TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIU-WTW-P23010256-1

FCC ID: 2AUS4-NFH1

Product: Video conferencing device

Brand: neat.

Model No.: NF-H1

Received Date: 2023/1/11

Test Date: 2023/1/17 ~ 2023/5/18

Issued Date: 2023/7/4

Applicant: Neatframe Limited

Address: Cannon Green 27 Bush Lane, London, EC4R0AA, UK

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:** 2023/7/4

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-P23010256-1	Original release.	2023/7/4

1 Certificate

Product:	Video conferencing device
Brand:	neat.
Test Model:	NF-H1
Sample Status:	Engineering sample
Applicant:	Neatframe Limited
Test Date:	2023/1/17 ~ 2023/5/18
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 -11.34 dB at 23.92347 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.2 dB at 113.66 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 -0.5 dB at 11160.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
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 device
Brand	neat.
Test Model	NF-H1
Status of EUT	Engineering sample
Power Supply Rating	AC I/P: 100-240Vac, 50/60Hz
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 ~ 5.24 GHz, 5.26 ~ 5.32 GHz, 5.5 ~ 5.7 GHz, 5.745 ~ 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 : 71.211 mW (18.53 dBm) 5.26 GHz ~ 5.32 GHz : 69.438 mW (18.42 dBm) 5.5 GHz ~ 5.7 GHz : 63.783 mW (18.05 dBm) 5.745 GHz ~ 5.825 GHz : 69.082 mW (18.39 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Neat Pen	neat.	NF-H2	-
LAN Cable	-	-	Shielded 5m
Power cord	-	-	Non-shielded 3m

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 doesn’t support Partial RU mode.
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.

Antenna No.	Gain (dBi)		Antenna Type	Connector Type
	Max.	Min.		
1	3.17	-3.03	PCB Dipole	ipex(MHF)
2	3.36	-2.10	PCB Dipole	ipex(MHF)

* 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 same as the 802.11ax mode 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

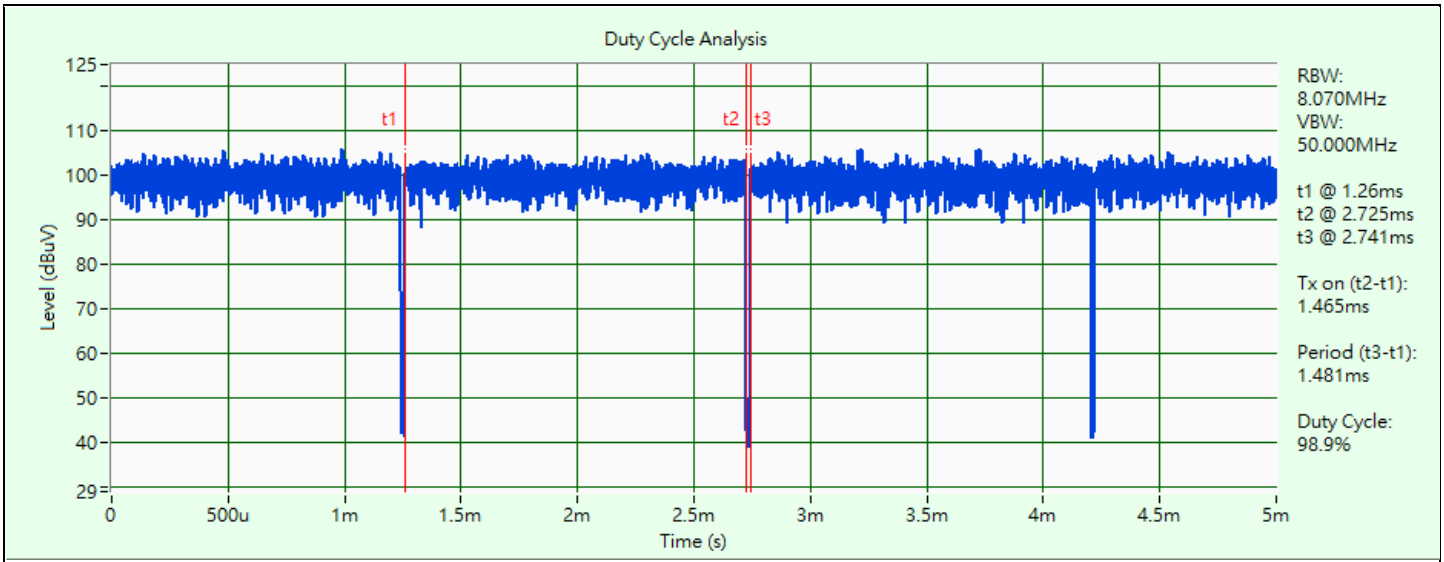
Following channel(s) was (were) selected for the final test as listed below:

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

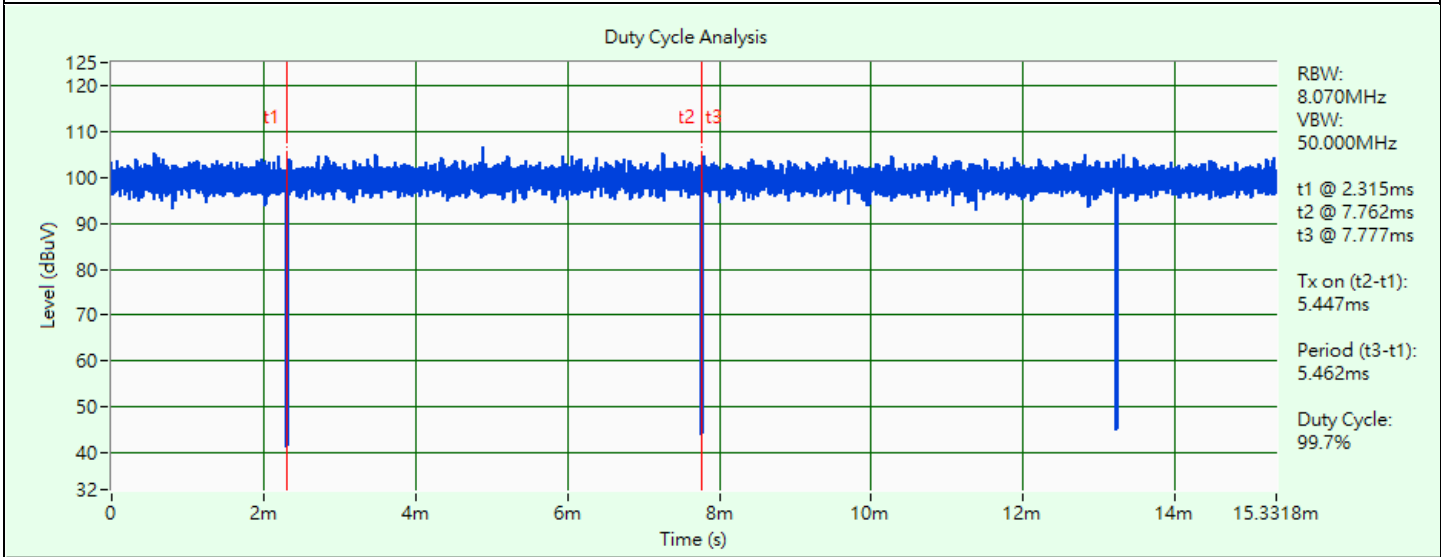
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134,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

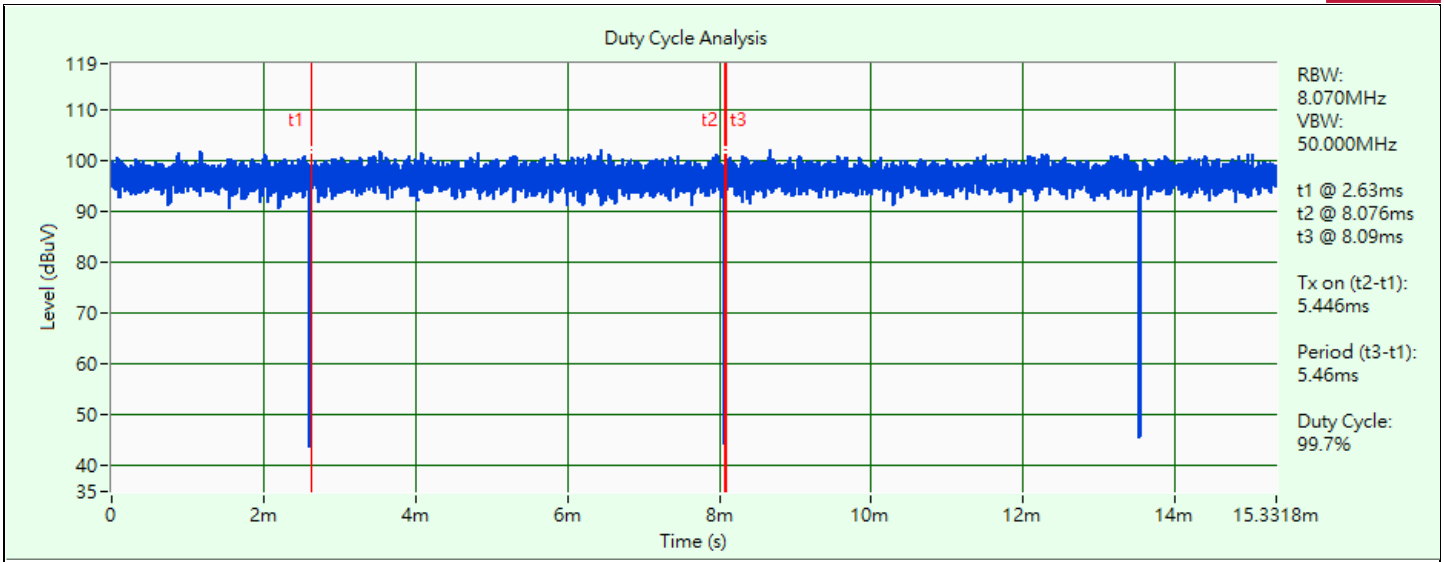
802.11a: Duty cycle = 1.465 ms / 1.481 ms x 100% = 98.9%
802.11ax (HE20): Duty cycle = 5.447 ms / 5.462 ms x 100% = 99.7%
802.11ax (HE40): Duty cycle = 5.446 ms / 5.46 ms x 100% = 99.7%
802.11ax (HE80): Duty cycle = 5.446 ms / 5.459 ms x 100% = 99.8%



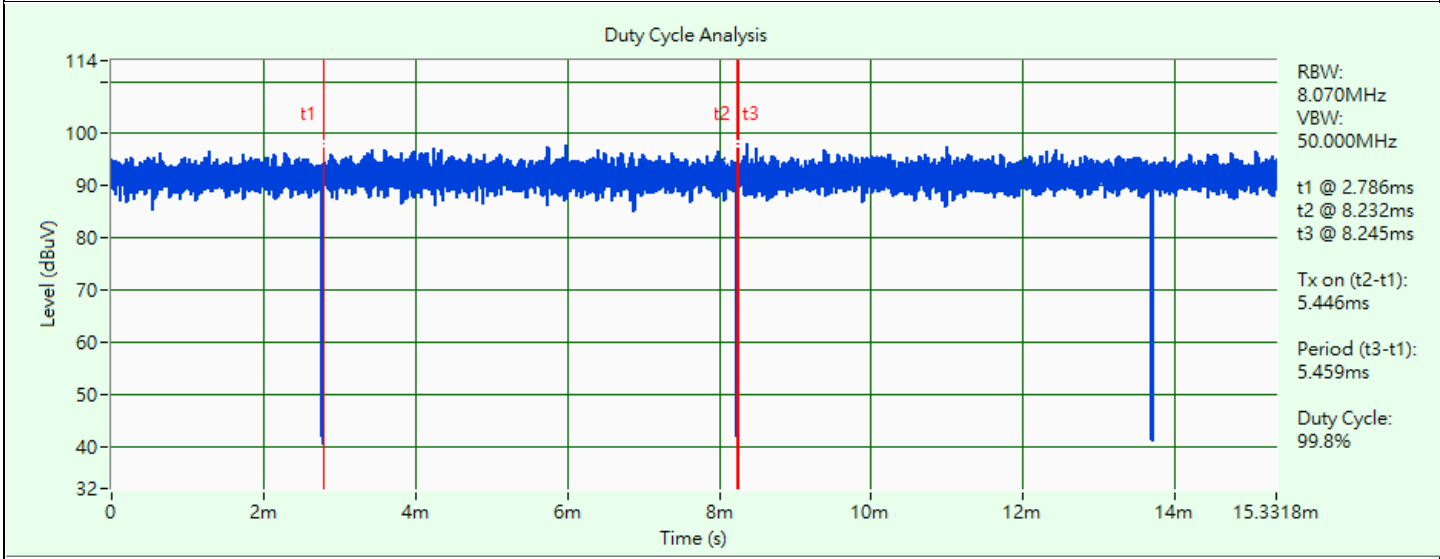
802.11a



802.11ax (HE20)



802.11ax (HE40)

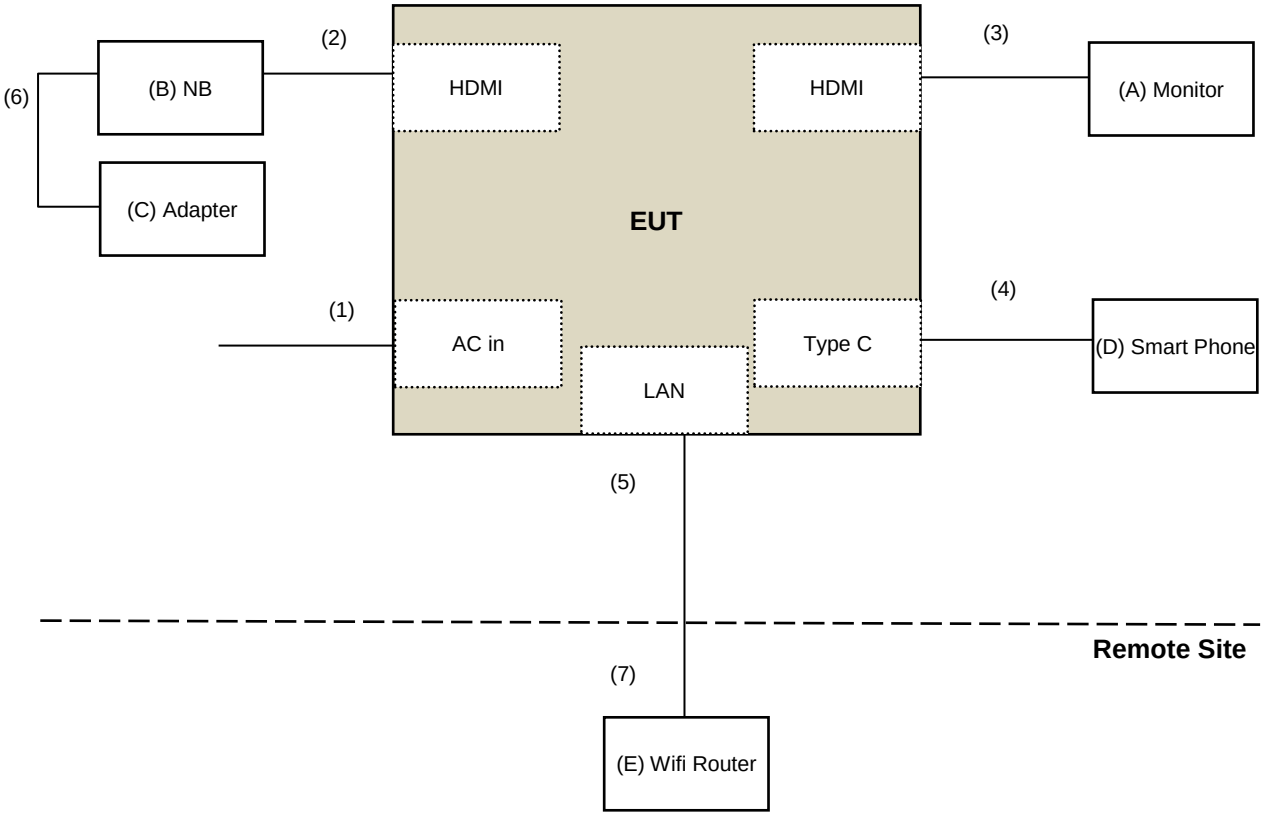


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT 4.0.204.0) 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	Monitor	ASUS	PA279CV	M7LMTF235956	DoC	Provided by Lab
B	NB	LENOVO	IdeaPad 5 15ITL05	N/A	N/A	Provided by Lab
C	Adapter	LENOVO	ADLX65CLGU2A	N/A	N/A	Provided by Lab
D	Smart Phone	Samsung	Galaxy A50	N/A	N/A	Provided by Lab
E	Wifi Router	NETGEAR	R6350	58E798B00017E	DoC	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Power Cable	1	3	N	0	Supplied by applicant
2	HDMI Cable	1	2	Y	0	Provided by Lab
3	HDMI Cable	1	2	Y	0	Provided by Lab
4	Type-C Cable	1	1	Y	0	Provided by Lab
5	LAN Cable	1	5	Y	0	Supplied by applicant
6	DC Cable	1	1.8	Y	0	Provided by Lab
7	LAN Cable	1	10	N	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 Power measurement 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	2023/5/5	2024/5/4
Pulse Power Sensor Anritsu	MA2411B	0738404	2023/5/5	2024/5/4
Signal Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13
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: 2023/5/5

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
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	2023/5/2	2024/5/1
EMI Test Receiver R&S	ESR3	102412	2022/12/21	2023/12/20
Fixed Attenuator STI	STI02-2200-10	NO.4	2022/9/2	2023/9/1
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	8121-00759	2022/8/18	2023/8/17
		8121-731	2022/5/26	2023/5/25
	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

Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2023/5/18

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
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		MY51210137	2022/6/9	2023/6/8
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
Signal Analyzer R&S	FSV40	101544	2023/5/9	2024/5/8
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. * The 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: 2023/5/18

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
MXE EMI Receiver Agilent	N9038A	MY51210129	2022/4/8	2023/4/7
		MY51210137	2022/6/9	2023/6/8
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	2022/9/20	2023/9/19
		190804	2022/9/20	2023/9/19
RF Coaxial Cable HUBER SUHNER	SF-104	Cable-CH6-01	2022/9/20	2023/9/19
Signal Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
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
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 test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/1/17 ~ 2023/1/19

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.		

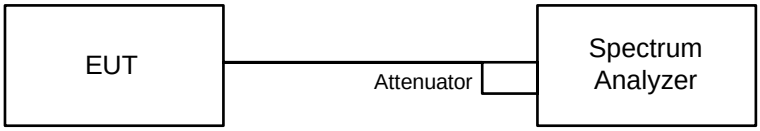
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ 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

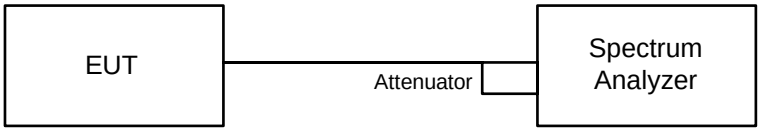
6.2.1 Test Setup

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

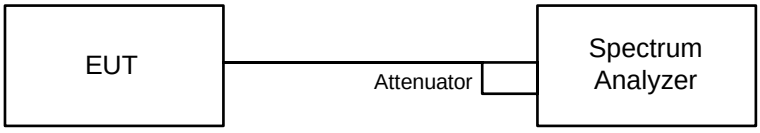
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 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

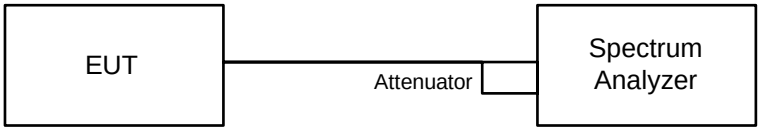


6.4.2 Test Procedure

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

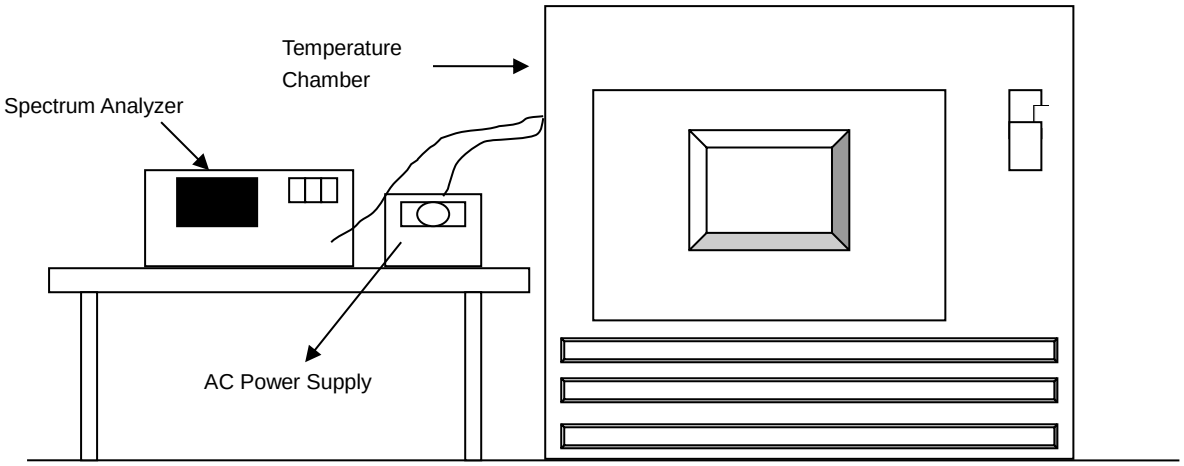


6.5.2 Test Procedure

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

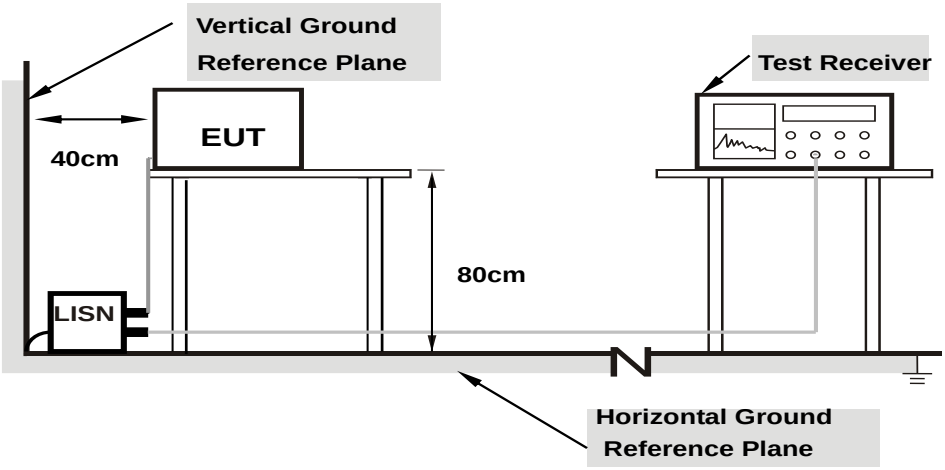


6.6.2 Test Procedure

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.

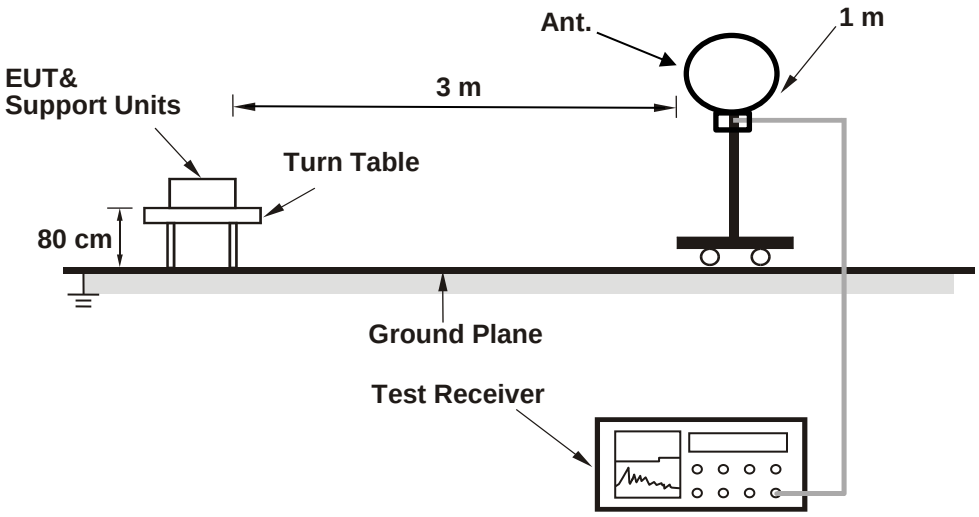
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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.

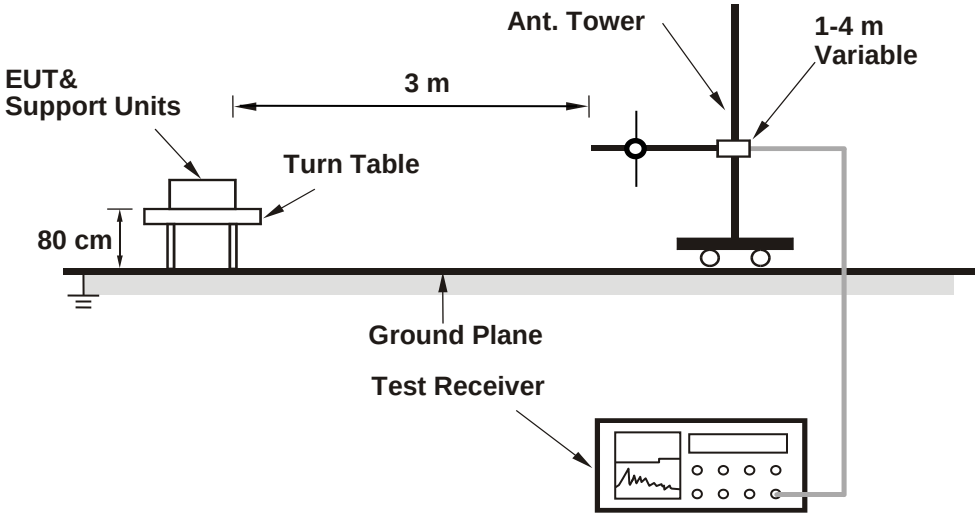
6.8 Unwanted Emissions below 1 GHz

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.

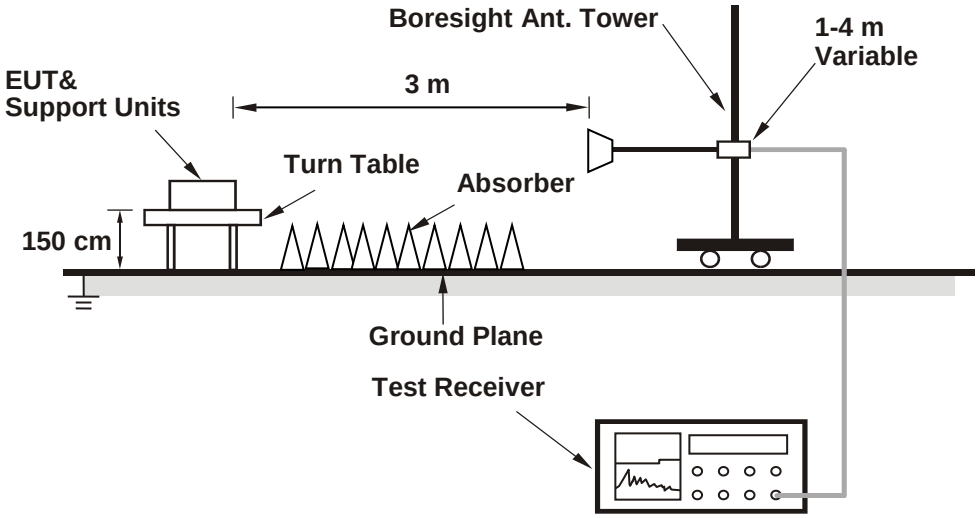
e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 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:	Waydi Tuan

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.09	19.51
60	5300	19.24	19.37
64	5320	19.17	19.34
100	5500	19.21	19.44
116	5580	19.32	19.36
140	5700	19.34	19.25

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.09	23.8	<	24
60	5300	19.24	23.84	<	24
64	5320	19.17	23.82	<	24
100	5500	19.21	23.83	<	24
116	5580	19.32	23.86	<	24
140	5700	19.25	23.84	<	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	21.19	21.05
60	5300	20.99	20.90
64	5320	21.10	21.07
100	5500	21.17	21.06
116	5580	21.22	21.00
140	5700	21.00	21.04

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.05	24.23	>	24
60	5300	20.90	24.2	>	24
64	5320	21.07	24.23	>	24
100	5500	21.06	24.23	>	24
116	5580	21.00	24.22	>	24
140	5700	21.00	24.22	>	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	41.85	41.56
62	5310	41.53	41.81
102	5510	41.57	41.66
110	5550	41.91	41.62
134	5670	41.70	41.72

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	41.56	27.18	>	24
62	5310	41.53	27.18	>	24
102	5510	41.57	27.18	>	24
110	5550	41.62	27.19	>	24
134	5670	41.70	27.2	>	24

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

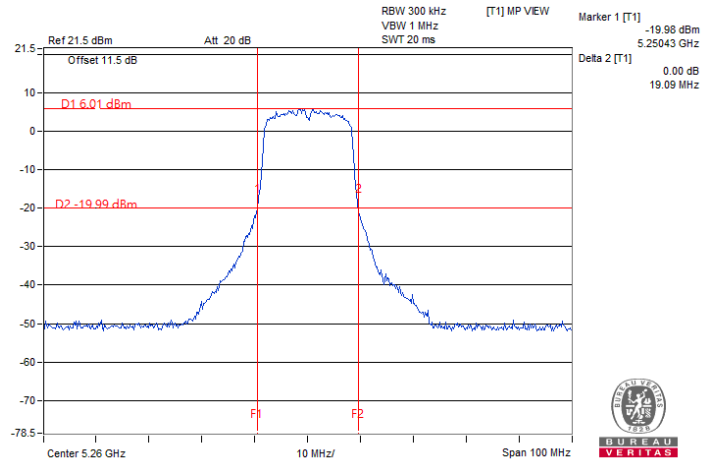
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.19	83.19
106	5530	83.27	83.35
122	5610	83.24	83.59

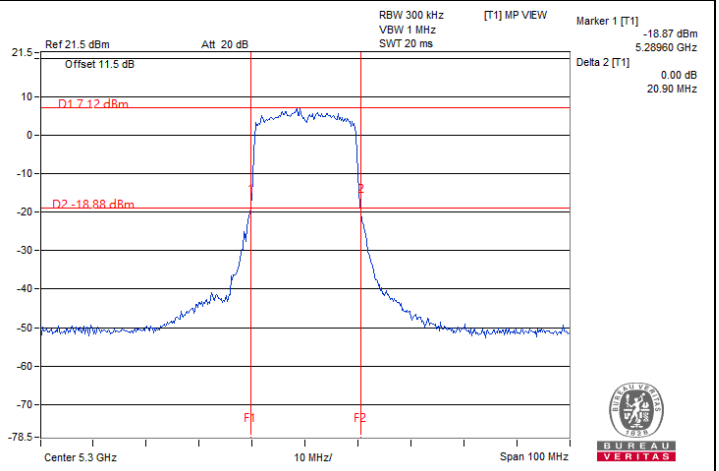
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	83.19	30.2	>	24
106	5530	83.27	30.2	>	24
122	5610	83.24	30.2	>	24

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

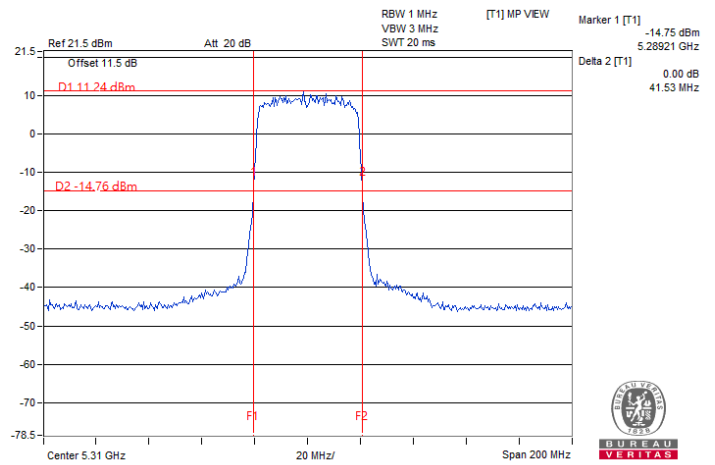
Spectrum Plot of Minimum Value



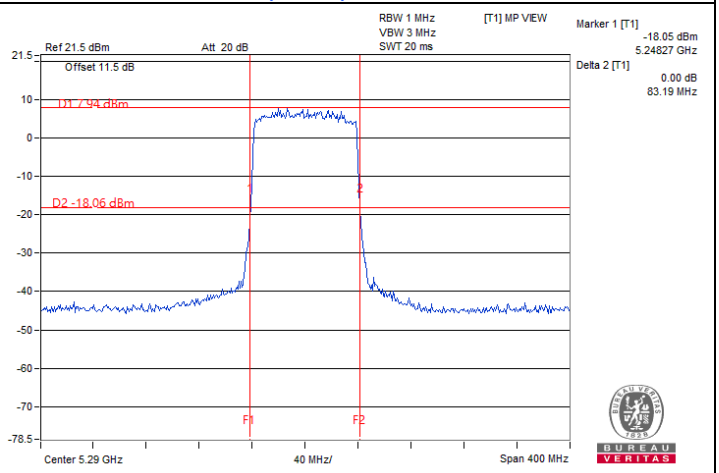
802.11a / Chain 0 : CH 52



802.11ax (HE20) / Chain 1 : CH 60



802.11ax (HE40) / Chain 0 : CH 62



802.11ax (HE80) / Chain 0 : CH 58

7.2 RF Output Power

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

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	14.14	14.35	53.169	17.26	24	Pass
40	5200	14.19	14.41	53.848	17.31	24	Pass
48	5240	14.05	14.21	51.773	17.14	24	Pass
52	5260	15.18	15.42	67.795	18.31	23.8	Pass
60	5300	15.23	14.83	63.751	18.04	23.84	Pass
64	5320	15.24	14.61	62.326	17.95	23.82	Pass
100	5500	13.55	12.68	41.182	16.15	23.83	Pass
116	5580	15.23	14.71	62.923	17.99	23.86	Pass
140	5700	15.37	14.66	63.677	18.04	23.84	Pass
149	5745	15.31	14.91	64.937	18.12	30	Pass
157	5785	15.15	15.07	64.871	18.12	30	Pass
165	5825	15.54	15.11	68.244	18.34	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	15.38	15.30	68.399	18.35	24	Pass
40	5200	15.27	15.36	68.007	18.33	24	Pass
48	5240	14.80	15.21	63.389	18.02	24	Pass
52	5260	15.01	15.21	64.885	18.12	24	Pass
60	5300	15.20	14.79	63.243	18.01	24	Pass
64	5320	15.09	14.54	60.73	17.83	24	Pass
100	5500	15.15	14.03	58.027	17.64	24	Pass
116	5580	15.29	14.33	60.908	17.85	24	Pass
140	5700	15.26	14.11	59.337	17.73	24	Pass
149	5745	14.95	14.63	60.301	17.80	30	Pass
157	5785	15.24	14.72	63.068	18.00	30	Pass
165	5825	15.30	14.73	63.601	18.03	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	15.16	14.91	63.784	18.05	24	Pass
46	5230	15.02	15.12	64.277	18.08	24	Pass
54	5270	15.24	14.86	64.039	18.06	24	Pass
62	5310	14.98	14.18	57.659	17.61	24	Pass
102	5510	15.01	13.58	54.499	17.36	24	Pass
110	5550	15.06	13.87	56.441	17.52	24	Pass
134	5670	15.12	13.87	56.887	17.55	24	Pass
151	5755	15.36	14.92	65.401	18.16	30	Pass
159	5795	14.87	14.98	62.168	17.94	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	14.90	15.26	64.477	18.09	24	Pass
58	5290	15.29	15.10	66.166	18.21	24	Pass
106	5530	15.04	13.73	55.52	17.44	24	Pass
122	5610	15.20	14.08	58.699	17.69	24	Pass
155	5775	15.36	14.98	65.833	18.18	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	15.55	15.48	71.211	18.53	24	Pass
40	5200	15.52	15.51	71.208	18.53	24	Pass
48	5240	15.04	15.46	67.071	18.27	24	Pass
52	5260	15.24	15.43	68.334	18.35	24	Pass
60	5300	15.38	15.04	66.43	18.22	24	Pass
64	5320	15.32	14.77	64.032	18.06	24	Pass
100	5500	15.35	14.23	60.762	17.84	24	Pass
116	5580	15.45	14.58	63.783	18.05	24	Pass
140	5700	15.41	14.35	61.981	17.92	24	Pass
149	5745	15.12	14.81	62.778	17.98	30	Pass
157	5785	15.43	14.91	65.888	18.19	30	Pass
165	5825	15.47	14.96	66.57	18.23	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	15.39	15.12	67.103	18.27	24	Pass
46	5230	15.19	15.33	67.156	18.27	24	Pass
54	5270	15.43	15.09	67.199	18.27	24	Pass
62	5310	15.19	14.42	60.706	17.83	24	Pass
102	5510	15.21	13.77	57.013	17.56	24	Pass
110	5550	15.29	14.11	59.57	17.75	24	Pass
134	5670	15.27	14.06	59.119	17.72	24	Pass
151	5755	15.55	15.14	68.551	18.36	30	Pass
159	5795	15.04	15.14	64.574	18.10	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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	15.11	15.42	67.268	18.28	24	Pass
58	5290	15.48	15.33	69.438	18.42	24	Pass
106	5530	15.29	13.94	58.581	17.68	24	Pass
122	5610	15.39	14.31	61.571	17.89	24	Pass
155	5775	15.55	15.21	69.082	18.39	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.36 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 3.36 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:	Waydi Tuan

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	0.18	0.40	3.30	10.72	Pass
40	5200	0.09	0.54	3.33	10.72	Pass
48	5240	-0.23	0.23	3.02	10.72	Pass
52	5260	1.06	1.19	4.14	10.72	Pass
60	5300	1.04	0.53	3.80	10.72	Pass
64	5320	0.91	0.24	3.60	10.72	Pass
100	5500	-0.64	-1.74	1.86	10.72	Pass
116	5580	1.32	0.62	3.99	10.72	Pass
140	5700	0.92	-0.30	3.36	10.72	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 6.28 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 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	0.77	0.52	3.66	10.72	Pass
40	5200	0.66	0.60	3.64	10.72	Pass
48	5240	0.18	0.59	3.40	10.72	Pass
52	5260	0.30	0.53	3.43	10.72	Pass
60	5300	0.25	-0.12	3.08	10.72	Pass
64	5320	0.16	-0.47	2.87	10.72	Pass
100	5500	0.64	-0.71	3.03	10.72	Pass
116	5580	0.69	-0.19	3.28	10.72	Pass
140	5700	0.26	-0.99	2.69	10.72	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 6.28 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 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	-2.12	-2.39	0.76	10.72	Pass
46	5230	-2.57	-2.33	0.56	10.72	Pass
54	5270	-2.51	-2.70	0.41	10.72	Pass
62	5310	-2.71	-3.54	-0.09	10.72	Pass
102	5510	-2.22	-3.89	0.04	10.72	Pass
110	5550	-2.10	-3.43	0.30	10.72	Pass
134	5670	-2.11	-3.93	0.08	10.72	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 6.28 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 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	-5.48	-5.22	-2.34	10.72	Pass
58	5290	-5.26	-5.51	-2.37	10.72	Pass
106	5530	-5.35	-6.60	-2.92	10.72	Pass
122	5610	-5.26	-6.37	-2.77	10.72	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 6.28 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
4. For U-NII-2A, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 dBm/MHz.
5. For U-NII-2C, the directional gain is 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.28-6) = 10.72 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	-7.77	-5.55	3.01	-2.54	29.72	Pass
	157	5785	-7.7	-5.48	3.01	-2.47	29.72	Pass
	165	5825	-7.39	-5.17	3.01	-2.16	29.72	Pass
Chain 1	149	5745	-8.37	-6.15	3.01	-3.14	29.72	Pass
	157	5785	-8.24	-6.02	3.01	-3.01	29.72	Pass
	165	5825	-8.36	-6.14	3.01	-3.13	29.72	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 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.28-6) = 29.72 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	-9.34	-7.12	3.01	-4.11	29.72	Pass
	157	5785	-9.33	-7.11	3.01	-4.1	29.72	Pass
	165	5825	-8.9	-6.68	3.01	-3.67	29.72	Pass
Chain 1	149	5745	-10.05	-7.83	3.01	-4.82	29.72	Pass
	157	5785	-9.77	-7.55	3.01	-4.54	29.72	Pass
	165	5825	-9.78	-7.56	3.01	-4.55	29.72	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 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.28-6) = 29.72 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	-11.72	-9.5	3.01	-6.49	29.72	Pass
	159	5795	-11.6	-9.38	3.01	-6.37	29.72	Pass
Chain 1	151	5755	-12.57	-10.35	3.01	-7.34	29.72	Pass
	159	5795	-12.48	-10.26	3.01	-7.25	29.72	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 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.28-6) = 29.72 dBm/500kHz.

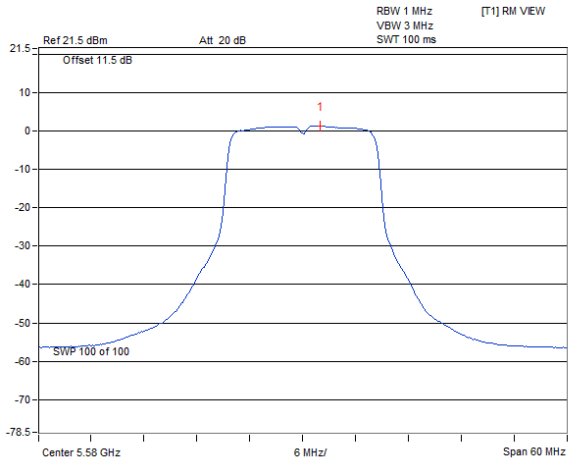
802.11ax (HE80)

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	-14.88	-12.66	3.01	-9.65	29.72	Pass
Chain 1	155	5775	-15.56	-13.34	3.01	-10.33	29.72	Pass

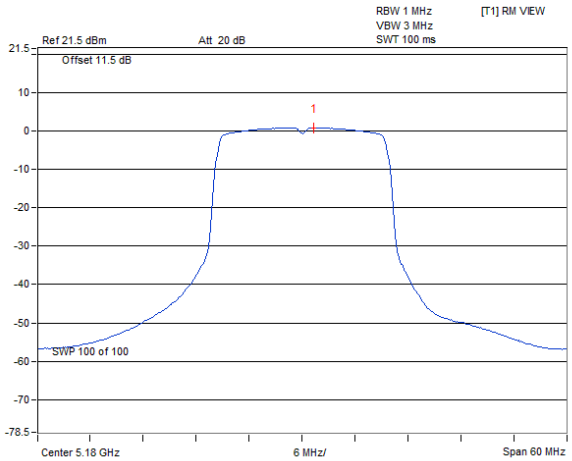
Notes:

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 6.28 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.28-6) = 29.72 dBm/500kHz.

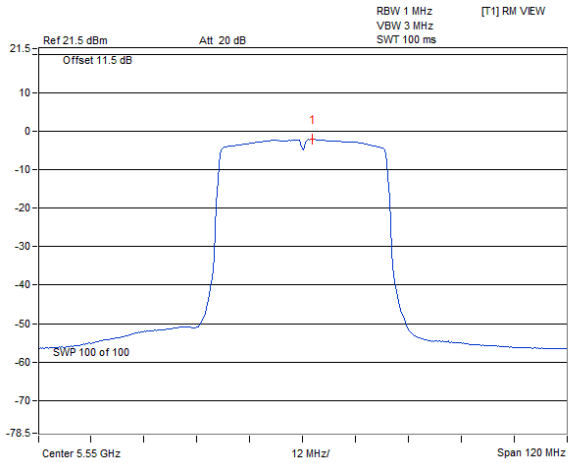
Spectrum Plot of Maximum Value



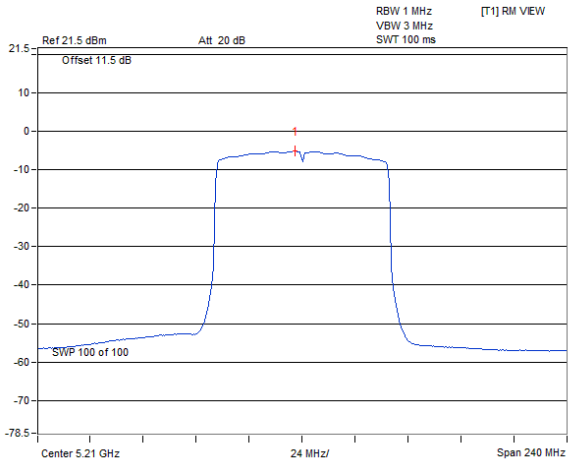
802.11a / Chain 0 : CH 116



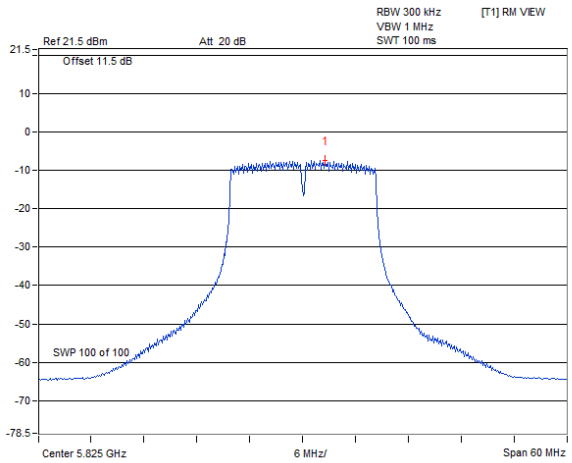
802.11ax (HE20) / Chain 0 : CH 36



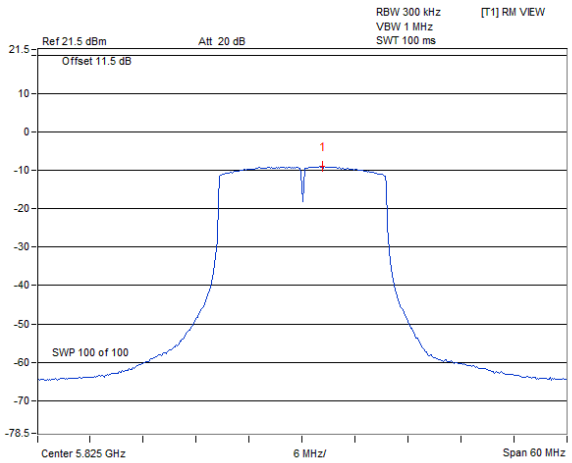
802.11ax (HE40) / Chain 0 : CH 110



802.11ax (HE80) / Chain 1 : CH 42

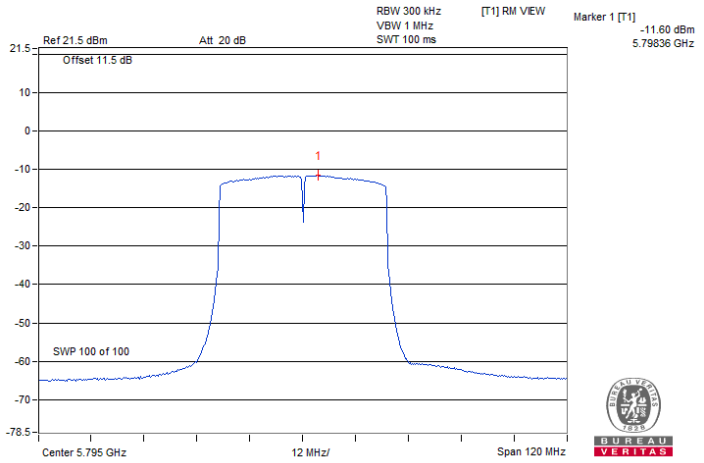


802.11a / Chain 0 : CH 165

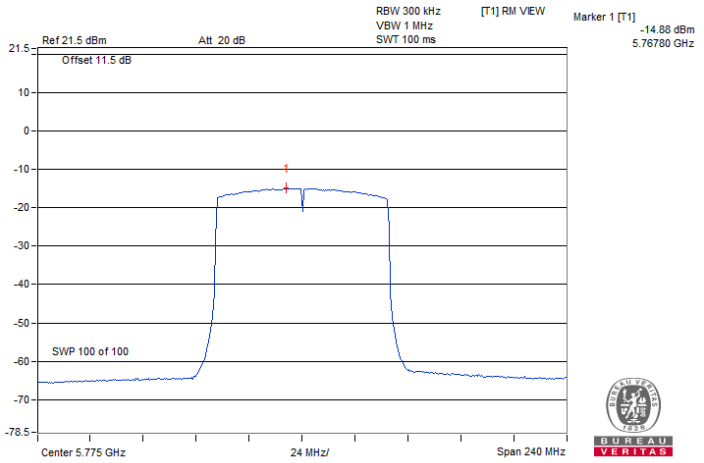


802.11ax (HE20) / Chain 0 : CH 165

Spectrum Plot of Maximum Value



802.11ax (HE40) / Chain 0 : CH 159



802.11ax (HE80) / Chain 0 : CH 155

7.4 6 dB Bandwidth

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

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.36	16.37	0.5	Pass
157	5785	16.36	16.38	0.5	Pass
165	5825	16.36	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	18.63	18.66	0.5	Pass
157	5785	18.54	18.60	0.5	Pass
165	5825	18.69	18.79	0.5	Pass

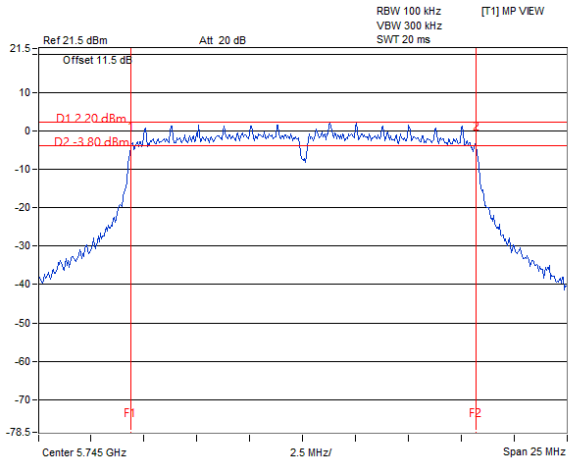
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	37.71	37.38	0.5	Pass
159	5795	37.53	37.58	0.5	Pass

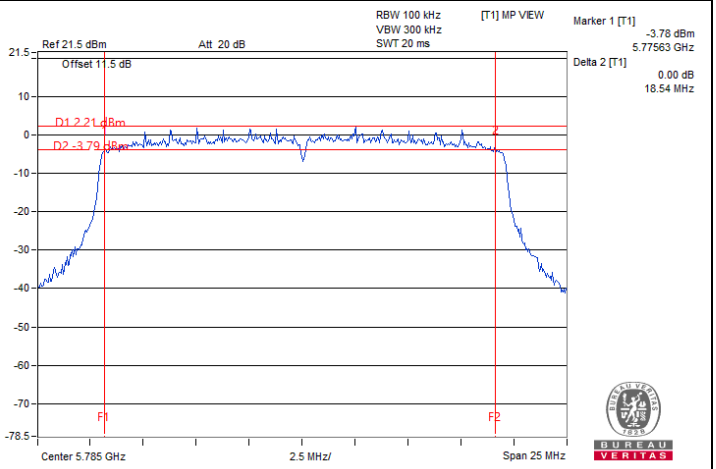
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	77.38	77.31	0.5	Pass

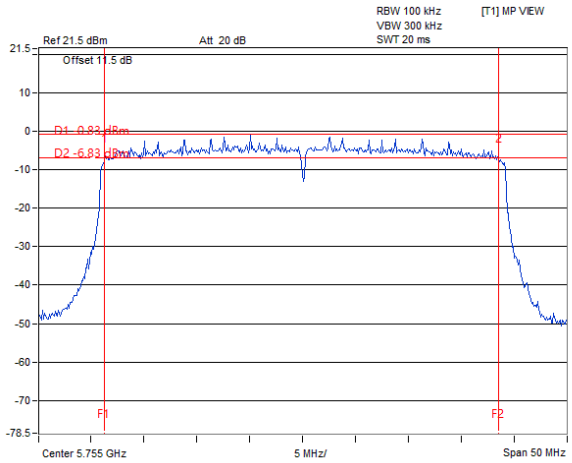
Spectrum Plot of Minimum Value



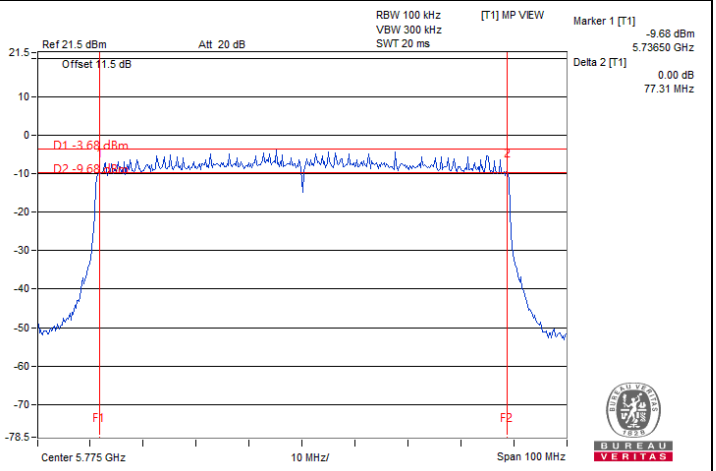
802.11a / Chain 0 : CH 149



802.11ax (HE20) / Chain 0 : CH 157



802.11ax (HE40) / Chain 1 : CH 151



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:	Waydi Tuan

802.11a

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

802.11ax (HE20)

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

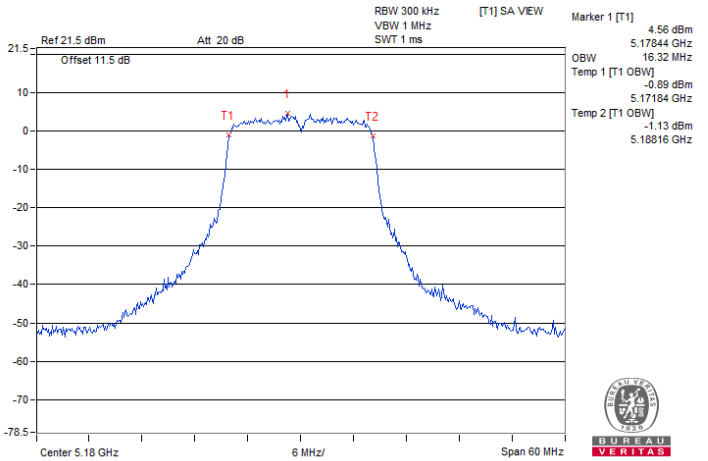
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.80
46	5230	37.92	37.92
54	5270	37.92	37.92
62	5310	37.92	37.92
102	5510	37.92	37.80
110	5550	37.92	37.92
134	5670	37.92	37.92
151	5755	37.92	37.92
159	5795	37.92	37.92

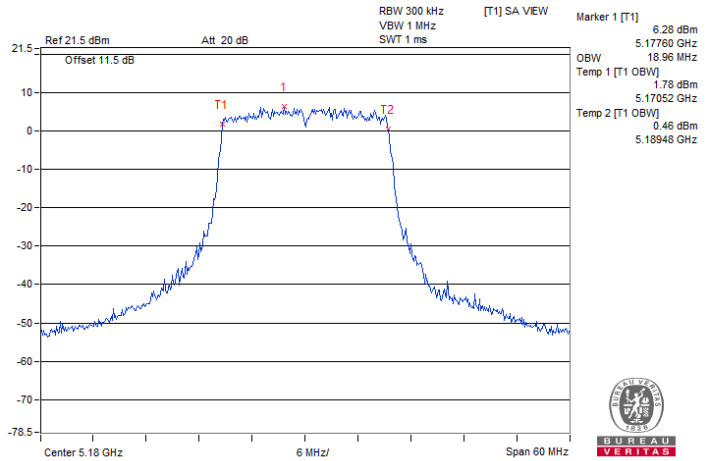
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.52	77.28
106	5530	77.76	77.28
122	5610	77.28	77.28
155	5775	77.22	76.80

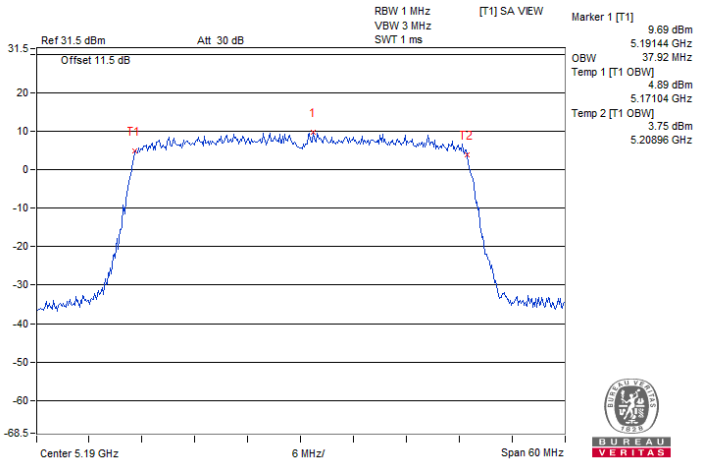
Spectrum Plot of Maximum Value



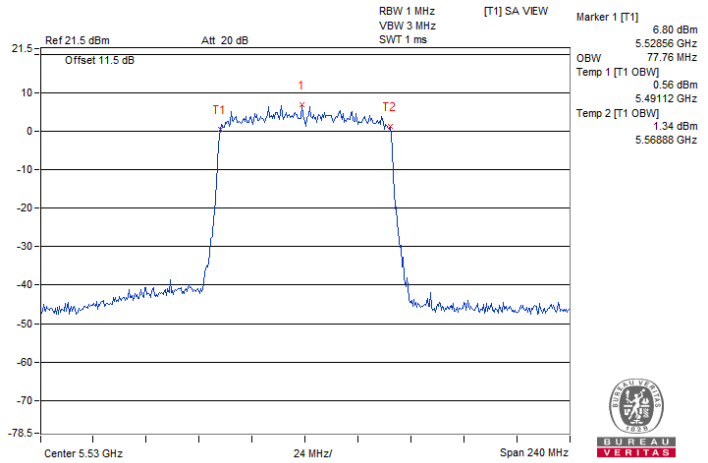
802.11a / Chain 0 : CH 36



802.11ax (HE20) / Chain 0 : CH 36

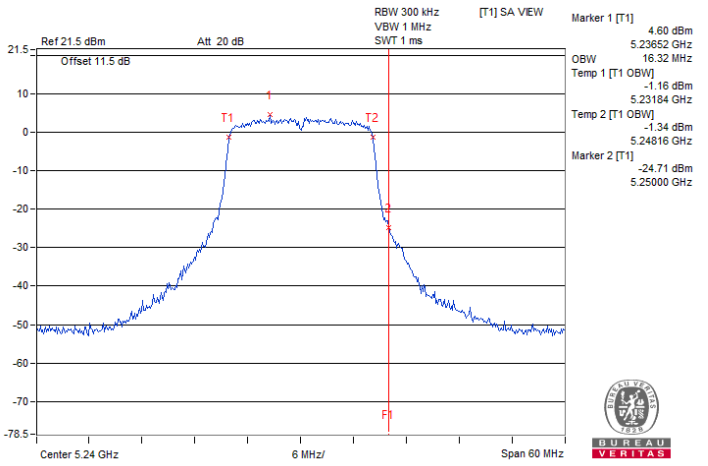


802.11ax (HE40) / Chain 0 : CH 38

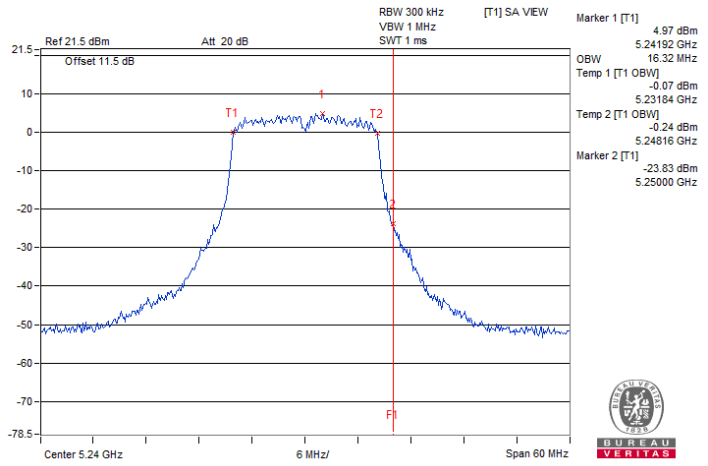


802.11ax (HE80) / Chain 0 : CH 106

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



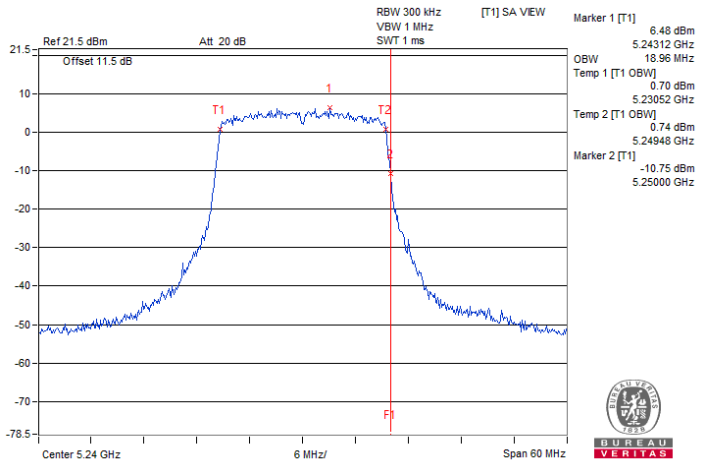
802.11a / Chain 0 : CH 48



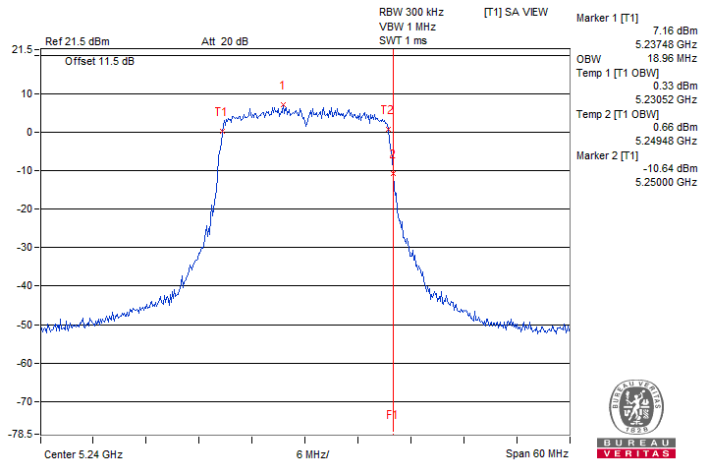
802.11a / Chain 1 : CH 48

Spectrum Plot for nearby DFS band

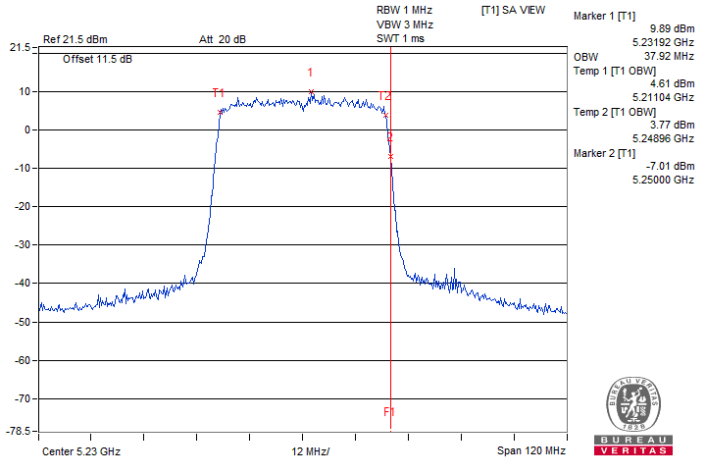
(DFS is required, if 99% OCP straddle into U-NII-2A)



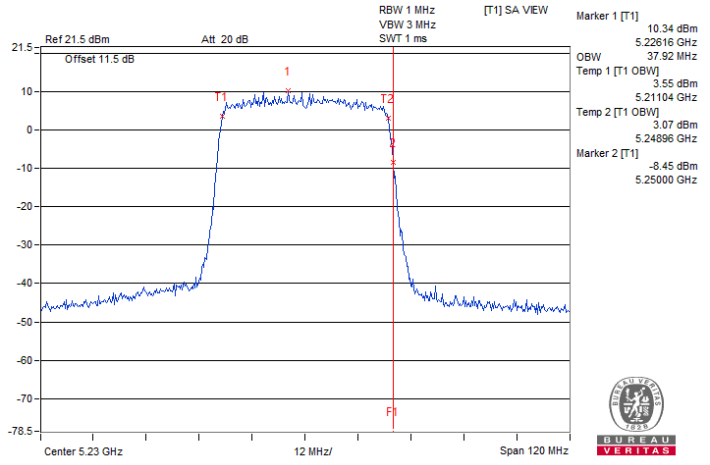
802.11ax (HE20) / Chain 0 : CH 48



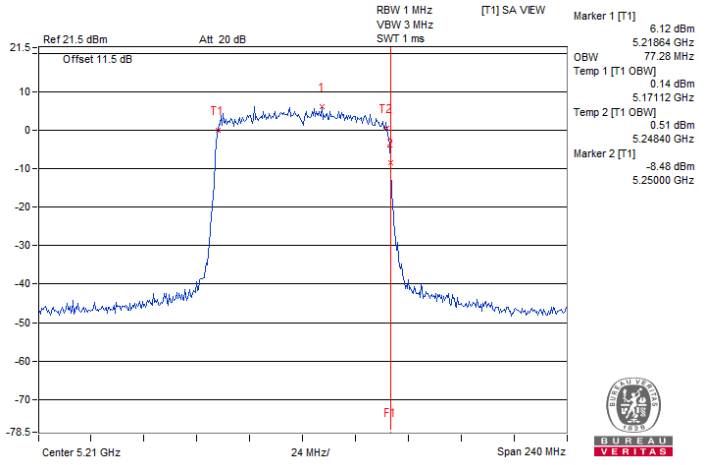
802.11ax (HE20) / Chain 1 : CH 48



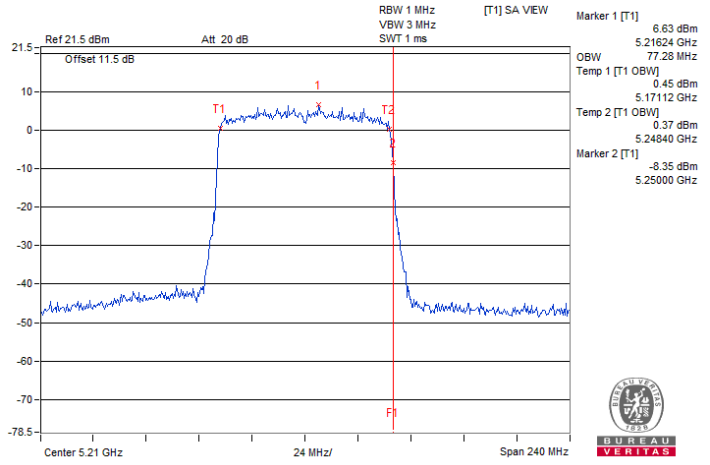
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

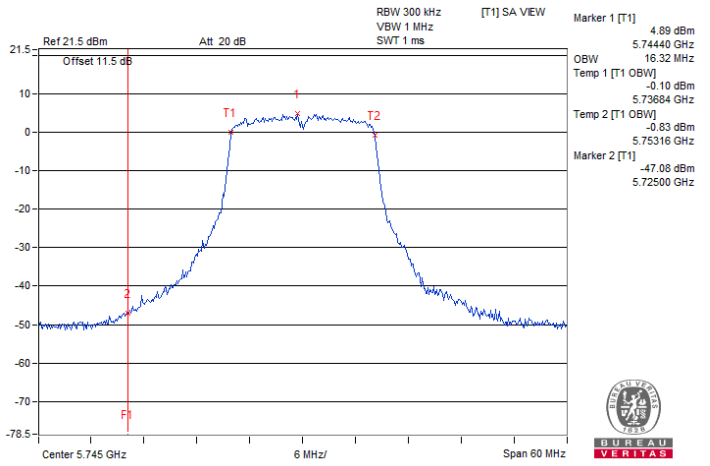


802.11ax (HE80) / Chain 0 : CH 42

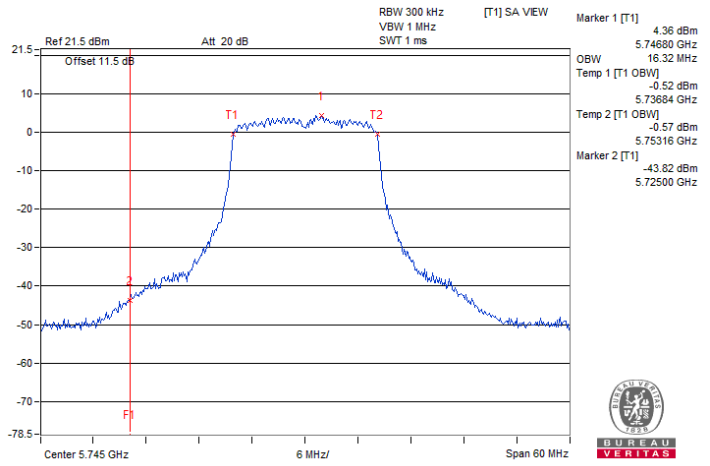


802.11ax (HE80) / Chain 1 : CH 42

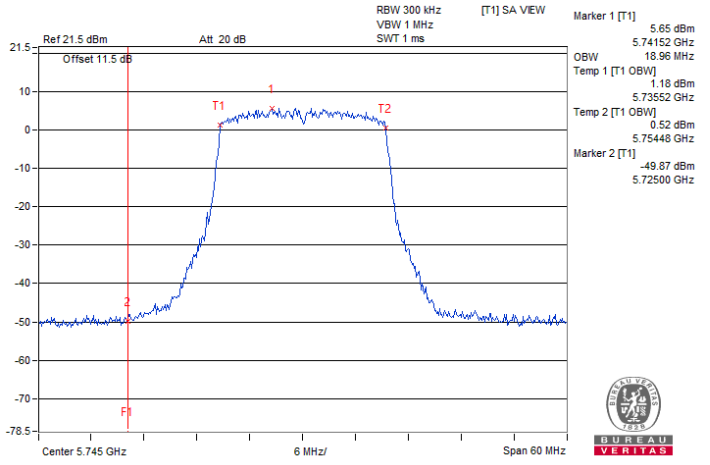
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



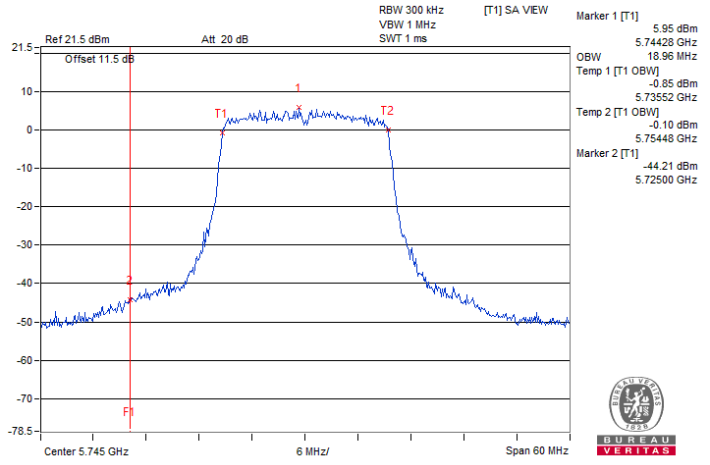
802.11a / Chain 0 : CH 149



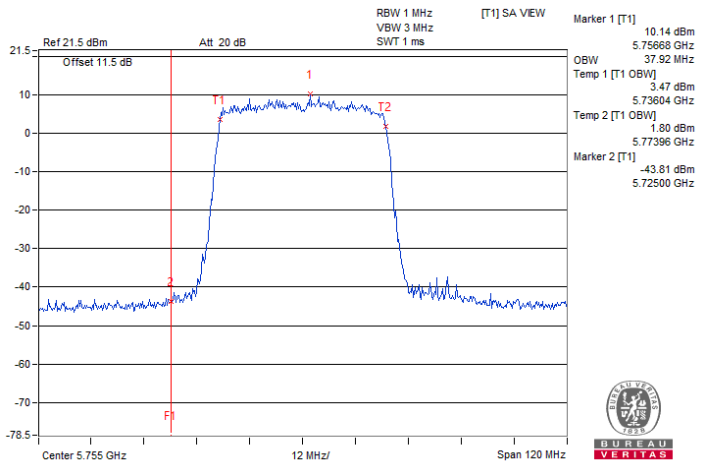
802.11a / Chain 1 : CH 149



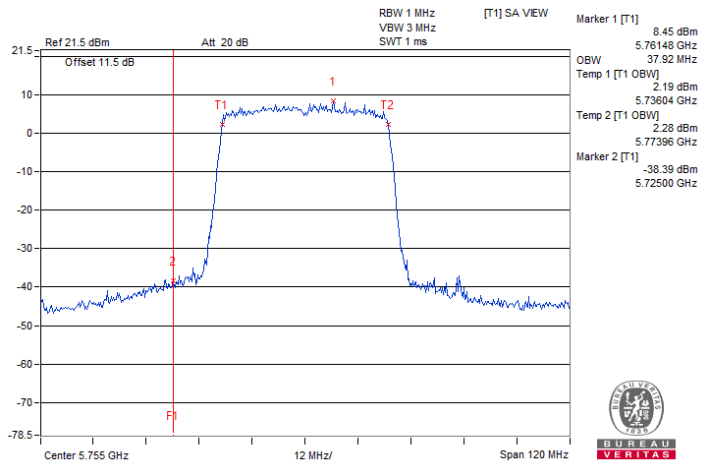
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



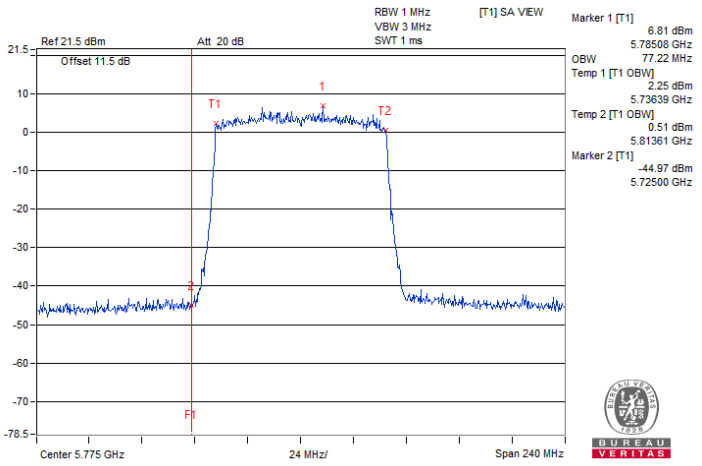
802.11ax (HE40) / Chain 0 : CH 151



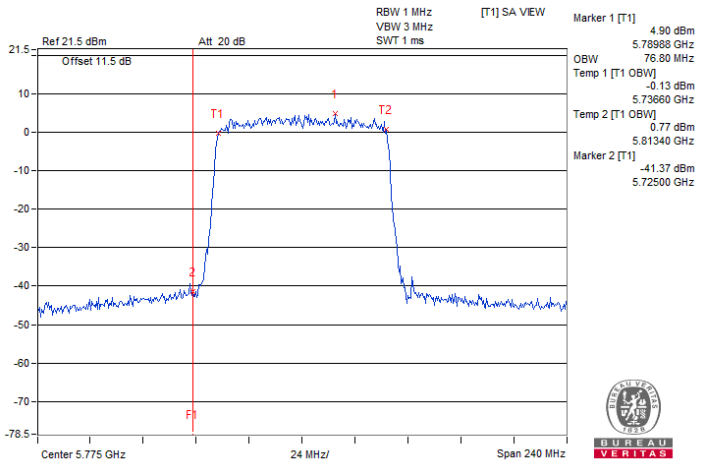
802.11ax (HE40) / Chain 1 : CH 151

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:	Waydi Tuan

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	5180.0102	Pass	5180.006	Pass	5180.0106	Pass	5180.0084	Pass
30	120	5180.0137	Pass	5180.0157	Pass	5180.0177	Pass	5180.0171	Pass
20	120	5180.0039	Pass	5180.0048	Pass	5180.0049	Pass	5180.0047	Pass
10	120	5179.9963	Pass	5179.9956	Pass	5179.9963	Pass	5179.9994	Pass
0	120	5179.9773	Pass	5179.9723	Pass	5179.9727	Pass	5179.973	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	5179.9935	Pass	5179.995	Pass	5179.9943	Pass	5179.9927	Pass
	120	5180.0039	Pass	5180.0048	Pass	5180.0049	Pass	5180.0047	Pass
	102	5180.0114	Pass	5180.0135	Pass	5180.0163	Pass	5180.0116	Pass

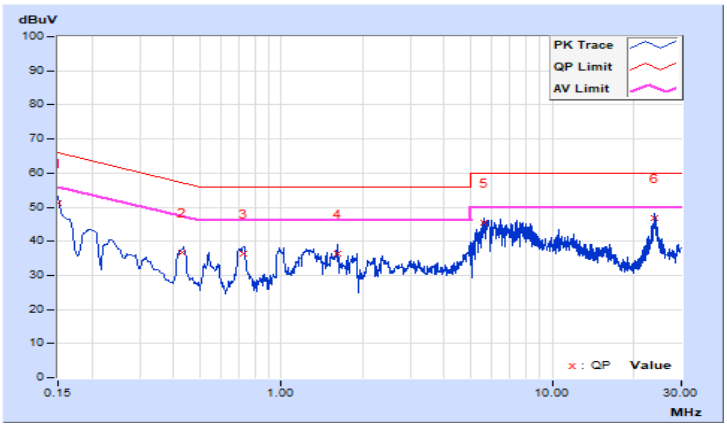
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 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	0.15000	10.04	41.17	31.38	51.21	41.42	66.00	56.00	-14.79	-14.58
2	0.43122	10.10	26.44	18.34	36.54	28.44	57.23	47.23	-20.69	-18.79
3	0.72658	10.12	26.15	17.61	36.27	27.73	56.00	46.00	-19.73	-18.27
4	1.60594	10.13	26.25	14.63	36.38	24.76	56.00	46.00	-19.62	-21.24
5	5.57462	10.26	35.24	23.13	45.50	33.39	60.00	50.00	-14.50	-16.61
6	**23.92347**	**10.52**	**36.38**	**28.14**	**46.90**	**38.66**	**60.00**	**50.00**	**-13.10**	**-11.34**

Remarks:

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

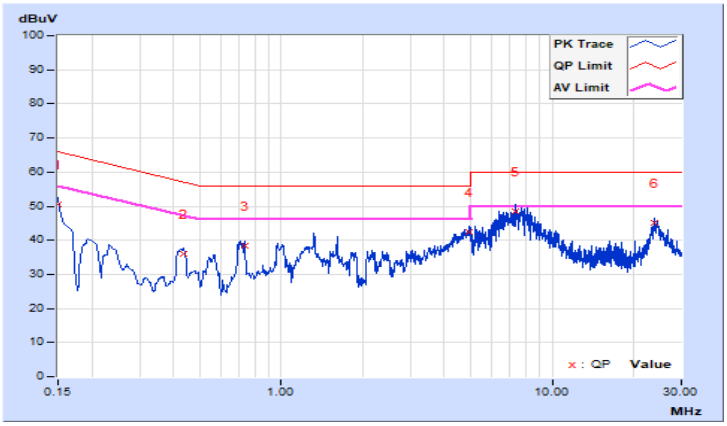


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Jed Wu		

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	0.15000	10.04	40.50	29.54	50.54	39.58	66.00	56.00	-15.46	-16.42
2	0.43694	10.10	26.03	18.37	36.13	28.47	57.12	47.12	-20.99	-18.65
3	0.73428	10.12	28.29	18.59	38.41	28.71	56.00	46.00	-17.59	-17.29
4	4.96408	10.24	32.06	21.56	42.30	31.80	56.00	46.00	-13.70	-14.20
5	7.34931	10.30	38.23	26.49	48.53	36.79	60.00	50.00	-11.47	-13.21
6	23.89220	10.51	34.76	25.92	45.27	36.43	60.00	50.00	-14.73	-13.57

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



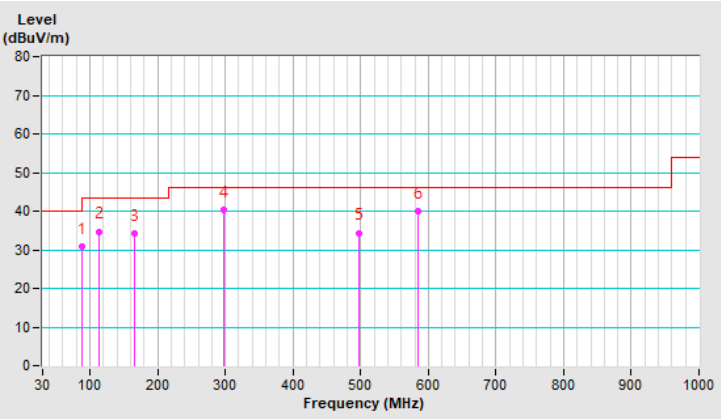
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 73% RH
Tested By	William Su		

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	87.52	30.7 QP	40.0	-9.3	2.10 H	14	45.1	-14.4
2	113.66	34.6 QP	43.5	-8.9	2.08 H	143	46.3	-11.7
3	165.90	34.1 QP	43.5	-9.4	1.34 H	193	42.6	-8.5
4	296.99	40.2 QP	46.0	-5.8	1.56 H	218	46.5	-6.3
5	497.88	34.4 QP	46.0	-11.6	1.49 H	115	36.2	-1.8
6	584.89	39.9 QP	46.0	-6.1	1.03 H	246	39.5	0.4

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 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.

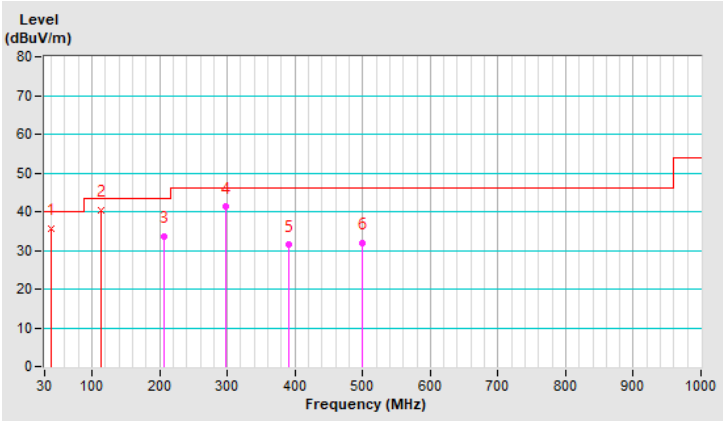


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 73% RH
Tested By	William Su		

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	39.79	35.6 QP	40.0	-4.4	1.16 V	20	45.1	-9.5
2	**113.66**	**40.3 QP**	**43.5**	**-3.2**	**1.05 V**	**360**	**52.0**	**-11.7**
3	207.36	33.6 QP	43.5	-9.9	1.83 V	360	44.4	-10.8
4	296.99	41.2 QP	46.0	-4.8	1.23 V	285	47.5	-6.3
5	390.11	31.4 QP	46.0	-14.6	1.01 V	198	35.6	-4.2
6	499.96	31.9 QP	46.0	-14.1	1.97 V	86	33.6	-1.7

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.



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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	58.6 PK	74.0	-15.4	1.49 H	336	51.1	7.5
2	5150.00	47.8 AV	54.0	-6.2	1.49 H	336	40.3	7.5
3	*5180.00	104.4 PK			1.49 H	336	96.9	7.5
4	*5180.00	96.7 AV			1.49 H	336	89.2	7.5
5	#10360.00	60.0 PK	68.2	-8.2	1.87 H	286	44.6	15.4
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	5150.00	59.8 PK	74.0	-14.2	2.31 V	345	52.3	7.5
2	5150.00	48.7 AV	54.0	-5.3	2.31 V	345	41.2	7.5
3	*5180.00	109.4 PK			2.31 V	345	101.9	7.5
4	*5180.00	101.3 AV			2.31 V	345	93.8	7.5
5	#10360.00	60.6 PK	68.2	-7.6	2.78 V	10	45.2	15.4

Remarks:

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

RF Mode	802.11a	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	102.8 PK			1.65 H	329	95.3	7.5
2	*5200.00	95.9 AV			1.65 H	329	88.4	7.5
3	#10400.00	59.9 PK	68.2	-8.3	2.03 H	293	44.4	15.5
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	*5200.00	108.1 PK			2.46 V	344	100.6	7.5
2	*5200.00	100.1 AV			2.46 V	344	92.6	7.5
3	#10400.00	60.5 PK	68.2	-7.7	2.93 V	11	45.0	15.5

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 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	104.2 PK			1.48 H	330	96.3	7.9
2	*5240.00	96.4 AV			1.48 H	330	88.5	7.9
3	5350.00	59.3 PK	74.0	-14.7	1.48 H	330	50.7	8.6
4	5350.00	48.4 AV	54.0	-5.6	1.48 H	330	39.8	8.6
5	#10480.00	60.2 PK	68.2	-8.0	1.86 H	285	44.3	15.9
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	*5240.00	109.5 PK			2.31 V	345	101.6	7.9
2	*5240.00	101.5 AV			2.31 V	345	93.6	7.9
3	5350.00	59.7 PK	74.0	-14.3	2.31 V	345	51.1	8.6
4	5350.00	48.9 AV	54.0	-5.1	2.31 V	345	40.3	8.6
5	#10480.00	60.8 PK	68.2	-7.4	2.77 V	9	44.9	15.9

Remarks:

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

RF Mode	802.11a	**Channel**	CH 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	59.4 PK	74.0	-14.6	1.50 H	335	51.9	7.5
2	5150.00	48.6 AV	54.0	-5.4	1.50 H	335	41.1	7.5
3	*5260.00	105.4 PK			1.50 H	335	97.3	8.1
4	*5260.00	97.8 AV			1.50 H	335	89.7	8.1
5	#10520.00	60.7 PK	68.2	-7.5	1.88 H	286	44.7	16.0
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	5150.00	59.7 PK	74.0	-14.3	2.31 V	344	52.2	7.5
2	5150.00	48.9 AV	54.0	-5.1	2.31 V	344	41.4	7.5
3	*5260.00	110.0 PK			2.31 V	344	101.9	8.1
4	*5260.00	101.8 AV			2.31 V	344	93.7	8.1
5	#10520.00	61.3 PK	68.2	-6.9	2.78 V	11	45.3	16.0

Remarks:

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

RF Mode	802.11a	**Channel**	CH 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	105.6 PK			2.59 H	338	97.2	8.4
2	*5300.00	98.0 AV			2.59 H	338	89.6	8.4
3	10600.00	60.6 PK	74.0	-13.4	2.97 H	284	44.5	16.1
4	10600.00	50.7 AV	54.0	-3.3	2.97 H	284	34.6	16.1
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	*5300.00	110.5 PK			1.21 V	343	102.1	8.4
2	*5300.00	102.2 AV			1.21 V	343	93.8	8.4
3	10600.00	61.2 PK	74.0	-12.8	1.68 V	12	45.1	16.1
4	10600.00	51.2 AV	54.0	-2.8	1.68 V	12	35.1	16.1

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.

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5320.00	105.5 PK			2.59 H	342	97.0	8.5
2	*5320.00	97.7 AV			2.59 H	342	89.2	8.5
3	5350.00	59.2 PK	74.0	-14.8	2.59 H	342	50.6	8.6
4	5350.00	48.6 AV	54.0	-5.4	2.59 H	342	40.0	8.6
5	10640.00	59.4 PK	74.0	-14.6	1.77 H	295	43.4	16.0
6	10640.00	49.5 AV	54.0	-4.5	1.77 H	295	33.5	16.0
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	109.9 PK			1.21 V	351	101.4	8.5
2	*5320.00	102.2 AV			1.21 V	351	93.7	8.5
3	5350.00	59.7 PK	74.0	-14.3	1.21 V	351	51.1	8.6
4	5350.00	48.9 AV	54.0	-5.1	1.21 V	351	40.3	8.6
5	10640.00	60.0 PK	74.0	-14.0	2.68 V	1	44.0	16.0
6	10640.00	50.0 AV	54.0	-4.0	2.68 V	1	34.0	16.0

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	59.4 PK	74.0	-14.6	2.29 H	350	50.6	8.8
2	5460.00	48.7 AV	54.0	-5.3	2.29 H	350	39.9	8.8
3	#5470.00	60.2 PK	68.2	-8.0	2.29 H	350	51.4	8.8
4	*5500.00	104.4 PK			2.29 H	350	95.5	8.9
5	*5500.00	96.8 AV			2.29 H	350	87.9	8.9
6	11000.00	60.0 PK	74.0	-14.0	1.64 H	152	43.1	16.9
7	11000.00	48.3 AV	54.0	-5.7	1.64 H	152	31.4	16.9
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	5460.00	59.9 PK	74.0	-14.1	1.51 V	359	51.1	8.8
2	5460.00	49.0 AV	54.0	-5.0	1.51 V	359	40.2	8.8
3	#5470.00	60.5 PK	68.2	-7.7	1.51 V	359	51.7	8.8
4	*5500.00	108.9 PK			1.51 V	359	100.0	8.9
5	*5500.00	100.9 AV			1.51 V	359	92.0	8.9
6	11000.00	63.2 PK	74.0	-10.8	1.21 V	3	46.3	16.9
7	11000.00	52.8 AV	54.0	-1.2	1.21 V	3	35.9	16.9

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 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	106.3 PK			1.86 H	338	97.7	8.6
2	*5580.00	98.7 AV			1.86 H	338	90.1	8.6
3	11160.00	61.0 PK	74.0	-13.0	1.21 H	140	44.0	17.0
4	11160.00	49.3 AV	54.0	-4.7	1.21 H	140	32.3	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	110.8 PK			1.08 V	347	102.2	8.6
2	*5580.00	102.5 AV			1.08 V	347	93.9	8.6
3	11160.00	64.2 PK	74.0	-9.8	1.09 V	359	47.2	17.0
4	11160.00	53.2 AV	54.0	-0.8	1.09 V	359	36.2	17.0

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	105.9 PK			1.84 H	336	97.8	8.1
2	*5700.00	98.1 AV			1.84 H	336	90.0	8.1
3	#5725.00	59.2 PK	68.2	-9.0	1.84 H	336	51.1	8.1
4	11400.00	56.7 PK	74.0	-17.3	1.19 H	166	39.1	17.6
5	11400.00	45.4 AV	54.0	-8.6	1.19 H	166	27.8	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	109.8 PK			1.06 V	13	101.7	8.1
2	*5700.00	102.3 AV			1.06 V	13	94.2	8.1
3	#5725.00	59.6 PK	68.2	-8.6	1.06 V	13	51.5	8.1
4	11400.00	59.9 PK	74.0	-14.1	1.34 V	2	42.3	17.6
5	11400.00	49.0 AV	54.0	-5.0	1.34 V	2	31.4	17.6

Remarks:

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

RF Mode	802.11a	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5606.05	59.0 PK	68.2	-9.2	2.36 H	329	50.6	8.4
2	*5745.00	106.2 PK			2.36 H	329	98.2	8.0
3	*5745.00	98.2 AV			2.36 H	329	90.2	8.0
4	#5976.07	59.7 PK	68.2	-8.5	2.36 H	329	51.4	8.3
5	11490.00	55.6 PK	74.0	-18.4	1.71 H	131	38.6	17.0
6	11490.00	43.8 AV	54.0	-10.2	1.71 H	131	26.8	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5606.52	58.5 PK	68.2	-9.7	1.58 V	338	50.1	8.4
2	*5745.00	110.3 PK			1.58 V	338	102.3	8.0
3	*5745.00	101.9 AV			1.58 V	338	93.9	8.0
4	#5962.30	59.4 PK	68.2	-8.8	1.58 V	338	51.1	8.3
5	11490.00	58.2 PK	74.0	-15.8	1.33 V	353	41.2	17.0
6	11490.00	46.6 AV	54.0	-7.4	1.33 V	353	29.6	17.0

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5576.12	59.3 PK	68.2	-8.9	2.06 H	306	50.7	8.6
2	*5785.00	105.8 PK			2.06 H	306	97.8	8.0
3	*5785.00	97.8 AV			2.06 H	306	89.8	8.0
4	#5937.60	59.6 PK	68.2	-8.6	2.06 H	306	51.3	8.3
5	11570.00	57.0 PK	74.0	-17.0	1.41 H	108	39.5	17.5
6	11570.00	45.4 AV	54.0	-8.6	1.41 H	108	27.9	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5590.55	58.9 PK	68.2	-9.3	1.28 V	1	50.5	8.4
2	*5785.00	109.3 PK			1.28 V	1	101.3	8.0
3	*5785.00	101.4 AV			1.28 V	1	93.4	8.0
4	#6019.95	59.7 PK	68.2	-8.5	1.28 V	1	51.2	8.5
5	11570.00	59.6 PK	74.0	-14.4	1.03 V	16	42.1	17.5
6	11570.00	48.0 AV	54.0	-6.0	1.03 V	16	30.5	17.5

Remarks:

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

RF Mode	802.11a	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5609.85	59.0 PK	68.2	-9.2	2.75 H	243	50.6	8.4
2	*5825.00	105.5 PK			2.75 H	243	97.5	8.0
3	*5825.00	97.5 AV			2.75 H	243	89.5	8.0
4	#6003.15	59.2 PK	68.2	-9.0	2.75 H	243	50.9	8.3
5	11650.00	57.0 PK	74.0	-17.0	2.10 H	217	39.0	18.0
6	11650.00	45.2 AV	54.0	-8.8	2.10 H	217	27.2	18.0
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	#5626.95	59.7 PK	68.2	-8.5	1.97 V	252	51.4	8.3
2	*5825.00	108.8 PK			1.97 V	252	100.8	8.0
3	*5825.00	101.5 AV			1.97 V	252	93.5	8.0
4	#6008.37	60.7 PK	68.2	-7.5	1.97 V	252	52.3	8.4
5	11650.00	59.6 PK	74.0	-14.4	1.72 V	267	41.6	18.0
6	11650.00	48.0 AV	54.0	-6.0	1.72 V	267	30.0	18.0

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	58.9 PK	74.0	-15.1	1.48 H	343	51.4	7.5
2	5150.00	48.5 AV	54.0	-5.5	1.48 H	343	41.0	7.5
3	*5180.00	107.5 PK			1.48 H	343	100.0	7.5
4	*5180.00	96.8 AV			1.48 H	343	89.3	7.5
5	#10360.00	60.9 PK	68.2	-7.3	1.88 H	279	45.5	15.4
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	5150.00	59.9 PK	74.0	-14.1	2.30 V	352	52.4	7.5
2	5150.00	48.8 AV	54.0	-5.2	2.30 V	352	41.3	7.5
3	*5180.00	112.3 PK			2.30 V	352	104.8	7.5
4	*5180.00	101.2 AV			2.30 V	352	93.7	7.5
5	#10360.00	61.5 PK	68.2	-6.7	2.77 V	17	46.1	15.4

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 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	106.1 PK			1.46 H	329	98.6	7.5
2	*5200.00	95.5 AV			1.46 H	329	88.0	7.5
3	#10400.00	60.8 PK	68.2	-7.4	1.84 H	293	45.3	15.5
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	*5200.00	111.1 PK			2.28 V	352	103.6	7.5
2	*5200.00	100.1 AV			2.28 V	352	92.6	7.5
3	#10400.00	61.4 PK	68.2	-6.8	2.75 V	3	45.9	15.5

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	107.2 PK			2.26 H	337	99.3	7.9
2	*5240.00	96.6 AV			2.26 H	337	88.7	7.9
3	5350.00	59.1 PK	74.0	-14.9	2.26 H	337	50.5	8.6
4	5350.00	48.6 AV	54.0	-5.4	2.26 H	337	40.0	8.6
5	#10480.00	60.9 PK	68.2	-7.3	1.09 H	285	45.0	15.9
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	*5240.00	112.2 PK			1.53 V	346	104.3	7.9
2	*5240.00	101.2 AV			1.53 V	346	93.3	7.9
3	5350.00	59.9 PK	74.0	-14.1	1.53 V	346	51.3	8.6
4	5350.00	48.9 AV	54.0	-5.1	1.53 V	346	40.3	8.6
5	#10480.00	61.5 PK	68.2	-6.7	2.00 V	11	45.6	15.9

Remarks:

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

RF Mode	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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	58.8 PK	74.0	-15.2	2.58 H	338	51.3	7.5
2	5150.00	48.4 AV	54.0	-5.6	2.58 H	338	40.9	7.5
3	*5260.00	107.6 PK			2.58 H	338	99.5	8.1
4	*5260.00	96.6 AV			2.58 H	338	88.5	8.1
5	#10520.00	61.7 PK	68.2	-6.5	2.96 H	284	45.7	16.0
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	5150.00	59.3 PK	74.0	-14.7	1.22 V	343	51.8	7.5
2	5150.00	48.8 AV	54.0	-5.2	1.22 V	343	41.3	7.5
3	*5260.00	112.0 PK			1.22 V	343	103.9	8.1
4	*5260.00	101.0 AV			1.22 V	343	92.9	8.1
5	#10520.00	62.3 PK	68.2	-5.9	1.69 V	12	46.3	16.0

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 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5300.00	108.4 PK			2.67 H	343	100.0	8.4
2	*5300.00	97.7 AV			2.67 H	343	89.3	8.4
3	10600.00	59.4 PK	74.0	-14.6	1.78 H	296	43.3	16.1
4	10600.00	47.8 AV	54.0	-6.2	1.78 H	296	31.7	16.1
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	*5300.00	112.7 PK			1.29 V	350	104.3	8.4
2	*5300.00	102.0 AV			1.29 V	350	93.6	8.4
3	10600.00	60.0 PK	74.0	-14.0	2.68 V	2	43.9	16.1
4	10600.00	48.4 AV	54.0	-5.6	2.68 V	2	32.3	16.1

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.

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	109.1 PK			2.58 H	343	100.6	8.5
2	*5320.00	98.2 AV			2.58 H	343	89.7	8.5
3	5350.00	59.5 PK	74.0	-14.5	2.58 H	343	50.9	8.6
4	5350.00	48.6 AV	54.0	-5.4	2.58 H	343	40.0	8.6
5	10640.00	60.3 PK	74.0	-13.7	1.76 H	294	44.3	16.0
6	10640.00	49.5 AV	54.0	-4.5	1.76 H	294	33.5	16.0
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	113.0 PK			1.20 V	350	104.5	8.5
2	*5320.00	102.1 AV			1.20 V	350	93.6	8.5
3	5350.00	59.8 PK	74.0	-14.2	1.20 V	350	51.2	8.6
4	5350.00	49.0 AV	54.0	-5.0	1.20 V	350	40.4	8.6
5	10640.00	60.9 PK	74.0	-13.1	2.67 V	1	44.9	16.0
6	10640.00	49.9 AV	54.0	-4.1	2.67 V	1	33.9	16.0

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	60.1 PK	74.0	-13.9	2.30 H	349	51.3	8.8
2	5460.00	48.9 AV	54.0	-5.1	2.30 H	349	40.1	8.8
3	#5470.00	59.2 PK	68.2	-9.0	2.30 H	349	50.4	8.8
4	*5500.00	109.8 PK			2.30 H	349	100.9	8.9
5	*5500.00	98.4 AV			2.30 H	349	89.5	8.9
6	11000.00	62.8 PK	74.0	-11.2	1.65 H	151	45.9	16.9
7	11000.00	48.7 AV	54.0	-5.3	1.65 H	151	31.8	16.9
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	5460.00	60.4 PK	74.0	-13.6	1.51 V	359	51.6	8.8
2	5460.00	49.2 AV	54.0	-4.8	1.51 V	359	40.4	8.8
3	#5470.00	59.7 PK	68.2	-8.5	1.51 V	359	50.9	8.8
4	*5500.00	113.5 PK			1.51 V	359	104.6	8.9
5	*5500.00	102.4 AV			1.51 V	359	93.5	8.9
6	11000.00	66.0 PK	74.0	-8.0	1.25 V	359	49.1	16.9
7	11000.00	53.2 AV	54.0	-0.8	1.25 V	359	36.3	16.9

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 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	109.1 PK			2.22 H	339	100.5	8.6
2	*5580.00	98.4 AV			2.22 H	339	89.8	8.6
3	11160.00	63.2 PK	74.0	-10.8	1.61 H	141	46.2	17.0
4	11160.00	51.9 AV	54.0	-2.1	1.61 H	141	34.9	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	113.4 PK			1.44 V	348	104.8	8.6
2	*5580.00	102.3 AV			1.44 V	348	93.7	8.6
3	11160.00	66.3 PK	74.0	-7.7	1.18 V	10	49.3	17.0
4	**11160.00**	**53.5 AV**	**54.0**	**-0.5**	**1.18 V**	**10**	**36.5**	**17.0**

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	107.7 PK			2.15 H	331	99.6	8.1
2	*5700.00	96.8 AV			2.15 H	331	88.7	8.1
3	#5725.00	58.9 PK	68.2	-9.3	2.15 H	331	50.8	8.1
4	11400.00	62.9 PK	74.0	-11.1	1.50 H	133	45.3	17.6
5	11400.00	49.2 AV	54.0	-4.8	1.50 H	133	31.6	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5700.00	112.1 PK			1.37 V	339	104.0	8.1
2	*5700.00	101.3 AV			1.37 V	339	93.2	8.1
3	#5725.00	59.2 PK	68.2	-9.0	1.37 V	339	51.1	8.1
4	11400.00	66.1 PK	74.0	-7.9	1.11 V	1	48.5	17.6
5	11400.00	53.3 AV	54.0	-0.7	1.11 V	1	35.7	17.6

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5587.05	58.6 PK	68.2	-9.6	2.82 H	335	50.0	8.6
2	*5745.00	109.1 PK			2.82 H	335	101.1	8.0
3	*5745.00	98.6 AV			2.82 H	335	90.6	8.0
4	#6023.10	60.1 PK	68.2	-8.1	2.82 H	335	51.6	8.5
5	11490.00	56.3 PK	74.0	-17.7	2.17 H	137	39.3	17.0
6	11490.00	44.5 AV	54.0	-9.5	2.17 H	137	27.5	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5617.45	59.3 PK	68.2	-8.9	1.12 V	344	51.0	8.3
2	*5745.00	113.0 PK			1.12 V	344	105.0	8.0
3	*5745.00	102.3 AV			1.12 V	344	94.3	8.0
4	#5989.85	60.0 PK	68.2	-8.2	1.12 V	344	51.6	8.4
5	11490.00	58.9 PK	74.0	-15.1	1.79 V	347	41.9	17.0
6	11490.00	47.3 AV	54.0	-6.7	1.79 V	347	30.3	17.0

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5559.02	59.3 PK	68.2	-8.9	1.83 H	323	50.6	8.7
2	*5785.00	109.6 PK			1.83 H	323	101.6	8.0
3	*5785.00	98.8 AV			1.83 H	323	90.8	8.0
4	#6004.57	59.8 PK	68.2	-8.4	1.83 H	323	51.5	8.3
5	11570.00	57.4 PK	74.0	-16.6	1.18 H	125	39.9	17.5
6	11570.00	45.6 AV	54.0	-8.4	1.18 H	125	28.1	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5593.23	59.6 PK	68.2	-8.6	1.05 V	344	51.2	8.4
2	*5785.00	113.6 PK			1.05 V	344	105.6	8.0
3	*5785.00	102.5 AV			1.05 V	344	94.5	8.0
4	#5998.87	60.5 PK	68.2	-7.7	1.05 V	344	52.2	8.3
5	11570.00	60.0 PK	74.0	-14.0	1.86 V	348	42.5	17.5
6	11570.00	48.4 AV	54.0	-5.6	1.86 V	348	30.9	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5574.23	59.6 PK	68.2	-8.6	1.82 H	324	51.0	8.6
2	*5825.00	109.1 PK			1.82 H	324	101.1	8.0
3	*5825.00	98.1 AV			1.82 H	324	90.1	8.0
4	#5982.25	60.7 PK	68.2	-7.5	1.82 H	324	52.3	8.4
5	11650.00	57.5 PK	74.0	-16.5	1.17 H	126	39.5	18.0
6	11650.00	45.7 AV	54.0	-8.3	1.17 H	126	27.7	18.0
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	#5619.82	58.7 PK	68.2	-9.5	1.04 V	343	50.4	8.3
2	*5825.00	113.2 PK			1.04 V	343	105.2	8.0
3	*5825.00	102.5 AV			1.04 V	343	94.5	8.0
4	#6020.25	60.3 PK	68.2	-7.9	1.04 V	343	51.8	8.5
5	11650.00	60.1 PK	74.0	-13.9	1.87 V	349	42.1	18.0
6	11650.00	48.5 AV	54.0	-5.5	1.87 V	349	30.5	18.0

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	59.3 PK	74.0	-14.7	2.08 H	335	51.8	7.5
2	5150.00	48.5 AV	54.0	-5.5	2.08 H	335	41.0	7.5
3	*5190.00	104.0 PK			2.08 H	335	96.5	7.5
4	*5190.00	93.0 AV			2.08 H	335	85.5	7.5
5	#10380.00	60.6 PK	68.2	-7.6	1.28 H	286	45.0	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	59.6 PK	74.0	-14.4	1.72 V	344	52.1	7.5
2	5150.00	48.8 AV	54.0	-5.2	1.72 V	344	41.3	7.5
3	*5190.00	109.0 PK			1.72 V	344	101.5	7.5
4	*5190.00	98.5 AV			1.72 V	344	91.0	7.5
5	#10380.00	61.2 PK	68.2	-7.0	2.19 V	9	45.6	15.6

Remarks:

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

RF Mode	802.11ax (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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	104.5 PK			2.36 H	335	96.7	7.8
2	*5230.00	93.3 AV			2.36 H	335	85.5	7.8
3	5350.00	59.4 PK	74.0	-14.6	2.36 H	335	50.8	8.6
4	5350.00	48.6 AV	54.0	-5.4	2.36 H	335	40.0	8.6
5	#10460.00	61.1 PK	68.2	-7.1	1.00 H	286	45.2	15.9
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	*5230.00	109.1 PK			1.38 V	345	101.3	7.8
2	*5230.00	98.6 AV			1.38 V	345	90.8	7.8
3	5350.00	60.1 PK	74.0	-13.9	1.38 V	345	51.5	8.6
4	5350.00	48.7 AV	54.0	-5.3	1.38 V	345	40.1	8.6
5	#10460.00	61.7 PK	68.2	-6.5	1.85 V	9	45.8	15.9

Remarks:

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

RF Mode	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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	58.7 PK	74.0	-15.3	2.82 H	344	51.2	7.5
2	5150.00	48.6 AV	54.0	-5.4	2.82 H	344	41.1	7.5
3	*5270.00	105.7 PK			2.82 H	344	97.6	8.1
4	*5270.00	94.7 AV			2.82 H	344	86.6	8.1
5	#10540.00	59.9 PK	68.2	-8.3	2.00 H	297	44.0	15.9
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	59.0 PK	74.0	-15.0	1.44 V	349	51.5	7.5
2	5150.00	48.9 AV	54.0	-5.1	1.44 V	349	41.4	7.5
3	*5270.00	110.0 PK			1.44 V	349	101.9	8.1
4	*5270.00	99.1 AV			1.44 V	349	91.0	8.1
5	#10540.00	60.5 PK	68.2	-7.7	2.91 V	3	44.6	15.9

Remarks:

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

RF Mode	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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	106.4 PK			3.23 H	341	98.0	8.4
2	*5310.00	95.3 AV			3.23 H	341	86.9	8.4
3	5350.00	59.2 PK	74.0	-14.8	3.23 H	341	50.6	8.6
4	5350.00	48.8 AV	54.0	-5.2	3.23 H	341	40.2	8.6
5	10620.00	58.1 PK	74.0	-15.9	2.41 H	296	42.1	16.0
6	10620.00	47.2 AV	54.0	-6.8	2.41 H	296	31.2	16.0
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	*5310.00	110.5 PK			1.85 V	351	102.1	8.4
2	*5310.00	99.4 AV			1.85 V	351	91.0	8.4
3	5350.00	59.5 PK	74.0	-14.5	1.85 V	351	50.9	8.6
4	5350.00	49.1 AV	54.0	-4.9	1.85 V	351	40.5	8.6
5	10620.00	58.7 PK	74.0	-15.3	2.76 V	2	42.7	16.0
6	10620.00	47.8 AV	54.0	-6.2	2.76 V	2	31.8	16.0

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 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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	59.3 PK	74.0	-14.7	2.09 H	338	50.5	8.8
2	5460.00	49.0 AV	54.0	-5.0	2.09 H	338	40.2	8.8
3	#5470.00	60.6 PK	68.2	-7.6	2.09 H	338	51.8	8.8
4	*5510.00	105.9 PK			2.09 H	338	97.1	8.8
5	*5510.00	94.9 AV			2.09 H	338	86.1	8.8
6	11020.00	60.3 PK	74.0	-13.7	1.44 H	140	43.5	16.8
7	11020.00	48.7 AV	54.0	-5.3	1.44 H	140	31.9	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	59.6 PK	74.0	-14.4	1.31 V	347	50.8	8.8
2	5460.00	49.3 AV	54.0	-4.7	1.31 V	347	40.5	8.8
3	#5470.00	62.1 PK	68.2	-6.1	1.31 V	347	53.3	8.8
4	*5510.00	110.1 PK			1.31 V	347	101.3	8.8
5	*5510.00	99.3 AV			1.31 V	347	90.5	8.8
6	11020.00	63.1 PK	74.0	-10.9	1.21 V	0	46.3	16.8
7	11020.00	51.5 AV	54.0	-2.5	1.21 V	0	34.7	16.8

Remarks:

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

RF Mode	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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	107.0 PK			2.08 H	339	98.2	8.8
2	*5550.00	97.2 AV			2.08 H	339	88.4	8.8
3	11100.00	58.6 PK	74.0	-15.4	1.43 H	141	42.1	16.5
4	11100.00	46.7 AV	54.0	-7.3	1.43 H	141	30.2	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5550.00	111.5 PK			1.30 V	348	102.7	8.8
2	*5550.00	100.3 AV			1.30 V	348	91.5	8.8
3	11100.00	61.4 PK	74.0	-12.6	1.22 V	1	44.9	16.5
4	11100.00	49.8 AV	54.0	-4.2	1.22 V	1	33.3	16.5

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	105.8 PK			2.20 H	329	97.7	8.1
2	*5670.00	94.9 AV			2.20 H	329	86.8	8.1
3	#5725.00	59.2 PK	68.2	-9.0	2.20 H	329	51.1	8.1
4	11340.00	57.6 PK	74.0	-16.4	1.55 H	131	40.2	17.4
5	11340.00	45.5 AV	54.0	-8.5	1.55 H	131	28.1	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5670.00	109.4 PK			1.60 V	338	101.3	8.1
2	*5670.00	98.6 AV			1.60 V	338	90.5	8.1
3	#5725.00	59.6 PK	68.2	-8.6	1.60 V	338	51.5	8.1
4	11340.00	60.9 PK	74.0	-13.1	1.12 V	24	43.5	17.4
5	11340.00	49.3 AV	54.0	-4.7	1.12 V	24	31.9	17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5577.07	59.0 PK	68.2	-9.2	1.83 H	320	50.4	8.6
2	*5755.00	107.5 PK			1.83 H	320	99.4	8.1
3	*5755.00	96.2 AV			1.83 H	320	88.1	8.1
4	#5936.65	59.6 PK	68.2	-8.6	1.83 H	320	51.3	8.3
5	11510.00	56.0 PK	74.0	-18.0	1.18 H	122	39.0	17.0
6	11510.00	44.2 AV	54.0	-9.8	1.18 H	122	27.2	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5562.82	59.1 PK	68.2	-9.1	1.05 V	347	50.5	8.6
2	*5755.00	110.8 PK			1.05 V	347	102.7	8.1
3	*5755.00	99.8 AV			1.05 V	347	91.7	8.1
4	#6001.73	60.3 PK	68.2	-7.9	1.05 V	347	52.0	8.3
5	11510.00	58.6 PK	74.0	-15.4	1.86 V	344	41.6	17.0
6	11510.00	47.0 AV	54.0	-7.0	1.86 V	344	30.0	17.0

Remarks:

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

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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5589.90	59.1 PK	68.2	-9.1	2.10 H	323	50.7	8.4
2	*5795.00	107.0 PK			2.10 H	323	99.0	8.0
3	*5795.00	96.6 AV			2.10 H	323	88.6	8.0
4	#5969.90	59.7 PK	68.2	-8.5	2.10 H	323	51.4	8.3
5	11590.00	56.8 PK	74.0	-17.2	1.45 H	125	39.1	17.7
6	11590.00	45.0 AV	54.0	-9.0	1.45 H	125	27.3	17.7
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	#5600.35	58.7 PK	68.2	-9.5	1.32 V	344	50.3	8.4
2	*5795.00	110.8 PK			1.32 V	344	102.8	8.0
3	*5795.00	99.9 AV			1.32 V	344	91.9	8.0
4	#6016.45	60.2 PK	68.2	-8.0	1.32 V	344	51.7	8.5
5	11590.00	59.4 PK	74.0	-14.6	1.07 V	347	41.7	17.7
6	11590.00	47.8 AV	54.0	-6.2	1.07 V	347	30.1	17.7

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 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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	61.1 PK	74.0	-12.9	2.72 H	337	53.6	7.5
2	5150.00	49.2 AV	54.0	-4.8	2.72 H	337	41.7	7.5
3	*5210.00	103.0 PK			2.72 H	337	95.3	7.7
4	*5210.00	91.7 AV			2.72 H	337	84.0	7.7
5	5350.00	59.6 PK	74.0	-14.4	2.72 H	337	51.0	8.6
6	5350.00	48.4 AV	54.0	-5.6	2.72 H	337	39.8	8.6
7	#10420.00	57.6 PK	68.2	-10.6	3.10 H	285	41.9	15.7
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	63.4 PK	74.0	-10.6	1.08 V	344	55.9	7.5
2	5150.00	50.3 AV	54.0	-3.7	1.08 V	344	42.8	7.5
3	*5210.00	106.9 PK			1.08 V	344	99.2	7.7
4	*5210.00	95.9 AV			1.08 V	344	88.2	7.7
5	5350.00	60.0 PK	74.0	-14.0	1.08 V	344	51.4	8.6
6	5350.00	48.7 AV	54.0	-5.3	1.08 V	344	40.1	8.6
7	#10420.00	58.2 PK	68.2	-10.0	1.55 V	11	42.5	15.7

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 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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	#5190.00	58.9 PK	68.2	-9.3	2.75 H	343	51.4	7.5
2	#5190.00	48.6 AV	54.0	-5.4	2.75 H	343	41.1	7.5
3	*5290.00	106.0 PK			2.75 H	343	97.6	8.4
4	*5290.00	94.5 AV			2.75 H	343	86.1	8.4
5	5350.00	59.6 PK	74.0	-14.4	2.75 H	343	51.0	8.6
6	5350.00	48.8 AV	54.0	-5.2	2.75 H	343	40.2	8.6
7	#10580.00	58.1 PK	68.2	-10.1	1.93 H	294	42.0	16.1
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	5150.00	59.2 PK	74.0	-14.8	1.37 V	350	51.7	7.5
2	5150.00	49.0 AV	54.0	-5.0	1.37 V	350	41.5	7.5
3	*5290.00	108.4 PK			1.37 V	350	100.0	8.4
4	*5290.00	97.9 AV			1.37 V	350	89.5	8.4
5	5350.00	59.9 PK	74.0	-14.1	1.37 V	350	51.3	8.6
6	5350.00	49.2 AV	54.0	-4.8	1.37 V	350	40.6	8.6
7	#10580.00	58.7 PK	68.2	-9.5	2.84 V	2	42.6	16.1

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 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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	59.5 PK	74.0	-14.5	2.23 H	338	50.7	8.8
2	5460.00	49.0 AV	54.0	-5.0	2.23 H	338	40.2	8.8
3	#5470.00	62.6 PK	68.2	-5.6	2.23 H	338	53.8	8.8
4	*5530.00	103.8 PK			2.23 H	338	95.0	8.8
5	*5530.00	92.7 AV			2.23 H	338	83.9	8.8
6	11060.00	56.9 PK	74.0	-17.1	1.58 H	140	40.3	16.6
7	11060.00	46.1 AV	54.0	-7.9	1.58 H	140	29.5	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	59.8 PK	74.0	-14.2	1.45 V	347	51.0	8.8
2	5460.00	49.5 AV	54.0	-4.5	1.45 V	347	40.7	8.8
3	#5470.00	63.0 PK	68.2	-5.2	1.45 V	347	54.2	8.8
4	*5530.00	108.1 PK			1.45 V	347	99.3	8.8
5	*5530.00	96.8 AV			1.45 V	347	88.0	8.8
6	11060.00	60.4 PK	74.0	-13.6	1.17 V	0	43.8	16.6
7	11060.00	49.2 AV	54.0	-4.8	1.17 V	0	32.6	16.6

Remarks:

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

RF Mode	802.11ax (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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% 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	103.7 PK			2.07 H	338	95.3	8.4
2	*5610.00	93.2 AV			2.07 H	338	84.8	8.4
3	#5725.00	59.1 PK	68.2	-9.1	2.07 H	338	51.0	8.1
4	11220.00	58.9 PK	74.0	-15.1	1.42 H	164	41.5	17.4
5	11220.00	47.5 AV	54.0	-6.5	1.42 H	164	30.1	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5610.00	108.1 PK			1.29 V	347	99.7	8.4
2	*5610.00	97.0 AV			1.29 V	347	88.6	8.4
3	#5725.00	59.4 PK	68.2	-8.8	1.29 V	347	51.3	8.1
4	11220.00	61.6 PK	74.0	-12.4	1.01 V	1	44.2	17.4
5	11220.00	50.4 AV	54.0	-3.6	1.01 V	1	33.0	17.4

Remarks:

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

RF Mode	802.11ax (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	120 Vac, 60 Hz	**Environmental Conditions**	16°C, 60% RH
Tested By	Jed Wu		

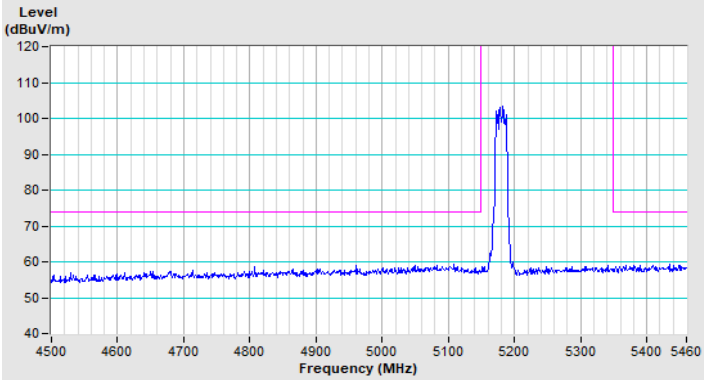
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5552.37	59.4 PK	68.2	-8.8	1.82 H	322	50.6	8.8
2	*5775.00	105.2 PK			1.82 H	322	97.2	8.0
3	*5775.00	93.6 AV			1.82 H	322	85.6	8.0
4	#5984.62	59.5 PK	68.2	-8.7	1.82 H	322	51.1	8.4
5	11550.00	55.4 PK	74.0	-18.6	1.17 H	138	38.0	17.4
6	11550.00	43.7 AV	54.0	-10.3	1.17 H	138	26.3	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5564.73	58.8 PK	68.2	-9.4	1.04 V	345	50.2	8.6
2	*5775.00	108.3 PK			1.04 V	345	100.3	8.0
3	*5775.00	97.6 AV			1.04 V	345	89.6	8.0
4	#5937.12	60.1 PK	68.2	-8.1	1.04 V	345	51.8	8.3
5	11550.00	57.9 PK	74.0	-16.1	1.87 V	346	40.5	17.4
6	11550.00	46.4 AV	54.0	-7.6	1.87 V	346	29.0	17.4

Remarks:

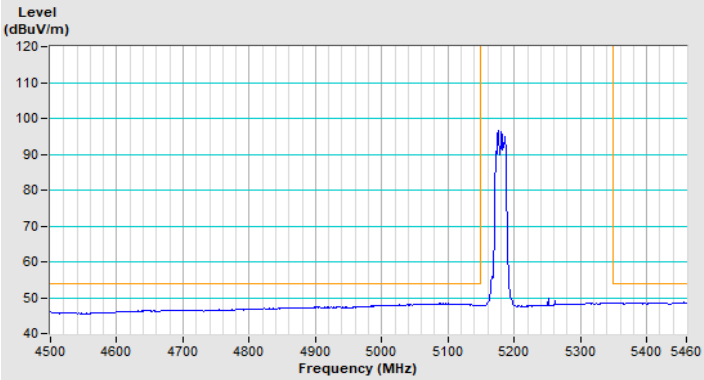
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

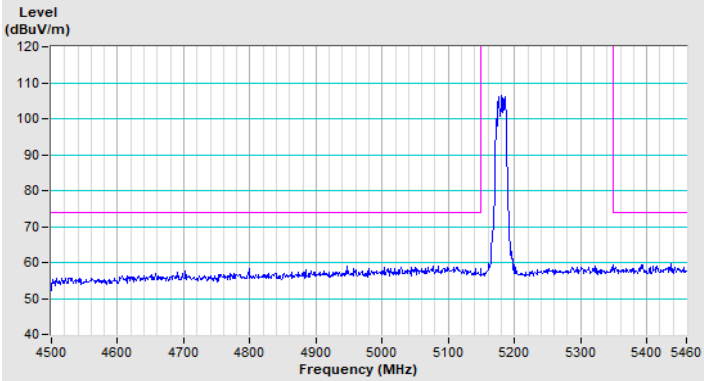
802.11a Channel 36



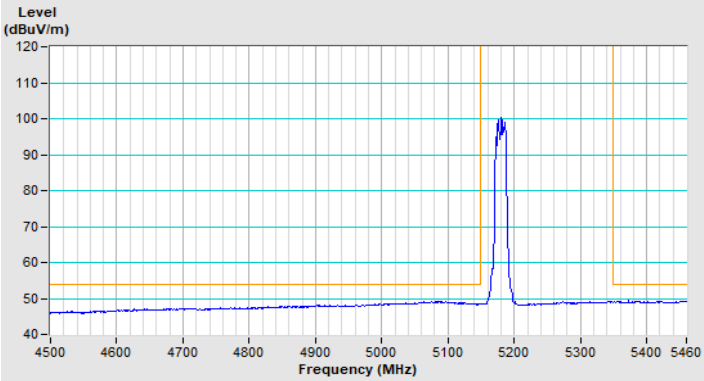
Horizontal (Peak)



Horizontal (Average)

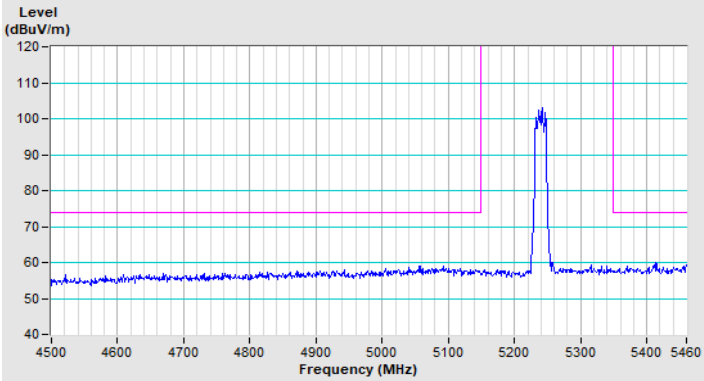


Vertical (Peak)



Vertical (Average)

802.11a Channel 48



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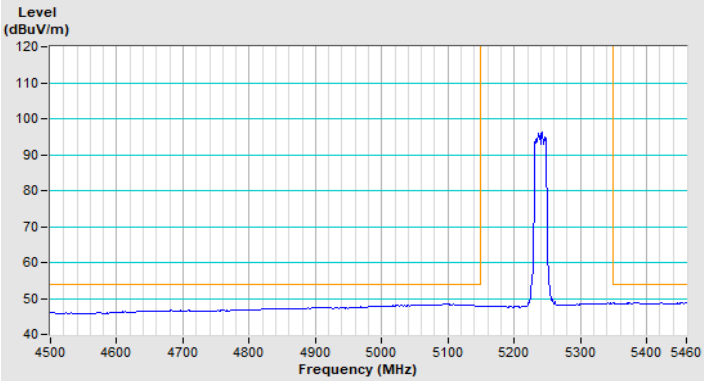
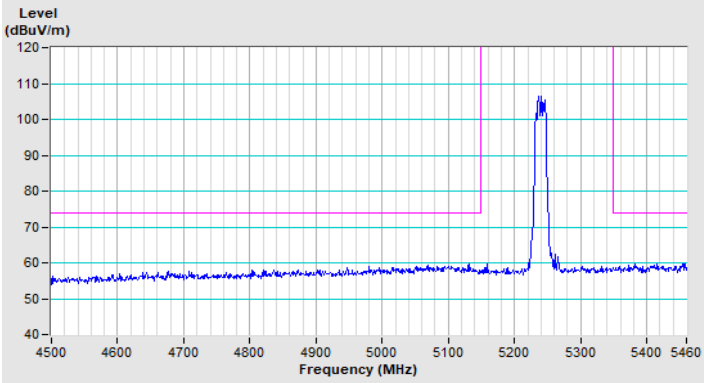
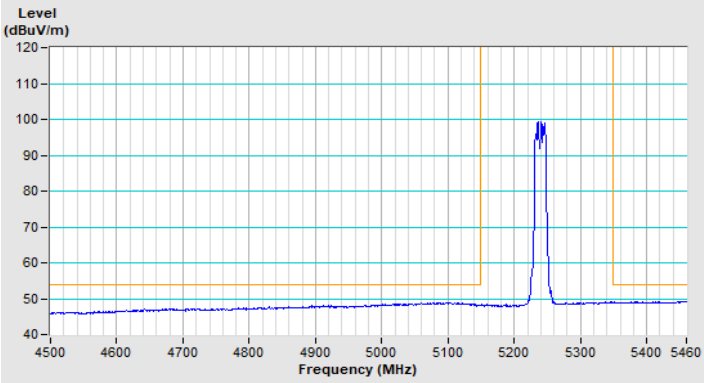


Horizontal (Average)

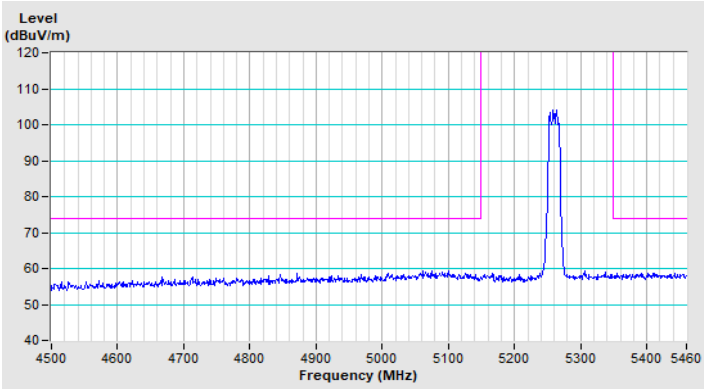


Vertical (Peak)

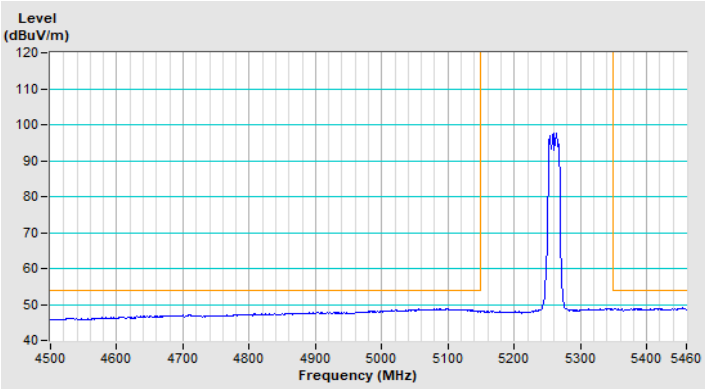


Vertical (Average)

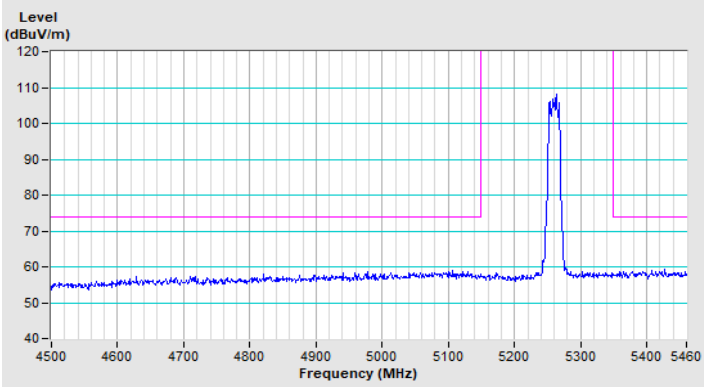
802.11a Channel 52



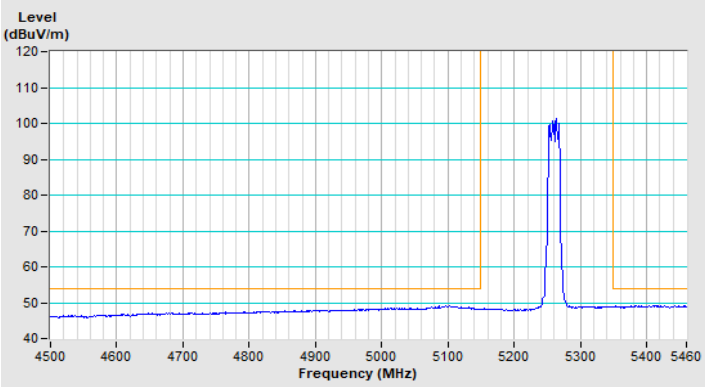
Horizontal (Peak)



Horizontal (Average)

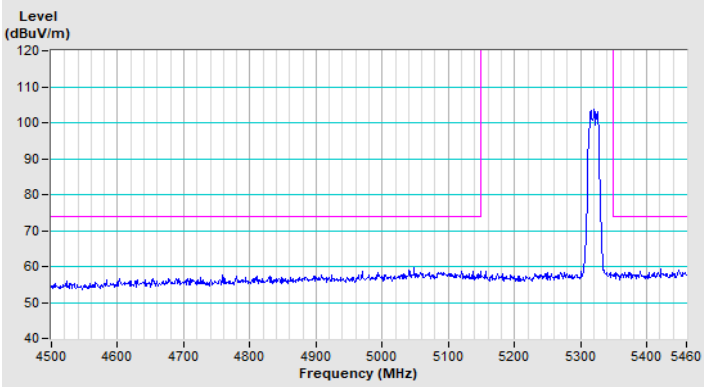


Vertical (Peak)

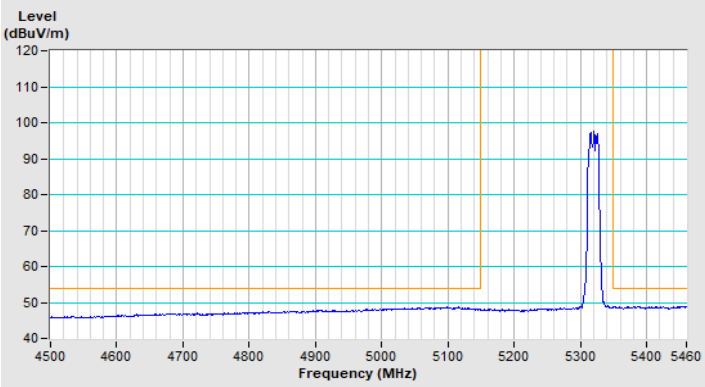


Vertical (Average)

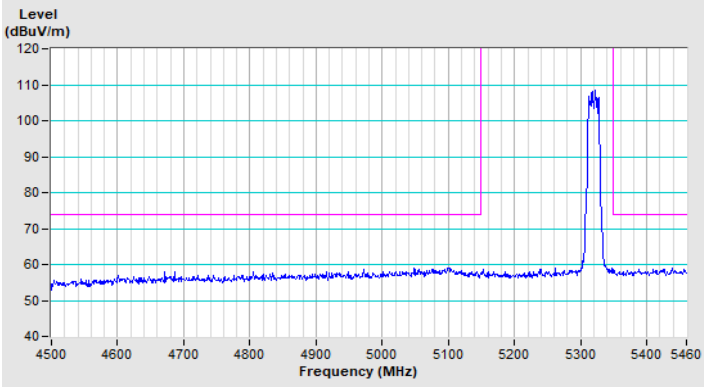
802.11a Channel 64



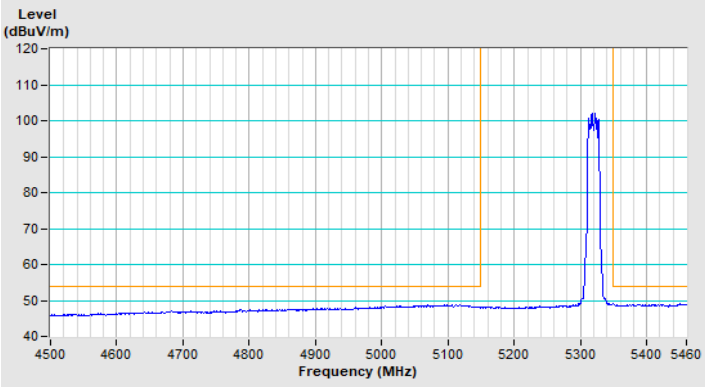
Horizontal (Peak)



Horizontal (Average)

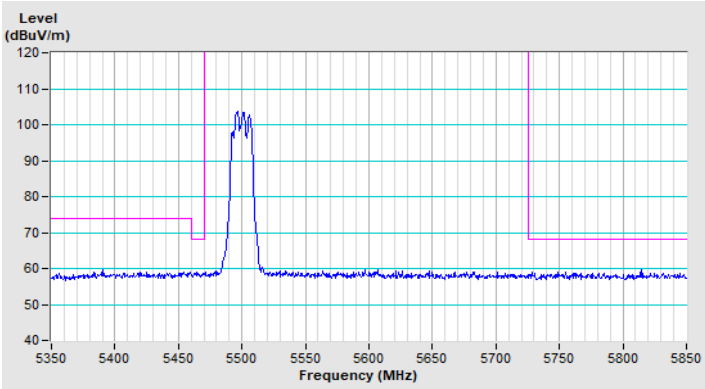


Vertical (Peak)

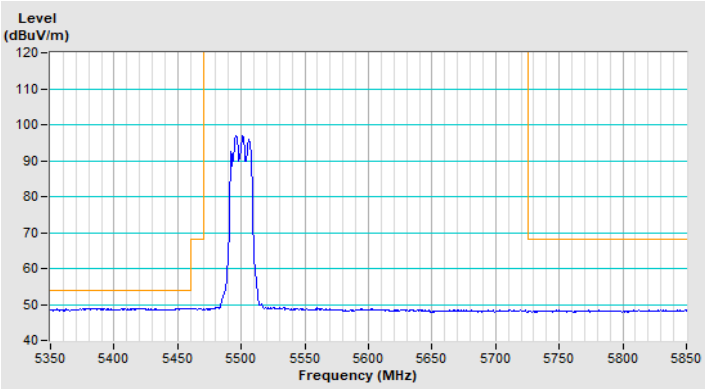


Vertical (Average)

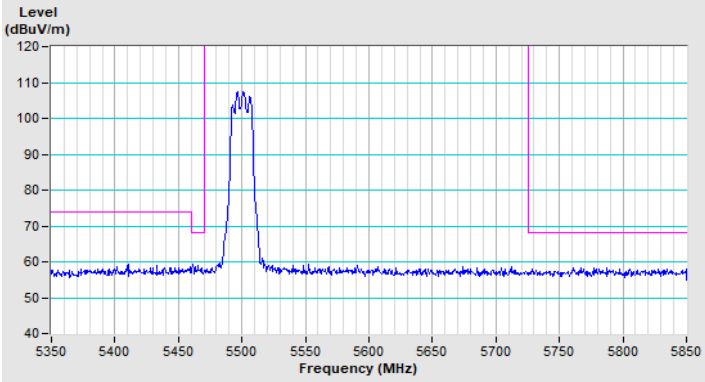
802.11a Channel 100



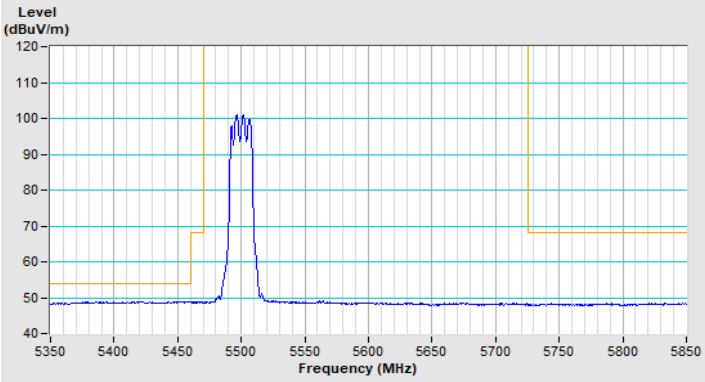
Horizontal (Peak)



Horizontal (Average)

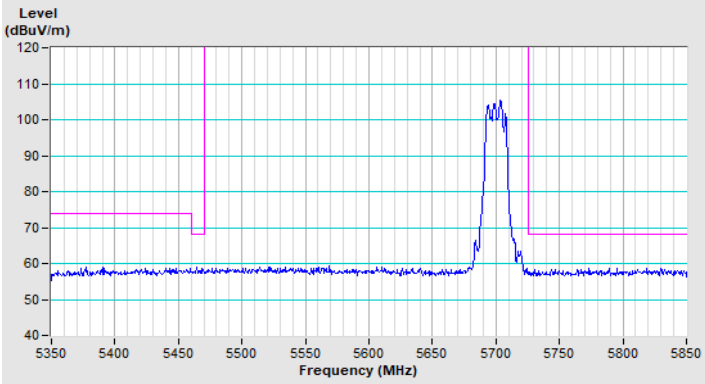


Vertical (Peak)

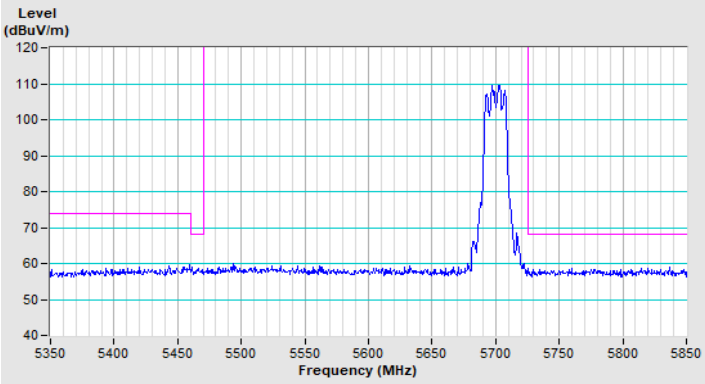


Vertical (Average)

802.11a Channel 140

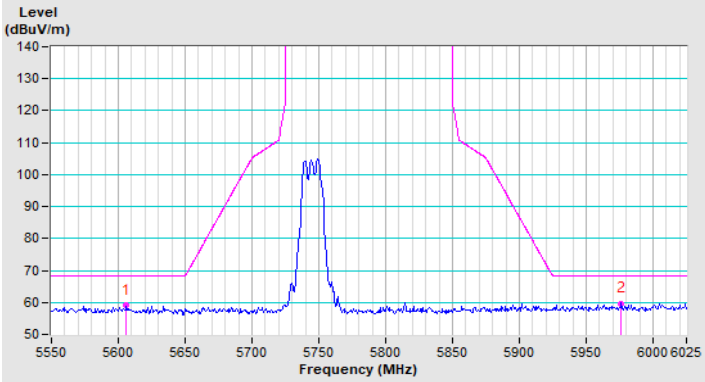


Horizontal (Peak)

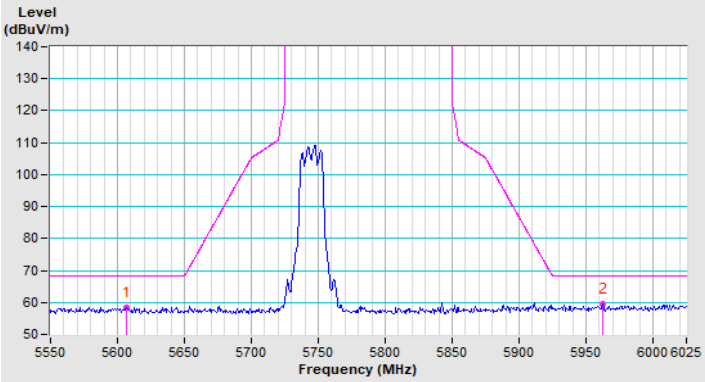


Vertical (Peak)

802.11a Channel 149

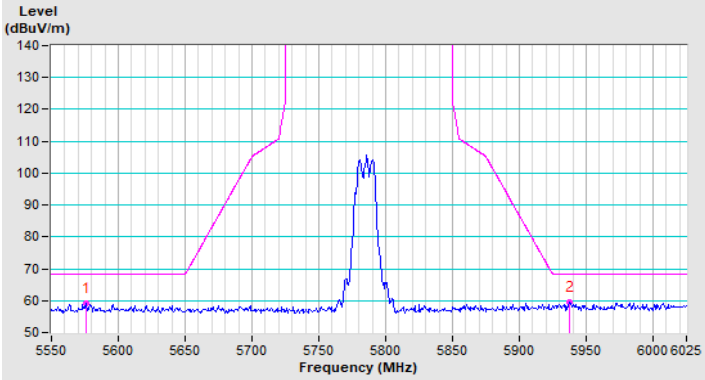


Horizontal (Peak)

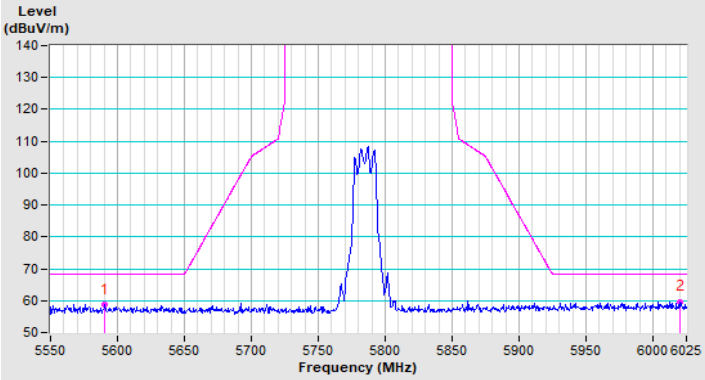


Vertical (Peak)

802.11a Channel 157

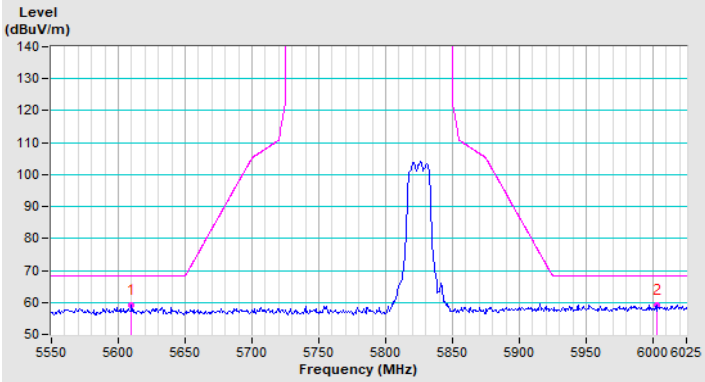


Horizontal (Peak)

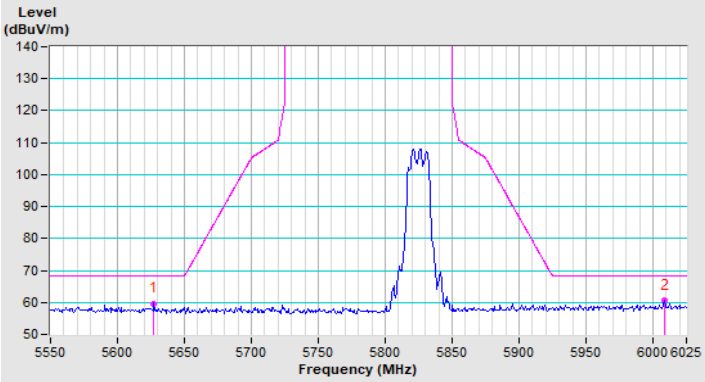


Vertical (Peak)

802.11a Channel 165

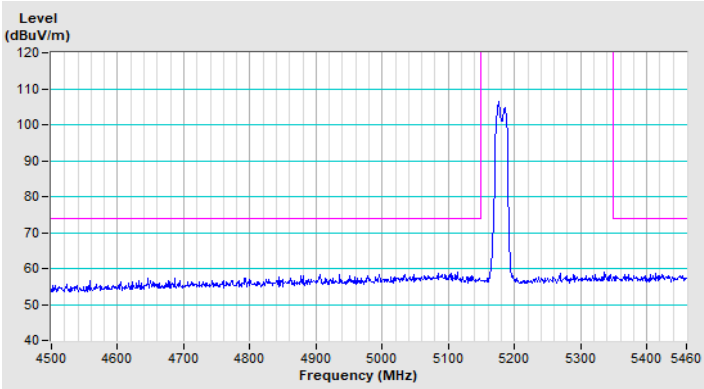


Horizontal (Peak)

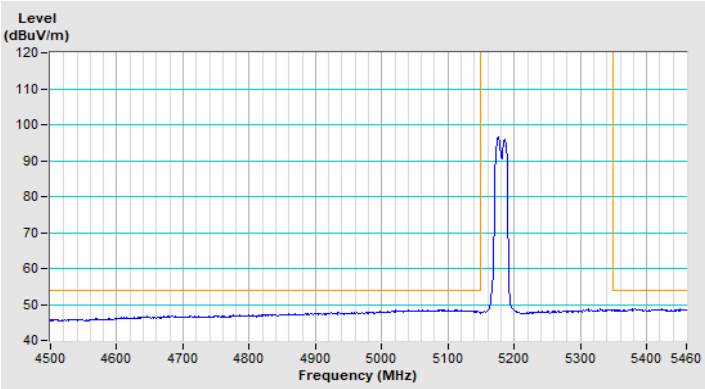


Vertical (Peak)

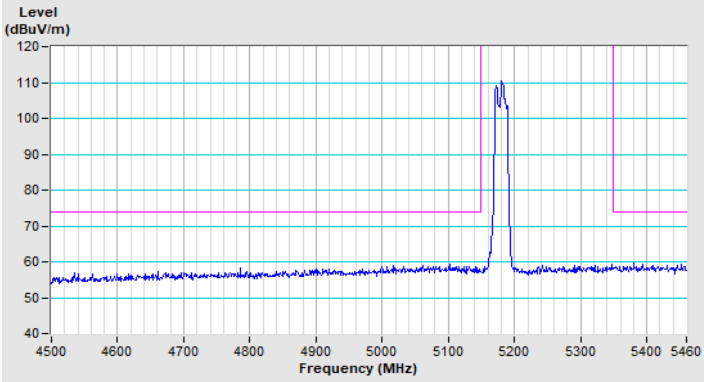
802.11ax (HE20) Channel 36



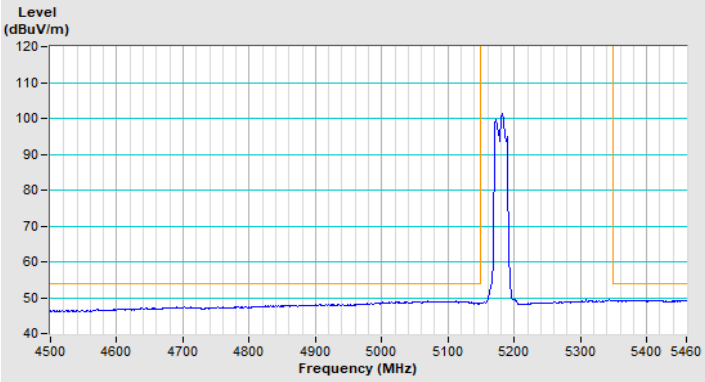
Horizontal (Peak)



Horizontal (Average)

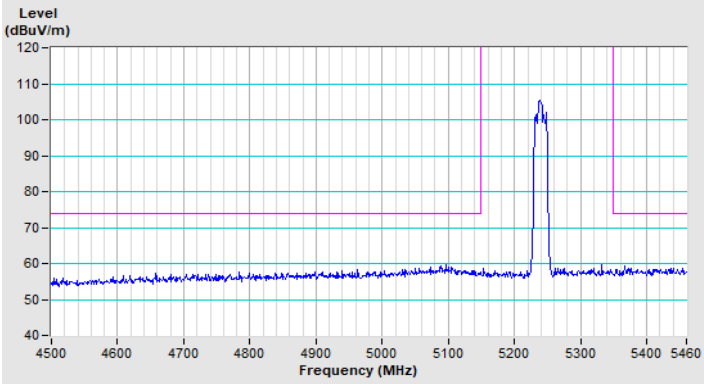


Vertical (Peak)

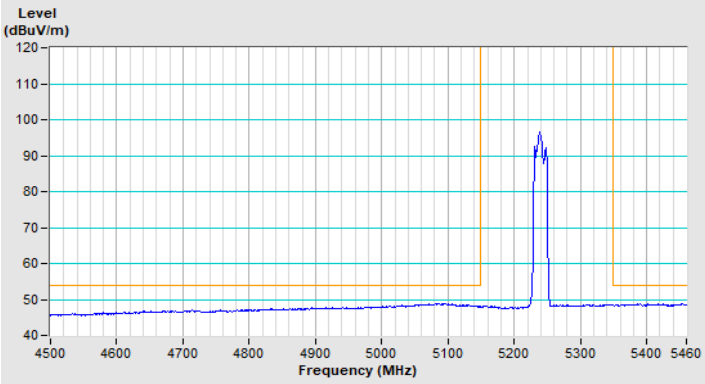


Vertical (Average)

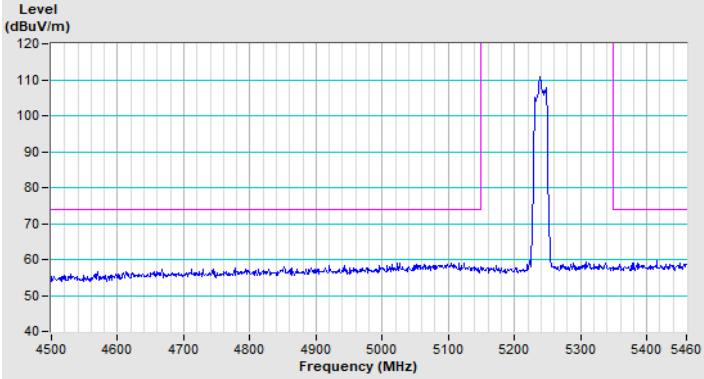
802.11ax (HE20) Channel 48



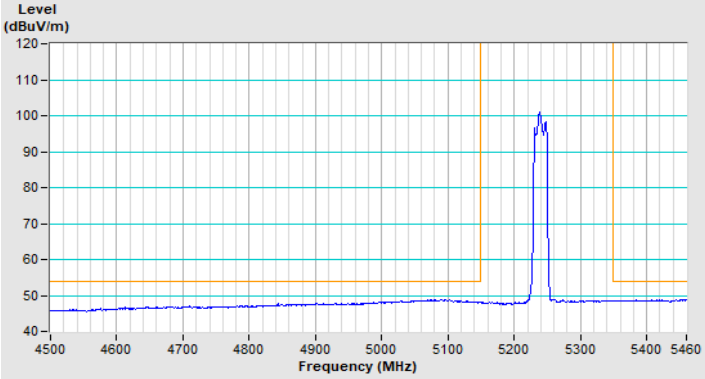
Horizontal (Peak)



Horizontal (Average)

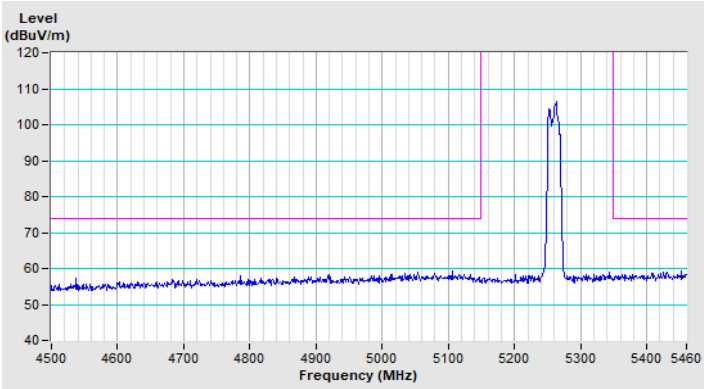


Vertical (Peak)

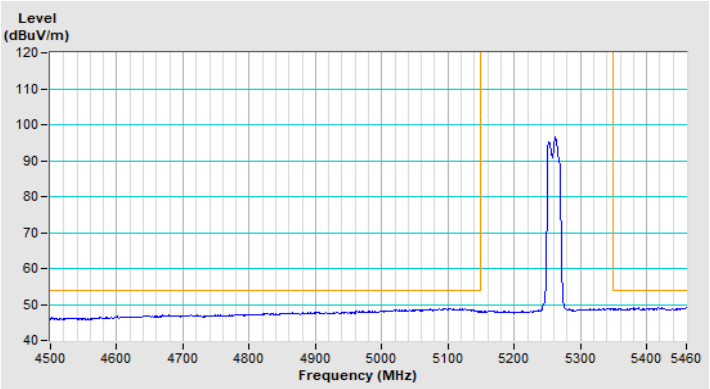


Vertical (Average)

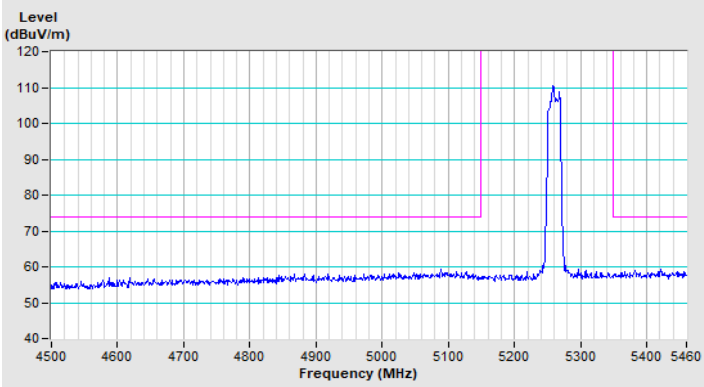
802.11ax (HE20) Channel 52



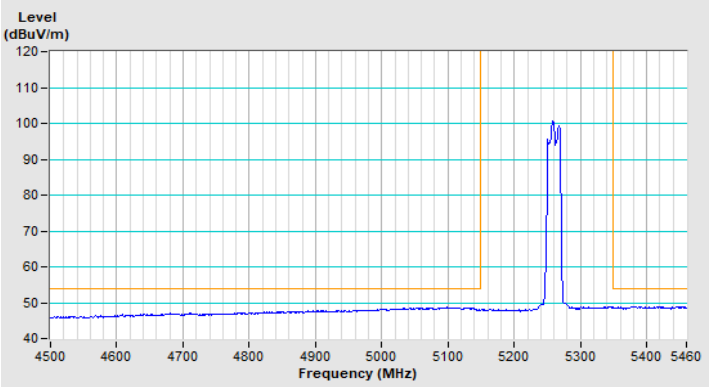
Horizontal (Peak)



Horizontal (Average)

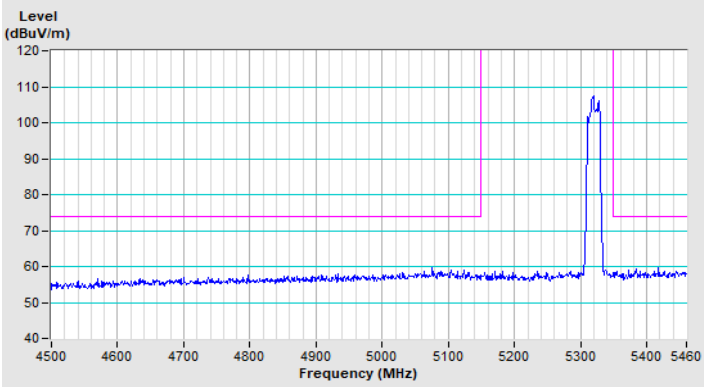


Vertical (Peak)

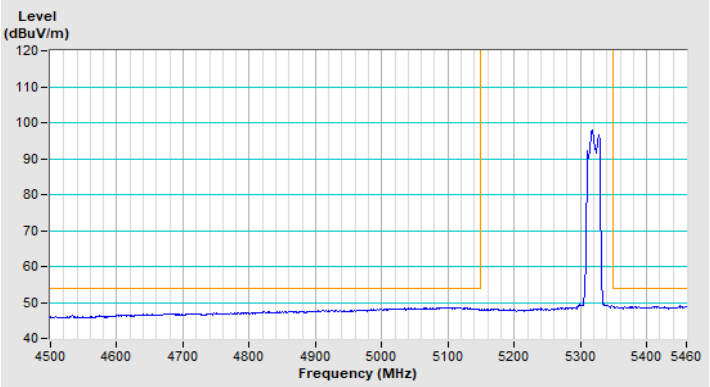


Vertical (Average)

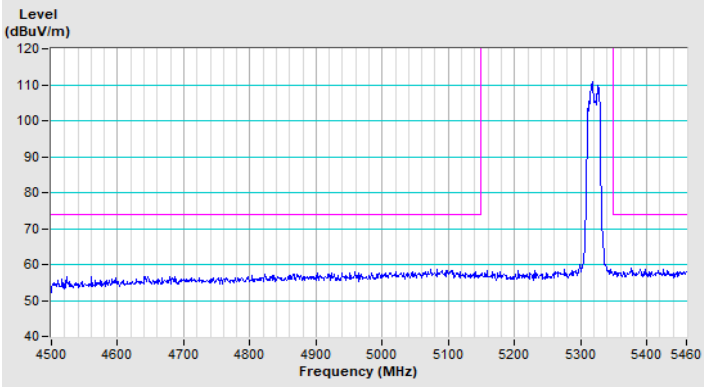
802.11ax (HE20) Channel 64



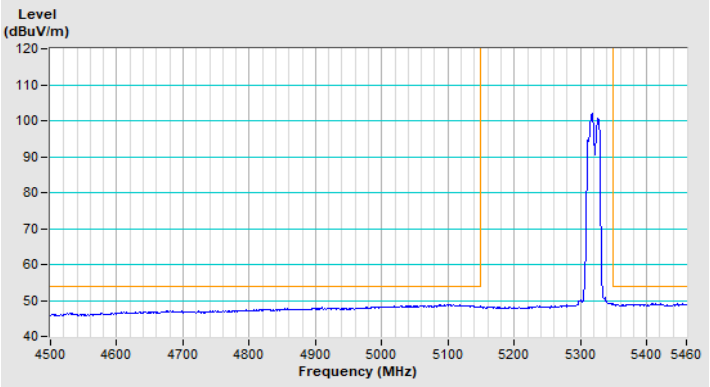
Horizontal (Peak)



Horizontal (Average)

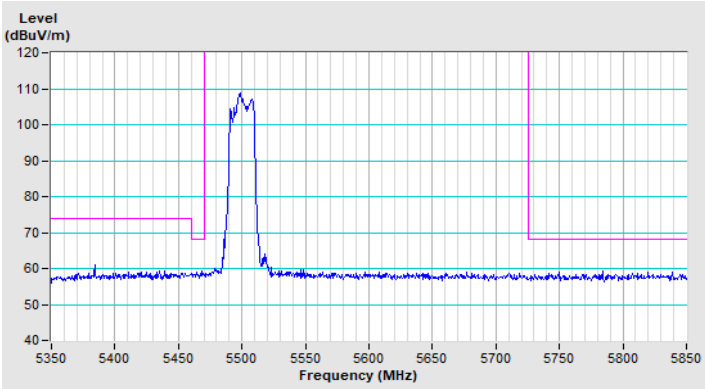


Vertical (Peak)

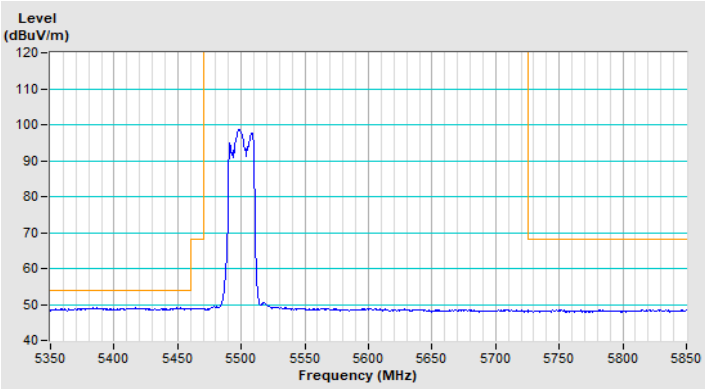


Vertical (Average)

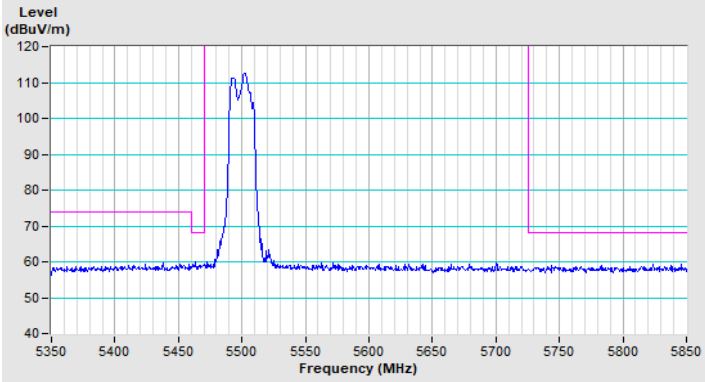
802.11ax (HE20) Channel 100



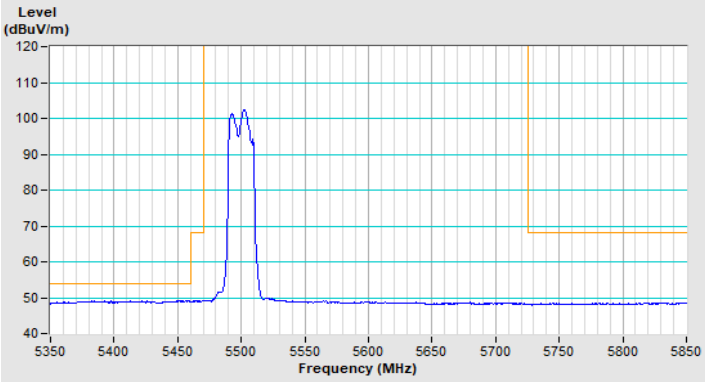
Horizontal (Peak)



Horizontal (Average)

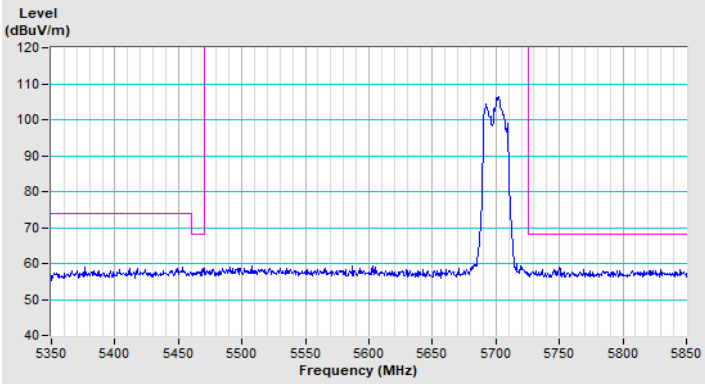


Vertical (Peak)

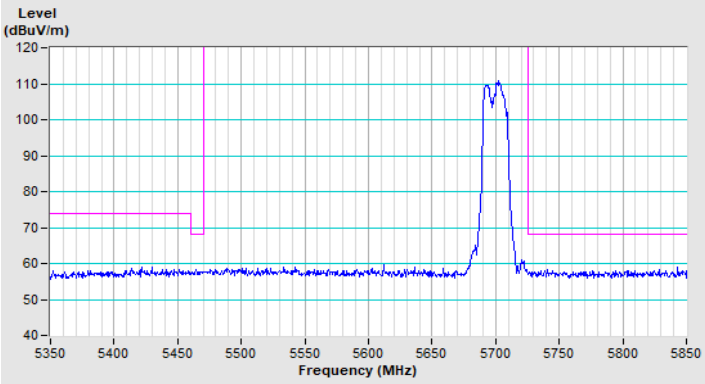


Vertical (Average)

802.11ax (HE20) Channel 140

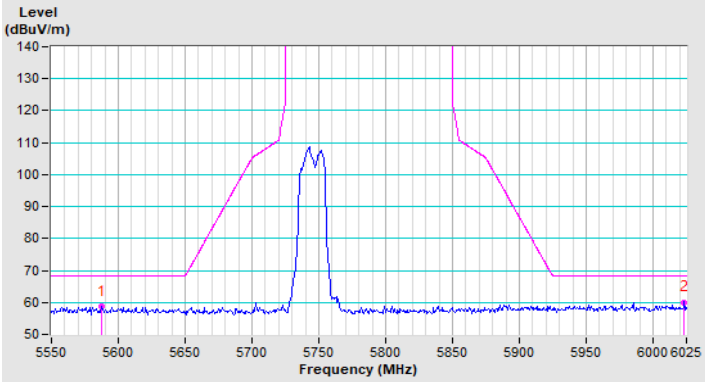


Horizontal (Peak)

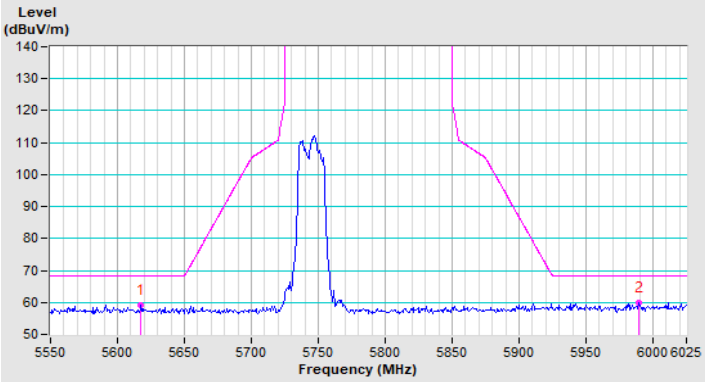


Vertical (Peak)

802.11ax (HE20) Channel 149

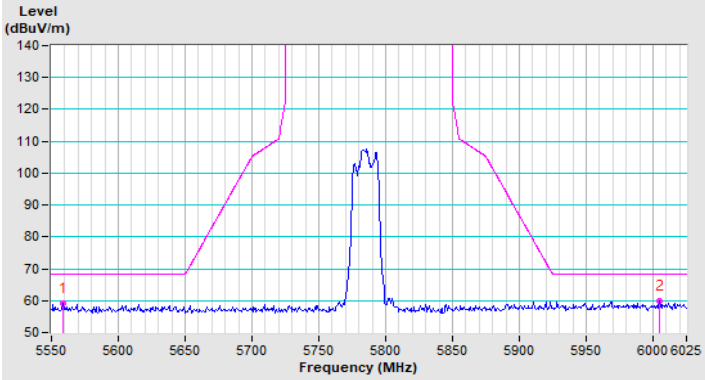


Horizontal (Peak)

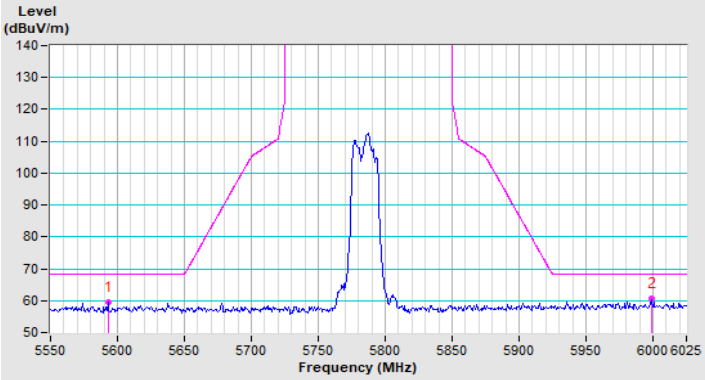


Vertical (Peak)

802.11ax (HE20) Channel 157

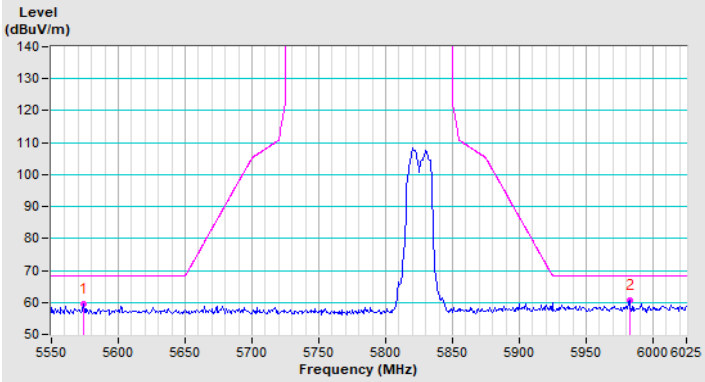


Horizontal (Peak)

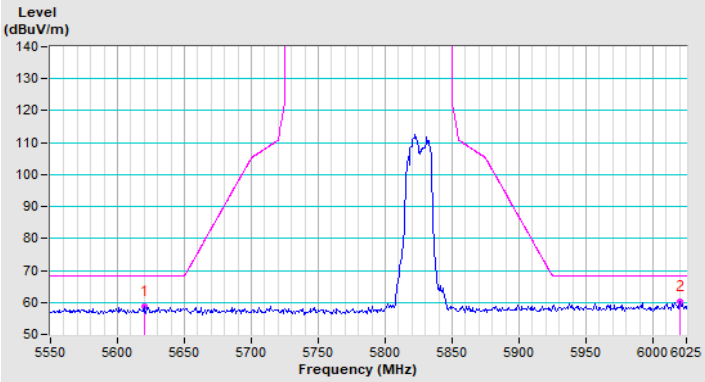


Vertical (Peak)

802.11ax (HE20) Channel 165

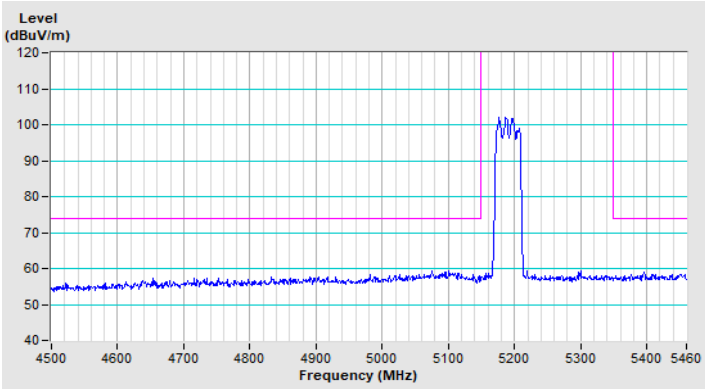


Horizontal (Peak)

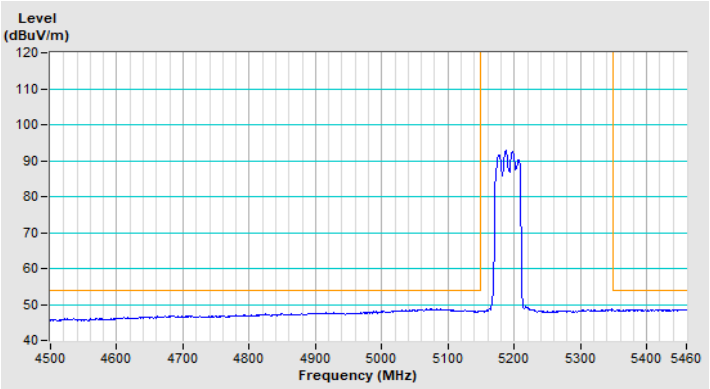


Vertical (Peak)

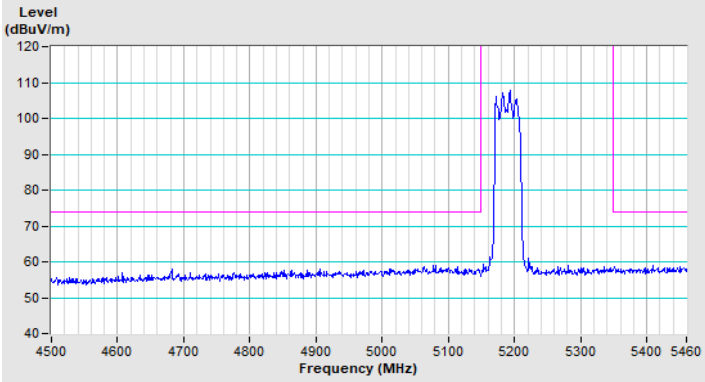
802.11ax (HE40) Channel 38



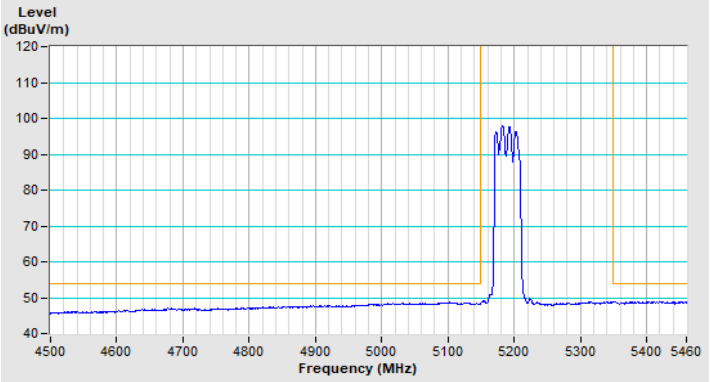
Horizontal (Peak)



Horizontal (Average)

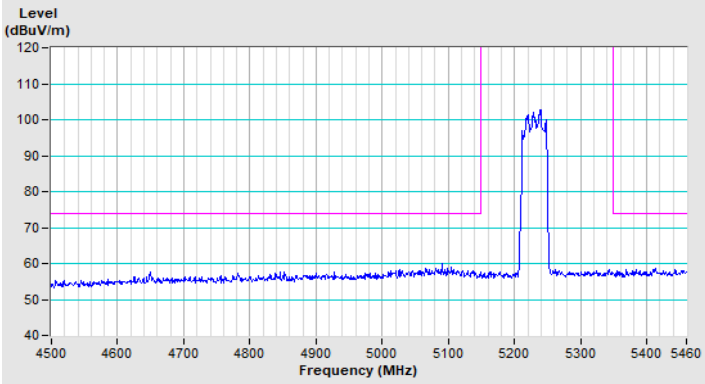


Vertical (Peak)

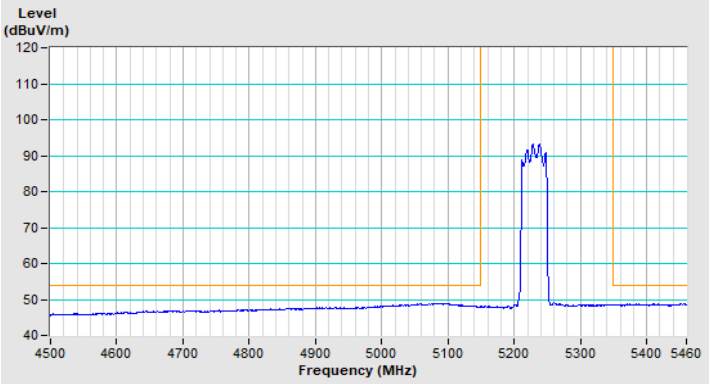


Vertical (Average)

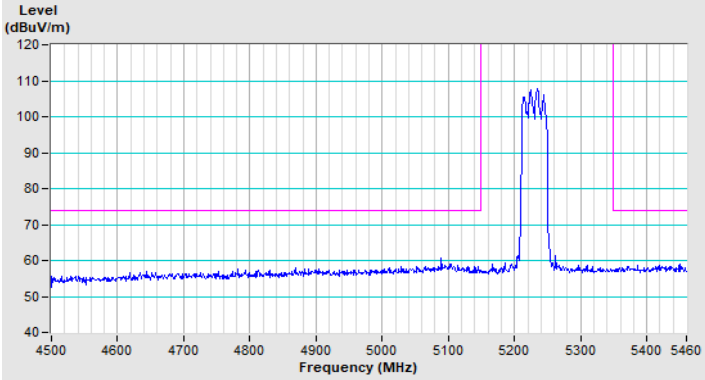
802.11ax (HE40) Channel 46



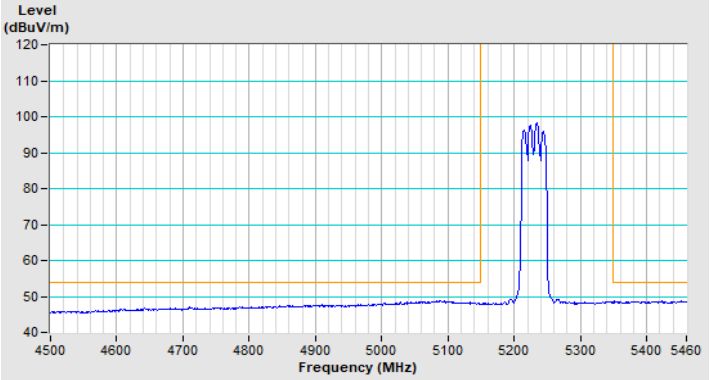
Horizontal (Peak)



Horizontal (Average)

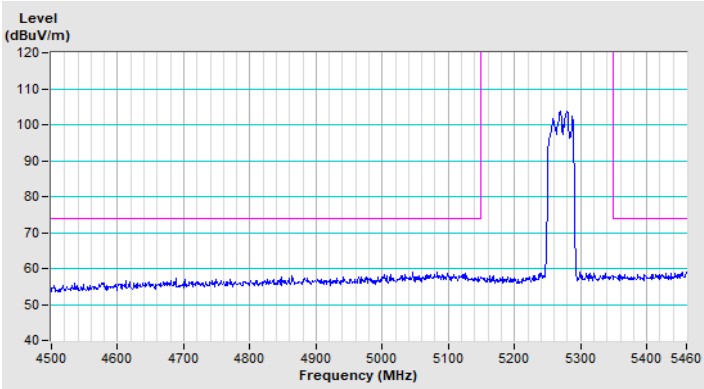


Vertical (Peak)

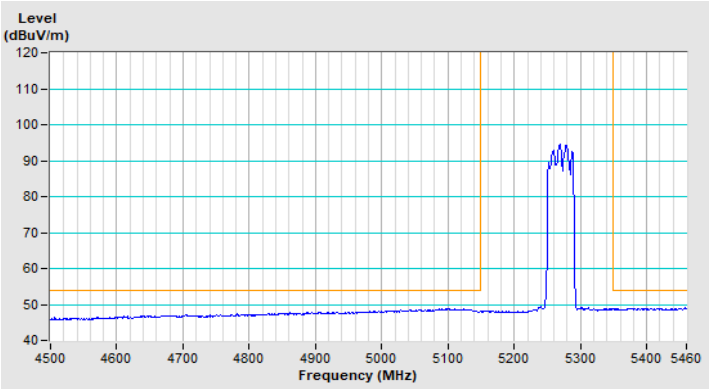


Vertical (Average)

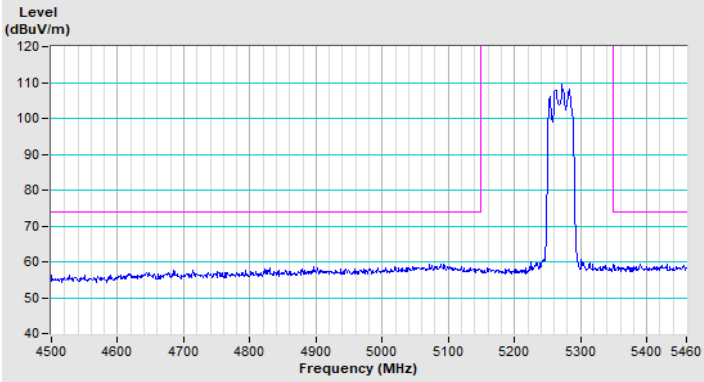
802.11ax (HE40) Channel 54



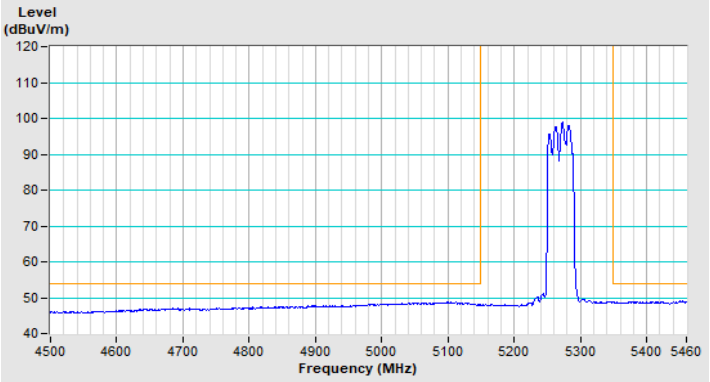
Horizontal (Peak)



Horizontal (Average)

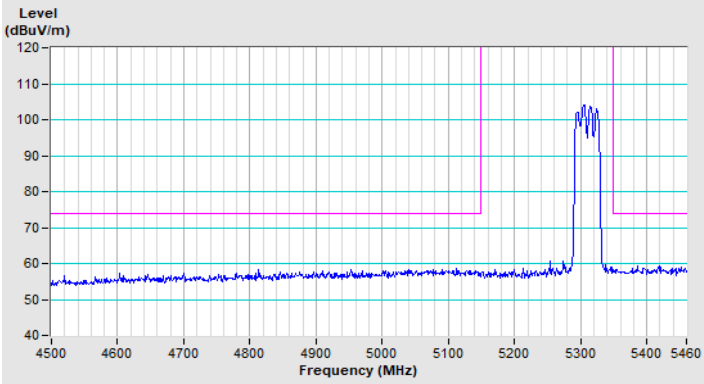


Vertical (Peak)

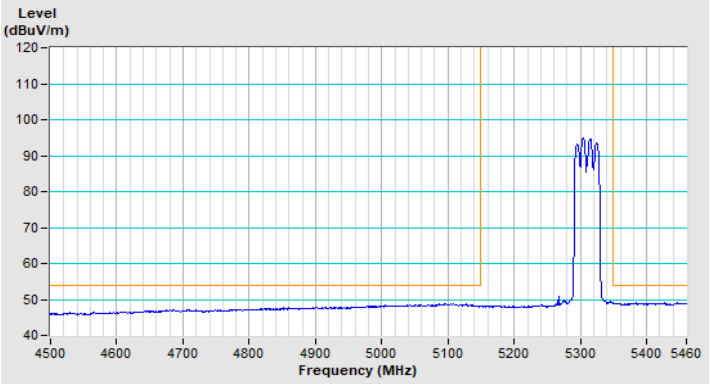


Vertical (Average)

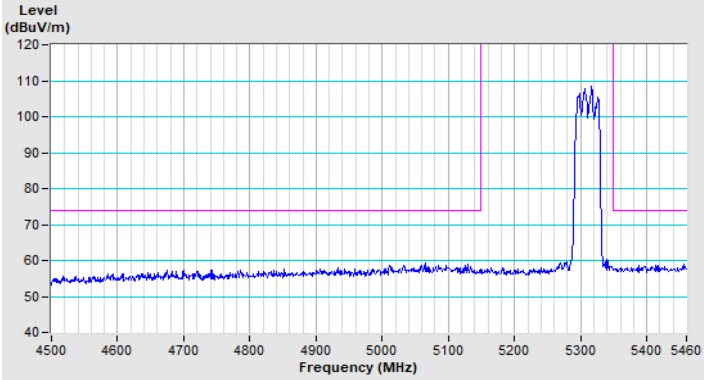
802.11ax (HE40) Channel 62



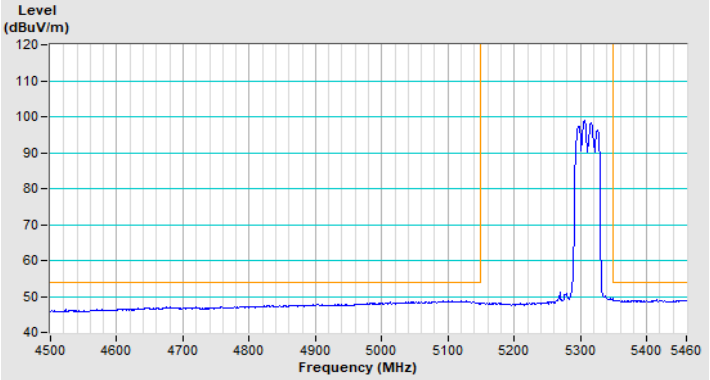
Horizontal (Peak)



Horizontal (Average)

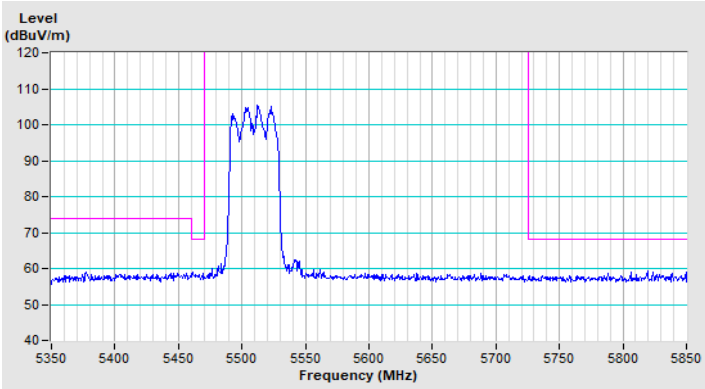


Vertical (Peak)

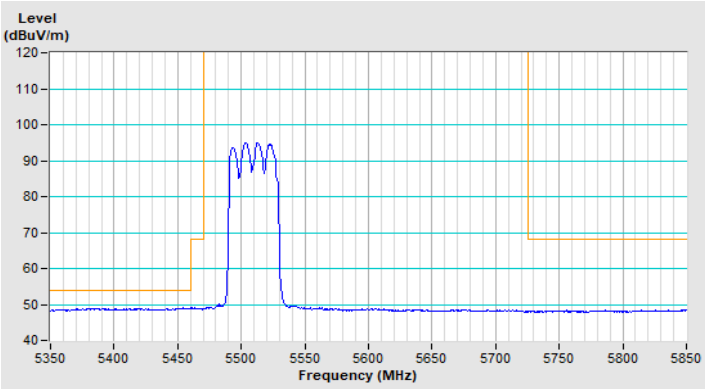


Vertical (Average)

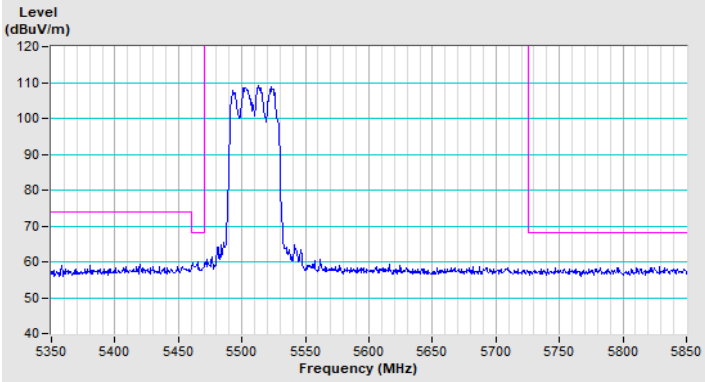
802.11ax (HE40) Channel 102



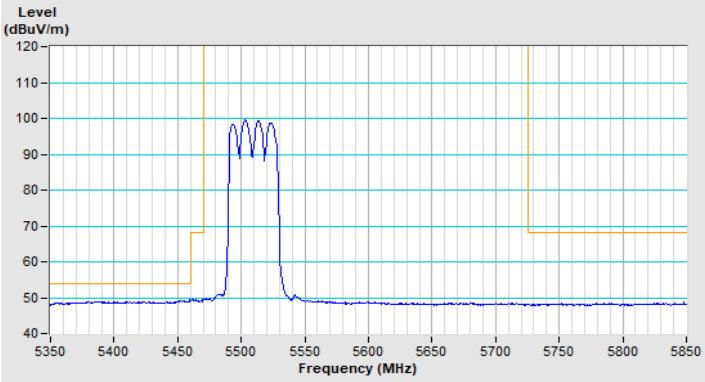
Horizontal (Peak)



Horizontal (Average)

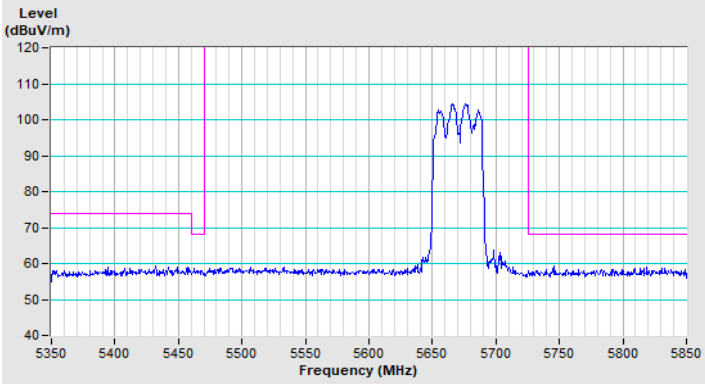


Vertical (Peak)

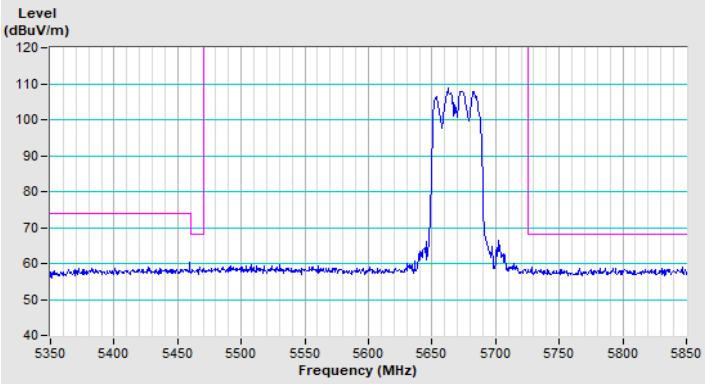


Vertical (Average)

802.11ax (HE40) Channel 134

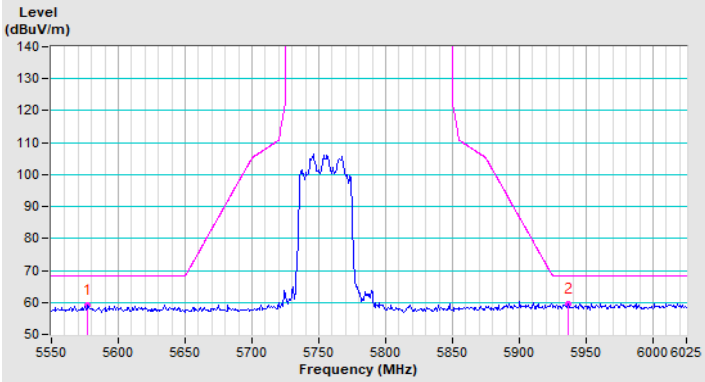


Horizontal (Peak)



Vertical (Peak)

802.11ax (HE40) Channel 151



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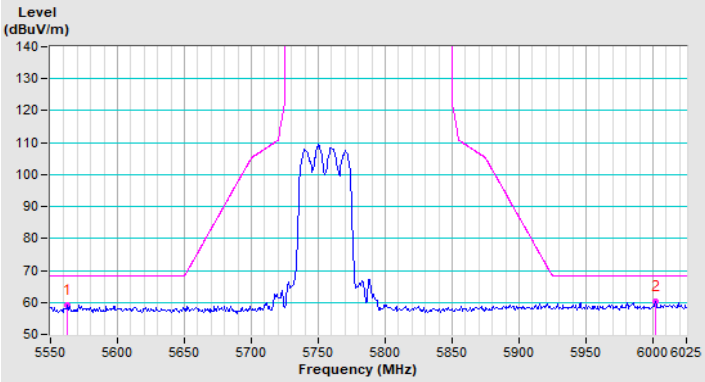
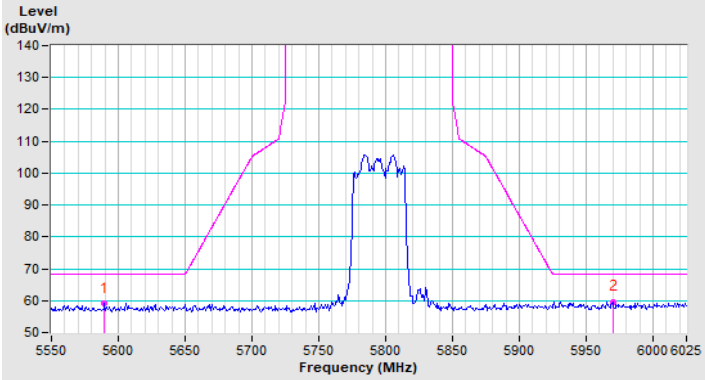
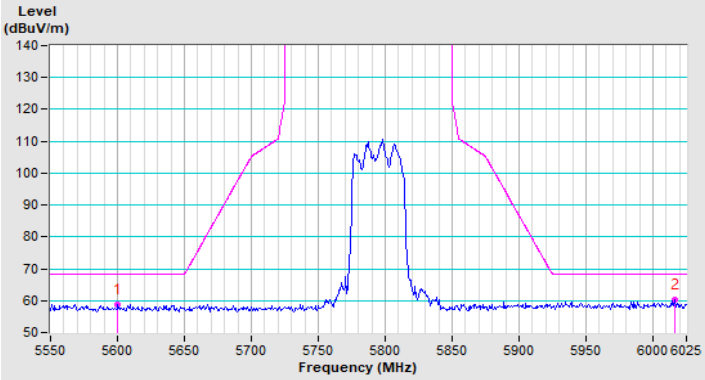


Vertical (Peak)

802.11ax (HE40) Channel 159

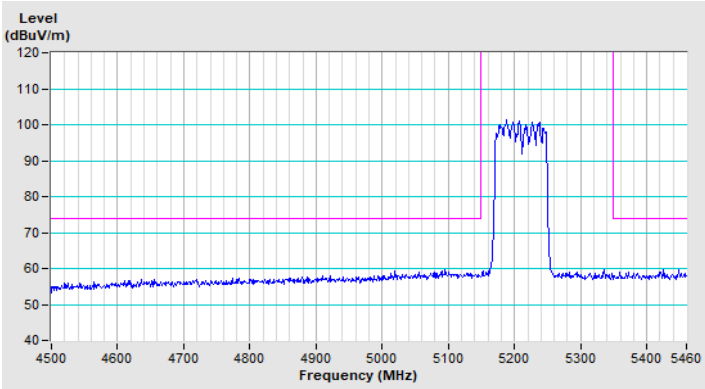


Horizontal (Peak)

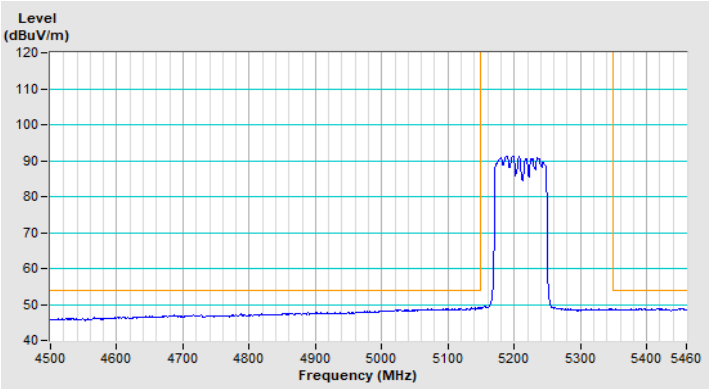


Vertical (Peak)

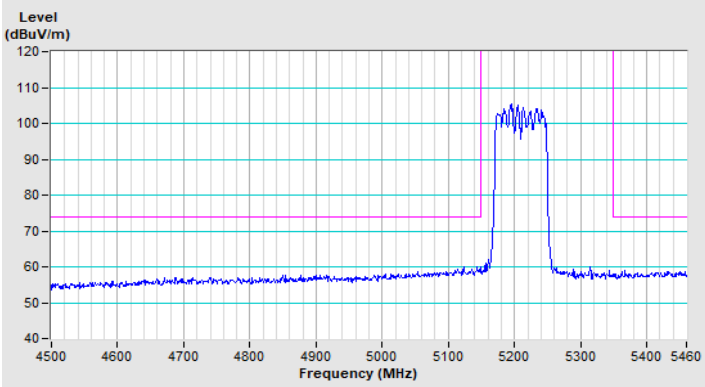
802.11ax (HE80) Channel 42



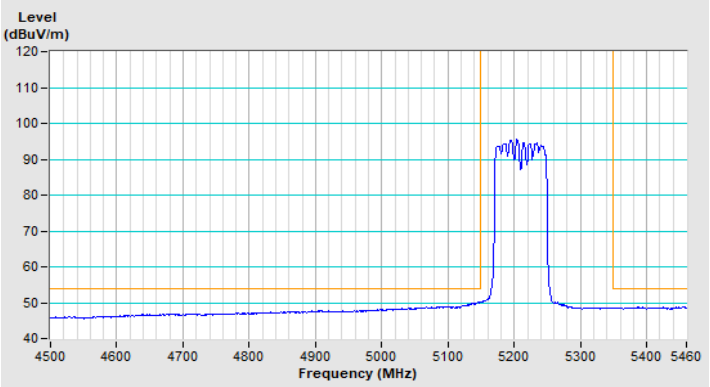
Horizontal (Peak)



Horizontal (Average)

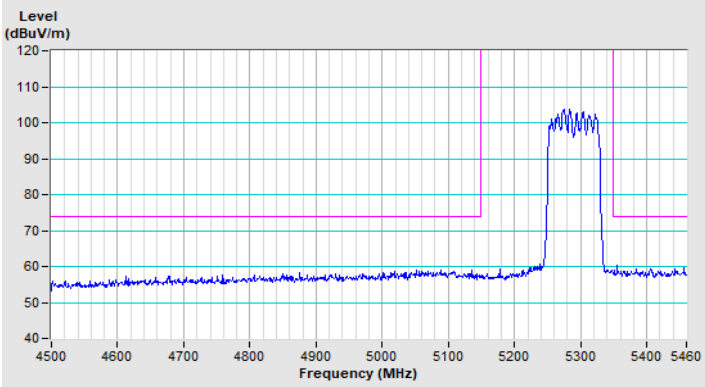


Vertical (Peak)

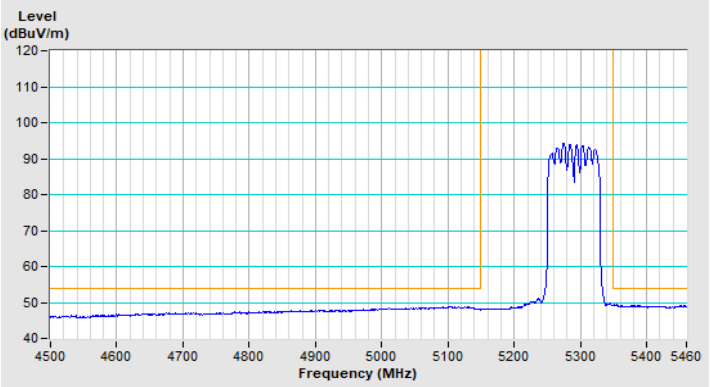


Vertical (Average)

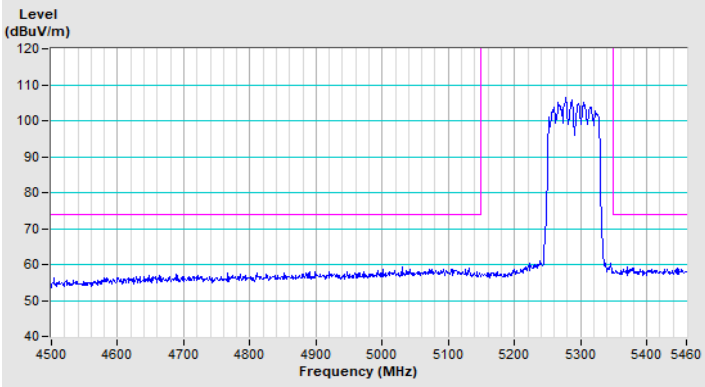
802.11ax (HE80) Channel 58



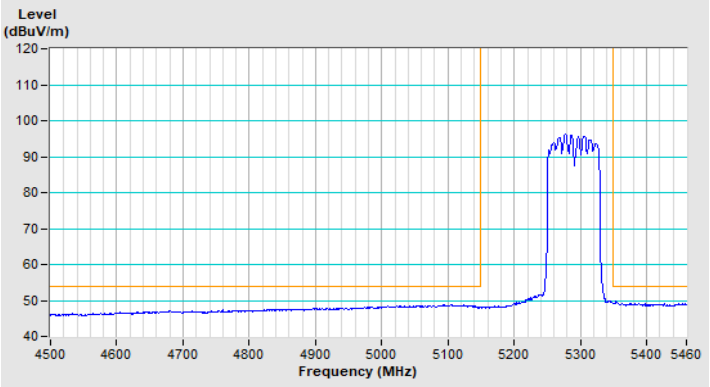
Horizontal (Peak)



Horizontal (Average)

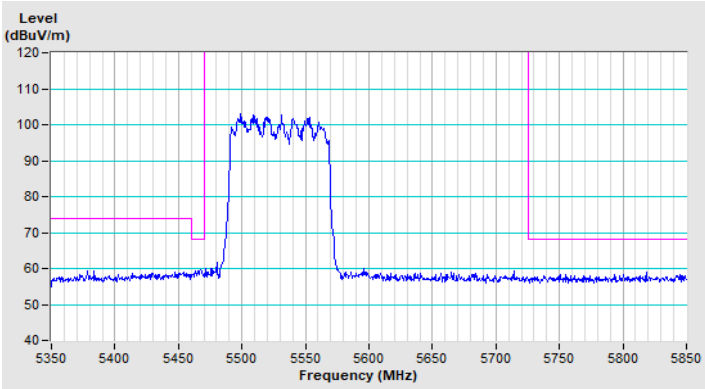


Vertical (Peak)

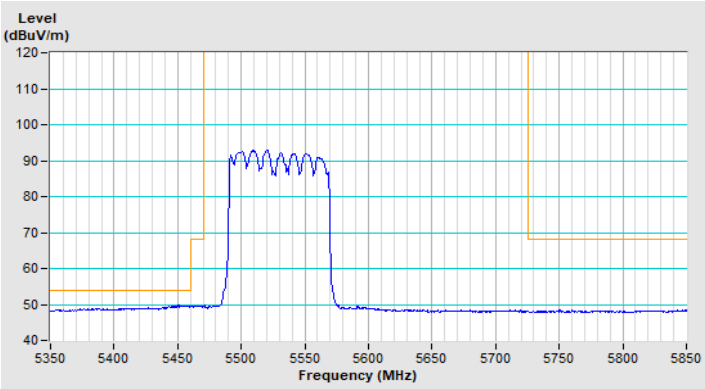


Vertical (Average)

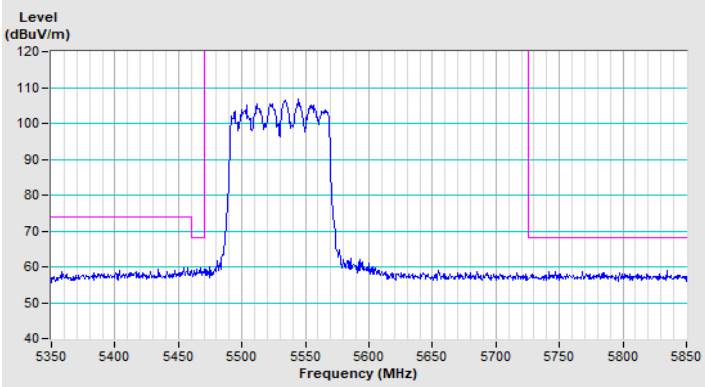
802.11ax (HE80) Channel 106



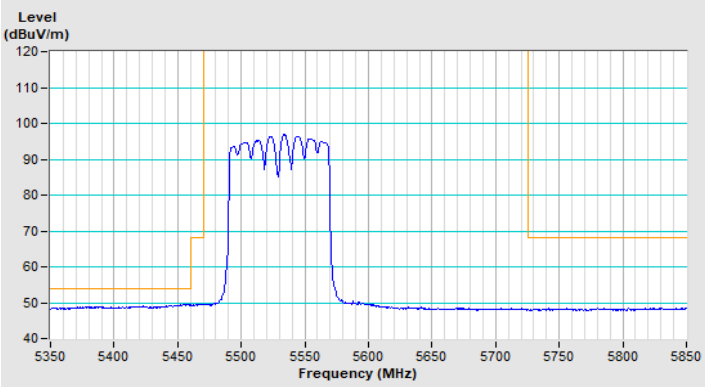
Horizontal (Peak)



Horizontal (Average)

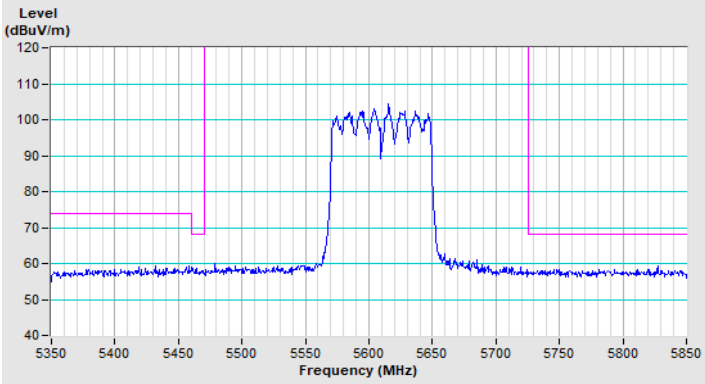


Vertical (Peak)

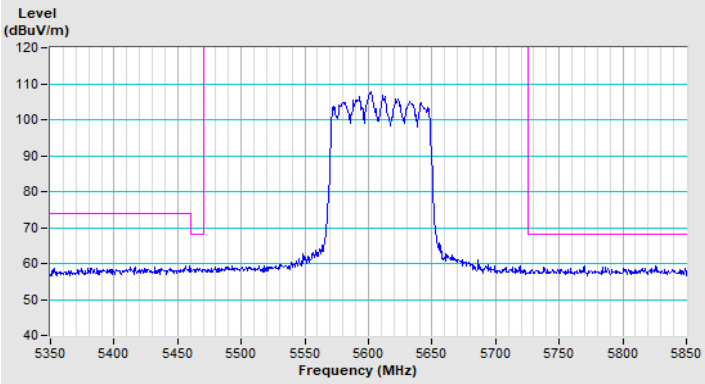


Vertical (Average)

802.11ax (HE80) Channel 122

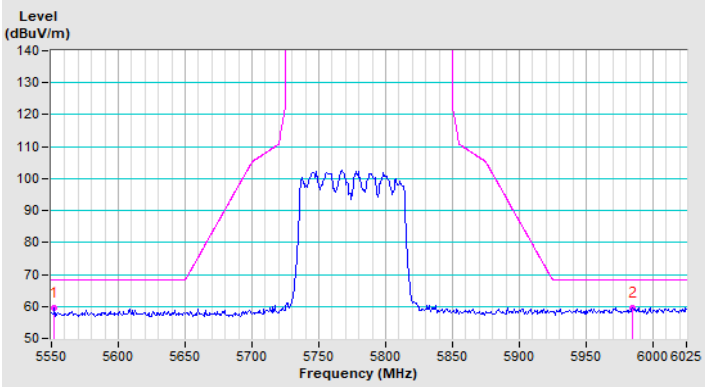


Horizontal (Peak)

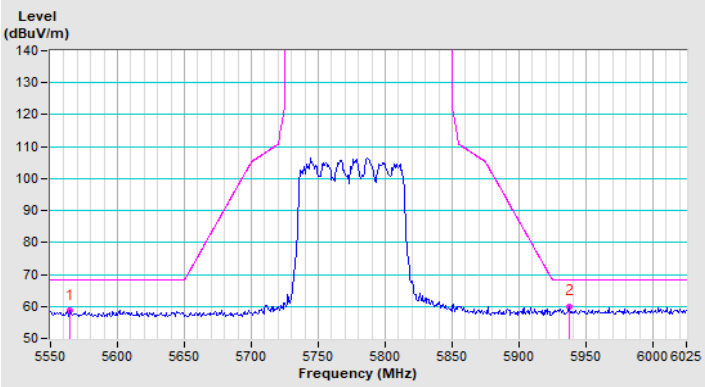


Vertical (Peak)

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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