

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBDDZ-WTW-P23100623-3 R1

FCC ID: 2AA3N-ATR01

Product: PELOTON SCREEN

Brand: Peloton

Model No.: PLTN-ATR01

Received Date: 2023/11/20

Test Date: 2023/12/22 ~ 2024/1/21

Issued Date: 2025/3/25

Applicant: Peloton Interactive Inc.

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

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FCC Registration /
Designation Number: 788550 / TW0003

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/3/25

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBDDZ-WTW-P23100623	Original release.	2025/1/15
RFBDDZ-WTW-P23100623 R1	1. Revise product name 2. Revise address of applicant	2025/3/25

1 Certificate

Product: PELOTON SCREEN

Brand: Peloton

Test Model: PLTN-ATR01

Sample Status: Engineering sample

Applicant: Peloton Interactive Inc.

Test Date: 2023/12/22 ~ 2024/1/21

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

Measurement procedure: ANSI C63.10-2013

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -10.59 dB at 0.38600 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.8 dB at 45.52 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 5350.00 and 5351.70 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Parameter	Specification	Uncertainty (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	PELTON SCREEN
Brand	Peloton
Test Model	PLTN-ATR01
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc, 4.17A (Adapter of Peloton Bike)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps 802.11ax: up to 1201.0Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 24 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 11 802.11ac (VHT80), 802.11ax (HE80): 5
Output Power	5.18 GHz ~ 5.24 GHz : 236.961 mW (23.75 dBm) 5.26 GHz ~ 5.32 GHz : 238.731 mW (23.78 dBm) 5.5 GHz ~ 5.7 GHz : 207.285 mW (23.17 dBm) 5.745 GHz ~ 5.825 GHz : 330.718 mW (25.19 dBm)
EUT Category	Client device

Note:

1. The EUT uses following support unit.

Peloton Bike (support unit)		
Brand	Model	Specification
PELTON	PL-21 (PL-31)	Power Rating: 12.0Vdc, 4.17A (Same as adapter)
AC Adapter (support unit)		
Brand	Brand	Specification
FSP	FSP050-A12C801	AC Input Power: 100-240V~1.3A, 50~60Hz DC Output Power: 12.0V = 4.17A 50.0W

2. For Power:

For U-NII-1, Directional gain is maximum gain = 2.47 dBi

For U-NII-2A, Directional gain is maximum gain = 2.47 dBi

For U-NII-2C, Directional gain is maximum gain = 2.41 dBi

For U-NII-3, Directional gain is maximum gain = 2.39 dBi

For Power Spectral Density:

For U-NII-1, the directional gain is $10 \log[(10^{2.13/20} + 10^{2.47/20})^2 / 2] = 5.31 \text{ dBi}$

For U-NII-2A, the directional gain is $10 \log[(10^{2.13/20} + 10^{2.47/20})^2 / 2] = 5.31 \text{ dBi}$

For U-NII-2C, the directional gain is $10 \log[(10^{1.37/20} + 10^{2.41/20})^2 / 2] = 4.92 \text{ dBi}$

For U-NII-3, the directional gain is $10 \log[(10^{2.13/20} + 10^{2.39/20})^2 / 2] = 5.27 \text{ dBi}$

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.

Chain No.	Gain (dBi)			Antenna Type	Connector Type
	5180 MHz	5500MHz	5850MHz		
0	2.13	1.37	2.13	Dipole	ipex(MHF)
1	2.47	2.41	2.39	Dipole	ipex(MHF)

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

2. The EUT incorporates a MIMO (CDD) function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz) therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5700 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	The EUT is designed to be positioned on the Z-axis only.

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

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

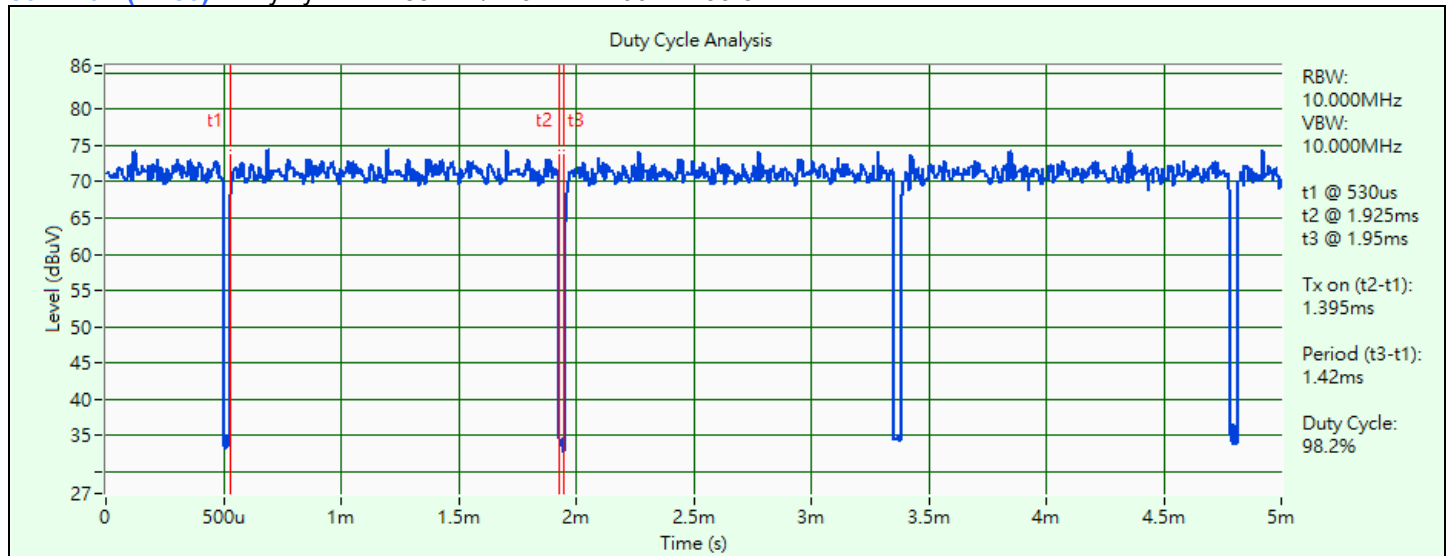
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.395 ms / 1.42 ms x 100% = 98.2%

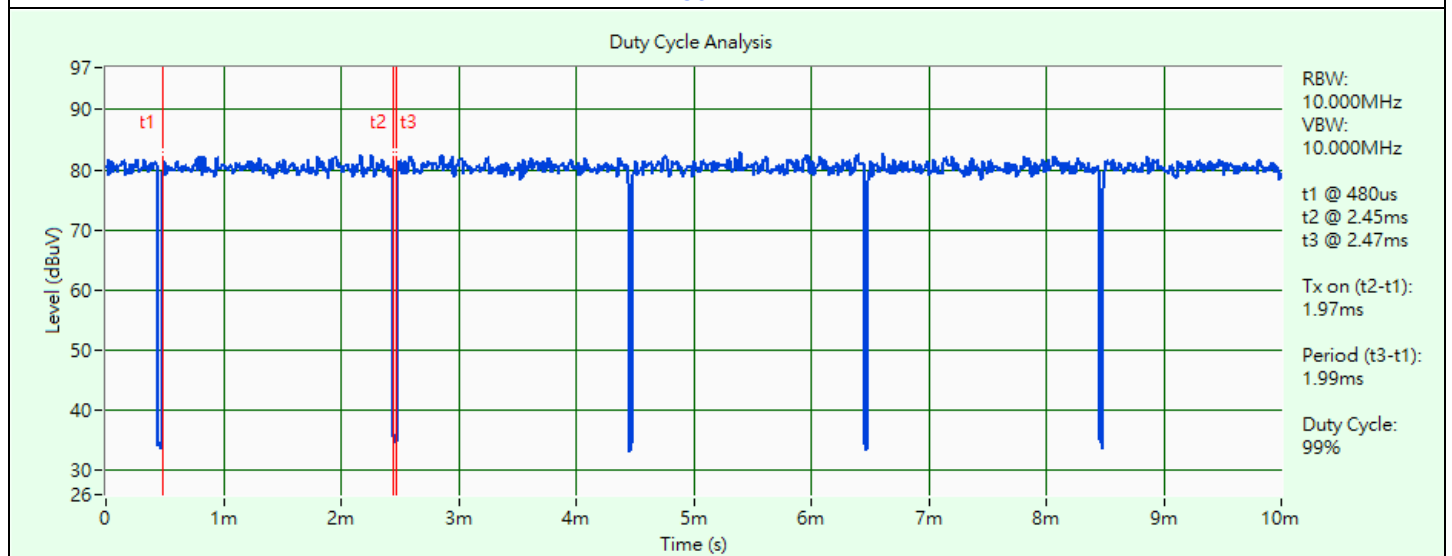
802.11ax (HE20): Duty cycle = 1.97 ms / 1.99 ms x 100% = 99.0%

802.11ax (HE40): Duty cycle = 3.862 ms / 3.9 ms x 100% = 99.0%

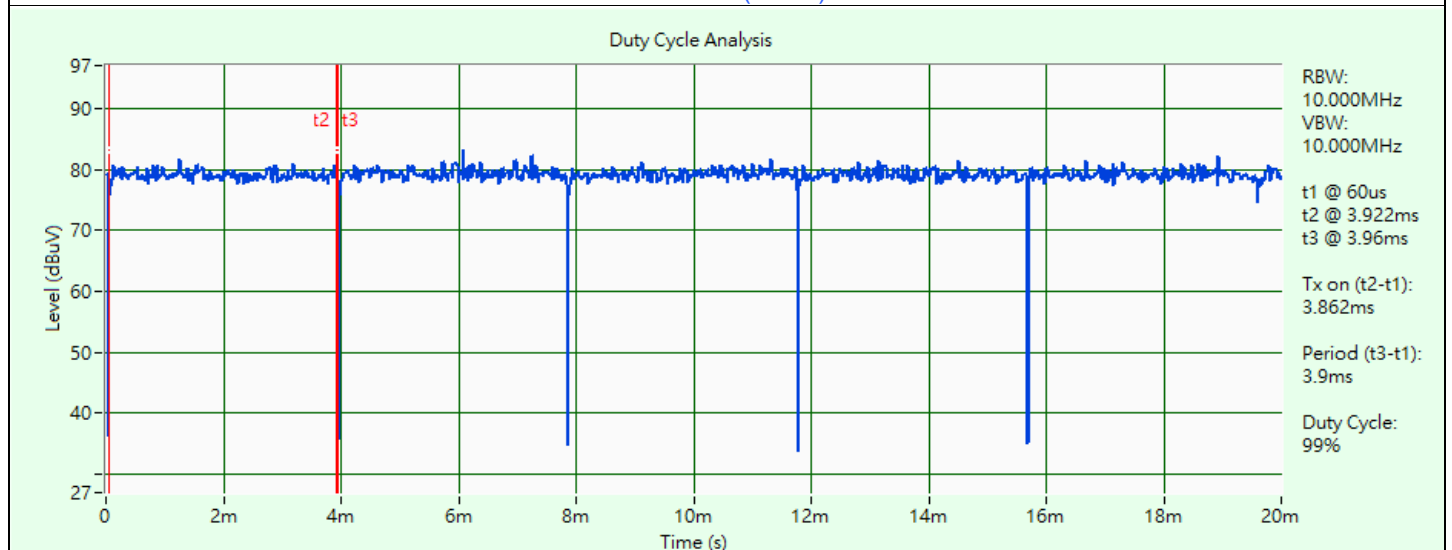
802.11ax (HE80): Duty cycle = 1.89 ms / 1.9 ms x 100% = 99.5%



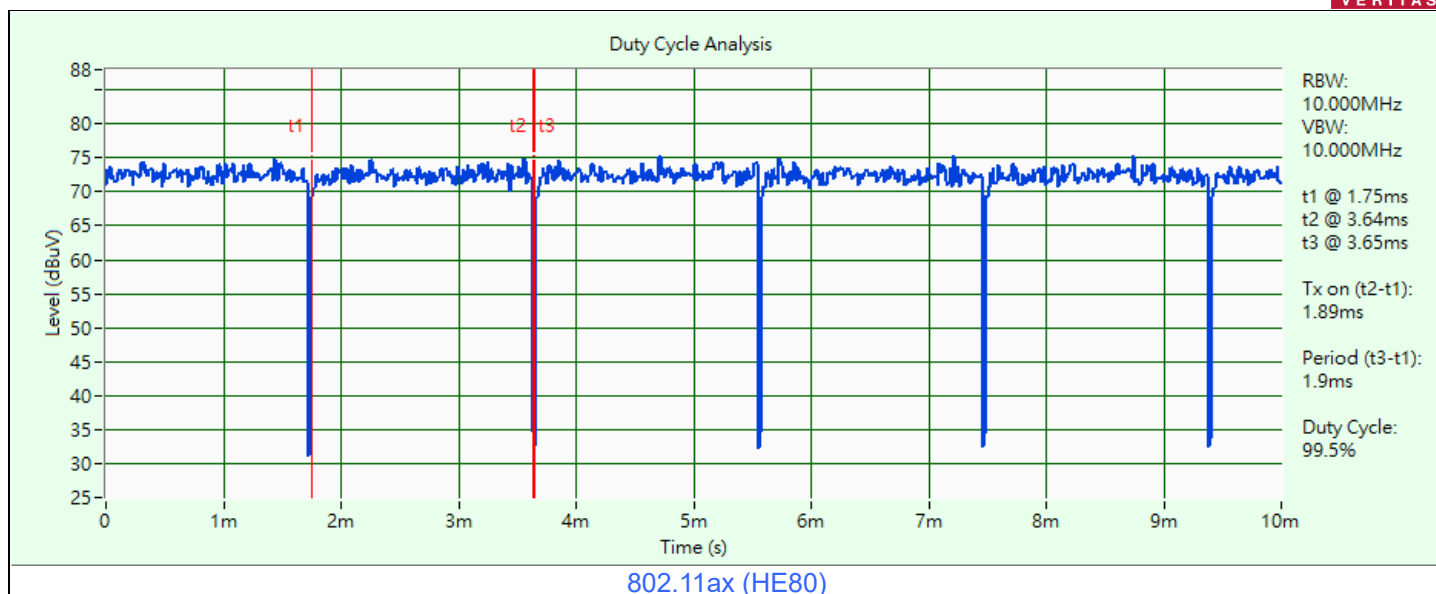
802.11a



802.11ax (HE20)



802.11ax (HE40)

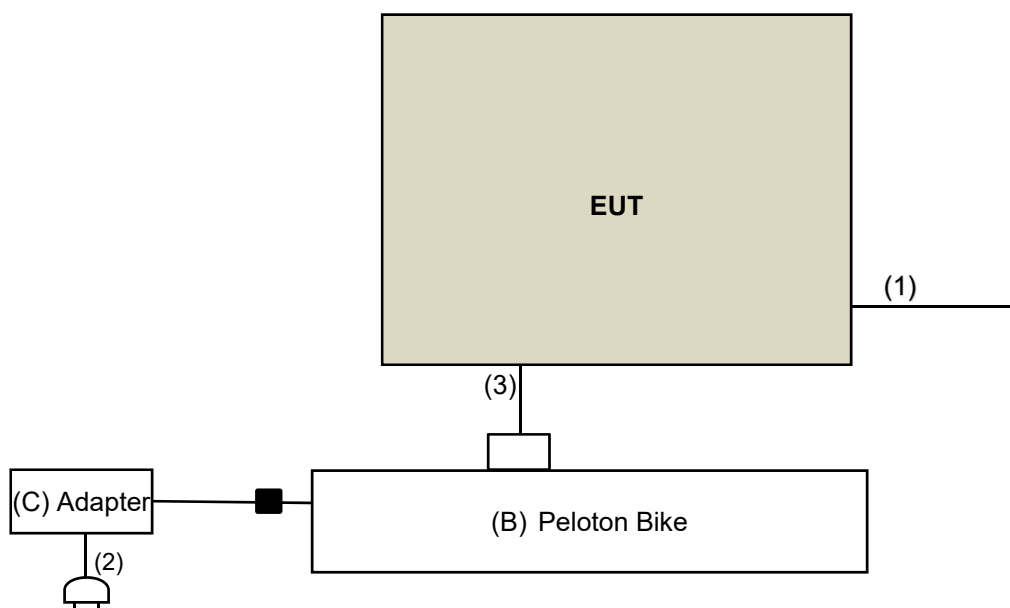


3.6 Test Program Used and Operation Descriptions

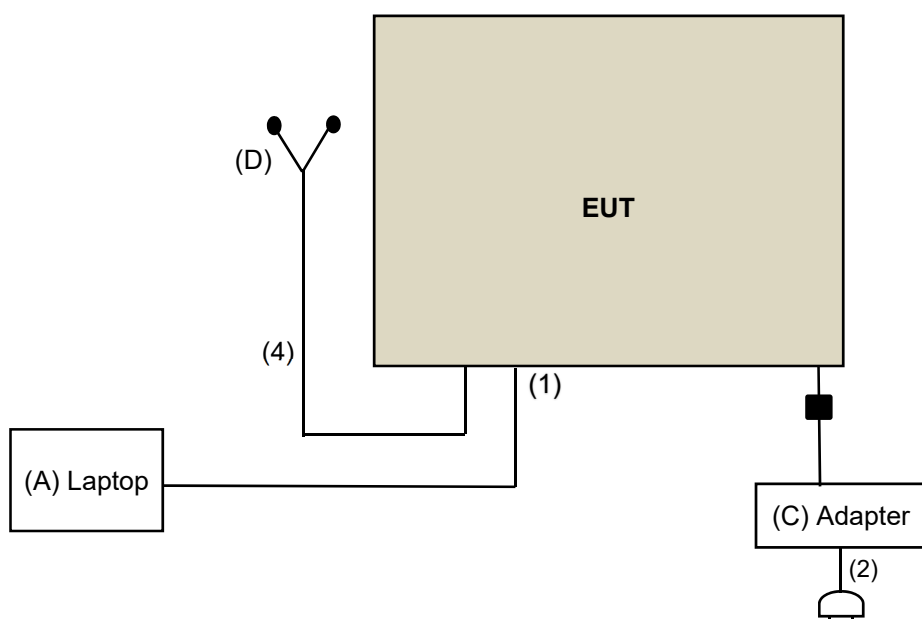
Controlling software adb 4.2.2 command has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

AC Power Conducted Emissions & Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	X260 4G	PC0ECUAT	N/A	Provided by Lab
B	Peloton Bike	PELTON	PL-21 (PL-31)	N/A	N/A	Supplied by applicant
C	Adapter	FSP	FSP050-A12C801	N/A	N/A	Supplied by applicant
D	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C Cable	1	1	N	0	Provided by Lab
2	AC Cable	1	1.8	N	0	Supplied by applicant
3	I/O Cable	1	1	Y	0	Supplied by applicant
4	Earphone	1	1.6	N	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/21

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	2023/7/19	2024/7/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/21

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 Supply JIN YIH Technology	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2023/7/6	2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/21

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2023/2/1	2024/1/31
	E1-011312	10	2023/1/30	2024/1/29
	E1-011591	17	2023/2/1	2024/1/31
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESR3	102783	2023/12/13	2024/12/12
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2024/1/17

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2023/10/17	2024/10/16
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier Agilent	8447D	2944A10638	2023/5/7	2024/5/6
Preamplifier EMCI	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2023/5/7	2024/5/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2023/12/29	2024/12/28
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2024/1/17

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2023/11/12	2024/11/11
	BBHA 9170	9170-480	2023/11/12	2024/11/11
		BBHA9170243	2023/11/12	2024/11/11
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter Micro-Tronics	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
			2023/12/25	2024/12/24
Preamplifier Agilent	8449B	3008A02367	2023/2/15	2024/2/14
			2024/1/6	2025/1/5
Preamplifier EMCI	EMC 184045	980116	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
			2024/1/6	2025/1/5
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
			2024/1/6	2025/1/5
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
			2023/12/29	2024/12/28
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/12/22 ~ 2024/1/8

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.

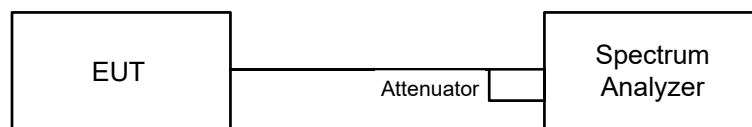
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

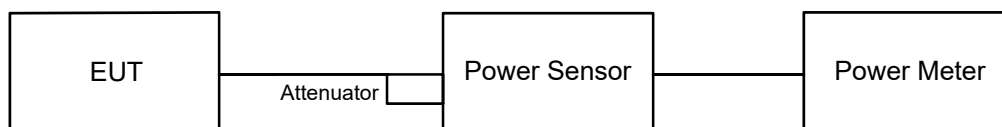


6.1.2 Test Procedure

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

6.2 RF Output Power

6.2.1 Test Setup

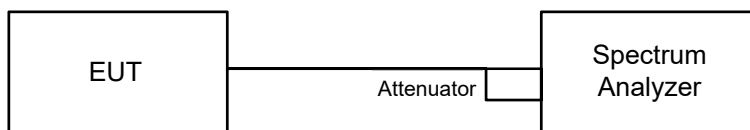


6.2.2 Test Procedure

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

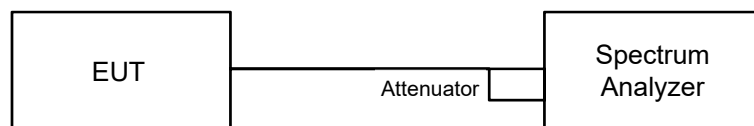
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

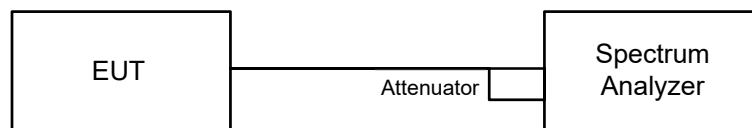


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

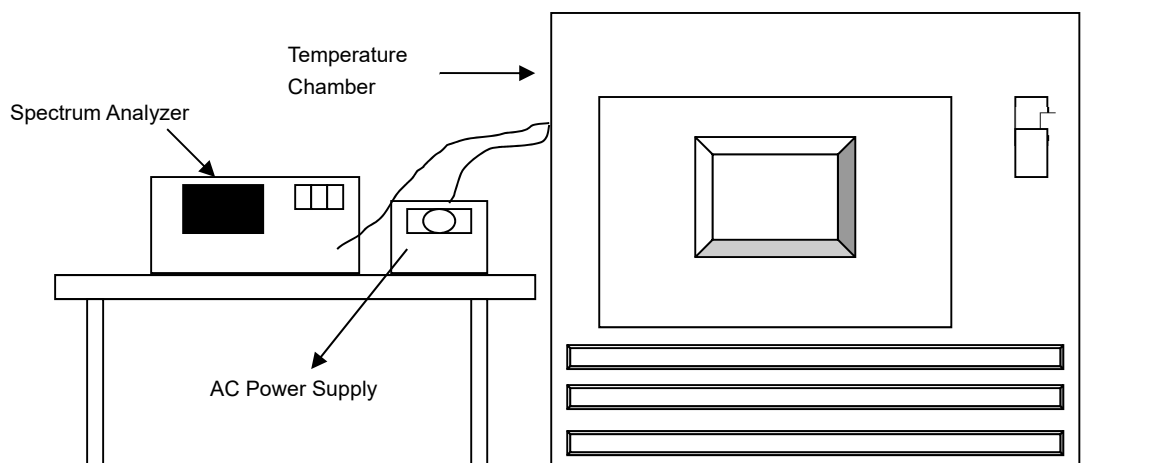


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

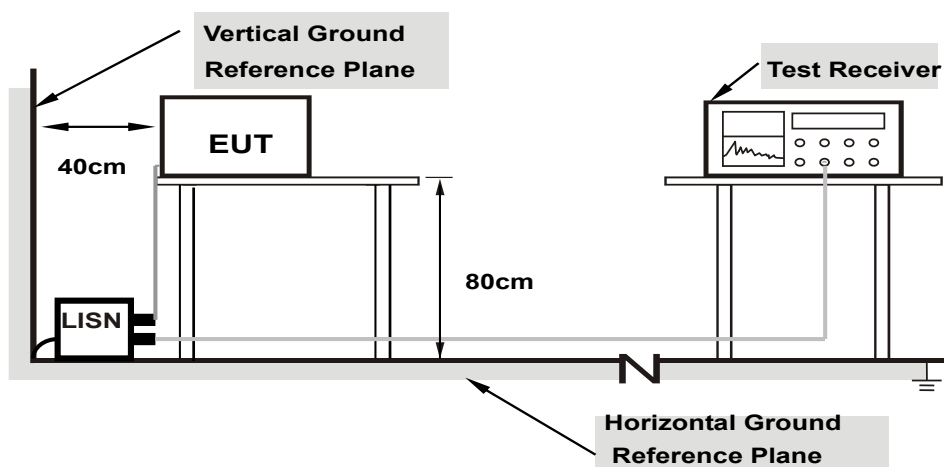


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal 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

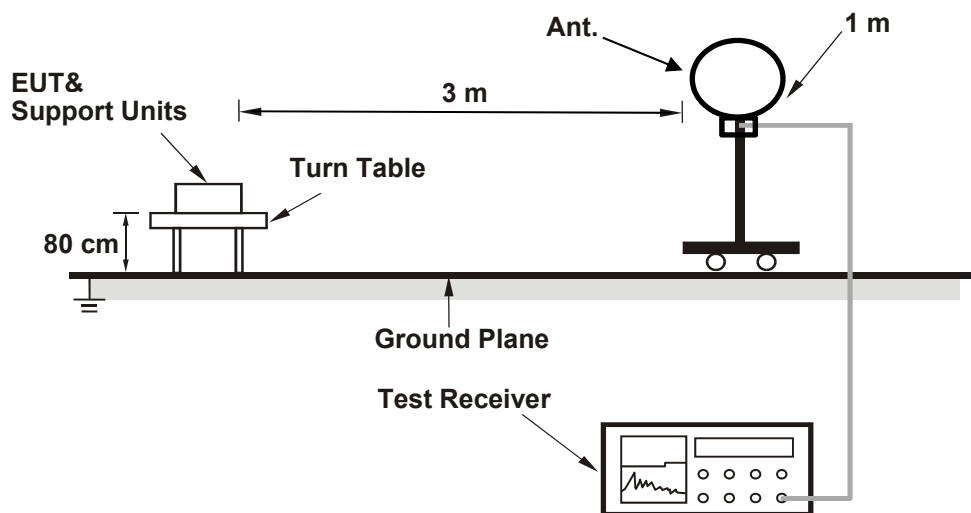
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

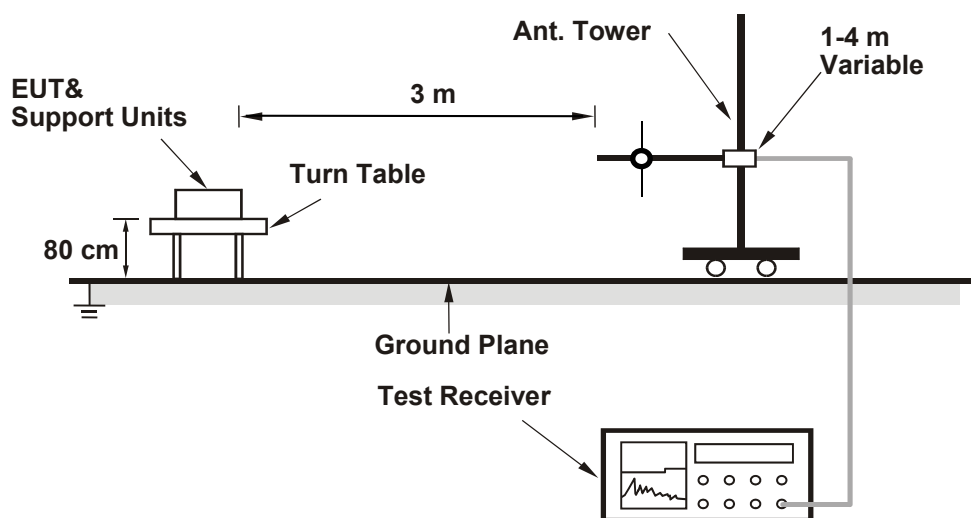
6.8 Unwanted Emissions below 1 GHz

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

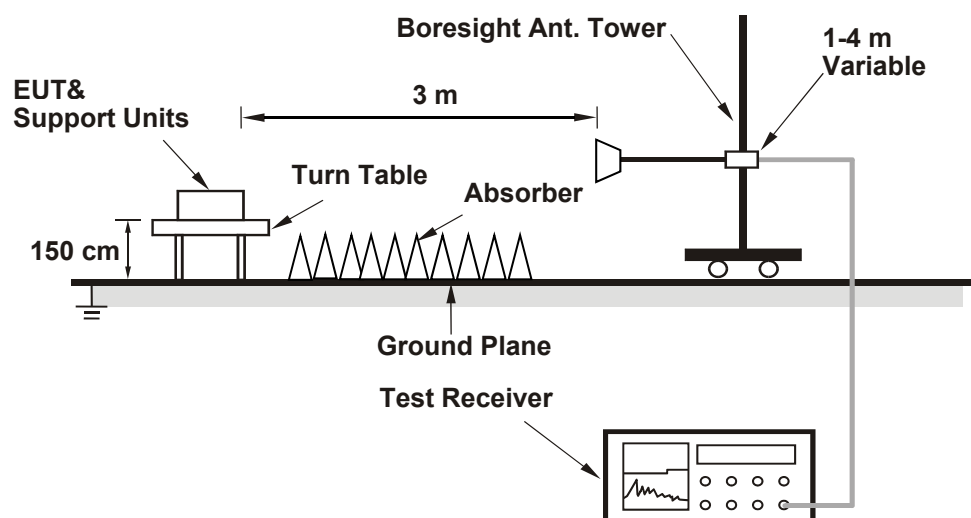
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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:	Frank Liu
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	28.72	26.77
60	5300	29.41	24.39
64	5320	23.55	23.26
100	5500	24.71	24.72
116	5580	41.60	27.07
140	5700	24.34	24.40

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	26.77	25.27 > 24
60	5300	24.39	24.87 > 24
64	5320	23.26	24.66 > 24
100	5500	24.71	24.92 > 24
116	5580	27.07	25.32 > 24
140	5700	24.34	24.86 > 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	37.51	29.06
60	5300	28.93	24.25
64	5320	31.43	23.65
100	5500	30.74	32.47
116	5580	34.73	34.46
140	5700	24.62	29.61

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	29.06	25.63 > 24
60	5300	24.25	24.84 > 24
64	5320	23.65	24.73 > 24
100	5500	30.74	25.87 > 24
116	5580	34.46	26.37 > 24
140	5700	24.62	24.91 > 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	39.69	66.32
62	5310	39.53	39.50
102	5510	60.85	39.65
110	5550	61.47	54.35
134	5670	40.78	39.56

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	39.69	26.98 > 24
62	5310	39.50	26.96 > 24
102	5510	39.65	26.98 > 24
110	5550	54.35	28.35 > 24
134	5670	39.56	26.97 > 24

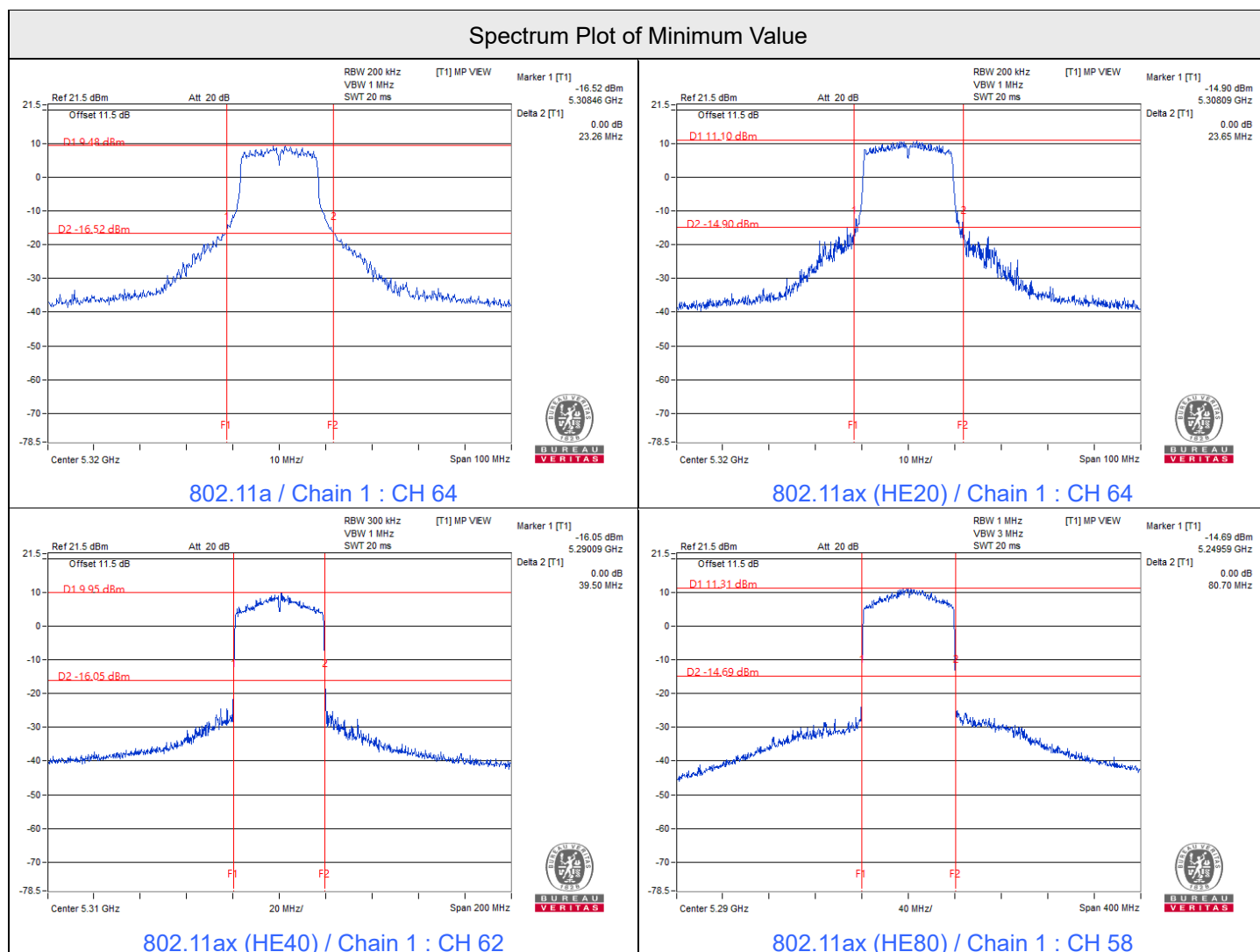
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.02	80.70
106	5530	100.68	80.74
122	5610	127.29	140.13

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	80.70	30.06 > 24
106	5530	80.74	30.07 > 24
122	5610	127.29	32.04 > 24

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



7.2 RF Output Power

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

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.74	18.76	149.979	21.76	24	Pass
40	5200	19.63	20.40	201.481	23.04	24	Pass
48	5240	19.65	20.34	200.401	23.02	24	Pass
52	5260	19.66	20.53	205.449	23.13	24	Pass
60	5300	19.79	19.86	192.107	22.84	24	Pass
64	5320	19.06	19.10	161.821	22.09	24	Pass
100	5500	17.12	17.60	109.067	20.38	24	Pass
116	5580	19.67	20.53	205.663	23.13	24	Pass
140	5700	16.86	16.91	97.62	19.90	24	Pass
149	5745	21.49	22.66	325.43	25.12	30	Pass
157	5785	21.56	22.73	330.718	25.19	30	Pass
165	5825	21.52	22.68	327.259	25.15	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.41 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.39 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	17.67	17.77	118.32	20.73	24	Pass
40	5200	18.94	18.96	157.048	21.96	24	Pass
48	5240	18.87	18.91	154.894	21.90	24	Pass
52	5260	18.91	18.94	156.147	21.94	24	Pass
60	5300	18.64	19.21	156.482	21.94	24	Pass
64	5320	18.14	18.17	130.777	21.17	24	Pass
100	5500	17.85	18.83	137.337	21.38	24	Pass
116	5580	18.73	18.84	151.205	21.80	24	Pass
140	5700	17.56	17.67	115.495	20.63	24	Pass
149	5745	20.92	21.72	272.188	24.35	30	Pass
157	5785	20.72	21.92	273.629	24.37	30	Pass
165	5825	21.06	21.19	259.166	24.14	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.41 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.39 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.04	17.50	106.817	20.29	24	Pass
46	5230	20.23	21.19	236.961	23.75	24	Pass
54	5270	20.29	21.20	238.731	23.78	24	Pass
62	5310	17.62	18.10	122.375	20.88	24	Pass
102	5510	16.16	16.55	86.49	19.37	24	Pass
110	5550	19.12	19.88	178.933	22.53	24	Pass
134	5670	17.77	18.45	129.825	21.13	24	Pass
151	5755	20.81	22.58	301.638	24.79	30	Pass
159	5795	20.61	22.34	286.476	24.57	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.41 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.39 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.66	16.00	76.624	18.84	24	Pass
58	5290	16.10	16.55	85.924	19.34	24	Pass
106	5530	15.89	16.52	83.69	19.23	24	Pass
122	5610	19.66	20.60	207.285	23.17	24	Pass
155	5775	19.19	20.82	203.766	23.09	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 2.47 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 2.41 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.39 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:	Frank Liu
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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			
36	5180	6.58	6.61	9.61	11	Pass
40	5200	7.44	7.78	10.62	11	Pass
48	5240	7.13	8.34	10.79	11	Pass
52	5260	7.26	8.24	10.79	11	Pass
60	5300	7.63	7.63	10.64	11	Pass
64	5320	6.85	6.83	9.85	11	Pass
100	5500	4.76	5.16	7.97	11	Pass
116	5580	7.20	8.43	10.87	11	Pass
140	5700	4.50	4.52	7.52	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.31 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.31 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.92 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.15	5.23	8.20	11	Pass
40	5200	6.48	6.45	9.48	11	Pass
48	5240	6.21	6.28	9.26	11	Pass
52	5260	6.22	6.46	9.35	11	Pass
60	5300	6.19	6.58	9.40	11	Pass
64	5320	5.54	5.38	8.47	11	Pass
100	5500	5.12	6.06	8.63	11	Pass
116	5580	6.24	6.03	9.15	11	Pass
140	5700	5.09	4.96	8.04	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.31 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.31 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	2.24	2.65	5.46	11	Pass
46	5230	5.44	6.10	8.79	11	Pass
54	5270	5.40	6.23	8.85	11	Pass
62	5310	2.77	3.20	6.00	11	Pass
102	5510	1.28	1.57	4.44	11	Pass
110	5550	4.25	4.82	7.55	11	Pass
134	5670	2.77	3.60	6.22	11	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.31 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.31 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.92 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-2.49	-2.07	0.74	11	Pass
58	5290	-2.14	-1.68	1.11	11	Pass
106	5530	-2.22	-1.78	1.02	11	Pass
122	5610	1.49	2.40	4.98	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.31 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.31 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.92 dBi < 6 dBi, so the power density limit shall not be reduced.

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				
149	5745	1.14	2.13	4.67	6.89	30	Pass
157	5785	1.05	1.36	4.22	6.44	30	Pass
165	5825	0.90	0.99	3.96	6.18	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.27 dBi < 6 dBi, so the power density limit shall not be reduced.

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				
149	5745	-1.64	-0.31	2.09	4.31	30	Pass
157	5785	-1.51	-0.80	1.87	4.09	30	Pass
165	5825	-1.55	-1.34	1.57	3.79	30	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.27 dBi < 6 dBi, so the power density limit shall not be reduced.

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				
151	5755	-3.57	-2.05	0.27	2.49	30	Pass
159	5795	-3.75	-2.07	0.18	2.40	30	Pass

Notes:

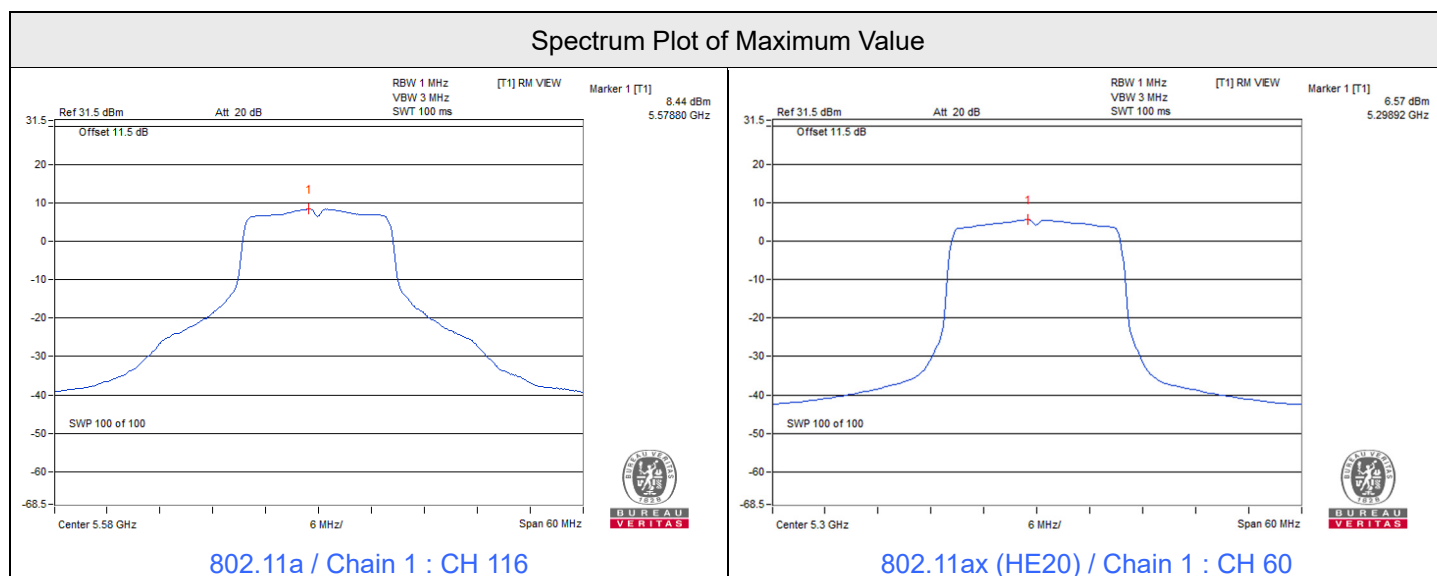
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2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.27 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

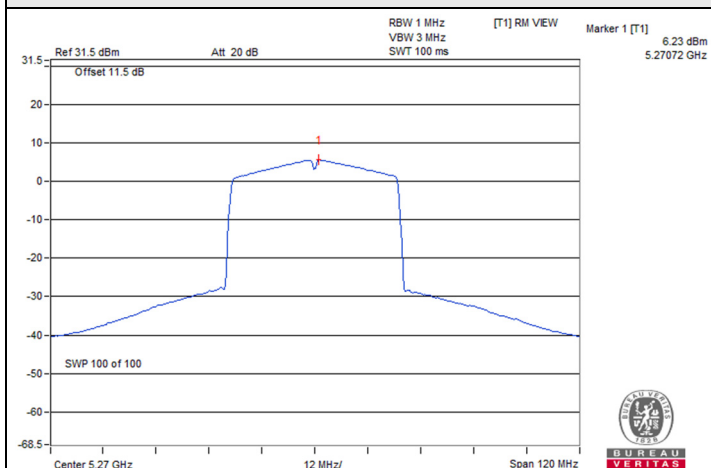
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
155	5775	-8.03	-6.92	-4.43	-2.21	30	Pass

Notes:

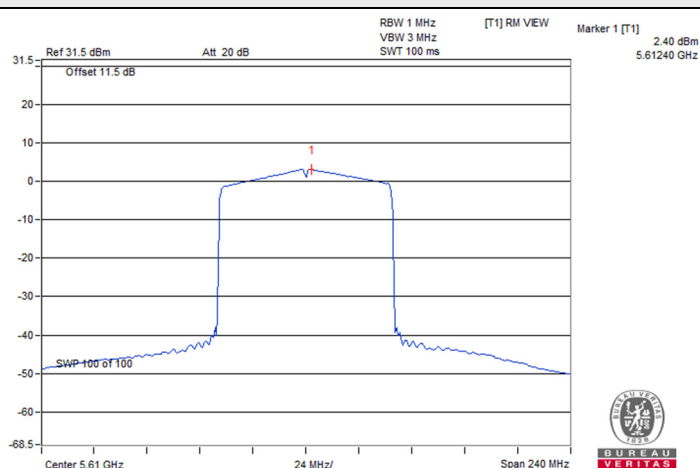
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 5.27 dBi < 6 dBi, so the power density limit shall not be reduced.



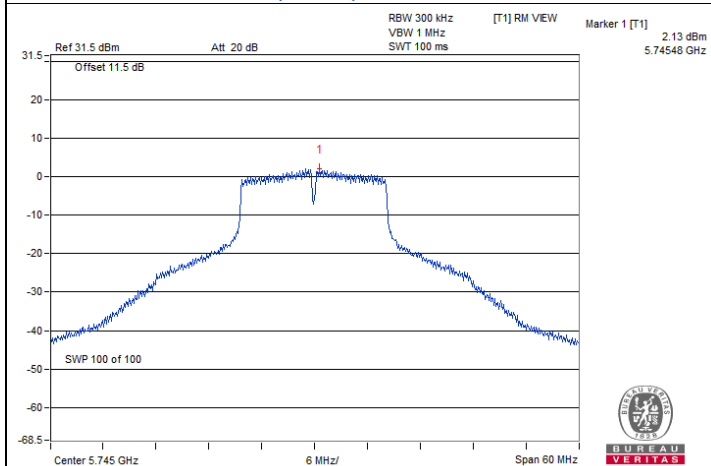
Spectrum Plot of Maximum Value



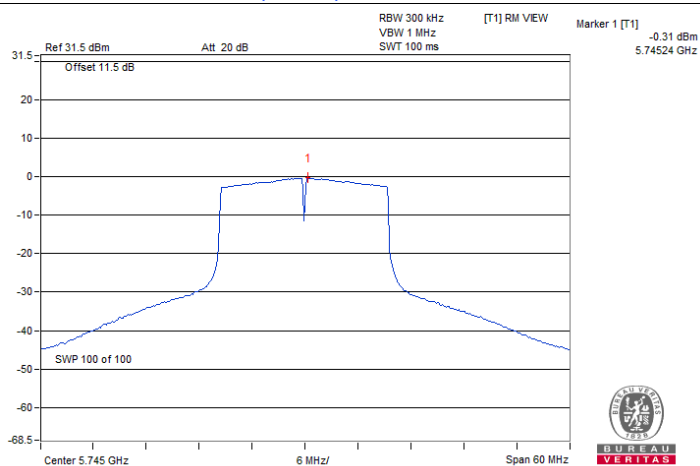
802.11ax (HE40) / Chain 1 : CH 54



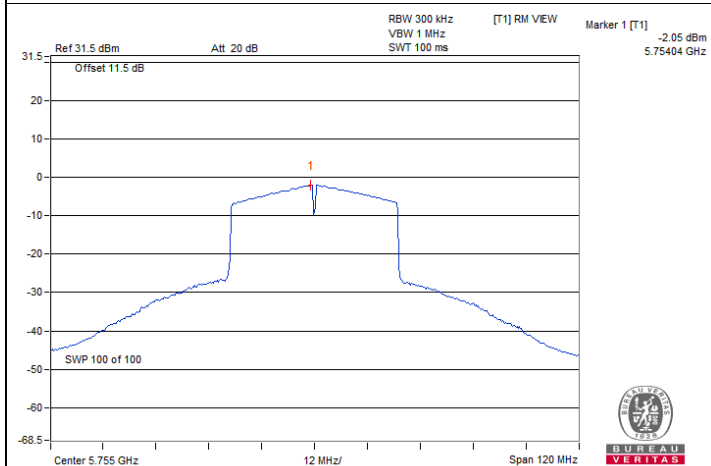
802.11ax (HE80) / Chain 1 : CH 122



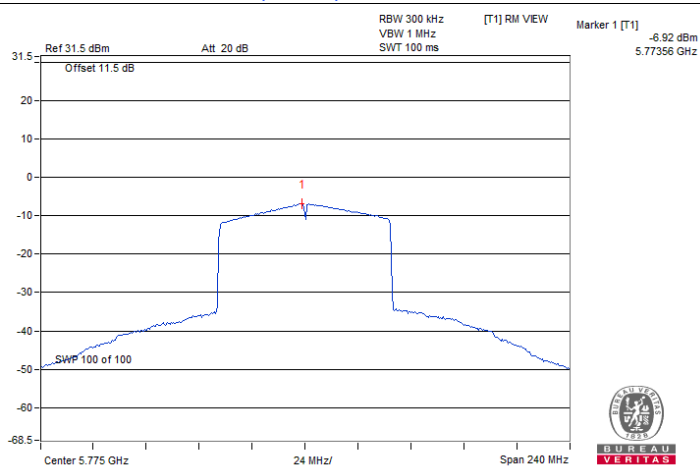
802.11a / Chain 1 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.29	16.38	0.5	Pass
157	5785	16.35	16.05	0.5	Pass
165	5825	16.09	16.38	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	18.85	18.96	0.5	Pass
157	5785	18.77	18.93	0.5	Pass
165	5825	18.67	19.04	0.5	Pass

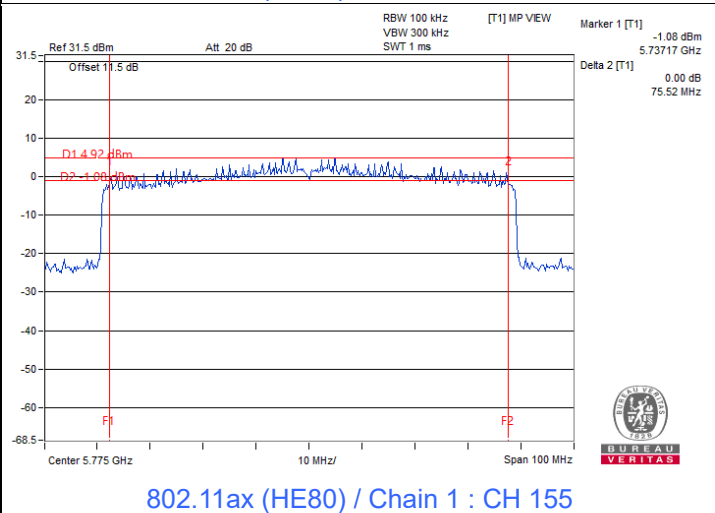
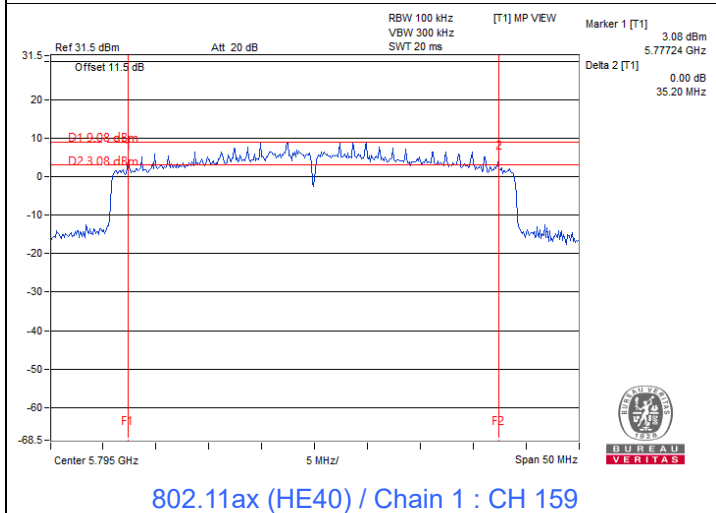
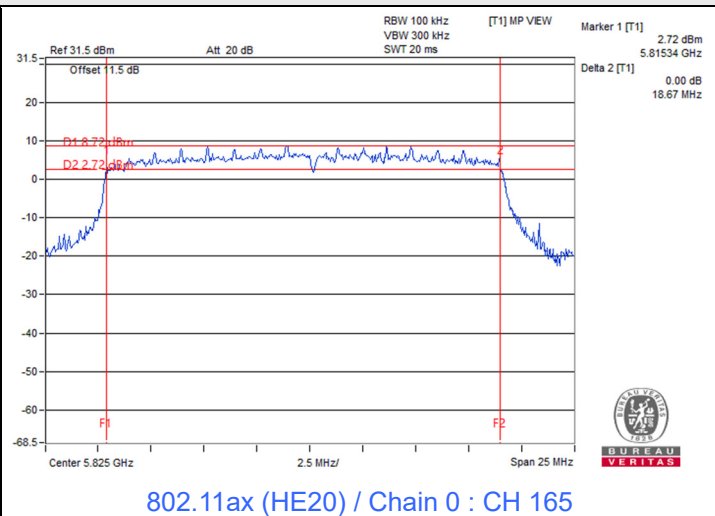
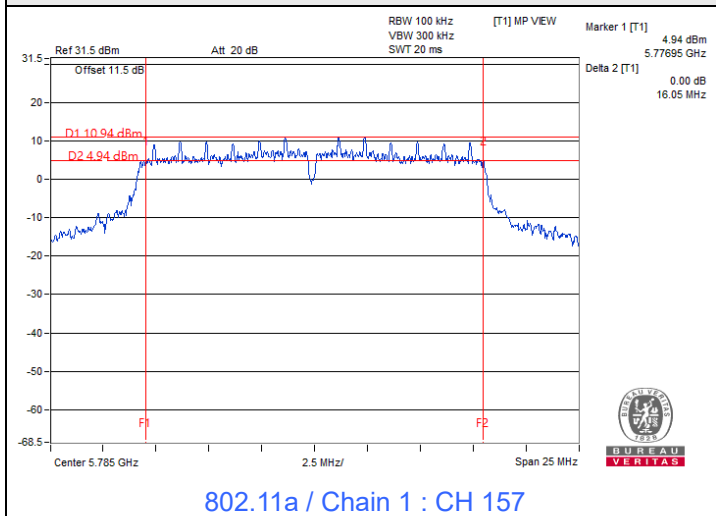
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	35.90	35.21	0.5	Pass
159	5795	36.42	35.20	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	75.68	75.52	0.5	Pass

Spectrum Plot of Minimum Value



7.5 Occupied Bandwidth

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

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.88	17.40
40	5200	18.00	17.52
48	5240	16.92	16.68
52	5260	17.88	17.76
60	5300	17.88	19.44
64	5320	16.92	17.88
100	5500	17.88	25.08
116	5580	21.36	17.28
140	5700	18.60	17.04
149	5745	18.96	22.08
157	5785	19.80	20.52
165	5825	20.04	19.68

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.08	19.08
40	5200	19.08	19.08
48	5240	18.84	18.84
52	5260	19.08	19.32
60	5300	19.08	19.08
64	5320	19.20	19.08
100	5500	23.16	19.08
116	5580	19.44	19.08
140	5700	19.08	19.08
149	5745	19.20	19.20
157	5785	19.08	19.08
165	5825	19.08	19.08

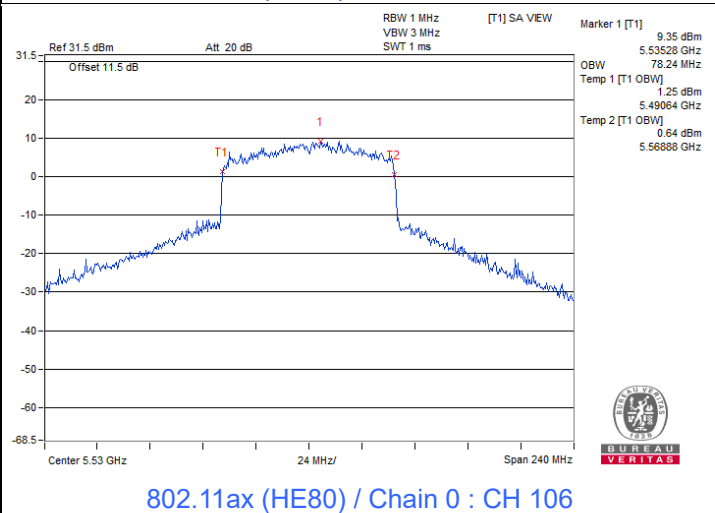
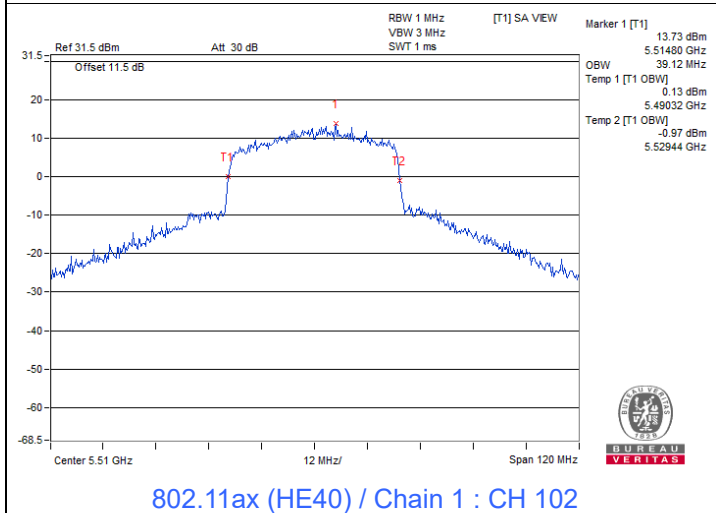
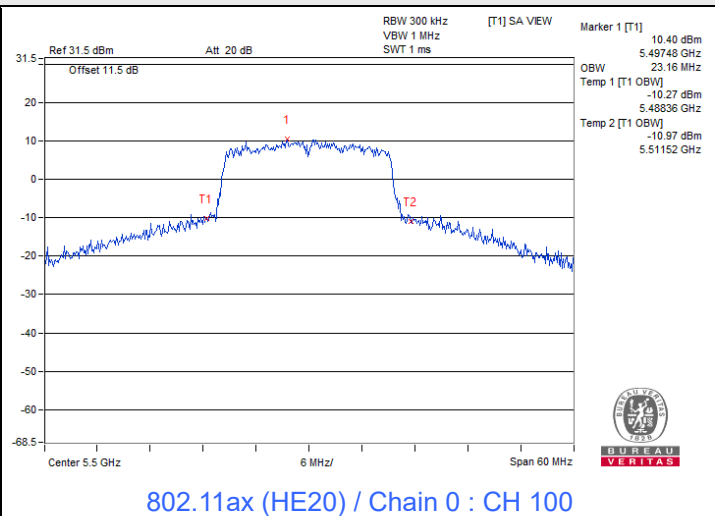
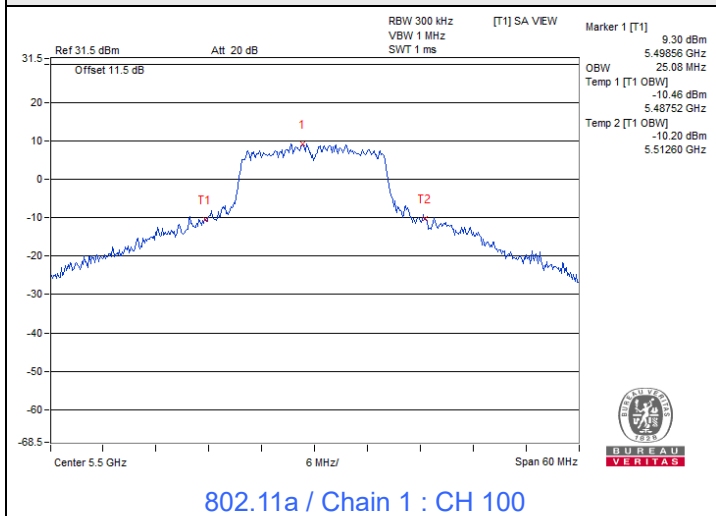
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.68
46	5230	37.92	37.92
54	5270	38.40	37.92
62	5310	37.92	37.92
102	5510	37.68	39.12
110	5550	38.16	37.92
134	5670	37.92	37.68
151	5755	37.92	38.40
159	5795	38.40	38.64

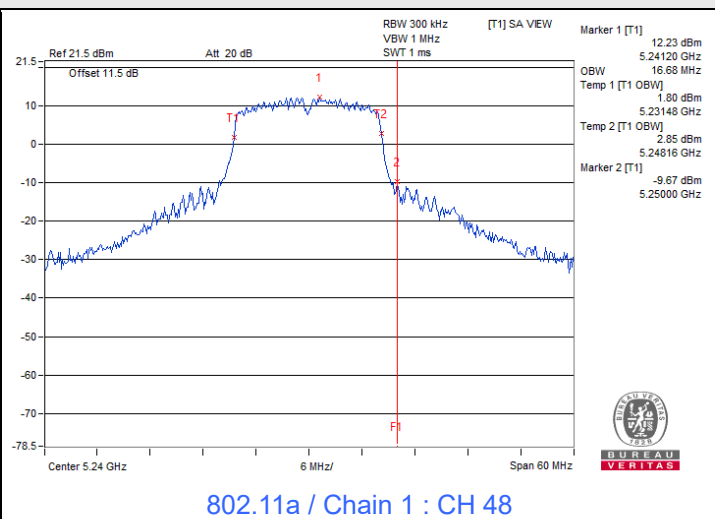
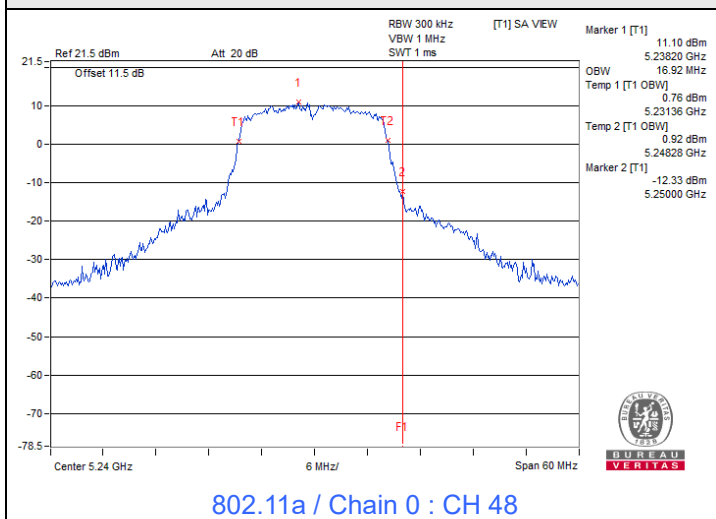
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	77.28
58	5290	76.80	77.28
106	5530	78.24	76.80
122	5610	76.80	76.32
155	5775	76.80	77.28

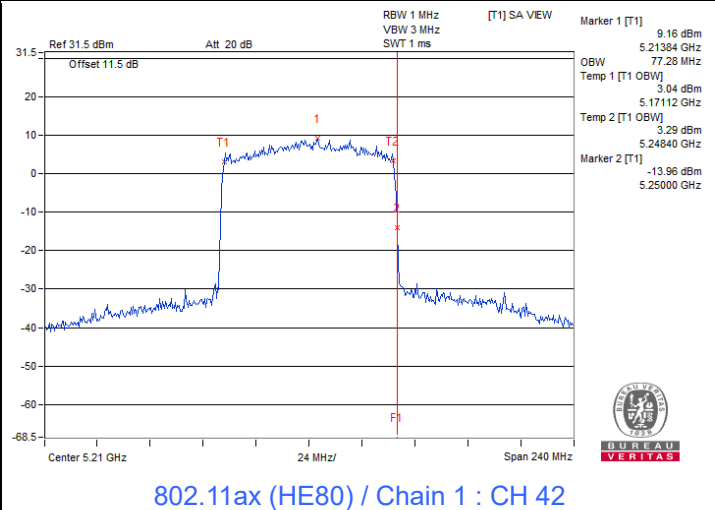
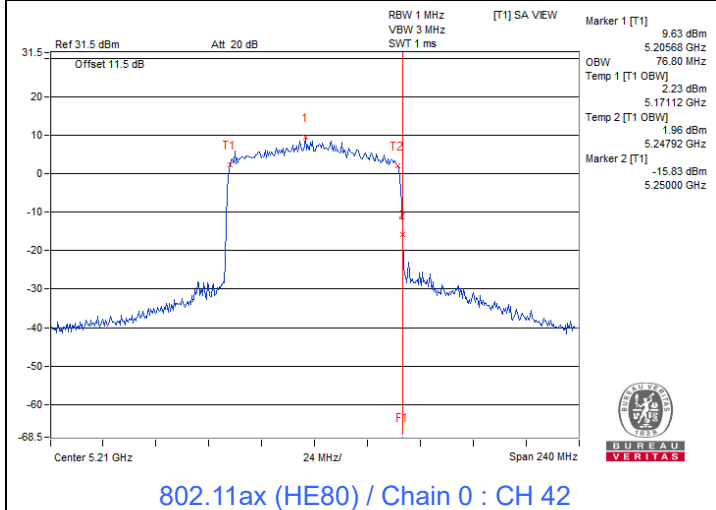
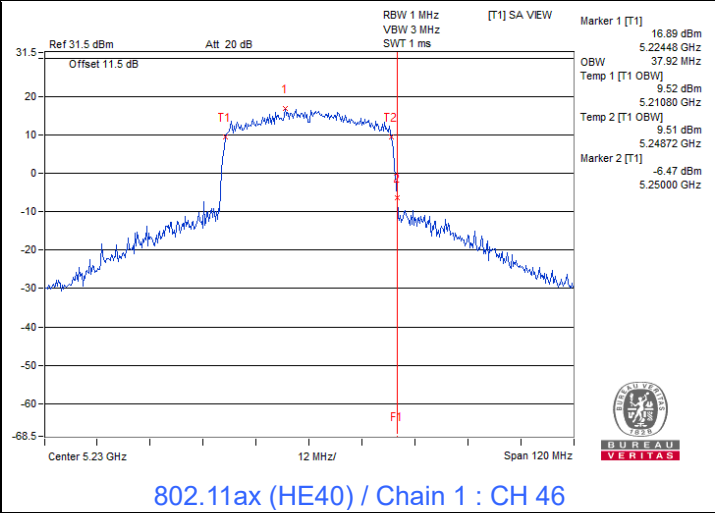
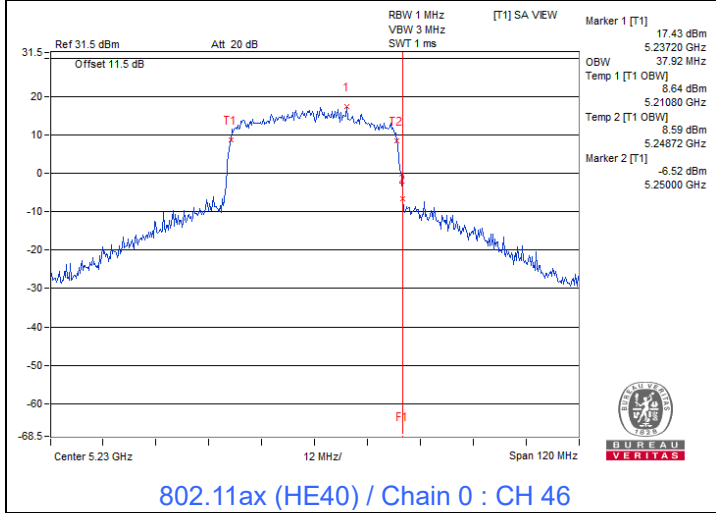
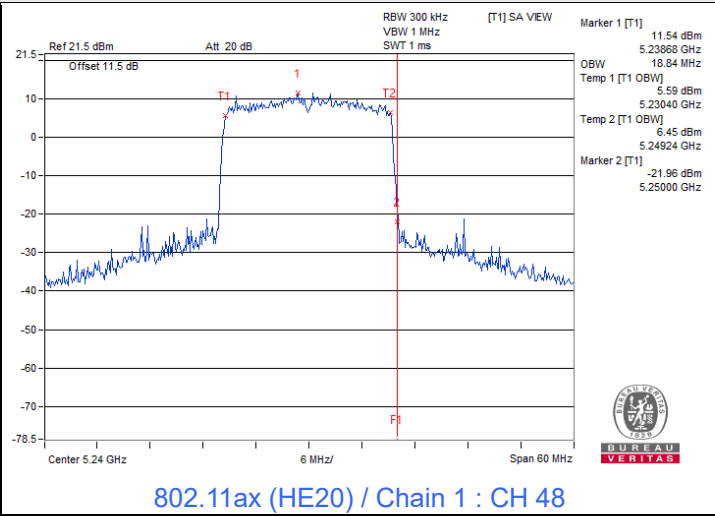
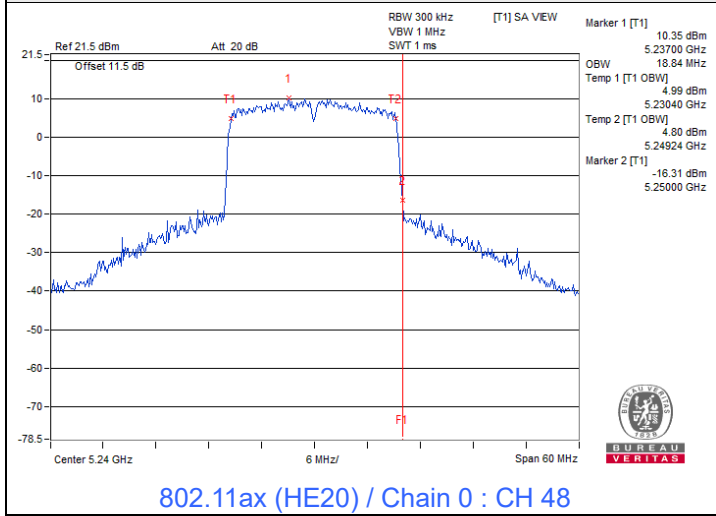
Spectrum Plot of Maximum Value



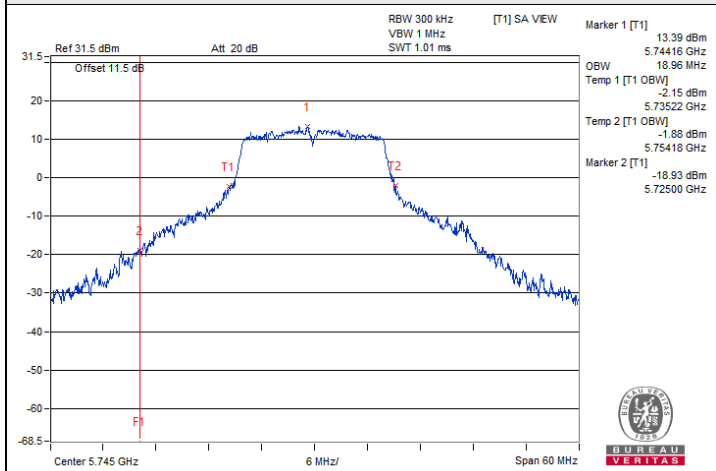
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



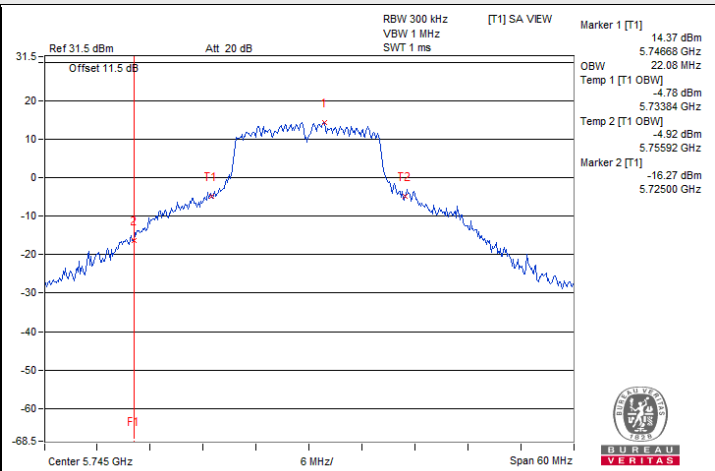
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



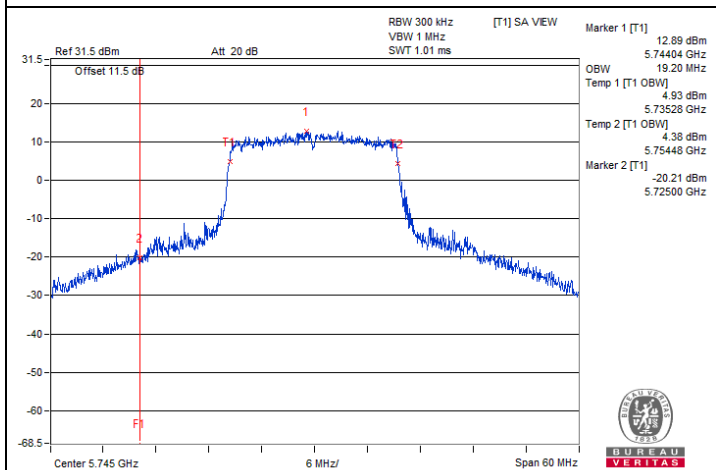
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



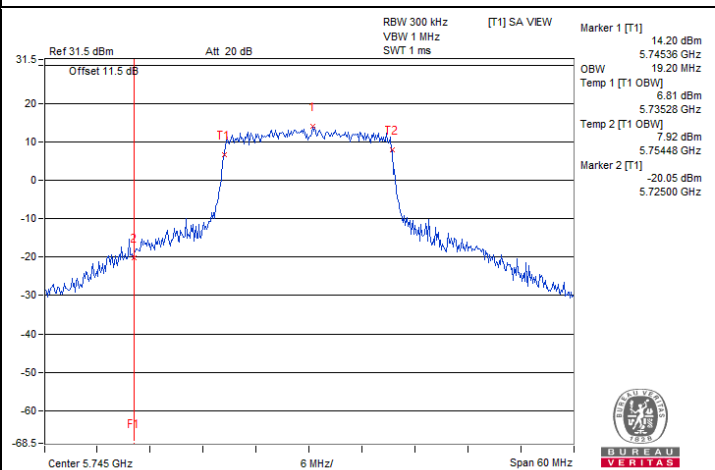
802.11a / Chain 0 : CH 149



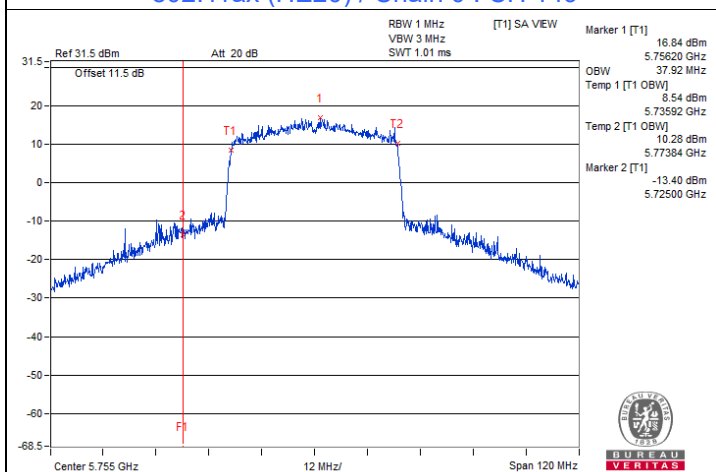
802.11a / Chain 1 : CH 149



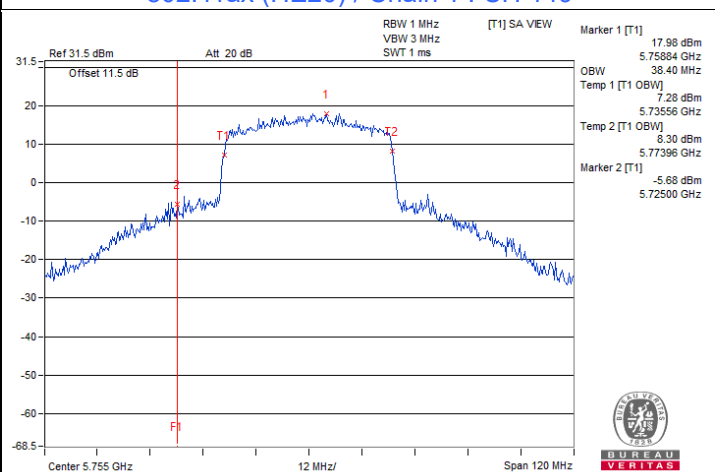
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

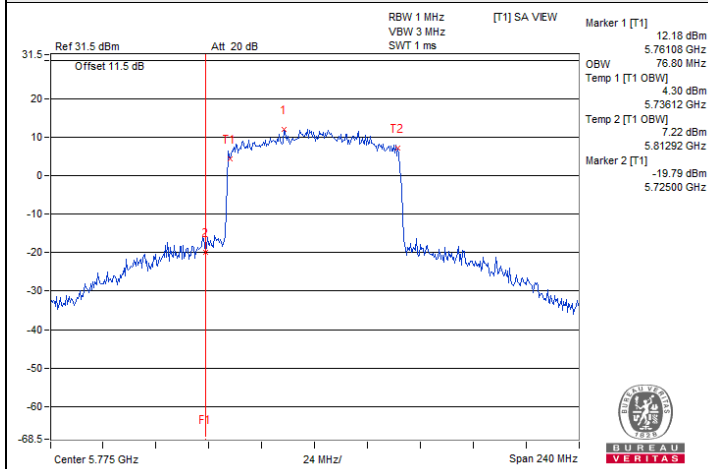


802.11ax (HE40) / Chain 0 : CH 151

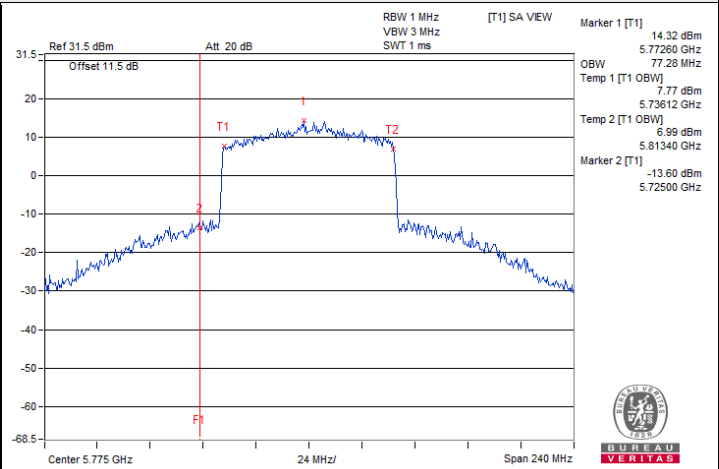


802.11ax (HE40) / Chain 1 : CH 151

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



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Frank Liu
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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	5180.0173	Pass	5180.0131	Pass	5180.0126	Pass	5180.0155	Pass
30	120	5180.0093	Pass	5180.0113	Pass	5180.0133	Pass	5180.0127	Pass
20	120	5179.9995	Pass	5180.0004	Pass	5180.0005	Pass	5180.0003	Pass
10	120	5179.9919	Pass	5179.9964	Pass	5179.9919	Pass	5179.995	Pass
0	120	5180.0247	Pass	5180.0211	Pass	5180.0215	Pass	5180.0217	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	5179.994	Pass	5179.9955	Pass	5179.9948	Pass	5179.9932	Pass
	120	5179.9995	Pass	5180.0004	Pass	5180.0005	Pass	5180.0003	Pass
	102	5179.9911	Pass	5179.9932	Pass	5179.9908	Pass	5179.9913	Pass

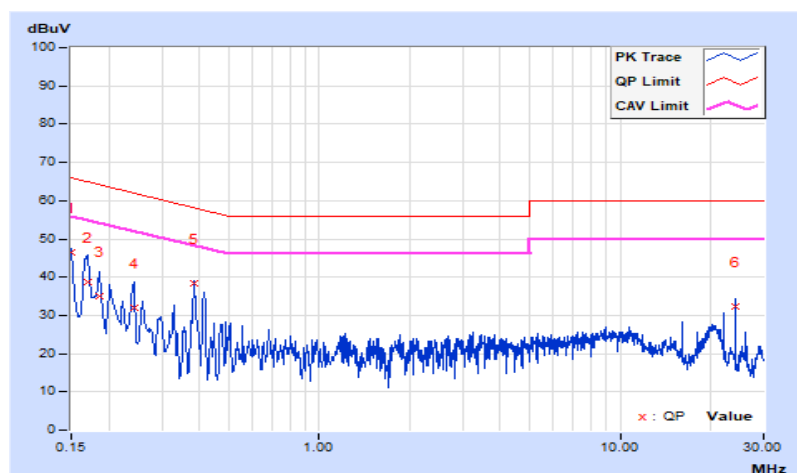
7.7 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.32	36.09	24.47	46.41	34.79	66.00	56.00	-19.59	-21.21
2	0.17000	10.33	28.25	14.90	38.58	25.23	64.96	54.96	-26.38	-29.73
3	0.18600	10.33	24.53	11.97	34.86	22.30	64.21	54.21	-29.35	-31.91
4	0.24200	10.36	21.48	13.15	31.84	23.51	62.03	52.03	-30.19	-28.52
5	0.38600	10.41	28.06	27.15	38.47	37.56	58.15	48.15	-19.68	-10.59
6	24.17400	10.60	21.73	19.99	32.33	30.59	60.00	50.00	-27.67	-19.41

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

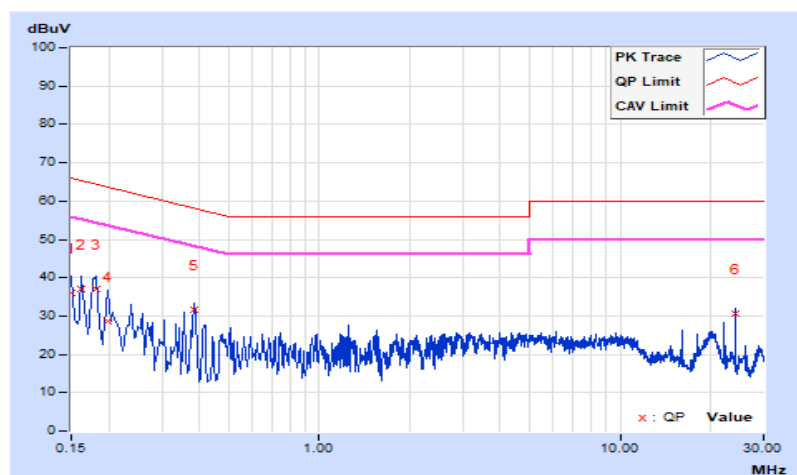


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.33	25.62	21.58	35.95	31.91	66.00	56.00	-30.05	-24.09
2	0.16190	10.34	26.62	11.87	36.96	22.21	65.37	55.37	-28.41	-33.16
3	0.18133	10.35	26.66	18.20	37.01	28.55	64.42	54.42	-27.41	-25.87
4	0.19800	10.36	18.42	5.21	28.78	15.57	63.69	53.69	-34.91	-38.12
5	0.38600	10.43	21.25	21.11	31.68	31.54	58.15	48.15	-26.47	-16.61
6	24.17800	10.77	19.99	18.13	30.76	28.90	60.00	50.00	-29.24	-21.10

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	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	30.97	33.1 QP	40.0	-6.9	1.00 H	66	44.1	-11.0
2	80.44	23.6 QP	40.0	-16.4	1.49 H	303	37.4	-13.8
3	167.74	23.6 QP	43.5	-19.9	1.99 H	212	32.7	-9.1
4	397.63	23.9 QP	46.0	-22.1	1.99 H	0	29.7	-5.8
5	559.62	26.9 QP	46.0	-19.1	1.00 H	162	29.7	-2.8
6	850.62	32.7 QP	46.0	-13.3	1.49 H	190	29.6	3.1
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	30.00	33.1 QP	40.0	-6.9	1.01 V	318	43.9	-10.8
2	45.52	33.2 QP	40.0	-6.8	1.01 V	215	42.6	-9.4
3	80.44	30.6 QP	40.0	-9.4	1.01 V	347	44.4	-13.8
4	287.05	28.9 QP	46.0	-17.1	1.01 V	18	36.8	-7.9
5	342.34	26.1 QP	46.0	-19.9	1.01 V	15	33.2	-7.1
6	562.53	28.2 QP	46.0	-17.8	1.51 V	196	31.0	-2.8

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

7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	2.69 H	14	44.7	20.7
2	5150.00	53.0 AV	54.0	-1.0	2.69 H	14	32.3	20.7
3	*5180.00	115.6 PK			2.69 H	14	75.0	40.6
4	*5180.00	105.8 AV			2.69 H	14	65.2	40.6
5	#10360.00	63.3 PK	68.2	-4.9	2.22 H	170	40.0	23.3
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	5150.00	63.0 PK	74.0	-11.0	3.58 V	233	42.3	20.7
2	5150.00	51.0 AV	54.0	-3.0	3.58 V	233	30.3	20.7
3	*5180.00	112.3 PK			3.58 V	233	71.7	40.6
4	*5180.00	103.5 AV			3.58 V	233	62.9	40.6
5	#10360.00	63.1 PK	68.2	-5.1	3.66 V	254	39.4	23.7

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	66.3 PK	74.0	-7.7	3.02 H	28	45.5	20.8
2	5150.00	53.7 AV	54.0	-0.3	3.02 H	28	32.9	20.8
3	*5200.00	116.2 PK			3.02 H	28	75.5	40.7
4	*5200.00	106.4 AV			3.02 H	28	65.7	40.7
5	#10400.00	63.7 PK	68.2	-4.5	2.24 H	169	39.4	24.3
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	5150.00	65.0 PK	74.0	-9.0	3.51 V	221	44.3	20.7
2	5150.00	52.8 AV	54.0	-1.2	3.51 V	221	32.1	20.7
3	*5200.00	113.4 PK			3.51 V	221	72.9	40.5
4	*5200.00	104.4 AV			3.51 V	221	63.9	40.5
5	#10400.00	63.1 PK	68.2	-5.1	3.67 V	258	39.3	23.8

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	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	118.3 PK			3.04 H	14	77.8	40.5
2	*5240.00	109.0 AV			3.04 H	14	68.5	40.5
3	5350.00	62.6 PK	74.0	-11.4	3.04 H	14	42.3	20.3
4	5350.00	50.2 AV	54.0	-3.8	3.04 H	14	29.9	20.3
5	#10480.00	64.5 PK	68.2	-3.7	2.23 H	172	40.0	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	*5240.00	114.0 PK			3.49 V	232	73.5	40.5
2	*5240.00	105.5 AV			3.49 V	232	65.0	40.5
3	5350.00	61.3 PK	74.0	-12.7	3.49 V	232	41.0	20.3
4	5350.00	48.6 AV	54.0	-5.4	3.49 V	232	28.3	20.3
5	#10480.00	63.4 PK	68.2	-4.8	3.62 V	255	38.9	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 (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.5 PK	74.0	-8.5	3.01 H	19	44.8	20.7
2	5150.00	53.1 AV	54.0	-0.9	3.01 H	19	32.4	20.7
3	*5180.00	116.2 PK			3.01 H	19	75.6	40.6
4	*5180.00	104.2 AV			3.01 H	19	63.6	40.6
5	#10360.00	63.6 PK	68.2	-4.6	2.22 H	172	39.9	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	3.58 V	235	41.7	20.7
2	5150.00	50.2 AV	54.0	-3.8	3.58 V	235	29.5	20.7
3	*5180.00	113.8 PK			3.58 V	235	73.2	40.6
4	*5180.00	100.9 AV			3.58 V	235	60.3	40.6
5	#10360.00	63.3 PK	68.2	-4.9	3.67 V	254	39.6	23.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	2.95 H	15	44.7	20.7
2	5150.00	53.4 AV	54.0	-0.6	2.95 H	15	32.7	20.7
3	*5200.00	116.7 PK			2.95 H	15	76.2	40.5
4	*5200.00	105.0 AV			2.95 H	15	64.5	40.5
5	#10400.00	63.6 PK	68.2	-4.6	2.25 H	174	39.8	23.8
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	63.7 PK	74.0	-10.3	3.61 V	232	43.0	20.7
2	5150.00	50.6 AV	54.0	-3.4	3.61 V	232	29.9	20.7
3	*5200.00	112.4 PK			3.61 V	232	71.9	40.5
4	*5200.00	101.7 AV			3.61 V	232	61.2	40.5
5	#10400.00	62.9 PK	68.2	-5.3	3.67 V	248	39.1	23.8

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 (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	119.5 PK			3.01 H	23	79.0	40.5
2	*5240.00	107.9 AV			3.01 H	23	67.4	40.5
3	5350.00	62.5 PK	74.0	-11.5	3.01 H	23	42.2	20.3
4	5350.00	50.3 AV	54.0	-3.7	3.01 H	23	30.0	20.3
5	#10480.00	64.2 PK	68.2	-4.0	2.24 H	175	39.7	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	*5240.00	115.5 PK			3.59 V	250	75.0	40.5
2	*5240.00	104.0 AV			3.59 V	250	63.5	40.5
3	5350.00	61.3 PK	74.0	-12.7	3.59 V	250	41.0	20.3
4	5350.00	48.3 AV	54.0	-5.7	3.59 V	250	28.0	20.3
5	#10480.00	63.9 PK	68.2	-4.3	3.65 V	252	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 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	64.9 PK	74.0	-9.1	3.01 H	24	44.2	20.7
2	5150.00	52.6 AV	54.0	-1.4	3.01 H	24	31.9	20.7
3	*5190.00	113.0 PK			3.01 H	24	72.4	40.6
4	*5190.00	101.6 AV			3.01 H	24	61.0	40.6
5	#10380.00	62.9 PK	68.2	-5.3	2.25 H	170	39.1	23.8
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	63.8 PK	74.0	-10.2	3.48 V	219	43.1	20.7
2	5150.00	50.9 AV	54.0	-3.1	3.48 V	219	30.2	20.7
3	*5190.00	110.2 PK			3.48 V	219	69.6	40.6
4	*5190.00	97.8 AV			3.48 V	219	57.2	40.6
5	#10380.00	62.6 PK	68.2	-5.6	3.64 V	252	38.8	23.8

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 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	66.2 PK	74.0	-7.8	3.20 H	24	45.5	20.7
2	5150.00	53.3 AV	54.0	-0.7	3.20 H	24	32.6	20.7
3	*5230.00	117.2 PK			3.20 H	24	76.7	40.5
4	*5230.00	105.5 AV			3.20 H	24	65.0	40.5
5	5350.00	61.5 PK	74.0	-12.5	3.20 H	24	41.2	20.3
6	5350.00	49.3 AV	54.0	-4.7	3.20 H	24	29.0	20.3
7	#10460.00	63.1 PK	68.2	-5.1	2.25 H	172	38.9	24.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	3.52 V	233	42.3	20.7
2	5150.00	50.0 AV	54.0	-4.0	3.52 V	233	29.3	20.7
3	*5230.00	113.3 PK			3.52 V	233	72.8	40.5
4	*5230.00	100.8 AV			3.52 V	233	60.3	40.5
5	5350.00	61.3 PK	74.0	-12.7	3.52 V	233	41.0	20.3
6	5350.00	48.3 AV	54.0	-5.7	3.52 V	233	28.0	20.3
7	#10460.00	62.9 PK	68.2	-5.3	3.64 V	252	38.7	24.2

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	5148.00	64.1 PK	74.0	-9.9	2.80 H	20	43.4	20.7
2	5148.00	51.8 AV	54.0	-2.2	2.80 H	20	31.1	20.7
3	*5210.00	108.5 PK			2.80 H	20	68.0	40.5
4	*5210.00	96.7 AV			2.80 H	20	56.2	40.5
5	#10420.00	63.1 PK	68.2	-5.1	2.24 H	174	39.1	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	3.09 V	231	40.9	20.7
2	5150.00	49.6 AV	54.0	-4.4	3.09 V	231	28.9	20.7
3	*5210.00	105.1 PK			3.09 V	231	64.6	40.5
4	*5210.00	92.7 AV			3.09 V	231	52.2	40.5
5	#10420.00	62.9 PK	68.2	-5.3	3.64 V	255	38.9	24.0

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 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	2.65 H	26	41.2	20.7
2	5150.00	49.8 AV	54.0	-4.2	2.65 H	26	29.1	20.7
3	*5260.00	116.8 PK			2.65 H	26	76.3	40.5
4	*5260.00	107.4 AV			2.65 H	26	66.9	40.5
5	#10520.00	64.3 PK	68.2	-3.9	2.24 H	169	39.6	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	3.57 V	255	40.6	20.7
2	5150.00	48.6 AV	54.0	-5.4	3.57 V	255	27.9	20.7
3	*5260.00	113.5 PK			3.57 V	255	73.0	40.5
4	*5260.00	104.2 AV			3.57 V	255	63.7	40.5
5	#10520.00	63.5 PK	68.2	-4.7	3.63 V	254	38.8	24.7

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	115.8 PK			2.40 H	26	75.4	40.4
2	*5300.00	107.2 AV			2.40 H	26	66.8	40.4
3	5350.00	67.1 PK	74.0	-6.9	2.40 H	26	46.8	20.3
4	5350.00	53.9 AV	54.0	-0.1	2.40 H	26	33.6	20.3
5	10600.00	63.7 PK	74.0	-10.3	2.28 H	166	39.0	24.7
6	10600.00	50.6 AV	54.0	-3.4	2.28 H	166	25.9	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.1 PK			3.61 V	236	73.7	40.4
2	*5300.00	104.3 AV			3.61 V	236	63.9	40.4
3	5350.00	65.3 PK	74.0	-8.7	3.61 V	236	45.0	20.3
4	5350.00	51.8 AV	54.0	-2.2	3.61 V	236	31.5	20.3
5	10600.00	63.3 PK	74.0	-10.7	3.65 V	253	38.6	24.7
6	10600.00	50.3 AV	54.0	-3.7	3.65 V	253	25.6	24.7

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	115.5 PK			2.93 H	30	75.1	40.4
2	*5320.00	106.2 AV			2.93 H	30	65.8	40.4
3	5350.00	69.3 PK	74.0	-4.7	2.93 H	30	49.0	20.3
4	5350.00	52.6 AV	54.0	-1.4	2.93 H	30	32.3	20.3
5	10640.00	64.1 PK	74.0	-9.9	2.28 H	172	39.0	25.1
6	10640.00	50.8 AV	54.0	-3.2	2.28 H	172	25.7	25.1
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	*5320.00	113.0 PK			3.54 V	235	72.2	40.8
2	*5320.00	103.4 AV			3.54 V	235	62.6	40.8
3	5350.00	65.7 PK	74.0	-8.3	3.54 V	235	45.0	20.7
4	5350.00	51.8 AV	54.0	-2.2	3.54 V	235	31.1	20.7
5	10640.00	63.4 PK	74.0	-10.6	3.68 V	257	37.8	25.6
6	10640.00	50.6 AV	54.0	-3.4	3.68 V	257	25.0	25.6

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 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	2.85 H	21	41.7	20.7
2	5150.00	49.8 AV	54.0	-4.2	2.85 H	21	29.1	20.7
3	*5260.00	118.9 PK			2.85 H	21	78.4	40.5
4	*5260.00	107.2 AV			2.85 H	21	66.7	40.5
5	5350.00	64.5 PK	74.0	-9.5	2.85 H	21	44.2	20.3
6	5350.00	52.1 AV	54.0	-1.9	2.85 H	21	31.8	20.3
7	#10520.00	62.8 PK	68.2	-5.4	2.26 H	172	38.1	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.4 PK	74.0	-13.6	3.78 V	237	39.7	20.7
2	5150.00	48.1 AV	54.0	-5.9	3.78 V	237	27.4	20.7
3	*5260.00	115.2 PK			3.78 V	237	74.7	40.5
4	*5260.00	103.1 AV			3.78 V	237	62.6	40.5
5	5350.00	61.5 PK	74.0	-12.5	3.78 V	237	41.2	20.3
6	5350.00	47.9 AV	54.0	-6.1	3.78 V	237	27.6	20.3
7	#10520.00	62.2 PK	68.2	-6.0	3.67 V	250	37.5	24.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	117.4 PK			2.64 H	27	77.0	40.4
2	*5300.00	105.7 AV			2.64 H	27	65.3	40.4
3	5350.00	66.3 PK	74.0	-7.7	2.64 H	27	46.0	20.3
4	5350.00	53.0 AV	54.0	-1.0	2.64 H	27	32.7	20.3
5	10600.00	63.0 PK	74.0	-11.0	2.25 H	168	38.3	24.7
6	10600.00	50.7 AV	54.0	-3.3	2.25 H	168	26.0	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.0 PK			3.60 V	234	73.6	40.4
2	*5300.00	102.5 AV			3.60 V	234	62.1	40.4
3	5350.00	63.6 PK	74.0	-10.4	3.60 V	234	43.3	20.3
4	5350.00	51.8 AV	54.0	-2.2	3.60 V	234	31.5	20.3
5	10600.00	62.9 PK	74.0	-11.1	3.55 V	259	38.2	24.7
6	10600.00	50.3 AV	54.0	-3.7	3.55 V	259	25.6	24.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	117.4 PK			2.74 H	24	77.0	40.4
2	*5320.00	105.0 AV			2.74 H	24	64.6	40.4
3	5350.00	65.9 PK	74.0	-8.1	2.74 H	24	45.6	20.3
4	5350.00	53.6 AV	54.0	-0.4	2.74 H	24	33.3	20.3
5	10640.00	63.9 PK	74.0	-10.1	2.26 H	168	38.8	25.1
6	10640.00	51.0 AV	54.0	-3.0	2.26 H	168	25.9	25.1
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	*5320.00	114.0 PK			3.57 V	238	73.6	40.4
2	*5320.00	101.8 AV			3.57 V	238	61.4	40.4
3	5350.00	62.6 PK	74.0	-11.4	3.57 V	238	42.3	20.3
4	5350.00	50.1 AV	54.0	-3.9	3.57 V	238	29.8	20.3
5	10640.00	63.2 PK	74.0	-10.8	3.66 V	258	38.1	25.1
6	10640.00	50.6 AV	54.0	-3.4	3.66 V	258	25.5	25.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.7 PK	74.0	-12.3	2.75 H	24	41.0	20.7
2	5150.00	49.0 AV	54.0	-5.0	2.75 H	24	28.3	20.7
3	*5270.00	115.0 PK			2.75 H	24	74.6	40.4
4	*5270.00	104.0 AV			2.75 H	24	63.6	40.4
5	5350.00	66.1 PK	74.0	-7.9	2.75 H	24	45.8	20.3
6	5350.00	52.3 AV	54.0	-1.7	2.75 H	24	32.0	20.3
7	#10540.00	63.4 PK	68.2	-4.8	2.24 H	170	38.7	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	3.76 V	237	40.1	20.7
2	5150.00	47.9 AV	54.0	-6.1	3.76 V	237	27.2	20.7
3	*5270.00	113.3 PK			3.76 V	237	72.9	40.4
4	*5270.00	101.2 AV			3.76 V	237	60.8	40.4
5	5350.00	62.1 PK	74.0	-11.9	3.76 V	237	41.8	20.3
6	5350.00	49.2 AV	54.0	-4.8	3.76 V	237	28.9	20.3
7	#10540.00	62.7 PK	68.2	-5.5	3.62 V	253	38.0	24.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	114.9 PK			2.81 H	24	74.5	40.4
2	*5310.00	103.4 AV			2.81 H	24	63.0	40.4
3	5351.70	71.6 PK	74.0	-2.4	2.81 H	24	51.2	20.4
4	5351.70	53.9 AV	54.0	-0.1	2.81 H	24	33.5	20.4
5	10620.00	64.0 PK	74.0	-10.0	2.28 H	166	39.0	25.0
6	10620.00	51.0 AV	54.0	-3.0	2.28 H	166	26.0	25.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	112.0 PK			3.72 V	236	71.6	40.4
2	*5310.00	100.2 AV			3.72 V	236	59.8	40.4
3	5350.00	71.3 PK	74.0	-2.7	3.72 V	236	51.0	20.3
4	5350.00	52.0 AV	54.0	-2.0	3.72 V	236	31.7	20.3
5	10620.00	63.3 PK	74.0	-10.7	3.66 V	264	38.3	25.0
6	10620.00	50.6 AV	54.0	-3.4	3.66 V	264	25.6	25.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19.8°C, 75.8% RH
Tested By	Adair Peng		

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	110.2 PK			2.82 H	18	69.8	40.4
2	*5290.00	97.9 AV			2.82 H	18	57.5	40.4
3	5351.00	67.1 PK	74.0	-6.9	2.82 H	18	46.7	20.4
4	5351.00	52.6 AV	54.0	-1.4	2.82 H	18	32.2	20.4
5	#10580.00	63.7 PK	68.2	-4.5	2.25 H	166	39.0	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	106.0 PK			3.74 V	236	65.6	40.4
2	*5290.00	94.3 AV			3.74 V	236	53.9	40.4
3	5354.30	63.7 PK	74.0	-10.3	3.74 V	236	43.3	20.4
4	5354.30	51.1 AV	54.0	-2.9	3.74 V	236	30.7	20.4
5	#10580.00	63.3 PK	68.2	-4.9	3.66 V	258	38.6	24.7

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	66.5 PK	74.0	-7.5	2.29 H	10	45.7	20.8
2	5460.00	53.3 AV	54.0	-0.7	2.29 H	10	32.5	20.8
3	#5470.00	67.5 PK	68.2	-0.7	2.29 H	10	46.7	20.8
4	*5500.00	113.7 PK			2.29 H	10	72.7	41.0
5	*5500.00	104.1 AV			2.29 H	10	63.1	41.0
6	11000.00	62.8 PK	74.0	-11.2	2.02 H	136	37.5	25.3
7	11000.00	49.2 AV	54.0	-4.8	2.02 H	136	23.9	25.3
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	5460.00	64.5 PK	74.0	-9.5	3.81 V	120	43.7	20.8
2	5460.00	51.6 AV	54.0	-2.4	3.81 V	120	30.8	20.8
3	#5470.00	66.4 PK	68.2	-1.8	3.81 V	120	45.6	20.8
4	*5500.00	110.5 PK			3.81 V	120	69.5	41.0
5	*5500.00	101.6 AV			3.81 V	120	60.6	41.0
6	11000.00	62.4 PK	74.0	-11.6	3.33 V	259	37.1	25.3
7	11000.00	49.0 AV	54.0	-5.0	3.33 V	259	23.7	25.3

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	118.7 PK			2.31 H	6	77.6	41.1
2	*5580.00	109.1 AV			2.31 H	6	68.0	41.1
3	11160.00	62.0 PK	74.0	-12.0	2.02 H	131	36.7	25.3
4	11160.00	49.2 AV	54.0	-4.8	2.02 H	131	23.9	25.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.0 PK			3.76 V	114	74.9	41.1
2	*5580.00	106.5 AV			3.76 V	114	65.4	41.1
3	11160.00	61.6 PK	74.0	-12.4	3.29 V	251	36.3	25.3
4	11160.00	48.9 AV	54.0	-5.1	3.29 V	251	23.6	25.3

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	115.2 PK			2.28 H	11	73.9	41.3
2	*5700.00	105.6 AV			2.28 H	11	64.3	41.3
3	#5725.00	67.2 PK	68.2	-1.0	2.28 H	11	45.8	21.4
4	11400.00	61.1 PK	74.0	-12.9	2.09 H	135	35.4	25.7
5	11400.00	48.2 AV	54.0	-5.8	2.09 H	135	22.5	25.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.2 PK			3.86 V	118	70.9	41.3
2	*5700.00	103.1 AV			3.86 V	118	61.8	41.3
3	#5725.00	64.0 PK	68.2	-4.2	3.86 V	118	42.6	21.4
4	11400.00	60.9 PK	74.0	-13.1	3.36 V	249	35.2	25.7
5	11400.00	48.1 AV	54.0	-5.9	3.36 V	249	22.4	25.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	66.1 PK	74.0	-7.9	2.61 H	12	45.3	20.8
2	5460.00	52.7 AV	54.0	-1.3	2.61 H	12	31.9	20.8
3	#5470.00	67.5 PK	68.2	-0.7	2.61 H	12	46.7	20.8
4	*5500.00	116.9 PK			2.61 H	12	75.9	41.0
5	*5500.00	105.0 AV			2.61 H	12	64.0	41.0
6	11000.00	62.4 PK	74.0	-11.6	1.97 H	133	37.1	25.3
7	11000.00	49.2 AV	54.0	-4.8	1.97 H	133	23.9	25.3
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	5460.00	64.6 PK	74.0	-9.4	3.89 V	113	43.8	20.8
2	5460.00	51.2 AV	54.0	-2.8	3.89 V	113	30.4	20.8
3	#5470.00	66.1 PK	68.2	-2.1	3.89 V	113	45.3	20.8
4	*5500.00	114.1 PK			3.89 V	113	73.1	41.0
5	*5500.00	102.5 AV			3.89 V	113	61.5	41.0
6	11000.00	62.0 PK	74.0	-12.0	3.37 V	261	36.7	25.3
7	11000.00	48.9 AV	54.0	-5.1	3.37 V	261	23.6	25.3

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	119.8 PK			2.74 H	15	78.4	41.4
2	*5580.00	107.7 AV			2.74 H	15	66.3	41.4
3	11160.00	61.8 PK	74.0	-12.2	2.08 H	128	36.2	25.6
4	11160.00	49.0 AV	54.0	-5.0	2.08 H	128	23.4	25.6
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	*5580.00	117.4 PK			3.80 V	122	76.3	41.1
2	*5580.00	105.2 AV			3.80 V	122	64.1	41.1
3	11160.00	61.4 PK	74.0	-12.6	3.37 V	252	36.1	25.3
4	11160.00	48.6 AV	54.0	-5.4	3.37 V	252	23.3	25.3

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	116.9 PK			2.64 H	17	75.6	41.3
2	*5700.00	105.2 AV			2.64 H	17	63.9	41.3
3	#5725.00	67.3 PK	68.2	-0.9	2.64 H	14	45.9	21.4
4	11400.00	61.9 PK	74.0	-12.1	2.16 H	137	36.2	25.7
5	11400.00	48.5 AV	54.0	-5.5	2.16 H	137	22.8	25.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	114.1 PK			3.77 V	115	72.8	41.3
2	*5700.00	102.5 AV			3.77 V	115	61.2	41.3
3	#5725.00	64.7 PK	68.2	-3.5	3.77 V	115	43.3	21.4
4	11400.00	61.5 PK	74.0	-12.5	3.29 V	253	35.8	25.7
5	11400.00	48.1 AV	54.0	-5.9	3.29 V	253	22.4	25.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	63.6 PK	74.0	-10.4	2.35 H	24	42.8	20.8
2	5460.00	51.6 AV	54.0	-2.4	2.35 H	24	30.8	20.8
3	#5470.00	66.9 PK	68.2	-1.3	2.35 H	24	46.1	20.8
4	*5510.00	114.8 PK			2.35 H	24	73.8	41.0
5	*5510.00	101.6 AV			2.35 H	24	60.6	41.0
6	11020.00	61.7 PK	74.0	-12.3	2.15 H	133	36.3	25.4
7	11020.00	48.6 AV	54.0	-5.4	2.15 H	133	23.2	25.4
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	5460.00	62.6 PK	74.0	-11.4	3.80 V	127	41.8	20.8
2	5460.00	49.7 AV	54.0	-4.3	3.80 V	127	28.9	20.8
3	#5470.00	64.0 PK	68.2	-4.2	3.80 V	127	43.2	20.8
4	*5510.00	109.8 PK			3.80 V	127	68.8	41.0
5	*5510.00	98.1 AV			3.80 V	127	57.1	41.0
6	11020.00	61.0 PK	74.0	-13.0	3.66 V	258	35.6	25.4
7	11020.00	48.3 AV	54.0	-5.7	3.66 V	258	22.9	25.4

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 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	66.1 PK	74.0	-7.9	2.31 H	8	45.3	20.8
2	5460.00	52.8 AV	54.0	-1.2	2.31 H	8	32.0	20.8
3	#5470.00	67.4 PK	68.2	-0.8	2.31 H	8	46.6	20.8
4	*5550.00	118.5 PK			2.31 H	8	77.4	41.1
5	*5550.00	105.0 AV			2.31 H	8	63.9	41.1
6	11100.00	61.6 PK	74.0	-12.4	2.16 H	138	35.8	25.8
7	11100.00	48.3 AV	54.0	-5.7	2.16 H	138	22.5	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	3.80 V	123	43.6	20.8
2	5460.00	50.2 AV	54.0	-3.8	3.80 V	123	29.4	20.8
3	#5470.00	64.4 PK	68.2	-3.8	3.80 V	123	43.6	20.8
4	*5550.00	113.9 PK			3.80 V	123	72.8	41.1
5	*5550.00	101.3 AV			3.80 V	123	60.2	41.1
6	11100.00	61.3 PK	74.0	-12.7	3.66 V	258	35.5	25.8
7	11100.00	48.1 AV	54.0	-5.9	3.66 V	258	22.3	25.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	115.5 PK			2.19 H	23	74.1	41.4
2	*5670.00	103.3 AV			2.19 H	23	61.9	41.4
3	#5725.00	67.8 PK	68.2	-0.4	2.19 H	23	46.4	21.4
4	11340.00	61.4 PK	74.0	-12.6	2.20 H	134	35.9	25.5
5	11340.00	48.5 AV	54.0	-5.5	2.20 H	134	23.0	25.5
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	*5670.00	111.9 PK			3.69 V	126	70.5	41.4
2	*5670.00	99.1 AV			3.69 V	126	57.7	41.4
3	#5725.00	64.2 PK	68.2	-4.0	3.69 V	126	42.8	21.4
4	11340.00	61.0 PK	74.0	-13.0	3.67 V	253	35.5	25.5
5	11340.00	48.1 AV	54.0	-5.9	3.67 V	253	22.6	25.5

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	64.6 PK	74.0	-9.4	2.61 H	16	43.8	20.8
2	5460.00	52.0 AV	54.0	-2.0	2.61 H	16	31.2	20.8
3	#5470.00	67.8 PK	68.2	-0.4	2.61 H	16	47.0	20.8
4	*5530.00	110.7 PK			2.61 H	16	69.7	41.0
5	*5530.00	98.0 AV			2.61 H	16	57.0	41.0
6	11060.00	61.0 PK	74.0	-13.0	2.24 H	167	35.4	25.6
7	11060.00	48.5 AV	54.0	-5.5	2.24 H	167	22.9	25.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	3.68 V	126	41.4	20.8
2	5460.00	50.1 AV	54.0	-3.9	3.68 V	126	29.3	20.8
3	#5470.00	64.5 PK	68.2	-3.7	3.68 V	126	43.7	20.8
4	*5530.00	107.8 PK			3.68 V	126	66.8	41.0
5	*5530.00	95.0 AV			3.68 V	126	54.0	41.0
6	11060.00	60.9 PK	74.0	-13.1	3.66 V	254	35.3	25.6
7	11060.00	48.3 AV	54.0	-5.7	3.66 V	254	22.7	25.6

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	64.4 PK	74.0	-9.6	2.86 H	12	43.6	20.8
2	5460.00	52.3 AV	54.0	-1.7	2.86 H	12	31.5	20.8
3	#5470.00	67.6 PK	68.2	-0.6	2.86 H	12	46.8	20.8
4	*5610.00	114.6 PK			2.86 H	12	73.4	41.2
5	*5610.00	102.3 AV			2.86 H	12	61.1	41.2
6	#5725.00	67.8 PK	68.2	-0.4	2.86 H	12	46.4	21.4
7	11220.00	61.2 PK	74.0	-12.8	2.15 H	136	36.2	25.0
8	11220.00	48.4 AV	54.0	-5.6	2.15 H	136	23.4	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	5460.00	63.3 PK	74.0	-10.7	3.76 V	124	42.5	20.8
2	5460.00	50.5 AV	54.0	-3.5	3.76 V	124	29.7	20.8
3	#5470.00	65.2 PK	68.2	-3.0	3.76 V	124	44.4	20.8
4	*5610.00	111.5 PK			3.76 V	124	70.3	41.2
5	*5610.00	99.0 AV			3.76 V	124	57.8	41.2
6	#5725.00	65.7 PK	68.2	-2.5	3.76 V	124	44.3	21.4
7	11220.00	60.9 PK	74.0	-13.1	3.62 V	251	35.9	25.0
8	11220.00	48.1 AV	54.0	-5.9	3.62 V	251	23.1	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	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	#5650.00	62.3 PK	68.2	-5.9	2.30 H	23	40.8	21.5
2	*5745.00	119.2 PK			2.30 H	23	77.9	41.3
3	*5745.00	109.5 AV			2.30 H	23	68.2	41.3
4	#5936.00	62.2 PK	68.2	-6.0	2.30 H	23	40.0	22.2
5	11490.00	62.1 PK	74.0	-11.9	2.05 H	145	36.3	25.8
6	11490.00	49.5 AV	54.0	-4.5	2.05 H	145	23.7	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	61.6 PK	68.2	-6.6	3.86 V	118	40.1	21.5
2	*5745.00	116.4 PK			3.86 V	118	75.1	41.3
3	*5745.00	107.0 AV			3.86 V	118	65.7	41.3
4	#5928.80	62.3 PK	68.2	-5.9	3.86 V	118	40.2	22.1
5	11490.00	61.8 PK	74.0	-12.2	3.51 V	263	36.0	25.8
6	11490.00	49.0 AV	54.0	-5.0	3.51 V	263	23.2	25.8

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	#5642.00	62.5 PK	68.2	-5.7	2.33 H	24	40.9	21.6
2	*5785.00	119.4 PK			2.33 H	24	78.0	41.4
3	*5785.00	109.8 AV			2.33 H	24	68.4	41.4
4	#5930.80	62.9 PK	68.2	-5.3	2.33 H	24	40.5	22.4
5	11570.00	62.3 PK	74.0	-11.7	2.11 H	147	36.7	25.6
6	11570.00	49.5 AV	54.0	-4.5	2.11 H	147	23.9	25.6
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	#5641.20	61.3 PK	68.2	-6.9	3.88 V	120	39.9	21.4
2	*5785.00	116.8 PK			3.88 V	120	75.4	41.4
3	*5785.00	107.3 AV			3.88 V	120	65.9	41.4
4	#5926.40	62.3 PK	68.2	-5.9	3.88 V	120	40.2	22.1
5	11570.00	61.7 PK	74.0	-12.3	3.47 V	261	36.1	25.6
6	11570.00	49.0 AV	54.0	-5.0	3.47 V	261	23.4	25.6

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	59.1 PK	68.2	-9.1	2.03 H	2	37.7	21.4
2	*5825.00	118.5 PK			2.03 H	2	77.0	41.5
3	*5825.00	109.3 AV			2.03 H	2	67.8	41.5
4	#5934.80	64.5 PK	68.2	-3.7	2.03 H	2	42.3	22.2
5	11650.00	62.4 PK	74.0	-11.6	2.19 H	152	37.4	25.0
6	11650.00	49.2 AV	54.0	-4.8	2.19 H	152	24.2	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	#5638.40	58.9 PK	68.2	-9.3	3.90 V	115	37.5	21.4
2	*5825.00	116.3 PK			3.90 V	115	74.8	41.5
3	*5825.00	106.8 AV			3.90 V	115	65.3	41.5
4	#5930.40	62.6 PK	68.2	-5.6	3.90 V	115	40.5	22.1
5	11650.00	61.9 PK	74.0	-12.1	3.43 V	258	36.9	25.0
6	11650.00	48.7 AV	54.0	-5.3	3.43 V	258	23.7	25.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	#5648.80	63.5 PK	68.2	-4.7	2.25 H	2	42.0	21.5
2	*5745.00	120.1 PK			2.25 H	2	78.8	41.3
3	*5745.00	108.3 AV			2.25 H	2	67.0	41.3
4	#5941.60	62.0 PK	68.2	-6.2	2.25 H	2	39.8	22.2
5	11490.00	63.6 PK	74.0	-10.4	2.08 H	144	37.8	25.8
6	11490.00	50.2 AV	54.0	-3.8	2.08 H	144	24.4	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	60.8 PK	68.2	-7.4	3.82 V	116	39.4	21.4
2	*5745.00	117.5 PK			3.82 V	116	76.2	41.3
3	*5745.00	105.7 AV			3.82 V	116	64.4	41.3
4	#5931.20	61.6 PK	68.2	-6.6	3.82 V	116	39.5	22.1
5	11490.00	63.0 PK	74.0	-11.0	3.47 V	268	37.2	25.8
6	11490.00	49.8 AV	54.0	-4.2	3.47 V	268	24.0	25.8

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.20	60.8 PK	68.2	-7.4	2.16 H	3	39.5	21.3
2	*5785.00	120.6 PK			2.16 H	3	79.2	41.4
3	*5785.00	108.7 AV			2.16 H	3	67.3	41.4
4	#5931.60	63.2 PK	68.2	-5.0	2.16 H	3	41.1	22.1
5	11570.00	63.1 PK	74.0	-10.9	2.05 H	148	37.5	25.6
6	11570.00	49.7 AV	54.0	-4.3	2.05 H	148	24.1	25.6
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	#5638.40	59.9 PK	68.2	-8.3	3.78 V	121	38.5	21.4
2	*5785.00	118.2 PK			3.78 V	121	76.8	41.4
3	*5785.00	105.8 AV			3.78 V	121	64.4	41.4
4	#5967.20	61.2 PK	68.2	-7.0	2.78 V	121	38.9	22.3
5	11570.00	62.6 PK	74.0	-11.4	3.52 V	258	37.0	25.6
6	11570.00	49.2 AV	54.0	-4.8	3.52 V	258	23.6	25.6

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

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	#5612.40	60.2 PK	68.2	-8.0	2.21 H	2	39.0	21.2
2	*5825.00	120.3 PK			2.21 H	2	78.8	41.5
3	*5825.00	107.6 AV			2.21 H	2	66.1	41.5
4	#5932.40	63.4 PK	68.2	-4.8	2.21 H	2	41.3	22.1
5	11650.00	62.2 PK	74.0	-11.8	2.14 H	145	37.2	25.0
6	11650.00	48.9 AV	54.0	-5.1	2.14 H	145	23.9	25.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5625.20	60.7 PK	68.2	-7.5	3.86 V	116	39.4	21.3
2	*5825.00	117.5 PK			3.86 V	116	76.0	41.5
3	*5825.00	105.2 AV			3.86 V	116	63.7	41.5
4	#5940.40	63.3 PK	68.2	-4.9	3.86 V	116	41.1	22.2
5	11650.00	61.8 PK	74.0	-12.2	3.42 V	261	36.8	25.0
6	11650.00	48.5 AV	54.0	-5.5	3.42 V	261	23.5	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 (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.80	63.1 PK	68.2	-5.1	2.24 H	2	41.7	21.4
2	*5755.00	118.6 PK			2.24 H	2	77.3	41.3
3	*5755.00	106.3 AV			2.24 H	2	65.0	41.3
4	#5967.60	62.8 PK	68.2	-5.4	2.24 H	2	40.5	22.3
5	11510.00	63.6 PK	74.0	-10.4	2.12 H	140	37.8	25.8
6	11510.00	50.0 AV	54.0	-4.0	2.12 H	140	24.2	25.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	61.0 PK	68.2	-7.2	3.79 V	117	39.5	21.5
2	*5755.00	116.5 PK			3.79 V	117	75.2	41.3
3	*5755.00	103.8 AV			3.79 V	117	62.5	41.3
4	#5982.40	61.5 PK	68.2	-6.7	3.79 V	117	39.2	22.3
5	11510.00	63.0 PK	74.0	-11.0	3.46 V	267	37.2	25.8
6	11510.00	49.6 AV	54.0	-4.4	3.46 V	267	23.8	25.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.00	60.6 PK	68.2	-7.6	2.22 H	10	19.2	41.4
2	*5795.00	118.4 PK			2.22 H	10	77.0	41.4
3	*5795.00	106.3 AV			2.22 H	10	64.9	41.4
4	#5938.40	63.1 PK	68.2	-5.1	2.22 H	10	40.9	22.2
5	11590.00	63.3 PK	74.0	-10.7	2.02 H	137	37.6	25.7
6	11590.00	49.9 AV	54.0	-4.1	2.02 H	137	24.2	25.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.20	60.3 PK	68.2	-7.9	3.85 V	117	38.9	21.4
2	*5795.00	116.4 PK			3.85 V	117	75.0	41.4
3	*5795.00	103.8 AV			3.85 V	117	62.4	41.4
4	#5953.20	61.7 PK	68.2	-6.5	3.85 V	117	39.5	22.2
5	11590.00	63.0 PK	74.0	-11.0	3.39 V	254	37.3	25.7
6	11590.00	49.5 AV	54.0	-4.5	3.39 V	254	23.8	25.7

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Rex Wang		

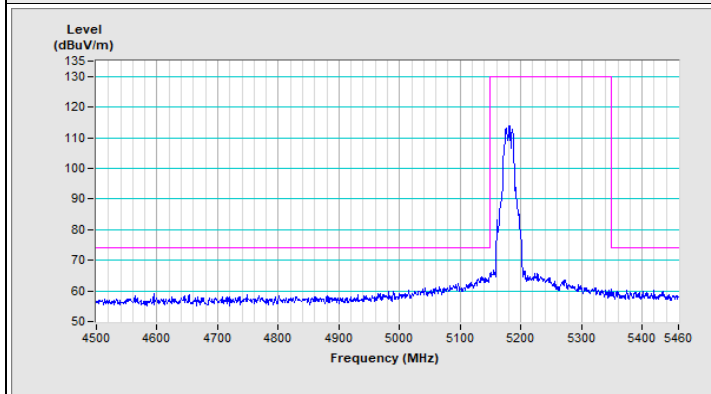
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.40	67.3 PK	68.2	-0.9	2.32 H	3	45.9	21.4
2	#5640.40	67.3 PK	68.2	-0.9	2.32 H	3	45.9	21.4
3	*5775.00	114.6 PK			2.32 H	3	73.2	41.4
4	*5775.00	102.0 AV			2.32 H	3	60.6	41.4
5	#5932.40	65.0 PK	68.2	-3.2	2.32 H	3	42.9	22.1
6	11550.00	63.0 PK	74.0	-11.0	2.07 H	140	37.4	25.6
7	11550.00	49.8 AV	54.0	-4.2	2.07 H	140	24.2	25.6
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	#5650.00	66.4 PK	68.2	-1.8	3.87 V	115	44.9	21.5
2	#5650.00	66.4 PK	68.2	-1.8	3.87 V	115	44.9	21.5
3	*5775.00	112.6 PK			3.87 V	115	71.2	41.4
4	*5775.00	99.8 AV			3.87 V	115	58.4	41.4
5	#5936.80	63.3 PK	68.2	-4.9	3.87 V	115	41.1	22.2
6	11550.00	62.5 PK	74.0	-11.5	3.52 V	260	36.9	25.6
7	11550.00	49.4 AV	54.0	-4.6	3.52 V	260	23.8	25.6

Remarks:

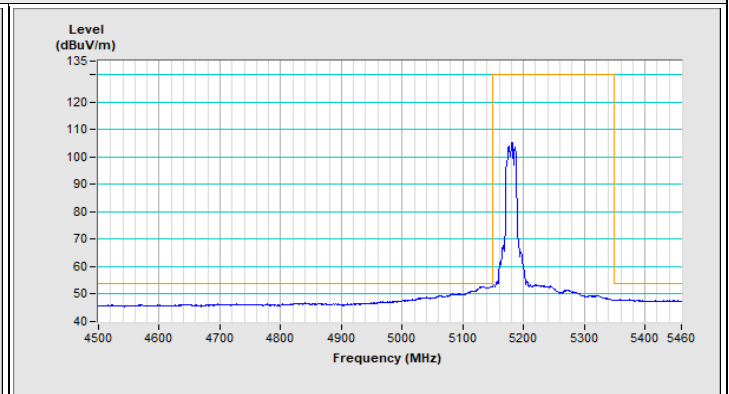
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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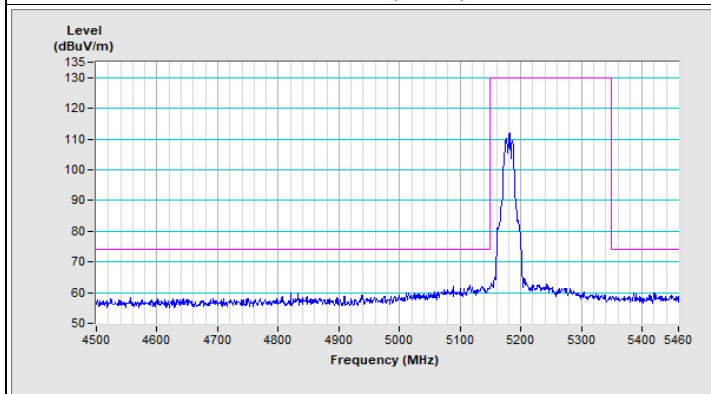
802.11a Channel 36



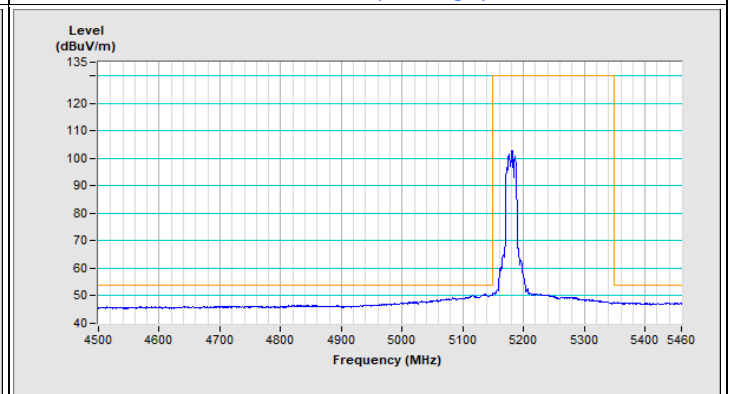
Horizontal (Peak)



Horizontal (Average)

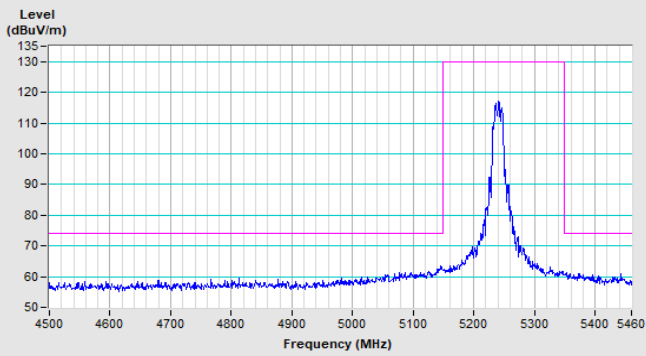


Vertical (Peak)

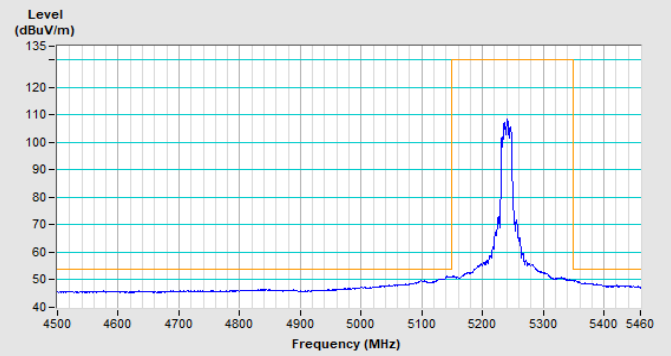


Vertical (Average)

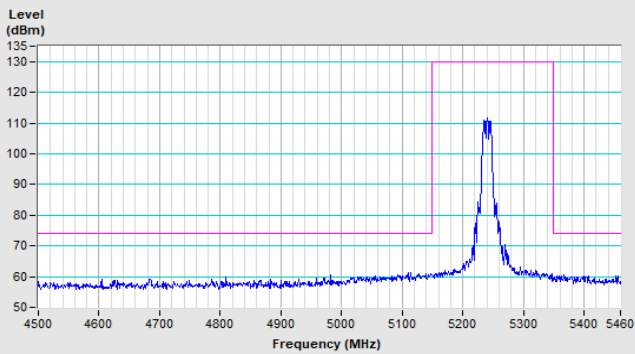
802.11a Channel 48



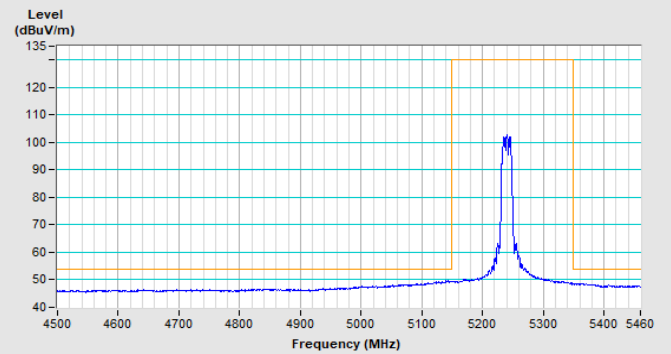
Horizontal (Peak)



Horizontal (Average)



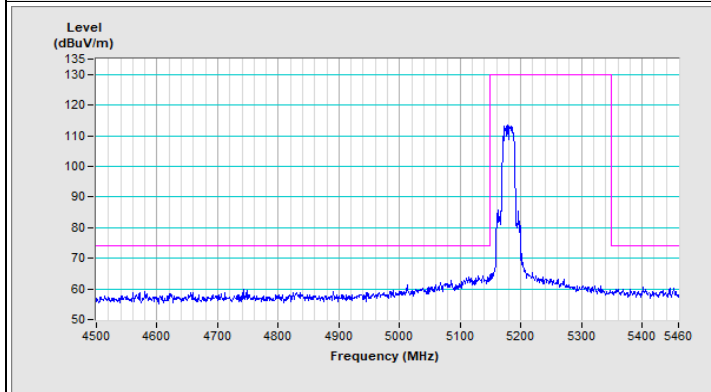
Vertical (Peak)



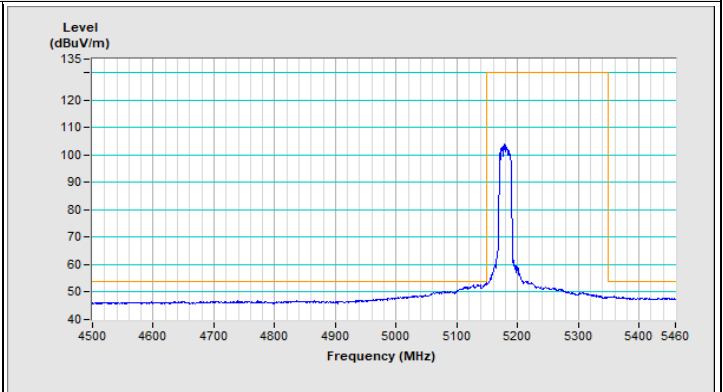
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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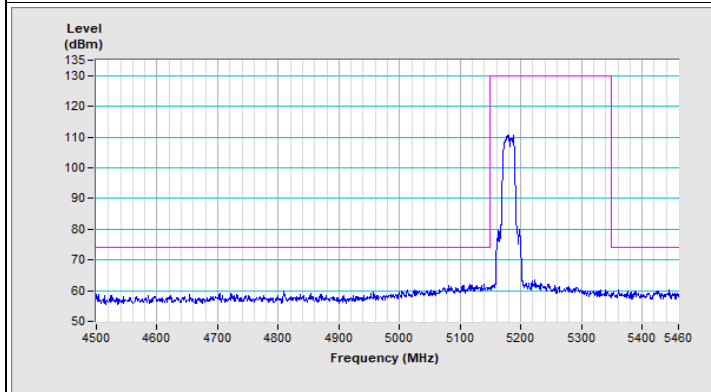
802.11ax (HE20) Channel 36



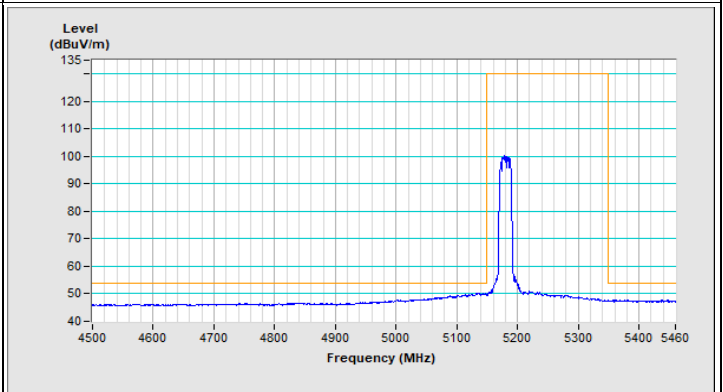
Horizontal (Peak)



Horizontal (Average)

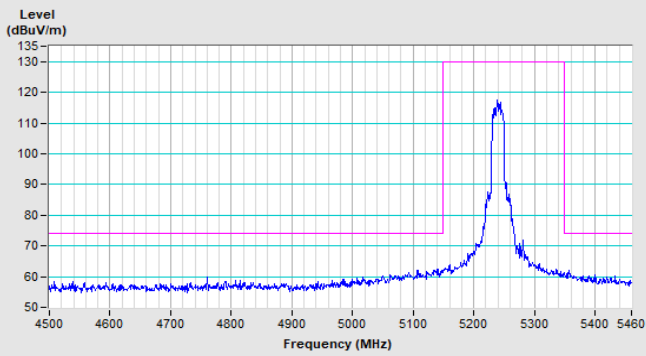


Vertical (Peak)

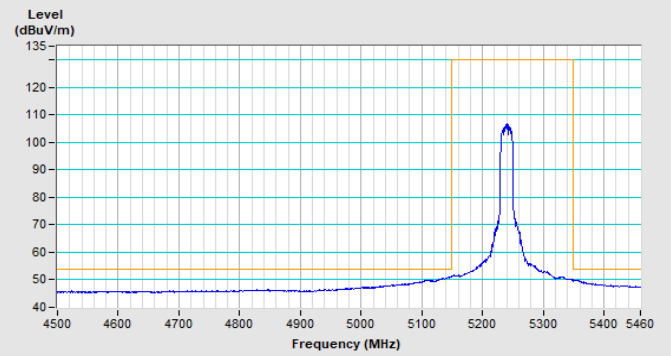


Vertical (Average)

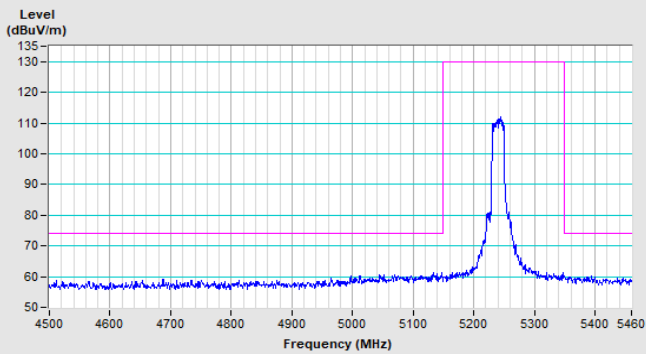
802.11ax (HE20) Channel 48



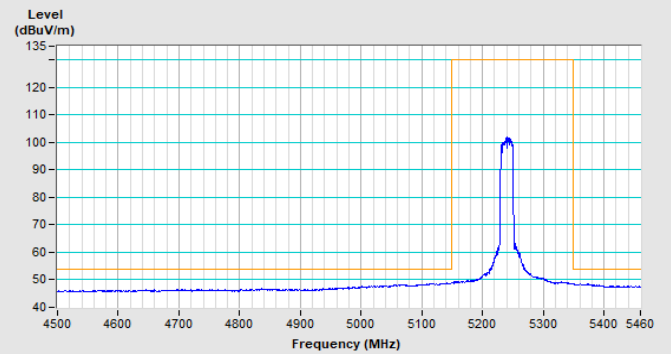
Horizontal (Peak)



Horizontal (Average)



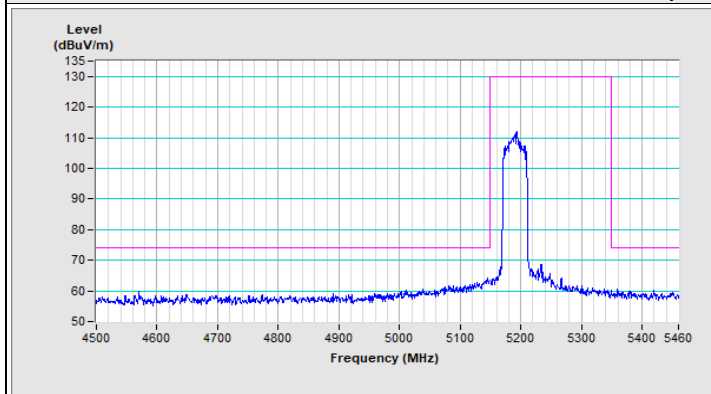
Vertical (Peak)



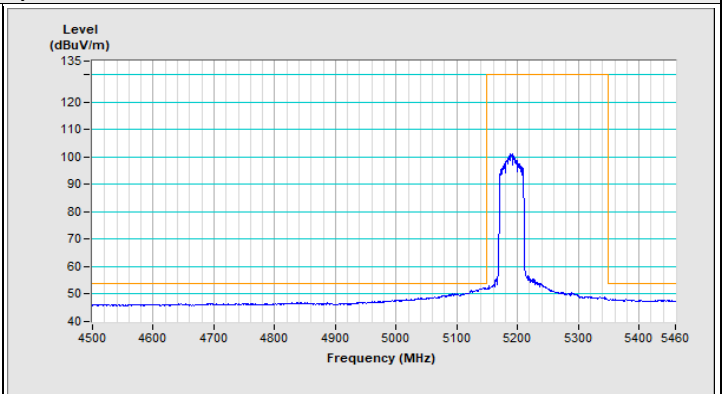
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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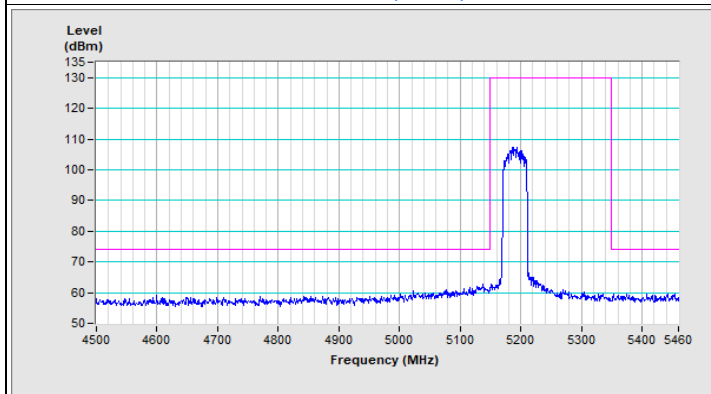
802.11ax (HE40) Channel 38



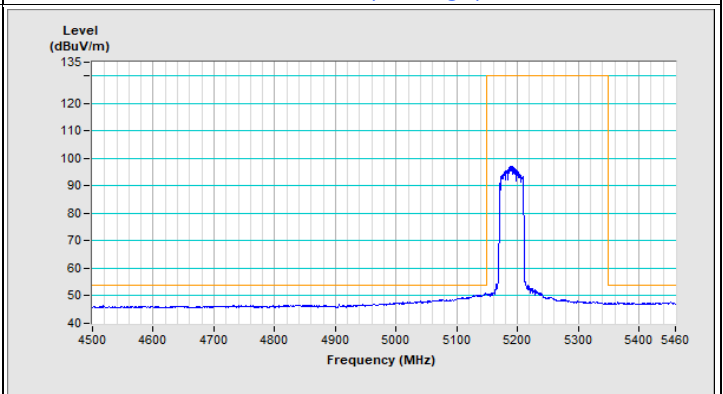
Horizontal (Peak)



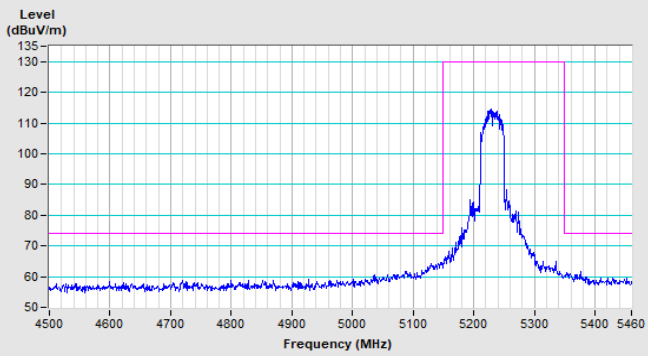
Horizontal (Average)



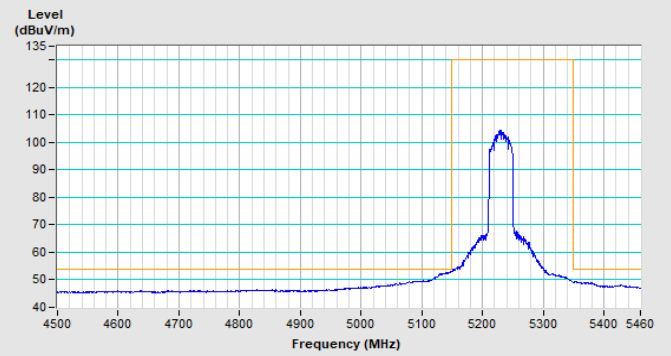
Vertical (Peak)



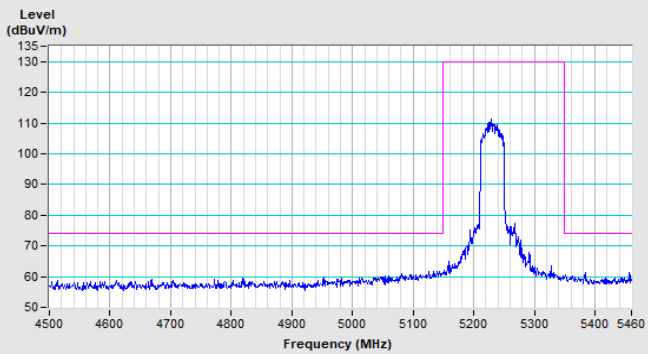
Vertical (Average)

802.11ax (HE40) Channel 46

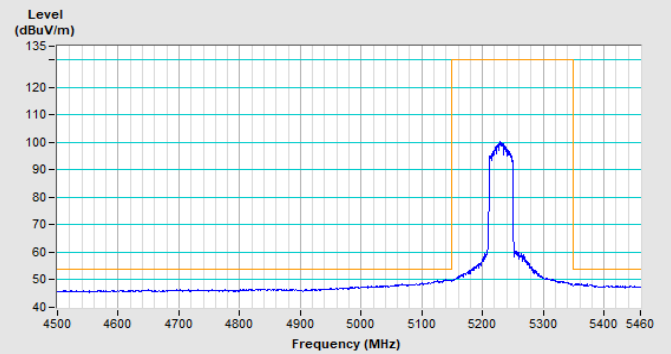
Horizontal (Peak)



Horizontal (Average)



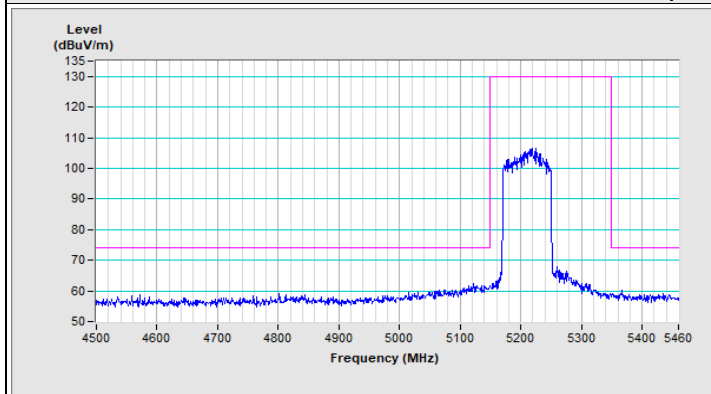
Vertical (Peak)



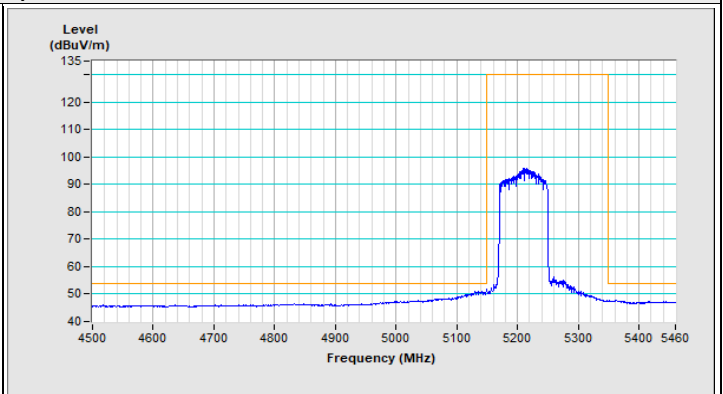
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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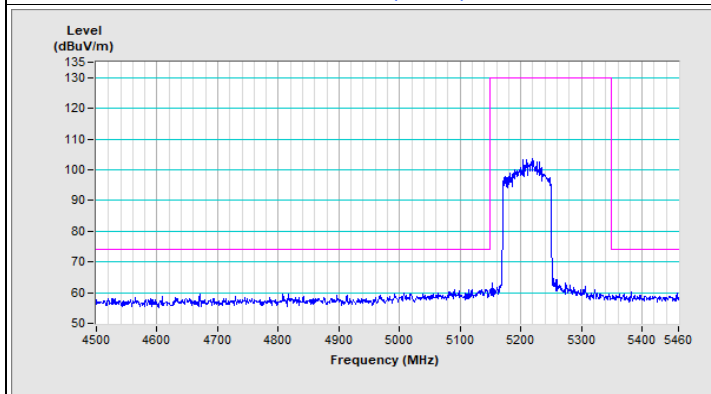
802.11ax (HE80) Channel 42



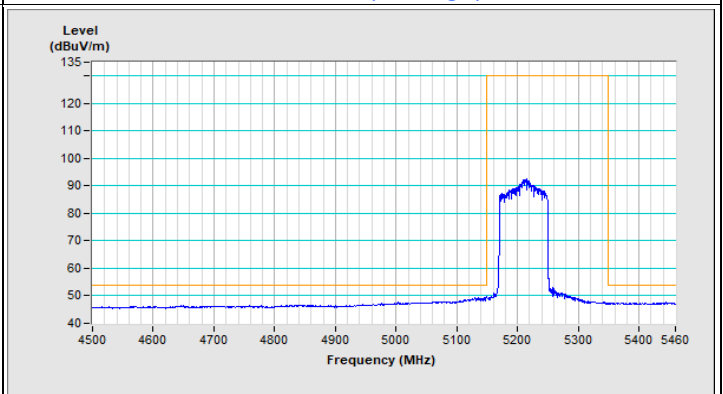
Horizontal (Peak)



Horizontal (Average)



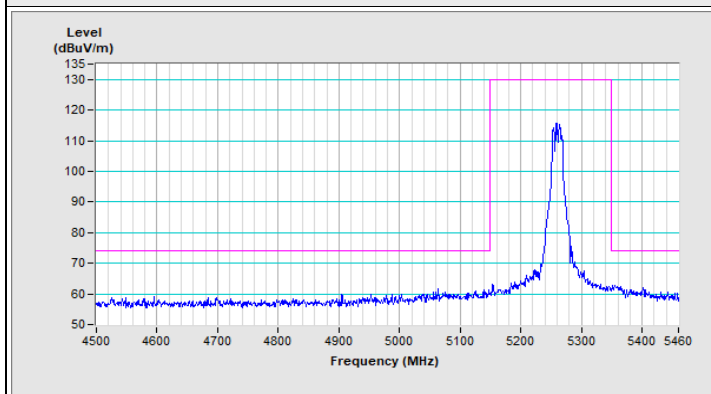
Vertical (Peak)



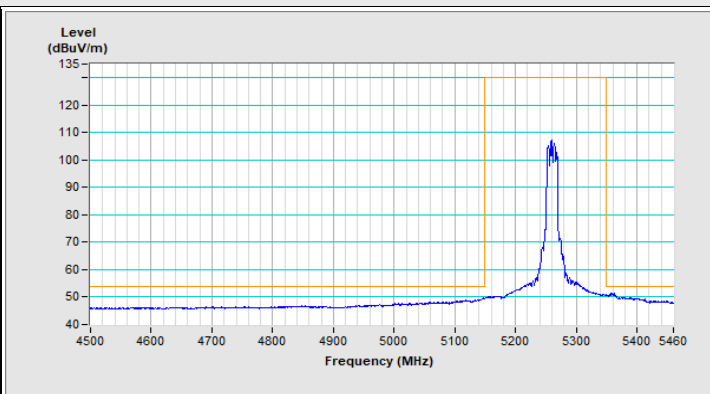
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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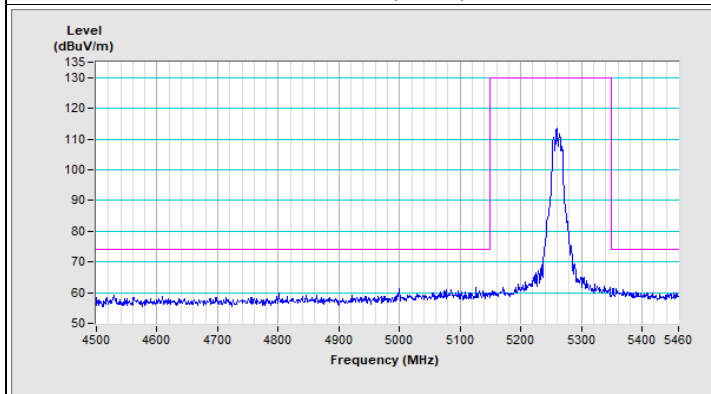
802.11a Channel 52



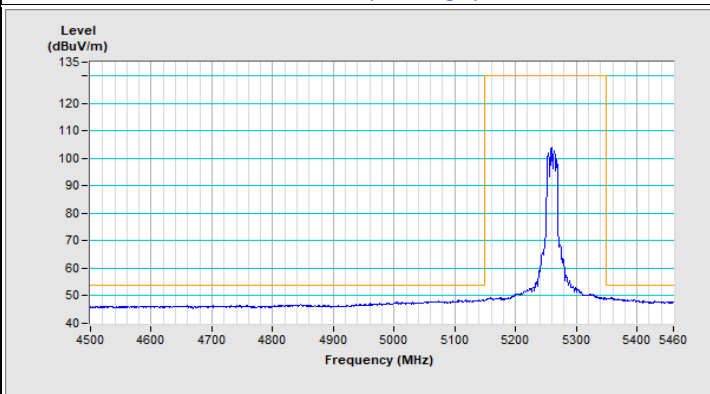
Horizontal (Peak)



Horizontal (Average)

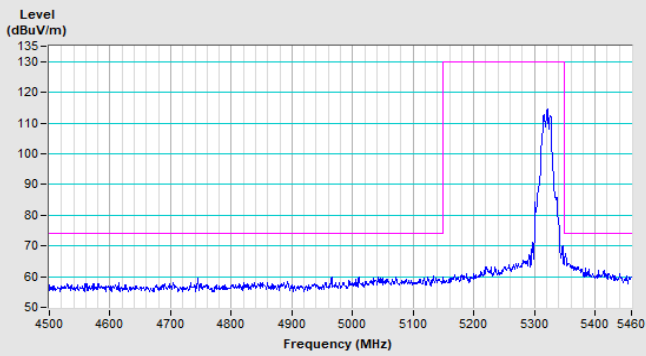


Vertical (Peak)

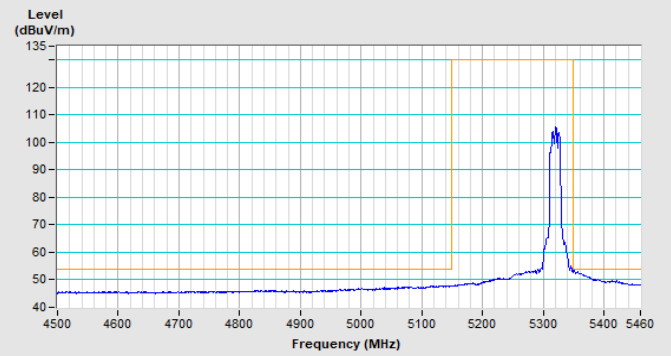


Vertical (Average)

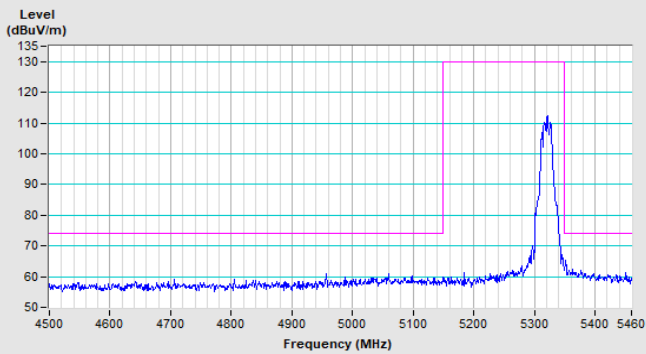
802.11a Channel 64



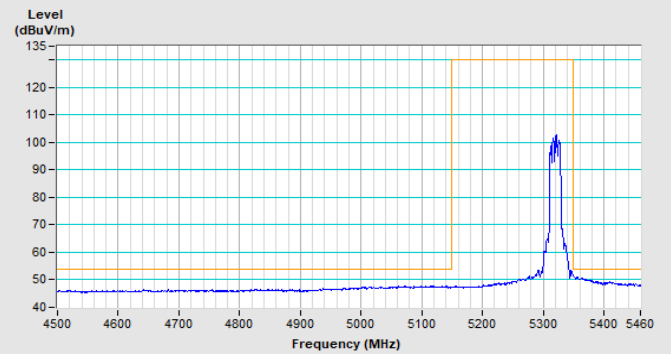
Horizontal (Peak)



Horizontal (Average)



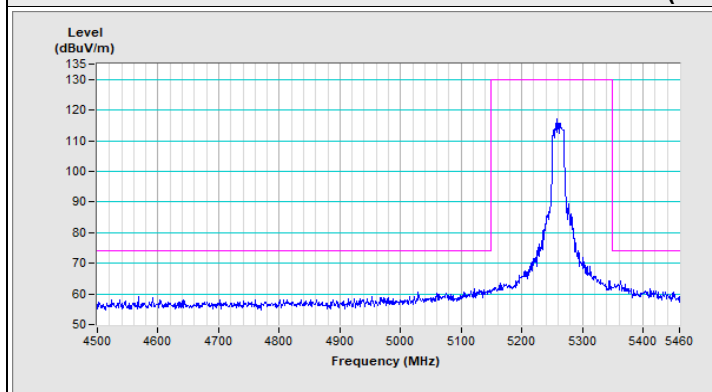
Vertical (Peak)



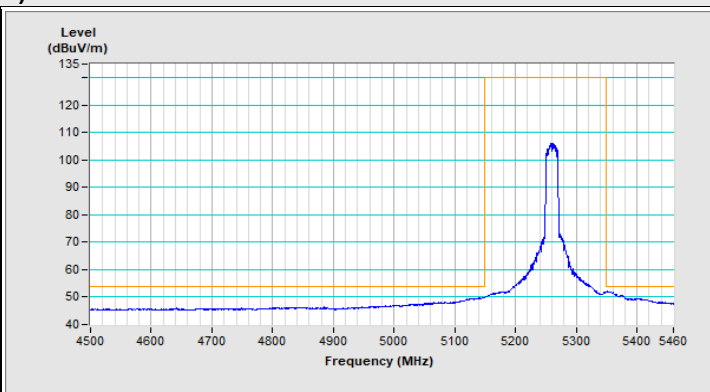
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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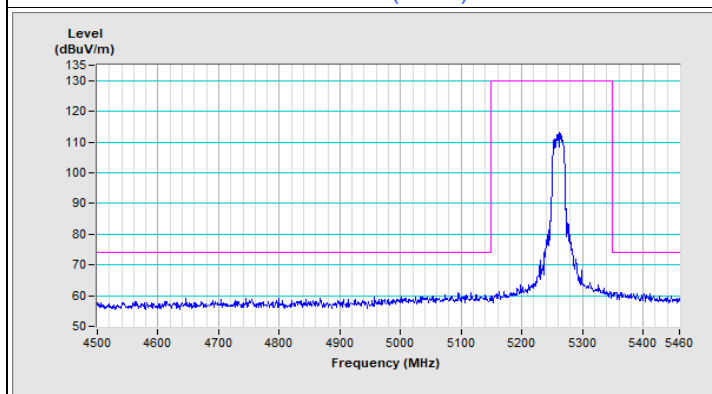
802.11ax (HE20) Channel 52



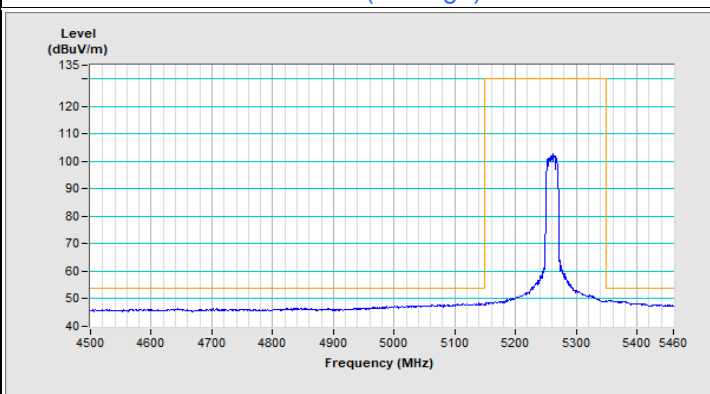
Horizontal (Peak)



Horizontal (Average)

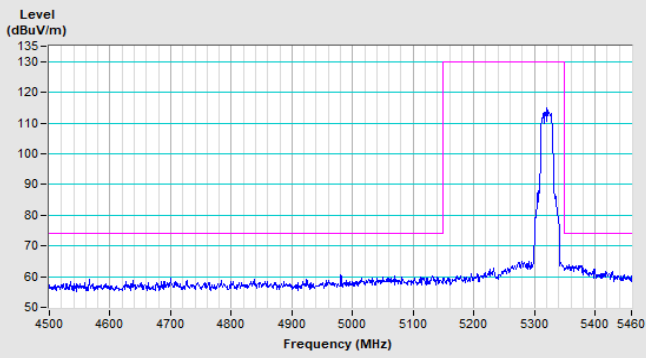


Vertical (Peak)

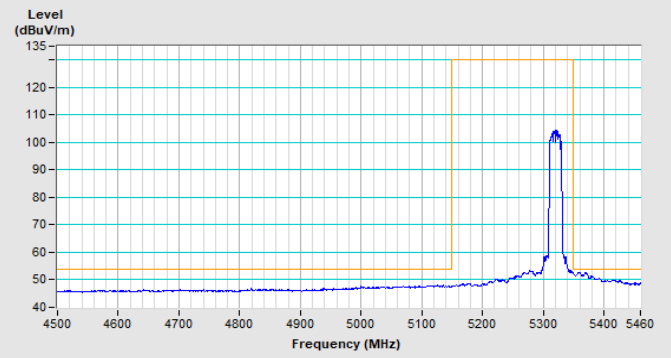


Vertical (Average)

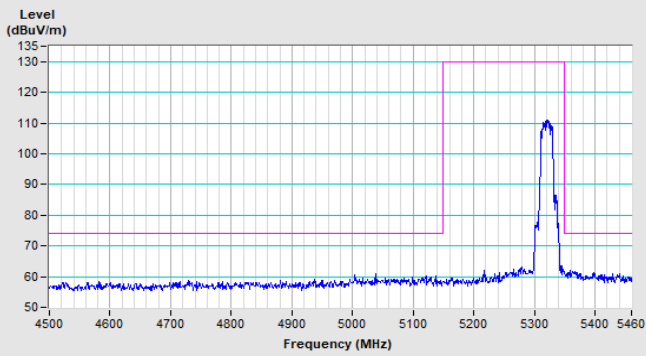
802.11ax (HE20) Channel 64



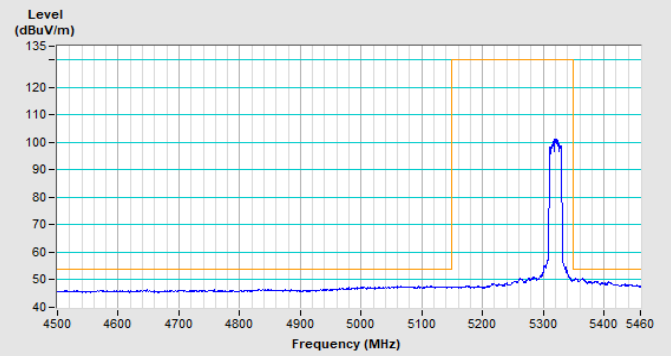
Horizontal (Peak)



Horizontal (Average)



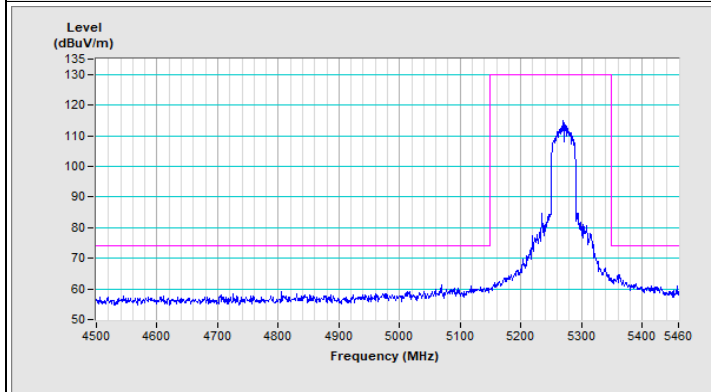
Vertical (Peak)



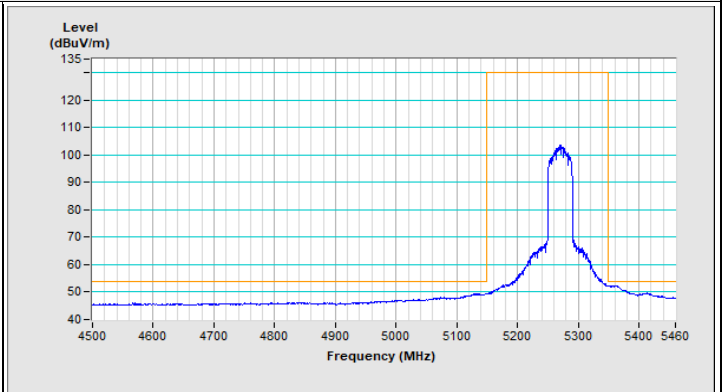
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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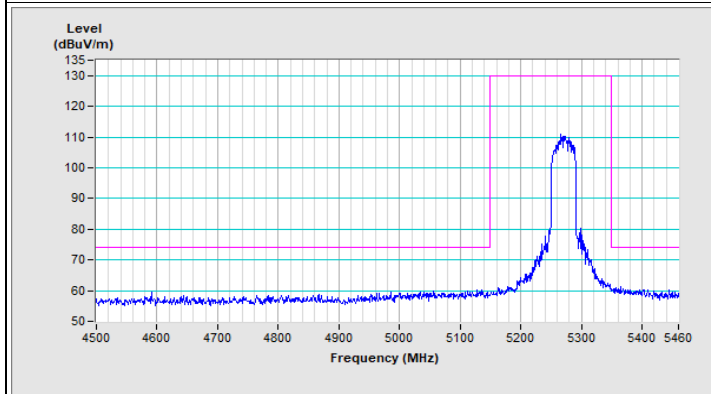
802.11ax (HE40) Channel 54



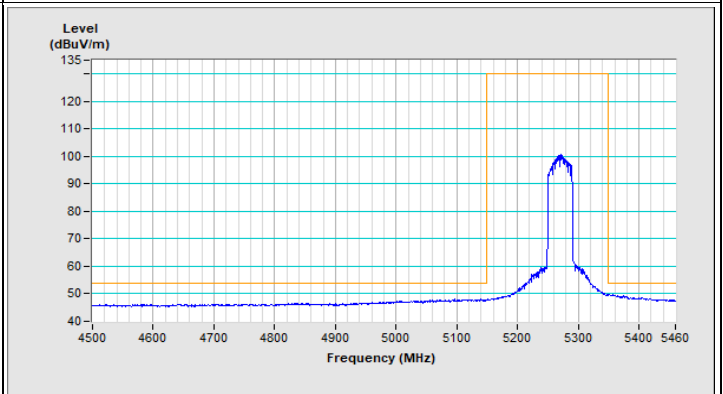
Horizontal (Peak)



Horizontal (Average)

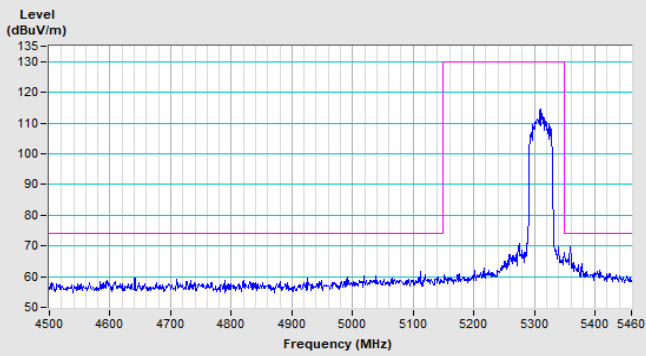


Vertical (Peak)

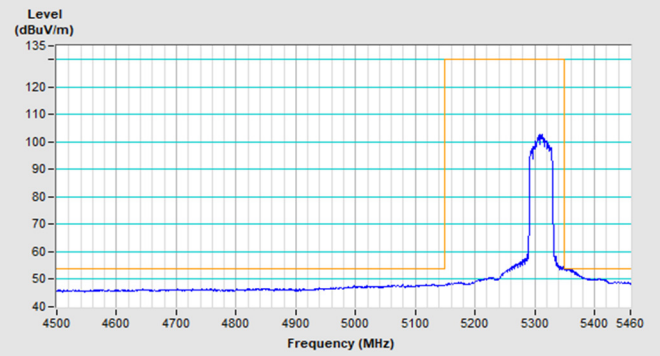


Vertical (Average)

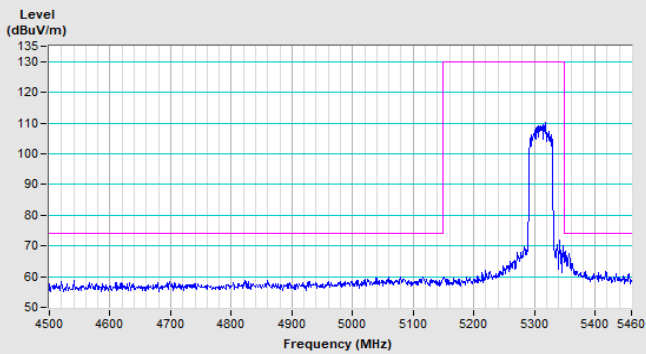
802.11ax (HE40) Channel 62



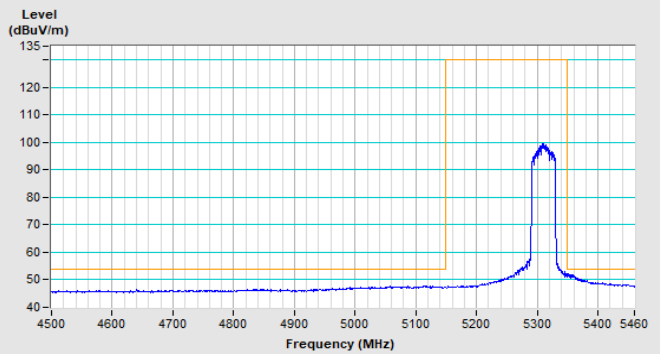
Horizontal (Peak)



Horizontal (Average)



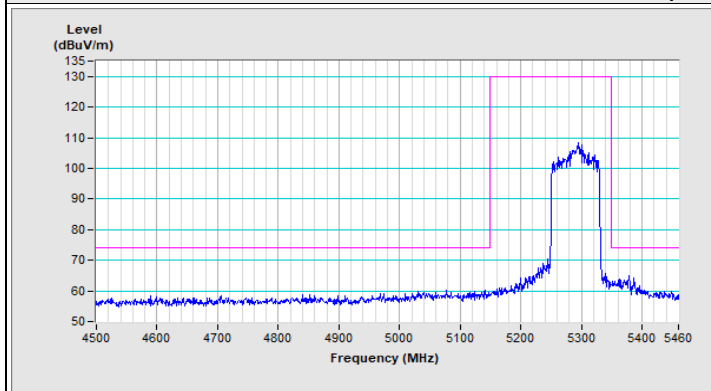
Vertical (Peak)



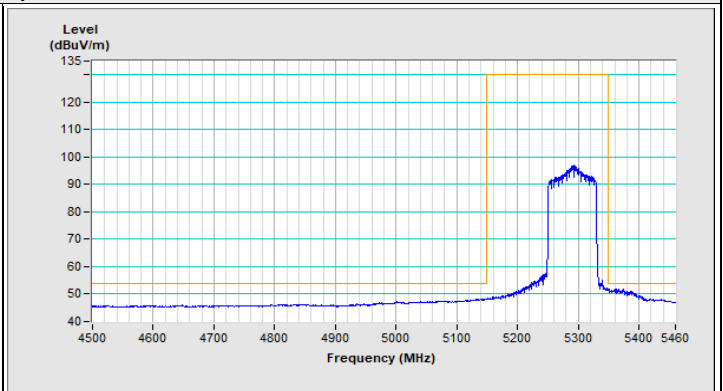
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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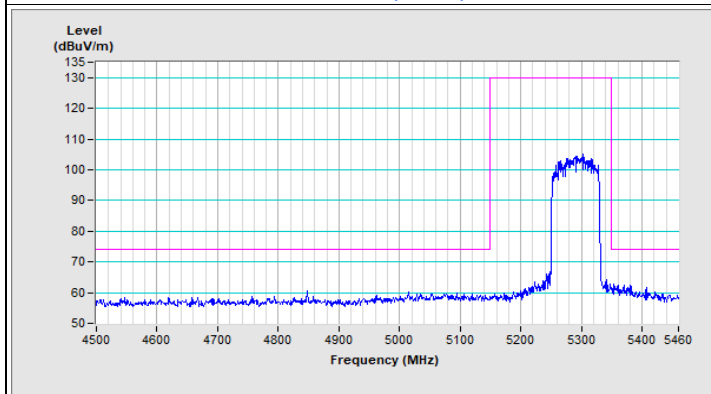
802.11ax (HE80) Channel 58



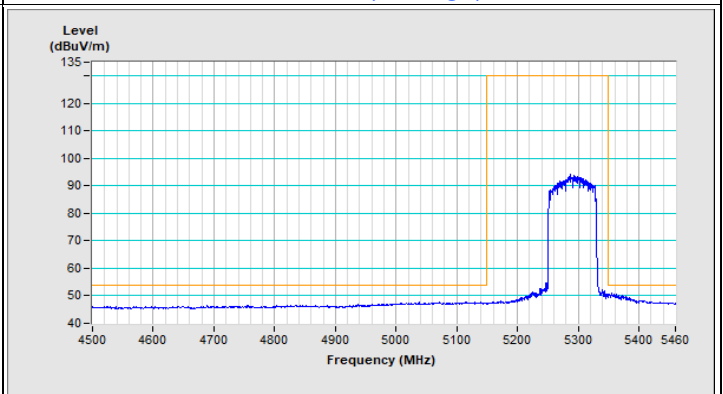
Horizontal (Peak)



Horizontal (Average)



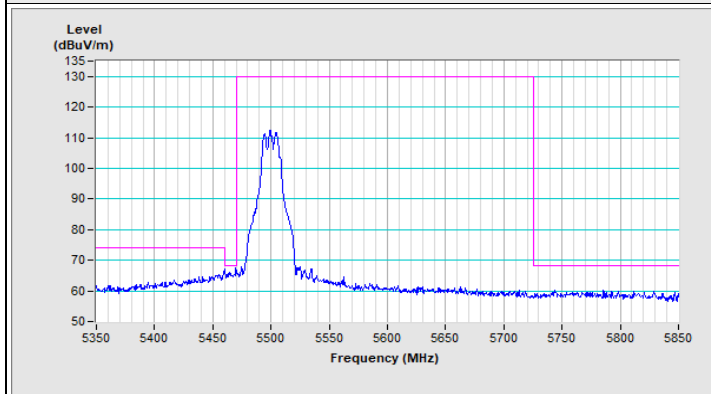
Vertical (Peak)



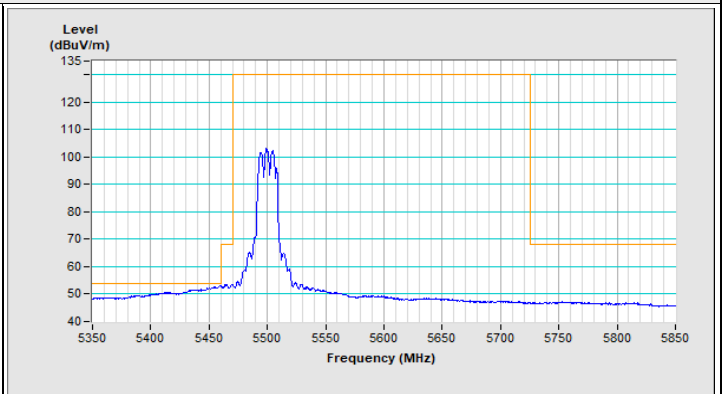
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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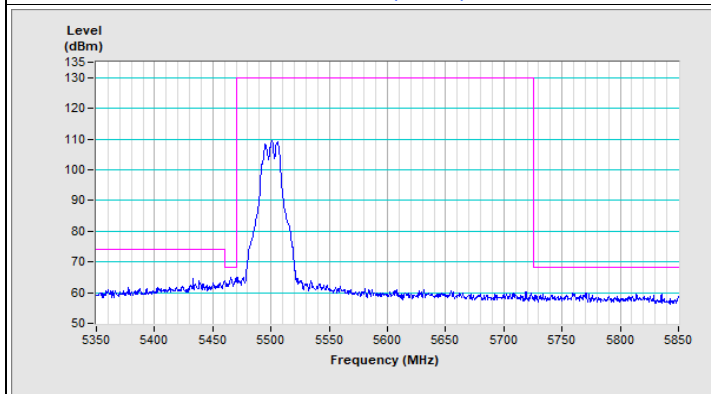
802.11a Channel 100



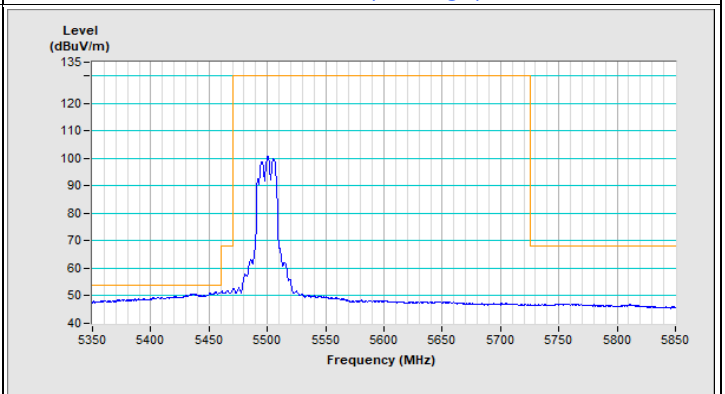
Horizontal (Peak)



Horizontal (Average)

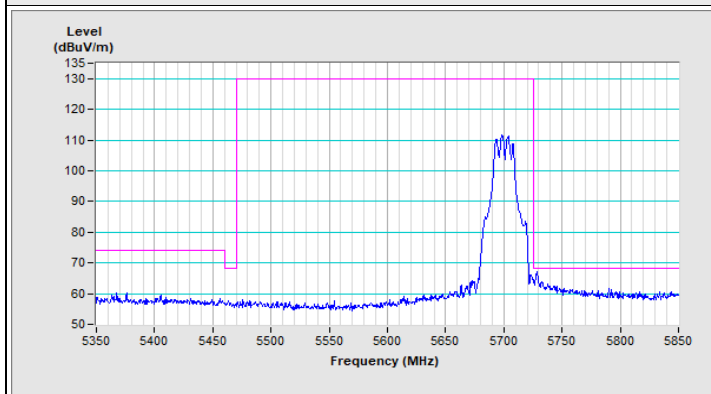


Vertical (Peak)

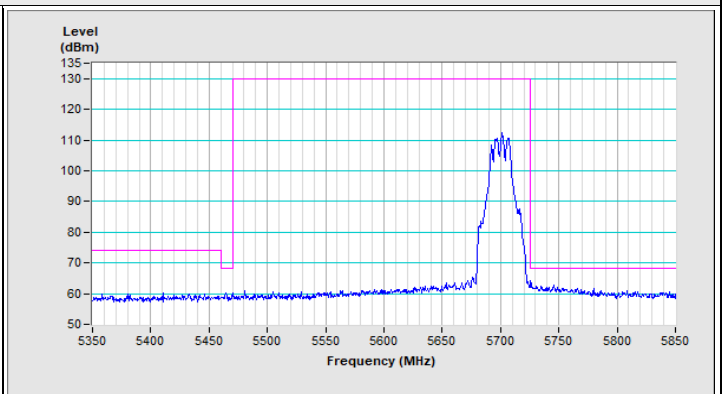


Vertical (Average)

802.11a Channel 140



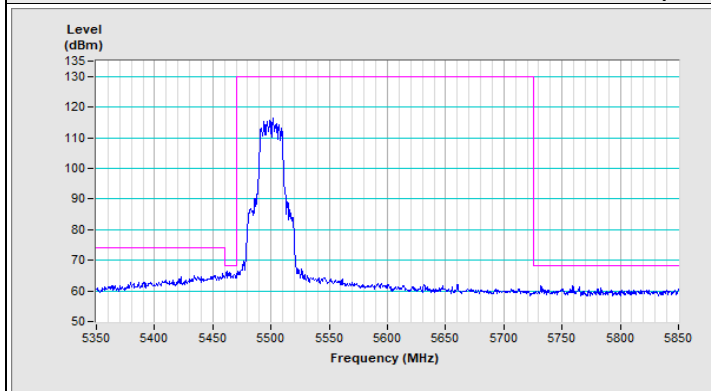
Horizontal (Peak)



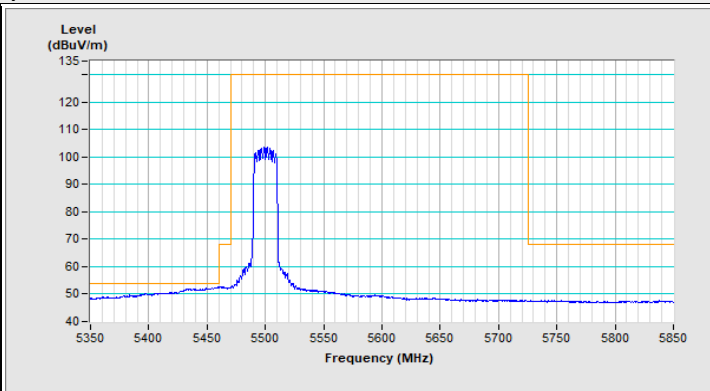
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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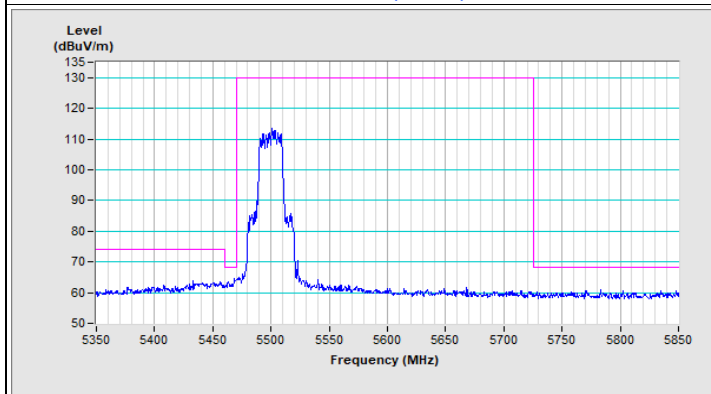
802.11ax (HE20) Channel 100



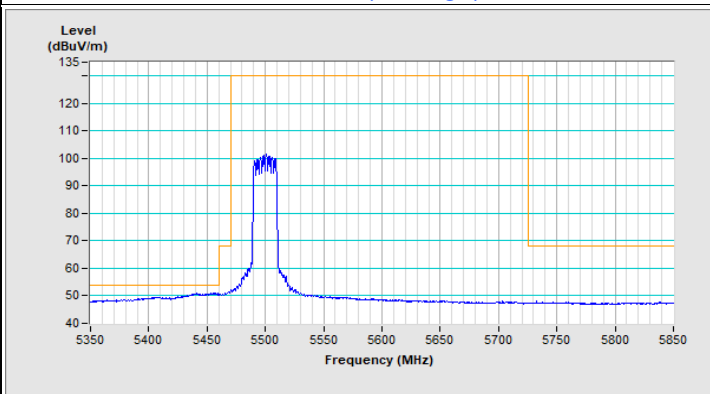
Horizontal (Peak)



Horizontal (Average)

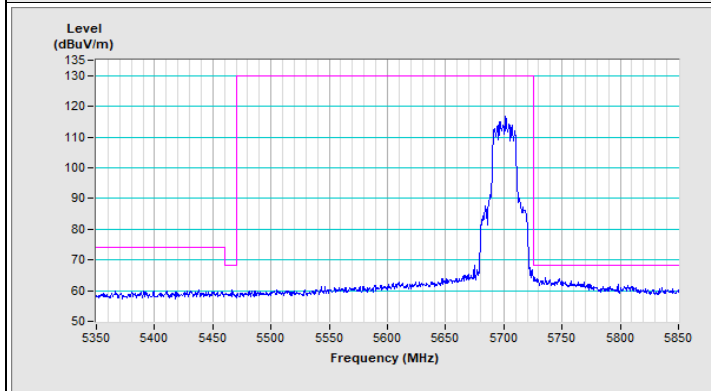


Vertical (Peak)

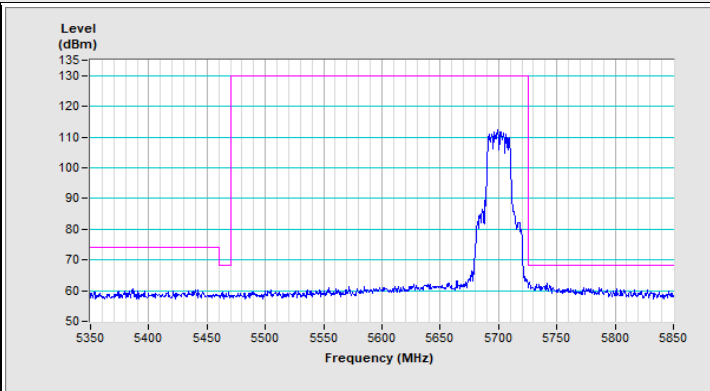


Vertical (Average)

802.11ax (HE20) Channel 140



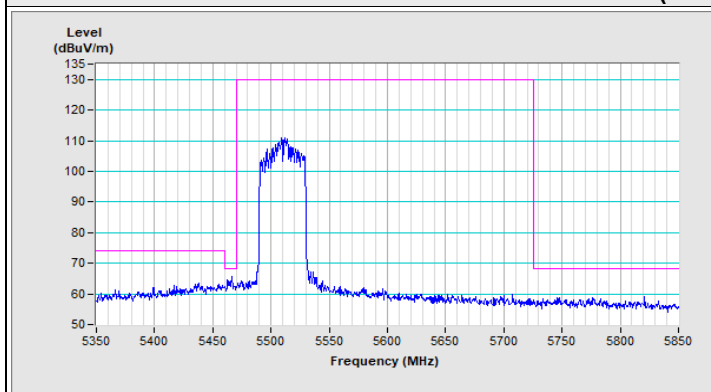
Horizontal (Peak)



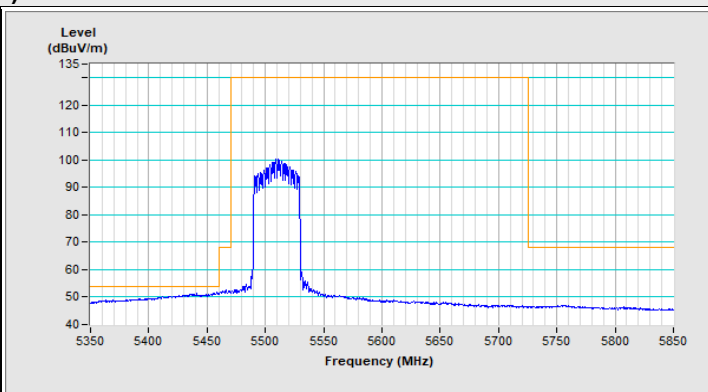
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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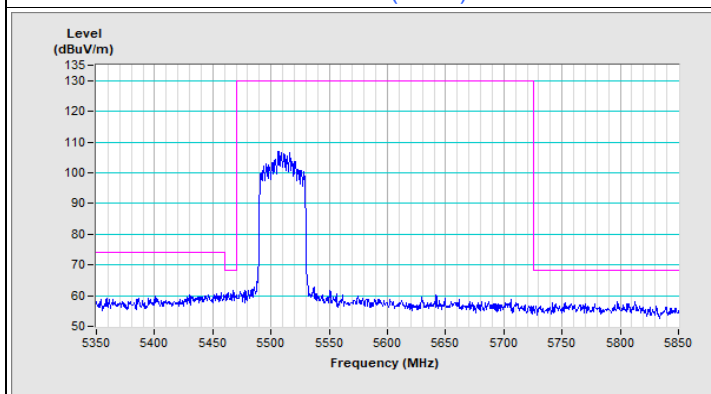
802.11ax (HE40) Channel 102



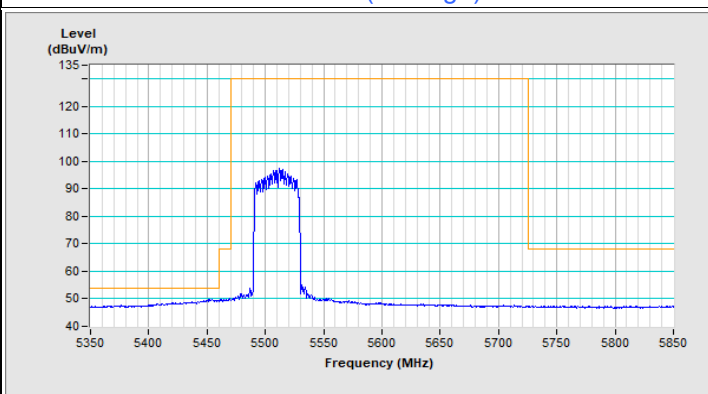
Horizontal (Peak)



Horizontal (Average)

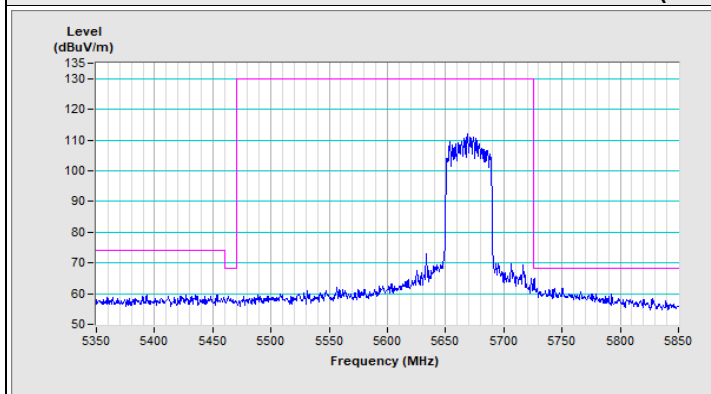


Vertical (Peak)

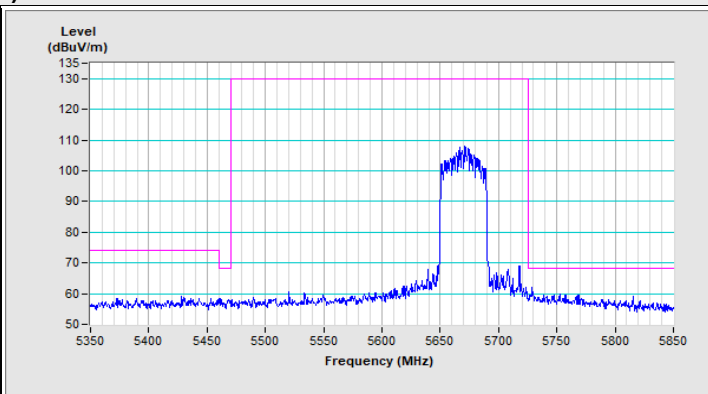


Vertical (Average)

802.11ax (HE40) Channel 134



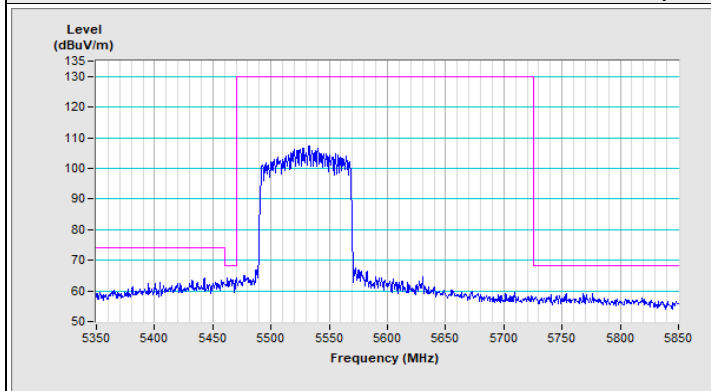
Horizontal (Peak)



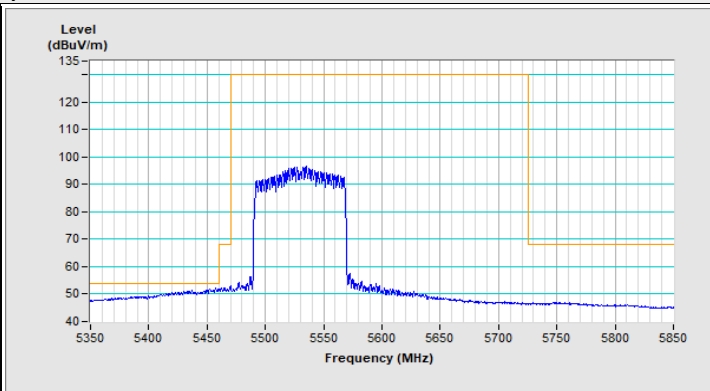
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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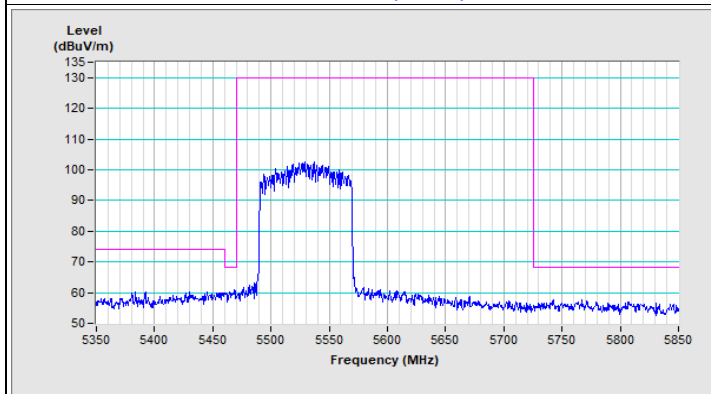
802.11ax (HE80) Channel 106



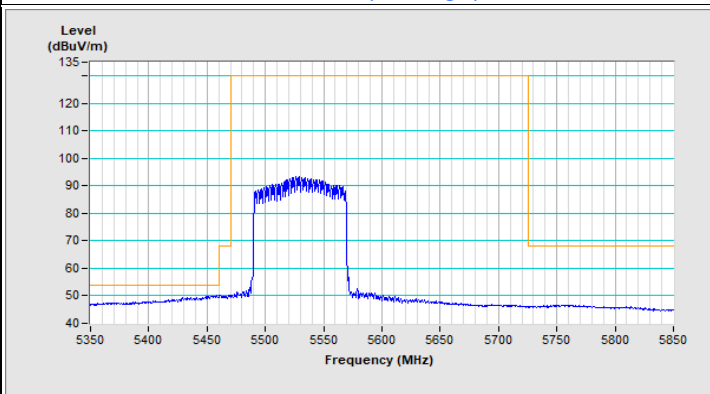
Horizontal (Peak)



Horizontal (Average)

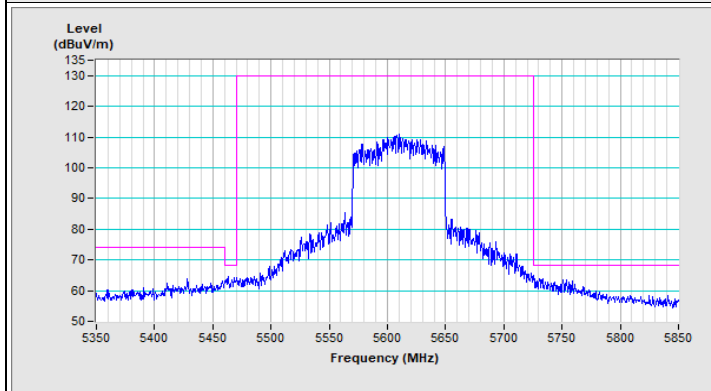


Vertical (Peak)

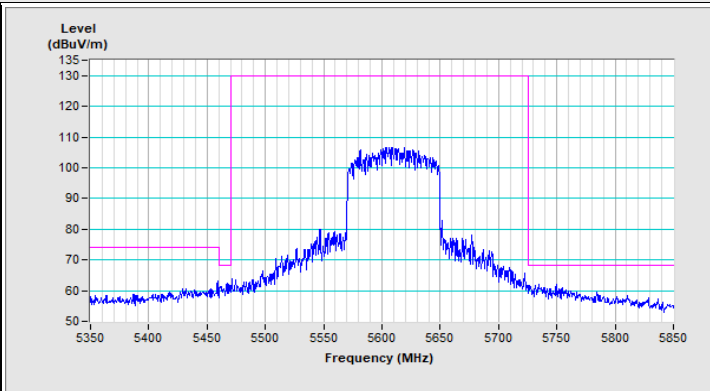


Vertical (Average)

802.11ax (HE80) Channel 122



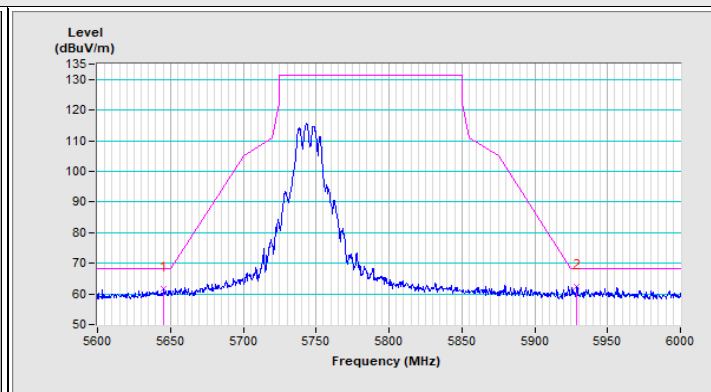
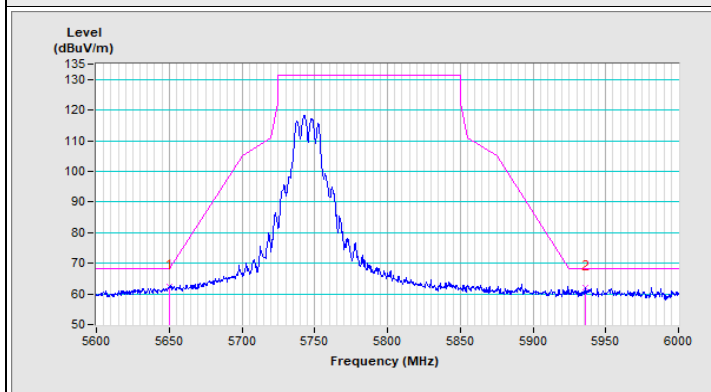
Horizontal (Peak)



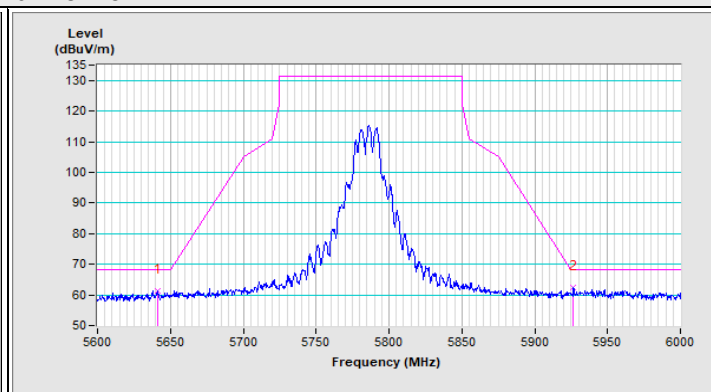
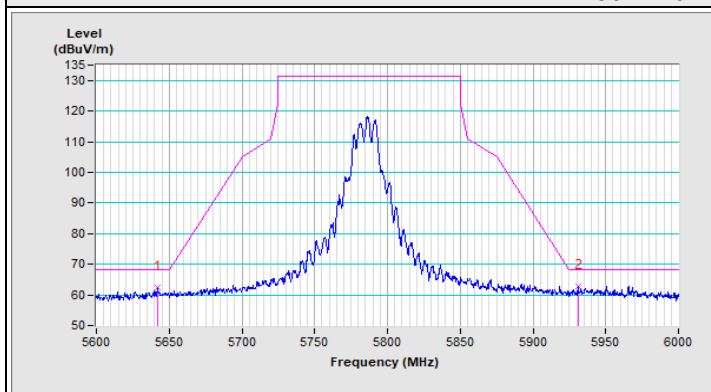
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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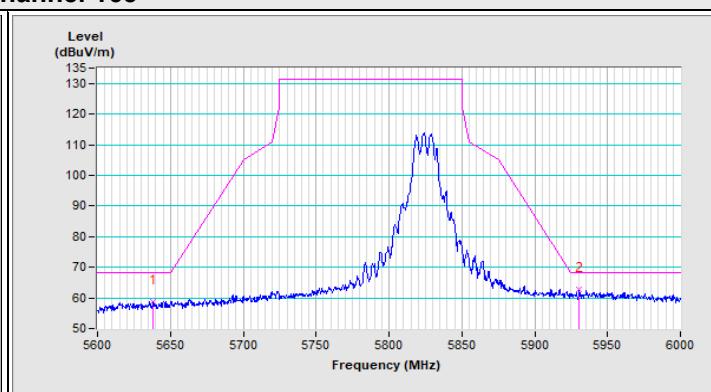
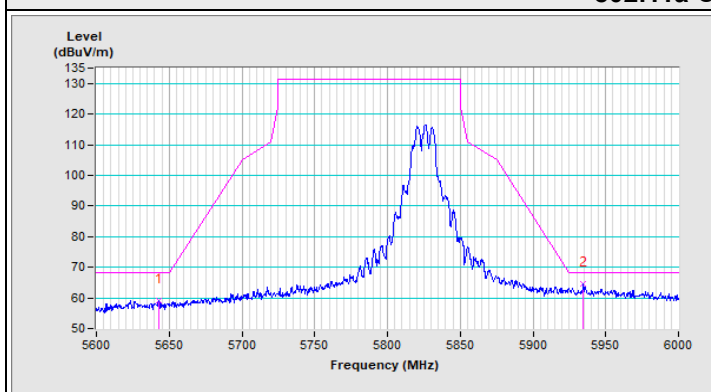
802.11a Channel 149



802.11a Channel 157

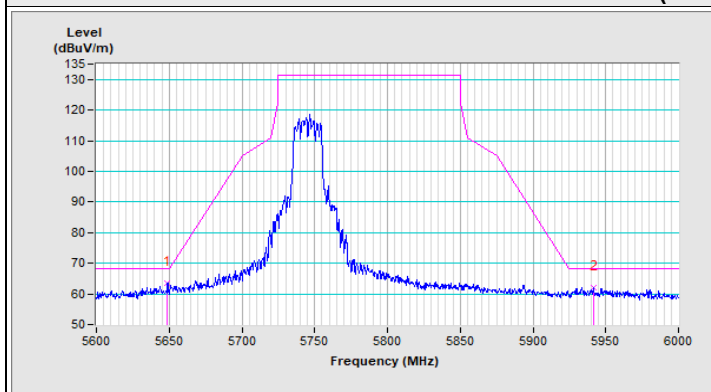


802.11a Channel 165

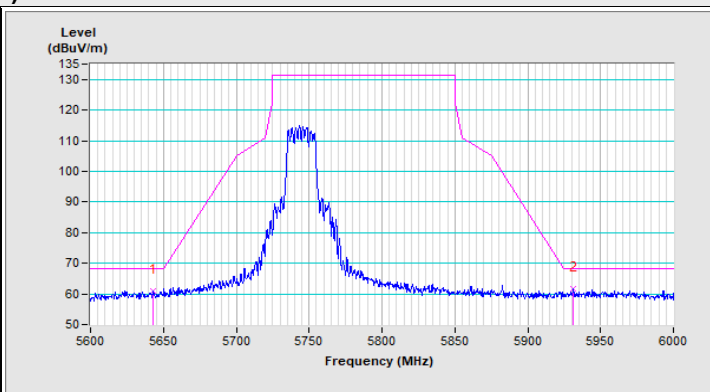


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE20) Channel 149

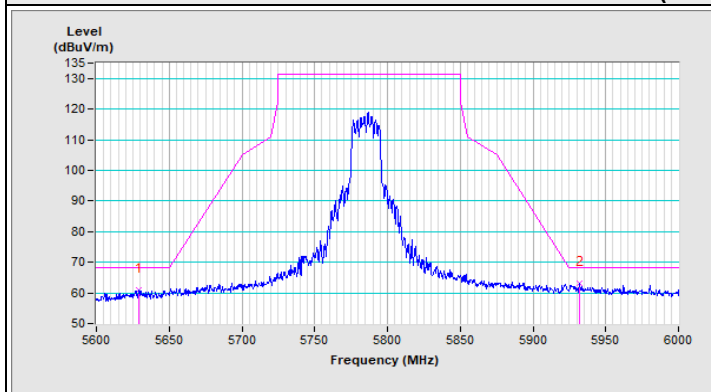


Horizontal (Peak)

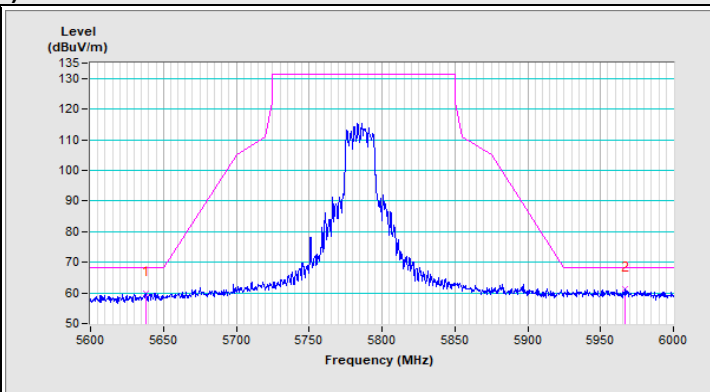


Vertical (Peak)

802.11ax (HE20) Channel 157

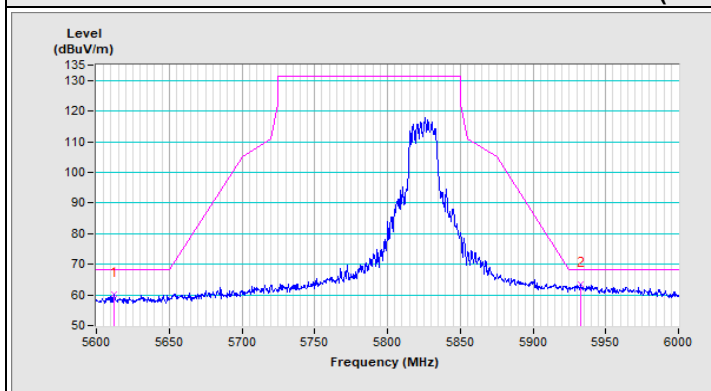


Horizontal (Peak)

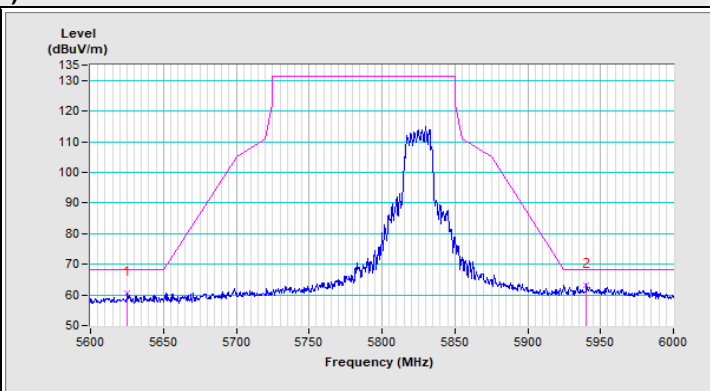


Vertical (Peak)

802.11ax (HE20) Channel 165



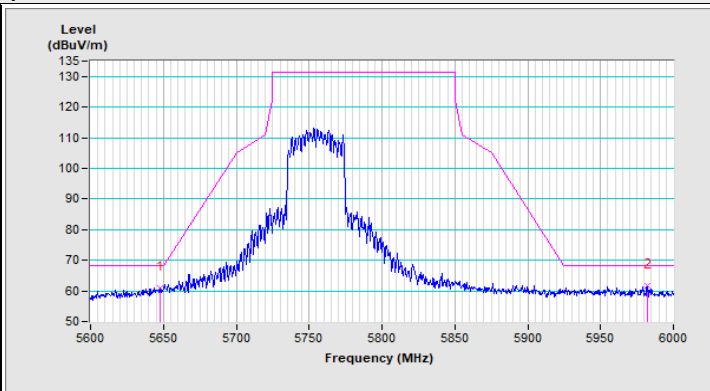
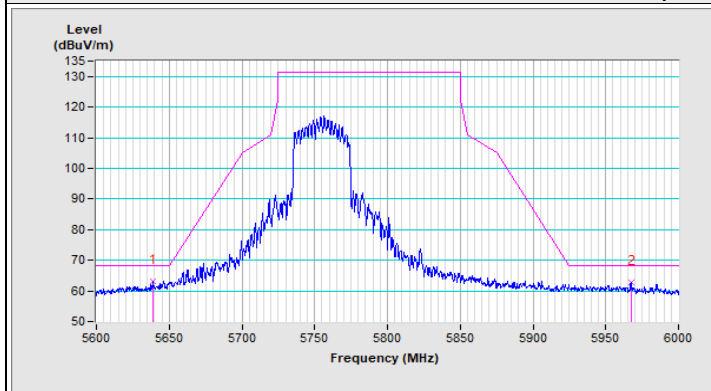
Horizontal (Peak)



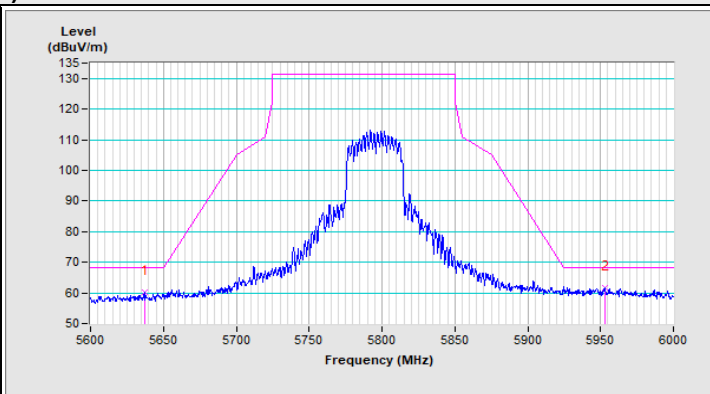
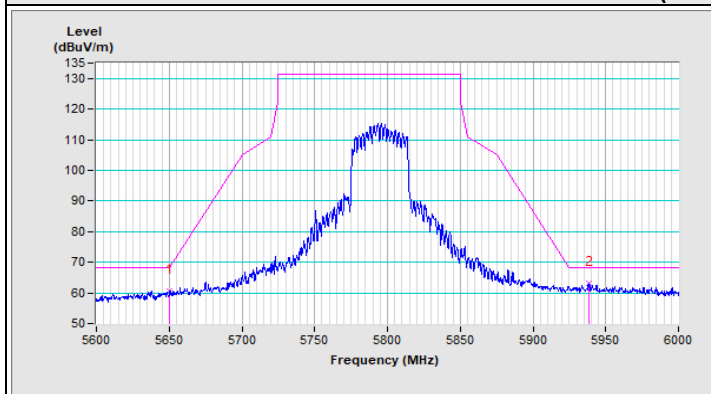
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

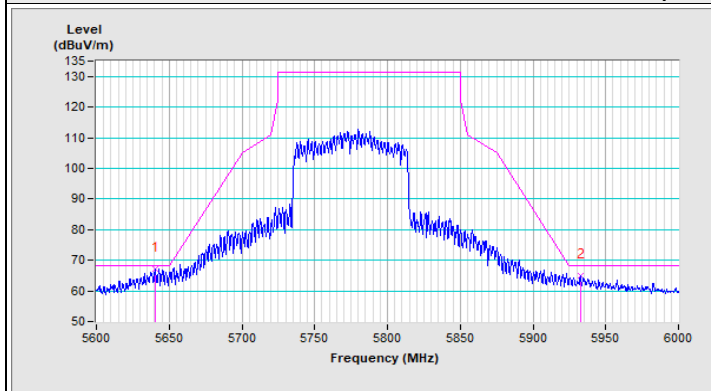


802.11ax (HE40) Channel 159

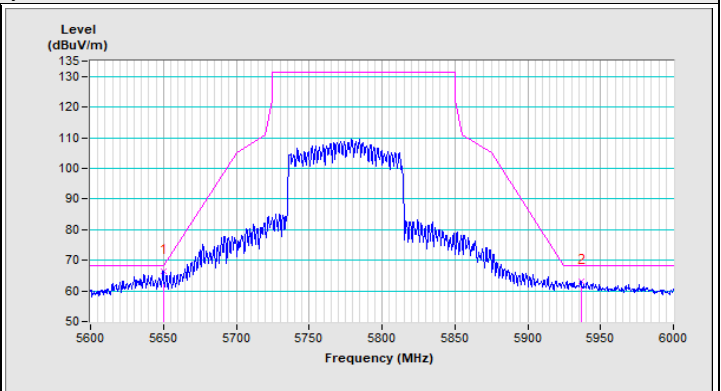


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155



Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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