TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIU-WTW-P22100570-1

FCC ID: 2AUS4-NFE1

Product: Video conferencing devices

Brand: neat.

Model No.: NF-E1

Received Date: 2022/10/30

Test Date: 2022/11/23 ~ 2023/2/23

Issued Date: 2023/4/6

Applicant: Neatframe Limited

Address: Cannon Green, 27 Bush Lane, London, EC4R 0AA, United Kingdom

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. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

FCC Registration / Designation Number: 198487 / TW2021

Approved by: Jeremy Lin , **Date:** 2023/4/6

Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEIU-WTW-P22100570-1	Original release.	2023/4/6

1 Certificate

Product:	Video conferencing devices
Brand:	neat.
Test Model:	NF-E1
Sample Status:	Engineering sample
Applicant:	Neatframe Limited
Test Date:	2022/11/23 ~ 2023/2/23
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 KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.85 dB at 0.53805 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.4 dB at 82.96 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 10600.00 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:

Parameter	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	3.00 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.38 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.83 dB
	6 GHz ~ 18 GHz	5.37 dB
	18 GHz ~ 40 GHz	5.24 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	Video conferencing devices
Brand	neat.
Test Model	NF-E1
Status of EUT	Engineering sample
Power Supply Rating	AC: 100-240Vac 50/60Hz 1A
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):24 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):11 802.11ac (VHT80), 802.11ax (HE80):5
Output Power	5.18 GHz ~ 5.24 GHz : 68.949 mW (18.39 dBm) 5.26 GHz ~ 5.32 GHz : 70.654 mW (18.49 dBm) 5.5 GHz ~ 5.7 GHz : 75.698 mW (18.79 dBm) 5.745 GHz ~ 5.825 GHz : 84.238 mW (19.26 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Specification
LAN cable	Shielded 3m
AC cable	Non-shielded 3m
HDMI cable	Shielded 2m

2. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
3. WLAN 2.4 GHz & WLAN 5 GHz & Bluetooth technology cannot transmit at same time.
4. The EUT does not support Partial RU technology.
5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	Gain (dBi)		Antenna Type	Connector Type
	Max.	Min.		
Ant1	3.21	-2.04	PIFA	ipex(MHF)
Ant2	3.57	0.07		

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.		

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5700 MHz

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

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

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

FOR 5745 ~ 5825 MHz:

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

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: XYZ 3-axis. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	1. X/ Y/ Z Worst Condition: X Axis for Unwanted Emission above 1GHz and Unwanted Emission below 1GHz.

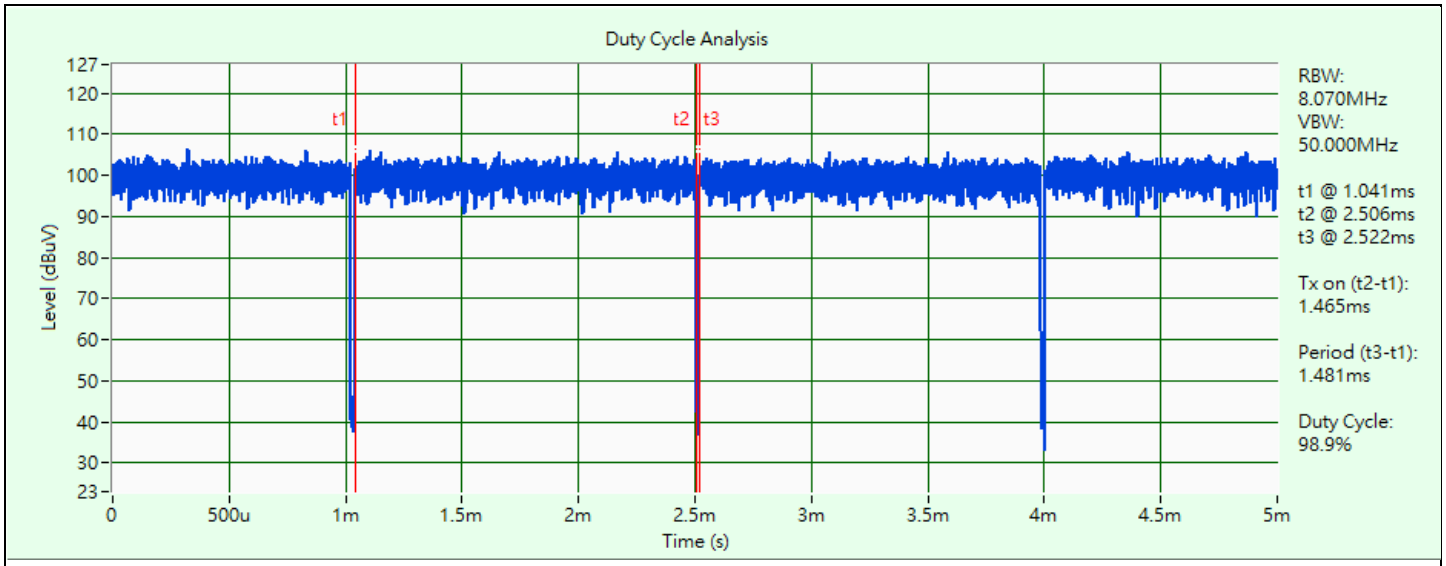
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140	BPSK	6Mb/s
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0

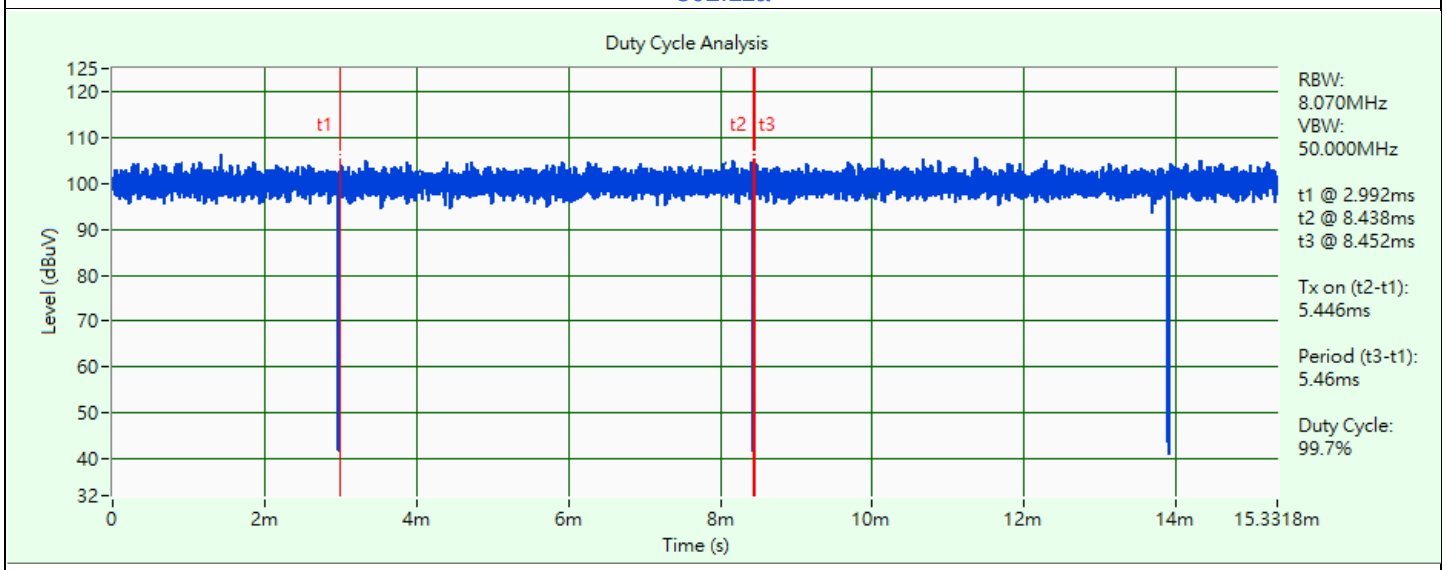
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Frequency Stability	802.11a	-	36	un-modulation	-
AC Power Conducted Emissions	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 155	BPSK	MCS0

3.5 Duty Cycle of Test Signal

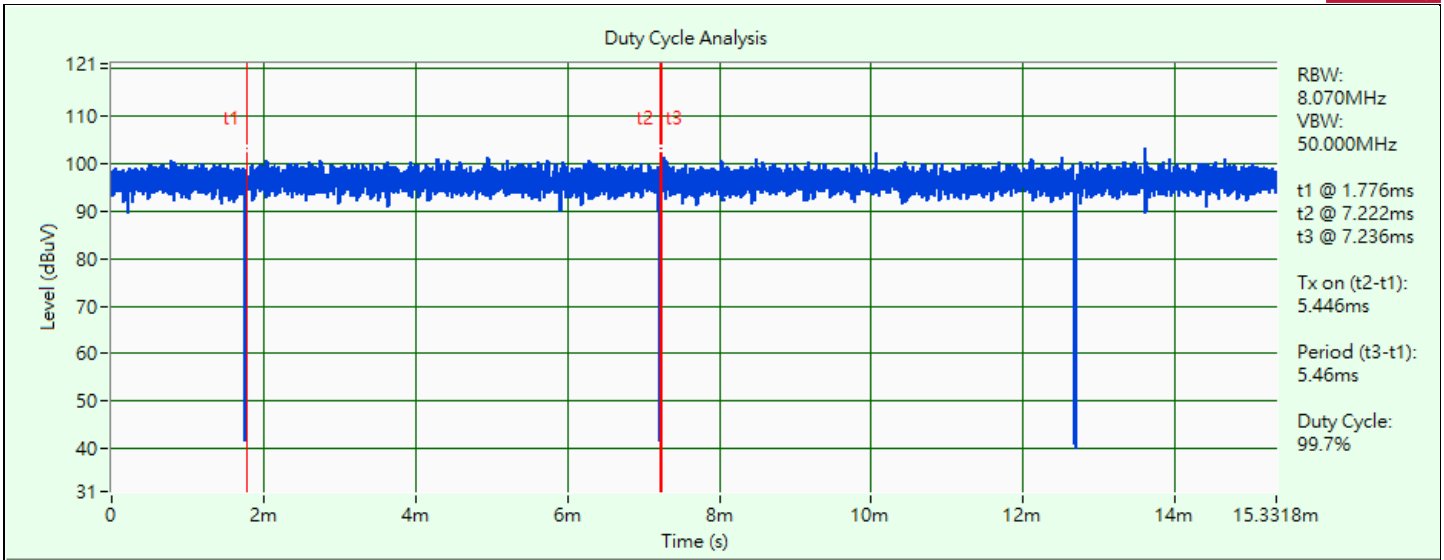
802.11a: Duty cycle = 1.465 ms / 1.481 ms x 100% = 98.9%
802.11ax (HE20): Duty cycle = 5.446 ms / 5.46 ms x 100% = 99.7%
802.11ax (HE40): Duty cycle = 5.446 ms / 5.46 ms x 100% = 99.7%
802.11ax (HE80): Duty cycle = 5.446 ms / 5.46 ms x 100% = 99.7%



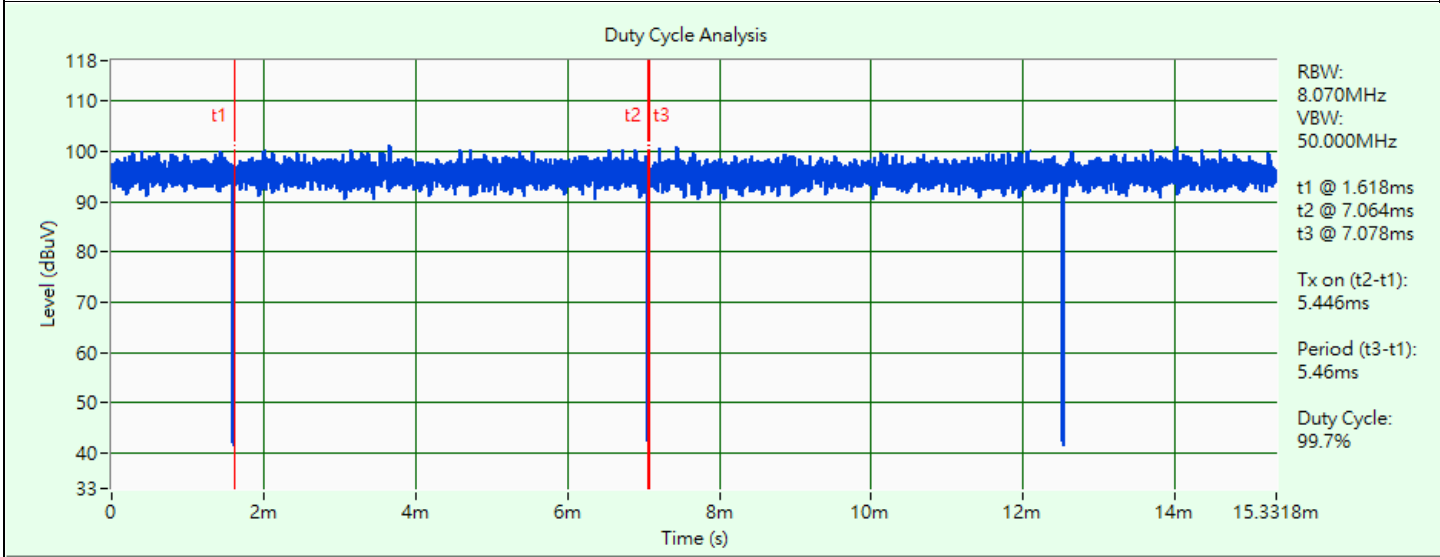
802.11a



802.11ax (HE20)



802.11ax (HE40)

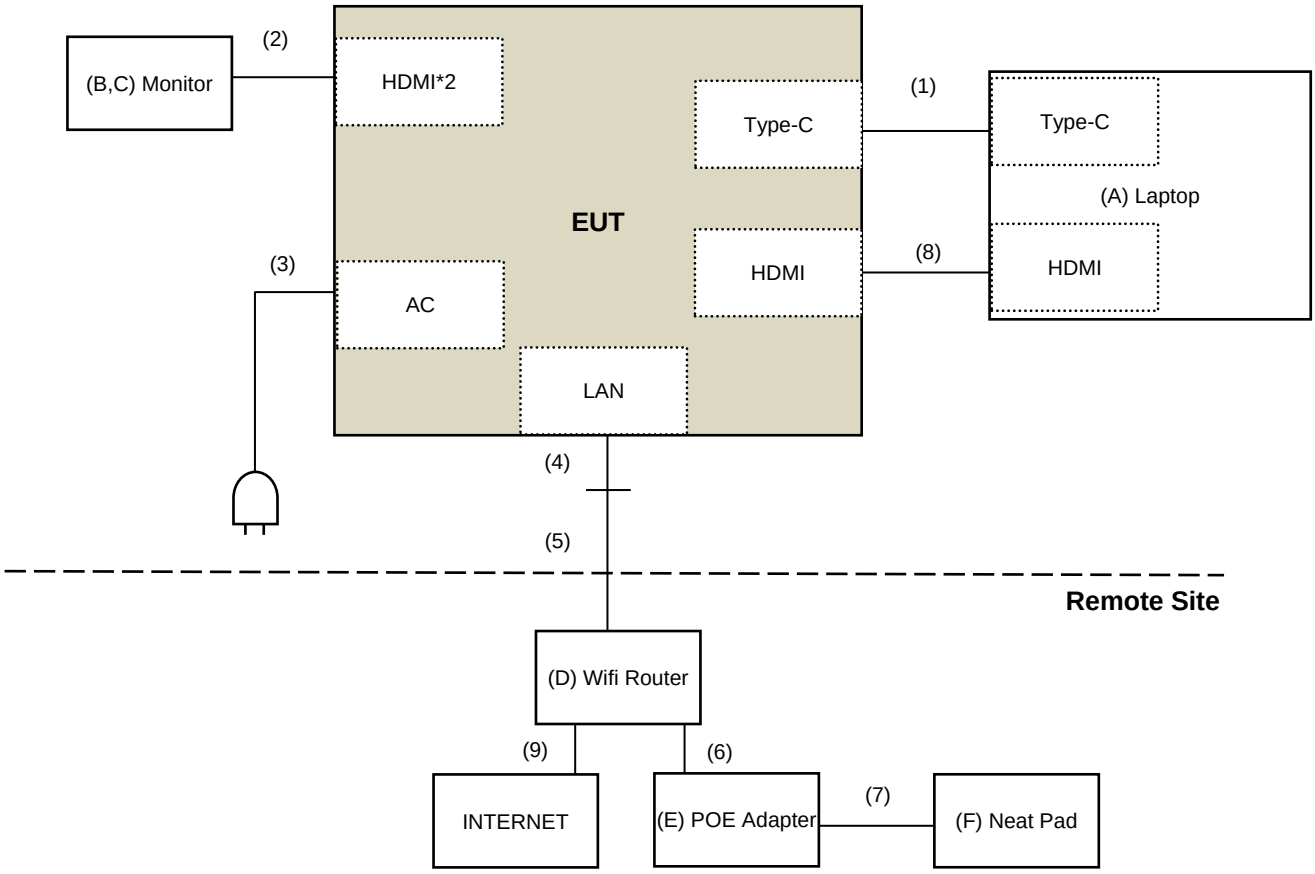


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT v4.0.00204.0) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	LENOVO	T480	PF1EZSAW	N/A	Provided by Lab
B	Monitor	ASUS	PA279CV	M7LMTF235971	DoC	Provided by Lab
C	Monitor	ASUS	PA279CV	M7LMTF236033	DoC	Provided by Lab
D	Wifi Router	ASUS	RT-AX88U	K8ITHP000169	MSQ-RTAXHP00	Provided by Lab
E	POE Adapter	PHIHONG	POE16R-1AFG	N/A	N/A	Supplied by applicant
F	Neat Pad	neat.	A1	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C to C cable	1	1	Yes	0	Provided by Lab
2	HDMI cable	2	2	Yes	0	Provided by Lab
3	AC power cable	1	3	No	0	Supplied by applicant
4	RJ45 (Cat. 5e) cable	1	3	Yes	0	Supplied by applicant
5	RJ45 (Cat. 5e) cable	1	10	Yes	0	Provided by Lab
6	RJ45 (Cat. 5e) cable	1	1	No	0	Provided by Lab
7	RJ45 (Cat. 5e) cable	1	1	No	0	Provided by Lab
8	HDMI cable	1	2	Yes	0	Supplied by applicant
9	RJ45 (Cat. 5e) cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MIMO Powermeasurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8
Peak Power meter Anritsu	ML2495A	0842014	2022/4/27	2023/4/26
Pulse Power Sensor Anritsu	MA2411B	0738404	2022/4/27	2023/4/26
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Temperature & Humidity Chamber TERCHY	MHU-225AU	920409	2022/6/27	2023/6/26
Voltage Meter FLUKE	179	89610322	2022/10/3	2023/10/2

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2022/12/8

4.2 RF Output Power

Refer to section 4.1 to get information of the instruments.

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

Refer to section 4.1 to get information of the instruments.

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal LYNICS	0900510	E1-011285	2022/9/19	2023/9/18
		E1-011286	2022/9/19	2023/9/18
50 Ohms Terminator LYNICS	0900510	E1-01-305	2023/2/13	2024/2/12
Attenuator STI	STI02-2200-10	NO.4	2022/9/2	2023/9/1
DC LISN R&S	ESH3-Z6	100219	2022/8/2	2023/8/1
		844950/018	2022/8/2	2023/8/1
DC LISN Schwarzbeck	NNLK 8121	8121-808	2022/4/29	2023/4/28
High Voltage Probe Schwarzbeck	TK9420	00982	2022/12/14	2023/12/13
Isolation Transformer Erika Fiedler	D-65396	017	2022/9/8	2023/9/7
LISN R&S	ENV216	101196	2022/5/24	2023/5/23
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
		8121-00759	2022/8/18	2023/8/17
	NNLK8129	8129229	2022/6/8	2023/6/7
	NSLK 8128	8128-244	2022/11/8	2023/11/7
RF Coaxial Cable Commate	5D-FB	Cable-CO5-01	2023/1/19	2024/1/18
Software BVADT	Cond_V7.3.7.4	N/A	N/A	N/A
Test Receiver R&S	ESR3	102412	2022/12/21	2023/12/20

Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2023/2/23

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
* LOOP ANTENNA EMCI	LPA600	270	2021/9/2	2023/9/1
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling/Dcoupling Network Schwarzbeck	CDNE-M2	00097	2022/6/1	2023/5/31
	CDNE-M3	00091	2022/6/1	2023/5/31
Pre_Amplifier EMCI	EMC001340	980269	2022/6/28	2023/6/27
Pre_Amplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2022/6/30	2023/6/29
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210129	2022/4/8	2023/4/7
		MY51210137	2022/6/9	2023/6/8
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. * The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA
2. The test was performed in Linkou 966 Chamber 6 (CH 6).
3. Tested Date: 2023/2/22

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Band Pass Filter MICRO-TRONICS	BRM17690	005	2022/5/26	2023/5/25
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	2022/5/26	2023/5/25
Horn Antenna EMCO	3115	00028257	2022/11/13	2023/11/12
Horn Antenna ETS-Lindgren	3117-PA	00215857	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	212	2022/10/20	2023/10/19
Notch Filter MICRO-TRONICS	BRC50703-01	010	2022/5/26	2023/5/25
Pre-amplifier HP	8449B	3008A01201	2022/2/17	2023/2/16
Pre-amplifier (18GHz-40GHz) EMCI	EMC184045B	980175	2022/9/3	2023/9/2
Pre_Amplifier EMCI	EMC0126545	980076	2022/2/17	2023/2/16
	EMC184045B	980235	2022/2/17	2023/2/16
RF Coaxial Cable EM	EM102-KMKM-3.5+1M	EM102-KMKM-3.5+1M-01	2022/7/7	2023/7/6
RF Coaxial Cable EMCI	EMC104	190801	2022/7/7	2023/7/6
		190804	2022/7/7	2023/7/6
RF Coaxial Cable HUBER SUHNER	SF-104	Cable-CH6-01	2022/9/20	2023/9/19
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210129	2022/4/8	2023/4/7
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2022/11/23 ~ 2022/11/29

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 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	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access 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)

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

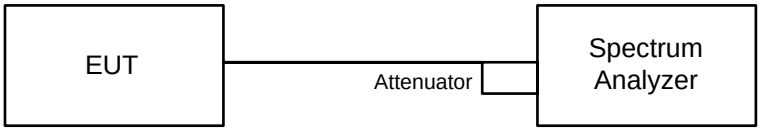
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



6.1.2 Test Procedure

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

6.2 RF Output Power

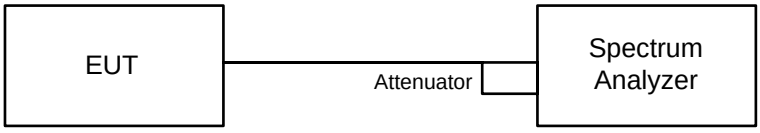
6.2.1 Test Setup

6.2.2 Test Procedure

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Record the max value

For specified measurement bandwidth 500 kHz:
Method SA-1

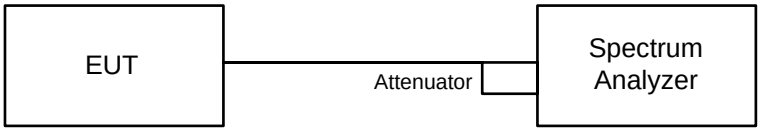
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500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

For specified measurement bandwidth 500 kHz:
Method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. 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 = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
h. Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

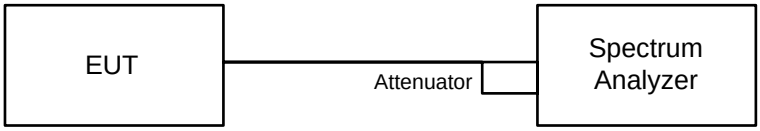


6.4.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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

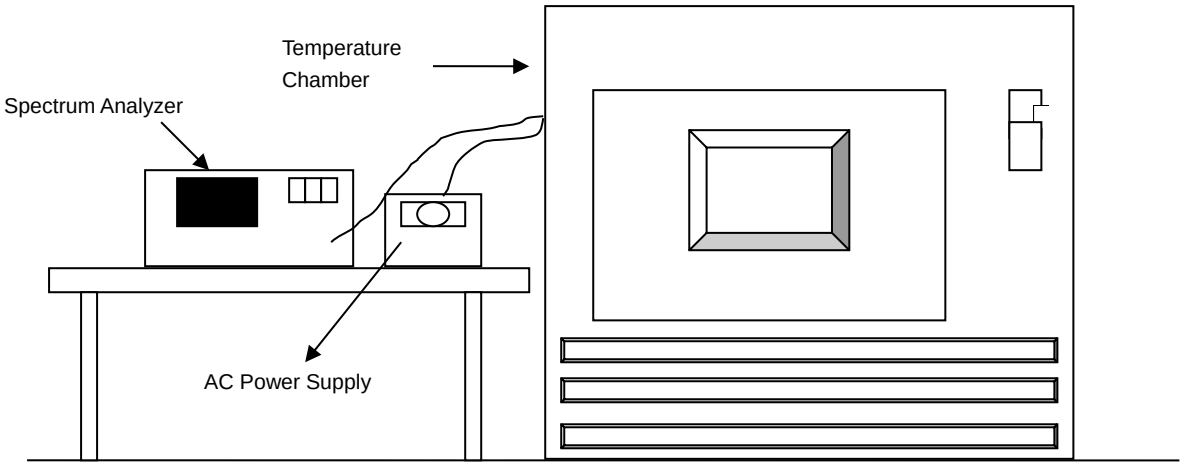


6.5.2 Test Procedure

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

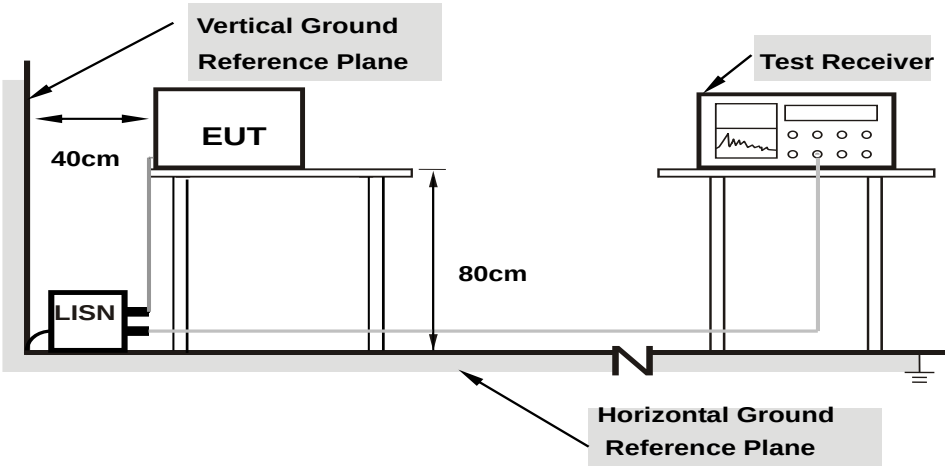


6.6.2 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
b. Turn the EUT on and couple its output to a spectrum analyzer.
c. Turn the EUT off and set the chamber to the highest temperature specified.
d. 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.
e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
f. 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

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

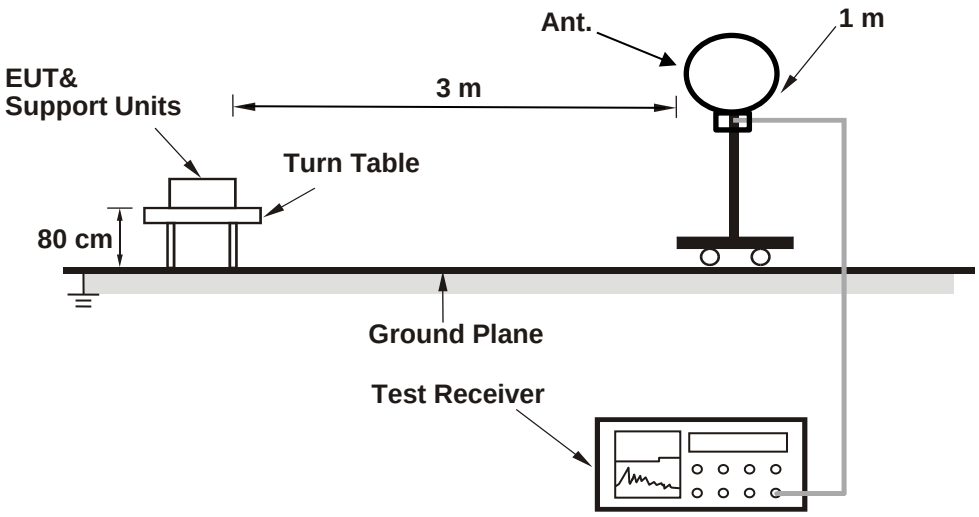
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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.

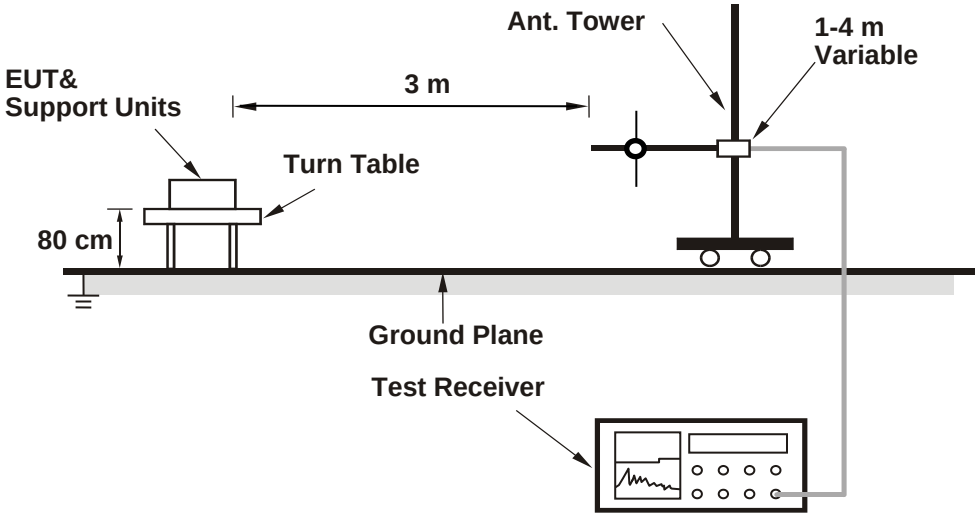
6.8 Unwanted Emissions below 1 GHz

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.

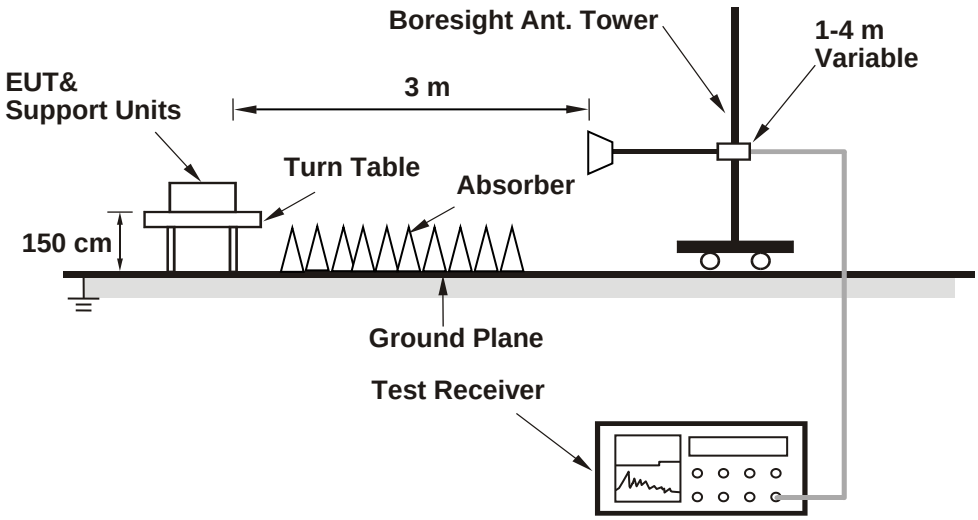
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

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

6.9.2 Test Procedure

a. 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.

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 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:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.20	19.48
60	5300	19.26	18.94
64	5320	19.13	19.09
100	5500	19.22	18.97
116	5580	19.52	18.92
140	5700	19.36	19.38

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.20	23.83	<	24
60	5300	18.94	23.77	<	24
64	5320	19.09	23.8	<	24
100	5500	18.97	23.78	<	24
116	5580	18.92	23.76	<	24
140	5700	19.36	23.86	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.10	20.94
60	5300	21.00	21.02
64	5320	21.19	21.00
100	5500	21.07	20.81
116	5580	21.13	20.83
140	5700	21.20	20.81

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	20.94	24.2	>	24
60	5300	21.00	24.22	>	24
64	5320	21.00	24.22	>	24
100	5500	20.81	24.18	>	24
116	5580	20.83	24.18	>	24
140	5700	20.81	24.18	>	24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.53	41.60
62	5310	41.66	41.55
102	5510	41.84	41.71
110	5550	41.65	41.75
134	5670	41.62	41.50

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	41.53	27.18	>	24
62	5310	41.55	27.18	>	24
102	5510	41.71	27.2	>	24
110	5550	41.65	27.19	>	24
134	5670	41.50	27.18	>	24

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

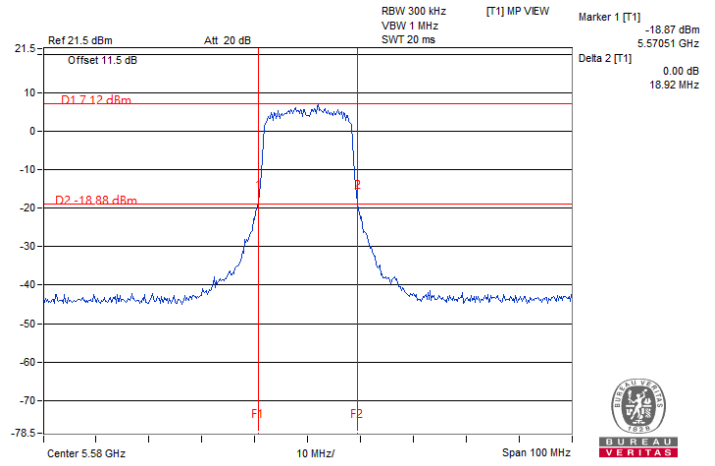
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.11	83.21
106	5530	83.02	82.99
122	5610	83.45	82.88

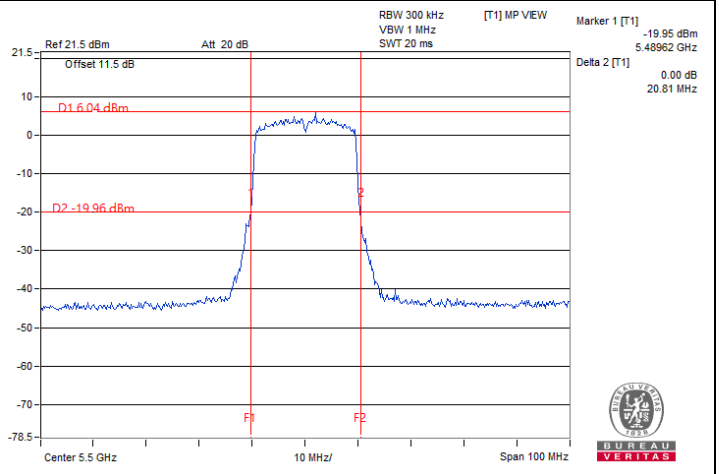
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	83.11	30.19	>	24
106	5530	82.99	30.19	>	24
122	5610	82.88	30.18	>	24

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

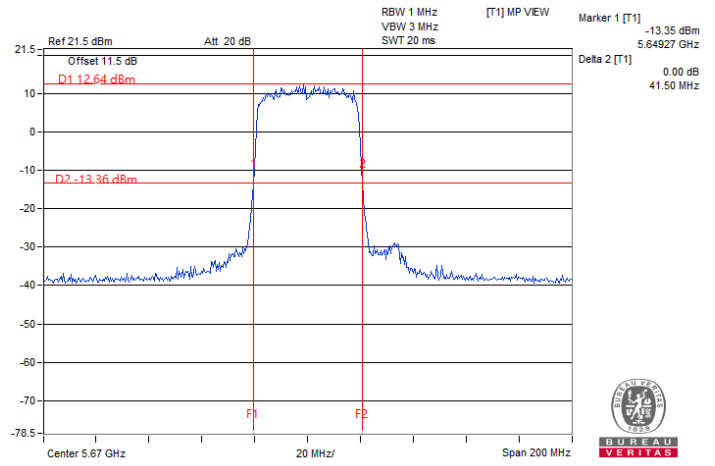
Spectrum Plot of Minimum Value



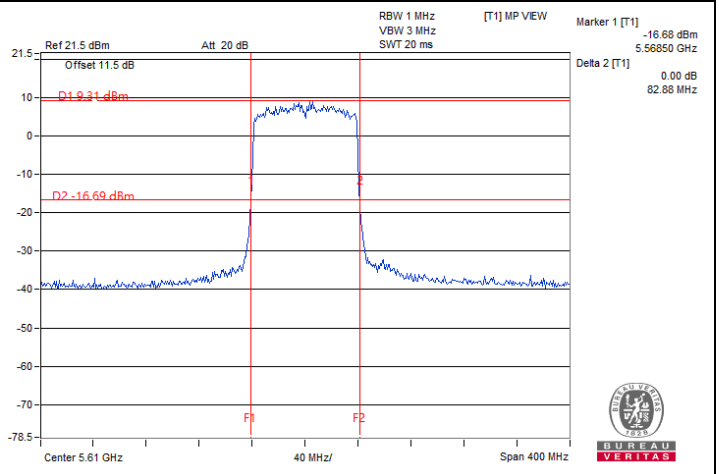
802.11a / Chain 1 : CH 116



802.11ax (HE20) / Chain 1 : CH 100



802.11ax (HE40) / Chain 1 : CH 134



802.11ax (HE80) / Chain 1 : CH 122

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.39	13.92	52.139	17.17	24	Pass
40	5200	14.34	14.07	52.691	17.22	24	Pass
48	5240	14.13	13.91	50.486	17.03	24	Pass
52	5260	15.33	14.83	64.528	18.10	23.83	Pass
60	5300	15.54	14.41	63.415	18.02	23.77	Pass
64	5320	15.23	14.07	58.87	17.70	23.8	Pass
100	5500	13.67	12.89	42.735	16.31	23.78	Pass
116	5580	15.09	14.24	58.831	17.70	23.76	Pass
140	5700	15.27	15.53	69.378	18.41	23.86	Pass
149	5745	15.45	16.26	77.342	18.88	30	Pass
157	5785	15.27	16.28	76.113	18.81	30	Pass
165	5825	15.48	15.97	74.855	18.74	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.72	14.33	56.75	17.54	24	Pass
40	5200	14.64	14.40	56.649	17.53	24	Pass
48	5240	14.32	14.20	53.342	17.27	24	Pass
52	5260	14.83	14.77	60.4	17.81	24	Pass
60	5300	15.15	14.27	59.464	17.74	24	Pass
64	5320	15.28	14.17	59.85	17.77	24	Pass
100	5500	13.47	12.71	40.897	16.12	24	Pass
116	5580	14.98	14.99	63.028	18.00	24	Pass
140	5700	15.10	15.36	66.715	18.24	24	Pass
149	5745	15.12	16.19	74.1	18.70	30	Pass
157	5785	14.99	16.20	73.237	18.65	30	Pass
165	5825	15.17	15.96	72.331	18.59	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.34	15.11	66.632	18.24	24	Pass
46	5230	15.25	15.20	66.61	18.24	24	Pass
54	5270	15.59	15.00	67.847	18.32	24	Pass
62	5310	15.72	14.52	65.639	18.17	24	Pass
102	5510	15.39	14.38	62.01	17.92	24	Pass
110	5550	15.36	15.01	66.051	18.20	24	Pass
134	5670	15.51	15.70	72.717	18.62	24	Pass
151	5755	15.65	16.53	81.706	19.12	30	Pass
159	5795	15.65	16.38	80.179	19.04	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.18	15.06	65.024	18.13	24	Pass
58	5290	15.57	14.85	66.607	18.24	24	Pass
106	5530	15.33	14.63	63.16	18.00	24	Pass
122	5610	15.34	15.45	69.273	18.41	24	Pass
155	5775	15.47	16.39	78.788	18.96	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.85	14.42	58.219	17.65	24	Pass
40	5200	14.81	14.53	58.648	17.68	24	Pass
48	5240	14.59	14.38	56.19	17.50	24	Pass
52	5260	14.99	14.89	62.382	17.95	24	Pass
60	5300	15.34	14.45	62.059	17.93	24	Pass
64	5320	15.42	14.29	61.687	17.90	24	Pass
100	5500	13.63	12.85	42.343	16.27	24	Pass
116	5580	15.08	15.14	64.869	18.12	24	Pass
140	5700	15.23	15.54	69.152	18.40	24	Pass
149	5745	15.27	16.35	76.803	18.85	30	Pass
157	5785	15.15	16.33	75.688	18.79	30	Pass
165	5825	15.28	16.10	74.467	18.72	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	15.44	15.30	68.879	18.38	24	Pass
46	5230	15.37	15.38	68.949	18.39	24	Pass
54	5270	15.78	15.16	70.654	18.49	24	Pass
62	5310	15.85	14.65	67.633	18.30	24	Pass
102	5510	15.53	14.52	64.041	18.06	24	Pass
110	5550	15.49	15.18	68.361	18.35	24	Pass
134	5670	15.71	15.85	75.698	18.79	24	Pass
151	5755	15.81	16.64	84.238	19.26	30	Pass
159	5795	15.85	16.48	82.922	19.19	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.33	15.24	67.539	18.30	24	Pass
58	5290	15.73	14.95	68.672	18.37	24	Pass
106	5530	15.49	14.83	65.809	18.18	24	Pass
122	5610	15.47	15.60	71.545	18.55	24	Pass
155	5775	15.57	16.58	81.557	19.11	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.57 dBi < 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	0.35	0.13	3.25	10.60	Pass
40	5200	0.35	0.12	3.25	10.60	Pass
48	5240	0.22	0.06	3.15	10.60	Pass
52	5260	1.42	1.37	4.41	10.60	Pass
60	5300	1.62	0.79	4.24	10.60	Pass
64	5320	1.42	0.59	4.04	10.60	Pass
100	5500	-0.02	-1.20	2.44	10.60	Pass
116	5580	1.57	1.23	4.41	10.60	Pass
140	5700	1.57	1.48	4.54	10.60	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.4 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	0.23	0.21	3.23	10.60	Pass
40	5200	0.16	0.11	3.15	10.60	Pass
48	5240	-0.03	-0.06	2.97	10.60	Pass
52	5260	0.80	0.85	3.84	10.60	Pass
60	5300	1.02	0.28	3.68	10.60	Pass
64	5320	0.90	-0.05	3.46	10.60	Pass
100	5500	-0.48	-1.94	1.86	10.60	Pass
116	5580	1.09	1.10	4.11	10.60	Pass
140	5700	0.94	1.61	4.30	10.60	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.4 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-1.38	-1.49	1.58	10.60	Pass
46	5230	-1.68	-1.46	1.44	10.60	Pass
54	5270	-1.52	-1.70	1.40	10.60	Pass
62	5310	-1.48	-2.42	1.09	10.60	Pass
102	5510	-1.33	-2.29	1.23	10.60	Pass
110	5550	-1.42	-1.78	1.41	10.60	Pass
134	5670	-1.39	-0.90	1.87	10.60	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{Chain0/20} + 10^{Chain1/20})^2 / 2]$
3. For U-NII-1, the directional gain is 6.4 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-4.83	-4.34	-1.57	10.60	Pass
58	5290	-4.62	-4.99	-1.79	10.60	Pass
106	5530	-4.16	-5.17	-1.63	10.60	Pass
122	5610	-4.10	-4.13	-1.10	10.60	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.4 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.4-6) = 10.6 dBm/MHz.

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-6.02	-3.8	3.01	-0.79	29.6	Pass
	157	5785	-6.45	-4.23	3.01	-1.22	29.6	Pass
	165	5825	-6.49	-4.27	3.01	-1.26	29.6	Pass
Chain 1	149	5745	-5.2	-2.98	3.01	0.03	29.6	Pass
	157	5785	-5.49	-3.27	3.01	-0.26	29.6	Pass
	165	5825	-5.97	-3.75	3.01	-0.74	29.6	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.4-6) = 29.6 dBm/500kHz.

802.11ax (HE20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-7.58	-5.36	3.01	-2.35	29.6	Pass
	157	5785	-7.95	-5.73	3.01	-2.72	29.6	Pass
	165	5825	-7.86	-5.64	3.01	-2.63	29.6	Pass
Chain 1	149	5745	-6.72	-4.5	3.01	-1.49	29.6	Pass
	157	5785	-6.86	-4.64	3.01	-1.63	29.6	Pass
	165	5825	-7.26	-5.04	3.01	-2.03	29.6	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.4-6) = 29.6 dBm/500kHz.

802.11ax (HE40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	151	5755	-10.2	-7.98	3.01	-4.97	29.6	Pass
	159	5795	-10.41	-8.19	3.01	-5.18	29.6	Pass
Chain 1	151	5755	-9.22	-7	3.01	-3.99	29.6	Pass
	159	5795	-9.64	-7.42	3.01	-4.41	29.6	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.4-6) = 29.6 dBm/500kHz.

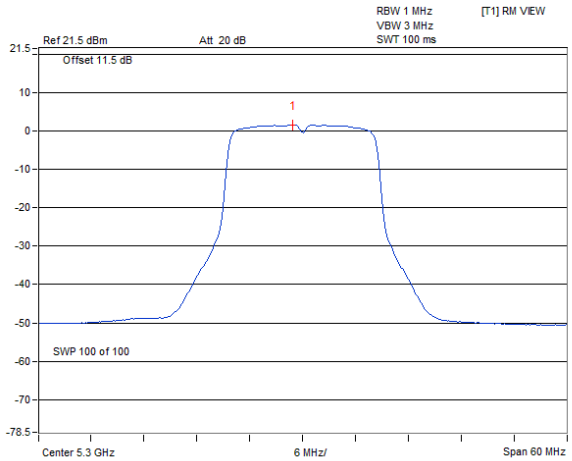
802.11ax (HE80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	155	5775	-13.48	-11.26	3.01	-8.25	29.6	Pass
Chain 1	155	5775	-12.44	-10.22	3.01	-7.21	29.6	Pass

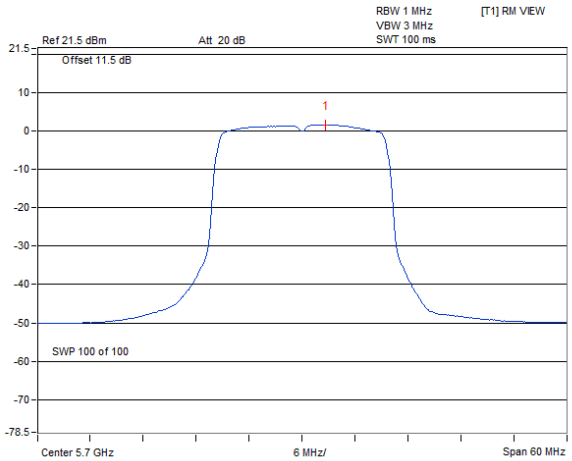
Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.4-6) = 29.6 dBm/500kHz.

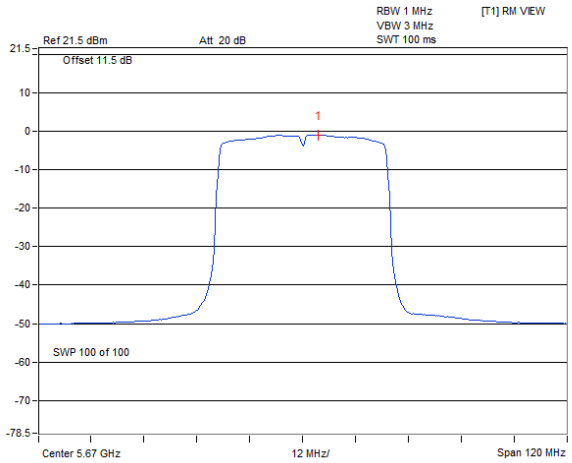
Spectrum Plot of Maximum Value



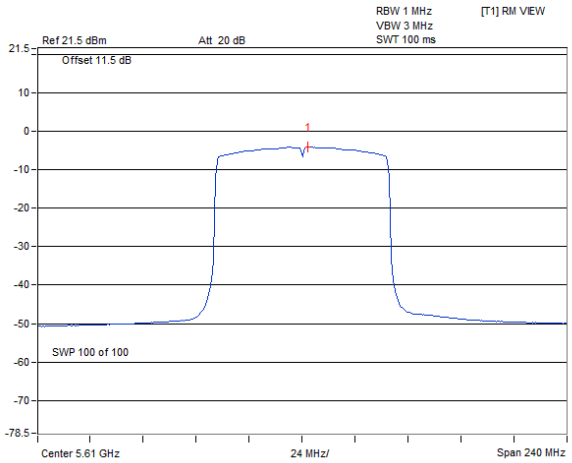
802.11a / Chain 0 : CH 60



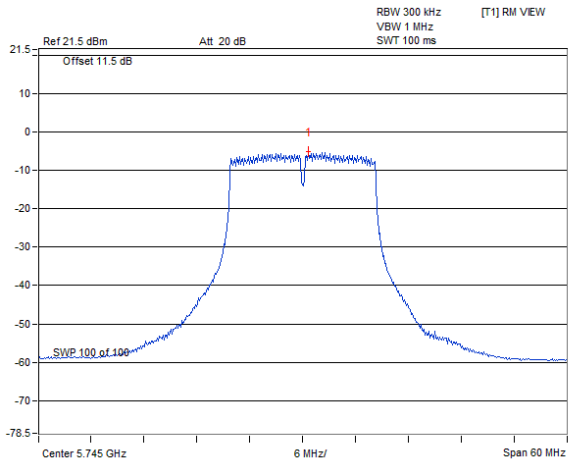
802.11ax (HE20) / Chain 1 : CH 140



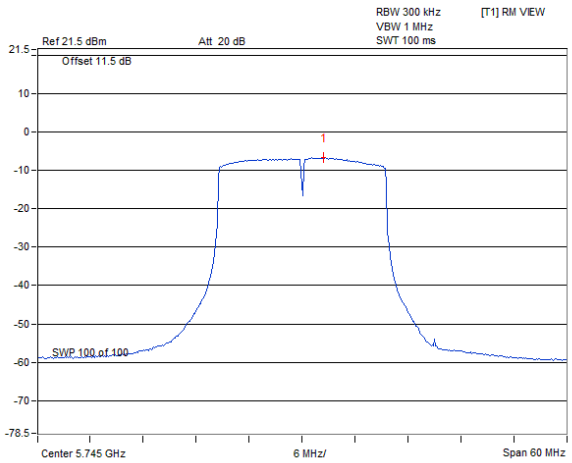
802.11ax (HE40) / Chain 1 : CH 134



802.11ax (HE80) / Chain 0 : CH 122

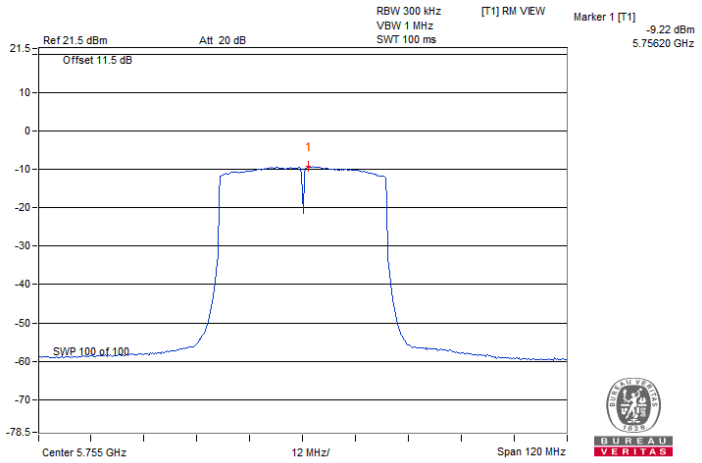


802.11a / Chain 1 : CH 149

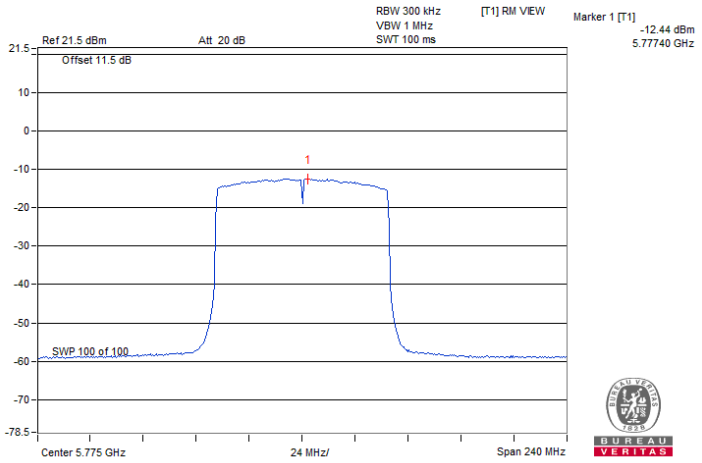


802.11ax (HE20) / Chain 1 : CH 149

Spectrum Plot of Maximum Value



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.33	16.36	0.5	Pass
157	5785	16.34	16.36	0.5	Pass
165	5825	16.35	16.36	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	18.53	18.61	0.5	Pass
157	5785	18.57	18.49	0.5	Pass
165	5825	18.77	18.61	0.5	Pass

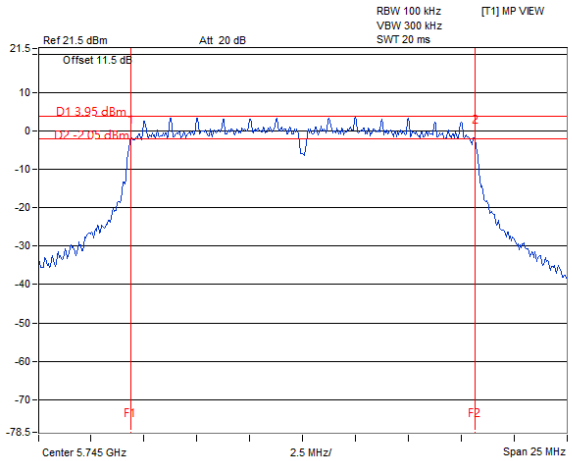
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	37.36	37.79	0.5	Pass
159	5795	37.42	37.34	0.5	Pass

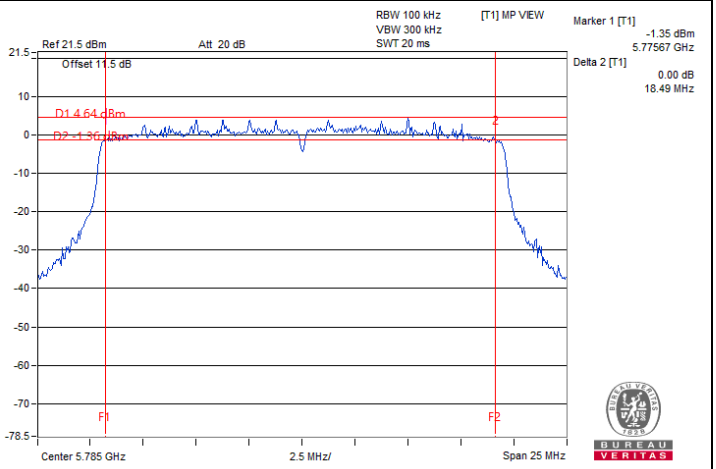
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	77.46	75.84	0.5	Pass

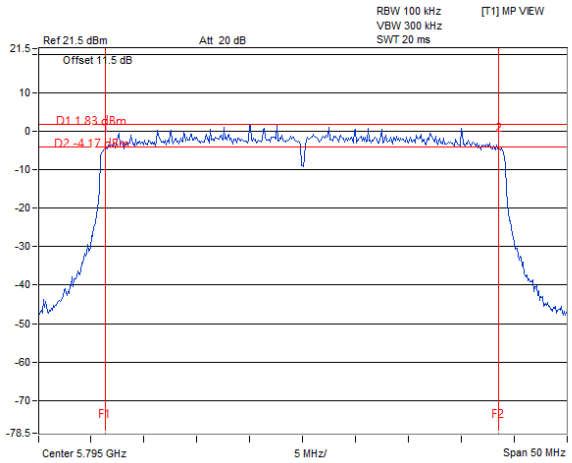
Spectrum Plot of Minimum Value



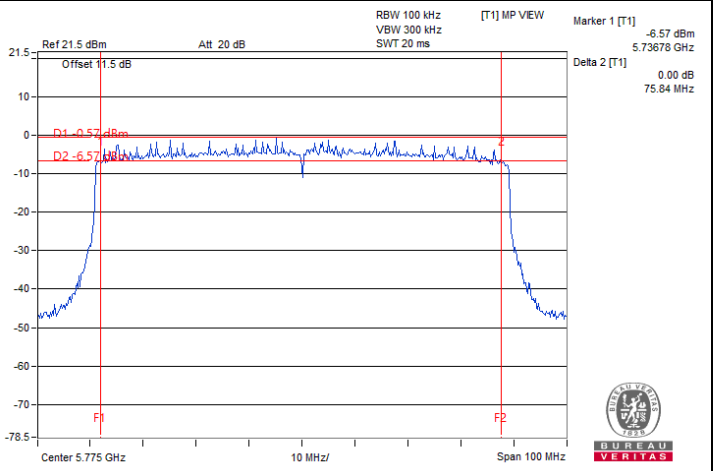
802.11a / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 157



802.11ax (HE40) / Chain 1 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.32
40	5200	16.32	16.32
48	5240	16.44	16.32
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.44	16.32
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.32
149	5745	16.44	16.44
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.84
40	5200	18.96	18.84
48	5240	18.84	18.84
52	5260	18.84	18.84
60	5300	18.84	18.84
64	5320	18.96	18.84
100	5500	18.84	18.84
116	5580	18.84	18.84
140	5700	18.96	18.84
149	5745	18.84	18.96
157	5785	18.84	18.84
165	5825	18.84	18.96

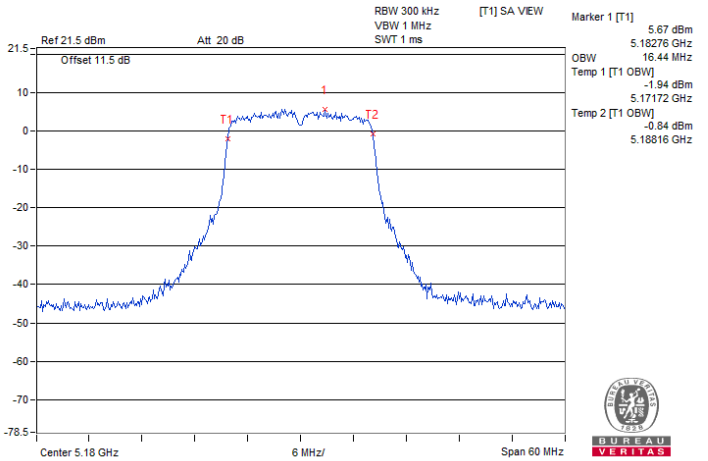
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.92
46	5230	37.92	37.92
54	5270	37.92	37.92
62	5310	37.92	37.92
102	5510	37.92	37.92
110	5550	37.92	37.92
134	5670	37.92	37.92
151	5755	37.92	37.68
159	5795	38.16	37.92

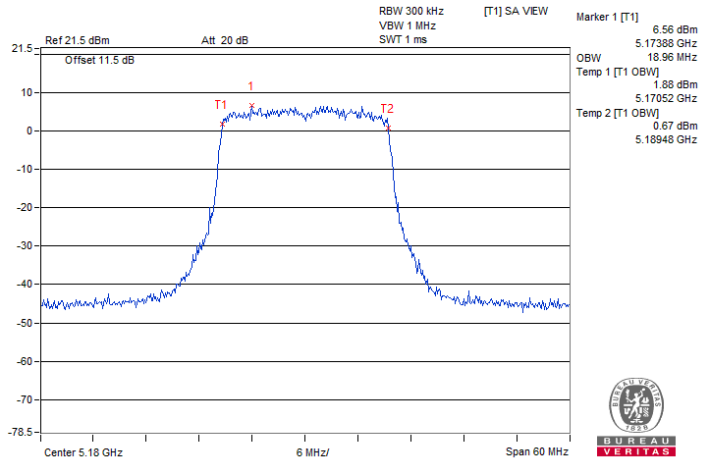
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.28
106	5530	77.28	76.80
122	5610	77.28	77.28
155	5775	77.28	77.28

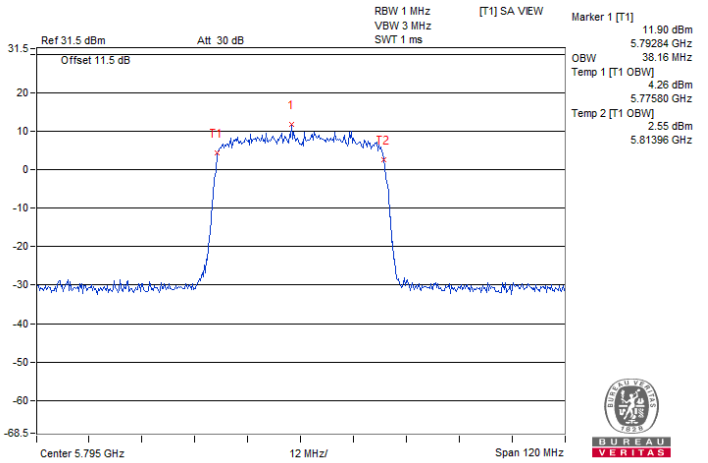
Spectrum Plot of Maximum Value



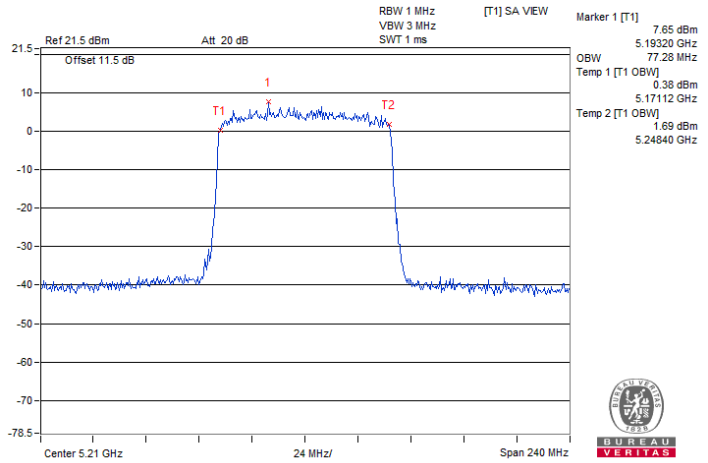
802.11a / Chain 0 : CH 36



802.11ax (HE20) / Chain 0 : CH 36

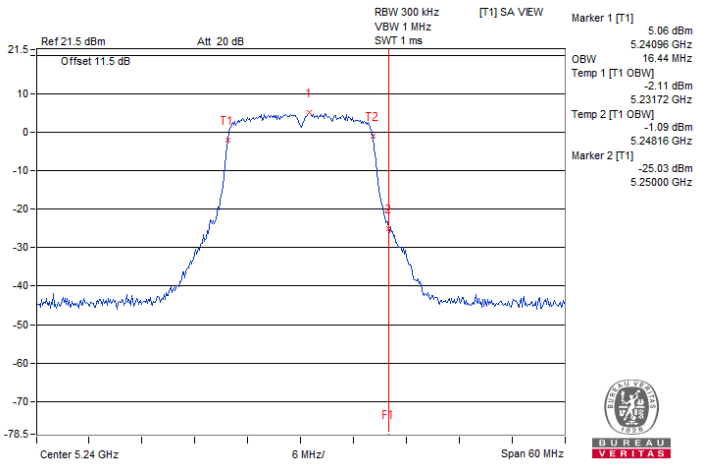


802.11ax (HE40) / Chain 0 : CH 159

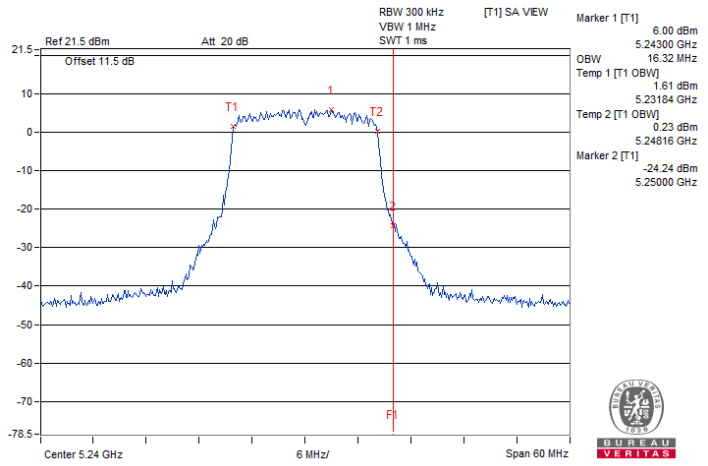


802.11ax (HE80) / Chain 0 : CH 42

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



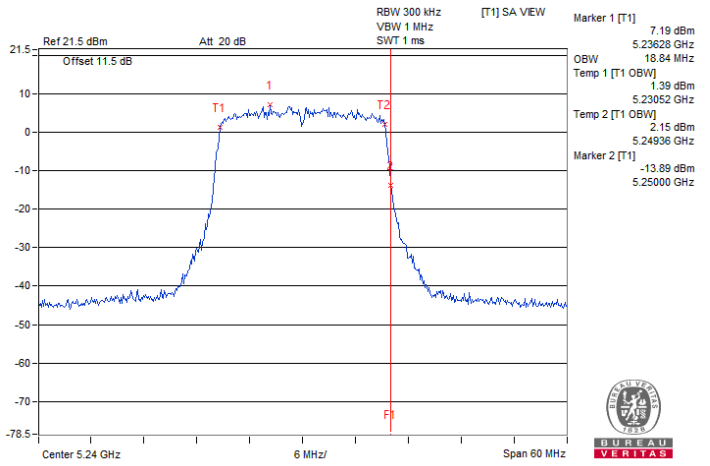
802.11a / Chain 0 : CH 48



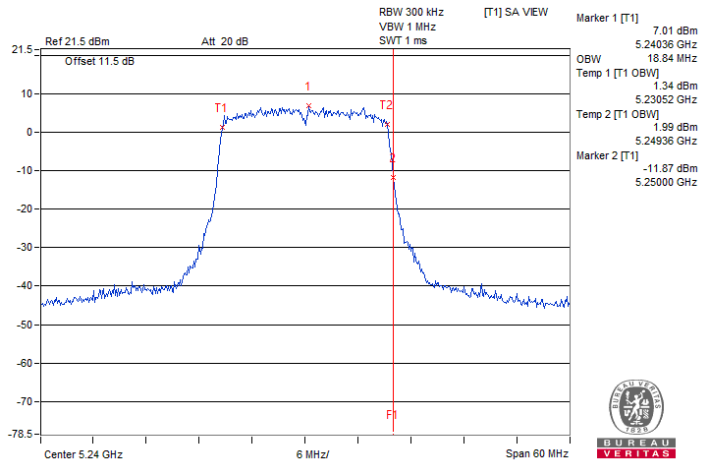
802.11a / Chain 1 : CH 48

Spectrum Plot for nearby DFS band

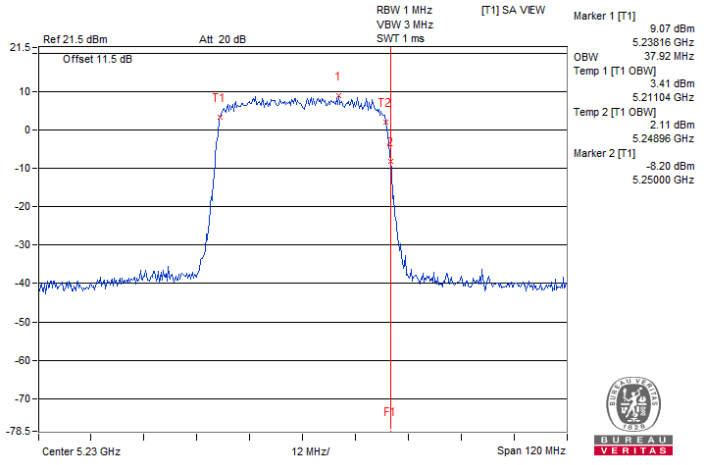
(DFS is required, if 99% OCP straddle into U-NII-2A)



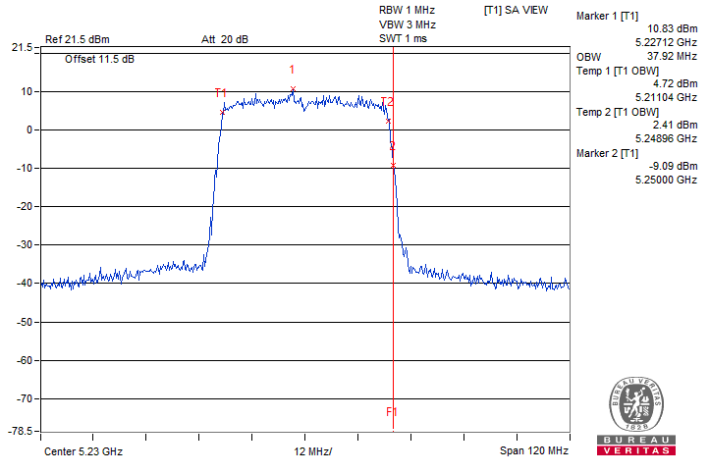
802.11ax (HE20) / Chain 0 : CH 48



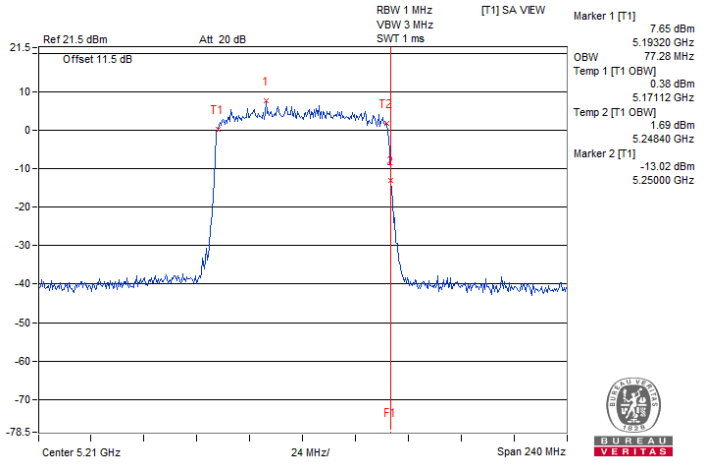
802.11ax (HE20) / Chain 1 : CH 48



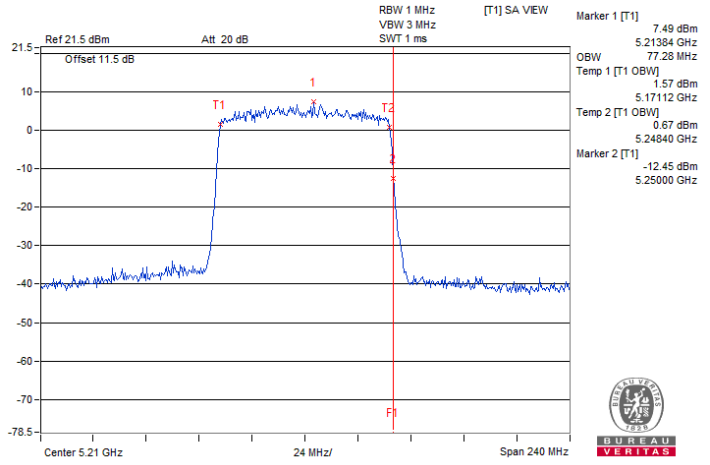
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



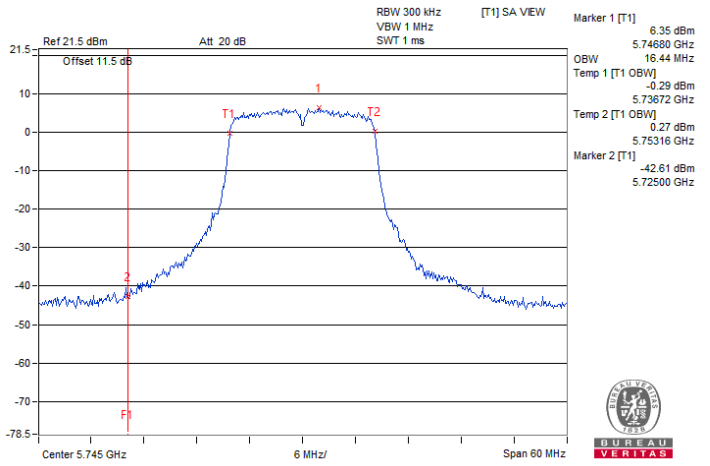
802.11ax (HE80) / Chain 0 : CH 42



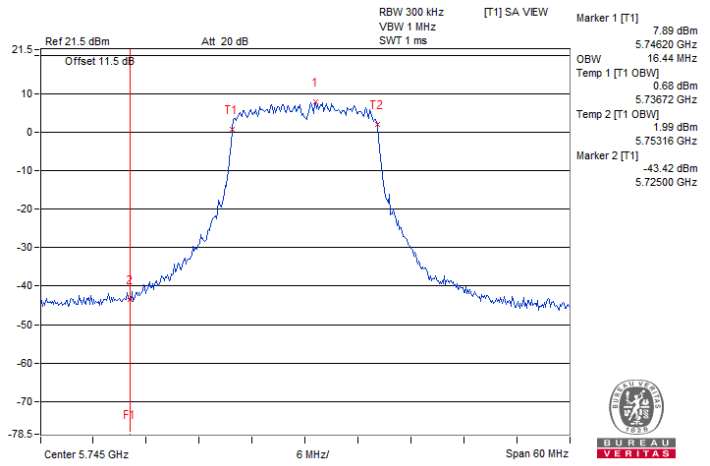
802.11ax (HE80) / Chain 1 : CH 42

Spectrum Plot for nearby DFS band

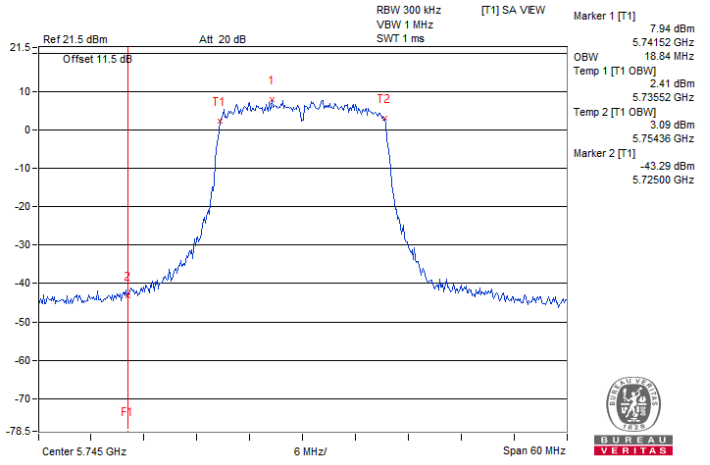
(DFS is required, if 99% OCP straddle into U-NII-2C)



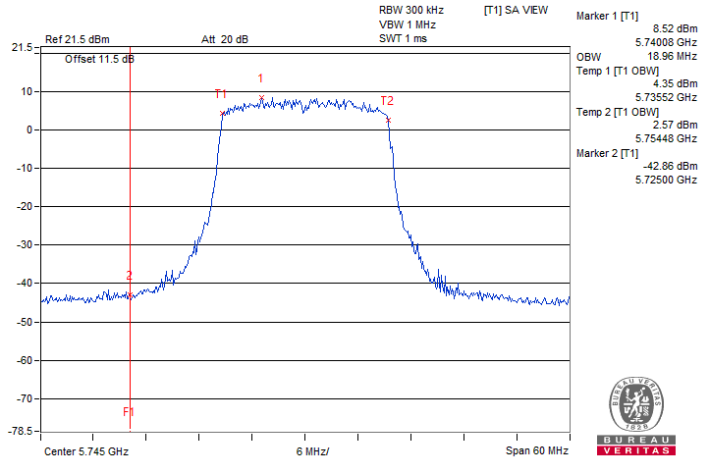
802.11a / Chain 0 : CH 149



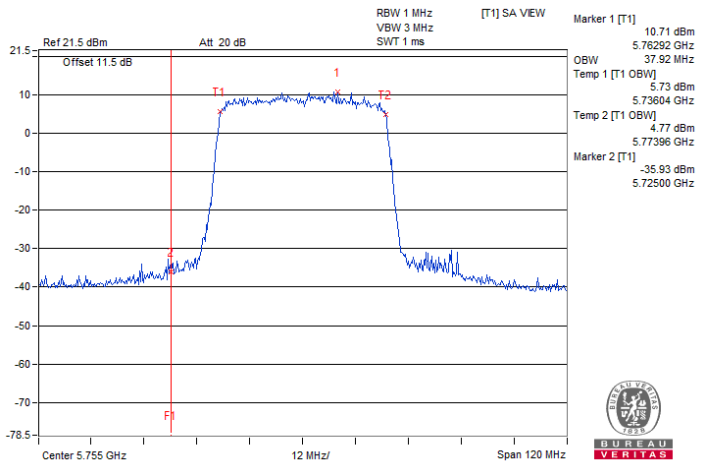
802.11a / Chain 1 : CH 149



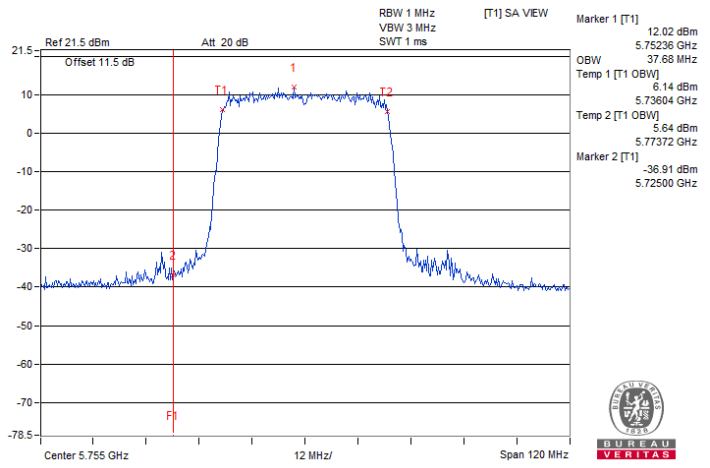
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



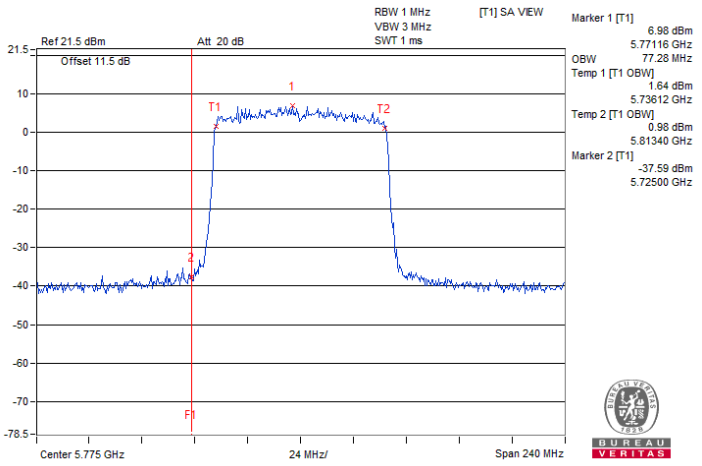
802.11ax (HE40) / Chain 0 : CH 151



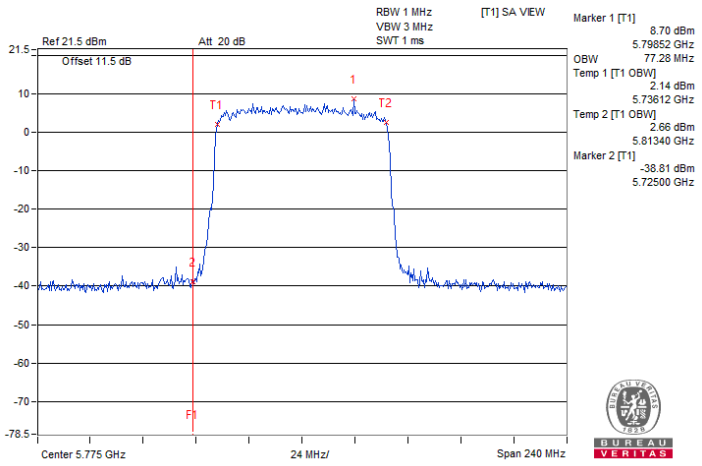
802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band

(DFS is required, if 99% OCP straddle into U-NII-2C)



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vac)	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
35	120	5180.013	Pass	5180.0119	Pass	5180.0139	Pass	5180.0129	Pass
30	120	5179.9994	Pass	5180.0004	Pass	5179.9987	Pass	5179.9987	Pass
20	120	5179.9899	Pass	5179.9927	Pass	5179.9897	Pass	5179.991	Pass
10	120	5180.0012	Pass	5180.003	Pass	5180.0016	Pass	5180.002	Pass
0	120	5180.0181	Pass	5180.0178	Pass	5180.0172	Pass	5180.019	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vac)	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	138	5179.9931	Pass	5179.9953	Pass	5179.9926	Pass	5179.9966	Pass
	120	5179.9899	Pass	5179.9927	Pass	5179.9897	Pass	5179.991	Pass
	102	5179.9931	Pass	5179.9935	Pass	5179.9949	Pass	5179.9971	Pass

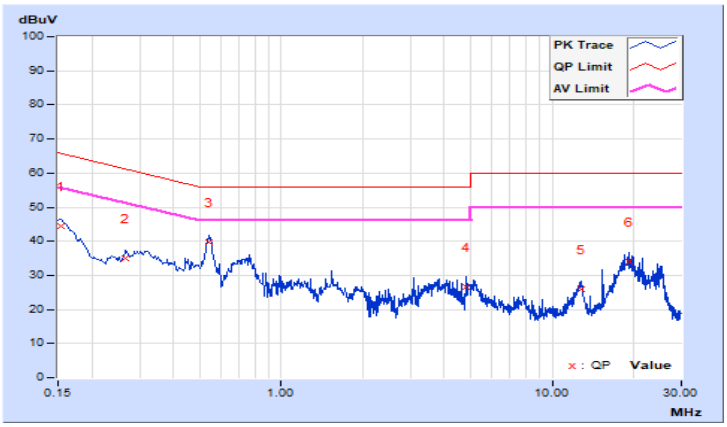
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	150kHz ~ 30MHz	**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	Jed Wu		

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	0.15391	10.00	34.37	22.62	44.37	32.62	65.79	55.79	-21.42	-23.17
2	0.26727	10.06	25.11	17.62	35.17	27.68	61.20	51.20	-26.03	-23.52
3	0.54300	10.07	29.71	22.46	39.78	32.53	56.00	46.00	-16.22	-13.47
4	4.81839	10.20	16.32	8.96	26.52	19.16	56.00	46.00	-29.48	-26.84
5	12.81409	10.40	15.59	10.66	25.99	21.06	60.00	50.00	-34.01	-28.94
6	19.22094	10.48	23.54	17.14	34.02	27.62	60.00	50.00	-25.98	-22.38

Remarks:

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

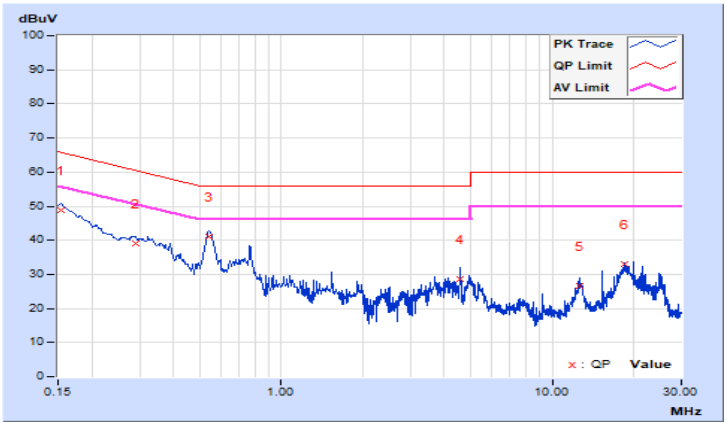


RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15391	10.01	38.73	30.11	48.74	40.12	65.79	55.79	-17.05	-15.67
2	0.28891	10.07	29.07	23.84	39.14	33.91	60.56	50.56	-21.42	-16.65
3	**0.53805**	**10.07**	**31.09**	**24.08**	**41.16**	**34.15**	**56.00**	**46.00**	**-14.84**	**-11.85**
4	4.54867	10.20	18.58	10.40	28.78	20.60	56.00	46.00	-27.22	-25.40
5	12.58737	10.41	16.14	11.84	26.55	22.25	60.00	50.00	-33.45	-27.75
6	18.43132	10.50	22.39	19.63	32.89	30.13	60.00	50.00	-27.11	-19.87

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



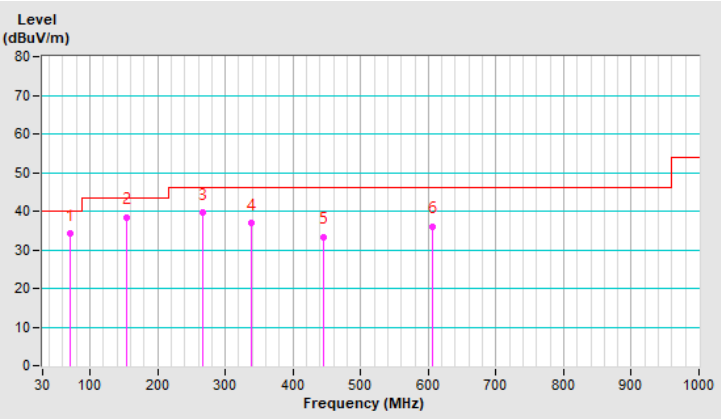
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120Vac,60Hz	**Environmental Conditions**	23°C, 69% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	70.64	34.1 QP	40.0	-5.9	1.77 H	156	45.1	-11.0
2	153.58	38.4 QP	43.5	-5.1	1.43 H	147	46.6	-8.2
3	265.71	39.5 QP	46.0	-6.5	1.18 H	350	46.9	-7.4
4	339.28	36.8 QP	46.0	-9.2	1.23 H	206	42.0	-5.2
5	445.50	33.3 QP	46.0	-12.7	1.56 H	232	35.8	-2.5
6	606.08	35.9 QP	46.0	-10.1	1.85 H	230	35.2	0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit 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.

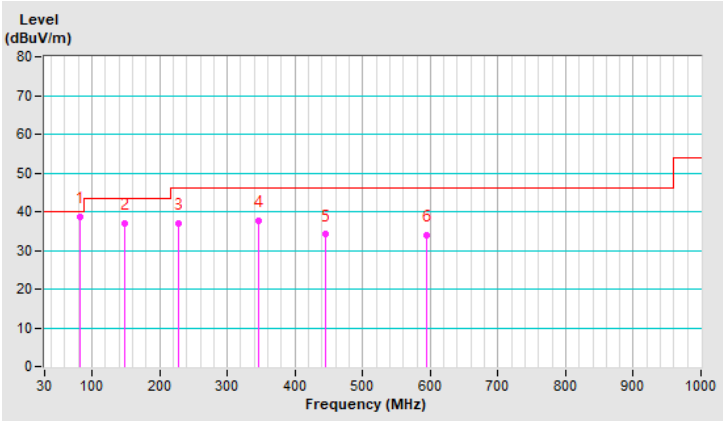


RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120Vac,60Hz	**Environmental Conditions**	23°C, 69% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**82.96**	**38.6 QP**	**40.0**	**-1.4**	**1.35 V**	**104**	**52.5**	**-13.9**
2	148.49	36.9 QP	43.5	-6.6	1.62 V	13	45.3	-8.4
3	227.35	36.9 QP	46.0	-9.1	1.93 V	335	47.6	-10.7
4	347.14	37.6 QP	46.0	-8.4	1.85 V	154	42.9	-5.3
5	445.45	34.1 QP	46.0	-11.9	1.53 V	158	36.6	-2.5
6	594.44	33.9 QP	46.0	-12.1	1.24 V	321	33.3	0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The 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	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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.0 PK	74.0	-20.0	2.93 H	0	41.4	12.6
2	5150.00	43.6 AV	54.0	-10.4	2.93 H	0	31.0	12.6
3	*5180.00	108.7 PK			2.93 H	0	96.1	12.6
4	*5180.00	100.6 AV			2.93 H	0	88.0	12.6
5	#10360.00	62.0 PK	68.2	-6.2	1.21 H	269	38.1	23.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	55.1 PK	74.0	-18.9	2.36 V	1	42.5	12.6
2	5150.00	44.0 AV	54.0	-10.0	2.36 V	1	31.4	12.6
3	*5180.00	109.8 PK			2.36 V	1	97.2	12.6
4	*5180.00	101.0 AV			2.36 V	1	88.4	12.6
5	#10360.00	63.9 PK	68.2	-4.3	1.73 V	357	40.0	23.9

Remarks:

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

RF Mode	802.11a	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	107.9 PK			2.92 H	33	95.2	12.7
2	*5200.00	99.8 AV			2.92 H	33	87.1	12.7
3	#10400.00	62.7 PK	68.2	-5.5	1.22 H	302	39.0	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	109.0 PK			2.36 V	328	96.3	12.7
2	*5200.00	100.3 AV			2.36 V	328	87.6	12.7
3	#10400.00	64.6 PK	68.2	-3.6	1.74 V	324	40.9	23.7

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	107.4 PK			3.25 H	9	94.4	13.0
2	*5240.00	99.5 AV			3.25 H	9	86.5	13.0
3	5350.00	54.2 PK	74.0	-19.8	3.25 H	9	40.5	13.7
4	5350.00	43.7 AV	54.0	-10.3	3.25 H	9	30.0	13.7
5	#10480.00	64.0 PK	68.2	-4.2	1.54 H	278	40.3	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	109.0 PK			2.68 V	352	96.0	13.0
2	*5240.00	100.4 AV			2.68 V	352	87.4	13.0
3	5350.00	54.9 PK	74.0	-19.1	2.68 V	352	41.2	13.7
4	5350.00	44.3 AV	54.0	-9.7	2.68 V	352	30.6	13.7
5	#10480.00	65.7 PK	68.2	-2.5	2.06 V	348	41.2	24.5

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	53.9 PK	74.0	-20.1	2.64 H	308	41.3	12.6
2	5150.00	42.7 AV	54.0	-11.3	2.64 H	308	30.1	12.6
3	*5260.00	107.5 PK			2.64 H	308	94.2	13.3
4	*5260.00	99.5 AV			2.64 H	308	86.2	13.3
5	#10520.00	61.8 PK	68.2	-6.4	1.50 H	216	37.1	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.4 PK	74.0	-19.6	2.07 V	53	41.8	12.6
2	5150.00	43.2 AV	54.0	-10.8	2.07 V	53	30.6	12.6
3	*5260.00	108.5 PK			2.07 V	53	95.2	13.3
4	*5260.00	100.4 AV			2.07 V	53	87.1	13.3
5	#10520.00	62.7 PK	68.2	-5.5	1.44 V	305	38.0	24.7

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	109.3 PK			3.16 H	24	95.7	13.6
2	*5300.00	100.8 AV			3.16 H	24	87.2	13.6
3	10600.00	64.5 PK	74.0	-9.5	1.09 H	270	40.0	24.5
4	10600.00	52.6 AV	54.0	-1.4	1.09 H	270	28.1	24.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	110.4 PK			2.59 V	337	96.8	13.6
2	*5300.00	101.9 AV			2.59 V	337	88.3	13.6
3	10600.00	65.4 PK	74.0	-8.6	1.61 V	358	40.9	24.5
4	10600.00	53.5 AV	54.0	-0.5	1.61 V	358	29.0	24.5

Remarks:

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

RF Mode	802.11a	**Channel**	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5320.00	107.7 PK			3.15 H	22	94.0	13.7
2	*5320.00	99.8 AV			3.15 H	22	86.1	13.7
3	5350.00	54.8 PK	74.0	-19.2	3.15 H	22	41.1	13.7
4	5350.00	43.5 AV	54.0	-10.5	3.15 H	22	29.8	13.7
5	10640.00	61.7 PK	74.0	-12.3	1.10 H	268	36.7	25.0
6	10640.00	51.0 AV	54.0	-3.0	1.10 H	268	26.0	25.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5320.00	109.1 PK			2.60 V	355	95.4	13.7
2	*5320.00	101.0 AV			2.60 V	355	87.3	13.7
3	5350.00	55.3 PK	74.0	-18.7	2.60 V	355	41.6	13.7
4	5350.00	44.0 AV	54.0	-10.0	2.60 V	355	30.3	13.7
5	10640.00	62.4 PK	74.0	-11.6	1.56 V	357	37.4	25.0
6	10640.00	51.7 AV	54.0	-2.3	1.56 V	357	26.7	25.0

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	54.5 PK	74.0	-19.5	3.38 H	39	40.4	14.1
2	5460.00	43.9 AV	54.0	-10.1	3.38 H	39	29.8	14.1
3	#5470.00	54.3 PK	68.2	-13.9	3.38 H	39	40.2	14.1
4	*5500.00	107.3 PK			3.38 H	39	93.1	14.2
5	*5500.00	98.3 AV			3.38 H	39	84.1	14.2
6	11000.00	63.2 PK	74.0	-10.8	1.31 H	285	37.5	25.7
7	11000.00	52.1 AV	54.0	-1.9	1.31 H	285	26.4	25.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	55.1 PK	74.0	-18.9	2.81 V	352	41.0	14.1
2	5460.00	44.1 AV	54.0	-9.9	2.81 V	352	30.0	14.1
3	#5470.00	54.8 PK	68.2	-13.4	2.81 V	352	40.7	14.1
4	*5500.00	108.4 PK			2.81 V	352	94.2	14.2
5	*5500.00	99.3 AV			2.81 V	352	85.1	14.2
6	11000.00	65.3 PK	74.0	-8.7	1.69 V	2	39.6	25.7
7	11000.00	53.2 AV	54.0	-0.8	1.69 V	2	27.5	25.7

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	107.4 PK			1.58 H	247	93.5	13.9
2	*5580.00	99.5 AV			1.58 H	247	85.6	13.9
3	11160.00	62.9 PK	74.0	-11.1	1.30 H	286	36.6	26.3
4	11160.00	51.8 AV	54.0	-2.2	1.30 H	286	25.5	26.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	108.7 PK			1.01 V	144	94.8	13.9
2	*5580.00	100.7 AV			1.01 V	144	86.8	13.9
3	11160.00	63.8 PK	74.0	-10.2	1.70 V	1	37.5	26.3
4	11160.00	53.1 AV	54.0	-0.9	1.70 V	1	26.8	26.3

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	108.6 PK			3.39 H	255	95.0	13.6
2	*5700.00	100.6 AV			3.39 H	255	87.0	13.6
3	#5725.00	58.1 PK	68.2	-10.1	3.39 H	255	44.5	13.6
4	11400.00	62.5 PK	74.0	-11.5	1.32 H	69	35.3	27.2
5	11400.00	51.1 AV	54.0	-2.9	1.32 H	69	23.9	27.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	110.2 PK			2.82 V	136	96.6	13.6
2	*5700.00	101.8 AV			2.82 V	136	88.2	13.6
3	#5725.00	58.7 PK	68.2	-9.5	2.82 V	136	45.1	13.6
4	11400.00	63.2 PK	74.0	-10.8	1.70 V	358	36.0	27.2
5	11400.00	52.4 AV	54.0	-1.6	1.70 V	358	25.2	27.2

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5616.00	53.4 PK	68.2	-14.8	2.84 H	38	39.7	13.7
2	*5745.00	110.4 PK			2.84 H	38	96.8	13.6
3	*5745.00	101.9 AV			2.84 H	38	88.3	13.6
4	#5937.20	55.1 PK	68.2	-13.1	2.84 H	38	40.9	14.2
5	11490.00	60.9 PK	74.0	-13.1	1.40 H	68	34.0	26.9
6	11490.00	50.2 AV	54.0	-3.8	1.40 H	68	23.3	26.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5632.00	53.9 PK	68.2	-14.3	1.72 V	42	40.3	13.6
2	*5745.00	111.5 PK			1.72 V	42	97.9	13.6
3	*5745.00	103.2 AV			1.72 V	42	89.6	13.6
4	#5980.00	55.2 PK	68.2	-13.0	1.72 V	42	41.1	14.1
5	11490.00	61.8 PK	74.0	-12.2	1.71 V	11	34.9	26.9
6	11490.00	51.1 AV	54.0	-2.9	1.71 V	11	24.2	26.9

Remarks:

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

RF Mode	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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5618.00	53.6 PK	68.2	-14.6	2.83 H	37	39.9	13.7
2	*5785.00	109.7 PK			2.83 H	37	96.2	13.5
3	*5785.00	101.3 AV			2.83 H	37	87.8	13.5
4	#5940.40	54.7 PK	68.2	-13.5	2.83 H	37	40.5	14.2
5	11570.00	60.6 PK	74.0	-13.4	1.34 H	73	33.5	27.1
6	11570.00	50.1 AV	54.0	-3.9	1.34 H	73	23.0	27.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5611.60	54.2 PK	68.2	-14.0	1.86 V	42	40.5	13.7
2	*5785.00	110.8 PK			1.86 V	42	97.3	13.5
3	*5785.00	102.5 AV			1.86 V	42	89.0	13.5
4	#5990.00	55.2 PK	68.2	-13.0	1.86 V	42	41.1	14.1
5	11570.00	61.5 PK	74.0	-12.5	1.63 V	6	34.4	27.1
6	11570.00	51.0 AV	54.0	-3.0	1.63 V	6	23.9	27.1

Remarks:

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

RF Mode	802.11a	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5635.20	52.8 PK	68.2	-15.4	2.51 H	86	39.2	13.6
2	*5825.00	110.2 PK			2.51 H	86	96.4	13.8
3	*5825.00	101.6 AV			2.51 H	86	87.8	13.8
4	#5980.40	54.4 PK	68.2	-13.8	2.51 H	86	40.3	14.1
5	11650.00	61.1 PK	74.0	-12.9	1.48 H	87	33.1	28.0
6	11650.00	50.7 AV	54.0	-3.3	1.48 H	87	22.7	28.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5604.80	53.9 PK	68.2	-14.3	2.03 V	2	40.2	13.7
2	*5825.00	111.6 PK			2.03 V	2	97.8	13.8
3	*5825.00	103.0 AV			2.03 V	2	89.2	13.8
4	#5966.00	55.6 PK	68.2	-12.6	2.03 V	2	41.5	14.1
5	11650.00	62.0 PK	74.0	-12.0	1.69 V	1	34.0	28.0
6	11650.00	51.6 AV	54.0	-2.4	1.69 V	1	23.6	28.0

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	56.3 PK	74.0	-17.7	2.92 H	356	43.7	12.6
2	5150.00	44.6 AV	54.0	-9.4	2.92 H	356	32.0	12.6
3	*5180.00	109.7 PK			2.92 H	356	97.1	12.6
4	*5180.00	99.2 AV			2.92 H	356	86.6	12.6
5	#10360.00	64.6 PK	68.2	-3.6	1.22 H	273	40.7	23.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	57.4 PK	74.0	-16.6	2.35 V	5	44.8	12.6
2	5150.00	44.9 AV	54.0	-9.1	2.35 V	5	32.3	12.6
3	*5180.00	111.4 PK			2.35 V	5	98.8	12.6
4	*5180.00	100.4 AV			2.35 V	5	87.8	12.6
5	#10360.00	65.5 PK	68.2	-2.7	1.72 V	353	41.6	23.9

Remarks:

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

RF Mode	802.11ax (HE20)	**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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	109.3 PK			2.94 H	31	96.6	12.7
2	*5200.00	99.5 AV			2.94 H	31	86.8	12.7
3	#10400.00	63.3 PK	68.2	-4.9	1.23 H	300	39.6	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	110.4 PK			2.35 V	330	97.7	12.7
2	*5200.00	99.9 AV			2.35 V	330	87.2	12.7
3	#10400.00	64.2 PK	68.2	-4.0	1.71 V	318	40.5	23.7

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	109.5 PK			2.83 H	10	96.6	12.9
2	*5240.00	98.4 AV			2.83 H	10	85.5	12.9
3	5350.00	54.5 PK	74.0	-19.5	2.83 H	10	40.9	13.6
4	5350.00	43.7 AV	54.0	-10.3	2.83 H	10	30.1	13.6
5	#10480.00	64.0 PK	68.2	-4.2	1.11 H	279	39.7	24.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	110.7 PK			2.26 V	351	97.8	12.9
2	*5240.00	99.9 AV			2.26 V	351	87.0	12.9
3	5350.00	55.0 PK	74.0	-19.0	2.26 V	351	41.4	13.6
4	5350.00	44.2 AV	54.0	-9.8	2.26 V	351	30.6	13.6
5	#10480.00	64.9 PK	68.2	-3.3	1.80 V	339	40.6	24.4

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	53.6 PK	74.0	-20.4	3.06 H	26	41.0	12.6
2	5150.00	42.6 AV	54.0	-11.4	3.06 H	26	30.0	12.6
3	*5260.00	110.5 PK			3.06 H	26	97.2	13.3
4	*5260.00	99.4 AV			3.06 H	26	86.1	13.3
5	#10520.00	65.5 PK	68.2	-2.7	1.19 H	272	40.8	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.6 PK	74.0	-19.4	2.49 V	339	42.0	12.6
2	5150.00	43.3 AV	54.0	-10.7	2.49 V	339	30.7	12.6
3	*5260.00	111.9 PK			2.49 V	339	98.6	13.3
4	*5260.00	100.8 AV			2.49 V	339	87.5	13.3
5	#10520.00	66.4 PK	68.2	-1.8	1.51 V	354	41.7	24.7

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	110.5 PK			3.08 H	41	96.9	13.6
2	*5300.00	99.6 AV			3.08 H	41	86.0	13.6
3	10600.00	63.9 PK	74.0	-10.1	1.01 H	287	39.4	24.5
4	10600.00	52.8 AV	54.0	-1.2	1.01 H	287	28.3	24.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	111.6 PK			2.51 V	354	98.0	13.6
2	*5300.00	100.7 AV			2.51 V	354	87.1	13.6
3	10600.00	64.8 PK	74.0	-9.2	1.64 V	357	40.3	24.5
4	**10600.00**	**53.7 AV**	**54.0**	**-0.3**	**1.64 V**	**357**	**29.2**	**24.5**

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5320.00	109.9 PK			2.86 H	40	96.2	13.7
2	*5320.00	98.7 AV			2.86 H	40	85.0	13.7
3	5350.00	54.5 PK	74.0	-19.5	2.86 H	40	40.8	13.7
4	5350.00	43.4 AV	54.0	-10.6	2.86 H	40	29.7	13.7
5	10640.00	62.3 PK	74.0	-11.7	1.39 H	286	37.3	25.0
6	10640.00	50.9 AV	54.0	-3.1	1.39 H	286	25.9	25.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5320.00	111.1 PK			2.29 V	353	97.4	13.7
2	*5320.00	100.2 AV			2.29 V	353	86.5	13.7
3	5350.00	54.9 PK	74.0	-19.1	2.29 V	353	41.2	13.7
4	5350.00	43.8 AV	54.0	-10.2	2.29 V	353	30.1	13.7
5	10640.00	62.9 PK	74.0	-11.1	1.64 V	356	37.9	25.0
6	10640.00	51.5 AV	54.0	-2.5	1.64 V	356	26.5	25.0

Remarks:

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

RF Mode	802.11ax (HE20)	**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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	53.9 PK	74.0	-20.1	3.37 H	139	39.8	14.1
2	5460.00	43.5 AV	54.0	-10.5	3.37 H	139	29.4	14.1
3	#5470.00	54.1 PK	68.2	-14.1	3.37 H	139	40.0	14.1
4	*5500.00	108.7 PK			3.37 H	139	94.5	14.2
5	*5500.00	97.2 AV			3.37 H	139	83.0	14.2
6	11000.00	62.0 PK	74.0	-12.0	1.30 H	185	36.3	25.7
7	11000.00	52.1 AV	54.0	-1.9	1.30 H	185	26.4	25.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	54.4 PK	74.0	-19.6	2.80 V	20	40.3	14.1
2	5460.00	44.0 AV	54.0	-10.0	2.80 V	20	29.9	14.1
3	#5470.00	54.5 PK	68.2	-13.7	2.80 V	20	40.4	14.1
4	*5500.00	110.0 PK			2.80 V	20	95.8	14.2
5	*5500.00	98.4 AV			2.80 V	20	84.2	14.2
6	11000.00	64.8 PK	74.0	-9.2	1.75 V	359	39.1	25.7
7	11000.00	52.4 AV	54.0	-1.6	1.75 V	359	26.7	25.7

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	109.9 PK			3.41 H	60	96.0	13.9
2	*5580.00	99.0 AV			3.41 H	60	85.1	13.9
3	11160.00	63.5 PK	74.0	-10.5	1.34 H	264	37.2	26.3
4	11160.00	52.1 AV	54.0	-1.9	1.34 H	264	25.8	26.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	111.1 PK			2.80 V	331	97.2	13.9
2	*5580.00	100.4 AV			2.80 V	331	86.5	13.9
3	11160.00	64.6 PK	74.0	-9.4	1.72 V	358	38.3	26.3
4	11160.00	53.2 AV	54.0	-0.8	1.72 V	358	26.9	26.3

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	112.0 PK			3.36 H	166	98.4	13.6
2	*5700.00	101.1 AV			3.36 H	166	87.5	13.6
3	#5725.00	61.2 PK	68.2	-7.0	3.36 H	166	47.6	13.6
4	11400.00	62.8 PK	74.0	-11.2	1.29 H	158	35.6	27.2
5	11400.00	51.4 AV	54.0	-2.6	1.29 H	158	24.2	27.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	113.1 PK			2.79 V	47	99.5	13.6
2	*5700.00	102.3 AV			2.79 V	47	88.7	13.6
3	#5725.00	62.6 PK	68.2	-5.6	2.79 V	47	49.0	13.6
4	11400.00	63.4 PK	74.0	-10.6	1.70 V	359	36.2	27.2
5	11400.00	52.1 AV	54.0	-1.9	1.70 V	359	24.9	27.2

Remarks:

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

RF Mode	802.11ax (HE20)	**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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5618.80	54.2 PK	68.2	-14.0	2.39 H	86	40.5	13.7
2	*5745.00	111.9 PK			2.39 H	86	98.3	13.6
3	*5745.00	100.8 AV			2.39 H	86	87.2	13.6
4	#5979.60	55.4 PK	68.2	-12.8	2.39 H	86	41.3	14.1
5	11490.00	60.9 PK	74.0	-13.1	1.45 H	78	34.0	26.9
6	11490.00	50.5 AV	54.0	-3.5	1.45 H	78	23.6	26.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5612.00	54.3 PK	68.2	-13.9	2.17 V	354	40.6	13.7
2	*5745.00	112.7 PK			2.17 V	354	99.1	13.6
3	*5745.00	101.8 AV			2.17 V	354	88.2	13.6
4	#5964.80	55.2 PK	68.2	-13.0	2.17 V	354	41.1	14.1
5	11490.00	61.8 PK	74.0	-12.2	1.76 V	1	34.9	26.9
6	11490.00	51.4 AV	54.0	-2.6	1.76 V	1	24.5	26.9

Remarks:

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

RF Mode	802.11ax (HE20)	**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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5627.60	54.4 PK	68.2	-13.8	2.97 H	39	40.8	13.6
2	*5785.00	112.6 PK			2.97 H	39	99.1	13.5
3	*5785.00	101.8 AV			2.97 H	39	88.3	13.5
4	#5956.00	55.6 PK	68.2	-12.6	2.97 H	39	41.5	14.1
5	11570.00	60.5 PK	74.0	-13.5	1.53 H	67	33.4	27.1
6	11570.00	49.2 AV	54.0	-4.8	1.53 H	67	22.1	27.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5615.60	54.0 PK	68.2	-14.2	1.85 V	43	40.3	13.7
2	*5785.00	113.7 PK			1.85 V	43	100.2	13.5
3	*5785.00	102.9 AV			1.85 V	43	89.4	13.5
4	#5996.00	55.8 PK	68.2	-12.4	1.85 V	43	41.7	14.1
5	11570.00	61.4 PK	74.0	-12.6	1.76 V	17	34.3	27.1
6	11570.00	50.1 AV	54.0	-3.9	1.76 V	17	23.0	27.1

Remarks:

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

RF Mode	802.11ax (HE20)	**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	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5624.00	54.4 PK	68.2	-13.8	2.70 H	35	40.7	13.7
2	*5825.00	112.4 PK			2.70 H	35	98.6	13.8
3	*5825.00	101.5 AV			2.70 H	35	87.7	13.8
4	#5996.00	55.5 PK	68.2	-12.7	2.70 H	35	41.4	14.1
5	11650.00	62.7 PK	74.0	-11.3	1.27 H	71	34.7	28.0
6	11650.00	50.8 AV	54.0	-3.2	1.27 H	71	22.8	28.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5646.00	54.5 PK	68.2	-13.7	1.85 V	39	40.9	13.6
2	*5825.00	113.8 PK			1.85 V	39	100.0	13.8
3	*5825.00	102.9 AV			1.85 V	39	89.1	13.8
4	#5965.60	56.7 PK	68.2	-11.5	1.85 V	39	42.6	14.1
5	11650.00	63.6 PK	74.0	-10.4	1.73 V	4	35.6	28.0
6	11650.00	51.7 AV	54.0	-2.3	1.73 V	4	23.7	28.0

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	62.2 PK	74.0	-11.8	2.83 H	34	49.6	12.6
2	5150.00	48.7 AV	54.0	-5.3	2.83 H	34	36.1	12.6
3	*5190.00	107.8 PK			2.83 H	34	95.1	12.7
4	*5190.00	96.9 AV			2.83 H	34	84.2	12.7
5	#10380.00	62.6 PK	68.2	-5.6	1.11 H	302	38.9	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	63.1 PK	74.0	-10.9	2.26 V	328	50.5	12.6
2	5150.00	50.8 AV	54.0	-3.2	2.26 V	328	38.2	12.6
3	*5190.00	108.8 PK			2.26 V	328	96.1	12.7
4	*5190.00	98.0 AV			2.26 V	328	85.3	12.7
5	#10380.00	63.5 PK	68.2	-4.7	1.81 V	316	39.8	23.7

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5230.00	108.3 PK			2.64 H	9	95.3	13.0
2	*5230.00	96.6 AV			2.64 H	9	83.6	13.0
3	5350.00	54.1 PK	74.0	-19.9	2.64 H	9	40.4	13.7
4	5350.00	43.7 AV	54.0	-10.3	2.64 H	9	30.0	13.7
5	#10460.00	63.0 PK	68.2	-5.2	1.50 H	260	38.8	24.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5230.00	109.1 PK			2.07 V	352	96.1	13.0
2	*5230.00	97.9 AV			2.07 V	352	84.9	13.0
3	5350.00	55.0 PK	74.0	-19.0	2.07 V	352	41.3	13.7
4	5350.00	44.2 AV	54.0	-9.8	2.07 V	352	30.5	13.7
5	#10460.00	63.9 PK	68.2	-4.3	1.62 V	340	39.7	24.2

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.0 PK	74.0	-20.0	3.52 H	26	41.4	12.6
2	5150.00	42.9 AV	54.0	-11.1	3.52 H	26	30.3	12.6
3	*5270.00	108.8 PK			3.52 H	26	95.3	13.5
4	*5270.00	97.7 AV			3.52 H	26	84.2	13.5
5	#10540.00	65.5 PK	68.2	-2.7	1.45 H	272	40.8	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.5 PK	74.0	-19.5	2.95 V	339	41.9	12.6
2	5150.00	43.4 AV	54.0	-10.6	2.95 V	339	30.8	12.6
3	*5270.00	110.1 PK			2.95 V	339	96.6	13.5
4	*5270.00	98.9 AV			2.95 V	339	85.4	13.5
5	#10540.00	66.0 PK	68.2	-2.2	1.97 V	360	41.3	24.7

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5310.00	108.1 PK			3.26 H	22	94.4	13.7
2	*5310.00	96.9 AV			3.26 H	22	83.2	13.7
3	5350.00	60.5 PK	74.0	-13.5	3.26 H	22	46.8	13.7
4	5350.00	47.1 AV	54.0	-6.9	3.26 H	22	33.4	13.7
5	10620.00	63.2 PK	74.0	-10.8	1.19 H	268	38.4	24.8
6	10620.00	52.1 AV	54.0	-1.9	1.19 H	268	27.3	24.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5310.00	109.0 PK			2.69 V	339	95.3	13.7
2	*5310.00	98.4 AV			2.69 V	339	84.7	13.7
3	5350.00	61.6 PK	74.0	-12.4	2.69 V	339	47.9	13.7
4	5350.00	47.9 AV	54.0	-6.1	2.69 V	339	34.2	13.7
5	10620.00	63.8 PK	74.0	-10.2	1.64 V	355	39.0	24.8
6	10620.00	53.3 AV	54.0	-0.7	1.64 V	355	28.5	24.8

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 102：5510 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	58.1 PK	74.0	-15.9	3.36 H	110	44.0	14.1
2	5460.00	45.5 AV	54.0	-8.5	3.36 H	110	31.4	14.1
3	#5470.00	61.9 PK	68.2	-6.3	3.36 H	110	47.8	14.1
4	*5510.00	108.4 PK			3.36 H	110	94.2	14.2
5	*5510.00	97.4 AV			3.36 H	110	83.2	14.2
6	11020.00	62.4 PK	74.0	-11.6	1.36 H	72	36.6	25.8
7	11020.00	52.1 AV	54.0	-1.9	1.36 H	72	26.3	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	61.6 PK	74.0	-12.4	2.85 V	351	47.5	14.1
2	5460.00	47.0 AV	54.0	-7.0	2.85 V	351	32.9	14.1
3	#5470.00	64.4 PK	68.2	-3.8	2.85 V	351	50.3	14.1
4	*5510.00	109.7 PK			2.85 V	351	95.5	14.2
5	*5510.00	98.4 AV			2.85 V	351	84.2	14.2
6	11020.00	64.0 PK	74.0	-10.0	1.74 V	1	38.2	25.8
7	11020.00	53.1 AV	54.0	-0.9	1.74 V	1	27.3	25.8

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5550.00	109.3 PK			2.63 H	131	95.1	14.2
2	*5550.00	98.4 AV			2.63 H	131	84.2	14.2
3	11100.00	62.5 PK	74.0	-11.5	1.35 H	72	36.5	26.0
4	11100.00	52.0 AV	54.0	-2.0	1.35 H	72	26.0	26.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5550.00	110.5 PK			2.06 V	260	96.3	14.2
2	*5550.00	99.6 AV			2.06 V	260	85.4	14.2
3	11100.00	63.5 PK	74.0	-10.5	1.73 V	0	37.5	26.0
4	11100.00	53.1 AV	54.0	-0.9	1.73 V	0	27.1	26.0

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 134：5670 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5670.00	110.1 PK			2.41 H	161	96.5	13.6
2	*5670.00	99.6 AV			2.41 H	161	86.0	13.6
3	#5725.00	58.0 PK	68.2	-10.2	2.41 H	161	44.4	13.6
4	11340.00	61.8 PK	74.0	-12.2	2.30 H	163	34.6	27.2
5	11340.00	50.5 AV	54.0	-3.5	2.30 H	163	23.3	27.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5670.00	111.3 PK			1.84 V	42	97.7	13.6
2	*5670.00	100.8 AV			1.84 V	42	87.2	13.6
3	#5725.00	59.5 PK	68.2	-8.7	1.84 V	42	45.9	13.6
4	11340.00	62.5 PK	74.0	-11.5	1.69 V	358	35.3	27.2
5	11340.00	51.7 AV	54.0	-2.3	1.69 V	358	24.5	27.2

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5643.20	54.9 PK	68.2	-13.3	2.77 H	37	41.3	13.6
2	*5755.00	110.6 PK			2.77 H	37	96.9	13.7
3	*5755.00	99.8 AV			2.77 H	37	86.1	13.7
4	#5950.40	55.9 PK	68.2	-12.3	2.77 H	37	41.8	14.1
5	11510.00	59.9 PK	74.0	-14.1	1.33 H	69	33.0	26.9
6	11510.00	49.7 AV	54.0	-4.3	1.33 H	69	22.8	26.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5610.80	54.0 PK	68.2	-14.2	1.65 V	42	40.3	13.7
2	*5755.00	112.2 PK			1.65 V	42	98.5	13.7
3	*5755.00	101.1 AV			1.65 V	42	87.4	13.7
4	#5992.80	55.6 PK	68.2	-12.6	1.65 V	42	41.5	14.1
5	11510.00	60.8 PK	74.0	-13.2	1.78 V	3	33.9	26.9
6	11510.00	50.6 AV	54.0	-3.4	1.78 V	3	23.7	26.9

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5638.00	54.2 PK	68.2	-14.0	2.78 H	39	40.6	13.6
2	*5795.00	110.7 PK			2.78 H	39	97.1	13.6
3	*5795.00	99.6 AV			2.78 H	39	86.0	13.6
4	#5986.40	56.0 PK	68.2	-12.2	2.78 H	39	41.9	14.1
5	11590.00	60.1 PK	74.0	-13.9	1.47 H	67	33.0	27.1
6	11590.00	49.9 AV	54.0	-4.1	1.47 H	67	22.8	27.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5633.20	54.6 PK	68.2	-13.6	1.65 V	42	41.0	13.6
2	*5795.00	111.5 PK			1.85 V	42	97.9	13.6
3	*5795.00	100.9 AV			1.85 V	42	87.3	13.6
4	#5996.40	55.7 PK	68.2	-12.5	1.65 V	42	41.6	14.1
5	11590.00	61.3 PK	74.0	-12.7	1.77 V	2	34.2	27.1
6	11590.00	50.2 AV	54.0	-3.8	1.77 V	2	23.1	27.1

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	65.6 PK	74.0	-8.4	2.55 H	359	53.0	12.6
2	5150.00	52.2 AV	54.0	-1.8	2.55 H	359	39.6	12.6
3	*5210.00	104.7 PK			2.55 H	359	91.9	12.8
4	*5210.00	93.7 AV			2.55 H	359	80.9	12.8
5	5350.00	54.4 PK	74.0	-19.6	2.55 H	359	40.7	13.7
6	5350.00	43.7 AV	54.0	-10.3	2.55 H	359	30.0	13.7
7	#10420.00	61.8 PK	68.2	-6.4	1.59 H	268	37.9	23.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	66.5 PK	74.0	-7.5	1.98 V	0	53.9	12.6
2	5150.00	52.7 AV	54.0	-1.3	1.98 V	0	40.1	12.6
3	*5210.00	105.9 PK			1.98 V	0	93.1	12.8
4	*5210.00	94.9 AV			1.98 V	0	82.1	12.8
5	5350.00	55.4 PK	74.0	-18.6	1.98 V	0	41.7	13.7
6	5350.00	44.1 AV	54.0	-9.9	1.98 V	0	30.4	13.7
7	#10420.00	62.7 PK	68.2	-5.5	1.35 V	356	38.8	23.9

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	54.7 PK	74.0	-19.3	3.27 H	25	42.1	12.6
2	5150.00	43.6 AV	54.0	-10.4	3.27 H	25	31.0	12.6
3	*5290.00	105.3 PK			3.27 H	25	91.8	13.5
4	*5290.00	94.7 AV			3.27 H	25	81.2	13.5
5	5350.00	60.0 PK	74.0	-14.0	3.27 H	25	46.3	13.7
6	5350.00	47.7 AV	54.0	-6.3	3.27 H	25	34.0	13.7
7	#10580.00	62.9 PK	68.2	-5.3	1.20 H	271	38.4	24.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	55.1 PK	74.0	-18.9	2.70 V	338	42.5	12.6
2	5150.00	44.0 AV	54.0	-10.0	2.70 V	338	31.4	12.6
3	*5290.00	106.7 PK			2.70 V	338	93.2	13.5
4	*5290.00	95.8 AV			2.70 V	338	82.3	13.5
5	5350.00	61.9 PK	74.0	-12.1	2.70 V	338	48.2	13.7
6	5350.00	48.3 AV	54.0	-5.7	2.70 V	338	34.6	13.7
7	#10580.00	63.8 PK	68.2	-4.4	1.75 V	359	39.3	24.5

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	59.0 PK	74.0	-15.0	2.85 H	104	44.9	14.1
2	5460.00	47.5 AV	54.0	-6.5	2.85 H	104	33.4	14.1
3	#5470.00	61.1 PK	68.2	-7.1	2.85 H	104	47.0	14.1
4	*5530.00	105.4 PK			2.85 H	104	91.2	14.2
5	*5530.00	95.1 AV			2.85 H	104	80.9	14.2
6	11060.00	60.5 PK	74.0	-13.5	1.43 H	77	34.7	25.8
7	11060.00	50.0 AV	54.0	-4.0	1.43 H	77	24.2	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	61.4 PK	74.0	-12.6	2.28 V	354	47.3	14.1
2	5460.00	48.9 AV	54.0	-5.1	2.28 V	354	34.8	14.1
3	#5470.00	64.6 PK	68.2	-3.6	2.28 V	354	50.5	14.1
4	*5530.00	106.6 PK			2.28 V	354	92.4	14.2
5	*5530.00	96.2 AV			2.28 V	354	82.0	14.2
6	11060.00	61.4 PK	74.0	-12.6	1.81 V	6	35.6	25.8
7	11060.00	50.6 AV	54.0	-3.4	1.81 V	6	24.8	25.8

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5610.00	106.9 PK			2.84 H	162	93.2	13.7
2	*5610.00	96.3 AV			2.84 H	162	82.6	13.7
3	#5725.00	55.9 PK	68.2	-12.3	2.84 H	162	42.3	13.6
4	11220.00	59.9 PK	74.0	-14.1	1.44 H	78	33.2	26.7
5	11220.00	49.4 AV	54.0	-4.6	1.44 H	78	22.7	26.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5610.00	107.7 PK			2.27 V	42	94.0	13.7
2	*5610.00	97.3 AV			2.27 V	42	83.6	13.7
3	#5725.00	56.4 PK	68.2	-11.8	2.27 V	42	42.8	13.6
4	11220.00	61.2 PK	74.0	-12.8	1.82 V	6	34.5	26.7
5	11220.00	50.6 AV	54.0	-3.4	1.82 V	6	23.9	26.7

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120Vac,60Hz	**Environmental Conditions**	19.8°C, 63.2% RH
Tested By	Jed Wu		

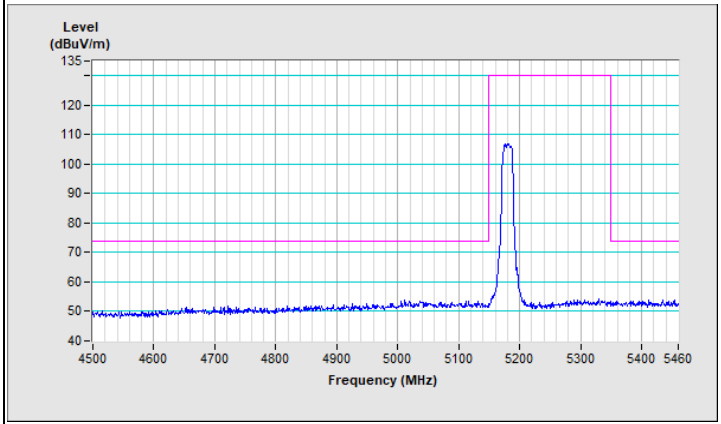
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5647.60	55.5 PK	68.2	-12.7	2.83 H	40	41.9	13.6
2	*5775.00	107.1 PK			2.83 H	40	93.5	13.6
3	*5775.00	96.3 AV			2.83 H	40	82.7	13.6
4	#5948.80	55.6 PK	68.2	-12.6	2.83 H	40	41.4	14.2
5	11550.00	59.4 PK	74.0	-14.6	1.39 H	66	32.4	27.0
6	11550.00	48.7 AV	54.0	-5.3	1.39 H	66	21.7	27.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5628.00	55.0 PK	68.2	-13.2	1.71 V	44	41.4	13.6
2	*5775.00	108.7 PK			1.71 V	44	95.1	13.6
3	*5775.00	97.5 AV			1.71 V	44	83.9	13.6
4	#5936.80	55.5 PK	68.2	-12.7	1.71 V	44	41.3	14.2
5	11550.00	60.3 PK	74.0	-13.7	1.70 V	9	33.3	27.0
6	11550.00	49.6 AV	54.0	-4.4	1.70 V	9	22.6	27.0

Remarks:

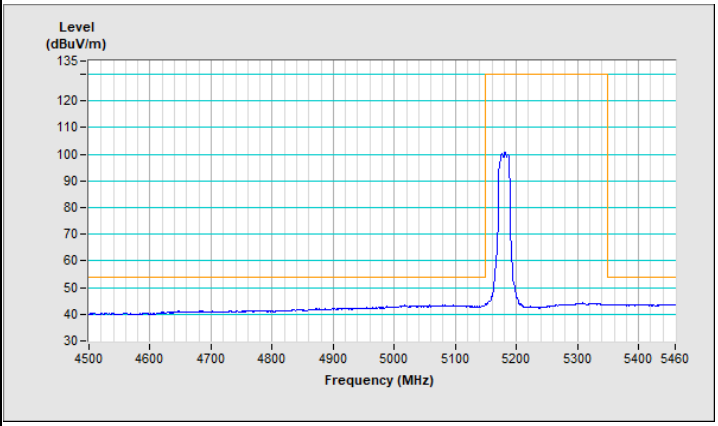
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

802.11a Channel 36



Horizontal (Peak)



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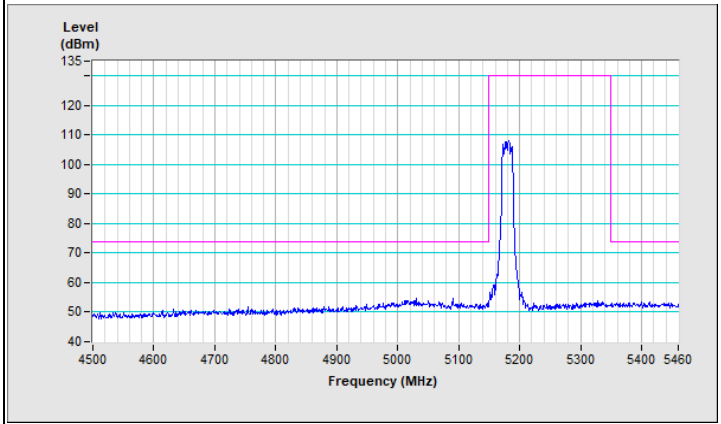
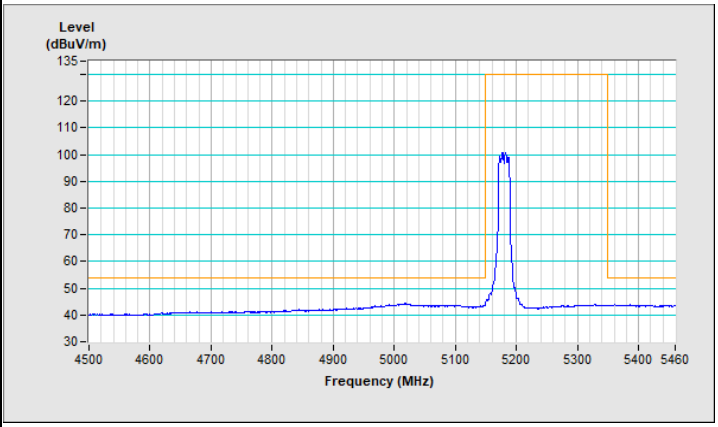
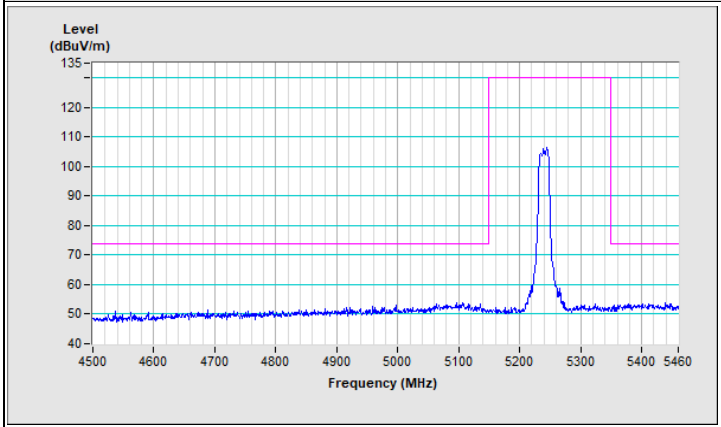


Vertical (Peak)



Vertical (Average)

802.11a Channel 48



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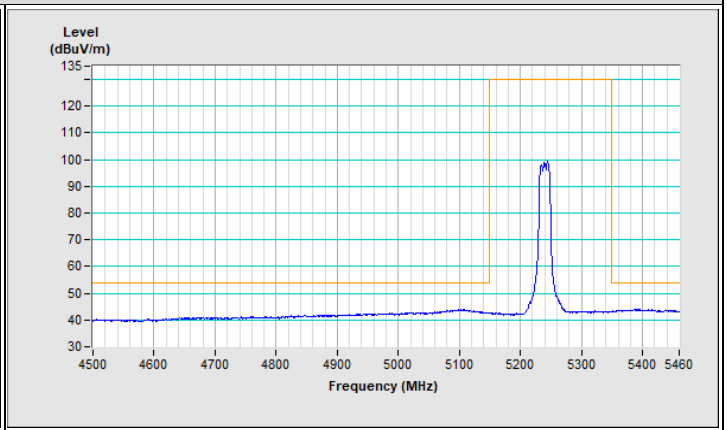
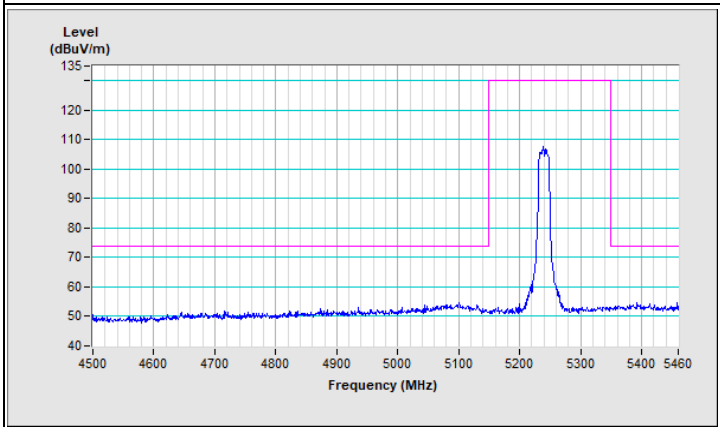
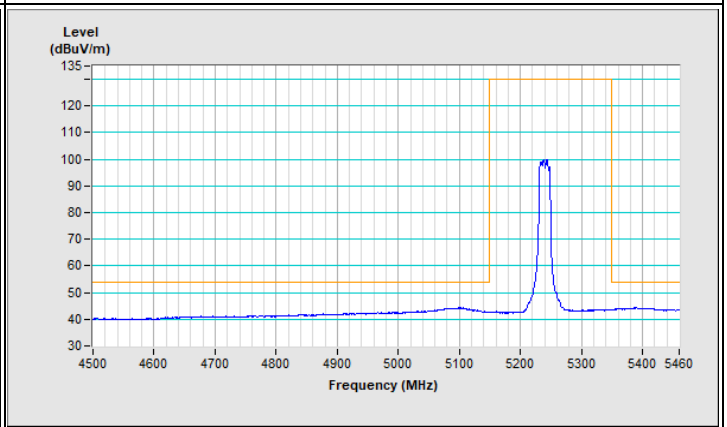


Horizontal (Average)

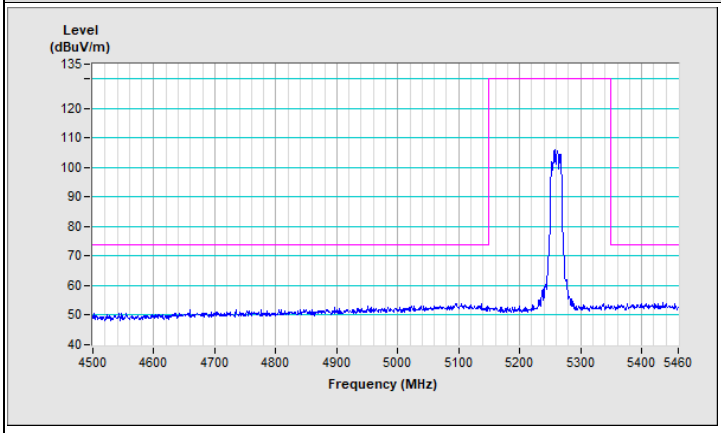


Vertical (Peak)

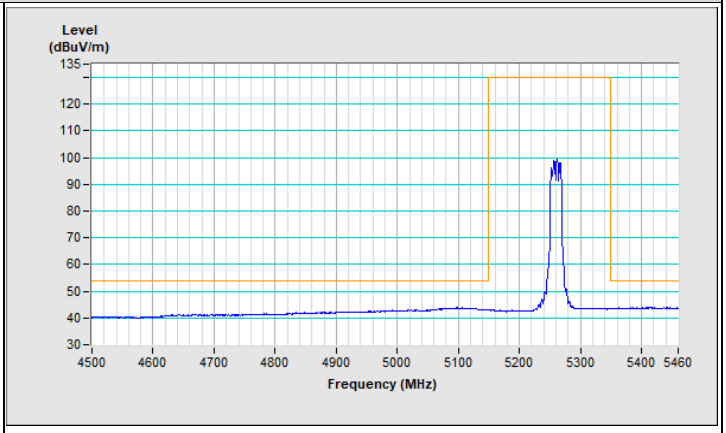


Vertical (Average)

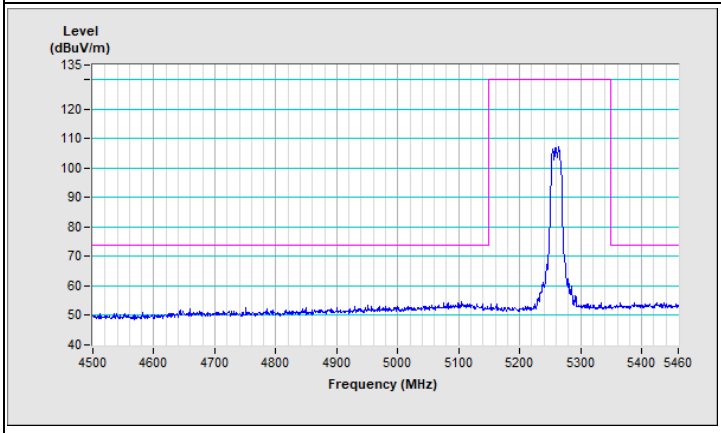
802.11a Channel 52



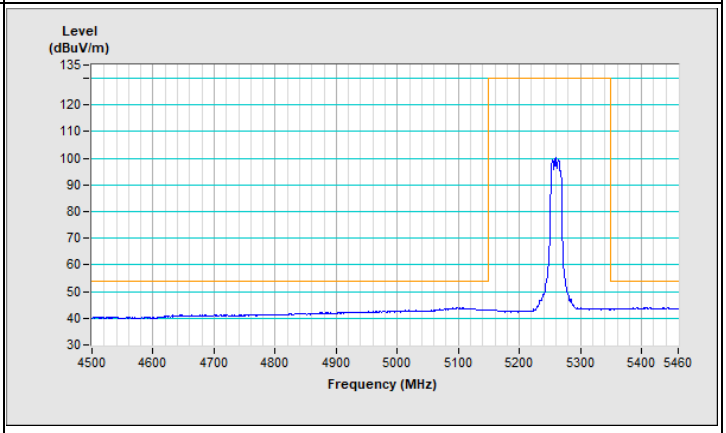
Horizontal (Peak)



Horizontal (Average)

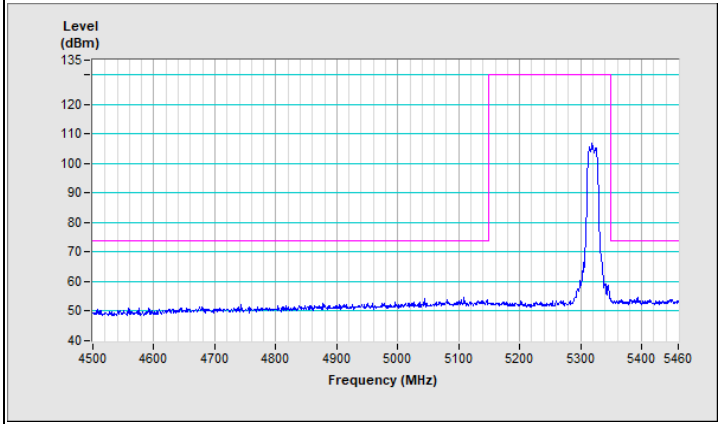


Vertical (Peak)

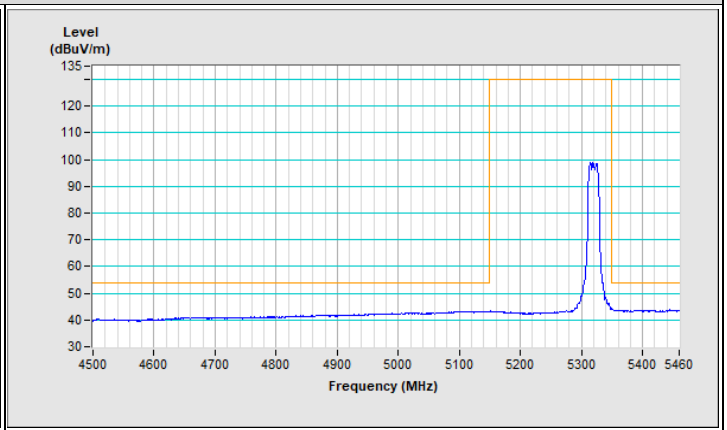


Vertical (Average)

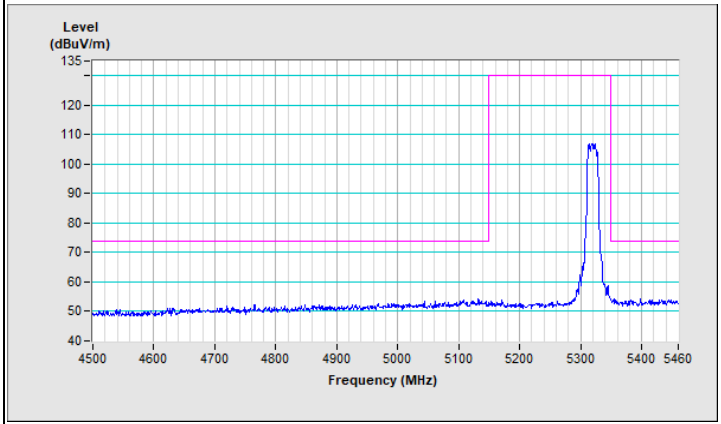
802.11a Channel 64



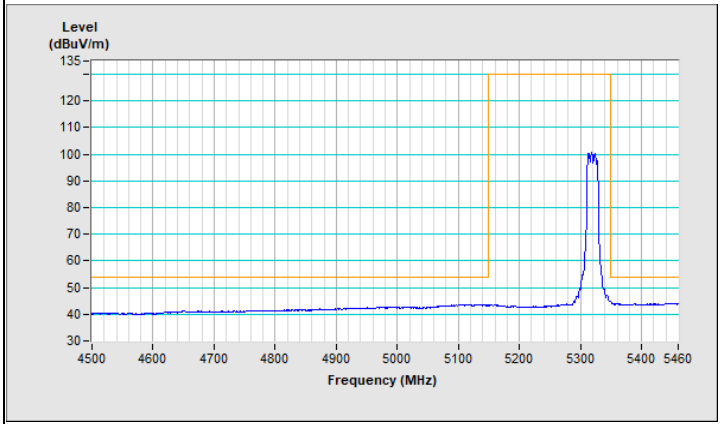
Horizontal (Peak)



Horizontal (Average)

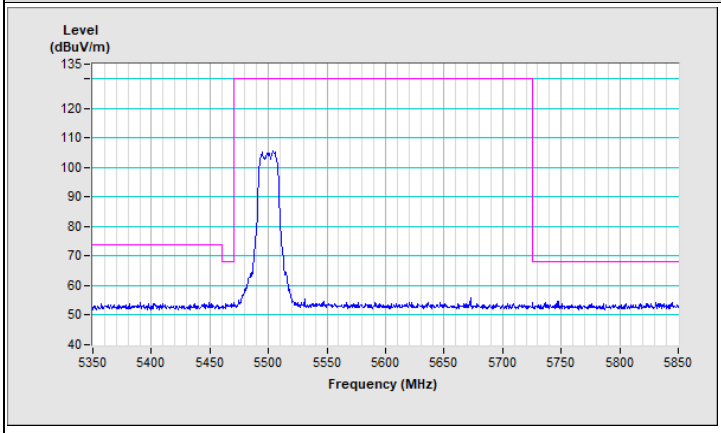


Vertical (Peak)

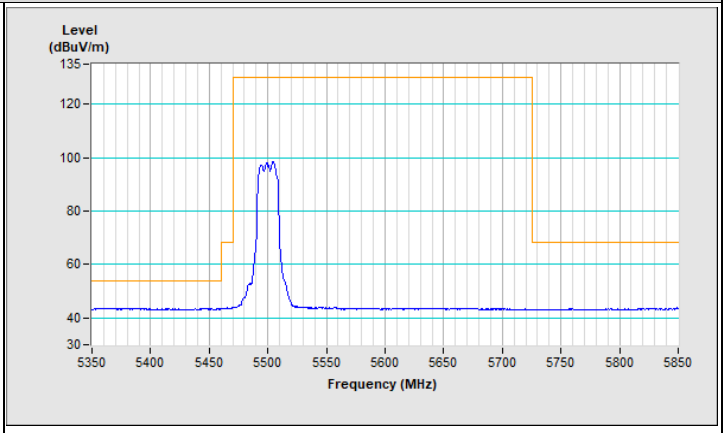


Vertical (Average)

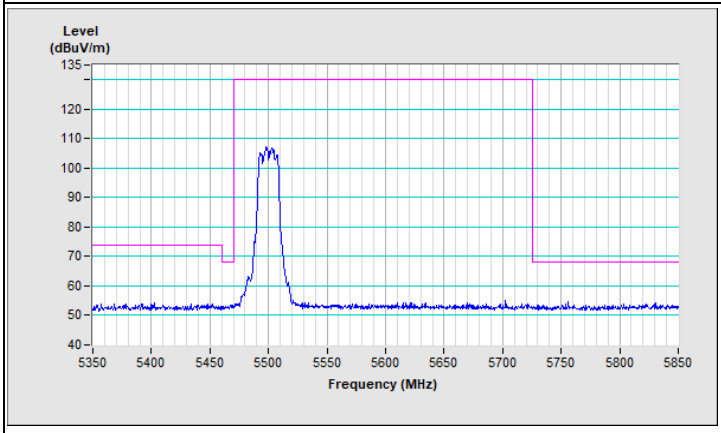
802.11a Channel 100



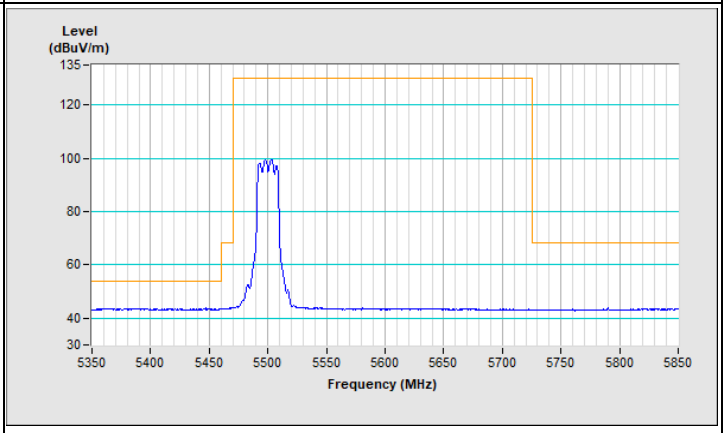
Horizontal (Peak)



Horizontal (Average)

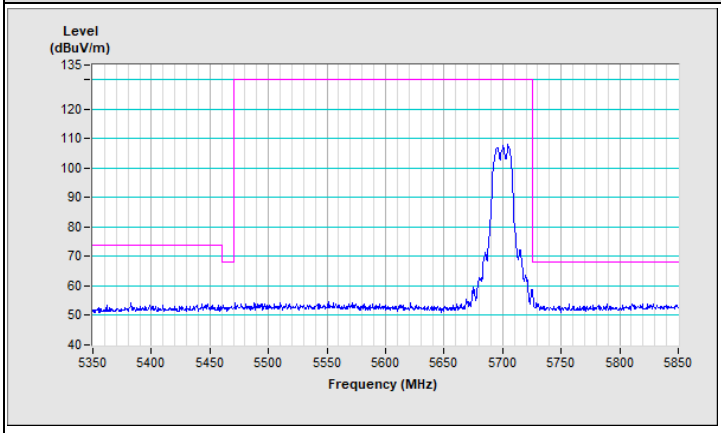


Vertical (Peak)

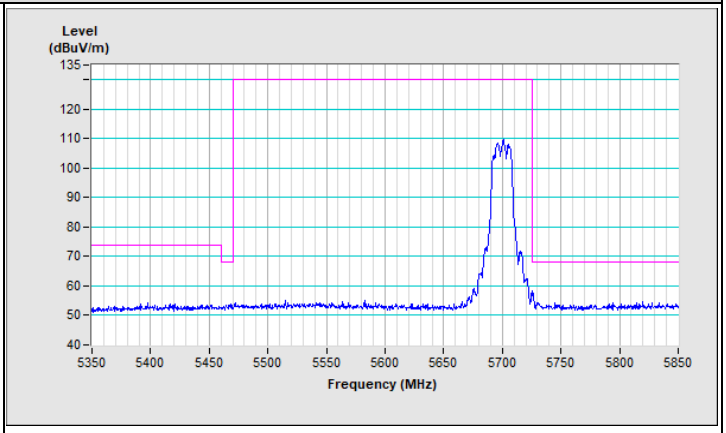


Vertical (Average)

802.11a Channel 140

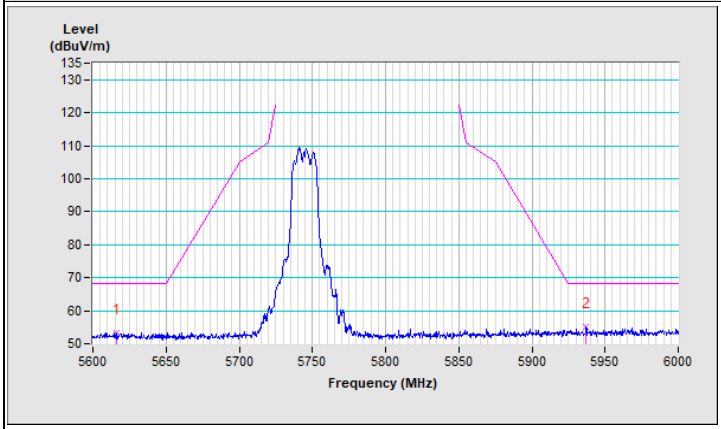


Horizontal (Peak)

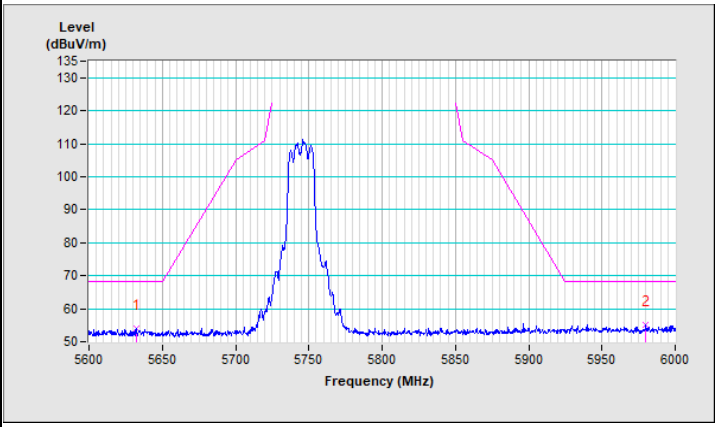


Vertical (Peak)

802.11a Channel 149

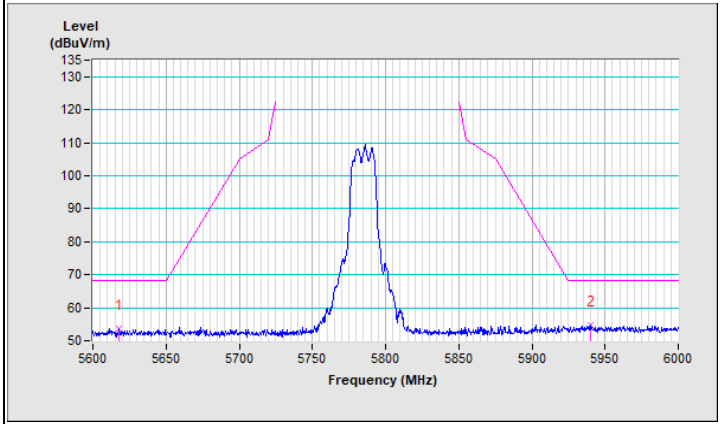


Horizontal (Peak)

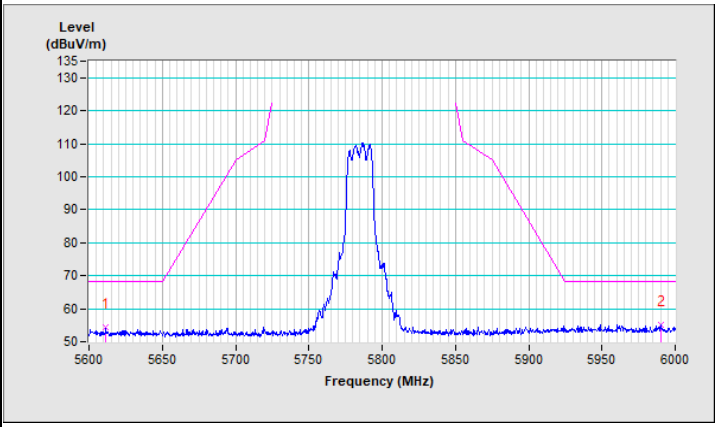


Vertical (Peak)

802.11a Channel 157

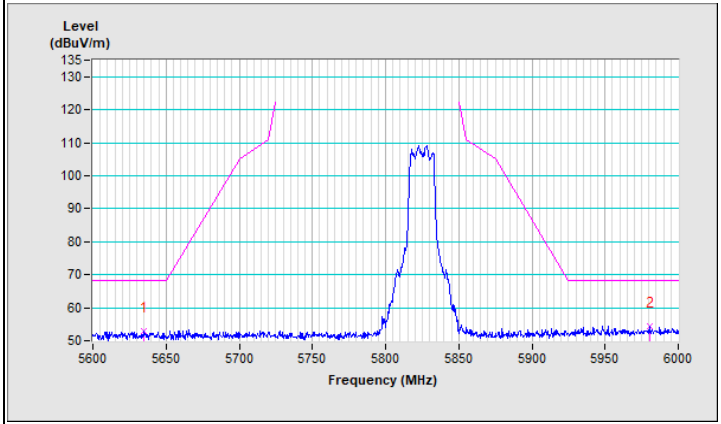


Horizontal (Peak)

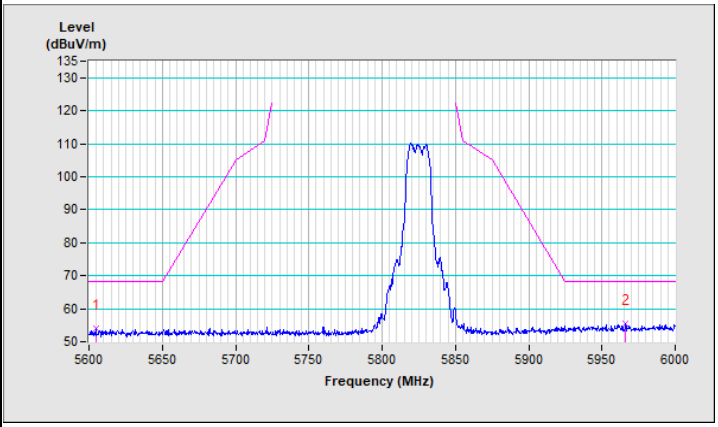


Vertical (Peak)

802.11a Channel 165

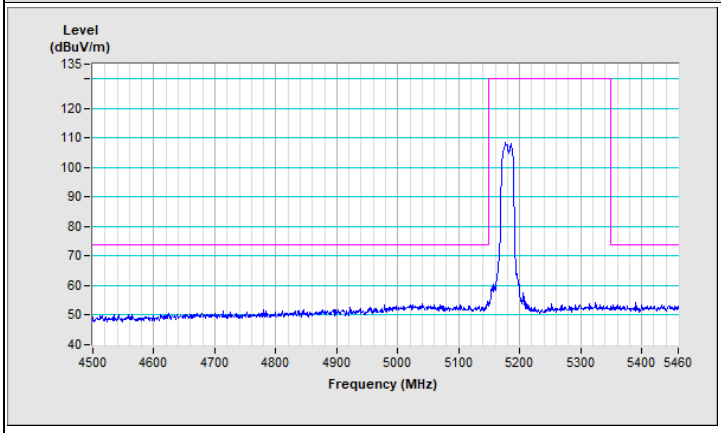


Horizontal (Peak)

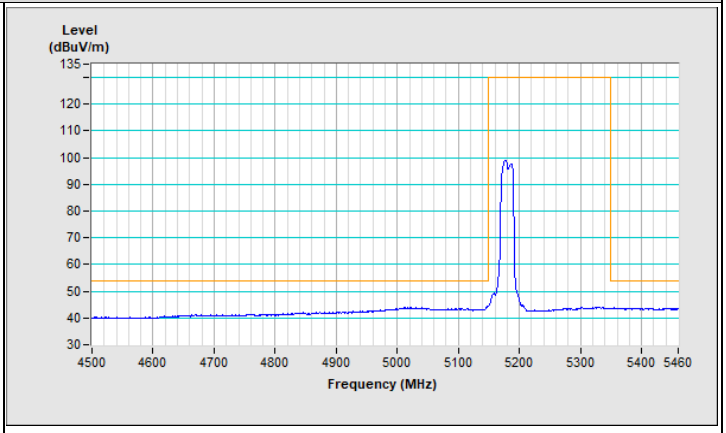


Vertical (Peak)

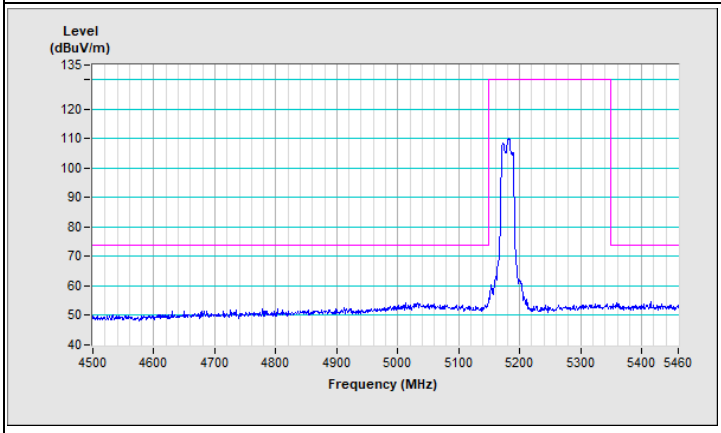
802.11ax (HE20) Channel 36



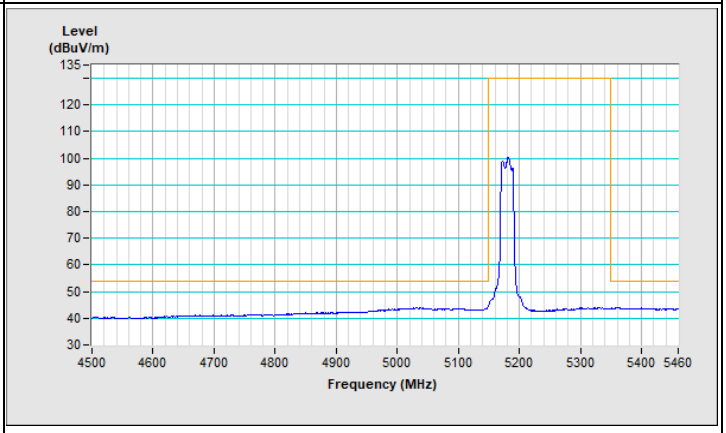
Horizontal (Peak)



Horizontal (Average)

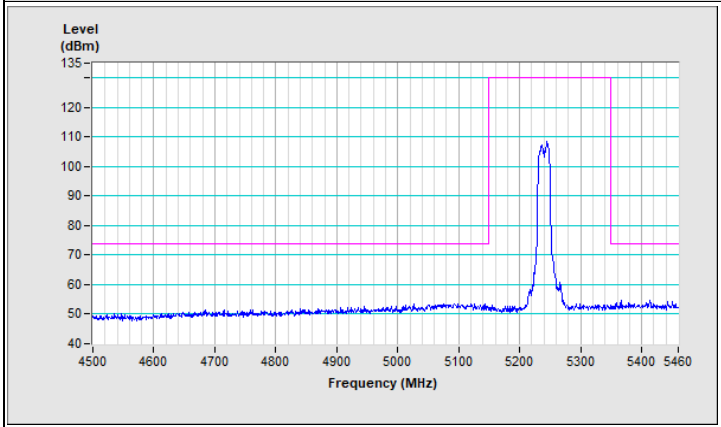


Vertical (Peak)

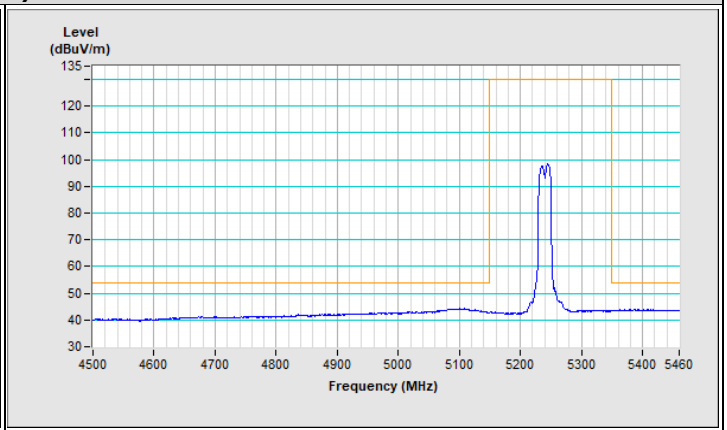


Vertical (Average)

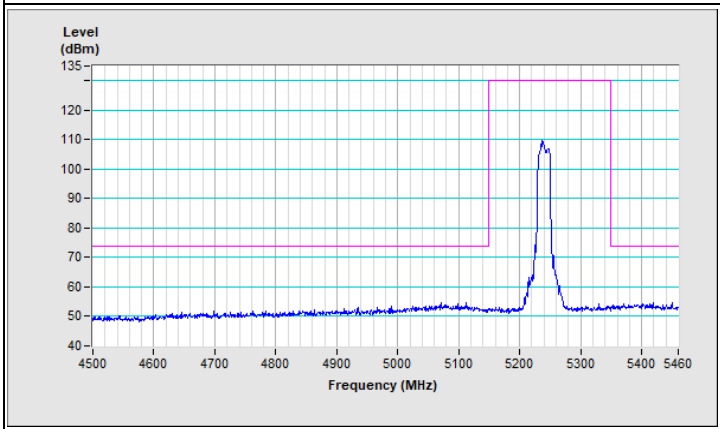
802.11ax (HE20) Channel 48



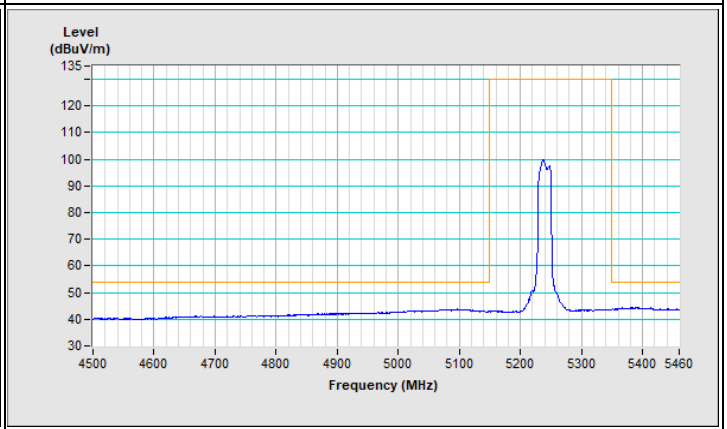
Horizontal (Peak)



Horizontal (Average)

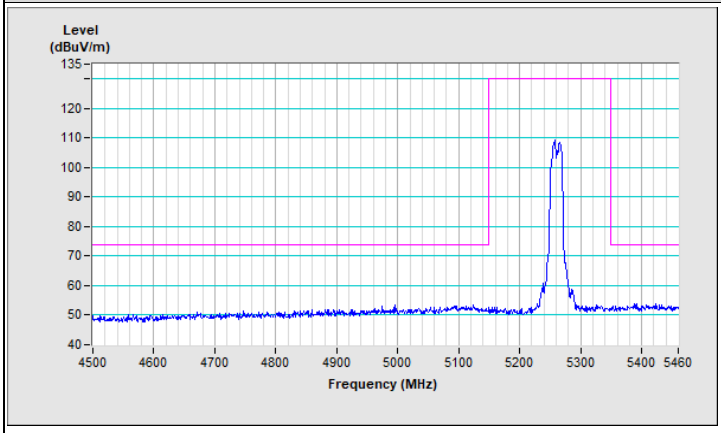


Vertical (Peak)

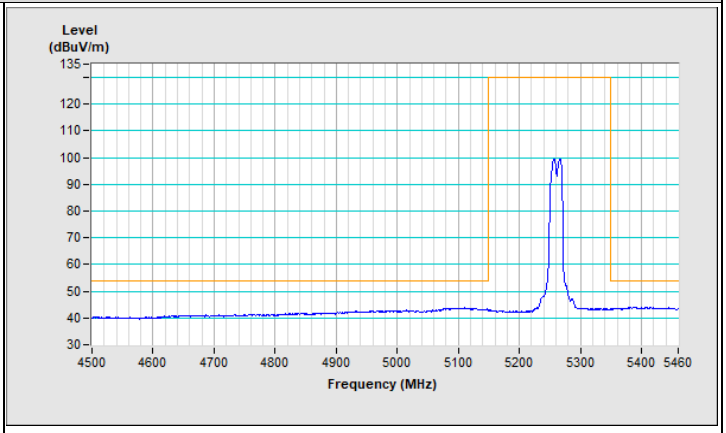


Vertical (Average)

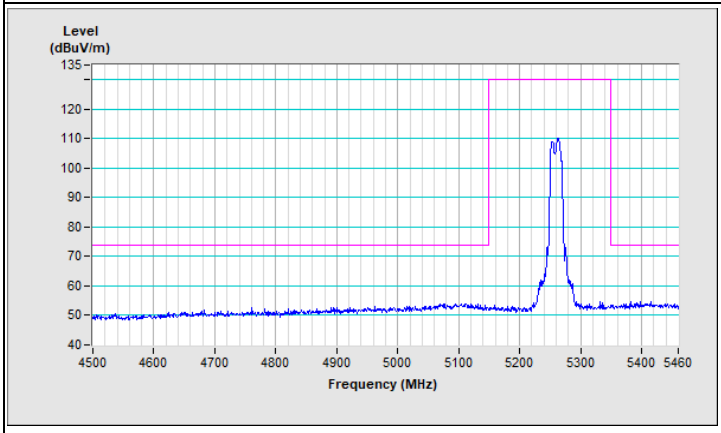
802.11ax (HE20) Channel 52



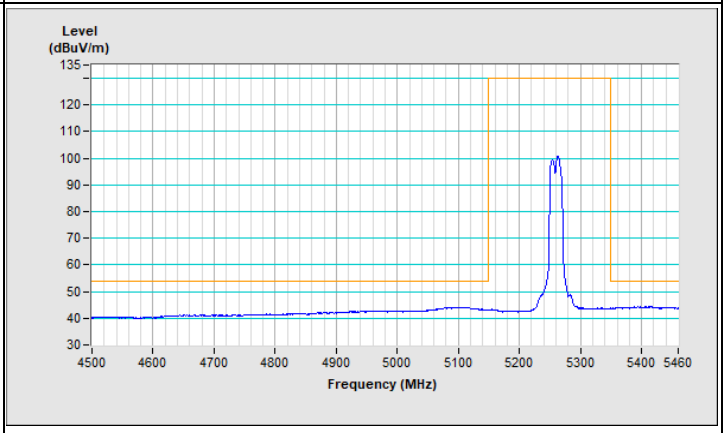
Horizontal (Peak)



Horizontal (Average)

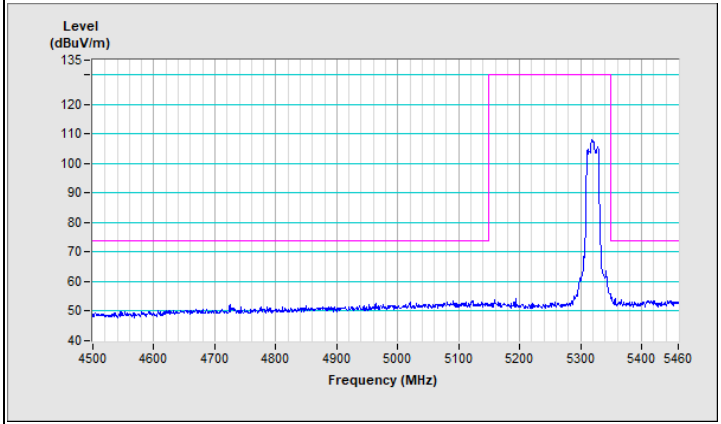


Vertical (Peak)

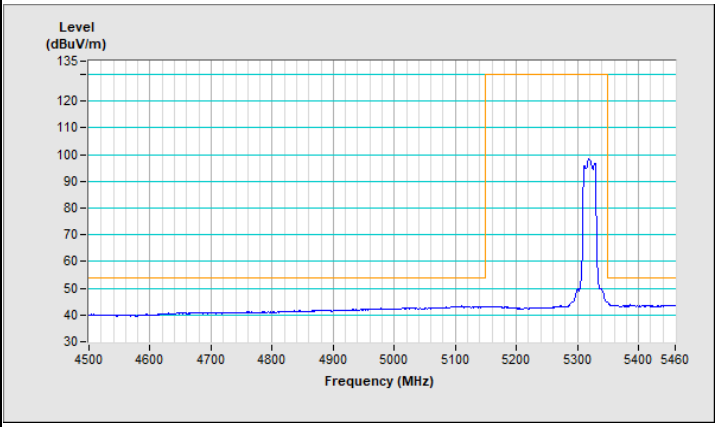


Vertical (Average)

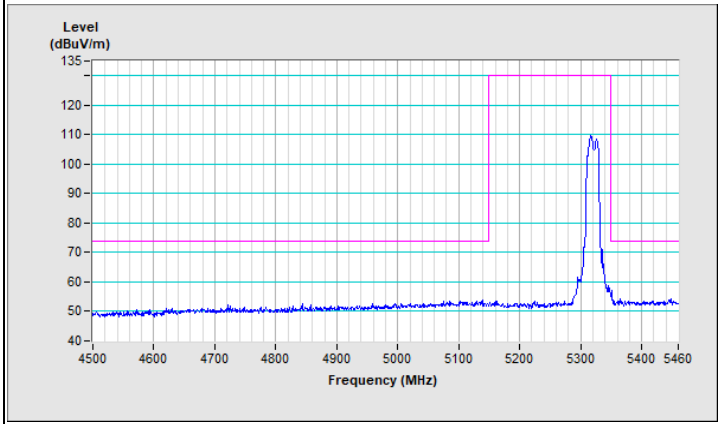
802.11ax (HE20) Channel 64



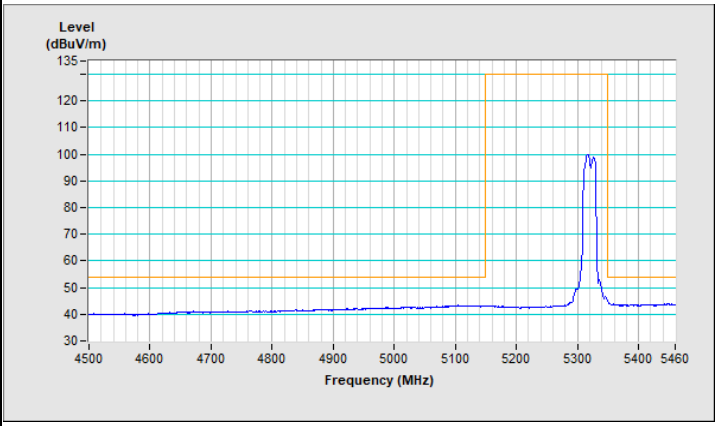
Horizontal (Peak)



Horizontal (Average)

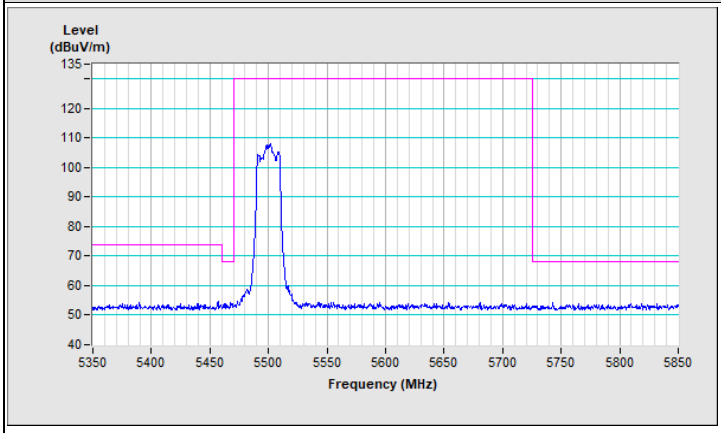


Vertical (Peak)

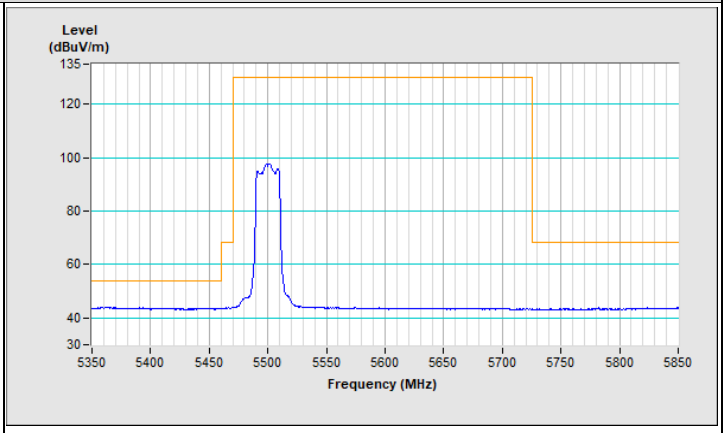


Vertical (Average)

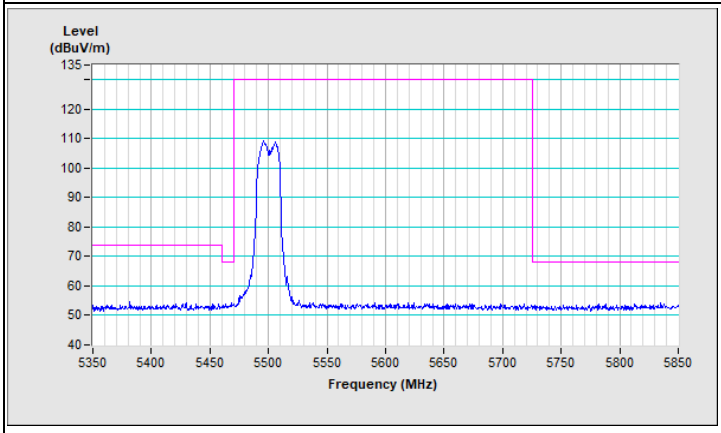
802.11ax (HE20) Channel 100



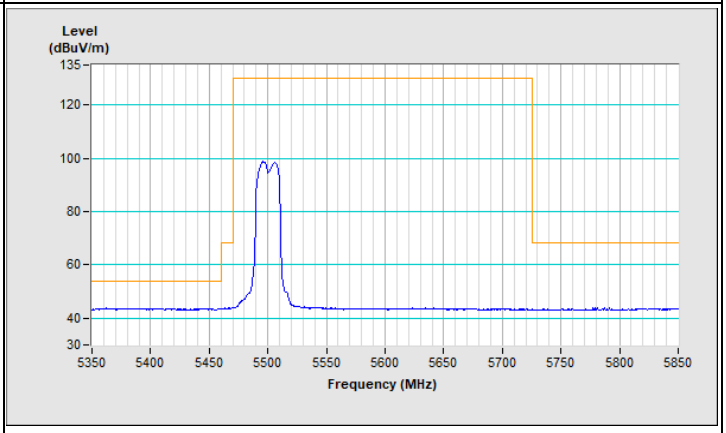
Horizontal (Peak)



Horizontal (Average)

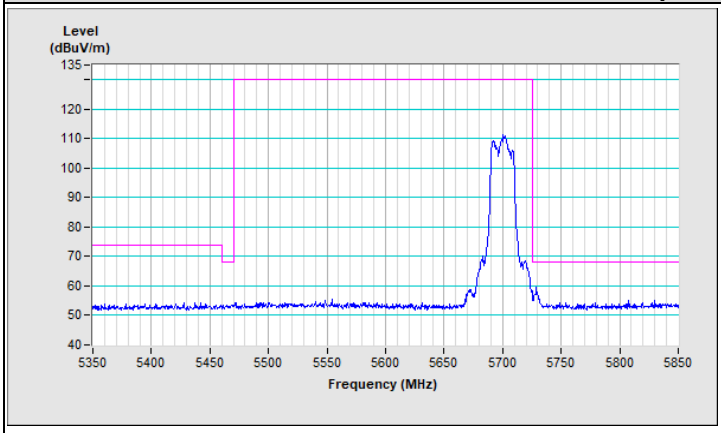


Vertical (Peak)

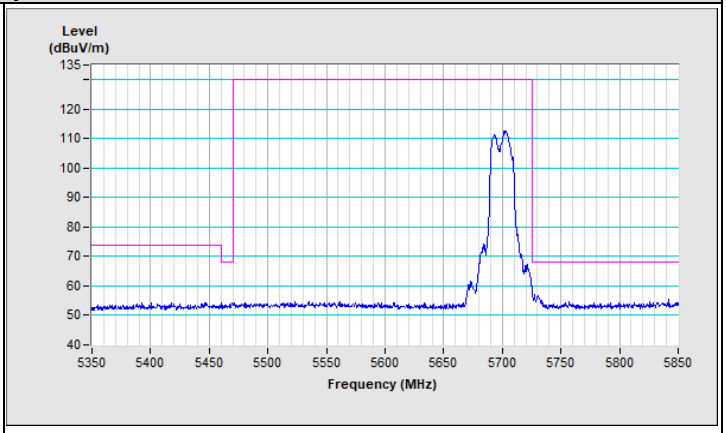


Vertical (Average)

802.11ax (HE20) Channel 140

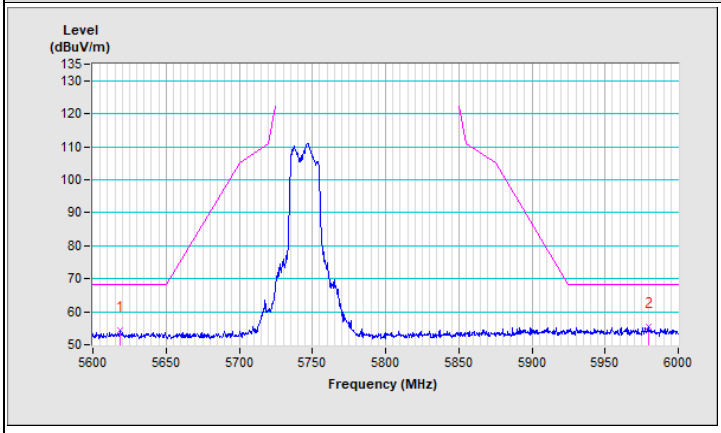


Horizontal (Peak)

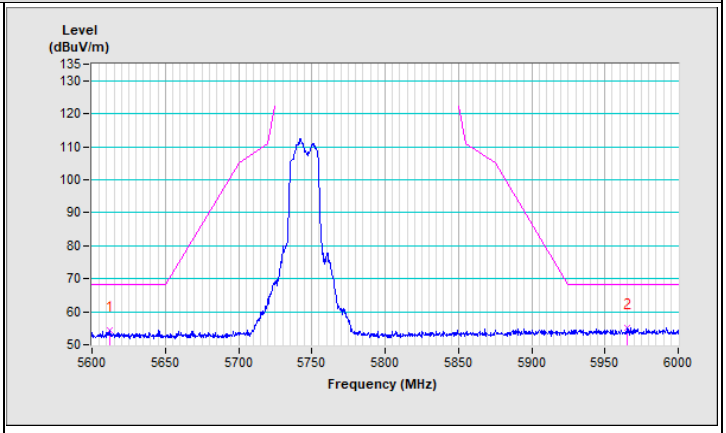


Vertical (Peak)

802.11ax (HE20) Channel 149

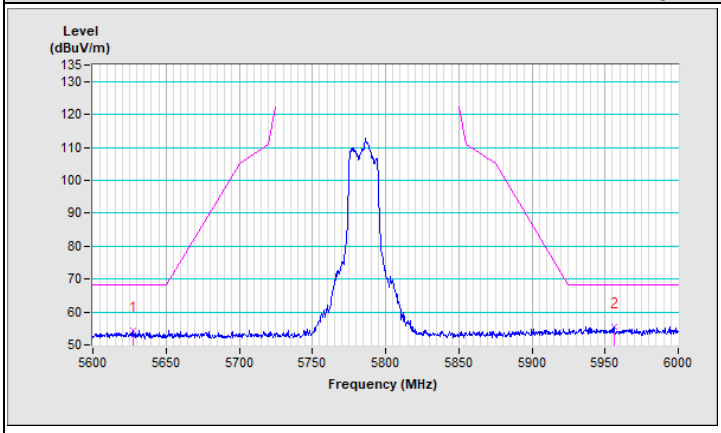


Horizontal (Peak)

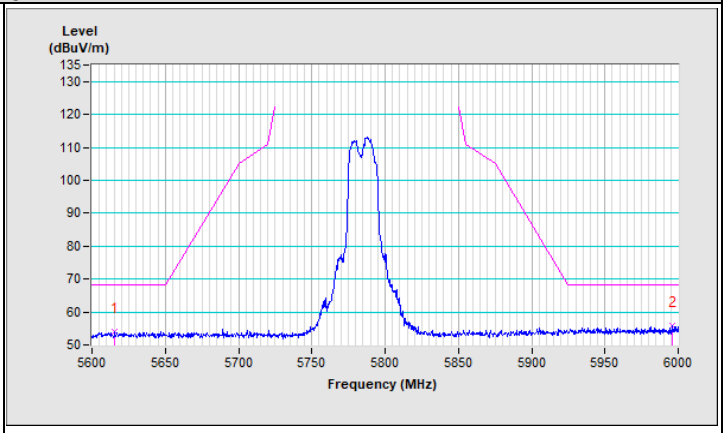


Vertical (Peak)

802.11ax (HE20) Channel 157

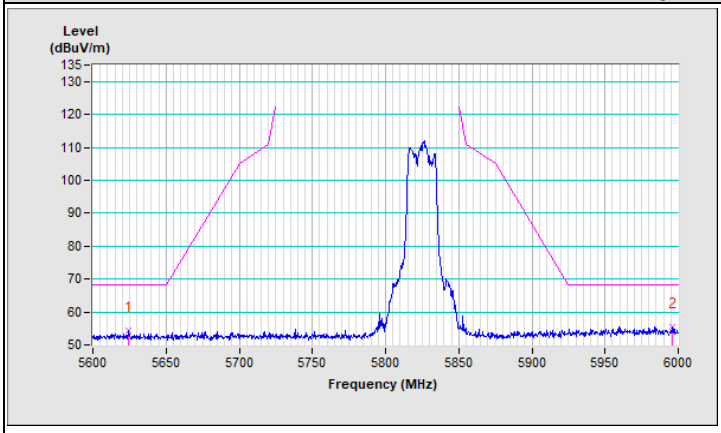


Horizontal (Peak)

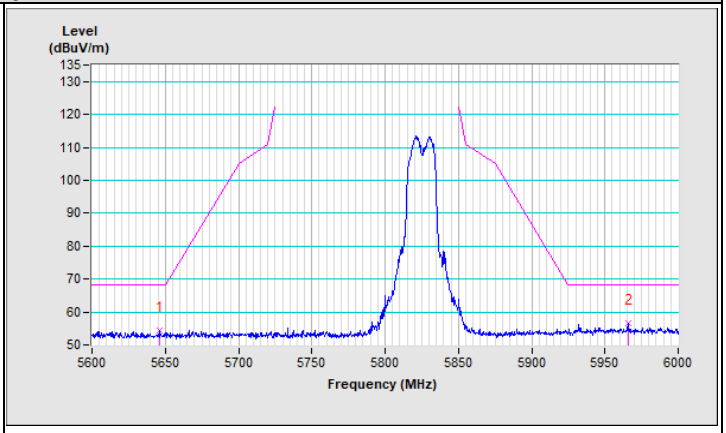


Vertical (Peak)

802.11ax (HE20) Channel 165

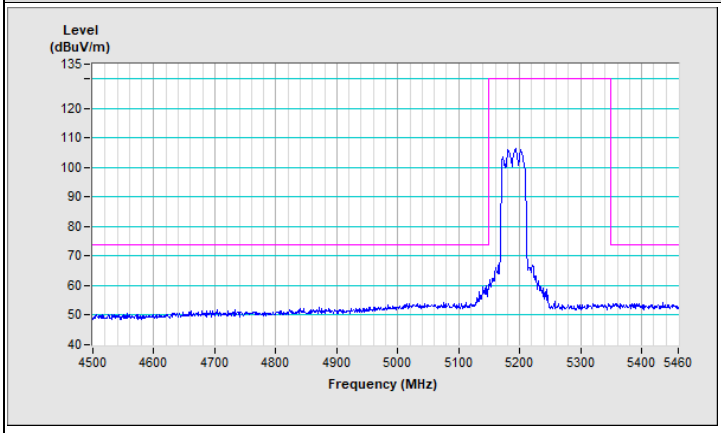


Horizontal (Peak)

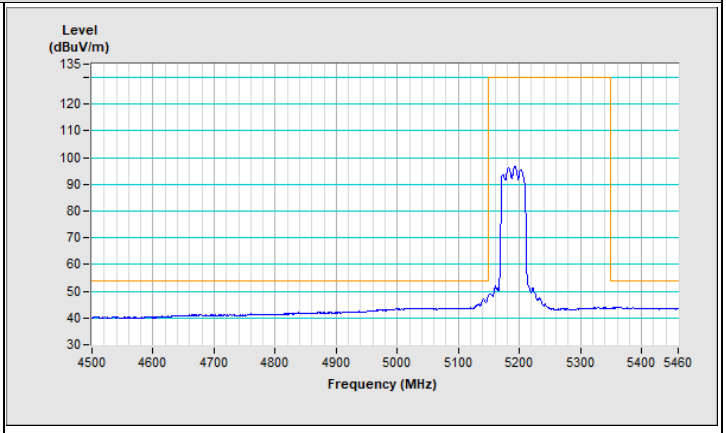


Vertical (Peak)

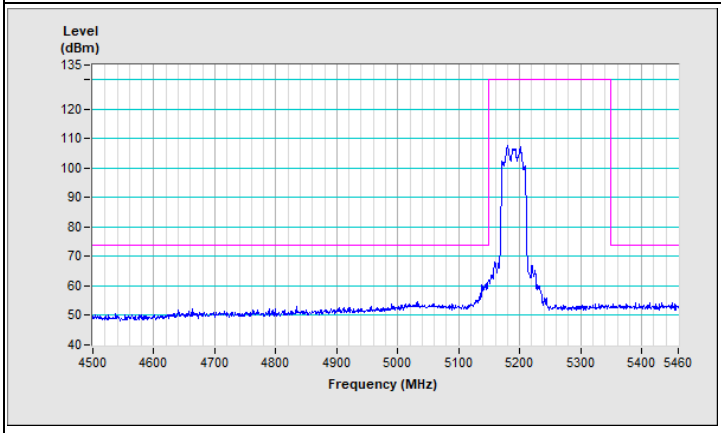
802.11ax (HE40) Channel 38



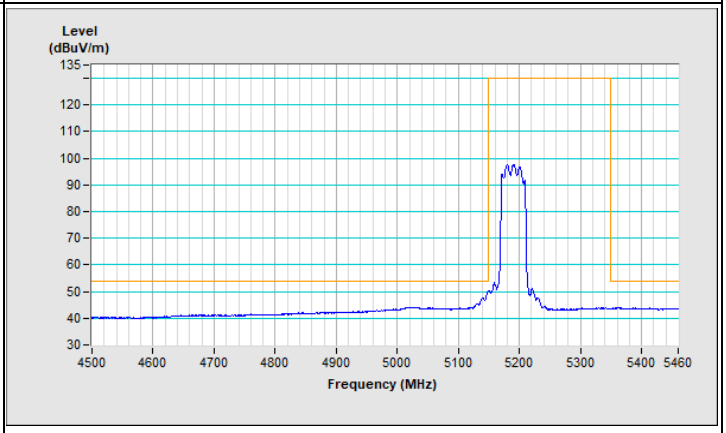
Horizontal (Peak)



Horizontal (Average)

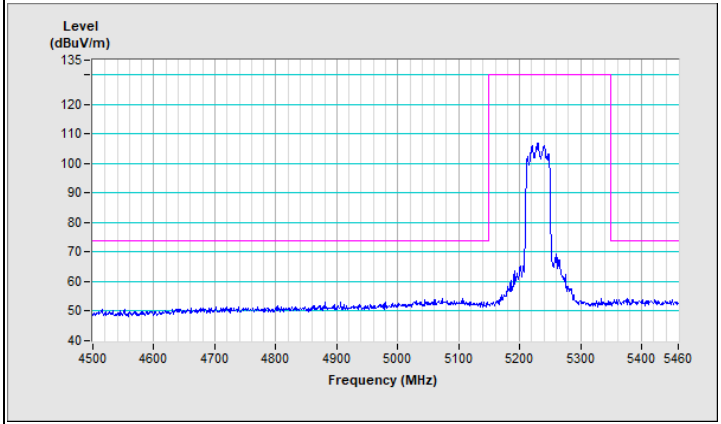


Vertical (Peak)

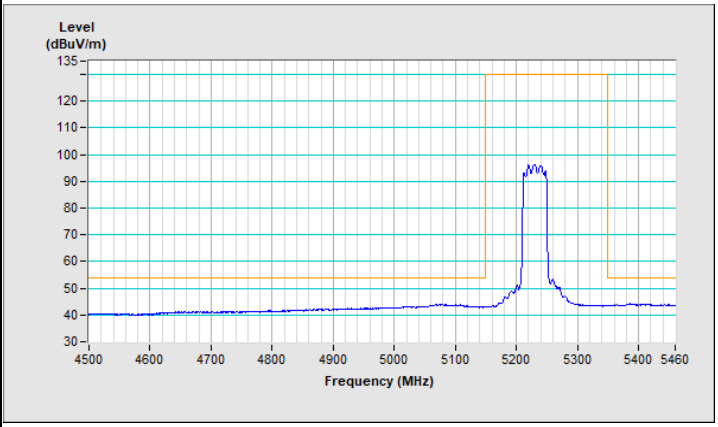


Vertical (Average)

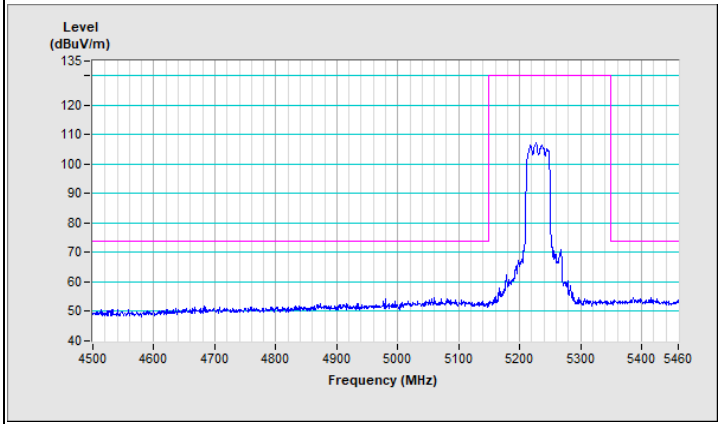
802.11ax (HE40) Channel 46



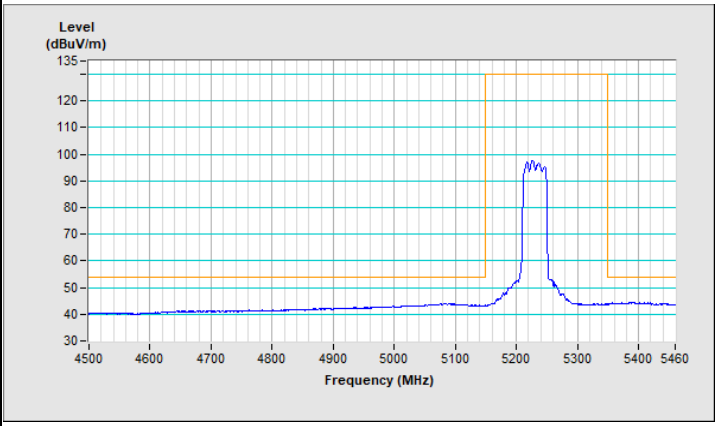
Horizontal (Peak)



Horizontal (Average)

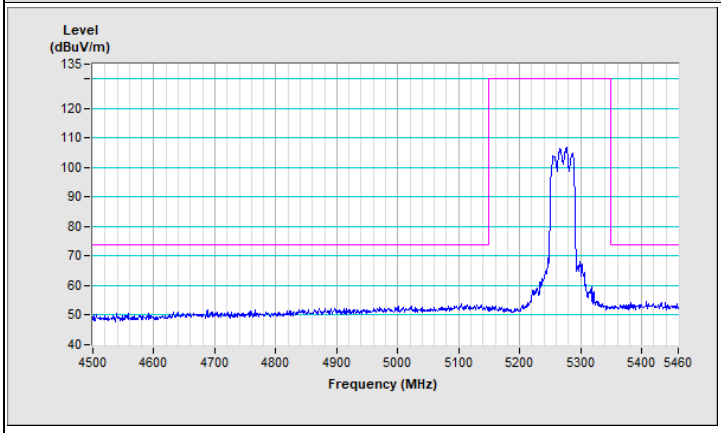


Vertical (Peak)

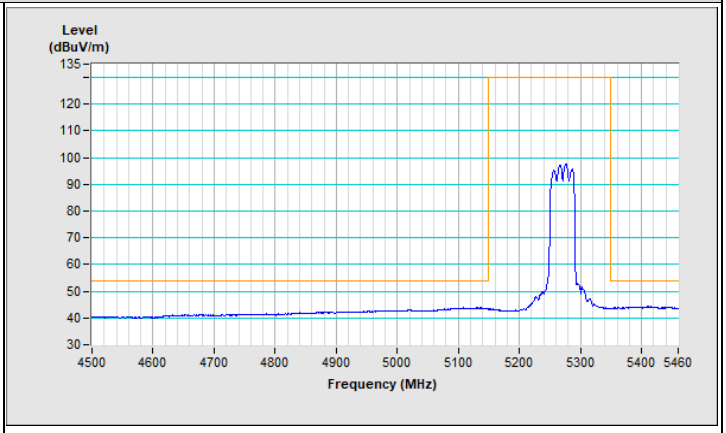


Vertical (Average)

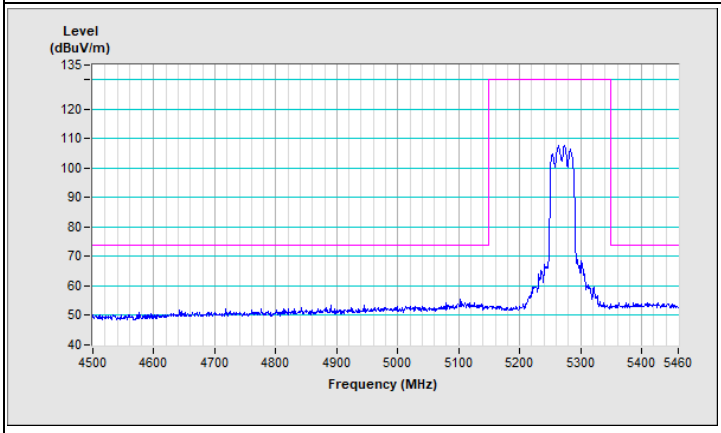
802.11ax (HE40) Channel 54



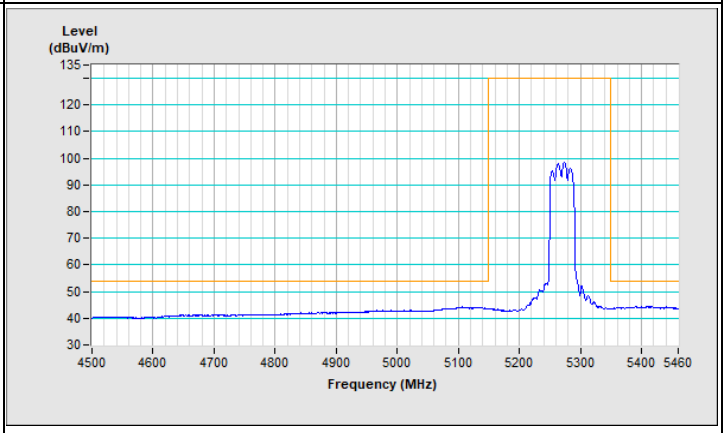
Horizontal (Peak)



Horizontal (Average)

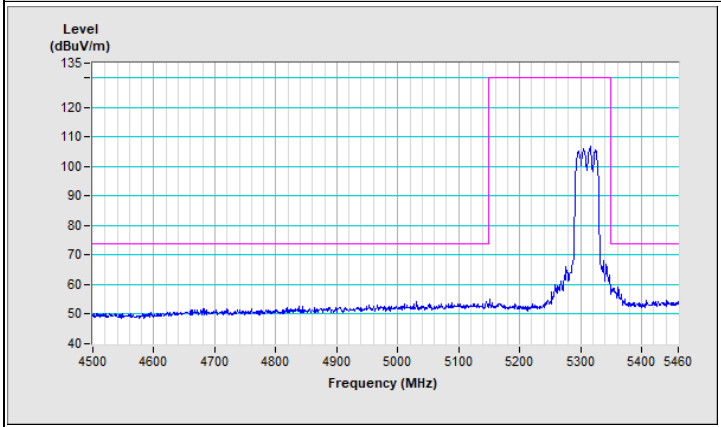


Vertical (Peak)

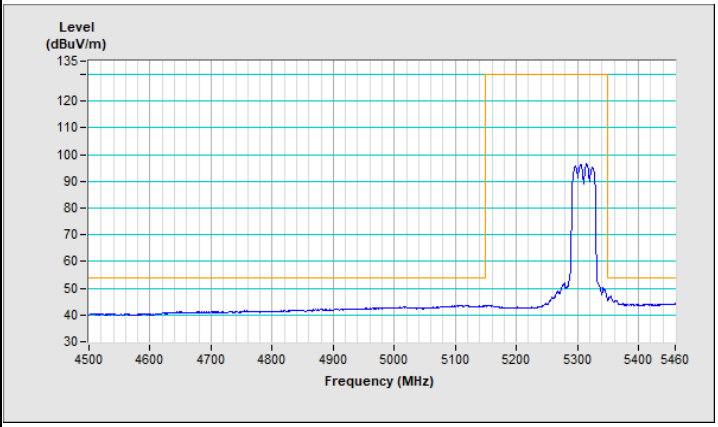


Vertical (Average)

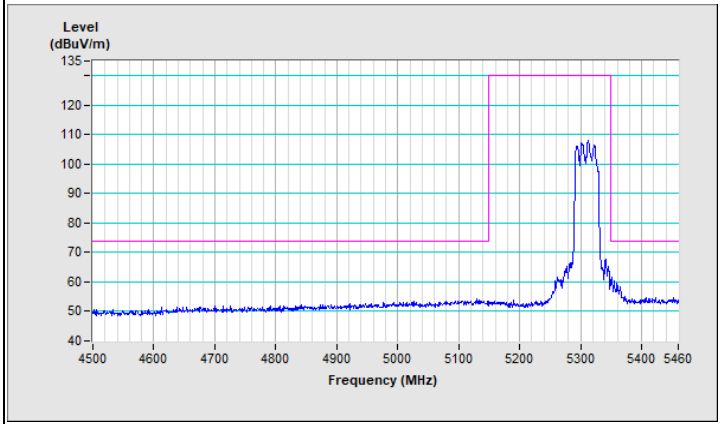
802.11ax (HE40) Channel 62



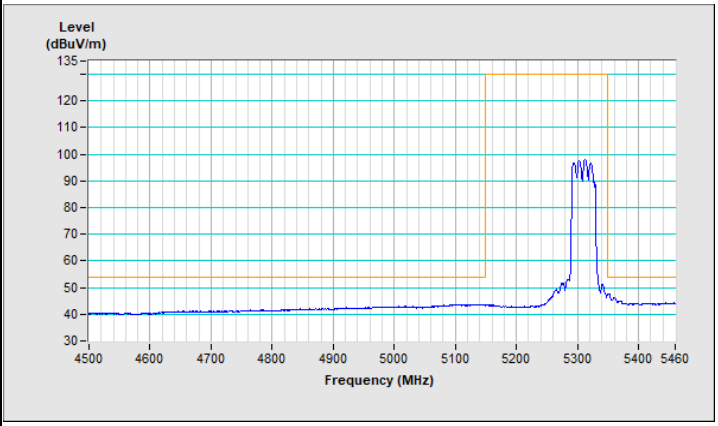
Horizontal (Peak)



Horizontal (Average)

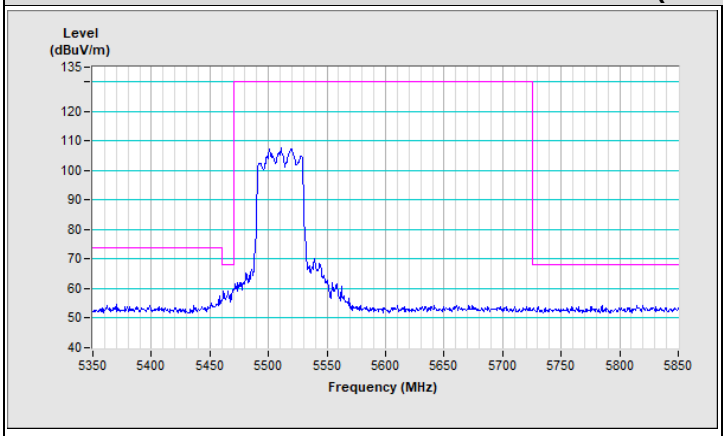


Vertical (Peak)

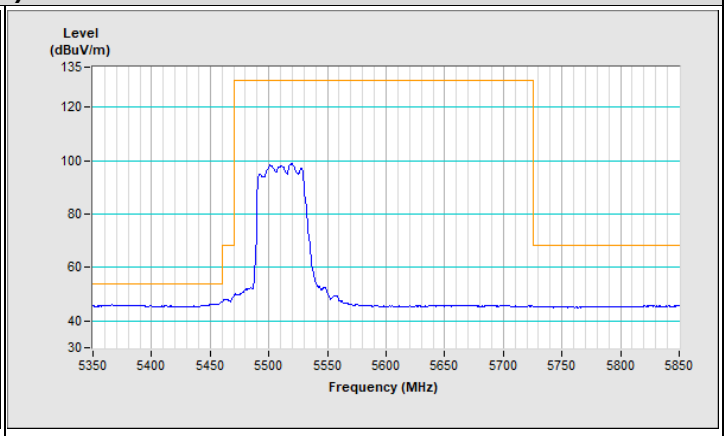


Vertical (Average)

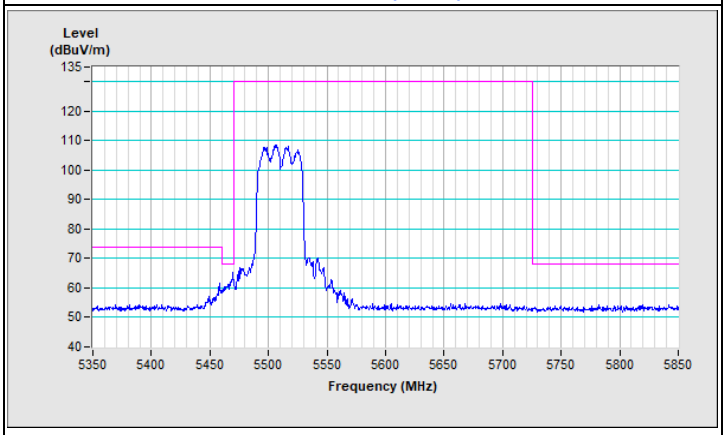
802.11ax (HE40) Channel 102



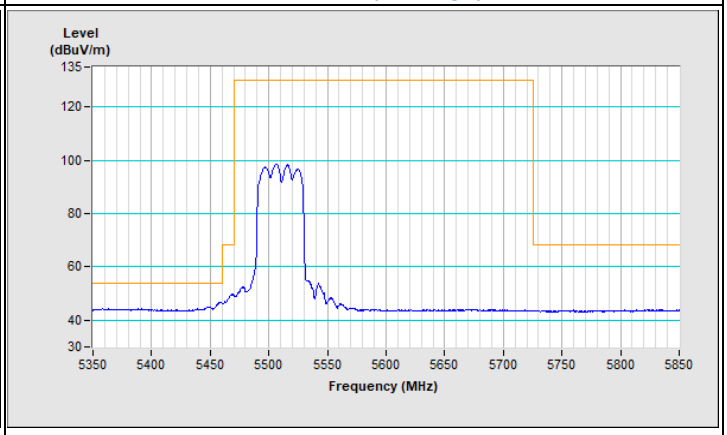
Horizontal (Peak)



Horizontal (Average)

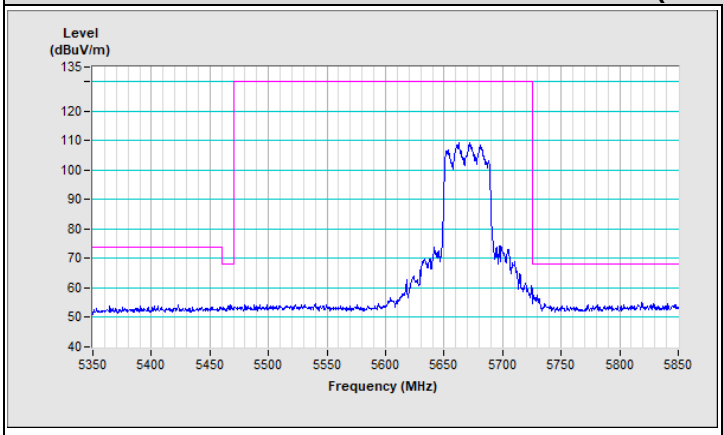


Vertical (Peak)

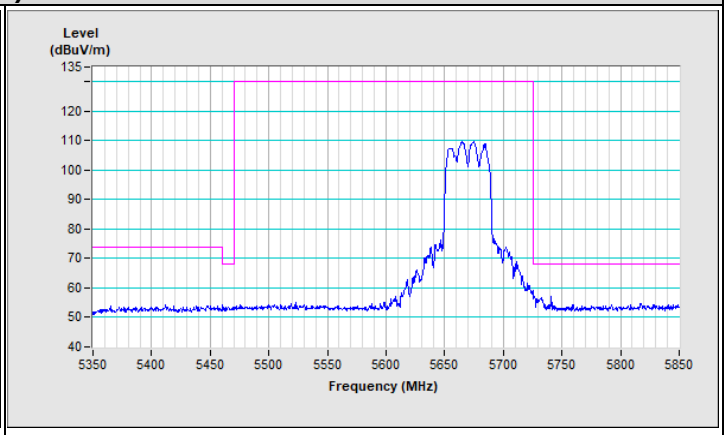


Vertical (Average)

802.11ax (HE40) Channel 134

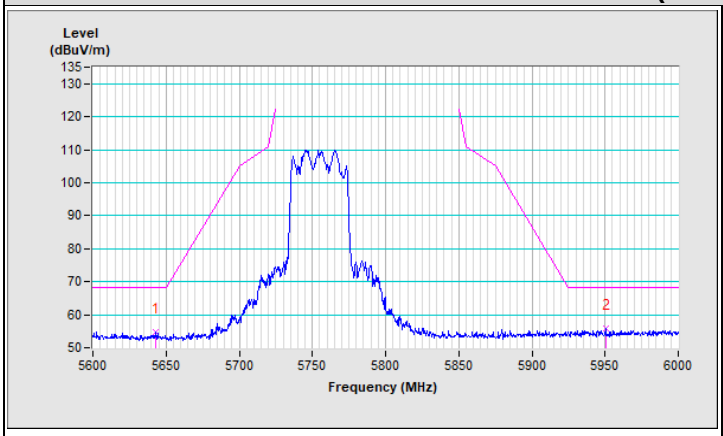


Horizontal (Peak)



Vertical (Peak)

802.11ax (HE40) Channel 151



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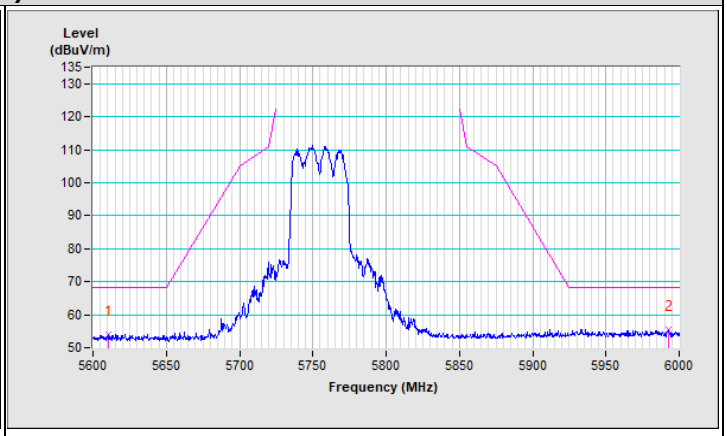
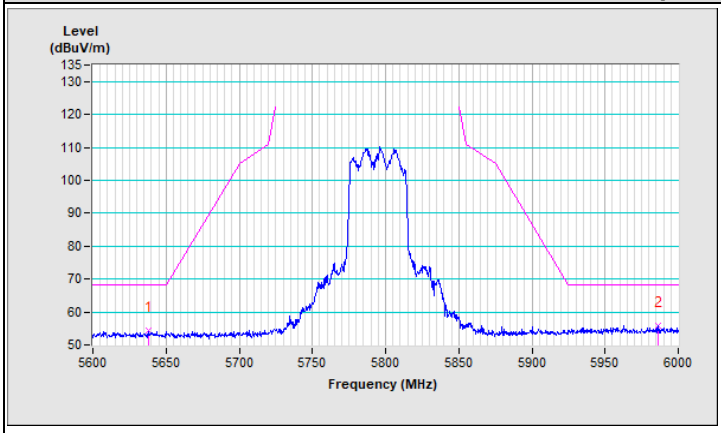
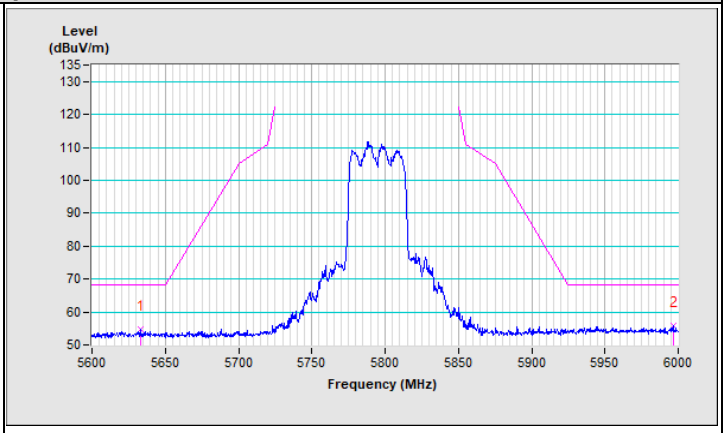


Vertical (Peak)

802.11ax (HE40) Channel 159

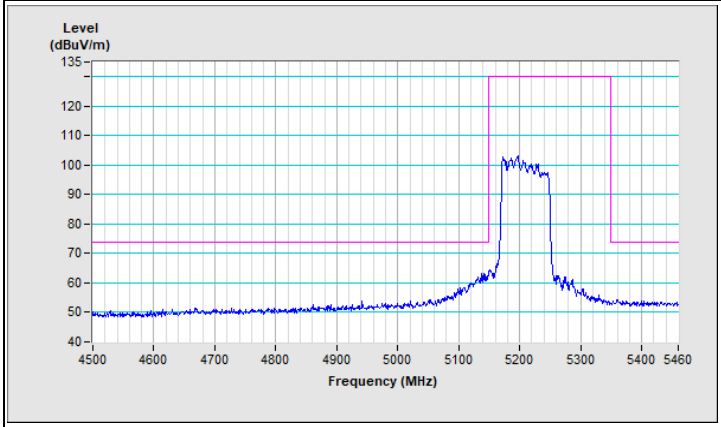


Horizontal (Peak)

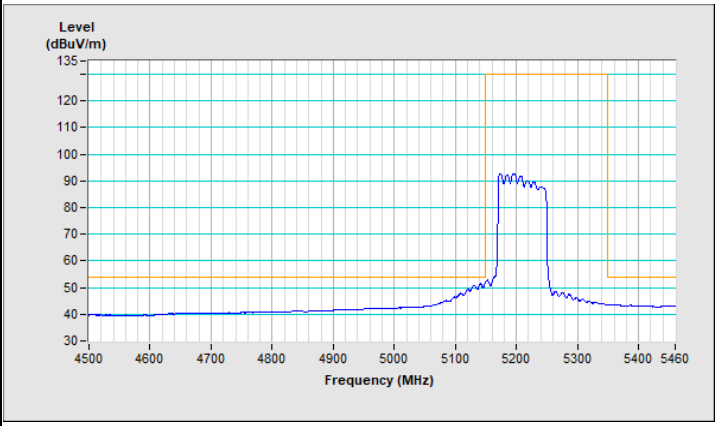


Vertical (Peak)

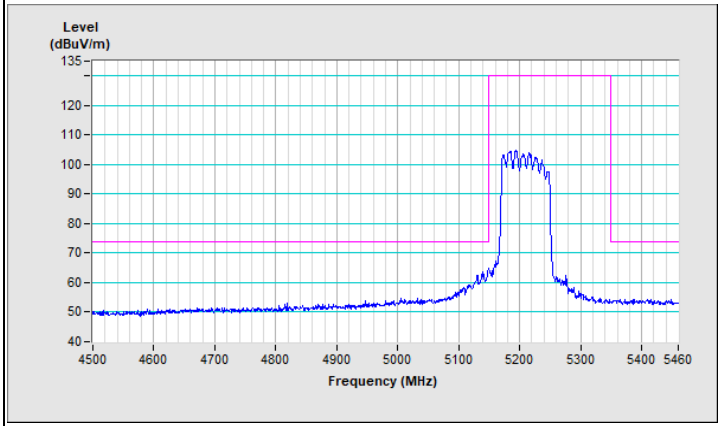
802.11ax (HE80) Channel 42



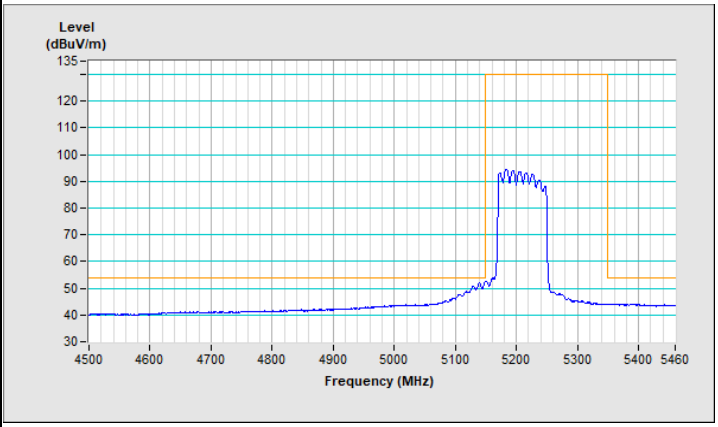
Horizontal (Peak)



Horizontal (Average)

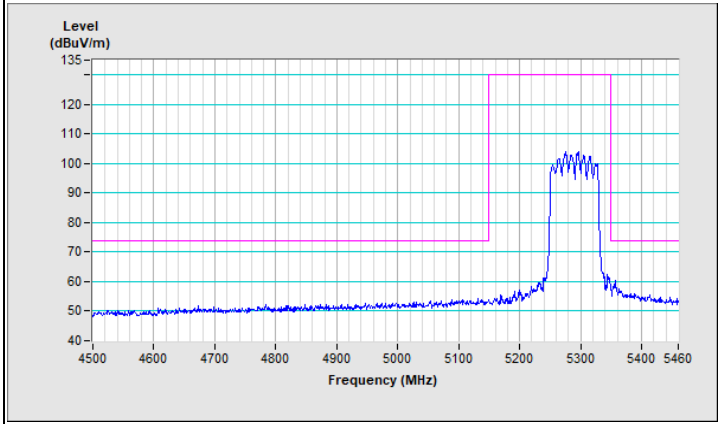


Vertical (Peak)

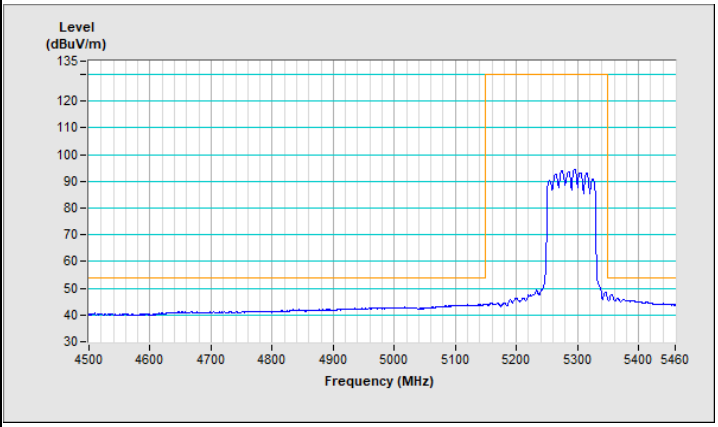


Vertical (Average)

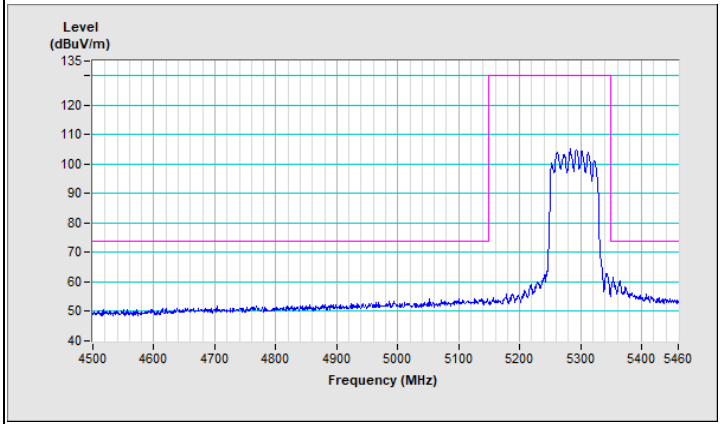
802.11ax (HE80) Channel 58



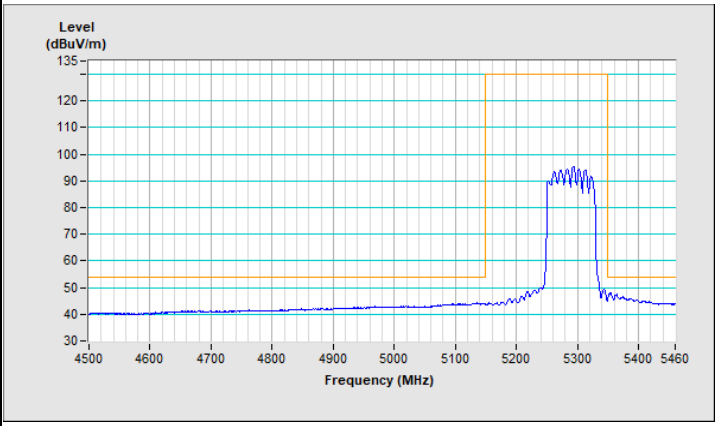
Horizontal (Peak)



Horizontal (Average)

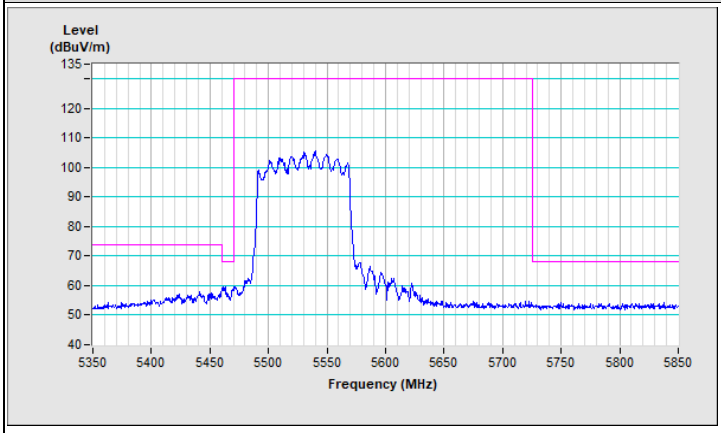


Vertical (Peak)

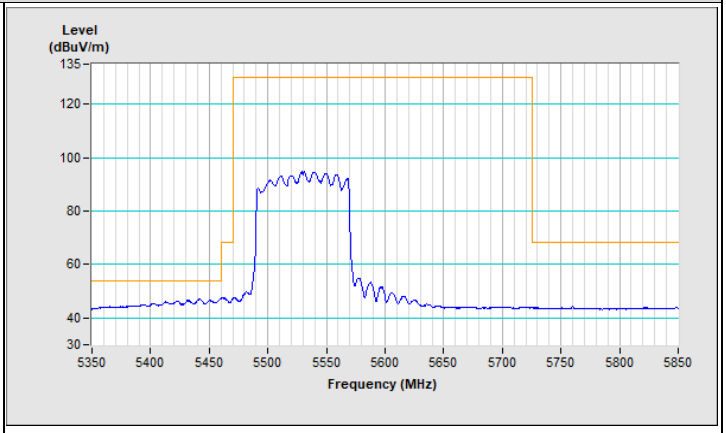


Vertical (Average)

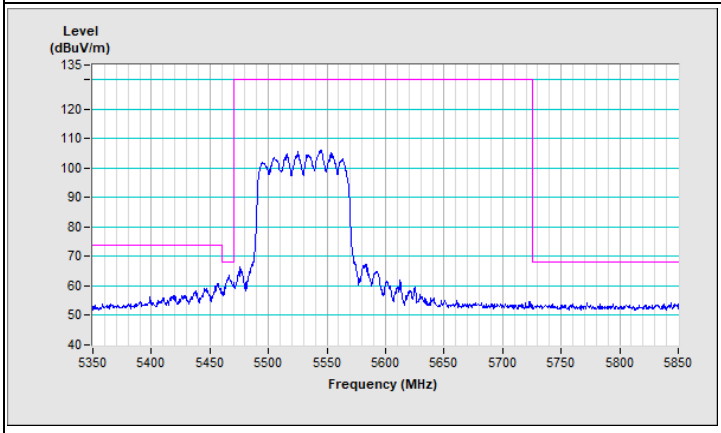
802.11ax (HE80) Channel 106



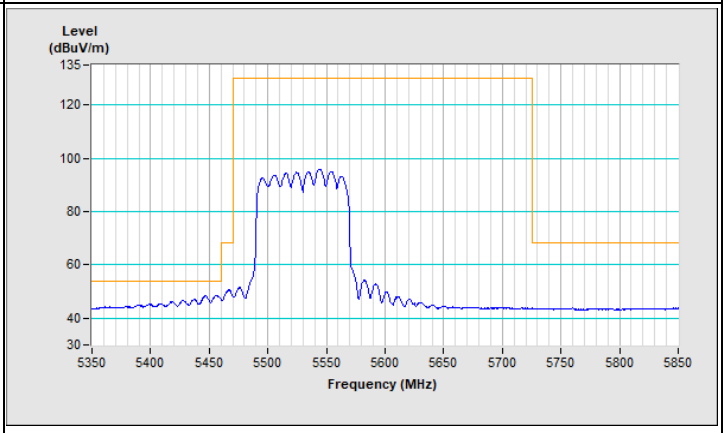
Horizontal (Peak)



Horizontal (Average)

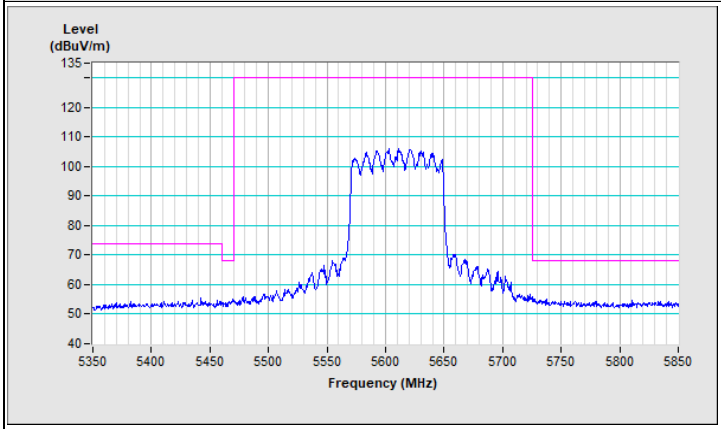


Vertical (Peak)

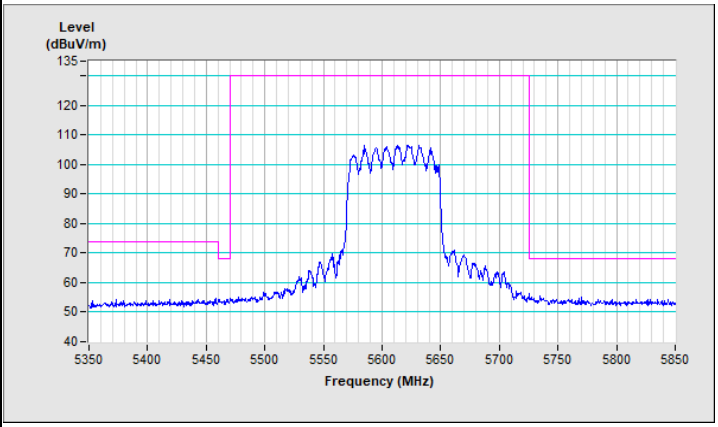


Vertical (Average)

802.11ax (HE80) Channel 122

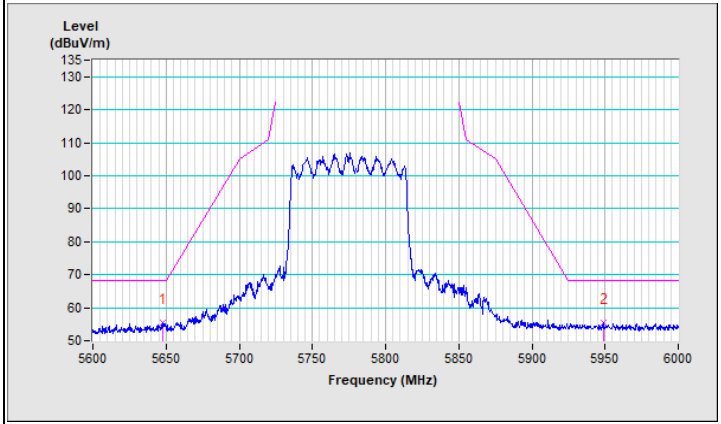


Horizontal (Peak)

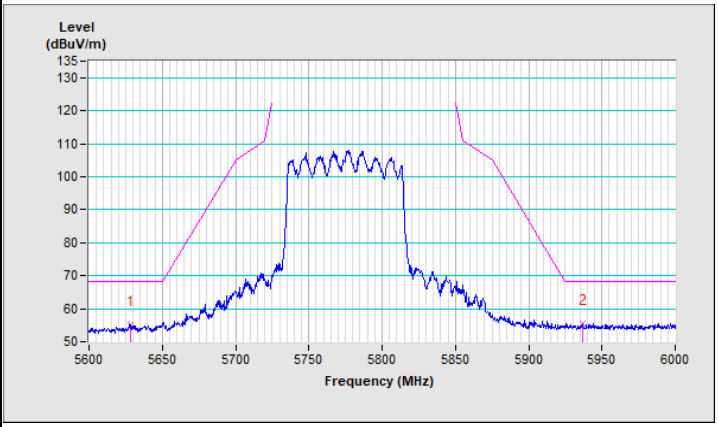


Vertical (Peak)

802.11ax (HE80) Channel 155



Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com
Web Site: http://ee.bureauveritas.com.tw

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

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