

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBDMW-WTW-P22060516-1
FCC ID: M4Y-AC720M
Model No.: AC-720M
Received Date: 2022/6/20
Test Date: 2022/7/4 ~ 2022/7/22
Issued Date: 2022/8/4

Applicant: Z-COM, INC.
Address: 5F, No.8, HSIN ANN RD., HSINCH SCIENCE PARK, HSINCHU, 300 TAIWAN
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____, **Date:** 2022/8/4
May Chen / Manager

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Prepared by : Vivian Huang / 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	14
3.7 Connection Diagram of EUT and Peripheral Devices	14
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 Frequency Stability	17
4.7 AC Power Conducted Emissions	17
4.8 Unwanted Emissions below 1 GHz	18
4.9 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 Frequency Stability	20
5.7 AC Power Conducted Emissions	21
5.8 Unwanted Emissions below 1 GHz	21
5.9 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	25
6.4.1 Test Setup	25
6.4.2 Test Procedure	25
6.5 Occupied Bandwidth	26
6.5.1 Test Setup	26
6.5.2 Test Procedure	26
6.6 Frequency Stability	26
6.6.1 Test Setup	26
6.6.2 Test Procedure	26
6.7 AC Power Conducted Emissions	27



6.7.1	Test Setup	27
6.7.2	Test Procedure	27
6.8	Unwanted Emissions below 1 GHz	28
6.8.1	Test Setup	28
6.8.2	Test Procedure	29
6.9	Unwanted Emissions above 1 GHz	30
6.9.1	Test Setup	30
6.9.2	Test Procedure	30
7	Test Results of Test Item	31
7.1	26 dB Bandwidth	31
7.2	RF Output Power	34
7.3	Power Spectral Density	38
7.4	6 dB Bandwidth	42
7.5	Occupied Bandwidth	44
7.6	Frequency Stability	49
7.7	AC Power Conducted Emissions	50
7.8	Unwanted Emissions below 1 GHz	52
7.9	Unwanted Emissions above 1 GHz	54
8	Pictures of Test Arrangements	148
9	Information of the Testing Laboratories	149



Release Control Record

Issue No.	Description	Date Issued
RFBDMW-WTW-P22060516-1	Original release.	2022/8/4

1 Certificate

Product: 802.11ac Wireless LAN USB Module

Brand: ZCOM

Test Model: AC-720M

Sample Status: Mass product

Applicant: Z-COM, INC.

Test Date: 2022/7/4 ~ 2022/7/22

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

Measurement ANSI C63.10-2013

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

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)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -14.61 dB at 12.20708 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.6 dB at 937.44 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.1 dB at 5457.20 MHz
15.203	Antenna Requirement	Pass	Antenna connector is U.FL not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	802.11ac Wireless LAN USB Module
Brand	ZCOM
Test Model	AC-720M
Status of EUT	Mass product
Power Supply Rating	5Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5180 ~ 5240 MHz 5260 ~ 5320 MHz 5500 ~ 5720 MHz 5745 ~ 5825 MHz
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	5180 ~ 5240 MHz : 155.955 mW (21.93 dBm) 5260 ~ 5320 MHz : 152.405 mW (21.83 dBm) 5500 ~ 5720 MHz : 182.81 mW (22.62 dBm) 5745 ~ 5825 MHz : 187.932 mW (22.74 dBm)
EUT Category	Client device

Note:

1. WLAN (2.4 GHz) and WLAN (5 GHz) technology cannot transmit at same time.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
ANT1	0	L-COM	HG2458RD-RSP	3	2.4~2.4835GHz	Dipole	U.FL
				3	5.15~5.85GHz		

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

2. The EUT incorporates a SISO function:

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

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

Worst Case:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11ac (VHT20)	157	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ac (VHT20)	157	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
RF Output Power / Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	58, 106, 122, 138	BPSK	MCS0
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	138, 155	BPSK	MCS0



Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
Frequency Stability	802.11a	36	un-modulation	-

3.5 Duty Cycle of Test Signal

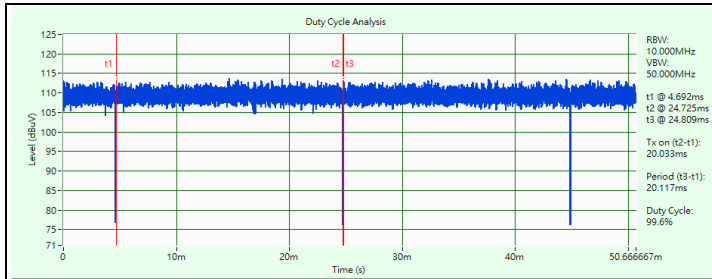
Duty cycle of test signal is $\geq 98\%$, duty factor is not required.
 Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $20.033 \text{ ms} / 20.117 \text{ ms} \times 100\% = 99.6\%$

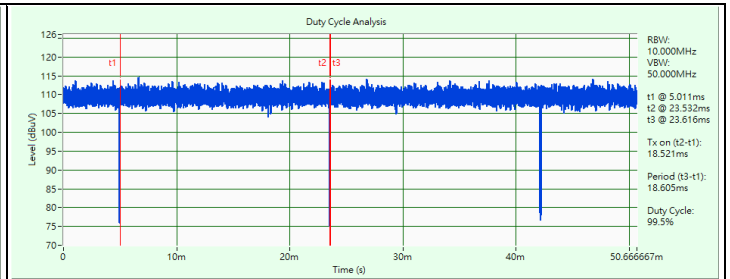
802.11ac (VHT20): Duty cycle = $18.521 \text{ ms} / 18.605 \text{ ms} \times 100\% = 99.5\%$

802.11ac (VHT40): Duty cycle = $8.941 \text{ ms} / 9.027 \text{ ms} \times 100\% = 99.0\%$

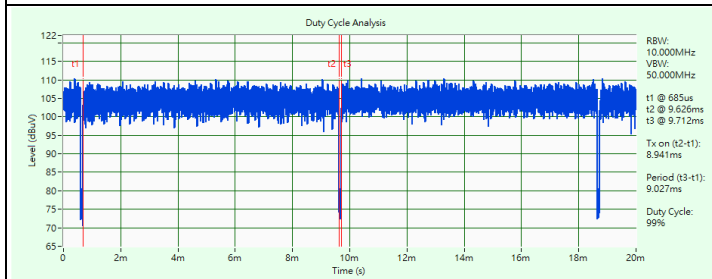
802.11ac (VHT80): Duty cycle = $4.149 \text{ ms} / 4.231 \text{ ms} \times 100\% = 98.1\%$



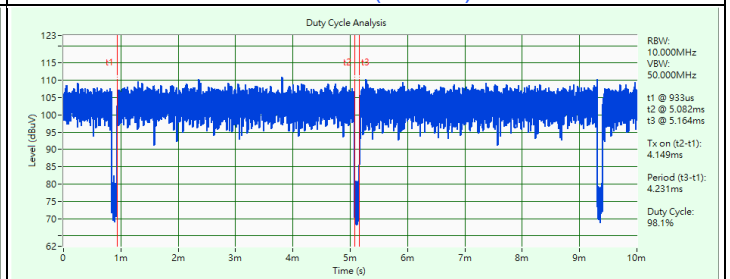
802.11a



802.11ac (VHT20)



802.11ac (VHT40)



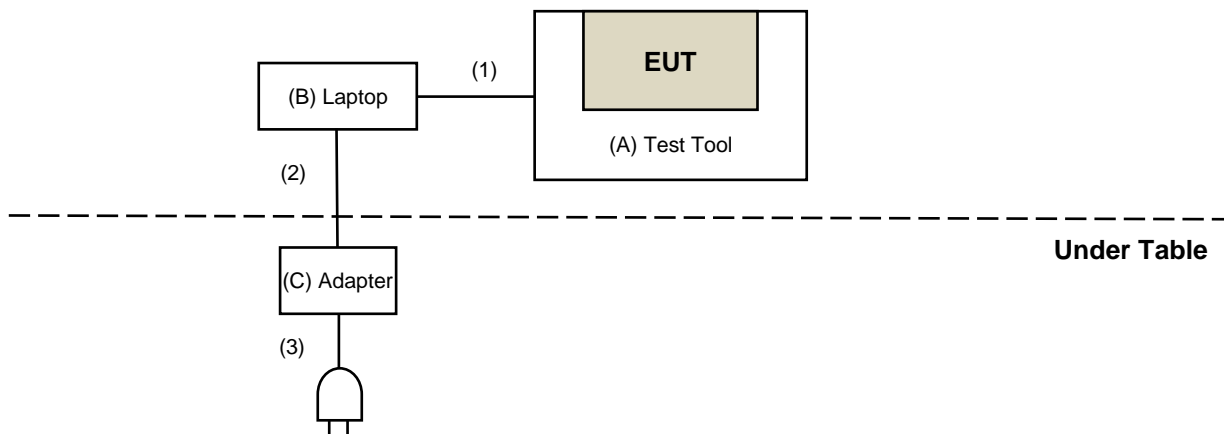
802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

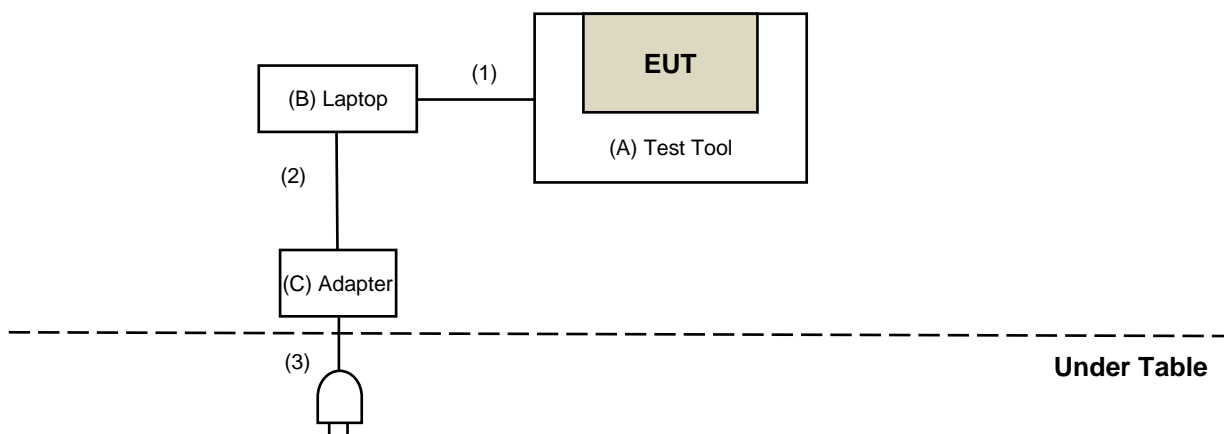
Controlling software (QDART_CONN.WIN.1.0 Installer-00039.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test



For AC Power Conducted Emission test



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	HP	TPN-Q186	5CD8212YYG	DoC	Provided by Lab
B	Adpater	HP	HSTNN-LA40	N/A	N/A	Provided by Lab
C	Test Tool	Z-COM, INC.	N/A	N/A	N/A	Supplied by applicant (for RF Setup)

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Console Cable	1	0.6	Yes	0	Supplied by applicant (for RF Setup)
2	DC Cable	1	1.7	No	0	Provided by Lab
3	AC Power Cable	1	1	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/6

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/6

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/1/14	2023/1/13
DC POWER SUPPLY Topward	6603D	795558	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/6

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohms Terminator	50	3	2021/10/27	2022/10/26
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2021/10/13	2022/10/12

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2022/7/15

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2021/9/23	2022/9/22
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2021/7/6	2022/7/5
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	2021/10/19	2022/10/18
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2022/3/8	2023/3/7
		966-3-2	2022/2/26	2023/2/25
		966-3-3	2022/2/26	2023/2/25
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-361	2021/10/26	2022/10/25

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/7/4

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA9120-D	9120D-406	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC12630SE	980384	2022/1/10	2023/1/9
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable EMCI	EMC104-SM-SM-6000	210201	2022/5/10	2023/5/9
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180504	2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180601	2022/6/6	2023/6/5
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Test Receiver KEYSIGHT	N9038A	MY59050100	2022/6/20	2023/6/19

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/7/9 ~ 2022/7/22

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8 (dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
*1 beyond 75 MHz or more above of the band edge.		*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

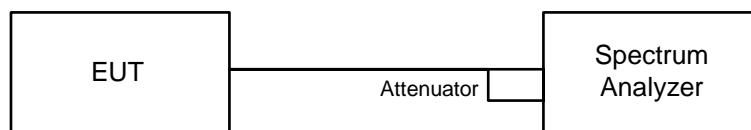
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

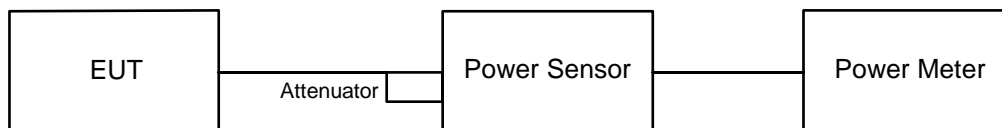


6.1.2 Test Procedure

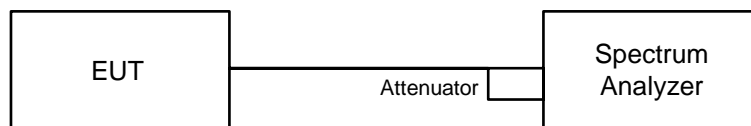
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

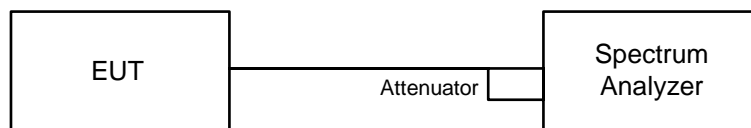
Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- c. 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.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. Record the max value

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

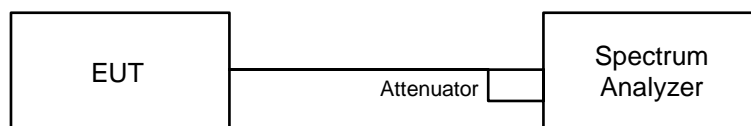
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

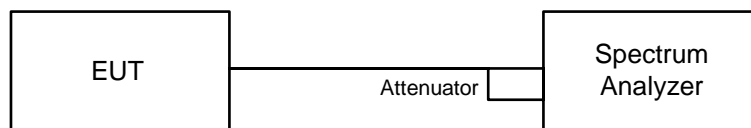


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

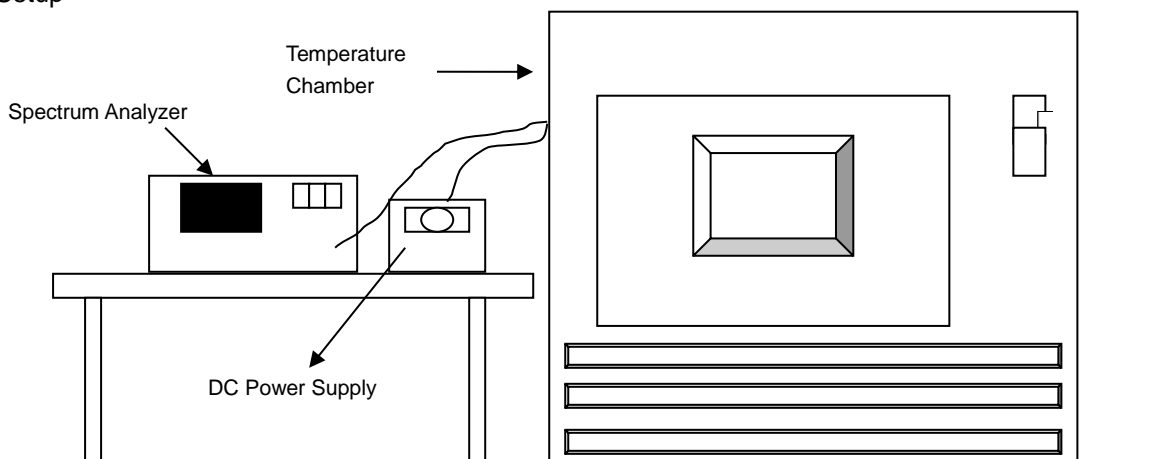


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

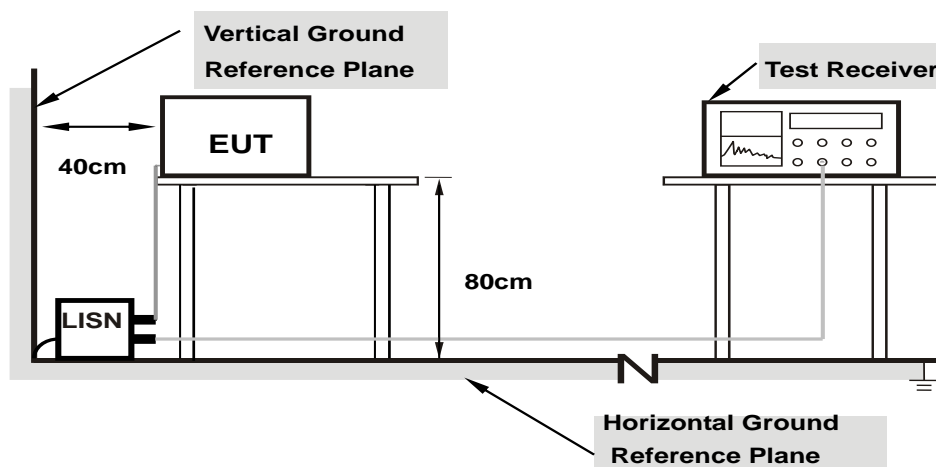


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



Note: 1. Support units were connected to second LISN.

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

6.7.2 Test Procedure

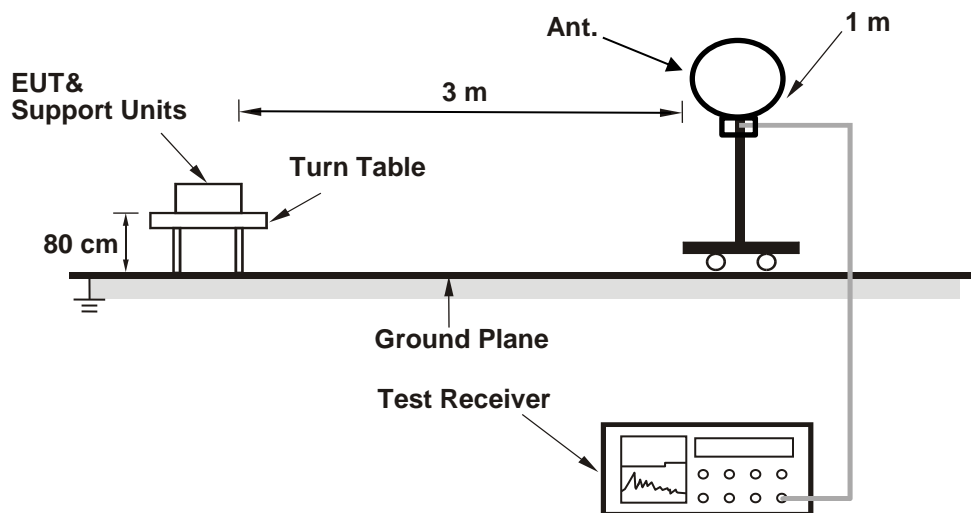
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

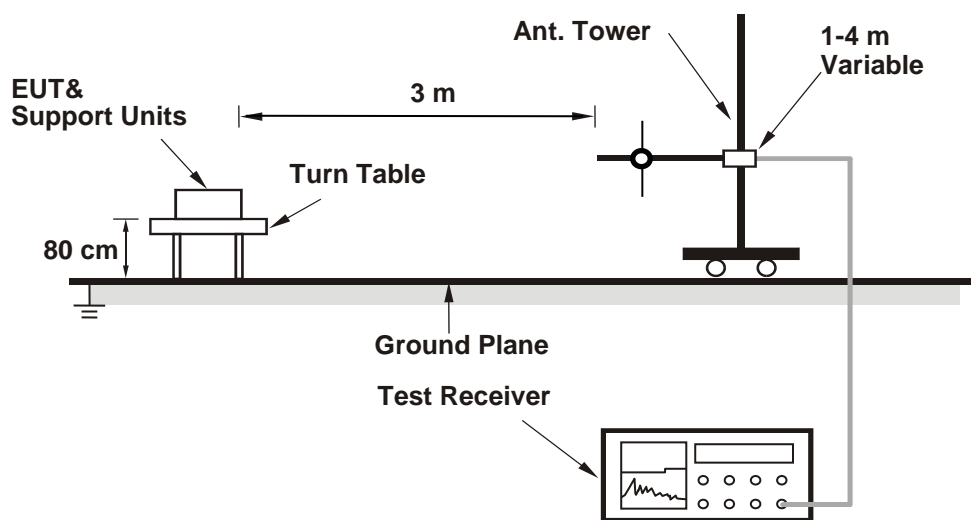
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

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

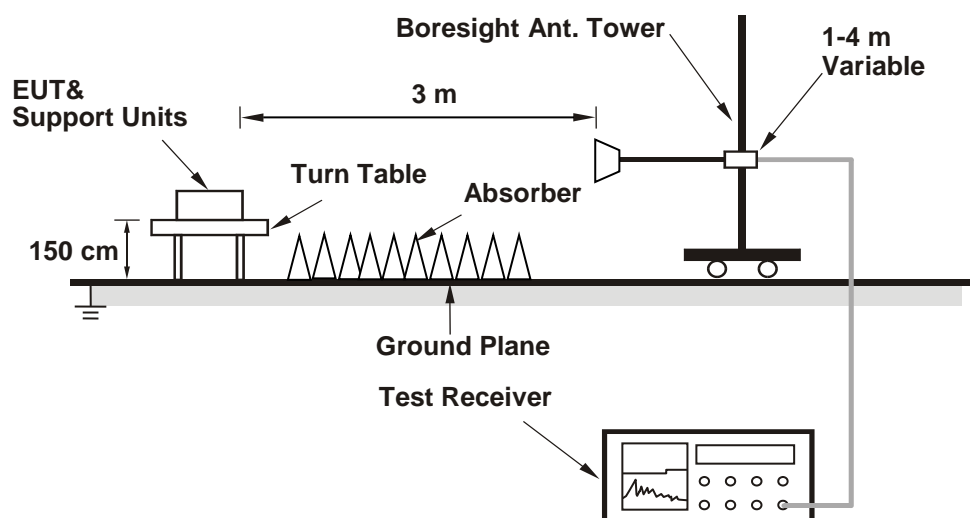
Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup

For Radiated emission above 1 GHz



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

6.9.2 Test Procedure

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

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	19.74
60	5300	21.16
64	5320	19.31
100	5500	19.59
116	5580	23.51
140	5700	19.76
144 (U-NII-2C)	5720	16.81

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	19.74	23.95 < 24
60	5300	21.16	24.25 > 24
64	5320	19.31	23.85 < 24
100	5500	19.59	23.92 < 24
116	5580	23.51	24.71 > 24
140	5700	19.76	23.95 < 24
144 (U-NII-2C)	5720	16.81	23.25 < 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)	26dB Bandwidth (MHz)
52	5260	22.49
60	5300	21.05
64	5320	20.5
100	5500	20.53
116	5580	26.18
140	5700	20.56
144 (U-NII-2C)	5720	18.05

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	22.49	24.51 > 24
60	5300	21.05	24.23 > 24
64	5320	20.50	24.11 > 24
100	5500	20.53	24.12 > 24
116	5580	26.18	25.17 > 24
140	5700	20.56	24.13 > 24
144 (U-NII-2C)	5720	18.05	23.56 < 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)	26dB Bandwidth (MHz)
54	5270	47.68
62	5310	47.31
102	5510	50.15
110	5550	52.22
134	5670	54.9
142 (U-NII-2C)	5710	37.05

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	47.68	27.78 > 24
62	5310	47.31	27.74 > 24
102	5510	50.15	28 > 24
110	5550	52.22	28.17 > 24
134	5670	54.90	28.39 > 24
142 (U-NII-2C)	5710	37.05	26.68 > 24

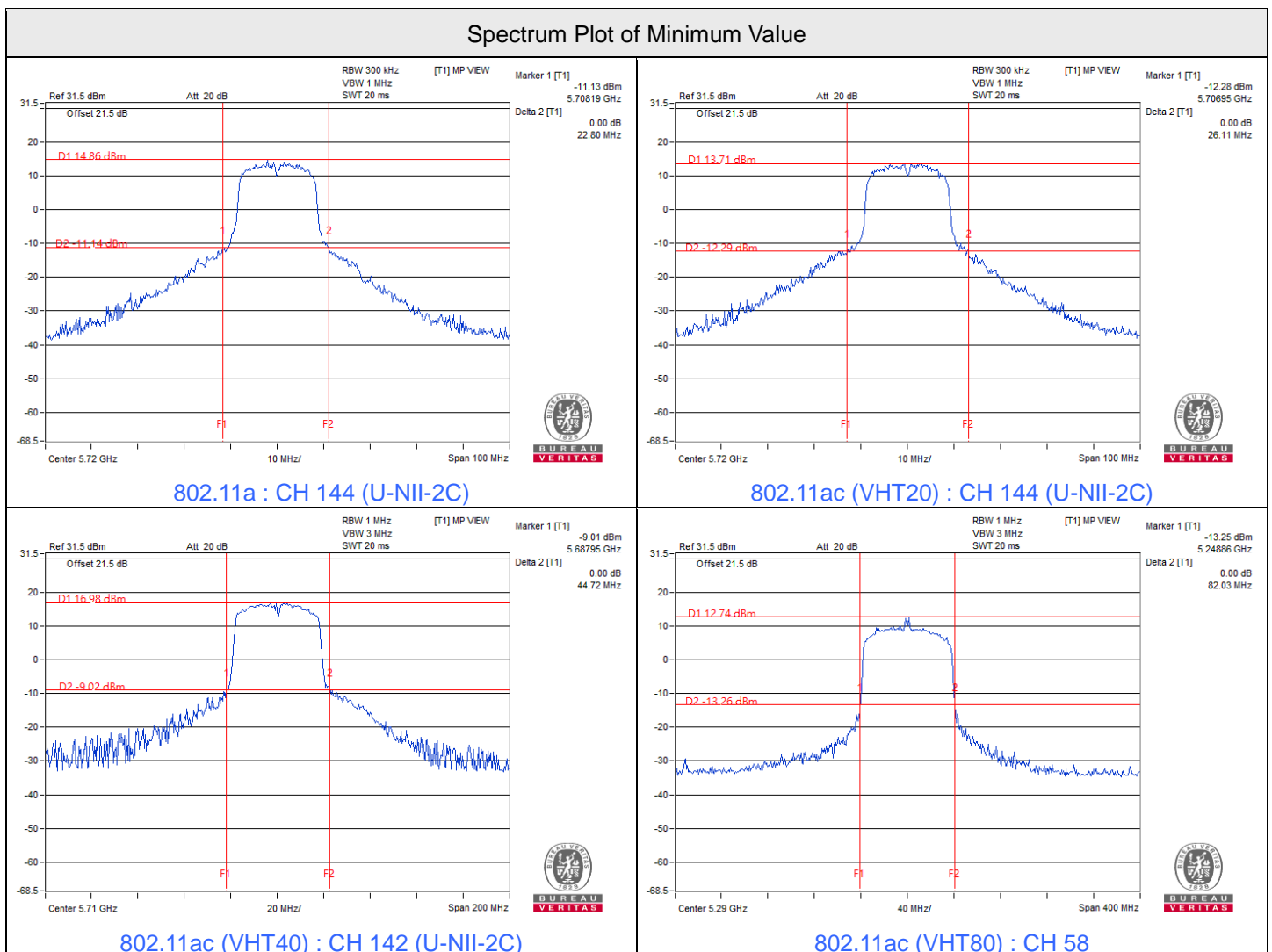
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	82.03
106	5530	84.6
122	5610	87.15
138 (U-NII-2C)	5690	104.98

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.03	30.13 > 24
106	5530	84.60	30.27 > 24
122	5610	87.15	30.4 > 24
138 (U-NII-2C)	5690	104.98	31.21 > 24

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



Notes:

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

7.2 RF Output Power

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	88.105	19.45	24	Pass
40	5200	155.955	21.93	24	Pass
48	5240	150.314	21.77	24	Pass
52	5260	149.279	21.74	23.95	Pass
60	5300	152.405	21.83	24	Pass
64	5320	68.707	18.37	23.85	Pass
100	5500	63.533	18.03	23.92	Pass
116	5580	180.717	22.57	24	Pass
140	5700	92.47	19.66	23.95	Pass
*144 (U-NII-2C)	5720	102.802	20.12	23.25	Pass
*144 (U-NII-3)	5720	19.275	12.85	30	Pass
149	5745	136.144	21.34	30	Pass
157	5785	137.721	21.39	30	Pass
165	5825	134.586	21.29	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.
- For U-NII-1, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	77.09	18.87	24	Pass
40	5200	142.233	21.53	24	Pass
48	5240	139.316	21.44	24	Pass
52	5260	140.929	21.49	24	Pass
60	5300	143.219	21.56	24	Pass
64	5320	67.143	18.27	24	Pass
100	5500	61.094	17.86	24	Pass
116	5580	179.473	22.54	24	Pass
140	5700	87.498	19.42	24	Pass
*144 (U-NII-2C)	5720	98.175	19.92	23.56	Pass
*144 (U-NII-3)	5720	19.498	12.90	30	Pass
149	5745	146.893	21.67	30	Pass
157	5785	187.932	22.74	30	Pass
165	5825	145.211	21.62	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.
- For U-NII-1, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	52.24	17.18	24	Pass
46	5230	150.314	21.77	24	Pass
54	5270	147.231	21.68	24	Pass
62	5310	42.954	16.33	24	Pass
102	5510	69.663	18.43	24	Pass
110	5550	182.81	22.62	24	Pass
134	5670	92.683	19.67	24	Pass
*142 (U-NII-2C)	5710	120.226	20.80	24	Pass
*142 (U-NII-3)	5710	5.2	7.16	30	Pass
151	5755	176.198	22.46	30	Pass
159	5795	152.757	21.84	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.
- For U-NII-1, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	22.751	13.57	24	Pass
58	5290	48.417	16.85	24	Pass
106	5530	52.602	17.21	24	Pass
122	5610	161.065	22.07	24	Pass
*138 (U-NII-2C)	5690	155.955	21.93	24	Pass
*138 (U-NII-3)	5690	1.538	1.87	30	Pass
155	5775	56.754	17.54	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.
- For U-NII-1, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

For channel straddling 5725MHz of Power



7.3 Power Spectral Density

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	9.43	11.00	Pass
40	5200	10.69	11.00	Pass
48	5240	10.70	11.00	Pass
52	5260	10.45	11.00	Pass
60	5300	10.60	11.00	Pass
64	5320	6.93	11.00	Pass
100	5500	6.96	11.00	Pass
116	5580	10.70	11.00	Pass
140	5700	6.91	11.00	Pass
144 (U-NII-2C)	5720	10.17	11.00	Pass

Notes:

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

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	7.79	11.00	Pass
40	5200	10.64	11.00	Pass
48	5240	10.11	11.00	Pass
52	5260	9.97	11.00	Pass
60	5300	10.07	11.00	Pass
64	5320	7.31	11.00	Pass
100	5500	6.40	11.00	Pass
116	5580	10.81	11.00	Pass
140	5700	6.36	11.00	Pass
144 (U-NII-2C)	5720	9.75	11.00	Pass

Notes:

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

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	3.06	11.00	Pass
46	5230	7.16	11.00	Pass
54	5270	6.75	11.00	Pass
62	5310	3.37	11.00	Pass
102	5510	4.54	11.00	Pass
110	5550	8.14	11.00	Pass
134	5670	4.74	11.00	Pass
142 (U-NII-2C)	5710	7.02	11.00	Pass

Notes:

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

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-4.37	11.00	Pass
58	5290	-0.49	11.00	Pass
106	5530	-0.96	11.00	Pass
122	5610	4.42	11.00	Pass
138 (U-NII-2C)	5690	3.17	11.00	Pass

Notes:

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	0.42	2.64	30	Pass
149	5745	1.93	4.15	30	Pass
157	5785	1.76	3.98	30	Pass
165	5825	0.62	2.84	30	Pass

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

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	0.42	2.64	30	Pass
149	5745	1.27	3.49	30	Pass
157	5785	1.23	3.45	30	Pass
165	5825	0.52	2.74	30	Pass

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

802.11ac (VHT40)

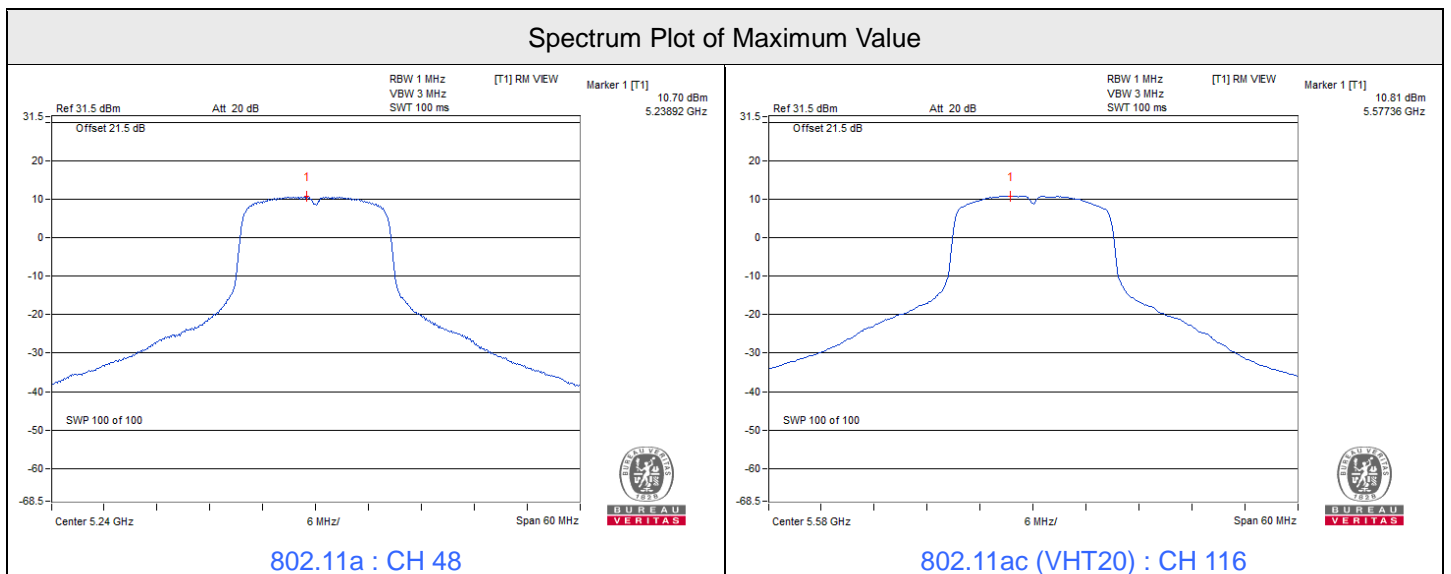
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
142 (U-NII-3)	5710	-5.04	-2.82	30	Pass
151	5755	-2.6	-0.38	30	Pass
159	5795	-2.55	-0.33	30	Pass

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

802.11ac (VHT80)

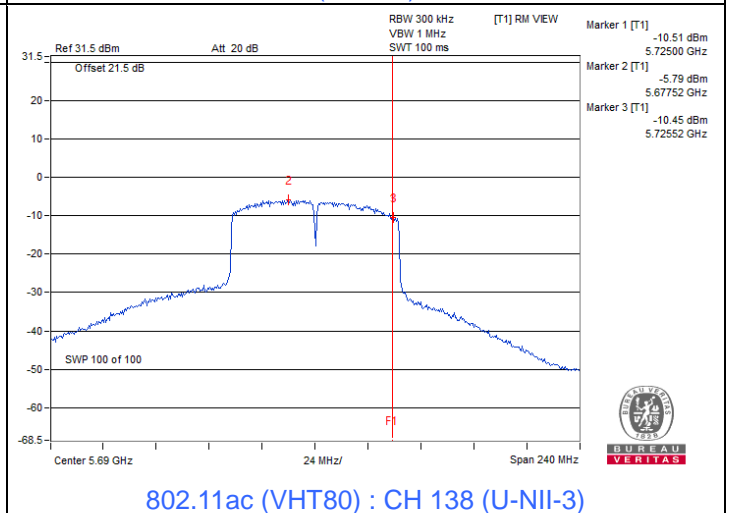
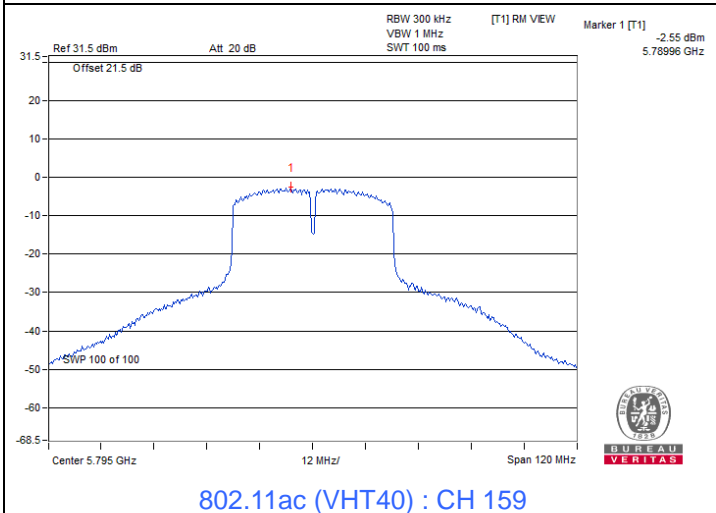
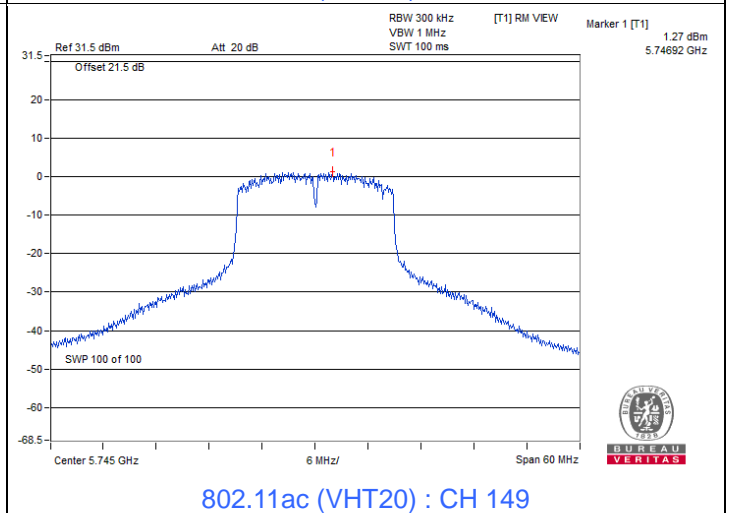
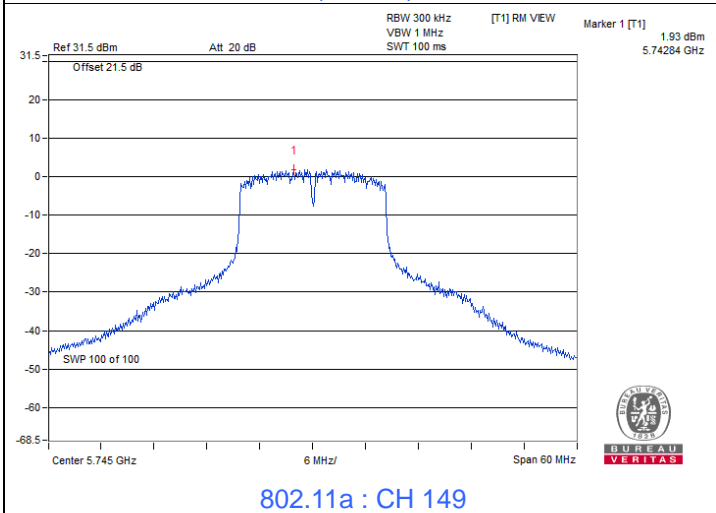
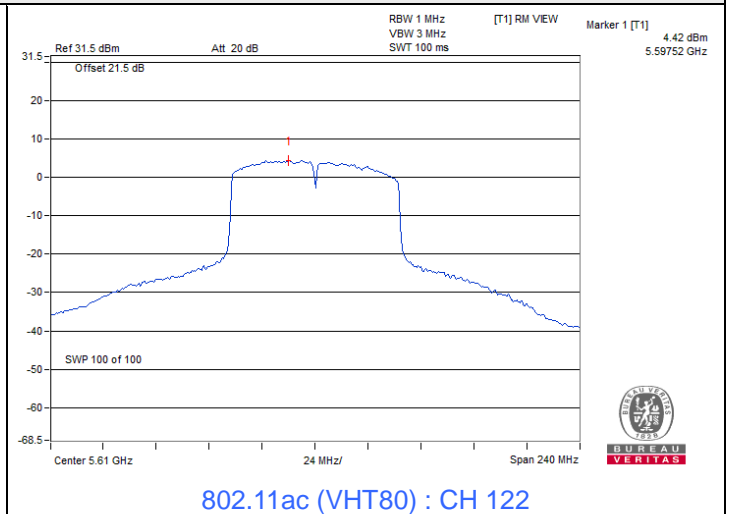
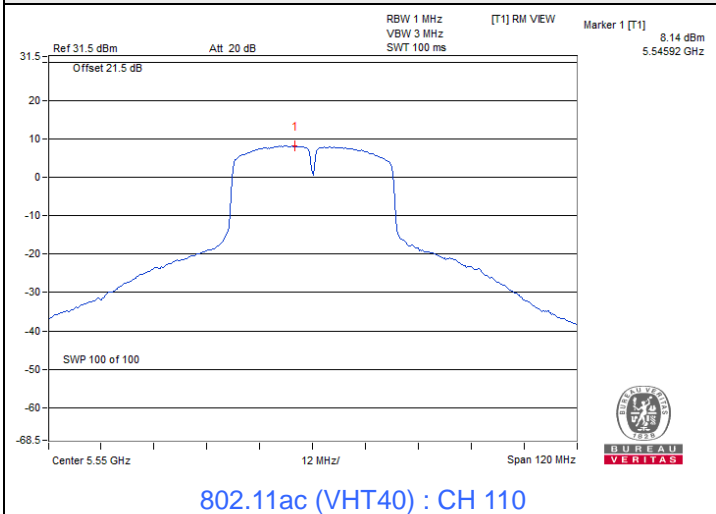
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
138 (U-NII-3)	5690	-10.45	-8.23	30	Pass
155	5775	-10.53	-8.31	30	Pass

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





Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.58	0.5	Pass
149	5745	15.4	0.5	Pass
157	5785	15.39	0.5	Pass
165	5825	15.19	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.57	0.5	Pass
149	5745	15.2	0.5	Pass
157	5785	15.18	0.5	Pass
165	5825	15.2	0.5	Pass

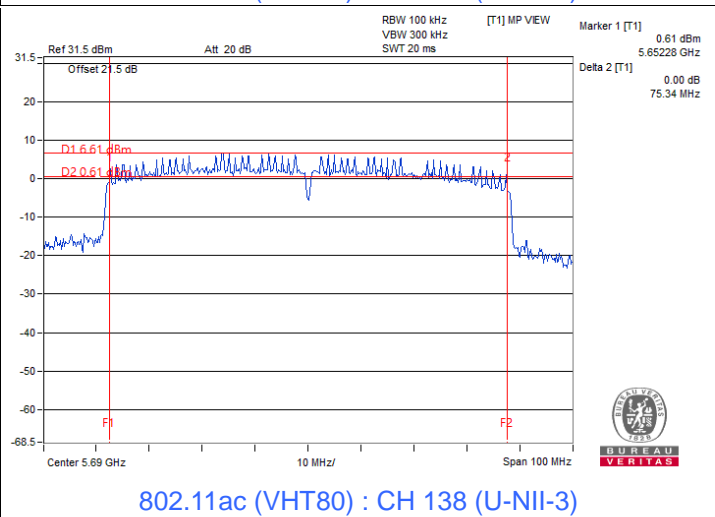
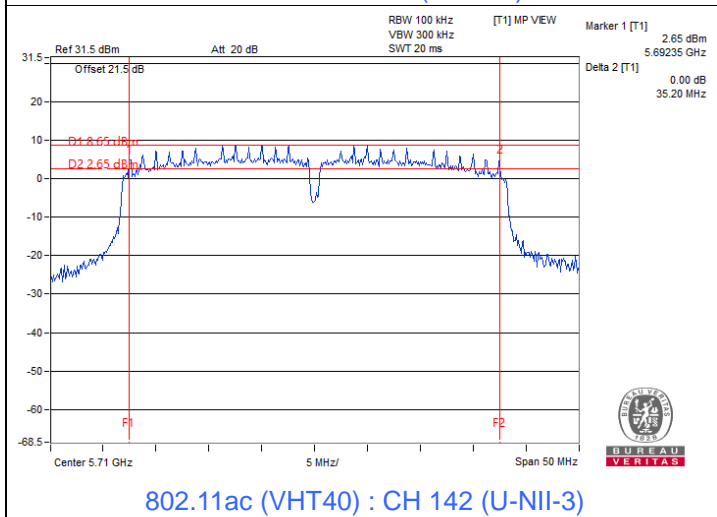
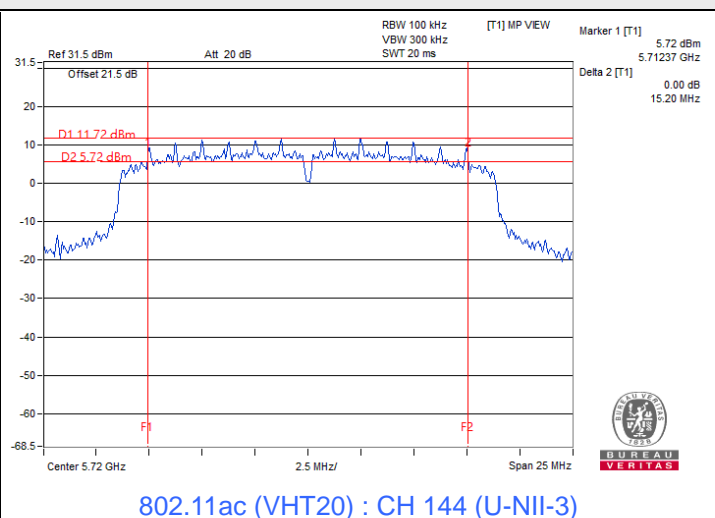
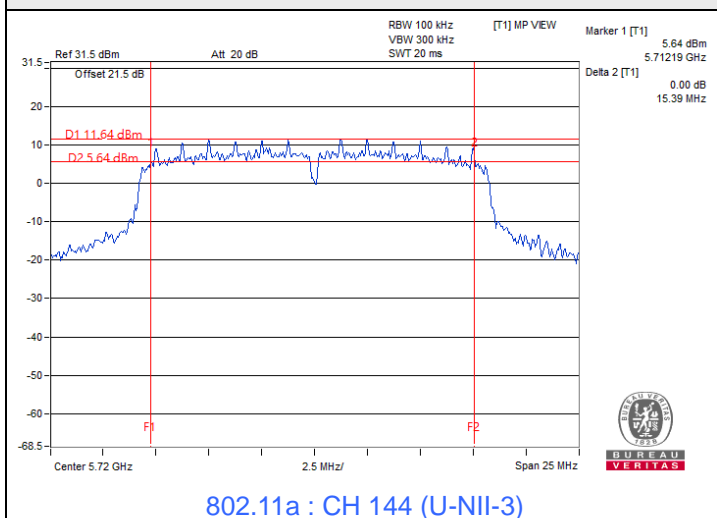
802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
142 (U-NII-3)	5710	2.55	0.5	Pass
151	5755	35.21	0.5	Pass
159	5795	35.26	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
138 (U-NII-3)	5690	2.62	0.5	Pass
155	5775	75.37	0.5	Pass

Spectrum Plot of Minimum Value



Notes:

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

7.5 Occupied Bandwidth

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.44
40	5200	16.44
48	5240	16.44
52	5260	16.44
60	5300	16.44
64	5320	16.32
100	5500	16.32
116	5580	16.68
140	5700	16.32
144 (U-NII-2C)	5720	13.28
144 (U-NII-3)	5720	3.16
149	5745	16.44
157	5785	23.76
165	5825	16.68

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.4
40	5200	17.4
48	5240	17.52
52	5260	17.64
60	5300	17.4
64	5320	17.4
100	5500	17.4
116	5580	17.64
140	5700	17.4
144 (U-NII-2C)	5720	13.88
144 (U-NII-3)	5720	3.76
149	5745	17.64
157	5785	17.64
165	5825	17.64

802.11ac (VHT40)

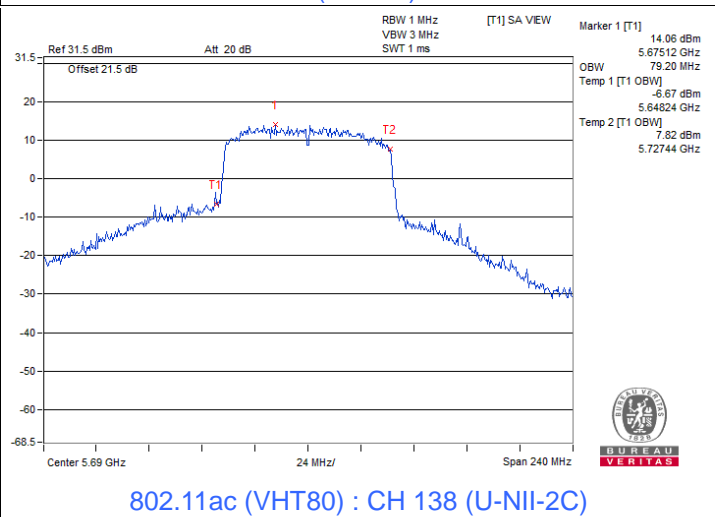
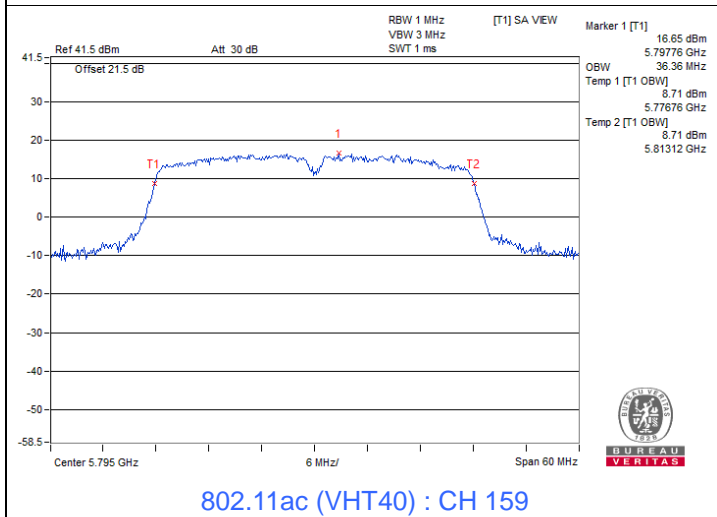
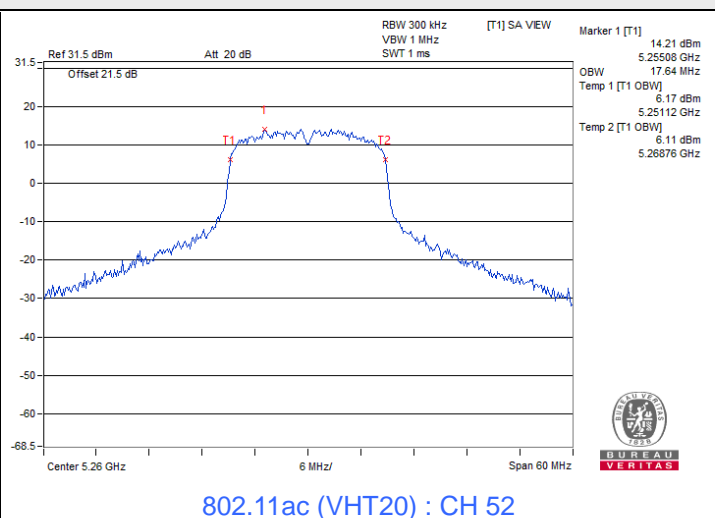
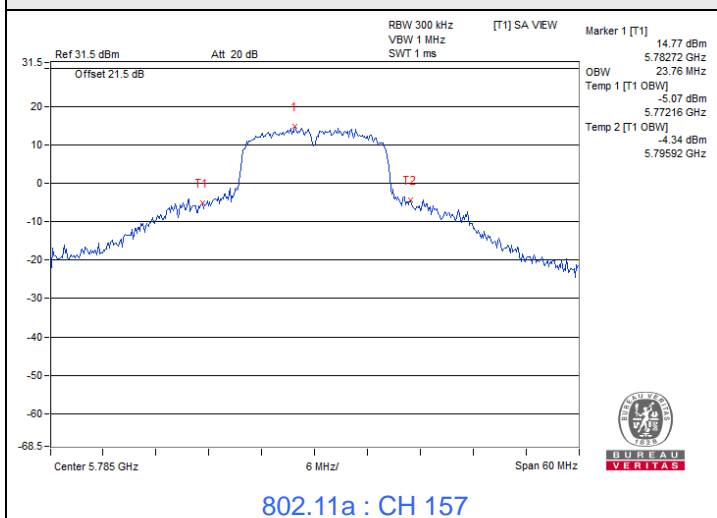
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36
46	5230	36.24
54	5270	36.12
62	5310	36.12
102	5510	36
110	5550	36.24
134	5670	36.24
142 (U-NII-2C)	5710	33.24
142 (U-NII-3)	5710	3
151	5755	36.24
159	5795	36.36

802.11ac (VHT80)

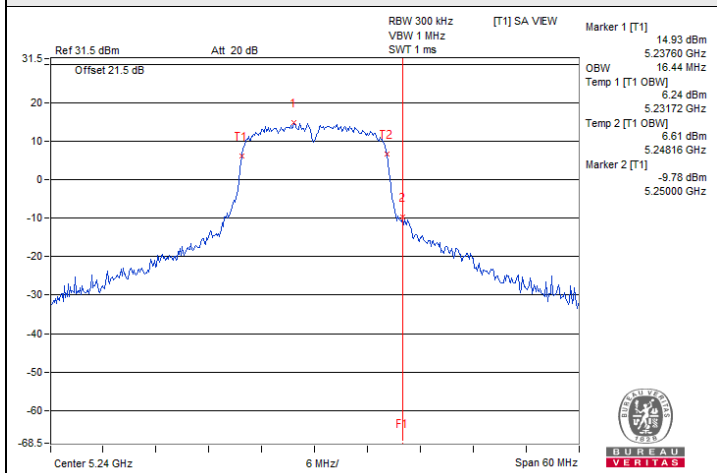
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	74.88
58	5290	74.88
106	5530	74.88
122	5610	75.36
138 (U-NII-2C)	5690	76.76
138 (U-NII-3)	5690	2.44
155	5775	75.36



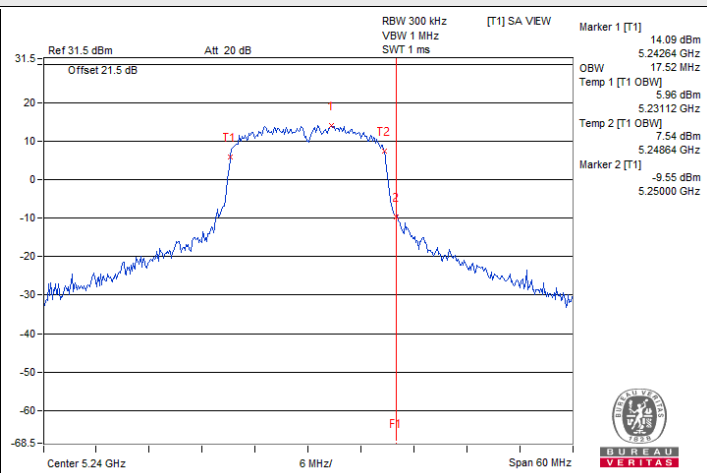
Spectrum Plot of Maximum Value



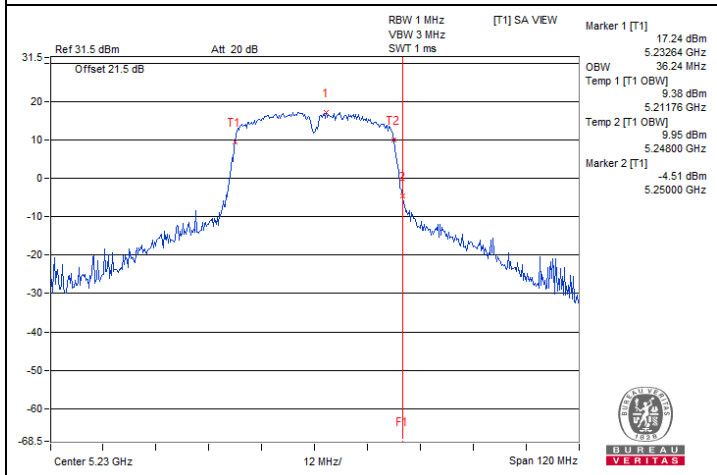
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



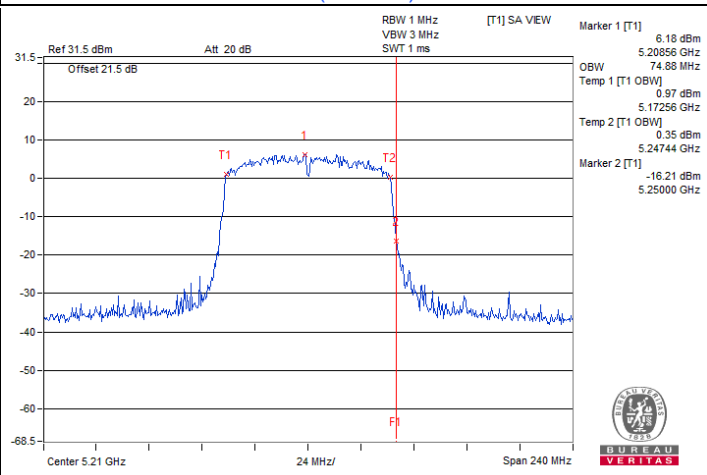
802.11a : CH 48



802.11a (VHT20) : CH 48

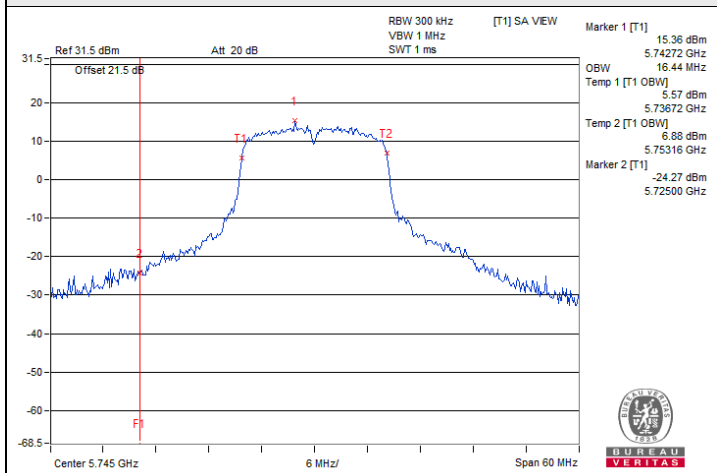


802.11ac (VHT40) : CH 46

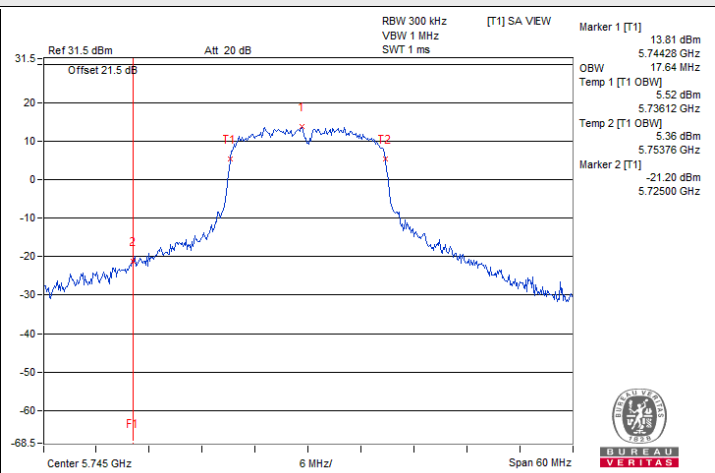


802.11ac (VHT80) : CH 42

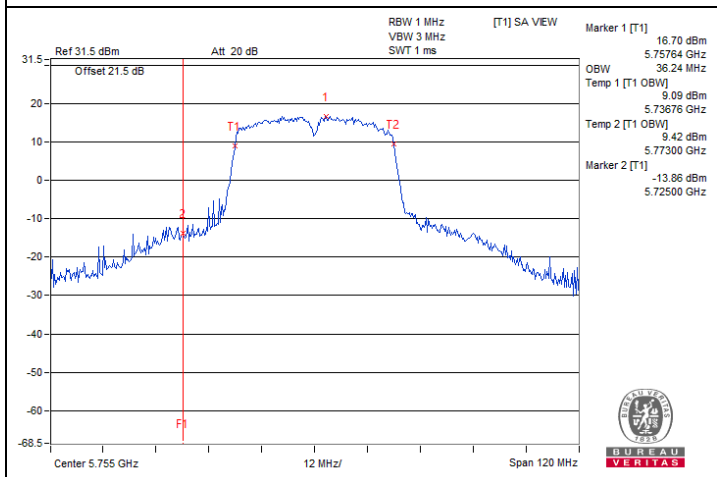
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)



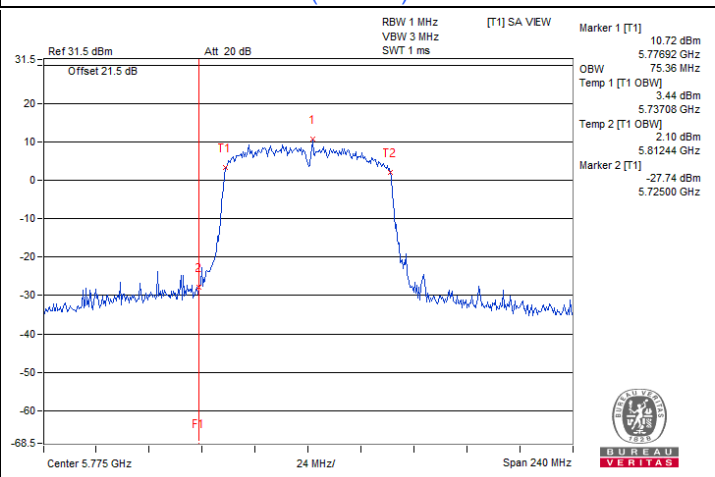
802.11a : CH 149



802.11ac (VHT20) : CH 149



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.6 Frequency Stability

Input Power:	5 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
75	5	5180.0221	Pass	5180.021	Pass	5180.023	Pass	5180.0221	Pass
70	5	5180.0084	Pass	5180.0043	Pass	5180.0039	Pass	5180.0039	Pass
60	5	5180.0141	Pass	5180.0117	Pass	5180.0139	Pass	5180.0152	Pass
50	5	5180.0254	Pass	5180.0272	Pass	5180.0258	Pass	5180.0269	Pass
40	5	5179.9934	Pass	5179.9932	Pass	5179.9926	Pass	5179.9944	Pass
30	5	5179.9912	Pass	5179.9882	Pass	5179.992	Pass	5179.9874	Pass
20	5	5180.0211	Pass	5180.0214	Pass	5180.0229	Pass	5180.025	Pass
10	5	5179.9848	Pass	5179.9858	Pass	5179.9852	Pass	5179.983	Pass
0	5	5179.9936	Pass	5179.9904	Pass	5179.9924	Pass	5179.9918	Pass
-10	5	5179.9938	Pass	5179.9947	Pass	5179.9947	Pass	5179.9946	Pass
-20	5	5179.9914	Pass	5179.9907	Pass	5179.9914	Pass	5179.9892	Pass
-30	5	5180.0269	Pass	5180.0233	Pass	5180.0237	Pass	5180.0239	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	5	5180.0166	Pass	5180.0129	Pass	5180.0174	Pass	5180.0158	Pass
	5	5180.0211	Pass	5180.0214	Pass	5180.0229	Pass	5180.025	Pass
	5	5180.0137	Pass	5180.0158	Pass	5180.0134	Pass	5180.0139	Pass

7.7 AC Power Conducted Emissions

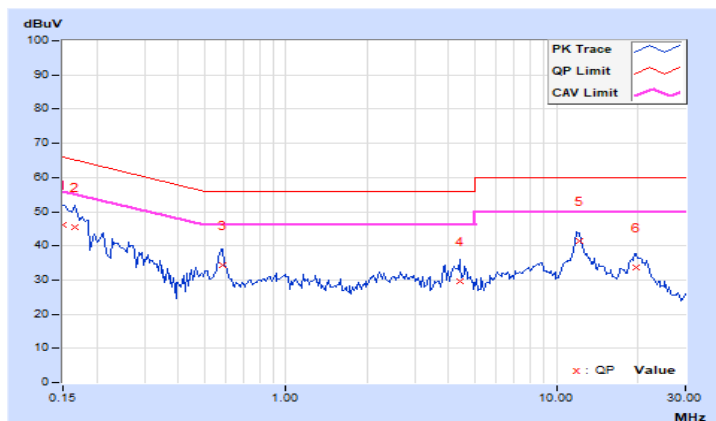
RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.15006	10.05	36.21	16.53	46.26	26.58	66.00	56.00	-19.74	-29.42
2	0.16551	10.05	35.32	17.89	45.37	27.94	65.18	55.18	-19.81	-27.24
3	0.58763	10.08	24.23	17.59	34.31	27.67	56.00	46.00	-21.69	-18.33
4	4.38289	10.28	19.39	13.66	29.67	23.94	56.00	46.00	-26.33	-22.06
5	12.20708	10.75	30.51	24.64	41.26	35.39	60.00	50.00	-18.74	-14.61
6	19.84384	11.21	22.38	17.17	33.59	28.38	60.00	50.00	-26.41	-21.62

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

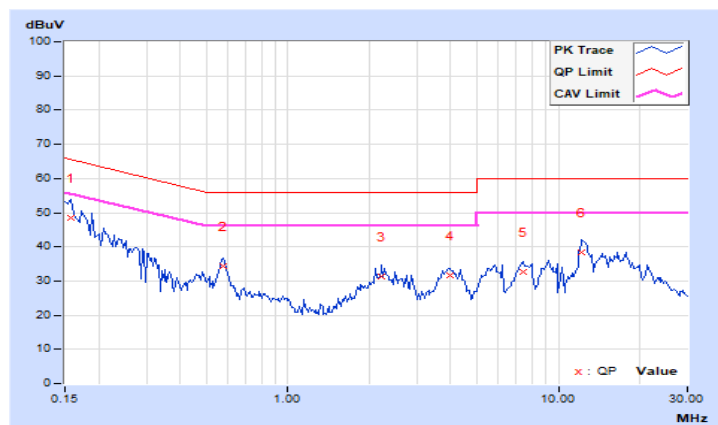


RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.15796	10.02	38.32	22.19	48.34	32.21	65.57	55.57	-17.23	-23.36
2	0.57583	10.05	24.17	18.19	34.22	28.24	56.00	46.00	-21.78	-17.76
3	2.21082	10.14	21.16	14.29	31.30	24.43	56.00	46.00	-24.70	-21.57
4	3.96099	10.21	21.46	14.97	31.67	25.18	56.00	46.00	-24.33	-20.82
5	7.38287	10.37	22.36	17.92	32.73	28.29	60.00	50.00	-27.27	-21.71
6	12.20706	10.59	27.83	22.12	38.42	32.71	60.00	50.00	-21.58	-17.29

Remarks:

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



7.8 Unwanted Emissions below 1 GHz

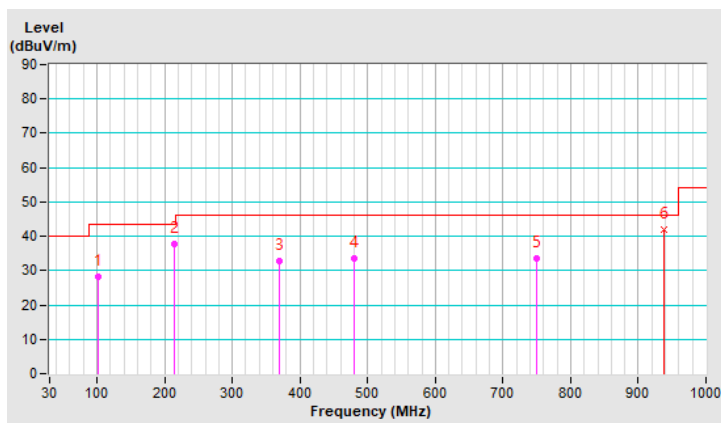
RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	25°C, 65% RH
Tested By	Carter Lin		

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	101.35	28.3 QP	43.5	-15.2	2.00 H	2	40.6	-12.3
2	214.73	37.6 QP	43.5	-5.9	1.00 H	273	48.7	-11.1
3	368.82	32.7 QP	46.0	-13.3	1.00 H	130	38.7	-6.0
4	479.23	33.7 QP	46.0	-12.3	2.00 H	81	37.0	-3.3
5	749.83	33.5 QP	46.0	-12.5	1.00 H	297	31.1	2.4
6	937.37	42.0 QP	46.0	-4.0	2.50 H	276	36.7	5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

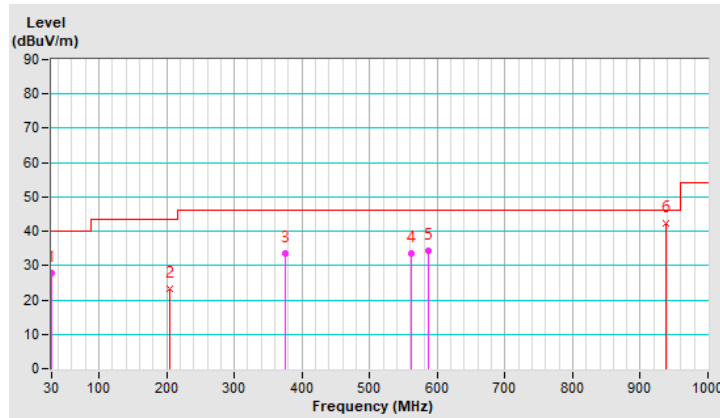


RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	25°C, 65% RH
Tested By	Carter Lin		

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	30.89	27.8 QP	40.0	-12.2	1.00 V	234	37.3	-9.5
2	203.82	23.2 QP	43.5	-20.3	2.00 V	1	34.4	-11.2
3	374.86	33.7 QP	46.0	-12.3	1.00 V	318	39.6	-5.9
4	562.31	33.5 QP	46.0	-12.5	1.00 V	26	35.2	-1.7
5	586.38	34.3 QP	46.0	-11.7	2.00 V	336	35.1	-0.8
6	937.44	42.4 QP	46.0	-3.6	1.50 V	314	37.1	5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



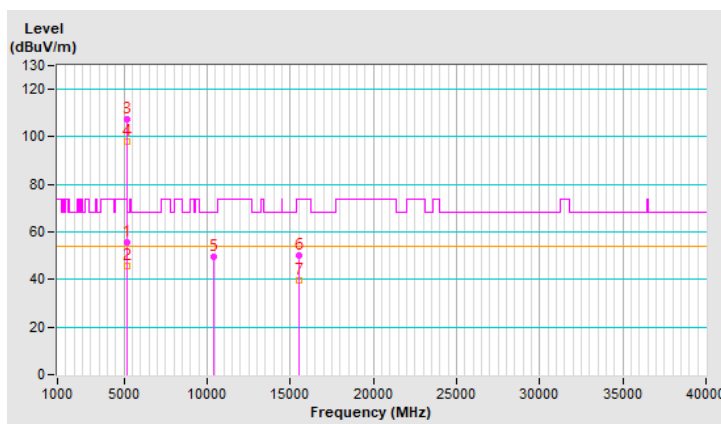
7.9 Unwanted Emissions above 1 GHz

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	55.6 PK	74.0	-18.4	1.11 H	296	50.8	4.8
2	5150.00	45.8 AV	54.0	-8.2	1.11 H	296	41.0	4.8
3	*5180.00	107.6 PK			1.11 H	296	102.9	4.7
4	*5180.00	98.0 AV			1.11 H	296	93.3	4.7
5	#10360.00	49.4 PK	68.2	-18.8	1.94 H	117	35.2	14.2
6	15540.00	50.1 PK	74.0	-23.9	1.65 H	254	35.7	14.4
7	15540.00	39.6 AV	54.0	-14.4	1.65 H	254	25.2	14.4

Remarks:

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

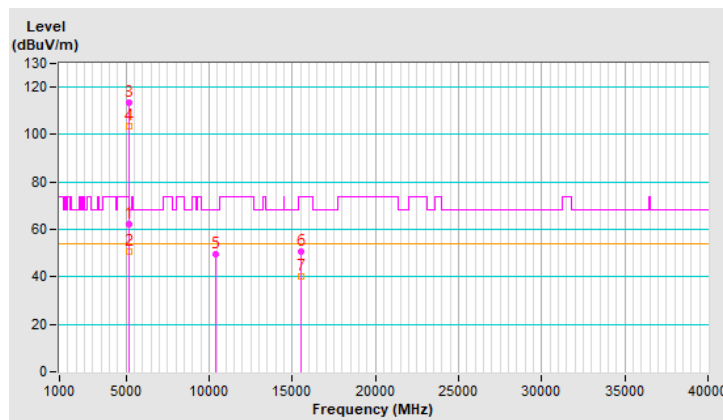


RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	2.90 V	250	57.3	4.8
2	5150.00	50.8 AV	54.0	-3.2	2.90 V	250	46.0	4.8
3	*5180.00	113.7 PK			2.90 V	250	109.0	4.7
4	*5180.00	103.7 AV			2.90 V	250	99.0	4.7
5	#10360.00	49.5 PK	68.2	-18.7	2.36 V	177	35.3	14.2
6	15540.00	50.6 PK	74.0	-23.4	1.64 V	214	36.2	14.4
7	15540.00	40.3 AV	54.0	-13.7	1.64 V	214	25.9	14.4

Remarks:

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

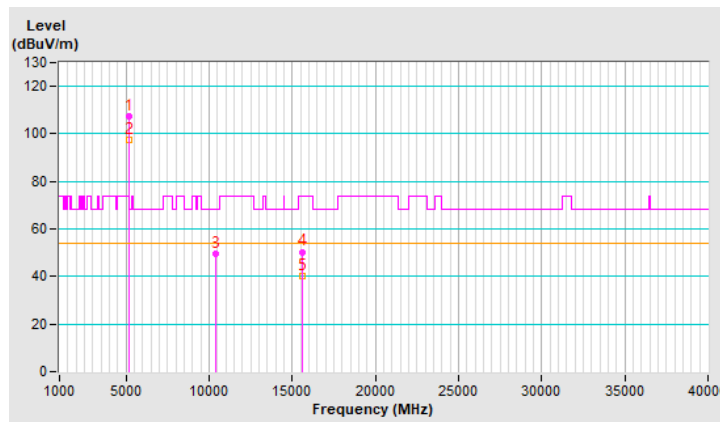


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	107.2 PK			1.12 H	300	102.6	4.6
2	*5200.00	97.6 AV			1.12 H	300	93.0	4.6
3	#10400.00	49.4 PK	68.2	-18.8	1.88 H	126	35.2	14.2
4	15600.00	50.4 PK	74.0	-23.6	1.65 H	261	35.6	14.8
5	15600.00	40.3 AV	54.0	-13.7	1.65 H	261	25.5	14.8

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.

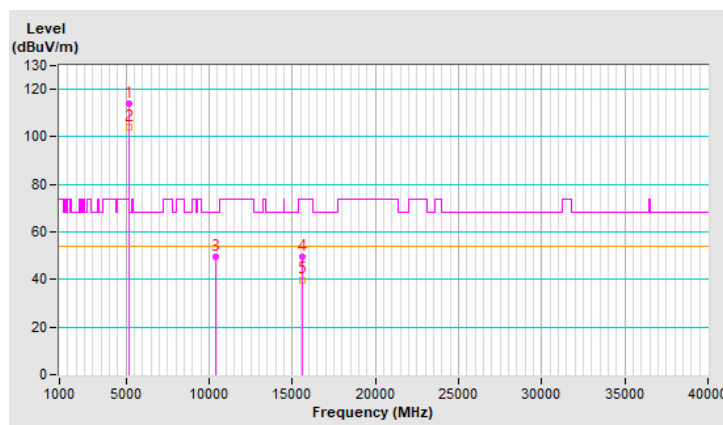


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	113.8 PK			2.38 V	39	109.2	4.6
2	*5200.00	104.0 AV			2.38 V	39	99.4	4.6
3	#10400.00	49.8 PK	68.2	-18.4	2.36 V	160	35.6	14.2
4	15600.00	49.7 PK	74.0	-24.3	1.70 V	236	34.9	14.8
5	15600.00	39.9 AV	54.0	-14.1	1.70 V	236	25.1	14.8

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.

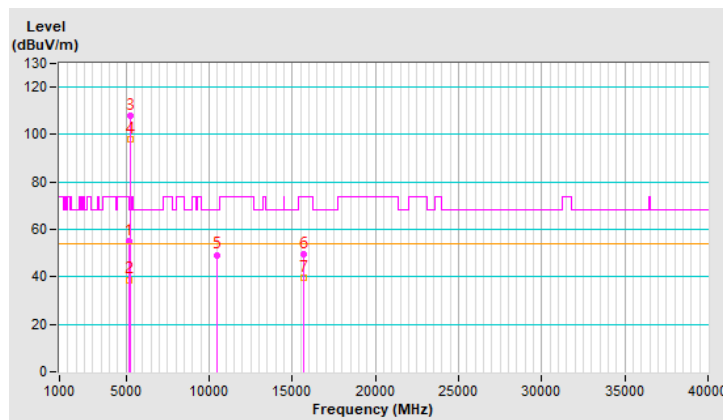


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	55.0 PK	74.0	-19.0	1.07 H	287	50.2	4.8
2	5150.00	38.8 AV	54.0	-15.2	1.07 H	287	34.0	4.8
3	*5240.00	107.9 PK			1.07 H	287	103.5	4.4
4	*5240.00	98.0 AV			1.07 H	287	93.6	4.4
5	#10480.00	49.3 PK	68.2	-18.9	1.84 H	129	34.9	14.4
6	15720.00	49.6 PK	74.0	-24.4	1.65 H	251	36.1	13.5
7	15720.00	39.5 AV	54.0	-14.5	1.65 H	251	26.0	13.5

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.

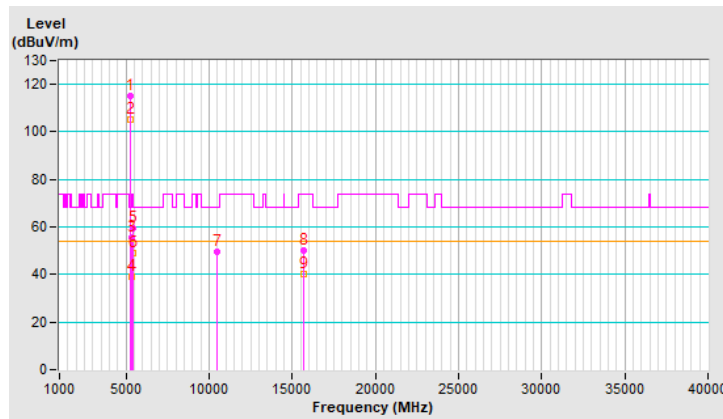


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	115.3 PK			3.15 V	12	110.9	4.4
2	*5240.00	105.4 AV			3.15 V	12	101.0	4.4
3	5350.00	55.6 PK	74.0	-18.4	3.15 V	12	51.0	4.6
4	5350.00	39.3 AV	54.0	-14.7	3.15 V	12	34.7	4.6
5	5429.42	59.4 PK	74.0	-14.6	2.77 V	251	54.7	4.7
6	5429.42	48.8 AV	54.0	-5.2	2.77 V	251	44.1	4.7
7	#10480.00	49.4 PK	68.2	-18.8	2.43 V	161	35.0	14.4
8	15720.00	50.0 PK	74.0	-24.0	1.66 V	229	36.5	13.5
9	15720.00	40.0 AV	54.0	-14.0	1.66 V	229	26.5	13.5

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.

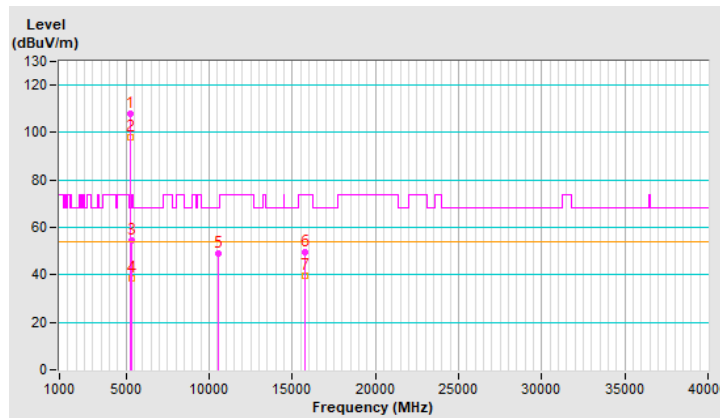


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	*5260.00	107.9 PK			1.07 H	302	103.5	4.4
2	*5260.00	97.8 AV			1.07 H	302	93.4	4.4
3	5350.00	54.6 PK	74.0	-19.4	1.07 H	302	50.0	4.6
4	5350.00	38.5 AV	54.0	-15.5	1.07 H	302	33.9	4.6
5	#10520.00	49.0 PK	68.2	-19.2	1.93 H	147	34.6	14.4
6	15780.00	49.8 PK	74.0	-24.2	1.59 H	254	36.2	13.6
7	15780.00	39.8 AV	54.0	-14.2	1.59 H	254	26.2	13.6

Remarks:

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

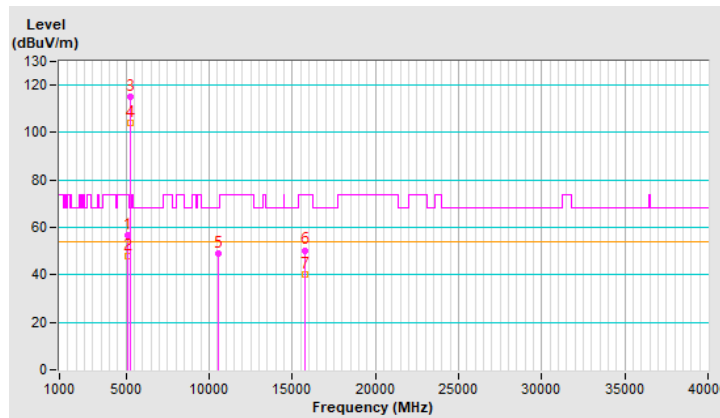


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5069.73	56.6 PK	74.0	-17.4	2.16 V	291	52.2	4.4
2	5069.73	47.8 AV	54.0	-6.2	2.16 V	291	43.4	4.4
3	*5260.00	114.9 PK			2.16 V	291	110.5	4.4
4	*5260.00	104.1 AV			2.16 V	291	99.7	4.4
5	#10520.00	48.9 PK	68.2	-19.3	2.43 V	154	34.5	14.4
6	15780.00	50.4 PK	74.0	-23.6	1.70 V	240	36.8	13.6
7	15780.00	40.3 AV	54.0	-13.7	1.70 V	240	26.7	13.6

Remarks:

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

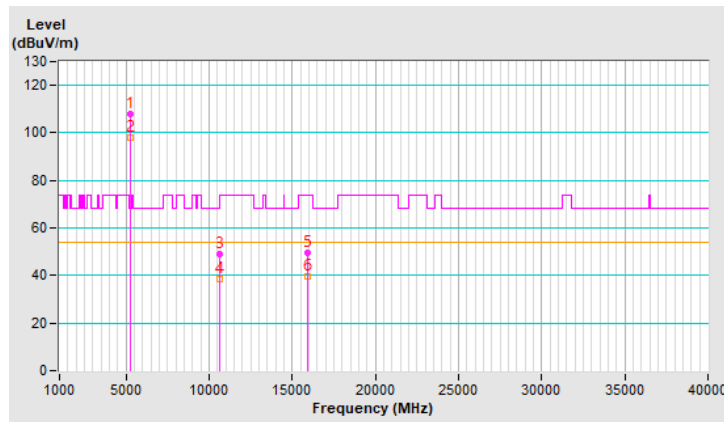


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.1 PK			1.06 H	316	103.8	4.3
2	*5300.00	98.2 AV			1.06 H	316	93.9	4.3
3	10600.00	48.9 PK	74.0	-25.1	1.94 H	145	34.7	14.2
4	10600.00	38.6 AV	54.0	-15.4	1.94 H	145	24.4	14.2
5	15900.00	49.4 PK	74.0	-24.6	1.65 H	243	35.6	13.8
6	15900.00	39.4 AV	54.0	-14.6	1.65 H	243	25.6	13.8

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.

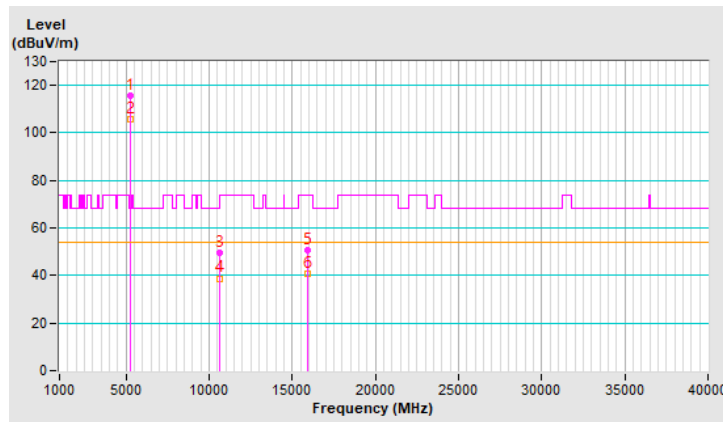


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	115.8 PK			3.13 V	13	111.5	4.3
2	*5300.00	105.7 AV			3.13 V	13	101.4	4.3
3	10600.00	49.5 PK	74.0	-24.5	2.39 V	168	35.3	14.2
4	10600.00	38.8 AV	54.0	-15.2	2.39 V	168	24.6	14.2
5	15900.00	50.7 PK	74.0	-23.3	1.64 V	212	36.9	13.8
6	15900.00	40.6 AV	54.0	-13.4	1.64 V	212	26.8	13.8

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.



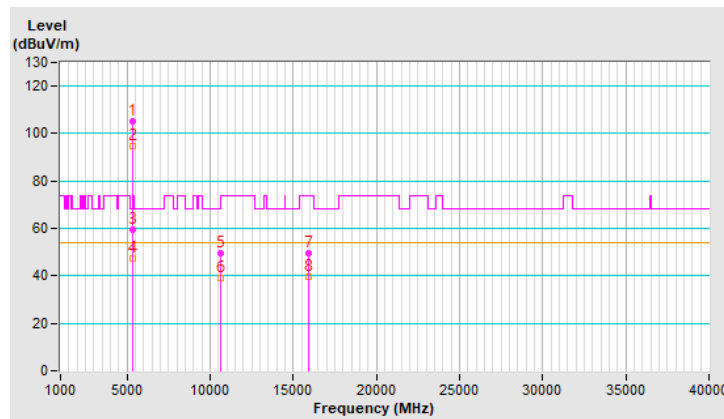
RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.1 PK			2.34 H	296	100.6	4.5
2	*5320.00	94.8 AV			2.34 H	296	90.3	4.5
3	5350.00	59.3 PK	74.0	-14.7	2.34 H	296	54.7	4.6
4	5350.00	47.4 AV	54.0	-6.6	2.34 H	296	42.8	4.6
5	10640.00	49.4 PK	74.0	-24.6	1.94 H	124	35.1	14.3
6	10640.00	39.3 AV	54.0	-14.7	1.94 H	124	25.0	14.3
7	15960.00	49.7 PK	74.0	-24.3	1.65 H	257	35.8	13.9
8	15960.00	39.5 AV	54.0	-14.5	1.65 H	257	25.6	13.9

Remarks:

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

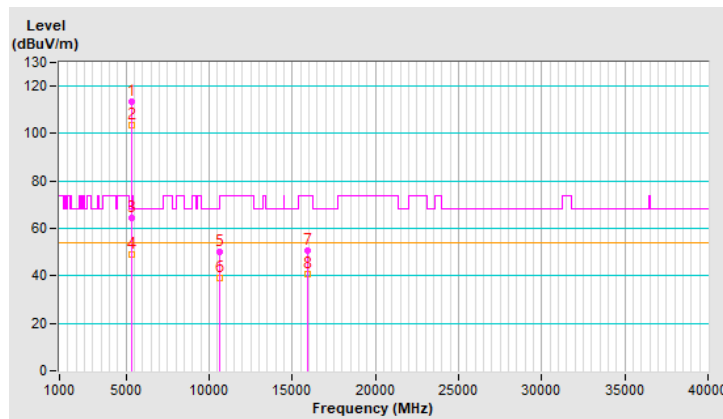


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	113.4 PK			2.77 V	231	108.9	4.5
2	*5320.00	103.4 AV			2.77 V	231	98.9	4.5
3	5350.00	64.2 PK	74.0	-9.8	2.77 V	231	59.6	4.6
4	5350.00	49.2 AV	54.0	-4.8	2.77 V	231	44.6	4.6
5	10640.00	50.0 PK	74.0	-24.0	2.43 V	179	35.7	14.3
6	10640.00	39.3 AV	54.0	-14.7	2.43 V	179	25.0	14.3
7	15960.00	50.9 PK	74.0	-23.1	1.69 V	240	37.0	13.9
8	15960.00	40.7 AV	54.0	-13.3	1.69 V	240	26.8	13.9

Remarks:

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

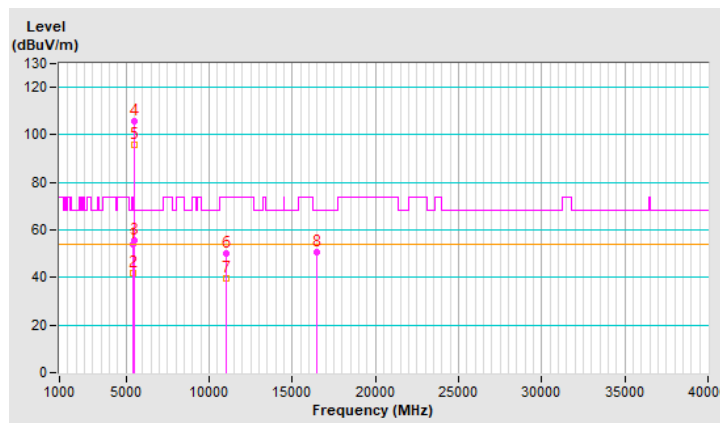


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.9 PK	74.0	-20.1	1.14 H	300	49.1	4.8
2	5460.00	41.9 AV	54.0	-12.1	1.14 H	300	37.1	4.8
3	#5470.00	55.8 PK	68.2	-12.4	1.14 H	300	51.0	4.8
4	*5500.00	105.6 PK			1.14 H	300	100.8	4.8
5	*5500.00	95.9 AV			1.14 H	300	91.1	4.8
6	11000.00	50.0 PK	74.0	-24.0	1.83 H	142	35.2	14.8
7	11000.00	39.4 AV	54.0	-14.6	1.83 H	142	24.6	14.8
8	#16500.00	50.6 PK	68.2	-17.6	1.58 H	265	35.3	15.3

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.

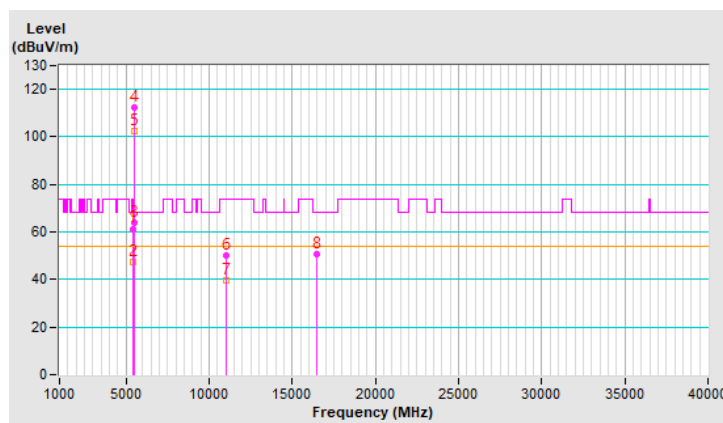


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5404.16	61.4 PK	74.0	-12.6	2.42 V	265	56.7	4.7
2	5404.16	47.5 AV	54.0	-6.5	2.42 V	265	42.8	4.7
3	#5469.73	64.0 PK	68.2	-4.2	1.00 V	0	59.2	4.8
4	*5500.00	112.1 PK			2.42 V	265	107.3	4.8
5	*5500.00	102.2 AV			2.42 V	265	97.4	4.8
6	11000.00	50.1 PK	74.0	-23.9	2.37 V	159	35.3	14.8
7	11000.00	39.7 AV	54.0	-14.3	2.37 V	159	24.9	14.8
8	#16500.00	50.9 PK	68.2	-17.3	1.64 V	240	35.6	15.3

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.

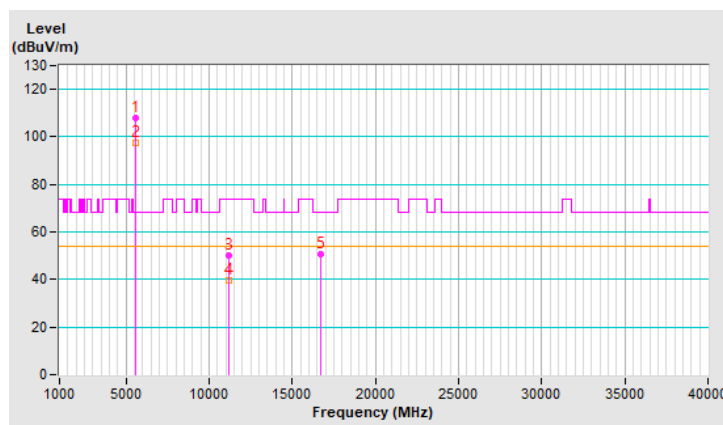


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	107.9 PK			1.10 H	288	103.1	4.8
2	*5580.00	97.6 AV			1.10 H	288	92.8	4.8
3	11160.00	49.9 PK	74.0	-24.1	1.84 H	127	35.3	14.6
4	11160.00	39.4 AV	54.0	-14.6	1.84 H	127	24.8	14.6
5	#16740.00	50.7 PK	68.2	-17.5	1.68 H	254	33.9	16.8

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.

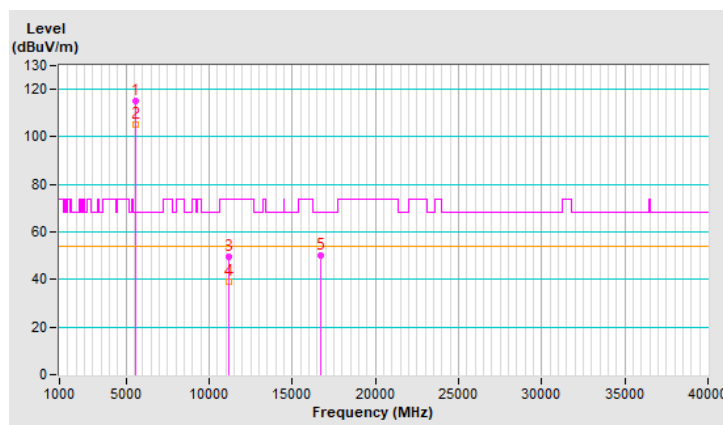


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	115.2 PK			3.15 V	22	110.4	4.8
2	*5580.00	105.4 AV			3.15 V	22	100.6	4.8
3	11160.00	49.4 PK	74.0	-24.6	2.42 V	171	34.8	14.6
4	11160.00	39.2 AV	54.0	-14.8	2.42 V	171	24.6	14.6
5	#16740.00	50.2 PK	68.2	-18.0	1.65 V	218	33.4	16.8

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.

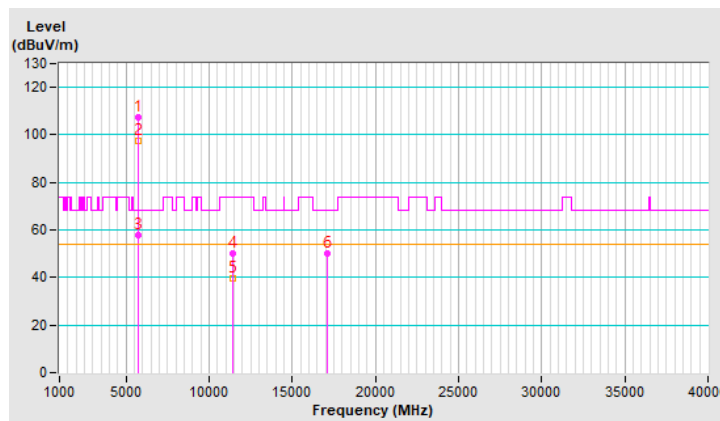


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.4 PK			1.03 H	289	102.7	4.7
2	*5700.00	97.5 AV			1.03 H	289	92.8	4.7
3	#5725.00	57.8 PK	68.2	-10.4	1.03 H	289	52.9	4.9
4	11400.00	50.1 PK	74.0	-23.9	1.94 H	142	34.7	15.4
5	11400.00	39.5 AV	54.0	-14.5	1.94 H	142	24.1	15.4
6	#17100.00	50.0 PK	68.2	-18.2	1.59 H	252	31.5	18.5

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.

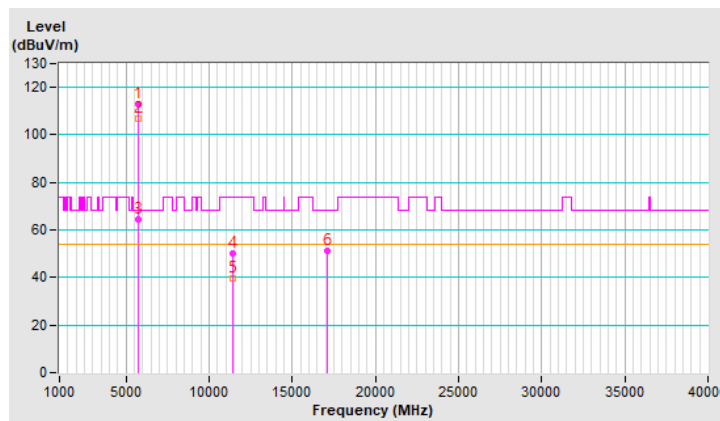


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	112.9 PK			2.53 V	295	108.2	4.7
2	*5700.00	106.7 AV			2.53 V	295	102.0	4.7
3	#5725.00	64.5 PK	68.2	-3.7	2.53 V	295	59.6	4.9
4	11400.00	49.9 PK	74.0	-24.1	2.46 V	174	34.5	15.4
5	11400.00	39.5 AV	54.0	-14.5	2.46 V	174	24.1	15.4
6	#17100.00	51.0 PK	68.2	-17.2	1.62 V	210	32.5	18.5

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.

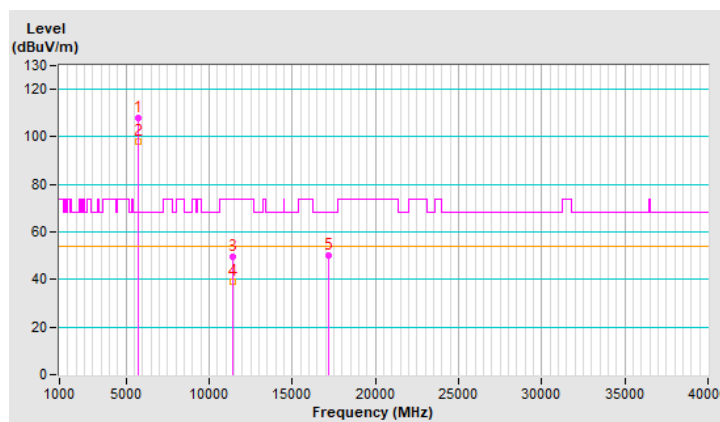


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	108.1 PK			1.04 H	289	103.3	4.8
2	*5720.00	97.8 AV			1.04 H	289	93.0	4.8
3	11440.00	49.4 PK	74.0	-24.6	1.89 H	132	34.1	15.3
4	11440.00	39.0 AV	54.0	-15.0	1.89 H	132	23.7	15.3
5	#17160.00	50.2 PK	68.2	-18.0	1.63 H	257	31.9	18.3

Remarks:

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

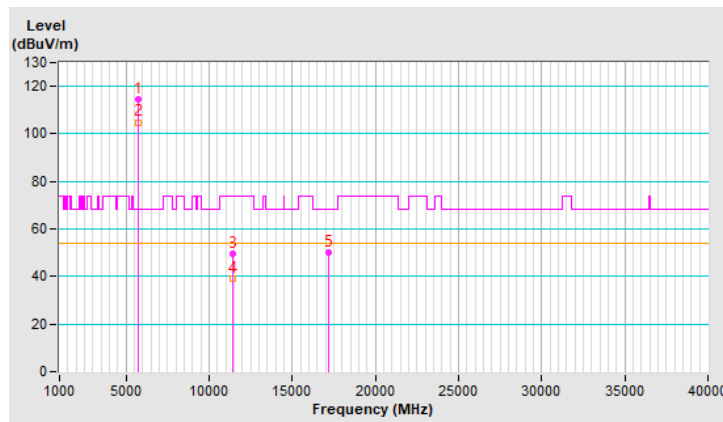


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	114.8 PK			3.15 V	25	110.0	4.8
2	*5720.00	104.9 AV			3.15 V	25	100.1	4.8
3	11440.00	49.6 PK	74.0	-24.4	2.41 V	166	34.3	15.3
4	11440.00	39.2 AV	54.0	-14.8	2.41 V	166	23.9	15.3
5	#17160.00	50.3 PK	68.2	-17.9	1.67 V	224	32.0	18.3

Remarks:

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



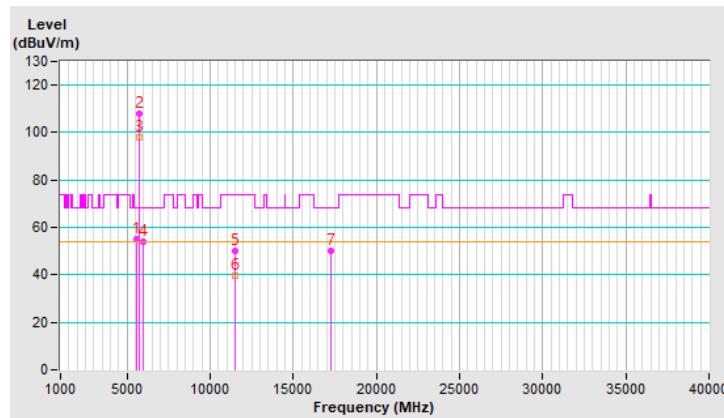
RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5555.75	55.3 PK	68.2	-12.9	1.14 H	310	50.5	4.8
2	*5745.00	108.0 PK			1.14 H	310	102.9	5.1
3	*5745.00	98.2 AV			1.14 H	310	93.1	5.1
4	#5938.66	53.9 PK	68.2	-14.3	1.14 H	310	48.4	5.5
5	11490.00	50.0 PK	74.0	-24.0	1.89 H	123	34.9	15.1
6	11490.00	39.4 AV	54.0	-14.6	1.89 H	123	24.3	15.1
7	#17235.00	50.2 PK	68.2	-18.0	1.67 H	264	31.9	18.3

Remarks:

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

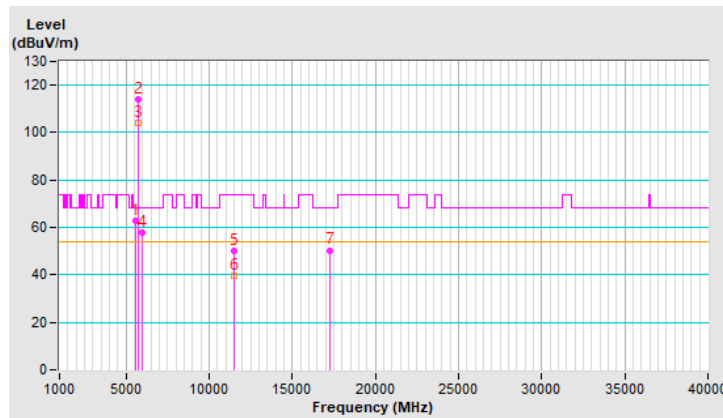


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5556.89	62.9 PK	68.2	-5.3	2.03 V	240	58.1	4.8
2	*5745.00	114.0 PK			2.03 V	240	108.9	5.1
3	*5745.00	104.0 AV			2.03 V	240	98.9	5.1
4	#5940.40	58.0 PK	68.2	-10.2	2.03 V	240	52.5	5.5
5	11490.00	50.2 PK	74.0	-23.8	2.45 V	161	35.1	15.1
6	11490.00	39.5 AV	54.0	-14.5	2.45 V	161	24.4	15.1
7	#17235.00	50.4 PK	68.2	-17.8	1.65 V	230	32.1	18.3

Remarks:

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

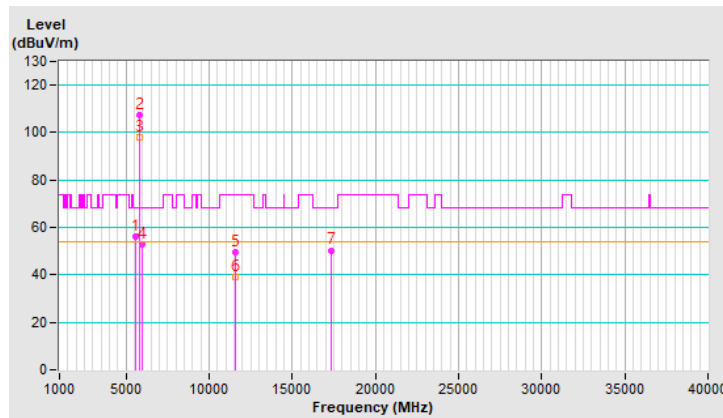


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5590.09	56.3 PK	68.2	-11.9	1.10 H	303	51.4	4.9
2	*5785.00	107.3 PK			1.10 H	303	102.1	5.2
3	*5785.00	97.9 AV			1.10 H	303	92.7	5.2
4	#5971.99	52.8 PK	68.2	-15.4	1.10 H	303	47.3	5.5
5	11570.00	49.6 PK	74.0	-24.4	1.94 H	135	34.5	15.1
6	11570.00	39.3 AV	54.0	-14.7	1.94 H	135	24.2	15.1
7	#17355.00	50.4 PK	68.2	-17.8	1.61 H	261	31.5	18.9

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.

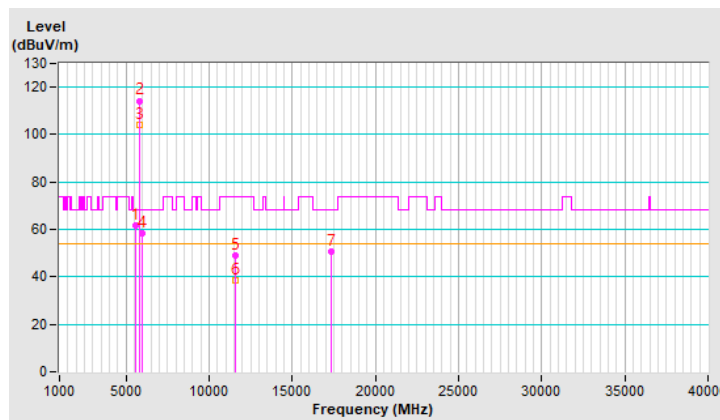


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5595.03	61.6 PK	68.2	-6.6	2.05 V	254	56.7	4.9
2	*5785.00	114.3 PK			2.05 V	254	109.1	5.2
3	*5785.00	104.2 AV			2.05 V	254	99.0	5.2
4	#5973.46	58.5 PK	68.2	-9.7	2.05 V	254	53.0	5.5
5	11570.00	49.2 PK	74.0	-24.8	2.37 V	181	34.1	15.1
6	11570.00	38.7 AV	54.0	-15.3	2.37 V	181	23.6	15.1
7	#17355.00	50.9 PK	68.2	-17.3	1.65 V	211	32.0	18.9

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.

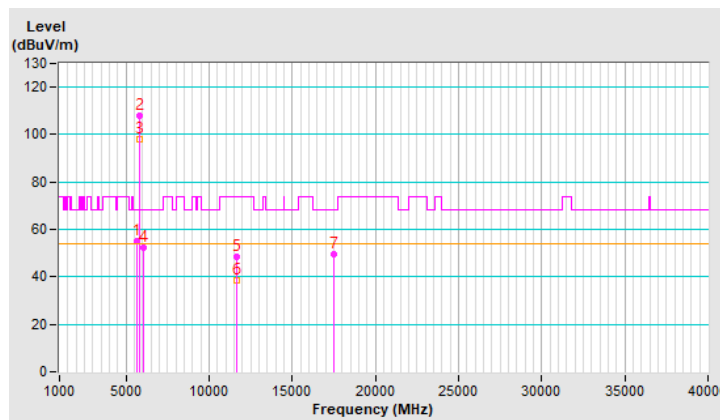


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5627.95	55.3 PK	68.2	-12.9	1.14 H	307	50.4	4.9
2	*5825.00	107.9 PK			1.14 H	307	102.6	5.3
3	*5825.00	98.2 AV			1.14 H	307	92.9	5.3
4	#6017.83	52.5 PK	68.2	-15.7	1.14 H	307	47.0	5.5
5	11650.00	48.7 PK	74.0	-25.3	1.95 H	135	33.7	15.0
6	11650.00	38.5 AV	54.0	-15.5	1.95 H	135	23.5	15.0
7	#17475.00	49.8 PK	68.2	-18.4	1.65 H	258	30.8	19.0

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.

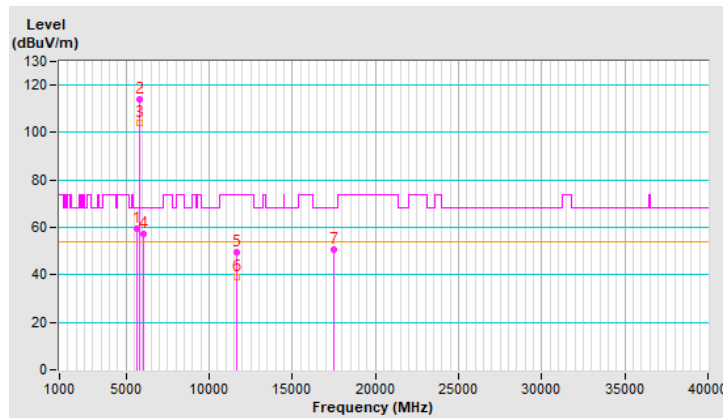


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5633.98	59.6 PK	68.2	-8.6	2.06 V	209	54.7	4.9
2	*5825.00	114.2 PK			2.06 V	209	108.9	5.3
3	*5825.00	104.1 AV			2.06 V	209	98.8	5.3
4	#6021.84	57.1 PK	68.2	-11.1	2.06 V	209	51.6	5.5
5	11650.00	49.5 PK	74.0	-24.5	2.43 V	152	34.5	15.0
6	11650.00	39.2 AV	54.0	-14.8	2.43 V	152	24.2	15.0
7	#17475.00	50.8 PK	68.2	-17.4	1.62 V	216	31.8	19.0

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.

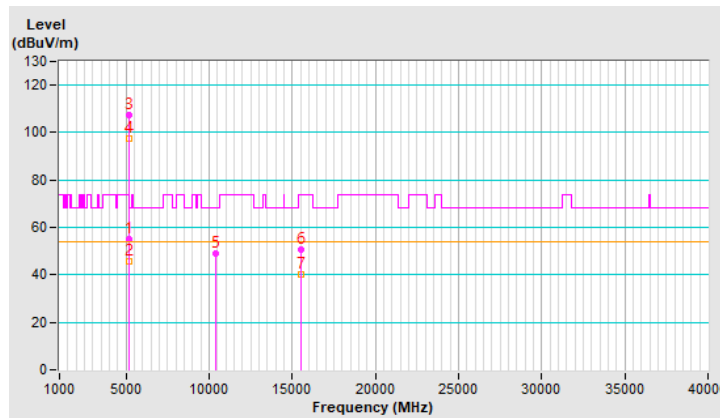


RF Mode	TX 802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	55.3 PK	74.0	-18.7	1.12 H	296	50.5	4.8
2	5150.00	45.6 AV	54.0	-8.4	1.12 H	296	40.8	4.8
3	*5180.00	107.5 PK			1.12 H	296	102.8	4.7
4	*5180.00	97.6 AV			1.12 H	296	92.9	4.7
5	#10360.00	49.2 PK	68.2	-19.0	1.83 H	145	35.0	14.2
6	15540.00	50.5 PK	74.0	-23.5	1.58 H	259	36.1	14.4
7	15540.00	40.2 AV	54.0	-13.8	1.58 H	259	25.8	14.4

Remarks:

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

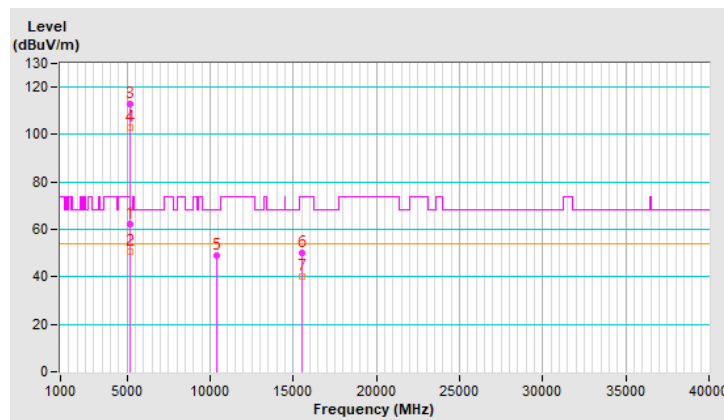


RF Mode	TX 802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	2.33 V	267	57.5	4.8
2	5150.00	50.5 AV	54.0	-3.5	2.33 V	267	45.7	4.8
3	*5180.00	112.8 PK			3.14 V	356	108.1	4.7
4	*5180.00	102.9 AV			3.14 V	356	98.2	4.7
5	#10360.00	49.0 PK	68.2	-19.2	2.42 V	181	34.8	14.2
6	15540.00	49.9 PK	74.0	-24.1	1.66 V	232	35.5	14.4
7	15540.00	40.1 AV	54.0	-13.9	1.66 V	232	25.7	14.4

Remarks:

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

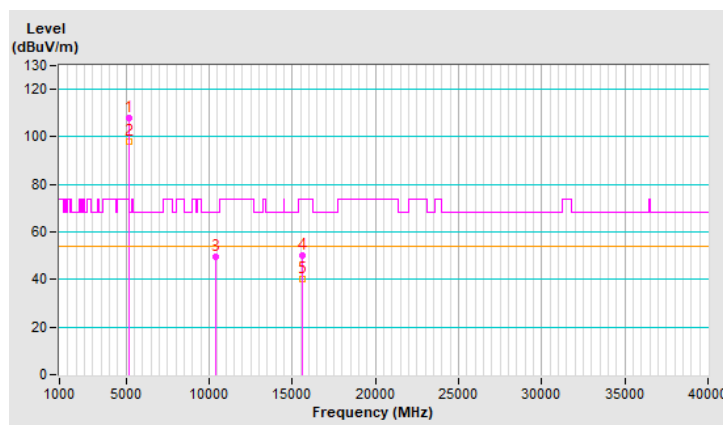


RF Mode	TX 802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	108.1 PK			1.04 H	122	103.5	4.6
2	*5200.00	98.2 AV			1.04 H	122	93.6	4.6
3	#10400.00	49.7 PK	68.2	-18.5	1.89 H	131	35.5	14.2
4	15600.00	50.1 PK	74.0	-23.9	1.61 H	254	35.3	14.8
5	15600.00	40.0 AV	54.0	-14.0	1.61 H	254	25.2	14.8

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.

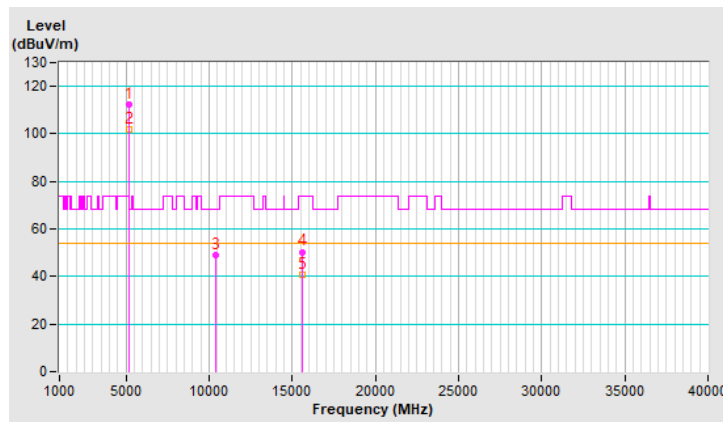


RF Mode	TX 802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	112.2 PK			2.45 V	216	107.6	4.6
2	*5200.00	101.8 AV			2.45 V	216	97.2	4.6
3	#10400.00	48.8 PK	68.2	-19.4	2.42 V	155	34.6	14.2
4	15600.00	50.4 PK	74.0	-23.6	1.72 V	213	35.6	14.8
5	15600.00	40.5 AV	54.0	-13.5	1.72 V	213	25.7	14.8

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.

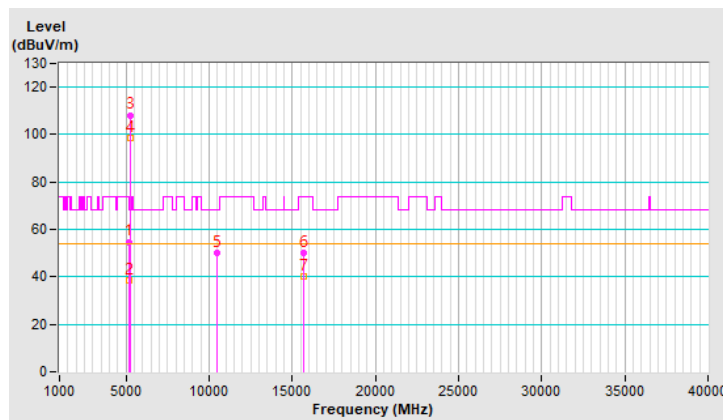


RF Mode	TX 802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	54.8 PK	74.0	-19.2	1.04 H	123	50.0	4.8
2	5150.00	38.4 AV	54.0	-15.6	1.04 H	123	33.6	4.8
3	*5240.00	108.2 PK			1.04 H	123	103.8	4.4
4	*5240.00	98.6 AV			1.04 H	123	94.2	4.4
5	#10480.00	50.1 PK	68.2	-18.1	1.90 H	144	35.7	14.4
6	15720.00	50.1 PK	74.0	-23.9	1.64 H	241	36.6	13.5
7	15720.00	40.0 AV	54.0	-14.0	1.64 H	241	26.5	13.5

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.

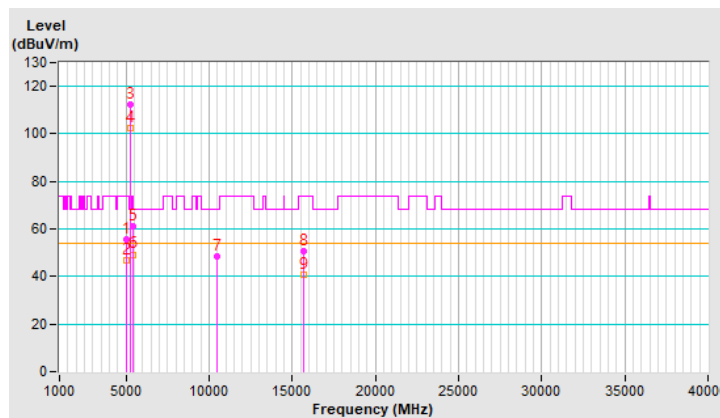


RF Mode	TX 802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5048.11	55.7 PK	74.0	-18.3	2.47 V	226	51.5	4.2
2	5048.11	46.8 AV	54.0	-7.2	2.47 V	226	42.6	4.2
3	*5240.00	112.4 PK			2.47 V	226	108.0	4.4
4	*5240.00	102.3 AV			2.47 V	226	97.9	4.4
5	5429.59	61.0 PK	74.0	-13.0	2.47 V	226	56.3	4.7
6	5429.59	49.3 AV	54.0	-4.7	2.47 V	226	44.6	4.7
7	#10480.00	48.5 PK	68.2	-19.7	2.45 V	167	34.1	14.4
8	15720.00	50.8 PK	74.0	-23.2	1.75 V	219	37.3	13.5
9	15720.00	40.9 AV	54.0	-13.1	1.75 V	219	27.4	13.5

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.

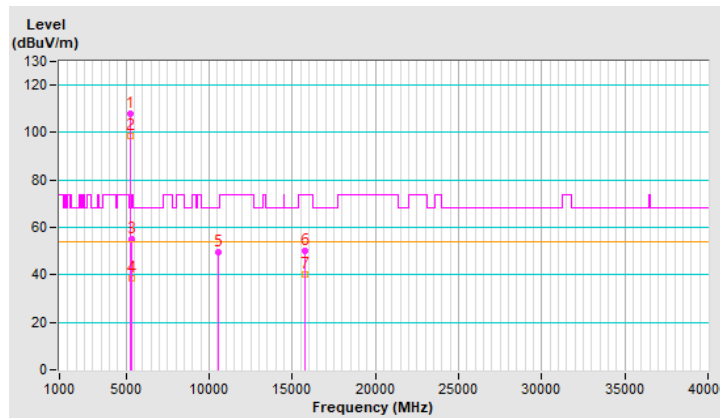


RF Mode	TX 802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	*5260.00	108.1 PK			1.12 H	97	103.7	4.4
2	*5260.00	98.7 AV			1.12 H	97	94.3	4.4
3	5350.00	55.1 PK	74.0	-18.9	1.12 H	97	50.5	4.6
4	5350.00	38.7 AV	54.0	-15.3	1.12 H	97	34.1	4.6
5	#10520.00	49.4 PK	68.2	-18.8	1.90 H	145	35.0	14.4
6	15780.00	50.3 PK	74.0	-23.7	1.59 H	253	36.7	13.6
7	15780.00	40.2 AV	54.0	-13.8	1.59 H	253	26.6	13.6

Remarks:

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

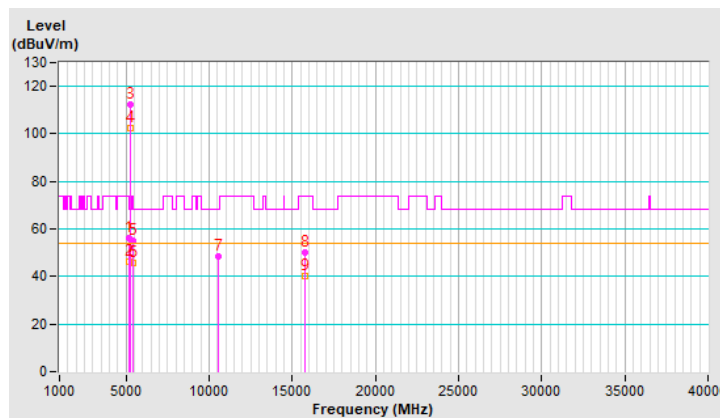


RF Mode	TX 802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	56.0 PK	74.0	-18.0	2.67 V	265	51.2	4.8
2	5150.00	46.5 AV	54.0	-7.5	2.67 V	265	41.7	4.8
3	*5260.00	112.5 PK			2.67 V	265	108.1	4.4
4	*5260.00	102.6 AV			2.67 V	265	98.2	4.4
5	5453.31	55.3 PK	74.0	-18.7	2.67 V	265	50.5	4.8
6	5453.31	45.6 AV	54.0	-8.4	2.67 V	265	40.8	4.8
7	#10520.00	48.5 PK	68.2	-19.7	2.43 V	149	34.1	14.4
8	15780.00	50.3 PK	74.0	-23.7	1.66 V	219	36.7	13.6
9	15780.00	40.4 AV	54.0	-13.6	1.66 V	219	26.8	13.6

Remarks:

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

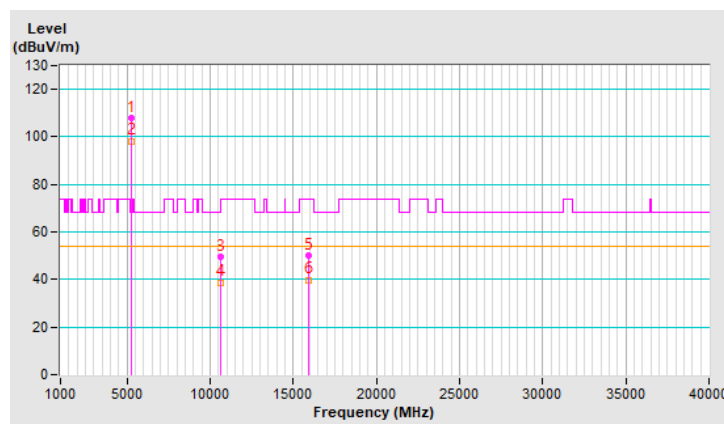


RF Mode	TX 802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	107.7 PK			1.12 H	105	103.4	4.3
2	*5300.00	98.3 AV			1.12 H	105	94.0	4.3
3	10600.00	49.4 PK	74.0	-24.6	1.94 H	129	35.2	14.2
4	10600.00	38.8 AV	54.0	-15.2	1.94 H	129	24.6	14.2
5	15900.00	50.0 PK	74.0	-24.0	1.61 H	245	36.2	13.8
6	15900.00	39.9 AV	54.0	-14.1	1.61 H	245	26.1	13.8

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.

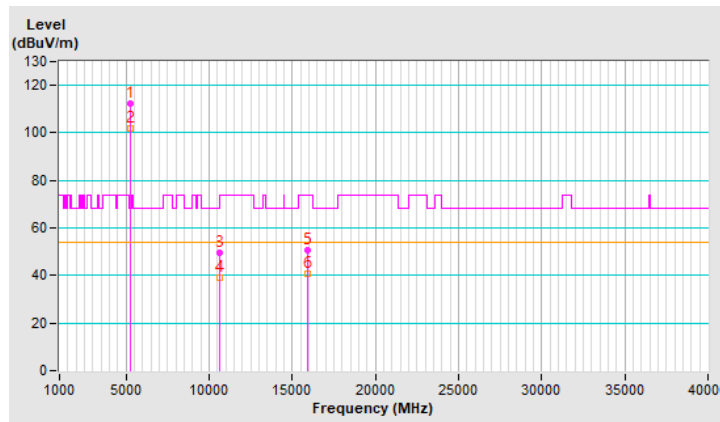


RF Mode	TX 802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	112.1 PK			2.48 V	236	107.8	4.3
2	*5300.00	102.1 AV			2.48 V	236	97.8	4.3
3	10600.00	49.6 PK	74.0	-24.4	2.44 V	182	35.4	14.2
4	10600.00	38.9 AV	54.0	-15.1	2.44 V	182	24.7	14.2
5	15900.00	50.7 PK	74.0	-23.3	1.73 V	240	36.9	13.8
6	15900.00	40.7 AV	54.0	-13.3	1.73 V	240	26.9	13.8

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.

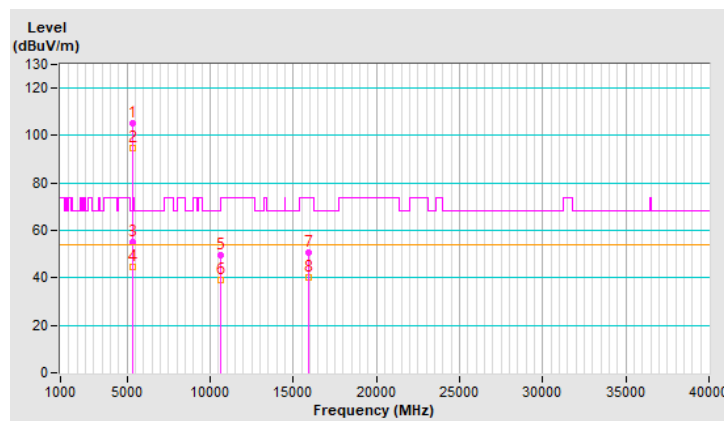


RF Mode	TX 802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.0 PK			1.11 H	298	100.5	4.5
2	*5320.00	94.7 AV			1.11 H	298	90.2	4.5
3	5350.00	55.0 PK	74.0	-19.0	1.11 H	298	50.4	4.6
4	5350.00	44.4 AV	54.0	-9.6	1.11 H	298	39.8	4.6
5	10640.00	49.5 PK	74.0	-24.5	1.85 H	142	35.2	14.3
6	10640.00	39.2 AV	54.0	-14.8	1.85 H	142	24.9	14.3
7	15960.00	50.6 PK	74.0	-23.4	1.66 H	264	36.7	13.9
8	15960.00	40.3 AV	54.0	-13.7	1.66 H	264	26.4	13.9

Remarks:

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

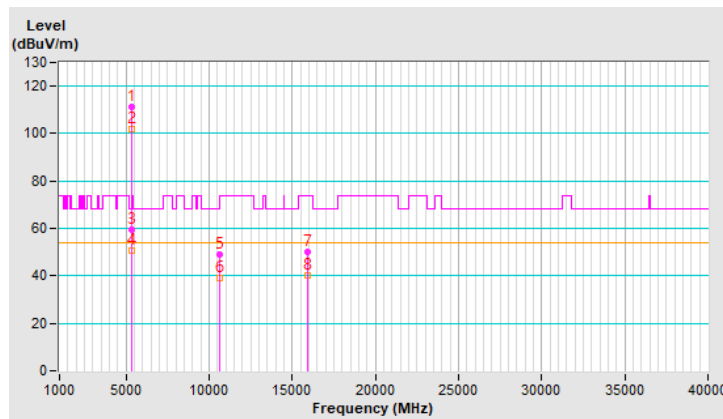


RF Mode	TX 802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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			2.89 V	244	106.9	4.5
2	*5320.00	102.0 AV			2.89 V	244	97.5	4.5
3	5350.00	59.3 PK	74.0	-14.7	2.89 V	244	54.7	4.6
4	5350.00	50.7 AV	54.0	-3.3	2.89 V	244	46.1	4.6
5	10640.00	49.2 PK	74.0	-24.8	2.36 V	156	34.9	14.3
6	10640.00	39.0 AV	54.0	-15.0	2.36 V	156	24.7	14.3
7	15960.00	50.1 PK	74.0	-23.9	1.63 V	226	36.2	13.9
8	15960.00	40.2 AV	54.0	-13.8	1.63 V	226	26.3	13.9

Remarks:

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

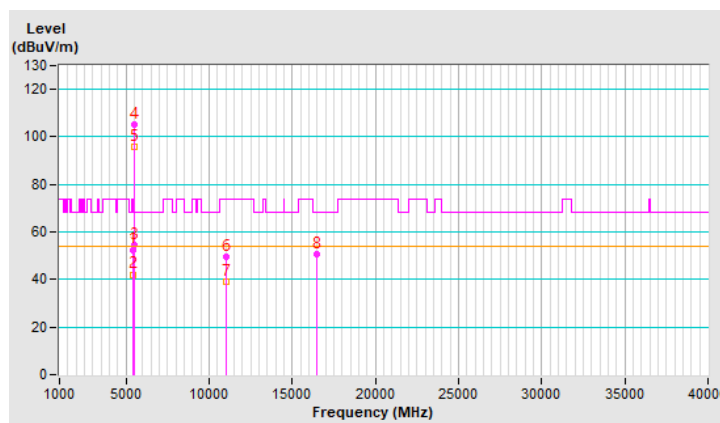


RF Mode	TX 802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	52.6 PK	74.0	-21.4	1.13 H	299	47.8	4.8
2	5460.00	42.1 AV	54.0	-11.9	1.13 H	299	37.3	4.8
3	#5469.45	54.5 PK	68.2	-13.7	1.13 H	299	49.7	4.8
4	*5500.00	105.3 PK			1.13 H	299	100.5	4.8
5	*5500.00	95.6 AV			1.13 H	299	90.8	4.8
6	11000.00	49.5 PK	74.0	-24.5	1.93 H	128	34.7	14.8
7	11000.00	39.3 AV	54.0	-14.7	1.93 H	128	24.5	14.8
8	#16500.00	50.7 PK	68.2	-17.5	1.68 H	267	35.4	15.3

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.

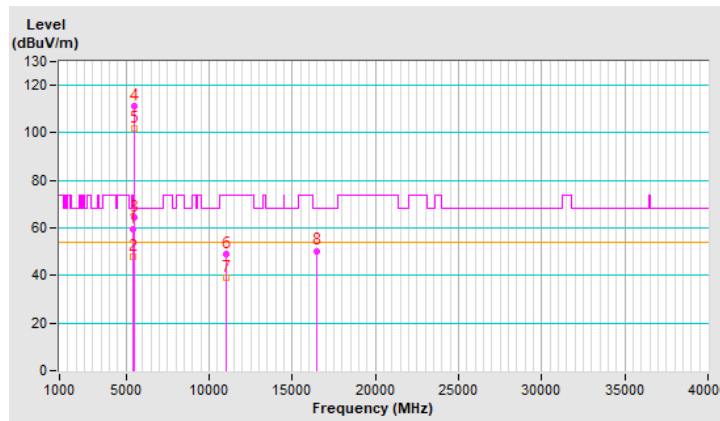


RF Mode	TX 802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5404.04	59.3 PK	74.0	-14.7	2.24 V	240	54.6	4.7
2	5404.04	47.7 AV	54.0	-6.3	2.24 V	240	43.0	4.7
3	#5466.54	64.4 PK	68.2	-3.8	2.24 V	240	59.6	4.8
4	*5500.00	111.3 PK			2.24 V	240	106.5	4.8
5	*5500.00	101.7 AV			2.24 V	240	96.9	4.8
6	11000.00	49.1 PK	74.0	-24.9	2.47 V	175	34.3	14.8
7	11000.00	38.9 AV	54.0	-15.1	2.47 V	175	24.1	14.8
8	#16500.00	50.4 PK	68.2	-17.8	1.68 V	222	35.1	15.3

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.

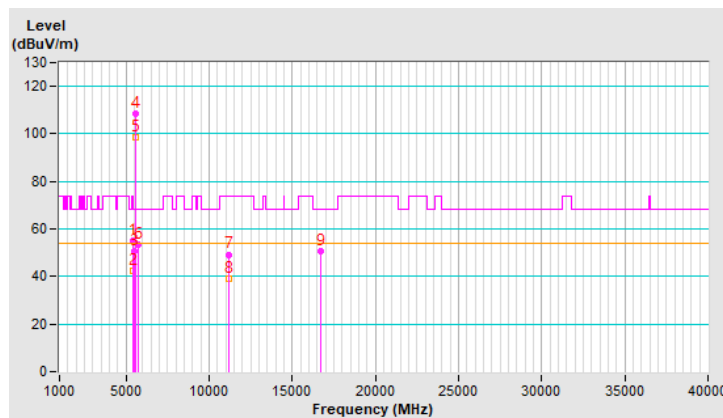


RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	55.3 PK	74.0	-18.7	1.11 H	116	50.5	4.8
2	5460.00	42.2 AV	54.0	-11.8	1.11 H	116	37.4	4.8
3	#5470.00	50.7 PK	68.2	-17.5	1.11 H	116	45.9	4.8
4	*5580.00	108.5 PK			1.11 H	116	103.7	4.8
5	*5580.00	98.6 AV			1.11 H	116	93.8	4.8
6	#5725.00	53.2 PK	68.2	-15.0	1.11 H	116	48.3	4.9
7	11160.00	49.3 PK	74.0	-24.7	1.89 H	121	34.7	14.6
8	11160.00	38.9 AV	54.0	-15.1	1.89 H	121	24.3	14.6
9	#16740.00	50.5 PK	68.2	-17.7	1.57 H	240	33.7	16.8

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.

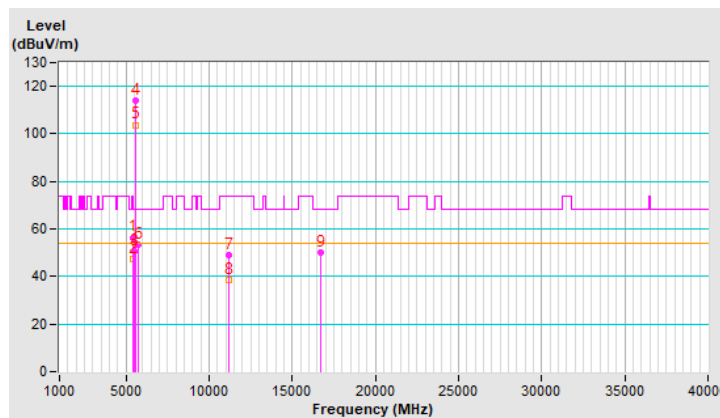


RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5386.23	56.5 PK	74.0	-17.5	2.99 V	254	51.8	4.7
2	5386.23	47.1 AV	54.0	-6.9	2.99 V	254	42.4	4.7
3	#5470.00	50.7 PK	68.2	-17.5	2.99 V	254	45.9	4.8
4	*5580.00	114.2 PK			2.99 V	254	109.4	4.8
5	*5580.00	103.8 AV			2.99 V	254	99.0	4.8
6	#5773.83	53.5 PK	68.2	-14.7	2.99 V	254	48.3	5.2
7	11160.00	48.8 PK	74.0	-25.2	2.49 V	181	34.2	14.6
8	11160.00	38.7 AV	54.0	-15.3	2.49 V	181	24.1	14.6
9	#16740.00	50.0 PK	68.2	-18.2	1.66 V	233	33.2	16.8

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.

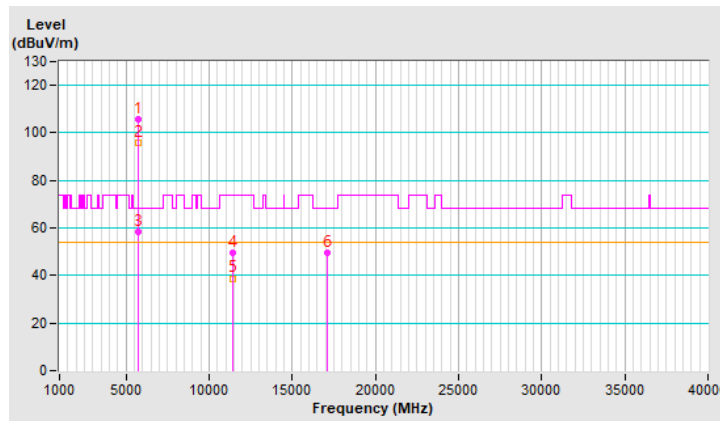


RF Mode	TX 802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	*5700.00	105.5 PK			1.10 H	285	100.8	4.7
2	*5700.00	95.8 AV			1.10 H	285	91.1	4.7
3	#5725.00	58.3 PK	68.2	-9.9	1.10 H	285	53.4	4.9
4	11400.00	49.4 PK	74.0	-24.6	1.94 H	143	34.0	15.4
5	11400.00	38.8 AV	54.0	-15.2	1.94 H	143	23.4	15.4
6	#17100.00	49.8 PK	68.2	-18.4	1.68 H	246	31.3	18.5

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.

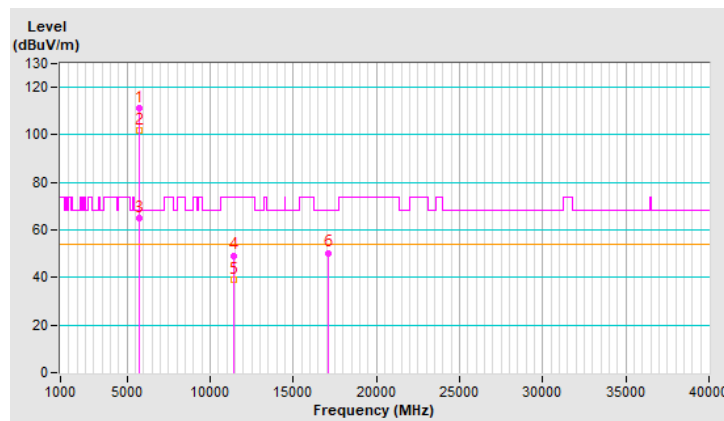


RF Mode	TX 802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	111.5 PK			3.00 V	252	106.8	4.7
2	*5700.00	102.1 AV			3.00 V	252	97.4	4.7
3	#5725.00	64.9 PK	68.2	-3.3	3.00 V	252	60.0	4.9
4	11400.00	49.3 PK	74.0	-24.7	2.46 V	162	33.9	15.4
5	11400.00	39.2 AV	54.0	-14.8	2.46 V	162	23.8	15.4
6	#17100.00	50.4 PK	68.2	-17.8	1.65 V	212	31.9	18.5

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.

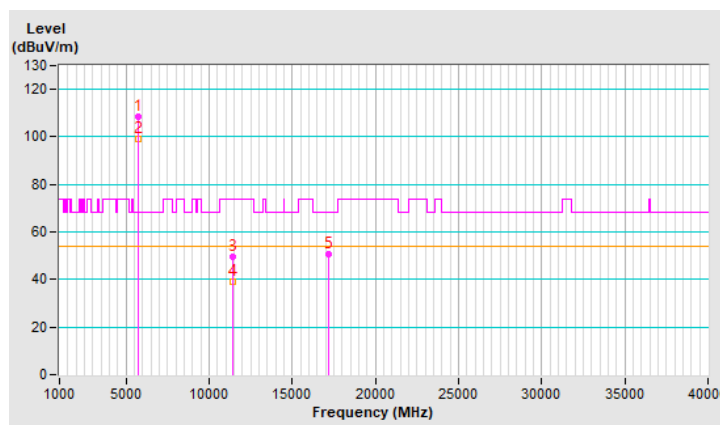


RF Mode	TX 802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	108.6 PK			1.07 H	106	103.8	4.8
2	*5720.00	98.9 AV			1.07 H	106	94.1	4.8
3	11440.00	49.7 PK	74.0	-24.3	1.91 H	140	34.4	15.3
4	11440.00	39.2 AV	54.0	-14.8	1.91 H	140	23.9	15.3
5	#17160.00	50.8 PK	68.2	-17.4	1.68 H	266	32.5	18.3

Remarks:

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

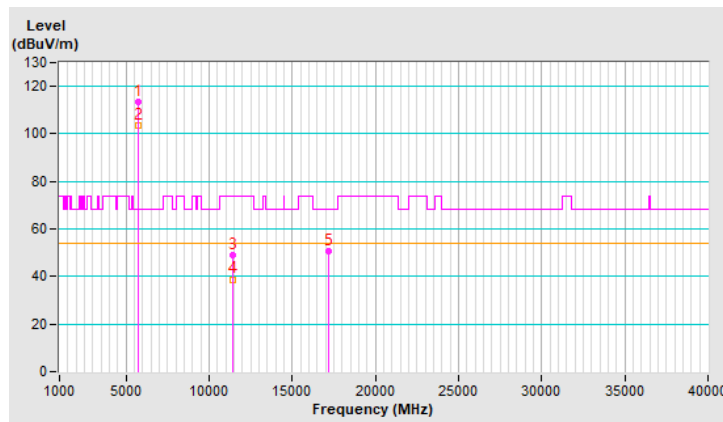


RF Mode	TX 802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	113.6 PK			3.01 V	239	108.8	4.8
2	*5720.00	103.4 AV			3.01 V	239	98.6	4.8
3	11440.00	48.9 PK	74.0	-25.1	2.47 V	182	33.6	15.3
4	11440.00	38.8 AV	54.0	-15.2	2.47 V	182	23.5	15.3
5	#17160.00	50.6 PK	68.2	-17.6	1.65 V	224	32.3	18.3

Remarks:

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

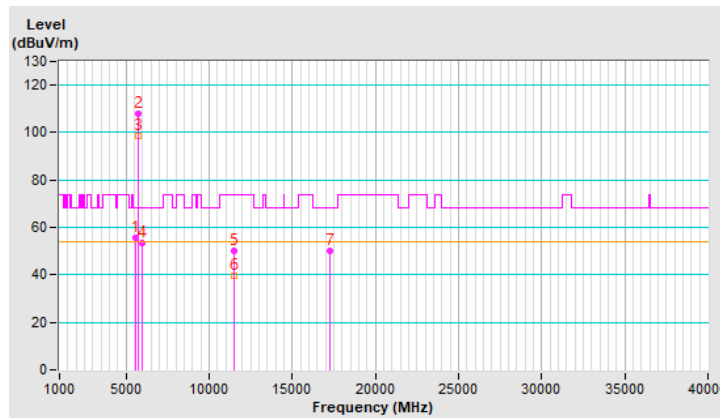


RF Mode	TX 802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5551.71	55.4 PK	68.2	-12.8	1.08 H	110	50.6	4.8
2	*5745.00	108.1 PK			1.08 H	110	103.0	5.1
3	*5745.00	98.4 AV			1.08 H	110	93.3	5.1
4	#5944.39	53.2 PK	68.2	-15.0	1.08 H	110	47.7	5.5
5	11490.00	50.0 PK	74.0	-24.0	1.92 H	139	34.9	15.1
6	11490.00	39.5 AV	54.0	-14.5	1.92 H	139	24.4	15.1
7	#17235.00	50.1 PK	68.2	-18.1	1.62 H	259	31.8	18.3

Remarks:

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

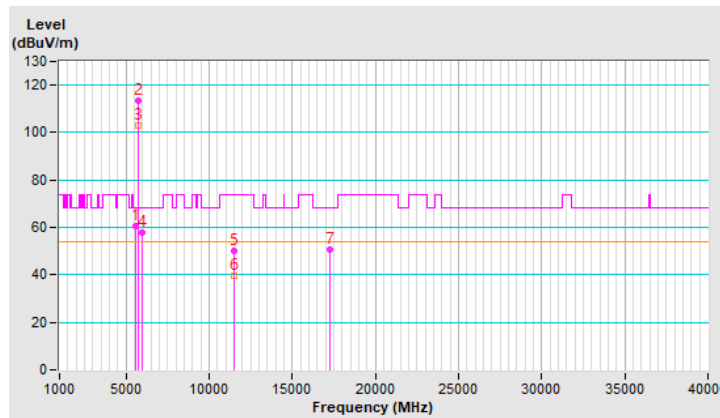


RF Mode	TX 802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5553.87	60.4 PK	68.2	-7.8	2.14 V	214	55.6	4.8
2	*5745.00	113.3 PK			2.14 V	214	108.2	5.1
3	*5745.00	103.0 AV			2.14 V	214	97.9	5.1
4	#5939.38	57.9 PK	68.2	-10.3	2.14 V	214	52.4	5.5
5	11490.00	50.2 PK	74.0	-23.8	2.45 V	161	35.1	15.1
6	11490.00	39.6 AV	54.0	-14.4	2.45 V	161	24.5	15.1
7	#17235.00	50.8 PK	68.2	-17.4	1.71 V	234	32.5	18.3

Remarks:

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

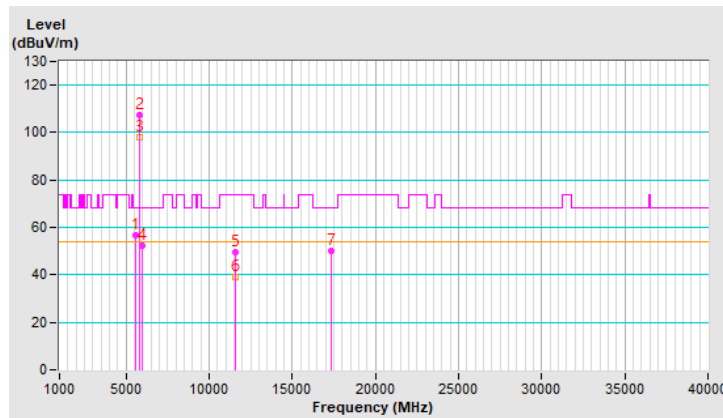


RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5585.75	56.8 PK	68.2	-11.4	1.09 H	124	52.0	4.8
2	*5785.00	107.6 PK			1.09 H	124	102.4	5.2
3	*5785.00	97.8 AV			1.09 H	124	92.6	5.2
4	#5976.60	52.2 PK	68.2	-16.0	1.09 H	124	46.7	5.5
5	11570.00	49.5 PK	74.0	-24.5	1.93 H	132	34.4	15.1
6	11570.00	38.9 AV	54.0	-15.1	1.93 H	132	23.8	15.1
7	#17355.00	50.1 PK	68.2	-18.1	1.60 H	255	31.2	18.9

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.

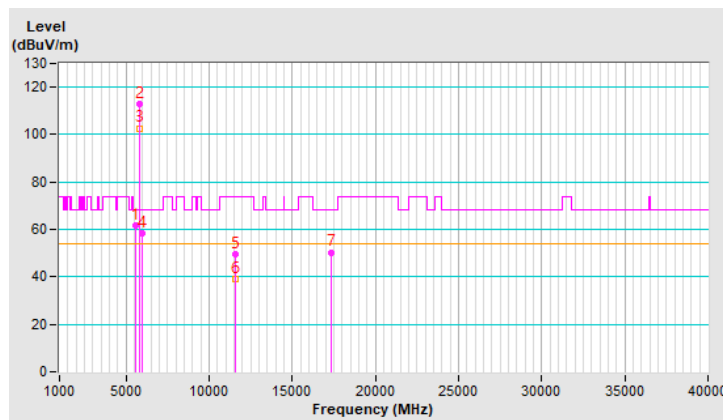


RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5588.14	61.6 PK	68.2	-6.6	2.19 V	205	56.7	4.9
2	*5785.00	113.1 PK			2.19 V	205	107.9	5.2
3	*5785.00	102.7 AV			2.19 V	205	97.5	5.2
4	#5978.76	58.4 PK	68.2	-9.8	2.19 V	205	52.9	5.5
5	11570.00	49.4 PK	74.0	-24.6	2.42 V	151	34.3	15.1
6	11570.00	39.0 AV	54.0	-15.0	2.42 V	151	23.9	15.1
7	#17355.00	50.4 PK	68.2	-17.8	1.63 V	224	31.5	18.9

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.

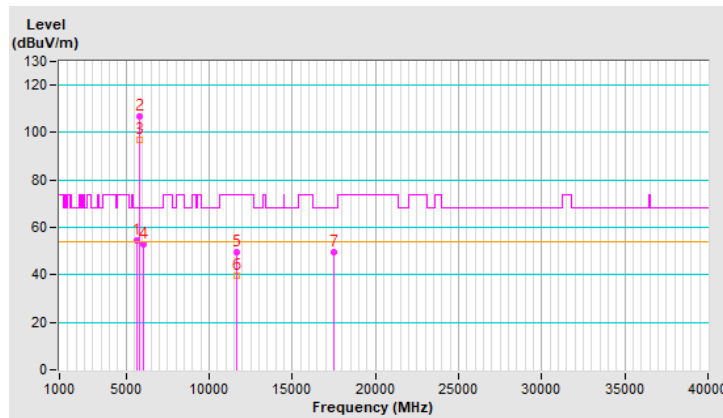


RF Mode	TX 802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5634.60	54.4 PK	68.2	-13.8	1.31 H	125	49.5	4.9
2	*5825.00	107.0 PK			1.31 H	125	101.7	5.3
3	*5825.00	96.9 AV			1.31 H	125	91.6	5.3
4	#6020.37	53.0 PK	68.2	-15.2	1.31 H	125	47.5	5.5
5	11650.00	49.8 PK	74.0	-24.2	1.91 H	121	34.8	15.0
6	11650.00	39.4 AV	54.0	-14.6	1.91 H	121	24.4	15.0
7	#17475.00	49.8 PK	68.2	-18.4	1.59 H	256	30.8	19.0

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.

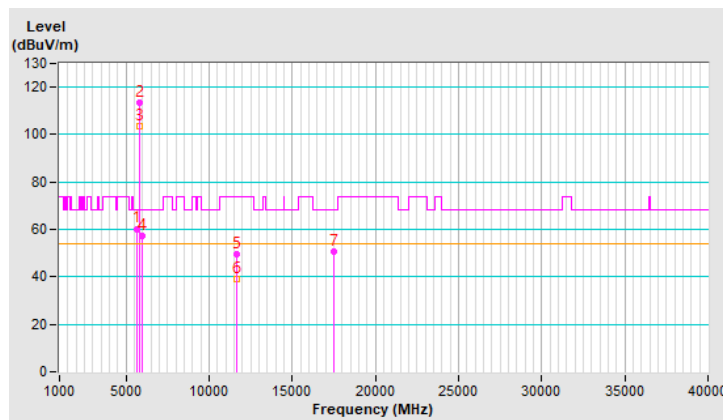


RF Mode	TX 802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.63	60.3 PK	68.2	-7.9	2.11 V	209	55.4	4.9
2	*5825.00	113.6 PK			2.11 V	209	108.3	5.3
3	*5825.00	103.7 AV			2.11 V	209	98.4	5.3
4	#6012.17	57.2 PK	68.2	-11.0	2.11 V	209	51.8	5.4
5	11650.00	49.7 PK	74.0	-24.3	2.45 V	171	34.7	15.0
6	11650.00	39.3 AV	54.0	-14.7	2.45 V	171	24.3	15.0
7	#17475.00	50.7 PK	68.2	-17.5	1.63 V	222	31.7	19.0

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.

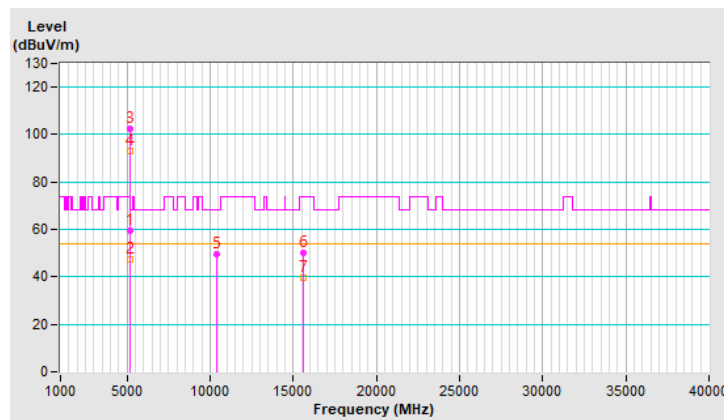


RF Mode	TX 802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.10 H	309	54.6	4.8
2	5150.00	47.5 AV	54.0	-6.5	1.10 H	309	42.7	4.8
3	*5190.00	102.2 PK			1.10 H	309	97.6	4.6
4	*5190.00	93.0 AV			1.10 H	309	88.4	4.6
5	#10380.00	49.4 PK	68.2	-18.8	1.86 H	128	35.2	14.2
6	15570.00	50.1 PK	74.0	-23.9	1.63 H	254	35.6	14.5
7	15570.00	39.6 AV	54.0	-14.4	1.63 H	254	25.1	14.5

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.

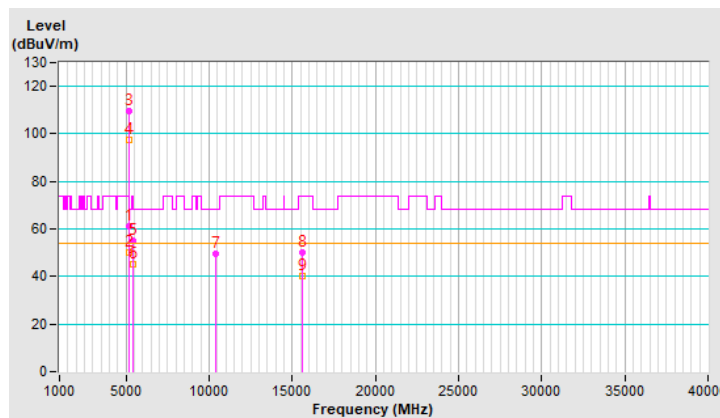


RF Mode	TX 802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	61.2 PK	74.0	-12.8	2.90 V	249	56.4	4.8
2	5150.00	50.3 AV	54.0	-3.7	2.90 V	249	45.5	4.8
3	*5190.00	109.4 PK			2.90 V	249	104.8	4.6
4	*5190.00	97.7 AV			2.90 V	249	93.1	4.6
5	5382.07	55.0 PK	74.0	-19.0	2.90 V	249	50.3	4.7
6	5382.07	45.0 AV	54.0	-9.0	2.90 V	249	40.3	4.7
7	#10380.00	49.7 PK	68.2	-18.5	2.37 V	175	35.5	14.2
8	15570.00	50.3 PK	74.0	-23.7	1.72 V	237	35.8	14.5
9	15570.00	40.4 AV	54.0	-13.6	1.72 V	237	25.9	14.5

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.

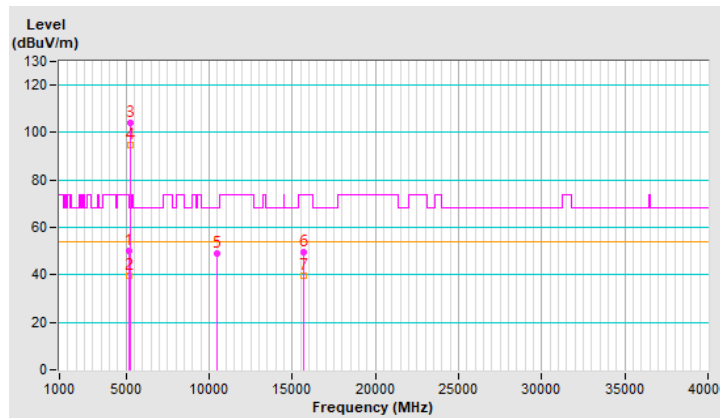


RF Mode	TX 802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.3 PK	74.0	-23.7	1.17 H	129	45.5	4.8
2	5150.00	39.4 AV	54.0	-14.6	1.17 H	129	34.6	4.8
3	*5230.00	104.1 PK			1.17 H	129	99.6	4.5
4	*5230.00	94.8 AV			1.17 H	129	90.3	4.5
5	#10460.00	49.2 PK	68.2	-19.0	1.94 H	140	34.8	14.4
6	15690.00	49.6 PK	74.0	-24.4	1.58 H	247	35.9	13.7
7	15690.00	39.6 AV	54.0	-14.4	1.58 H	247	25.9	13.7

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.

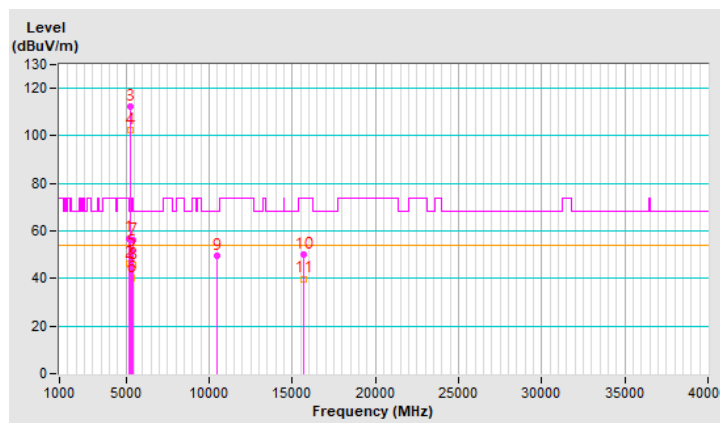


RF Mode	TX 802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	57.0 PK	74.0	-17.0	2.84 V	246	52.2	4.8
2	5150.00	46.3 AV	54.0	-7.7	2.84 V	246	41.5	4.8
3	*5230.00	112.5 PK			2.84 V	246	108.0	4.5
4	*5230.00	102.3 AV			2.84 V	246	97.8	4.5
5	5350.00	51.3 PK	74.0	-22.7	2.84 V	246	46.7	4.6
6	5350.00	40.1 AV	54.0	-13.9	2.84 V	246	35.5	4.6
7	5427.28	56.0 PK	74.0	-18.0	2.84 V	246	51.3	4.7
8	5427.28	45.5 AV	54.0	-8.5	2.84 V	246	40.8	4.7
9	#10460.00	49.7 PK	68.2	-18.5	2.47 V	156	35.3	14.4
10	15690.00	50.1 PK	74.0	-23.9	1.63 V	229	36.4	13.7
11	15690.00	39.9 AV	54.0	-14.1	1.63 V	229	26.2	13.7

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.

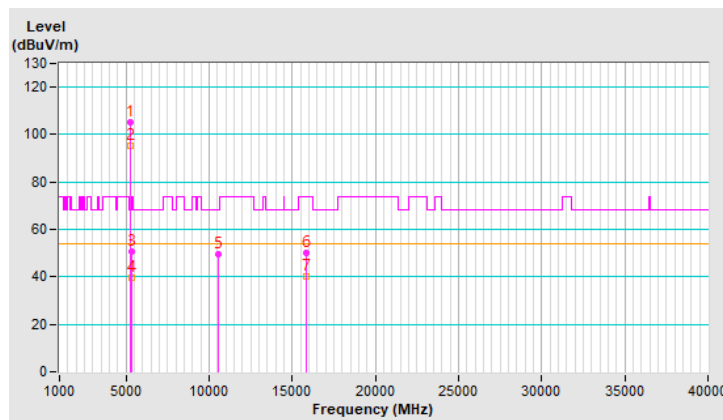


RF Mode	TX 802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	105.3 PK			1.16 H	119	101.0	4.3
2	*5270.00	95.5 AV			1.16 H	119	91.2	4.3
3	5350.00	50.6 PK	74.0	-23.4	1.16 H	119	46.0	4.6
4	5350.00	39.7 AV	54.0	-14.3	1.16 H	119	35.1	4.6
5	#10540.00	49.6 PK	68.2	-18.6	1.92 H	123	35.2	14.4
6	15810.00	50.3 PK	74.0	-23.7	1.61 H	263	36.7	13.6
7	15810.00	40.2 AV	54.0	-13.8	1.61 H	263	26.6	13.6

Remarks:

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

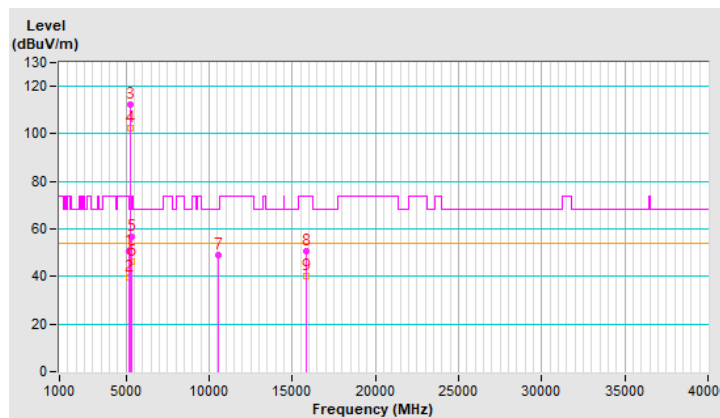


RF Mode	TX 802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	50.8 PK	74.0	-23.2	2.80 V	243	46.0	4.8
2	5150.00	39.8 AV	54.0	-14.2	2.80 V	243	35.0	4.8
3	*5270.00	112.5 PK			2.80 V	243	108.2	4.3
4	*5270.00	102.2 AV			2.80 V	243	97.9	4.3
5	5350.00	56.6 PK	74.0	-17.4	2.80 V	243	52.0	4.6
6	5350.00	46.1 AV	54.0	-7.9	2.80 V	243	41.5	4.6
7	#10540.00	49.2 PK	68.2	-19.0	2.37 V	160	34.8	14.4
8	15810.00	50.6 PK	74.0	-23.4	1.65 V	233	37.0	13.6
9	15810.00	40.3 AV	54.0	-13.7	1.65 V	233	26.7	13.6

Remarks:

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

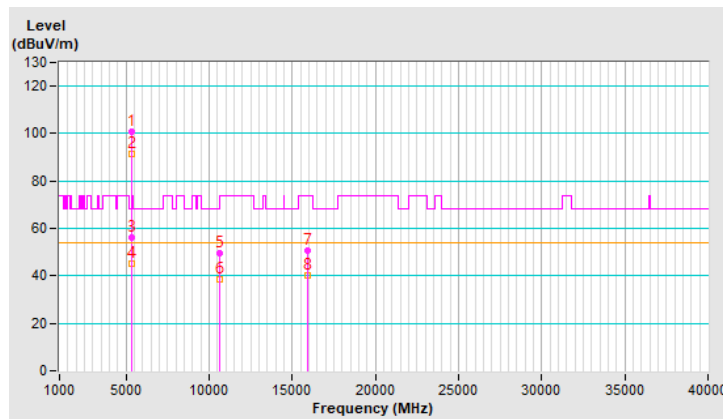


RF Mode	TX 802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	100.6 PK			1.08 H	298	96.2	4.4
2	*5310.00	91.3 AV			1.08 H	298	86.9	4.4
3	5350.00	56.1 PK	74.0	-17.9	1.08 H	298	51.5	4.6
4	5350.00	45.1 AV	54.0	-8.9	1.08 H	298	40.5	4.6
5	10620.00	49.4 PK	74.0	-24.6	1.88 H	141	35.1	14.3
6	10620.00	38.7 AV	54.0	-15.3	1.88 H	141	24.4	14.3
7	15930.00	50.8 PK	74.0	-23.2	1.62 H	261	36.8	14.0
8	15930.00	40.4 AV	54.0	-13.6	1.62 H	261	26.4	14.0

Remarks:

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

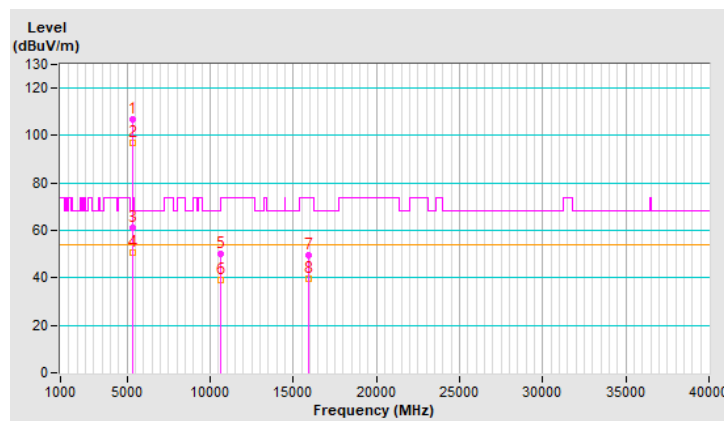


RF Mode	TX 802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	107.0 PK			2.26 V	268	102.6	4.4
2	*5310.00	97.1 AV			2.26 V	268	92.7	4.4
3	5350.00	60.9 PK	74.0	-13.1	2.26 V	268	56.3	4.6
4	5350.00	50.7 AV	54.0	-3.3	2.26 V	268	46.1	4.6
5	10620.00	49.9 PK	74.0	-24.1	2.46 V	174	35.6	14.3
6	10620.00	39.3 AV	54.0	-14.7	2.46 V	174	25.0	14.3
7	15930.00	49.7 PK	74.0	-24.3	1.64 V	237	35.7	14.0
8	15930.00	39.8 AV	54.0	-14.2	1.64 V	237	25.8	14.0

Remarks:

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

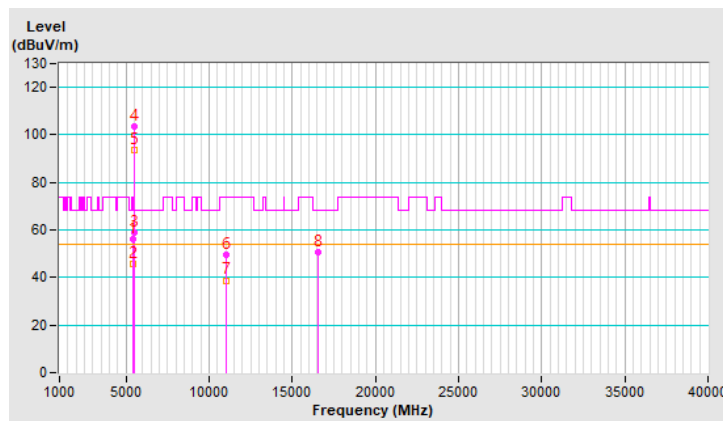


RF Mode	TX 802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	56.2 PK	74.0	-17.8	1.10 H	298	51.4	4.8
2	5460.00	45.7 AV	54.0	-8.3	1.10 H	298	40.9	4.8
3	#5463.16	58.9 PK	68.2	-9.3	1.10 H	298	54.1	4.8
4	*5510.00	103.4 PK			1.10 H	298	98.5	4.9
5	*5510.00	93.6 AV			1.10 H	298	88.7	4.9
6	11020.00	49.4 PK	74.0	-24.6	1.84 H	140	34.7	14.7
7	11020.00	38.8 AV	54.0	-15.2	1.84 H	140	24.1	14.7
8	#16530.00	50.8 PK	68.2	-17.4	1.59 H	245	35.5	15.3

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.

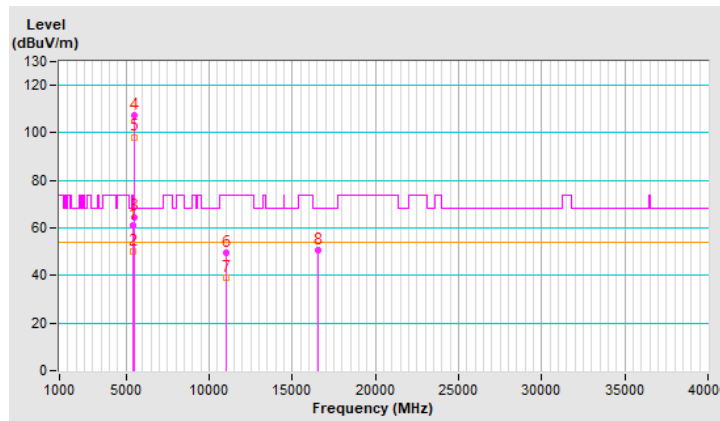


RF Mode	TX 802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	61.1 PK	74.0	-12.9	2.29 V	267	56.3	4.8
2	5460.00	50.0 AV	54.0	-4.0	2.29 V	267	45.2	4.8
3	#5469.02	64.7 PK	68.2	-3.5	2.29 V	267	59.9	4.8
4	*5510.00	107.3 PK			2.29 V	267	102.4	4.9
5	*5510.00	98.3 AV			2.29 V	267	93.4	4.9
6	11020.00	49.5 PK	74.0	-24.5	2.45 V	156	34.8	14.7
7	11020.00	39.0 AV	54.0	-15.0	2.45 V	156	24.3	14.7
8	#16530.00	50.5 PK	68.2	-17.7	1.67 V	220	35.2	15.3

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.

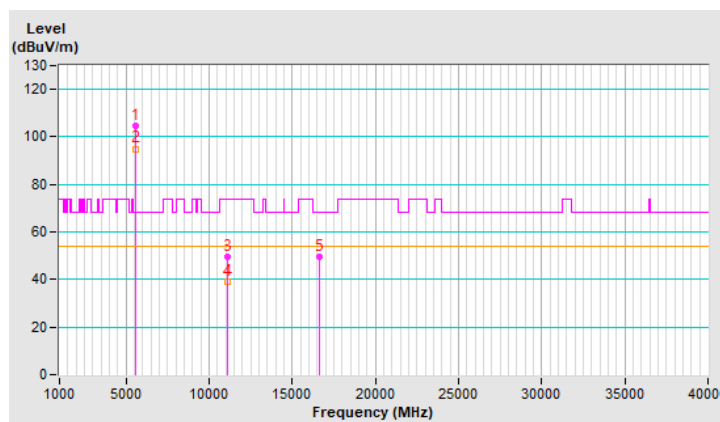


RF Mode	TX 802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	104.8 PK			1.19 H	130	100.0	4.8
2	*5550.00	95.0 AV			1.19 H	130	90.2	4.8
3	11100.00	49.6 PK	74.0	-24.4	1.92 H	124	35.1	14.5
4	11100.00	39.3 AV	54.0	-14.7	1.92 H	124	24.8	14.5
5	#16650.00	49.8 PK	68.2	-18.4	1.57 H	252	33.5	16.3

Remarks:

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

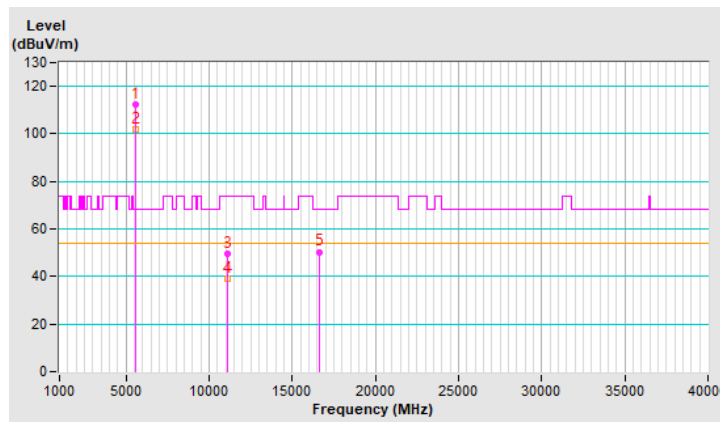


RF Mode	TX 802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	112.2 PK			2.81 V	247	107.4	4.8
2	*5550.00	102.1 AV			2.81 V	247	97.3	4.8
3	11100.00	49.6 PK	74.0	-24.4	2.47 V	170	35.1	14.5
4	11100.00	38.9 AV	54.0	-15.1	2.47 V	170	24.4	14.5
5	#16650.00	50.4 PK	68.2	-17.8	1.69 V	223	34.1	16.3

Remarks:

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

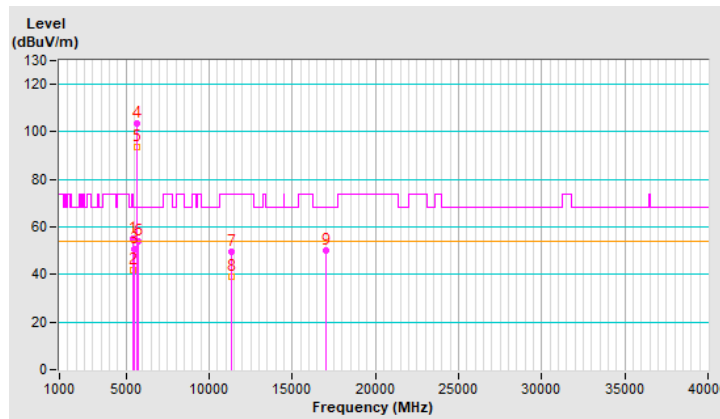


RF Mode	TX 802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.9 PK	74.0	-19.1	1.10 H	115	50.1	4.8
2	5460.00	41.7 AV	54.0	-12.3	1.10 H	115	36.9	4.8
3	#5470.00	50.9 PK	68.2	-17.3	1.10 H	115	46.1	4.8
4	*5670.00	103.4 PK			1.10 H	115	98.5	4.9
5	*5670.00	93.6 AV			1.10 H	115	88.7	4.9
6	#5725.00	54.0 PK	68.2	-14.2	1.10 H	115	49.1	4.9
7	11340.00	49.4 PK	74.0	-24.6	1.89 H	129	34.1	15.3
8	11340.00	39.3 AV	54.0	-14.7	1.89 H	129	24.0	15.3
9	#17010.00	50.1 PK	68.2	-18.1	1.65 H	248	31.8	18.3

Remarks:

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

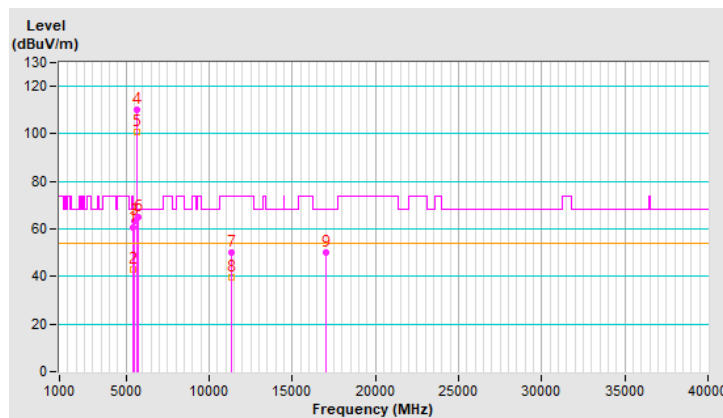


RF Mode	TX 802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.8 PK	74.0	-13.2	2.04 V	19	56.0	4.8
2	5460.00	43.1 AV	54.0	-10.9	2.04 V	19	38.3	4.8
3	#5470.00	63.3 PK	68.2	-4.9	2.04 V	19	58.5	4.8
4	*5670.00	110.1 PK			2.04 V	19	105.2	4.9
5	*5670.00	100.9 AV			2.04 V	19	96.0	4.9
6	#5725.00	65.0 PK	68.2	-3.2	2.04 V	19	60.1	4.9
7	11340.00	50.1 PK	74.0	-23.9	2.35 V	166	34.8	15.3
8	11340.00	39.5 AV	54.0	-14.5	2.35 V	166	24.2	15.3
9	#17010.00	50.3 PK	68.2	-17.9	1.62 V	229	32.0	18.3

Remarks:

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

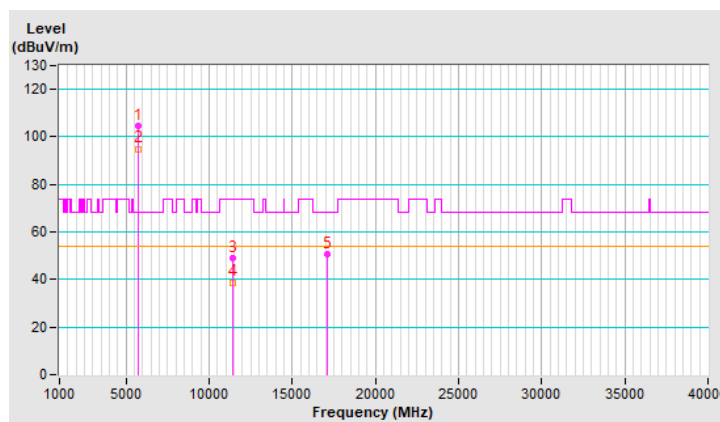


RF Mode	TX 802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	104.4 PK			1.15 H	125	99.6	4.8
2	*5710.00	95.0 AV			1.15 H	125	90.2	4.8
3	11420.00	49.2 PK	74.0	-24.8	1.85 H	140	33.9	15.3
4	11420.00	38.8 AV	54.0	-15.2	1.85 H	140	23.5	15.3
5	#17130.00	50.7 PK	68.2	-17.5	1.66 H	242	32.4	18.3

Remarks:

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

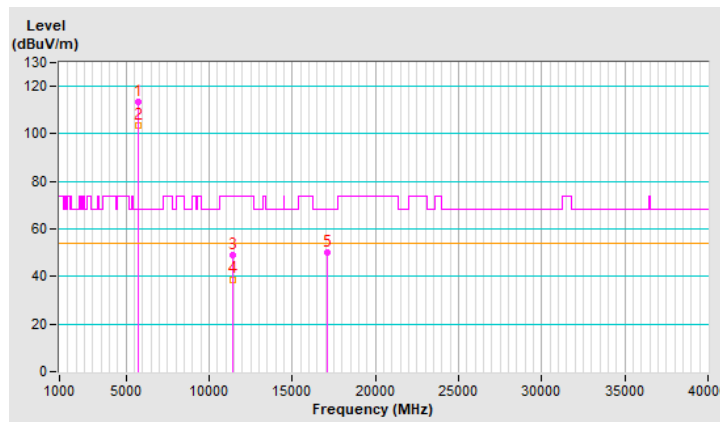


RF Mode	TX 802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	113.6 PK			2.20 V	260	108.8	4.8
2	*5710.00	103.4 AV			2.20 V	260	98.6	4.8
3	11420.00	49.1 PK	74.0	-24.9	2.43 V	153	33.8	15.3
4	11420.00	38.8 AV	54.0	-15.2	2.43 V	153	23.5	15.3
5	#17130.00	50.0 PK	68.2	-18.2	1.67 V	234	31.7	18.3

Remarks:

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

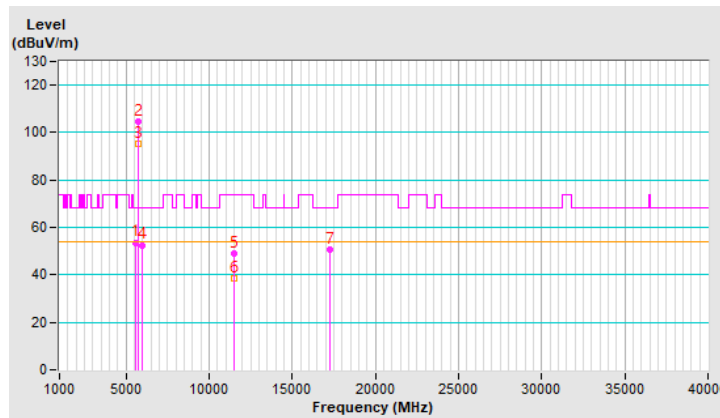


RF Mode	TX 802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5577.67	53.7 PK	68.2	-14.5	1.14 H	123	48.9	4.8
2	*5755.00	104.7 PK			1.14 H	123	99.6	5.1
3	*5755.00	95.1 AV			1.14 H	123	90.0	5.1
4	#5949.61	52.6 PK	68.2	-15.6	1.14 H	123	47.1	5.5
5	11510.00	48.8 PK	74.0	-25.2	1.95 H	141	33.7	15.1
6	11510.00	38.6 AV	54.0	-15.4	1.95 H	141	23.5	15.1
7	#17265.00	50.5 PK	68.2	-17.7	1.62 H	261	32.1	18.4

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.

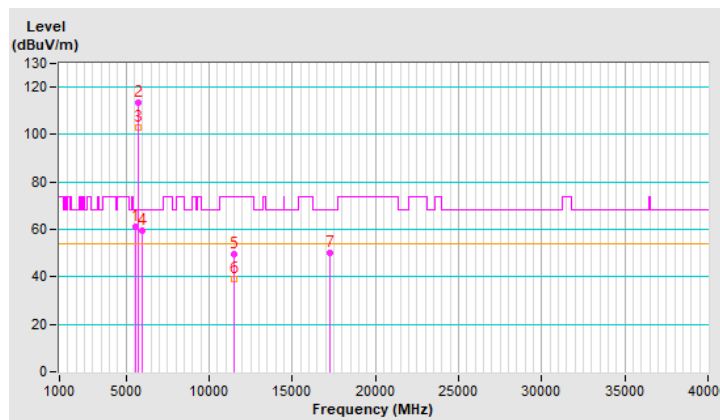


RF Mode	TX 802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5566.63	60.9 PK	68.2	-7.3	2.25 V	266	56.1	4.8
2	*5755.00	113.3 PK			2.25 V	266	108.2	5.1
3	*5755.00	103.1 AV			2.25 V	266	98.0	5.1
4	#5945.69	59.7 PK	68.2	-8.5	2.25 V	266	54.2	5.5
5	11510.00	49.5 PK	74.0	-24.5	2.46 V	172	34.4	15.1
6	11510.00	39.2 AV	54.0	-14.8	2.46 V	172	24.1	15.1
7	#17265.00	50.1 PK	68.2	-18.1	1.62 V	216	31.7	18.4

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.

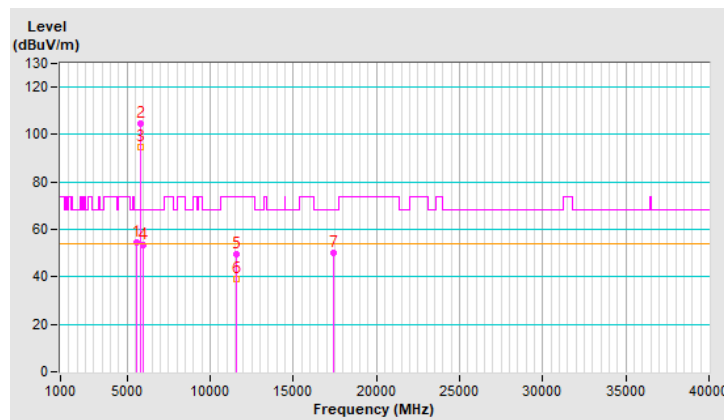


RF Mode	TX 802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5593.87	54.6 PK	68.2	-13.6	1.10 H	137	49.7	4.9
2	*5795.00	104.7 PK			1.10 H	137	99.5	5.2
3	*5795.00	94.8 AV			1.10 H	137	89.6	5.2
4	#5974.27	53.6 PK	68.2	-14.6	1.10 H	137	48.1	5.5
5	11590.00	49.7 PK	74.0	-24.3	1.92 H	123	34.6	15.1
6	11590.00	39.1 AV	54.0	-14.9	1.92 H	123	24.0	15.1
7	#17385.00	50.2 PK	68.2	-18.0	1.59 H	268	31.0	19.2

Remarks:

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

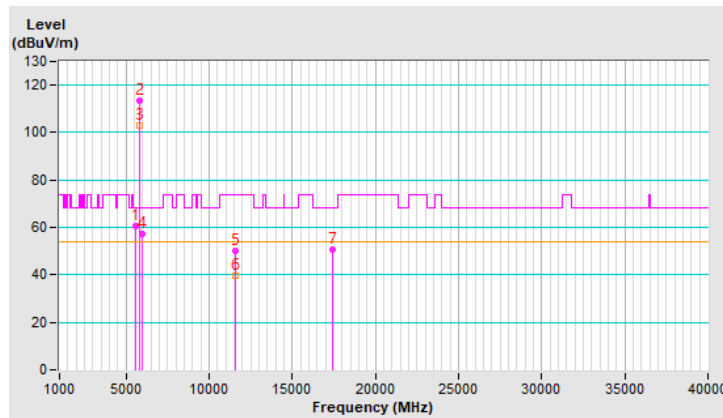


RF Mode	TX 802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5591.68	60.6 PK	68.2	-7.6	2.24 V	278	55.7	4.9
2	*5795.00	113.5 PK			2.24 V	278	108.3	5.2
3	*5795.00	103.1 AV			2.24 V	278	97.9	5.2
4	#5973.74	57.3 PK	68.2	-10.9	2.24 V	278	51.8	5.5
5	11590.00	50.0 PK	74.0	-24.0	2.44 V	168	34.9	15.1
6	11590.00	39.4 AV	54.0	-14.6	2.44 V	168	24.3	15.1
7	#17385.00	50.8 PK	68.2	-17.4	1.66 V	209	31.6	19.2

Remarks:

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

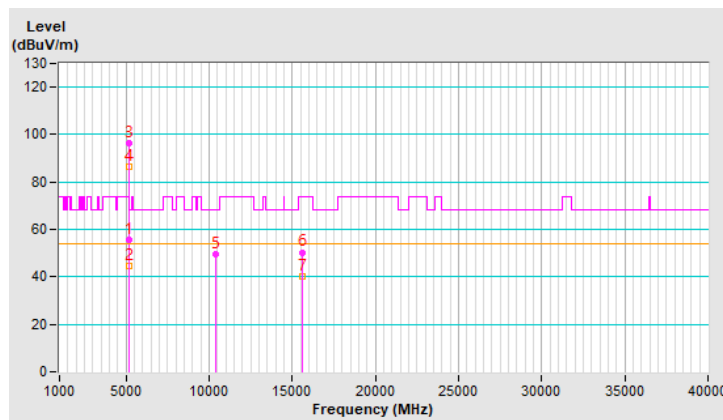


RF Mode	TX 802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	55.5 PK	74.0	-18.5	1.07 H	297	50.7	4.8
2	5150.00	44.8 AV	54.0	-9.2	1.07 H	297	40.0	4.8
3	*5210.00	96.3 PK			1.07 H	297	91.8	4.5
4	*5210.00	86.4 AV			1.07 H	297	81.9	4.5
5	#10420.00	49.4 PK	68.2	-18.8	1.87 H	138	35.1	14.3
6	15630.00	50.4 PK	74.0	-23.6	1.64 H	252	36.1	14.3
7	15630.00	40.3 AV	54.0	-13.7	1.64 H	252	26.0	14.3

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.

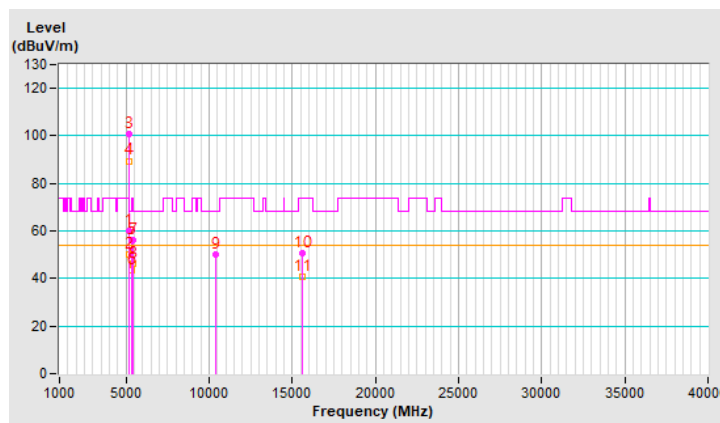


RF Mode	TX 802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	2.80 V	251	55.2	4.8
2	5150.00	50.3 AV	54.0	-3.7	2.80 V	251	45.5	4.8
3	*5210.00	101.0 PK			2.80 V	251	96.5	4.5
4	*5210.00	89.5 AV			2.80 V	251	85.0	4.5
5	5350.00	56.1 PK	74.0	-17.9	2.80 V	251	51.5	4.6
6	5350.00	43.7 AV	54.0	-10.3	2.80 V	251	39.1	4.6
7	5402.02	56.3 PK	74.0	-17.7	2.80 V	251	51.6	4.7
8	5402.02	46.5 AV	54.0	-7.5	2.80 V	251	41.8	4.7
9	#10420.00	50.0 PK	68.2	-18.2	2.47 V	180	35.7	14.3
10	15630.00	50.8 PK	74.0	-23.2	1.73 V	229	36.5	14.3
11	15630.00	40.6 AV	54.0	-13.4	1.73 V	229	26.3	14.3

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.

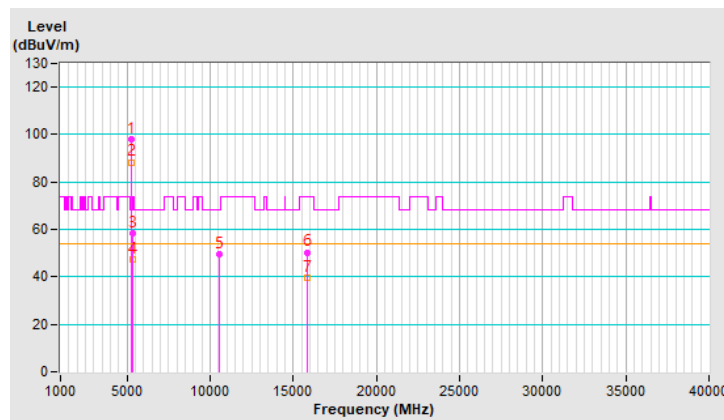


RF Mode	TX 802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	98.0 PK			1.11 H	297	93.7	4.3
2	*5290.00	88.4 AV			1.11 H	297	84.1	4.3
3	5352.00	58.4 PK	74.0	-15.6	1.11 H	297	53.8	4.6
4	5352.00	47.2 AV	54.0	-6.8	1.11 H	297	42.6	4.6
5	#10580.00	49.4 PK	68.2	-18.8	1.91 H	127	35.1	14.3
6	15870.00	50.4 PK	74.0	-23.6	1.67 H	244	36.6	13.8
7	15870.00	39.8 AV	54.0	-14.2	1.67 H	244	26.0	13.8

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.

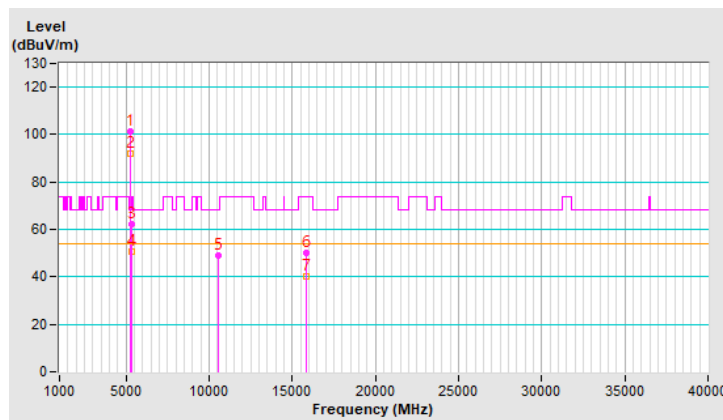


RF Mode	TX 802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	101.5 PK			2.30 V	268	97.2	4.3
2	*5290.00	92.1 AV			2.30 V	268	87.8	4.3
3	5350.00	62.2 PK	74.0	-11.8	2.30 V	268	57.6	4.6
4	5350.00	50.7 AV	54.0	-3.3	2.30 V	268	46.1	4.6
5	#10580.00	49.2 PK	68.2	-19.0	2.47 V	158	34.9	14.3
6	15870.00	50.3 PK	74.0	-23.7	1.70 V	209	36.5	13.8
7	15870.00	40.0 AV	54.0	-14.0	1.70 V	209	26.2	13.8

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.

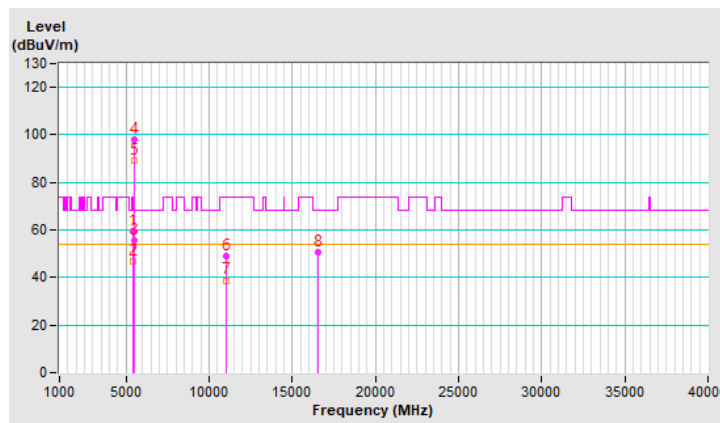


RF Mode	TX 802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5443.24	59.3 PK	74.0	-14.7	1.24 H	300	54.5	4.8
2	5443.24	46.6 AV	54.0	-7.4	1.24 H	300	41.8	4.8
3	#5465.70	55.7 PK	68.2	-12.5	1.24 H	300	50.9	4.8
4	*5530.00	98.1 PK			1.24 H	300	93.3	4.8
5	*5530.00	89.0 AV			1.24 H	300	84.2	4.8
6	11060.00	49.2 PK	74.0	-24.8	1.92 H	126	34.6	14.6
7	11060.00	38.8 AV	54.0	-15.2	1.92 H	126	24.2	14.6
8	#16590.00	50.8 PK	68.2	-17.4	1.58 H	248	34.9	15.9

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.

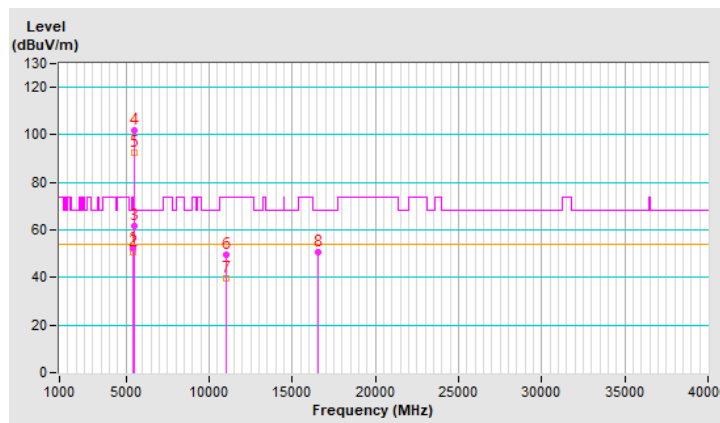


RF Mode	TX 802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	5457.20	52.3 PK	74.0	-21.7	2.14 V	241	47.5	4.8
2	5457.20	50.9 AV	54.0	-3.1	2.14 V	241	46.1	4.8
3	#5462.70	61.7 PK	68.2	-6.5	2.14 V	241	56.9	4.8
4	*5530.00	102.0 PK			2.14 V	241	97.2	4.8
5	*5530.00	92.3 AV			2.14 V	241	87.5	4.8
6	11060.00	49.8 PK	74.0	-24.2	2.37 V	161	35.2	14.6
7	11060.00	39.4 AV	54.0	-14.6	2.37 V	161	24.8	14.6
8	#16590.00	50.5 PK	68.2	-17.7	1.65 V	226	34.6	15.9

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.

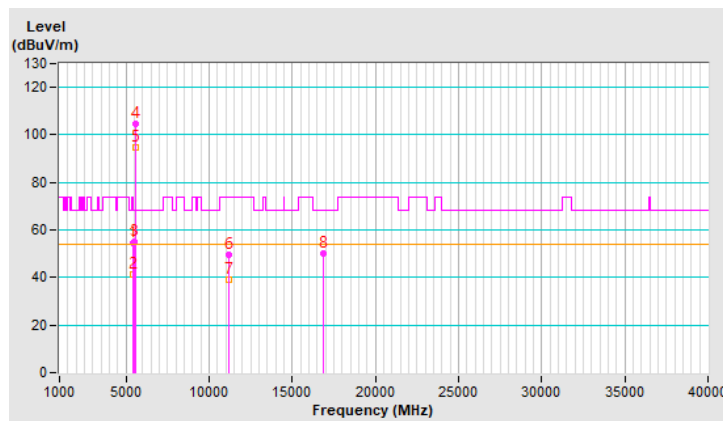


RF Mode	TX 802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.5 PK	74.0	-19.5	1.26 H	287	49.7	4.8
2	5460.00	41.2 AV	54.0	-12.8	1.26 H	287	36.4	4.8
3	#5470.00	55.1 PK	68.2	-13.1	1.26 H	287	50.3	4.8
4	*5610.00	104.4 PK			1.26 H	287	99.5	4.9
5	*5610.00	94.8 AV			1.26 H	287	89.9	4.9
6	11220.00	49.7 PK	74.0	-24.3	1.94 H	131	35.0	14.7
7	11220.00	39.0 AV	54.0	-15.0	1.94 H	131	24.3	14.7
8	#16830.00	50.1 PK	68.2	-18.1	1.62 H	258	32.9	17.2

Remarks:

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

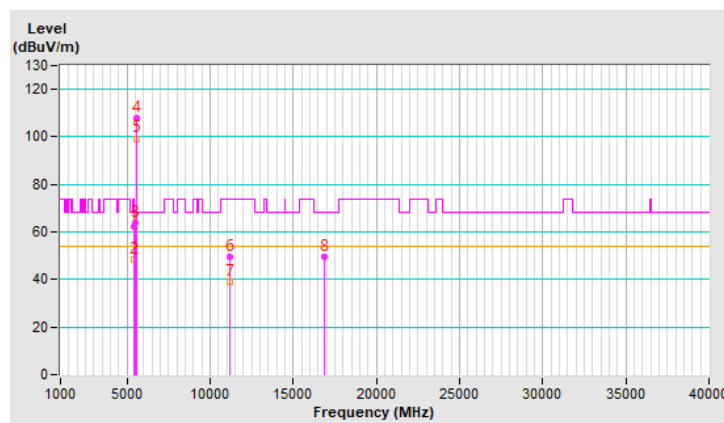


RF Mode	TX 802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	62.2 PK	74.0	-11.8	2.11 V	11	57.4	4.8
2	5460.00	48.6 AV	54.0	-5.4	2.11 V	11	43.8	4.8
3	#5470.00	64.1 PK	68.2	-4.1	2.11 V	11	59.3	4.8
4	*5610.00	108.0 PK			2.11 V	11	103.1	4.9
5	*5610.00	99.4 AV			2.11 V	11	94.5	4.9
6	11220.00	49.4 PK	74.0	-24.6	2.40 V	164	34.7	14.7
7	11220.00	38.9 AV	54.0	-15.1	2.40 V	164	24.2	14.7
8	#16830.00	49.7 PK	68.2	-18.5	1.62 V	240	32.5	17.2

Remarks:

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

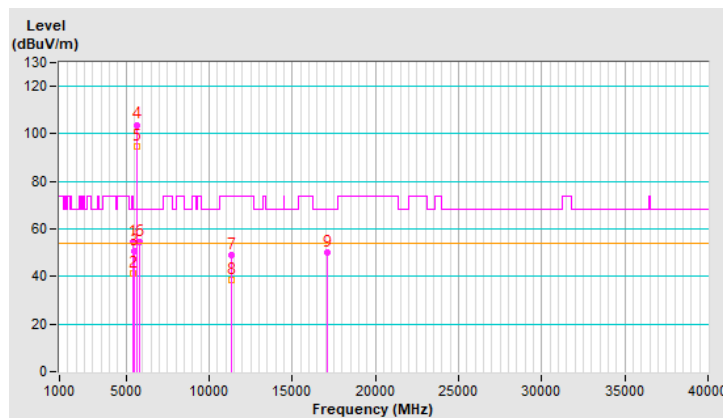


RF Mode	TX 802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.6 PK	74.0	-19.4	1.24 H	294	49.8	4.8
2	5460.00	41.5 AV	54.0	-12.5	1.24 H	294	36.7	4.8
3	#5470.00	50.6 PK	68.2	-17.6	1.24 H	294	45.8	4.8
4	*5690.00	103.8 PK			1.24 H	294	99.1	4.7
5	*5690.00	94.5 AV			1.24 H	294	89.8	4.7
6	#5850.00	54.4 PK	68.2	-13.8	1.24 H	294	49.1	5.3
7	11380.00	48.9 PK	74.0	-25.1	1.89 H	139	33.5	15.4
8	11380.00	38.6 AV	54.0	-15.4	1.89 H	139	23.2	15.4
9	#17070.00	50.2 PK	68.2	-18.0	1.64 H	270	31.8	18.4

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.

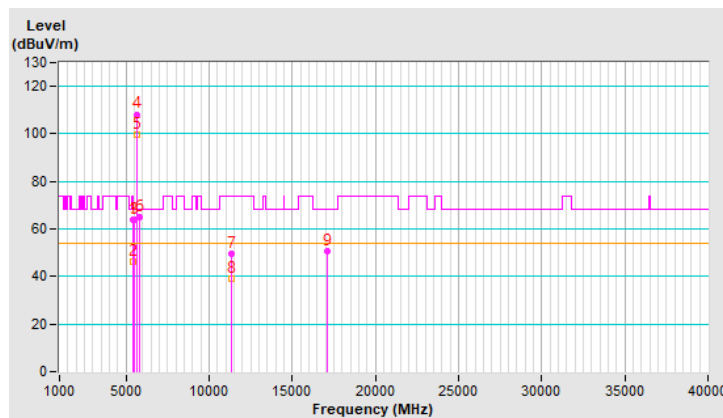


RF Mode	TX 802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.7 PK	74.0	-10.3	1.92 V	15	58.9	4.8
2	5460.00	46.5 AV	54.0	-7.5	1.92 V	15	41.7	4.8
3	#5470.00	63.8 PK	68.2	-4.4	1.92 V	15	59.0	4.8
4	*5690.00	108.2 PK			1.92 V	15	103.5	4.7
5	*5690.00	99.6 AV			1.92 V	15	94.9	4.7
6	#5850.00	64.8 PK	68.2	-3.4	1.92 V	15	59.5	5.3
7	11380.00	49.4 PK	74.0	-24.6	2.37 V	156	34.0	15.4
8	11380.00	38.9 AV	54.0	-15.1	2.37 V	156	23.5	15.4
9	#17070.00	50.9 PK	68.2	-17.3	1.72 V	226	32.5	18.4

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.

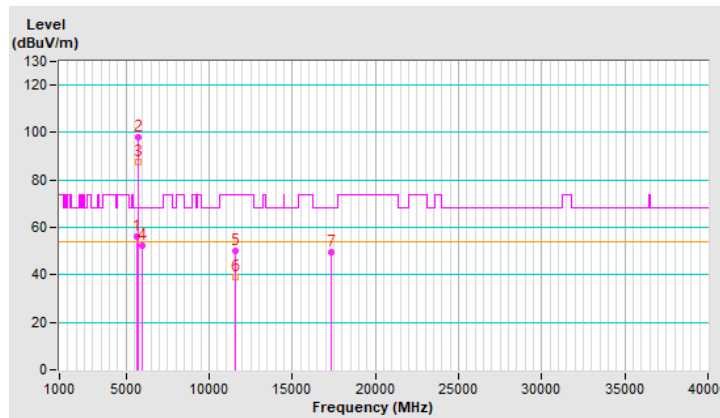


RF Mode	TX 802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5648.04	56.3 PK	68.2	-11.9	1.13 H	111	51.4	4.9
2	*5775.00	98.2 PK			1.13 H	111	93.0	5.2
3	*5775.00	87.4 AV			1.13 H	111	82.2	5.2
4	#6005.29	52.5 PK	68.2	-15.7	1.13 H	111	47.1	5.4
5	11550.00	49.9 PK	74.0	-24.1	1.93 H	125	34.9	15.0
6	11550.00	39.3 AV	54.0	-14.7	1.93 H	125	24.3	15.0
7	#17325.00	49.5 PK	68.2	-18.7	1.67 H	264	30.7	18.8

Remarks:

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

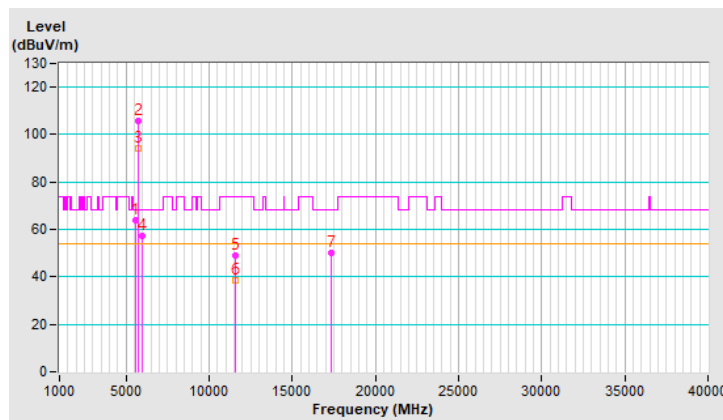


RF Mode	TX 802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	#5597.31	63.9 PK	68.2	-4.3	2.25 V	265	59.0	4.9
2	*5775.00	105.8 PK			2.25 V	265	100.6	5.2
3	*5775.00	94.4 AV			2.25 V	265	89.2	5.2
4	#5939.78	57.2 PK	68.2	-11.0	2.25 V	265	51.7	5.5
5	11550.00	48.9 PK	74.0	-25.1	2.37 V	162	33.9	15.0
6	11550.00	38.7 AV	54.0	-15.3	2.37 V	162	23.7	15.0
7	#17325.00	49.9 PK	68.2	-18.3	1.65 V	231	31.1	18.8

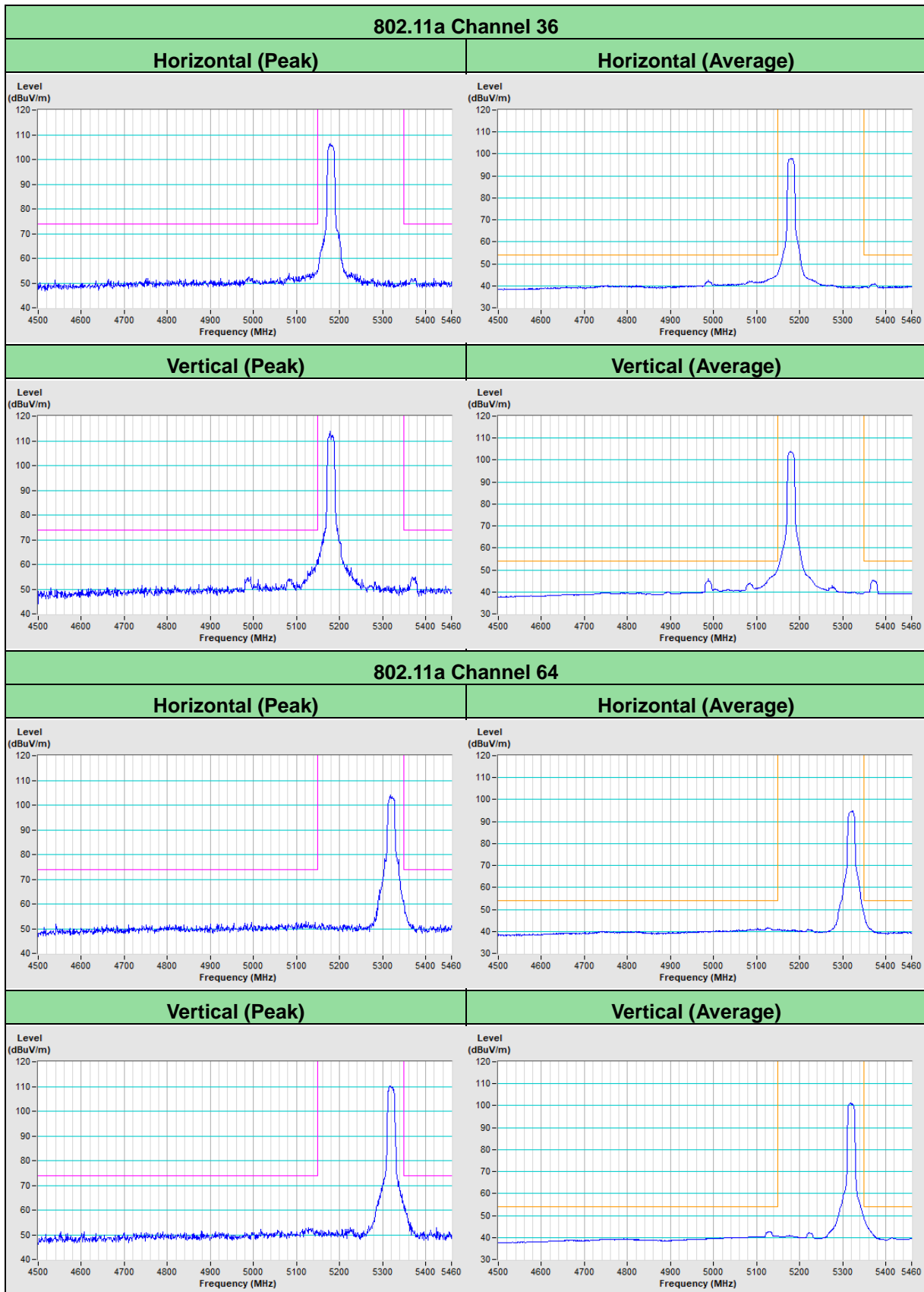
Remarks:

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



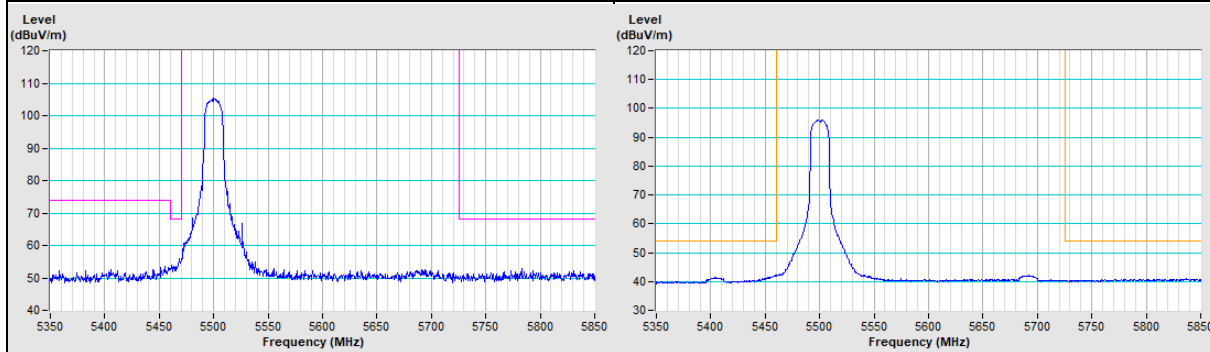


Plot of Band Edge

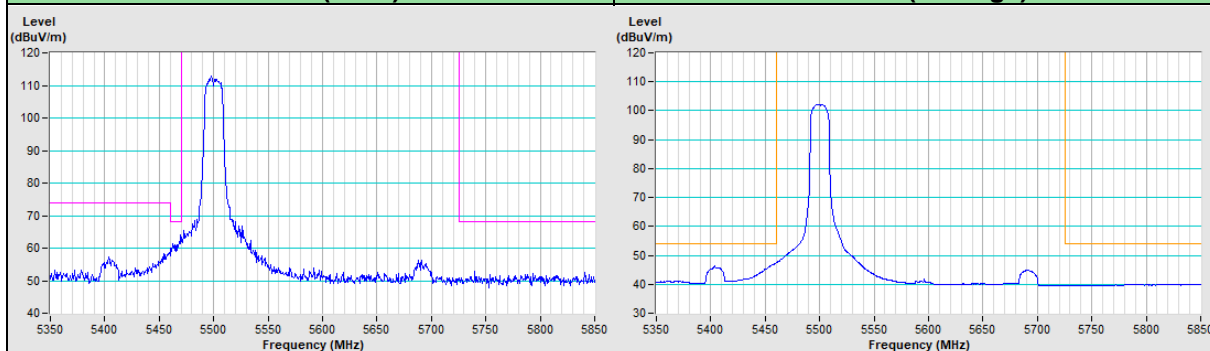


802.11a Channel 100

Horizontal (Peak) Horizontal (Average)

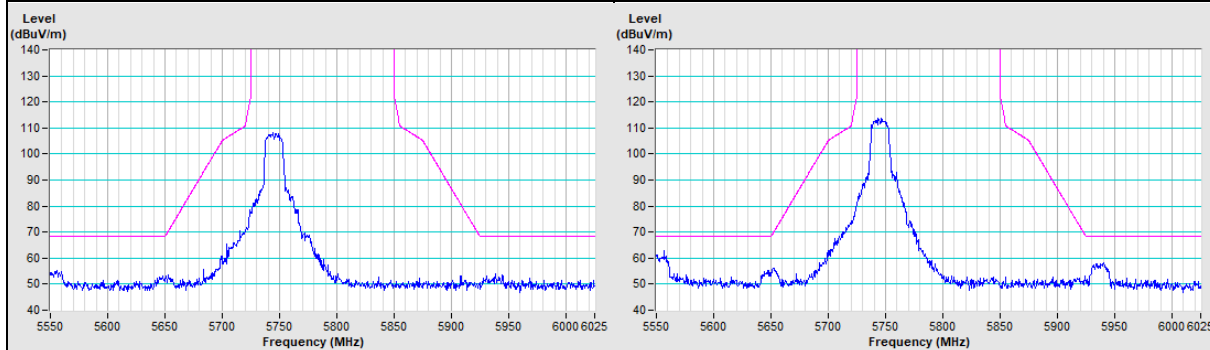


Vertical (Peak) Vertical (Average)



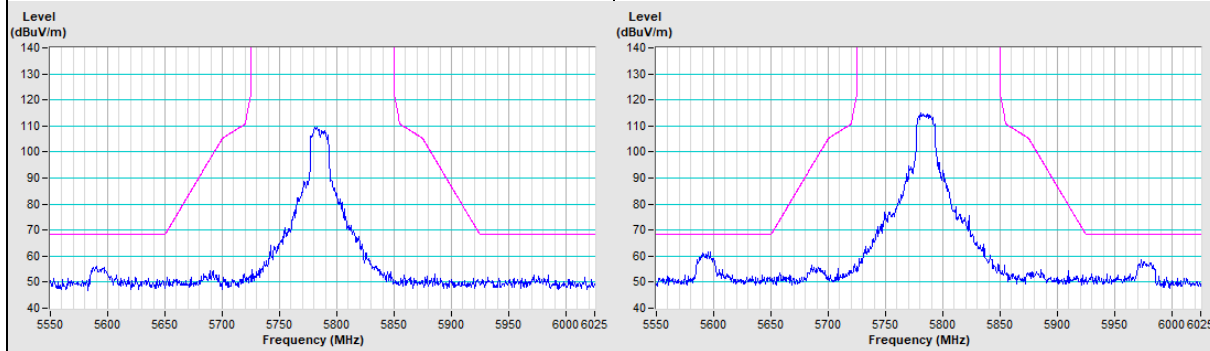
802.11a Channel 149

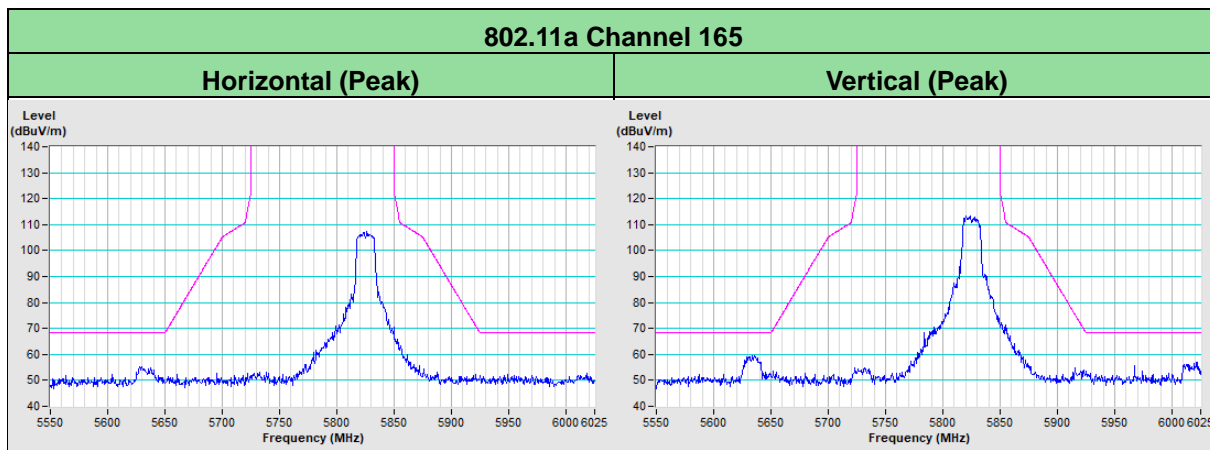
Horizontal (Peak) Vertical (Peak)



802.11a Channel 157

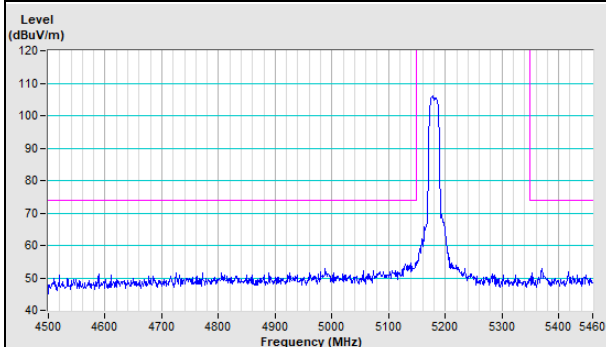
Horizontal (Peak) Vertical (Peak)



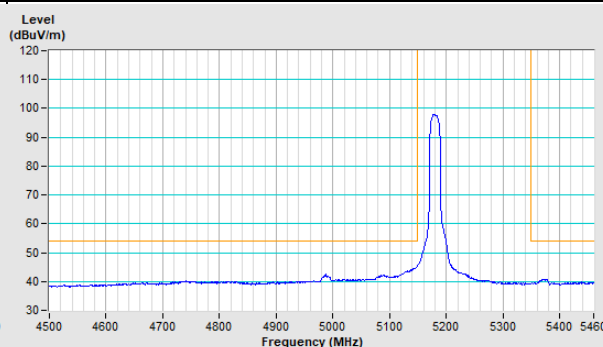


802.11ac (VHT20) Channel 36

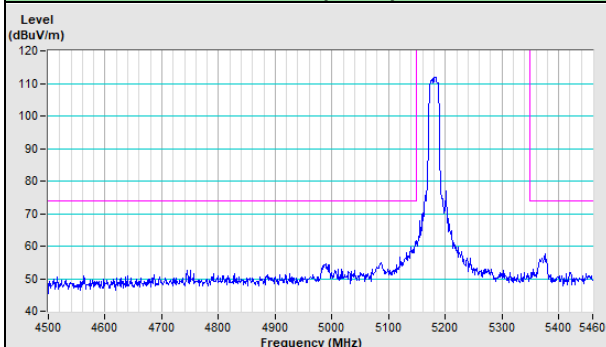
Horizontal (Peak)



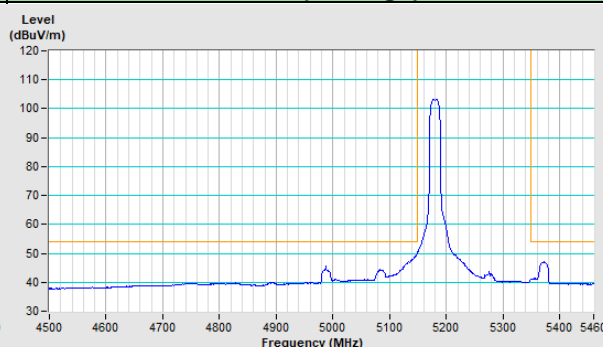
Horizontal (Average)



Vertical (Peak)

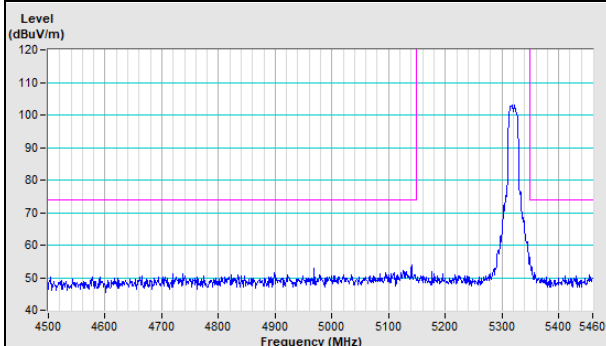


Vertical (Average)

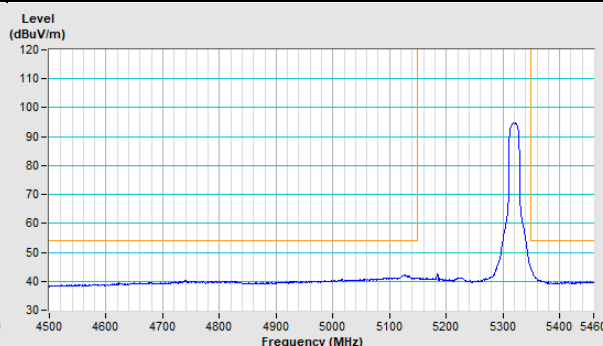


802.11ac (VHT20) Channel 64

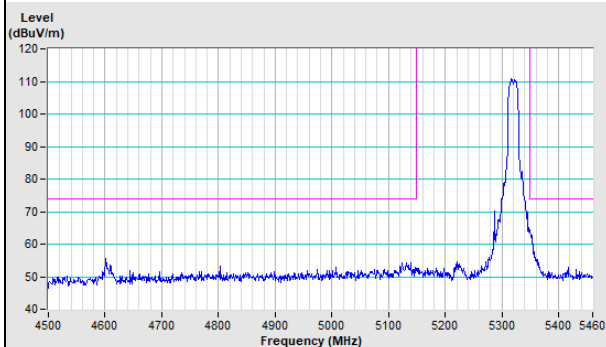
Horizontal (Peak)



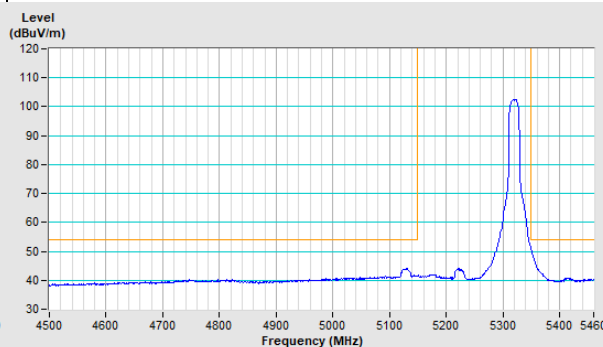
Horizontal (Average)



Vertical (Peak)

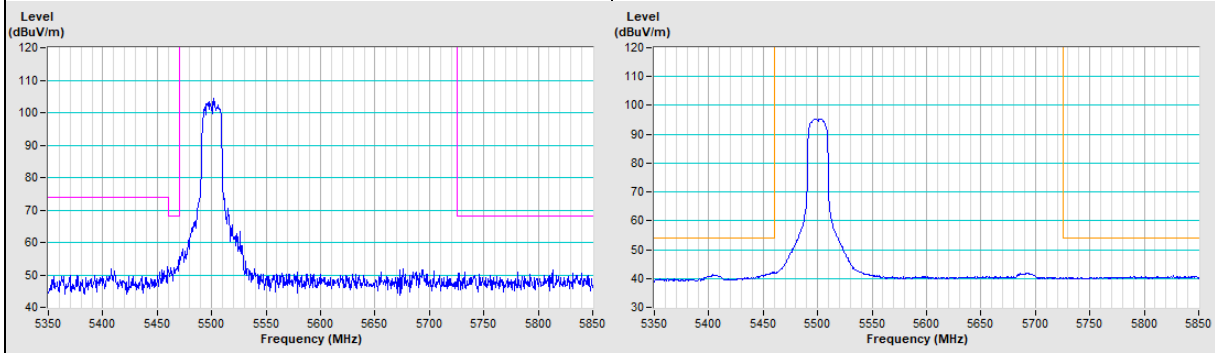


Vertical (Average)

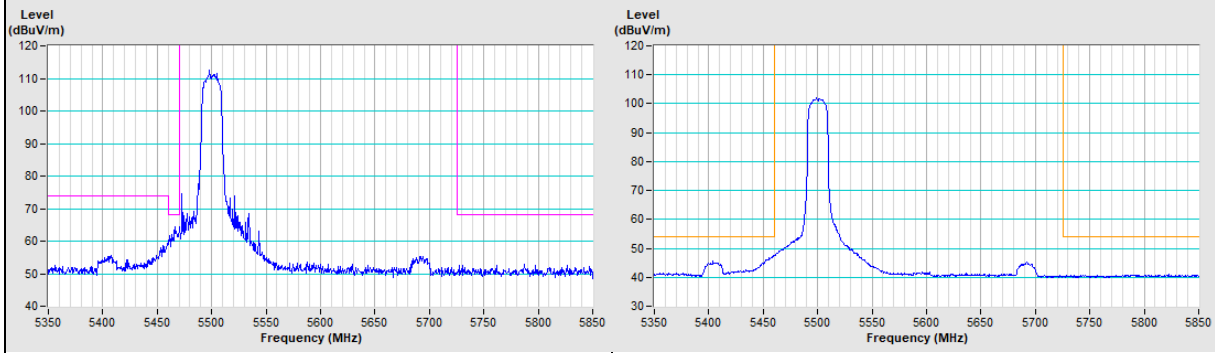


802.11ac (VHT20) Channel 100

Horizontal (Peak)	Horizontal (Average)
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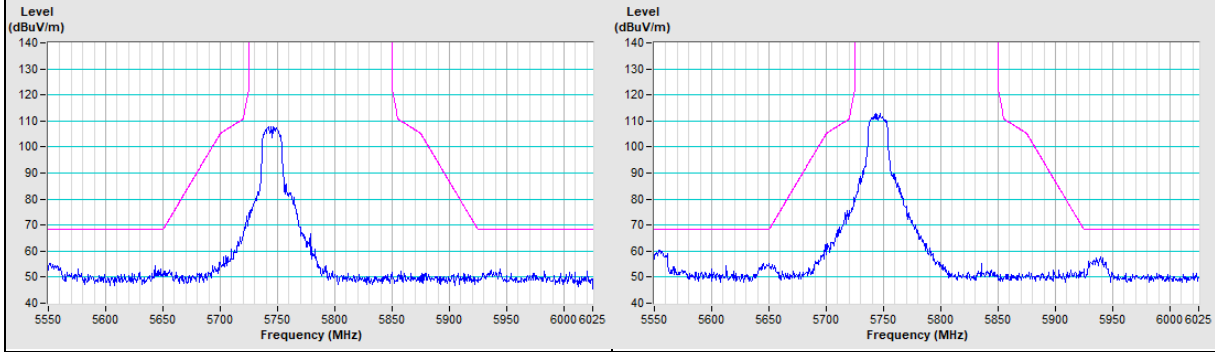


Vertical (Peak)	Vertical (Average)
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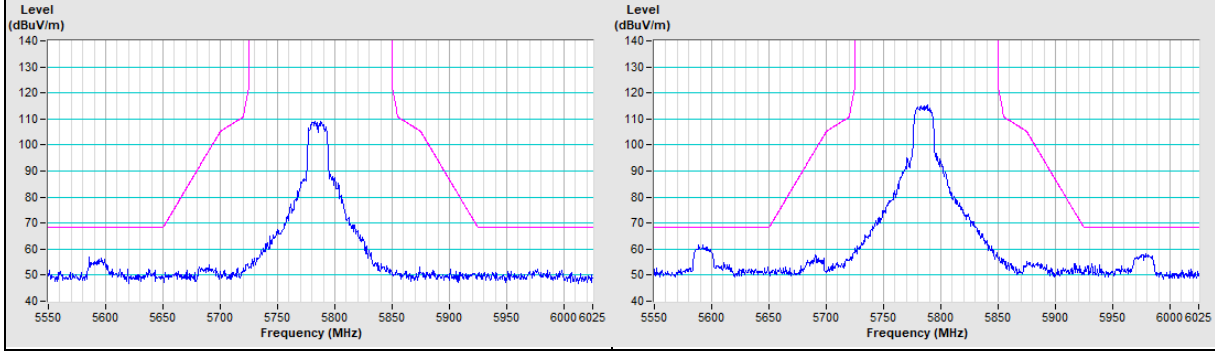
802.11ac (VHT20) Channel 149

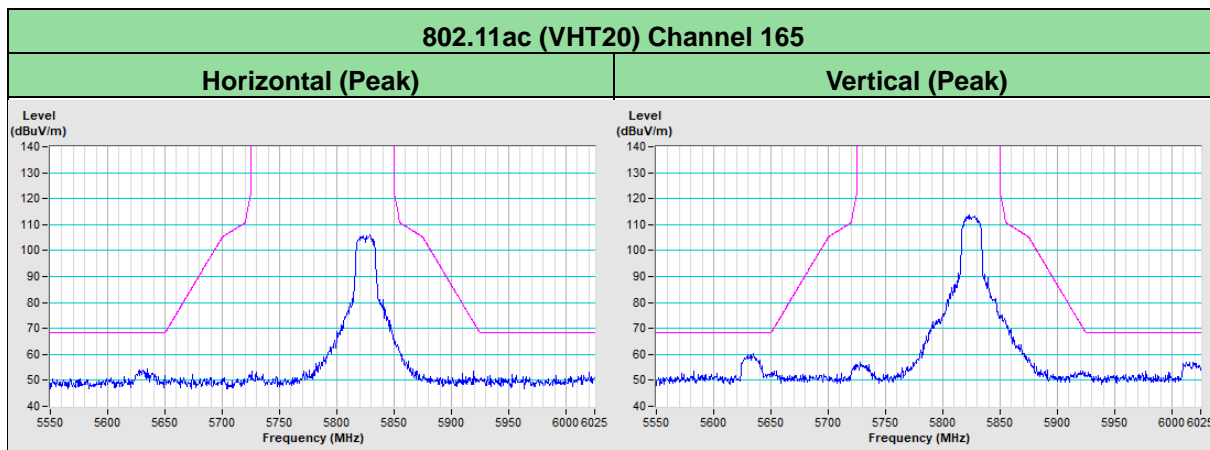
Horizontal (Peak)	Vertical (Peak)
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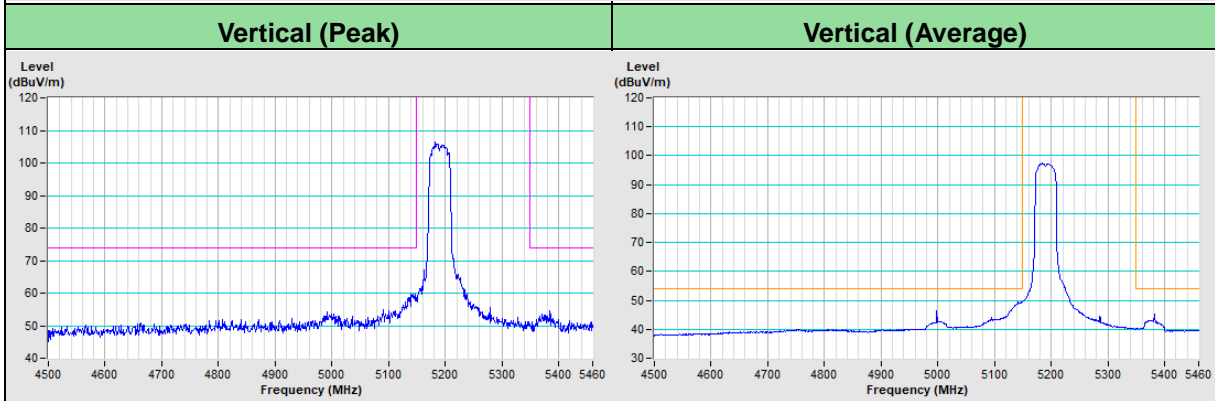
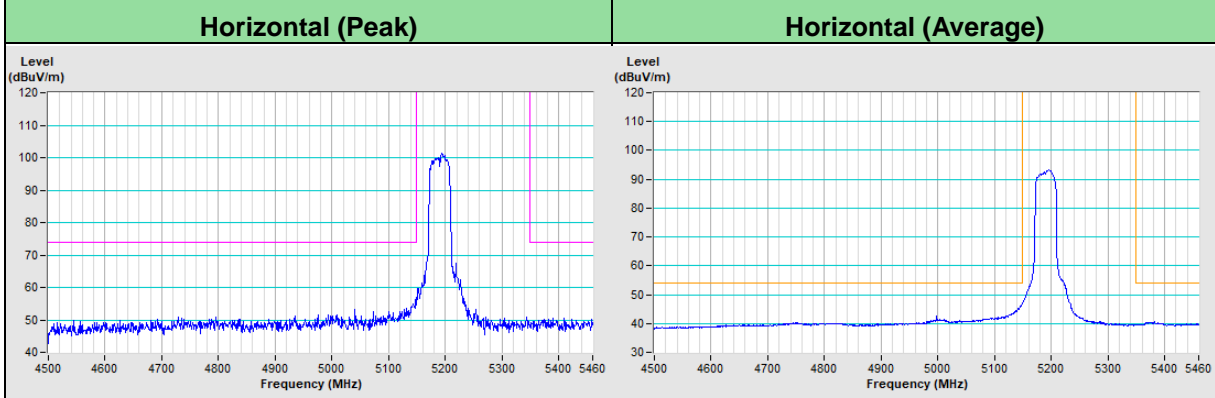
802.11ac (VHT20) Channel 157

Horizontal (Peak)	Vertical (Peak)
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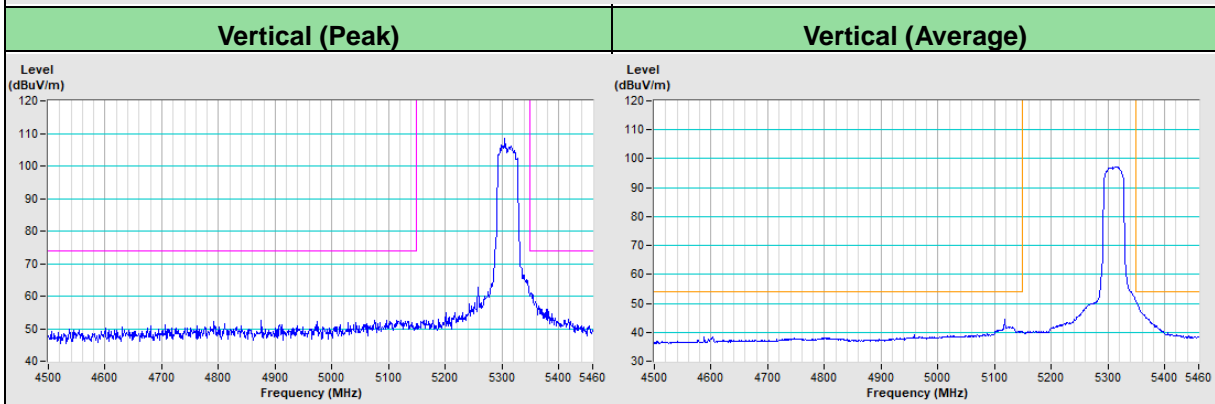
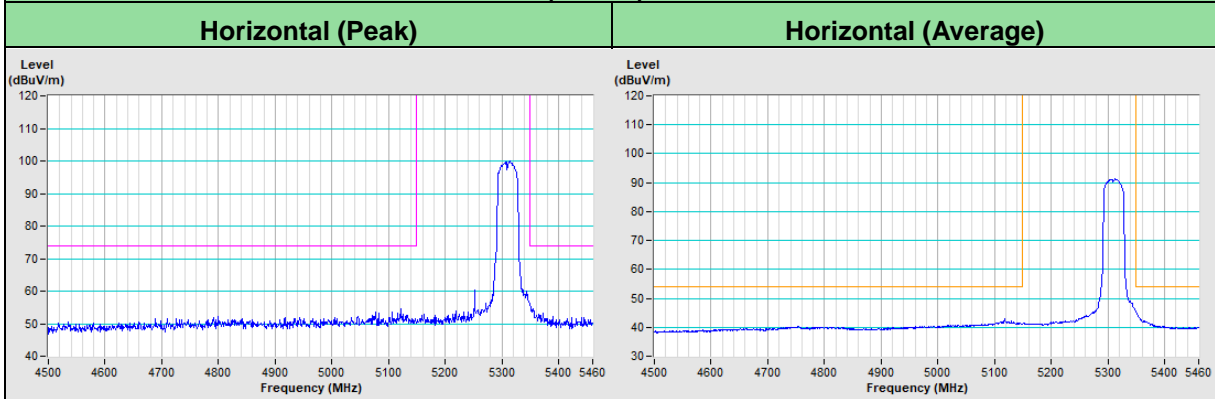




802.11ac (VHT40) Channel 38

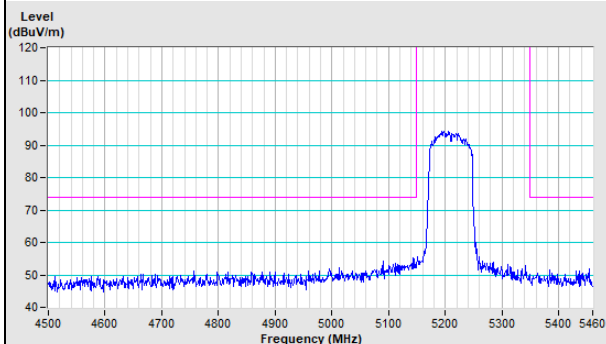


802.11ac (VHT40) Channel 62

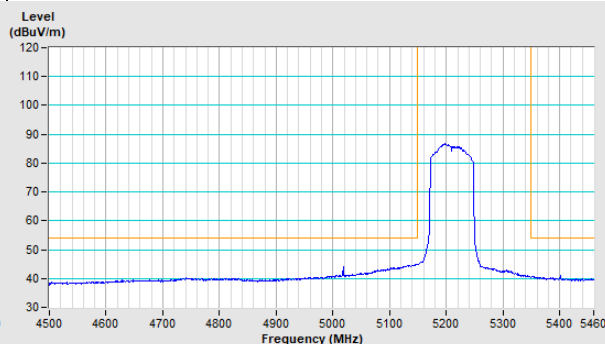


802.11ac (VHT80) Channel 42

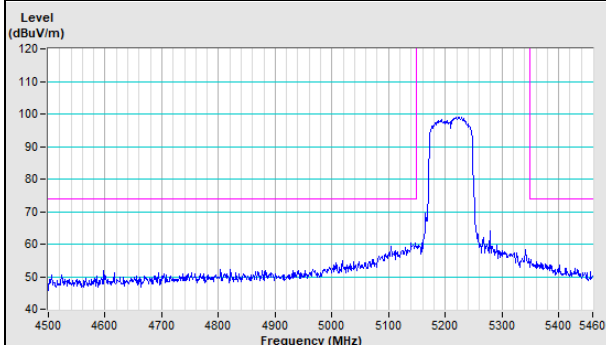
Horizontal (Peak)



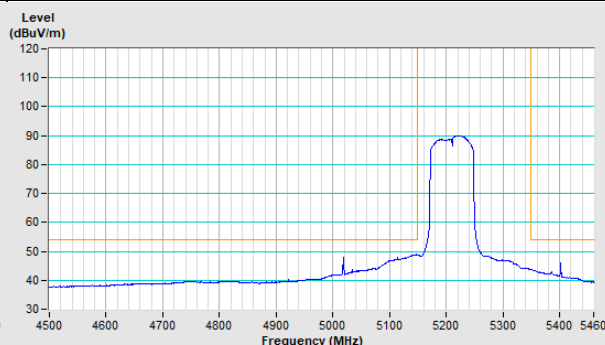
Horizontal (Average)



Vertical (Peak)

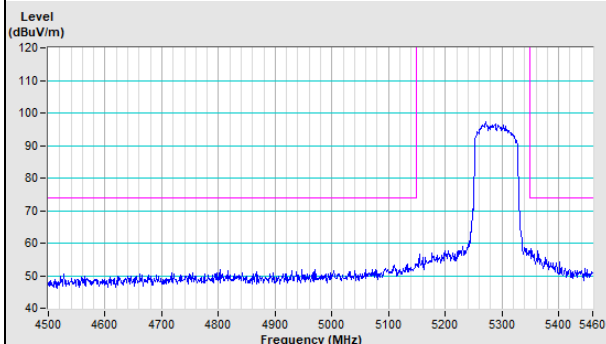


Vertical (Average)

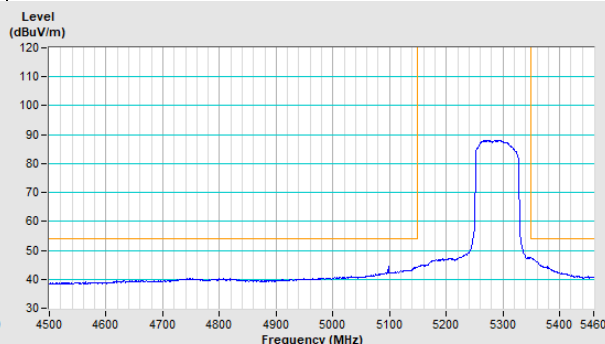


802.11ac (VHT80) Channel 58

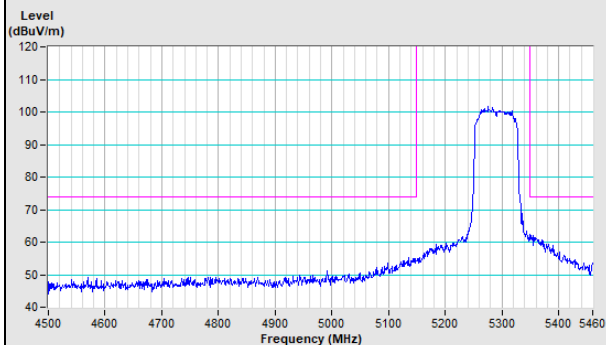
Horizontal (Peak)



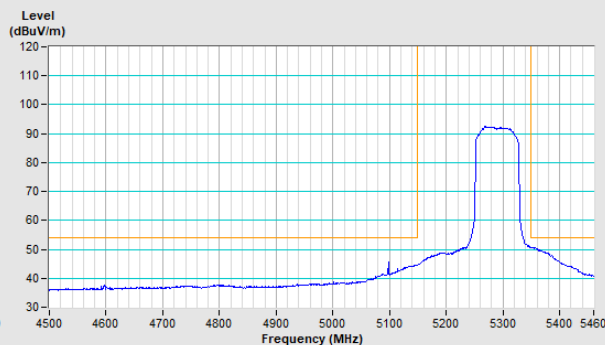
Horizontal (Average)



Vertical (Peak)

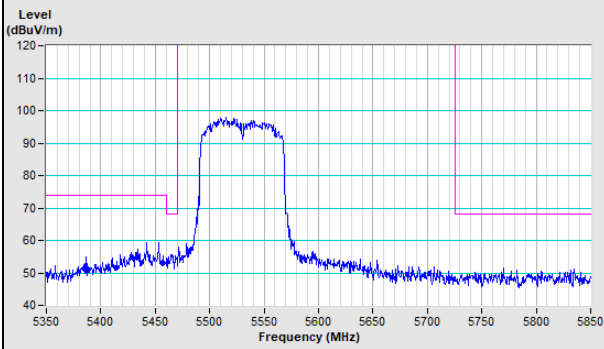


Vertical (Average)

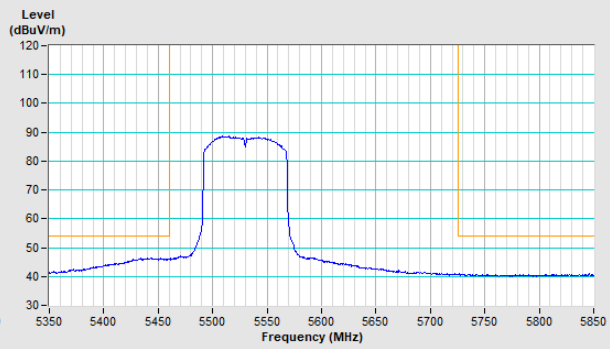


802.11ac (VHT80) Channel 106

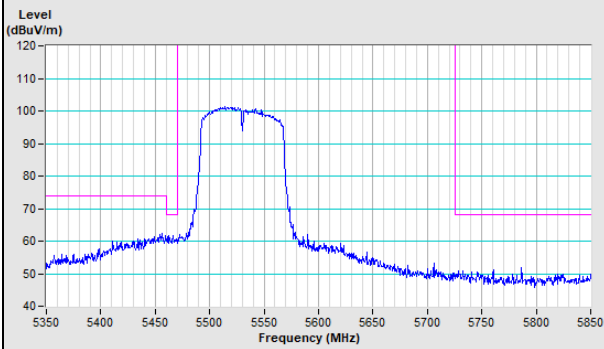
Horizontal (Peak)



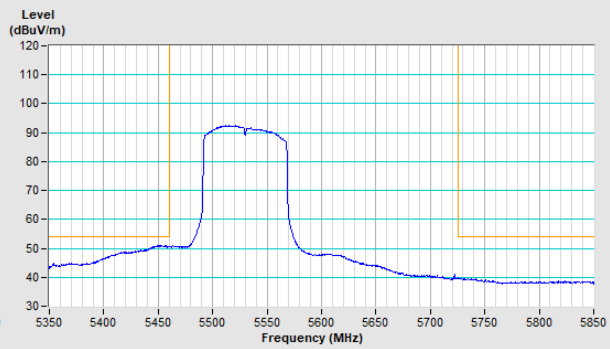
Horizontal (Average)



Vertical (Peak)

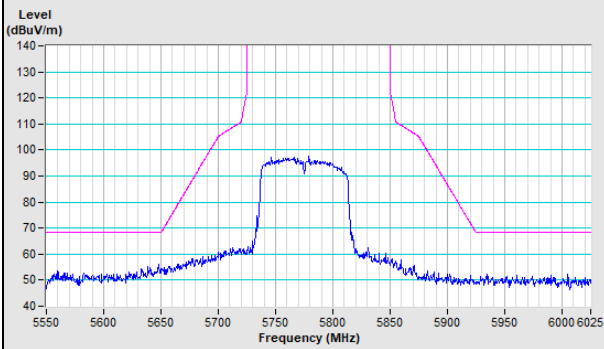


Vertical (Average)

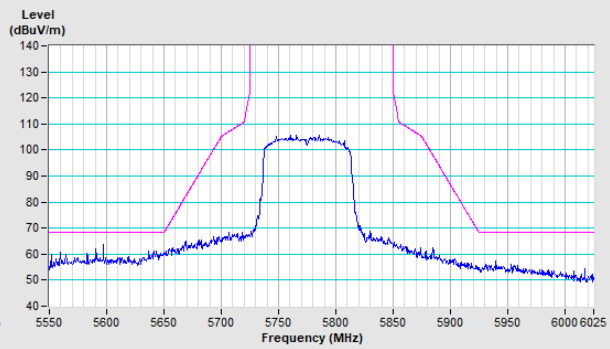


802.11ac (VHT80) Channel 155

Horizontal (Peak)



Vertical (Peak)



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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