

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFARBU-WTW-P22020531-3

FCC ID: M72-P030

Test Model: P030

Received Date: 2022/3/17

Test Date: 2022/6/17 ~ 2022/7/1

Issued Date: 2022/8/17

Applicant: Polycom Inc.

Address: 6001 America Center Drive, San Jose, CA 95002, United States

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

Jeremy Lin

, Date:

2022/8/17

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFARBU-WTW-P22020531-3	Original release.	2022/8/17

1 Certificate

Product: Poly TC10
Brand: Poly
Test Model: P030
Sample Status: Engineering sample
Applicant: Polycom Inc.
Test Date: 2022/6/17 ~ 2022/7/1
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure: ANSI C63.10-2013
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	Pass	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	Pass	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 -21.50 dB at 9.02200 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -18.61 dB at 66.17 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.04 dB at 5460.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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) (±)
Occupied Bandwidth	-	±491.896 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.79 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.02 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.01 dB
	18 GHz ~ 40 GHz	1.15 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	Poly TC10
Brand	Poly
Test Model	P030
Status of EUT	Engineering sample
Power Supply Rating	Refer to Note 1
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 150.0 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 : 13.9 mW (11.43 dBm) 5260 ~ 5320 MHz : 11.803 mW (10.72 dBm) 5500 ~ 5720 MHz : 13.183 mW (11.20 dBm) 5745 ~ 5825 MHz : 13.335 mW (11.25 dBm)

Note:

1. The EUT test accessory devices. (Not for sale together)

POE	Brand	Microsemi
	Model	PD-9001GR/AT/AC
	AC Input	100-240VAC, 50/60Hz, 0.67A
	DC Output	55V

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

3. 2.4GHz & 5GHz & BT technology cannot transmit at same time.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Brand	Model	Gain (dBi)											Antenna Type	Connector Type
			2.40 GHz	2.45 GHz	2.50 GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz	5.785 GHz	5.85 GHz		
1	AWAN	ASP6Y-100004	2.59	2.65	2.69	2.72	2.55	2.84	2.73	2.79	2.71	2.54	2.49	PCB	IPEX NGFF
2	Hongbo	260-29106	1.24	1.55	1.14	2.60	2.95	2.69	2.63	2.61	0.60	0.24	0.28	PCB	IPEX4

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report. The maximum antenna gain is chosen for final test.

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

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	Worst Condition: X-axis for 5180 ~ 5320 MHz and Y-axis for 5500 ~ 5825 MHz
EUT Configure Mode:	55Vdc (PoE)

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)/ 802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)/ 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
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
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
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
Frequency Stability	802.11a	36	un-modulation	-
AC Power Conducted Emissions	802.11a	36	BPSK	6Mb/s
Unwanted Emissions below 1 GHz (AWAN Antenna)	802.11a	36	BPSK	6Mb/s
Unwanted Emissions above 1 GHz (AWAN Antenna)	802.11a	36, 40, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
Unwanted Emissions above 1 GHz (Hongbo Antenna)	802.11a	48, 52	BPSK	6Mb/s
	802.11ac (VHT20)	48, 52	BPSK	MCS0
	802.11ac (VHT40)	46, 54	BPSK	MCS0

3.5 Duty Cycle of Test Signal

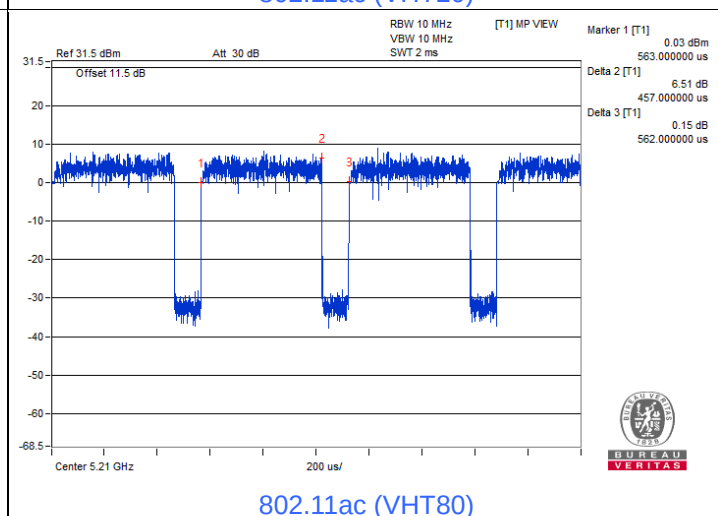
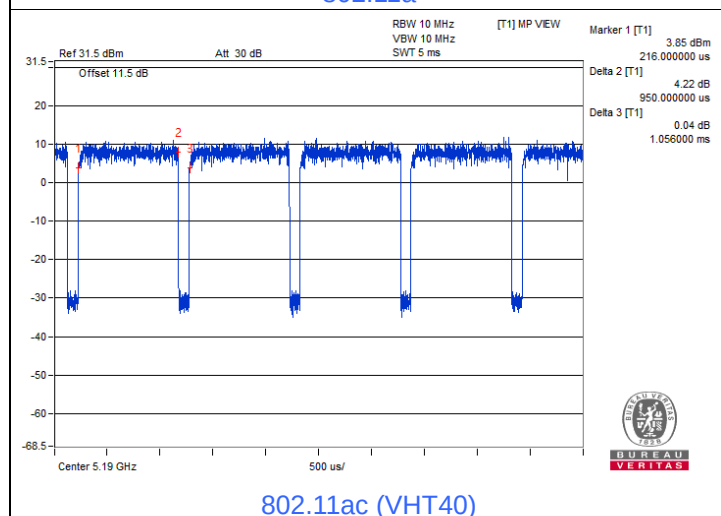
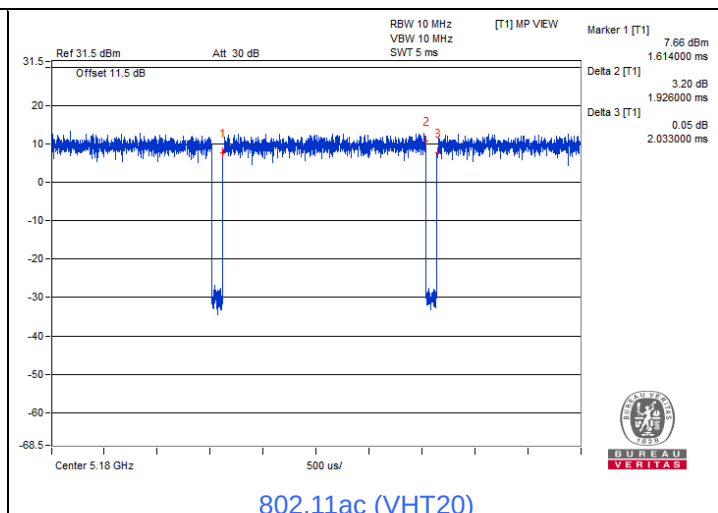
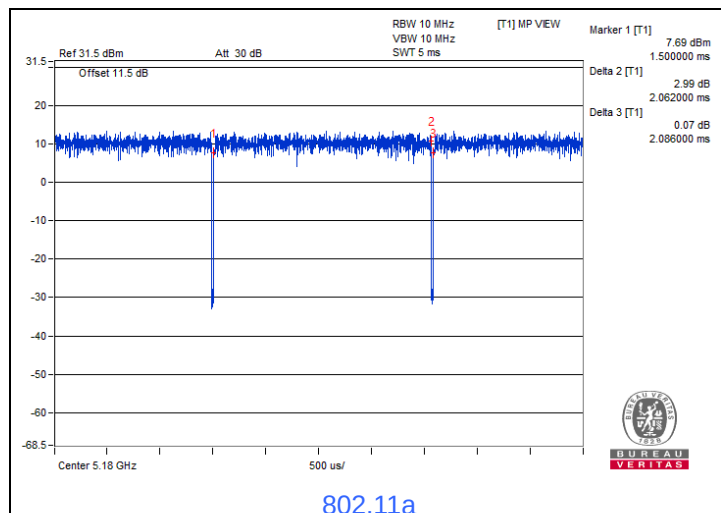
Duty cycle of test signal is $\geq 98\%$, duty factor is not required.
Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $2.062 \text{ ms} / 2.086 \text{ ms} \times 100\% = 98.8\%$

802.11ac (VHT20): Duty cycle = $1.926 \text{ ms} / 2.033 \text{ ms} \times 100\% = 94.7\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.23 \text{ dB}$

802.11ac (VHT40): Duty cycle = $0.95 \text{ ms} / 1.056 \text{ ms} \times 100\% = 90.0\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.46 \text{ dB}$

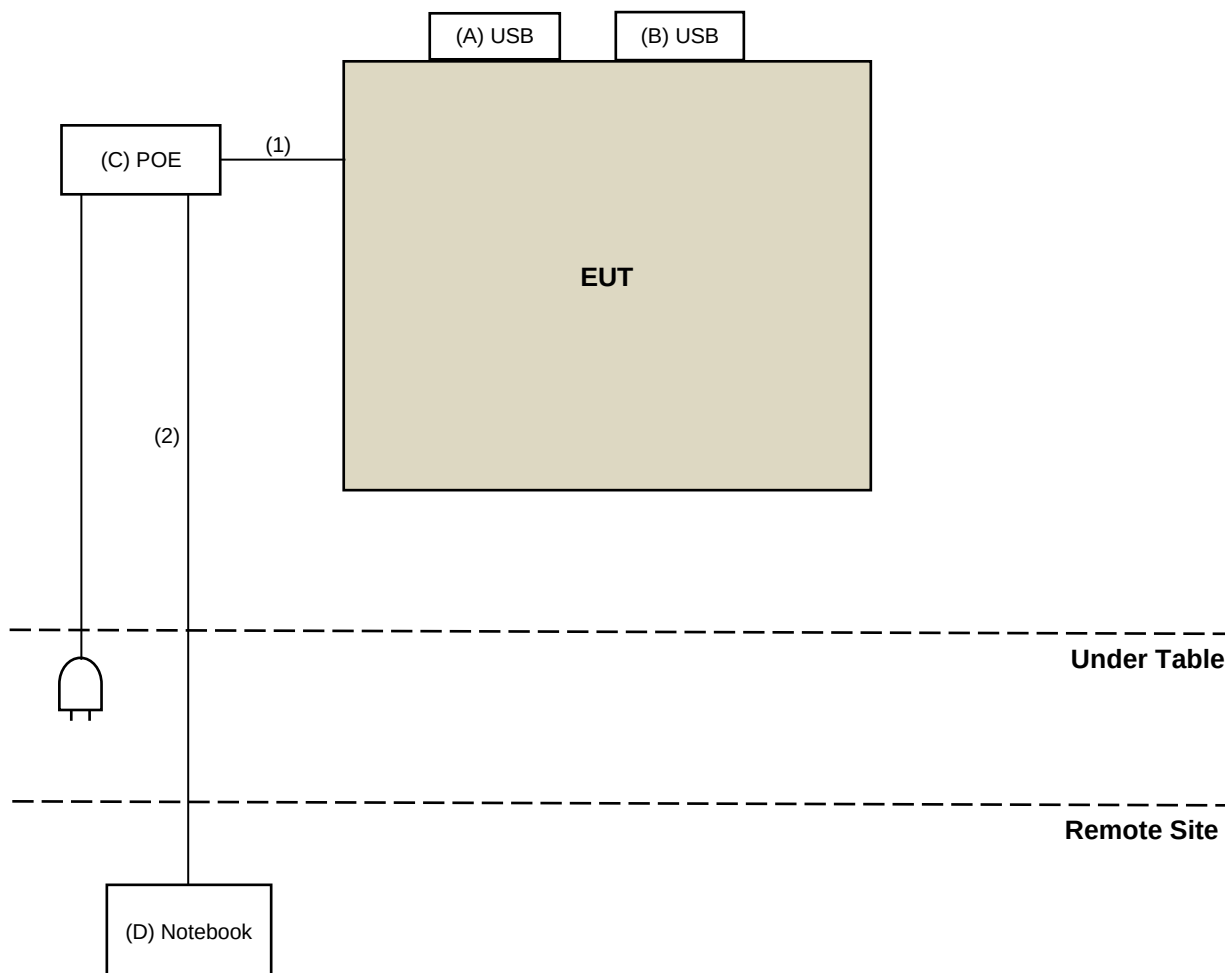
802.11ac (VHT80): Duty cycle = $0.457 \text{ ms} / 0.562 \text{ ms} \times 100\% = 81.3\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.90 \text{ dB}$



3.6 Test Program Used and Operation Descriptions

Controlling software adb_4.2.2 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	USB Flash	Lexar	LJDV100	N/A	N/A	Provided by Lab
B	USB Flash	SanDisk	BM000257950Z	N/A	N/A	Provided by Lab
C	POE	Microsemi	PD-9001GR/AT/AC	WTW220207/025Q4 8N25	N/A	Supplied by applicant
D	NB	DELL	Latitude 5420	RF-051	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	1.5	NO	NO	Supplied by applicant
2	RJ-45 Cable	1	2	NO	NO	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
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

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

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	2022/1/18	2023/1/17
Power sensor Keysight	U2021XA	MY55380009	2022/3/23	2023/3/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Wideband Power Sensor(N1923A) KEYSIGHT	N1923A	MY58020002	2022/1/17	2023/1/16

Notes:

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

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
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/1/3	2023/1/2

Notes:

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

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC LISN R&S	ESH3-Z6	100219	2021/7/25	2022/7/24
		844950/018	2021/7/25	2022/7/24
DC-LISN SCHWARZBECK MESS- ELETRONIK	NNBM 8126G	8126G-069	2021/11/10	2022/11/9
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
LISN R&S	ESH3-Z5	100311	2021/9/7	2022/9/6
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2022/1/15	2023/1/14
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2021/12/3	2022/12/2
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2021/8/20	2022/8/19

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2022/6/29

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB9168	9168-616	2021/10/27	2022/10/26
Loop Antenna TESEQ	HLA 6121	45745	2021/7/21	2022/7/20
Loop Antenna EMCI	EM-6879	269	2021/9/16	2022/9/15
Preamplifier Agilent	310N	187226	2022/6/14	2023/6/13
Pre-amplifier EMCI	EMC001340	980201	2021/9/15	2022/9/14
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
Software BV ADT	ADT_Radiated_V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2021/9/1	2022/8/31
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2022/6/24

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	8	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00143293	2021/11/14	2022/11/13
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2021/10/26	2022/10/25
Pre-Amplifier EMCI	EMC 184045	980116	2021/10/5	2022/10/4
Preamplifier Agilent	83017A	MY39501373	2022/6/14	2023/6/13
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2022/1/15	2023/1/14
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2022/1/15	2023/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2021/9/1	2022/8/31
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2022/6/17 ~ 2022/6/28

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. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 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.	

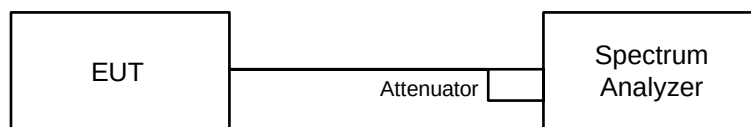
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

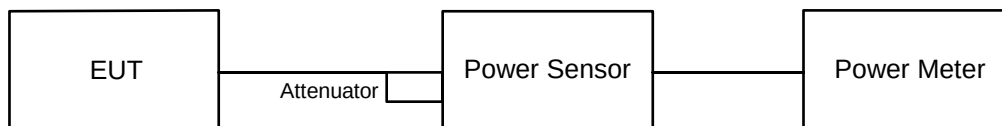


6.1.2 Test Procedure

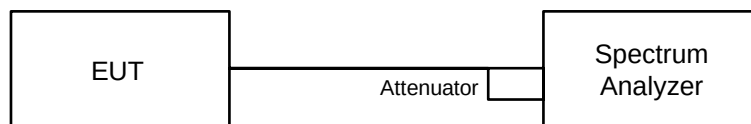
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

Method SA-1

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

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.

For channel straddling:

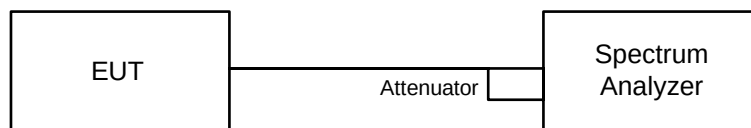
Method SA-2A

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

For specified measurement bandwidth 1 MHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

For specified measurement bandwidth 500 kHz:

Method SA-1

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

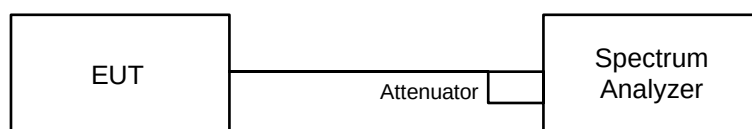
For specified measurement bandwidth 500 kHz:

Method SA-2

- 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

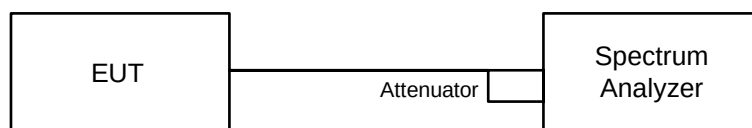


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

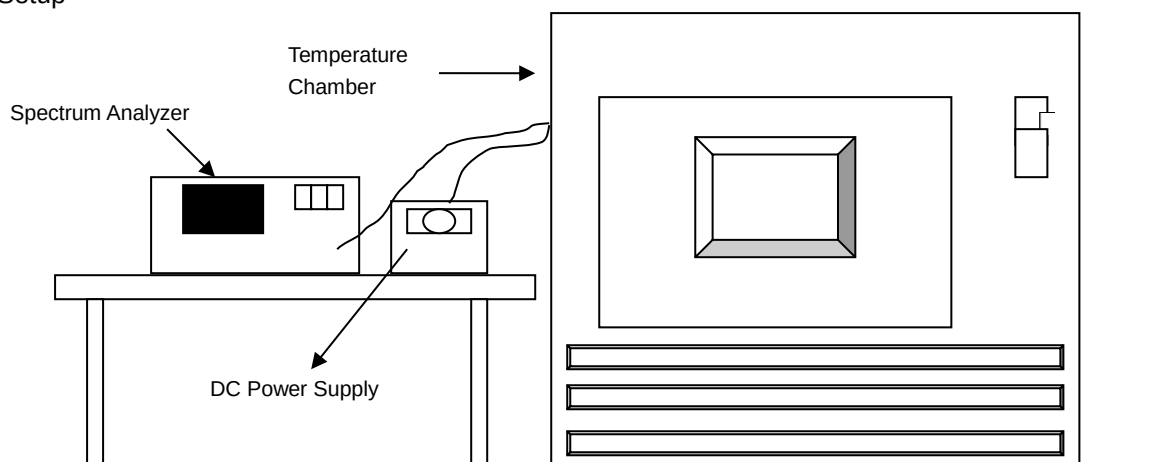


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

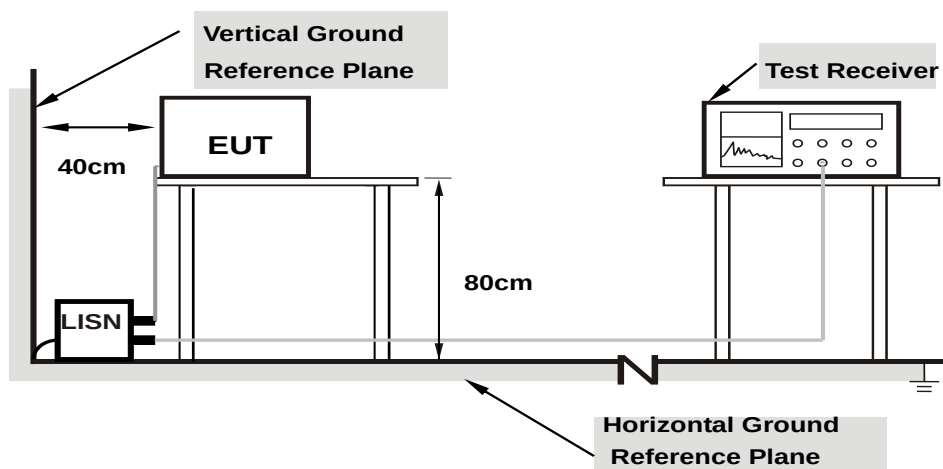


6.6.2 Test Procedure

- 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

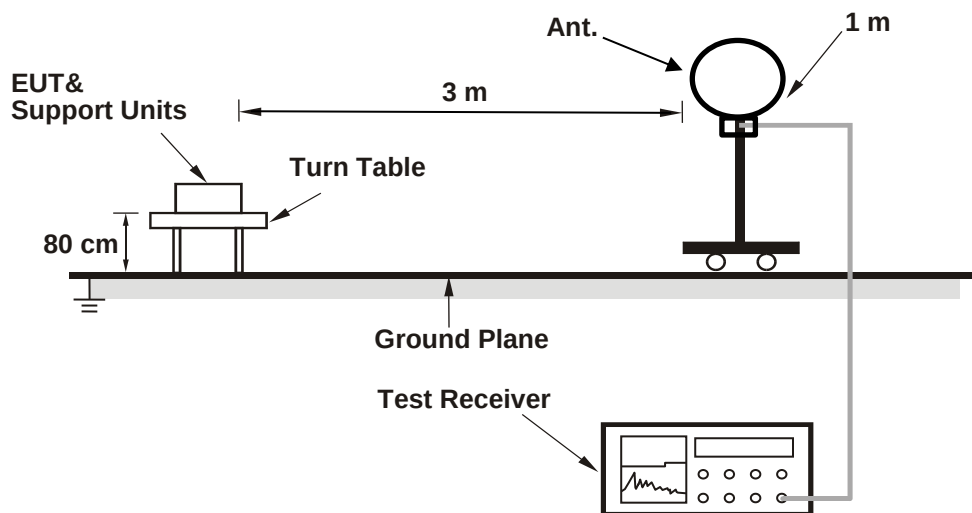
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

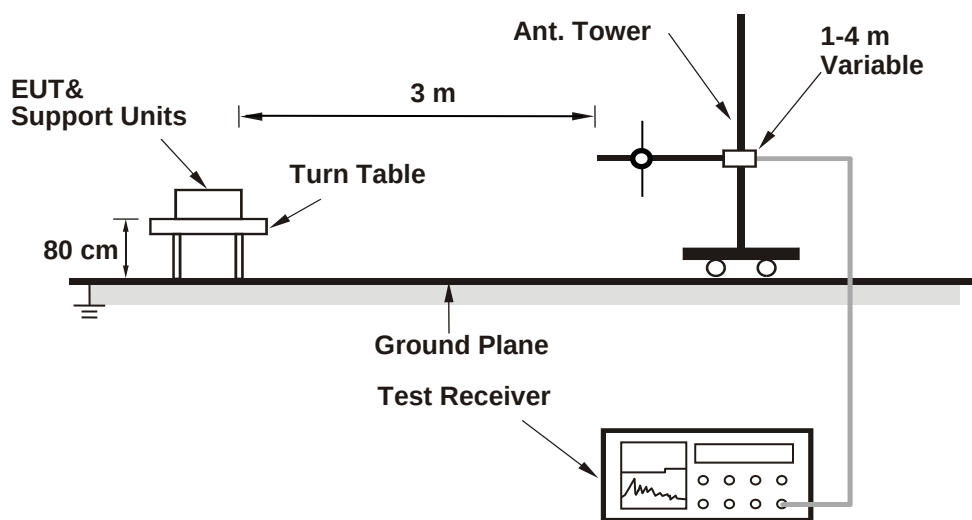
6.8 Unwanted Emissions below 1 GHz

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.

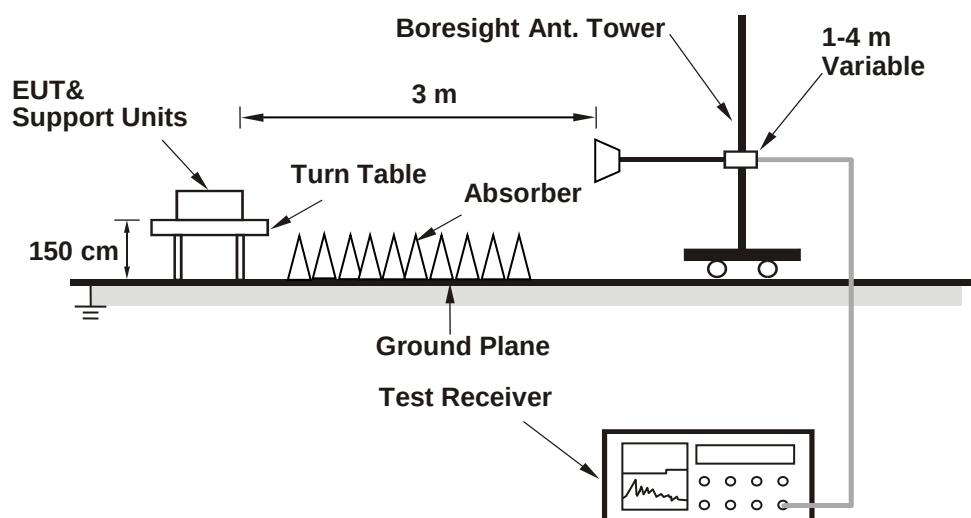
Notes:

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:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	21.7
60	5300	21.63
64	5320	21.52
100	5500	21.63
116	5580	21.59
140	5700	21.7
144 (U-NII-2C)	5720	15.91

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.70	24.36	>	24
60	5300	21.63	24.35	>	24
64	5320	21.52	24.32	>	24
100	5500	21.63	24.35	>	24
116	5580	21.59	24.34	>	24
140	5700	21.70	24.36	>	24
144 (U-NII-2C)	5720	15.91	23.01	<	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	21.93
60	5300	22.07
64	5320	21.82
100	5500	21.89
116	5580	22.04
140	5700	21.99
144 (U-NII-2C)	5720	16.45

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.93	24.41 > 24
60	5300	22.07	24.43 > 24
64	5320	21.82	24.38 > 24
100	5500	21.89	24.4 > 24
116	5580	22.04	24.43 > 24
140	5700	21.99	24.42 > 24
144 (U-NII-2C)	5720	16.45	23.16 < 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	49.15
62	5310	44.87
102	5510	55.46
110	5550	47.77
134	5670	46.09
142 (U-NII-2C)	5710	35.78

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	49.15	27.91 > 24
62	5310	44.87	27.51 > 24
102	5510	55.46	28.43 > 24
110	5550	47.77	27.79 > 24
134	5670	46.09	27.63 > 24
142 (U-NII-2C)	5710	35.78	26.53 > 24

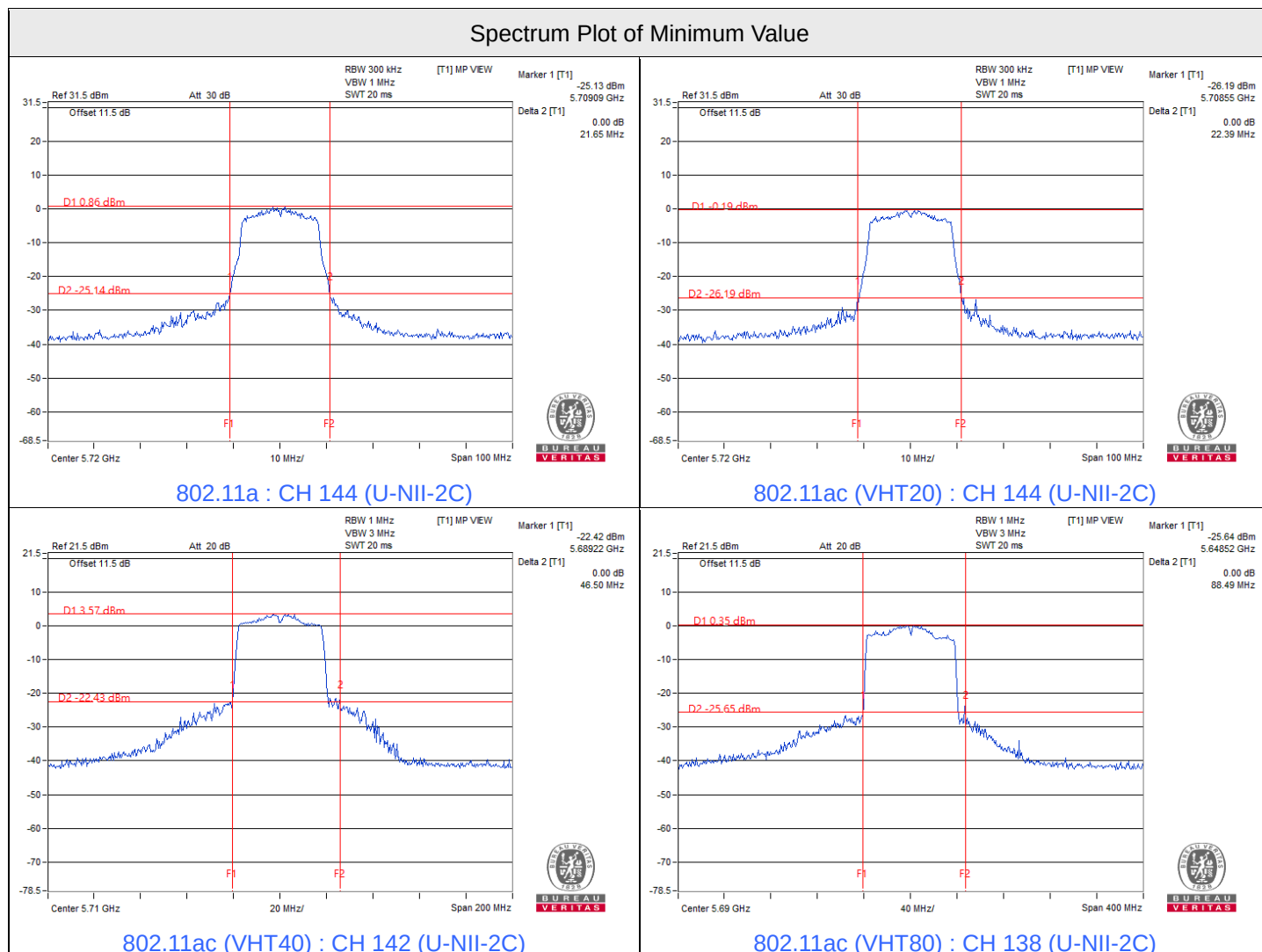
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	83.4
106	5530	83.57
122	5610	83.65
138 (U-NII-2C)	5690	76.48

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	83.40	30.21	>	24
106	5530	83.57	30.22	>	24
122	5610	83.65	30.22	>	24
138 (U-NII-2C)	5690	76.48	29.83	>	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:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	13.9	11.43	24	Pass
40	5200	13.646	11.35	24	Pass
48	5240	12.647	11.02	24	Pass
52	5260	11.194	10.49	24	Pass
60	5300	11.803	10.72	24	Pass
64	5320	11.614	10.65	24	Pass
100	5500	12.474	10.96	24	Pass
116	5580	13.183	11.20	24	Pass
140	5700	12.417	10.94	24	Pass
*144 (U-NII-2C)	5720	11.749	10.70	23.01	Pass
*144 (U-NII-3)	5720	1.656	2.19	30	Pass
149	5745	13.335	11.25	30	Pass
157	5785	12.882	11.10	30	Pass
165	5825	11.885	10.75	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 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	12.942	11.12	24	Pass
40	5200	12.531	10.98	24	Pass
48	5240	11.912	10.76	24	Pass
52	5260	10.28	10.12	24	Pass
60	5300	11.041	10.43	24	Pass
64	5320	11.246	10.51	24	Pass
100	5500	12.078	10.82	24	Pass
116	5580	12.531	10.98	24	Pass
140	5700	11.83	10.73	24	Pass
*144 (U-NII-2C)	5720	12.488	10.96	23.16	Pass
*144 (U-NII-3)	5720	1.302	1.15	30	Pass
149	5745	12.677	11.03	30	Pass
157	5785	12.162	10.85	30	Pass
165	5825	11.041	10.43	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	11.272	10.52	24	Pass
46	5230	10.839	10.35	24	Pass
54	5270	10.069	10.03	24	Pass
62	5310	10.233	10.10	24	Pass
102	5510	11.83	10.73	24	Pass
110	5550	11.885	10.75	24	Pass
134	5670	11.967	10.78	24	Pass
*142 (U-NII-2C)	5710	10.398	10.17	24	Pass
*142 (U-NII-3)	5710	0.9056	-0.43	30	Pass
151	5755	11.803	10.72	30	Pass
159	5795	11.912	10.76	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 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	13.804	11.40	24	Pass
40	5200	13.552	11.32	24	Pass
48	5240	12.531	10.98	24	Pass
52	5260	11.117	10.46	24	Pass
60	5300	11.749	10.70	24	Pass
64	5320	11.535	10.62	24	Pass
100	5500	12.388	10.93	24	Pass
116	5580	13.122	11.18	24	Pass
140	5700	12.331	10.91	24	Pass
*144 (U-NII-2C)	5720	13.167	11.19	23.16	Pass
*144 (U-NII-3)	5720	1.335	1.25	30	Pass
149	5745	13.274	11.23	30	Pass
157	5785	12.706	11.04	30	Pass
165	5825	11.803	10.72	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 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	11.588	10.64	24	Pass
46	5230	11.376	10.56	24	Pass
54	5270	10.593	10.25	24	Pass
62	5310	10.471	10.20	24	Pass
102	5510	12.274	10.89	24	Pass
110	5550	12.445	10.95	24	Pass
134	5670	12.134	10.84	24	Pass
*142 (U-NII-2C)	5710	10.963	10.40	24	Pass
*142 (U-NII-3)	5710	0.9527	-0.21	30	Pass
151	5755	12.274	10.89	30	Pass
159	5795	12.078	10.82	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

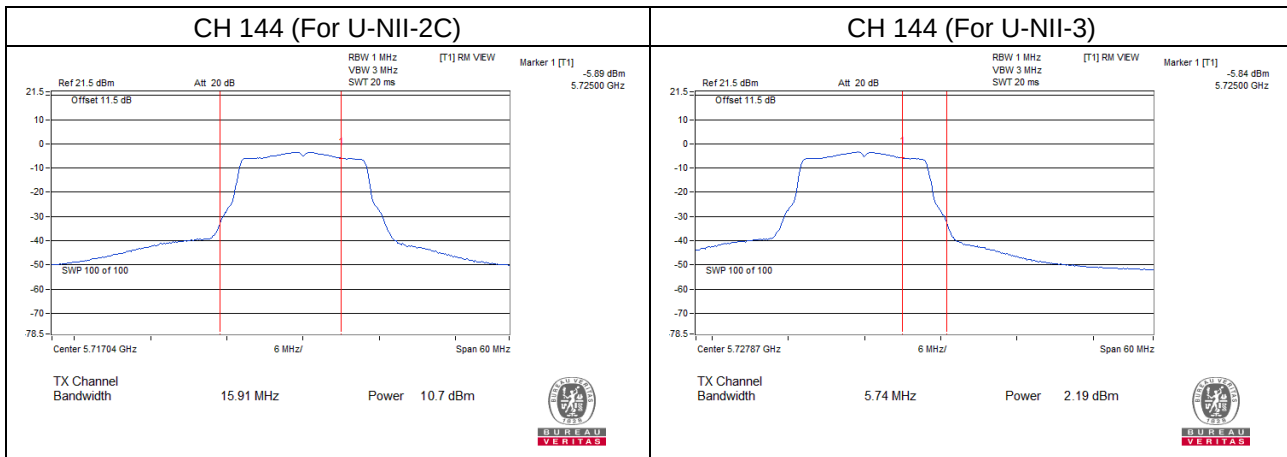
Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	10.069	10.03	24	Pass
58	5290	9.886	9.95	24	Pass
106	5530	6.516	8.14	24	Pass
122	5610	10.765	10.32	24	Pass
*138 (U-NII-2C)	5690	12.269	10.89	24	Pass
*138 (U-NII-3)	5690	0.5765	-2.39	30	Pass
155	5775	10.209	10.09	30	Pass

Notes:

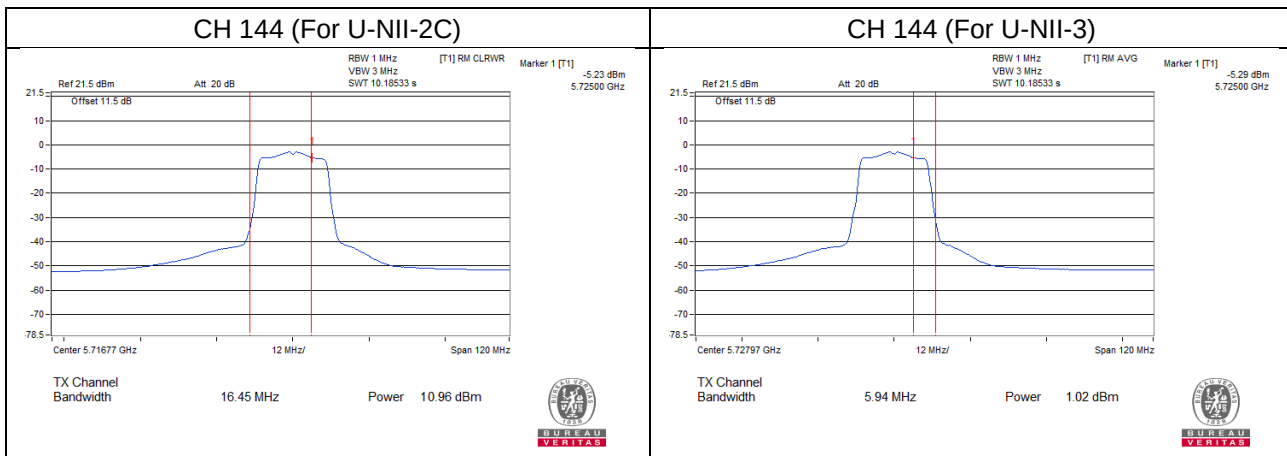
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the output power limit shall not be reduced.

Straddle channel power plots:

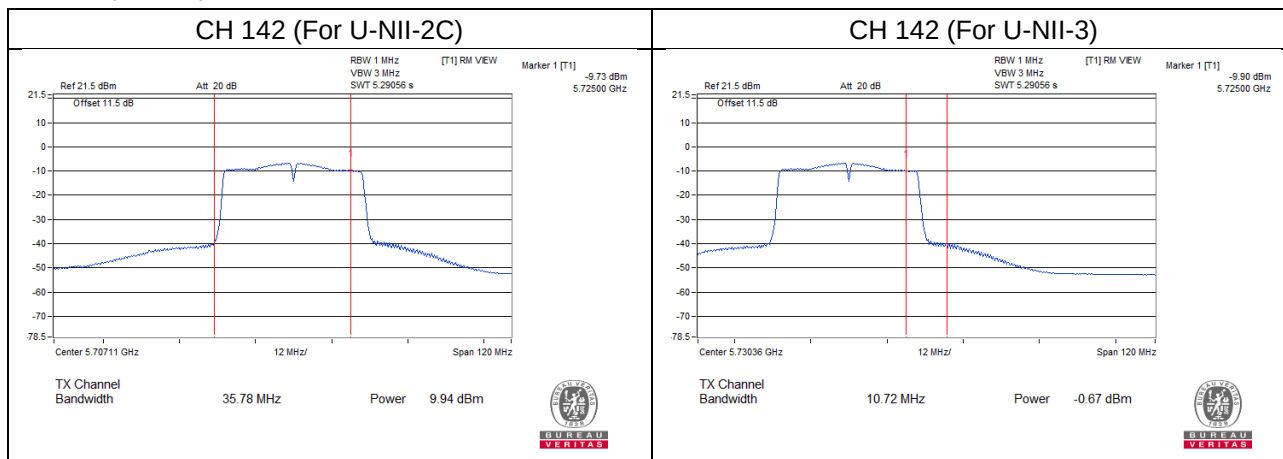
802.11a



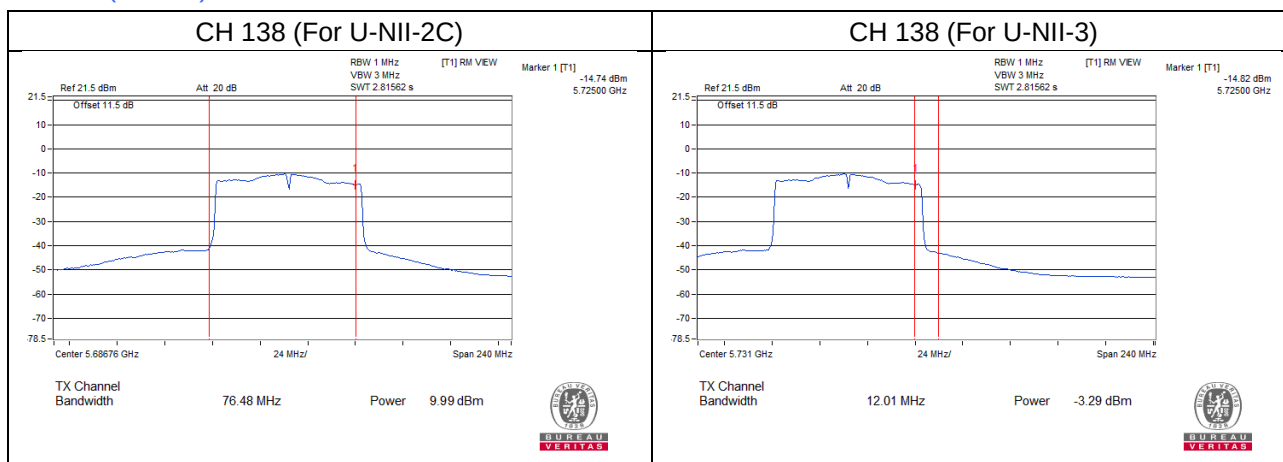
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



7.3 Power Spectral Density

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-2.13	11.00	Pass
40	5200	-2.15	11.00	Pass
48	5240	-2.46	11.00	Pass
52	5260	-2.97	11.00	Pass
60	5300	-2.62	11.00	Pass
64	5320	-2.87	11.00	Pass
100	5500	-2.41	11.00	Pass
116	5580	-2.32	11.00	Pass
140	5700	-2.54	11.00	Pass
144 (U-NII-2C)	5720	-2.24	11.00	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.95 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-2.13	0.23	-1.90	11.00	Pass
40	5200	-2.30	0.23	-2.07	11.00	Pass
48	5240	-2.56	0.23	-2.33	11.00	Pass
52	5260	-3.06	0.23	-2.83	11.00	Pass
60	5300	-2.78	0.23	-2.55	11.00	Pass
64	5320	-2.87	0.23	-2.64	11.00	Pass
100	5500	-2.70	0.23	-2.47	11.00	Pass
116	5580	-2.56	0.23	-2.33	11.00	Pass
140	5700	-2.65	0.23	-2.42	11.00	Pass
144 (U-NII-2C)	5720	-2.32	0.23	-2.09	11.00	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.95 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	-5.89	0.46	-5.43	11.00	Pass
46	5230	-5.81	0.46	-5.35	11.00	Pass
54	5270	-6.30	0.46	-5.84	11.00	Pass
62	5310	-6.70	0.46	-6.24	11.00	Pass
102	5510	-5.57	0.46	-5.11	11.00	Pass
110	5550	-5.28	0.46	-4.82	11.00	Pass
134	5670	-5.67	0.46	-5.21	11.00	Pass
142 (U-NII-2C)	5710	-5.63	0.46	-5.17	11.00	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.95 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.79 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-9.41	0.90	-8.51	11.00	Pass
58	5290	-9.68	0.90	-8.78	11.00	Pass
106	5530	-11.08	0.90	-10.18	11.00	Pass
122	5610	-9.19	0.90	-8.29	11.00	Pass
138 (U-NII-2C)	5690	-8.89	0.90	-7.99	11.00	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.95 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.95 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.79 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	-14.37	-12.15	30	Pass
149	5745	-13.65	-11.43	30	Pass
157	5785	-14.24	-12.02	30	Pass
165	5825	-14.57	-12.35	30	Pass

Note: For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-15.41	0.23	-12.96	30	Pass
149	5745	-14.42	0.23	-11.97	30	Pass
157	5785	-15.03	0.23	-12.58	30	Pass
165	5825	-15.5	0.23	-13.05	30	Pass

Note: For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
142 (U-NII-3)	5710	-18.78	0.46	-16.10	30	Pass
151	5755	-18.01	0.46	-15.33	30	Pass
159	5795	-18.54	0.46	-15.86	30	Pass

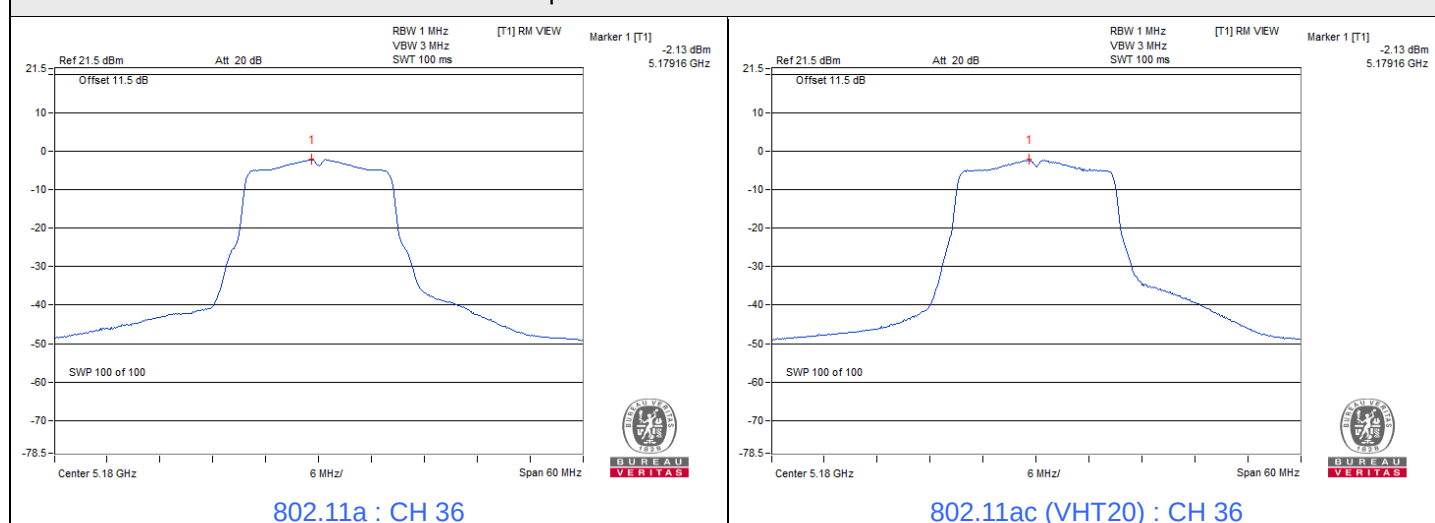
Note: For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

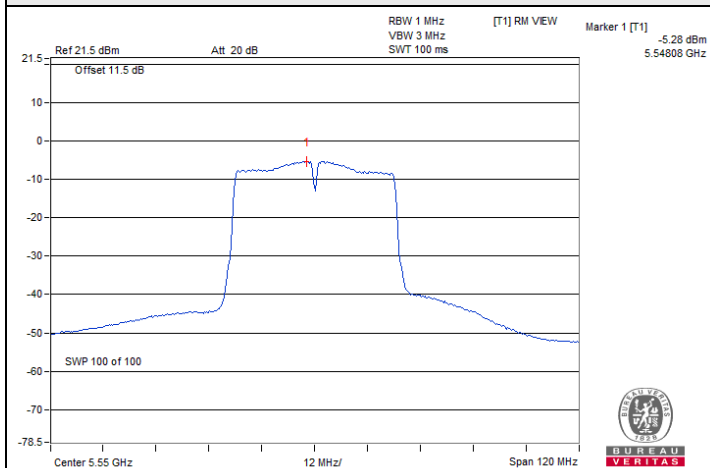
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
138 (U-NII-3)	5690	-23.44	0.9	-20.32	30	Pass
155	5775	-22.17	0.9	-19.05	30	Pass

Note: For U-NII-3, the antenna gain is 2.71 dBi < 6 dBi, so the power density limit shall not be reduced.

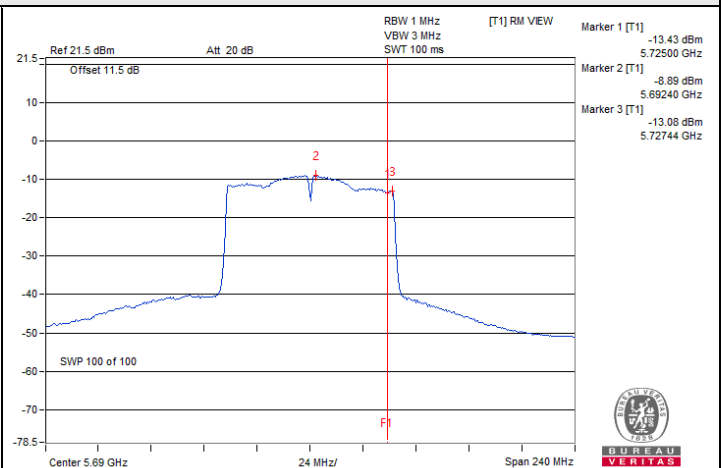
Spectrum Plot of Maximum Value



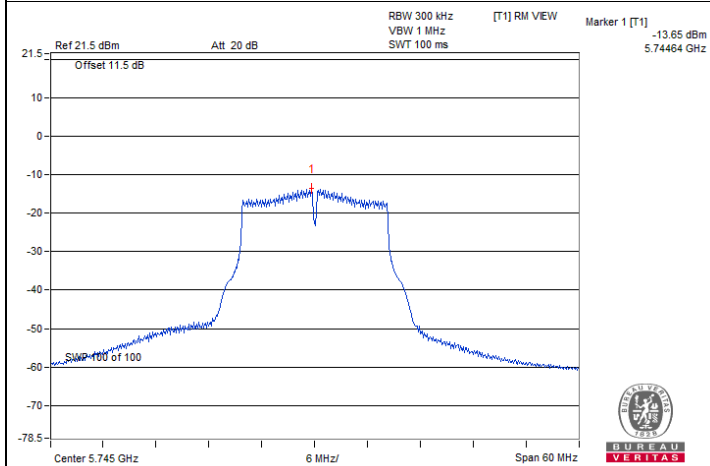
Spectrum Plot of Maximum Value



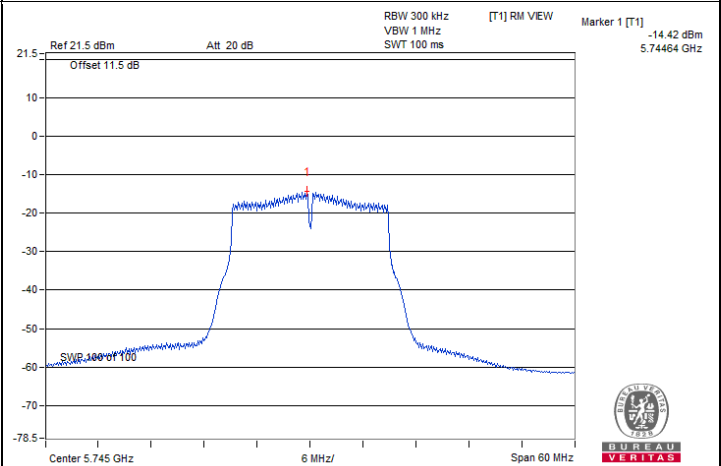
802.11ac (VHT40) : CH 110



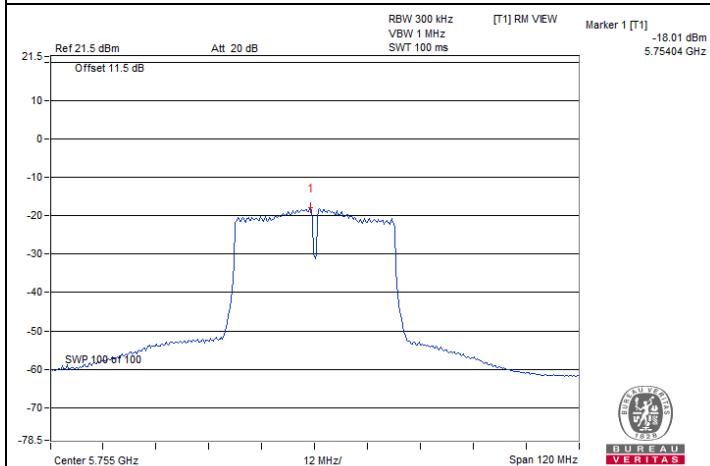
802.11ac (VHT80) : CH 138 (U-NII-2C)



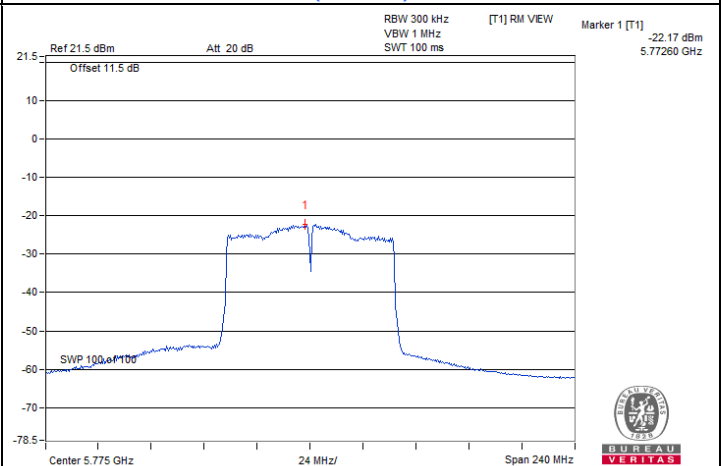
802.11a : CH 149



802.11ac (VHT20) : CH 149



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.4 6 dB Bandwidth

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	3.16	0.5	Pass
149	5745	16.38	0.5	Pass
157	5785	16.39	0.5	Pass
165	5825	16.39	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	3.75	0.5	Pass
149	5745	17.56	0.5	Pass
157	5785	17.6	0.5	Pass
165	5825	17.61	0.5	Pass

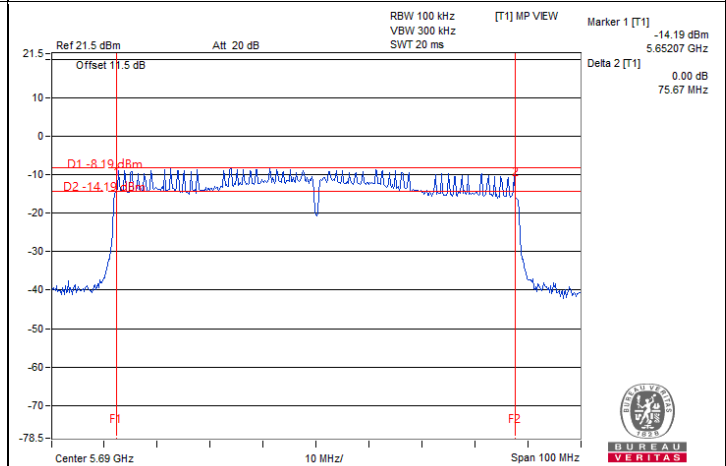
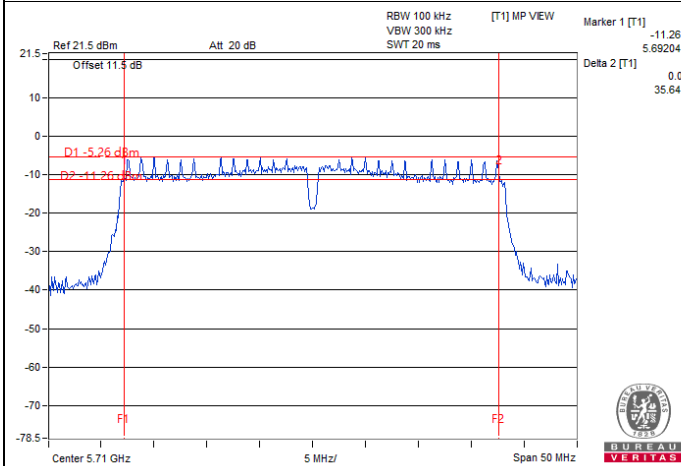
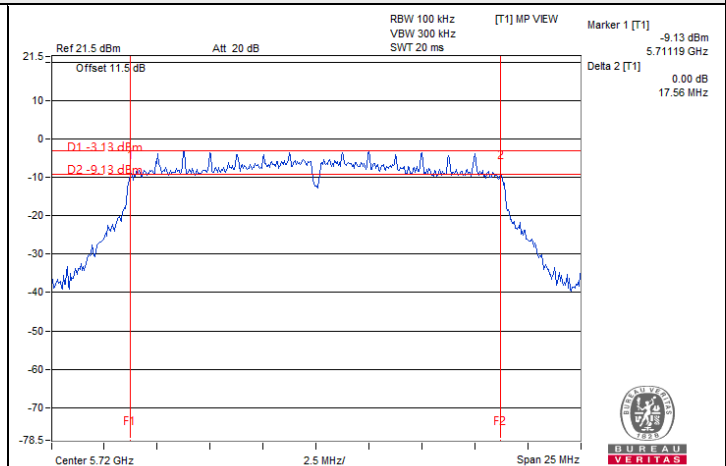
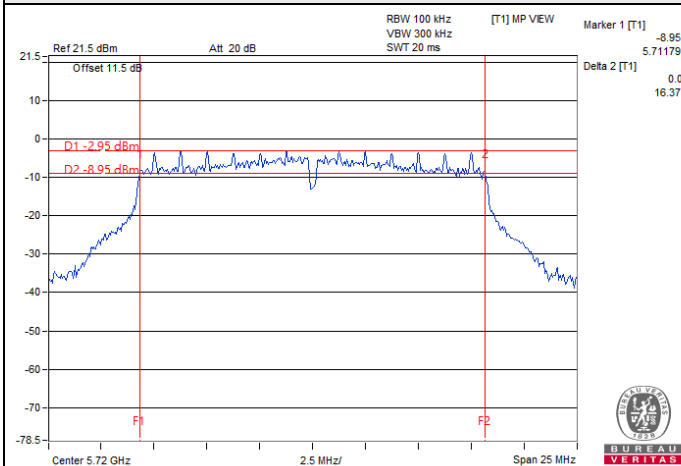
802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
142 (U-NII-3)	5710	2.68	0.5	Pass
151	5755	36.02	0.5	Pass
159	5795	35.94	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
138 (U-NII-3)	5690	2.74	0.5	Pass
155	5775	75.55	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:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.04
40	5200	17.04
48	5240	16.92
52	5260	16.92
60	5300	16.92
64	5320	16.92
100	5500	16.92
116	5580	16.92
140	5700	17.04
144 (U-NII-2C)	5720	13.64
144 (U-NII-3)	5720	3.4
149	5745	17.04
157	5785	17.04
165	5825	17.04

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.12
40	5200	18
48	5240	18.12
52	5260	18.12
60	5300	18.12
64	5320	18
100	5500	18.12
116	5580	18.12
140	5700	18.12
144 (U-NII-2C)	5720	14.12
144 (U-NII-3)	5720	4
149	5745	18.12
157	5785	18.12
165	5825	18.12

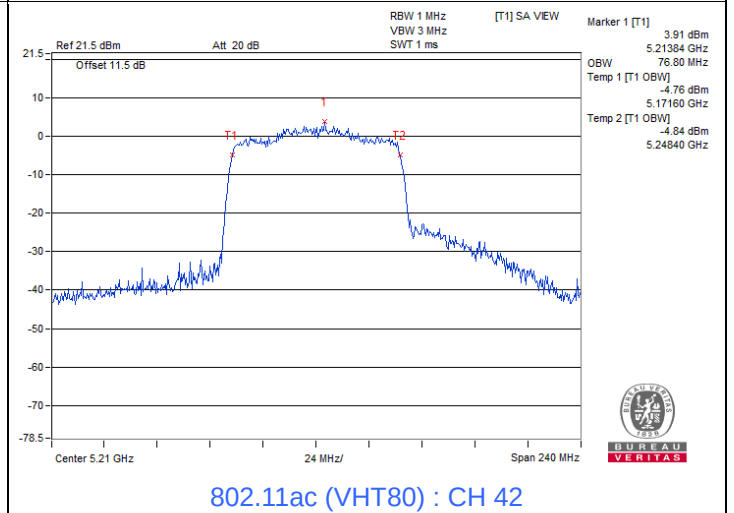
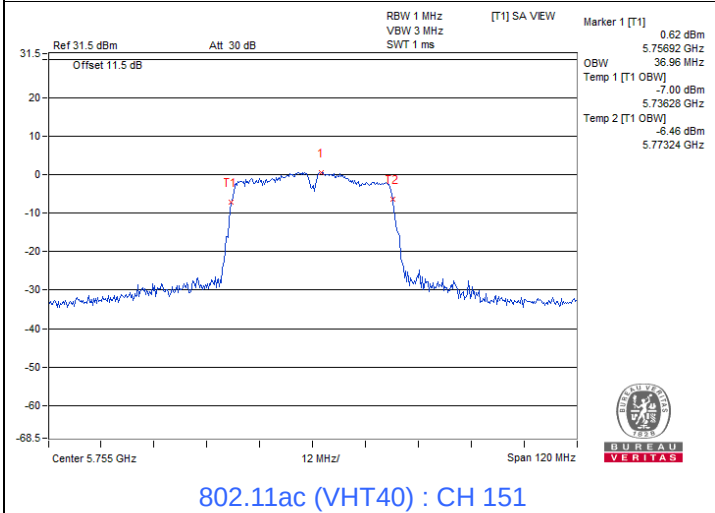
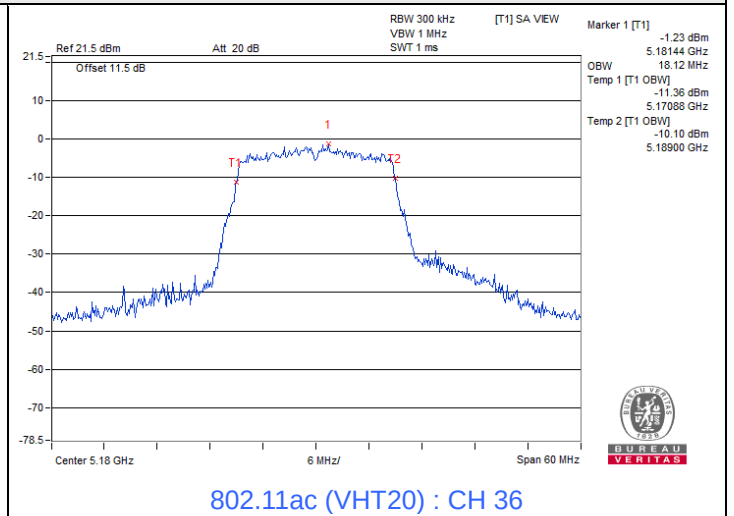
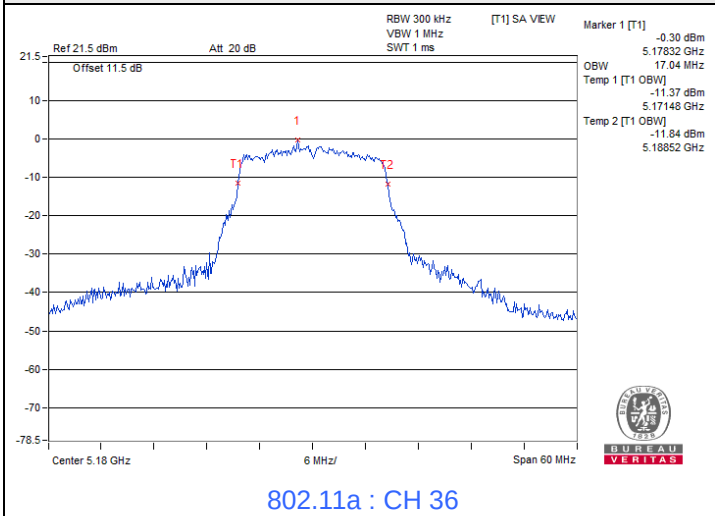
802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.72
46	5230	36.72
54	5270	36.6
62	5310	36.72
102	5510	36.6
110	5550	36.72
134	5670	36.72
142 (U-NII-2C)	5710	33.48
142 (U-NII-3)	5710	3.24
151	5755	36.96
159	5795	36.72

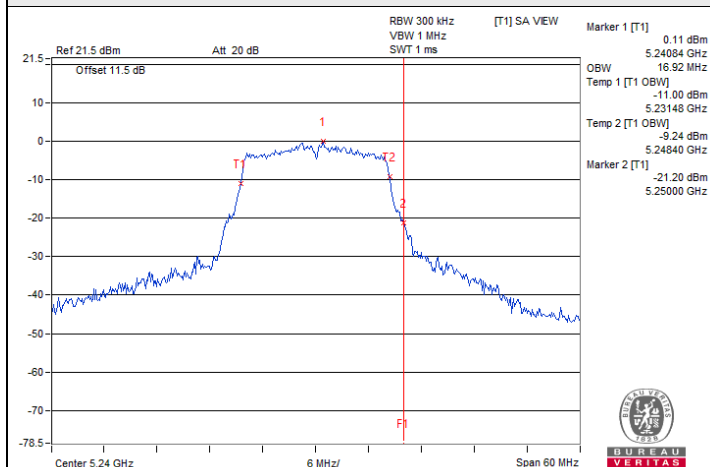
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	76.8
58	5290	75.84
106	5530	75.84
122	5610	75.84
138 (U-NII-2C)	5690	73.4
138 (U-NII-3)	5690	2.92
155	5775	75.36

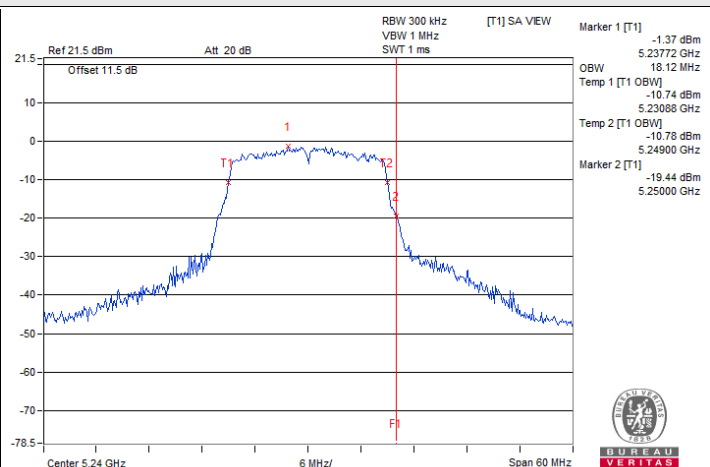
Spectrum Plot of Maximum Value



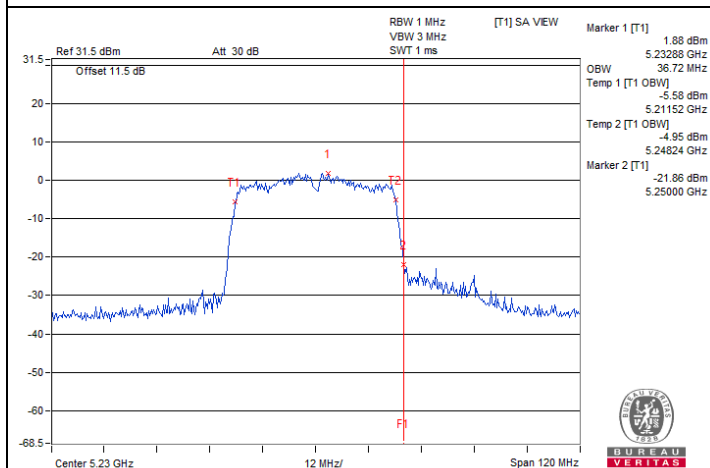
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)



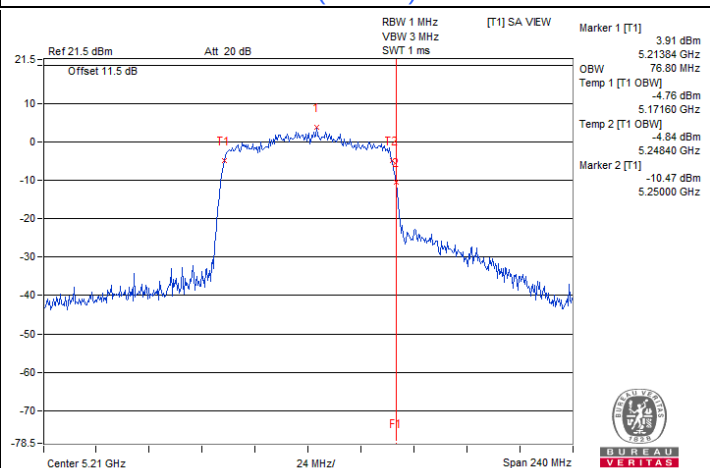
802.11a : CH 48



802.11ac (VHT20) : CH 48

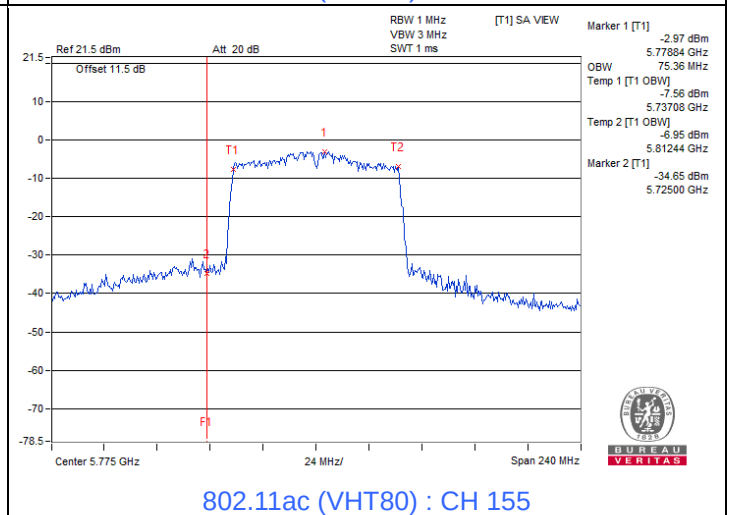
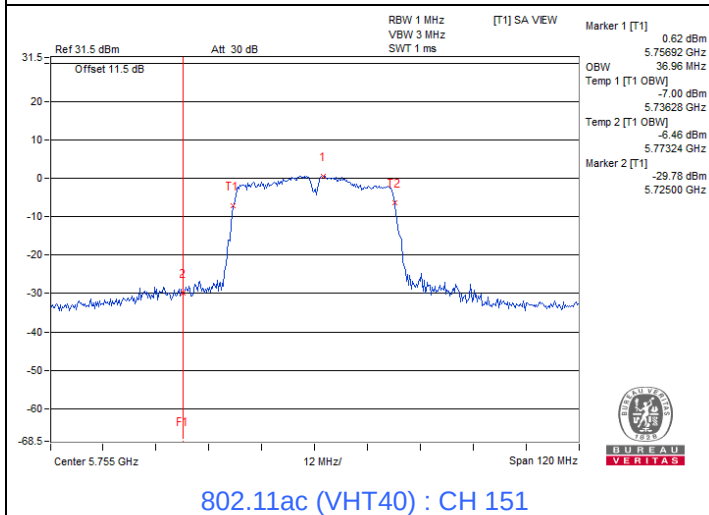
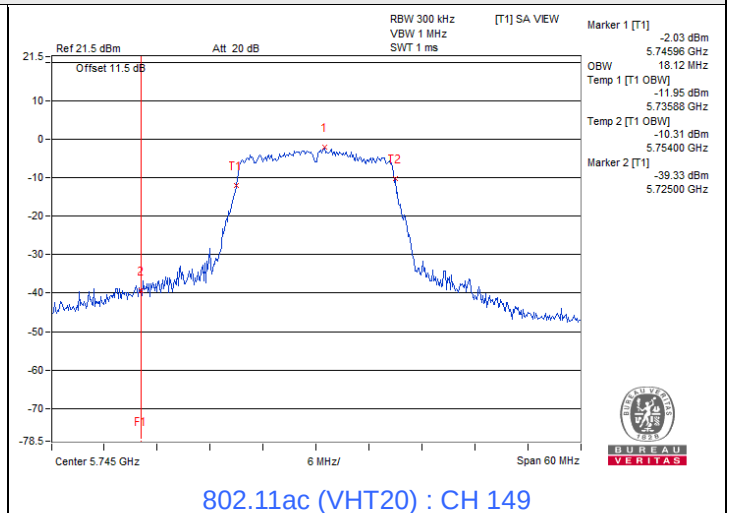
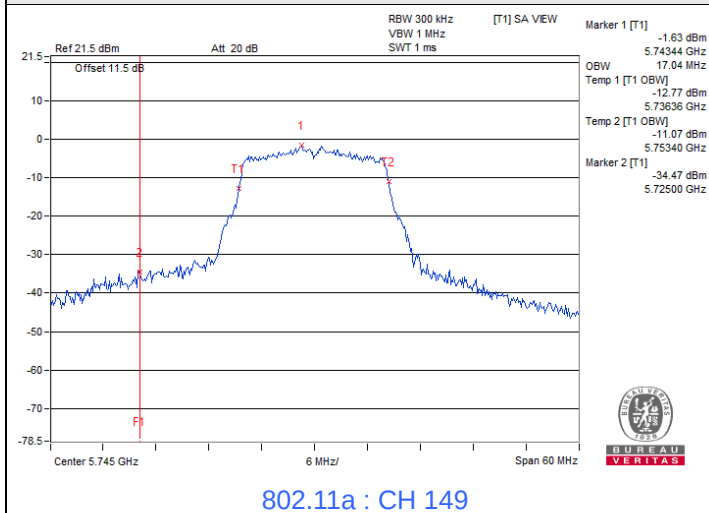


802.11ac (VHT40) : CH 46



802.11ac (VHT80) : CH 42

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



7.6 Frequency Stability

Input Power:	55 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyang Wang
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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
40	55	5179.9773	Pass	5179.9765	Pass	5179.9769	Pass	5179.9751	Pass
30	55	5179.9974	Pass	5179.9954	Pass	5179.9963	Pass	5179.9927	Pass
20	55	5180.0186	Pass	5180.0197	Pass	5180.0165	Pass	5180.0162	Pass
10	55	5179.9964	Pass	5179.9919	Pass	5179.996	Pass	5179.9932	Pass
0	55	5179.9763	Pass	5179.9785	Pass	5179.9777	Pass	5179.9762	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	63.25	5180.0137	Pass	5180.0113	Pass	5180.0105	Pass	5180.0107	Pass
	55	5180.0186	Pass	5180.0197	Pass	5180.0165	Pass	5180.0162	Pass
	46.75	5180.017	Pass	5180.0149	Pass	5180.0131	Pass	5180.0127	Pass

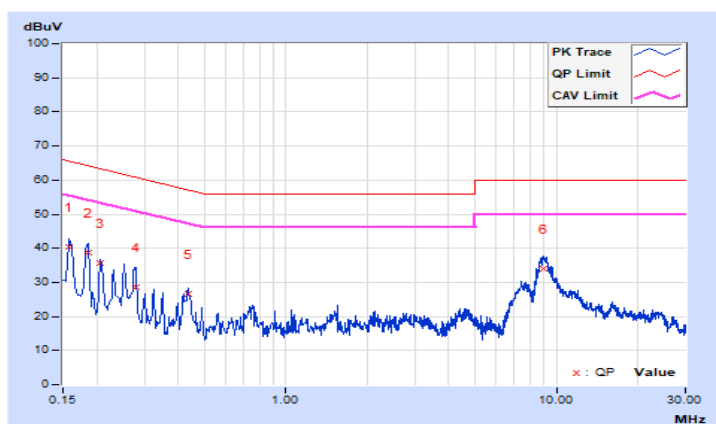
7.7 AC Power Conducted Emissions

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.15800	9.62	30.85	21.13	40.47	30.75	65.57	55.57	-25.10	-24.82
2	0.18519	9.63	29.12	16.43	38.75	26.06	64.25	54.25	-25.50	-28.19
3	0.20600	9.64	25.89	12.25	35.53	21.89	63.37	53.37	-27.84	-31.48
4	0.27786	9.66	19.06	10.39	28.72	20.05	60.88	50.88	-32.16	-30.83
5	0.43400	9.69	16.91	9.26	26.60	18.95	57.18	47.18	-30.58	-28.23
6	9.02200	9.80	24.34	18.70	34.14	28.50	60.00	50.00	-25.86	-21.50

Remarks:

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

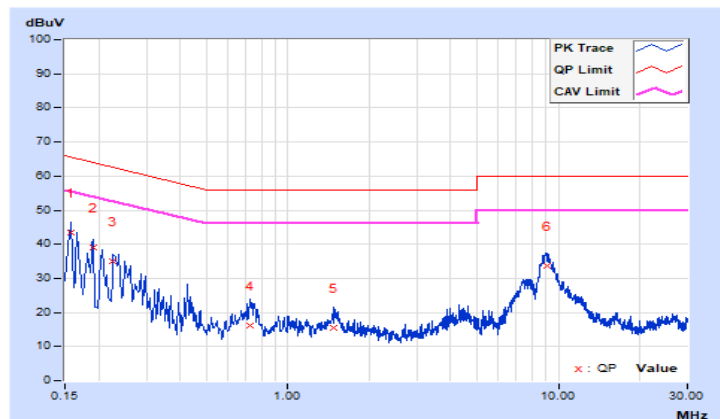


RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.62	33.69	19.83	43.31	29.45	65.57	55.57	-22.26	-26.12
2	0.19000	9.64	29.36	13.61	39.00	23.25	64.04	54.04	-25.04	-30.79
3	0.22600	9.65	25.23	11.66	34.88	21.31	62.60	52.60	-27.72	-31.29
4	0.72200	9.70	6.57	2.28	16.27	11.98	56.00	46.00	-39.73	-34.02
5	1.48200	9.71	5.92	0.97	15.63	10.68	56.00	46.00	-40.37	-35.32
6	9.14200	9.80	23.83	18.14	33.63	27.94	60.00	50.00	-26.37	-22.06

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



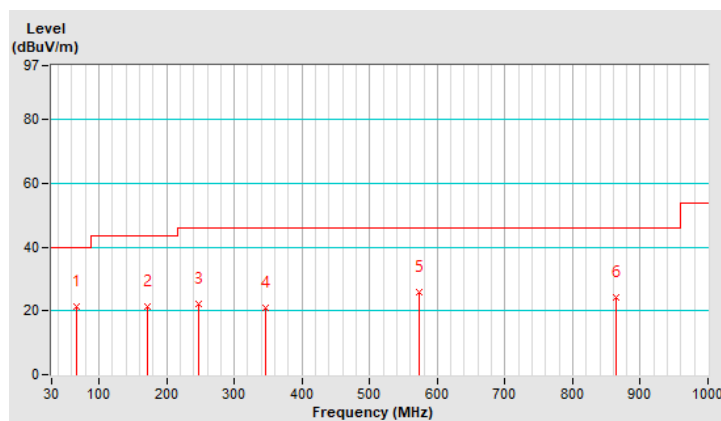
7.8 Unwanted Emissions below 1 GHz

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Charles Hsiao		

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	66.17	21.39 QP	40.00	-18.61	2.53 H	145	40.10	-18.71
2	172.29	21.32 QP	43.50	-22.18	1.26 H	197	38.58	-17.26
3	248.19	22.26 QP	46.00	-23.74	1.48 H	125	40.05	-17.79
4	346.35	21.08 QP	46.00	-24.92	2.21 H	149	36.06	-14.98
5	573.26	25.90 QP	46.00	-20.10	2.03 H	14	35.64	-9.74
6	864.26	24.10 QP	46.00	-21.90	1.05 H	304	29.45	-5.35

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.

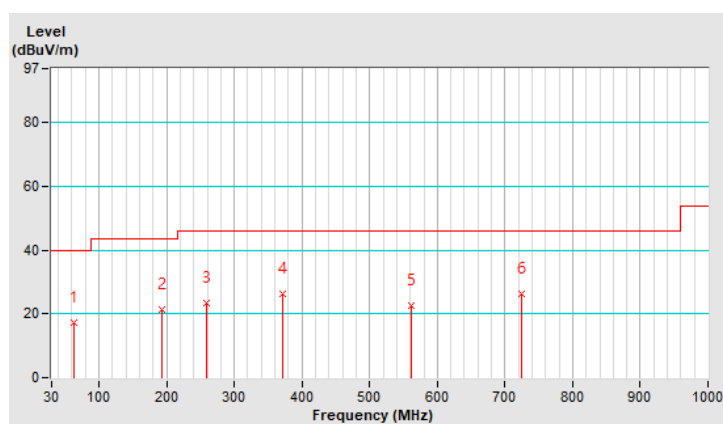


RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Charles Hsiao		

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	62.43	17.22 QP	40.00	-22.78	1.27 V	115	35.31	-18.09
2	192.44	21.17 QP	43.50	-22.33	1.63 V	282	40.84	-19.67
3	259.35	23.41 QP	46.00	-22.59	1.53 V	208	40.90	-17.49
4	372.14	26.28 QP	46.00	-19.72	1.51 V	176	40.43	-14.15
5	561.42	22.69 QP	46.00	-23.31	1.19 V	84	32.91	-10.22
6	724.16	26.29 QP	46.00	-19.71	2.26 V	71	33.70	-7.41

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.83 PK	74.00	-10.17	2.35 H	171	53.31	10.52
2	5150.00	52.92 AV	54.00	-1.08	2.35 H	171	42.40	10.52
3	*5180.00	105.32 PK			2.35 H	171	63.26	42.06
4	*5180.00	98.58 AV			2.35 H	171	56.52	42.06
5	#10360.00	54.52 PK	68.20	-13.68	1.26 H	182	38.54	15.98
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	60.02 PK	74.00	-13.98	2.37 V	73	49.50	10.52
2	5150.00	50.58 AV	54.00	-3.42	2.37 V	73	40.06	10.52
3	*5180.00	101.17 PK			2.37 V	73	59.11	42.06
4	*5180.00	94.44 AV			2.37 V	73	52.38	42.06
5	#10360.00	54.40 PK	68.20	-13.80	2.27 V	136	38.42	15.98

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	107.27 PK			2.35 H	164	65.14	42.13
2	*5200.00	100.52 AV			2.35 H	164	58.39	42.13
3	#10400.00	54.71 PK	68.20	-13.49	2.14 H	256	38.69	16.02
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	103.37 PK			2.37 V	81	61.24	42.13
2	*5200.00	96.59 AV			2.37 V	81	54.46	42.13
3	#10400.00	54.59 PK	68.20	-13.61	1.51 V	134	38.57	16.02

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.03 PK			2.04 H	139	64.86	42.17
2	*5240.00	99.44 AV			2.04 H	139	57.27	42.17
3	5350.00	60.35 PK	74.00	-13.65	2.04 H	139	49.77	10.58
4	5350.00	49.25 AV	54.00	-4.75	2.04 H	139	38.67	10.58
5	#10480.00	54.43 PK	68.20	-13.77	1.06 H	294	38.34	16.09
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	101.56 PK			2.33 V	70	59.39	42.17
2	*5240.00	94.02 AV			2.33 V	70	51.85	42.17
3	5350.00	59.77 PK	74.00	-14.23	2.33 V	70	49.19	10.58
4	5350.00	48.94 AV	54.00	-5.06	2.33 V	70	38.36	10.58
5	#10480.00	55.10 PK	68.20	-13.10	2.53 V	104	39.01	16.09

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.97 PK	74.00	-14.03	2.06 H	139	49.45	10.52
2	5150.00	49.70 AV	54.00	-4.30	2.06 H	139	39.18	10.52
3	*5260.00	106.44 PK			2.06 H	139	64.29	42.15
4	*5260.00	99.93 AV			2.06 H	139	57.78	42.15
5	#10520.00	54.65 PK	68.20	-13.55	1.12 H	148	38.59	16.06
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.75 PK	74.00	-14.25	2.43 V	13	49.23	10.52
2	5150.00	49.76 AV	54.00	-4.24	2.43 V	13	39.24	10.52
3	*5260.00	101.67 PK			2.43 V	13	59.52	42.15
4	*5260.00	94.97 AV			2.43 V	13	52.82	42.15
5	#10520.00	54.58 PK	68.20	-13.62	1.61 V	147	38.52	16.06

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	105.95 PK			2.09 H	153	63.84	42.11
2	*5300.00	99.37 AV			2.09 H	153	57.26	42.11
3	10600.00	54.13 PK	74.00	-19.87	2.82 H	145	38.27	15.86
4	10600.00	44.46 AV	54.00	-9.54	2.82 H	145	28.60	15.86
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	101.29 PK			2.36 V	21	59.18	42.11
2	*5300.00	94.45 AV			2.36 V	21	52.34	42.11
3	10600.00	54.42 PK	74.00	-19.58	1.05 V	172	38.56	15.86
4	10600.00	44.71 AV	54.00	-9.29	1.05 V	172	28.85	15.86

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	105.48 PK			2.00 H	147	63.36	42.12
2	*5320.00	98.75 AV			2.00 H	147	56.63	42.12
3	5350.00	60.35 PK	74.00	-13.65	2.00 H	147	49.77	10.58
4	5350.00	50.16 AV	54.00	-3.84	2.00 H	147	39.58	10.58
5	10640.00	54.85 PK	74.00	-19.15	1.39 H	0	38.80	16.05
6	10640.00	45.21 AV	54.00	-8.79	1.39 H	0	29.16	16.05
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	100.33 PK			2.57 V	14	58.21	42.12
2	*5320.00	93.75 AV			2.57 V	14	51.63	42.12
3	5350.00	59.58 PK	74.00	-14.42	2.57 V	14	49.00	10.58
4	5350.00	49.81 AV	54.00	-4.19	2.57 V	14	39.23	10.58
5	10640.00	54.42 PK	74.00	-19.58	2.24 V	278	38.37	16.05
6	10640.00	44.69 AV	54.00	-9.31	2.24 V	278	28.64	16.05

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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.41 PK	74.00	-14.59	2.00 H	230	48.93	10.48
2	5460.00	49.56 AV	54.00	-4.44	2.00 H	230	39.08	10.48
3	#5470.00	59.74 PK	68.20	-8.46	2.00 H	230	49.34	10.40
4	*5500.00	96.17 PK			2.00 H	230	54.09	42.08
5	*5500.00	89.45 AV			2.00 H	230	47.37	42.08
6	11000.00	57.04 PK	74.00	-16.96	1.17 H	197	40.28	16.76
7	11000.00	47.11 AV	54.00	-6.89	1.17 H	197	30.35	16.76
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	60.26 PK	74.00	-13.74	2.00 V	318	49.78	10.48
2	5460.00	49.88 AV	54.00	-4.12	2.00 V	318	39.40	10.48
3	#5470.00	63.32 PK	68.20	-4.88	2.00 V	318	52.92	10.40
4	*5500.00	105.00 PK			2.00 V	318	62.92	42.08
5	*5500.00	98.14 AV			2.00 V	318	56.06	42.08
6	11000.00	57.24 PK	74.00	-16.76	1.04 V	157	40.48	16.76
7	11000.00	47.19 AV	54.00	-6.81	1.04 V	157	30.43	16.76

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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	97.00 PK			2.00 H	230	55.73	41.27
2	*5580.00	90.30 AV			2.00 H	230	49.03	41.27
3	11160.00	57.20 PK	74.00	-16.80	1.33 H	328	41.39	15.81
4	11160.00	47.14 AV	54.00	-6.86	1.33 H	328	31.33	15.81
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	105.40 PK			2.00 V	318	63.26	42.14
2	*5580.00	98.40 AV			2.00 V	318	56.26	42.14
3	11160.00	57.26 PK	74.00	-16.74	1.51 V	17	40.41	16.85
4	11160.00	47.33 AV	54.00	-6.67	1.51 V	17	30.48	16.85

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 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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	101.41 PK			2.00 H	244	59.02	42.39
2	*5700.00	94.59 AV			2.00 H	244	52.20	42.39
3	#5725.00	62.01 PK	68.20	-6.19	2.00 H	244	51.01	11.00
4	11400.00	57.86 PK	74.00	-16.14	1.05 H	359	41.45	16.41
5	11400.00	47.43 AV	54.00	-6.57	1.05 H	359	31.02	16.41
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	106.78 PK			1.89 V	239	64.39	42.39
2	*5700.00	99.86 AV			1.89 V	239	57.47	42.39
3	#5725.00	67.02 PK	68.20	-1.18	1.89 V	239	56.02	11.00
4	11400.00	58.13 PK	74.00	-15.87	1.15 V	150	41.72	16.41
5	11400.00	47.45 AV	54.00	-6.55	1.15 V	150	31.04	16.41

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	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.93 PK	74.00	-14.07	1.98 H	236	49.45	10.48
2	5460.00	49.74 AV	54.00	-4.26	1.98 H	236	39.26	10.48
3	#5470.00	59.96 PK	68.20	-8.24	1.98 H	236	49.56	10.40
4	*5720.00	101.34 PK			1.98 H	236	58.90	42.44
5	*5720.00	94.76 AV			1.98 H	236	52.32	42.44
6	11440.00	55.17 PK	74.00	-18.83	1.92 H	203	38.49	16.68
7	11440.00	45.44 AV	54.00	-8.56	1.92 H	203	28.76	16.68
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.91 PK	74.00	-15.09	1.89 V	240	48.43	10.48
2	5460.00	49.81 AV	54.00	-4.19	1.89 V	240	39.33	10.48
3	#5470.00	60.06 PK	68.20	-8.14	1.89 V	240	49.66	10.40
4	*5720.00	105.92 PK			1.89 V	240	63.48	42.44
5	*5720.00	98.86 AV			1.89 V	240	56.42	42.44
6	11440.00	55.96 PK	74.00	-18.04	1.75 V	204	39.28	16.68
7	11440.00	47.76 AV	54.00	-6.24	1.75 V	204	31.08	16.68

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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	#5641.24	59.01 PK	68.20	-9.19	2.04 H	237	48.44	10.57
2	*5745.00	100.19 PK			2.04 H	237	57.70	42.49
3	*5745.00	93.54 AV			2.04 H	237	51.05	42.49
4	#5954.75	59.61 PK	68.20	-8.59	2.04 H	237	48.40	11.21
5	11490.00	57.84 PK	74.00	-16.16	1.44 H	237	40.83	17.01
6	11490.00	47.44 AV	54.00	-6.56	1.44 H	237	30.43	17.01
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	#5620.42	59.29 PK	68.20	-8.91	1.74 V	319	48.89	10.40
2	*5745.00	109.56 PK			1.74 V	319	67.07	42.49
3	*5745.00	102.37 AV			1.74 V	319	59.88	42.49
4	#5988.79	59.93 PK	68.20	-8.27	1.74 V	319	48.39	11.54
5	11490.00	58.39 PK	74.00	-15.61	1.15 V	24	41.38	17.01
6	11490.00	47.45 AV	54.00	-6.55	1.15 V	24	30.44	17.01

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 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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	#5604.80	59.50 PK	68.20	-8.70	2.04 H	242	49.22	10.28
2	*5785.00	101.12 PK			2.04 H	242	58.57	42.55
3	*5785.00	94.45 AV			2.04 H	242	51.90	42.55
4	#5975.18	59.66 PK	68.20	-8.54	2.04 H	242	48.24	11.42
5	11570.00	57.75 PK	74.00	-16.25	1.69 H	360	41.06	16.69
6	11570.00	47.63 AV	54.00	-6.37	1.69 H	360	30.94	16.69
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.65	60.18 PK	68.20	-8.02	1.74 V	352	49.58	10.60
2	*5785.00	108.42 PK			1.74 V	352	65.87	42.55
3	*5785.00	101.70 AV			1.74 V	352	59.15	42.55
4	#5967.57	61.33 PK	68.20	-6.87	1.74 V	352	50.00	11.33
5	11570.00	57.82 PK	74.00	-16.18	1.15 V	278	41.13	16.69
6	11570.00	47.60 AV	54.00	-6.40	1.15 V	278	30.91	16.69

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	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.42	58.46 PK	68.20	-9.74	2.04 H	242	48.08	10.38
2	*5825.00	101.50 PK			2.04 H	242	58.87	42.63
3	*5825.00	94.36 AV			2.04 H	242	51.73	42.63
4	#5953.95	60.27 PK	68.20	-7.93	2.04 H	242	49.06	11.21
5	11650.00	58.00 PK	74.00	-16.00	1.70 H	340	40.94	17.06
6	11650.00	47.59 AV	54.00	-6.41	1.70 H	340	30.53	17.06
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.44	59.05 PK	68.20	-9.15	1.82 V	355	48.50	10.55
2	*5825.00	107.11 PK			1.82 V	355	64.48	42.63
3	*5825.00	100.35 AV			1.82 V	355	57.72	42.63
4	#5986.79	60.95 PK	68.20	-7.25	1.82 V	355	49.43	11.52
5	11650.00	58.03 PK	74.00	-15.97	1.17 V	170	40.97	17.06
6	11650.00	47.57 AV	54.00	-6.43	1.17 V	170	30.51	17.06

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.75 PK	74.00	-10.25	2.35 H	171	53.23	10.52
2	5150.00	51.78 AV	54.00	-2.22	2.35 H	171	41.26	10.52
3	*5180.00	105.28 PK			2.35 H	171	63.22	42.06
4	*5180.00	97.73 AV			2.35 H	171	55.67	42.06
5	#10360.00	54.73 PK	68.20	-13.47	1.64 H	127	38.75	15.98
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.81 PK	74.00	-14.19	2.37 V	73	49.29	10.52
2	5150.00	50.71 AV	54.00	-3.29	2.37 V	73	40.19	10.52
3	*5180.00	101.14 PK			2.37 V	73	59.08	42.06
4	*5180.00	93.31 AV			2.37 V	73	51.25	42.06
5	#10360.00	54.62 PK	68.20	-13.58	2.41 V	272	38.64	15.98

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.22 PK			2.35 H	164	63.09	42.13
2	*5200.00	97.60 AV			2.35 H	164	55.47	42.13
3	#10400.00	54.43 PK	68.20	-13.77	2.26 H	149	38.41	16.02
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	101.05 PK			2.37 V	81	58.92	42.13
2	*5200.00	93.26 AV			2.37 V	81	51.13	42.13
3	#10400.00	54.54 PK	68.20	-13.66	1.53 V	149	38.52	16.02

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.85 PK			2.04 H	139	64.68	42.17
2	*5240.00	99.61 AV			2.04 H	139	57.44	42.17
3	5350.00	60.43 PK	74.00	-13.57	2.04 H	139	49.85	10.58
4	5350.00	49.99 AV	54.00	-4.01	2.04 H	139	39.41	10.58
5	#10480.00	54.34 PK	68.20	-13.86	1.47 H	342	38.25	16.09
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	100.76 PK			2.33 V	70	58.59	42.17
2	*5240.00	94.21 AV			2.33 V	70	52.04	42.17
3	5350.00	58.65 PK	74.00	-15.35	2.33 V	70	48.07	10.58
4	5350.00	49.77 AV	54.00	-4.23	2.33 V	70	39.19	10.58
5	#10480.00	54.44 PK	68.20	-13.76	2.33 V	70	38.35	16.09

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.40 PK	74.00	-14.60	2.06 H	139	48.88	10.52
2	5150.00	50.23 AV	54.00	-3.77	2.06 H	139	39.71	10.52
3	*5260.00	105.39 PK			2.06 H	139	63.24	42.15
4	*5260.00	99.15 AV			2.06 H	139	57.00	42.15
5	#10520.00	54.97 PK	68.20	-13.23	2.11 H	49	38.91	16.06
6	#10520.00	45.28 AV	54.00	-8.72	2.11 H	49	29.22	16.06
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	60.31 PK	74.00	-13.69	2.43 V	13	49.79	10.52
2	5150.00	50.10 AV	54.00	-3.90	2.43 V	13	39.58	10.52
3	*5260.00	100.97 PK			2.43 V	13	58.82	42.15
4	*5260.00	94.31 AV			2.43 V	13	52.16	42.15
5	#10520.00	54.75 PK	68.20	-13.45	1.51 V	16	38.69	16.06

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	104.85 PK			2.09 H	153	62.74	42.11
2	*5300.00	98.72 AV			2.09 H	153	56.61	42.11
3	10600.00	54.49 PK	74.00	-19.51	1.98 H	124	38.63	15.86
4	10600.00	44.77 AV	54.00	-9.23	1.98 H	124	28.91	15.86
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	100.40 PK			2.36 V	21	58.29	42.11
2	*5300.00	93.88 AV			2.36 V	21	51.77	42.11
3	10600.00	54.43 PK	74.00	-19.57	1.55 V	8	38.57	15.86
4	10600.00	44.69 AV	54.00	-9.31	1.55 V	8	28.83	15.86

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	105.57 PK			2.00 H	147	63.45	42.12
2	*5320.00	98.81 AV			2.00 H	147	56.69	42.12
3	5350.00	60.09 PK	74.00	-13.91	2.00 H	147	49.51	10.58
4	5350.00	50.98 AV	54.00	-3.02	2.00 H	147	40.40	10.58
5	10640.00	54.40 PK	74.00	-19.60	1.58 H	161	38.35	16.05
6	10640.00	44.72 AV	54.00	-9.28	1.58 H	161	28.67	16.05
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	100.66 PK			2.57 V	14	58.54	42.12
2	*5320.00	94.01 AV			2.57 V	14	51.89	42.12
3	5350.00	60.37 PK	74.00	-13.63	2.57 V	14	49.79	10.58
4	5350.00	50.39 AV	54.00	-3.61	2.57 V	14	39.81	10.58
5	10640.00	54.78 PK	74.00	-19.22	1.77 V	31	38.73	16.05
6	10640.00	45.13 AV	54.00	-8.87	1.77 V	31	29.08	16.05

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.44 PK	74.00	-14.56	2.00 H	230	48.96	10.48
2	5460.00	49.53 AV	54.00	-4.47	2.00 H	230	39.05	10.48
3	#5470.00	59.58 PK	68.20	-8.62	2.00 H	230	49.18	10.40
4	*5500.00	95.04 PK			2.00 H	230	52.96	42.08
5	*5500.00	88.19 AV			2.00 H	230	46.11	42.08
6	11000.00	57.04 PK	74.00	-16.96	1.85 H	57	40.28	16.76
7	11000.00	47.00 AV	54.00	-7.00	1.85 H	57	30.24	16.76
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.55 PK	74.00	-14.45	2.00 V	318	49.07	10.48
2	5460.00	49.60 AV	54.00	-4.40	2.00 V	318	39.12	10.48
3	#5470.00	59.71 PK	68.20	-8.49	2.00 V	318	49.31	10.40
4	*5500.00	104.84 PK			2.00 V	318	62.76	42.08
5	*5500.00	97.75 AV			2.00 V	318	55.67	42.08
6	11000.00	57.12 PK	74.00	-16.88	1.65 V	295	40.36	16.76
7	11000.00	47.22 AV	54.00	-6.78	1.65 V	295	30.46	16.76

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	95.28 PK			2.00 H	230	53.14	42.14
2	*5580.00	88.84 AV			2.00 H	230	46.70	42.14
3	11160.00	57.14 PK	74.00	-16.86	1.51 H	133	40.29	16.85
4	11160.00	47.13 AV	54.00	-6.87	1.51 H	133	30.28	16.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	103.44 PK			2.00 V	318	61.30	42.14
2	*5580.00	96.55 AV			2.00 V	318	54.41	42.14
3	11160.00	57.23 PK	74.00	-16.77	1.15 V	151	40.38	16.85
4	11160.00	47.27 AV	54.00	-6.73	1.15 V	151	30.42	16.85

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 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	100.07 PK			2.00 H	244	57.68	42.39
2	*5700.00	93.41 AV			2.00 H	244	51.02	42.39
3	#5725.00	61.29 PK	68.20	-6.91	2.00 H	244	50.29	11.00
4	11400.00	56.66 PK	74.00	-17.34	1.37 H	7	40.25	16.41
5	11400.00	47.35 AV	54.00	-6.65	1.37 H	7	30.94	16.41
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	106.04 PK			1.89 V	238	63.65	42.39
2	*5700.00	99.56 AV			1.89 V	238	57.17	42.39
3	#5725.00	66.21 PK	68.20	-1.99	1.89 V	238	55.21	11.00
4	11400.00	56.84 PK	74.00	-17.16	1.05 V	174	40.43	16.41
5	11400.00	47.38 AV	54.00	-6.62	1.05 V	174	30.97	16.41

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.00 PK	74.00	-15.00	1.98 H	236	48.52	10.48
2	5460.00	49.82 AV	54.00	-4.18	1.98 H	236	39.34	10.48
3	#5470.00	58.87 PK	68.20	-9.33	1.98 H	236	48.47	10.40
4	*5720.00	101.29 PK			1.98 H	236	58.85	42.44
5	*5720.00	94.73 AV			1.98 H	236	52.29	42.44
6	11440.00	55.07 PK	74.00	-18.93	1.46 H	142	38.39	16.68
7	11440.00	45.50 AV	54.00	-8.50	1.46 H	142	28.82	16.68
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.32 PK	74.00	-14.68	1.89 V	240	48.84	10.48
2	5460.00	49.74 AV	54.00	-4.26	1.89 V	240	39.26	10.48
3	#5470.00	60.11 PK	68.20	-8.09	1.89 V	240	49.71	10.40
4	*5720.00	106.76 PK			1.89 V	240	64.32	42.44
5	*5720.00	98.88 AV			1.89 V	240	56.44	42.44
6	11440.00	55.20 PK	74.00	-18.80	1.21 V	273	38.52	16.68
7	11440.00	45.58 AV	54.00	-8.42	1.21 V	273	28.90	16.68

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	#5634.83	59.08 PK	68.20	-9.12	2.04 H	243	48.57	10.51
2	*5745.00	101.40 PK			2.04 H	243	58.91	42.49
3	*5745.00	94.33 AV			2.04 H	243	51.84	42.49
4	#5950.35	59.53 PK	68.20	-8.67	2.04 H	243	48.36	11.17
5	11490.00	58.04 PK	74.00	-15.96	1.12 H	219	41.03	17.01
6	11490.00	47.51 AV	54.00	-6.49	1.12 H	219	30.50	17.01
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	#5613.61	58.90 PK	68.20	-9.30	1.75 V	355	48.54	10.36
2	*5745.00	105.68 PK			1.75 V	355	63.19	42.49
3	*5745.00	98.57 AV			1.75 V	355	56.08	42.49
4	#5938.34	59.87 PK	68.20	-8.33	1.75 V	355	48.82	11.05
5	11490.00	57.84 PK	74.00	-16.16	1.04 V	104	40.83	17.01
6	11490.00	47.60 AV	54.00	-6.40	1.04 V	104	30.59	17.01

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 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.41	59.60 PK	68.20	-8.60	2.04 H	242	49.31	10.29
2	*5785.00	101.20 PK			2.04 H	242	58.65	42.55
3	*5785.00	94.63 AV			2.04 H	242	52.08	42.55
4	#5986.39	59.96 PK	68.20	-8.24	2.04 H	242	48.45	11.51
5	11570.00	57.94 PK	74.00	-16.06	1.36 H	250	41.25	16.69
6	11570.00	47.52 AV	54.00	-6.48	1.36 H	250	30.83	16.69
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.25	59.54 PK	68.20	-8.66	1.75 V	355	48.92	10.62
2	*5785.00	106.70 PK			1.75 V	355	64.15	42.55
3	*5785.00	99.58 AV			1.75 V	355	57.03	42.55
4	#5967.97	59.77 PK	68.20	-8.43	1.75 V	355	48.43	11.34
5	11570.00	58.10 PK	74.00	-15.90	1.66 V	296	41.41	16.69
6	11570.00	47.54 AV	54.00	-6.46	1.66 V	296	30.85	16.69

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 = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.24	60.12 PK	68.20	-8.08	2.04 H	242	49.56	10.56
2	*5825.00	101.00 PK			2.04 H	242	58.37	42.63
3	*5825.00	94.41 AV			2.04 H	242	51.78	42.63
4	#5991.19	59.75 PK	68.20	-8.45	2.04 H	242	48.19	11.56
5	11650.00	58.22 PK	74.00	-15.78	1.79 H	9	41.16	17.06
6	11650.00	47.64 AV	54.00	-6.36	1.79 H	9	30.58	17.06
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	#5608.01	60.14 PK	68.20	-8.06	1.75 V	355	49.83	10.31
2	*5825.00	106.52 PK			1.75 V	355	63.89	42.63
3	*5825.00	99.36 AV			1.75 V	355	56.73	42.63
4	#5982.38	60.41 PK	68.20	-7.79	1.75 V	355	48.93	11.48
5	11650.00	58.14 PK	74.00	-15.86	1.00 V	165	41.08	17.06
6	11650.00	47.55 AV	54.00	-6.45	1.00 V	165	30.49	17.06

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	62.91 PK	74.00	-11.09	1.55 H	171	52.39	10.52
2	5150.00	52.77 AV	54.00	-1.23	1.55 H	171	42.25	10.52
3	*5190.00	102.64 PK			1.55 H	171	60.55	42.09
4	*5190.00	95.46 AV			1.55 H	171	53.37	42.09
5	5350.00	59.41 PK	74.00	-14.59	1.55 H	171	48.83	10.58
6	5350.00	50.59 AV	54.00	-3.41	1.55 H	171	40.01	10.58
7	#10380.00	54.72 PK	68.20	-13.48	1.54 H	304	38.72	16.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.80 PK	74.00	-14.20	2.37 V	73	49.28	10.52
2	5150.00	51.04 AV	54.00	-2.96	2.37 V	73	40.52	10.52
3	*5190.00	97.55 PK			2.37 V	73	55.46	42.09
4	*5190.00	90.92 AV			2.37 V	73	48.83	42.09
5	5350.00	59.66 PK	74.00	-14.34	2.37 V	73	49.08	10.58
6	5350.00	50.35 AV	54.00	-3.65	2.37 V	73	39.77	10.58
7	#10380.00	54.46 PK	68.20	-13.74	1.94 V	34	38.46	16.00

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.47 PK	74.00	-14.53	2.04 H	139	48.95	10.52
2	5150.00	50.32 AV	54.00	-3.68	2.04 H	139	39.80	10.52
3	*5230.00	103.00 PK			2.04 H	139	60.85	42.15
4	*5230.00	96.59 AV			2.04 H	139	54.44	42.15
5	5350.00	59.90 PK	74.00	-14.10	2.04 H	139	49.32	10.58
6	5350.00	50.22 AV	54.00	-3.78	2.04 H	139	39.64	10.58
7	#10460.00	54.82 PK	68.20	-13.38	1.36 H	324	38.75	16.07
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.15 PK	74.00	-14.85	2.33 V	70	48.63	10.52
2	5150.00	50.07 AV	54.00	-3.93	2.33 V	70	39.55	10.52
3	*5230.00	98.29 PK			2.33 V	70	56.14	42.15
4	*5230.00	91.88 AV			2.33 V	70	49.73	42.15
5	5350.00	59.27 PK	74.00	-14.73	2.33 V	70	48.69	10.58
6	5350.00	50.62 AV	54.00	-3.38	2.33 V	70	40.04	10.58
7	#10460.00	54.54 PK	68.20	-13.66	1.48 V	68	38.47	16.07

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.93 PK	74.00	-14.07	2.17 H	137	49.41	10.52
2	5150.00	50.60 AV	54.00	-3.40	2.17 H	137	40.08	10.52
3	*5270.00	103.52 PK			2.17 H	137	61.37	42.15
4	*5270.00	96.92 AV			2.17 H	137	54.77	42.15
5	5350.00	60.26 PK	74.00	-13.74	2.17 H	137	49.68	10.58
6	5350.00	50.97 AV	54.00	-3.03	2.17 H	137	40.39	10.58
7	#10540.00	54.21 PK	68.20	-13.99	1.52 H	293	38.21	16.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.97 PK	74.00	-14.03	2.45 V	13	49.45	10.52
2	5150.00	50.68 AV	54.00	-3.32	2.45 V	13	40.16	10.52
3	*5270.00	98.55 PK			2.45 V	13	56.40	42.15
4	*5270.00	91.65 AV			2.45 V	13	49.50	42.15
5	5350.00	59.92 PK	74.00	-14.08	2.45 V	13	49.34	10.58
6	5350.00	50.97 AV	54.00	-3.03	2.45 V	13	40.39	10.58
7	#10540.00	54.60 PK	68.20	-13.60	2.12 V	181	38.60	16.00

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.70 PK	74.00	-14.30	2.02 H	148	49.18	10.52
2	5150.00	50.84 AV	54.00	-3.16	2.02 H	148	40.32	10.52
3	*5310.00	100.19 PK			2.02 H	148	58.08	42.11
4	*5310.00	93.59 AV			2.02 H	148	51.48	42.11
5	5350.00	60.22 PK	74.00	-13.78	2.02 H	148	49.64	10.58
6	5350.00	51.75 AV	54.00	-2.25	2.02 H	148	41.17	10.58
7	10620.00	54.52 PK	74.00	-19.48	2.45 H	282	38.57	15.95
8	10620.00	44.75 AV	54.00	-9.25	2.45 H	282	28.80	15.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.67 PK	74.00	-14.33	2.57 V	14	49.15	10.52
2	5150.00	50.59 AV	54.00	-3.41	2.57 V	14	40.07	10.52
3	*5310.00	94.90 PK			2.57 V	14	52.79	42.11
4	*5310.00	88.82 AV			2.57 V	14	46.71	42.11
5	5350.00	60.14 PK	74.00	-13.86	2.57 V	14	49.56	10.58
6	5350.00	50.72 AV	54.00	-3.28	2.57 V	14	40.14	10.58
7	10620.00	54.15 PK	74.00	-19.85	1.60 V	127	38.20	15.95
8	10620.00	44.57 AV	54.00	-9.43	1.60 V	127	28.62	15.95

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.74 PK	74.00	-14.26	2.27 H	238	49.26	10.48
2	5460.00	50.32 AV	54.00	-3.68	2.27 H	238	39.84	10.48
3	#5470.00	59.80 PK	68.20	-8.40	2.27 H	238	49.40	10.40
4	*5510.00	97.32 PK			2.27 H	238	55.23	42.09
5	*5510.00	90.47 AV			2.27 H	238	48.38	42.09
6	#5725.00	60.09 PK	68.20	-8.11	2.27 H	238	49.09	11.00
7	11020.00	56.57 PK	74.00	-17.43	1.17 H	48	39.88	16.69
8	11020.00	47.51 AV	54.00	-6.49	1.17 H	48	30.82	16.69
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	62.88 PK	74.00	-11.12	2.00 V	246	52.40	10.48
2	5460.00	52.79 AV	54.00	-1.21	2.00 V	246	42.31	10.48
3	#5470.00	63.00 PK	68.20	-5.20	2.00 V	246	52.60	10.40
4	*5510.00	102.61 PK			2.00 V	246	60.52	42.09
5	*5510.00	95.37 AV			2.00 V	246	53.28	42.09
6	#5725.00	61.37 PK	68.20	-6.83	2.00 V	246	50.37	11.00
7	11020.00	56.45 PK	74.00	-17.55	1.19 V	85	39.76	16.69
8	11020.00	44.66 AV	54.00	-9.34	1.19 V	85	27.97	16.69

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	99.85 PK			2.27 H	240	57.73	42.12
2	*5550.00	92.36 AV			2.27 H	240	50.24	42.12
3	11100.00	57.12 PK	74.00	-16.88	1.64 H	209	40.72	16.40
4	11100.00	47.53 AV	54.00	-6.47	1.64 H	209	31.13	16.40
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	104.41 PK			1.98 V	245	62.29	42.12
2	*5550.00	97.70 AV			1.98 V	245	55.58	42.12
3	11100.00	57.32 PK	74.00	-16.68	1.19 V	86	40.92	16.40
4	11100.00	47.60 AV	54.00	-6.40	1.19 V	86	31.20	16.40

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 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.74 PK	74.00	-14.26	2.26 H	240	49.26	10.48
2	5460.00	50.57 AV	54.00	-3.43	2.26 H	240	40.09	10.48
3	#5470.00	59.89 PK	68.20	-8.31	2.26 H	240	49.49	10.40
4	*5670.00	100.28 PK			2.26 H	240	57.99	42.29
5	*5670.00	93.55 AV			2.26 H	240	51.26	42.29
6	#5725.00	60.85 PK	68.20	-7.35	2.26 H	240	49.85	11.00
7	11340.00	57.33 PK	74.00	-16.67	1.07 H	7	40.52	16.81
8	11340.00	47.51 AV	54.00	-6.49	1.07 H	7	30.70	16.81
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.74 PK	74.00	-14.26	2.00 V	246	49.26	10.48
2	5460.00	50.60 AV	54.00	-3.40	2.00 V	246	40.12	10.48
3	#5470.00	60.02 PK	68.20	-8.18	2.00 V	246	49.62	10.40
4	*5670.00	105.43 PK			2.00 V	246	63.14	42.29
5	*5670.00	98.58 AV			2.00 V	246	56.29	42.29
6	#5725.00	61.33 PK	68.20	-6.87	2.00 V	246	50.33	11.00
7	11340.00	57.42 PK	74.00	-16.58	1.11 V	174	40.61	16.81
8	11340.00	47.65 AV	54.00	-6.35	1.11 V	174	30.84	16.81

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.71 PK	74.00	-14.29	1.98 H	236	49.23	10.48
2	5460.00	50.43 AV	54.00	-3.57	1.98 H	236	39.95	10.48
3	#5470.00	60.49 PK	68.20	-7.71	1.98 H	236	50.09	10.40
4	*5710.00	99.17 PK			1.98 H	236	56.76	42.41
5	*5710.00	92.00 AV			1.98 H	236	49.59	42.41
6	11420.00	55.58 PK	74.00	-18.42	1.72 H	46	39.04	16.54
7	11420.00	45.90 AV	54.00	-8.10	1.72 H	46	29.36	16.54
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.81 PK	74.00	-14.19	1.89 V	240	49.33	10.48
2	5460.00	50.27 AV	54.00	-3.73	1.89 V	240	39.79	10.48
3	#5470.00	60.82 PK	68.20	-7.38	1.89 V	240	50.42	10.40
4	*5710.00	102.96 PK			1.89 V	240	60.55	42.41
5	*5710.00	96.56 AV			1.89 V	240	54.15	42.41
6	11420.00	54.71 PK	74.00	-19.29	1.16 V	223	38.17	16.54
7	11420.00	45.06 AV	54.00	-8.94	1.16 V	223	28.52	16.54

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 = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.44	60.04 PK	68.20	-8.16	2.04 H	242	49.45	10.59
2	*5755.00	99.52 PK			2.04 H	242	57.01	42.51
3	*5755.00	92.60 AV			2.04 H	242	50.09	42.51
4	#5962.76	60.39 PK	68.20	-7.81	2.04 H	242	49.10	11.29
5	11510.00	57.74 PK	74.00	-16.26	1.35 H	170	40.72	17.02
6	11510.00	47.70 AV	54.00	-6.30	1.35 H	170	30.68	17.02
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	#5622.82	59.74 PK	68.20	-8.46	1.96 V	239	49.31	10.43
2	*5755.00	104.27 PK			1.96 V	239	61.76	42.51
3	*5755.00	97.45 AV			1.96 V	239	54.94	42.51
4	#5990.39	60.88 PK	68.20	-7.32	1.96 V	239	49.33	11.55
5	11510.00	57.67 PK	74.00	-16.33	1.01 V	117	40.65	17.02
6	11510.00	47.78 AV	54.00	-6.22	1.01 V	117	30.76	17.02

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 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

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	#5621.62	60.39 PK	68.20	-7.81	2.04 H	242	49.97	10.42
2	*5795.00	99.32 PK			2.04 H	242	56.75	42.57
3	*5795.00	92.50 AV			2.04 H	242	49.93	42.57
4	#5987.19	60.94 PK	68.20	-7.26	2.04 H	242	49.42	11.52
5	11590.00	58.03 PK	74.00	-15.97	1.68 H	228	41.45	16.58
6	11590.00	47.74 AV	54.00	-6.26	1.68 H	228	31.16	16.58
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.25	59.53 PK	68.20	-8.67	1.96 V	239	48.94	10.59
2	*5795.00	103.65 PK			1.96 V	239	61.08	42.57
3	*5795.00	96.70 AV			1.96 V	239	54.13	42.57
4	#5980.78	59.85 PK	68.20	-8.35	1.96 V	239	48.38	11.47
5	11590.00	57.88 PK	74.00	-16.12	1.64 V	188	41.30	16.58
6	11590.00	47.75 AV	54.00	-6.25	1.64 V	188	31.17	16.58

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 = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.01 PK	74.00	-13.99	1.52 H	171	49.49	10.52
2	5150.00	52.47 AV	54.00	-1.53	1.52 H	171	41.95	10.52
3	*5210.00	98.87 PK			1.52 H	171	56.74	42.13
4	*5210.00	92.00 AV			1.52 H	171	49.87	42.13
5	5350.00	59.51 PK	74.00	-14.49	1.52 H	171	48.93	10.58
6	5350.00	50.66 AV	54.00	-3.34	1.52 H	171	40.08	10.58
7	#10420.00	54.65 PK	68.20	-13.55	2.06 H	218	38.61	16.04
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.80 PK	74.00	-14.20	2.48 V	69	49.28	10.52
2	5150.00	50.84 AV	54.00	-3.16	2.48 V	69	40.32	10.52
3	*5210.00	93.24 PK			2.48 V	69	51.11	42.13
4	*5210.00	86.60 AV			2.48 V	69	44.47	42.13
5	5350.00	59.32 PK	74.00	-14.68	2.48 V	69	48.74	10.58
6	5350.00	50.61 AV	54.00	-3.39	2.48 V	69	40.03	10.58
7	#10420.00	54.63 PK	68.20	-13.57	1.47 V	245	38.59	16.04

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 = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

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	59.98 PK	74.00	-14.02	2.02 H	136	49.46	10.52
2	5150.00	50.69 AV	54.00	-3.31	2.02 H	136	40.17	10.52
3	*5290.00	95.21 PK			2.02 H	136	53.08	42.13
4	*5290.00	88.77 AV			2.02 H	136	46.64	42.13
5	5350.00	61.80 PK	74.00	-12.20	2.02 H	136	51.22	10.58
6	5350.00	52.79 AV	54.00	-1.21	2.02 H	136	42.21	10.58
7	#10580.00	56.73 PK	68.20	-11.47	1.17 H	7	40.82	15.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.42 PK	74.00	-14.58	2.45 V	14	48.90	10.52
2	5150.00	50.31 AV	54.00	-3.69	2.45 V	14	39.79	10.52
3	*5290.00	89.40 PK			2.45 V	14	47.27	42.13
4	*5290.00	82.38 AV			2.45 V	14	40.25	42.13
5	5350.00	60.13 PK	74.00	-13.87	2.45 V	14	49.55	10.58
6	5350.00	50.71 AV	54.00	-3.29	2.45 V	14	40.13	10.58
7	#10580.00	56.42 PK	68.20	-11.78	1.19 V	9	40.51	15.91

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 = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.16 PK	74.00	-14.84	2.00 H	230	48.68	10.48
2	5460.00	50.68 AV	54.00	-3.32	2.00 H	230	40.20	10.48
3	#5470.00	59.40 PK	68.20	-8.80	2.00 H	230	49.00	10.40
4	*5530.00	86.20 PK			2.00 H	230	44.09	42.11
5	*5530.00	79.44 AV			2.00 H	230	37.33	42.11
6	#5725.00	59.51 PK	68.20	-8.69	2.00 H	230	48.51	11.00
7	11060.00	57.38 PK	74.00	-16.62	1.49 H	202	40.84	16.54
8	11060.00	47.51 AV	54.00	-6.49	1.49 H	202	30.97	16.54
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	61.61 PK	74.00	-12.39	2.00 V	319	51.13	10.48
2	5460.00	52.96 AV	54.00	-1.04	2.00 V	319	42.48	10.48
3	#5470.00	61.95 PK	68.20	-6.25	2.00 V	319	51.55	10.40
4	*5530.00	95.38 PK			2.00 V	319	53.27	42.11
5	*5530.00	88.74 AV			2.00 V	319	46.63	42.11
6	#5725.00	59.44 PK	68.20	-8.76	2.00 V	319	48.44	11.00
7	11060.00	57.36 PK	74.00	-16.64	2.00 V	200	40.82	16.54
8	11060.00	47.66 AV	54.00	-6.34	2.00 V	200	31.12	16.54

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 = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.75 PK	74.00	-14.25	2.27 H	238	49.27	10.48
2	5460.00	50.67 AV	54.00	-3.33	2.27 H	238	40.19	10.48
3	#5470.00	59.82 PK	68.20	-8.38	2.27 H	238	49.42	10.40
4	*5610.00	94.75 PK			2.27 H	238	52.58	42.17
5	*5610.00	87.52 AV			2.27 H	238	45.35	42.17
6	#5725.00	59.68 PK	68.20	-8.52	2.27 H	238	48.68	11.00
7	11220.00	57.23 PK	74.00	-16.77	1.12 H	357	40.11	17.12
8	11220.00	47.54 AV	54.00	-6.46	1.12 H	357	30.42	17.12
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.82 PK	74.00	-14.18	2.00 V	240	49.34	10.48
2	5460.00	50.67 AV	54.00	-3.33	2.00 V	240	40.19	10.48
3	#5470.00	60.23 PK	68.20	-7.97	2.00 V	240	49.83	10.40
4	*5610.00	99.44 PK			2.00 V	240	57.27	42.17
5	*5610.00	92.47 AV			2.00 V	240	50.30	42.17
6	#5725.00	59.87 PK	68.20	-8.33	2.00 V	240	48.87	11.00
7	11220.00	57.84 PK	74.00	-16.16	1.15 V	260	40.72	17.12
8	11220.00	47.88 AV	54.00	-6.12	1.15 V	260	30.76	17.12

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 = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.97 PK	74.00	-14.03	1.98 H	236	49.49	10.48
2	5460.00	50.52 AV	54.00	-3.48	1.98 H	236	40.04	10.48
3	#5470.00	60.21 PK	68.20	-7.99	1.98 H	236	49.81	10.40
4	*5690.00	95.48 PK			1.98 H	236	53.13	42.35
5	*5690.00	88.53 AV			1.98 H	236	46.18	42.35
6	11380.00	54.87 PK	74.00	-19.13	1.08 H	284	38.32	16.55
7	11380.00	45.29 AV	54.00	-8.71	1.08 H	284	28.74	16.55
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.15 PK	74.00	-14.85	1.89 V	240	48.67	10.48
2	5460.00	51.05 AV	54.00	-2.95	1.89 V	240	40.57	10.48
3	#5470.00	60.87 PK	68.20	-7.33	1.89 V	240	50.47	10.40
4	*5690.00	100.27 PK			1.89 V	240	57.92	42.35
5	*5690.00	93.60 AV			1.89 V	240	51.25	42.35
6	11380.00	54.86 PK	74.00	-19.14	1.48 V	93	38.31	16.55
7	11380.00	45.19 AV	54.00	-8.81	1.48 V	93	28.64	16.55

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.

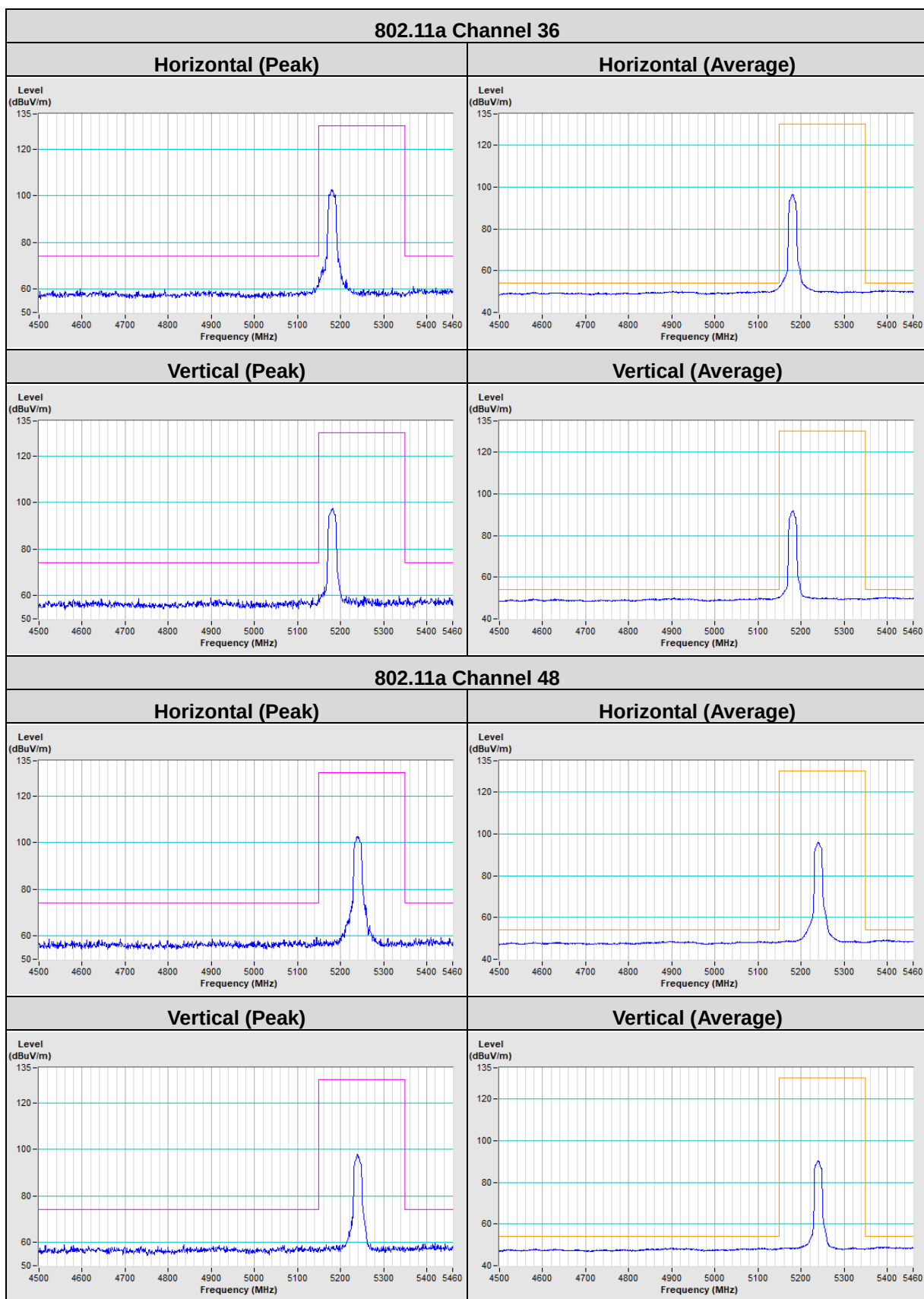
RF Mode	TX 802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 60% RH
Tested By	Karl Lee		

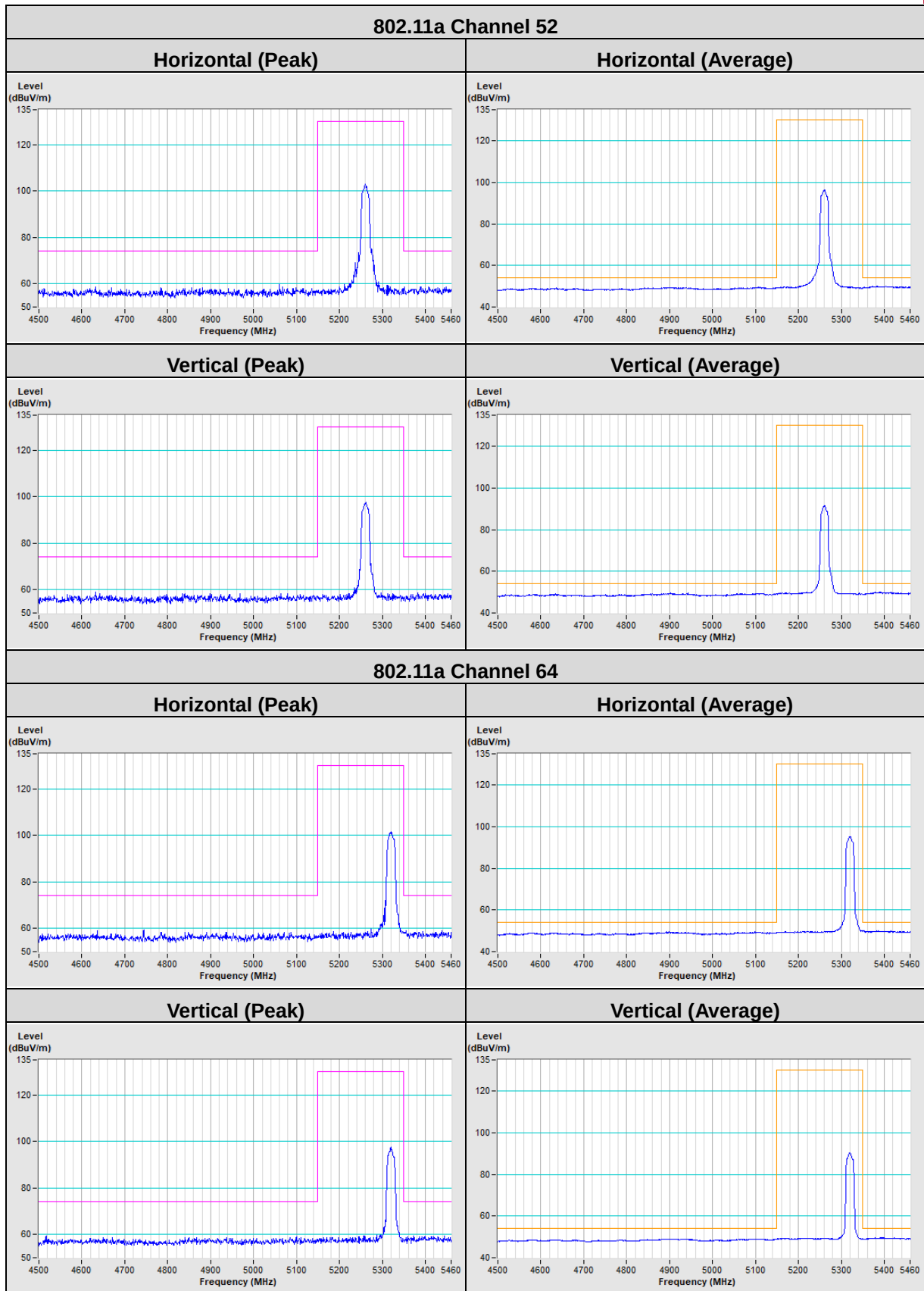
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.23	60.71 PK	68.20	-7.49	2.07 H	237	50.24	10.47
2	*5775.00	94.57 PK			2.07 H	237	52.03	42.54
3	*5775.00	87.30 AV			2.07 H	237	44.76	42.54
4	#5985.99	60.62 PK	68.20	-7.58	2.07 H	237	49.11	11.51
5	11550.00	57.83 PK	74.00	-16.17	1.15 H	54	41.03	16.80
6	11550.00	47.92 AV	54.00	-6.08	1.15 H	54	31.12	16.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5627.23	63.41 PK	68.20	-4.79	1.74 V	321	52.95	10.46
2	*5775.00	102.41 PK			1.74 V	321	59.87	42.54
3	*5775.00	95.56 AV			1.74 V	321	53.02	42.54
4	#5981.58	60.12 PK	68.20	-8.08	1.74 V	321	48.65	11.47
5	11550.00	58.06 PK	74.00	-15.94	1.68 V	5	41.26	16.80
6	11550.00	48.12 AV	54.00	-5.88	1.68 V	5	31.32	16.80

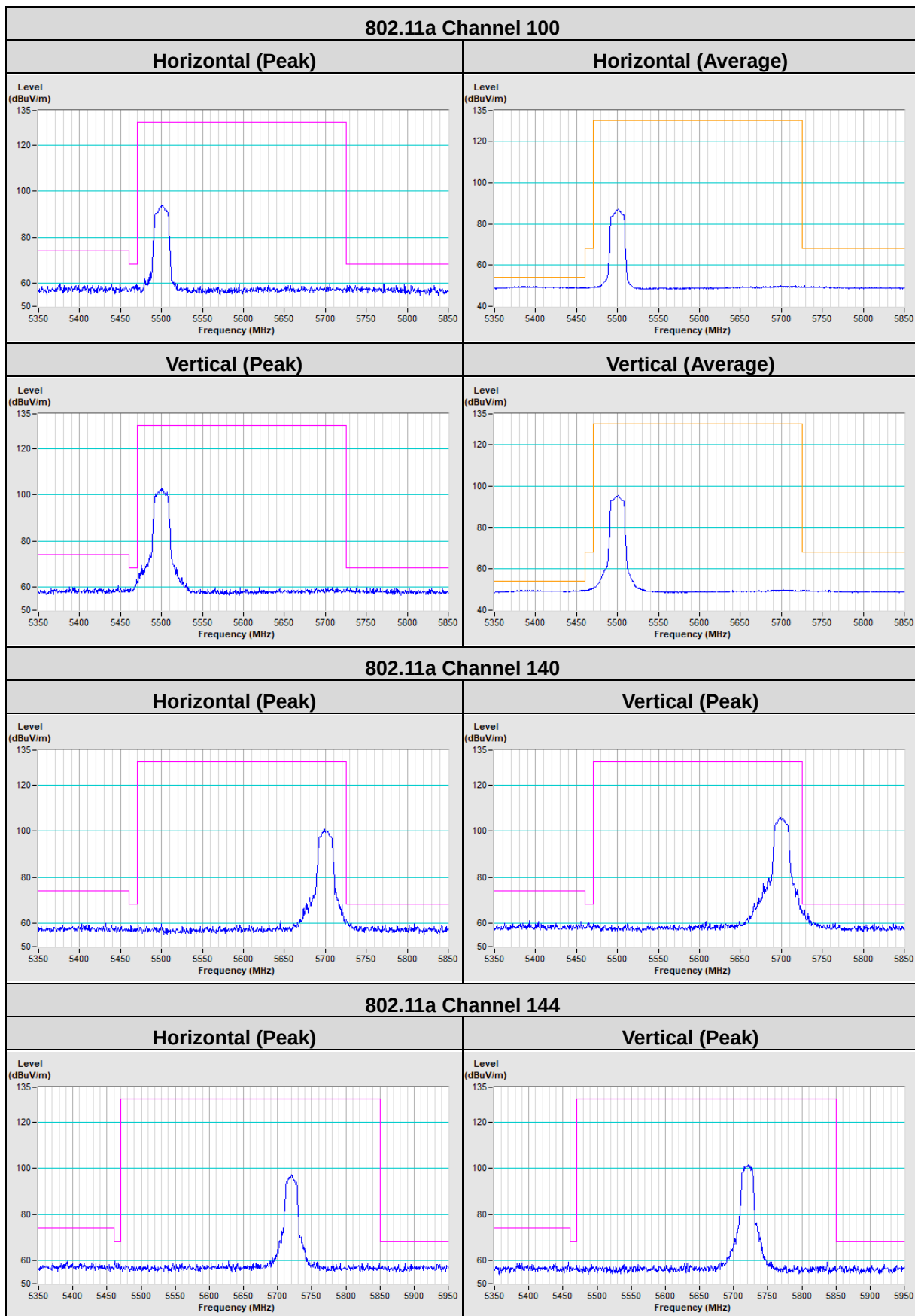
Remarks:

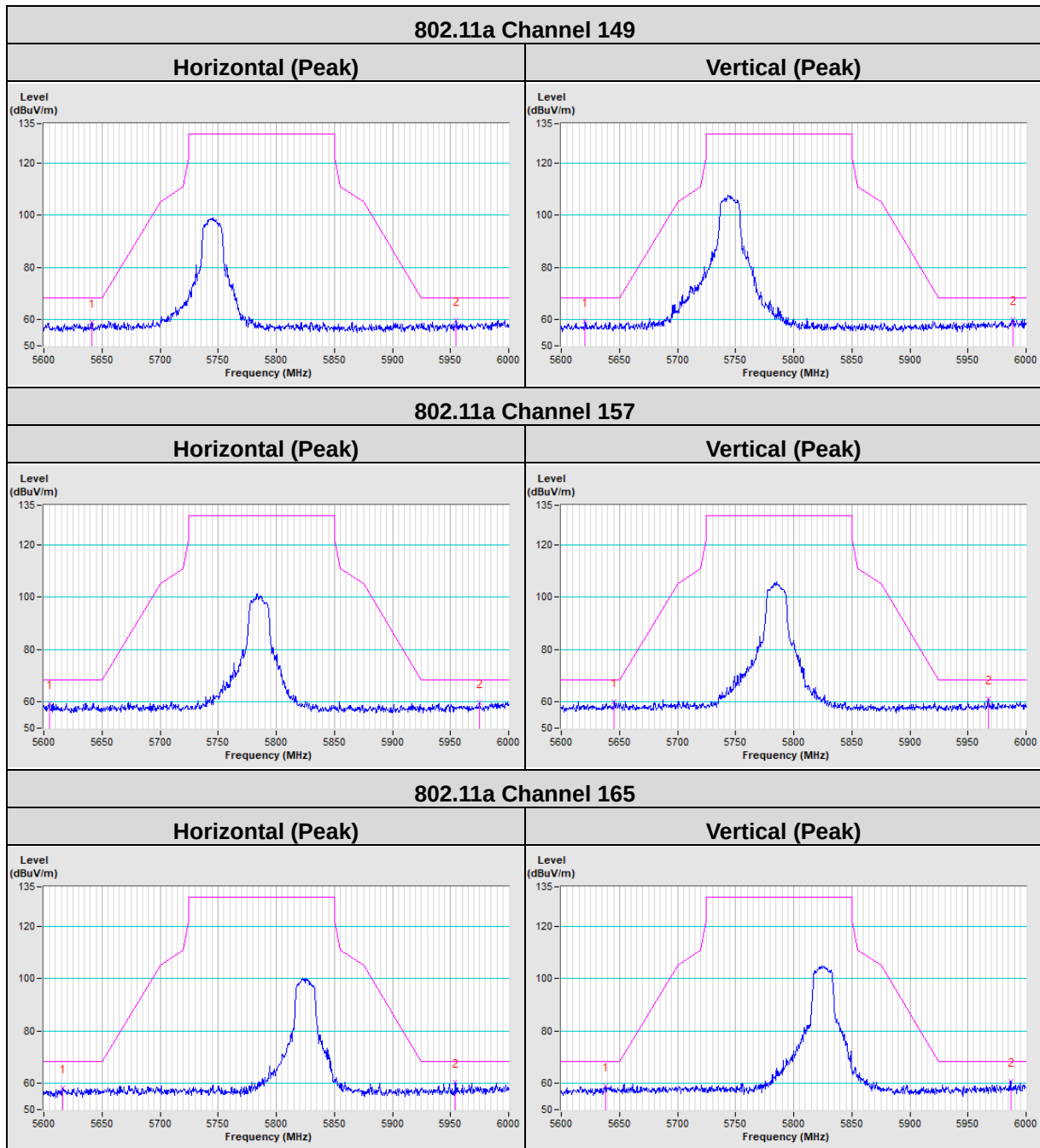
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

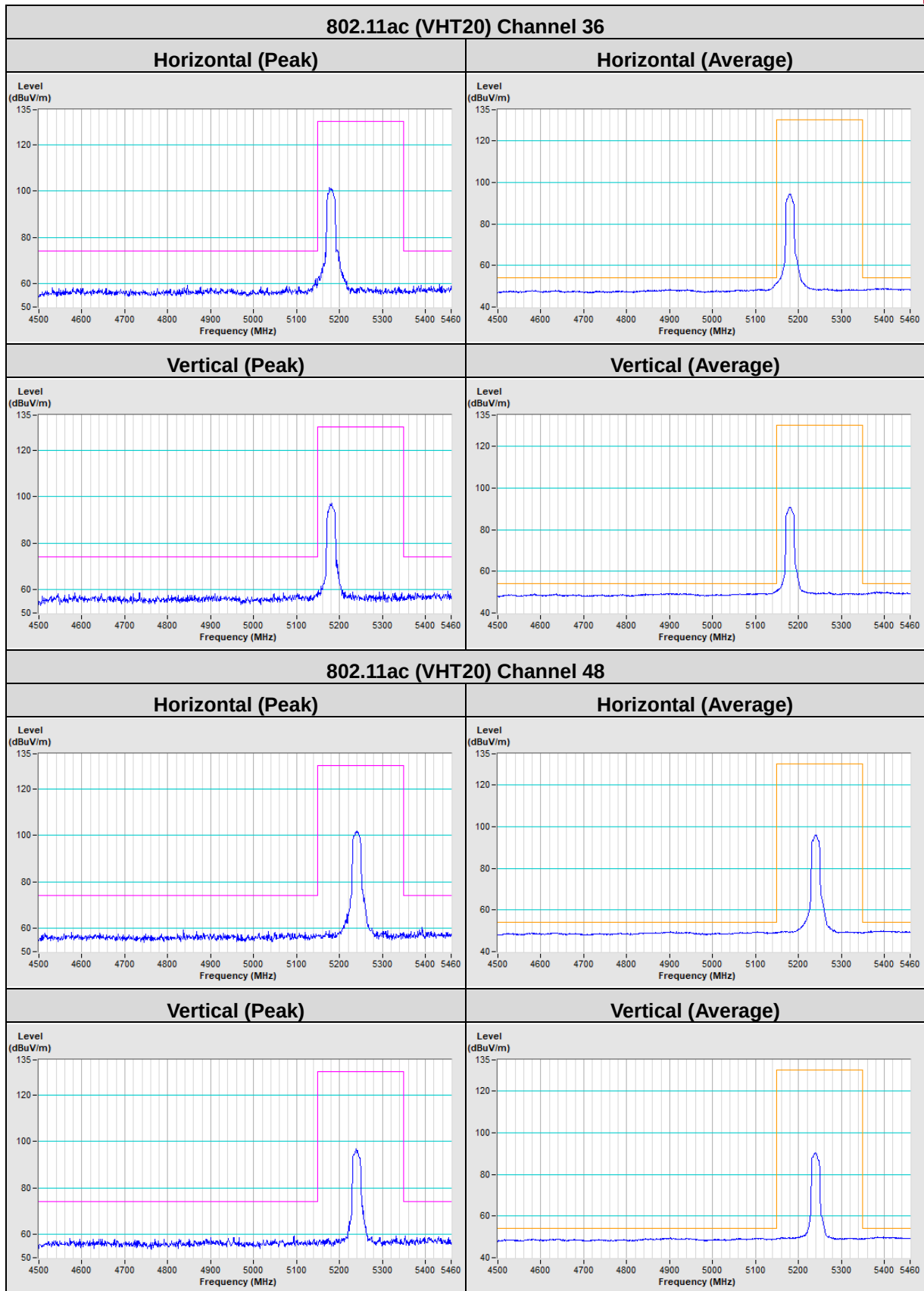
Plot of Band Edge

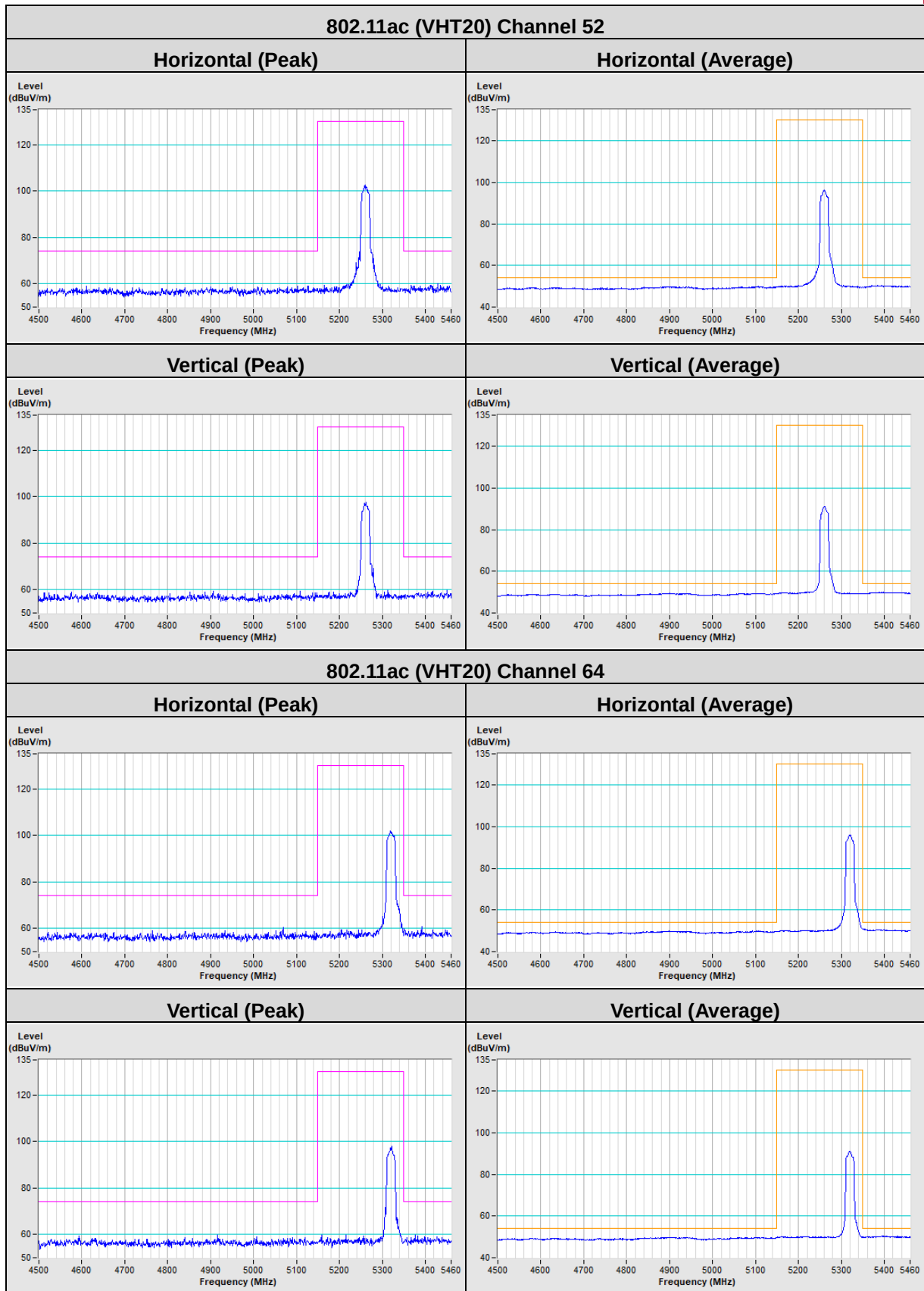


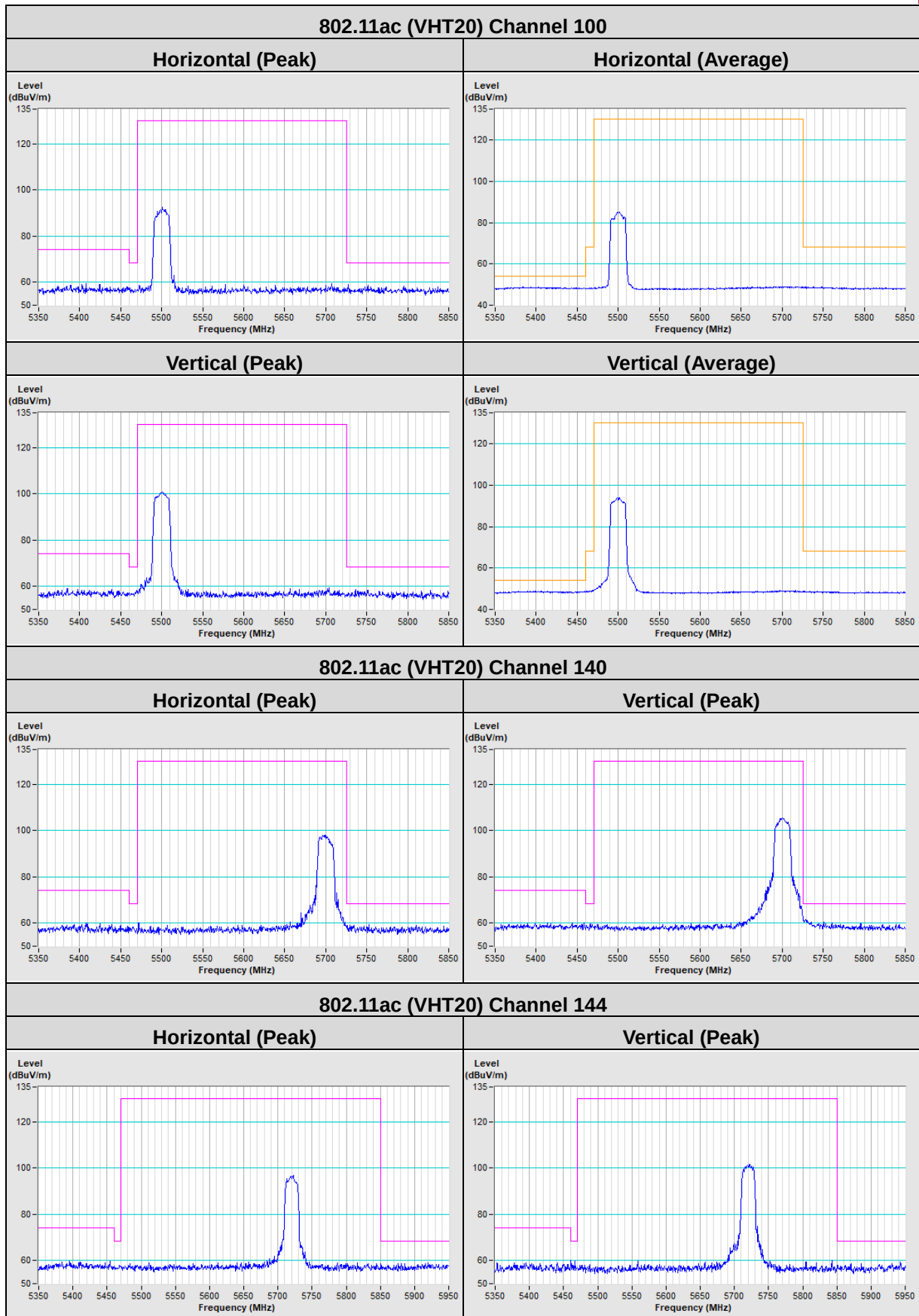


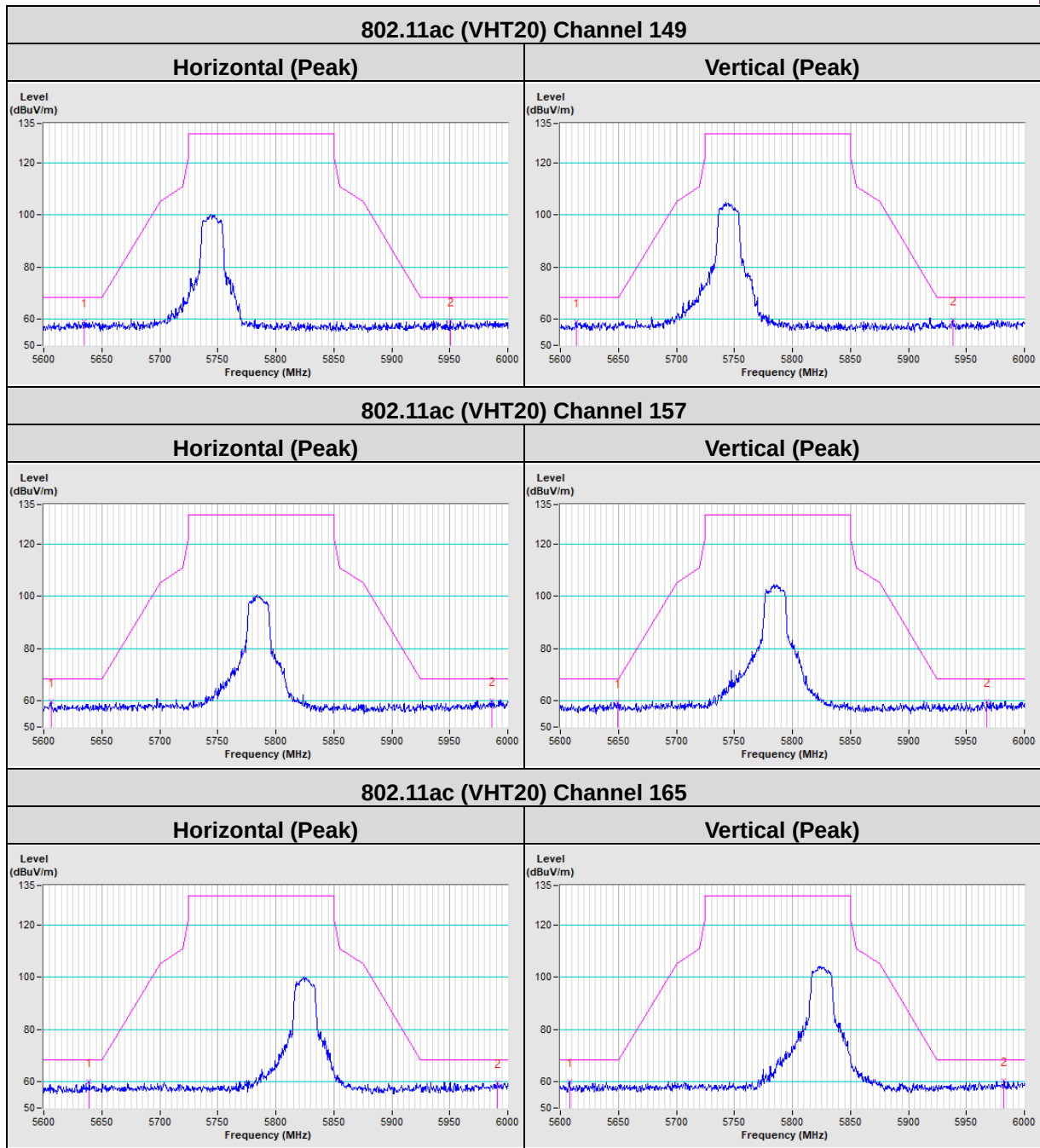


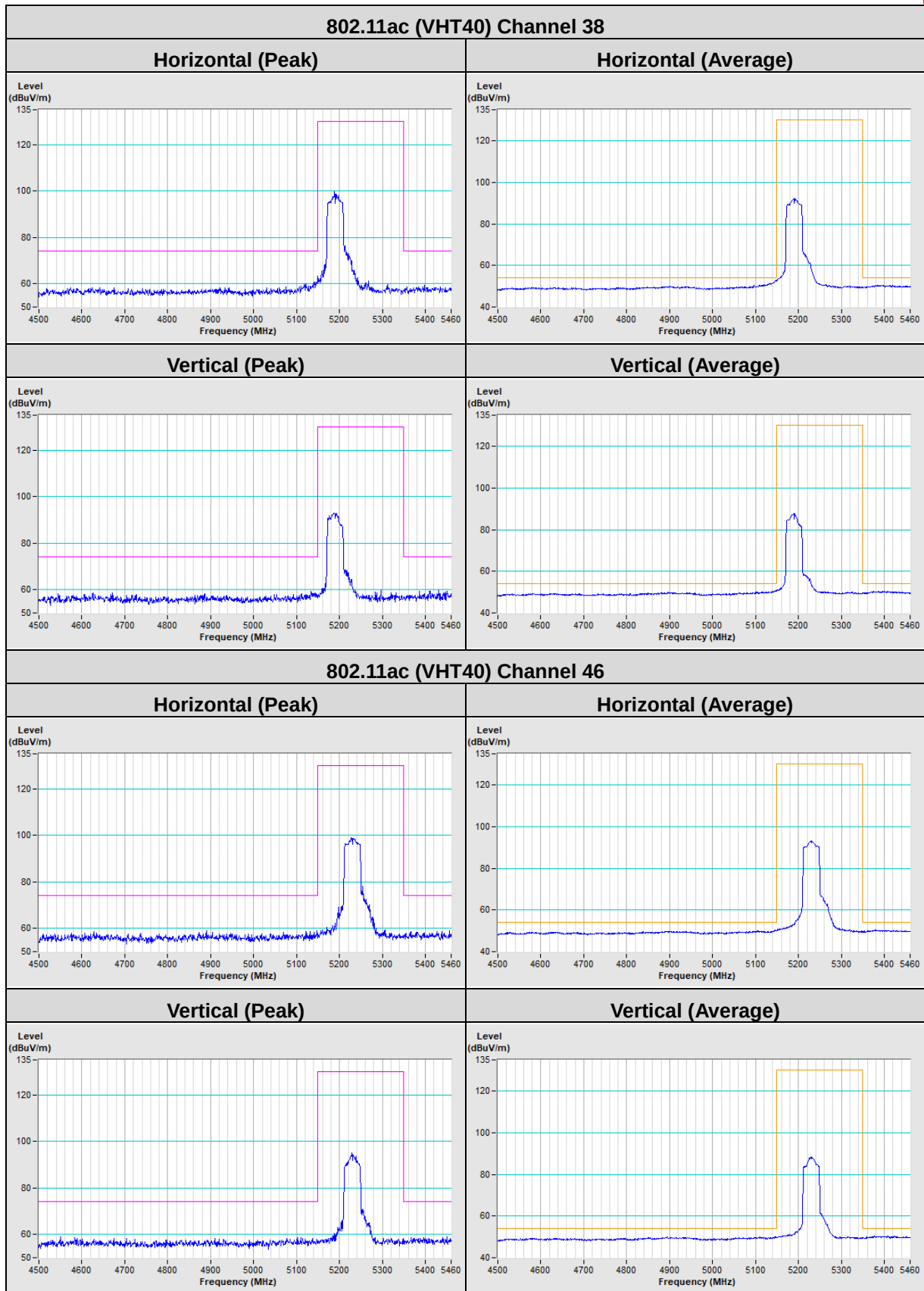


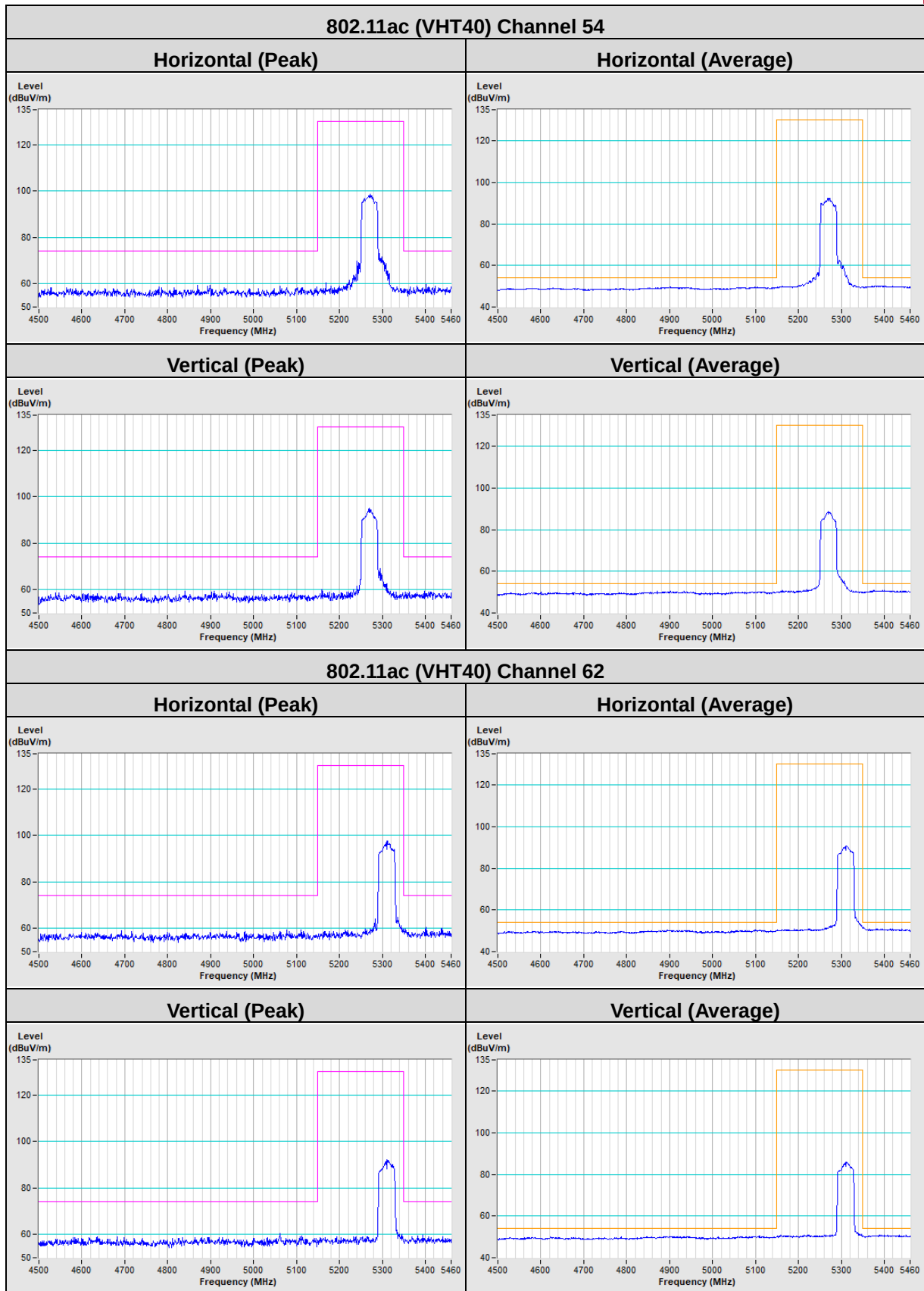


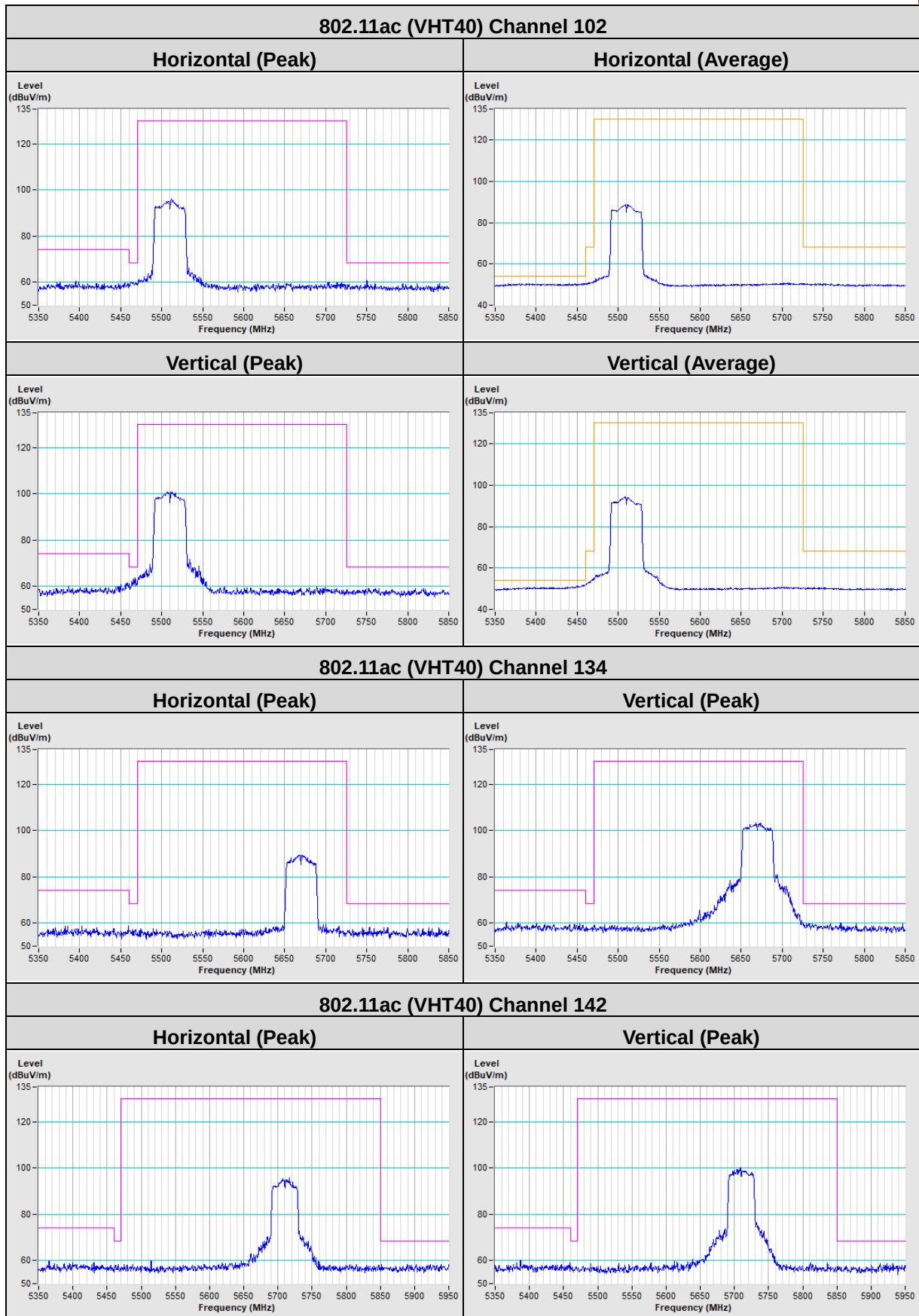


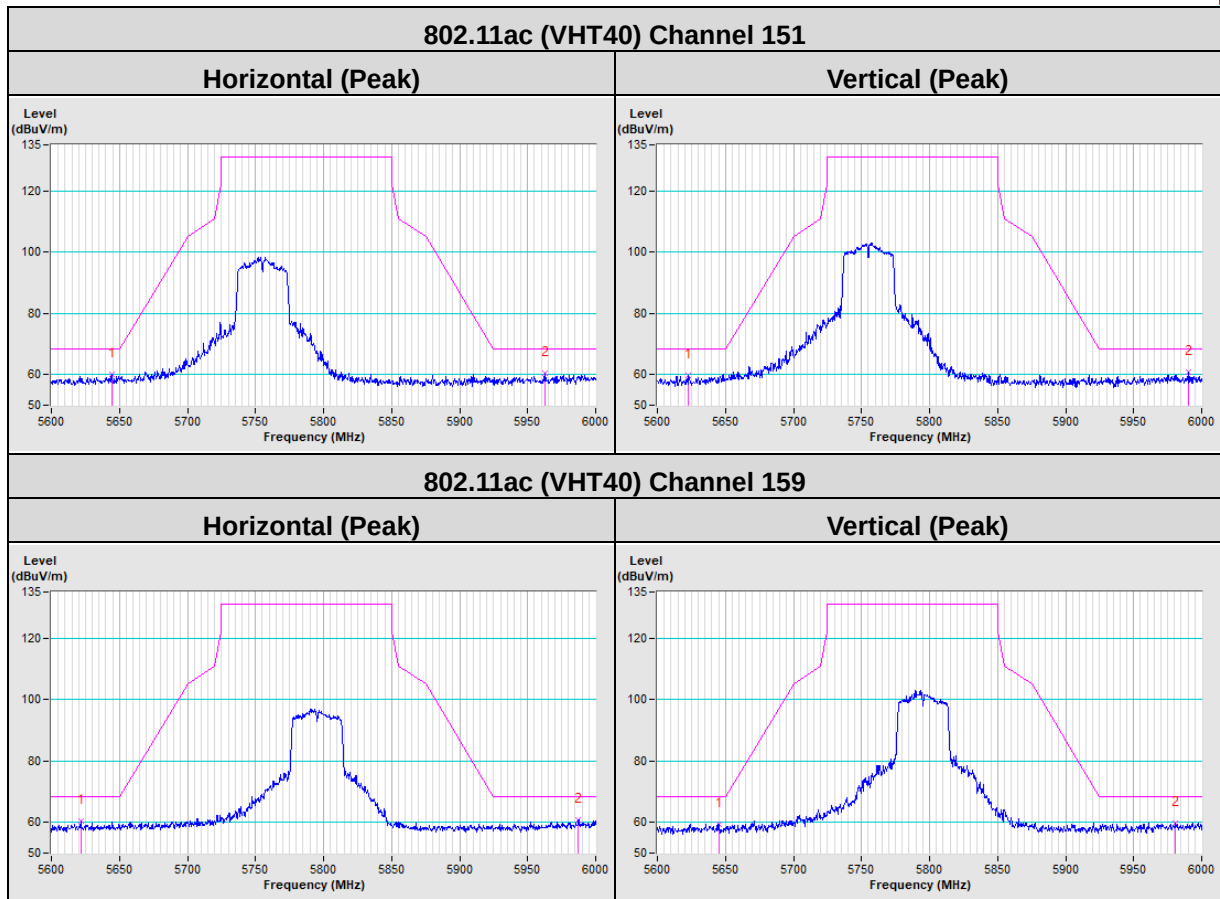


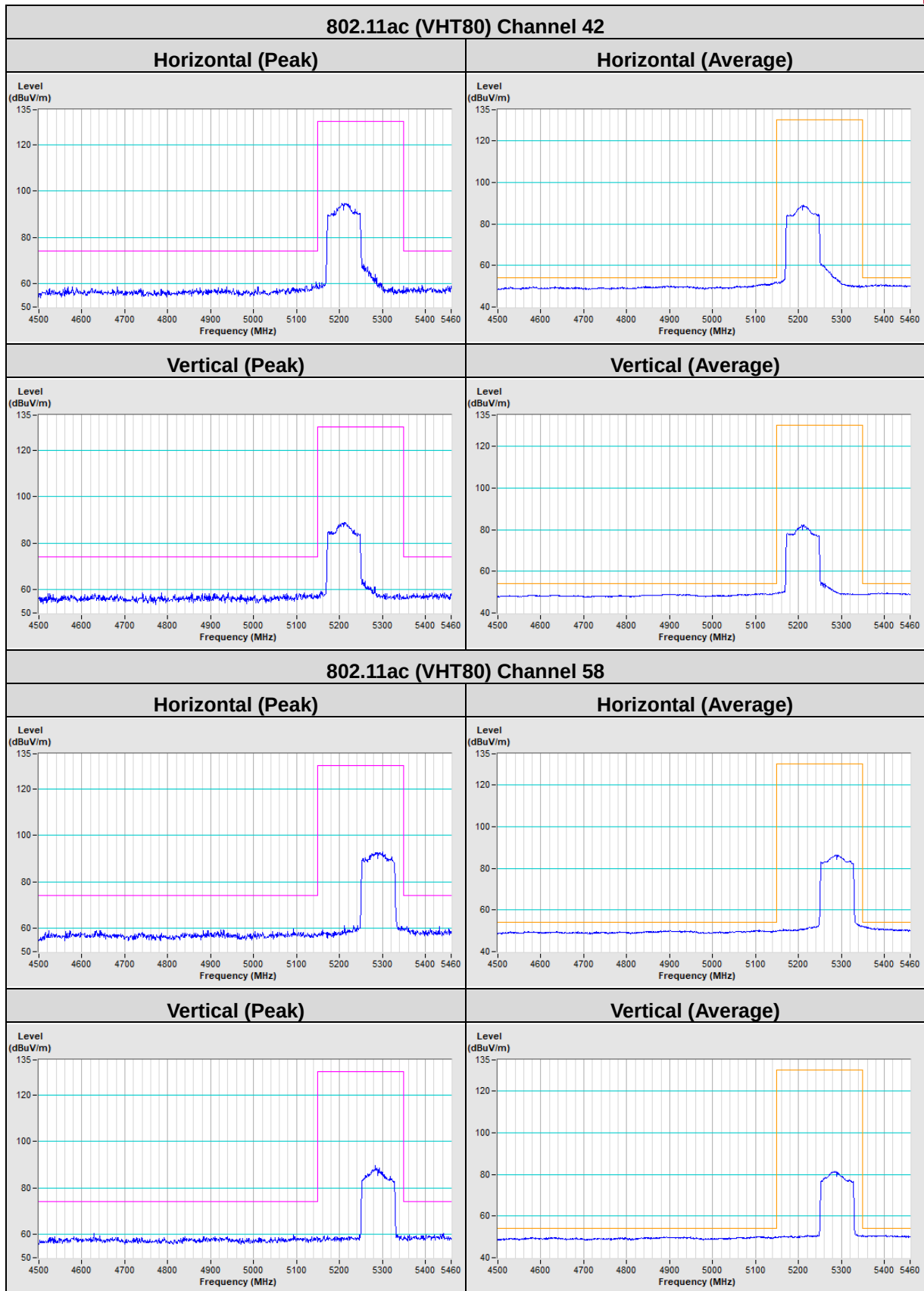


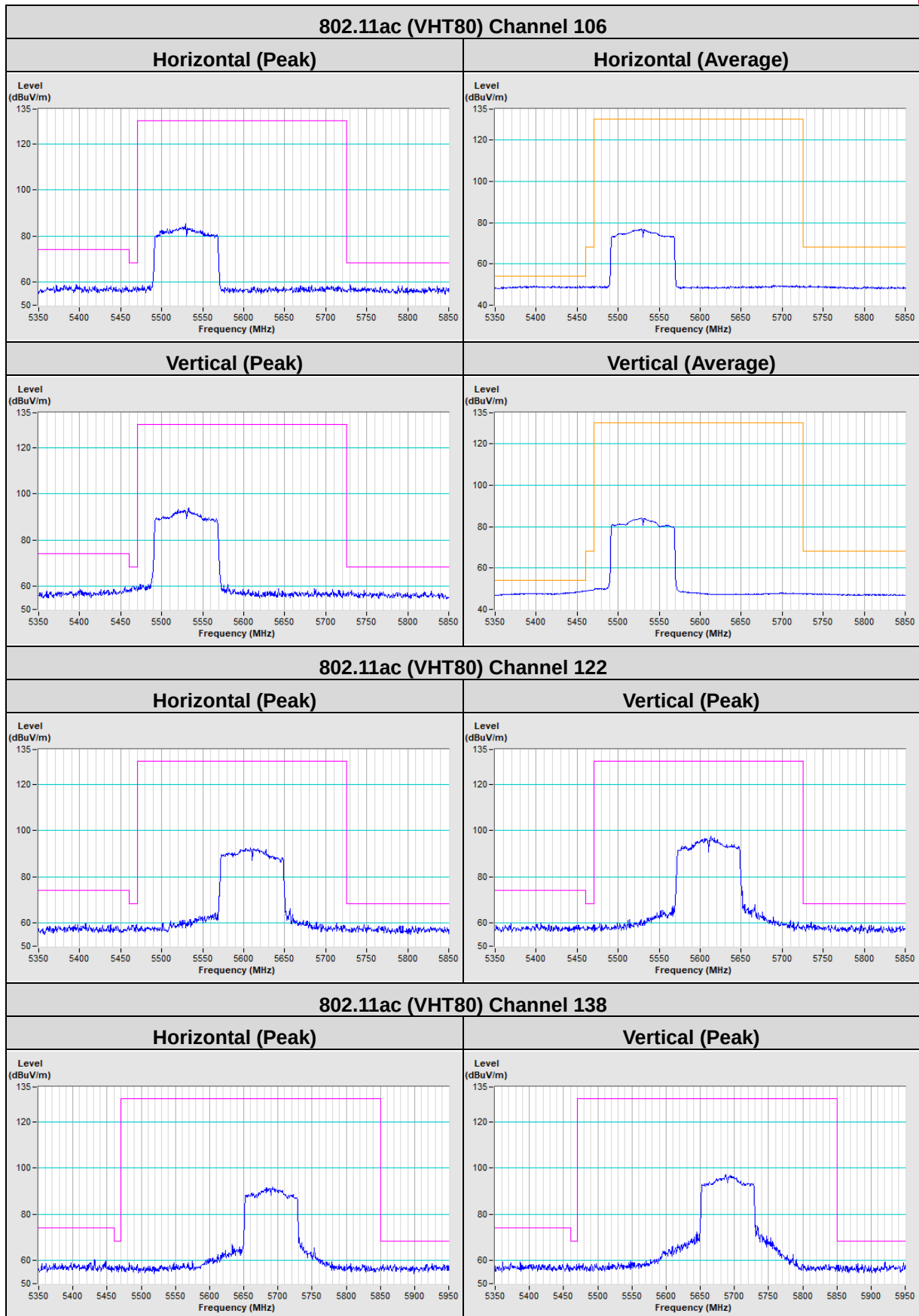


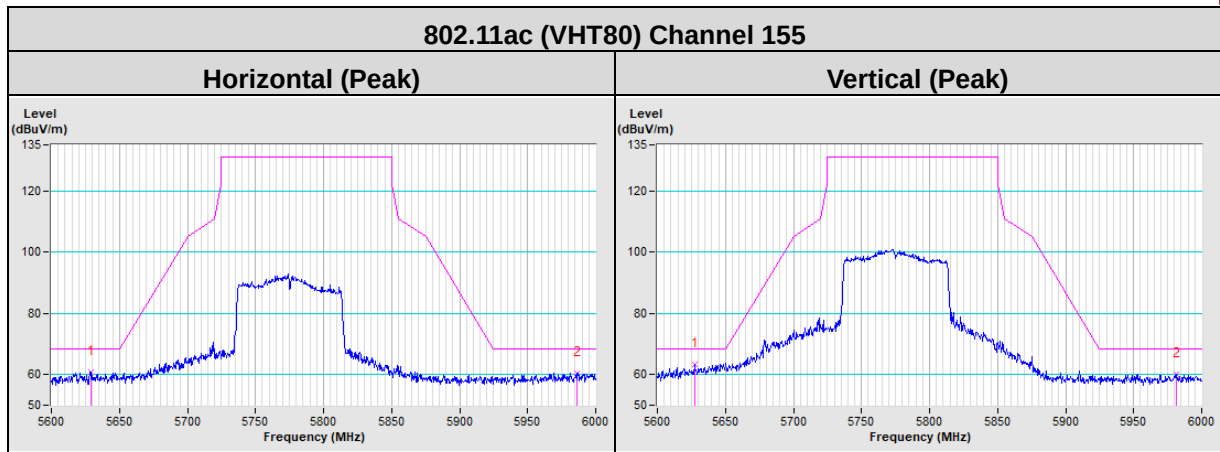












8 Pictures of Test Arrangements

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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