

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBAYG-WTW-P25040286-2

FCC ID: A94443537

Product: Wireless subwoofer

Brand: BOSE

Model No.: 443537

Received Date: 2025/4/15

Test Date: 2025/5/28 ~ 2025/6/14

Issued Date: 2025/9/23

Applicant: Bose Corporation

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

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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / Test Location:

Designation Number: 198487 / TW2021 for Test Location(1)
281270 / TW0032 for Test Location(2)

Approved by: Jeremy Lin, **Date:** 2025/9/23
Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBAYG-WTW-P25040286-2	Original release.	2025/9/23

1 Certificate

Product: Wireless subwoofer

Brand: BOSE

Test Model: 443537

Sample Status: Engineering sample

Applicant: Bose Corporation

Test Date: 2025/5/28 ~ 2025/6/14

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

Measurement ANSI C63.10-2020

procedure: KDB 291074 D02 EMC Measurement v01

KDB 789033 D02 General UNII Test Procedure New Rules 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 -13.68 dB at 0.41253 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.8 dB at 30.00 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 5895.00 MHz and 5925.00 MHz
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	960 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.55 dB
	30 MHz ~ 1 GHz	5.77 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	Wireless subwoofer
Brand	BOSE
Test Model	443537
Status of EUT	Engineering sample
Power Supply Rating	100-240Vac, 50/60Hz, 180W
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 600.4 Mbps
Operating Frequency	5.835 GHz ~ 5.885 GHz
Number of Channel	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
Output Power	EIRP: 133.045 mW (21.24 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Specification
AC power cable	Non-shielded without core, 1.5m

2. There are WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
3. WLAN 2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz technologies cannot transmit at same time.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Frequency range (GHz)	Gain (dBi)	Antenna Type	Connector Type
5.85~5.895	2.89	Monopole	ipex(MHF)

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

2. The EUT incorporates a SISO function:

5.9 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1Tx Diversity	1Rx diversity
802.11n (HT20)	1Tx Diversity	1Rx diversity
802.11n (HT40)	1Tx Diversity	1Rx diversity
802.11ac (VHT20)	1Tx Diversity	1Rx diversity
802.11ac (VHT40)	1Tx Diversity	1Rx diversity
802.11ac (VHT80)	1Tx Diversity	1Rx diversity
802.11ax (HE20)	1Tx Diversity	1Rx diversity
802.11ax (HE40)	1Tx Diversity	1Rx diversity
802.11ax (HE80)	1Tx Diversity	1Rx diversity

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz). Therefore the investigated worst case is the representative mode in test report.
- The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

3.3 Channel List

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

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

3.4 Test Mode Applicability and Tested Channel Detail

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

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A,B	802.11a	169, 173, 177	BPSK	6Mb/s
		802.11ac (VHT20)	169, 173, 177	BPSK	MCS0
		802.11ac (VHT40)	167, 175	BPSK	MCS0
		802.11ac (VHT80)	171	BPSK	MCS0
		802.11ax (HE20)	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	167, 175	BPSK	MCS0
		802.11ax (HE80)	171	BPSK	MCS0
Power Spectral Density	A,B	802.11a	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	167, 175	BPSK	MCS0
		802.11ax (HE80)	171	BPSK	MCS0
6 dB Bandwidth	A,B	802.11a	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	167, 175	BPSK	MCS0
		802.11ax (HE80)	171	BPSK	MCS0
AC Power Conducted Emissions	A,B	802.11ax (HE40)	175	BPSK	MCS0
Unwanted Emissions below 1 GHz	A,B	802.11ax (HE40)	175	BPSK	MCS0
Unwanted Emissions above 1 GHz	A,B	802.11a	169, 173, 177	BPSK	6Mb/s
		802.11ax (HE20)	169, 173, 177	BPSK	MCS0
		802.11ax (HE40)	167, 175	BPSK	MCS0
		802.11ax (HE80)	171	BPSK	MCS0
EUT Configure Mode:	A	Test Conditions Chain0 for J1701			
	B	Test Conditions Chain1 for J1702			

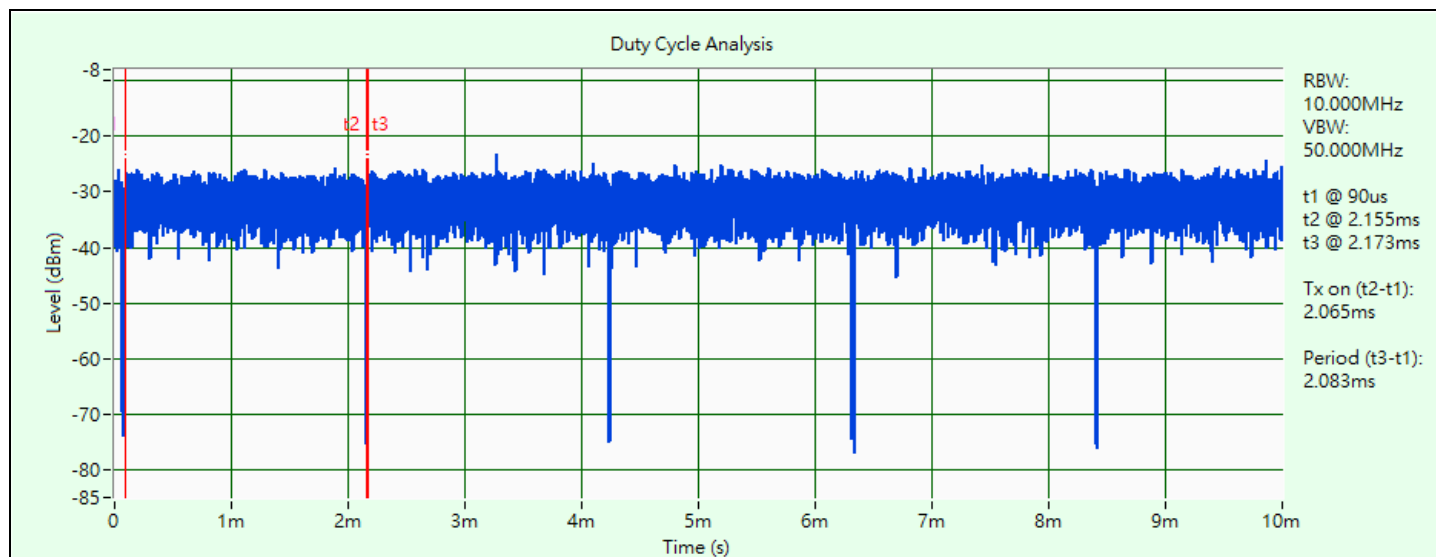
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.065 ms / 2.083 ms x 100% = 99.1%

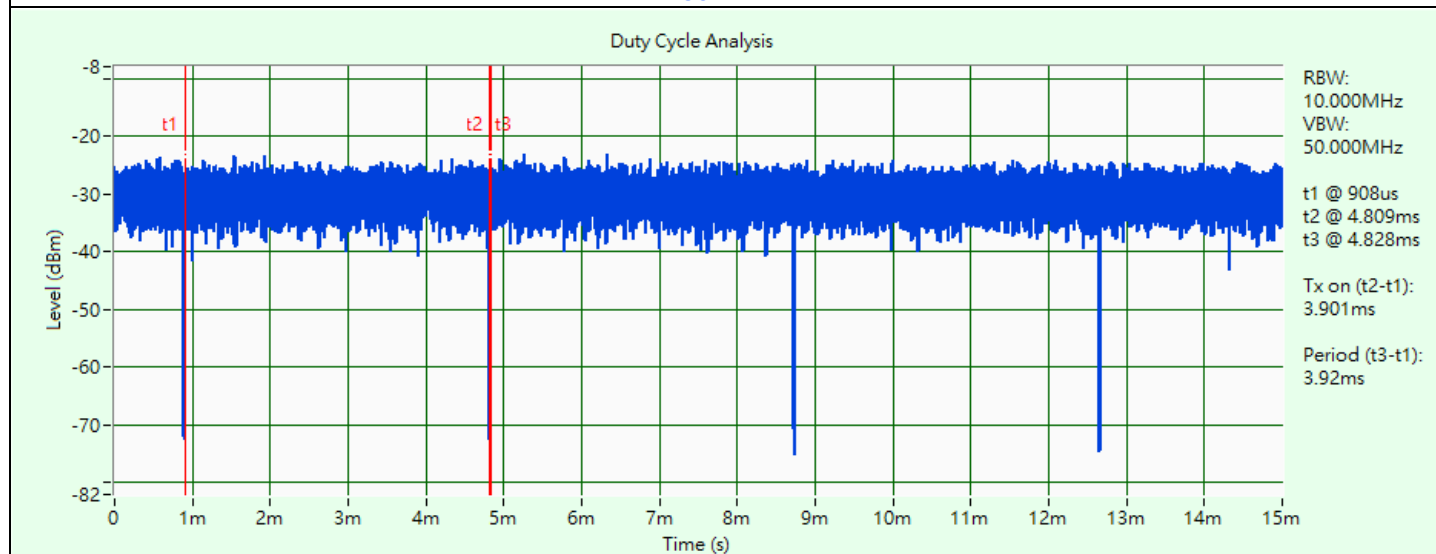
802.11ax (HE20): Duty cycle = 3.901 ms / 3.92 ms x 100% = 99.5%

802.11ax (HE40): Duty cycle = 3.795 ms / 3.814 ms x 100% = 99.5%

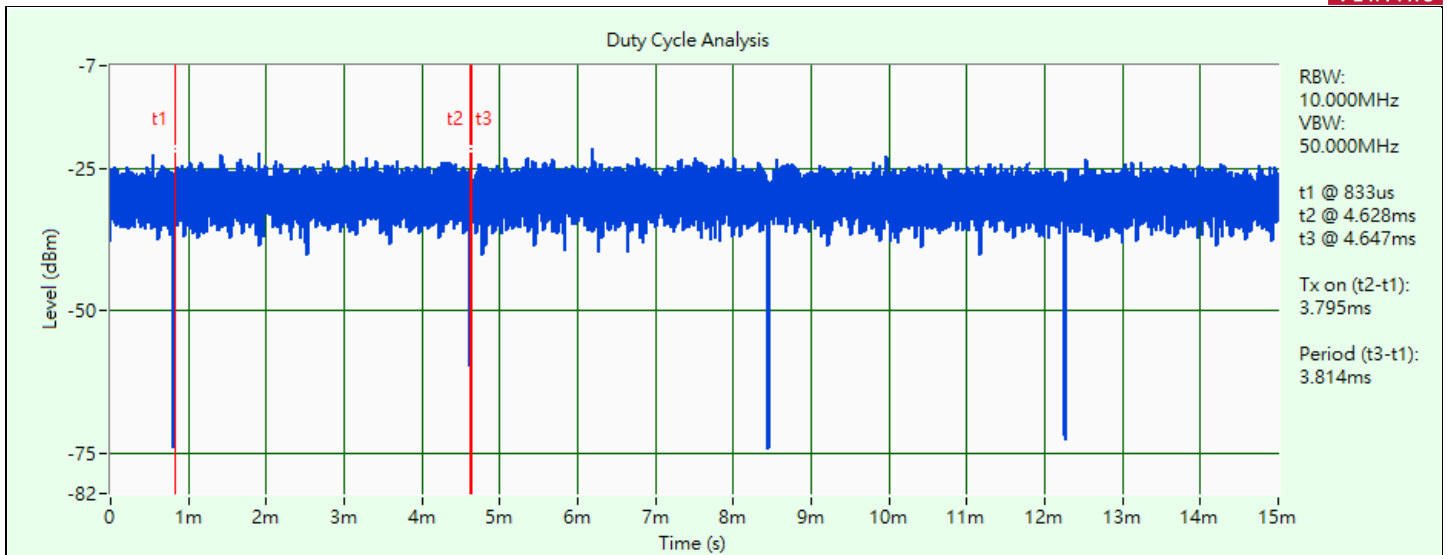
802.11ax (HE80): Duty cycle = 1.842 ms / 1.843 ms x 100% = 99.9%



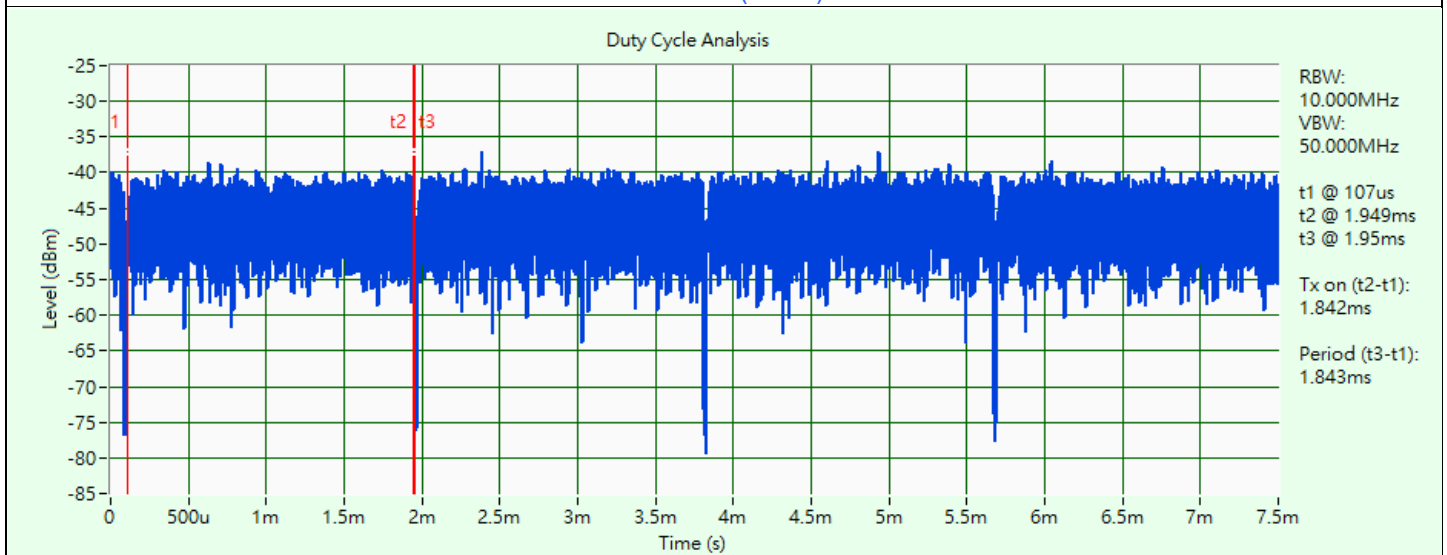
802.11a



802.11ax (HE20)



802.11ax (HE40)



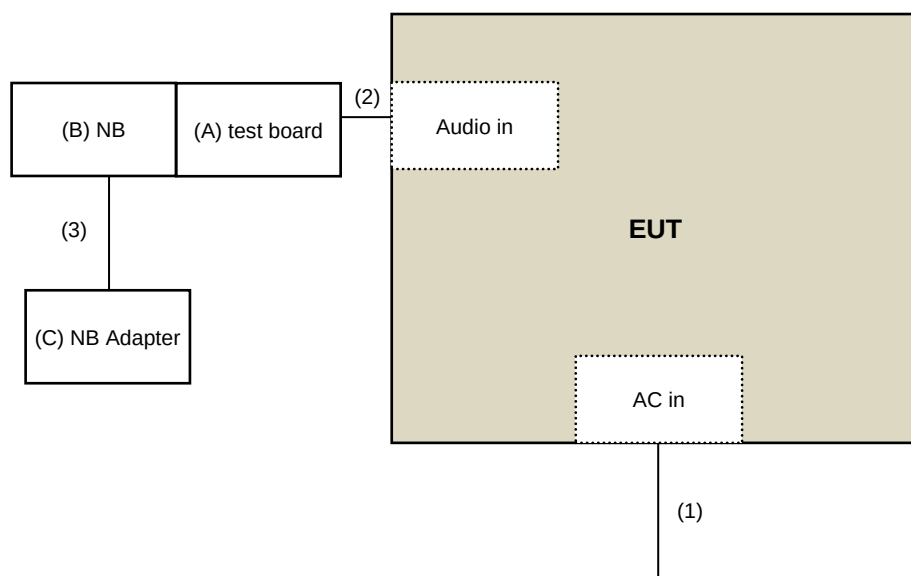
802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

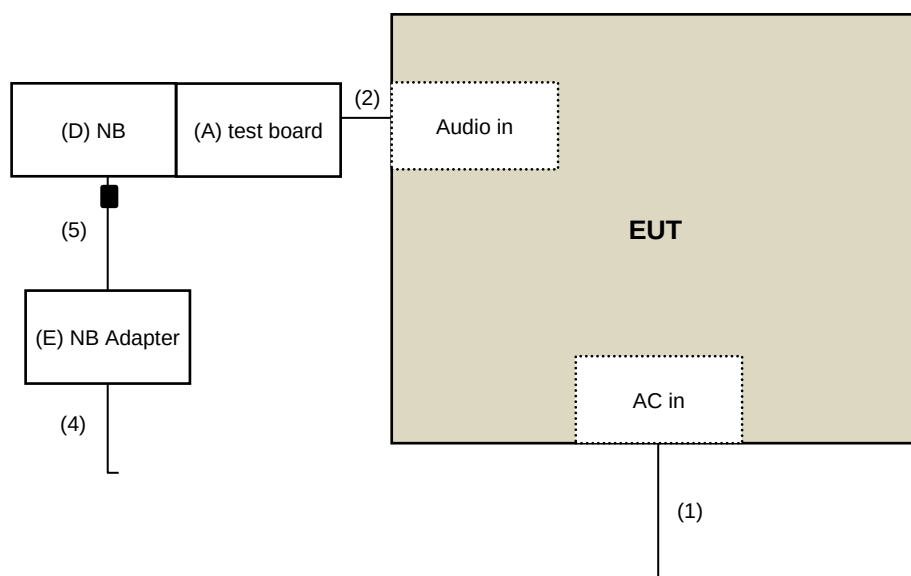
Controlling software (Tera Term V4.8) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Unwanted Emission below 1GHz · AC Conducted Emission



Unwanted Emission above 1GHz



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	test board	N/A	N/A	N/A	N/A	Supplied by applicant
B	NB	Lenovo	IdeaPad 5 15ITL05	N/A	N/A	Provided by Lab
C	NB Adapter	Lenovo	ADLX65CLGC2A	N/A	N/A	Provided by Lab
D	NB	Lenovo	20J4 MD A003TW	N/A	N/A	Provided by Lab
E	NB Adapter	Lenovo	ADLX65NCC3A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC cable	1	1.5	N	0	Supplied by applicant
2	Audio cable	1	0.5	N	0	Supplied by applicant
3	DC cable	1	1.9	N	0	Provided by Lab
4	AC cable	1	0.8	N	0	Provided by Lab
5	DC cable	1	1.5	N	1	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Solvang Technology	STI02-3310-10	STI02-3310-10_013	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1339443	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	2024/7/29	2025/7/28

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/5

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Solvang Technology	STI02-3310-10	STI02-3310-10_013	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/5

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/5

4.4 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance LYNICS	0900510	E1-011284	2024/9/16	2025/9/15
		E1-011285	2024/9/25	2025/9/24
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01422	2025/5/2	2026/5/1
EMI Test Receiver R&S	ESR3	102413	2025/1/22	2026/1/21
Fixed Attenuator EMEC	EM-ATT30002602NN	N/A	2025/3/21	2026/3/20
Fixed Attenuator STI	STI02-2200-10	NO.3	2024/10/19	2025/10/18
High Voltage Probe Schwarzbeck	TK9420	00982	2024/12/6	2025/12/5
Highpass filter EMCI	150HPF-ME	114005	2025/5/2	2026/5/1
		114006	2025/5/2	2026/5/1
	150HPF-MF	113009	2025/5/2	2026/5/1
LISN R&S	ENV216	101196	2025/5/19	2026/5/18
	ESH3-Z5	100220	2024/11/21	2025/11/20
LISN Schwarzbeck	NNLK 8121	8121-00759	2024/8/20	2025/8/19
		8121-808	2025/4/23	2026/4/22
	NNLK 8129	00624	2024/10/9	2025/10/8
		8129229	2024/10/14	2025/10/13
RF Coaxial Cable PEWC	5D-FB	Cable-CO3-01	2024/9/12	2025/9/11
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 3.
2. Tested Date: 2025/6/14

4.5 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2024/10/9	2025/10/8
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
MXE EMI Receiver Agilent	N9038A	MY50010158	2024/10/11	2025/10/10
Preamplifier Agilent	8447D	2944A11064	2025/2/14	2026/2/13
Preamplifier EMCI	EMC001340	980269	2024/6/25	2025/6/24
Radiating Loop Antenna TESEQ	RLA 6120-20	80002	2024/7/30	2025/7/29
RF Coaxial Cable Pacfic	8D-FB	Cable-CH6-02	2024/6/25	2025/6/24
Signal Analyzer R&S	FSV40	101544	2024/6/20	2025/6/19
Software BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/6/12

4.6 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier Agilent	83017A	MY39501357	2024/6/12	2025/6/11
Preamplifier EMCI	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210103	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201241	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201244	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/5/28 ~ 2025/5/29

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.	

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 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.

5.5 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).

5.6 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:

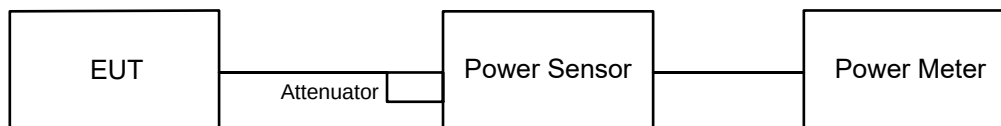
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

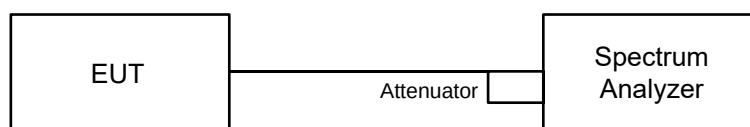


6.1.2 Test Procedure

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

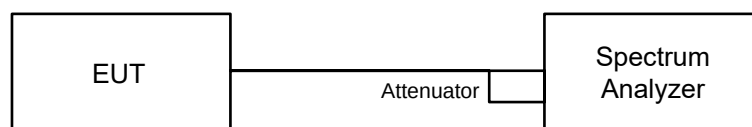
For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz,
- Detector = RMS or sample detector mode
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.3 6 dB Bandwidth

6.3.1 Test Setup

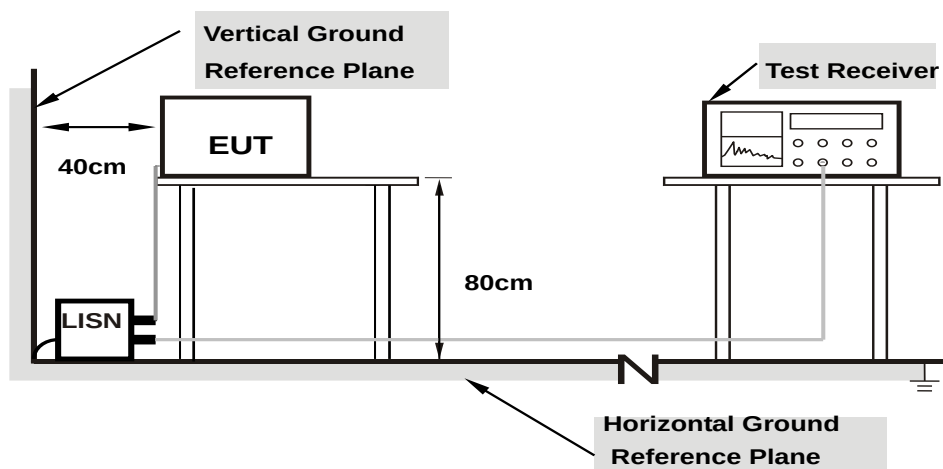


6.3.2 Test Procedure

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 AC Power Conducted Emissions

6.4.1 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).

6.4.2 Test Procedure

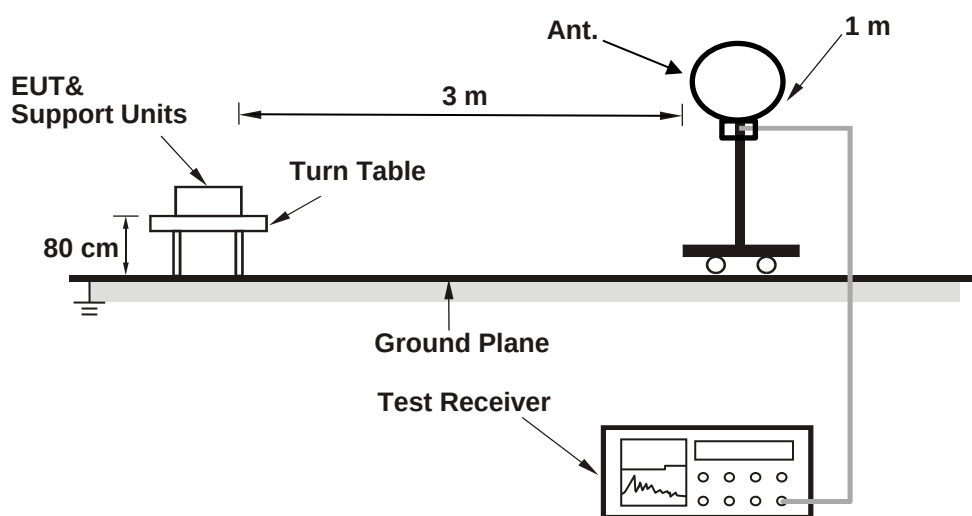
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

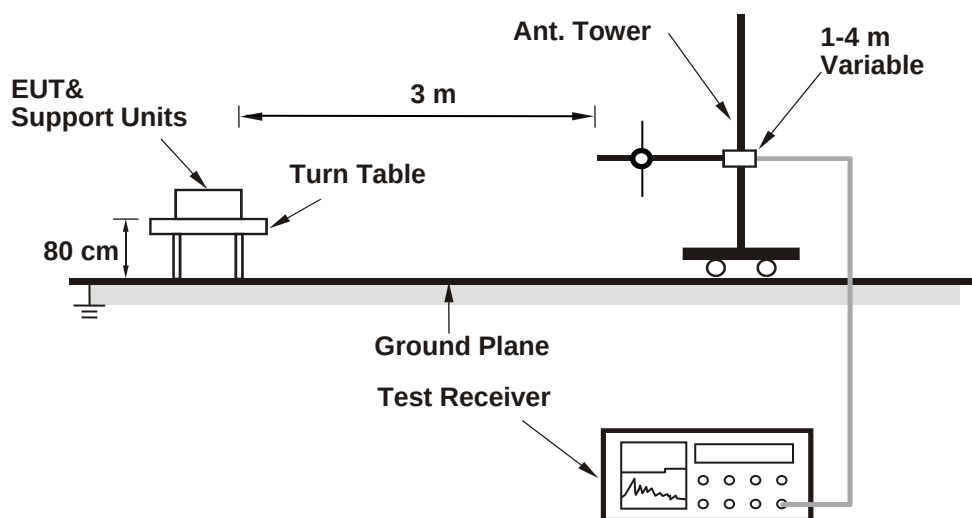
6.5 Unwanted Emissions below 1 GHz

6.5.1 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).

6.5.2 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

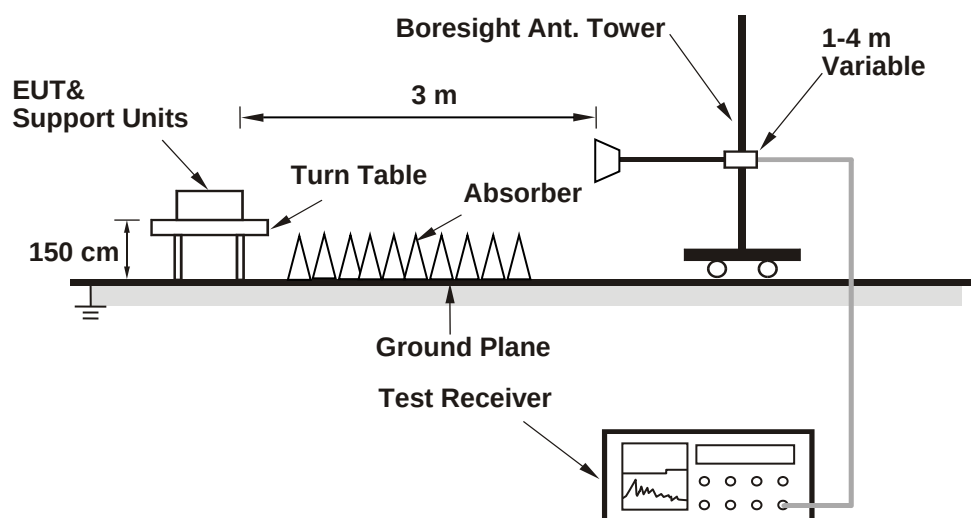
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.6 Unwanted Emissions above 1 GHz

6.6.1 Test Setup



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

6.6.2 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:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	34.435	15.37	2.89	66.988	18.26	30	Pass
173	5865	38.107	15.81	2.89	74.132	18.7	30	Pass
177	5885	37.411	15.73	2.89	72.778	18.62	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	46.452	16.67	2.89	90.366	19.56	30	Pass
173	5865	46.774	16.70	2.89	90.992	19.59	30	Pass
177	5885	18.45	12.66	2.89	35.892	15.55	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	65.917	18.19	2.89	128.232	21.08	30	Pass
175	5875	67.298	18.28	2.89	130.919	21.17	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	38.548	15.86	2.89	74.99	18.75	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	47.534	16.77	2.89	92.471	19.66	30	Pass
173	5865	47.863	16.80	2.89	93.111	19.69	30	Pass
177	5885	18.75	12.73	2.89	36.476	15.62	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	67.143	18.27	2.89	130.617	21.16	30	Pass
175	5875	68.391	18.35	2.89	133.045	21.24	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	38.994	15.91	2.89	75.857	18.8	30	Pass

Note: The antenna gain is 2.89 dBi.

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

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	34.514	15.38	2.89	67.142	18.27	30	Pass
173	5865	33.037	15.19	2.89	64.269	18.08	30	Pass
177	5885	32.734	15.15	2.89	63.679	18.04	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	40.926	16.12	2.89	79.616	19.01	30	Pass
173	5865	40.458	16.07	2.89	78.705	18.96	30	Pass
177	5885	39.902	16.01	2.89	77.624	18.9	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	57.943	17.63	2.89	112.72	20.52	30	Pass
175	5875	58.884	17.70	2.89	114.551	20.59	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	45.499	16.58	2.89	88.512	19.47	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	41.879	16.22	2.89	81.47	19.11	30	Pass
173	5865	41.4	16.17	2.89	80.538	19.06	30	Pass
177	5885	40.551	16.08	2.89	78.886	18.97	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	59.02	17.71	2.89	114.815	20.6	30	Pass
175	5875	59.841	17.77	2.89	116.412	20.66	30	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	46.559	16.68	2.89	90.574	19.57	30	Pass

Note: The antenna gain is 2.89 dBi.

7.2 Power Spectral Density

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	-0.49	2.89	2.4	14	Pass
173	5865	0.29	2.89	3.18	14	Pass
177	5885	0.34	2.89	3.23	14	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	1.02	2.89	3.91	14	Pass
173	5865	0.88	2.89	3.77	14	Pass
177	5885	-2.90	2.89	-0.01	14	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
167	5835	-0.38	2.89	2.51	14	Pass
175	5875	-0.62	2.89	2.27	14	Pass

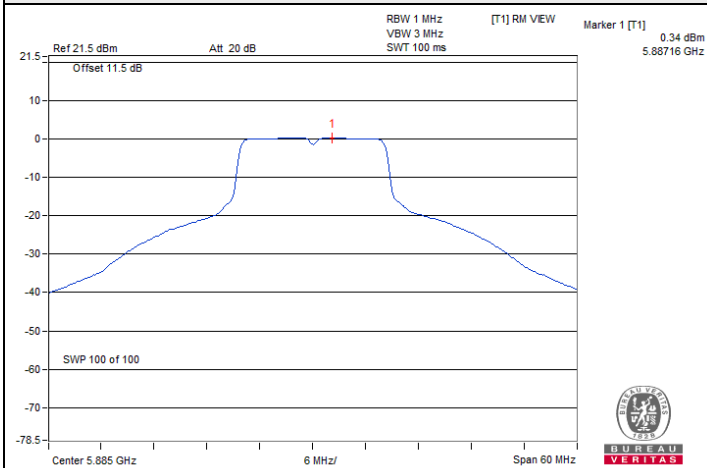
Note: The antenna gain is 2.89 dBi.

802.11ax (HE80)

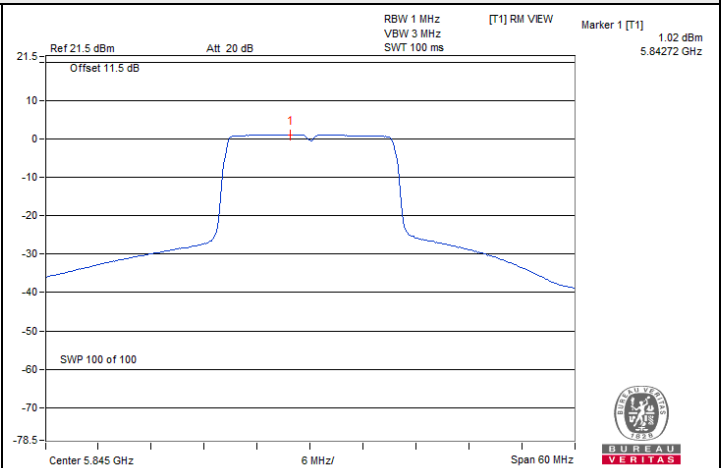
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
171	5855	-5.53	2.89	-2.64	14	Pass

Note: The antenna gain is 2.89 dBi.

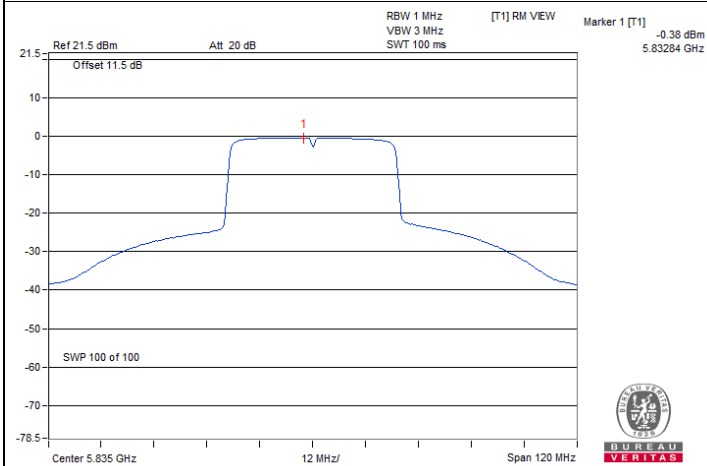
Spectrum Plot of Maximum Value



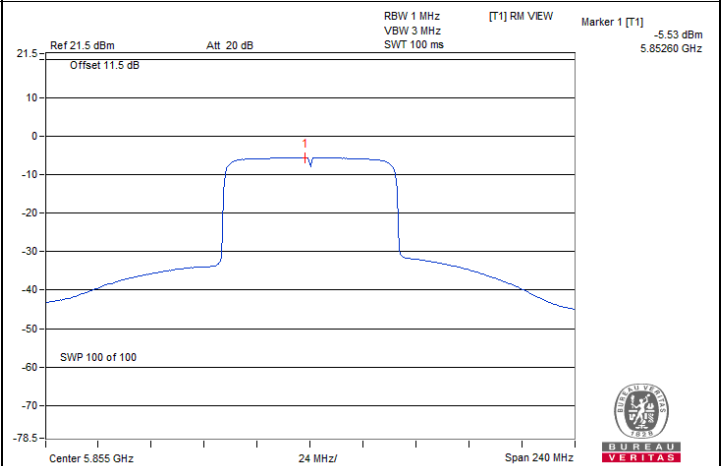
802.11a : CH 177



802.11ax (HE20) : CH 169



802.11ax (HE40) : CH 167



802.11ax (HE80) : CH 171

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	-0.07	2.89	2.82	14	Pass
173	5865	-0.15	2.89	2.74	14	Pass
177	5885	-0.03	2.89	2.86	14	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	0.30	2.89	3.19	14	Pass
173	5865	0.21	2.89	3.1	14	Pass
177	5885	0.12	2.89	3.01	14	Pass

Note: The antenna gain is 2.89 dBi.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
167	5835	-1.04	2.89	1.85	14	Pass
175	5875	-1.02	2.89	1.87	14	Pass

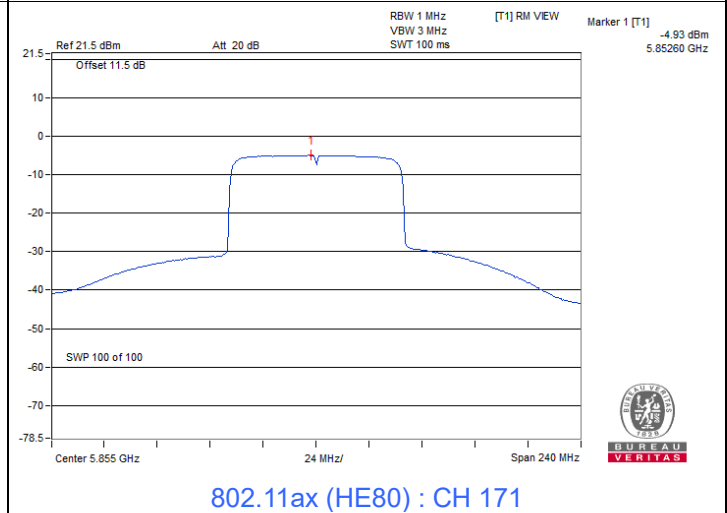
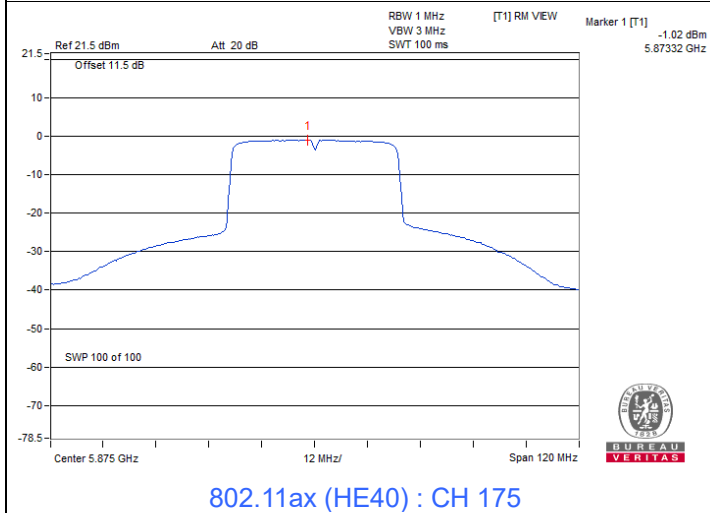
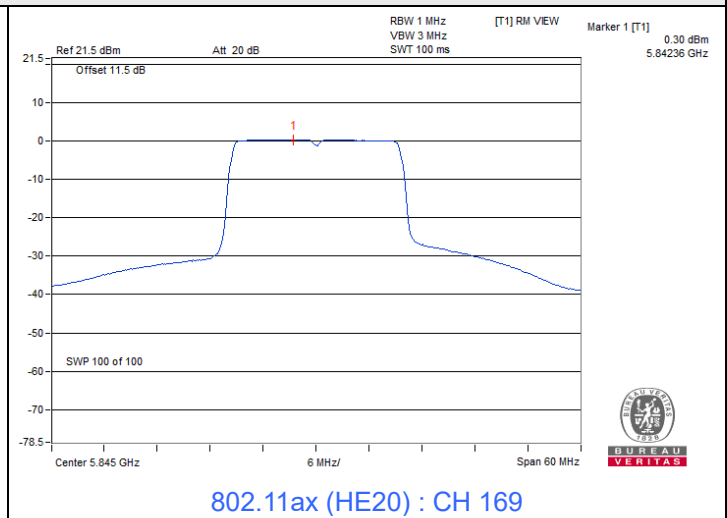
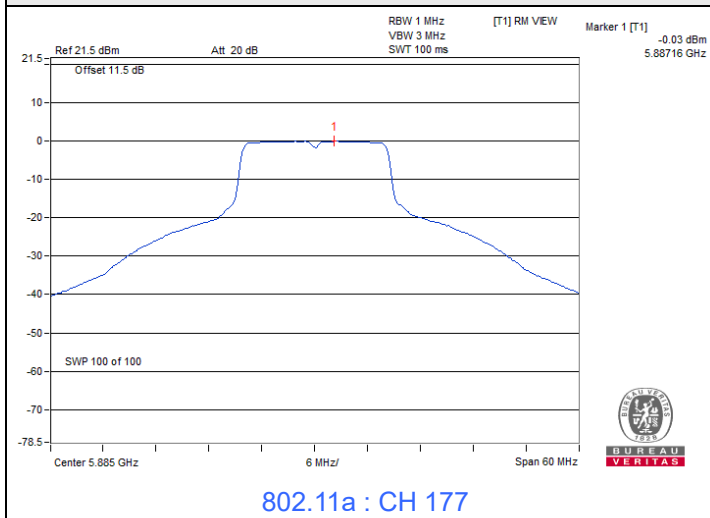
Note: The antenna gain is 2.89 dBi.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
171	5855	-4.93	2.89	-2.04	14	Pass

Note: The antenna gain is 2.89 dBi.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

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

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	16.44	0.5	Pass
173	5865	16.44	0.5	Pass
177	5885	16.45	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	19.17	0.5	Pass
173	5865	19.19	0.5	Pass
177	5885	19.17	0.5	Pass

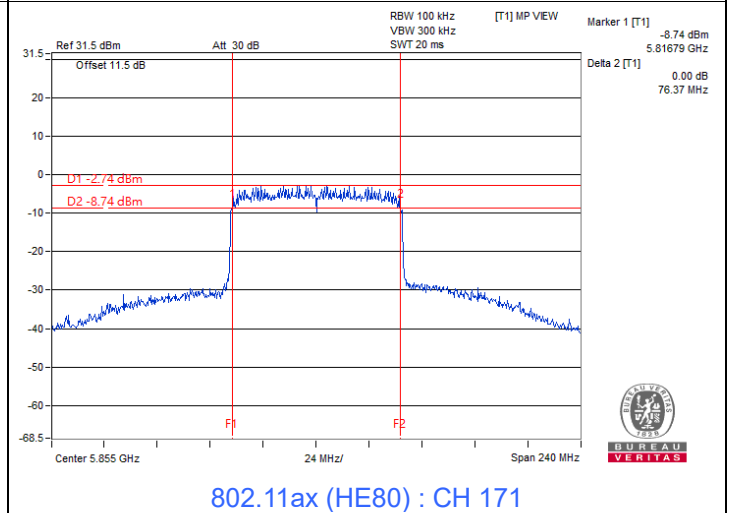
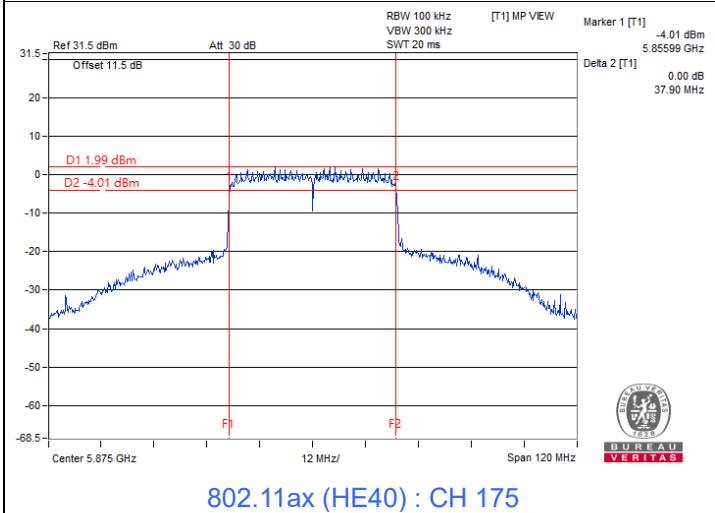
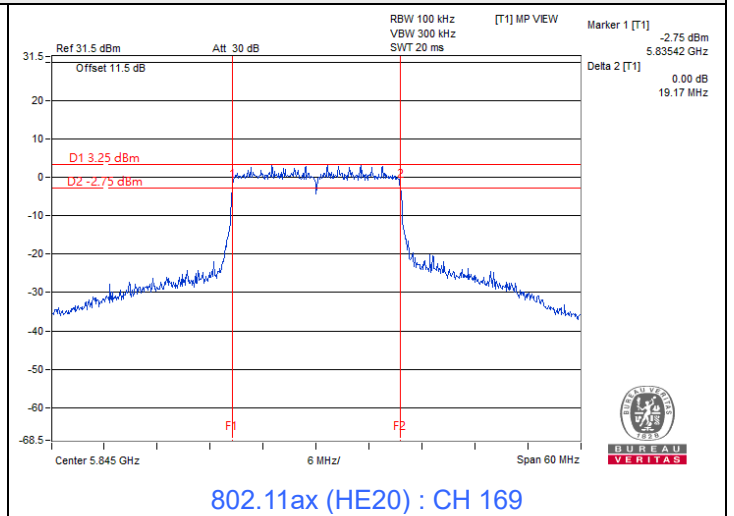
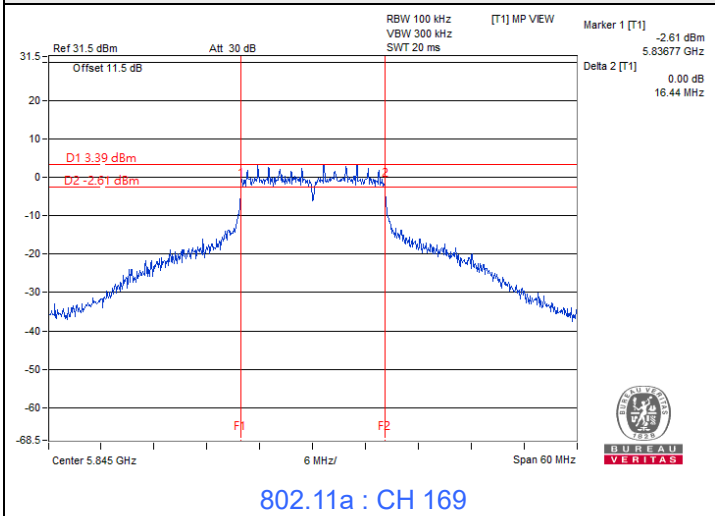
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
167	5835	37.95	0.5	Pass
175	5875	37.9	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
171	5855	76.37	0.5	Pass

Spectrum Plot of Minimum Value



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

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	16.42	0.5	Pass
173	5865	16.44	0.5	Pass
177	5885	16.43	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	19.16	0.5	Pass
173	5865	19.18	0.5	Pass
177	5885	19.14	0.5	Pass

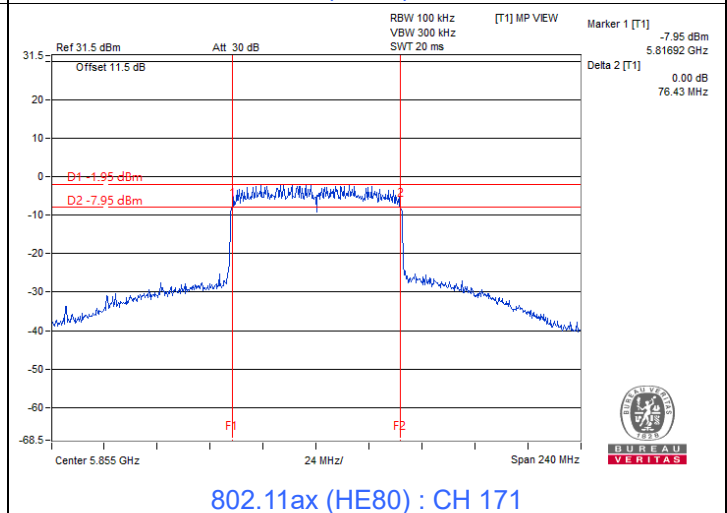
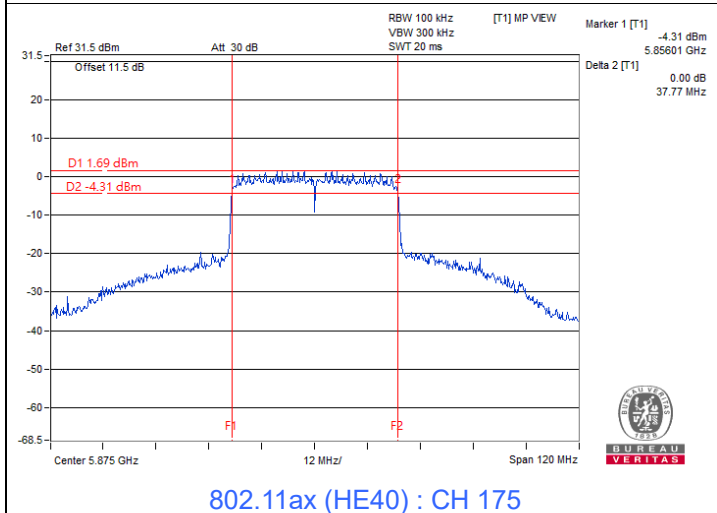
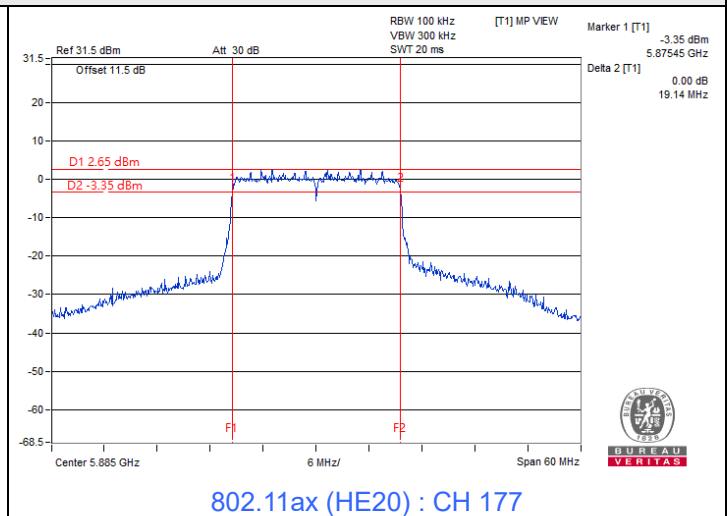
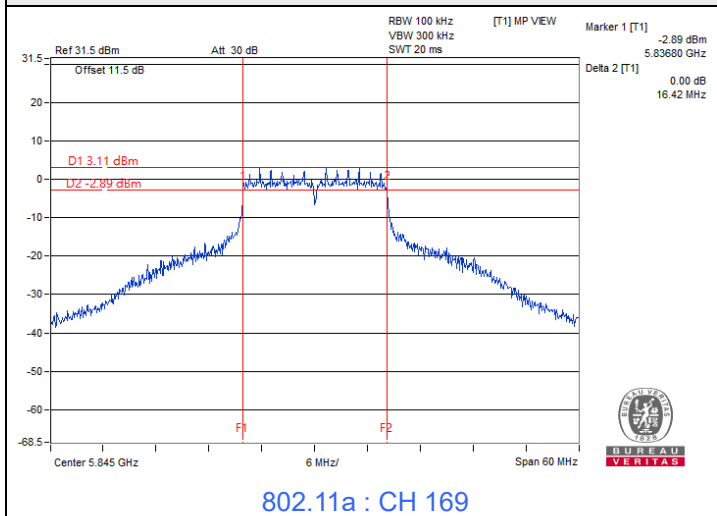
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
167	5835	37.98	0.5	Pass
175	5875	37.77	0.5	Pass

802.11ax (HE80)

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

Spectrum Plot of Minimum Value



7.4 AC Power Conducted Emissions

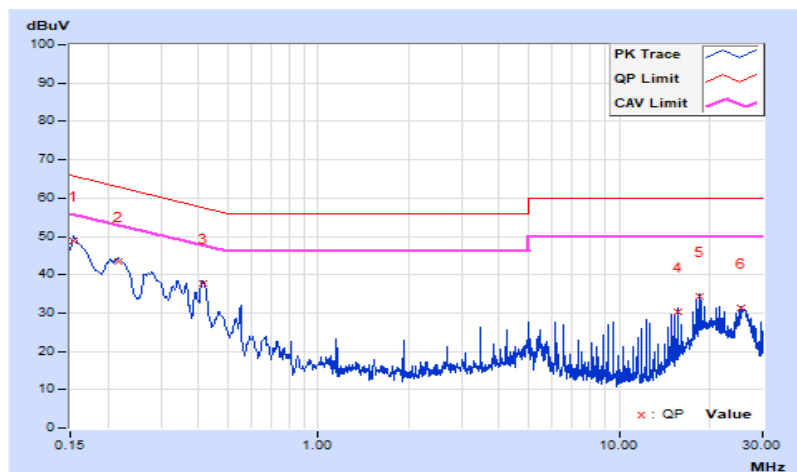
Mode A

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 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	Jed Wu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	8.80	40.06	32.83	48.86	41.63	65.78	55.78	-16.92	-14.15
2	0.21576	8.76	34.83	26.84	43.59	35.60	62.98	52.98	-19.39	-17.38
3	0.41253	8.70	28.88	25.22	37.58	33.92	57.60	47.60	-20.02	-13.68
4	15.74400	9.00	21.37	19.89	30.37	28.89	60.00	50.00	-29.63	-21.11
5	18.43200	9.06	25.17	24.14	34.23	33.20	60.00	50.00	-25.77	-16.80
6	25.34400	9.19	22.24	17.60	31.43	26.79	60.00	50.00	-28.57	-23.21

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

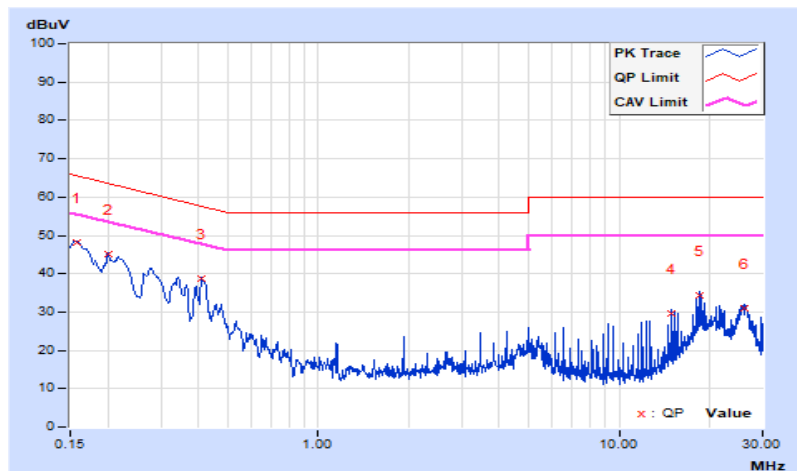


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15687	8.79	39.34	32.18	48.13	40.97	65.63	55.63	-17.50	-14.66
2	0.19989	8.76	36.29	28.51	45.05	37.27	63.62	53.62	-18.57	-16.35
3	0.40800	8.70	30.12	23.01	38.82	31.71	57.69	47.69	-18.87	-15.98
4	14.97600	8.96	20.79	19.31	29.75	28.27	60.00	50.00	-30.25	-21.73
5	18.43200	9.03	25.47	24.48	34.50	33.51	60.00	50.00	-25.50	-16.49
6	26.07600	9.21	21.66	16.61	30.87	25.82	60.00	50.00	-29.13	-24.18

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



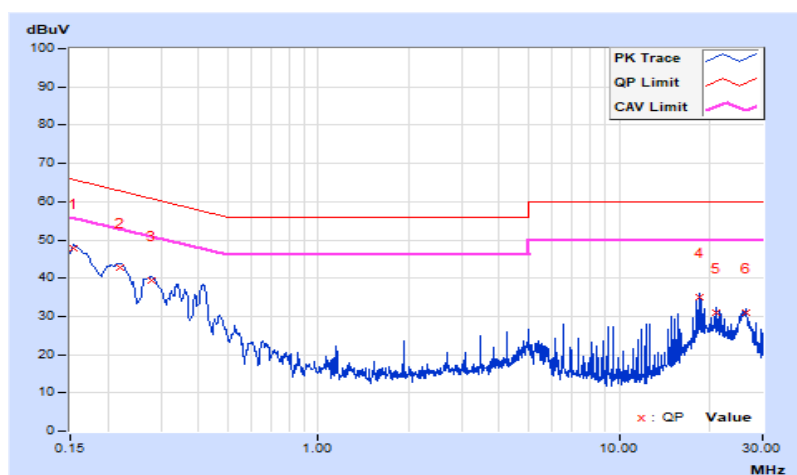
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 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	Jed Wu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	8.80	38.93	31.60	47.73	40.40	65.78	55.78	-18.05	-15.38
2	0.22000	8.76	33.96	25.66	42.72	34.42	62.82	52.82	-20.10	-18.40
3	0.27786	8.74	30.76	23.19	39.50	31.93	60.88	50.88	-21.38	-18.95
4	18.43200	9.06	25.98	23.98	35.04	33.04	60.00	50.00	-24.96	-16.96
5	21.12000	9.11	21.73	18.14	30.84	27.25	60.00	50.00	-29.16	-22.75
6	26.36400	9.21	21.81	16.96	31.02	26.17	60.00	50.00	-28.98	-23.83

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

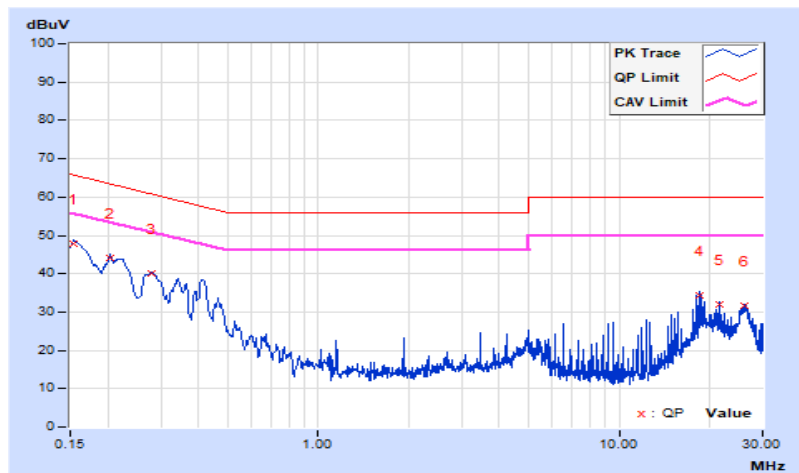


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	8.80	39.04	31.55	47.84	40.35	65.78	55.78	-17.94	-15.43
2	0.20400	8.76	35.42	26.98	44.18	35.74	63.45	53.45	-19.27	-17.71
3	0.27859	8.74	31.27	23.66	40.01	32.40	60.86	50.86	-20.85	-18.46
4	18.43200	9.03	25.40	24.33	34.43	33.36	60.00	50.00	-25.57	-16.64
5	21.50400	9.10	23.05	19.89	32.15	28.99	60.00	50.00	-27.85	-21.01
6	25.93200	9.21	22.39	17.52	31.60	26.73	60.00	50.00	-28.40	-23.27

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



7.5 Unwanted Emissions below 1 GHz

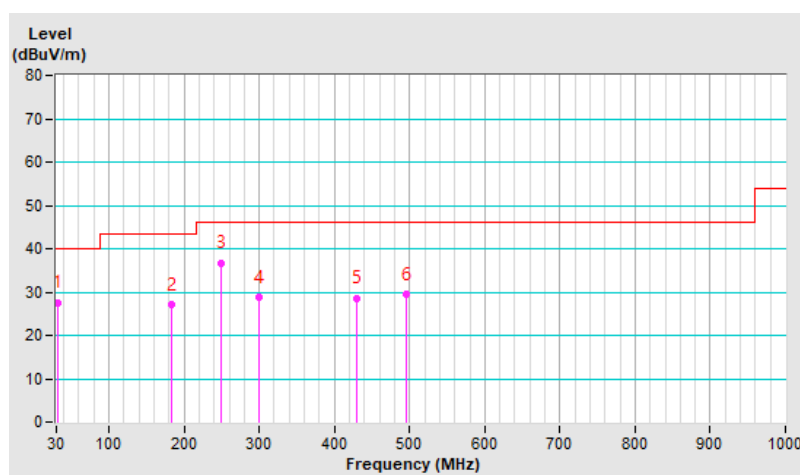
Mode A

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.50	27.4 QP	40.0	-12.6	1.59 H	360	38.0	-10.6
2	183.79	27.0 QP	43.5	-16.5	1.46 H	199	36.4	-9.4
3	250.00	36.7 QP	46.0	-9.3	1.73 H	189	44.4	-7.7
4	300.00	28.7 QP	46.0	-17.3	1.86 H	310	34.3	-5.6
5	430.12	28.4 QP	46.0	-17.6	1.20 H	352	31.0	-2.6
6	494.97	29.4 QP	46.0	-16.6	1.17 H	360	30.8	-1.4

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

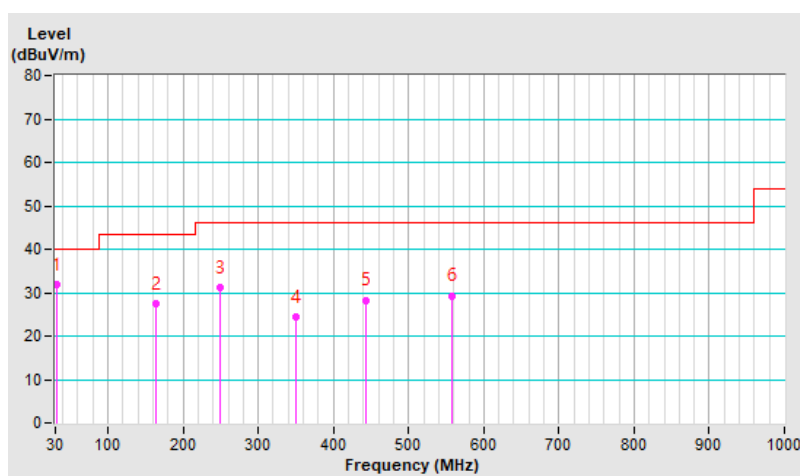


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	31.45	31.7 QP	40.0	-8.3	1.21 V	328	42.3	-10.6
2	163.33	27.3 QP	43.5	-16.2	1.35 V	175	35.1	-7.8
3	250.00	31.1 QP	46.0	-14.9	1.42 V	212	38.8	-7.7
4	350.00	24.3 QP	46.0	-21.7	1.70 V	216	28.9	-4.6
5	442.54	28.3 QP	46.0	-17.7	1.69 V	145	30.6	-2.3
6	557.49	29.1 QP	46.0	-16.9	1.88 V	187	29.5	-0.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



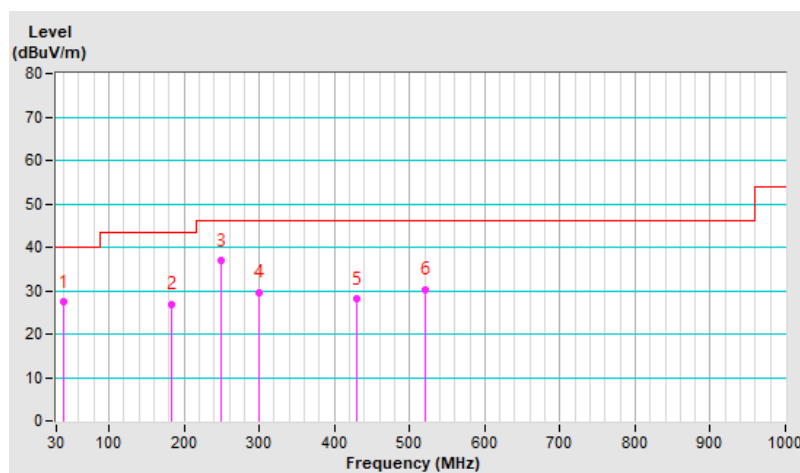
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.73	27.3 QP	40.0	-12.7	1.69 H	22	37.1	-9.8
2	184.18	26.8 QP	43.5	-16.7	1.52 H	192	36.3	-9.5
3	250.00	36.8 QP	46.0	-9.2	1.43 H	192	44.5	-7.7
4	300.00	29.5 QP	46.0	-16.5	1.27 H	141	35.1	-5.6
5	430.12	28.0 QP	46.0	-18.0	1.13 H	354	30.6	-2.6
6	520.48	30.3 QP	46.0	-15.7	1.30 H	342	31.4	-1.1

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

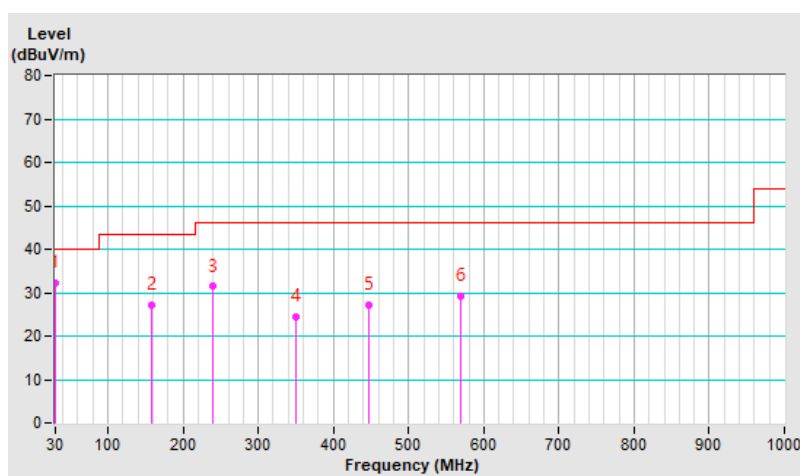


RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	30.00	32.2 QP	40.0	-7.8	1.24 V	0	42.6	-10.4
2	158.72	27.1 QP	43.5	-16.4	1.35 V	159	34.8	-7.7
3	240.00	31.4 QP	46.0	-14.6	1.16 V	303	39.7	-8.3
4	350.00	24.5 QP	46.0	-21.5	1.78 V	344	29.1	-4.6
5	446.47	27.1 QP	46.0	-18.9	1.06 V	360	29.4	-2.3
6	569.22	29.1 QP	46.0	-16.9	1.98 V	246	29.0	0.1

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



7.6 Unwanted Emissions above 1 GHz

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.7 PK	68.2	-11.5	1.64 H	74	51.5	5.2
2	*5845.00	112.1 PK			1.64 H	74	68.7	43.4
3	*5845.00	103.3 AV			1.64 H	74	59.9	43.4
4	#5895.00	61.0 PK	90.2	-29.2	1.64 H	74	55.1	5.9
5	#5925.00	56.3 PK	68.2	-11.9	1.64 H	74	50.4	5.9
6	11690.00	64.2 PK	74.0	-9.8	1.77 H	304	52.5	11.7
7	11690.00	50.2 AV	54.0	-3.8	1.77 H	304	38.5	11.7

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	#5650.00	56.2 PK	68.2	-12.0	1.33 V	300	51.0	5.2
2	*5845.00	108.0 PK			1.33 V	300	64.6	43.4
3	*5845.00	99.4 AV			1.33 V	300	56.0	43.4
4	#5895.00	60.2 PK	90.2	-30.0	1.33 V	300	54.3	5.9
5	#5925.00	57.3 PK	68.2	-10.9	1.33 V	300	51.4	5.9
6	11690.00	60.3 PK	74.0	-13.7	1.00 V	172	48.6	11.7
7	11690.00	48.0 AV	54.0	-6.0	1.00 V	172	36.3	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.9 PK	68.2	-11.3	1.65 H	73	51.7	5.2
2	*5865.00	111.9 PK			1.65 H	73	68.4	43.5
3	*5865.00	103.1 AV			1.65 H	73	59.6	43.5
4	#5895.00	77.7 PK	90.2	-12.5	1.65 H	73	71.8	5.9
5	#5925.00	56.5 PK	68.2	-11.7	1.65 H	73	50.6	5.9
6	11730.00	64.5 PK	74.0	-9.5	1.79 H	300	52.8	11.7
7	11730.00	50.5 AV	54.0	-3.5	1.79 H	300	38.8	11.7
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	#5650.00	56.1 PK	68.2	-12.1	1.34 V	301	50.9	5.2
2	*5865.00	108.5 PK			1.34 V	301	65.0	43.5
3	*5865.00	99.9 AV			1.34 V	301	56.4	43.5
4	#5895.00	75.7 PK	90.2	-14.5	1.34 V	301	69.8	5.9
5	#5925.00	57.5 PK	68.2	-10.7	1.34 V	301	51.6	5.9
6	11730.00	60.7 PK	74.0	-13.3	1.03 V	169	49.0	11.7
7	11730.00	48.2 AV	54.0	-5.8	1.03 V	169	36.5	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.1 PK	68.2	-11.1	1.73 H	75	51.9	5.2
2	*5885.00	111.2 PK			1.73 H	75	67.7	43.5
3	*5885.00	102.9 AV			1.73 H	75	59.4	43.5
4	#5895.00	98.9 PK	110.2	-11.3	1.73 H	75	93.0	5.9
5	#5895.00	82.7 AV	90.2	-7.5	1.73 H	75	76.8	5.9
6	#5925.00	62.3 PK	88.2	-25.9	1.73 H	75	56.4	5.9
7	#5925.00	46.4 AV	68.2	-21.8	1.73 H	75	40.5	5.9
8	11770.00	64.4 PK	74.0	-9.6	1.72 H	312	52.7	11.7
9	11770.00	50.1 AV	54.0	-3.9	1.72 H	312	38.4	11.7

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	#5650.00	56.6 PK	68.2	-11.6	1.32 V	300	51.4	5.2
2	*5885.00	108.4 PK			1.32 V	300	64.9	43.5
3	*5885.00	100.2 AV			1.32 V	300	56.7	43.5
4	#5895.00	95.5 PK	110.2	-14.7	1.32 V	300	89.6	5.9
5	#5895.00	79.7 AV	90.2	-10.5	1.32 V	300	73.8	5.9
6	#5925.00	64.5 PK	88.2	-23.7	1.32 V	300	58.6	5.9
7	#5925.00	47.4 AV	68.2	-20.8	1.32 V	300	41.5	5.9
8	11770.00	60.9 PK	74.0	-13.1	1.02 V	172	49.2	11.7
9	11770.00	48.5 AV	54.0	-5.5	1.02 V	172	36.8	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.8 PK	68.2	-11.4	1.75 H	82	51.6	5.2
2	*5845.00	114.9 PK			1.75 H	82	71.5	43.4
3	*5845.00	102.0 AV			1.75 H	82	58.6	43.4
4	#5895.00	70.4 PK	90.2	-19.8	1.75 H	82	64.5	5.9
5	#5925.00	56.9 PK	68.2	-11.3	1.75 H	82	51.0	5.9
6	11690.00	64.0 PK	74.0	-10.0	1.70 H	300	52.3	11.7
7	11690.00	50.0 AV	54.0	-4.0	1.70 H	300	38.3	11.7
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	#5650.00	55.9 PK	68.2	-12.3	1.34 V	301	50.7	5.2
2	*5845.00	112.1 PK			1.34 V	301	68.7	43.4
3	*5845.00	98.9 AV			1.34 V	301	55.5	43.4
4	#5895.00	67.7 PK	90.2	-22.5	1.34 V	301	61.8	5.9
5	#5925.00	57.3 PK	68.2	-10.9	1.34 V	301	51.4	5.9
6	11690.00	60.5 PK	74.0	-13.5	1.01 V	166	48.8	11.7
7	11690.00	48.1 AV	54.0	-5.9	1.01 V	166	36.4	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.7 PK	68.2	-11.5	1.68 H	76	51.5	5.2
2	*5865.00	114.3 PK			1.68 H	76	70.8	43.5
3	*5865.00	101.3 AV			1.68 H	76	57.8	43.5
4	#5895.00	76.9 PK	90.2	-13.3	1.68 H	76	71.0	5.9
5	#5925.00	56.5 PK	68.2	-11.7	1.68 H	76	50.6	5.9
6	11730.00	64.0 PK	74.0	-10.0	1.70 H	305	52.3	11.7
7	11730.00	50.5 AV	54.0	-3.5	1.70 H	305	38.8	11.7
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	#5650.00	56.0 PK	68.2	-12.2	1.35 V	297	50.8	5.2
2	*5865.00	107.9 PK			1.35 V	297	64.4	43.5
3	*5865.00	95.3 AV			1.35 V	297	51.8	43.5
4	#5895.00	68.0 PK	90.2	-22.2	1.35 V	297	62.1	5.9
5	#5925.00	57.4 PK	68.2	-10.8	1.35 V	297	51.5	5.9
6	11730.00	61.0 PK	74.0	-13.0	1.00 V	172	49.3	11.7
7	11730.00	48.5 AV	54.0	-5.5	1.00 V	172	36.8	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.7 PK	68.2	-11.5	1.81 H	72	51.5	5.2
2	*5885.00	111.0 PK			1.81 H	72	67.5	43.5
3	*5885.00	97.9 AV			1.81 H	72	54.4	43.5
4	#5895.00	101.9 PK	110.2	-8.3	1.81 H	72	96.0	5.9
5	#5895.00	89.7 AV	90.2	-0.5	1.81 H	72	83.8	5.9
6	#5925.00	69.2 PK	88.2	-19.0	1.81 H	72	63.3	5.9
7	#5925.00	51.2 AV	68.2	-17.0	1.81 H	72	45.3	5.9
8	11770.00	64.2 PK	74.0	-9.8	1.73 H	311	52.5	11.7
9	11770.00	50.0 AV	54.0	-4.0	1.73 H	311	38.3	11.7
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	#5650.00	55.6 PK	68.2	-12.6	1.34 V	301	50.4	5.2
2	*5885.00	108.9 PK			1.34 V	301	65.4	43.5
3	*5885.00	95.6 AV			1.34 V	301	52.1	43.5
4	#5895.00	100.2 PK	110.2	-10.0	1.34 V	301	94.3	5.9
5	#5895.00	87.2 AV	90.2	-3.0	1.34 V	301	81.3	5.9
6	#5925.00	69.8 PK	88.2	-18.4	1.34 V	301	63.9	5.9
7	#5925.00	53.3 AV	68.2	-14.9	1.34 V	301	47.4	5.9
8	11770.00	61.1 PK	74.0	-12.9	1.01 V	175	49.4	11.7
9	11770.00	48.5 AV	54.0	-5.5	1.01 V	175	36.8	11.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.5 PK	68.2	-11.7	1.80 H	80	51.3	5.2
2	*5835.00	114.6 PK			1.80 H	80	71.2	43.4
3	*5835.00	101.2 AV			1.80 H	80	57.8	43.4
4	#5895.00	80.4 PK	110.2	-29.8	1.80 H	80	74.5	5.9
5	#5895.00	62.0 AV	90.2	-28.2	1.80 H	80	56.1	5.9
6	#5925.00	73.5 PK	88.2	-14.7	1.80 H	80	67.6	5.9
7	#5925.00	53.2 AV	68.2	-15.0	1.80 H	80	47.3	5.9
8	11670.00	64.1 PK	74.0	-9.9	1.72 H	306	52.4	11.7
9	11670.00	50.2 AV	54.0	-3.8	1.72 H	306	38.5	11.7

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	#5650.00	56.0 PK	68.2	-12.2	1.35 V	300	50.8	5.2
2	*5835.00	110.0 PK			1.35 V	300	66.6	43.4
3	*5835.00	97.7 AV			1.35 V	300	54.3	43.4
4	#5895.00	75.2 PK	110.2	-35.0	1.35 V	300	69.3	5.9
5	#5895.00	57.3 AV	90.2	-32.9	1.35 V	300	51.4	5.9
6	#5925.00	68.7 PK	88.2	-19.5	1.35 V	300	62.8	5.9
7	#5925.00	49.5 AV	68.2	-18.7	1.35 V	300	43.6	5.9
8	11670.00	60.8 PK	74.0	-13.2	1.06 V	180	49.1	11.7
9	11670.00	48.1 AV	54.0	-5.9	1.06 V	180	36.4	11.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.7 PK	68.2	-11.5	1.79 H	81	51.5	5.2
2	*5875.00	114.3 PK			1.79 H	81	70.8	43.5
3	*5875.00	100.7 AV			1.79 H	81	57.2	43.5
4	#5895.00	99.9 PK	110.2	-10.3	1.79 H	81	94.0	5.9
5	#5895.00	83.0 AV	90.2	-7.2	1.79 H	81	77.1	5.9
6	#5925.00	81.2 PK	88.2	-7.0	1.79 H	81	75.3	5.9
7	#5925.00	65.2 AV	68.2	-3.0	1.79 H	81	59.3	5.9
8	11750.00	64.2 PK	74.0	-9.8	1.71 H	313	52.5	11.7
9	11750.00	50.5 AV	54.0	-3.5	1.71 H	313	38.8	11.7

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	#5650.00	55.7 PK	68.2	-12.5	1.37 V	300	50.5	5.2
2	*5875.00	110.9 PK			1.37 V	300	67.4	43.5
3	*5875.00	97.7 AV			1.37 V	300	54.2	43.5
4	#5895.00	93.0 PK	110.2	-17.2	1.37 V	300	87.1	5.9
5	#5895.00	76.9 AV	90.2	-13.3	1.37 V	300	71.0	5.9
6	#5925.00	78.2 PK	88.2	-10.0	1.37 V	300	72.3	5.9
7	#5925.00	60.0 AV	68.2	-8.2	1.37 V	300	54.1	5.9
8	11750.00	60.7 PK	74.0	-13.3	1.00 V	183	49.0	11.7
9	11750.00	48.2 AV	54.0	-5.8	1.00 V	183	36.5	11.7

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	67.5 PK	68.2	-0.7	1.71 H	74	62.3	5.2
2	*5855.00	110.3 PK			1.71 H	74	66.8	43.5
3	*5855.00	96.8 AV			1.71 H	74	53.3	43.5
4	#5895.00	95.9 PK	110.2	-14.3	1.71 H	74	90.0	5.9
5	#5895.00	77.4 AV	90.2	-12.8	1.71 H	74	71.5	5.9
6	#5925.00	83.4 PK	88.2	-4.8	1.71 H	74	77.5	5.9
7	#5925.00	67.7 AV	68.2	-0.5	1.71 H	74	61.8	5.9
8	11710.00	64.2 PK	74.0	-9.8	1.75 H	311	52.5	11.7
9	11710.00	50.1 AV	54.0	-3.9	1.75 H	311	38.4	11.7

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	#5650.00	57.8 PK	68.2	-10.4	1.69 V	296	52.6	5.2
2	*5855.00	102.3 PK			1.69 V	296	58.8	43.5
3	*5855.00	89.9 AV			1.69 V	296	46.4	43.5
4	#5895.00	84.9 PK	110.2	-25.3	1.69 V	296	79.0	5.9
5	#5895.00	69.3 AV	90.2	-20.9	1.69 V	296	63.4	5.9
6	#5925.00	75.5 PK	88.2	-12.7	1.69 V	296	69.6	5.9
7	#5925.00	60.2 AV	68.2	-8.0	1.69 V	296	54.3	5.9
8	11710.00	60.7 PK	74.0	-13.3	1.00 V	177	49.0	11.7
9	11710.00	48.2 AV	54.0	-5.8	1.00 V	177	36.5	11.7

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.

Mode B

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	55.6 PK	68.2	-12.6	2.87 H	117	50.4	5.2
2	*5845.00	109.3 PK			2.87 H	117	65.9	43.4
3	*5845.00	100.7 AV			2.87 H	117	57.3	43.4
4	#5925.00	56.6 PK	68.2	-11.6	2.87 H	117	50.7	5.9
5	11690.00	58.8 PK	74.0	-15.2	2.15 H	176	47.1	11.7
6	11690.00	45.6 AV	54.0	-8.4	2.15 H	176	33.9	11.7
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	#5650.00	55.8 PK	68.2	-12.4	2.75 V	126	50.6	5.2
2	*5845.00	112.9 PK			2.75 V	126	69.5	43.4
3	*5845.00	104.3 AV			2.75 V	126	60.9	43.4
4	#5925.00	57.3 PK	68.2	-10.9	2.75 V	126	51.4	5.9
5	11690.00	59.6 PK	74.0	-14.4	1.46 V	39	47.9	11.7
6	11690.00	46.5 AV	54.0	-7.5	1.46 V	39	34.8	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	55.5 PK	68.2	-12.7	2.81 H	111	50.3	5.2
2	*5865.00	109.2 PK			2.81 H	111	65.7	43.5
3	*5865.00	100.6 AV			2.81 H	111	57.1	43.5
4	#5925.00	57.0 PK	68.2	-11.2	2.81 H	111	51.1	5.9
5	11730.00	58.9 PK	74.0	-15.1	2.19 H	174	47.2	11.7
6	11730.00	45.9 AV	54.0	-8.1	2.19 H	174	34.2	11.7
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	#5650.00	55.9 PK	68.2	-12.3	2.70 V	125	50.7	5.2
2	*5865.00	112.6 PK			2.70 V	125	69.1	43.5
3	*5865.00	103.9 AV			2.70 V	125	60.4	43.5
4	#5925.00	58.2 PK	68.2	-10.0	2.70 V	125	52.3	5.9
5	11730.00	59.4 PK	74.0	-14.6	1.47 V	36	47.7	11.7
6	11730.00	46.4 AV	54.0	-7.6	1.47 V	36	34.7	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	61.0 PK	68.2	-7.2	2.89 H	112	55.8	5.2
2	*5885.00	109.1 PK			2.89 H	112	65.6	43.5
3	*5885.00	100.4 AV			2.89 H	112	56.9	43.5
4	#5895.00	93.2 PK	110.2	-17.0	2.89 H	112	87.3	5.9
5	#5895.00	77.4 AV	90.2	-12.8	2.89 H	112	71.5	5.9
6	#5925.00	62.8 PK	88.2	-25.4	2.89 H	112	56.9	5.9
7	#5925.00	46.2 AV	68.2	-22.0	2.89 H	112	40.3	5.9
8	11770.00	59.0 PK	74.0	-15.0	2.16 H	178	47.3	11.7
9	11770.00	45.9 AV	54.0	-8.1	2.16 H	178	34.2	11.7

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	#5650.00	62.6 PK	68.2	-5.6	2.75 V	125	57.4	5.2
2	*5885.00	112.4 PK			2.75 V	125	68.9	43.5
3	*5885.00	103.8 AV			2.75 V	125	60.3	43.5
4	#5895.00	95.9 PK	110.2	-14.3	2.75 V	125	90.0	5.9
5	#5895.00	80.2 AV	90.2	-10.0	2.75 V	125	74.3	5.9
6	#5925.00	65.7 PK	88.2	-22.5	2.75 V	125	59.8	5.9
7	#5925.00	47.5 AV	68.2	-20.7	2.75 V	125	41.6	5.9
8	11770.00	59.6 PK	74.0	-14.4	1.43 V	32	47.9	11.7
9	11770.00	46.4 AV	54.0	-7.6	1.43 V	32	34.7	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.0 PK	68.2	-12.2	2.82 H	113	50.8	5.2
2	*5845.00	111.0 PK			2.82 H	113	67.6	43.4
3	*5845.00	98.2 AV			2.82 H	113	54.8	43.4
4	#5925.00	57.6 PK	68.2	-10.6	2.82 H	113	51.7	5.9
5	11690.00	59.0 PK	74.0	-15.0	2.23 H	179	47.3	11.7
6	11690.00	45.7 AV	54.0	-8.3	2.23 H	179	34.0	11.7
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	#5650.00	56.5 PK	68.2	-11.7	2.77 V	126	51.3	5.2
2	*5845.00	114.5 PK			2.77 V	126	71.1	43.4
3	*5845.00	101.5 AV			2.77 V	126	58.1	43.4
4	#5925.00	59.8 PK	68.2	-8.4	2.77 V	126	53.9	5.9
5	11690.00	59.9 PK	74.0	-14.1	1.44 V	43	48.2	11.7
6	11690.00	46.6 AV	54.0	-7.4	1.44 V	43	34.9	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.1 PK	68.2	-12.1	2.80 H	119	50.9	5.2
2	*5865.00	111.0 PK			2.80 H	119	67.5	43.5
3	*5865.00	98.2 AV			2.80 H	119	54.7	43.5
4	#5925.00	62.3 PK	68.2	-5.9	2.80 H	119	56.4	5.9
5	11730.00	59.2 PK	74.0	-14.8	2.19 H	173	47.5	11.7
6	11730.00	46.0 AV	54.0	-8.0	2.19 H	173	34.3	11.7
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	#5650.00	57.5 PK	68.2	-10.7	2.70 V	125	52.3	5.2
2	*5865.00	114.2 PK			2.70 V	125	70.7	43.5
3	*5865.00	101.3 AV			2.70 V	125	57.8	43.5
4	#5925.00	64.5 PK	68.2	-3.7	2.70 V	125	58.6	5.9
5	11730.00	60.1 PK	74.0	-13.9	1.52 V	47	48.4	11.7
6	11730.00	46.6 AV	54.0	-7.4	1.52 V	47	34.9	11.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.9 PK	68.2	-8.3	2.84 H	111	54.7	5.2
2	*5885.00	111.0 PK			2.84 H	111	67.5	43.5
3	*5885.00	97.8 AV			2.84 H	111	54.3	43.5
4	#5895.00	100.2 PK	110.2	-10.0	2.84 H	111	94.3	5.9
5	#5895.00	85.2 AV	90.2	-5.0	2.84 H	111	79.3	5.9
6	#5925.00	69.2 PK	88.2	-19.0	2.84 H	111	63.3	5.9
7	#5925.00	51.4 AV	68.2	-16.8	2.84 H	111	45.5	5.9
8	11770.00	59.3 PK	74.0	-14.7	2.18 H	182	47.6	11.7
9	11770.00	46.0 AV	54.0	-8.0	2.18 H	182	34.3	11.7

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	#5650.00	62.1 PK	68.2	-6.1	2.77 V	125	56.9	5.2
2	*5885.00	114.3 PK			2.77 V	125	70.8	43.5
3	*5885.00	101.1 AV			2.77 V	125	57.6	43.5
4	#5895.00	102.6 PK	110.2	-7.6	2.77 V	125	96.7	5.9
5	#5895.00	88.7 AV	90.2	-1.5	2.77 V	125	82.8	5.9
6	#5925.00	69.7 PK	88.2	-18.5	2.77 V	125	63.8	5.9
7	#5925.00	53.3 AV	68.2	-14.9	2.77 V	125	47.4	5.9
8	11770.00	60.0 PK	74.0	-14.0	1.52 V	46	48.3	11.7
9	11770.00	46.6 AV	54.0	-7.4	1.52 V	46	34.9	11.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.1 PK	68.2	-12.1	2.89 H	115	50.9	5.2
2	*5835.00	110.3 PK			2.89 H	115	66.9	43.4
3	*5835.00	97.2 AV			2.89 H	115	53.8	43.4
4	#5925.00	63.2 PK	68.2	-5.0	2.89 H	115	57.3	5.9
5	11670.00	58.6 PK	74.0	-15.4	2.12 H	170	46.9	11.7
6	11670.00	45.5 AV	54.0	-8.5	2.12 H	170	33.8	11.7
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	#5650.00	57.0 PK	68.2	-11.2	2.78 V	127	51.8	5.2
2	*5835.00	113.5 PK			2.78 V	127	70.1	43.4
3	*5835.00	100.4 AV			2.78 V	127	57.0	43.4
4	#5925.00	65.7 PK	68.2	-2.5	2.78 V	127	59.8	5.9
5	11670.00	59.5 PK	74.0	-14.5	1.42 V	37	47.8	11.7
6	11670.00	46.4 AV	54.0	-7.6	1.42 V	37	34.7	11.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	55.9 PK	68.2	-12.3	2.80 H	113	50.7	5.2
2	*5875.00	110.1 PK			2.80 H	113	66.6	43.5
3	*5875.00	96.9 AV			2.80 H	113	53.4	43.5
4	#5895.00	92.4 PK	110.2	-17.8	2.80 H	113	86.5	5.9
5	#5895.00	72.7 AV	90.2	-17.5	2.80 H	113	66.8	5.9
6	#5925.00	77.4 PK	88.2	-10.8	2.80 H	113	71.5	5.9
7	#5925.00	60.2 AV	68.2	-8.0	2.80 H	113	54.3	5.9
8	11750.00	59.1 PK	74.0	-14.9	2.14 H	178	47.4	11.7
9	11750.00	46.0 AV	54.0	-8.0	2.14 H	178	34.3	11.7
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	#5650.00	56.5 PK	68.2	-11.7	2.76 V	125	51.3	5.2
2	*5875.00	113.2 PK			2.76 V	125	69.7	43.5
3	*5875.00	100.1 AV			2.76 V	125	56.6	43.5
4	#5895.00	97.2 PK	110.2	-13.0	2.76 V	125	91.3	5.9
5	#5895.00	75.4 AV	90.2	-14.8	2.76 V	125	69.5	5.9
6	#5925.00	80.2 PK	88.2	-8.0	2.76 V	125	74.3	5.9
7	#5925.00	62.9 AV	68.2	-5.3	2.76 V	125	57.0	5.9
8	11750.00	59.8 PK	74.0	-14.2	1.51 V	47	48.1	11.7
9	11750.00	46.5 AV	54.0	-7.5	1.51 V	47	34.8	11.7

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, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.0 PK	68.2	-11.2	2.81 H	115	51.8	5.2
2	*5855.00	106.3 PK			2.81 H	115	62.8	43.5
3	*5855.00	93.2 AV			2.81 H	115	49.7	43.5
4	#5895.00	90.2 PK	110.2	-20.0	2.81 H	115	84.3	5.9
5	#5895.00	68.0 AV	90.2	-22.2	2.81 H	115	62.1	5.9
6	#5925.00	77.4 PK	88.2	-10.8	2.81 H	115	71.5	5.9
7	#5925.00	63.0 AV	68.2	-5.2	2.81 H	115	57.1	5.9
8	11710.00	58.9 PK	74.0	-15.1	2.16 H	183	47.2	11.7
9	11710.00	45.9 AV	54.0	-8.1	2.16 H	183	34.2	11.7

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	#5650.00	58.4 PK	68.2	-9.8	2.76 V	126	53.2	5.2
2	*5855.00	109.6 PK			2.76 V	126	66.1	43.5
3	*5855.00	96.4 AV			2.76 V	126	52.9	43.5
4	#5895.00	91.7 PK	110.2	-18.5	2.76 V	126	85.8	5.9
5	#5895.00	70.2 AV	90.2	-20.0	2.76 V	126	64.3	5.9
6	#5925.00	80.9 PK	88.2	-7.3	2.76 V	126	75.0	5.9
7	#5925.00	64.8 AV	68.2	-3.4	2.76 V	126	58.9	5.9
8	11710.00	59.5 PK	74.0	-14.5	1.56 V	41	47.8	11.7
9	11710.00	46.5 AV	54.0	-7.5	1.56 V	41	34.8	11.7

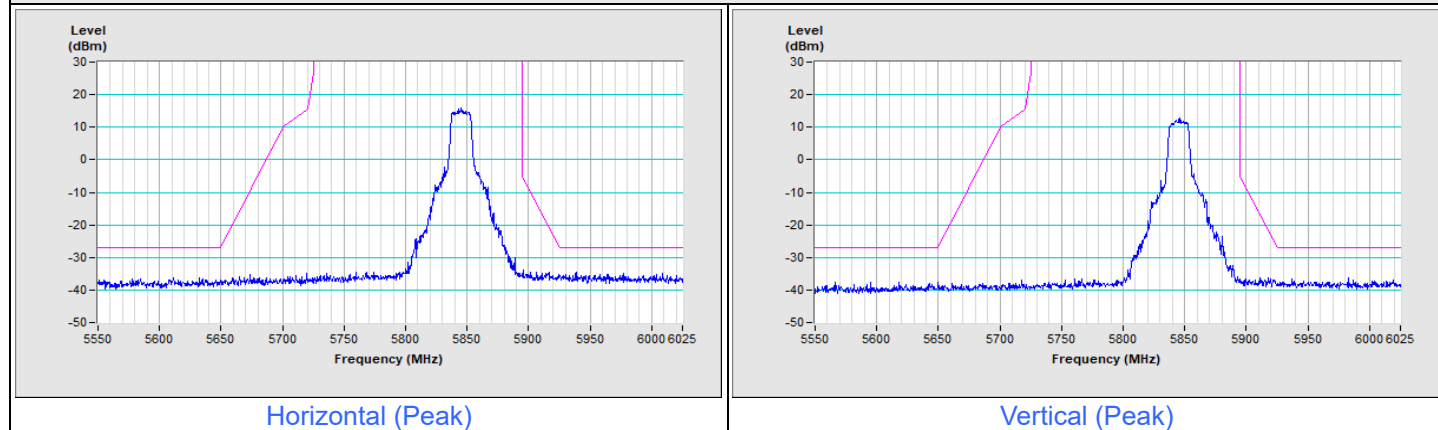
Remarks:

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.

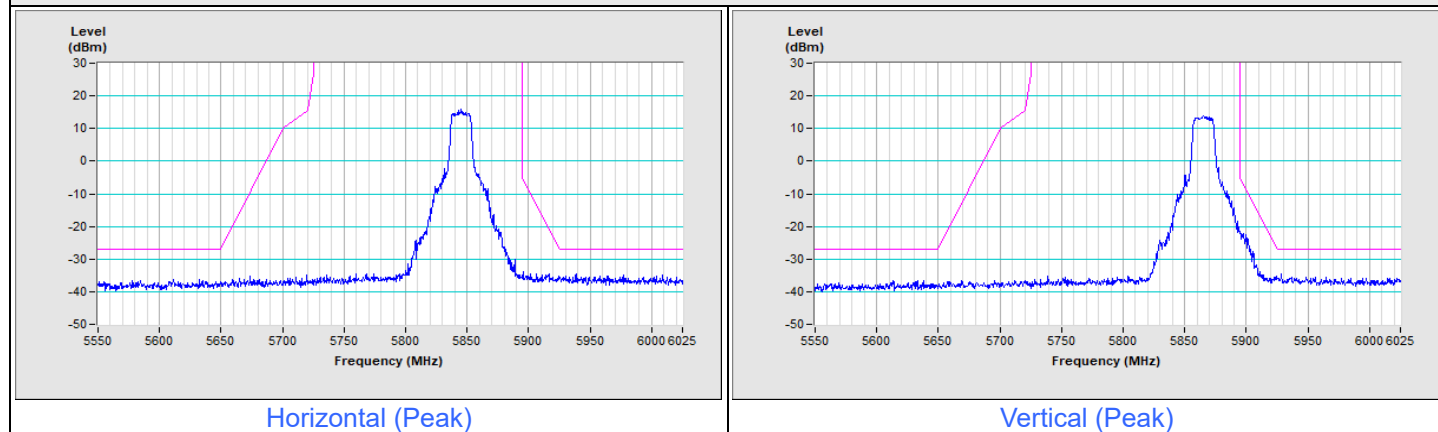
Plot of Band Edge_Mode A

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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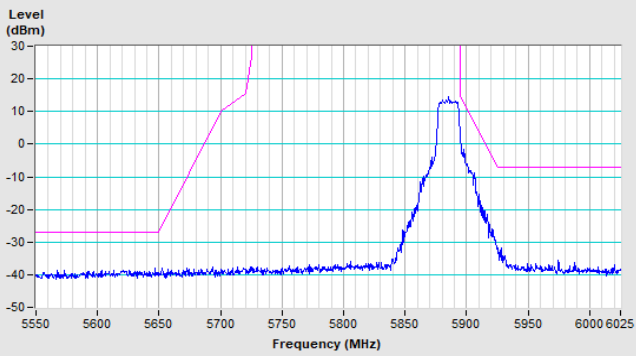
802.11a Channel 169



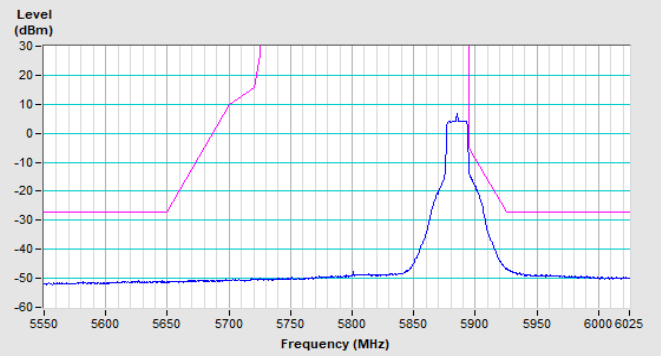
802.11a Channel 173



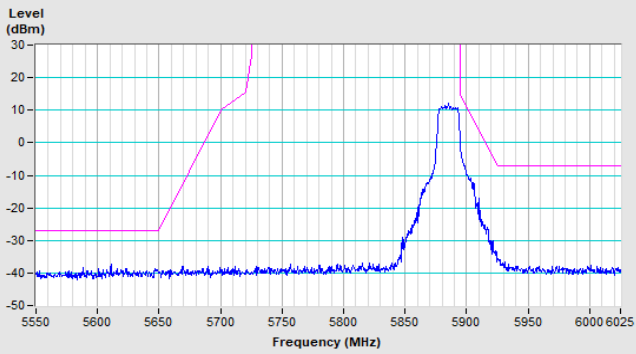
802.11a Channel 177



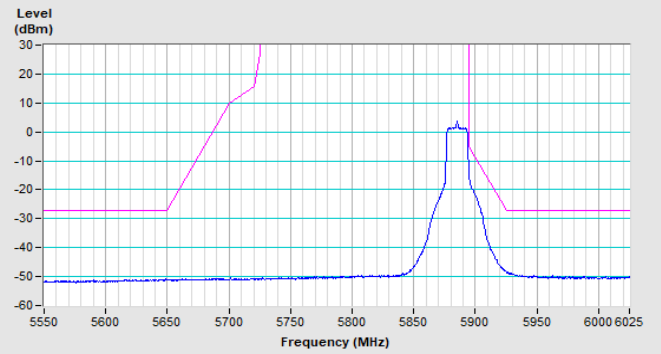
Horizontal (Peak)



Horizontal (Average)



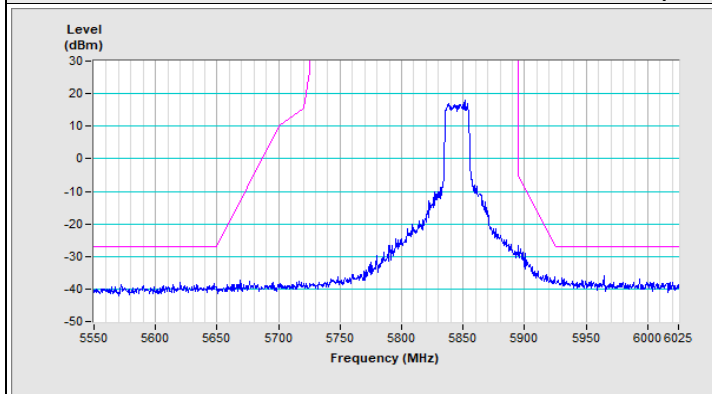
Vertical (Peak)



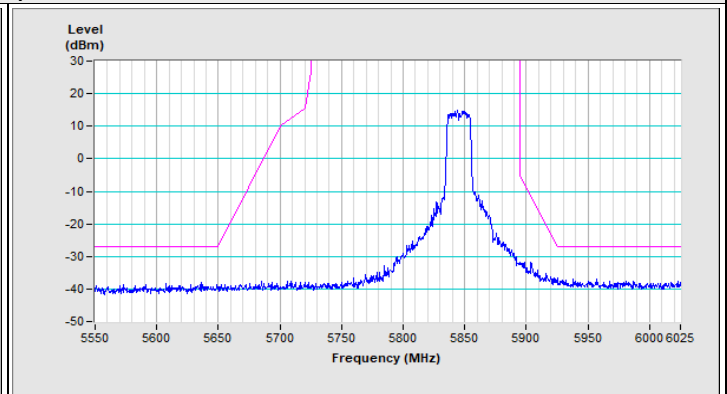
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 169

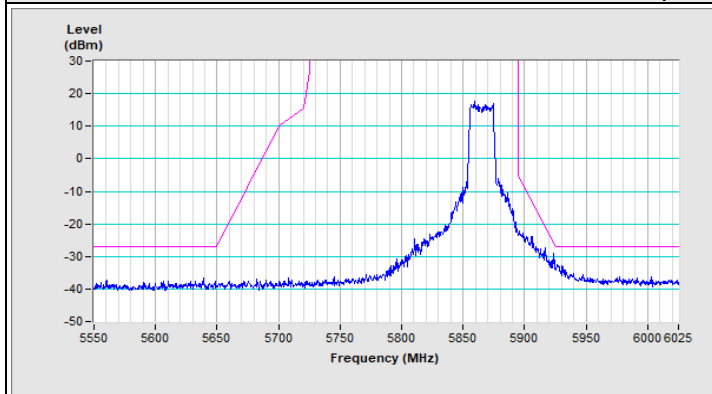


Horizontal (Peak)

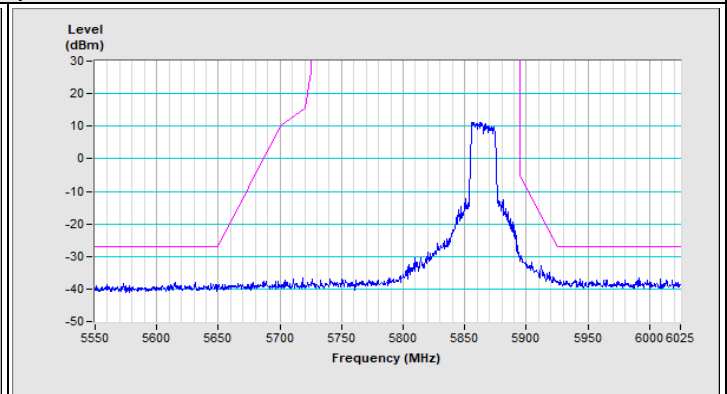


Vertical (Peak)

802.11ax (HE20) Channel 173

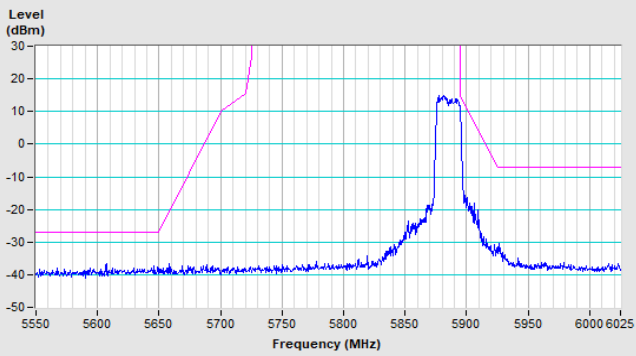


Horizontal (Peak)

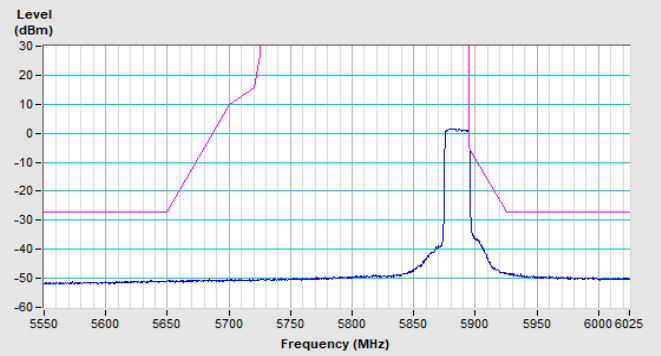


Vertical (Peak)

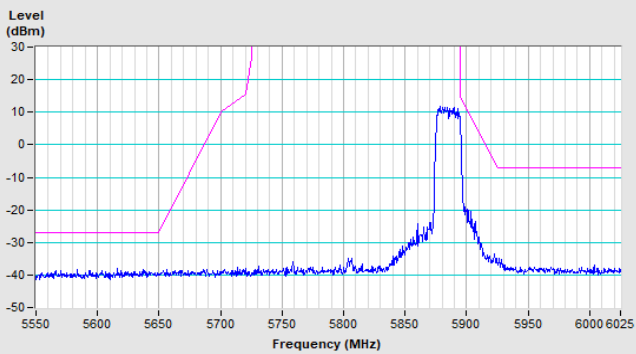
802.11ax (HE20) Channel 177



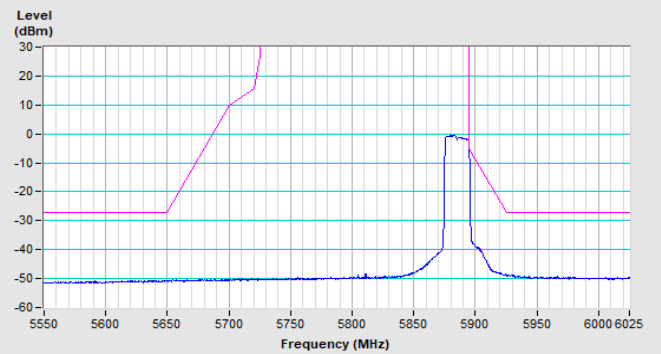
Horizontal (Peak)



Horizontal (Average)



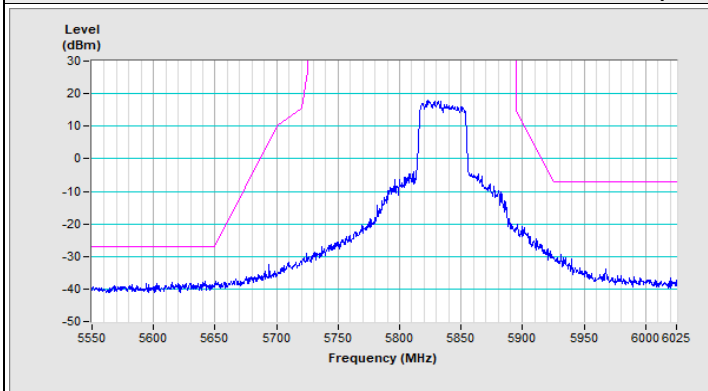
Vertical (Peak)



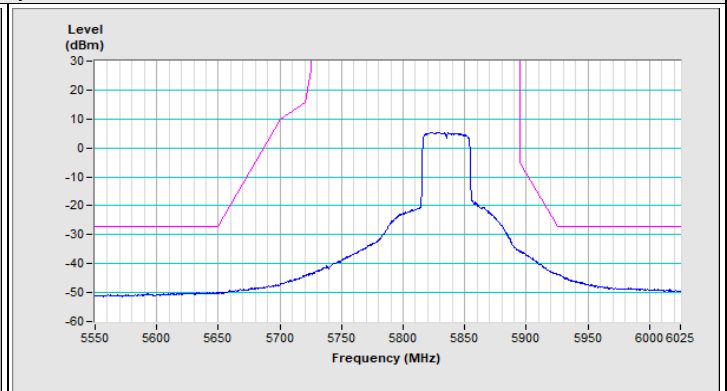
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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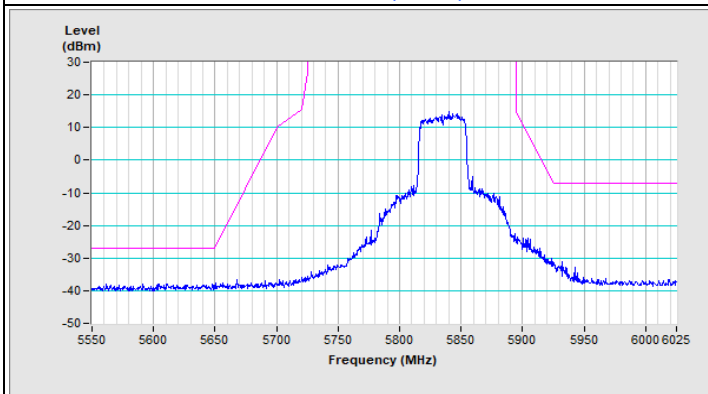
802.11ax (HE40) Channel 167



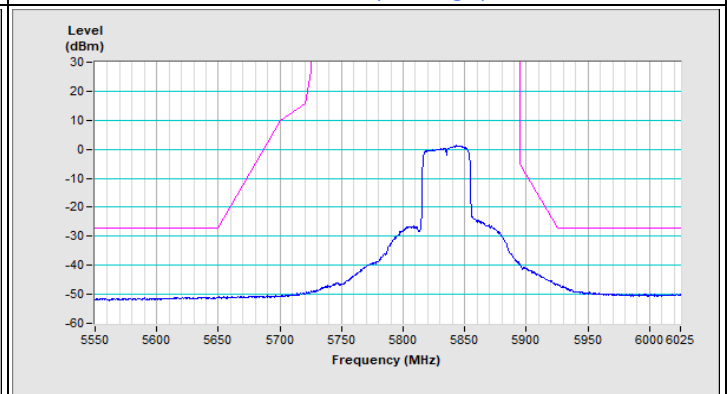
Horizontal (Peak)



Horizontal (Average)

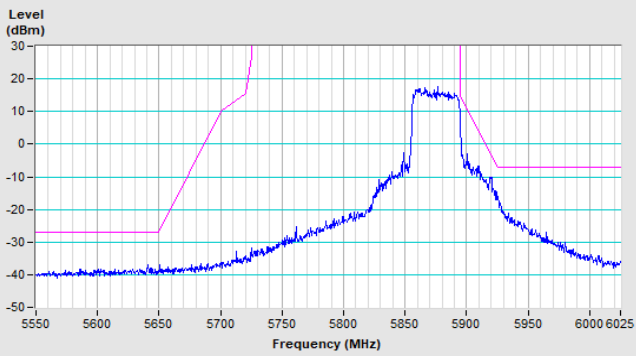


Vertical (Peak)

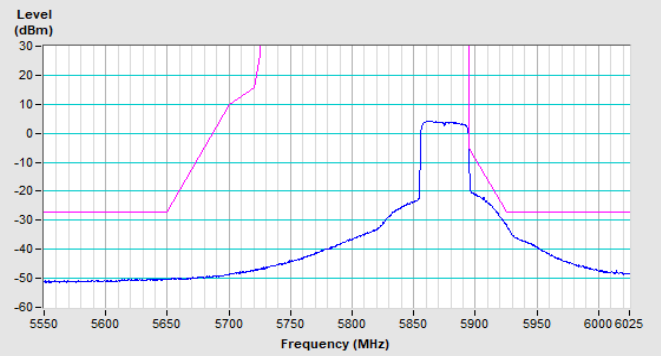


Vertical (Average)

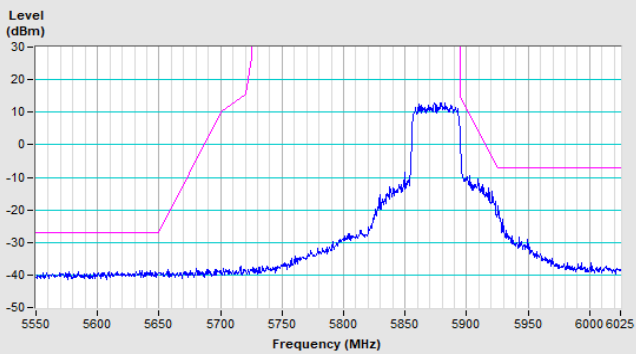
802.11ax (HE40) Channel 175



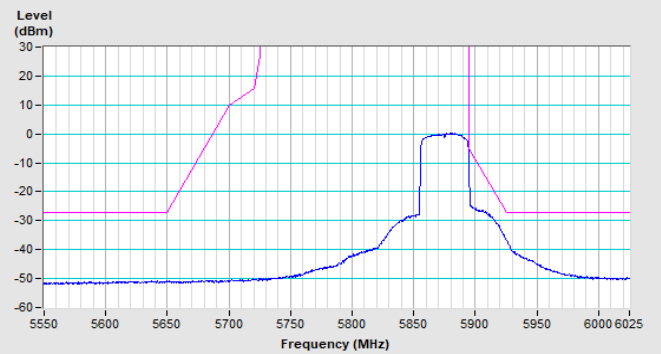
Horizontal (Peak)



Horizontal (Average)



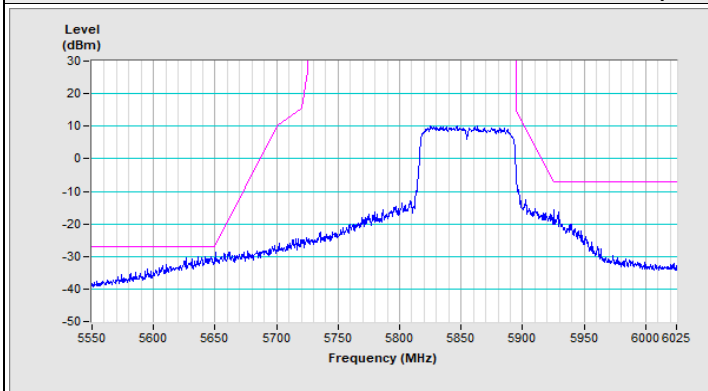
Vertical (Peak)



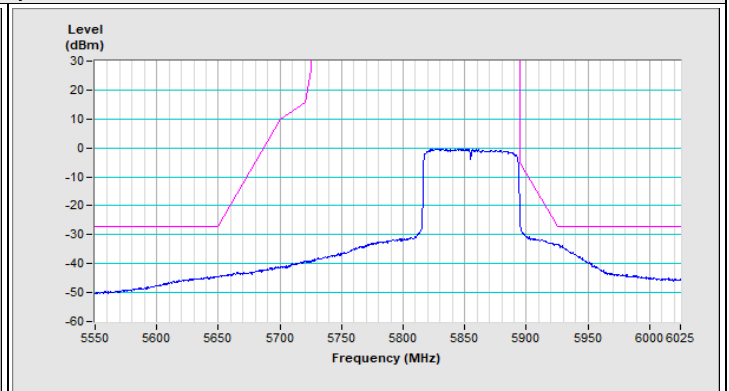
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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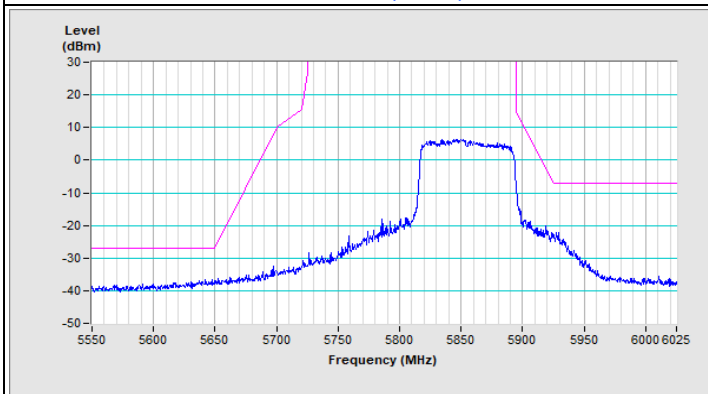
802.11ax (HE80) Channel 171



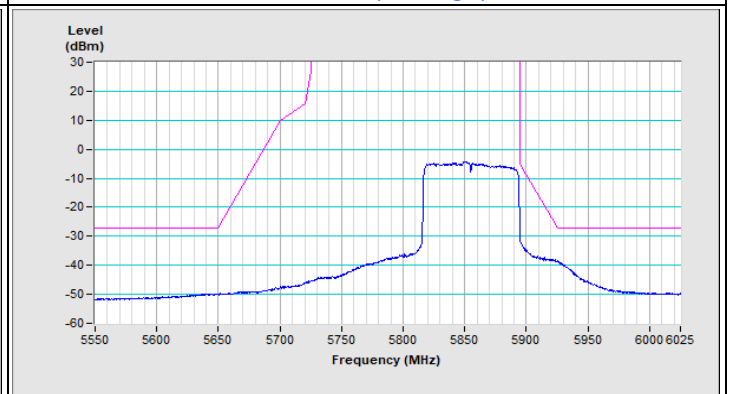
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

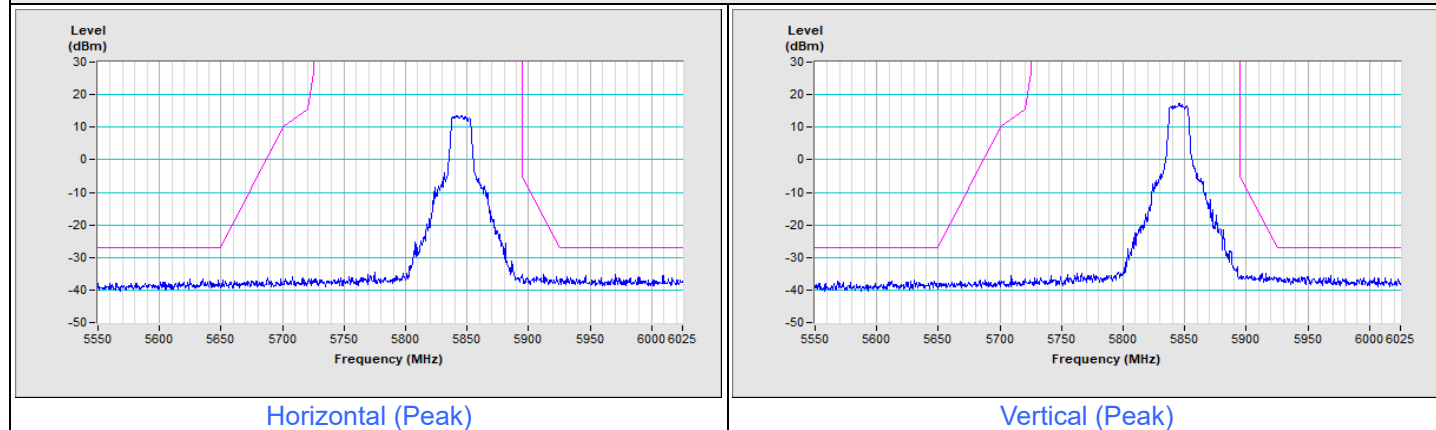


Vertical (Average)

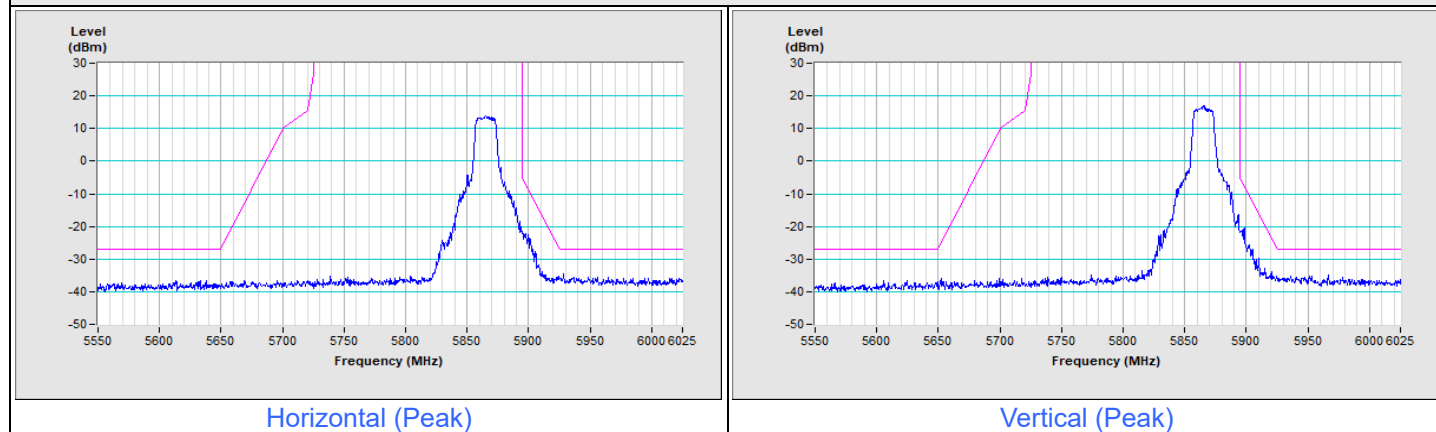
Plot of Band Edge_Mode B

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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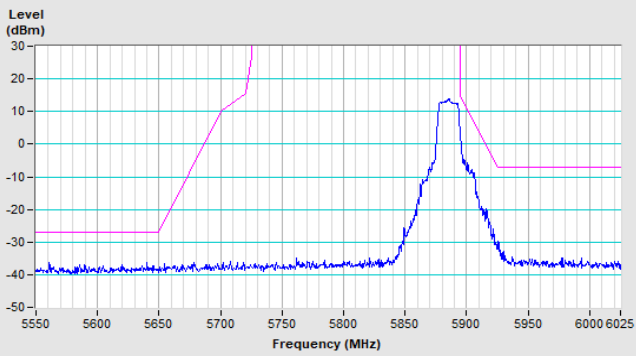
802.11a Channel 169



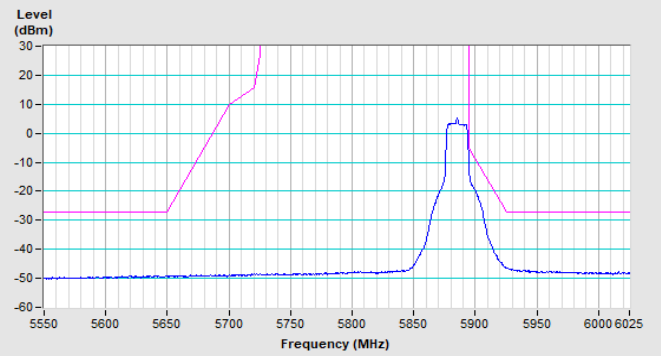
802.11a Channel 173



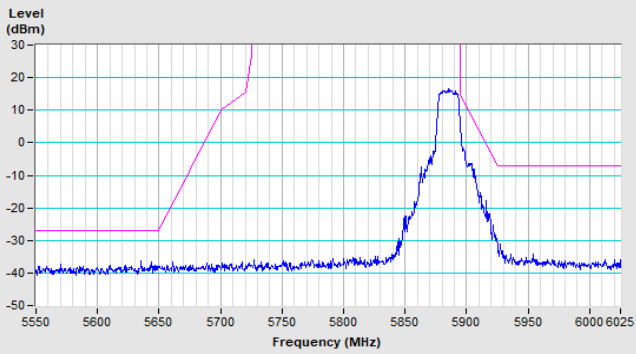
802.11a Channel 177



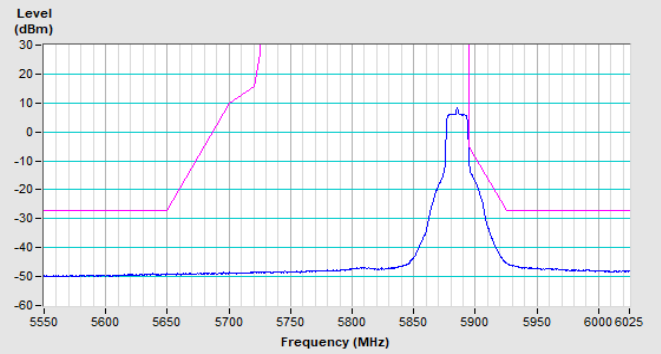
Horizontal (Peak)



Horizontal (Average)



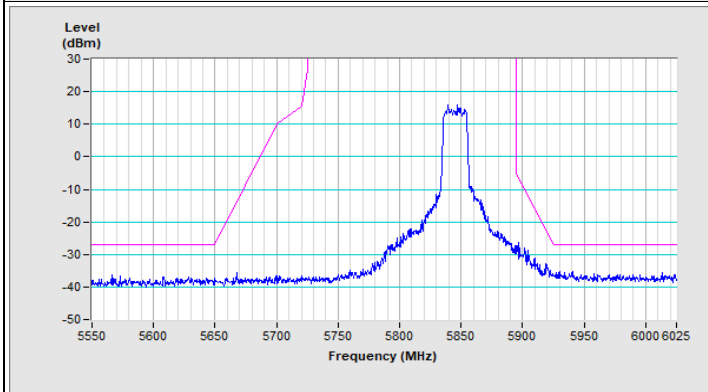
Vertical (Peak)



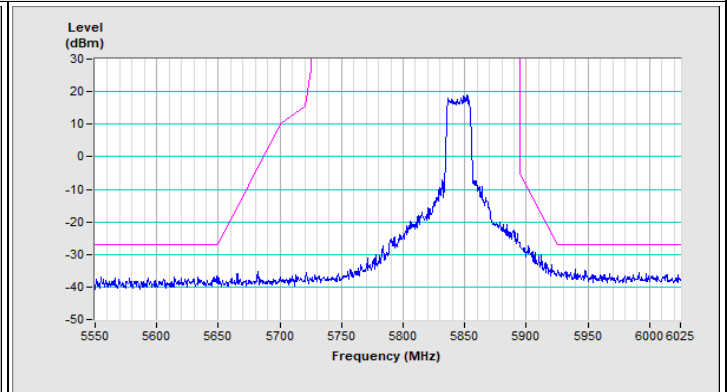
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 169

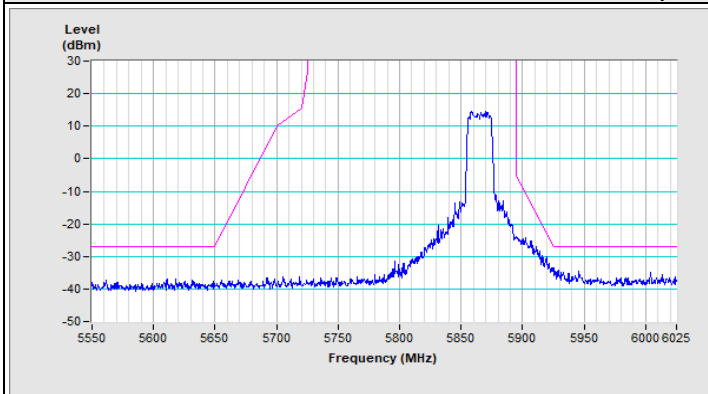


Horizontal (Peak)

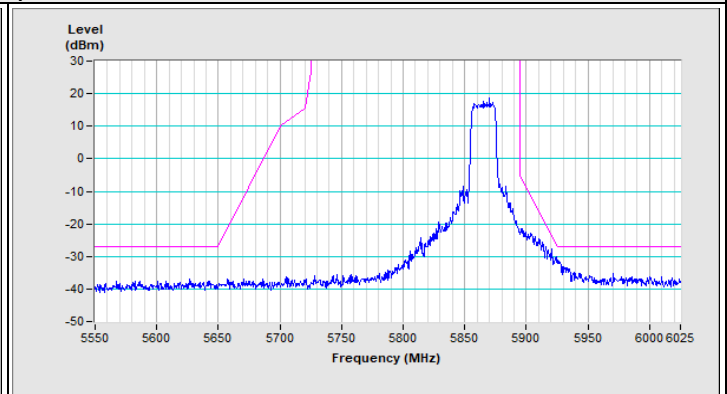


Vertical (Peak)

802.11ax (HE20) Channel 173

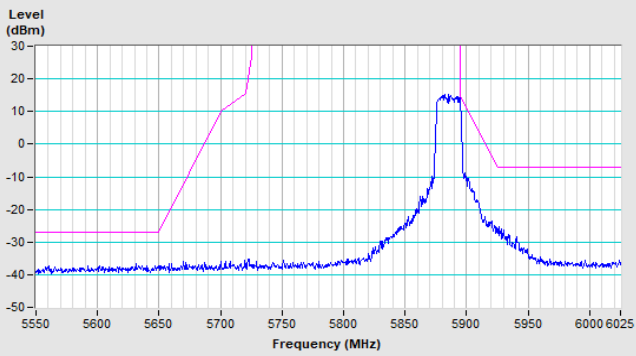


Horizontal (Peak)

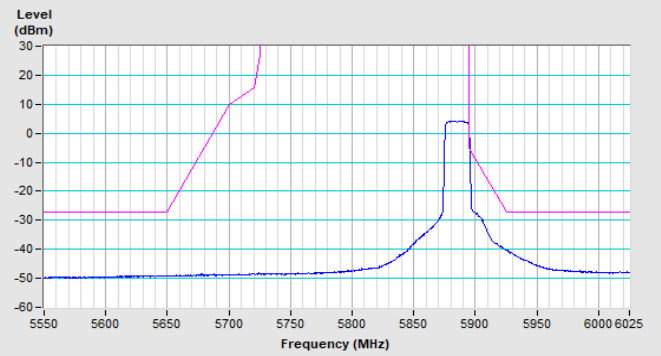


Vertical (Peak)

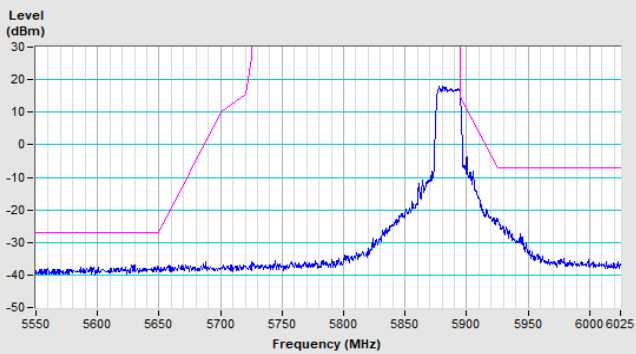
802.11ax (HE20) Channel 177



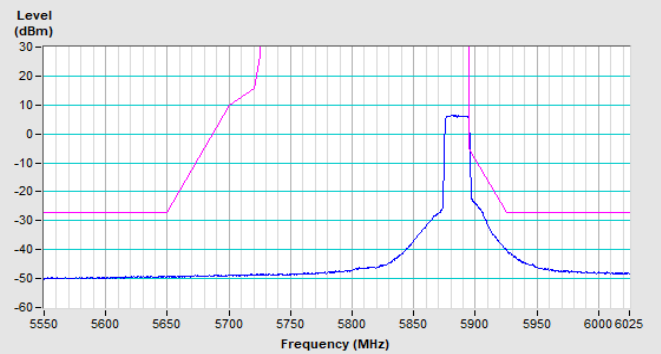
Horizontal (Peak)



Horizontal (Average)



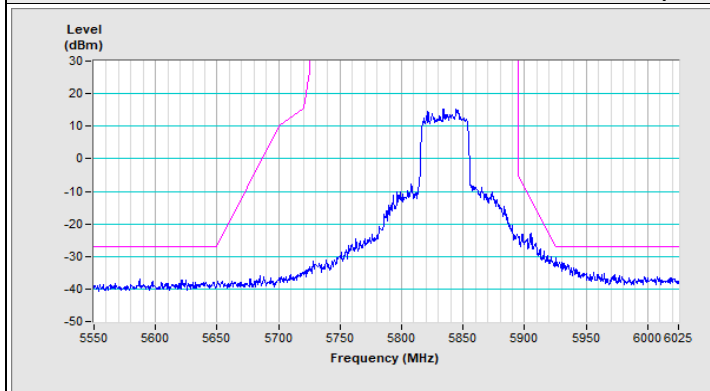
Vertical (Peak)



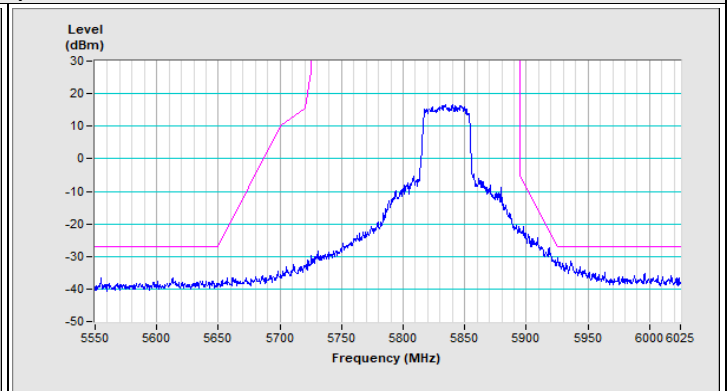
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 167

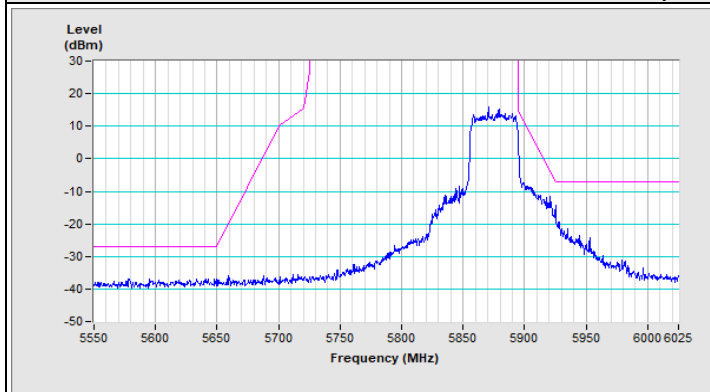


Horizontal (Peak)

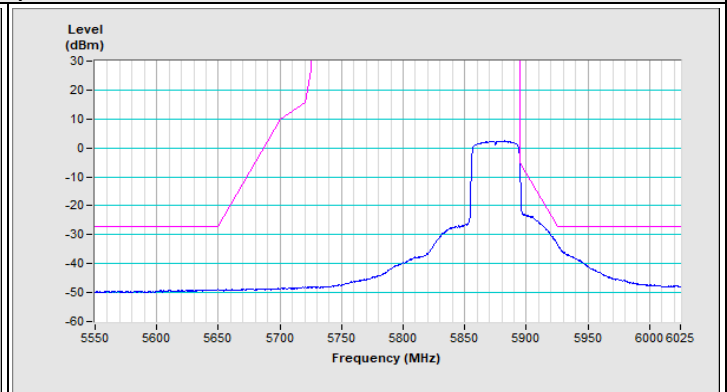


Vertical (Peak)

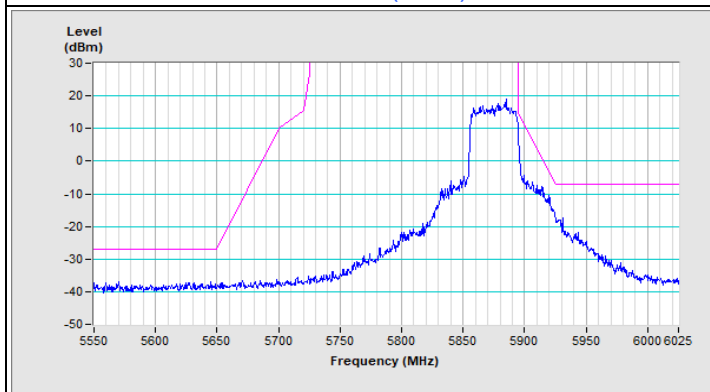
802.11ax (HE40) Channel 175



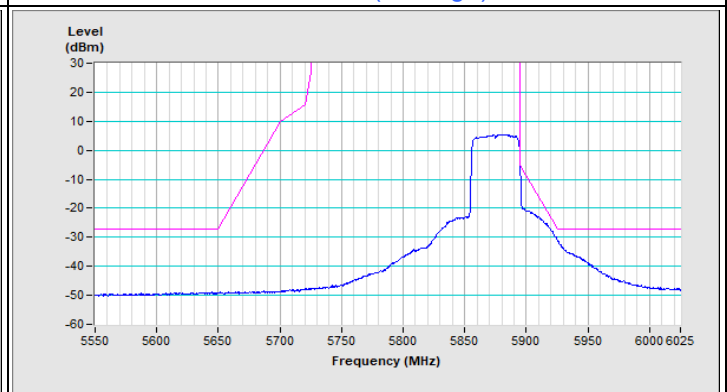
Horizontal (Peak)



Horizontal (Average)



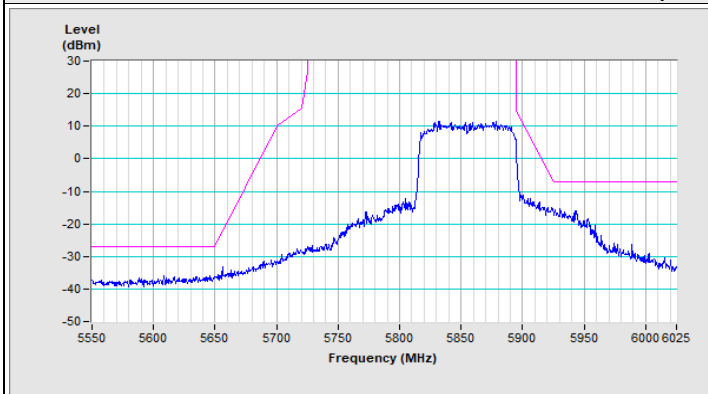
Vertical (Peak)



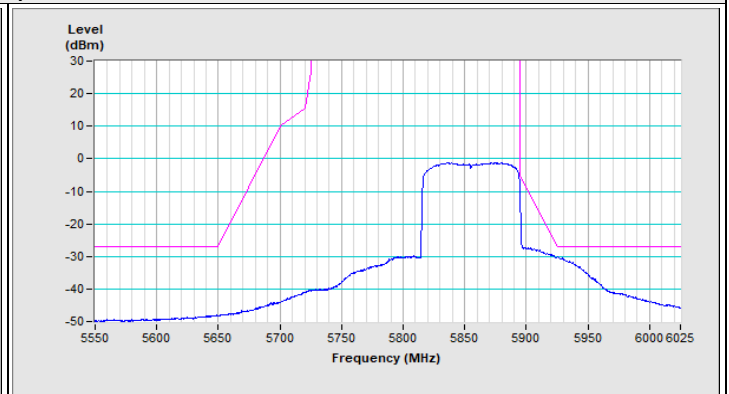
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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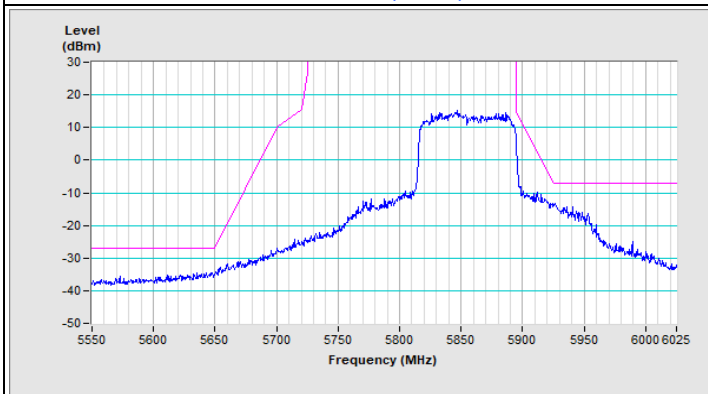
802.11ax (HE80) Channel 171



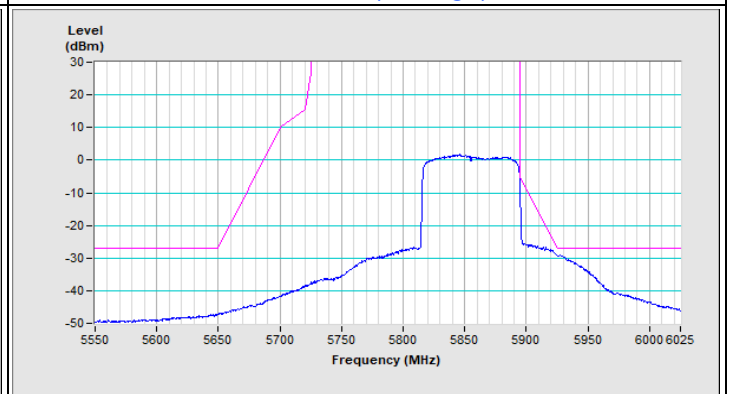
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com

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

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

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