

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCKS-WTW-P22051021-4

FCC ID: TVE-3918T05646

Product: Secured Wireless Access Point

Brand: FORTINET

Model No.: FAP-431G, FAP-433G

Variant Model: FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)

Received Date: 2022/5/31

Test Date: 2022/9/13 ~ 2022/11/3

Issued Date: 2022/11/14

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FCC Registration /

Designation Number(1): 788550 / TW0003

FCC Registration /

Designation Number(2): 281270 / TW0032

Approved by: _____

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Date: _____

2022/11/14

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P22051021-4	Original release.	2022/11/14

1 Certificate

Product: Secured Wireless Access Point

Brand: FORTINET

Test Model: FAP-431G, FAP-433G

Variant Model: FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: Fortinet, Inc.

Test Date: 2022/9/13 ~ 2022/11/3

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

Measurement ANSI C63.10-2013

procedure: KDB 291074 D02 EMC Measurement v01

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)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -5.03 dB at 0.58874 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.2 dB at 52.49 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 5647.37, 5931.90 MHz
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.403	Operational restrictions U-NII 4 devices	-	Declaration by applicant.
15.203	Antenna Requirement	Pass	For internal antenna: Antenna connector is ipex(MHF) not a standard connector. For external antenna: Antenna connector is R-SMA(ANT0 ~ ANT3) & ipex (ANT4 ~ ANT7) not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.00 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	Secured Wireless Access Point
Brand	FORTINET
Test Model	FAP-431G, FAP-433G
Variant Model	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter 55Vdc from PoE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4804 Mbps
Operating Frequency	5815 ~ 5885 MHz
Number of Channel	<u>Radio 2:</u> 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 <u>Radio 3:</u> 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 <u>Scanning Radio:</u> 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1

Output Power	<p>Model: FAP-431G:</p> <p>Radio 2: CDD: EIRP 2393.316 mW (33.79 dBm) Beamforming: EIRP 2328.091 mW (33.67 dBm)</p> <p>Radio 3: CDD: EIRP 1909.853 mW (32.81 dBm) Beamforming: EIRP 1729.816 mW (32.38 dBm)</p> <p>Scanning Radio: CDD: EIRP 1442.115 mW (31.59 dBm)</p> <p>Model: FAP-433G:</p> <p>Radio 3: CDD: EIRP 1035.142 mW (30.15 dBm) Beamforming: EIRP 3630.781 mW (35.60 dBm)</p> <p>Scanning Radio: CDD: EIRP 744.732 mW (28.72 dBm)</p>
EUT Category	Indoor access point

Note:

1. The following models are provided to this EUT. The model FAP-431G, FAP-433G were chosen for final test.

Brand	Test Model	Series Model	Difference
Fortinet	FAP-431G	FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	internal antenna
	FAP-433G	FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	external antenna

2. The EUT consumes power from the following adapter and POE.

Adapter (support units only)	
Brand	Asian Power Devices Inc.
Model	WA-48A12R
Input Power	100-240Vac, 50-60Hz, 1.5A Max
Output Power	12.0Vdc, 4.0A, 48.0W
Power Line	1.47m cable without core attached on adapter

POE (support units only)	
Brand	Microsemi
Model	PD-9501-10GC/AC
Input Power	100-240Vac, 50-60Hz, 1.5A Max
Output Power	55Vdc, 1.1A

- Radio 1, Radio 2, Radio 4 and (Radio 3 or Radio 3_Scanning Radio) can transmit simultaneously.
But Radio 1 (2.4G) and Radio 3_Scanning Radio (2.4G) cannot transmit simultaneously.
Radio 2 (5G), Radio 3 (5G) and Radio 3_Scanning Radio (5G) cannot transmit in the same band simultaneously.
Radio 3 (6G) and Radio 3_Scanning Radio (6G) cannot transmit in the same band simultaneously.
- 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.

Model	Radio	Chip	Mode	Antennas	Ant. Type	Bands Supported
FAP-433G	Radio 1	QCN-5124	4x4 MIMO	ANT 0/1/2/3	External	2.4GHz WLAN
	Radio 2	QCN-5154	4x4 MIMO	ANT 0/1/2/3	External	NII-1, 3 WLAN up to 80 MHz
	Radio 3_6G	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated (Non-detachable external antenna)	6GHz WLAN
	Radio 3_5GH	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated (Non-detachable external antenna)	NII-3 WLAN up to 80 MHz NII-4 WLAN up to 160 MHz
	Radio 3_Scanning	QCN-9074	2x2 MIMO	ANT 4/6	Integrated (Non-detachable external antenna)	2.4 GHz WLAN, NII-1, 3, 4 WLAN, 6GHz WLAN
	Radio 4	EFR32MG21	-	ANT 8	Integrated	BT / Zigbee
FAP-431G	Radio 1	QCN-5124	4x4 MIMO	ANT 0/1/2/3	Integrated	2.4GHz WLAN
	Radio 2	QCN-5154	4x4 MIMO	ANT 0/1/2/3	Integrated	NII-1, 3, 4 WLAN up to 80 MHz
	Radio 3_6G	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated	6GHz WLAN
	Radio 3_5GH	QCN-9074	4x4 MIMO	ANT 4/5/6/7	Integrated	NII-3 WLAN up to 80 MHz NII-4 WLAN up to 160 MHz
	Radio 3_Scanning	QCN-9074	2x2 MIMO	ANT 4/6	Integrated	2.4 GHz WLAN, NII-1, 3, 4 WLAN, 6GHz WLAN
	Radio 4	EFR32MG21	-	ANT 8	Integrated	BT / Zigbee

Model: FAP-431G

Antenna Type		PIFA			
Connector Type		ipex(MHF)			
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT0 (DB4)	Radio 1 2G CH0 Radio 2 5G CH0 Radio 2 5GL CH0	WNC	FortiAP-431G	1.41	2.4~2.4835GHz
				4.62	5.15~5.25GHz
				4.62	5.25~5.35GHz
				4.35	5.47~5.725GHz
				3.91	5.725~5.85GHz
				3.91	5.85~5.895GHz
ANT1 (DB3)	Radio 1 2G CH1 Radio 2 5G CH1 Radio 2 5GL CH1	WNC	FortiAP-431G	1.72	2.4~2.4835GHz
				3.38	5.15~5.25GHz
				3.61	5.25~5.35GHz
				3.72	5.47~5.725GHz
				3.72	5.725~5.85GHz
ANT2 (DB1)	Radio 1 2G CH2 Radio 2 5G CH2 Radio 2 5GL CH2	WNC	FortiAP-431G	1.54	2.4~2.4835GHz
				4.85	5.15~5.25GHz
				4.85	5.25~5.35GHz
				4.51	5.47~5.725GHz
				4.30	5.725~5.85GHz
ANT3 (DB2)	Radio 1 2G CH3 Radio 2 5G CH3 Radio 2 5GL CH3	WNC	FortiAP-431G	4.30	5.85~5.895GHz
				2.38	2.4~2.4835GHz
				3.48	5.15~5.25GHz
				3.52	5.25~5.35GHz
				3.58	5.47~5.725GHz
ANT4 (TB4)	Radio 3 5GH CH0 Radio 3 6G CH0 Scanning Radio (2/5/6G) CH0	WNC	FortiAP-431G	3.55	5.725~5.85GHz
				3.55	5.85~5.895GHz
				3.50	2.4~2.4835GHz
				4.98	5.15~5.25GHz
				4.98	5.25~5.35GHz
				4.98	5.47~5.725GHz
				4.50	5.725~5.85GHz
				4.50	5.85~5.895GHz
				4.80	5.925~6.425GHz
4.80	6.425~6.525GHz				
5.50	6.525~6.875GHz				
5.50	6.875~7.125GHz				

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT5 (TB1)	Radio 3 5GH CH1 Radio 3 6G CH1	WNC	FortiAP-431G	4.76	5.47~5.725GHz
				4.38	5.725~5.85GHz
				4.38	5.85~5.895GHz
				4.32	5.925~6.425GHz
				4.32	6.425~6.525GHz
				4.84	6.525~6.875GHz
				4.84	6.875~7.125GHz
ANT6 (TB2)	Radio 3 5GH CH2 Radio 3 6G CH2 Scanning Radio (2/5/6G) CH1	WNC	FortiAP-431G	2.58	2.4~2.4835GHz
				4.47	5.15~5.25GHz
				4.81	5.25~5.35GHz
				5.30	5.47~5.725GHz
				5.30	5.725~5.85GHz
				5.30	5.85~5.895GHz
				4.60	5.925~6.425GHz
				4.60	6.425~6.525GHz
				5.20	6.525~6.875GHz
ANT7 (TB3)	Radio 3 5GH CH3 Radio 3 6G CH3	WNC	FortiAP-431G	5.09	5.47~5.725GHz
				5.09	5.725~5.85GHz
				5.09	5.85~5.895GHz
				4.20	5.925~6.425GHz
				3.94	6.425~6.525GHz
				4.50	6.525~6.875GHz
				4.50	6.875~7.125GHz

Radio 1

Antenna Gain	Directional Gain (dBi)
2400~2483.5MHz	6.37

Radio 2

Antenna Gain	Directional Gain (dBi)
5150~5250MHz	6.94
5250~5350MHz	6.98
5470~5725MHz	6.06
5725~5850MHz	6.31
5850~5895MHz	6.03

Radio 3

Antenna Gain	Directional Gain (dBi)
5470~5725MHz	7.11
5725~5850MHz	6.91
5850~5895MHz	6.61
5925~6425MHz	6.37
6425~6525MHz	6.98
6525~6875MHz	7.11
6875~7125MHz	7.62

Scanning Radio

Antenna Gain	Directional Gain (dBi)
2400~2483.5MHz	0.84
5150~5250MHz	1.87
5250~5350MHz	1.82
5470~5725MHz	2.10
5725~5850MHz	1.57
5850~5895MHz	1.49
5925~6425MHz	4.51
6425~6525MHz	4.57
6525~6875MHz	5.03
6875~7125MHz	5.12

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

Model: FAP-433G

Antenna Type		Dipole			
Connector Type		R-SMA (ANT0 ~ ANT3); ipex (ANT4 ~ ANT7)			
Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT0	Radio 1 2G CH0 Radio 2 5G CH0 Radio 2 5GL CH0	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT1	Radio 1 2G CH1 Radio 2 5G CH1 Radio 2 5GL CH1	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT2	Radio 1 2G CH2 Radio 2 5G CH2 Radio 2 5GL CH2	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT3	Radio 1 2G CH3 Radio 2 5G CH3 Radio 2 5GL CH3	MAGLAYERS	EDA-1410-6G0R2-A3	5.65	2.4~2.4835GHz
				5.31	5.15~5.25GHz
				5.37	5.25~5.35GHz
				5.94	5.47~5.725GHz
				5.45	5.725~5.85GHz
ANT4	Radio 3 5GH CH0 Radio 3 6G CH0 Scanning Radio (2/5/6G) CH0	MAGLAYERS	BTEAWT14136G0C1A02	3.11	2.4~2.4835GHz
				2.27	5.15~5.25GHz
				2.27	5.25~5.35GHz
				2.81	5.47~5.725GHz
				2.81	5.725~5.85GHz
				2.81	5.85~5.895GHz
				2.55	5.925~6.425GHz
				2.55	6.425~6.525GHz
				2.74	6.525~6.875GHz
				2.74	6.875~7.125GHz

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range
ANT5	Radio 3 5GH CH1 Radio 3 6G CH1	MAGLAYERS	BTEAWT14136G0C1A02	2.81	5.47~5.725GHz
				2.81	5.725~5.85GHz
				2.81	5.85~5.895GHz
				2.55	5.925~6.425GHz
				2.55	6.425~6.525GHz
				2.74	6.525~6.875GHz
				2.74	6.875~7.125GHz
ANT6	Radio 3 5GH CH2 Radio 3 6G CH2 Scanning Radio (2/5/6G) CH1	MAGLAYERS	BTEAWT14136G0C1A01	2.81	2.4~2.4835GHz
				2.39	5.15~5.25GHz
				2.39	5.25~5.35GHz
				2.39	5.47~5.725GHz
				2.39	5.725~5.85GHz
				2.21	5.85~5.895GHz
				2.71	5.925~6.425GHz
				2.71	6.425~6.525GHz
				2.61	6.525~6.875GHz
ANT7	Radio 3 5GH CH3 Radio 3 6G CH3	MAGLAYERS	BTEAWT14136G0C1A01	2.39	5.47~5.725GHz
				2.39	5.725~5.85GHz
				2.21	5.85~5.895GHz
				2.71	5.925~6.425GHz
				2.71	6.425~6.525GHz
				2.61	6.525~6.875GHz
				2.61	6.875~7.125GHz

Radio 1

Antenna Gain	Directional Gain (dBi)
2400~2483.5MHz	6.59

Radio 2

Antenna Gain	Directional Gain (dBi)
5150~5250MHz	7.06
5250~5350MHz	7.16
5470~5725MHz	7.52
5725~5850MHz	7.16

Radio 3

Antenna Gain	Directional Gain (dBi)
5470~5725MHz	8.35
5725~5850MHz	8.26
5850~5895MHz	8.10
5925~6425MHz	7.12
6425~6525MHz	7.29
6525~6875MHz	7.33
6875~7125MHz	7.43

Scanning Radio

Antenna Gain	Directional Gain (dBi)
2400~2483.5MHz	1.41
5150~5250MHz	2.04
5250~5350MHz	2.09
5470~5725MHz	2.51
5725~5850MHz	2.30
5850~5895MHz	2.10
5925~6425MHz	4.48
6425~6525MHz	4.28
6525~6875MHz	4.76
6875~7125MHz	4.17

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

2. The EUT incorporates a MIMO function:

5 GHz Band			
Radio	Modulation Mode	Tx & Rx Configuration	
Radio 2	802.11a	4TX	4RX
	802.11n (HT20)	4TX	4RX
	802.11n (HT40)	4TX	4RX
	802.11ac (VHT20)	4TX	4RX
	802.11ac (VHT40)	4TX	4RX
	802.11ac (VHT80)	4TX	4RX
	802.11ax (HE20)	4TX	4RX
	802.11ax (HE40)	4TX	4RX
	802.11ax (HE80)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The EUT device modulation technique OFDMA does not support partial RUs (resource units).

5 GHz Band			
Radio	Modulation Mode	Tx & Rx Configuration	
Radio 3	802.11a	4TX	4RX
	802.11n (HT20)	4TX	4RX
	802.11n (HT40)	4TX	4RX
	802.11ac (VHT20)	4TX	4RX
	802.11ac (VHT40)	4TX	4RX
	802.11ac (VHT80)	4TX	4RX
	802.11ac (VHT160)	4TX	4RX
	802.11ax (HE20)	4TX	4RX
	802.11ax (HE40)	4TX	4RX
	802.11ax (HE80)	4TX	4RX
	802.11ax (HE160)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The EUT device modulation technique OFDMA does not support partial RUs (resource units).

5 GHz Band			
Radio	Modulation Mode	Tx & Rx Configuration	
Scanning Radio	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
	802.11ac (VHT160)	2TX	2RX
	802.11ax (HE20)	2TX	2RX
	802.11ax (HE40)	2TX	2RX
	802.11ax (HE80)	2TX	2RX
	802.11ax (HE160)	2TX	2RX

Note: The EUT device modulation technique OFDMA does not support partial RUs (resource units).

3.3 Channel List

For 5845 ~ 5885 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
*169	5845 MHz	173	5865 MHz	177	5885 MHz

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

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

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

Channel	Frequency
*163	5815 MHz

Note: * U-NII-3 & -4 span channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	Worst Condition: Y-axis (For Model: FAP-431G), X-axis (For Model: FAP-433G)

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A, C, G	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11n (HT20)	CDD & Beamforming	169, 173, 177	BPSK	MCS0
		802.11n (HT40)	CDD & Beamforming	167, 175	BPSK	MCS0
		802.11ac (VHT20)	CDD & Beamforming	169, 173, 177	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	167, 175	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	171	BPSK	MCS0
	C, G	802.11ac (VHT160)	CDD & Beamforming	163	BPSK	MCS0
	A, C, G	802.11ax (HE20)	CDD & Beamforming	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	171	BPSK	MCS0
	C, G	802.11ax (HE160)	CDD & Beamforming	163	BPSK	MCS0
	E, I	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11n (HT20)	CDD	169, 173, 177	BPSK	MCS0
		802.11n (HT40)	CDD	167, 175	BPSK	MCS0
		802.11ac (VHT20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ac (VHT40)	CDD	167, 175	BPSK	MCS0
		802.11ac (VHT80)	CDD	171	BPSK	MCS0
		802.11ac (VHT160)	CDD	163	BPSK	MCS0
		802.11ax (HE20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD	167, 175	BPSK	MCS0
802.11ax (HE80)		CDD	171	BPSK	MCS0	
802.11ax (HE160)		CDD	163	BPSK	MCS0	
Power Spectral Density	A, C, E, G, I	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD	171	BPSK	MCS0
	C, E, G, I	802.11ax (HE160)	CDD	163	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	A, C, E, G, I	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD	171	BPSK	MCS0
	C, E, G, I	802.11ax (HE160)	CDD	163	BPSK	MCS0
Frequency Stability	A, C, E, G, I	802.11a	CDD	169	un-modulation	-
AC Power Conducted Emissions	A, B, C, D, E, F, G, H, I, J	802.11ax (HE40)	CDD	167	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B, C, D, E, F, G, H, I, J	802.11ax (HE40)	CDD	167	BPSK	MCS0
Unwanted Emissions above 1 GHz	A, C, E, G, I	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	CDD	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	CDD	167, 175	BPSK	MCS0
		802.11ax (HE80)	CDD	171	BPSK	MCS0
	C, E, G, I	802.11ax (HE160)	CDD	163	BPSK	MCS0
EUT Configure Mode:	Mode	EUT Model / Radio		Power		
	A	FAP-431G / Radio2		Power from adapter		
	B			Power from PoE		
	C	FAP-431G / Radio3		Power from adapter		
	D			Power from PoE		
	E	FAP-431G / Scanning Radio		Power from adapter		
	F			Power from PoE		
	G	FAP-433G / Radio3		Power from adapter		
	H			Power from PoE		
	I	FAP-433G / Scanning Radio		Power from adapter		
	J			Power from PoE		

Note: Scanning Radio does not support Beamformig mode.

3.5 Duty Cycle of Test Signal

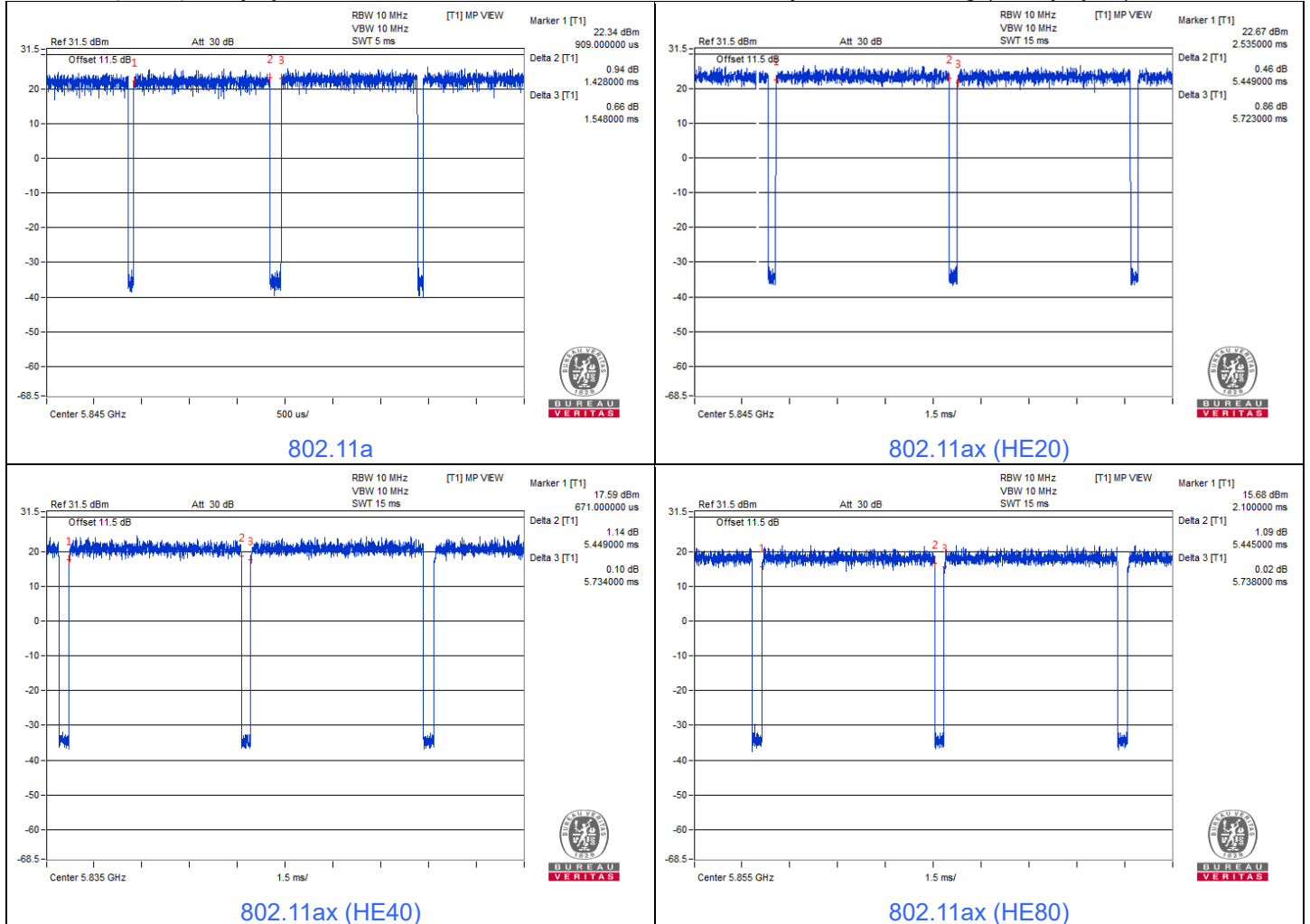
FAP-431G_Radio 2 (Test Mode A)

802.11a: Duty cycle = 1.428 ms / 1.548 ms x 100% = 92.2%, duty factor = 10 * log (1/Duty cycle) = 0.35 dB

802.11ax (HE20): Duty cycle = 5.449 ms / 5.723 ms x 100% = 95.2%, duty factor = 10 * log (1/Duty cycle) = 0.21 dB

802.11ax (HE40): Duty cycle = 5.449 ms / 5.734 ms x 100% = 95.0%, duty factor = 10 * log (1/Duty cycle) = 0.22 dB

802.11ax (HE80): Duty cycle = 5.445 ms / 5.738 ms x 100% = 94.9%, duty factor = 10 * log (1/Duty cycle) = 0.23 dB





FAP-431G_Radio 3 (Test Mode C)

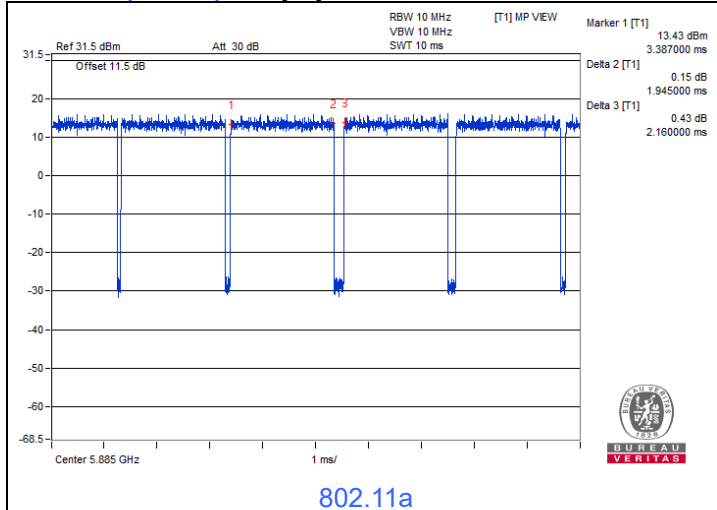
802.11a: Duty cycle = 1.945 ms / 2.16 ms x 100% = 90.0%, duty factor = 10 * log (1/Duty cycle) = 0.46 dB

802.11ax (HE20): Duty cycle = 5.388 ms / 6.363 ms x 100% = 84.7%, duty factor = 10 * log (1/Duty cycle) = 0.72 dB

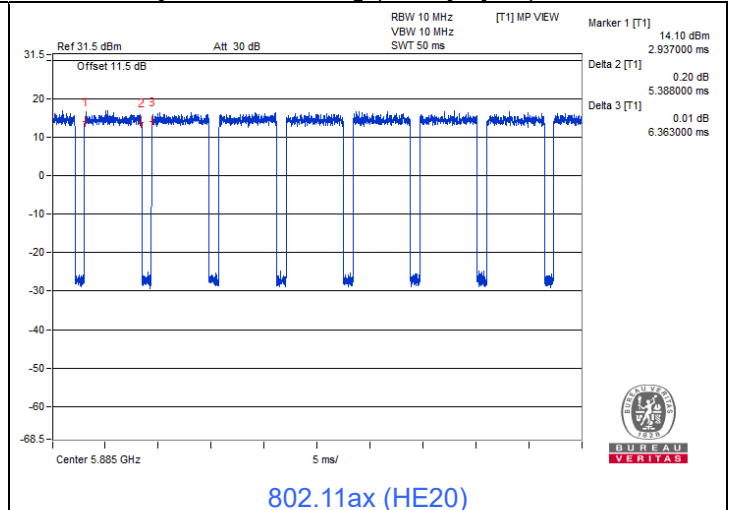
802.11ax (HE40): Duty cycle = 5.363 ms / 6.338 ms x 100% = 84.6%, duty factor = 10 * log (1/Duty cycle) = 0.73 dB

802.11ax (HE80): Duty cycle = 5.3 ms / 6.325 ms x 100% = 83.8%, duty factor = 10 * log (1/Duty cycle) = 0.77 dB

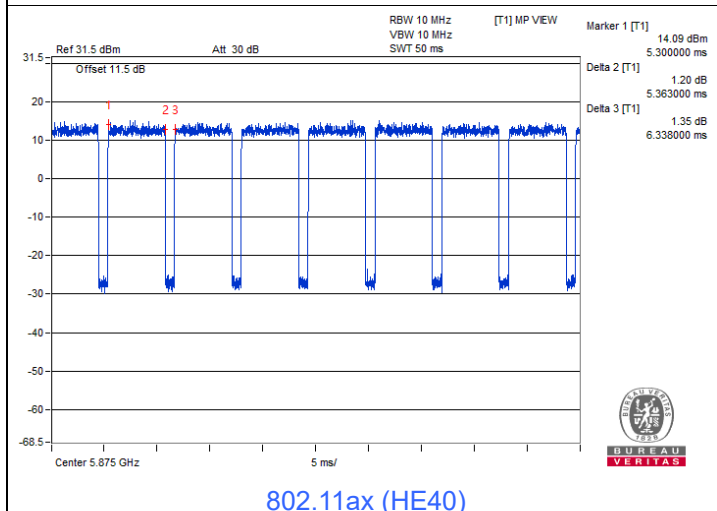
802.11ax (HE160): Duty cycle = 5.375 ms / 5.85 ms x 100% = 91.9%, duty factor = 10 * log (1/Duty cycle) = 0.37 dB



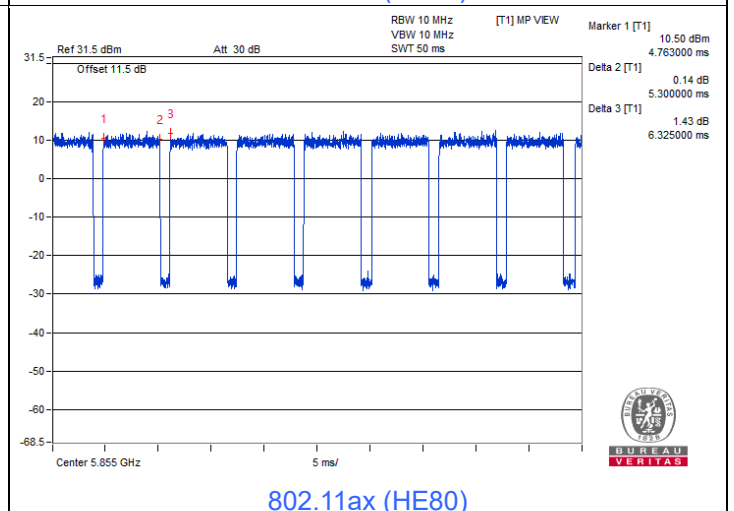
802.11a



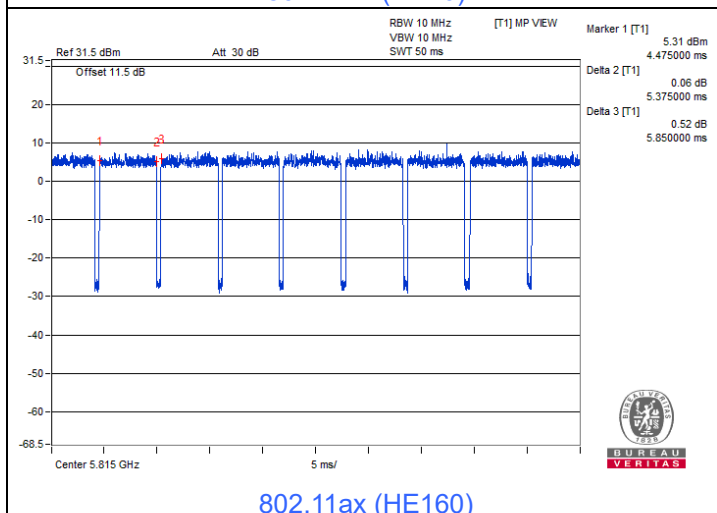
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



FAP-431G_Scanning Radio (Test Mode E)

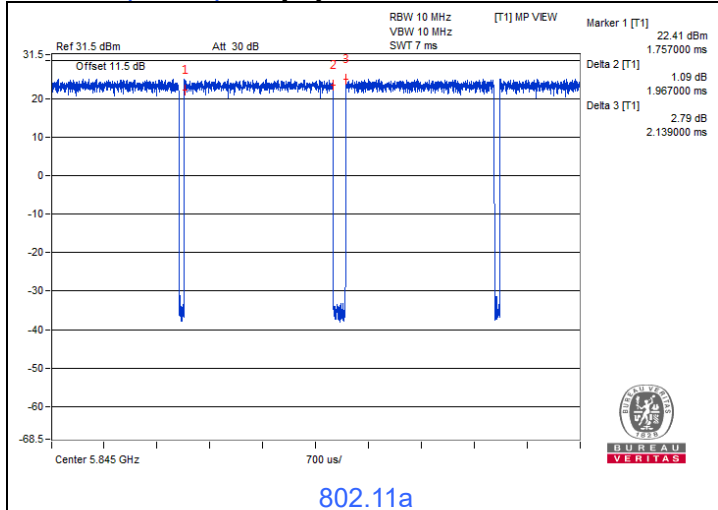
802.11a: Duty cycle = 1.967 ms / 2.139 ms x 100% = 92.0%, duty factor = 10 * log (1/Duty cycle) = 0.36 dB

802.11ax (HE20): Duty cycle = 5.445 ms / 6.323 ms x 100% = 86.1%, duty factor = 10 * log (1/Duty cycle) = 0.65 dB

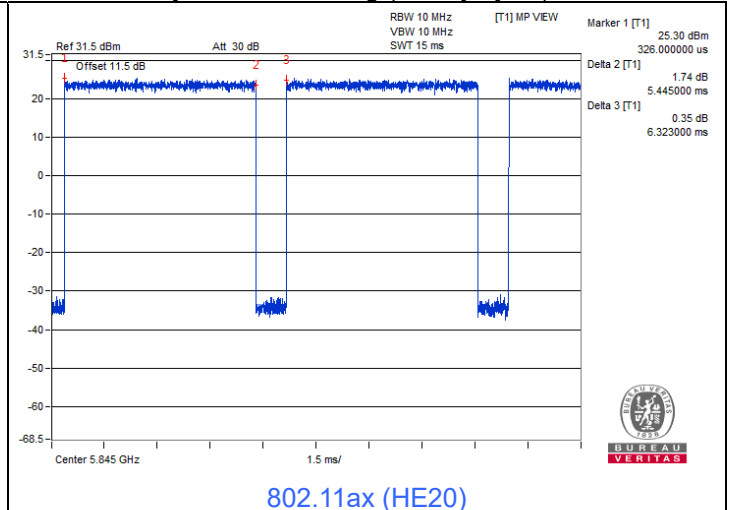
802.11ax (HE40): Duty cycle = 5.442 ms / 6.379 ms x 100% = 85.3%, duty factor = 10 * log (1/Duty cycle) = 0.69 dB

802.11ax (HE80): Duty cycle = 5.441 ms / 6.322 ms x 100% = 86.1%, duty factor = 10 * log (1/Duty cycle) = 0.65 dB

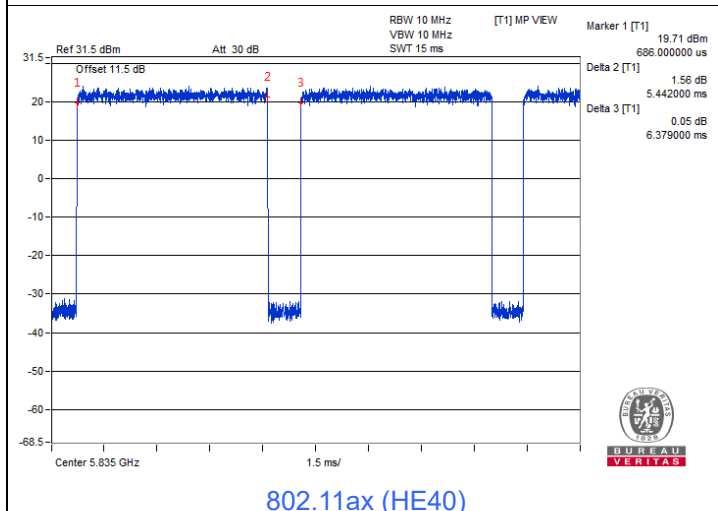
802.11ax (HE160): Duty cycle = 5.445 ms / 5.918 ms x 100% = 92.0%, duty factor = 10 * log (1/Duty cycle) = 0.36 dB



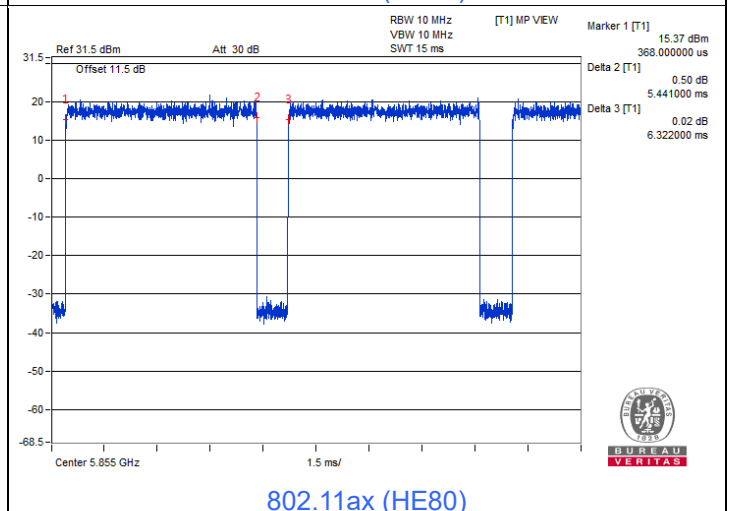
802.11a



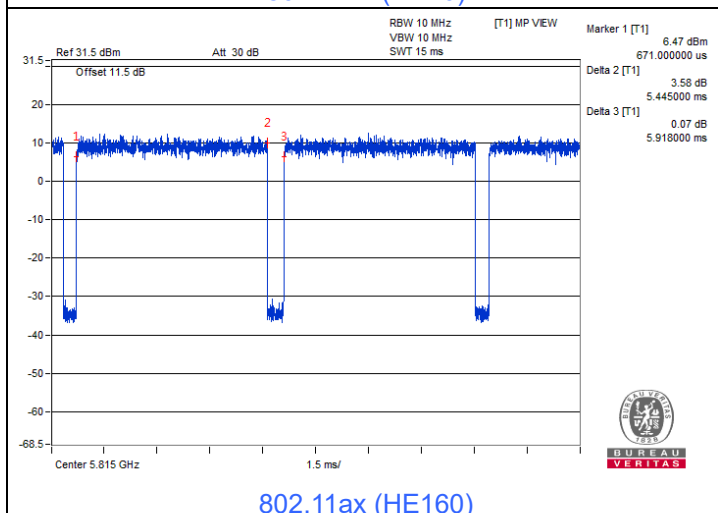
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



FAP-433G_Radio 3 (Test Mode G)

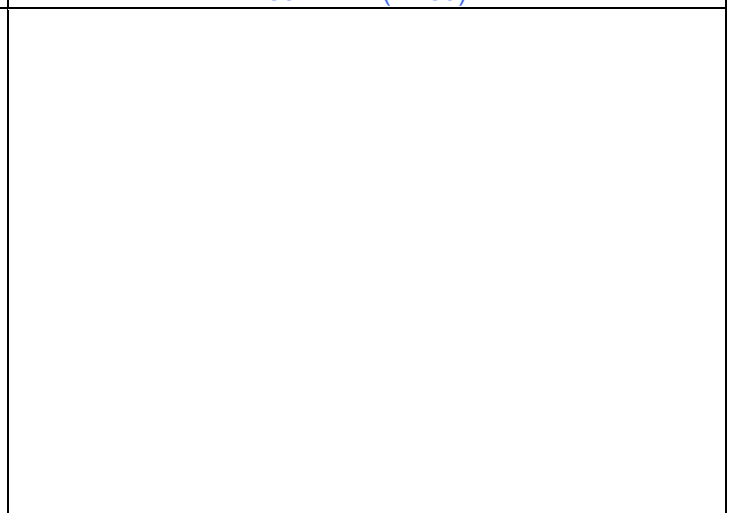
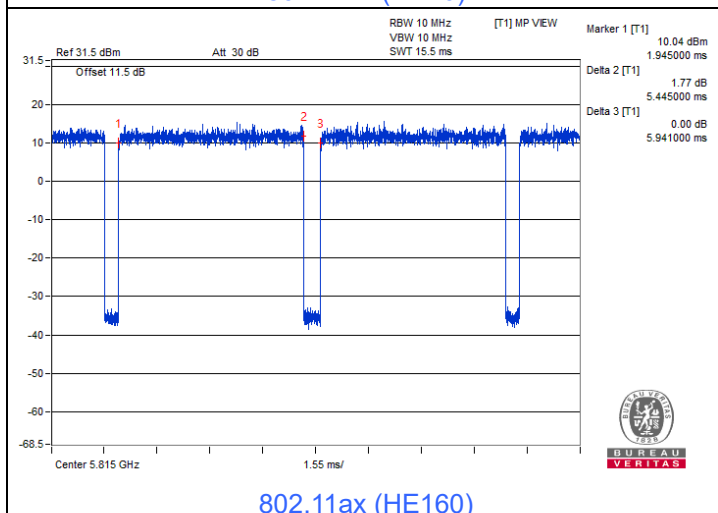
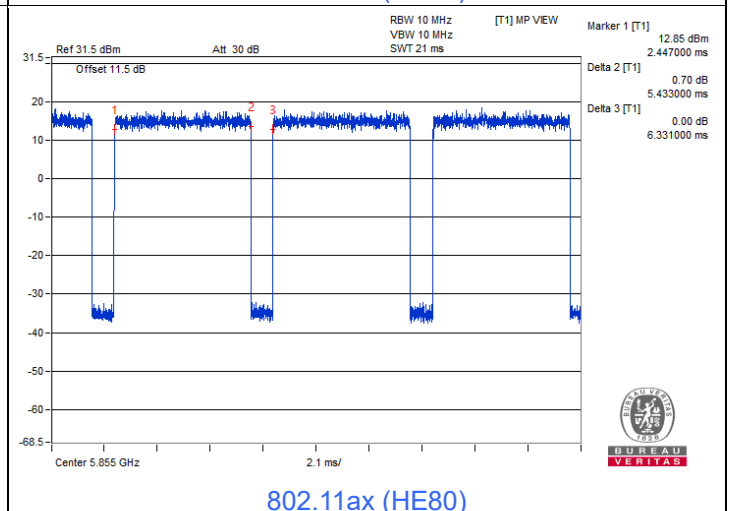
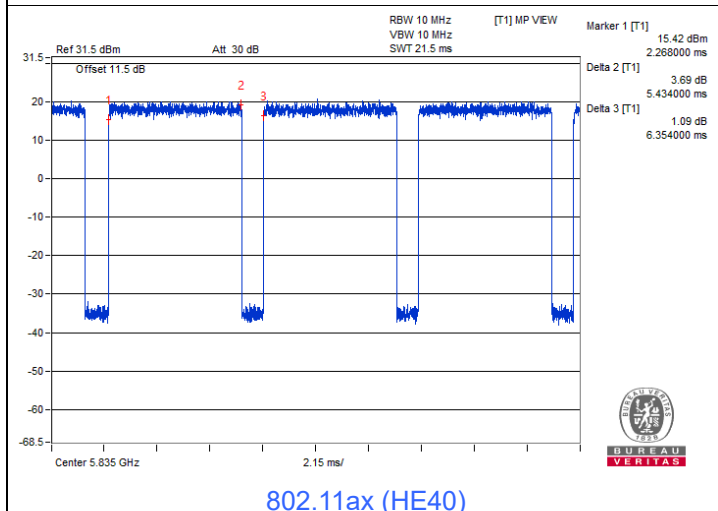
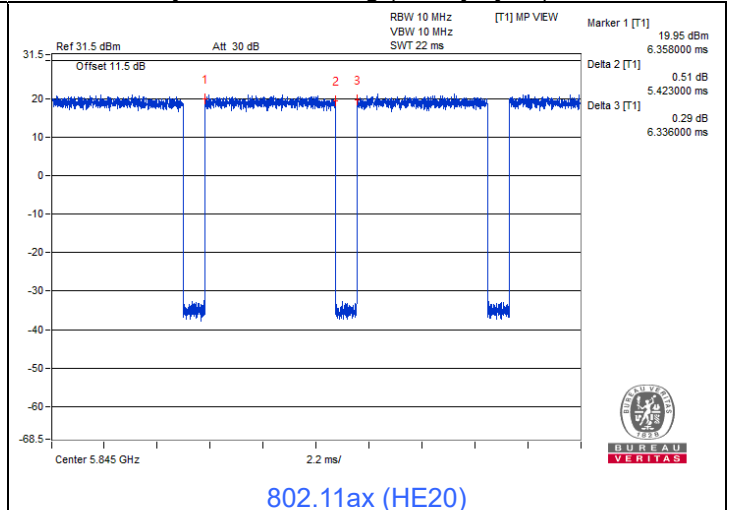
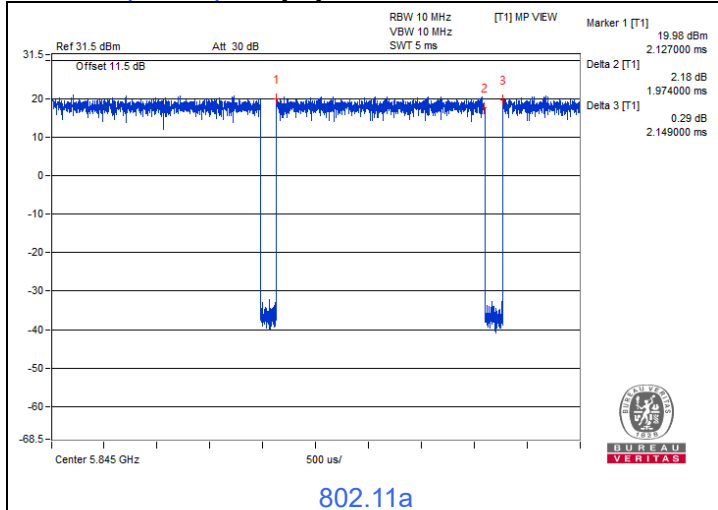
802.11a: Duty cycle = 1.974 ms / 2.149 ms x 100% = 91.9%, duty factor = 10 * log (1/Duty cycle) = 0.37 dB

802.11ax (HE20): Duty cycle = 5.423 ms / 6.336 ms x 100% = 85.6%, duty factor = 10 * log (1/Duty cycle) = 0.68 dB

802.11ax (HE40): Duty cycle = 5.434 ms / 6.354 ms x 100% = 85.5%, duty factor = 10 * log (1/Duty cycle) = 0.68 dB

802.11ax (HE80): Duty cycle = 5.433 ms / 6.331 ms x 100% = 85.8%, duty factor = 10 * log (1/Duty cycle) = 0.66 dB

802.11ax (HE160): Duty cycle = 5.445 ms / 5.941 ms x 100% = 91.7%, duty factor = 10 * log (1/Duty cycle) = 0.38 dB





FAP-433G_Scanning Radio (Test Mode I)

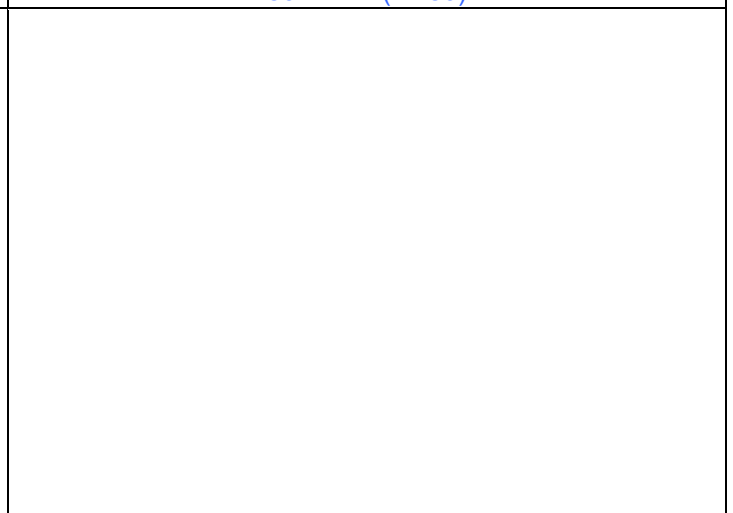
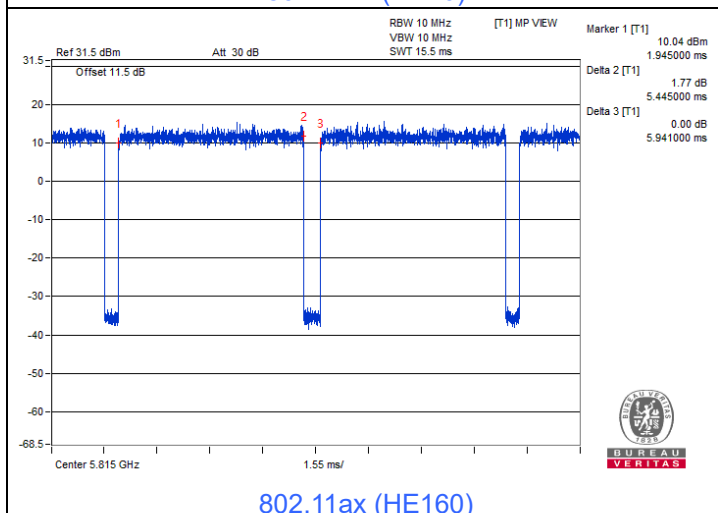
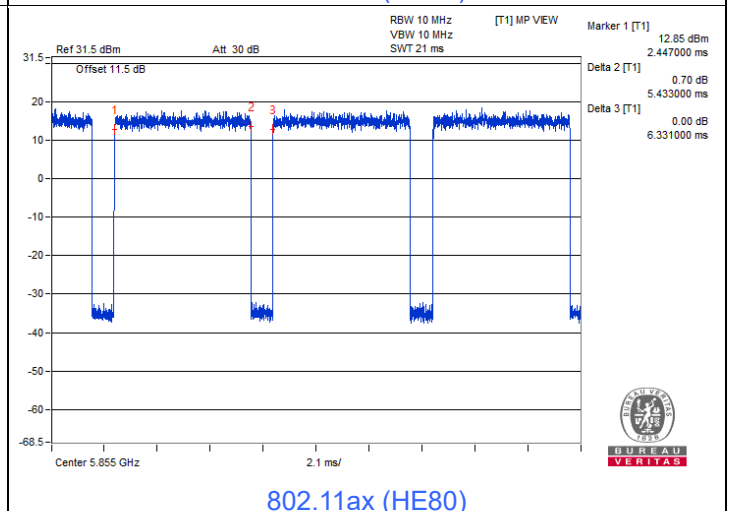
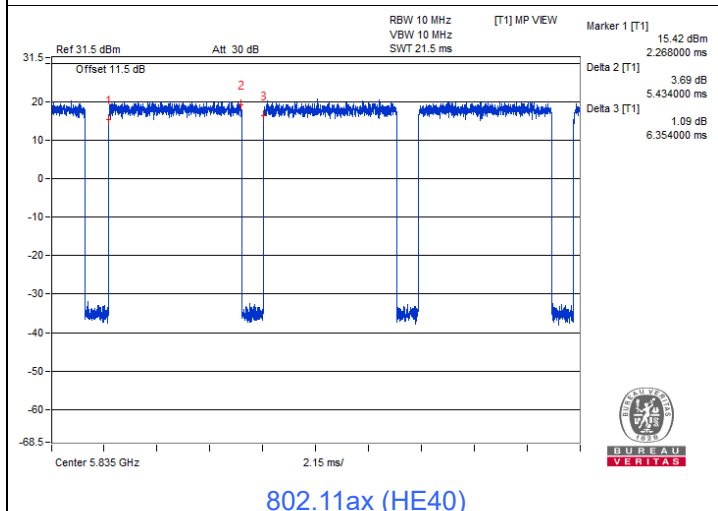
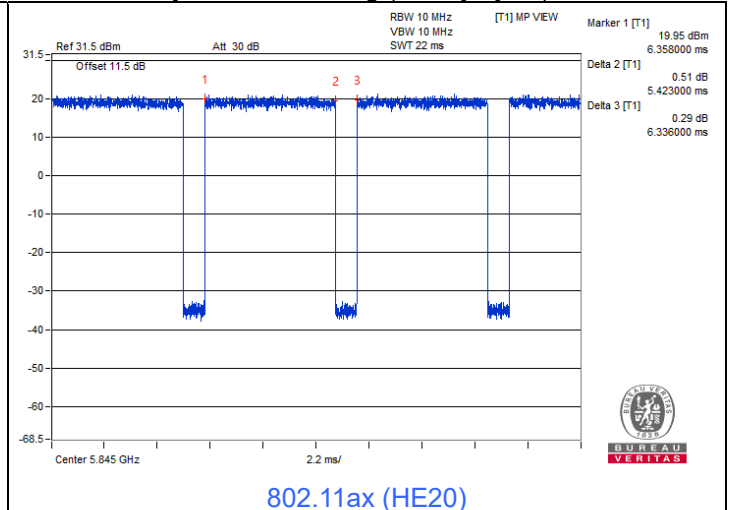
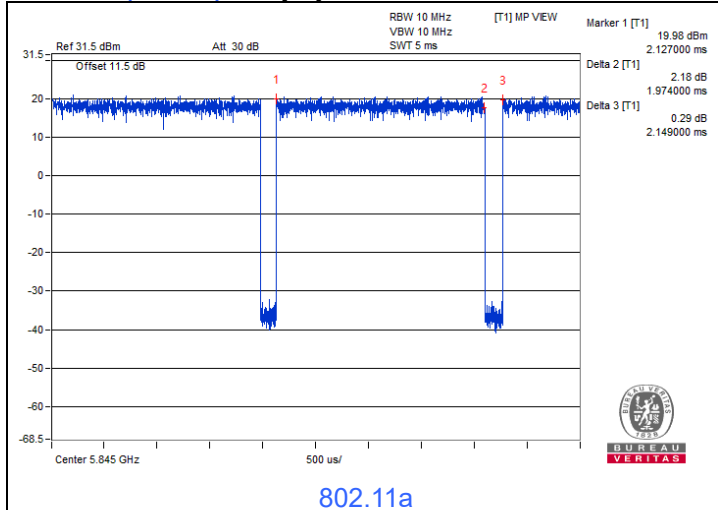
802.11a: Duty cycle = 1.974 ms / 2.149 ms x 100% = 91.9%, duty factor = 10 * log (1/Duty cycle) = 0.37 dB

802.11ax (HE20): Duty cycle = 5.423 ms / 6.336 ms x 100% = 85.6%, duty factor = 10 * log (1/Duty cycle) = 0.68 dB

802.11ax (HE40): Duty cycle = 5.434 ms / 6.354 ms x 100% = 85.5%, duty factor = 10 * log (1/Duty cycle) = 0.68 dB

802.11ax (HE80): Duty cycle = 5.433 ms / 6.331 ms x 100% = 85.8%, duty factor = 10 * log (1/Duty cycle) = 0.66 dB

802.11ax (HE160): Duty cycle = 5.445 ms / 5.941 ms x 100% = 91.7%, duty factor = 10 * log (1/Duty cycle) = 0.38 dB

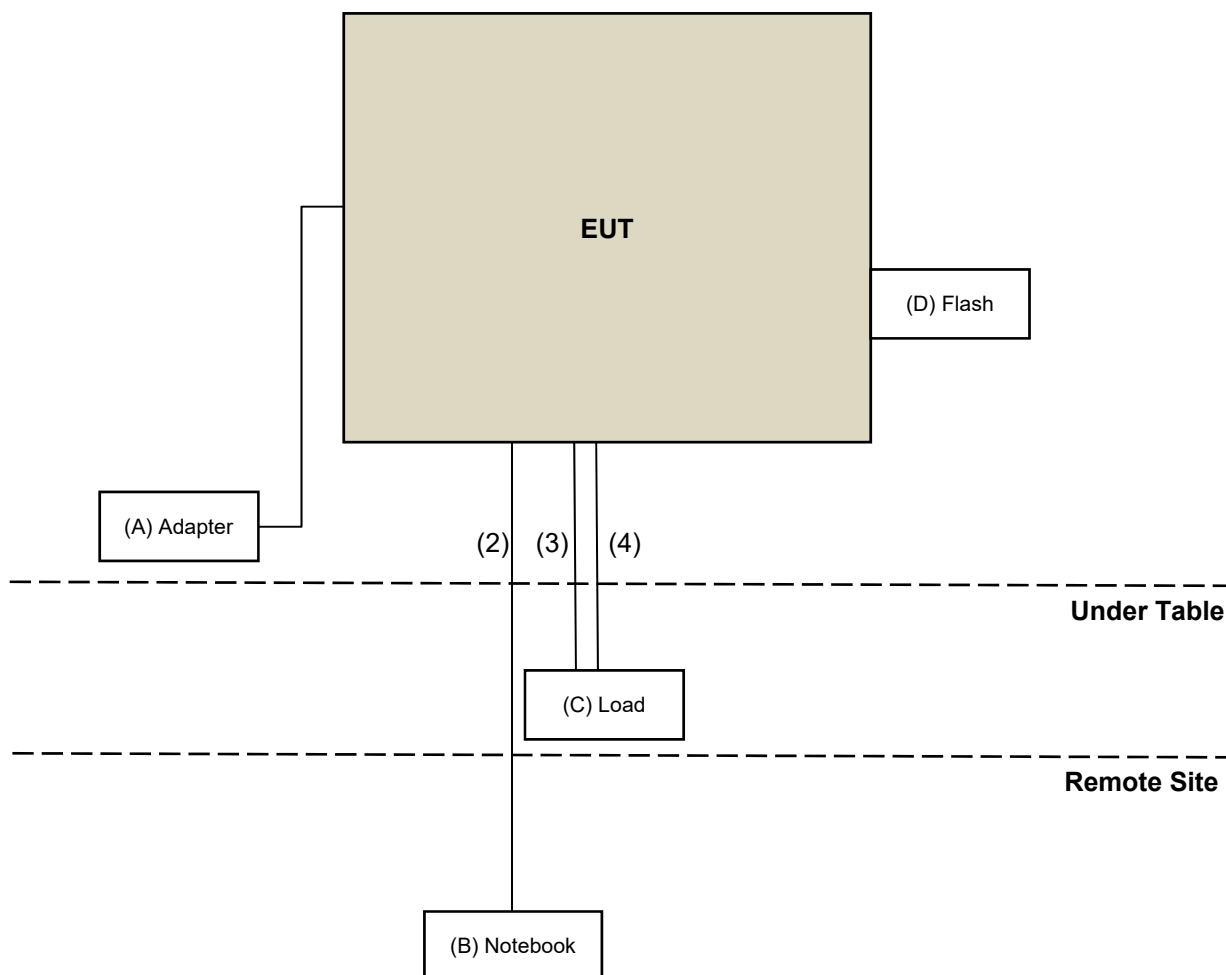


3.6 Test Program Used and Operation Descriptions

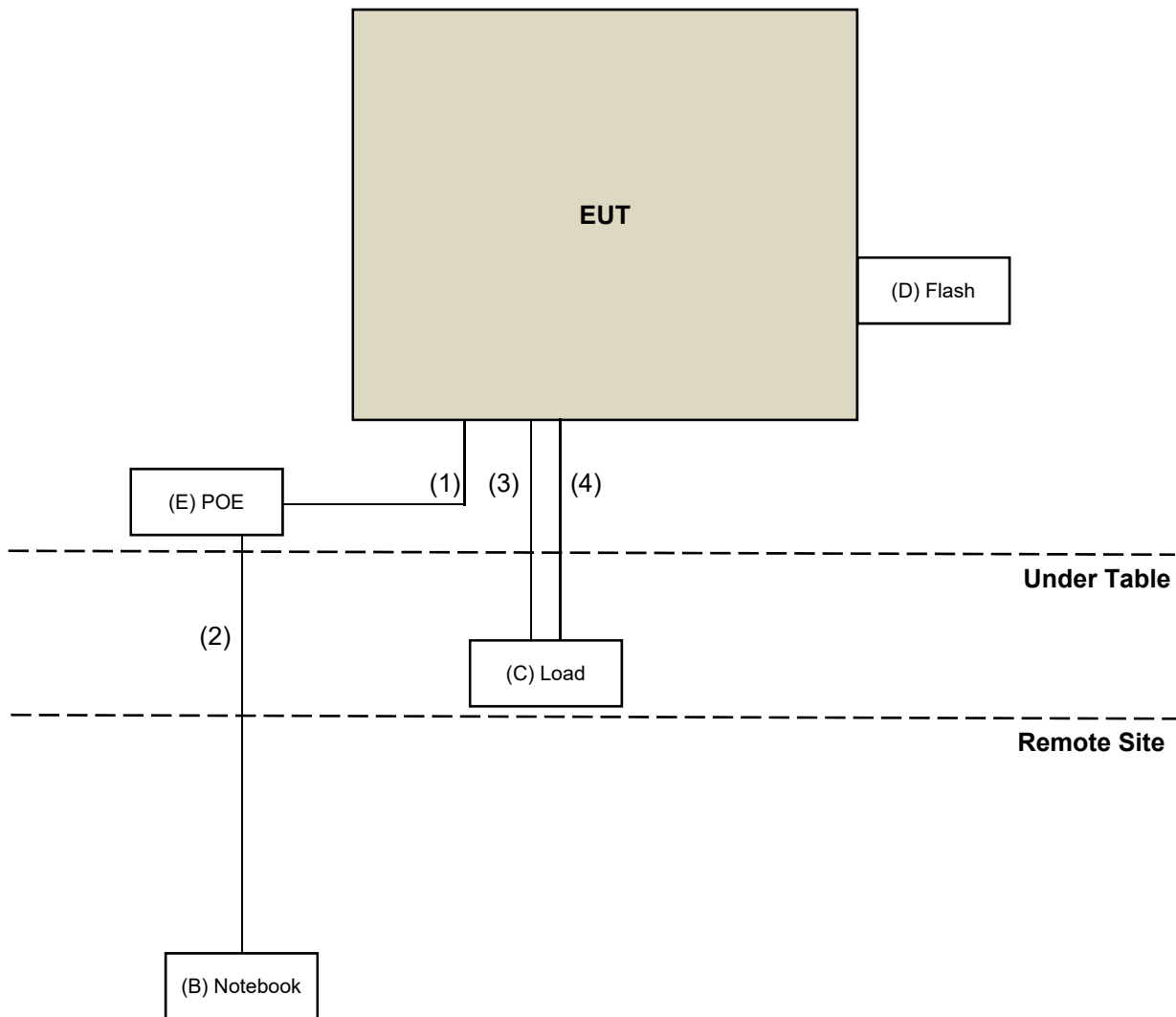
Controlling software (QSPR 5.0-00199) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Test Mode A, C, E, G, I



Test Mode B, D, F, H, J



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Asian Power Devices Inc.	WA-48A12R	NA	NA	Provided by client
B	Notebook	Lenovo	20J4 MD A003TW	PF-11H9AK	FCC DoC Approved	-
C	Load	NA	NA	NA	NA	-
D	USB Flash	SanDisk	NA	NA	NA	-
E	PoE	Microsemi	PD-9501- 10GC/AC	NA	NA	Provided by client

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN cable	1	1.5	N	0	RJ45, Cat5e
2	LAN cable	1	10	N	0	RJ45, Cat5e
3	LAN cable	1	1.5	N	0	RJ45, Cat5e
4	LAN cable	1	1.5	N	0	RJ45, Cat5e

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 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	2022/1/18	2023/1/17
Power sensor Keysight	U2021XA	MY55380009	2022/3/23	2023/3/22
Wideband Power Sensor(N1923A) KEYSIGHT	N1923A	MY58020002	2022/1/17	2023/1/16

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source ExTech	CFW-105	E000603	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/1/3	2023/1/2

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC-LISN SCHWARZBECK MESS- ELETRONIK	NNBM 8126G	8126G-069	2021/11/10	2022/11/9
LISN R&S	ESH3-Z5	100311	2022/9/12	2023/9/11
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2022/1/15	2023/1/14
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2021/12/3	2022/12/2
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2022/9/21 ~ 2022/11/1

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
Test Receiver R&S	ESR3	102579	2022/7/1	2023/6/30
MXA Signal Analyzer KEYSIGHT	N9020B	MY60110462	2021/12/21	2022/12/20
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Loop Antenna EMCI	EM-6879	269	2021/9/16 2022/9/19	2022/9/15 2023/9/18
Pre-amplifier EMCI	EMC001340	980201	2021/9/15 2022/9/23	2022/9/14 2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
Pre_Amplifier EMCI	EMC330N	980783	2022/1/17	2023/1/16
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-995	2021/10/28 2022/10/20	2022/10/27 2023/10/19
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-9000	201252	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-3000	201250	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201245	2022/1/17	2023/1/16

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2022/9/14 ~ 2022/11/2



Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A
Test Receiver R&S	ESR3+	102782	2021/12/10	2022/12/9
Spectrum Analyzer R&S	FSW43	101866	2022/1/14	2023/1/13
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Loop Antenna EMCI	EM-6879	269	2021/9/16 2022/9/19	2022/9/15 2023/9/18
Pre-amplifier EMCI	EMC001340	980201	2021/9/15 2022/9/23	2022/9/14 2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
Pre_Amplifier EMCI	EMC330N	980782	2022/1/17	2023/1/16
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-1213	2021/10/27 2022/10/20	2022/10/26 2023/10/19
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-3000	201235	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-9000	201236	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2022/1/17	2023/1/16

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/9/14 ~ 2022/11/2

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
Test Receiver R&S	ESR3	102579	2022/7/1	2023/6/30
MXA Signal Analyzer KEYSIGHT	N9020B	MY60110462	2021/12/21	2022/12/20
Horn Antenna RFSPIN	DRH18-E	210104A18E	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC118A45SE	980810	2021/12/30	2022/12/29
RF Coaxial Cable EMCI	EMC104-SM-SM-9000	201230	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC104-SM-SM-3000	201242	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC104-SM-SM-1000	210101	2022/1/17	2023/1/16
Pre_Amplifier EMCI	EMC184045SE	980787	2022/1/17	2023/1/16
Horn Antenna Schwarzbeck	BBHA 9170	9170-1048	2021/11/14	2022/11/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-5000	201259	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC101G-KM-KM-3000	201256	2022/1/17	2023/1/16

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2022/9/13 ~ 2022/11/3



Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A
Test Receiver R&S	ESR3+	102782	2021/12/10	2022/12/9
Spectrum Analyzer R&S	FSW43	101866	2022/1/14	2023/1/13
Horn Antenna RFSPIN	DRH18-E	210103A18E	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC118A45SE	980808	2021/12/30	2022/12/29
RF Coaxial Cable EMCI	EMC104-SM-SM-1000	210102	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC104-SM-SM-3000	201231	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC104-SM-SM-9000	201243	2022/1/17	2023/1/16
Pre_Amplifier EMCI	EMC184045SE	980788	2022/1/17	2023/1/16
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2021/11/14	2022/11/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-5000	201260	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC101G-KM-KM-3000	201257	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2022/1/17	2023/1/16

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/9/13 ~ 2022/11/3

5 Limits of Test Items

5.1 RF Output Power

Device Category	Limit (Max Average Power)
Indoor access point	EIRP 36 dBm
Subordinate device	EIRP 36 dBm
Client device	EIRP 30 dBm

Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.

Per KDB 662911 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.

5.2 Power Spectral Density

Device Category	Limit
Indoor access point	EIRP 20 dBm/MHz
Subordinate device	EIRP 20 dBm/MHz
Client device	EIRP 14 dBm/MHz

Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.

5.3 6 dB Bandwidth

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.4 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.5 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.

5.6 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).

5.7 Unwanted Emissions above 1 GHz

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Note:

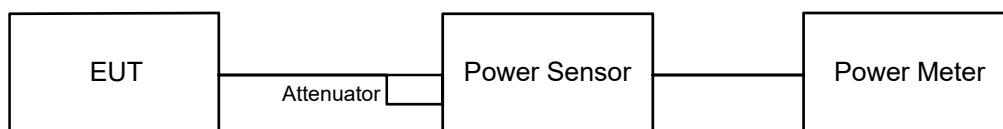
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

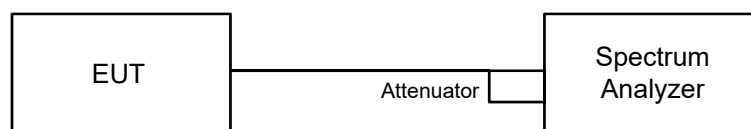


6.1.2 Test Procedure

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.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

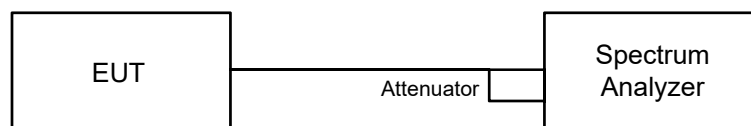
For specified measurement bandwidth 1 MHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

6.3 6 dB Bandwidth

6.3.1 Test Setup

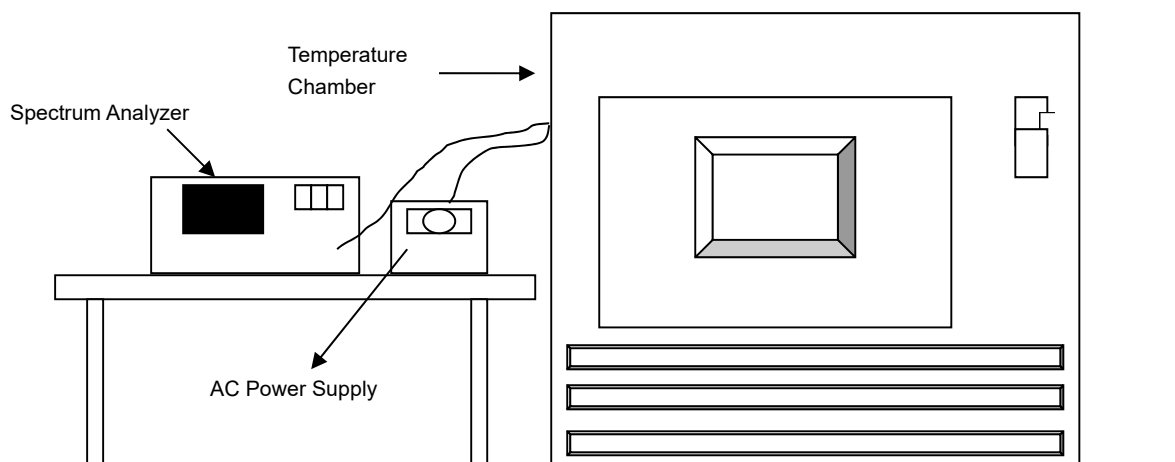


6.3.2 Test Procedure

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

6.4 Frequency Stability

6.4.1 Test Setup

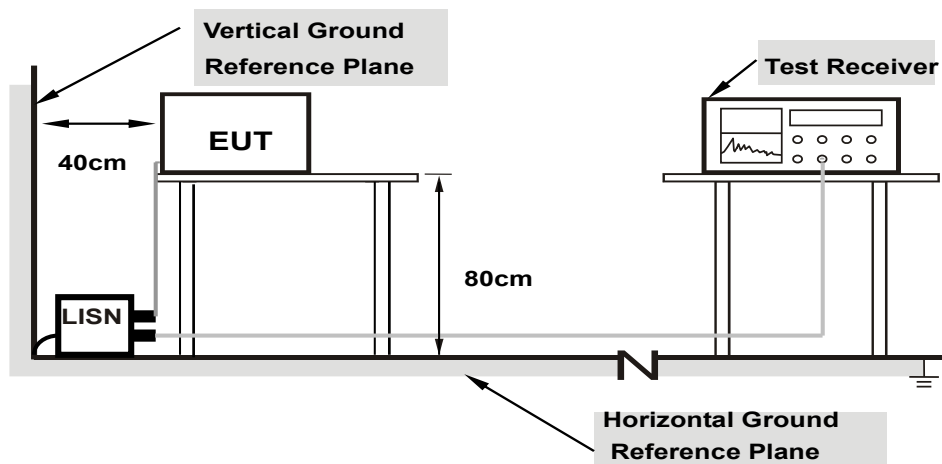


6.4.2 Test Procedure

- 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.

6.5 AC Power Conducted Emissions

6.5.1 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).

6.5.2 Test Procedure

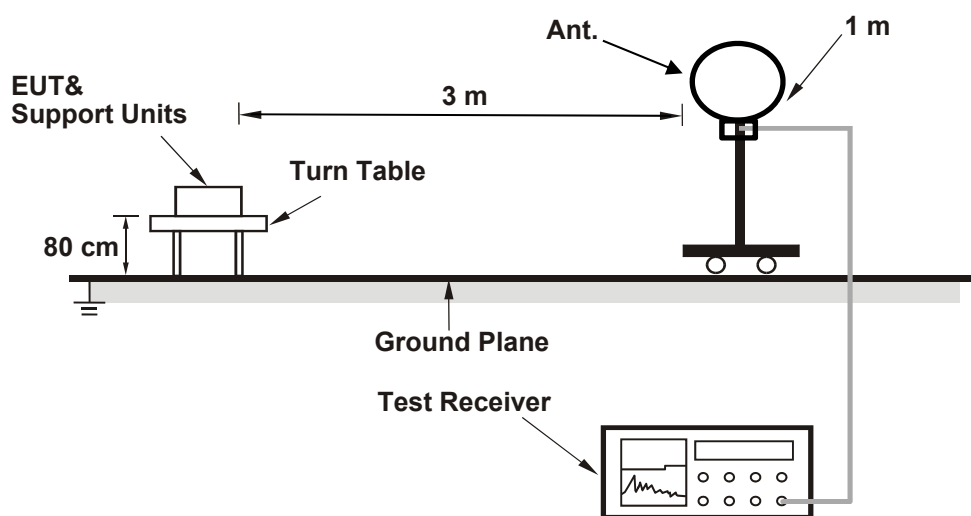
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

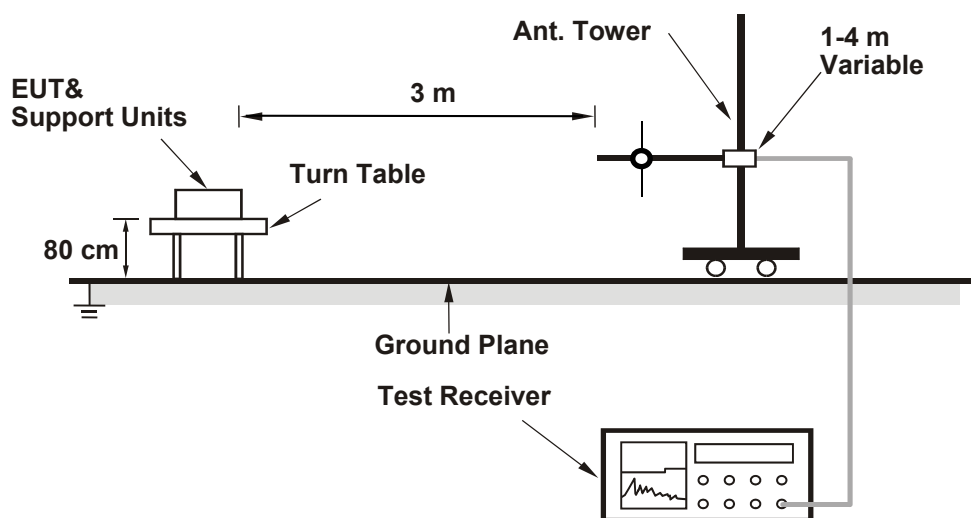
6.6 Unwanted Emissions below 1 GHz

6.6.1 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).

6.6.2 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

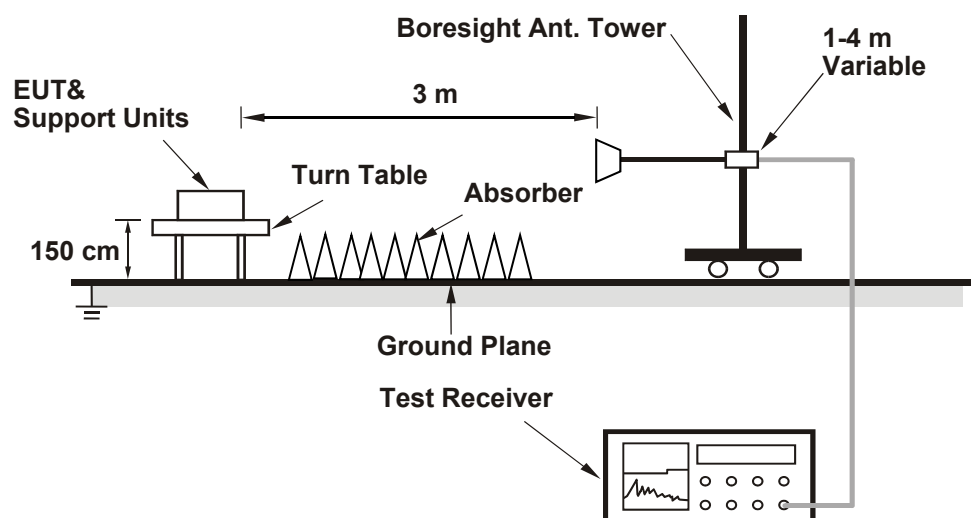
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 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 RF Output Power

Input Power:	120Vac, 60Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin, Jisyong Wang, Ivan Tseng
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FAP-431G_Radio 2 (Test Mode A)

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	20.36	20.75	20.29	20.15	437.912	26.41	4.30	1177.606	30.71	36	Pass
173	5865	20.67	20.32	20.69	20.45	452.465	26.56	4.30	1218.990	30.86	36	Pass
177	5885	20.67	19.84	20.07	20.01	414.919	26.18	4.30	1116.863	30.48	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	21.12	20.36	20.73	20.64	472.244	26.74	4.30	1270.574	31.04	36	Pass
173	5865	21.08	20.93	20.67	20.72	486.826	26.87	4.30	1309.182	31.17	36	Pass
177	5885	20.72	20.25	19.94	20.07	424.21	26.28	4.30	1142.878	30.58	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	23.01	23.35	23.59	23.42	864.604	29.37	4.30	2328.091	33.67	36	Pass
175	5875	23.17	23.30	23.42	23.03	841.983	29.25	4.30	2264.644	33.55	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	21.16	20.42	20.78	20.69	477.665	26.79	4.30	1285.287	31.09	36	Pass
173	5865	21.13	20.97	20.71	20.76	491.629	26.92	4.30	1324.342	31.22	36	Pass
177	5885	20.79	20.31	20.01	20.12	430.381	26.34	4.30	1158.777	30.64	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	23.09	23.40	23.66	23.49	878.111	29.44	4.30	2365.920	33.74	36	Pass
175	5875	23.20	23.38	23.49	23.11	854.702	29.32	4.30	2301.442	33.62	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	23.14	22.63	23.04	23.40	809.443	29.08	4.30	2177.71	33.38	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	21.21	20.49	20.84	20.77	484.811	26.86	4.30	1306.171	31.16	36	Pass
173	5865	21.19	21.03	20.76	20.83	498.472	26.98	4.30	1342.765	31.28	36	Pass
177	5885	20.85	20.37	20.09	20.18	436.837	26.40	4.30	1174.898	30.70	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	23.16	23.45	23.71	23.55	889.751	29.49	4.30	2393.316	33.79	36	Pass
175	5875	23.24	23.45	23.56	23.16	866.173	29.38	4.30	2333.458	33.68	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	23.21	22.67	23.11	23.45	820.292	29.14	4.30	2208.005	33.44	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.83	18.17	18.46	18.43	281.806	24.50	6.31	1205.036	30.81	36	Pass
173	5865	18.81	18.66	18.42	18.49	289.618	24.62	6.03	1161.449	30.65	36	Pass
177	5885	18.48	18.06	17.75	17.76	253.713	24.04	6.03	1016.249	30.07	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	20.82	21.09	21.30	21.16	514.823	27.12	6.31	2202.926	33.43	36	Pass
175	5875	20.91	21.04	21.18	20.84	502.927	27.02	6.03	2018.366	33.05	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.95	18.29	18.60	18.56	290.199	24.63	6.31	1241.652	30.94	36	Pass
173	5865	18.94	18.80	18.54	18.60	298.094	24.74	6.03	1193.988	30.77	36	Pass
177	5885	18.60	18.17	17.87	17.88	260.669	24.16	6.03	1044.720	30.19	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	20.93	21.20	21.43	21.28	528.977	27.23	6.31	2259.436	33.54	36	Pass
175	5875	21.03	21.17	21.31	20.95	517.342	27.14	6.03	2074.914	33.17	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	20.98	20.42	20.86	21.17	488.285	26.89	6.31	2089.296	33.20	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	19.07	18.41	18.73	18.70	298.842	24.75	6.31	1276.439	31.06	36	Pass
173	5865	19.06	18.93	18.67	18.72	306.795	24.87	6.03	1230.269	30.90	36	Pass
177	5885	18.73	18.29	18.01	18.04	269.018	24.30	6.03	1078.947	30.33	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.06	21.32	21.56	21.41	544.738	27.36	6.31	2328.091	33.67	36	Pass
175	5875	21.16	21.30	21.44	21.07	532.767	27.27	6.03	2137.962	33.30	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	21.12	20.54	20.99	21.31	503.47	27.02	6.31	2152.782	33.33	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

FAP-431G_Radio 3 (Test Mode C)

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	20.24	19.46	19.75	19.77	383.238	25.83	5.30	1297.179	31.13	36	Pass
173	5865	20.26	19.49	19.76	19.56	380.078	25.80	5.30	1288.250	31.10	36	Pass
177	5885	18.19	17.38	17.65	17.47	234.676	23.70	5.30	794.328	29.00	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	19.80	19.35	19.32	19.60	358.306	25.54	5.30	1213.389	30.84	36	Pass
173	5865	19.56	19.51	19.01	19.72	353.068	25.48	5.30	1196.741	30.78	36	Pass
177	5885	18.10	18.02	17.52	18.31	252.21	24.02	5.30	855.067	29.32	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.75	21.13	21.02	21.30	540.711	27.33	5.30	1832.314	32.63	36	Pass
175	5875	18.76	18.42	18.19	18.70	284.713	24.54	5.30	963.829	29.84	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	19.85	19.41	19.36	19.64	362.245	25.59	5.30	1227.439	30.89	36	Pass
173	5865	19.63	19.58	19.10	19.80	359.398	25.56	5.30	1218.99	30.86	36	Pass
177	5885	18.16	18.10	17.61	18.36	256.255	24.09	5.30	868.96	29.39	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.81	21.16	21.30	21.38	554.623	27.44	5.30	1879.317	32.74	36	Pass
175	5875	18.81	18.52	18.23	18.75	288.671	24.60	5.30	977.237	29.90	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.51	17.90	18.01	18.30	263.467	24.21	5.30	893.305	29.51	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	16.92	16.74	16.79	16.90	193.141	22.86	5.30	654.636	28.16	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	19.93	19.47	19.41	19.72	367.966	25.66	5.30	1247.384	30.96	36	Pass
173	5865	19.73	19.63	19.16	19.89	365.718	25.63	5.30	1238.797	30.93	36	Pass
177	5885	18.21	18.16	17.65	18.43	259.558	24.14	5.30	879.023	29.44	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.85	21.25	21.38	21.44	563.181	27.51	5.30	1909.853	32.81	36	Pass
175	5875	18.90	18.56	18.31	18.83	293.552	24.68	5.30	995.405	29.98	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.59	17.96	18.10	18.35	267.751	24.28	5.30	907.821	29.58	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	16.99	16.81	16.91	16.93	196.385	22.93	5.30	665.273	28.23	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	17.78	17.33	17.30	17.58	225.037	23.52	6.91	1104.079	30.43	36	Pass
173	5865	18.03	18.00	17.48	18.20	248.674	23.96	6.61	1140.25	30.57	36	Pass
177	5885	16.58	16.51	16.00	16.78	177.724	22.50	6.61	814.704	29.11	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	19.73	19.11	18.98	19.26	338.844	25.30	6.91	1663.413	32.21	36	Pass
175	5875	17.23	16.90	16.67	17.16	200.274	23.02	6.61	918.333	29.63	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	17.88	17.38	17.27	17.62	227.221	23.56	6.91	1114.295	30.47	36	Pass
173	5865	18.16	18.01	17.59	18.29	253.569	24.04	6.61	1161.449	30.65	36	Pass
177	5885	16.62	16.55	16.02	16.83	179.295	22.54	6.61	822.243	29.15	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	19.78	19.14	19.27	19.35	347.723	25.41	6.91	1706.082	32.32	36	Pass
175	5875	17.29	17.00	16.71	17.23	203.424	23.08	6.61	931.108	29.69	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	16.50	15.87	15.97	16.27	165.206	22.18	6.91	810.961	29.09	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	14.88	14.71	14.79	14.86	121.091	20.83	6.91	594.292	27.74	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	17.91	17.44	17.33	17.70	230.224	23.62	6.91	1129.796	30.53	36	Pass
173	5865	18.21	18.10	17.63	18.37	257.437	24.11	6.61	1180.321	30.72	36	Pass
177	5885	16.68	16.63	16.13	16.91	182.695	22.62	6.61	837.529	29.23	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	19.81	19.21	19.35	19.42	352.685	25.47	6.91	1729.816	32.38	36	Pass
175	5875	17.36	17.03	16.78	17.31	206.386	23.15	6.61	946.237	29.76	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	16.57	15.93	16.08	16.33	168.073	22.25	6.91	824.138	29.16	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	14.94	14.77	14.91	14.89	122.987	20.90	6.91	603.949	27.81	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

FAP-431G_Scanning Radio (Test Mode E)

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.22	22.35	338.516	25.30	5.30	1148.154	30.60	36	Pass
173	5865	22.88	23.21	403.5	26.06	5.30	1367.729	31.36	36	Pass
177	5885	20.14	19.36	189.574	22.78	5.30	642.688	28.08	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.09	22.31	332.024	25.21	5.30	1124.605	30.51	36	Pass
173	5865	22.82	23.23	401.803	26.04	5.30	1361.445	31.34	36	Pass
177	5885	19.86	19.43	184.528	22.66	5.30	625.173	27.96	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	22.91	23.13	401.023	26.03	5.30	1358.313	31.33	36	Pass
175	5875	20.11	19.61	193.977	22.88	5.30	657.658	28.18	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.21	22.45	342.134	25.34	5.30	1158.777	30.64	36	Pass
173	5865	22.94	23.36	413.559	26.17	5.30	1402.814	31.47	36	Pass
177	5885	19.97	19.53	189.054	22.77	5.30	641.210	28.07	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	23.02	23.27	412.772	26.16	5.30	1399.587	31.46	36	Pass
175	5875	20.24	19.71	199.222	22.99	5.30	674.528	28.29	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	20.05	19.70	194.483	22.89	5.30	659.174	28.19	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	15.34	15.29	68.004	18.33	5.30	230.675	23.63	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.33	22.59	352.553	25.47	5.30	1193.988	30.77	36	Pass
173	5865	23.05	23.49	425.194	26.29	5.30	1442.115	31.59	36	Pass
177	5885	20.09	19.65	194.351	22.89	5.30	659.174	28.19	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	23.16	23.40	425.79	26.29	5.30	1442.115	31.59	36	Pass
175	5875	20.37	19.82	204.833	23.11	5.30	693.426	28.41	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	20.18	19.82	200.172	23.01	5.30	677.642	28.31	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	15.47	15.40	69.911	18.45	5.30	237.137	23.75	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

FAP-433G_Radio 3 (Test Mode G)

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.51	18.45	18.41	18.72	284.758	24.54	2.81	543.250	27.35	36	Pass
173	5865	18.60	18.71	18.45	18.83	293.113	24.67	2.81	559.758	27.48	36	Pass
177	5885	17.75	17.63	17.51	17.94	236.103	23.73	2.81	450.817	26.54	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.54	18.51	18.40	18.72	286.064	24.56	2.81	545.758	27.37	36	Pass
173	5865	18.67	18.87	18.59	18.87	300.078	24.77	2.81	572.796	27.58	36	Pass
177	5885	17.75	17.86	17.66	17.95	241.378	23.83	2.81	461.318	26.64	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.46	21.08	21.13	20.86	519.809	27.16	2.81	993.116	29.97	36	Pass
175	5875	17.69	17.74	17.52	17.74	234.101	23.69	2.81	446.684	26.50	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.65	18.62	18.48	18.82	292.738	24.66	2.81	558.47	27.47	36	Pass
173	5865	18.77	18.94	18.65	18.94	305.304	24.85	2.81	583.445	27.66	36	Pass
177	5885	17.82	17.92	17.75	18.02	245.431	23.90	2.81	468.813	26.71	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.56	21.16	21.20	20.95	530.113	27.24	2.81	1011.579	30.05	36	Pass
175	5875	17.78	17.82	17.63	17.86	239.55	23.79	2.81	457.088	26.60	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.42	18.12	18.26	18.53	272.64	24.36	2.81	521.195	27.17	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	18.67	18.77	18.58	18.85	297.803	24.74	2.81	568.853	27.55	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.77	18.71	18.56	18.93	299.58	24.77	2.81	572.796	27.58	36	Pass
173	5865	18.86	19.01	18.72	19.05	311.355	24.93	2.81	594.292	27.74	36	Pass
177	5885	17.92	18.04	17.87	18.10	251.424	24.00	2.81	479.733	26.81	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.67	21.22	21.31	21.05	541.884	27.34	2.81	1035.142	30.15	36	Pass
175	5875	17.90	17.91	17.73	17.93	244.841	23.89	2.81	467.735	26.70	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.50	18.21	18.37	18.62	278.501	24.45	2.81	532.108	27.26	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	18.73	18.87	18.65	18.91	302.821	24.81	2.81	578.096	27.62	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11n (HT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.54	18.51	18.40	18.72	286.064	24.56	8.26	1914.256	32.82	36	Pass
173	5865	18.67	18.87	18.59	18.87	300.078	24.77	8.10	1936.422	32.87	36	Pass
177	5885	17.75	17.86	17.66	17.95	241.378	23.83	8.10	1559.553	31.93	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11n (HT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.46	21.08	21.13	20.86	519.809	27.16	8.26	3483.373	35.42	36	Pass
175	5875	17.69	17.74	17.52	17.74	234.101	23.69	8.10	1510.080	31.79	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.65	18.62	18.48	18.82	292.738	24.66	8.26	1958.845	32.92	36	Pass
173	5865	18.77	18.94	18.65	18.94	305.304	24.85	8.10	1972.423	32.95	36	Pass
177	5885	17.82	17.92	17.75	18.02	245.431	23.90	8.10	1584.893	32.00	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.56	21.16	21.20	20.95	530.113	27.24	8.26	3548.134	35.50	36	Pass
175	5875	17.78	17.82	17.63	17.86	239.55	23.79	8.10	1545.254	31.89	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.42	18.12	18.26	18.53	272.64	24.36	8.26	1828.1	32.62	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	18.67	18.77	18.58	18.85	297.803	24.74	8.26	1995.262	33.00	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
169	5845	18.77	18.71	18.56	18.93	299.58	24.77	8.26	2009.093	33.03	36	Pass
173	5865	18.86	19.01	18.72	19.05	311.355	24.93	8.10	2009.093	33.03	36	Pass
177	5885	17.92	18.04	17.87	18.10	251.424	24.00	8.10	1621.81	32.10	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
167	5835	21.67	21.22	21.31	21.05	541.884	27.34	8.26	3630.781	35.60	36	Pass
175	5875	17.90	17.91	17.73	17.93	244.841	23.89	8.10	1581.248	31.99	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
171	5855	18.50	18.21	18.37	18.62	278.501	24.45	8.26	1866.38	32.71	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Directional Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3							
163	5815	18.73	18.87	18.65	18.91	302.821	24.81	8.26	2027.683	33.07	36	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

FAP-433G_Scanning Radio (Test Mode I)

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.26	22.13	331.573	25.21	2.81	633.870	28.02	36	Pass
173	5865	21.02	20.95	250.925	24.00	2.81	479.733	26.81	36	Pass
177	5885	19.55	19.43	177.857	22.50	2.81	339.625	25.31	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11n (HT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.12	22.08	324.365	25.11	2.81	619.441	27.92	36	Pass
173	5865	20.96	20.84	246.077	23.91	2.81	469.894	26.72	36	Pass
177	5885	19.59	19.51	180.322	22.56	2.81	344.350	25.37	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11n (HT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	22.73	22.71	374.137	25.73	2.81	714.496	28.54	36	Pass
175	5875	19.21	19.23	167.121	22.23	2.81	319.154	25.04	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.23	22.16	331.546	25.21	2.81	633.870	28.02	36	Pass
173	5865	21.08	20.93	252.113	24.02	2.81	481.948	26.83	36	Pass
177	5885	19.70	19.59	184.317	22.66	2.81	352.371	25.47	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	22.80	22.79	380.654	25.81	2.81	727.78	28.62	36	Pass
175	5875	19.33	19.32	171.21	22.34	2.81	327.341	25.15	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	19.89	19.82	193.439	22.87	2.81	369.828	25.68	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	19.17	19.13	164.45	22.16	2.81	314.051	24.97	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	22.35	22.24	339.285	25.31	2.81	648.634	28.12	36	Pass
173	5865	21.16	21.02	257.091	24.10	2.81	490.908	26.91	36	Pass
177	5885	19.80	19.69	188.61	22.76	2.81	360.579	25.57	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	22.91	22.88	389.523	25.91	2.81	744.732	28.72	36	Pass
175	5875	19.44	19.40	174.999	22.43	2.81	334.195	25.24	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	19.96	19.90	196.807	22.94	2.81	375.837	25.75	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	19.28	19.22	168.283	22.26	2.81	321.366	25.07	36	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

7.2 Power Spectral Density

Input Power:	120Vac, 60Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin, Jisyong Wang, Ivan Tseng
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FAP-431G_Radio 2 (Test Mode A)

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	6.90	7.18	7.22	7.31	0.35	13.53	6.31	19.84	20	Pass
173	5865	7.51	7.63	7.44	7.04	0.35	13.78	6.03	19.81	20	Pass
177	5885	7.64	7.62	6.66	6.92	0.35	13.60	6.03	19.63	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
- For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	7.31	7.73	7.62	6.95	0.21	13.64	6.31	19.95	20	Pass
173	5865	7.85	7.06	7.76	7.78	0.21	13.85	6.03	19.88	20	Pass
177	5885	7.40	7.44	7.78	7.07	0.21	13.66	6.03	19.69	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
- For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
167	5835	7.26	7.39	7.48	7.63	0.22	13.68	6.31	19.99	20	Pass
175	5875	7.30	7.43	7.58	7.18	0.22	13.62	6.03	19.65	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
- For U-NII-4, The directional gain is 6.03 dBi

802.11ax (HE80)

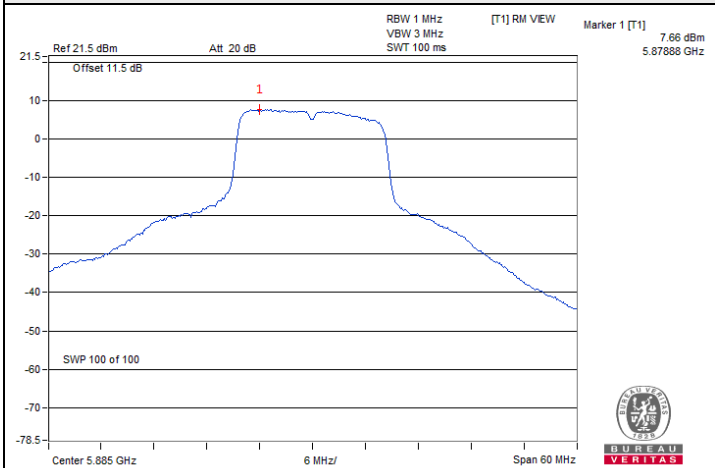
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
171	5855	3.63	3.70	4.54	4.15	0.23	10.27	6.31	16.58	20	Pass

Notes:

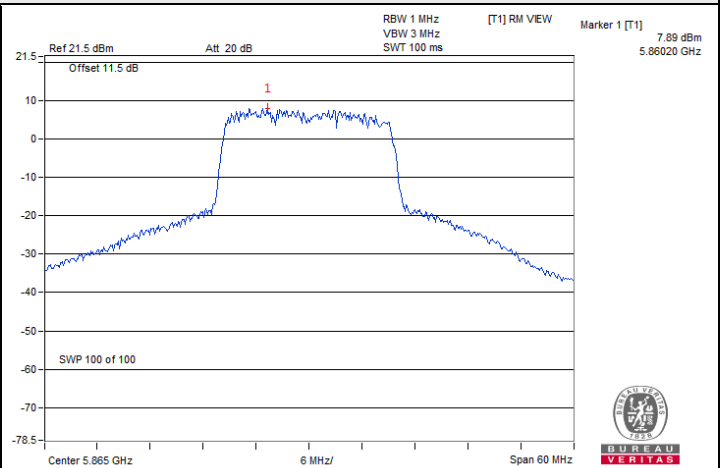
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-4, The directional gain is 6.03 dBi



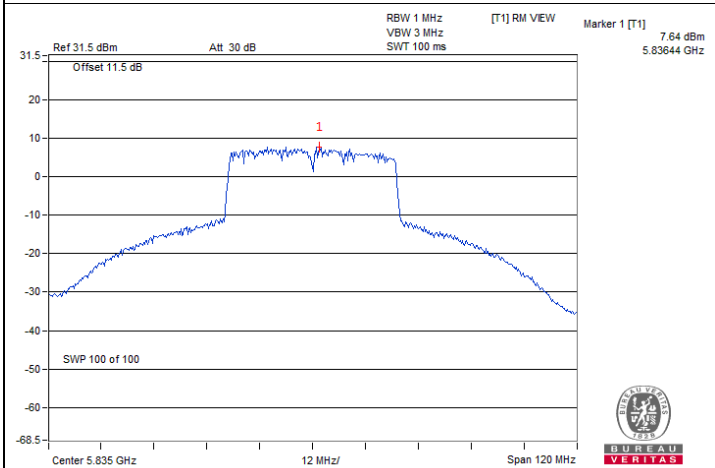
Spectrum Plot of Maximum Value



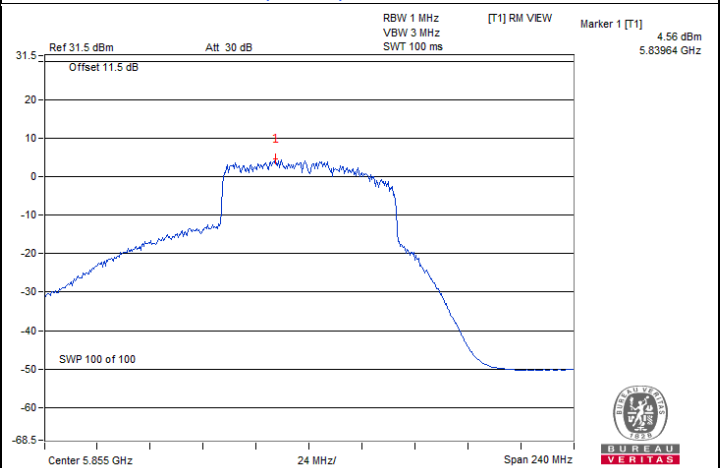
802.11a / Chain 0 : CH 177



802.11ax (HE20) / Chain 0 : CH 173



802.11ax (HE40) / Chain 3 : CH 167



802.11ax (HE80) / Chain 2 : CH 171

FAP-431G_Radio 3 (Test Mode C)

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	6.99	6.17	6.18	5.99	0.46	12.83	6.91	19.74	20	Pass
173	5865	6.81	6.14	6.52	6.19	0.46	12.90	6.61	19.51	20	Pass
177	5885	4.76	4.05	4.21	4.09	0.46	10.77	6.61	17.38	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
- For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	6.74	6.23	5.99	6.29	0.72	13.06	6.91	19.97	20	Pass
173	5865	5.32	6.17	5.86	6.47	0.72	12.72	6.61	19.33	20	Pass
177	5885	4.47	5.03	4.27	4.53	0.72	11.32	6.61	17.93	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
- For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
167	5835	5.44	4.27	5.08	5.20	0.73	11.77	6.91	18.68	20	Pass
175	5875	2.35	1.37	2.18	1.74	0.73	8.68	6.61	15.29	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
171	5855	-0.78	-1.32	-1.37	-0.83	0.77	5.72	6.91	12.63	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

802.11ax (HE160)

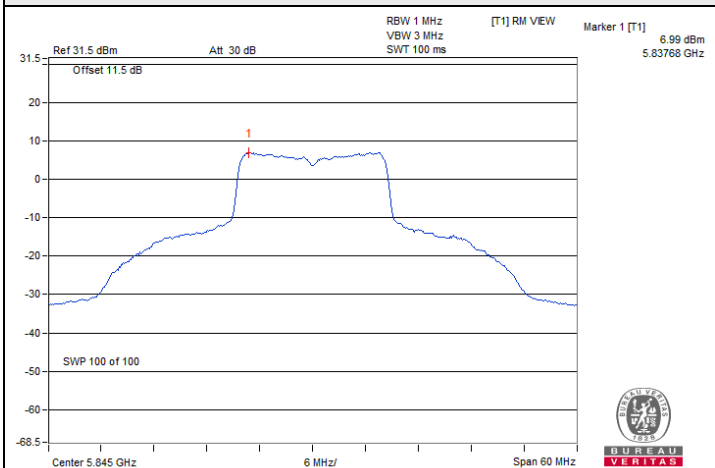
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
163	5815	-5.42	-5.22	-5.05	-5.44	0.37	1.11	6.91	8.02	20	Pass

Notes:

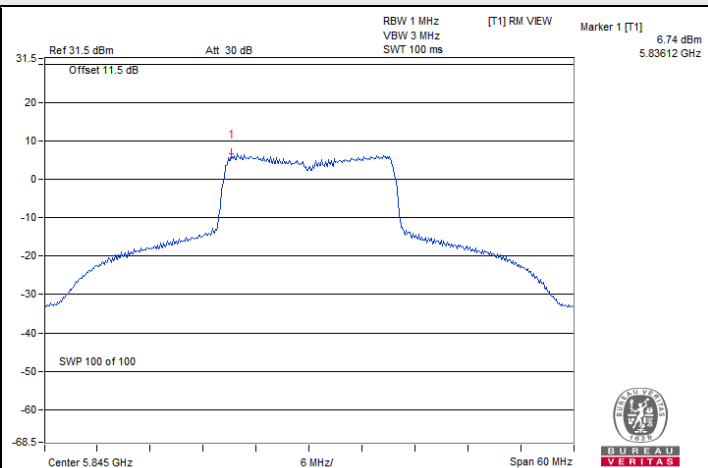
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi



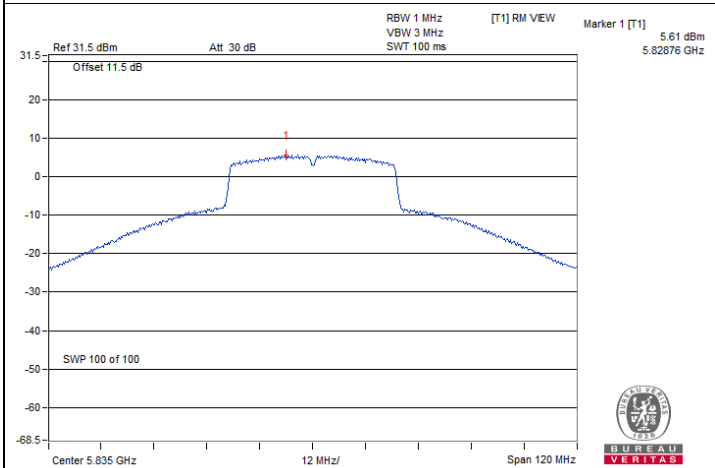
Spectrum Plot of Maximum Value



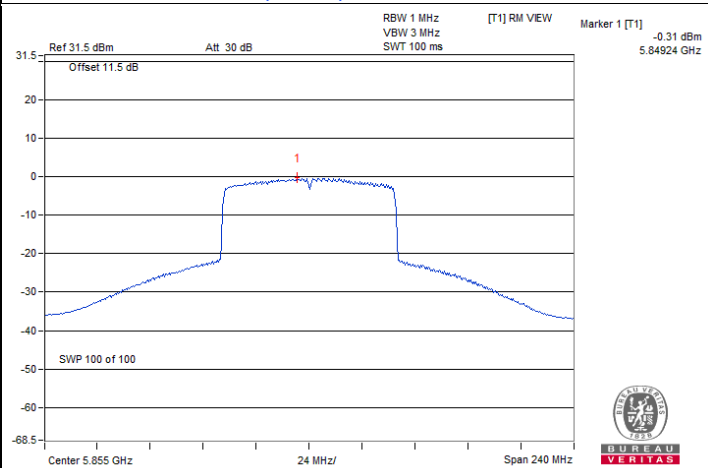
802.11a / Chain 0 : CH 169



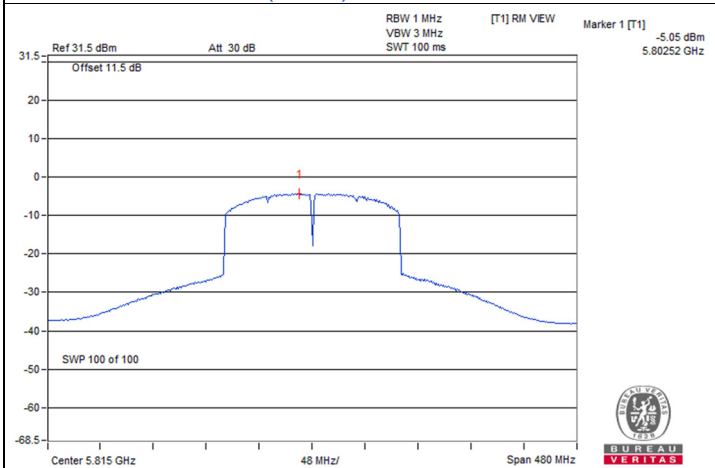
802.11ax (HE20) / Chain 0 : CH 169



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 2 : CH 163

FAP-431G_Scanning Radio (Test Mode E)

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
169	5845	9.19	9.28	0.36	12.61	1.57	14.18	20	Pass
173	5865	9.82	10.02	0.36	13.29	1.49	14.78	20	Pass
177	5885	6.78	5.93	0.36	9.75	1.49	11.24	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
- For U-NII-4, The max single gain is 1.49 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
169	5845	8.63	8.96	0.65	12.46	1.57	14.03	20	Pass
173	5865	9.55	9.95	0.65	13.41	1.49	14.9	20	Pass
177	5885	6.63	6.31	0.65	10.13	1.49	11.62	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
- For U-NII-4, The max single gain is 1.49 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
167	5835	6.68	6.82	0.69	10.45	1.57	12.02	20	Pass
175	5875	4.08	3.26	0.69	7.39	1.49	8.88	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
- For U-NII-4, The max single gain is 1.49 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
171	5855	0.55	0.38	0.65	4.13	1.57	5.7	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

802.11ax (HE160)

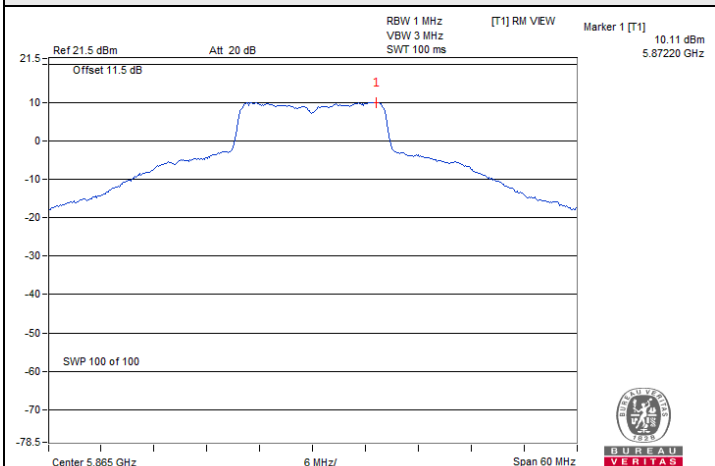
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
163	5815	-6.78	-7.09	0.36	-3.56	1.57	-1.99	20	Pass

Notes:

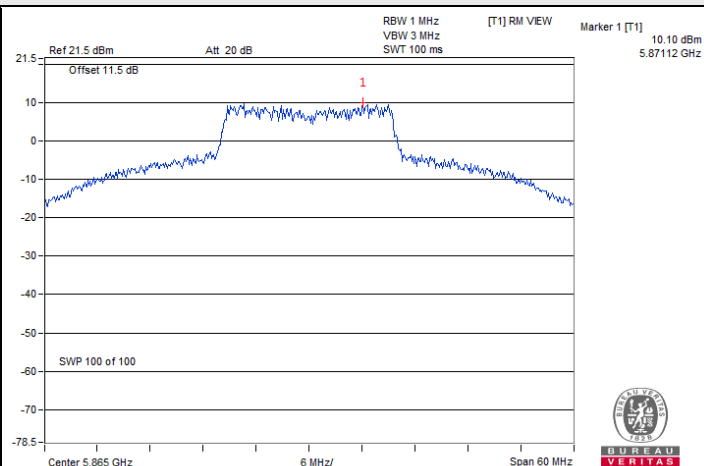
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi



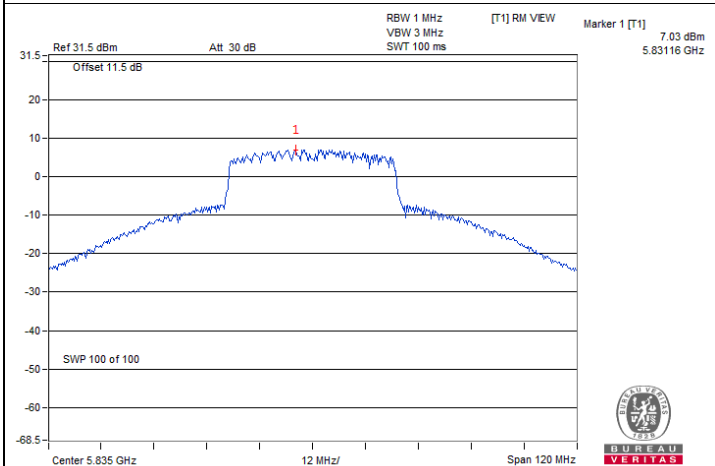
Spectrum Plot of Maximum Value



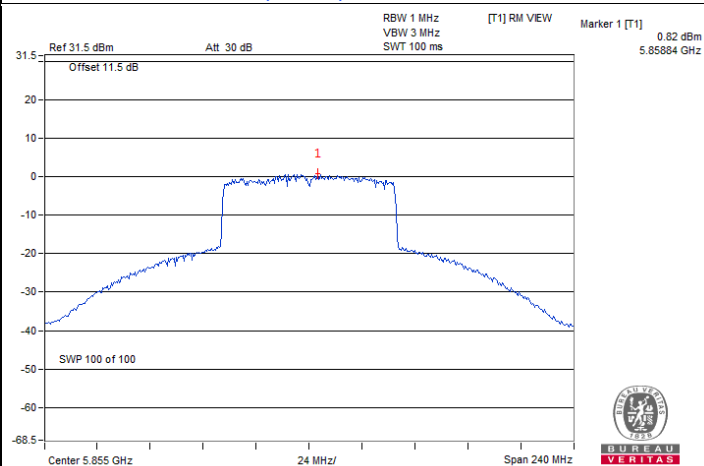
802.11a / Chain 1 : CH 173



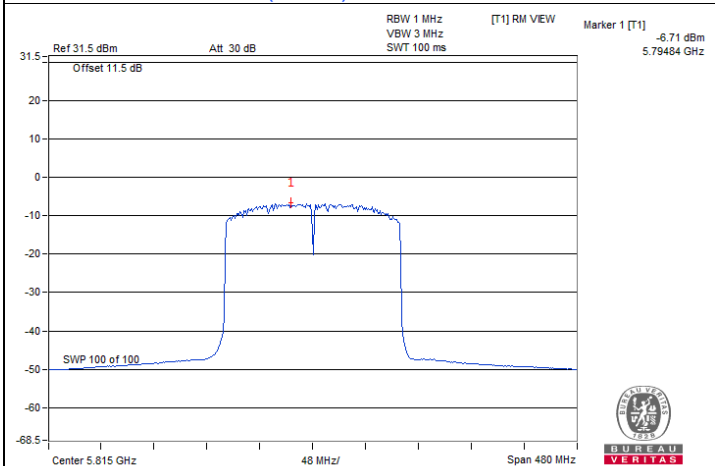
802.11ax (HE20) / Chain 1 : CH 173



802.11ax (HE40) / Chain 1 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

FAP-433G_Radio 3 (Test Mode G)

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	5.37	5.24	5.29	5.38	0.37	11.71	8.26	19.97	20	Pass
173	5865	5.48	5.49	5.37	5.63	0.37	11.88	8.10	19.98	20	Pass
177	5885	4.36	4.34	4.03	4.66	0.37	10.74	8.10	18.84	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
- For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
169	5845	4.84	4.96	4.85	5.28	0.68	11.69	8.26	19.95	20	Pass
173	5865	5.00	5.12	5.07	5.55	0.68	11.89	8.10	19.99	20	Pass
177	5885	4.53	4.73	4.50	4.86	0.68	11.36	8.10	19.46	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
- For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
167	5835	5.14	4.66	4.54	4.52	0.68	11.42	8.26	19.68	20	Pass
175	5875	1.58	1.64	1.49	1.68	0.68	8.30	8.10	16.4	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
- For U-NII-4, The directional gain is 8.1 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
171	5855	-0.95	-1.16	-1.15	-0.73	0.66	5.69	8.26	13.95	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

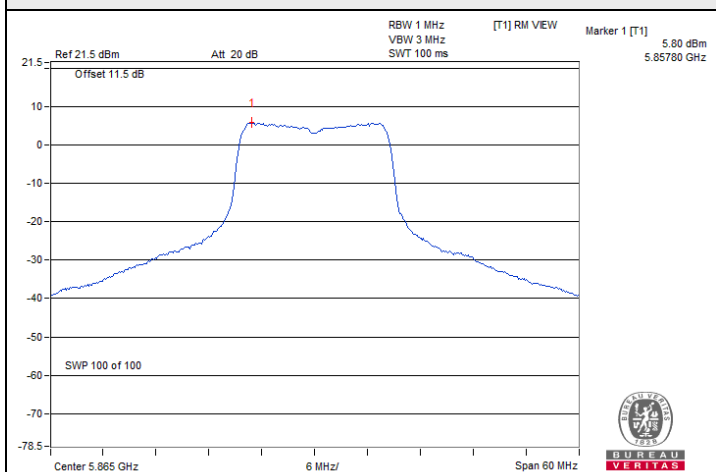
802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3						
163	5815	-3.60	-3.54	-3.57	-3.56	0.38	2.83	8.26	11.09	20	Pass

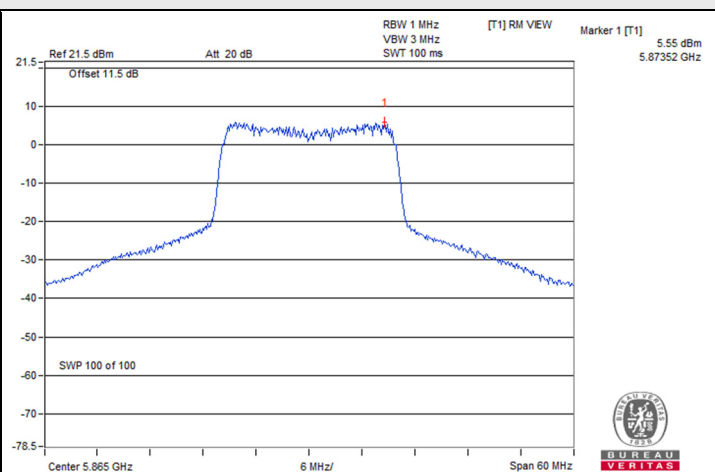
Notes:

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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

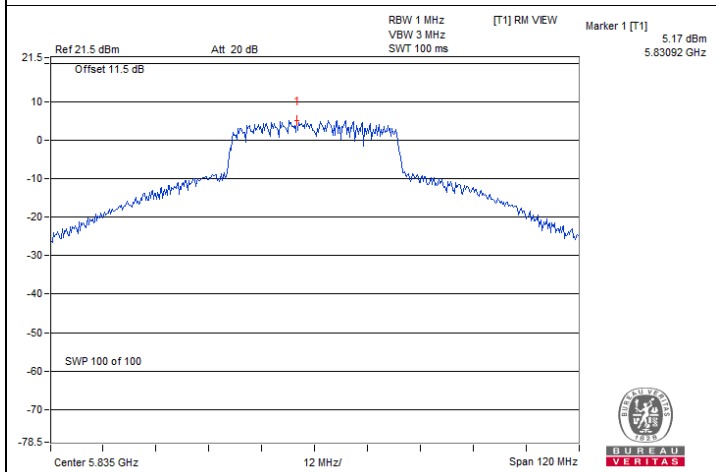
Spectrum Plot of Maximum Value



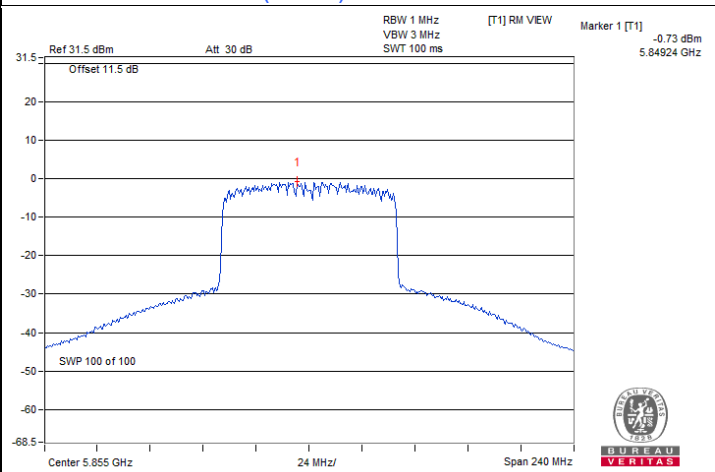
802.11a / Chain 3 : CH 173



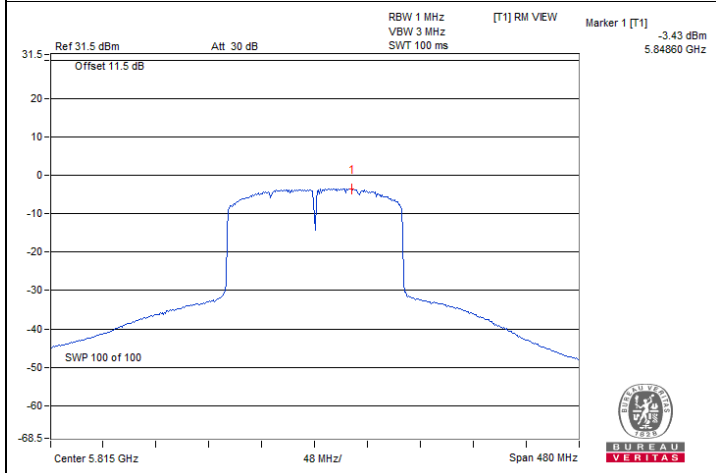
802.11ax (HE20) / Chain 3 : CH 173



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 3 : CH 171



802.11ax (HE160) / Chain 1 : CH 163

FAP-433G_Scanning Radio (Test Mode I)

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
169	5845	8.52	8.37	0.37	11.83	2.30	14.13	20	Pass
173	5865	7.49	7.52	0.37	10.89	2.10	12.99	20	Pass
177	5885	5.85	5.85	0.37	9.23	2.10	11.33	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
169	5845	8.42	8.40	0.68	12.10	2.30	14.4	20	Pass
173	5865	7.24	7.57	0.68	11.10	2.10	13.2	20	Pass
177	5885	5.93	6.01	0.68	9.66	2.10	11.76	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
167	5835	6.14	6.02	0.68	9.77	2.30	12.07	20	Pass
175	5875	3.20	3.09	0.68	6.84	2.10	8.94	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
171	5855	0.70	0.63	0.66	4.34	2.30	6.64	20	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 is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

802.11ax (HE160)

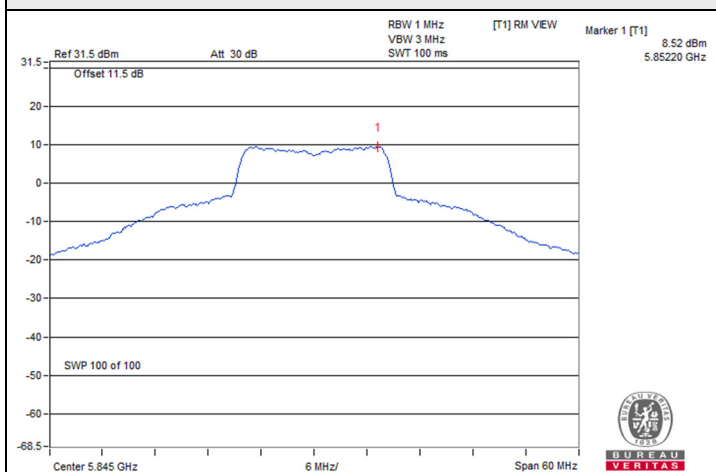
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
163	5815	-3.28	-3.38	0.38	0.06	2.30	2.36	20	Pass

Notes:

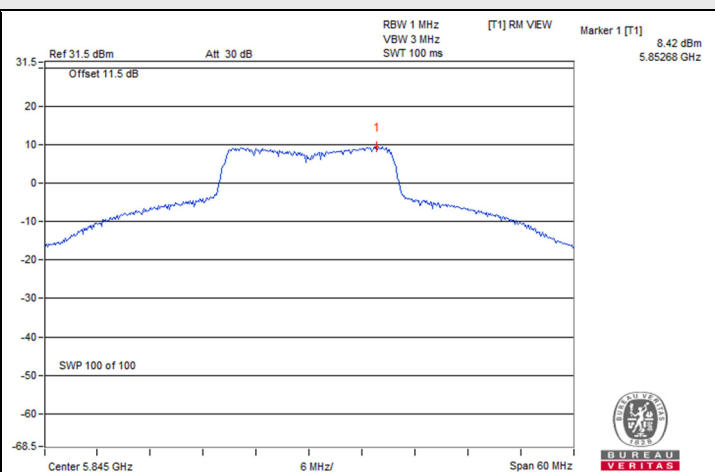
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi



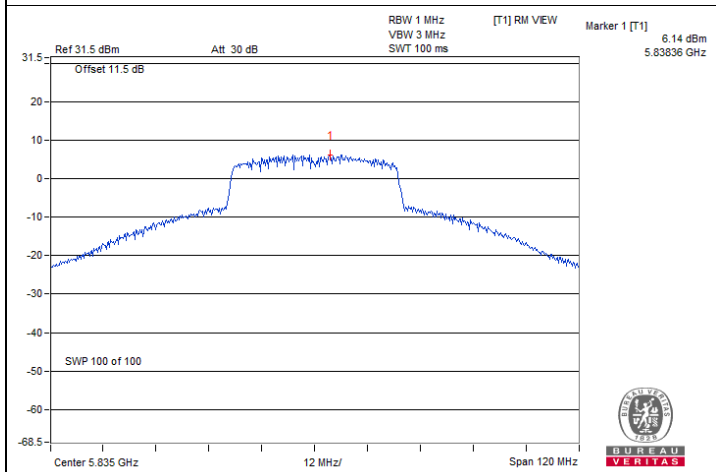
Spectrum Plot of Maximum Value



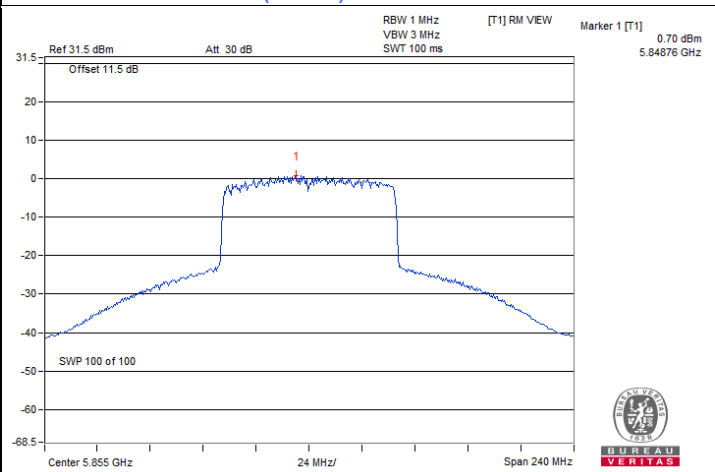
802.11a / Chain 0 : CH 169



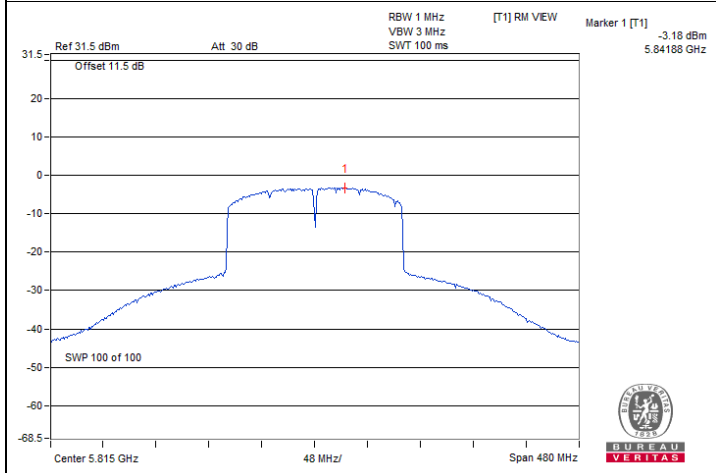
802.11ax (HE20) / Chain 0 : CH 169



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

7.3 6 dB Bandwidth

Input Power:	120Vac, 60Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin, Jisyong Wang, Ivan Tseng
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FAP-431G_Radio 2 (Test Mode A)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	16.38	15.10	16.38	16.38	0.5	Pass
173	5865	16.35	15.97	16.08	16.31	0.5	Pass
177	5885	15.76	15.76	15.77	16.06	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	18.73	16.73	18.95	18.85	0.5	Pass
173	5865	19.01	18.90	18.91	18.88	0.5	Pass
177	5885	18.91	16.72	17.83	18.55	0.5	Pass

802.11ax (HE40)

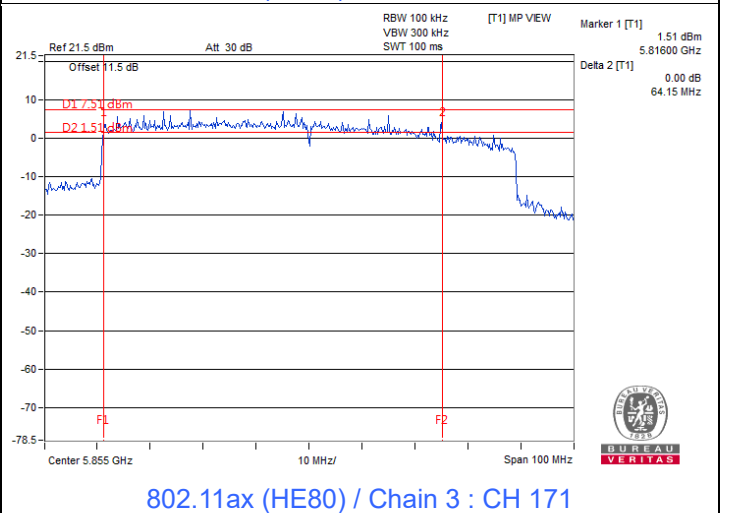
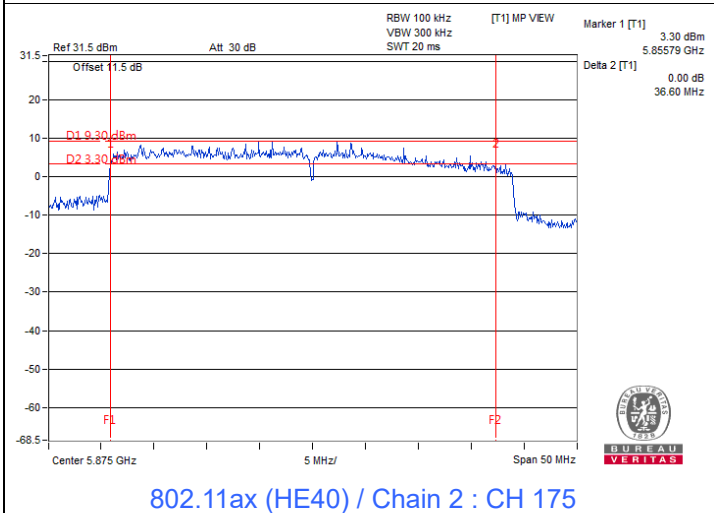
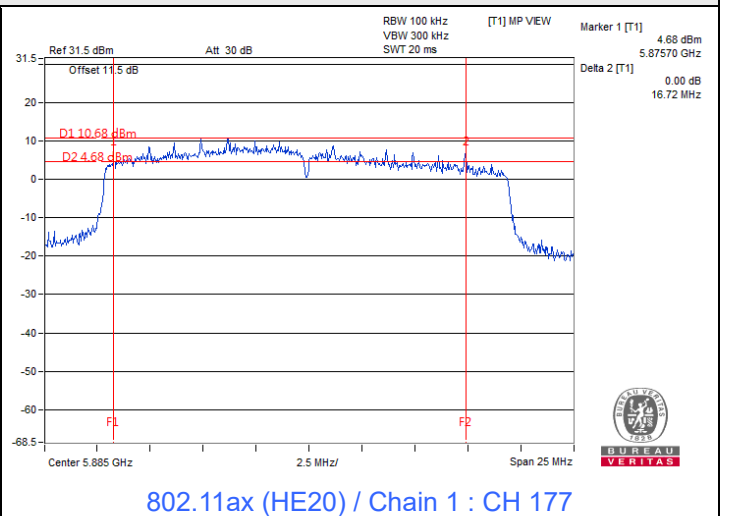
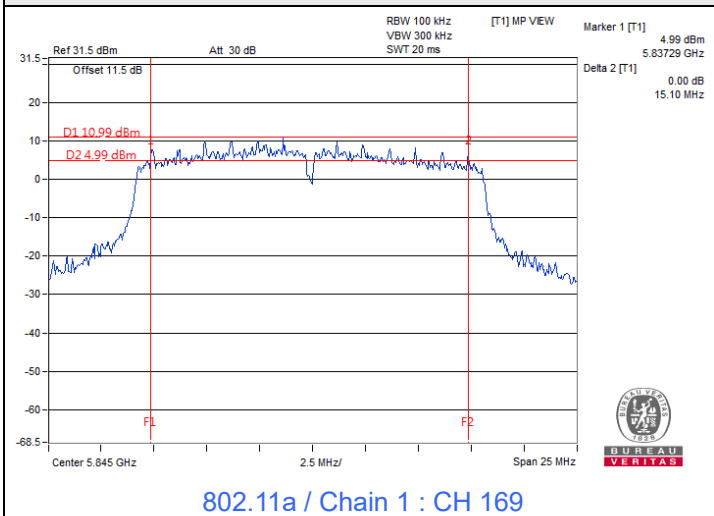
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
167	5835	37.71	38.20	37.73	37.98	0.5	Pass
175	5875	37.83	37.06	36.60	36.72	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
171	5855	71.85	64.18	64.74	64.15	0.5	Pass



Spectrum Plot of Minimum Value



FAP-431G_Radio 3 (Test Mode C)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	16.41	16.41	16.40	16.41	0.5	Pass
173	5865	16.41	16.41	16.39	16.41	0.5	Pass
177	5885	16.40	16.40	16.40	16.41	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	19.14	19.14	19.10	19.15	0.5	Pass
173	5865	19.13	19.14	19.14	19.16	0.5	Pass
177	5885	19.10	19.14	19.14	19.14	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
167	5835	37.73	37.91	37.80	37.99	0.5	Pass
175	5875	37.80	37.97	37.82	37.94	0.5	Pass

802.11ax (HE80)

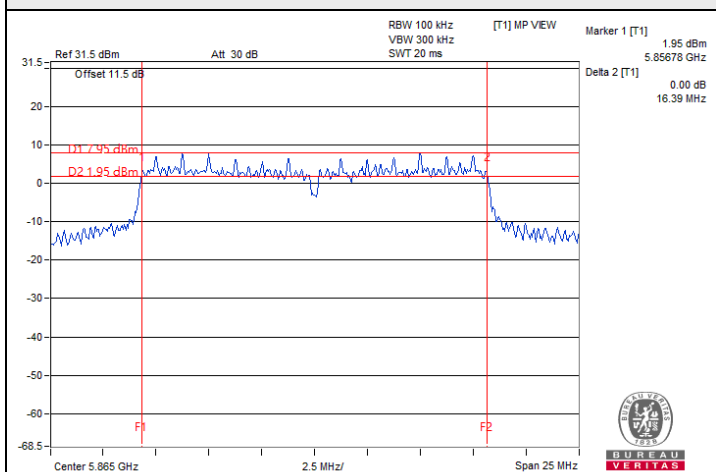
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
171	5855	76.37	77.92	77.71	77.69	0.5	Pass

802.11ax (HE160)

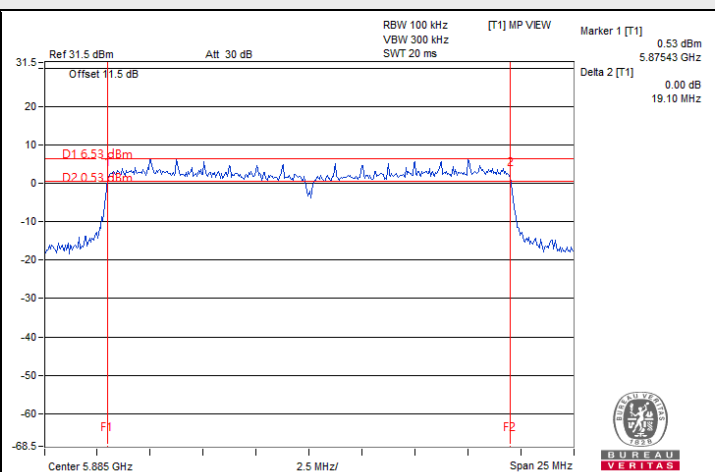
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
163	5815	139.55	152.00	148.60	151.84	0.5	Pass



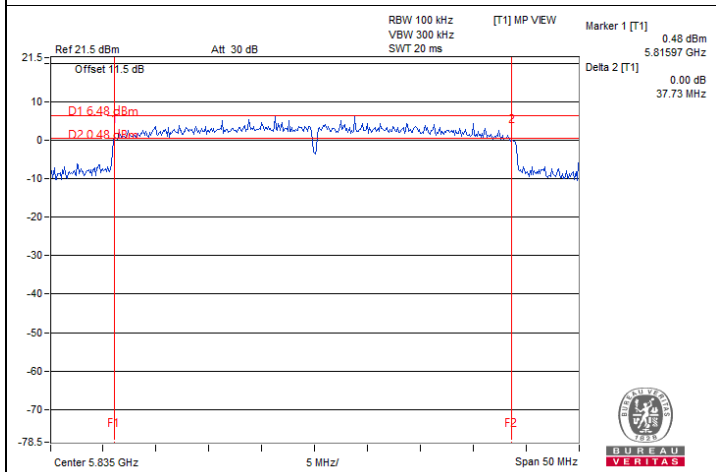
Spectrum Plot of Minimum Value



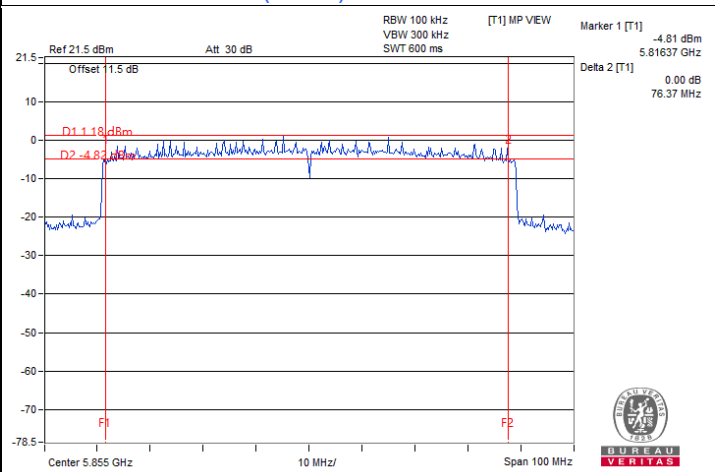
802.11a / Chain 2 : CH 173



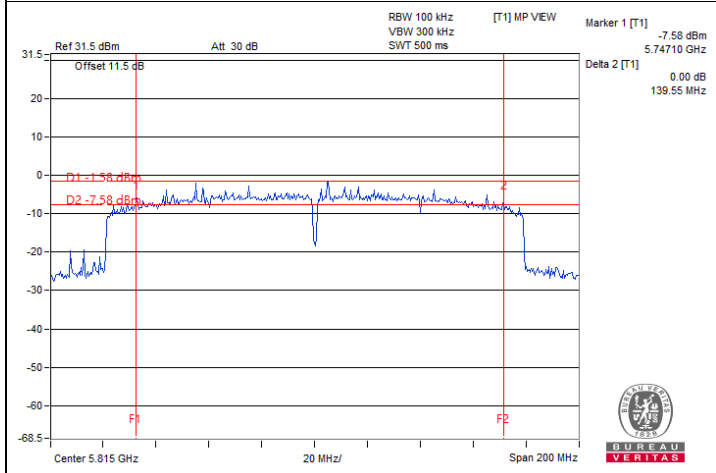
802.11ax (HE20) / Chain 0 : CH 177



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

FAP-431G_Scanning Radio (Test Mode E)
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	16.40	16.45	0.5	Pass
173	5865	16.43	16.43	0.5	Pass
177	5885	16.40	16.39	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	19.06	19.07	0.5	Pass
173	5865	19.16	19.11	0.5	Pass
177	5885	19.14	19.11	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
167	5835	37.44	37.00	0.5	Pass
175	5875	37.81	37.36	0.5	Pass

802.11ax (HE80)

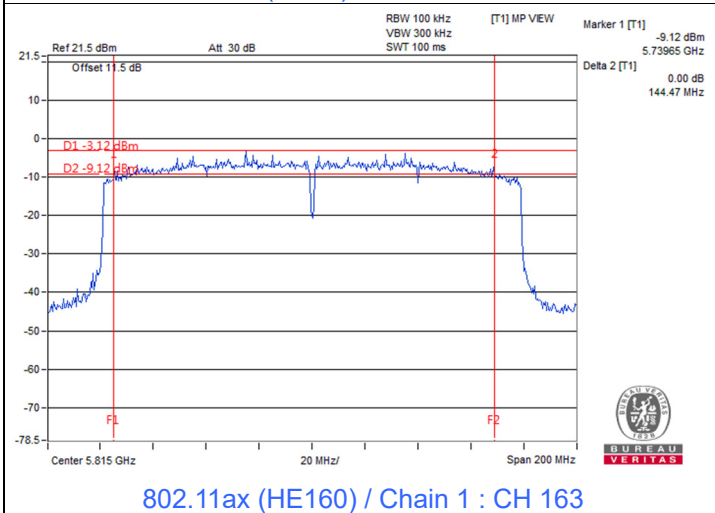
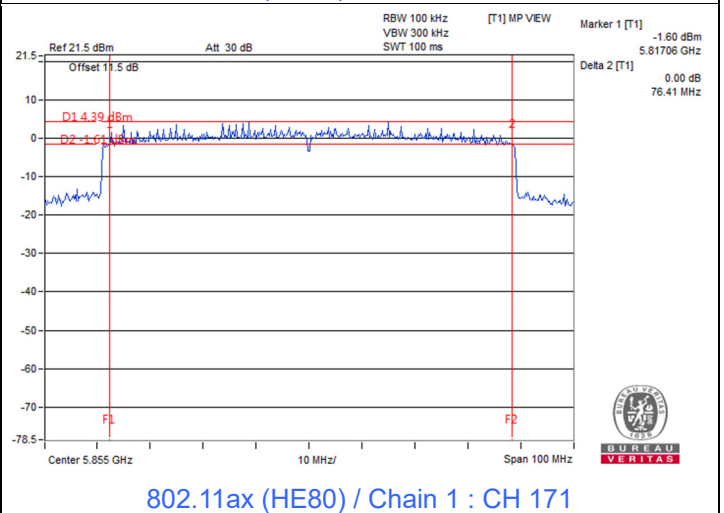
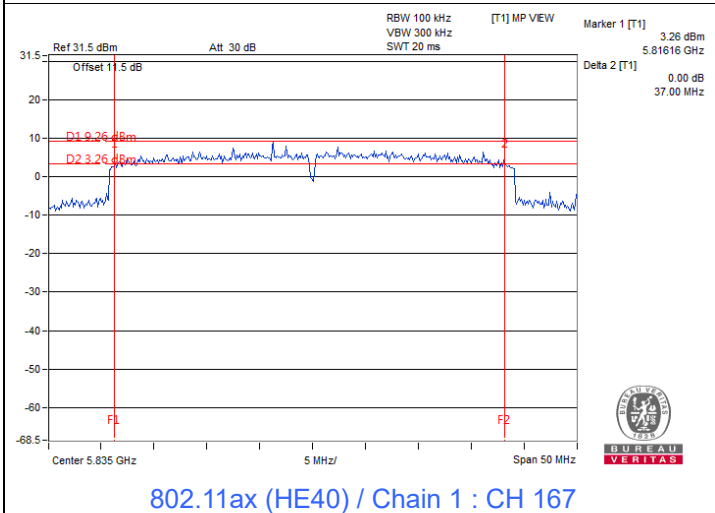
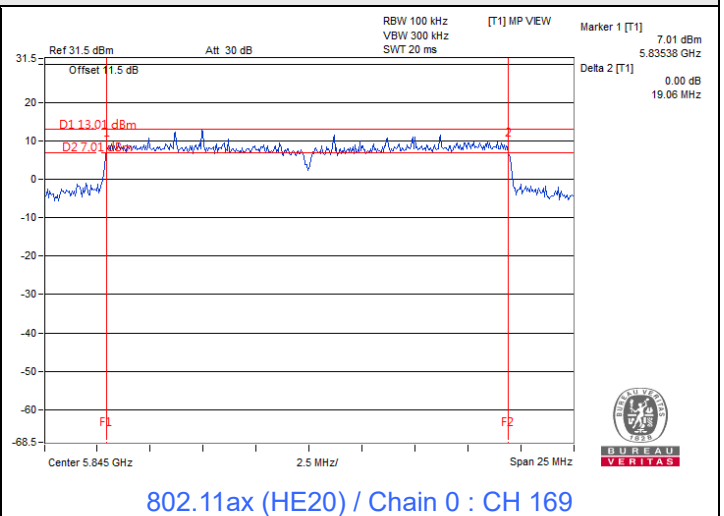
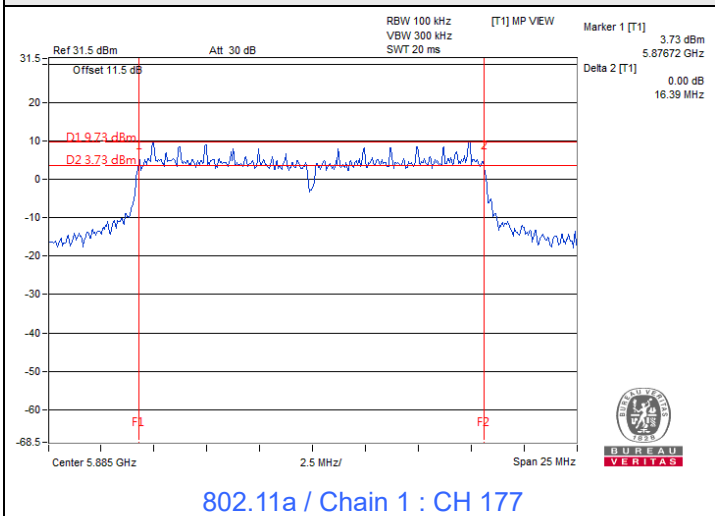
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
171	5855	77.07	76.41	0.5	Pass

802.11ax (HE160)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
163	5815	148.77	144.47	0.5	Pass



Spectrum Plot of Minimum Value



FAP-433G_Radio 3 (Test Mode G)
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	16.37	16.37	16.38	16.37	0.5	Pass
173	5865	16.37	16.37	16.38	16.37	0.5	Pass
177	5885	16.39	16.36	16.37	16.38	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
169	5845	19.08	19.04	19.01	19.02	0.5	Pass
173	5865	19.05	19.05	19.05	19.07	0.5	Pass
177	5885	19.03	19.14	19.06	19.04	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
167	5835	37.99	37.64	37.82	37.23	0.5	Pass
175	5875	37.74	37.81	37.65	37.67	0.5	Pass

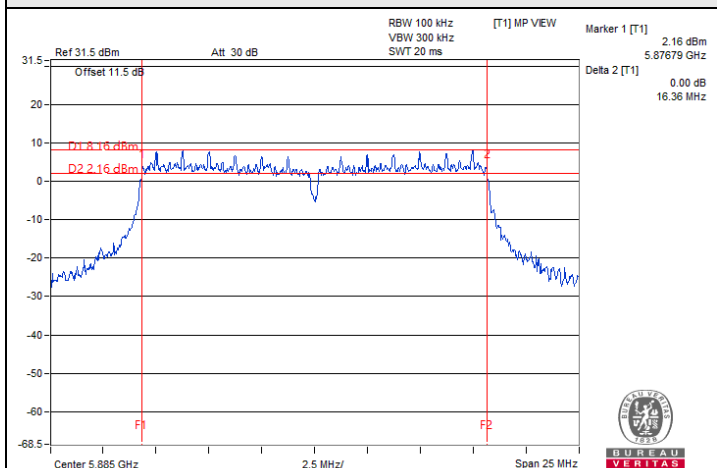
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
171	5855	76.35	76.61	75.49	77.26	0.5	Pass

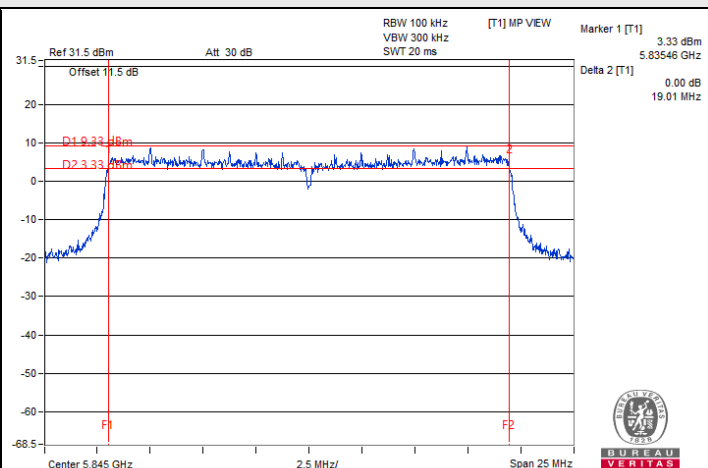
802.11ax (HE160)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
163	5815	151.23	155.27	152.71	151.08	0.5	Pass

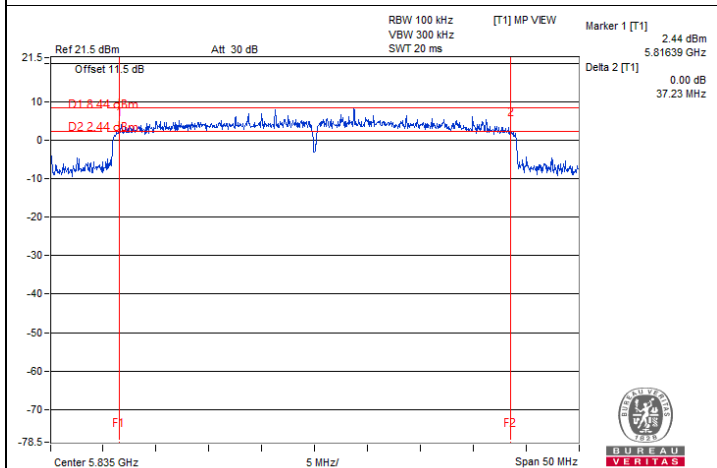
Spectrum Plot of Minimum Value



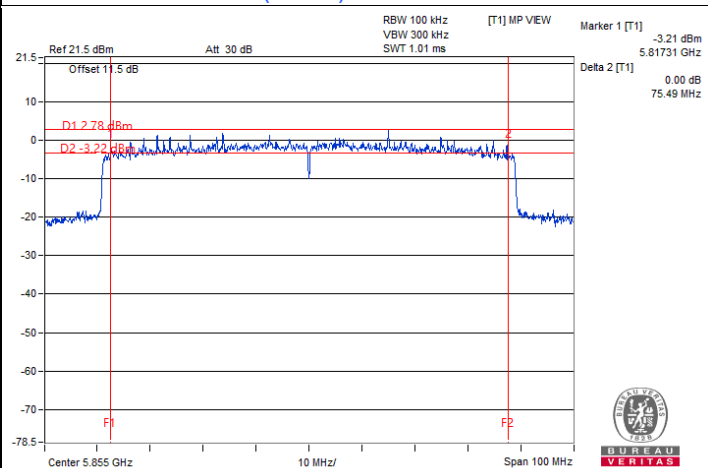
802.11a / Chain 1 : CH 177



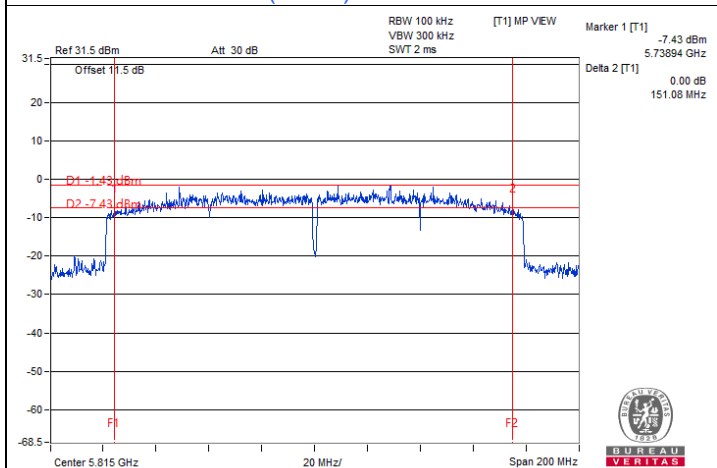
802.11ax (HE20) / Chain 2 : CH 169



802.11ax (HE40) / Chain 3 : CH 167



802.11ax (HE80) / Chain 2 : CH 171



802.11ax (HE160) / Chain 3 : CH 163

FAP-433G_Scanning Radio (Test Mode I)
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	16.44	16.42	0.5	Pass
173	5865	16.40	16.42	0.5	Pass
177	5885	16.40	16.41	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	19.12	19.03	0.5	Pass
173	5865	19.10	19.07	0.5	Pass
177	5885	19.10	19.08	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
167	5835	37.72	37.56	0.5	Pass
175	5875	37.63	37.80	0.5	Pass

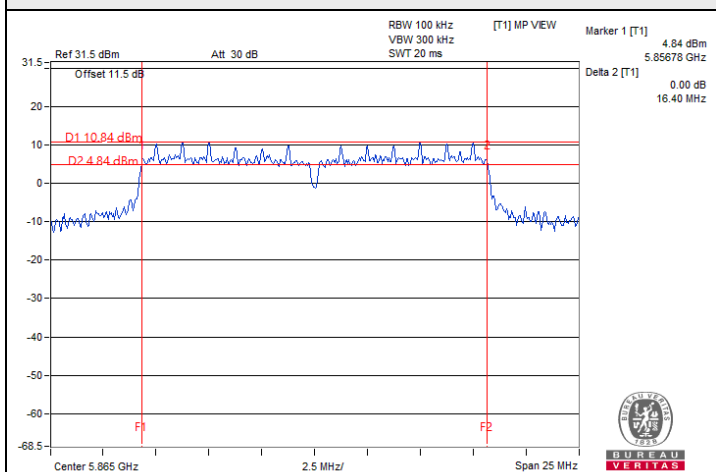
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
171	5855	76.22	76.43	0.5	Pass

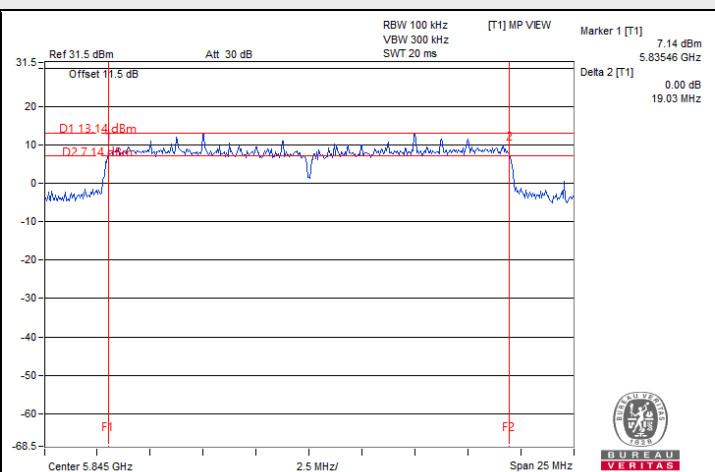
802.11ax (HE160)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
163	5815	151.74	155.33	0.5	Pass

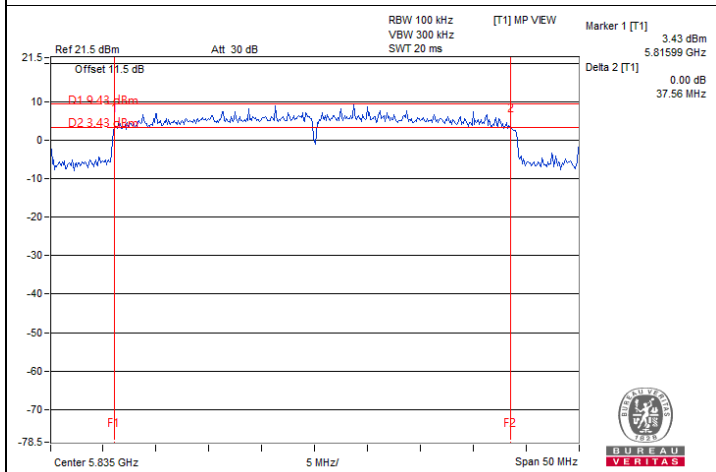
Spectrum Plot of Minimum Value



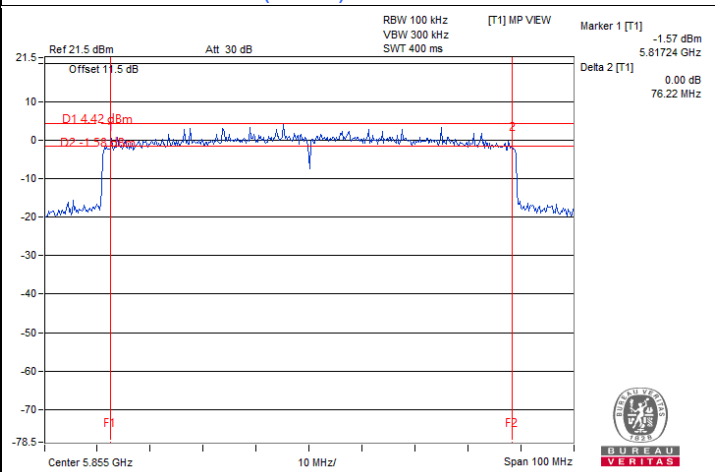
802.11a / Chain 0 : CH 173



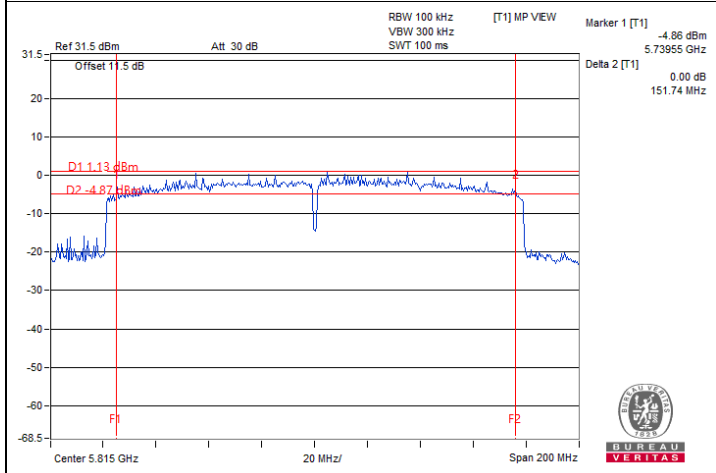
802.11ax (HE20) / Chain 1 : CH 169



802.11ax (HE40) / Chain 1 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

7.4 Frequency Stability

Input Power:	120Vac, 60Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin, Jisyong Wang, Ivan Tseng
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FAP-431G_Radio 2 (Test Mode A)

802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5885 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
50	120	5884.9909	Pass	5884.9914	Pass	5884.9917	Pass	5884.9907	Pass
40	120	5884.975	Pass	5884.9741	Pass	5884.9782	Pass	5884.9762	Pass
30	120	5885.0047	Pass	5885.0079	Pass	5885.0084	Pass	5885.01	Pass
20	120	5885.0214	Pass	5885.0229	Pass	5885.0199	Pass	5885.0199	Pass
10	120	5885.0205	Pass	5885.0161	Pass	5885.0193	Pass	5885.0156	Pass
0	120	5885.0116	Pass	5885.0136	Pass	5885.0107	Pass	5885.0136	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5885 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	5885.0125	Pass	5885.0087	Pass	5885.0126	Pass	5885.0093	Pass
	120	5885.0214	Pass	5885.0229	Pass	5885.0199	Pass	5885.0199	Pass
	102	5885.0096	Pass	5885.0103	Pass	5885.0098	Pass	5885.0112	Pass

FAP-431G_Radio 3 (Test Mode C)
802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5885 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
50	120	5885.001	Pass	5884.9974	Pass	5884.9996	Pass	5884.9989	Pass
40	120	5884.9898	Pass	5884.985	Pass	5884.985	Pass	5884.9848	Pass
30	120	5884.9812	Pass	5884.9804	Pass	5884.9812	Pass	5884.9788	Pass
20	120	5885.0125	Pass	5885.0127	Pass	5885.0131	Pass	5885.0134	Pass
10	120	5885.009	Pass	5885.0108	Pass	5885.0099	Pass	5885.0081	Pass
0	120	5885.0108	Pass	5885.0073	Pass	5885.0105	Pass	5885.011	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5885 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	5884.9992	Pass	5885.0015	Pass	5885.0031	Pass	5885.0016	Pass
	120	5885.0125	Pass	5885.0127	Pass	5885.0131	Pass	5885.0134	Pass
	102	5885.0115	Pass	5885.0081	Pass	5885.008	Pass	5885.0111	Pass

FAP-431G_Scanning Radio (Test Mode E)
802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5885 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
50	120	5884.9947	Pass	5884.9934	Pass	5884.9957	Pass	5884.9946	Pass
40	120	5885.0157	Pass	5885.0169	Pass	5885.0208	Pass	5885.0208	Pass
30	120	5885.0109	Pass	5885.014	Pass	5885.0106	Pass	5885.012	Pass
20	120	5885.0238	Pass	5885.023	Pass	5885.0214	Pass	5885.0218	Pass
10	120	5885.0126	Pass	5885.0123	Pass	5885.0116	Pass	5885.0137	Pass
0	120	5884.9716	Pass	5884.974	Pass	5884.9709	Pass	5884.9716	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5885 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	5885.0219	Pass	5885.0222	Pass	5885.0212	Pass	5885.0236	Pass
	120	5885.0238	Pass	5885.023	Pass	5885.0214	Pass	5885.0218	Pass
	102	5885.0317	Pass	5885.0328	Pass	5885.0323	Pass	5885.0356	Pass

FAP-433G_Radio 3 (Test Mode G)
802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5885 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
50	120	5884.9749	Pass	5884.9772	Pass	5884.9735	Pass	5884.976	Pass
40	120	5884.9923	Pass	5884.9933	Pass	5884.9934	Pass	5884.9932	Pass
30	120	5884.9896	Pass	5884.986	Pass	5884.9868	Pass	5884.9844	Pass
20	120	5884.9904	Pass	5884.9923	Pass	5884.9927	Pass	5884.993	Pass
10	120	5884.9797	Pass	5884.9815	Pass	5884.9806	Pass	5884.9788	Pass
0	120	5884.9756	Pass	5884.978	Pass	5884.9753	Pass	5884.9758	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5885 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	5884.9905	Pass	5884.9869	Pass	5884.9916	Pass	5884.9901	Pass
	120	5884.9904	Pass	5884.9923	Pass	5884.9927	Pass	5884.993	Pass
	102	5884.989	Pass	5884.9856	Pass	5884.9855	Pass	5884.9887	Pass

FAP-433G_Scanning Radio (Test Mode I)
802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5885 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
50	120	5885.0082	Pass	5885.0064	Pass	5885.0088	Pass	5885.0077	Pass
40	120	5884.9876	Pass	5884.9888	Pass	5884.9868	Pass	5884.9868	Pass
30	120	5884.9828	Pass	5884.98	Pass	5884.9825	Pass	5884.978	Pass
20	120	5884.9898	Pass	5884.9917	Pass	5884.9901	Pass	5884.9906	Pass
10	120	5885.0089	Pass	5885.0086	Pass	5885.0079	Pass	5885.01	Pass
0	120	5885.0063	Pass	5885.0029	Pass	5885.0057	Pass	5885.0005	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5885 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	5884.9979	Pass	5884.9982	Pass	5884.9999	Pass	5885.0023	Pass
	120	5884.9898	Pass	5884.9917	Pass	5884.9901	Pass	5884.9906	Pass
	102	5884.9979	Pass	5884.999	Pass	5884.9984	Pass	5885.0017	Pass

7.5 AC Power Conducted Emissions

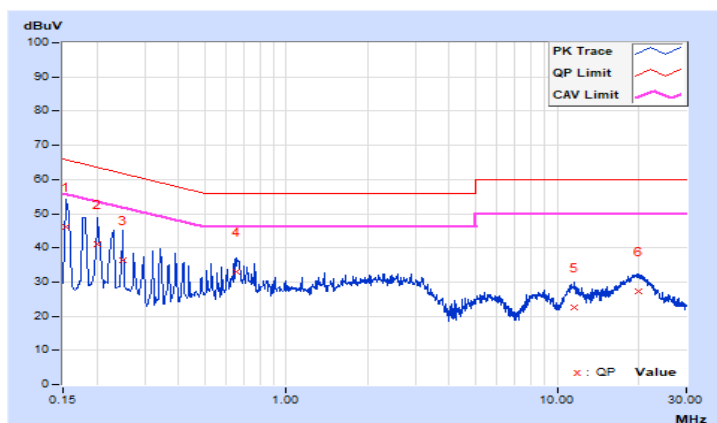
FAP-431G_Radio 2 (Test Mode A)

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 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	25°C, 75% RH
Tested By	Edison Lee		

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	0.15400	9.68	36.33	19.60	46.01	29.28	65.78	55.78	-19.77	-26.50
2	0.20200	9.72	31.25	16.38	40.97	26.10	63.53	53.53	-22.56	-27.43
3	0.25000	9.74	26.63	12.87	36.37	22.61	61.76	51.76	-25.39	-29.15
4	0.65800	9.82	23.18	18.24	33.00	28.06	56.00	46.00	-23.00	-17.94
5	11.55800	10.08	12.47	8.17	22.55	18.25	60.00	50.00	-37.45	-31.75
6	19.88200	10.16	17.23	13.91	27.39	24.07	60.00	50.00	-32.61	-25.93

Remarks:

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

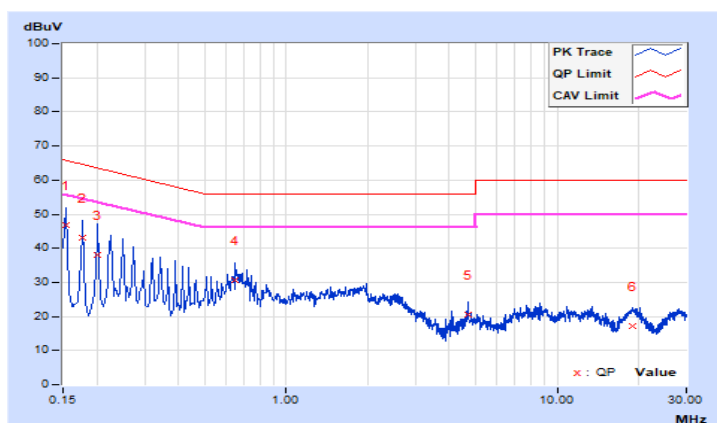


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.15400	9.68	37.21	19.43	46.89	29.11	65.78	55.78	-18.89	-26.67
2	0.17800	9.70	33.41	15.80	43.11	25.50	64.58	54.58	-21.47	-29.08
3	0.20200	9.72	28.22	11.51	37.94	21.23	63.53	53.53	-25.59	-32.30
4	0.65000	9.83	20.73	14.68	30.56	24.51	56.00	46.00	-25.44	-21.49
5	4.67400	9.98	10.72	3.21	20.70	13.19	56.00	46.00	-35.30	-32.81
6	18.96200	10.19	7.03	3.31	17.22	13.50	60.00	50.00	-42.78	-36.50

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



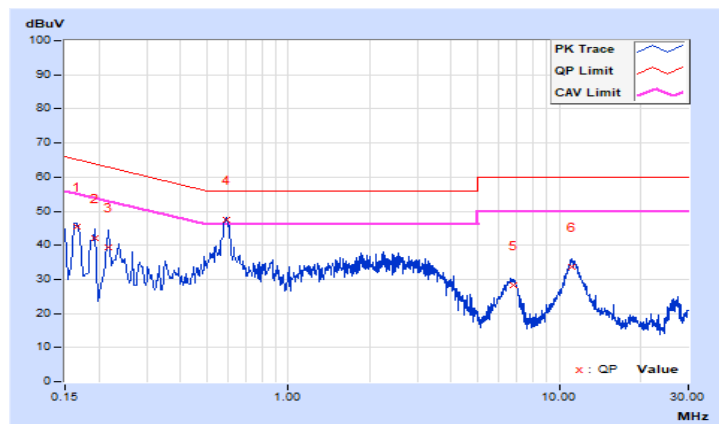
FAP-431G_Radio 2 (Test Mode B)

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.16535	9.63	35.91	19.51	45.54	29.14	65.19	55.19	-19.65	-26.05
2	0.19400	9.64	32.39	17.17	42.03	26.81	63.86	53.86	-21.83	-27.05
3	0.21800	9.64	29.67	15.98	39.31	25.62	62.89	52.89	-23.58	-27.27
4	0.58874	9.69	37.77	31.28	47.46	40.97	56.00	46.00	-8.54	-5.03
5	6.74200	9.78	18.66	15.80	28.44	25.58	60.00	50.00	-31.56	-24.42
6	11.19800	9.82	23.85	17.55	33.67	27.37	60.00	50.00	-26.33	-22.63

Remarks:

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

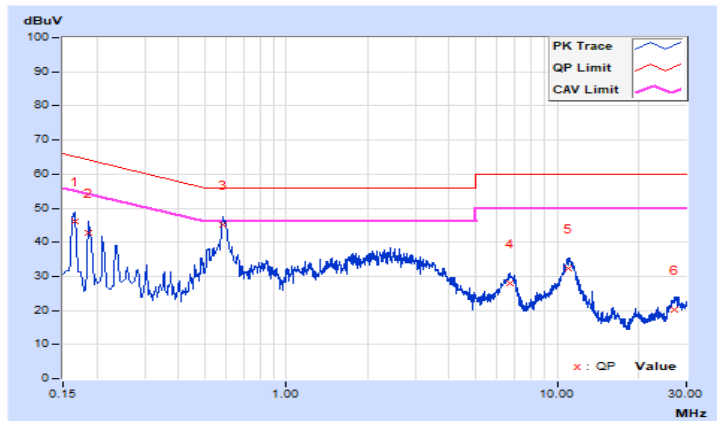


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.16579	9.63	36.53	20.69	46.16	30.32	65.17	55.17	-19.01	-24.85
2	0.18600	9.63	33.07	17.67	42.70	27.30	64.21	54.21	-21.51	-26.91
3	0.58600	9.69	35.59	29.11	45.28	38.80	56.00	46.00	-10.72	-7.20
4	6.67400	9.78	18.20	12.60	27.98	22.38	60.00	50.00	-32.02	-27.62
5	10.95000	9.82	22.38	16.36	32.20	26.18	60.00	50.00	-27.80	-23.82
6	27.20200	9.87	10.31	5.30	20.18	15.17	60.00	50.00	-39.82	-34.83

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



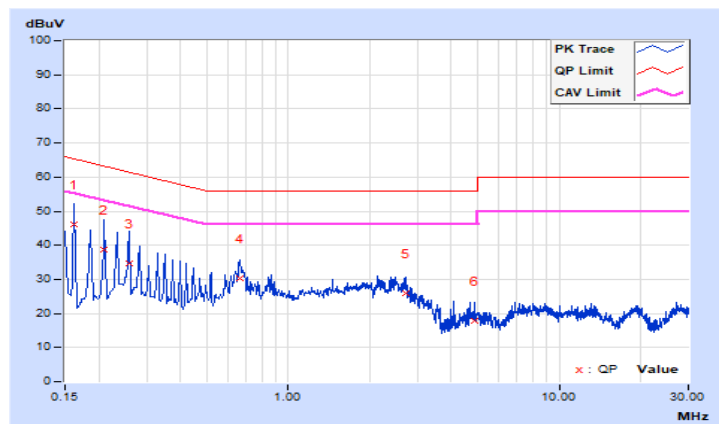
FAP-431G_Radio 3 (Test Mode C)

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 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	25°C, 75% RH
Tested By	Edison Lee		

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	0.16200	9.69	36.31	18.18	46.00	27.87	65.36	55.36	-19.36	-27.49
2	0.21000	9.72	29.05	12.23	38.77	21.95	63.21	53.21	-24.44	-31.26
3	0.25800	9.74	25.10	12.44	34.84	22.18	61.50	51.50	-26.66	-29.32
4	0.66600	9.82	20.38	15.67	30.20	25.49	56.00	46.00	-25.80	-20.51
5	2.71400	9.92	15.98	11.42	25.90	21.34	56.00	46.00	-30.10	-24.66
6	4.88200	9.97	8.00	3.75	17.97	13.72	56.00	46.00	-38.03	-32.28

Remarks:

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

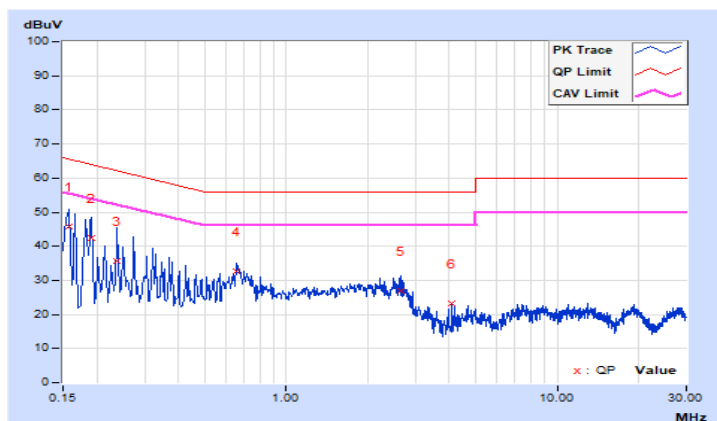


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.15800	9.69	36.23	17.69	45.92	27.38	65.57	55.57	-19.65	-28.19
2	0.19000	9.71	32.74	15.42	42.45	25.13	64.04	54.04	-21.59	-28.91
3	0.23800	9.74	26.08	13.07	35.82	22.81	62.17	52.17	-26.35	-29.36
4	0.65763	9.83	22.99	17.60	32.82	27.43	56.00	46.00	-23.18	-18.57
5	2.64600	9.94	17.04	12.69	26.98	22.63	56.00	46.00	-29.02	-23.37
6	4.06600	9.97	13.29	2.47	23.26	12.44	56.00	46.00	-32.74	-33.56

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



FAP-431G_Radio 3 (Test Mode D)

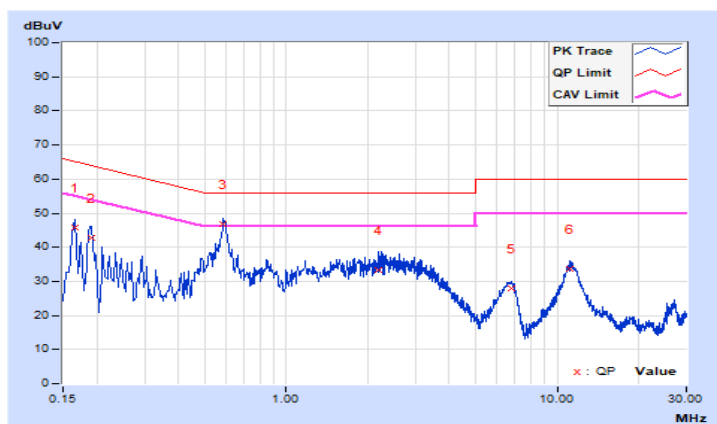
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16579	9.63	36.16	20.86	45.79	30.49	65.17	55.17	-19.38	-24.68
2	0.19000	9.64	33.28	17.51	42.92	27.15	64.04	54.04	-21.12	-26.89
3	0.58600	9.69	37.06	30.70	46.75	40.39	56.00	46.00	-9.25	-5.61
4	2.18600	9.72	23.77	16.16	33.49	25.88	56.00	46.00	-22.51	-20.12
5	6.78200	9.78	18.32	14.21	28.10	23.99	60.00	50.00	-31.90	-26.01
6	11.14200	9.82	23.73	17.21	33.55	27.03	60.00	50.00	-26.45	-22.97

Remarks:

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

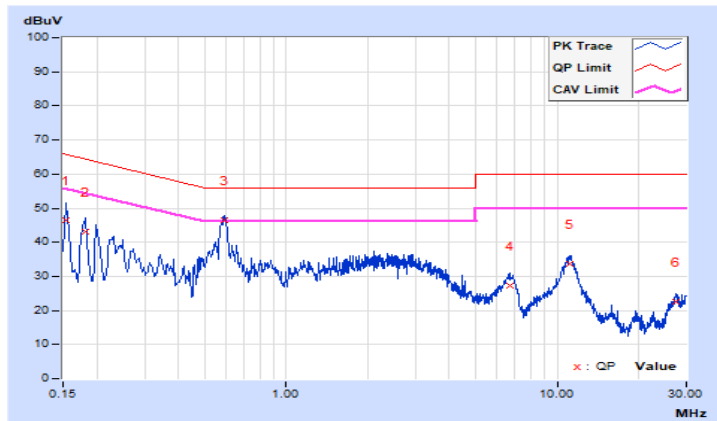


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.15400	9.62	36.79	20.36	46.41	29.98	65.78	55.78	-19.37	-25.80
2	0.18200	9.63	33.33	18.26	42.96	27.89	64.39	54.39	-21.43	-26.50
3	0.59400	9.69	36.86	30.23	46.55	39.92	56.00	46.00	-9.45	-6.08
4	6.71800	9.78	17.39	14.44	27.17	24.22	60.00	50.00	-32.83	-25.78
5	11.19000	9.82	23.75	17.29	33.57	27.11	60.00	50.00	-26.43	-22.89
6	27.41000	9.87	12.69	8.14	22.56	18.01	60.00	50.00	-37.44	-31.99

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



FAP-431G_Scanning Radio (Test Mode E)

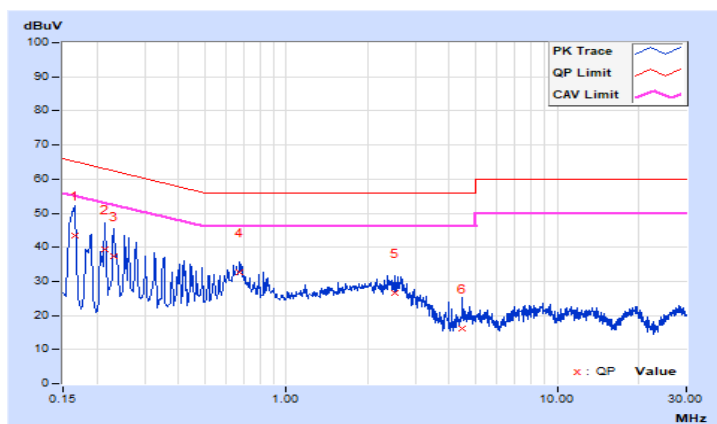
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16579	9.69	33.89	14.58	43.58	24.27	65.17	55.17	-21.59	-30.90
2	0.21400	9.73	29.69	14.15	39.42	23.88	63.05	53.05	-23.63	-29.17
3	0.23000	9.73	27.66	12.45	37.39	22.18	62.45	52.45	-25.06	-30.27
4	0.67000	9.82	22.73	16.48	32.55	26.30	56.00	46.00	-23.45	-19.70
5	2.51400	9.91	16.71	12.63	26.62	22.54	56.00	46.00	-29.38	-23.46
6	4.48200	9.96	6.06	1.13	16.02	11.09	56.00	46.00	-39.98	-34.91

Remarks:

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

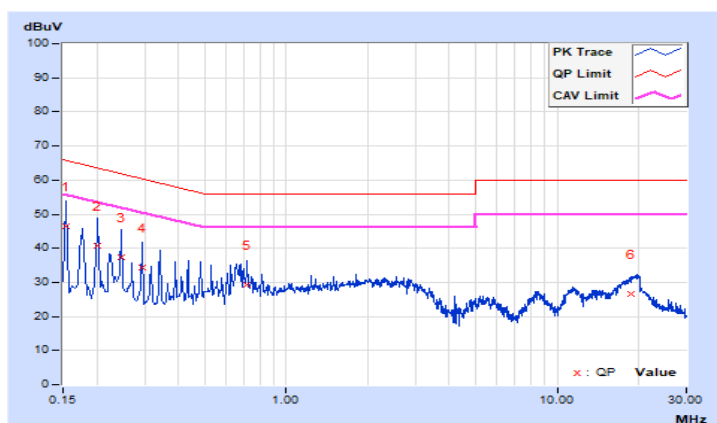


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.15400	9.68	36.64	20.68	46.32	30.36	65.78	55.78	-19.46	-25.42
2	0.20200	9.72	31.09	17.18	40.81	26.90	63.53	53.53	-22.72	-26.63
3	0.24600	9.74	27.80	14.63	37.54	24.37	61.89	51.89	-24.35	-27.52
4	0.29400	9.76	24.70	11.66	34.46	21.42	60.41	50.41	-25.95	-28.99
5	0.71800	9.84	19.37	14.20	29.21	24.04	56.00	46.00	-26.79	-21.96
6	18.67800	10.18	16.30	12.53	26.48	22.71	60.00	50.00	-33.52	-27.29

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



FAP-431G_Scanning Radio (Test Mode F)

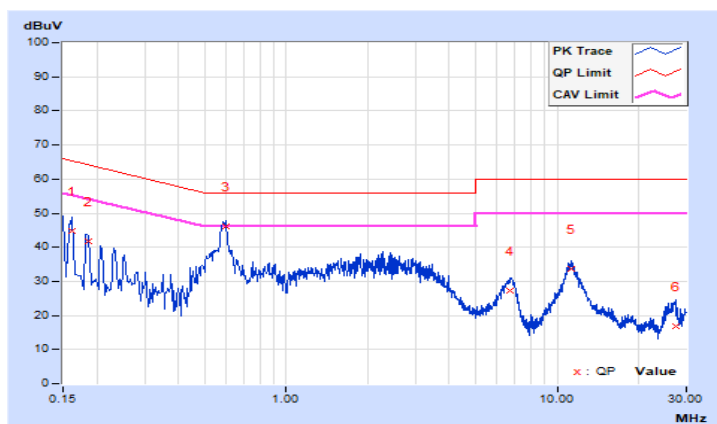
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.16200	9.62	35.31	20.21	44.93	29.83	65.36	55.36	-20.43	-25.53
2	0.18600	9.63	32.15	17.06	41.78	26.69	64.21	54.21	-22.43	-27.52
3	0.59800	9.69	36.57	29.18	46.26	38.87	56.00	46.00	-9.74	-7.13
4	6.73800	9.78	17.42	14.48	27.20	24.26	60.00	50.00	-32.80	-25.74
5	11.27800	9.82	23.85	17.58	33.67	27.40	60.00	50.00	-26.33	-22.60
6	27.41800	9.88	6.92	1.91	16.80	11.79	60.00	50.00	-43.20	-38.21

Remarks:

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

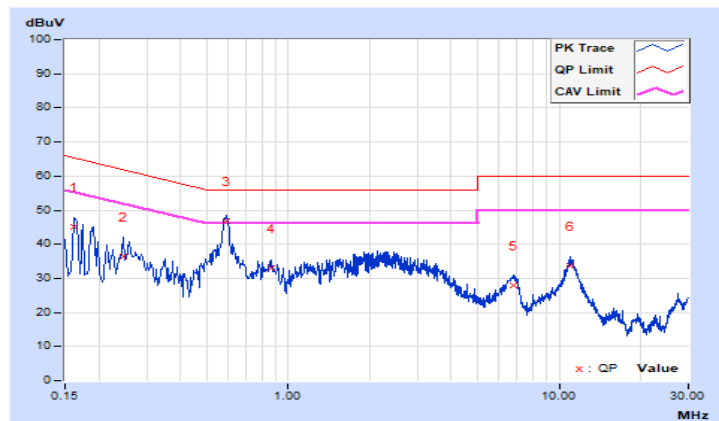


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.16200	9.62	35.52	21.37	45.14	30.99	65.36	55.36	-20.22	-24.37
2	0.24600	9.65	26.59	20.09	36.24	29.74	61.89	51.89	-25.65	-22.15
3	0.59000	9.69	37.24	30.91	46.93	40.60	56.00	46.00	-9.07	-5.40
4	0.86600	9.70	23.13	16.19	32.83	25.89	56.00	46.00	-23.17	-20.11
5	6.76200	9.78	18.18	15.34	27.96	25.12	60.00	50.00	-32.04	-24.88
6	11.00200	9.82	23.80	17.41	33.62	27.23	60.00	50.00	-26.38	-22.77

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



FAP-433G_Radio 3 (Test Mode G)

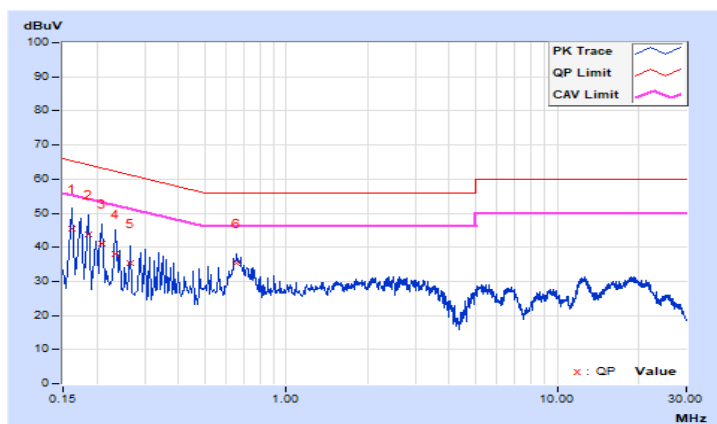
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.16200	9.69	35.71	18.18	45.40	27.87	65.36	55.36	-19.96	-27.49
2	0.18600	9.71	34.13	18.20	43.84	27.91	64.21	54.21	-20.37	-26.30
3	0.21000	9.72	31.24	16.75	40.96	26.47	63.21	53.21	-22.25	-26.74
4	0.23400	9.73	28.23	15.73	37.96	25.46	62.31	52.31	-24.35	-26.85
5	0.26600	9.75	25.59	14.32	35.34	24.07	61.24	51.24	-25.90	-27.17
6	0.65800	9.82	25.66	19.90	35.48	29.72	56.00	46.00	-20.52	-16.28

Remarks:

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

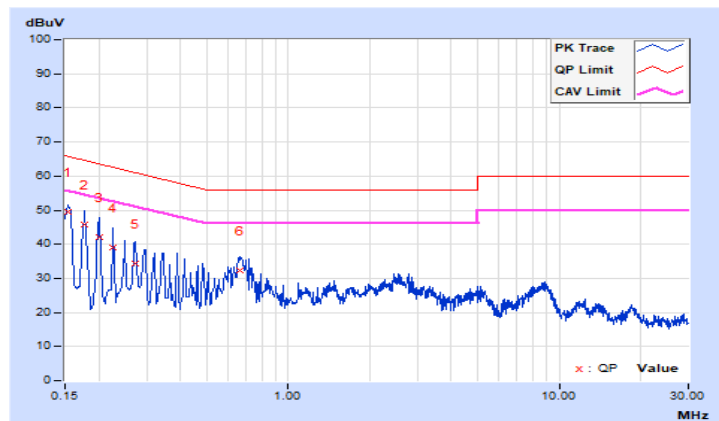


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.15400	9.68	39.72	22.92	49.40	32.60	65.78	55.78	-16.38	-23.18
2	0.17800	9.70	36.06	19.22	45.76	28.92	64.58	54.58	-18.82	-25.66
3	0.20200	9.72	32.40	16.06	42.12	25.78	63.53	53.53	-21.41	-27.75
4	0.22600	9.73	29.43	14.65	39.16	24.38	62.60	52.60	-23.44	-28.22
5	0.27135	9.75	24.71	12.02	34.46	21.77	61.08	51.08	-26.62	-29.31
6	0.66200	9.83	22.60	17.61	32.43	27.44	56.00	46.00	-23.57	-18.56

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



FAP-433G_Radio 3 (Test Mode H)

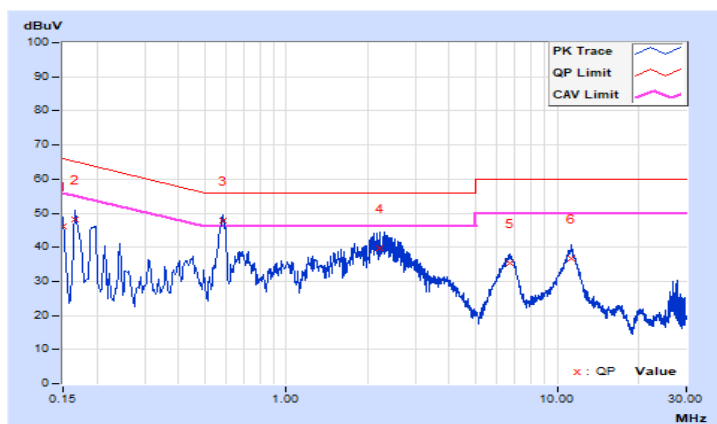
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	9.68	36.42	25.10	46.10	34.78	66.00	56.00	-19.90	-21.22
2	0.16600	9.69	38.59	24.60	48.28	34.29	65.16	55.16	-16.88	-20.87
3	0.58200	9.81	38.01	29.98	47.82	39.79	56.00	46.00	-8.18	-6.21
4	2.22600	9.91	29.85	20.50	39.76	30.41	56.00	46.00	-16.24	-15.59
5	6.72200	10.00	25.25	22.31	35.25	32.31	60.00	50.00	-24.75	-17.69
6	11.29800	10.07	26.64	20.79	36.71	30.86	60.00	50.00	-23.29	-19.14

Remarks:

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

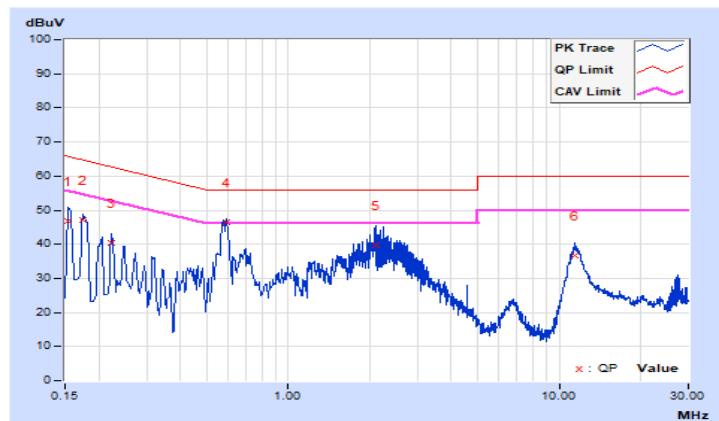


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.15400	9.68	37.05	19.29	46.73	28.97	65.78	55.78	-19.05	-26.81
2	0.17400	9.70	37.41	19.52	47.11	29.22	64.77	54.77	-17.66	-25.55
3	0.22200	9.73	30.56	15.60	40.29	25.33	62.74	52.74	-22.45	-27.41
4	0.59000	9.83	36.65	29.68	46.48	39.51	56.00	46.00	-9.52	-6.49
5	2.10200	9.92	29.67	20.58	39.59	30.50	56.00	46.00	-16.41	-15.50
6	11.44600	10.08	26.55	20.06	36.63	30.14	60.00	50.00	-23.37	-19.86

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



FAP-433G_Scanning Radio (Test Mode I)

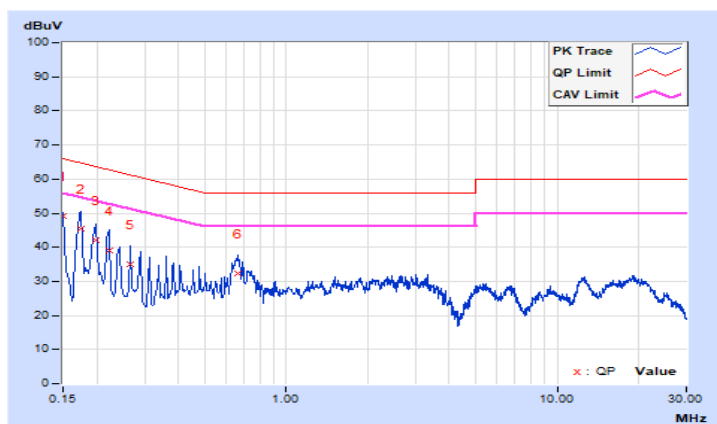
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	9.68	39.53	24.77	49.21	34.45	66.00	56.00	-16.79	-21.55
2	0.17384	9.70	35.80	21.39	45.50	31.09	64.77	54.77	-19.27	-23.68
3	0.19800	9.72	32.29	18.21	42.01	27.93	63.69	53.69	-21.68	-25.76
4	0.22200	9.73	29.22	15.55	38.95	25.28	62.74	52.74	-23.79	-27.46
5	0.26600	9.75	25.27	14.28	35.02	24.03	61.24	51.24	-26.22	-27.21
6	0.66600	9.82	22.56	17.64	32.38	27.46	56.00	46.00	-23.62	-18.54

Remarks:

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

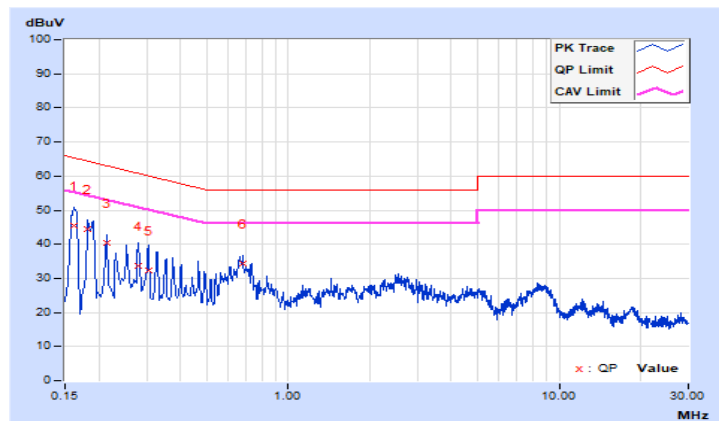


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.16190	9.69	35.84	17.02	45.53	26.71	65.37	55.37	-19.84	-28.66
2	0.18200	9.71	34.81	17.92	44.52	27.63	64.39	54.39	-19.87	-26.76
3	0.21400	9.73	30.68	15.44	40.41	25.17	63.05	53.05	-22.64	-27.88
4	0.27800	9.76	23.81	12.09	33.57	21.85	60.88	50.88	-27.31	-29.03
5	0.30550	9.77	22.42	10.74	32.19	20.51	60.09	50.09	-27.90	-29.58
6	0.67800	9.83	24.65	19.21	34.48	29.04	56.00	46.00	-21.52	-16.96

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



FAP-433G_Scanning Radio (Test Mode J)

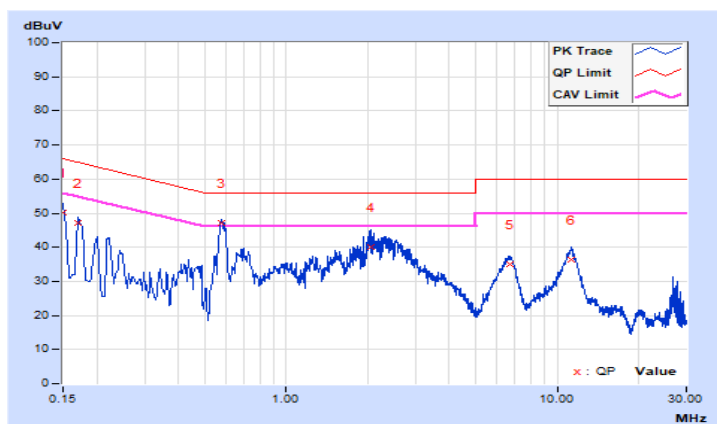
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	9.68	40.43	23.36	50.11	33.04	66.00	56.00	-15.89	-22.96
2	0.17000	9.70	37.58	22.59	47.28	32.29	64.96	54.96	-17.68	-22.67
3	0.57400	9.81	37.31	30.76	47.12	40.57	56.00	46.00	-8.88	-5.43
4	2.04200	9.90	30.33	21.87	40.23	31.77	56.00	46.00	-15.77	-14.23
5	6.66600	10.00	25.13	22.20	35.13	32.20	60.00	50.00	-24.87	-17.80
6	11.31000	10.07	26.41	20.49	36.48	30.56	60.00	50.00	-23.52	-19.44

Remarks:

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

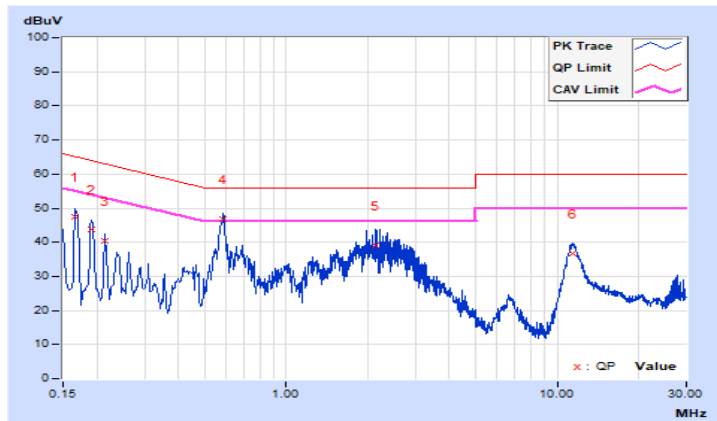


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	55 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Rex Wang		

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	0.16600	9.69	37.88	22.40	47.57	32.09	65.16	55.16	-17.59	-23.07
2	0.19000	9.71	34.13	18.60	43.84	28.31	64.04	54.04	-20.20	-25.73
3	0.21400	9.73	30.56	16.24	40.29	25.97	63.05	53.05	-22.76	-27.08
4	0.58600	9.83	37.03	29.18	46.86	39.01	56.00	46.00	-9.14	-6.99
5	2.13400	9.92	29.18	19.70	39.10	29.62	56.00	46.00	-16.90	-16.38
6	11.37400	10.08	26.65	20.14	36.73	30.22	60.00	50.00	-23.27	-19.78

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



7.6 Unwanted Emissions below 1 GHz

FAP-431G_Radio 2 (Test Mode A)

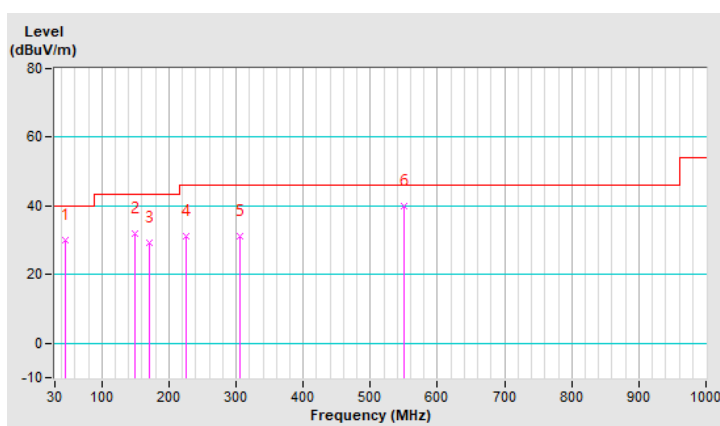
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	46.49	30.2 QP	40.0	-9.8	1.99 H	101	43.5	-13.3
2	148.34	31.9 QP	43.5	-11.6	1.99 H	240	45.2	-13.3
3	171.62	29.2 QP	43.5	-14.3	1.51 H	208	43.1	-13.9
4	225.94	31.2 QP	46.0	-14.8	1.00 H	43	47.9	-16.7
5	305.48	31.3 QP	46.0	-14.7	1.51 H	324	44.2	-12.9
6	549.92	39.8 QP	46.0	-6.2	1.99 H	73	47.1	-7.3

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

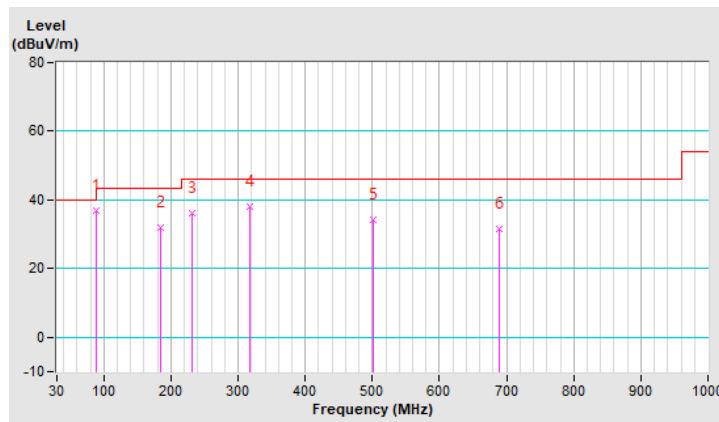


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	89.17	36.9 QP	43.5	-6.6	1.51 V	81	56.1	-19.2
2	184.23	31.8 QP	43.5	-11.7	1.51 V	140	47.1	-15.3
3	231.76	36.2 QP	46.0	-9.8	1.99 V	321	52.0	-15.8
4	318.09	37.9 QP	46.0	-8.1	1.51 V	140	50.3	-12.4
5	500.45	34.3 QP	46.0	-11.7	1.51 V	350	42.6	-8.3
6	689.60	31.5 QP	46.0	-14.5	1.51 V	103	36.0	-4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-431G_Radio 2 (Test Mode B)

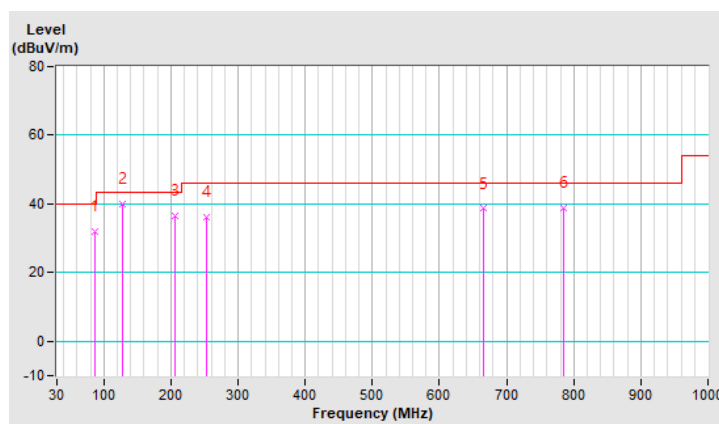
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	87.64	31.9 QP	40.0	-8.1	1.99 H	256	50.8	-18.9
2	127.00	40.1 QP	43.5	-3.4	1.49 H	205	54.9	-14.8
3	205.72	36.6 QP	43.5	-6.9	1.00 H	258	53.4	-16.8
4	253.52	36.1 QP	46.0	-9.9	1.00 H	66	50.3	-14.2
5	665.42	38.6 QP	46.0	-7.4	1.00 H	193	43.2	-4.6
6	784.91	38.9 QP	46.0	-7.1	1.99 H	220	41.4	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

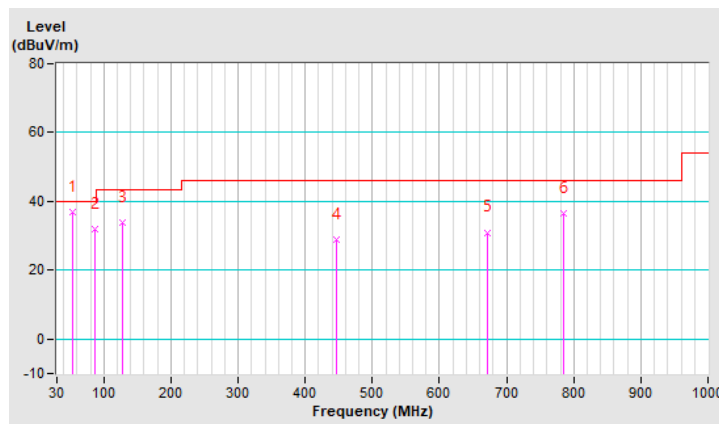


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	52.49	36.8 QP	40.0	-3.2	1.01 V	320	50.0	-13.2
2	87.64	31.9 QP	40.0	-8.1	2.00 V	265	50.8	-18.9
3	127.00	33.7 QP	43.5	-9.8	2.00 V	276	48.5	-14.8
4	446.12	28.8 QP	46.0	-17.2	1.01 V	315	37.5	-8.7
5	671.04	31.0 QP	46.0	-15.0	1.51 V	189	35.6	-4.6
6	784.91	36.7 QP	46.0	-9.3	1.51 V	2	39.2	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-431G_Radio 3 (Test Mode C)

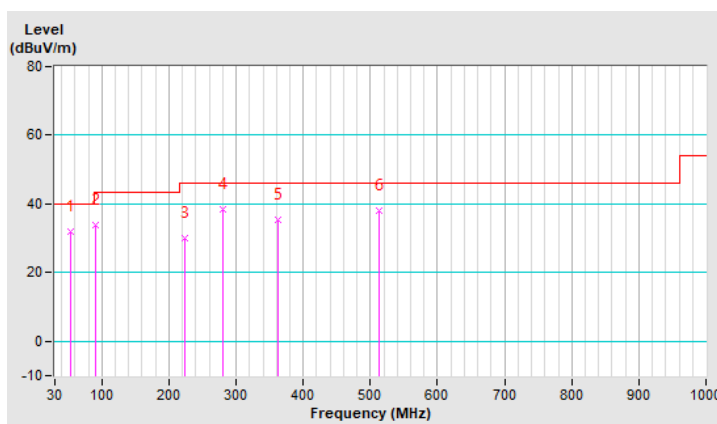
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	54.25	31.9 QP	40.0	-8.1	1.99 H	86	45.4	-13.5
2	91.11	33.8 QP	43.5	-9.7	1.99 H	92	52.9	-19.1
3	224.00	30.1 QP	46.0	-15.9	1.51 H	237	47.0	-16.9
4	280.26	38.5 QP	46.0	-7.5	1.99 H	82	51.9	-13.4
5	361.74	35.5 QP	46.0	-10.5	1.00 H	82	47.0	-11.5
6	513.06	38.0 QP	46.0	-8.0	1.99 H	87	45.9	-7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

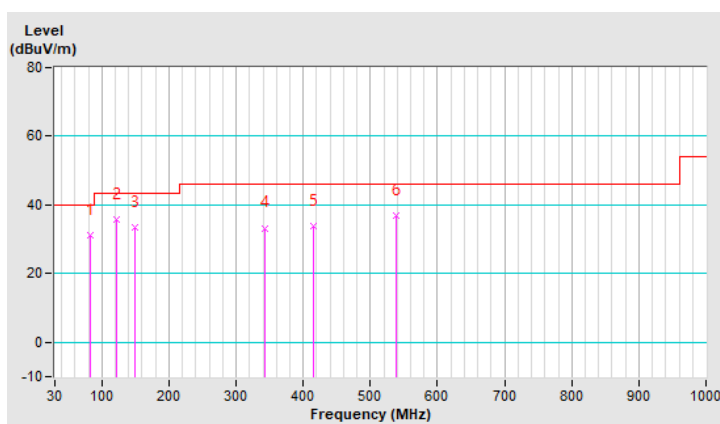


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	83.35	31.3 QP	40.0	-8.7	1.51 V	98	50.2	-18.9
2	121.18	35.7 QP	43.5	-7.8	1.51 V	18	51.0	-15.3
3	148.34	33.5 QP	43.5	-10.0	1.00 V	18	46.8	-13.3
4	343.31	33.3 QP	46.0	-12.7	1.51 V	87	45.2	-11.9
5	415.09	34.0 QP	46.0	-12.0	2.00 V	82	44.1	-10.1
6	539.25	36.8 QP	46.0	-9.2	1.00 V	82	44.4	-7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-431G_Radio 3 (Test Mode D)

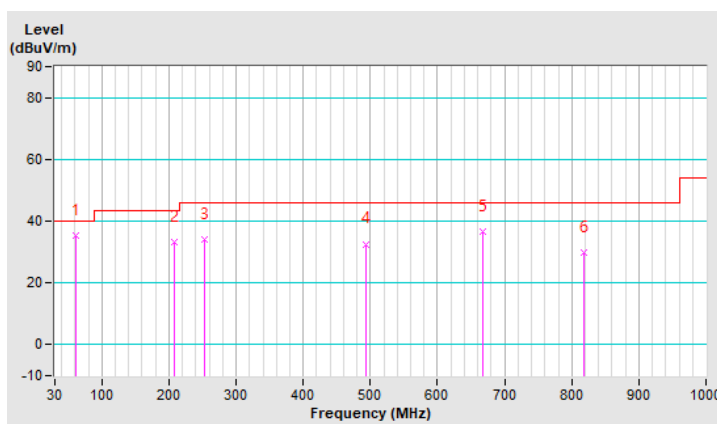
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.93	35.3 QP	40.0	-4.7	1.49 H	352	49.3	-14.0
2	207.13	33.2 QP	43.5	-10.3	1.49 H	306	50.0	-16.8
3	253.52	34.1 QP	46.0	-11.9	1.49 H	74	48.3	-14.2
4	493.91	32.6 QP	46.0	-13.4	1.49 H	295	40.5	-7.9
5	666.83	36.4 QP	46.0	-9.6	1.00 H	182	41.0	-4.6
6	818.65	29.7 QP	46.0	-16.3	1.49 H	2	31.8	-2.1

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

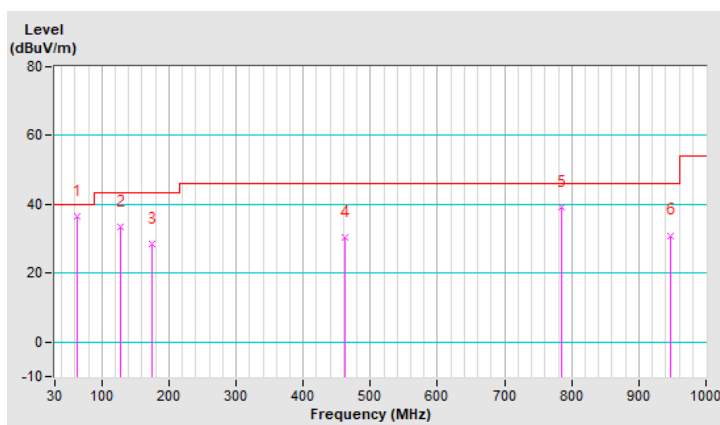


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	62.33	36.5 QP	40.0	-3.5	1.01 V	128	50.8	-14.3
2	127.00	33.3 QP	43.5	-10.2	2.00 V	220	48.1	-14.8
3	174.80	28.7 QP	43.5	-14.8	1.01 V	285	42.7	-14.0
4	461.58	30.6 QP	46.0	-15.4	1.01 V	323	39.0	-8.4
5	784.91	39.1 QP	46.0	-6.9	1.01 V	112	41.6	-2.5
6	947.99	31.0 QP	46.0	-15.0	1.50 V	111	31.5	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-431G_Scanning Radio (Test Mode E)

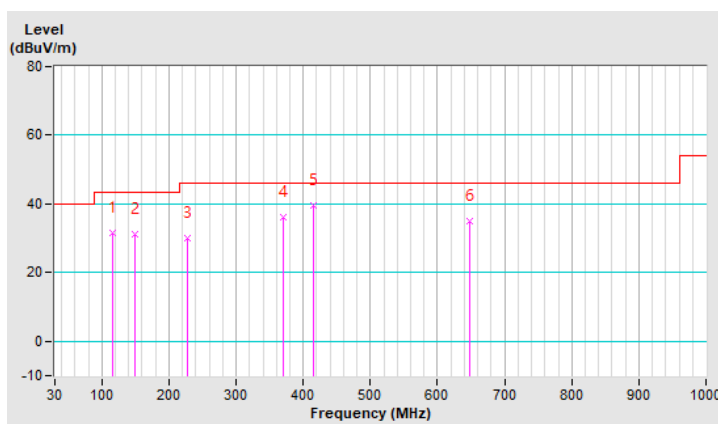
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	116.33	31.4 QP	43.5	-12.1	1.99 H	318	47.1	-15.7
2	148.34	31.2 QP	43.5	-12.3	1.51 H	230	44.5	-13.3
3	226.91	30.0 QP	46.0	-16.0	1.00 H	78	46.5	-16.5
4	370.47	36.1 QP	46.0	-9.9	1.51 H	90	47.2	-11.1
5	415.09	39.4 QP	46.0	-6.6	1.51 H	96	49.5	-10.1
6	647.89	34.9 QP	46.0	-11.1	1.51 H	93	40.0	-5.1

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

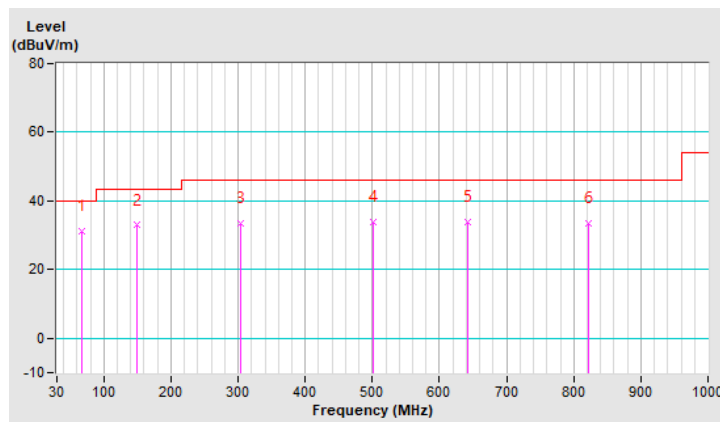


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	66.86	31.1 QP	40.0	-8.9	1.51 V	18	46.0	-14.9
2	148.34	32.9 QP	43.5	-10.6	1.99 V	18	46.2	-13.3
3	303.54	33.3 QP	46.0	-12.7	1.00 V	303	46.2	-12.9
4	500.45	33.8 QP	46.0	-12.2	1.51 V	4	42.1	-8.3
5	643.04	34.0 QP	46.0	-12.0	1.51 V	307	39.1	-5.1
6	821.52	33.4 QP	46.0	-12.6	1.99 V	223	35.8	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-431G_Scanning Radio (Test Mode F)

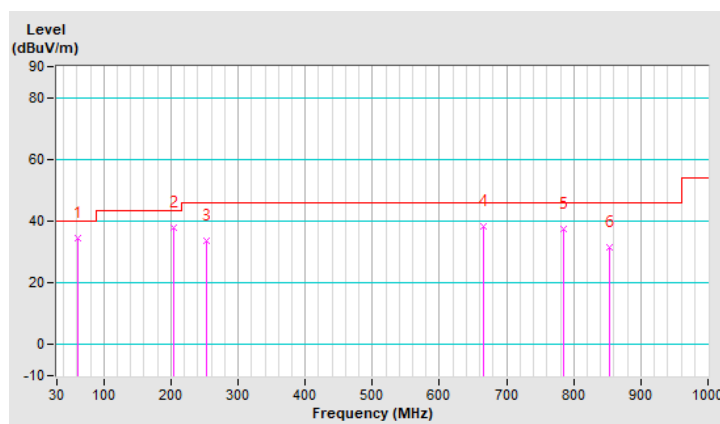
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.93	34.5 QP	40.0	-5.5	2.00 H	345	48.5	-14.0
2	204.32	37.8 QP	43.5	-5.7	1.00 H	301	54.6	-16.8
3	253.52	33.8 QP	46.0	-12.2	1.00 H	71	48.0	-14.2
4	665.42	38.2 QP	46.0	-7.8	1.00 H	182	42.8	-4.6
5	784.91	37.5 QP	46.0	-8.5	1.00 H	258	40.0	-2.5
6	853.80	31.7 QP	46.0	-14.3	1.49 H	128	33.4	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

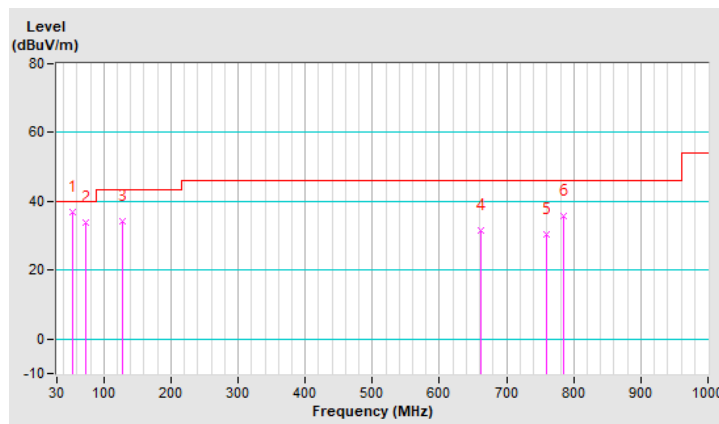


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	23°C, 72% RH
Tested By	Noah Chang		

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	52.49	36.8 QP	40.0	-3.2	1.50 V	341	50.0	-13.2
2	72.17	34.0 QP	40.0	-6.0	1.01 V	274	50.1	-16.1
3	127.00	34.2 QP	43.5	-9.3	1.01 V	176	49.0	-14.8
4	662.61	31.4 QP	46.0	-14.6	1.50 V	169	36.0	-4.6
5	759.61	30.5 QP	46.0	-15.5	1.50 V	121	33.6	-3.1
6	784.91	35.9 QP	46.0	-10.1	1.01 V	2	38.4	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-433G_Radio 3 (Test Mode G)

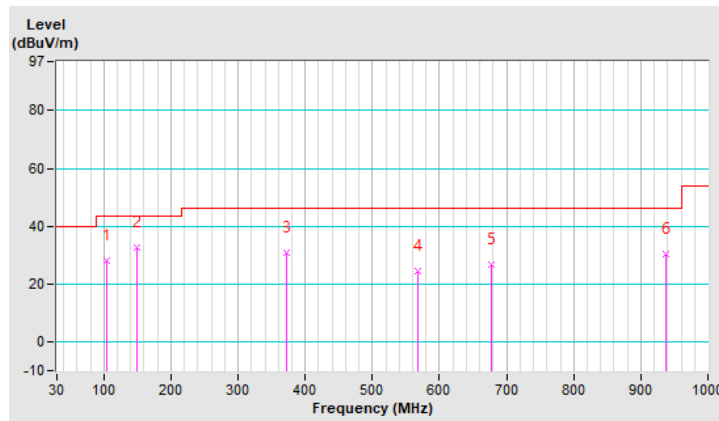
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 77% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.72	28.0 QP	43.5	-15.5	1.50 H	88	45.0	-17.0
2	148.34	32.5 QP	43.5	-11.0	1.50 H	108	45.7	-13.2
3	371.44	30.7 QP	46.0	-15.3	1.01 H	319	41.3	-10.6
4	568.35	24.5 QP	46.0	-21.5	1.01 H	250	31.1	-6.6
5	676.99	26.7 QP	46.0	-19.3	1.50 H	81	31.0	-4.3
6	936.95	30.4 QP	46.0	-15.6	1.01 H	326	31.0	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

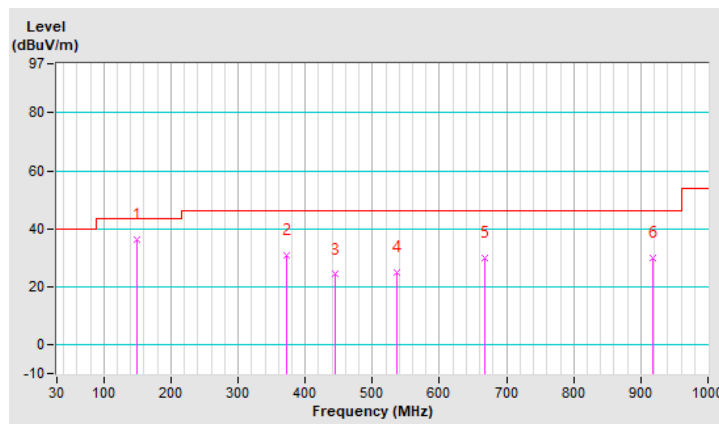


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 77% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	36.1 QP	43.5	-7.4	1.00 V	273	49.3	-13.2
2	371.44	30.7 QP	46.0	-15.3	1.00 V	91	41.3	-10.6
3	445.16	24.2 QP	46.0	-21.8	1.00 V	182	32.9	-8.7
4	536.34	25.0 QP	46.0	-21.0	1.00 V	286	32.3	-7.3
5	668.26	29.7 QP	46.0	-16.3	1.00 V	2	34.2	-4.5
6	918.52	29.8 QP	46.0	-16.2	1.49 V	162	30.8	-1.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-433G_Radio 3 (Test Mode H)

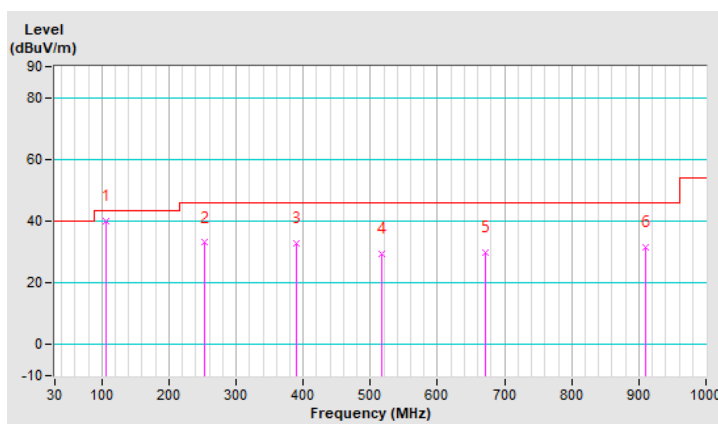
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	24°C, 65% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	106.63	39.8 QP	43.5	-3.7	1.99 H	95	56.4	-16.6
2	253.10	33.0 QP	46.0	-13.0	1.00 H	282	47.1	-14.1
3	388.90	32.7 QP	46.0	-13.3	1.50 H	171	42.9	-10.2
4	517.91	29.4 QP	46.0	-16.6	1.99 H	33	36.9	-7.5
5	672.14	29.9 QP	46.0	-16.1	1.99 H	225	34.4	-4.5
6	909.79	31.6 QP	46.0	-14.4	1.50 H	216	32.8	-1.2

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

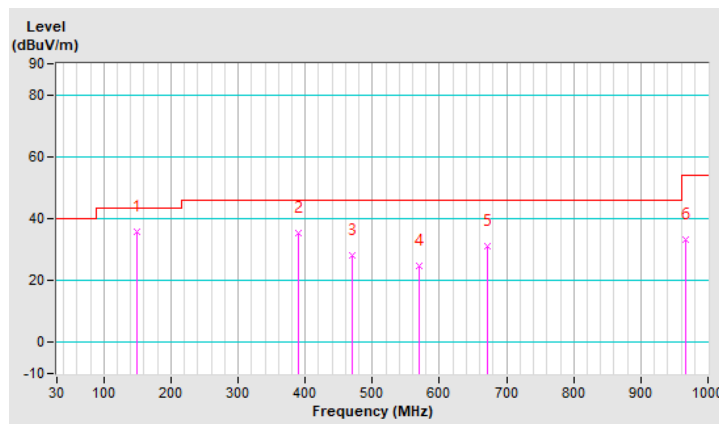


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	24°C, 65% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	35.7 QP	43.5	-7.8	1.00 V	154	48.9	-13.2
2	388.90	35.5 QP	46.0	-10.5	1.00 V	22	45.7	-10.2
3	469.41	28.0 QP	46.0	-18.0	1.00 V	184	36.2	-8.2
4	570.29	24.9 QP	46.0	-21.1	1.49 V	42	31.4	-6.5
5	672.14	31.1 QP	46.0	-14.9	1.49 V	178	35.6	-4.5
6	967.02	33.3 QP	54.0	-20.7	1.00 V	115	33.6	-0.3

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



FAP-433G_Scanning Radio (Test Mode I)

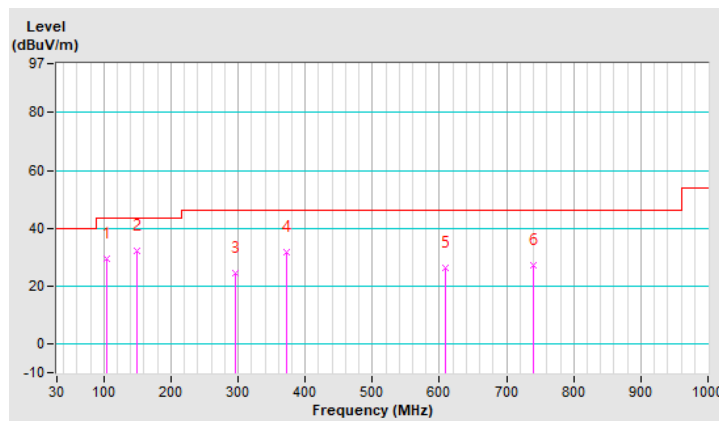
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 77% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.72	29.4 QP	43.5	-14.1	1.50 H	116	46.4	-17.0
2	148.34	32.0 QP	43.5	-11.5	1.50 H	100	45.2	-13.2
3	296.75	24.3 QP	46.0	-21.7	1.01 H	18	36.8	-12.5
4	371.44	31.5 QP	46.0	-14.5	1.01 H	192	42.1	-10.6
5	609.09	26.4 QP	46.0	-19.6	1.01 H	18	31.6	-5.2
6	739.07	27.1 QP	46.0	-18.9	1.50 H	133	30.5	-3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

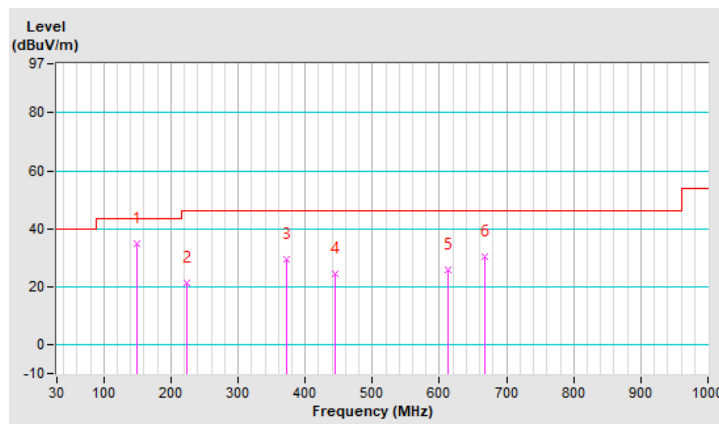


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 77% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	35.1 QP	43.5	-8.4	1.00 V	291	48.3	-13.2
2	223.03	21.2 QP	46.0	-24.8	1.00 V	300	37.6	-16.4
3	371.44	29.6 QP	46.0	-16.4	1.00 V	95	40.2	-10.6
4	445.16	24.6 QP	46.0	-21.4	1.00 V	158	33.3	-8.7
5	612.00	25.8 QP	46.0	-20.2	1.49 V	110	31.0	-5.2
6	668.26	30.4 QP	46.0	-15.6	1.00 V	2	34.9	-4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



FAP-433G_Scanning Radio (Test Mode J)

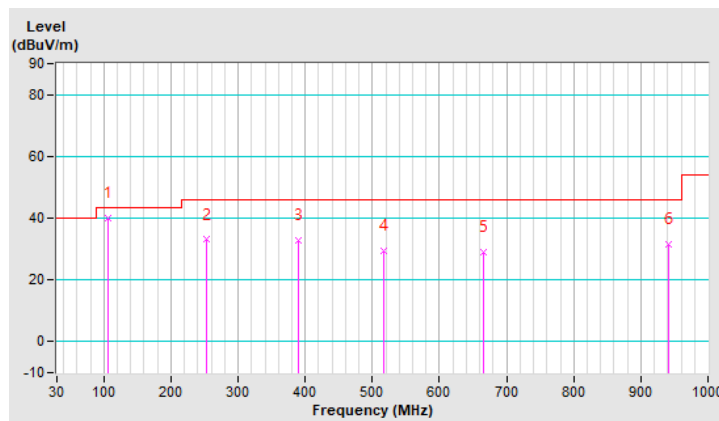
RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	24°C, 65% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	106.63	39.8 QP	43.5	-3.7	1.99 H	95	56.4	-16.6
2	253.10	33.0 QP	46.0	-13.0	1.00 H	282	47.1	-14.1
3	388.90	32.7 QP	46.0	-13.3	1.50 H	171	42.9	-10.2
4	517.91	29.4 QP	46.0	-16.6	1.99 H	33	36.9	-7.5
5	665.35	29.0 QP	46.0	-17.0	1.99 H	210	33.5	-4.5
6	940.83	31.6 QP	46.0	-14.4	1.00 H	70	32.2	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

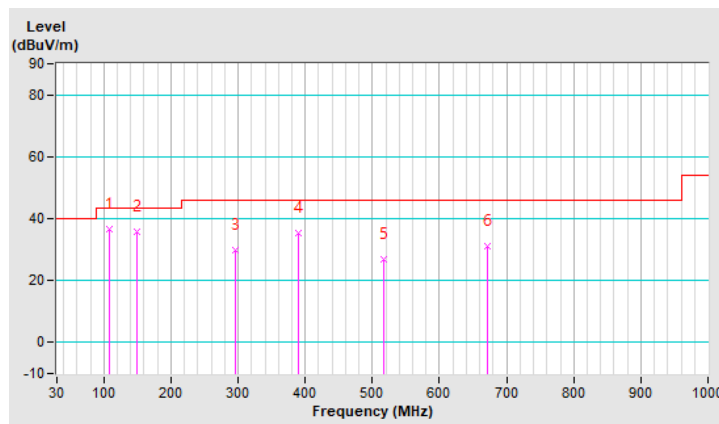


RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	55 Vdc	Environmental Conditions	24°C, 65% RH
Tested By	Randy Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	107.60	36.5 QP	43.5	-7.0	1.00 V	164	52.9	-16.4
2	148.34	35.7 QP	43.5	-7.8	1.00 V	154	48.9	-13.2
3	296.75	30.0 QP	46.0	-16.0	1.00 V	147	42.5	-12.5
4	388.90	35.5 QP	46.0	-10.5	1.00 V	22	45.7	-10.2
5	517.91	26.9 QP	46.0	-19.1	1.49 V	291	34.4	-7.5
6	672.14	31.1 QP	46.0	-14.9	1.49 V	178	35.6	-4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Unwanted Emissions above 1 GHz

FAP-431G_Radio 2 (Test Mode A)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5622.68	58.8 PK	68.2	-9.4	2.02 H	317	55.8	3.0
2	*5845.00	126.1 PK			2.02 H	317	84.2	41.9
3	*5845.00	118.5 AV			2.02 H	317	76.6	41.9
4	#5928.57	57.6 PK	88.2	-30.6	2.02 H	317	53.8	3.8
5	11690.00	58.0 PK	74.0	-16.0	1.77 H	141	48.7	9.3
6	11690.00	47.8 AV	54.0	-6.2	1.77 H	141	38.5	9.3

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	#5646.43	57.9 PK	68.2	-10.3	3.31 V	40	54.9	3.0
2	*5845.00	121.8 PK			3.31 V	40	79.9	41.9
3	*5845.00	114.5 AV			3.31 V	40	72.6	41.9
4	#5937.60	57.3 PK	88.2	-30.9	3.31 V	40	53.5	3.8
5	11690.00	57.4 PK	74.0	-16.6	1.44 V	61	48.1	9.3
6	11690.00	48.5 AV	54.0	-5.5	1.44 V	61	39.2	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5584.67	59.4 PK	68.2	-8.8	2.00 H	50	56.8	2.6
2	*5865.00	125.4 PK			2.00 H	50	83.4	42.0
3	*5865.00	117.9 AV			2.00 H	50	75.9	42.0
4	#5937.12	58.2 PK	88.2	-30.0	2.00 H	50	54.4	3.8
5	11730.00	57.5 PK	74.0	-16.5	2.27 H	66	48.2	9.3
6	11730.00	47.8 AV	54.0	-6.2	2.27 H	66	38.5	9.3

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	#5583.73	57.7 PK	68.2	-10.5	3.89 V	29	55.1	2.6
2	*5865.00	123.6 PK			3.89 V	29	81.6	42.0
3	*5865.00	115.9 AV			3.89 V	29	73.9	42.0
4	#5936.65	57.6 PK	88.2	-30.6	3.89 V	29	53.8	3.8
5	11730.00	57.4 PK	74.0	-16.6	2.01 V	58	48.1	9.3
6	11730.00	47.6 AV	54.0	-6.4	2.01 V	58	38.3	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5557.60	59.2 PK	68.2	-9.0	2.85 H	305	56.7	2.5
2	*5885.00	123.5 PK			2.85 H	305	81.6	41.9
3	*5885.00	116.1 AV			2.85 H	305	74.2	41.9
4	#5926.68	60.7 PK	88.2	-27.5	2.85 H	305	56.9	3.8
5	11770.00	56.9 PK	74.0	-17.1	2.26 H	74	47.8	9.1
6	11770.00	48.1 AV	54.0	-5.9	2.26 H	74	39.0	9.1

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	#5638.82	57.2 PK	68.2	-11.0	3.66 V	24	54.2	3.0
2	*5885.00	122.0 PK			3.66 V	24	80.1	41.9
3	*5885.00	113.8 AV			3.66 V	24	71.9	41.9
4	#5927.62	59.9 PK	88.2	-28.3	3.66 V	24	56.1	3.8
5	11730.00	56.9 PK	74.0	-17.1	1.99 V	55	47.6	9.3
6	11730.00	47.8 AV	54.0	-6.2	1.99 V	55	38.5	9.3

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 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5599.40	58.9 PK	68.2	-9.3	2.51 H	314	56.1	2.8
2	*5845.00	126.3 PK			2.51 H	314	84.4	41.9
3	*5845.00	118.4 AV			2.51 H	314	76.5	41.9
4	#5950.90	58.2 PK	88.2	-30.0	2.51 H	314	54.6	3.6
5	11690.00	57.8 PK	74.0	-16.2	2.26 H	84	48.5	9.3
6	11690.00	49.0 AV	54.0	-5.0	2.26 H	84	39.7	9.3

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	#5641.68	59.0 PK	68.2	-9.2	4.00 V	9	56.0	3.0
2	*5845.00	124.7 PK			4.00 V	9	82.8	41.9
3	*5845.00	114.7 AV			4.00 V	9	72.8	41.9
4	#5978.45	58.4 PK	88.2	-29.8	4.00 V	9	54.9	3.5
5	11690.00	57.6 PK	74.0	-16.4	1.87 V	61	48.3	9.3
6	11690.00	48.8 AV	54.0	-5.2	1.87 V	61	39.5	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5598.45	57.6 PK	68.2	-10.6	2.10 H	48	54.8	2.8
2	*5865.00	126.7 PK			2.10 H	48	84.7	42.0
3	*5865.00	117.4 AV			2.10 H	48	75.4	42.0
4	#5947.10	57.4 PK	88.2	-30.8	2.10 H	48	53.7	3.7
5	11730.00	57.6 PK	74.0	-16.4	2.25 H	67	48.3	9.3
6	11730.00	48.9 AV	54.0	-5.1	2.25 H	67	39.6	9.3

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	#5564.25	57.7 PK	68.2	-10.5	3.99 V	10	55.1	2.6
2	*5865.00	124.2 PK			3.99 V	10	82.2	42.0
3	*5865.00	115.7 AV			3.99 V	10	73.7	42.0
4	#5930.95	57.9 PK	88.2	-30.3	3.99 V	10	54.1	3.8
5	11730.00	57.3 PK	74.0	-16.7	1.89 V	58	48.0	9.3
6	11730.00	48.7 AV	54.0	-5.3	1.89 V	58	39.4	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5579.45	61.4 PK	68.2	-6.8	2.45 H	314	58.8	2.6
2	*5885.00	125.3 PK			2.45 H	314	83.4	41.9
3	*5885.00	116.9 AV			2.45 H	314	75.0	41.9
4	#5931.90	60.5 PK	88.2	-27.7	2.45 H	314	56.7	3.8
5	11770.00	57.7 PK	74.0	-16.3	2.14 H	65	48.6	9.1
6	11770.00	48.9 AV	54.0	-5.1	2.14 H	65	39.8	9.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	#5615.07	57.8 PK	68.2	-10.4	4.00 V	359	54.9	2.9
2	*5885.00	122.1 PK			4.00 V	359	80.2	41.9
3	*5885.00	113.5 AV			4.00 V	359	71.6	41.9
4	#5925.73	58.9 PK	88.2	-29.3	4.00 V	359	55.1	3.8
5	11770.00	57.4 PK	74.0	-16.6	1.85 V	45	48.3	9.1
6	11770.00	48.6 AV	54.0	-5.4	1.85 V	45	39.5	9.1

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5570.43	60.3 PK	68.2	-7.9	2.62 H	307	57.7	2.6
2	*5835.00	124.6 PK			2.62 H	307	82.7	41.9
3	*5835.00	115.8 AV			2.62 H	307	73.9	41.9
4	#5927.15	58.4 PK	88.2	-29.8	2.62 H	307	54.6	3.8
5	11670.00	57.7 PK	74.0	-16.3	2.25 H	80	48.4	9.3
6	11670.00	48.9 AV	54.0	-5.1	2.25 H	80	39.6	9.3

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	#5622.20	59.7 PK	68.2	-8.5	3.87 V	8	56.7	3.0
2	*5835.00	122.9 PK			3.87 V	8	81.0	41.9
3	*5835.00	112.8 AV			3.87 V	8	70.9	41.9
4	#5983.20	57.7 PK	88.2	-30.5	3.87 V	8	54.2	3.5
5	11670.00	57.5 PK	74.0	-16.5	1.87 V	51	48.2	9.3
6	11670.00	48.7 AV	54.0	-5.3	1.87 V	51	39.4	9.3

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5608.43	59.9 PK	68.2	-8.3	2.45 H	306	57.0	2.9
2	*5875.00	123.3 PK			2.45 H	306	81.4	41.9
3	*5875.00	114.0 AV			2.45 H	306	72.1	41.9
4	#5925.25	70.4 PK	88.2	-17.8	2.45 H	306	66.6	3.8
5	11750.00	58.0 PK	74.0	-16.0	2.24 H	79	48.7	9.3
6	11750.00	49.1 AV	54.0	-4.9	2.24 H	79	39.8	9.3

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	#5645.95	58.1 PK	68.2	-10.1	3.74 V	339	55.1	3.0
2	*5875.00	122.2 PK			3.74 V	339	80.3	41.9
3	*5875.00	112.9 AV			3.74 V	339	71.0	41.9
4	#5927.15	60.5 PK	88.2	-27.7	3.74 V	339	56.7	3.8
5	11750.00	57.8 PK	74.0	-16.2	1.79 V	49	48.5	9.3
6	11750.00	48.8 AV	54.0	-5.2	1.79 V	49	39.5	9.3

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 (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5642.15	67.4 PK	68.2	-0.8	2.50 H	306	64.4	3.0
2	*5855.00	120.1 PK			2.50 H	306	78.1	42.0
3	*5855.00	112.1 AV			2.50 H	306	70.1	42.0
4	#5926.20	72.4 PK	88.2	-15.8	2.50 H	306	68.6	3.8
5	11710.00	57.8 PK	74.0	-16.2	2.26 H	78	48.6	9.2
6	11710.00	48.9 AV	54.0	-5.1	2.26 H	78	39.7	9.2

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	#5642.15	64.2 PK	68.2	-4.0	3.77 V	339	61.2	3.0
2	*5855.00	118.5 PK			3.77 V	339	76.5	42.0
3	*5855.00	110.3 AV			3.77 V	339	68.3	42.0
4	#5926.20	71.3 PK	88.2	-16.9	3.77 V	339	67.5	3.8
5	11710.00	57.6 PK	74.0	-16.4	1.75 V	51	48.4	9.2
6	11710.00	48.7 AV	54.0	-5.3	1.75 V	51	39.5	9.2

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.

FAP-431G_Radio 3 (Test Mode C)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5603.20	55.9 PK	68.2	-12.3	1.89 H	66	53.1	2.8
2	*5845.00	118.7 PK			1.89 H	66	76.8	41.9
3	*5845.00	112.1 AV			1.89 H	66	70.2	41.9
4	#5928.10	56.0 PK	88.2	-32.2	1.89 H	66	52.2	3.8
5	11690.00	57.9 PK	74.0	-16.1	1.55 H	237	48.6	9.3
6	11690.00	47.6 AV	54.0	-6.4	1.55 H	237	38.3	9.3

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	#5631.23	55.8 PK	68.2	-12.4	1.43 V	356	52.8	3.0
2	*5845.00	112.9 PK			1.43 V	356	71.0	41.9
3	*5845.00	106.3 AV			1.43 V	356	64.4	41.9
4	#5925.25	56.6 PK	88.2	-31.6	1.43 V	356	52.8	3.8
5	11690.00	57.8 PK	74.0	-16.2	2.27 V	215	48.5	9.3
6	11690.00	47.5 AV	54.0	-6.5	2.27 V	215	38.2	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5571.37	56.7 PK	68.2	-11.5	1.89 H	65	54.1	2.6
2	*5865.00	119.4 PK			1.89 H	65	77.4	42.0
3	*5865.00	112.0 AV			1.89 H	65	70.0	42.0
4	#5951.85	57.5 PK	88.2	-30.7	1.89 H	65	53.9	3.6
5	11730.00	57.7 PK	74.0	-16.3	1.56 H	233	48.4	9.3
6	11730.00	47.5 AV	54.0	-6.5	1.56 H	233	38.2	9.3

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	#5572.80	56.9 PK	68.2	-11.3	1.44 V	356	54.3	2.6
2	*5865.00	113.8 PK			1.44 V	356	71.8	42.0
3	*5865.00	106.7 AV			1.44 V	356	64.7	42.0
4	#5931.90	58.3 PK	88.2	-29.9	1.44 V	356	54.5	3.8
5	11730.00	57.4 PK	74.0	-16.6	2.31 V	214	48.1	9.3
6	11730.00	47.3 AV	54.0	-6.7	2.31 V	214	38.0	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.57	57.2 PK	68.2	-11.0	1.69 H	63	54.2	3.0
2	*5885.00	119.1 PK			1.69 H	63	77.2	41.9
3	*5885.00	112.1 AV			1.69 H	63	70.2	41.9
4	#5928.10	72.0 PK	88.2	-16.2	1.69 H	63	68.2	3.8
5	11770.00	57.4 PK	74.0	-16.6	1.62 H	228	48.3	9.1
6	11770.00	47.7 AV	54.0	-6.3	1.62 H	228	38.6	9.1

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	#5607.00	56.4 PK	68.2	-11.8	1.43 V	355	53.5	2.9
2	*5885.00	113.6 PK			1.43 V	355	71.7	41.9
3	*5885.00	106.6 AV			1.43 V	355	64.7	41.9
4	#5925.73	68.4 PK	88.2	-19.8	1.43 V	355	64.6	3.8
5	11770.00	57.3 PK	74.0	-16.7	2.35 V	208	48.2	9.1
6	11770.00	47.5 AV	54.0	-6.5	2.35 V	208	38.4	9.1

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5641.20	56.5 PK	68.2	-11.7	2.18 H	64	53.5	3.0
2	*5845.00	120.4 PK			2.18 H	64	78.5	41.9
3	*5845.00	112.4 AV			2.18 H	64	70.5	41.9
4	#5933.32	58.5 PK	88.2	-29.7	2.18 H	64	54.7	3.8
5	11690.00	57.4 PK	74.0	-16.6	1.63 H	232	48.1	9.3
6	11690.00	47.5 AV	54.0	-6.5	1.63 H	232	38.2	9.3

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	#5622.68	56.7 PK	68.2	-11.5	1.45 V	355	53.7	3.0
2	*5845.00	114.9 PK			1.45 V	355	73.0	41.9
3	*5845.00	106.4 AV			1.45 V	355	64.5	41.9
4	#5974.65	57.7 PK	88.2	-30.5	1.45 V	355	54.2	3.5
5	11690.00	57.1 PK	74.0	-16.9	2.21 V	217	47.8	9.3
6	11690.00	47.3 AV	54.0	-6.7	2.21 V	217	38.0	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5581.82	56.2 PK	68.2	-12.0	2.00 H	62	53.6	2.6
2	*5865.00	120.2 PK			2.00 H	62	78.2	42.0
3	*5865.00	112.5 AV			2.00 H	62	70.5	42.0
4	#5934.27	64.2 PK	88.2	-24.0	2.00 H	62	60.4	3.8
5	11730.00	57.6 PK	74.0	-16.4	1.63 H	219	48.3	9.3
6	11730.00	47.5 AV	54.0	-6.5	1.63 H	219	38.2	9.3

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	#5643.10	56.8 PK	68.2	-11.4	1.45 V	356	53.8	3.0
2	*5865.00	113.8 PK			1.45 V	356	71.8	42.0
3	*5865.00	106.6 AV			1.45 V	356	64.6	42.0
4	#5927.62	60.7 PK	88.2	-27.5	1.45 V	356	56.9	3.8
5	11730.00	57.3 PK	74.0	-16.7	2.22 V	208	48.0	9.3
6	11730.00	47.3 AV	54.0	-6.7	2.22 V	208	38.0	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5584.20	56.8 PK	68.2	-11.4	2.15 H	61	54.2	2.6
2	*5885.00	120.2 PK			2.15 H	61	78.3	41.9
3	*5885.00	112.9 AV			2.15 H	61	71.0	41.9
4	#5934.27	73.4 PK	88.2	-14.8	2.15 H	61	69.6	3.8
5	11770.00	57.3 PK	74.0	-16.7	1.52 H	222	48.2	9.1
6	11770.00	47.2 AV	54.0	-6.8	1.52 H	222	38.1	9.1

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	#5619.35	56.5 PK	68.2	-11.7	1.35 V	356	53.6	2.9
2	*5885.00	114.2 PK			1.35 V	356	72.3	41.9
3	*5885.00	106.4 AV			1.35 V	356	64.5	41.9
4	#5926.68	70.6 PK	88.2	-17.6	1.35 V	356	66.8	3.8
5	11770.00	57.1 PK	74.0	-16.9	2.29 V	201	48.0	9.1
6	11770.00	47.0 AV	54.0	-7.0	2.29 V	201	37.9	9.1

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5642.62	57.4 PK	68.2	-10.8	2.08 H	62	54.4	3.0
2	*5835.00	118.7 PK			2.08 H	62	76.8	41.9
3	*5835.00	109.2 AV			2.08 H	62	67.3	41.9
4	#5934.27	68.7 PK	88.2	-19.5	2.08 H	62	64.9	3.8
5	11670.00	57.0 PK	74.0	-17.0	1.53 H	218	47.7	9.3
6	11670.00	47.2 AV	54.0	-6.8	1.53 H	218	37.9	9.3

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	#5588.00	57.6 PK	68.2	-10.6	1.35 V	359	54.8	2.8
2	*5835.00	112.4 PK			1.35 V	359	70.5	41.9
3	*5835.00	102.9 AV			1.35 V	359	61.0	41.9
4	#5925.73	64.2 PK	88.2	-24.0	1.35 V	359	60.4	3.8
5	11670.00	56.9 PK	74.0	-17.1	2.31 V	200	47.6	9.3
6	11670.00	47.1 AV	54.0	-6.9	2.31 V	200	37.8	9.3

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5579.45	56.7 PK	68.2	-11.5	2.02 H	61	54.1	2.6
2	*5875.00	117.3 PK			2.02 H	61	75.4	41.9
3	*5875.00	109.1 AV			2.02 H	61	67.2	41.9
4	#5925.25	86.7 PK	88.2	-1.5	2.02 H	61	82.9	3.8
5	11750.00	56.9 PK	74.0	-17.1	1.59 H	236	47.6	9.3
6	11750.00	46.8 AV	54.0	-7.2	1.59 H	236	37.5	9.3

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	#5579.45	56.7 PK	68.2	-11.5	1.20 V	357	54.1	2.6
2	*5875.00	111.4 PK			1.20 V	357	69.5	41.9
3	*5875.00	102.7 AV			1.20 V	357	60.8	41.9
4	#5925.25	84.7 PK	88.2	-3.5	1.20 V	357	80.9	3.8
5	11750.00	56.8 PK	74.0	-17.2	2.26 V	197	47.5	9.3
6	11750.00	46.7 AV	54.0	-7.3	2.26 V	197	37.4	9.3

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 (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5640.73	66.3 PK	68.2	-1.9	1.80 H	61	63.3	3.0
2	*5855.00	114.2 PK			1.80 H	61	72.2	42.0
3	*5855.00	106.3 AV			1.80 H	61	64.3	42.0
4	#5930.48	89.6 PK	108.2	-18.6	1.80 H	61	85.8	3.8
5	#5930.48	80.0 AV	88.2	-8.2	1.80 H	61	76.2	3.8
6	11710.00	56.8 PK	74.0	-17.2	1.63 H	234	47.6	9.2
7	11710.00	46.7 AV	54.0	-7.3	1.63 H	234	37.5	9.2

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	#5620.30	58.8 PK	68.2	-9.4	1.15 V	357	55.9	2.9
2	*5855.00	107.4 PK			1.15 V	357	65.4	42.0
3	*5855.00	100.0 AV			1.15 V	357	58.0	42.0
4	#5932.85	84.1 PK	108.2	-24.1	1.15 V	357	80.3	3.8
5	#5932.85	73.9 AV	88.2	-14.3	1.15 V	357	70.1	3.8
6	11710.00	56.6 PK	74.0	-17.4	2.35 V	205	47.4	9.2
7	11710.00	46.6 AV	54.0	-7.4	2.35 V	205	37.4	9.2

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 (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5641.20	67.2 PK	68.2	-1.0	1.91 H	62	64.2	3.0
2	*5815.00	108.8 PK			1.91 H	62	66.9	41.9
3	*5815.00	99.7 AV			1.91 H	62	57.8	41.9
4	#5932.85	70.4 PK	88.2	-17.8	1.91 H	62	66.6	3.8
5	11630.00	56.5 PK	74.0	-17.5	1.66 H	237	47.3	9.2
6	11630.00	46.4 AV	54.0	-7.6	1.66 H	237	37.2	9.2

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	#5642.62	64.3 PK	68.2	-3.9	1.25 V	355	61.3	3.0
2	*5815.00	103.6 PK			1.25 V	355	61.7	41.9
3	*5815.00	94.6 AV			1.25 V	355	52.7	41.9
4	#5935.70	72.9 PK	88.2	-15.3	1.25 V	355	69.1	3.8
5	11630.00	56.2 PK	74.0	-17.8	2.17 V	201	47.0	9.2
6	11630.00	46.2 AV	54.0	-7.8	2.17 V	201	37.0	9.2

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.

FAP-431G_Scanning Radio (Test Mode E)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5568.05	55.7 PK	68.2	-12.5	1.73 H	63	53.1	2.6
2	*5845.00	120.2 PK			1.73 H	63	78.3	41.9
3	*5845.00	112.8 AV			1.73 H	63	70.9	41.9
4	#5930.95	64.9 PK	88.2	-23.3	1.73 H	63	61.1	3.8
5	11690.00	61.3 PK	74.0	-12.7	1.47 H	39	52.0	9.3
6	11690.00	51.4 AV	54.0	-2.6	1.47 H	39	42.1	9.3

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	#5645.00	55.8 PK	68.2	-12.4	1.80 V	321	52.8	3.0
2	*5845.00	115.4 PK			1.80 V	321	73.5	41.9
3	*5845.00	108.2 AV			1.80 V	321	66.3	41.9
4	#5937.12	62.6 PK	88.2	-25.6	1.80 V	321	58.8	3.8
5	11690.00	58.2 PK	74.0	-15.8	2.05 V	68	48.9	9.3
6	11690.00	48.2 AV	54.0	-5.8	2.05 V	68	38.9	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5642.62	56.5 PK	68.2	-11.7	1.66 H	68	53.5	3.0
2	*5865.00	120.4 PK			1.66 H	68	78.4	42.0
3	*5865.00	113.0 AV			1.66 H	68	71.0	42.0
4	#5936.65	67.8 PK	88.2	-20.4	1.66 H	68	64.0	3.8
5	11730.00	63.1 PK	74.0	-10.9	1.55 H	41	53.8	9.3
6	11730.00	51.9 AV	54.0	-2.1	1.55 H	41	42.6	9.3

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	#5600.82	56.6 PK	68.2	-11.6	1.72 V	325	53.8	2.8
2	*5865.00	117.5 PK			1.72 V	325	75.5	42.0
3	*5865.00	109.1 AV			1.72 V	325	67.1	42.0
4	#5927.15	70.4 PK	88.2	-17.8	1.72 V	325	66.6	3.8
5	11730.00	57.9 PK	74.0	-16.1	2.17 V	59	48.6	9.3
6	11730.00	47.8 AV	54.0	-6.2	2.17 V	59	38.5	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5630.75	55.4 PK	68.2	-12.8	1.79 H	64	52.4	3.0
2	*5885.00	120.4 PK			1.79 H	64	78.5	41.9
3	*5885.00	113.5 AV			1.79 H	64	71.6	41.9
4	#5927.15	77.6 PK	88.2	-10.6	1.79 H	64	73.8	3.8
5	11770.00	60.9 PK	74.0	-13.1	1.45 H	23	51.8	9.1
6	11770.00	49.7 AV	54.0	-4.3	1.45 H	23	40.6	9.1

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	#5606.20	56.1 PK	68.2	-12.1	1.92 V	325	53.3	2.8
2	*5885.00	116.0 PK			1.92 V	325	74.1	41.9
3	*5885.00	108.7 AV			1.92 V	325	66.8	41.9
4	#5927.15	80.3 PK	88.2	-7.9	1.92 V	325	76.5	3.8
5	11770.00	58.0 PK	74.0	-16.0	2.28 V	62	48.9	9.1
6	11770.00	47.8 AV	54.0	-6.2	2.28 V	62	38.7	9.1

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5628.37	56.7 PK	68.2	-11.5	1.72 H	61	53.7	3.0
2	*5845.00	120.5 PK			1.72 H	61	78.6	41.9
3	*5845.00	113.4 AV			1.72 H	61	71.5	41.9
4	#5928.10	67.2 PK	88.2	-21.0	1.72 H	61	63.4	3.8
5	11690.00	57.8 PK	74.0	-16.2	1.55 H	32	48.5	9.3
6	11690.00	47.9 AV	54.0	-6.1	1.55 H	32	38.6	9.3

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	#5580.87	57.4 PK	68.2	-10.8	1.93 V	7	54.8	2.6
2	*5845.00	115.3 PK			1.93 V	7	73.4	41.9
3	*5845.00	107.5 AV			1.93 V	7	65.6	41.9
4	#5930.00	63.6 PK	88.2	-24.6	1.93 V	7	59.8	3.8
5	11690.00	58.1 PK	74.0	-15.9	2.34 V	49	48.8	9.3
6	11690.00	47.9 AV	54.0	-6.1	2.34 V	49	38.6	9.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5625.52	55.8 PK	68.2	-12.4	1.74 H	62	52.8	3.0
2	*5865.00	121.0 PK			1.74 H	62	79.0	42.0
3	*5865.00	113.4 AV			1.74 H	62	71.4	42.0
4	#5928.57	75.5 PK	88.2	-12.7	1.74 H	62	71.7	3.8
5	11730.00	57.9 PK	74.0	-16.1	1.45 H	38	48.6	9.3
6	11730.00	48.4 AV	54.0	-5.6	1.45 H	38	39.1	9.3

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	#5620.77	56.9 PK	68.2	-11.3	1.93 V	328	54.0	2.9
2	*5865.00	116.0 PK			1.93 V	328	74.0	42.0
3	*5865.00	108.3 AV			1.93 V	328	66.3	42.0
4	#5930.00	69.8 PK	88.2	-18.4	1.93 V	328	66.0	3.8
5	11730.00	57.9 PK	74.0	-16.1	2.41 V	53	48.6	9.3
6	11730.00	47.7 AV	54.0	-6.3	2.41 V	53	38.4	9.3

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5578.98	56.0 PK	68.2	-12.2	1.78 H	59	53.4	2.6
2	*5885.00	121.7 PK			1.78 H	59	79.8	41.9
3	*5885.00	113.7 AV			1.78 H	59	71.8	41.9
4	#5921.45	89.6 PK	90.8	-1.2	1.78 H	59	85.9	3.7
5	11770.00	57.4 PK	74.0	-16.6	1.51 H	48	48.3	9.1
6	11770.00	47.6 AV	54.0	-6.4	1.51 H	48	38.5	9.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.60	55.3 PK	68.2	-12.9	2.54 V	5	52.3	3.0
2	*5885.00	116.1 PK			2.54 V	5	74.2	41.9
3	*5885.00	108.9 AV			2.54 V	5	67.0	41.9
4	#5930.48	77.8 PK	88.2	-10.4	2.54 V	5	74.0	3.8
5	11770.00	57.8 PK	74.0	-16.2	2.32 V	60	48.7	9.1
6	11770.00	47.6 AV	54.0	-6.4	2.32 V	60	38.5	9.1

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5608.43	62.4 PK	68.2	-5.8	1.61 H	63	59.5	2.9
2	*5835.00	118.5 PK			1.61 H	63	76.6	41.9
3	*5835.00	110.6 AV			1.61 H	63	68.7	41.9
4	#5929.52	76.2 PK	88.2	-12.0	1.61 H	63	72.4	3.8
5	11670.00	57.4 PK	74.0	-16.6	1.44 H	39	48.1	9.3
6	11670.00	46.9 AV	54.0	-7.1	1.44 H	39	37.6	9.3

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.45	55.9 PK	68.2	-12.3	1.21 V	357	53.0	2.9
2	*5835.00	113.9 PK			1.21 V	357	72.0	41.9
3	*5835.00	105.6 AV			1.21 V	357	63.7	41.9
4	#5925.25	67.7 PK	88.2	-20.5	1.21 V	357	63.9	3.8
5	11670.00	57.4 PK	74.0	-16.6	2.24 V	59	48.1	9.3
6	11670.00	47.5 AV	54.0	-6.5	2.24 V	59	38.2	9.3

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	57.8 PK	68.2	-10.4	1.78 H	61	54.8	3.0
2	*5875.00	119.2 PK			1.78 H	61	77.3	41.9
3	*5875.00	110.4 AV			1.78 H	61	68.5	41.9
4	#5926.68	88.1 PK	108.2	-20.1	1.78 H	61	84.3	3.8
5	#5926.68	79.7 AV	88.2	-8.5	1.78 H	61	75.9	3.8
6	11750.00	57.4 PK	74.0	-16.6	1.44 H	49	48.1	9.3
7	11750.00	47.5 AV	54.0	-6.5	1.44 H	49	38.2	9.3

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	#5630.75	57.1 PK	68.2	-11.1	1.04 V	358	54.1	3.0
2	*5875.00	114.3 PK			1.04 V	358	72.4	41.9
3	*5875.00	106.1 AV			1.04 V	358	64.2	41.9
4	#5933.80	85.8 PK	108.2	-22.4	1.04 V	358	82.0	3.8
5	#5933.80	75.9 AV	88.2	-12.3	1.04 V	358	72.1	3.8
6	11750.00	57.3 PK	74.0	-16.7	2.36 V	47	48.0	9.3
7	11750.00	47.3 AV	54.0	-6.7	2.36 V	47	38.0	9.3

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 (HE80)	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.43	66.8 PK	68.2	-1.4	1.59 H	65	63.8	3.0
2	*5855.00	116.6 PK			1.59 H	65	74.6	42.0
3	*5855.00	106.2 AV			1.59 H	65	64.2	42.0
4	#5926.68	91.4 PK	108.2	-16.8	1.59 H	65	87.6	3.8
5	#5926.68	82.8 AV	88.2	-5.4	1.59 H	65	79.0	3.8
6	11710.00	57.0 PK	74.0	-17.0	1.46 H	36	47.8	9.2
7	11710.00	46.8 AV	54.0	-7.2	1.46 H	36	37.6	9.2

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	#5640.25	58.8 PK	68.2	-9.4	1.00 V	353	55.8	3.0
2	*5855.00	111.0 PK			1.00 V	353	69.0	42.0
3	*5855.00	101.1 AV			1.00 V	353	59.1	42.0
4	#5930.95	82.7 PK	108.2	-25.5	1.00 V	353	78.9	3.8
5	#5930.95	74.6 AV	88.2	-13.6	1.00 V	353	70.8	3.8
6	11710.00	57.0 PK	74.0	-17.0	2.31 V	65	47.8	9.2
7	11710.00	47.1 AV	54.0	-6.9	2.31 V	65	37.9	9.2

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 (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Wade Huang		

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	#5648.32	67.5 PK	68.2	-0.7	1.60 H	65	64.5	3.0
2	*5815.00	108.7 PK			1.60 H	65	66.8	41.9
3	*5815.00	98.4 AV			1.60 H	65	56.5	41.9
4	#5929.52	69.5 PK	88.2	-18.7	1.60 H	65	65.7	3.8
5	11630.00	56.4 PK	74.0	-17.6	1.56 H	29	47.2	9.2
6	11630.00	46.7 AV	54.0	-7.3	1.56 H	29	37.5	9.2

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	#5629.80	58.9 PK	68.2	-9.3	1.00 V	354	55.9	3.0
2	*5815.00	103.4 PK			1.00 V	354	61.5	41.9
3	*5815.00	93.3 AV			1.00 V	354	51.4	41.9
4	#5930.95	61.1 PK	88.2	-27.1	1.00 V	354	57.3	3.8
5	11630.00	56.9 PK	74.0	-17.1	2.24 V	47	47.7	9.2
6	11630.00	47.2 AV	54.0	-6.8	2.24 V	47	38.0	9.2

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.

FAP-433G_Radio 3 (Test Mode G)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5615.07	56.6 PK	68.2	-11.6	2.45 H	244	53.4	3.2
2	*5845.00	109.1 PK			2.45 H	244	67.5	41.6
3	*5845.00	100.5 AV			2.45 H	244	58.9	41.6
4	#5928.10	58.5 PK	88.2	-29.7	2.45 H	244	54.5	4.0
5	11690.00	57.2 PK	74.0	-16.8	2.55 H	210	48.3	8.9
6	11690.00	47.3 AV	54.0	-6.7	2.55 H	210	38.4	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.00	59.2 PK	68.2	-9.0	2.22 V	276	55.8	3.4
2	*5845.00	124.8 PK			2.22 V	276	83.2	41.6
3	*5845.00	116.0 AV			2.22 V	276	74.4	41.6
4	#5930.48	65.5 PK	88.2	-22.7	2.22 V	276	61.5	4.0
5	11690.00	57.2 PK	74.0	-16.8	2.21 V	241	48.3	8.9
6	11690.00	47.4 AV	54.0	-6.6	2.21 V	241	38.5	8.9

Remarks:

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



RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.87	56.9 PK	68.2	-11.3	2.21 H	266	53.6	3.3
2	*5865.00	107.7 PK			2.21 H	266	66.1	41.6
3	*5865.00	99.0 AV			2.21 H	266	57.4	41.6
4	#5990.32	57.5 PK	88.2	-30.7	2.21 H	266	53.1	4.4
5	11730.00	57.4 PK	74.0	-16.6	2.25 H	214	48.6	8.8
6	11730.00	47.4 AV	54.0	-6.6	2.25 H	214	38.6	8.8

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	#5612.23	59.3 PK	68.2	-8.9	2.20 V	73	56.1	3.2
2	*5865.00	124.8 PK			2.20 V	73	83.2	41.6
3	*5865.00	116.1 AV			2.20 V	73	74.5	41.6
4	#5938.07	74.9 PK	88.2	-13.3	2.20 V	73	71.0	3.9
5	11730.00	57.4 PK	74.0	-16.6	2.14 V	24	48.6	8.8
6	11730.00	47.3 AV	54.0	-6.7	2.14 V	24	38.5	8.8

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5559.02	57.5 PK	68.2	-10.7	2.41 H	266	54.6	2.9
2	*5885.00	107.7 PK			2.41 H	266	66.2	41.5
3	*5885.00	98.5 AV			2.41 H	266	57.0	41.5
4	#5929.05	65.3 PK	88.2	-22.9	2.41 H	266	61.3	4.0
5	11770.00	57.3 PK	74.0	-16.7	2.21 H	252	48.7	8.6
6	11770.00	46.9 AV	54.0	-7.1	2.21 H	252	38.3	8.6

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	#5641.68	58.1 PK	68.2	-10.1	2.17 V	276	54.7	3.4
2	*5885.00	124.7 PK			2.17 V	276	83.2	41.5
3	*5885.00	116.4 AV			2.17 V	276	74.9	41.5
4	#5929.05	80.6 PK	88.2	-7.6	2.17 V	276	76.6	4.0
5	11770.00	57.3 PK	74.0	-16.7	2.22 V	252	48.7	8.6
6	11770.00	47.1 AV	54.0	-6.9	2.22 V	252	38.5	8.6

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 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5589.90	57.0 PK	68.2	-11.2	2.14 H	268	53.9	3.1
2	*5845.00	108.1 PK			2.14 H	268	66.5	41.6
3	*5845.00	98.7 AV			2.14 H	268	57.1	41.6
4	#5930.48	60.4 PK	88.2	-27.8	2.14 H	268	56.4	4.0
5	11690.00	57.5 PK	74.0	-16.5	2.14 H	223	48.6	8.9
6	11690.00	47.4 AV	54.0	-6.6	2.14 H	223	38.5	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5574.23	59.0 PK	68.2	-9.2	1.99 V	292	56.1	2.9
2	*5845.00	124.0 PK			1.99 V	292	82.4	41.6
3	*5845.00	115.0 AV			1.99 V	292	73.4	41.6
4	#5931.90	73.4 PK	88.2	-14.8	1.99 V	292	69.4	4.0
5	11690.00	57.5 PK	74.0	-16.5	1.52 V	241	48.6	8.9
6	11690.00	47.4 AV	54.0	-6.6	1.52 V	241	38.5	8.9

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5645.95	56.8 PK	68.2	-11.4	1.00 H	297	53.4	3.4
2	*5865.00	108.2 PK			1.00 H	297	66.6	41.6
3	*5865.00	99.3 AV			1.00 H	297	57.7	41.6
4	#5931.90	60.5 PK	88.2	-27.7	1.00 H	297	56.5	4.0
5	11730.00	57.1 PK	74.0	-16.9	1.22 H	271	48.3	8.8
6	11730.00	47.0 AV	54.0	-7.0	1.22 H	271	38.2	8.8

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	#5619.82	57.9 PK	68.2	-10.3	2.00 V	294	54.6	3.3
2	*5865.00	123.4 PK			2.00 V	294	81.8	41.6
3	*5865.00	114.1 AV			2.00 V	294	72.5	41.6
4	#5932.37	74.2 PK	88.2	-14.0	2.00 V	294	70.2	4.0
5	11730.00	57.1 PK	74.0	-16.9	2.14 V	282	48.3	8.8
6	11730.00	47.3 AV	54.0	-6.7	2.14 V	282	38.5	8.8

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.70	57.3 PK	68.2	-10.9	2.39 H	243	54.0	3.3
2	*5885.00	110.1 PK			2.39 H	243	68.6	41.5
3	*5885.00	101.6 AV			2.39 H	243	60.1	41.5
4	#5925.73	70.7 PK	88.2	-17.5	2.39 H	243	66.8	3.9
5	11770.00	57.3 PK	74.0	-16.7	2.14 H	252	48.7	8.6
6	11770.00	47.1 AV	54.0	-6.9	2.14 H	252	38.5	8.6

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	#5578.02	57.8 PK	68.2	-10.4	2.05 V	292	54.9	2.9
2	*5885.00	124.1 PK			2.05 V	292	82.6	41.5
3	*5885.00	115.4 AV			2.05 V	292	73.9	41.5
4	#5931.90	84.0 PK	88.2	-4.2	2.05 V	292	80.0	4.0
5	11770.00	57.0 PK	74.0	-17.0	2.11 V	252	48.4	8.6
6	11770.00	47.3 AV	54.0	-6.7	2.11 V	252	38.7	8.6

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.73	57.1 PK	68.2	-11.1	1.49 H	100	54.0	3.1
2	*5835.00	106.2 PK			1.49 H	100	64.6	41.6
3	*5835.00	96.5 AV			1.49 H	100	54.9	41.6
4	#5932.85	60.5 PK	88.2	-27.7	1.49 H	100	56.5	4.0
5	11670.00	57.6 PK	74.0	-16.4	1.52 H	133	48.7	8.9
6	11670.00	47.5 AV	54.0	-6.5	1.52 H	133	38.6	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.27	62.3 PK	68.2	-5.9	2.13 V	110	58.8	3.5
2	*5835.00	121.6 PK			2.13 V	110	80.0	41.6
3	*5835.00	113.1 AV			2.13 V	110	71.5	41.6
4	#5929.05	76.0 PK	88.2	-12.2	2.13 V	110	72.0	4.0
5	11670.00	57.6 PK	74.0	-16.4	2.52 V	123	48.7	8.9
6	11670.00	47.5 AV	54.0	-6.5	2.52 V	123	38.6	8.9

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5573.27	57.5 PK	68.2	-10.7	2.13 H	267	54.6	2.9
2	*5875.00	103.2 PK			2.13 H	267	61.7	41.5
3	*5875.00	95.9 AV			2.13 H	267	54.4	41.5
4	#5936.18	69.6 PK	88.2	-18.6	2.13 H	267	65.6	4.0
5	11750.00	57.2 PK	74.0	-16.8	2.22 H	214	48.5	8.7
6	11750.00	47.4 AV	54.0	-6.6	2.22 H	214	38.7	8.7

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	#5623.62	60.1 PK	68.2	-8.1	2.12 V	301	56.8	3.3
2	*5875.00	119.8 PK			2.12 V	301	78.3	41.5
3	*5875.00	111.0 AV			2.12 V	301	69.5	41.5
4	#5932.37	84.9 PK	88.2	-3.3	2.12 V	301	80.9	4.0
5	11750.00	57.3 PK	74.0	-16.7	2.22 V	310	48.6	8.7
6	11750.00	47.3 AV	54.0	-6.7	2.22 V	310	38.6	8.7

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 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5642.15	56.6 PK	68.2	-11.6	2.09 H	266	53.2	3.4
2	*5855.00	100.4 PK			2.09 H	266	58.8	41.6
3	*5855.00	91.4 AV			2.09 H	266	49.8	41.6
4	#5935.70	68.8 PK	88.2	-19.4	2.09 H	266	64.8	4.0
5	11710.00	57.1 PK	74.0	-16.9	2.41 H	255	48.3	8.8
6	11710.00	47.0 AV	54.0	-7.0	2.41 H	255	38.2	8.8

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	#5648.80	64.0 PK	68.2	-4.2	2.11 V	300	60.5	3.5
2	*5855.00	114.7 PK			2.11 V	300	73.1	41.6
3	*5855.00	106.2 AV			2.11 V	300	64.6	41.6
4	#5931.90	88.0 PK	88.2	-0.2	2.11 V	300	84.0	4.0
5	11710.00	57.1 PK	74.0	-16.9	2.33 V	214	48.3	8.8
6	11710.00	47.4 AV	54.0	-6.6	2.33 V	214	38.6	8.8

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 (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5619.82	57.8 PK	68.2	-10.4	1.51 H	268	54.5	3.3
2	*5815.00	94.6 PK			1.51 H	268	53.0	41.6
3	*5815.00	85.6 AV			1.51 H	268	44.0	41.6
4	#5963.73	59.2 PK	88.2	-29.0	1.51 H	268	55.0	4.2
5	11630.00	57.7 PK	74.0	-16.3	1.22 H	223	48.6	9.1
6	11630.00	47.6 AV	54.0	-6.4	1.22 H	223	38.5	9.1

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	#5631.23	66.9 PK	68.2	-1.3	2.13 V	281	63.6	3.3
2	*5815.00	111.0 PK			2.13 V	281	69.4	41.6
3	*5815.00	102.2 AV			2.13 V	281	60.6	41.6
4	#5938.55	75.4 PK	88.2	-12.8	2.13 V	281	71.5	3.9
5	11630.00	57.7 PK	74.0	-16.3	2.13 V	283	48.6	9.1
6	11630.00	47.6 AV	54.0	-6.4	2.13 V	283	38.5	9.1

Remarks:

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

FAP-433G_Scanning Radio (Test Mode I)

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5633.60	57.3 PK	68.2	-10.9	1.56 H	249	53.9	3.4
2	*5845.00	105.3 PK			1.56 H	249	63.7	41.6
3	*5845.00	96.6 AV			1.56 H	249	55.0	41.6
4	#5935.23	58.3 PK	88.2	-29.9	1.56 H	349	54.3	4.0
5	11690.00	57.3 PK	74.0	-16.7	1.36 H	222	48.4	8.9
6	11690.00	47.4 AV	54.0	-6.6	1.36 H	222	38.5	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5604.15	59.0 PK	68.2	-9.2	2.64 V	276	55.8	3.2
2	*5845.00	120.7 PK			2.64 V	276	79.1	41.6
3	*5845.00	113.1 AV			2.64 V	276	71.5	41.6
4	#5932.37	67.8 PK	88.2	-20.4	2.64 V	276	63.8	4.0
5	11690.00	57.4 PK	74.0	-16.6	2.41 V	223	48.5	8.9
6	11690.00	47.5 AV	54.0	-6.5	2.41 V	223	38.6	8.9

Remarks:

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



RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5641.68	56.7 PK	68.2	-11.5	1.59 H	249	53.3	3.4
2	*5865.00	106.2 PK			1.59 H	249	64.6	41.6
3	*5865.00	96.8 AV			1.59 H	249	55.2	41.6
4	#5952.32	58.0 PK	88.2	-30.2	1.59 H	249	54.0	4.0
5	11730.00	57.4 PK	74.0	-16.6	1.64 H	252	48.6	8.8
6	11730.00	47.3 AV	54.0	-6.7	1.64 H	252	38.5	8.8

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	#5564.25	58.9 PK	68.2	-9.3	2.36 V	222	56.0	2.9
2	*5865.00	120.1 PK			2.36 V	222	78.5	41.6
3	*5865.00	111.5 AV			2.36 V	222	69.9	41.6
4	#5940.45	71.4 PK	88.2	-16.8	2.36 V	222	67.5	3.9
5	11730.00	57.4 PK	74.0	-16.6	2.41 V	214	48.6	8.8
6	11730.00	47.2 AV	54.0	-6.8	2.41 V	214	38.4	8.8

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5604.15	57.2 PK	68.2	-11.0	1.85 H	290	54.0	3.2
2	*5885.00	104.8 PK			1.85 H	290	63.3	41.5
3	*5885.00	96.0 AV			1.85 H	290	54.5	41.5
4	#5946.62	60.0 PK	88.2	-28.2	1.85 H	290	56.0	4.0
5	11770.00	57.0 PK	74.0	-17.0	1.66 H	225	48.4	8.6
6	11770.00	47.0 AV	54.0	-7.0	1.66 H	225	38.4	8.6

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	#5620.30	59.1 PK	68.2	-9.1	2.30 V	244	55.8	3.3
2	*5885.00	121.3 PK			2.30 V	244	79.8	41.5
3	*5885.00	113.4 AV			2.30 V	244	71.9	41.5
4	#5927.15	81.0 PK	88.2	-7.2	2.30 V	244	77.1	3.9
5	11770.00	57.0 PK	74.0	-17.0	2.14 V	252	48.4	8.6
6	11770.00	47.0 AV	54.0	-7.0	2.14 V	252	38.4	8.6

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 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5576.60	57.5 PK	68.2	-10.7	1.13 H	114	54.6	2.9
2	*5845.00	107.4 PK			1.13 H	114	65.8	41.6
3	*5845.00	98.2 AV			1.13 H	114	56.6	41.6
4	#5941.40	57.9 PK	88.2	-30.3	1.13 H	114	54.0	3.9
5	11690.00	57.3 PK	74.0	-16.7	1.23 H	152	48.4	8.9
6	11690.00	47.4 AV	54.0	-6.6	1.23 H	152	38.5	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.35	58.0 PK	68.2	-10.2	2.32 V	205	54.6	3.4
2	*5845.00	120.2 PK			2.32 V	205	78.6	41.6
3	*5845.00	111.3 AV			2.32 V	205	69.7	41.6
4	#5926.68	66.9 PK	88.2	-21.3	2.32 V	205	63.0	3.9
5	11690.00	57.4 PK	74.0	-16.6	2.22 V	214	48.5	8.9
6	11690.00	47.6 AV	54.0	-6.4	2.22 V	214	38.7	8.9

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.90	56.6 PK	68.2	-11.6	1.50 H	263	53.2	3.4
2	*5865.00	104.6 PK			1.50 H	263	63.0	41.6
3	*5865.00	95.5 AV			1.50 H	263	53.9	41.6
4	#5941.40	58.4 PK	88.2	-29.8	1.50 H	263	54.5	3.9
5	11730.00	57.1 PK	74.0	-16.9	1.66 H	221	48.3	8.8
6	11730.00	47.0 AV	54.0	-7.0	1.66 H	221	38.2	8.8

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	#5616.50	59.0 PK	68.2	-9.2	2.28 V	96	55.8	3.2
2	*5865.00	120.0 PK			2.28 V	96	78.4	41.6
3	*5865.00	110.9 AV			2.28 V	96	69.3	41.6
4	#5926.68	73.6 PK	88.2	-14.6	2.28 V	96	69.7	3.9
5	11730.00	57.2 PK	74.0	-16.8	2.14 V	66	48.4	8.8
6	11730.00	47.3 AV	54.0	-6.7	2.14 V	66	38.5	8.8

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 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.55	57.3 PK	68.2	-10.9	2.37 H	289	53.9	3.4
2	*5885.00	106.0 PK			2.37 H	289	64.5	41.5
3	*5885.00	97.2 AV			2.37 H	289	55.7	41.5
4	#5930.95	66.2 PK	88.2	-22.0	2.37 H	289	62.2	4.0
5	11770.00	57.0 PK	74.0	-17.0	2.11 H	241	48.4	8.6
6	11770.00	47.0 AV	54.0	-7.0	2.11 H	241	38.4	8.6

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	#5606.05	57.0 PK	68.2	-11.2	2.46 V	221	53.8	3.2
2	*5885.00	117.3 PK			2.46 V	221	75.8	41.5
3	*5885.00	111.1 AV			2.46 V	221	69.6	41.5
4	#5934.27	76.2 PK	88.2	-12.0	2.46 V	221	72.2	4.0
5	11770.00	57.0 PK	74.0	-17.0	2.44 V	222	48.4	8.6
6	11770.00	47.1 AV	54.0	-6.9	2.44 V	222	38.5	8.6

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5639.77	57.3 PK	68.2	-10.9	1.09 H	116	53.9	3.4
2	*5835.00	104.6 PK			1.09 H	116	63.0	41.6
3	*5835.00	96.3 AV			1.09 H	116	54.7	41.6
4	#5928.10	60.6 PK	88.2	-27.6	1.09 H	116	56.6	4.0
5	11670.00	57.3 PK	74.0	-16.7	1.11 H	152	48.4	8.9
6	11670.00	47.4 AV	54.0	-6.6	1.11 H	152	38.5	8.9

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.00	61.0 PK	68.2	-7.2	2.44 V	271	57.6	3.4
2	*5835.00	118.7 PK			2.44 V	271	77.1	41.6
3	*5835.00	110.0 AV			2.44 V	271	68.4	41.6
4	#5929.52	72.2 PK	88.2	-16.0	2.44 V	271	68.2	4.0
5	11670.00	57.3 PK	74.0	-16.7	2.55 V	214	48.4	8.9
6	11670.00	47.3 AV	54.0	-6.7	2.55 V	214	38.4	8.9

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5640.25	56.1 PK	68.2	-12.1	1.02 H	113	52.7	3.4
2	*5875.00	102.2 PK			1.02 H	113	60.7	41.5
3	*5875.00	93.2 AV			1.02 H	113	51.7	41.5
4	#5930.00	71.9 PK	88.2	-16.3	1.02 H	113	67.9	4.0
5	11750.00	57.1 PK	74.0	-16.9	1.11 H	125	48.4	8.7
6	11750.00	47.1 AV	54.0	-6.9	1.11 H	125	38.4	8.7

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	#5560.45	59.1 PK	68.2	-9.1	2.49 V	261	56.2	2.9
2	*5875.00	118.0 PK			2.49 V	261	76.5	41.5
3	*5875.00	107.1 AV			2.49 V	261	65.6	41.5
4	#5927.62	86.2 PK	88.2	-2.0	2.49 V	261	82.3	3.9
5	11750.00	57.1 PK	74.0	-16.9	2.41 V	214	48.4	8.7
6	11750.00	47.1 AV	54.0	-6.9	2.41 V	214	38.4	8.7

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 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.57	59.8 PK	68.2	-8.4	1.11 H	116	56.4	3.4
2	*5855.00	101.0 PK			1.11 H	116	59.4	41.6
3	*5855.00	92.5 AV			1.11 H	116	50.9	41.6
4	#5932.37	79.9 PK	88.2	-8.3	1.11 H	116	75.9	4.0
5	11710.00	57.2 PK	74.0	-16.8	1.22 H	163	48.4	8.8
6	11710.00	47.2 AV	54.0	-6.8	1.22 H	163	38.4	8.8

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	#5638.82	65.2 PK	68.2	-3.0	1.13 V	113	61.8	3.4
2	*5855.00	108.0 PK			1.13 V	113	66.4	41.6
3	*5855.00	98.0 AV			1.13 V	113	56.4	41.6
4	#5931.43	87.7 PK	88.2	-0.5	1.13 V	113	83.7	4.0
5	11710.00	57.2 PK	74.0	-16.8	1.18 V	163	48.4	8.8
6	11710.00	47.2 AV	54.0	-6.8	1.18 V	163	38.4	8.8

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 (HE160)	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Wade Huang		

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	#5640.25	60.2 PK	68.2	-8.0	1.00 H	116	56.8	3.4
2	*5815.00	95.4 PK			1.00 H	116	53.8	41.6
3	*5815.00	86.2 AV			1.00 H	116	44.6	41.6
4	#5950.90	64.7 PK	88.2	-23.5	1.00 H	116	60.7	4.0
5	11630.00	57.5 PK	74.0	-16.5	1.21 H	163	48.4	9.1
6	11630.00	47.6 AV	54.0	-6.4	1.21 H	163	38.5	9.1

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	#5647.37	68.0 PK	68.2	-0.2	2.46 V	287	64.5	3.5
2	*5815.00	107.8 PK			2.46 V	287	66.2	41.6
3	*5815.00	98.6 AV			2.46 V	287	57.0	41.6
4	#5929.05	74.0 PK	88.2	-14.2	2.46 V	287	70.0	4.0
5	11630.00	57.5 PK	74.0	-16.5	2.22 V	214	48.4	9.1
6	11630.00	47.6 AV	54.0	-6.4	2.22 V	214	38.5	9.1

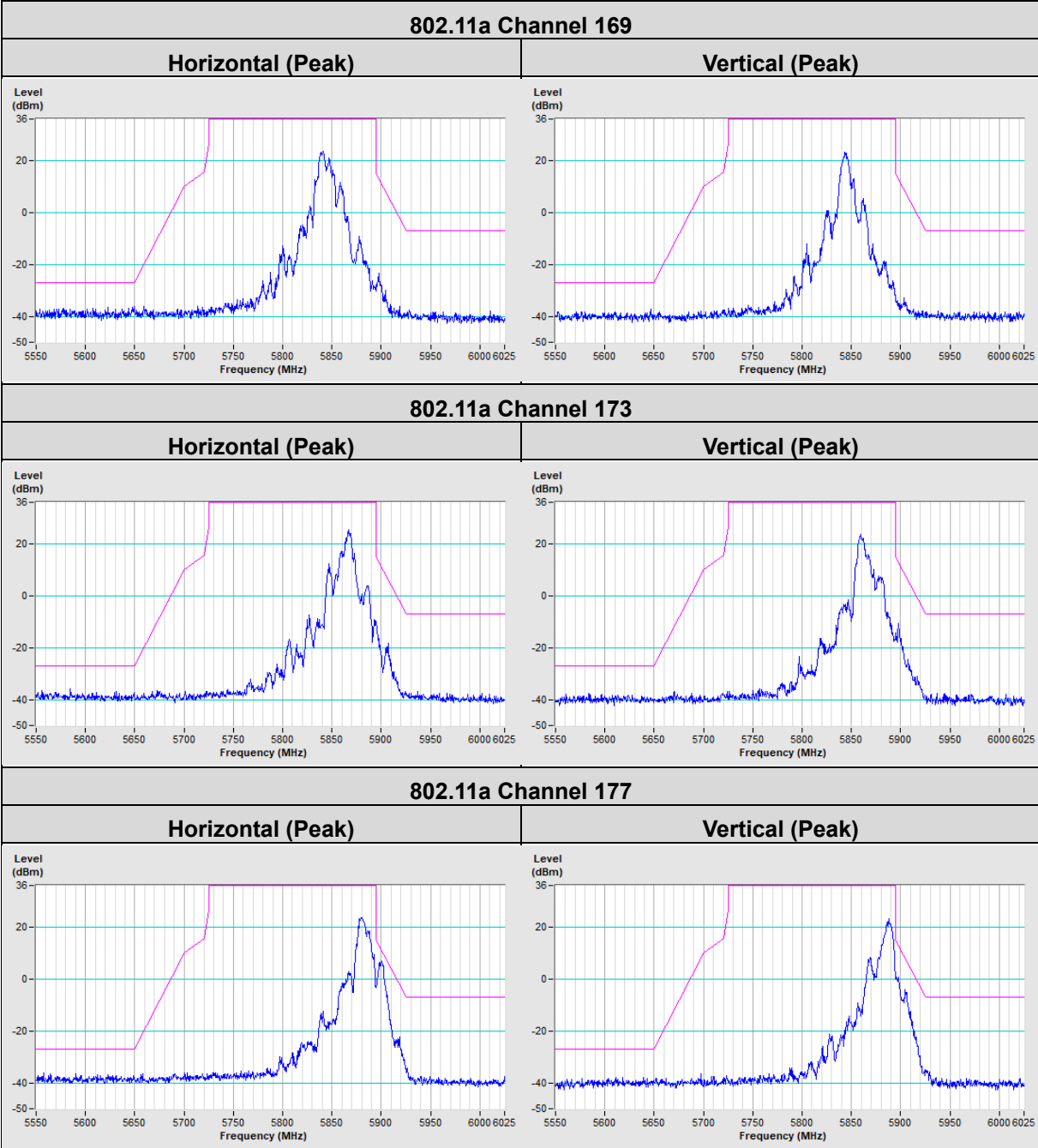
Remarks:

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

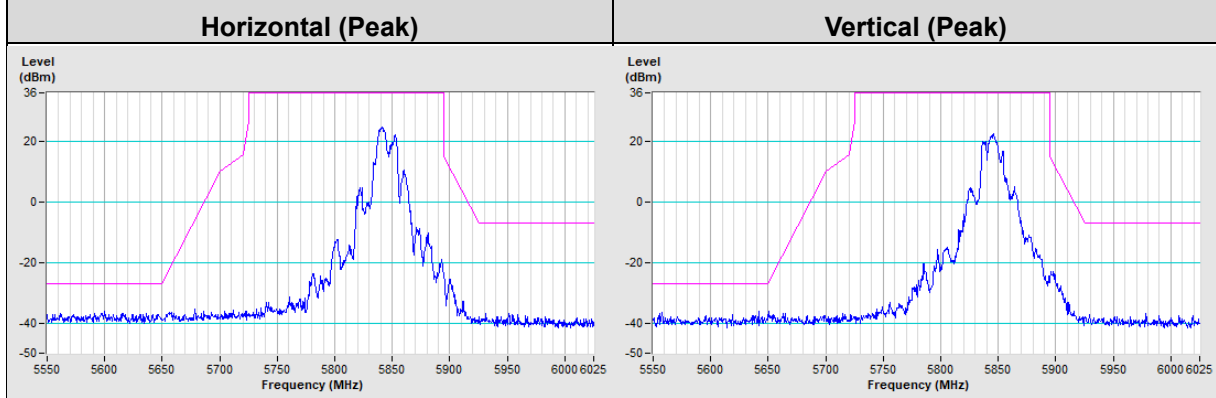
Band Edge

FAP-431G_Radio 2 (Test Mode A)

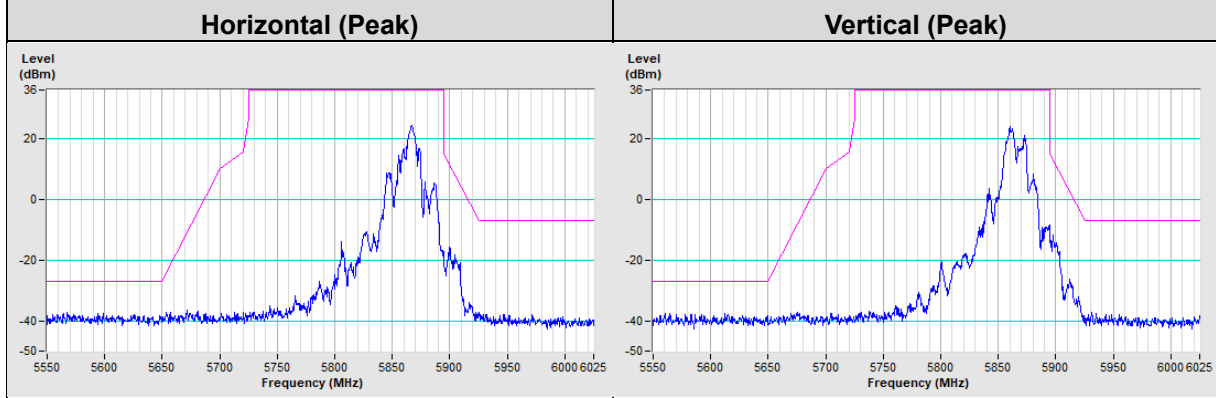
Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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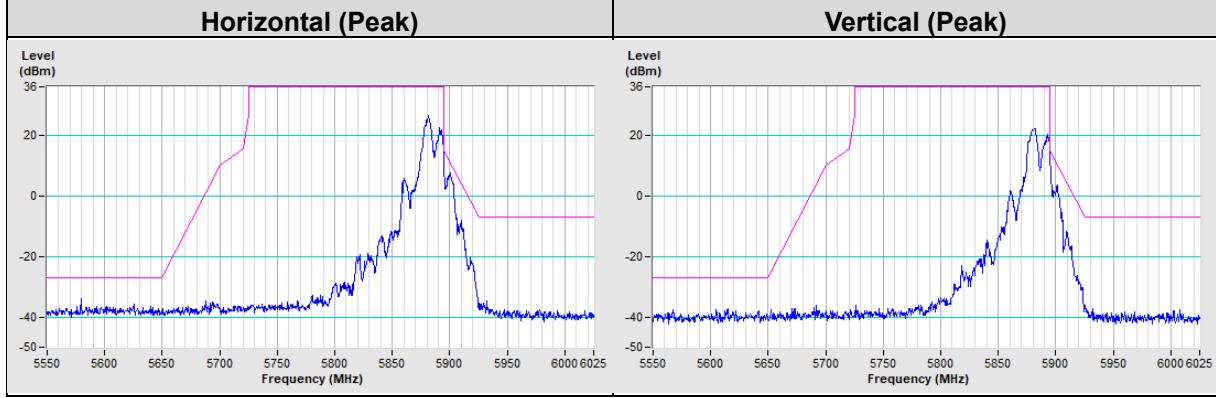
802.11ax (HE20) Channel 169



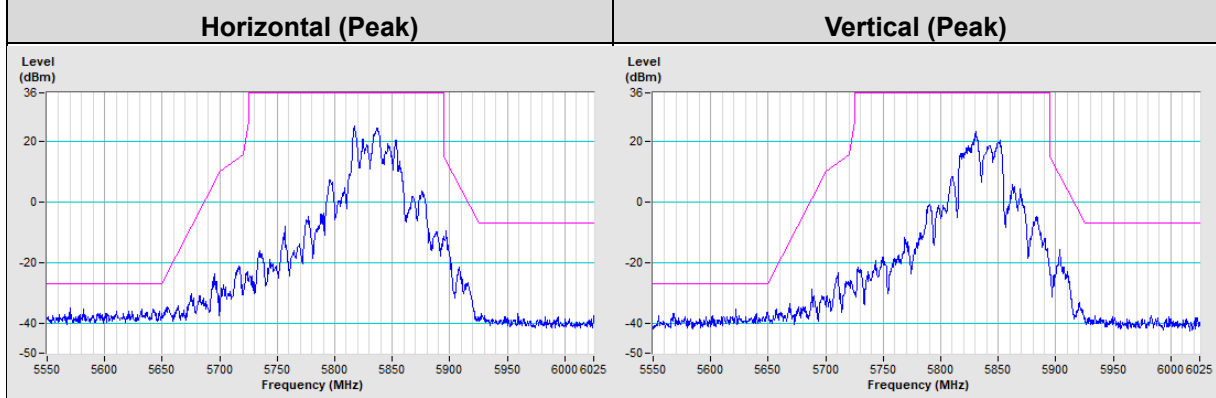
802.11ax (HE20) Channel 173



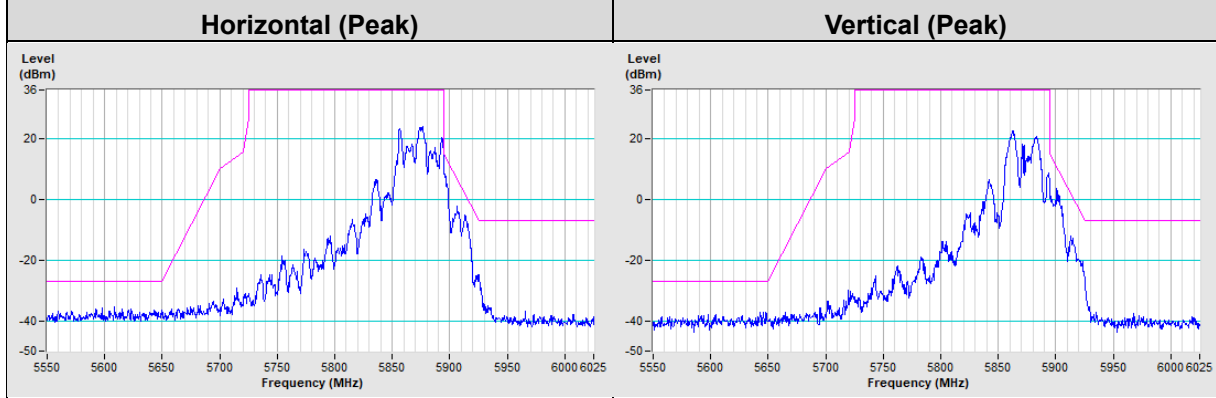
802.11ax (HE20) Channel 177

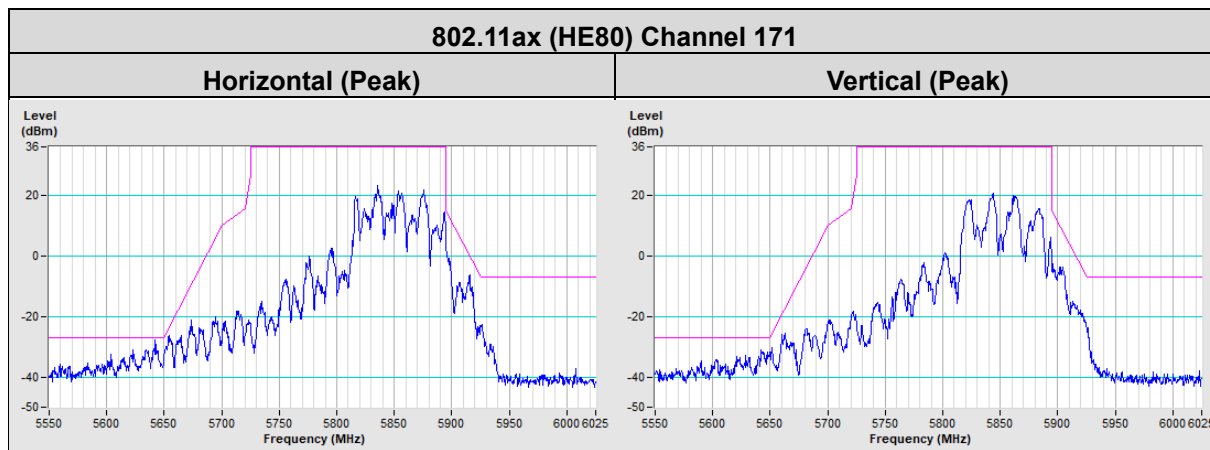


802.11ax (HE40) Channel 167



802.11ax (HE40) Channel 175

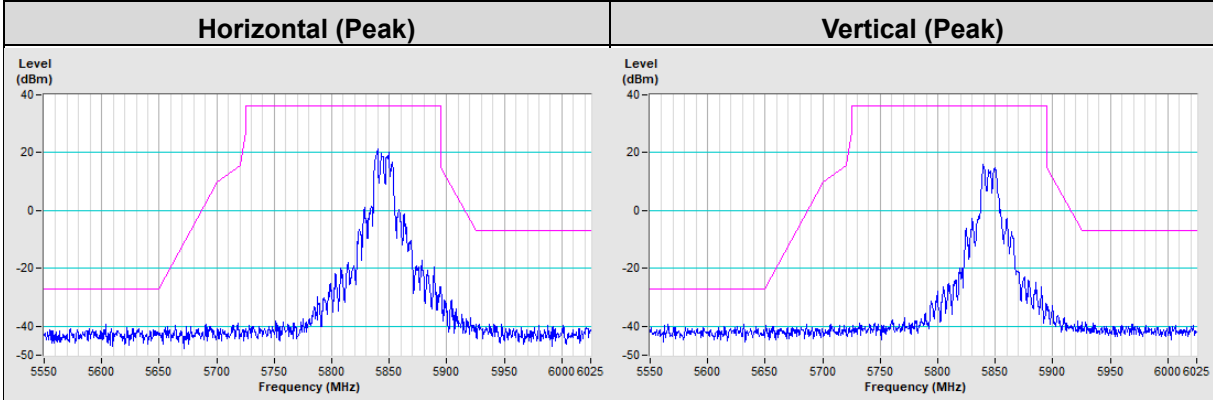




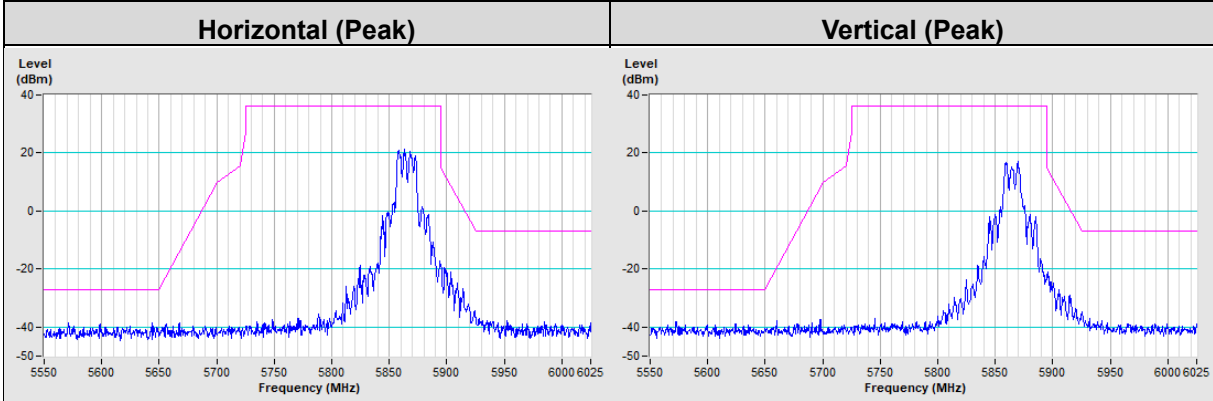
FAP-431G_Radio 3 (Test Mode C)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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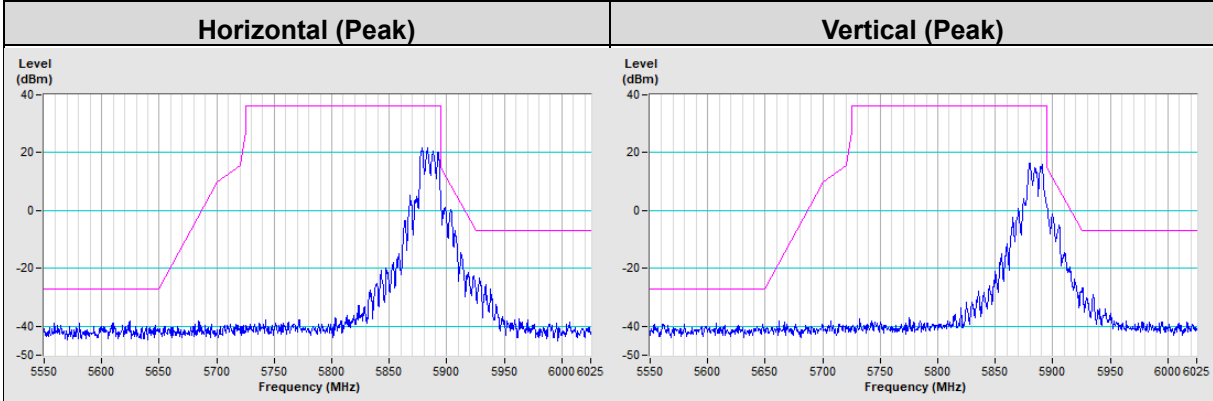
802.11a Channel 169



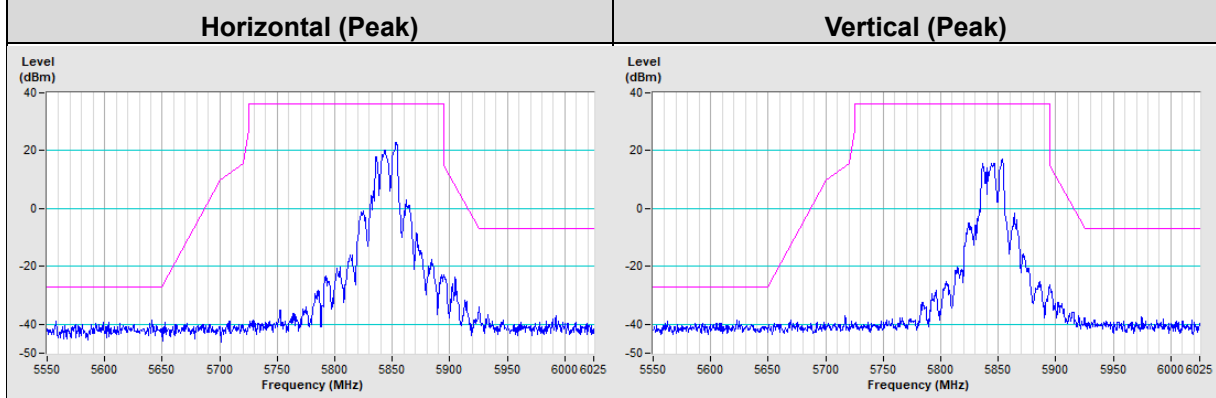
802.11a Channel 173



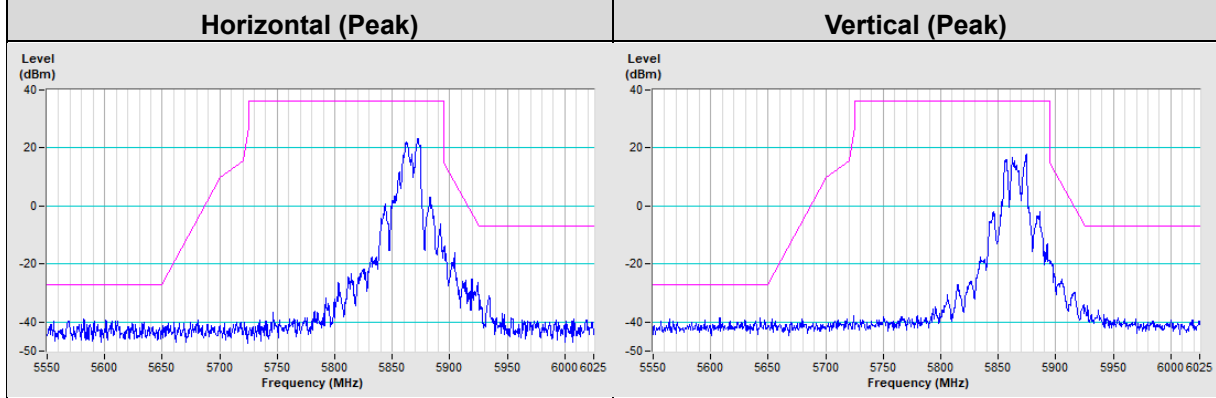
802.11a Channel 177



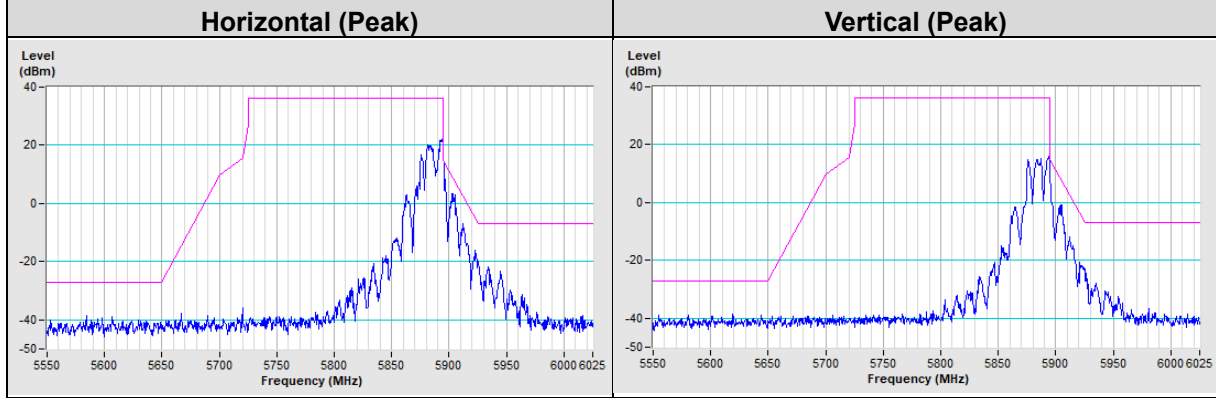
802.11ax (HE20) Channel 169



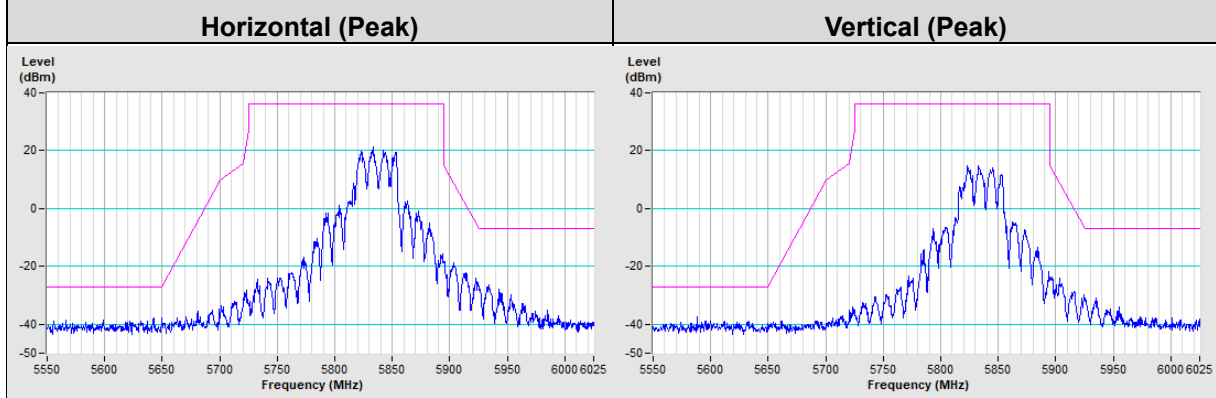
802.11ax (HE20) Channel 173



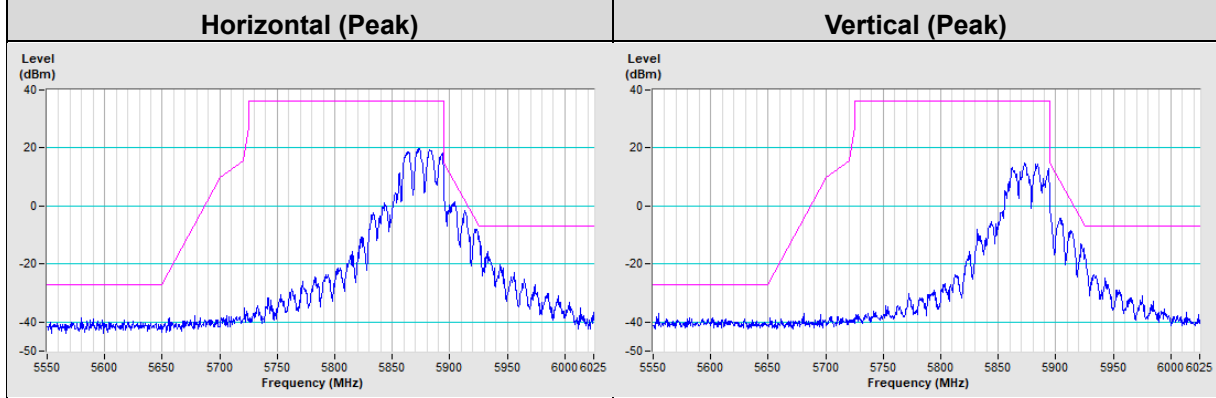
802.11ax (HE20) Channel 177

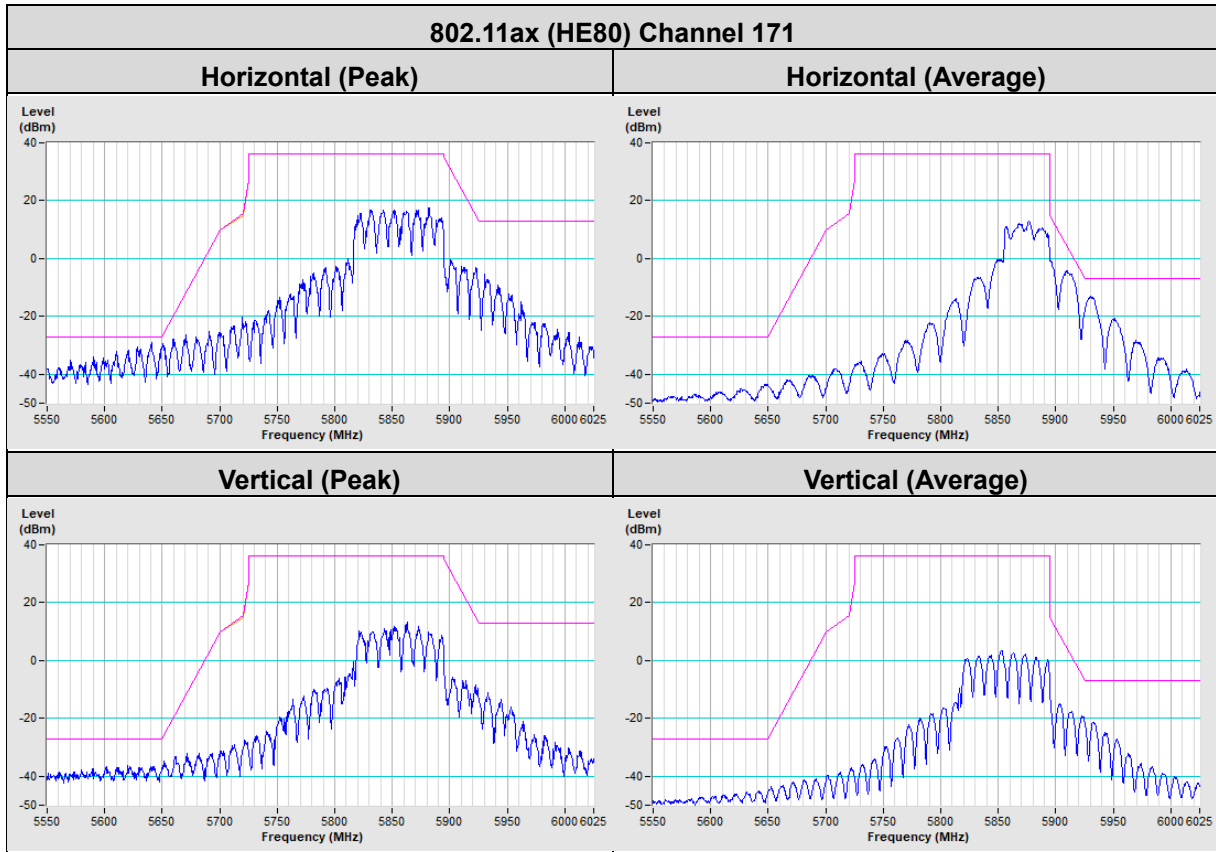


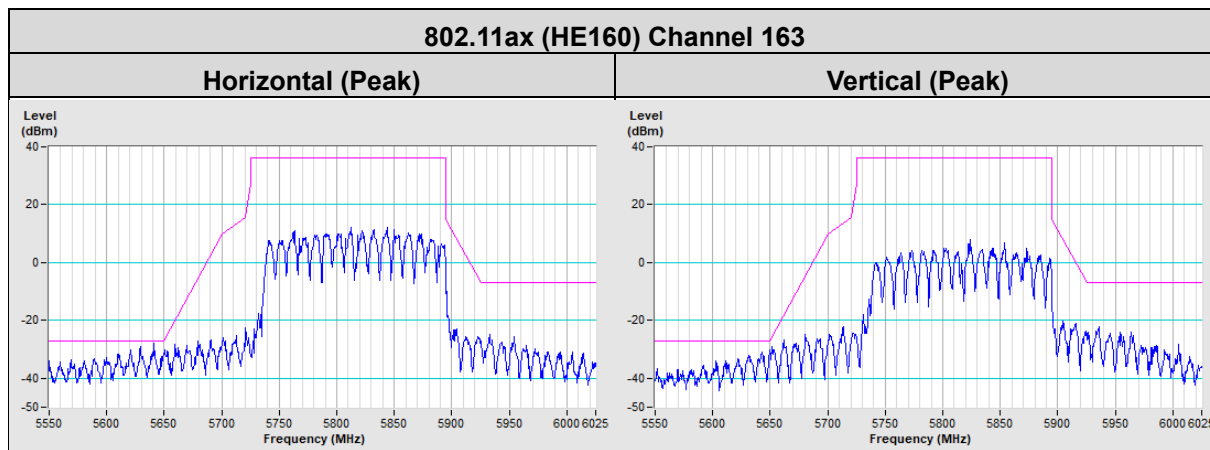
802.11ax (HE40) Channel 167



802.11ax (HE40) Channel 175

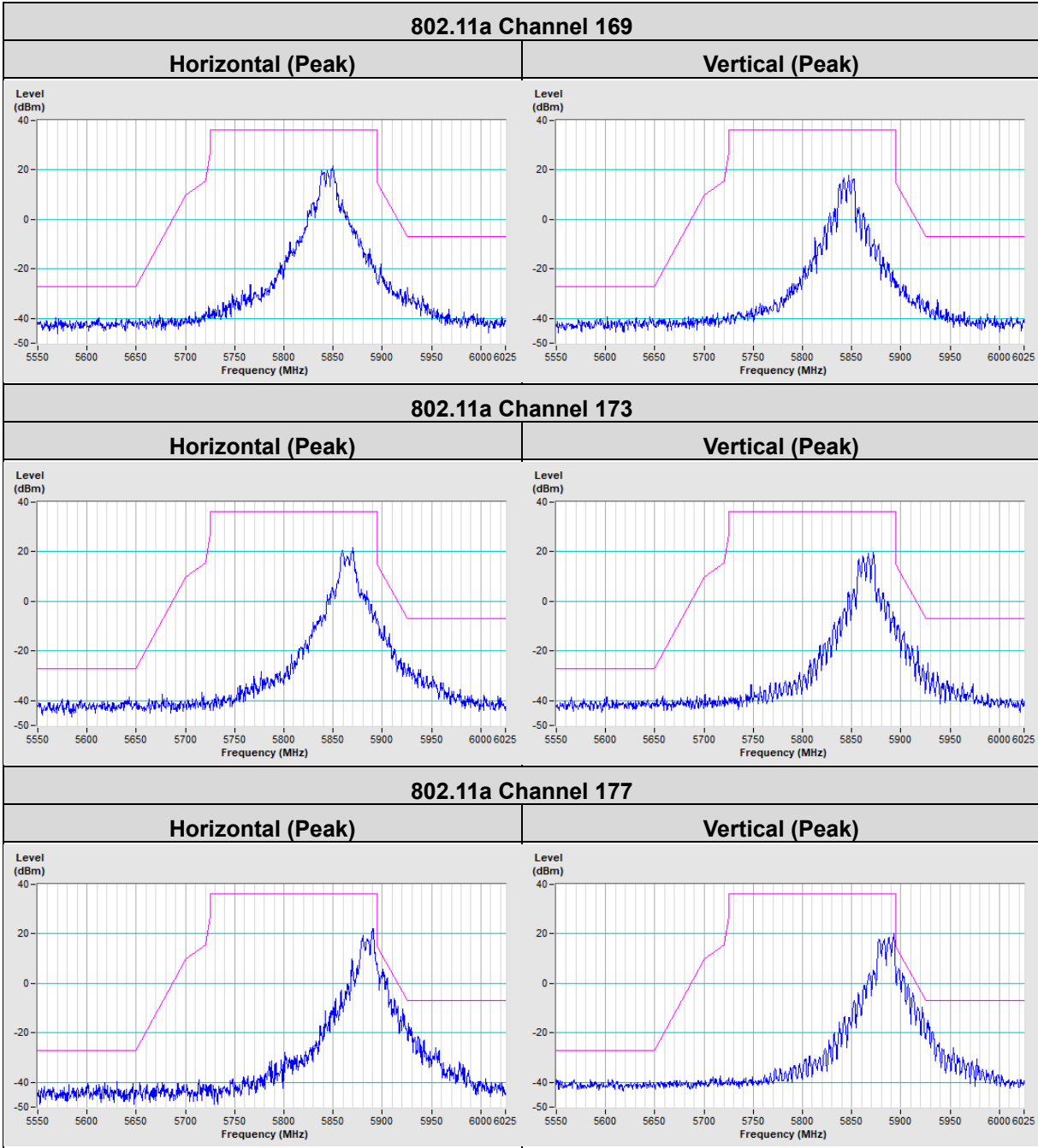




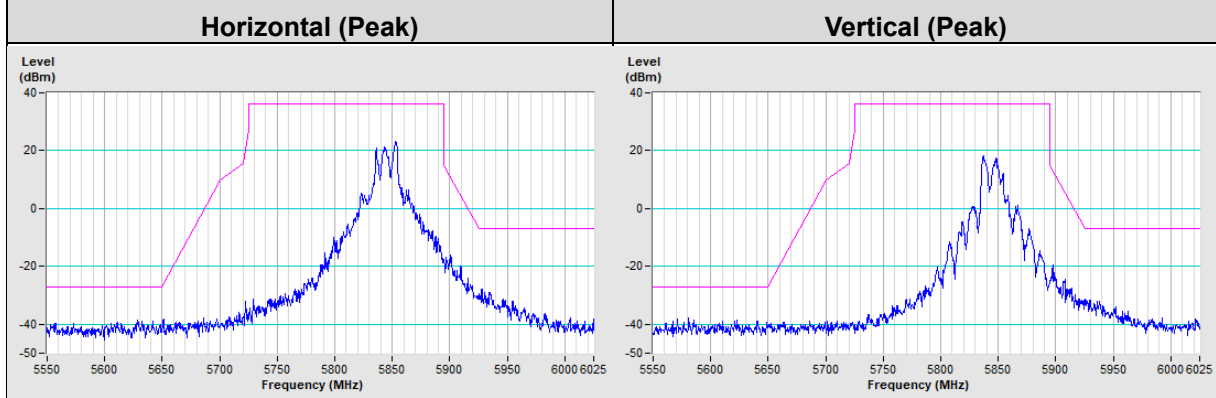


FAP-431G_Scanning Radio (Test Mode E)

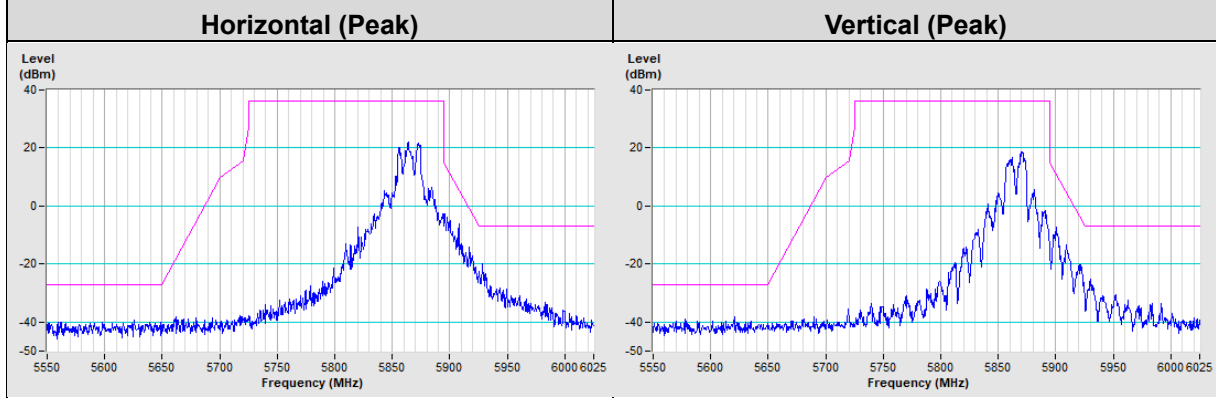
Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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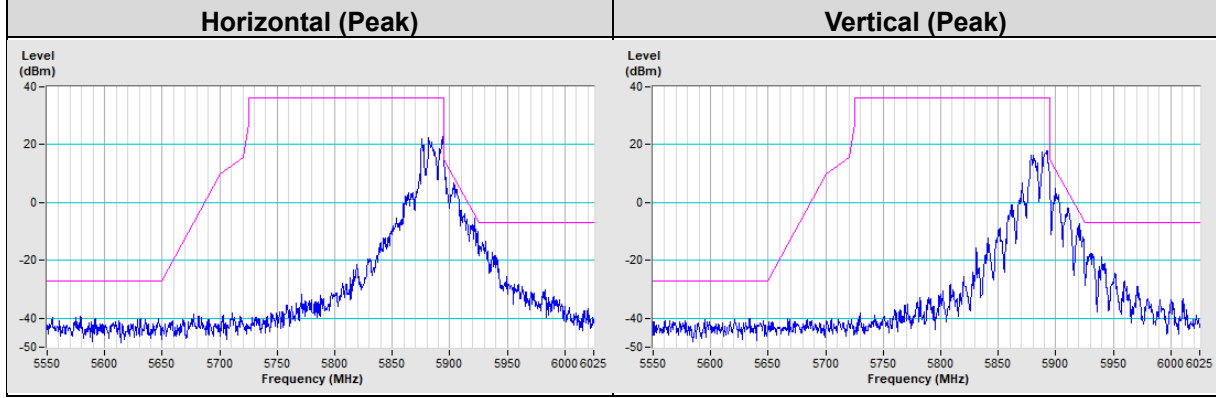
802.11ax (HE20) Channel 169



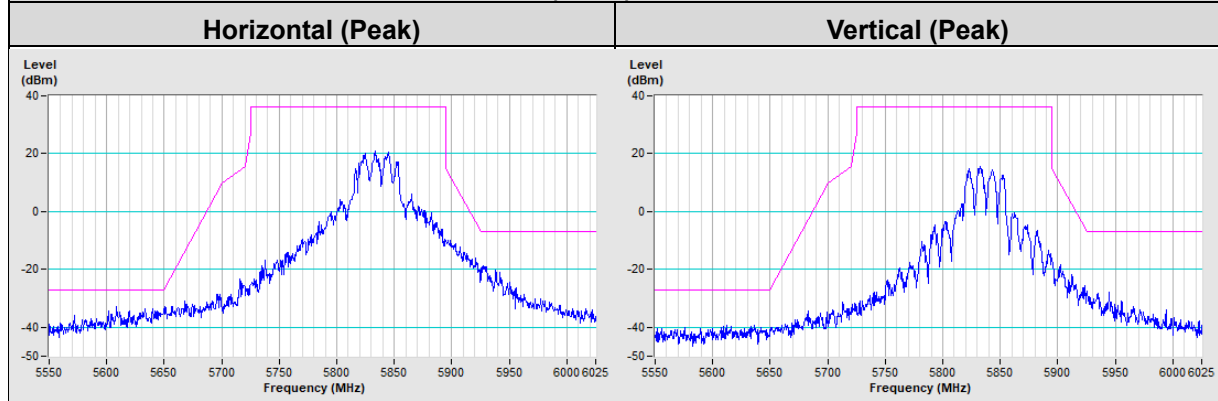
802.11ax (HE20) Channel 173



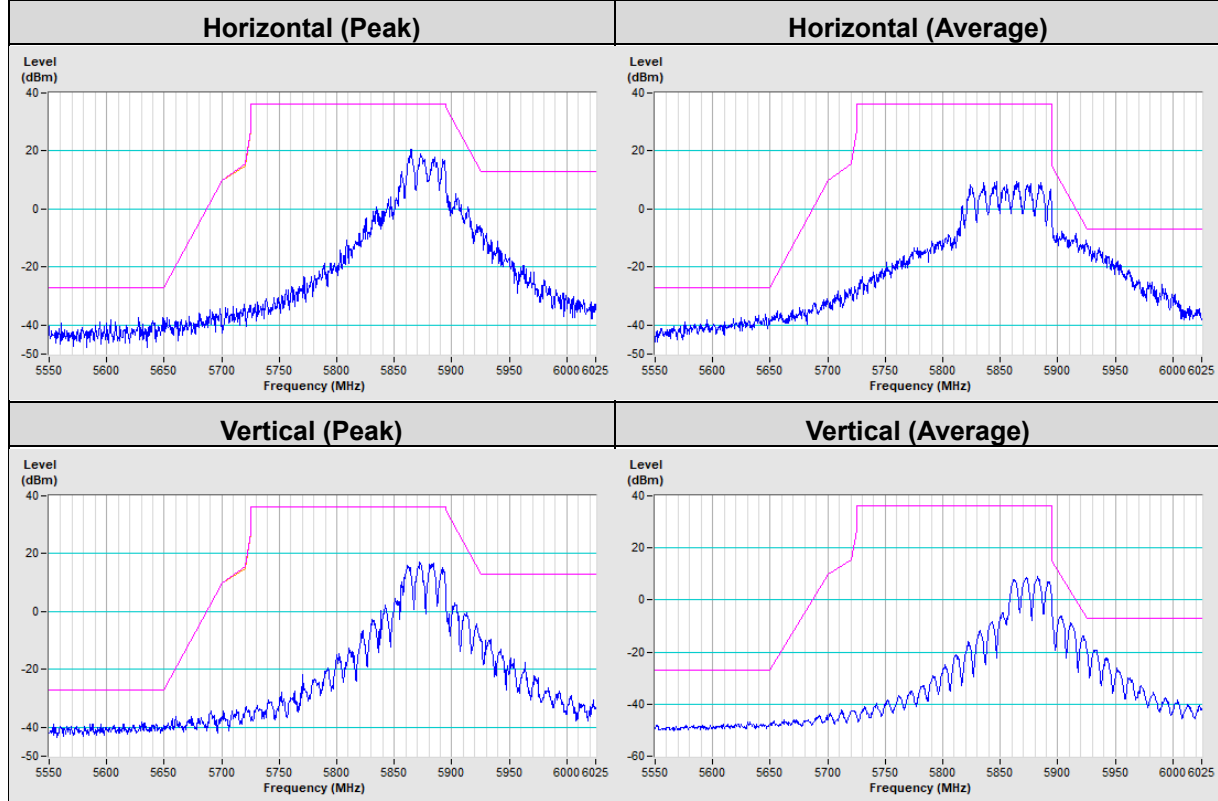
802.11ax (HE20) Channel 177



802.11ax (HE40) Channel 167

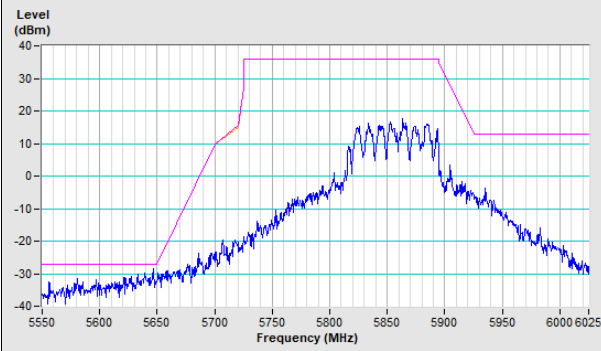


802.11ax (HE40) Channel 175

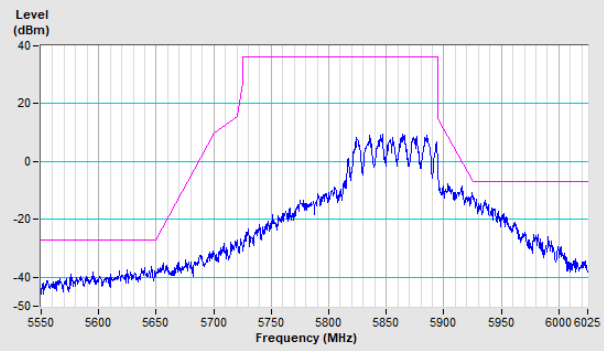


802.11ax (HE80) Channel 171

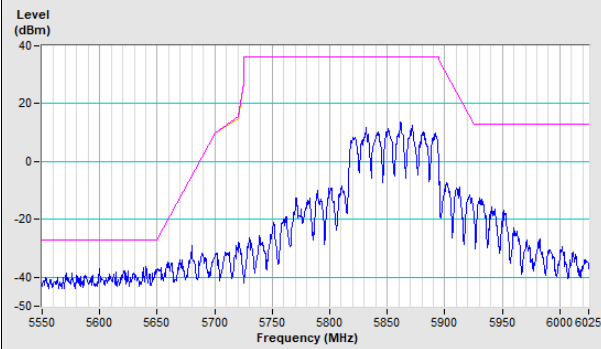
Horizontal (Peak)



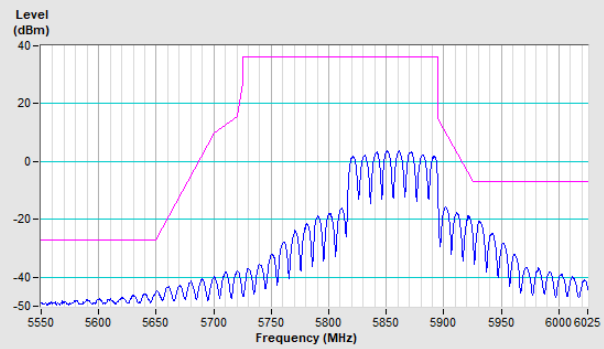
Horizontal (Average)

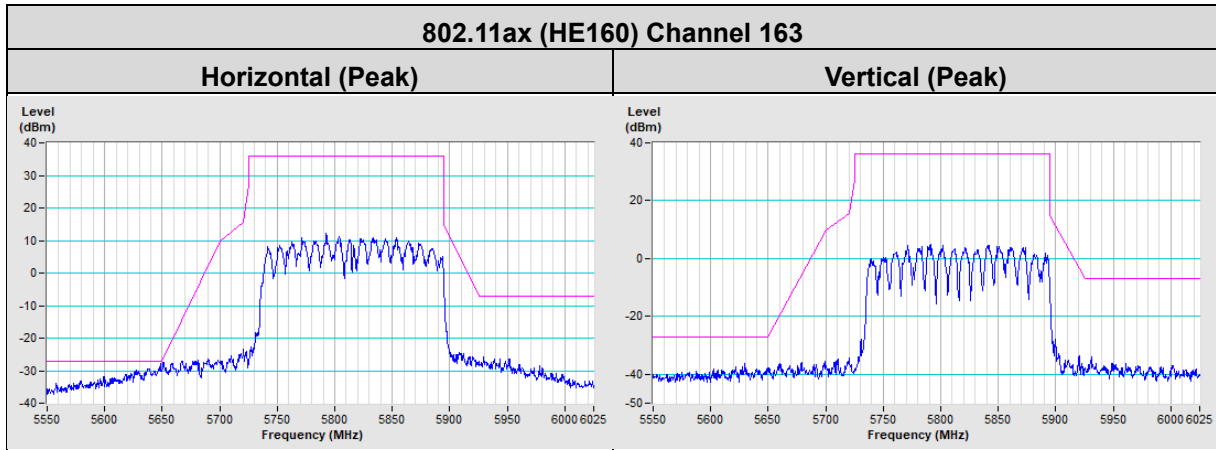


Vertical (Peak)



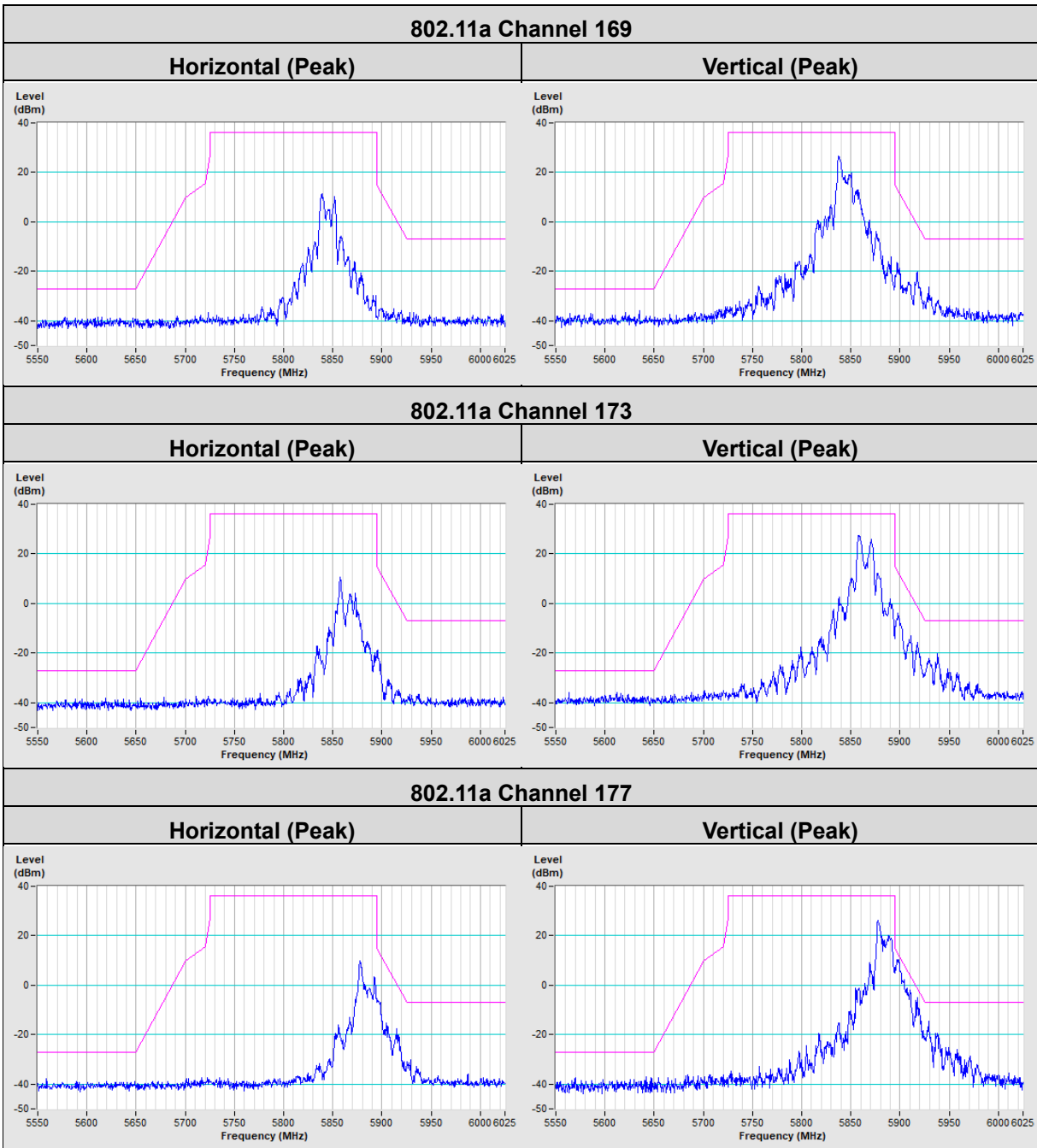
Vertical (Average)

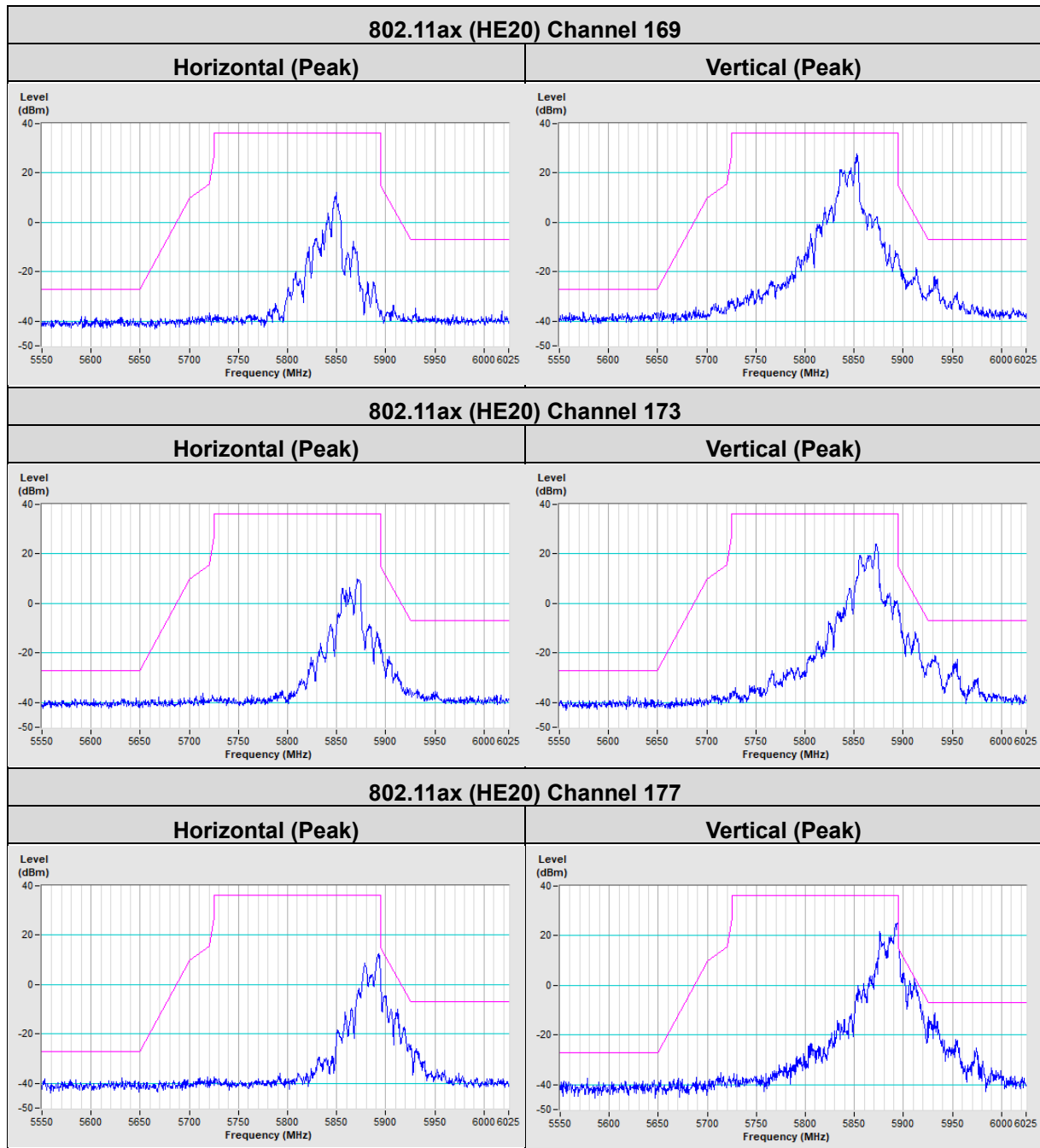




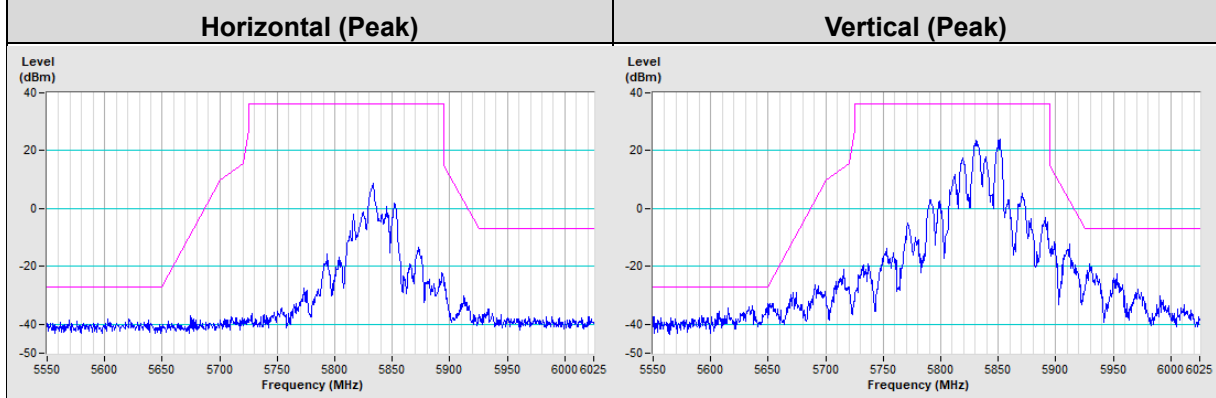
FAP-433G_Radio 3 (Test Mode G)

Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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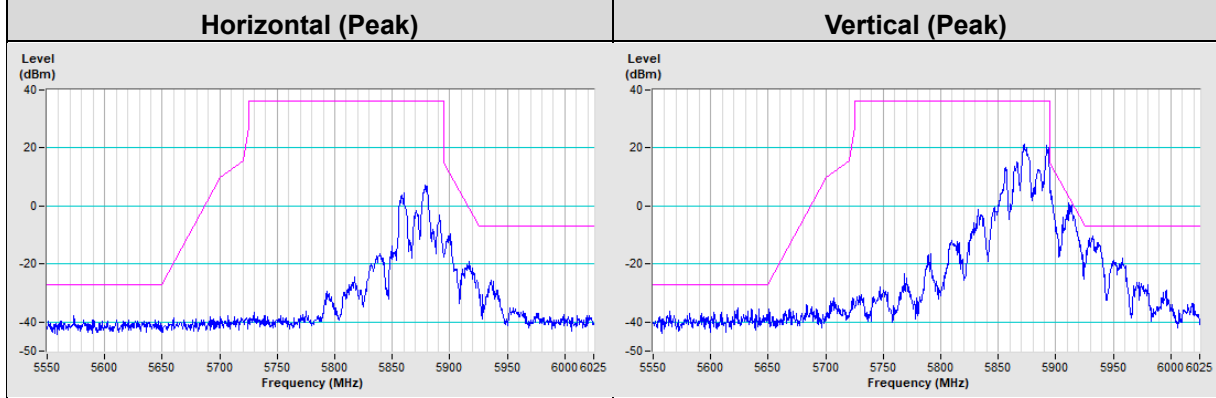


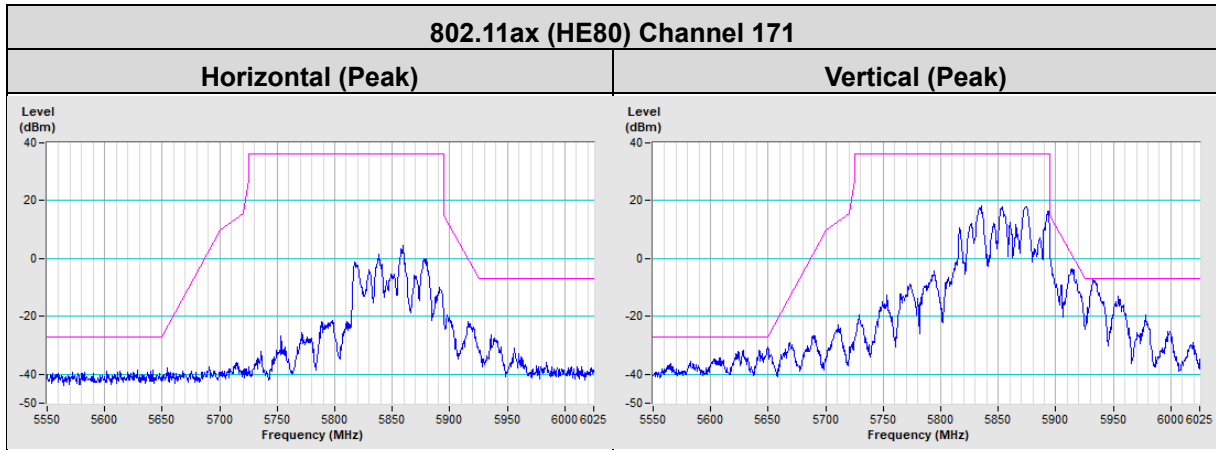


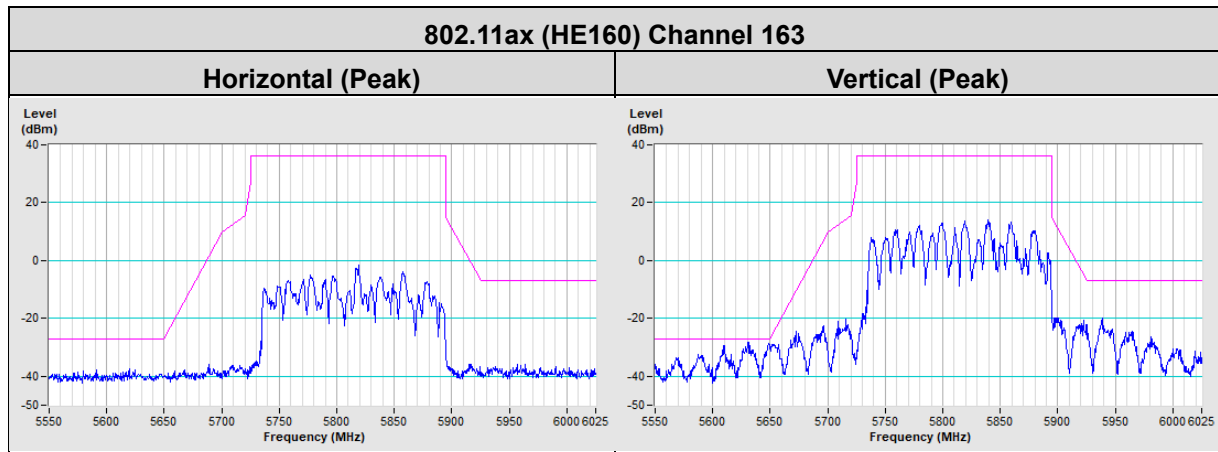
802.11ax (HE40) Channel 167



802.11ax (HE40) Channel 175

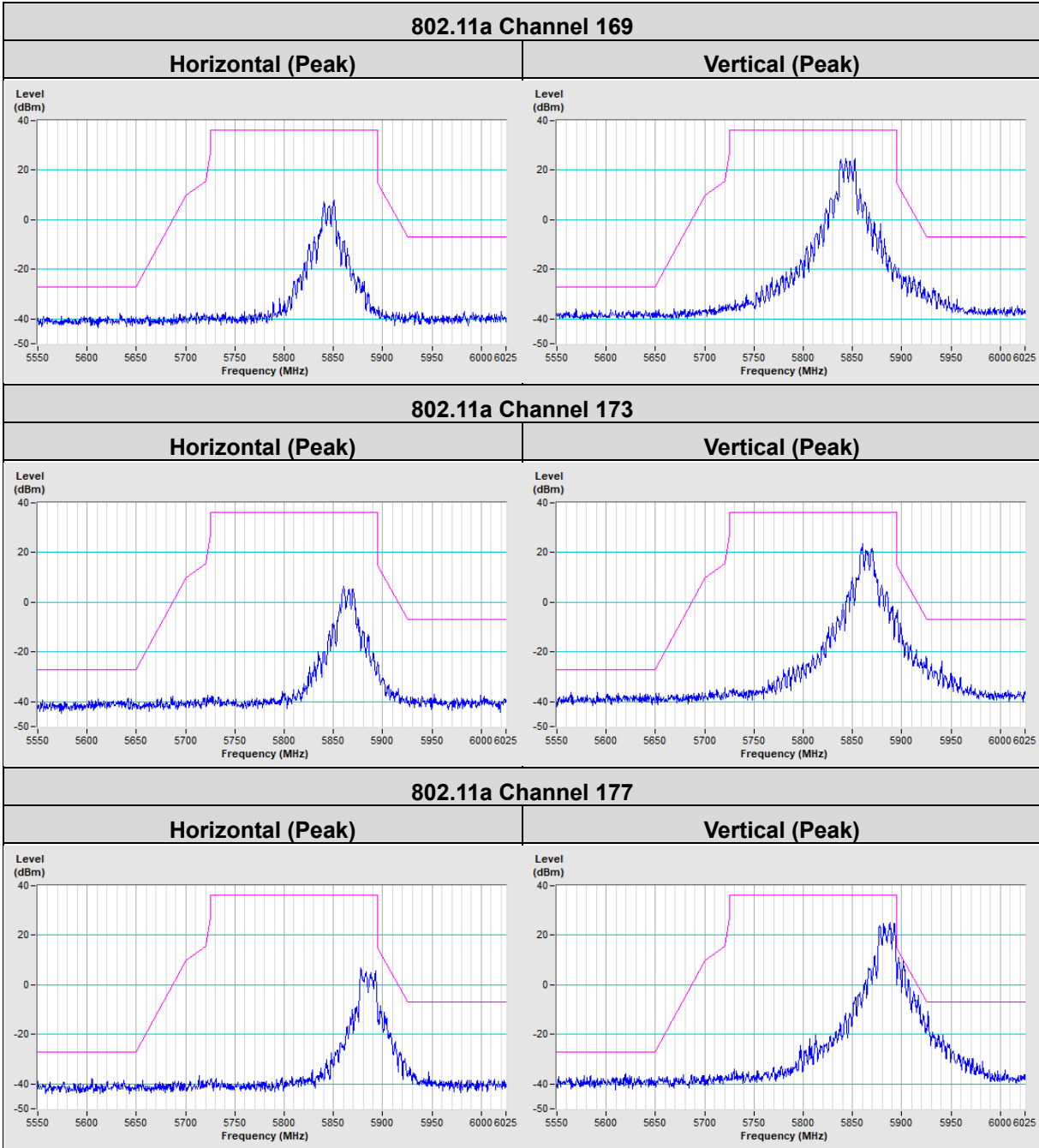




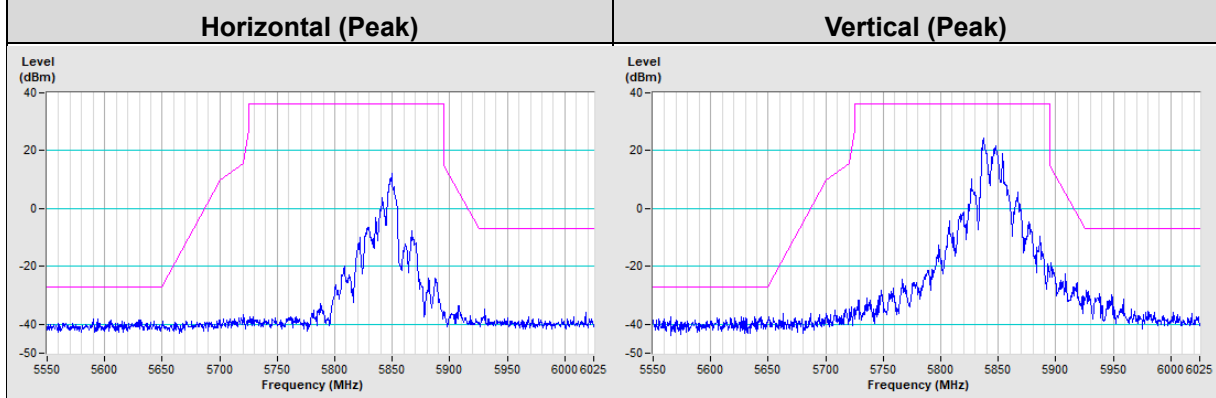


FAP-433G_Scanning Radio (Test Mode I)

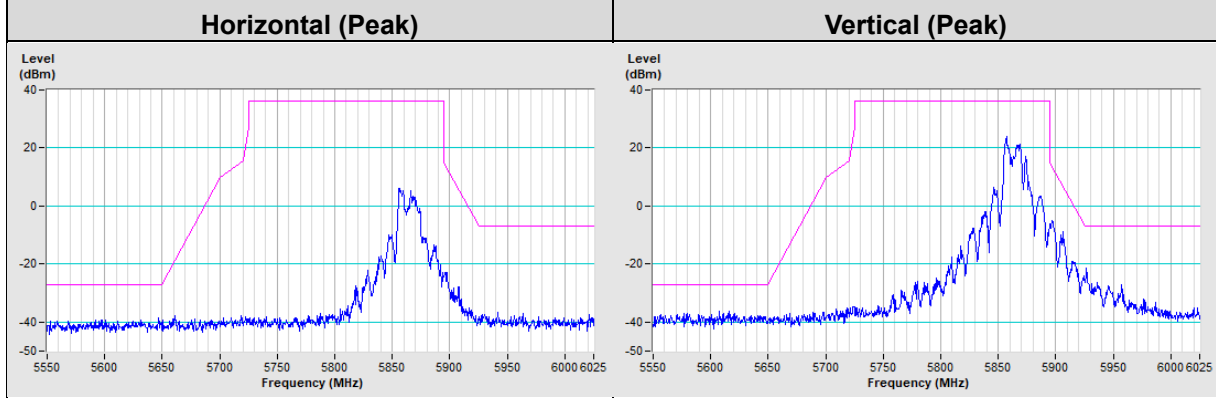
Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 MHz (RMS)
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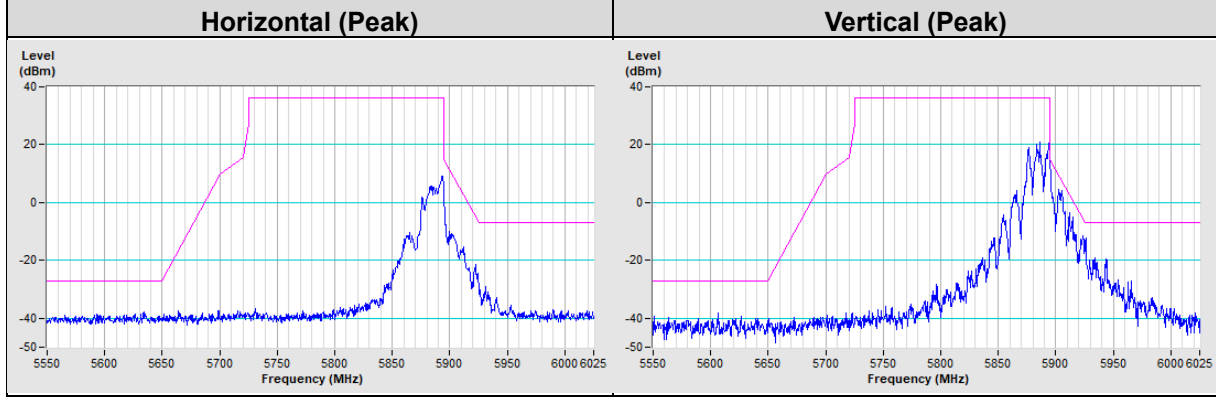
802.11ax (HE20) Channel 169



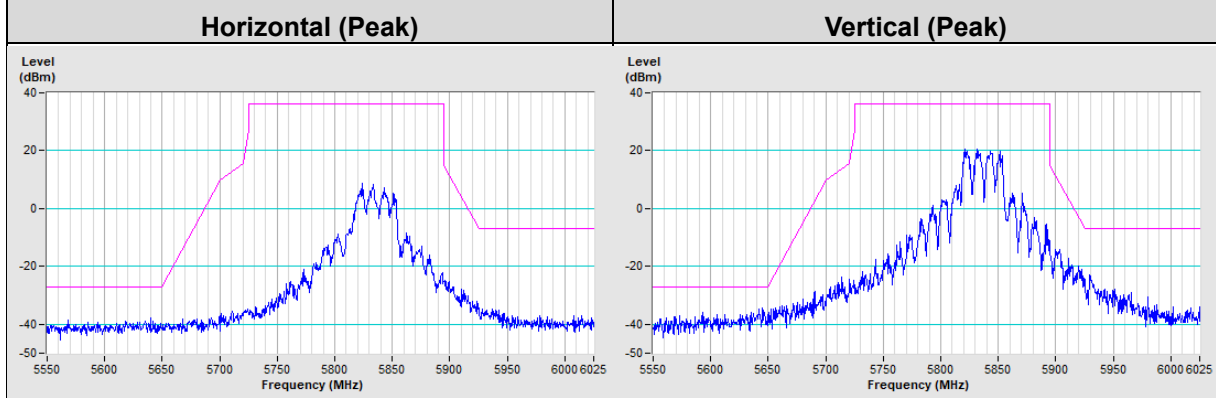
802.11ax (HE20) Channel 173



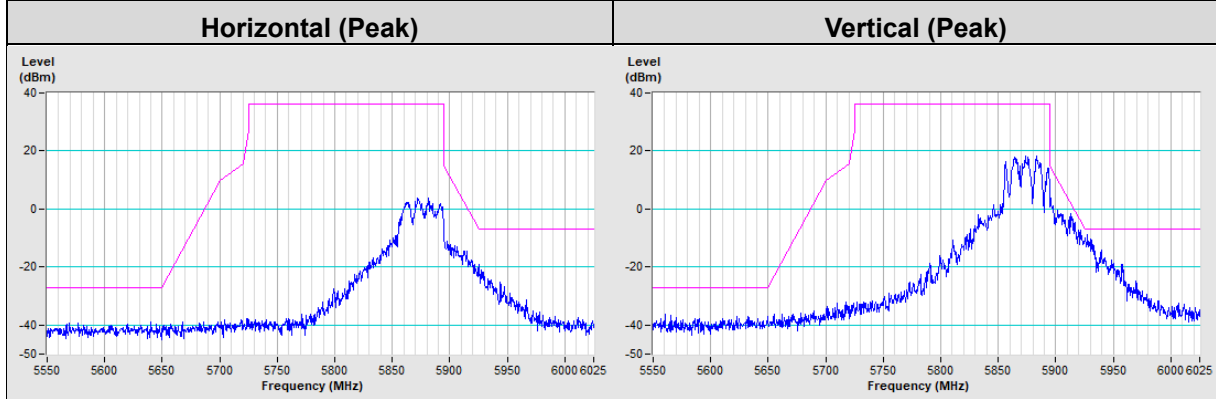
802.11ax (HE20) Channel 177

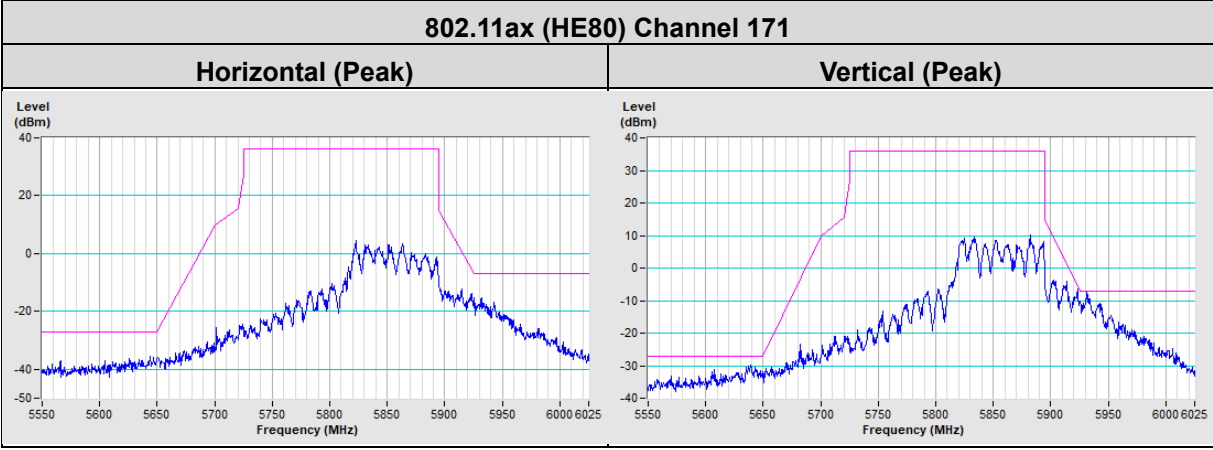


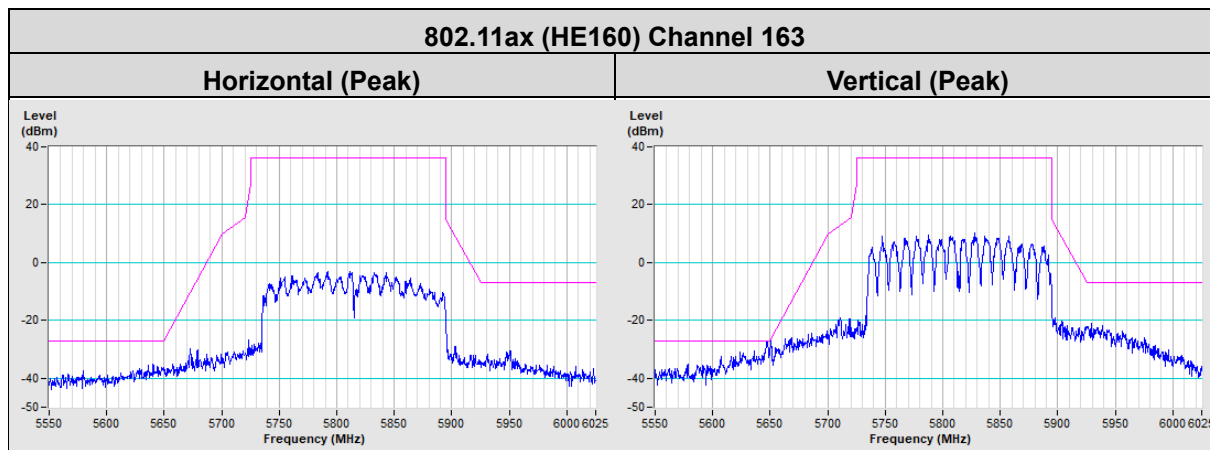
802.11ax (HE40) Channel 167



802.11ax (HE40) Channel 175







8 Operational Restrictions for 5.85-5.895GHz U-NII Devices

For Indoor Access Point operates in the 5.850-5.895 GHz band, is supplied power from a wired connection, has an integrated antenna, is not battery powered, and does not have a weatherized enclosure. Indoor access point devices must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only.

Device is a Indoor access point, all restrictions are meet the §15.403 requirements. Please refer to the Attestation letter exhibit supplied within this application.

9 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)



10 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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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