

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCWK-WTW-P22070543-1

FCC ID: MSQ-RTAX6700

Product: TUF Gaming AX6000 Dual Band WiFi 6 Router

Brand: ASUS

Model No.: TUF-AX6000

Received Date: 2022/7/19

Test Date: 2023/2/6 ~ 2023/3/1

Issued Date: 2023/3/29

Applicant: ASUSTeK COMPUTER INC.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____

Jeremy Lin

, Date: _____

2023/3/29

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBCWK-WTW-P22070543-1	Original release.	2023/3/29

1 Certificate

Product: TUF Gaming AX6000 Dual Band WiFi 6 Router

Brand: ASUS

Test Model: TUF-AX6000

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: 2023/2/6 ~ 2023/3/1

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

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -20.87 dB at 0.65800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.6 dB at 34.85 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 -0.1 dB at 5353.80 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	TUF Gaming AX6000 Dual Band WiFi 6 Router
Brand	ASUS
Test Model	TUF-AX6000
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7Mbps 802.11ax: up to 4803.9Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	5.18 GHz ~ 5.32 GHz 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5.50 GHz ~ 5.72 GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5.745 GHz ~ 5.825 GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	CDD Mode 5.18 GHz ~ 5.25 GHz : 980.251 mW (29.91 dBm) 5.26 GHz ~ 5.32 GHz : 244.323 mW (23.88 dBm) 5.5 GHz ~ 5.72 GHz : 249.185 mW (23.97 dBm) 5.745 GHz ~ 5.825 GHz : 992.16 mW (29.97 dBm) Beamforming NSS1 Mode: 5.18 GHz ~ 5.25 GHz : 602.419 mW (27.80 dBm) 5.26 GHz ~ 5.32 GHz : 157.454 mW (21.97 dBm) 5.5 GHz ~ 5.72 GHz : 153.311 mW (21.86 dBm) 5.745 GHz ~ 5.825 GHz : 615.699 mW (27.89 dBm) Beamforming NSS2 Mode: 5.18 GHz ~ 5.25 GHz : 980.251 mW (29.91 dBm) 5.26 GHz ~ 5.32 GHz : 244.323 mW (23.88 dBm) 5.5 GHz ~ 5.72 GHz : 249.185 mW (23.97 dBm) 5.745 GHz ~ 5.825 GHz : 992.16 mW (29.97 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

AC Adapter		
Brand	Model	Specification
ChenZhou Frecom Electronics Co., Ltd	F30L10-120250SPAU	AC Input : 100-240V ~ 50/60Hz, 1.25A DC Output : 12.0V, 2.5A, 30.0W DC Output Cable : 1.48M/0 core

2. There are WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Brand	Model	Type	Connector	Frequency Range	Gain (dBi)
RFlink	U00T01S039N01804	Dipole	ipex(MHF)	2400~2483.5MHz	2
RFlink	U00T01S039N01805	Dipole	ipex(MHF)	2400~2483.5MHz	2
RFlink	U00T01S039N01809	Dipole	ipex(MHF)	2400~2483.5MHz	2
RFlink	U00T01S039N01810	Dipole	ipex(MHF)	2400~2483.5MHz	2
RFlink	U00T01S039N01806	Dipole	ipex(MHF)	5150~5850MHz	2
RFlink	U00T01S039N01807	Dipole	ipex(MHF)	5150~5850MHz	2
RFlink	U00T01S039N01809	Dipole	ipex(MHF)	5150~5850MHz	2
RFlink	U00T01S039N01810	Dipole	ipex(MHF)	5150~5850MHz	2

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

2. The EUT incorporates a MIMO function:

5 GHz Band			
Modulation Mode	CDD Mode	Beamforming Mode	TX Function
802.11a	Support	Not Support	4TX
802.11n (HT20)	Support	Support	4TX
802.11n (HT40)	Support	Support	4TX
802.11ac (VHT20)	Support	Support	4TX
802.11ac (VHT40)	Support	Support	4TX
802.11ac (VHT80)	Support	Support	4TX
802.11ac (VHT160)	Support	Support	4TX
802.11ax (HE20)	Support	Support	4TX
802.11ax (HE40)	Support	Support	4TX
802.11ax (HE80)	Support	Support	4TX
802.11ax (HE160)	Support	Support	4TX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT device modulation technique OFDMA does not support partial RUs (resource units).
3. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
4. 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, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 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		

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 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
	802.11ax (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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD & Beamforming NSS 1 & Beamforming NSS 2	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD & Beamforming NSS 1 & Beamforming NSS 2	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD & Beamforming NSS 1 & Beamforming NSS 2	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD & Beamforming NSS 1 & Beamforming NSS 2	50, 114	BPSK	MCS0
Power Spectral Density / 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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
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
Frequency Stability	802.11a	CDD	36	BPSK	6Mb/s
AC Power Conducted Emissions	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	159	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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0

Note: The EUT was positioned on the X-plane during testing.

3.5 Duty Cycle of Test Signal

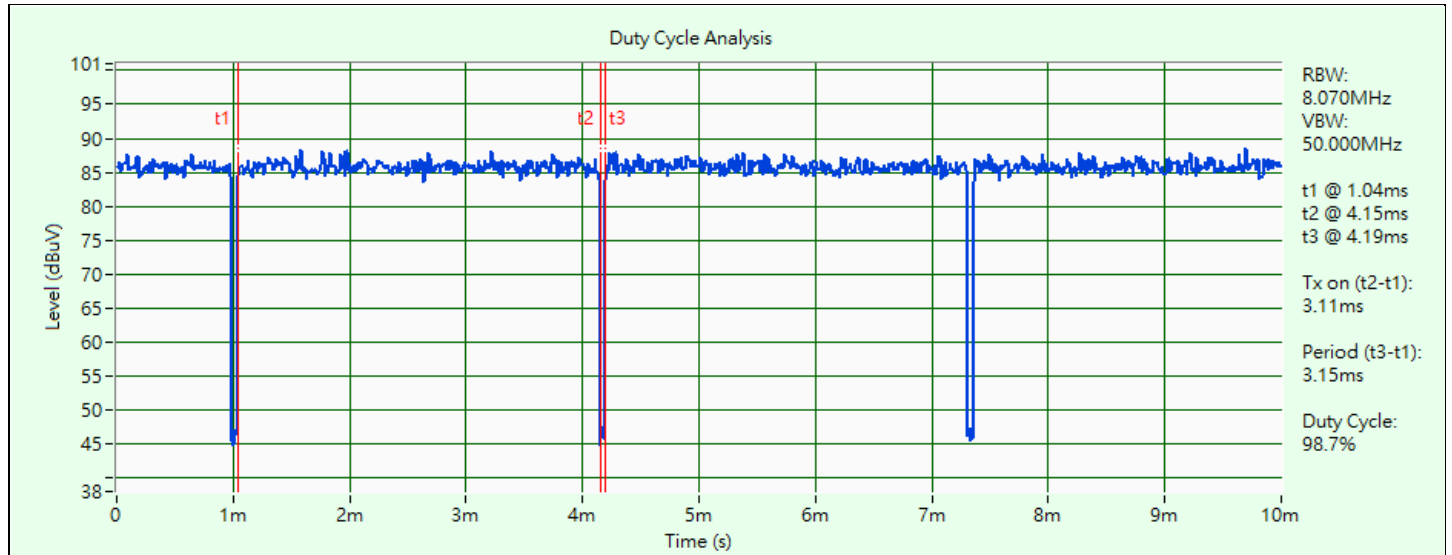
802.11a: Duty cycle = 3.11 ms / 3.15 ms x 100% = 98.7%

802.11ax (HE20): Duty cycle = 3.56 ms / 3.59 ms x 100% = 99.2%

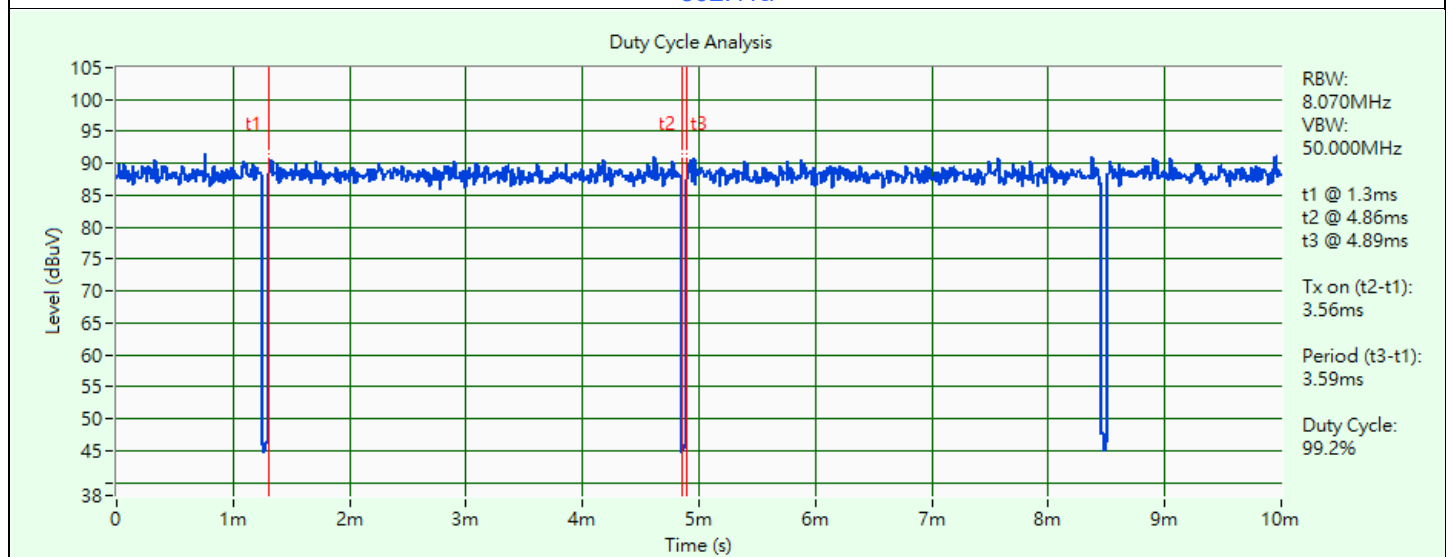
802.11ax (HE40): Duty cycle = 4.725 ms / 4.755 ms x 100% = 99.4%

802.11ax (HE80): Duty cycle = 4.725 ms / 4.755 ms x 100% = 99.4%

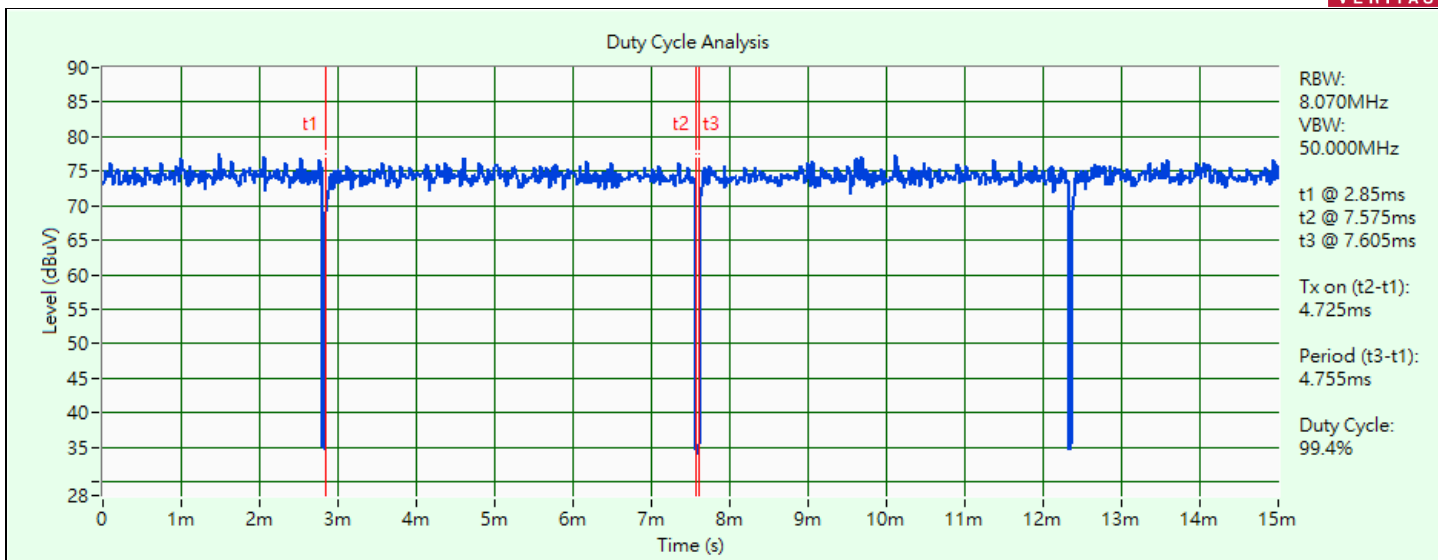
802.11ax (HE160): Duty cycle = 5.16 ms / 5.19 ms x 100% = 99.4%



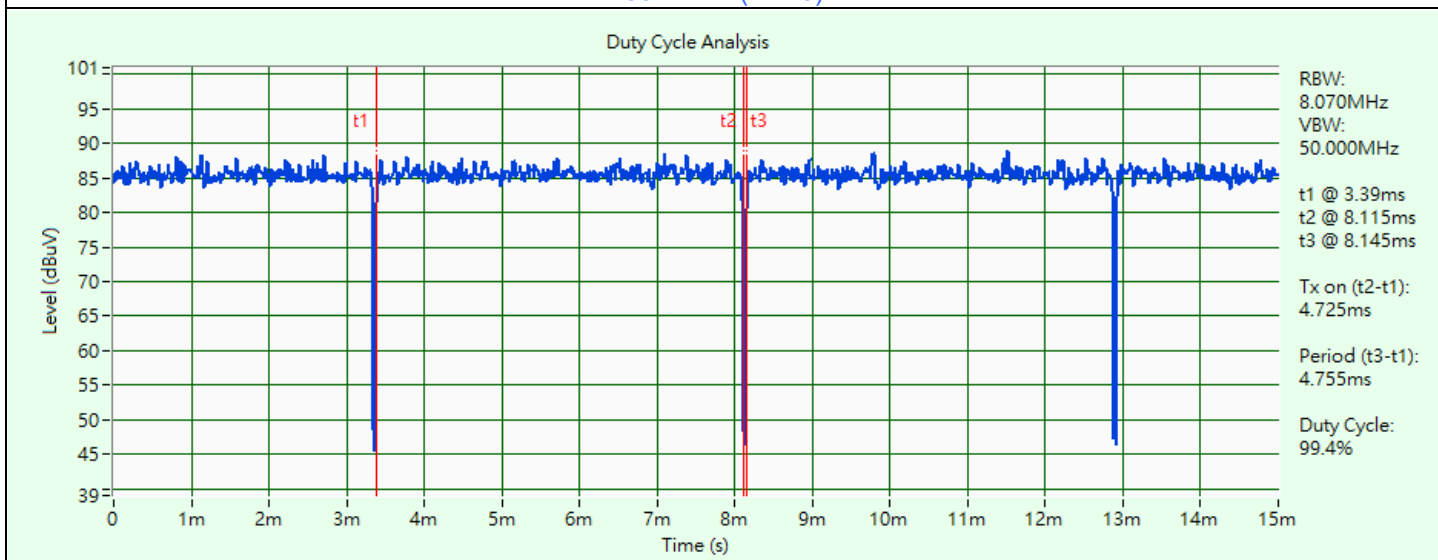
802.11a



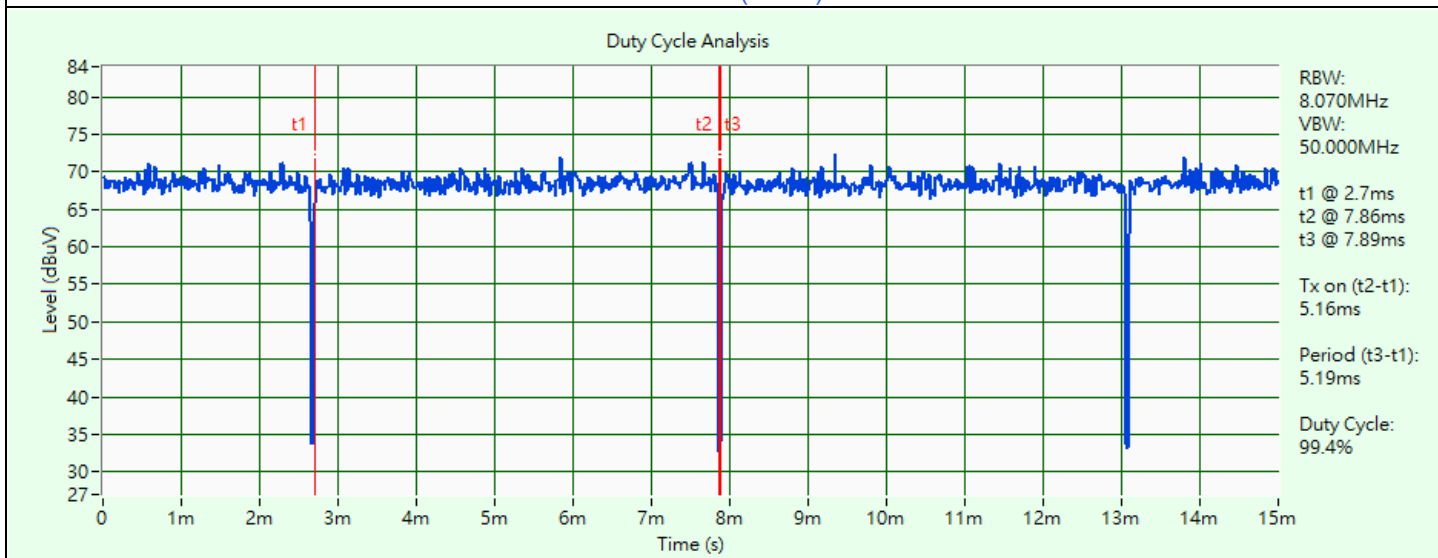
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

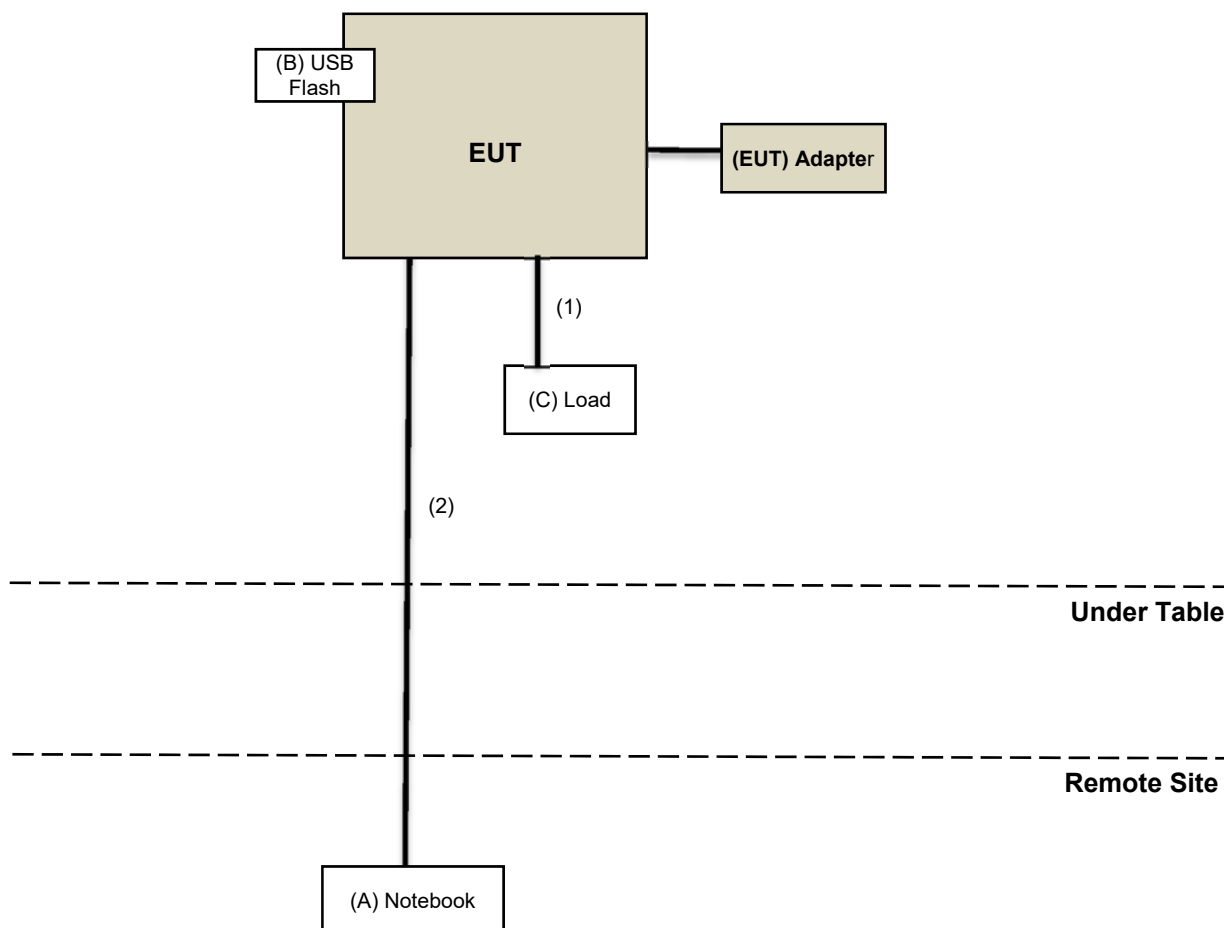


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (QA0.0.2.88) 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	Notebook	Lenovo	L440	R9-0GFJJK	FCC DoC Approved	Provided by Lab
B	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C	Load	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	5	1.5	No	0	Provided by Lab
2	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/12

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
		100980	2022/4/20	2023/4/19
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	2022/7/13	2023/7/12

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/12

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source ExTech	CFW-105	E000603	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/12/27	2023/12/26

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/2/12

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
LISN R&S	ESH3-Z5	100311	2022/9/12	2023/9/11
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2022/12/5	2023/12/4
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/2/8

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB9168	9168-472	2022/10/21	2023/10/20
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-Amplifier EMCI	EMC 330H	980112	2022/10/1	2023/9/30
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable WORKEN	8D-FB	Cable-Ch10-01	2022/10/1	2023/9/30
Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver KEYSIGHT	N9038A	MY55420137	2022/4/27	2023/4/26
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/2/8

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2022/11/13	2023/11/12
	BBHA 9170	148	2022/11/13	2023/11/12
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Pre-Amplifier EMCI	EMC 012645	980115	2022/10/1	2023/9/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
	EMC104-SM-SM- 8000+3000	171005	2022/10/1	2023/9/30
RF Coaxial Cable HUBER SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2022/10/1	2023/9/30
RF FLITER MICRO-TRONICS	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver KEYSIGHT	N9038A	MY55420137	2022/4/27	2023/4/26
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/2/6 ~ 2023/3/1

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

Operation Band	Limit
U-NII-2A	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: 68.2 (dBµV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBµV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBµV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBµV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

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

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

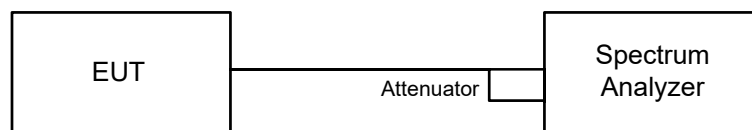
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

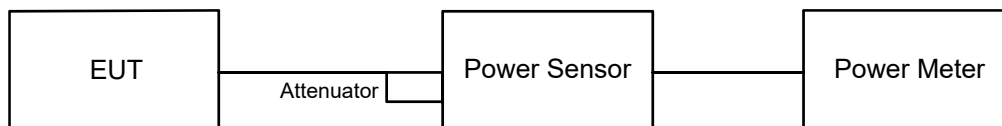


6.1.2 Test Procedure

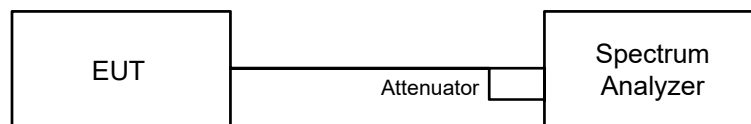
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

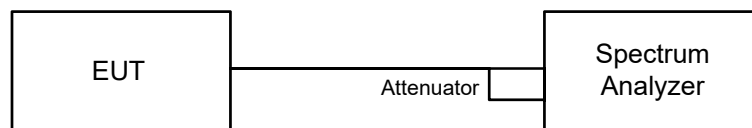
Method SA-1

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

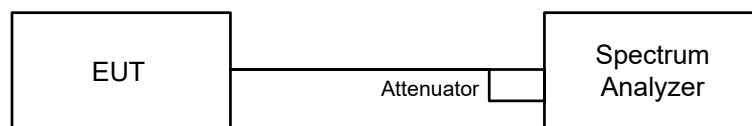
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

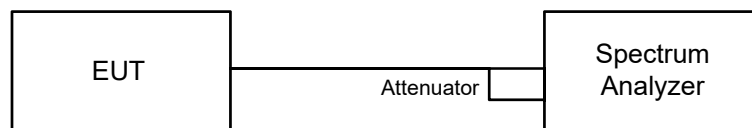


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

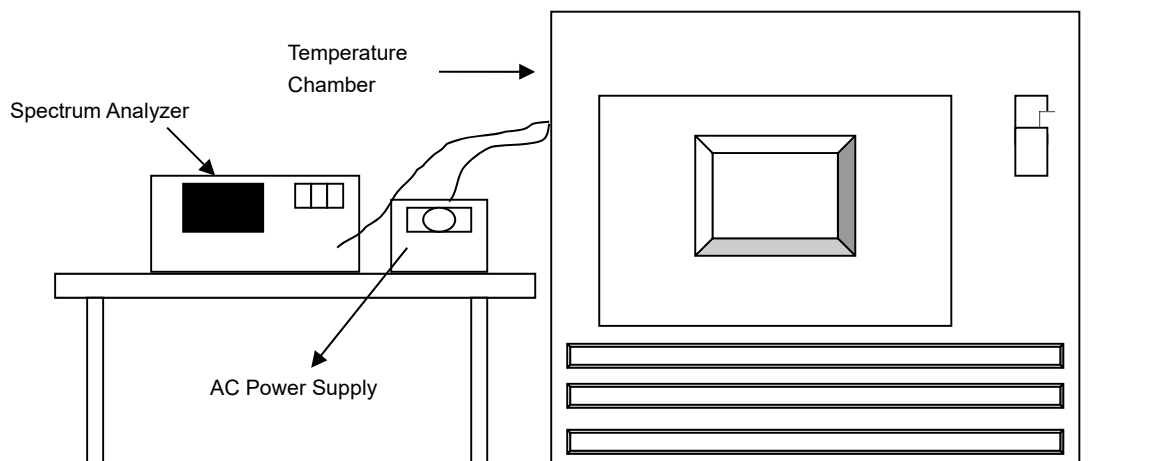


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

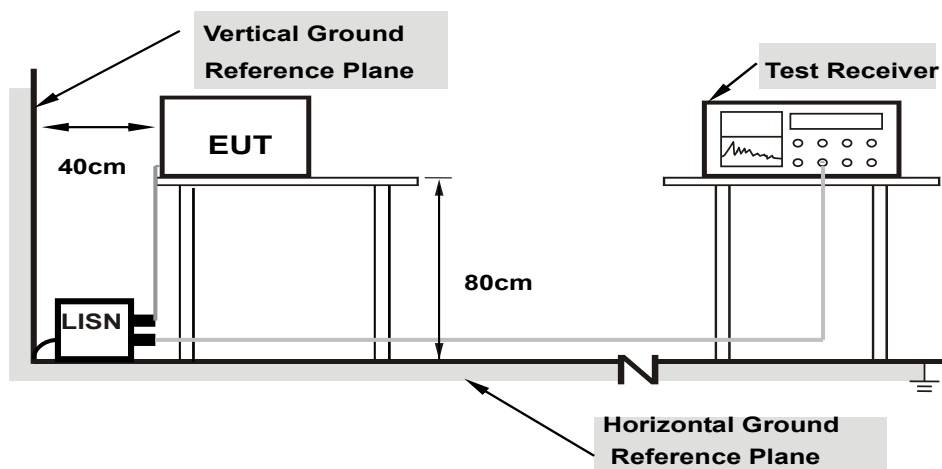


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

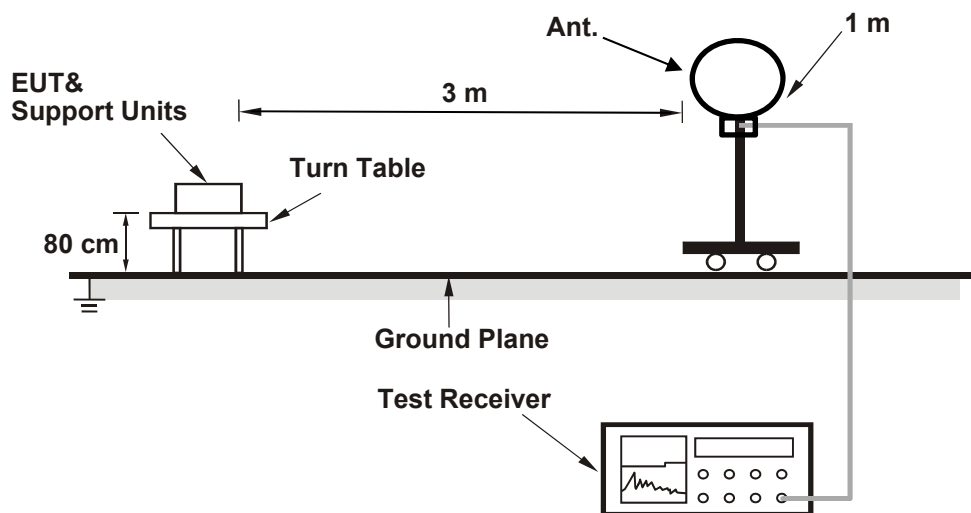
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

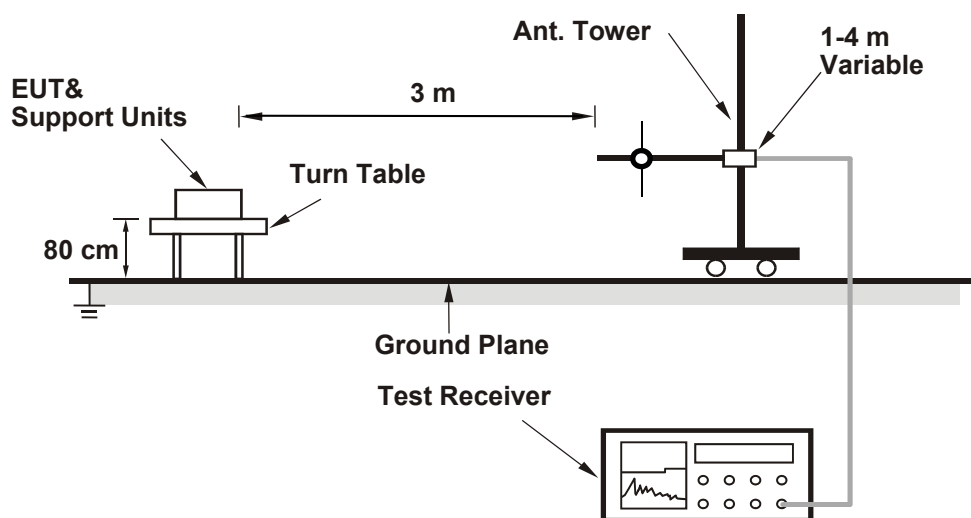
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

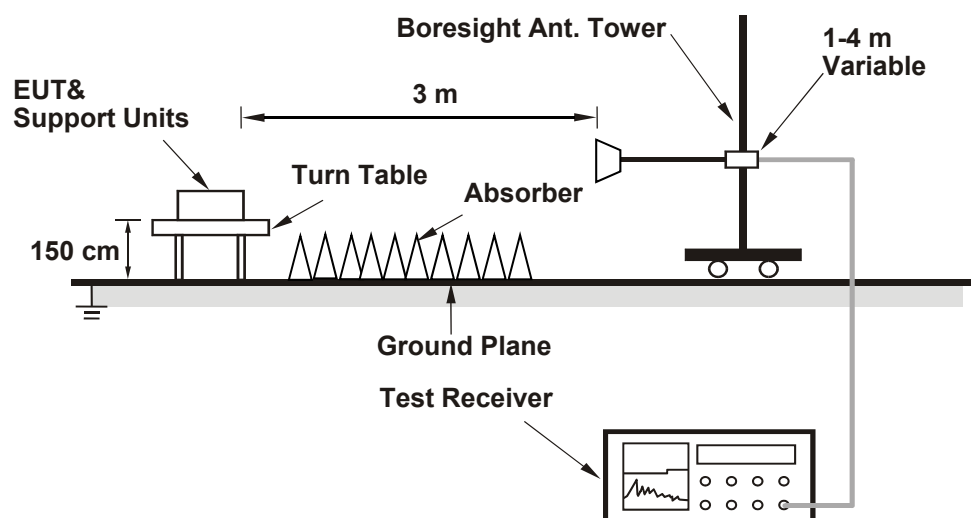
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Alan Wu
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	20.85	20.72	20.50	20.44
60	5300	22.99	23.96	24.30	23.44
64	5320	23.03	22.15	22.05	23.57
100	5500	23.65	22.66	23.17	23.96
116	5580	20.76	20.86	20.43	20.38
140	5700	23.35	22.03	22.55	22.79
144 (U-NII-2C)	5720	15.59	15.33	15.19	15.38
144 (U-NII-3)	5720	5.49	5.42	5.15	5.28

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.44	24.1 > 24
60	5300	22.99	24.61 > 24
64	5320	22.05	24.43 > 24
100	5500	22.66	24.55 > 24
116	5580	20.38	24.09 > 24
140	5700	22.03	24.43 > 24
144 (U-NII-2C)	5720	15.19	22.81 < 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	Chain 2	Chain 3
52	5260	21.67	21.24	21.93	21.86
60	5300	22.23	22.36	23.04	22.68
64	5320	22.06	22.48	22.64	22.52
100	5500	22.50	22.20	22.28	22.64
116	5580	21.78	21.82	21.79	21.72
140	5700	22.66	22.66	22.28	22.24
144 (U-NII-2C)	5720	15.95	15.98	15.84	16.03
144 (U-NII-3)	5720	5.79	6.09	5.76	5.88

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.24	24.27 > 24
60	5300	22.23	24.46 > 24
64	5320	22.06	24.43 > 24
100	5500	22.20	24.46 > 24
116	5580	21.72	24.36 > 24
140	5700	22.24	24.47 > 24
144 (U-NII-2C)	5720	15.84	22.99 < 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	Chain 2	Chain 3
54	5270	40.53	40.64	40.61	40.68
62	5310	40.90	47.19	43.11	43.42
102	5510	40.96	41.06	43.38	42.76
110	5550	40.65	40.61	40.55	40.61
134	5670	46.39	45.68	47.54	41.04
142 (U-NII-2C)	5710	35.31	35.29	35.33	35.37
142 (U-NII-3)	5710	5.28	5.29	5.31	5.31

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.53	27.07 > 24
62	5310	40.90	27.11 > 24
102	5510	40.96	27.12 > 24
110	5550	40.55	27.07 > 24
134	5670	41.04	27.13 > 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.

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	84.22	83.31	84.78	81.36
106	5530	81.47	81.48	81.42	81.68
122	5610	80.91	81.07	81.09	81.05
138 (U-NII-2C)	5690	75.47	75.55	75.51	75.43
138 (U-NII-3)	5690	5.49	5.57	5.51	5.47

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.36	30.1 > 24
106	5530	81.42	30.1 > 24
122	5610	80.91	30.08 > 24
138 (U-NII-2C)	5690	75.43	29.77 > 24

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

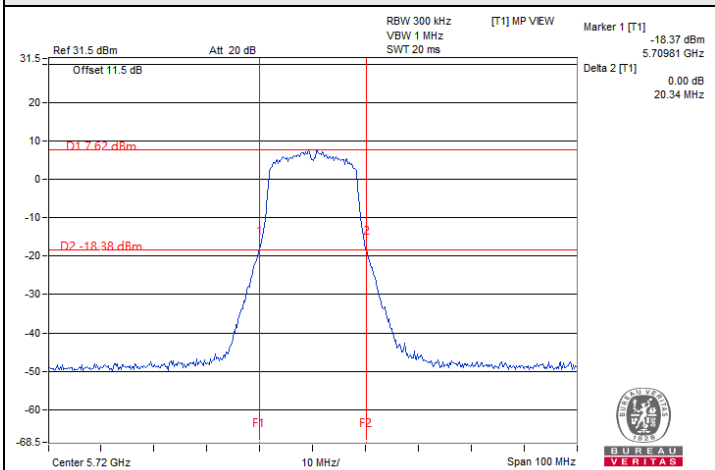
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	82.94	83.03	83.01	83.02
50 (U-NII-2A)	5250	82.89	82.99	83.12	82.86
114	5570	166.85	165.97	165.79	166.13

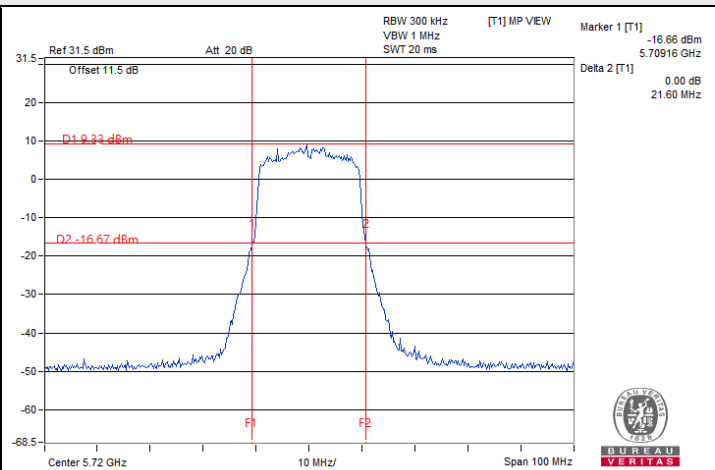
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.86	30.18 > 24
114	5570	165.79	33.19 > 24

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

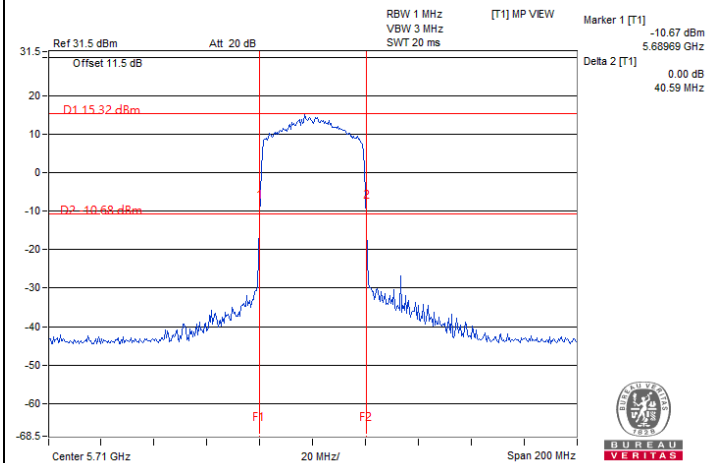
Spectrum Plot of Minimum Value



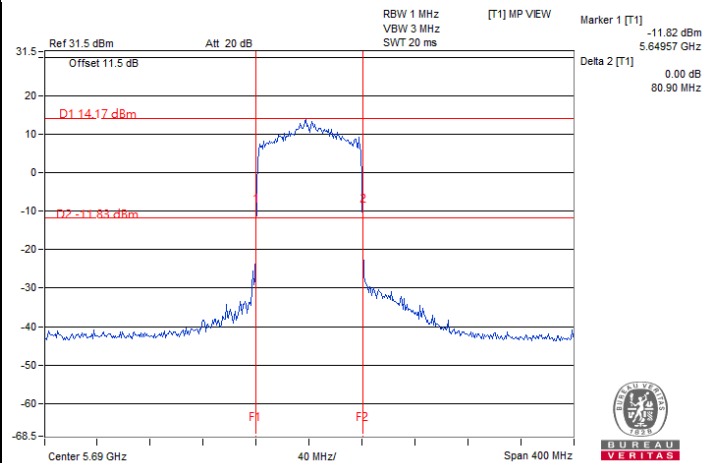
802.11a / Chain 2 : CH 144 (U-NII-3)



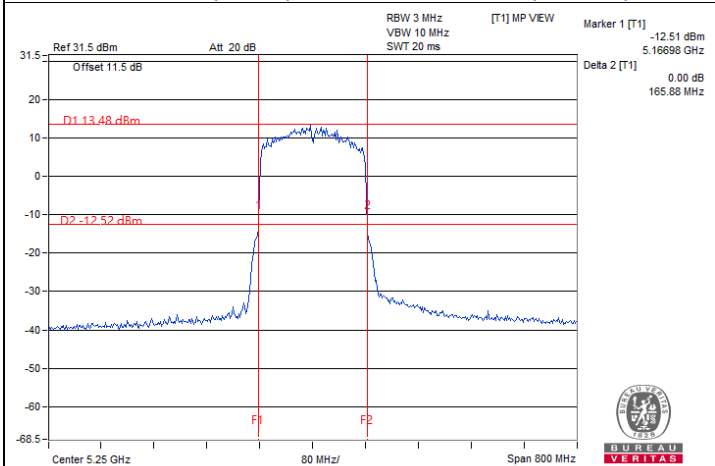
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



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



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



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-2A)

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
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Alan Wu
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.71	20.49	20.40	20.52	452.072	26.55	30	Pass
40	5200	20.14	19.77	19.50	19.80	382.742	25.83	30	Pass
48	5240	20.25	20.00	19.85	20.15	406.045	26.09	30	Pass
52	5260	15.23	14.79	14.75	14.85	123.876	20.93	24	Pass
60	5300	14.92	14.71	14.78	14.86	121.306	20.84	24	Pass
64	5320	15.11	14.82	14.73	14.79	122.62	20.89	24	Pass
100	5500	15.12	14.82	14.61	14.95	123.015	20.90	24	Pass
116	5580	15.23	14.97	14.72	15.07	126.533	21.02	24	Pass
140	5700	15.35	14.71	14.40	15.24	124.819	20.96	24	Pass
*144 (U-NII-2C)	5720	14.25	14.12	13.78	14.23	102.793	20.12	22.81	Pass
*144 (U-NII-3)	5720	7.54	7.18	6.44	7.48	20.903	13.20	30	Pass
149	5745	24.08	23.89	23.58	24.02	981.147	29.92	30	Pass
157	5785	24.07	23.85	23.56	24.01	976.685	29.90	30	Pass
165	5825	24.01	23.83	23.73	23.87	973.143	29.88	30	Pass

Notes:

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

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.74	20.63	20.42	20.66	460.755	26.63	30	Pass
40	5200	20.62	20.25	20.10	20.44	434.262	26.38	30	Pass
48	5240	20.74	20.35	20.22	20.57	446.191	26.50	30	Pass
52	5260	16.25	15.90	15.71	16.11	159.145	22.02	24	Pass
60	5300	16.25	15.78	15.68	16.07	157.454	21.97	24	Pass
64	5320	16.13	15.82	15.73	16.10	157.364	21.97	24	Pass
100	5500	15.68	15.37	15.19	15.57	140.513	21.48	24	Pass
116	5580	15.64	15.46	15.23	15.61	141.534	21.51	24	Pass
140	5700	14.57	13.97	13.68	14.22	103.346	20.14	24	Pass
*144 (U-NII-2C)	5720	14.46	14.14	13.97	14.35	106.04	20.25	22.99	Pass
*144 (U-NII-3)	5720	7.92	8.31	7.93	7.50	24.803	13.95	30	Pass
149	5745	24.12	23.75	23.68	23.95	977.023	29.90	30	Pass
157	5785	24.21	23.81	23.72	23.98	989.609	29.95	30	Pass
165	5825	24.16	23.79	23.70	23.91	980.407	29.91	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 directional gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.25	19.14	19.03	19.18	328.952	25.17	30	Pass
46	5230	24.04	23.88	23.64	24.00	980.251	29.91	30	Pass
54	5270	17.98	17.86	17.67	17.92	244.323	23.88	24	Pass
62	5310	13.49	13.05	12.84	13.30	83.13	19.20	24	Pass
102	5510	14.80	14.17	13.89	14.25	107.419	20.31	24	Pass
110	5550	18.08	17.70	17.62	17.89	242.48	23.85	24	Pass
134	5670	18.12	17.84	17.71	17.95	247.071	23.93	24	Pass
*142 (U-NII-2C)	5710	17.35	17.03	17.22	16.95	207.059	23.16	24	Pass
*142 (U-NII-3)	5710	4.48	5.18	4.88	5.66	12.859	11.09	30	Pass
151	5755	24.11	23.85	23.74	24.02	989.233	29.95	30	Pass
159	5795	24.14	23.86	23.74	24.03	992.16	29.97	30	Pass

Notes:

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

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	18.77	18.58	18.46	18.65	290.874	24.64	30	Pass
58	5290	17.68	17.55	17.32	17.58	226.73	23.56	24	Pass
106	5530	17.45	16.89	16.85	17.33	206.948	23.16	24	Pass
122	5610	18.11	17.89	17.75	18.02	249.185	23.97	24	Pass
*138 (U-NII-2C)	5690	17.14	17.03	17.05	17.06	203.742	23.09	24	Pass
*138 (U-NII-3)	5690	1.50	0.75	1.97	1.72	5.661	7.53	30	Pass
155	5775	23.66	23.54	23.51	23.56	909.592	29.59	30	Pass

Notes:

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

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	16.63	16.04	16.12	16.22	169.01	22.28	30	Pass
*50 (U-NII-2A)	5250	16.27	16.09	16.18	16.24	166.577	22.22	24	Pass
114	5570	17.89	17.54	17.44	17.56	230.751	23.63	24	Pass

Notes:

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

NSS 1

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.74	20.63	20.42	20.66	460.755	26.63	27.98	Pass
40	5200	20.62	20.25	20.10	20.44	434.262	26.38	27.98	Pass
48	5240	20.74	20.35	20.22	20.57	446.191	26.50	27.98	Pass
52	5260	15.72	15.49	15.23	15.62	142.543	21.54	21.98	Pass
60	5300	16.25	15.78	15.68	16.07	157.454	21.97	21.98	Pass
64	5320	16.13	15.82	15.73	16.10	157.364	21.97	21.98	Pass
100	5500	15.68	15.37	15.19	15.57	140.513	21.48	21.98	Pass
116	5580	15.64	15.46	15.23	15.61	141.534	21.51	21.98	Pass
140	5700	14.57	13.97	13.68	14.22	103.346	20.14	21.98	Pass
*144 (U-NII-2C)	5720	14.46	14.14	13.97	14.35	106.04	20.25	20.97	Pass
*144 (U-NII-3)	5720	7.92	8.31	7.93	7.50	24.803	13.95	27.98	Pass
149	5745	22.03	21.62	21.54	21.84	600.116	27.78	27.98	Pass
157	5785	22.13	21.79	21.69	21.87	615.699	27.89	27.98	Pass
165	5825	22.07	21.66	21.67	21.80	605.868	27.82	27.98	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.02 - 6) = 27.98$ dBm.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.02 - 6)].
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (8.02 - 6)].
- For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (8.02 - 6) = 27.98$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.25	19.14	19.03	19.18	328.952	25.17	27.98	Pass
46	5230	21.94	21.76	21.50	21.90	602.419	27.80	27.98	Pass
54	5270	15.87	15.74	15.53	15.81	149.968	21.76	21.98	Pass
62	5310	13.49	13.05	12.84	13.30	83.13	19.20	21.98	Pass
102	5510	14.80	14.17	13.89	14.25	107.419	20.31	21.98	Pass
110	5550	15.98	15.67	15.58	15.77	150.424	21.77	21.98	Pass
134	5670	16.03	15.72	15.68	15.84	152.765	21.84	21.98	Pass
*142 (U-NII-2C)	5710	15.48	15.13	15.34	15.04	134.015	21.27	21.98	Pass
*142 (U-NII-3)	5710	2.52	3.29	2.96	3.72	8.252	9.17	27.98	Pass
151	5755	22.02	21.73	21.61	21.92	608.631	27.84	27.98	Pass
159	5795	22.05	21.74	21.61	21.93	610.436	27.86	27.98	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.02-6) = 27.98$ dBm.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].
- For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.02-6) = 27.98$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	18.77	18.58	18.46	18.65	290.874	24.64	27.98	Pass
58	5290	15.68	15.55	15.33	15.56	142.969	21.55	21.98	Pass
106	5530	15.96	15.35	15.36	15.88	146.804	21.67	21.98	Pass
122	5610	16.02	15.77	15.62	15.92	153.311	21.86	21.98	Pass
*138 (U-NII-2C)	5690	15.25	15.13	15.15	15.16	131.624	21.19	21.98	Pass
*138 (U-NII-3)	5690	-0.55	-1.17	-0.13	-0.24	3.5616	5.52	27.98	Pass
155	5775	21.83	21.50	21.21	21.72	574.382	27.59	27.98	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.02-6) = 27.98$ dBm.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].
- For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.02-6) = 27.98$ dBm.

802.11ax (HE160) Beamforming

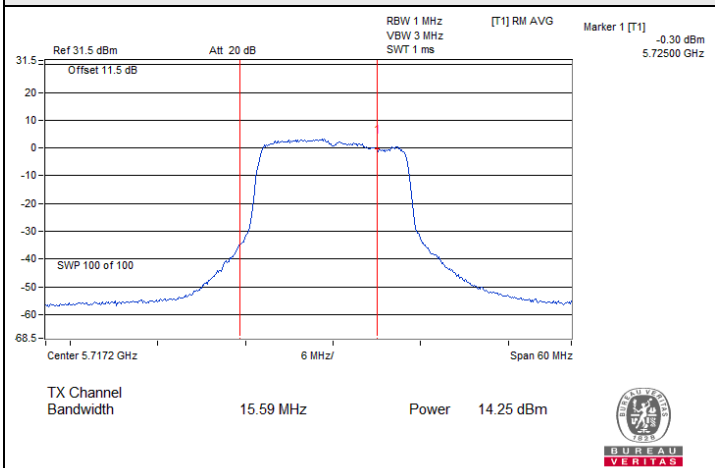
Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	15.59	15.01	15.08	15.18	133.092	21.24	27.98	Pass
*50 (U-NII-2A)	5250	15.22	15.04	15.15	15.20	131.029	21.17	21.98	Pass
114	5570	15.92	15.56	15.48	15.62	146.853	21.67	21.98	Pass

Notes:

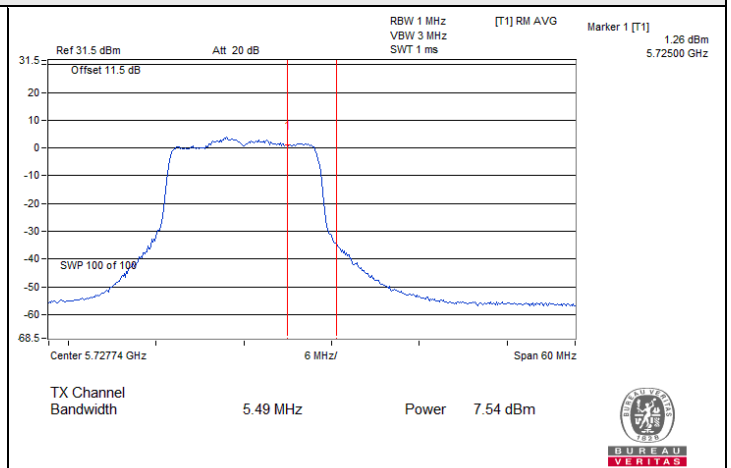
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to $30-(8.02-6) = 27.98$ dBm.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(8.02-6)].



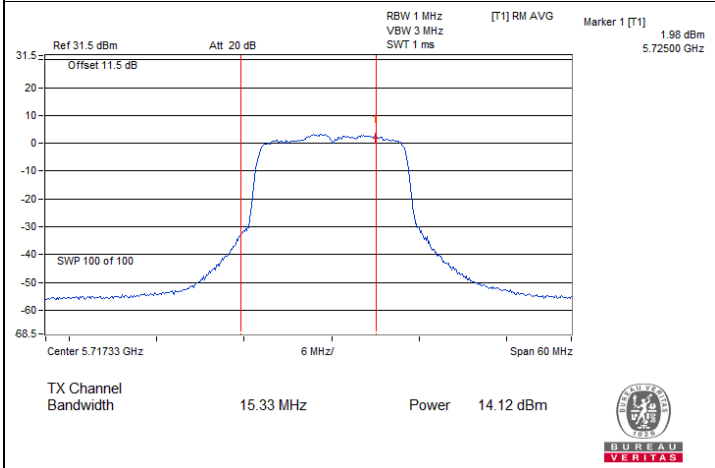
Spectrum Plot for channel straddling



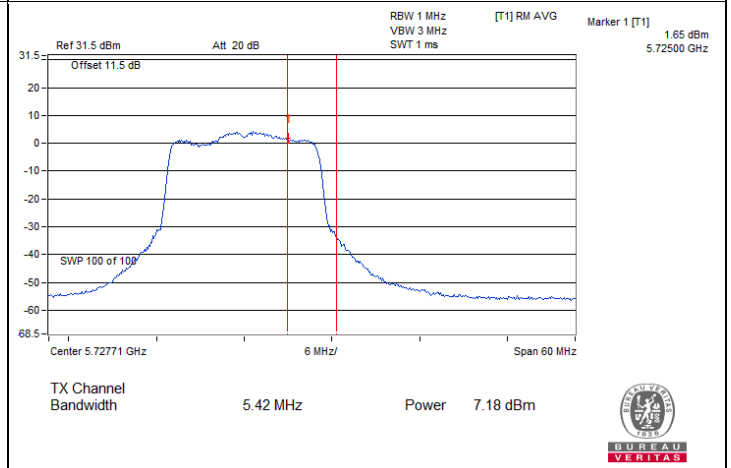
802.11a / Chain 0 : CH 144 (U-NII-2C)



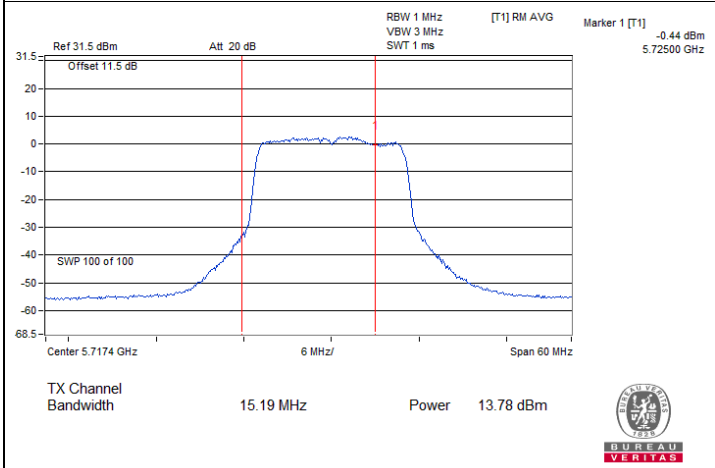
802.11a / Chain 0 : CH 144 (U-NII-3)



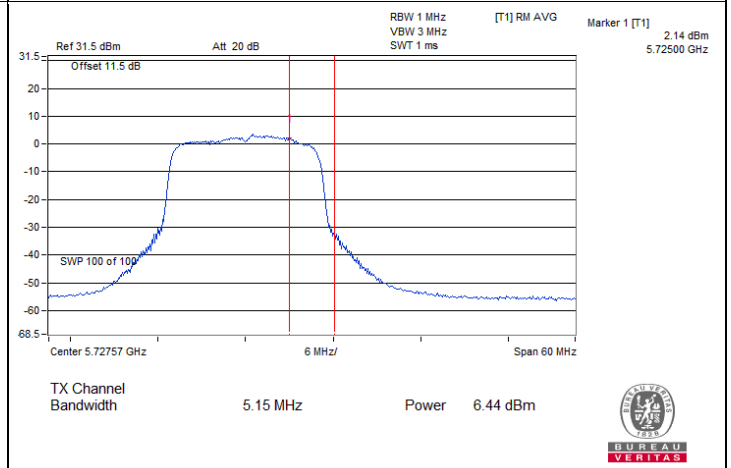
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

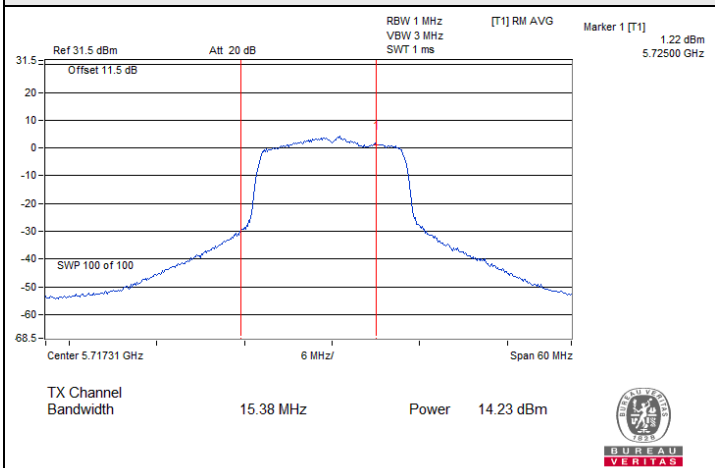


802.11a / Chain 2 : CH 144 (U-NII-2C)

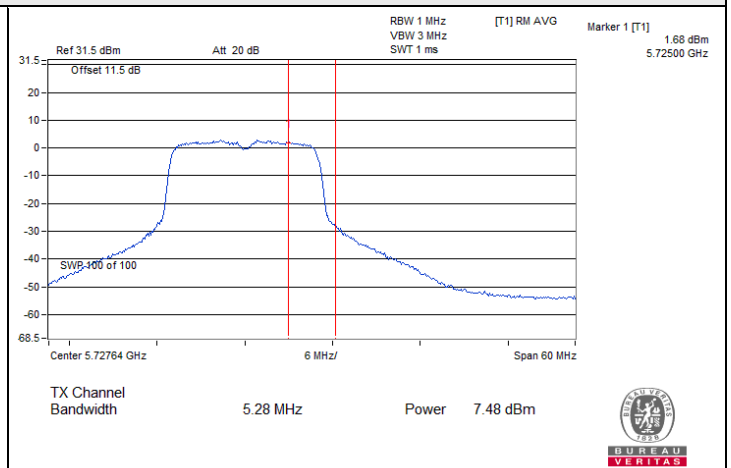


802.11a / Chain 2 : CH 144 (U-NII-3)

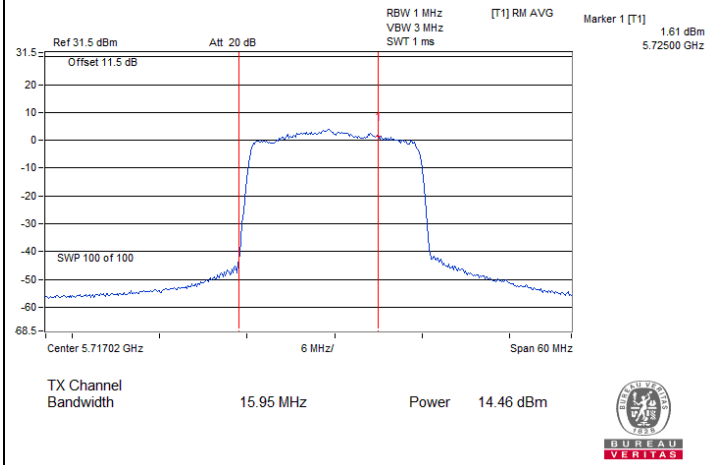
Spectrum Plot for channel straddling



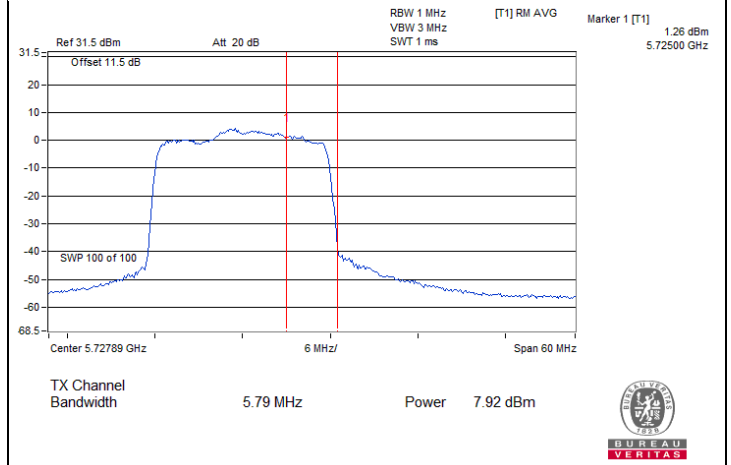
802.11a / Chain 3 : CH 144 (U-NII-2C)



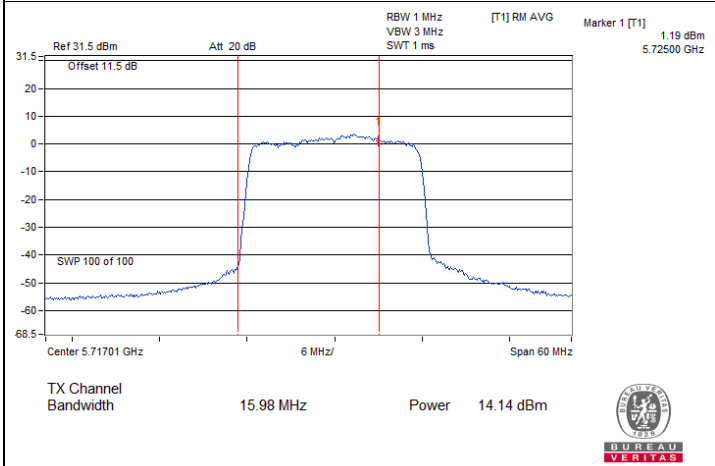
802.11a / Chain 3 : CH 144 (U-NII-3)



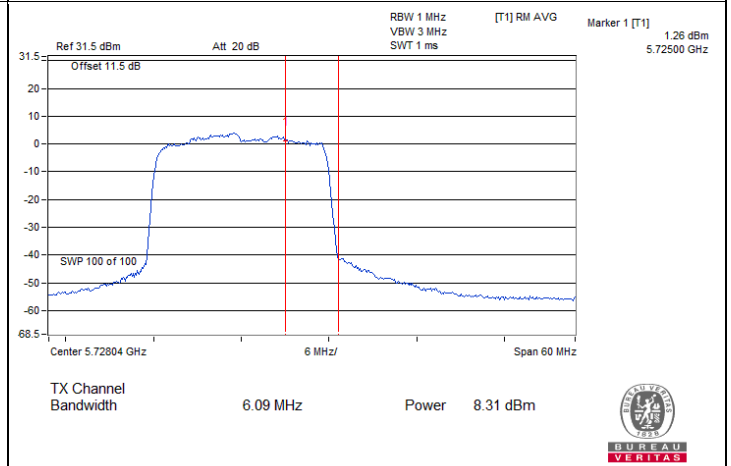
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



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



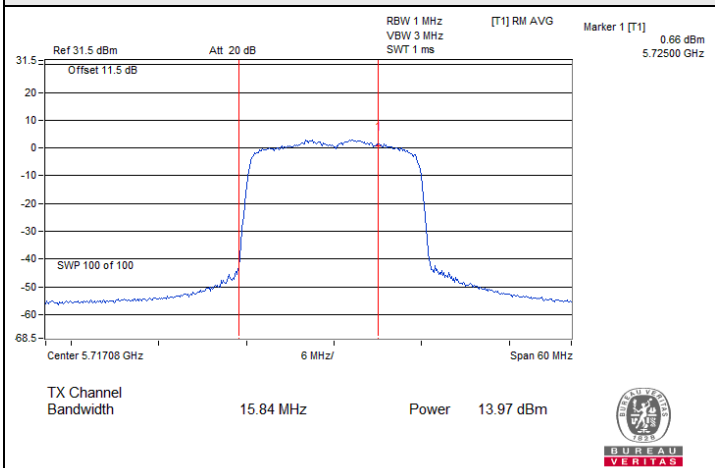
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



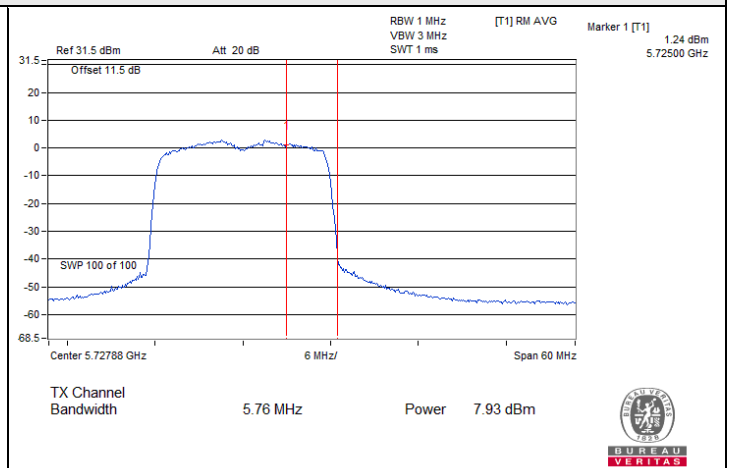
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



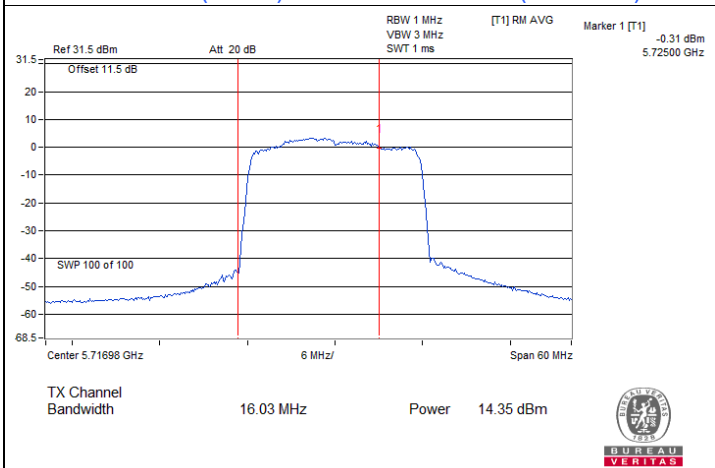
Spectrum Plot for channel straddling



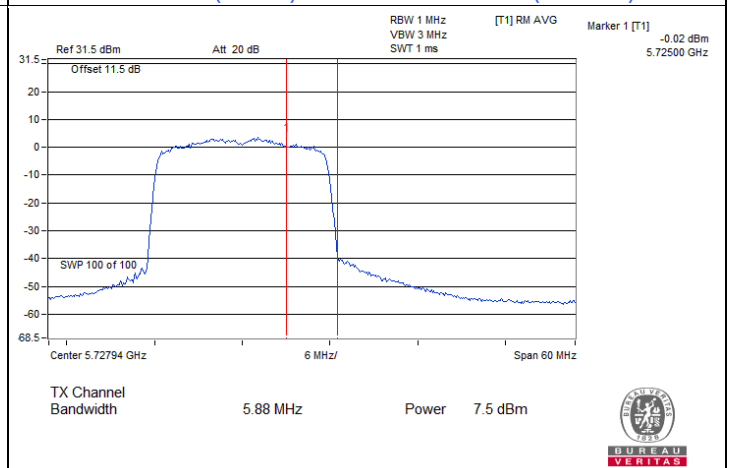
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-2C)



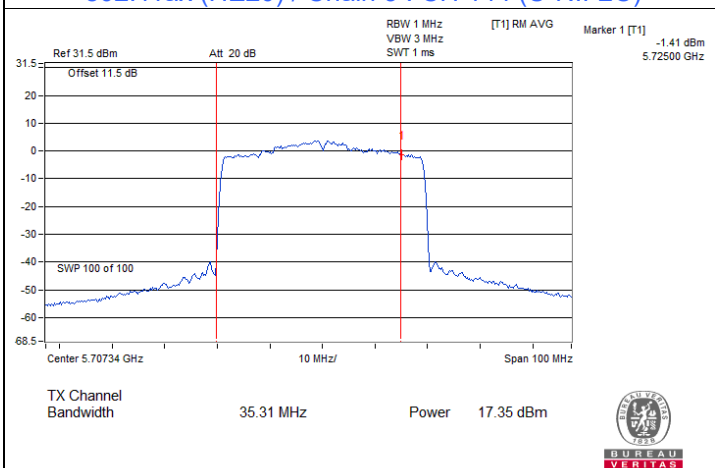
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



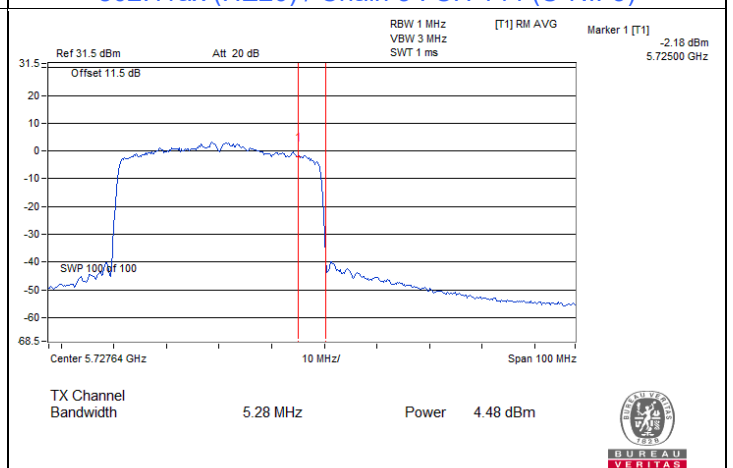
802.11ax (HE20) / Chain 3 : CH 144 (U-NII-2C)



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



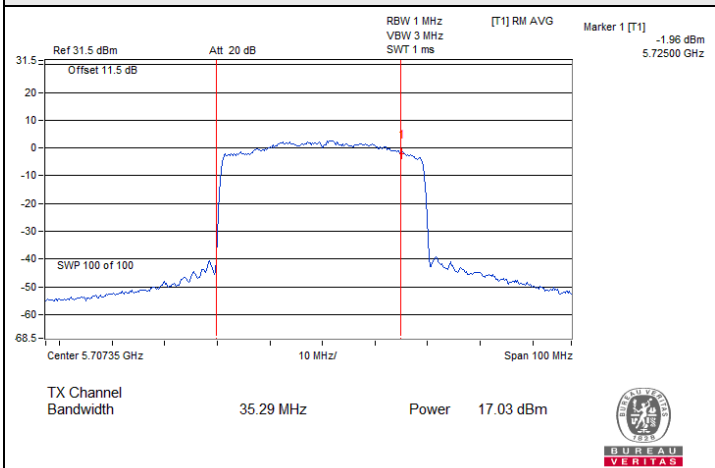
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



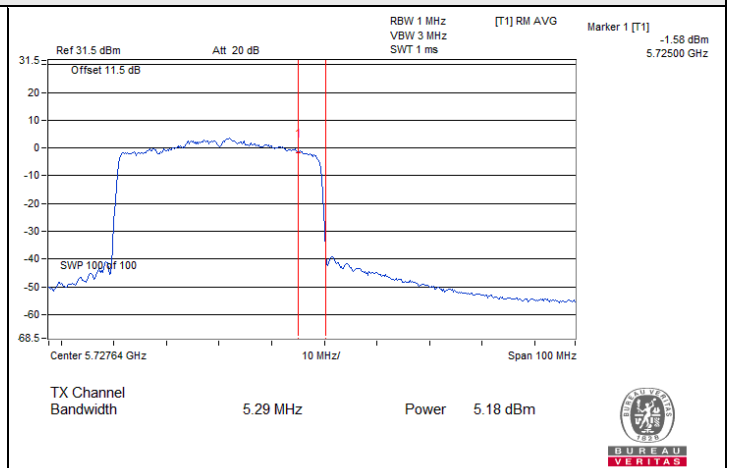
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



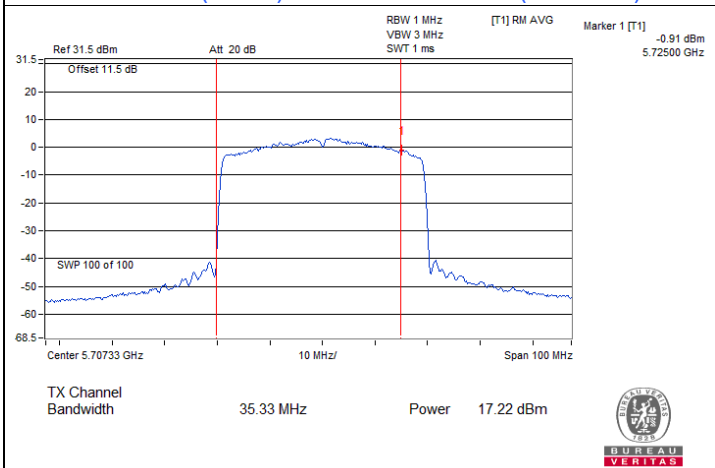
Spectrum Plot for channel straddling



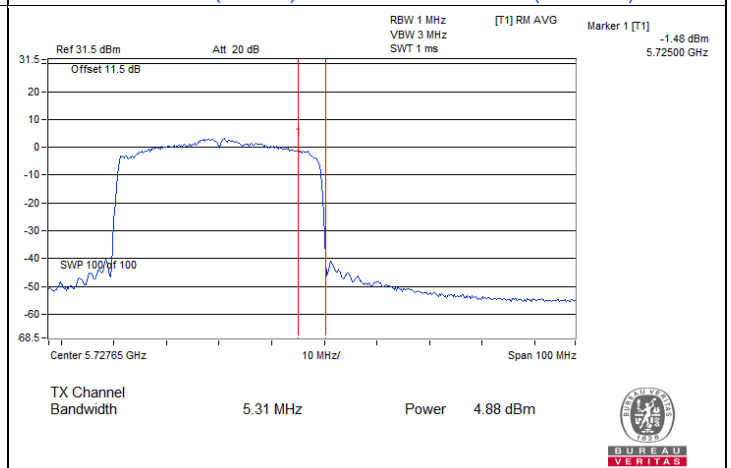
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



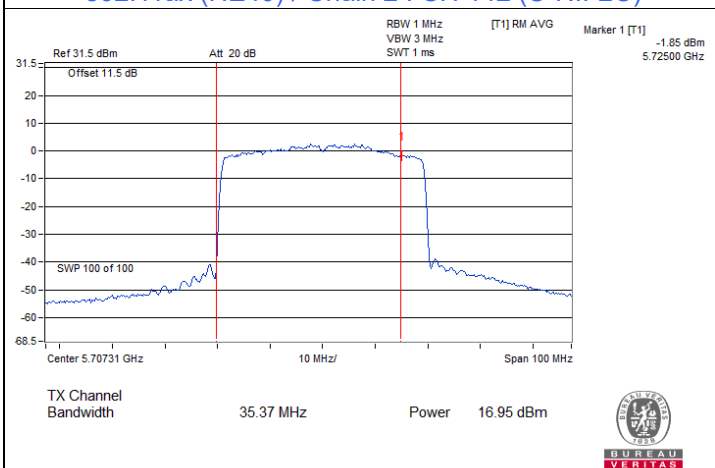
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



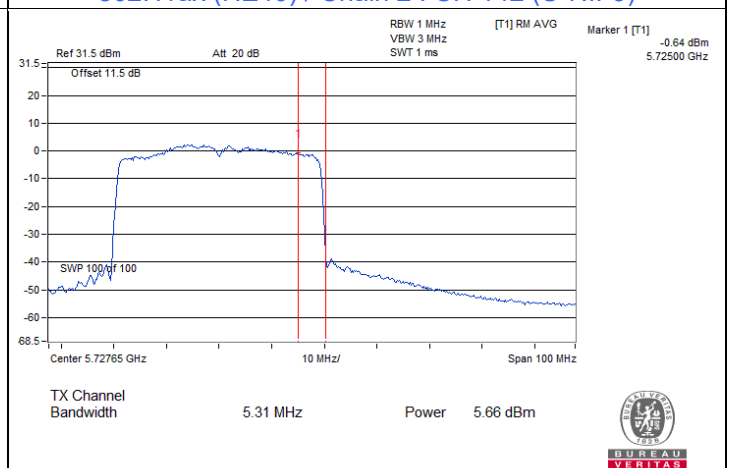
802.11ax (HE40) / Chain 2 : CH 142 (U-NII-2C)



802.11ax (HE40) / Chain 2 : CH 142 (U-NII-3)

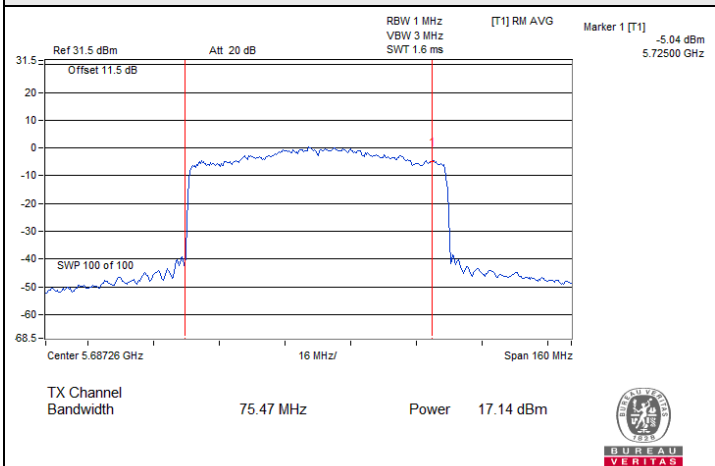


802.11ax (HE40) / Chain 3 : CH 142 (U-NII-2C)

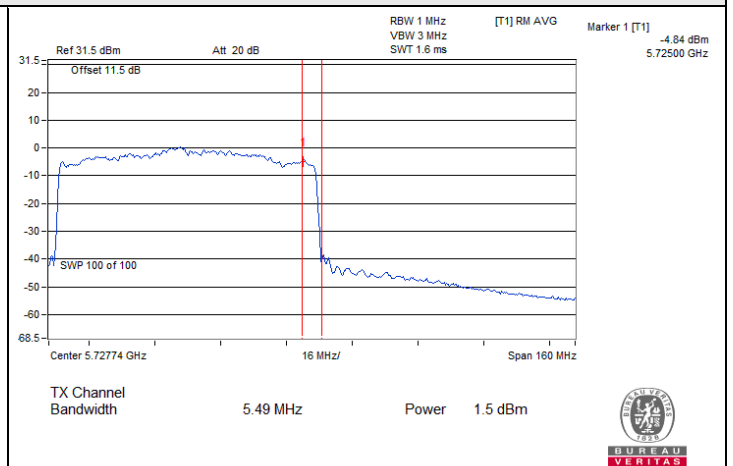


802.11ax (HE40) / Chain 3 : CH 142 (U-NII-3)

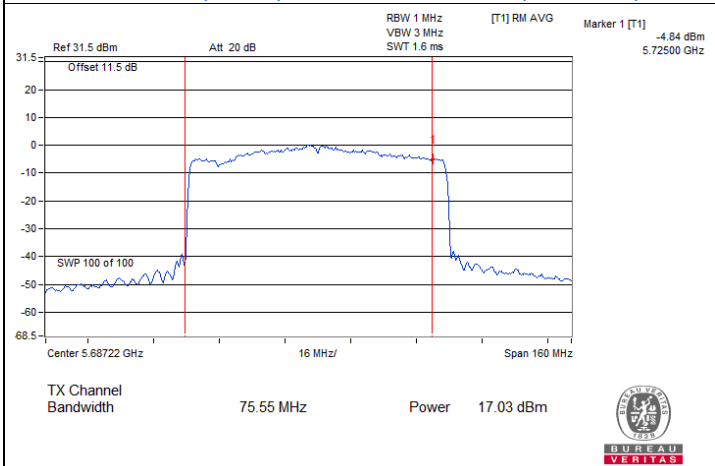
Spectrum Plot for channel straddling



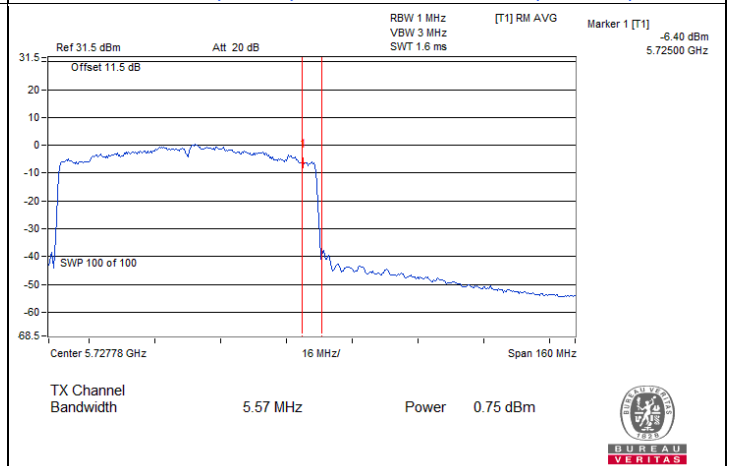
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



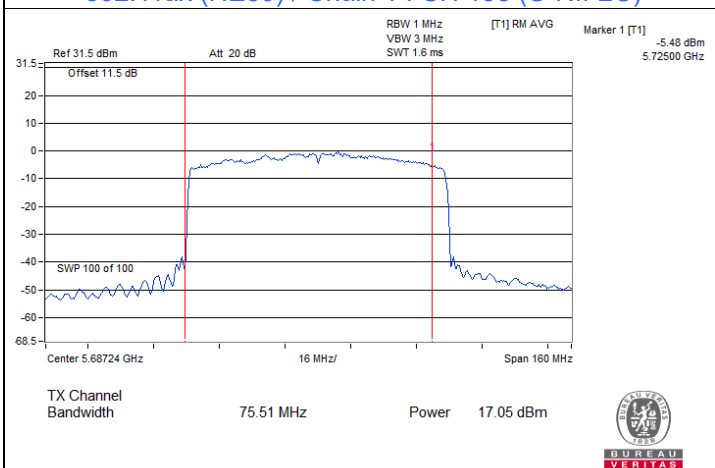
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



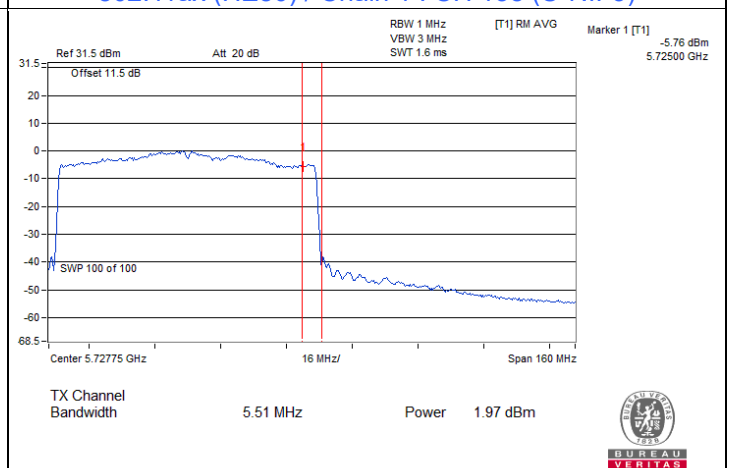
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



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

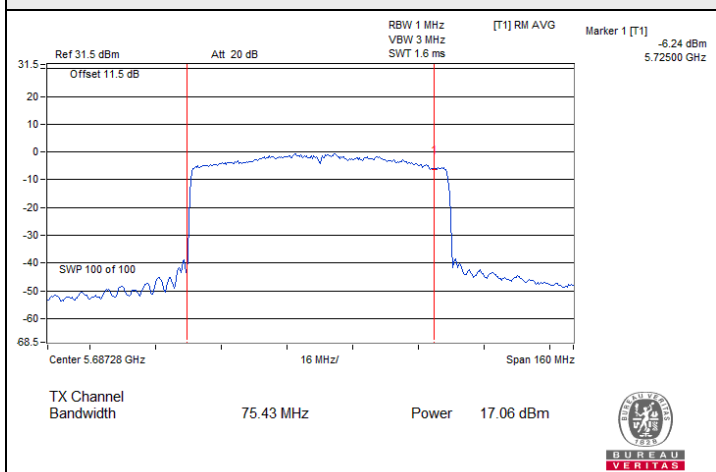


802.11ax (HE80) / Chain 2 : CH 138 (U-NII-2C)

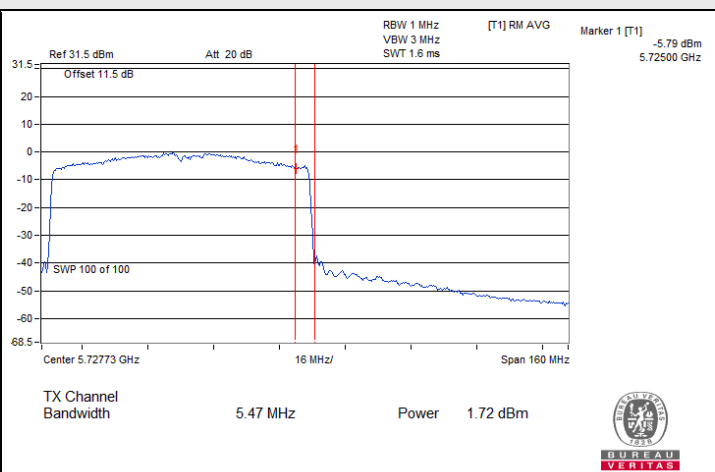


802.11ax (HE80) / Chain 2 : CH 138 (U-NII-3)

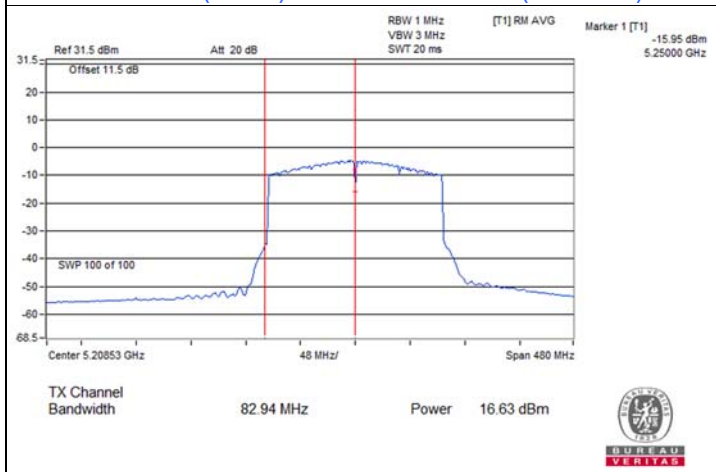
Spectrum Plot for channel straddling



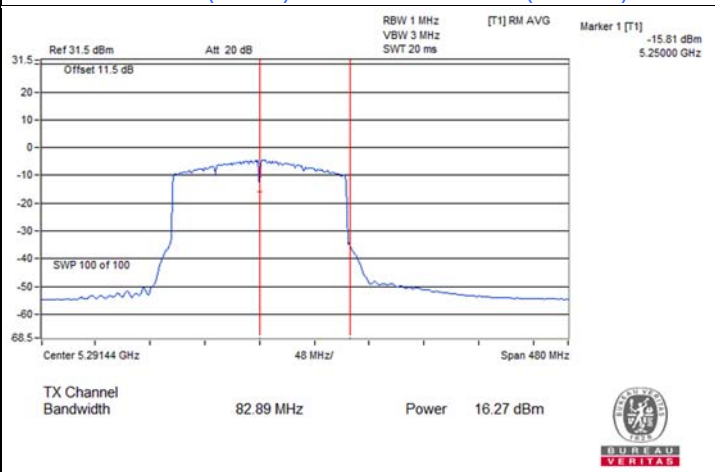
802.11ax (HE80) / Chain 3 : CH 138 (U-NII-2C)



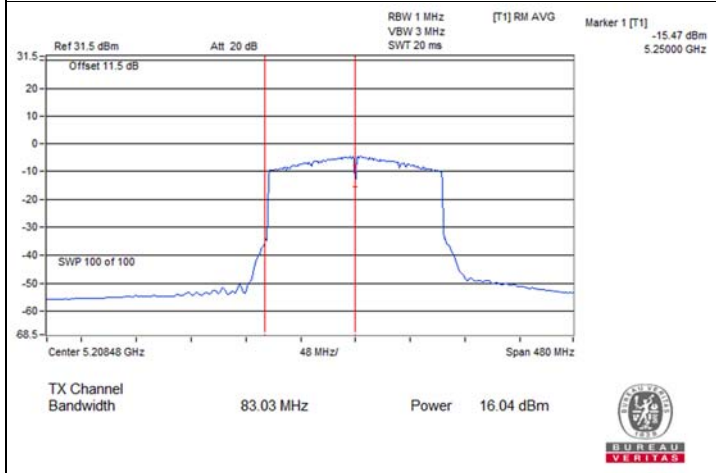
802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)



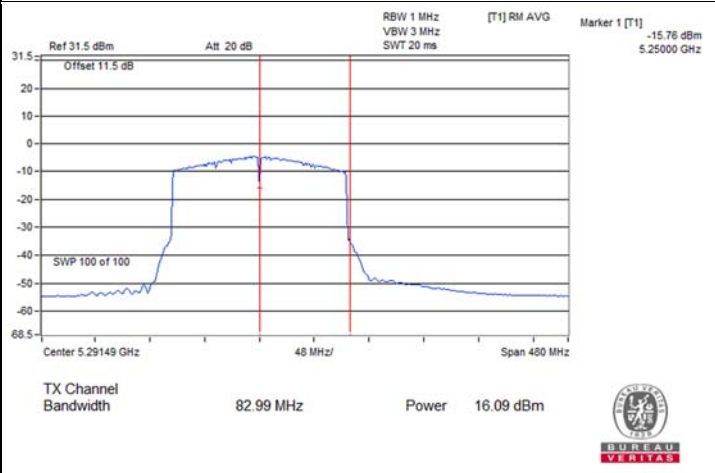
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 0 : CH 50 (U-NII-2A)

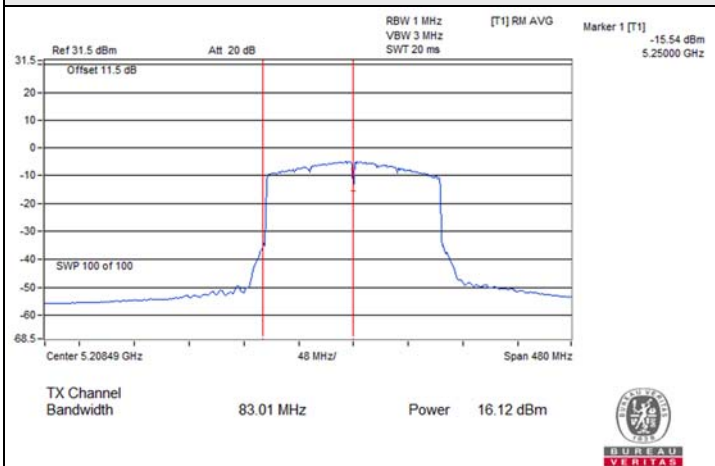


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-1)

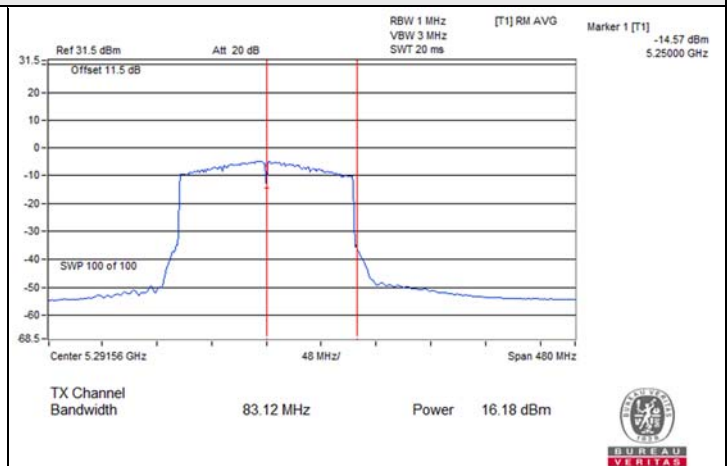


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-2A)

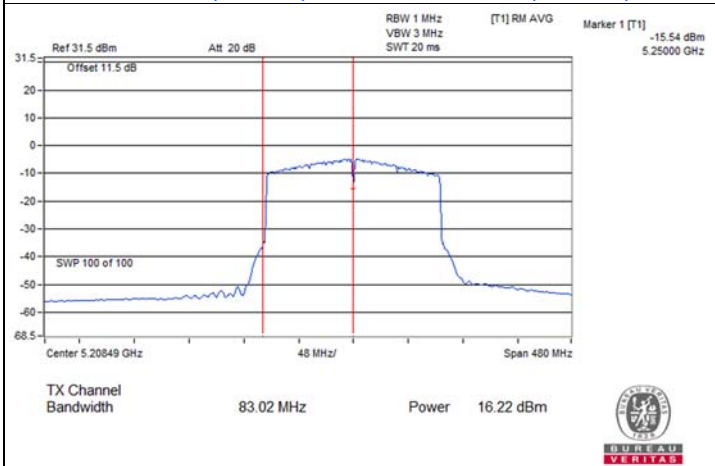
Spectrum Plot for channel straddling



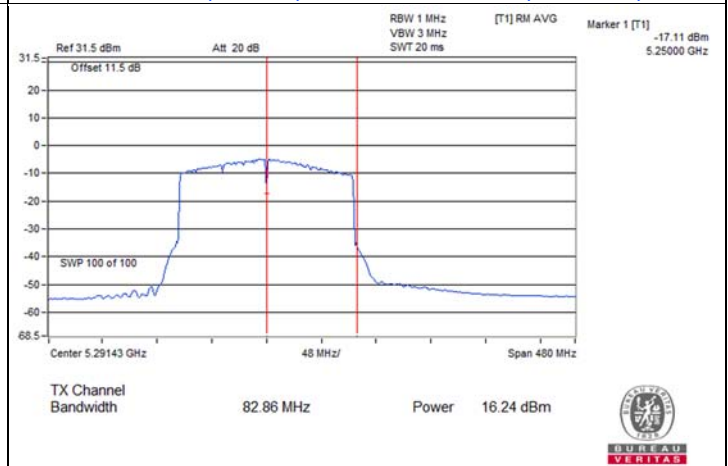
802.11ax (HE160) / Chain 2 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 2 : CH 50 (U-NII-2A)



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-2A)

NSS2

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.74	20.63	20.42	20.66	460.755	26.63	30	Pass
40	5200	20.62	20.25	20.10	20.44	434.262	26.38	30	Pass
48	5240	20.74	20.35	20.22	20.57	446.191	26.50	30	Pass
52	5260	16.25	15.90	15.71	16.11	159.145	22.02	24	Pass
60	5300	16.25	15.78	15.68	16.07	157.454	21.97	24	Pass
64	5320	16.13	15.82	15.73	16.10	157.364	21.97	24	Pass
100	5500	15.68	15.37	15.19	15.57	140.513	21.48	24	Pass
116	5580	15.64	15.46	15.23	15.61	141.534	21.51	24	Pass
140	5700	14.57	13.97	13.68	14.22	103.346	20.14	24	Pass
*144 (U-NII-2C)	5720	14.46	14.14	13.97	14.35	106.04	20.25	22.99	Pass
*144 (U-NII-3)	5720	7.92	8.31	7.93	7.50	24.803	13.95	30	Pass
149	5745	24.12	23.75	23.68	23.95	977.023	29.90	30	Pass
157	5785	24.21	23.81	23.72	23.98	989.609	29.95	30	Pass
165	5825	24.16	23.79	23.70	23.91	980.407	29.91	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.25	19.14	19.03	19.18	328.952	25.17	30	Pass
46	5230	24.04	23.88	23.64	24.00	980.251	29.91	30	Pass
54	5270	17.98	17.86	17.67	17.92	244.323	23.88	24	Pass
62	5310	13.49	13.05	12.84	13.30	83.13	19.20	24	Pass
102	5510	14.80	14.17	13.89	14.25	107.419	20.31	24	Pass
110	5550	18.08	17.70	17.62	17.89	242.48	23.85	24	Pass
134	5670	18.12	17.84	17.71	17.95	247.071	23.93	24	Pass
*142 (U-NII-2C)	5710	17.35	17.03	17.22	16.95	207.059	23.16	24	Pass
*142 (U-NII-3)	5710	4.48	5.18	4.88	5.66	12.859	11.09	30	Pass
151	5755	24.11	23.85	23.74	24.02	989.233	29.95	30	Pass
159	5795	24.14	23.86	23.74	24.03	992.16	29.97	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	18.77	18.58	18.46	18.65	290.874	24.64	30	Pass
58	5290	17.68	17.55	17.32	17.58	226.73	23.56	24	Pass
106	5530	17.45	16.89	16.85	17.33	206.948	23.16	24	Pass
122	5610	18.11	17.89	17.75	18.02	249.185	23.97	24	Pass
*138 (U-NII-2C)	5690	17.14	17.03	17.05	17.06	203.742	23.09	24	Pass
*138 (U-NII-3)	5690	1.50	0.75	1.97	1.72	5.661	7.53	30	Pass
155	5775	23.66	23.54	23.51	23.56	909.592	29.59	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
- For U-NII-1, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	16.63	16.04	16.12	16.22	169.01	22.28	30	Pass
*50 (U-NII-2A)	5250	16.27	16.09	16.18	16.24	166.577	22.22	24	Pass
114	5570	17.89	17.54	17.44	17.56	230.751	23.63	24	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 = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$
3. For U-NII-1, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.01 dBi < 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Alan Wu
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	8.65	8.19	8.22	8.39	14.39	14.98	Pass
40	5200	8.74	8.63	8.51	8.62	14.65	14.98	Pass
48	5240	8.69	8.59	8.20	8.73	14.58	14.98	Pass
52	5260	2.57	2.55	2.46	2.70	8.59	8.98	Pass
60	5300	2.45	2.52	2.41	2.48	8.49	8.98	Pass
64	5320	2.83	2.33	2.43	2.62	8.58	8.98	Pass
100	5500	2.61	2.45	2.38	2.38	8.48	8.98	Pass
116	5580	2.56	2.37	2.28	2.29	8.40	8.98	Pass
140	5700	2.40	2.43	2.44	2.32	8.42	8.98	Pass
144 (U-NII-2C)	5720	2.45	2.40	2.64	2.46	8.51	8.98	Pass

Notes:

- 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.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-1, the directional gain is 8.02 dBi > 6dBi, so the power density limit shall be reduced to $17-(8.02-6) = 14.98$ dBm/MHz.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	8.30	8.56	8.61	8.80	14.59	14.98	Pass
40	5200	8.72	8.67	8.29	8.59	14.59	14.98	Pass
48	5240	8.74	8.49	8.64	8.64	14.65	14.98	Pass
52	5260	2.34	2.55	2.52	2.53	8.51	8.98	Pass
60	5300	2.71	2.56	2.40	2.68	8.61	8.98	Pass
64	5320	2.78	2.39	2.35	2.45	8.52	8.98	Pass
100	5500	2.37	2.49	2.58	2.49	8.50	8.98	Pass
116	5580	2.81	2.49	2.51	2.49	8.60	8.98	Pass
140	5700	1.52	1.30	1.45	1.17	7.38	8.98	Pass
144 (U-NII-2C)	5720	2.65	2.47	2.03	2.65	8.48	8.98	Pass

Notes:

- 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.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-1, the directional gain is 8.02 dBi > 6dBi, so the power density limit shall be reduced to $17-(8.02-6) = 14.98$ dBm/MHz.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	3.53	3.98	3.58	3.69	9.72	14.98	Pass
46	5230	8.53	8.80	8.56	8.49	14.62	14.98	Pass
54	5270	2.49	2.52	2.28	2.43	8.45	8.98	Pass
62	5310	-2.37	-2.01	-2.26	-2.07	3.85	8.98	Pass
102	5510	-0.59	-0.49	-0.90	-0.63	5.37	8.98	Pass
110	5550	2.34	2.79	2.45	2.70	8.59	8.98	Pass
134	5670	2.33	1.67	2.31	2.31	8.18	8.98	Pass
142 (U-NII-2C)	5710	2.82	2.39	2.47	2.85	8.66	8.98	Pass

Notes:

- 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.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-1, the directional gain is 8.02 dBi > 6dBi, so the power density limit shall be reduced to $17-(8.02-6) = 14.98$ dBm/MHz.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	0.36	0.27	-0.04	0.05	6.18	14.98	Pass
58	5290	-1.04	-1.04	-1.44	-1.34	4.81	8.98	Pass
106	5530	-1.01	-1.16	-1.77	-1.83	4.59	8.98	Pass
122	5610	-0.42	-0.63	-0.15	-0.02	5.72	8.98	Pass
138 (U-NII-2C)	5690	0.08	-0.99	-0.18	-0.15	5.73	8.98	Pass

Notes:

- 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.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-1, the directional gain is 8.02 dBi > 6dBi, so the power density limit shall be reduced to $17-(8.02-6) = 14.98$ dBm/MHz.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-4.53	-4.55	-4.92	-4.89	1.30	14.98	Pass
50 (U-NII-2A)	5250	-4.62	-4.56	-4.89	-4.90	1.28	8.98	Pass
114	5570	-3.75	-3.67	-4.32	-4.35	2.01	8.98	Pass

Notes:

- 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.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-1, the directional gain is 8.02 dBi > 6dBi, so the power density limit shall be reduced to $17-(8.02-6) = 14.98$ dBm/MHz.
- For U-NII-2A, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.
- For U-NII-2C, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $11-(8.02-6) = 8.98$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-7.80	-7.39	-7.37	-8.03	-1.62	0.60	27.98	Pass
149	5745	3.22	3.57	3.12	2.98	9.25	11.47	27.98	Pass
157	5785	3.20	3.94	3.22	3.21	9.42	11.64	27.98	Pass
165	5825	2.79	3.36	3.08	3.23	9.14	11.36	27.98	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
- For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $30-(8.02-6) = 27.98$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-8.72	-8.50	-8.39	-7.89	-2.34	-0.12	27.98	Pass
149	5745	2.01	2.41	2.01	2.50	8.26	10.48	27.98	Pass
157	5785	2.09	2.56	2.12	2.63	8.38	10.60	27.98	Pass
165	5825	2.12	2.46	1.91	2.16	8.19	10.41	27.98	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
3. For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (8.02 - 6) = 27.98$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-11.34	-11.09	-10.99	-10.53	-4.96	-2.74	27.98	Pass
151	5755	-0.03	0.00	-0.41	-0.14	5.88	8.10	27.98	Pass
159	5795	-0.22	0.03	-0.39	-0.02	5.87	8.09	27.98	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
3. For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (8.02 - 6) = 27.98$ dBm/500kHz.

802.11ax (HE80)

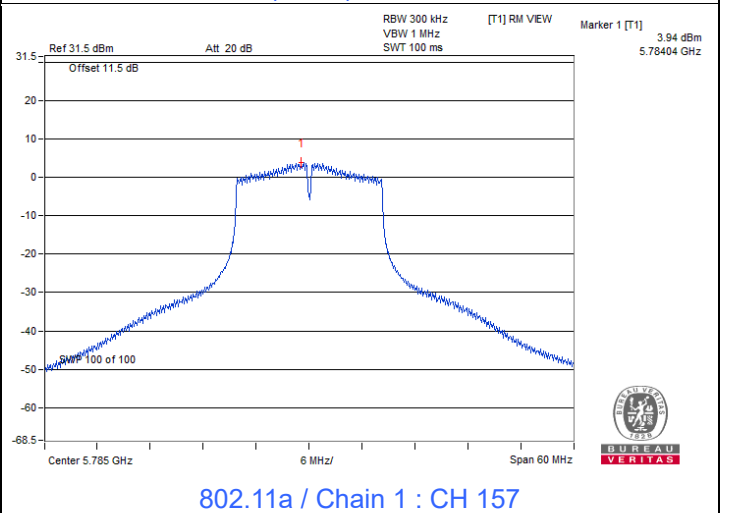
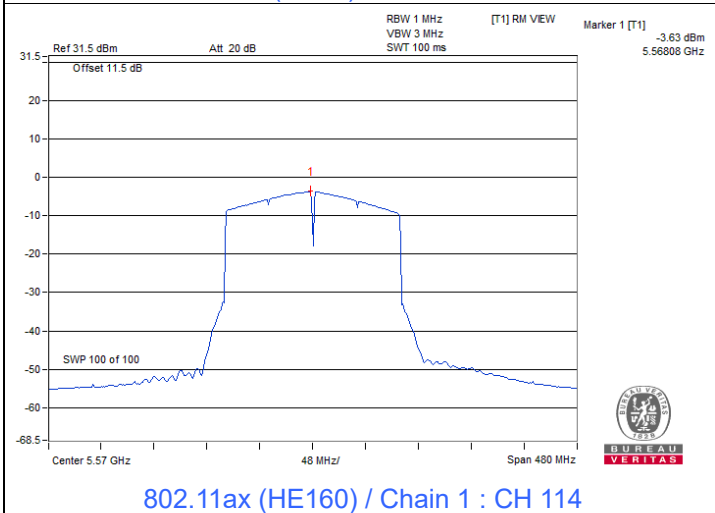
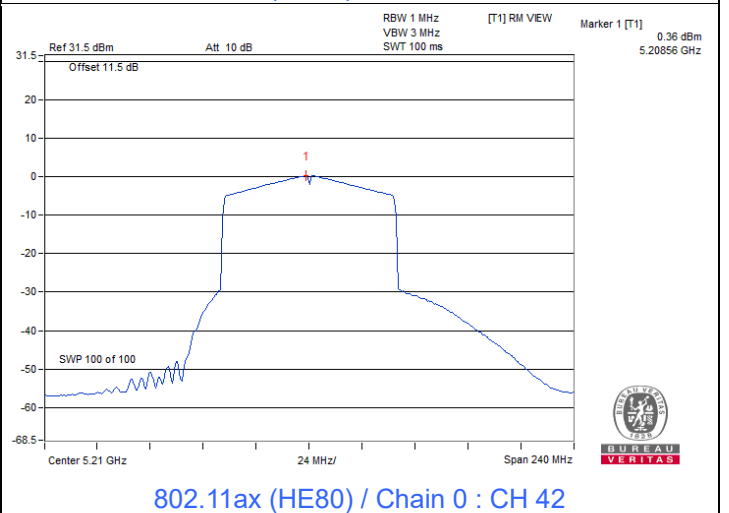
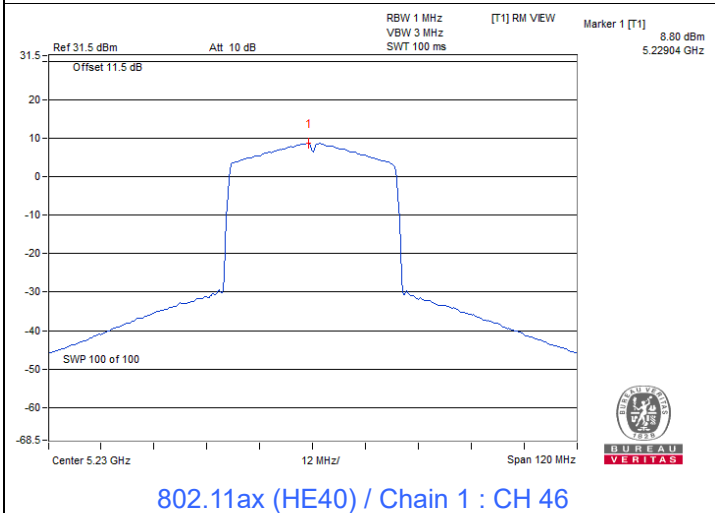
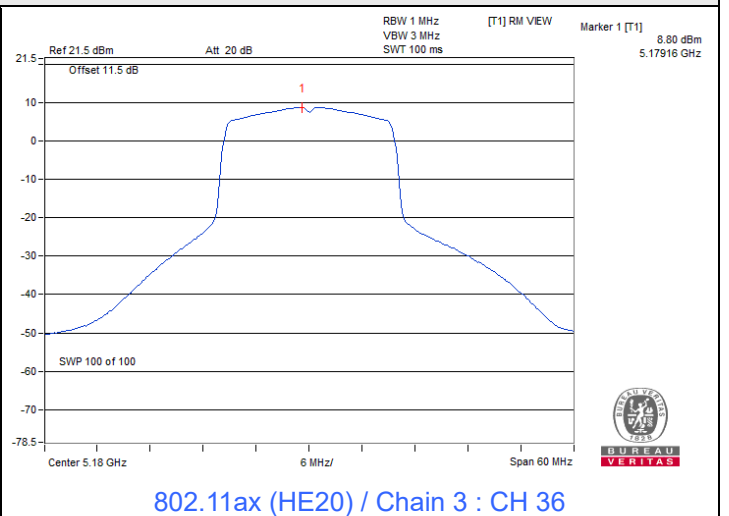
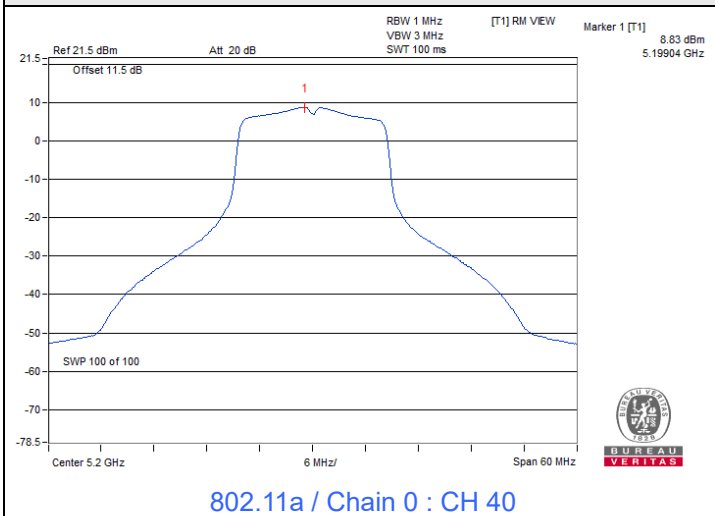
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-13.86	-14.73	-14.21	-13.94	-8.15	-5.93	27.98	Pass
155	5775	-4.02	-3.83	-3.87	-4.01	2.09	4.31	27.98	Pass

Notes:

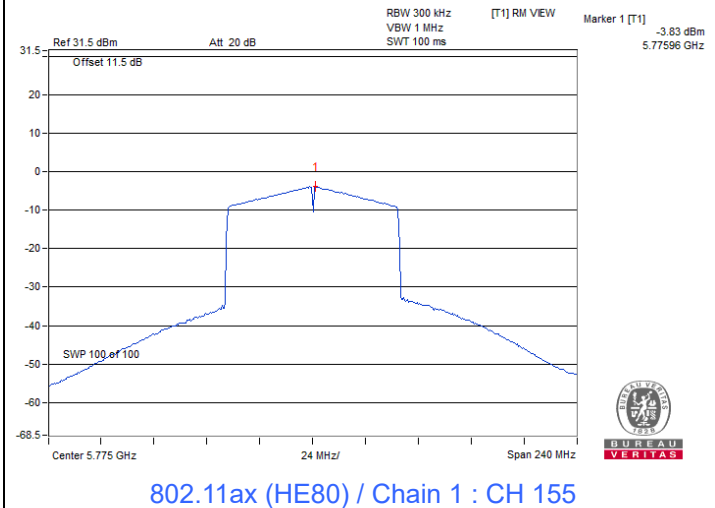
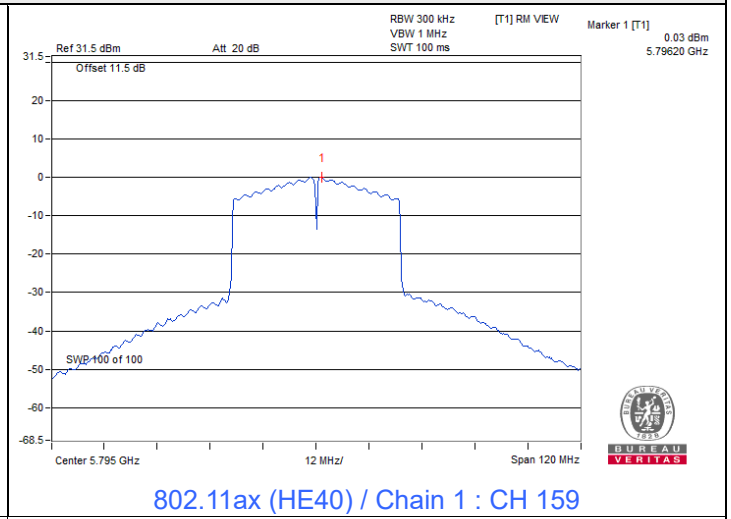
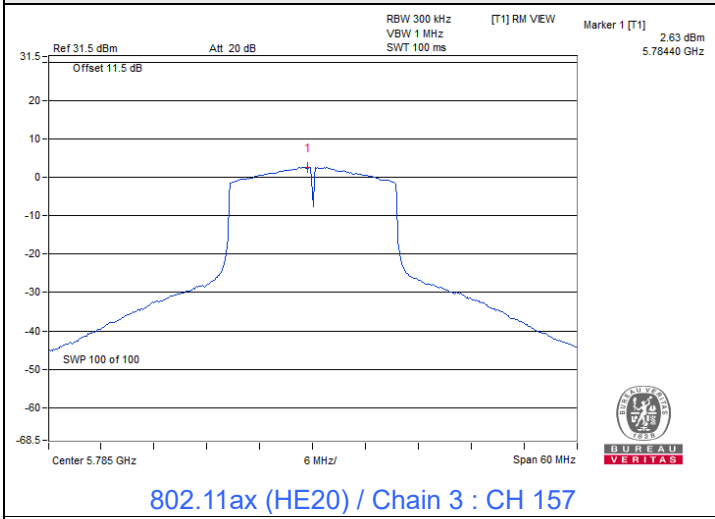
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $G_{ANT} + 10 \log(N_{ANT})$
3. For U-NII-3, the directional gain is 8.02 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (8.02 - 6) = 27.98$ dBm/500kHz.



Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Alan Wu
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.15	2.92	3.16	2.78	0.5	Pass
149	5745	15.70	14.50	15.75	16.36	0.5	Pass
157	5785	15.95	16.51	16.33	16.37	0.5	Pass
165	5825	15.72	16.60	16.32	16.33	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.42	4.45	4.31	4.26	0.5	Pass
149	5745	18.63	17.61	18.79	18.64	0.5	Pass
157	5785	18.88	16.90	18.76	18.89	0.5	Pass
165	5825	18.80	18.54	18.66	18.64	0.5	Pass

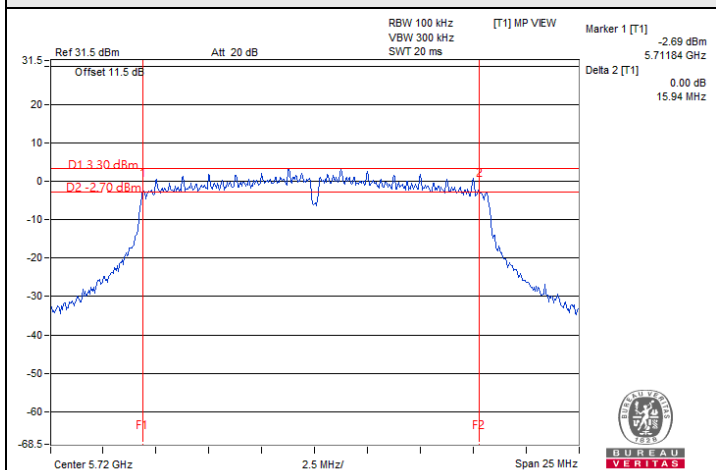
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	2.60	2.62	3.02	2.65	0.5	Pass
151	5755	33.95	35.08	34.44	35.18	0.5	Pass
159	5795	33.90	36.13	35.84	35.20	0.5	Pass

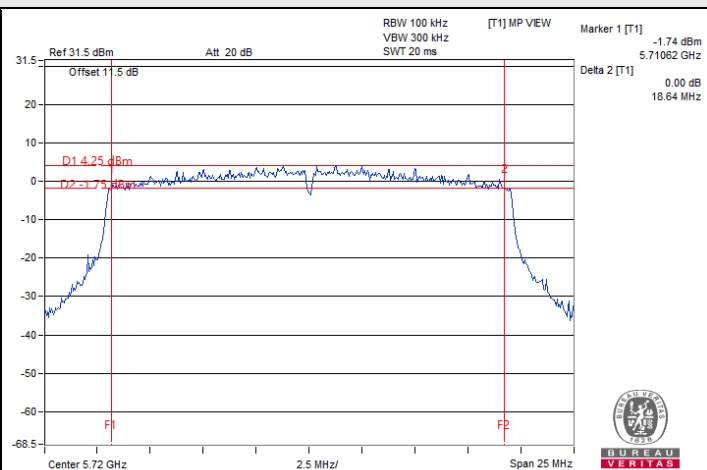
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	2.41	2.66	1.42	2.70	0.5	Pass
155	5775	75.28	75.36	75.32	75.34	0.5	Pass

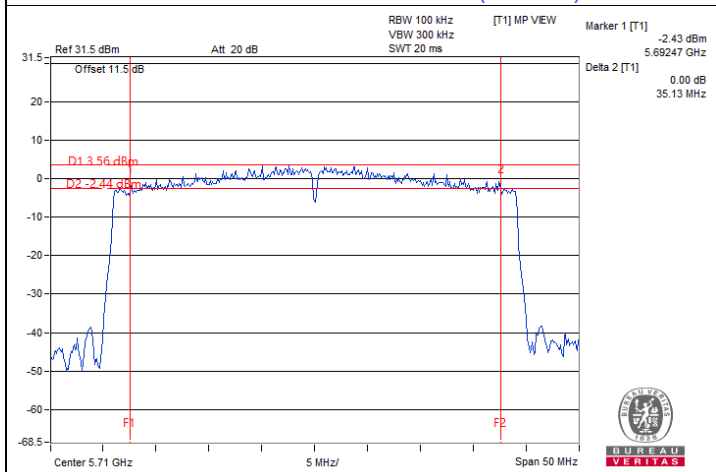
Spectrum Plot of Minimum Value



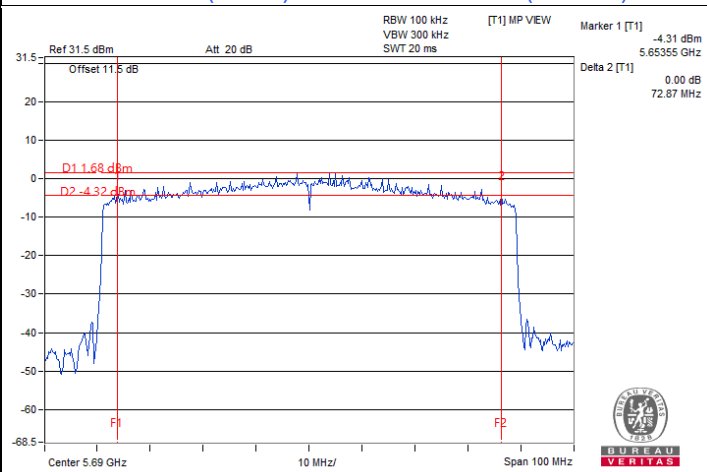
802.11a / Chain 3 : CH 144 (U-NII-3)



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



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



802.11ax (HE80) / Chain 2 : CH 138 (U-NII-3)

Notes:

1. 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, 60% RH	Tested By:	Alan Wu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.68	16.56	16.44	16.56
40	5200	16.68	16.56	16.56	16.56
48	5240	16.68	16.68	16.68	16.44
52	5260	16.44	16.44	16.44	16.44
60	5300	16.68	16.68	16.56	16.56
64	5320	16.68	16.68	16.44	16.56
100	5500	16.56	16.54	16.56	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.68	16.54	16.68	16.56
144 (U-NII-2C)	5720	13.40	13.28	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16	3.16	3.16
149	5745	16.68	16.64	16.56	16.68
157	5785	16.92	16.74	16.92	16.68
165	5825	16.68	16.64	16.68	16.68

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.96	18.96	18.96	18.96
40	5200	18.84	19.08	18.84	19.08
48	5240	18.84	18.84	18.84	18.84
52	5260	18.84	18.84	18.84	18.96
60	5300	18.96	18.84	18.96	19.08
64	5320	18.96	18.84	18.96	18.96
100	5500	18.84	18.96	18.96	18.96
116	5580	18.84	18.84	18.84	18.84
140	5700	19.08	18.84	18.84	18.96
144 (U-NII-2C)	5720	14.48	14.48	14.48	14.48
144 (U-NII-3)	5720	4.36	4.48	4.36	4.36
149	5745	18.96	18.96	18.96	18.96
157	5785	18.96	18.96	19.08	19.08
165	5825	19.08	19.08	19.08	18.96

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.68	37.68	37.44	37.68
46	5230	37.68	37.68	37.68	37.68
54	5270	37.68	37.68	37.68	37.68
62	5310	37.68	37.68	37.44	37.68
102	5510	37.68	37.68	37.44	37.68
110	5550	37.44	37.44	37.68	37.68
134	5670	37.68	37.44	37.68	37.68
142 (U-NII-2C)	5710	33.96	33.72	33.96	33.72
142 (U-NII-3)	5710	3.72	3.48	3.72	3.72
151	5755	37.68	37.68	37.68	37.92
159	5795	37.68	37.68	37.68	37.68

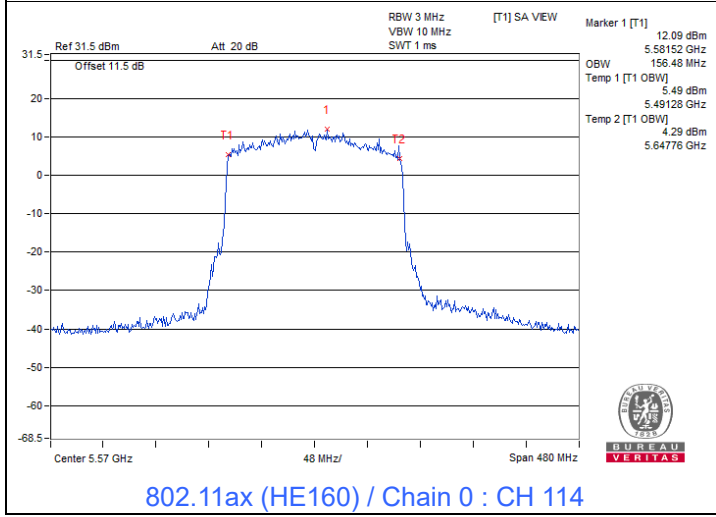
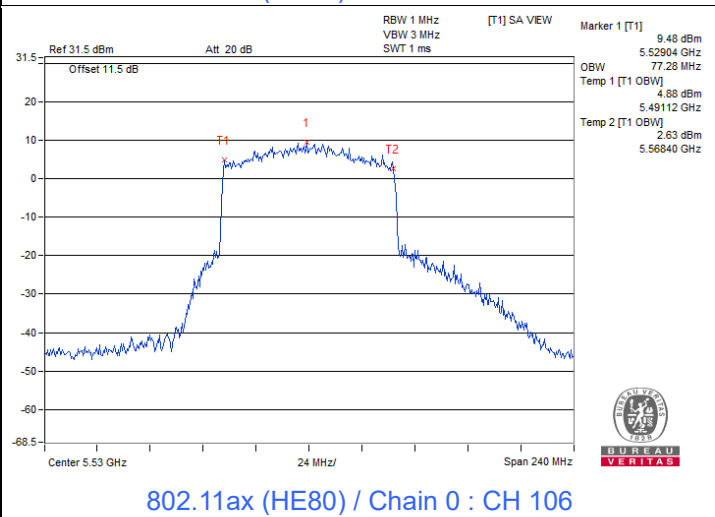
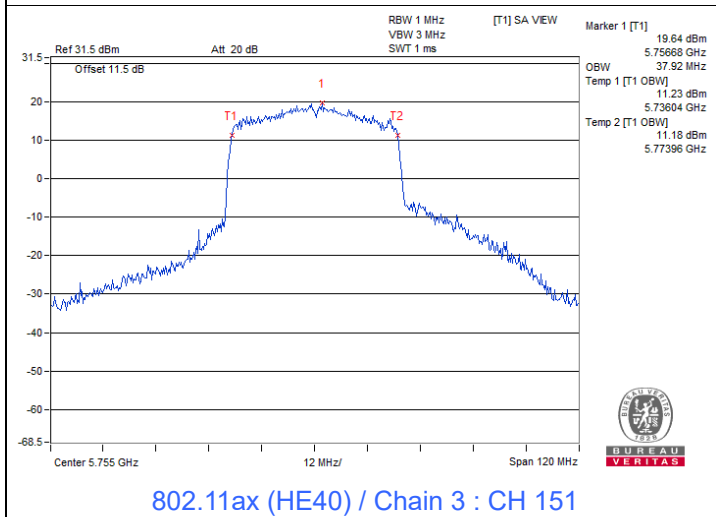
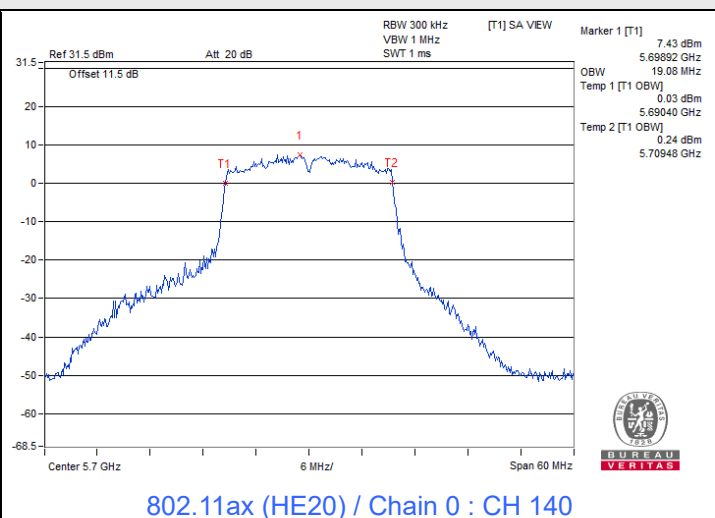
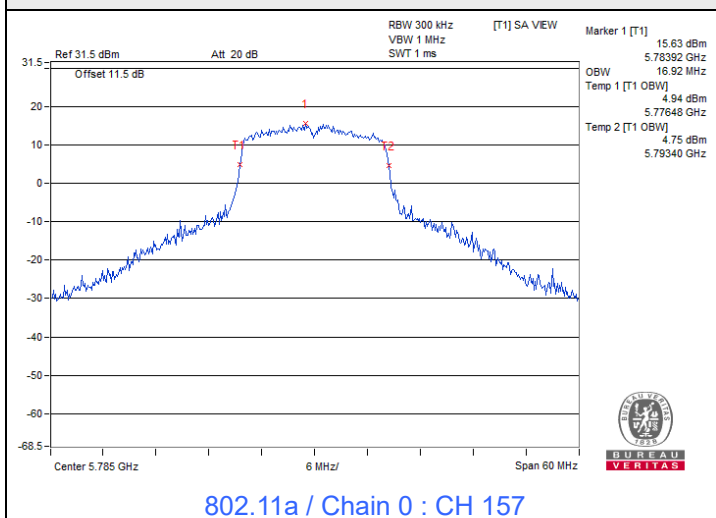
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	76.80	76.80	76.80
58	5290	76.32	76.80	76.80	76.80
106	5530	77.28	76.32	76.80	76.80
122	5610	76.32	76.32	76.80	76.32
138 (U-NII-2C)	5690	73.40	73.40	73.88	73.40
138 (U-NII-3)	5690	2.92	2.92	2.92	2.92
155	5775	76.80	76.80	76.80	77.28

802.11ax (HE160)

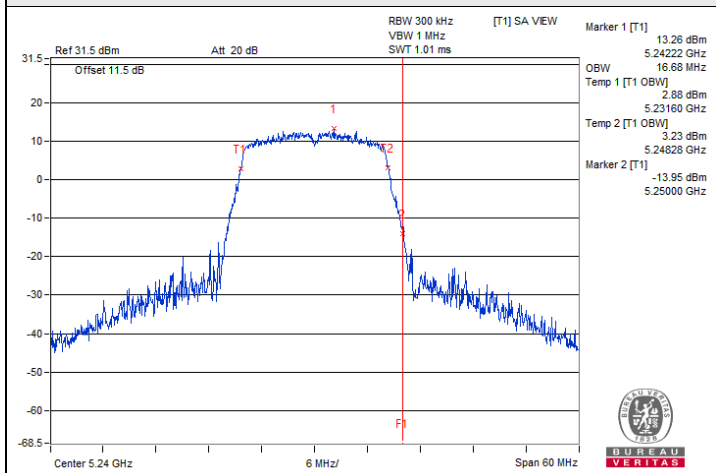
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	78.72	78.72	78.72	77.76
50 (U-NII-2A)	5250	77.76	76.80	76.80	76.80
114	5570	156.48	154.56	154.56	156.48

Spectrum Plot of Maximum Value

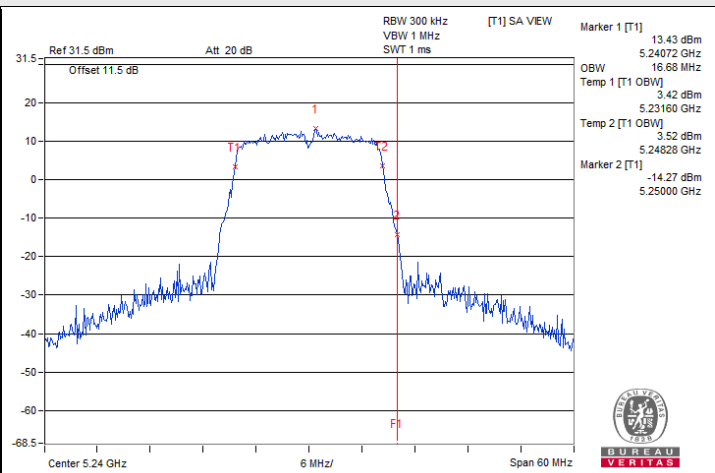




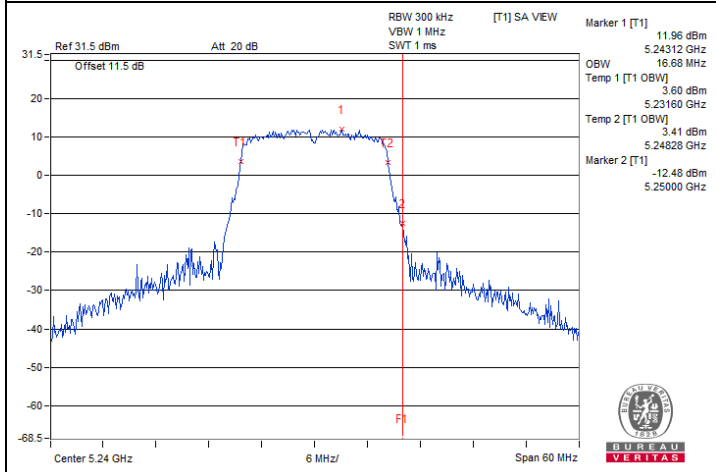
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



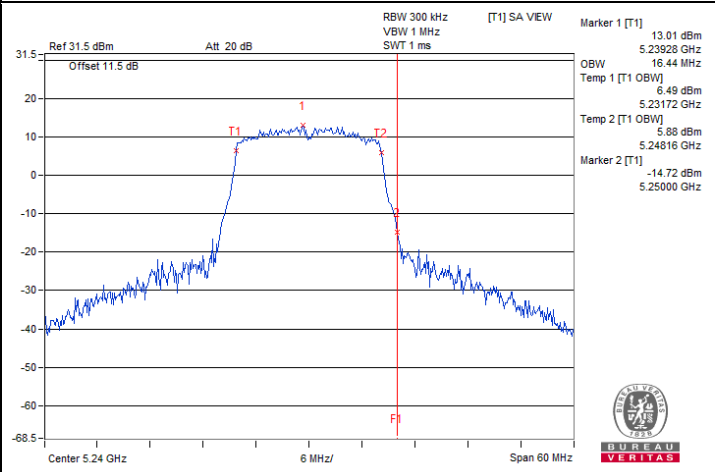
802.11a / Chain 0 : CH 48



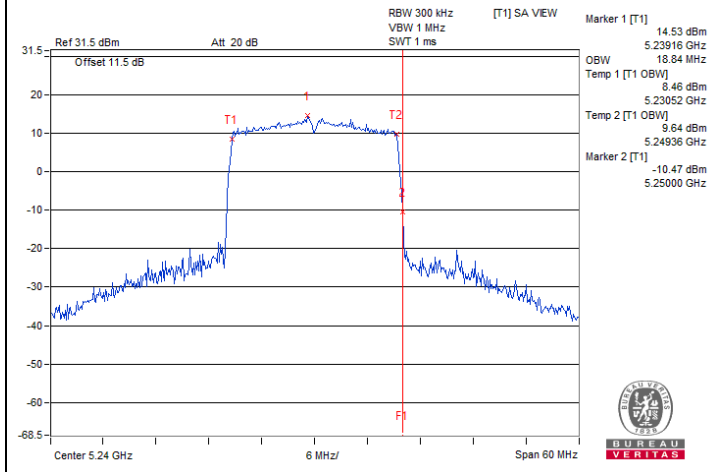
802.11a / Chain 1 : CH 48



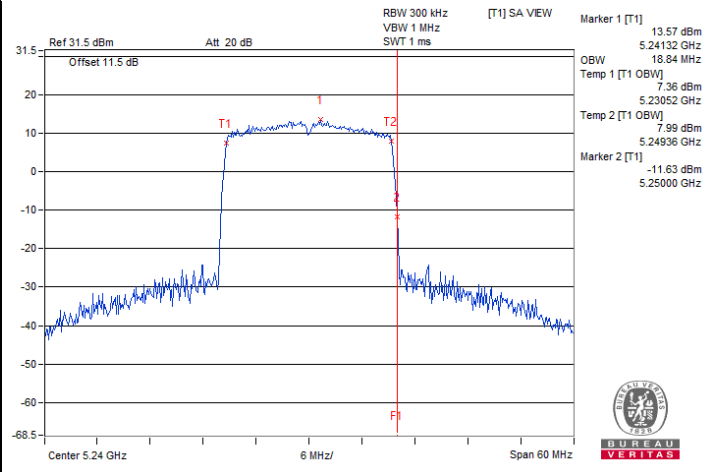
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

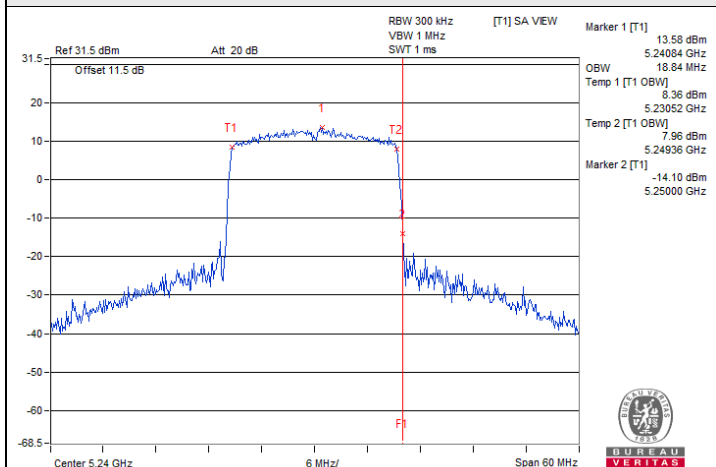
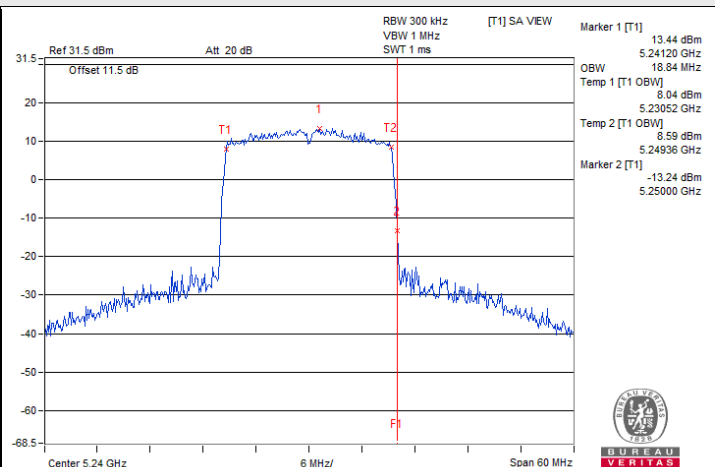
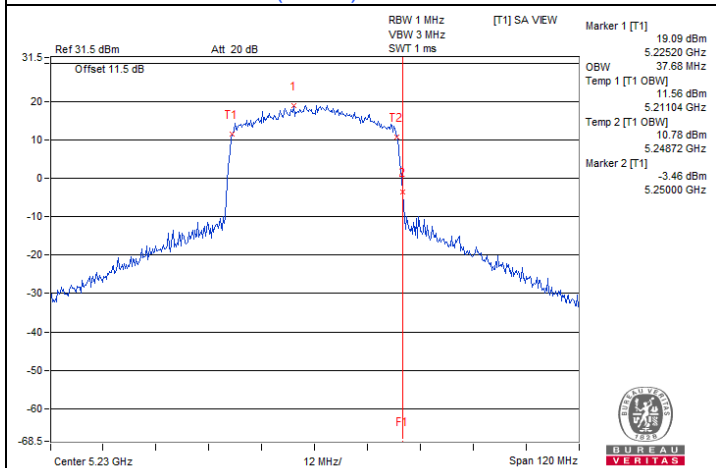
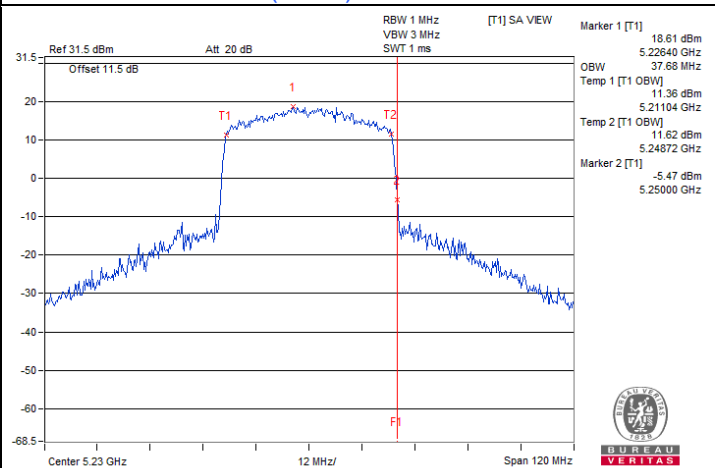
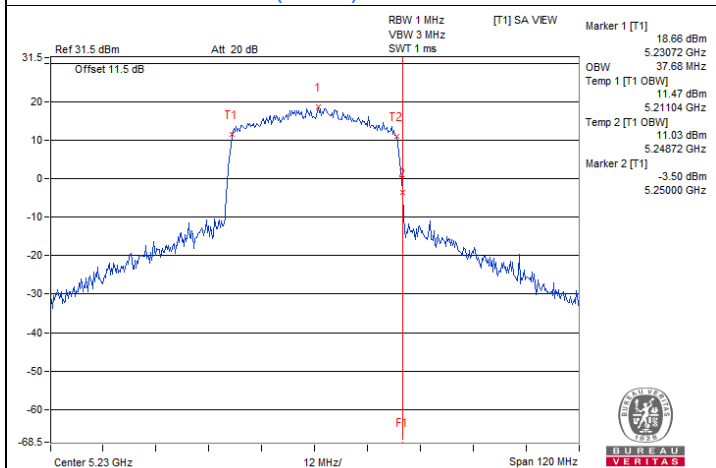
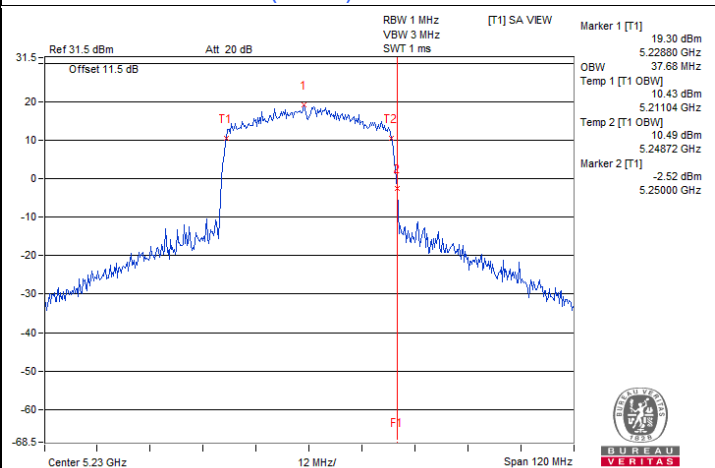


802.11ax (HE20) / Chain 0 : CH 48



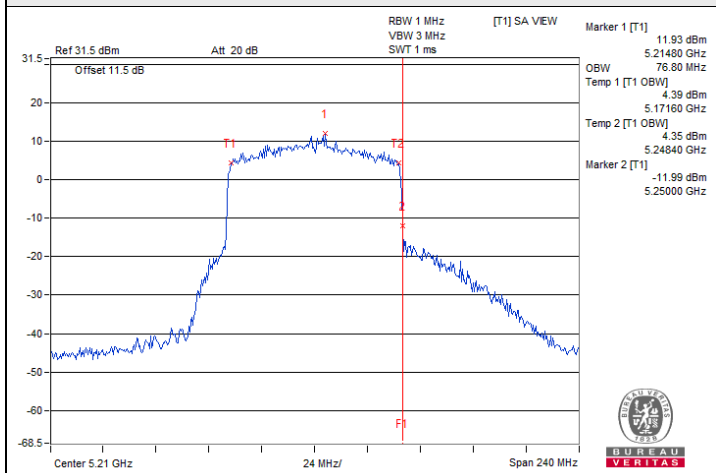
802.11ax (HE20) / Chain 1 : CH 48

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

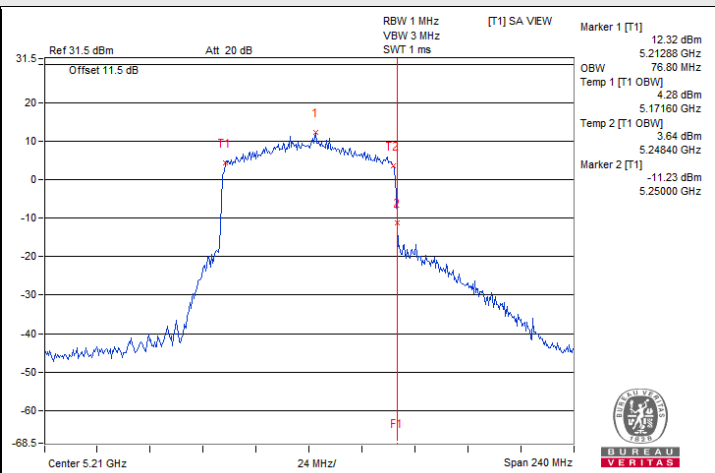
**802.11ax (HE20) / Chain 2 : CH 48****802.11ax (HE20) / Chain 3 : CH 48****802.11ax (HE40) / Chain 0 : CH 46****802.11ax (HE40) / Chain 1 : CH 46****802.11ax (HE40) / Chain 2 : CH 46****802.11ax (HE40) / Chain 3 : CH 46**



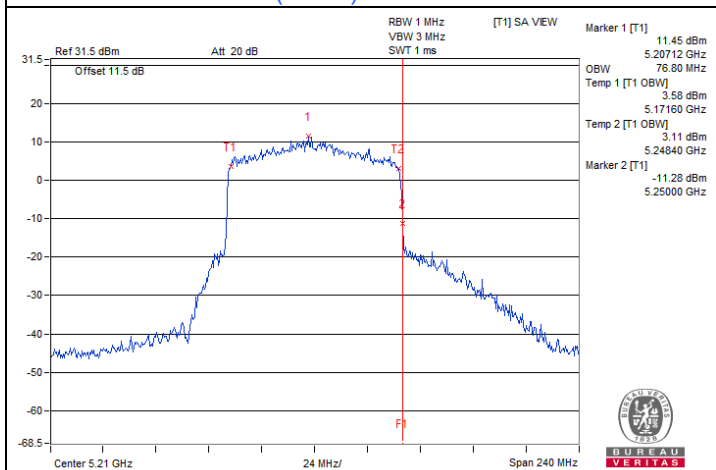
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



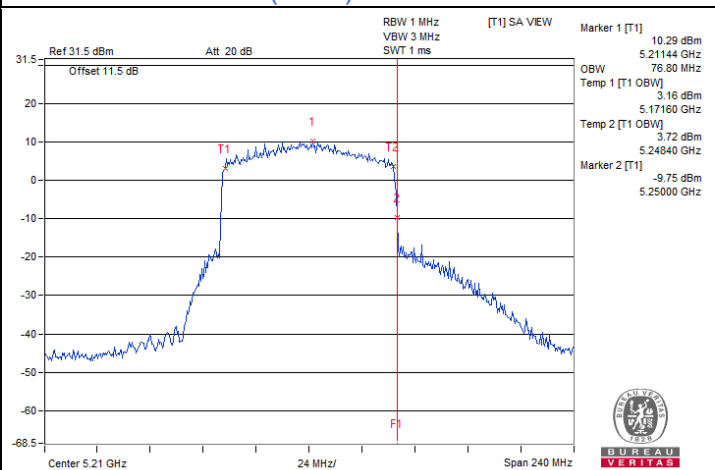
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

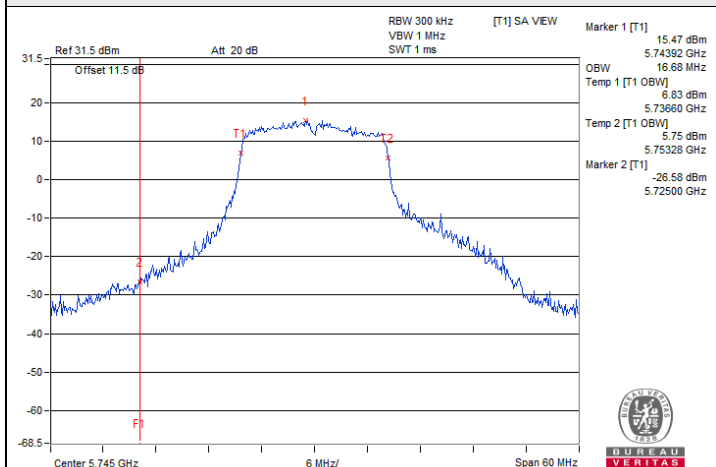
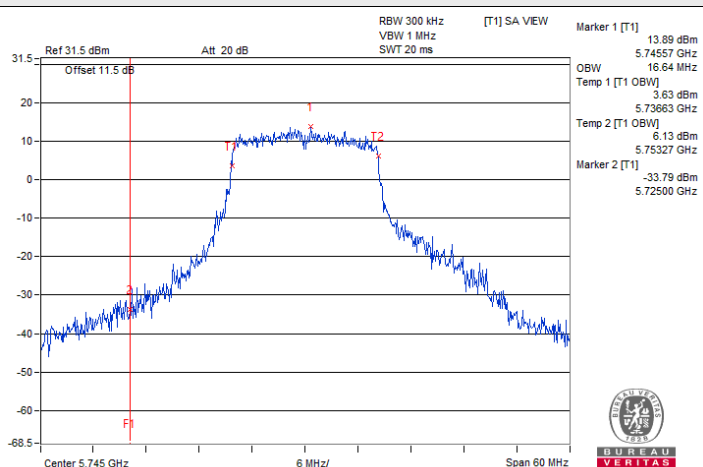
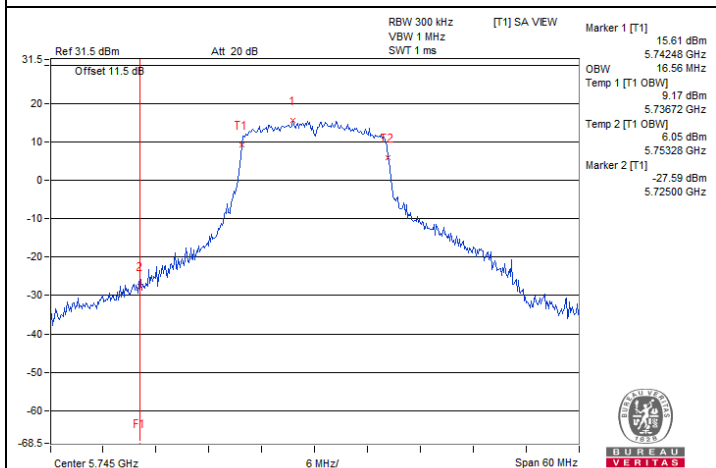
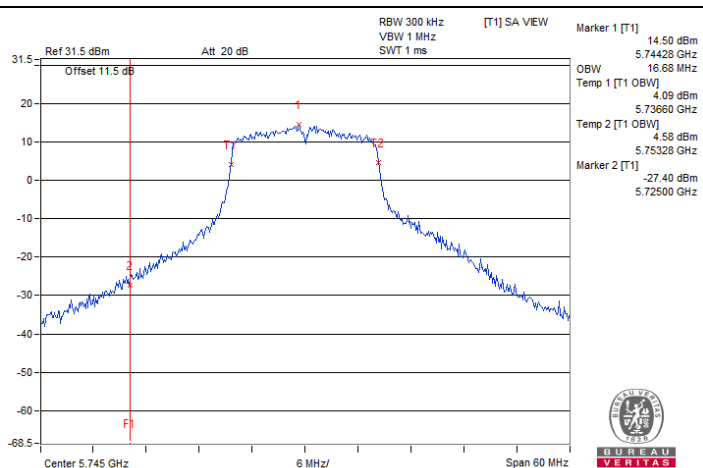
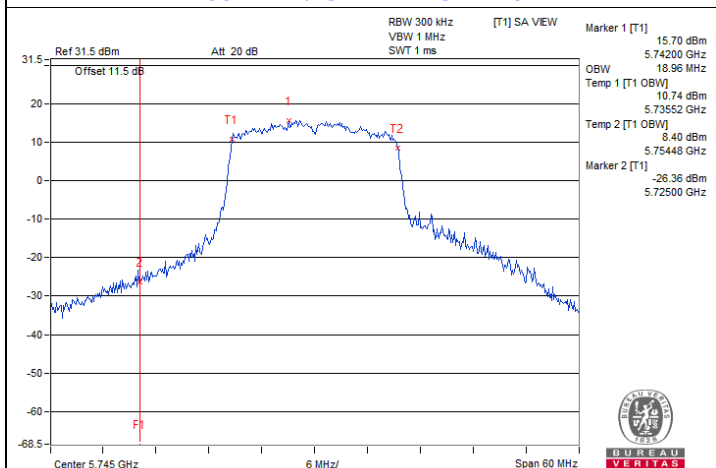
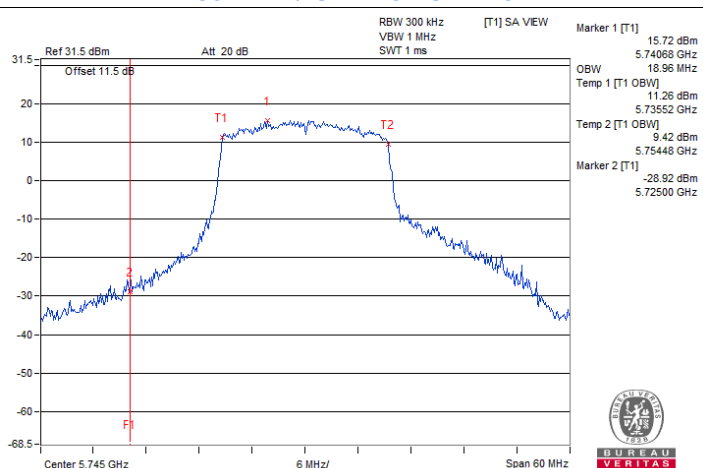


802.11ax (HE80) / Chain 2 : CH 42



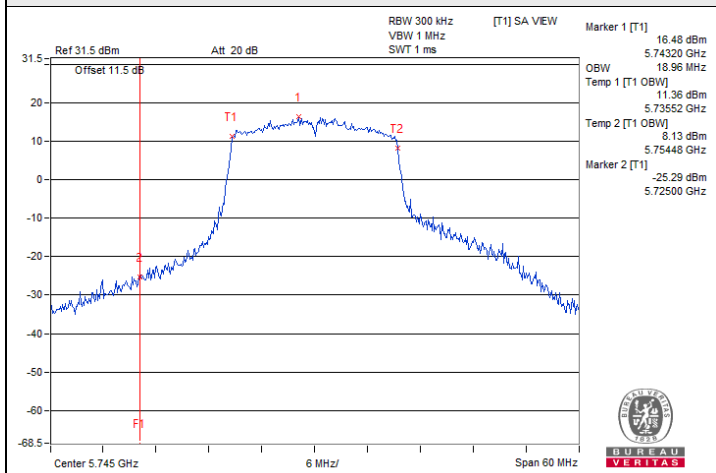
802.11ax (HE80) / Chain 3 : CH 42

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

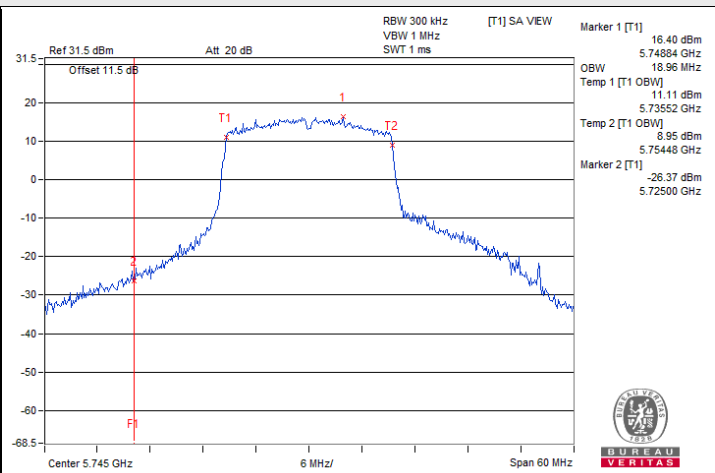
**802.11a / Chain 0 : CH 149****802.11a / Chain 1 : CH 149****802.11a / Chain 2 : CH 149****802.11a / Chain 3 : CH 149****802.11ax (HE20) / Chain 0 : CH 149****802.11ax (HE20) / Chain 1 : CH 149**



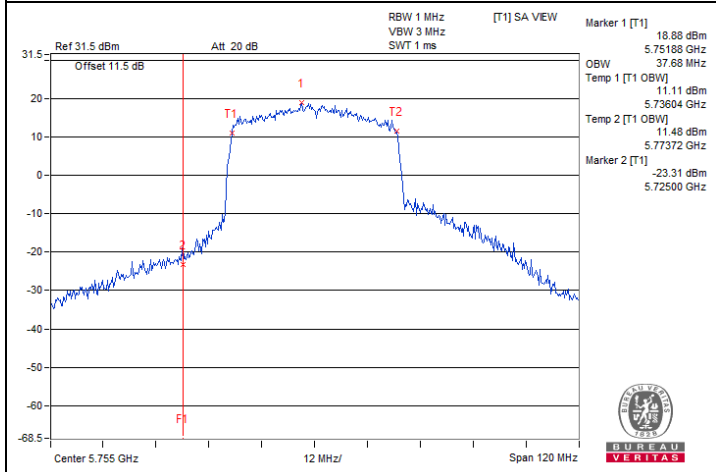
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



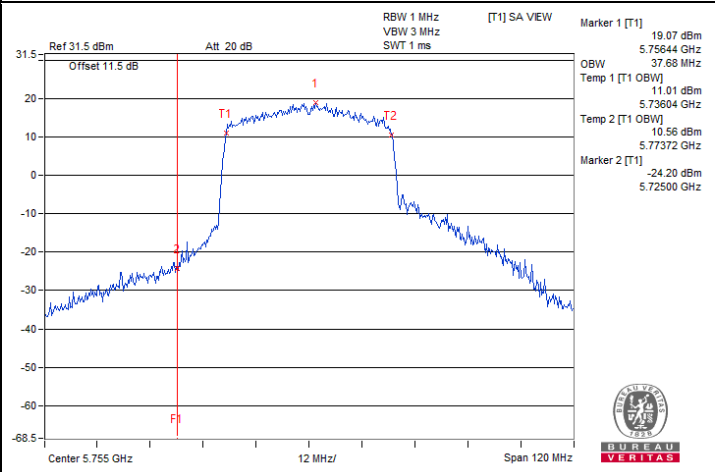
802.11ax (HE20) / Chain 2 : CH 149



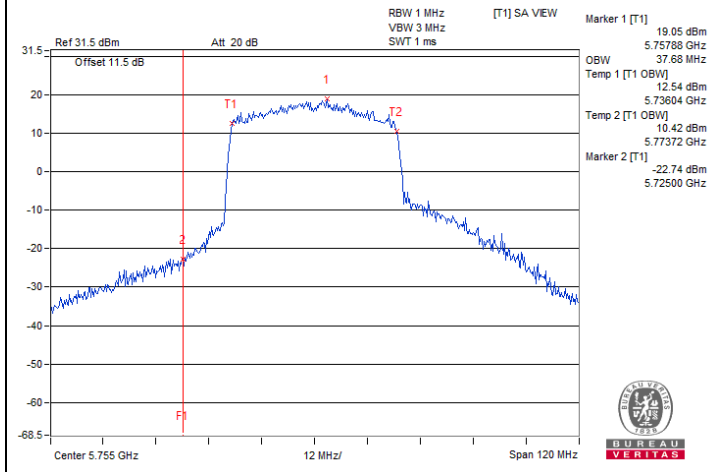
802.11ax (HE20) / Chain 3 : CH 149



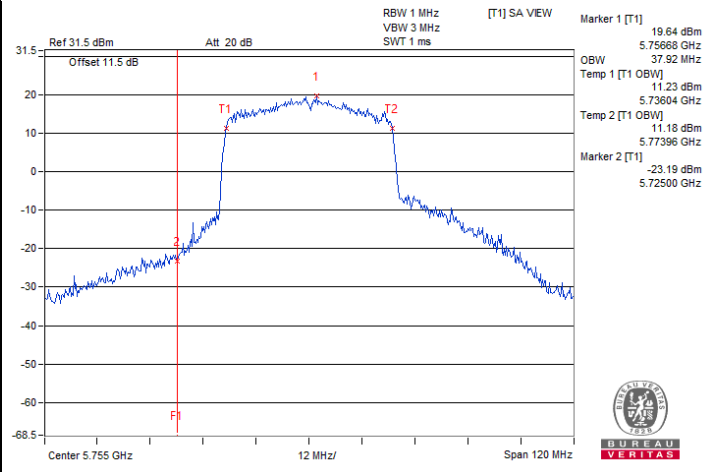
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

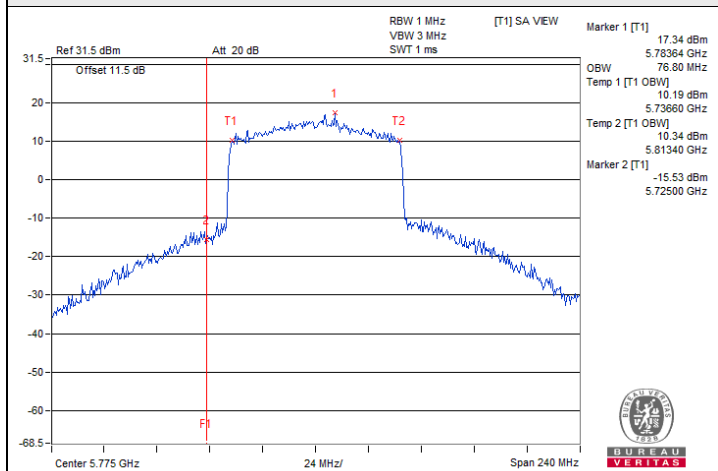


802.11ax (HE40) / Chain 2 : CH 151

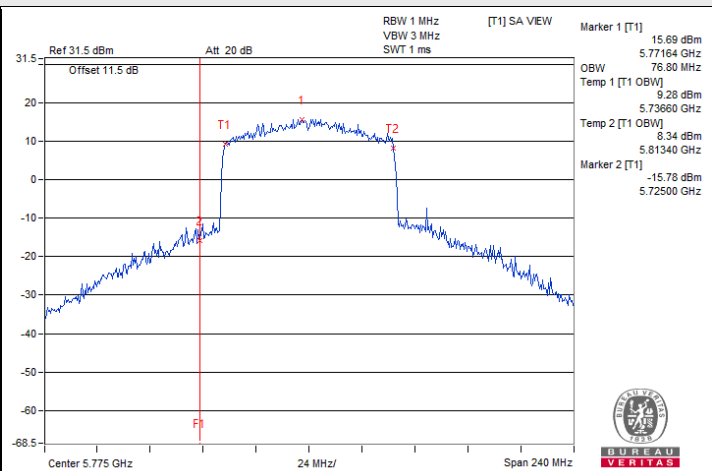


802.11ax (HE40) / Chain 3 : CH 151

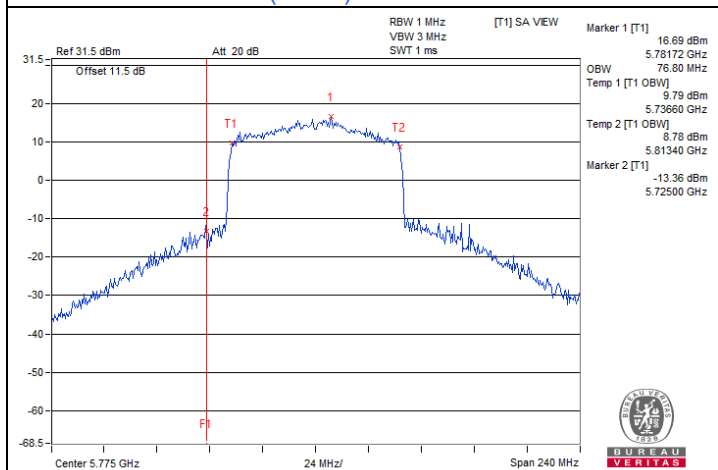
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



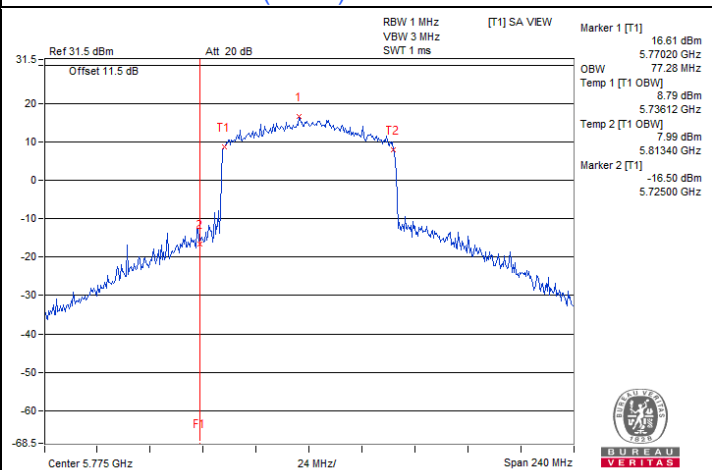
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Alan Wu
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	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
40	120	5179.9925	Pass	5179.9914	Pass	5179.9934	Pass	5179.9925	Pass
30	120	5179.9789	Pass	5179.98	Pass	5179.9783	Pass	5179.9782	Pass
20	120	5180.0265	Pass	5180.024	Pass	5180.0262	Pass	5180.0275	Pass
10	120	5179.986	Pass	5179.9825	Pass	5179.9863	Pass	5179.9867	Pass
0	120	5179.9977	Pass	5179.9975	Pass	5179.9968	Pass	5179.9987	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	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	5180.0256	Pass	5180.0226	Pass	5180.0251	Pass	5180.0257	Pass
	120	5180.0265	Pass	5180.024	Pass	5180.0262	Pass	5180.0275	Pass
	102	5180.0342	Pass	5180.0293	Pass	5180.0308	Pass	5180.0329	Pass

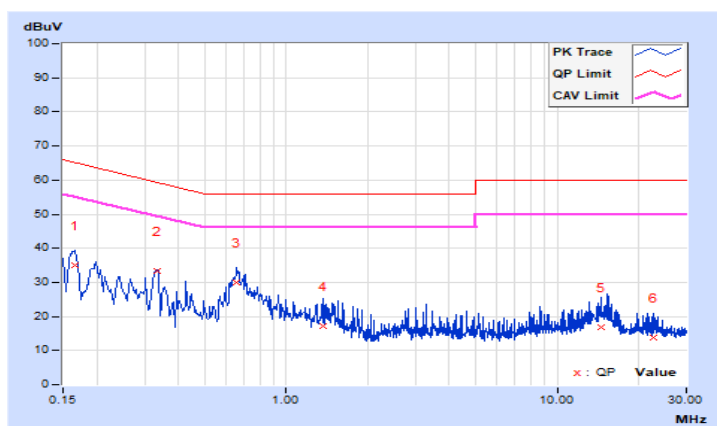
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 69.7% RH
Tested By	Thomas Cheng		

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	0.16579	9.65	25.39	11.99	35.04	21.64	65.17	55.17	-30.13	-33.53
2	0.33238	9.68	23.57	16.09	33.25	25.77	59.39	49.39	-26.14	-23.62
3	0.65800	9.70	20.43	15.40	30.13	25.10	56.00	46.00	-25.87	-20.90
4	1.36200	9.72	7.57	1.62	17.29	11.34	56.00	46.00	-38.71	-34.66
5	14.51800	9.86	6.98	1.78	16.84	11.64	60.00	50.00	-43.16	-38.36
6	22.69400	9.89	3.78	1.35	13.67	11.24	60.00	50.00	-46.33	-38.76

Remarks:

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

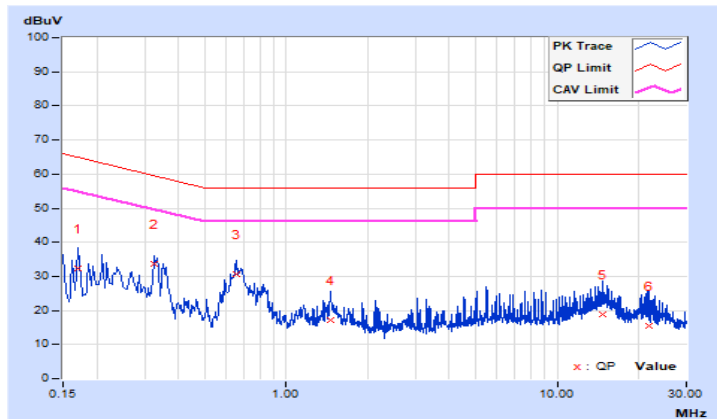


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 69.7% RH
Tested By	Thomas Cheng		

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	0.17000	9.65	22.54	10.34	32.19	19.99	64.96	54.96	-32.77	-34.97
2	0.32600	9.68	23.87	18.56	33.55	28.24	59.55	49.55	-26.00	-21.31
3	0.65800	9.70	21.06	15.43	30.76	25.13	56.00	46.00	-25.24	-20.87
4	1.45800	9.72	7.42	1.97	17.14	11.69	56.00	46.00	-38.86	-34.31
5	14.65000	9.88	8.98	3.93	18.86	13.81	60.00	50.00	-41.14	-36.19
6	21.70600	9.91	5.50	1.41	15.41	11.32	60.00	50.00	-44.59	-38.68

Remarks:

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



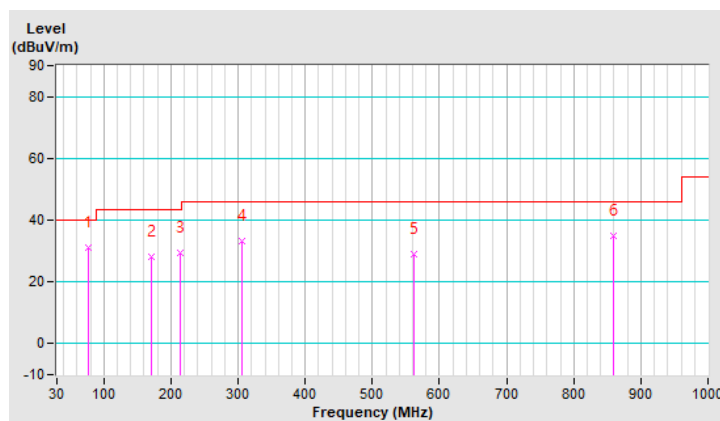
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 68% RH
Tested By	Thomas Cheng		

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	77.53	31.1 QP	40.0	-8.9	1.00 H	329	47.3	-16.2
2	170.65	28.2 QP	43.5	-15.3	1.99 H	268	41.2	-13.0
3	214.30	29.5 QP	43.5	-14.0	1.00 H	264	45.2	-15.7
4	306.45	33.1 QP	46.0	-12.9	1.00 H	285	44.7	-11.6
5	562.53	28.8 QP	46.0	-17.2	1.00 H	201	35.0	-6.2
6	859.35	34.8 QP	46.0	-11.2	1.00 H	256	36.3	-1.5

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

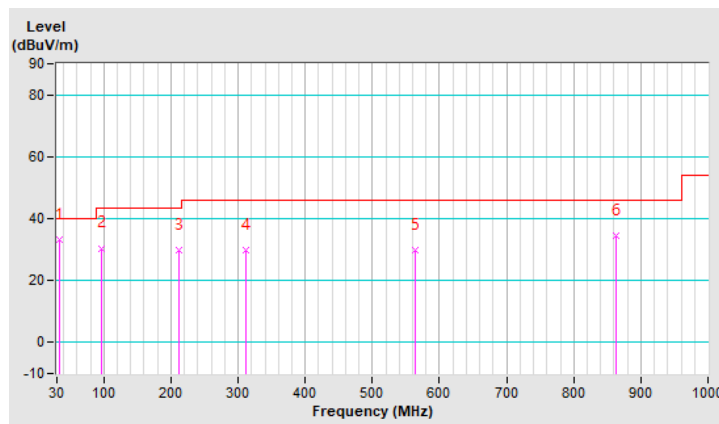


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 68% RH
Tested By	Thomas Cheng		

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	34.85	33.4 QP	40.0	-6.6	1.01 V	308	46.3	-12.9
2	95.96	30.5 QP	43.5	-13.0	1.01 V	173	48.0	-17.5
3	212.36	29.9 QP	43.5	-13.6	1.01 V	165	45.5	-15.6
4	312.27	29.9 QP	46.0	-16.1	2.00 V	317	41.3	-11.4
5	563.50	30.0 QP	46.0	-16.0	1.01 V	155	36.2	-6.2
6	862.26	34.6 QP	46.0	-11.4	2.00 V	210	36.1	-1.5

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	60.3 PK	74.0	-13.7	1.57 H	226	54.3	6.0
2	5150.00	49.8 AV	54.0	-4.2	1.57 H	226	43.8	6.0
3	*5180.00	110.8 PK			1.57 H	226	69.2	41.6
4	*5180.00	102.4 AV			1.57 H	226	60.8	41.6
5	#10360.00	57.8 PK	68.2	-10.4	2.35 H	188	45.2	12.6

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	68.8 PK	74.0	-5.2	1.91 V	26	62.8	6.0
2	5150.00	53.8 AV	54.0	-0.2	1.91 V	26	47.8	6.0
3	*5180.00	123.7 PK			1.91 V	26	82.1	41.6
4	*5180.00	115.1 AV			1.91 V	26	73.5	41.6
5	#10360.00	59.3 PK	68.2	-8.9	2.26 V	198	46.7	12.6

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	114.7 PK			1.55 H	93	73.3	41.4
2	*5200.00	105.9 AV			1.55 H	93	64.5	41.4
3	#10400.00	57.6 PK	68.2	-10.6	3.25 H	167	45.4	12.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	125.8 PK			1.75 V	7	84.4	41.4
2	*5200.00	119.2 AV			1.75 V	7	77.8	41.4
3	#10400.00	58.5 PK	68.2	-9.7	2.34 V	157	46.3	12.2

Remarks:

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



RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	113.8 PK			1.55 H	94	72.4	41.4
2	*5240.00	105.9 AV			1.55 H	94	64.5	41.4
3	5350.00	60.8 PK	74.0	-13.2	1.55 H	94	54.9	5.9
4	5350.00	49.8 AV	54.0	-4.2	1.55 H	94	43.9	5.9
5	#10480.00	58.3 PK	68.2	-9.9	3.54 H	117	45.2	13.1

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	*5240.00	128.1 PK			1.85 V	86	86.7	41.4
2	*5240.00	120.0 AV			1.85 V	86	78.6	41.4
3	5350.00	60.2 PK	74.0	-13.8	1.85 V	86	54.3	5.9
4	5350.00	49.5 AV	54.0	-4.5	1.85 V	86	43.6	5.9
5	#10480.00	59.6 PK	68.2	-8.6	2.57 V	152	46.5	13.1

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 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	60.8 PK	74.0	-13.2	1.45 H	43	54.8	6.0
2	5150.00	50.0 AV	54.0	-4.0	1.45 H	43	44.0	6.0
3	*5260.00	114.2 PK			1.45 H	43	72.8	41.4
4	*5260.00	107.0 AV			1.45 H	43	65.6	41.4
5	#10520.00	58.3 PK	68.2	-9.9	2.57 H	111	45.1	13.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.78 V	65	54.6	6.0
2	5150.00	49.2 AV	54.0	-4.8	1.78 V	65	43.2	6.0
3	*5260.00	127.6 PK			1.78 V	65	86.2	41.4
4	*5260.00	120.1 AV			1.78 V	65	78.7	41.4
5	#10520.00	59.7 PK	68.2	-8.5	2.64 V	157	46.5	13.2

Remarks:

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



RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	113.3 PK			1.45 H	43	72.0	41.3
2	*5300.00	105.5 AV			1.45 H	43	64.2	41.3
3	10600.00	58.9 PK	74.0	-15.1	3.25 H	198	45.3	13.6
4	10600.00	48.8 AV	54.0	-5.2	3.25 H	198	35.2	13.6

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	*5300.00	127.9 PK			1.52 V	19	86.6	41.3
2	*5300.00	120.1 AV			1.52 V	19	78.8	41.3
3	10600.00	59.9 PK	74.0	-14.1	2.32 V	157	46.3	13.6
4	10600.00	49.8 AV	54.0	-4.2	2.32 V	157	36.2	13.6

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	110.6 PK			1.62 H	38	69.2	41.4
2	*5320.00	102.9 AV			1.62 H	38	61.5	41.4
3	5350.00	60.4 PK	74.0	-13.6	1.62 H	38	54.5	5.9
4	5350.00	50.0 AV	54.0	-4.0	1.62 H	38	44.1	5.9
5	10640.00	59.2 PK	74.0	-14.8	2.63 H	227	45.4	13.8
6	10640.00	48.8 AV	54.0	-5.2	2.63 H	227	35.0	13.8
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	*5320.00	126.9 PK			1.72 V	33	85.5	41.4
2	*5320.00	118.4 AV			1.72 V	33	77.0	41.4
3	5350.00	67.9 PK	74.0	-6.1	1.72 V	33	62.0	5.9
4	5350.00	53.6 AV	54.0	-0.4	1.72 V	33	47.7	5.9
5	10640.00	60.1 PK	74.0	-13.9	2.52 V	185	46.3	13.8
6	10640.00	49.9 AV	54.0	-4.1	2.52 V	185	36.1	13.8

Remarks:

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



RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	61.6 PK	74.0	-12.4	1.54 H	222	55.5	6.1
2	5460.00	50.3 AV	54.0	-3.7	1.54 H	222	44.2	6.1
3	#5470.00	61.9 PK	68.2	-6.3	1.54 H	222	55.8	6.1
4	*5500.00	112.4 PK			1.54 H	222	70.8	41.6
5	*5500.00	104.4 AV			1.54 H	222	62.8	41.6
6	11000.00	58.1 PK	74.0	-15.9	2.78 H	263	44.5	13.6
7	11000.00	48.2 AV	54.0	-5.8	2.78 H	263	34.6	13.6

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	61.8 PK	74.0	-12.2	1.61 V	24	55.7	6.1
2	5460.00	52.1 AV	54.0	-1.9	1.61 V	24	46.0	6.1
3	#5470.00	68.0 PK	68.2	-0.2	1.61 V	24	61.9	6.1
4	*5500.00	126.4 PK			1.61 V	24	84.8	41.6
5	*5500.00	118.4 AV			1.61 V	24	76.8	41.6
6	11000.00	58.9 PK	74.0	-15.1	2.52 V	321	45.3	13.6
7	11000.00	48.8 AV	54.0	-5.2	2.52 V	321	35.2	13.6

Remarks:

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

RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	115.9 PK			1.52 H	35	74.0	41.9
2	*5580.00	107.8 AV			1.52 H	35	65.9	41.9
3	11160.00	58.8 PK	74.0	-15.2	3.25 H	155	45.3	13.5
4	11160.00	48.9 AV	54.0	-5.1	3.25 H	155	35.4	13.5

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	*5580.00	128.4 PK			1.65 V	341	86.5	41.9
2	*5580.00	120.3 AV			1.65 V	341	78.4	41.9
3	11160.00	59.3 PK	74.0	-14.7	2.87 V	154	45.8	13.5
4	11160.00	49.2 AV	54.0	-4.8	2.87 V	154	35.7	13.5

Remarks:

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



RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	113.5 PK			3.75 H	306	71.5	42.0
2	*5700.00	104.7 AV			3.75 H	306	62.7	42.0
3	#5725.00	62.2 PK	68.2	-6.0	3.75 H	306	55.4	6.8
4	11400.00	58.6 PK	74.0	-15.4	1.03 H	258	44.6	14.0
5	11400.00	48.7 AV	54.0	-5.3	1.03 H	258	34.7	14.0

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	*5700.00	124.2 PK			2.12 V	191	82.2	42.0
2	*5700.00	116.3 AV			2.12 V	191	74.3	42.0
3	#5725.00	68.0 PK	68.2	-0.2	2.12 V	191	61.2	6.8
4	11400.00	59.3 PK	74.0	-14.7	2.87 V	45	45.3	14.0
5	11400.00	49.4 AV	54.0	-4.6	2.87 V	45	35.4	14.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	116.6 PK			2.65 H	150	74.5	42.1
2	*5720.00	108.2 AV			2.65 H	150	66.1	42.1
3	#5850.00	62.1 PK	68.2	-6.1	2.65 H	150	54.6	7.5
4	11440.00	58.9 PK	74.0	-15.1	2.64 H	152	44.6	14.3
5	11440.00	49.1 AV	54.0	-4.9	2.64 H	152	34.8	14.3

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	*5720.00	128.4 PK			1.82 V	205	86.3	42.1
2	*5720.00	120.3 AV			1.82 V	205	78.2	42.1
3	#5850.00	62.4 PK	68.2	-5.8	1.82 V	205	54.9	7.5
4	11440.00	59.7 PK	74.0	-14.3	2.53 V	165	45.4	14.3
5	11440.00	49.6 AV	54.0	-4.4	2.53 V	165	35.3	14.3

Remarks:

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



RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5631.60	62.3 PK	68.2	-5.9	2.78 H	149	55.8	6.5
2	*5745.00	117.1 PK			2.78 H	149	74.8	42.3
3	*5745.00	108.6 AV			2.78 H	149	66.3	42.3
4	#5922.40	63.1 PK	70.1	-7.0	2.78 H	149	55.4	7.7
5	11490.00	58.9 PK	74.0	-15.1	1.52 H	236	44.5	14.4
6	11490.00	48.6 AV	54.0	-5.4	1.52 H	236	34.2	14.4

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	#5621.20	61.6 PK	68.2	-6.6	2.45 V	231	55.1	6.5
2	*5745.00	128.5 PK			2.45 V	231	86.2	42.3
3	*5745.00	120.4 AV			2.45 V	231	78.1	42.3
4	#5929.20	62.5 PK	68.2	-5.7	2.45 V	231	54.8	7.7
5	11490.00	60.0 PK	74.0	-14.0	3.25 V	174	45.6	14.4
6	11490.00	49.6 AV	54.0	-4.4	3.25 V	174	35.2	14.4

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.00	61.7 PK	68.2	-6.5	2.02 H	41	55.2	6.5
2	*5785.00	116.8 PK			2.02 H	41	74.3	42.5
3	*5785.00	109.1 AV			2.02 H	41	66.6	42.5
4	#5974.00	62.7 PK	68.2	-5.5	2.02 H	41	55.2	7.5
5	11570.00	59.3 PK	74.0	-14.7	1.53 H	241	44.3	15.0
6	11570.00	49.4 AV	54.0	-4.6	1.53 H	241	34.4	15.0

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	#5610.00	62.0 PK	68.2	-6.2	2.09 V	139	55.6	6.4
2	*5785.00	129.0 PK			2.09 V	139	86.5	42.5
3	*5785.00	120.6 AV			2.09 V	139	78.1	42.5
4	#5991.60	62.2 PK	68.2	-6.0	2.09 V	139	54.6	7.6
5	11570.00	60.3 PK	74.0	-13.7	3.26 V	114	45.3	15.0
6	11570.00	50.0 AV	54.0	-4.0	3.26 V	114	35.0	15.0

Remarks:

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



RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5626.40	61.8 PK	68.2	-6.4	1.28 H	315	55.3	6.5
2	*5825.00	116.5 PK			1.28 H	315	73.9	42.6
3	*5825.00	108.8 AV			1.28 H	315	66.2	42.6
4	#5934.00	62.8 PK	68.2	-5.4	1.28 H	315	55.1	7.7
5	11650.00	59.1 PK	74.0	-14.9	2.37 H	178	44.5	14.6
6	11650.00	49.0 AV	54.0	-5.0	2.37 H	178	34.4	14.6

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	#5648.40	62.5 PK	68.2	-5.7	2.05 V	139	56.0	6.5
2	*5825.00	128.8 PK			2.05 V	139	86.2	42.6
3	*5825.00	120.4 AV			2.05 V	139	77.8	42.6
4	#5950.80	61.9 PK	68.2	-6.3	2.05 V	139	54.4	7.5
5	11650.00	59.8 PK	74.0	-14.2	3.37 V	185	45.2	14.6
6	11650.00	49.7 AV	54.0	-4.3	3.37 V	185	35.1	14.6

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 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	vincent chen		

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	2.74 H	159	41.1	21.0
2	5150.00	48.4 AV	54.0	-5.6	2.74 H	159	27.4	21.0
3	*5180.00	113.3 PK			2.74 H	159	72.1	41.2
4	*5180.00	101.1 AV			2.74 H	159	59.9	41.2
5	#10360.00	63.1 PK	68.2	-5.1	2.66 H	188	38.7	24.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.8 PK	74.0	-3.2	1.74 V	183	49.8	21.0
2	5150.00	53.6 AV	54.0	-0.4	1.74 V	183	32.6	21.0
3	*5180.00	126.1 PK			1.74 V	183	84.9	41.2
4	*5180.00	114.2 AV			1.74 V	183	73.0	41.2
5	#10360.00	63.3 PK	68.2	-4.9	2.11 V	223	38.9	24.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	113.7 PK			1.49 H	226	72.3	41.4
2	*5200.00	104.8 AV			1.49 H	226	63.4	41.4
3	#10400.00	58.4 PK	68.2	-9.8	2.73 H	244	46.2	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	126.4 PK			1.63 V	35	85.0	41.4
2	*5200.00	117.5 AV			1.63 V	35	76.1	41.4
3	#10400.00	58.7 PK	68.2	-9.5	1.67 V	336	46.5	12.2

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	114.8 PK			3.22 H	294	73.4	41.4
2	*5240.00	105.9 AV			3.22 H	294	64.5	41.4
3	5350.00	60.2 PK	74.0	-13.8	3.22 H	294	54.3	5.9
4	5350.00	49.0 AV	54.0	-5.0	3.22 H	294	43.1	5.9
5	#10480.00	59.6 PK	68.2	-8.6	3.29 H	110	46.5	13.1

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	*5240.00	126.8 PK			1.67 V	29	85.4	41.4
2	*5240.00	117.9 AV			1.67 V	29	76.5	41.4
3	5350.00	60.5 PK	74.0	-13.5	1.67 V	29	54.6	5.9
4	5350.00	49.1 AV	54.0	-4.9	1.67 V	29	43.2	5.9
5	#10480.00	59.9 PK	68.2	-8.3	2.48 V	146	46.8	13.1

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 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	3.17 H	159	53.3	6.0
2	5150.00	49.1 AV	54.0	-4.9	3.17 H	159	43.1	6.0
3	*5260.00	114.7 PK			3.17 H	159	73.3	41.4
4	*5260.00	105.8 AV			3.17 H	159	64.4	41.4
5	#10520.00	59.0 PK	68.2	-9.2	2.60 H	15	45.8	13.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.62 V	30	53.4	6.0
2	5150.00	49.2 AV	54.0	-4.8	1.62 V	30	43.2	6.0
3	*5260.00	127.0 PK			1.62 V	30	85.6	41.4
4	*5260.00	118.1 AV			1.62 V	30	76.7	41.4
5	#10520.00	59.4 PK	68.2	-8.8	1.26 V	222	46.2	13.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	113.9 PK			3.15 H	162	72.6	41.3
2	*5300.00	105.1 AV			3.15 H	162	63.8	41.3
3	10600.00	59.7 PK	74.0	-14.3	1.42 H	104	46.1	13.6
4	10600.00	48.7 AV	54.0	-5.3	1.42 H	104	35.1	13.6

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	*5300.00	126.6 PK			1.60 V	26	85.3	41.3
2	*5300.00	117.7 AV			1.60 V	26	76.4	41.3
3	10600.00	60.0 PK	74.0	-14.0	2.17 V	196	46.4	13.6
4	10600.00	49.2 AV	54.0	-4.8	2.17 V	196	35.6	13.6

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	110.8 PK			2.55 H	158	69.4	41.4
2	*5320.00	101.8 AV			2.55 H	158	60.4	41.4
3	5350.00	60.6 PK	74.0	-13.4	2.55 H	158	54.7	5.9
4	5350.00	50.1 AV	54.0	-3.9	2.55 H	158	44.2	5.9
5	10640.00	60.4 PK	74.0	-13.6	3.73 H	22	46.6	13.8
6	10640.00	49.3 AV	54.0	-4.7	3.73 H	22	35.5	13.8

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	*5320.00	123.6 PK			1.52 V	28	82.2	41.4
2	*5320.00	114.6 AV			1.52 V	28	73.2	41.4
3	5350.00	70.1 PK	74.0	-3.9	1.70 V	195	64.2	5.9
4	5350.00	53.7 AV	54.0	-0.3	1.70 V	195	47.8	5.9
5	10640.00	60.7 PK	74.0	-13.3	2.87 V	249	46.9	13.8
6	10640.00	49.9 AV	54.0	-4.1	2.87 V	249	36.1	13.8

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	60.7 PK	74.0	-13.3	2.91 H	304	54.6	6.1
2	5460.00	49.9 AV	54.0	-4.1	2.91 H	304	43.8	6.1
3	#5470.00	60.8 PK	68.2	-7.4	2.91 H	304	54.7	6.1
4	*5500.00	109.4 PK			2.91 H	304	67.8	41.6
5	*5500.00	100.3 AV			2.91 H	304	58.7	41.6
6	11000.00	73.3 PK	74.0	-0.7	2.21 H	203	59.7	13.6
7	11000.00	52.5 AV	54.0	-1.5	2.21 H	203	38.9	13.6

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	61.3 PK	74.0	-12.7	1.74 V	203	55.2	6.1
2	5460.00	50.9 AV	54.0	-3.1	1.74 V	203	44.8	6.1
3	#5470.00	67.9 PK	68.2	-0.3	N/A V	N/A	61.8	6.1
4	*5500.00	122.6 PK			1.74 V	203	81.0	41.6
5	*5500.00	113.4 AV			1.74 V	203	71.8	41.6
6	11000.00	59.9 PK	74.0	-14.1	3.20 V	356	46.3	13.6
7	11000.00	49.4 AV	54.0	-4.6	3.20 V	356	35.8	13.6

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	114.8 PK			2.88 H	196	72.9	41.9
2	*5580.00	105.9 AV			2.88 H	196	64.0	41.9
3	11160.00	59.9 PK	74.0	-14.1	2.34 H	113	46.4	13.5
4	11160.00	48.8 AV	54.0	-5.2	2.34 H	113	35.3	13.5
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	*5580.00	127.5 PK			1.73 V	196	85.6	41.9
2	*5580.00	118.6 AV			1.73 V	196	76.7	41.9
3	11160.00	60.4 PK	74.0	-13.6	3.92 V	286	46.9	13.5
4	11160.00	49.2 AV	54.0	-4.8	3.92 V	286	35.7	13.5

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	104.9 PK			1.82 H	182	62.9	42.0
2	*5700.00	96.0 AV			1.82 H	182	54.0	42.0
3	#5725.00	61.5 PK	68.2	-6.7	1.82 H	182	54.7	6.8
4	11400.00	59.8 PK	74.0	-14.2	3.88 H	320	45.8	14.0
5	11400.00	49.1 AV	54.0	-4.9	3.88 H	320	35.1	14.0

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	*5700.00	118.3 PK			1.79 V	128	76.3	42.0
2	*5700.00	109.2 AV			1.79 V	128	67.2	42.0
3	#5725.00	68.0 PK	68.2	-0.2	1.79 V	128	61.2	6.8
4	11400.00	59.9 PK	74.0	-14.1	1.90 V	62	45.9	14.0
5	11400.00	49.3 AV	54.0	-4.7	1.90 V	62	35.3	14.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	115.8 PK			1.79 H	182	73.7	42.1
2	*5720.00	106.9 AV			1.79 H	182	64.8	42.1
3	#5850.00	61.6 PK	68.2	-6.6	1.79 H	182	54.1	7.5
4	11440.00	60.2 PK	74.0	-13.8	1.42 H	160	45.9	14.3
5	11440.00	49.5 AV	54.0	-4.5	1.42 H	160	35.2	14.3

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	*5720.00	128.7 PK			1.82 V	129	86.6	42.1
2	*5720.00	119.8 AV			1.82 V	129	77.7	42.1
3	#5850.00	61.7 PK	68.2	-6.5	1.82 V	129	54.2	7.5
4	11440.00	61.1 PK	74.0	-12.9	2.17 V	195	46.8	14.3
5	11440.00	49.9 AV	54.0	-4.1	2.17 V	195	35.6	14.3

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5632.00	62.5 PK	68.2	-5.7	1.80 H	182	56.0	6.5
2	*5745.00	115.8 PK			1.80 H	182	73.5	42.3
3	*5745.00	106.8 AV			1.80 H	182	64.5	42.3
4	#5937.60	62.9 PK	68.2	-5.3	1.80 H	182	55.2	7.7
5	11490.00	60.5 PK	74.0	-13.5	2.25 H	125	46.1	14.4
6	11490.00	49.7 AV	54.0	-4.3	2.25 H	125	35.3	14.4

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	#5640.00	62.1 PK	68.2	-6.1	1.73 V	129	55.6	6.5
2	*5745.00	128.8 PK			1.73 V	129	86.5	42.3
3	*5745.00	119.8 AV			1.73 V	129	77.5	42.3
4	#5955.20	61.9 PK	68.2	-6.3	1.73 V	129	54.4	7.5
5	11490.00	61.0 PK	74.0	-13.0	3.86 V	63	46.6	14.4
6	11490.00	49.9 AV	54.0	-4.1	3.86 V	63	35.5	14.4

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5600.00	61.9 PK	68.2	-6.3	1.77 H	203	55.7	6.2
2	*5785.00	116.1 PK			1.77 H	203	73.6	42.5
3	*5785.00	107.2 AV			1.77 H	203	64.7	42.5
4	#5963.60	62.6 PK	68.2	-5.6	1.77 H	203	55.1	7.5
5	11570.00	60.9 PK	74.0	-13.1	3.96 H	118	45.9	15.0
6	11570.00	49.3 AV	54.0	-4.7	3.96 H	118	34.3	15.0

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	#5621.20	62.0 PK	68.2	-6.2	1.73 V	129	55.5	6.5
2	*5785.00	128.8 PK			1.73 V	129	86.3	42.5
3	*5785.00	120.0 AV			1.73 V	129	77.5	42.5
4	#5949.60	62.8 PK	68.2	-5.4	1.73 V	129	55.3	7.5
5	11570.00	61.8 PK	74.0	-12.2	1.73 V	129	46.8	15.0
6	11570.00	49.7 AV	54.0	-4.3	1.73 V	129	34.7	15.0

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5642.80	61.4 PK	68.2	-6.8	1.77 H	203	54.9	6.5
2	*5825.00	116.4 PK			1.77 H	203	73.8	42.6
3	*5825.00	107.4 AV			1.77 H	203	64.8	42.6
4	#5930.80	62.6 PK	68.2	-5.6	1.77 H	203	54.9	7.7
5	11650.00	60.9 PK	74.0	-13.1	2.55 H	38	46.3	14.6
6	11650.00	49.0 AV	54.0	-5.0	2.55 H	38	34.4	14.6

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	#5641.60	61.7 PK	68.2	-6.5	1.73 V	129	55.2	6.5
2	*5825.00	128.9 PK			1.73 V	129	86.3	42.6
3	*5825.00	120.0 AV			1.73 V	129	77.4	42.6
4	#5936.40	62.5 PK	68.2	-5.7	1.73 V	129	54.8	7.7
5	11650.00	61.4 PK	74.0	-12.6	3.64 V	191	46.8	14.6
6	11650.00	49.3 AV	54.0	-4.7	3.64 V	191	34.7	14.6

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 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	vincent chen		

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	60.6 PK	74.0	-13.4	2.75 H	158	39.6	21.0
2	5150.00	47.7 AV	54.0	-6.3	2.75 H	158	26.7	21.0
3	*5190.00	109.2 PK			2.75 H	158	68.1	41.1
4	*5190.00	97.1 AV			2.75 H	158	56.0	41.1
5	#10380.00	63.7 PK	68.2	-4.5	2.69 H	198	39.2	24.5

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5145.60	71.8 PK	74.0	-2.2	1.71 V	184	50.8	21.0
2	5145.60	51.6 AV	54.0	-2.4	1.71 V	184	30.6	21.0
3	*5190.00	121.1 PK			1.71 V	184	80.0	41.1
4	*5190.00	108.9 AV			1.71 V	184	67.8	41.1
5	#10380.00	63.9 PK	68.2	-4.3	1.88 V	203	39.4	24.5

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	1.76 H	84	53.7	6.0
2	5150.00	50.0 AV	54.0	-4.0	1.76 H	84	44.0	6.0
3	*5230.00	111.9 PK			1.76 H	84	70.5	41.4
4	*5230.00	103.0 AV			1.76 H	84	61.6	41.4
5	5350.00	60.8 PK	74.0	-13.2	1.76 H	84	54.9	5.9
6	5350.00	49.7 AV	54.0	-4.3	1.76 H	84	43.8	5.9
7	#10460.00	59.0 PK	68.2	-9.2	1.75 H	44	46.2	12.8

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	65.6 PK	74.0	-8.4	1.70 V	31	59.6	6.0
2	5150.00	53.6 AV	54.0	-0.4	1.70 V	31	47.6	6.0
3	*5230.00	125.0 PK			1.70 V	31	83.6	41.4
4	*5230.00	116.1 AV			1.70 V	31	74.7	41.4
5	5350.00	60.9 PK	74.0	-13.1	1.70 V	31	55.0	5.9
6	5350.00	49.8 AV	54.0	-4.2	1.70 V	31	43.9	5.9
7	#10460.00	59.4 PK	68.2	-8.8	1.54 V	244	46.6	12.8

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	60.2 PK	74.0	-13.8	1.72 H	84	54.2	6.0
2	5150.00	49.5 AV	54.0	-4.5	1.72 H	84	43.5	6.0
3	*5270.00	112.4 PK			1.72 H	84	71.0	41.4
4	*5270.00	103.4 AV			1.72 H	84	62.0	41.4
5	5350.00	60.2 PK	74.0	-13.8	1.72 H	84	54.3	5.9
6	5350.00	49.8 AV	54.0	-4.2	1.72 H	84	43.9	5.9
7	#10540.00	59.4 PK	68.2	-8.8	1.64 H	264	46.0	13.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	1.70 V	32	54.3	6.0
2	5150.00	49.7 AV	54.0	-4.3	1.70 V	32	43.7	6.0
3	*5270.00	125.3 PK			1.70 V	32	83.9	41.4
4	*5270.00	116.4 AV			1.70 V	32	75.0	41.4
5	5350.00	65.4 PK	74.0	-8.6	1.70 V	32	59.5	5.9
6	5350.00	53.7 AV	54.0	-0.3	1.70 V	32	47.8	5.9
7	#10540.00	59.7 PK	68.2	-8.5	3.26 V	101	46.3	13.4

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	102.0 PK			1.81 H	162	60.7	41.3
2	*5310.00	92.5 AV			1.81 H	162	51.2	41.3
3	5350.00	60.7 PK	74.0	-13.3	1.81 H	162	54.8	5.9
4	5350.00	49.8 AV	54.0	-4.2	1.81 H	162	43.9	5.9
5	10620.00	58.0 PK	74.0	-16.0	2.37 H	196	44.3	13.7
6	10620.00	47.9 AV	54.0	-6.1	2.37 H	196	34.2	13.7

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	*5310.00	114.5 PK			1.51 V	27	73.2	41.3
2	*5310.00	105.6 AV			1.51 V	27	64.3	41.3
3	5352.53	61.6 PK	74.0	-12.4	1.51 V	27	55.7	5.9
4	5352.53	53.8 AV	54.0	-0.2	1.51 V	27	47.9	5.9
5	10620.00	59.3 PK	74.0	-14.7	2.35 V	167	45.6	13.7
6	10620.00	49.2 AV	54.0	-4.8	2.35 V	167	35.5	13.7

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	60.9 PK	74.0	-13.1	1.07 H	162	54.8	6.1
2	5460.00	50.0 AV	54.0	-4.0	1.07 H	162	43.9	6.1
3	#5470.00	61.5 PK	68.2	-6.7	1.07 H	162	55.4	6.1
4	*5510.00	102.7 PK			1.07 H	162	61.0	41.7
5	*5510.00	93.3 AV			1.07 H	162	51.6	41.7
6	11020.00	57.7 PK	74.0	-16.3	3.52 H	187	44.2	13.5
7	11020.00	48.1 AV	54.0	-5.9	3.52 H	187	34.6	13.5

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	5457.14	61.5 PK	74.0	-12.5	1.62 V	19	55.4	6.1
2	5457.14	50.6 AV	54.0	-3.4	1.62 V	19	44.5	6.1
3	#5470.00	68.0 PK	68.2	-0.2	1.62 V	19	61.9	6.1
4	*5510.00	115.4 PK			1.62 V	19	73.7	41.7
5	*5510.00	105.5 AV			1.62 V	19	63.8	41.7
6	11020.00	58.8 PK	74.0	-15.2	2.46 V	165	45.3	13.5
7	11020.00	48.7 AV	54.0	-5.3	2.46 V	165	35.2	13.5

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	1.03 H	158	53.4	6.1
2	5460.00	49.4 AV	54.0	-4.6	1.03 H	158	43.3	6.1
3	#5470.00	60.7 PK	68.2	-7.5	1.03 H	158	54.6	6.1
4	*5550.00	112.6 PK			1.03 H	158	70.8	41.8
5	*5550.00	103.4 AV			1.03 H	158	61.6	41.8
6	11100.00	57.8 PK	74.0	-16.2	2.54 H	123	44.5	13.3
7	11100.00	47.4 AV	54.0	-6.6	2.54 H	123	34.1	13.3

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	5457.69	66.0 PK	74.0	-8.0	1.70 V	153	59.9	6.1
2	5457.69	52.8 AV	54.0	-1.2	1.70 V	153	46.7	6.1
3	#5467.24	68.0 PK	68.2	-0.2	1.70 V	153	61.9	6.1
4	*5550.00	126.3 PK			1.70 V	153	84.5	41.8
5	*5550.00	116.2 AV			1.70 V	153	74.4	41.8
6	11100.00	58.6 PK	74.0	-15.4	1.63 V	297	45.3	13.3
7	11100.00	48.5 AV	54.0	-5.5	1.63 V	297	35.2	13.3

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	109.7 PK			1.60 H	153	67.7	42.0
2	*5670.00	100.7 AV			1.60 H	153	58.7	42.0
3	#5725.00	62.2 PK	68.2	-6.0	1.60 H	153	55.4	6.8
4	11340.00	58.0 PK	74.0	-16.0	3.32 H	257	44.2	13.8
5	11340.00	48.1 AV	54.0	-5.9	3.32 H	257	34.3	13.8

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	*5670.00	122.1 PK			1.69 V	202	80.1	42.0
2	*5670.00	113.8 AV			1.69 V	202	71.8	42.0
3	#5725.00	68.0 PK	68.2	-0.2	1.69 V	202	61.2	6.8
4	11340.00	59.0 PK	74.0	-15.0	2.56 V	174	45.2	13.8
5	11340.00	49.2 AV	54.0	-4.8	2.56 V	174	35.4	13.8

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	114.4 PK			1.67 H	25	72.3	42.1
2	*5710.00	105.4 AV			1.67 H	25	63.3	42.1
3	#5850.00	62.3 PK	68.2	-5.9	1.67 H	25	54.8	7.5
4	11420.00	60.6 PK	74.0	-13.4	2.72 H	227	46.5	14.1
5	11420.00	49.0 AV	54.0	-5.0	2.72 H	227	34.9	14.1

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	*5710.00	128.0 PK			1.75 V	151	85.9	42.1
2	*5710.00	119.1 AV			1.75 V	151	77.0	42.1
3	#5850.00	65.5 PK	68.2	-2.7	1.75 V	151	58.0	7.5
4	11420.00	60.9 PK	74.0	-13.1	3.52 V	57	46.8	14.1
5	11420.00	49.4 AV	54.0	-4.6	3.52 V	57	35.3	14.1

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 (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.60	62.6 PK	68.2	-5.6	1.48 H	24	56.1	6.5
2	*5755.00	113.7 PK			1.48 H	24	71.4	42.3
3	*5755.00	104.8 AV			1.48 H	24	62.5	42.3
4	#5929.60	63.1 PK	68.2	-5.1	1.48 H	24	55.4	7.7
5	11510.00	60.7 PK	74.0	-13.3	1.65 H	82	46.2	14.5
6	11510.00	49.5 AV	54.0	-4.5	1.65 H	82	35.0	14.5

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	#5647.60	65.1 PK	68.2	-3.1	1.75 V	152	58.6	6.5
2	*5755.00	127.5 PK			1.75 V	152	85.2	42.3
3	*5755.00	118.6 AV			1.75 V	152	76.3	42.3
4	#5928.00	62.3 PK	68.2	-5.9	1.75 V	152	54.6	7.7
5	11510.00	61.0 PK	74.0	-13.0	1.85 V	220	46.5	14.5
6	11510.00	49.8 AV	54.0	-4.2	1.85 V	220	35.3	14.5

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	vincent chen		

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	#5646.80	61.9 PK	68.2	-6.3	1.45 H	22	55.4	6.5
2	*5795.00	113.9 PK			1.45 H	22	71.4	42.5
3	*5795.00	105.0 AV			1.45 H	22	62.5	42.5
4	#5927.20	62.4 PK	68.2	-5.8	1.45 H	22	54.7	7.7
5	11590.00	61.7 PK	74.0	-12.3	1.06 H	314	46.6	15.1
6	11590.00	49.7 AV	54.0	-4.3	1.06 H	314	34.6	15.1

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	#5642.80	61.9 PK	68.2	-6.3	1.75 V	151	55.4	6.5
2	*5795.00	127.4 PK			1.75 V	151	84.9	42.5
3	*5795.00	118.5 AV			1.75 V	151	76.0	42.5
4	#5927.60	65.9 PK	68.2	-2.3	1.75 V	151	58.2	7.7
5	11590.00	62.1 PK	74.0	-11.9	3.53 V	113	47.0	15.1
6	11590.00	50.0 AV	54.0	-4.0	3.53 V	113	34.9	15.1

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	vincent chen		

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	60.1 PK	74.0	-13.9	3.46 H	112	39.1	21.0
2	5150.00	48.0 AV	54.0	-6.0	3.46 H	112	27.0	21.0
3	*5210.00	105.0 PK			3.46 H	112	64.0	41.0
4	*5210.00	92.3 AV			3.46 H	112	51.3	41.0
5	#10420.00	63.1 PK	68.2	-5.1	3.77 H	155	38.5	24.6

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	5145.80	64.2 PK	74.0	-9.8	1.66 V	203	43.2	21.0
2	5145.80	53.7 AV	54.0	-0.3	1.66 V	203	32.7	21.0
3	*5210.00	115.8 PK			1.66 V	203	74.8	41.0
4	*5210.00	104.8 AV			1.66 V	203	63.8	41.0
5	#10420.00	63.4 PK	68.2	-4.8	1.76 V	227	38.8	24.6

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	Vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	104.7 PK			2.86 H	179	63.9	40.8
2	*5290.00	92.8 AV			2.86 H	179	52.0	40.8
3	5350.00	60.8 PK	74.0	-13.2	2.86 H	179	39.8	21.0
4	5350.00	48.5 AV	54.0	-5.5	2.86 H	179	27.5	21.0
5	#10580.00	63.5 PK	68.2	-4.7	3.32 H	193	38.5	25.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	113.9 PK			1.60 V	198	73.1	40.8
2	*5290.00	103.2 AV			1.60 V	198	62.4	40.8
3	5353.80	67.6 PK	74.0	-6.4	1.60 V	198	46.6	21.0
4	5353.80	53.9 AV	54.0	-0.1	1.60 V	198	32.9	21.0
5	#10580.00	63.8 PK	68.2	-4.4	1.82 V	317	38.8	25.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	Vincent chen		

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	61.4 PK	74.0	-12.6	2.56 H	167	40.0	21.4
2	5460.00	47.8 AV	54.0	-6.2	2.56 H	167	26.4	21.4
3	#5470.00	61.9 PK	68.2	-6.3	2.56 H	167	40.5	21.4
4	*5530.00	103.9 PK			2.56 H	167	62.4	41.5
5	*5530.00	91.9 AV			2.56 H	167	50.4	41.5
6	11060.00	60.2 PK	74.0	-13.8	1.79 H	218	33.8	26.4
7	11060.00	49.6 AV	54.0	-4.4	1.79 H	218	23.2	26.4

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	5457.00	65.2 PK	74.0	-8.8	1.55 V	27	59.1	6.1
2	5457.00	53.7 AV	54.0	-0.3	1.55 V	27	47.6	6.1
3	#5467.00	67.7 PK	68.2	-0.5	1.55 V	27	61.6	6.1
4	*5530.00	110.4 PK			1.55 V	27	68.7	41.7
5	*5530.00	101.5 AV			1.55 V	27	59.8	41.7
6	#5725.00	62.4 PK	68.2	-5.8	1.55 V	27	55.6	6.8
7	11060.00	59.9 PK	74.0	-14.1	3.39 V	88	46.5	13.4
8	11060.00	49.6 AV	54.0	-4.4	3.39 V	88	36.2	13.4

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 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	60.6 PK	74.0	-13.4	1.54 H	34	54.5	6.1
2	5460.00	50.2 AV	54.0	-3.8	1.54 H	34	44.1	6.1
3	#5470.00	60.9 PK	68.2	-7.3	1.54 H	34	54.8	6.1
4	*5610.00	107.7 PK			1.54 H	34	65.8	41.9
5	*5610.00	98.6 AV			1.54 H	34	56.7	41.9
6	#5725.00	62.5 PK	68.2	-5.7	1.54 H	34	55.7	6.8
7	11220.00	60.2 PK	74.0	-13.8	3.18 H	189	46.5	13.7
8	11220.00	49.3 AV	54.0	-4.7	3.18 H	189	35.6	13.7

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	61.4 PK	74.0	-12.6	1.76 V	153	55.3	6.1
2	5460.00	51.1 AV	54.0	-2.9	1.76 V	153	45.0	6.1
3	#5470.00	62.7 PK	68.2	-5.5	1.76 V	153	56.6	6.1
4	*5610.00	120.3 PK			1.76 V	153	78.4	41.9
5	*5610.00	111.2 AV			1.76 V	153	69.3	41.9
6	#5725.00	68.0 PK	68.2	-0.2	1.76 V	153	61.2	6.8
7	11220.00	60.4 PK	74.0	-13.6	2.88 V	148	46.7	13.7
8	11220.00	49.6 AV	54.0	-4.4	2.88 V	148	35.9	13.7

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68.2% RH
Tested By	Vincent chen		

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	*5690.00	109.1 PK			1.58 H	32	67.1	42.0
2	*5690.00	100.0 AV			1.58 H	32	58.0	42.0
3	#5850.00	62.3 PK	68.2	-5.9	1.58 H	32	54.8	7.5
4	11380.00	60.1 PK	74.0	-13.9	1.62 H	35	46.0	14.1
5	11380.00	49.4 AV	54.0	-4.6	1.62 H	35	35.3	14.1

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	*5690.00	122.0 PK			1.87 V	137	80.0	42.0
2	*5690.00	112.7 AV			1.87 V	137	70.7	42.0
3	#5851.00	67.9 PK	68.2	-0.3	1.87 V	137	60.4	7.5
4	11380.00	60.6 PK	74.0	-13.4	3.21 V	138	46.5	14.1
5	11380.00	49.5 AV	54.0	-4.5	3.21 V	138	35.4	14.1

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	vincent chen		

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	#5642.80	60.4 PK	68.2	-7.8	2.16 H	167	38.6	21.8
2	*5775.00	108.9 PK			2.16 H	167	66.8	42.1
3	*5775.00	97.9 AV			2.16 H	167	55.8	42.1
4	#5937.20	61.3 PK	68.2	-6.9	2.16 H	167	38.8	22.5
5	11550.00	65.9 PK	74.0	-8.1	2.96 H	132	38.6	27.3
6	11550.00	49.6 AV	54.0	-4.4	2.96 H	132	22.3	27.3

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	#5636.80	66.5 PK	68.2	-1.7	2.87 V	114	44.7	21.8
2	*5775.00	121.4 PK			2.87 V	114	79.3	42.1
3	*5775.00	109.6 AV			2.87 V	114	67.5	42.1
4	#5936.40	67.2 PK	68.2	-1.0	2.87 V	114	44.7	22.5
5	11550.00	66.1 PK	74.0	-7.9	2.64 V	112	38.8	27.3
6	11550.00	49.7 AV	54.0	-4.3	2.64 V	112	22.4	27.3

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	Vincent chen		

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	60.4 PK	74.0	-13.6	2.94 H	161	39.4	21.0
2	5150.00	47.9 AV	54.0	-6.1	2.94 H	161	26.9	21.0
3	*5250.00	101.0 PK			2.94 H	161	60.2	40.8
4	*5250.00	88.6 AV			2.94 H	161	47.8	40.8
5	5460.00	60.5 PK	74.0	-13.5	2.94 H	161	39.1	21.4
6	5460.00	48.2 AV	54.0	-5.8	2.94 H	161	26.8	21.4
7	#5470.00	61.0 PK	68.2	-7.2	2.94 H	161	39.6	21.4
8	#10500.00	63.3 PK	68.2	-4.9	2.86 H	168	38.3	25.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5143.60	63.0 PK	74.0	-11.0	1.68 V	203	42.0	21.0
2	5143.60	52.0 AV	54.0	-2.0	1.68 V	203	31.0	21.0
3	*5250.00	111.6 PK			1.68 V	203	70.8	40.8
4	*5250.00	99.8 AV			1.68 V	203	59.0	40.8
5	5353.40	65.8 PK	74.0	-8.2	1.68 V	203	44.8	21.0
6	5353.40	53.6 AV	54.0	-0.4	1.68 V	203	32.6	21.0
7	#5470.00	62.0 PK	68.2	-6.2	1.68 V	203	40.6	21.4
8	#10500.00	63.5 PK	68.2	-4.7	2.00 V	224	38.5	25.0

Remarks:

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

RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20.2°C, 76.3% RH
Tested By	Vincent chen		

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	61.0 PK	74.0	-13.0	2.34 H	168	39.6	21.4
2	5460.00	47.9 AV	54.0	-6.1	2.34 H	168	26.5	21.4
3	#5470.00	61.3 PK	68.2	-6.9	2.34 H	168	39.9	21.4
4	*5570.00	101.8 PK			2.34 H	168	60.2	41.6
5	*5570.00	89.4 AV			2.34 H	168	47.8	41.6
6	#5725.00	61.2 PK	68.2	-7.0	2.34 H	168	39.0	22.2
7	11140.00	64.6 PK	74.0	-9.4	2.21 H	155	38.5	26.1
8	11140.00	49.4 AV	54.0	-4.6	2.21 H	155	23.3	26.1
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	5457.30	63.8 PK	74.0	-10.2	2.78 V	222	42.3	21.5
2	5457.30	51.4 AV	54.0	-2.6	2.78 V	222	29.9	21.5
3	#5470.00	67.7 PK	68.2	-0.5	2.78 V	222	46.3	21.4
4	*5570.00	113.7 PK			2.78 V	222	72.1	41.6
5	*5570.00	101.1 AV			2.78 V	222	59.5	41.6
6	#5725.00	63.7 PK	68.2	-4.5	2.78 V	222	41.5	22.2
7	11140.00	64.7 PK	74.0	-9.3	2.84 V	232	38.6	26.1
8	11140.00	49.6 AV	54.0	-4.4	2.84 V	232	23.5	26.1

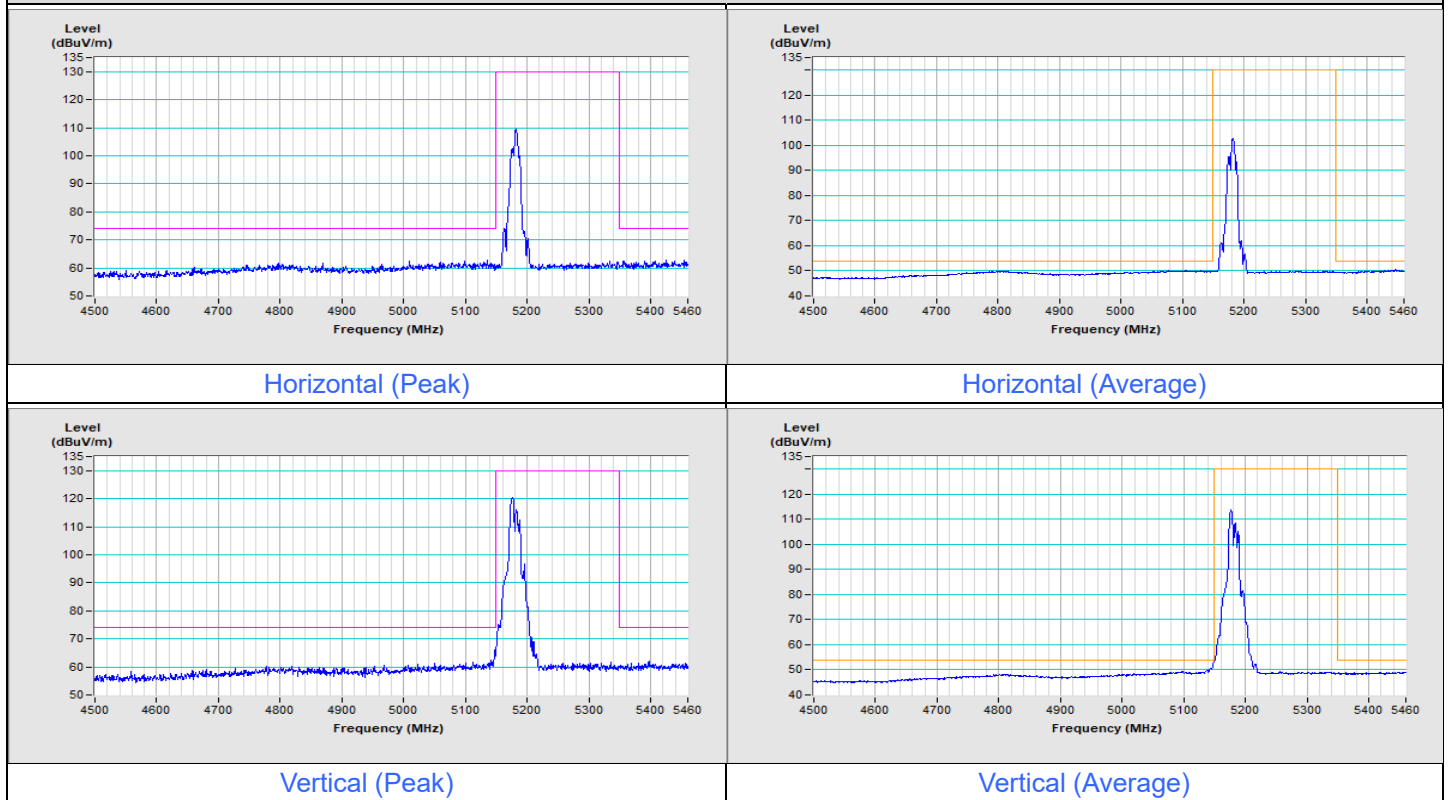
Remarks:

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.

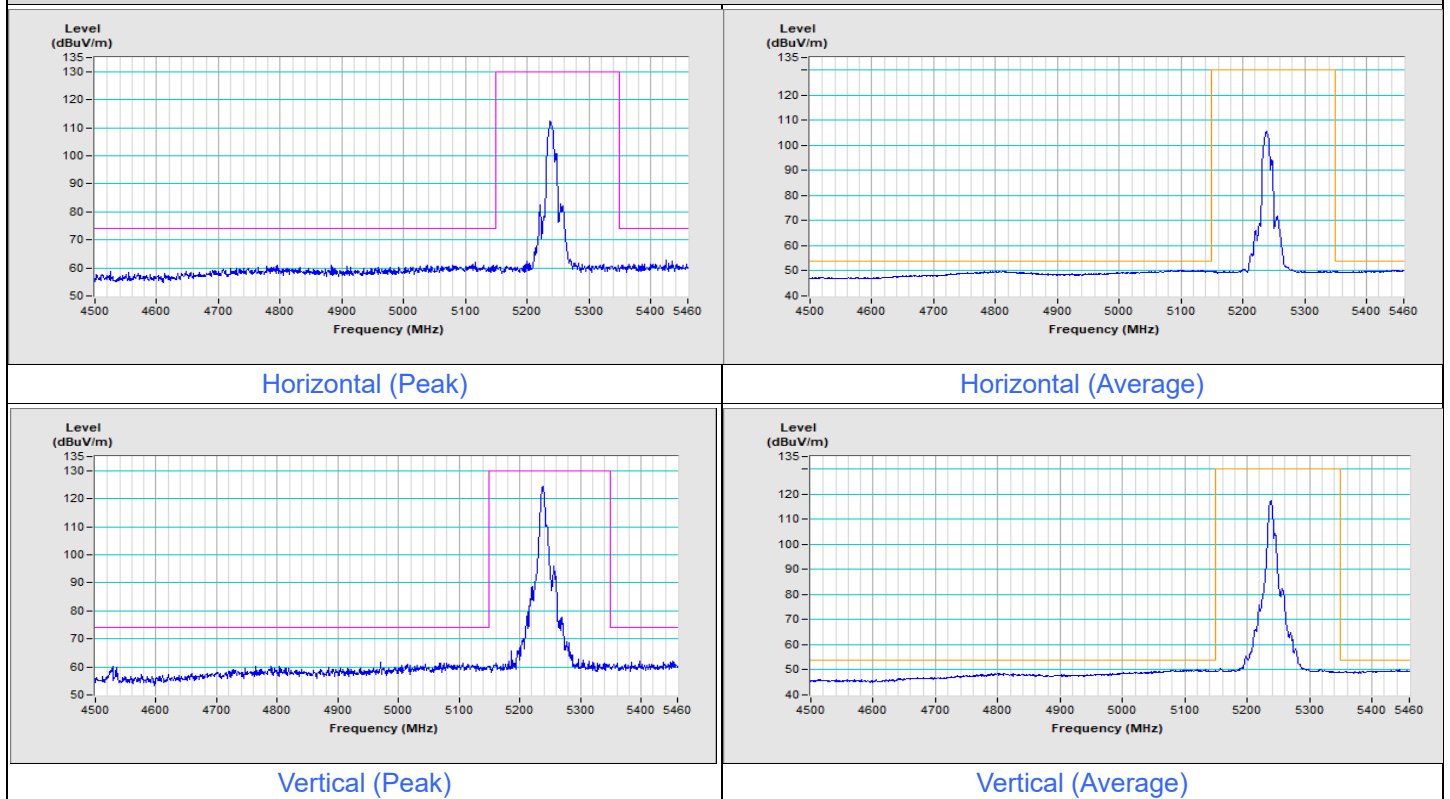


Plot of Band Edge

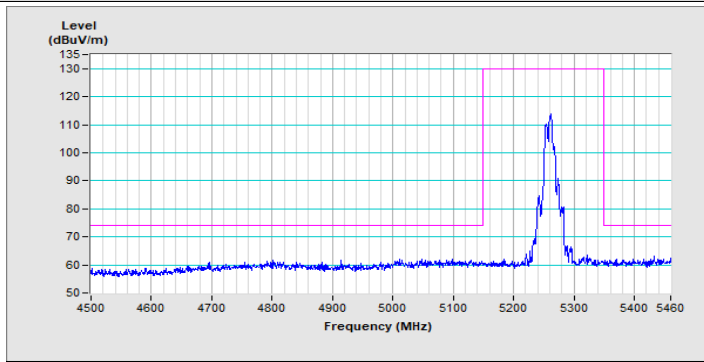
802.11a Channel 36



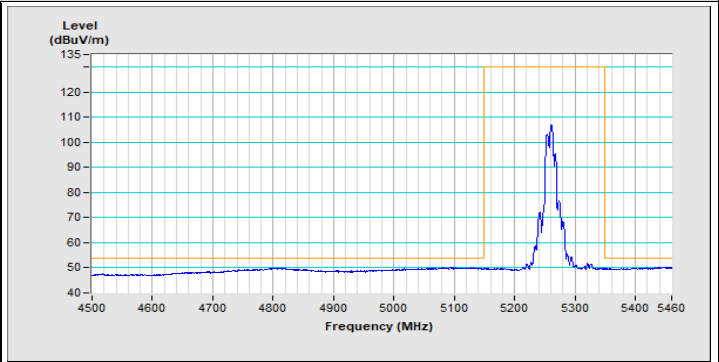
802.11a Channel 48



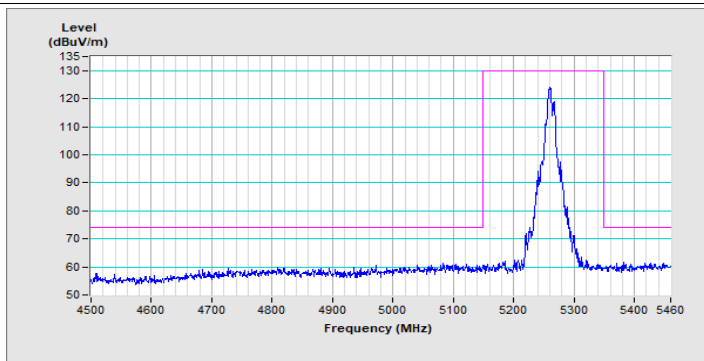
802.11a Channel 52



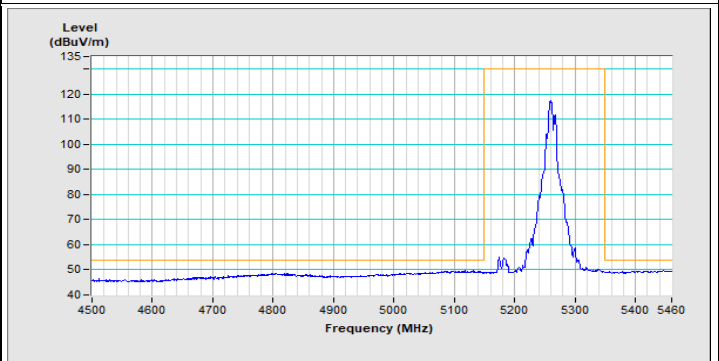
Horizontal (Peak)



Horizontal (Average)

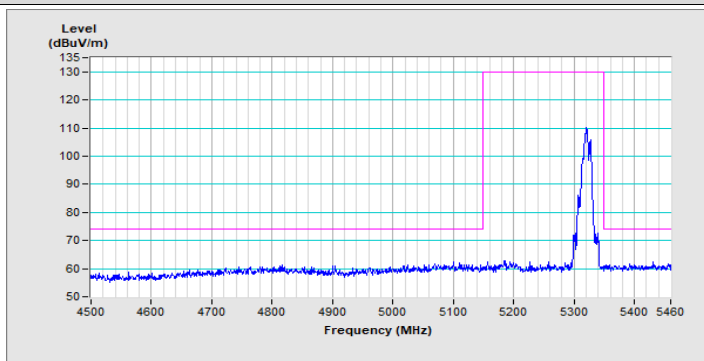


Vertical (Peak)

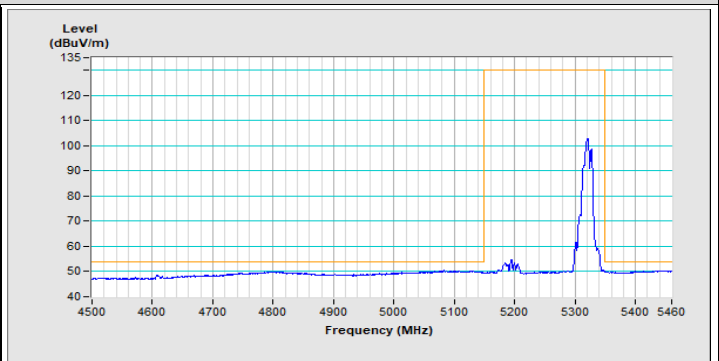


Vertical (Average)

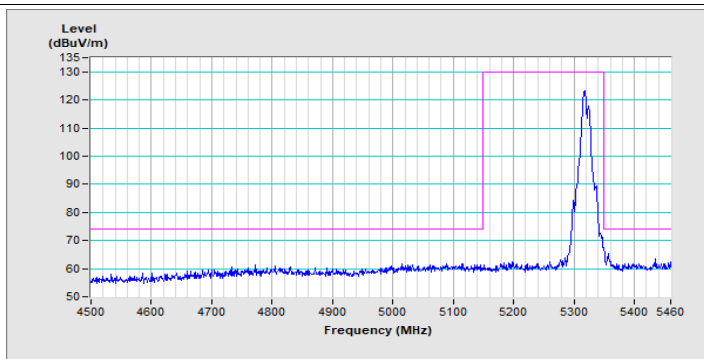
802.11a Channel 64



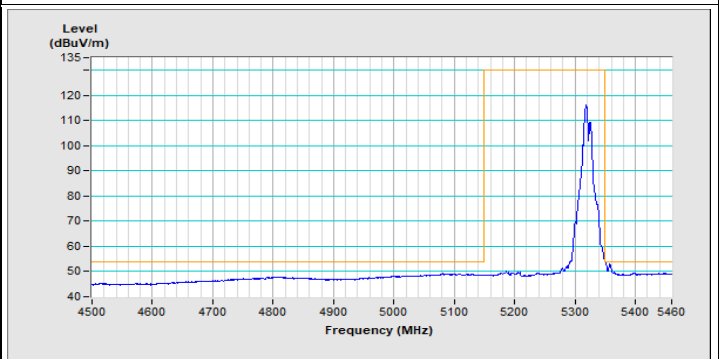
Horizontal (Peak)



Horizontal (Average)

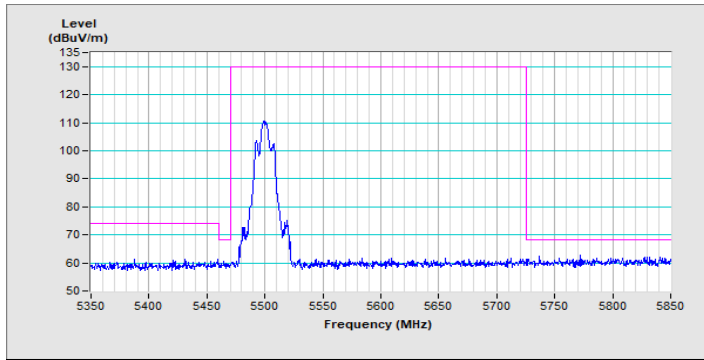


Vertical (Peak)

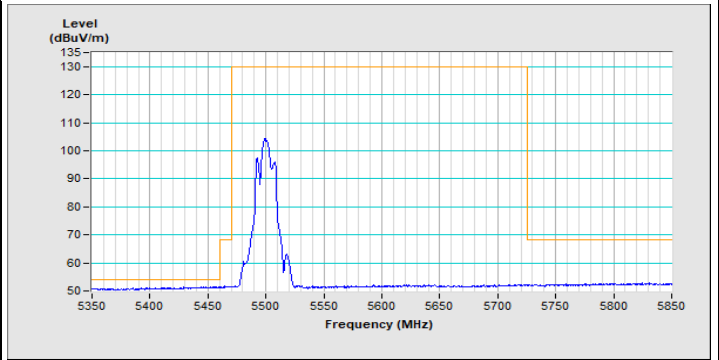


Vertical (Average)

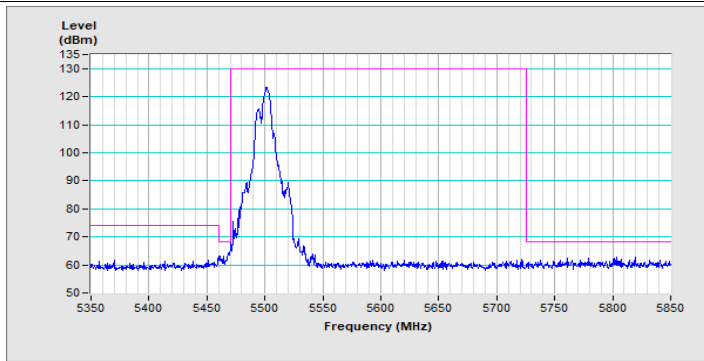
802.11a Channel 100



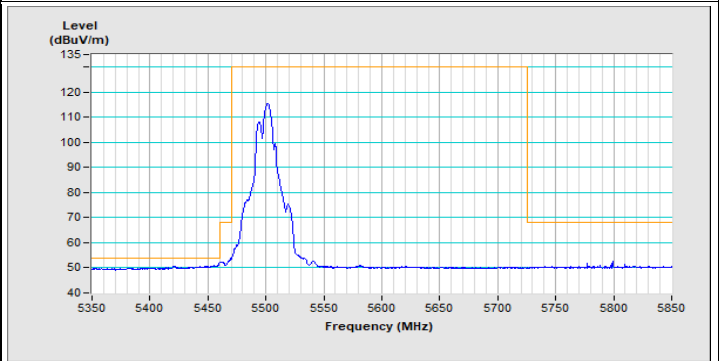
Horizontal (Peak)



Horizontal (Average)

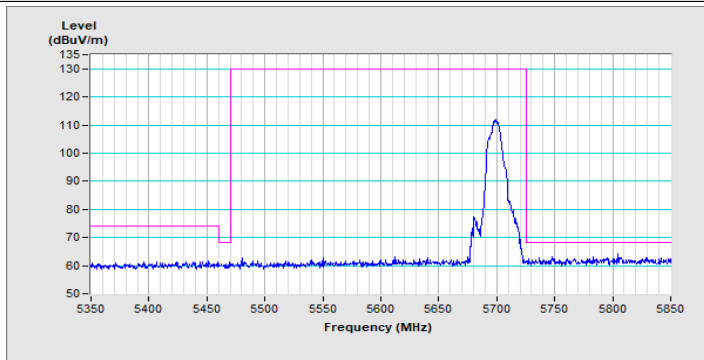


Vertical (Peak)

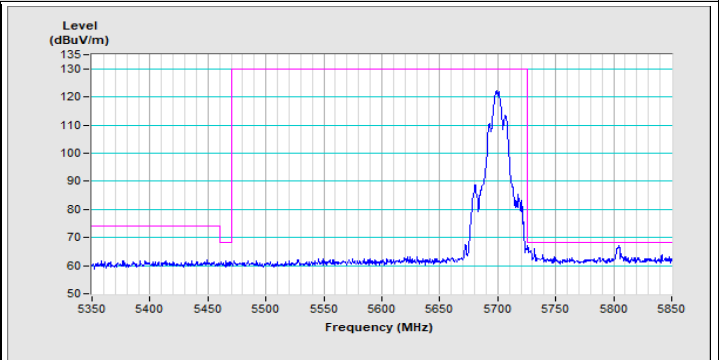


Vertical (Average)

802.11a Channel 140

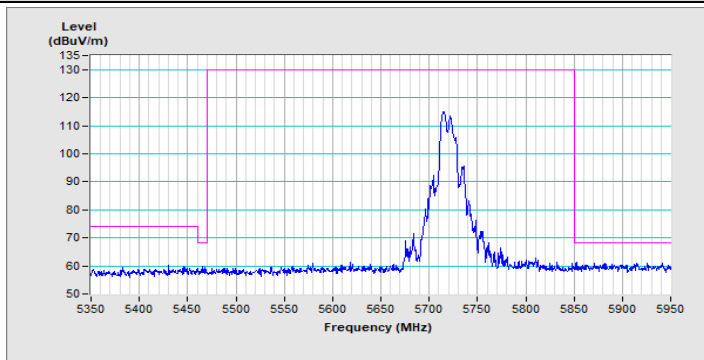


Horizontal (Peak)

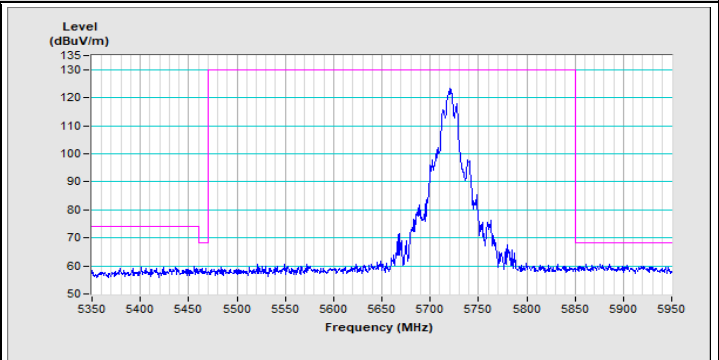


Vertical (Peak)

802.11a Channel 144

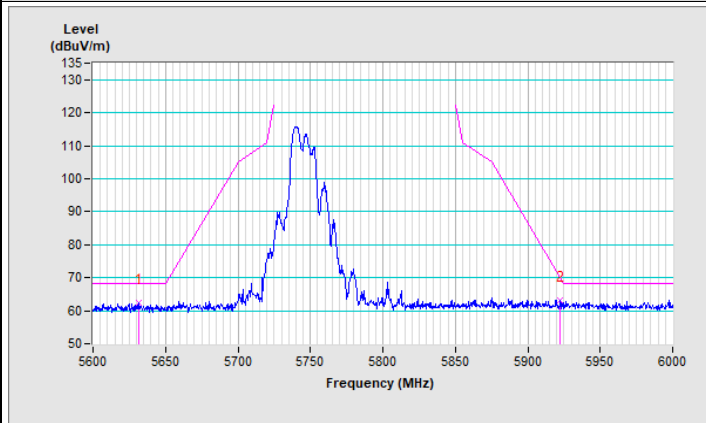


Horizontal (Peak)

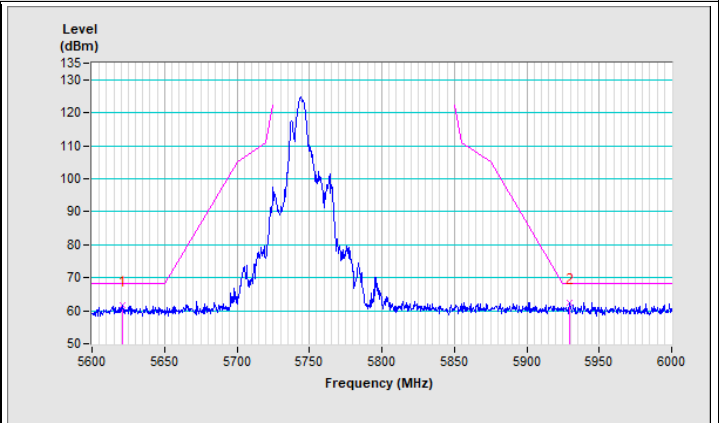


Vertical (Peak)

802.11a Channel 149

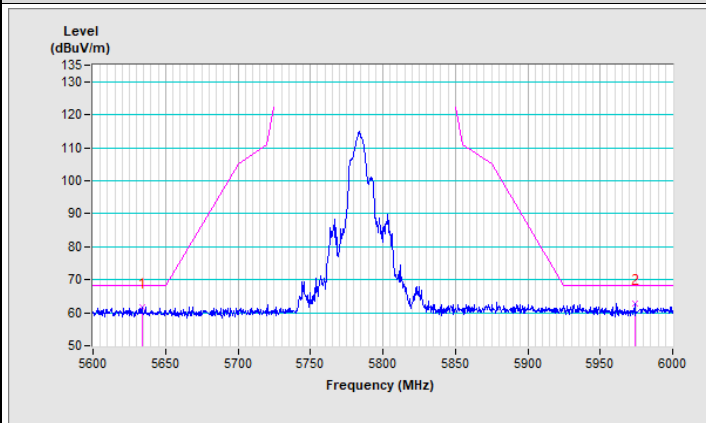


Horizontal (Peak)

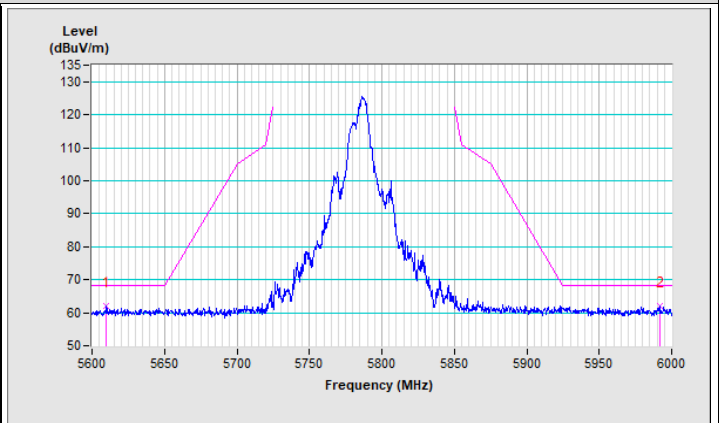


Vertical (Peak)

802.11a Channel 157

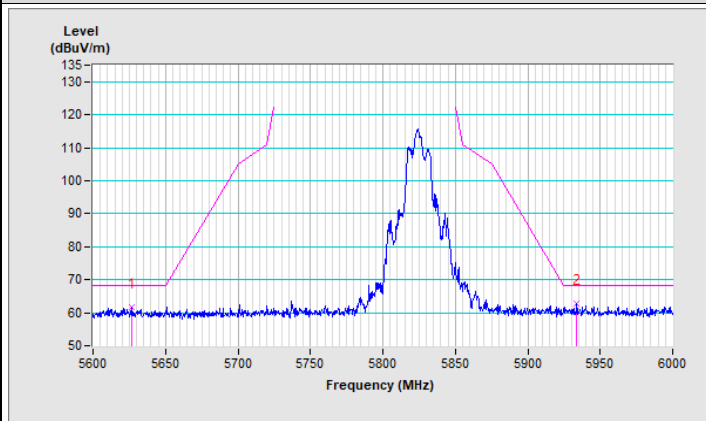


Horizontal (Peak)

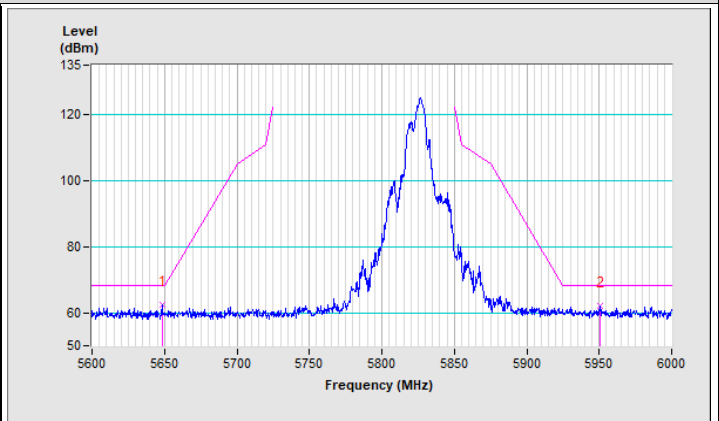


Vertical (Peak)

802.11a Channel 165

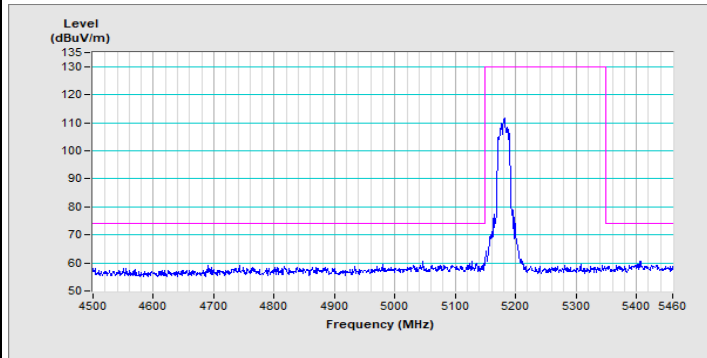


Horizontal (Peak)

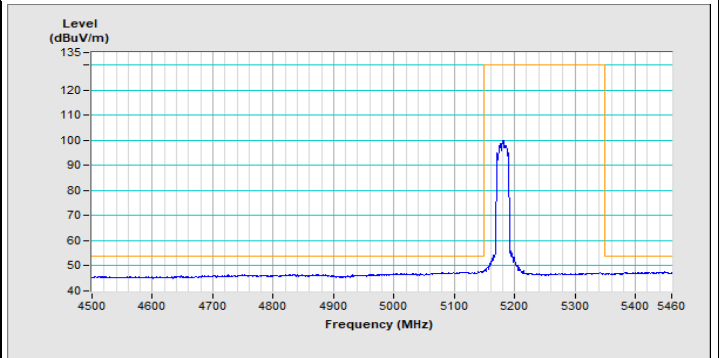


Vertical (Peak)

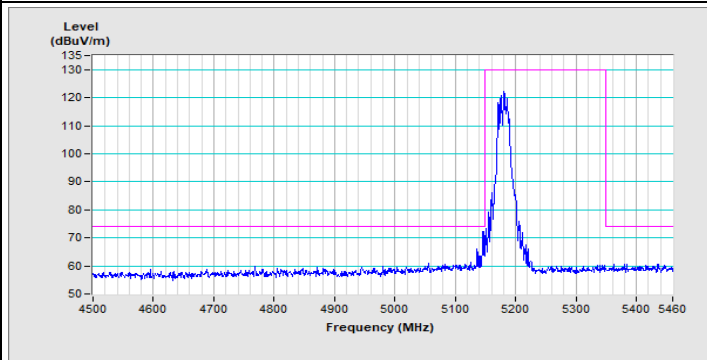
802.11ax (HE20) Channel 36



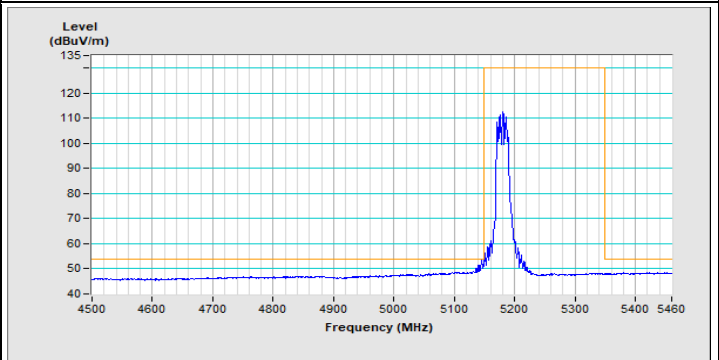
Horizontal (Peak)



Horizontal (Average)

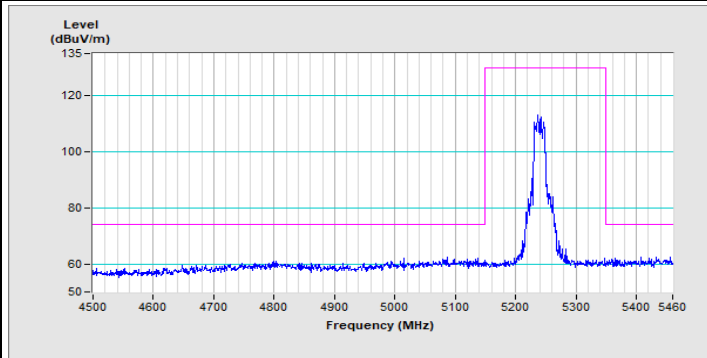


Vertical (Peak)

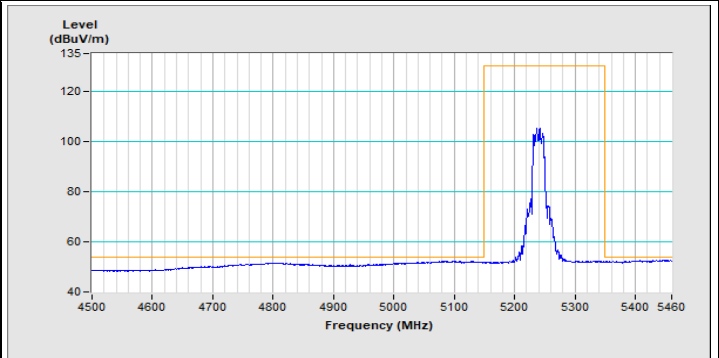


Vertical (Average)

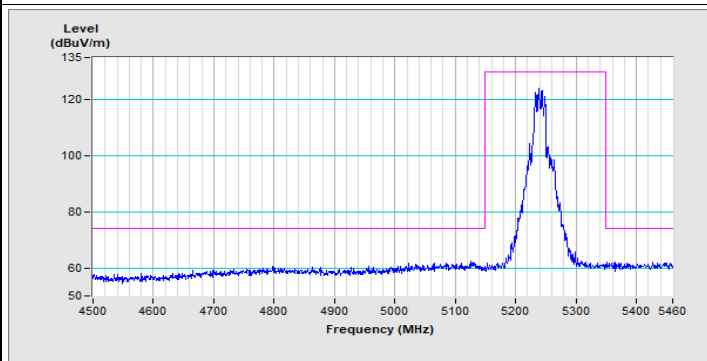
802.11ax (HE20) Channel 48



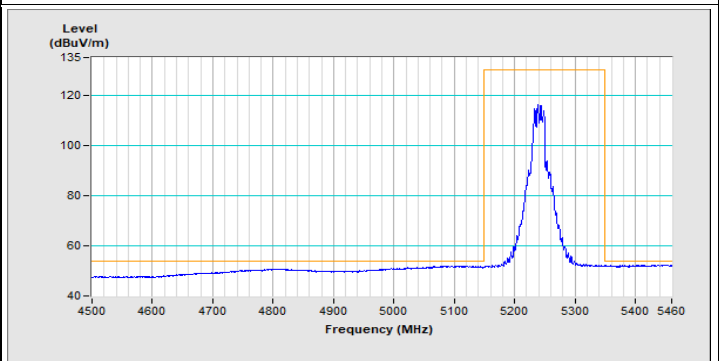
Horizontal (Peak)



Horizontal (Average)

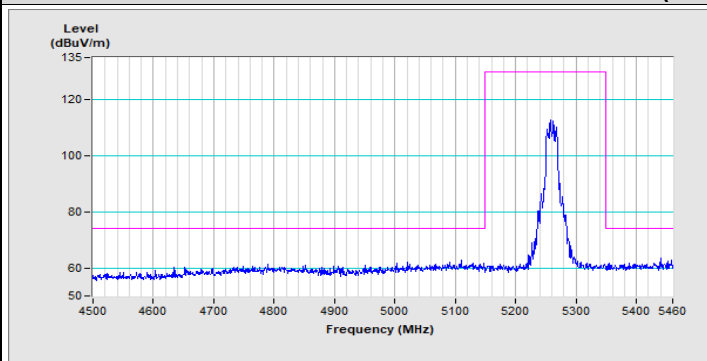


Vertical (Peak)

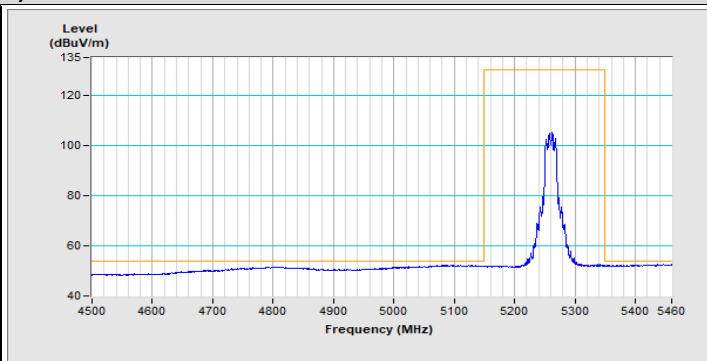


Vertical (Average)

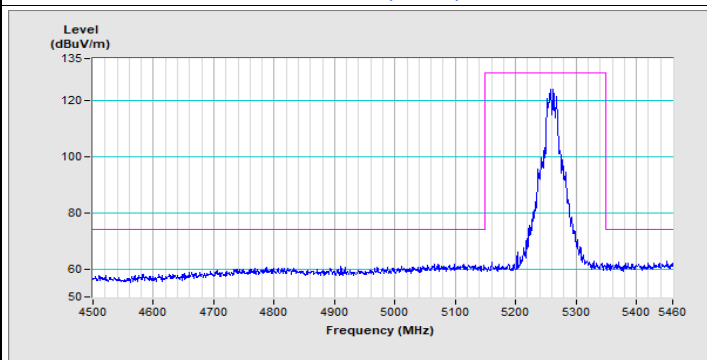
802.11ax (HE20) Channel 52



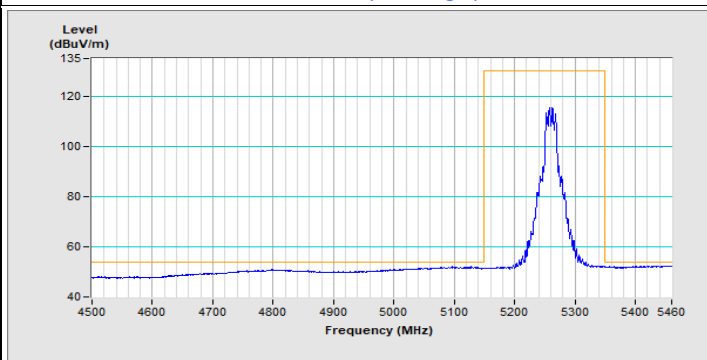
Horizontal (Peak)



Horizontal (Average)

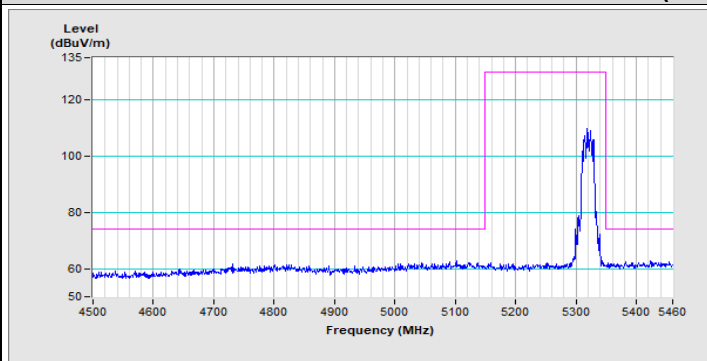


Vertical (Peak)

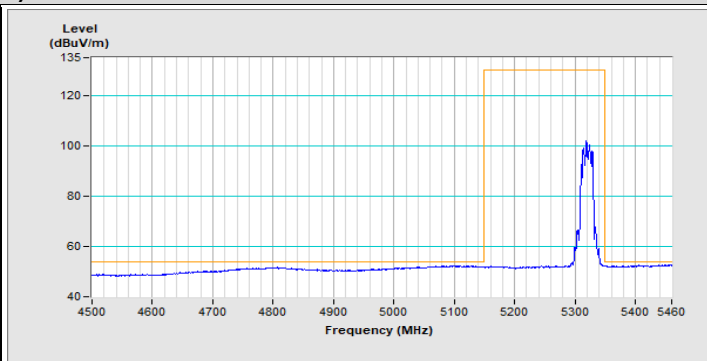


Vertical (Average)

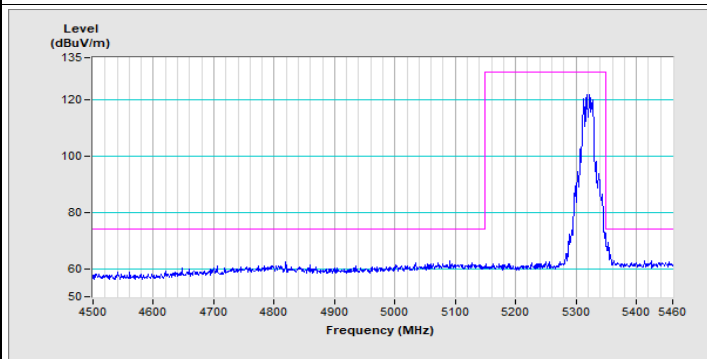
802.11ax (HE20) Channel 64



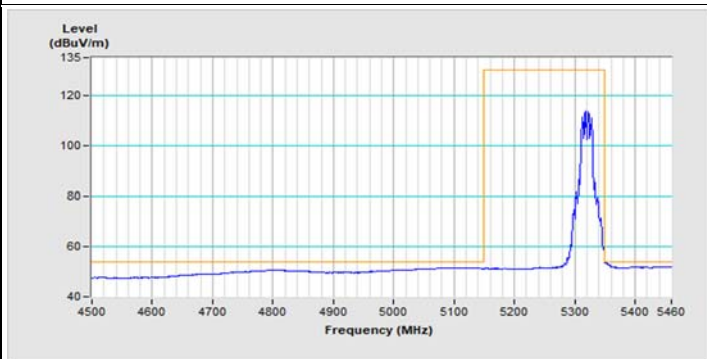
Horizontal (Peak)



Horizontal (Average)

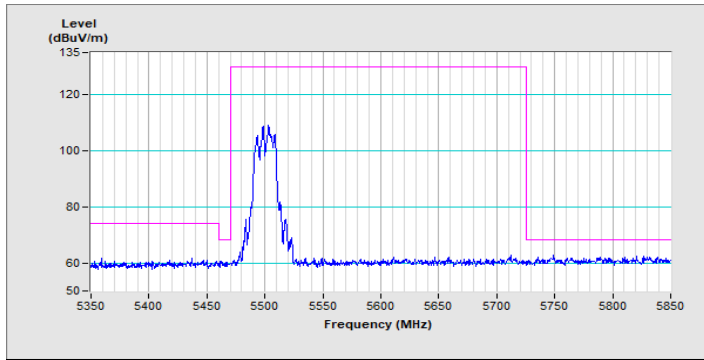


Vertical (Peak)

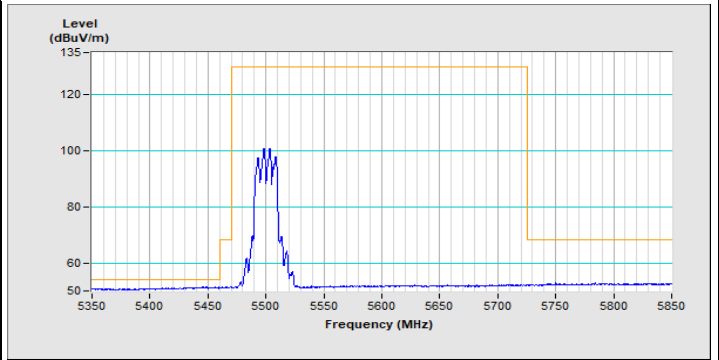


Vertical (Average)

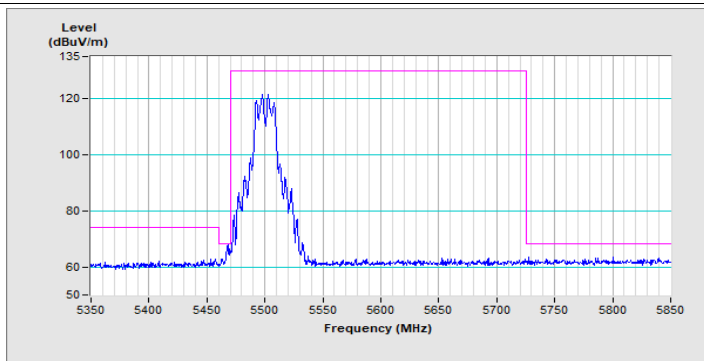
802.11ax (HE20) Channel 100



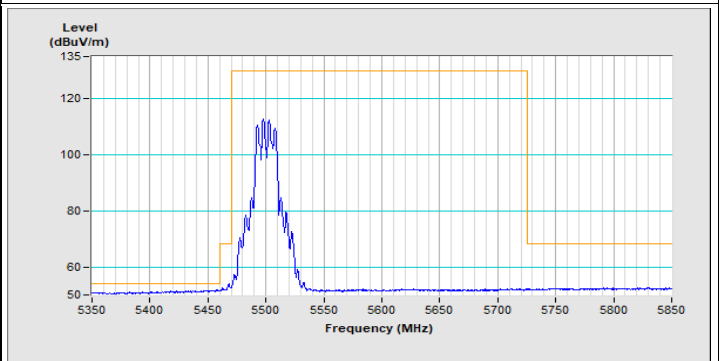
Horizontal (Peak)



Horizontal (Average)

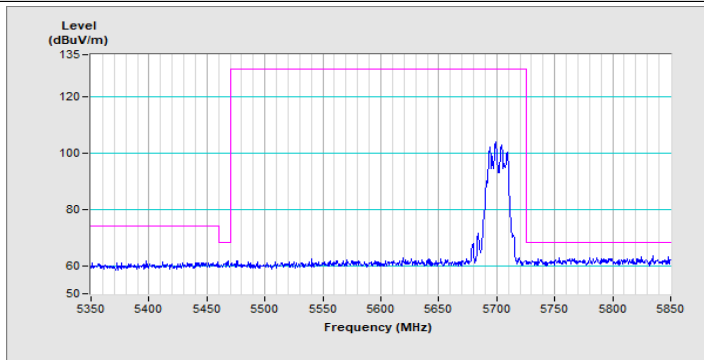


Vertical (Peak)

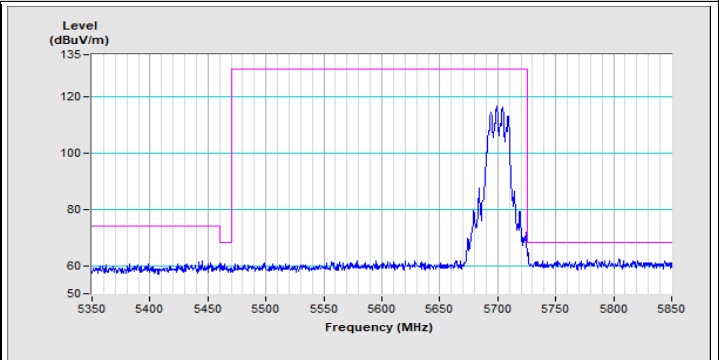


Vertical (Average)

802.11ax (HE20) Channel 140

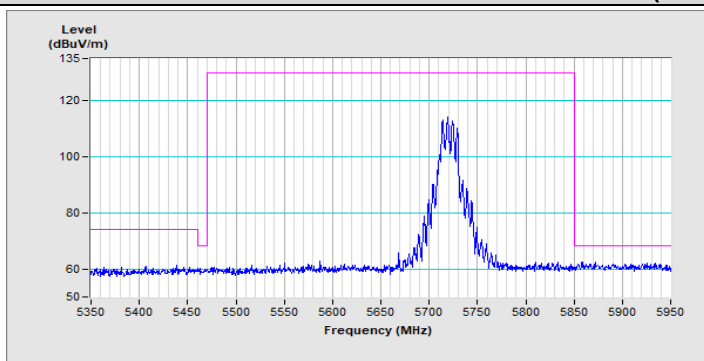


Horizontal (Peak)

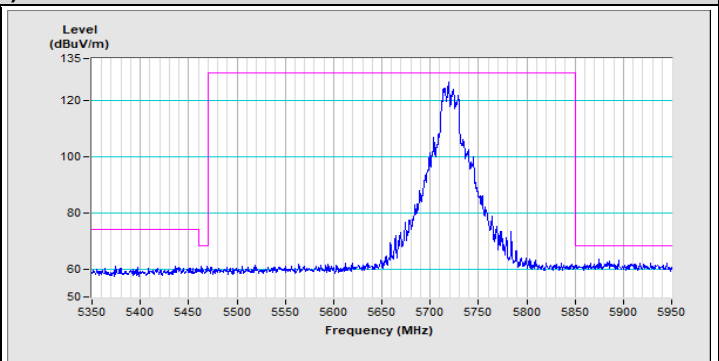


Vertical (Peak)

802.11ax (HE20) Channel 144

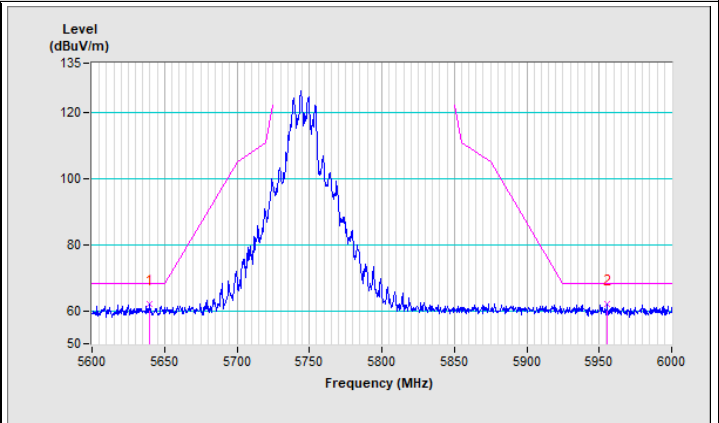
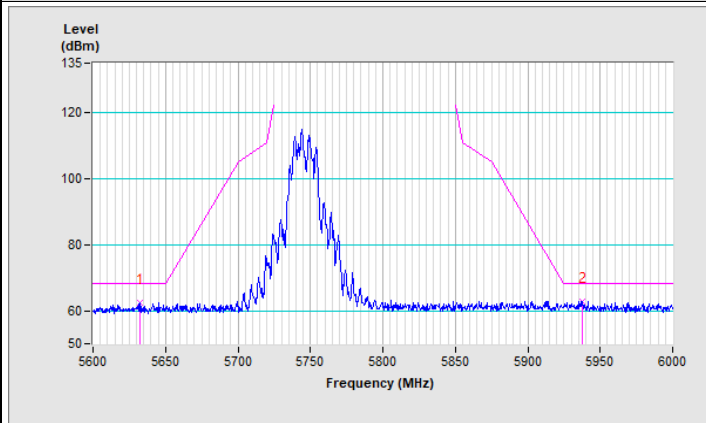


Horizontal (Peak)

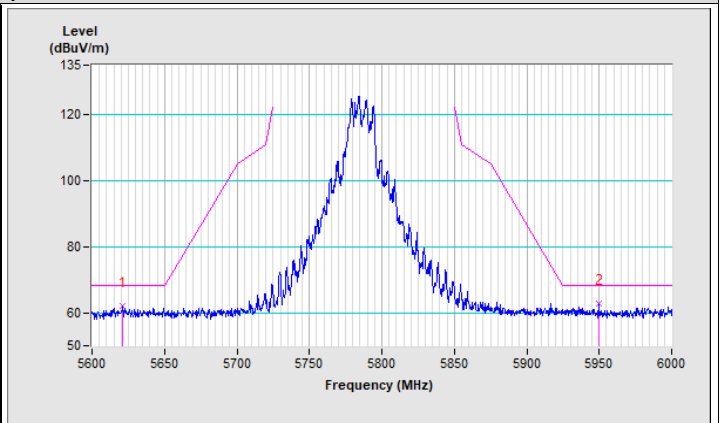
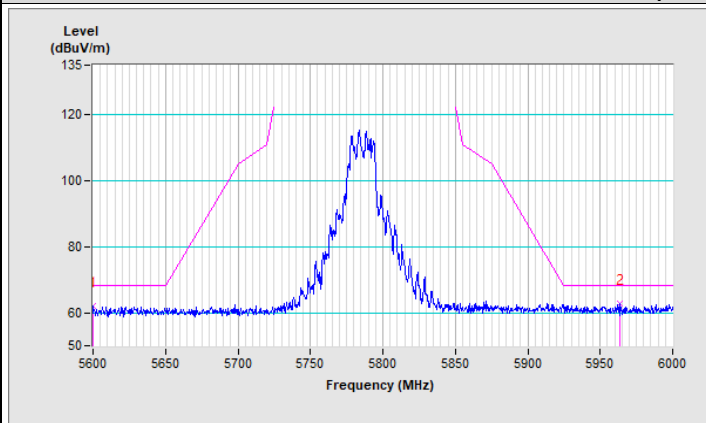


Vertical (Peak)

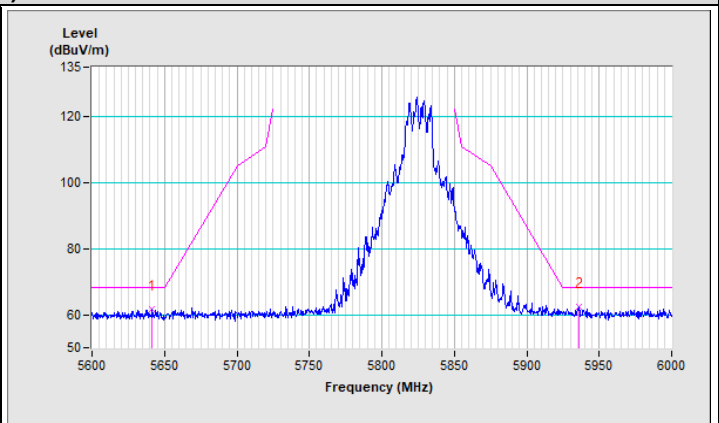
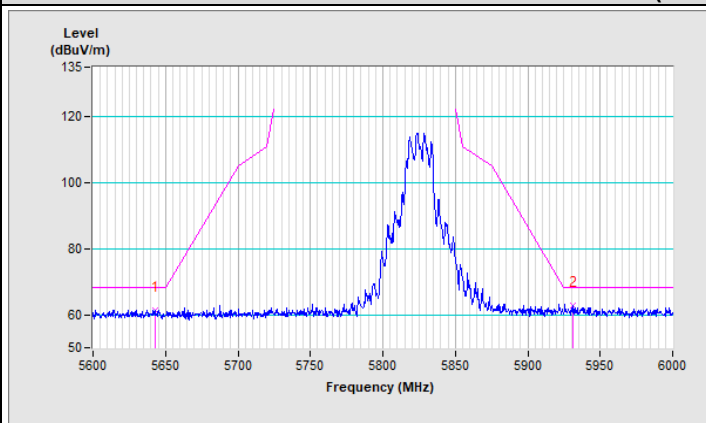
802.11ax (HE20) Channel 149



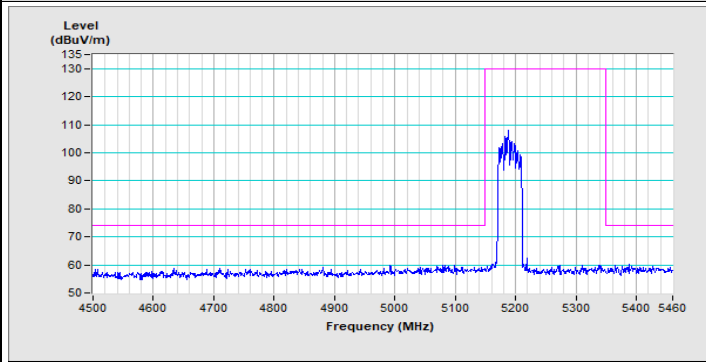
802.11ax (HE20) Channel 157



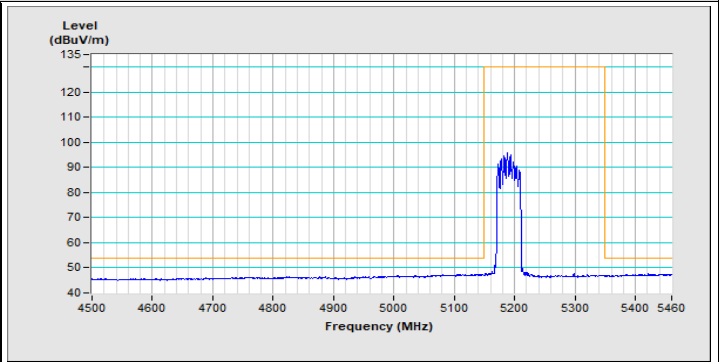
802.11ax (HE20) Channel 165



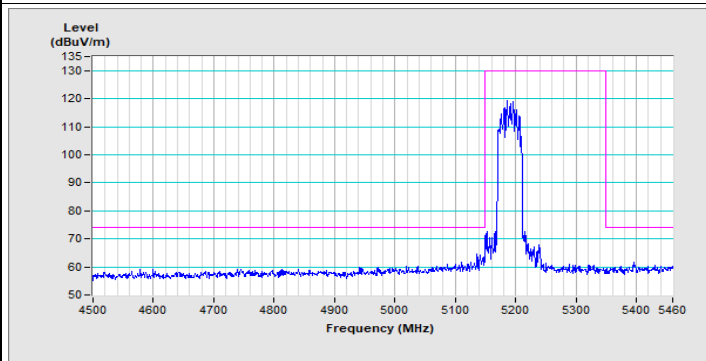
802.11ax (HE40) Channel 38



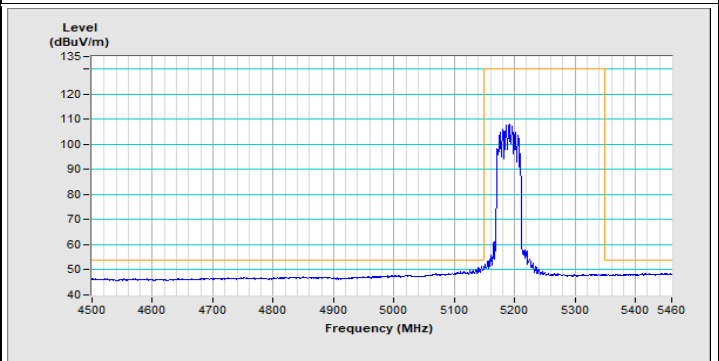
Horizontal (Peak)



Horizontal (Average)

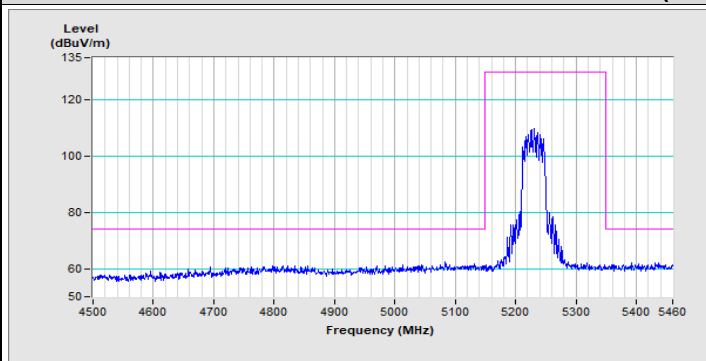


Vertical (Peak)

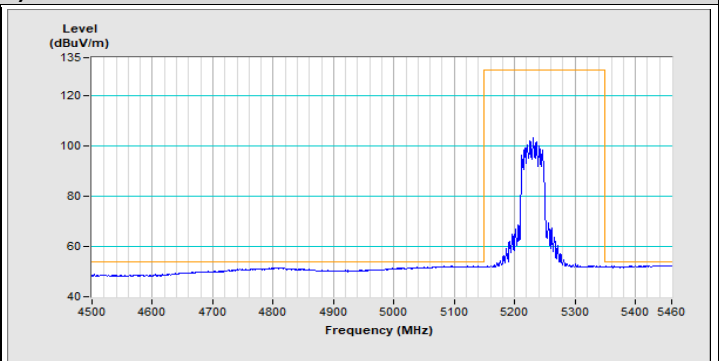


Vertical (Average)

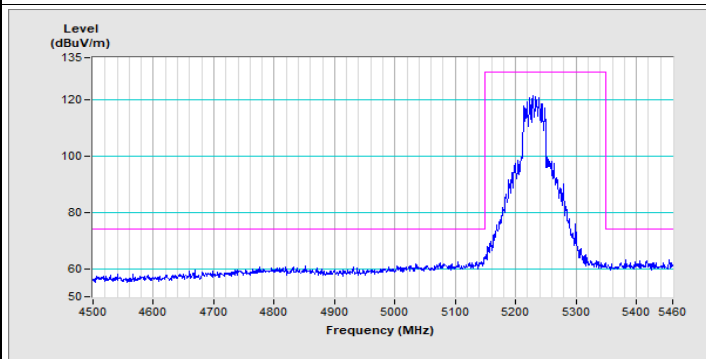
802.11ax (HE40) Channel 46



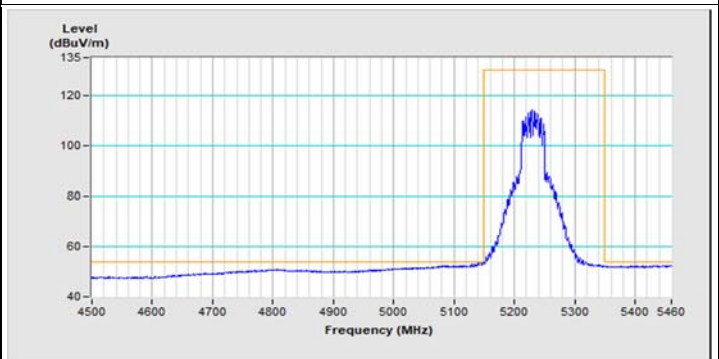
Horizontal (Peak)



Horizontal (Average)

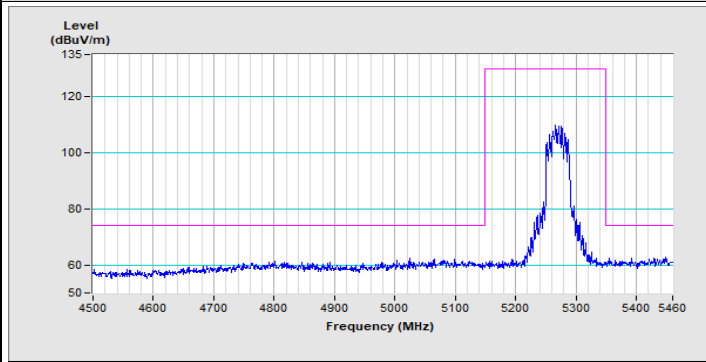


Vertical (Peak)

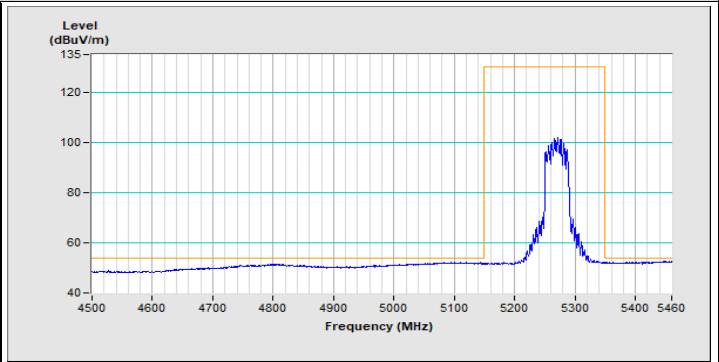


Vertical (Average)

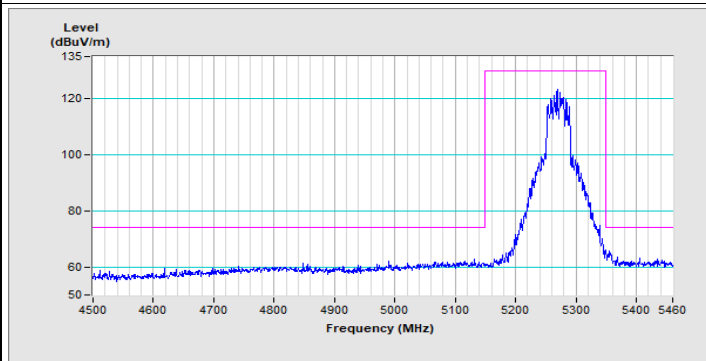
802.11ax (HE40) Channel 54



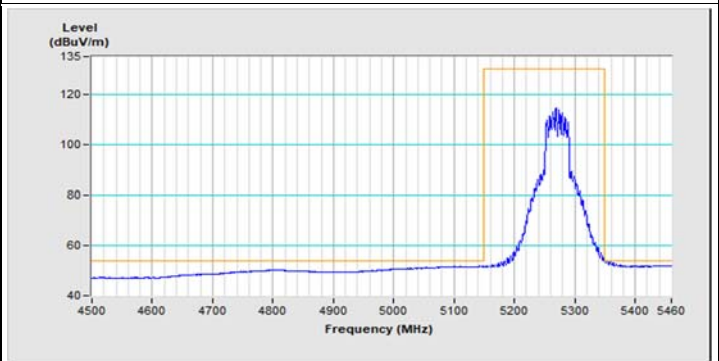
Horizontal (Peak)



Horizontal (Average)

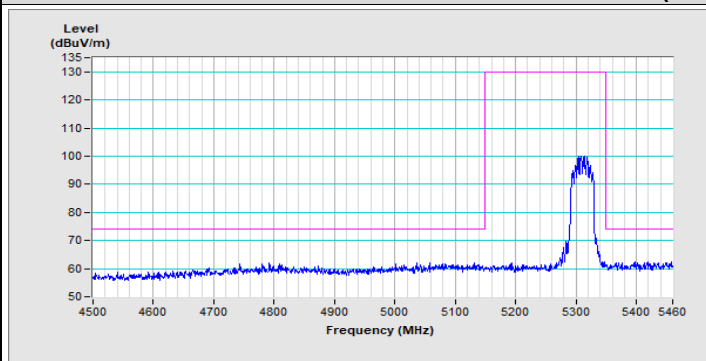


Vertical (Peak)

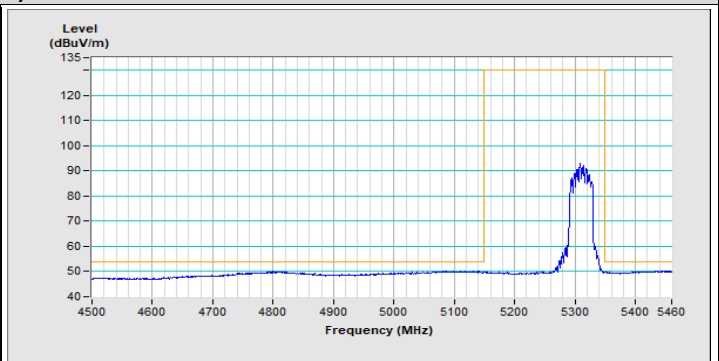


Vertical (Average)

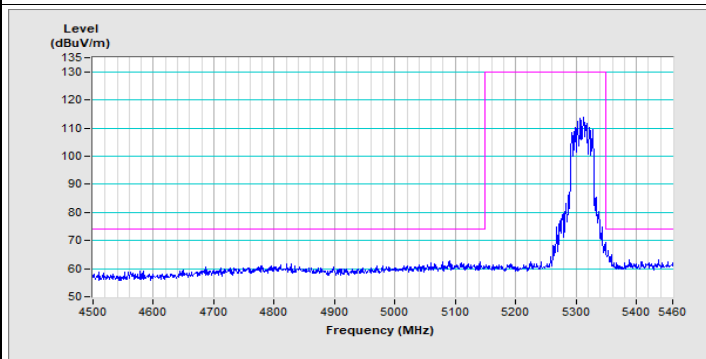
802.11ax (HE40) Channel 62



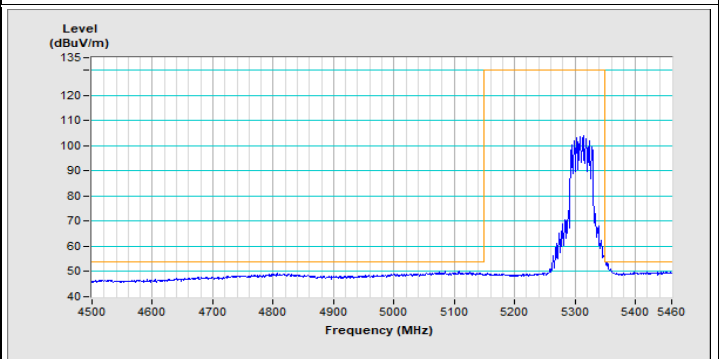
Horizontal (Peak)



Horizontal (Average)

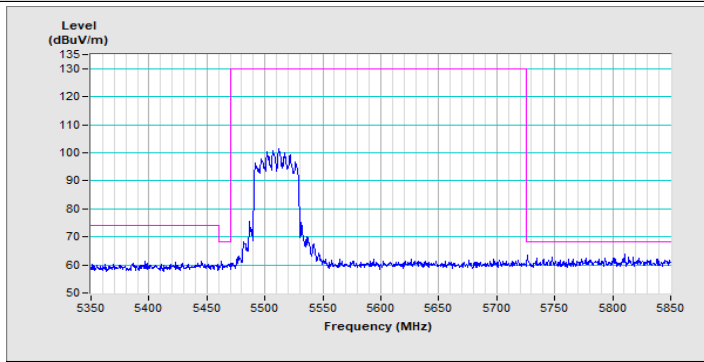


Vertical (Peak)

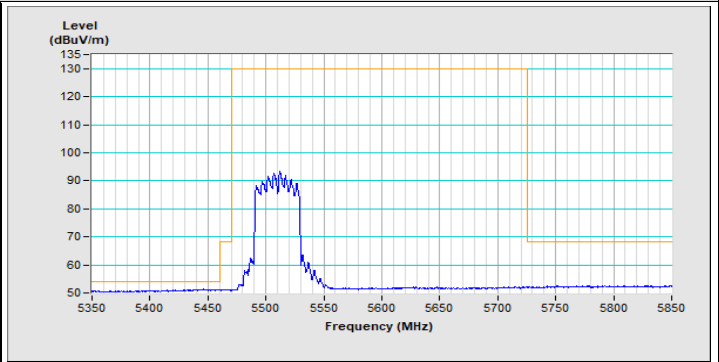


Vertical (Average)

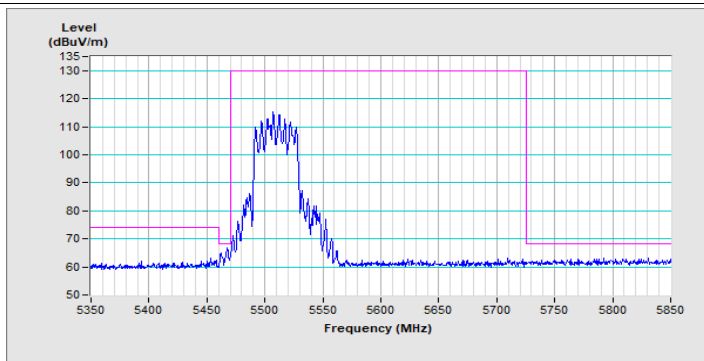
802.11ax (HE40) Channel 102



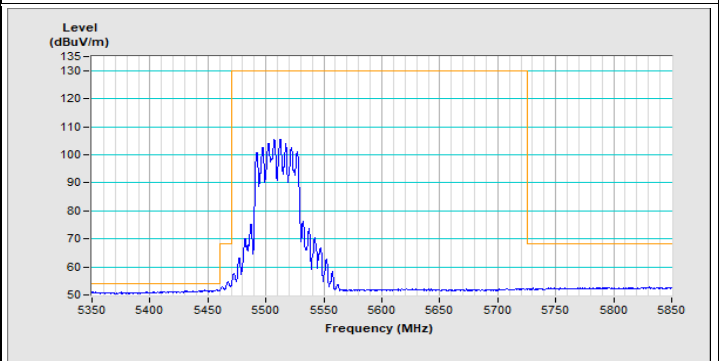
Horizontal (Peak)



Horizontal (Average)

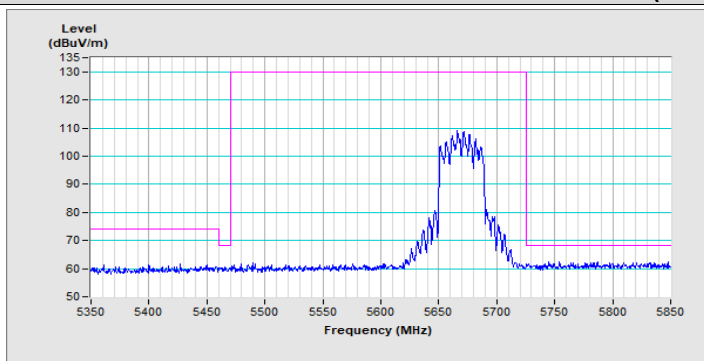


Vertical (Peak)

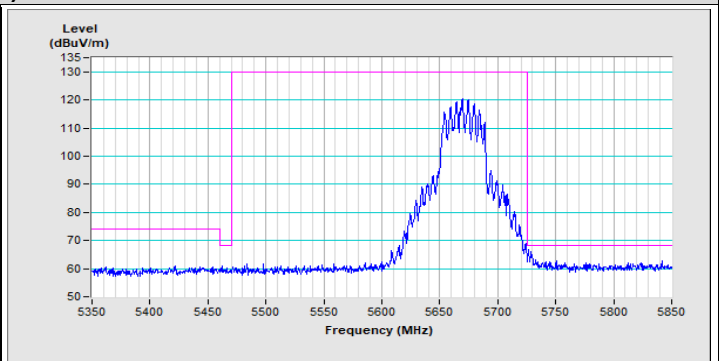


Vertical (Average)

802.11ax (HE40) Channel 134

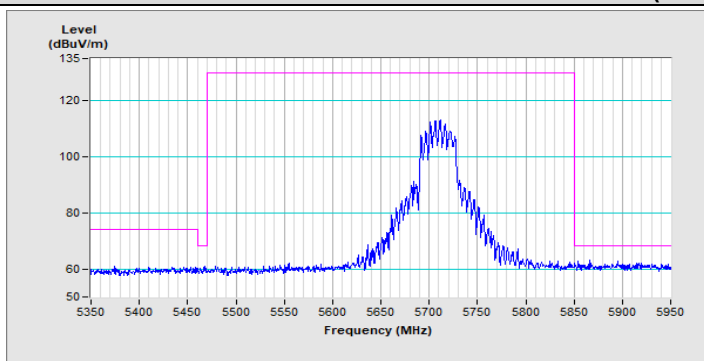


Horizontal (Peak)

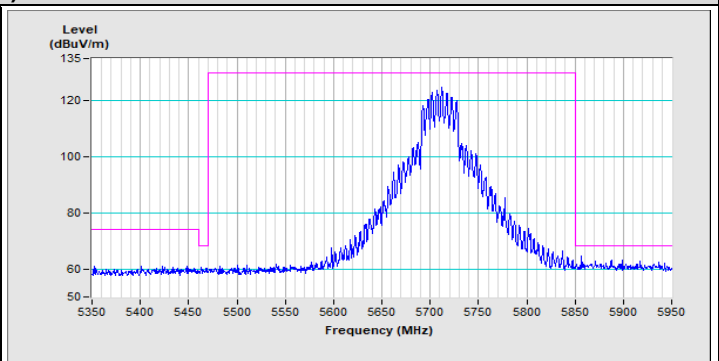


Vertical (Peak)

802.11ax (HE40) Channel 142

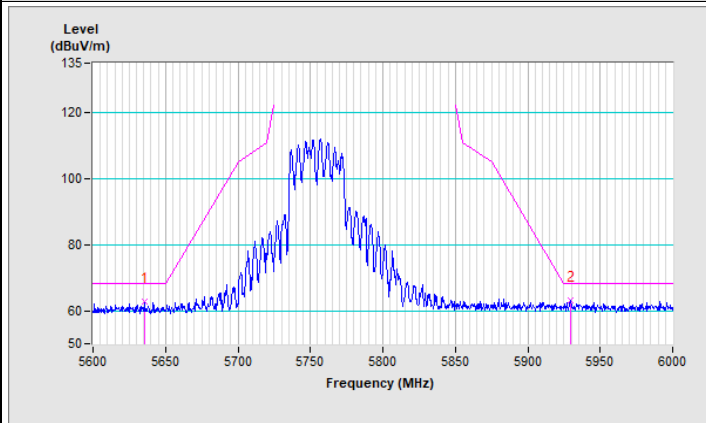


Horizontal (Peak)

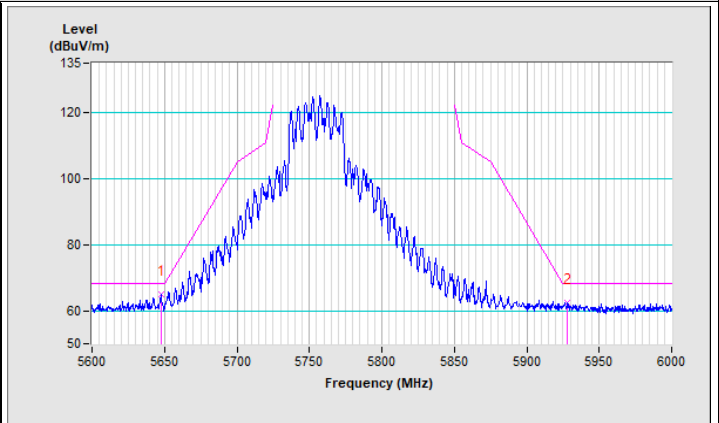


Vertical (Peak)

802.11ax (HE40) Channel 151

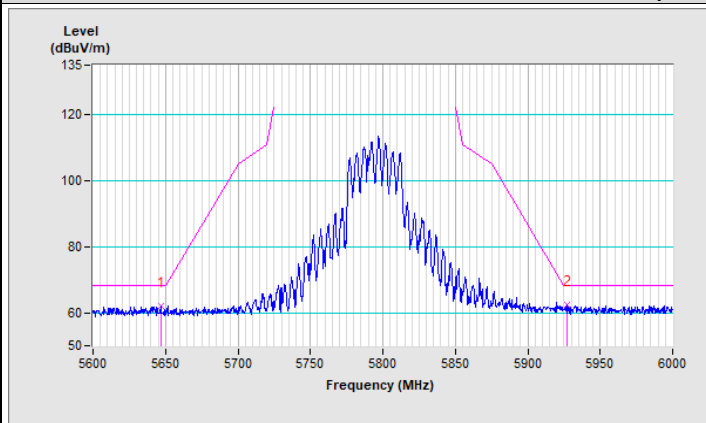


Horizontal (Peak)

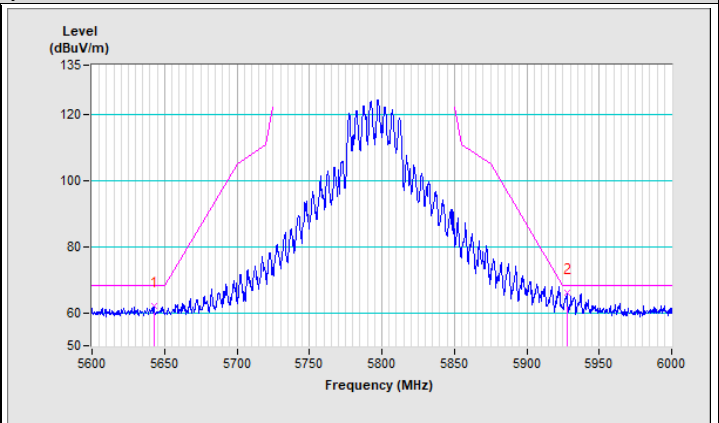


Vertical (Peak)

802.11ax (HE40) Channel 159

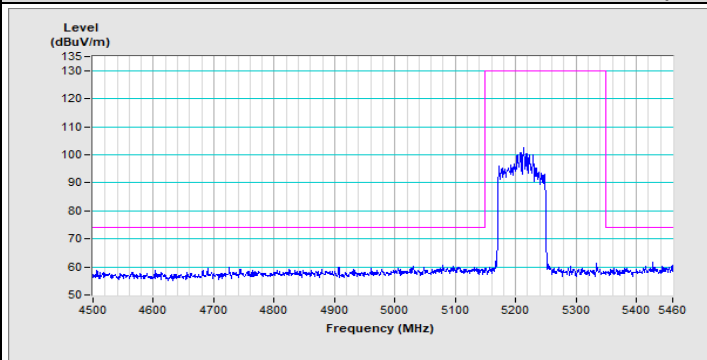


Horizontal (Peak)

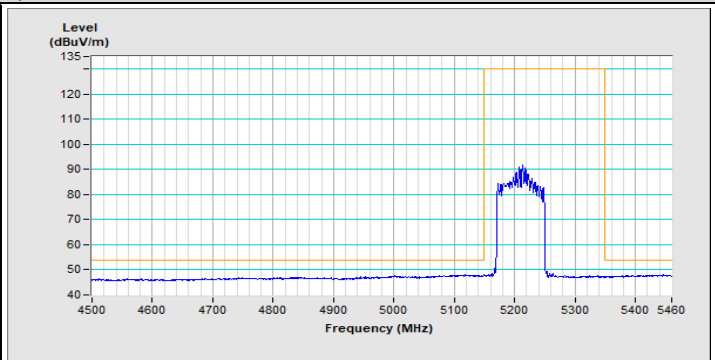


Vertical (Peak)

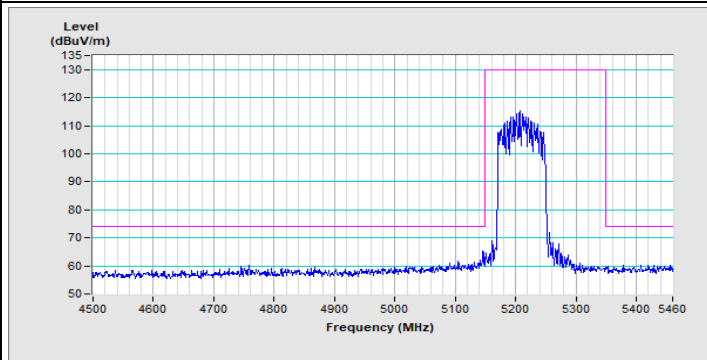
802.11ax (HE80) Channel 42



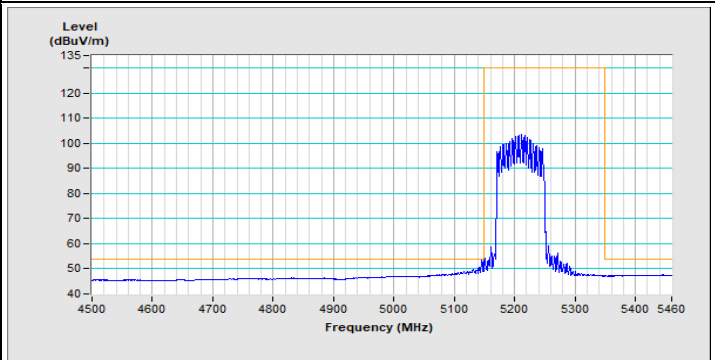
Horizontal (Peak)



Horizontal (Average)

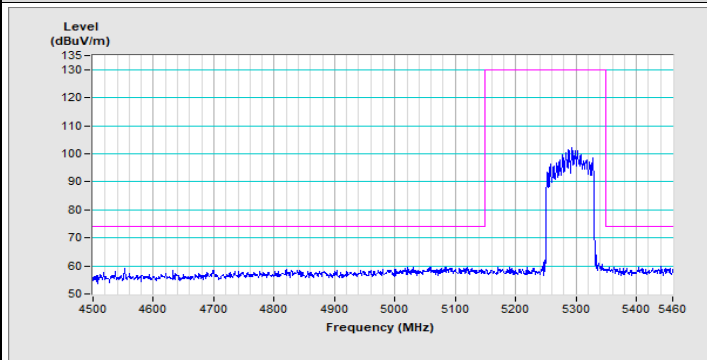


Vertical (Peak)

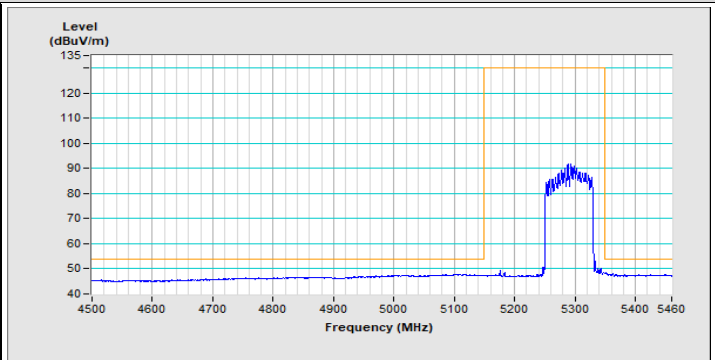


Vertical (Average)

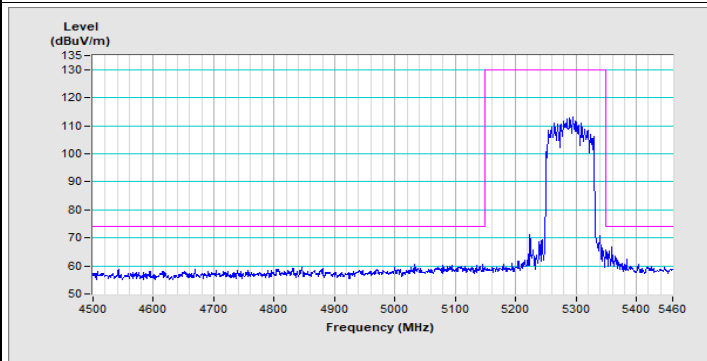
802.11ax (HE80) Channel 58



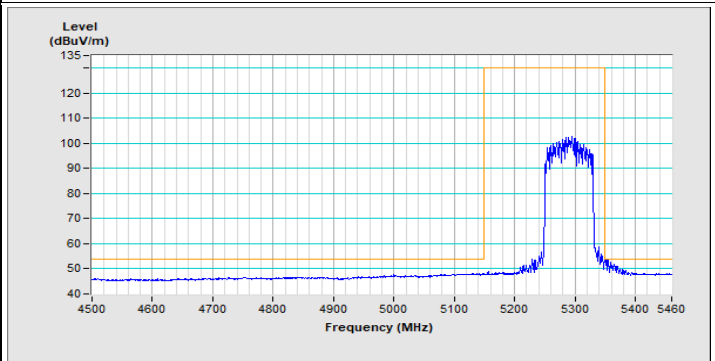
Horizontal (Peak)



Horizontal (Average)

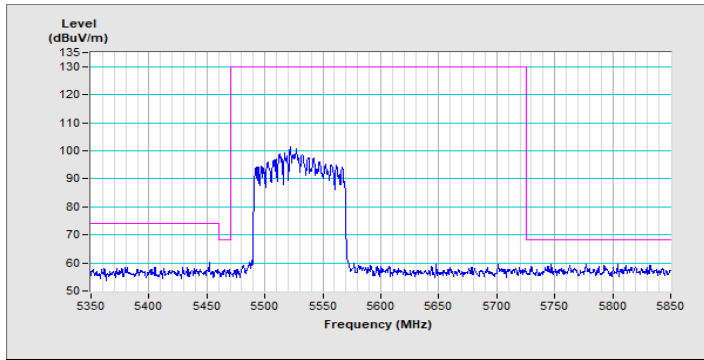


Vertical (Peak)

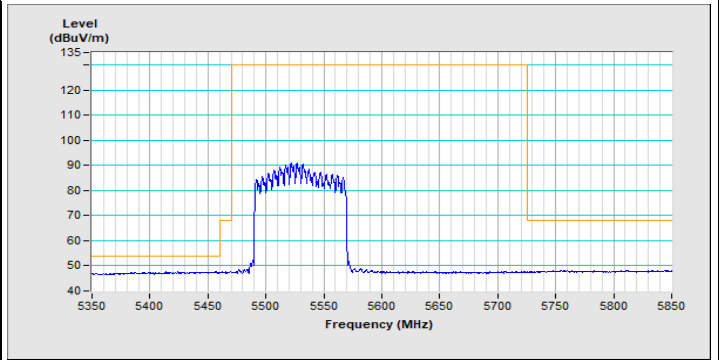


Vertical (Average)

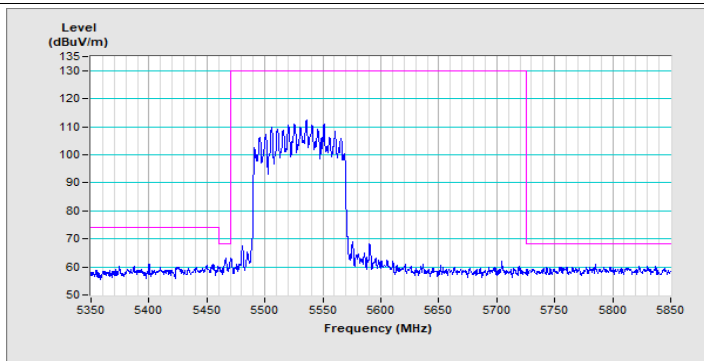
802.11ax (HE80) Channel 106



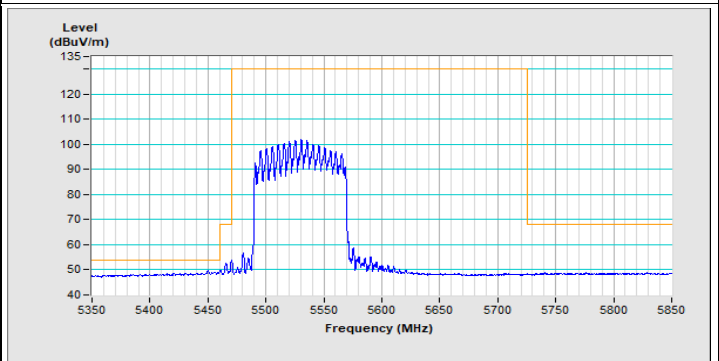
Horizontal (Peak)



Horizontal (Average)

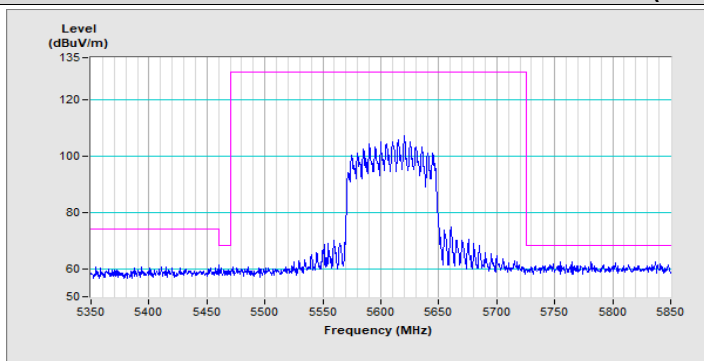


Vertical (Peak)

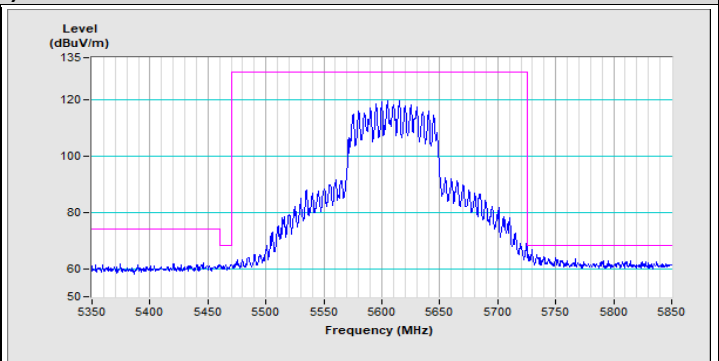


Vertical (Average)

802.11ax (HE80) Channel 122

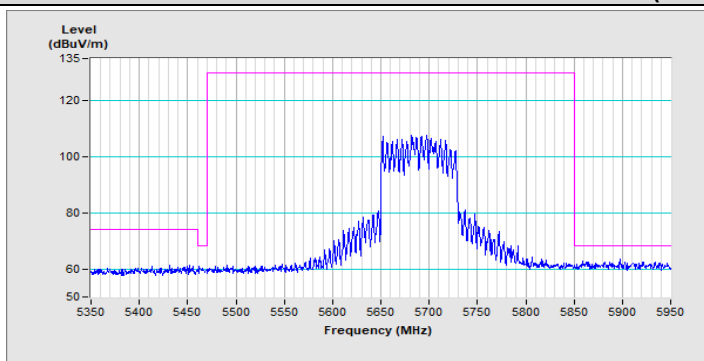


Horizontal (Peak)

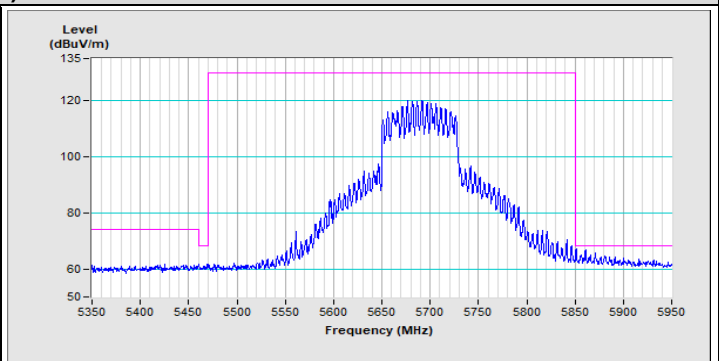


Vertical (Peak)

802.11ax (HE80) Channel 138

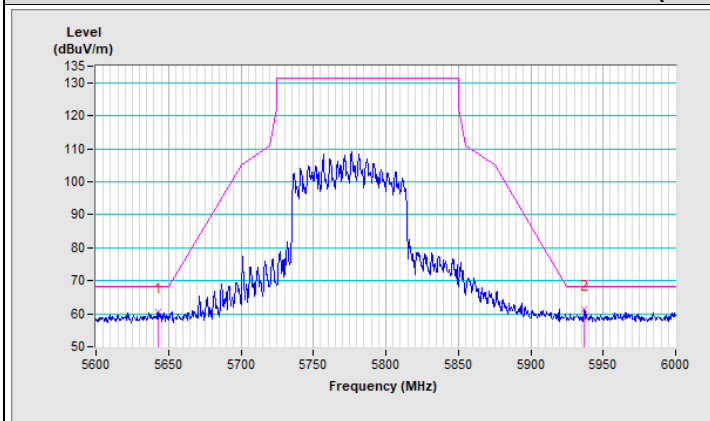


Horizontal (Peak)

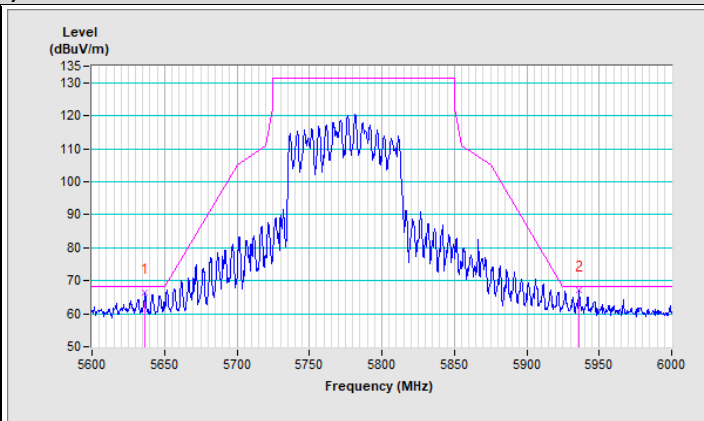


Vertical (Peak)

802.11ax (HE80) Channel 155

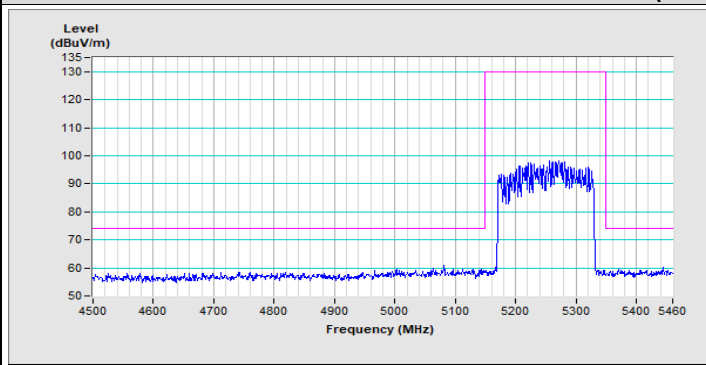


Horizontal (Peak)

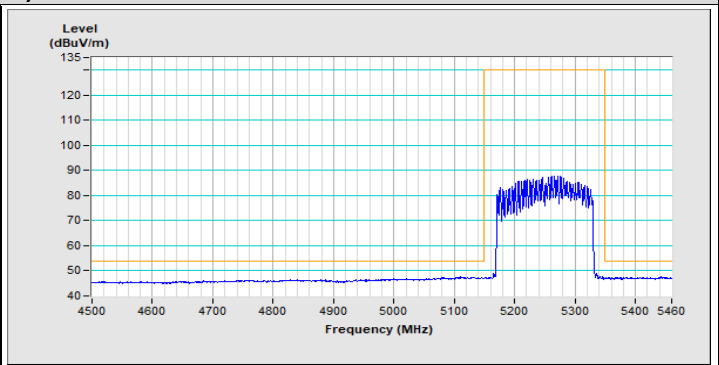


Vertical (Peak)

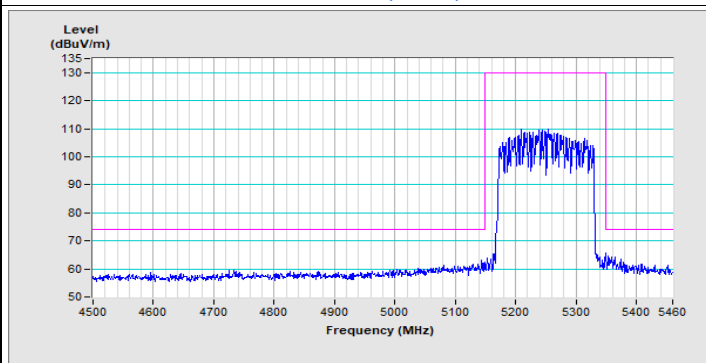
802.11ax (HE160) Channel 50



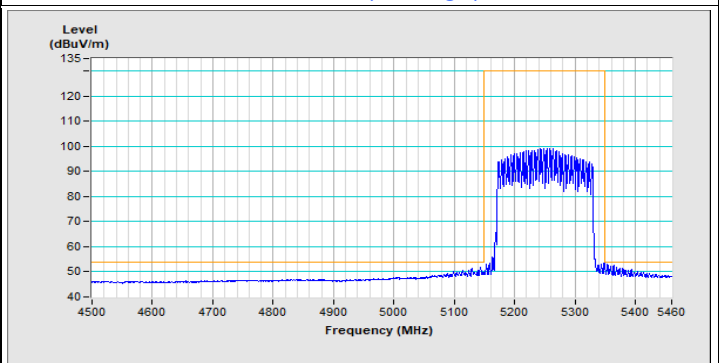
Horizontal (Peak)



Horizontal (Average)

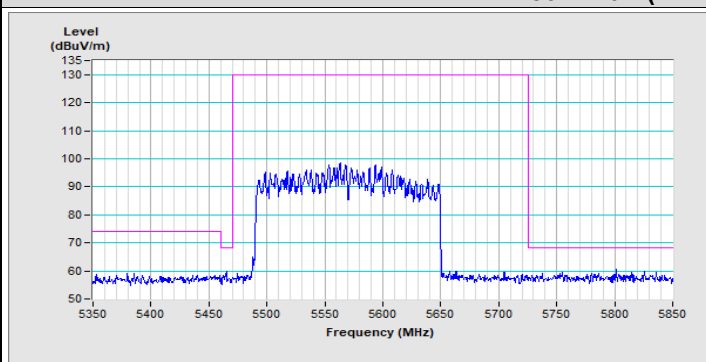


Vertical (Peak)

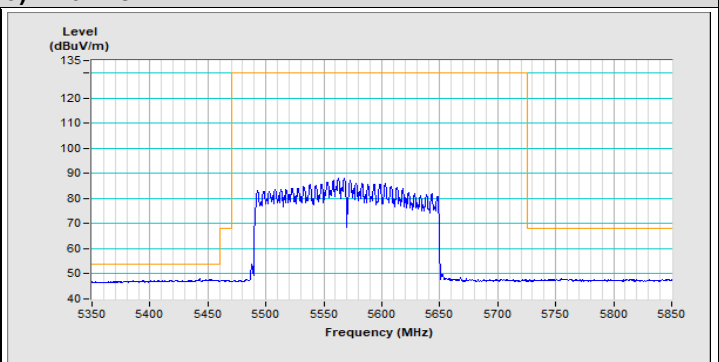


Vertical (Average)

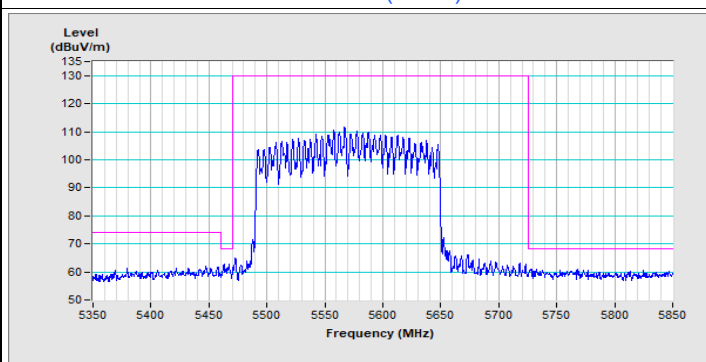
802.11ax (HE160) Channel 114



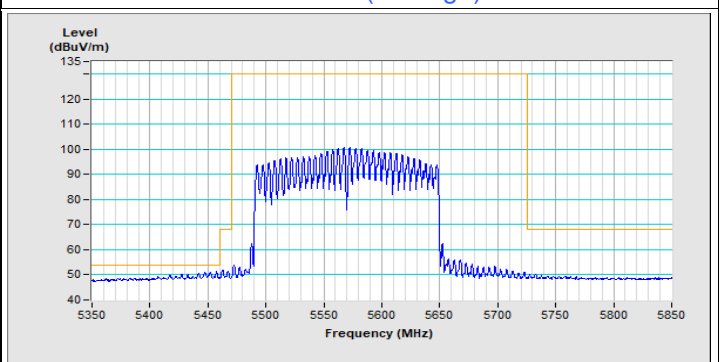
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com

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

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

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