TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIU-WTW-P23120563-1

FCC ID: 2AUS4-NFK1

Product: Video conferencing device

Model No.: NF-K1

Received Date: 2023/12/22

Test Date: 2024/1/9 ~ 2024/4/24

Issued Date: 2024/7/3

Applicant: Neatframe Limited

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

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Test Location: 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:** 2024/7/3

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-P23120563-1	Original release.	2024/7/3

1 Certificate

Product:	Video conferencing device
Test Model:	NF-K1
Sample Status:	Engineering sample
Applicant:	Neatframe Limited
Test Date:	2024/1/9 ~ 2024/4/24
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	-	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 -19.77 dB at 0.16096 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.2 dB at 58.36 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.9 dB at 11440.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The “Dynamic Frequency Selection measurement” was recorded in DFS test report.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	960 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	960 Hz
Occupied Bandwidth	-	960 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.85 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	3.06 dB
	6 GHz ~ 18 GHz	3.06 dB
	18 GHz ~ 40 GHz	3.29 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
Test Model	NF-K1
Status of EUT	Engineering sample
Power Supply Rating	100-240Vac, 50/60Hz
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz, 5.26 GHz ~ 5.32 GHz, 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 116.633 mW (20.67 dBm) 5.26 GHz ~ 5.32 GHz : 119.658 mW (20.78 dBm) 5.5 GHz ~ 5.72 GHz : 127.019 mW (21.04 dBm) 5.745 GHz ~ 5.825 GHz : 134.496 mW (21.29 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
Touch Pen	neat.	NF-H2	-
Power Cable (Table-top)	-	-	Non-shielded without core, 3.0m
Power Cable (Floor standing)	-	-	Non-shielded without core, 4.5m
RJ45 Cable	-	-	Shielded without core, 5.0m

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)	Antenna Type	Connector Type
1	1.09	PIFA	IPEX
2	1.67	PIFA	IPEX
Note: The maximum gain was chosen for test.			

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

2. The EUT incorporates a MIMO function:

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 ~ 5720 MHz

12 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	144	5720 MHz

6 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	142	5710 MHz

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

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

FOR 5745 ~ 5825 MHz:

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

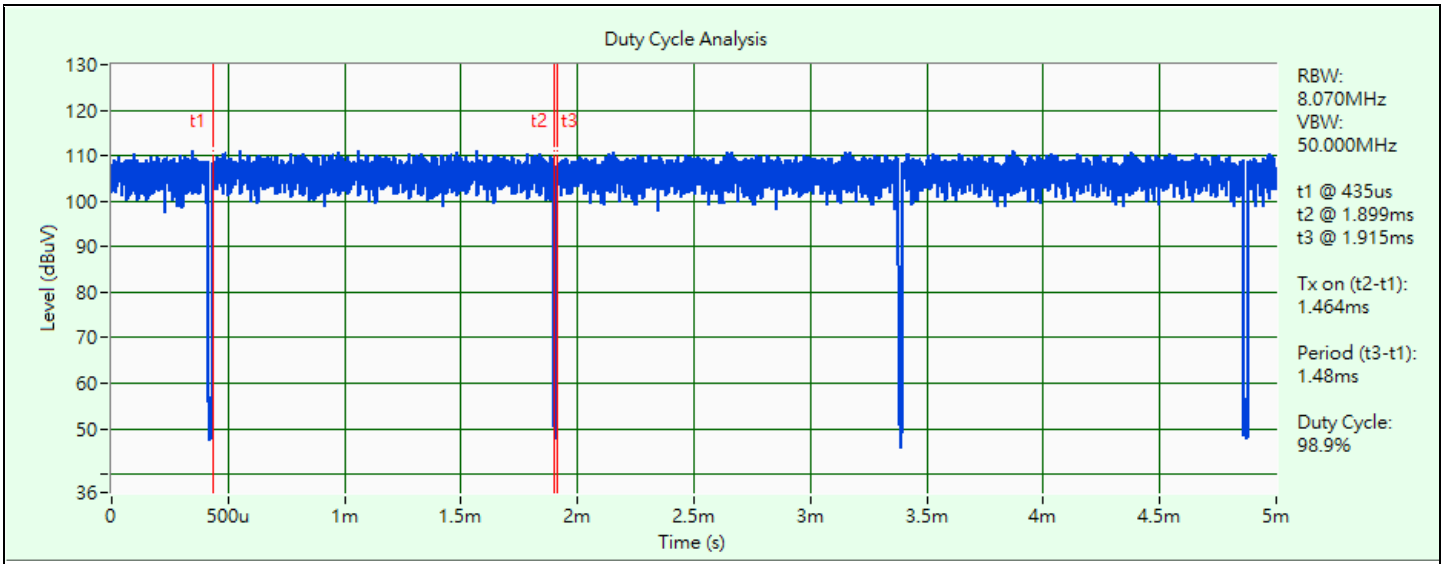
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	CDD	58, 106, 122, 138	BPSK	MCS0
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

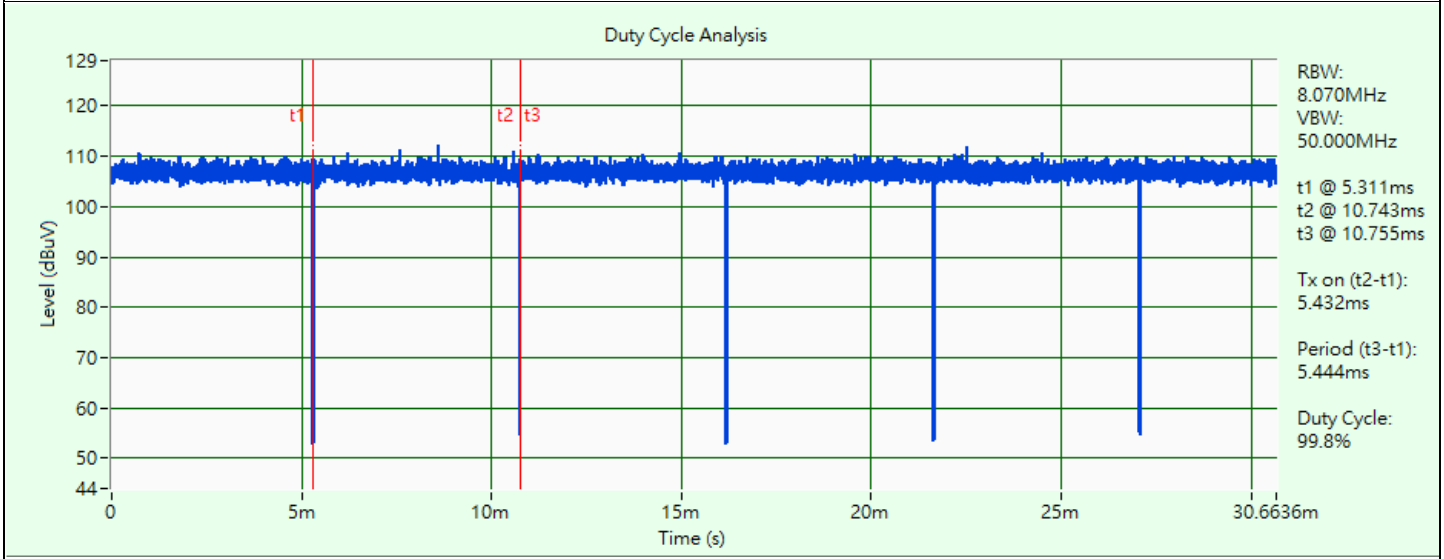
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Frequency Stability	802.11a	-	36	unmodulated	-
AC Power Conducted Emissions	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

3.5 Duty Cycle of Test Signal

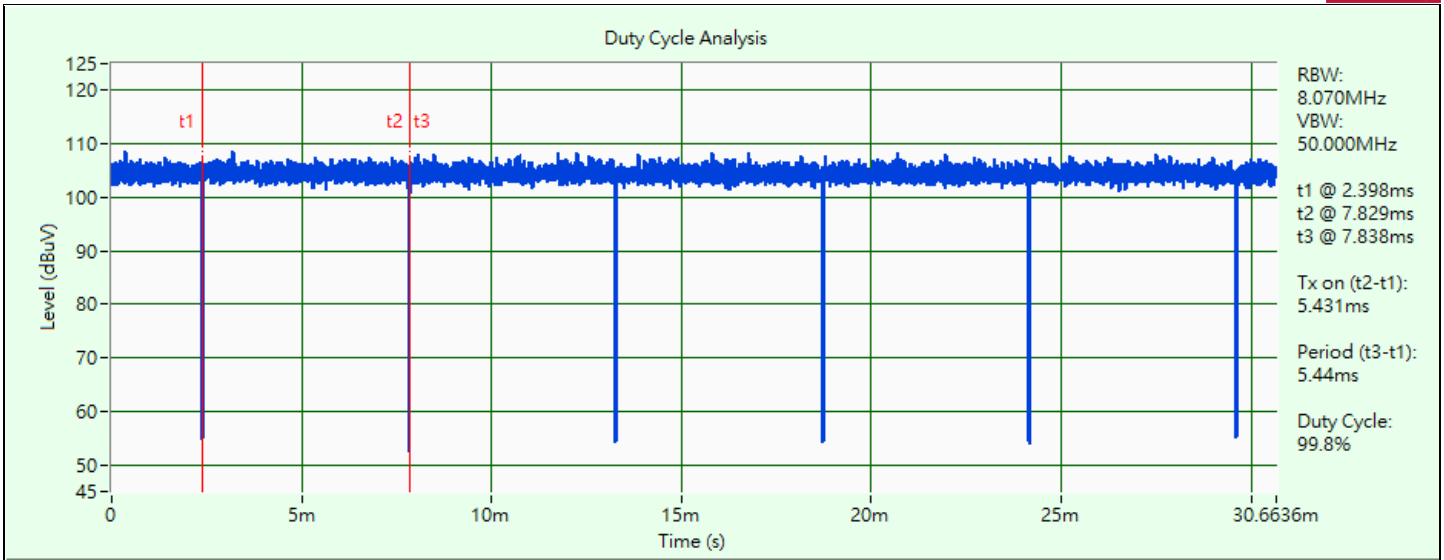
802.11a: Duty cycle = 1.464 ms / 1.48 ms x 100% = 98.9%
802.11ac (VHT20): Duty cycle = 5.432 ms / 5.444 ms x 100% = 99.8%
802.11ac (VHT40): Duty cycle = 5.431 ms / 5.44 ms x 100% = 99.8%
802.11ac (VHT80): Duty cycle = 5.429 ms / 5.441 ms x 100% = 99.8%
802.11ax (HE20): Duty cycle = 5.445 ms / 5.46 ms x 100% = 99.7%
802.11ax (HE40): Duty cycle = 5.448 ms / 5.46 ms x 100% = 99.8%
802.11ax (HE80): Duty cycle = 5.446 ms / 5.458 ms x 100% = 99.8%



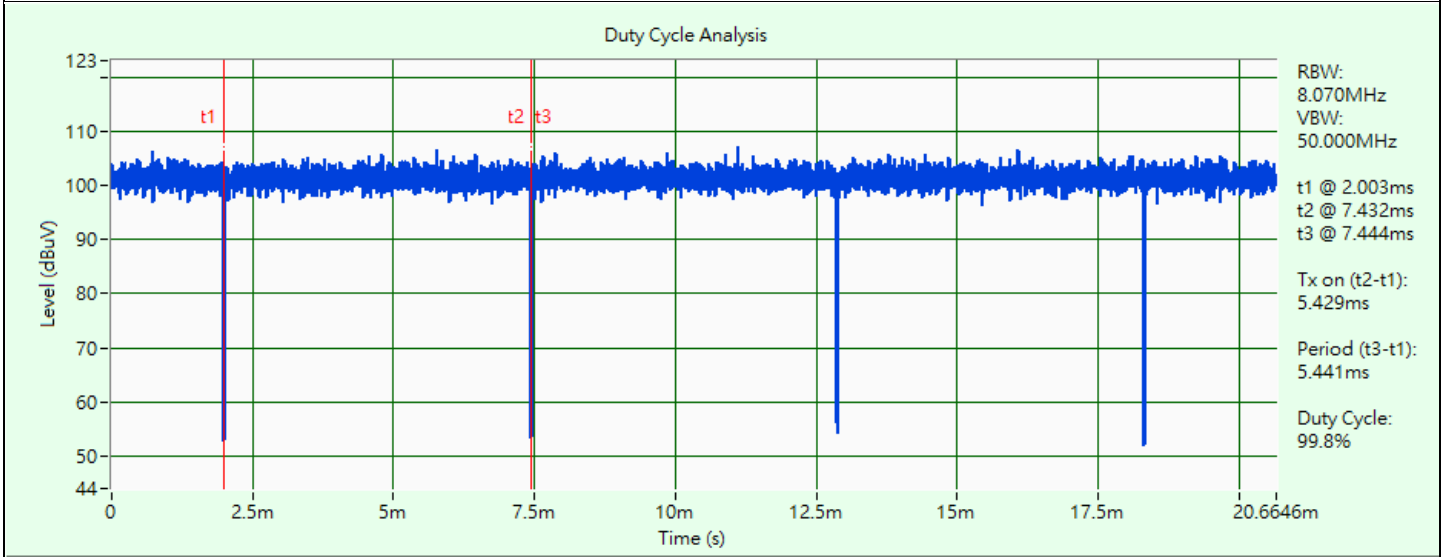
802.11a



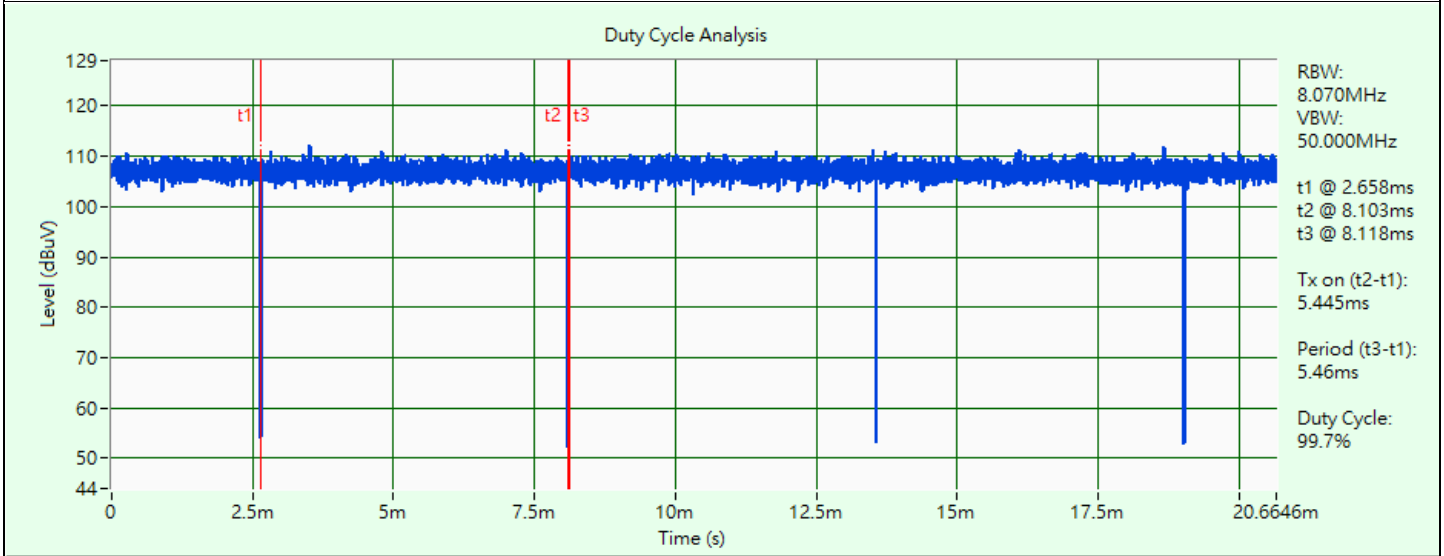
802.11ac (VHT20)



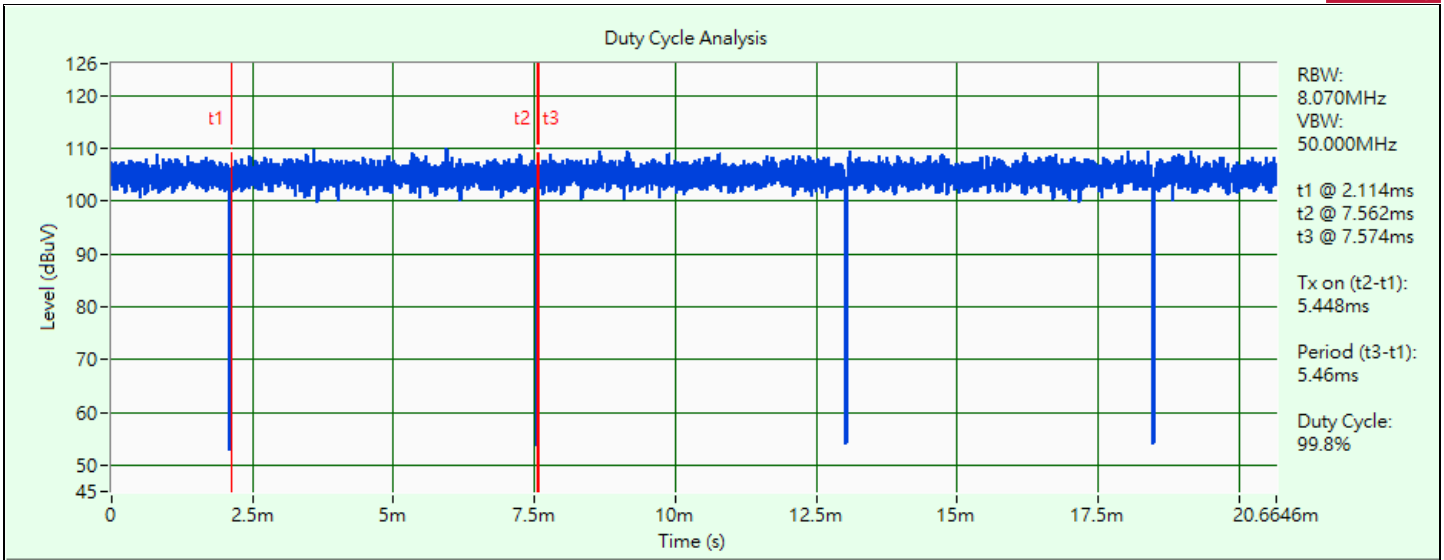
802.11ac (VHT40)



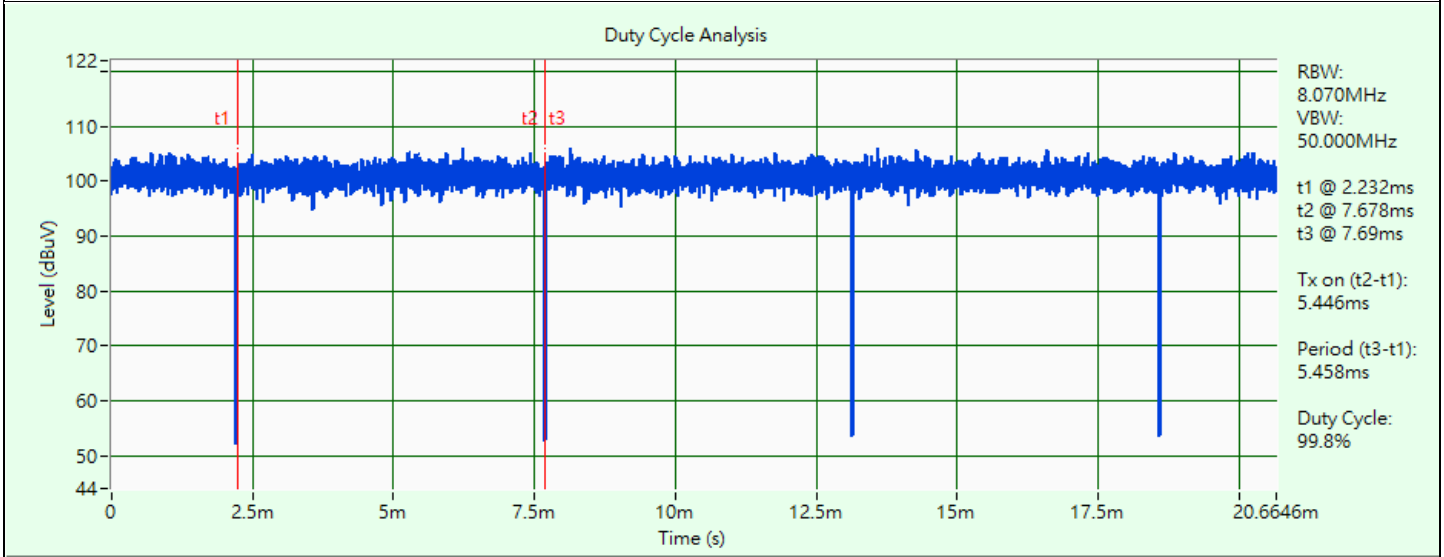
802.11ac (VHT80)



802.11ax (HE20)



802.11ax (HE40)

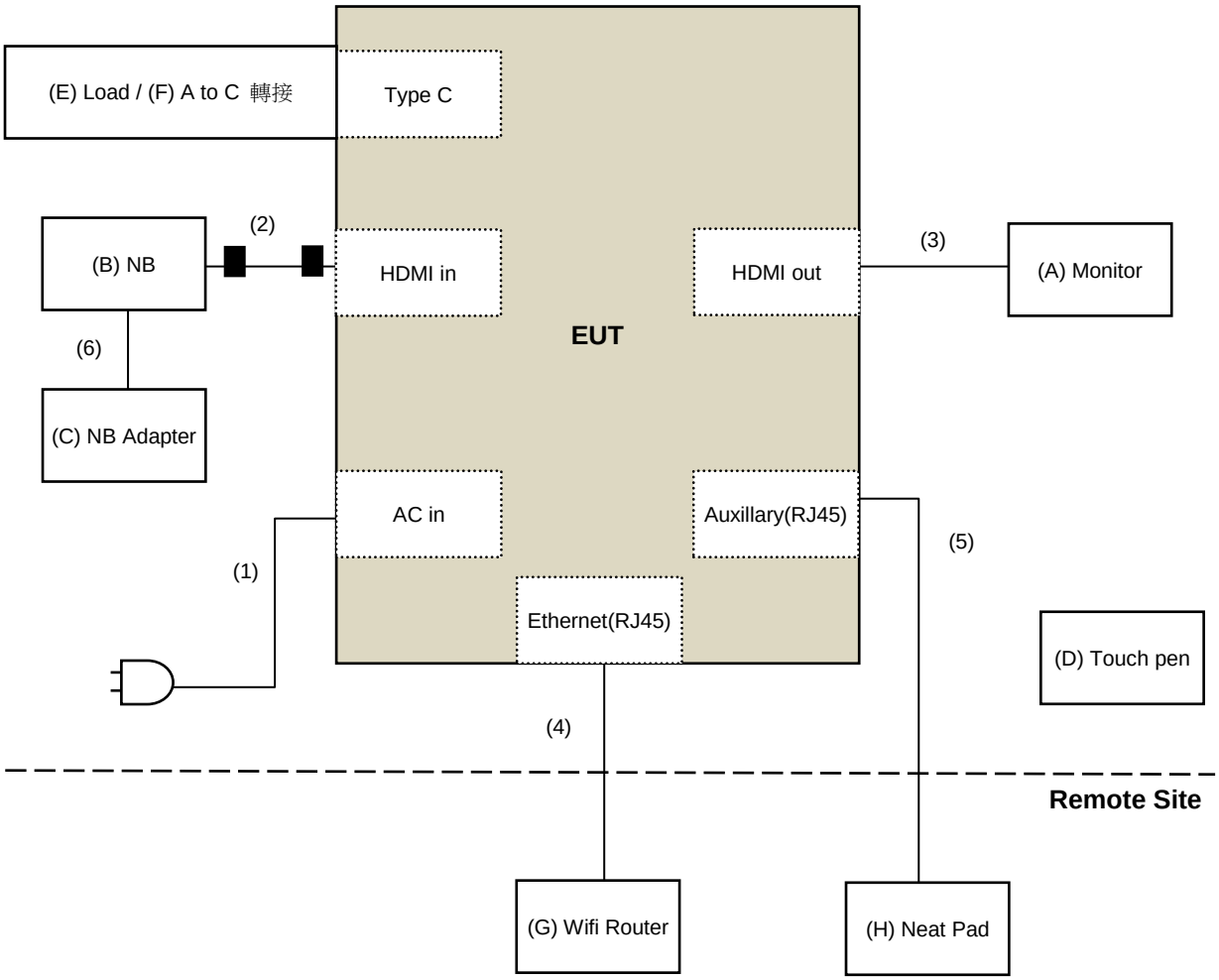


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

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

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Monitor	ASUS	PA279CV	M7LMTF235971	DoC	Provided by Lab
B	NB	LENOVO	IdeaPad 5 15ITL05	N/A	N/A	Provided by Lab
C	NB Adapter	LENOVO	ADLX65CLGU2A	N/A	N/A	Provided by Lab
D	Touch pen	neat	NF-H2	N/A	N/A	Supplied by applicant
E	LOAD	BV	Dummy Load-02	N/A	N/A	Provided by Lab
F	A to C Adapter	i-gota	UTC180	N/A	N/A	Provided by Lab
G	Wifi Router	NETGEAR	R6350	58E798B00017E	DoC	Provided by Lab
H	Neat Pad	neat	A1	N/A	N/A	Supplied by applicant

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	2	Supplied by applicant
3	HDMI Cable	1	2	Y	0	Supplied by applicant
4	RJ45	1	10	N	0	Provided by Lab
5	RJ45	1	10	N	0	Provided by Lab
6	NB Adapter DC Cable	1	1.8	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
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/2/6

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	0738404	2023/5/5	2024/5/4
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
RF Power Meter Anritsu	ML2495A	0842014	2023/5/5	2024/5/4
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2023/6/6	2024/6/5

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/2/6

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source Schaffner	Profline2105-208NSG1007	55616	N/A	N/A
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920409	2023/6/26	2024/6/25

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/2/6

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance LYNICS	0900510	E1-01-305	2024/2/6	2025/2/5
		E1-011285	2023/9/21	2024/9/20
		E1-011286	2023/9/21	2024/9/20
Coupling / Decoupling Network TESEQ	CDN A201A	44601	2023/12/14	2024/12/13
EMI Test Receiver R&S	ESCS 30	100276	2023/4/20	2024/4/19
	ESR3	102413	2024/1/29	2025/1/28
Fixed Attenuator EMEC	EM-ATT30002602NN	N/A	2024/3/22	2025/3/21
Fixed Attenuator STI	STI02-2200-10	NO.3	2023/10/20	2024/10/19
High Voltage Probe Schwarzbeck	TK9420	00982	2023/12/11	2024/12/10
LISN R&S	ENV216	101196	2023/5/22	2024/5/21
		101197	2023/7/12	2024/7/11
	ESH3-Z5	100220	2023/11/22	2024/11/21
LISN Schwarzbeck	NNLK 8121	8121-731	2023/6/9	2024/6/8
		8121-00759	2023/8/21	2024/8/20
		8121-808	2023/5/2	2024/5/1
	NNLK 8129	8129229	2023/6/27	2024/6/26
RF Coaxial Cable PEWC	5D-FB	Cable-CO3-01	2023/9/13	2024/9/12
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 3.
2. Tested Date: 2024/4/15

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2023/10/13	2024/10/12
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2023/5/25	2024/5/24
	CDNE-M3	00091	2023/5/25	2024/5/24
Loop Antenna EMCI	LPA600	270	2023/9/4	2024/9/3
MXE EMI Receiver Agilent	N9038A	MY51210129	2024/3/22	2025/3/21
		MY51210137	2023/6/5	2024/6/4
Preamplifier Agilent	8447D	2944A11064	2024/2/15	2025/2/14
Preamplifier EMCI	EMC001340	980269	2023/6/27	2024/6/26
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2023/6/27	2024/6/26
Signal Analyzer R&S	FSV40	101544	2023/5/9	2024/5/8
Software BVADT	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 test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2024/4/16 ~ 2024/4/24

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2023/5/25	2024/5/24
Horn Antenna EMCO	3115	00028257	2023/11/12	2024/11/11
Horn Antenna ETS-Lindgren	3117-PA	00215857	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	212	2023/10/16	2024/10/15
		BBHA9170241	2023/10/16	2024/10/15
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		MY51210137	2023/6/5	2024/6/4
Notch Filter Micro-Tronics	BRC50703-01	010	2023/5/25	2024/5/24
	BRM17690	005	2023/5/25	2024/5/24
Preamplifier EMCI	EMC0126545	980076	2023/2/16	2024/2/15
	EMC184045B	980175	2023/9/2	2024/9/1
		980235	2023/2/16	2024/2/15
Preamplifier HP	8449B	3008A01201	2023/2/16	2024/2/15
RF Coaxial Cable EMCI	EMC102-KM-KM-1000	200310	2023/3/12	2024/3/11
	EMC104	190801	2023/9/13	2024/9/12
		190804	2023/9/13	2024/9/12
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2023/9/13	2024/9/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
		101544	2023/5/9	2024/5/8
Software BVADT	Radiated_V7.7.1.1.1	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 test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2024/1/9 ~ 2024/1/31

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.		

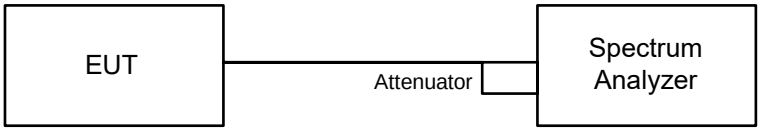
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



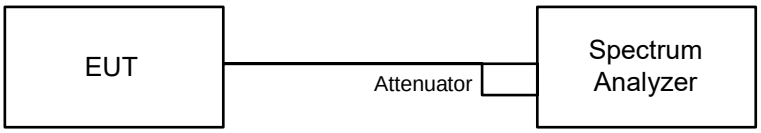
6.1.2 Test Procedure

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

For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

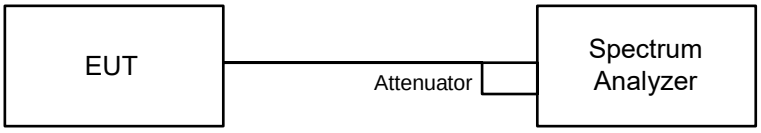
Method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-1

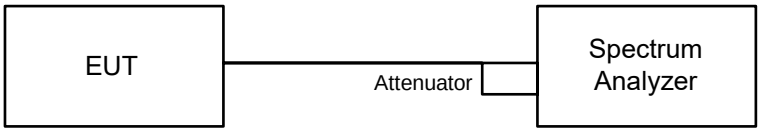
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger 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

6.4 6 dB Bandwidth

6.4.1 Test Setup

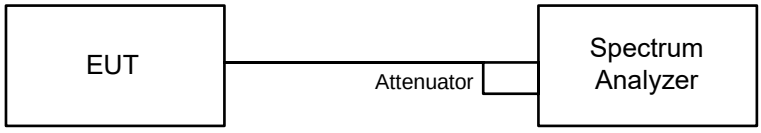


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

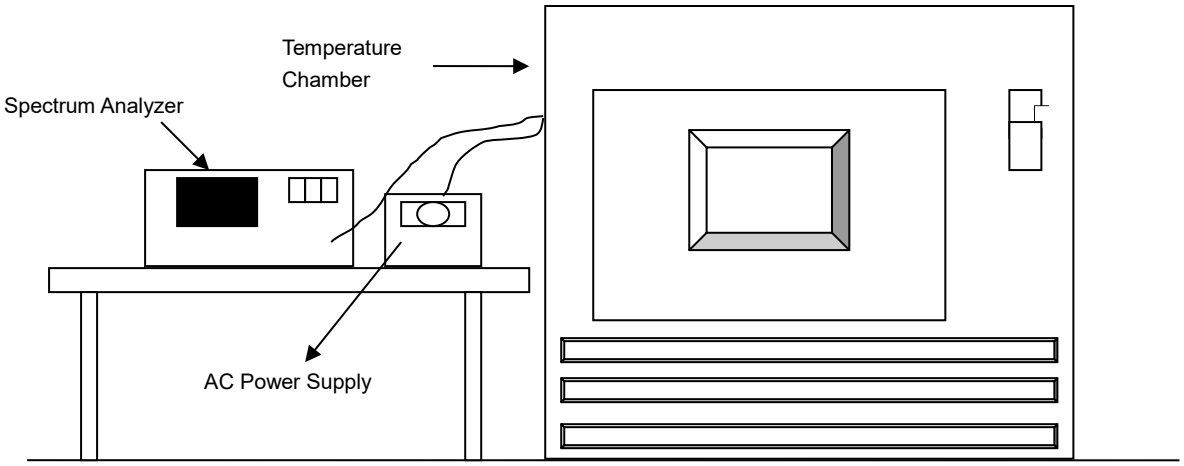


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

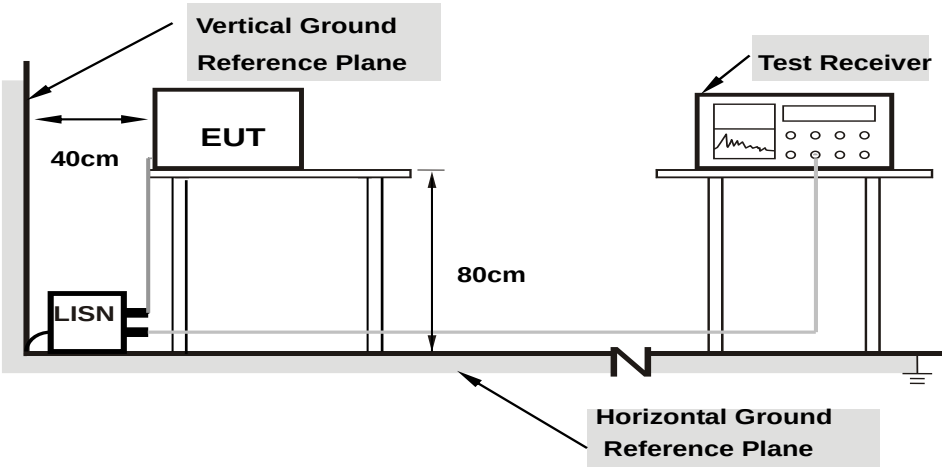


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

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

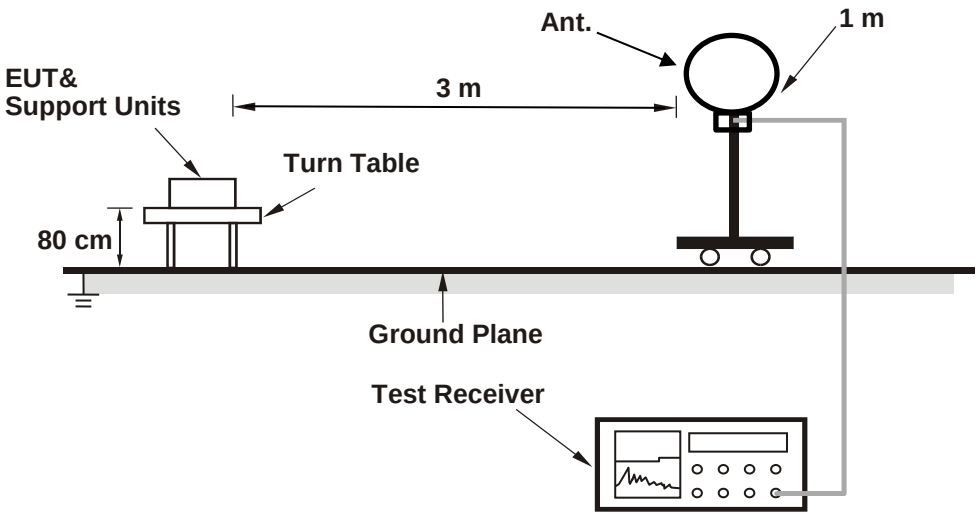
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

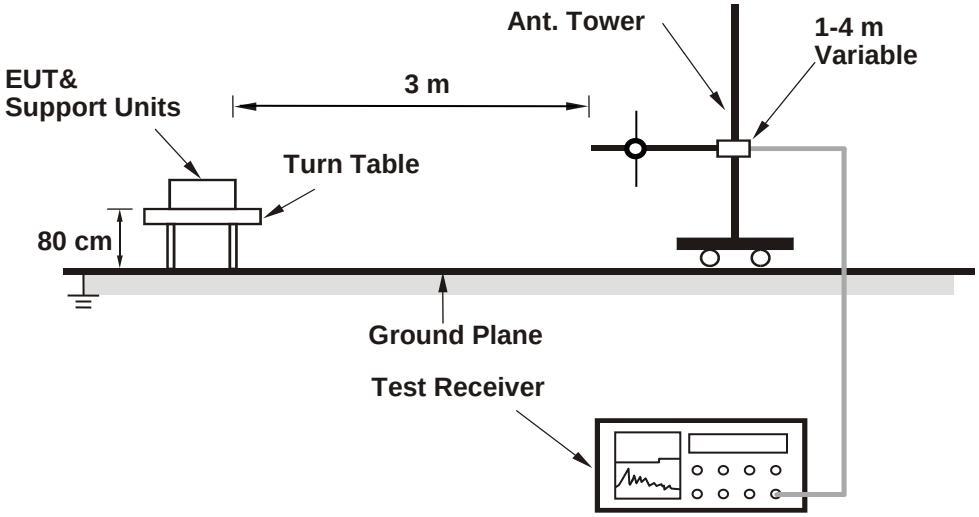
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

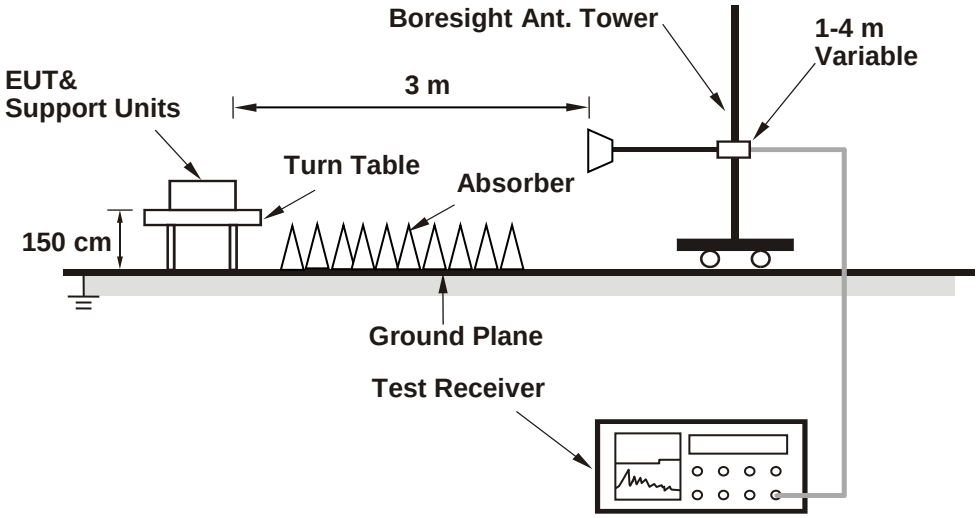
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

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

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.96	20.85
60	5300	19.01	18.84
64	5320	18.69	18.80
100	5500	18.73	18.81
116	5580	21.98	21.93
140	5700	20.61	19.59
144 (U-NII-2C)	5720	15.38	15.17
144 (U-NII-3)	5720	4.40	5.32

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	20.85	24.19	>	24
60	5300	18.84	23.75	<	24
64	5320	18.69	23.71	<	24
100	5500	18.73	23.72	<	24
116	5580	21.93	24.41	>	24
140	5700	19.59	23.92	<	24
144 (U-NII-2C)	5720	15.17	22.8	<	24

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

802.11ac (VHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.30	21.48
60	5300	20.63	20.18
64	5320	19.94	20.20
100	5500	19.98	20.56
116	5580	21.26	22.05
140	5700	21.01	21.36
144 (U-NII-2C)	5720	15.88	15.56
144 (U-NII-3)	5720	5.31	5.33

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.30	24.28	>	24
60	5300	20.18	24.04	>	24
64	5320	19.94	23.99	<	24
100	5500	19.98	24	=	24
116	5580	21.26	24.27	>	24
140	5700	21.01	24.22	>	24
144 (U-NII-2C)	5720	15.56	22.92	<	24

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

802.11ac (VHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	43.84	49.96
62	5310	40.30	39.82
102	5510	40.61	39.78
110	5550	40.51	40.31
134	5670	42.52	42.87
142 (U-NII-2C)	5710	35.29	35.31
142 (U-NII-3)	5710	5.20	5.28

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	43.84	27.41	>	24
62	5310	39.82	27	>	24
102	5510	39.78	26.99	>	24
110	5550	40.31	27.05	>	24
134	5670	42.52	27.28	>	24
142 (U-NII-2C)	5710	35.29	26.47	>	24

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

802.11ac (VHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.85	82.18
106	5530	83.11	82.19
122	5610	83.03	85.21
138 (U-NII-2C)	5690	77.50	76.76
138 (U-NII-3)	5690	7.71	6.44

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	82.18	30.14	>	24
106	5530	82.19	30.14	>	24
122	5610	83.03	30.19	>	24
138 (U-NII-2C)	5690	76.76	29.85	>	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	21.47	21.86
60	5300	20.99	20.90
64	5320	21.16	21.05
100	5500	20.96	21.01
116	5580	22.15	24.12
140	5700	21.90	21.35
144 (U-NII-2C)	5720	15.74	15.99
144 (U-NII-3)	5720	5.57	5.91

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.47	24.31	>	24
60	5300	20.90	24.2	>	24
64	5320	21.05	24.23	>	24
100	5500	20.96	24.21	>	24
116	5580	22.15	24.45	>	24
140	5700	21.35	24.29	>	24
144 (U-NII-2C)	5720	15.74	22.97	<	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	41.17	48.38
62	5310	40.97	40.86
102	5510	40.75	40.80
110	5550	41.48	41.15
134	5670	42.81	41.18
142 (U-NII-2C)	5710	35.63	35.61
142 (U-NII-3)	5710	5.38	5.38

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	41.17	27.14	>	24
62	5310	40.86	27.11	>	24
102	5510	40.75	27.1	>	24
110	5550	41.15	27.14	>	24
134	5670	41.18	27.14	>	24
142 (U-NII-2C)	5710	35.61	26.51	>	24

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

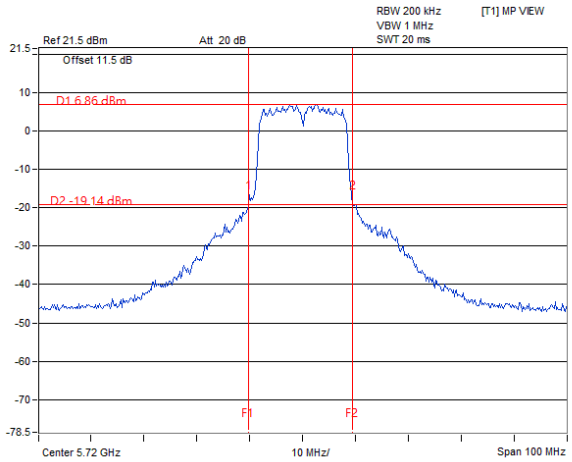
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.08	83.16
106	5530	82.99	83.32
122	5610	83.59	84.49
138 (U-NII-2C)	5690	76.53	77.05
138 (U-NII-3)	5690	7.19	6.78

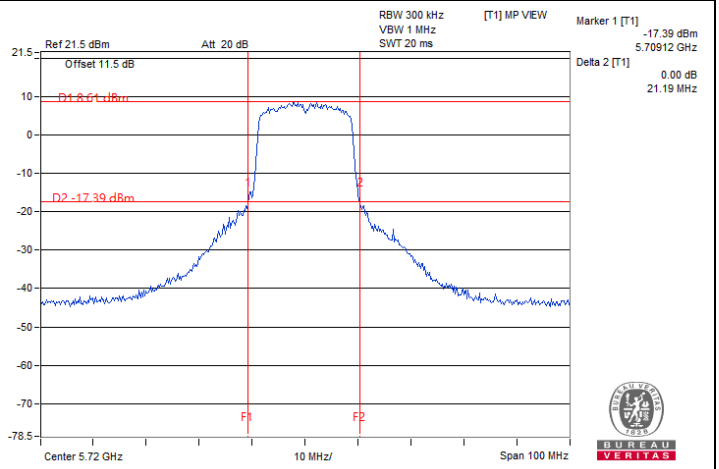
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	83.08	30.19	>	24
106	5530	82.99	30.19	>	24
122	5610	83.59	30.22	>	24
138 (U-NII-2C)	5690	76.53	29.83	>	24

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

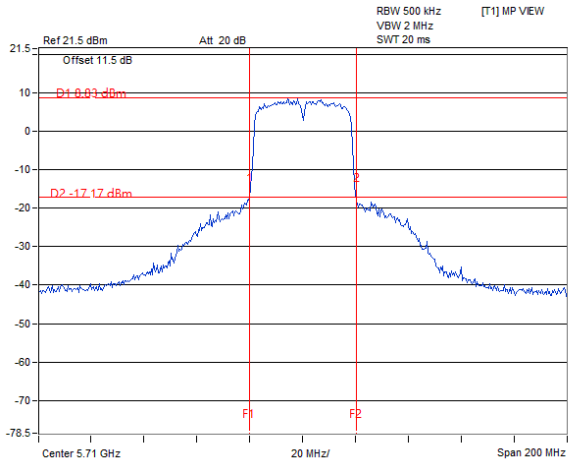
Spectrum Plot of Minimum Value



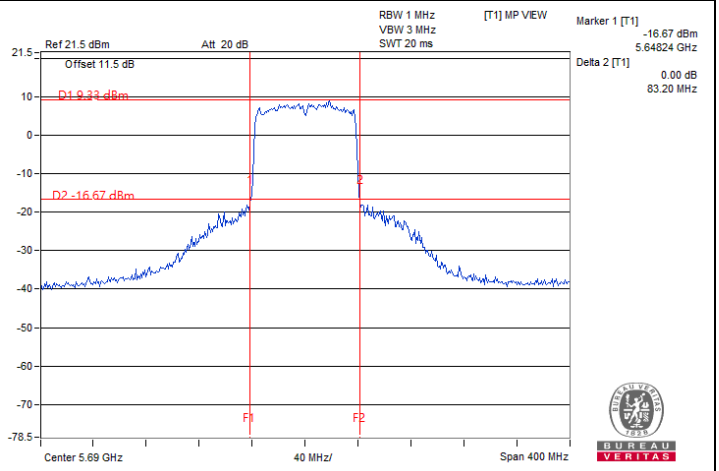
802.11a / Chain 0 : CH 144 (U-NII-3)



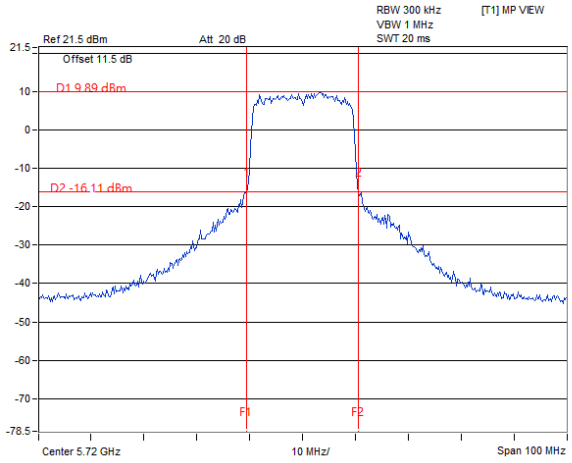
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)



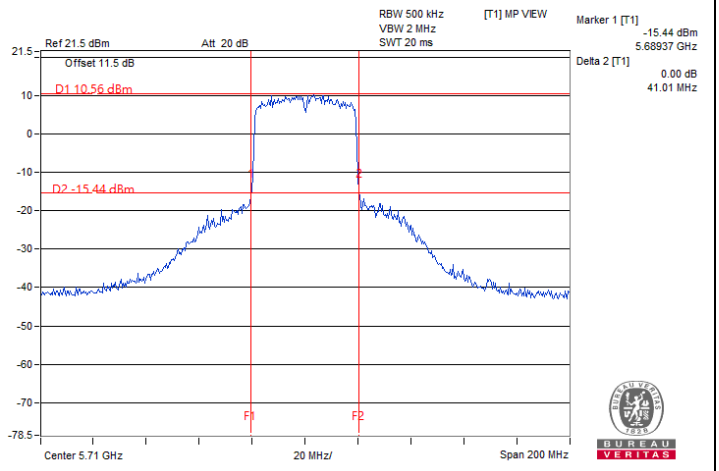
802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-3)



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

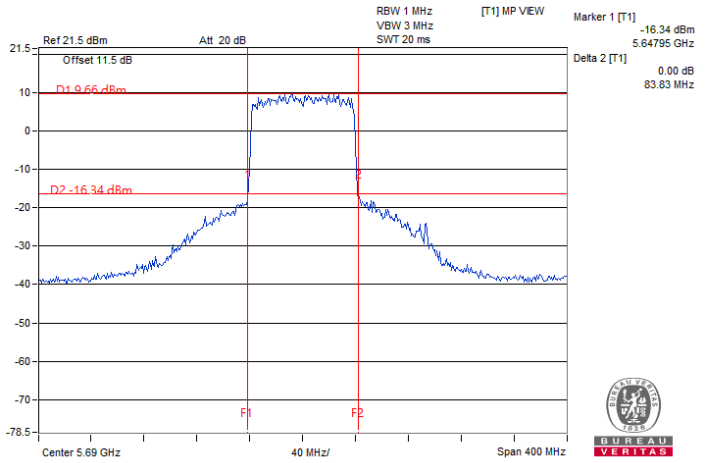


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

Spectrum Plot of Minimum Value



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

Notes:

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

7.2 RF Output Power

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

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	16.42	15.31	77.816	18.91	24	Pass
40	5200	16.40	15.34	77.85	18.91	24	Pass
48	5240	16.59	15.77	83.361	19.21	24	Pass
52	5260	17.74	16.92	108.633	20.36	24	Pass
60	5300	16.37	14.83	73.76	18.68	23.75	Pass
64	5320	13.96	12.55	42.877	16.32	23.71	Pass
100	5500	15.76	14.81	67.94	18.32	23.72	Pass
116	5580	18.30	17.46	123.327	20.91	24	Pass
140	5700	18.09	17.45	120.007	20.79	23.92	Pass
*144 (U-NII-2C)	5720	15.83	15.49	73.682	18.67	22.8	Pass
*144 (U-NII-3)	5720	9.32	9.08	16.642	12.21	30	Pass
149	5745	18.02	17.82	123.921	20.93	30	Pass
157	5785	17.96	17.87	123.752	20.93	30	Pass
165	5825	18.03	17.46	119.252	20.76	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 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	16.73	15.59	83.322	19.21	24	Pass
40	5200	16.71	15.55	82.774	19.18	24	Pass
48	5240	16.80	15.94	87.128	19.40	24	Pass
52	5260	17.59	16.71	104.293	20.18	24	Pass
60	5300	15.35	14.17	60.398	17.81	24	Pass
64	5320	14.48	12.93	47.688	16.78	23.99	Pass
100	5500	15.51	14.61	64.47	18.09	24	Pass
116	5580	18.08	17.05	114.968	20.61	24	Pass
140	5700	17.77	17.07	110.774	20.44	24	Pass
*144 (U-NII-2C)	5720	15.69	15.35	71.345	18.53	22.92	Pass
*144 (U-NII-3)	5720	9.63	9.06	17.237	12.36	30	Pass
149	5745	17.80	17.55	117.141	20.69	30	Pass
157	5785	17.87	17.39	116.063	20.65	30	Pass
165	5825	17.88	17.26	114.587	20.59	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 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	15.72	14.52	65.639	18.17	24	Pass
46	5230	17.87	17.17	113.355	20.54	24	Pass
54	5270	18.14	17.07	116.096	20.65	24	Pass
62	5310	15.80	14.25	64.626	18.10	24	Pass
102	5510	15.39	14.37	61.947	17.92	24	Pass
110	5550	17.93	17.11	113.491	20.55	24	Pass
134	5670	18.15	17.62	123.123	20.90	24	Pass
*142 (U-NII-2C)	5710	16.51	16.47	89.132	19.50	24	Pass
*142 (U-NII-3)	5710	6.00	5.20	7.292	8.63	30	Pass
151	5755	18.26	18.03	130.522	21.16	30	Pass
159	5795	18.25	17.87	128.069	21.07	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.06	14.38	59.478	17.74	24	Pass
58	5290	15.26	14.00	58.693	17.69	24	Pass
106	5530	15.34	14.25	60.805	17.84	24	Pass
122	5610	17.86	17.62	118.904	20.75	24	Pass
*138 (U-NII-2C)	5690	16.84	16.41	92.058	19.64	24	Pass
*138 (U-NII-3)	5690	2.19	1.45	3.052	4.85	30	Pass
155	5775	17.96	17.83	123.191	20.91	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 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	16.84	15.75	85.89	19.34	24	Pass
40	5200	16.77	15.73	84.945	19.29	24	Pass
48	5240	16.92	16.07	89.662	19.53	24	Pass
52	5260	17.70	16.85	107.302	20.31	24	Pass
60	5300	15.48	14.31	62.296	17.94	24	Pass
64	5320	14.62	13.05	49.157	16.92	24	Pass
100	5500	15.63	14.72	66.208	18.21	24	Pass
116	5580	18.20	17.19	118.429	20.73	24	Pass
140	5700	17.91	17.21	114.403	20.58	24	Pass
*144 (U-NII-2C)	5720	15.61	15.35	70.668	18.49	22.97	Pass
*144 (U-NII-3)	5720	9.95	9.50	18.798	12.74	30	Pass
149	5745	17.94	17.68	120.844	20.82	30	Pass
157	5785	17.99	17.52	119.444	20.77	30	Pass
165	5825	18.02	17.38	118.089	20.72	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 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	15.85	14.67	67.768	18.31	24	Pass
46	5230	17.98	17.31	116.633	20.67	24	Pass
54	5270	18.28	17.19	119.658	20.78	24	Pass
62	5310	15.92	14.36	66.374	18.22	24	Pass
102	5510	15.53	14.51	63.976	18.06	24	Pass
110	5550	18.05	17.23	116.671	20.67	24	Pass
134	5670	18.29	17.75	127.019	21.04	24	Pass
*142 (U-NII-2C)	5710	16.86	16.34	91.582	19.62	24	Pass
*142 (U-NII-3)	5710	6.49	5.83	8.285	9.18	30	Pass
151	5755	18.40	18.15	134.496	21.29	30	Pass
159	5795	18.37	17.98	131.513	21.19	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.

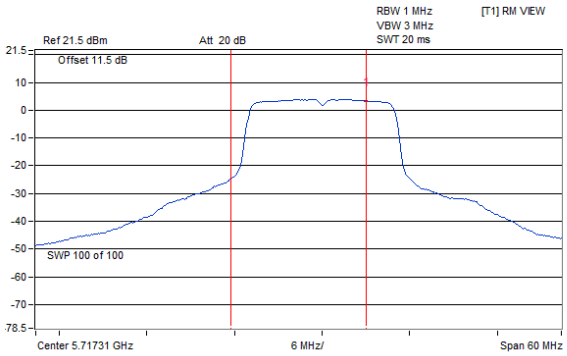
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.17	14.52	61.199	17.87	24	Pass
58	5290	15.38	14.11	60.278	17.80	24	Pass
106	5530	15.46	14.37	62.509	17.96	24	Pass
122	5610	18.00	17.75	122.662	20.89	24	Pass
*138 (U-NII-2C)	5690	16.89	16.46	93.124	19.69	24	Pass
*138 (U-NII-3)	5690	2.78	2.38	3.627	5.60	30	Pass
155	5775	18.08	17.94	126.499	21.02	30	Pass

Notes:

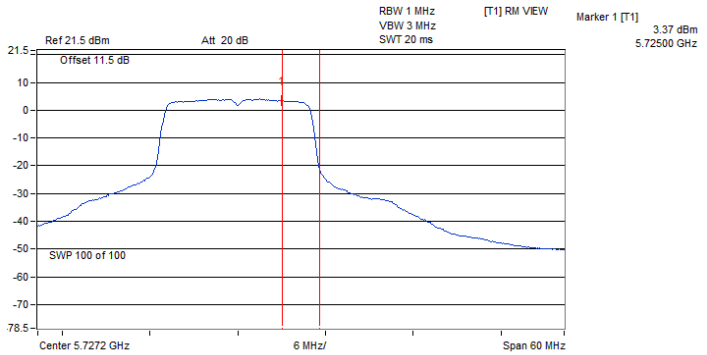
1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 1.67 dBi < 6 dBi, so the output power limit shall not be reduced.

Spectrum Plot for channel straddling



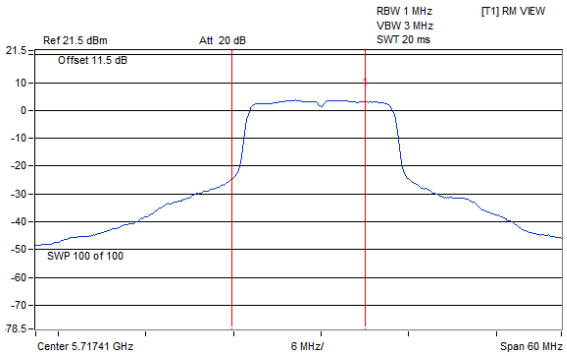
TX Channel Bandwidth 15.38 MHz Power 15.83 dBm

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



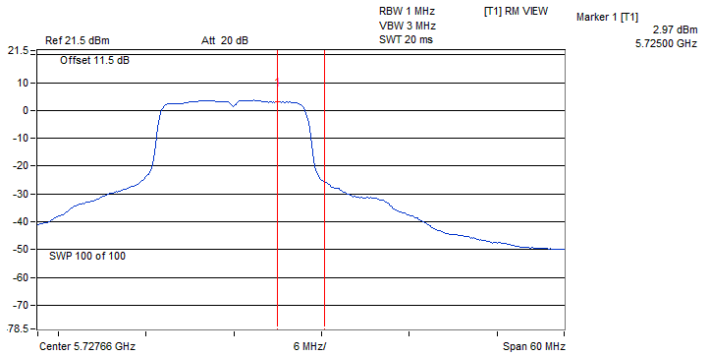
TX Channel Bandwidth 4.4 MHz Power 9.32 dBm

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



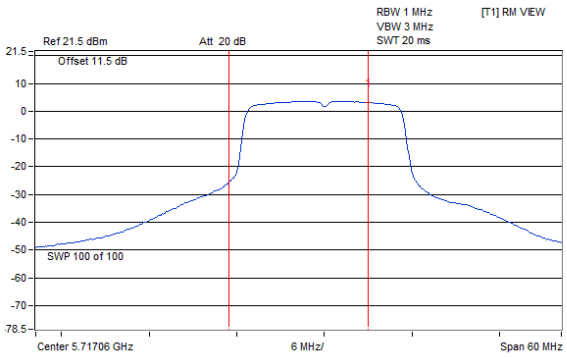
TX Channel Bandwidth 15.17 MHz Power 15.49 dBm

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



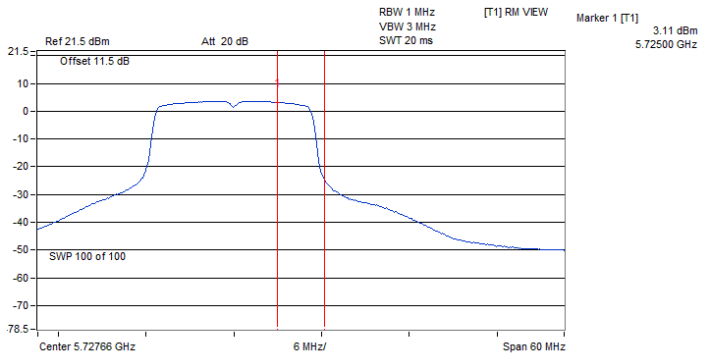
TX Channel Bandwidth 5.32 MHz Power 9.08 dBm

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



TX Channel Bandwidth 15.88 MHz Power 15.69 dBm

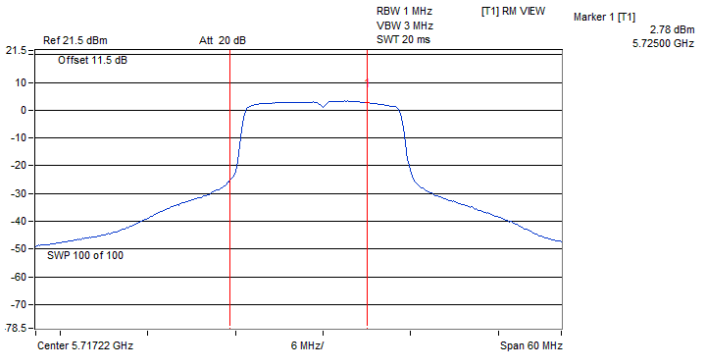
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.31 MHz Power 9.63 dBm

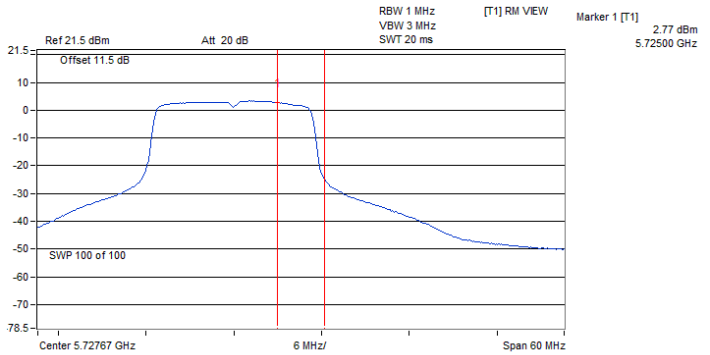
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



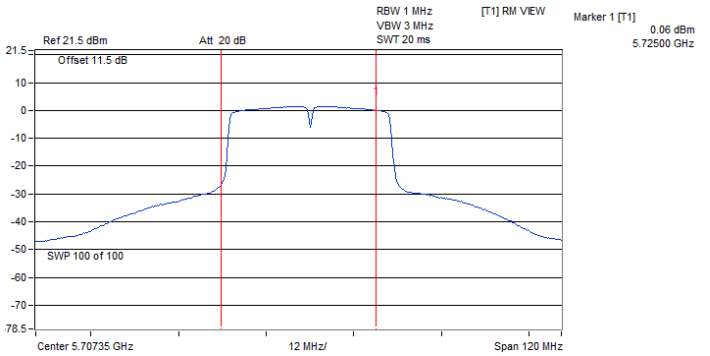
TX Channel Bandwidth 15.56 MHz Power 15.35 dBm

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



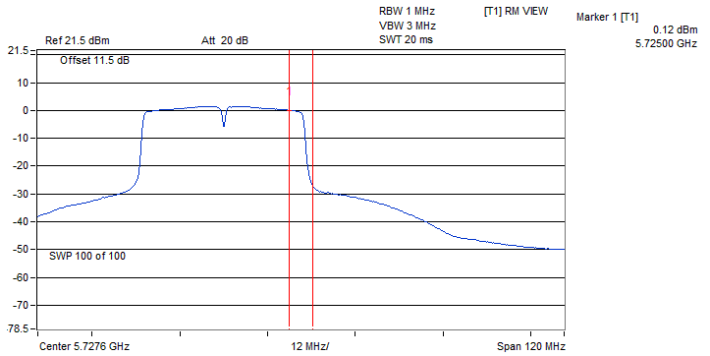
TX Channel Bandwidth 5.33 MHz Power 9.06 dBm

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



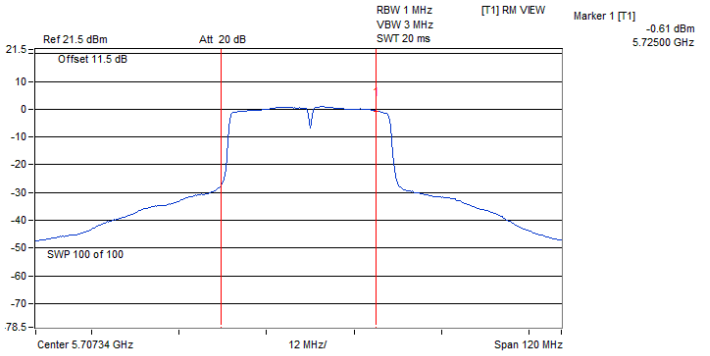
TX Channel Bandwidth 35.29 MHz Power 16.51 dBm

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



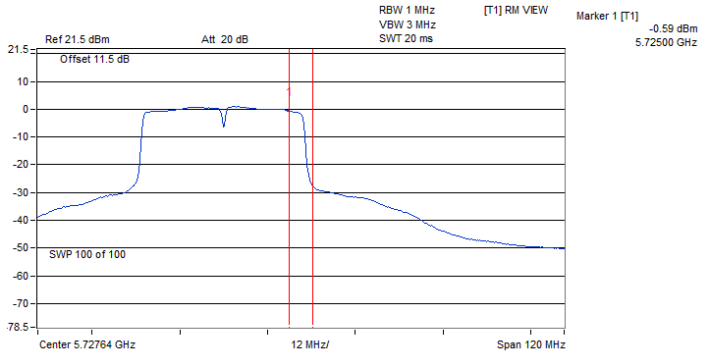
TX Channel Bandwidth 5.2 MHz Power 6 dBm

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



TX Channel Bandwidth 35.31 MHz Power 16.47 dBm

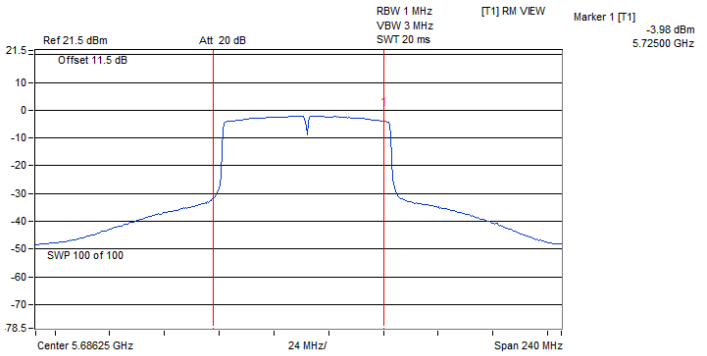
802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.28 MHz Power 5.2 dBm

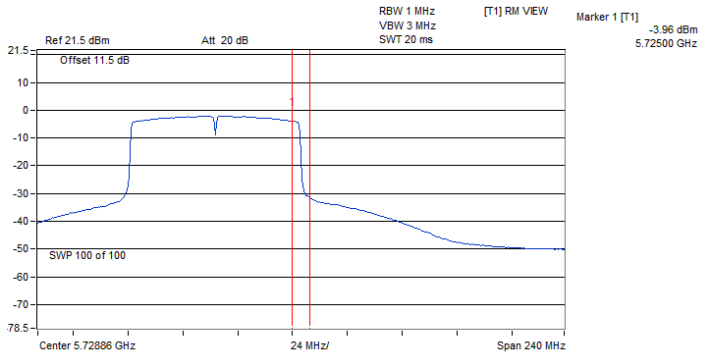
802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



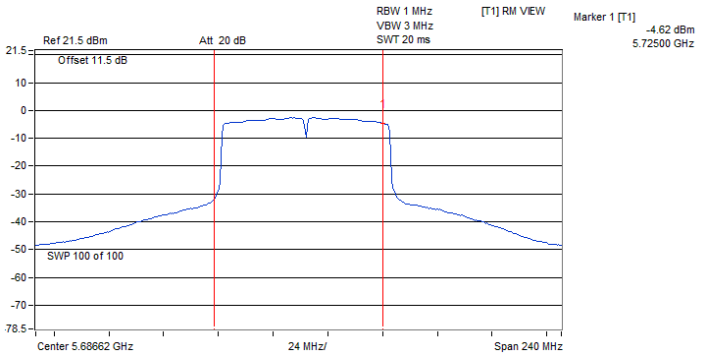
TX Channel Bandwidth 77.5 MHz Power 16.84 dBm

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



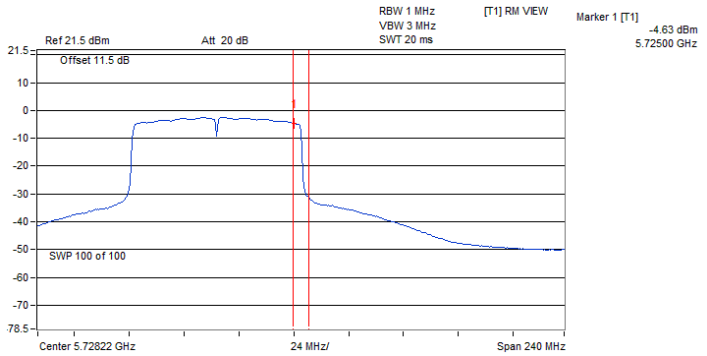
TX Channel Bandwidth 7.71 MHz Power 2.19 dBm

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



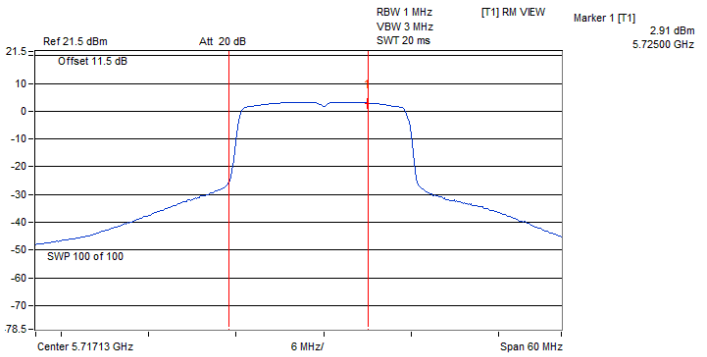
TX Channel Bandwidth 76.76 MHz Power 16.41 dBm

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



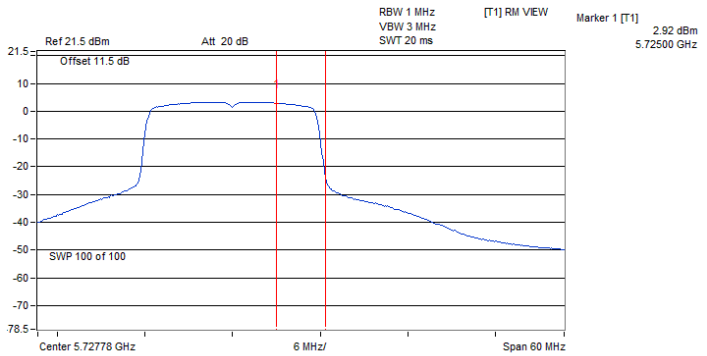
TX Channel Bandwidth 6.44 MHz Power 1.45 dBm

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



TX Channel Bandwidth 15.74 MHz Power 15.61 dBm

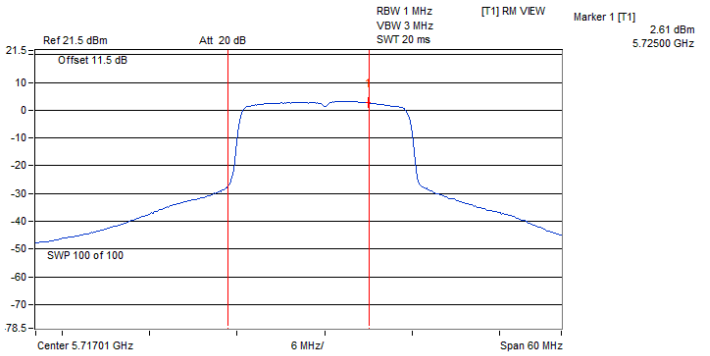
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



TX Channel Bandwidth 5.57 MHz Power 9.95 dBm

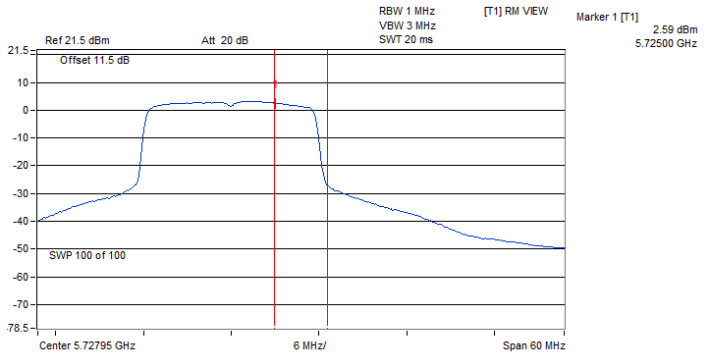
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



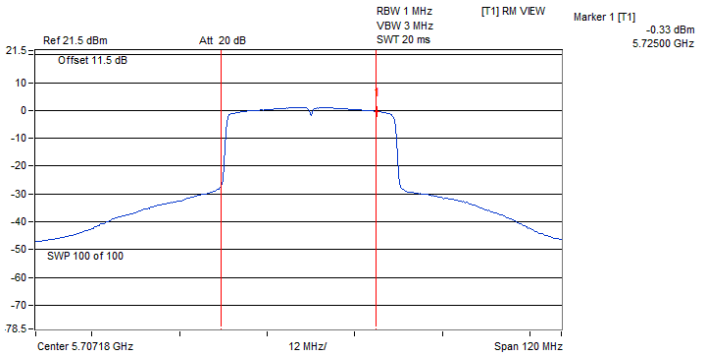
TX Channel Bandwidth 15.99 MHz Power 15.35 dBm

802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



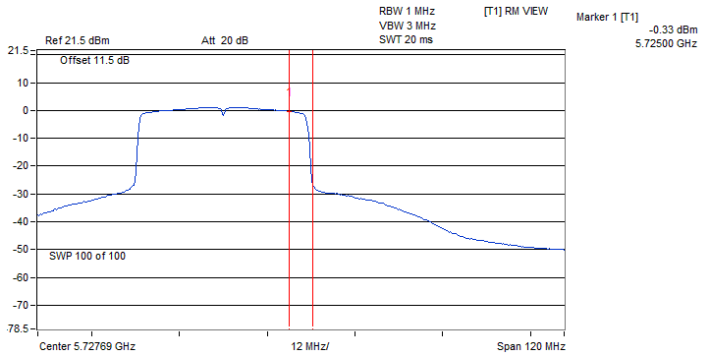
TX Channel Bandwidth 5.91 MHz Power 9.5 dBm

802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



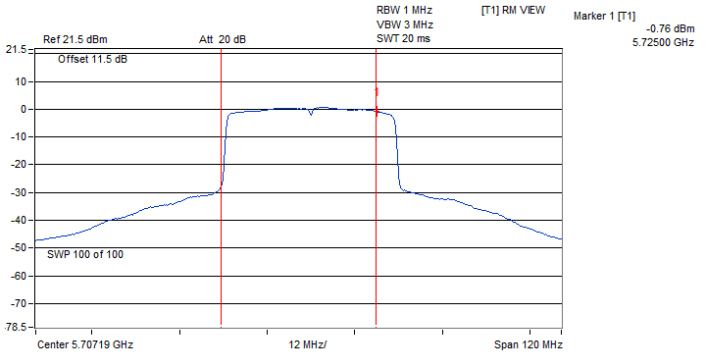
TX Channel Bandwidth 35.63 MHz Power 16.86 dBm

802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



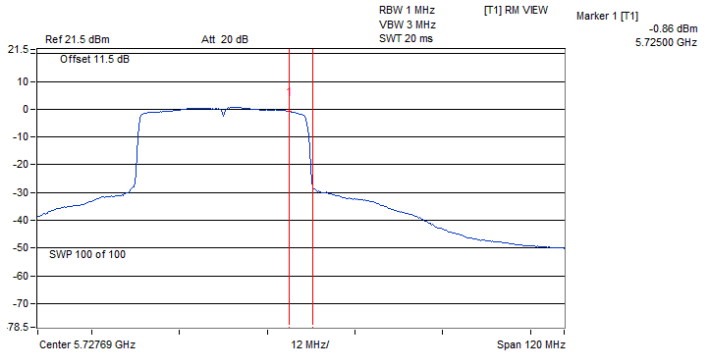
TX Channel Bandwidth 5.38 MHz Power 6.49 dBm

802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



TX Channel Bandwidth 35.61 MHz Power 16.34 dBm

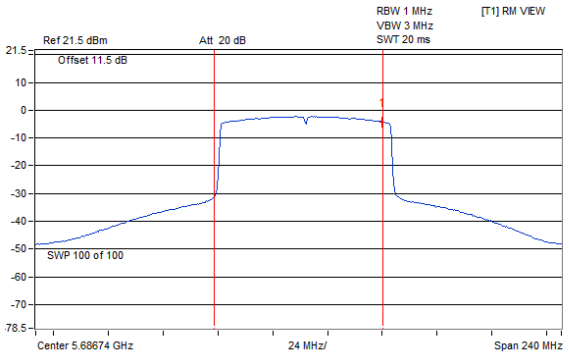
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



TX Channel Bandwidth 5.38 MHz Power 5.83 dBm

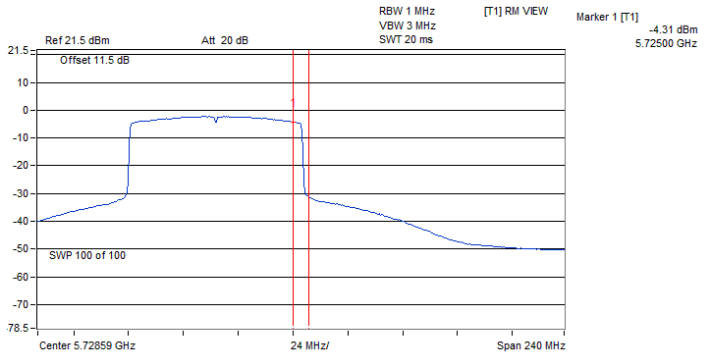
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



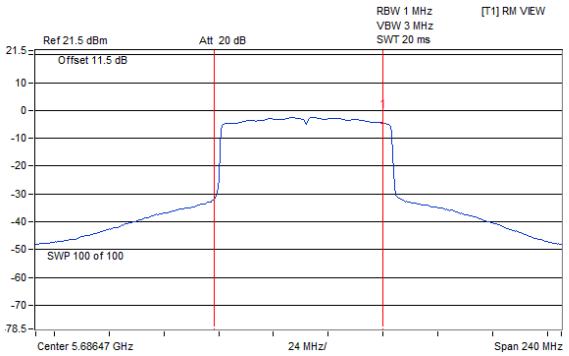
TX Channel Bandwidth 76.53 MHz Power 16.89 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



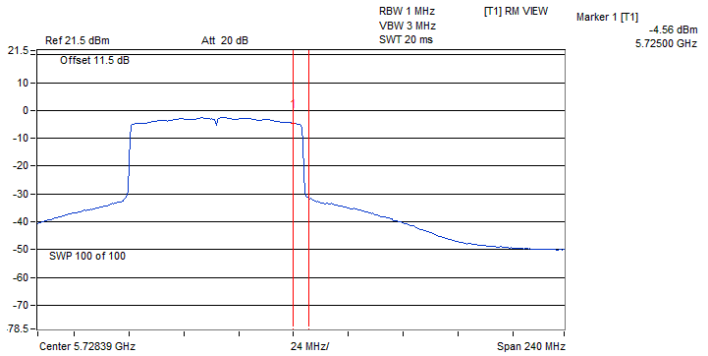
TX Channel Bandwidth 7.19 MHz Power 2.78 dBm

802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



TX Channel Bandwidth 77.05 MHz Power 16.46 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



TX Channel Bandwidth 6.78 MHz Power 2.38 dBm

802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

7.3 Power Spectral Density

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	2.91	1.54	5.29	11	Pass
40	5200	2.89	1.54	5.28	11	Pass
48	5240	3.03	1.74	5.44	11	Pass
52	5260	4.49	2.72	6.70	11	Pass
60	5300	1.93	0.58	4.32	11	Pass
64	5320	-0.08	-1.95	2.10	11	Pass
100	5500	1.83	0.99	4.44	11	Pass
116	5580	4.54	4.36	7.46	11	Pass
140	5700	4.00	3.63	6.83	11	Pass
144 (U-NII-2C)	5720	3.88	3.73	6.82	11	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 4.4 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

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	2.95	1.79	5.42	11	Pass
40	5200	2.89	1.83	5.40	11	Pass
48	5240	3.03	1.88	5.50	11	Pass
52	5260	3.29	2.25	5.81	11	Pass
60	5300	0.73	-0.58	3.13	11	Pass
64	5320	-0.33	-1.81	2.00	11	Pass
100	5500	1.13	0.15	3.68	11	Pass
116	5580	3.81	3.53	6.68	11	Pass
140	5700	3.20	2.99	6.11	11	Pass
144 (U-NII-2C)	5720	3.20	3.08	6.15	11	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 4.4 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-1.43	-2.76	0.97	11	Pass
46	5230	0.88	-0.06	3.45	11	Pass
54	5270	0.98	-0.20	3.44	11	Pass
62	5310	-1.72	-3.39	0.54	11	Pass
102	5510	-1.79	-2.73	0.78	11	Pass
110	5550	0.76	0.09	3.45	11	Pass
134	5670	0.82	0.52	3.68	11	Pass
142 (U-NII-2C)	5710	0.97	0.65	3.82	11	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 4.4 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-5.24	-6.02	-2.60	11	Pass
58	5290	-5.26	-6.38	-2.77	11	Pass
106	5530	-4.82	-5.35	-2.07	11	Pass
122	5610	-2.26	-2.45	0.66	11	Pass
138 (U-NII-2C)	5690	-2.28	-2.59	0.58	11	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 4.4 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

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	144 (U-NII-3)	5720	-5.11	-2.89	3.01	0.12	30	Pass
	149	5745	-4.22	-2	3.01	1.01	30	Pass
	157	5785	-4.38	-2.16	3.01	0.85	30	Pass
	165	5825	-4.25	-2.03	3.01	0.98	30	Pass
Chain 1	144 (U-NII-3)	5720	-5.35	-3.13	3.01	-0.12	30	Pass
	149	5745	-4.16	-1.94	3.01	1.07	30	Pass
	157	5785	-4.3	-2.08	3.01	0.93	30	Pass
	165	5825	-4.85	-2.63	3.01	0.38	30	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 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

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	144 (U-NII-3)	5720	-6.24	-4.02	3.01	-1.01	30	Pass
	149	5745	-5.74	-3.52	3.01	-0.51	30	Pass
	157	5785	-6.03	-3.81	3.01	-0.8	30	Pass
	165	5825	-5.92	-3.7	3.01	-0.69	30	Pass
Chain 1	144 (U-NII-3)	5720	-6.66	-4.44	3.01	-1.43	30	Pass
	149	5745	-5.58	-3.36	3.01	-0.35	30	Pass
	157	5785	-5.8	-3.58	3.01	-0.57	30	Pass
	165	5825	-6.36	-4.14	3.01	-1.13	30	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 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

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	142 (U-NII-3)	5710	-9.63	-7.41	3.01	-4.4	30	Pass
	151	5755	-8.06	-5.84	3.01	-2.83	30	Pass
	159	5795	-8.21	-5.99	3.01	-2.98	30	Pass
Chain 1	142 (U-NII-3)	5710	-10.15	-7.93	3.01	-4.92	30	Pass
	151	5755	-8.13	-5.91	3.01	-2.9	30	Pass
	159	5795	-8.53	-6.31	3.01	-3.3	30	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 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

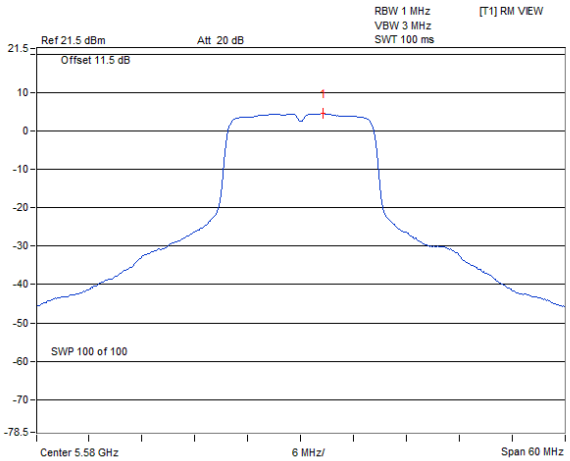
802.11ax (HE80)

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	138 (U-NII-3)	5690	-13.59	-11.37	3.01	-8.36	30	Pass
	155	5775	-11.44	-9.22	3.01	-6.21	30	Pass
Chain 1	138 (U-NII-3)	5690	-13.9	-11.68	3.01	-8.67	30	Pass
	155	5775	-11.33	-9.11	3.01	-6.1	30	Pass

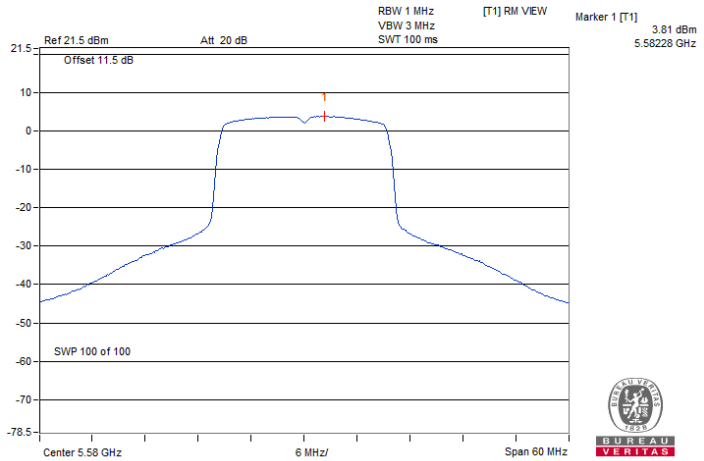
Notes:

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 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

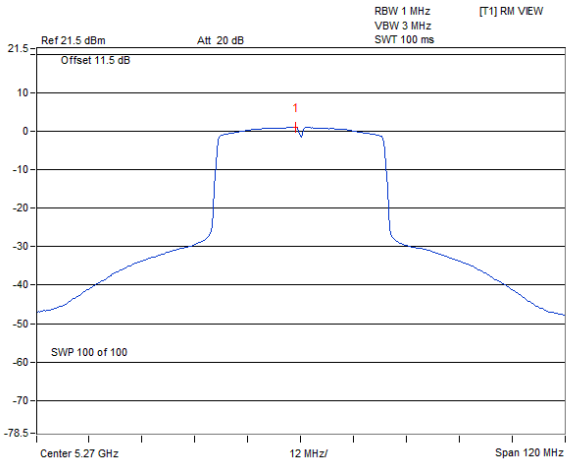
Spectrum Plot of Maximum Value



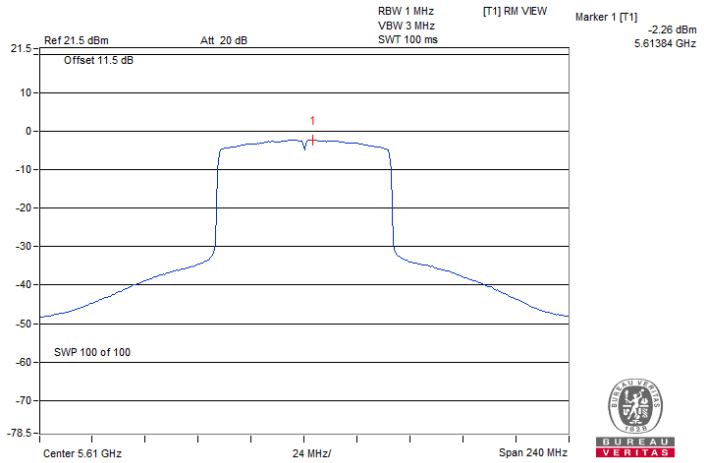
802.11a / Chain 0 : CH 116



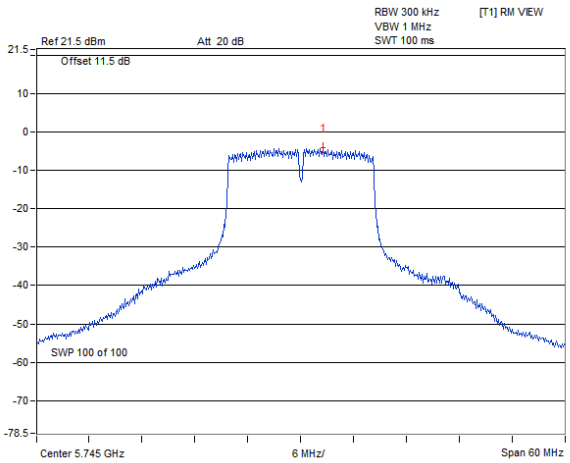
802.11ax (HE20) / Chain 0 : CH 116



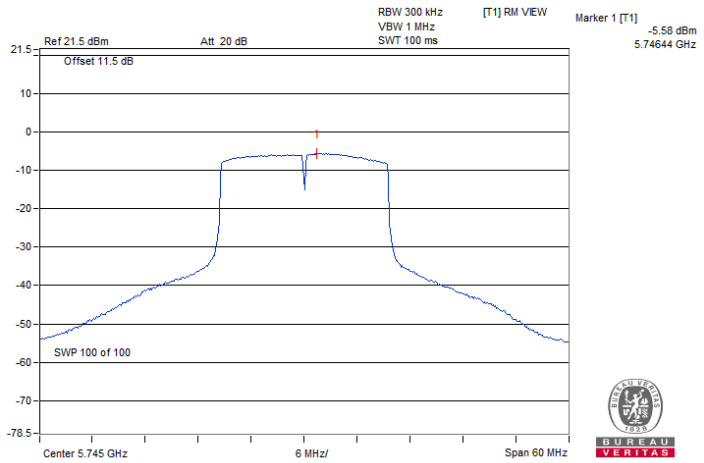
802.11ax (HE40) / Chain 0 : CH 54



802.11ax (HE80) / Chain 0 : CH 122

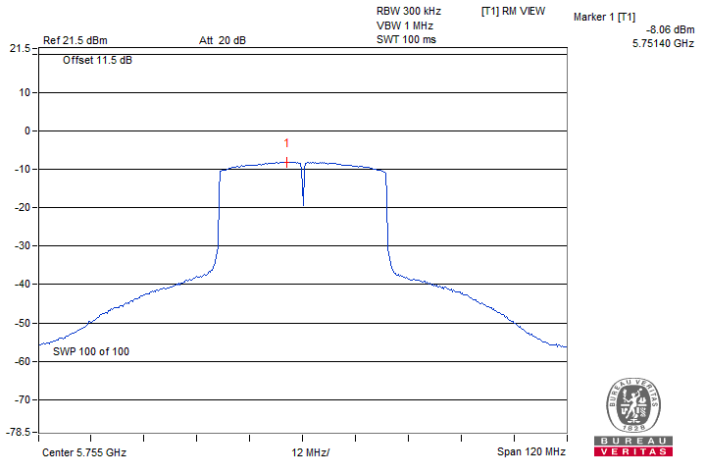


802.11a / Chain 1 : CH 149

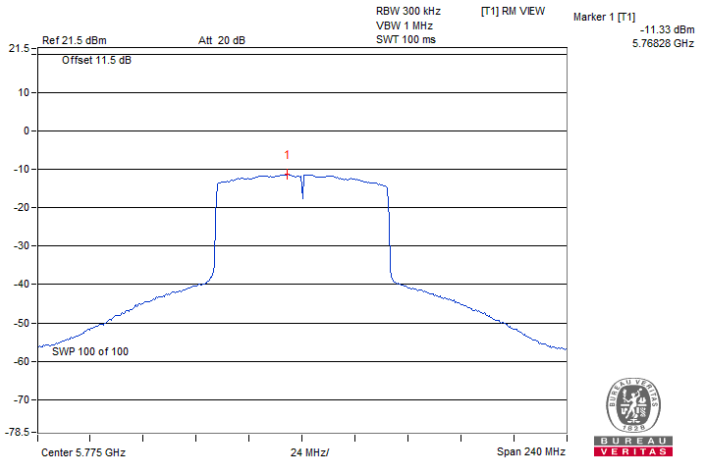


802.11ax (HE20) / Chain 1 : CH 149

Spectrum Plot of Maximum Value



802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

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

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.16	3.15	0.5	Pass
149	5745	16.32	16.33	0.5	Pass
157	5785	16.31	16.32	0.5	Pass
165	5825	15.84	16.33	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.23	4.25	0.5	Pass
149	5745	18.50	18.35	0.5	Pass
157	5785	18.51	18.61	0.5	Pass
165	5825	18.68	18.54	0.5	Pass

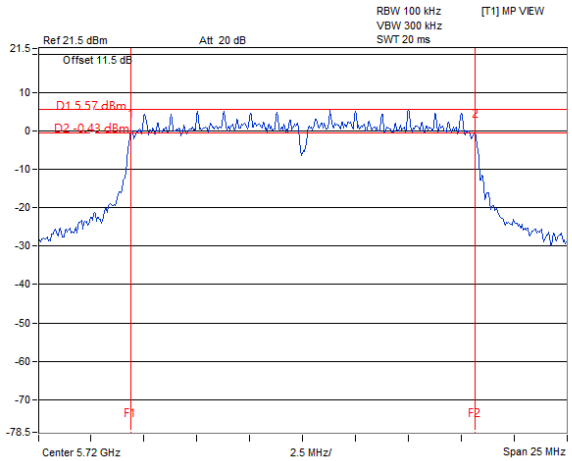
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.65	3.67	0.5	Pass
151	5755	37.83	37.16	0.5	Pass
159	5795	37.88	36.96	0.5	Pass

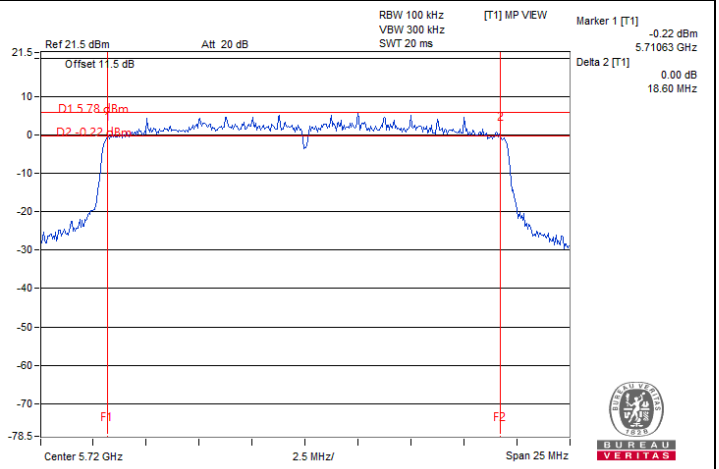
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	4.03	3.12	0.5	Pass
155	5775	77.31	77.44	0.5	Pass

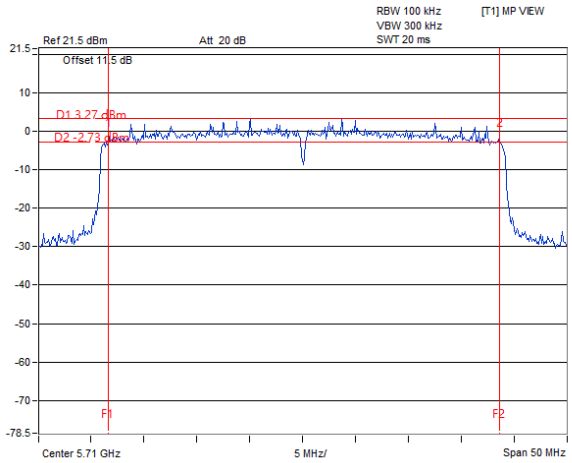
Spectrum Plot of Minimum Value



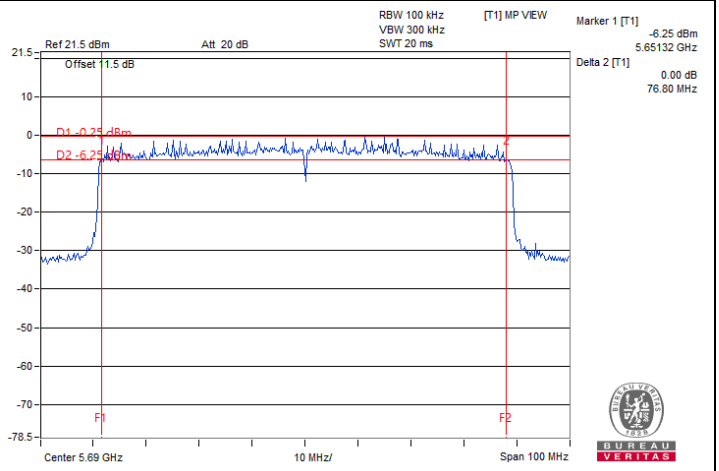
802.11a / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

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

7.5 Occupied Bandwidth

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

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.32	16.44
40	5200	16.32	16.32
48	5240	16.32	16.32
52	5260	16.44	16.56
60	5300	16.44	16.44
64	5320	16.44	16.32
100	5500	16.44	16.32
116	5580	16.44	16.56
140	5700	16.44	16.44
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16
149	5745	16.44	16.44
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.96
40	5200	18.96	18.84
48	5240	18.96	18.96
52	5260	18.96	18.96
60	5300	18.84	18.84
64	5320	18.96	18.96
100	5500	18.96	18.84
116	5580	19.08	18.96
140	5700	18.96	18.84
144 (U-NII-2C)	5720	14.48	14.48
144 (U-NII-3)	5720	4.48	4.48
149	5745	18.96	18.96
157	5785	18.96	19.08
165	5825	18.96	18.96

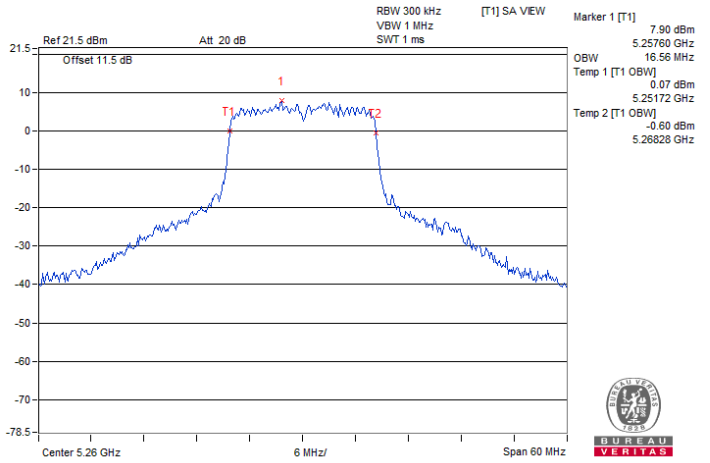
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.92
46	5230	37.92	38.16
54	5270	37.92	38.16
62	5310	38.16	37.68
102	5510	37.92	37.92
110	5550	37.92	37.92
134	5670	37.92	38.16
142 (U-NII-2C)	5710	33.96	34.20
142 (U-NII-3)	5710	3.96	3.96
151	5755	38.16	38.16
159	5795	38.16	38.16

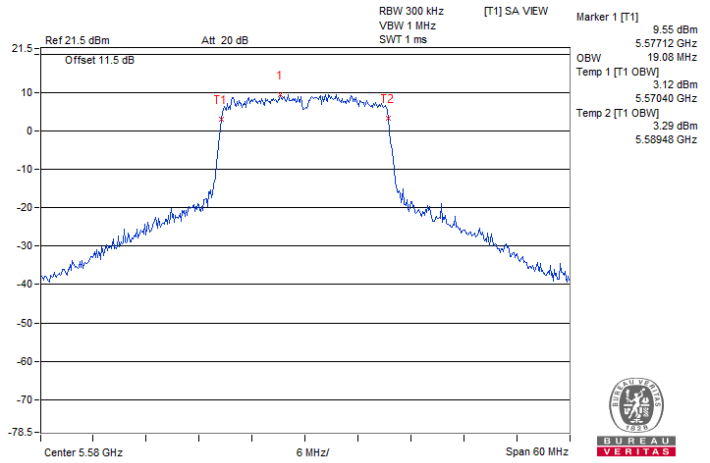
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	76.80
106	5530	77.28	77.28
122	5610	77.76	77.28
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40
155	5775	77.28	77.28

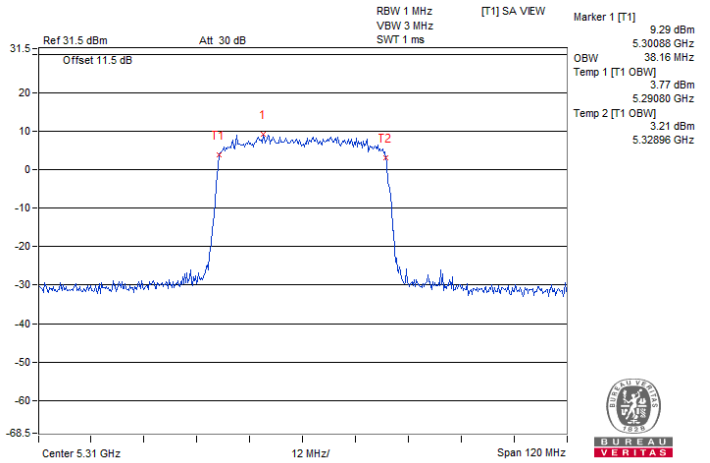
Spectrum Plot of Maximum Value



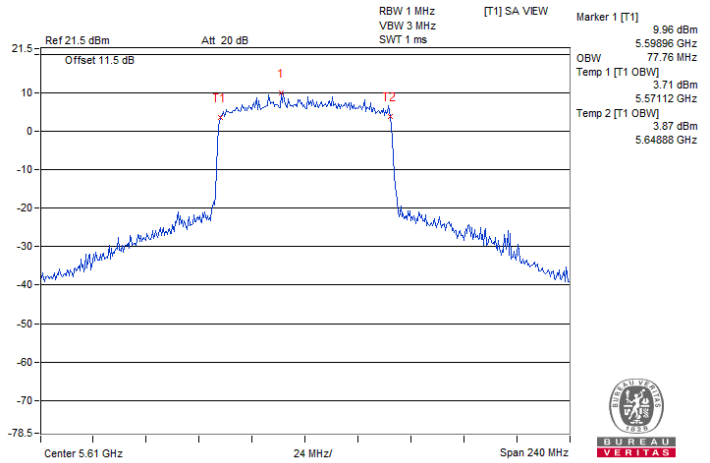
802.11a / Chain 1 : CH 52



802.11ax (HE20) / Chain 0 : CH 116

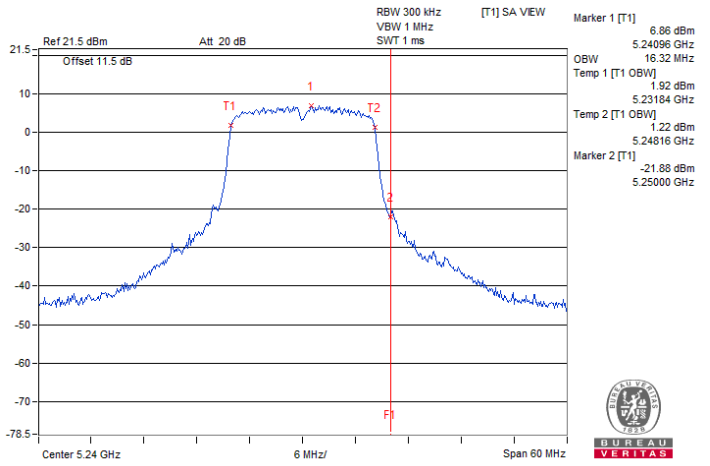


802.11ax (HE40) / Chain 0 : CH 62

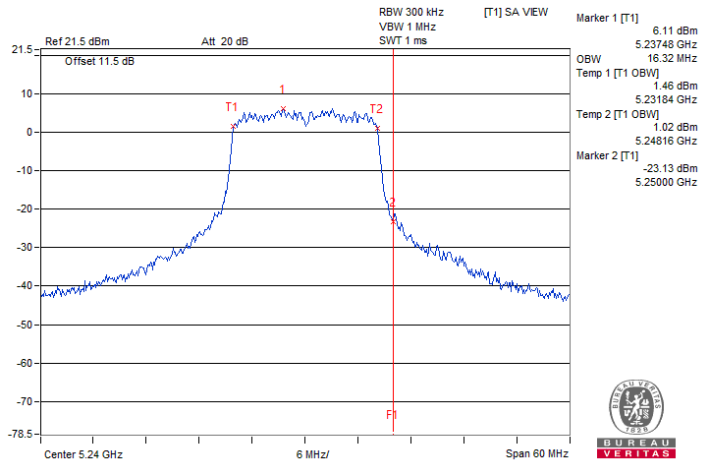


802.11ax (HE80) / Chain 0 : CH 122

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

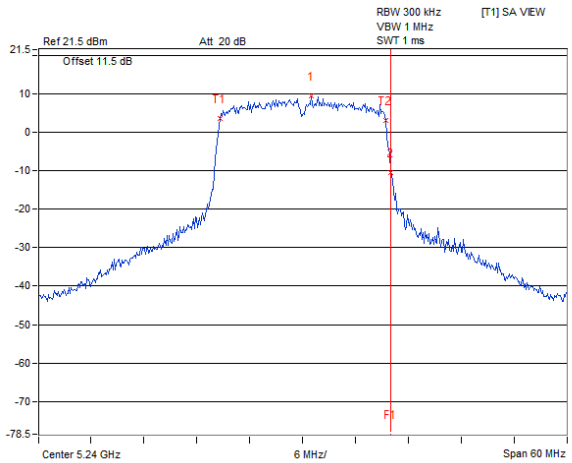


802.11a / Chain 0 : CH 48

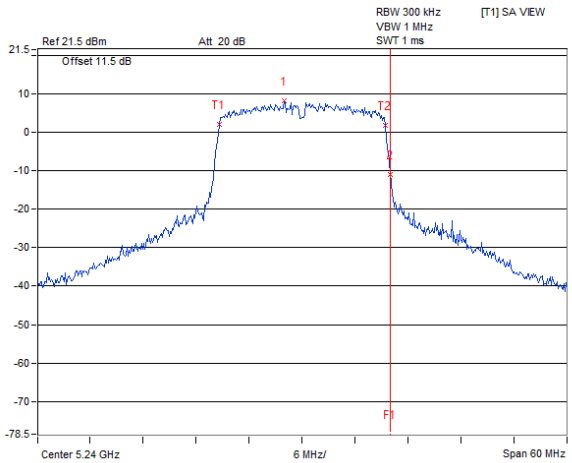


802.11a / Chain 1 : CH 48

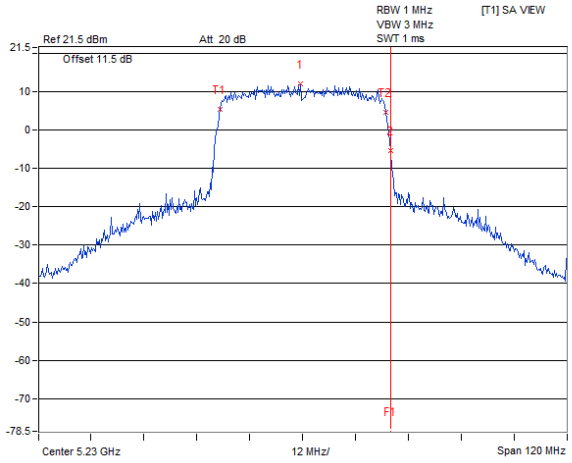
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



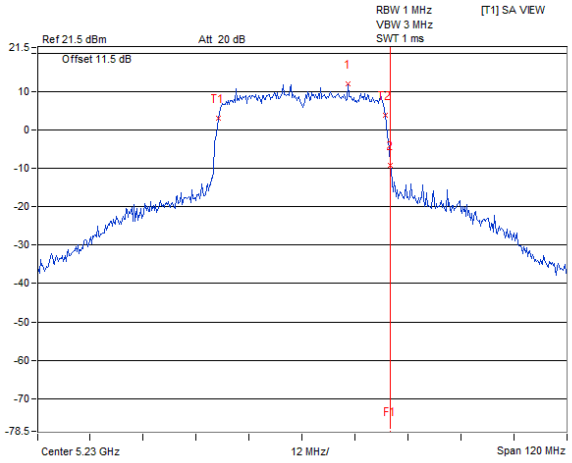
802.11ax (HE20) / Chain 0 : CH 48



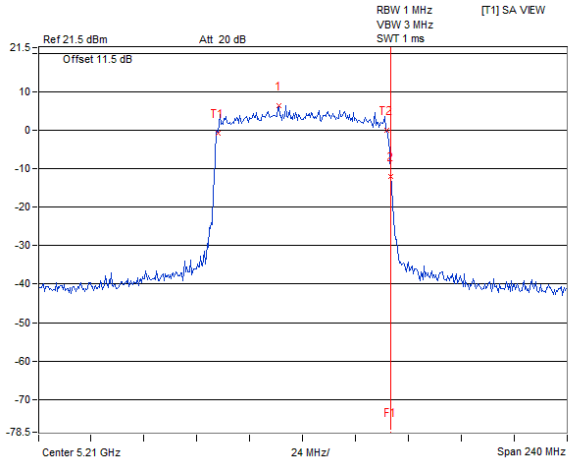
802.11ax (HE20) / Chain 1 : CH 48



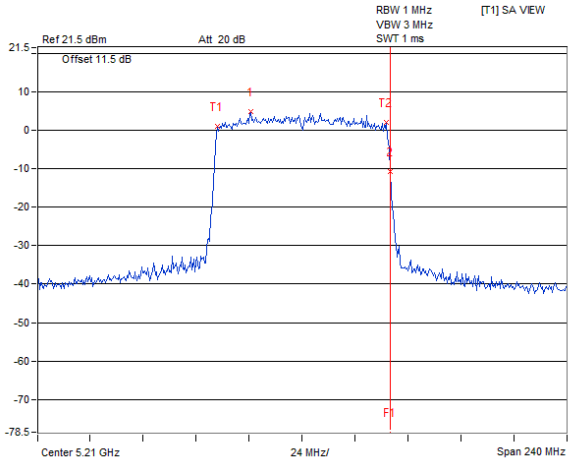
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



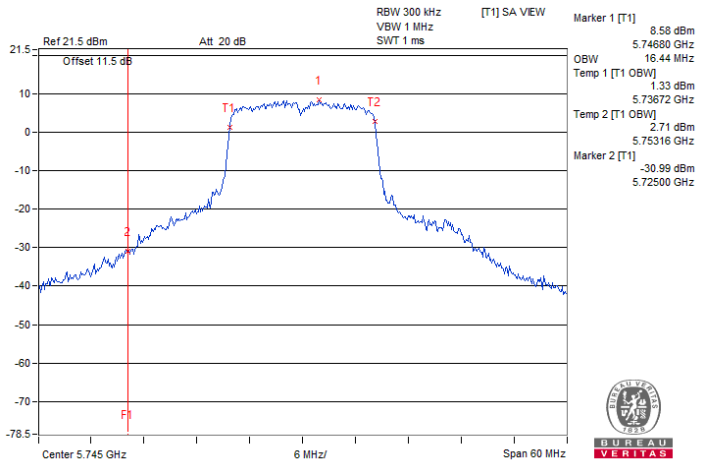
802.11ax (HE80) / Chain 0 : CH 42



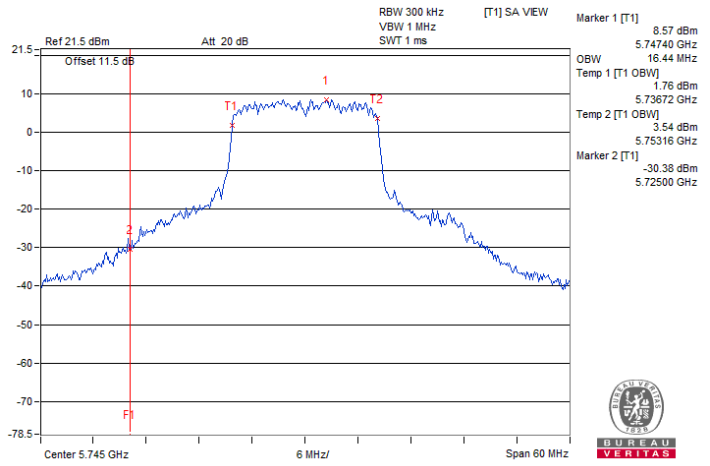
802.11ax (HE80) / Chain 1 : CH 42

Spectrum Plot for nearby DFS band

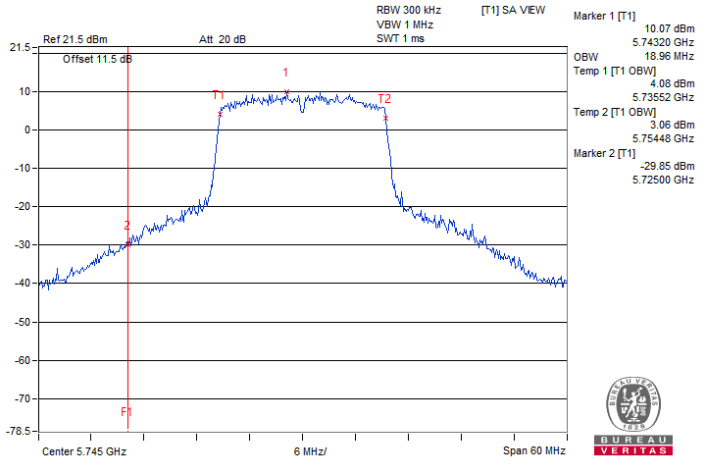
(DFS is required, if 99% OCP straddle into U-NII-2C)



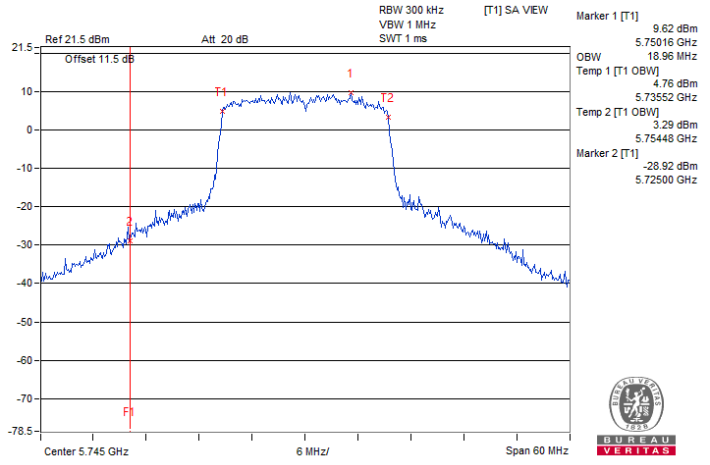
802.11a / Chain 0 : CH 149



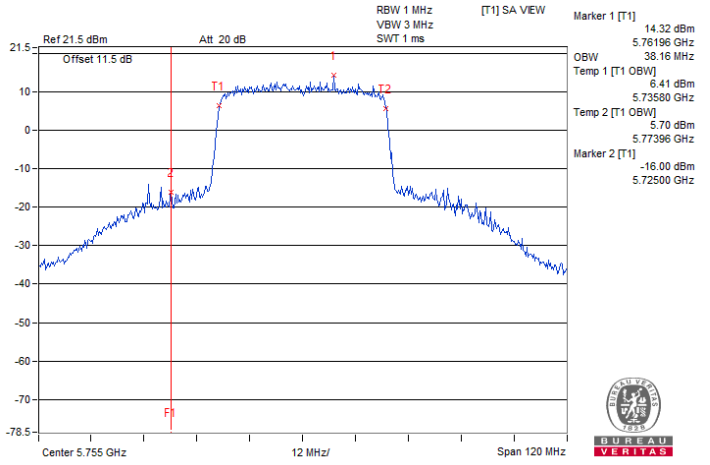
802.11a / Chain 1 : CH 149



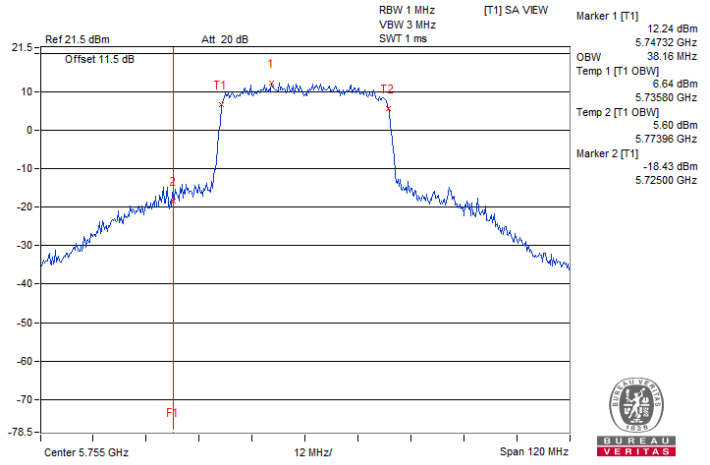
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



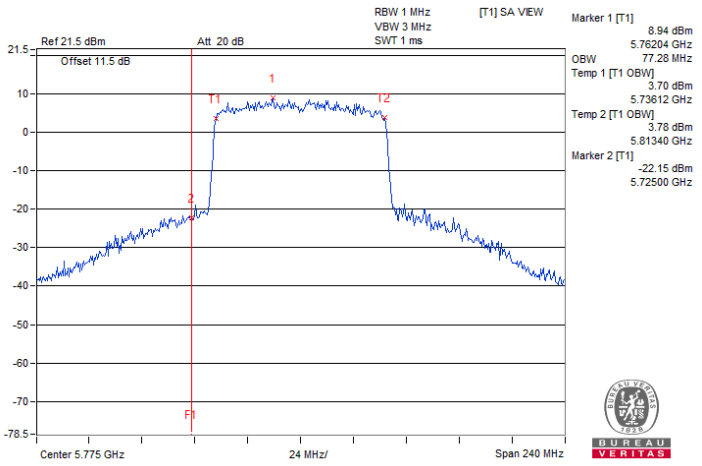
802.11ax (HE40) / Chain 0 : CH 151



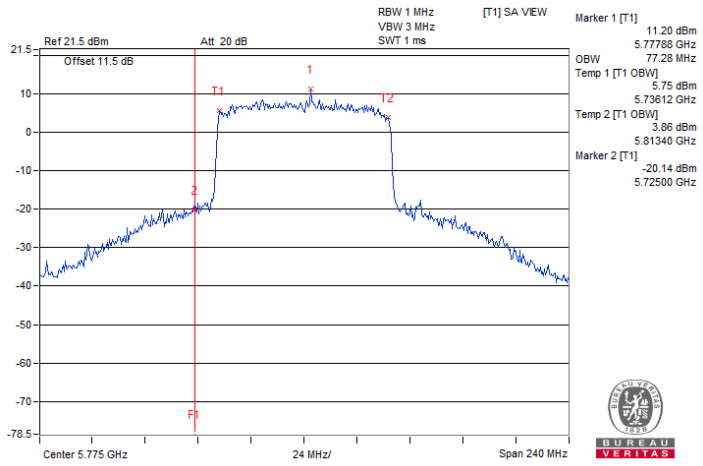
802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band

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



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

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

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	5179.9911	Pass	5179.9908	Pass	5179.9902	Pass	5179.9932	Pass
30	120	5179.9848	Pass	5179.9868	Pass	5179.9836	Pass	5179.983	Pass
20	120	5179.975	Pass	5179.9759	Pass	5179.9759	Pass	5179.9758	Pass
10	120	5180.0192	Pass	5180.0185	Pass	5180.0192	Pass	5180.0171	Pass
0	120	5179.9949	Pass	5179.9965	Pass	5179.9968	Pass	5179.9971	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	5179.9766	Pass	5179.973	Pass	5179.9722	Pass	5179.9758	Pass
	120	5179.975	Pass	5179.9759	Pass	5179.9759	Pass	5179.9758	Pass
	102	5179.9737	Pass	5179.9758	Pass	5179.9735	Pass	5179.9739	Pass

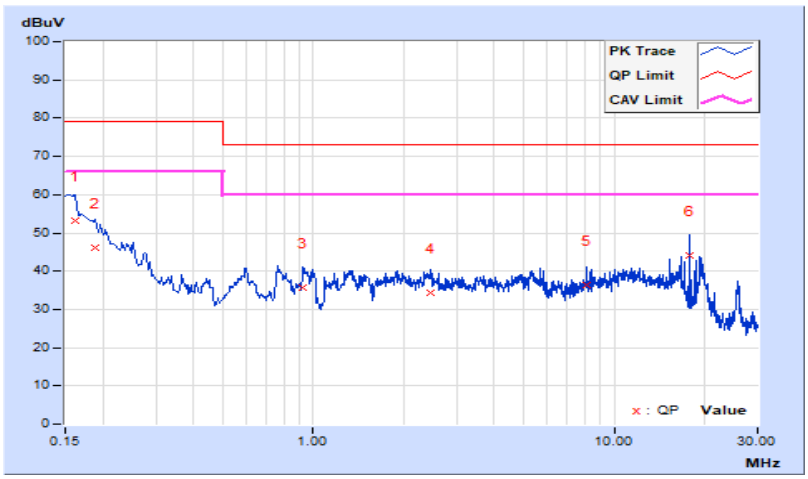
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	240 Vac, 60 Hz	**Environmental Conditions**	24°C, 76% RH
Tested By	Peter Lin		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	**0.16096**	**9.55**	**43.73**	**36.68**	**53.28**	**46.23**	**79.00**	**66.00**	**-25.72**	**-19.77**
2	0.18903	9.58	36.63	19.30	46.21	28.88	79.00	66.00	-32.79	-37.12
3	0.92630	9.62	26.09	16.54	35.71	26.16	73.00	60.00	-37.29	-33.84
4	2.44768	9.67	24.63	17.21	34.30	26.88	73.00	60.00	-38.70	-33.12
5	8.12489	9.95	26.31	17.57	36.26	27.52	73.00	60.00	-36.74	-32.48
6	17.83057	10.26	33.86	13.59	44.12	23.85	73.00	60.00	-28.88	-36.15

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
6. The EUT is Class A product, the non-RF signal please refer to FCC Part 15, Subpart B test report (Report No.: FDBEIU-WTW-P23120563).

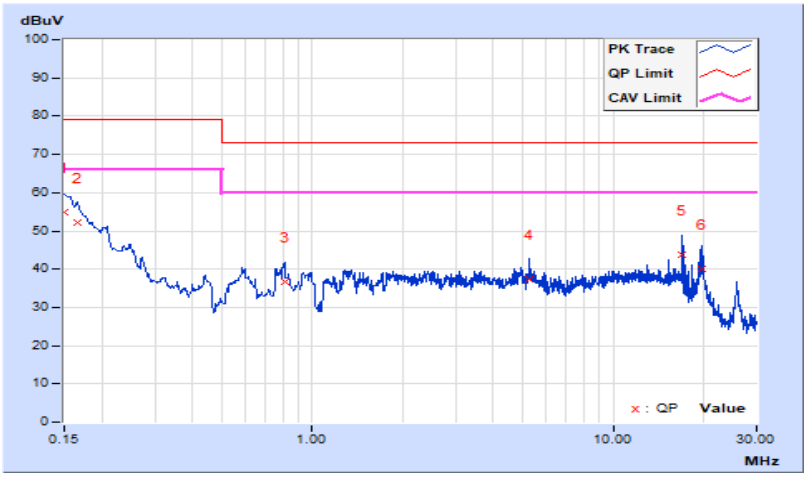


RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	150 kHz ~ 30 MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	240 Vac, 60 Hz	**Environmental Conditions**	24°C, 76% RH
Tested By	Peter Lin		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15002	9.60	45.14	25.79	54.74	35.39	79.00	66.00	-24.26	-30.61
2	0.16526	9.61	42.55	35.42	52.16	45.03	79.00	66.00	-26.84	-20.97
3	0.80897	9.57	27.11	18.07	36.68	27.64	73.00	60.00	-36.32	-32.36
4	5.28550	9.86	27.59	20.60	37.45	30.46	73.00	60.00	-35.55	-29.54
5	16.97699	10.29	33.51	17.09	43.80	27.38	73.00	60.00	-29.20	-32.62
6	19.78567	10.40	29.70	18.58	40.10	28.98	73.00	60.00	-32.90	-31.02

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
6. The EUT is Class A product, the non-RF signal please refer to FCC Part 15, Subpart B test report (Report No.: FDBEIU-WTW-P23120563).



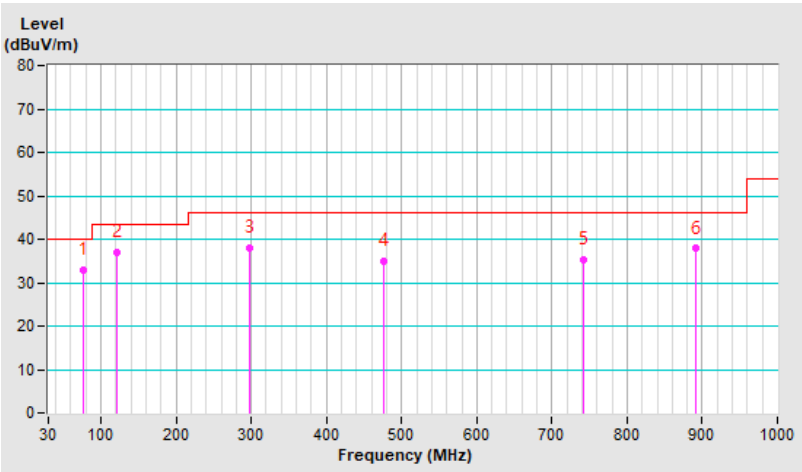
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22°C, 67% RH
Tested By	Peter Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	76.82	32.8 QP	40.0	-7.2	3.91 H	100	45.2	-12.4
2	120.76	37.0 QP	43.5	-6.5	3.63 H	240	47.4	-10.4
3	297.01	38.1 QP	46.0	-7.9	2.12 H	274	44.1	-6.0
4	475.23	34.9 QP	46.0	-11.1	1.15 H	219	36.9	-2.0
5	742.24	35.4 QP	46.0	-10.6	2.30 H	229	31.4	4.0
6	891.00	37.8 QP	46.0	-8.2	2.03 H	211	30.8	7.0

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

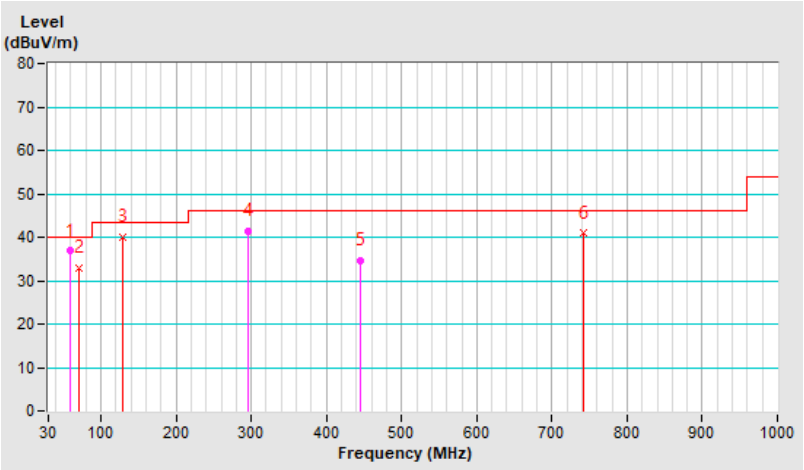


RF Mode	802.11ax (HE40)	Channel	CH 151：5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 67% RH
Tested By	Peter Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**58.36**	**36.8 QP**	**40.0**	**-3.2**	**1.26 V**	**29**	**46.0**	**-9.2**
2	71.66	32.9 QP	40.0	-7.1	1.76 V	195	44.0	-11.1
3	128.80	40.1 QP	43.5	-3.4	1.13 V	144	49.8	-9.7
4	296.69	41.3 QP	46.0	-4.7	2.82 V	243	47.3	-6.0
5	445.03	34.6 QP	46.0	-11.4	2.34 V	301	37.3	-2.7
6	741.76	40.9 QP	46.0	-5.1	3.75 V	108	36.9	4.0

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.9 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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	59.7 PK	74.0	-14.3	1.49 H	338	51.2	8.5
2	5150.00	49.0 AV	54.0	-5.0	1.49 H	338	40.5	8.5
3	*5180.00	101.4 PK			1.49 H	338	92.7	8.7
4	*5180.00	93.7 AV			1.49 H	338	85.0	8.7
5	#10360.00	63.6 PK	68.2	-4.6	1.66 H	131	48.0	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	63.6 PK	74.0	-10.4	2.05 V	264	55.1	8.5
2	5150.00	50.7 AV	54.0	-3.3	2.05 V	264	42.2	8.5
3	*5180.00	110.2 PK			2.05 V	264	101.5	8.7
4	*5180.00	102.4 AV			2.05 V	264	93.7	8.7
5	#10360.00	65.4 PK	68.2	-2.8	1.67 V	230	49.8	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	802.11a	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	101.1 PK			1.51 H	337	92.4	8.7
2	*5200.00	94.0 AV			1.51 H	337	85.3	8.7
3	#10400.00	65.3 PK	68.2	-2.9	1.57 H	130	49.4	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	*5200.00	109.9 PK			2.07 V	264	101.2	8.7
2	*5200.00	102.1 AV			2.07 V	264	93.4	8.7
3	#10400.00	67.1 PK	68.2	-1.1	1.58 V	230	51.2	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 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	102.5 PK			1.56 H	339	93.4	9.1
2	*5240.00	95.1 AV			1.56 H	339	86.0	9.1
3	5350.00	59.8 PK	74.0	-14.2	1.56 H	339	50.4	9.4
4	5350.00	49.2 AV	54.0	-4.8	1.56 H	339	39.8	9.4
5	#10480.00	65.1 PK	68.2	-3.1	1.75 H	131	49.6	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	*5240.00	111.3 PK			2.12 V	265	102.2	9.1
2	*5240.00	103.5 AV			2.12 V	265	94.4	9.1
3	5350.00	60.1 PK	74.0	-13.9	2.12 V	265	50.7	9.4
4	5350.00	49.5 AV	54.0	-4.5	2.12 V	265	40.1	9.4
5	#10480.00	66.9 PK	68.2	-1.3	1.58 V	230	51.4	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 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	59.9 PK	74.0	-14.1	1.54 H	338	51.4	8.5
2	5150.00	49.1 AV	54.0	-4.9	1.54 H	338	40.6	8.5
3	*5260.00	103.0 PK			1.54 H	338	93.9	9.1
4	*5260.00	95.7 AV			1.54 H	338	86.6	9.1
5	#10520.00	64.2 PK	68.2	-4.0	1.70 H	131	48.7	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	5150.00	60.3 PK	74.0	-13.7	2.10 V	264	51.8	8.5
2	5150.00	49.2 AV	54.0	-4.8	2.10 V	264	40.7	8.5
3	*5260.00	110.6 PK			2.10 V	264	101.5	9.1
4	*5260.00	102.4 AV			2.10 V	264	93.3	9.1
5	#10520.00	66.0 PK	68.2	-2.2	1.62 V	231	50.5	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 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	99.9 PK			1.44 H	333	90.6	9.3
2	*5300.00	92.3 AV			1.44 H	333	83.0	9.3
3	10600.00	63.5 PK	74.0	-10.5	1.80 H	136	47.6	15.9
4	10600.00	51.1 AV	54.0	-2.9	1.80 H	136	35.2	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	*5300.00	107.5 PK			2.00 V	259	98.2	9.3
2	*5300.00	99.0 AV			2.00 V	259	89.7	9.3
3	10600.00	65.3 PK	74.0	-8.7	1.66 V	231	49.4	15.9
4	10600.00	52.9 AV	54.0	-1.1	1.66 V	231	37.0	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.

RF Mode	802.11a	Channel	CH 64：5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	99.6 PK			1.45 H	331	90.3	9.3
2	*5320.00	92.2 AV			1.45 H	331	82.9	9.3
3	5350.00	59.8 PK	74.0	-14.2	1.45 H	331	50.4	9.4
4	5350.00	49.4 AV	54.0	-4.6	1.45 H	331	40.0	9.4
5	10640.00	61.1 PK	74.0	-12.9	1.81 H	134	45.1	16.0
6	10640.00	50.9 AV	54.0	-3.1	1.81 H	134	34.9	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	106.9 PK			1.99 V	257	97.6	9.3
2	*5320.00	99.1 AV			1.99 V	257	89.8	9.3
3	5350.00	60.3 PK	74.0	-13.7	1.99 V	257	50.9	9.4
4	5350.00	49.9 AV	54.0	-4.1	1.99 V	257	40.5	9.4
5	10640.00	62.9 PK	74.0	-11.1	1.65 V	232	46.9	16.0
6	10640.00	52.7 AV	54.0	-1.3	1.65 V	232	36.7	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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	60.4 PK	74.0	-13.6	1.33 H	244	51.1	9.3
2	5460.00	48.8 AV	54.0	-5.2	1.33 H	244	39.5	9.3
3	#5470.00	59.9 PK	68.2	-8.3	1.33 H	244	50.7	9.2
4	*5500.00	102.3 PK			1.33 H	244	93.0	9.3
5	*5500.00	94.7 AV			1.33 H	244	85.4	9.3
6	11000.00	61.1 PK	74.0	-12.9	1.67 H	226	44.5	16.6
7	11000.00	49.6 AV	54.0	-4.4	1.67 H	226	33.0	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	60.6 PK	74.0	-13.4	2.15 V	296	51.3	9.3
2	5460.00	49.6 AV	54.0	-4.4	2.15 V	296	40.3	9.3
3	#5470.00	60.6 PK	68.2	-7.6	2.15 V	296	51.4	9.2
4	*5500.00	108.5 PK			2.15 V	296	99.2	9.3
5	*5500.00	100.5 AV			2.15 V	296	91.2	9.3
6	11000.00	64.7 PK	74.0	-9.3	3.73 V	174	48.1	16.6
7	11000.00	53.0 AV	54.0	-1.0	3.73 V	174	36.4	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	802.11a	**Channel**	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	104.9 PK			1.36 H	248	95.7	9.2
2	*5580.00	96.8 AV			1.36 H	248	87.6	9.2
3	11160.00	60.0 PK	74.0	-14.0	1.65 H	231	42.7	17.3
4	11160.00	49.7 AV	54.0	-4.3	1.65 H	231	32.4	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	110.6 PK			1.85 V	299	101.4	9.2
2	*5580.00	102.9 AV			1.85 V	299	93.7	9.2
3	11160.00	63.1 PK	74.0	-10.9	3.34 V	171	45.8	17.3
4	11160.00	52.8 AV	54.0	-1.2	3.34 V	171	35.5	17.3

Remarks:

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

RF Mode	802.11a	**Channel**	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	102.8 PK			1.39 H	251	94.3	8.5
2	*5700.00	96.4 AV			1.39 H	251	87.9	8.5
3	#5725.00	62.8 PK	68.2	-5.4	1.39 H	251	54.2	8.6
4	11400.00	59.0 PK	74.0	-15.0	1.52 H	231	42.1	16.9
5	11400.00	48.1 AV	54.0	-5.9	1.52 H	231	31.2	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	*5700.00	108.8 PK			1.84 V	306	100.3	8.5
2	*5700.00	101.6 AV			1.84 V	306	93.1	8.5
3	#5725.00	66.4 PK	68.2	-1.8	1.84 V	306	57.8	8.6
4	11400.00	62.6 PK	74.0	-11.4	2.19 V	188	45.7	16.9
5	11400.00	51.5 AV	54.0	-2.5	2.19 V	188	34.6	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 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	#5470.00	60.1 PK	68.2	-8.1	3.63 H	293	50.9	9.2
2	*5720.00	104.5 PK			3.63 H	293	96.0	8.5
3	*5720.00	96.4 AV			3.63 H	293	87.9	8.5
4	11440.00	60.3 PK	74.0	-13.7	1.51 H	125	43.2	17.1
5	11440.00	49.7 AV	54.0	-4.3	1.51 H	125	32.6	17.1
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	#5470.00	60.4 PK	68.2	-7.8	2.03 V	305	51.2	9.2
2	*5720.00	110.6 PK			2.03 V	305	102.1	8.5
3	*5720.00	102.7 AV			2.03 V	305	94.2	8.5
4	11440.00	63.6 PK	74.0	-10.4	3.70 V	202	46.5	17.1
5	**11440.00**	**53.1 AV**	**54.0**	**-0.9**	**3.70 V**	**202**	**36.0**	**17.1**

Remarks:

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

RF Mode	802.11a	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5631.24	58.6 PK	68.2	-9.6	1.31 H	252	49.8	8.8
2	*5745.00	103.9 PK			1.31 H	252	95.3	8.6
3	*5745.00	96.2 AV			1.31 H	252	87.6	8.6
4	#5975.85	59.6 PK	68.2	-8.6	1.31 H	252	50.9	8.7
5	11490.00	59.9 PK	74.0	-14.1	1.56 H	241	42.5	17.4
6	11490.00	48.6 AV	54.0	-5.4	1.56 H	241	31.2	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	#5640.43	59.1 PK	68.2	-9.1	2.62 V	297	50.3	8.8
2	*5745.00	109.6 PK			2.62 V	297	101.0	8.6
3	*5745.00	102.1 AV			2.62 V	297	93.5	8.6
4	#5937.78	60.4 PK	68.2	-7.8	2.62 V	297	51.6	8.8
5	11490.00	62.8 PK	74.0	-11.2	3.84 V	201	45.4	17.4
6	11490.00	51.7 AV	54.0	-2.3	3.84 V	201	34.3	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	802.11a	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5556.51	59.2 PK	68.2	-9.0	1.28 H	248	49.9	9.3
2	*5785.00	103.3 PK			1.28 H	248	94.9	8.4
3	*5785.00	96.3 AV			1.28 H	248	87.9	8.4
4	#5982.06	59.5 PK	68.2	-8.7	1.28 H	248	50.8	8.7
5	11570.00	58.5 PK	74.0	-15.5	1.51 H	237	41.0	17.5
6	11570.00	47.7 AV	54.0	-6.3	1.51 H	237	30.2	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	#5615.89	58.8 PK	68.2	-9.4	2.67 V	297	49.9	8.9
2	*5785.00	109.5 PK			2.67 V	297	101.1	8.4
3	*5785.00	101.9 AV			2.67 V	297	93.5	8.4
4	#5985.72	59.5 PK	68.2	-8.7	2.67 V	297	50.8	8.7
5	11570.00	61.5 PK	74.0	-12.5	3.88 V	201	44.0	17.5
6	11570.00	50.9 AV	54.0	-3.1	3.88 V	201	33.4	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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5578.02	59.5 PK	68.2	-8.7	1.30 H	244	50.3	9.2
2	*5825.00	104.0 PK			1.30 H	244	95.5	8.5
3	*5825.00	95.8 AV			1.30 H	244	87.3	8.5
4	#5960.58	60.0 PK	68.2	-8.2	1.30 H	244	51.2	8.8
5	11650.00	58.6 PK	74.0	-15.4	1.48 H	232	41.1	17.5
6	11650.00	47.8 AV	54.0	-6.2	1.48 H	232	30.3	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	#5571.34	58.8 PK	68.2	-9.4	2.63 V	300	49.7	9.1
2	*5825.00	109.2 PK			2.63 V	300	100.7	8.5
3	*5825.00	101.7 AV			2.63 V	300	93.2	8.5
4	#5983.44	59.2 PK	68.2	-9.0	2.63 V	300	50.5	8.7
5	11650.00	61.6 PK	74.0	-12.4	3.82 V	198	44.1	17.5
6	11650.00	50.1 AV	54.0	-3.9	3.82 V	198	32.6	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 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	60.7 PK	74.0	-13.3	1.49 H	337	52.2	8.5
2	5150.00	49.9 AV	54.0	-4.1	1.49 H	337	41.4	8.5
3	*5180.00	103.5 PK			1.49 H	337	94.8	8.7
4	*5180.00	92.8 AV			1.49 H	337	84.1	8.7
5	#10360.00	63.8 PK	68.2	-4.4	1.65 H	132	48.2	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	64.0 PK	74.0	-10.0	2.05 V	265	55.5	8.5
2	5150.00	52.7 AV	54.0	-1.3	2.05 V	265	44.2	8.5
3	*5180.00	111.6 PK			2.05 V	265	102.9	8.7
4	*5180.00	101.0 AV			2.05 V	265	92.3	8.7
5	#10360.00	65.6 PK	68.2	-2.6	1.66 V	229	50.0	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 (HE20)	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	103.4 PK			1.53 H	335	94.7	8.7
2	*5200.00	92.9 AV			1.53 H	335	84.2	8.7
3	#10400.00	64.1 PK	68.2	-4.1	1.75 H	130	48.2	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	*5200.00	112.2 PK			2.09 V	261	103.5	8.7
2	*5200.00	101.6 AV			2.09 V	261	92.9	8.7
3	#10400.00	66.6 PK	68.2	-1.6	1.58 V	229	50.7	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 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	105.9 PK			1.57 H	337	96.8	9.1
2	*5240.00	95.4 AV			1.57 H	337	86.3	9.1
3	5350.00	60.3 PK	74.0	-13.7	1.57 H	337	50.9	9.4
4	5350.00	49.4 AV	54.0	-4.6	1.57 H	337	40.0	9.4
5	#10480.00	65.2 PK	68.2	-3.0	1.74 H	131	49.7	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	*5240.00	114.6 PK			2.13 V	264	105.5	9.1
2	*5240.00	103.6 AV			2.13 V	264	94.5	9.1
3	5350.00	60.8 PK	74.0	-13.2	2.13 V	264	51.4	9.4
4	5350.00	49.7 AV	54.0	-4.3	2.13 V	264	40.3	9.4
5	#10480.00	67.0 PK	68.2	-1.2	1.60 V	229	51.5	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 52：5260 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	59.5 PK	74.0	-14.5	1.54 H	339	51.0	8.5
2	5150.00	48.6 AV	54.0	-5.4	1.54 H	339	40.1	8.5
3	*5260.00	105.7 PK			1.54 H	339	96.6	9.1
4	*5260.00	94.8 AV			1.54 H	339	85.7	9.1
5	#10520.00	63.8 PK	68.2	-4.4	1.90 H	142	48.3	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	5150.00	60.1 PK	74.0	-13.9	2.10 V	265	51.6	8.5
2	5150.00	49.2 AV	54.0	-4.8	2.10 V	265	40.7	8.5
3	*5260.00	112.7 PK			2.10 V	265	103.6	9.1
4	*5260.00	102.0 AV			2.10 V	265	92.9	9.1
5	#10520.00	65.6 PK	68.2	-2.6	1.76 V	237	50.1	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 60：5300 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	101.8 PK			1.43 H	334	92.5	9.3
2	*5300.00	91.9 AV			1.43 H	334	82.6	9.3
3	10600.00	62.1 PK	74.0	-11.9	1.79 H	137	46.2	15.9
4	10600.00	50.9 AV	54.0	-3.1	1.79 H	137	35.0	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	*5300.00	109.4 PK			1.99 V	258	100.1	9.3
2	*5300.00	98.6 AV			1.99 V	258	89.3	9.3
3	10600.00	63.9 PK	74.0	-10.1	1.72 V	231	48.0	15.9
4	10600.00	52.9 AV	54.0	-1.1	1.72 V	231	37.0	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.

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	102.5 PK			1.43 H	330	93.2	9.3
2	*5320.00	91.5 AV			1.43 H	330	82.2	9.3
3	5350.00	60.1 PK	74.0	-13.9	1.43 H	330	50.7	9.4
4	5350.00	49.2 AV	54.0	-4.8	1.43 H	330	39.8	9.4
5	10640.00	61.8 PK	74.0	-12.2	1.81 H	138	45.8	16.0
6	10640.00	51.0 AV	54.0	-3.0	1.81 H	138	35.0	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			2.01 V	256	100.6	9.3
2	*5320.00	98.9 AV			2.01 V	256	89.6	9.3
3	5350.00	60.7 PK	74.0	-13.3	2.01 V	256	51.3	9.4
4	5350.00	49.8 AV	54.0	-4.2	2.01 V	256	40.4	9.4
5	10640.00	63.6 PK	74.0	-10.4	1.67 V	233	47.6	16.0
6	10640.00	52.8 AV	54.0	-1.2	1.67 V	233	36.8	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 (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	1.29 H	251	49.6	9.3
2	5460.00	48.3 AV	54.0	-5.7	1.29 H	251	39.0	9.3
3	#5470.00	59.8 PK	68.2	-8.4	1.29 H	251	50.6	9.2
4	*5500.00	104.9 PK			1.29 H	251	95.6	9.3
5	*5500.00	93.9 AV			1.29 H	251	84.6	9.3
6	11000.00	60.8 PK	74.0	-13.2	1.53 H	229	44.2	16.6
7	11000.00	49.9 AV	54.0	-4.1	1.53 H	229	33.3	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	60.0 PK	74.0	-14.0	1.93 V	299	50.7	9.3
2	5460.00	48.8 AV	54.0	-5.2	1.93 V	299	39.5	9.3
3	#5470.00	61.5 PK	68.2	-6.7	1.93 V	299	52.3	9.2
4	*5500.00	110.6 PK			1.93 V	299	101.3	9.3
5	*5500.00	99.5 AV			1.93 V	299	90.2	9.3
6	11000.00	64.3 PK	74.0	-9.7	3.56 V	171	47.7	16.6
7	11000.00	52.8 AV	54.0	-1.2	3.56 V	171	36.2	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 (HE20)	**Channel**	CH 116：5580 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	106.8 PK			1.34 H	246	97.6	9.2
2	*5580.00	96.7 AV			1.34 H	246	87.5	9.2
3	11160.00	60.6 PK	74.0	-13.4	1.55 H	222	43.3	17.3
4	11160.00	49.5 AV	54.0	-4.5	1.55 H	222	32.2	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5580.00	112.6 PK			1.90 V	300	103.4	9.2
2	*5580.00	102.3 AV			1.90 V	300	93.1	9.2
3	11160.00	63.5 PK	74.0	-10.5	3.34 V	198	46.2	17.3
4	11160.00	52.4 AV	54.0	-1.6	3.34 V	198	35.1	17.3

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 140：5700 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	107.0 PK			1.29 H	250	98.5	8.5
2	*5700.00	95.8 AV			1.29 H	250	87.3	8.5
3	#5725.00	63.9 PK	68.2	-4.3	1.29 H	250	55.3	8.6
4	11400.00	59.1 PK	74.0	-14.9	1.65 H	230	42.2	16.9
5	11400.00	47.1 AV	54.0	-6.9	1.65 H	230	30.2	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	*5700.00	112.6 PK			2.01 V	306	104.1	8.5
2	*5700.00	101.9 AV			2.01 V	306	93.4	8.5
3	#5725.00	67.1 PK	68.2	-1.1	2.01 V	306	58.5	8.6
4	11400.00	62.1 PK	74.0	-11.9	2.37 V	187	45.2	16.9
5	11400.00	50.2 AV	54.0	-3.8	2.37 V	187	33.3	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 144：5720 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	#5470.00	60.3 PK	68.2	-7.9	3.62 H	293	51.1	9.2
2	*5720.00	107.2 PK			3.62 H	293	98.7	8.5
3	*5720.00	96.5 AV			3.62 H	293	88.0	8.5
4	11440.00	59.2 PK	74.0	-14.8	1.50 H	124	42.1	17.1
5	11440.00	48.5 AV	54.0	-5.5	1.50 H	124	31.4	17.1
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	#5470.00	60.8 PK	68.2	-7.4	2.03 V	305	51.6	9.2
2	*5720.00	112.8 PK			2.03 V	305	104.3	8.5
3	*5720.00	101.3 AV			2.03 V	305	92.8	8.5
4	11440.00	62.7 PK	74.0	-11.3	3.70 V	203	45.6	17.1
5	11440.00	51.9 AV	54.0	-2.1	3.70 V	203	34.8	17.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5622.56	59.4 PK	68.2	-8.8	1.27 H	240	50.6	8.8
2	*5745.00	107.1 PK			1.27 H	240	98.5	8.6
3	*5745.00	96.8 AV			1.27 H	240	88.2	8.6
4	#6001.02	59.9 PK	68.2	-8.3	1.27 H	240	51.2	8.7
5	11490.00	58.5 PK	74.0	-15.5	1.56 H	241	41.1	17.4
6	11490.00	47.5 AV	54.0	-6.5	1.56 H	241	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	#5558.86	58.9 PK	68.2	-9.3	2.84 V	296	49.7	9.2
2	*5745.00	113.5 PK			2.84 V	296	104.9	8.6
3	*5745.00	102.6 AV			2.84 V	296	94.0	8.6
4	#6007.10	59.2 PK	68.2	-9.0	2.84 V	296	50.4	8.8
5	11490.00	62.9 PK	74.0	-11.1	3.52 V	193	45.5	17.4
6	11490.00	50.8 AV	54.0	-3.2	3.52 V	193	33.4	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 (HE20)	Channel	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5627.40	59.2 PK	68.2	-9.0	1.33 H	238	50.4	8.8
2	*5785.00	103.7 PK			1.33 H	238	95.3	8.4
3	*5785.00	96.0 AV			1.33 H	238	87.6	8.4
4	#5975.09	59.7 PK	68.2	-8.5	1.33 H	238	51.0	8.7
5	11570.00	59.7 PK	74.0	-14.3	1.52 H	232	42.2	17.5
6	11570.00	47.7 AV	54.0	-6.3	1.52 H	232	30.2	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	#5615.60	59.6 PK	68.2	-8.6	2.83 V	296	50.7	8.9
2	*5785.00	112.6 PK			2.83 V	296	104.2	8.4
3	*5785.00	101.8 AV			2.83 V	296	93.4	8.4
4	#5992.50	60.8 PK	68.2	-7.4	2.83 V	296	52.1	8.7
5	11570.00	62.7 PK	74.0	-11.3	3.62 V	202	45.2	17.5
6	11570.00	51.1 AV	54.0	-2.9	3.62 V	202	33.6	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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5566.14	59.2 PK	68.2	-9.0	1.31 H	239	50.0	9.2
2	*5825.00	106.6 PK			1.31 H	239	98.1	8.5
3	*5825.00	95.7 AV			1.31 H	239	87.2	8.5
4	#5957.47	59.1 PK	68.2	-9.1	1.31 H	239	50.3	8.8
5	11650.00	59.8 PK	74.0	-14.2	1.48 H	229	42.3	17.5
6	11650.00	48.0 AV	54.0	-6.0	1.48 H	229	30.5	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	#5632.00	60.2 PK	68.2	-8.0	2.86 V	297	51.4	8.8
2	*5825.00	112.6 PK			2.86 V	297	104.1	8.5
3	*5825.00	101.6 AV			2.86 V	297	93.1	8.5
4	#5980.96	60.5 PK	68.2	-7.7	2.86 V	297	51.8	8.7
5	11650.00	63.5 PK	74.0	-10.5	3.89 V	198	46.0	17.5
6	11650.00	51.6 AV	54.0	-2.4	3.89 V	198	34.1	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 (HE40)	**Channel**	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	62.4 PK	74.0	-11.6	1.48 H	336	53.9	8.5
2	5150.00	50.3 AV	54.0	-3.7	1.48 H	336	41.8	8.5
3	*5190.00	100.5 PK			1.48 H	336	91.8	8.7
4	*5190.00	89.6 AV			1.48 H	336	80.9	8.7
5	#10380.00	60.5 PK	68.2	-7.7	1.66 H	131	44.8	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	66.0 PK	74.0	-8.0	2.06 V	266	57.5	8.5
2	5150.00	53.0 AV	54.0	-1.0	2.06 V	266	44.5	8.5
3	*5190.00	108.2 PK			2.06 V	266	99.5	8.7
4	*5190.00	97.7 AV			2.06 V	266	89.0	8.7
5	#10380.00	62.3 PK	68.2	-5.9	1.67 V	230	46.6	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 (HE40)	**Channel**	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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			1.51 H	338	95.5	9.0
2	*5230.00	93.8 AV			1.51 H	338	84.8	9.0
3	5350.00	60.2 PK	74.0	-13.8	1.51 H	338	50.8	9.4
4	5350.00	49.8 AV	54.0	-4.2	1.51 H	338	40.4	9.4
5	#10460.00	64.0 PK	68.2	-4.2	1.63 H	131	48.4	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	*5230.00	112.1 PK			2.07 V	266	103.1	9.0
2	*5230.00	101.1 AV			2.07 V	266	92.1	9.0
3	5350.00	60.4 PK	74.0	-13.6	2.07 V	266	51.0	9.4
4	5350.00	50.0 AV	54.0	-4.0	2.07 V	266	40.6	9.4
5	#10460.00	65.8 PK	68.2	-2.4	1.68 V	228	50.2	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 54：5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	60.0 PK	74.0	-14.0	1.50 H	328	51.5	8.5
2	5150.00	49.1 AV	54.0	-4.9	1.50 H	328	40.6	8.5
3	*5270.00	104.8 PK			1.50 H	328	95.6	9.2
4	*5270.00	93.4 AV			1.50 H	328	84.2	9.2
5	#10540.00	63.0 PK	68.2	-5.2	1.84 H	137	47.4	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	60.4 PK	74.0	-13.6	2.06 V	264	51.9	8.5
2	5150.00	49.4 AV	54.0	-4.6	2.06 V	264	40.9	8.5
3	*5270.00	111.2 PK			2.06 V	264	102.0	9.2
4	*5270.00	100.0 AV			2.06 V	264	90.8	9.2
5	#10540.00	64.8 PK	68.2	-3.4	1.70 V	232	49.2	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 62：5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	101.8 PK			1.43 H	333	92.5	9.3
2	*5310.00	90.4 AV			1.43 H	333	81.1	9.3
3	5350.00	61.3 PK	74.0	-12.7	1.43 H	333	51.9	9.4
4	5350.00	50.9 AV	54.0	-3.1	1.43 H	333	41.5	9.4
5	10620.00	62.3 PK	74.0	-11.7	1.79 H	135	46.4	15.9
6	10620.00	49.9 AV	54.0	-4.1	1.79 H	135	34.0	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	*5310.00	108.2 PK			1.99 V	258	98.9	9.3
2	*5310.00	97.4 AV			1.99 V	258	88.1	9.3
3	5350.00	64.7 PK	74.0	-9.3	1.99 V	258	55.3	9.4
4	5350.00	52.5 AV	54.0	-1.5	1.99 V	258	43.1	9.4
5	10620.00	64.1 PK	74.0	-9.9	1.67 V	232	48.2	15.9
6	10620.00	51.7 AV	54.0	-2.3	1.67 V	232	35.8	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.

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	1.30 H	246	50.2	9.3
2	5460.00	48.7 AV	54.0	-5.3	1.30 H	246	39.4	9.3
3	#5470.00	62.4 PK	68.2	-5.8	1.30 H	246	53.2	9.2
4	*5510.00	101.7 PK			1.30 H	246	92.3	9.4
5	*5510.00	90.9 AV			1.30 H	246	81.5	9.4
6	11020.00	58.7 PK	74.0	-15.3	1.62 H	228	42.1	16.6
7	11020.00	46.6 AV	54.0	-7.4	1.62 H	228	30.0	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	62.1 PK	74.0	-11.9	2.06 V	296	52.8	9.3
2	5460.00	50.4 AV	54.0	-3.6	2.06 V	296	41.1	9.3
3	#5470.00	67.1 PK	68.2	-1.1	2.06 V	296	57.9	9.2
4	*5510.00	107.8 PK			2.06 V	296	98.4	9.4
5	*5510.00	97.1 AV			2.06 V	296	87.7	9.4
6	11020.00	60.6 PK	74.0	-13.4	3.64 V	176	44.0	16.6
7	11020.00	49.2 AV	54.0	-4.8	3.64 V	176	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 (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	103.6 PK			1.25 H	241	94.3	9.3
2	*5550.00	94.9 AV			1.25 H	241	85.6	9.3
3	11100.00	59.2 PK	74.0	-14.8	1.59 H	236	42.4	16.8
4	11100.00	46.9 AV	54.0	-7.1	1.59 H	236	30.1	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	*5550.00	110.2 PK			2.42 V	293	100.9	9.3
2	*5550.00	99.2 AV			2.42 V	293	89.9	9.3
3	11100.00	62.9 PK	74.0	-11.1	2.60 V	183	46.1	16.8
4	11100.00	51.4 AV	54.0	-2.6	2.60 V	183	34.6	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.

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	104.0 PK			1.28 H	243	95.4	8.6
2	*5670.00	92.9 AV			1.28 H	243	84.3	8.6
3	#5725.00	59.9 PK	68.2	-8.3	1.28 H	243	51.3	8.6
4	11340.00	57.1 PK	74.0	-16.9	1.62 H	244	40.1	17.0
5	11340.00	46.7 AV	54.0	-7.3	1.62 H	244	29.7	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	*5670.00	110.0 PK			1.84 V	301	101.4	8.6
2	*5670.00	98.7 AV			1.84 V	301	90.1	8.6
3	#5725.00	64.4 PK	68.2	-3.8	1.84 V	301	55.8	8.6
4	11340.00	60.5 PK	74.0	-13.5	2.46 V	188	43.5	17.0
5	11340.00	49.5 AV	54.0	-4.5	2.46 V	188	32.5	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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	**Channel**	CH 142：5710 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	#5470.00	60.2 PK	68.2	-8.0	3.64 H	293	51.0	9.2
2	*5710.00	105.1 PK			3.64 H	293	96.6	8.5
3	*5710.00	94.8 AV			3.64 H	293	86.3	8.5
4	11420.00	57.3 PK	74.0	-16.7	1.52 H	124	40.3	17.0
5	11420.00	46.7 AV	54.0	-7.3	1.52 H	124	29.7	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	#5470.00	60.7 PK	68.2	-7.5	2.03 V	306	51.5	9.2
2	*5710.00	111.2 PK			2.03 V	306	102.7	8.5
3	*5710.00	100.4 AV			2.03 V	306	91.9	8.5
4	11420.00	60.6 PK	74.0	-13.4	3.72 V	202	43.6	17.0
5	11420.00	50.1 AV	54.0	-3.9	3.72 V	202	33.1	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.
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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.14	59.9 PK	68.2	-8.3	1.27 H	236	51.0	8.9
2	*5755.00	105.1 PK			1.27 H	236	96.5	8.6
3	*5755.00	93.8 AV			1.27 H	236	85.2	8.6
4	#5984.10	59.3 PK	68.2	-8.9	1.27 H	236	50.6	8.7
5	11510.00	58.6 PK	74.0	-15.4	1.52 H	233	41.1	17.5
6	11510.00	47.8 AV	54.0	-6.2	1.52 H	233	30.3	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	#5606.98	59.0 PK	68.2	-9.2	2.94 V	294	50.1	8.9
2	*5755.00	111.4 PK			2.94 V	294	102.8	8.6
3	*5755.00	100.3 AV			2.94 V	294	91.7	8.6
4	#5949.55	58.9 PK	68.2	-9.3	2.94 V	294	50.1	8.8
5	11510.00	62.4 PK	74.0	-11.6	3.88 V	202	44.9	17.5
6	11510.00	50.7 AV	54.0	-3.3	3.88 V	202	33.2	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 (HE40)	Channel	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5572.55	59.0 PK	68.2	-9.2	1.50 H	230	49.9	9.1
2	*5795.00	105.0 PK			1.50 H	230	96.6	8.4
3	*5795.00	94.2 AV			1.50 H	230	85.8	8.4
4	#6002.90	59.7 PK	68.2	-8.5	1.50 H	230	51.0	8.7
5	11590.00	57.6 PK	74.0	-16.4	1.55 H	240	40.1	17.5
6	11590.00	47.5 AV	54.0	-6.5	1.55 H	240	30.0	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	#5602.55	59.9 PK	68.2	-8.3	2.93 V	293	51.0	8.9
2	*5795.00	110.0 PK			2.93 V	293	101.6	8.4
3	*5795.00	99.5 AV			2.93 V	293	91.1	8.4
4	#5973.30	59.6 PK	68.2	-8.6	2.93 V	293	50.9	8.7
5	11590.00	63.1 PK	74.0	-10.9	3.90 V	197	45.6	17.5
6	11590.00	51.1 AV	54.0	-2.9	3.90 V	197	33.6	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 (HE80)	Channel	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.47 H	339	53.6	8.5
2	5150.00	50.6 AV	54.0	-3.4	1.47 H	339	42.1	8.5
3	*5210.00	98.6 PK			1.47 H	339	89.8	8.8
4	*5210.00	87.8 AV			1.47 H	339	79.0	8.8
5	5350.00	60.6 PK	74.0	-13.4	1.47 H	339	51.2	9.4
6	5350.00	49.7 AV	54.0	-4.3	1.47 H	339	40.3	9.4
7	#10420.00	58.4 PK	68.2	-9.8	1.67 H	134	42.6	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.0 PK	74.0	-9.0	2.07 V	267	56.5	8.5
2	5150.00	52.8 AV	54.0	-1.2	2.07 V	267	44.3	8.5
3	*5210.00	106.1 PK			2.07 V	267	97.3	8.8
4	*5210.00	94.9 AV			2.07 V	267	86.1	8.8
5	5350.00	60.7 PK	74.0	-13.3	2.07 V	267	51.3	9.4
6	5350.00	49.8 AV	54.0	-4.2	2.07 V	267	40.4	9.4
7	#10420.00	60.2 PK	68.2	-8.0	1.64 V	231	44.4	15.8

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	59.7 PK	74.0	-14.3	1.51 H	337	51.2	8.5
2	5150.00	48.8 AV	54.0	-5.2	1.51 H	337	40.3	8.5
3	*5290.00	97.8 PK			1.51 H	337	88.5	9.3
4	*5290.00	87.5 AV			1.51 H	337	78.2	9.3
5	5350.00	61.2 PK	74.0	-12.8	1.51 H	337	51.8	9.4
6	5350.00	50.3 AV	54.0	-3.7	1.51 H	337	40.9	9.4
7	#10580.00	60.4 PK	68.2	-7.8	1.87 H	140	44.6	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.07 V	263	51.8	8.5
2	5150.00	49.3 AV	54.0	-4.7	2.07 V	263	40.8	8.5
3	*5290.00	104.5 PK			2.07 V	263	95.2	9.3
4	*5290.00	94.3 AV			2.07 V	263	85.0	9.3
5	5350.00	63.7 PK	74.0	-10.3	2.07 V	263	54.3	9.4
6	5350.00	52.5 AV	54.0	-1.5	2.07 V	263	43.1	9.4
7	#10580.00	62.2 PK	68.2	-6.0	1.73 V	235	46.4	15.8

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 106：5530 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	60.5 PK	74.0	-13.5	1.31 H	250	51.2	9.3
2	5460.00	49.4 AV	54.0	-4.6	1.31 H	250	40.1	9.3
3	#5470.00	62.4 PK	68.2	-5.8	1.31 H	250	53.2	9.2
4	*5530.00	99.4 PK			1.31 H	250	90.0	9.4
5	*5530.00	87.4 AV			1.31 H	250	78.0	9.4
6	11060.00	56.8 PK	74.0	-17.2	1.59 H	240	40.1	16.7
7	11060.00	46.3 AV	54.0	-7.7	1.59 H	240	29.6	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	64.1 PK	74.0	-9.9	1.85 V	299	54.8	9.3
2	5460.00	52.2 AV	54.0	-1.8	1.85 V	299	42.9	9.3
3	#5470.00	66.9 PK	68.2	-1.3	1.85 V	299	57.7	9.2
4	*5530.00	105.3 PK			1.85 V	299	95.9	9.4
5	*5530.00	94.2 AV			1.85 V	299	84.8	9.4
6	11060.00	60.1 PK	74.0	-13.9	2.38 V	191	43.4	16.7
7	11060.00	49.3 AV	54.0	-4.7	2.38 V	191	32.6	16.7

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 122：5610 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% RH
Tested By	Ian Chang		

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	98.2 PK			1.29 H	246	89.3	8.9
2	*5610.00	90.1 AV			1.29 H	246	81.2	8.9
3	#5725.00	58.8 PK	68.2	-9.4	1.29 H	246	50.2	8.6
4	11220.00	57.1 PK	74.0	-16.9	1.60 H	238	39.7	17.4
5	11220.00	46.5 AV	54.0	-7.5	1.60 H	238	29.1	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	106.4 PK			1.95 V	301	97.5	8.9
2	*5610.00	96.0 AV			1.95 V	301	87.1	8.9
3	#5725.00	60.8 PK	68.2	-7.4	1.95 V	301	52.2	8.6
4	11220.00	59.6 PK	74.0	-14.4	2.55 V	187	42.2	17.4
5	11220.00	48.2 AV	54.0	-5.8	2.55 V	187	30.8	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 138：5690 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 75% 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	#5470.00	60.5 PK	68.2	-7.7	3.61 H	295	51.3	9.2
2	*5690.00	102.1 PK			3.61 H	295	93.5	8.6
3	*5690.00	91.3 AV			3.61 H	295	82.7	8.6
4	11380.00	55.3 PK	74.0	-18.7	1.53 H	122	38.4	16.9
5	11380.00	44.3 AV	54.0	-9.7	1.53 H	122	27.4	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	#5470.00	61.0 PK	68.2	-7.2	2.06 V	306	51.8	9.2
2	*5690.00	107.7 PK			2.06 V	306	99.1	8.6
3	*5690.00	96.5 AV			2.06 V	306	87.9	8.6
4	11380.00	58.6 PK	74.0	-15.4	3.85 V	203	41.7	16.9
5	11380.00	47.7 AV	54.0	-6.3	3.85 V	203	30.8	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 (HE80)	Channel	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ian Chang		

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	#5602.62	58.7 PK	68.2	-9.5	1.45 H	229	49.8	8.9
2	*5775.00	101.1 PK			1.45 H	229	92.6	8.5
3	*5775.00	90.9 AV			1.45 H	229	82.4	8.5
4	#5994.11	59.7 PK	68.2	-8.5	1.45 H	229	51.0	8.7
5	11550.00	57.8 PK	74.0	-16.2	1.58 H	234	40.4	17.4
6	11550.00	47.7 AV	54.0	-6.3	1.58 H	234	30.3	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	#5620.66	58.8 PK	68.2	-9.4	2.91 V	294	50.0	8.8
2	*5775.00	107.3 PK			2.91 V	294	98.8	8.5
3	*5775.00	96.6 AV			2.91 V	294	88.1	8.5
4	#5977.00	60.3 PK	68.2	-7.9	2.91 V	294	51.6	8.7
5	11550.00	62.0 PK	74.0	-12.0	3.88 V	195	44.6	17.4
6	11550.00	50.4 AV	54.0	-3.6	3.88 V	195	33.0	17.4

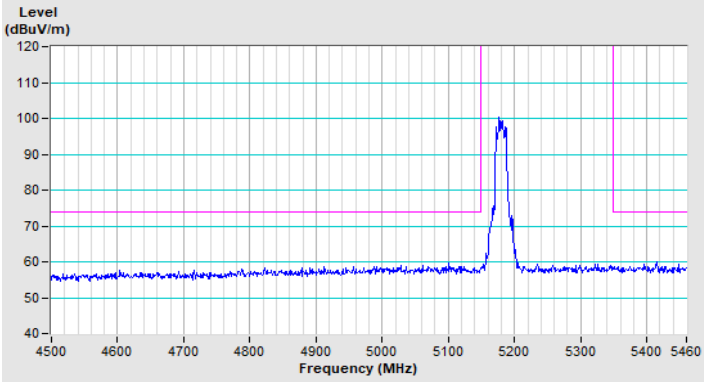
Remarks:

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.

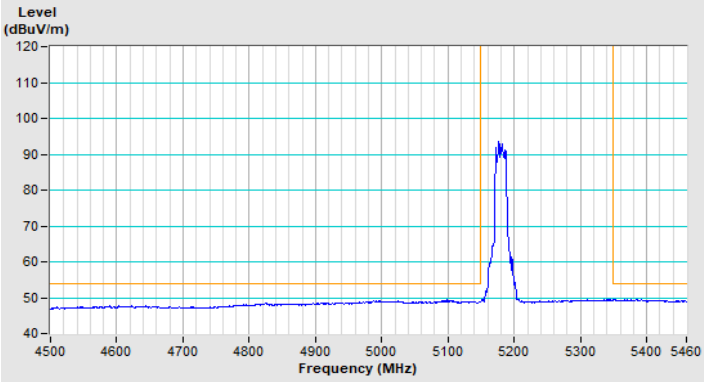
Plot of Band Edge

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

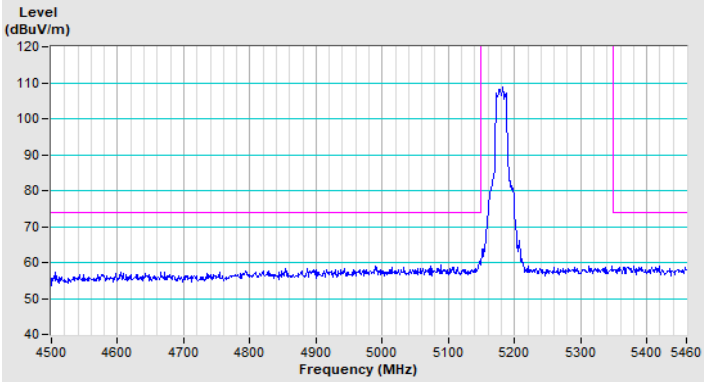
802.11a Channel 36



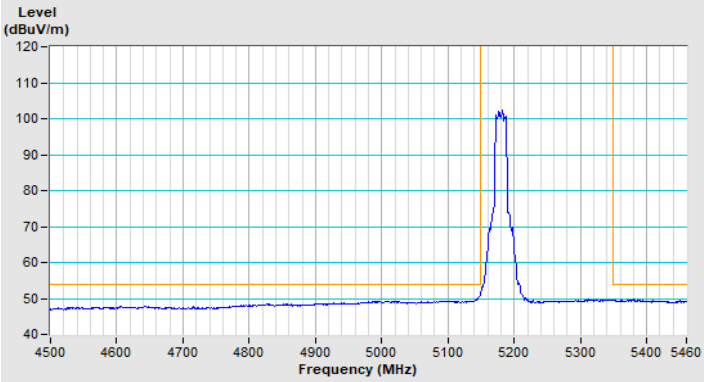
Horizontal (Peak)



Horizontal (Average)

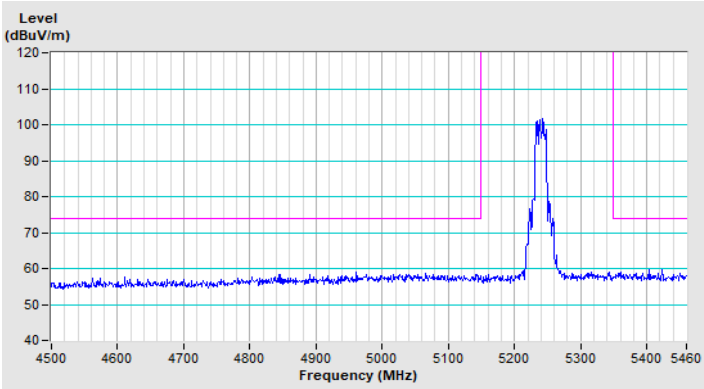


Vertical (Peak)

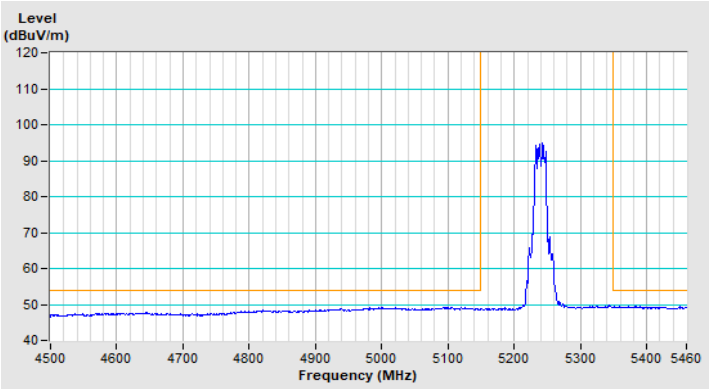


Vertical (Average)

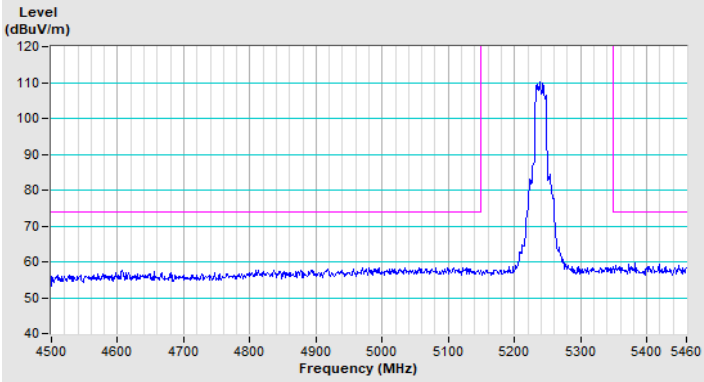
802.11a Channel 48



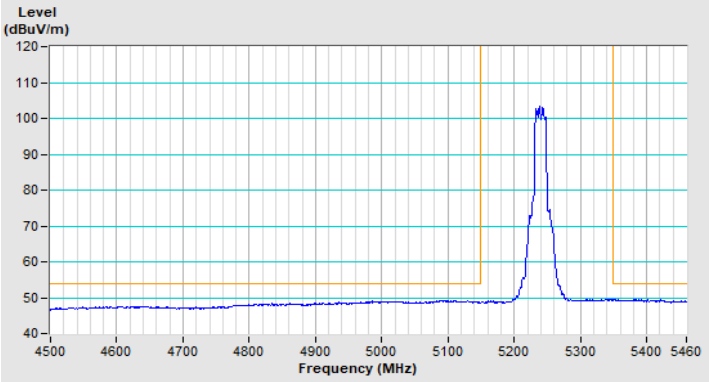
Horizontal (Peak)



Horizontal (Average)

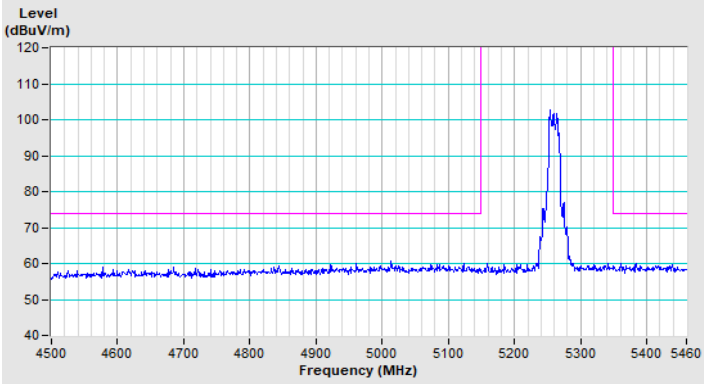


Vertical (Peak)

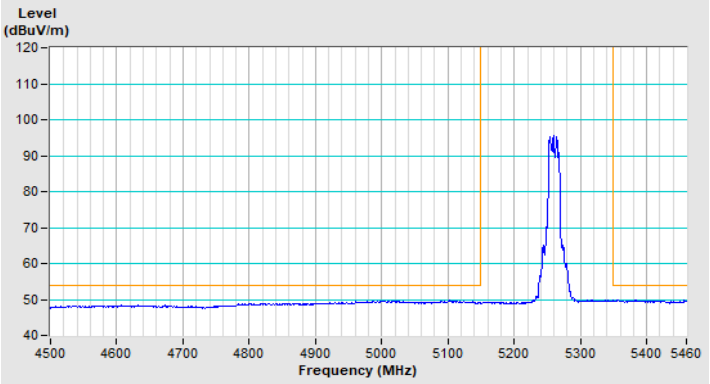


Vertical (Average)

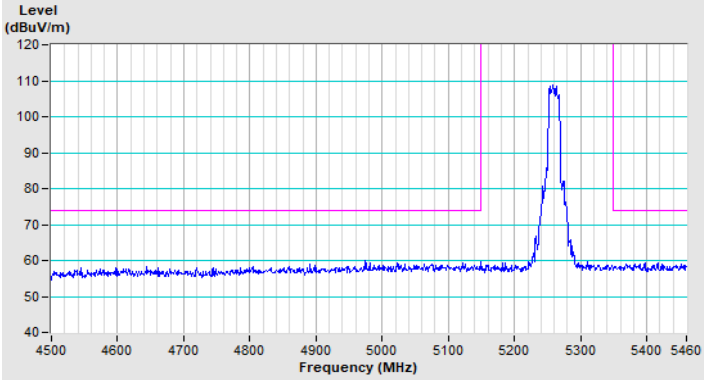
802.11a Channel 52



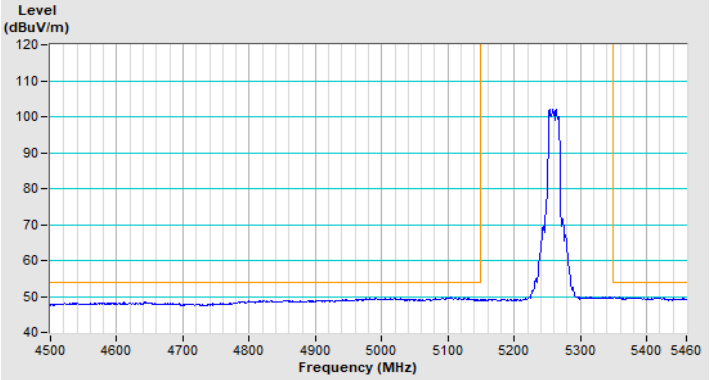
Horizontal (Peak)



Horizontal (Average)

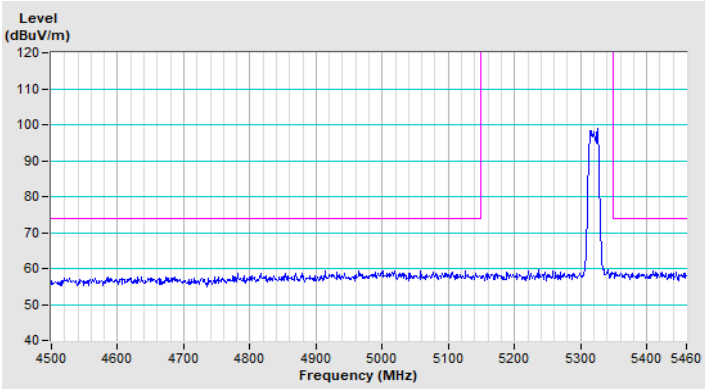


Vertical (Peak)

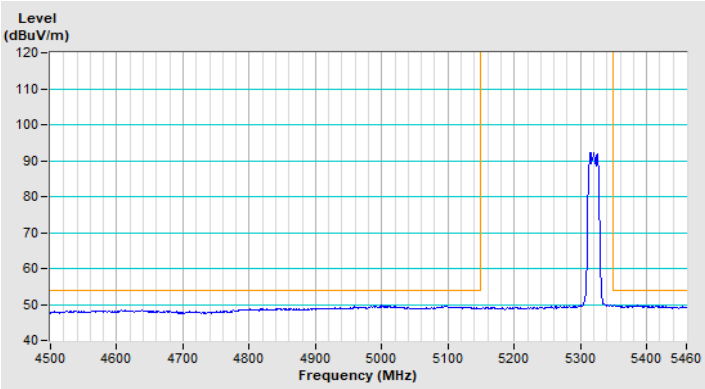


Vertical (Average)

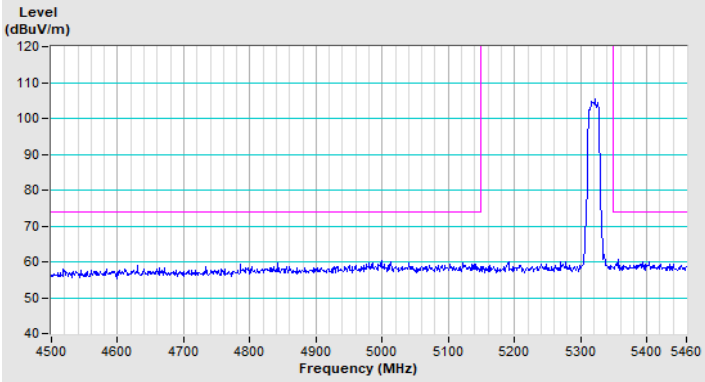
802.11a Channel 64



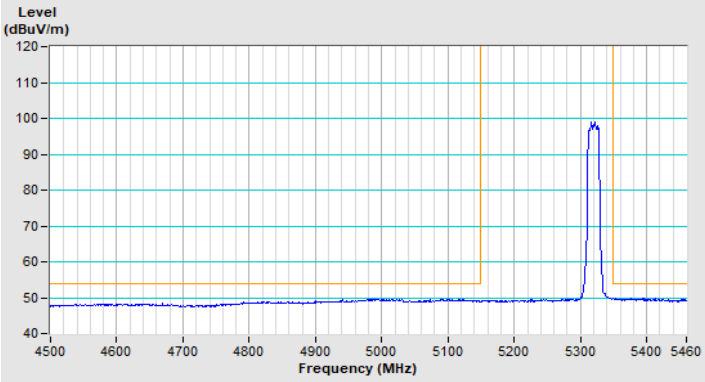
Horizontal (Peak)



Horizontal (Average)



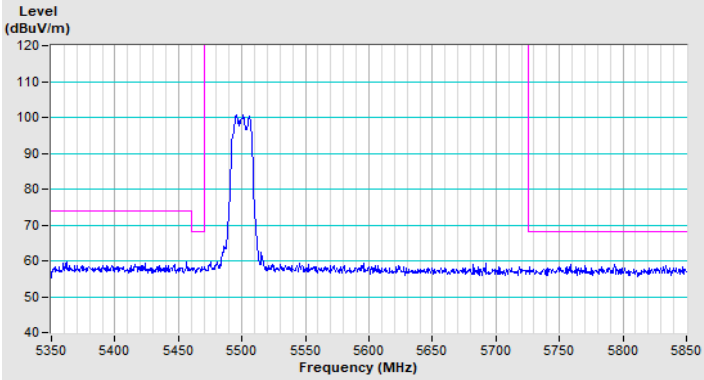
Vertical (Peak)



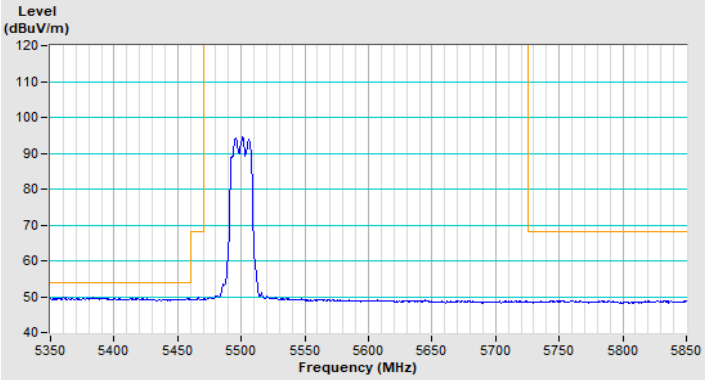
Vertical (Average)

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

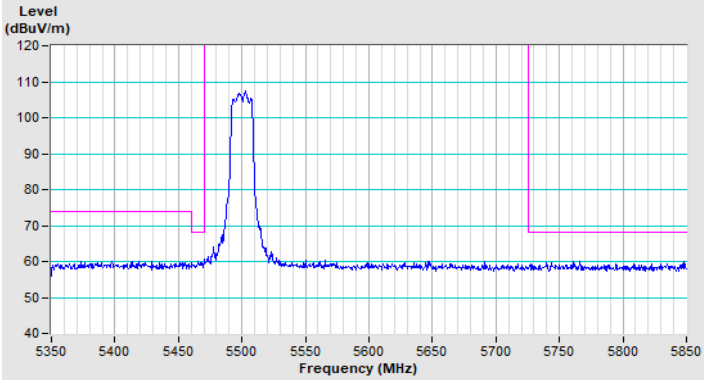
802.11a Channel 100



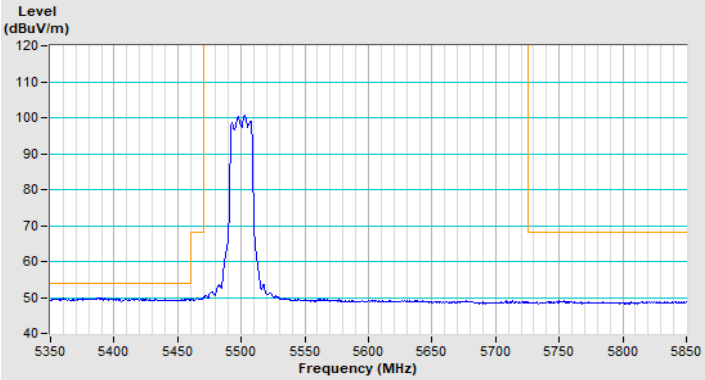
Horizontal (Peak)



Horizontal (Average)

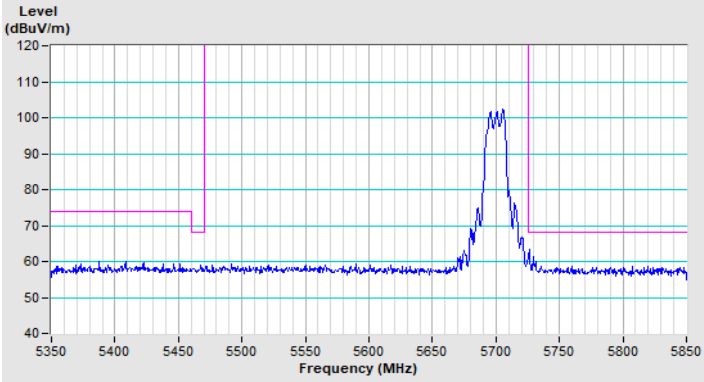


Vertical (Peak)

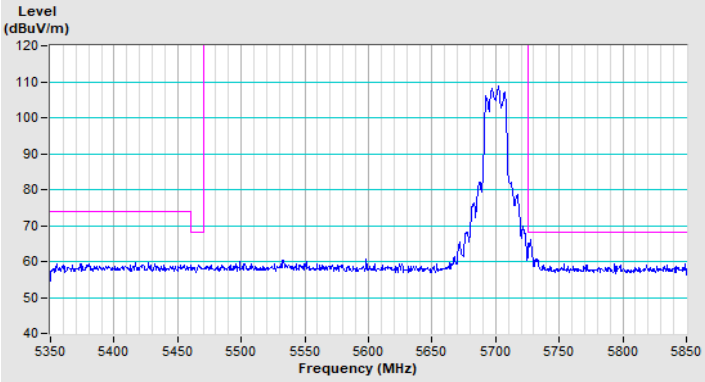


Vertical (Average)

802.11a Channel 140

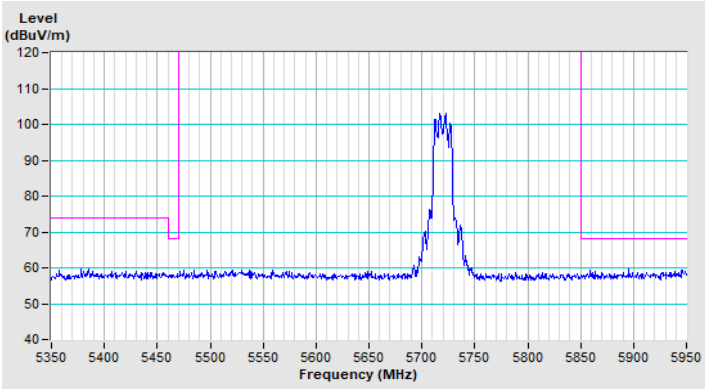
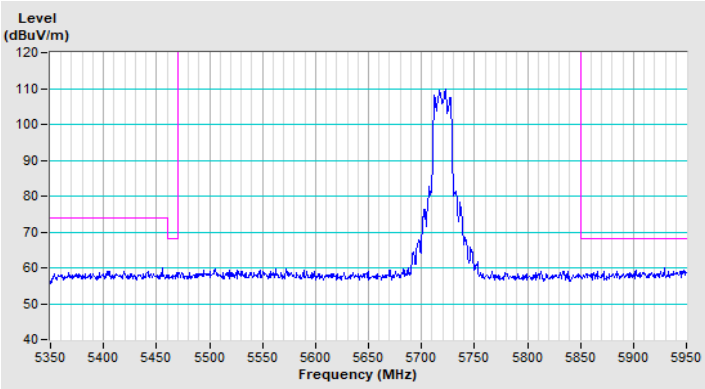


Horizontal (Peak)



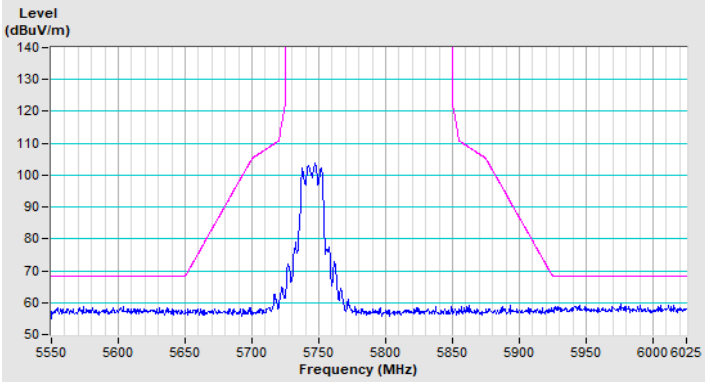
Vertical (Peak)

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

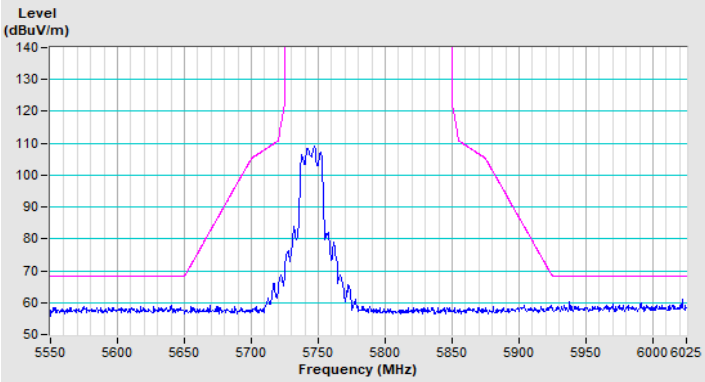
802.11a Channel 144	
 Horizontal (Peak)	 Vertical (Peak)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 149

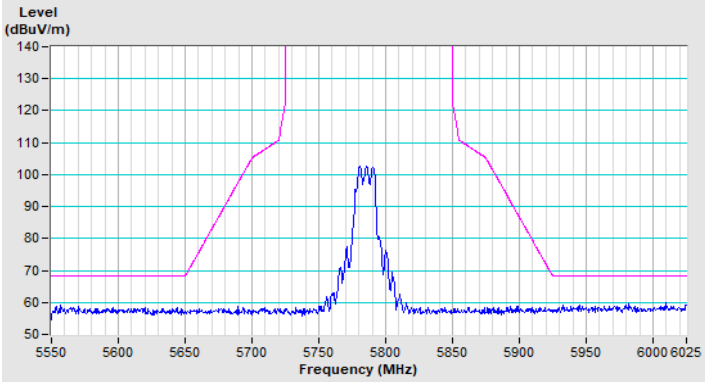


Horizontal (Peak)

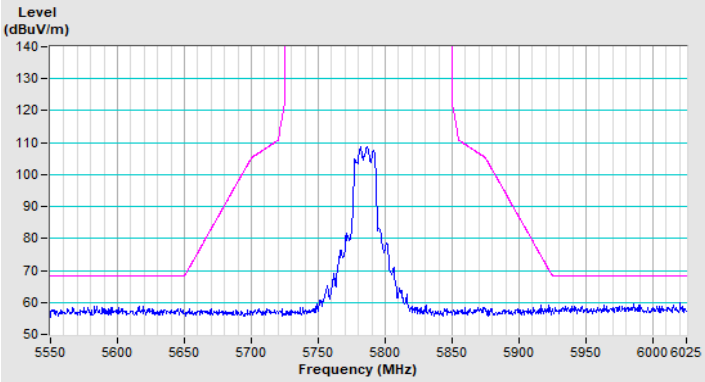


Vertical (Peak)

802.11a Channel 157

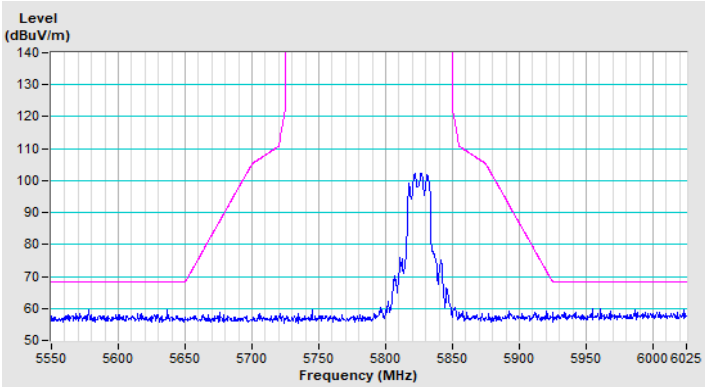


Horizontal (Peak)

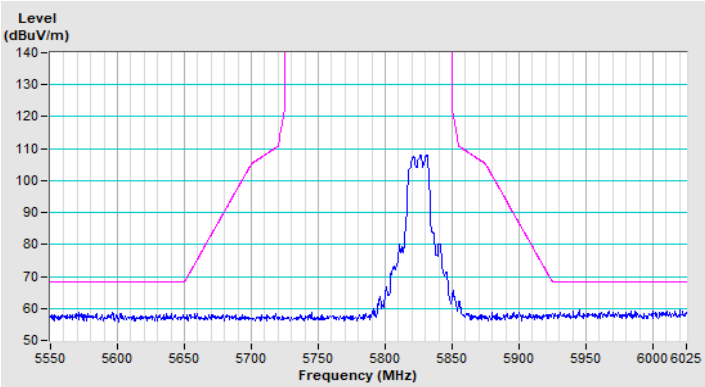


Vertical (Peak)

802.11a Channel 165



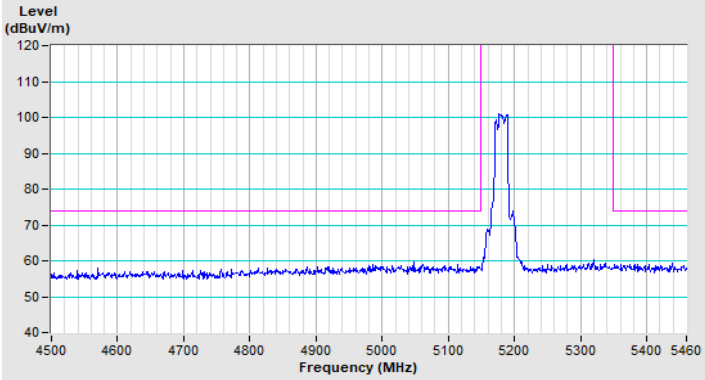
Horizontal (Peak)



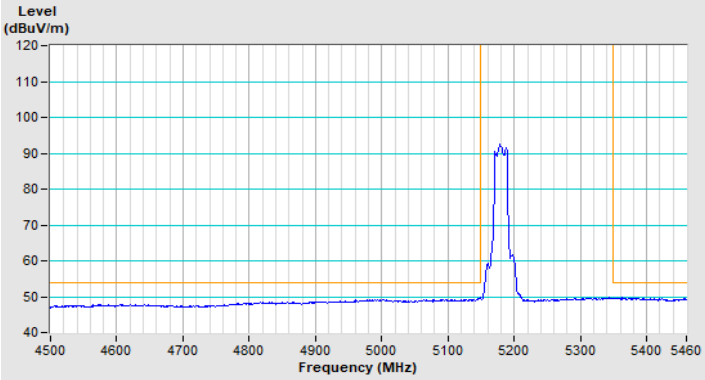
Vertical (Peak)

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

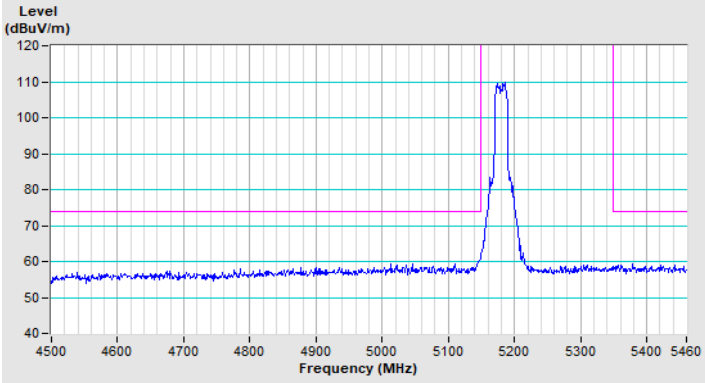
802.11ax (HE20) Channel 36



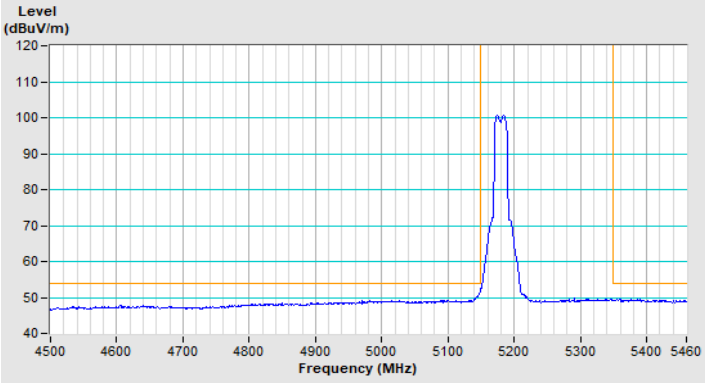
Horizontal (Peak)



Horizontal (Average)

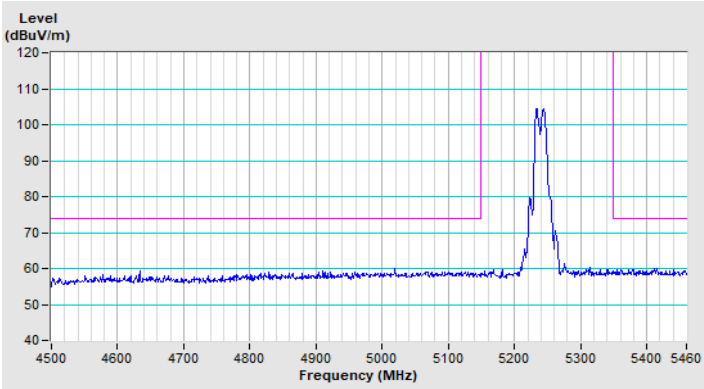


Vertical (Peak)

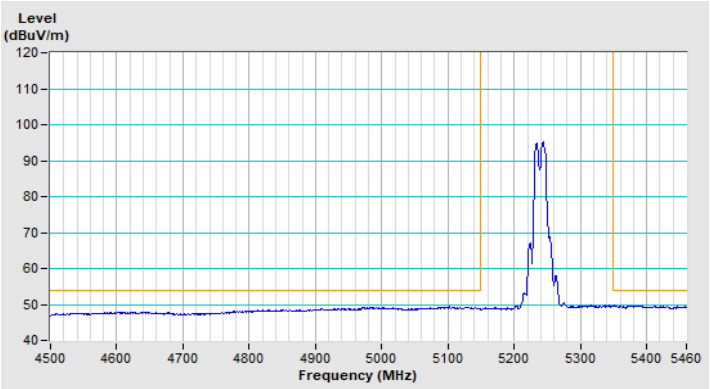


Vertical (Average)

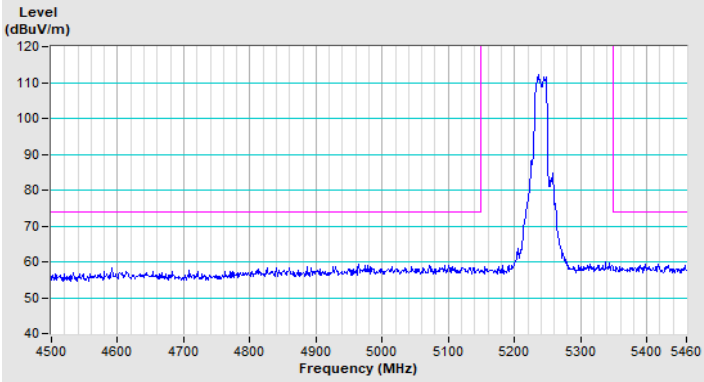
802.11ax (HE20) Channel 48



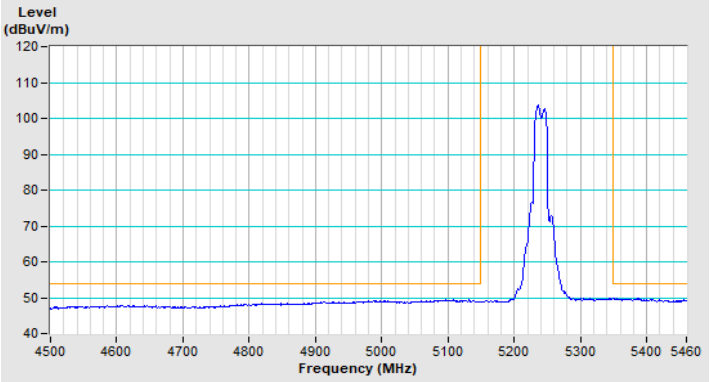
Horizontal (Peak)



Horizontal (Average)

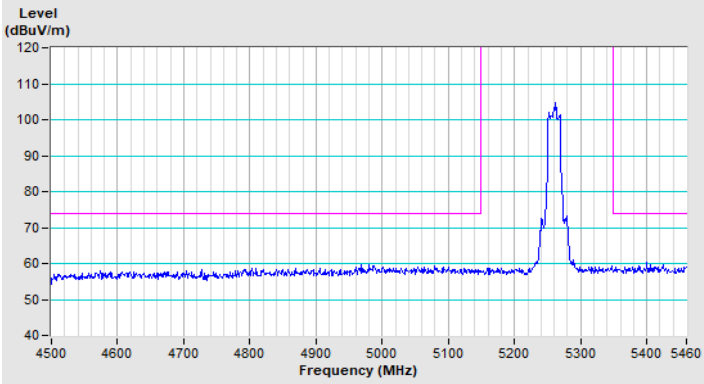


Vertical (Peak)

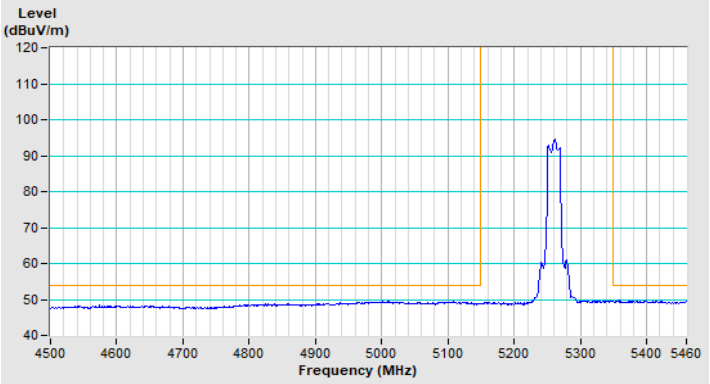


Vertical (Average)

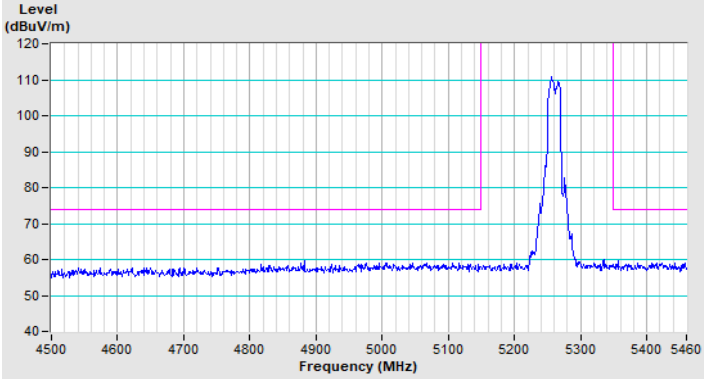
802.11ax (HE20) Channel 52



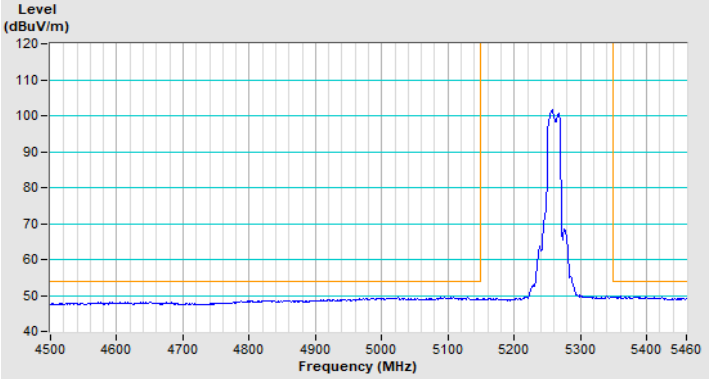
Horizontal (Peak)



Horizontal (Average)

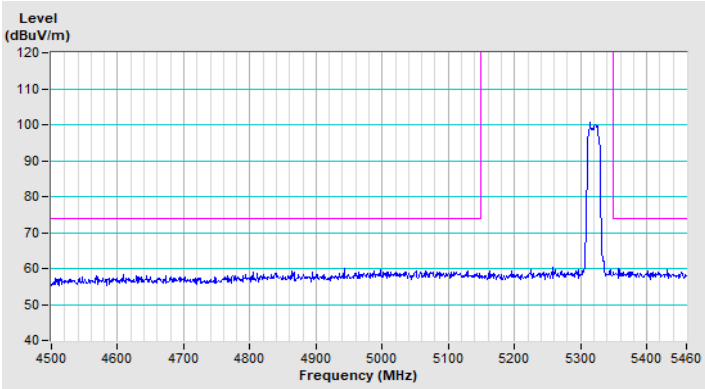


Vertical (Peak)

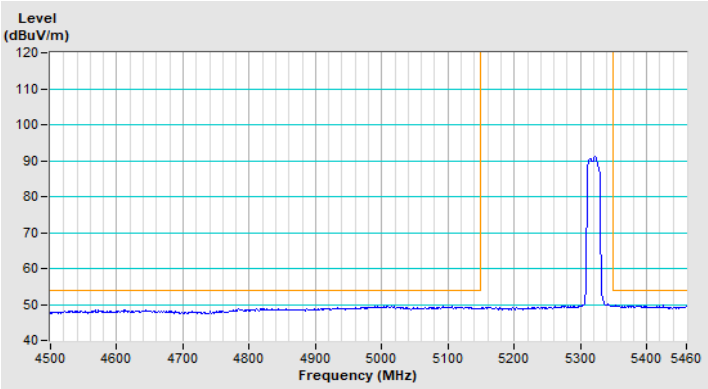


Vertical (Average)

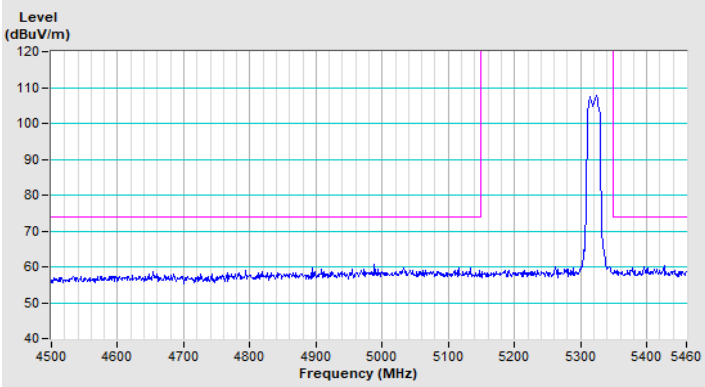
802.11ax (HE20) Channel 64



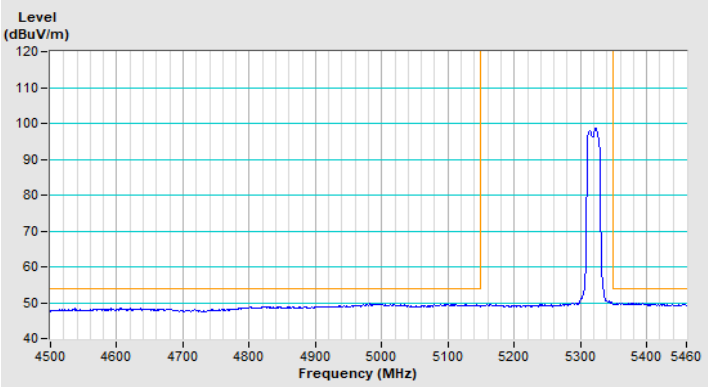
Horizontal (Peak)



Horizontal (Average)



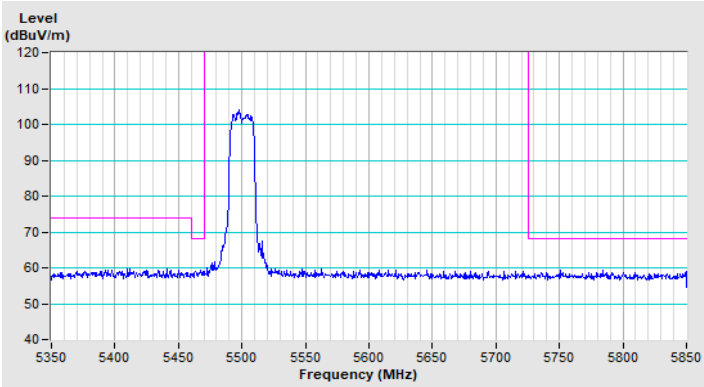
Vertical (Peak)



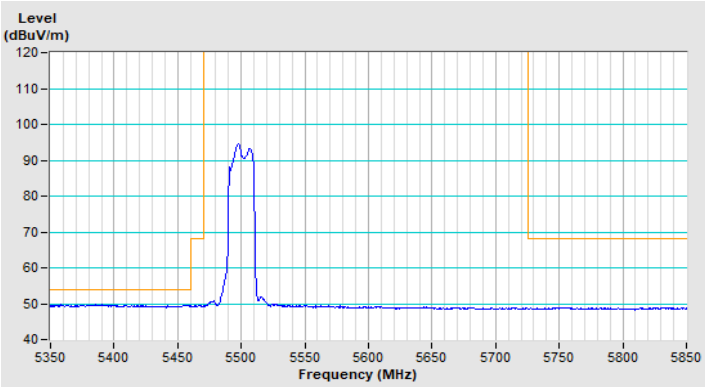
Vertical (Average)

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

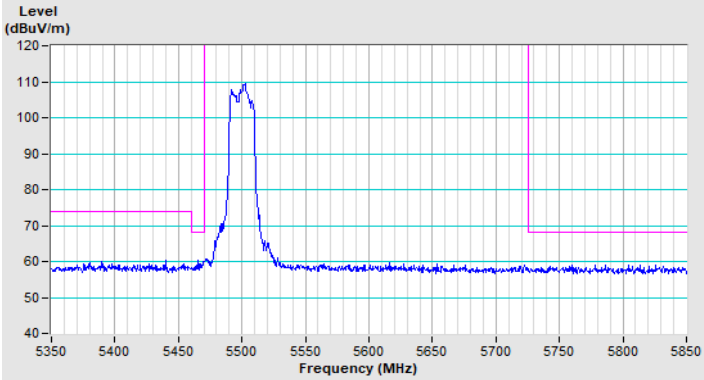
802.11ax (HE20) Channel 100



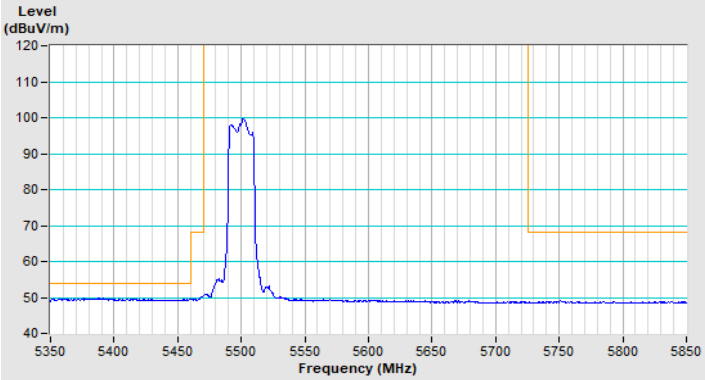
Horizontal (Peak)



Horizontal (Average)

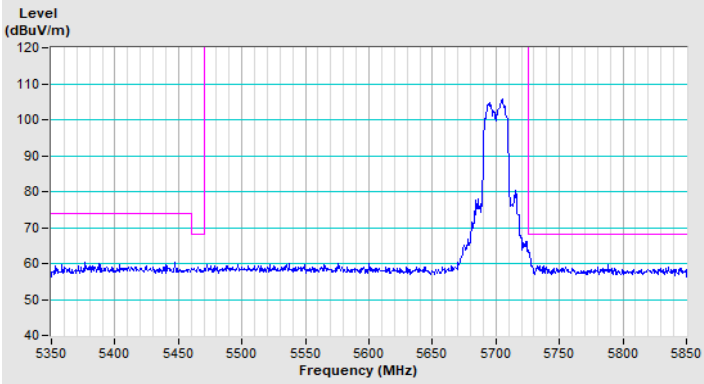


Vertical (Peak)

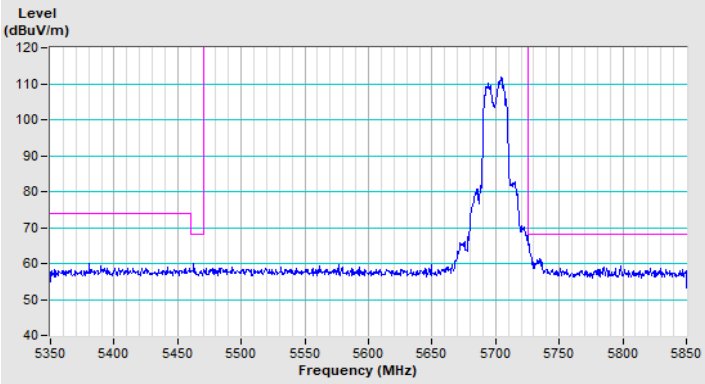


Vertical (Average)

802.11ax (HE20) Channel 140



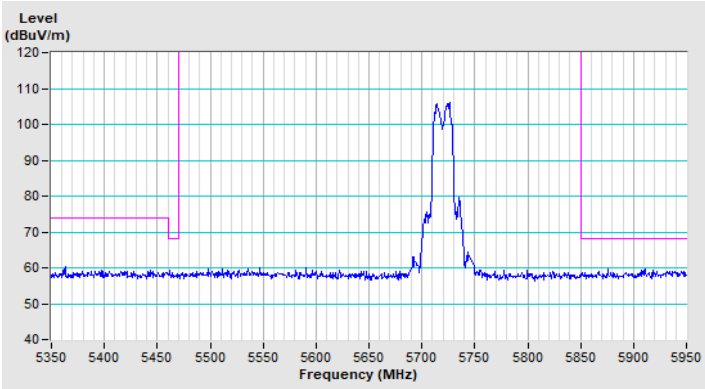
Horizontal (Peak)



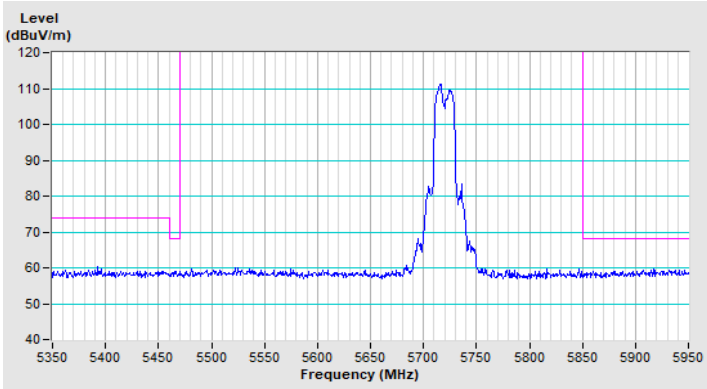
Vertical (Peak)

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

802.11ax (HE20) Channel 144



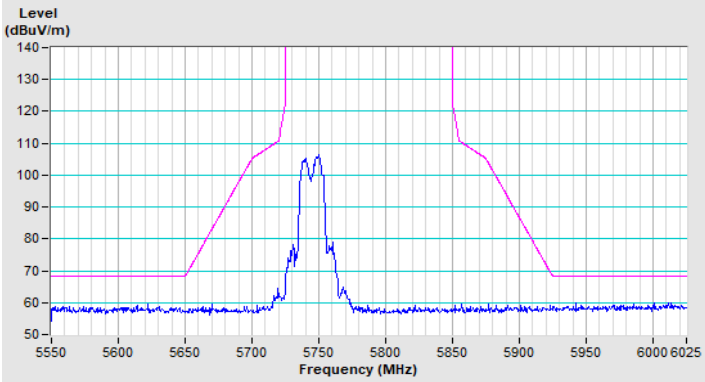
Horizontal (Peak)



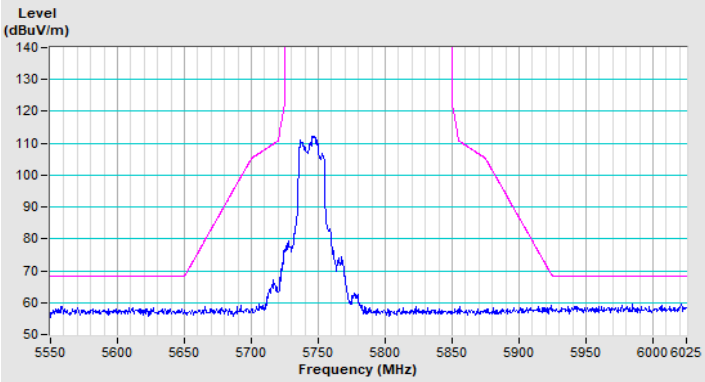
Vertical (Peak)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 149

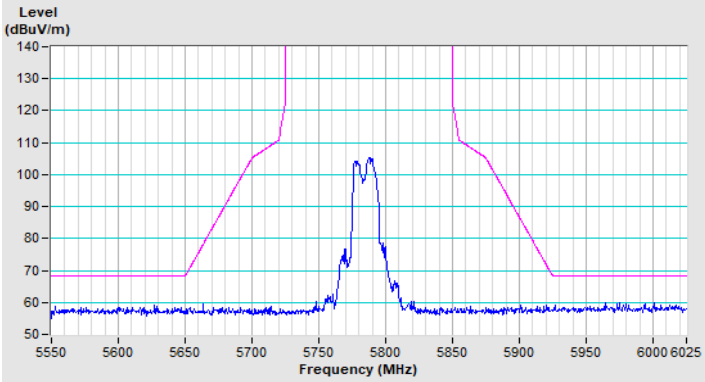


Horizontal (Peak)

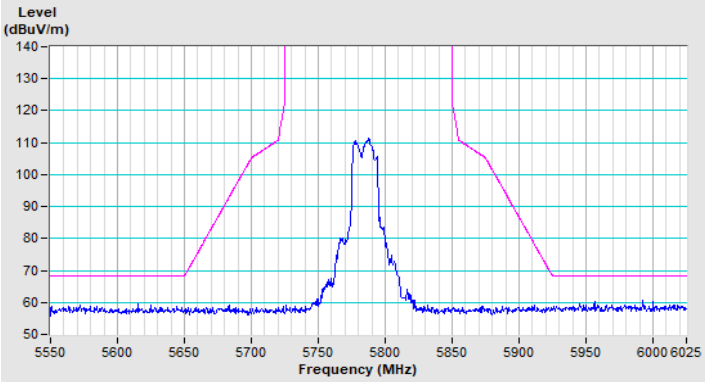


Vertical (Peak)

802.11ax (HE20) Channel 157

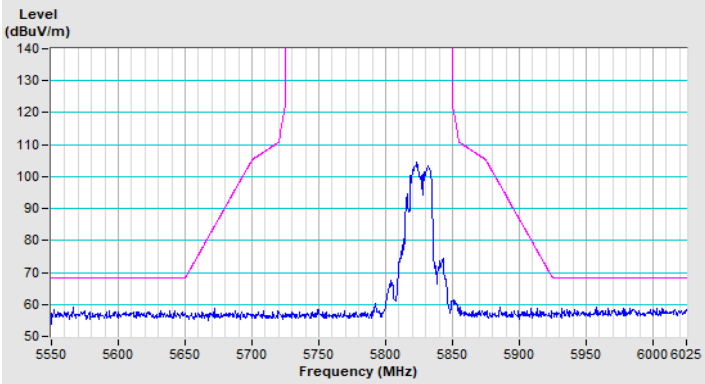


Horizontal (Peak)

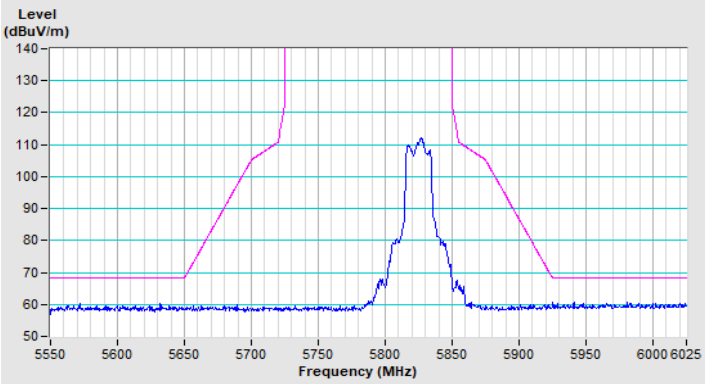


Vertical (Peak)

802.11ax (HE20) Channel 165



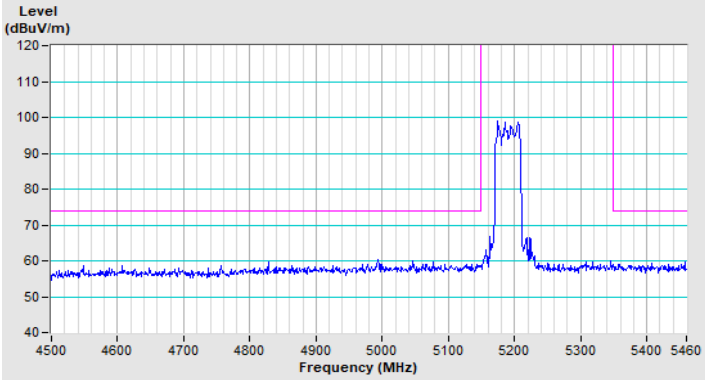
Horizontal (Peak)



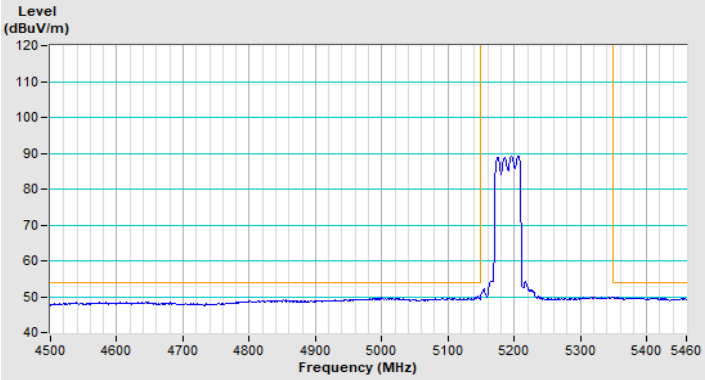
Vertical (Peak)

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

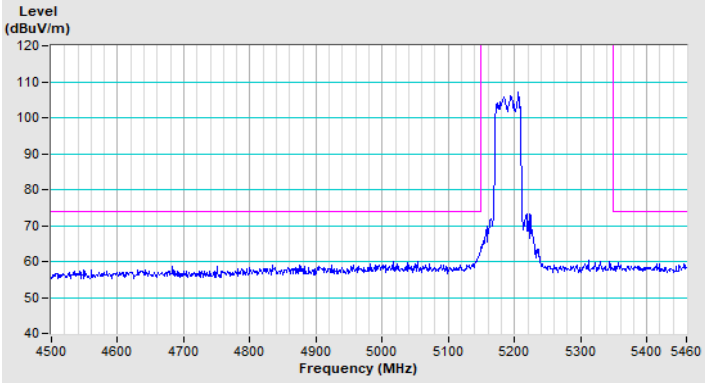
802.11ax (HE40) Channel 38



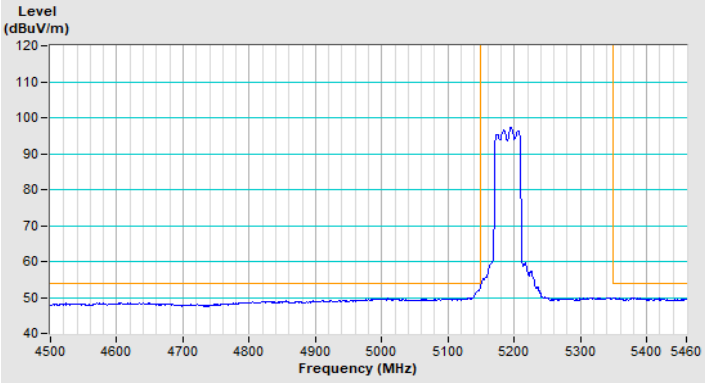
Horizontal (Peak)



Horizontal (Average)

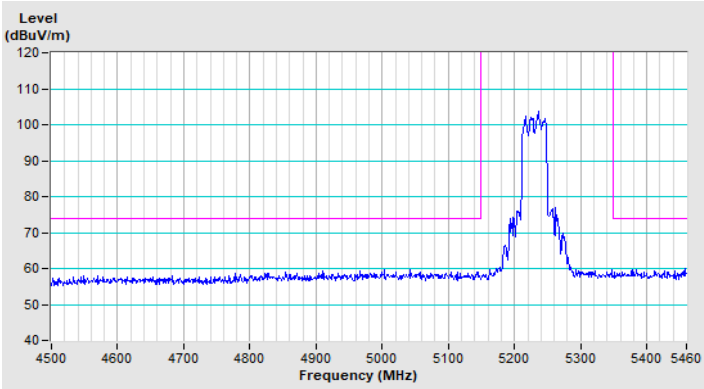


Vertical (Peak)

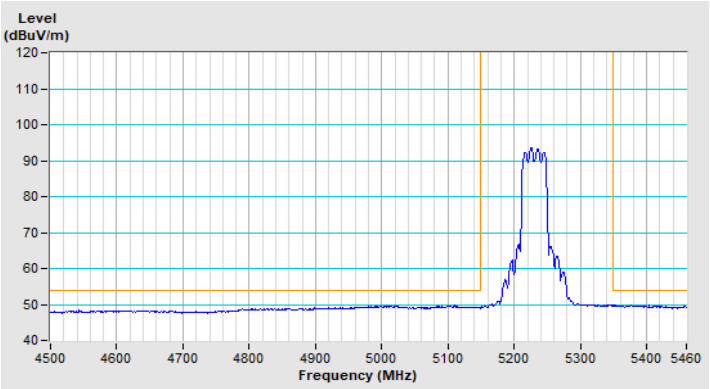


Vertical (Average)

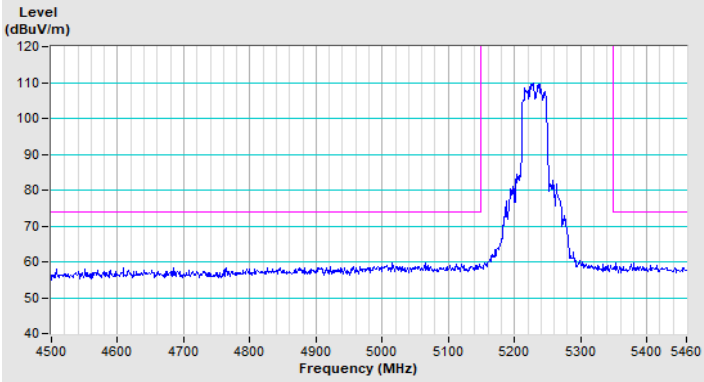
802.11ax (HE40) Channel 46



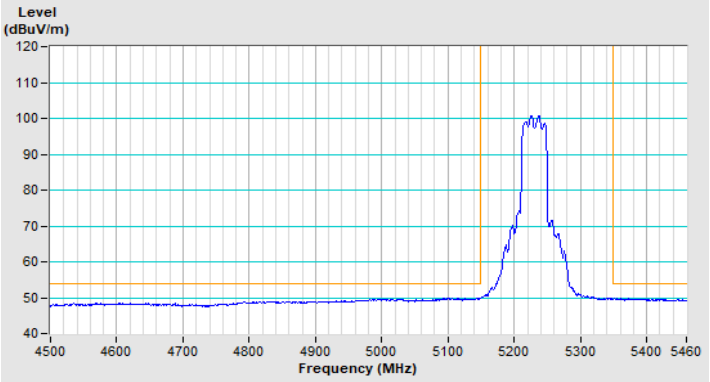
Horizontal (Peak)



Horizontal (Average)

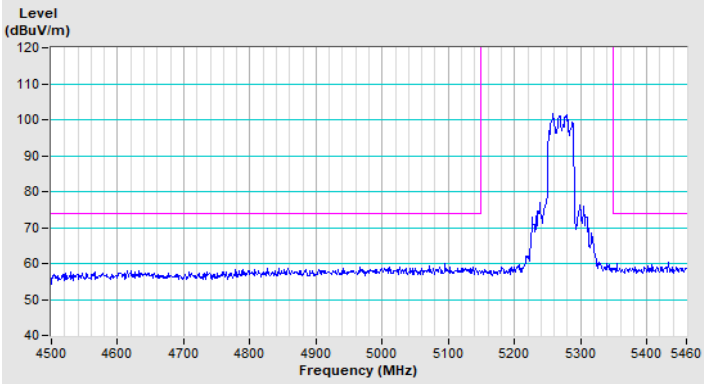


Vertical (Peak)

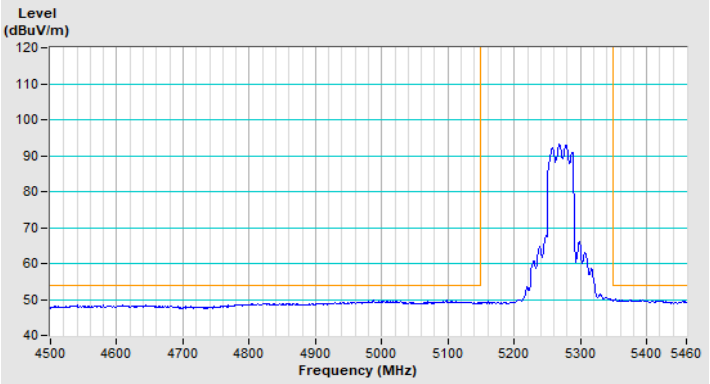


Vertical (Average)

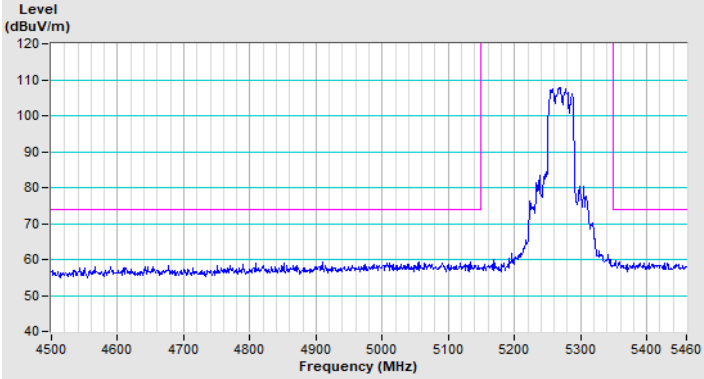
802.11ax (HE40) Channel 54



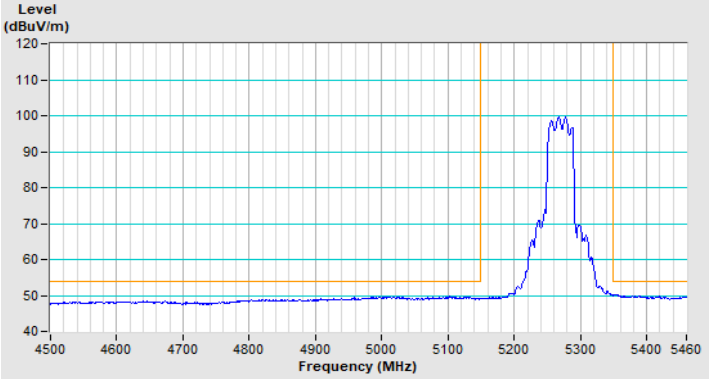
Horizontal (Peak)



Horizontal (Average)

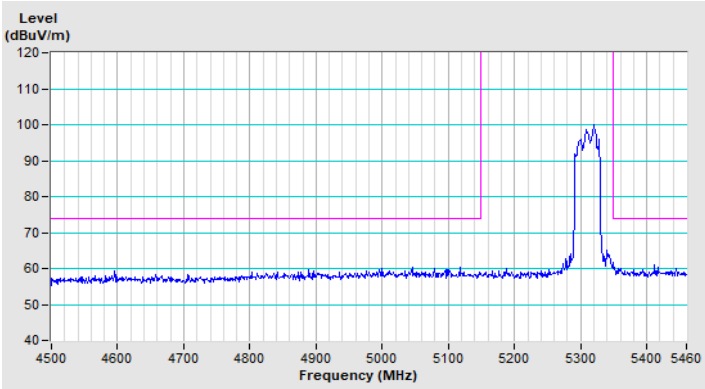


Vertical (Peak)

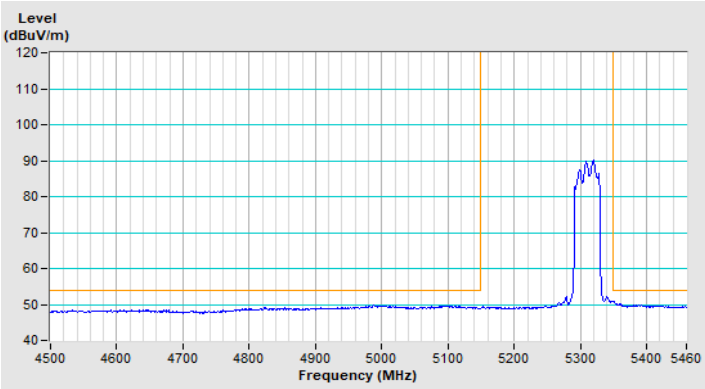


Vertical (Average)

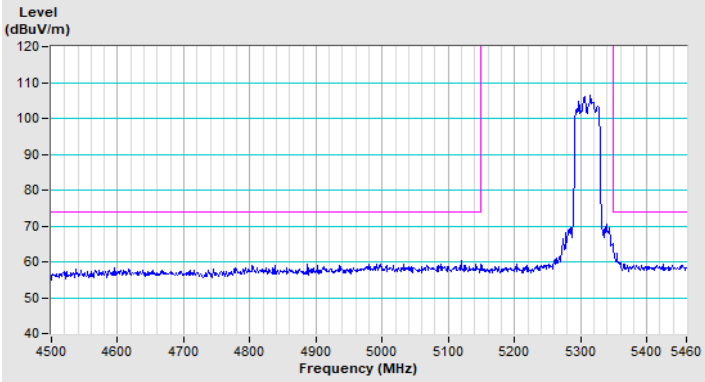
802.11ax (HE40) Channel 62



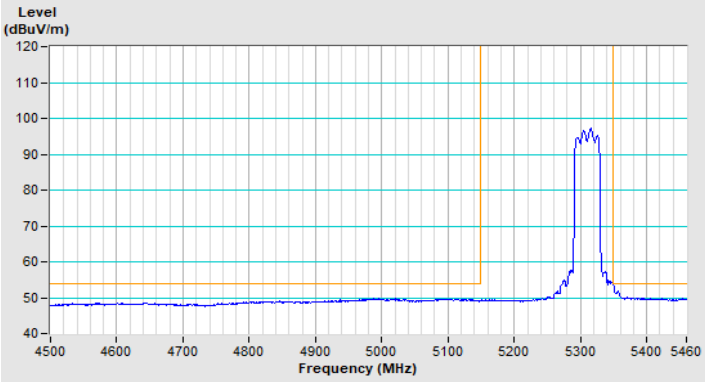
Horizontal (Peak)



Horizontal (Average)



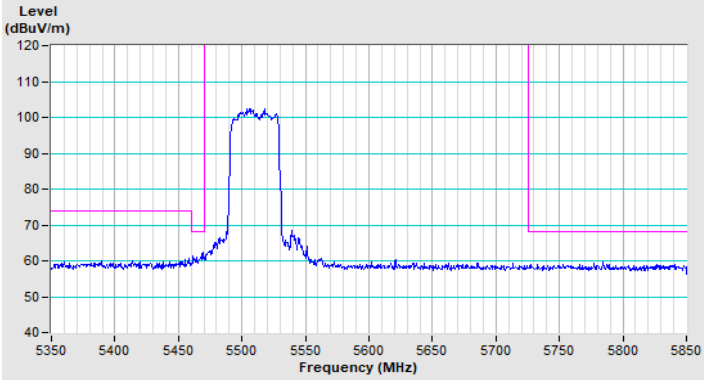
Vertical (Peak)



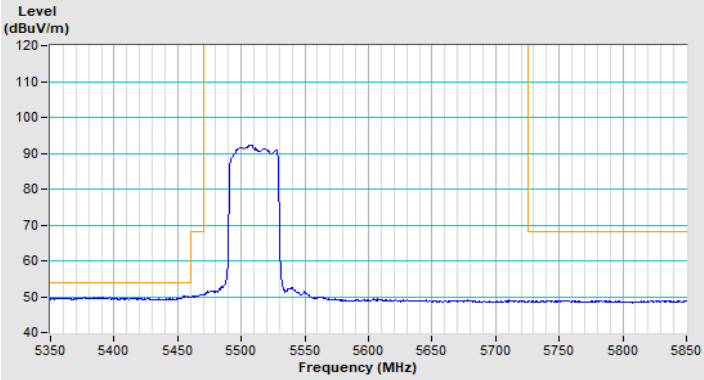
Vertical (Average)

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

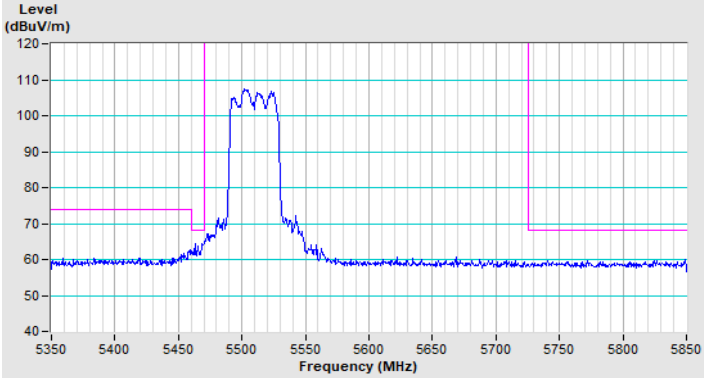
802.11ax (HE40) Channel 102



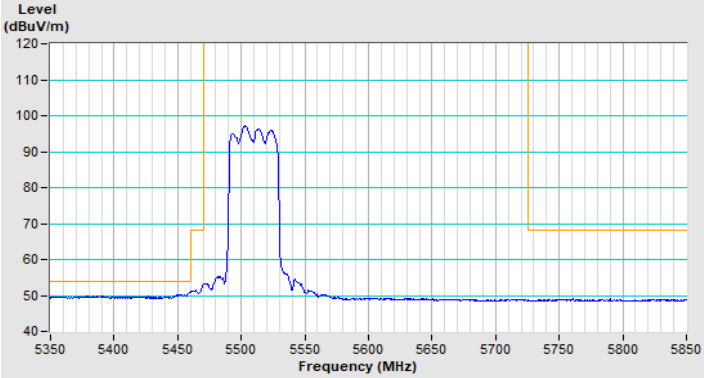
Horizontal (Peak)



Horizontal (Average)

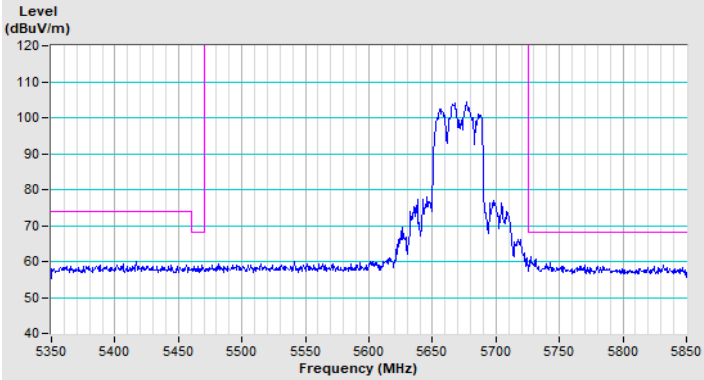


Vertical (Peak)

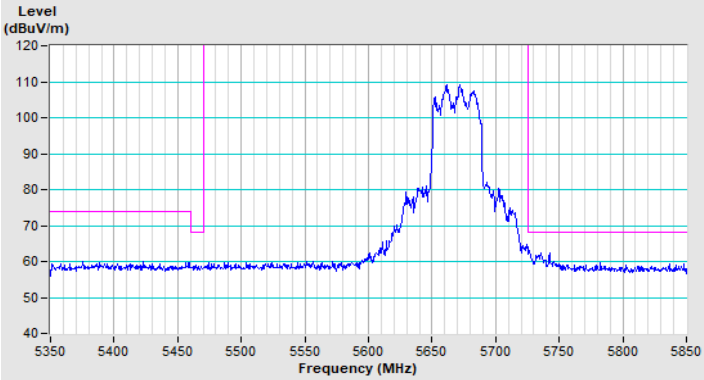


Vertical (Average)

802.11ax (HE40) Channel 134



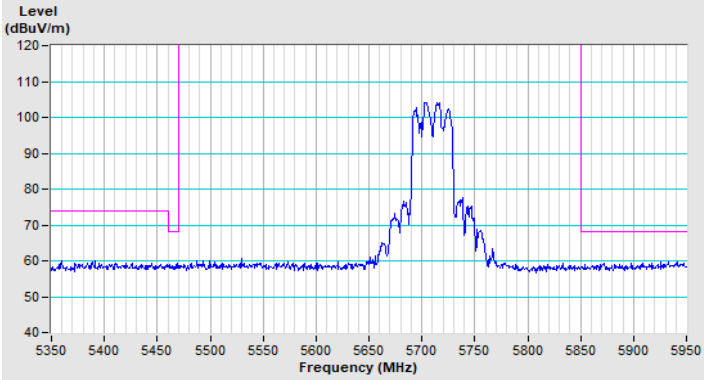
Horizontal (Peak)



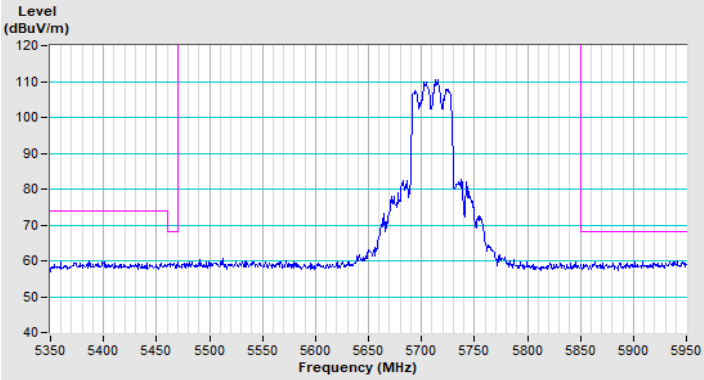
Vertical (Peak)

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

802.11ax (HE40) Channel 142



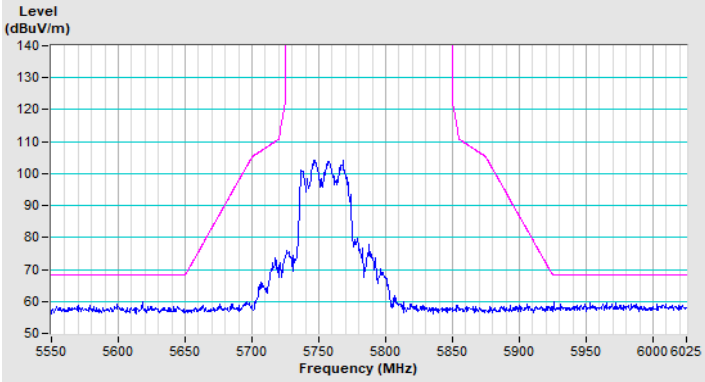
Horizontal (Peak)



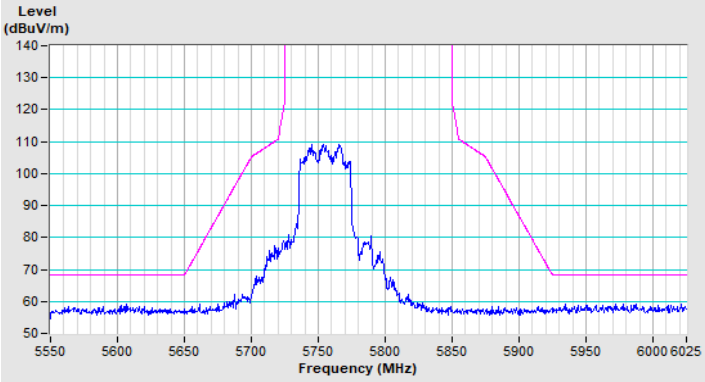
Vertical (Peak)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE40) Channel 151

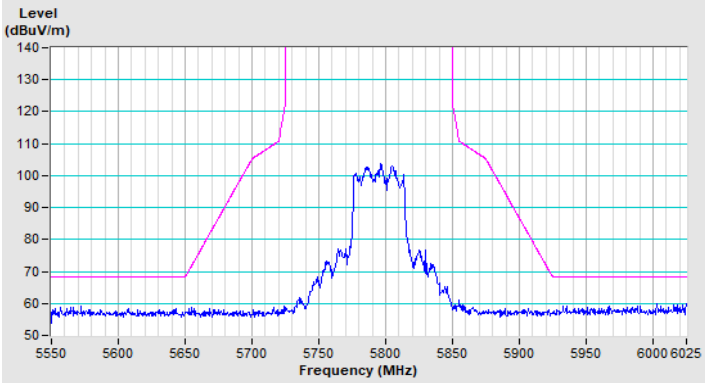


Horizontal (Peak)

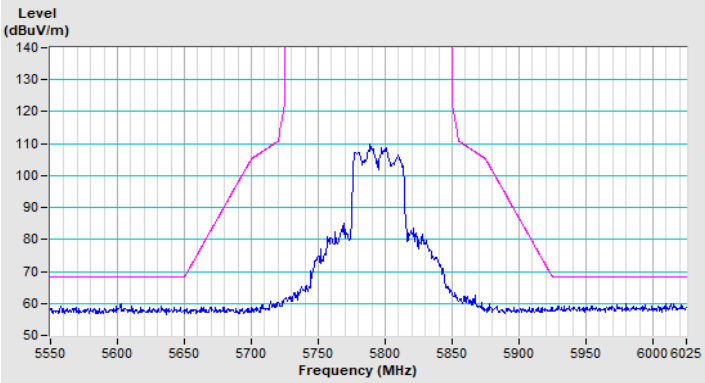


Vertical (Peak)

802.11ax (HE40) Channel 159



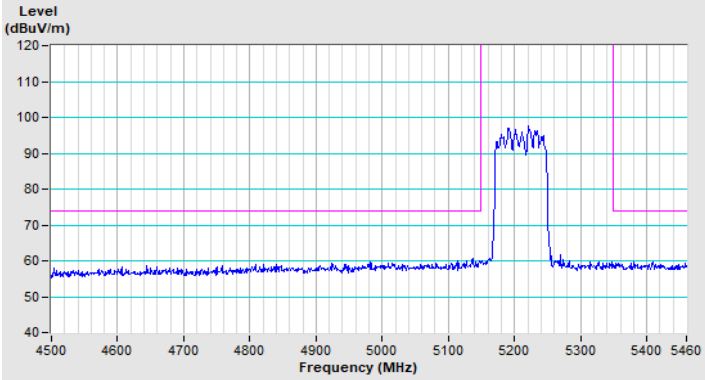
Horizontal (Peak)



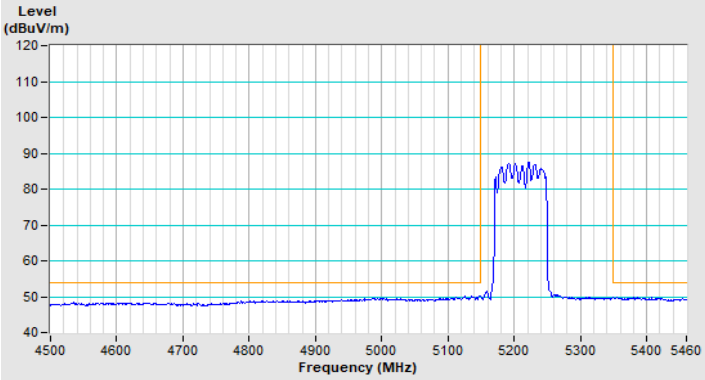
Vertical (Peak)

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

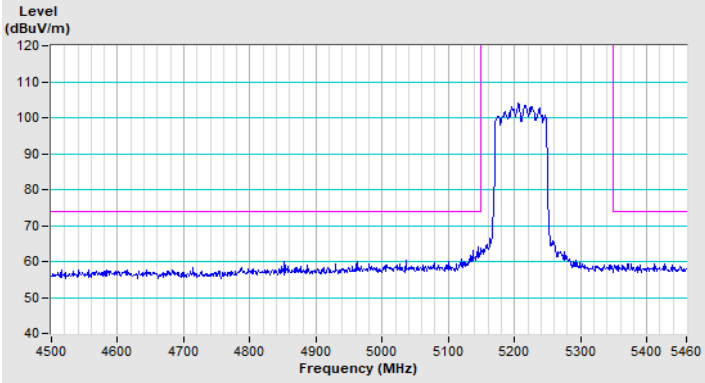
802.11ax (HE80) Channel 42



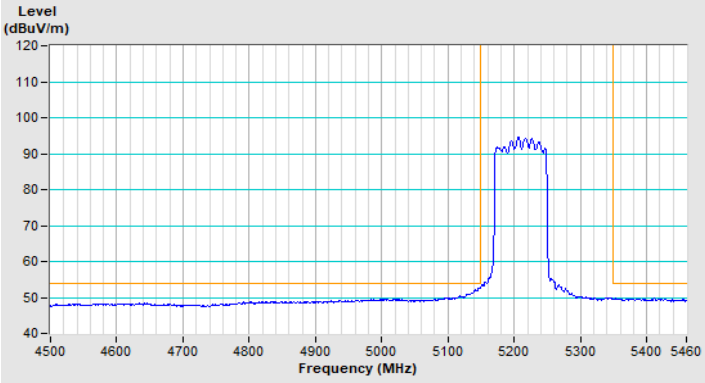
Horizontal (Peak)



Horizontal (Average)

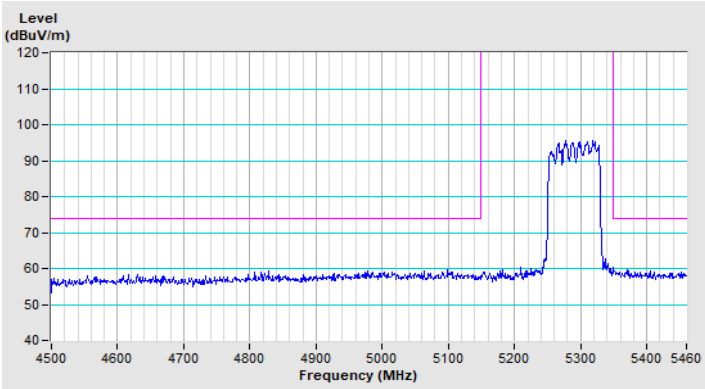


Vertical (Peak)

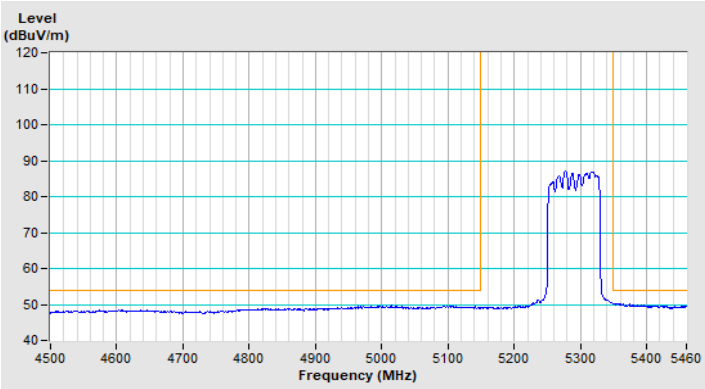


Vertical (Average)

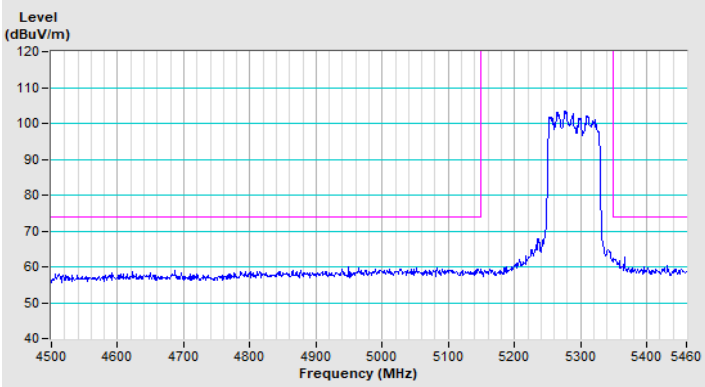
802.11ax (HE80) Channel 58



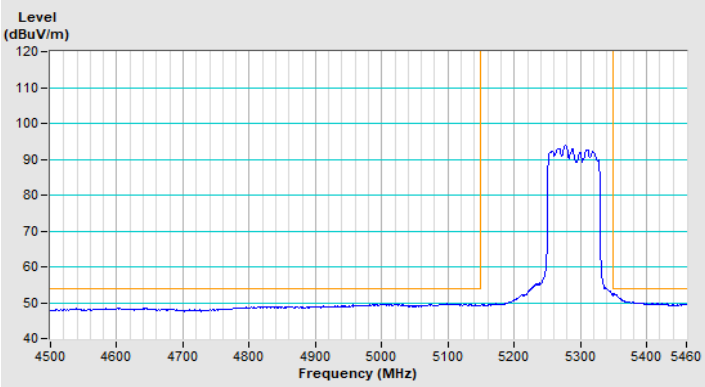
Horizontal (Peak)



Horizontal (Average)



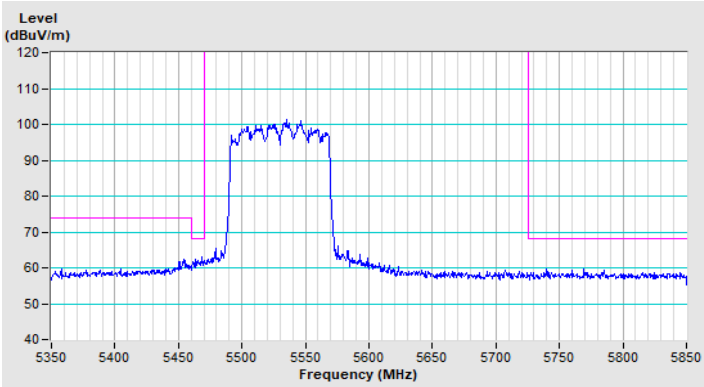
Vertical (Peak)



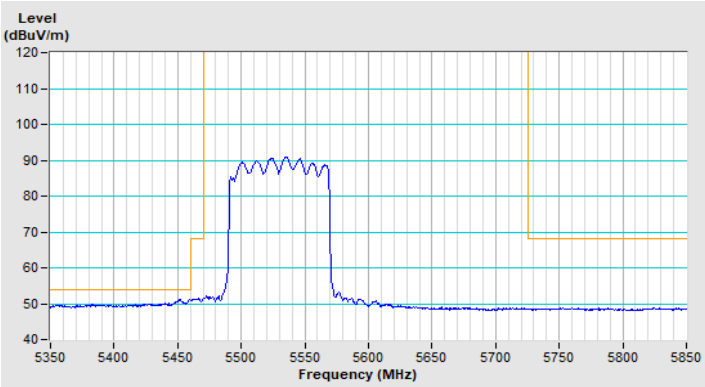
Vertical (Average)

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

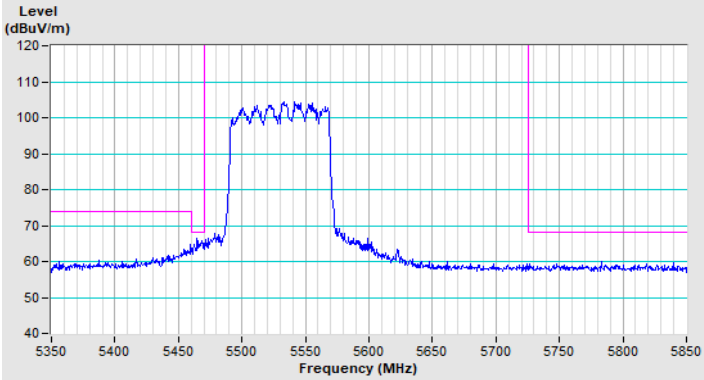
802.11ax (HE80) Channel 106



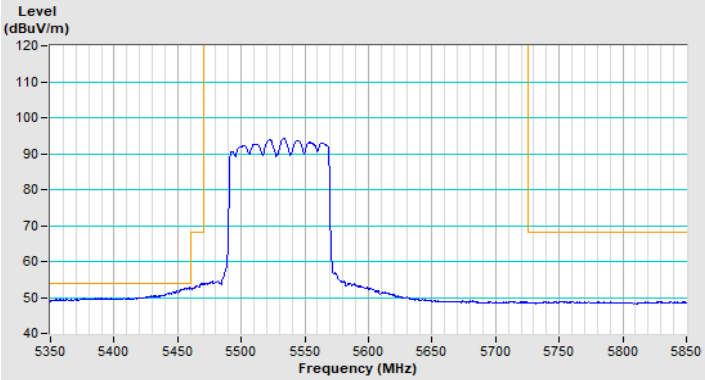
Horizontal (Peak)



Horizontal (Average)

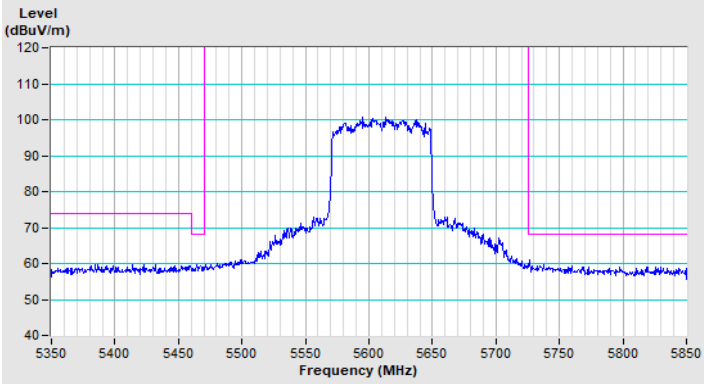


Vertical (Peak)

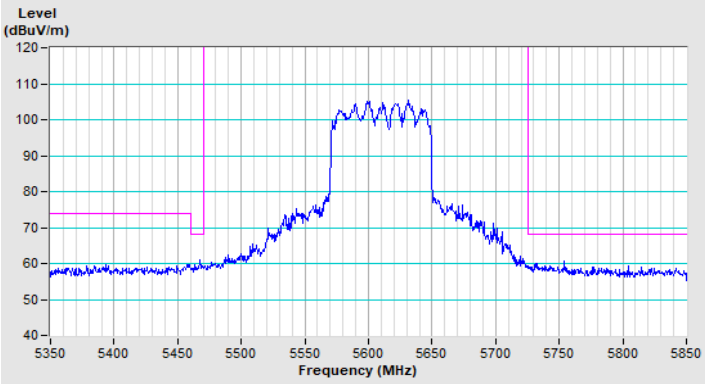


Vertical (Average)

802.11ax (HE80) Channel 122



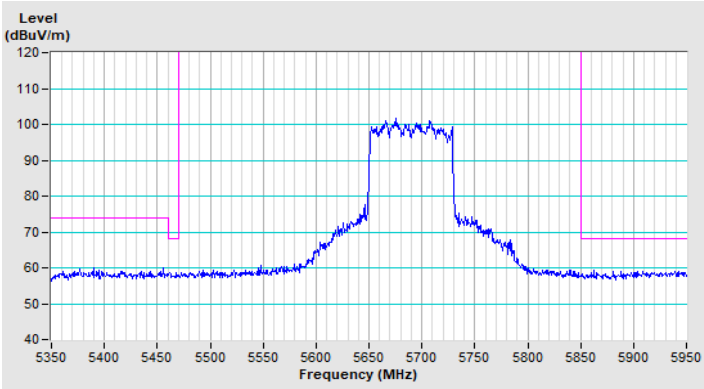
Horizontal (Peak)



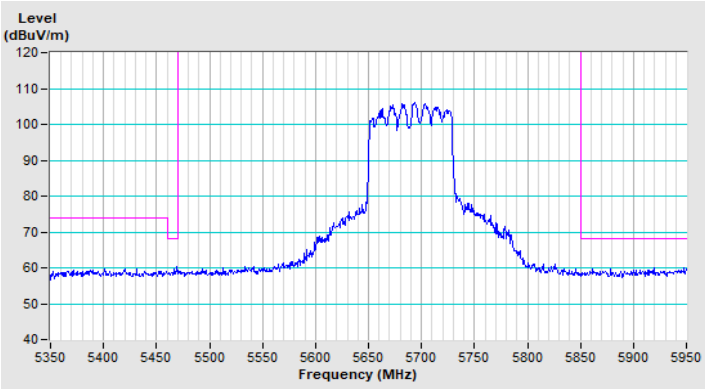
Vertical (Peak)

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

802.11ax (HE80) Channel 138



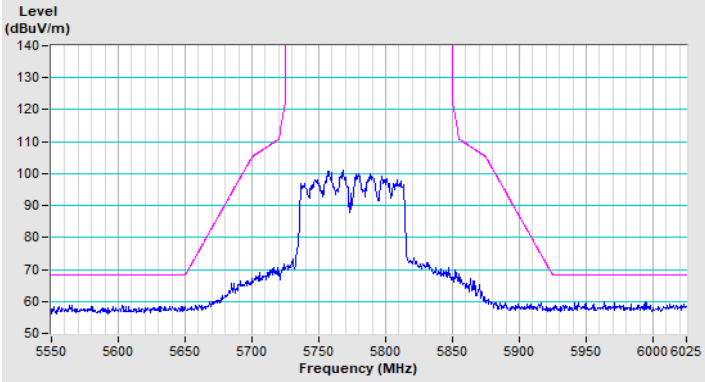
Horizontal (Peak)



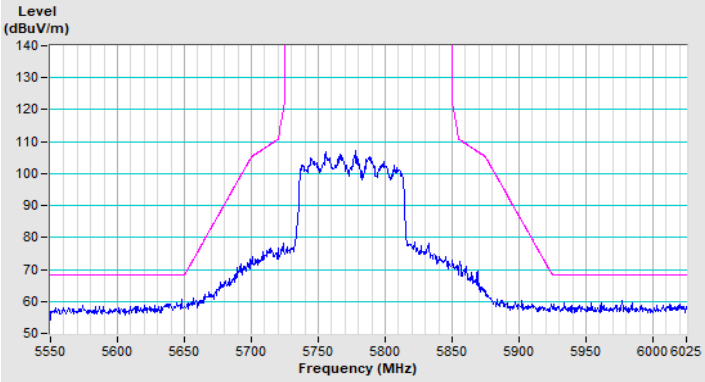
Vertical (Peak)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=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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The address and road map of all our labs can be found in our web site also.

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