

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEDV-WTW-P23080241-7

FCC ID: BEJNT-16T90SP

Product: Notebook Computer

Brand: LG or  LG

Model No.: 16T90SP

Series Model: 16T90SP**, 16TD90SP**, 16TG90SP**, 16TB90SP**

Remark "*" can be 0 to 9 or A to Z or dash or blank

(Refer to item 3.1 for the more details)

Received Date: 2023/8/10

Test Date: 2023/10/4 ~ 2023/10/26

Issued Date: 2023/11/27

Applicant: LG Electronics USA, Inc.

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

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FCC Registration / (1) 788550 / TW0003

Designation Number: (2) 281270 / TW0032

Approved by:



Date:

2023/11/27

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P23080241-7	Original Release	2023/11/27

1 Certificate

Product: Notebook Computer

Brand: LG or  **LG**

Test Model: 16T90SP

Series Model: 16T90SP**, 16TD90SP**, 16TG90SP**, 16TB90SP**
Remark "**" can be 0 to 9 or A to Z or dash or blank
(Refer to item 3.1 for the more details)

Sample Status: DV Sample

Applicant: LG Electronics USA, Inc.

Test Date: 2023/10/4 ~ 2023/10/26

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

Measurement procedure: ANSI C63.10-2013
KDB 291074 D02 EMC Measurement v01
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -11.58 dB at 0.77800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.7 dB at 31.94 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 5895.00 MHz
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Notebook Computer
Brand	LG or  LG
Test Model	16T90SP
Series Model	16T90SP**, 16TD90SP**, 16TG90SP**, 16TB90SP** Remark "*" can be 0 to 9 or A to Z or dash or blank
Model Difference	Refer to Note
Status of EUT	DV Sample
Power Supply Rating	15.52Vdc from battery 5.0Vdc or 9.0Vdc or 15.0Vdc or 20.0Vdc from adapter
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 2401.9 Mbps
Operating Frequency	5.845 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):1 802.11ac (VHT160), 802.11ax (HE160):1
Output Power	EIRP: 44.981 mW (16.53 dBm)
EUT Category	Client device

Note:

1. The model is listed as below.

Brand	Model Name	Remark
LG or  LG	16T90SP	Main test model
	16T90SP**	"*" can be 0 to 9 or A to Z or dash or blank, for marketing purposes only
	16TD90SP**	
	16TG90SP**	
	16TB90SP**	

2. The EUT contains following accessory devices.

BT/WLAN Module	Brand	Intel
	Model	AX211D2W
Battery	Brand	LG or  LG
	Model	LB3122MM
	Power Rating	15.52Vdc, Typical capacity: 4963mAh/77Wh, Rated Capacity: 4733mAh/73.46Wh
Active Stylus Pen	Brand	LGE
	Model	PEW7
AC Adapter	Brand	LG or  LG
	Model	LP65WFC20P-NJ
	Part Number	N/A
	AC Input	100-240V~, 50-60Hz, 1.6A
	DC Output	(PDO) 5.0Vdc, 3.0A, 15.0W or 9.0Vdc, 3.0A, 27.0W or 15.0Vdc, 3.0A, 45.0W or 20.0Vdc, 3.25A, 65.0W (PPS) 5.0V-20.0Vdc, 3.25A, Max 65.0W
Type C to Type C cable	Brand	Luxshare
	Model	L1LUC022-CS-H
	Specification	1.95mm

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

NB Mode						
Antenna Type		PIFA				
Connector Type		I-PEX				
Manufacturer	Parts Number	Antenna Gain (dBi)				
		5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	5850-5895MHz
AWAN	WLAN Main Antenna: AYF6Y-200008 (1415-0ADV000)	Main: 2.19	Main: 1.92	Main: 2.07	Main: 2.40	Main: 2.40
	WLAN Aux Antenna: AYF6Y-200008 (1415-0ADV000)	Aux.: 1.40	Aux.: 1.96	Aux.: 2.79	Aux.: 2.79	Aux.: 2.32
INPAQ	WLAN Main Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Main: 2.13	Main: 1.83	Main: 1.99	Main: 2.12	Main: 2.28
	WLAN Aux Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Aux.: 1.33	Aux.: 1.93	Aux.: 2.54	Aux.: 2.49	Aux.: 2.24

TB Mode						
Antenna Type		PIFA				
Connector Type		I-PEX				
Manufacturer	Parts Number	Antenna Gain (dBi)				
		5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	5850-5895MHz
AWAN	WLAN Main Antenna: AYF6Y-200008 (1415-0ADV000)	Main: 1.99	Main: 2.51	Main: 3.04	Main: 3.04	Main: 2.38
	WLAN Aux Antenna: AYF6Y-200008 (1415-0ADV000)	Aux.: 0.13	Aux.: -0.13	Aux.: 1.32	Aux.: 1.32	Aux.: 0.43
INPAQ	WLAN Main Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Main: 1.85	Main: 2.39	Main: 2.86	Main: 2.65	Main: 2.29
	WLAN Aux Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Aux.: 0.11	Aux.: -0.19	Aux.: 1.25	Aux.: 1.27	Aux.: 0.39

*The maximum gain were for the final tests. Chain 0 = Aux. antenna, Chain 1 = Main antenna.

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX Diversity	1RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/2x996)	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

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

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

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

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

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

Channel	Frequency
*163	5815 MHz

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis for tablet mode and Laptop mode. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	Laptop mode

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power / Power Spectral Density	802.11a (Chain 0 / Chain 1)	169, 173, 177	BPSK	6Mb/s
	802.11ax (HE20) 26-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE20) 52-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE20) 106-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE20) Full RU	169, 173, 177	BPSK	HE0
	802.11ax (HE40) 242-tone RU	167, 175	BPSK	HE0
	802.11ax (HE40) Full RU	167, 175	BPSK	HE0
	802.11ax (HE80) 484-tone RU	171	BPSK	HE0
	802.11ax (HE80) Full RU	171	BPSK	HE0
	802.11ax (HE160) 996-tone RU	163	BPSK	HE0
	802.11ax (HE160) 996-tone RU RU996S	163	BPSK	HE0
	802.11ax (HE160) Full RU	163	BPSK	HE0
6 dB Bandwidth	802.11a (Chain 0 / Chain 1)	169, 173, 177	BPSK	6Mb/s
	802.11ax (HE20) Full RU	169, 173, 177	BPSK	HE0
	802.11ax (HE40) Full RU	167, 175	BPSK	HE0
	802.11ax (HE80) Full RU	171	BPSK	HE0
	802.11ax (HE160) Full RU	163	BPSK	HE0
Frequency Stability	802.11a	169	unmodulated	-
AC Power Conducted Emissions	802.11ax (HE160) Full RU	163	BPSK	HE0
Unwanted Emissions below 1 GHz	802.11ax (HE160) Full RU	163	BPSK	HE0

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	802.11a (Chain 0 / Chain 1)	169, 173, 177	BPSK	6Mb/s
	802.11ax (HE20) Full RU	169, 173, 177	BPSK	HE0
	802.11ax (HE40) Full RU	167, 175	BPSK	HE0
	802.11ax (HE80) Full RU	171	BPSK	HE0
	802.11ax (HE160) Full RU	163	BPSK	HE0
	802.11ax (HE20) 26-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE20) 52-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE20) 106-tone RU	169, 173, 177	BPSK	HE0
	802.11ax (HE40) 242-tone RU	167, 175	BPSK	HE0
	802.11ax (HE80) 484-tone RU	171	BPSK	HE0
	802.11ax (HE160) 996-tone RU	163	BPSK	HE0
	802.11ax (HE160) 996-tone RU RU996S	163	BPSK	HE0

3.5 Duty Cycle of Test Signal

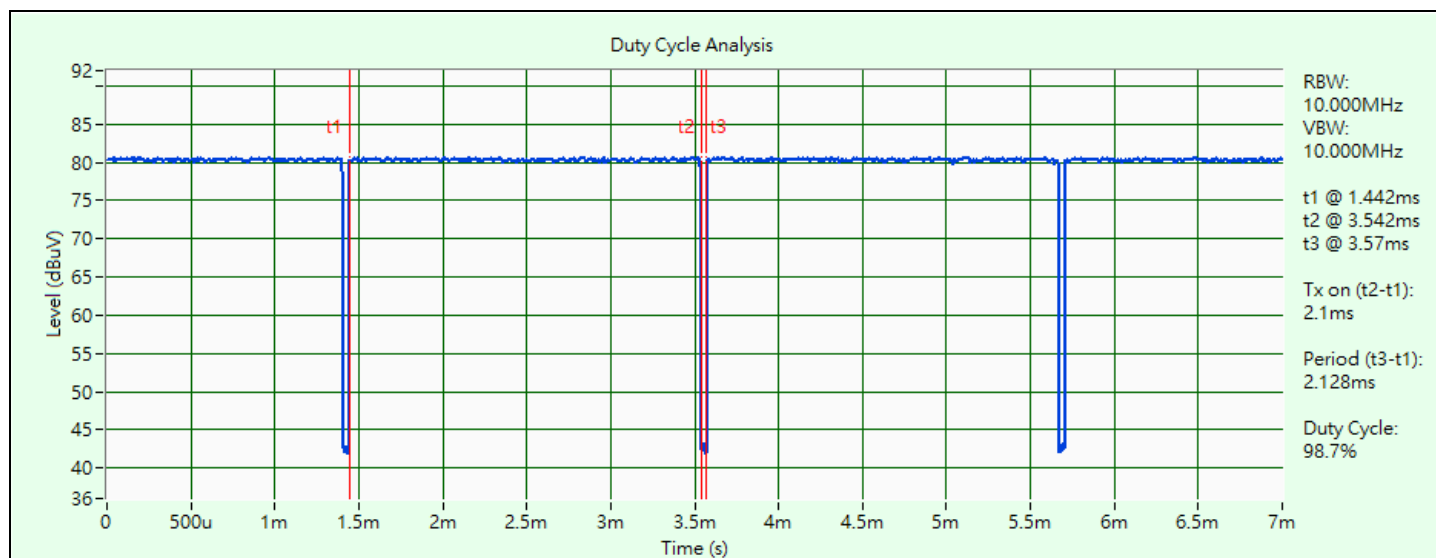
802.11a: Duty cycle = 2.1 ms / 2.128 ms x 100% = 98.7%

802.11ax (HE20) Full RU: Duty cycle = 4 ms / 4.03 ms x 100% = 99.3%

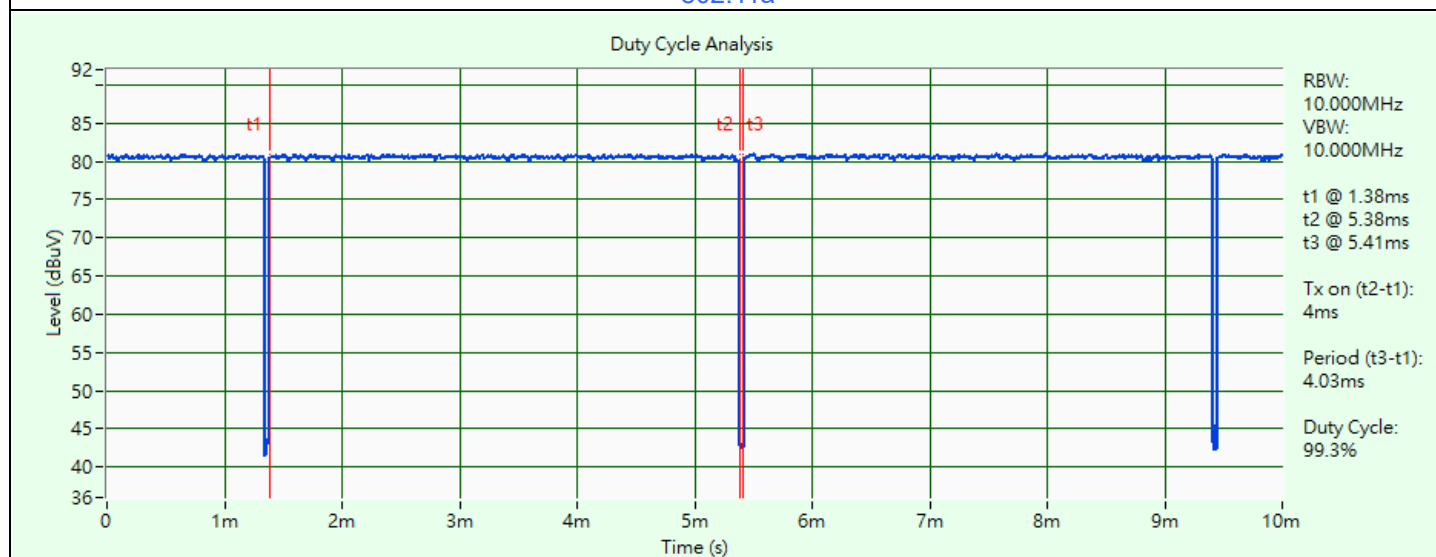
802.11ax (HE40) Full RU: Duty cycle = 4 ms / 4.03 ms x 100% = 99.3%

802.11ax (HE80) Full RU: Duty cycle = 4 ms / 4.03 ms x 100% = 99.3%

802.11ax (HE160) Full RU: Duty cycle = 3.99 ms / 4.02 ms x 100% = 99.3%

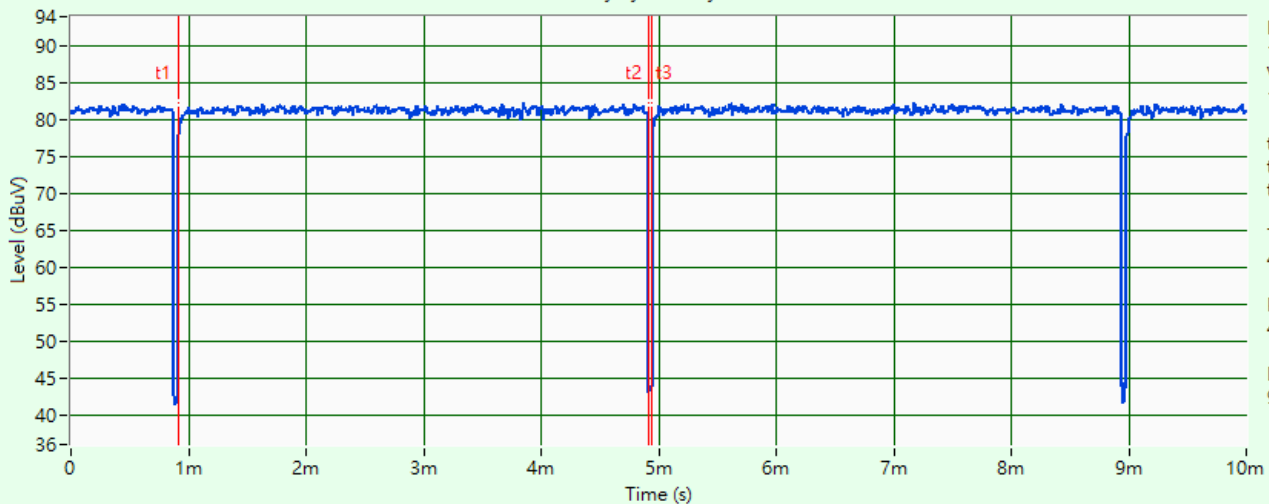


802.11a



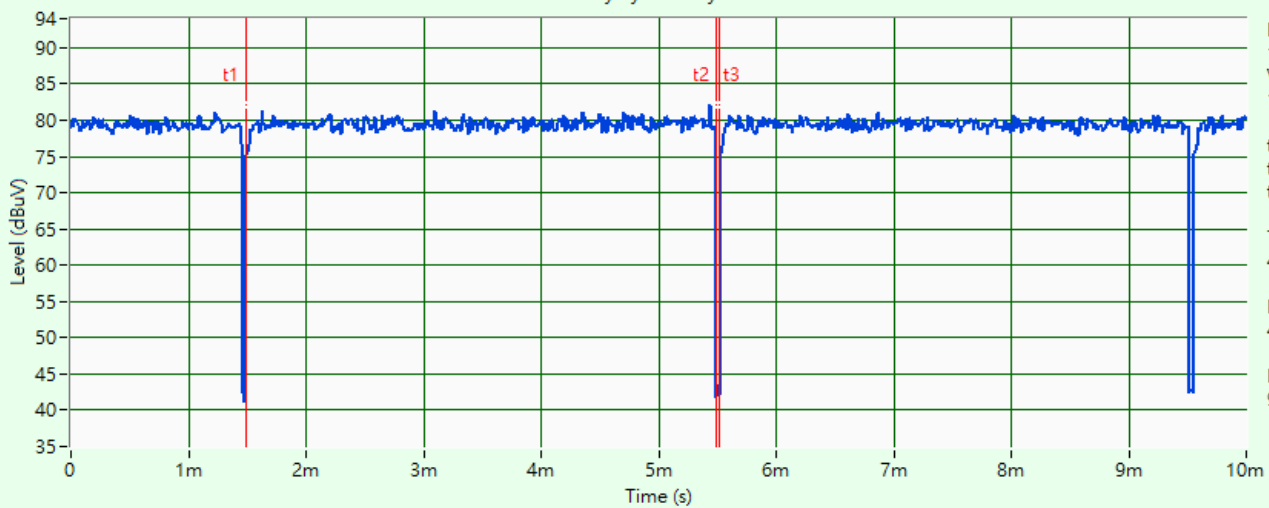
802.11ax (HE20) Full RU

Duty Cycle Analysis



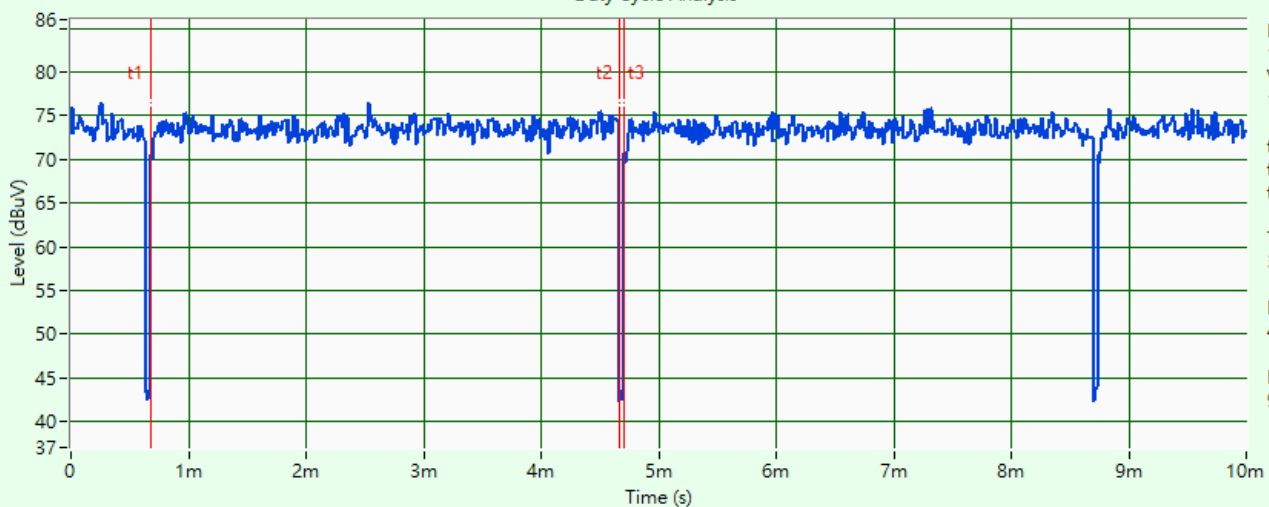
802.11ax (HE40) Full RU

Duty Cycle Analysis



802.11ax (HE80) Full RU

Duty Cycle Analysis

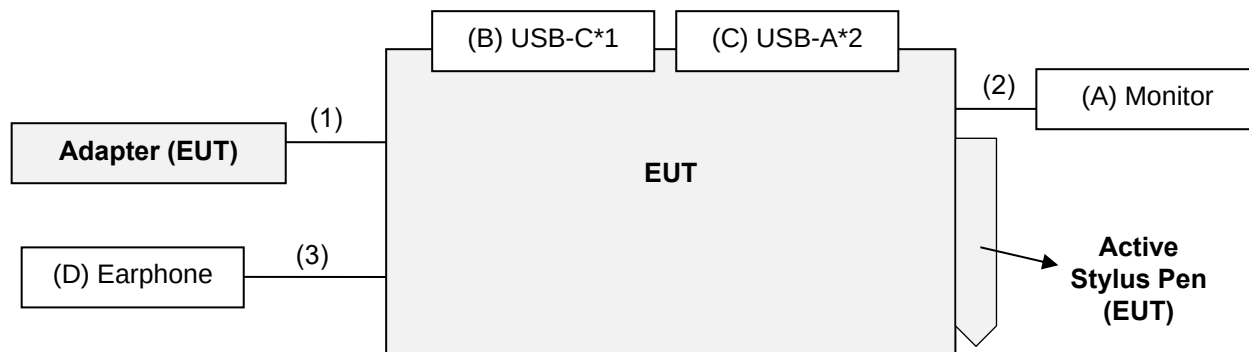


802.11ax (HE160) Full RU

3.6 Test Program Used and Operation Descriptions

Controlling software DRTU Version 04342.22.230.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Monitor	Dell	A14S2421HSXmTW	CN-01KFWF-WSL00-24C-711B	N/A	Provided by Lab
B.	USB-C*1	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C.	USB-A*2	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D.	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab

No.	Cable Descriptions	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Qty.)	Remark
1.	Type C to Type C cable	1	1.95	Yes	0	Accessory of EUT
2.	HDMI	1	1.8	Yes	0	Provided by Lab
3.	Earphone Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18	2024/1/17
		MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/26

4.2 Power Spectral Density

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

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/26

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Supply JIN YIH Technology	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2023/7/6	2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2022/12/27	2023/12/26

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/26

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2022/11/17	2023/11/16
50 ohm terminal resistance	E1-011280	05	2022/11/21	2023/11/20
	E1-011311	09	2022/11/17	2023/11/16
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2022/11/9	2023/11/8
EMI Test Receiver R&S	ESR3	102783	2022/12/21	2023/12/20
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2023/10/7

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2022/10/20	2023/10/19
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
Preamplifier EMCI	EMC330N	980782	2023/1/16	2024/1/15
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
	EMCCFD400-NM-NM-500	201233	2023/1/16	2024/1/15
	EMCCFD400-NM-NM-3000	201235	2023/1/16	2024/1/15
	EMCCFD400-NM-NM-9000	201236(with PAD)	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/10/5

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Horn Antenna RFSPIN	DRH18-E	210103A18E	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2022/11/13	2023/11/12
Preamplifier EMCI	EMC118A45SE	980808	2022/12/29	2023/12/28
	EMC184045SE	980788	2023/1/16	2024/1/15
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2023/1/16	2024/1/15
	EMC101G-KM-KM-3000	201257	2023/1/16	2024/1/15
	EMC101G-KM-KM-5000	201260	2023/1/16	2024/1/15
	EMC104-SM-SM-1000	210102	2023/1/16	2024/1/15
	EMC104-SM-SM-3000	201231	2023/1/16	2024/1/15
	EMC104-SM-SM-9000	201243	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/10/4 ~ 2023/10/11

5 Limits of Test Items

5.1 RF Output Power

Device Category	Limit (Max Average Power)
Indoor access point	EIRP 36 dBm
Subordinate device	EIRP 36 dBm
Client device	EIRP 30 dBm
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.	

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.2 Power Spectral Density

Device Category	Limit
Indoor access point	EIRP 20 dBm/MHz
Subordinate device	EIRP 20 dBm/MHz
Client device	EIRP 14 dBm/MHz
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.	

5.3 6 dB Bandwidth

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

5.4 Frequency Stability

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

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

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

Note:

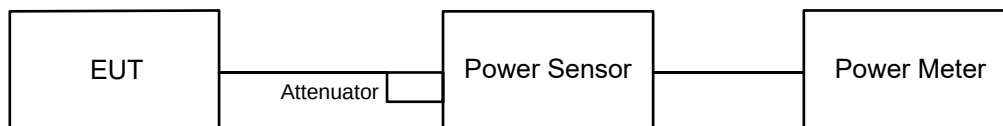
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

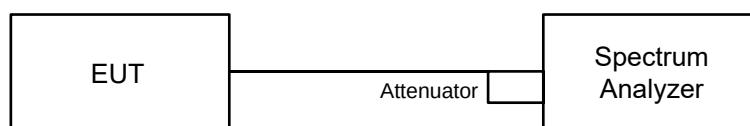


6.1.2 Test Procedure

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

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

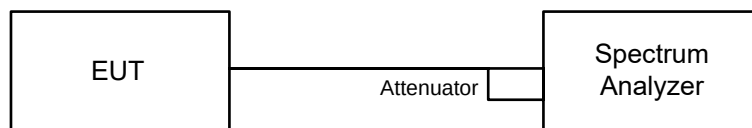
For specified measurement bandwidth 1 MHz:

Method SA-1

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

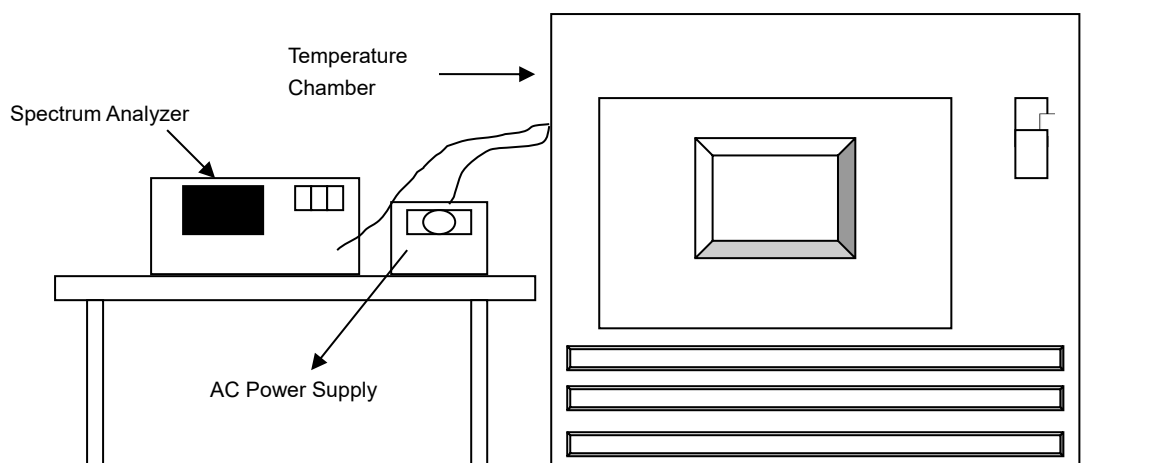


6.3.2 Test Procedure

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

6.4 Frequency Stability

6.4.1 Test Setup

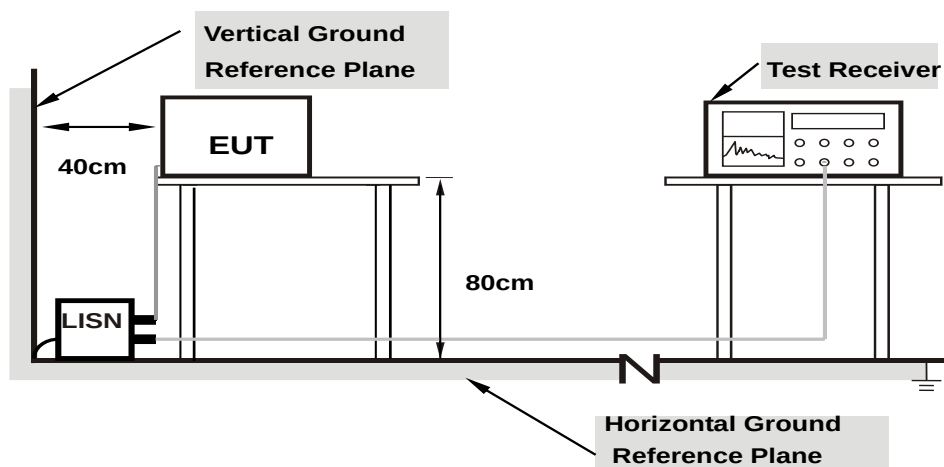


6.4.2 Test Procedure

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

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

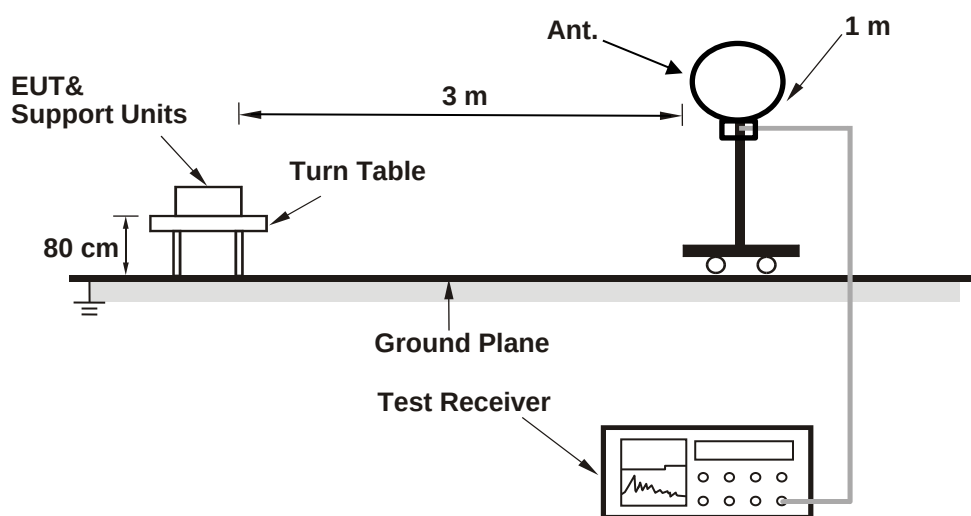
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

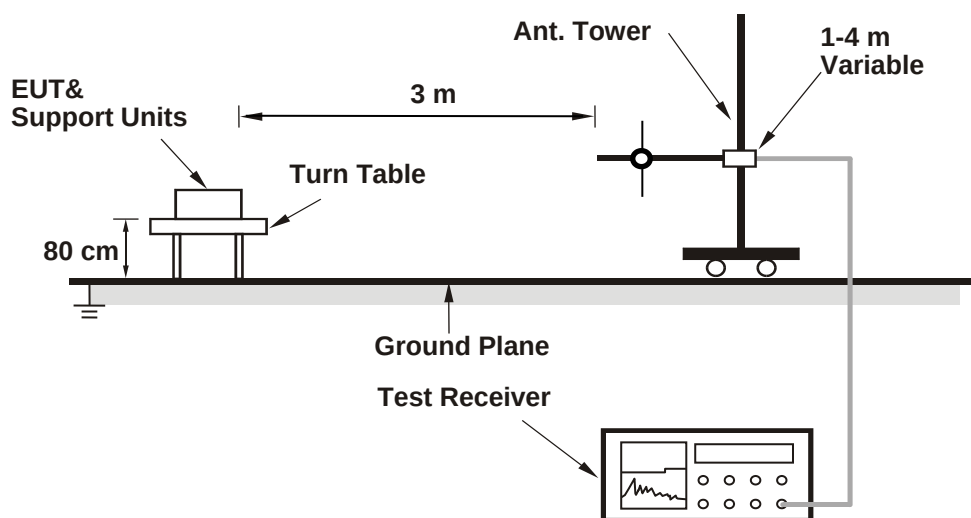
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

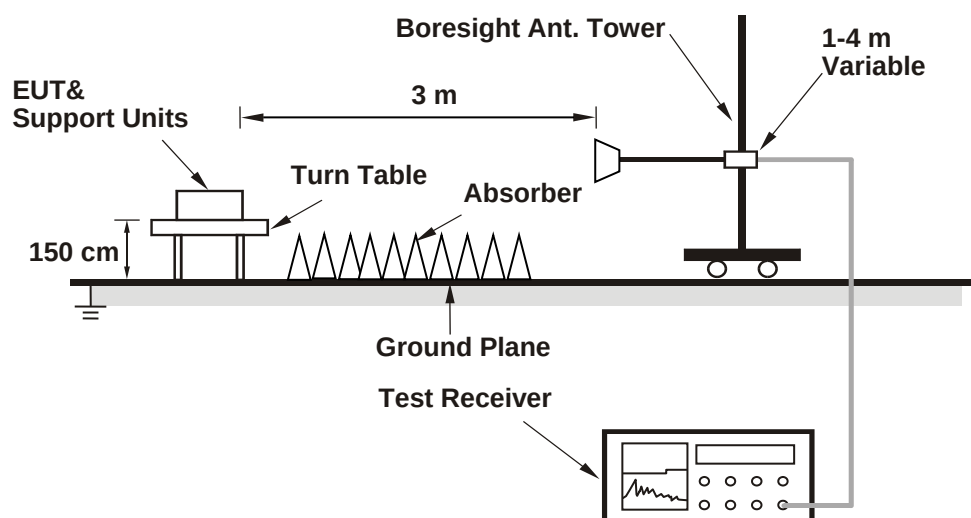
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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Chain 0

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	10.351	10.15	2.79	19.678	12.94	30	Pass
173	5865	10.257	10.11	2.32	17.499	12.43	30	Pass
177	5885	10	10.00	2.32	17.061	12.32	30	Pass

Notes:

1. For U-NII-3 & -4 span channel, The antenna gain is 2.79 dBi.
2. For U-NII-4, The antenna gain is 2.32 dBi.

Chain 1

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	10.304	10.13	3.04	20.749	13.17	30	Pass
173	5865	10.423	10.18	2.40	18.113	12.58	30	Pass
177	5885	10.423	10.18	2.40	18.113	12.58	30	Pass

Notes:

1. For U-NII-3 & -4 span channel, The antenna gain is 3.04 dBi.
2. For U-NII-4, The antenna gain is 2.4 dBi.

MIMO

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	8.58	8.34	14.034	11.47	3.04	28.261	14.51	30	Pass
173	5865	10.09	10.06	20.349	13.09	2.40	35.363	15.49	30	Pass
177	5885	10.00	10.10	20.233	13.06	2.40	35.161	15.46	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	9.99	9.97	19.908	12.99	3.04	40.089	16.03	30	Pass
173	5865	10.10	10.16	20.608	13.14	2.40	35.813	15.54	30	Pass
177	5885	10.00	10.02	20.046	13.02	2.40	34.836	15.42	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	10.02	9.98	20	13.01	3.04	40.274	16.05	30	Pass
173	5865	10.12	10.14	20.608	13.14	2.40	35.813	15.54	30	Pass
177	5885	10.01	10.13	20.327	13.08	2.40	35.324	15.48	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE20) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	10.09	10.03	20.279	13.07	3.04	40.836	16.11	30	Pass
173	5865	10.18	10.19	20.87	13.20	2.40	36.268	15.6	30	Pass
177	5885	10.03	10.16	20.445	13.11	2.40	35.529	15.51	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	10.09	10.11	20.466	13.11	3.04	41.213	16.15	30	Pass
175	5875	10.02	10.12	20.326	13.08	2.40	35.323	15.48	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE40) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	10.13	10.18	20.727	13.17	3.04	41.738	16.21	30	Pass
175	5875	10.05	10.18	20.539	13.13	2.40	35.693	15.53	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE80) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	10.03	10.07	20.232	13.06	3.04	40.742	16.1	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE80) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	10.11	10.13	20.56	13.13	3.04	41.402	16.17	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE160) 996-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	10.43	10.45	22.133	13.45	3.04	44.57	16.49	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE160) 996S-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	10.42	10.44	22.082	13.44	3.04	44.467	16.48	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

802.11ax (HE160) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	10.47	10.49	22.337	13.49	3.04	44.981	16.53	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3 & -4 span channel, The maximum gain is 3.04 dBi.
3. For U-NII-4, The maximum gain is 2.4 dBi.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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Chain 0

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	-2.37	2.79	0.42	14	Pass
173	5865	-2.47	2.32	-0.15	14	Pass
177	5885	-2.57	2.32	-0.25	14	Pass

Notes:

1. For U-NII-3 & -4 span channel, The antenna gain is 2.79 dBi.
2. For U-NII-4, The antenna gain is 2.32 dBi.

Chain 1

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	-2.45	3.04	0.59	14	Pass
173	5865	-2.35	2.40	0.05	14	Pass
177	5885	-2.37	2.40	0.03	14	Pass

Notes:

1. For U-NII-3 & -4 span channel, The antenna gain is 3.04 dBi.
2. For U-NII-4, The antenna gain is 2.4 dBi.

MIMO

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
169	5845	3.18	2.91	6.06	5.93	11.99	14	Pass
173	5865	5.53	5.28	8.42	5.37	13.79	14	Pass
177	5885	5.69	5.22	8.47	5.37	13.84	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
169	5845	2.91	2.84	5.89	5.93	11.82	14	Pass
173	5865	3.03	2.85	5.95	5.37	11.32	14	Pass
177	5885	2.98	2.69	5.85	5.37	11.22	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
169	5845	-0.34	-0.47	2.61	5.93	8.54	14	Pass
173	5865	-0.22	-0.41	2.70	5.37	8.07	14	Pass
177	5885	-0.36	-0.53	2.57	5.37	7.94	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE20) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
169	5845	-2.71	-2.76	0.28	5.93	6.21	14	Pass
173	5865	-2.66	-2.58	0.39	5.37	5.76	14	Pass
177	5885	-2.74	-2.57	0.36	5.37	5.73	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
167	5835	-2.85	-3.13	0.02	5.93	5.95	14	Pass
175	5875	-2.75	-3.05	0.11	5.37	5.48	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE40) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
167	5835	-5.86	-5.73	-2.78	5.93	3.15	14	Pass
175	5875	-5.90	-5.70	-2.79	5.37	2.58	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE80) 484-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
171	5855	-6.10	-6.55	-3.31	5.93	2.62	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE80) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
171	5855	-8.85	-8.79	-5.81	5.93	0.12	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE160) 996-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
163	5815	-8.56	-8.98	-5.75	5.93	0.18	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

802.11ax (HE160) 996S-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
163	5815	-8.67	-8.92	-5.78	5.93	0.15	14	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

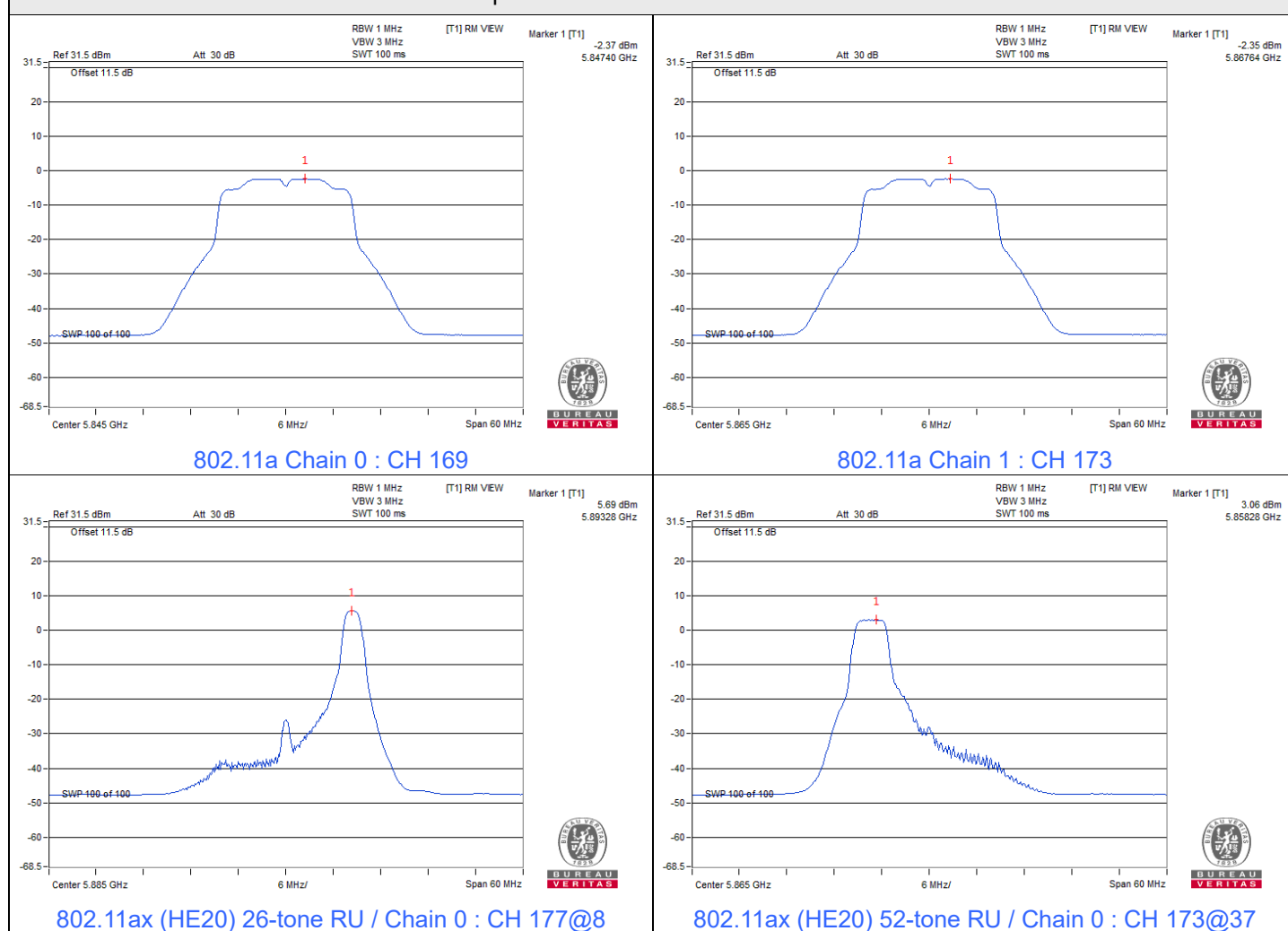
802.11ax (HE160) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1					
163	5815	-11.37	-11.41	-8.38	5.93	-2.45	14	Pass

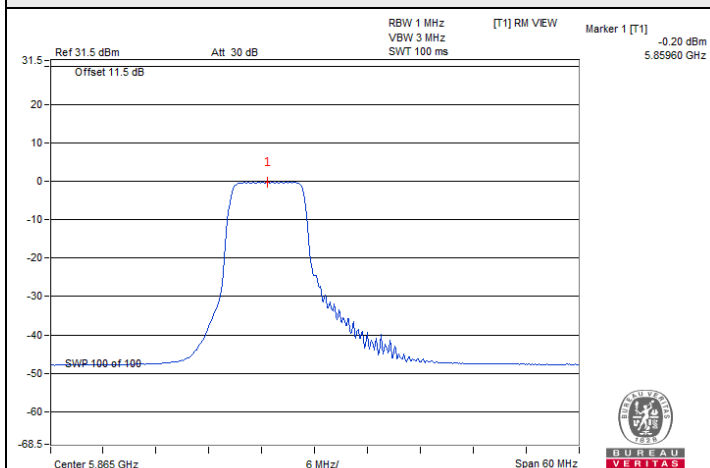
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3 & -4 span channel, The directional gain is 5.93 dBi.
4. For U-NII-4, The directional gain is 5.37 dBi.

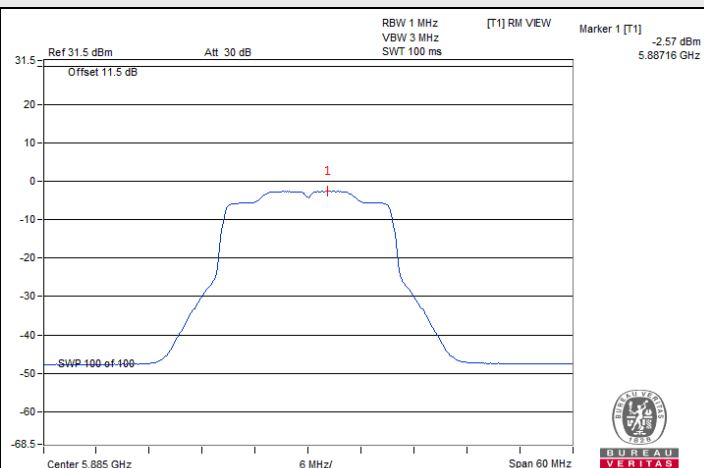
Spectrum Plot of Maximum Value



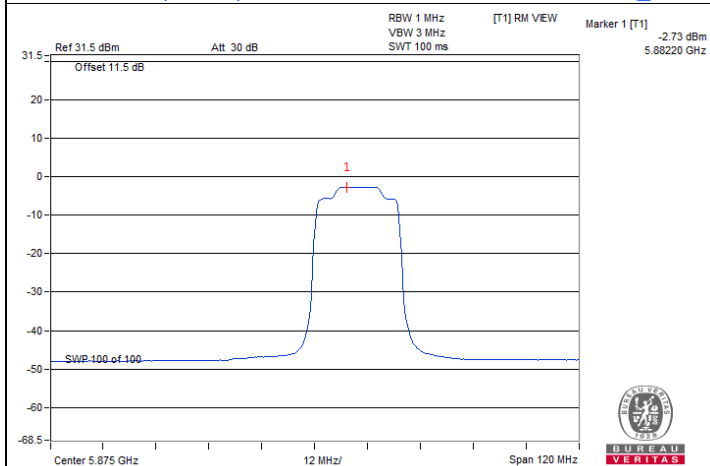
Spectrum Plot of Maximum Value



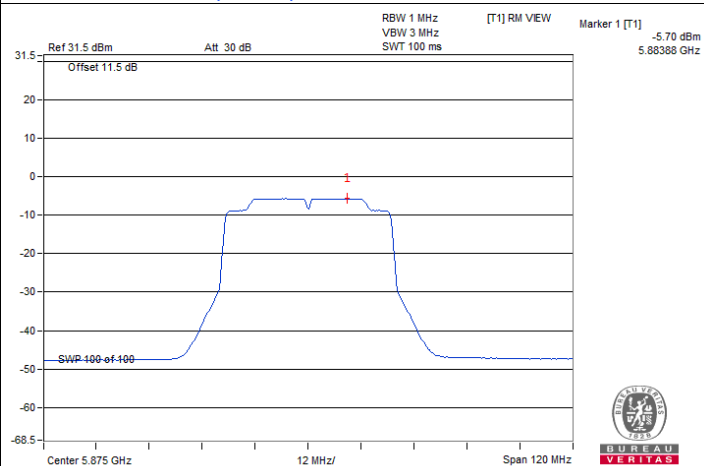
802.11ax (HE20) 106-tone RU / Chain 0 : CH 173@53



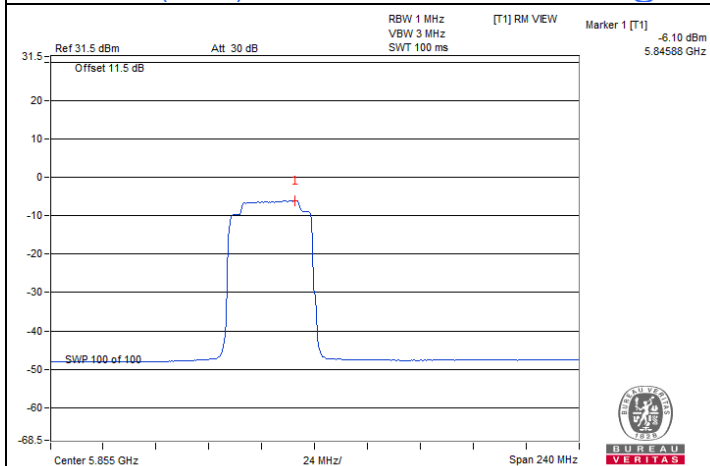
802.11ax (HE20) Full RU / Chain 1 : CH 177



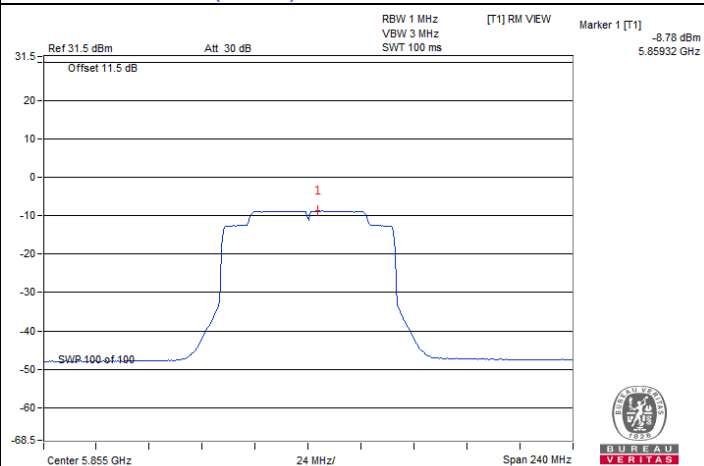
802.11ax (HE40) 242-tone RU / Chain 0 : CH 175@61



802.11ax (HE40) Full RU / Chain 1 : CH 175

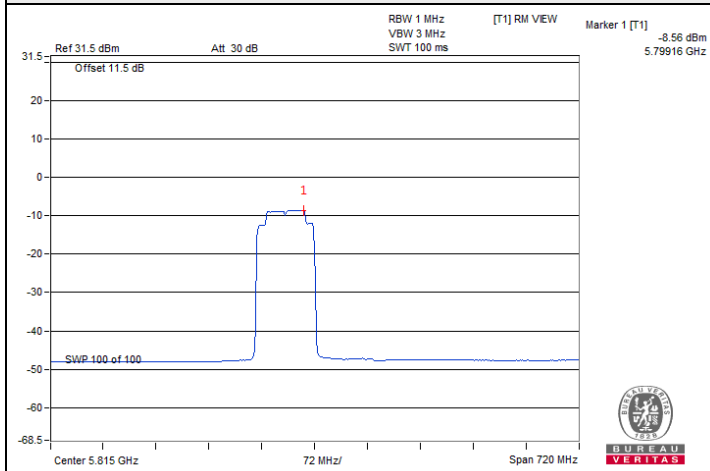


802.11ax (HE80) 484-tone RU / Chain 0 : CH 171@65

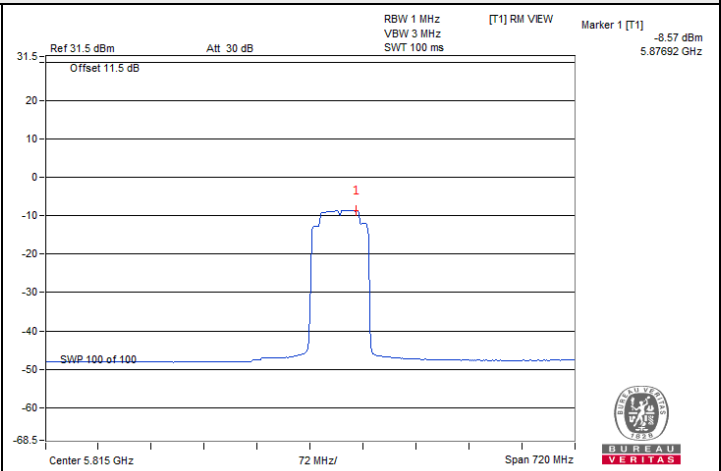


802.11ax (HE80) Full RU / Chain 1 : CH 171

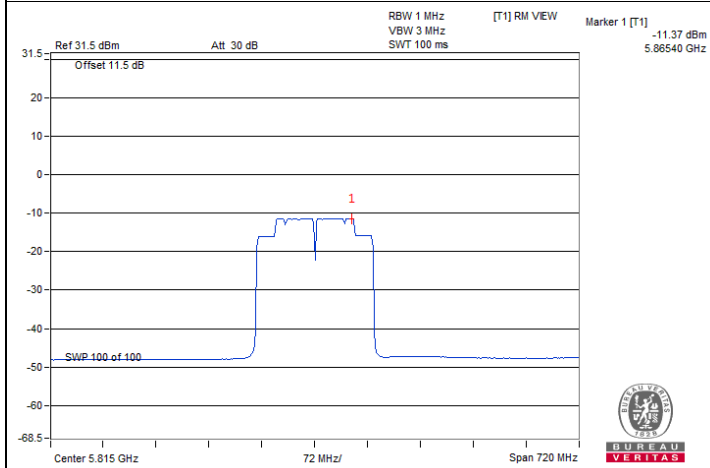
Spectrum Plot of Maximum Value



802.11ax (HE160) 996-tone RU / Chain 0 : CH 163@67



802.11ax (HE160) 996S-tone RU / Chain 0 : CH 163@68



802.11ax (HE160) Full RU / Chain 0 : CH 163

7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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Chain 0

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	15.53	0.5	Pass
173	5865	15.17	0.5	Pass
177	5885	15.18	0.5	Pass

Chain 1

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
169	5845	15.62	0.5	Pass
173	5865	15.19	0.5	Pass
177	5885	15.2	0.5	Pass

MIMO

802.11ax (HE20) Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	16.20	17.81	0.5	Pass
173	5865	16.97	16.62	0.5	Pass
177	5885	17.58	17.39	0.5	Pass

802.11ax (HE40) Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
167	5835	35.97	35.12	0.5	Pass
175	5875	35.27	35.08	0.5	Pass

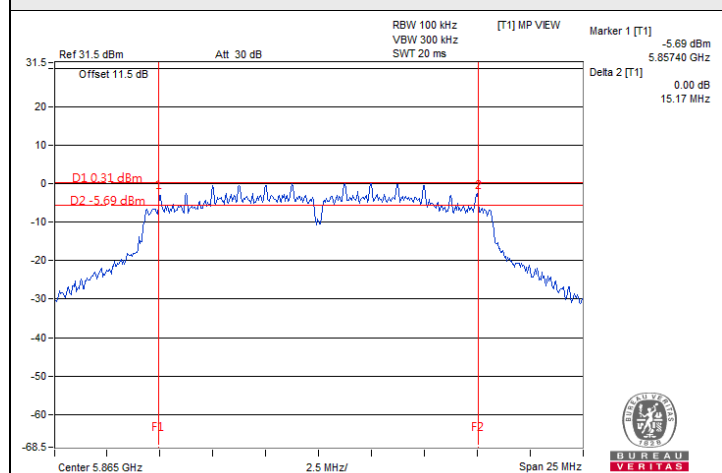
802.11ax (HE80) Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
171	5855	74.11	75.31	0.5	Pass

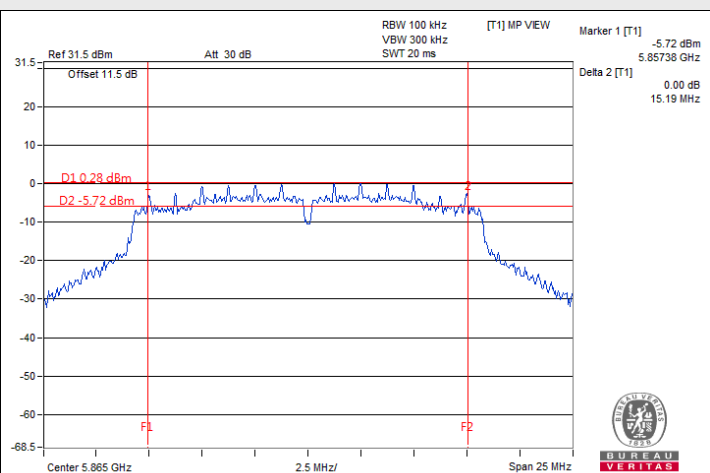
802.11ax (HE160) Full RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
163	5815	151.99	153.03	0.5	Pass

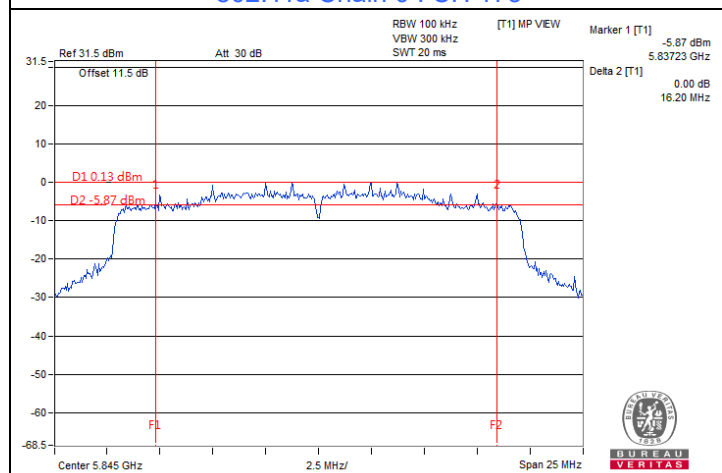
Spectrum Plot of Minimum Value



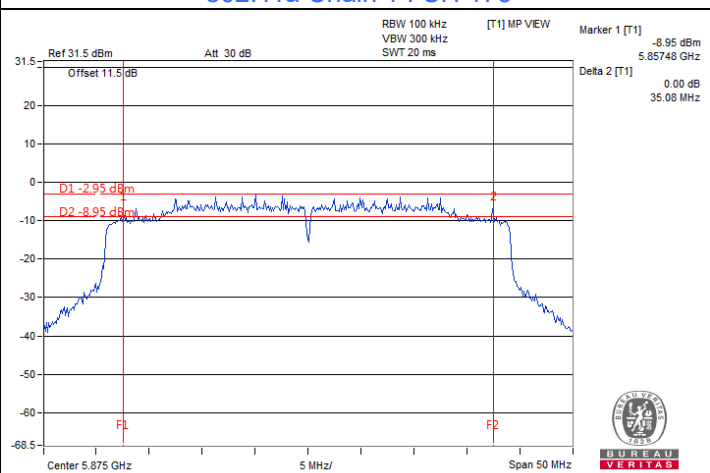
802.11a Chain 0 : CH 173



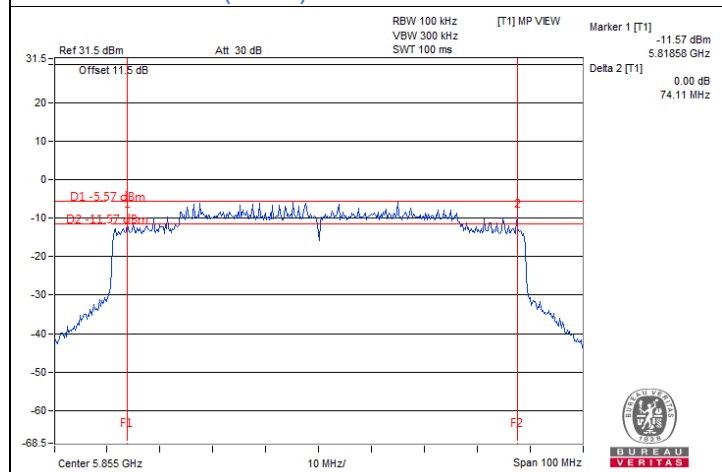
802.11a Chain 1 : CH 173



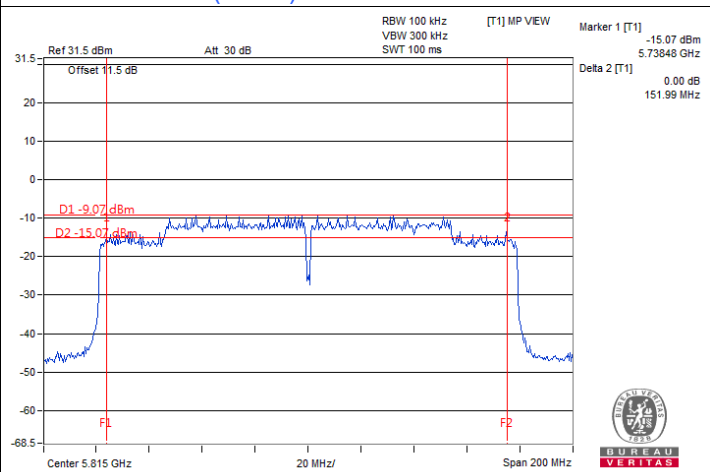
802.11ax (HE20) Full RU / Chain 0 : CH 169



802.11ax (HE40) Full RU / Chain 1 : CH 175



802.11ax (HE80) Full RU / Chain 0 : CH 171



802.11ax (HE160) Full RU / Chain 0 : CH 163

7.4 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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Frequency Stability Versus Temperature									
Operating Frequency: 5845 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
35	120	5845.0029	Pass	5845.0016	Pass	5845.0039	Pass	5845.0029	Pass
30	120	5845.0032	Pass	5845.0044	Pass	5845.0024	Pass	5845.0024	Pass
20	120	5844.9925	Pass	5844.9956	Pass	5844.9922	Pass	5844.9937	Pass
10	120	5844.9799	Pass	5844.976	Pass	5844.9803	Pass	5844.9807	Pass
0	120	5844.9932	Pass	5844.9929	Pass	5844.9922	Pass	5844.9942	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5845 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5844.9896	Pass	5844.9862	Pass	5844.9904	Pass	5844.9852	Pass
	120	5844.9925	Pass	5844.9956	Pass	5844.9922	Pass	5844.9937	Pass
	102	5845.0006	Pass	5845.001	Pass	5845.0026	Pass	5845.005	Pass

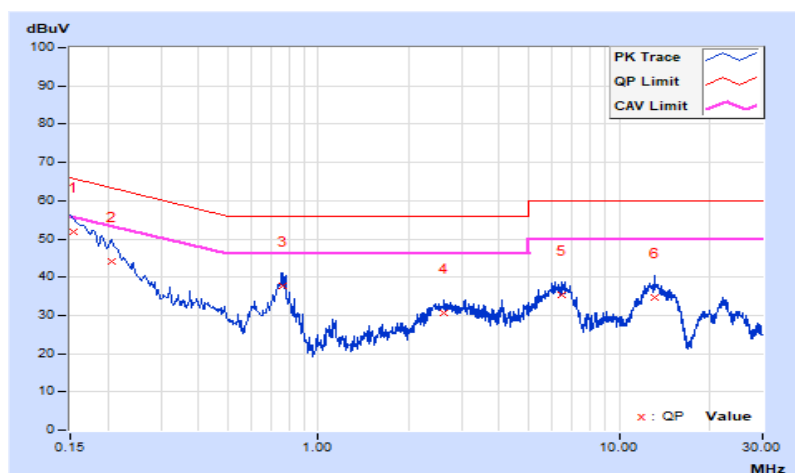
7.5 AC Power Conducted Emissions

RF Mode	802.11ax (HE160) Full RU	Channel	CH 163 : 5815 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Vincent Chen		

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	10.37	41.49	28.29	51.86	38.66	65.78	55.78	-13.92	-17.12
2	0.20577	10.40	33.75	22.13	44.15	32.53	63.37	53.37	-19.22	-20.84
3	0.75800	10.52	27.34	20.67	37.86	31.19	56.00	46.00	-18.14	-14.81
4	2.60400	10.58	19.95	14.71	30.53	25.29	56.00	46.00	-25.47	-20.71
5	6.48000	10.69	24.54	19.11	35.23	29.80	60.00	50.00	-24.77	-20.20
6	13.13600	10.80	23.90	18.17	34.70	28.97	60.00	50.00	-25.30	-21.03

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

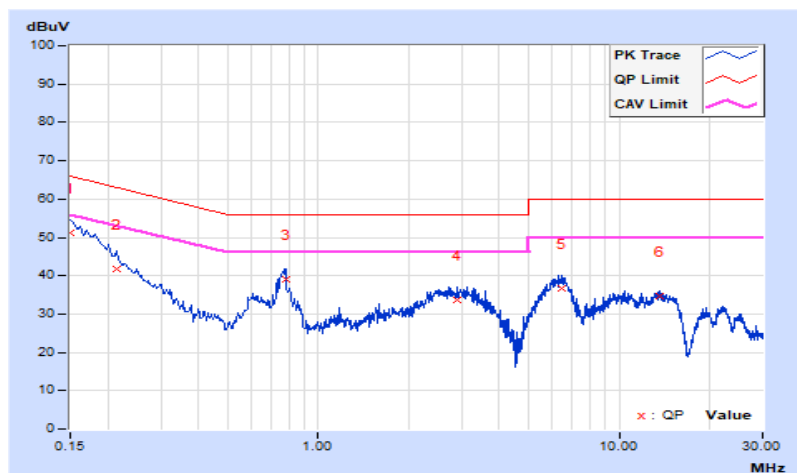


RF Mode	802.11ax (HE160) Full RU	Channel	CH 163 : 5815 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Vincent Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.40	40.78	27.10	51.18	37.50	66.00	56.00	-14.82	-18.50
2	0.21400	10.45	31.33	18.78	41.78	29.23	63.05	53.05	-21.27	-23.82
3	0.77800	10.55	28.37	23.87	38.92	34.42	56.00	46.00	-17.08	-11.58
4	2.88000	10.65	23.06	18.15	33.71	28.80	56.00	46.00	-22.29	-17.20
5	6.42000	10.78	25.83	20.61	36.61	31.39	60.00	50.00	-23.39	-18.61
6	13.56400	10.95	23.82	15.68	34.77	26.63	60.00	50.00	-25.23	-23.37

Remarks:

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



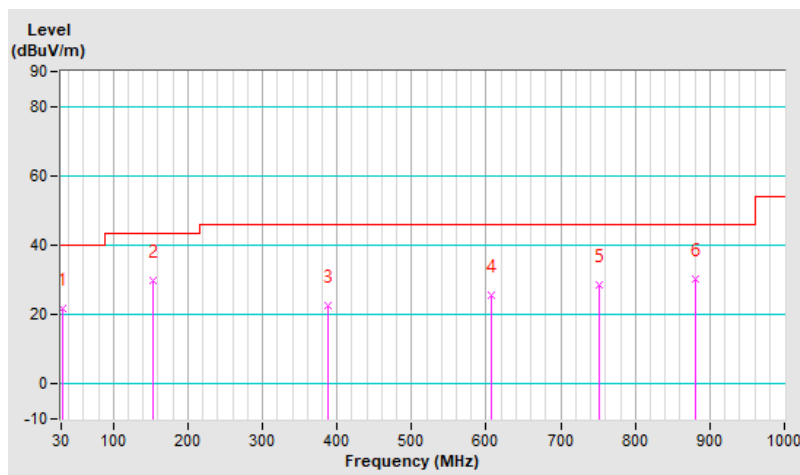
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE160) Full RU	Channel	CH 163 : 5815 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	21.8 QP	40.0	-18.2	1.50 H	42	34.9	-13.1
2	153.19	29.7 QP	43.5	-13.8	2.00 H	126	42.5	-12.8
3	387.93	22.6 QP	46.0	-23.4	2.00 H	18	32.6	-10.0
4	607.15	25.4 QP	46.0	-20.6	2.00 H	11	30.7	-5.3
5	751.68	28.4 QP	46.0	-17.6	1.50 H	28	30.4	-2.0
6	881.66	30.3 QP	46.0	-15.7	2.50 H	118	31.5	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

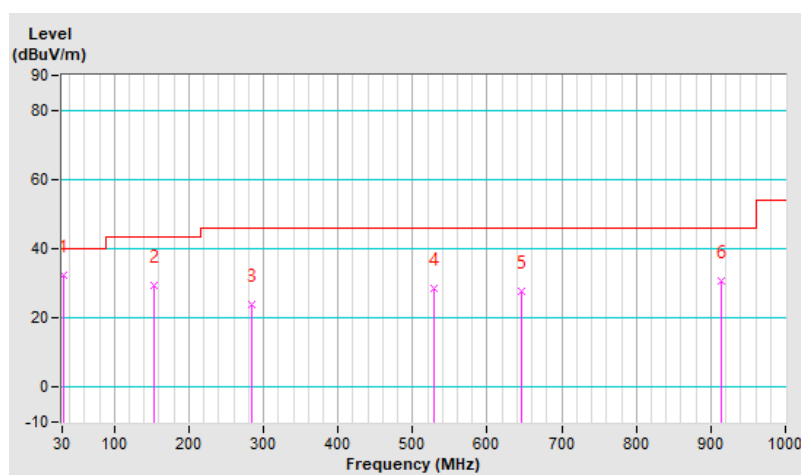


RF Mode	802.11ax (HE160) Full RU	Channel	CH 163 : 5815 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 65% RH
Tested By	Vincent Chen		

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	31.94	32.3 QP	40.0	-7.7	1.50 V	18	45.4	-13.1
2	153.19	29.3 QP	43.5	-14.2	1.00 V	184	42.1	-12.8
3	285.11	23.7 QP	46.0	-22.3	2.50 V	18	36.1	-12.4
4	529.55	28.6 QP	46.0	-17.4	1.00 V	238	35.1	-6.5
5	645.95	27.8 QP	46.0	-18.2	2.50 V	200	32.2	-4.4
6	913.67	30.8 QP	46.0	-15.2	1.49 V	188	31.6	-0.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



7.7 Unwanted Emissions above 1 GHz

Chain 0

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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.35 H	264	55.5	4.3
2	*5845.00	109.6 PK			1.35 H	264	67.0	42.6
3	*5845.00	99.2 AV			1.35 H	264	56.6	42.6
4	#5925.00	60.2 PK	68.2	-8.0	1.35 H	264	55.2	5.0
5	11690.00	57.6 PK	74.0	-16.4	2.02 H	36	48.2	9.4
6	11690.00	44.6 AV	54.0	-9.4	2.02 H	36	35.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.02 V	167	56.0	4.3
2	*5845.00	114.7 PK			1.02 V	167	72.1	42.6
3	*5845.00	104.6 AV			1.02 V	167	62.0	42.6
4	#5925.00	60.4 PK	68.2	-7.8	1.02 V	167	55.4	5.0
5	11690.00	57.6 PK	74.0	-16.4	2.05 V	35	48.2	9.4
6	11690.00	45.0 AV	54.0	-9.0	2.05 V	35	35.6	9.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

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	1.36 H	265	55.6	4.3
2	*5865.00	109.7 PK			1.36 H	265	67.1	42.6
3	*5865.00	99.2 AV			1.36 H	265	56.6	42.6
4	#5925.00	60.9 PK	68.2	-7.3	1.36 H	265	55.9	5.0
5	11730.00	56.9 PK	74.0	-17.1	1.88 H	52	47.6	9.3
6	11730.00	44.6 AV	54.0	-9.4	1.88 H	52	35.3	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.5 PK	68.2	-7.7	1.09 V	166	56.2	4.3
2	*5865.00	115.4 PK			1.09 V	166	72.8	42.6
3	*5865.00	105.1 AV			1.09 V	166	62.5	42.6
4	#5925.00	61.5 PK	68.2	-6.7	1.09 V	166	56.5	5.0
5	11730.00	57.7 PK	74.0	-16.3	2.05 V	45	48.4	9.3
6	11730.00	44.9 AV	54.0	-9.1	2.05 V	45	35.6	9.3

Remarks:

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

RF Mode	802.11a	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.33 H	263	55.5	4.3
2	*5885.00	108.1 PK			1.33 H	263	65.6	42.5
3	*5885.00	97.7 AV			1.33 H	263	55.2	42.5
4	#5895.00	88.3 PK	110.2	-21.9	1.33 H	263	83.3	5.0
5	#5895.00	76.7 AV	90.2	-13.5	1.33 H	263	71.7	5.0
6	#5925.00	59.7 PK	88.2	-28.5	1.33 H	263	54.7	5.0
7	#5925.00	48.6 AV	68.2	-19.6	1.33 H	263	43.6	5.0
8	11770.00	56.8 PK	74.0	-17.2	1.82 H	56	47.5	9.3
9	11770.00	44.6 AV	54.0	-9.4	1.82 H	56	35.3	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.10 V	166	56.0	4.3
2	*5885.00	112.6 PK			1.10 V	166	70.1	42.5
3	*5885.00	102.7 AV			1.10 V	166	60.2	42.5
4	#5895.00	95.0 PK	110.2	-15.2	1.10 V	166	90.0	5.0
5	#5895.00	81.8 AV	90.2	-8.4	1.10 V	166	76.8	5.0
6	#5925.00	60.9 PK	88.2	-27.3	1.10 V	166	55.9	5.0
7	#5925.00	49.2 AV	68.2	-19.0	1.10 V	166	44.2	5.0
8	11770.00	57.3 PK	74.0	-16.7	2.02 V	37	48.0	9.3
9	11770.00	44.9 AV	54.0	-9.1	2.02 V	37	35.6	9.3

Remarks:

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

Chain 1

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	23°C, 66% RH
Tested By	Titan Hsu		

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	60.1 PK	68.2	-8.1	1.07 H	193	55.8	4.3
2	*5845.00	108.3 PK			1.07 H	193	65.7	42.6
3	*5845.00	98.6 AV			1.07 H	193	56.0	42.6
4	#5925.00	60.4 PK	68.2	-7.8	1.07 H	193	55.4	5.0
5	11690.00	57.2 PK	74.0	-16.8	1.92 H	55	47.8	9.4
6	11690.00	44.7 AV	54.0	-9.3	1.92 H	55	35.3	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.9 PK	68.2	-7.3	1.11 V	171	56.6	4.3
2	*5845.00	113.2 PK			1.11 V	171	70.6	42.6
3	*5845.00	103.2 AV			1.11 V	171	60.6	42.6
4	#5925.00	61.0 PK	68.2	-7.2	1.11 V	171	56.0	5.0
5	11690.00	57.9 PK	74.0	-16.1	2.02 V	35	48.5	9.4
6	11690.00	45.2 AV	54.0	-8.8	2.02 V	35	35.8	9.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.03 H	192	55.5	4.3
2	*5865.00	108.0 PK			1.03 H	192	65.4	42.6
3	*5865.00	98.4 AV			1.03 H	192	55.8	42.6
4	#5925.00	60.6 PK	68.2	-7.6	1.03 H	192	55.6	5.0
5	11730.00	57.0 PK	74.0	-17.0	1.89 H	53	47.7	9.3
6	11730.00	44.5 AV	54.0	-9.5	1.89 H	53	35.2	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.9 PK	68.2	-8.3	1.08 V	171	55.6	4.3
2	*5865.00	113.2 PK			1.08 V	171	70.6	42.6
3	*5865.00	103.0 AV			1.08 V	171	60.4	42.6
4	#5925.00	61.0 PK	68.2	-7.2	1.08 V	171	56.0	5.0
5	11730.00	57.6 PK	74.0	-16.4	2.01 V	39	48.3	9.3
6	11730.00	44.8 AV	54.0	-9.2	2.01 V	39	35.5	9.3

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.05 H	191	55.5	4.3
2	*5885.00	106.6 PK			1.05 H	191	64.1	42.5
3	*5885.00	96.6 AV			1.05 H	191	54.1	42.5
4	#5895.00	87.0 PK	110.2	-23.2	1.05 H	191	82.0	5.0
5	#5895.00	75.2 AV	90.2	-15.0	1.05 H	191	70.2	5.0
6	#5925.00	60.5 PK	88.2	-27.7	1.05 H	191	55.5	5.0
7	#5925.00	48.7 AV	68.2	-19.5	1.05 H	191	43.7	5.0
8	11770.00	56.9 PK	74.0	-17.1	1.85 H	55	47.6	9.3
9	11770.00	44.5 AV	54.0	-9.5	1.85 H	55	35.2	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.07 V	171	56.0	4.3
2	*5885.00	111.0 PK			1.07 V	171	68.5	42.5
3	*5885.00	100.7 AV			1.07 V	171	58.2	42.5
4	#5895.00	91.2 PK	110.2	-19.0	1.07 V	171	86.2	5.0
5	#5895.00	79.2 AV	90.2	-11.0	1.07 V	171	74.2	5.0
6	#5925.00	61.3 PK	88.2	-26.9	1.07 V	171	56.3	5.0
7	#5925.00	49.0 AV	68.2	-19.2	1.07 V	171	44.0	5.0
8	11770.00	57.5 PK	74.0	-16.5	2.03 V	35	48.2	9.3
9	11770.00	44.8 AV	54.0	-9.2	2.03 V	35	35.5	9.3

Remarks:

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

MIMO

RF Mode	802.11ax (HE20) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	60.0 PK	68.2	-8.2	1.17 H	284	55.7	4.3
2	*5845.00	109.5 PK			1.17 H	284	66.9	42.6
3	*5845.00	97.6 AV			1.17 H	284	55.0	42.6
4	#5925.00	60.3 PK	68.2	-7.9	1.17 H	284	55.3	5.0
5	11690.00	57.2 PK	74.0	-16.8	2.02 H	59	47.8	9.4
6	11690.00	44.6 AV	54.0	-9.4	2.02 H	59	35.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.5 PK	68.2	-7.7	1.04 V	197	56.2	4.3
2	*5845.00	115.1 PK			1.04 V	197	72.5	42.6
3	*5845.00	102.9 AV			1.04 V	197	60.3	42.6
4	#5925.00	60.9 PK	68.2	-7.3	1.04 V	197	55.9	5.0
5	11690.00	57.9 PK	74.0	-16.1	2.02 V	25	48.5	9.4
6	11690.00	45.4 AV	54.0	-8.6	2.02 V	25	36.0	9.4

Remarks:

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

RF Mode	802.11ax (HE20) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.6 PK	68.2	-8.6	1.17 H	284	55.3	4.3
2	*5865.00	110.9 PK			1.17 H	284	68.3	42.6
3	*5865.00	98.6 AV			1.17 H	284	56.0	42.6
4	#5925.00	60.8 PK	68.2	-7.4	1.17 H	284	55.8	5.0
5	11730.00	57.0 PK	74.0	-17.0	2.05 H	52	47.7	9.3
6	11730.00	44.4 AV	54.0	-9.6	2.05 H	52	35.1	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.05 V	197	56.0	4.3
2	*5865.00	116.9 PK			1.05 V	197	74.3	42.6
3	*5865.00	104.7 AV			1.05 V	197	62.1	42.6
4	#5925.00	60.9 PK	68.2	-7.3	1.05 V	197	55.9	5.0
5	11730.00	57.5 PK	74.0	-16.5	2.05 V	22	48.2	9.3
6	11730.00	45.2 AV	54.0	-8.8	2.05 V	22	35.9	9.3

Remarks:

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

RF Mode	802.11ax (HE20) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.25 H	283	55.5	4.3
2	*5885.00	110.1 PK			1.25 H	283	67.6	42.5
3	*5885.00	98.1 AV			1.25 H	283	55.6	42.5
4	#5895.00	95.0 PK	110.2	-15.2	1.25 H	283	90.0	5.0
5	#5895.00	81.0 AV	90.2	-9.2	1.25 H	283	76.0	5.0
6	#5925.00	60.5 PK	88.2	-27.7	1.25 H	283	55.5	5.0
7	#5925.00	49.2 AV	68.2	-19.0	1.25 H	283	44.2	5.0
8	11730.00	57.1 PK	74.0	-16.9	2.06 H	59	47.8	9.3
9	11730.00	44.6 AV	54.0	-9.4	2.06 H	59	35.3	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.04 V	196	56.0	4.3
2	*5885.00	115.6 PK			1.04 V	196	73.1	42.5
3	*5885.00	102.5 AV			1.04 V	196	60.0	42.5
4	#5895.00	102.0 PK	110.2	-8.2	1.04 V	196	97.0	5.0
5	#5895.00	87.5 AV	90.2	-2.7	1.04 V	196	82.5	5.0
6	#5925.00	61.1 PK	88.2	-27.1	1.04 V	196	56.1	5.0
7	#5925.00	49.5 AV	68.2	-18.7	1.04 V	196	44.5	5.0
8	11770.00	57.5 PK	74.0	-16.5	2.02 V	23	48.2	9.3
9	11770.00	45.1 AV	54.0	-8.9	2.02 V	23	35.8	9.3

Remarks:

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

RF Mode	802.11ax (HE40) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	60.3 PK	68.2	-7.9	1.28 H	283	56.0	4.3
2	*5835.00	111.0 PK			1.28 H	283	68.4	42.6
3	*5835.00	98.2 AV			1.28 H	283	55.6	42.6
4	#5895.00	68.8 PK	90.2	-21.4	1.28 H	283	63.8	5.0
5	#5925.00	61.0 PK	68.2	-7.2	1.28 H	283	56.0	5.0
6	11670.00	56.9 PK	74.0	-17.1	2.06 H	55	47.6	9.3
7	11670.00	44.5 AV	54.0	-9.5	2.06 H	55	35.2	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	61.1 PK	68.2	-7.1	1.01 V	198	56.8	4.3
2	*5835.00	116.6 PK			1.01 V	198	74.0	42.6
3	*5835.00	103.9 AV			1.01 V	198	61.3	42.6
4	#5895.00	73.7 PK	90.2	-16.5	1.01 V	198	68.7	5.0
5	#5925.00	62.2 PK	68.2	-6.0	1.01 V	198	57.2	5.0
6	11670.00	57.3 PK	74.0	-16.7	2.00 V	29	48.0	9.3
7	11670.00	44.9 AV	54.0	-9.1	2.00 V	29	35.6	9.3

Remarks:

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

RF Mode	802.11ax (HE40) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.27 H	276	55.5	4.3
2	*5875.00	109.7 PK			1.27 H	276	67.2	42.5
3	*5875.00	97.3 AV			1.27 H	276	54.8	42.5
4	#5895.00	90.1 PK	110.2	-20.1	1.27 H	276	85.1	5.0
5	#5895.00	75.3 AV	90.2	-14.9	1.27 H	276	70.3	5.0
6	#5925.00	68.7 PK	88.2	-19.5	1.27 H	276	63.7	5.0
7	#5925.00	55.8 AV	68.2	-12.4	1.27 H	276	50.8	5.0
8	11750.00	56.9 PK	74.0	-17.1	2.02 H	55	47.6	9.3
9	11750.00	44.5 AV	54.0	-9.5	2.02 H	55	35.2	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.0 PK	68.2	-8.2	1.03 V	199	55.7	4.3
2	*5875.00	115.1 PK			1.03 V	199	72.6	42.5
3	*5875.00	103.0 AV			1.03 V	199	60.5	42.5
4	#5895.00	96.2 PK	110.2	-14.0	1.03 V	199	91.2	5.0
5	#5895.00	80.6 AV	90.2	-9.6	1.03 V	199	75.6	5.0
6	#5925.00	74.0 PK	88.2	-14.2	1.03 V	199	69.0	5.0
7	#5925.00	59.7 AV	68.2	-8.5	1.03 V	199	54.7	5.0
8	11750.00	57.3 PK	74.0	-16.7	2.06 V	25	48.0	9.3
9	11750.00	44.8 AV	54.0	-9.2	2.06 V	25	35.5	9.3

Remarks:

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

RF Mode	802.11ax (HE80) Full RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	60.3 PK	68.2	-7.9	1.28 H	280	56.0	4.3
2	*5855.00	107.6 PK			1.28 H	280	65.0	42.6
3	*5855.00	95.9 AV			1.28 H	280	53.3	42.6
4	#5895.00	88.7 PK	110.2	-21.5	1.28 H	280	83.7	5.0
5	#5895.00	74.0 AV	90.2	-16.2	1.28 H	280	69.0	5.0
6	#5925.00	78.8 PK	88.2	-9.4	1.28 H	280	73.8	5.0
7	#5925.00	65.5 AV	68.2	-2.7	1.28 H	280	60.5	5.0
8	11710.00	56.9 PK	74.0	-17.1	2.05 H	49	47.5	9.4
9	11710.00	44.4 AV	54.0	-9.6	2.05 H	49	35.0	9.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	62.0 PK	68.2	-6.2	1.06 V	175	57.7	4.3
2	*5855.00	114.2 PK			1.06 V	175	71.6	42.6
3	*5855.00	101.4 AV			1.06 V	175	58.8	42.6
4	#5895.00	94.6 PK	110.2	-15.6	1.06 V	175	89.6	5.0
5	#5895.00	78.3 AV	90.2	-11.9	1.06 V	175	73.3	5.0
6	#5925.00	82.2 PK	88.2	-6.0	1.06 V	175	77.2	5.0
7	#5925.00	67.5 AV	68.2	-0.7	1.06 V	175	62.5	5.0
8	11710.00	57.2 PK	74.0	-16.8	2.08 V	22	47.8	9.4
9	11710.00	44.6 AV	54.0	-9.4	2.08 V	22	35.2	9.4

Remarks:

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

RF Mode	802.11ax (HE160) Full RU	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	64.3 PK	68.2	-3.9	1.25 H	273	60.0	4.3
2	*5815.00	101.1 PK			1.25 H	273	58.5	42.6
3	*5815.00	88.9 AV			1.25 H	273	46.3	42.6
4	#5895.00	78.3 PK	110.2	-31.9	1.25 H	273	73.3	5.0
5	#5895.00	60.3 AV	90.2	-29.9	1.25 H	273	55.3	5.0
6	#5925.00	69.4 PK	88.2	-18.8	1.25 H	273	64.4	5.0
7	#5925.00	55.7 AV	68.2	-12.5	1.25 H	273	50.7	5.0
8	11630.00	56.8 PK	74.0	-17.2	2.05 H	59	47.5	9.3
9	11630.00	44.4 AV	54.0	-9.6	2.05 H	59	35.1	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	67.5 PK	68.2	-0.7	1.13 V	174	63.2	4.3
2	*5815.00	108.8 PK			1.13 V	174	66.2	42.6
3	*5815.00	96.6 AV			1.13 V	174	54.0	42.6
4	#5895.00	84.8 PK	110.2	-25.4	1.13 V	174	79.8	5.0
5	#5895.00	61.0 AV	90.2	-29.2	1.13 V	174	56.0	5.0
6	#5925.00	73.9 PK	88.2	-14.3	1.13 V	174	68.9	5.0
7	#5925.00	59.2 AV	68.2	-9.0	1.13 V	174	54.2	5.0
8	11630.00	57.0 PK	74.0	-17.0	2.11 V	25	47.7	9.3
9	11630.00	44.6 AV	54.0	-9.4	2.11 V	25	35.3	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.7 PK	68.2	-8.5	1.15 H	284	55.4	4.3
2	*5845.00	101.3 PK			1.15 H	284	58.7	42.6
3	*5845.00	92.7 AV			1.15 H	284	50.1	42.6
4	#5925.00	60.2 PK	68.2	-8.0	1.15 H	284	55.2	5.0
5	11690.00	57.1 PK	74.0	-16.9	2.03 H	55	47.7	9.4
6	11690.00	44.6 AV	54.0	-9.4	2.03 H	55	35.2	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.1 PK	68.2	-8.1	1.17 V	200	55.8	4.3
2	*5845.00	108.5 PK			1.17 V	200	65.9	42.6
3	*5845.00	100.2 AV			1.17 V	200	57.6	42.6
4	#5925.00	60.6 PK	68.2	-7.6	1.17 V	200	55.6	5.0
5	11690.00	57.6 PK	74.0	-16.4	2.05 V	26	48.2	9.4
6	11690.00	44.9 AV	54.0	-9.1	2.05 V	26	35.5	9.4

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.6 PK	68.2	-8.6	1.32 H	284	55.3	4.3
2	*5865.00	107.8 PK			1.32 H	284	65.2	42.6
3	*5865.00	97.9 AV			1.32 H	284	55.3	42.6
4	#5925.00	60.3 PK	68.2	-7.9	1.32 H	284	55.3	5.0
5	11730.00	56.8 PK	74.0	-17.2	2.03 H	55	47.5	9.3
6	11730.00	44.3 AV	54.0	-9.7	2.03 H	55	35.0	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.9 PK	68.2	-8.3	1.05 V	199	55.6	4.3
2	*5865.00	114.4 PK			1.05 V	199	71.8	42.6
3	*5865.00	104.2 AV			1.05 V	199	61.6	42.6
4	#5925.00	60.7 PK	68.2	-7.5	1.05 V	199	55.7	5.0
5	11730.00	57.5 PK	74.0	-16.5	2.02 V	25	48.2	9.3
6	11730.00	45.1 AV	54.0	-8.9	2.02 V	25	35.8	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.6 PK	68.2	-8.6	1.27 H	284	55.3	4.3
2	*5885.00	107.9 PK			1.27 H	284	65.4	42.5
3	*5885.00	98.1 AV			1.27 H	284	55.6	42.5
4	#5895.00	94.7 PK	110.2	-15.5	1.27 H	284	89.7	5.0
5	#5895.00	84.7 AV	90.2	-5.5	1.27 H	284	79.7	5.0
6	#5925.00	60.0 PK	88.2	-28.2	1.27 H	284	55.0	5.0
7	#5925.00	49.2 AV	68.2	-19.0	1.27 H	284	44.2	5.0
8	11770.00	57.0 PK	74.0	-17.0	2.01 H	55	47.7	9.3
9	11770.00	44.7 AV	54.0	-9.3	2.01 H	55	35.4	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.8 PK	68.2	-8.4	1.00 V	200	55.5	4.3
2	*5885.00	113.3 PK			1.00 V	200	70.8	42.5
3	*5885.00	103.3 AV			1.00 V	200	60.8	42.5
4	#5895.00	101.2 PK	110.2	-9.0	1.00 V	200	96.2	5.0
5	#5895.00	89.8 AV	90.2	-0.4	1.00 V	200	84.8	5.0
6	#5925.00	60.2 PK	88.2	-28.0	1.00 V	200	55.2	5.0
7	#5925.00	49.5 AV	68.2	-18.7	1.00 V	200	44.5	5.0
8	11770.00	57.3 PK	74.0	-16.7	2.02 V	26	48.0	9.3
9	11770.00	45.0 AV	54.0	-9.0	2.02 V	26	35.7	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.5 PK	68.2	-8.7	1.15 H	284	55.2	4.3
2	*5845.00	104.5 PK			1.15 H	284	61.9	42.6
3	*5845.00	93.1 AV			1.15 H	284	50.5	42.6
4	#5925.00	60.4 PK	68.2	-7.8	1.15 H	284	55.4	5.0
5	11690.00	57.1 PK	74.0	-16.9	2.05 H	61	47.7	9.4
6	11690.00	44.7 AV	54.0	-9.3	2.05 H	61	35.3	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.17 V	200	56.0	4.3
2	*5845.00	110.1 PK			1.17 V	200	67.5	42.6
3	*5845.00	100.5 AV			1.17 V	200	57.9	42.6
4	#5925.00	61.4 PK	68.2	-6.8	1.17 V	200	56.4	5.0
5	11690.00	57.7 PK	74.0	-16.3	2.05 V	27	48.3	9.4
6	11690.00	45.2 AV	54.0	-8.8	2.05 V	27	35.8	9.4

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.5 PK	68.2	-8.7	1.32 H	284	55.2	4.3
2	*5865.00	109.9 PK			1.32 H	284	67.3	42.6
3	*5865.00	98.2 AV			1.32 H	284	55.6	42.6
4	#5925.00	60.4 PK	68.2	-7.8	1.32 H	284	55.4	5.0
5	11730.00	56.9 PK	74.0	-17.1	2.07 H	59	47.6	9.3
6	11730.00	44.5 AV	54.0	-9.5	2.07 H	59	35.2	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.2 PK	68.2	-8.0	1.05 V	199	55.9	4.3
2	*5865.00	116.5 PK			1.05 V	199	73.9	42.6
3	*5865.00	104.7 AV			1.05 V	199	62.1	42.6
4	#5925.00	60.5 PK	68.2	-7.7	1.05 V	199	55.5	5.0
5	11730.00	57.3 PK	74.0	-16.7	2.11 V	26	48.0	9.3
6	11730.00	45.0 AV	54.0	-9.0	2.11 V	26	35.7	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.6 PK	68.2	-8.6	1.27 H	284	55.3	4.3
2	*5885.00	110.2 PK			1.27 H	284	67.7	42.5
3	*5885.00	98.4 AV			1.27 H	284	55.9	42.5
4	#5895.00	96.4 PK	110.2	-13.8	1.27 H	284	91.4	5.0
5	#5895.00	85.0 AV	90.2	-5.2	1.27 H	284	80.0	5.0
6	#5925.00	60.5 PK	88.2	-27.7	1.27 H	284	55.5	5.0
7	#5925.00	48.8 AV	68.2	-19.4	1.27 H	284	43.8	5.0
8	11770.00	56.9 PK	74.0	-17.1	2.05 H	62	47.6	9.3
9	11770.00	44.5 AV	54.0	-9.5	2.05 H	62	35.2	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.0 PK	68.2	-8.2	1.00 V	200	55.7	4.3
2	*5885.00	115.2 PK			1.00 V	200	72.7	42.5
3	*5885.00	103.7 AV			1.00 V	200	61.2	42.5
4	#5895.00	103.0 PK	110.2	-7.2	1.00 V	200	98.0	5.0
5	#5895.00	90.0 AV	90.2	-0.2	1.00 V	200	85.0	5.0
6	#5925.00	60.8 PK	88.2	-27.4	1.00 V	200	55.8	5.0
7	#5925.00	49.0 AV	68.2	-19.2	1.00 V	200	44.0	5.0
8	11770.00	57.5 PK	74.0	-16.5	2.05 V	22	48.2	9.3
9	11770.00	45.1 AV	54.0	-8.9	2.05 V	22	35.8	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.5 PK	68.2	-8.7	1.15 H	284	55.2	4.3
2	*5845.00	104.8 PK			1.15 H	284	62.2	42.6
3	*5845.00	93.2 AV			1.15 H	284	50.6	42.6
4	#5925.00	60.3 PK	68.2	-7.9	1.15 H	284	55.3	5.0
5	11690.00	56.9 PK	74.0	-17.1	2.10 H	55	47.5	9.4
6	11690.00	44.7 AV	54.0	-9.3	2.10 H	55	35.3	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.17 V	200	56.0	4.3
2	*5845.00	112.6 PK			1.17 V	200	70.0	42.6
3	*5845.00	100.1 AV			1.17 V	200	57.5	42.6
4	#5925.00	65.5 PK	68.2	-2.7	1.17 V	200	60.5	5.0
5	11690.00	57.6 PK	74.0	-16.4	2.05 V	27	48.2	9.4
6	11690.00	45.4 AV	54.0	-8.6	2.05 V	27	36.0	9.4

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.5 PK	68.2	-8.7	1.32 H	284	55.2	4.3
2	*5865.00	110.1 PK			1.32 H	284	67.5	42.6
3	*5865.00	97.9 AV			1.32 H	284	55.3	42.6
4	#5925.00	60.5 PK	68.2	-7.7	1.32 H	284	55.5	5.0
5	11730.00	56.9 PK	74.0	-17.1	2.02 H	59	47.6	9.3
6	11730.00	44.5 AV	54.0	-9.5	2.02 H	59	35.2	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.0 PK	68.2	-8.2	1.05 V	199	55.7	4.3
2	*5865.00	116.1 PK			1.05 V	199	73.5	42.6
3	*5865.00	104.7 AV			1.05 V	199	62.1	42.6
4	#5925.00	61.0 PK	68.2	-7.2	1.05 V	199	56.0	5.0
5	11730.00	57.5 PK	74.0	-16.5	2.02 V	26	48.2	9.3
6	11730.00	45.1 AV	54.0	-8.9	2.02 V	26	35.8	9.3

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.5 PK	68.2	-8.7	1.27 H	284	55.2	4.3
2	*5885.00	108.5 PK			1.27 H	284	66.0	42.5
3	*5885.00	96.8 AV			1.27 H	284	54.3	42.5
4	#5895.00	97.6 PK	110.2	-12.6	1.27 H	284	92.6	5.0
5	#5895.00	84.7 AV	90.2	-5.5	1.27 H	284	79.7	5.0
6	#5925.00	60.5 PK	88.2	-27.7	1.27 H	284	55.5	5.0
7	#5925.00	49.0 AV	68.2	-19.2	1.27 H	284	44.0	5.0
8	11770.00	57.0 PK	74.0	-17.0	2.11 H	59	47.7	9.3
9	11770.00	44.6 AV	54.0	-9.4	2.11 H	59	35.3	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	59.7 PK	68.2	-8.5	1.00 V	200	55.4	4.3
2	*5885.00	114.0 PK			1.00 V	200	71.5	42.5
3	*5885.00	102.2 AV			1.00 V	200	59.7	42.5
4	#5895.00	101.3 PK	110.2	-8.9	1.00 V	200	96.3	5.0
5	#5895.00	89.9 AV	90.2	-0.3	1.00 V	200	84.9	5.0
6	#5925.00	60.8 PK	88.2	-27.4	1.00 V	200	55.8	5.0
7	#5925.00	49.1 AV	68.2	-19.1	1.00 V	200	44.1	5.0
8	11770.00	57.4 PK	74.0	-16.6	2.08 V	25	48.1	9.3
9	11770.00	45.0 AV	54.0	-9.0	2.08 V	25	35.7	9.3

Remarks:

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

RF Mode	802.11ax (HE40) 242-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.26 H	281	55.5	4.3
2	*5835.00	110.5 PK			1.26 H	281	67.9	42.6
3	*5835.00	97.8 AV			1.26 H	281	55.2	42.6
4	#5925.00	60.4 PK	68.2	-7.8	1.26 H	281	55.4	5.0
5	11670.00	56.8 PK	74.0	-17.2	2.11 H	61	47.5	9.3
6	11670.00	44.3 AV	54.0	-9.7	2.11 H	61	35.0	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.0 PK	68.2	-8.2	1.17 V	200	55.7	4.3
2	*5835.00	116.5 PK			1.17 V	200	73.9	42.6
3	*5835.00	104.3 AV			1.17 V	200	61.7	42.6
4	#5925.00	60.7 PK	68.2	-7.5	1.17 V	200	55.7	5.0
5	11670.00	57.3 PK	74.0	-16.7	2.09 V	21	48.0	9.3
6	11670.00	44.9 AV	54.0	-9.1	2.09 V	21	35.6	9.3

Remarks:

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

RF Mode	802.11ax (HE40) 242-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.7 PK	68.2	-8.5	1.27 H	274	55.4	4.3
2	*5875.00	107.3 PK			1.27 H	274	64.8	42.5
3	*5875.00	95.3 AV			1.27 H	274	52.8	42.5
4	#5895.00	87.7 PK	110.2	-22.5	1.27 H	274	82.7	5.0
5	#5895.00	74.0 AV	90.2	-16.2	1.27 H	274	69.0	5.0
6	#5925.00	60.5 PK	88.2	-27.7	1.27 H	274	55.5	5.0
7	#5925.00	49.2 AV	68.2	-19.0	1.27 H	274	44.2	5.0
8	11750.00	56.8 PK	74.0	-17.2	2.02 H	59	47.5	9.3
9	11750.00	44.3 AV	54.0	-9.7	2.02 H	59	35.0	9.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.3 PK	68.2	-7.9	1.03 V	199	56.0	4.3
2	*5875.00	114.3 PK			1.03 V	199	71.8	42.5
3	*5875.00	101.5 AV			1.03 V	199	59.0	42.5
4	#5895.00	96.4 PK	110.2	-13.8	1.03 V	199	91.4	5.0
5	#5895.00	80.6 AV	90.2	-9.6	1.03 V	199	75.6	5.0
6	#5925.00	61.6 PK	88.2	-26.6	1.03 V	199	56.6	5.0
7	#5925.00	49.5 AV	68.2	-18.7	1.03 V	199	44.5	5.0
8	11750.00	57.3 PK	74.0	-16.7	2.01 V	20	48.0	9.3
9	11750.00	44.7 AV	54.0	-9.3	2.01 V	20	35.4	9.3

Remarks:

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

RF Mode	802.11ax (HE80) 484-tone RU	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	23°C, 66% RH
Tested By	Titan Hsu		

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	59.8 PK	68.2	-8.4	1.26 H	275	55.5	4.3
2	*5855.00	108.0 PK			1.26 H	275	65.4	42.6
3	*5855.00	95.7 AV			1.26 H	275	53.1	42.6
4	#5895.00	87.7 PK	110.2	-22.5	1.26 H	275	82.7	5.0
5	#5895.00	75.4 AV	90.2	-14.8	1.26 H	275	70.4	5.0
6	#5925.00	69.3 PK	88.2	-18.9	1.26 H	275	64.3	5.0
7	#5925.00	57.5 AV	68.2	-10.7	1.26 H	275	52.5	5.0
8	11710.00	56.8 PK	74.0	-17.2	2.07 H	48	47.4	9.4
9	11710.00	44.2 AV	54.0	-9.8	2.07 H	48	34.8	9.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	60.1 PK	68.2	-8.1	1.12 V	199	55.8	4.3
2	*5855.00	114.2 PK			1.12 V	199	71.6	42.6
3	*5855.00	101.7 AV			1.12 V	199	59.1	42.6
4	#5895.00	93.7 PK	110.2	-16.5	1.12 V	199	88.7	5.0
5	#5895.00	81.1 AV	90.2	-9.1	1.12 V	199	76.1	5.0
6	#5925.00	74.6 PK	88.2	-13.6	1.12 V	199	69.6	5.0
7	#5925.00	61.7 AV	68.2	-6.5	1.12 V	199	56.7	5.0
8	11710.00	57.1 PK	74.0	-16.9	2.11 V	25	47.7	9.4
9	11710.00	44.7 AV	54.0	-9.3	2.11 V	25	35.3	9.4

Remarks:

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

RF Mode	802.11ax (HE160) 996-tone RU	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	64.8 PK	68.2	-3.4	1.23 H	275	60.5	4.3
2	*5815.00	102.5 PK			1.23 H	275	59.9	42.6
3	*5815.00	89.2 AV			1.23 H	275	46.6	42.6
4	#5895.00	62.0 PK	90.2	-28.2	1.23 H	275	57.0	5.0
5	#5925.00	62.6 PK	68.2	-5.6	1.23 H	275	57.6	5.0
6	11630.00	56.6 PK	74.0	-17.4	2.05 H	54	47.3	9.3
7	11630.00	44.0 AV	54.0	-10.0	2.05 H	54	34.7	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	67.3 PK	68.2	-0.9	1.12 V	183	63.0	4.3
2	*5815.00	107.8 PK			1.12 V	183	65.2	42.6
3	*5815.00	95.4 AV			1.12 V	183	52.8	42.6
4	#5895.00	66.4 PK	90.2	-23.8	1.12 V	183	61.4	5.0
5	#5925.00	65.6 PK	68.2	-2.6	1.12 V	183	60.6	5.0
6	11630.00	56.9 PK	74.0	-17.1	2.12 V	28	47.6	9.3
7	11630.00	44.3 AV	54.0	-9.7	2.12 V	28	35.0	9.3

Remarks:

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

RF Mode	802.11ax (HE160) 996-tone RU RU996S	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	63.5 PK	68.2	-4.7	1.23 H	275	59.2	4.3
2	*5815.00	102.7 PK			1.23 H	275	60.1	42.6
3	*5815.00	89.6 AV			1.23 H	275	47.0	42.6
4	#5895.00	80.8 PK	110.2	-29.4	1.23 H	275	75.8	5.0
5	#5895.00	63.4 AV	90.2	-26.8	1.23 H	275	58.4	5.0
6	#5925.00	67.7 PK	88.2	-20.5	1.23 H	275	62.7	5.0
7	#5925.00	55.2 AV	68.2	-13.0	1.23 H	275	50.2	5.0
8	11630.00	56.5 PK	74.0	-17.5	2.06 H	55	47.2	9.3
9	11630.00	44.0 AV	54.0	-10.0	2.06 H	55	34.7	9.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	64.1 PK	68.2	-4.1	1.12 V	183	59.8	4.3
2	*5815.00	107.6 PK			1.12 V	183	65.0	42.6
3	*5815.00	94.2 AV			1.12 V	183	51.6	42.6
4	#5895.00	87.0 PK	110.2	-23.2	1.12 V	183	82.0	5.0
5	#5895.00	67.8 AV	90.2	-22.4	1.12 V	183	62.8	5.0
6	#5925.00	72.4 PK	88.2	-15.8	1.12 V	183	67.4	5.0
7	#5925.00	58.8 AV	68.2	-9.4	1.12 V	183	53.8	5.0
8	11630.00	56.8 PK	74.0	-17.2	2.15 V	26	47.5	9.3
9	11630.00	44.4 AV	54.0	-9.6	2.15 V	26	35.1	9.3

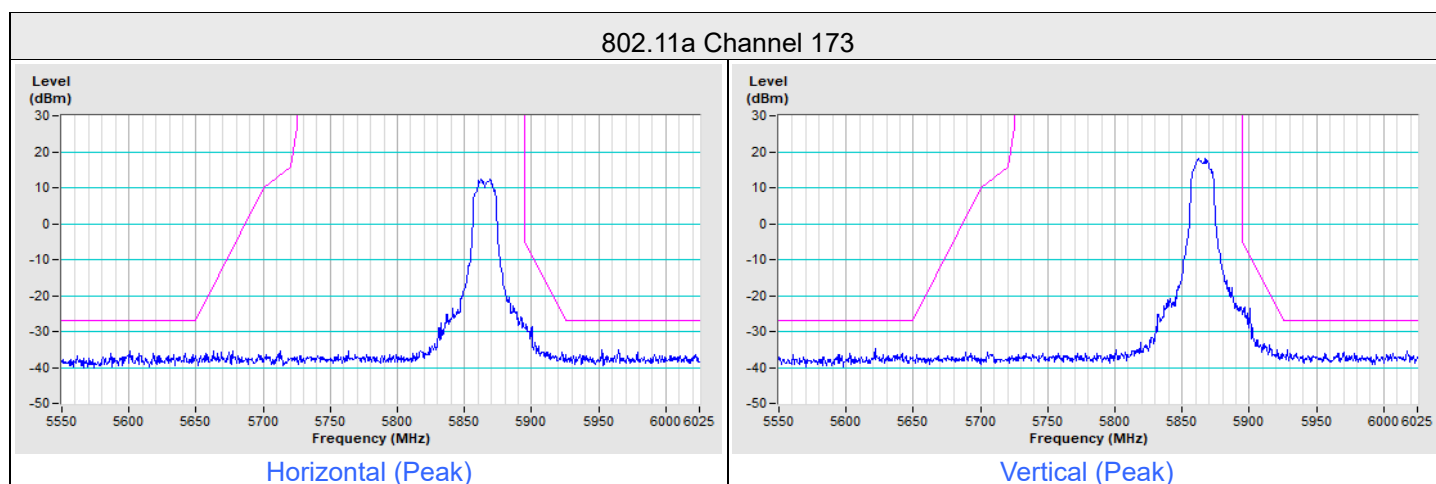
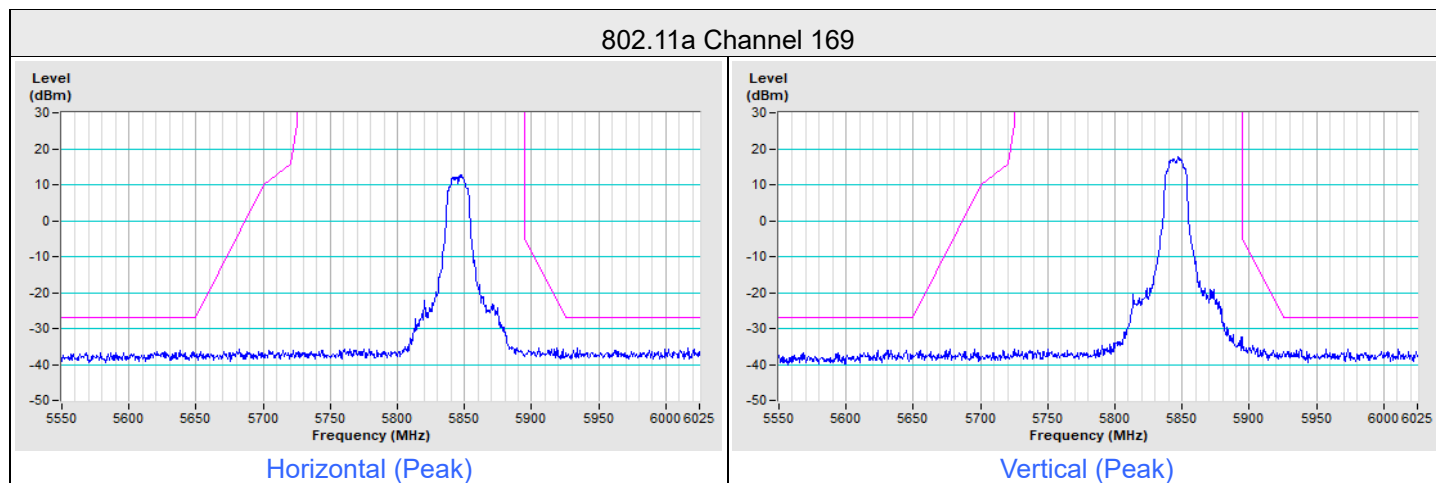
Remarks:

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

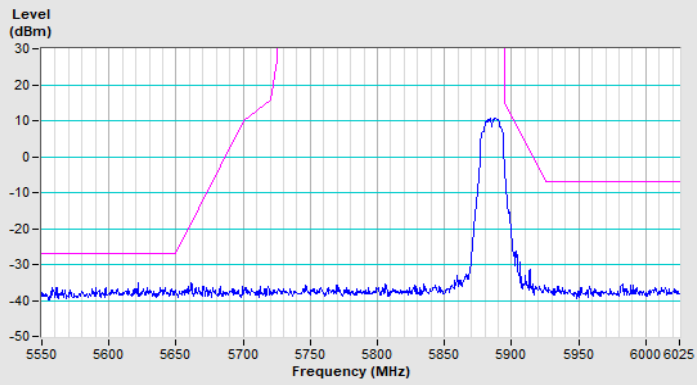
Plot of Band Edge

Chain 0

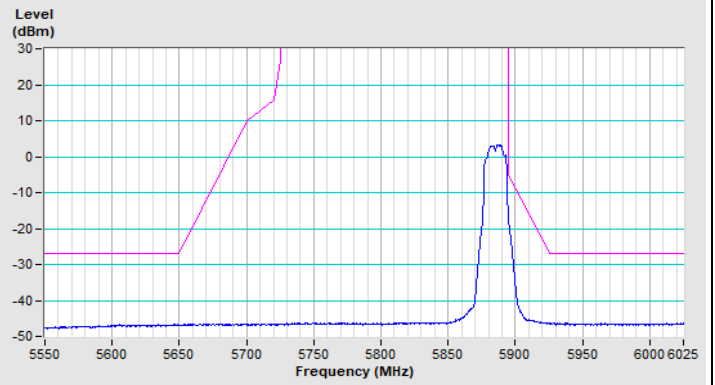
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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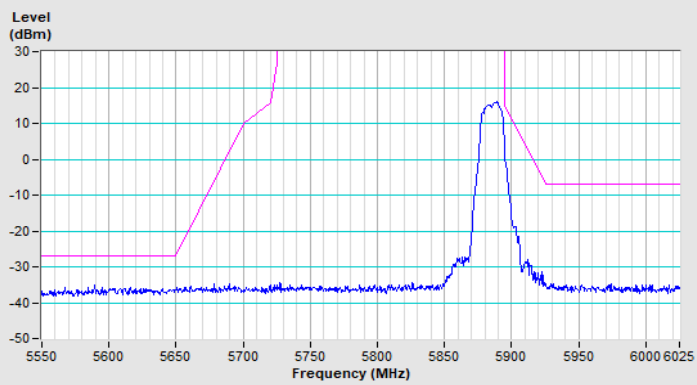
802.11a Channel 177



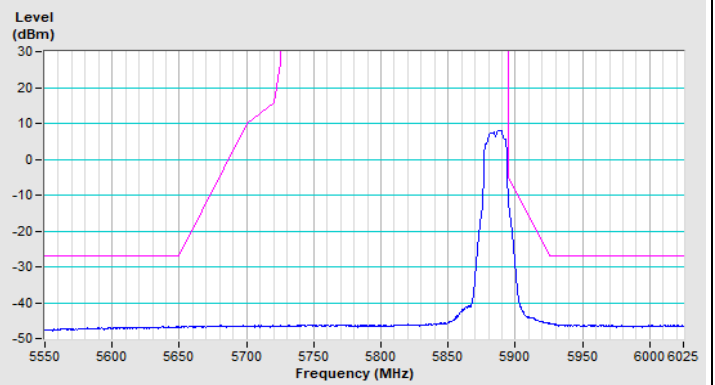
Horizontal (Peak)



Horizontal (Average)



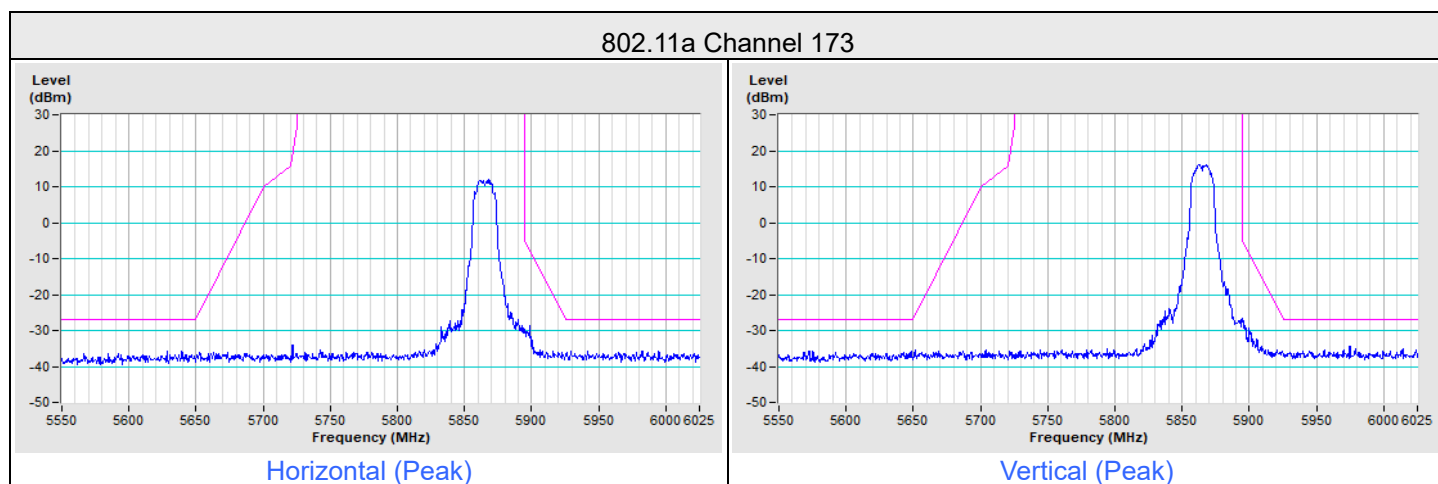
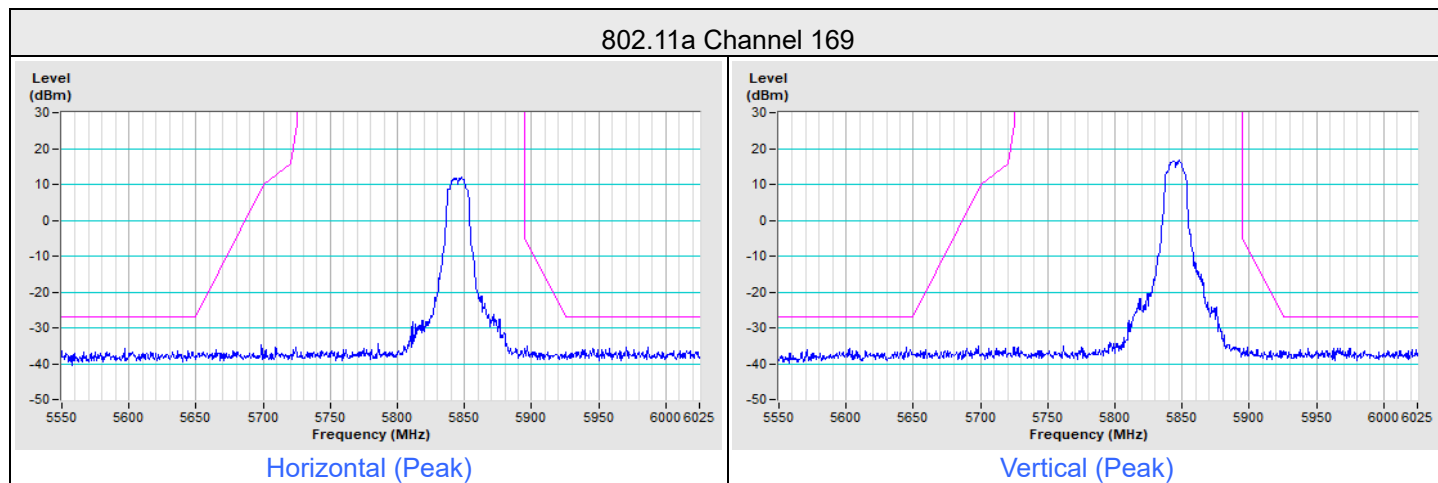
Vertical (Peak)



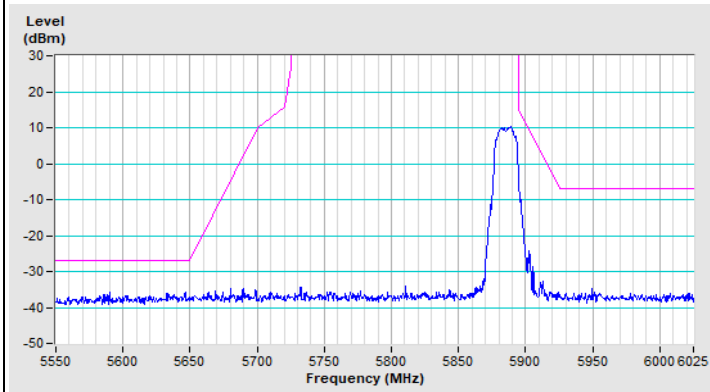
Vertical (Average)

Chain 1

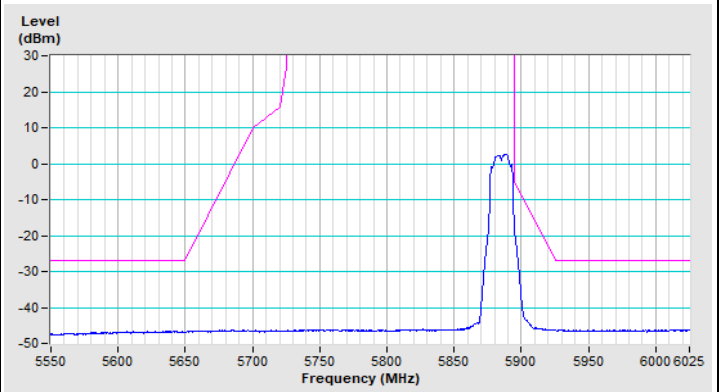
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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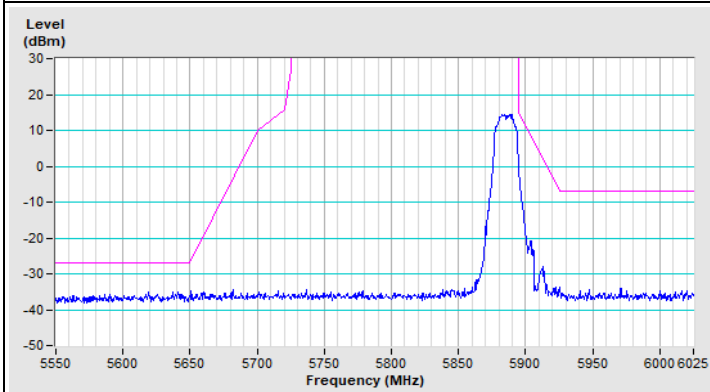
802.11a Channel 177



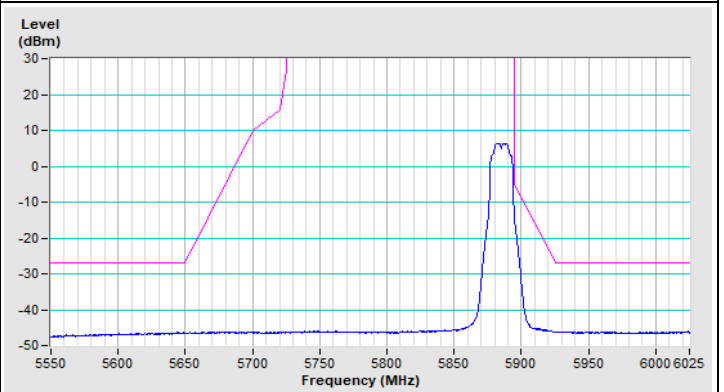
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

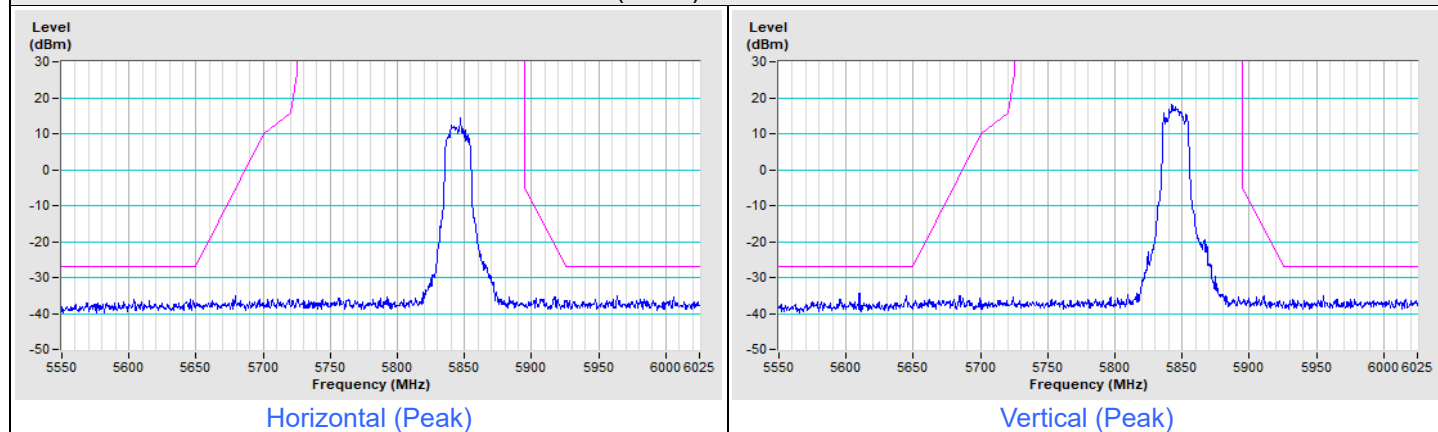


Vertical (Average)

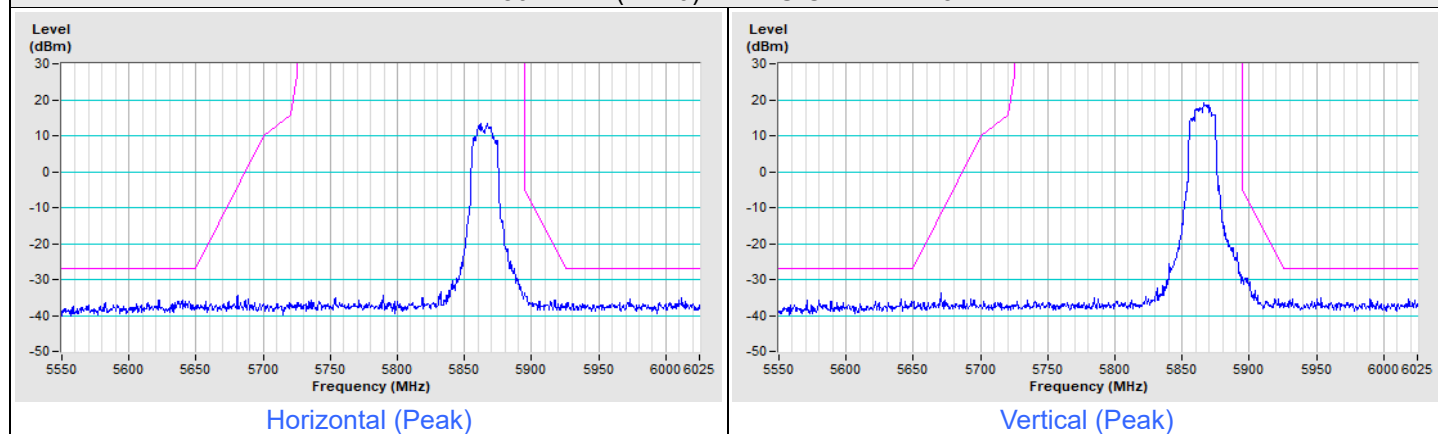
MIMO

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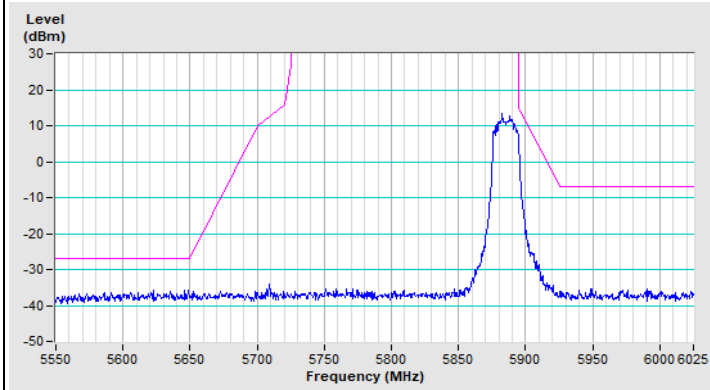
802.11ax (HE20) Full RU Channel 169



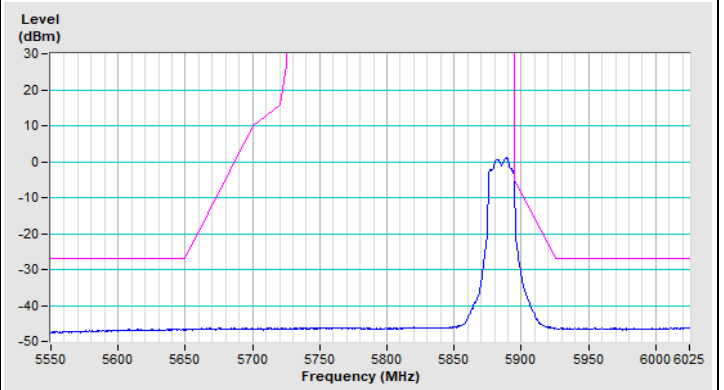
802.11ax (HE20) Full RU Channel 173



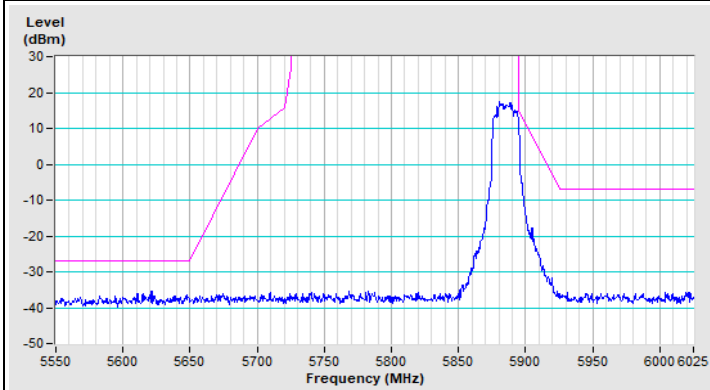
802.11ax (HE20) Full RU Channel 177



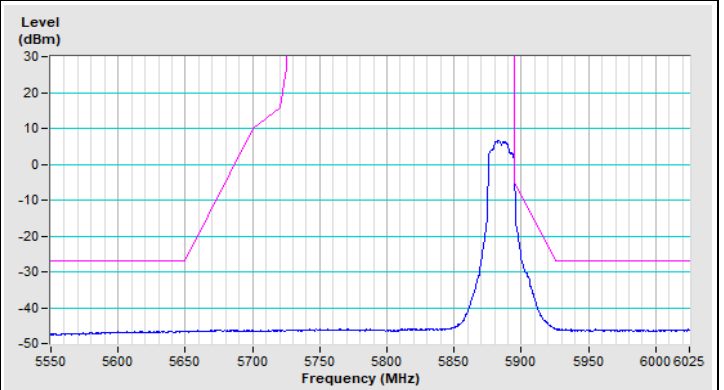
Horizontal (Peak)



Horizontal (Average)



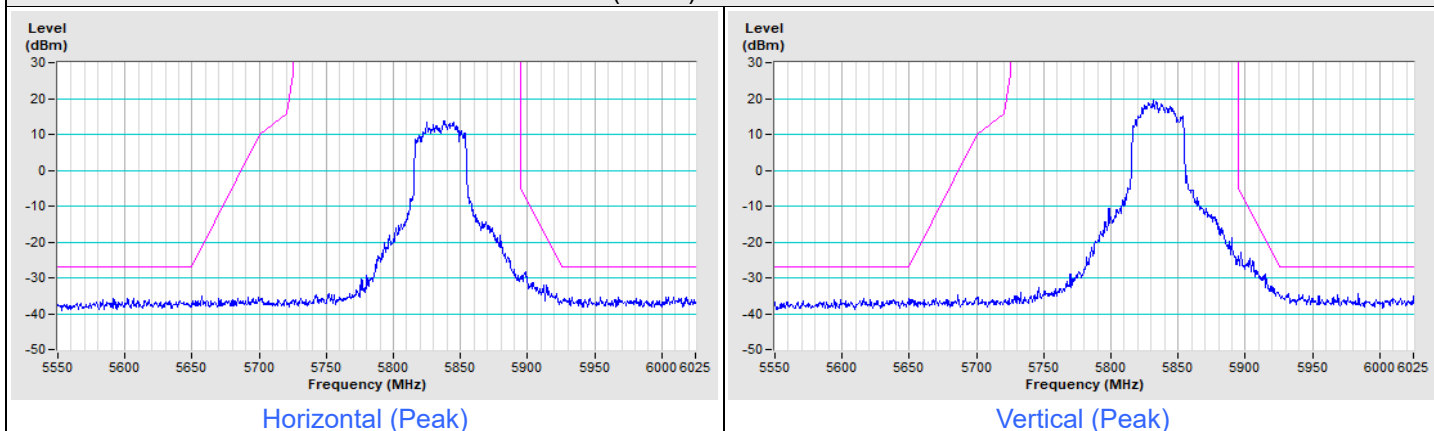
Vertical (Peak)



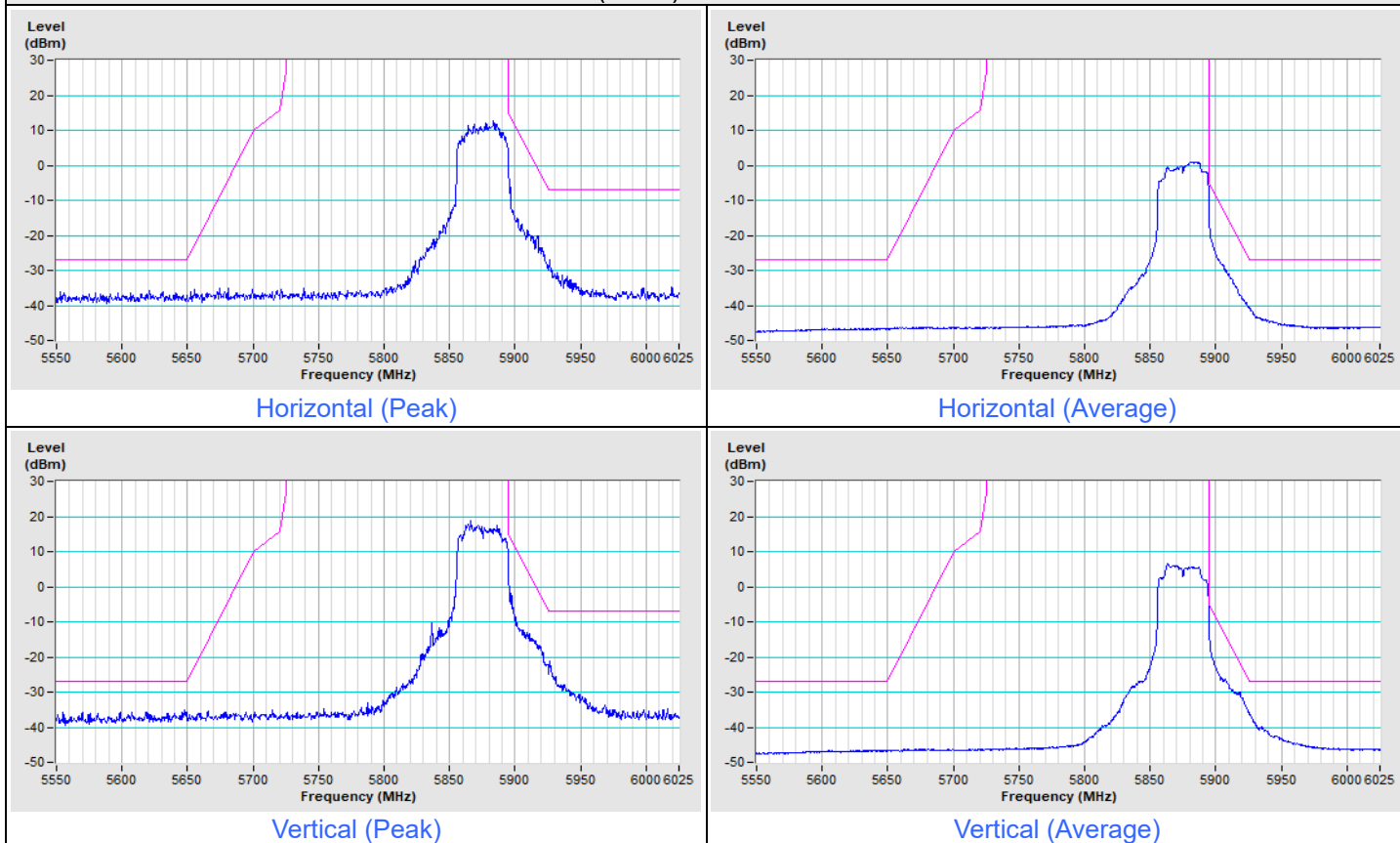
Vertical (Average)

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

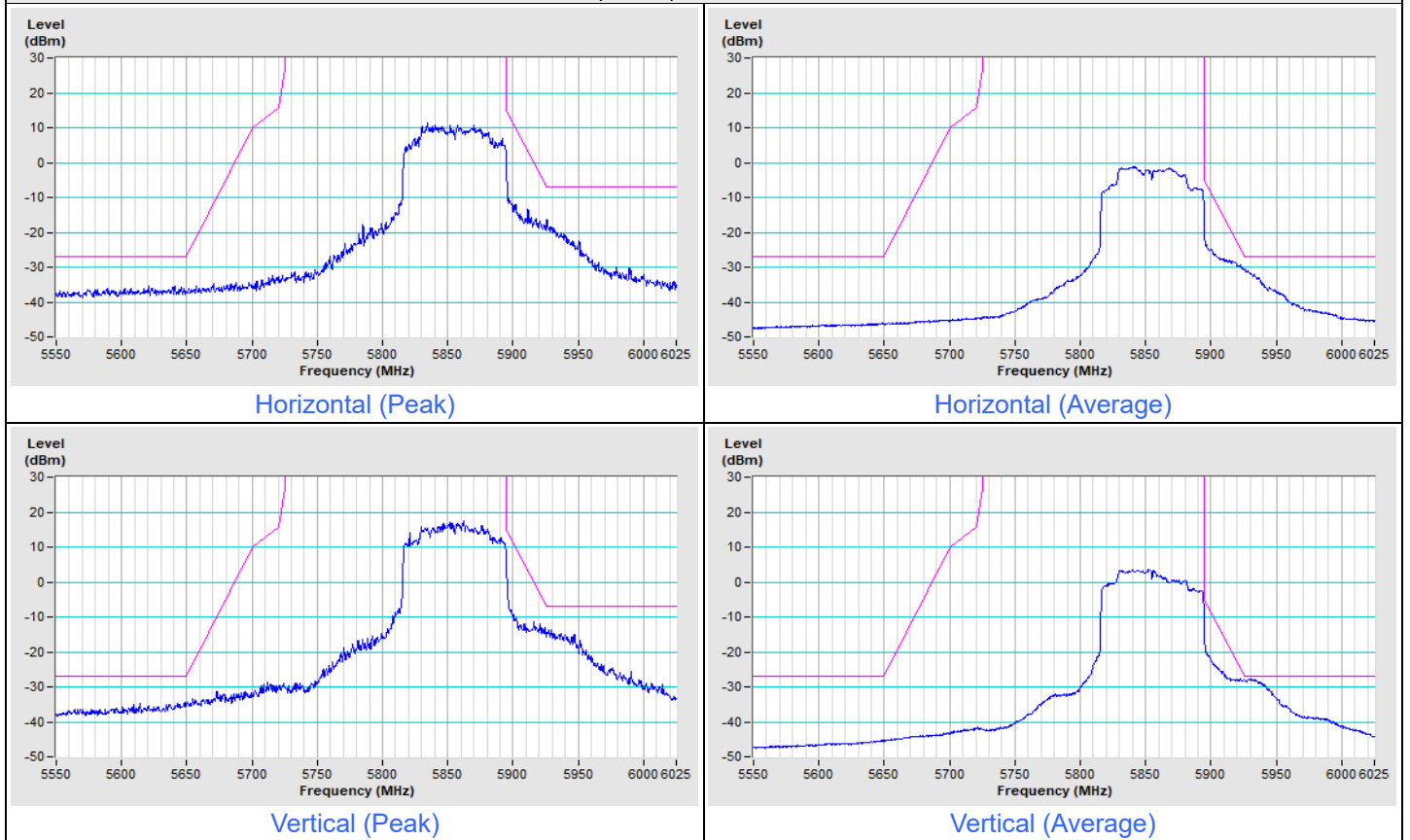


802.11ax (HE40) Full RU Channel 175



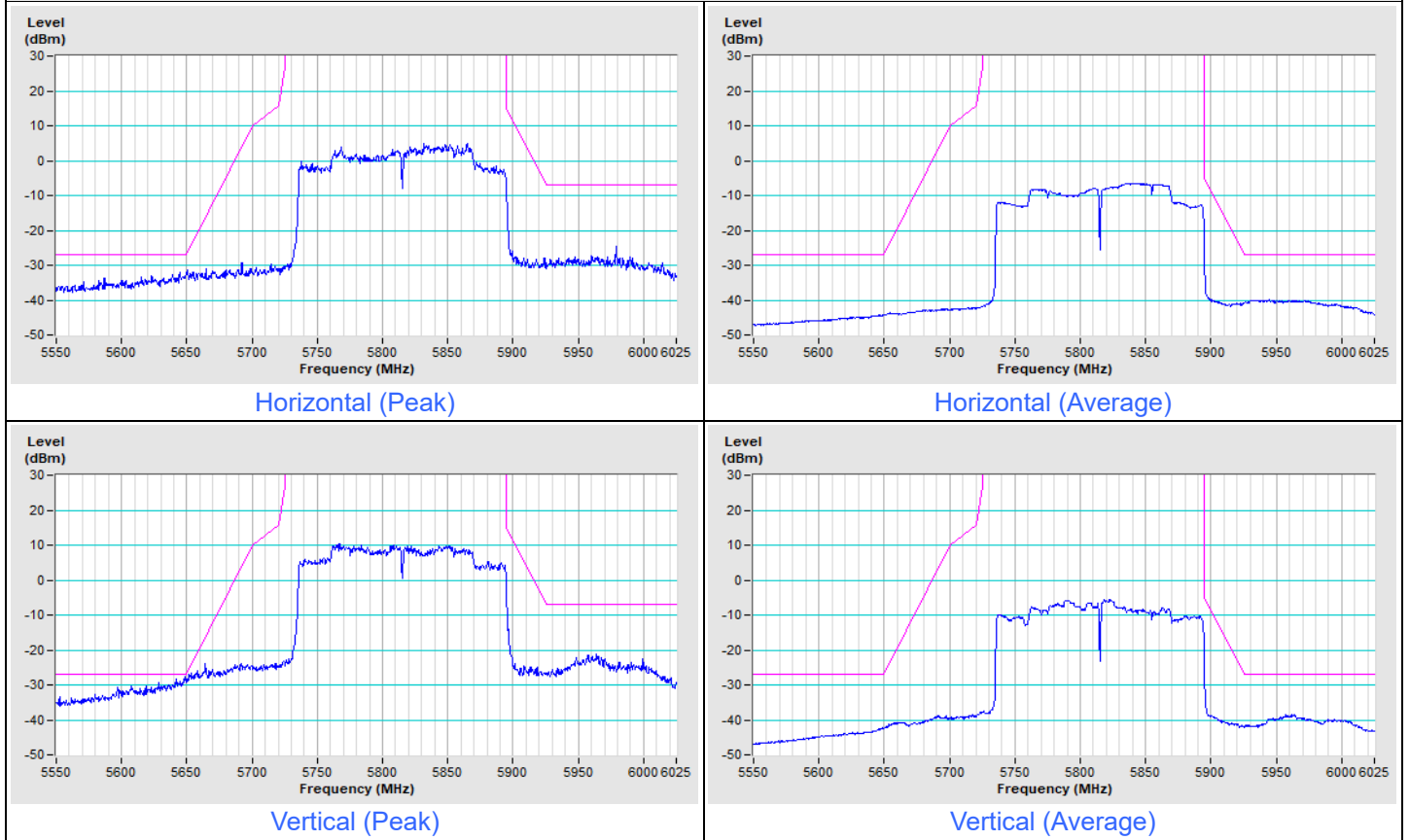
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Full RU Channel 171



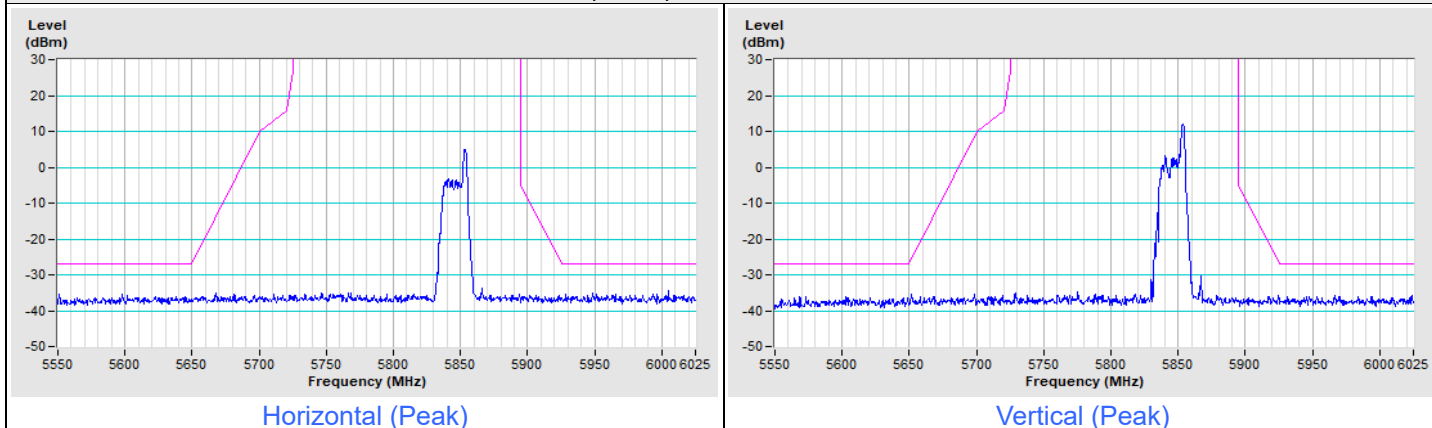
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE160) Full RU Channel 163

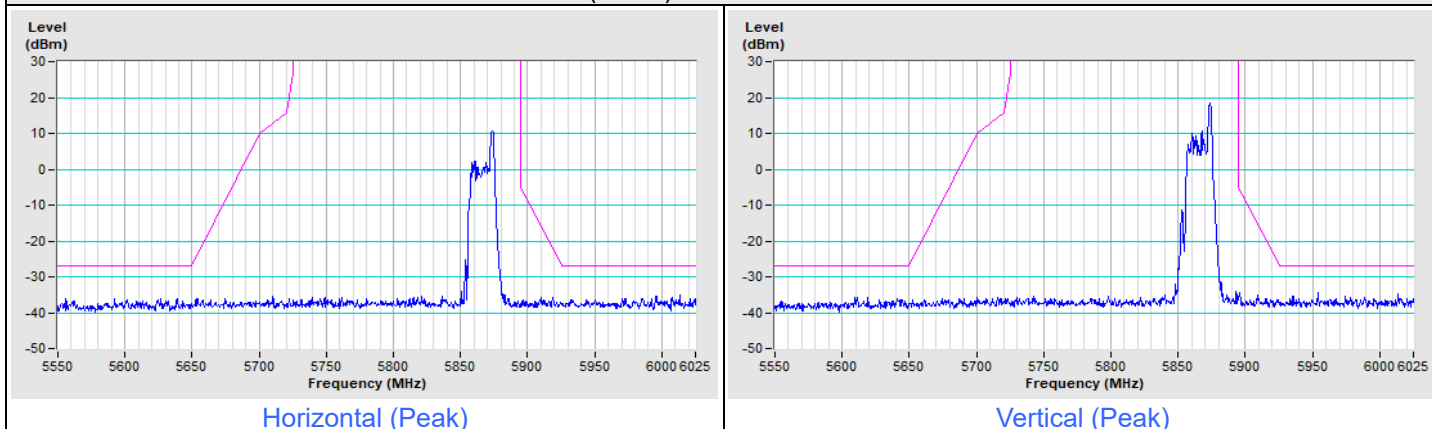


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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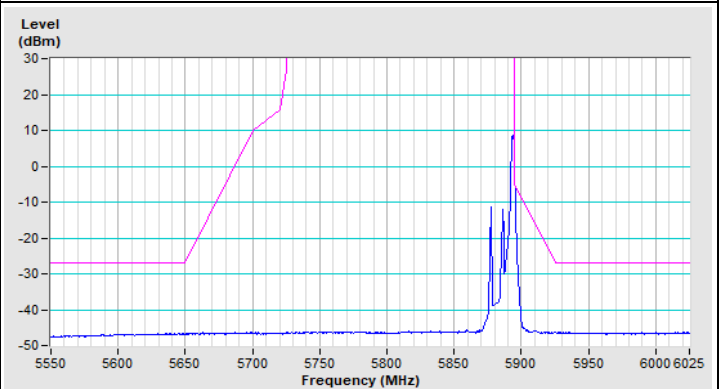
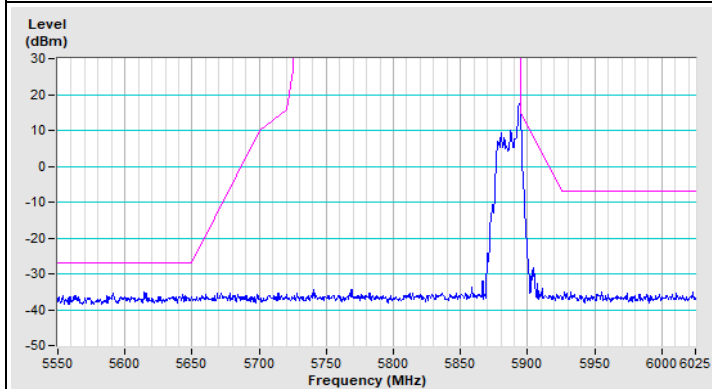
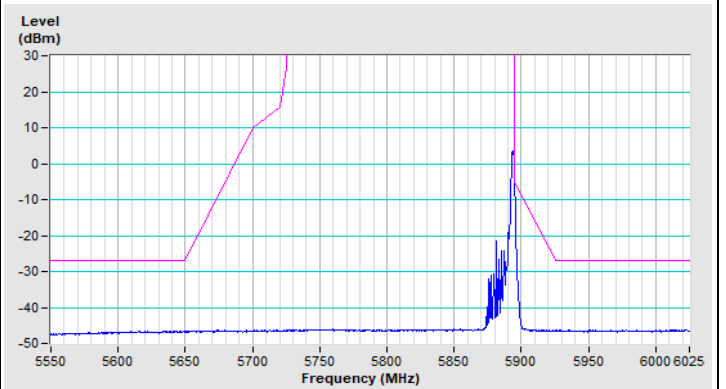
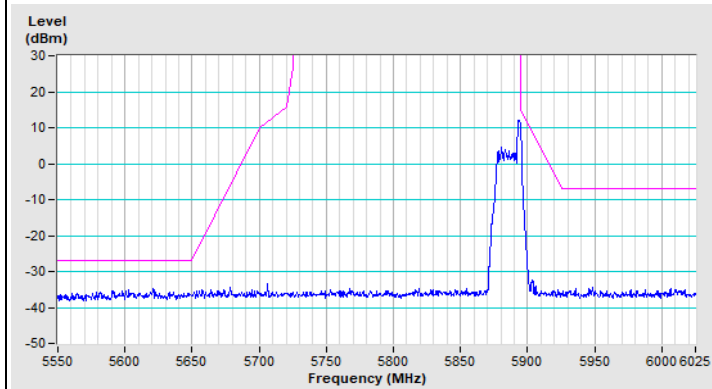
802.11ax (HE20) 26-tone RU Channel 169



802.11ax (HE20) 26-tone RU Channel 173

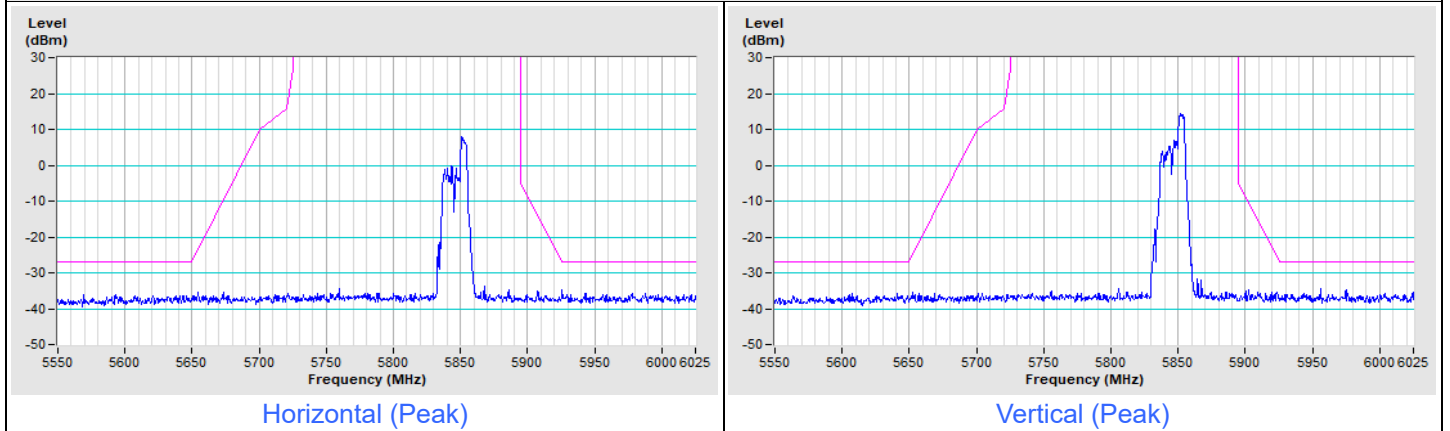


802.11ax (HE20) 26-tone RU Channel 177

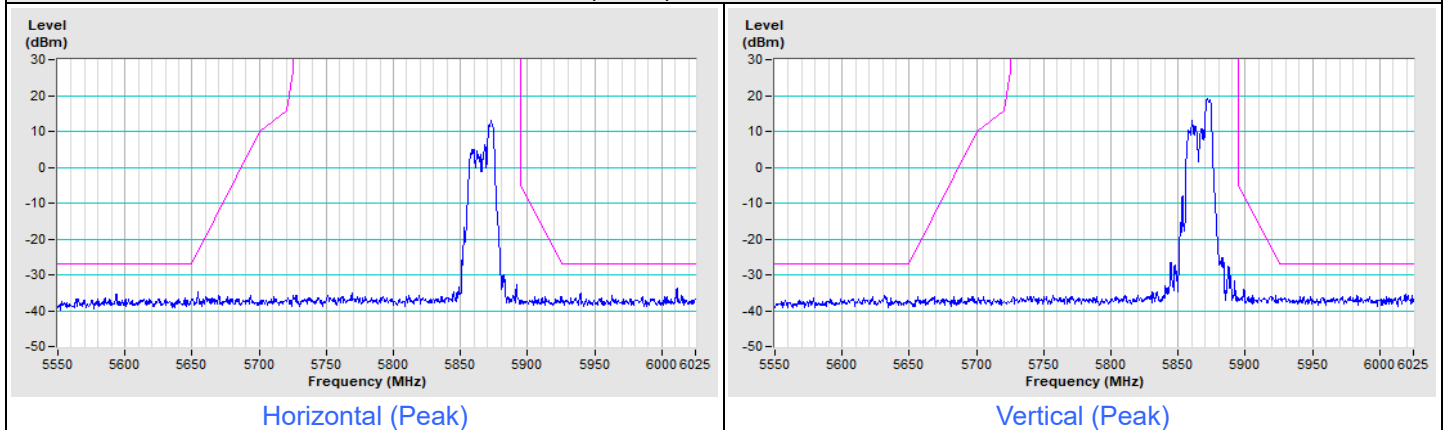


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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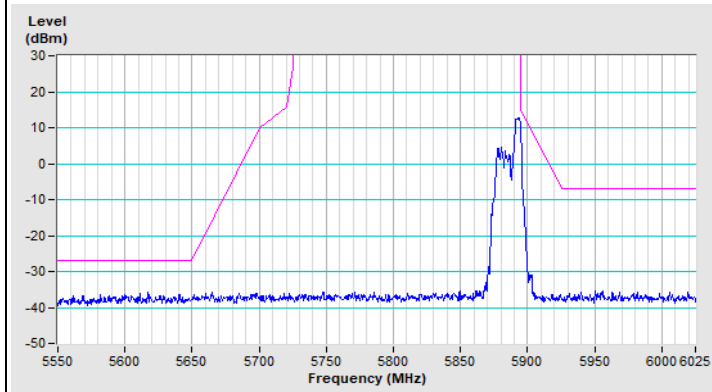
802.11ax (HE20) 52-tone RU Channel 169



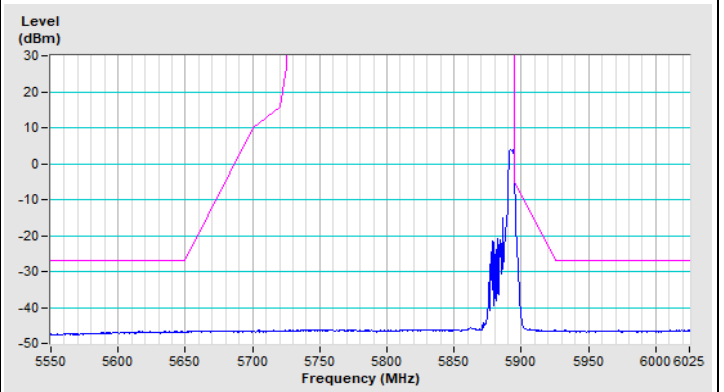
802.11ax (HE20) 52-tone RU Channel 173



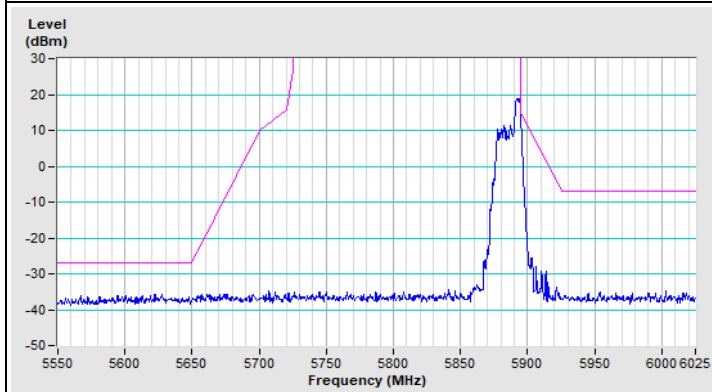
802.11ax (HE20) 52-tone RU Channel 177



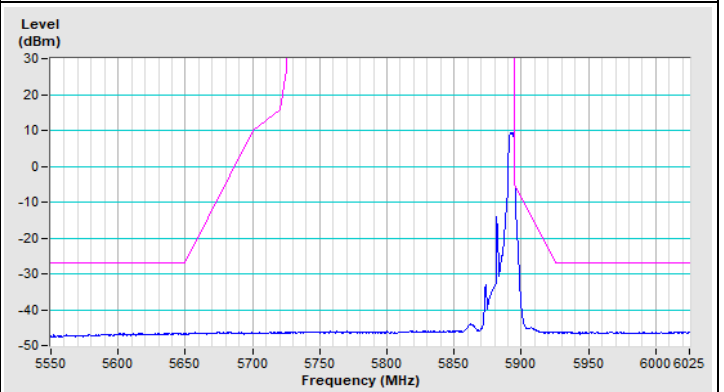
Horizontal (Peak)



Horizontal (Average)



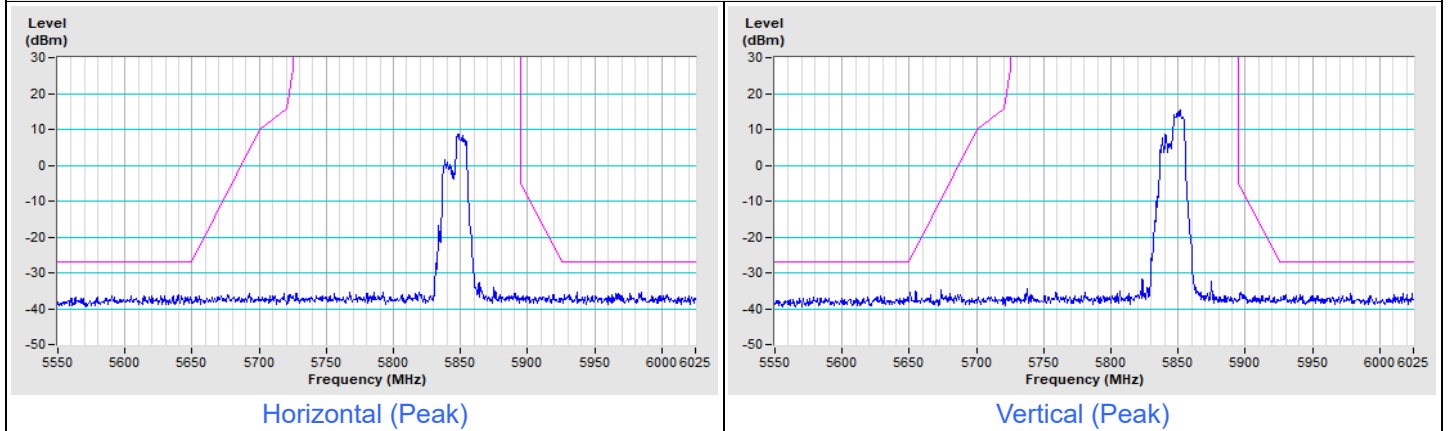
Vertical (Peak)



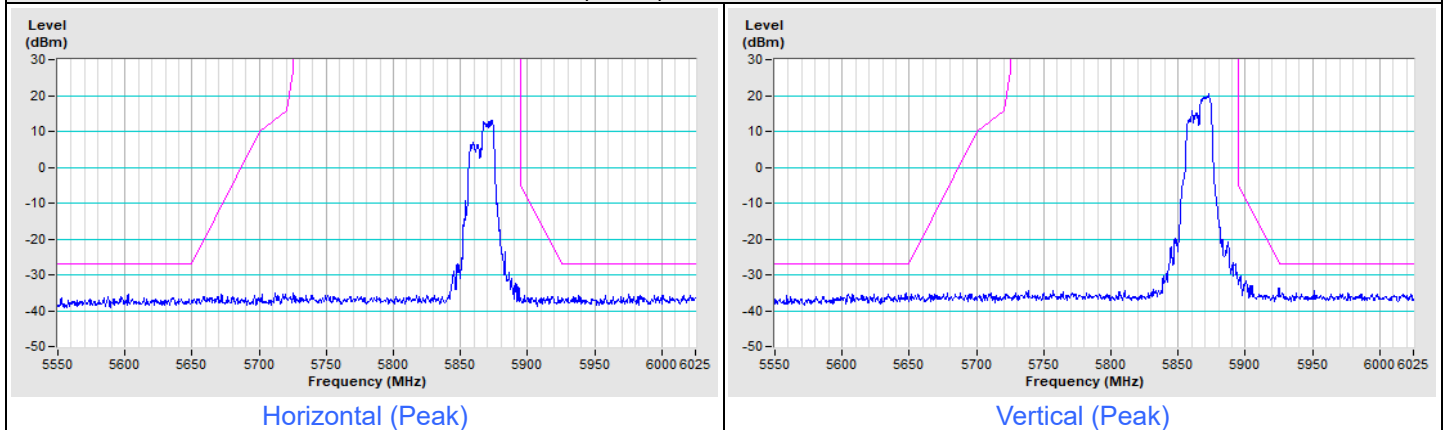
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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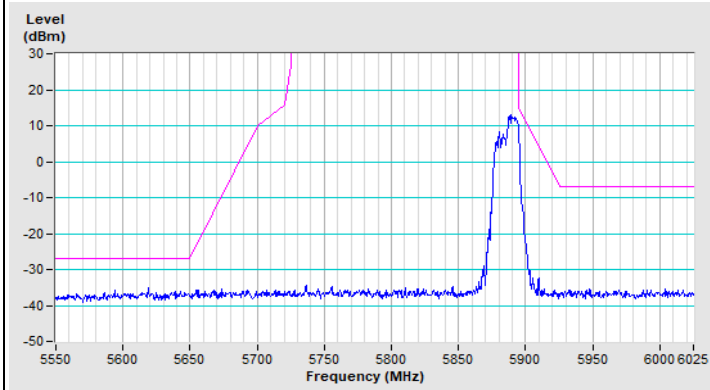
802.11ax (HE20) 106-tone RU Channel 169



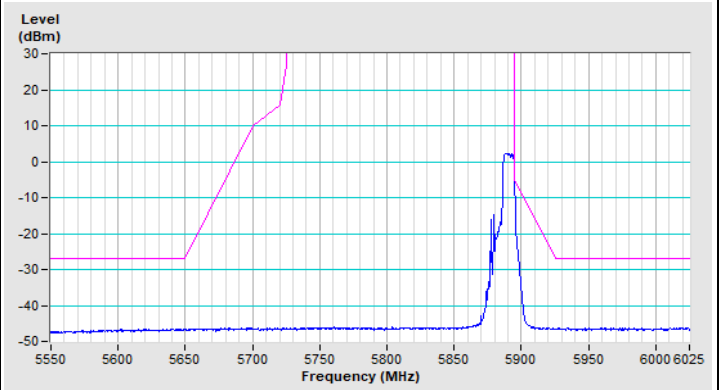
802.11ax (HE20) 106-tone RU Channel 173



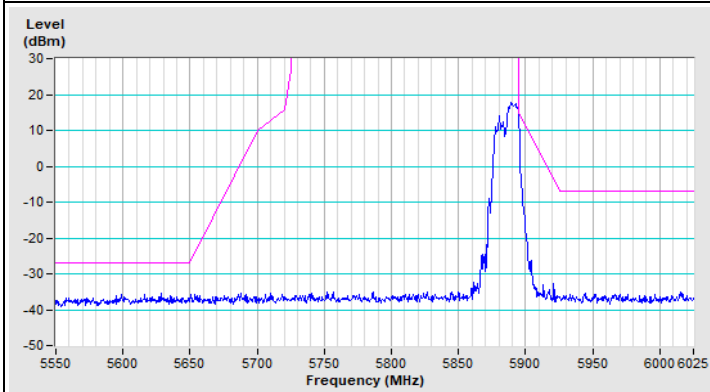
802.11ax (HE20) 106-tone RU Channel 177



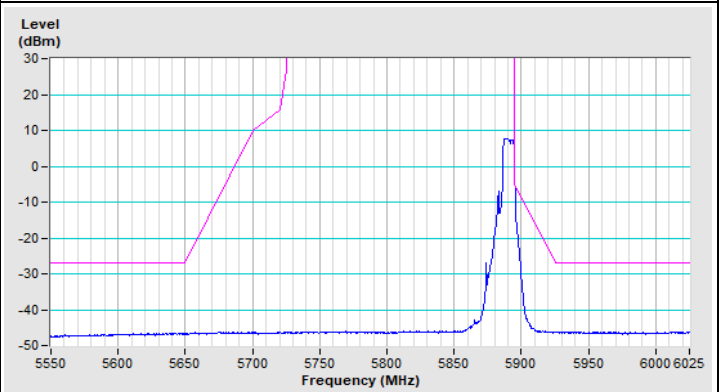
Horizontal (Peak)



Horizontal (Average)



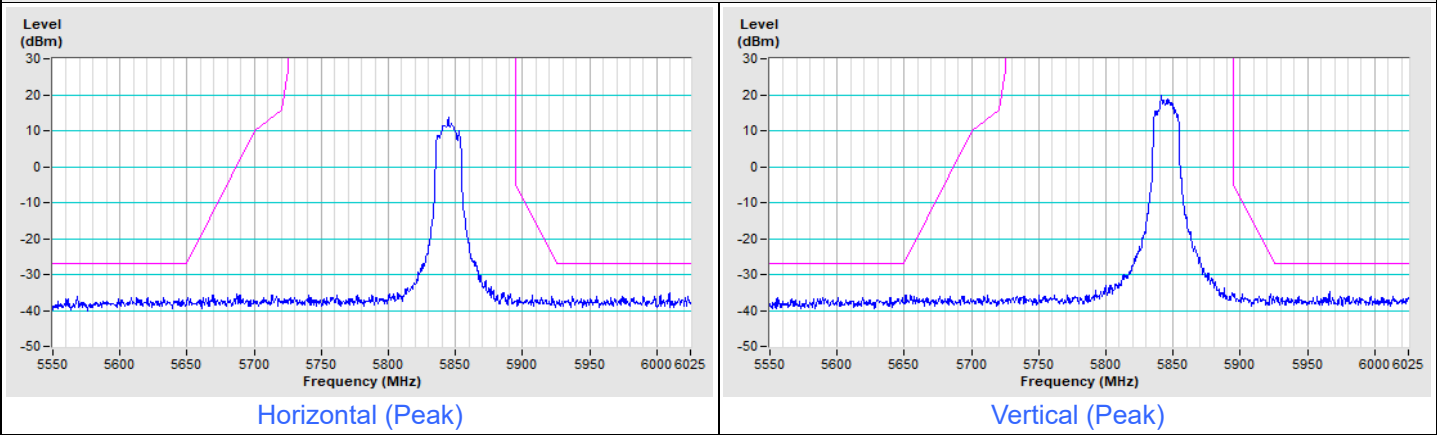
Vertical (Peak)



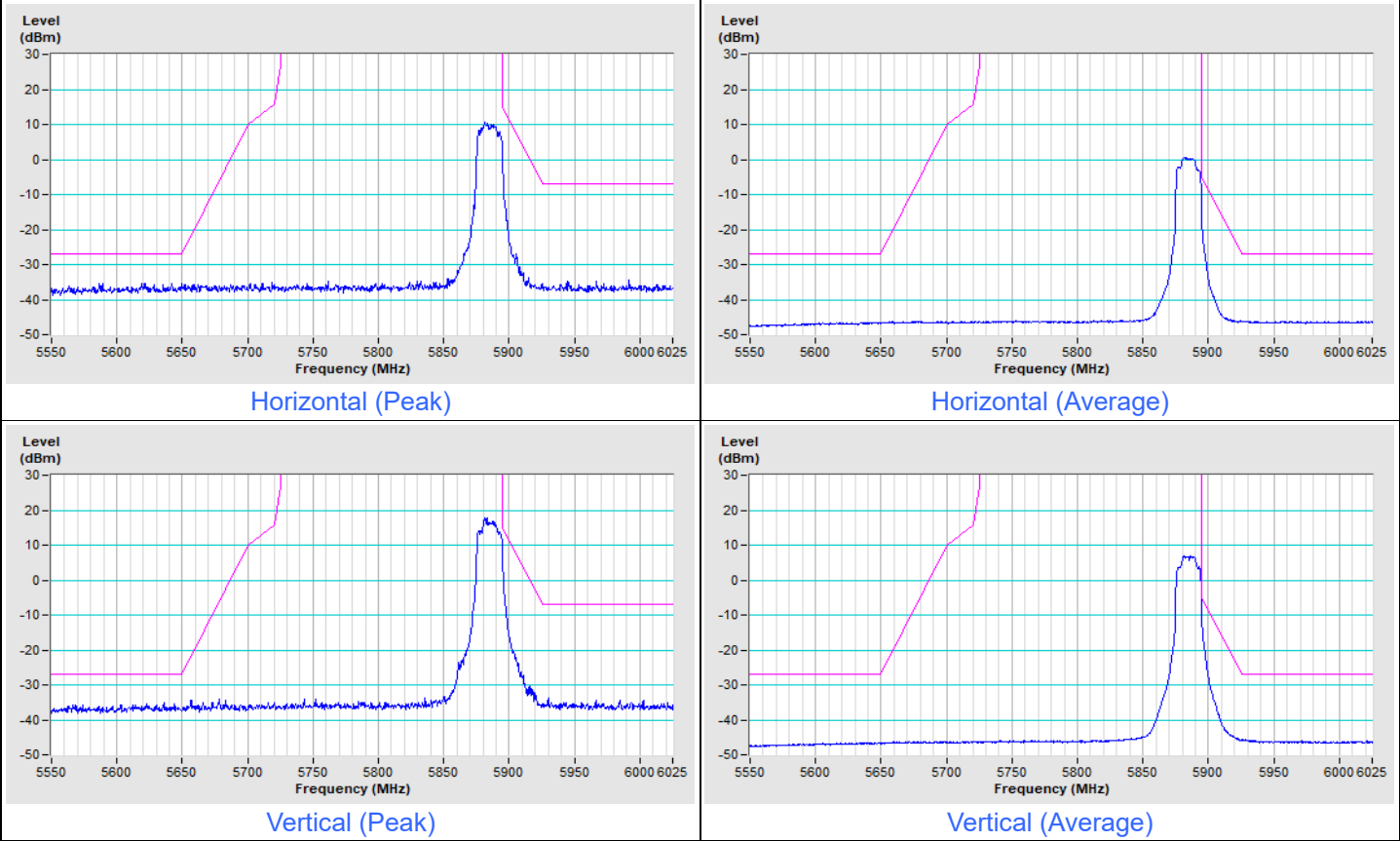
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) 242-tone RU Channel 167

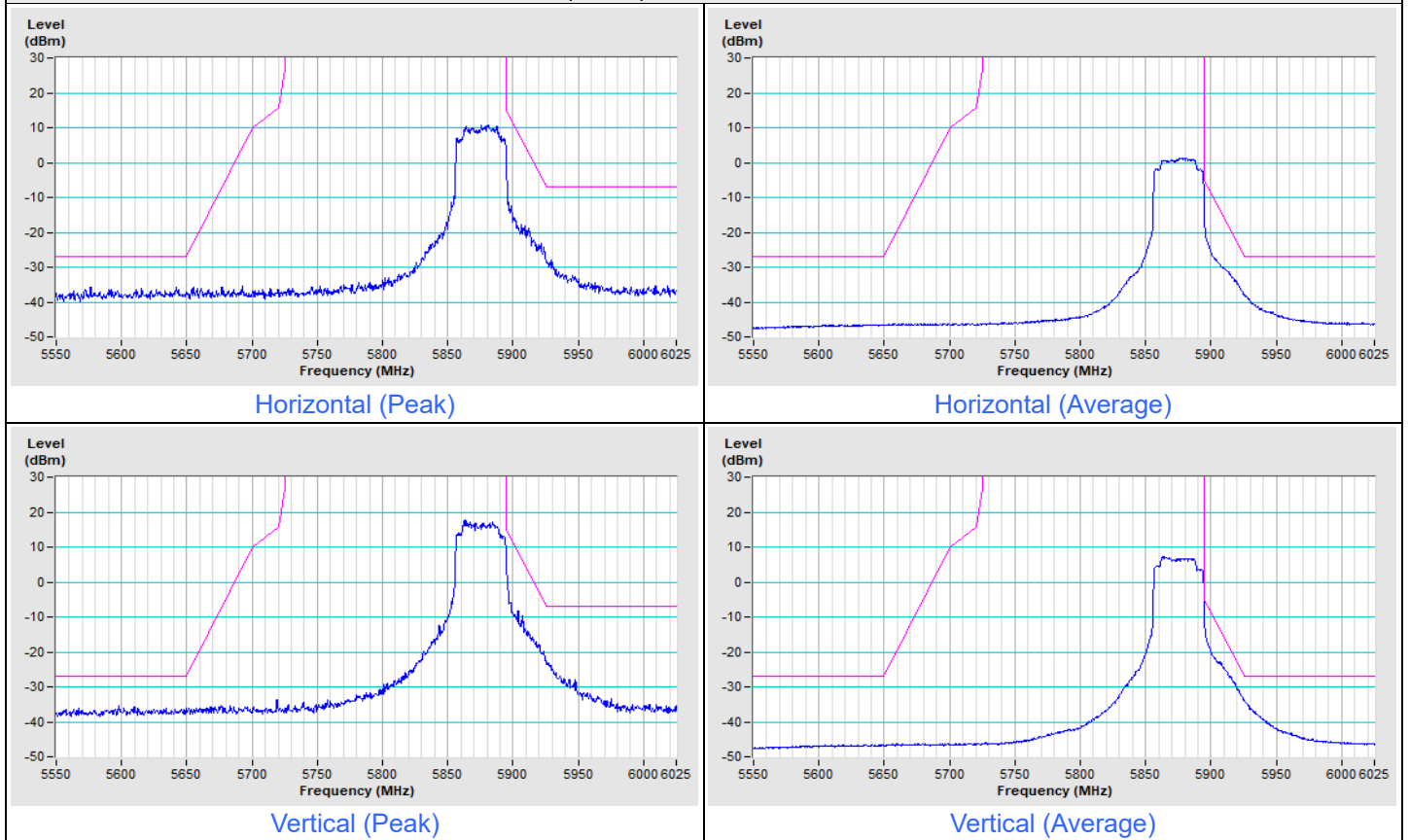


802.11ax (HE40) 242-tone RU Channel 175



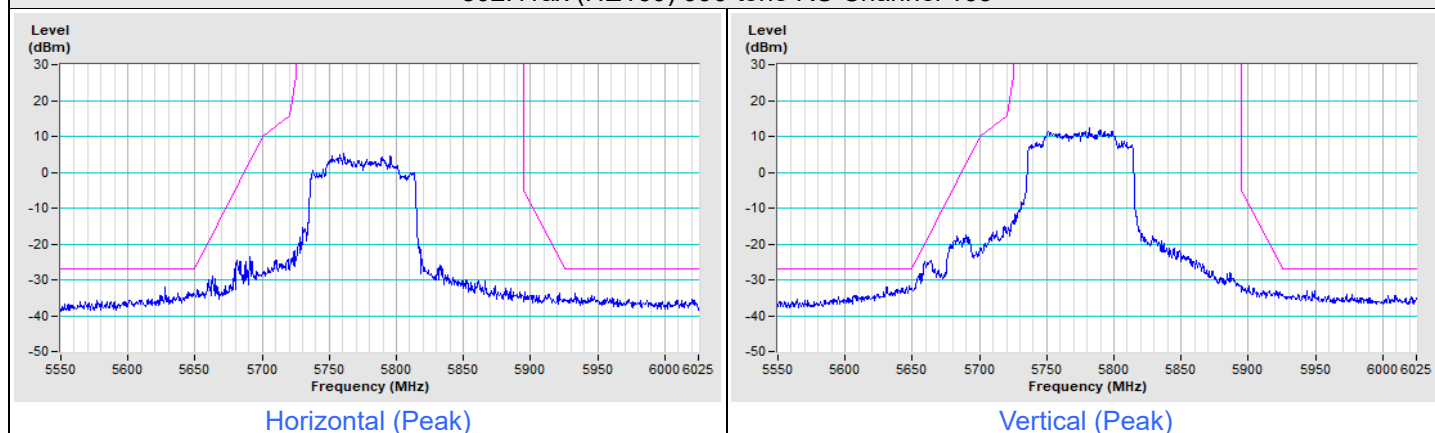
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) 484-tone RU Channel 171



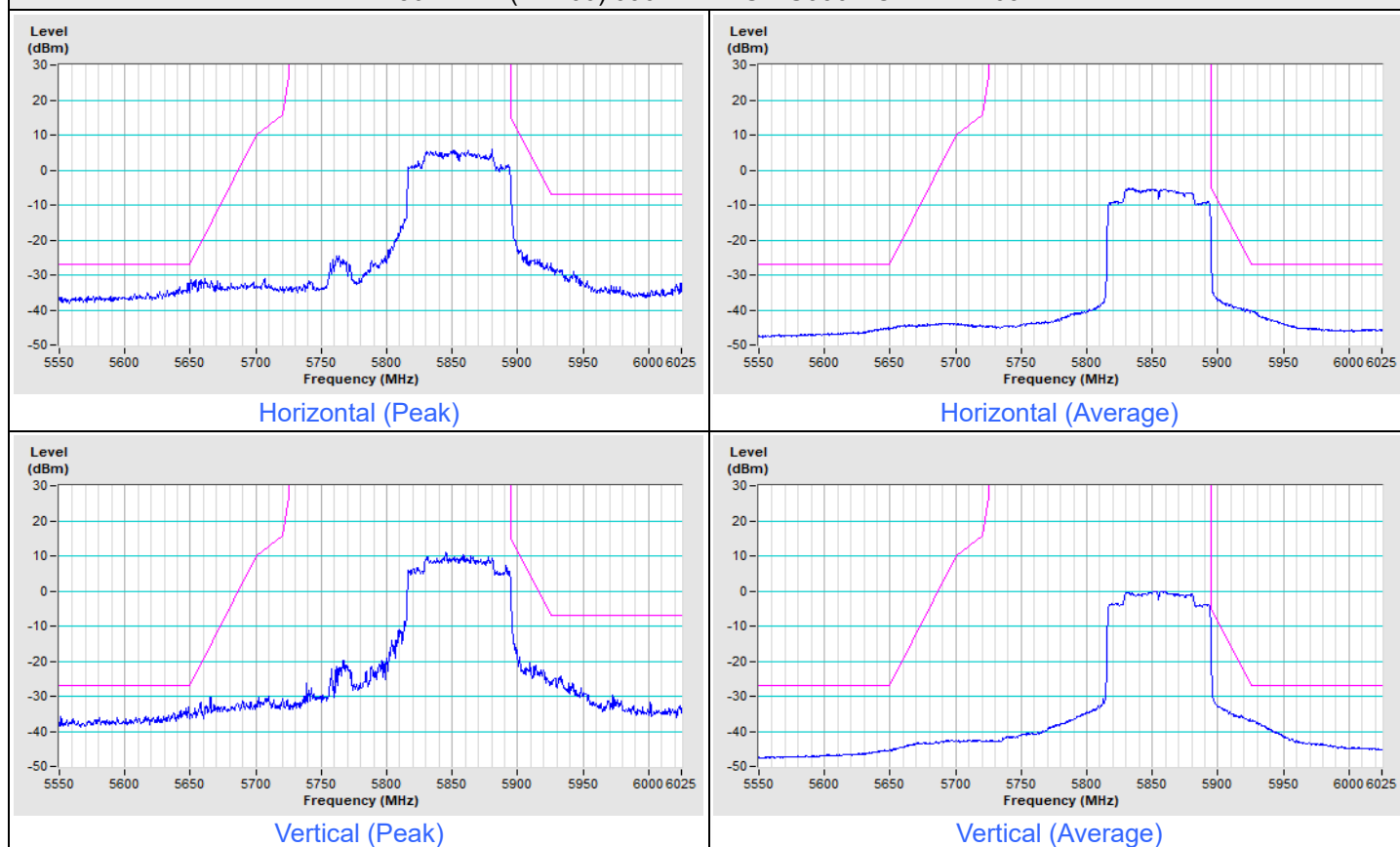
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE160) 996-tone RU Channel 163



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 (HE160) 996-tone RU RU996S Channel 163



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

In the 5.850-5.895 GHz band, client devices must operate under the control of an indoor access point. In all cases, an exception exists for transmitting brief messages to an access point when attempting to join its network after detecting a signal that confirms that an access point is operating on a particular channel. Access points may connect to other access points. Client devices are prohibited from connecting directly to another client device.

Device is a Client devices, all restrictions are meet the §15.407 requirements. Please refer to the Attestation letter exhibit supplied within this application.

9 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

10 Information of the Testing Laboratories

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

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

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Tel: 886-2-26052180

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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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