

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEOE-WTW-P26040365-3

FCC ID: MQT-AT160EL18U

Product: Terminal

Brand: XAC

Model No.: xCL_AT-160-EL-18U

Received Date: 2026/4/14

Test Date: 2026/5/14 ~ 2026/6/22

Issued Date: 2026/6/30

Applicant: XAC AUTOMATION CORP.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____



May Chen / Manager

, Date: _____

2026/6/30

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Prepared by: Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEOE-WTW-P26040365-3	Original release.	2026/6/30

1 Certificate

Product: Terminal

Brand: XAC

Test Model: xCL_AT-160-EL-18U

Sample Status: Engineering sample

Applicant: XAC AUTOMATION CORP.

Test Date: 2026/5/14 ~ 2026/6/22

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

Measurement ANSI C63.10-2020

procedure: KDB 789033 D02 General UNII Test Procedure New Rules 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 -18.94 dB at 0.15391 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.5 dB at 63.73 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 -0.3 dB at 5350.00 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Terminal
Brand	XAC
Test Model	xCL_AT-160-EL-18U
Status of EUT	Engineering sample
Power Supply Rating	7.6 Vdc from battery 5 Vdc from adapter 9 Vdc from Pogo charger
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20): 21 802.11n (HT40), 802.11ac (VHT40): 9 802.11ac (VHT80): 4
Partial RU Mode	Not support
Channel Puncturing	Not support
Output Power	5.18 GHz ~ 5.24 GHz: 15.136 mW (11.8 dBm) 5.26 GHz ~ 5.32 GHz: 14.689 mW (11.67 dBm) 5.5 GHz ~ 5.7 GHz: 16.52 mW (12.18 dBm) 5.745 GHz ~ 5.825 GHz: 10.617 mW (10.26 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Battery	SHENZHEN UTILITY ENERGY CO., LTD.	U752886PV	Power Rating: 7.6 Vdc, 2400mAh, 18.24Wh

2. The EUT has below radios as following table:

Radio 1	Radio 2	Radio 3
WLAN (2.4 GHz+5 GHz) + Bluetooth	WWAN (LTE)	NFC

3. Simultaneously transmission combination.

Combination	Technology			
1	NFC	Bluetooth	WLAN (5 GHz)	WWAN(LTE)

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type
1	WiFi/BT	Quectel	Y0XAC00A2DA	0.3	2.4~2.4835	PIFA	ipex(MHF)
				2.4	5.15~5.85		

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

2. The EUT incorporates a SISO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ac (VHT80)	1TX	1RX

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 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):

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):

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5580 MHz & 5660 MHz ~ 5700 MHz

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz		

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
106	5530 MHz

FOR 5745 ~ 5825 MHz:

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

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):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. For Unwanted Emission (below 1GHz) and AC Power Conducted Emission item: Battery / AC Adapter / Pogo Charger. Pre-scan these modes and find the worst case as a representative test condition. 2. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways 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).
Worst Case:	1. Power Supply Worst Condition: ➤ Unwanted Emission below 1GHz: AC Adapter ➤ AC Power Conducted Emission: Pogo Charger 2. X-axis/ Y-axis/ Z-axis Worst Condition: ➤ Y-axis for Unwanted Emissions above 1 GHz ➤ X-axis for Unwanted Emissions below 1 GHz

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	52, 60, 64, 100, 116, 140	BPSK	MCS0
	802.11ac (VHT40)	CDD	54, 62, 102, 110, 134	BPSK	MCS0
	802.11ac (VHT80)	CDD	58, 106	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 155	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11ac (VHT80)	CDD	106	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ac (VHT80)	CDD	106	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140 149, 157, 165	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 155	BPSK	MCS0

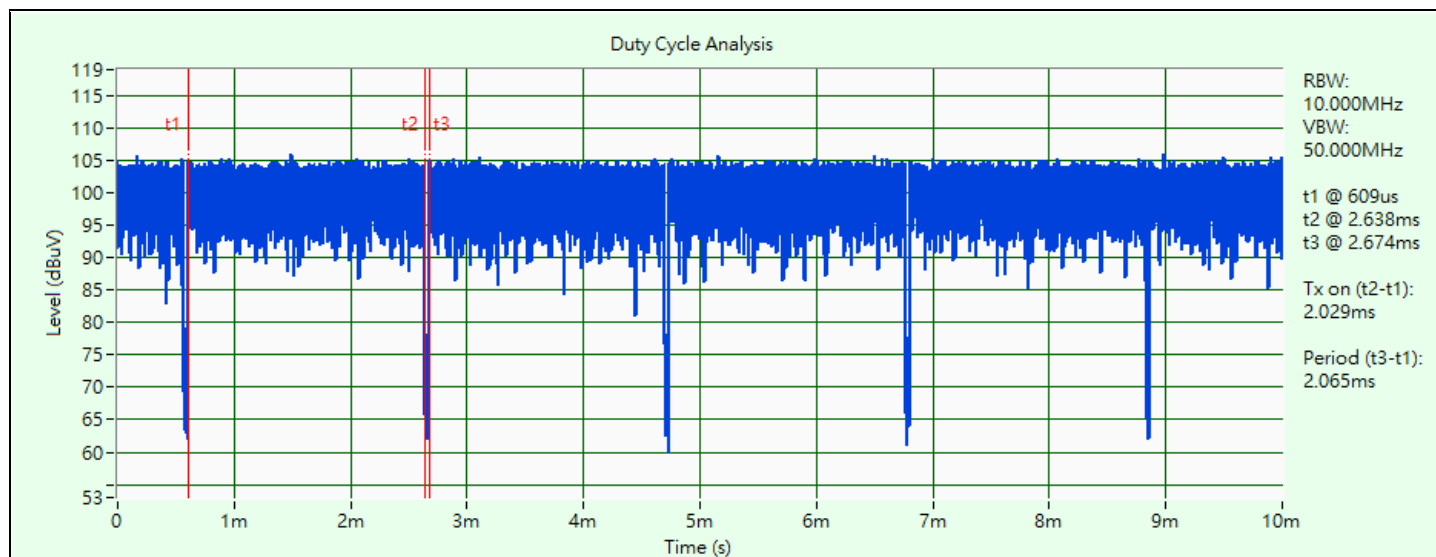
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.029 ms / 2.065 ms x 100% = 98.3%

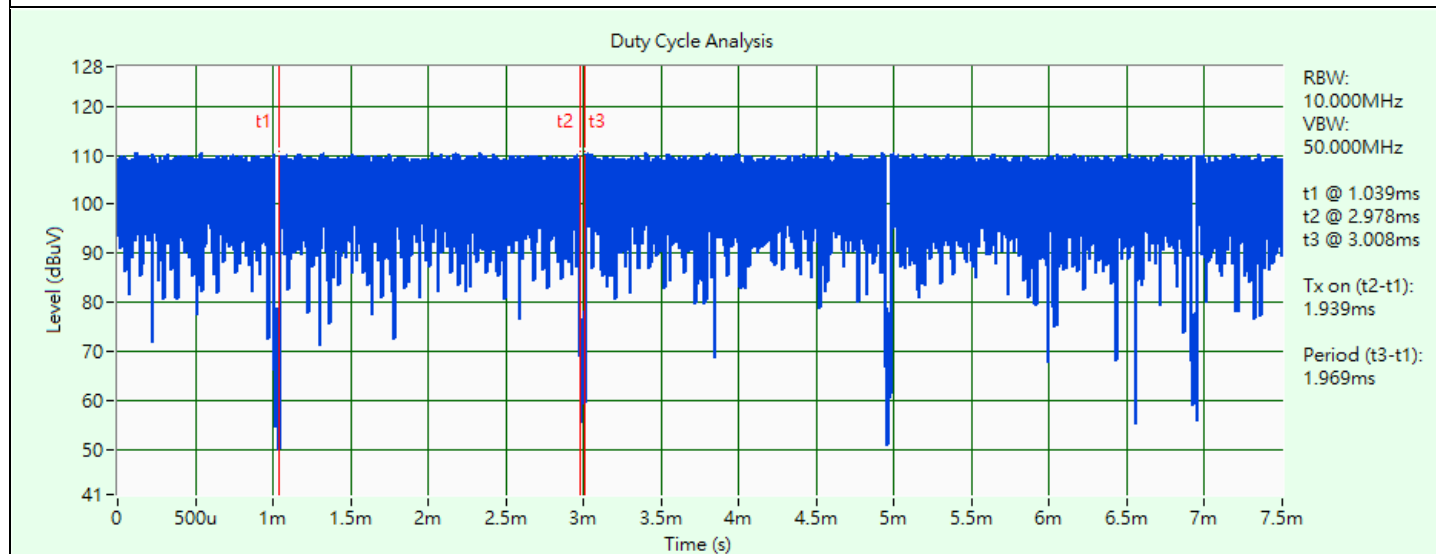
802.11ac (VHT20): Duty cycle = 1.939 ms / 1.969 ms x 100% = 98.5%

802.11ac (VHT40): Duty cycle = 0.969 ms / 0.989 ms x 100% = 98.0%

802.11ac (VHT80): Duty cycle = 1.712 ms / 1.741 ms x 100% = 98.3%

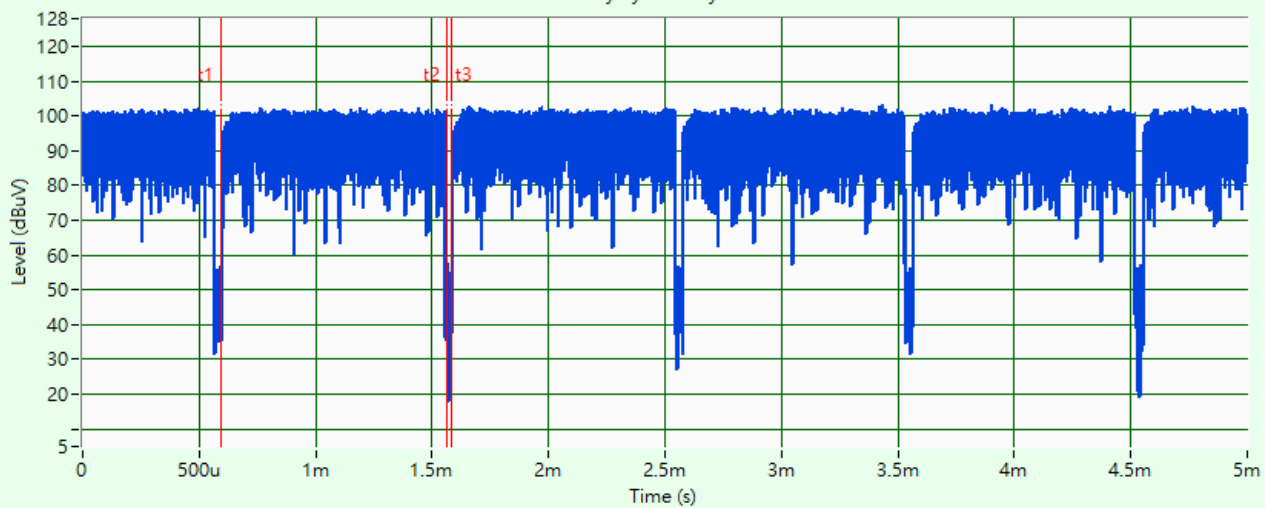


802.11a



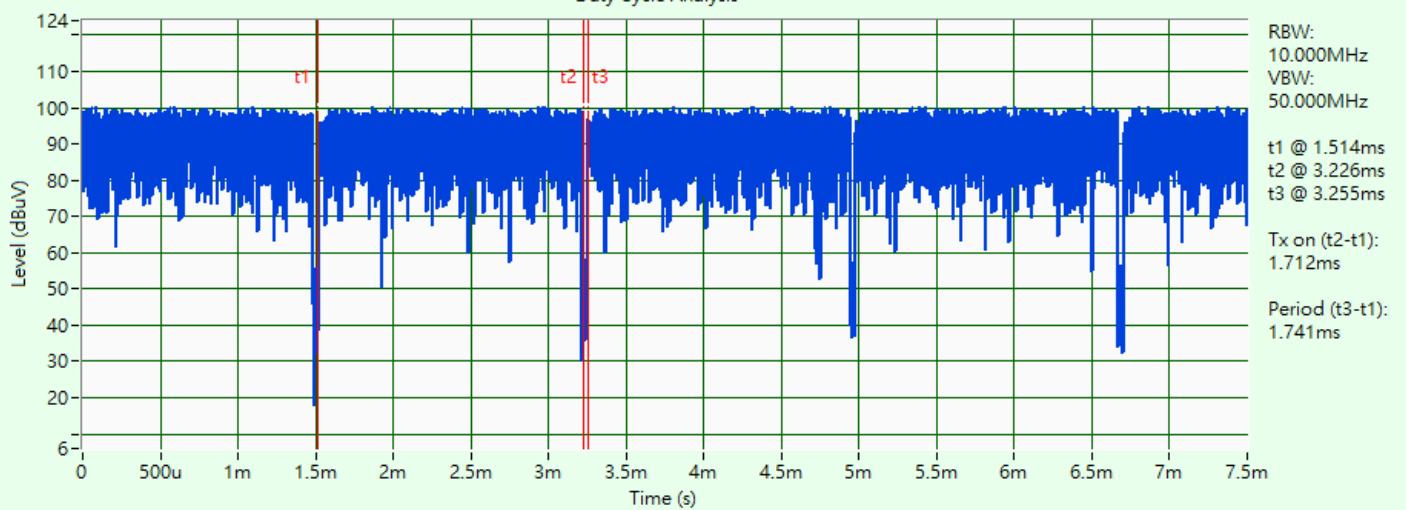
802.11ac (VHT20)

Duty Cycle Analysis



802.11ac (VHT40)

Duty Cycle Analysis



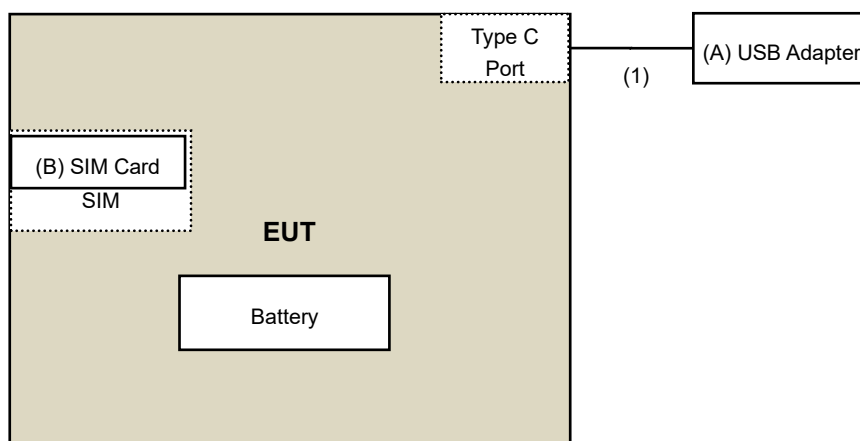
802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

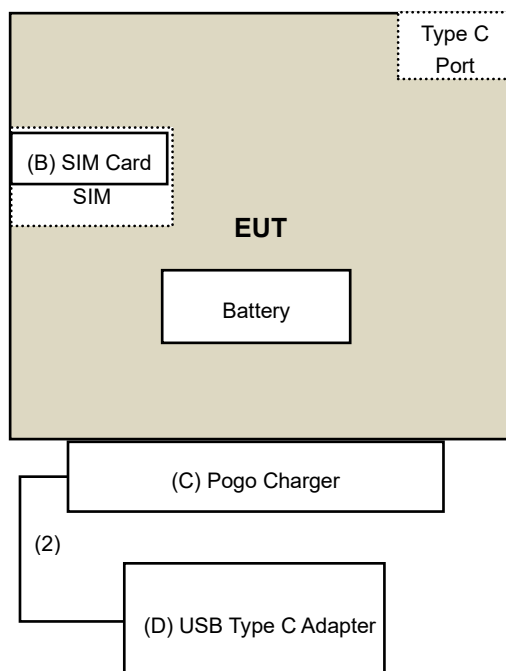
Controlling software (QDART_WIN_4_8_Installer_00057_1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	AC (USB) Adapter	MASS POWER	NBS10B050200VUU	N/A	N/A	Supplied by applicant
B	SIM Card	Keysight	E7515-10910	N/A	N/A	Provided by Lab
C	Pogo Charger	XAC	Pogo Charger	N/A	N/A	Supplied by applicant
D	AC (USB Type C) Adapter	DEEVAN	DSA-33PDA FUS	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1.2	YES	0	Supplied by applicant
2	USB Cable	1	1	YES	0	Supplied by applicant

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
EXA Signal Analyzer Keysight	N9010A	MY56070348	2025/7/14	2026/7/13
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/6/3

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2026/5/21	2027/5/20
Pulse Power Sensor Anritsu	MA2411B	1726433	2026/5/8	2027/5/7
RF Power Meter Anritsu	ML2496A	1920012	2026/5/8	2027/5/7

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/6/3

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

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EXA Signal Analyzer Keysight	N9010A	MY56070348	2025/7/14	2026/7/13
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/6/3 ~ 2026/6/22

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2025/10/29	2026/10/28
EMI Test Receiver R&S	ESCS 30	100375	2026/5/20	2027/5/19
Fixed Attenuator STI	STI02-2200-10	005	2026/2/9	2027/2/8
LISN R&S	ESH3-Z5	835239/001	2026/3/30	2027/3/29
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2026/2/9	2027/2/8
Software BVADT	BVADT_Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Conduction 1(Hsinchu).
2. Tested Date: 2026/5/25

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2025/9/16	2026/9/15
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2026/3/15	2027/3/14
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Keysight	N9038A	MY59050100	2025/6/25	2026/6/24
Preamplifier EMCI	EMC330N	980538	2026/3/15	2027/3/14
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable PEWC	8D	966-5-1	2026/3/15	2027/3/14
		966-5-2	2026/3/15	2027/3/14
		966-5-3	2026/3/15	2027/3/14
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/5/18

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038A	MY59050100	2025/6/25	2026/6/24
Preamplifier EMCI	EMC12630SE	980509	2026/1/17	2027/1/16
	EMC184045SE	980387	2025/8/7	2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20 2026/5/25	2026/5/19 2027/5/24
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1500	180503	2026/3/7	2027/3/6
	EMC104-SM-SM-2000	180501	2026/3/7	2027/3/6
	EMC104-SM-SM-6000	180506	2026/3/7	2027/3/6
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/5/14 ~ 2026/5/26

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

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: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} 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.

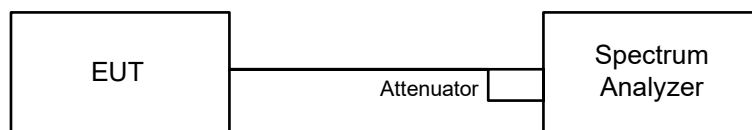
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

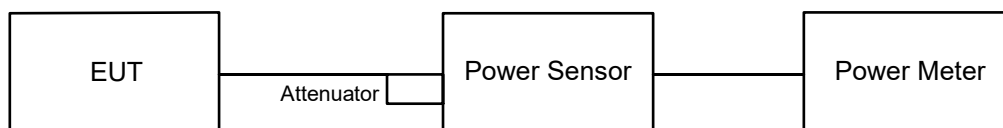


6.1.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% 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 instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.2 RF Output Power

6.2.1 Test Setup

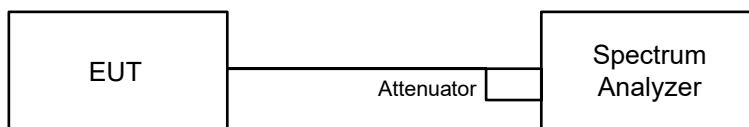


6.2.2 Test Procedure

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.

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 99% OBW 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

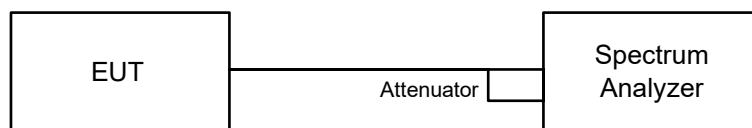
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW 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

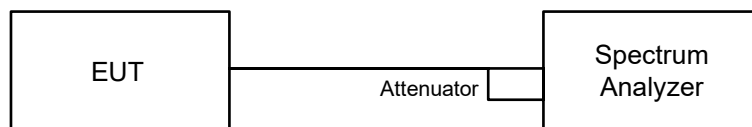


6.4.2 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) 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



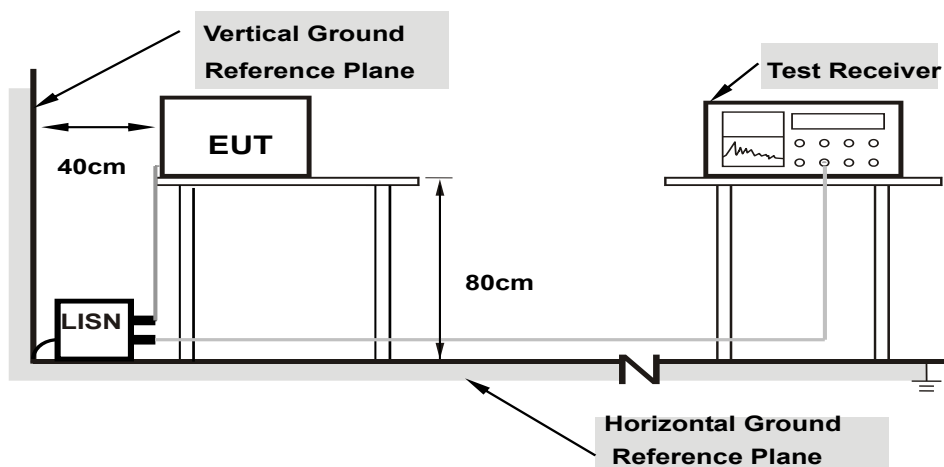
6.5.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

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

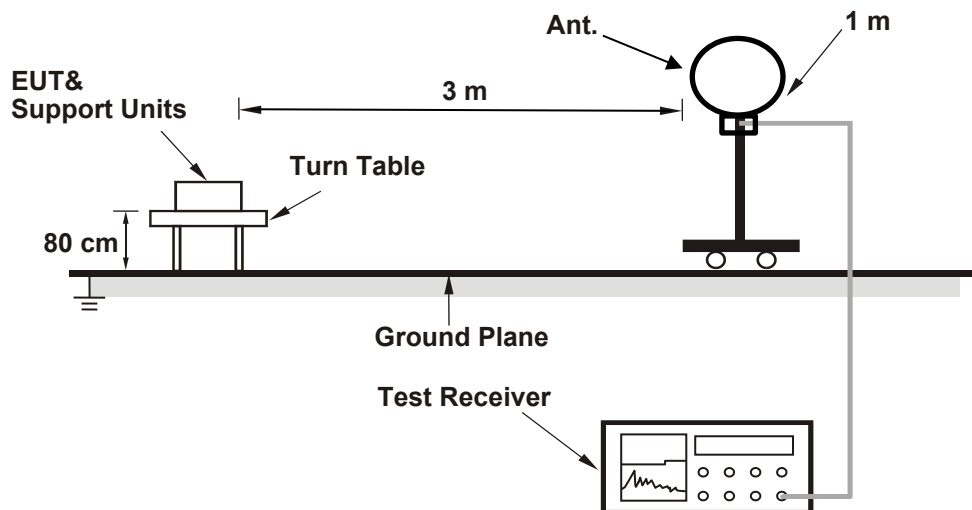
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

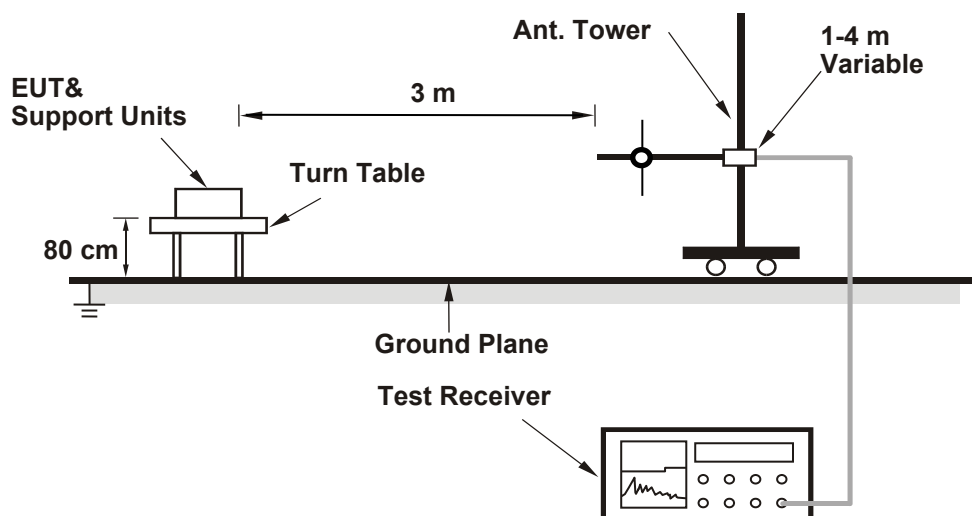
6.7 Unwanted Emissions below 1 GHz

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 (however, peak detector measurements may be used to determine compliance with QP requirements), 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

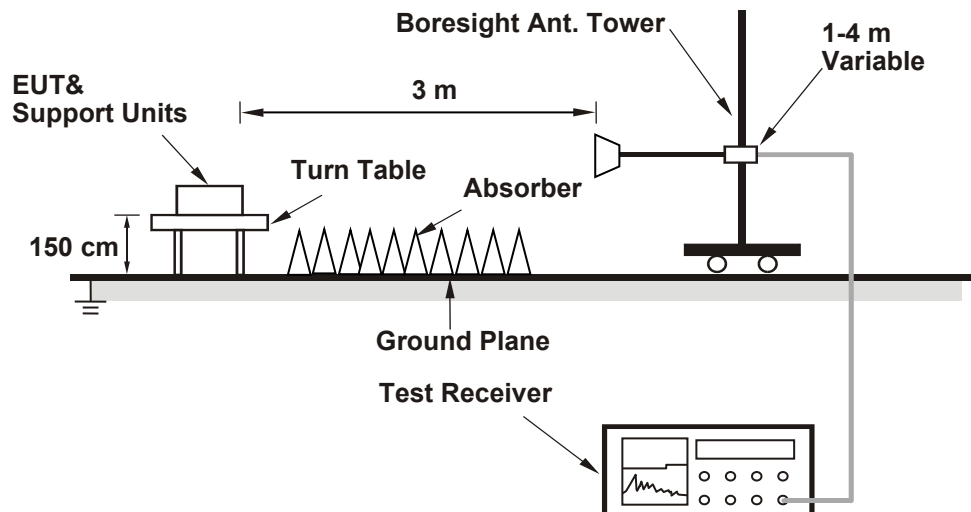
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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 (however, peak detector measurements may be used to determine compliance with QP requirements).
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:	7.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	46.46
60	5300	46.77
64	5320	46.36
100	5500	38.34
116	5580	33.63
140	5700	24.96

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	46.46	27.67	>	24
60	5300	46.77	27.69	>	24
64	5320	46.36	27.66	>	24
100	5500	38.34	26.83	>	24
116	5580	33.63	26.26	>	24
140	5700	24.96	24.97	>	24

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

802.11ac (VHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	50.05
60	5300	50.47
64	5320	50.3
100	5500	32.55
116	5580	35.78
140	5700	27.08

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	50.05	27.99	>	24
60	5300	50.47	28.03	>	24
64	5320	50.30	28.01	>	24
100	5500	32.55	26.12	>	24
116	5580	35.78	26.53	>	24
140	5700	27.08	25.32	>	24

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

802.11ac (VHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
54	5270	102.44
62	5310	102.81
102	5510	78.86
110	5550	85.55
134	5670	87.08

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	102.44	31.1	>	24
62	5310	102.81	31.12	>	24
102	5510	78.86	29.96	>	24
110	5550	85.55	30.32	>	24
134	5670	87.08	30.39	>	24

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

802.11ac (VHT80)

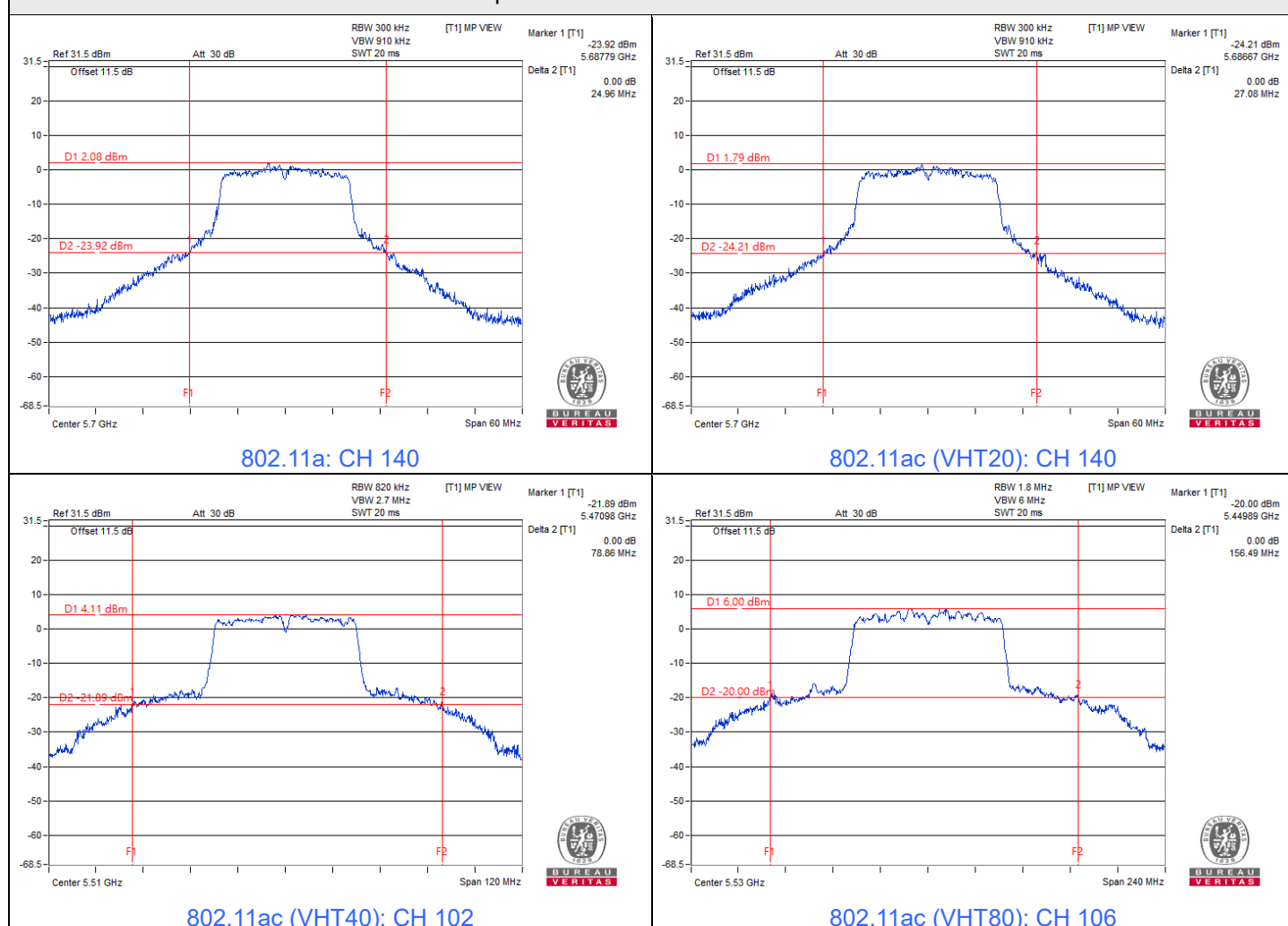
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
58	5290	208.45
106	5530	156.49

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	208.45	34.19	>	24
106	5530	156.49	32.94	>	24

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

Spectrum Plot of Minimum Value



7.2 RF Output Power

Input Power:	7.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	14.655	11.66	24	Pass
40	5200	14.488	11.61	24	Pass
48	5240	14.689	11.67	24	Pass
52	5260	13.772	11.39	24	Pass
60	5300	13.49	11.30	24	Pass
64	5320	13.868	11.42	24	Pass
100	5500	12.05	10.81	24	Pass
116	5580	12.677	11.03	24	Pass
140	5700	12.274	10.89	24	Pass
149	5745	10.209	10.09	30	Pass
157	5785	10.046	10.02	30	Pass
165	5825	10.162	10.07	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	14.791	11.70	24	Pass
40	5200	15.031	11.77	24	Pass
48	5240	15.101	11.79	24	Pass
52	5260	13.996	11.46	24	Pass
60	5300	14.223	11.53	24	Pass
64	5320	14.125	11.50	24	Pass
100	5500	14.555	11.63	24	Pass
116	5580	13.804	11.40	24	Pass
140	5700	13.646	11.35	24	Pass
149	5745	10.399	10.17	30	Pass
157	5785	10.328	10.14	30	Pass
165	5825	10.495	10.21	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	14.859	11.72	24	Pass
46	5230	14.825	11.71	24	Pass
54	5270	14.191	11.52	24	Pass
62	5310	14.421	11.59	24	Pass
102	5510	14.093	11.49	24	Pass
110	5550	14.655	11.66	24	Pass
134	5670	13.122	11.18	24	Pass
151	5755	10.28	10.12	30	Pass
159	5795	10.375	10.16	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	15.136	11.80	24	Pass
58	5290	14.689	11.67	24	Pass
106	5530	16.52	12.18	24	Pass
155	5775	10.617	10.26	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	7.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-1.59	11	Pass
40	5200	-1.95	11	Pass
48	5240	2.38	11	Pass
52	5260	-1.13	11	Pass
60	5300	-0.99	11	Pass
64	5320	-1.10	11	Pass
100	5500	0.36	11	Pass
116	5580	0.25	11	Pass
140	5700	-2.68	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-2.38	11	Pass
40	5200	-2.30	11	Pass
48	5240	1.93	11	Pass
52	5260	-1.71	11	Pass
60	5300	-1.54	11	Pass
64	5320	-1.40	11	Pass
100	5500	-1.84	11	Pass
116	5580	-0.21	11	Pass
140	5700	-3.14	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	-5.10	11	Pass
46	5230	-12.98	11	Pass
54	5270	-6.01	11	Pass
62	5310	-5.75	11	Pass
102	5510	-4.86	11	Pass
110	5550	-2.98	11	Pass
134	5670	-2.97	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-15.72	11	Pass
58	5290	-9.66	11	Pass
106	5530	-8.52	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-6.63	-4.41	30	Pass
157	5785	-7.51	-5.29	30	Pass
165	5825	-6.32	-4.10	30	Pass

Note: For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-7.09	-4.87	30	Pass
157	5785	-8	-5.78	30	Pass
165	5825	-9.14	-6.92	30	Pass

Note: For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

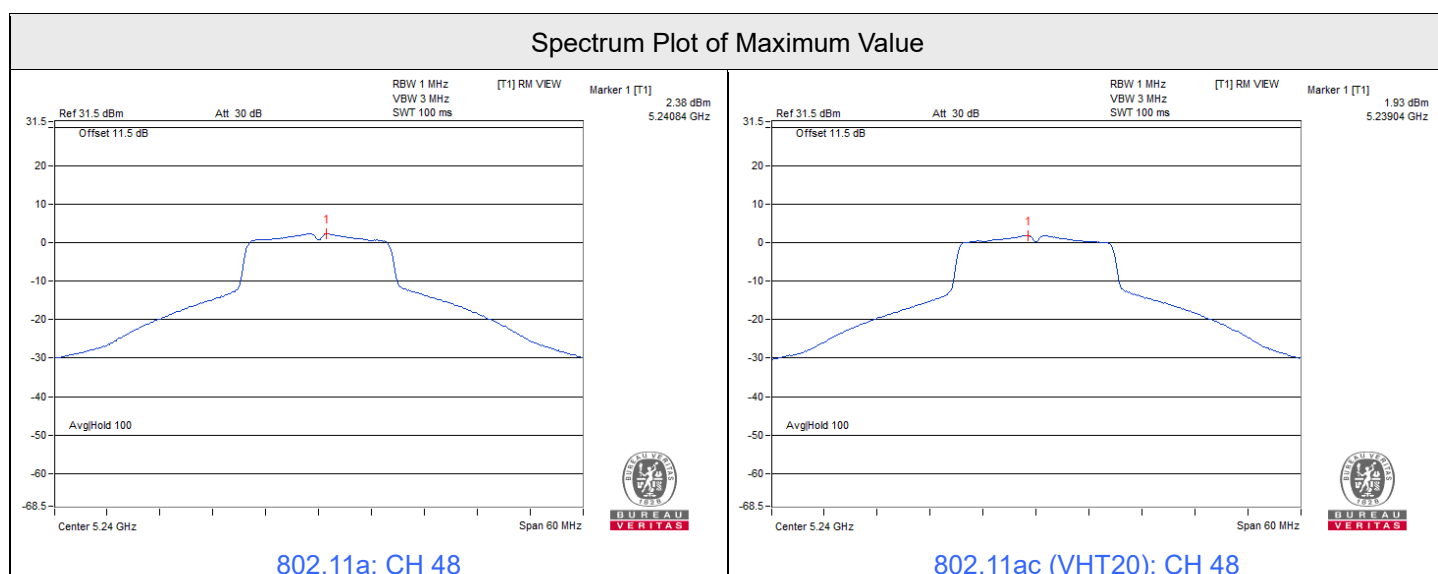
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
151	5755	-11.5	-9.28	30	Pass
159	5795	-11.35	-9.13	30	Pass

Note: For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

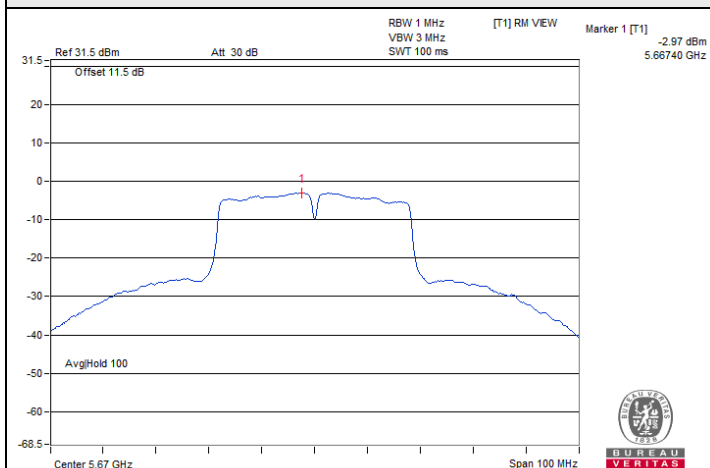
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
155	5775	-14.07	-11.85	30	Pass

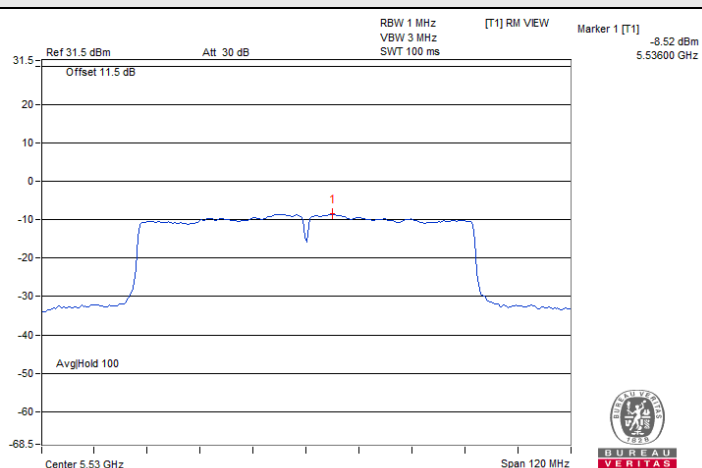
Note: For U-NII-3, the antenna gain is 2.4 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.



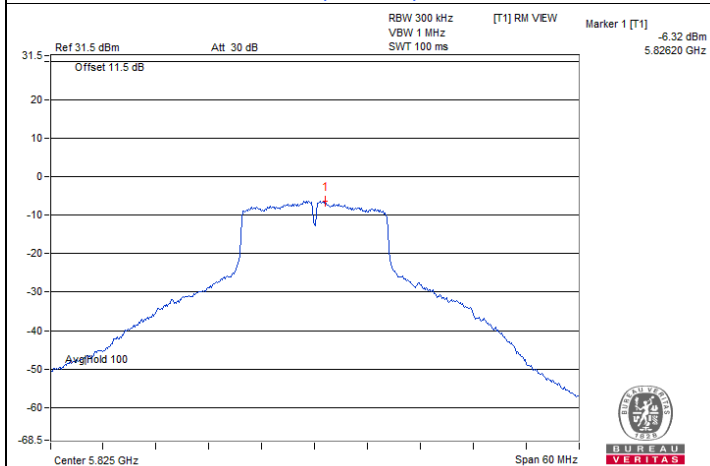
Spectrum Plot of Maximum Value



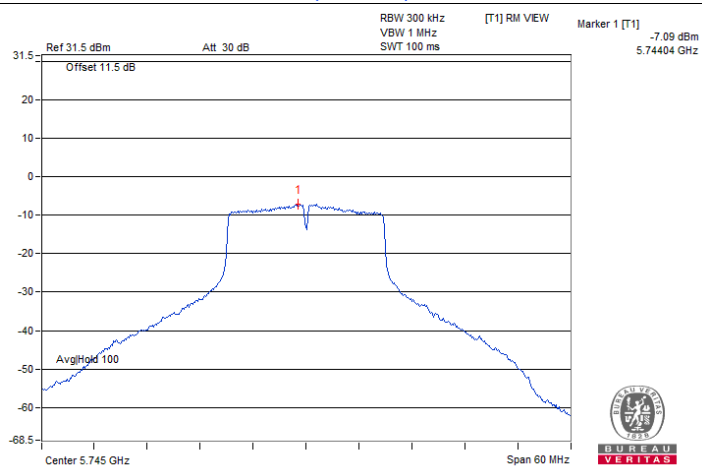
802.11ac (VHT40): CH 134



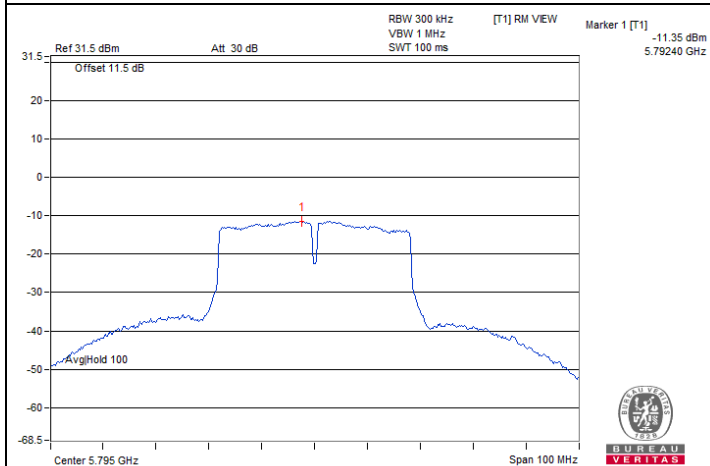
802.11ac (VHT80): CH 106



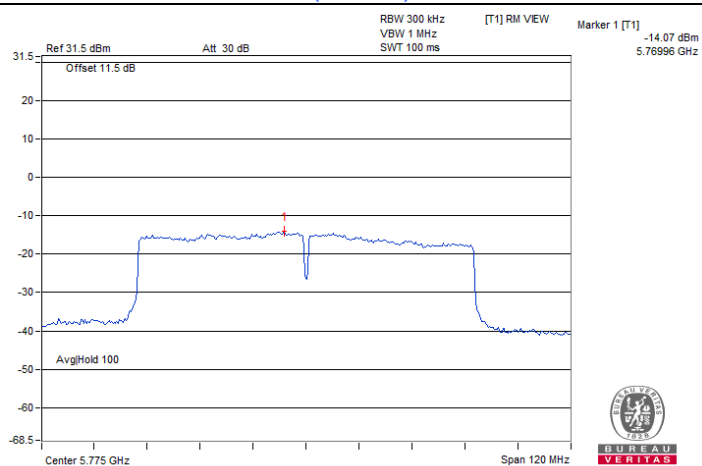
802.11a: CH 165



802.11ac (VHT20): CH 149



802.11ac (VHT40): CH 159



802.11ac (VHT80): CH 155

7.4 6 dB Bandwidth

Input Power:	7.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	16.04	0.5	Pass
157	5785	15.36	0.5	Pass
165	5825	15.35	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	15.97	0.5	Pass
157	5785	15.97	0.5	Pass
165	5825	16	0.5	Pass

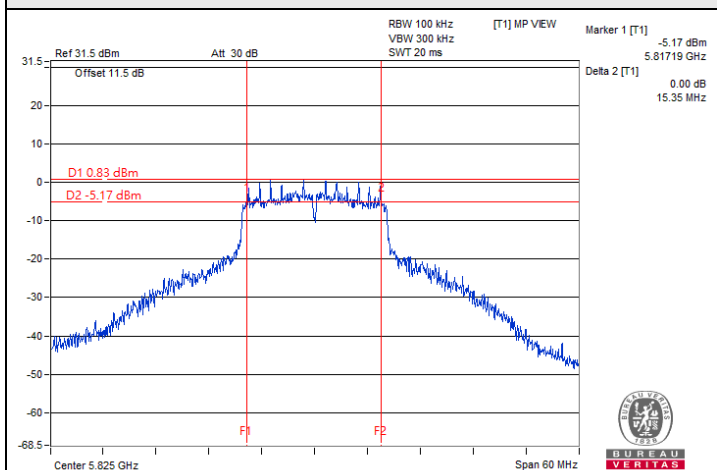
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
151	5755	35.35	0.5	Pass
159	5795	35.79	0.5	Pass

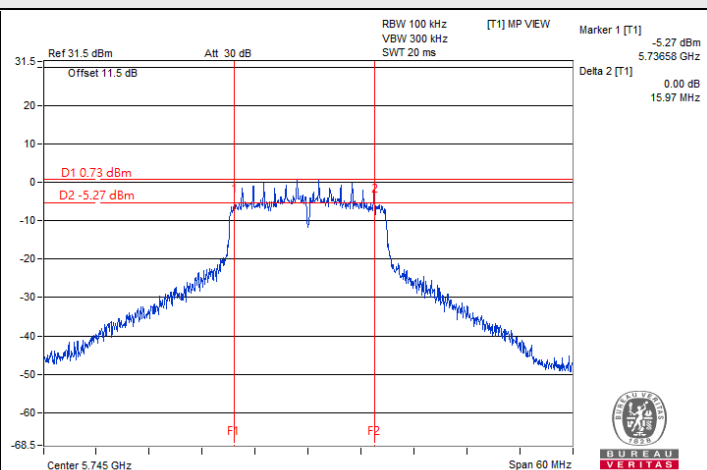
802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
155	5775	75.38	0.5	Pass

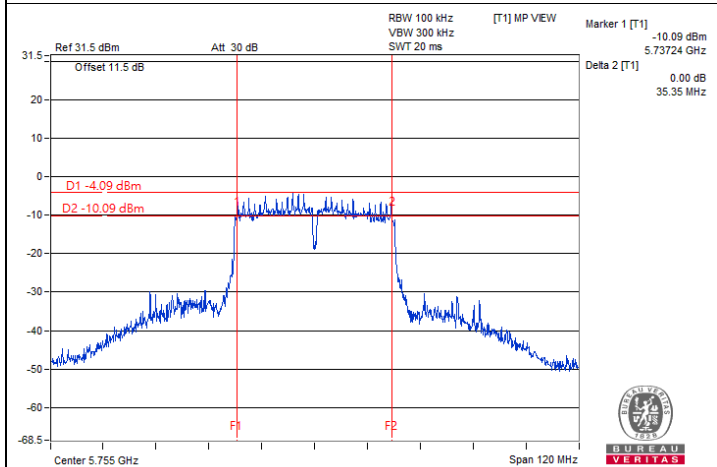
Spectrum Plot of Minimum Value



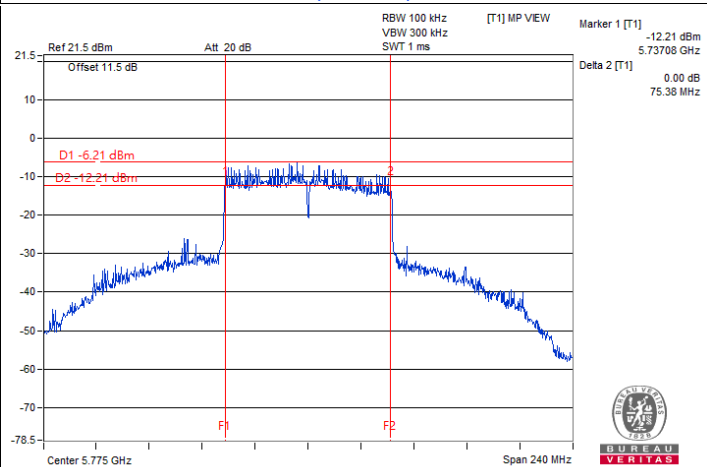
802.11a: CH 165



802.11ac (VHT20): CH 149



802.11ac (VHT40): CH 151



802.11ac (VHT80): CH 155

7.5 Occupied Bandwidth

Input Power:	7.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Louis Yang
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	29.64
40	5200	28.92
48	5240	17.28
52	5260	31.08
60	5300	30.72
64	5320	30.12
100	5500	24
116	5580	19.68
140	5700	16.86
149	5745	17.16
157	5785	17.16
165	5825	20.82

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	29.76
40	5200	30.66
48	5240	18.6
52	5260	32.28
60	5300	31.8
64	5320	32.4
100	5500	18.96
116	5580	19.68
140	5700	18.06
149	5745	18.3
157	5785	18.18
165	5825	18.18

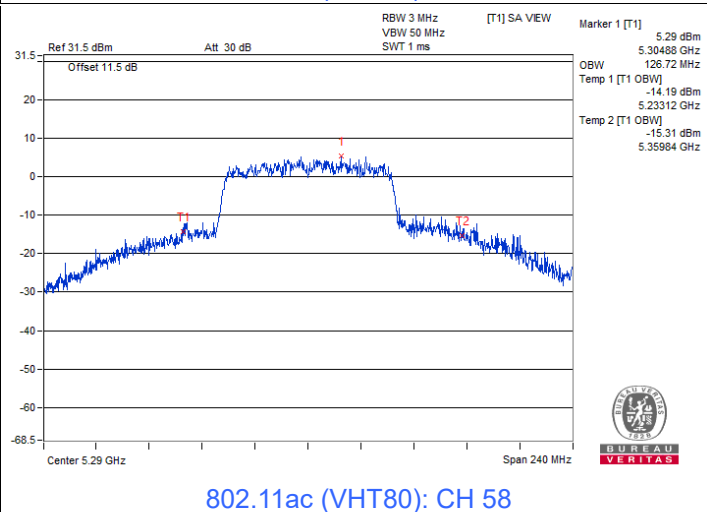
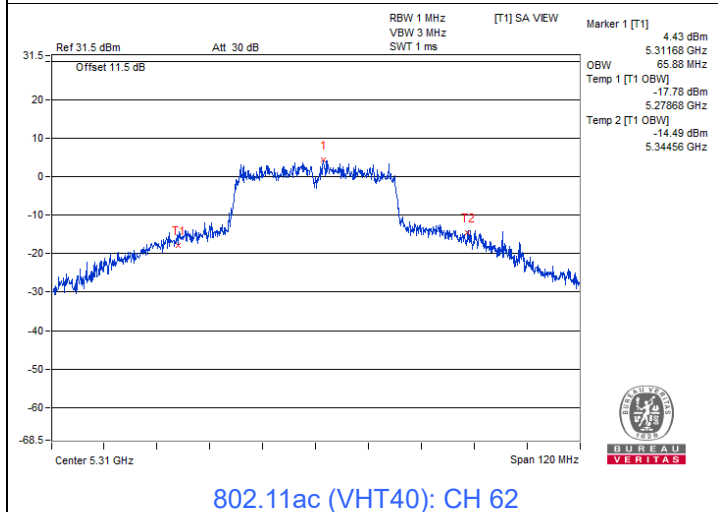
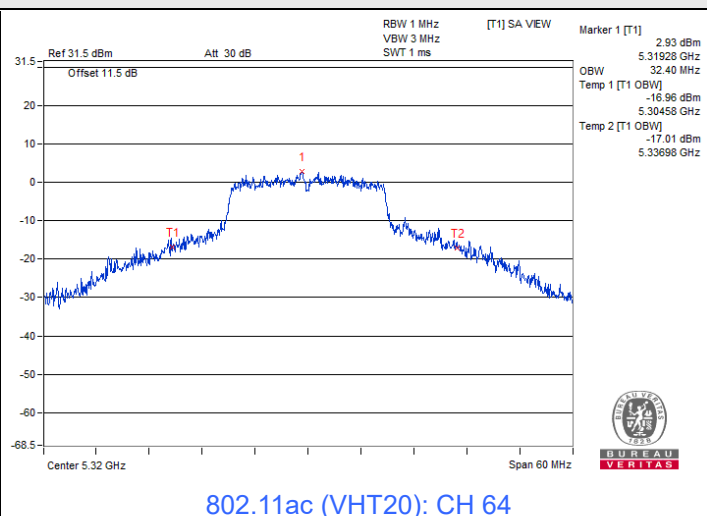
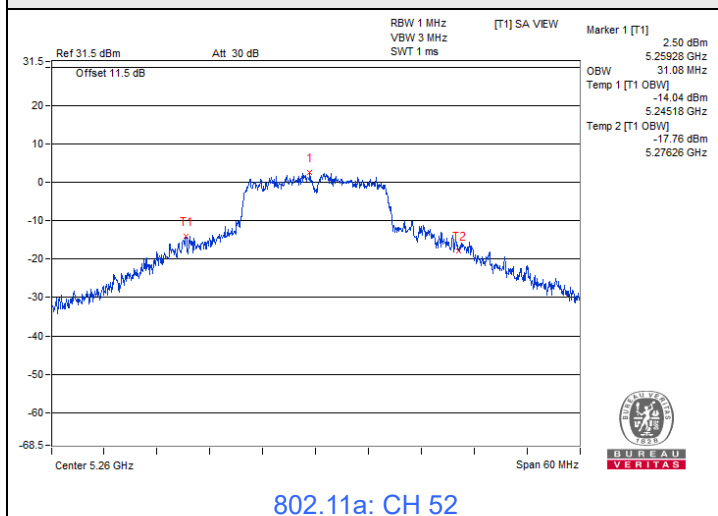
802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	58.32
46	5230	36.72
54	5270	65.64
62	5310	65.88
102	5510	37.44
110	5550	43.8
134	5670	38.04
151	5755	36.6
159	5795	36.84

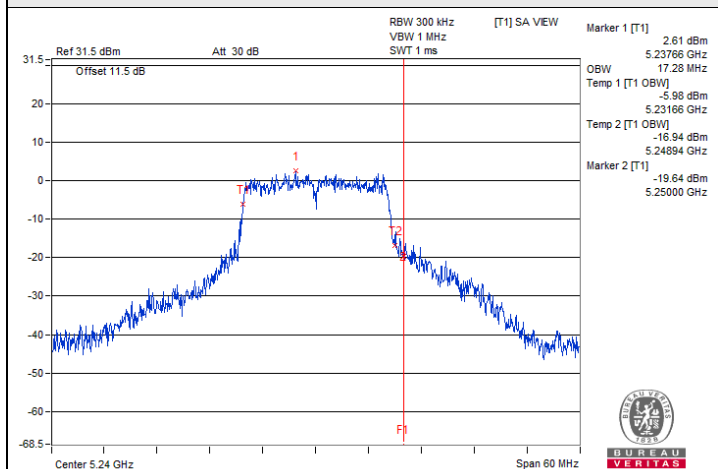
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	76.8
58	5290	126.72
106	5530	76.8
155	5775	77.04

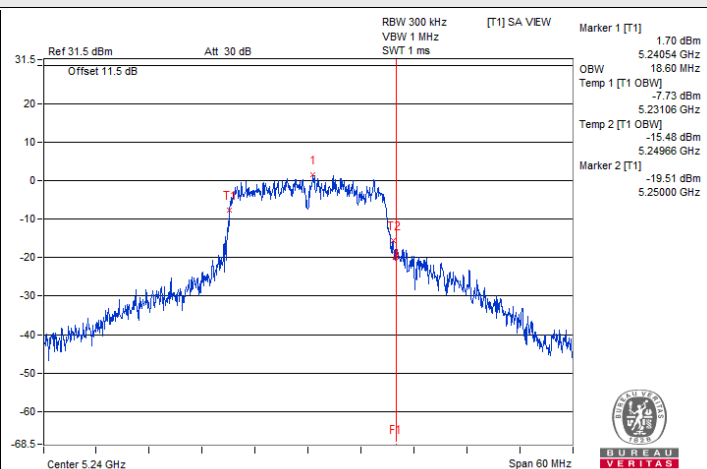
Spectrum Plot of Maximum Value



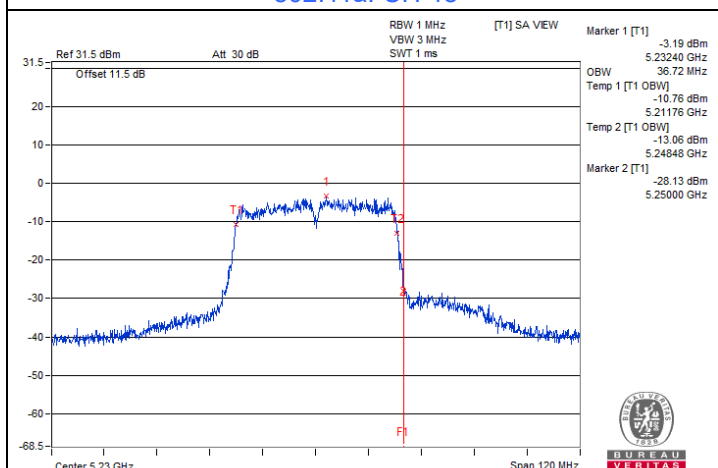
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



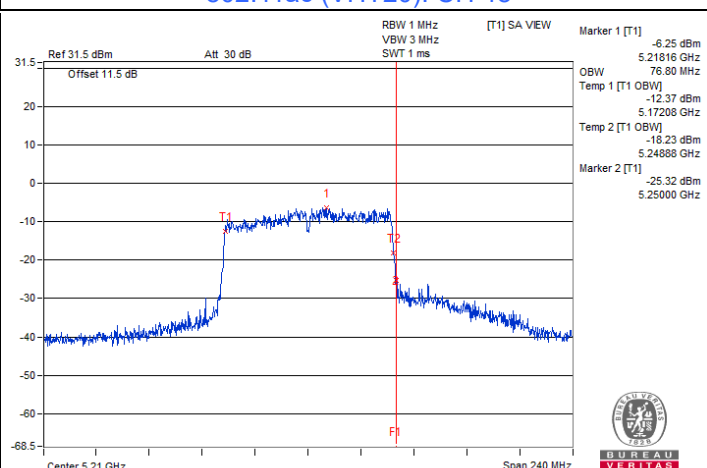
802.11a: CH 48



802.11ac (VHT20): CH 48



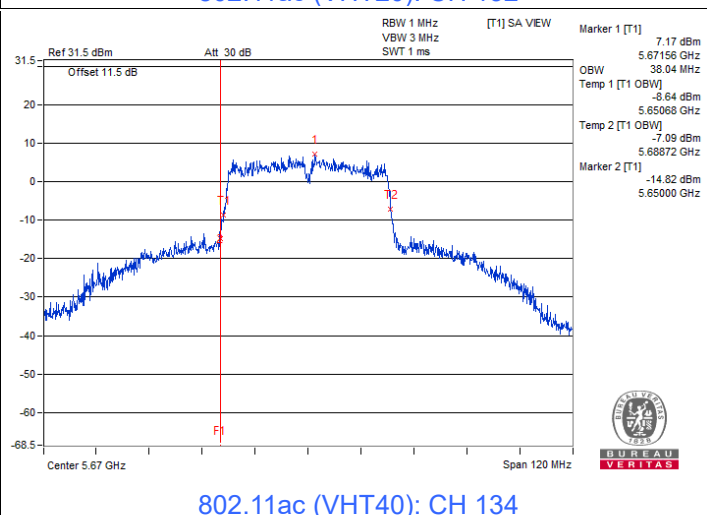
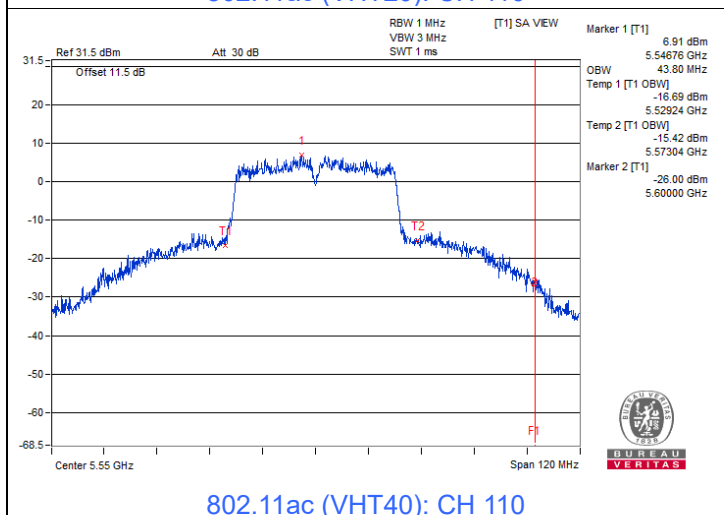
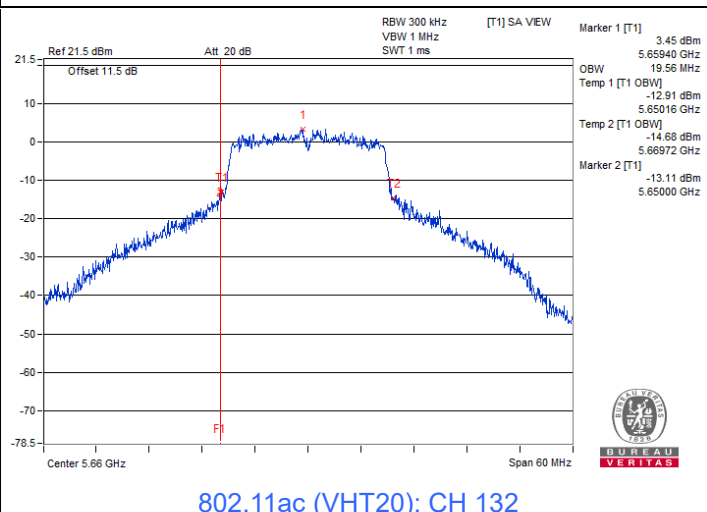
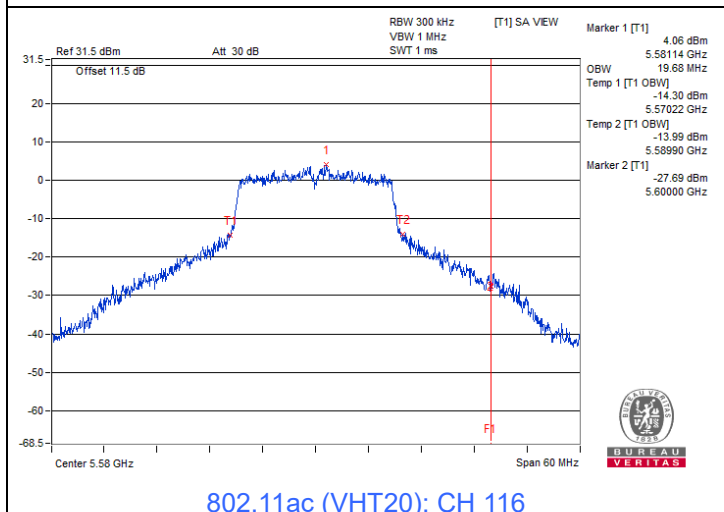
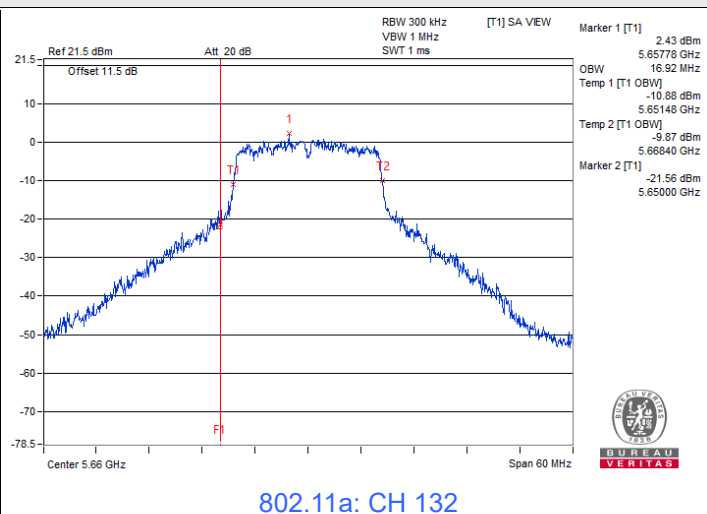
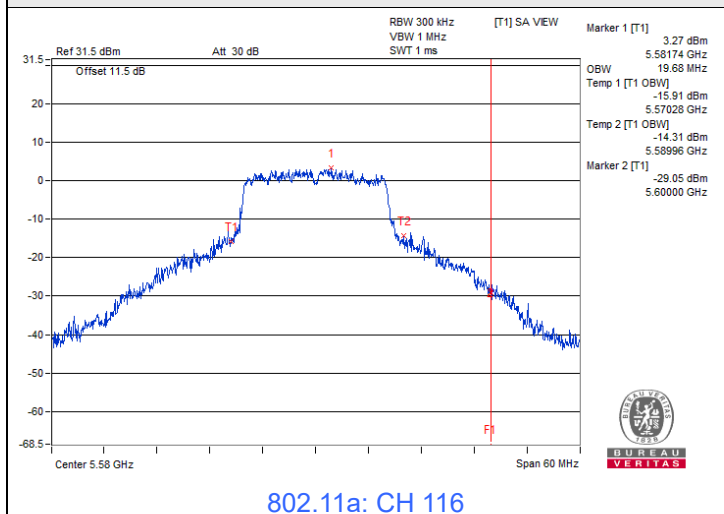
802.11ac (VHT40): CH 46



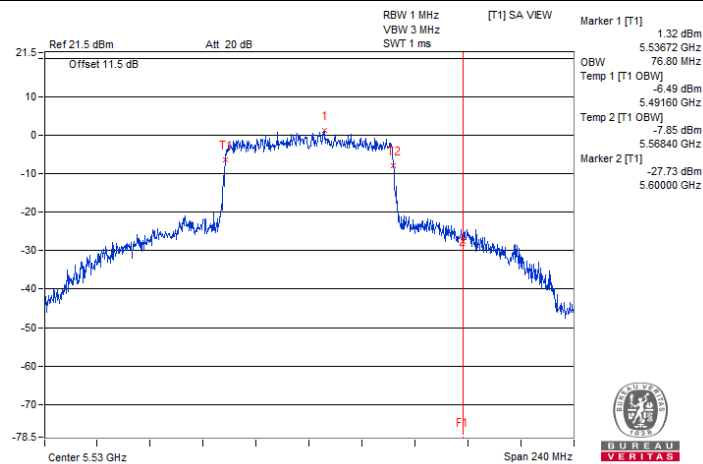
802.11ac (VHT80): CH 42

Verify that the 5600 - 5650 MHz band is notched

Test results demonstrating last channel shall not exceed the band edge on 5600 - 5650 MHz

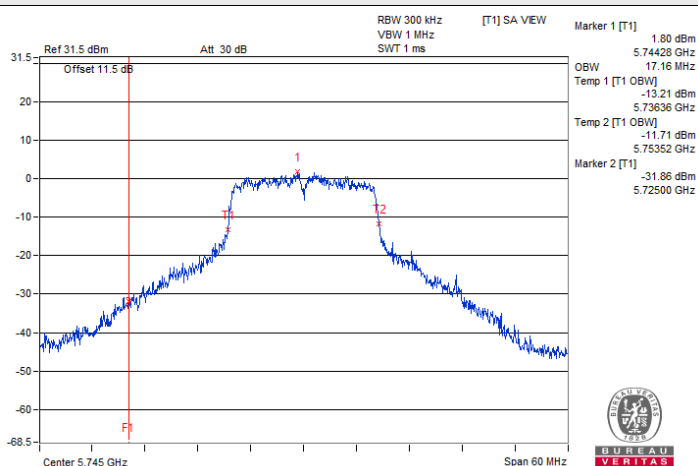


Verify that the 5600 - 5650 MHz band is notched
Test results demonstrating last channel shall not exceed the band edge on 5600 - 5650 MHz

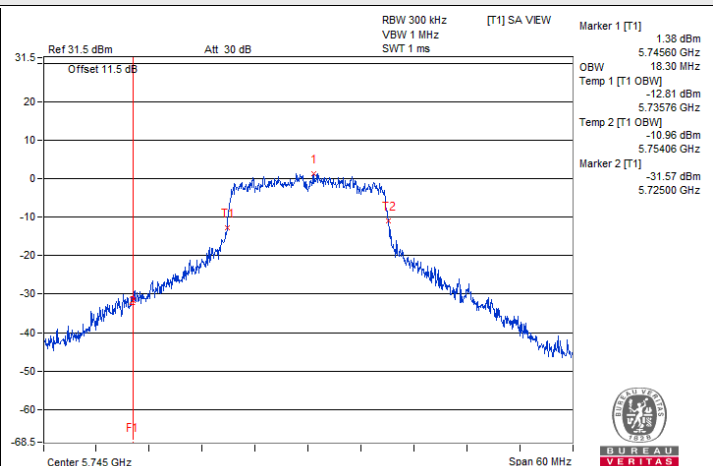


802.11ac (VHT80): CH 106

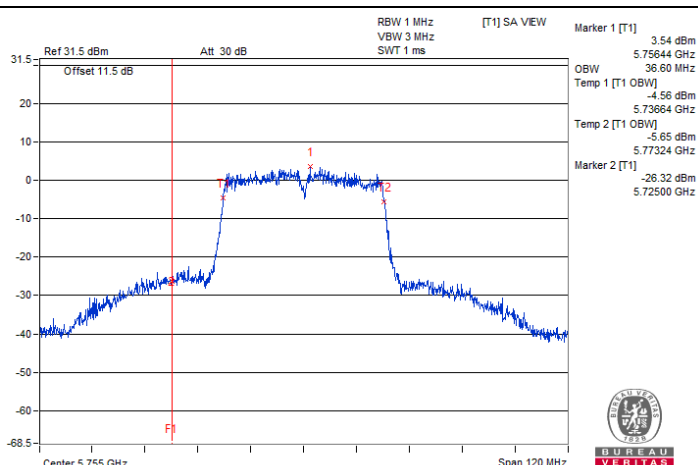
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



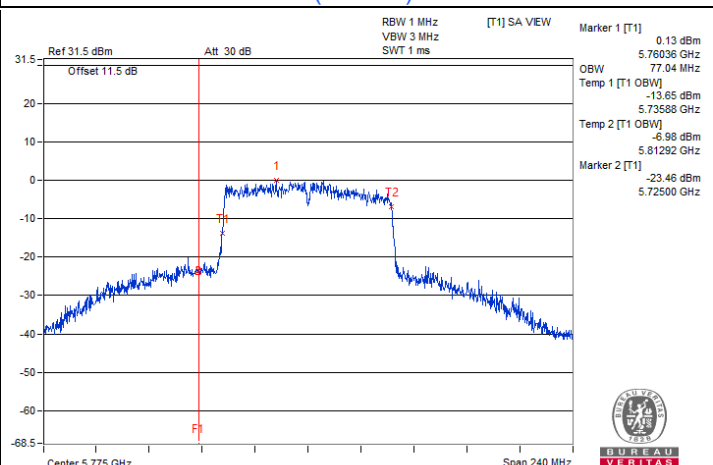
802.11a: CH 149



802.11ac (VHT20): CH 149



802.11ac (VHT40): CH 151



802.11ac (VHT80): CH 155

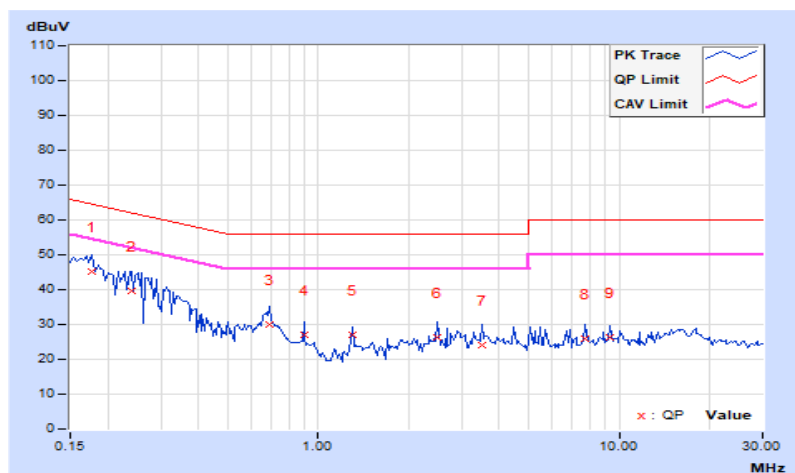
7.6 AC Power Conducted Emissions

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 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	27 °C, 47% RH
Tested By	Felix Chang		

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	0.17734	9.99	35.11	16.87	45.10	26.86	64.61	54.61	-19.51	-27.75
2	0.23984	10.02	29.72	14.40	39.74	24.42	62.10	52.10	-22.36	-27.68
3	0.69297	10.15	19.70	10.91	29.85	21.06	56.00	46.00	-26.15	-24.94
4	0.89609	10.20	17.00	4.13	27.20	14.33	56.00	46.00	-28.80	-31.67
5	1.29688	10.24	16.95	3.32	27.19	13.56	56.00	46.00	-28.81	-32.44
6	2.48828	10.34	15.92	5.74	26.26	16.08	56.00	46.00	-29.74	-29.92
7	3.48828	10.43	13.82	6.24	24.25	16.67	56.00	46.00	-31.75	-29.33
8	7.67578	10.76	15.32	1.83	26.08	12.59	60.00	50.00	-33.92	-37.41
9	9.26953	10.88	15.32	4.37	26.20	15.25	60.00	50.00	-33.80	-34.75

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

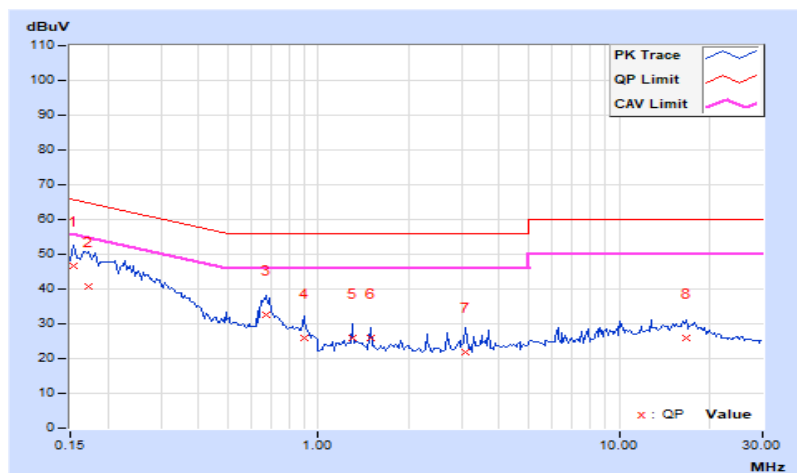


RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	27 °C, 47% RH
Tested By	Felix Chang		

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	0.15391	10.00	36.85	21.28	46.85	31.28	65.79	55.79	-18.94	-24.51
2	0.17344	10.00	30.57	20.45	40.57	30.45	64.79	54.79	-24.22	-24.34
3	0.67344	9.98	22.53	11.30	32.51	21.28	56.00	46.00	-23.49	-24.72
4	0.89609	10.00	15.97	4.87	25.97	14.87	56.00	46.00	-30.03	-31.13
5	1.29688	10.03	15.72	3.64	25.75	13.67	56.00	46.00	-30.25	-32.33
6	1.49609	10.05	15.82	0.08	25.87	10.13	56.00	46.00	-30.13	-35.87
7	3.08594	10.16	11.62	-1.26	21.78	8.90	56.00	46.00	-34.22	-37.10
8	16.66406	10.97	14.83	10.01	25.80	20.98	60.00	50.00	-34.20	-29.02

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



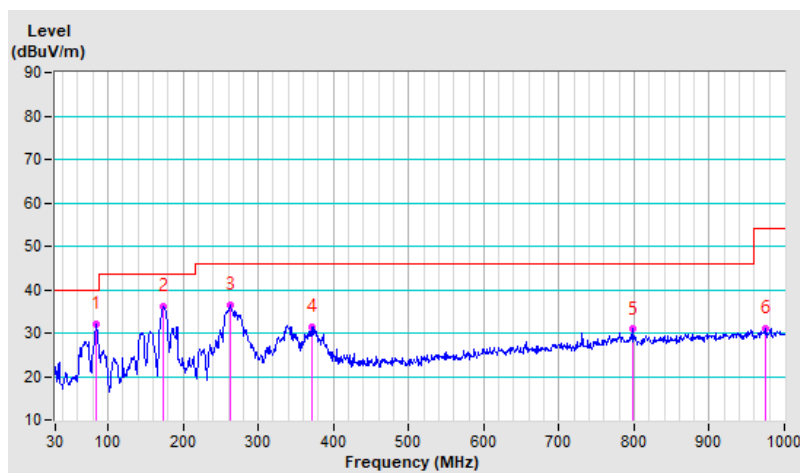
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix.Chang		

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	83.64	32.1 PK	40.0	-7.9	4.00 H	113	50.2	-18.1
2	173.97	36.1 PK	43.5	-7.4	1.50 H	170	49.6	-13.5
3	263.33	36.6 PK	46.0	-9.4	1.50 H	48	50.1	-13.5
4	371.73	31.3 PK	46.0	-14.7	1.00 H	39	41.7	-10.4
5	797.90	30.9 PK	46.0	-15.1	1.00 H	231	33.1	-2.2
6	974.85	31.1 PK	54.0	-22.9	1.50 H	280	31.1	0.0

Remarks:

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

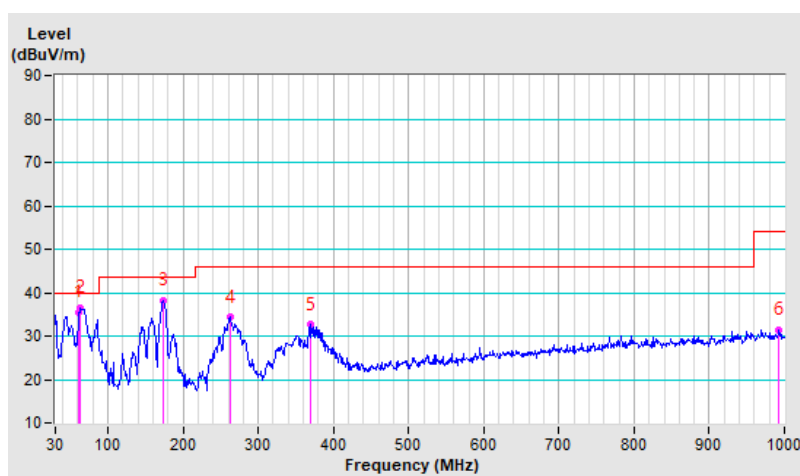


RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix.Chang		

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	61.94	35.4 PK	40.0	-4.6	3.00 V	1	48.9	-13.5
2	63.73	36.5 PK	40.0	-3.5	2.00 V	103	50.1	-13.6
3	172.91	38.1 PK	43.5	-5.4	1.00 V	41	51.5	-13.4
4	262.07	34.3 PK	46.0	-11.7	1.00 V	290	47.7	-13.4
5	369.04	32.6 PK	46.0	-13.4	3.00 V	1	43.1	-10.5
6	993.06	31.4 PK	54.0	-22.6	1.00 V	264	31.3	0.1

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 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	25 °C, 75% RH
Tested By	Felix Chang		

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	63.6 PK	74.0	-10.4	1.98 H	193	61.5	2.1
2	5150.00	52.2 AV	54.0	-1.8	1.98 H	193	50.1	2.1
3	*5180.00	105.7 PK			1.98 H	193	103.7	2.0
4	*5180.00	98.2 AV			1.98 H	193	96.2	2.0
5	#10360.00	47.3 PK	68.2	-20.9	1.35 H	325	35.8	11.5
6	15540.00	42.4 PK	74.0	-31.6	2.33 H	135	30.5	11.9
7	15540.00	30.0 AV	54.0	-24.0	2.33 H	135	18.1	11.9
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	60.9 PK	74.0	-13.1	2.20 V	191	58.8	2.1
2	5150.00	51.9 AV	54.0	-2.1	2.20 V	191	49.8	2.1
3	*5180.00	105.9 PK			2.20 V	191	103.9	2.0
4	*5180.00	98.9 AV			2.20 V	191	96.9	2.0
5	#10360.00	47.8 PK	68.2	-20.4	1.35 V	253	36.3	11.5
6	15540.00	42.5 PK	74.0	-31.5	1.32 V	260	30.6	11.9
7	15540.00	30.2 AV	54.0	-23.8	1.32 V	260	18.3	11.9

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 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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	106.5 PK			1.96 H	193	104.6	1.9
2	*5200.00	98.2 AV			1.96 H	193	96.3	1.9
3	#10400.00	47.3 PK	68.2	-20.9	1.32 H	56	35.6	11.7
4	15600.00	42.1 PK	74.0	-31.9	3.12 H	233	30.7	11.4
5	15600.00	30.2 AV	54.0	-23.8	3.12 H	233	18.8	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	106.8 PK			1.89 V	193	104.9	1.9
2	*5200.00	98.7 AV			1.89 V	193	96.8	1.9
3	#10400.00	47.6 PK	68.2	-20.6	2.19 V	233	35.9	11.7
4	15600.00	42.3 PK	74.0	-31.7	1.35 V	235	30.9	11.4
5	15600.00	30.3 AV	54.0	-23.7	1.35 V	235	18.9	11.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25 °C, 75% RH
Tested By	Felix Chang		

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	106.9 PK			1.93 H	195	105.3	1.6
2	*5240.00	99.3 AV			1.93 H	195	97.7	1.6
3	5350.00	49.3 PK	74.0	-24.7	1.93 H	195	47.6	1.7
4	5350.00	37.9 AV	54.0	-16.1	1.93 H	195	36.2	1.7
5	#10480.00	45.3 PK	68.2	-22.9	1.00 H	239	33.7	11.6
6	15720.00	42.1 PK	74.0	-31.9	3.25 H	132	29.7	12.4
7	15720.00	30.3 AV	54.0	-23.7	3.25 H	132	17.9	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.5 PK			2.14 V	193	105.9	1.6
2	*5240.00	100.3 AV			2.14 V	193	98.7	1.6
3	5350.00	50.0 PK	74.0	-24.0	2.14 V	193	48.3	1.7
4	5350.00	38.2 AV	54.0	-15.8	2.14 V	193	36.5	1.7
5	#10480.00	45.6 PK	68.2	-22.6	3.65 V	32	34.0	11.6
6	15720.00	42.2 PK	74.0	-31.8	3.14 V	231	29.8	12.4
7	15720.00	30.5 AV	54.0	-23.5	3.14 V	231	18.1	12.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.9 PK	74.0	-23.1	1.67 H	174	48.8	2.1
2	5150.00	39.0 AV	54.0	-15.0	1.67 H	174	36.9	2.1
3	*5260.00	105.7 PK			1.67 H	174	104.1	1.6
4	*5260.00	97.9 AV			1.67 H	174	96.3	1.6
5	#10520.00	45.3 PK	68.2	-22.9	3.23 H	56	33.6	11.7
6	15780.00	43.1 PK	74.0	-30.9	3.21 H	95	31.0	12.1
7	15780.00	30.5 AV	54.0	-23.5	3.21 H	95	18.4	12.1
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	51.3 PK	74.0	-22.7	2.10 V	192	49.2	2.1
2	5150.00	39.1 AV	54.0	-14.9	2.10 V	192	37.0	2.1
3	*5260.00	106.9 PK			2.10 V	192	105.3	1.6
4	*5260.00	99.3 AV			2.10 V	192	97.7	1.6
5	#10520.00	46.5 PK	68.2	-21.7	3.69 V	43	34.8	11.7
6	15780.00	43.3 PK	74.0	-30.7	3.09 V	218	31.2	12.1
7	15780.00	30.7 AV	54.0	-23.3	3.09 V	218	18.6	12.1

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25 °C, 75% RH
Tested By	Felix Chang		

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	105.2 PK			2.43 H	177	103.4	1.8
2	*5300.00	98.4 AV			2.43 H	177	96.6	1.8
3	5350.00	58.5 PK	74.0	-15.5	2.43 H	177	56.8	1.7
4	5350.00	46.2 AV	54.0	-7.8	2.43 H	177	44.5	1.7
5	10600.00	46.3 PK	74.0	-27.7	3.28 H	47	34.4	11.9
6	10600.00	36.8 AV	54.0	-17.2	3.28 H	47	24.9	11.9
7	15900.00	42.8 PK	74.0	-31.2	3.23 H	101	30.8	12.0
8	15900.00	30.7 AV	54.0	-23.3	3.23 H	101	18.7	12.0
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	106.1 PK			2.25 V	191	104.3	1.8
2	*5300.00	99.1 AV			2.25 V	191	97.3	1.8
3	5350.00	59.0 PK	74.0	-15.0	2.25 V	191	57.3	1.7
4	5350.00	47.8 AV	54.0	-6.2	2.25 V	191	46.1	1.7
5	10600.00	46.4 PK	74.0	-27.6	3.72 V	41	34.5	11.9
6	10600.00	35.7 AV	54.0	-18.3	3.72 V	41	23.8	11.9
7	15900.00	43.4 PK	74.0	-30.6	3.14 V	221	31.4	12.0
8	15900.00	30.3 AV	54.0	-23.7	3.14 V	221	18.3	12.0

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	25 °C, 75% RH
Tested By	Felix Chang		

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	103.4 PK			2.56 H	178	101.7	1.7
2	*5320.00	95.4 AV			2.56 H	178	93.7	1.7
3	5350.00	64.4 PK	74.0	-9.6	2.56 H	178	62.7	1.7
4	5350.00	52.7 AV	54.0	-1.3	2.56 H	178	51.0	1.7
5	10640.00	46.0 PK	74.0	-28.0	3.18 H	42	33.8	12.2
6	10640.00	35.1 AV	54.0	-18.9	3.18 H	42	22.9	12.2
7	15960.00	42.7 PK	74.0	-31.3	3.21 H	103	30.4	12.3
8	15960.00	30.9 AV	54.0	-23.1	3.21 H	103	18.6	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	*5320.00	104.2 PK			1.79 V	188	102.5	1.7
2	*5320.00	96.4 AV			1.79 V	188	94.7	1.7
3	5350.00	64.5 PK	74.0	-9.5	1.79 V	188	62.8	1.7
4	5350.00	53.6 AV	54.0	-0.4	1.79 V	188	51.9	1.7
5	10640.00	46.3 PK	74.0	-27.7	3.71 V	54	34.1	12.2
6	10640.00	36.2 AV	54.0	-17.8	3.71 V	54	24.0	12.2
7	15960.00	43.2 PK	74.0	-30.8	3.06 V	215	30.9	12.3
8	15960.00	31.0 AV	54.0	-23.0	3.06 V	215	18.7	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	802.11a	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	25 °C, 75% RH
Tested By	Felix Chang		

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	53.1 PK	74.0	-20.9	2.19 H	141	51.1	2.0
2	5460.00	43.5 AV	54.0	-10.5	2.19 H	141	41.5	2.0
3	#5470.00	65.1 PK	68.2	-3.1	2.19 H	141	63.0	2.1
4	*5500.00	102.9 PK			2.19 H	141	100.7	2.2
5	*5500.00	95.3 AV			2.19 H	141	93.1	2.2
6	11000.00	46.6 PK	74.0	-27.4	3.23 H	63	34.6	12.0
7	11000.00	35.5 AV	54.0	-18.5	3.23 H	63	23.5	12.0
8	#16500.00	42.9 PK	68.2	-25.3	3.27 H	106	28.9	14.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.9 PK	74.0	-17.1	1.66 V	258	54.9	2.0
2	5460.00	45.7 AV	54.0	-8.3	1.66 V	258	43.7	2.0
3	#5470.00	67.5 PK	68.2	-0.7	1.66 V	258	65.4	2.1
4	*5500.00	104.3 PK			1.66 V	258	102.1	2.2
5	*5500.00	97.5 AV			1.66 V	258	95.3	2.2
6	11000.00	46.9 PK	74.0	-27.1	3.69 V	63	34.9	12.0
7	11000.00	34.5 AV	54.0	-19.5	3.69 V	63	22.5	12.0
8	#16500.00	43.3 PK	68.2	-24.9	3.09 V	222	29.3	14.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
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	25 °C, 75% RH
Tested By	Felix Chang		

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	102.1 PK			1.48 H	177	100.4	1.7
2	*5580.00	94.0 AV			1.48 H	177	92.3	1.7
3	11160.00	43.5 PK	74.0	-30.5	3.70 H	36	31.1	12.4
4	11160.00	34.1 AV	54.0	-19.9	3.70 H	36	21.7	12.4
5	#16740.00	41.9 PK	68.2	-26.3	3.08 H	233	26.2	15.7
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	*5580.00	104.4 PK			1.92 V	260	102.7	1.7
2	*5580.00	96.7 AV			1.92 V	260	95.0	1.7
3	11160.00	43.7 PK	74.0	-30.3	3.71 V	50	31.3	12.4
4	11160.00	34.1 AV	54.0	-19.9	3.71 V	50	21.7	12.4
5	#16740.00	41.8 PK	68.2	-26.4	3.06 V	207	26.1	15.7

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.9 PK			1.78 H	124	101.5	1.4
2	*5700.00	95.4 AV			1.78 H	124	94.0	1.4
3	#5725.00	62.3 PK	68.2	-5.9	1.78 H	124	60.8	1.5
4	11400.00	44.1 PK	74.0	-29.9	3.65 H	37	31.8	12.3
5	11400.00	34.5 AV	54.0	-19.5	3.65 H	37	22.2	12.3
6	#17100.00	42.0 PK	68.2	-26.2	3.12 H	228	25.5	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	104.2 PK			1.84 V	259	102.8	1.4
2	*5700.00	96.6 AV			1.84 V	259	95.2	1.4
3	#5725.00	65.4 PK	68.2	-2.8	1.84 V	259	63.9	1.5
4	11400.00	44.2 PK	74.0	-29.8	3.67 V	79	31.9	12.3
5	11400.00	34.2 AV	54.0	-19.8	3.67 V	79	21.9	12.3
6	#17100.00	42.3 PK	68.2	-25.9	3.13 V	222	25.8	16.5

Remarks:

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

RF Mode	802.11a	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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5550.45	48.9 PK	68.2	-19.3	1.87 H	260	47.1	1.8
2	*5745.00	101.2 PK			1.87 H	260	99.6	1.6
3	*5745.00	93.7 AV			1.87 H	260	92.1	1.6
4	#5967.05	48.6 PK	68.2	-19.6	1.87 H	260	46.3	2.3
5	11490.00	43.6 PK	74.0	-30.4	3.70 H	27	31.3	12.3
6	11490.00	34.5 AV	54.0	-19.5	3.70 H	27	22.2	12.3
7	#17235.00	42.1 PK	68.2	-26.1	3.09 H	221	24.9	17.2
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	#5605.75	50.6 PK	68.2	-17.6	1.98 V	197	49.0	1.6
2	*5745.00	102.4 PK			1.98 V	197	100.8	1.6
3	*5745.00	95.3 AV			1.98 V	197	93.7	1.6
4	#5951.21	49.7 PK	68.2	-18.5	1.98 V	197	47.5	2.2
5	11490.00	43.9 PK	74.0	-30.1	3.66 V	57	31.6	12.3
6	11490.00	34.1 AV	54.0	-19.9	3.66 V	57	21.8	12.3
7	#17235.00	42.2 PK	68.2	-26.0	3.13 V	209	25.0	17.2

Remarks:

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

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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5578.88	48.0 PK	68.2	-20.2	1.00 H	120	46.3	1.7
2	*5785.00	101.5 PK			1.00 H	120	99.6	1.9
3	*5785.00	93.3 AV			1.00 H	120	91.4	1.9
4	#6017.79	47.9 PK	68.2	-20.3	1.00 H	120	45.6	2.3
5	11570.00	43.5 PK	74.0	-30.5	3.68 H	38	31.2	12.3
6	11570.00	33.4 AV	54.0	-20.6	3.68 H	38	21.1	12.3
7	#17355.00	41.5 PK	68.2	-26.7	3.13 H	227	23.2	18.3
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	#5609.32	49.7 PK	68.2	-18.5	1.65 V	197	48.1	1.6
2	*5785.00	101.9 PK			1.65 V	197	100.0	1.9
3	*5785.00	93.9 AV			1.65 V	197	92.0	1.9
4	#5979.44	50.9 PK	68.2	-17.3	1.65 V	197	48.6	2.3
5	11570.00	43.8 PK	74.0	-30.2	3.70 V	42	31.5	12.3
6	11570.00	33.9 AV	54.0	-20.1	3.70 V	42	21.6	12.3
7	#17355.00	41.8 PK	68.2	-26.4	3.13 V	197	23.5	18.3

Remarks:

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

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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5550.76	48.8 PK	68.2	-19.4	1.70 H	123	47.0	1.8
2	*5825.00	99.3 PK			1.70 H	123	97.3	2.0
3	*5825.00	93.7 AV			1.70 H	123	91.7	2.0
4	#6014.44	48.1 PK	68.2	-20.1	1.70 H	123	45.8	2.3
5	11650.00	43.2 PK	74.0	-30.8	3.66 H	49	31.0	12.2
6	11650.00	33.6 AV	54.0	-20.4	3.66 H	49	21.4	12.2
7	#17475.00	41.2 PK	68.2	-27.0	3.19 H	215	21.5	19.7
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	#5569.42	50.3 PK	68.2	-17.9	1.79 V	196	48.5	1.8
2	*5825.00	102.9 PK			1.79 V	196	100.9	2.0
3	*5825.00	96.1 AV			1.79 V	196	94.1	2.0
4	#5942.90	50.6 PK	68.2	-17.6	1.79 V	196	48.4	2.2
5	11650.00	44.0 PK	74.0	-30.0	3.64 V	52	31.8	12.2
6	11650.00	34.3 AV	54.0	-19.7	3.64 V	52	22.1	12.2
7	#17475.00	41.7 PK	68.2	-26.5	3.10 V	197	22.0	19.7

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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.70 H	191	58.7	2.1
2	5150.00	52.4 AV	54.0	-1.6	1.70 H	191	50.3	2.1
3	*5180.00	106.2 PK			1.70 H	191	104.2	2.0
4	*5180.00	98.4 AV			1.70 H	191	96.4	2.0
5	#10360.00	45.2 PK	68.2	-23.0	1.32 H	325	33.7	11.5
6	15540.00	42.2 PK	74.0	-31.8	2.55 H	321	30.3	11.9
7	15540.00	30.1 AV	54.0	-23.9	2.55 H	321	18.2	11.9
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	62.9 PK	74.0	-11.1	1.84 V	75	60.8	2.1
2	5150.00	51.0 AV	54.0	-3.0	1.84 V	75	48.9	2.1
3	*5180.00	104.7 PK			1.84 V	75	102.7	2.0
4	*5180.00	96.3 AV			1.84 V	75	94.3	2.0
5	#10360.00	46.0 PK	68.2	-22.2	3.21 V	125	34.5	11.5
6	15540.00	42.0 PK	74.0	-32.0	1.00 V	235	30.1	11.9
7	15540.00	30.3 AV	54.0	-23.7	1.00 V	235	18.4	11.9

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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	107.9 PK			1.70 H	194	106.0	1.9
2	*5200.00	99.7 AV			1.70 H	194	97.8	1.9
3	#10400.00	45.0 PK	68.2	-23.2	1.34 H	325	33.3	11.7
4	15600.00	41.8 PK	74.0	-32.2	2.57 H	314	30.4	11.4
5	15600.00	29.6 AV	54.0	-24.4	2.57 H	314	18.2	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.7 PK			2.12 V	55	103.8	1.9
2	*5200.00	97.2 AV			2.12 V	55	95.3	1.9
3	#10400.00	45.8 PK	68.2	-22.4	3.22 V	124	34.1	11.7
4	15600.00	41.3 PK	74.0	-32.7	1.00 V	231	29.9	11.4
5	15600.00	29.9 AV	54.0	-24.1	1.00 V	231	18.5	11.4

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	107.1 PK			1.79 H	188	105.5	1.6
2	*5240.00	99.8 AV			1.79 H	188	98.2	1.6
3	5350.00	51.0 PK	74.0	-23.0	1.79 H	188	49.3	1.7
4	5350.00	38.3 AV	54.0	-15.7	1.79 H	188	36.6	1.7
5	#10480.00	45.3 PK	68.2	-22.9	1.34 H	309	33.7	11.6
6	15720.00	42.6 PK	74.0	-31.4	2.58 H	327	30.2	12.4
7	15720.00	30.5 AV	54.0	-23.5	2.58 H	327	18.1	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	104.8 PK			1.64 V	310	103.2	1.6
2	*5240.00	97.0 AV			1.64 V	310	95.4	1.6
3	5350.00	49.2 PK	74.0	-24.8	1.64 V	310	47.5	1.7
4	5350.00	37.8 AV	54.0	-16.2	1.64 V	310	36.1	1.7
5	#10480.00	46.4 PK	68.2	-21.8	3.21 V	110	34.8	11.6
6	15720.00	42.3 PK	74.0	-31.7	1.00 V	232	29.9	12.4
7	15720.00	30.5 AV	54.0	-23.5	1.00 V	232	18.1	12.4

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	51.7 PK	74.0	-22.3	1.87 H	194	49.6	2.1
2	5150.00	39.3 AV	54.0	-14.7	1.87 H	194	37.2	2.1
3	*5260.00	107.2 PK			1.87 H	194	105.6	1.6
4	*5260.00	98.9 AV			1.87 H	194	97.3	1.6
5	#10520.00	45.6 PK	68.2	-22.6	1.38 H	310	33.9	11.7
6	15780.00	42.0 PK	74.0	-32.0	2.51 H	327	29.9	12.1
7	15780.00	29.8 AV	54.0	-24.2	2.51 H	327	17.7	12.1
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	51.0 PK	74.0	-23.0	2.48 V	187	48.9	2.1
2	5150.00	38.8 AV	54.0	-15.2	2.48 V	187	36.7	2.1
3	*5260.00	106.1 PK			2.48 V	187	104.5	1.6
4	*5260.00	97.9 AV			2.48 V	187	96.3	1.6
5	#10520.00	45.6 PK	68.2	-22.6	3.25 V	110	33.9	11.7
6	15780.00	42.6 PK	74.0	-31.4	1.00 V	231	30.5	12.1
7	15780.00	30.7 AV	54.0	-23.3	1.00 V	231	18.6	12.1

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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	106.8 PK			1.87 H	191	105.0	1.8
2	*5300.00	99.5 AV			1.87 H	191	97.7	1.8
3	5350.00	62.1 PK	74.0	-11.9	1.87 H	191	60.4	1.7
4	5350.00	49.6 AV	54.0	-4.4	1.87 H	191	47.9	1.7
5	10600.00	45.9 PK	74.0	-28.1	1.34 H	334	34.0	11.9
6	10600.00	35.1 AV	54.0	-18.9	1.34 H	334	23.2	11.9
7	15900.00	42.5 PK	74.0	-31.5	2.51 H	319	30.5	12.0
8	15900.00	30.2 AV	54.0	-23.8	2.51 H	319	18.2	12.0
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	105.4 PK			2.04 V	20	103.6	1.8
2	*5300.00	96.9 AV			2.04 V	20	95.1	1.8
3	5350.00	59.5 PK	74.0	-14.5	2.04 V	20	57.8	1.7
4	5350.00	45.6 AV	54.0	-8.4	2.04 V	20	43.9	1.7
5	10600.00	45.8 PK	74.0	-28.2	3.19 V	131	33.9	11.9
6	10600.00	34.9 AV	54.0	-19.1	3.19 V	131	23.0	11.9
7	15900.00	42.2 PK	74.0	-31.8	1.00 V	231	30.2	12.0
8	15900.00	30.6 AV	54.0	-23.4	1.00 V	231	18.6	12.0

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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	103.8 PK			1.85 H	192	102.1	1.7
2	*5320.00	97.0 AV			1.85 H	192	95.3	1.7
3	5350.00	65.1 PK	74.0	-8.9	1.85 H	192	63.4	1.7
4	5350.00	53.7 AV	54.0	-0.3	1.85 H	192	52.0	1.7
5	10640.00	44.5 PK	74.0	-29.5	1.26 H	315	32.3	12.2
6	10640.00	34.2 AV	54.0	-19.8	1.26 H	315	22.0	12.2
7	15960.00	41.9 PK	74.0	-32.1	2.60 H	308	29.6	12.3
8	15960.00	30.0 AV	54.0	-24.0	2.60 H	308	17.7	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	*5320.00	103.5 PK			1.94 V	62	101.8	1.7
2	*5320.00	95.4 AV			1.94 V	62	93.7	1.7
3	5350.00	64.3 PK	74.0	-9.7	1.94 V	62	62.6	1.7
4	5350.00	53.3 AV	54.0	-0.7	1.94 V	62	51.6	1.7
5	10640.00	46.2 PK	74.0	-27.8	3.21 V	122	34.0	12.2
6	10640.00	35.0 AV	54.0	-19.0	3.21 V	122	22.8	12.2
7	15960.00	42.2 PK	74.0	-31.8	1.00 V	224	29.9	12.3
8	15960.00	30.8 AV	54.0	-23.2	1.00 V	224	18.5	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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	54.9 PK	74.0	-19.1	1.34 H	189	52.9	2.0
2	5460.00	43.8 AV	54.0	-10.2	1.34 H	189	41.8	2.0
3	#5470.00	65.9 PK	68.2	-2.3	1.34 H	189	63.8	2.1
4	*5500.00	102.8 PK			1.34 H	189	100.6	2.2
5	*5500.00	95.7 AV			1.34 H	189	93.5	2.2
6	11000.00	44.7 PK	74.0	-29.3	1.31 H	311	32.7	12.0
7	11000.00	34.5 AV	54.0	-19.5	1.31 H	311	22.5	12.0
8	#16500.00	42.3 PK	68.2	-25.9	2.51 H	328	28.3	14.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	1.93 V	48	55.4	2.0
2	5460.00	46.1 AV	54.0	-7.9	1.93 V	48	44.1	2.0
3	#5470.00	67.8 PK	68.2	-0.4	1.93 V	48	65.7	2.1
4	*5500.00	104.8 PK			1.93 V	48	102.6	2.2
5	*5500.00	97.2 AV			1.93 V	48	95.0	2.2
6	11000.00	46.0 PK	74.0	-28.0	3.23 V	123	34.0	12.0
7	11000.00	34.9 AV	54.0	-19.1	3.23 V	123	22.9	12.0
8	#16500.00	41.6 PK	68.2	-26.6	1.00 V	250	27.6	14.0

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	103.1 PK			1.63 H	149	101.4	1.7
2	*5580.00	94.5 AV			1.63 H	149	92.8	1.7
3	11160.00	45.3 PK	74.0	-28.7	1.28 H	340	32.9	12.4
4	11160.00	34.7 AV	54.0	-19.3	1.28 H	340	22.3	12.4
5	#16740.00	41.6 PK	68.2	-26.6	2.51 H	332	25.9	15.7
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	*5580.00	103.5 PK			2.00 V	43	101.8	1.7
2	*5580.00	95.0 AV			2.00 V	43	93.3	1.7
3	11160.00	45.9 PK	74.0	-28.1	3.18 V	138	33.5	12.4
4	11160.00	35.0 AV	54.0	-19.0	3.18 V	138	22.6	12.4
5	#16740.00	42.4 PK	68.2	-25.8	1.00 V	250	26.7	15.7

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	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	99.9 PK			1.81 H	141	98.5	1.4
2	*5700.00	92.9 AV			1.81 H	141	91.5	1.4
3	#5725.00	60.0 PK	68.2	-8.2	1.81 H	141	58.5	1.5
4	11400.00	45.6 PK	74.0	-28.4	1.29 H	334	33.3	12.3
5	11400.00	34.8 AV	54.0	-19.2	1.29 H	334	22.5	12.3
6	#17100.00	41.8 PK	68.2	-26.4	2.49 H	331	25.3	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.7 PK			1.93 V	45	101.3	1.4
2	*5700.00	94.3 AV			1.93 V	45	92.9	1.4
3	#5725.00	59.0 PK	68.2	-9.2	1.93 V	45	57.5	1.5
4	11400.00	46.1 PK	74.0	-27.9	3.17 V	130	33.8	12.3
5	11400.00	35.1 AV	54.0	-18.9	3.17 V	130	22.8	12.3
6	#17100.00	41.8 PK	68.2	-26.4	1.00 V	224	25.3	16.5

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5589.53	50.4 PK	68.2	-17.8	1.76 H	142	48.7	1.7
2	*5745.00	101.7 PK			1.76 H	142	100.1	1.6
3	*5745.00	93.4 AV			1.76 H	142	91.8	1.6
4	#5948.94	49.9 PK	68.2	-18.3	1.76 H	142	47.7	2.2
5	11490.00	45.2 PK	74.0	-28.8	1.34 H	318	32.9	12.3
6	11490.00	34.9 AV	54.0	-19.1	1.34 H	318	22.6	12.3
7	#17235.00	41.7 PK	68.2	-26.5	2.55 H	310	24.5	17.2
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	#5576.46	49.8 PK	68.2	-18.4	2.01 V	45	48.1	1.7
2	*5745.00	102.8 PK			2.01 V	45	101.2	1.6
3	*5745.00	94.9 AV			2.01 V	45	93.3	1.6
4	#5951.59	48.9 PK	68.2	-19.3	2.01 V	45	46.7	2.2
5	11490.00	45.9 PK	74.0	-28.1	3.25 V	122	33.6	12.3
6	11490.00	35.2 AV	54.0	-18.8	3.25 V	122	22.9	12.3
7	#17235.00	41.4 PK	68.2	-26.8	1.00 V	230	24.2	17.2

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.48	50.6 PK	68.2	-17.6	1.83 H	138	48.9	1.7
2	*5785.00	101.9 PK			1.83 H	138	100.0	1.9
3	*5785.00	93.4 AV			1.83 H	138	91.5	1.9
4	#5965.66	50.5 PK	68.2	-17.7	1.83 H	138	48.2	2.3
5	11570.00	45.8 PK	74.0	-28.2	1.31 H	322	33.5	12.3
6	11570.00	35.1 AV	54.0	-18.9	1.31 H	322	22.8	12.3
7	#17355.00	42.0 PK	68.2	-26.2	2.59 H	331	23.7	18.3
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	#5588.43	51.3 PK	68.2	-16.9	1.88 V	50	49.6	1.7
2	*5785.00	103.0 PK			1.88 V	50	101.1	1.9
3	*5785.00	94.1 AV			1.88 V	50	92.2	1.9
4	#5941.70	52.7 PK	68.2	-15.5	1.88 V	50	50.6	2.1
5	11570.00	46.8 PK	74.0	-27.2	3.26 V	128	34.5	12.3
6	11570.00	35.4 AV	54.0	-18.6	3.26 V	128	23.1	12.3
7	#17355.00	42.4 PK	68.2	-25.8	1.00 V	228	24.1	18.3

Remarks:

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

RF Mode	802.11ac (VHT20)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5632.82	49.9 PK	68.2	-18.3	1.74 H	132	48.2	1.7
2	*5825.00	100.7 PK			1.74 H	132	98.7	2.0
3	*5825.00	93.1 AV			1.74 H	132	91.1	2.0
4	#5999.01	49.9 PK	68.2	-18.3	1.74 H	132	47.5	2.4
5	11650.00	45.5 PK	74.0	-28.5	1.37 H	311	33.3	12.2
6	11650.00	35.1 AV	54.0	-18.9	1.37 H	311	22.9	12.2
7	#17475.00	41.9 PK	68.2	-26.3	2.59 H	337	22.2	19.7
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	#5614.75	51.3 PK	68.2	-16.9	2.06 V	62	49.6	1.7
2	*5825.00	102.5 PK			2.06 V	62	100.5	2.0
3	*5825.00	94.0 AV			2.06 V	62	92.0	2.0
4	#5955.29	51.5 PK	68.2	-16.7	2.06 V	62	49.2	2.3
5	11650.00	45.9 PK	74.0	-28.1	3.20 V	133	33.7	12.2
6	11650.00	35.2 AV	54.0	-18.8	3.20 V	133	23.0	12.2
7	#17475.00	42.5 PK	68.2	-25.7	1.00 V	232	22.8	19.7

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	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	63.3 PK	74.0	-10.7	1.80 H	192	61.2	2.1
2	5150.00	52.5 AV	54.0	-1.5	1.80 H	192	50.4	2.1
3	*5190.00	100.4 PK			1.80 H	192	98.5	1.9
4	*5190.00	91.9 AV			1.80 H	192	90.0	1.9
5	#10380.00	45.8 PK	68.2	-22.4	1.32 H	235	34.2	11.6
6	15570.00	41.4 PK	74.0	-32.6	3.33 H	157	29.7	11.7
7	15570.00	29.1 AV	54.0	-24.9	3.33 H	157	17.4	11.7
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	5150.00	60.1 PK	74.0	-13.9	1.92 V	59	58.0	2.1
2	5150.00	50.4 AV	54.0	-3.6	1.92 V	59	48.3	2.1
3	*5190.00	98.7 PK			1.92 V	59	96.8	1.9
4	*5190.00	90.1 AV			1.92 V	59	88.2	1.9
5	#10380.00	46.9 PK	68.2	-21.3	1.32 V	233	35.3	11.6
6	15570.00	41.6 PK	74.0	-32.4	1.57 V	321	29.9	11.7
7	15570.00	30.7 AV	54.0	-23.3	1.57 V	321	19.0	11.7

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	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	102.0 PK			1.67 H	175	100.3	1.7
2	*5230.00	94.5 AV			1.67 H	175	92.8	1.7
3	5350.00	50.2 PK	74.0	-23.8	1.67 H	175	48.5	1.7
4	5350.00	38.9 AV	54.0	-15.1	1.67 H	175	37.2	1.7
5	#10460.00	45.8 PK	68.2	-22.4	1.29 H	244	34.0	11.8
6	15690.00	41.5 PK	74.0	-32.5	3.27 H	152	29.1	12.4
7	15690.00	29.3 AV	54.0	-24.7	3.27 H	152	16.9	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	101.6 PK			3.76 V	117	99.9	1.7
2	*5230.00	92.4 AV			3.76 V	117	90.7	1.7
3	5350.00	51.1 PK	74.0	-22.9	3.76 V	117	49.4	1.7
4	5350.00	39.0 AV	54.0	-15.0	3.76 V	117	37.3	1.7
5	#10460.00	47.4 PK	68.2	-20.8	1.35 V	224	35.6	11.8
6	15690.00	42.0 PK	74.0	-32.0	1.58 V	322	29.6	12.4
7	15690.00	31.1 AV	54.0	-22.9	1.58 V	322	18.7	12.4

Remarks:

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

RF Mode	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	51.0 PK	74.0	-23.0	1.80 H	188	48.9	2.1
2	5150.00	39.2 AV	54.0	-14.8	1.80 H	188	37.1	2.1
3	*5270.00	100.8 PK			1.80 H	188	99.2	1.6
4	*5270.00	92.3 AV			1.80 H	188	90.7	1.6
5	#10540.00	46.2 PK	68.2	-22.0	1.34 H	241	34.4	11.8
6	15810.00	41.4 PK	74.0	-32.6	3.32 H	157	29.5	11.9
7	15810.00	29.2 AV	54.0	-24.8	3.32 H	157	17.3	11.9
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	51.7 PK	74.0	-22.3	2.04 V	102	49.6	2.1
2	5150.00	39.5 AV	54.0	-14.5	2.04 V	102	37.4	2.1
3	*5270.00	101.8 PK			2.04 V	102	100.2	1.6
4	*5270.00	92.7 AV			2.04 V	102	91.1	1.6
5	#10540.00	46.8 PK	68.2	-21.4	1.27 V	245	35.0	11.8
6	15810.00	41.3 PK	74.0	-32.7	1.60 V	317	29.4	11.9
7	15810.00	30.4 AV	54.0	-23.6	1.60 V	317	18.5	11.9

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	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	97.1 PK			1.93 H	302	95.4	1.7
2	*5310.00	88.9 AV			1.93 H	302	87.2	1.7
3	5350.00	60.4 PK	74.0	-13.6	1.93 H	302	58.7	1.7
4	5350.00	50.3 AV	54.0	-3.7	1.93 H	302	48.6	1.7
5	10620.00	45.5 PK	74.0	-28.5	1.34 H	249	33.5	12.0
6	10620.00	34.9 AV	54.0	-19.1	1.34 H	249	22.9	12.0
7	15930.00	40.8 PK	74.0	-33.2	3.37 H	156	28.6	12.2
8	15930.00	28.6 AV	54.0	-25.4	3.37 H	156	16.4	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	*5310.00	94.0 PK			1.91 V	115	92.3	1.7
2	*5310.00	85.9 AV			1.91 V	115	84.2	1.7
3	5350.00	57.4 PK	74.0	-16.6	1.91 V	115	55.7	1.7
4	5350.00	47.1 AV	54.0	-6.9	1.91 V	115	45.4	1.7
5	10620.00	47.0 PK	74.0	-27.0	1.35 V	227	35.0	12.0
6	10620.00	35.1 AV	54.0	-18.9	1.35 V	227	23.1	12.0
7	15930.00	41.5 PK	74.0	-32.5	1.59 V	309	29.3	12.2
8	15930.00	30.6 AV	54.0	-23.4	1.59 V	309	18.4	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.

RF Mode	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	57.3 PK	74.0	-16.7	1.73 H	192	55.3	2.0
2	5460.00	46.6 AV	54.0	-7.4	1.73 H	192	44.6	2.0
3	#5470.00	66.9 PK	68.2	-1.3	1.73 H	192	64.8	2.1
4	*5510.00	95.9 PK			1.73 H	192	93.8	2.1
5	*5510.00	88.9 AV			1.73 H	192	86.8	2.1
6	11020.00	45.5 PK	74.0	-28.5	1.32 H	223	33.4	12.1
7	11020.00	34.5 AV	54.0	-19.5	1.32 H	223	22.4	12.1
8	#16530.00	41.2 PK	68.2	-27.0	3.34 H	161	26.8	14.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	1.79 V	73	53.3	2.0
2	5460.00	45.6 AV	54.0	-8.4	1.79 V	73	43.6	2.0
3	#5470.00	66.1 PK	68.2	-2.1	1.79 V	73	64.0	2.1
4	*5510.00	98.1 PK			1.79 V	73	96.0	2.1
5	*5510.00	89.6 AV			1.79 V	73	87.5	2.1
6	11020.00	47.2 PK	74.0	-26.8	1.32 V	225	35.1	12.1
7	11020.00	35.2 AV	54.0	-18.8	1.32 V	225	23.1	12.1
8	#16530.00	41.7 PK	68.2	-26.5	1.55 V	312	27.3	14.4

Remarks:

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

RF Mode	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	98.5 PK			1.77 H	151	96.7	1.8
2	*5550.00	90.0 AV			1.77 H	151	88.2	1.8
3	11100.00	46.0 PK	74.0	-28.0	1.28 H	240	33.5	12.5
4	11100.00	35.3 AV	54.0	-18.7	1.28 H	240	22.8	12.5
5	#16650.00	41.7 PK	68.2	-26.5	3.31 H	162	26.3	15.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	99.8 PK			1.86 V	72	98.0	1.8
2	*5550.00	91.3 AV			1.86 V	72	89.5	1.8
3	11100.00	46.9 PK	74.0	-27.1	1.29 V	223	34.4	12.5
4	11100.00	34.8 AV	54.0	-19.2	1.29 V	223	22.3	12.5
5	#16650.00	41.9 PK	68.2	-26.3	1.62 V	324	26.5	15.4

Remarks:

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

RF Mode	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	97.6 PK			1.84 H	141	96.0	1.6
2	*5670.00	90.4 AV			1.84 H	141	88.8	1.6
3	#5725.00	54.3 PK	68.2	-13.9	1.84 H	141	52.8	1.5
4	11340.00	45.6 PK	74.0	-28.4	1.32 H	229	33.6	12.0
5	11340.00	34.5 AV	54.0	-19.5	1.32 H	229	22.5	12.0
6	#17010.00	41.7 PK	68.2	-26.5	3.31 H	165	25.6	16.1
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	*5670.00	100.4 PK			2.17 V	59	98.8	1.6
2	*5670.00	92.1 AV			2.17 V	59	90.5	1.6
3	#5725.00	59.2 PK	68.2	-9.0	2.17 V	59	57.7	1.5
4	11340.00	46.3 PK	74.0	-27.7	1.30 V	218	34.3	12.0
5	11340.00	34.7 AV	54.0	-19.3	1.30 V	218	22.7	12.0
6	#17010.00	42.0 PK	68.2	-26.2	1.56 V	323	25.9	16.1

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	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5635.19	49.1 PK	68.2	-19.1	1.62 H	142	47.4	1.7
2	*5755.00	98.6 PK			1.62 H	142	96.9	1.7
3	*5755.00	89.6 AV			1.62 H	142	87.9	1.7
4	#6011.75	49.7 PK	68.2	-18.5	1.62 H	142	47.3	2.4
5	11510.00	45.4 PK	74.0	-28.6	1.33 H	249	33.0	12.4
6	11510.00	34.7 AV	54.0	-19.3	1.33 H	249	22.3	12.4
7	#17265.00	41.6 PK	68.2	-26.6	3.30 H	148	24.3	17.3
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	#5604.41	51.9 PK	68.2	-16.3	2.13 V	58	50.3	1.6
2	*5755.00	98.8 PK			2.13 V	58	97.1	1.7
3	*5755.00	90.6 AV			2.13 V	58	88.9	1.7
4	#6016.65	52.5 PK	68.2	-15.7	2.13 V	58	50.2	2.3
5	11510.00	46.5 PK	74.0	-27.5	1.37 V	241	34.1	12.4
6	11510.00	34.7 AV	54.0	-19.3	1.37 V	241	22.3	12.4
7	#17265.00	41.5 PK	68.2	-26.7	1.61 V	331	24.2	17.3

Remarks:

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

RF Mode	802.11ac (VHT40)	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	25 °C, 75% RH
Tested By	Felix Chang		

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	#5603.69	49.4 PK	68.2	-18.8	1.76 H	139	47.8	1.6
2	*5795.00	99.2 PK			1.76 H	139	97.3	1.9
3	*5795.00	90.9 AV			1.76 H	139	89.0	1.9
4	#6018.90	50.6 PK	68.2	-17.6	1.76 H	139	48.3	2.3
5	11590.00	45.3 PK	74.0	-28.7	1.32 H	230	33.0	12.3
6	11590.00	34.5 AV	54.0	-19.5	1.32 H	230	22.2	12.3
7	#17385.00	41.1 PK	68.2	-27.1	3.32 H	164	22.4	18.7
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	#5584.85	51.3 PK	68.2	-16.9	1.98 V	53	49.5	1.8
2	*5795.00	101.7 PK			1.98 V	53	99.8	1.9
3	*5795.00	93.3 AV			1.98 V	53	91.4	1.9
4	#6021.76	51.6 PK	68.2	-16.6	1.98 V	53	49.3	2.3
5	11590.00	48.5 PK	74.0	-25.5	1.43 V	247	36.2	12.3
6	11590.00	35.4 AV	54.0	-18.6	1.43 V	247	23.1	12.3
7	#17385.00	42.5 PK	68.2	-25.7	1.51 V	296	23.8	18.7

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	802.11ac (VHT80)	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix Chang		

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	63.2 PK	74.0	-10.8	1.81 H	194	61.1	2.1
2	5150.00	52.5 AV	54.0	-1.5	1.81 H	194	50.4	2.1
3	*5210.00	95.7 PK			1.81 H	194	93.9	1.8
4	*5210.00	88.1 AV			1.81 H	194	86.3	1.8
5	5350.00	50.3 PK	74.0	-23.7	1.81 H	194	48.6	1.7
6	5350.00	38.7 AV	54.0	-15.3	1.81 H	194	37.0	1.7
7	#10420.00	47.5 PK	68.2	-20.7	1.53 H	255	35.8	11.7
8	15630.00	41.6 PK	74.0	-32.4	1.54 H	280	29.9	11.7
9	15630.00	31.0 AV	54.0	-23.0	1.54 H	280	19.3	11.7

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	5150.00	56.8 PK	74.0	-17.2	1.72 V	118	54.7	2.1
2	5150.00	47.9 AV	54.0	-6.1	1.72 V	118	45.8	2.1
3	*5210.00	91.3 PK			1.72 V	118	89.5	1.8
4	*5210.00	82.8 AV			1.72 V	118	81.0	1.8
5	5350.00	50.4 PK	74.0	-23.6	1.72 V	118	48.7	1.7
6	5350.00	38.2 AV	54.0	-15.8	1.72 V	118	36.5	1.7
7	#10420.00	48.2 PK	68.2	-20.0	1.50 V	238	36.5	11.7
8	15630.00	42.3 PK	74.0	-31.7	1.58 V	288	30.6	11.7
9	15630.00	30.3 AV	54.0	-23.7	1.58 V	288	18.6	11.7

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	802.11ac (VHT80)	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix Chang		

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	51.8 PK	74.0	-22.2	1.64 H	183	49.7	2.1
2	5150.00	39.3 AV	54.0	-14.7	1.64 H	183	37.2	2.1
3	*5290.00	91.8 PK			1.64 H	183	90.1	1.7
4	*5290.00	83.7 AV			1.64 H	183	82.0	1.7
5	5350.00	64.7 PK	74.0	-9.3	1.64 H	183	63.0	1.7
6	5350.00	53.5 AV	54.0	-0.5	1.64 H	183	51.8	1.7
7	#10580.00	47.1 PK	68.2	-21.1	1.59 H	266	35.2	11.9
8	15870.00	42.3 PK	74.0	-31.7	1.59 H	275	30.4	11.9
9	15870.00	30.3 AV	54.0	-23.7	1.59 H	275	18.4	11.9

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	51.7 PK	74.0	-22.3	2.05 V	104	49.6	2.1
2	5150.00	39.3 AV	54.0	-14.7	2.05 V	104	37.2	2.1
3	*5290.00	90.4 PK			2.05 V	104	88.7	1.7
4	*5290.00	82.1 AV			2.05 V	104	80.4	1.7
5	5350.00	57.3 PK	74.0	-16.7	2.05 V	104	55.6	1.7
6	5350.00	47.5 AV	54.0	-6.5	2.05 V	104	45.8	1.7
7	#10580.00	47.6 PK	68.2	-20.6	1.40 V	245	35.7	11.9
8	15870.00	41.9 PK	74.0	-32.1	1.58 V	303	30.0	11.9
9	15870.00	30.5 AV	54.0	-23.5	1.58 V	303	18.6	11.9

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	802.11ac (VHT80)	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix Chang		

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	58.0 PK	74.0	-16.0	1.82 H	185	56.0	2.0
2	5460.00	47.8 AV	54.0	-6.2	1.82 H	185	45.8	2.0
3	#5470.00	58.1 PK	68.2	-10.1	1.82 H	185	56.0	2.1
4	*5530.00	88.9 PK			1.82 H	185	87.0	1.9
5	*5530.00	80.9 AV			1.82 H	185	79.0	1.9
6	#5725.00	50.6 PK	68.2	-17.6	1.82 H	185	49.1	1.5
7	11060.00	47.8 PK	74.0	-26.2	1.49 H	263	35.5	12.3
8	11060.00	35.9 AV	54.0	-18.1	1.49 H	263	23.6	12.3
9	#16590.00	41.2 PK	68.2	-27.0	1.54 H	281	26.1	15.1

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	5460.00	60.8 PK	74.0	-13.2	2.02 V	72	58.8	2.0
2	5460.00	51.1 AV	54.0	-2.9	2.02 V	72	49.1	2.0
3	#5470.00	64.5 PK	68.2	-3.7	2.02 V	72	62.4	2.1
4	*5530.00	92.5 PK			2.02 V	72	90.6	1.9
5	*5530.00	84.5 AV			2.02 V	72	82.6	1.9
6	#5725.00	51.3 PK	68.2	-16.9	2.02 V	72	49.8	1.5
7	11060.00	47.7 PK	74.0	-26.3	1.47 V	251	35.4	12.3
8	11060.00	34.8 AV	54.0	-19.2	1.47 V	251	22.5	12.3
9	#16590.00	42.2 PK	68.2	-26.0	1.56 V	294	27.1	15.1

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	802.11ac (VHT80)	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Felix Chang		

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	#5558.61	47.8 PK	68.2	-20.4	1.65 H	139	46.1	1.7
2	*5775.00	90.3 PK			1.65 H	139	88.5	1.8
3	*5775.00	83.4 AV			1.65 H	139	81.6	1.8
4	#5953.09	48.6 PK	68.2	-19.6	1.65 H	139	46.3	2.3
5	11550.00	47.4 PK	74.0	-26.6	1.57 H	256	35.1	12.3
6	11550.00	35.7 AV	54.0	-18.3	1.57 H	256	23.4	12.3
7	#17325.00	41.1 PK	68.2	-27.1	1.54 H	284	23.2	17.9
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	#5765.36	53.7 PK	68.2	-14.5	1.96 V	44	51.9	1.8
2	*5775.00	95.8 PK			1.96 V	44	94.0	1.8
3	*5775.00	87.1 AV			1.96 V	44	85.3	1.8
4	#5955.12	51.9 PK	68.2	-16.3	1.96 V	44	49.6	2.3
5	11550.00	48.1 PK	74.0	-25.9	1.44 V	248	35.8	12.3
6	11550.00	35.7 AV	54.0	-18.3	1.44 V	248	23.4	12.3
7	#17325.00	41.7 PK	68.2	-26.5	1.47 V	300	23.8	17.9

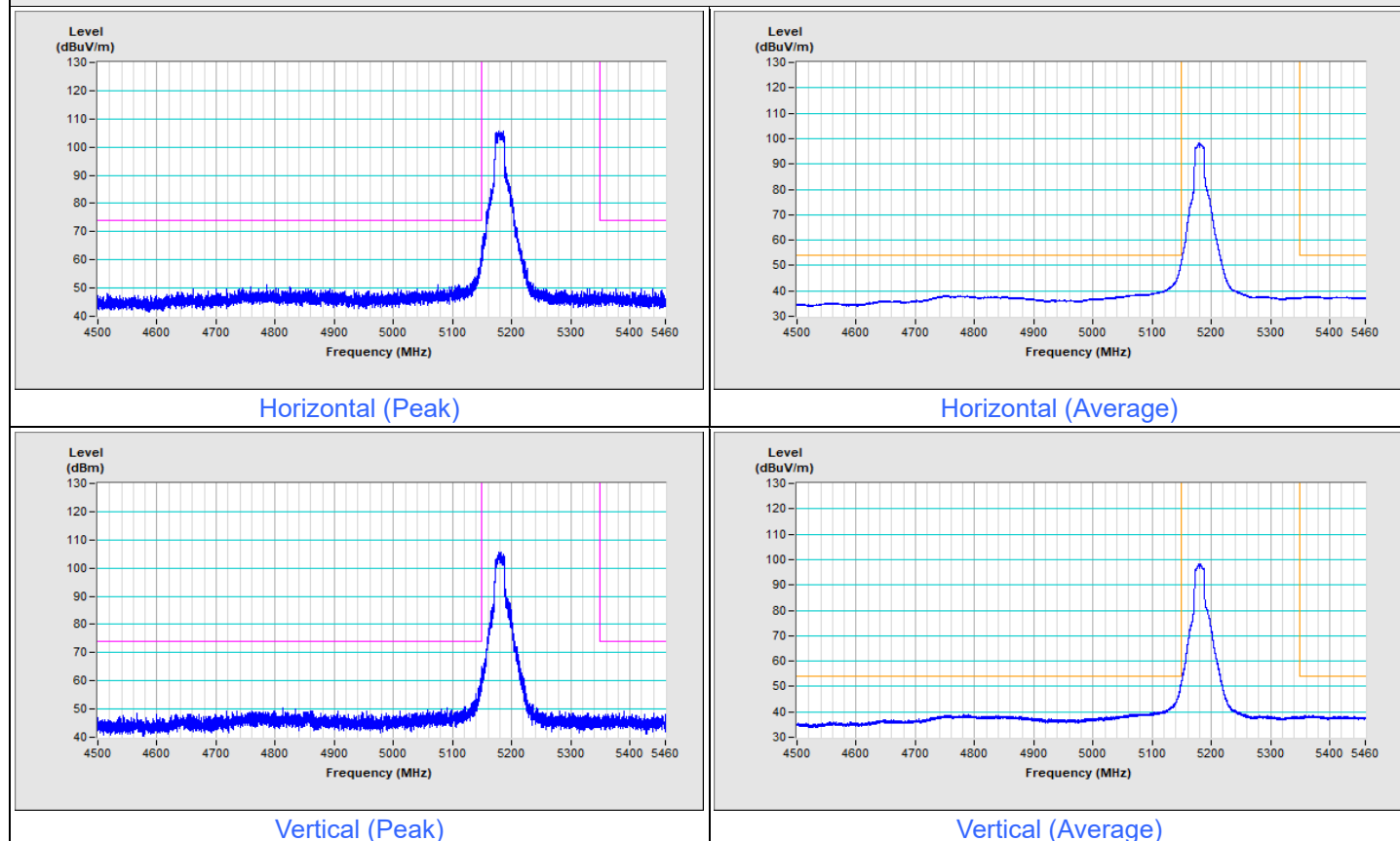
Remarks:

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.

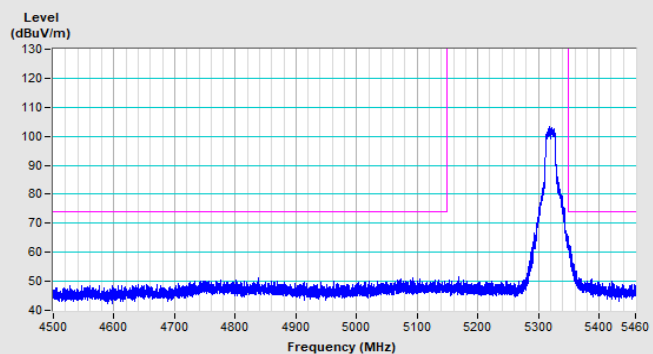
Plot of Band Edge

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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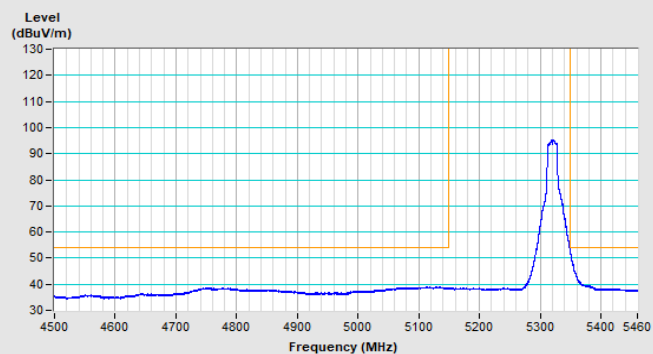
802.11a Channel 36



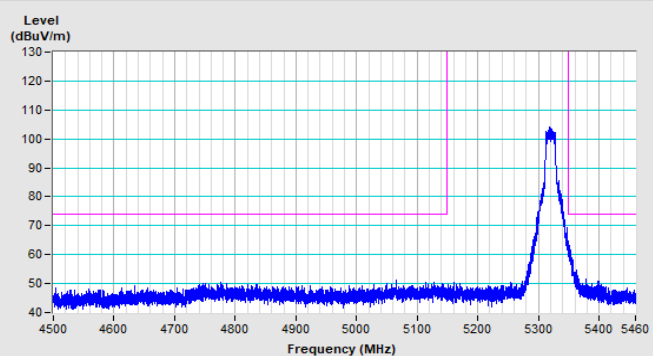
802.11a Channel 64



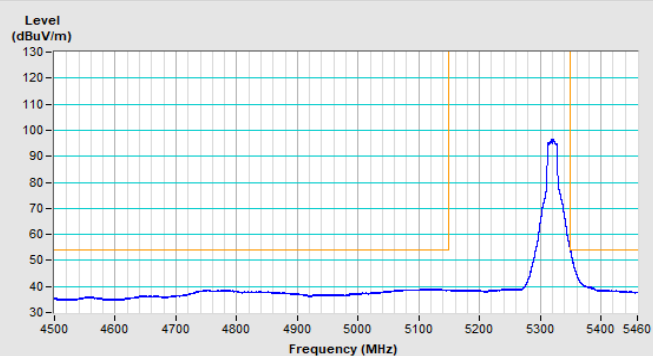
Horizontal (Peak)



Horizontal (Average)



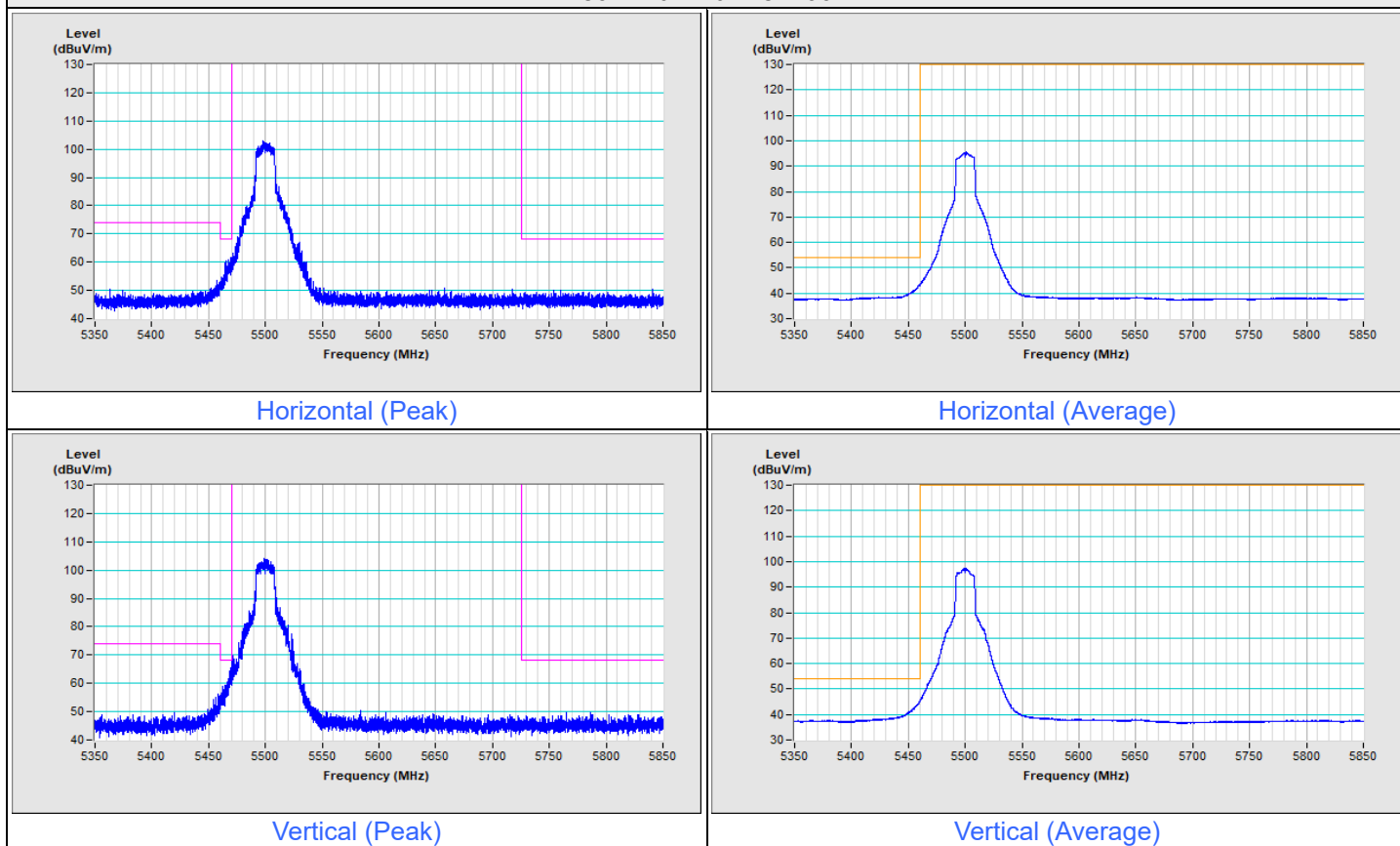
Vertical (Peak)



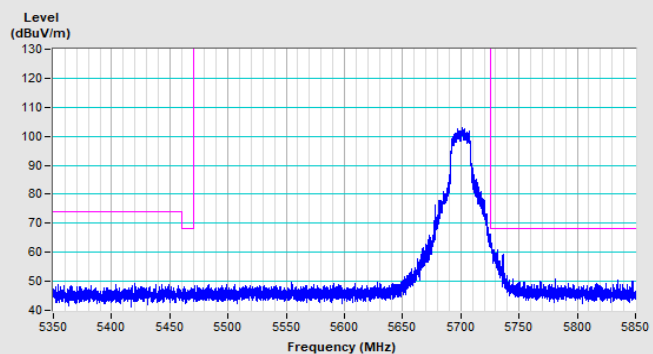
Vertical (Average)

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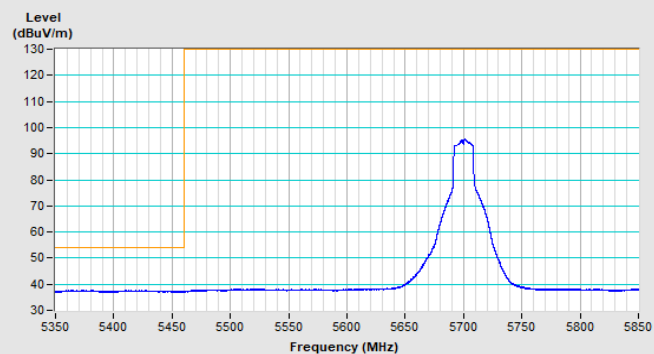
802.11a Channel 100



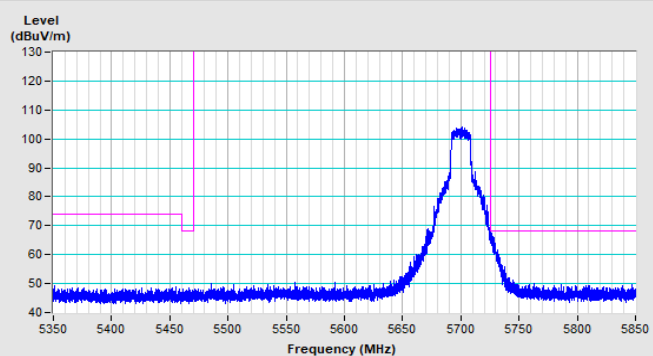
802.11a Channel 140



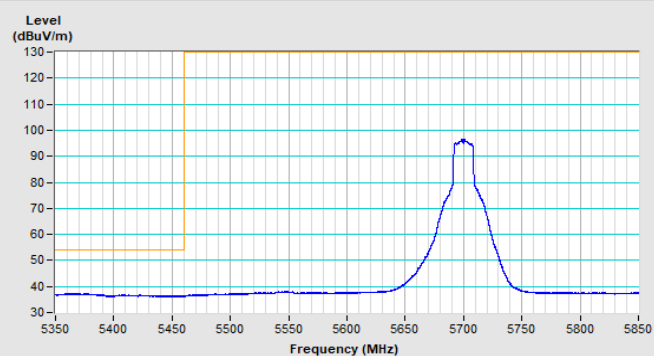
Horizontal (Peak)



Horizontal (Average)



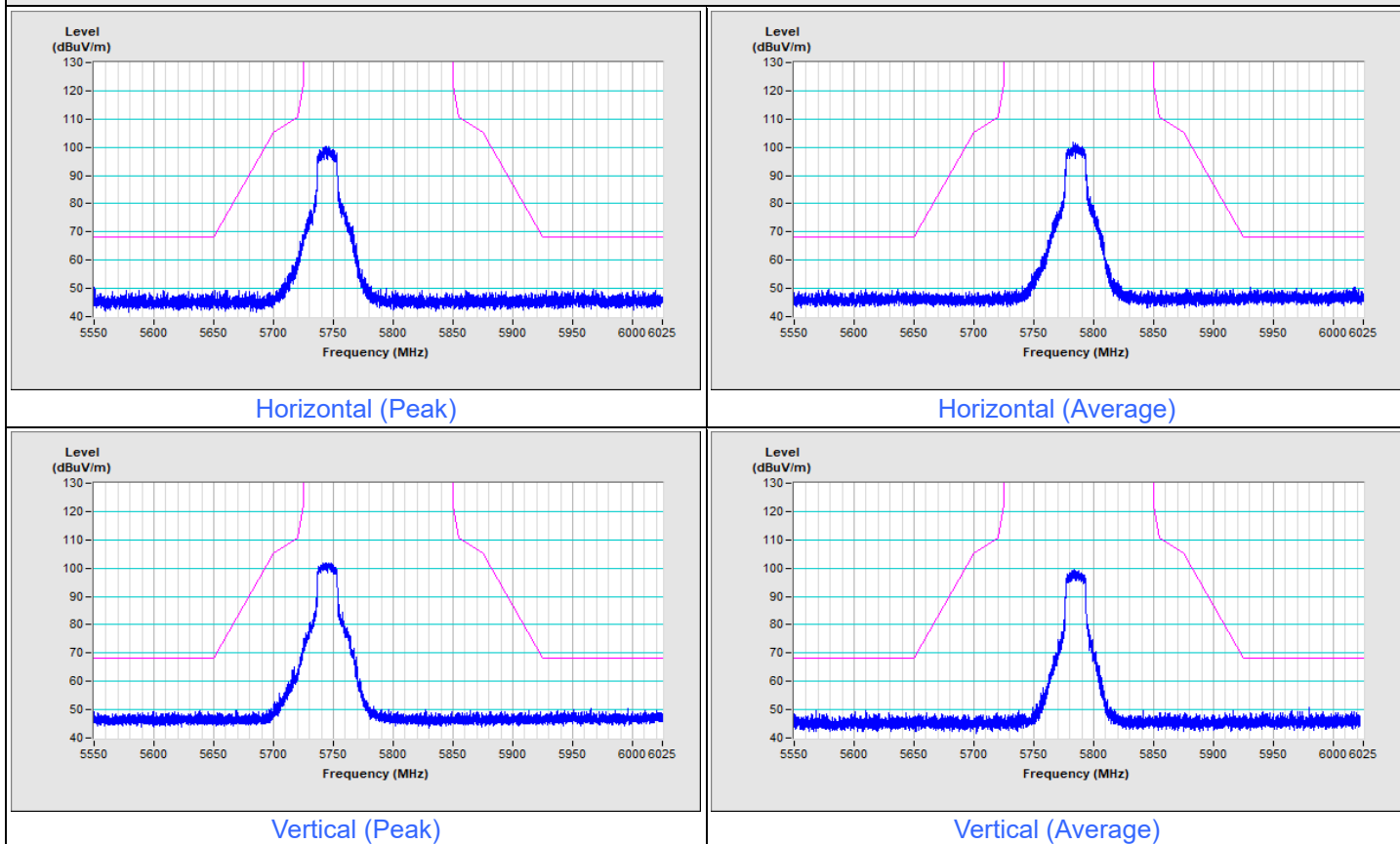
Vertical (Peak)



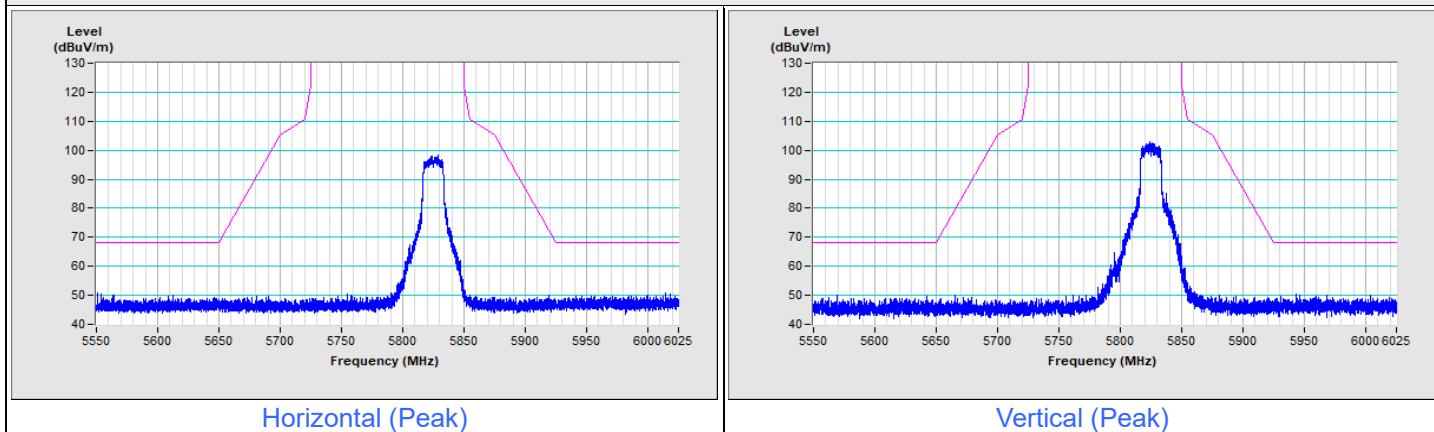
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 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 149

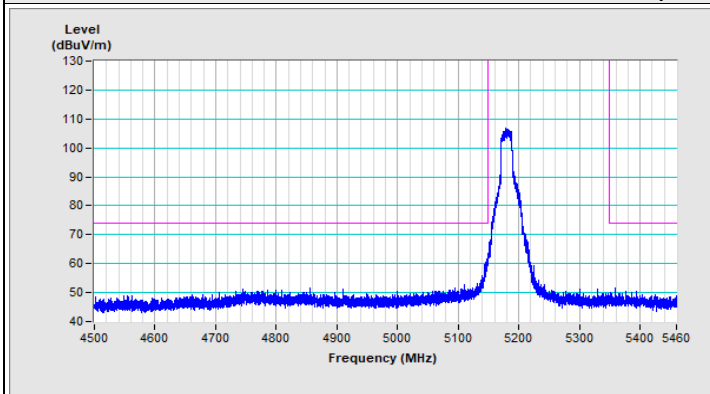


802.11a Channel 165

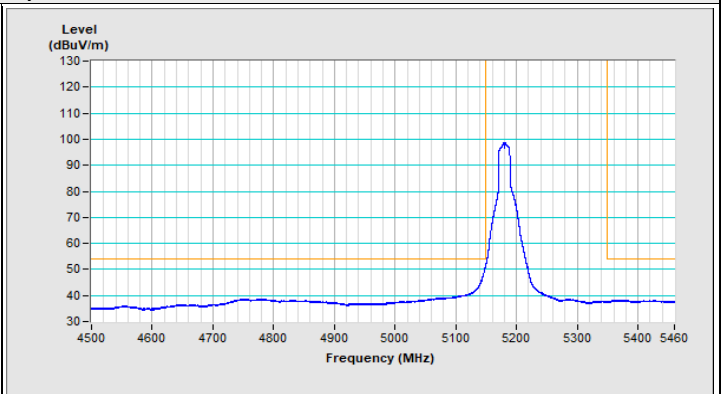


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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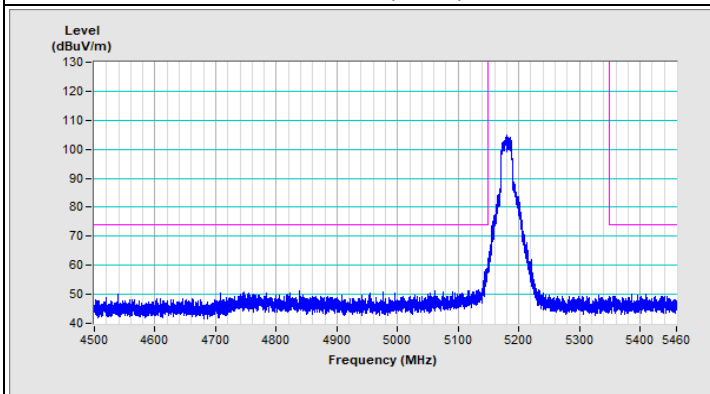
802.11ac (VHT20) Channel 36



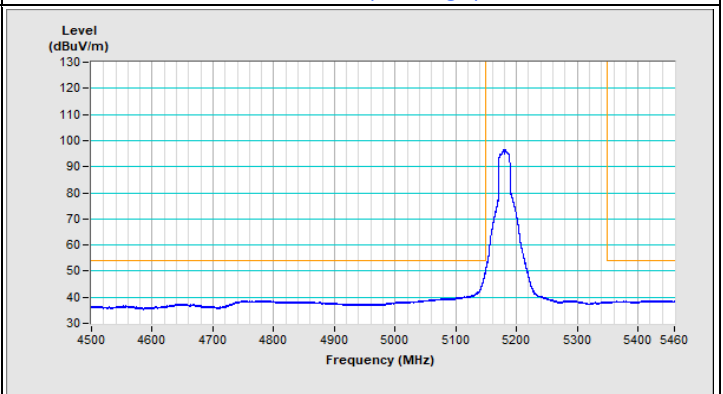
Horizontal (Peak)



Horizontal (Average)

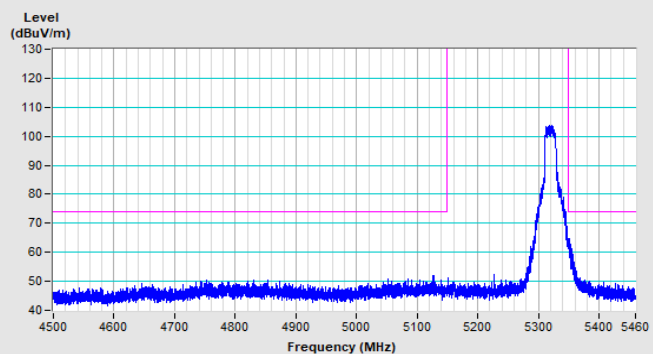


Vertical (Peak)

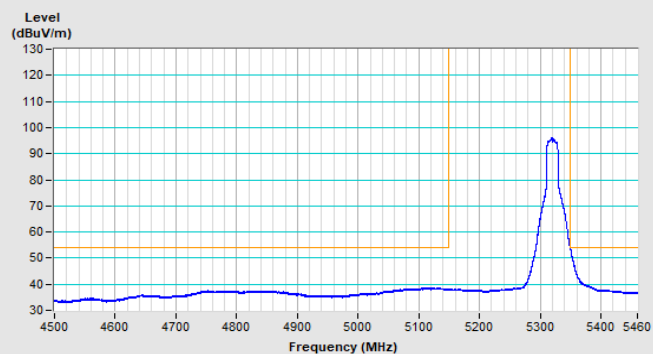


Vertical (Average)

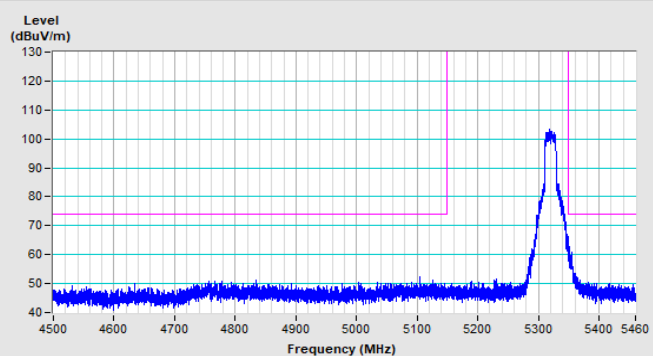
802.11ac (VHT20) Channel 64



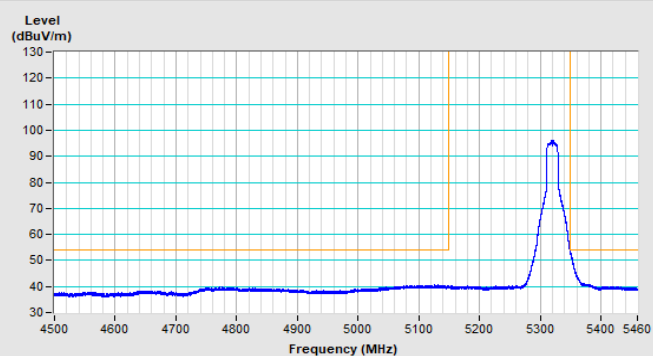
Horizontal (Peak)



Horizontal (Average)



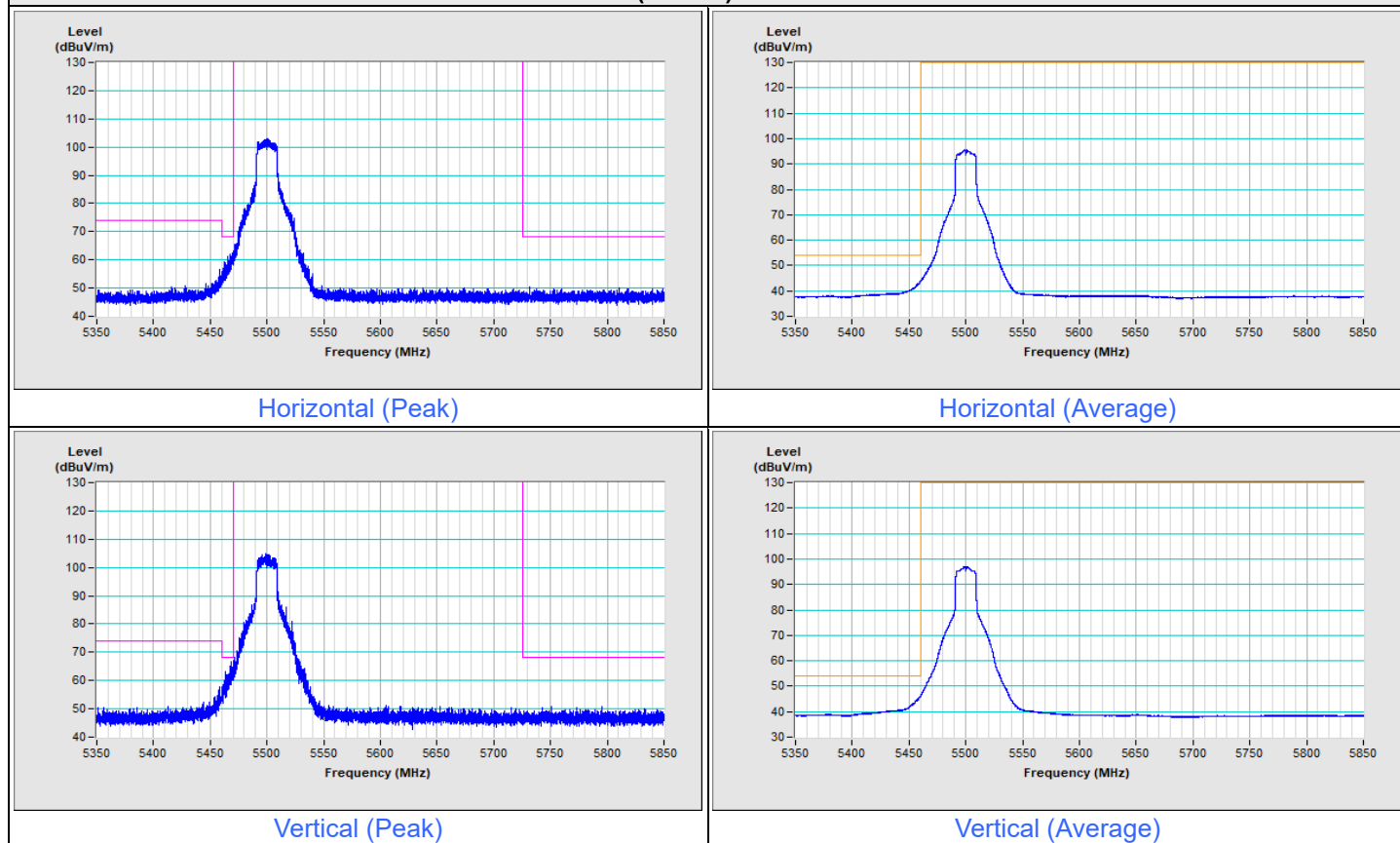
Vertical (Peak)



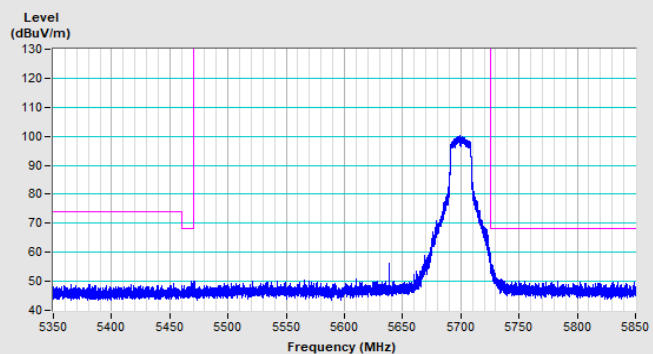
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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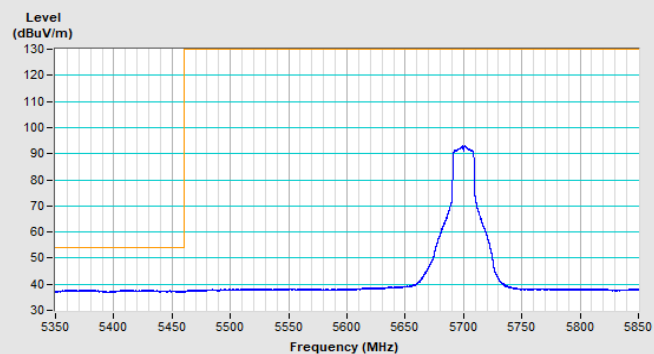
802.11ac (VHT20) Channel 100



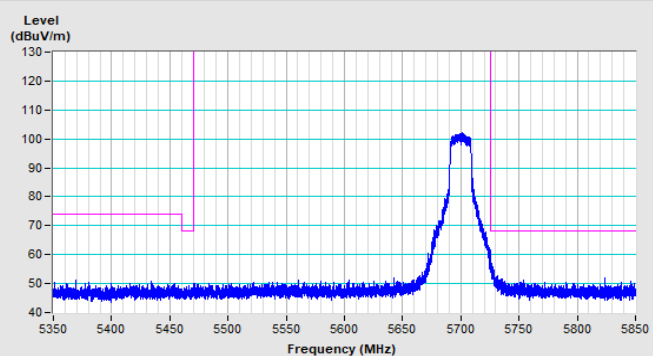
802.11ac (VHT20) Channel 140



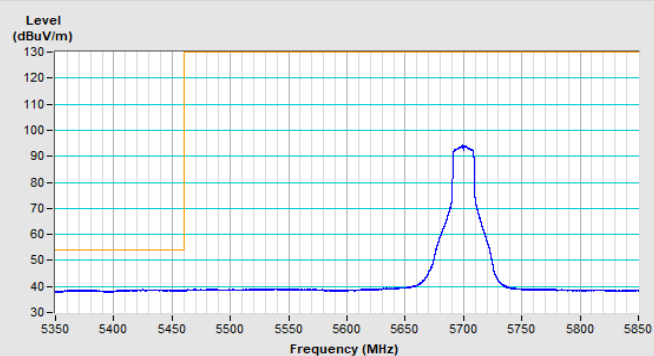
Horizontal (Peak)



Horizontal (Average)



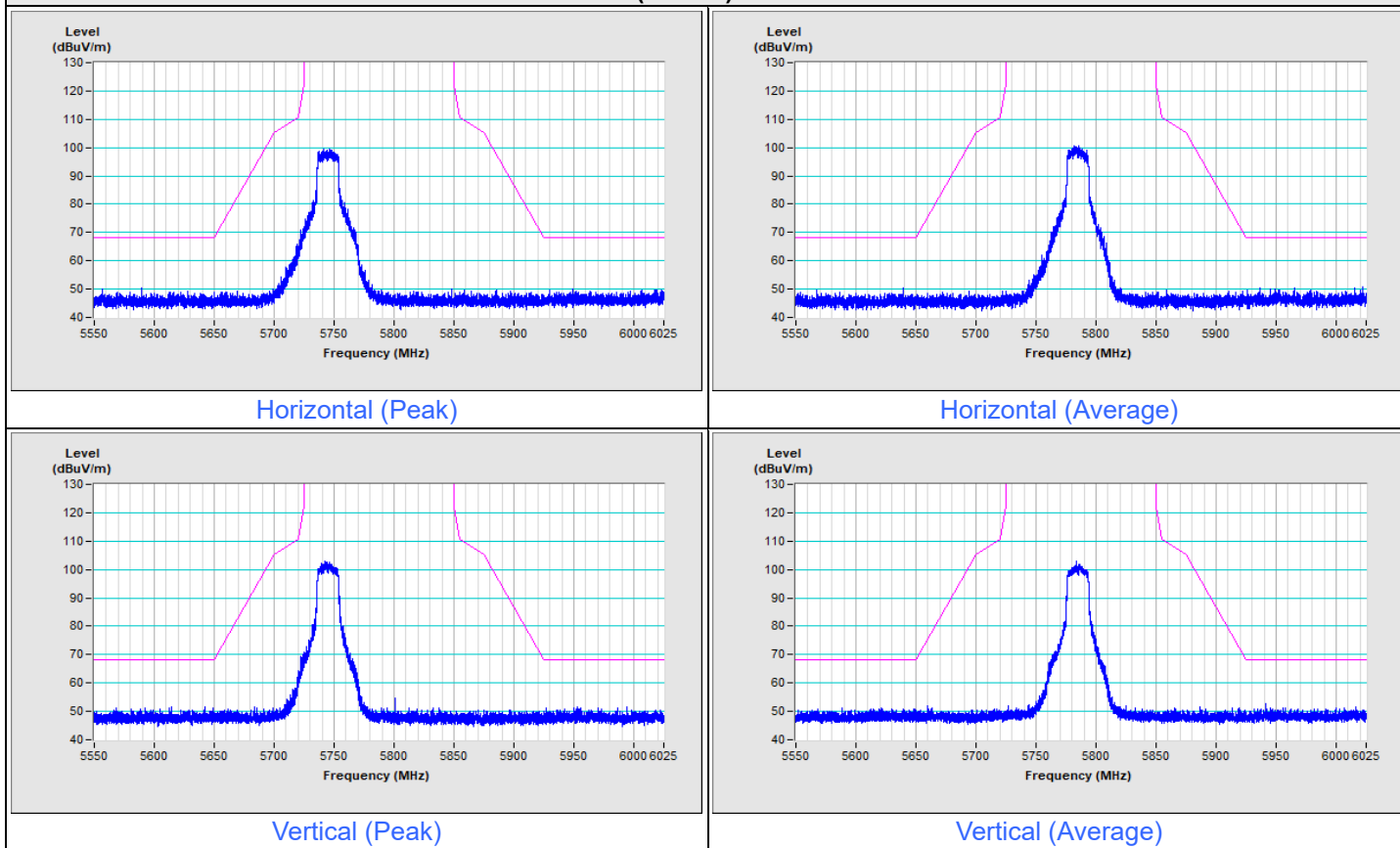
Vertical (Peak)



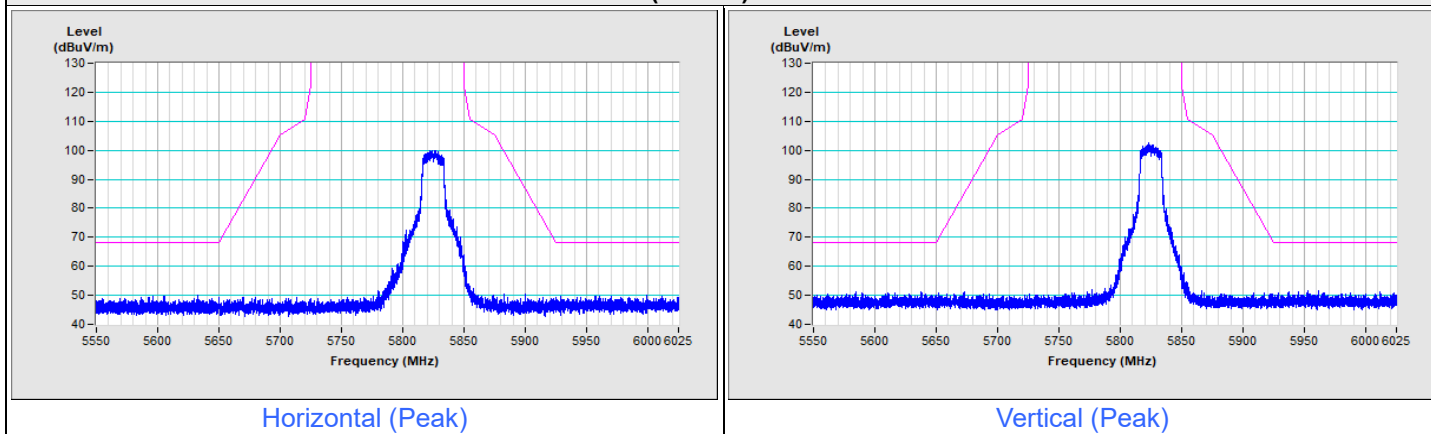
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 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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802.11ac (VHT20) Channel 149

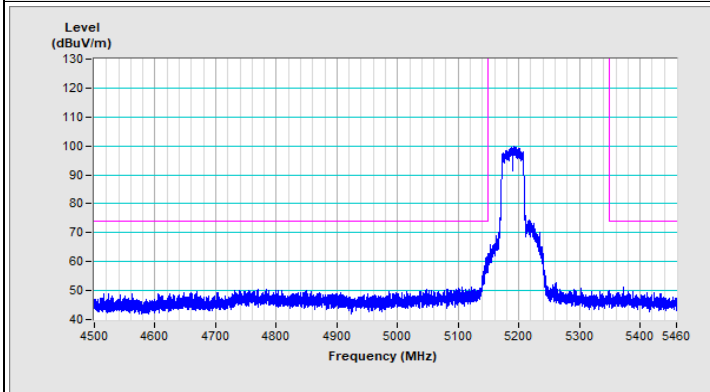


802.11ac (VHT20) Channel 165

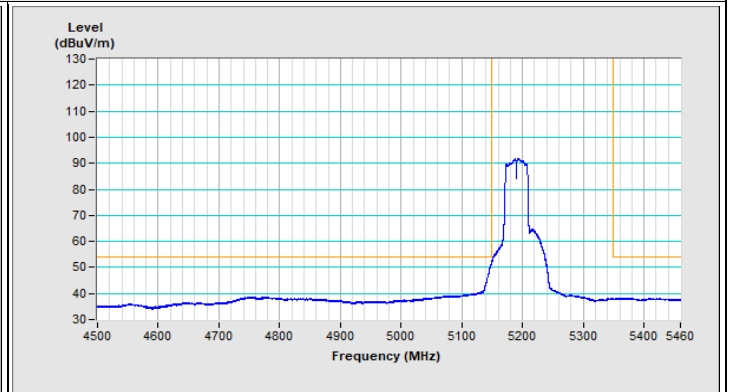


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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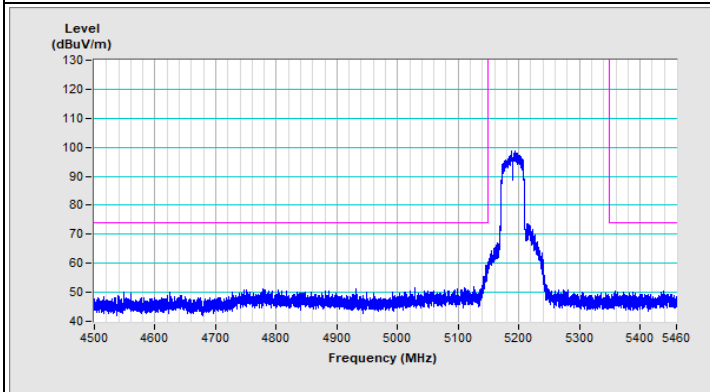
802.11ac (VHT40) Channel 38



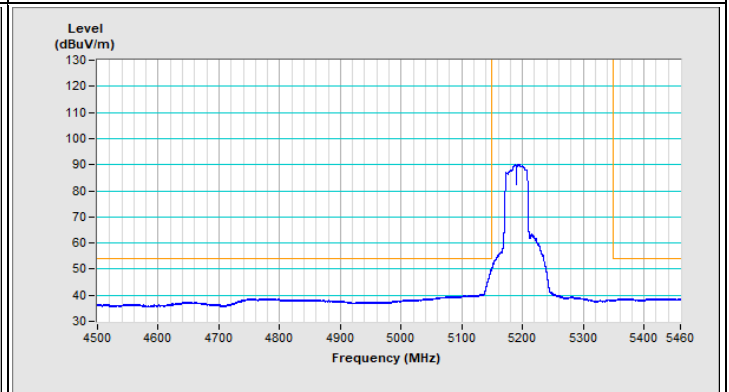
Horizontal (Peak)



Horizontal (Average)

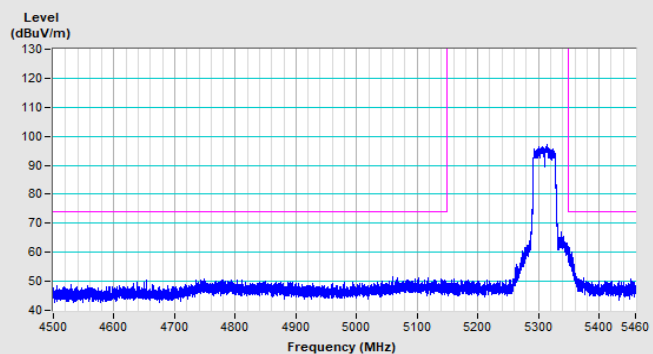


Vertical (Peak)

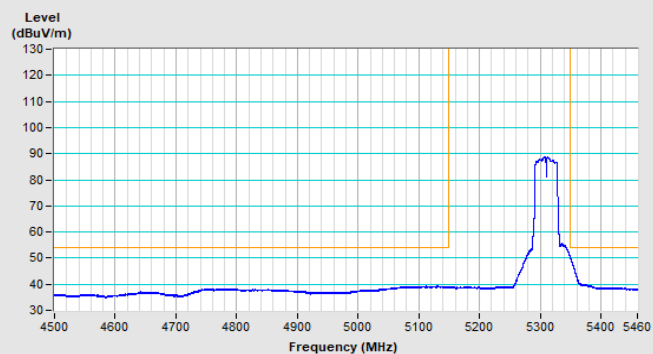


Vertical (Average)

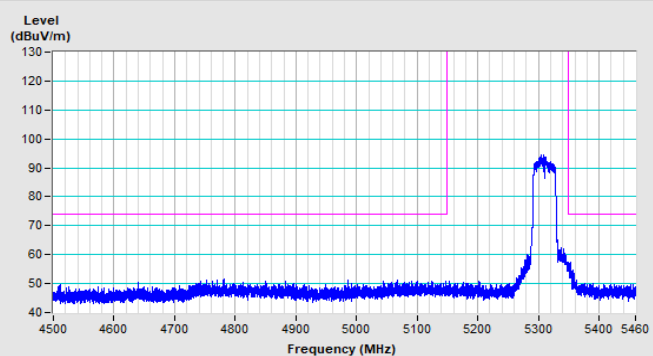
802.11ac (VHT40) Channel 62



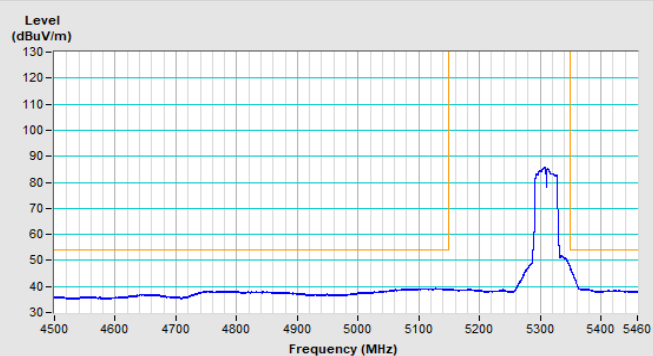
Horizontal (Peak)



Horizontal (Average)



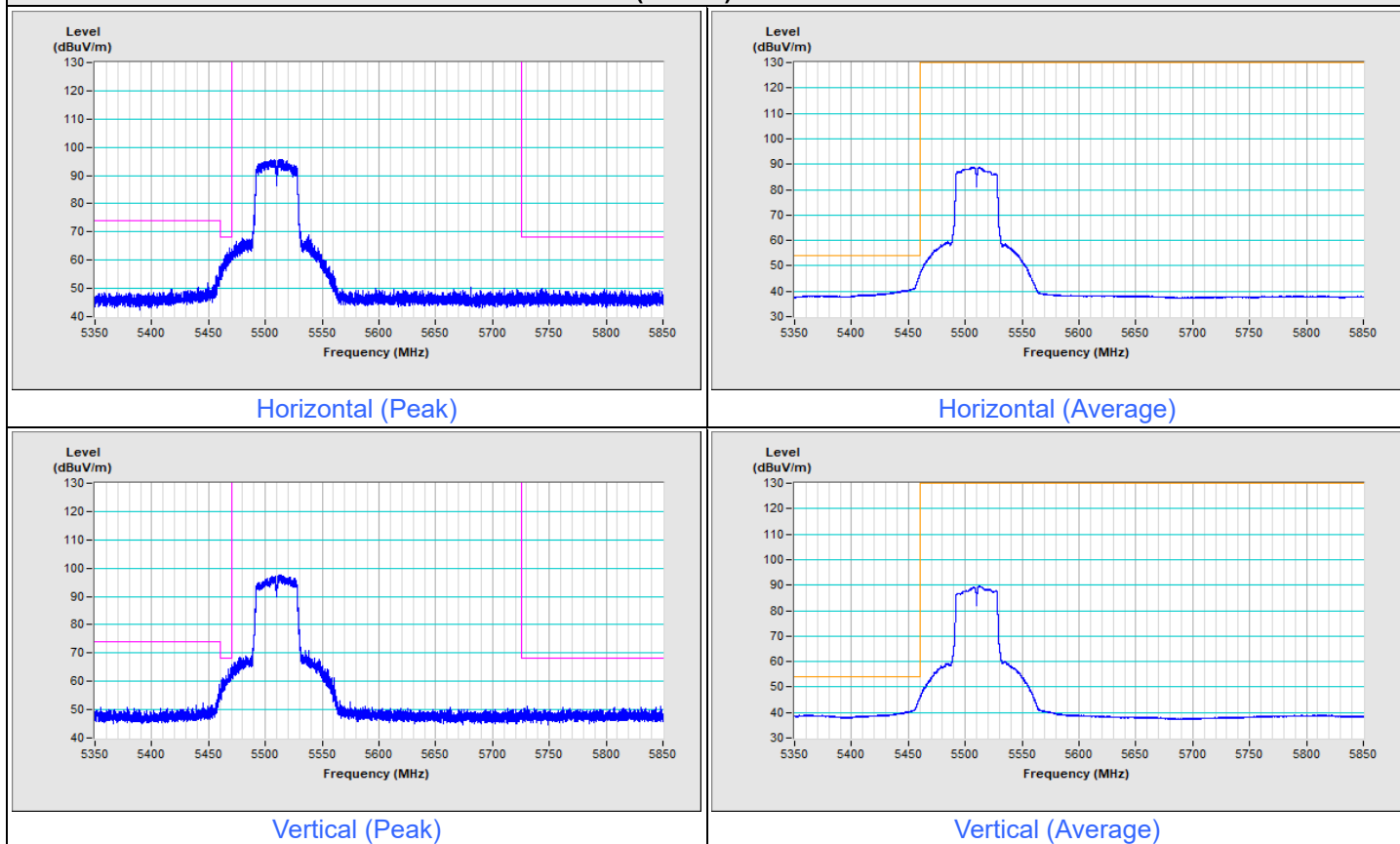
Vertical (Peak)



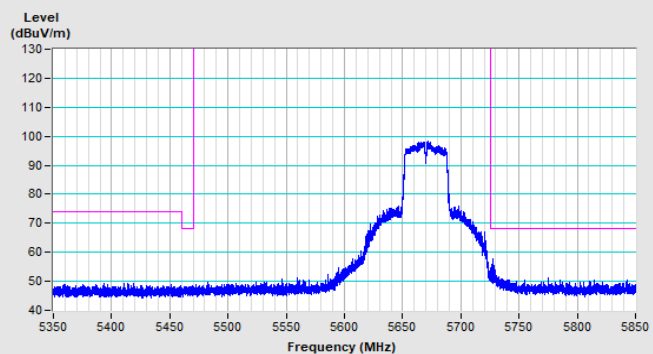
Vertical (Average)

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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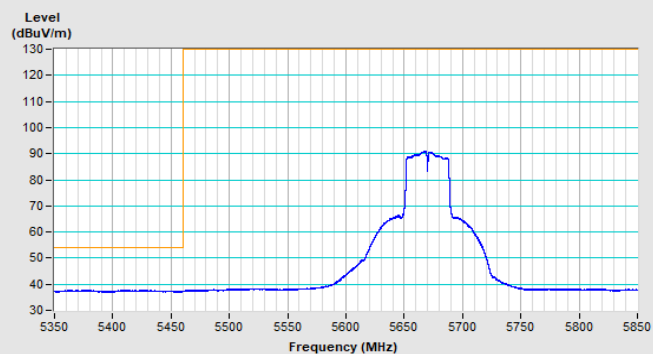
802.11ac (VHT40) Channel 102



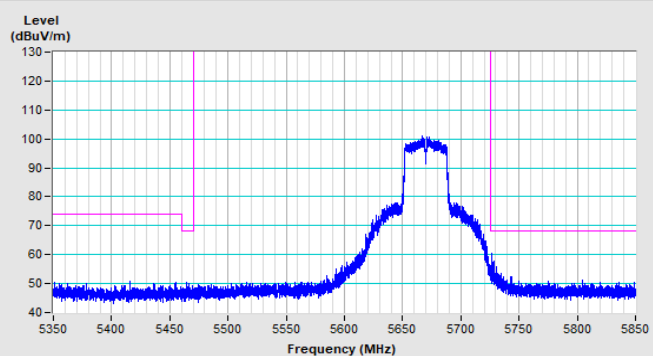
802.11ac (VHT40) Channel 134



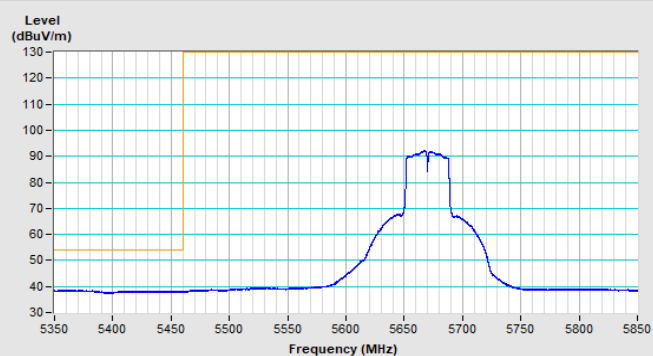
Horizontal (Peak)



Horizontal (Average)



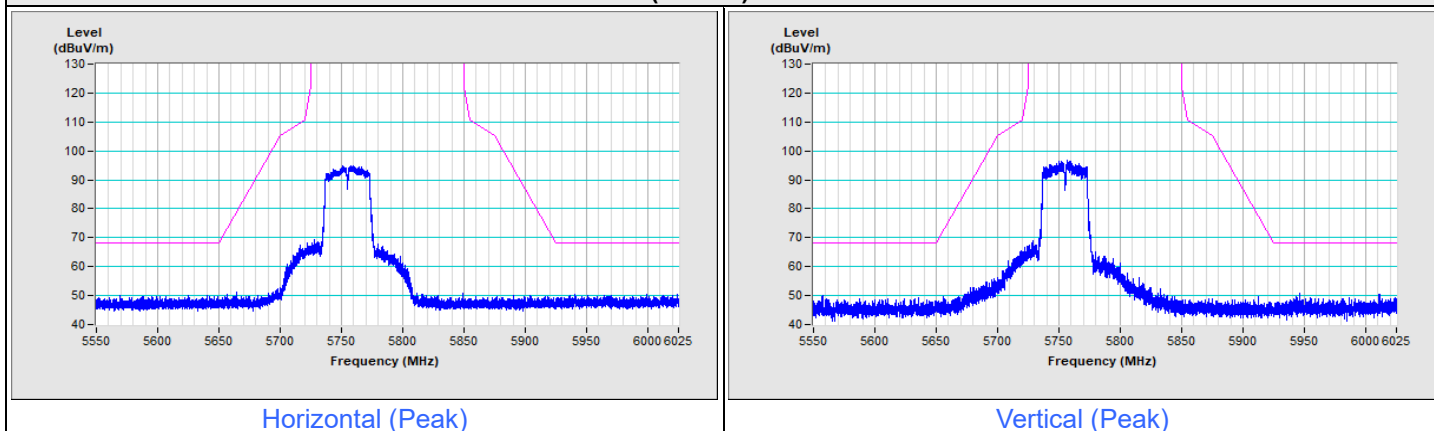
Vertical (Peak)



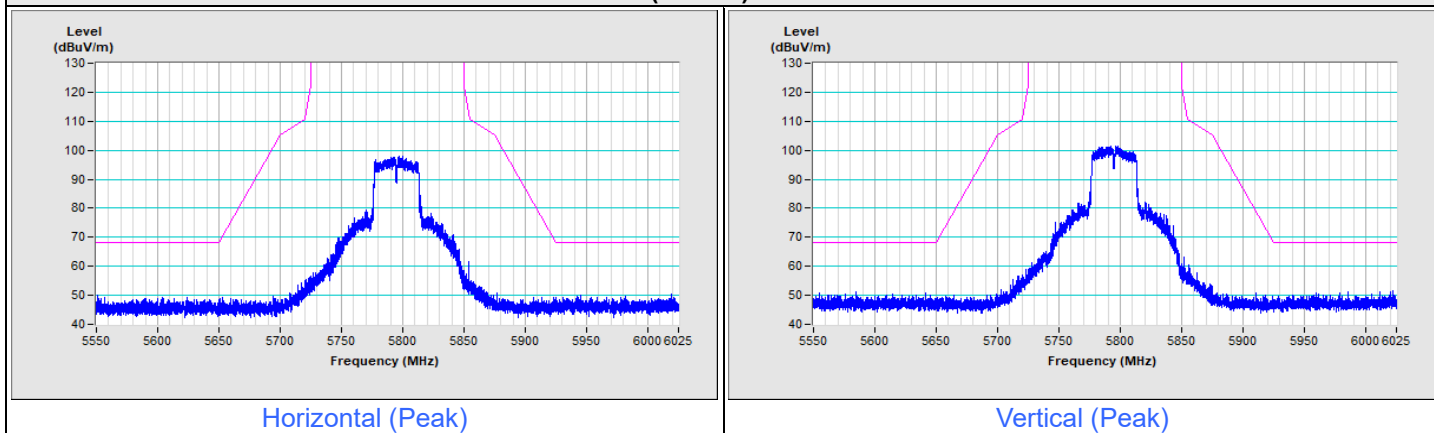
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151

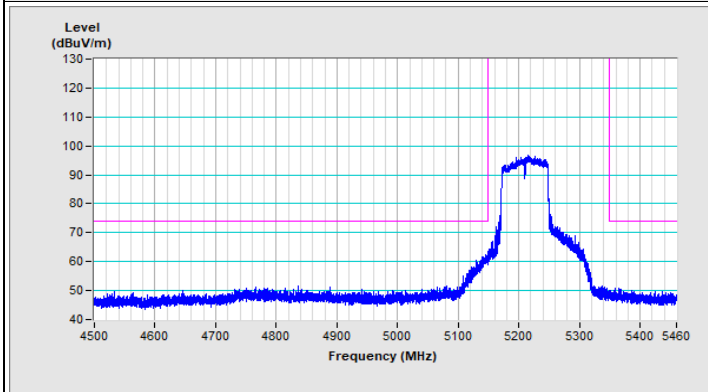


802.11ac (VHT40) Channel 159

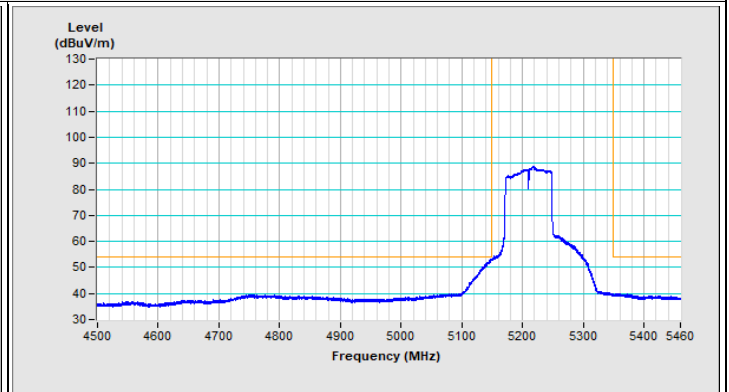


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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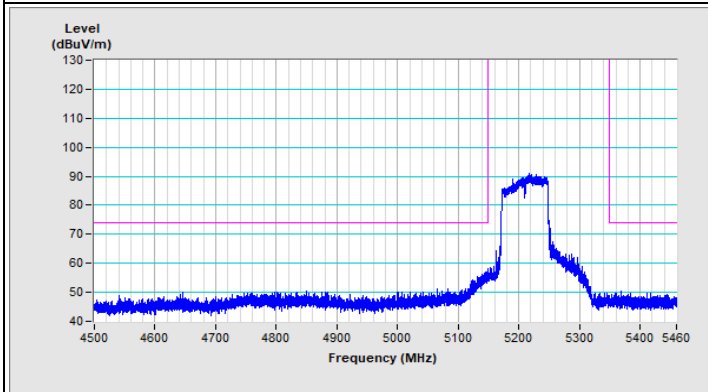
802.11ac (VHT80) Channel 42



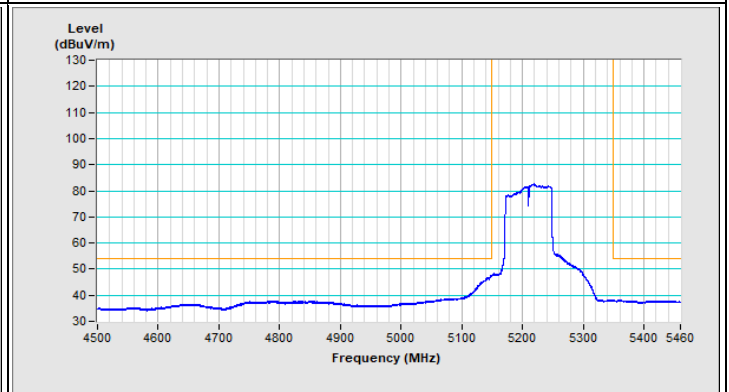
Horizontal (Peak)



Horizontal (Average)

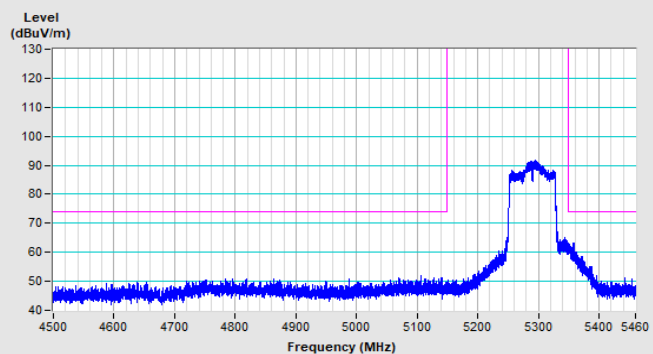


Vertical (Peak)

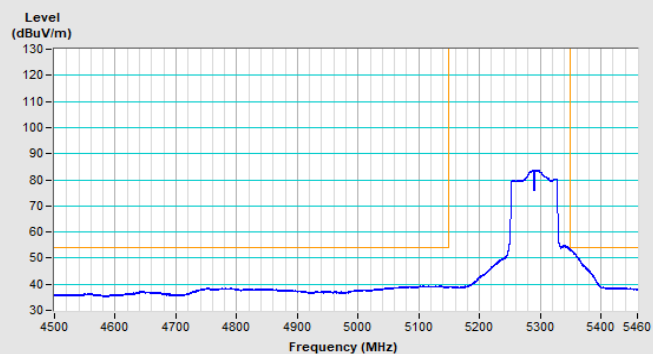


Vertical (Average)

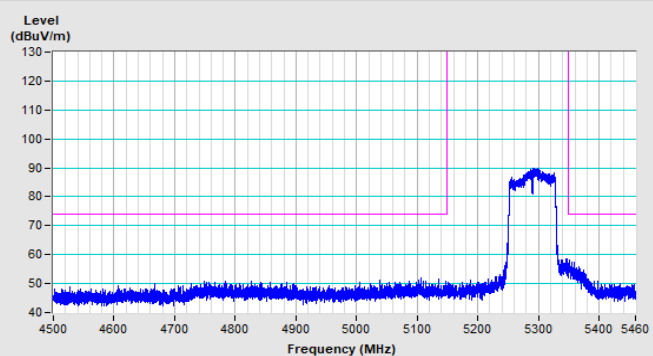
802.11ac (VHT80) Channel 58



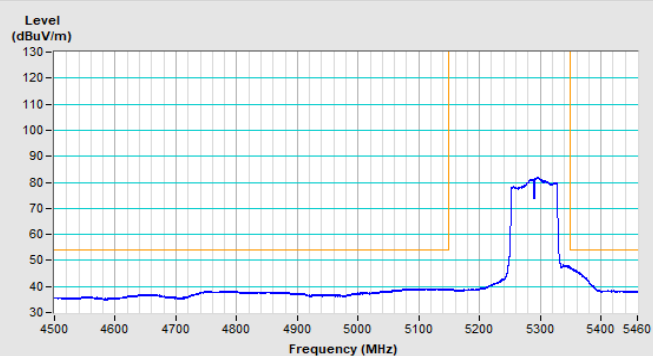
Horizontal (Peak)



Horizontal (Average)



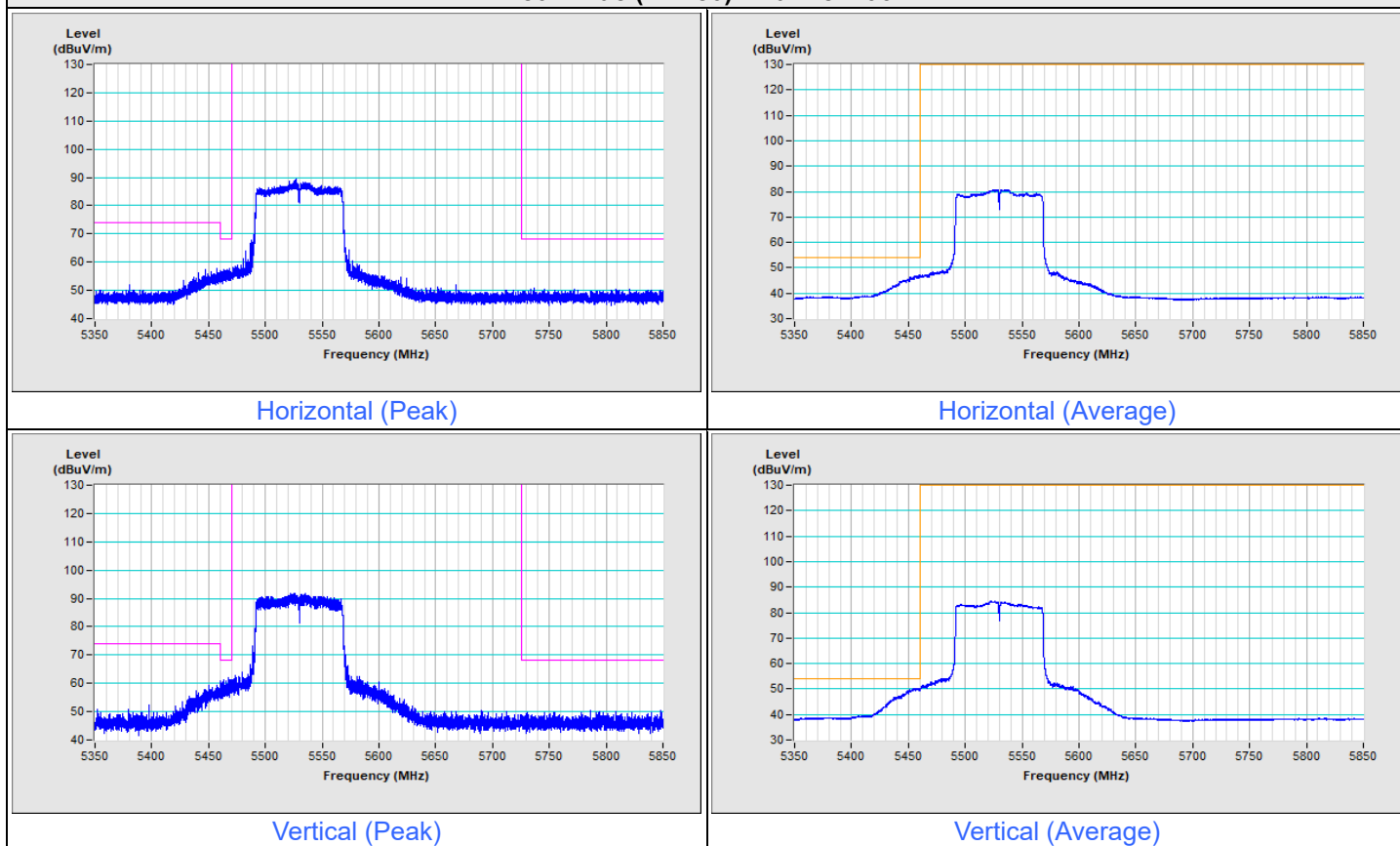
Vertical (Peak)



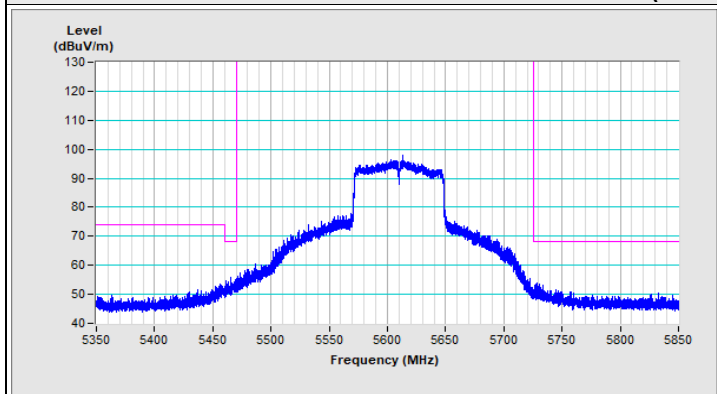
Vertical (Average)

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=1 kHz, DET=Peak
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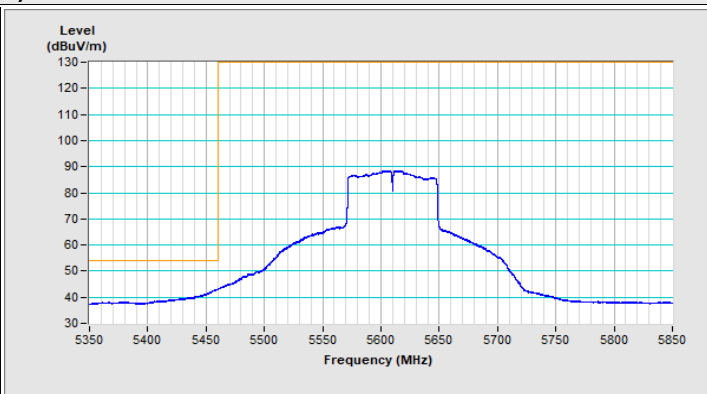
802.11ac (VHT80) Channel 106



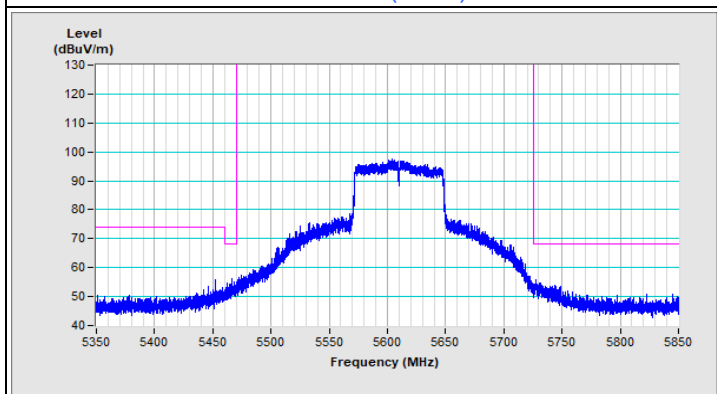
802.11ac (VHT80) Channel 122



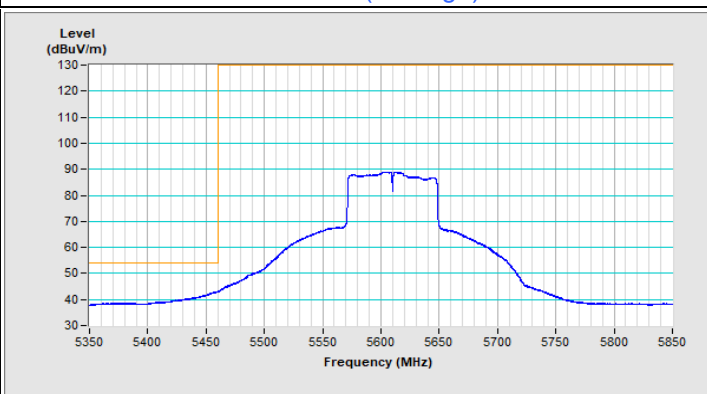
Horizontal (Peak)



Horizontal (Average)



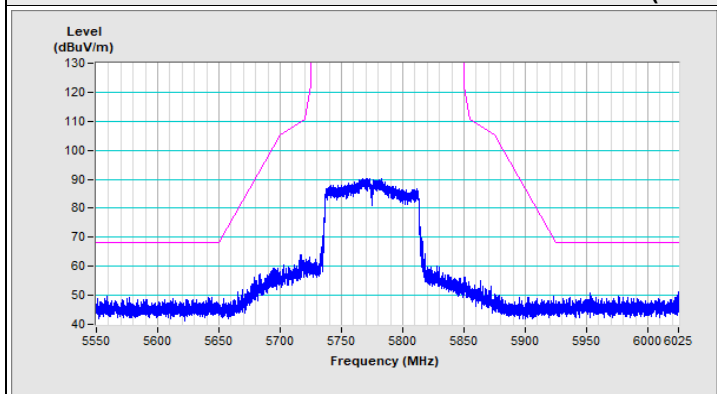
Vertical (Peak)



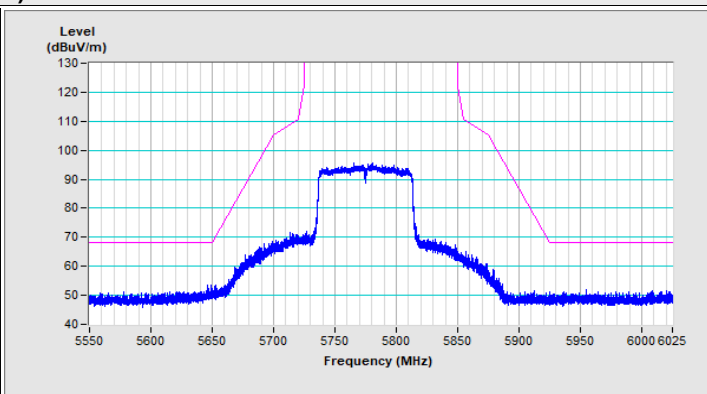
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155



Horizontal (Peak)

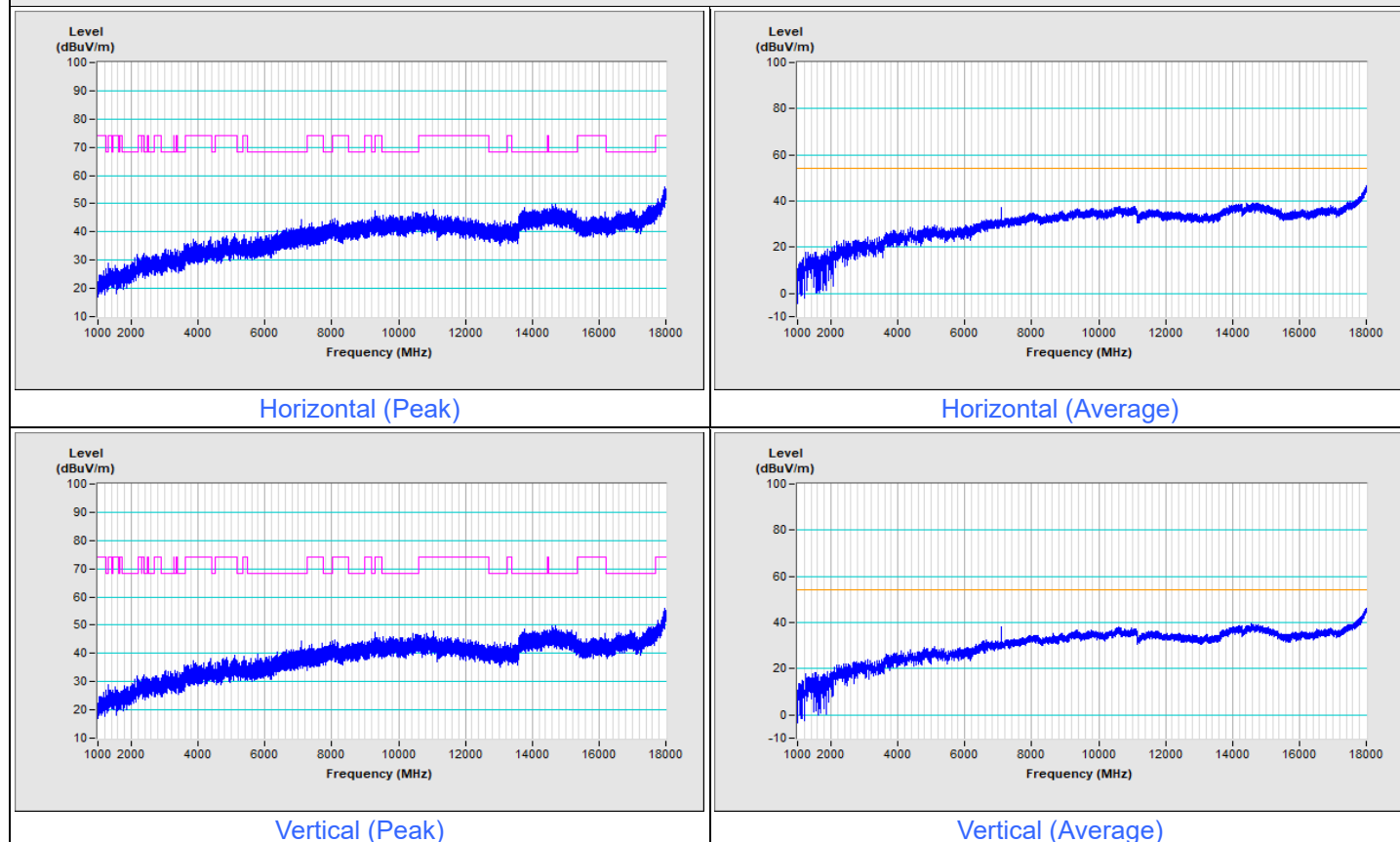


Vertical (Peak)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11a Channel 60

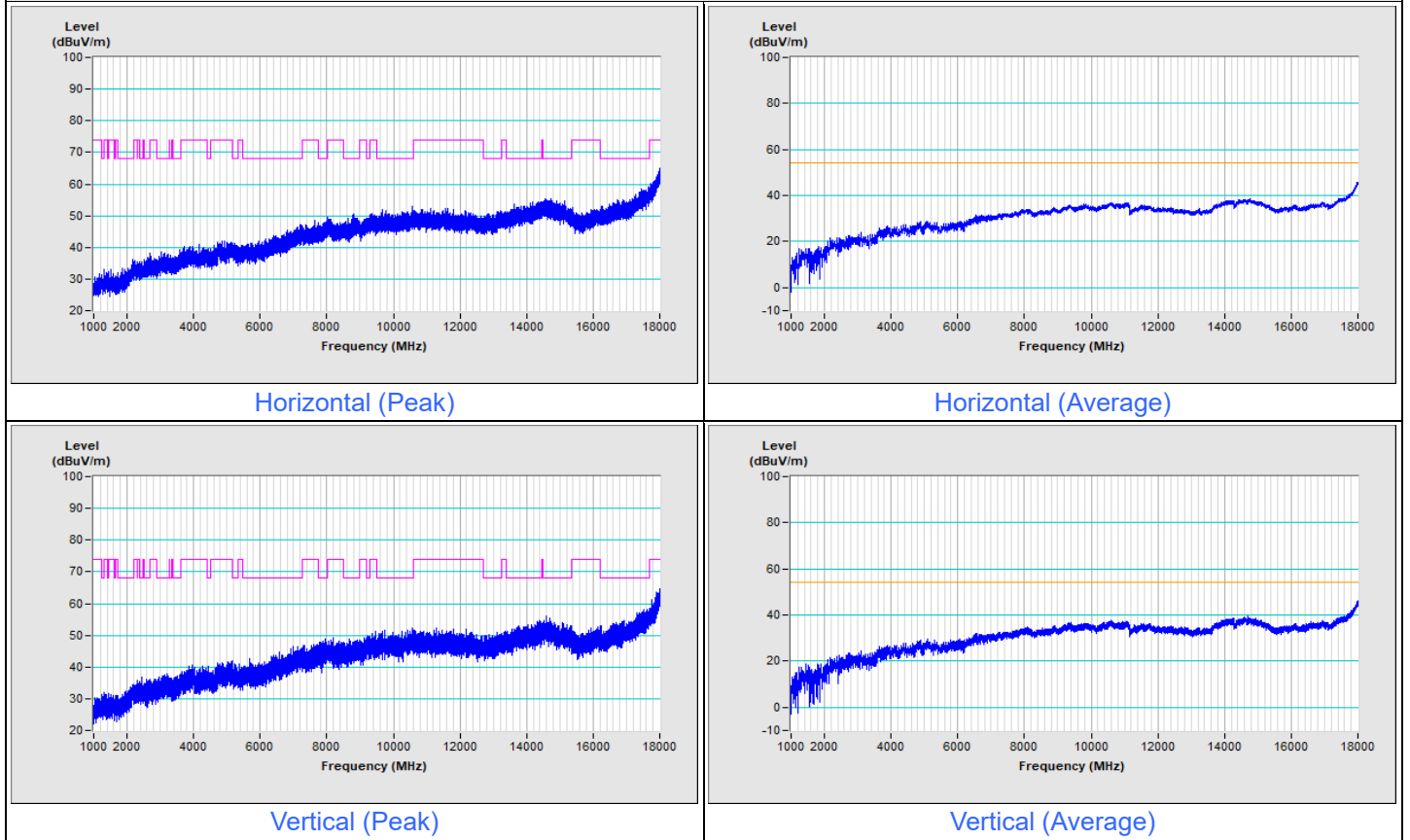


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT20) Channel 157

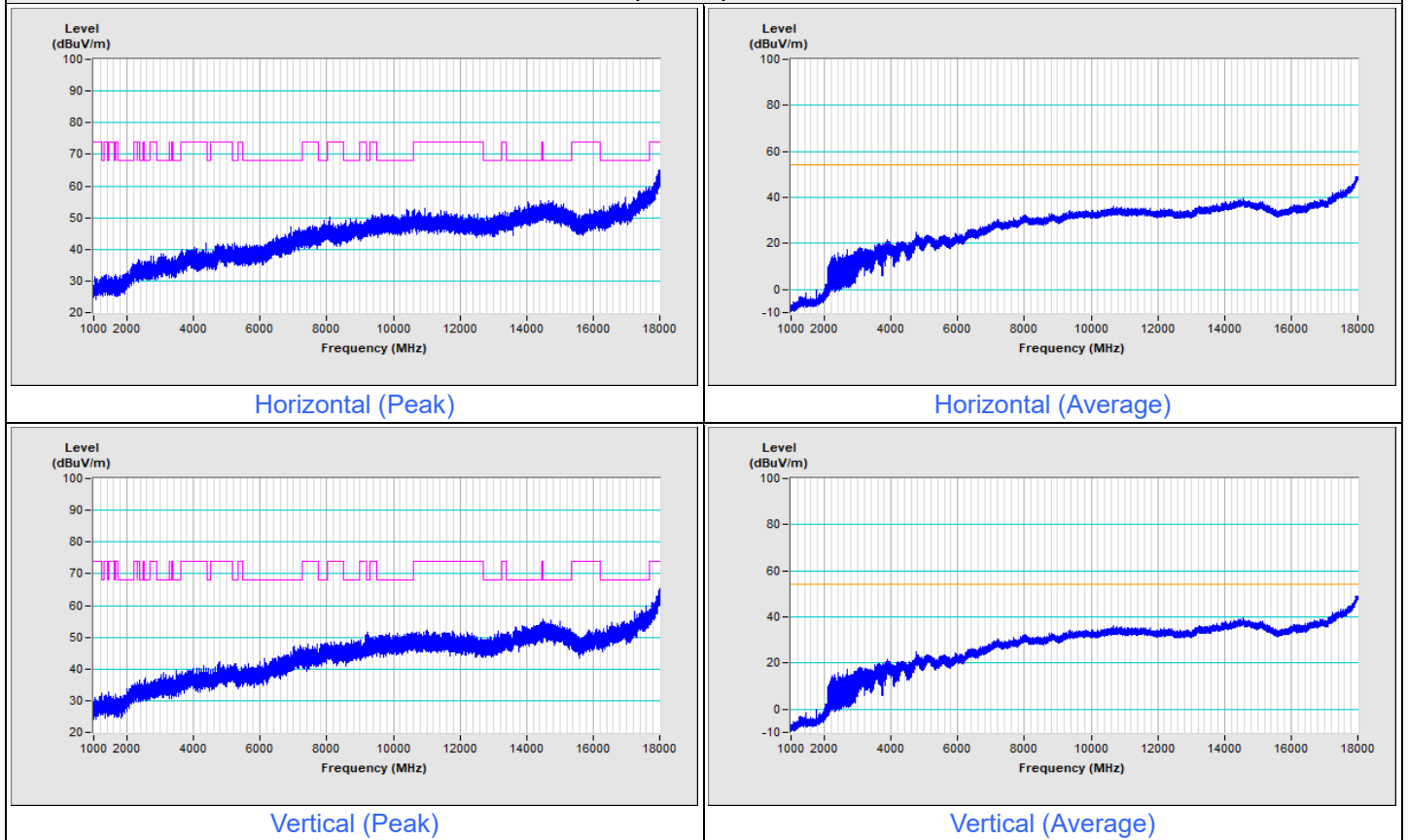


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT40) Channel 159

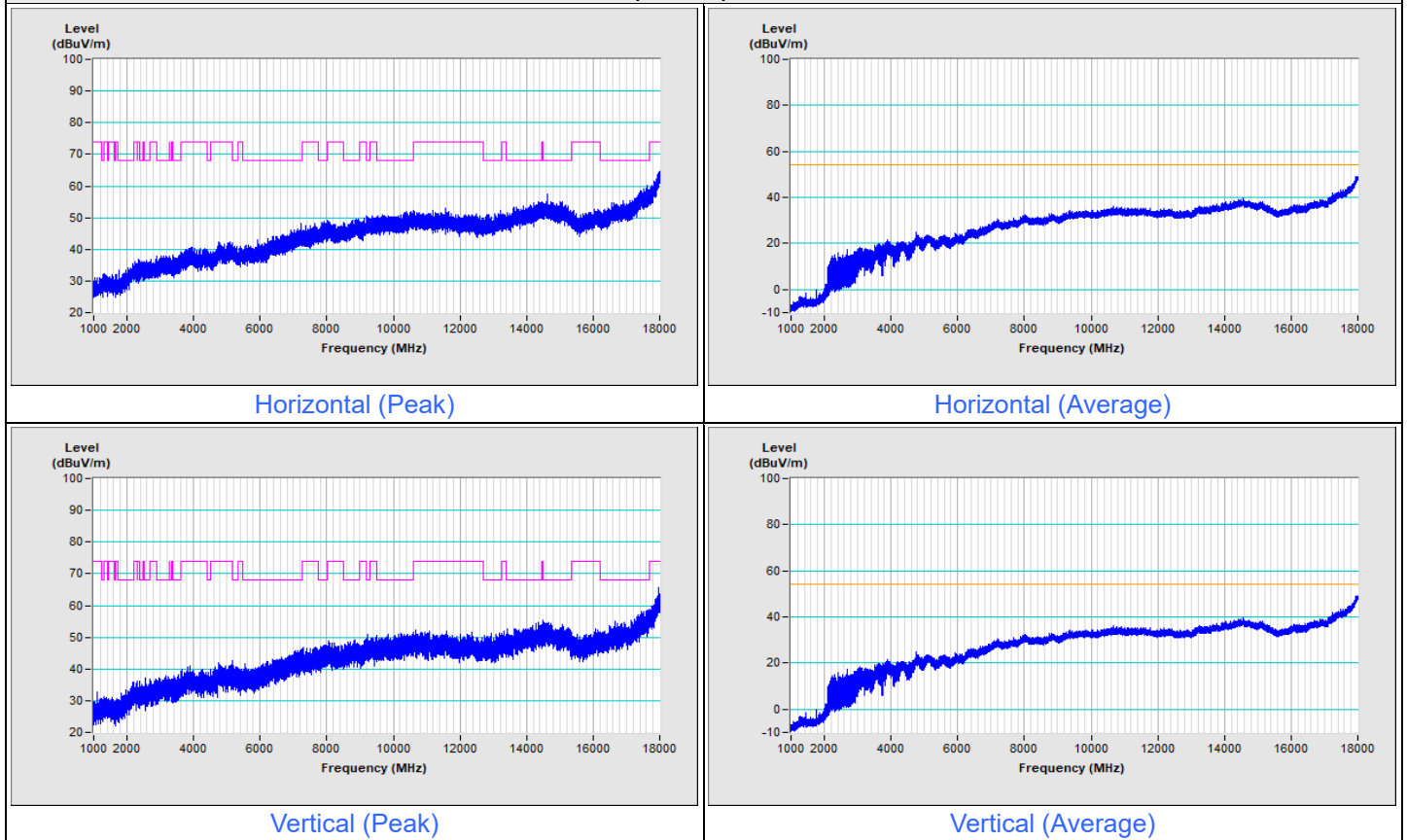


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT80) Channel 106



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

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Fax: 886-2-26051924

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Fax: 886-3-6668323

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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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