

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFCJWN-WTW-P25060383-2
FCC ID: 2AEUPBHAFL041
Product: Floodlight Cam Pro (2nd Gen)
Brand: ring
Model No.: 5CCEA3
Received Date: 2025/7/9
Test Date: 2025/7/23 ~ 2025/9/9
Issued Date: 2025/9/17
Applicant: Ring LLC
Address: 12515 Cerise Ave, Hawthorne, CA 90250, USA
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location(1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
Test Location(2): No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / 788550 / TW0003 for Test Location(1)
Designation Number: 198487 / TW2021 for Test Location(2)

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2025/9/17

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Prepared by : Pettie Chen / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCJWN-WTW-P25060383-2	Original release.	2025/9/17

1 Certificate

Product: Floodlight Cam Pro (2nd Gen)

Brand: ring

Test Model: 5CCEA3

Sample Status: Engineering sample

Applicant: Ring LLC

Test Date: 2025/7/23 ~ 2025/9/9

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

Measurement procedure: ANSI C63.10-2020

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 -15.20 dB at 0.17000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.6 dB at 55.12 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 -3.0 dB at 5725.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.55 dB
	30 MHz ~ 1 GHz	5.77 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.71 dB
	6 GHz ~ 18 GHz	5.3 dB
	18 GHz ~ 40 GHz	4.98 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	Floodlight Cam Pro (2nd Gen)
Brand	ring
Test Model	5CCEA3
Status of EUT	Engineering sample
Power Supply Rating	100-240Vac, 50/60Hz, 0.45A, 45W (From Floodlight Cam Wired Pro)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 143.4 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25
Output Power	5.18 GHz ~ 5.24 GHz: 77.625 mW (18.9 dBm), EIRP: 119.125 mW (20.76 dBm) 5.26 GHz ~ 5.32 GHz: 78.705 mW (18.96 dBm) 5.5 GHz ~ 5.72 GHz: 77.983 mW (18.92 dBm) 5.745 GHz ~ 5.825 GHz: 79.25 mW (18.99 dBm)
EUT Category	Client

Note:

1. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Item	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
BT	INPAQ	WAG-M-LA-00-098	2.93	2.4~2.4835GHz	PIFA	N/A
Wi-Fi		WAG-M-LB-00-052	2.8	2.4~2.4835GHz		
			1.86	5.15~5.25GHz		
			2.5	5.25~5.35GHz		
			2.5	5.47~5.725GHz		
			1.92	5.725~5.85GHz		

*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
802.11ac (VHT20)	1TX	1RX
802.11ax (HE20)	1TX	1RX
802.11ax (RU26/52/106/242)	1TX	1RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz, VHT mode for 20 MHz and 802.11ax mode for 20 MHz. Therefore, the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

FOR 5500 ~ 5720 MHz

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

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

FOR 5745 ~ 5825 MHz:

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

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. 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:	X-axis/ Y-axis/ Z-axis Worst Condition: X-axis

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 26-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 52-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 106-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 26-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 52-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20) 106-tone RU	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20)	144, 149, 157, 165	BPSK	MCS0
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11ax (HE20)	149	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE20)	149	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.37 ms / 1.775 ms x 100% = 77.2%, duty factor = 10 * log (1/Duty cycle) = 1.12 dB

802.11ac (VHT20): Duty cycle = 1.28 ms / 1.492 ms x 100% = 85.8%, duty factor = 10 * log (1/Duty cycle) = 0.67 dB

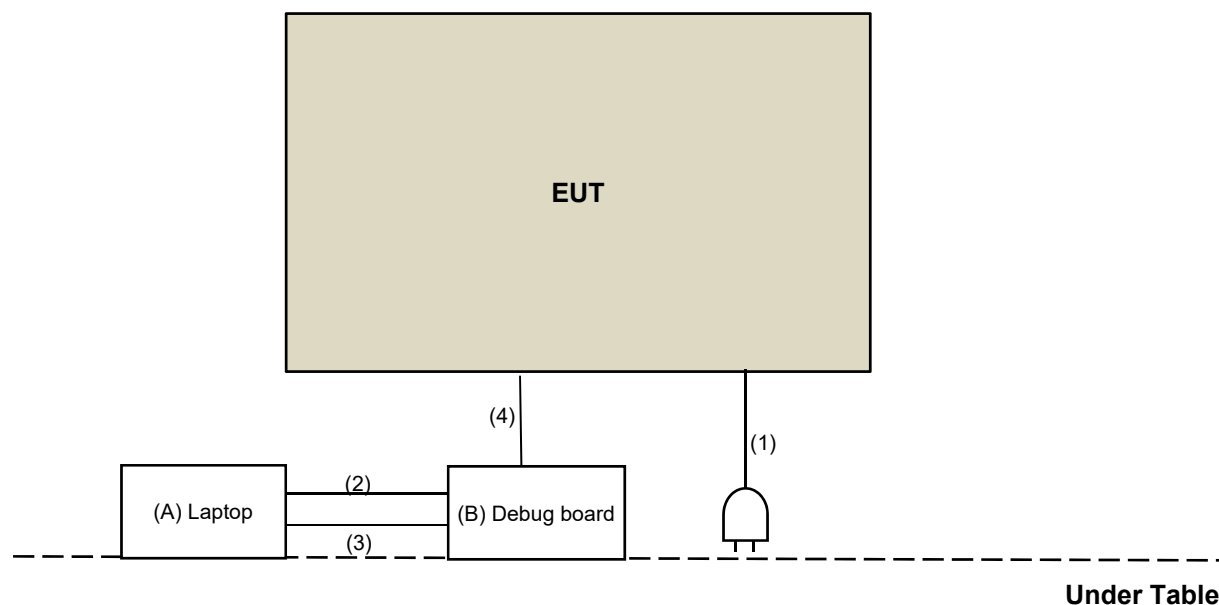
802.11ax (HE20): Duty cycle = 0.996 ms / 1.22 ms x 100% = 81.6%, duty factor = 10 * log (1/Duty cycle) = 0.88 dB



3.6 Test Program Used and Operation Descriptions

Controlling software Compliance 1.0.1.54 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	20J4 MD A003TW	PF-11H9AK	N/A	Provided by Lab
B	Debug board	FII&Ring	95.3676T00	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Power Cable	1	1	No	0	Supplied by applicant
2	Micro USB	1	1	No	0	Provided by Lab
3	Micro USB	1	2	No	0	Provided by Lab
4	FPC	1	0.4	No	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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/9/9

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
USB Power Sensor Anritsu	MA24408A	12994	2024/12/4	2025/12/3

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/9/9

4.3 Power Spectral Density

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

4.4 6 dB Bandwidth

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

4.5 Occupied Bandwidth

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

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESCI	100613	2024/11/25	2025/11/24
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2025/1/5	2026/1/4
LISN R&S	ENV216	101826	2025/3/24	2026/3/23
	ESH3-Z5	100311	2024/9/5	2025/9/4
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2025/1/5	2026/1/4
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2025/8/7 ~ 2025/8/8

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2024/10/9	2025/10/8
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
Loop Antenna TESEQ	HLA 6121	64095	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY50010158	2024/10/11	2025/10/10
Preamplifier Agilent	8447D	2944A11064	2025/2/14	2026/2/13
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2025/6/24	2026/6/23
Signal Analyzer R&S	FSV40	101544	2025/7/1	2026/6/30
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/7/29

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2025/5/22	2026/5/21
Horn Antenna EMCO	3115	00028257	2024/11/10	2025/11/9
Horn Antenna ETS-Lindgren	3117-PA	00215857	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	212	2024/10/18	2025/10/17
		BBHA9170190	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010158	2024/10/11	2025/10/10
Notch Filter Micro-Tronics	BRC50703-01	010	2025/5/22	2026/5/21
	BRM17690	005	2025/5/22	2026/5/21
Preamplifier EMCI	EMC0126545	980076	2025/2/14	2026/2/13
	EMC184045B	980175	2024/8/25	2025/8/24
		980235	2025/2/14	2026/2/13
Preamplifier HP	8449B	3008A01201	2025/2/14	2026/2/13
RF Coaxial Cable EMCI	EMC104	190801	2025/7/4	2026/7/3
		190804	2025/7/4	2026/7/3
RF Coaxial Cable EMEC	EM102-KMKM-100	02	2025/7/4	2026/7/3
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2025/7/4	2026/7/3
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
		101544	2025/7/1	2026/6/30
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/7/23 ~ 2025/7/29

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: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

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

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

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

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

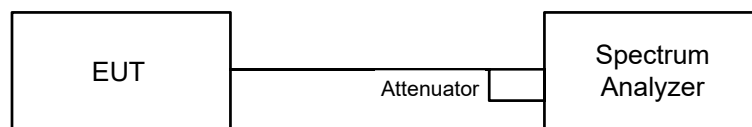
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

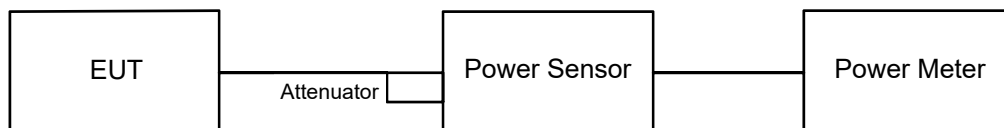


6.1.2 Test Procedure

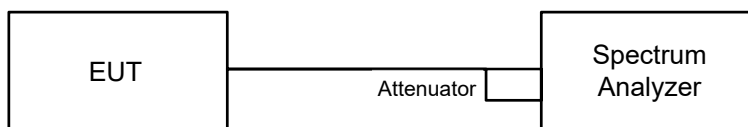
- a. Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust 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



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

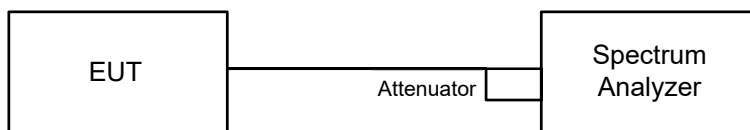
Method SA-2A

- a. Measure the duty cycle D of the transmitter output signal as described in 12.2.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 1 MHz.
- d. Set VBW $\geq$ 3 MHz.
- e. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- f. Manually set sweep time $\geq [10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
- g. Set detector = Power averaging (rms).
- h. Perform a single sweep.
- i. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- j. Add $[10 \log (1 / D)]$, where D is the duty cycle.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2

- Measure the duty cycle D of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = Power averaging (rms), if available. Otherwise, use sample detector mode.
- Do not use sweep triggering. Allow the sweep to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode;.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

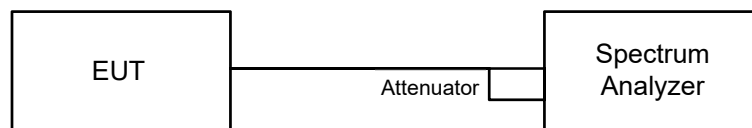
For specified measurement bandwidth 500 kHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW ≥ 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup

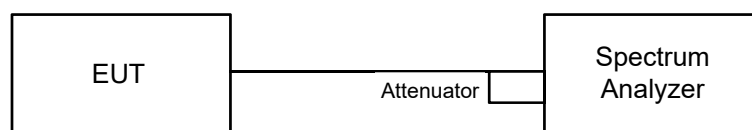


6.4.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 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 by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.5 Occupied Bandwidth

6.5.1 Test Setup



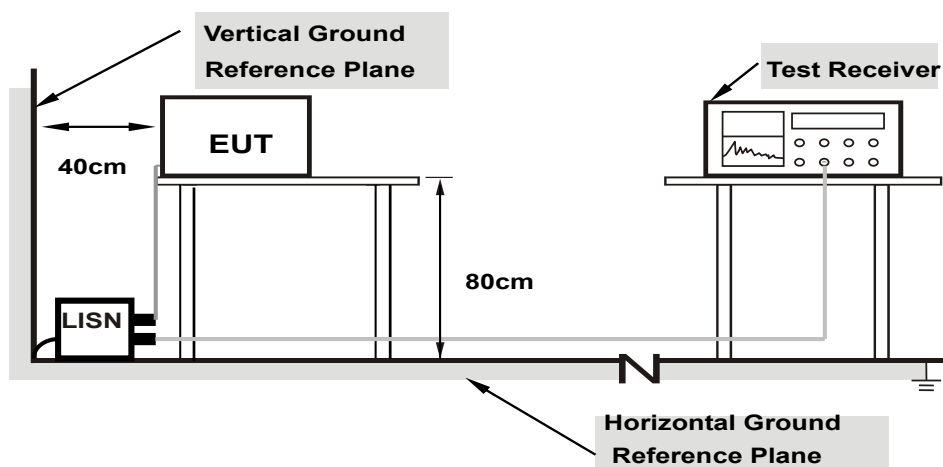
6.5.2 Test Procedure

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

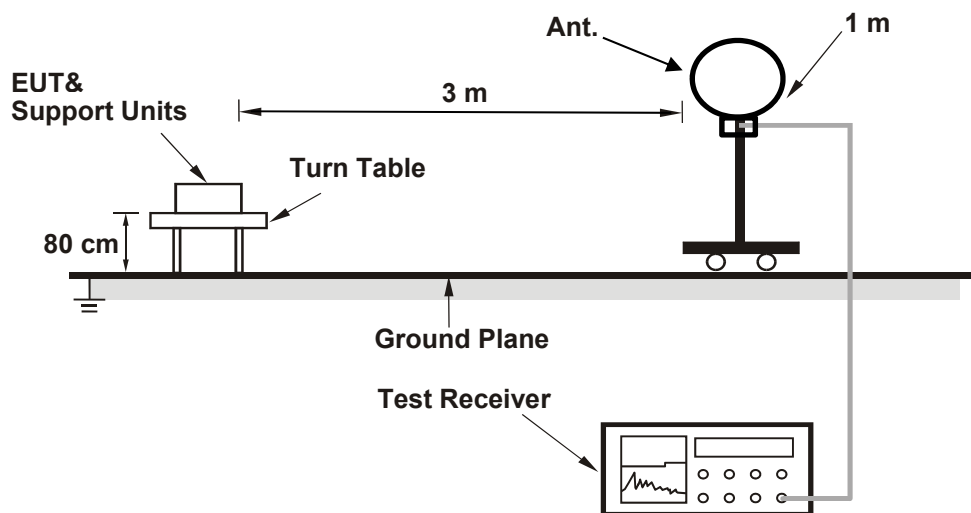
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

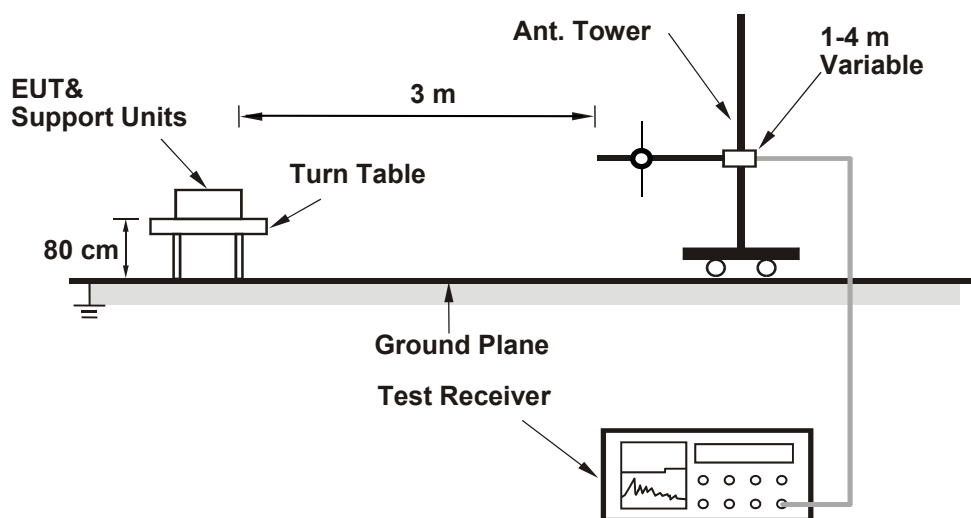
6.7 Unwanted Emissions below 1 GHz

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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

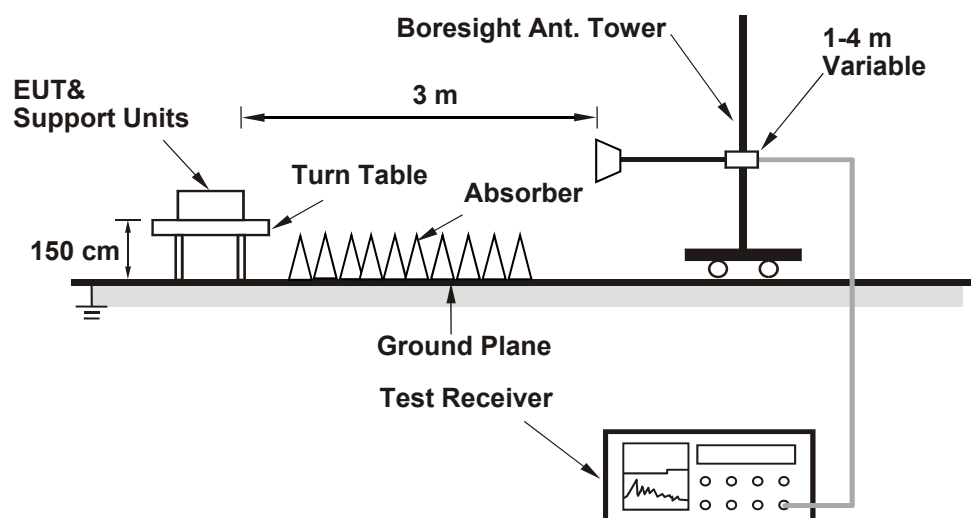
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- Generally 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, unless otherwise specified the following procedure (restricted-bands adjacent to the allocated band).
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

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

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	19.69
60	5300	19.77
64	5320	19.88
100	5500	19.67
116	5580	19.65
140	5700	19.9
144 (U-NII-2C)	5720	14.92
144 (U-NII-3)	5720	4.82

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.69	23.94	<	24
60	5300	19.77	23.96	<	24
64	5320	19.88	23.98	<	24
100	5500	19.67	23.93	<	24
116	5580	19.65	23.93	<	24
140	5700	19.90	23.98	<	24
144 (U-NII-2C)	5720	14.92	22.73	<	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	20.53
60	5300	20.57
64	5320	20.56
100	5500	20.53
116	5580	20.49
140	5700	20.51
144 (U-NII-2C)	5720	15.27
144 (U-NII-3)	5720	5.23

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.53	24.12 > 24
60	5300	20.57	24.13 > 24
64	5320	20.56	24.13 > 24
100	5500	20.53	24.12 > 24
116	5580	20.49	24.11 > 24
140	5700	20.51	24.11 > 24
144 (U-NII-2C)	5720	15.27	22.83 < 24

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

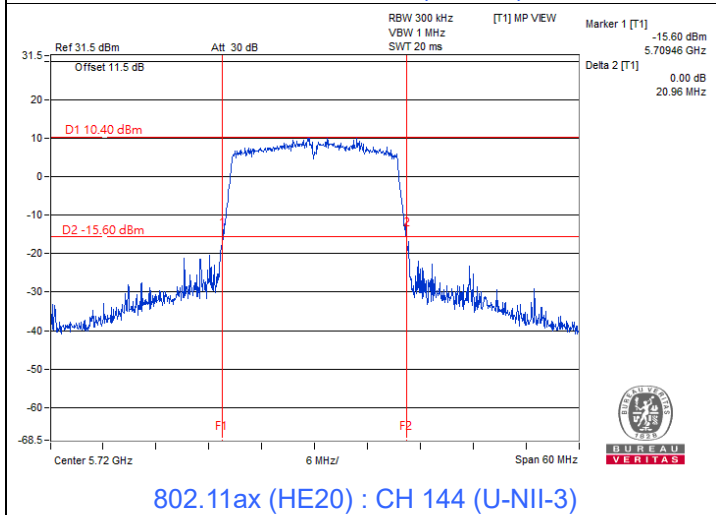
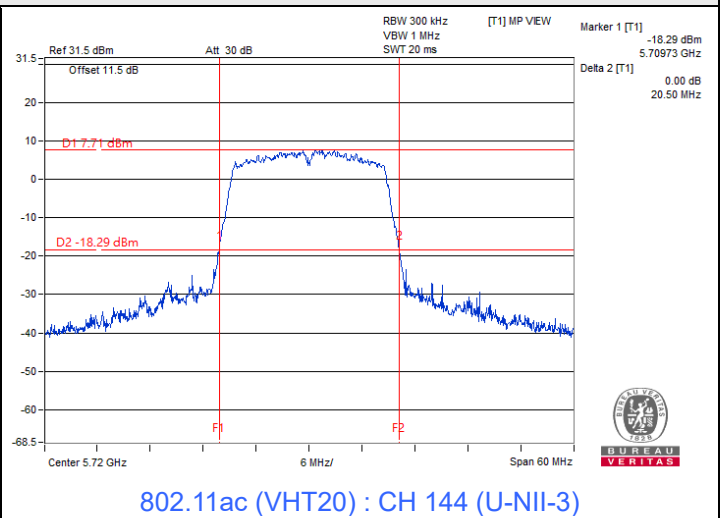
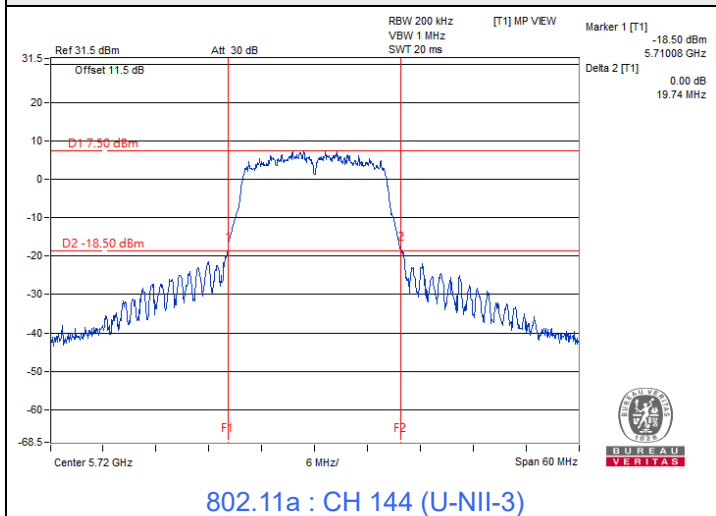
802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	20.92
60	5300	20.97
64	5320	20.99
100	5500	21.01
116	5580	20.95
140	5700	21.05
144 (U-NII-2C)	5720	15.54
144 (U-NII-3)	5720	5.42

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.92	24.2 > 24
60	5300	20.97	24.21 > 24
64	5320	20.99	24.22 > 24
100	5500	21.01	24.22 > 24
116	5580	20.95	24.21 > 24
140	5700	21.05	24.23 > 24
144 (U-NII-2C)	5720	15.54	22.91 < 24

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

Spectrum Plot of Minimum Value



Notes:

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

7.2 RF Output Power

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

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	72.946	18.63	30	1.86	111.944	20.49	21	Pass
40	5200	74.989	18.75	30	1.86	115.079	20.61	21	Pass
48	5240	77.625	18.90	30	1.86	119.125	20.76	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	72.611	18.61	23.94	Pass
60	5300	78.163	18.93	23.96	Pass
64	5320	78.705	18.96	23.98	Pass
100	5500	77.983	18.92	23.93	Pass
116	5580	72.946	18.63	23.93	Pass
140	5700	73.451	18.66	23.98	Pass
*144 (U-NII-2C)	5720	73.702	18.67	22.73	Pass
*144 (U-NII-3)	5720	10.653	10.27	30	Pass
149	5745	74.817	18.74	30	Pass
157	5785	73.79	18.68	30	Pass
165	5825	78.524	18.95	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 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)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	76.56	18.84	30	1.86	117.49	20.7	21	Pass
40	5200	74.302	18.71	30	1.86	114.025	20.57	21	Pass
48	5240	71.779	18.56	30	1.86	110.153	20.42	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	74.989	18.75	24	Pass
60	5300	72.444	18.60	24	Pass
64	5320	71.779	18.56	24	Pass
100	5500	72.444	18.60	24	Pass
116	5580	74.817	18.74	24	Pass
140	5700	59.979	17.78	24	Pass
*144 (U-NII-2C)	5720	62.167	17.94	22.83	Pass
*144 (U-NII-3)	5720	10.979	10.41	30	Pass
149	5745	78.886	18.97	30	Pass
157	5785	76.208	18.82	30	Pass
165	5825	72.946	18.63	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	77.09	18.87	30	1.86	118.304	20.73	21	Pass
40	5200	74.817	18.74	30	1.86	114.815	20.6	21	Pass
48	5240	72.111	18.58	30	1.86	110.663	20.44	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	76.033	18.81	24	Pass
60	5300	72.946	18.63	24	Pass
64	5320	72.277	18.59	24	Pass
100	5500	72.778	18.62	24	Pass
116	5580	75.336	18.77	24	Pass
140	5700	60.674	17.83	24	Pass
*144 (U-NII-2C)	5720	67.468	18.29	22.91	Pass
*144 (U-NII-3)	5720	11.779	10.71	30	Pass
149	5745	79.25	18.99	30	Pass
157	5785	76.913	18.86	30	Pass
165	5825	73.451	18.66	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	12.677	11.03	30	1.86	19.454	12.89	21	Pass
40	5200	12.735	11.05	30	1.86	19.543	12.91	21	Pass
48	5240	12.764	11.06	30	1.86	19.588	12.92	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	12.823	11.08	24	Pass
60	5300	12.794	11.07	24	Pass
64	5320	12.735	11.05	24	Pass
100	5500	12.853	11.09	24	Pass
116	5580	12.735	11.05	24	Pass
140	5700	12.706	11.04	24	Pass
*144 (U-NII-2C)	5720	7.501	8.75	22.91	Pass
*144 (U-NII-3)	5720	6.872	8.37	30	Pass
149	5745	8.222	9.15	30	Pass
157	5785	8.185	9.13	30	Pass
165	5825	8.166	9.12	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	25.293	14.03	30	1.86	38.815	15.89	21	Pass
40	5200	25.41	14.05	30	1.86	38.995	15.91	21	Pass
48	5240	25.763	14.11	30	1.86	39.536	15.97	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	25.468	14.06	24	Pass
60	5300	25.586	14.08	24	Pass
64	5320	25.823	14.12	24	Pass
100	5500	25.468	14.06	24	Pass
116	5580	25.704	14.10	24	Pass
140	5700	25.586	14.08	24	Pass
*144 (U-NII-2C)	5720	15.035	11.77	22.91	Pass
*144 (U-NII-3)	5720	13.555	11.32	30	Pass
149	5745	16.406	12.15	30	Pass
157	5785	16.331	12.13	30	Pass
165	5825	16.144	12.08	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

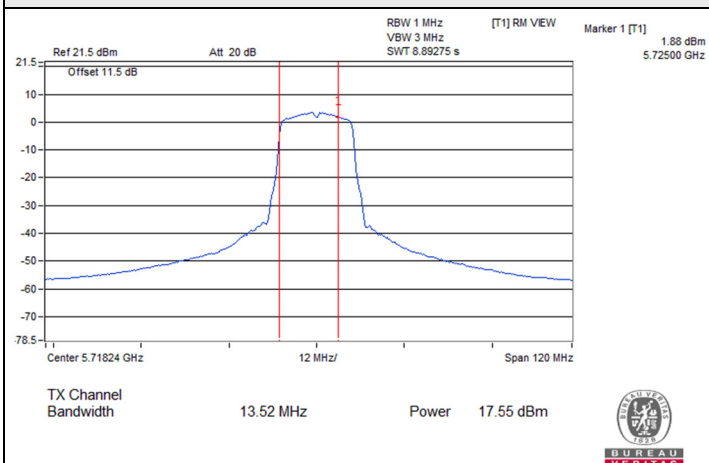
Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Above 30 Deg. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
36	5180	51.523	17.12	30	1.86	79.068	18.98	21	Pass
40	5200	50.816	17.06	30	1.86	77.983	18.92	21	Pass
48	5240	51.523	17.12	30	1.86	79.068	18.98	21	Pass

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
52	5260	51.404	17.11	24	Pass
60	5300	51.05	17.08	24	Pass
64	5320	50.816	17.06	24	Pass
100	5500	50.933	17.07	24	Pass
116	5580	51.05	17.08	24	Pass
140	5700	51.168	17.09	24	Pass
*144 (U-NII-2C)	5720	39.82	16.00	22.91	Pass
*144 (U-NII-3)	5720	22.29	13.48	30	Pass
149	5745	25.763	14.11	30	Pass
157	5785	25.882	14.13	30	Pass
165	5825	25.645	14.09	30	Pass

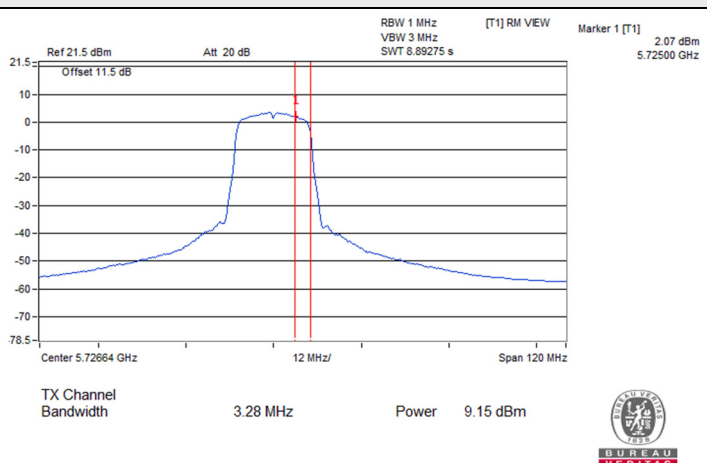
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

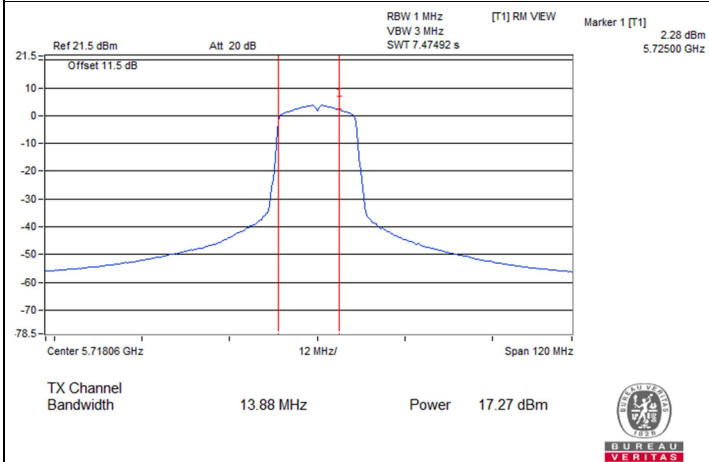
Spectrum Plot for channel straddling



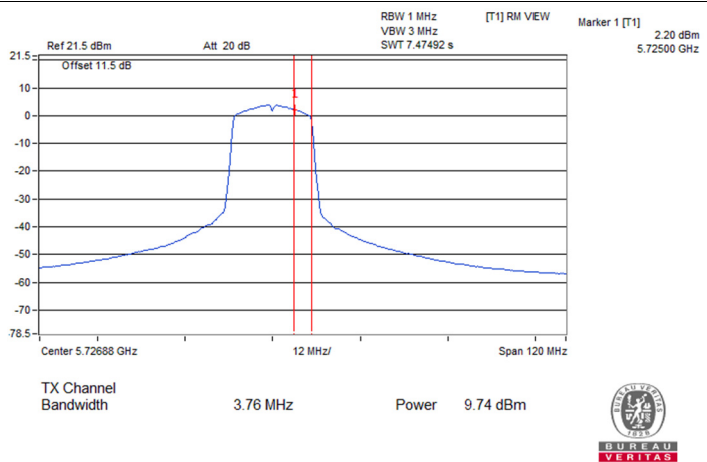
802.11a : CH 144 (U-NII-2C)



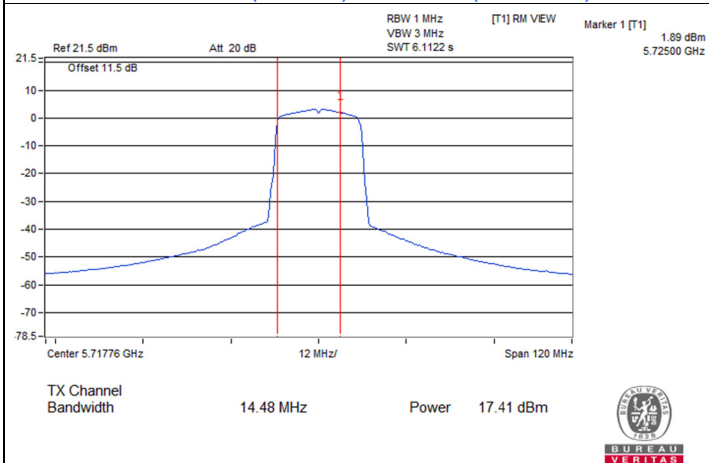
802.11a : CH 144 (U-NII-3)



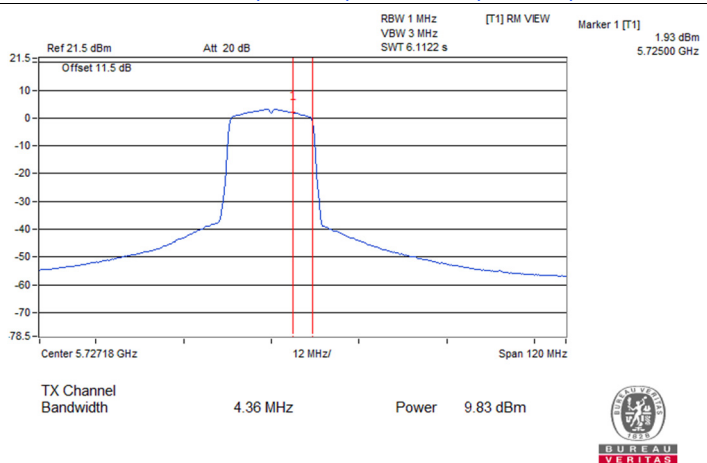
802.11ac (VHT20) : CH 144 (U-NII-2C)



802.11ac (VHT20) : CH 144 (U-NII-3)

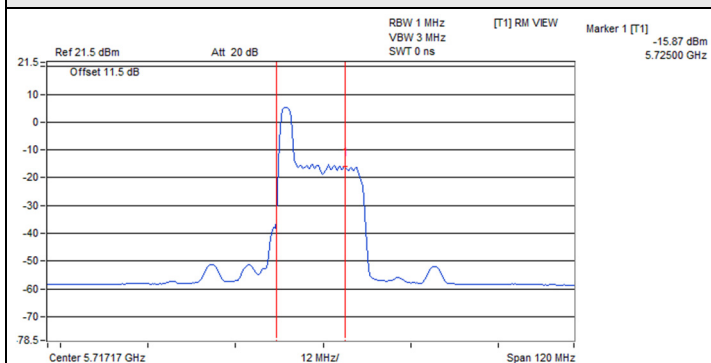


802.11ax (HE20) : CH 144 (U-NII-2C)

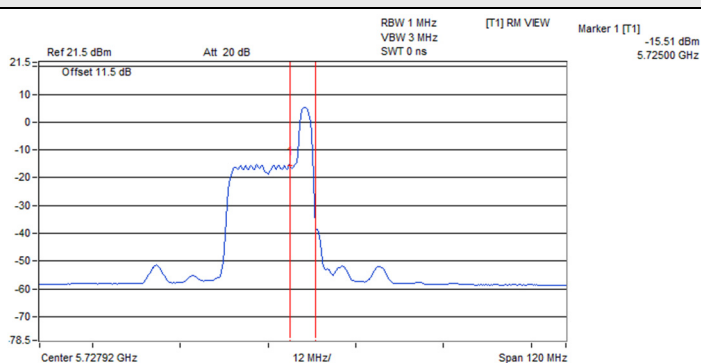


802.11ax (HE20) : CH 144 (U-NII-3)

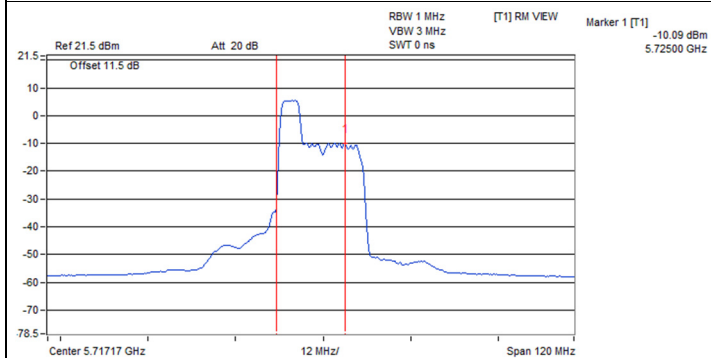
Spectrum Plot for channel straddling



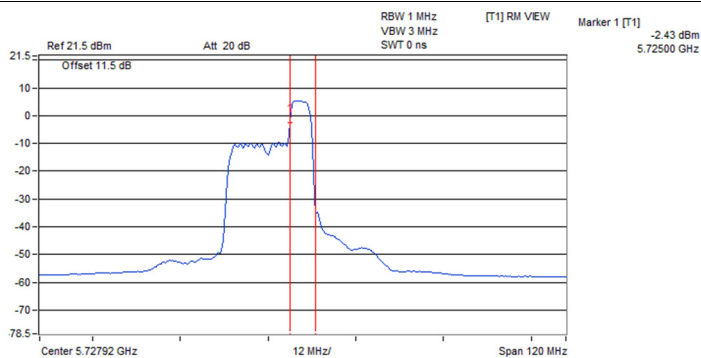
802.11ax (HE20) 26-tone RU : CH 144 (U-NII-2C)



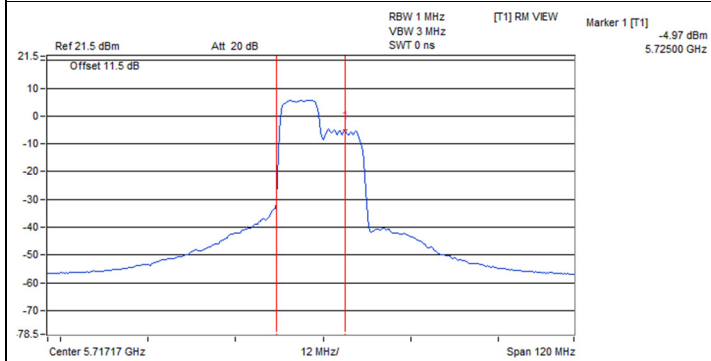
802.11ax (HE20) 26-tone RU : CH 144 (U-NII-3)



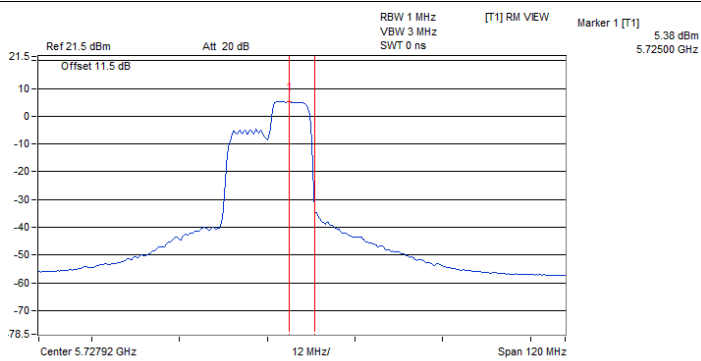
802.11ax (HE20) 52-tone RU : CH 144 (U-NII-2C)



802.11ax (HE20) 52-tone RU : CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU : CH 144 (U-NII-2C)



802.11ax (HE20) 106-tone RU : CH 144 (U-NII-3)

7.3 Power Spectral Density

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

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.14	1.12	6.26	17	Pass
40	5200	5.21	1.12	6.33	17	Pass
48	5240	5.28	1.12	6.40	17	Pass
52	5260	5.10	1.12	6.22	11	Pass
60	5300	5.32	1.12	6.44	11	Pass
64	5320	5.32	1.12	6.44	11	Pass
100	5500	5.36	1.12	6.48	11	Pass
116	5580	5.12	1.12	6.24	11	Pass
140	5700	5.18	1.12	6.30	11	Pass
144 (U-NII-2C)	5720	5.14	1.12	6.26	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.22	0.67	5.89	17	Pass
40	5200	5.06	0.67	5.73	17	Pass
48	5240	5.01	0.67	5.68	17	Pass
52	5260	5.09	0.67	5.76	11	Pass
60	5300	4.94	0.67	5.61	11	Pass
64	5320	5.06	0.67	5.73	11	Pass
100	5500	4.98	0.67	5.65	11	Pass
116	5580	5.03	0.67	5.70	11	Pass
140	5700	4.70	0.67	5.37	11	Pass
144 (U-NII-2C)	5720	5.16	0.67	5.83	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.28	0.88	6.16	17	Pass
40	5200	5.18	0.88	6.06	17	Pass
48	5240	4.95	0.88	5.83	17	Pass
52	5260	5.14	0.88	6.02	11	Pass
60	5300	5.06	0.88	5.94	11	Pass
64	5320	4.92	0.88	5.80	11	Pass
100	5500	5.05	0.88	5.93	11	Pass
116	5580	5.12	0.88	6.00	11	Pass
140	5700	4.85	0.88	5.73	11	Pass
144 (U-NII-2C)	5720	5.26	0.88	6.14	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	4.88	0.88	5.76	17	Pass
40	5200	5.05	0.88	5.93	17	Pass
48	5240	4.90	0.88	5.78	17	Pass
52	5260	5.02	0.88	5.90	11	Pass
60	5300	5.00	0.88	5.88	11	Pass
64	5320	4.82	0.88	5.70	11	Pass
100	5500	4.86	0.88	5.74	11	Pass
116	5580	5.12	0.88	6.00	11	Pass
140	5700	4.82	0.88	5.70	11	Pass
144 (U-NII-2C)	5720	5.23	0.88	6.11	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.22	0.88	6.10	17	Pass
40	5200	4.95	0.88	5.83	17	Pass
48	5240	4.92	0.88	5.80	17	Pass
52	5260	5.02	0.88	5.90	11	Pass
60	5300	4.87	0.88	5.75	11	Pass
64	5320	4.81	0.88	5.69	11	Pass
100	5500	4.80	0.88	5.68	11	Pass
116	5580	4.74	0.88	5.62	11	Pass
140	5700	4.72	0.88	5.60	11	Pass
144 (U-NII-2C)	5720	5.13	0.88	6.01	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.15	0.88	6.03	17	Pass
40	5200	5.14	0.88	6.02	17	Pass
48	5240	4.77	0.88	5.65	17	Pass
52	5260	4.99	0.88	5.87	11	Pass
60	5300	4.93	0.88	5.81	11	Pass
64	5320	4.86	0.88	5.74	11	Pass
100	5500	4.98	0.88	5.86	11	Pass
116	5580	5.00	0.88	5.88	11	Pass
140	5700	4.41	0.88	5.29	11	Pass
144 (U-NII-2C)	5720	5.01	0.88	5.89	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 1.86 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.5 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-6.75	1.12	-3.41	30	Pass
149	5745	-4.51	1.12	-1.17	30	Pass
157	5785	-4.78	1.12	-1.44	30	Pass
165	5825	-4.48	1.12	-1.14	30	Pass

Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-6.17	0.67	-3.28	30	Pass
149	5745	-4.3	0.67	-1.41	30	Pass
157	5785	-4.31	0.67	-1.42	30	Pass
165	5825	-4.76	0.67	-1.87	30	Pass

Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-7.21	0.88	-4.11	30	Pass
149	5745	-5.44	0.88	-2.34	30	Pass
157	5785	-5.56	0.88	-2.46	30	Pass
165	5825	-5.96	0.88	-2.86	30	Pass

Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-3.85	0.88	-0.75	30	Pass
149	5745	-5.5	0.88	-2.40	30	Pass
157	5785	-5.68	0.88	-2.58	30	Pass
165	5825	-6.16	0.88	-3.06	30	Pass

Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-3.43	0.88	-0.33	30	Pass
149	5745	-5.69	0.88	-2.59	30	Pass
157	5785	-5.81	0.88	-2.71	30	Pass
165	5825	-6.02	0.88	-2.92	30	Pass

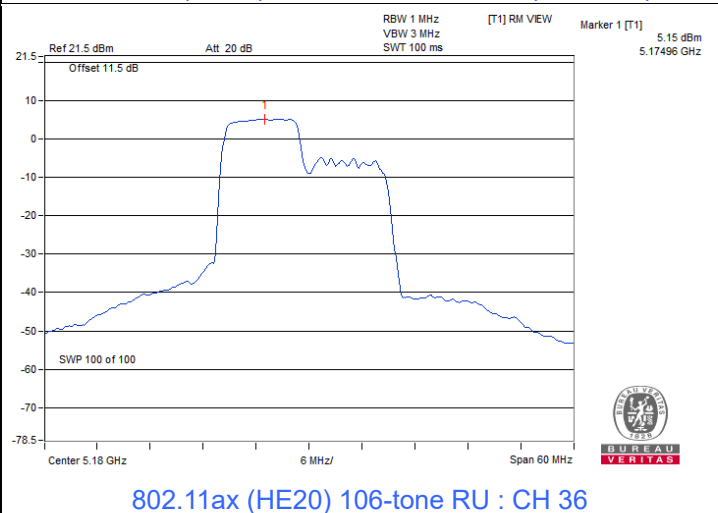
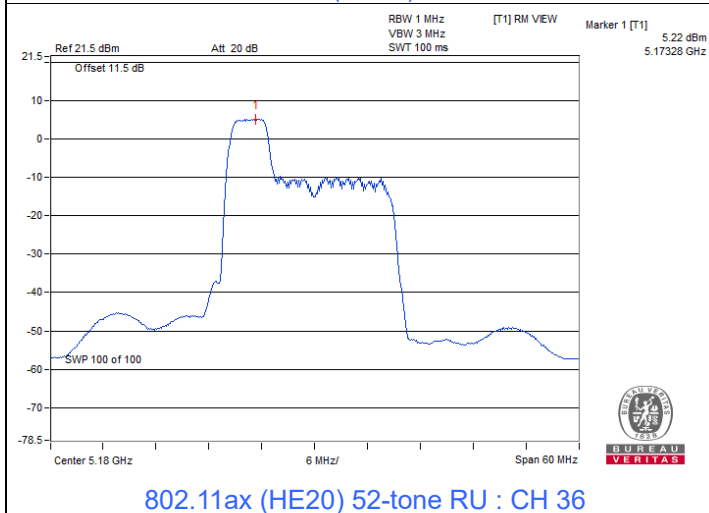
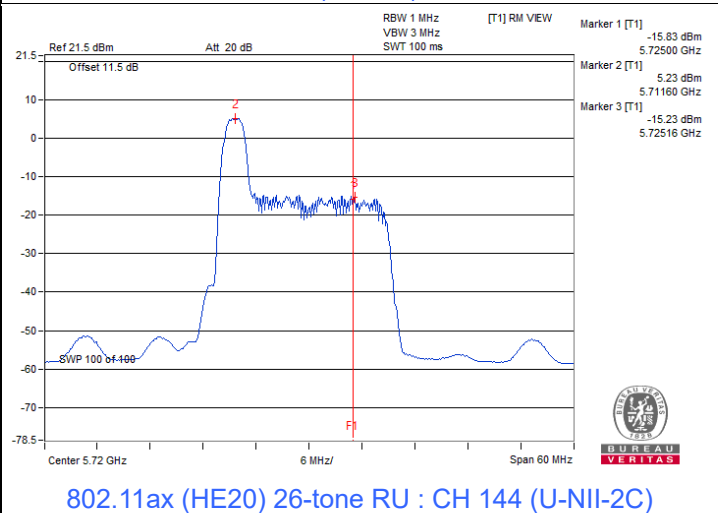
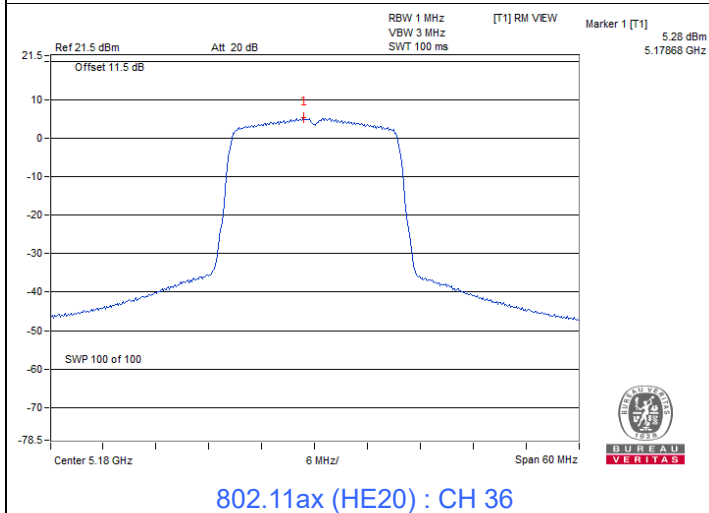
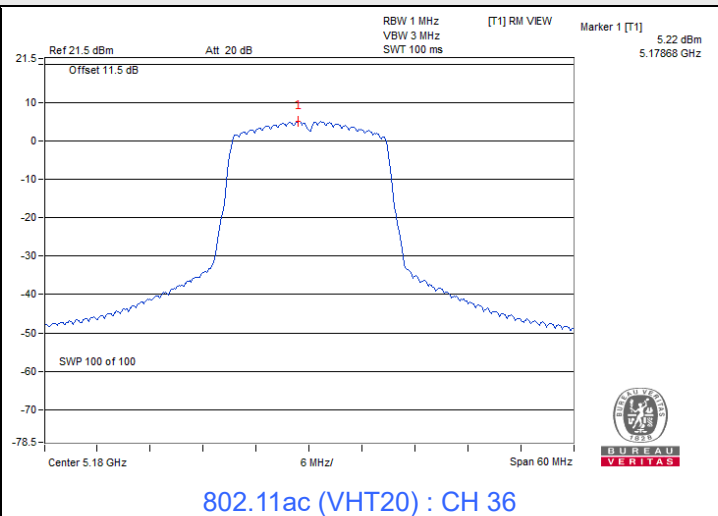
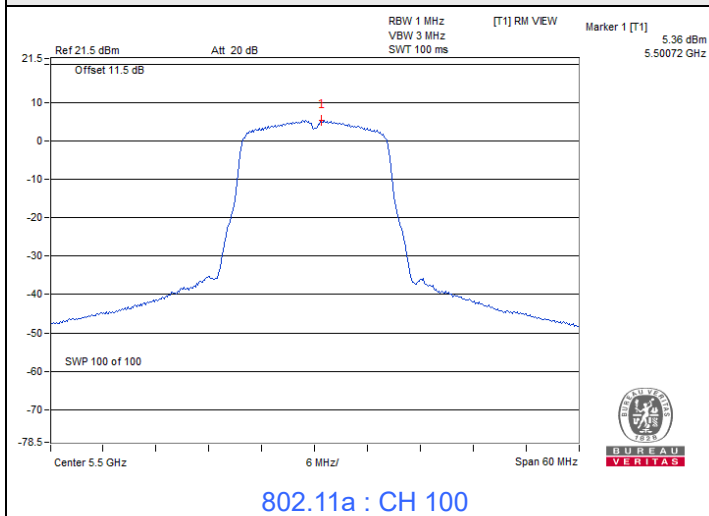
Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

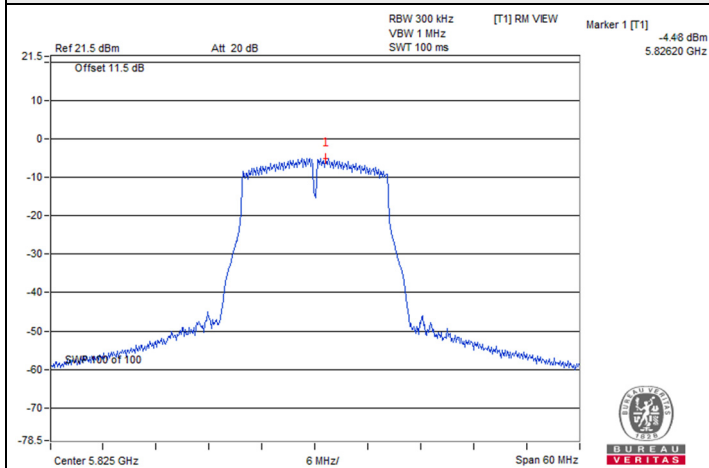
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-2.78	0.88	0.32	30	Pass
149	5745	-5.82	0.88	-2.72	30	Pass
157	5785	-5.59	0.88	-2.49	30	Pass
165	5825	-5.97	0.88	-2.87	30	Pass

Note: For U-NII-3, the antenna gain is 1.92 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

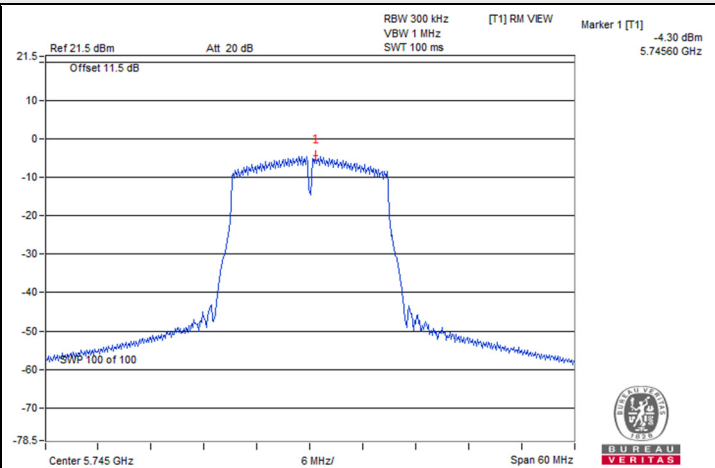
Spectrum Plot of Maximum Value



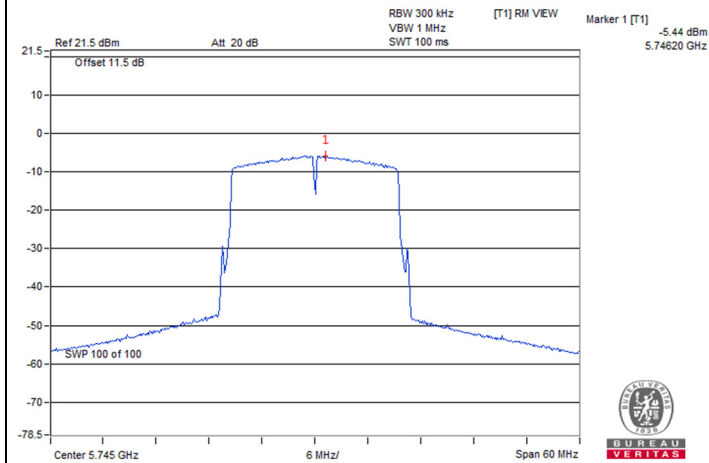
Spectrum Plot of Maximum Value



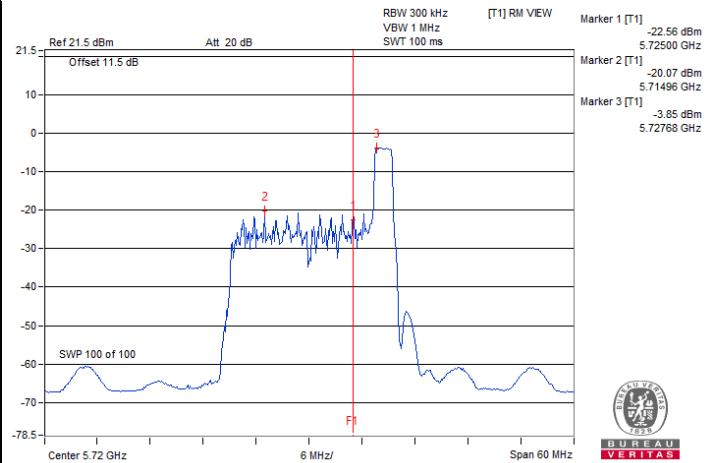
802.11a : CH 165



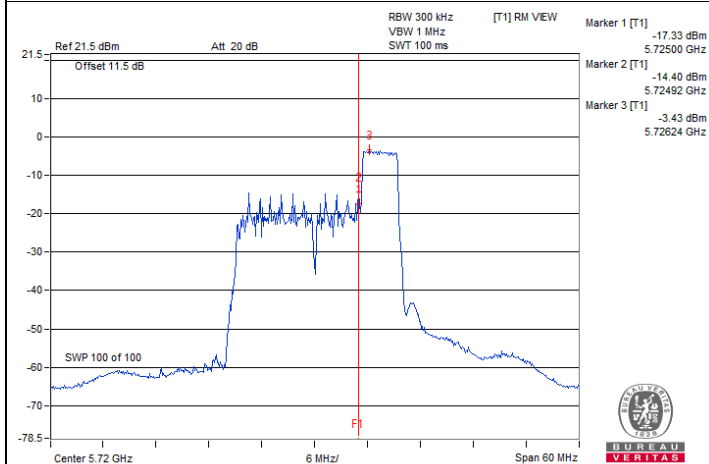
802.11ac (VHT20) : CH 149



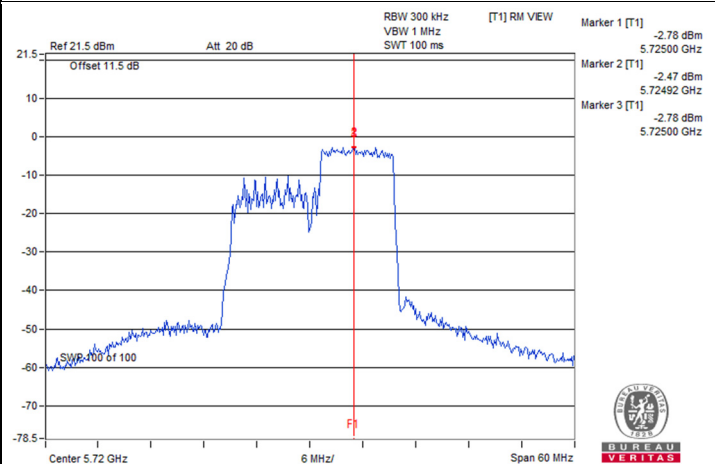
802.11ax (HE20) : CH 149



802.11ax (HE20) 26-tone RU : CH 144 (U-NII-3)



802.11ax (HE20) 52-tone RU : CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU : CH 144 (U-NII-3)

7.4 6 dB Bandwidth

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.64	0.5	Pass
149	5745	15.28	0.5	Pass
157	5785	15.28	0.5	Pass
165	5825	15.29	0.5	Pass

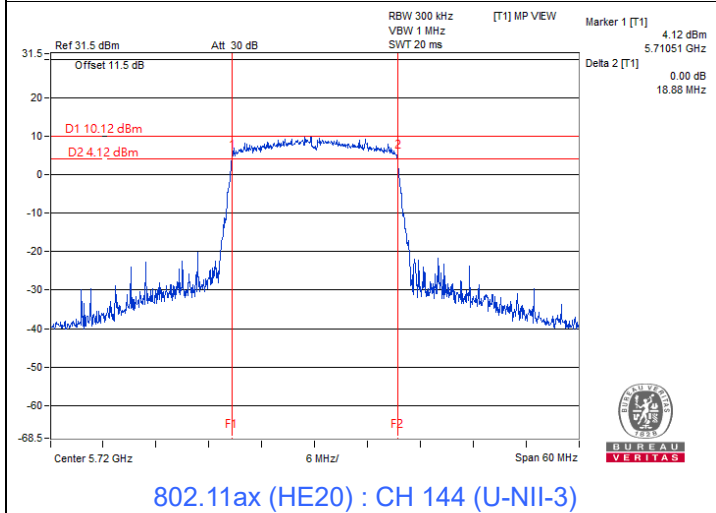
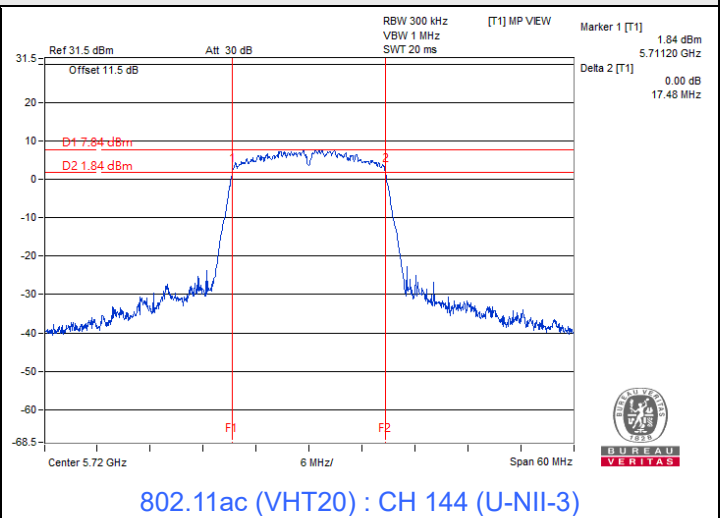
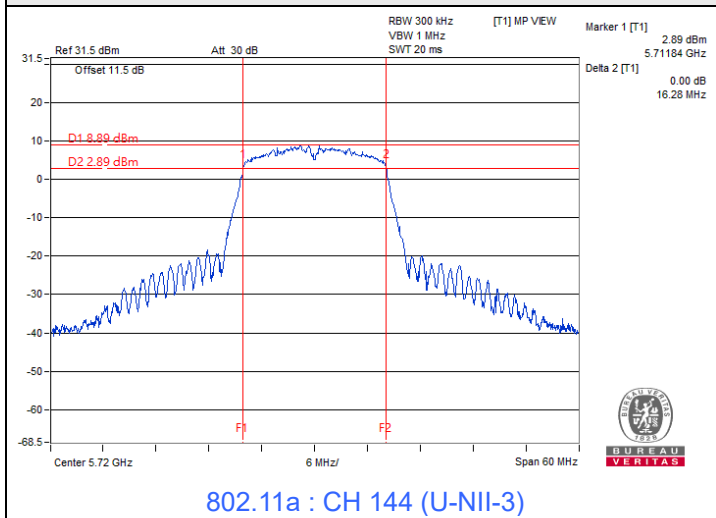
802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.65	0.5	Pass
149	5745	15.27	0.5	Pass
157	5785	15.29	0.5	Pass
165	5825	15.27	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	4.33	0.5	Pass
149	5745	18.56	0.5	Pass
157	5785	18.6	0.5	Pass
165	5825	18.61	0.5	Pass

Spectrum Plot of Minimum Value



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

7.5 Occupied Bandwidth

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

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.8
40	5200	16.68
48	5240	16.68
52	5260	16.68
60	5300	16.8
64	5320	16.8
100	5500	16.8
116	5580	16.68
140	5700	16.8
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	3.28
149	5745	16.68
157	5785	16.8
165	5825	16.68

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.64
40	5200	17.64
48	5240	17.64
52	5260	17.64
60	5300	17.64
64	5320	17.64
100	5500	17.64
116	5580	17.64
140	5700	17.64
144 (U-NII-2C)	5720	13.88
144 (U-NII-3)	5720	3.76
149	5745	17.64
157	5785	17.64
165	5825	17.64

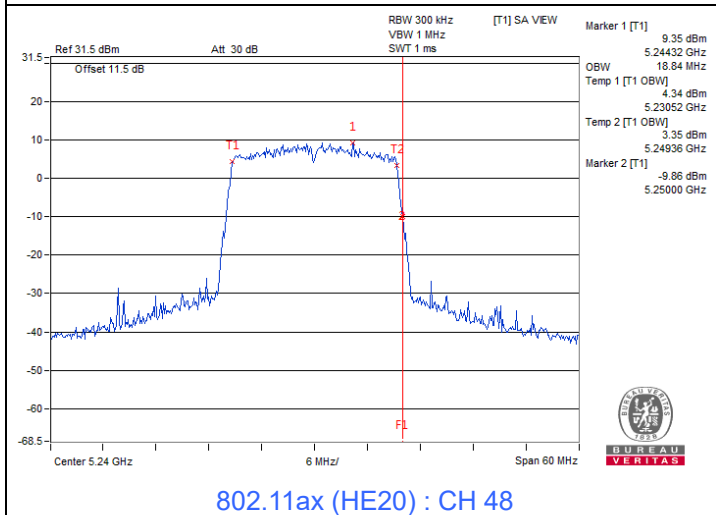
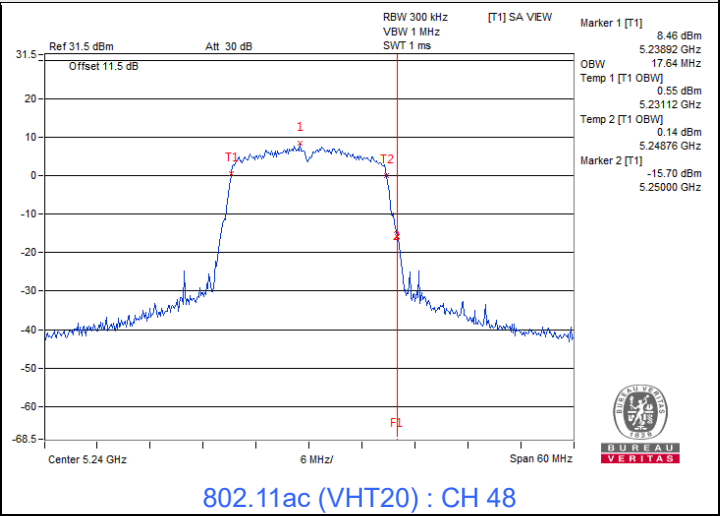
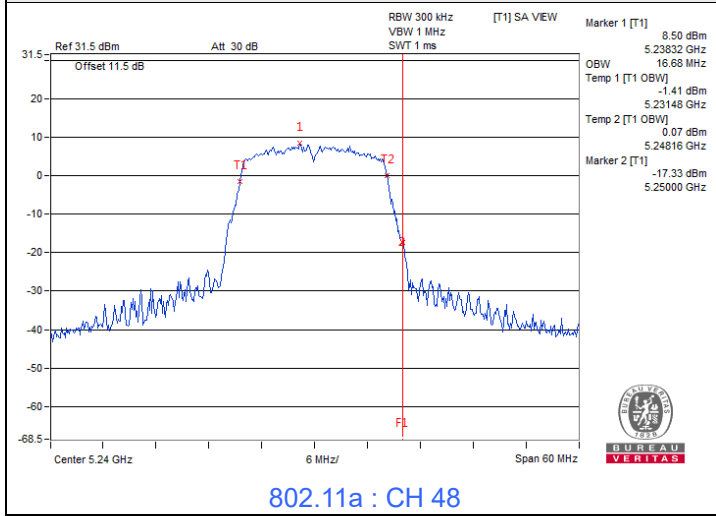
802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.96
40	5200	18.84
48	5240	18.84
52	5260	18.84
60	5300	18.84
64	5320	18.96
100	5500	18.84
116	5580	18.96
140	5700	18.84
144 (U-NII-2C)	5720	14.48
144 (U-NII-3)	5720	4.36
149	5745	18.84
157	5785	18.84
165	5825	18.96

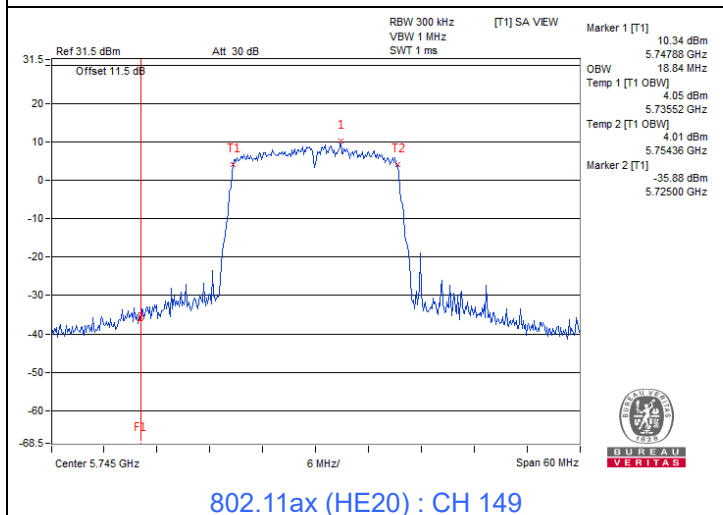
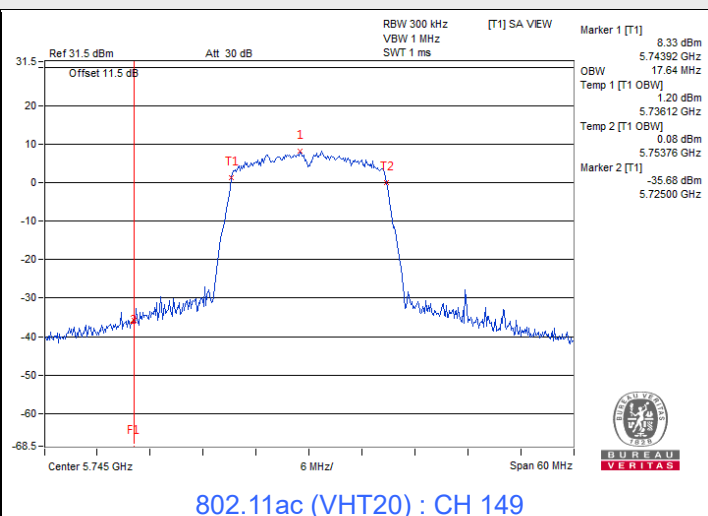
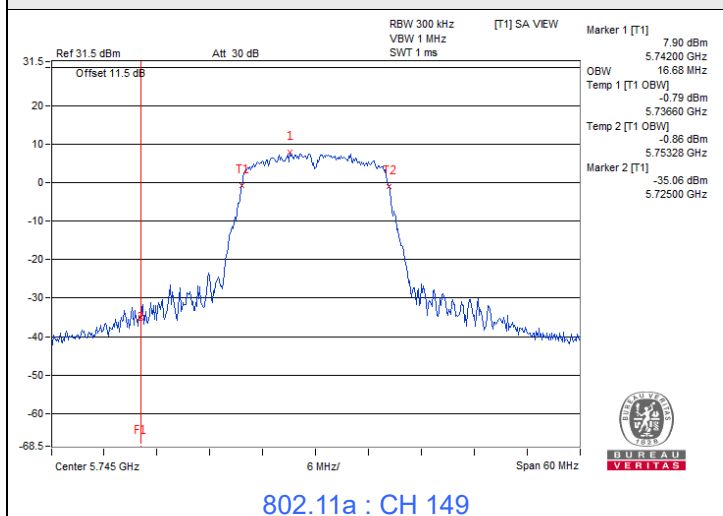
Spectrum Plot of Maximum Value



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



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



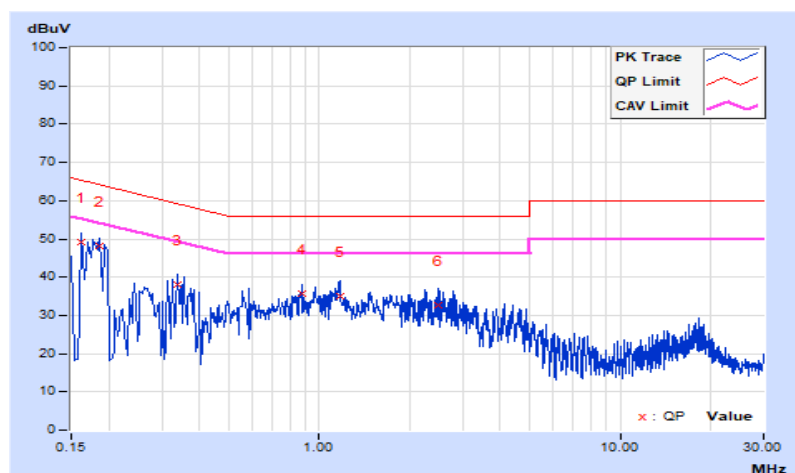
7.6 AC Power Conducted Emissions

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

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	0.16200	9.69	39.53	22.83	49.22	32.52	65.36	55.36	-16.14	-22.84
2	0.18600	9.70	38.34	24.85	48.04	34.55	64.21	54.21	-16.17	-19.66
3	0.33800	9.72	28.18	10.36	37.90	20.08	59.25	49.25	-21.35	-29.17
4	0.87800	9.78	25.85	11.88	35.63	21.66	56.00	46.00	-20.37	-24.34
5	1.17400	9.79	25.26	10.71	35.05	20.50	56.00	46.00	-20.95	-25.50
6	2.49000	9.80	22.85	10.17	32.65	19.97	56.00	46.00	-23.35	-26.03

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

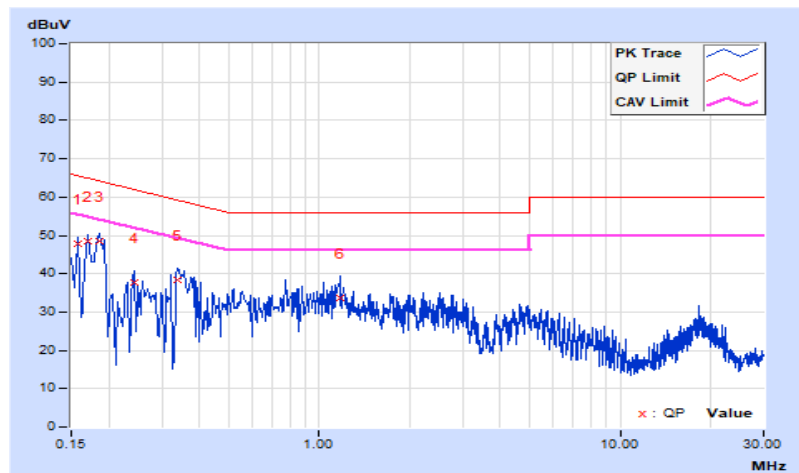


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Greg Lin		

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	0.15800	9.66	38.01	21.83	47.67	31.49	65.57	55.57	-17.90	-24.08
2	0.17000	9.66	38.92	30.10	48.58	39.76	64.96	54.96	-16.38	-15.20
3	0.18568	9.66	38.89	25.06	48.55	34.72	64.23	54.23	-15.68	-19.51
4	0.24200	9.67	27.97	9.52	37.64	19.19	62.03	52.03	-24.39	-32.84
5	0.33767	9.71	28.66	11.34	38.37	21.05	59.26	49.26	-20.89	-28.21
6	1.17800	9.81	23.96	9.70	33.77	19.51	56.00	46.00	-22.23	-26.49

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



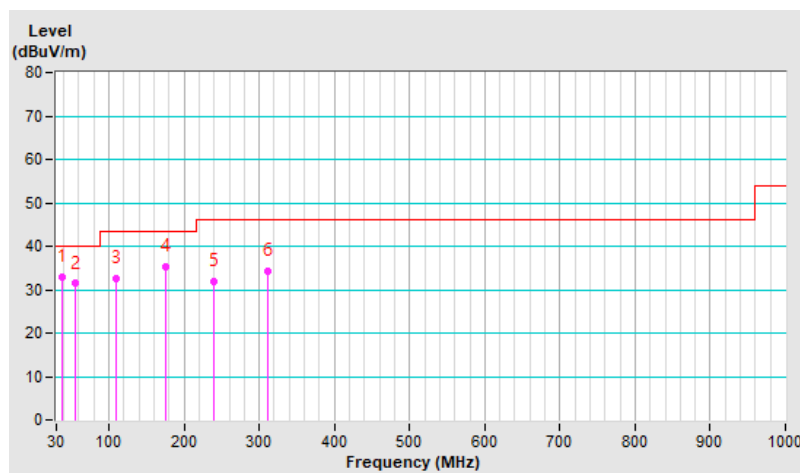
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.95	33.0 QP	40.0	-7.0	1.10 H	63	42.7	-9.7
2	55.70	31.4 QP	40.0	-8.6	1.24 H	29	40.2	-8.8
3	108.91	32.6 QP	43.5	-10.9	1.38 H	360	44.3	-11.7
4	175.35	35.3 QP	43.5	-8.2	1.56 H	98	43.8	-8.5
5	239.23	31.9 QP	46.0	-14.1	1.67 H	349	40.5	-8.6
6	310.81	34.2 QP	46.0	-11.8	1.06 H	141	39.5	-5.3

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 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.

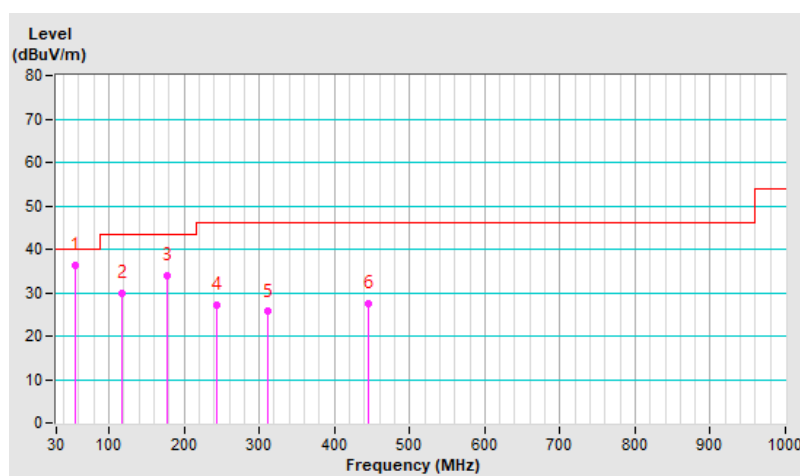


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.12	36.4 QP	40.0	-3.6	1.69 V	17	45.3	-8.9
2	117.11	30.0 QP	43.5	-13.5	1.35 V	333	40.8	-10.8
3	178.12	33.9 QP	43.5	-9.6	1.48 V	238	42.7	-8.8
4	242.53	27.2 QP	46.0	-18.8	1.73 V	306	35.5	-8.3
5	310.81	25.6 QP	46.0	-20.4	1.94 V	360	30.9	-5.3
6	446.08	27.5 QP	46.0	-18.5	1.27 V	104	29.8	-2.3

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.6 PK	74.0	-15.4	2.11 H	284	50.8	7.8
2	5150.00	47.2 AV	54.0	-6.8	2.11 H	284	39.4	7.8
3	*5180.00	103.3 PK			2.11 H	284	95.3	8.0
4	*5180.00	94.8 AV			2.11 H	284	86.8	8.0
5	#10360.00	55.6 PK	68.2	-12.6	1.58 H	236	39.0	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	3.59 V	94	51.1	7.8
2	5150.00	47.5 AV	54.0	-6.5	3.59 V	94	39.7	7.8
3	*5180.00	107.0 PK			3.59 V	94	98.9	8.1
4	*5180.00	98.2 AV			3.59 V	94	90.1	8.1
5	#10360.00	56.3 PK	68.2	-11.9	2.86 V	157	39.3	17.0

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	103.1 PK			1.37 H	130	95.0	8.1
2	*5200.00	94.6 AV			1.37 H	130	86.5	8.1
3	#10400.00	55.4 PK	68.2	-12.8	2.32 H	82	38.7	16.7
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	*5200.00	106.5 PK			3.56 V	94	98.3	8.2
2	*5200.00	98.5 AV			3.56 V	94	90.3	8.2
3	#10400.00	56.0 PK	68.2	-12.2	2.12 V	3	39.0	17.0

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.5 PK			1.46 H	75	96.0	8.5
2	*5240.00	96.3 AV			1.46 H	75	87.8	8.5
3	5350.00	59.1 PK	74.0	-14.9	1.46 H	75	50.1	9.0
4	5350.00	47.2 AV	54.0	-6.8	1.46 H	75	38.2	9.0
5	#10480.00	56.3 PK	68.2	-11.9	2.23 H	27	39.9	16.4
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	107.7 PK			3.49 V	94	99.2	8.5
2	*5240.00	99.1 AV			3.49 V	94	90.6	8.5
3	5350.00	59.4 PK	74.0	-14.6	3.49 V	94	50.4	9.0
4	5350.00	47.5 AV	54.0	-6.5	3.49 V	94	38.5	9.0
5	#10480.00	57.6 PK	68.2	-10.6	2.21 V	6	40.3	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	802.11a	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.4 PK	74.0	-15.6	1.45 H	166	50.6	7.8
2	5150.00	47.0 AV	54.0	-7.0	1.45 H	166	39.2	7.8
3	*5260.00	105.8 PK			1.45 H	166	97.0	8.8
4	*5260.00	97.3 AV			1.45 H	166	88.5	8.8
5	#10520.00	57.3 PK	68.2	-10.9	2.24 H	118	40.8	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	5150.00	58.7 PK	74.0	-15.3	3.27 V	6	50.9	7.8
2	5150.00	47.3 AV	54.0	-6.7	3.27 V	6	39.5	7.8
3	*5260.00	107.1 PK			3.27 V	6	98.3	8.8
4	*5260.00	98.2 AV			3.27 V	6	89.4	8.8
5	#10520.00	57.7 PK	68.2	-10.5	3.52 V	39	41.2	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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	105.3 PK			1.18 H	260	96.3	9.0
2	*5300.00	96.8 AV			1.18 H	260	87.8	9.0
3	10600.00	57.0 PK	74.0	-17.0	2.13 H	21	40.7	16.3
4	10600.00	45.0 AV	54.0	-9.0	2.13 H	21	28.7	16.3
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	*5300.00	108.1 PK			3.29 V	98	99.2	8.9
2	*5300.00	99.3 AV			3.29 V	98	90.4	8.9
3	10600.00	58.4 PK	74.0	-15.6	1.93 V	133	41.0	17.4
4	10600.00	46.3 AV	54.0	-7.7	1.93 V	133	28.9	17.4

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.6 PK			1.21 H	262	96.6	9.0
2	*5320.00	97.6 AV			1.21 H	262	88.6	9.0
3	5350.00	60.3 PK	74.0	-13.7	1.21 H	262	51.3	9.0
4	5350.00	47.8 AV	54.0	-6.2	1.21 H	262	38.8	9.0
5	10640.00	57.5 PK	74.0	-16.5	2.16 H	23	41.1	16.4
6	10640.00	45.5 AV	54.0	-8.5	2.16 H	23	29.1	16.4
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	*5320.00	107.8 PK			3.23 V	96	98.8	9.0
2	*5320.00	99.7 AV			3.23 V	96	90.7	9.0
3	5350.00	62.3 PK	74.0	-11.7	3.23 V	96	53.3	9.0
4	5350.00	49.8 AV	54.0	-4.2	3.23 V	96	40.8	9.0
5	10640.00	58.7 PK	74.0	-15.3	1.96 V	135	41.4	17.3
6	10640.00	46.6 AV	54.0	-7.4	1.96 V	135	29.3	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.

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	1.48 H	139	50.3	9.1
2	5460.00	48.1 AV	54.0	-5.9	1.48 H	139	39.0	9.1
3	#5470.00	62.1 PK	68.2	-6.1	1.48 H	139	52.8	9.3
4	*5500.00	107.0 PK			1.48 H	139	97.6	9.4
5	*5500.00	98.7 AV			1.48 H	139	89.3	9.4
6	11000.00	58.3 PK	74.0	-15.7	2.43 H	146	41.3	17.0
7	11000.00	46.2 AV	54.0	-7.8	2.43 H	146	29.2	17.0
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	59.8 PK	74.0	-14.2	3.30 V	225	50.7	9.1
2	5460.00	48.5 AV	54.0	-5.5	3.30 V	225	39.4	9.1
3	#5470.00	62.4 PK	68.2	-5.8	3.30 V	225	53.1	9.3
4	*5500.00	108.5 PK			3.30 V	225	99.1	9.4
5	*5500.00	100.0 AV			3.30 V	225	90.6	9.4
6	11000.00	58.6 PK	74.0	-15.4	2.23 V	258	41.6	17.0
7	11000.00	46.5 AV	54.0	-7.5	2.23 V	258	29.5	17.0

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.1 PK			1.54 H	13	96.7	9.4
2	*5580.00	97.8 AV			1.54 H	13	88.4	9.4
3	11160.00	57.9 PK	74.0	-16.1	2.46 H	23	40.5	17.4
4	11160.00	45.7 AV	54.0	-8.3	2.46 H	23	28.3	17.4
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	*5580.00	109.3 PK			3.37 V	101	99.8	9.5
2	*5580.00	101.0 AV			3.37 V	101	91.5	9.5
3	11160.00	60.2 PK	74.0	-13.8	2.29 V	132	40.8	19.4
4	11160.00	48.0 AV	54.0	-6.0	2.29 V	132	28.6	19.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.8 PK			1.28 H	21	97.9	8.9
2	*5700.00	98.5 AV			1.28 H	21	89.6	8.9
3	#5725.00	64.3 PK	68.2	-3.9	1.28 H	21	55.3	9.0
4	11400.00	59.2 PK	74.0	-14.8	2.23 H	28	41.7	17.5
5	11400.00	47.2 AV	54.0	-6.8	2.23 H	28	29.7	17.5
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	109.3 PK			3.10 V	107	100.4	8.9
2	*5700.00	101.2 AV			3.10 V	107	92.3	8.9
3	#5725.00	64.7 PK	68.2	-3.5	3.10 V	107	55.7	9.0
4	11400.00	59.4 PK	74.0	-14.6	2.03 V	140	41.9	17.5
5	11400.00	47.4 AV	54.0	-6.6	2.03 V	140	29.9	17.5

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.6 PK	68.2	-7.6	1.52 H	18	50.8	9.8
2	*5720.00	109.4 PK			1.52 H	18	100.4	9.0
3	*5720.00	101.2 AV			1.52 H	18	92.2	9.0
4	11440.00	61.4 PK	74.0	-12.6	2.47 H	25	42.0	19.4
5	11440.00	49.4 AV	54.0	-4.6	2.47 H	25	30.0	19.4
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	#5470.00	61.0 PK	68.2	-7.2	3.34 V	104	51.2	9.8
2	*5720.00	111.8 PK			3.34 V	104	102.8	9.0
3	*5720.00	103.7 AV			3.34 V	104	94.7	9.0
4	11440.00	61.7 PK	74.0	-12.3	2.27 V	137	42.3	19.4
5	11440.00	49.7 AV	54.0	-4.3	2.27 V	137	30.3	19.4

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.80	59.7 PK	68.2	-8.5	1.40 H	22	50.6	9.1
2	*5745.00	107.2 PK			1.40 H	22	98.3	8.9
3	*5745.00	98.9 AV			1.40 H	22	90.0	8.9
4	#5948.40	58.6 PK	68.2	-9.6	1.40 H	22	49.5	9.1
5	11490.00	59.4 PK	74.0	-14.6	2.35 H	27	42.0	17.4
6	11490.00	47.4 AV	54.0	-6.6	2.35 H	27	30.0	17.4
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	#5627.20	58.8 PK	68.2	-9.4	3.22 V	108	49.7	9.1
2	*5745.00	109.8 PK			3.22 V	108	100.9	8.9
3	*5745.00	100.9 AV			3.22 V	108	92.0	8.9
4	#5946.40	59.3 PK	68.2	-8.9	3.22 V	108	50.2	9.1
5	11490.00	59.7 PK	74.0	-14.3	2.15 V	141	42.3	17.4
6	11490.00	47.7 AV	54.0	-6.3	2.15 V	141	30.3	17.4

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5610.40	59.2 PK	68.2	-9.0	1.32 H	23	49.9	9.3
2	*5785.00	107.0 PK			1.32 H	23	98.0	9.0
3	*5785.00	98.9 AV			1.32 H	23	89.9	9.0
4	#5955.60	58.9 PK	68.2	-9.3	1.32 H	23	49.8	9.1
5	11570.00	59.5 PK	74.0	-14.5	2.27 H	28	42.0	17.5
6	11570.00	47.5 AV	54.0	-6.5	2.27 H	28	30.0	17.5
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	#5617.60	59.5 PK	68.2	-8.7	3.14 V	107	50.2	9.3
2	*5785.00	110.1 PK			3.14 V	107	101.1	9.0
3	*5785.00	102.1 AV			3.14 V	107	93.1	9.0
4	#5986.80	59.2 PK	68.2	-9.0	3.14 V	107	50.2	9.0
5	11570.00	59.8 PK	74.0	-14.2	2.07 V	140	42.3	17.5
6	11570.00	47.8 AV	54.0	-6.2	2.07 V	140	30.3	17.5

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	59.4 PK	68.2	-8.8	1.30 H	24	50.2	9.2
2	*5825.00	107.3 PK			1.30 H	24	98.2	9.1
3	*5825.00	98.9 AV			1.30 H	24	89.8	9.1
4	#5986.00	59.1 PK	68.2	-9.1	1.30 H	24	50.1	9.0
5	11650.00	59.9 PK	74.0	-14.1	2.25 H	30	42.1	17.8
6	11650.00	47.9 AV	54.0	-6.1	2.25 H	30	30.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5605.20	59.0 PK	68.2	-9.2	3.12 V	107	49.6	9.4
2	*5825.00	110.0 PK			3.12 V	107	100.9	9.1
3	*5825.00	101.5 AV			3.12 V	107	92.4	9.1
4	#5978.40	59.4 PK	68.2	-8.8	3.12 V	107	50.4	9.0
5	11650.00	60.2 PK	74.0	-13.8	2.05 V	139	42.4	17.8
6	11650.00	48.2 AV	54.0	-5.8	2.05 V	139	30.4	17.8

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	2.28 H	266	50.9	7.8
2	5150.00	47.3 AV	54.0	-6.7	2.28 H	266	39.5	7.8
3	*5180.00	104.6 PK			2.28 H	266	96.6	8.0
4	*5180.00	93.1 AV			2.28 H	266	85.1	8.0
5	#10360.00	55.7 PK	68.2	-12.5	1.75 H	220	39.1	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.5 PK	74.0	-7.5	3.47 V	94	58.7	7.8
2	5150.00	49.1 AV	54.0	-4.9	3.47 V	94	41.3	7.8
3	*5180.00	108.2 PK			3.47 V	94	100.2	8.0
4	*5180.00	97.4 AV			3.47 V	94	89.4	8.0
5	#10360.00	56.0 PK	68.2	-12.2	2.41 V	139	39.4	16.6

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.2 PK			2.05 H	256	96.1	8.1
2	*5200.00	92.6 AV			2.05 H	256	84.5	8.1
3	#10400.00	55.4 PK	68.2	-12.8	1.52 H	210	38.7	16.7
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	*5200.00	108.4 PK			3.25 V	95	100.3	8.1
2	*5200.00	96.9 AV			3.25 V	95	88.8	8.1
3	#10400.00	55.7 PK	68.2	-12.5	2.18 V	129	39.0	16.7

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.7 PK			2.04 H	257	96.2	8.5
2	*5240.00	94.7 AV			2.04 H	257	86.2	8.5
3	5350.00	59.2 PK	74.0	-14.8	2.04 H	257	50.2	9.0
4	5350.00	47.3 AV	54.0	-6.7	2.04 H	257	38.3	9.0
5	#10480.00	56.6 PK	68.2	-11.6	1.51 H	209	40.2	16.4
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	109.4 PK			3.47 V	93	100.9	8.5
2	*5240.00	99.1 AV			3.47 V	93	90.6	8.5
3	5350.00	59.5 PK	74.0	-14.5	3.47 V	93	50.5	9.0
4	5350.00	47.6 AV	54.0	-6.4	3.47 V	93	38.6	9.0
5	#10480.00	56.7 PK	68.2	-11.5	2.99 V	126	40.3	16.4

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	2.02 H	250	51.1	7.8
2	5150.00	47.5 AV	54.0	-6.5	2.02 H	250	39.7	7.8
3	*5260.00	105.8 PK			2.02 H	250	97.0	8.8
4	*5260.00	95.7 AV			2.02 H	250	86.9	8.8
5	#10520.00	56.4 PK	68.2	-11.8	1.49 H	202	39.9	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	5150.00	59.2 PK	74.0	-14.8	2.99 V	94	51.4	7.8
2	5150.00	47.8 AV	54.0	-6.2	2.99 V	94	40.0	7.8
3	*5260.00	109.3 PK			2.99 V	94	100.5	8.8
4	*5260.00	98.4 AV			2.99 V	94	89.6	8.8
5	#10520.00	56.7 PK	68.2	-11.5	2.15 V	123	40.2	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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.0 PK			1.36 H	14	97.0	9.0
2	*5300.00	95.6 AV			1.36 H	14	86.6	9.0
3	10600.00	58.0 PK	74.0	-16.0	2.28 H	16	41.7	16.3
4	10600.00	46.0 AV	54.0	-8.0	2.28 H	16	29.7	16.3
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	*5300.00	109.0 PK			3.12 V	92	100.0	9.0
2	*5300.00	98.8 AV			3.12 V	92	89.8	9.0
3	10600.00	58.5 PK	74.0	-15.5	2.11 V	124	42.2	16.3
4	10600.00	46.5 AV	54.0	-7.5	2.11 V	124	30.2	16.3

Remarks:

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

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.8 PK			1.37 H	16	96.8	9.0
2	*5320.00	95.4 AV			1.37 H	16	86.4	9.0
3	5350.00	60.0 PK	74.0	-14.0	1.37 H	16	51.0	9.0
4	5350.00	47.7 AV	54.0	-6.3	1.37 H	16	38.7	9.0
5	10640.00	58.0 PK	74.0	-16.0	2.29 H	24	41.6	16.4
6	10640.00	46.0 AV	54.0	-8.0	2.29 H	24	29.6	16.4
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	*5320.00	108.8 PK			3.14 V	102	99.8	9.0
2	*5320.00	98.7 AV			3.14 V	102	89.7	9.0
3	5350.00	64.5 PK	74.0	-9.5	3.14 V	102	55.5	9.0
4	5350.00	50.2 AV	54.0	-3.8	3.14 V	102	41.2	9.0
5	10640.00	58.3 PK	74.0	-15.7	2.12 V	133	41.9	16.4
6	10640.00	47.3 AV	54.0	-6.7	2.12 V	133	30.9	16.4

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.2 PK	74.0	-13.8	1.37 H	19	51.1	9.1
2	5460.00	48.0 AV	54.0	-6.0	1.37 H	19	38.9	9.1
3	#5470.00	63.5 PK	68.2	-4.7	1.37 H	19	54.2	9.3
4	*5500.00	106.5 PK			1.37 H	19	97.1	9.4
5	*5500.00	95.7 AV			1.37 H	19	86.3	9.4
6	11000.00	58.8 PK	74.0	-15.2	2.27 H	23	41.8	17.0
7	11000.00	46.8 AV	54.0	-7.2	2.27 H	23	29.8	17.0
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	64.5 PK	74.0	-9.5	3.17 V	107	55.4	9.1
2	5460.00	49.4 AV	54.0	-4.6	3.17 V	107	40.3	9.1
3	#5470.00	64.4 PK	68.2	-3.8	3.17 V	107	55.1	9.3
4	*5500.00	108.9 PK			3.17 V	107	99.5	9.4
5	*5500.00	98.6 AV			3.17 V	107	89.2	9.4
6	11000.00	59.1 PK	74.0	-14.9	2.10 V	131	42.1	17.0
7	11000.00	47.1 AV	54.0	-6.9	2.10 V	131	30.1	17.0

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.8 PK			1.57 H	27	97.4	9.4
2	*5580.00	95.8 AV			1.57 H	27	86.4	9.4
3	11160.00	59.3 PK	74.0	-14.7	1.21 H	31	41.9	17.4
4	11160.00	47.3 AV	54.0	-6.7	1.21 H	31	29.9	17.4
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	*5580.00	109.9 PK			3.24 V	107	100.5	9.4
2	*5580.00	99.4 AV			3.24 V	107	90.0	9.4
3	11160.00	59.7 PK	74.0	-14.3	1.90 V	139	42.3	17.4
4	11160.00	47.6 AV	54.0	-6.4	1.90 V	139	30.2	17.4

Remarks:

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

RF Mode	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	105.2 PK			1.30 H	12	96.3	8.9
2	*5700.00	96.2 AV			1.30 H	12	87.3	8.9
3	#5725.00	64.0 PK	68.2	-4.2	1.30 H	12	55.0	9.0
4	11140.00	59.6 PK	74.0	-14.4	2.19 H	16	42.3	17.3
5	11140.00	47.8 AV	54.0	-6.2	2.19 H	16	30.5	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	*5700.00	108.6 PK			3.36 V	93	99.7	8.9
2	*5700.00	99.2 AV			3.36 V	93	90.3	8.9
3	#5725.00	65.0 PK	68.2	-3.2	3.36 V	93	56.0	9.0
4	11400.00	60.2 PK	74.0	-13.8	2.45 V	146	42.7	17.5
5	11400.00	48.4 AV	54.0	-5.6	2.45 V	146	30.9	17.5

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.0 PK	68.2	-7.2	1.54 H	25	51.2	9.8
2	*5720.00	109.8 PK			1.54 H	25	100.8	9.0
3	*5720.00	98.3 AV			1.54 H	25	89.3	9.0
4	11440.00	61.6 PK	74.0	-12.4	2.49 H	32	42.2	19.4
5	11440.00	49.6 AV	54.0	-4.4	2.49 H	32	30.2	19.4
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	#5470.00	61.2 PK	68.2	-7.0	3.36 V	111	51.4	9.8
2	*5720.00	112.1 PK			3.36 V	111	103.1	9.0
3	*5720.00	100.3 AV			3.36 V	111	91.3	9.0
4	11440.00	61.9 PK	74.0	-12.1	2.29 V	144	42.5	19.4
5	11440.00	49.9 AV	54.0	-4.1	2.29 V	144	30.5	19.4

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.00	59.9 PK	68.2	-8.3	1.42 H	16	50.8	9.1
2	*5745.00	107.0 PK			1.42 H	16	98.1	8.9
3	*5745.00	96.9 AV			1.42 H	16	88.0	8.9
4	#5985.60	59.0 PK	68.2	-9.2	1.42 H	16	50.0	9.0
5	11490.00	59.9 PK	74.0	-14.1	2.31 H	20	42.5	17.4
6	11490.00	47.9 AV	54.0	-6.1	2.31 H	20	30.5	17.4
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	#5604.40	59.2 PK	68.2	-9.0	3.31 V	103	49.8	9.4
2	*5745.00	110.3 PK			3.31 V	103	101.4	8.9
3	*5745.00	100.9 AV			3.31 V	103	92.0	8.9
4	#5928.80	59.8 PK	68.2	-8.4	3.31 V	103	50.6	9.2
5	11490.00	60.2 PK	74.0	-13.8	2.15 V	128	42.8	17.4
6	11490.00	48.2 AV	54.0	-5.8	2.15 V	128	30.8	17.4

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.40	59.3 PK	68.2	-8.9	1.32 H	21	49.9	9.4
2	*5785.00	107.2 PK			1.32 H	21	98.2	9.0
3	*5785.00	97.4 AV			1.32 H	21	88.4	9.0
4	#5926.00	59.5 PK	68.2	-8.7	1.32 H	21	50.3	9.2
5	11570.00	59.9 PK	74.0	-14.1	2.22 H	25	42.4	17.5
6	11570.00	47.9 AV	54.0	-6.1	2.22 H	25	30.4	17.5
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	#5623.20	59.2 PK	68.2	-9.0	3.14 V	105	50.0	9.2
2	*5785.00	111.2 PK			3.14 V	105	102.2	9.0
3	*5785.00	100.5 AV			3.14 V	105	91.5	9.0
4	#5954.80	59.4 PK	68.2	-8.8	3.14 V	105	50.3	9.1
5	11570.00	60.2 PK	74.0	-13.8	2.05 V	134	42.7	17.5
6	11570.00	48.2 AV	54.0	-5.8	2.05 V	134	30.7	17.5

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.00	60.2 PK	68.2	-8.0	1.33 H	18	51.1	9.1
2	*5825.00	107.3 PK			1.33 H	18	98.2	9.1
3	*5825.00	97.5 AV			1.33 H	18	88.4	9.1
4	#5992.40	60.2 PK	68.2	-8.0	1.33 H	18	51.2	9.0
5	11650.00	60.2 PK	74.0	-13.8	2.24 H	22	42.4	17.8
6	11650.00	48.2 AV	54.0	-5.8	2.24 H	22	30.4	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.20	59.7 PK	68.2	-8.5	3.24 V	103	50.4	9.3
2	*5825.00	110.9 PK			3.24 V	103	101.8	9.1
3	*5825.00	100.3 AV			3.24 V	103	91.2	9.1
4	#5981.60	59.4 PK	68.2	-8.8	3.24 V	103	50.4	9.0
5	11650.00	60.5 PK	74.0	-13.5	2.06 V	131	42.7	17.8
6	11650.00	48.5 AV	54.0	-5.5	2.06 V	131	30.7	17.8

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	2.42 H	267	51.1	7.8
2	5150.00	47.5 AV	54.0	-6.5	2.42 H	267	39.7	7.8
3	*5180.00	105.7 PK			2.42 H	267	97.7	8.0
4	*5180.00	93.8 AV			2.42 H	267	85.8	8.0
5	#10360.00	55.9 PK	68.2	-12.3	1.89 H	219	39.3	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	3.61 V	95	58.9	7.8
2	5150.00	49.3 AV	54.0	-4.7	3.61 V	95	41.5	7.8
3	*5180.00	109.8 PK			3.61 V	95	101.8	8.0
4	*5180.00	97.9 AV			3.61 V	95	89.9	8.0
5	#10360.00	56.2 PK	68.2	-12.0	2.55 V	140	39.6	16.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	105.4 PK			2.19 H	257	97.3	8.1
2	*5200.00	93.5 AV			2.19 H	257	85.4	8.1
3	#10400.00	55.6 PK	68.2	-12.6	1.66 H	209	38.9	16.7
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	*5200.00	109.6 PK			3.39 V	96	101.5	8.1
2	*5200.00	98.1 AV			3.39 V	96	90.0	8.1
3	#10400.00	55.9 PK	68.2	-12.3	2.32 V	130	39.2	16.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.8 PK			2.18 H	259	98.3	8.5
2	*5240.00	95.0 AV			2.18 H	259	86.5	8.5
3	5350.00	59.4 PK	74.0	-14.6	2.18 H	259	50.4	9.0
4	5350.00	47.5 AV	54.0	-6.5	2.18 H	259	38.5	9.0
5	#10480.00	56.7 PK	68.2	-11.5	1.65 H	211	40.3	16.4
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	111.3 PK			3.34 V	97	102.8	8.5
2	*5240.00	99.5 AV			3.34 V	97	91.0	8.5
3	5350.00	59.7 PK	74.0	-14.3	3.34 V	97	50.7	9.0
4	5350.00	47.8 AV	54.0	-6.2	3.34 V	97	38.8	9.0
5	#10480.00	56.9 PK	68.2	-11.3	2.31 V	128	40.5	16.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.1 PK	74.0	-14.9	2.16 H	254	51.3	7.8
2	5150.00	47.7 AV	54.0	-6.3	2.16 H	254	39.9	7.8
3	*5260.00	108.1 PK			2.16 H	254	99.3	8.8
4	*5260.00	96.2 AV			2.16 H	254	87.4	8.8
5	#10520.00	56.6 PK	68.2	-11.6	1.63 H	206	40.1	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	5150.00	59.4 PK	74.0	-14.6	3.13 V	98	51.6	7.8
2	5150.00	48.0 AV	54.0	-6.0	3.13 V	98	40.2	7.8
3	*5260.00	111.2 PK			3.13 V	98	102.4	8.8
4	*5260.00	98.9 AV			3.13 V	98	90.1	8.8
5	#10520.00	56.8 PK	68.2	-11.4	2.29 V	127	40.3	16.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	108.0 PK			1.50 H	10	99.0	9.0
2	*5300.00	96.1 AV			1.50 H	10	87.1	9.0
3	10600.00	58.2 PK	74.0	-15.8	2.42 H	20	41.9	16.3
4	10600.00	46.2 AV	54.0	-7.8	2.42 H	20	29.9	16.3
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	*5300.00	111.0 PK			3.26 V	96	102.0	9.0
2	*5300.00	99.3 AV			3.26 V	96	90.3	9.0
3	10600.00	58.5 PK	74.0	-15.5	2.25 V	128	42.2	16.3
4	10600.00	46.5 AV	54.0	-7.5	2.25 V	128	30.2	16.3

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	107.7 PK			1.47 H	11	98.7	9.0
2	*5320.00	95.8 AV			1.47 H	11	86.8	9.0
3	5350.00	60.1 PK	74.0	-13.9	1.47 H	11	51.1	9.0
4	5350.00	47.8 AV	54.0	-6.2	1.47 H	11	38.8	9.0
5	10640.00	58.2 PK	74.0	-15.8	2.39 H	19	41.8	16.4
6	10640.00	46.2 AV	54.0	-7.8	2.39 H	19	29.8	16.4
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	*5320.00	110.7 PK			3.24 V	97	101.7	9.0
2	*5320.00	99.2 AV			3.24 V	97	90.2	9.0
3	5350.00	64.6 PK	74.0	-9.4	3.24 V	97	55.6	9.0
4	5350.00	50.3 AV	54.0	-3.7	3.24 V	97	41.3	9.0
5	10640.00	58.5 PK	74.0	-15.5	2.22 V	128	42.1	16.4
6	10640.00	46.5 AV	54.0	-7.5	2.22 V	128	30.1	16.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.4 PK	74.0	-13.6	1.51 H	13	51.3	9.1
2	5460.00	48.2 AV	54.0	-5.8	1.51 H	13	39.1	9.1
3	#5470.00	63.7 PK	68.2	-4.5	1.51 H	13	54.4	9.3
4	*5500.00	108.7 PK			1.51 H	13	99.3	9.4
5	*5500.00	96.6 AV			1.51 H	13	87.2	9.4
6	11000.00	59.0 PK	74.0	-15.0	2.41 H	17	42.0	17.0
7	11000.00	47.0 AV	54.0	-7.0	2.41 H	17	30.0	17.0
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	64.7 PK	74.0	-9.3	3.31 V	101	55.6	9.1
2	5460.00	49.6 AV	54.0	-4.4	3.31 V	101	40.5	9.1
3	#5470.00	64.6 PK	68.2	-3.6	3.31 V	101	55.3	9.3
4	*5500.00	110.9 PK			3.31 V	101	101.5	9.4
5	*5500.00	99.5 AV			3.31 V	101	90.1	9.4
6	11000.00	59.3 PK	74.0	-14.7	2.24 V	125	42.3	17.0
7	11000.00	47.3 AV	54.0	-6.7	2.24 V	125	30.3	17.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.8 PK			1.71 H	21	99.4	9.4
2	*5580.00	96.7 AV			1.71 H	21	87.3	9.4
3	11160.00	59.5 PK	74.0	-14.5	2.61 H	25	42.1	17.4
4	11160.00	47.5 AV	54.0	-6.5	2.61 H	25	30.1	17.4
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	*5580.00	111.9 PK			3.38 V	101	102.5	9.4
2	*5580.00	100.3 AV			3.38 V	101	90.9	9.4
3	11160.00	59.8 PK	74.0	-14.2	2.04 V	133	42.4	17.4
4	11160.00	47.8 AV	54.0	-6.2	2.04 V	133	30.4	17.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	107.7 PK			1.29 H	20	98.8	8.9
2	*5700.00	96.7 AV			1.29 H	20	87.8	8.9
3	#5725.00	64.2 PK	68.2	-4.0	1.29 H	20	55.2	9.0
4	11400.00	60.0 PK	74.0	-14.0	2.19 H	24	42.5	17.5
5	11400.00	48.2 AV	54.0	-5.8	2.19 H	24	30.7	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.7 PK			3.36 V	107	101.8	8.9
2	*5700.00	99.9 AV			3.36 V	107	91.0	8.9
3	#5725.00	65.2 PK	68.2	-3.0	3.36 V	107	56.2	9.0
4	11400.00	60.3 PK	74.0	-13.7	2.46 V	132	42.8	17.5
5	11400.00	48.5 AV	54.0	-5.5	2.46 V	132	31.0	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.8 PK	68.2	-7.4	1.53 H	26	51.0	9.8
2	*5720.00	107.1 PK			1.53 H	26	98.1	9.0
3	*5720.00	97.5 AV			1.53 H	26	88.5	9.0
4	11440.00	61.4 PK	74.0	-12.6	2.50 H	31	42.0	19.4
5	11440.00	49.4 AV	54.0	-4.6	2.50 H	31	30.0	19.4
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	#5470.00	61.0 PK	68.2	-7.2	3.36 V	110	51.2	9.8
2	*5720.00	110.5 PK			3.36 V	110	101.5	9.0
3	*5720.00	99.6 AV			3.36 V	110	90.6	9.0
4	11440.00	61.7 PK	74.0	-12.3	2.30 V	143	42.3	19.4
5	11440.00	49.7 AV	54.0	-4.3	2.30 V	143	30.3	19.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.40	59.4 PK	68.2	-8.8	1.41 H	20	50.3	9.1
2	*5745.00	108.9 PK			1.41 H	20	100.0	8.9
3	*5745.00	97.0 AV			1.41 H	20	88.1	8.9
4	#5946.80	58.6 PK	68.2	-9.6	1.41 H	20	49.5	9.1
5	11490.00	60.1 PK	74.0	-13.9	2.31 H	24	42.7	17.4
6	11490.00	48.1 AV	54.0	-5.9	2.31 H	24	30.7	17.4
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	#5648.00	59.4 PK	68.2	-8.8	3.31 V	107	50.3	9.1
2	*5745.00	112.8 PK			3.31 V	107	103.9	8.9
3	*5745.00	101.0 AV			3.31 V	107	92.1	8.9
4	#5968.80	59.2 PK	68.2	-9.0	3.31 V	107	50.1	9.1
5	11490.00	60.4 PK	74.0	-13.6	2.14 V	132	43.0	17.4
6	11490.00	48.4 AV	54.0	-5.6	2.14 V	132	31.0	17.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.00	59.2 PK	68.2	-9.0	1.33 H	22	49.9	9.3
2	*5785.00	109.9 PK			1.33 H	22	100.9	9.0
3	*5785.00	98.1 AV			1.33 H	22	89.1	9.0
4	#5996.40	58.3 PK	68.2	-9.9	1.33 H	22	49.3	9.0
5	11570.00	60.1 PK	74.0	-13.9	2.23 H	26	42.6	17.5
6	11570.00	48.1 AV	54.0	-5.9	2.23 H	26	30.6	17.5
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	#5649.20	59.9 PK	68.2	-8.3	3.14 V	106	50.8	9.1
2	*5785.00	113.1 PK			3.14 V	106	104.1	9.0
3	*5785.00	101.2 AV			3.14 V	106	92.2	9.0
4	#5954.40	59.2 PK	68.2	-9.0	3.14 V	106	50.1	9.1
5	11570.00	60.4 PK	74.0	-13.6	2.06 V	133	42.9	17.5
6	11570.00	48.4 AV	54.0	-5.6	2.06 V	133	30.9	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.20	59.8 PK	68.2	-8.4	1.32 H	21	50.4	9.4
2	*5825.00	109.8 PK			1.32 H	21	100.7	9.1
3	*5825.00	98.2 AV			1.32 H	21	89.1	9.1
4	#5984.40	58.9 PK	68.2	-9.3	1.32 H	21	49.9	9.0
5	11650.00	60.4 PK	74.0	-13.6	2.24 H	25	42.6	17.8
6	11650.00	48.4 AV	54.0	-5.6	2.24 H	25	30.6	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5600.80	59.5 PK	68.2	-8.7	3.24 V	106	50.1	9.4
2	*5825.00	113.0 PK			3.24 V	106	103.9	9.1
3	*5825.00	101.1 AV			3.24 V	106	92.0	9.1
4	#5968.40	59.3 PK	68.2	-8.9	3.24 V	106	50.2	9.1
5	11650.00	60.7 PK	74.0	-13.3	2.05 V	134	42.9	17.8
6	11650.00	48.7 AV	54.0	-5.3	2.05 V	134	30.9	17.8

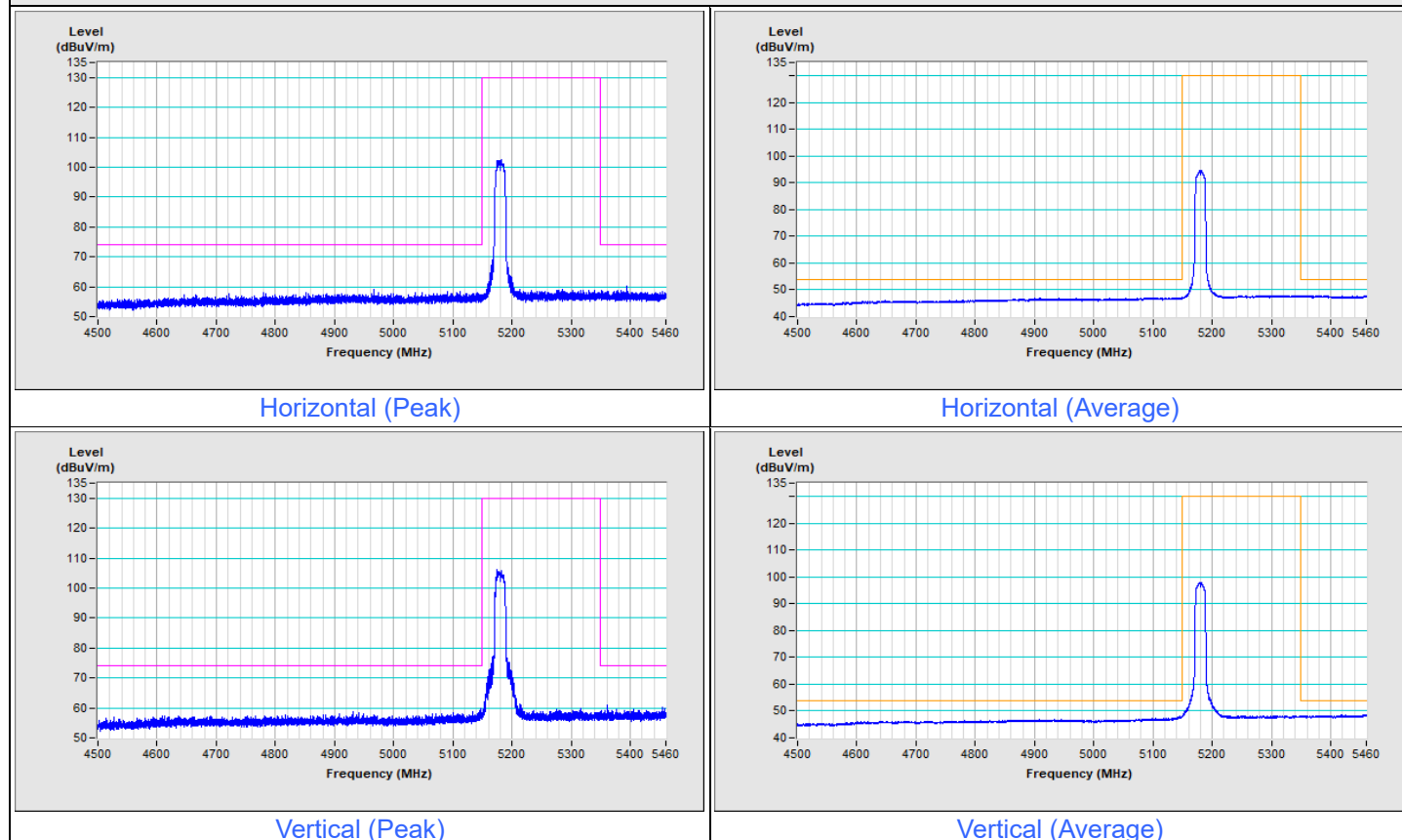
Remarks:

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

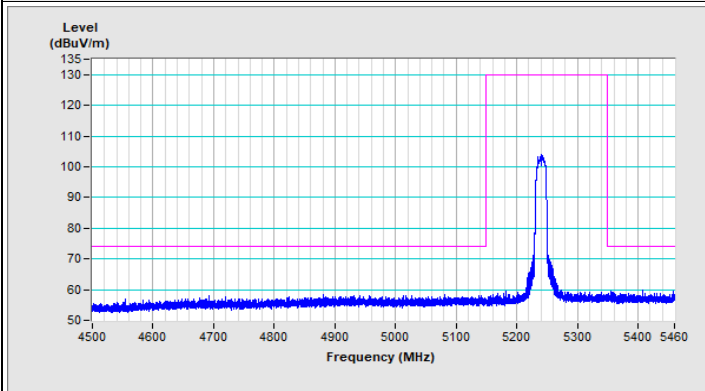
Plot of Band Edge

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=1 kHz, DET=Peak
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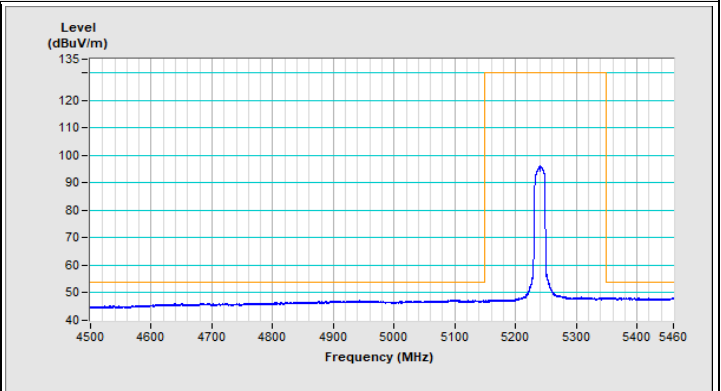
802.11a Channel 36



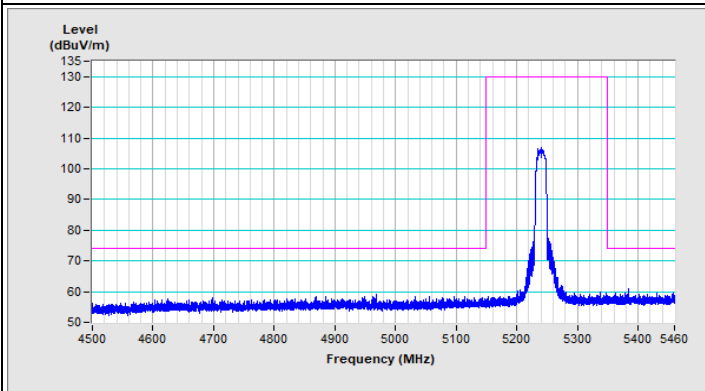
802.11a Channel 48



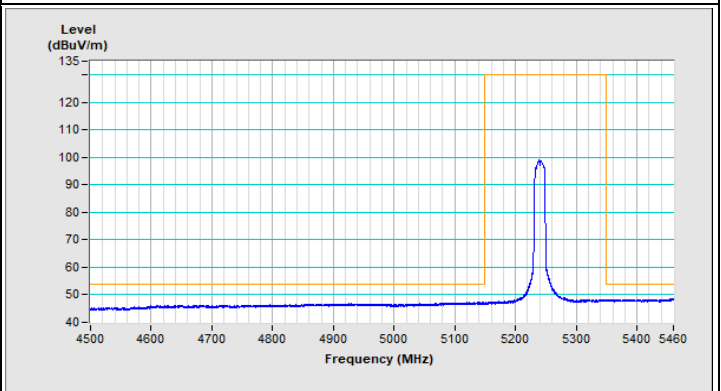
Horizontal (Peak)



Horizontal (Average)

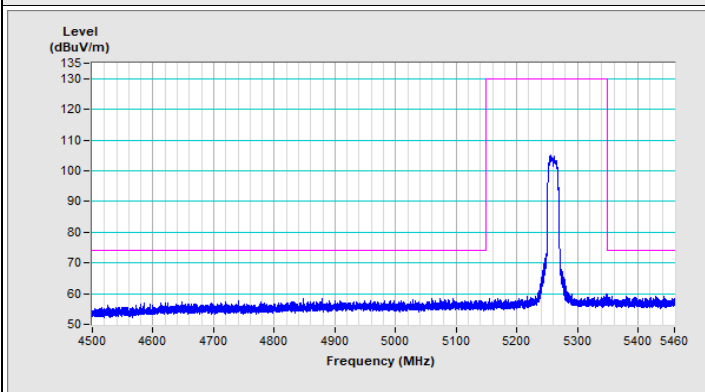


Vertical (Peak)

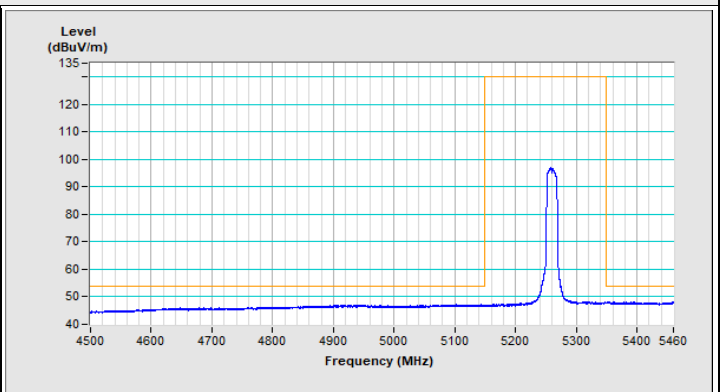


Vertical (Average)

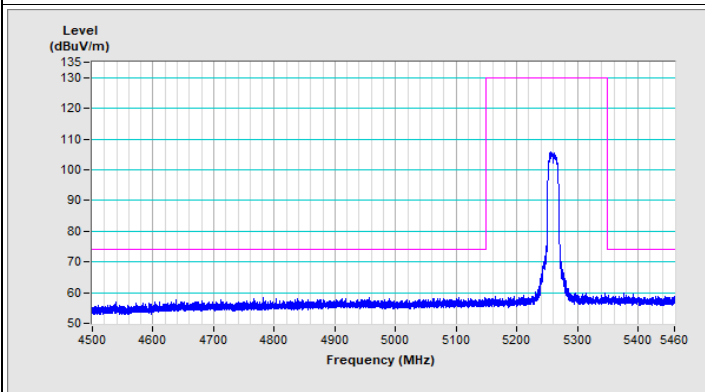
802.11a Channel 52



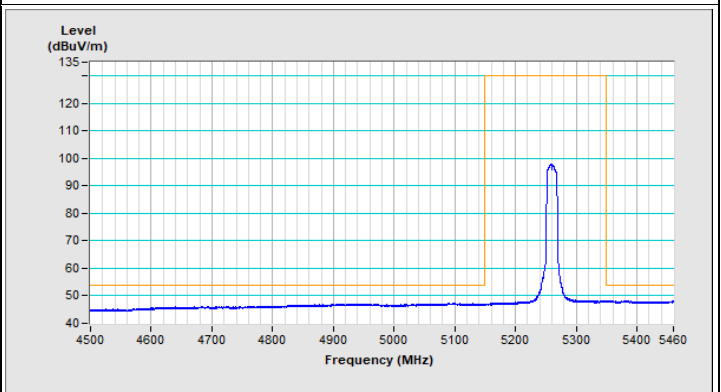
Horizontal (Peak)



Horizontal (Average)

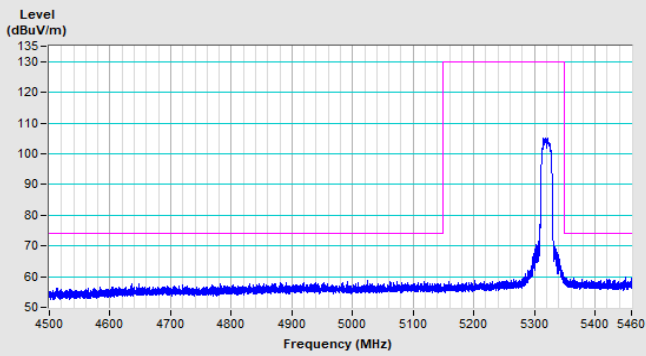


Vertical (Peak)

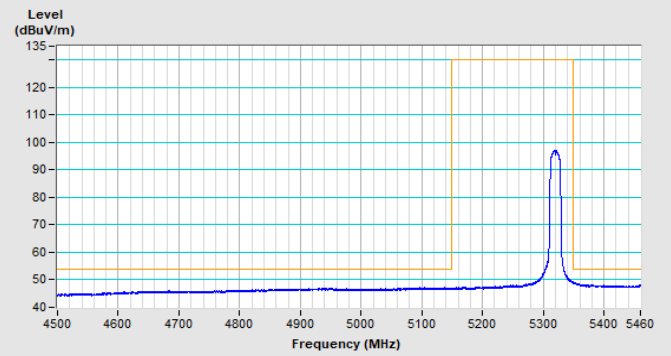


Vertical (Average)

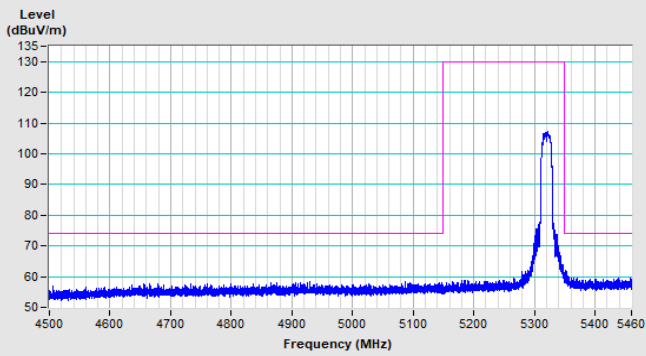
802.11a Channel 64



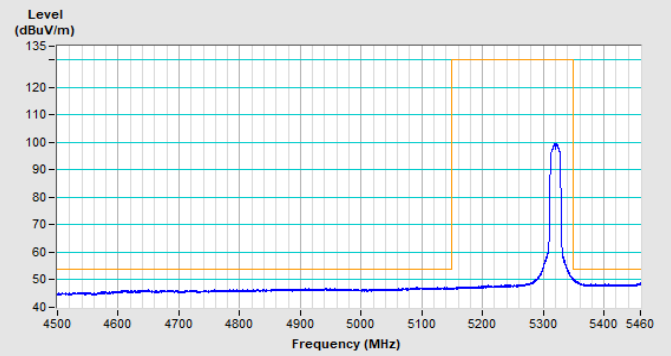
Horizontal (Peak)



Horizontal (Average)



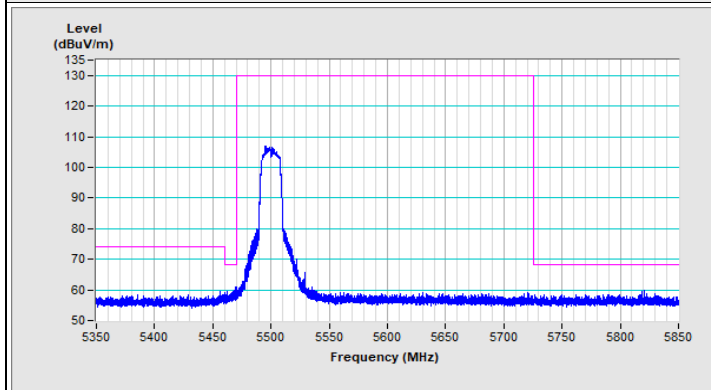
Vertical (Peak)



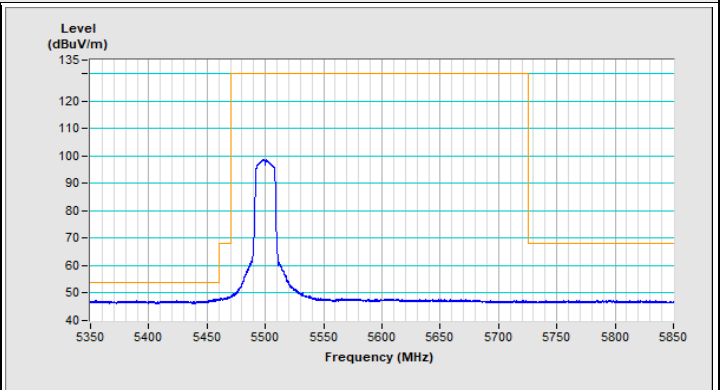
Vertical (Average)

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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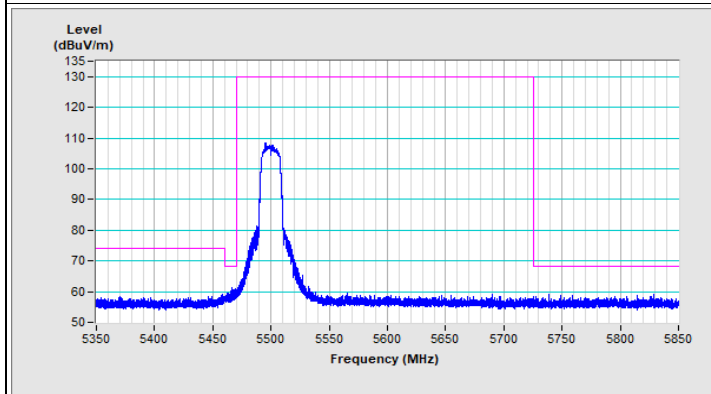
802.11a Channel 100



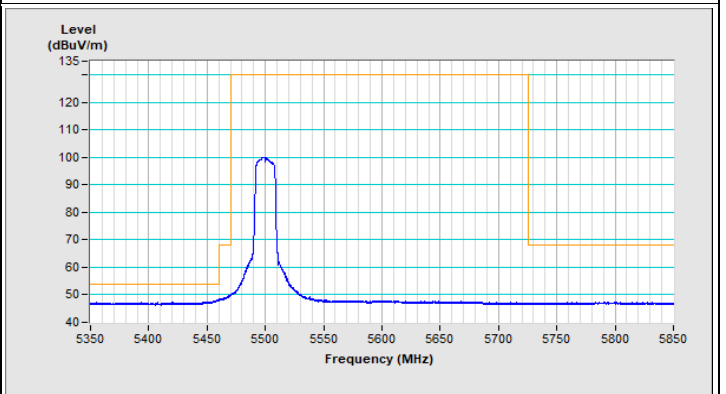
Horizontal (Peak)



Horizontal (Average)

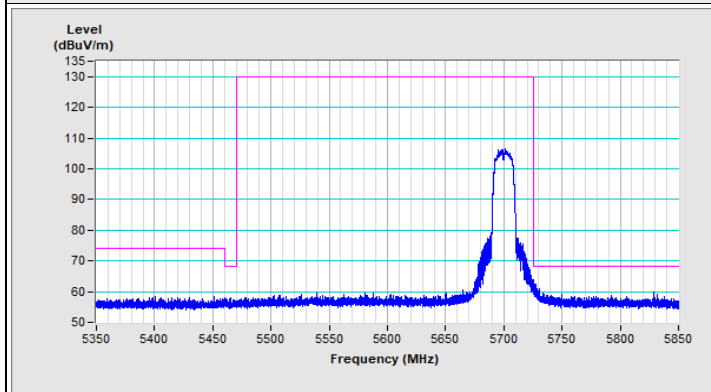


Vertical (Peak)

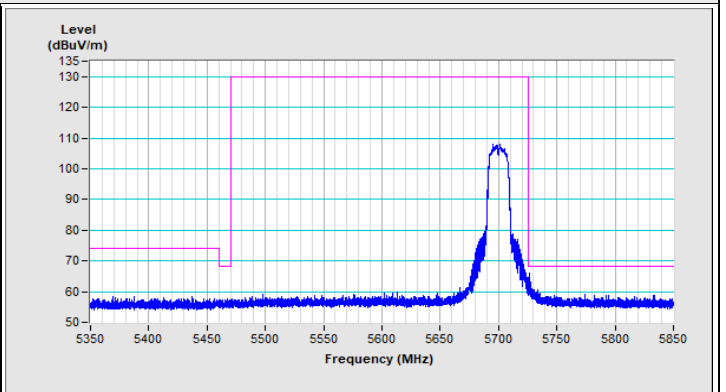


Vertical (Average)

802.11a Channel 140



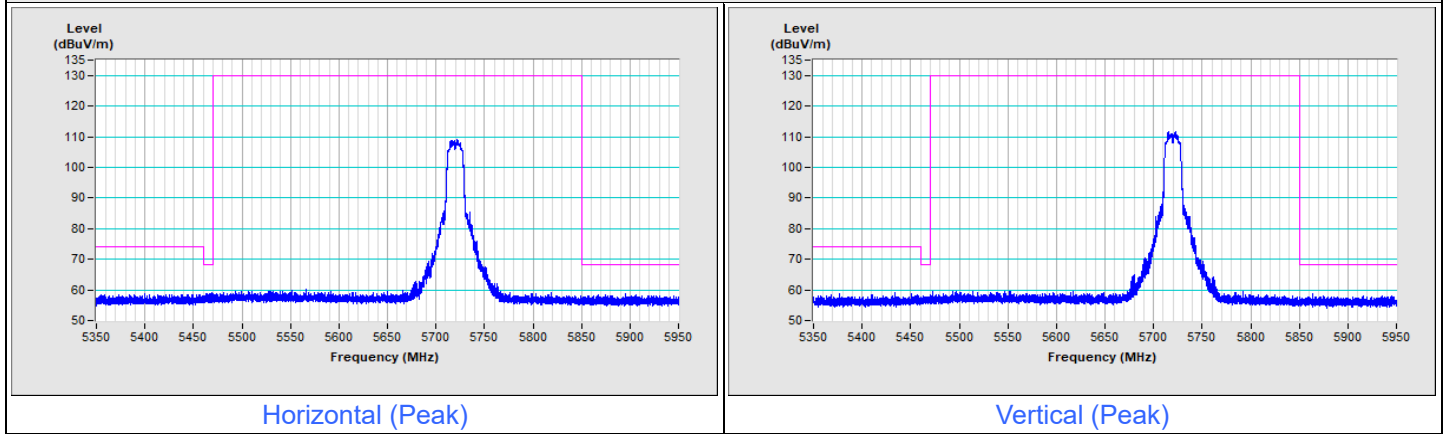
Horizontal (Peak)



Vertical (Peak)

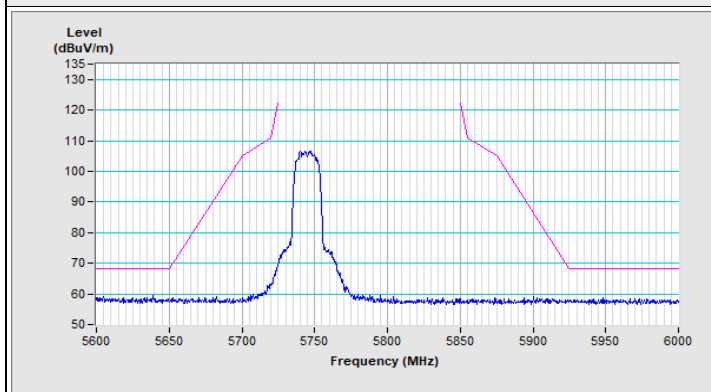
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

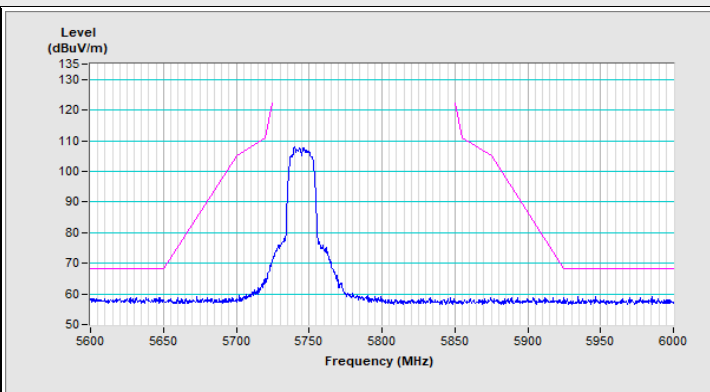


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 149

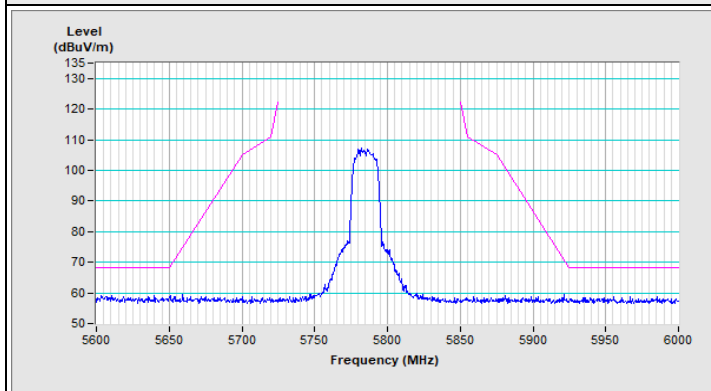


Horizontal (Peak)

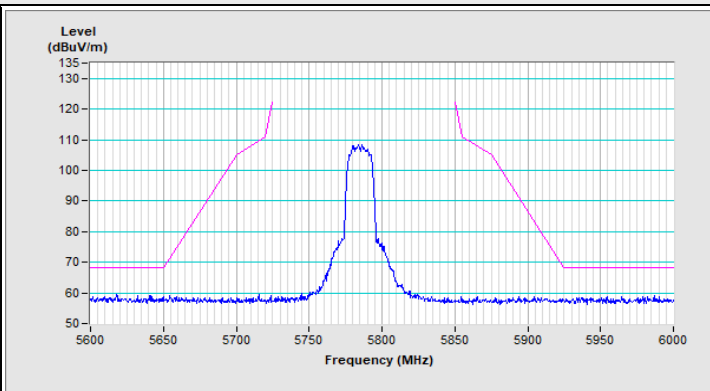


Vertical (Peak)

802.11a Channel 157

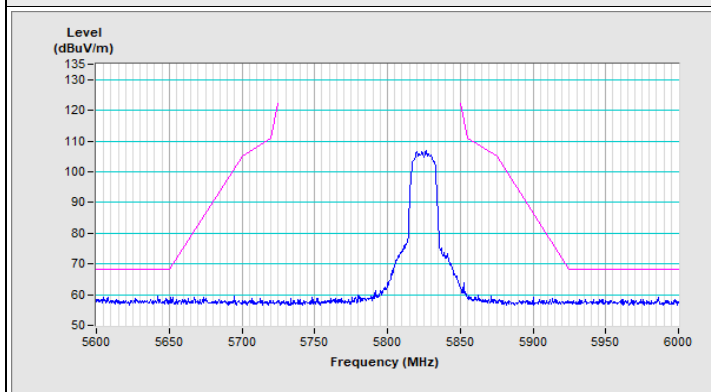


Horizontal (Peak)

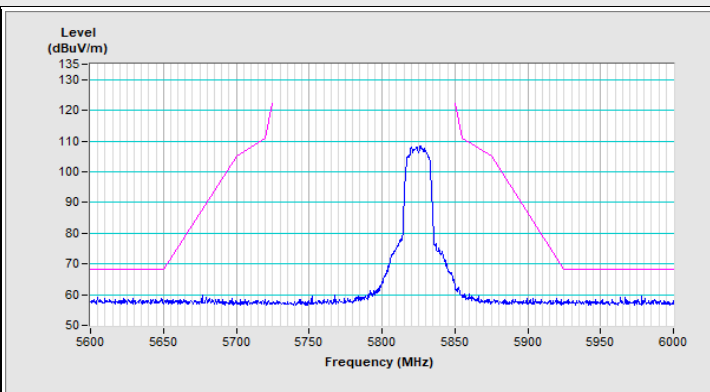


Vertical (Peak)

802.11a Channel 165



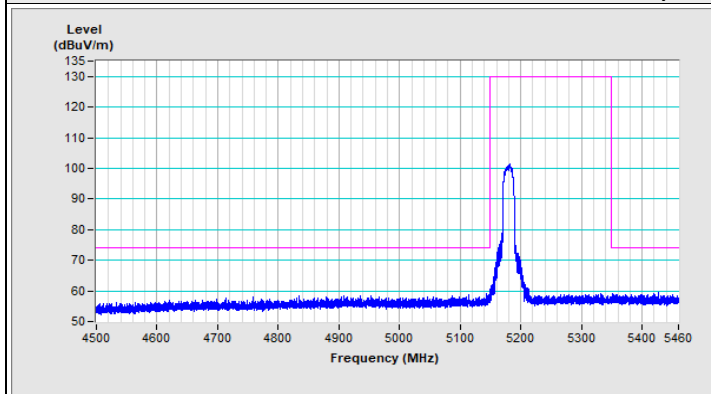
Horizontal (Peak)



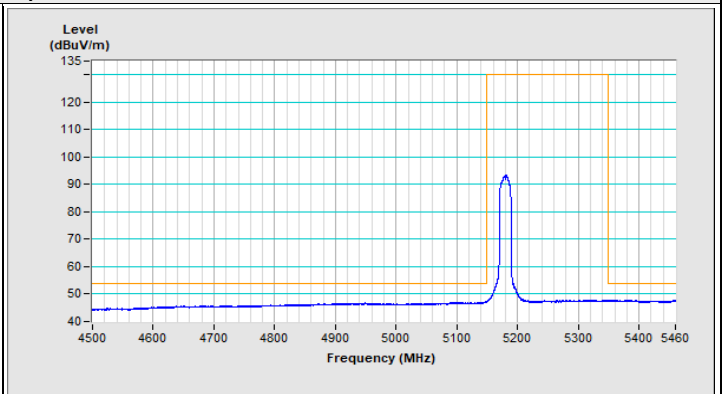
Vertical (Peak)

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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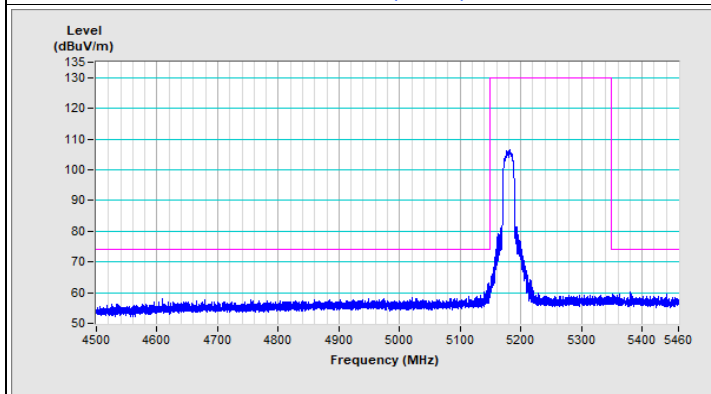
802.11ac (VHT20) Channel 36



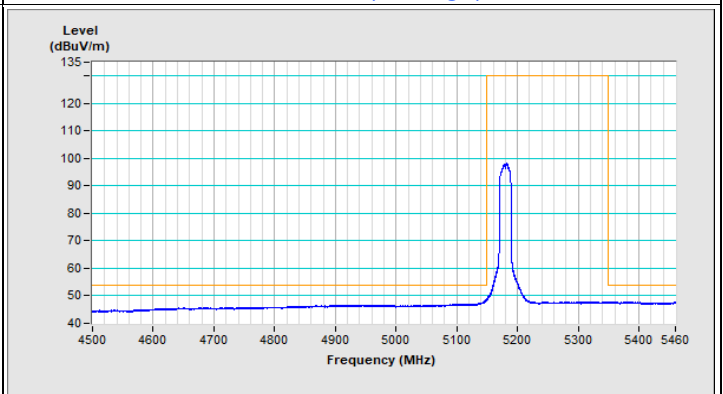
Horizontal (Peak)



Horizontal (Average)

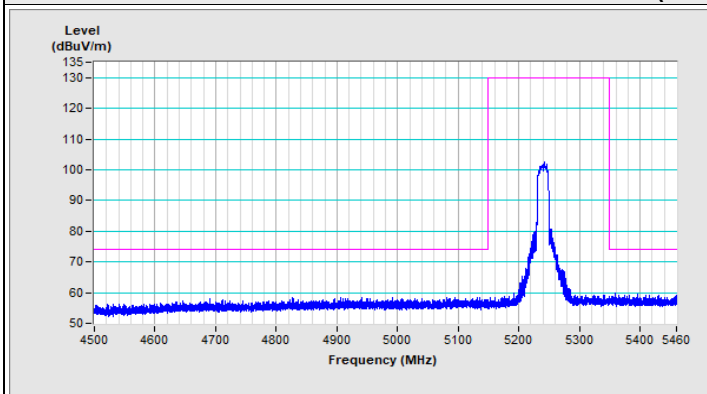


Vertical (Peak)

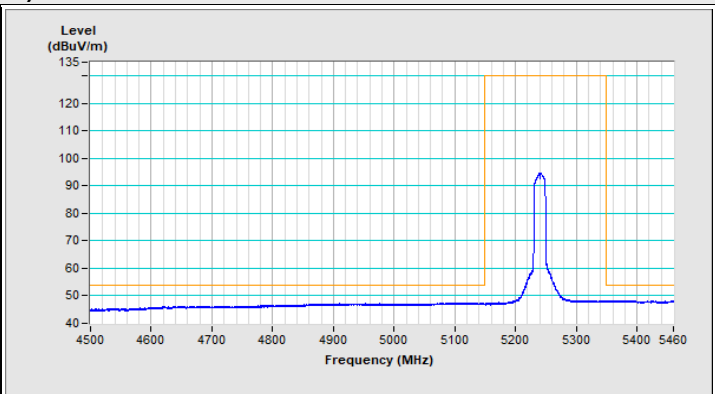


Vertical (Average)

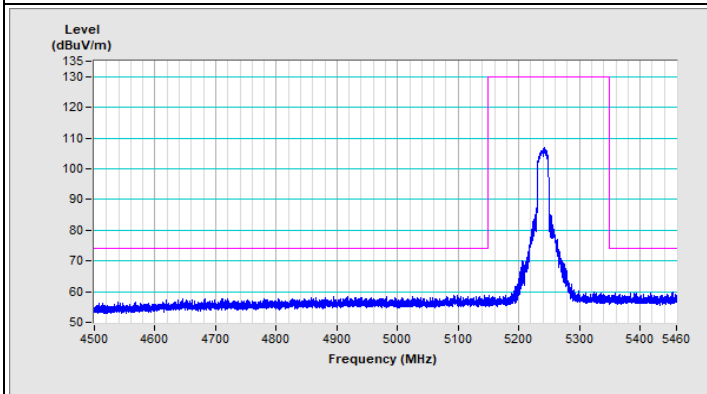
802.11ac (VHT20) Channel 48



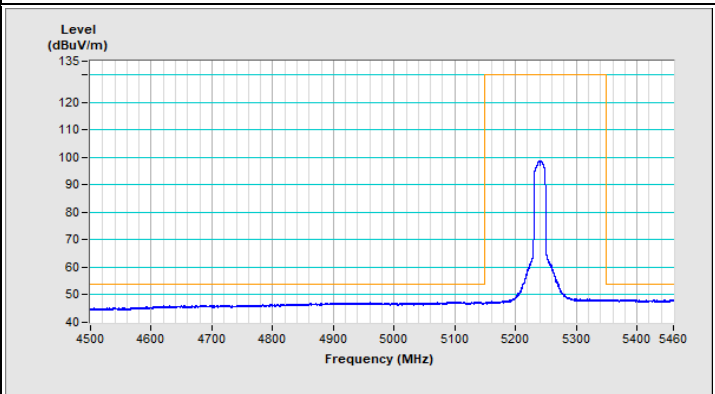
Horizontal (Peak)



Horizontal (Average)

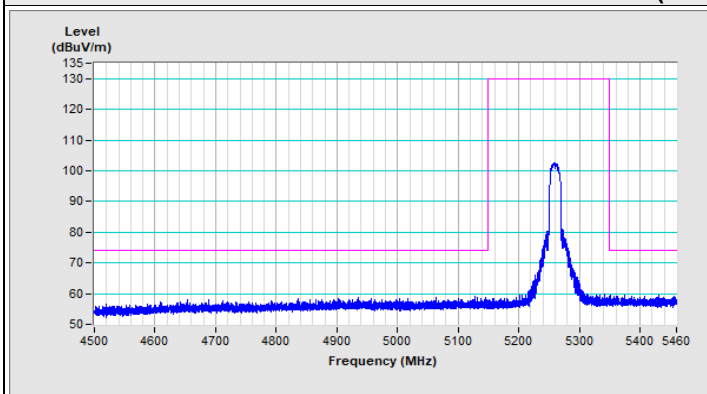


Vertical (Peak)

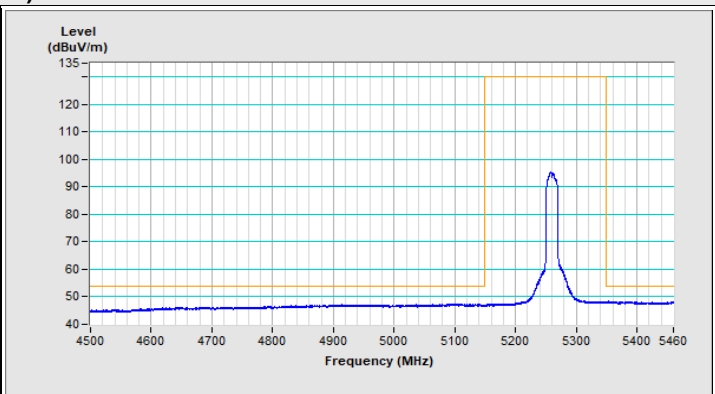


Vertical (Average)

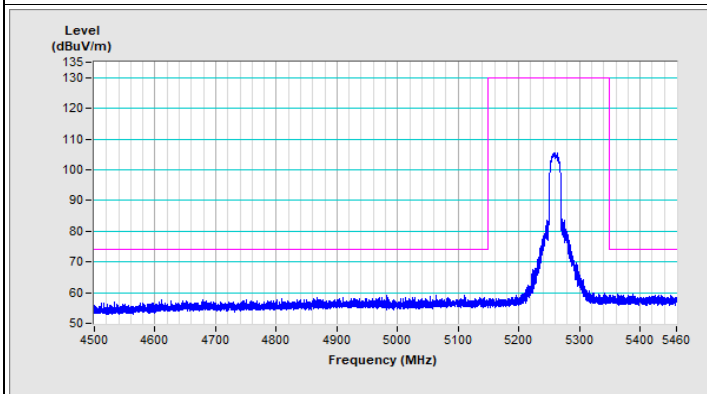
802.11ac (VHT20) Channel 52



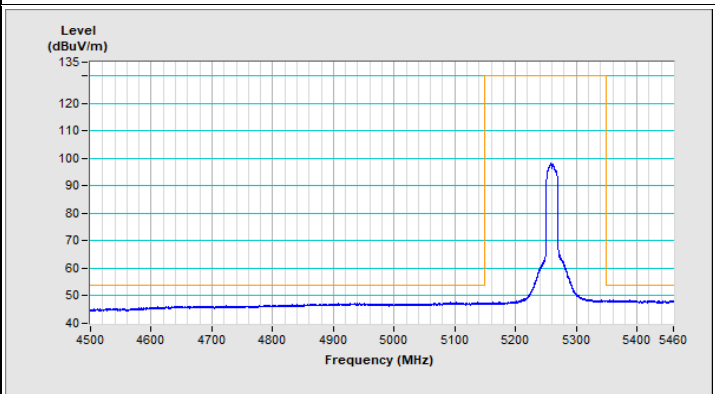
Horizontal (Peak)



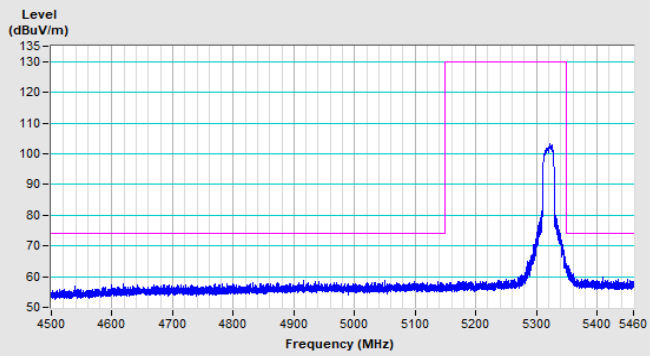
Horizontal (Average)



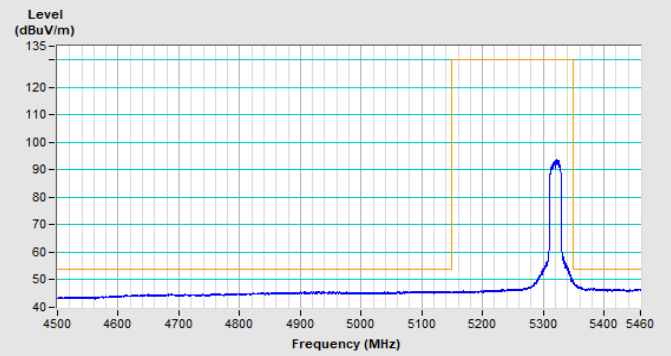
Vertical (Peak)



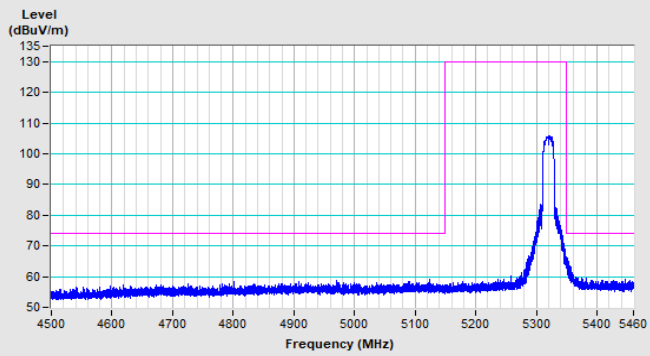
Vertical (Average)

802.11ac (VHT20) Channel 64

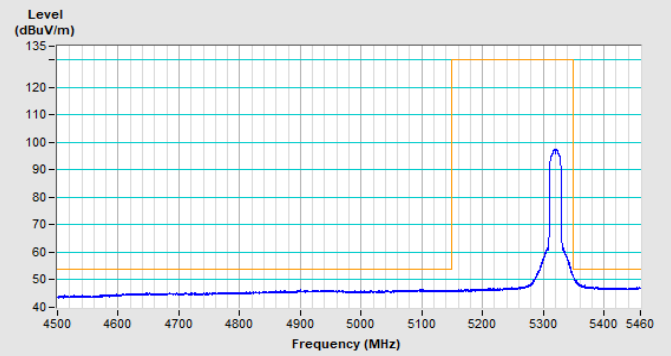
Horizontal (Peak)



Horizontal (Average)



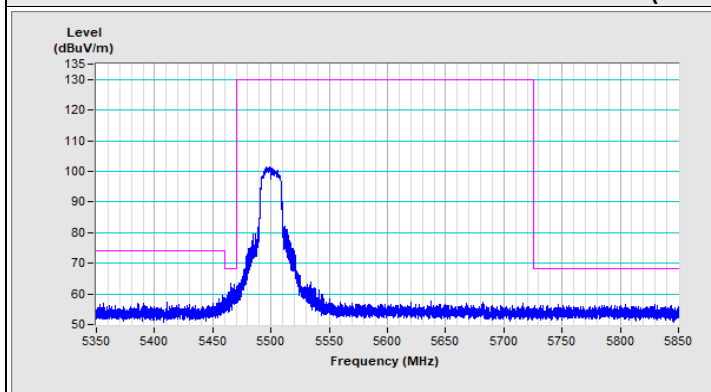
Vertical (Peak)



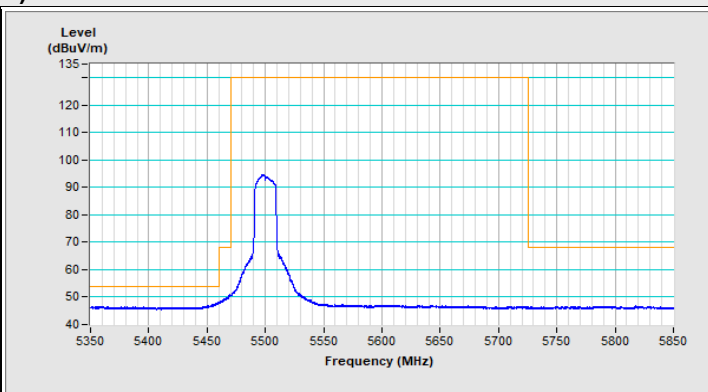
Vertical (Average)

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=1 kHz, DET=Peak
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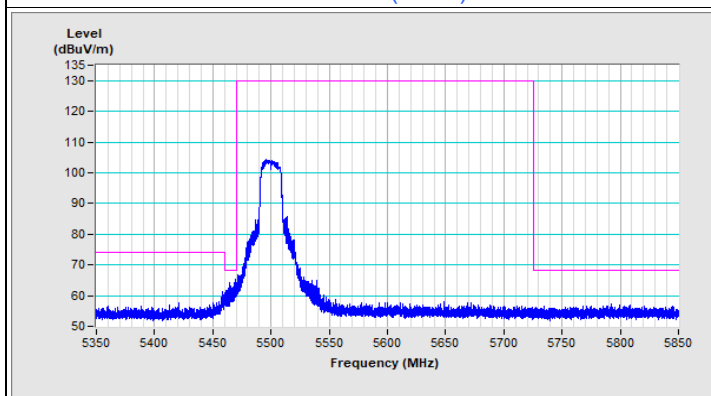
802.11ac (VHT20) Channel 100



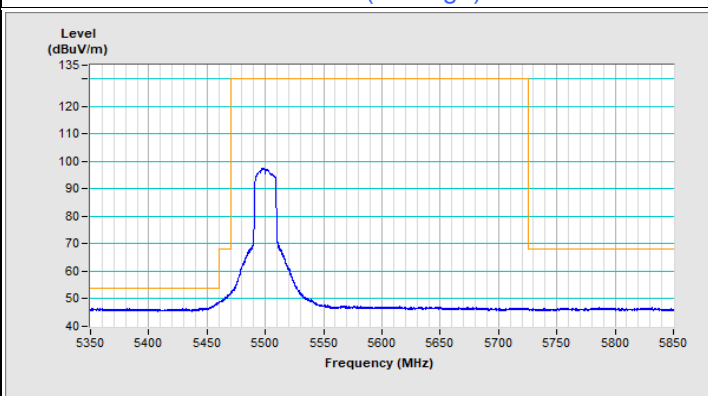
Horizontal (Peak)



Horizontal (Average)

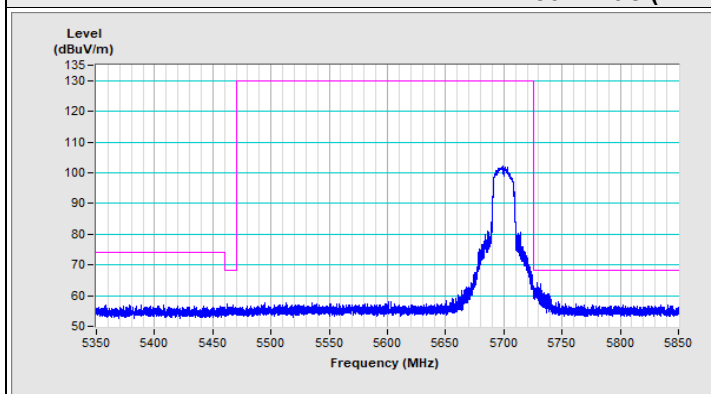


Vertical (Peak)

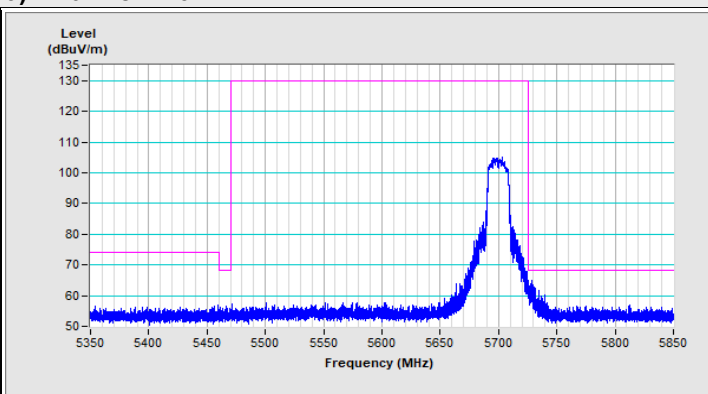


Vertical (Average)

802.11ac (VHT20) Channel 140

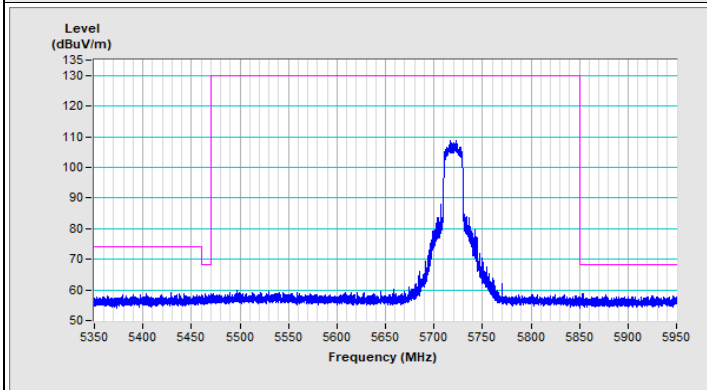


Horizontal (Peak)

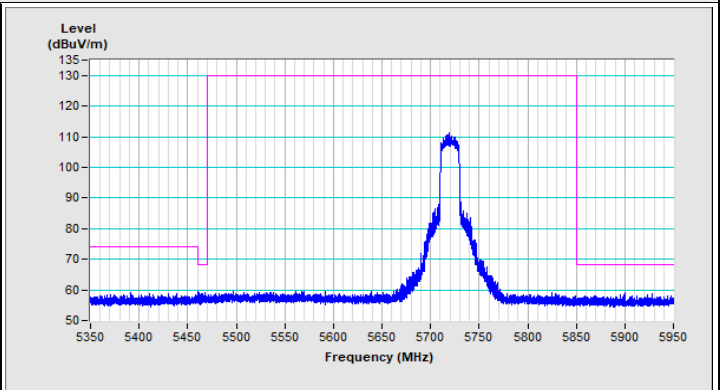


Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT20) Channel 144

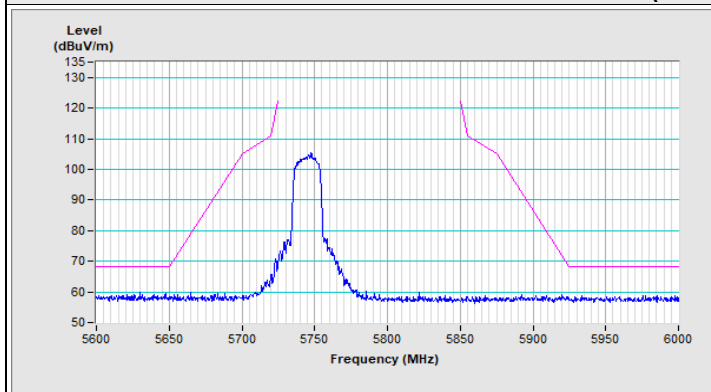
Horizontal (Peak)



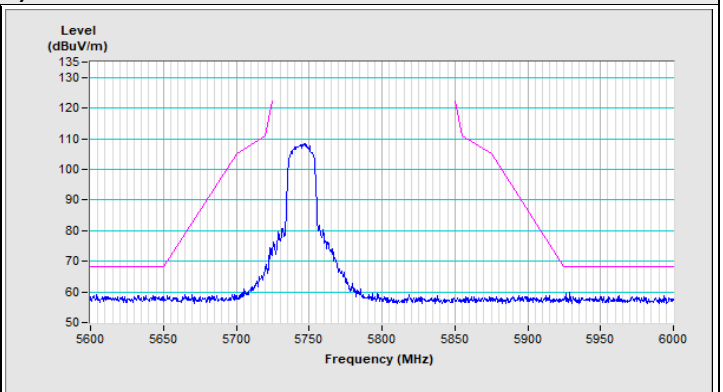
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT20) Channel 149

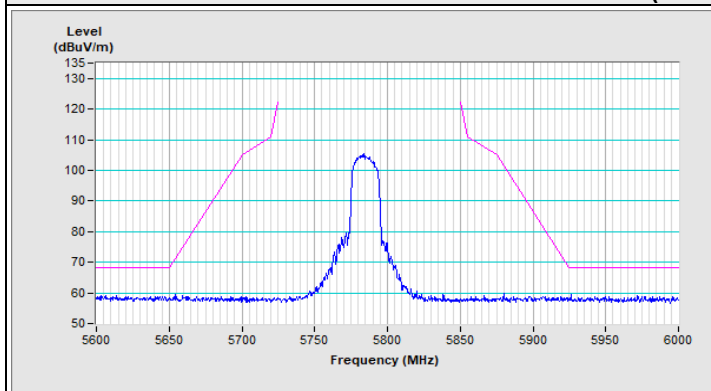


Horizontal (Peak)

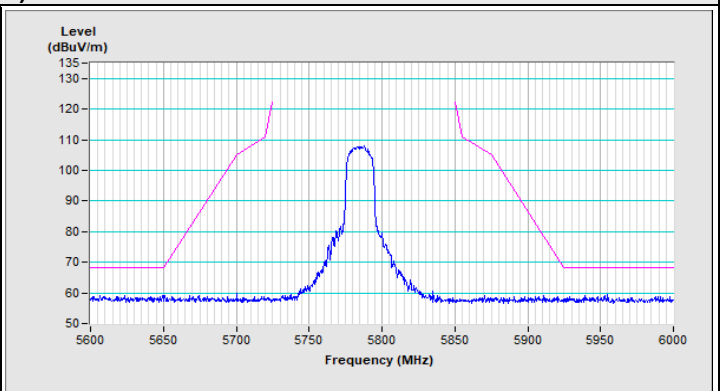


Vertical (Peak)

802.11ac (VHT20) Channel 157

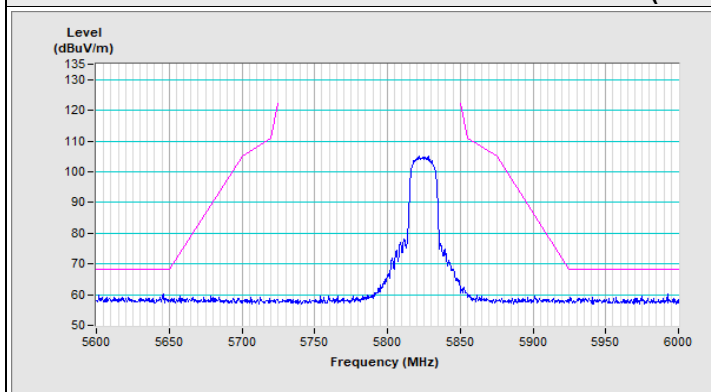


Horizontal (Peak)

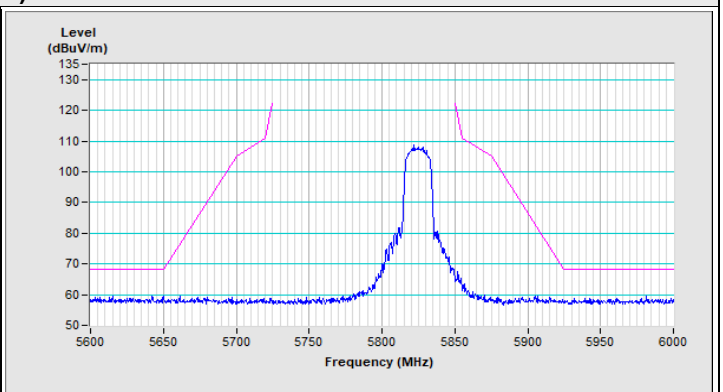


Vertical (Peak)

802.11ac (VHT20) Channel 165



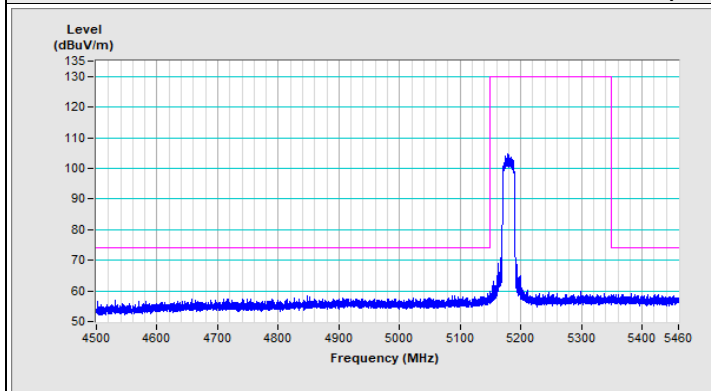
Horizontal (Peak)



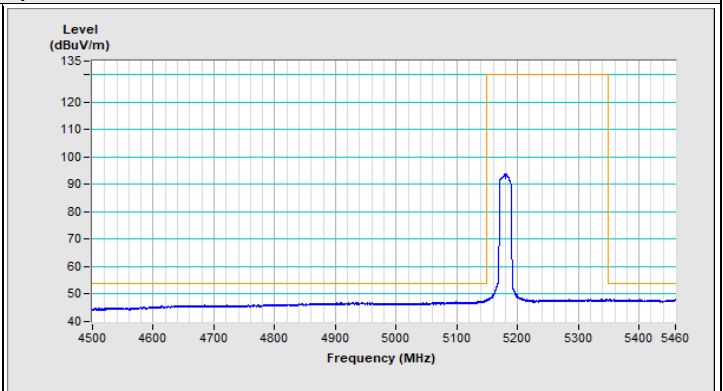
Vertical (Peak)

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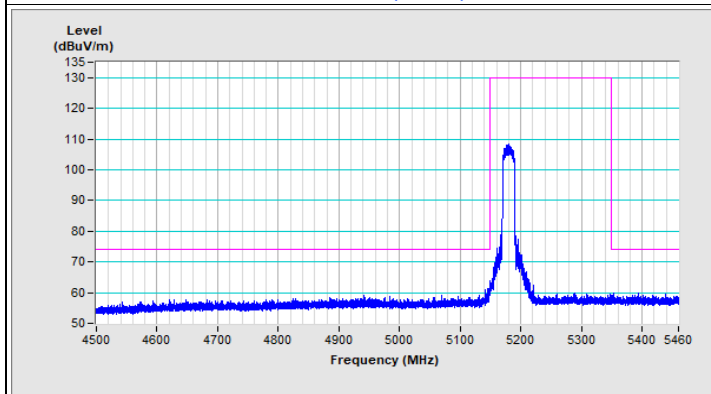
802.11ax (HE20) Channel 36



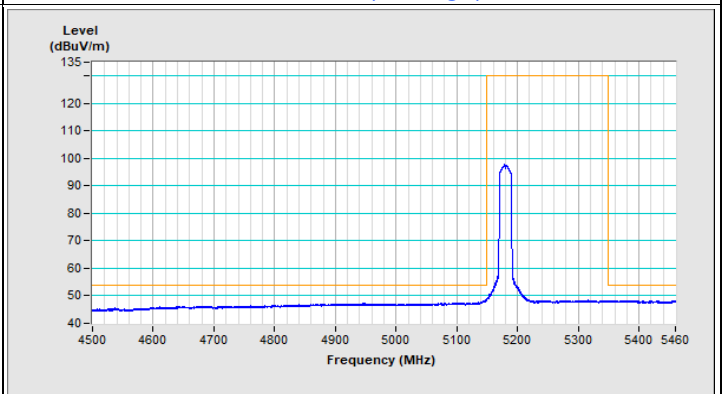
Horizontal (Peak)



Horizontal (Average)

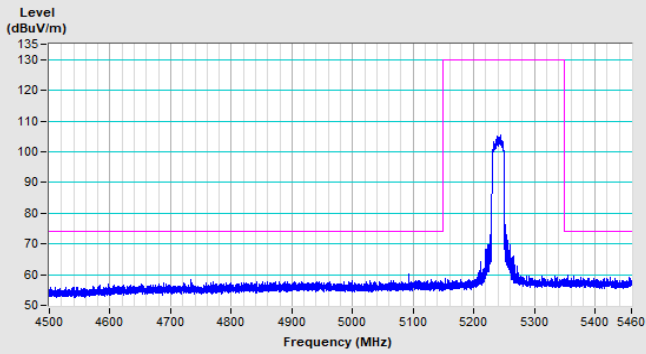


Vertical (Peak)

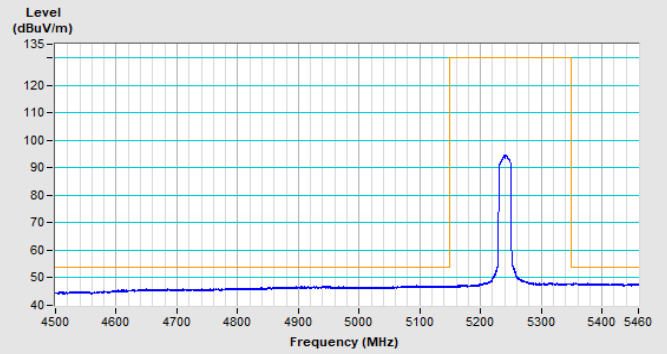


Vertical (Average)

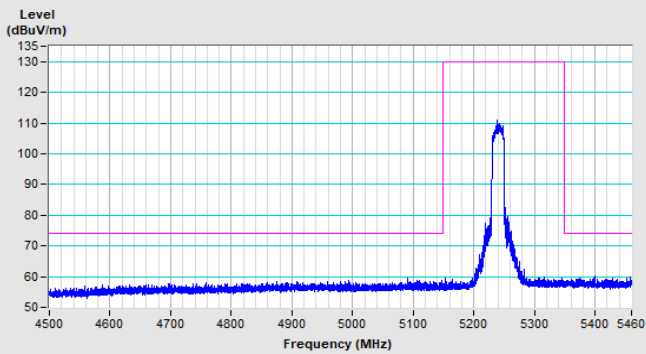
802.11ax (HE20) Channel 48



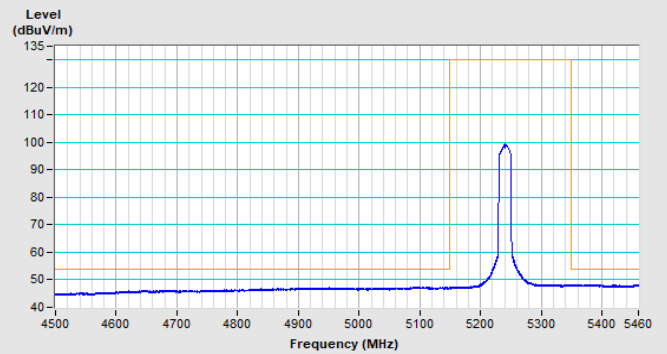
Horizontal (Peak)



Horizontal (Average)

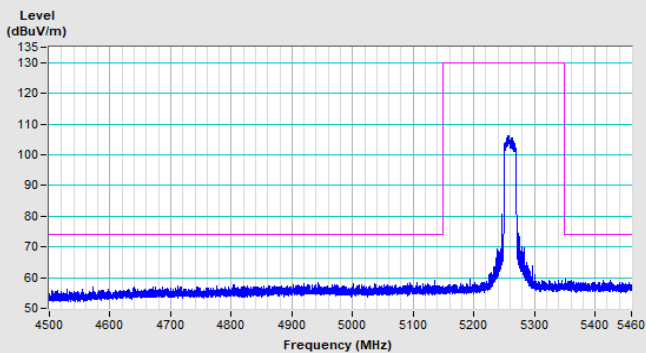


Vertical (Peak)

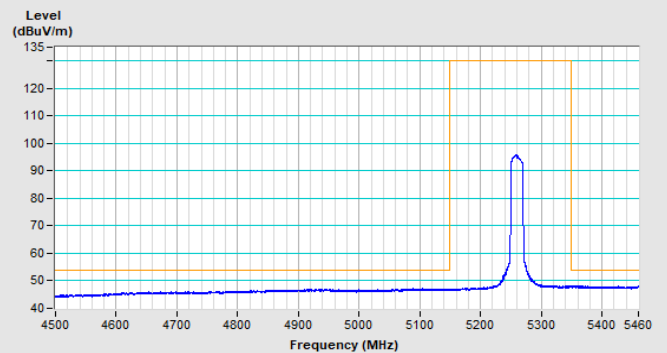


Vertical (Average)

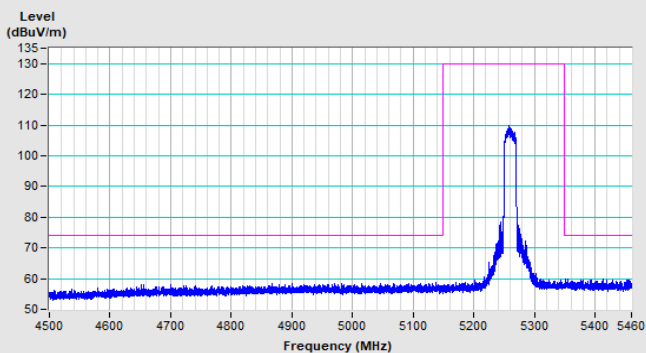
802.11ax (HE20) Channel 52



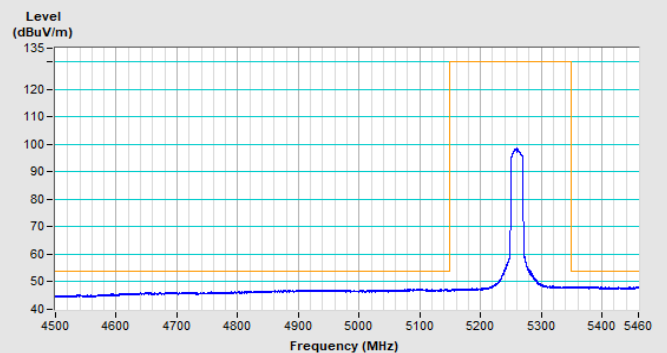
Horizontal (Peak)



Horizontal (Average)

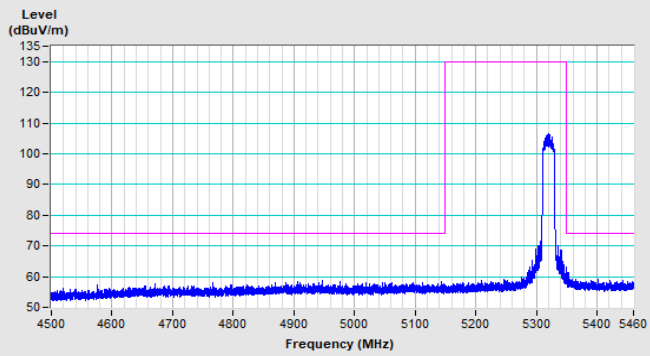


Vertical (Peak)

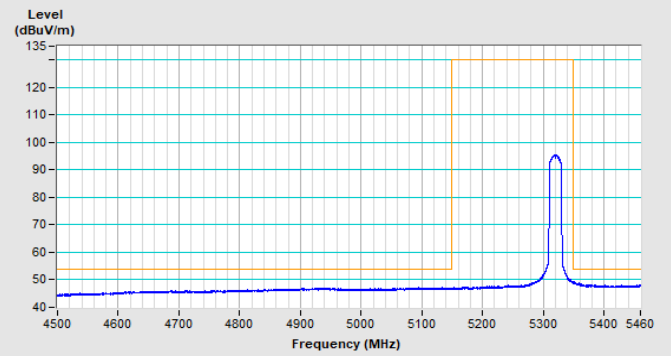


Vertical (Average)

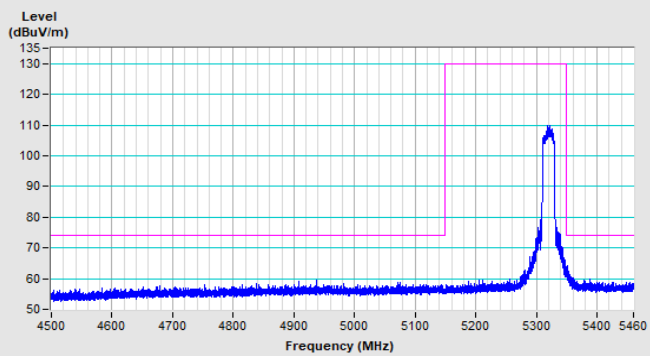
802.11ax (HE20) Channel 64



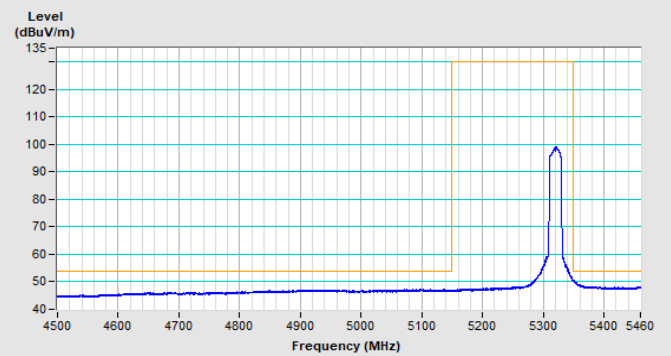
Horizontal (Peak)



Horizontal (Average)



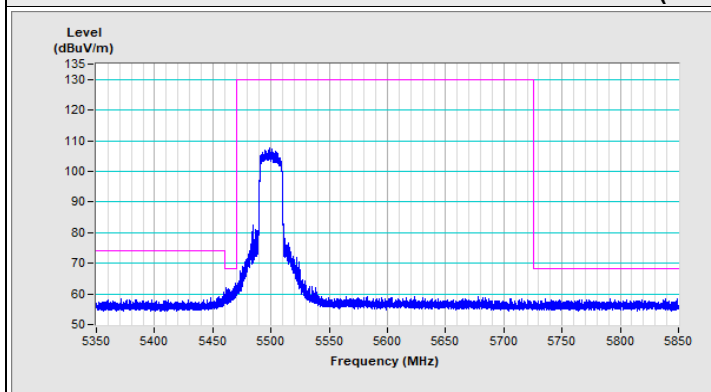
Vertical (Peak)



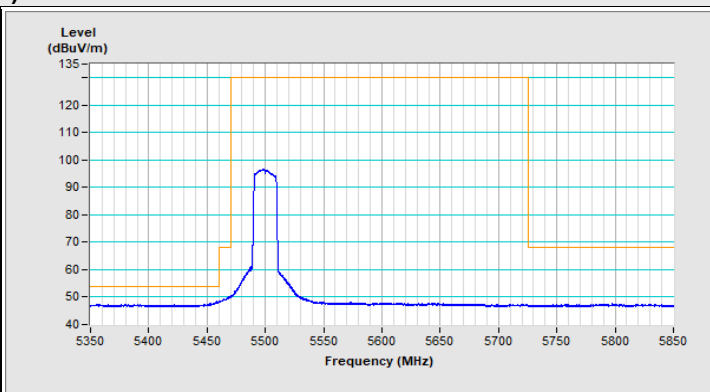
Vertical (Average)

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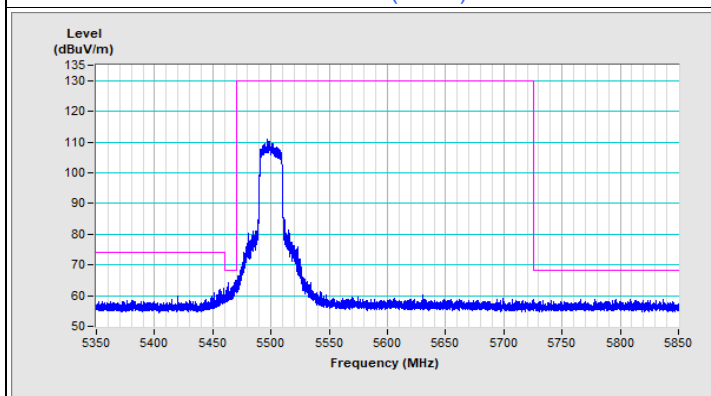
802.11ax (HE20) Channel 100



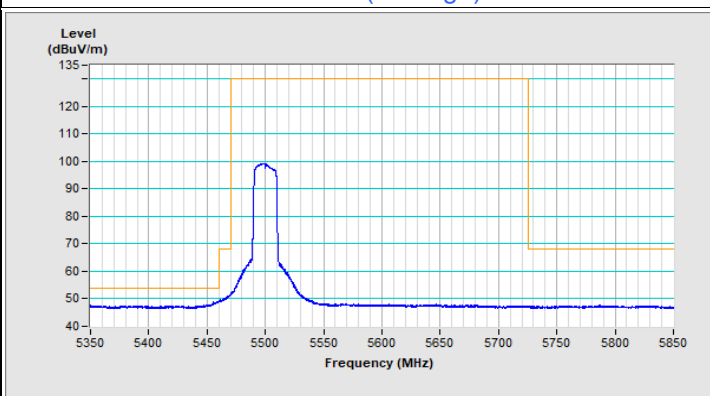
Horizontal (Peak)



Horizontal (Average)

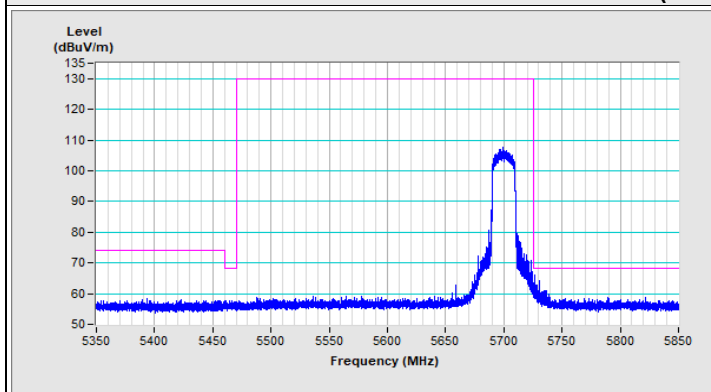


Vertical (Peak)

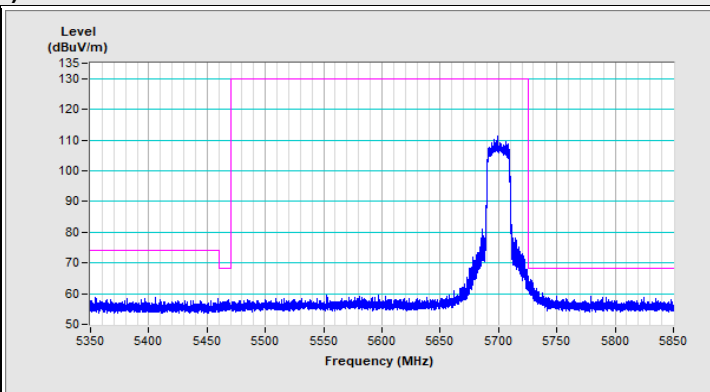


Vertical (Average)

802.11ax (HE20) Channel 140



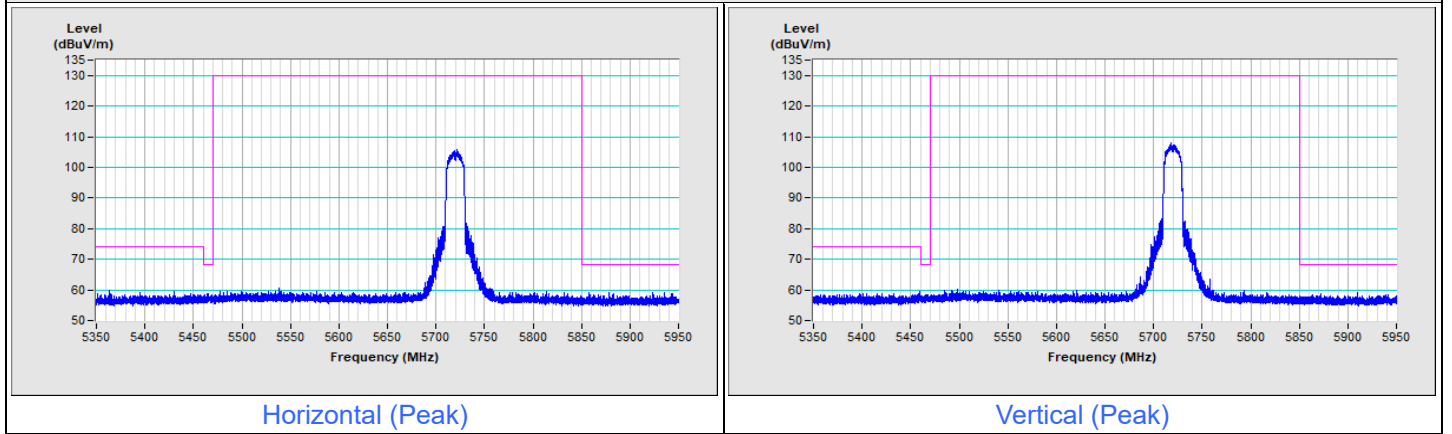
Horizontal (Peak)



Vertical (Peak)

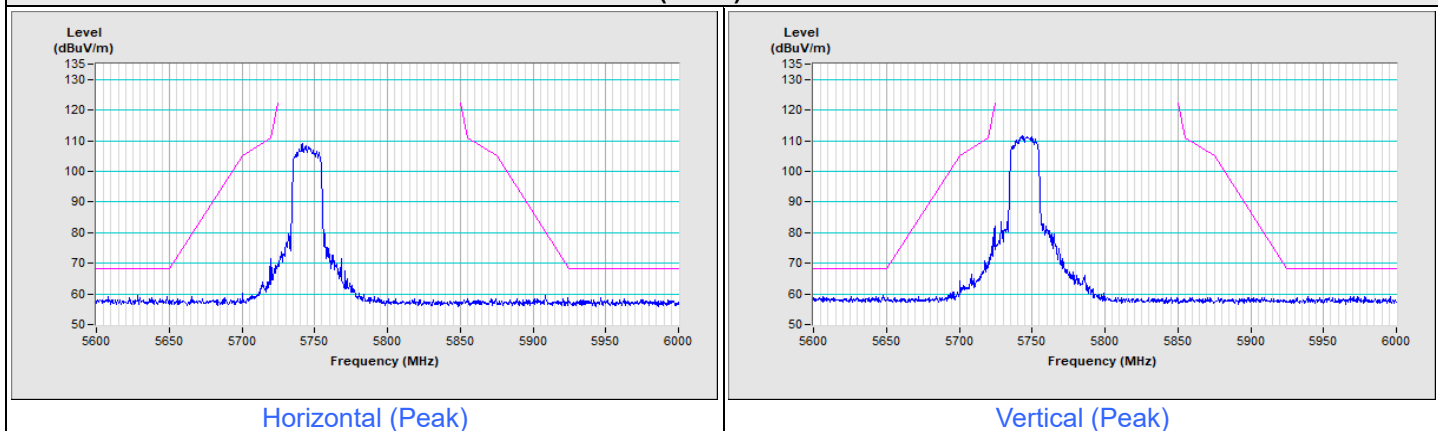
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE20) Channel 144

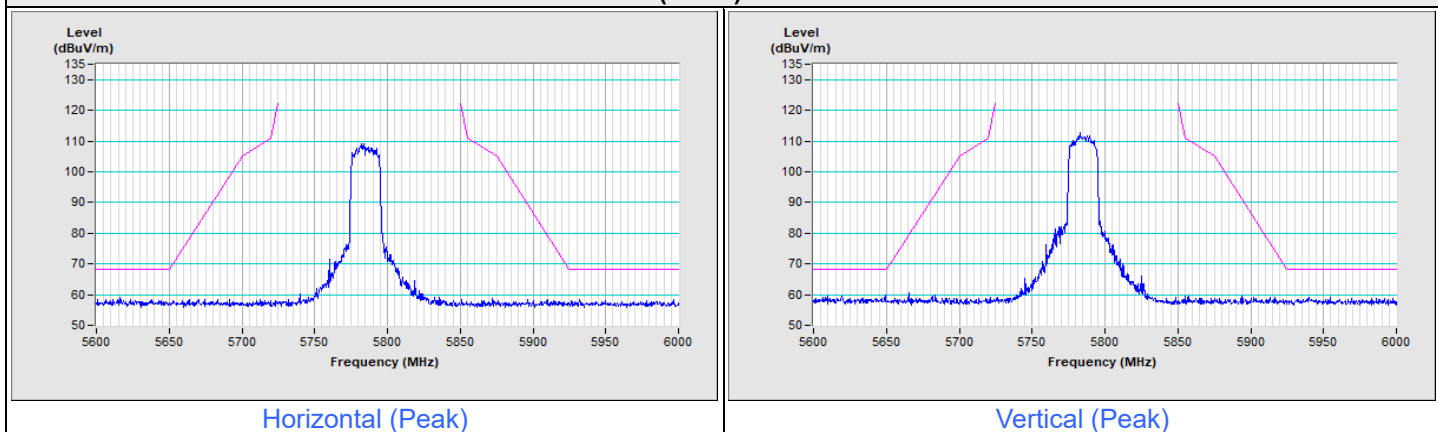


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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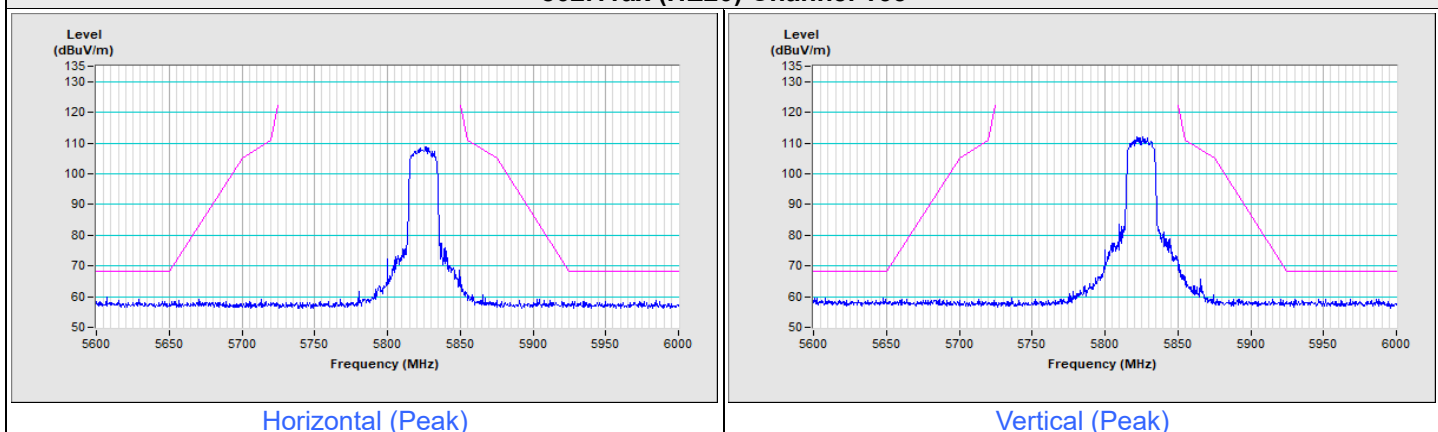
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157



802.11ax (HE20) Channel 165



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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