

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBEKS-WTW-P25050514-1
FCC ID: OXM000155
Product: MiraLogic Connect
Brand: Targus
Model No.: ACA810
Received Date: 2025/5/22
Test Date: 2025/7/22 ~ 2025/8/9
Issued Date: 2025/11/27

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
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Test Location(2): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / 281270 / TW0032 for Test Location(1)
Designation Number: 788550 / TW0003 for Test Location(2)

Approved by: Jeremy Lin, **Date:** 2025/11/27
Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist

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Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List.....	9
3.4 Test Mode Applicability and Tested Channel Detail.....	11
3.5 Duty Cycle of Test Signal.....	13
3.6 Test Program Used and Operation Descriptions	15
3.7 Connection Diagram of EUT and Peripheral Devices	15
3.8 Configuration of Peripheral Devices and Cable Connections	15
4 Test Instruments	16
4.1 26 dB Bandwidth	16
4.2 RF Output Power.....	16
4.3 Power Spectral Density	16
4.4 6 dB Bandwidth	16
4.5 Occupied Bandwidth.....	16
4.6 AC Power Conducted Emissions	17
4.7 Unwanted Emissions below 1 GHz	18
4.8 Unwanted Emissions above 1 GHz.....	19
5 Limits of Test Items.....	20
5.1 26 dB Bandwidth	20
5.2 RF Output Power.....	20
5.3 Power Spectral Density	20
5.4 6 dB Bandwidth	20
5.5 Occupied Bandwidth.....	20
5.6 AC Power Conducted Emissions	21
5.7 Unwanted Emissions below 1 GHz	21
5.8 Unwanted Emissions above 1 GHz.....	22
6 Test Arrangements.....	23
6.1 26 dB Bandwidth	23
6.1.1 Test Setup	23
6.1.2 Test Procedure.....	23
6.2 RF Output Power.....	24
6.2.1 Test Setup	24
6.2.2 Test Procedure.....	24
6.3 Power Spectral Density	25
6.3.1 Test Setup	25
6.3.2 Test Procedure.....	25
6.4 6 dB Bandwidth	26
6.4.1 Test Setup	26
6.4.2 Test Procedure.....	26
6.5 Occupied Bandwidth.....	27
6.5.1 Test Setup	27
6.5.2 Test Procedure.....	27
6.6 AC Power Conducted Emissions	28
6.6.1 Test Setup	28
6.6.2 Test Procedure.....	28
6.7 Unwanted Emissions below 1 GHz	29
6.7.1 Test Setup	29
6.7.2 Test Procedure.....	30

6.8	Unwanted Emissions above 1 GHz.....	31
6.8.1	Test Setup	31
6.8.2	Test Procedure	31
7	Test Results of Test Item	32
7.1	26 dB Bandwidth	32
7.2	RF Output Power.....	36
7.3	Power Spectral Density	49
7.4	6 dB Bandwidth	55
7.5	Occupied Bandwidth.....	57
7.6	AC Power Conducted Emissions	63
7.7	Unwanted Emissions below 1 GHz	65
7.8	Unwanted Emissions above 1 GHz.....	67
8	Pictures of Test Arrangements	139
9	Information of the Testing Laboratories	140

Release Control Record

Issue No.	Description	Date Issued
RFBEKS-WTW-P25050514-1	Original release.	2025/11/27

1 Certificate

Product: MiraLogic Connect

Brand: Targus

Test Model: ACA810

Sample Status: Engineering sample

Applicant: Targus International LLC

Test Date: 2025/7/22 ~ 2025/8/9

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -12.07 dB at 19.96200 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.7 dB at 212.36 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5725.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 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	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	MiraLogic Connect
Brand	Targus
Test Model	ACA810
Status of EUT	Engineering sample
Power Supply Rating	20Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac mode
Modulation Technology	OFDM
Transfer Rate	Up to 866.7 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): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	CDD: 5.18 GHz ~ 5.24 GHz: 221.782 mW (23.46 dBm) 5.26 GHz ~ 5.32 GHz: 156.296 mW (21.94 dBm) 5.5 GHz ~ 5.72 GHz: 160.718 mW (22.06 dBm) 5.745 GHz ~ 5.825 GHz: 626.839 mW (27.97 dBm) Beamforming: 5.18 GHz ~ 5.24 GHz: 221.782 mW (23.46 dBm) 5.26 GHz ~ 5.32 GHz: 112.154 mW (20.50 dBm) 5.5 GHz ~ 5.72 GHz: 111.718 mW (20.48 dBm) 5.745 GHz ~ 5.825 GHz: 626.839 mW (27.97 dBm)
EUT Category	Client device

Note:

1. List of Support unit:

Docking	Brand	Targus
	Model	DOCK182-Q2
	Power Rating	20.0V; 7.50A
AC Adapter	Brand	Chicony
	Model	A18-150P1A
	AC Input	100-240V; 2.0A; 50-60Hz
	DC Output	20.0V; 7.5A; 150.0W
	DC Output Cable	1.76m, 1 core
	Plug	DC Jack

2. The EUT does not support simultaneous transmission on both 2.4GHz and 5GHz WLAN bands.

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

3.2 Antenna Description of EUT

1. The antenna information of EUT is listed as below.

RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range	Antenna Type	Connector Type
ANT1	YAGEO	ANT3216LL11R2455A	4.9	5.15~5.85GHz	Chip	none(like solder)
ANT2	YAGEO	ANT3216LL11R2455A	1.7	5.15~5.85GHz	Chip	none(like solder)

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz) and 802.11ac mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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

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

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

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

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	CDD	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11ac (VHT20)	CDD	165	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ac (VHT20)	CDD	165	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Note: The EUT is designed to be positioned on the Laying only.					

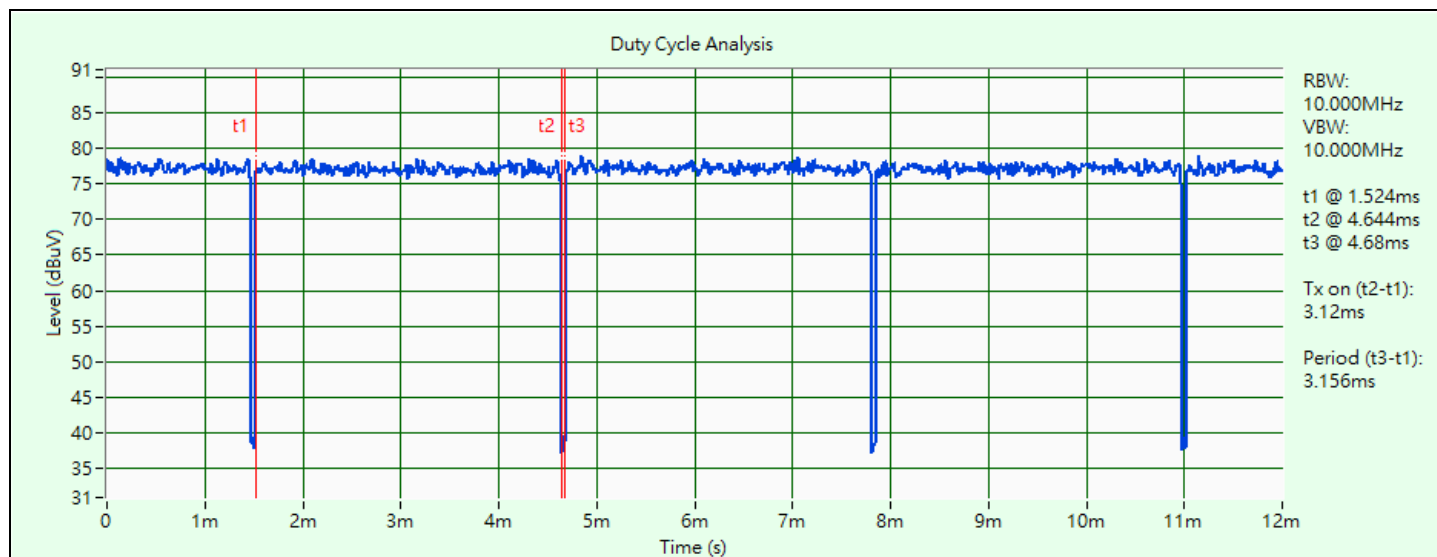
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 3.12 ms / 3.156 ms x 100% = 98.9%

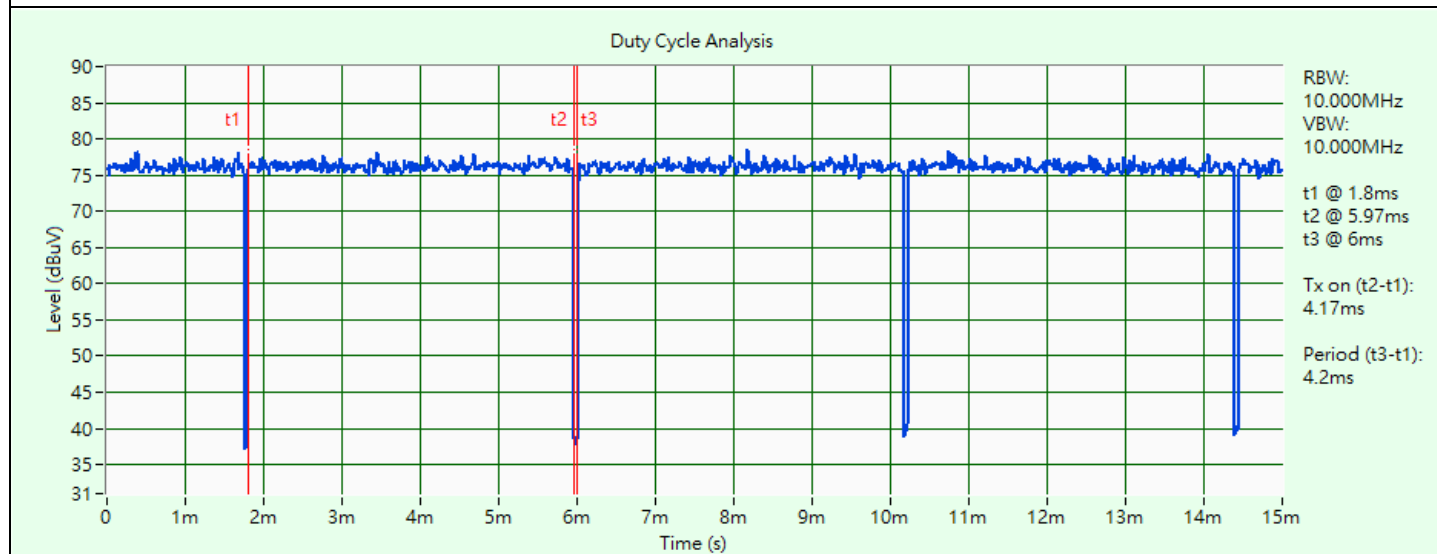
802.11ac (VHT20): Duty cycle = 4.17 ms / 4.2 ms x 100% = 99.3%

802.11ac (VHT40): Duty cycle = 3.975 ms / 4.005 ms x 100% = 99.3%

802.11ac (VHT80): Duty cycle = 5.46 ms / 5.52 ms x 100% = 98.9%

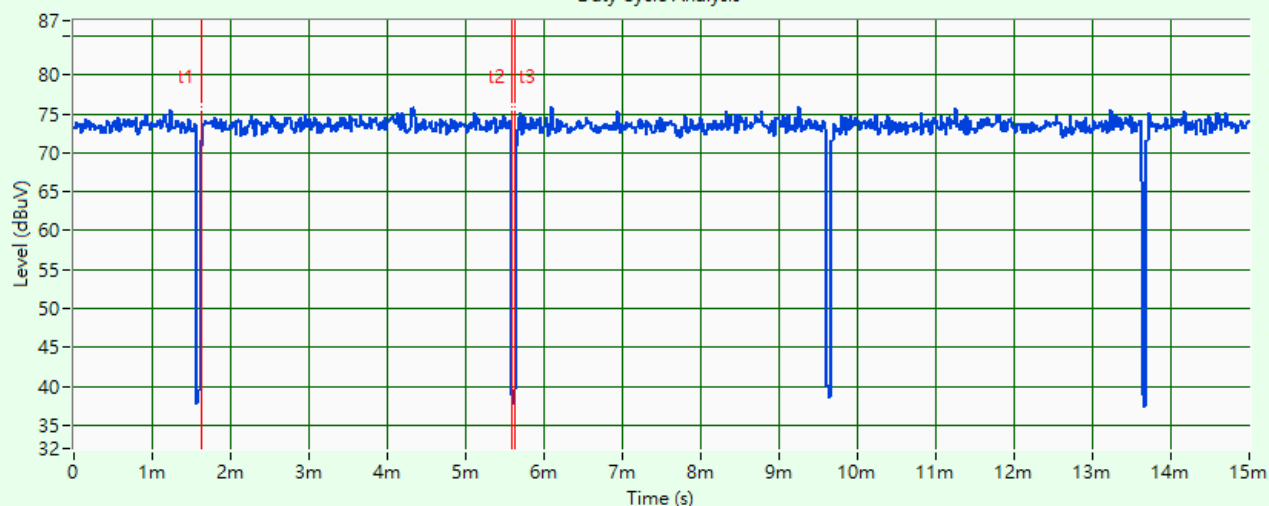


802.11a



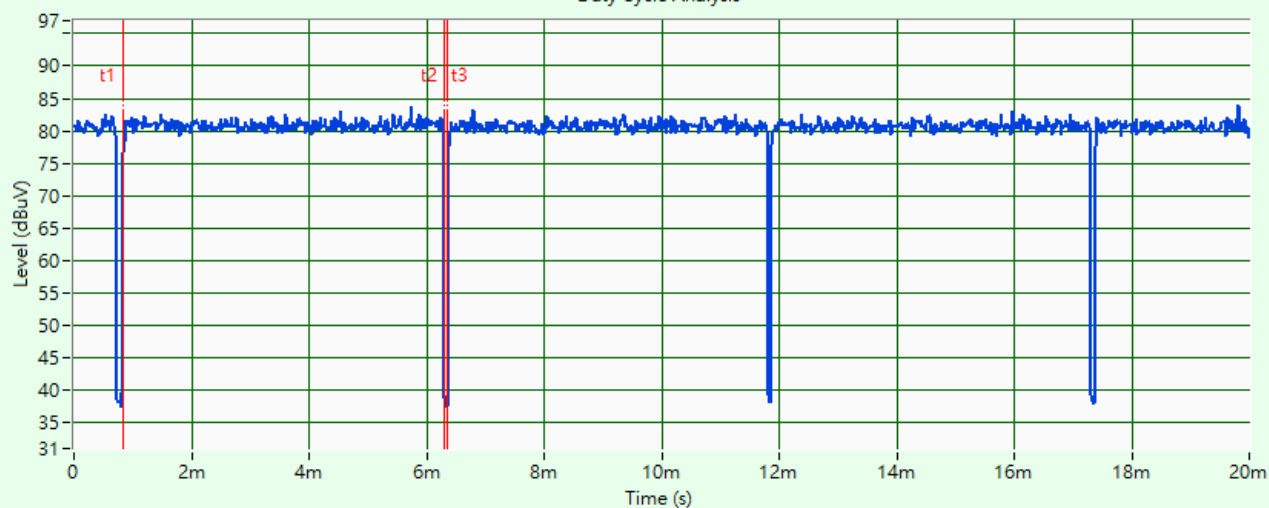
802.11ac (VHT20)

Duty Cycle Analysis



802.11ac (VHT40)

Duty Cycle Analysis

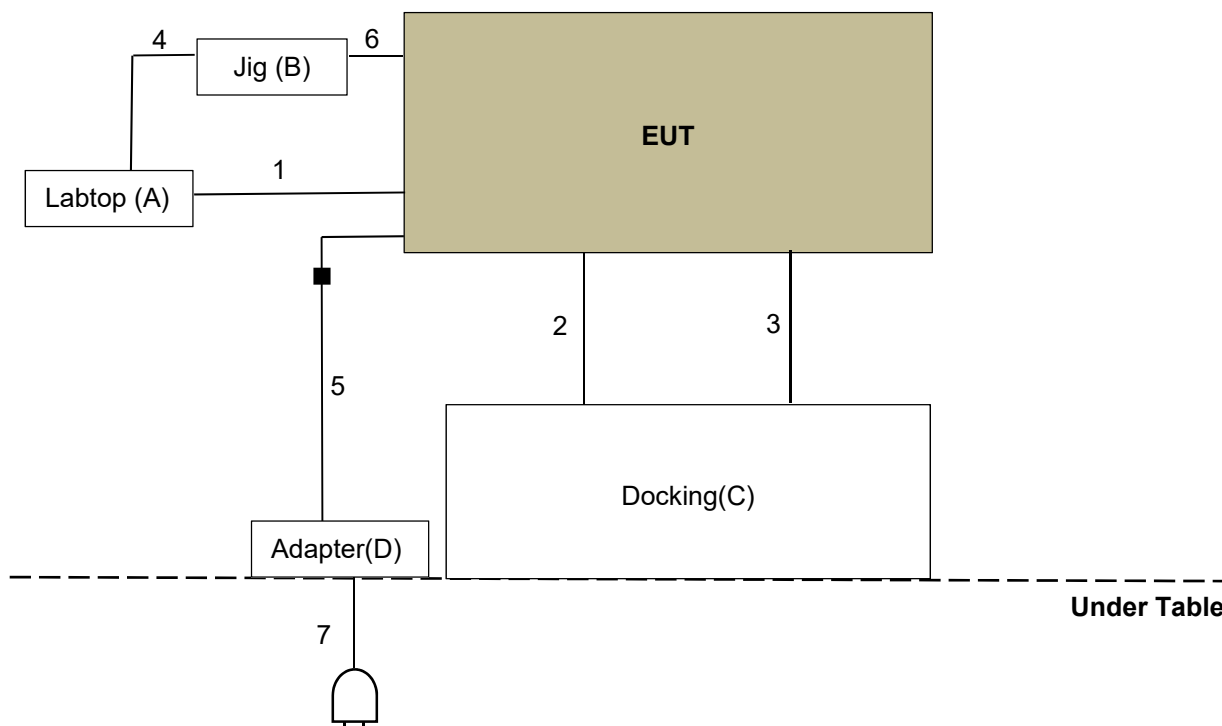


802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

Controlling software QA UI(MT7663) Version 0.0.2.8 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	L470	N/A	N/A	Provided by Lab
B	Jig	N/A	N/A	N/A	N/A	Supplied by applicant
C	Docking	Targus	DOCK182-Q2	N/A	N/A	Supplied by applicant
D	Adapter	Chicony	A18-150P1A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB typeC Cable	1	0.95	Yes	0	Supplied by applicant
2	DC Cable	1	0.6	No	0	Supplied by applicant
3	USB type C Cable	1	0.6	Yes	0	Supplied by applicant
4	RJ-45 Cable	1	1.5	No	0	Provided by Lab
5	DC Cable	1	1.76	No	1	Supplied by applicant
6	Jig Cable	1	0.05	No	0	Supplied by applicant
7	AC Cable	1	1.8	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: 2025/8/9

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
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/8/9

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: 2025/7/25

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2024/10/15	2025/10/14
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC330N	980798	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201249	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201251(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/7/25

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier Agilent	83017A	MY39501357	2025/6/11	2026/6/10
Preamplifier EMCI	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210103	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201241	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201244	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/7/22 ~ 2025/7/24

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	250mW (24 dBm)

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Points	
	Indoor Access Point	
	Client devices	11 dBm/MHz

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

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

Notes:

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

5.7 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

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

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

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

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

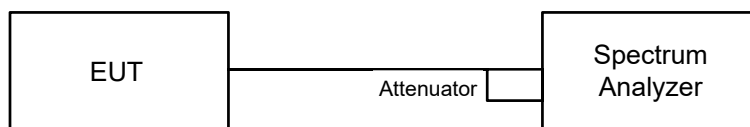
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

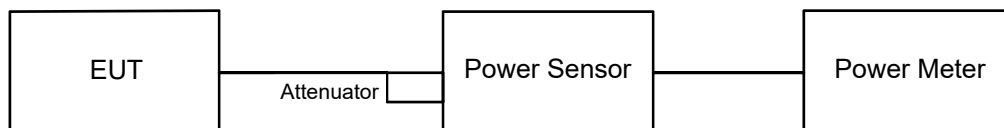


6.1.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

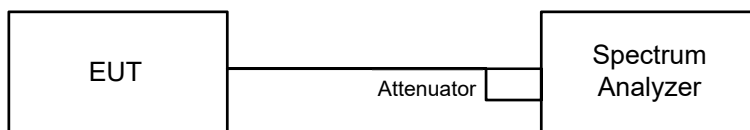
For channel straddling:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 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.
- If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- 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 bandedges. 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-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz,
- Detector = Power averaging (rms).
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq [10 \times (\text{number of points in sweep}) \times (\text{symbol period of the transmitted signal})]$, but not less than the automatic default sweep time.
- The EUT shall be operated at 100% duty cycle.
- Perform a single sweep.
- Record the max value

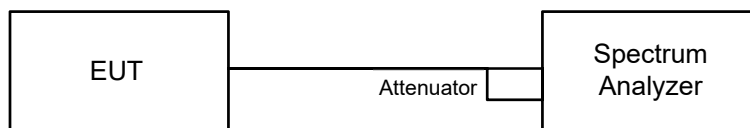
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = Power averaging (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.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

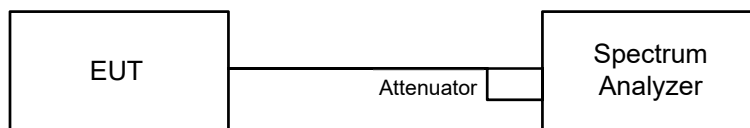


6.4.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. 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



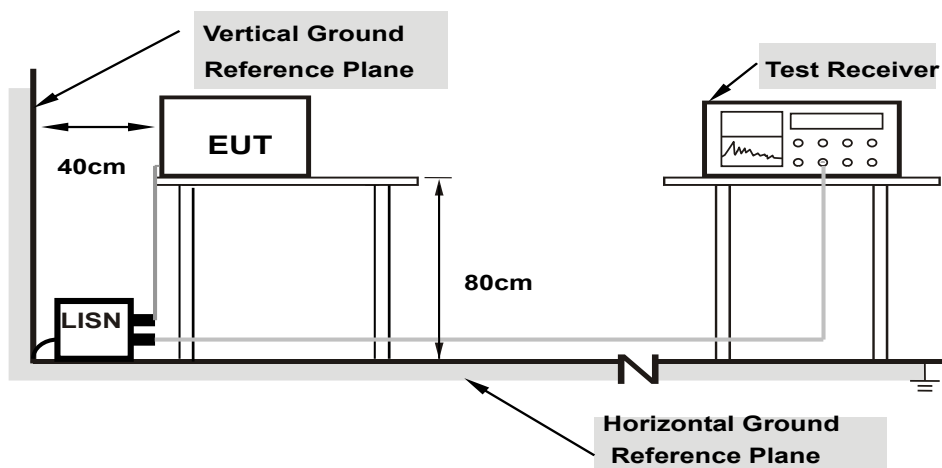
6.5.2 Test Procedure

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:

- a) 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.
- b) 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.
- c) 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 $[10 \log (OBW/RBW)]$ below the reference level.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) 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.
- f) 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

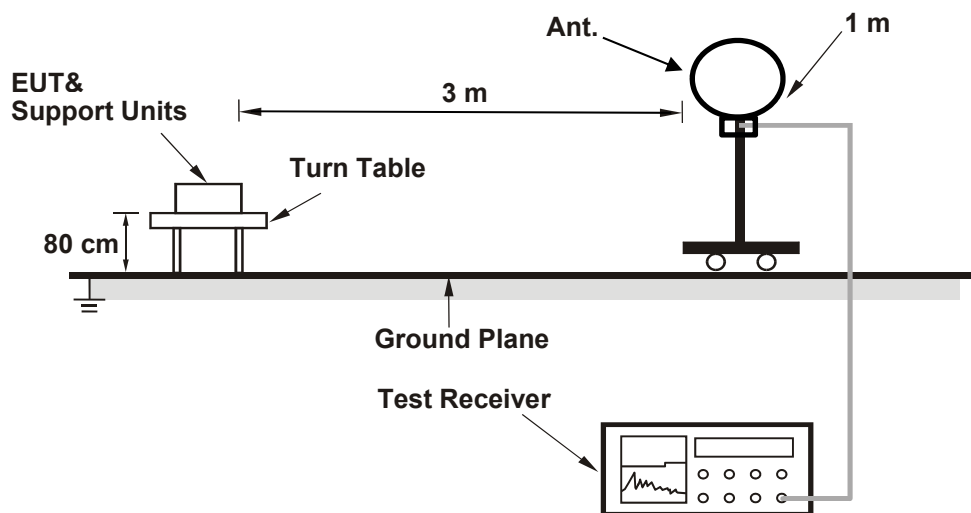
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

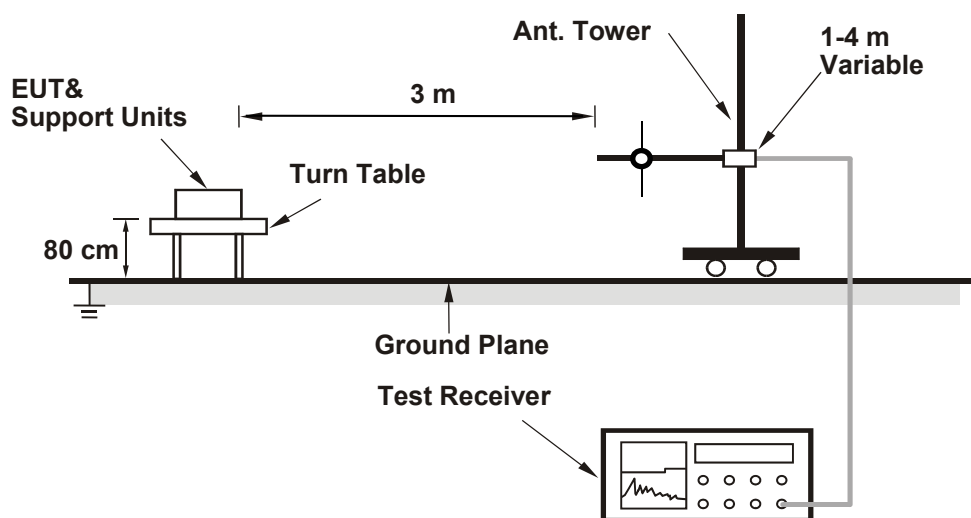
6.7 Unwanted Emissions below 1 GHz

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

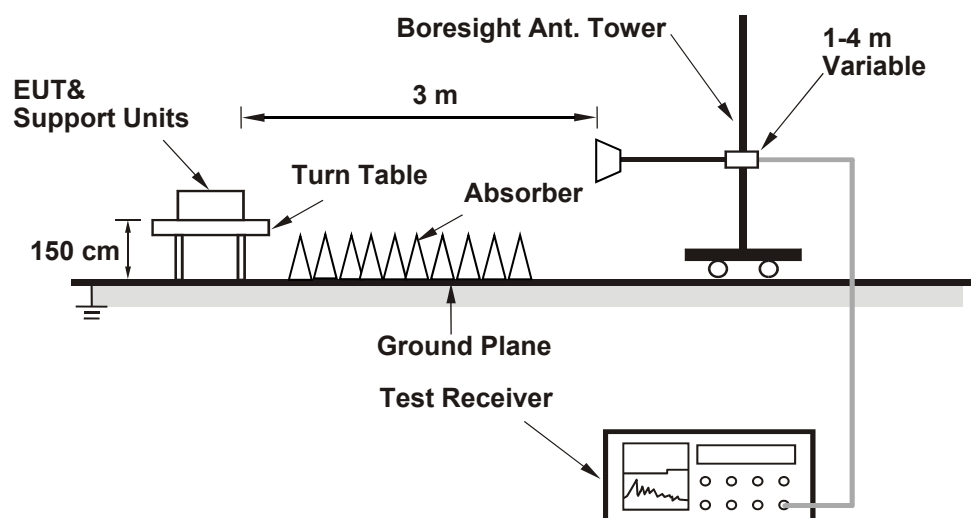
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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:	Ivan Tseng
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.81	20.52
60	5300	20.58	20.50
64	5320	20.38	20.40
100	5500	29.45	20.36
116	5580	26.97	20.78
140	5700	28.69	20.97
144 (U-NII-2C)	5720	19.55	15.23
144 (U-NII-3)	5720	9.49	5.36

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.52	24.12 > 24
60	5300	20.50	24.11 > 24
64	5320	20.38	24.09 > 24
100	5500	20.36	24.08 > 24
116	5580	20.78	24.17 > 24
140	5700	20.97	24.21 > 24
144 (U-NII-2C)	5720	15.23	22.82 < 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)	
		Chain 0	Chain 1
52	5260	27.89	20.80
60	5300	23.99	20.83
64	5320	33.20	20.57
100	5500	38.00	27.49
116	5580	39.23	28.17
140	5700	27.38	20.84
144 (U-NII-2C)	5720	25.35	19.35
144 (U-NII-3)	5720	15.70	8.27

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.80	24.18 > 24
60	5300	20.83	24.18 > 24
64	5320	20.57	24.13 > 24
100	5500	27.49	25.39 > 24
116	5580	28.17	25.49 > 24
140	5700	20.84	24.18 > 24
144 (U-NII-2C)	5720	19.35	23.86 < 24

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

802.11ac (VHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	60.99	41.54
62	5310	76.17	41.01
102	5510	60.05	40.95
110	5550	84.16	67.51
134	5670	73.82	43.00
142 (U-NII-2C)	5710	60.08	48.39
142 (U-NII-3)	5710	29.65	17.34

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.54	27.18 > 24
62	5310	41.01	27.12 > 24
102	5510	40.95	27.12 > 24
110	5550	67.51	29.29 > 24
134	5670	43.00	27.33 > 24
142 (U-NII-2C)	5710	48.39	27.84 > 24

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

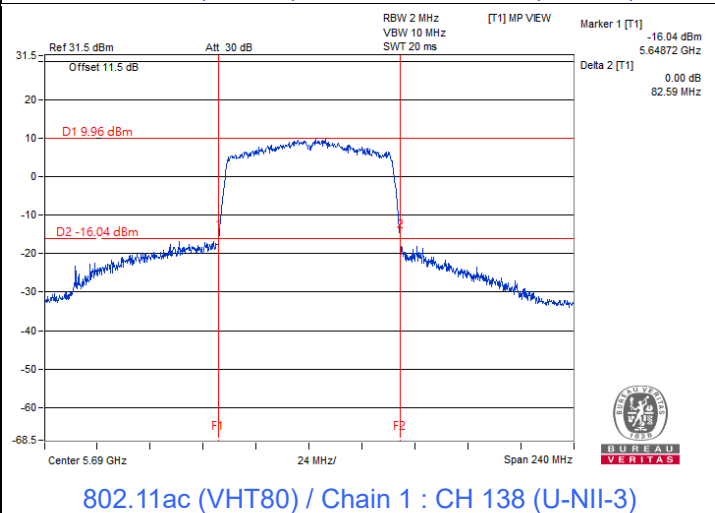
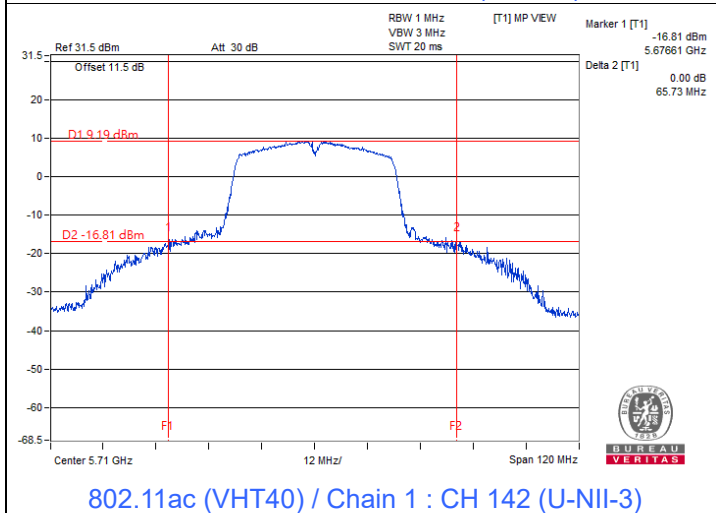
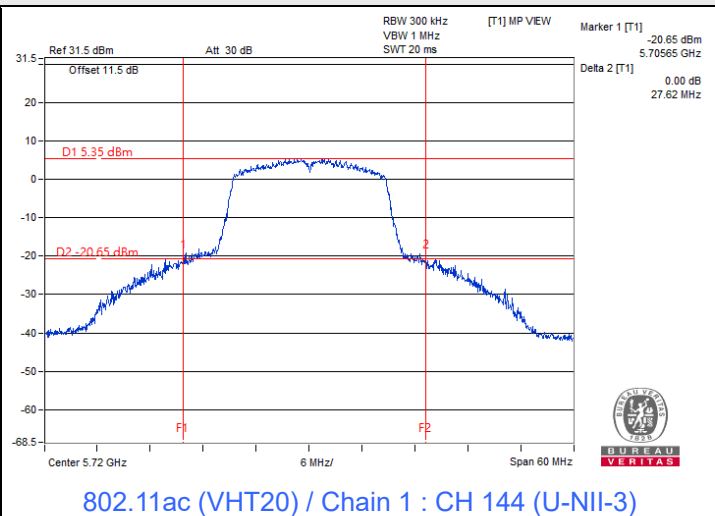
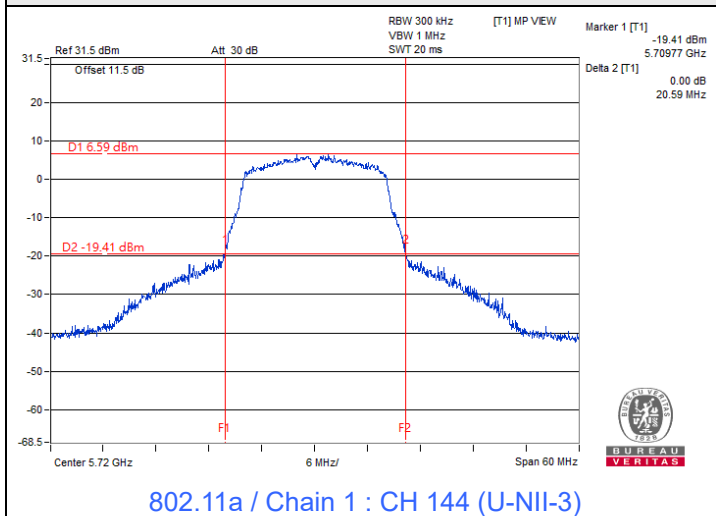
802.11ac (VHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	136.65	81.58
106	5530	81.76	81.49
122	5610	176.87	101.53
138 (U-NII-2C)	5690	121.94	76.28
138 (U-NII-3)	5690	31.06	6.31

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.58	30.11 > 24
106	5530	81.49	30.11 > 24
122	5610	101.53	31.06 > 24
138 (U-NII-2C)	5690	76.28	29.82 > 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:	Ivan Tseng
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.51	17.36	143.781	21.58	24	Pass
40	5200	19.88	17.36	151.725	21.81	24	Pass
48	5240	19.52	16.12	130.463	21.15	24	Pass
52	5260	19.10	16.33	124.237	20.94	24	Pass
60	5300	17.69	15.90	97.653	19.90	24	Pass
64	5320	17.59	16.05	97.683	19.90	24	Pass
100	5500	19.12	18.45	151.642	21.81	24	Pass
116	5580	19.32	18.59	157.784	21.98	24	Pass
140	5700	19.34	18.74	160.718	22.06	24	Pass
*144 (U-NII-2C)	5720	18.80	17.22	128.581	21.09	22.82	Pass
*144 (U-NII-3)	5720	11.34	10.34	24.429	13.88	30	Pass
149	5745	24.45	24.74	576.464	27.61	30	Pass
157	5785	23.79	24.52	522.471	27.18	30	Pass
165	5825	24.25	25.34	608.052	27.84	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.87	16.26	119.414	20.77	24	Pass
40	5200	19.69	17.40	148.135	21.71	24	Pass
48	5240	20.77	17.45	175.114	22.43	24	Pass
52	5260	18.36	16.18	110.018	20.41	24	Pass
60	5300	17.43	15.67	92.213	19.65	24	Pass
64	5320	18.63	17.55	129.834	21.13	24	Pass
100	5500	19.05	18.28	147.65	21.69	24	Pass
116	5580	19.28	18.48	155.192	21.91	24	Pass
140	5700	18.59	17.97	134.921	21.30	24	Pass
*144 (U-NII-2C)	5720	18.31	17.35	122.089	20.87	23.86	Pass
*144 (U-NII-3)	5720	11.28	10.18	23.851	13.78	30	Pass
149	5745	23.52	24.42	501.894	27.01	30	Pass
157	5785	23.92	24.34	518.101	27.14	30	Pass
165	5825	24.21	25.47	616.106	27.90	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.11	17.89	164.041	22.15	24	Pass
46	5230	21.69	18.44	217.502	23.37	24	Pass
54	5270	19.78	17.70	153.945	21.87	24	Pass
62	5310	19.45	18.12	152.968	21.85	24	Pass
102	5510	18.41	18.47	139.604	21.45	24	Pass
110	5550	19.02	18.48	150.269	21.77	24	Pass
134	5670	17.95	19.41	149.671	21.75	24	Pass
*142 (U-NII-2C)	5710	18.67	18.26	140.609	21.48	24	Pass
*142 (U-NII-3)	5710	6.28	6.48	8.693	9.39	30	Pass
151	5755	23.77	24.14	497.976	26.97	30	Pass
159	5795	23.83	24.25	507.699	27.06	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.97	16.33	121.84	20.86	24	Pass
40	5200	19.76	17.47	150.471	21.77	24	Pass
48	5240	20.87	17.52	178.674	22.52	24	Pass
52	5260	18.45	16.25	112.154	20.50	24	Pass
60	5300	17.52	15.77	94.251	19.74	24	Pass
64	5320	18.70	17.64	132.207	21.21	24	Pass
100	5500	19.09	18.31	148.86	21.73	24	Pass
116	5580	19.31	18.52	156.431	21.94	24	Pass
140	5700	18.68	18.05	137.617	21.39	24	Pass
*144 (U-NII-2C)	5720	18.41	17.42	124.55	20.95	23.86	Pass
*144 (U-NII-3)	5720	11.33	10.22	24.103	13.82	30	Pass
149	5745	23.60	24.50	510.925	27.08	30	Pass
157	5785	23.98	24.42	526.729	27.22	30	Pass
165	5825	24.28	25.55	626.839	27.97	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.20	17.98	167.519	22.24	24	Pass
46	5230	21.78	18.52	221.782	23.46	24	Pass
54	5270	19.81	17.74	155.149	21.91	24	Pass
62	5310	19.48	18.15	154.029	21.88	24	Pass
102	5510	18.48	18.55	142.084	21.53	24	Pass
110	5550	19.05	18.51	151.31	21.80	24	Pass
134	5670	17.99	19.45	151.056	21.79	24	Pass
*142 (U-NII-2C)	5710	18.74	18.33	142.894	21.55	24	Pass
*142 (U-NII-3)	5710	6.34	6.54	8.813	9.45	30	Pass
151	5755	23.87	24.23	508.631	27.06	30	Pass
159	5795	23.93	24.33	518.192	27.14	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	20.10	17.69	161.078	22.07	24	Pass
58	5290	19.78	17.87	156.296	21.94	24	Pass
106	5530	16.19	16.59	87.195	19.40	24	Pass
122	5610	19.43	18.48	158.169	21.99	24	Pass
*138 (U-NII-2C)	5690	18.07	19.60	155.322	21.91	24	Pass
*138 (U-NII-3)	5690	1.83	3.83	3.94	5.95	30	Pass
155	5775	21.97	22.37	329.982	25.18	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.9 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.87	16.26	119.414	20.77	23.54	Pass
40	5200	19.69	17.40	148.135	21.71	23.54	Pass
48	5240	20.77	17.45	175.114	22.43	23.54	Pass
52	5260	18.36	16.18	110.018	20.41	23.54	Pass
60	5300	17.43	15.67	92.213	19.65	23.54	Pass
64	5320	17.58	16.00	97.09	19.87	23.54	Pass
100	5500	17.17	16.70	98.882	19.95	23.54	Pass
116	5580	17.33	16.94	103.474	20.15	23.54	Pass
140	5700	16.88	16.23	90.717	19.58	23.54	Pass
*144 (U-NII-2C)	5720	15.72	15.02	69.094	18.39	23.4	Pass
*144 (U-NII-3)	5720	9.02	8.02	14.319	11.56	29.54	Pass
149	5745	23.52	24.42	501.894	27.01	29.54	Pass
157	5785	23.92	24.34	518.101	27.14	29.54	Pass
165	5825	24.21	25.47	616.106	27.90	29.54	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.46 - 6) = 23.54$ dBm.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm.

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.11	17.89	164.041	22.15	23.54	Pass
46	5230	21.69	18.44	217.502	23.37	23.54	Pass
54	5270	18.28	16.25	109.467	20.39	23.54	Pass
62	5310	17.98	16.48	107.269	20.30	23.54	Pass
102	5510	16.75	16.91	96.406	19.84	23.54	Pass
110	5550	17.25	16.83	101.283	20.06	23.54	Pass
134	5670	16.42	17.71	102.873	20.12	23.54	Pass
*142 (U-NII-2C)	5710	17.02	16.66	96.695	19.85	23.54	Pass
*142 (U-NII-3)	5710	4.41	4.88	5.837	7.66	29.54	Pass
151	5755	23.77	24.14	497.976	26.97	29.54	Pass
159	5795	23.83	24.25	507.699	27.06	29.54	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.46 - 6) = 23.54$ dBm.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.97	16.33	121.84	20.86	23.54	Pass
40	5200	19.76	17.47	150.471	21.77	23.54	Pass
48	5240	20.87	17.52	178.674	22.52	23.54	Pass
52	5260	18.45	16.25	112.154	20.50	23.54	Pass
60	5300	17.52	15.77	94.251	19.74	23.54	Pass
64	5320	17.61	16.53	102.655	20.11	23.54	Pass
100	5500	17.26	16.79	100.964	20.04	23.54	Pass
116	5580	17.42	17.00	105.326	20.23	23.54	Pass
140	5700	16.97	16.31	92.53	19.66	23.54	Pass
*144 (U-NII-2C)	5720	15.78	15.14	70.503	18.48	23.4	Pass
*144 (U-NII-3)	5720	9.12	8.10	14.622	11.65	29.54	Pass
149	5745	23.60	24.50	510.925	27.08	29.54	Pass
157	5785	23.98	24.42	526.729	27.22	29.54	Pass
165	5825	24.28	25.55	626.839	27.97	29.54	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.46 - 6) = 23.54$ dBm.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.20	17.98	167.519	22.24	23.54	Pass
46	5230	21.78	18.52	221.782	23.46	23.54	Pass
54	5270	18.31	16.29	110.324	20.43	23.54	Pass
62	5310	18.00	16.58	108.595	20.36	23.54	Pass
102	5510	16.85	17.02	98.767	19.95	23.54	Pass
110	5550	17.42	16.95	104.753	20.20	23.54	Pass
134	5670	16.46	17.79	104.376	20.19	23.54	Pass
*142 (U-NII-2C)	5710	17.11	16.73	98.502	19.93	23.54	Pass
*142 (U-NII-3)	5710	4.45	4.92	5.891	7.70	29.54	Pass
151	5755	23.87	24.23	508.631	27.06	29.54	Pass
159	5795	23.93	24.33	518.192	27.14	29.54	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.46 - 6) = 23.54$ dBm.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm.

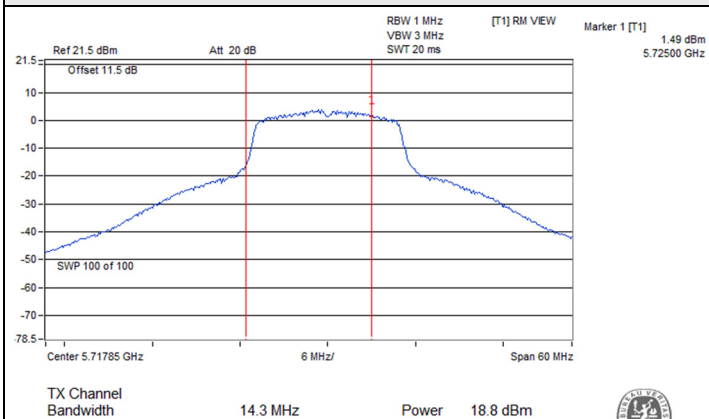
802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	20.10	17.69	161.078	22.07	23.54	Pass
58	5290	18.23	16.34	109.58	20.40	23.54	Pass
106	5530	14.60	15.02	60.609	17.83	23.54	Pass
122	5610	17.92	16.97	111.718	20.48	23.54	Pass
*138 (U-NII-2C)	5690	16.49	17.93	106.653	20.28	23.54	Pass
*138 (U-NII-3)	5690	0.15	2.19	2.691	4.30	29.54	Pass
155	5775	21.97	22.37	329.982	25.18	29.54	Pass

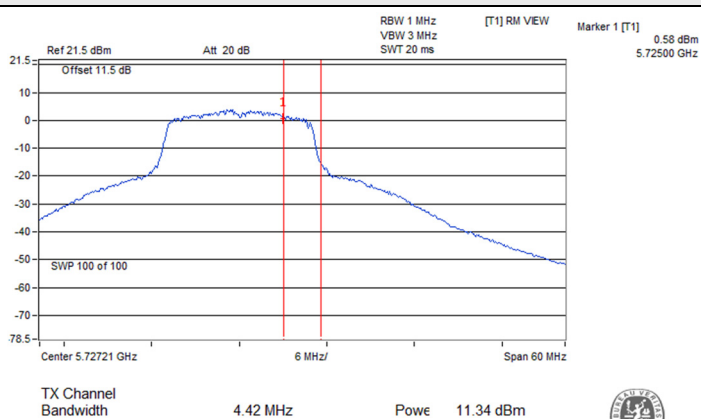
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $24 - (6.46 - 6) = 23.54$ dBm.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.46 - 6)].
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm.

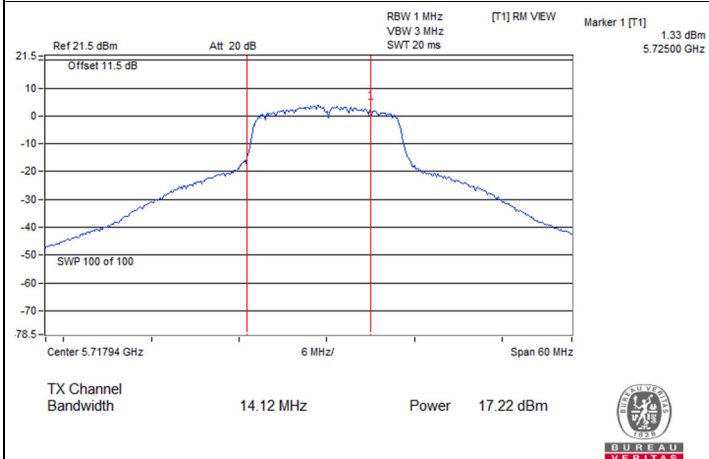
Spectrum Plot for channel straddling



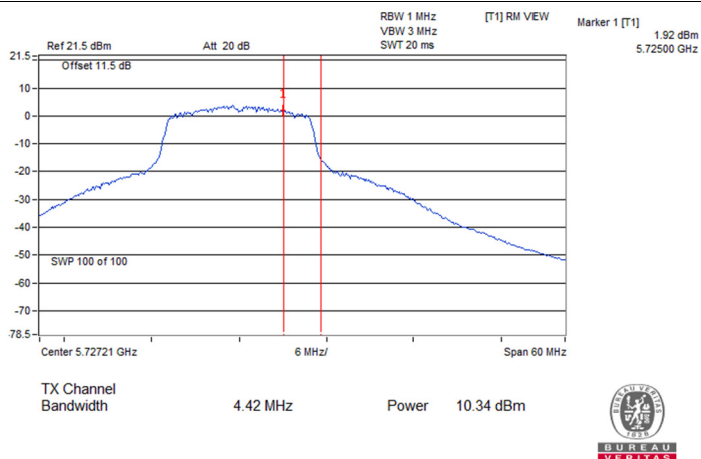
802.11a / Chain 0 : CH 144 (U-NII-2C)



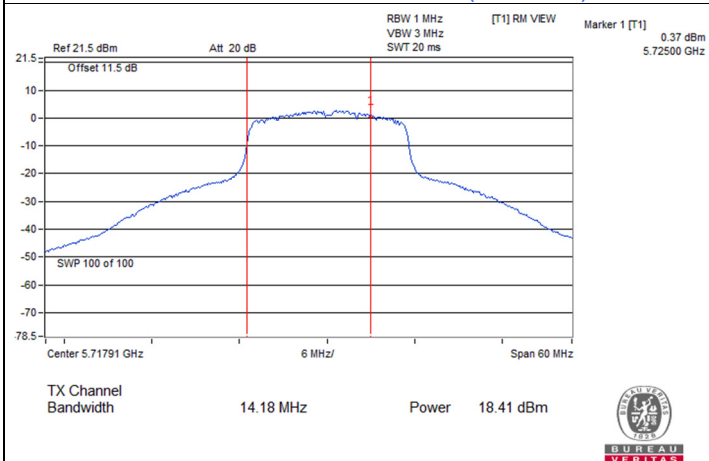
802.11a / Chain 0 : CH 144 (U-NII-3)



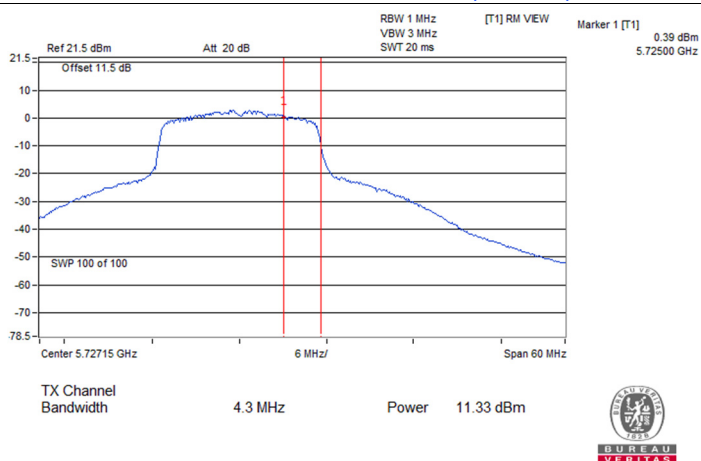
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

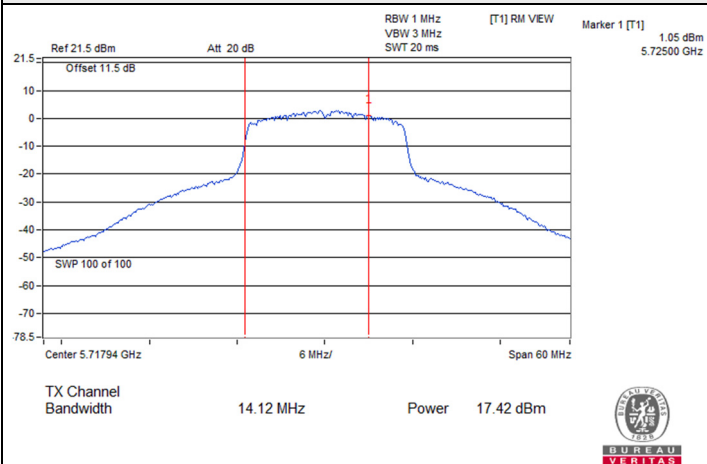


802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-2C)

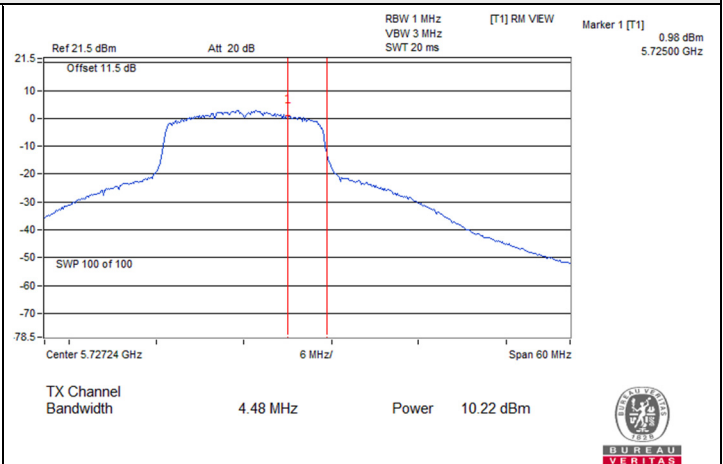


802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)

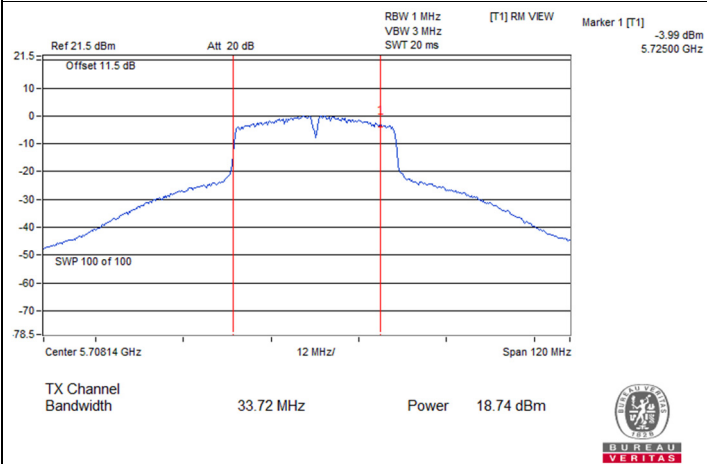
Spectrum Plot for channel straddling



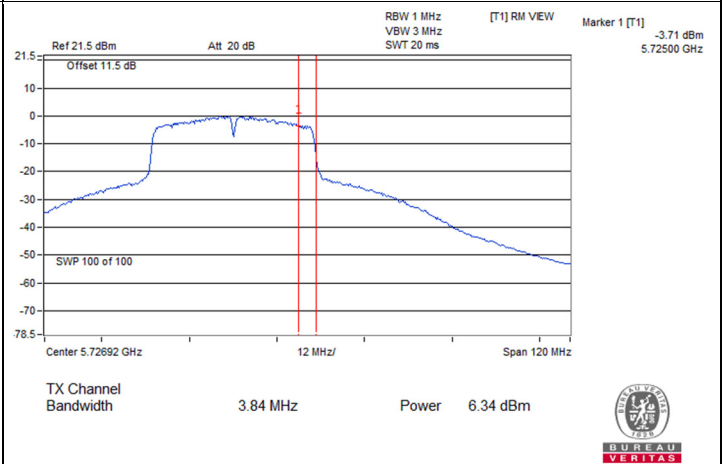
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-2C)



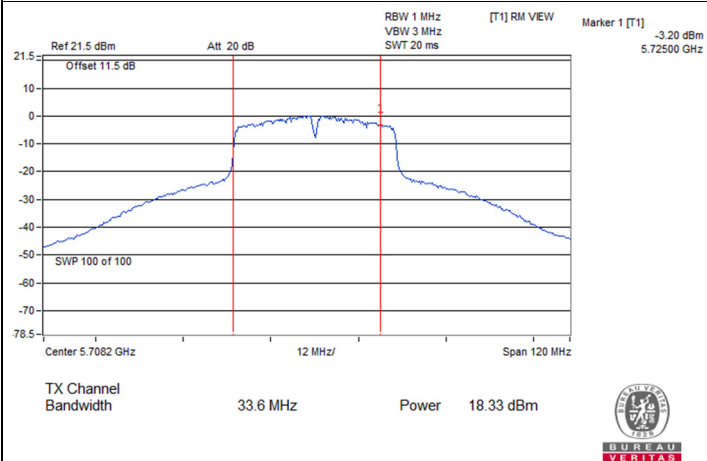
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-3)



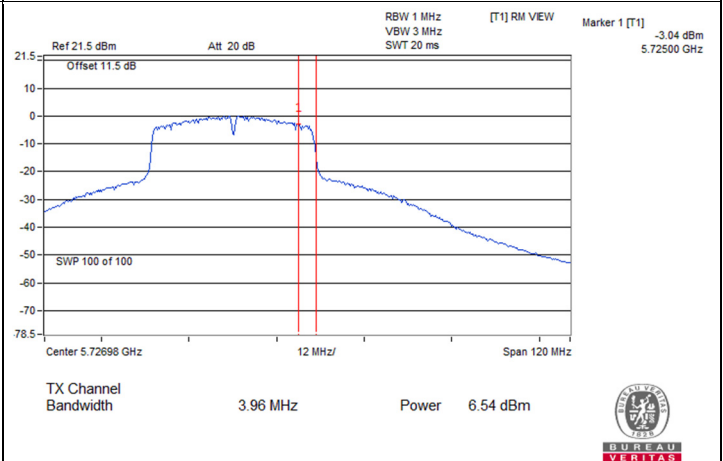
802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-2C)



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

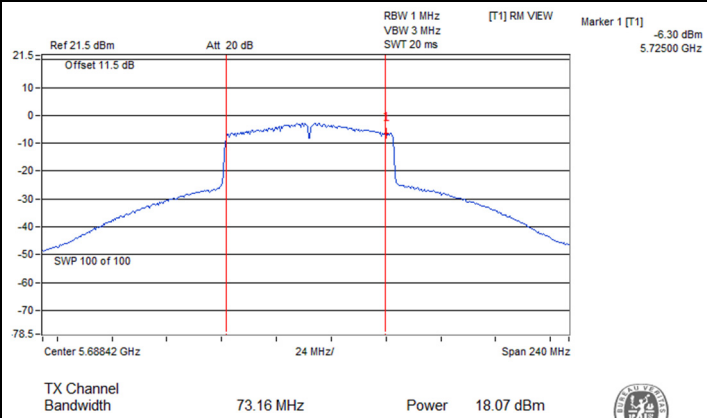


802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-2C)

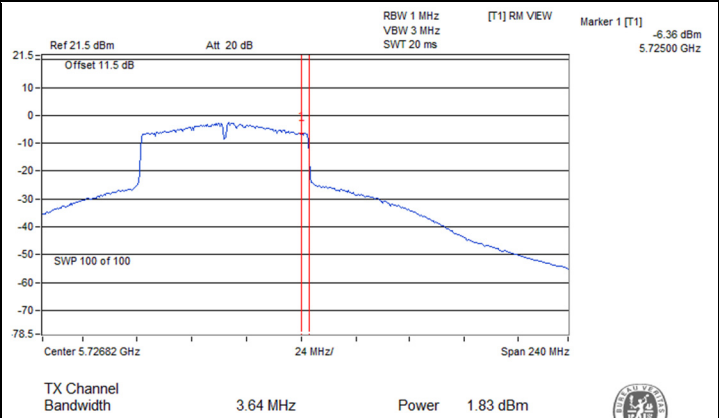


802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-3)

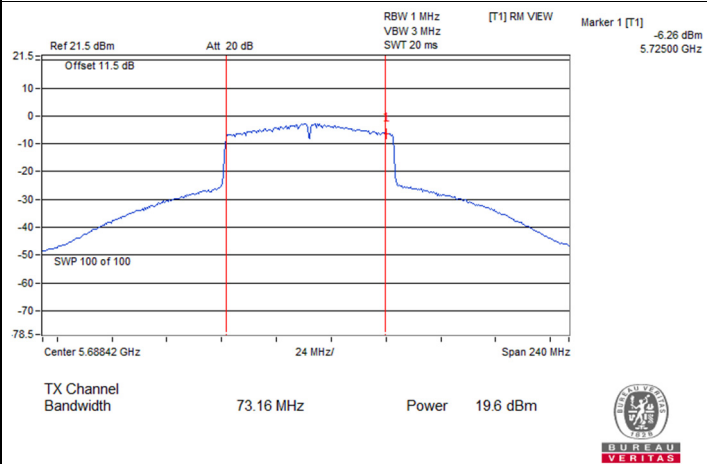
Spectrum Plot for channel straddling



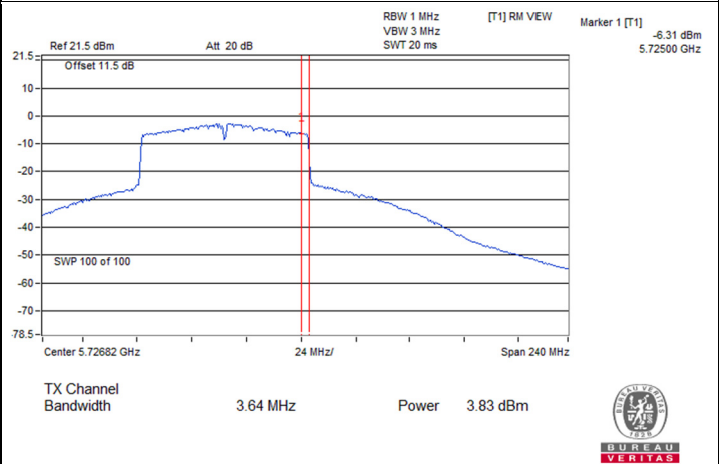
802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-2C)



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



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



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

7.3 Power Spectral Density

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

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	6.12	3.77	8.11	10.54	Pass
40	5200	6.45	3.76	8.32	10.54	Pass
48	5240	6.13	2.46	7.68	10.54	Pass
52	5260	5.67	2.51	7.38	10.54	Pass
60	5300	4.22	2.55	6.48	10.54	Pass
64	5320	4.09	2.67	6.45	10.54	Pass
100	5500	5.50	4.90	8.22	10.54	Pass
116	5580	5.80	5.07	8.46	10.54	Pass
140	5700	7.03	5.17	9.21	10.54	Pass
144 (U-NII-2C)	5720	7.28	6.33	9.84	10.54	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 6.46 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
- For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.45	2.83	7.34	10.54	Pass
40	5200	6.24	4.06	8.30	10.54	Pass
48	5240	7.26	4.13	8.98	10.54	Pass
52	5260	4.90	2.72	6.96	10.54	Pass
60	5300	3.98	2.34	6.25	10.54	Pass
64	5320	5.12	4.16	7.68	10.54	Pass
100	5500	5.60	4.76	8.21	10.54	Pass
116	5580	5.87	4.88	8.41	10.54	Pass
140	5700	5.16	4.49	7.85	10.54	Pass
144 (U-NII-2C)	5720	5.71	4.69	8.24	10.54	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.46 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	3.68	1.40	5.70	10.54	Pass
46	5230	5.24	1.88	6.89	10.54	Pass
54	5270	3.76	1.66	5.85	10.54	Pass
62	5310	3.54	2.04	5.86	10.54	Pass
102	5510	1.90	2.06	4.99	10.54	Pass
110	5550	2.55	1.93	5.26	10.54	Pass
134	5670	1.35	2.84	5.17	10.54	Pass
142 (U-NII-2C)	5710	2.61	2.14	5.39	10.54	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.46 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	0.49	-1.89	2.47	10.54	Pass
58	5290	0.20	-1.65	2.38	10.54	Pass
106	5530	-3.30	-2.84	-0.05	10.54	Pass
122	5610	-0.11	-0.96	2.50	10.54	Pass
138 (U-NII-2C)	5690	-1.25	-0.23	2.30	10.54	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.46 dBi > 6dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.
5. For U-NII-2C, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.46-6) = 10.54$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-11.73	-12.95	-9.29	-7.07	29.54	Pass
149	5745	-6.22	-6.05	-3.12	-0.90	29.54	Pass
157	5785	-6.57	-5.81	-3.16	-0.94	29.54	Pass
165	5825	-6.31	-6.29	-3.29	-1.07	29.54	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm/500kHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-13.03	-13.66	-10.32	-8.10	29.54	Pass
149	5745	-7.96	-7.29	-4.6	-2.38	29.54	Pass
157	5785	-7.54	-7.23	-4.37	-2.15	29.54	Pass
165	5825	-6.93	-6.21	-3.54	-1.32	29.54	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm/500kHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-17.13	-18.14	-14.6	-12.38	29.54	Pass
151	5755	-10.43	-9.71	-7.04	-4.82	29.54	Pass
159	5795	-10.26	-9.43	-6.81	-4.59	29.54	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm/500kHz.

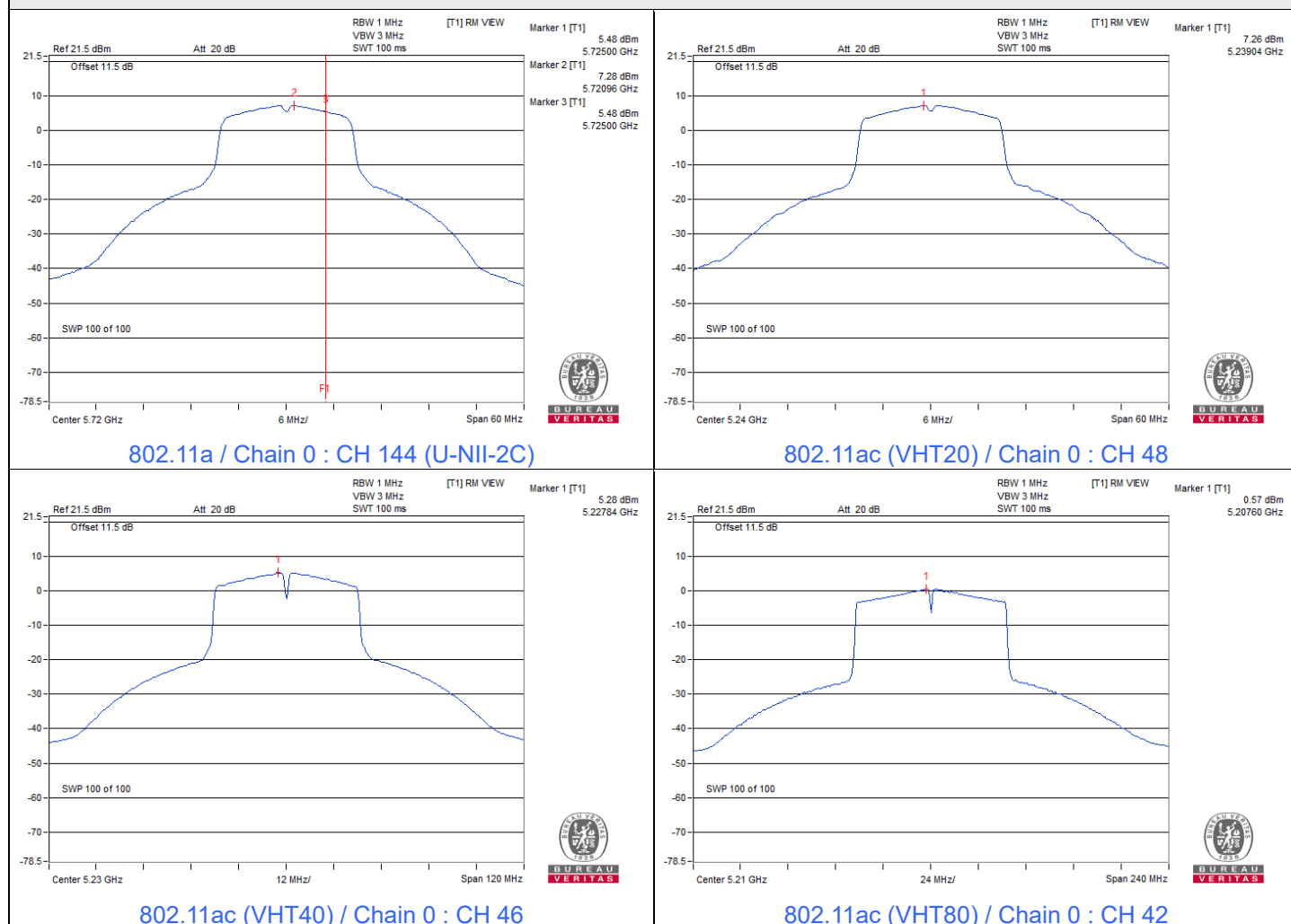
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-20.97	-19.50	-17.16	-14.94	29.54	Pass
155	5775	-15.71	-14.70	-12.17	-9.95	29.54	Pass

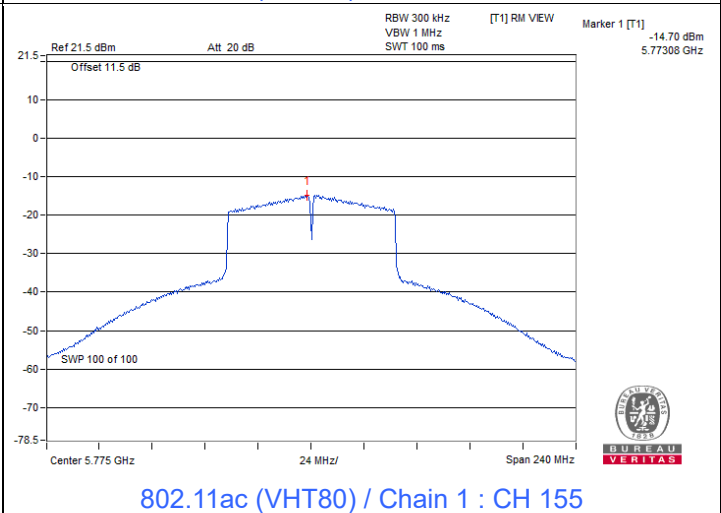
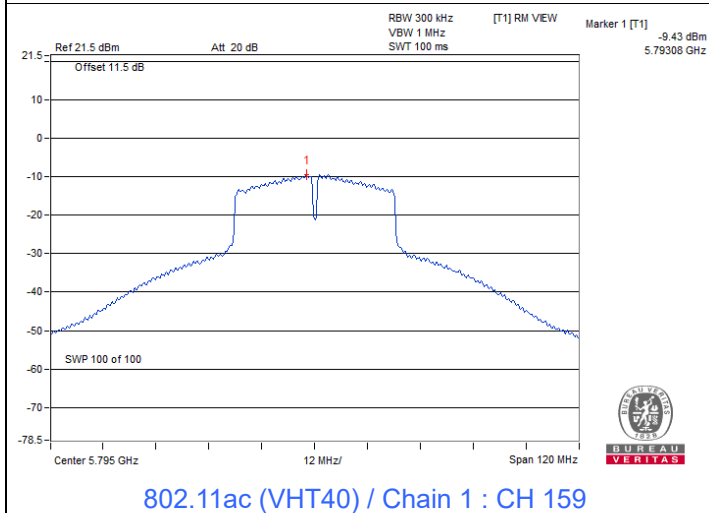
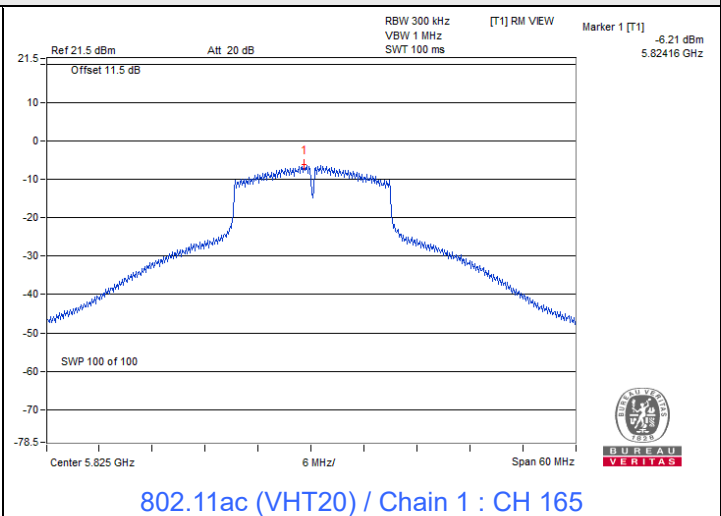
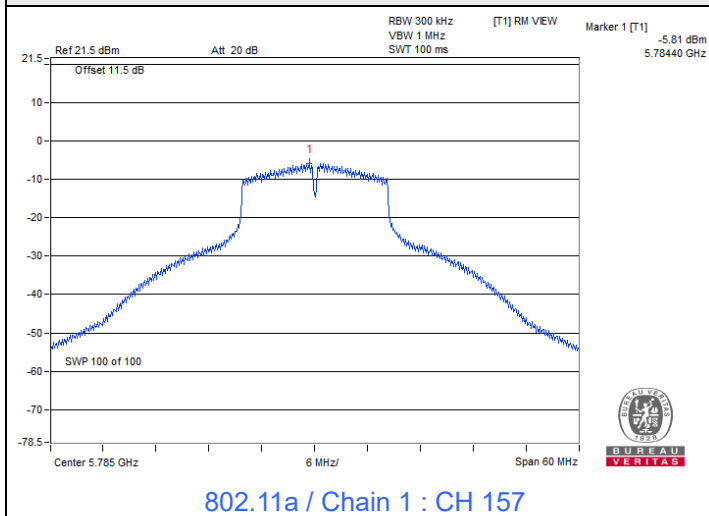
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 6.46 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.46 - 6) = 29.54$ dBm/500kHz.

Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.10	3.12	0.5	Pass
149	5745	16.38	16.08	0.5	Pass
157	5785	16.32	16.12	0.5	Pass
165	5825	16.29	16.28	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.81	3.75	0.5	Pass
149	5745	17.66	17.50	0.5	Pass
157	5785	17.54	17.39	0.5	Pass
165	5825	17.61	17.46	0.5	Pass

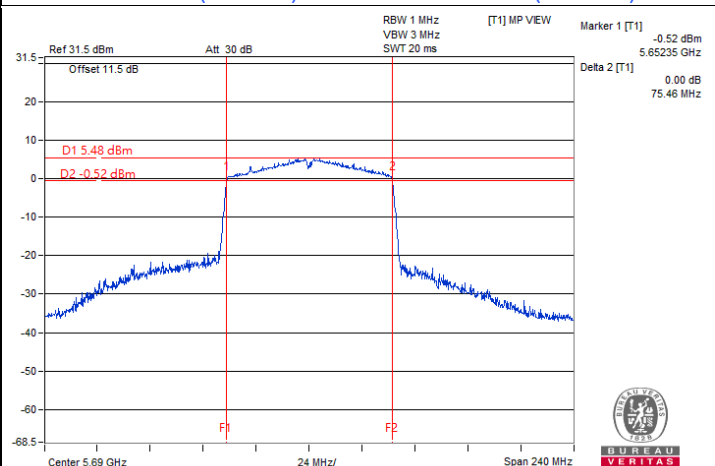
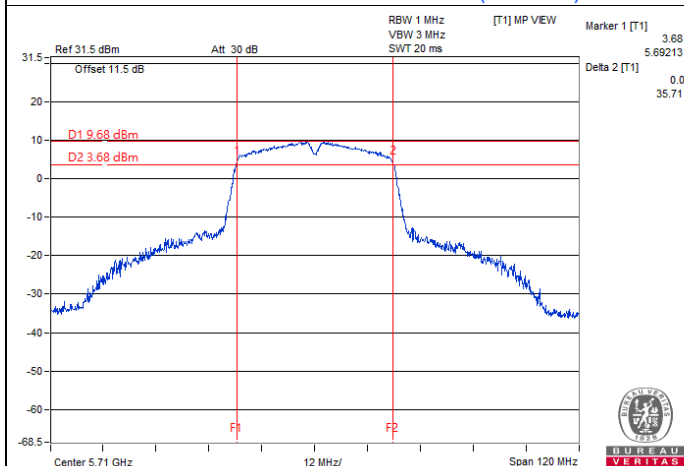
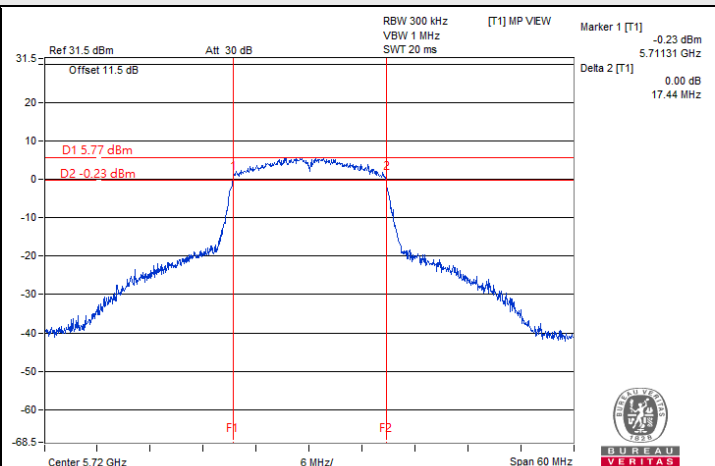
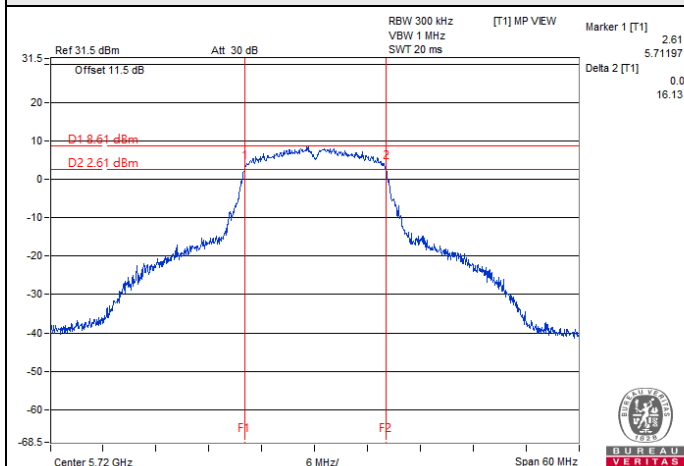
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.10	2.84	0.5	Pass
151	5755	36.18	35.79	0.5	Pass
159	5795	36.11	35.82	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	3.11	2.81	0.5	Pass
155	5775	76.52	75.77	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:	Ivan Tseng
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	16.92
40	5200	17.88	17.04
48	5240	17.16	16.92
52	5260	16.92	16.80
60	5300	17.04	16.92
64	5320	18.00	16.68
100	5500	18.24	18.36
116	5580	18.72	18.96
140	5700	19.32	19.08
144 (U-NII-2C)	5720	14.60	14.84
144 (U-NII-3)	5720	4.60	4.48
149	5745	25.32	25.32
157	5785	23.64	23.16
165	5825	28.20	25.68

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.00	17.88
40	5200	18.00	18.48
48	5240	19.56	17.76
52	5260	18.00	18.00
60	5300	18.00	17.76
64	5320	18.72	18.72
100	5500	21.84	18.96
116	5580	19.92	18.12
140	5700	18.72	18.84
144 (U-NII-2C)	5720	14.36	14.12
144 (U-NII-3)	5720	4.36	4.12
149	5745	22.32	23.28
157	5785	24.24	25.20
165	5825	27.12	27.84

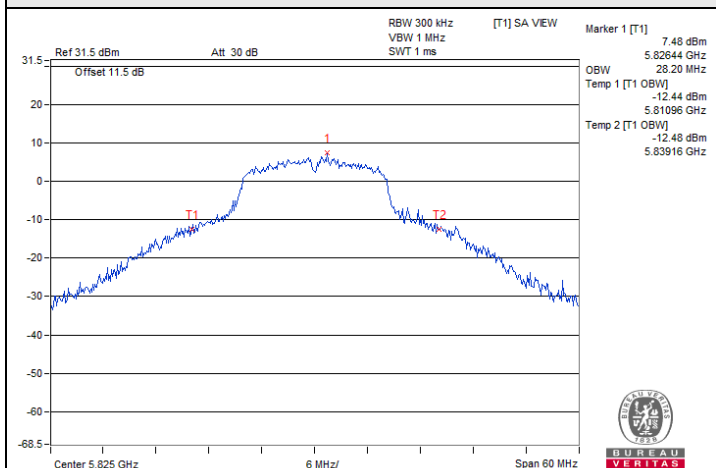
802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.20	36.72
46	5230	37.44	36.72
54	5270	36.96	36.72
62	5310	37.44	36.96
102	5510	37.20	36.72
110	5550	37.44	36.72
134	5670	36.72	37.44
142 (U-NII-2C)	5710	33.72	33.72
142 (U-NII-3)	5710	3.48	3.48
151	5755	51.60	43.92
159	5795	39.84	44.40

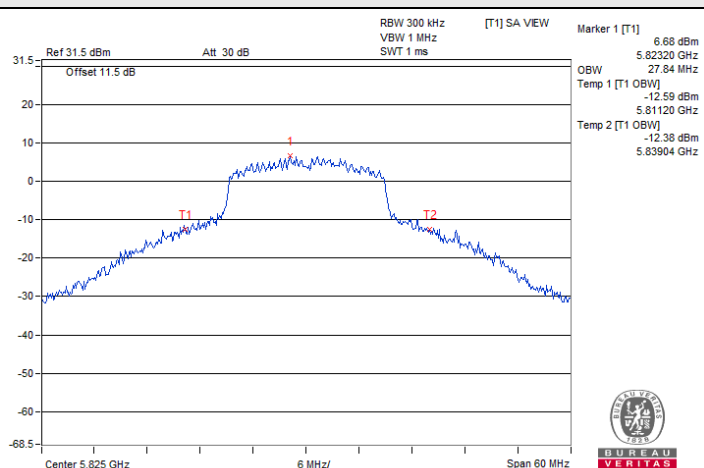
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.32	76.32
58	5290	76.32	76.32
106	5530	75.84	75.84
122	5610	76.32	76.32
138 (U-NII-2C)	5690	72.92	73.88
138 (U-NII-3)	5690	2.44	5.32
155	5775	76.32	77.76

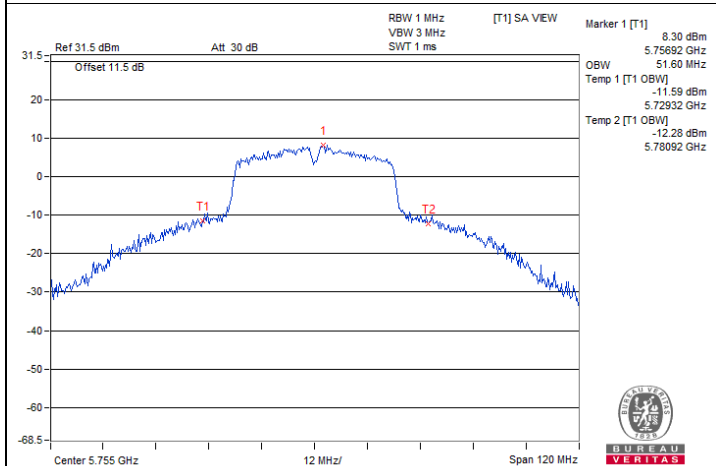
Spectrum Plot of Maximum Value



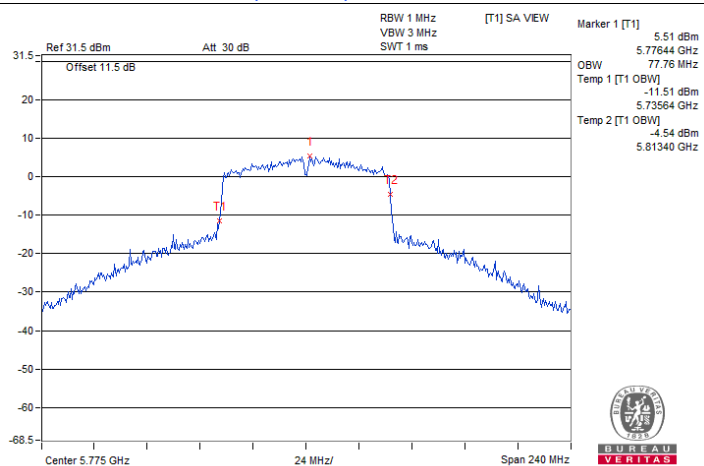
802.11a / Chain 0 : CH 165



802.11ac (VHT20) / Chain 1 : CH 165

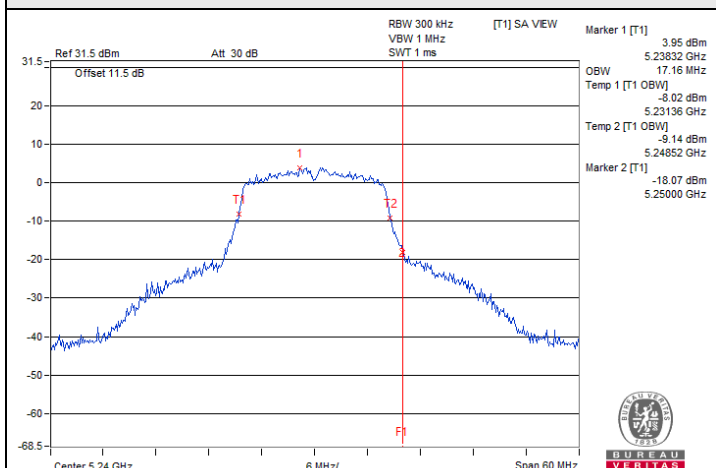


802.11ac (VHT40) / Chain 0 : CH 151

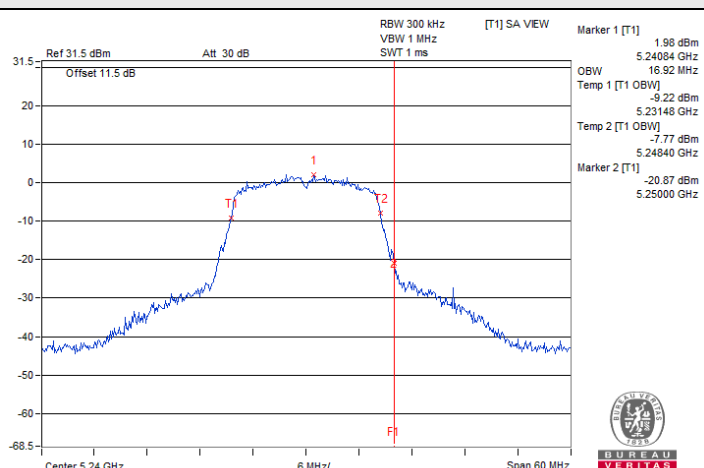


802.11ac (VHT80) / Chain 1 : CH 155

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

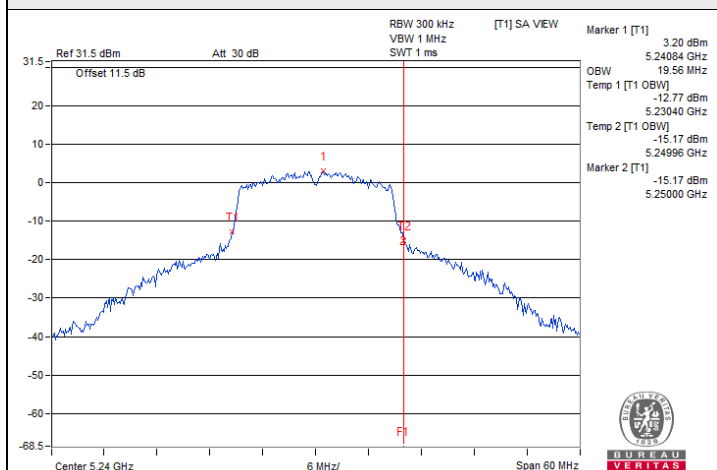


802.11a / Chain 0 : CH 48

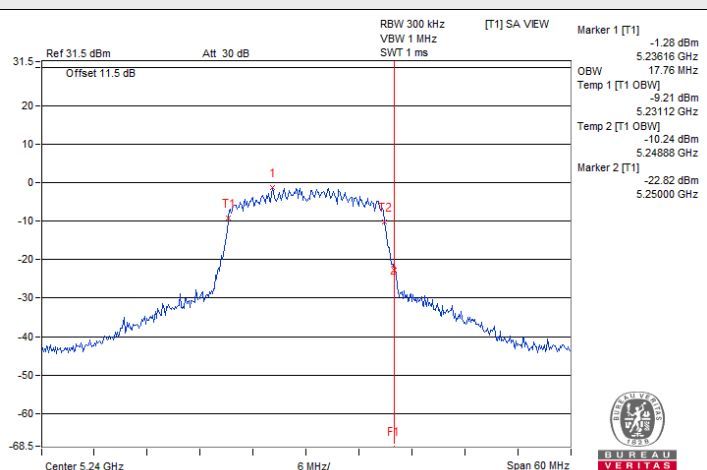


802.11a / Chain 1 : CH 48

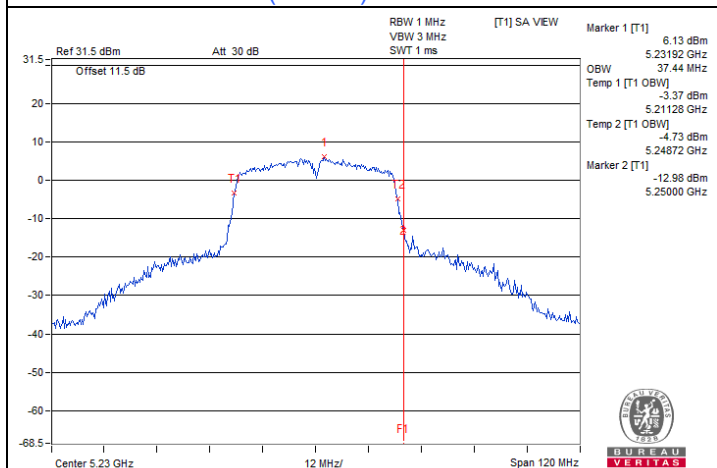
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



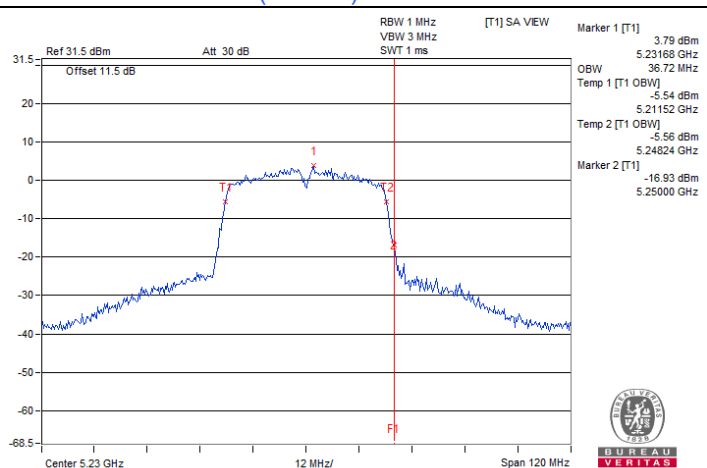
802.11ac (VHT20) / Chain 0 : CH 48



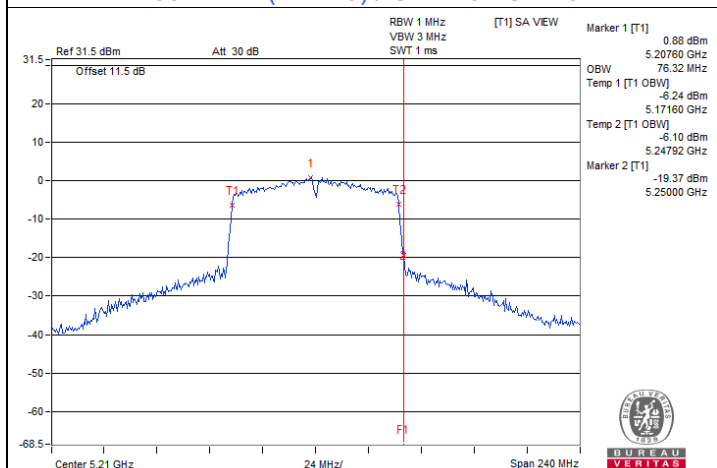
802.11ac (VHT20) / Chain 1 : CH 48



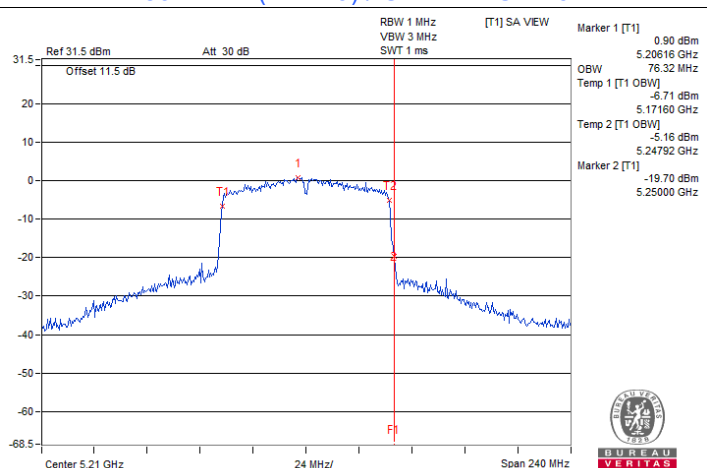
802.11ac (VHT40) / Chain 0 : CH 46



802.11ac (VHT40) / Chain 1 : CH 46

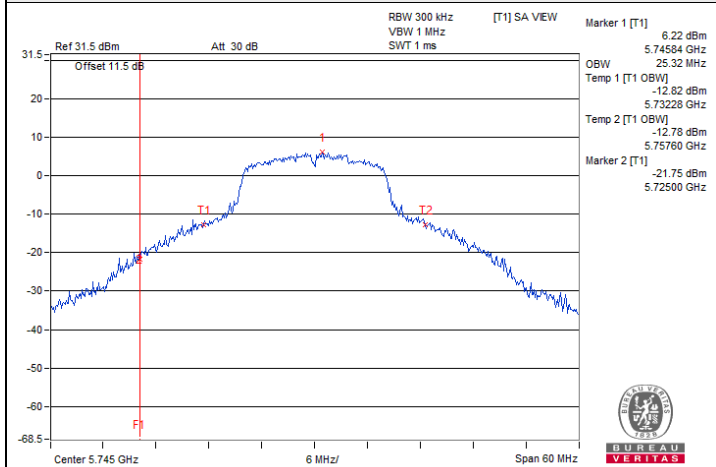


802.11ac (VHT80) / Chain 0 : CH 42

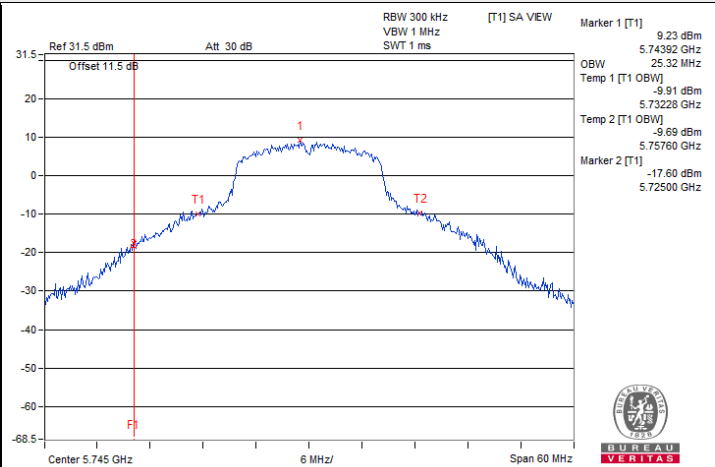


802.11ac (VHT80) / Chain 1 : CH 42

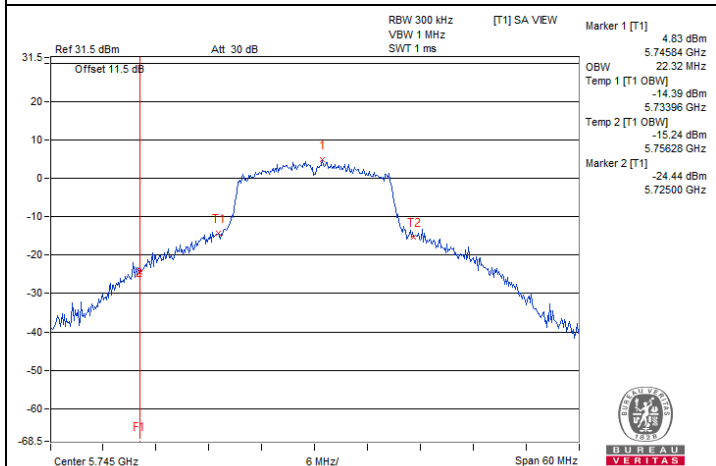
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



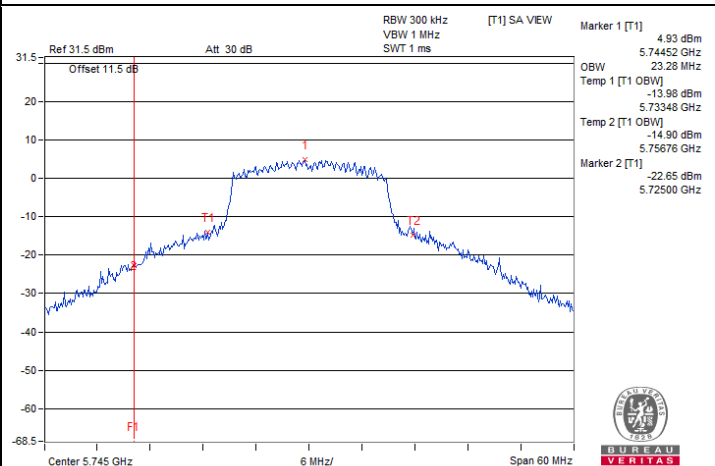
802.11a / Chain 0 : CH 149



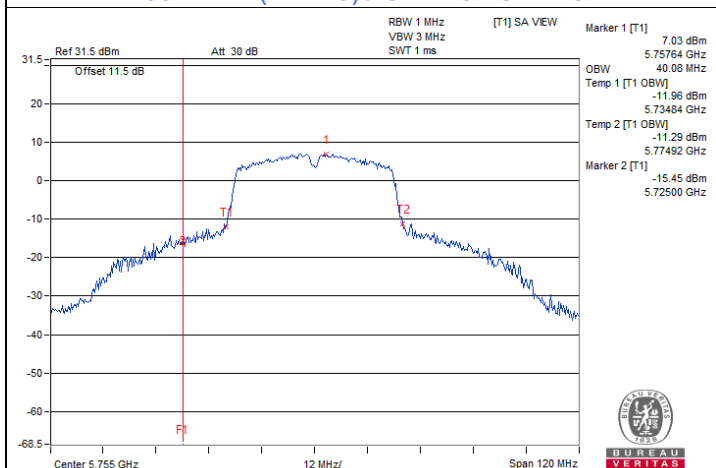
802.11a / Chain 1 : CH 149



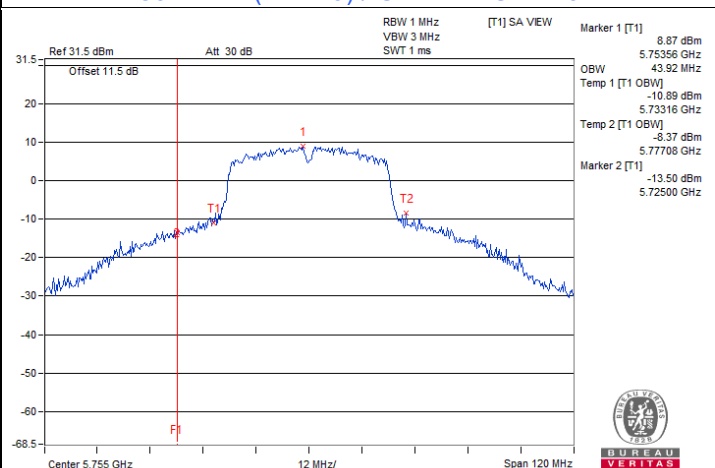
802.11ac (VHT20) / Chain 0 : CH 149



802.11ac (VHT20) / Chain 1 : CH 149

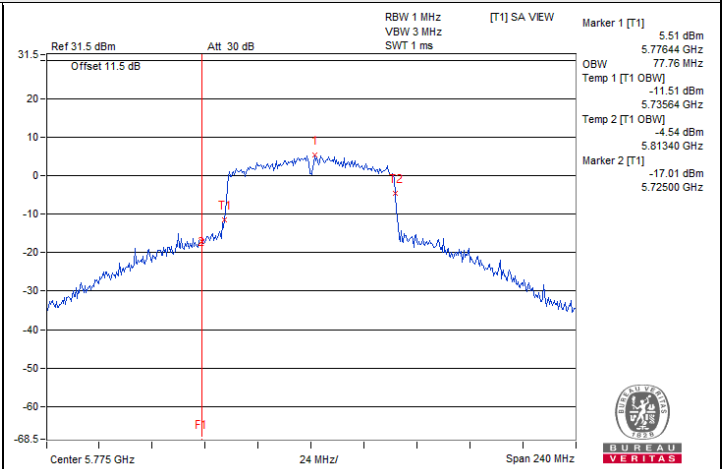
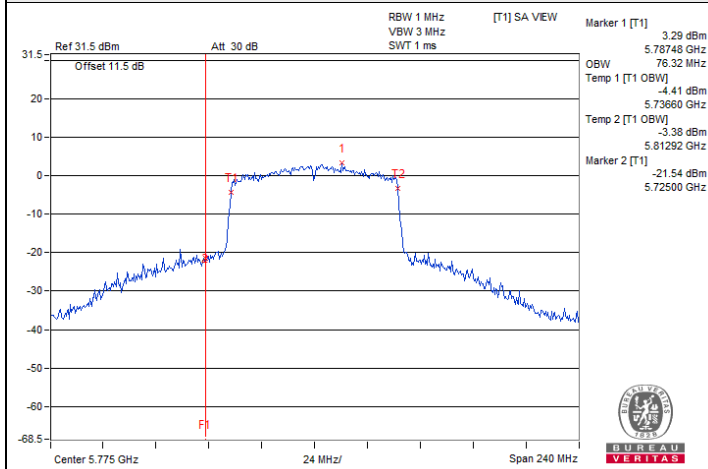


802.11ac (VHT40) / Chain 0 : CH 151



802.11ac (VHT40) / Chain 1 : CH 151

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



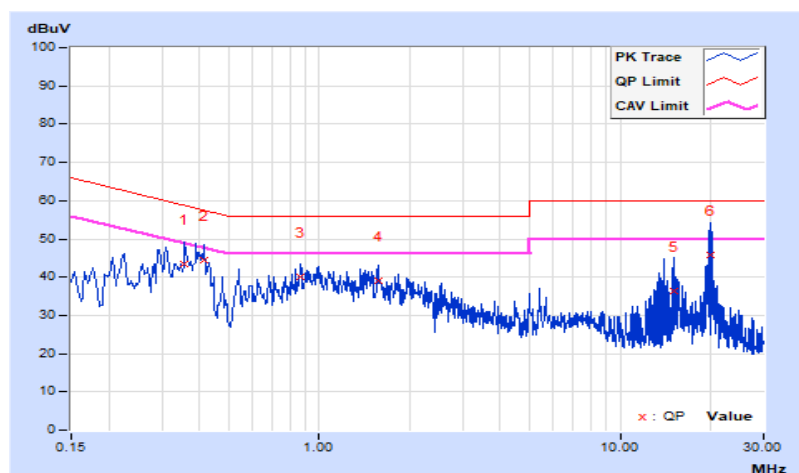
7.6 AC Power Conducted Emissions

RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 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	0.35800	9.72	33.86	23.13	43.58	32.85	58.77	48.77	-15.19	-15.92
2	0.41400	9.72	34.64	22.90	44.36	32.62	57.57	47.57	-13.21	-14.95
3	0.86600	9.77	30.25	17.73	40.02	27.50	56.00	46.00	-15.98	-18.50
4	1.57000	9.79	29.43	17.99	39.22	27.78	56.00	46.00	-16.78	-18.22
5	15.09800	10.02	26.51	11.43	36.53	21.45	60.00	50.00	-23.47	-28.55
6	19.96200	10.08	35.76	27.85	45.84	37.93	60.00	50.00	-14.16	-12.07

Remarks:

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

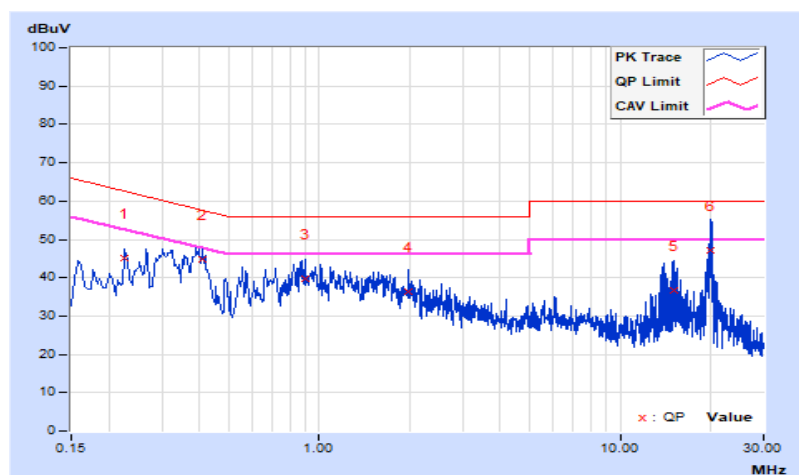


RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Greg Lin		

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	0.22600	9.67	35.29	23.22	44.96	32.89	62.60	52.60	-17.64	-19.71
2	0.41000	9.73	35.00	23.23	44.73	32.96	57.65	47.65	-12.92	-14.69
3	0.89800	9.80	29.94	18.57	39.74	28.37	56.00	46.00	-16.26	-17.63
4	1.99000	9.81	26.60	16.10	36.41	25.91	56.00	46.00	-19.59	-20.09
5	15.08178	10.14	26.68	12.92	36.82	23.06	60.00	50.00	-23.18	-26.94
6	19.97800	10.29	36.89	24.28	47.18	34.57	60.00	50.00	-12.82	-15.43

Remarks:

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



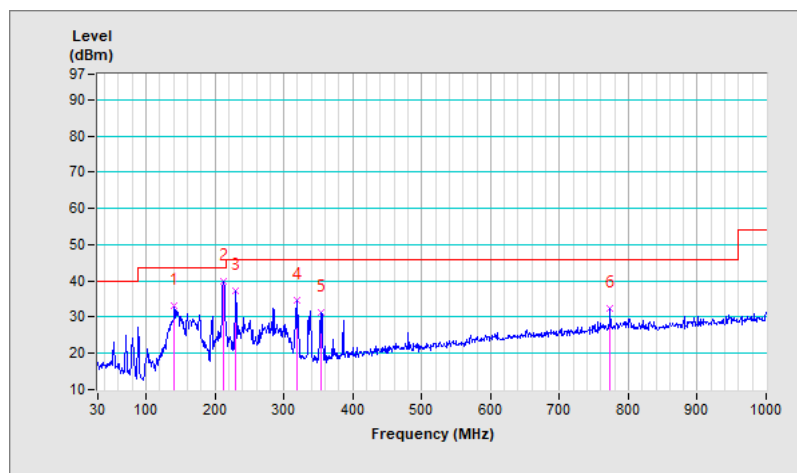
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 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	23 °C, 66% RH
Tested By	Greg Lin		

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	140.58	33.0 QP	43.5	-10.5	1.00 H	75	46.1	-13.1
2	212.36	39.8 QP	43.5	-3.7	1.25 H	174	55.9	-16.1
3	230.79	37.4 QP	46.0	-8.6	1.50 H	154	52.5	-15.1
4	320.03	34.7 QP	46.0	-11.3	1.00 H	163	46.2	-11.5
5	354.95	31.2 QP	46.0	-14.8	1.00 H	322	42.3	-11.1
6	773.99	32.3 QP	46.0	-13.7	1.00 H	173	32.9	-0.6

Remarks:

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

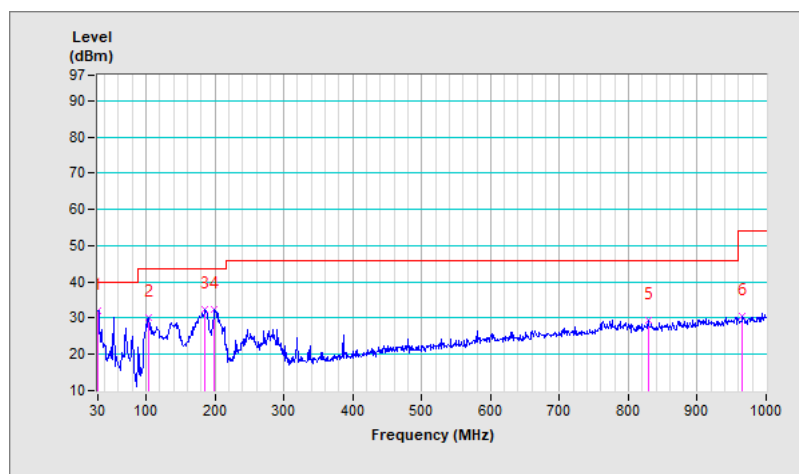


RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	30.00	32.1 QP	40.0	-7.9	1.25 V	162	46.2	-14.1
2	103.72	30.3 QP	43.5	-13.2	1.00 V	80	47.0	-16.7
3	185.20	32.3 QP	43.5	-11.2	1.25 V	219	47.5	-15.2
4	198.78	32.3 QP	43.5	-11.2	1.50 V	230	48.4	-16.1
5	829.28	29.3 QP	46.0	-16.7	1.00 V	320	31.1	-1.8
6	966.05	30.6 QP	54.0	-23.4	1.25 V	289	30.1	0.5

Remarks:

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



7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	57.4 PK	74.0	-16.6	1.01 H	99	53.2	4.2
2	5150.00	44.0 AV	54.0	-10.0	1.01 H	99	39.8	4.2
3	*5180.00	111.4 PK			1.01 H	99	69.5	41.9
4	*5180.00	101.0 AV			1.01 H	99	59.1	41.9
5	#10360.00	64.0 PK	68.2	-4.2	2.70 H	350	53.2	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	4.00 V	251	52.2	4.2
2	5150.00	43.5 AV	54.0	-10.5	4.00 V	251	39.3	4.2
3	*5180.00	110.7 PK			4.00 V	251	68.8	41.9
4	*5180.00	100.4 AV			4.00 V	251	58.5	41.9
5	#10360.00	67.8 PK	68.2	-0.4	2.44 V	7	57.0	10.8

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	111.4 PK			1.00 H	103	69.5	41.9
2	*5200.00	100.9 AV			1.00 H	103	59.0	41.9
3	#10400.00	66.8 PK	68.2	-1.4	2.70 H	349	56.0	10.8
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	*5200.00	111.2 PK			4.00 V	248	69.3	41.9
2	*5200.00	100.8 AV			4.00 V	248	58.9	41.9
3	#10400.00	68.0 PK	68.2	-0.2	2.44 V	9	57.2	10.8

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	108.9 PK			1.00 H	101	67.2	41.7
2	*5240.00	98.7 AV			1.00 H	101	57.0	41.7
3	5350.00	56.9 PK	74.0	-17.1	1.00 H	101	53.0	3.9
4	5350.00	43.8 AV	54.0	-10.2	1.00 H	101	39.9	3.9
5	#10480.00	64.2 PK	68.2	-4.0	2.41 H	349	53.1	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	108.7 PK			3.97 V	258	67.0	41.7
2	*5240.00	98.5 AV			3.97 V	258	56.8	41.7
3	5350.00	56.7 PK	74.0	-17.3	3.97 V	258	52.8	3.9
4	5350.00	43.6 AV	54.0	-10.4	3.97 V	258	39.7	3.9
5	#10480.00	68.0 PK	68.2	-0.2	2.41 V	8	56.9	11.1

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	71.2 PK	74.0	-2.8	1.00 H	113	67.0	4.2
2	5150.00	44.1 AV	54.0	-9.9	1.00 H	113	39.9	4.2
3	*5180.00	109.7 PK			1.00 H	113	67.8	41.9
4	*5180.00	100.1 AV			1.00 H	113	58.2	41.9
5	#10360.00	64.6 PK	68.2	-3.6	2.36 H	348	53.8	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.5 PK	74.0	-17.5	4.00 V	253	52.3	4.2
2	5150.00	43.5 AV	54.0	-10.5	4.00 V	253	39.3	4.2
3	*5180.00	108.7 PK			4.00 V	253	66.8	41.9
4	*5180.00	98.7 AV			4.00 V	253	56.8	41.9
5	#10360.00	67.0 PK	68.2	-1.2	2.49 V	5	56.2	10.8

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	111.3 PK			1.00 H	100	69.4	41.9
2	*5200.00	100.6 AV			1.00 H	100	58.7	41.9
3	#10400.00	65.5 PK	68.2	-2.7	3.21 H	350	54.7	10.8
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	*5200.00	111.1 PK			4.00 V	258	69.2	41.9
2	*5200.00	100.5 AV			4.00 V	258	58.6	41.9
3	#10400.00	68.0 PK	68.2	-0.2	2.32 V	5	57.2	10.8

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 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	108.3 PK			1.00 H	99	66.6	41.7
2	*5240.00	99.0 AV			1.00 H	99	57.3	41.7
3	5350.00	56.7 PK	74.0	-17.3	1.00 H	99	52.8	3.9
4	5350.00	43.6 AV	54.0	-10.4	1.00 H	99	39.7	3.9
5	#10480.00	65.1 PK	68.2	-3.1	2.65 H	350	54.0	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	108.2 PK			3.98 V	235	66.5	41.7
2	*5240.00	98.2 AV			3.98 V	235	56.5	41.7
3	5350.00	56.5 PK	74.0	-17.5	3.98 V	235	52.6	3.9
4	5350.00	43.4 AV	54.0	-10.6	3.98 V	235	39.5	3.9
5	#10480.00	68.0 PK	68.2	-0.2	2.36 V	8	56.9	11.1

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	1.00 H	111	63.3	4.2
2	5150.00	52.2 AV	54.0	-1.8	1.00 H	111	48.0	4.2
3	*5190.00	108.8 PK			1.00 H	111	67.0	41.8
4	*5190.00	97.7 AV			1.00 H	111	55.9	41.8
5	#10380.00	62.4 PK	68.2	-5.8	2.37 H	350	51.6	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	3.98 V	245	60.5	4.2
2	5150.00	48.2 AV	54.0	-5.8	3.98 V	245	44.0	4.2
3	*5190.00	108.7 PK			2.98 V	245	66.9	41.8
4	*5190.00	97.4 AV			2.98 V	245	55.6	41.8
5	#10380.00	64.4 PK	68.2	-3.8	2.38 V	5	53.6	10.8

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 (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	109.4 PK			1.00 H	113	67.6	41.8
2	*5230.00	98.6 AV			1.00 H	113	56.8	41.8
3	5350.00	57.3 PK	74.0	-16.7	1.00 H	113	53.4	3.9
4	5350.00	43.4 AV	54.0	-10.6	1.00 H	113	39.5	3.9
5	#10460.00	63.9 PK	68.2	-4.3	2.70 H	350	52.8	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	109.2 PK			4.00 V	243	67.4	41.8
2	*5230.00	98.3 AV			4.00 V	243	56.5	41.8
3	5350.00	57.2 PK	74.0	-16.8	4.00 V	243	53.3	3.9
4	5350.00	43.3 AV	54.0	-10.7	4.00 V	243	39.4	3.9
5	#10460.00	67.4 PK	68.2	-0.8	2.39 V	6	56.3	11.1

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	70.7 PK	74.0	-3.3	1.00 H	101	66.5	4.2
2	5150.00	53.3 AV	54.0	-0.7	1.00 H	101	49.1	4.2
3	*5210.00	106.0 PK			1.00 H	101	64.1	41.9
4	*5210.00	95.9 AV			1.00 H	101	54.0	41.9
5	#10420.00	61.8 PK	68.2	-6.4	2.47 H	350	50.9	10.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.4 PK	74.0	-4.6	4.00 V	240	65.2	4.2
2	5150.00	53.0 AV	54.0	-1.0	4.00 V	240	48.8	4.2
3	*5210.00	105.5 PK			4.00 V	240	63.6	41.9
4	*5210.00	95.3 AV			4.00 V	240	53.4	41.9
5	#10420.00	63.8 PK	68.2	-4.4	2.44 V	5	52.9	10.9

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.00 H	100	51.5	4.2
2	5150.00	42.1 AV	54.0	-11.9	1.00 H	100	37.9	4.2
3	*5260.00	109.0 PK			1.00 H	100	67.4	41.6
4	*5260.00	99.2 AV			1.00 H	100	57.6	41.6
5	#10520.00	64.9 PK	68.2	-3.3	2.51 H	348	53.7	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.9 PK	74.0	-19.1	3.72 V	253	50.7	4.2
2	5150.00	41.6 AV	54.0	-12.4	3.72 V	253	37.4	4.2
3	*5260.00	108.2 PK			3.72 V	253	66.6	41.6
4	*5260.00	98.4 AV			3.72 V	253	56.8	41.6
5	#10520.00	67.9 PK	68.2	-0.3	2.65 V	6	56.7	11.2

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	109.0 PK			1.03 H	112	67.5	41.5
2	*5300.00	99.2 AV			1.03 H	112	57.7	41.5
3	10600.00	63.7 PK	74.0	-10.3	2.26 H	349	52.3	11.4
4	10600.00	49.8 AV	54.0	-4.2	2.26 H	349	38.4	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.0 PK			3.78 V	256	66.5	41.5
2	*5300.00	98.3 AV			3.78 V	256	56.8	41.5
3	10600.00	67.0 PK	74.0	-7.0	2.67 V	9	55.6	11.4
4	10600.00	53.7 AV	54.0	-0.3	2.67 V	9	42.3	11.4

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.1 PK			1.00 H	297	70.6	41.5
2	*5320.00	102.1 AV			1.00 H	297	60.6	41.5
3	5350.00	58.2 PK	74.0	-15.8	1.00 H	297	54.3	3.9
4	5350.00	45.7 AV	54.0	-8.3	1.00 H	297	41.8	3.9
5	10640.00	64.6 PK	74.0	-9.4	2.24 H	351	53.4	11.2
6	10640.00	50.8 AV	54.0	-3.2	2.24 H	351	39.6	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.3 PK			4.00 V	251	69.8	41.5
2	*5320.00	101.5 AV			4.00 V	251	60.0	41.5
3	5350.00	57.5 PK	74.0	-16.5	4.00 V	251	53.6	3.9
4	5350.00	45.4 AV	54.0	-8.6	4.00 V	251	41.5	3.9
5	10640.00	67.5 PK	74.0	-6.5	2.65 V	12	56.3	11.2
6	10640.00	53.7 AV	54.0	-0.3	2.65 V	12	42.5	11.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.01 H	297	51.2	4.2
2	5150.00	42.5 AV	54.0	-11.5	1.01 H	297	38.3	4.2
3	*5260.00	110.5 PK			1.01 H	297	68.9	41.6
4	*5260.00	100.4 AV			1.01 H	297	58.8	41.6
5	#10520.00	64.9 PK	68.2	-3.3	2.24 H	347	53.7	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.0 PK	74.0	-19.0	3.98 V	253	50.8	4.2
2	5150.00	42.1 AV	54.0	-11.9	3.98 V	253	37.9	4.2
3	*5260.00	109.7 PK			3.98 V	253	68.1	41.6
4	*5260.00	99.5 AV			3.98 V	253	57.9	41.6
5	#10520.00	68.0 PK	68.2	-0.2	2.44 V	7	56.8	11.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	109.3 PK			1.00 H	302	67.8	41.5
2	*5300.00	99.1 AV			1.00 H	302	57.6	41.5
3	10600.00	63.7 PK	74.0	-10.3	2.73 H	9	52.3	11.4
4	10600.00	51.0 AV	54.0	-3.0	2.73 H	9	39.6	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.4 PK			4.00 V	256	66.9	41.5
2	*5300.00	98.2 AV			4.00 V	256	56.7	41.5
3	10600.00	67.0 PK	74.0	-7.0	2.43 V	8	55.6	11.4
4	10600.00	53.7 AV	54.0	-0.3	2.43 V	8	42.3	11.4

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.4 PK			1.00 H	298	70.9	41.5
2	*5320.00	102.0 AV			1.00 H	298	60.5	41.5
3	5350.00	65.8 PK	74.0	-8.2	1.00 H	298	61.9	3.9
4	5350.00	46.6 AV	54.0	-7.4	1.00 H	298	42.7	3.9
5	10640.00	63.7 PK	74.0	-10.3	2.28 H	346	52.5	11.2
6	10640.00	50.7 AV	54.0	-3.3	2.28 H	346	39.5	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.4 PK			3.97 V	254	69.9	41.5
2	*5320.00	101.2 AV			3.97 V	254	59.7	41.5
3	5350.00	65.3 PK	74.0	-8.7	3.97 V	254	61.4	3.9
4	5350.00	45.6 AV	54.0	-8.4	3.97 V	254	41.7	3.9
5	10640.00	66.9 PK	74.0	-7.1	2.69 V	11	55.7	11.2
6	10640.00	53.5 AV	54.0	-0.5	2.69 V	11	42.3	11.2

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.0 PK	74.0	-18.0	1.00 H	297	51.8	4.2
2	5150.00	42.5 AV	54.0	-11.5	1.00 H	297	38.3	4.2
3	*5270.00	110.2 PK			1.00 H	297	68.6	41.6
4	*5270.00	99.9 AV			1.00 H	297	58.3	41.6
5	#10540.00	65.1 PK	68.2	-3.1	2.27 H	349	53.8	11.3
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	5150.00	55.5 PK	74.0	-18.5	3.99 V	251	51.3	4.2
2	5150.00	42.0 AV	54.0	-12.0	3.99 V	251	37.8	4.2
3	*5270.00	109.4 PK			3.99 V	251	67.8	41.6
4	*5270.00	99.1 AV			3.99 V	251	57.5	41.6
5	#10540.00	67.9 PK	68.2	-0.3	2.19 V	8	56.6	11.3

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.3 PK			1.00 H	298	68.8	41.5
2	*5310.00	99.9 AV			1.00 H	298	58.4	41.5
3	5350.00	73.5 PK	74.0	-0.5	1.00 H	298	69.6	3.9
4	5350.00	53.7 AV	54.0	-0.3	1.00 H	298	49.8	3.9
5	10620.00	63.7 PK	74.0	-10.3	2.25 H	349	52.5	11.2
6	10620.00	50.0 AV	54.0	-4.0	2.25 H	349	38.8	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	109.4 PK			3.96 V	254	67.9	41.5
2	*5310.00	99.1 AV			3.96 V	254	57.6	41.5
3	5350.00	73.2 PK	74.0	-0.8	3.96 V	254	69.3	3.9
4	5350.00	53.3 AV	54.0	-0.7	3.96 V	254	49.4	3.9
5	10620.00	66.7 PK	74.0	-7.3	2.47 V	6	55.5	11.2
6	10620.00	53.1 AV	54.0	-0.9	2.47 V	6	41.9	11.2

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	106.2 PK			1.00 H	299	64.7	41.5
2	*5290.00	95.9 AV			1.00 H	299	54.4	41.5
3	5350.00	69.1 PK	74.0	-4.9	1.00 H	299	65.2	3.9
4	5350.00	53.5 AV	54.0	-0.5	1.00 H	299	49.6	3.9
5	#10580.00	62.0 PK	68.2	-6.2	2.23 H	351	50.7	11.3
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	*5290.00	105.4 PK			3.89 V	250	63.9	41.5
2	*5290.00	95.1 AV			3.89 V	250	53.6	41.5
3	5350.00	67.5 PK	74.0	-6.5	3.89 V	250	63.6	3.9
4	5350.00	52.2 AV	54.0	-1.8	3.89 V	250	48.3	3.9
5	#10580.00	65.2 PK	68.2	-3.0	2.73 V	7	53.9	11.3

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 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	62.2 PK	74.0	-11.8	1.00 H	300	58.1	4.1
2	5460.00	45.6 AV	54.0	-8.4	1.00 H	300	41.5	4.1
3	#5470.00	64.8 PK	68.2	-3.4	1.00 H	300	60.7	4.1
4	*5500.00	115.2 PK			1.00 H	300	73.3	41.9
5	*5500.00	105.2 AV			1.00 H	300	63.3	41.9
6	11000.00	61.8 PK	74.0	-12.2	1.00 H	60	50.5	11.3
7	11000.00	48.5 AV	54.0	-5.5	1.00 H	60	37.2	11.3
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	5460.00	60.0 PK	74.0	-14.0	3.88 V	252	55.9	4.1
2	5460.00	45.4 AV	54.0	-8.6	3.88 V	252	41.3	4.1
3	#5470.00	63.7 PK	68.2	-4.5	3.88 V	252	59.6	4.1
4	*5500.00	114.4 PK			3.88 V	252	72.5	41.9
5	*5500.00	104.6 AV			3.88 V	252	62.7	41.9
6	11000.00	63.2 PK	74.0	-10.8	2.56 V	18	51.9	11.3
7	11000.00	50.9 AV	54.0	-3.1	2.56 V	18	39.6	11.3

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	59.2 PK	74.0	-14.8	1.00 H	120	55.1	4.1
2	5460.00	44.4 AV	54.0	-9.6	1.00 H	120	40.3	4.1
3	#5470.00	56.0 PK	68.2	-12.2	1.00 H	120	51.9	4.1
4	*5580.00	114.7 PK			1.00 H	120	72.5	42.2
5	*5580.00	104.5 AV			1.00 H	120	62.3	42.2
6	11160.00	65.0 PK	74.0	-9.0	2.79 H	19	53.2	11.8
7	11160.00	51.6 AV	54.0	-2.4	2.79 H	19	39.8	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.0 PK	74.0	-15.0	3.76 V	247	54.9	4.1
2	5460.00	44.1 AV	54.0	-9.9	3.76 V	247	40.0	4.1
3	#5470.00	55.8 PK	68.2	-12.4	3.76 V	247	51.7	4.1
4	*5580.00	114.4 PK			3.76 V	247	72.2	42.2
5	*5580.00	104.2 AV			3.76 V	247	62.0	42.2
6	11160.00	66.1 PK	74.0	-7.9	2.20 V	23	54.3	11.8
7	11160.00	53.1 AV	54.0	-0.9	2.20 V	23	41.3	11.8

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	113.8 PK			1.00 H	118	70.8	43.0
2	*5700.00	103.5 AV			1.00 H	118	60.5	43.0
3	#5725.00	68.1 PK	68.2	-0.1	1.00 H	118	62.5	5.6
4	11400.00	62.6 PK	74.0	-11.4	2.71 H	13	50.1	12.5
5	11400.00	47.7 AV	54.0	-6.3	2.71 H	13	35.2	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	113.2 PK			4.00 V	239	70.2	43.0
2	*5700.00	103.3 AV			4.00 V	239	60.3	43.0
3	#5725.00	67.7 PK	68.2	-0.5	4.00 V	239	62.1	5.6
4	11400.00	64.0 PK	74.0	-10.0	2.84 V	24	51.5	12.5
5	11400.00	50.3 AV	54.0	-3.7	2.84 V	24	37.8	12.5

Remarks:

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

RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	56.9 PK	68.2	-11.3	1.00 H	295	52.8	4.1
2	*5720.00	111.4 PK			1.00 H	295	68.2	43.2
3	*5720.00	100.5 AV			1.00 H	295	57.3	43.2
4	#5850.00	58.6 PK	68.2	-9.6	1.00 H	295	52.8	5.8
5	11440.00	62.2 PK	74.0	-11.8	2.70 H	16	49.8	12.4
6	11440.00	49.0 AV	54.0	-5.0	2.70 H	16	36.6	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.6 PK	68.2	-11.6	3.00 V	258	52.5	4.1
2	*5720.00	110.2 PK			3.00 V	258	67.0	43.2
3	*5720.00	100.0 AV			3.00 V	258	56.8	43.2
4	#5850.00	56.2 PK	68.2	-12.0	3.00 V	258	50.4	5.8
5	11440.00	64.2 PK	74.0	-9.8	2.98 V	23	51.8	12.4
6	11440.00	51.6 AV	54.0	-2.4	2.98 V	23	39.2	12.4

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	63.3 PK	74.0	-10.7	1.00 H	70	59.2	4.1
2	5460.00	46.1 AV	54.0	-7.9	1.00 H	70	42.0	4.1
3	#5470.00	65.9 PK	68.2	-2.3	1.00 H	70	61.8	4.1
4	*5500.00	114.0 PK			1.00 H	70	72.1	41.9
5	*5500.00	104.0 AV			1.00 H	70	62.1	41.9
6	11000.00	61.1 PK	74.0	-12.9	2.76 H	18	49.8	11.3
7	11000.00	46.9 AV	54.0	-7.1	2.76 H	18	35.6	11.3
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	5460.00	62.3 PK	74.0	-11.7	3.89 V	251	58.2	4.1
2	5460.00	46.0 AV	54.0	-8.0	3.89 V	251	41.9	4.1
3	#5470.00	65.3 PK	68.2	-2.9	3.89 V	251	61.2	4.1
4	*5500.00	113.7 PK			3.89 V	251	71.8	41.9
5	*5500.00	103.8 AV			3.89 V	251	61.9	41.9
6	11000.00	62.6 PK	74.0	-11.4	2.59 V	22	51.3	11.3
7	11000.00	49.0 AV	54.0	-5.0	2.59 V	22	37.7	11.3

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	113.4 PK			1.01 H	120	71.2	42.2
2	*5580.00	103.4 AV			1.01 H	120	61.2	42.2
3	11160.00	63.0 PK	74.0	-11.0	2.79 H	10	51.2	11.8
4	11160.00	50.4 AV	54.0	-3.6	2.79 H	10	38.6	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.0 PK			3.79 V	255	70.8	42.2
2	*5580.00	102.9 AV			3.79 V	255	60.7	42.2
3	11160.00	65.6 PK	74.0	-8.4	2.20 V	24	53.8	11.8
4	11160.00	51.8 AV	54.0	-2.2	2.20 V	24	40.0	11.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	110.5 PK			1.00 H	119	67.5	43.0
2	*5700.00	100.1 AV			1.00 H	119	57.1	43.0
3	#5725.00	67.6 PK	68.2	-0.6	1.00 H	119	62.0	5.6
4	11400.00	59.2 PK	74.0	-14.8	2.73 H	21	46.7	12.5
5	11400.00	46.3 AV	54.0	-7.7	2.73 H	21	33.8	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.8 PK			4.00 V	238	66.8	43.0
2	*5700.00	99.7 AV			4.00 V	238	56.7	43.0
3	#5725.00	67.5 PK	68.2	-0.7	4.00 V	238	61.9	5.6
4	11400.00	61.9 PK	74.0	-12.1	2.84 V	23	49.4	12.5
5	11400.00	48.3 AV	54.0	-5.7	2.84 V	23	35.8	12.5

Remarks:

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

RF Mode	802.11ac (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=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	55.1 PK	68.2	-13.1	1.00 H	118	51.0	4.1
2	*5720.00	111.2 PK			1.00 H	118	68.0	43.2
3	*5720.00	101.4 AV			1.00 H	118	58.2	43.2
4	#5850.00	58.0 PK	68.2	-10.2	1.00 H	118	52.2	5.8
5	11440.00	61.4 PK	74.0	-12.6	2.70 H	15	49.0	12.4
6	11440.00	48.7 AV	54.0	-5.3	2.70 H	15	36.3	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	54.9 PK	68.2	-13.3	4.00 V	256	50.8	4.1
2	*5720.00	110.9 PK			3.00 V	256	67.7	43.2
3	*5720.00	100.8 AV			3.00 V	256	57.6	43.2
4	#5850.00	57.9 PK	68.2	-10.3	3.00 V	256	52.1	5.8
5	11440.00	62.5 PK	74.0	-11.5	2.96 V	23	50.1	12.4
6	11440.00	49.6 AV	54.0	-4.4	2.96 V	23	37.2	12.4

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	62.0 PK	74.0	-12.0	1.00 H	298	57.9	4.1
2	5460.00	45.1 AV	54.0	-8.9	1.00 H	298	41.0	4.1
3	#5470.00	66.8 PK	68.2	-1.4	1.00 H	298	62.7	4.1
4	*5510.00	109.2 PK			1.00 H	298	67.2	42.0
5	*5510.00	99.0 AV			1.00 H	298	57.0	42.0
6	11020.00	57.4 PK	74.0	-16.6	2.74 H	20	46.0	11.4
7	11020.00	45.7 AV	54.0	-8.3	2.74 H	20	34.3	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	3.89 V	244	57.6	4.1
2	5460.00	44.9 AV	54.0	-9.1	3.89 V	244	40.8	4.1
3	#5470.00	66.6 PK	68.2	-1.6	3.89 V	244	62.5	4.1
4	*5510.00	109.0 PK			3.89 V	244	67.0	42.0
5	*5510.00	98.9 AV			3.89 V	244	56.9	42.0
6	11020.00	59.1 PK	74.0	-14.9	3.00 V	22	47.7	11.4
7	11020.00	46.5 AV	54.0	-7.5	3.00 V	22	35.1	11.4

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.7 PK			1.00 H	300	69.6	42.1
2	*5550.00	101.9 AV			1.00 H	300	59.8	42.1
3	11100.00	61.6 PK	74.0	-12.4	2.70 H	20	50.0	11.6
4	11100.00	48.2 AV	54.0	-5.8	2.70 H	20	36.6	11.6
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	*5550.00	111.1 PK			3.84 V	252	69.0	42.1
2	*5550.00	101.4 AV			3.84 V	252	59.3	42.1
3	11100.00	62.9 PK	74.0	-11.1	2.19 V	22	51.3	11.6
4	11100.00	49.6 AV	54.0	-4.4	2.19 V	22	38.0	11.6

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	110.9 PK			1.00 H	297	68.0	42.9
2	*5670.00	100.0 AV			1.00 H	297	57.1	42.9
3	#5725.00	66.6 PK	68.2	-1.6	1.00 H	297	61.0	5.6
4	11340.00	61.4 PK	74.0	-12.6	2.70 H	12	49.1	12.3
5	11340.00	48.3 AV	54.0	-5.7	2.70 H	12	36.0	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	110.5 PK			3.84 V	255	67.6	42.9
2	*5670.00	99.7 AV			3.84 V	255	56.8	42.9
3	#5725.00	66.0 PK	68.2	-2.2	3.84 V	255	60.4	5.6
4	11340.00	62.5 PK	74.0	-11.5	2.41 V	24	50.2	12.3
5	11340.00	49.1 AV	54.0	-4.9	2.41 V	24	36.8	12.3

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	57.1 PK	68.2	-11.1	1.00 H	119	53.0	4.1
2	*5710.00	110.0 PK			1.00 H	119	66.9	43.1
3	*5710.00	99.0 AV			1.00 H	119	55.9	43.1
4	#5850.00	58.2 PK	68.2	-10.0	1.00 H	119	52.4	5.8
5	11420.00	59.7 PK	74.0	-14.3	2.73 H	13	47.2	12.5
6	11420.00	46.4 AV	54.0	-7.6	2.73 H	13	33.9	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.7 PK	68.2	-11.5	4.00 V	245	52.6	4.1
2	*5710.00	109.8 PK			4.00 V	245	66.7	43.1
3	*5710.00	98.8 AV			4.00 V	245	55.7	43.1
4	#5850.00	56.3 PK	68.2	-11.9	4.00 V	245	50.5	5.8
5	11420.00	62.1 PK	74.0	-11.9	3.00 V	25	49.6	12.5
6	11420.00	49.0 AV	54.0	-5.0	3.00 V	25	36.5	12.5

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	64.9 PK	74.0	-9.1	1.00 H	293	60.8	4.1
2	5460.00	51.6 AV	54.0	-2.4	1.00 H	293	47.5	4.1
3	#5470.00	67.6 PK	68.2	-0.6	1.00 H	293	63.5	4.1
4	*5530.00	105.0 PK			1.00 H	293	63.0	42.0
5	*5530.00	94.7 AV			1.00 H	293	52.7	42.0
6	11060.00	58.5 PK	74.0	-15.5	2.75 H	18	47.0	11.5
7	11060.00	45.4 AV	54.0	-8.6	2.75 H	18	33.9	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.7 PK	74.0	-9.3	3.84 V	250	60.6	4.1
2	5460.00	51.3 AV	54.0	-2.7	3.84 V	250	47.2	4.1
3	#5470.00	67.5 PK	68.2	-0.7	3.84 V	250	63.4	4.1
4	*5530.00	104.6 PK			3.84 V	250	62.6	42.0
5	*5530.00	94.5 AV			3.84 V	250	52.5	42.0
6	11060.00	59.4 PK	74.0	-14.6	3.00 V	13	47.9	11.5
7	11060.00	45.9 AV	54.0	-8.1	3.00 V	13	34.4	11.5

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	107.2 PK			1.00 H	299	64.8	42.4
2	*5610.00	96.5 AV			1.00 H	299	54.1	42.4
3	#5725.00	67.5 PK	68.2	-0.7	1.00 H	299	61.9	5.6
4	11220.00	58.8 PK	74.0	-15.2	2.73 H	13	46.8	12.0
5	11220.00	46.2 AV	54.0	-7.8	2.73 H	13	34.2	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	106.9 PK			3.97 V	246	64.5	42.4
2	*5610.00	96.3 AV			3.97 V	246	53.9	42.4
3	#5725.00	66.9 PK	68.2	-1.3	3.97 V	246	61.3	5.6
4	11220.00	61.2 PK	74.0	-12.8	2.43 V	25	49.2	12.0
5	11220.00	47.8 AV	54.0	-6.2	2.43 V	25	35.8	12.0

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Titan Hsu		

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	55.6 PK	68.2	-12.6	1.00 H	297	51.5	4.1
2	*5690.00	106.1 PK			1.00 H	297	63.1	43.0
3	*5690.00	96.4 AV			1.00 H	297	53.4	43.0
4	#5850.00	59.1 PK	68.2	-9.1	1.00 H	297	53.3	5.8
5	11380.00	59.2 PK	74.0	-14.8	2.70 H	5	46.7	12.5
6	11380.00	46.3 AV	54.0	-7.7	2.70 H	5	33.8	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.1 PK	68.2	-13.1	3.64 V	236	51.0	4.1
2	*5690.00	105.8 PK			3.64 V	236	62.8	43.0
3	*5690.00	95.9 AV			3.64 V	236	52.9	43.0
4	#5850.00	58.4 PK	68.2	-9.8	3.64 V	236	52.6	5.8
5	11380.00	61.1 PK	74.0	-12.9	3.00 V	20	48.6	12.5
6	11380.00	47.3 AV	54.0	-6.7	3.00 V	20	34.8	12.5

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	#5640.40	60.7 PK	68.2	-7.5	1.03 H	120	55.6	5.1
2	*5745.00	116.6 PK			1.03 H	120	73.3	43.3
3	*5745.00	105.8 AV			1.03 H	120	62.5	43.3
4	#5954.40	62.1 PK	68.2	-6.1	1.03 H	120	56.3	5.8
5	11490.00	64.5 PK	74.0	-9.5	2.38 H	32	52.3	12.2
6	11490.00	51.8 AV	54.0	-2.2	2.38 H	32	39.6	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	59.6 PK	68.2	-8.6	3.87 V	254	54.5	5.1
2	*5745.00	115.8 PK			3.87 V	254	72.5	43.3
3	*5745.00	105.1 AV			3.87 V	254	61.8	43.3
4	#5984.00	61.1 PK	68.2	-7.1	3.87 V	254	55.3	5.8
5	11490.00	66.6 PK	74.0	-7.4	2.70 V	18	54.4	12.2
6	11490.00	53.7 AV	54.0	-0.3	2.70 V	18	41.5	12.2

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.60	61.7 PK	68.2	-6.5	1.00 H	120	56.5	5.2
2	*5785.00	115.4 PK			1.00 H	120	72.0	43.4
3	*5785.00	105.0 AV			1.00 H	120	61.6	43.4
4	#5953.60	62.0 PK	68.2	-6.2	1.00 H	120	56.2	5.8
5	11570.00	64.4 PK	74.0	-9.6	2.39 H	33	52.6	11.8
6	11570.00	51.7 AV	54.0	-2.3	2.39 H	33	39.9	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.20	60.5 PK	68.2	-7.7	3.91 V	257	55.4	5.1
2	*5785.00	114.6 PK			3.91 V	257	71.2	43.4
3	*5785.00	104.3 AV			3.91 V	257	60.9	43.4
4	#5982.00	61.4 PK	68.2	-6.8	3.91 V	257	55.6	5.8
5	11570.00	66.9 PK	74.0	-7.1	2.69 V	17	55.1	11.8
6	11570.00	53.6 AV	54.0	-0.4	2.69 V	17	41.8	11.8

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.40	60.7 PK	68.2	-7.5	1.02 H	127	55.7	5.0
2	*5825.00	115.3 PK			1.02 H	121	71.9	43.4
3	*5825.00	104.7 AV			1.02 H	121	61.3	43.4
4	#5972.00	62.3 PK	68.2	-5.9	1.02 H	127	56.5	5.8
5	11650.00	64.3 PK	74.0	-9.7	2.43 H	31	52.6	11.7
6	11650.00	51.5 AV	54.0	-2.5	2.43 H	31	39.8	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.00	59.8 PK	68.2	-8.4	3.92 V	255	55.0	4.8
2	*5825.00	114.6 PK			3.92 V	255	71.2	43.4
3	*5825.00	104.0 AV			3.92 V	255	60.6	43.4
4	#5964.80	61.5 PK	68.2	-6.7	3.92 V	255	55.7	5.8
5	11650.00	66.8 PK	74.0	-7.2	2.67 V	20	55.1	11.7
6	11650.00	53.8 AV	54.0	-0.2	2.67 V	20	42.1	11.7

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	#5644.80	60.9 PK	68.2	-7.3	1.03 H	121	55.8	5.1
2	*5745.00	115.0 PK			1.03 H	121	71.7	43.3
3	*5745.00	104.8 AV			1.03 H	121	61.5	43.3
4	#5934.80	61.7 PK	68.2	-6.5	1.03 H	121	55.9	5.8
5	11490.00	64.3 PK	74.0	-9.7	2.39 H	37	52.1	12.2
6	11490.00	51.6 AV	54.0	-2.4	2.39 H	37	39.4	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	60.0 PK	68.2	-8.2	3.84 V	256	54.9	5.1
2	*5745.00	114.4 PK			3.84 V	256	71.1	43.3
3	*5745.00	104.1 AV			3.84 V	256	60.8	43.3
4	#5986.00	61.4 PK	68.2	-6.8	3.84 V	256	55.6	5.8
5	11490.00	66.1 PK	74.0	-7.9	3.01 V	24	53.9	12.2
6	11490.00	53.5 AV	54.0	-0.5	3.01 V	24	41.3	12.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.20	60.3 PK	68.2	-7.9	1.00 H	119	55.3	5.0
2	*5785.00	115.1 PK			1.00 H	119	71.7	43.4
3	*5785.00	104.8 AV			1.00 H	119	61.4	43.4
4	#5958.80	62.0 PK	68.2	-6.2	1.00 H	119	56.2	5.8
5	11570.00	64.3 PK	74.0	-9.7	2.37 H	33	52.5	11.8
6	11570.00	51.6 AV	54.0	-2.4	2.37 H	33	39.8	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.20	59.7 PK	68.2	-8.5	3.88 V	254	54.7	5.0
2	*5785.00	114.5 PK			3.88 V	254	71.1	43.4
3	*5785.00	104.2 AV			3.88 V	254	60.8	43.4
4	#5937.20	61.1 PK	68.2	-7.1	3.88 V	254	55.3	5.8
5	11570.00	66.6 PK	74.0	-7.4	2.92 V	19	54.8	11.8
6	11570.00	53.6 AV	54.0	-0.4	2.92 V	19	41.8	11.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.60	61.9 PK	68.2	-6.3	1.03 H	121	56.9	5.0
2	*5825.00	115.1 PK			1.03 H	121	71.7	43.4
3	*5825.00	104.9 AV			1.03 H	121	61.5	43.4
4	#5970.40	61.7 PK	68.2	-6.5	1.03 H	121	55.9	5.8
5	11650.00	64.2 PK	74.0	-9.8	2.37 H	34	52.5	11.7
6	11650.00	51.4 AV	54.0	-2.6	2.37 H	34	39.7	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.40	59.2 PK	68.2	-9.0	3.89 V	252	54.2	5.0
2	*5825.00	114.5 PK			3.89 V	252	71.1	43.4
3	*5825.00	104.2 AV			3.89 V	252	60.8	43.4
4	#5938.00	60.7 PK	68.2	-7.5	3.89 V	252	54.9	5.8
5	11650.00	66.8 PK	74.0	-7.2	2.92 V	19	55.1	11.7
6	11650.00	53.5 AV	54.0	-0.5	2.92 V	19	41.8	11.7

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	67.6 PK	68.2	-0.6	1.01 H	121	62.5	5.1
2	*5755.00	112.4 PK			1.01 H	121	69.1	43.3
3	*5755.00	101.9 AV			1.01 H	121	58.6	43.3
4	#5945.60	62.0 PK	68.2	-6.2	1.01 H	121	56.2	5.8
5	11510.00	63.5 PK	74.0	-10.5	2.43 H	29	51.4	12.1
6	11510.00	50.0 AV	54.0	-4.0	2.43 H	29	37.9	12.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.20	66.9 PK	68.2	-1.3	3.87 V	252	61.7	5.2
2	*5755.00	111.8 PK			3.87 V	252	68.5	43.3
3	*5755.00	101.4 AV			3.87 V	252	58.1	43.3
4	#5950.40	61.3 PK	68.2	-6.9	3.87 V	252	55.5	5.8
5	11510.00	65.2 PK	74.0	-8.8	3.63 V	24	53.1	12.1
6	11510.00	51.9 AV	54.0	-2.1	3.63 V	24	39.8	12.1

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

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	#5644.00	60.4 PK	68.2	-7.8	1.00 H	121	55.3	5.1
2	*5795.00	112.2 PK			1.00 H	121	68.8	43.4
3	*5795.00	101.7 AV			1.00 H	121	58.3	43.4
4	#5928.00	62.2 PK	68.2	-6.0	1.00 H	121	56.3	5.9
5	11590.00	63.0 PK	74.0	-11.0	2.47 H	31	51.3	11.7
6	11590.00	49.5 AV	54.0	-4.5	2.47 H	31	37.8	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	60.7 PK	68.2	-7.5	3.92 V	254	55.6	5.1
2	*5795.00	111.6 PK			3.92 V	254	68.2	43.4
3	*5795.00	101.2 AV			3.92 V	254	57.8	43.4
4	#5933.20	62.2 PK	68.2	-6.0	3.92 V	254	56.4	5.8
5	11590.00	64.6 PK	74.0	-9.4	3.61 V	25	52.9	11.7
6	11590.00	51.4 AV	54.0	-2.6	3.61 V	25	39.7	11.7

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 66% RH
Tested By	Greg Lin		

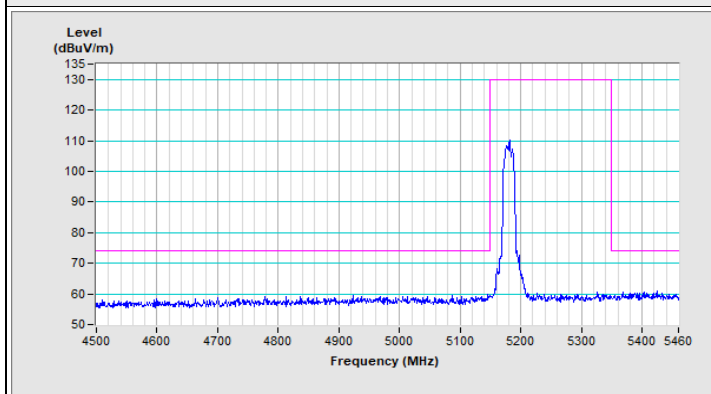
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	67.8 PK	68.2	-0.4	1.00 H	121	62.7	5.1
2	*5775.00	107.5 PK			1.00 H	121	64.1	43.4
3	*5775.00	97.2 AV			1.00 H	121	53.8	43.4
4	#5926.00	62.7 PK	68.2	-5.5	1.00 H	121	56.8	5.9
5	11550.00	60.8 PK	74.0	-13.2	2.36 H	60	48.9	11.9
6	11550.00	47.4 AV	54.0	-6.6	2.36 H	60	35.5	11.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	67.3 PK	68.2	-0.9	3.89 V	252	62.2	5.1
2	*5775.00	107.0 PK			3.89 V	252	63.6	43.4
3	*5775.00	96.7 AV			3.89 V	252	53.3	43.4
4	#5925.20	63.6 PK	68.2	-4.6	3.89 V	252	57.7	5.9
5	11550.00	62.3 PK	74.0	-11.7	2.68 V	17	50.4	11.9
6	11550.00	48.6 AV	54.0	-5.4	2.68 V	17	36.7	11.9

Remarks:

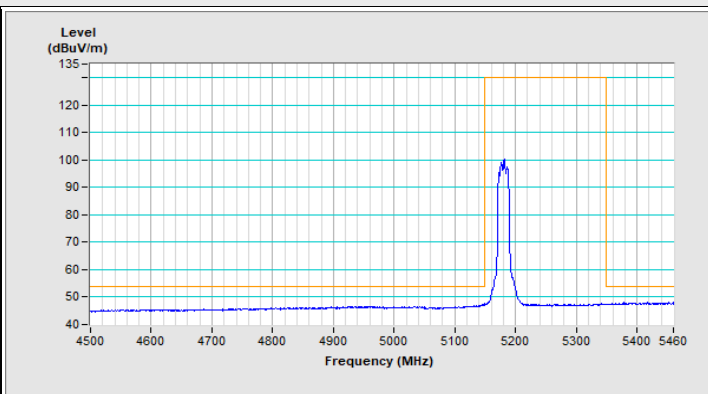
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

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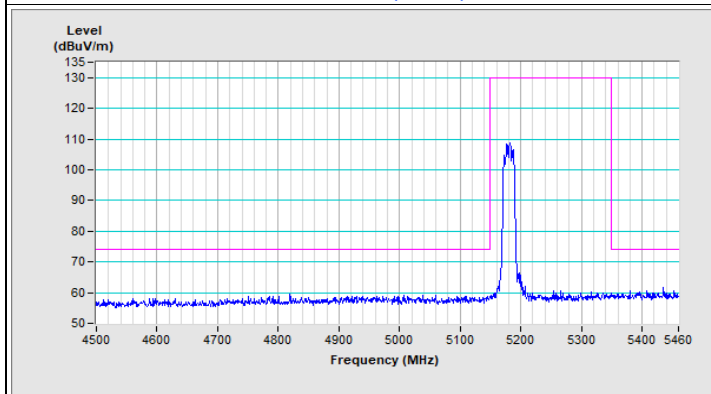
802.11a Channel 36



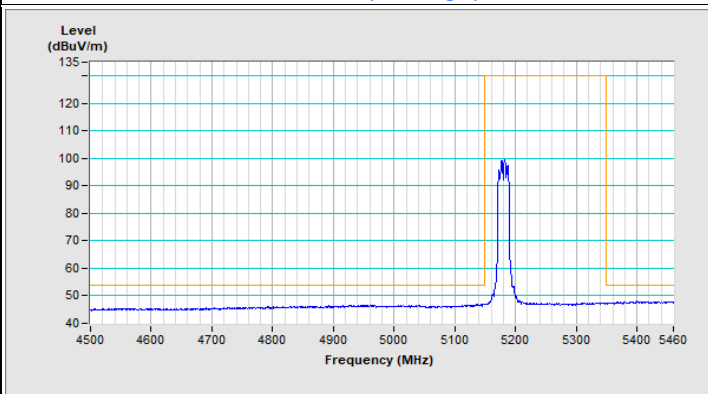
Horizontal (Peak)



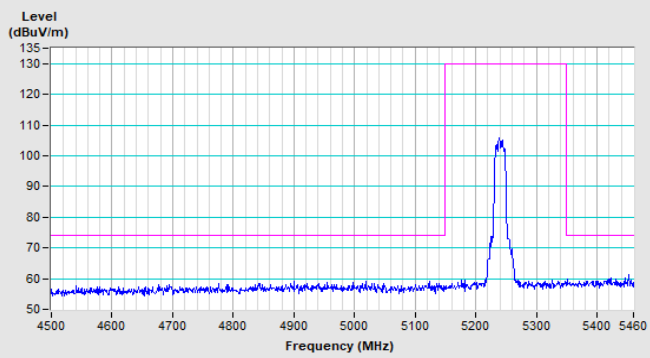
Horizontal (Average)



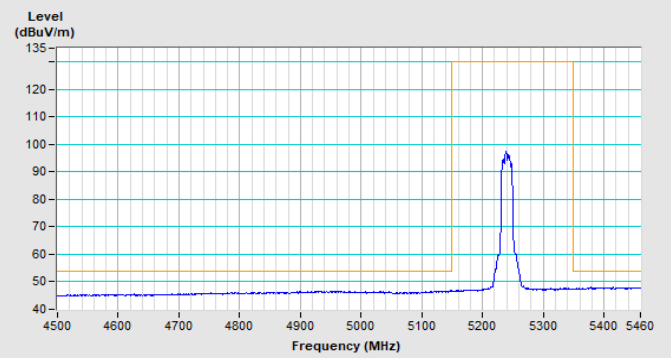
Vertical (Peak)



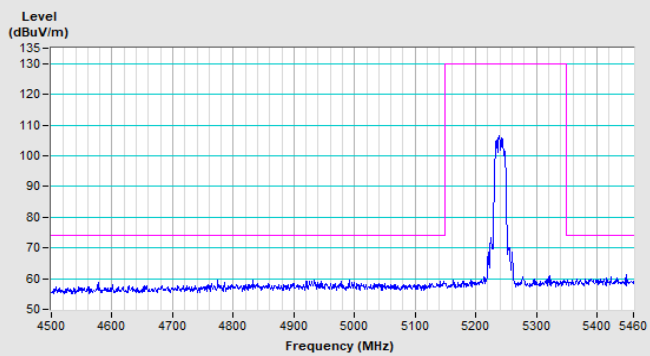
Vertical (Average)

802.11a Channel 48

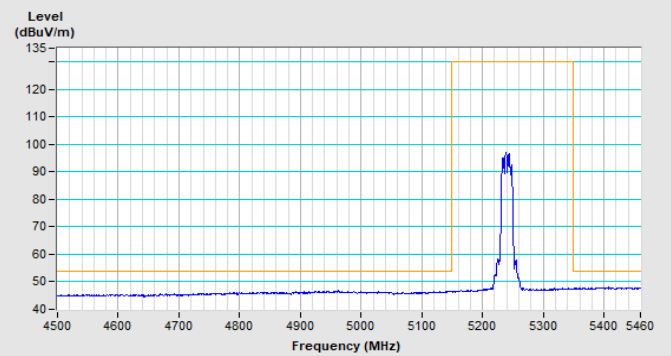
Horizontal (Peak)



Horizontal (Average)



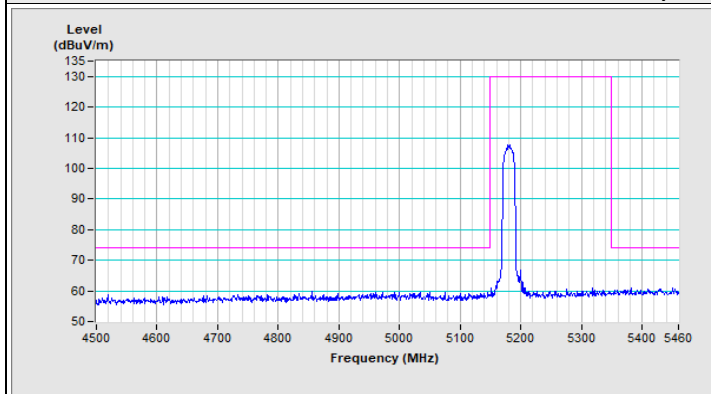
Vertical (Peak)



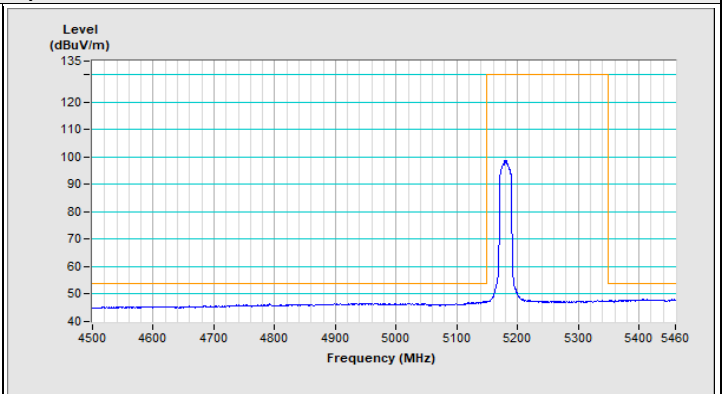
Vertical (Average)

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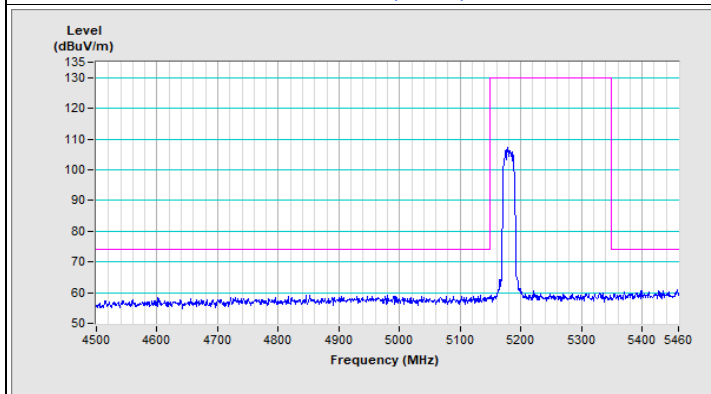
802.11ac (VHT20) Channel 36



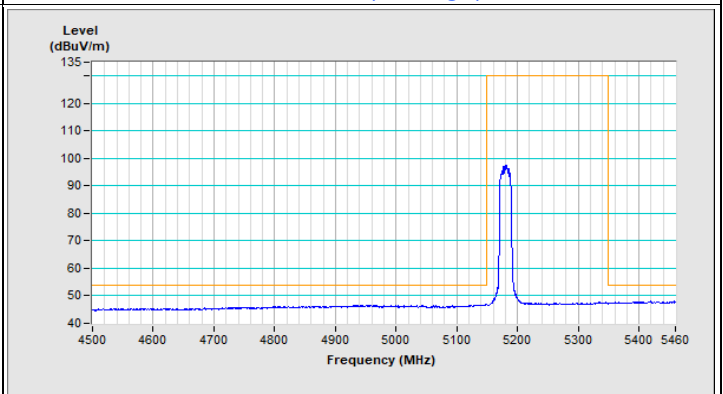
Horizontal (Peak)



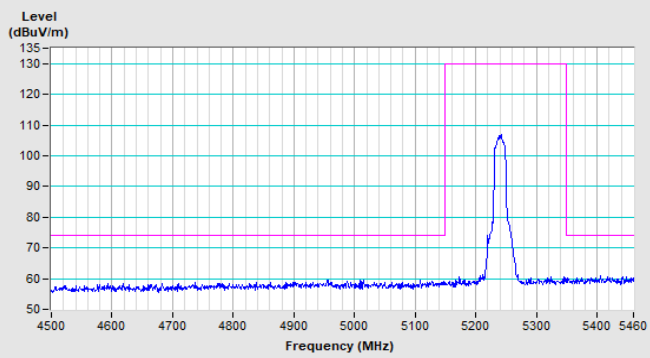
Horizontal (Average)



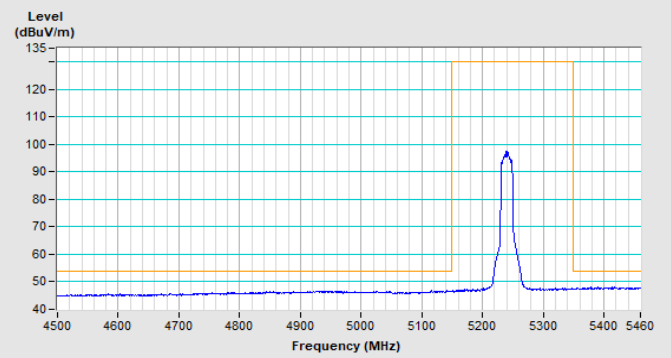
Vertical (Peak)



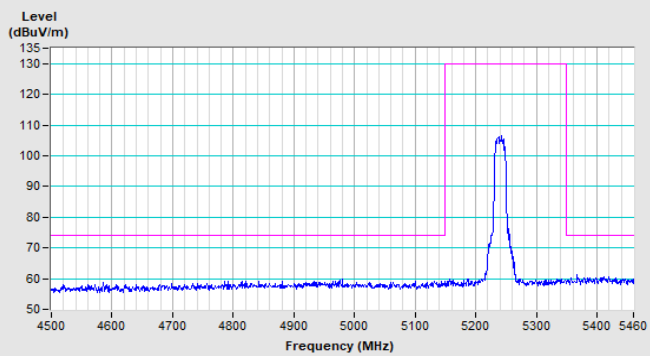
Vertical (Average)

802.11ac (VHT20) Channel 48

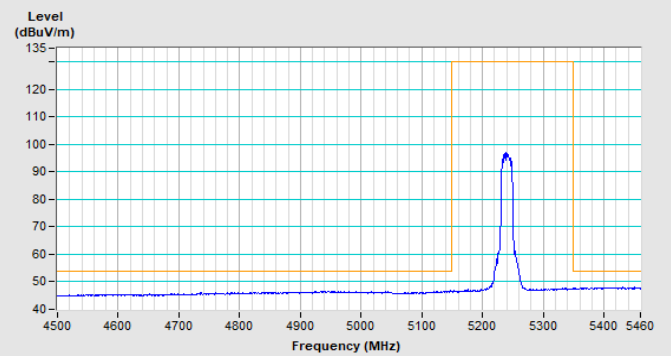
Horizontal (Peak)



Horizontal (Average)



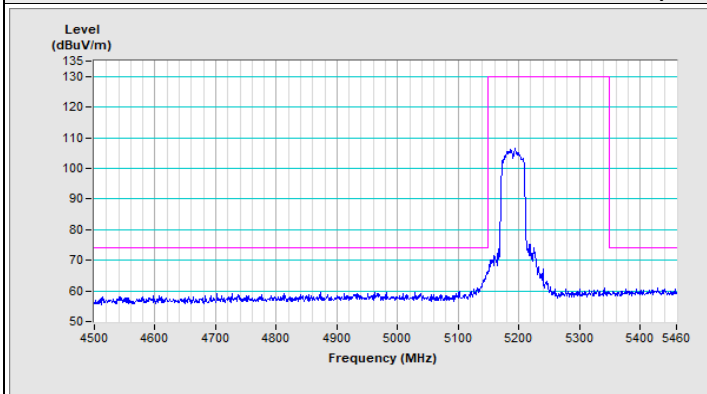
Vertical (Peak)



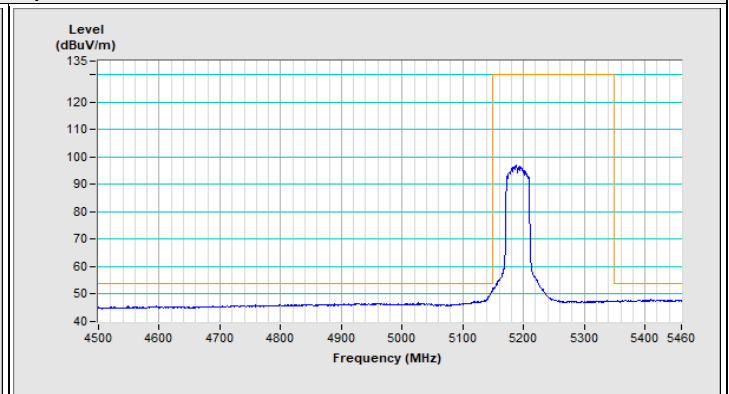
Vertical (Average)

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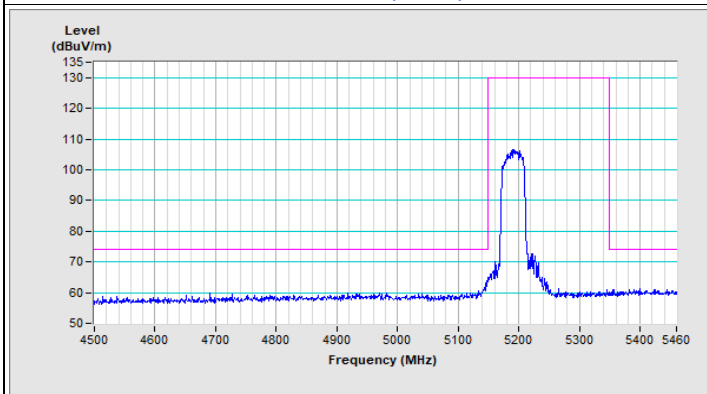
802.11ac (VHT40) Channel 38



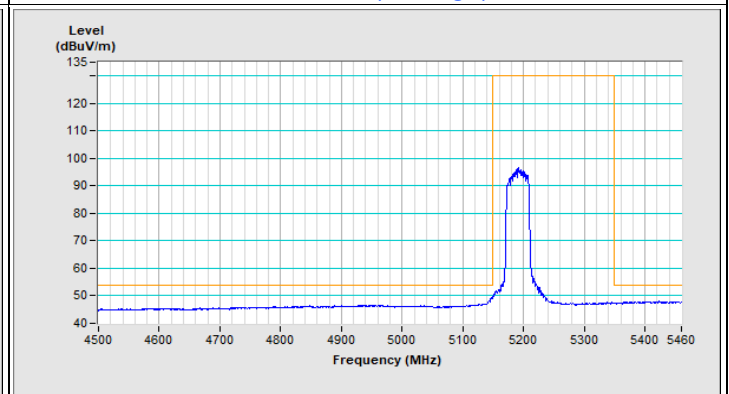
Horizontal (Peak)



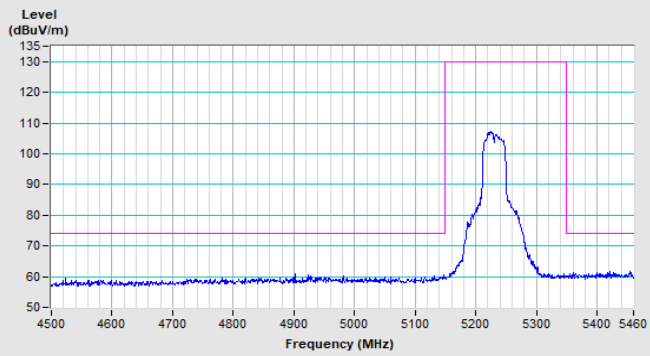
Horizontal (Average)



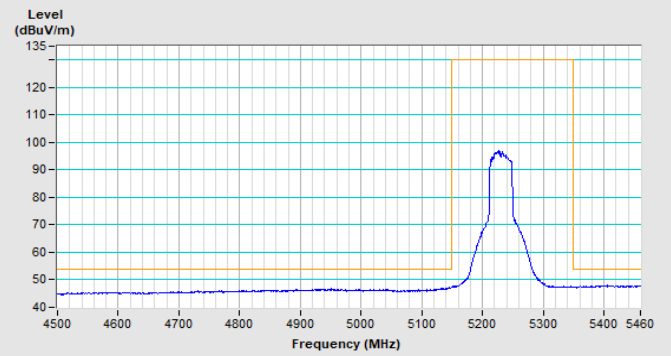
Vertical (Peak)



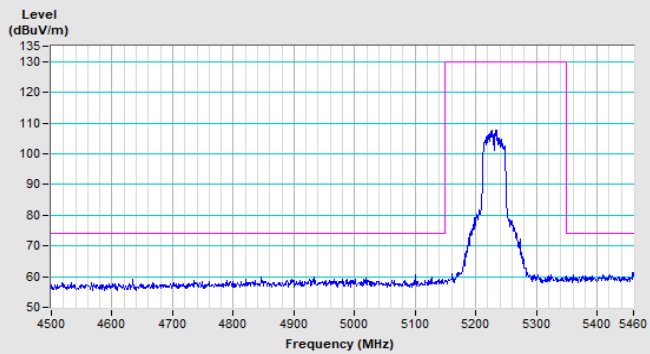
Vertical (Average)

802.11ac (VHT40) Channel 46

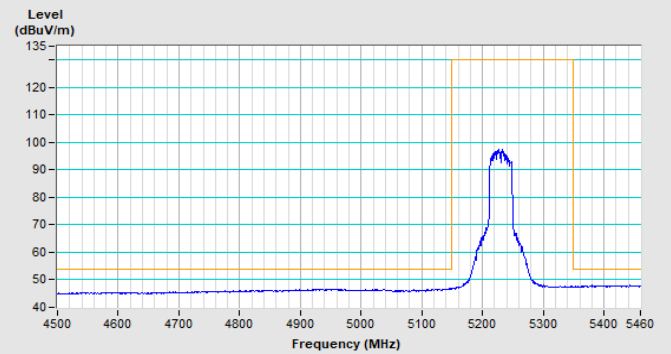
Horizontal (Peak)



Horizontal (Average)



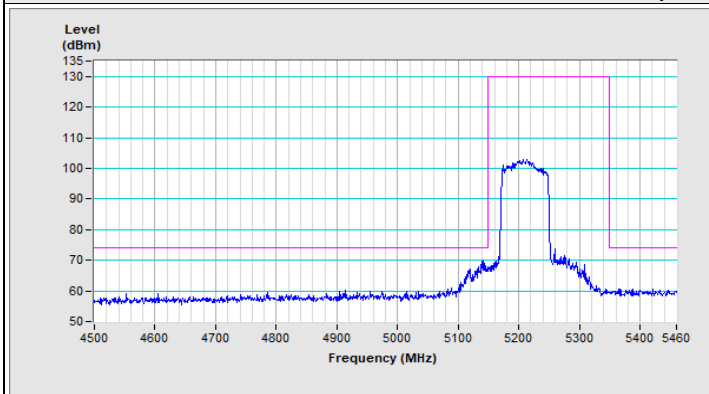
Vertical (Peak)



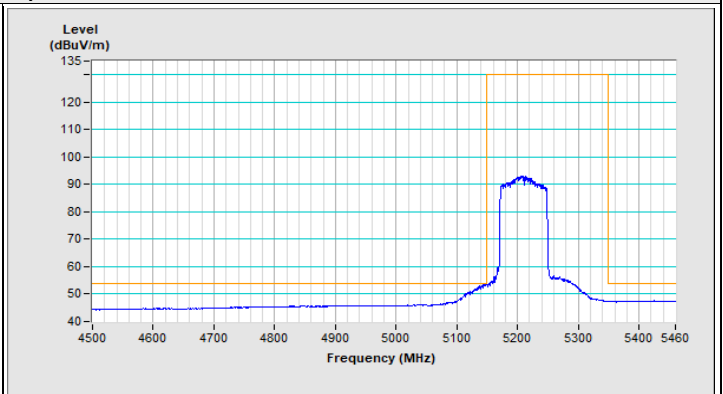
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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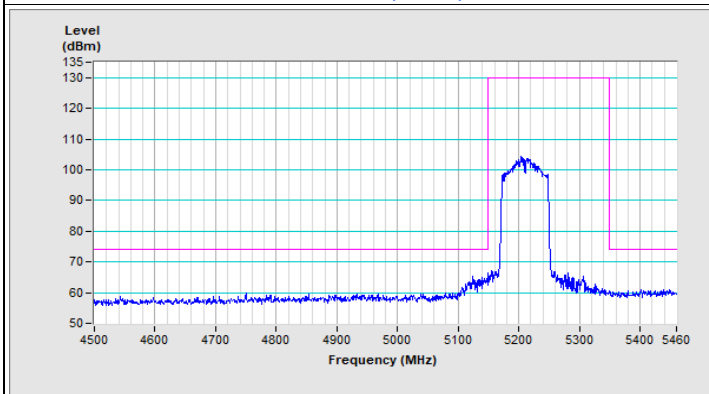
802.11ac (VHT80) Channel 42



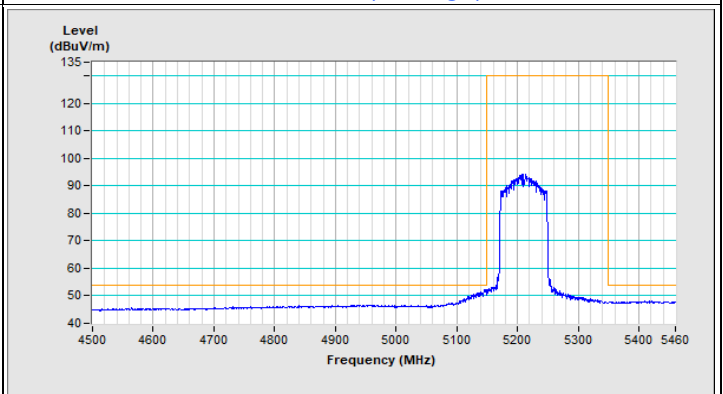
Horizontal (Peak)



Horizontal (Average)



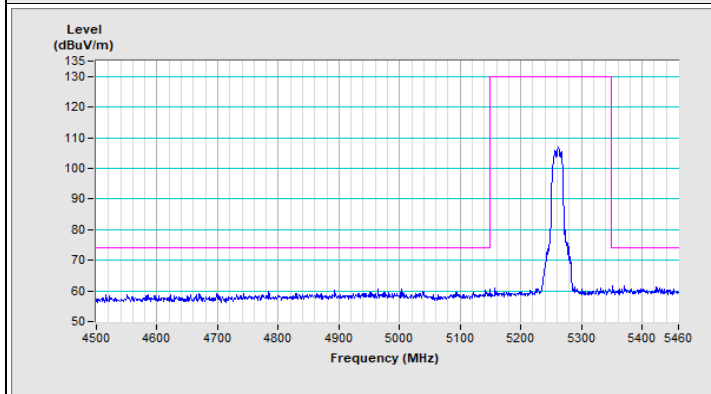
Vertical (Peak)



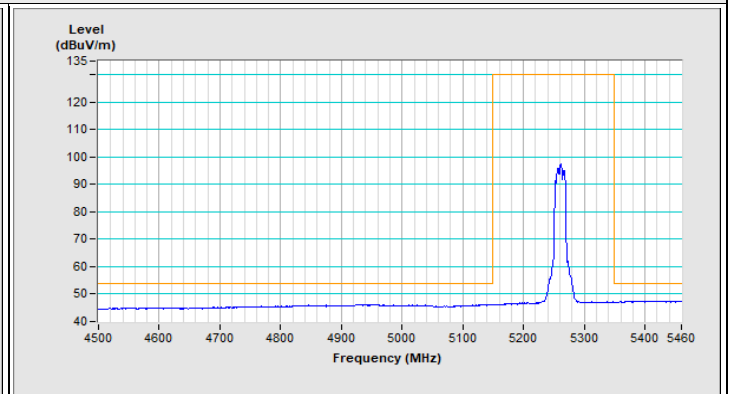
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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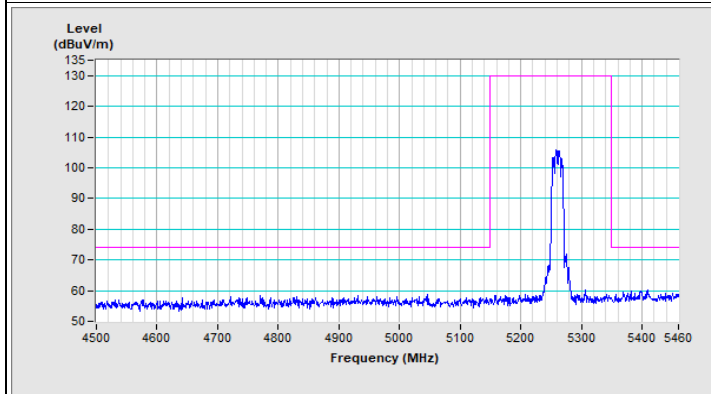
802.11a Channel 52



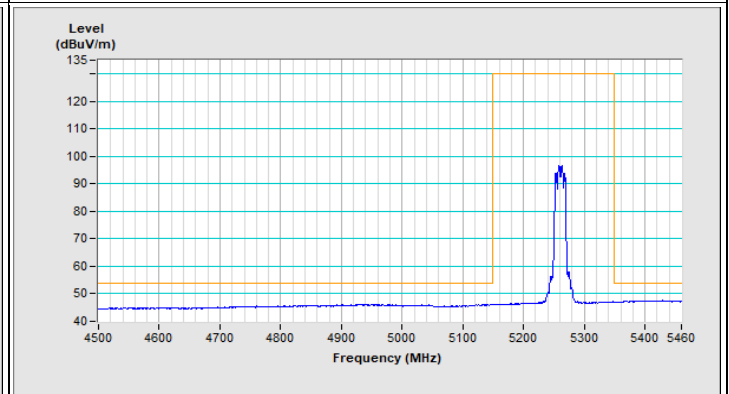
Horizontal (Peak)



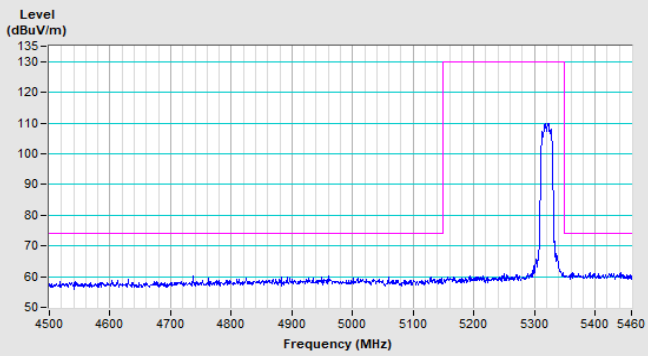
Horizontal (Average)



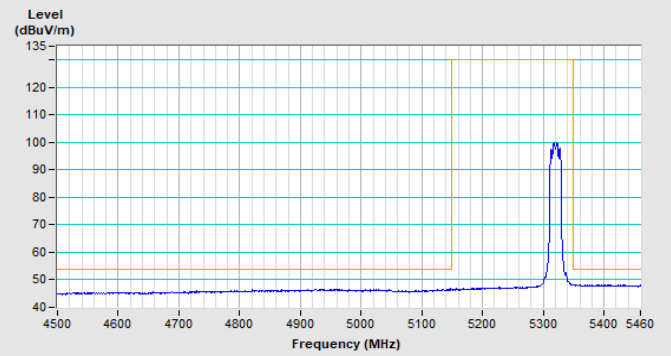
Vertical (Peak)



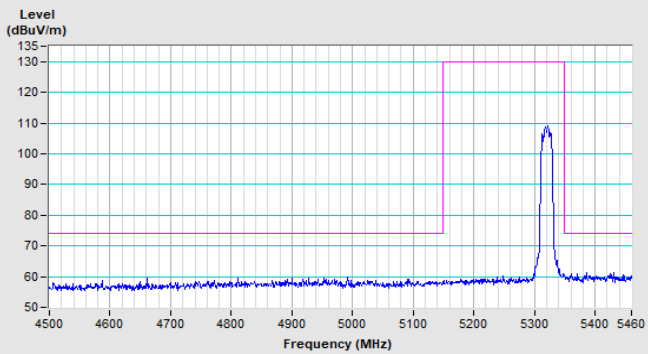
Vertical (Average)

802.11a Channel 64

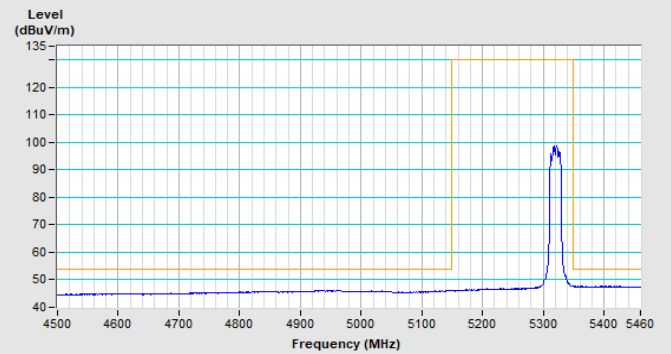
Horizontal (Peak)



Horizontal (Average)



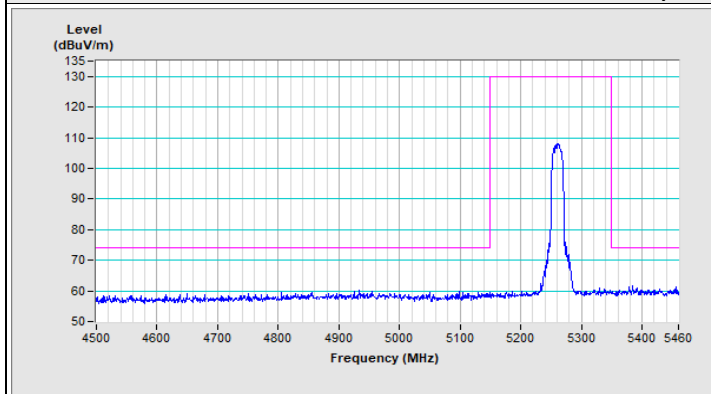
Vertical (Peak)



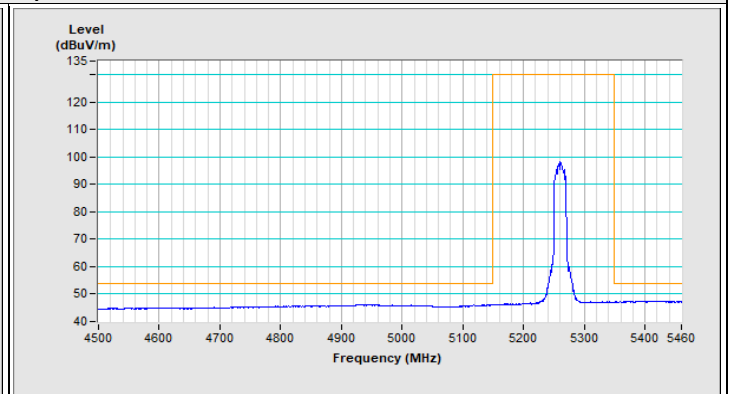
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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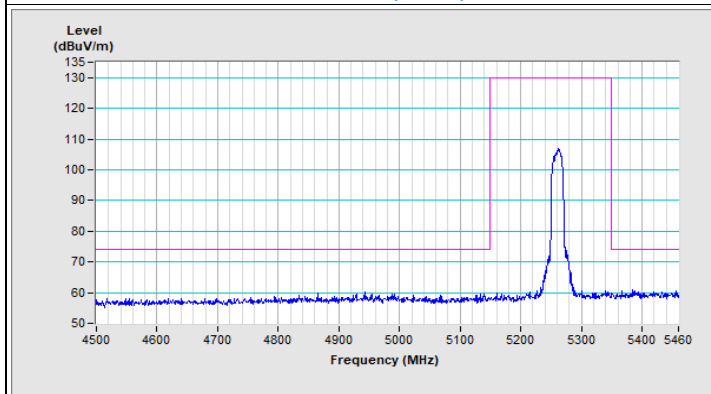
802.11ac (VHT20) Channel 52



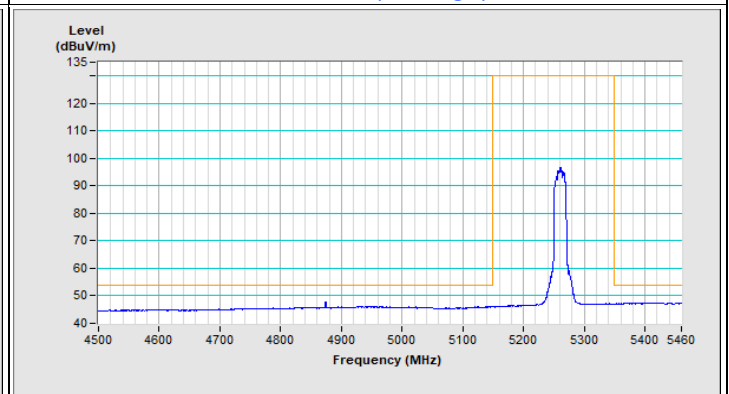
Horizontal (Peak)



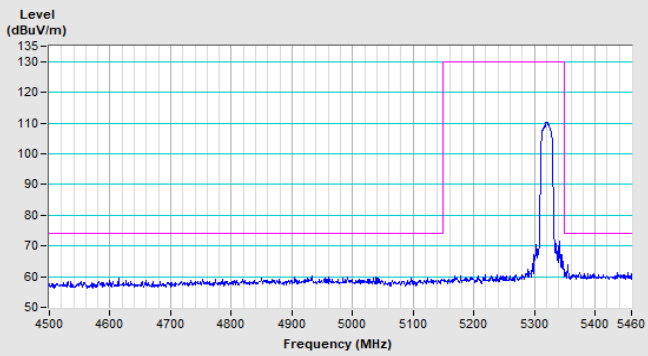
Horizontal (Average)



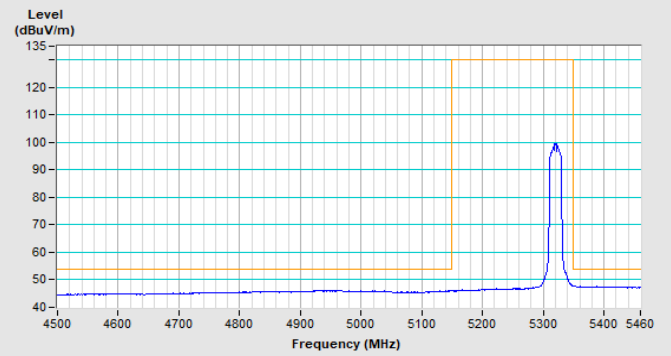
Vertical (Peak)



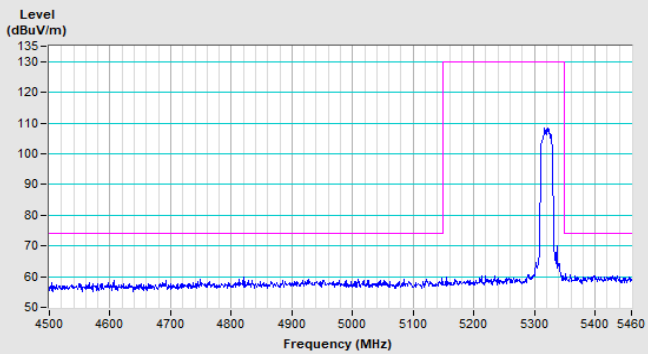
Vertical (Average)

802.11ac (VHT20) Channel 64

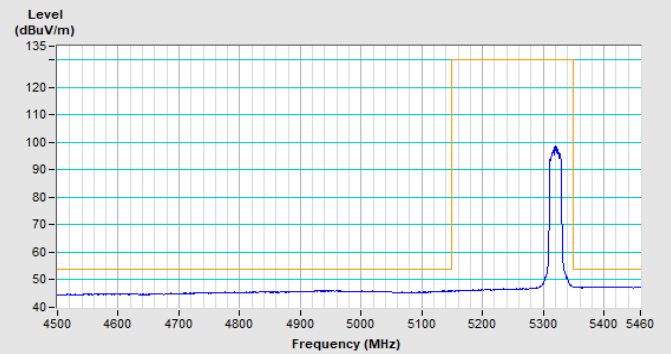
Horizontal (Peak)



Horizontal (Average)



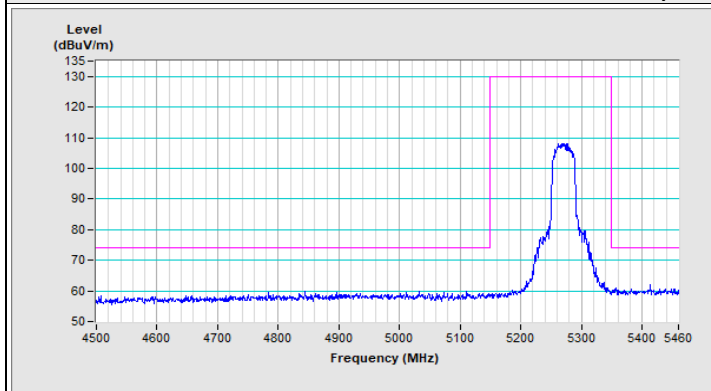
Vertical (Peak)



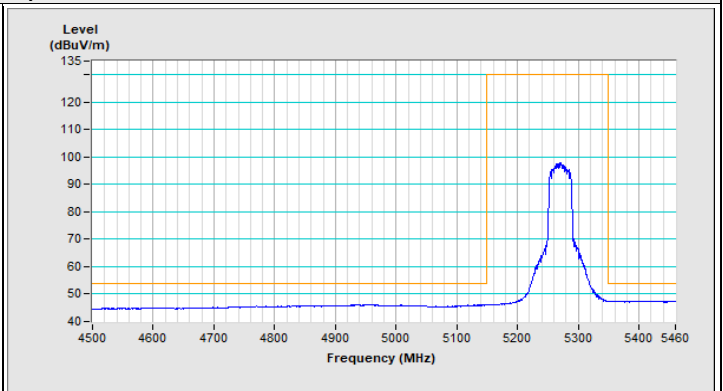
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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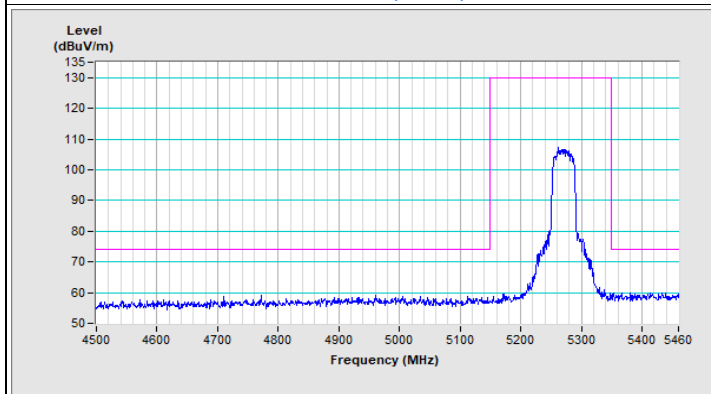
802.11ac (VHT40) Channel 54



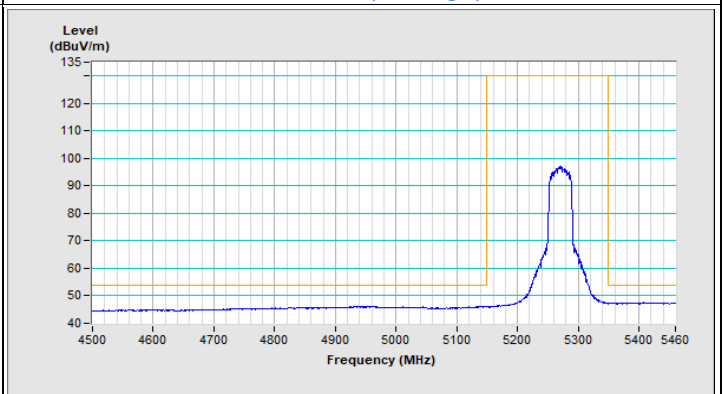
Horizontal (Peak)



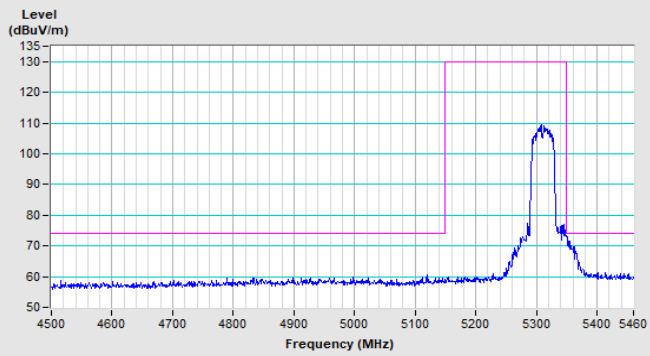
Horizontal (Average)



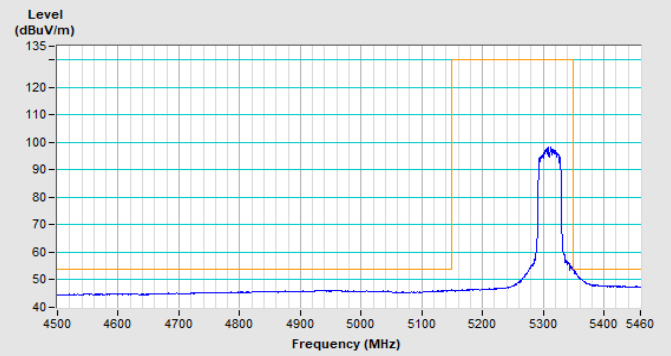
Vertical (Peak)



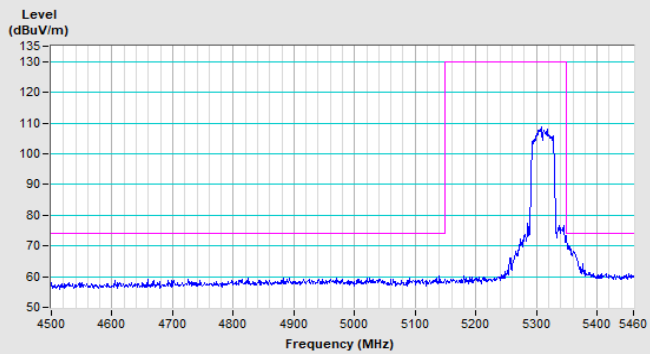
Vertical (Average)

802.11ac (VHT40) Channel 62

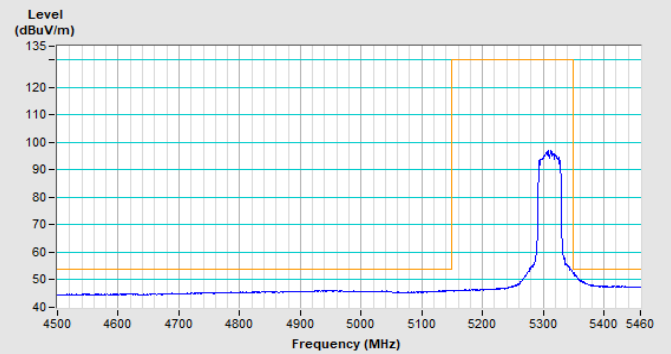
Horizontal (Peak)



Horizontal (Average)



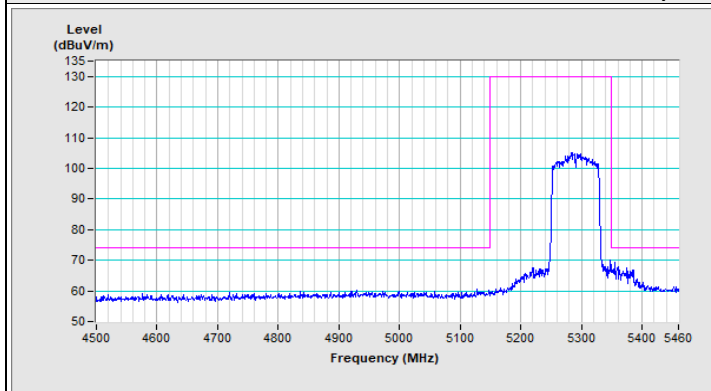
Vertical (Peak)



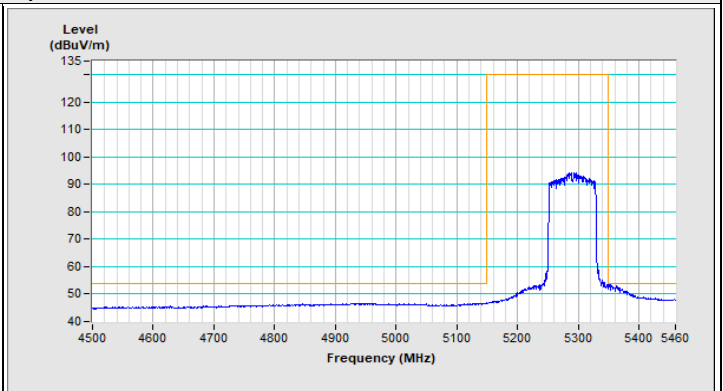
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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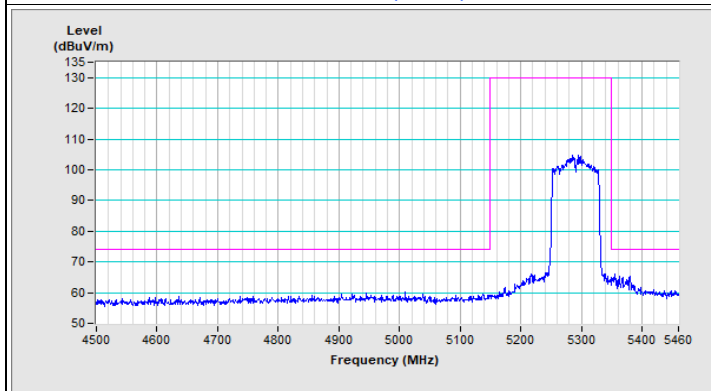
802.11ac (VHT80) Channel 58



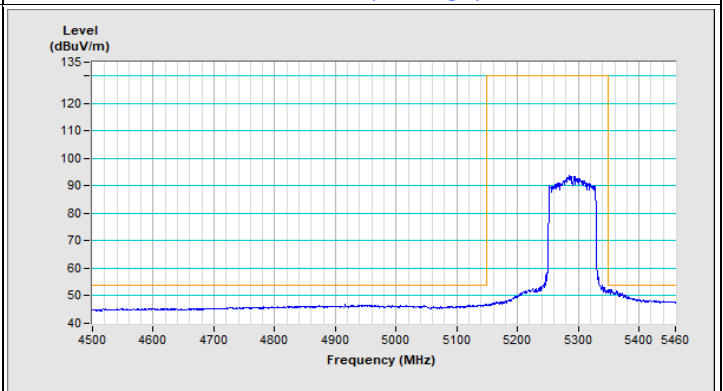
Horizontal (Peak)



Horizontal (Average)



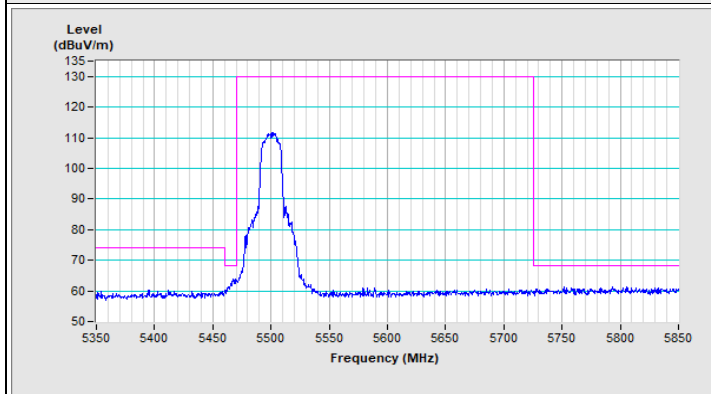
Vertical (Peak)



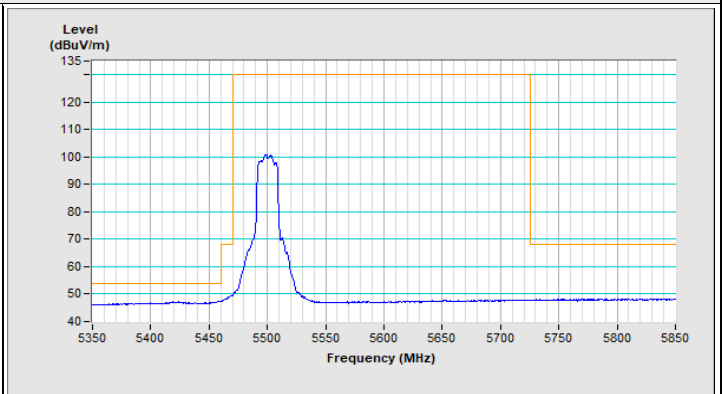
Vertical (Average)

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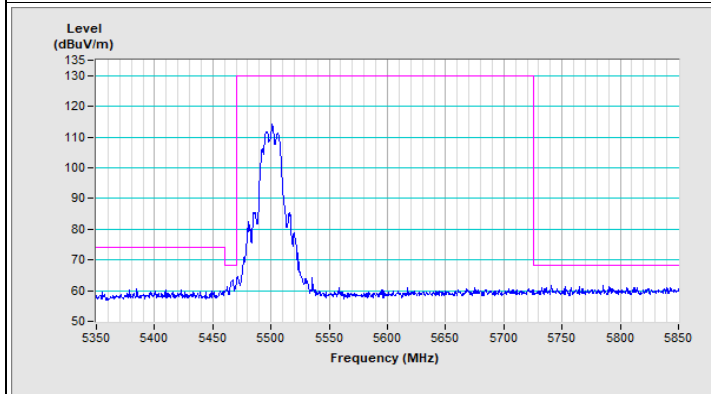
802.11a Channel 100



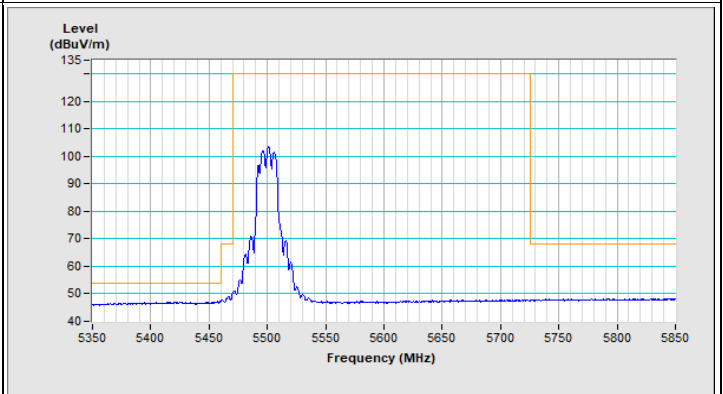
Horizontal (Peak)



Horizontal (Average)

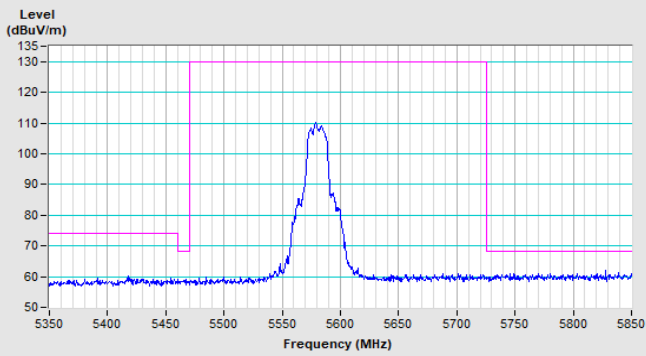


Vertical (Peak)

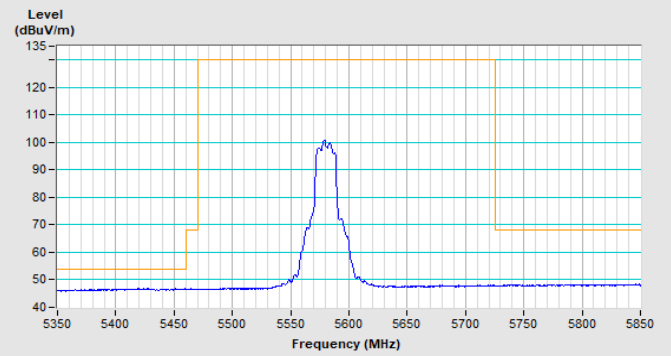


Vertical (Average)

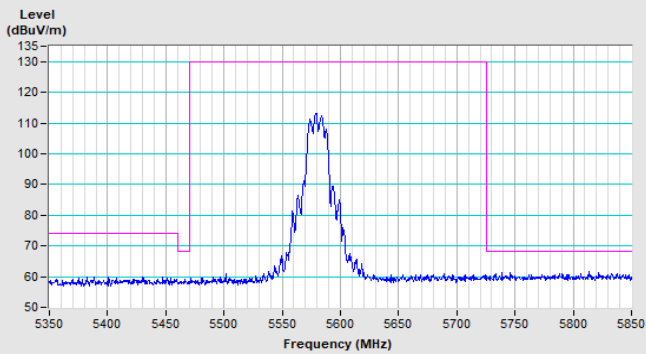
802.11a Channel 116



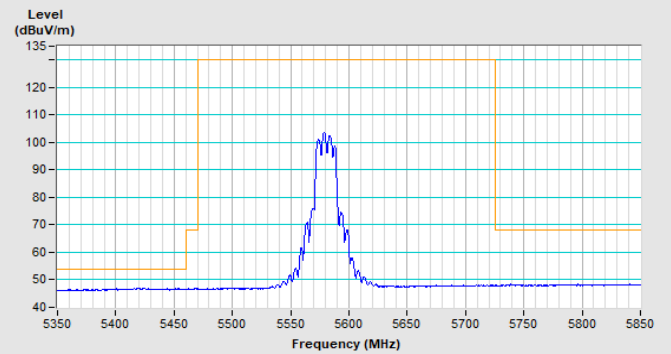
Horizontal (Peak)



Horizontal (Average)

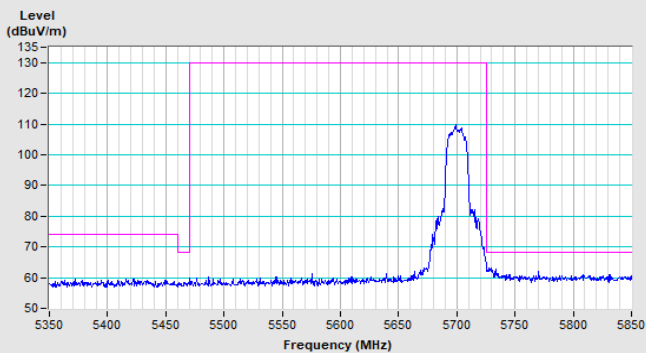


Vertical (Peak)

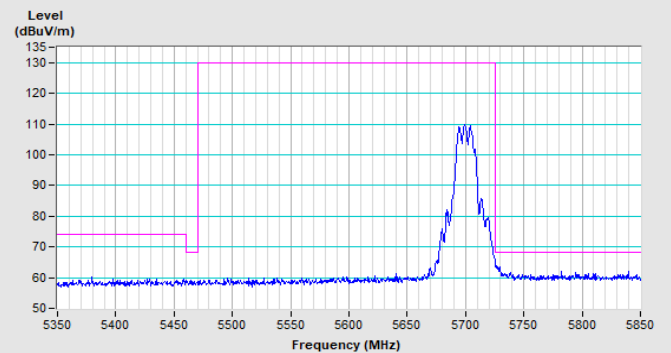


Vertical (Average)

802.11a Channel 140



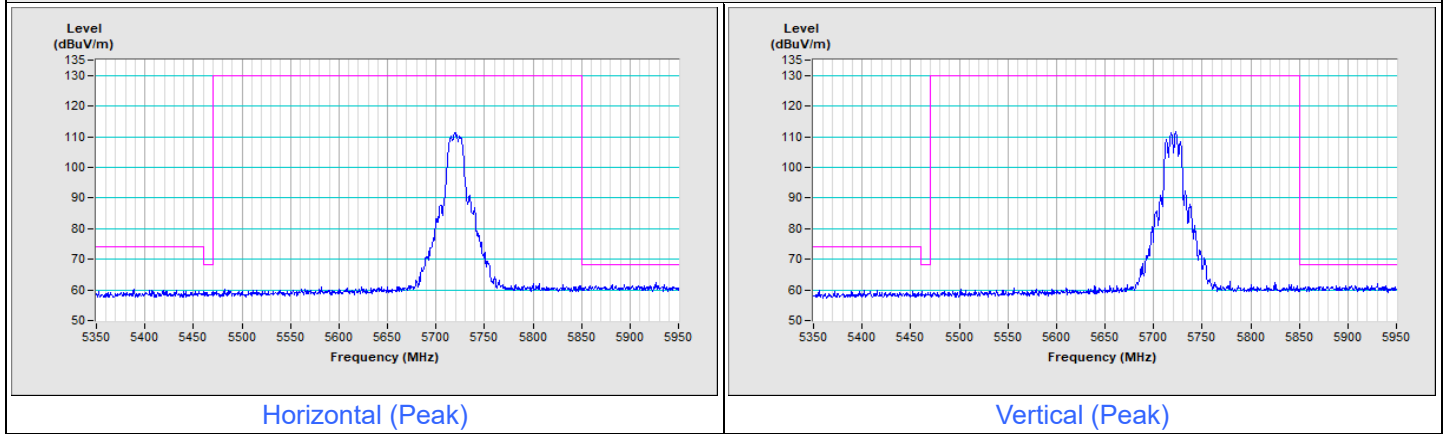
Horizontal (Peak)



Vertical (Peak)

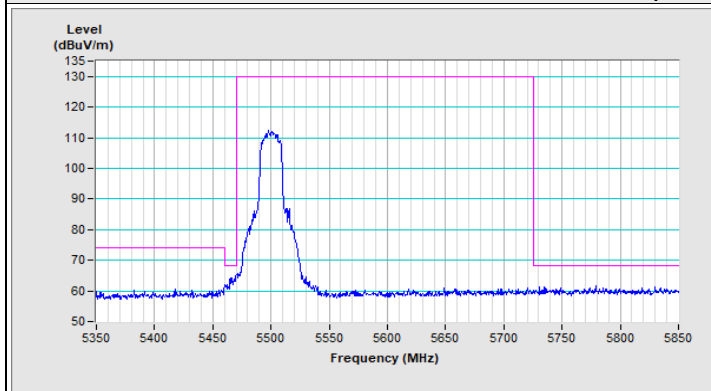
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

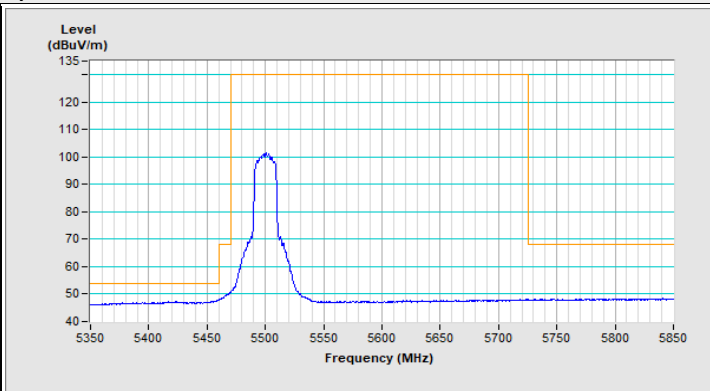


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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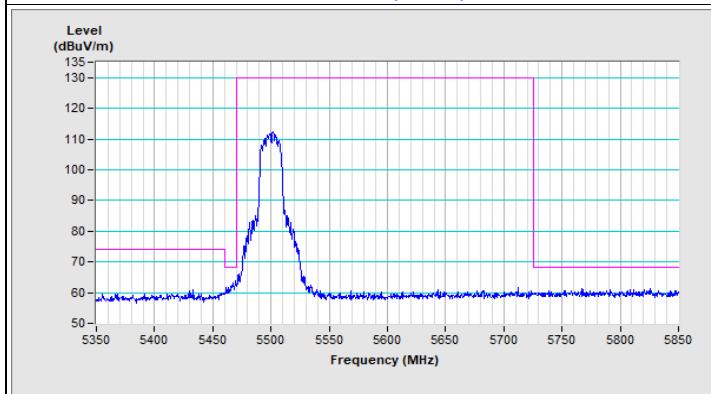
802.11ac (VHT20) Channel 100



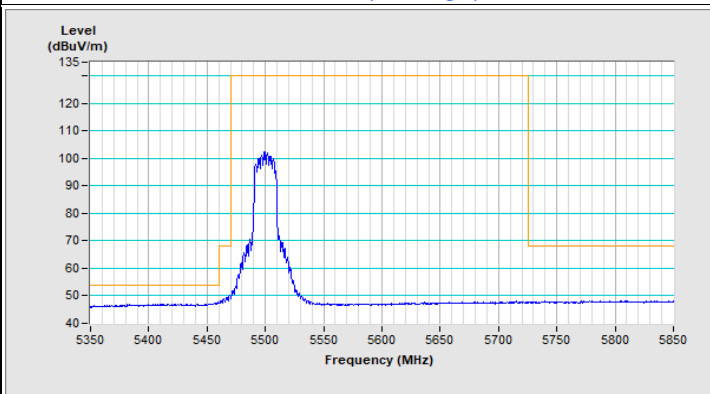
Horizontal (Peak)



Horizontal (Average)

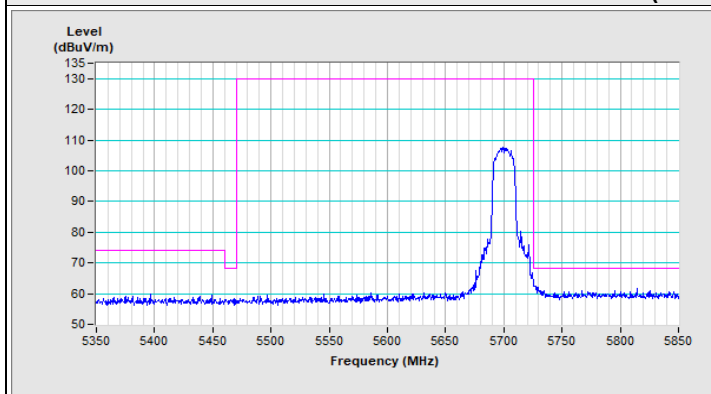


Vertical (Peak)

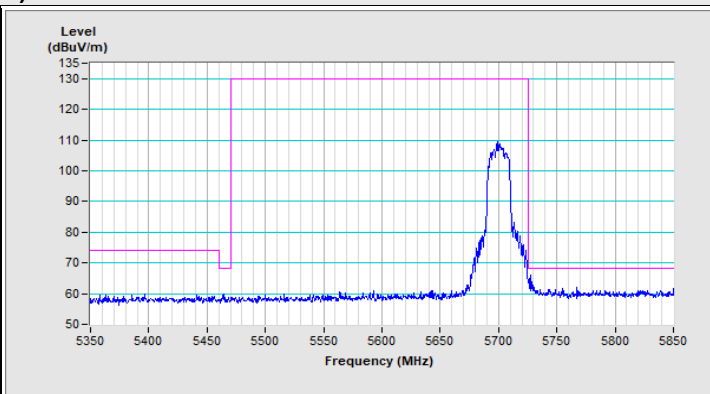


Vertical (Average)

802.11ac (VHT20) Channel 140



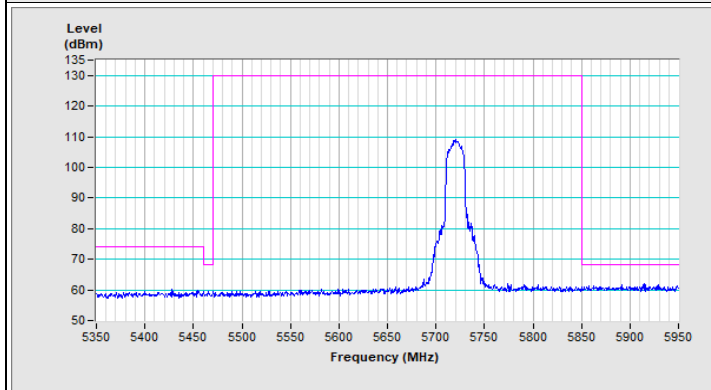
Horizontal (Peak)



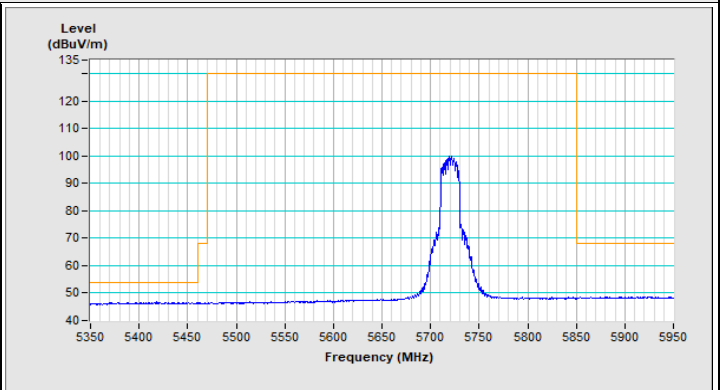
Vertical (Peak)

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



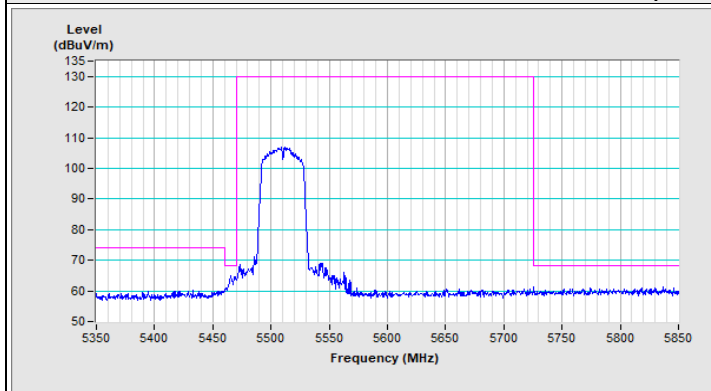
Horizontal (Peak)



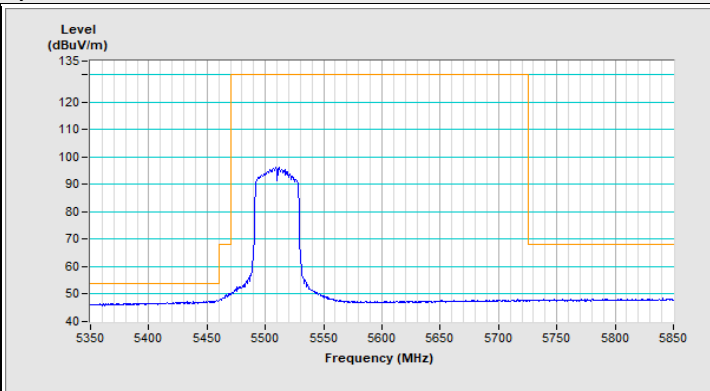
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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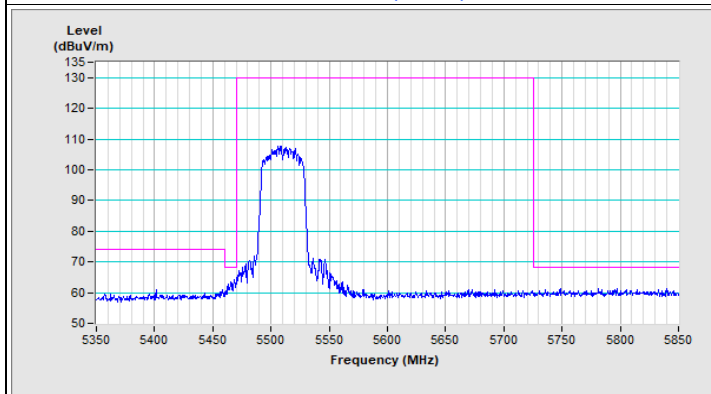
802.11ac (VHT40) Channel 102



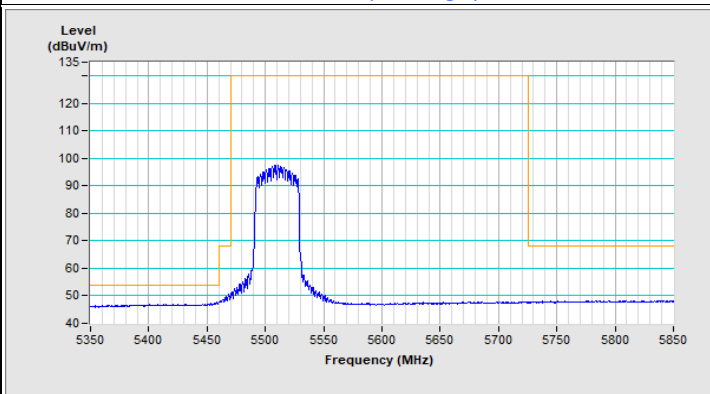
Horizontal (Peak)



Horizontal (Average)

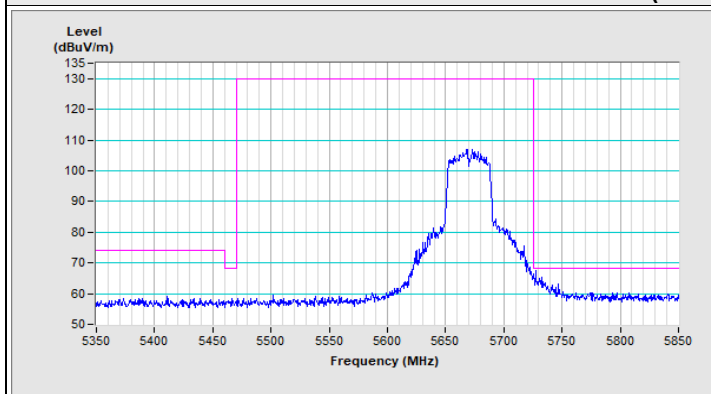


Vertical (Peak)

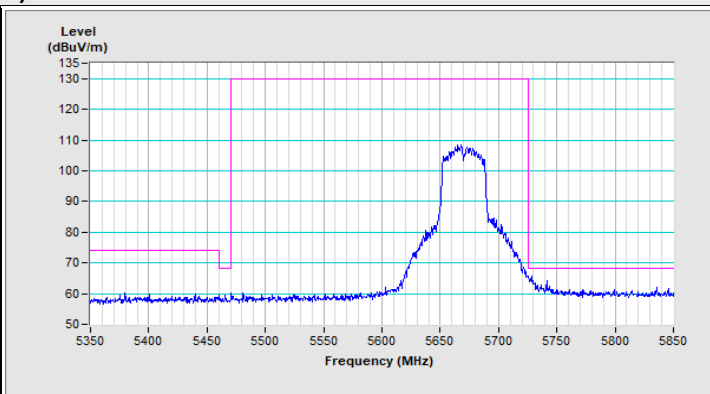


Vertical (Average)

802.11ac (VHT40) Channel 134



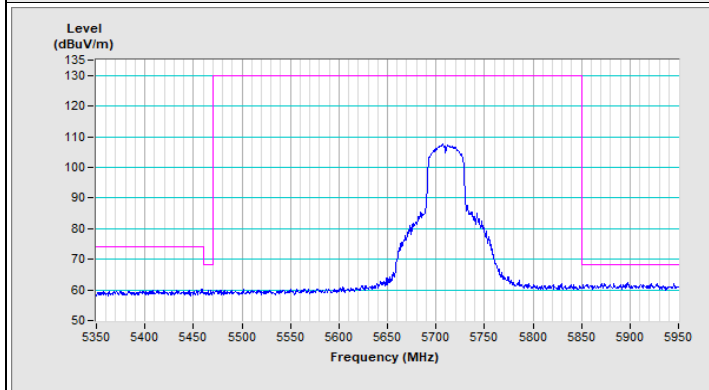
Horizontal (Peak)



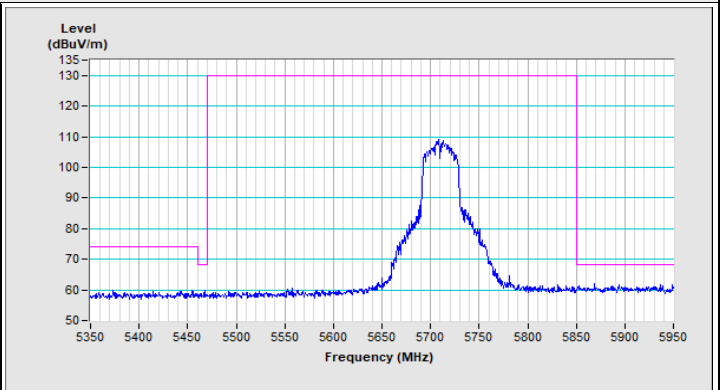
Vertical (Peak)

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 (VHT40) Channel 142



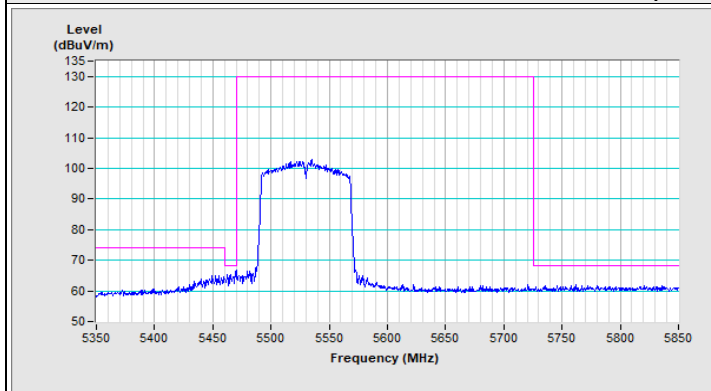
Horizontal (Peak)



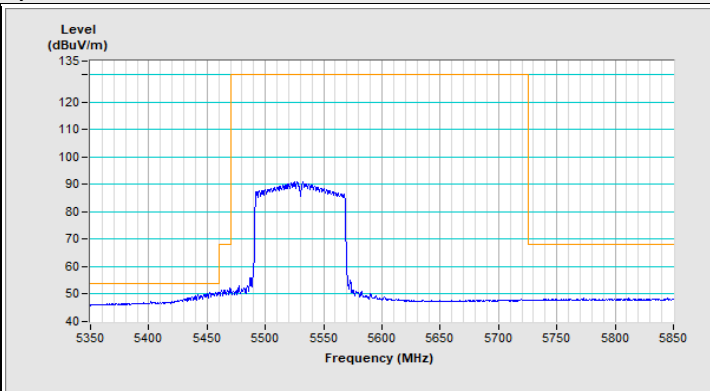
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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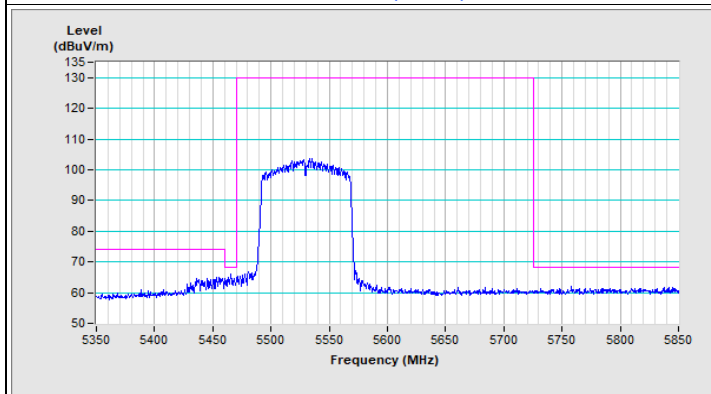
802.11ac (VHT80) Channel 106



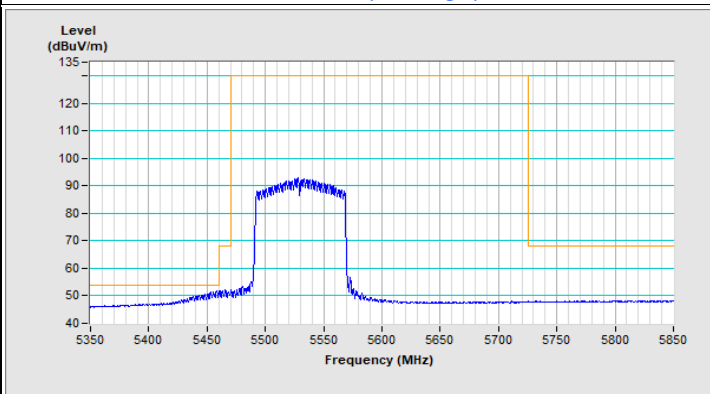
Horizontal (Peak)



Horizontal (Average)

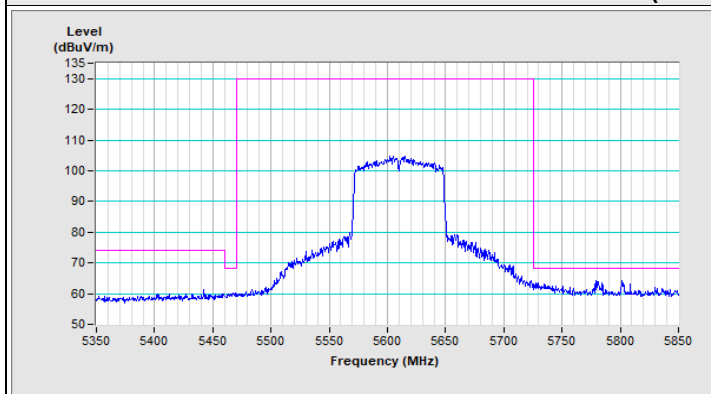


Vertical (Peak)

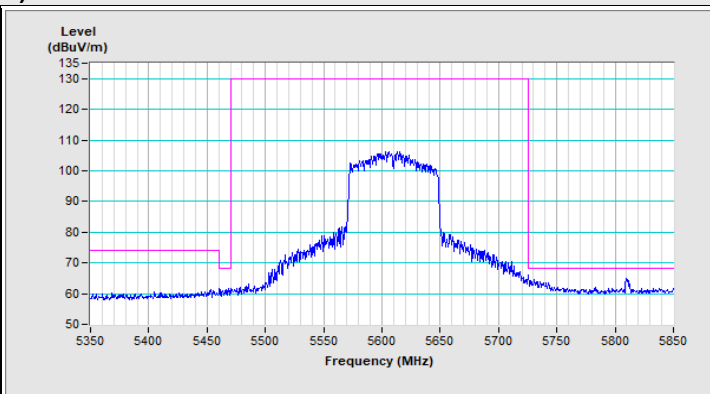


Vertical (Average)

802.11ac (VHT80) Channel 122



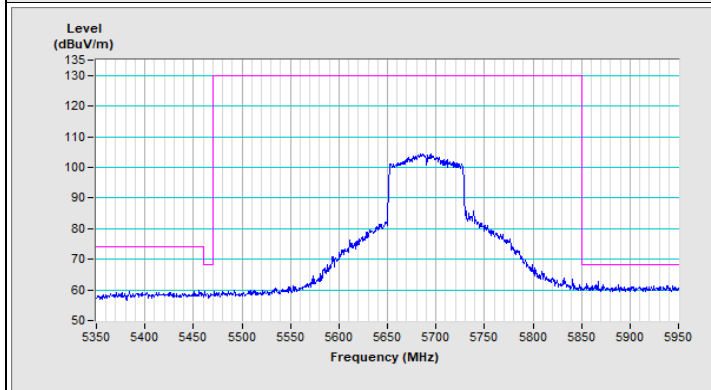
Horizontal (Peak)



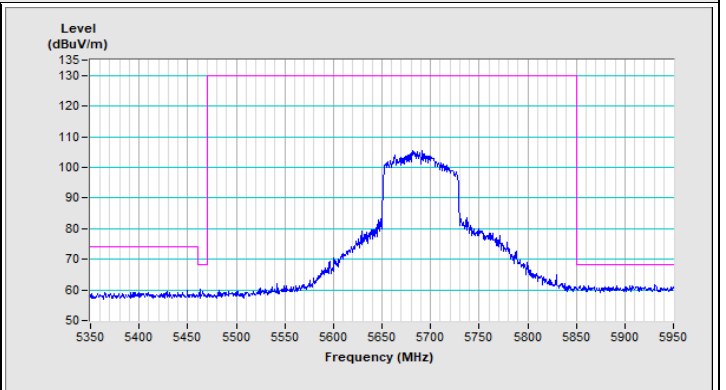
Vertical (Peak)

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 (VHT80) Channel 138



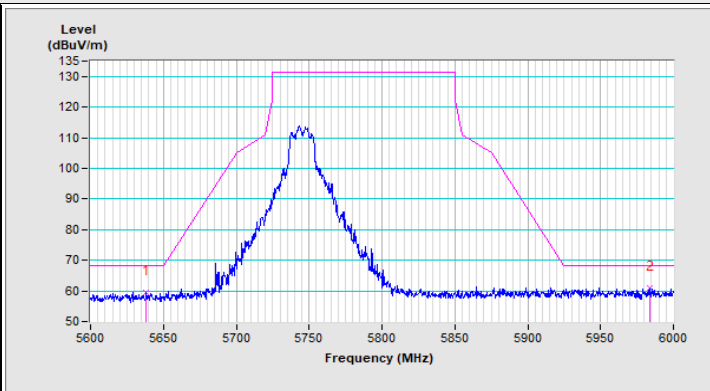
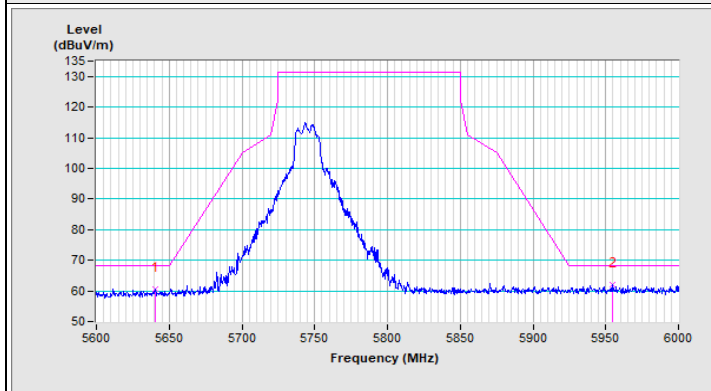
Horizontal (Peak)



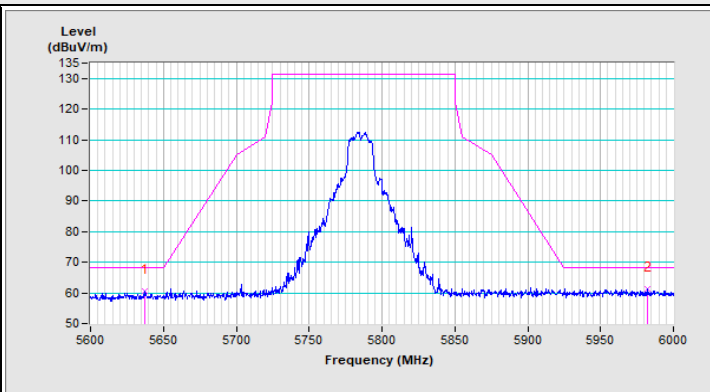
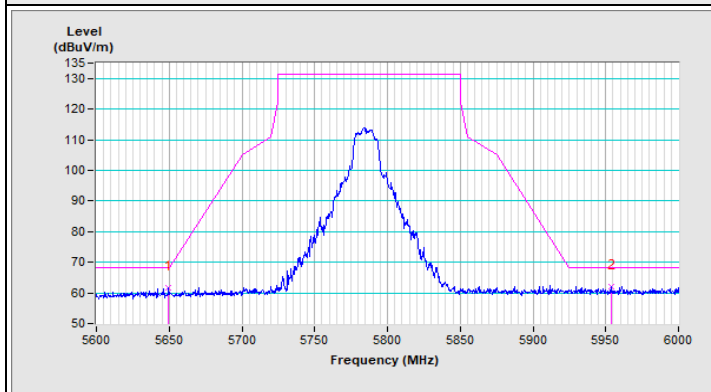
Vertical (Peak)

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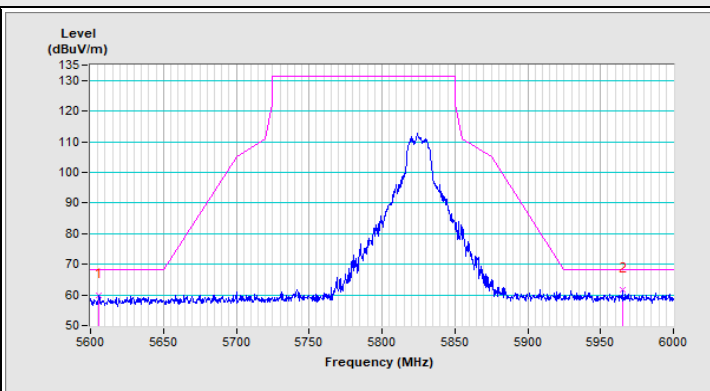
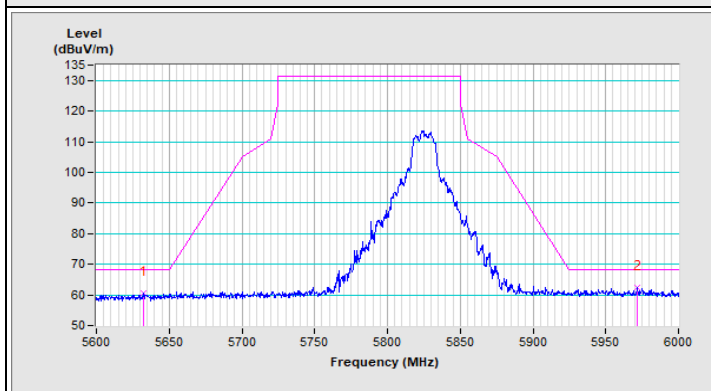
802.11a Channel 149



802.11a Channel 157

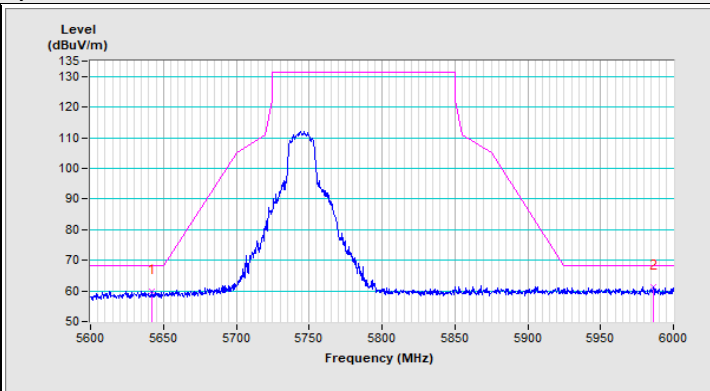
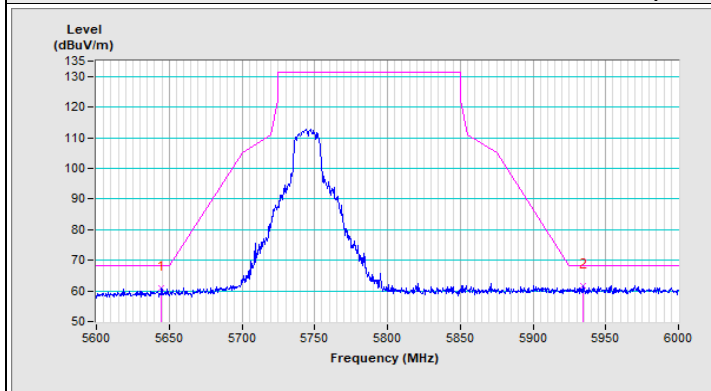


802.11a Channel 165

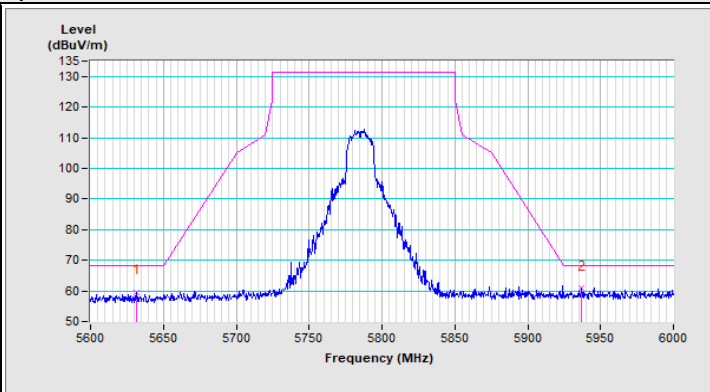
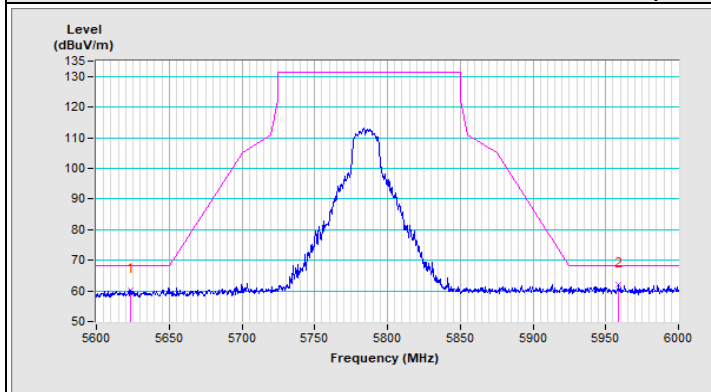


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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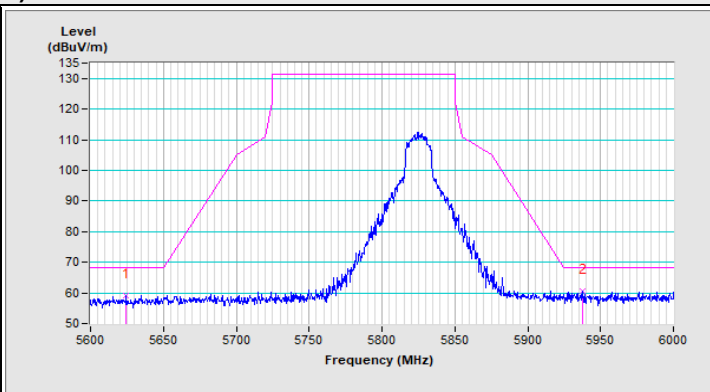
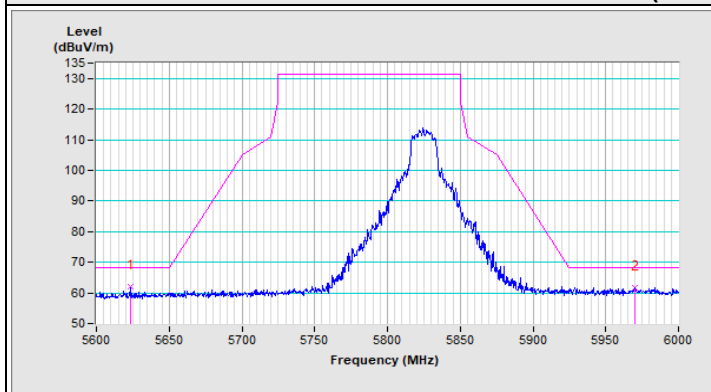
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

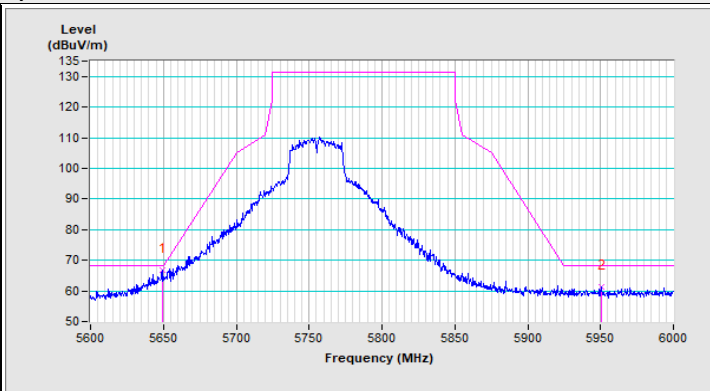
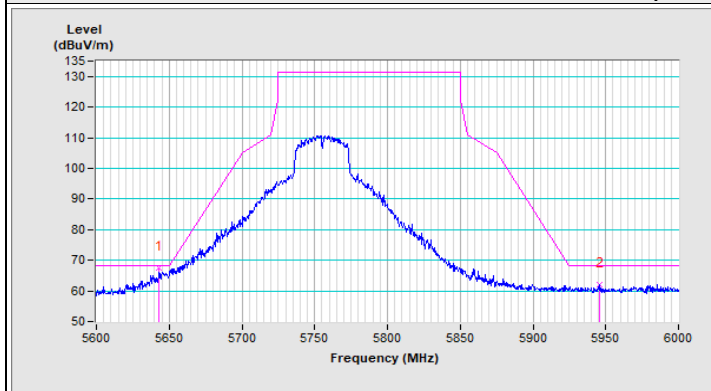


802.11ac (VHT20) Channel 165

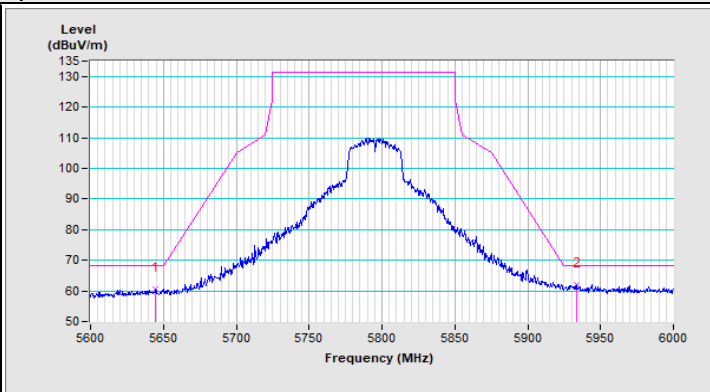
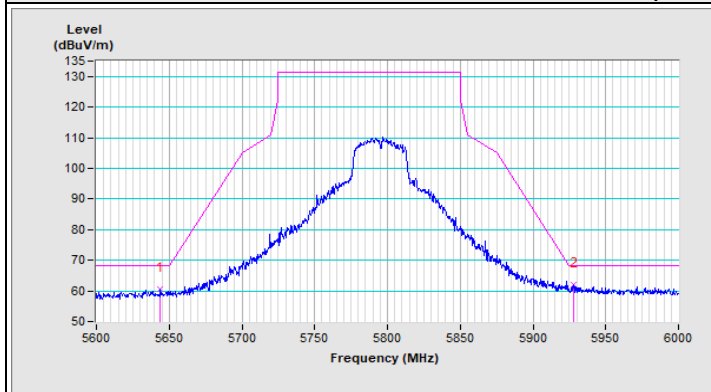


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151

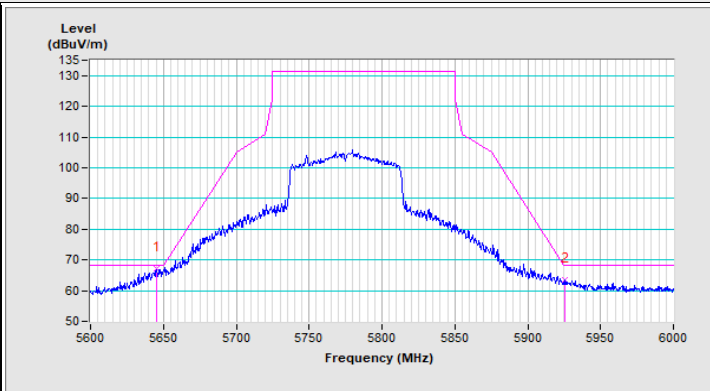
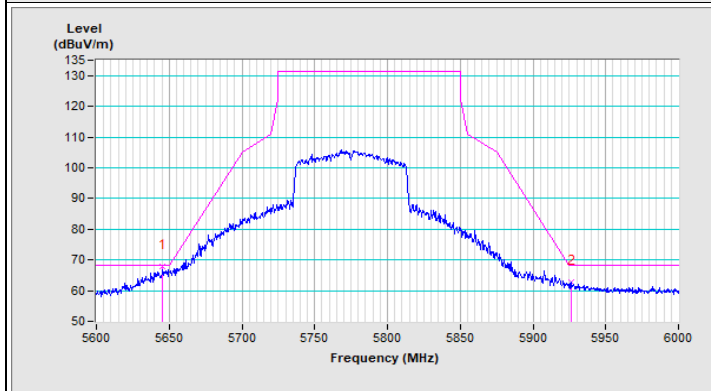


802.11ac (VHT40) Channel 159



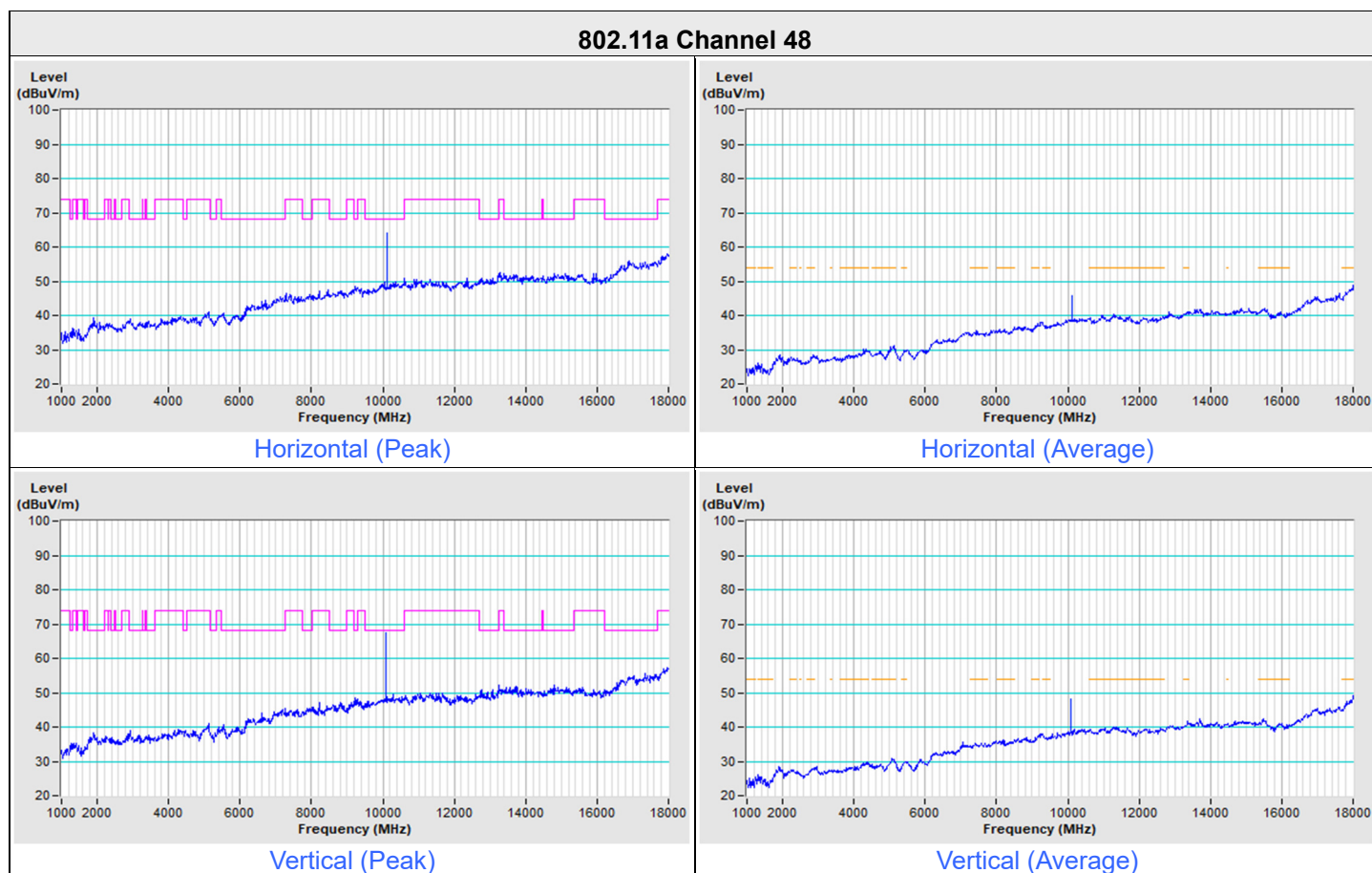
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155



Plot of Other emissions

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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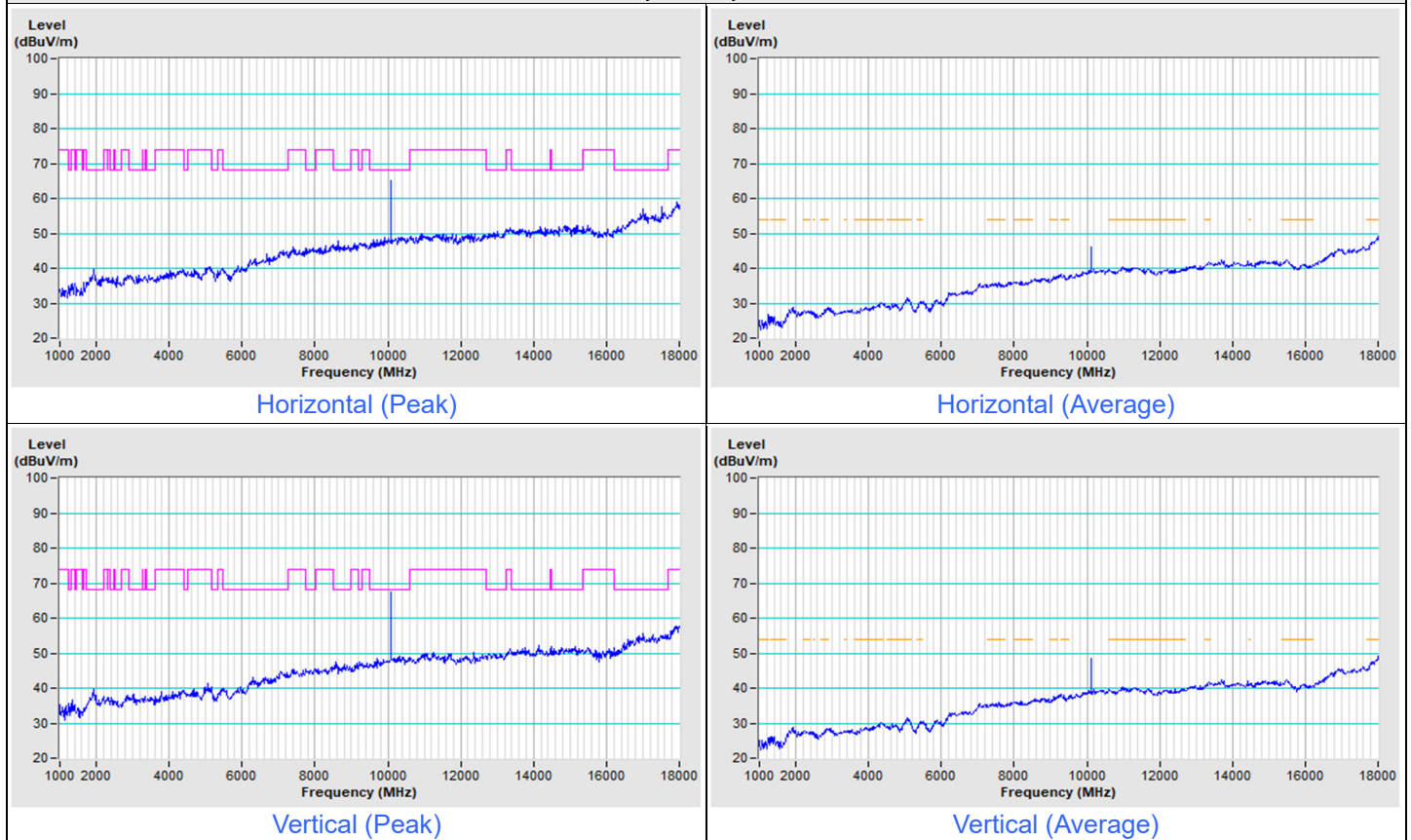


Notes:

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

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT20) Channel 48



Notes:

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