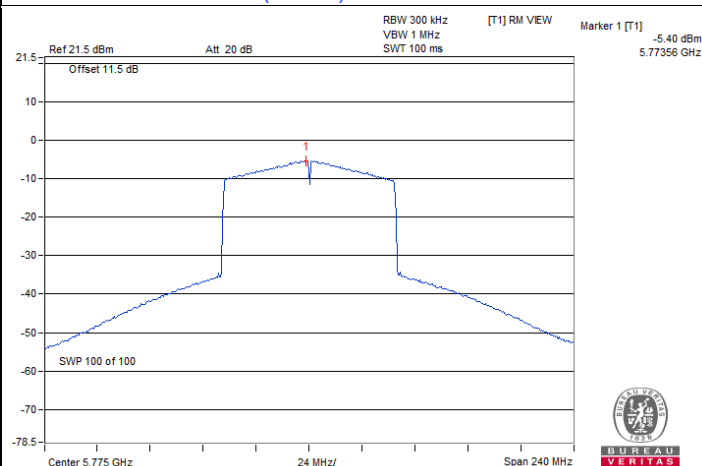
802.11a / Chain 0 : CH 165



802.11ax (HE20) / Chain 0 : CH 165



802.11ax (HE40) / Chain 0 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

Client Mode

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	7.15	7.83	10.51	10.58	Pass
40	5200	6.81	7.98	10.44	10.58	Pass
48	5240	7.26	7.72	10.51	10.58	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	7.06	7.82	10.47	10.58	Pass
40	5200	7.44	7.56	10.51	10.58	Pass
48	5240	7.41	7.66	10.55	10.58	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	3.35	3.56	6.47	10.58	Pass
46	5230	3.91	4.40	7.17	10.58	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58$ dBm/MHz.

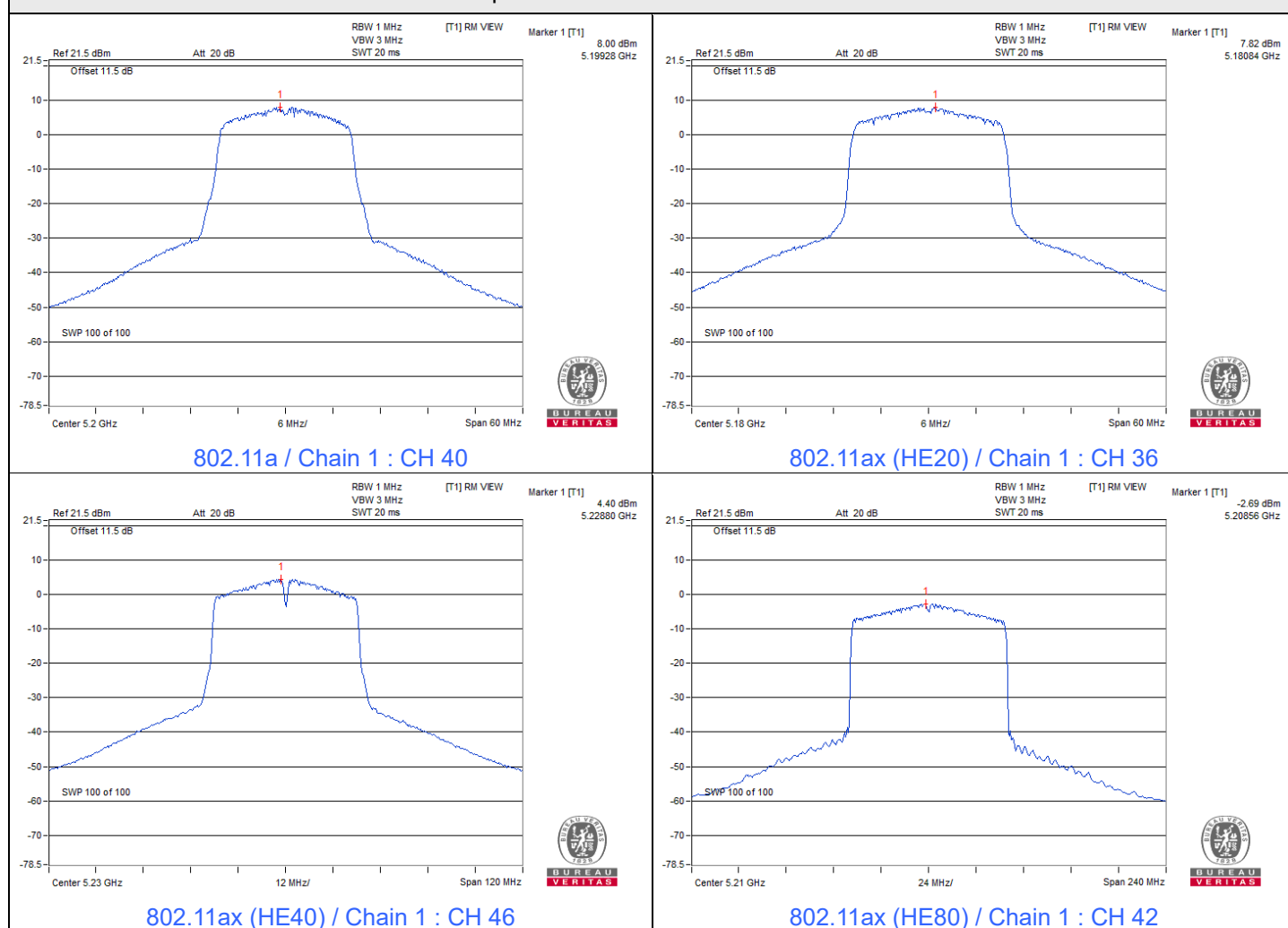
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-3.14	-2.69	0.10	10.58	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.42 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.42-6) = 10.58 \text{ dBm/MHz}$.

Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.57	2.56	0.5	Pass
149	5745	15.16	15.39	0.5	Pass
157	5785	15.15	16.31	0.5	Pass
165	5825	15.18	15.18	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.16	2.98	0.5	Pass
149	5745	17.99	17.57	0.5	Pass
157	5785	15.64	17.01	0.5	Pass
165	5825	16.42	16.80	0.5	Pass

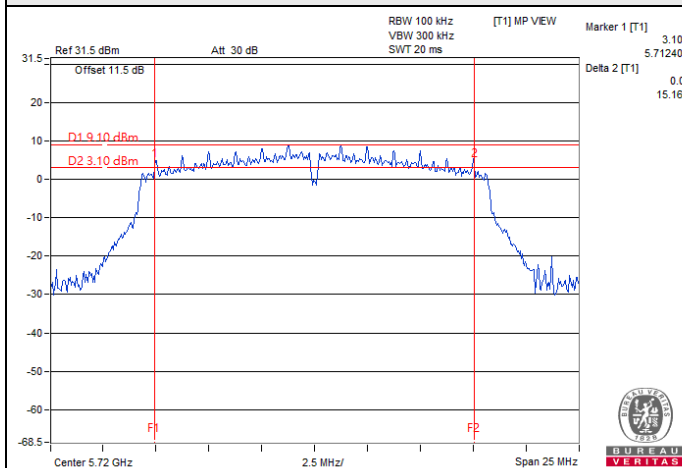
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	2.94	2.60	0.5	Pass
151	5755	35.26	35.20	0.5	Pass
159	5795	35.21	36.16	0.5	Pass

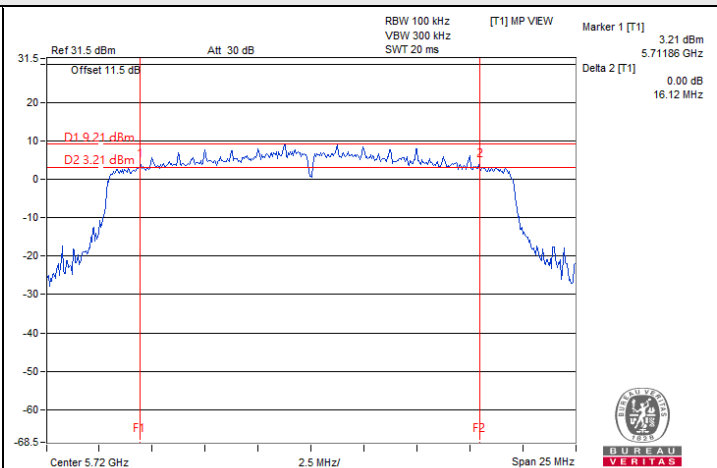
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.67	2.70	0.5	Pass
155	5775	75.43	75.32	0.5	Pass

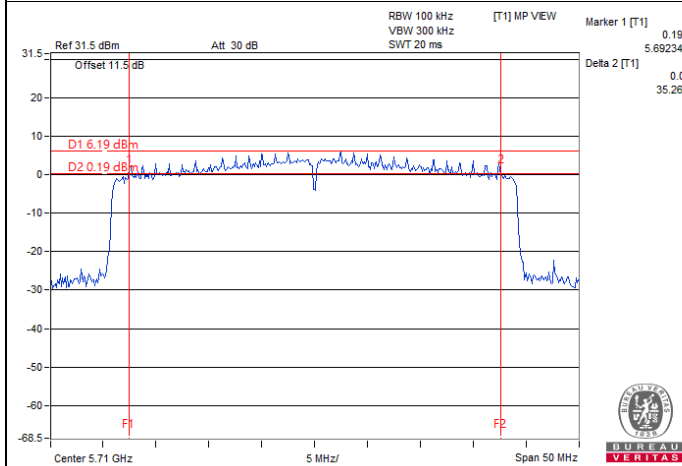
Spectrum Plot of Minimum Value



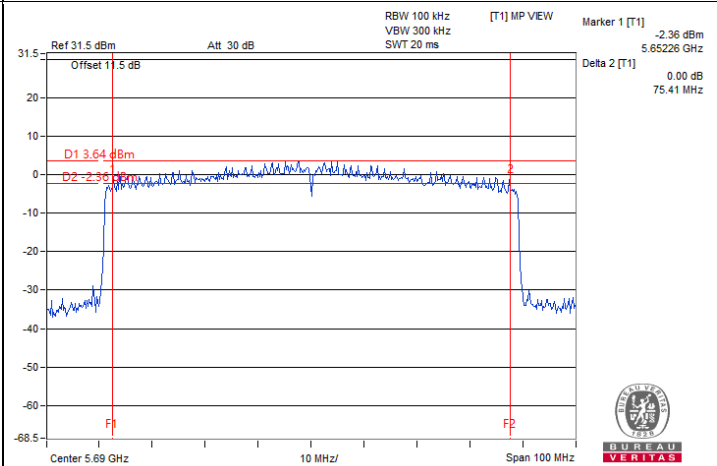
802.11a / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



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



802.11ax (HE80) / 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:	Chris Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.04	17.10
40	5200	24.60	24.06
48	5240	19.74	19.20
52	5260	16.62	16.62
60	5300	16.68	16.68
64	5320	16.62	16.62
100	5500	16.56	16.56
116	5580	16.56	16.56
140	5700	16.56	16.56
144 (U-NII-2C)	5720	13.40	13.40
144 (U-NII-3)	5720	3.16	3.16
149	5745	25.80	25.92
157	5785	22.56	24.24
165	5825	21.48	23.40

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.80	18.96
40	5200	23.82	25.44
48	5240	18.18	19.20
52	5260	16.68	19.02
60	5300	16.74	19.02
64	5320	16.68	19.02
100	5500	18.96	18.96
116	5580	18.96	18.96
140	5700	18.96	18.96
144 (U-NII-2C)	5720	14.60	14.60
144 (U-NII-3)	5720	4.48	4.36
149	5745	28.56	28.44
157	5785	27.24	26.76
165	5825	24.96	24.24

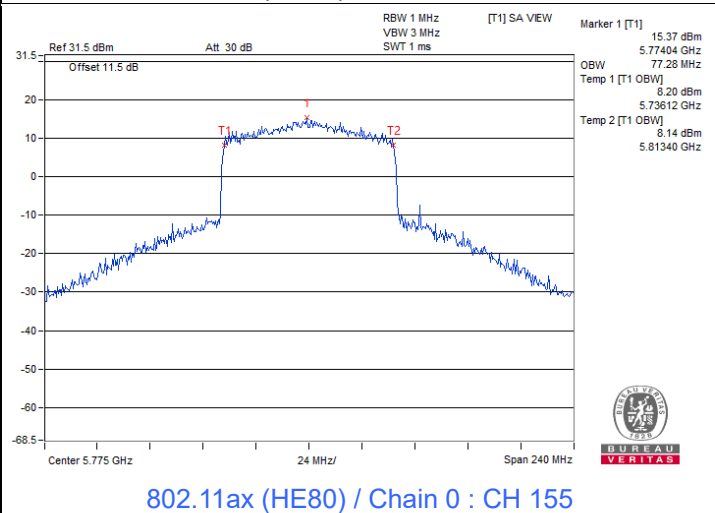
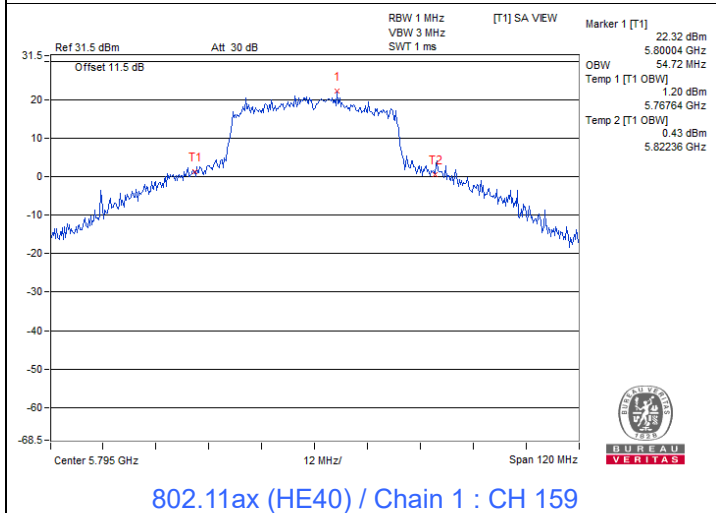
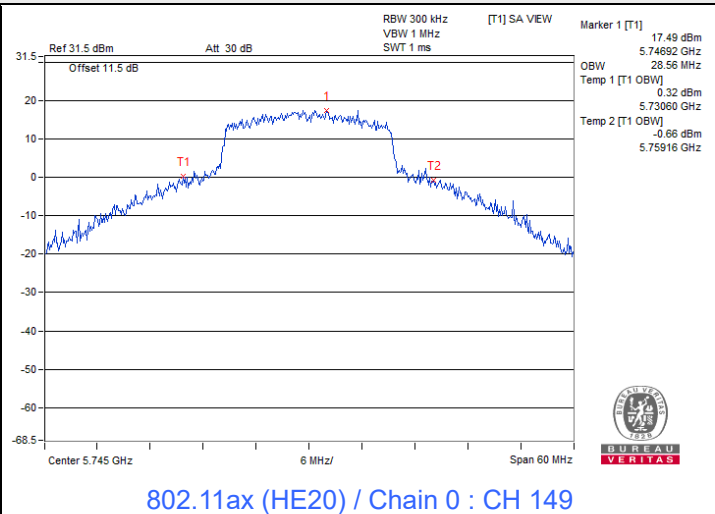
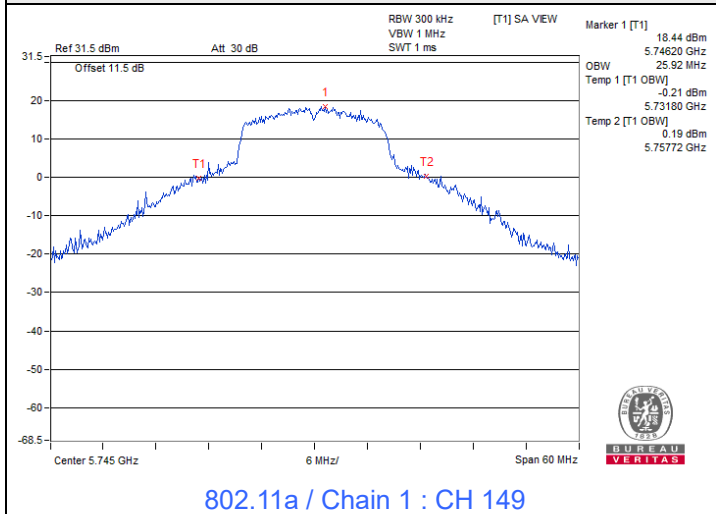
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.04	37.68
46	5230	40.56	39.36
54	5270	37.92	37.80
62	5310	37.80	37.68
102	5510	37.68	38.16
110	5550	37.68	37.56
134	5670	37.80	37.68
142 (U-NII-2C)	5710	33.96	33.96
142 (U-NII-3)	5710	3.72	3.72
151	5755	40.08	41.28
159	5795	50.64	54.72

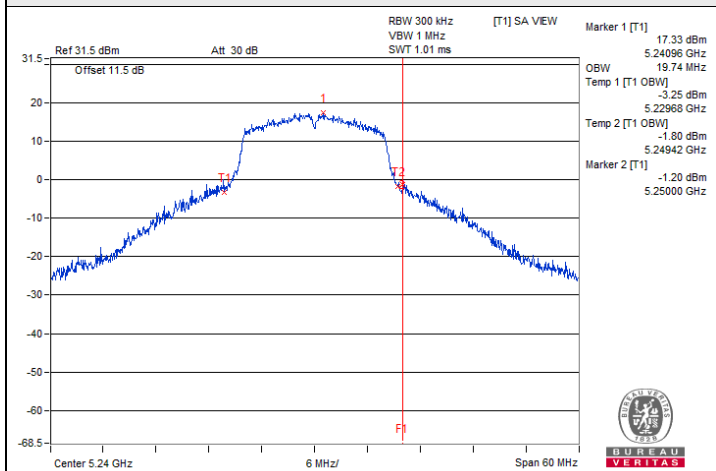
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.56	76.80
58	5290	76.56	76.56
106	5530	76.56	76.80
122	5610	76.56	76.80
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	2.92
155	5775	77.28	77.28

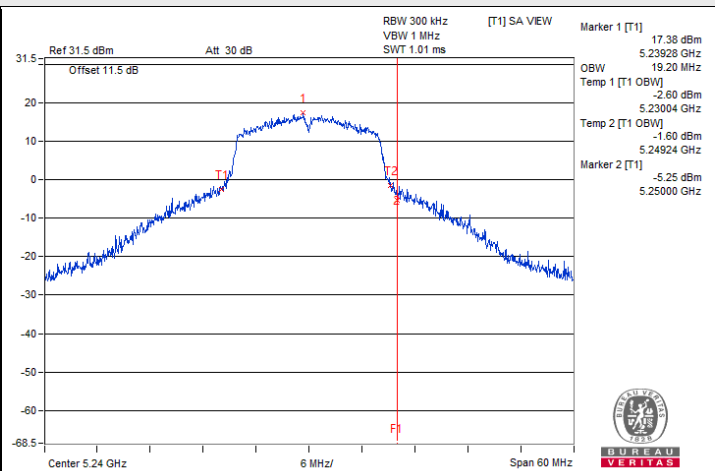
Spectrum Plot of Maximum Value



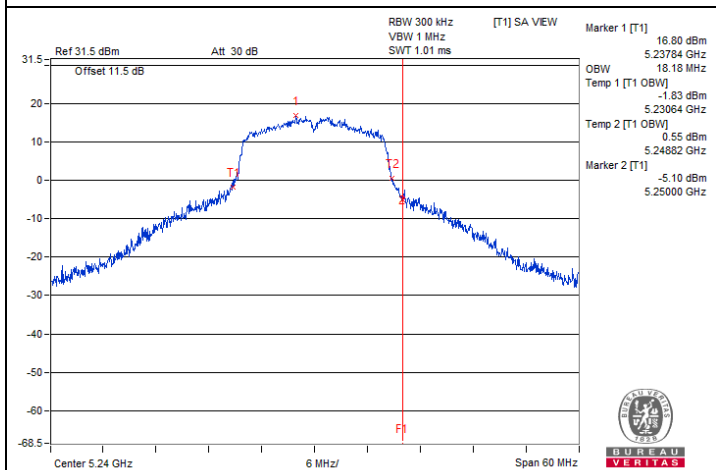
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



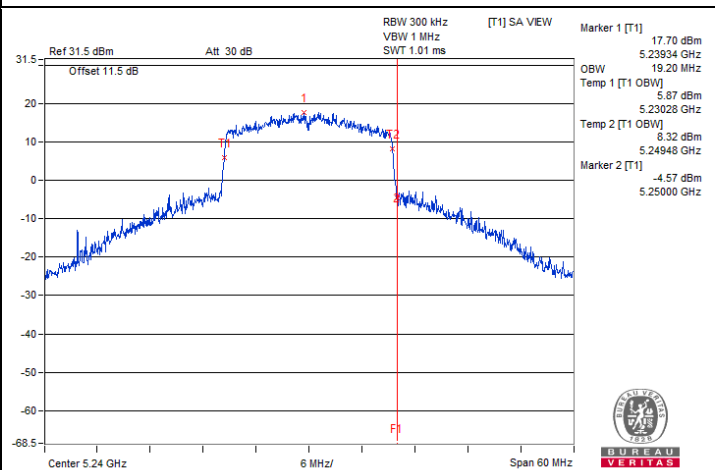
802.11a / Chain 0 : CH 48



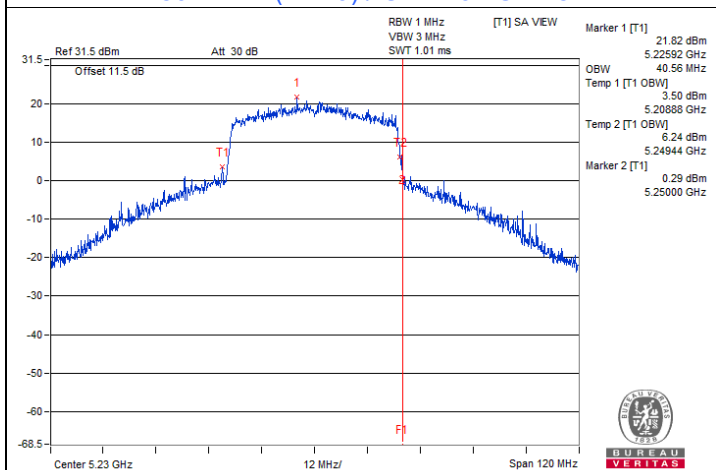
802.11a / Chain 1 : CH 48



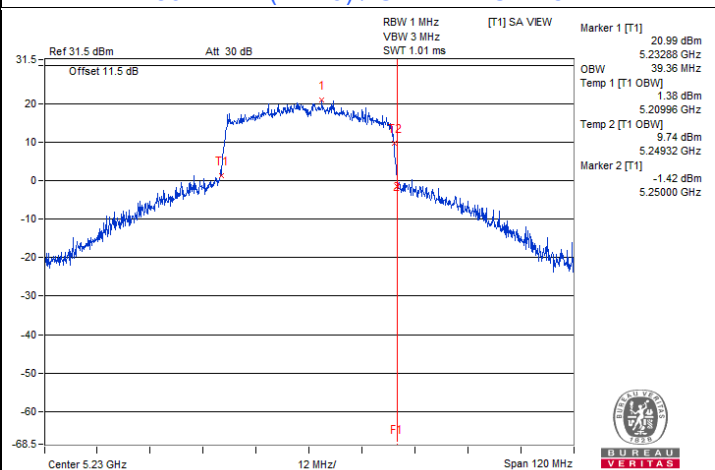
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

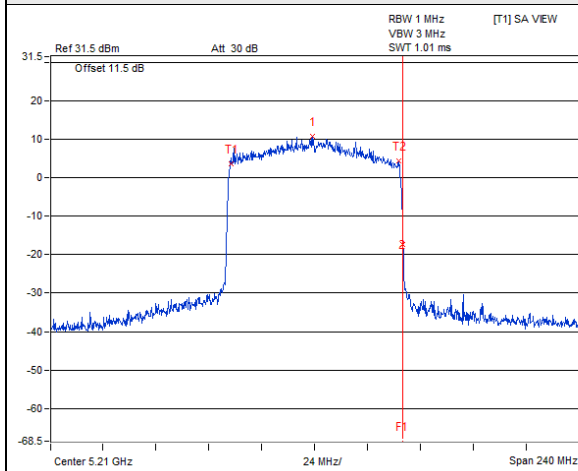


802.11ax (HE40) / Chain 0 : CH 46

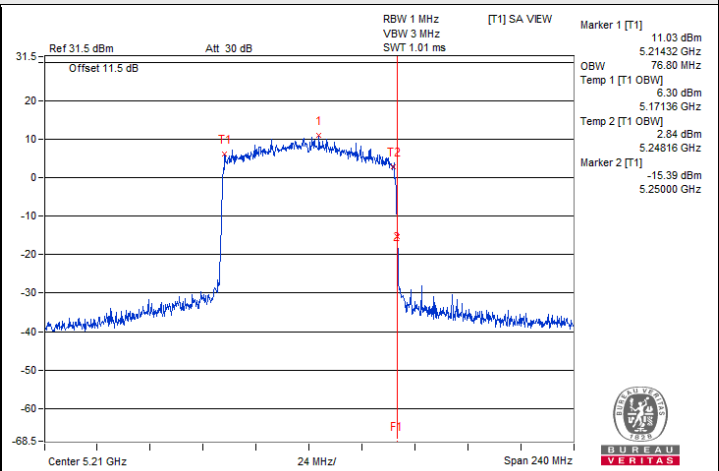


802.11ax (HE40) / Chain 1 : CH 46

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



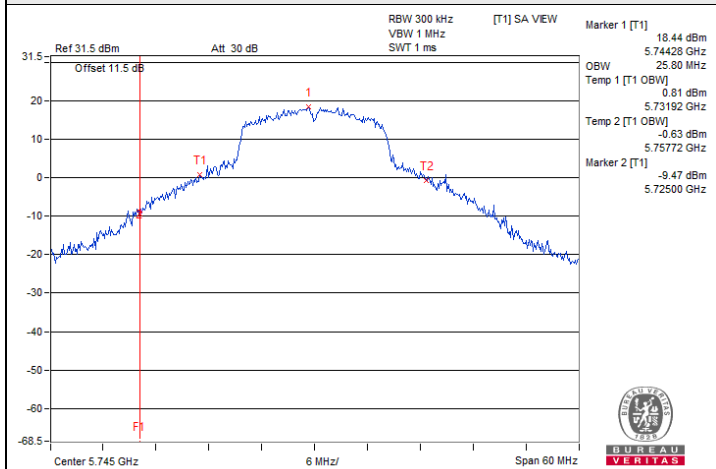
802.11ax (HE80) / Chain 0 : CH 42



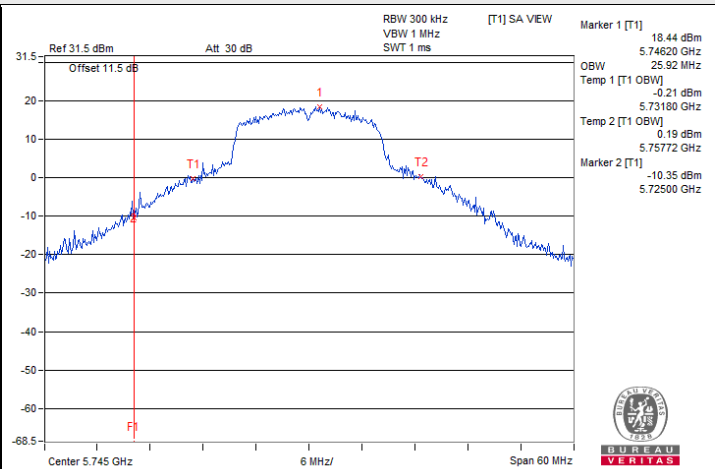
802.11ax (HE80) / Chain 1 : CH 42



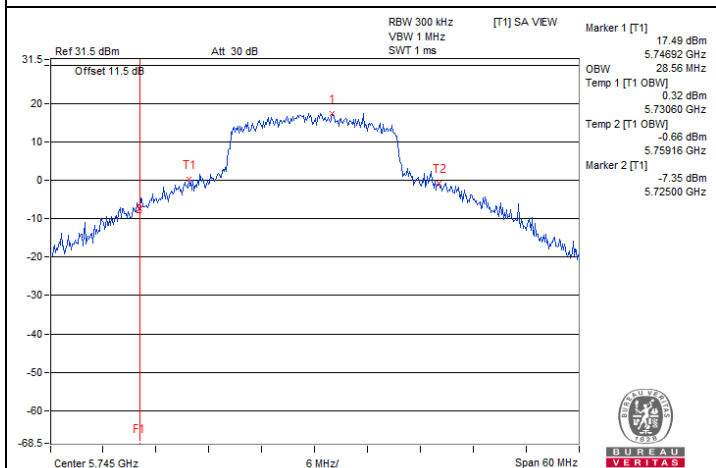
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



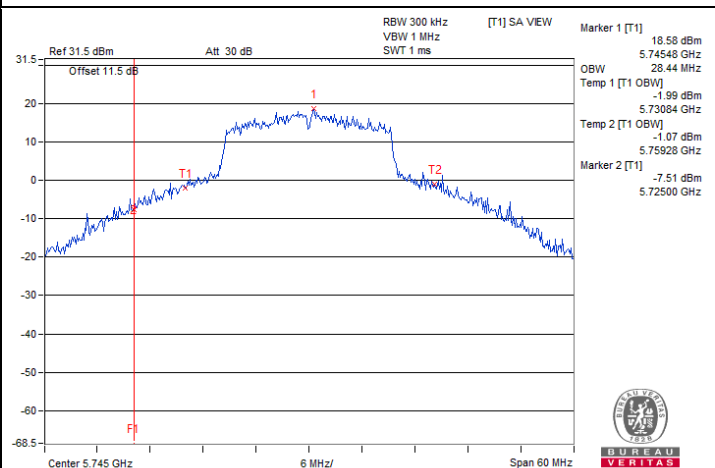
802.11a / Chain 0 : CH 149



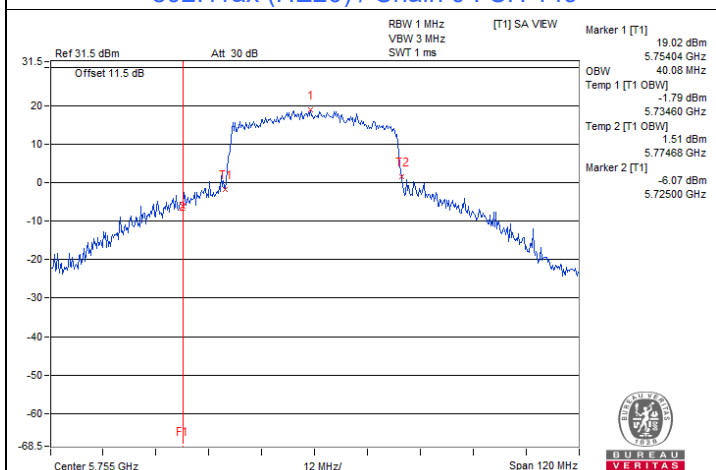
802.11a / Chain 1 : CH 149



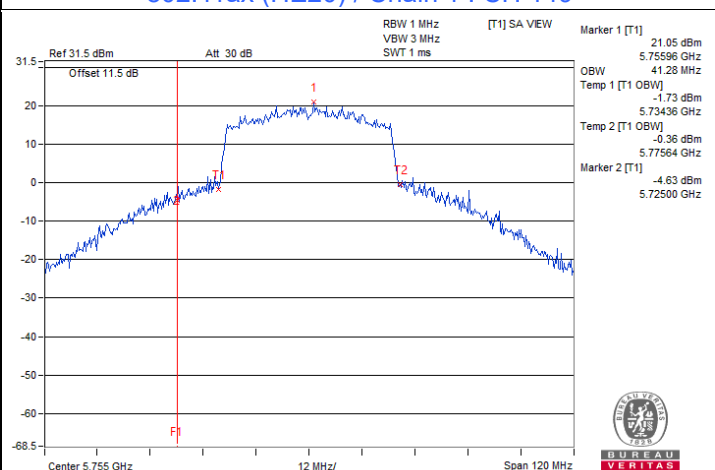
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

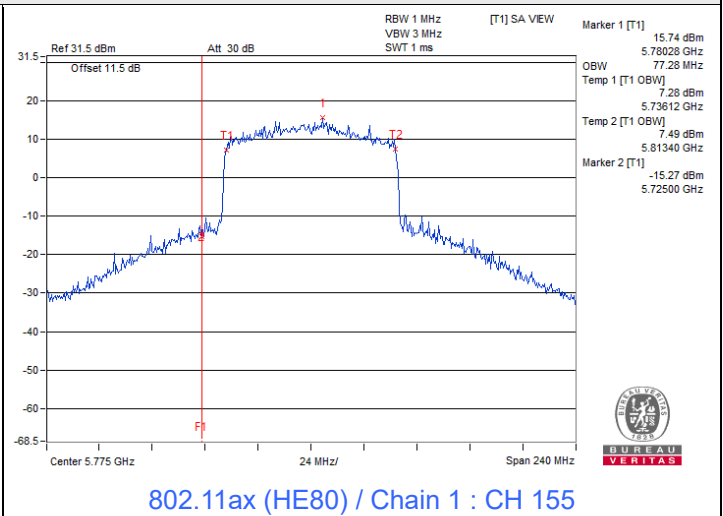
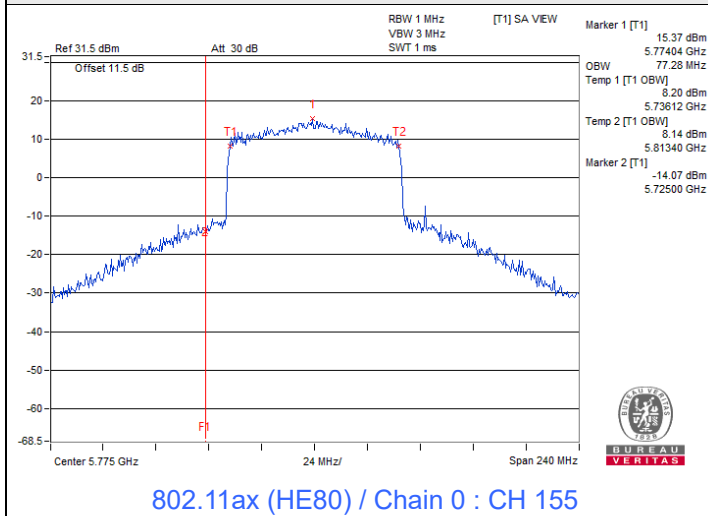


802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

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



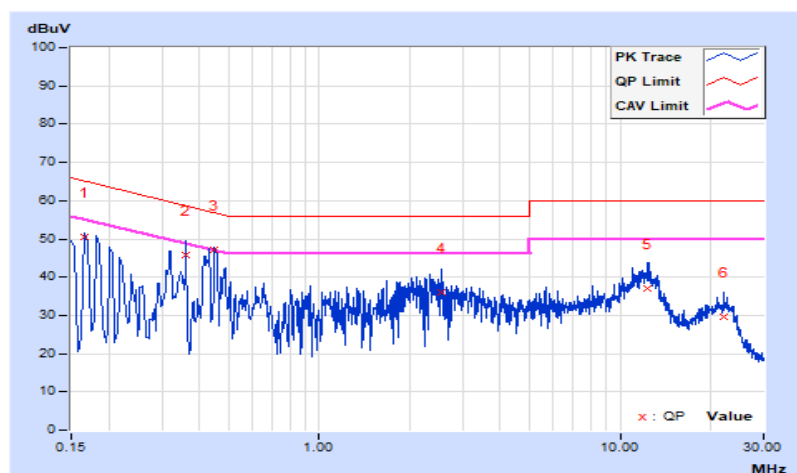
7.6 AC Power Conducted Emissions

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	23 °C, 67 % RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	10.25	40.33	22.56	50.58	32.81	65.16	55.16	-14.58	-22.35
2	0.36200	10.29	35.51	11.30	45.80	21.59	58.68	48.68	-12.88	-27.09
3	0.45000	10.29	36.71	27.87	47.00	38.16	56.88	46.88	-9.88	-8.72
4	2.54600	10.38	25.71	16.92	36.09	27.30	56.00	46.00	-19.91	-18.70
5	12.33400	10.48	26.49	18.13	36.97	28.61	60.00	50.00	-23.03	-21.39
6	22.13000	10.60	19.15	11.71	29.75	22.31	60.00	50.00	-30.25	-27.69

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

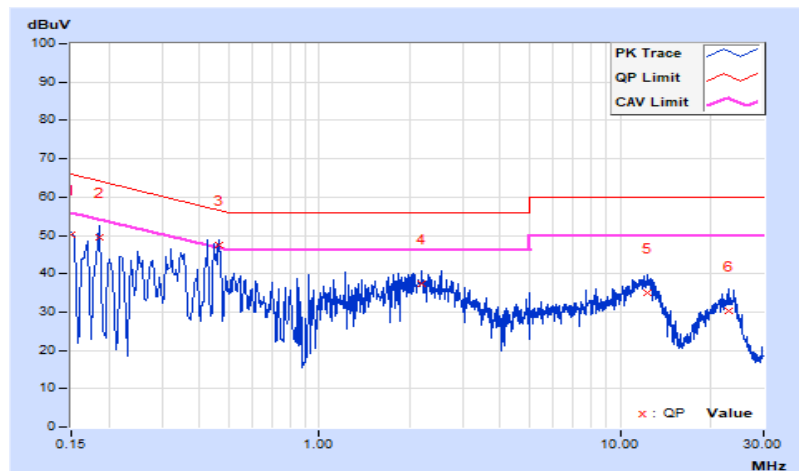


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.29	39.87	26.47	50.16	36.76	66.00	56.00	-15.84	-19.24
2	0.18600	10.30	39.20	25.66	49.50	35.96	64.21	54.21	-14.71	-18.25
3	0.46200	10.32	37.03	26.98	47.35	37.30	56.66	46.66	-9.31	-9.36
4	2.19800	10.41	26.90	17.95	37.31	28.36	56.00	46.00	-18.69	-17.64
5	12.37800	10.61	24.46	16.42	35.07	27.03	60.00	50.00	-24.93	-22.97
6	22.85400	10.80	19.63	11.70	30.43	22.50	60.00	50.00	-29.57	-27.50

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



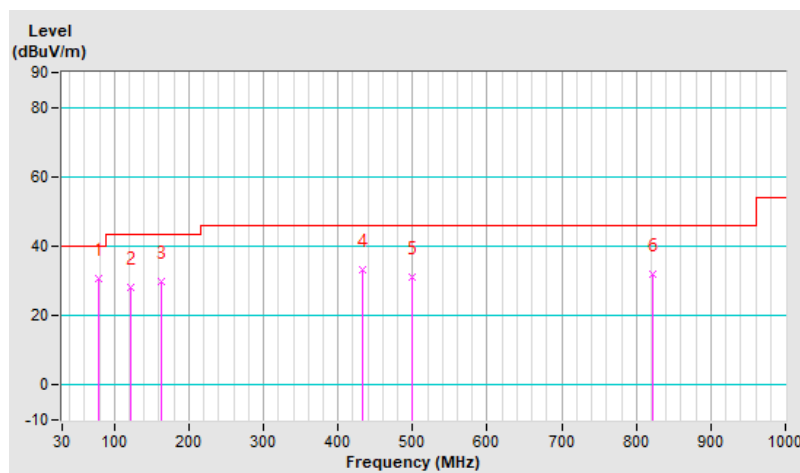
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 67 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	78.50	30.5 QP	40.0	-9.5	1.50 H	213	47.1	-16.6
2	121.18	28.2 QP	43.5	-15.3	2.00 H	68	42.2	-14.0
3	162.89	29.8 QP	43.5	-13.7	1.00 H	261	42.1	-12.3
4	433.52	33.2 QP	46.0	-12.8	2.00 H	82	41.2	-8.0
5	499.48	31.0 QP	46.0	-15.0	2.00 H	258	37.5	-6.5
6	822.49	32.1 QP	46.0	-13.9	1.00 H	104	32.6	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

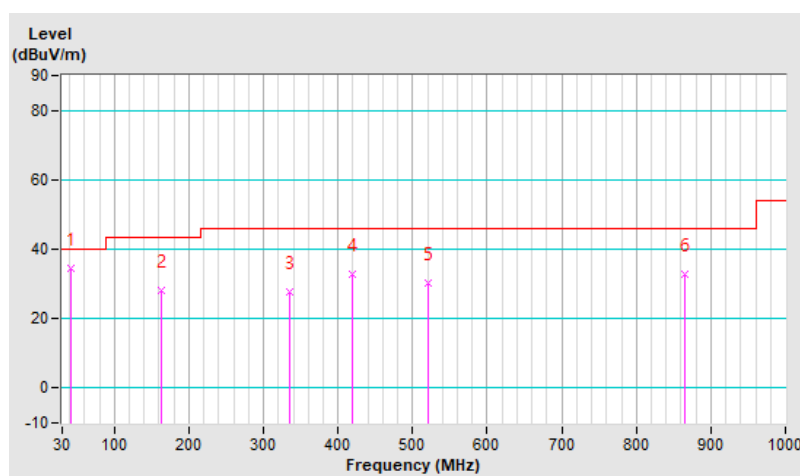


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 67 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	34.5 QP	40.0	-5.5	1.00 V	107	46.8	-12.3
2	162.89	28.2 QP	43.5	-15.3	2.00 V	61	40.5	-12.3
3	334.58	27.9 QP	46.0	-18.1	1.50 V	158	38.7	-10.8
4	419.94	32.9 QP	46.0	-13.1	1.00 V	167	41.5	-8.6
5	521.79	30.1 QP	46.0	-15.9	1.50 V	8	36.1	-6.0
6	865.17	33.0 QP	46.0	-13.0	1.00 V	190	33.5	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 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	21 °C, 63 % RH
Tested By	Vincent 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	73.2 PK	74.0	-0.8	1.50 H	199	67.3	5.9
2	5150.00	51.4 AV	54.0	-2.6	1.50 H	199	45.5	5.9
3	*5180.00	115.6 PK			1.50 H	199	74.1	41.5
4	*5180.00	105.9 AV			1.50 H	199	64.4	41.5
5	#10360.00	60.0 PK	68.2	-8.2	1.73 H	246	47.4	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	73.4 PK	74.0	-0.6	1.67 V	303	67.5	5.9
2	5150.00	52.0 AV	54.0	-2.0	1.67 V	303	46.1	5.9
3	*5180.00	117.6 PK			1.67 V	303	76.1	41.5
4	*5180.00	107.7 AV			1.67 V	303	66.2	41.5
5	#10360.00	60.4 PK	68.2	-7.8	2.34 V	186	47.8	12.6

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 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	21 °C, 63 % RH
Tested By	Vincent 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	68.0 PK	74.0	-6.0	1.47 H	194	62.1	5.9
2	5150.00	48.6 AV	54.0	-5.4	1.47 H	194	42.7	5.9
3	*5200.00	118.7 PK			1.47 H	194	77.3	41.4
4	*5200.00	108.9 AV			1.47 H	194	67.5	41.4
5	#10400.00	60.3 PK	68.2	-7.9	2.16 H	108	47.5	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	2.97 V	169	62.8	5.9
2	5150.00	49.1 AV	54.0	-4.9	2.97 V	169	43.2	5.9
3	*5200.00	121.0 PK			2.97 V	169	79.6	41.4
4	*5200.00	111.4 AV			2.97 V	169	70.0	41.4
5	#10400.00	60.7 PK	68.2	-7.5	1.73 V	235	47.9	12.8

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 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	21 °C, 63 % RH
Tested By	Vincent 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	119.6 PK			1.23 H	189	78.4	41.2
2	*5240.00	109.8 AV			1.23 H	189	68.6	41.2
3	5350.00	57.8 PK	74.0	-16.2	1.23 H	189	52.4	5.4
4	5350.00	45.0 AV	54.0	-9.0	1.23 H	189	39.6	5.4
5	#10480.00	60.4 PK	68.2	-7.8	1.63 H	247	47.2	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	123.0 PK			2.91 V	182	81.8	41.2
2	*5240.00	112.8 AV			2.91 V	182	71.6	41.2
3	5350.00	59.1 PK	74.0	-14.9	2.91 V	182	53.7	5.4
4	5350.00	45.8 AV	54.0	-8.2	2.91 V	182	40.4	5.4
5	#10480.00	60.7 PK	68.2	-7.5	2.27 V	123	47.5	13.2

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	802.11a	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	21 °C, 63 % RH
Tested By	Vincent 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	59.1 PK	74.0	-14.9	1.21 H	188	53.2	5.9
2	5150.00	45.6 AV	54.0	-8.4	1.21 H	188	39.7	5.9
3	*5260.00	113.0 PK			1.21 H	188	71.9	41.1
4	*5260.00	103.4 AV			1.21 H	188	62.3	41.1
5	#10520.00	59.9 PK	68.2	-8.3	1.52 H	234	46.7	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	2.75 V	170	53.6	5.9
2	5150.00	46.0 AV	54.0	-8.0	2.75 V	170	40.1	5.9
3	*5260.00	115.7 PK			2.75 V	170	74.6	41.1
4	*5260.00	105.8 AV			2.75 V	170	64.7	41.1
5	#10520.00	60.3 PK	68.2	-7.9	1.73 V	286	47.1	13.2

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	802.11a	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	21 °C, 63 % RH
Tested By	Vincent 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	112.2 PK			1.22 H	194	71.3	40.9
2	*5300.00	102.1 AV			1.22 H	194	61.2	40.9
3	10600.00	60.3 PK	74.0	-13.7	1.73 H	296	47.3	13.0
4	10600.00	47.2 AV	54.0	-6.8	1.73 H	296	34.2	13.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.4 PK			2.73 V	171	73.5	40.9
2	*5300.00	104.6 AV			2.73 V	171	63.7	40.9
3	10600.00	60.5 PK	74.0	-13.5	1.03 V	231	47.5	13.0
4	10600.00	47.6 AV	54.0	-6.4	1.03 V	231	34.6	13.0

Remarks:

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

RF Mode	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	21 °C, 63 % RH
Tested By	Vincent 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	112.1 PK			1.08 H	193	71.2	40.9
2	*5320.00	102.7 AV			1.08 H	193	61.8	40.9
3	5350.00	65.2 PK	74.0	-8.8	1.08 H	193	59.8	5.4
4	5350.00	46.0 AV	54.0	-8.0	1.08 H	193	40.6	5.4
5	10640.00	60.5 PK	74.0	-13.5	1.69 H	273	47.4	13.1
6	10640.00	47.3 AV	54.0	-6.7	1.69 H	273	34.2	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	114.1 PK			2.67 V	178	73.2	40.9
2	*5320.00	104.3 AV			2.67 V	178	63.4	40.9
3	5350.00	67.3 PK	74.0	-6.7	2.67 V	178	61.9	5.4
4	5350.00	46.4 AV	54.0	-7.6	2.67 V	178	41.0	5.4
5	10640.00	60.7 PK	74.0	-13.3	1.25 V	228	47.6	13.1
6	10640.00	47.6 AV	54.0	-6.4	1.25 V	228	34.5	13.1

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	58.8 PK	74.0	-15.2	2.29 H	201	53.0	5.8
2	5460.00	45.7 AV	54.0	-8.3	2.29 H	201	39.9	5.8
3	#5470.00	58.9 PK	68.2	-9.3	2.29 H	201	53.1	5.8
4	*5500.00	111.8 PK			2.29 H	201	70.3	41.5
5	*5500.00	102.1 AV			2.29 H	201	60.6	41.5
6	11000.00	60.0 PK	74.0	-14.0	2.72 H	304	47.4	12.6
7	11000.00	48.0 AV	54.0	-6.0	2.72 H	304	35.4	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.6 PK	74.0	-15.4	2.75 V	1	52.8	5.8
2	5460.00	46.1 AV	54.0	-7.9	2.75 V	1	40.3	5.8
3	#5470.00	67.6 PK	68.2	-0.6	2.75 V	1	61.8	5.8
4	*5500.00	114.8 PK			2.75 V	1	73.3	41.5
5	*5500.00	105.0 AV			2.75 V	1	63.5	41.5
6	11000.00	60.3 PK	74.0	-13.7	3.51 V	137	47.7	12.6
7	11000.00	48.5 AV	54.0	-5.5	3.51 V	137	35.9	12.6

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5580.00	111.3 PK			2.30 H	202	69.5	41.8
2	*5580.00	101.5 AV			2.30 H	202	59.7	41.8
3	11160.00	60.7 PK	74.0	-13.3	1.23 H	239	48.2	12.5
4	11160.00	48.2 AV	54.0	-5.8	1.23 H	239	35.7	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	114.2 PK			2.71 V	29	72.4	41.8
2	*5580.00	104.5 AV			2.71 V	29	62.7	41.8
3	11160.00	60.9 PK	74.0	-13.1	3.07 V	191	48.4	12.5
4	11160.00	48.5 AV	54.0	-5.5	3.07 V	191	36.0	12.5

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	111.0 PK			2.00 H	201	69.3	41.7
2	*5700.00	101.1 AV			2.00 H	201	59.4	41.7
3	#5725.00	62.2 PK	68.2	-6.0	2.00 H	201	56.2	6.0
4	11400.00	60.9 PK	74.0	-13.1	1.15 H	222	48.0	12.9
5	11400.00	48.5 AV	54.0	-5.5	1.15 H	222	35.6	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	113.5 PK			2.50 V	360	71.8	41.7
2	*5700.00	103.6 AV			2.50 V	360	61.9	41.7
3	#5725.00	67.6 PK	68.2	-0.6	2.50 V	360	61.6	6.0
4	11400.00	61.1 PK	74.0	-12.9	3.34 V	209	48.2	12.9
5	11400.00	49.0 AV	54.0	-5.0	3.34 V	209	36.1	12.9

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5720.00	111.3 PK			2.50 H	202	69.6	41.7
2	*5720.00	101.5 AV			2.50 H	202	59.8	41.7
3	#5850.00	59.6 PK	68.2	-8.6	2.50 H	202	52.9	6.7
4	11440.00	60.5 PK	74.0	-13.5	2.71 H	155	47.7	12.8
5	11440.00	48.2 AV	54.0	-5.8	2.71 H	155	35.4	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	113.1 PK			2.88 V	29	71.4	41.7
2	*5720.00	103.0 AV			2.88 V	29	61.3	41.7
3	#5850.00	59.8 PK	68.2	-8.4	2.88 V	29	53.1	6.7
4	11440.00	60.9 PK	74.0	-13.1	2.85 V	274	48.1	12.8
5	11440.00	48.5 AV	54.0	-5.5	2.85 V	274	35.7	12.8

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5603.20	60.4 PK	68.2	-7.8	2.27 H	305	54.1	6.3
2	*5745.00	117.9 PK			2.27 H	305	76.1	41.8
3	*5745.00	107.9 AV			2.27 H	305	66.1	41.8
4	#5938.80	60.2 PK	68.2	-8.0	2.27 H	305	53.5	6.7
5	11490.00	61.0 PK	74.0	-13.0	1.40 H	69	48.1	12.9
6	11490.00	49.0 AV	54.0	-5.0	1.40 H	69	36.1	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5619.60	59.5 PK	68.2	-8.7	2.54 V	42	53.2	6.3
2	*5745.00	119.0 PK			2.54 V	42	77.2	41.8
3	*5745.00	109.1 AV			2.54 V	42	67.3	41.8
4	#5978.00	60.2 PK	68.2	-8.0	2.54 V	42	53.3	6.9
5	11490.00	61.4 PK	74.0	-12.6	2.66 V	337	48.5	12.9
6	11490.00	49.2 AV	54.0	-4.8	2.66 V	337	36.3	12.9

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5642.40	60.1 PK	68.2	-8.1	2.27 H	299	53.8	6.3
2	*5785.00	117.6 PK			2.27 H	299	75.5	42.1
3	*5785.00	107.7 AV			2.27 H	299	65.6	42.1
4	#5970.40	60.5 PK	68.2	-7.7	2.27 H	299	53.6	6.9
5	11570.00	59.9 PK	74.0	-14.1	3.12 H	112	47.7	12.2
6	11570.00	47.8 AV	54.0	-6.2	3.12 H	112	35.6	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.60	59.3 PK	68.2	-8.9	2.55 V	83	53.0	6.3
2	*5785.00	118.9 PK			2.55 V	83	76.8	42.1
3	*5785.00	109.0 AV			2.55 V	83	66.9	42.1
4	#5940.40	59.7 PK	68.2	-8.5	2.55 V	83	53.0	6.7
5	11570.00	60.3 PK	74.0	-13.7	2.24 V	232	48.1	12.2
6	11570.00	48.2 AV	54.0	-5.8	2.24 V	232	36.0	12.2

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	802.11a	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	19 °C, 65 % RH
Tested By	Vincent 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	#5608.40	60.3 PK	68.2	-7.9	2.31 H	301	54.0	6.3
2	*5825.00	118.1 PK			2.31 H	301	75.7	42.4
3	*5825.00	108.2 AV			2.31 H	301	65.8	42.4
4	#5982.00	60.0 PK	68.2	-8.2	2.31 H	301	53.1	6.9
5	11650.00	59.5 PK	74.0	-14.5	3.87 H	178	48.0	11.5
6	11650.00	47.6 AV	54.0	-6.4	3.87 H	178	36.1	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	60.0 PK	68.2	-8.2	2.40 V	85	53.8	6.2
2	*5825.00	119.4 PK			2.40 V	85	77.0	42.4
3	*5825.00	109.5 AV			2.40 V	85	67.1	42.4
4	#5926.00	60.1 PK	68.2	-8.1	2.40 V	85	53.4	6.7
5	11650.00	59.7 PK	74.0	-14.3	1.44 V	10	48.2	11.5
6	11650.00	47.8 AV	54.0	-6.2	1.44 V	10	36.3	11.5

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 (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	21 °C, 63 % RH
Tested By	Vincent 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	59.4 PK	74.0	-14.6	1.07 H	194	53.5	5.9
2	5150.00	45.6 AV	54.0	-8.4	1.07 H	194	39.7	5.9
3	*5180.00	116.2 PK			1.07 H	194	74.7	41.5
4	*5180.00	103.7 AV			1.07 H	194	62.2	41.5
5	#10360.00	59.7 PK	68.2	-8.5	2.16 H	123	47.1	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	73.2 PK	74.0	-0.8	2.72 V	177	67.3	5.9
2	5150.00	53.1 AV	54.0	-0.9	2.72 V	177	47.2	5.9
3	*5180.00	118.5 PK			2.72 V	177	77.0	41.5
4	*5180.00	105.7 AV			2.72 V	177	64.2	41.5
5	#10360.00	60.0 PK	68.2	-8.2	1.74 V	123	47.4	12.6

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 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	21 °C, 63 % RH
Tested By	Vincent 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	68.8 PK	74.0	-5.2	1.00 H	196	62.9	5.9
2	5150.00	49.8 AV	54.0	-4.2	1.00 H	196	43.9	5.9
3	*5200.00	119.4 PK			1.00 H	196	78.0	41.4
4	*5200.00	107.5 AV			1.00 H	196	66.1	41.4
5	#10400.00	59.8 PK	68.2	-8.4	1.63 H	271	47.0	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	72.3 PK	74.0	-1.7	3.07 V	174	66.4	5.9
2	5150.00	52.6 AV	54.0	-1.4	3.07 V	174	46.7	5.9
3	*5200.00	122.3 PK			3.07 V	174	80.9	41.4
4	*5200.00	109.8 AV			3.07 V	174	68.4	41.4
5	#10400.00	60.0 PK	68.2	-8.2	2.43 V	123	47.2	12.8

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 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	21 °C, 63 % RH
Tested By	Vincent 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	120.0 PK			1.12 H	195	78.8	41.2
2	*5240.00	107.5 AV			1.12 H	195	66.3	41.2
3	5350.00	58.0 PK	74.0	-16.0	1.12 H	195	52.6	5.4
4	5350.00	45.1 AV	54.0	-8.9	1.12 H	195	39.7	5.4
5	#10480.00	60.5 PK	68.2	-7.7	2.17 H	163	47.3	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	122.1 PK			2.79 V	172	80.9	41.2
2	*5240.00	109.8 AV			2.79 V	172	68.6	41.2
3	5350.00	59.3 PK	74.0	-14.7	2.79 V	172	53.9	5.4
4	5350.00	45.4 AV	54.0	-8.6	2.79 V	172	40.0	5.4
5	#10480.00	60.3 PK	68.2	-7.9	1.43 V	265	47.1	13.2

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 (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	21 °C, 63 % RH
Tested By	Vincent 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	59.1 PK	74.0	-14.9	1.18 H	190	53.2	5.9
2	5150.00	45.7 AV	54.0	-8.3	1.18 H	190	39.8	5.9
3	*5260.00	114.3 PK			1.18 H	190	73.2	41.1
4	*5260.00	101.3 AV			1.18 H	190	60.2	41.1
5	#10520.00	60.3 PK	68.2	-7.9	1.86 H	276	47.1	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	2.80 V	168	54.1	5.9
2	5150.00	45.9 AV	54.0	-8.1	2.80 V	168	40.0	5.9
3	*5260.00	116.1 PK			2.80 V	168	75.0	41.1
4	*5260.00	104.1 AV			2.80 V	168	63.0	41.1
5	#10520.00	60.6 PK	68.2	-7.6	1.68 V	273	47.4	13.2

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 (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	21 °C, 63 % RH
Tested By	Vincent 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	113.4 PK			1.30 H	193	72.5	40.9
2	*5300.00	100.9 AV			1.30 H	193	60.0	40.9
3	10600.00	60.6 PK	74.0	-13.4	2.37 H	140	47.6	13.0
4	10600.00	47.4 AV	54.0	-6.6	2.37 H	140	34.4	13.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.5 PK			2.63 V	179	75.6	40.9
2	*5300.00	103.9 AV			2.63 V	179	63.0	40.9
3	10600.00	60.3 PK	74.0	-13.7	1.03 V	232	47.3	13.0
4	10600.00	47.1 AV	54.0	-6.9	1.03 V	232	34.1	13.0

Remarks:

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

RF Mode	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	21 °C, 63 % RH
Tested By	Vincent 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	113.1 PK			1.26 H	185	72.2	40.9
2	*5320.00	100.3 AV			1.26 H	185	59.4	40.9
3	5350.00	64.4 PK	74.0	-9.6	1.26 H	185	59.0	5.4
4	5350.00	47.1 AV	54.0	-6.9	1.26 H	185	41.7	5.4
5	10640.00	60.2 PK	74.0	-13.8	2.31 H	128	47.1	13.1
6	10640.00	47.1 AV	54.0	-6.9	2.31 H	128	34.0	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.7 PK			2.66 V	173	75.8	40.9
2	*5320.00	104.0 AV			2.66 V	173	63.1	40.9
3	5350.00	69.6 PK	74.0	-4.4	2.66 V	173	64.2	5.4
4	5350.00	48.7 AV	54.0	-5.3	2.66 V	173	43.3	5.4
5	10640.00	60.6 PK	74.0	-13.4	1.65 V	202	47.5	13.1
6	10640.00	47.3 AV	54.0	-6.7	1.65 V	202	34.2	13.1

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	58.7 PK	74.0	-15.3	2.27 H	202	52.9	5.8
2	5460.00	45.6 AV	54.0	-8.4	2.27 H	202	39.8	5.8
3	#5470.00	61.6 PK	68.2	-6.6	2.27 H	202	55.8	5.8
4	*5500.00	113.1 PK			2.27 H	202	71.6	41.5
5	*5500.00	100.7 AV			2.27 H	202	59.2	41.5
6	11000.00	60.2 PK	74.0	-13.8	1.98 H	198	47.6	12.6
7	11000.00	48.2 AV	54.0	-5.8	1.98 H	198	35.6	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	2.73 V	0	53.0	5.8
2	5460.00	46.1 AV	54.0	-7.9	2.73 V	0	40.3	5.8
3	#5470.00	67.7 PK	68.2	-0.5	2.73 V	0	61.9	5.8
4	*5500.00	116.5 PK			2.73 V	0	75.0	41.5
5	*5500.00	104.1 AV			2.73 V	0	62.6	41.5
6	11000.00	60.5 PK	74.0	-13.5	3.24 V	244	47.9	12.6
7	11000.00	48.5 AV	54.0	-5.5	3.24 V	244	35.9	12.6

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5580.00	114.6 PK			2.27 H	203	72.8	41.8
2	*5580.00	102.2 AV			2.27 H	203	60.4	41.8
3	11160.00	60.6 PK	74.0	-13.4	2.13 H	218	48.1	12.5
4	11160.00	48.7 AV	54.0	-5.3	2.13 H	218	36.2	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.1 PK			2.58 V	0	75.3	41.8
2	*5580.00	104.7 AV			2.58 V	0	62.9	41.8
3	11160.00	61.0 PK	74.0	-13.0	1.02 V	354	48.5	12.5
4	11160.00	48.9 AV	54.0	-5.1	1.02 V	354	36.4	12.5

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	111.3 PK			2.27 H	207	69.6	41.7
2	*5700.00	98.9 AV			2.27 H	207	57.2	41.7
3	#5725.00	62.4 PK	68.2	-5.8	2.27 H	207	56.4	6.0
4	11400.00	60.1 PK	74.0	-13.9	3.64 H	11	47.2	12.9
5	11400.00	48.3 AV	54.0	-5.7	3.64 H	11	35.4	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	114.1 PK			2.73 V	0	72.4	41.7
2	*5700.00	100.9 AV			2.73 V	0	59.2	41.7
3	#5725.00	67.7 PK	68.2	-0.5	2.73 V	0	61.7	6.0
4	11400.00	60.6 PK	74.0	-13.4	1.85 V	347	47.7	12.9
5	11400.00	48.6 AV	54.0	-5.4	1.85 V	347	35.7	12.9

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5720.00	113.6 PK			2.37 H	300	71.9	41.7
2	*5720.00	101.2 AV			2.37 H	300	59.5	41.7
3	#5850.00	59.4 PK	68.2	-8.8	2.37 H	300	52.7	6.7
4	11440.00	60.5 PK	74.0	-13.5	2.26 H	187	47.7	12.8
5	11440.00	48.6 AV	54.0	-5.4	2.26 H	187	35.8	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	115.1 PK			2.63 V	23	73.4	41.7
2	*5720.00	102.7 AV			2.63 V	23	61.0	41.7
3	#5850.00	59.5 PK	68.2	-8.7	2.63 V	23	52.8	6.7
4	11440.00	60.8 PK	74.0	-13.2	2.88 V	137	48.0	12.8
5	11440.00	49.0 AV	54.0	-5.0	2.88 V	137	36.2	12.8

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5646.00	59.8 PK	68.2	-8.4	2.20 H	203	53.6	6.2
2	*5745.00	119.4 PK			2.20 H	203	77.6	41.8
3	*5745.00	107.0 AV			2.20 H	203	65.2	41.8
4	#5976.40	59.4 PK	68.2	-8.8	2.20 H	203	52.5	6.9
5	11490.00	60.5 PK	74.0	-13.5	1.71 H	278	47.6	12.9
6	11490.00	48.8 AV	54.0	-5.2	1.71 H	278	35.9	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	60.1 PK	68.2	-8.1	2.72 V	15	53.8	6.3
2	*5745.00	121.0 PK			2.72 V	15	79.2	41.8
3	*5745.00	108.5 AV			2.72 V	15	66.7	41.8
4	#5952.80	60.6 PK	68.2	-7.6	2.72 V	15	53.7	6.9
5	11490.00	60.8 PK	74.0	-13.2	3.71 V	192	47.9	12.9
6	11490.00	49.1 AV	54.0	-4.9	3.71 V	192	36.2	12.9

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5625.60	60.2 PK	68.2	-8.0	1.92 H	207	53.9	6.3
2	*5785.00	120.8 PK			1.92 H	207	78.7	42.1
3	*5785.00	108.4 AV			1.92 H	207	66.3	42.1
4	#5974.00	60.2 PK	68.2	-8.0	1.92 H	207	53.3	6.9
5	11570.00	59.9 PK	74.0	-14.1	3.26 H	266	47.7	12.2
6	11570.00	48.0 AV	54.0	-6.0	3.26 H	266	35.8	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5627.20	61.1 PK	68.2	-7.1	2.72 V	20	54.8	6.3
2	*5785.00	122.3 PK			2.72 V	20	80.2	42.1
3	*5785.00	109.9 AV			2.72 V	20	67.8	42.1
4	#5961.20	60.3 PK	68.2	-7.9	2.72 V	20	53.4	6.9
5	11570.00	60.2 PK	74.0	-13.8	1.87 V	287	48.0	12.2
6	11570.00	48.3 AV	54.0	-5.7	1.87 V	287	36.1	12.2

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 (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	19 °C, 65 % RH
Tested By	Vincent 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	#5631.60	60.1 PK	68.2	-8.1	1.92 H	209	53.8	6.3
2	*5825.00	121.0 PK			1.92 H	209	78.6	42.4
3	*5825.00	108.6 AV			1.92 H	209	66.2	42.4
4	#5948.00	59.6 PK	68.2	-8.6	1.92 H	209	52.9	6.7
5	11650.00	59.1 PK	74.0	-14.9	2.81 H	145	47.6	11.5
6	11650.00	47.5 AV	54.0	-6.5	2.81 H	145	36.0	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.40	59.6 PK	68.2	-8.6	2.60 V	13	53.3	6.3
2	*5825.00	122.2 PK			2.60 V	13	79.8	42.4
3	*5825.00	109.8 AV			2.60 V	13	67.4	42.4
4	#5936.00	59.5 PK	68.2	-8.7	2.60 V	13	52.8	6.7
5	11650.00	59.5 PK	74.0	-14.5	2.07 V	187	48.0	11.5
6	11650.00	47.8 AV	54.0	-6.2	2.07 V	187	36.3	11.5

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	21 °C, 63 % RH
Tested By	Vincent 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	66.2 PK	74.0	-7.8	1.18 H	188	60.3	5.9
2	5150.00	49.1 AV	54.0	-4.9	1.18 H	188	43.2	5.9
3	*5190.00	111.2 PK			1.18 H	188	69.8	41.4
4	*5190.00	98.1 AV			1.18 H	188	56.7	41.4
5	#10380.00	59.8 PK	68.2	-8.4	2.21 H	143	47.2	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.4 PK	74.0	-3.6	2.71 V	176	64.5	5.9
2	5150.00	51.4 AV	54.0	-2.6	2.71 V	176	45.5	5.9
3	*5190.00	113.5 PK			2.71 V	176	72.1	41.4
4	*5190.00	100.8 AV			2.71 V	176	59.4	41.4
5	#10380.00	60.2 PK	68.2	-8.0	1.23 V	259	47.6	12.6

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	21 °C, 63 % RH
Tested By	Vincent 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	67.8 PK	74.0	-6.2	1.26 H	192	61.9	5.9
2	5150.00	51.8 AV	54.0	-2.2	1.26 H	192	45.9	5.9
3	*5230.00	117.3 PK			1.26 H	192	76.0	41.3
4	*5230.00	104.4 AV			1.26 H	192	63.1	41.3
5	5350.00	58.4 PK	74.0	-15.6	1.26 H	192	53.0	5.4
6	5350.00	44.4 AV	54.0	-9.6	1.26 H	192	39.0	5.4
7	#10460.00	60.6 PK	68.2	-7.6	1.86 H	203	47.5	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.2 PK	74.0	-3.8	2.65 V	172	64.3	5.9
2	5150.00	53.4 AV	54.0	-0.6	2.65 V	172	47.5	5.9
3	*5230.00	119.4 PK			2.65 V	172	78.1	41.3
4	*5230.00	106.6 AV			2.65 V	172	65.3	41.3
5	5350.00	61.3 PK	74.0	-12.7	2.65 V	172	55.9	5.4
6	5350.00	46.0 AV	54.0	-8.0	2.65 V	172	40.6	5.4
7	#10460.00	60.8 PK	68.2	-7.4	2.76 V	83	47.7	13.1

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 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	21 °C, 63 % RH
Tested By	Vincent 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	59.1 PK	74.0	-14.9	1.17 H	188	53.2	5.9
2	5150.00	45.7 AV	54.0	-8.3	1.17 H	188	39.8	5.9
3	*5270.00	112.2 PK			1.17 H	188	71.1	41.1
4	*5270.00	99.0 AV			1.17 H	188	57.9	41.1
5	#10540.00	60.4 PK	68.2	-7.8	2.34 H	186	47.2	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	2.77 V	169	53.9	5.9
2	5150.00	45.9 AV	54.0	-8.1	2.77 V	169	40.0	5.9
3	*5270.00	114.3 PK			2.77 V	169	73.2	41.1
4	*5270.00	102.1 AV			2.77 V	169	61.0	41.1
5	#10540.00	60.7 PK	68.2	-7.5	1.29 V	273	47.5	13.2

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 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	21 °C, 63 % RH
Tested By	Vincent 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	110.8 PK			1.30 H	190	69.9	40.9
2	*5310.00	98.3 AV			1.30 H	190	57.4	40.9
3	5350.00	68.3 PK	74.0	-5.7	1.30 H	190	62.9	5.4
4	5350.00	50.3 AV	54.0	-3.7	1.30 H	190	44.9	5.4
5	10620.00	60.4 PK	74.0	-13.6	1.69 H	208	47.5	12.9
6	10620.00	47.2 AV	54.0	-6.8	1.69 H	208	34.3	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	114.0 PK			2.66 V	172	73.1	40.9
2	*5310.00	101.2 AV			2.66 V	172	60.3	40.9
3	5350.00	71.4 PK	74.0	-2.6	2.66 V	172	66.0	5.4
4	5350.00	52.9 AV	54.0	-1.1	2.66 V	172	47.5	5.4
5	10620.00	60.2 PK	74.0	-13.8	2.24 V	171	47.3	12.9
6	10620.00	47.0 AV	54.0	-7.0	2.24 V	171	34.1	12.9

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 (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	19 °C, 65 % RH
Tested By	Vincent 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	58.6 PK	74.0	-15.4	2.37 H	201	52.8	5.8
2	5460.00	45.7 AV	54.0	-8.3	2.37 H	201	39.9	5.8
3	#5470.00	59.0 PK	68.2	-9.2	2.37 H	201	53.2	5.8
4	*5510.00	109.0 PK			2.37 H	201	67.4	41.6
5	*5510.00	95.9 AV			2.37 H	201	54.3	41.6
6	11020.00	60.2 PK	74.0	-13.8	1.52 H	198	47.7	12.5
7	11020.00	48.1 AV	54.0	-5.9	1.52 H	198	35.6	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	2.73 V	2	53.1	5.8
2	5460.00	45.8 AV	54.0	-8.2	2.73 V	2	40.0	5.8
3	#5470.00	67.7 PK	68.2	-0.5	2.73 V	2	61.9	5.8
4	*5510.00	111.6 PK			2.73 V	2	70.0	41.6
5	*5510.00	98.5 AV			2.73 V	2	56.9	41.6
6	11020.00	60.4 PK	74.0	-13.6	3.95 V	141	47.9	12.5
7	11020.00	48.4 AV	54.0	-5.6	3.95 V	141	35.9	12.5

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	19 °C, 65 % RH
Tested By	Vincent 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	*5550.00	113.0 PK			2.37 H	201	71.3	41.7
2	*5550.00	99.9 AV			2.37 H	201	58.2	41.7
3	11100.00	60.4 PK	74.0	-13.6	3.20 H	159	48.1	12.3
4	11100.00	47.7 AV	54.0	-6.3	3.20 H	159	35.4	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	114.8 PK			2.63 V	16	73.1	41.7
2	*5550.00	101.7 AV			2.63 V	16	60.0	41.7
3	11100.00	60.8 PK	74.0	-13.2	2.96 V	125	48.5	12.3
4	11100.00	48.0 AV	54.0	-6.0	2.96 V	125	35.7	12.3

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	112.4 PK			2.37 H	200	70.6	41.8
2	*5670.00	99.3 AV			2.37 H	200	57.5	41.8
3	#5725.00	63.6 PK	68.2	-4.6	2.37 H	200	57.6	6.0
4	11340.00	60.4 PK	74.0	-13.6	3.91 H	27	47.7	12.7
5	11340.00	48.5 AV	54.0	-5.5	3.91 H	27	35.8	12.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	113.6 PK			2.49 V	0	71.8	41.8
2	*5670.00	100.8 AV			2.49 V	0	59.0	41.8
3	#5725.00	67.4 PK	68.2	-0.8	2.49 V	0	61.4	6.0
4	11340.00	60.8 PK	74.0	-13.2	3.21 V	167	48.1	12.7
5	11340.00	49.0 AV	54.0	-5.0	3.21 V	167	36.3	12.7

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5710.00	112.6 PK			2.37 H	203	70.9	41.7
2	*5710.00	99.5 AV			2.37 H	203	57.8	41.7
3	#5850.00	59.7 PK	68.2	-8.5	2.37 H	203	53.0	6.7
4	11420.00	61.1 PK	74.0	-12.9	1.52 H	62	48.1	13.0
5	11420.00	49.1 AV	54.0	-4.9	1.52 H	62	36.1	13.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	114.3 PK			2.61 V	13	72.6	41.7
2	*5710.00	101.2 AV			2.61 V	13	59.5	41.7
3	#5850.00	59.8 PK	68.2	-8.4	2.61 V	13	53.1	6.7
4	11420.00	61.4 PK	74.0	-12.6	2.19 V	307	48.4	13.0
5	11420.00	49.3 AV	54.0	-4.7	2.19 V	307	36.3	13.0

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5649.20	61.0 PK	68.2	-7.2	2.22 H	203	54.8	6.2
2	*5755.00	115.4 PK			2.22 H	203	73.5	41.9
3	*5755.00	102.3 AV			2.22 H	203	60.4	41.9
4	#5973.20	60.1 PK	68.2	-8.1	2.22 H	203	53.2	6.9
5	11510.00	60.4 PK	74.0	-13.6	2.17 H	275	47.7	12.7
6	11510.00	48.9 AV	54.0	-5.1	2.17 H	275	36.2	12.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	67.4 PK	68.2	-0.8	2.38 V	1	61.1	6.3
2	*5755.00	117.5 PK			2.72 V	19	75.6	41.9
3	*5755.00	104.2 AV			2.72 V	19	62.3	41.9
4	#5962.40	61.5 PK	68.2	-6.7	2.38 V	1	54.6	6.9
5	11510.00	60.7 PK	74.0	-13.3	2.89 V	152	48.0	12.7
6	11510.00	49.1 AV	54.0	-4.9	2.89 V	152	36.4	12.7

Remarks:

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

RF Mode	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	19 °C, 65 % RH
Tested By	Vincent 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	#5632.00	65.6 PK	68.2	-2.6	2.37 H	304	59.3	6.3
2	*5795.00	117.0 PK			2.37 H	304	74.8	42.2
3	*5795.00	103.9 AV			2.37 H	304	61.7	42.2
4	#5943.20	61.3 PK	68.2	-6.9	2.37 H	304	54.6	6.7
5	11590.00	59.4 PK	74.0	-14.6	1.70 H	270	47.6	11.8
6	11590.00	48.1 AV	54.0	-5.9	1.70 H	270	36.3	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.00	64.5 PK	68.2	-3.7	2.50 V	27	58.2	6.3
2	*5795.00	119.0 PK			2.50 V	27	76.8	42.2
3	*5795.00	105.9 AV			2.50 V	27	63.7	42.2
4	#5952.00	61.2 PK	68.2	-7.0	2.50 V	27	54.3	6.9
5	11590.00	59.8 PK	74.0	-14.2	3.82 V	16	48.0	11.8
6	11590.00	48.3 AV	54.0	-5.7	3.82 V	16	36.5	11.8

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	21 °C, 63 % RH
Tested By	Vincent 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	61.0 PK	74.0	-13.0	1.30 H	190	55.1	5.9
2	5150.00	48.1 AV	54.0	-5.9	1.30 H	190	42.2	5.9
3	*5210.00	105.1 PK			1.30 H	190	63.7	41.4
4	*5210.00	92.1 AV			1.30 H	190	50.7	41.4
5	#10420.00	60.0 PK	68.2	-8.2	2.29 H	176	47.1	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.89 V	176	57.2	5.9
2	5150.00	51.3 AV	54.0	-2.7	2.89 V	176	45.4	5.9
3	*5210.00	108.2 PK			2.89 V	176	66.8	41.4
4	*5210.00	95.1 AV			2.89 V	176	53.7	41.4
5	#10420.00	60.3 PK	68.2	-7.9	1.63 V	287	47.4	12.9

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 (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	21 °C, 63 % RH
Tested By	Vincent 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	107.5 PK			1.13 H	197	66.6	40.9
2	*5290.00	94.6 AV			1.13 H	197	53.7	40.9
3	5350.00	65.9 PK	74.0	-8.1	1.13 H	197	60.5	5.4
4	5350.00	49.9 AV	54.0	-4.1	1.13 H	197	44.5	5.4
5	#10580.00	60.4 PK	68.2	-7.8	2.93 H	24	47.3	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	110.3 PK			2.84 V	177	69.4	40.9
2	*5290.00	97.7 AV			2.84 V	177	56.8	40.9
3	5350.00	70.3 PK	74.0	-3.7	2.84 V	177	64.9	5.4
4	5350.00	52.6 AV	54.0	-1.4	2.84 V	177	47.2	5.4
5	#10580.00	60.2 PK	68.2	-8.0	1.23 V	224	47.1	13.1

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 (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	19 °C, 65 % RH
Tested By	Vincent 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	59.5 PK	74.0	-14.5	2.26 H	196	53.7	5.8
2	5460.00	46.1 AV	54.0	-7.9	2.26 H	196	40.3	5.8
3	#5470.00	60.0 PK	68.2	-8.2	2.26 H	196	54.2	5.8
4	*5530.00	105.9 PK			2.26 H	196	64.2	41.7
5	*5530.00	92.5 AV			2.26 H	196	50.8	41.7
6	11060.00	60.2 PK	74.0	-13.8	2.13 H	136	47.7	12.5
7	11060.00	48.6 AV	54.0	-5.4	2.13 H	136	36.1	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.9 PK	74.0	-11.1	2.51 V	1	57.1	5.8
2	5460.00	49.3 AV	54.0	-4.7	2.51 V	1	43.5	5.8
3	#5470.00	67.5 PK	68.2	-0.7	2.51 V	1	61.7	5.8
4	*5530.00	109.2 PK			2.51 V	1	67.5	41.7
5	*5530.00	95.8 AV			2.51 V	1	54.1	41.7
6	11060.00	60.4 PK	74.0	-13.6	3.38 V	196	47.9	12.5
7	11060.00	48.8 AV	54.0	-5.2	3.38 V	196	36.3	12.5

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 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	19 °C, 65 % RH
Tested By	Vincent 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	110.5 PK			2.16 H	201	68.6	41.9
2	*5610.00	97.1 AV			2.16 H	201	55.2	41.9
3	#5725.00	59.3 PK	68.2	-8.9	2.16 H	201	53.3	6.0
4	11220.00	60.6 PK	74.0	-13.4	3.47 H	171	48.1	12.5
5	11220.00	48.6 AV	54.0	-5.4	3.47 H	171	36.1	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	112.0 PK			2.44 V	1	70.1	41.9
2	*5610.00	98.6 AV			2.44 V	1	56.7	41.9
3	#5725.00	60.5 PK	68.2	-7.7	2.44 V	1	54.5	6.0
4	11220.00	61.0 PK	74.0	-13.0	1.36 V	124	48.5	12.5
5	11220.00	48.8 AV	54.0	-5.2	1.36 V	124	36.3	12.5

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 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	19 °C, 65 % RH
Tested By	Vincent 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	*5690.00	110.6 PK			2.07 H	207	68.9	41.7
2	*5690.00	97.2 AV			2.07 H	207	55.5	41.7
3	#5850.00	59.9 PK	68.2	-8.3	2.07 H	207	53.2	6.7
4	11380.00	60.8 PK	74.0	-13.2	2.98 H	61	48.0	12.8
5	11380.00	48.9 AV	54.0	-5.1	2.98 H	61	36.1	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	112.3 PK			2.50 V	8	70.6	41.7
2	*5690.00	98.9 AV			2.50 V	8	57.2	41.7
3	#5850.00	60.2 PK	68.2	-8.0	2.50 V	8	53.5	6.7
4	11380.00	61.0 PK	74.0	-13.0	3.20 V	289	48.2	12.8
5	11380.00	49.3 AV	54.0	-4.7	3.20 V	289	36.5	12.8

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 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	19 °C, 65 % RH
Tested By	Vincent 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	#5647.20	63.7 PK	68.2	-4.5	1.90 H	215	57.5	6.2
2	*5775.00	111.1 PK			1.90 H	215	69.1	42.0
3	*5775.00	98.4 AV			1.90 H	215	56.4	42.0
4	#5971.20	60.6 PK	68.2	-7.6	1.90 H	215	53.7	6.9
5	11550.00	60.4 PK	74.0	-13.6	3.19 H	349	48.1	12.3
6	11550.00	48.1 AV	54.0	-5.9	3.19 H	349	35.8	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.40	67.5 PK	68.2	-0.7	2.21 V	1	61.3	6.2
2	*5775.00	112.1 PK			2.32 V	94	70.1	42.0
3	*5775.00	99.4 AV			2.32 V	94	57.4	42.0
4	#5931.60	63.0 PK	68.2	-5.2	2.21 V	1	56.3	6.7
5	11550.00	60.6 PK	74.0	-13.4	1.01 V	140	48.3	12.3
6	11550.00	48.3 AV	54.0	-5.7	1.01 V	140	36.0	12.3

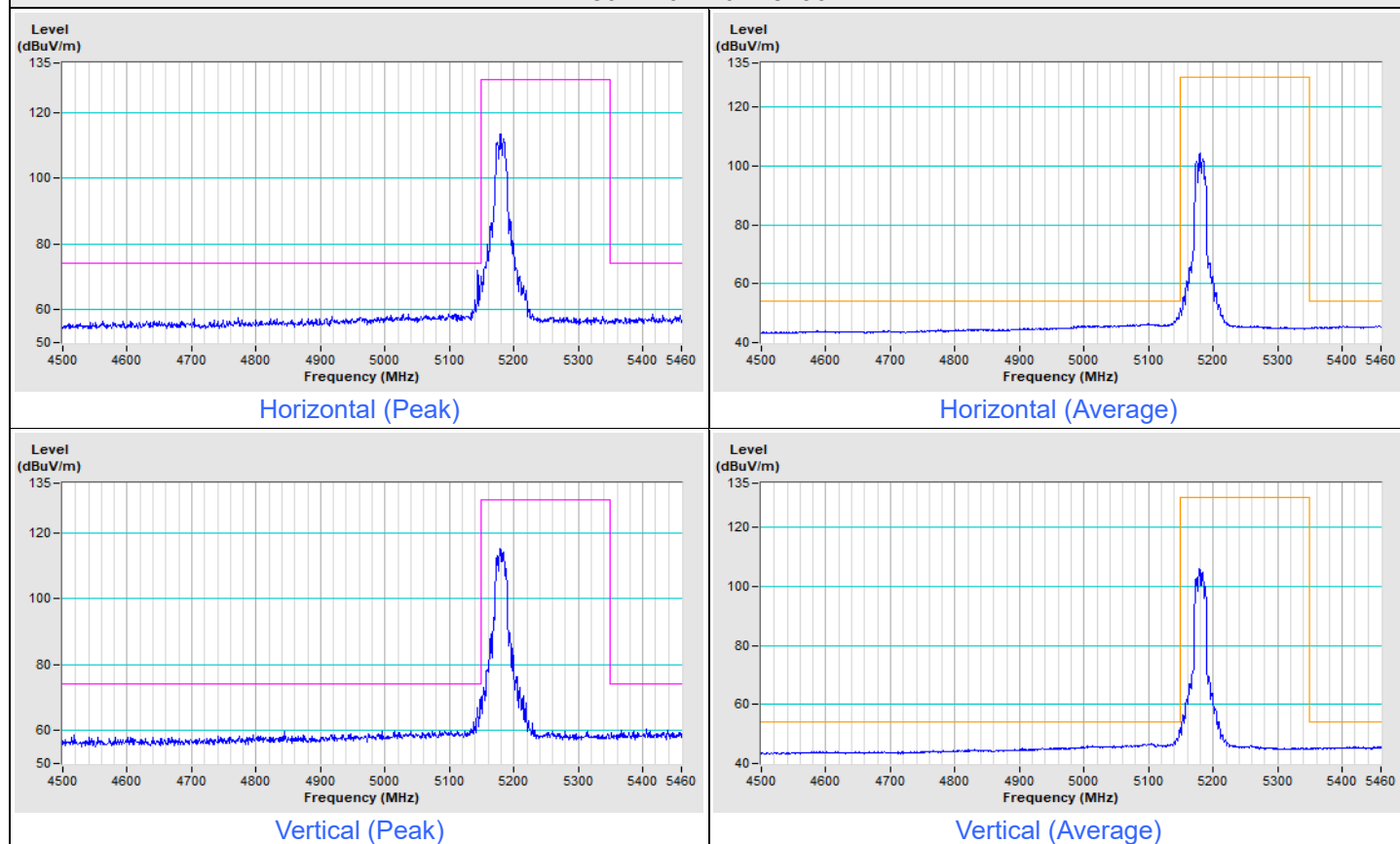
Remarks:

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.

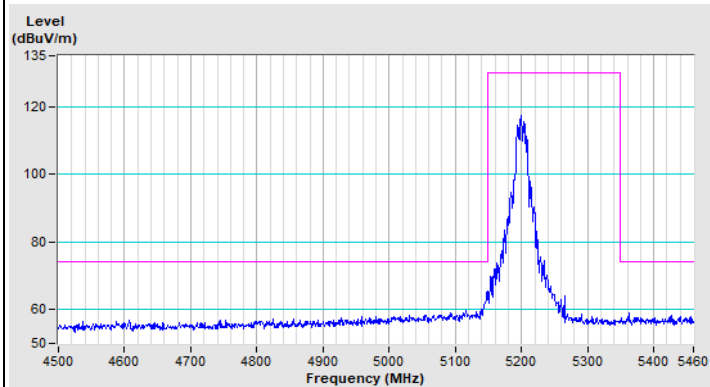
Plot of Band Edge

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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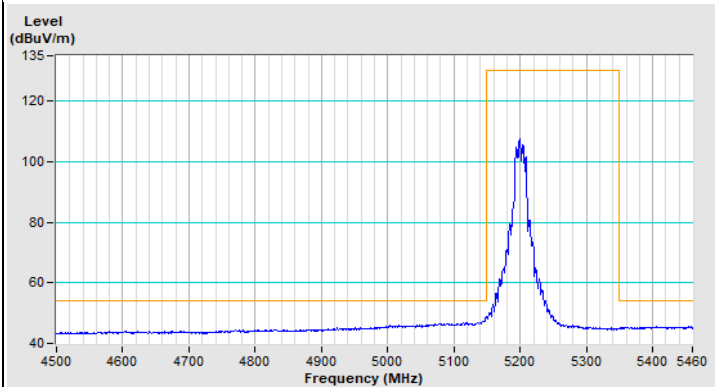
802.11a Channel 36



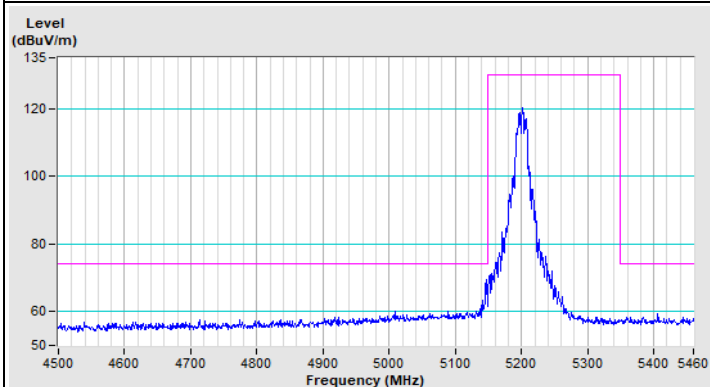
802.11a Channel 40



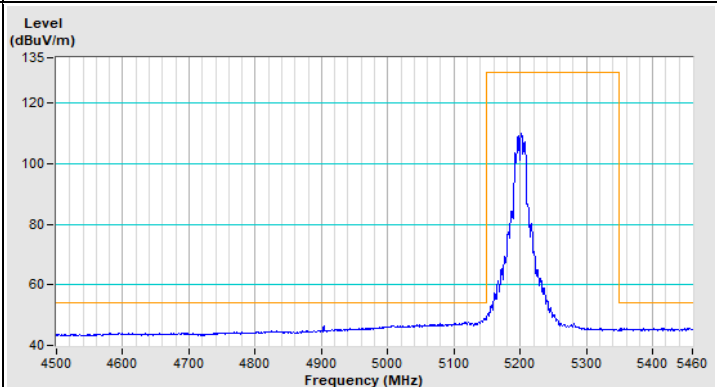
Horizontal (Peak)



Horizontal (Average)

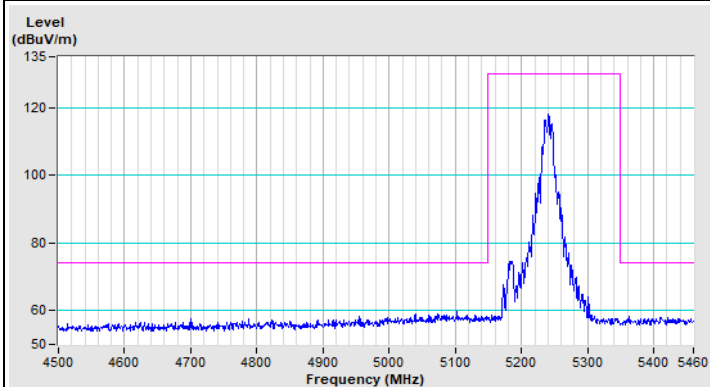


Vertical (Peak)

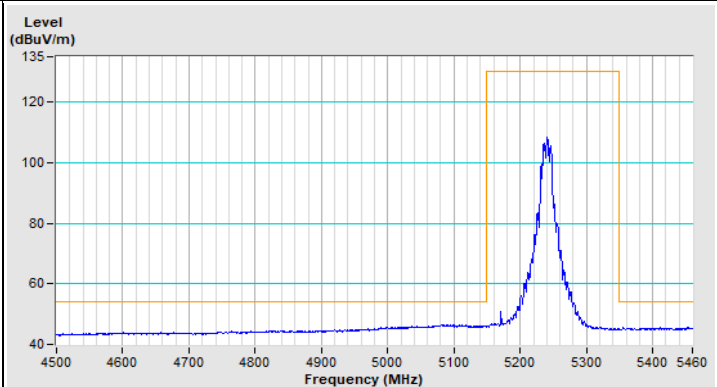


Vertical (Average)

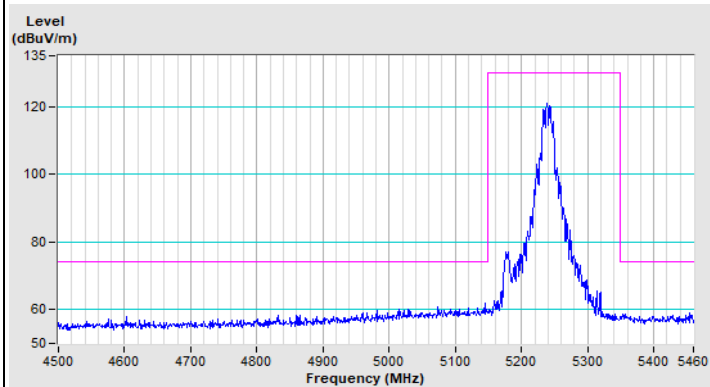
802.11a Channel 48



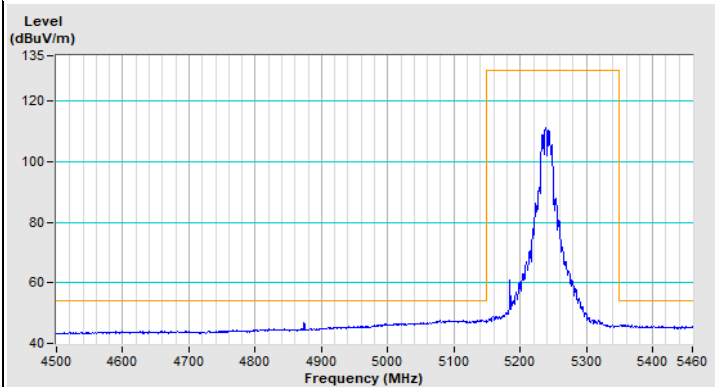
Horizontal (Peak)



Horizontal (Average)

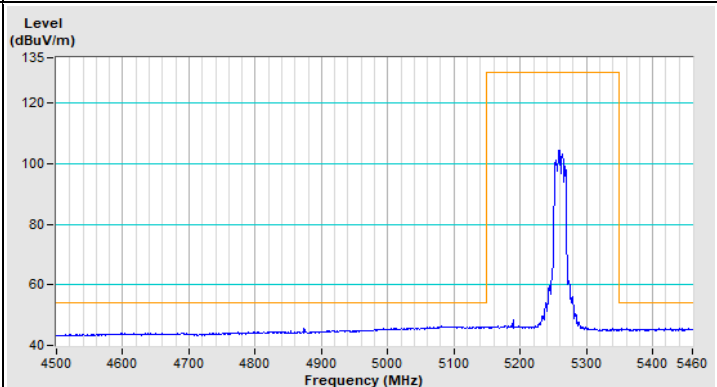
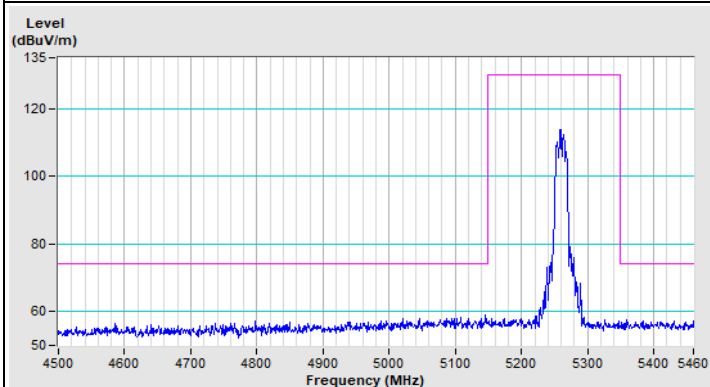
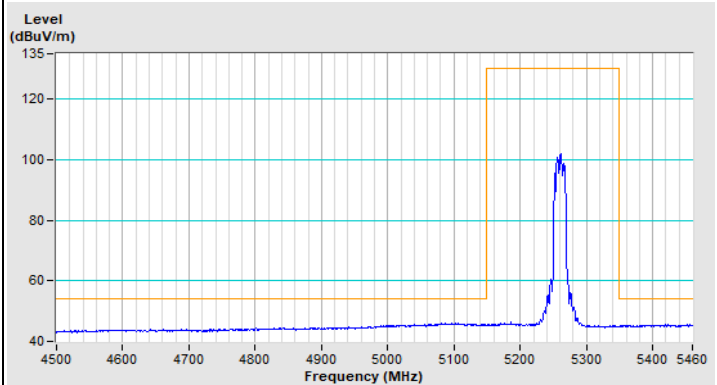
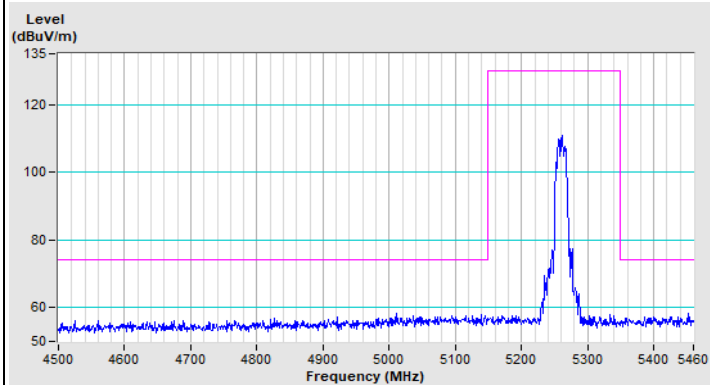


Vertical (Peak)

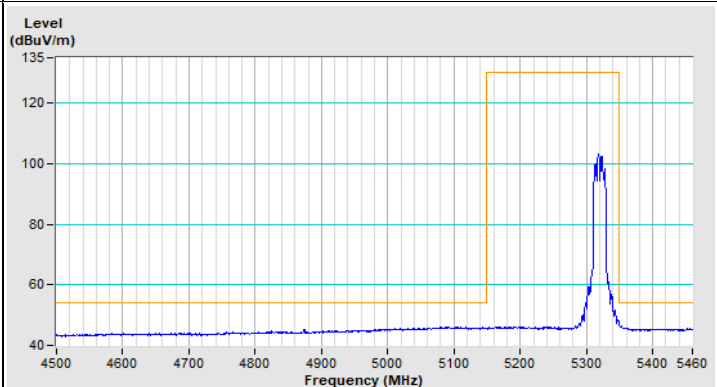
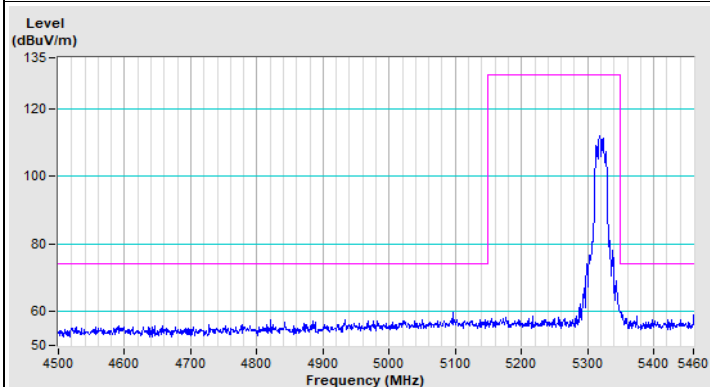
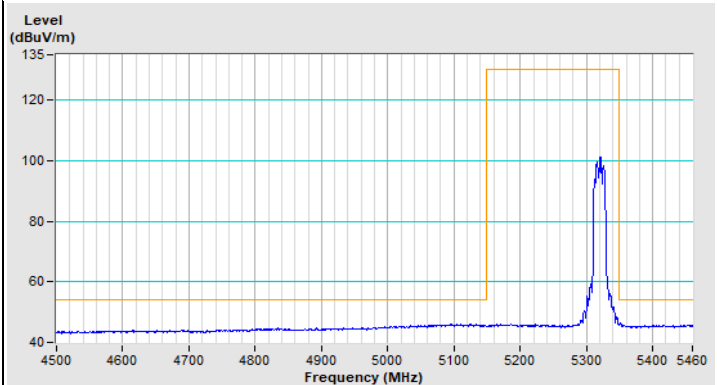
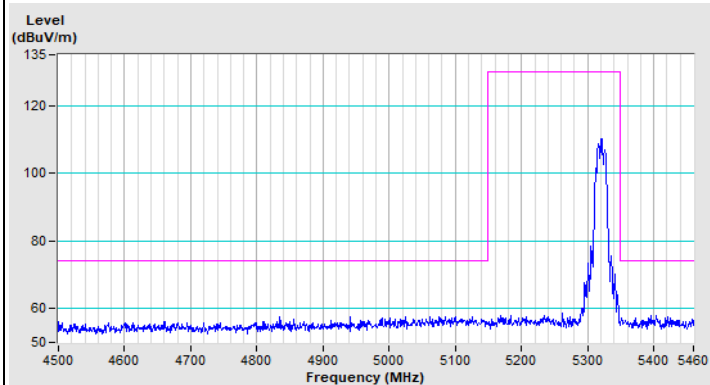


Vertical (Average)

802.11a Channel 52

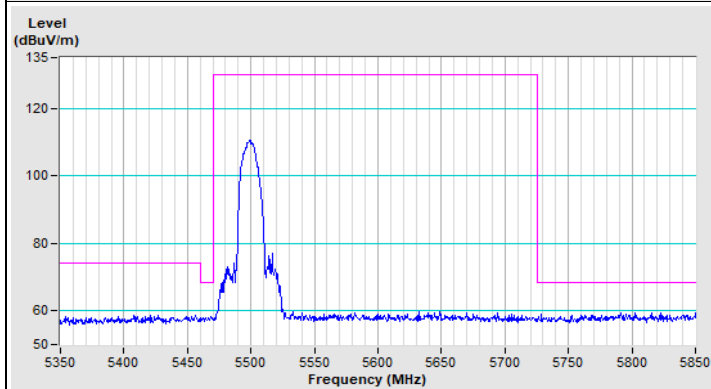


802.11a Channel 64

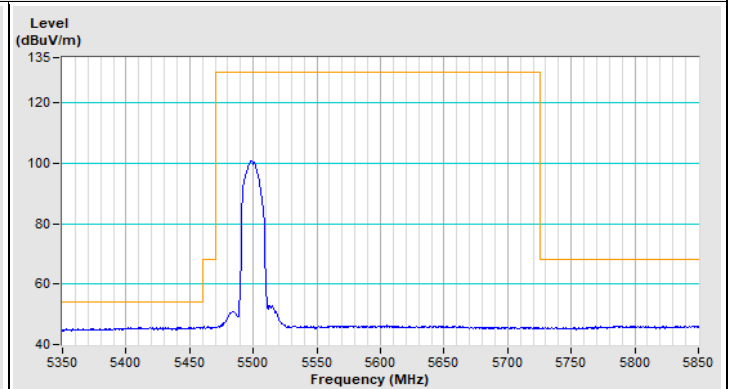


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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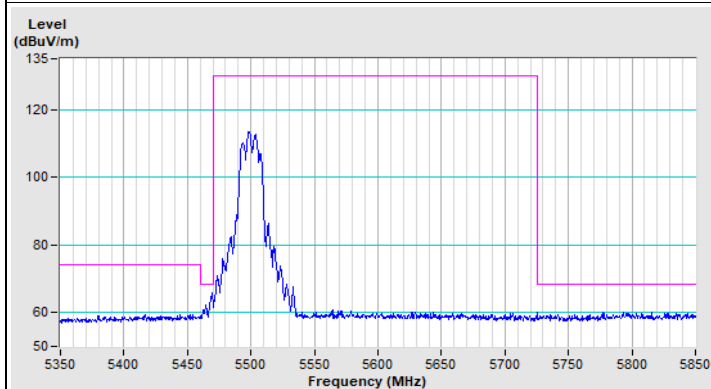
802.11a Channel 100



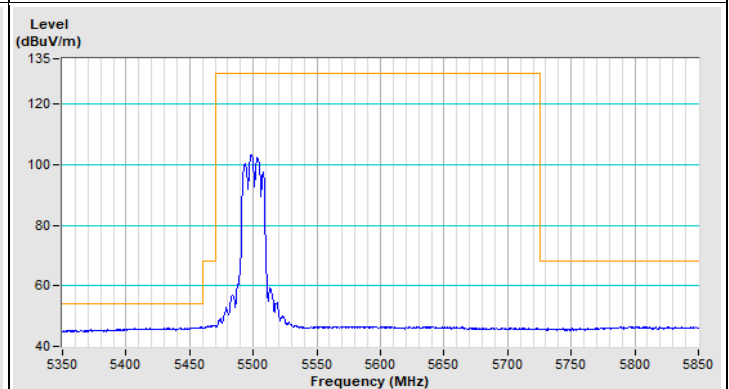
Horizontal (Peak)



Horizontal (Average)

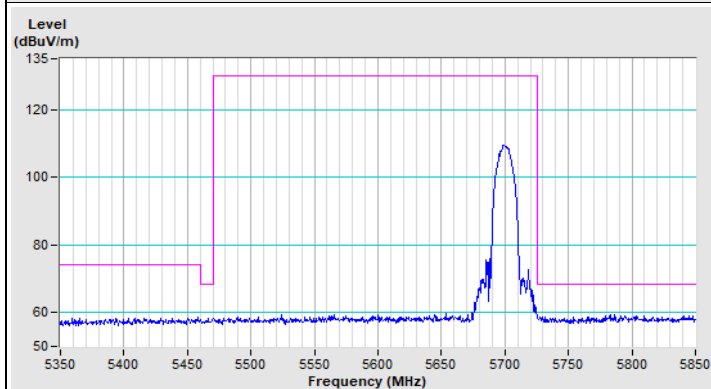


Vertical (Peak)

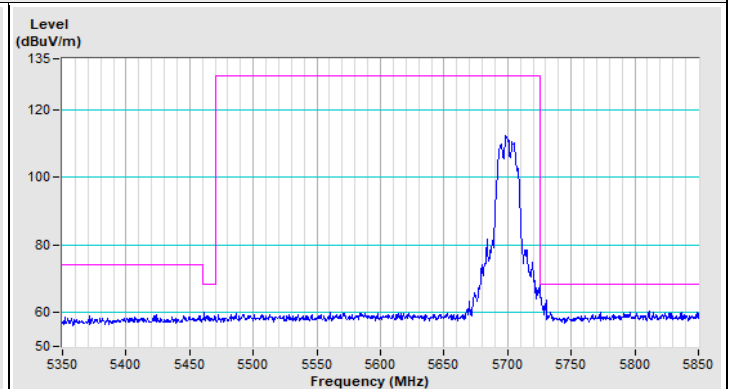


Vertical (Average)

802.11a Channel 140



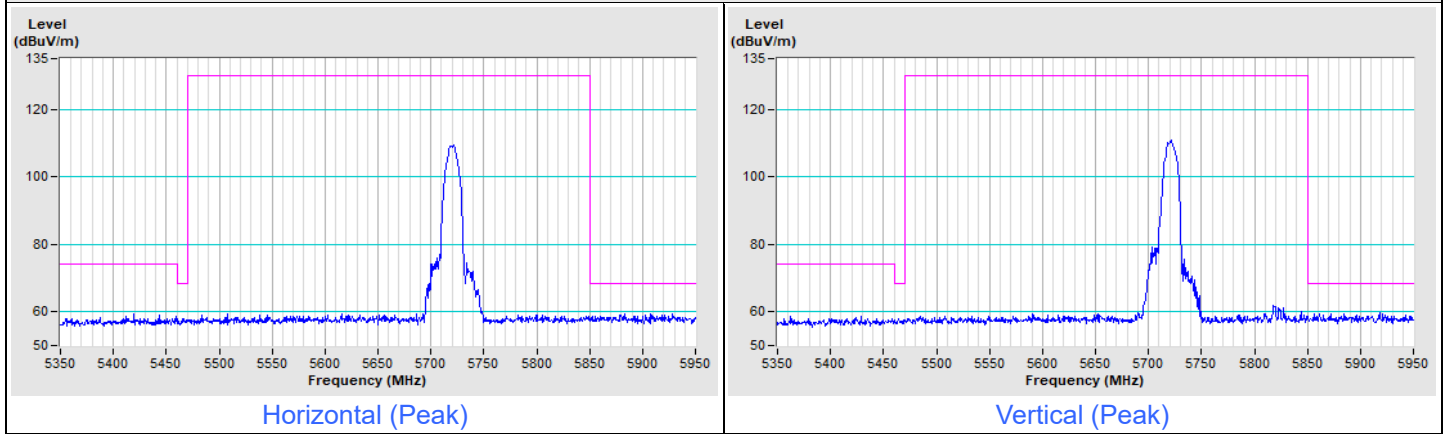
Horizontal (Peak)



Vertical (Peak)

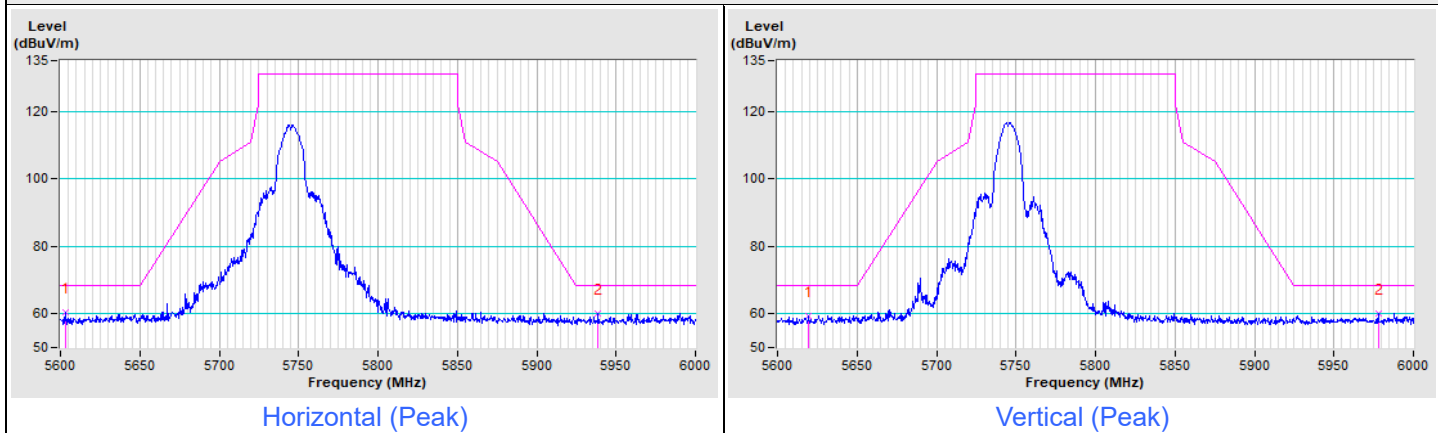
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

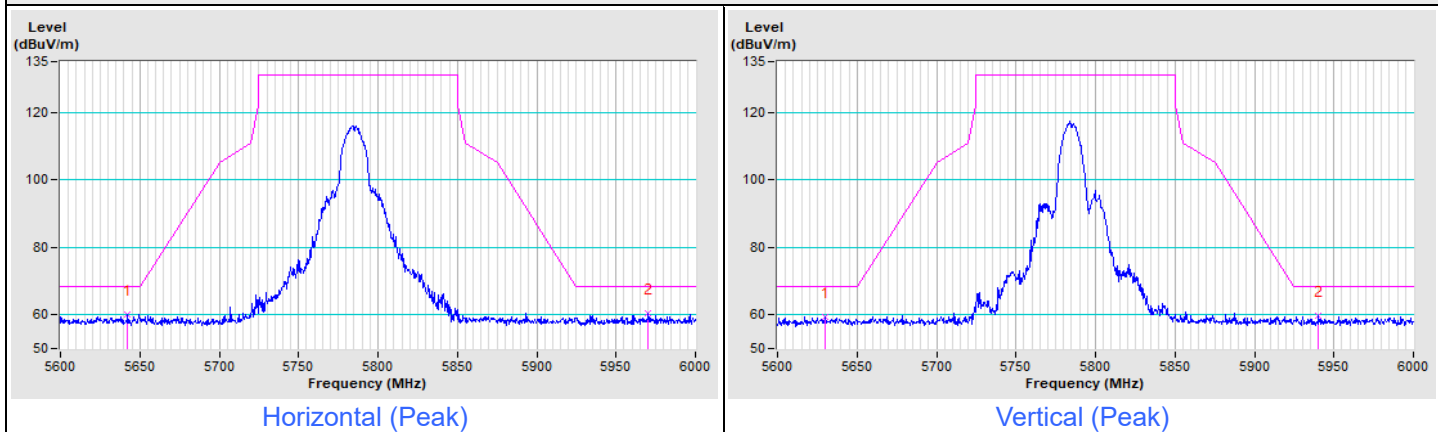


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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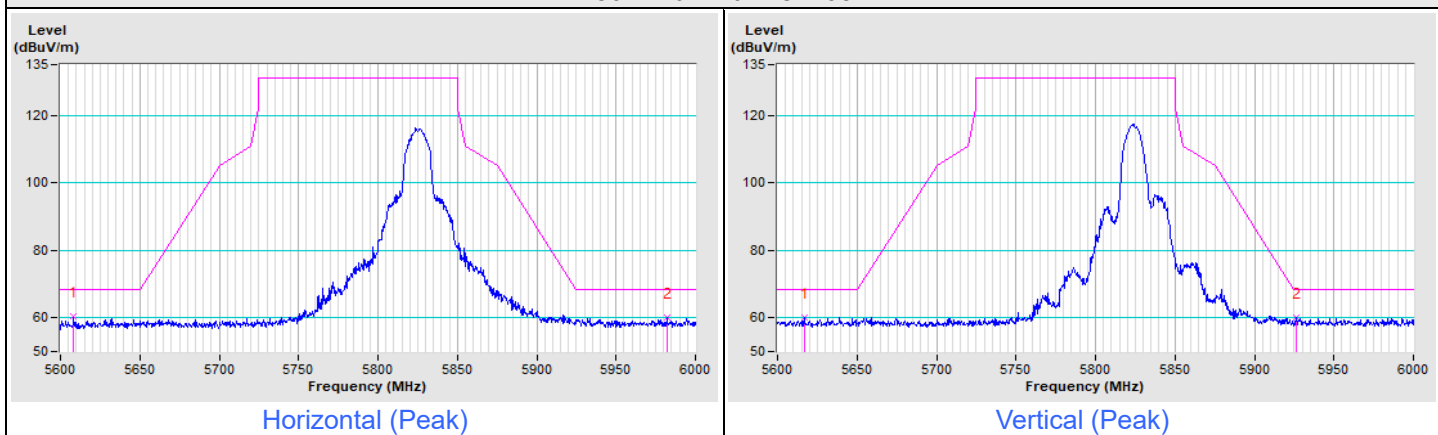
802.11a Channel 149



802.11a Channel 157

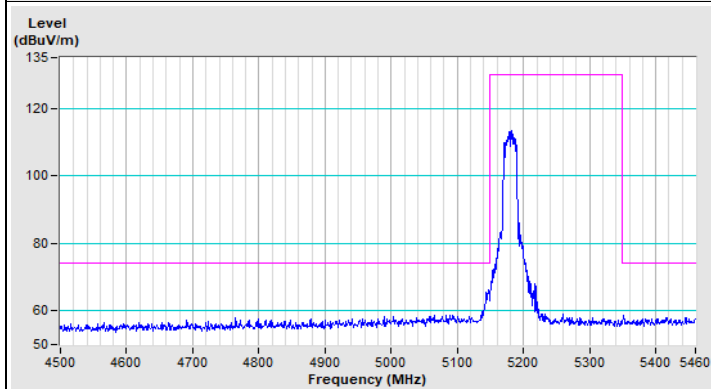


802.11a Channel 165

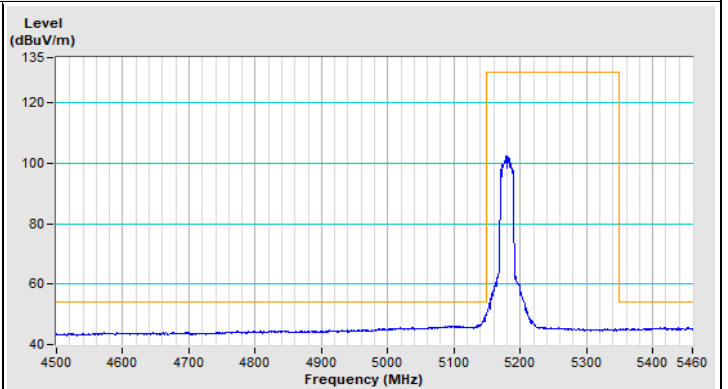


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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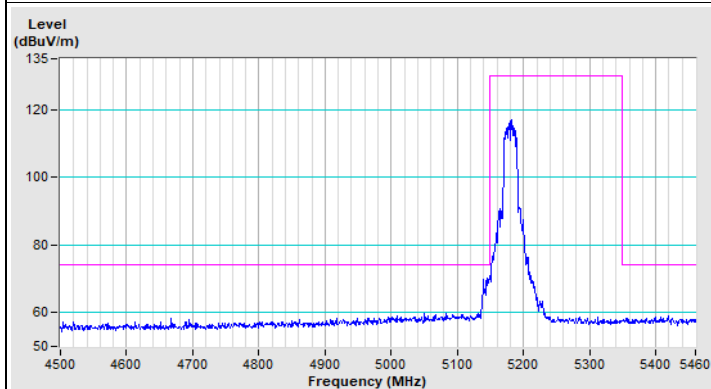
802.11ax (HE20) Channel 36



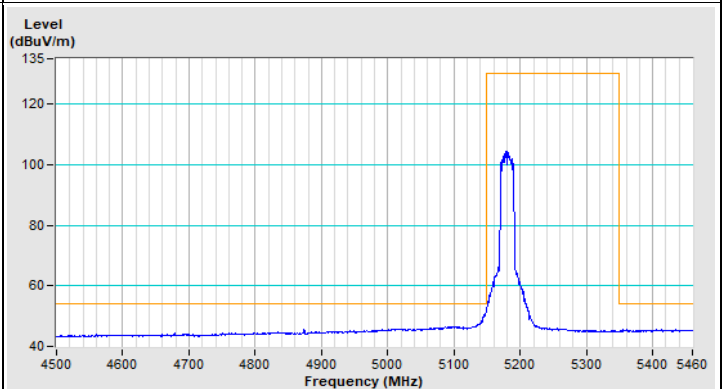
Horizontal (Peak)



Horizontal (Average)

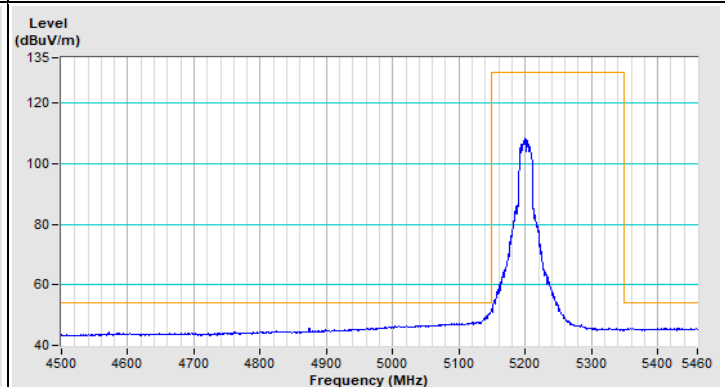
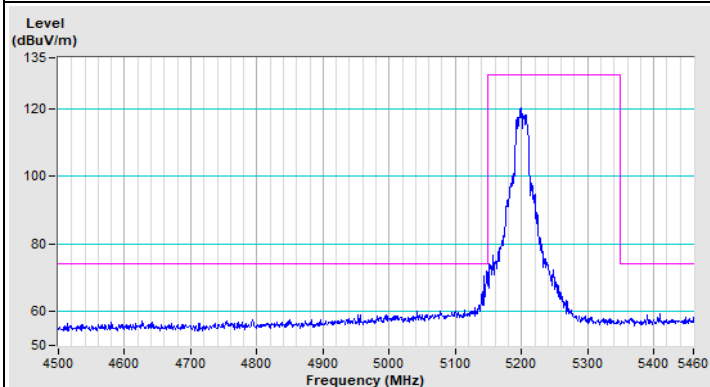
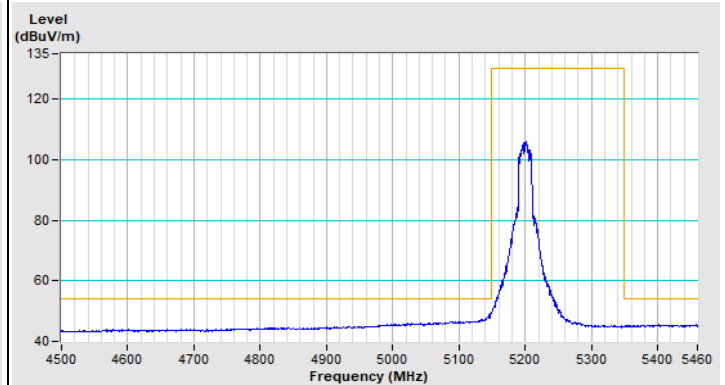
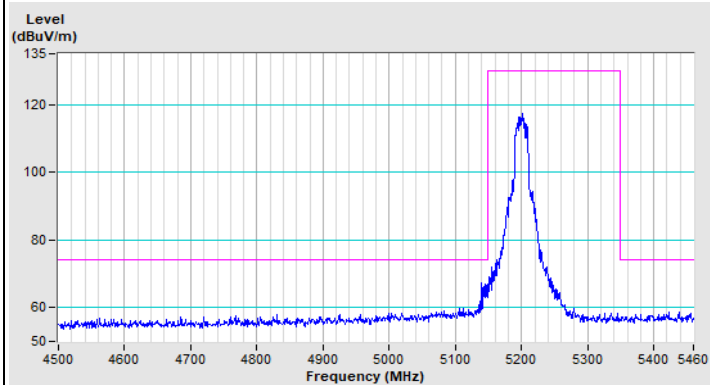


Vertical (Peak)

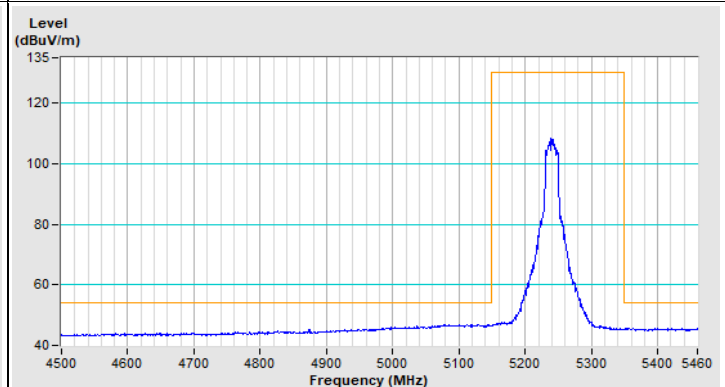
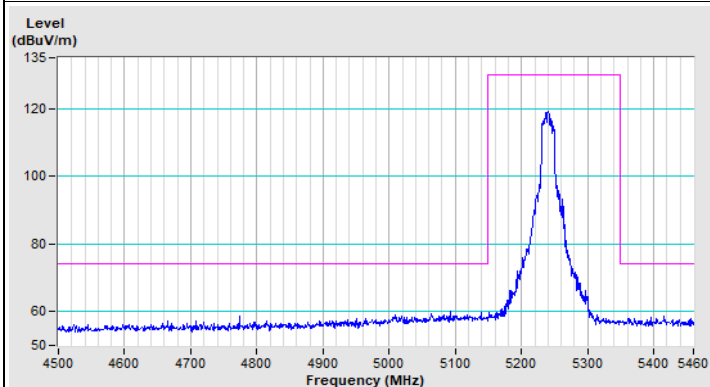
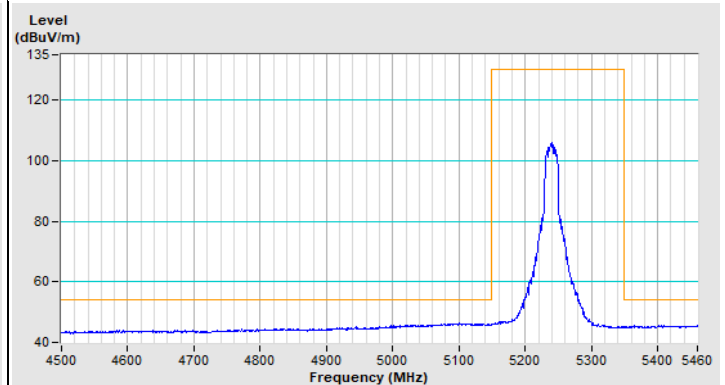
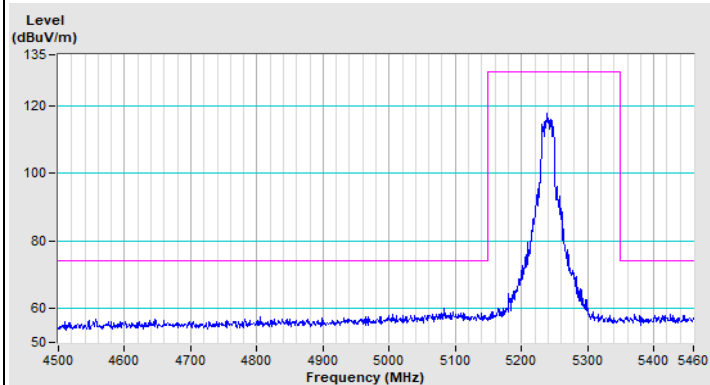


Vertical (Average)

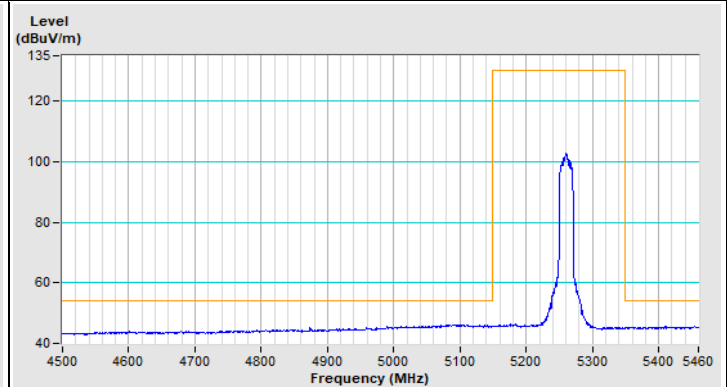
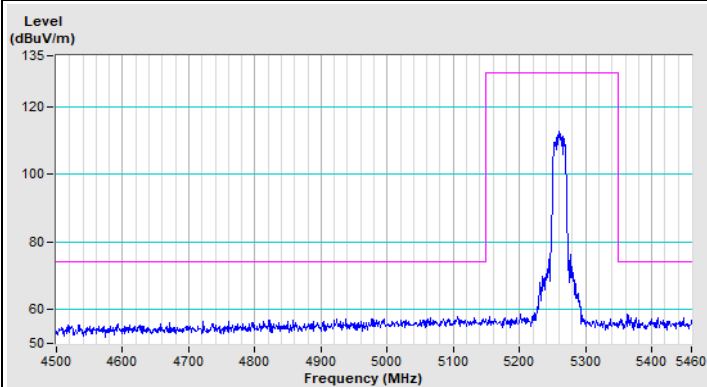
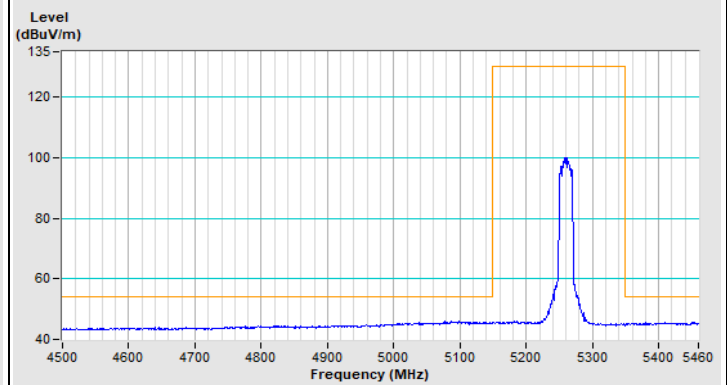
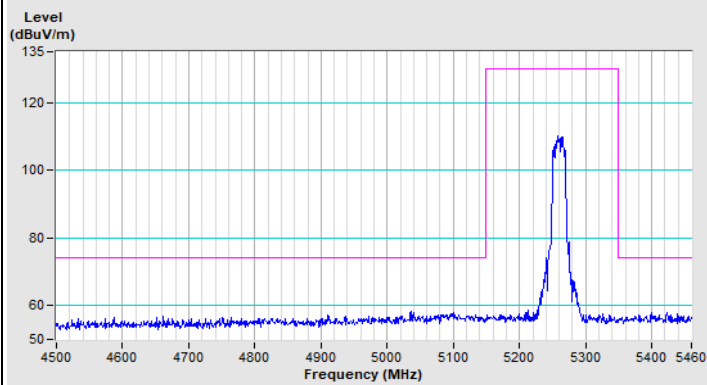
802.11ax (HE20) Channel 40



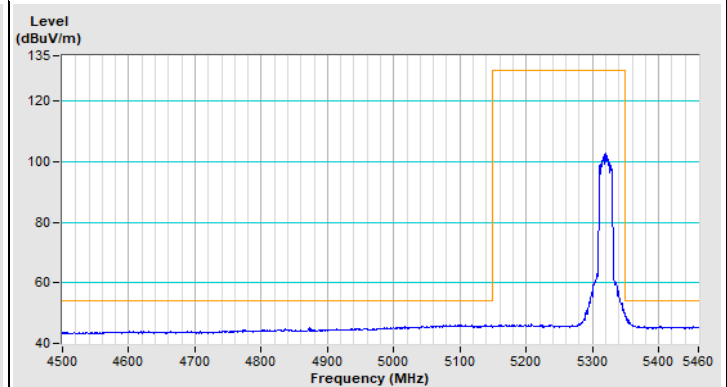
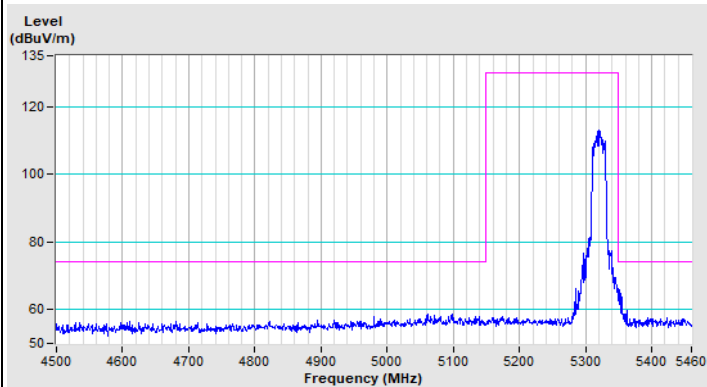
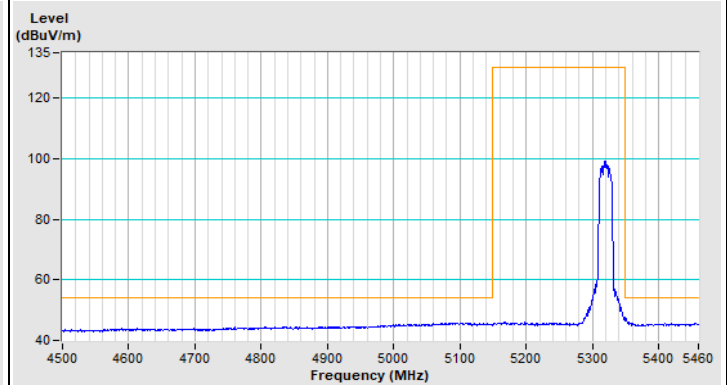
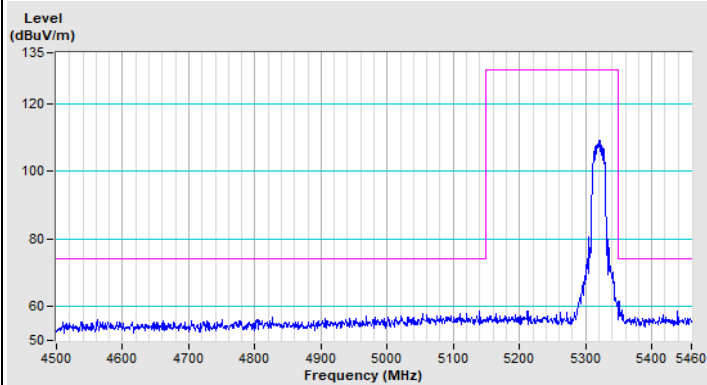
802.11ax (HE20) Channel 48



802.11ax (HE20) Channel 52

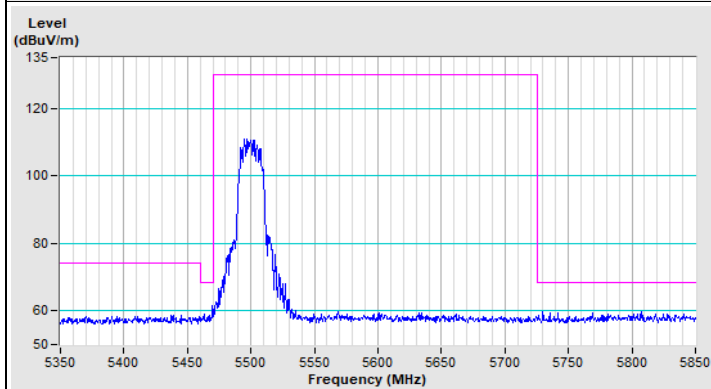


802.11ax (HE20) Channel 64

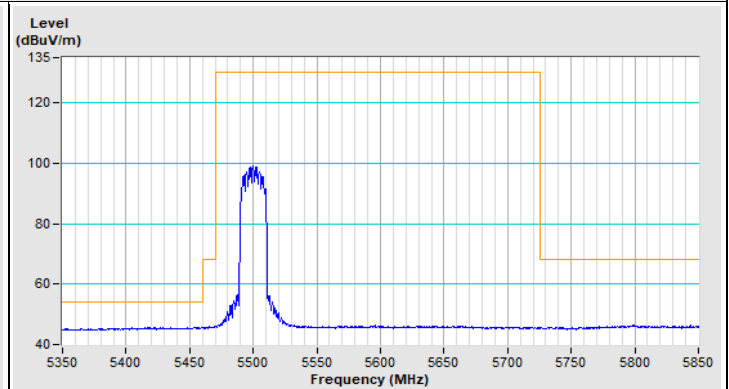


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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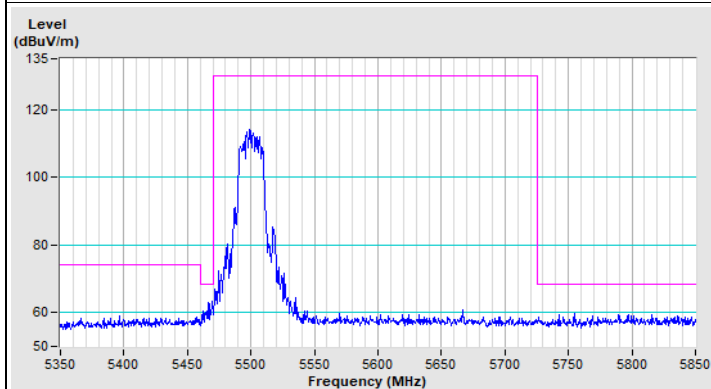
802.11ax (HE20) Channel 100



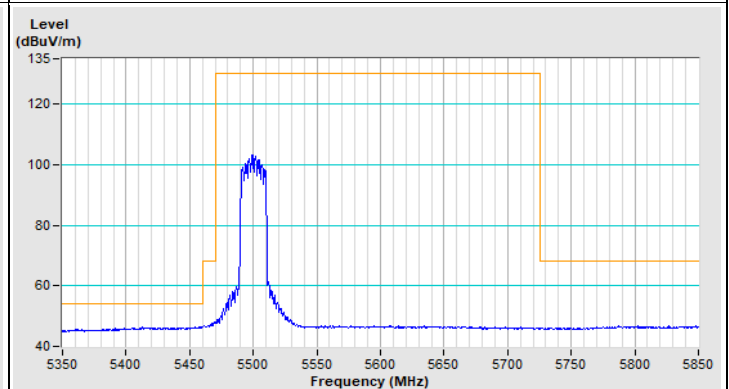
Horizontal (Peak)



Horizontal (Average)

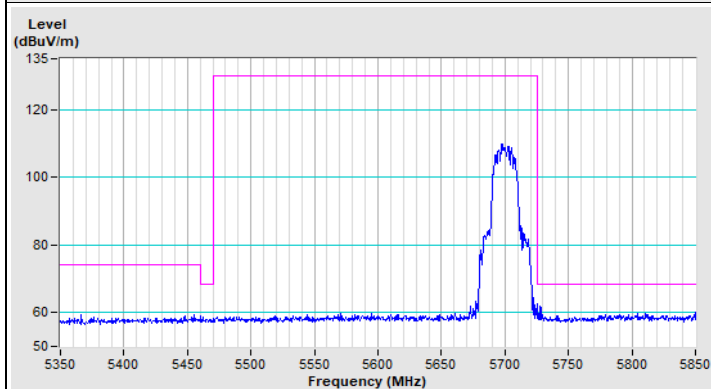


Vertical (Peak)

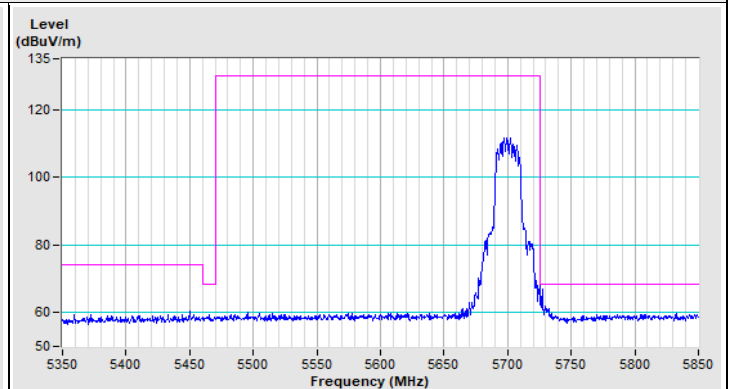


Vertical (Average)

802.11ax (HE20) Channel 140



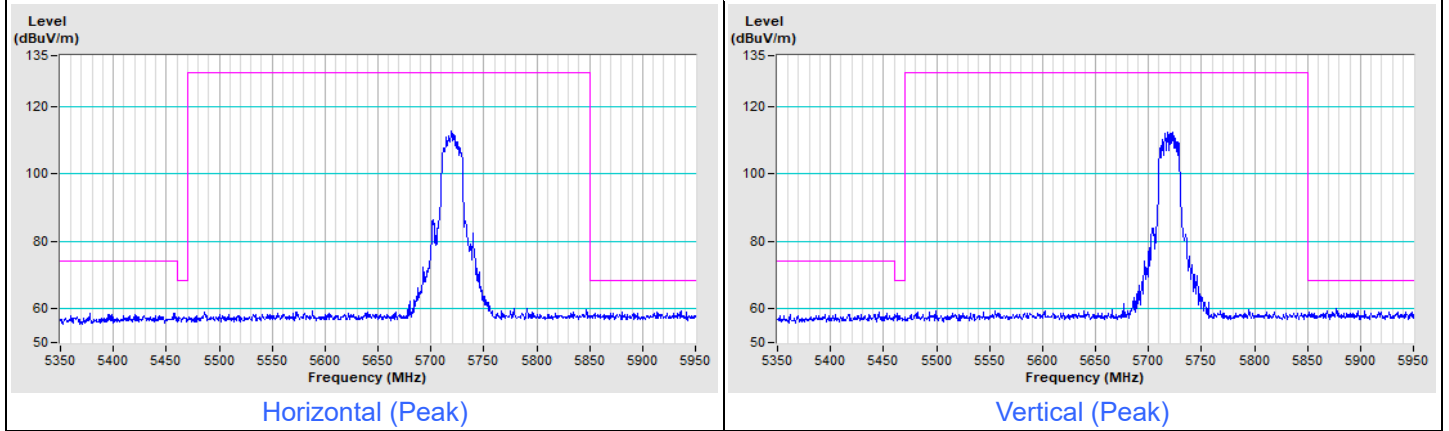
Horizontal (Peak)



Vertical (Peak)

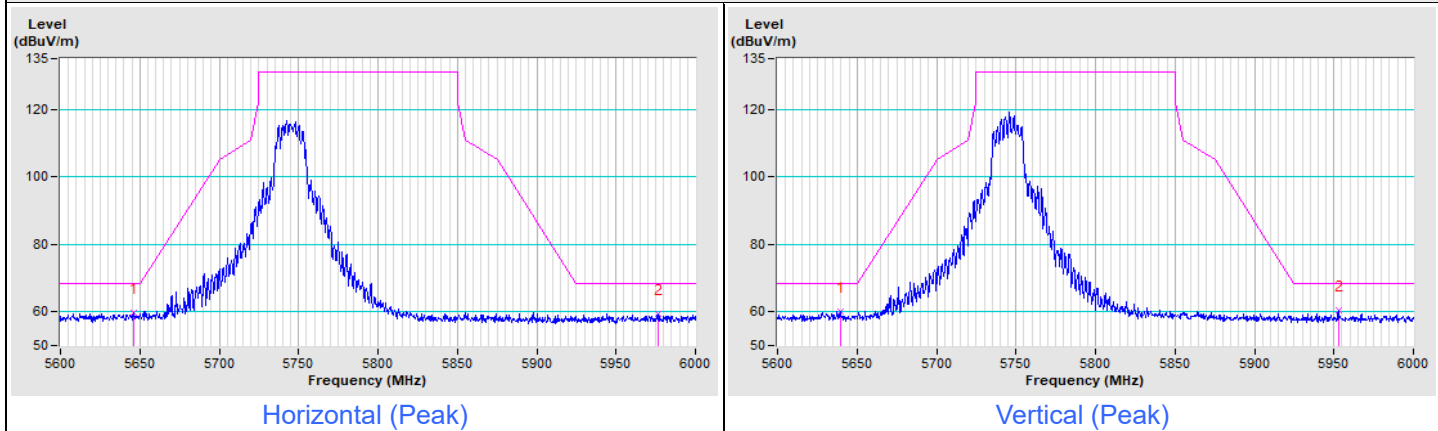
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE20) Channel 144

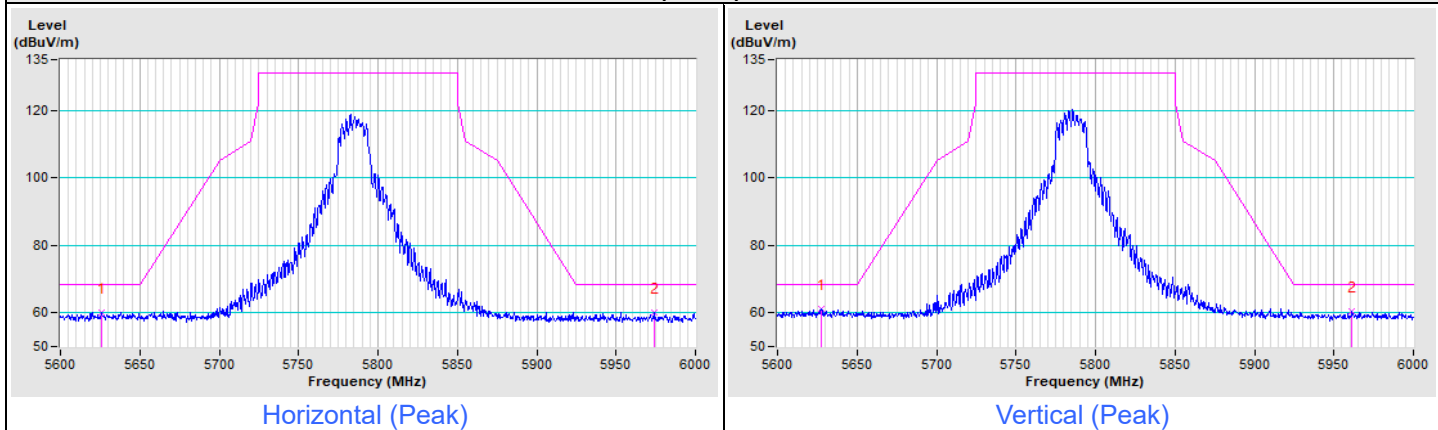


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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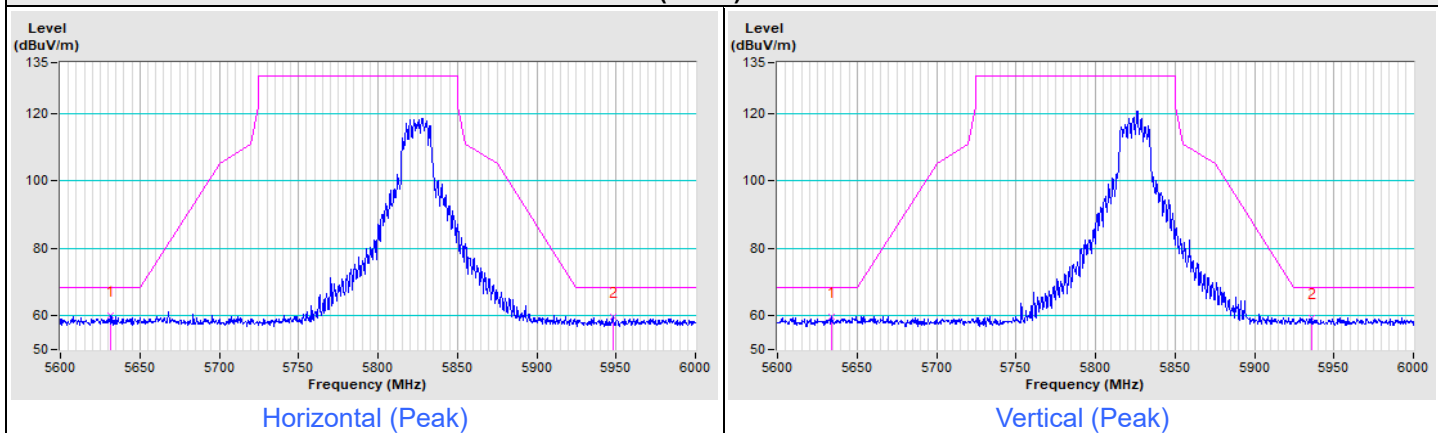
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

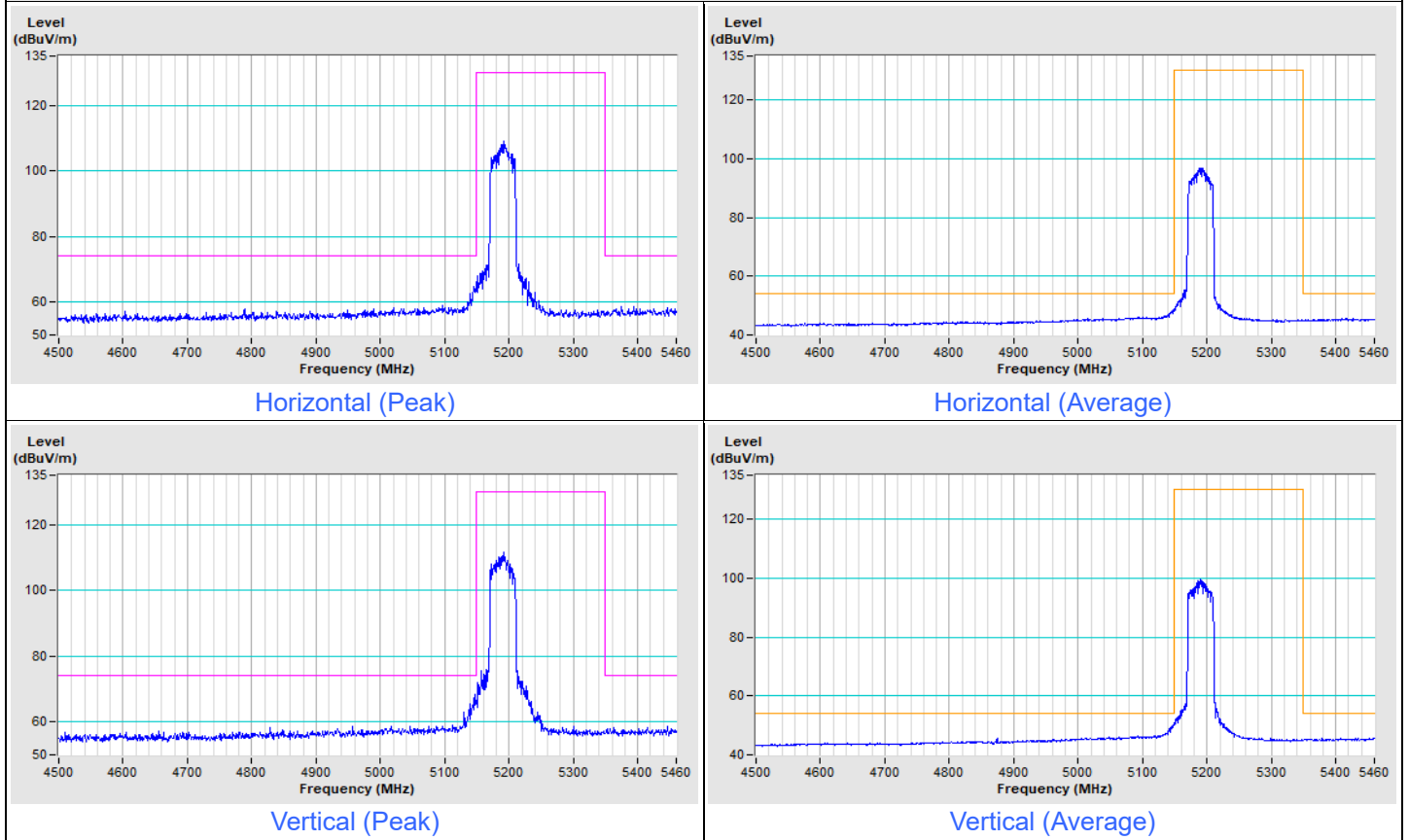


802.11ax (HE20) Channel 165

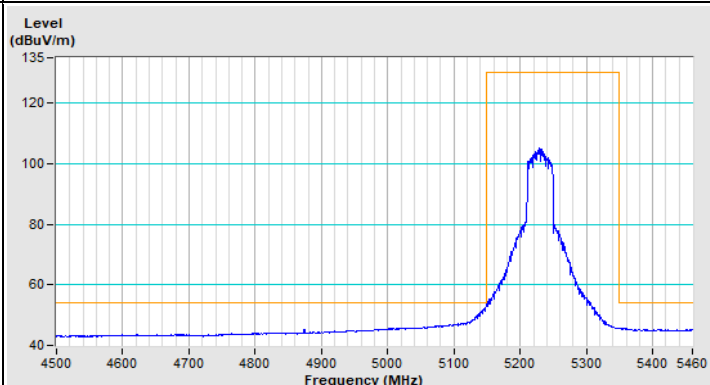
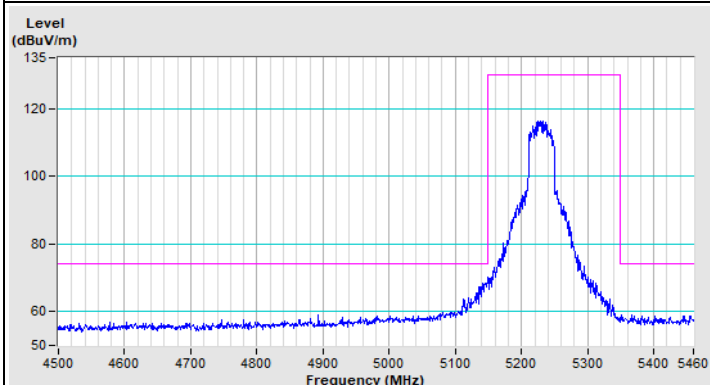
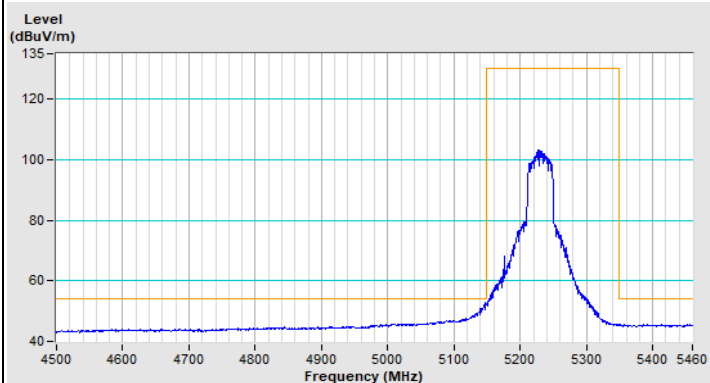
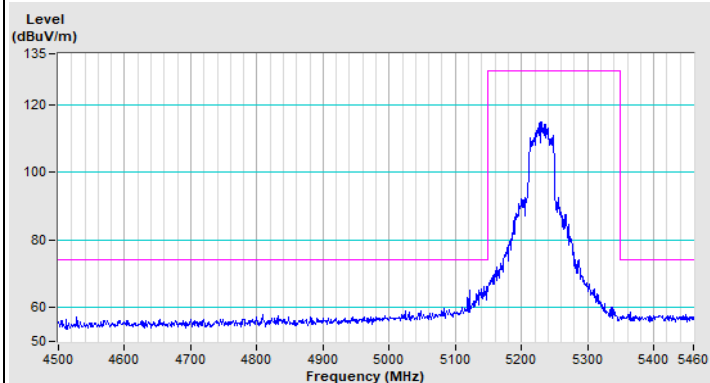


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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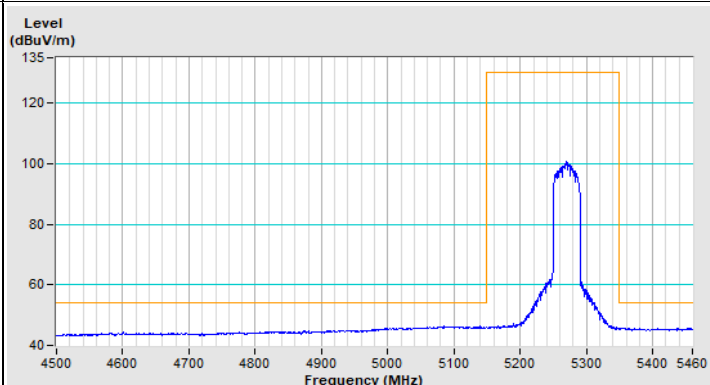
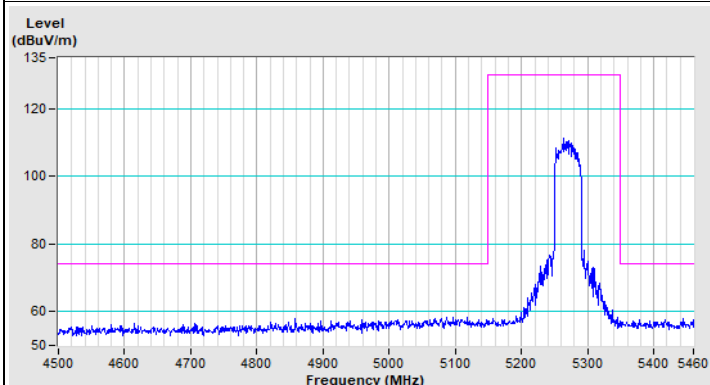
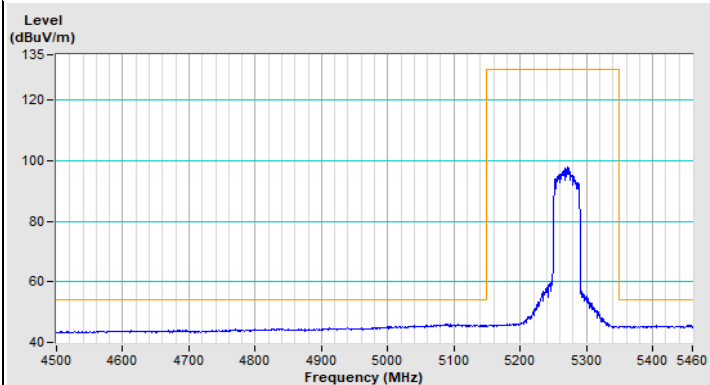
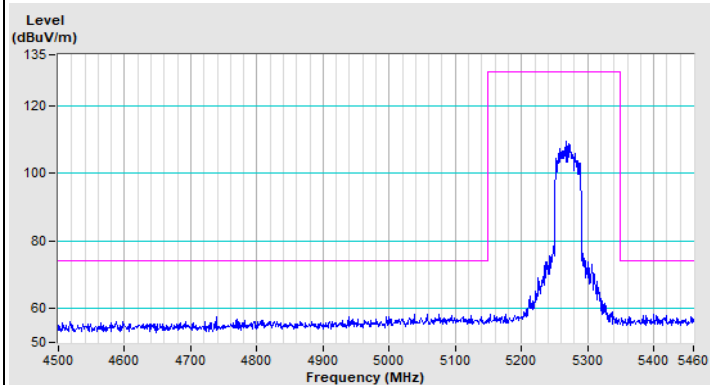
802.11ax (HE40) Channel 38



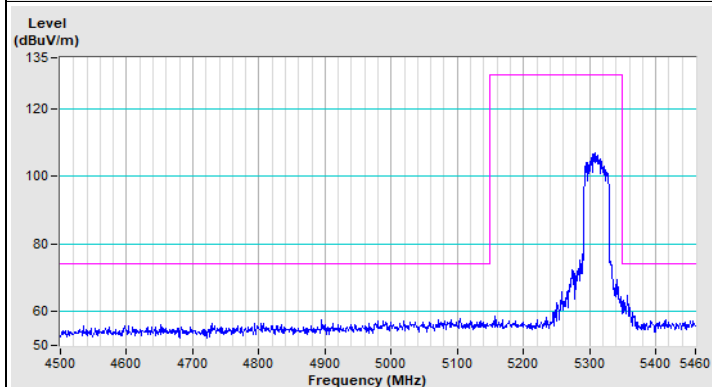
802.11ax (HE40) Channel 46



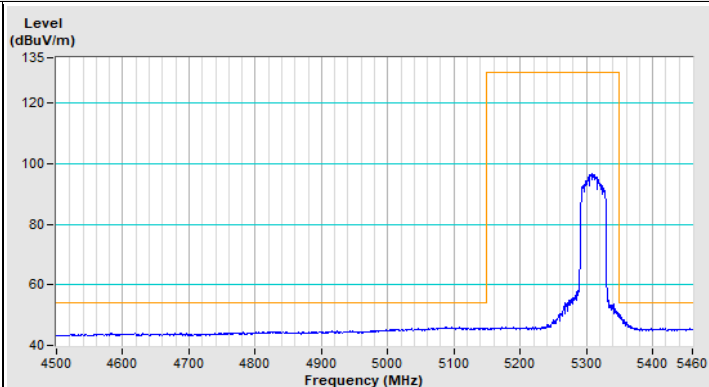
802.11ax (HE40) Channel 54



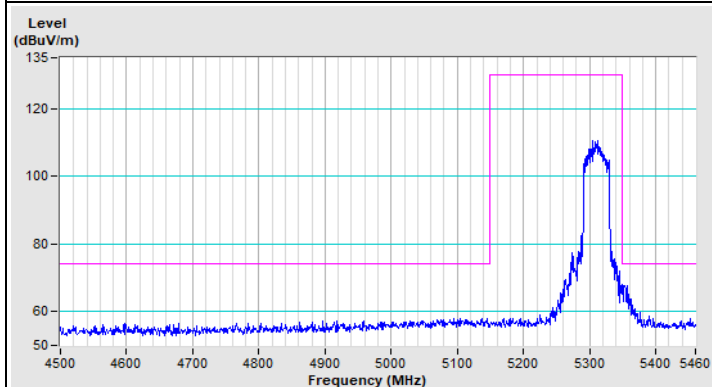
802.11ax (HE40) Channel 62



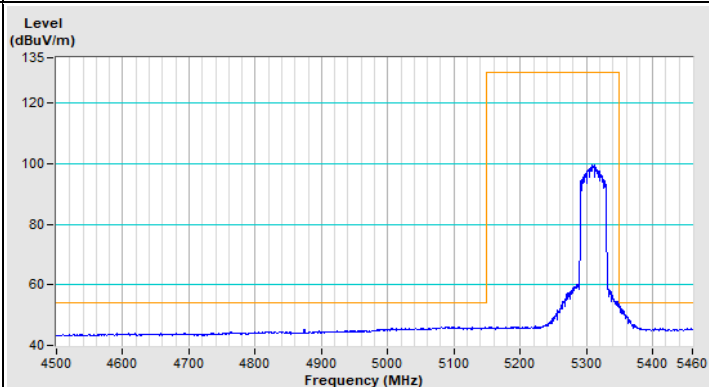
Horizontal (Peak)



Horizontal (Average)



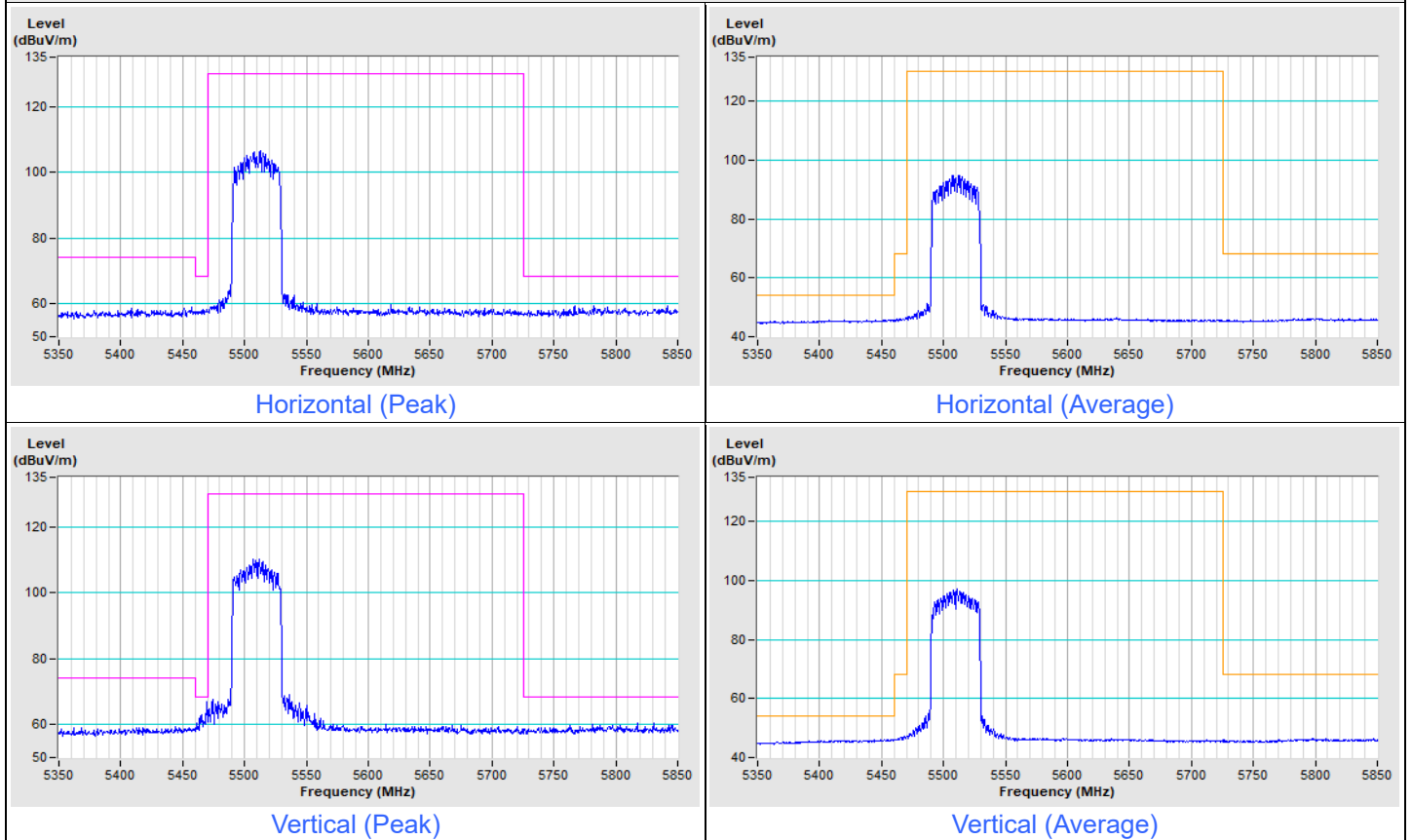
Vertical (Peak)



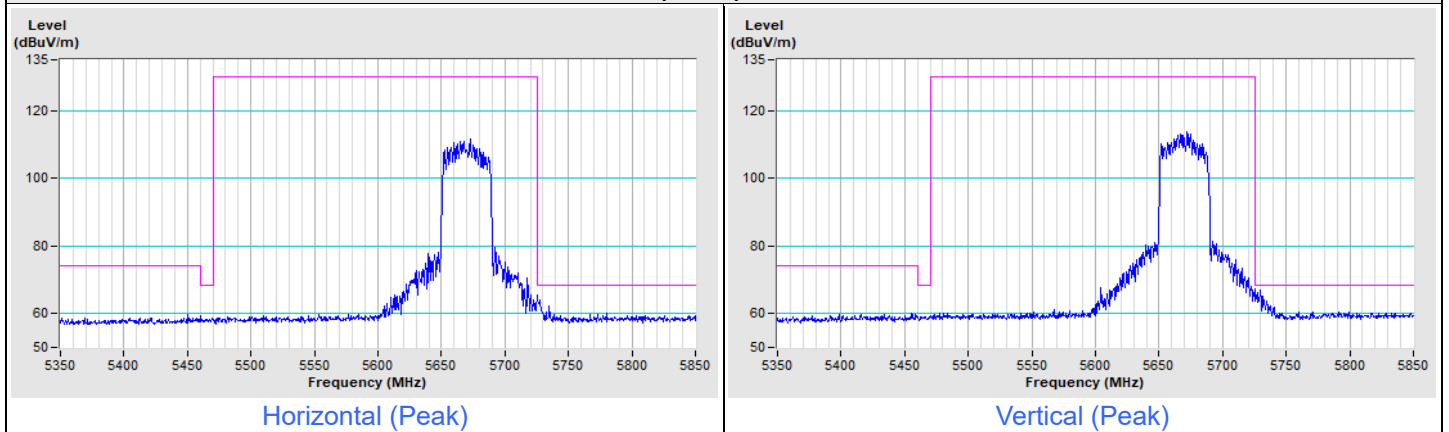
Vertical (Average)

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

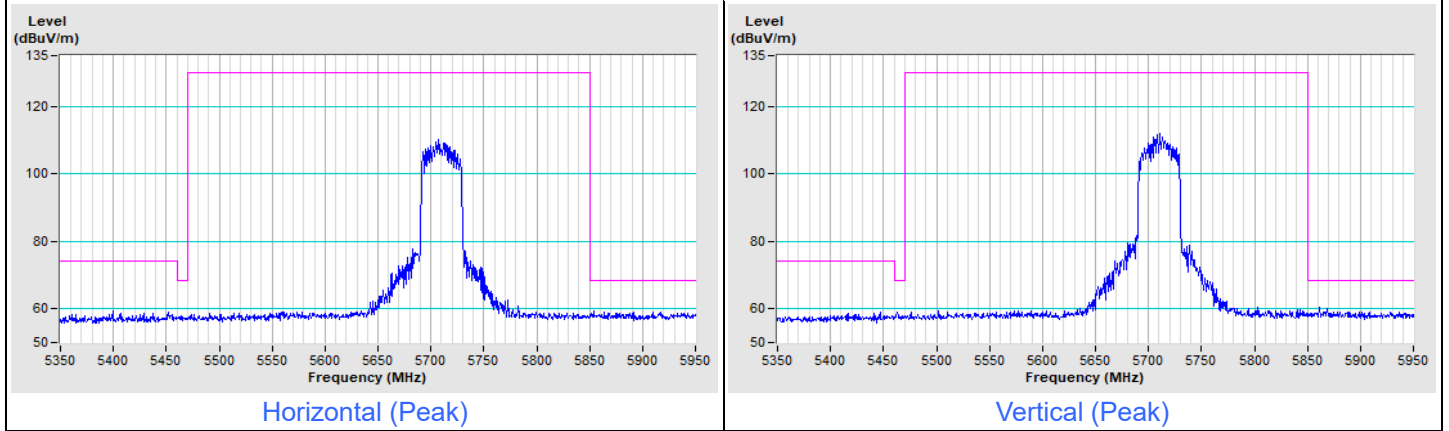


802.11ax (HE40) Channel 134



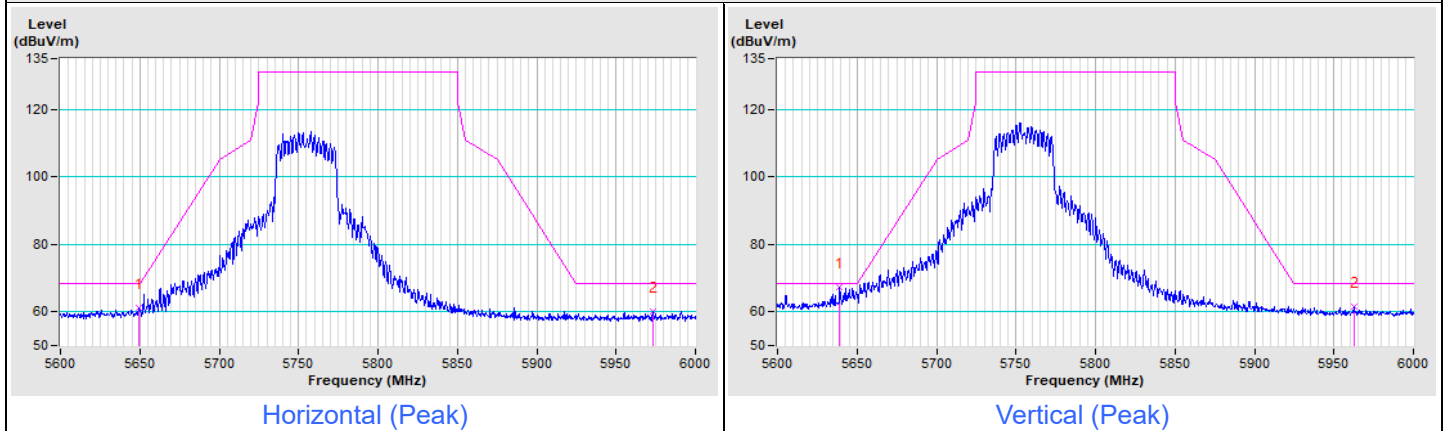
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 142

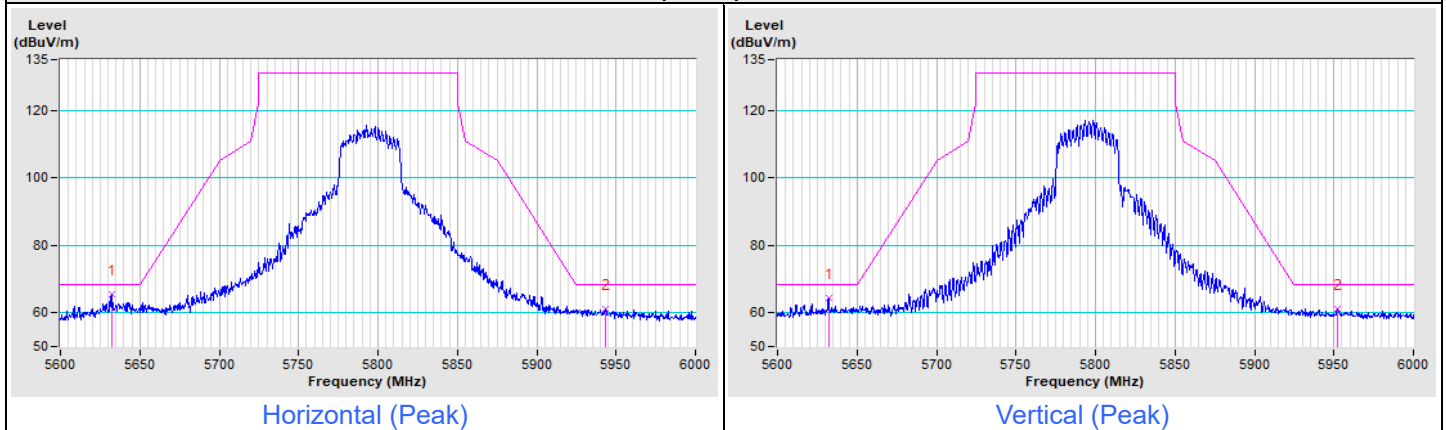


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

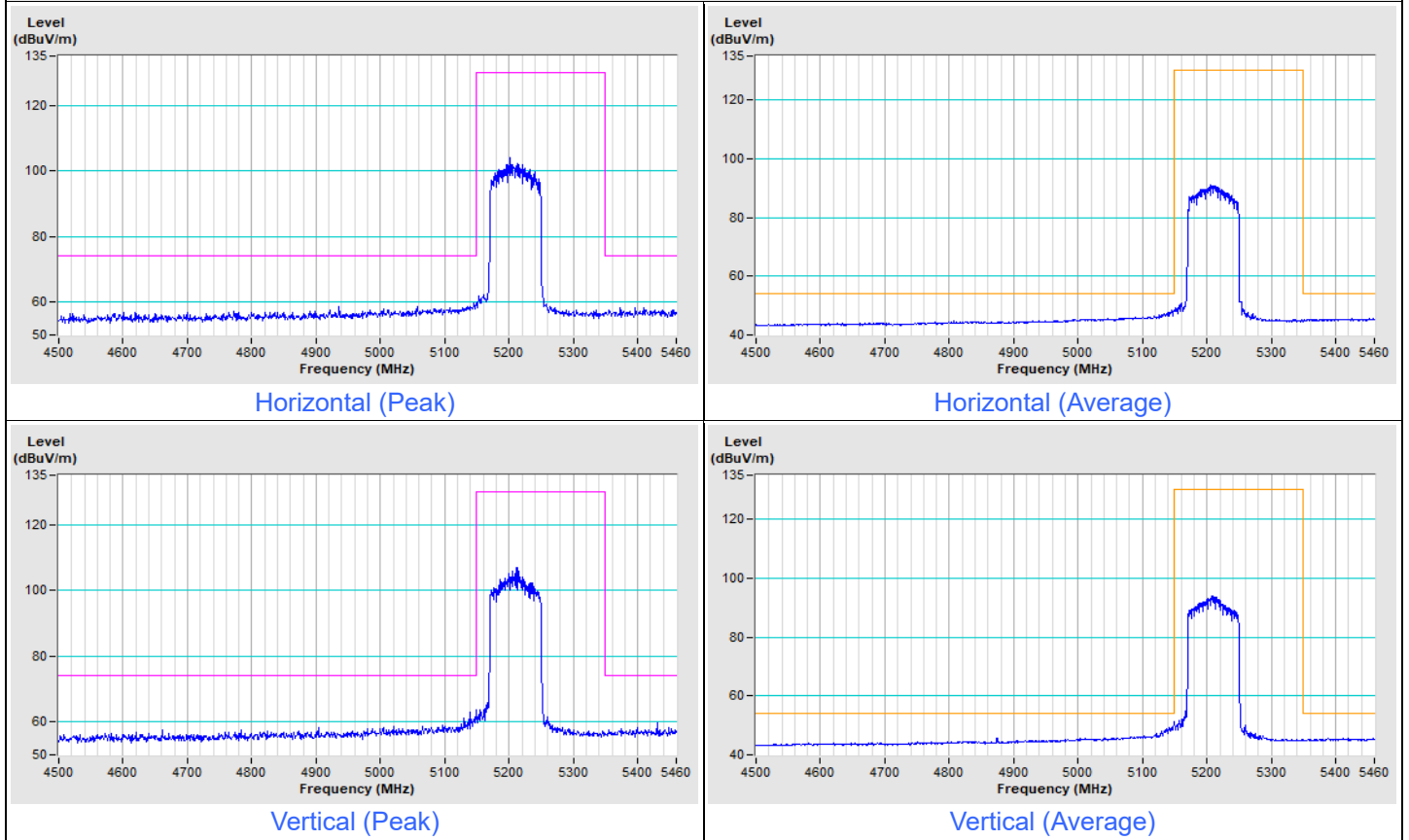


802.11ax (HE40) Channel 159

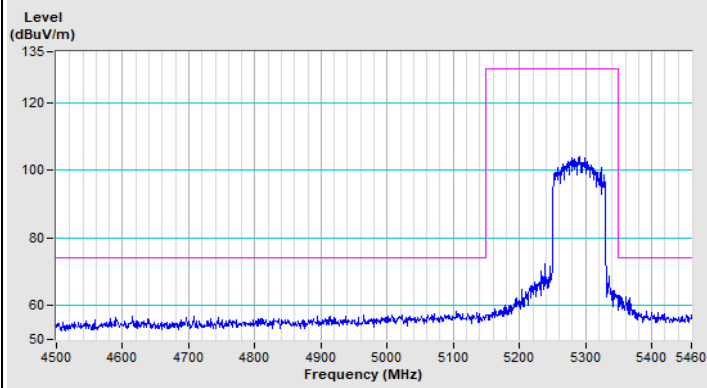


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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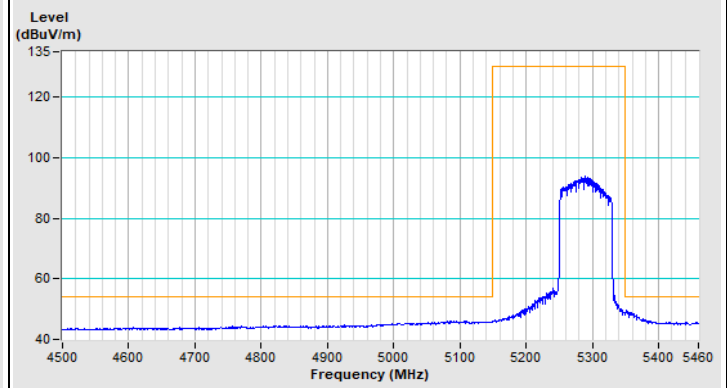
802.11ax (HE80) Channel 42



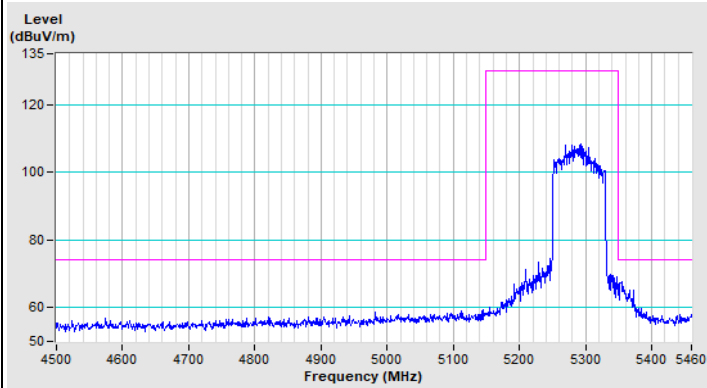
802.11ax (HE80) Channel 58



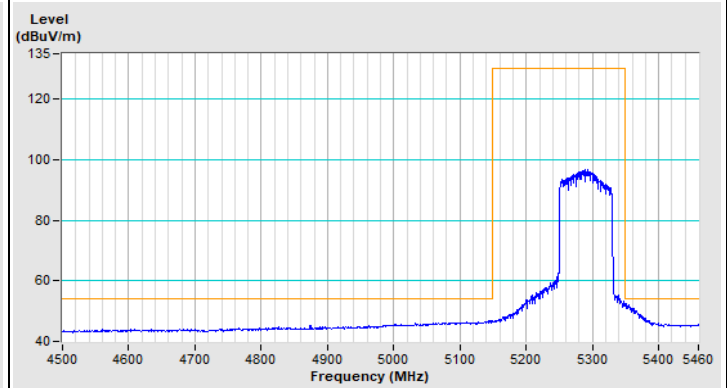
Horizontal (Peak)



Horizontal (Average)



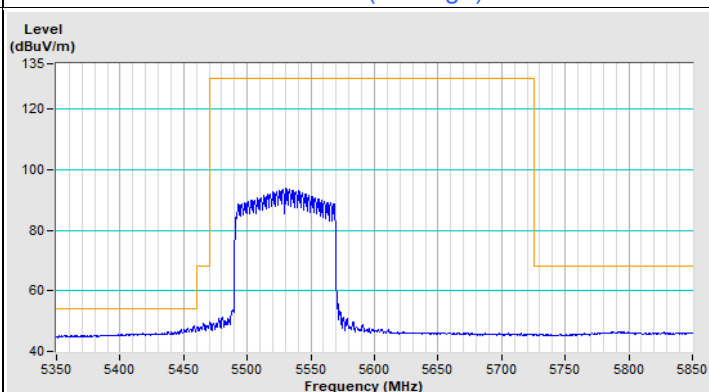
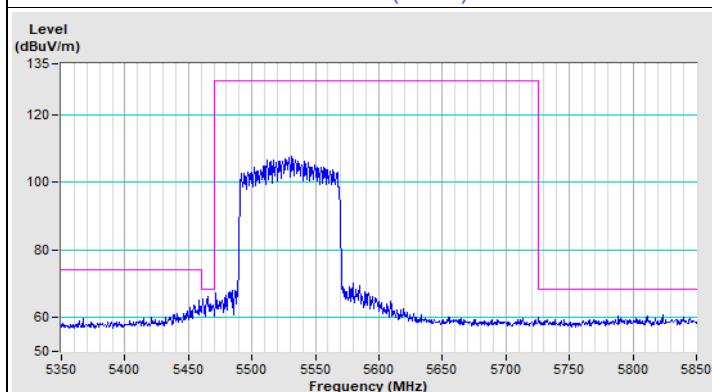
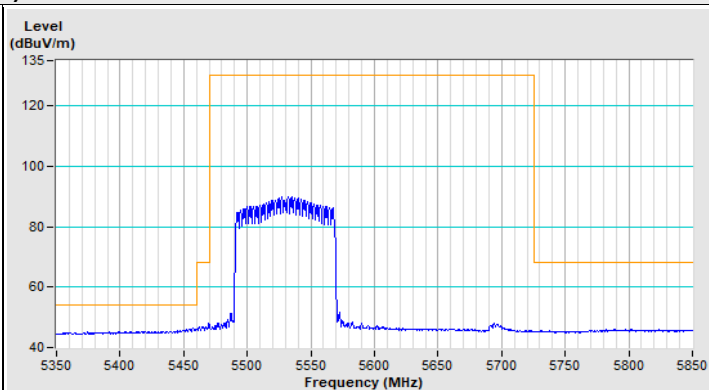
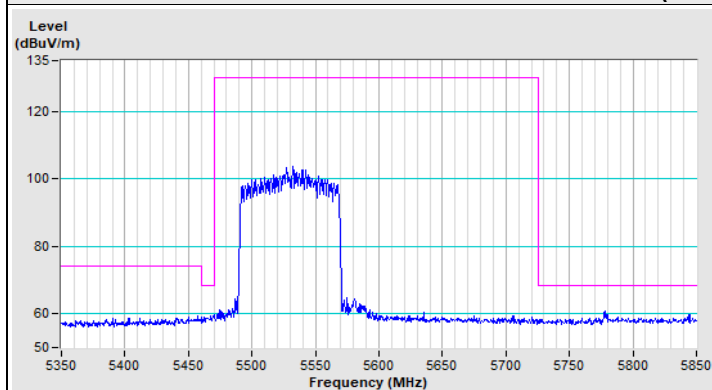
Vertical (Peak)



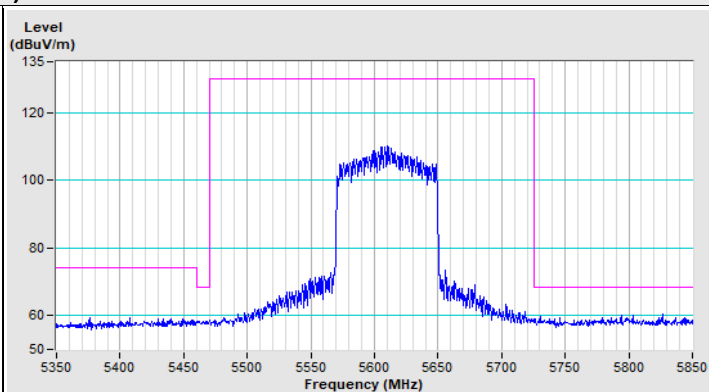
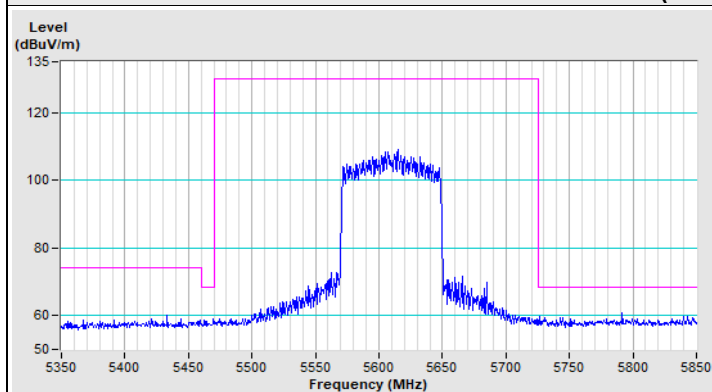
Vertical (Average)

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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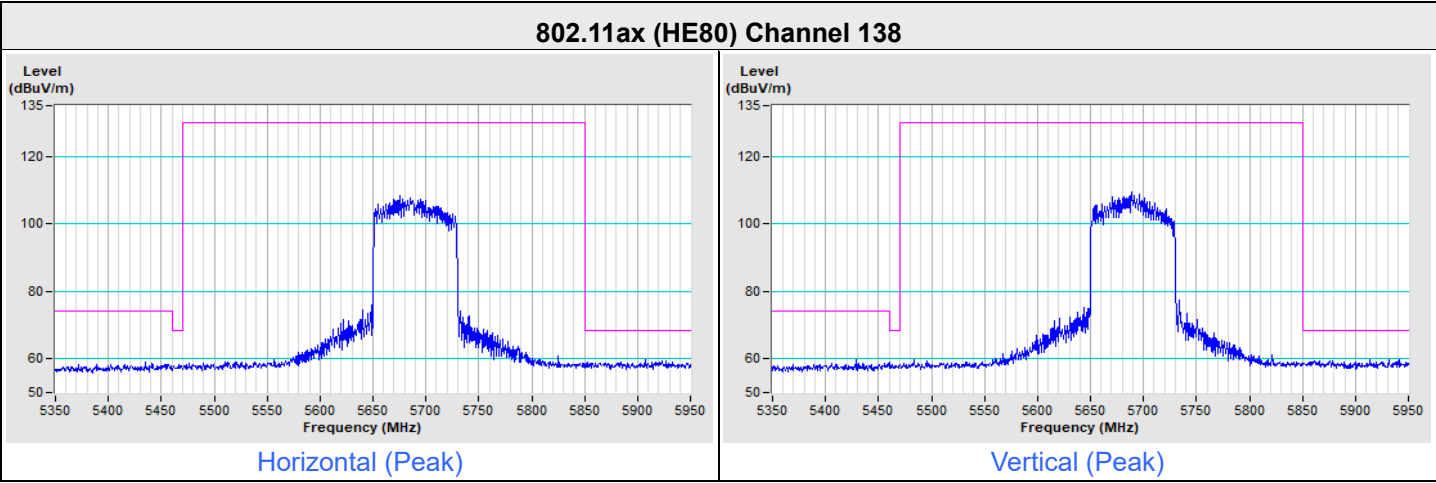
802.11ax (HE80) Channel 106



802.11ax (HE80) Channel 122

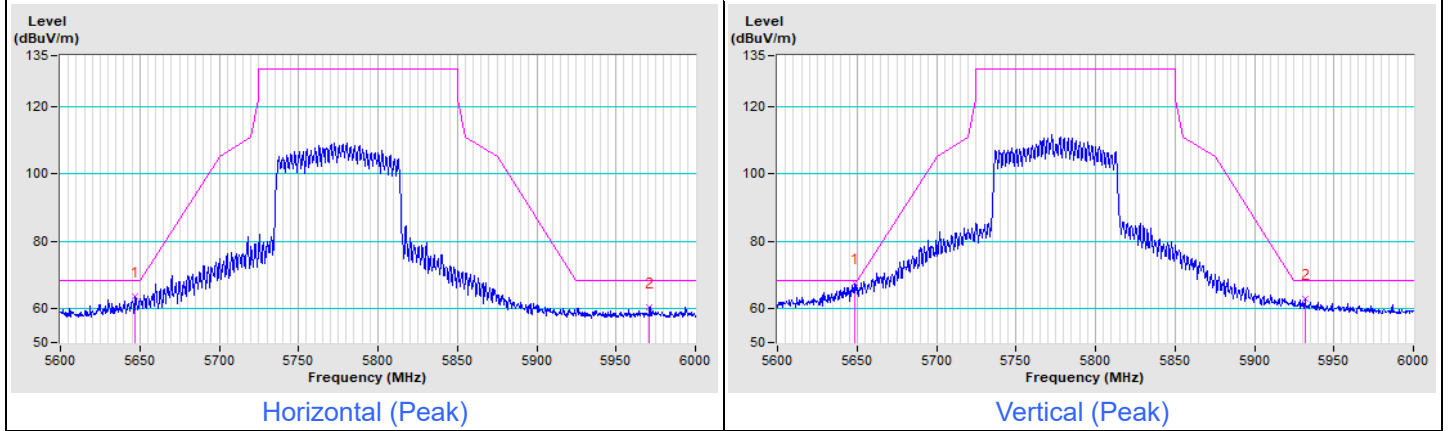


Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (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:

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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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