TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.:	RFBEZH-WTW-P23010321-1
FCC ID:	EROM202215001
Product:	10.1 in. Wireless Touch Screen
Brand:	Crestron Electronics, Inc.
Model No.:	M202215001
Series Model:	TST-1080
Received Date:	2023/3/2
Test Date:	2023/3/28 ~ 2023/5/5
Issued Date:	2023/5/29
Applicant:	Crestron Electronics, Inc.
Address:	15 Volvo Drive, Rockleigh, NJ 07647
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / Designation Number:	198487 / TW2021

Approved by: Jeremy Lin , **Date:** 2023/5/29

Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEZH-WTW-P23010321-1	Original release.	2023/5/29

1 Certificate

Product:	10.1 in. Wireless Touch Screen
Brand:	Crestron Electronics, Inc.
Test Model:	M202215001
Series Model:	TST-1080
Sample Status:	Engineering sample
Applicant:	Crestron Electronics, Inc.
Test Date:	2023/3/28 ~ 2023/5/5
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(1)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.43 dB at 0.15399 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.1 dB at 500.26, 529.89 MHz
15.407(b) (1/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -2.5 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	3.00 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.38 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.83 dB
	6 GHz ~ 18 GHz	5.37 dB
	18 GHz ~ 40 GHz	5.24 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	10.1 in. Wireless Touch Screen
Brand	Crestron Electronics, Inc.
Test Model	M202215001
Series Model	TST-1080
Model Difference	Marketing Differentiation
Status of EUT	Engineering sample
Power Supply Rating	3.1 ~ 4.35Vdc from battery or 9Vdc, 3A from USB type C port or 24Vdc, 1.25A from Wall dock or 24Vdc, 1.25A from Table dock
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz, 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2
Output Power	5.18 GHz ~ 5.24 GHz: 55.462 mW (17.44 dBm) 5.745 GHz ~ 5.825 GHz: 8.805 mW (9.45 dBm)
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone
EUT Category	Client device

Note:

1. The EUT use following accessories:

Item	Brand	Model (Part Number)	Spec.
Wall Dock	Crestron	TST-1080-DSW	Adapter:NBS30G240125D5 AC Input : 100-240V, 50~60Hz, 0.6A DC Output : 24V 1.25A
Table Dock	Crestron	TST-1080-DS	Adapter:NBS30G240125D5 AC Input : 100-240V, 50~60Hz, 0.6A DC Output : 24V 1.25A

2. The EUT use following Adapters (Support unit) for test:

Adapter	Brand	Model No.	Spec.
Adapter 1	Innergie	ADP-30KW B	AC Input: 100-240V, 50~60Hz, 1.0A DC Output: 5V 3A or 9V 3A or 12V 2.5A or 15V 2A or 20V 1.5A
Adapter 2	Crestron	NBS30G240125D5	AC input: 100-240V, 50/60Hz, 0.6A DC output: 30.0W, 24.0V, 1.25A

3. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.
4. WLAN 2.4 GHz & WLAN 5 GHz & WLAN 6 GHz & Bluetooth technology cannot transmit at same time.
5. 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.

Antenna No.	Gain (dBi)		Antenna Type	Connector Type
	Max	Min		
1	4.08	3.36	FPC dipole	ipex(MHF)
2	3.71	3.17	FPC dipole	ipex(MHF)

* 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	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20) (RU26/52/106/242)	2TX	2RX
802.11ax (HE40) (RU26/52/106/242/484)	2TX	2RX
802.11ax (HE80) (RU26/52/106/242/484/996)	2TX	2RX

Note:
1. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.
2. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified, only chosen the worst case to representative mode in test report. (please refer to section 3.4 for more details)

3.3 Channel List

FOR 5180 ~ 5240 MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: XYZ 3-axis. Pre-scan in these ways and find the worst case as a representative test condition. 2. For Unwanted Emission below/ above 1 GHz has Battery / EUT with wall dock / EUT with table dock / EUT with USB cable(Adapter) / EUT with USB cable(Laptop) of power supply . Pre-scan these modes and find the worst case as a representative test condition.
Worst Case:	1. X/ Y/ Z Worst Condition: Y Axis for Unwanted Emission above 1GHz and Unwanted Emission below 1GHz. 2. For Unwanted Emission below/ above 1 GHz EUT with wall dock mode is the worst case of power supply.

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

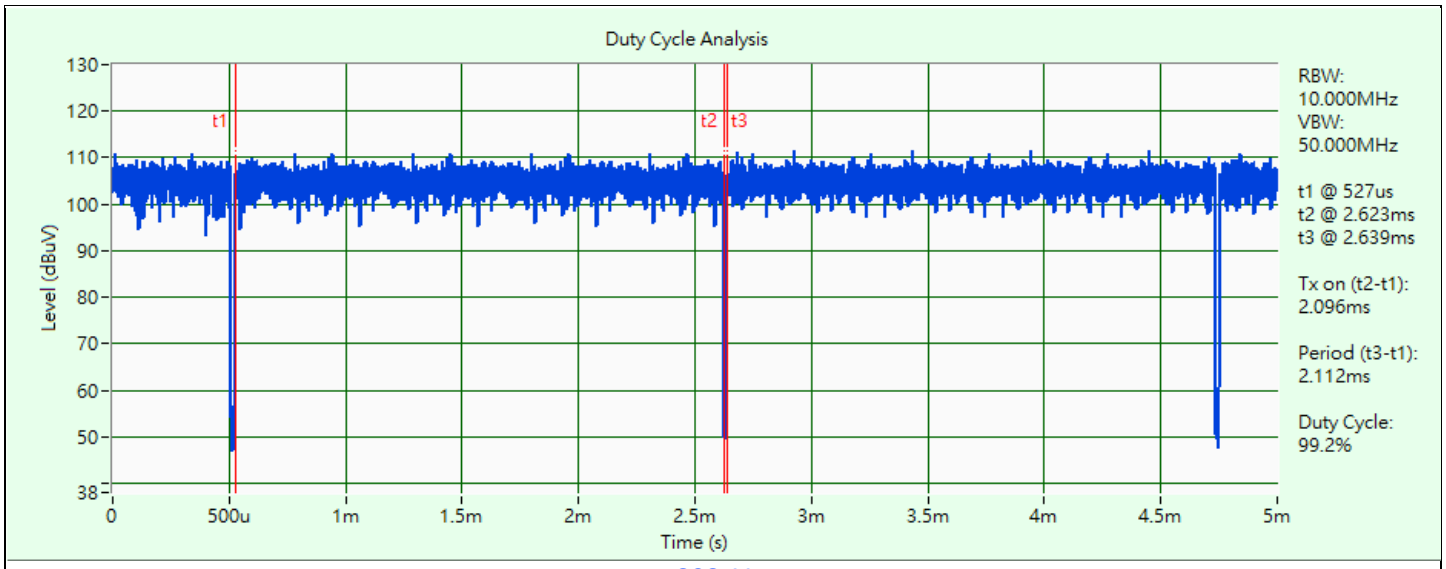
Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD	42, 155	BPSK	MCS0
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0
		802.11ax (HE20) 26-tone RU	CDD	36(26/0), 40(26/0), 48(26/8),149(26/0), 157(26/8), 165(26/8)	BPSK	MCS0
		802.11ax (HE20) 52-tone RU	CDD	36(52/37), 40(52/37), 48(52/40), 149(52/37), 157(52/40), 165(52/40)	BPSK	MCS0
		802.11ax (HE20) 106-tone RU	CDD	36(106/53), 40(106/53), 48(106/54),149(106/53), 157(106/54), 165(106/54)	BPSK	MCS0
Power Spectral Density	A	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0
		802.11ax (HE20) 26-tone RU	CDD	36(26/0), 40(26/0), 48(26/8),149(26/0), 157(26/8), 165(26/8)	BPSK	MCS0
		802.11ax (HE20) 52-tone RU	CDD	36(52/37), 40(52/37), 48(52/40), 149(52/37), 157(52/40), 165(52/40)	BPSK	MCS0
		802.11ax (HE20) 106-tone RU	CDD	36(106/53), 40(106/53), 48(106/54),149(106/53), 157(106/54), 165(106/54)	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0
6 dB Bandwidth	A	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	155	BPSK	MCS0
Frequency Stability	A	802.11a	CDD	36	unmodulated	-
AC Power Conducted Emissions	A	802.11ax (HE20)	CDD	36	BPSK	MCS0
	B	802.11ax (HE20)	CDD	36	BPSK	MCS0
	C	802.11ax (HE20)	CDD	36	BPSK	MCS0
	D	802.11ax (HE20)	CDD	36	BPSK	MCS0
Unwanted Emissions below 1 GHz	A	802.11ax (HE20)	CDD	36	BPSK	MCS0
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0
		802.11ax (HE20) 26-tone RU	CDD	36(26/0), 40(26/0), 48(26/8),149(26/0), 157(26/8), 165(26/8)	BPSK	MCS0
		802.11ax (HE20) 52-tone RU	CDD	36(52/37), 40(52/37), 48(52/40), 149(52/37), 157(52/40), 165(52/40)	BPSK	MCS0
		802.11ax (HE20) 106-tone RU	CDD	36(106/53), 40(106/53), 48(106/54),149(106/53), 157(106/54), 165(106/54)	BPSK	MCS0
EUT Configure Mode:	A	EUT with wall dock				
	B	EUT with table dock				
	C	EUT with USB cable(Adapter)				
	D	EUT with USB cable(Laptop)				

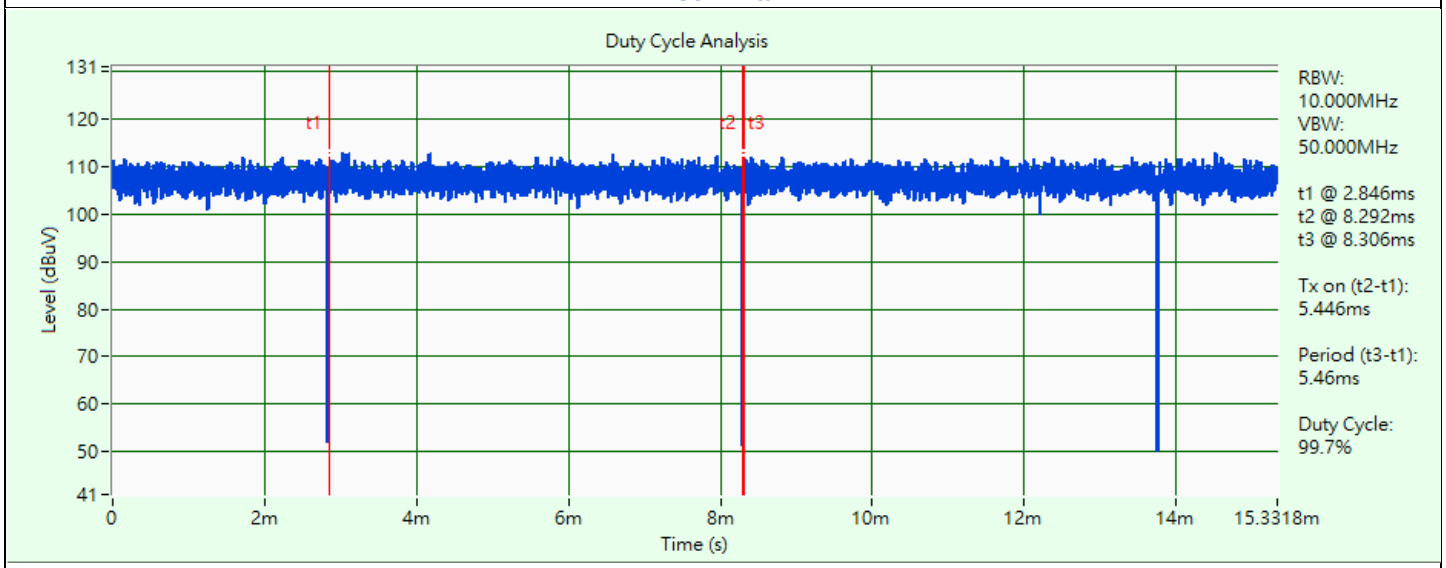
3.5 Duty Cycle of Test Signal

Mode A

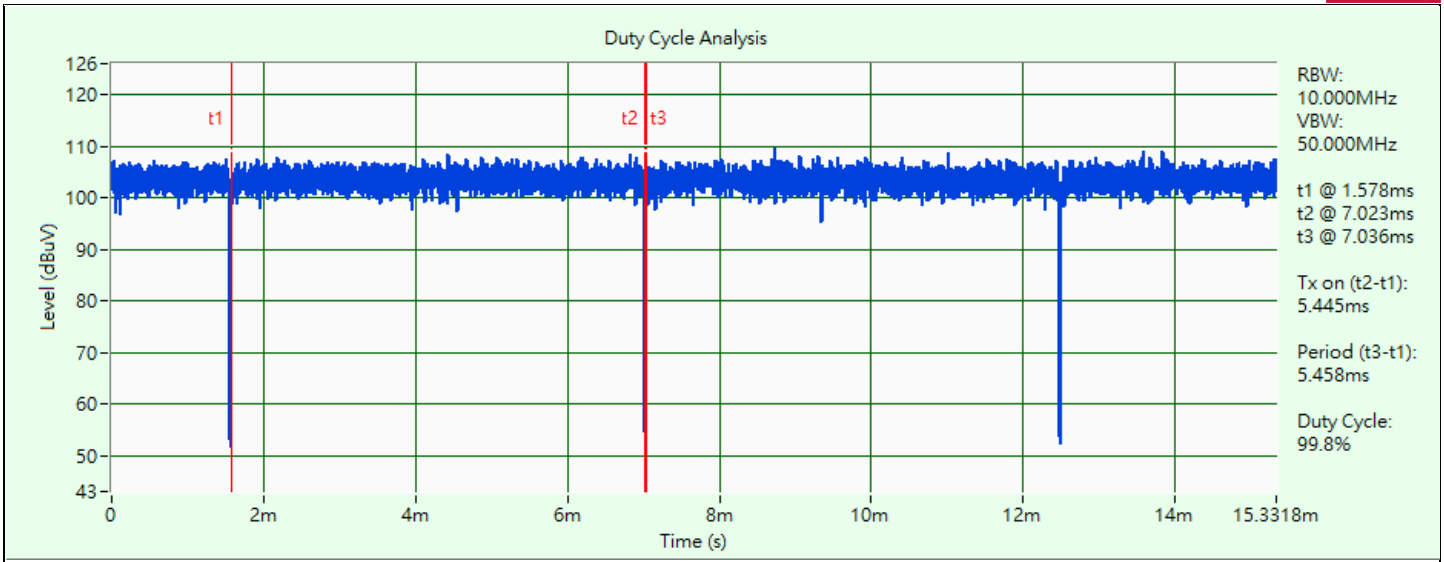
802.11a: Duty cycle = 2.096 ms / 2.112 ms x 100% = 99.2%
802.11ax (HE20): Duty cycle = 5.446 ms / 5.46 ms x 100% = 99.7%
802.11ax (HE40): Duty cycle = 5.445 ms / 5.458 ms x 100% = 99.8%
802.11ax (HE80): Duty cycle = 5.447 ms / 5.461 ms x 100% = 99.7%



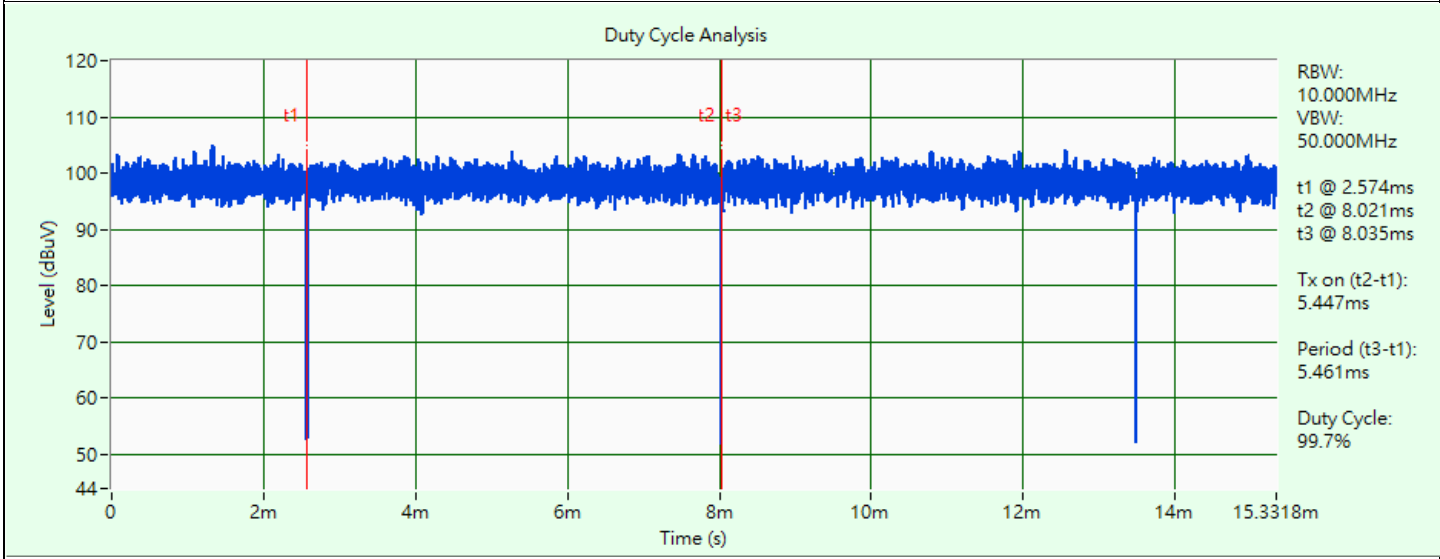
802.11a



802.11ax (HE20)



802.11ax (HE40)



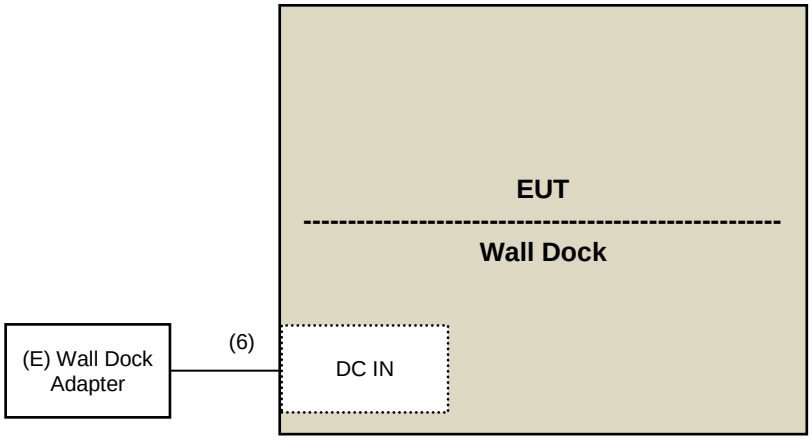
802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT V4.0) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



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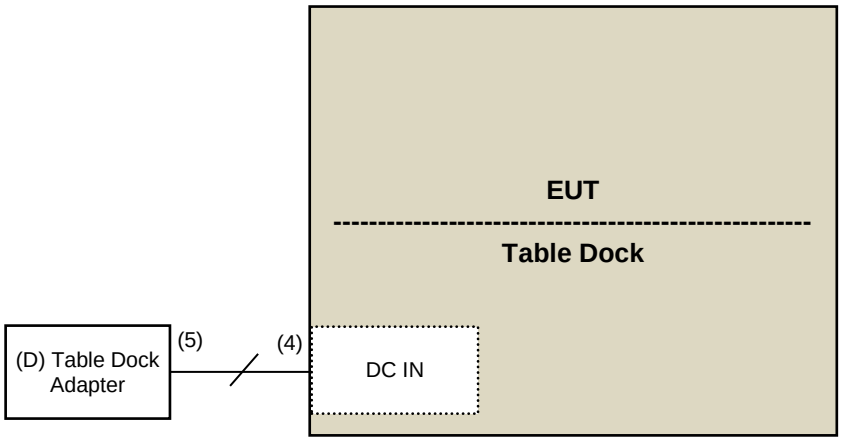

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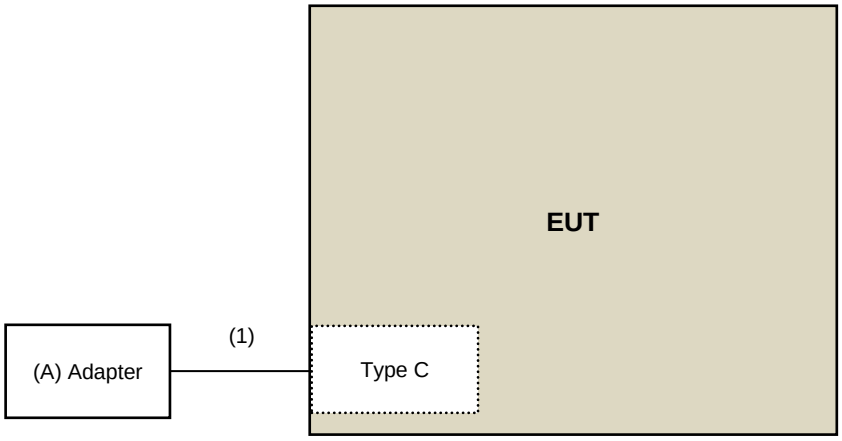
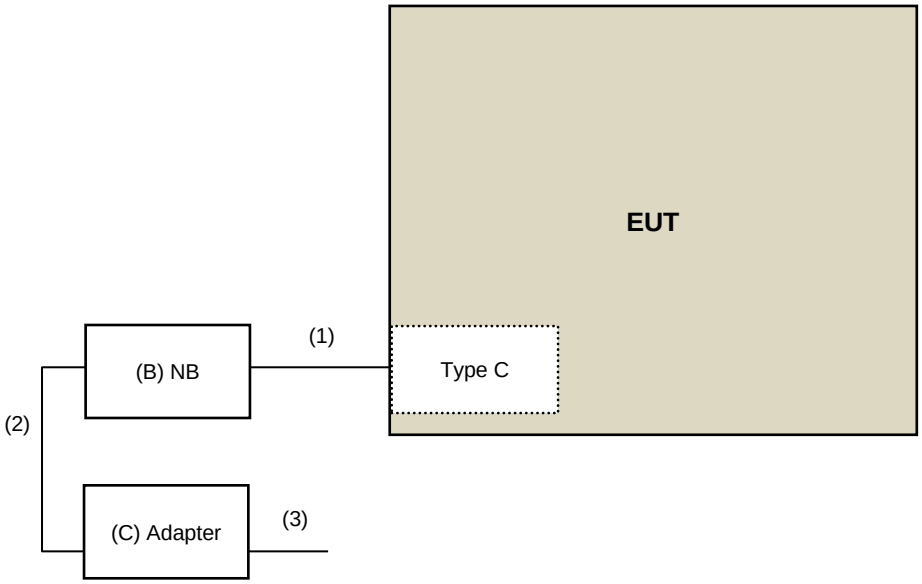


Mode D



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Innergie	ADP-30KW B	N/A	N/A	Supplied by applicant
B	NB	DELL	P90F	N/A	N/A	Provided by Lab
C	Adapter	DELL	LA65NS2-01	N/A	N/A	Provided by Lab
D	Table Dock Adapter	Crestron	NBS30G240125D5	N/A	N/A	Supplied by applicant
E	Wall Dock Adapter	Crestron	NBS30G240125D5	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C to C Cable	1	2	Y	0	Supplied by applicant
2	DC Cable	1	1.7	Y	0	Provided by Lab
3	AC Cable	1	0.9	N	0	Provided by Lab
4	DC Cable	1	1.7	Y	0	Supplied by applicant
5	DC Cable	1	1.8	Y	0	Supplied by applicant
6	DC Cable	1	1.8	Y	0	Supplied by applicant

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
MIMO Powermeasurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1339443	2022/5/29	2023/5/28
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Temperature & Humidity Chamber TERCHY	MHU-225AU	920409	2022/6/27	2023/6/26
Voltage Meter FLUKE	179	89610322	2022/10/3	2023/10/2

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/4/24 ~ 2023/5/5

4.2 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.3 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.4 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Frequency Stability

Refer to section 4.1 to get information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal LYNICS	0900510	E1-011285	2022/9/19	2023/9/18
		E1-011286	2022/9/19	2023/9/18
50 Ohms Terminator LYNICS	0900510	E1-01-305	2023/2/13	2024/2/12
Attenuator STI	STI02-2200-10	NO.4	2022/9/2	2023/9/1
DC LISN R&S	ESH3-Z6	100219	2022/8/2	2023/8/1
		844950/018	2022/8/2	2023/8/1
DC LISN Schwarzbeck	NNLK 8121	8121-808	2022/4/29	2023/4/28
High Voltage Probe Schwarzbeck	TK9420	00982	2022/12/14	2023/12/13
Isolation Transformer Erika Fiedler	D-65396	017	2022/9/8	2023/9/7
LISN R&S	ENV216	101196	2022/5/24	2023/5/23
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
		8121-00759	2022/8/18	2023/8/17
	NNLK8129	8129229	2022/6/8	2023/6/7
	NSLK 8128	8128-244	2022/11/8	2023/11/7
RF Coaxial Cable Commate	5D-FB	Cable-CO5-01	2023/1/19	2024/1/18
Software BVADT	Cond_V7.3.7.4	N/A	N/A	N/A
Test Receiver R&S	ESR3	102412	2022/12/21	2023/12/20

Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2023/3/28

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
* LOOP ANTENNA EMCI	LPA600	270	2021/9/2	2023/9/1
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling/Dcoupling Network Schwarzbeck	CDNE-M2	00097	2022/6/1	2023/5/31
	CDNE-M3	00091	2022/6/1	2023/5/31
Pre_Amplifier EMCI	EMC001340	980269	2022/6/28	2023/6/27
Pre_Amplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2022/6/30	2023/6/29
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		MY51210137	2022/6/9	2023/6/8
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. * The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA
2. The test was performed in Linkou 966 Chamber 6 (CH 6).
3. Tested Date: 2023/3/29

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Band Pass Filter MICRO-TRONICS	BRM17690	005	2022/5/26	2023/5/25
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	2022/5/26	2023/5/25
Horn Antenna EMCO	3115	00028257	2022/11/13	2023/11/12
Horn Antenna ETS-Lindgren	3117-PA	00215857	2023/2/3	2024/2/2
Horn Antenna Schwarzbeck	BBHA 9170	212	2022/10/20	2023/10/19
Notch Filter MICRO-TRONICS	BRC50703-01	010	2022/5/26	2023/5/25
Pre-amplifier HP	8449B	3008A01201	2023/2/16	2024/2/15
Pre-amplifier (18GHz-40GHz) EMCI	EMC184045B	980175	2022/9/3	2023/9/2
Pre_Amplifier EMCI	EMC0126545	980076	2023/2/16	2024/2/15
	EMC184045B	980235	2023/2/16	2024/2/15
RF Coaxial Cable EM	EM102-KMKM-3.5+1M	EM102-KMKM-3.5+1M-01	2022/7/7	2023/7/6
RF Coaxial Cable EMCI	EMC104	190801	2022/9/20	2023/9/19
		190804	2022/9/20	2023/9/19
RF Coaxial Cable HUBER SUHNER	SF-104	Cable-CH6-01	2022/9/20	2023/9/19
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
	Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4
		101544	2022/5/9	2023/5/8
Test Receiver Agilent	N9038A	MY51210137	2022/6/9	2023/6/8
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/3/31 ~ 2023/4/28

5 Limits of Test Items

5.1 RF Output Power

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

Operation Band	Limit
U-NII-3	1 Watt (30 dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.2 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-3	30 dBm/500 kHz

5.3 6 dB Bandwidth

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

5.4 Occupied Bandwidth

The results are for reference only.

5.5 Frequency Stability

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

5.6 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.

5.7 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).

5.8 Unwanted Emissions above 1 GHz

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBµV/m)	AV: 54 (dBµV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2 (dBµV/m) *1 PK: 105.2 (dBµV/m) *2 PK: 110.8 (dBµV/m) *3 PK: 122.2 (dBµV/m) *4
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

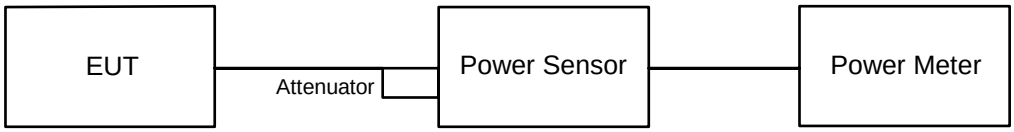
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

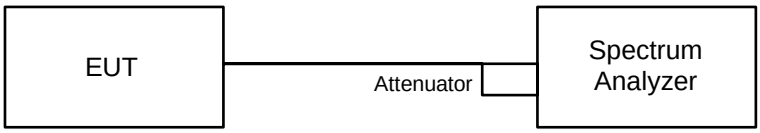


6.1.2 Test Procedure

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

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-1

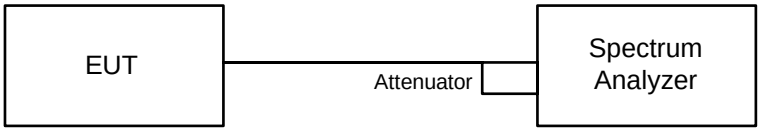
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger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

For specified measurement bandwidth 500 kHz:
Method SA-1

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

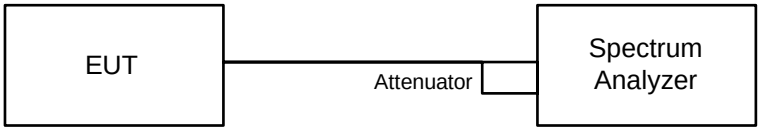


6.3.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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 Occupied Bandwidth

6.4.1 Test Setup

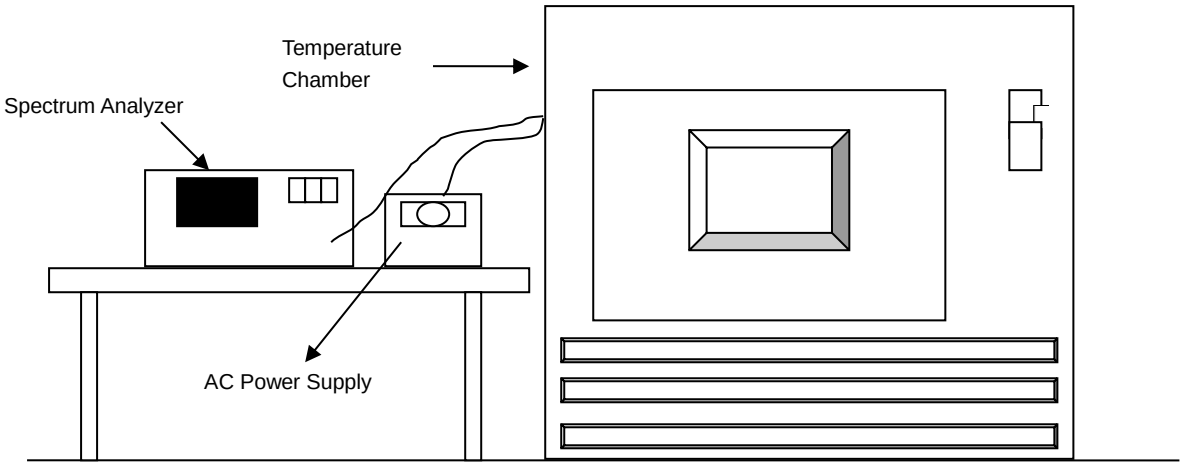


6.4.2 Test Procedure

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

6.5 Frequency Stability

6.5.1 Test Setup

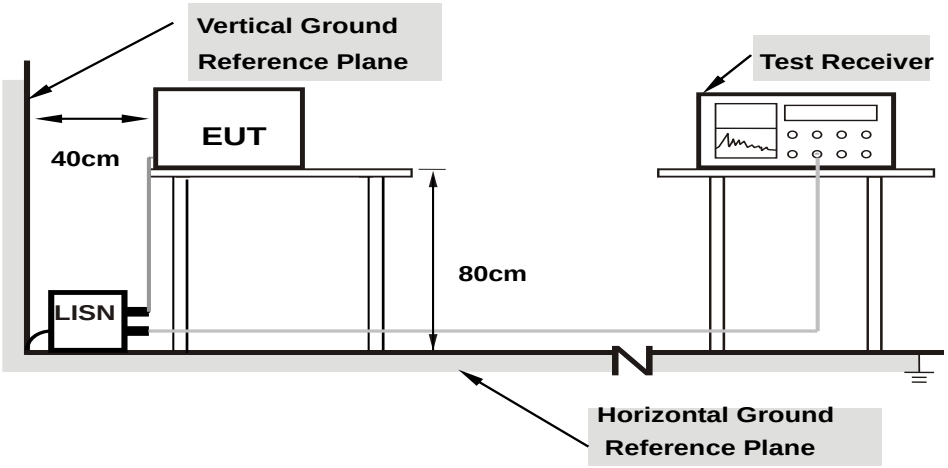


6.5.2 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
b. Turn the EUT on and couple its output to a spectrum analyzer.
c. Turn the EUT off and set the chamber to the highest temperature specified.
d. 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.
e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
f. 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.

6.6 AC Power Conducted Emissions

6.6.1 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).

6.6.2 Test Procedure

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

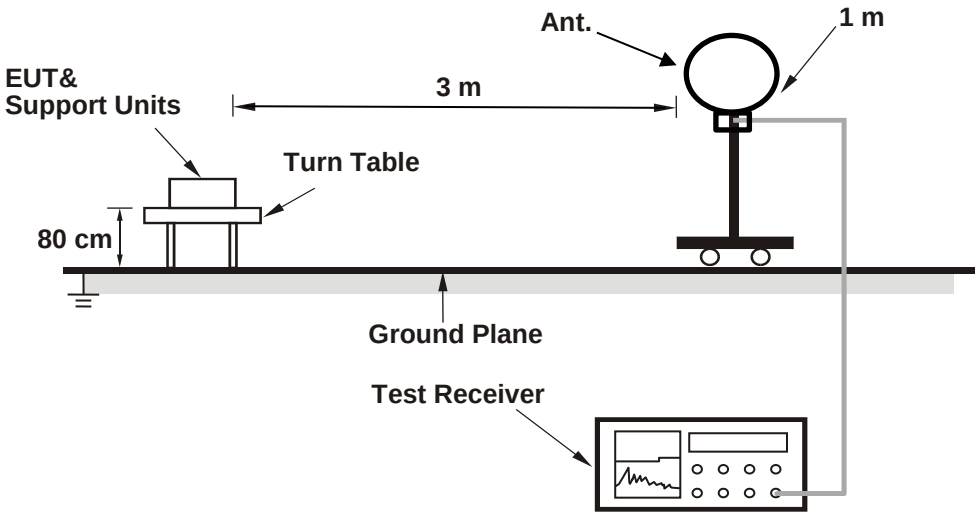
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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.

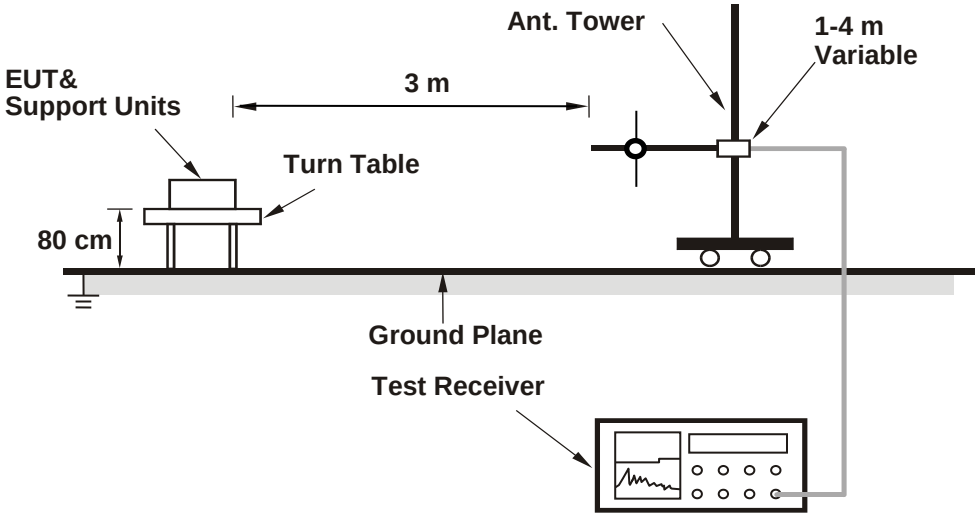
6.7 Unwanted Emissions below 1 GHz

6.7.1 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).

6.7.2 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.

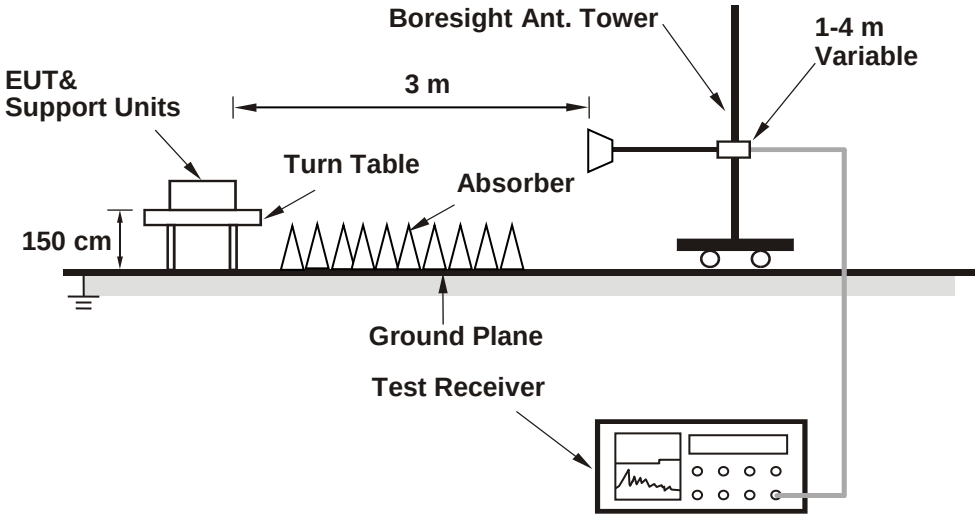
e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

a. 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.

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 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:

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

7 Test Results of Test Item

7.1 RF Output Power

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

Mode A

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.38	13.95	46.608	16.68	24	Pass
40	5200	13.31	13.89	45.92	16.62	24	Pass
48	5240	13.35	13.96	46.516	16.68	24	Pass
149	5745	5.77	6.89	8.662	9.38	30	Pass
157	5785	5.36	7.04	8.494	9.29	30	Pass
165	5825	5.46	7.17	8.728	9.41	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	13.98	14.58	53.711	17.30	24	Pass
40	5200	13.93	14.51	52.966	17.24	24	Pass
48	5240	13.86	14.51	52.571	17.21	24	Pass
149	5745	5.33	6.98	8.401	9.24	30	Pass
157	5785	5.40	6.81	8.265	9.17	30	Pass
165	5825	5.23	6.89	8.221	9.15	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	13.86	14.43	52.055	17.16	24	Pass
46	5230	13.92	14.50	52.844	17.23	24	Pass
151	5755	5.48	6.85	8.374	9.23	30	Pass
159	5795	5.55	6.89	8.476	9.28	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	13.97	14.40	52.488	17.20	24	Pass
155	5775	5.49	6.97	8.517	9.30	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	14.13	14.71	55.462	17.44	24	Pass
40	5200	14.08	14.64	54.693	17.38	24	Pass
48	5240	14.01	14.67	54.486	17.36	24	Pass
149	5745	5.46	7.13	8.68	9.39	30	Pass
157	5785	5.53	6.96	8.539	9.31	30	Pass
165	5825	5.38	7.02	8.486	9.29	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	14.01	14.56	53.753	17.30	24	Pass
46	5230	14.07	14.63	54.567	17.37	24	Pass
151	5755	5.61	7.00	8.651	9.37	30	Pass
159	5795	5.68	7.04	8.757	9.42	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	14.12	14.55	54.333	17.35	24	Pass
155	5775	5.64	7.11	8.805	9.45	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	4.06	5.73	6.288	7.99	24	Pass
40	5200	4.09	5.71	6.288	7.99	24	Pass
48	5240	4.05	5.99	6.513	8.14	24	Pass
149	5745	5.61	6.53	8.137	9.10	30	Pass
157	5785	5.58	6.52	8.102	9.09	30	Pass
165	5825	5.64	6.69	8.331	9.21	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	7.70	8.11	12.36	10.92	24	Pass
40	5200	7.71	8.20	12.509	10.97	24	Pass
48	5240	7.66	8.17	12.396	10.93	24	Pass
149	5745	5.67	6.48	8.136	9.10	30	Pass
157	5785	5.59	6.53	8.12	9.10	30	Pass
165	5825	5.51	6.62	8.148	9.11	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.03	11.17	25.768	14.11	24	Pass
40	5200	10.91	11.12	25.273	14.03	24	Pass
48	5240	10.88	11.06	25.011	13.98	24	Pass
149	5745	5.48	6.49	7.988	9.02	30	Pass
157	5785	5.46	6.45	7.931	8.99	30	Pass
165	5825	5.30	6.72	8.087	9.08	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.08 dBi < 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

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

Mode A

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-0.43	-0.18	2.71	10.09	Pass
40	5200	-0.43	-0.18	2.71	10.09	Pass
48	5240	-0.47	-0.14	2.71	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-0.43	-0.10	2.75	10.09	Pass
40	5200	-0.43	-0.08	2.76	10.09	Pass
48	5240	-0.47	-0.05	2.76	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-3.22	-3.01	-0.10	10.09	Pass
46	5230	-3.19	-2.95	-0.06	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-6.06	-5.88	-2.96	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-1.11	0.07	2.53	10.09	Pass
40	5200	-1.16	-0.03	2.45	10.09	Pass
48	5240	-1.39	0.31	2.55	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-0.68	-0.49	2.43	10.09	Pass
40	5200	-0.71	-0.46	2.43	10.09	Pass
48	5240	-0.76	-0.49	2.39	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-0.50	-0.35	2.59	10.09	Pass
40	5200	-0.57	-0.37	2.54	10.09	Pass
48	5240	-0.66	-0.47	2.45	10.09	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[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-1, the directional gain is 6.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(6.91-6) = 10.09 dBm/MHz.

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-16.58	-14.36	3.01	-11.35	29.09	Pass
	157	5785	-16.91	-14.69	3.01	-11.68	29.09	Pass
	165	5825	-16.94	-14.72	3.01	-11.71	29.09	Pass
Chain 1	149	5745	-15.6	-13.38	3.01	-10.37	29.09	Pass
	157	5785	-15.46	-13.24	3.01	-10.23	29.09	Pass
	165	5825	-15.39	-13.17	3.01	-10.16	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

802.11ax (HE20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-18.18	-15.96	3.01	-12.95	29.09	Pass
	157	5785	-18.22	-16	3.01	-12.99	29.09	Pass
	165	5825	-18.3	-16.08	3.01	-13.07	29.09	Pass
Chain 1	149	5745	-17.04	-14.82	3.01	-11.81	29.09	Pass
	157	5785	-17.18	-14.96	3.01	-11.95	29.09	Pass
	165	5825	-17.11	-14.89	3.01	-11.88	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

802.11ax (HE40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	151	5755	-21.37	-19.15	3.01	-16.14	29.09	Pass
	159	5795	-21.27	-19.05	3.01	-16.04	29.09	Pass
Chain 1	151	5755	-20.08	-17.86	3.01	-14.85	29.09	Pass
	159	5795	-20.09	-17.87	3.01	-14.86	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

802.11ax (HE80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	155	5775	-24.46	-22.24	3.01	-19.23	29.09	Pass
Chain 1	155	5775	-23.07	-20.85	3.01	-17.84	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

802.11ax (HE20) 26-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-8.44	-6.22	3.01	-3.21	29.09	Pass
	157	5785	-8.52	-6.3	3.01	-3.29	29.09	Pass
	165	5825	-8.38	-6.16	3.01	-3.15	29.09	Pass
Chain 1	149	5745	-7.74	-5.52	3.01	-2.51	29.09	Pass
	157	5785	-7.69	-5.47	3.01	-2.46	29.09	Pass
	165	5825	-7.61	-5.39	3.01	-2.38	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

802.11ax (HE20) 52-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-11.56	-9.34	3.01	-6.33	29.09	Pass
	157	5785	-11.91	-9.69	3.01	-6.68	29.09	Pass
	165	5825	-11.95	-9.73	3.01	-6.72	29.09	Pass
Chain 1	149	5745	-10.62	-8.4	3.01	-5.39	29.09	Pass
	157	5785	-10.71	-8.49	3.01	-5.48	29.09	Pass
	165	5825	-10.6	-8.38	3.01	-5.37	29.09	Pass

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

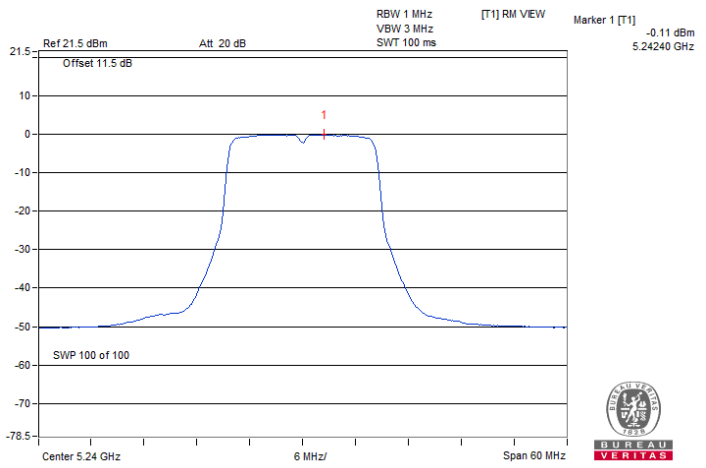
802.11ax (HE20) 106-tone RU

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
Chain 0	149	5745	-14.5	-12.28	3.01	-9.27	29.09	Pass
	157	5785	-14.6	-12.38	3.01	-9.37	29.09	Pass
	165	5825	-14.69	-12.47	3.01	-9.46	29.09	Pass
Chain 1	149	5745	-13.54	-11.32	3.01	-8.31	29.09	Pass
	157	5785	-13.75	-11.53	3.01	-8.52	29.09	Pass
	165	5825	-13.55	-11.33	3.01	-8.32	29.09	Pass

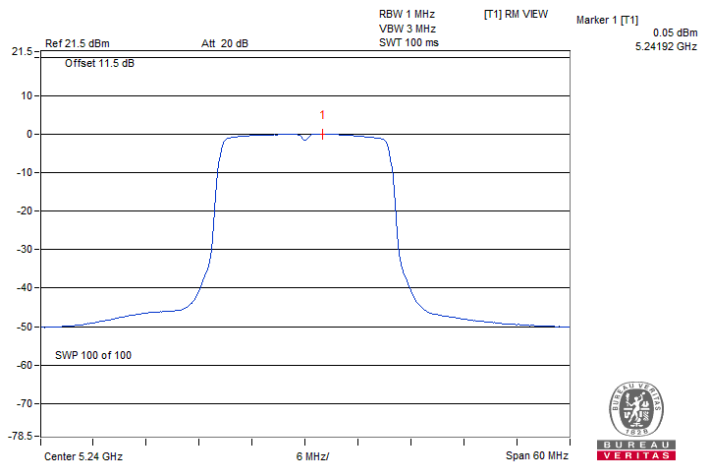
Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. For U-NII-3, the directional gain is 6.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.91-6) = 29.09 dBm/500kHz.

Spectrum Plot of Maximum Value

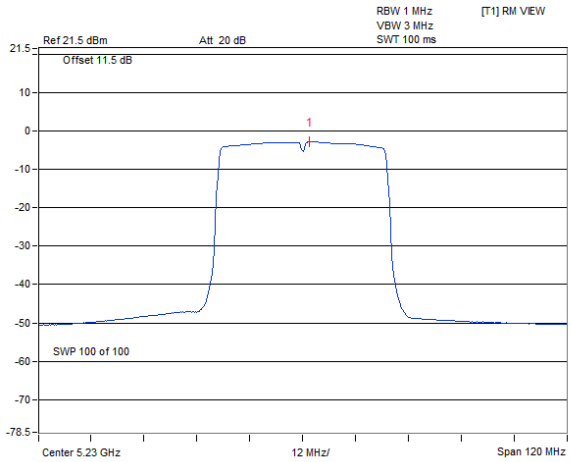


802.11a / Chain 1 : CH 48

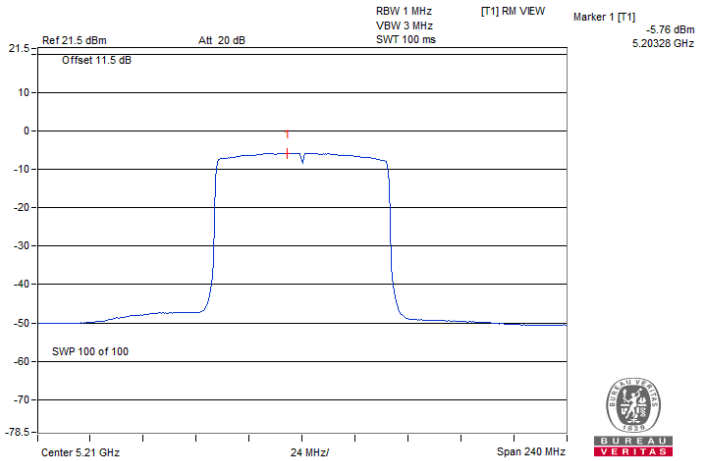


802.11ax (HE20) / Chain 1 : CH 48

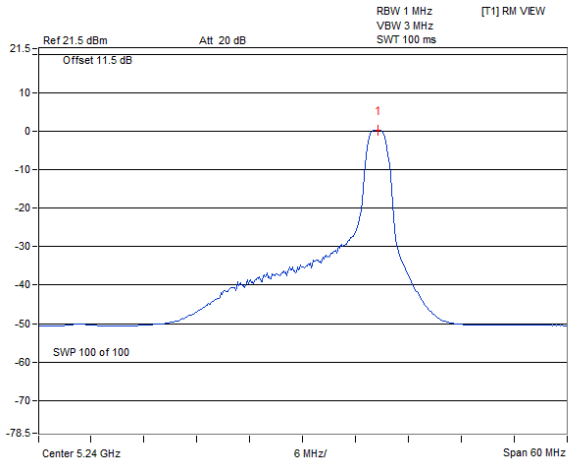
Spectrum Plot of Maximum Value



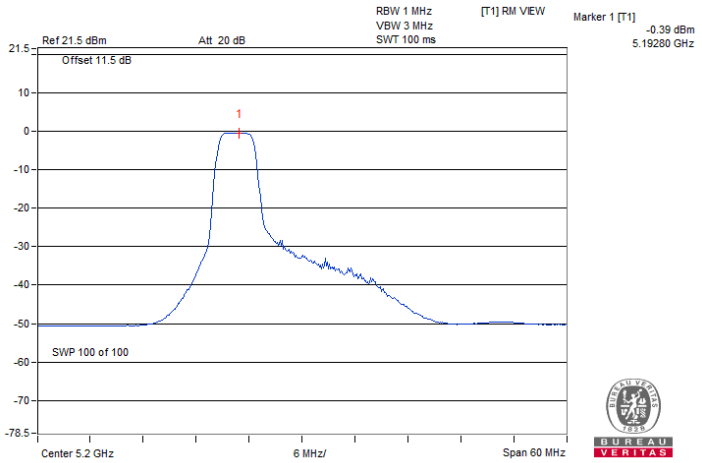
802.11ax (HE40) / Chain 1 : CH 46



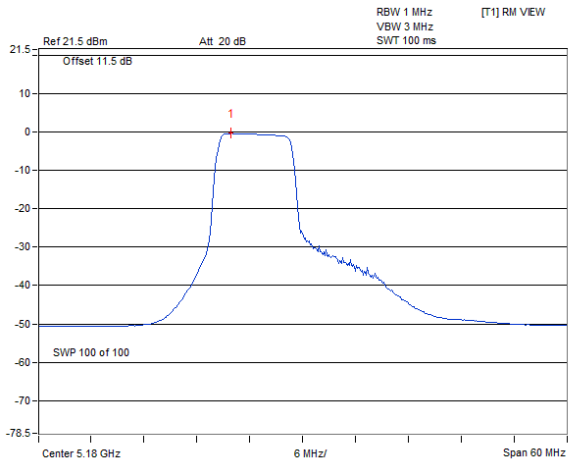
802.11ax (HE80) / Chain 1 : CH 42



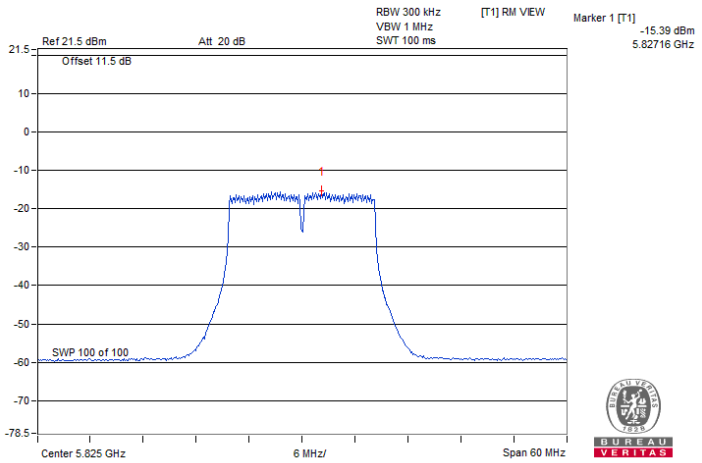
802.11ax (HE20) 26-tone RU / Chain 1 : CH 48@8



802.11ax (HE20) 52-tone RU / Chain 1 : CH 40@37

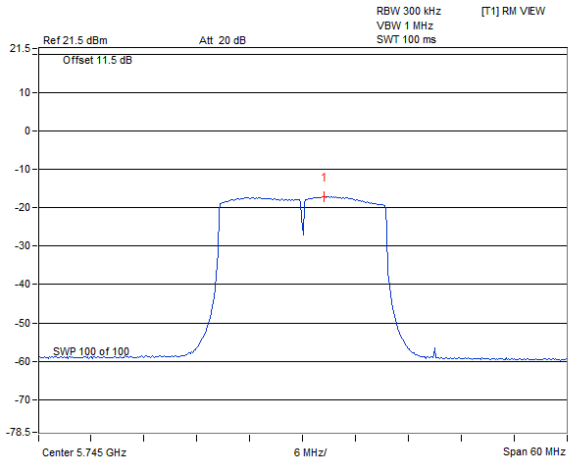


802.11ax (HE20) 106-tone RU / Chain 1 : CH 36@53

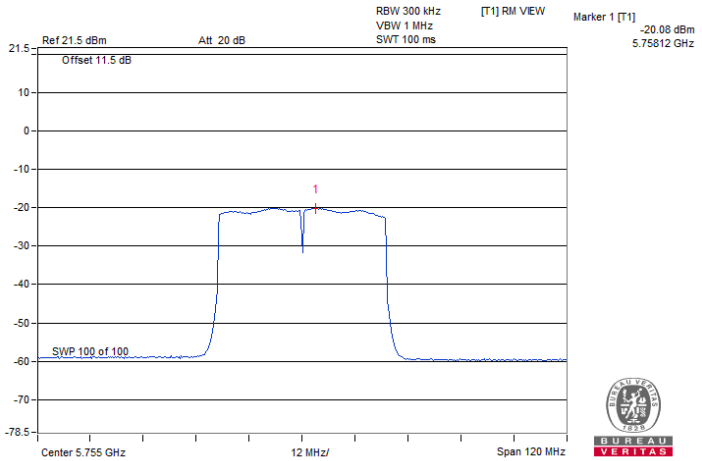


802.11a / Chain 1 : CH 165

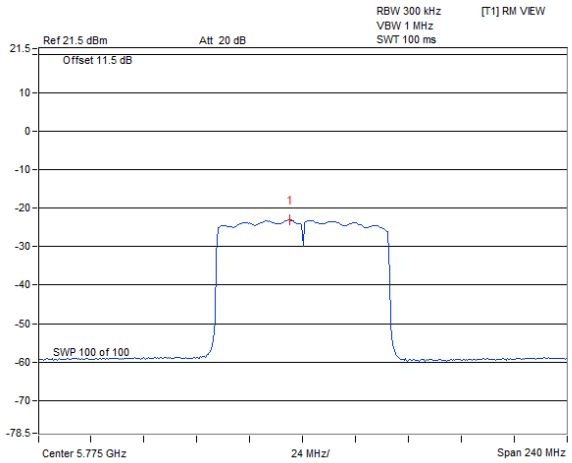
Spectrum Plot of Maximum Value



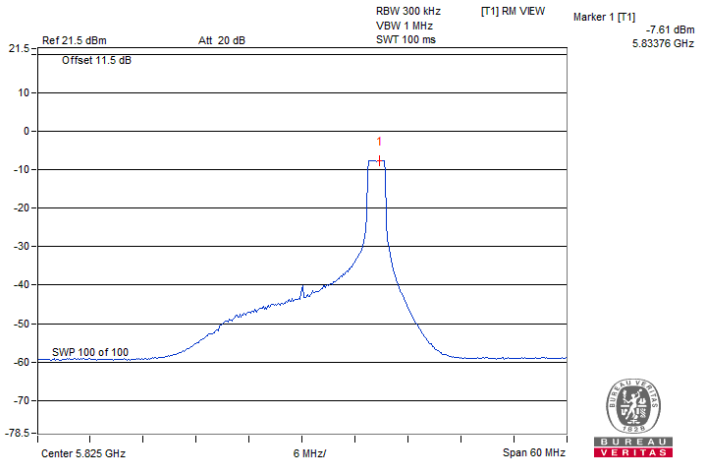
802.11ax (HE20) / Chain 1 : CH 149



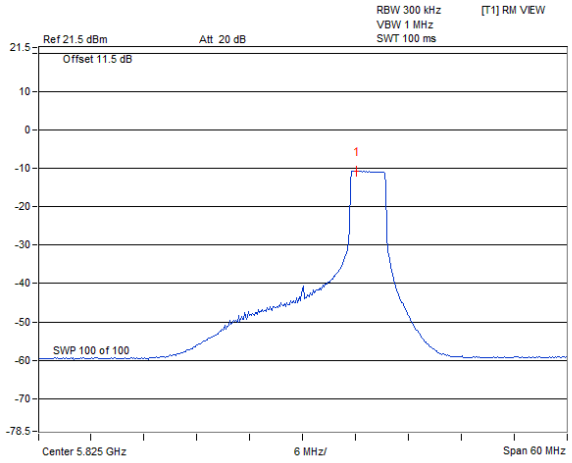
802.11ax (HE40) / Chain 1 : CH 151



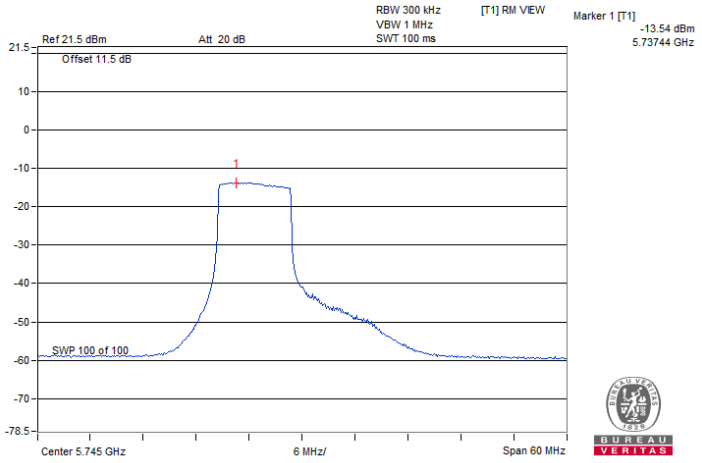
802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE20) 26-tone RU / Chain 1 : CH 165



802.11ax (HE20) 52-tone RU / Chain 1 : CH 165



802.11ax (HE20) 106-tone RU / Chain 1 : CH 149

7.3 6 dB Bandwidth

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

Mode A

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.39	16.38	0.5	Pass
157	5785	16.38	16.37	0.5	Pass
165	5825	16.39	16.37	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	18.96	18.78	0.5	Pass
157	5785	18.93	18.81	0.5	Pass
165	5825	18.82	18.80	0.5	Pass

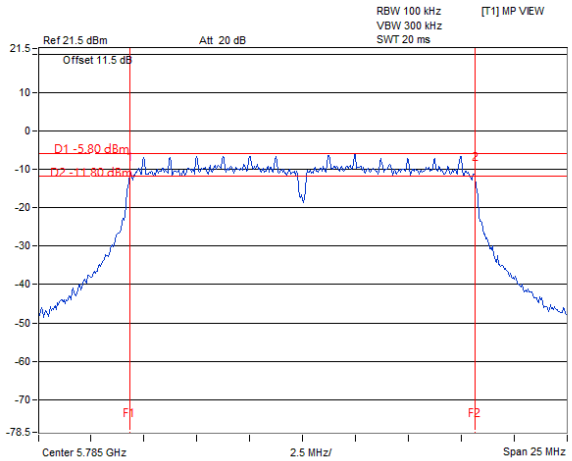
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	37.88	38.07	0.5	Pass
159	5795	37.71	37.83	0.5	Pass

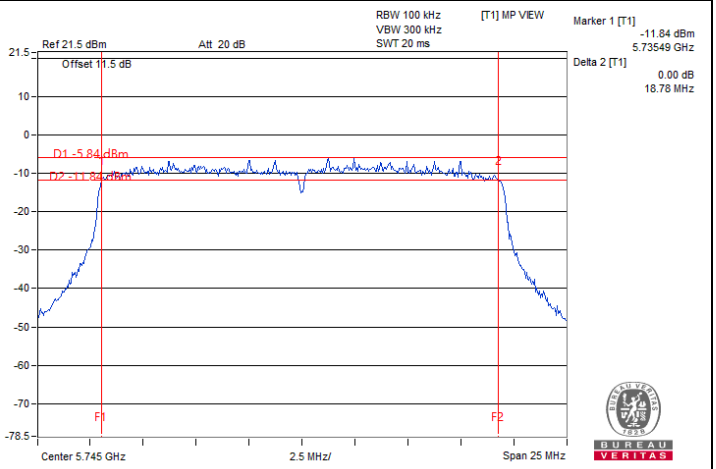
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	78.09	78.01	0.5	Pass

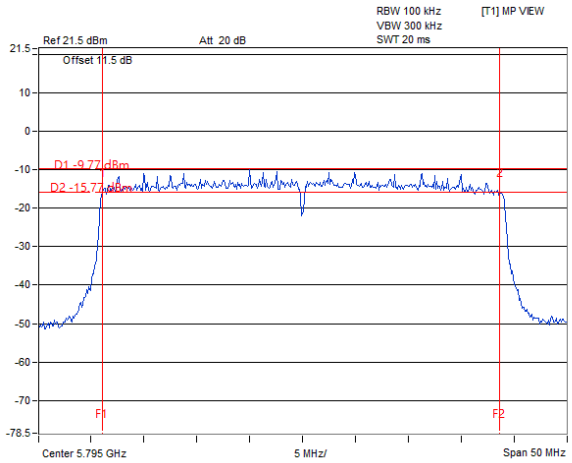
Spectrum Plot of Minimum Value



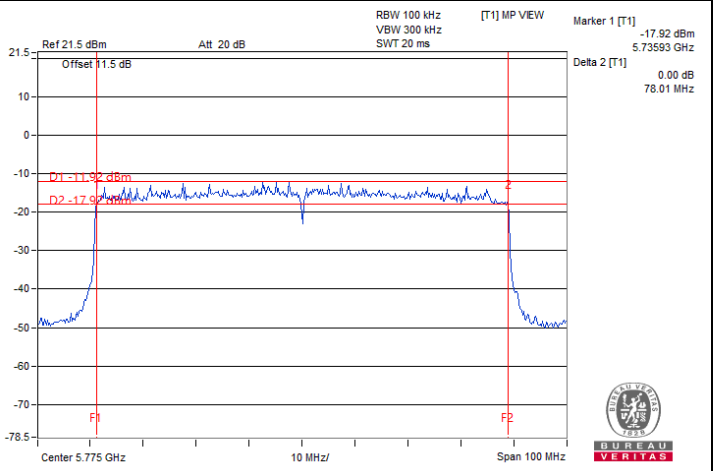
802.11a / Chain 1 : CH 157



802.11ax (HE20) / Chain 1 : CH 149



802.11ax (HE40) / Chain 0 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

7.4 Occupied Bandwidth

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

Mode A

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.56
48	5240	16.44	16.44
149	5745	16.44	16.56
157	5785	16.44	16.56
165	5825	16.44	16.56

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.96
40	5200	19.08	18.96
48	5240	19.08	19.08
149	5745	19.08	18.96
157	5785	19.08	19.08
165	5825	19.08	18.96

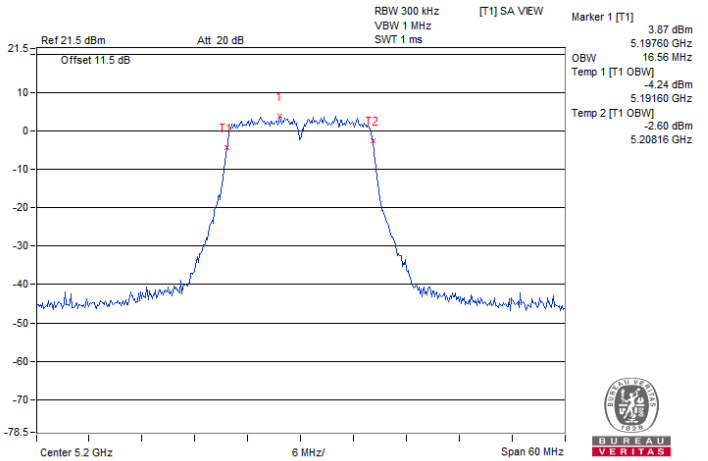
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.16	37.92
46	5230	38.16	37.92
151	5755	38.16	38.16
159	5795	38.40	38.16

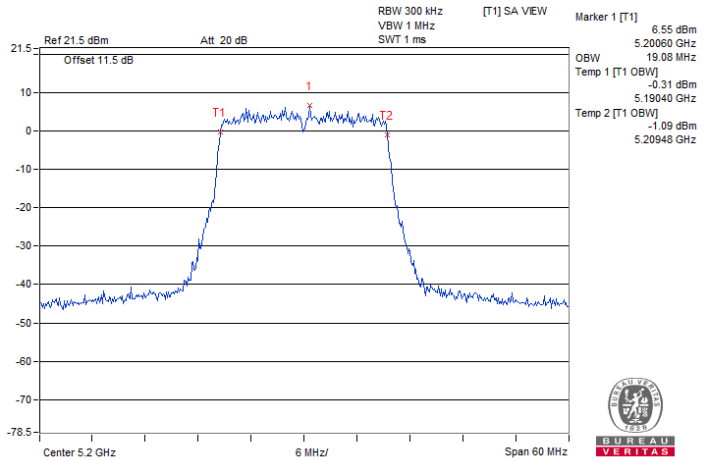
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
155	5775	77.28	77.28

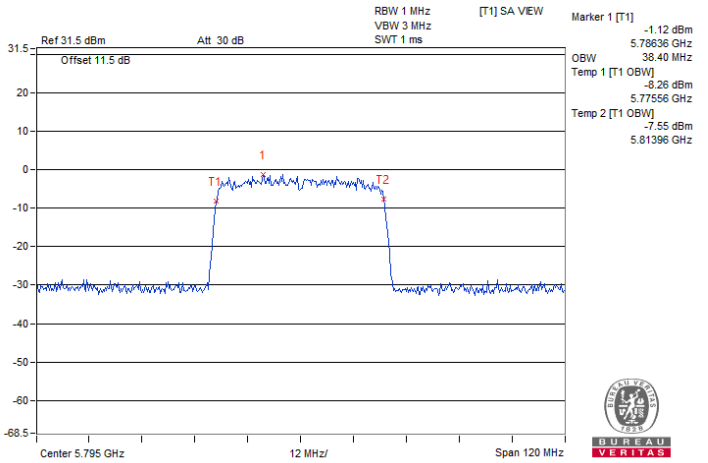
Spectrum Plot of Maximum Value



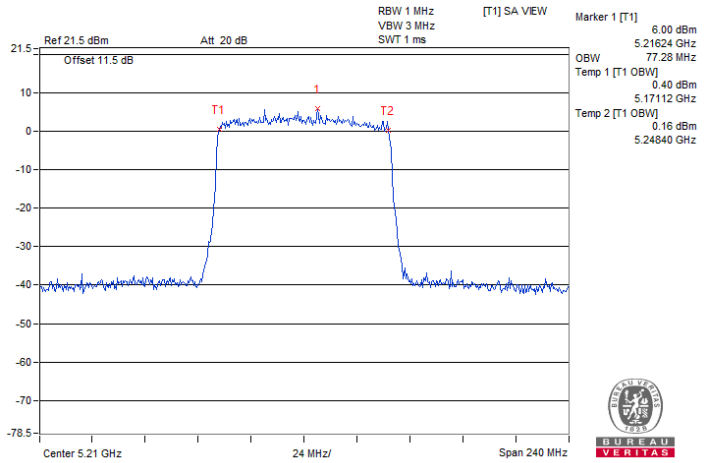
802.11a / Chain 1 : CH 40



802.11ax (HE20) / Chain 0 : CH 40

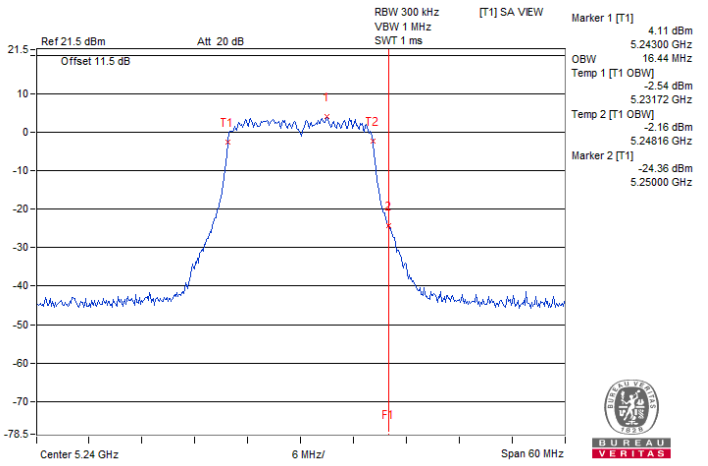


802.11ax (HE40) / Chain 0 : CH 159

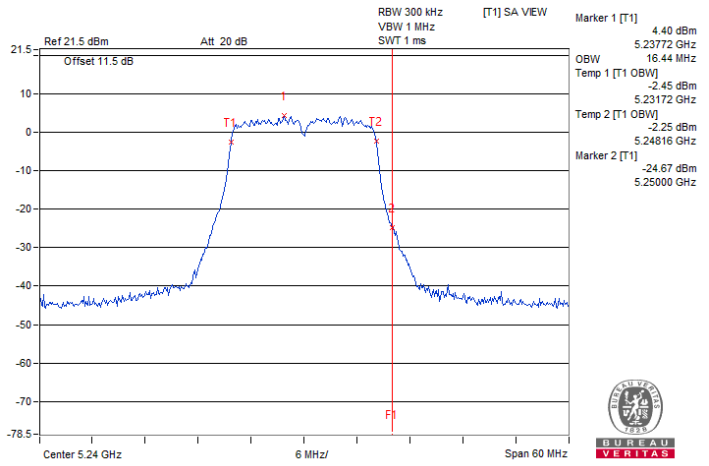


802.11ax (HE80) / Chain 0 : CH 42

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

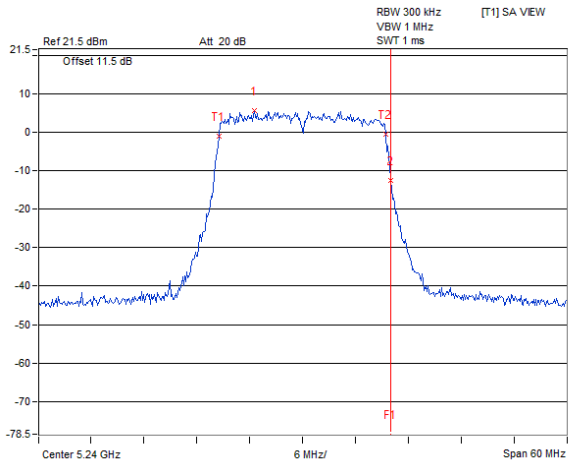


802.11a / Chain 0 : CH 48

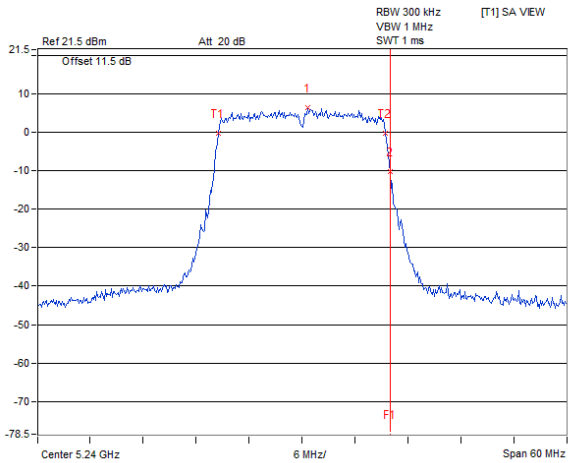


802.11a / Chain 1 : CH 48

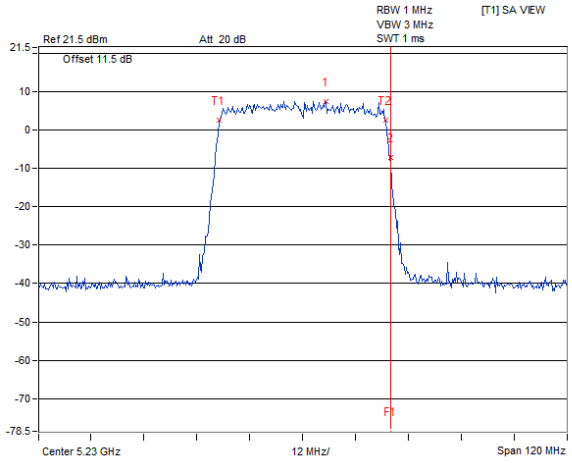
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



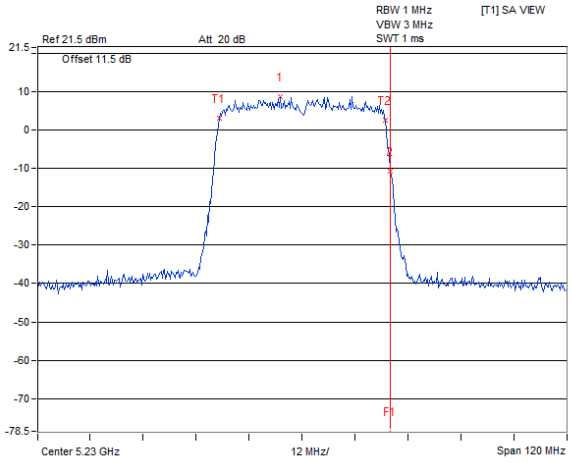
802.11ax (HE20) / Chain 0 : CH 48



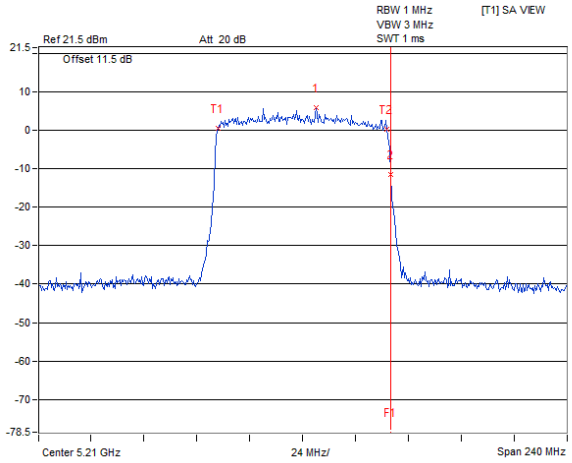
802.11ax (HE20) / Chain 1 : CH 48



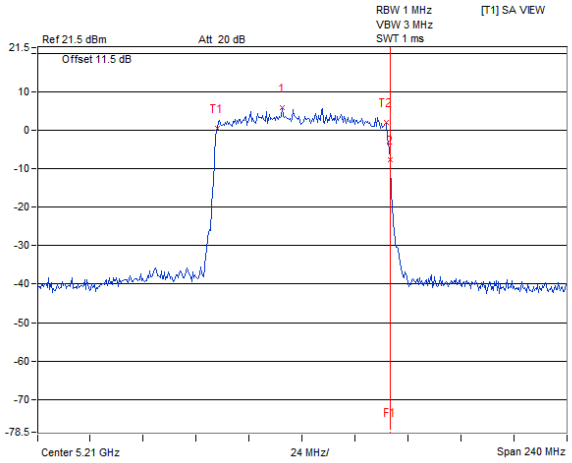
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



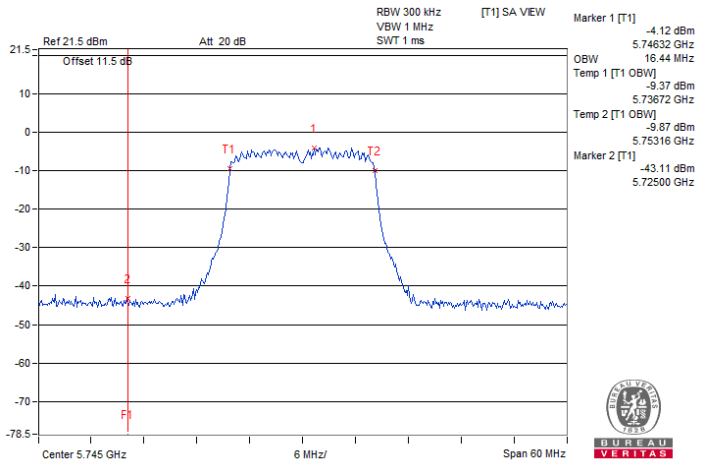
802.11ax (HE80) / Chain 0 : CH 42



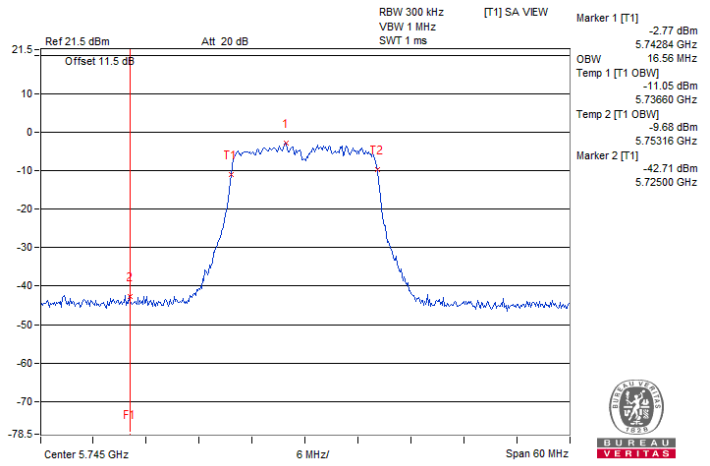
802.11ax (HE80) / Chain 1 : CH 42

Spectrum Plot for nearby DFS band

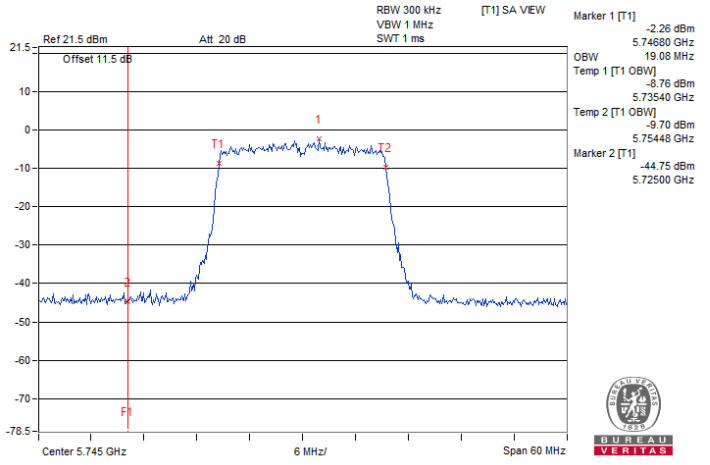
(DFS is required, if 99% OCP straddle into U-NII-2C)



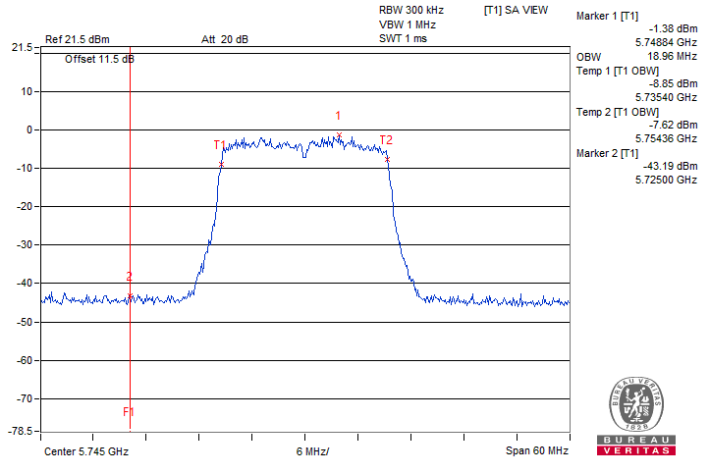
802.11a / Chain 0 : CH 149



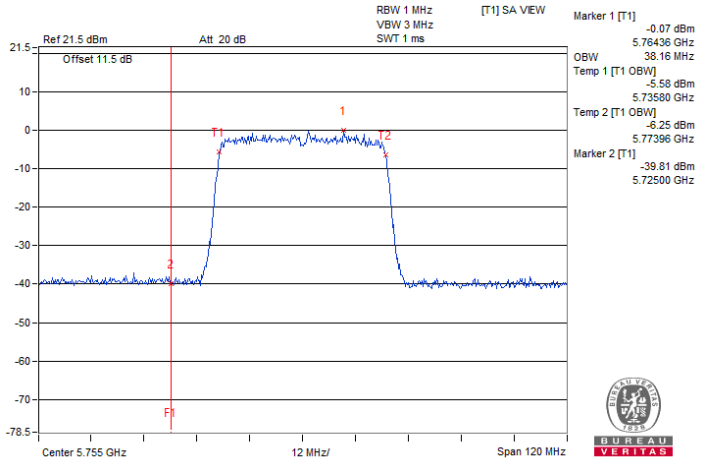
802.11a / Chain 1 : CH 149



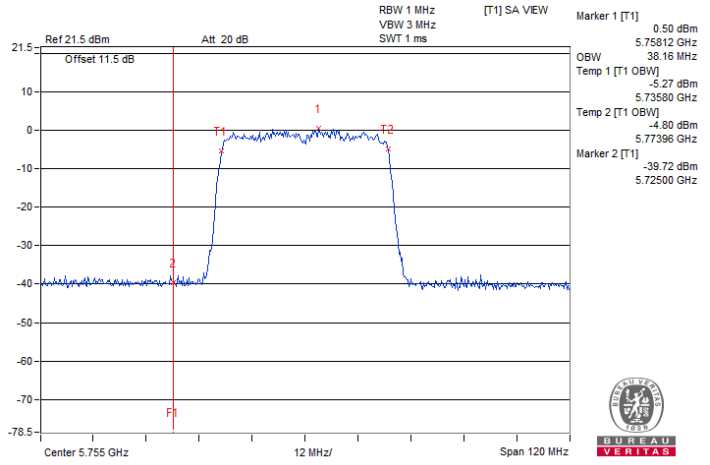
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



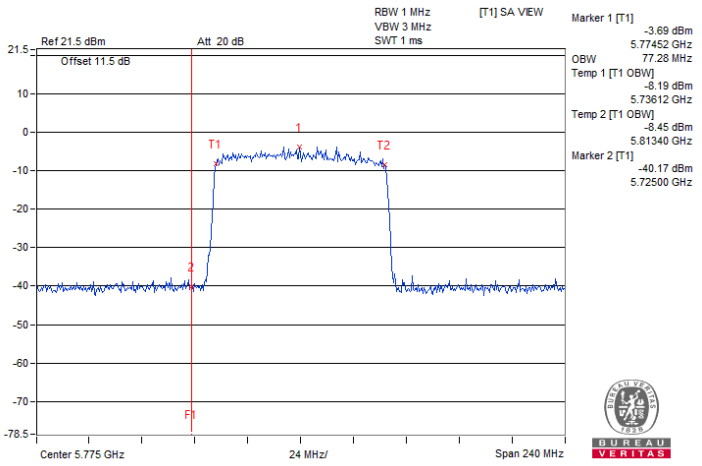
802.11ax (HE40) / Chain 0 : CH 151



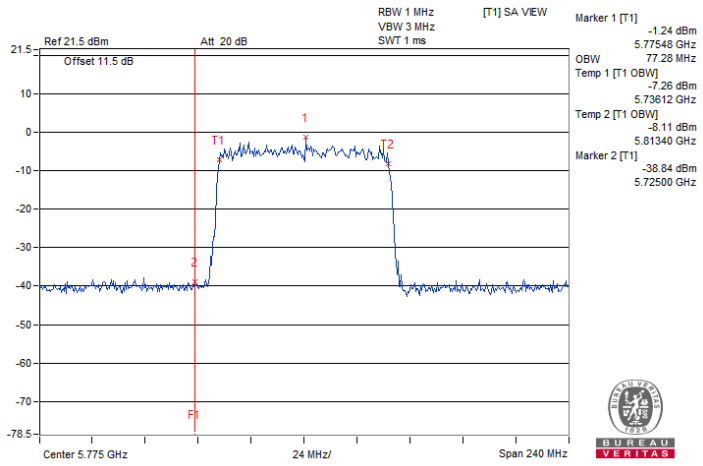
802.11ax (HE40) / Chain 1 : CH 151

Spectrum Plot for nearby DFS band

(DFS is required, if 99% OCP straddle into U-NII-2C)



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.5 Frequency Stability

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

Mode A

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5179.9778	Pass	5179.9818	Pass	5179.9825	Pass	5179.9815	Pass
30	120	5180.006	Pass	5180.0018	Pass	5180.0053	Pass	5180.0053	Pass
20	120	5179.9865	Pass	5179.9841	Pass	5179.9849	Pass	5179.9862	Pass
10	120	5180.0194	Pass	5180.0211	Pass	5180.0197	Pass	5180.0201	Pass
0	120	5179.9844	Pass	5179.9828	Pass	5179.9822	Pass	5179.984	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.9911	Pass	5179.9933	Pass	5179.9905	Pass	5179.9911	Pass
	120	5179.9865	Pass	5179.9841	Pass	5179.9849	Pass	5179.9862	Pass
	102	5179.9785	Pass	5179.9789	Pass	5179.9803	Pass	5179.9811	Pass

7.6 AC Power Conducted Emissions

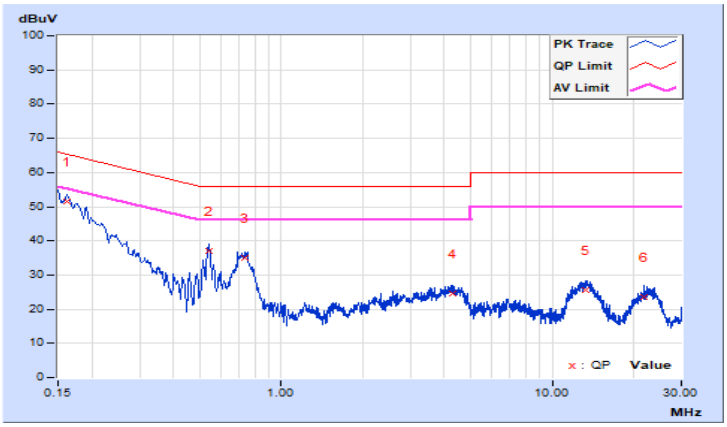
Mode A

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.16190	10.06	41.45	24.51	51.51	34.57	65.37	55.37	-13.86	-20.80
2	0.53969	10.24	26.79	23.83	37.03	34.07	56.00	46.00	-18.97	-11.93
3	0.73142	10.29	24.68	17.77	34.97	28.06	56.00	46.00	-21.03	-17.94
4	4.29050	10.51	13.98	4.68	24.49	15.19	56.00	46.00	-31.51	-30.81
5	13.23137	10.74	14.97	9.57	25.71	20.31	60.00	50.00	-34.29	-29.69
6	21.95750	10.84	12.60	7.80	23.44	18.64	60.00	50.00	-36.56	-31.36

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

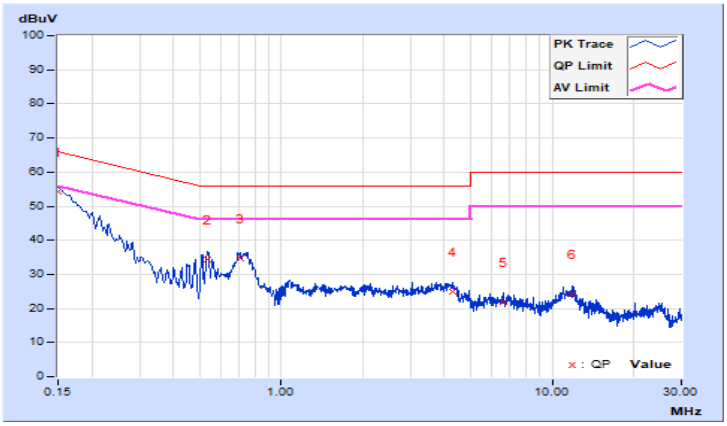


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15000	10.06	44.20	26.90	54.26	36.96	66.00	56.00	-11.74	-19.04
2	0.53192	10.21	24.21	18.50	34.42	28.71	56.00	46.00	-21.58	-17.29
3	0.70237	10.23	24.32	17.51	34.55	27.74	56.00	46.00	-21.45	-18.26
4	4.31843	10.44	14.52	6.37	24.96	16.81	56.00	46.00	-31.04	-29.19
5	6.58802	10.53	11.50	6.00	22.03	16.53	60.00	50.00	-37.97	-33.47
6	11.88275	10.71	13.46	6.88	24.17	17.59	60.00	50.00	-35.83	-32.41

Remarks:

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



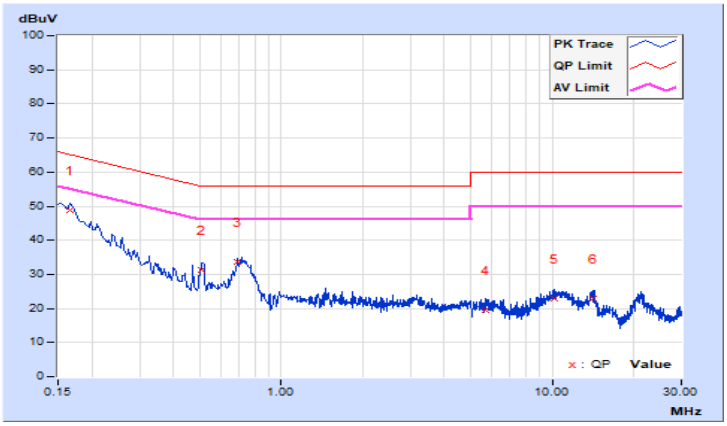
Mode B

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.16596	10.06	38.88	22.13	48.94	32.19	65.16	55.16	-16.22	-22.97
2	0.50796	10.24	20.91	14.92	31.15	25.16	56.00	46.00	-24.85	-20.84
3	0.69152	10.28	23.24	16.00	33.52	26.28	56.00	46.00	-22.48	-19.72
4	5.70224	10.55	9.13	4.34	19.68	14.89	60.00	50.00	-40.32	-35.11
5	10.14311	10.66	12.32	6.98	22.98	17.64	60.00	50.00	-37.02	-32.36
6	14.09321	10.76	12.29	7.42	23.05	18.18	60.00	50.00	-36.95	-31.82

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

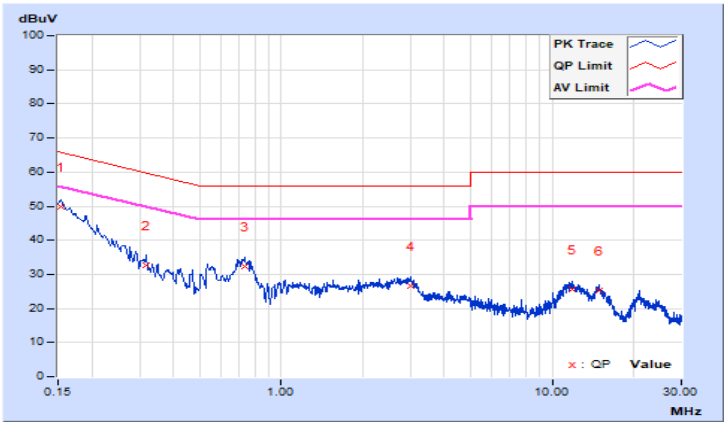


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15399	10.07	39.83	21.92	49.90	31.99	65.78	55.78	-15.88	-23.79
2	0.31758	10.19	22.61	12.25	32.80	22.44	59.77	49.77	-26.97	-27.33
3	0.73142	10.23	22.03	15.56	32.26	25.79	56.00	46.00	-23.74	-20.21
4	3.02168	10.36	16.37	8.48	26.73	18.84	56.00	46.00	-29.27	-27.16
5	11.90270	10.71	14.97	10.09	25.68	20.80	60.00	50.00	-34.32	-29.20
6	14.83136	10.78	14.42	8.91	25.20	19.69	60.00	50.00	-34.80	-30.31

Remarks:

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



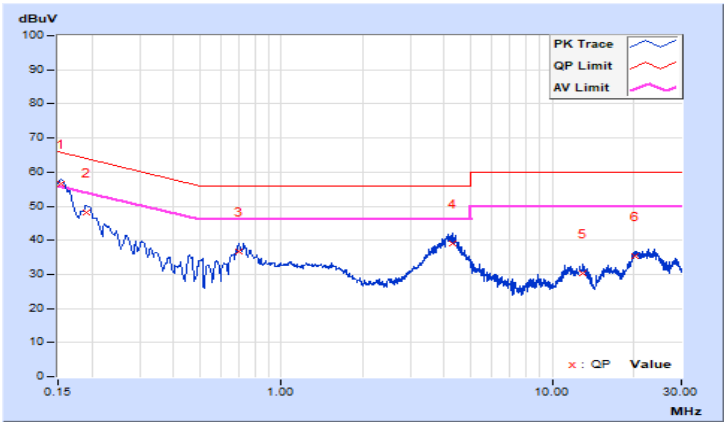
Mode C

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15399	10.04	46.43	30.92	56.47	40.96	65.78	55.78	-9.31	-14.82
2	0.18990	10.10	38.19	23.48	48.29	33.58	64.04	54.04	-15.75	-20.46
3	0.69950	10.28	26.48	20.55	36.76	30.83	56.00	46.00	-19.24	-15.17
4	4.30646	10.51	28.58	22.43	39.09	32.94	56.00	46.00	-16.91	-13.06
5	12.95207	10.73	19.56	14.59	30.29	25.32	60.00	50.00	-29.71	-24.68
6	20.35751	10.83	24.66	19.77	35.49	30.60	60.00	50.00	-24.51	-19.40

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

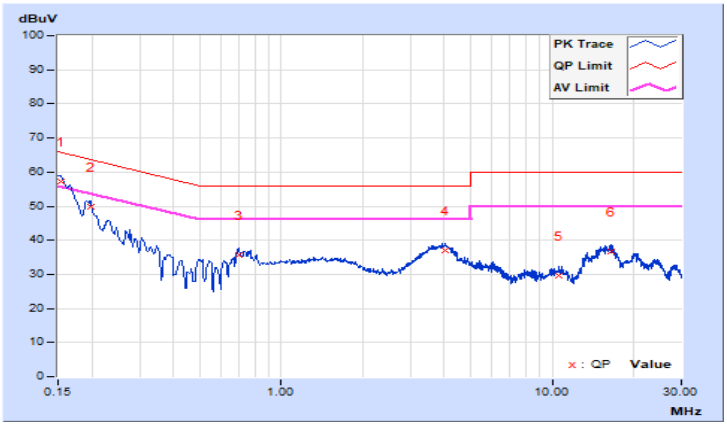


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	**0.15399**	**10.07**	**47.28**	**31.88**	**57.35**	**41.95**	**65.78**	**55.78**	**-8.43**	**-13.83**
2	0.19726	10.17	39.68	24.98	49.85	35.15	63.73	53.73	-13.88	-18.58
3	0.69551	10.23	25.50	19.97	35.73	30.20	56.00	46.00	-20.27	-15.80
4	4.03913	10.43	26.52	21.49	36.95	31.92	56.00	46.00	-19.05	-14.08
5	10.57802	10.67	19.03	14.13	29.70	24.80	60.00	50.00	-30.30	-25.20
6	16.40741	10.79	25.99	21.08	36.78	31.87	60.00	50.00	-23.22	-18.13

Remarks:

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



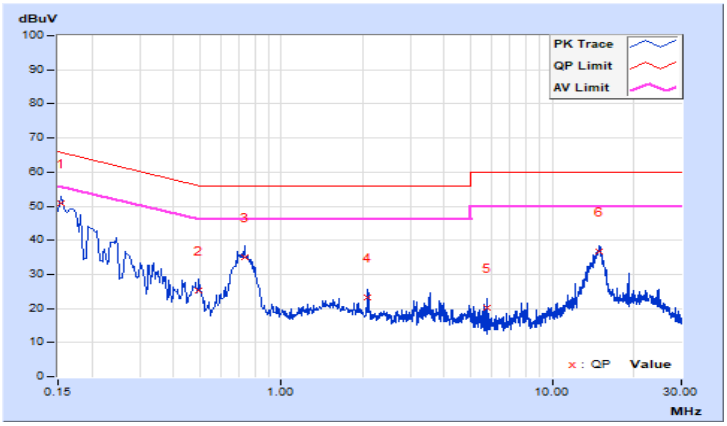
Mode D

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15399	10.00	40.80	13.90	50.80	23.90	65.78	55.78	-14.98	-31.88
2	0.49713	10.07	15.28	7.30	25.35	17.37	56.05	46.05	-30.70	-28.68
3	0.73142	10.08	24.86	17.85	34.94	27.93	56.00	46.00	-21.06	-18.07
4	2.08403	10.09	13.26	9.08	23.35	19.17	56.00	46.00	-32.65	-26.83
5	5.78603	10.23	9.83	3.70	20.06	13.93	60.00	50.00	-39.94	-36.07
6	14.93510	10.45	26.18	20.09	36.63	30.54	60.00	50.00	-23.37	-19.46

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

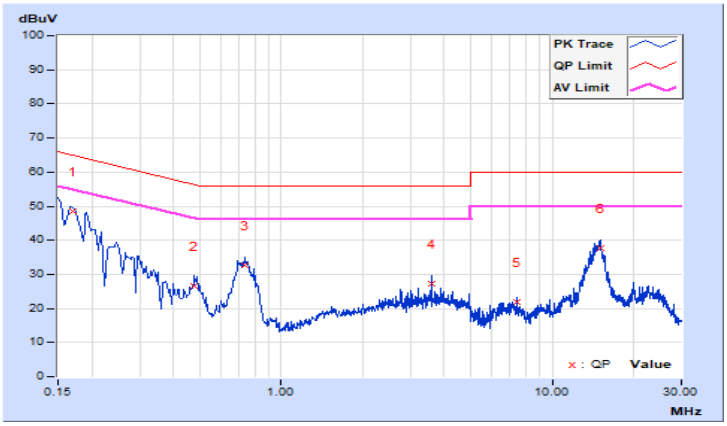


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25°C, 49.6% RH
Tested By	Jed Wu		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.16995	10.03	38.44	22.46	48.47	32.49	64.96	54.96	-16.49	-22.47
2	0.47718	10.07	16.55	7.53	26.62	17.60	56.39	46.39	-29.77	-28.79
3	0.73142	10.09	22.59	15.84	32.68	25.93	56.00	46.00	-23.32	-20.07
4	3.59225	10.17	16.96	8.41	27.13	18.58	56.00	46.00	-28.87	-27.42
5	7.43789	10.28	11.69	6.78	21.97	17.06	60.00	50.00	-38.03	-32.94
6	15.01889	10.47	27.09	21.13	37.56	31.60	60.00	50.00	-22.44	-18.40

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



7.7 Unwanted Emissions below 1 GHz

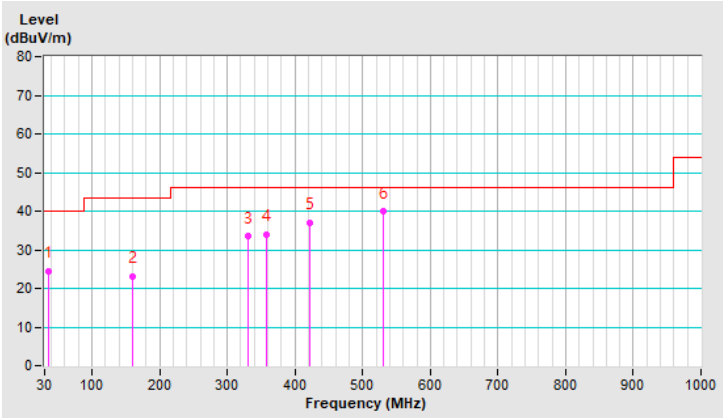
Mode A

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	35.53	24.5 QP	40.0	-15.5	1.18 H	241	34.7	-10.2
2	160.37	23.0 QP	43.5	-20.5	1.24 H	273	31.2	-8.2
3	330.26	33.4 QP	46.0	-12.6	1.30 H	360	38.5	-5.1
4	357.91	34.0 QP	46.0	-12.0	1.06 H	360	39.0	-5.0
5	422.46	37.1 QP	46.0	-8.9	1.79 H	360	40.2	-3.1
6	**529.89**	**39.9 QP**	**46.0**	**-6.1**	**1.84 H**	**8**	**41.0**	**-1.1**

Remarks:

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

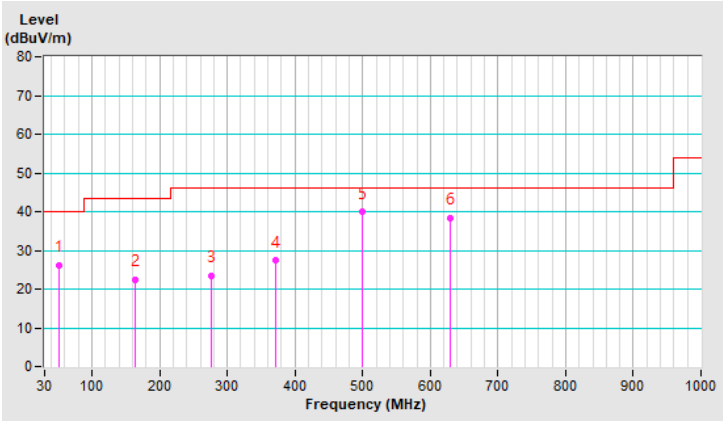


RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	50.52	26.1 QP	40.0	-13.9	1.47 V	270	34.6	-8.5
2	163.18	22.4 QP	43.5	-21.1	1.39 V	182	30.7	-8.3
3	275.85	23.5 QP	46.0	-22.5	1.62 V	291	30.3	-6.8
4	371.78	27.3 QP	46.0	-18.7	1.58 V	0	31.9	-4.6
5	**500.26**	**39.9 QP**	**46.0**	**-6.1**	**1.27 V**	**12**	**41.6**	**-1.7**
6	629.85	38.3 QP	46.0	-7.7	1.03 V	12	36.8	1.5

Remarks:

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



7.8 Unwanted Emissions above 1 GHz

Mode A

RF Mode	802.11a	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.0 PK	74.0	-14.0	3.08 H	138	51.7	8.3
2	5150.00	48.2 AV	54.0	-5.8	3.08 H	138	39.9	8.3
3	*5180.00	106.9 PK			3.08 H	138	98.5	8.4
4	*5180.00	98.1 AV			3.08 H	138	89.7	8.4
5	#10360.00	53.6 PK	68.2	-14.6	2.76 H	114	38.0	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.8 PK	74.0	-13.2	1.81 V	95	52.5	8.3
2	5150.00	48.4 AV	54.0	-5.6	1.81 V	95	40.1	8.3
3	*5180.00	109.9 PK			1.81 V	95	101.5	8.4
4	*5180.00	101.4 AV			1.81 V	95	93.0	8.4
5	#10360.00	54.0 PK	68.2	-14.2	1.66 V	32	38.4	15.6

Remarks:

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

RF Mode	802.11a	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	106.4 PK			3.05 H	141	98.0	8.4
2	*5200.00	97.7 AV			3.05 H	141	89.3	8.4
3	#10400.00	54.0 PK	68.2	-14.2	2.73 H	118	38.1	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	109.4 PK			1.78 V	98	101.0	8.4
2	*5200.00	100.9 AV			1.78 V	98	92.5	8.4
3	#10400.00	54.4 PK	68.2	-13.8	1.62 V	35	38.5	15.9

Remarks:

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

RF Mode	802.11a	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	107.5 PK			3.07 H	323	98.7	8.8
2	*5240.00	98.4 AV			3.07 H	323	89.6	8.8
3	5350.00	59.8 PK	74.0	-14.2	3.07 H	323	50.7	9.1
4	5350.00	48.1 AV	54.0	-5.9	3.07 H	323	39.0	9.1
5	#10480.00	53.8 PK	68.2	-14.4	2.75 H	256	38.2	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	110.2 PK			1.80 V	280	101.4	8.8
2	*5240.00	101.4 AV			1.80 V	280	92.6	8.8
3	5350.00	60.5 PK	74.0	-13.5	1.80 V	280	51.4	9.1
4	5350.00	48.4 AV	54.0	-5.6	1.80 V	280	39.3	9.1
5	#10480.00	54.2 PK	68.2	-14.0	1.64 V	217	38.6	15.6

Remarks:

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

RF Mode	802.11a	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5550.48	59.7 PK	68.2	-8.5	1.05 H	147	50.8	8.9
2	*5745.00	98.7 PK			1.05 H	147	90.4	8.3
3	*5745.00	91.2 AV			1.05 H	147	82.9	8.3
4	#6024.05	59.8 PK	68.2	-8.4	1.05 H	147	50.9	8.9
5	11490.00	57.0 PK	74.0	-17.0	1.00 H	123	39.2	17.8
6	11490.00	44.6 AV	54.0	-9.4	1.00 H	123	26.8	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5562.35	60.2 PK	68.2	-8.0	3.84 V	104	51.4	8.8
2	*5745.00	101.7 PK			3.84 V	104	93.4	8.3
3	*5745.00	93.5 AV			3.84 V	104	85.2	8.3
4	#5987.48	59.9 PK	68.2	-8.3	3.84 V	104	51.1	8.8
5	11490.00	57.4 PK	74.0	-16.6	3.69 V	41	39.6	17.8
6	11490.00	45.0 AV	54.0	-9.0	3.69 V	41	27.2	17.8

Remarks:

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

RF Mode	802.11a	**Channel**	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5592.75	60.2 PK	68.2	-8.0	1.02 H	299	51.6	8.6
2	*5785.00	98.9 PK			1.02 H	299	90.7	8.2
3	*5785.00	90.1 AV			1.02 H	299	81.9	8.2
4	#6017.87	60.3 PK	68.2	-7.9	1.02 H	299	51.4	8.9
5	11570.00	57.4 PK	74.0	-16.6	1.03 H	275	39.6	17.8
6	11570.00	45.0 AV	54.0	-9.0	1.03 H	275	27.2	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5560.93	59.8 PK	68.2	-8.4	3.81 V	256	51.0	8.8
2	*5785.00	102.0 PK			3.81 V	256	93.8	8.2
3	*5785.00	93.6 AV			3.81 V	256	85.4	8.2
4	#6007.90	59.6 PK	68.2	-8.6	3.81 V	256	50.8	8.8
5	11570.00	57.8 PK	74.0	-16.2	3.66 V	193	40.0	17.8
6	11570.00	45.4 AV	54.0	-8.6	3.66 V	193	27.6	17.8

Remarks:

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

RF Mode	802.11a	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5561.40	59.6 PK	68.2	-8.6	1.13 H	294	50.8	8.8
2	*5825.00	98.4 PK			1.13 H	294	90.2	8.2
3	*5825.00	89.7 AV			1.13 H	294	81.5	8.2
4	#6020.25	60.1 PK	68.2	-8.1	1.13 H	294	51.2	8.9
5	11650.00	56.7 PK	74.0	-17.3	1.08 H	270	39.0	17.7
6	11650.00	44.3 AV	54.0	-9.7	1.08 H	270	26.6	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5604.15	60.4 PK	68.2	-7.8	3.76 V	251	51.8	8.6
2	*5825.00	101.4 PK			3.76 V	251	93.2	8.2
3	*5825.00	92.8 AV			3.76 V	251	84.6	8.2
4	#5973.70	60.4 PK	68.2	-7.8	3.76 V	251	51.8	8.6
5	11650.00	57.1 PK	74.0	-16.9	3.61 V	188	39.4	17.7
6	11650.00	44.7 AV	54.0	-9.3	3.61 V	188	27.0	17.7

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.0 PK	74.0	-14.0	3.07 H	137	51.7	8.3
2	5150.00	48.4 AV	54.0	-5.6	3.07 H	137	40.1	8.3
3	*5180.00	110.7 PK			3.07 H	137	102.3	8.4
4	*5180.00	99.4 AV			3.07 H	137	91.0	8.4
5	#10360.00	54.5 PK	68.2	-13.7	2.75 H	113	38.9	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	60.8 PK	74.0	-13.2	1.80 V	95	52.5	8.3
2	5150.00	48.8 AV	54.0	-5.2	1.80 V	95	40.5	8.3
3	*5180.00	113.8 PK			1.80 V	95	105.4	8.4
4	*5180.00	102.1 AV			1.80 V	95	93.7	8.4
5	#10360.00	54.9 PK	68.2	-13.3	1.67 V	33	39.3	15.6

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	110.5 PK			3.05 H	134	102.1	8.4
2	*5200.00	98.9 AV			3.05 H	134	90.5	8.4
3	#10400.00	55.0 PK	68.2	-13.2	2.79 H	118	39.1	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	113.5 PK			1.78 V	91	105.1	8.4
2	*5200.00	101.8 AV			1.78 V	91	93.4	8.4
3	#10400.00	55.4 PK	68.2	-12.8	1.65 V	37	39.5	15.9

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	110.4 PK			3.08 H	323	101.6	8.8
2	*5240.00	98.8 AV			3.08 H	323	90.0	8.8
3	5350.00	59.8 PK	74.0	-14.2	3.08 H	323	50.7	9.1
4	5350.00	48.4 AV	54.0	-5.6	3.08 H	323	39.3	9.1
5	#10480.00	54.0 PK	68.2	-14.2	2.75 H	299	38.4	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	113.3 PK			1.81 V	280	104.5	8.8
2	*5240.00	101.8 AV			1.81 V	280	93.0	8.8
3	5350.00	60.3 PK	74.0	-13.7	1.81 V	280	51.2	9.1
4	5350.00	48.5 AV	54.0	-5.5	1.81 V	280	39.4	9.1
5	#10480.00	54.4 PK	68.2	-13.8	1.69 V	226	38.8	15.6

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5561.87	59.8 PK	68.2	-8.4	1.10 H	99	51.0	8.8
2	*5745.00	100.3 PK			1.10 H	99	92.0	8.3
3	*5745.00	88.9 AV			1.10 H	99	80.6	8.3
4	#6005.52	60.1 PK	68.2	-8.1	1.10 H	99	51.3	8.8
5	11490.00	58.6 PK	74.0	-15.4	1.05 H	75	40.8	17.8
6	11490.00	46.2 AV	54.0	-7.8	1.05 H	75	28.4	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5555.23	60.2 PK	68.2	-8.0	3.79 V	56	51.4	8.8
2	*5745.00	103.3 PK			3.79 V	56	95.0	8.3
3	*5745.00	91.4 AV			3.79 V	56	83.1	8.3
4	#5962.77	61.3 PK	68.2	-6.9	3.79 V	56	52.7	8.6
5	11490.00	59.0 PK	74.0	-15.0	3.64 V	353	41.2	17.8
6	11490.00	46.6 AV	54.0	-7.4	3.64 V	353	28.8	17.8

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5636.45	60.0 PK	68.2	-8.2	1.11 H	149	51.6	8.4
2	*5785.00	101.5 PK			1.11 H	149	93.3	8.2
3	*5785.00	90.2 AV			1.11 H	149	82.0	8.2
4	#5970.85	59.9 PK	68.2	-8.3	1.11 H	149	51.3	8.6
5	11570.00	57.2 PK	74.0	-16.8	1.06 H	125	39.4	17.8
6	11570.00	44.8 AV	54.0	-9.2	1.06 H	125	27.0	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5607.00	59.7 PK	68.2	-8.5	3.79 V	106	51.1	8.6
2	*5785.00	104.6 PK			3.79 V	106	96.4	8.2
3	*5785.00	93.1 AV			3.79 V	106	84.9	8.2
4	#5994.12	60.9 PK	68.2	-7.3	3.79 V	106	52.1	8.8
5	11570.00	57.6 PK	74.0	-16.4	3.63 V	39	39.8	17.8
6	11570.00	45.2 AV	54.0	-8.8	3.63 V	39	27.4	17.8

Remarks:

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

RF Mode	802.11ax (HE20)	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5561.40	59.7 PK	68.2	-8.5	1.12 H	295	50.9	8.8
2	*5825.00	100.6 PK			1.12 H	295	92.4	8.2
3	*5825.00	89.0 AV			1.12 H	295	80.8	8.2
4	#5981.77	59.8 PK	68.2	-8.4	1.12 H	295	51.1	8.7
5	11650.00	58.3 PK	74.0	-15.7	1.07 H	271	40.6	17.7
6	11650.00	45.9 AV	54.0	-8.1	1.07 H	271	28.2	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5569.48	59.9 PK	68.2	-8.3	3.77 V	252	51.1	8.8
2	*5825.00	103.4 PK			3.77 V	252	95.2	8.2
3	*5825.00	91.9 AV			3.77 V	252	83.7	8.2
4	#6024.05	60.9 PK	68.2	-7.3	3.77 V	252	52.0	8.9
5	11650.00	58.7 PK	74.0	-15.3	3.61 V	185	41.0	17.7
6	11650.00	46.3 AV	54.0	-7.7	3.61 V	185	28.6	17.7

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 38：5190 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	61.0 PK	74.0	-13.0	3.09 H	135	52.7	8.3
2	5150.00	49.7 AV	54.0	-4.3	3.09 H	135	41.4	8.3
3	*5190.00	108.7 PK			3.09 H	135	100.3	8.4
4	*5190.00	97.1 AV			3.09 H	135	88.7	8.4
5	#10380.00	55.1 PK	68.2	-13.1	2.75 H	111	39.3	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	62.5 PK	74.0	-11.5	1.81 V	98	54.2	8.3
2	5150.00	50.5 AV	54.0	-3.5	1.81 V	98	42.2	8.3
3	*5190.00	111.2 PK			1.81 V	98	102.8	8.4
4	*5190.00	99.2 AV			1.81 V	98	90.8	8.4
5	#10380.00	55.5 PK	68.2	-12.7	1.65 V	29	39.7	15.8

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 46：5230 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5230.00	107.8 PK			3.09 H	129	99.2	8.6
2	*5230.00	96.7 AV			3.09 H	129	88.1	8.6
3	5350.00	60.4 PK	74.0	-13.6	3.09 H	129	51.3	9.1
4	5350.00	48.3 AV	54.0	-5.7	3.09 H	129	39.2	9.1
5	#10460.00	54.6 PK	68.2	-13.6	2.75 H	109	38.8	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5230.00	110.9 PK			1.81 V	104	102.3	8.6
2	*5230.00	99.2 AV			1.81 V	104	90.6	8.6
3	5350.00	61.1 PK	74.0	-12.9	1.81 V	104	52.0	9.1
4	5350.00	48.4 AV	54.0	-5.6	1.81 V	104	39.3	9.1
5	#10460.00	55.0 PK	68.2	-13.2	1.66 V	35	39.2	15.8

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 151：5755 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5564.25	59.7 PK	68.2	-8.5	2.25 H	186	50.9	8.8
2	*5755.00	98.5 PK			2.25 H	186	90.1	8.4
3	*5755.00	87.3 AV			2.25 H	186	78.9	8.4
4	#6002.20	59.7 PK	68.2	-8.5	2.25 H	186	50.9	8.8
5	11510.00	56.6 PK	74.0	-17.4	2.10 H	162	38.8	17.8
6	11510.00	44.2 AV	54.0	-9.8	2.10 H	162	26.4	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5559.50	59.8 PK	68.2	-8.4	2.64 V	65	51.0	8.8
2	*5755.00	101.4 PK			2.64 V	65	93.0	8.4
3	*5755.00	89.6 AV			2.64 V	65	81.2	8.4
4	#6021.68	59.7 PK	68.2	-8.5	2.64 V	65	50.8	8.9
5	11510.00	57.0 PK	74.0	-17.0	2.49 V	2	39.2	17.8
6	11510.00	44.6 AV	54.0	-9.4	2.49 V	2	26.8	17.8

Remarks:

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

RF Mode	802.11ax (HE40)	**Channel**	CH 159：5795 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5551.90	60.1 PK	68.2	-8.1	2.26 H	337	51.2	8.9
2	*5795.00	97.9 PK			2.26 H	337	89.7	8.2
3	*5795.00	86.1 AV			2.26 H	337	77.9	8.2
4	#6010.27	60.1 PK	68.2	-8.1	2.26 H	337	51.3	8.8
5	11590.00	57.3 PK	74.0	-16.7	2.21 H	313	39.5	17.8
6	11590.00	44.9 AV	54.0	-9.1	2.21 H	313	27.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5577.55	60.4 PK	68.2	-7.8	2.64 V	294	51.6	8.8
2	*5795.00	100.5 PK			2.64 V	294	92.3	8.2
3	*5795.00	88.7 AV			2.64 V	294	80.5	8.2
4	#5992.70	60.1 PK	68.2	-8.1	2.64 V	294	51.3	8.8
5	11590.00	57.7 PK	74.0	-16.3	2.50 V	133	39.9	17.8
6	11590.00	45.3 AV	54.0	-8.7	2.50 V	133	27.5	17.8

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 42：5210 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	62.3 PK	74.0	-11.7	3.25 H	146	54.0	8.3
2	5150.00	51.3 AV	54.0	-2.7	3.25 H	146	43.0	8.3
3	*5210.00	106.4 PK			3.25 H	146	97.9	8.5
4	*5210.00	94.4 AV			3.25 H	146	85.9	8.5
5	5350.00	59.6 PK	74.0	-14.4	3.25 H	146	50.5	9.1
6	5350.00	47.6 AV	54.0	-6.4	3.25 H	146	38.5	9.1
7	#10420.00	54.7 PK	68.2	-13.5	2.58 H	110	38.8	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	63.0 PK	74.0	-11.0	1.98 V	103	54.7	8.3
2	**5150.00**	**51.5 AV**	**54.0**	**-2.5**	**1.98 V**	**103**	**43.2**	**8.3**
3	*5210.00	109.2 PK			1.98 V	103	100.7	8.5
4	*5210.00	97.1 AV			1.98 V	103	88.6	8.5
5	5350.00	60.1 PK	74.0	-13.9	1.98 V	103	51.0	9.1
6	5350.00	48.5 AV	54.0	-5.5	1.98 V	103	39.4	9.1
7	#10420.00	55.1 PK	68.2	-13.1	1.83 V	40	39.2	15.9

Remarks:

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

RF Mode	802.11ax (HE80)	**Channel**	CH 155：5775 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5573.75	59.5 PK	68.2	-8.7	1.86 H	282	50.7	8.8
2	*5775.00	95.3 PK			1.86 H	282	87.1	8.2
3	*5775.00	83.3 AV			1.86 H	282	75.1	8.2
4	#6015.98	60.4 PK	68.2	-7.8	1.86 H	282	51.5	8.9
5	11550.00	57.1 PK	74.0	-16.9	1.81 H	258	39.3	17.8
6	11550.00	44.7 AV	54.0	-9.3	1.81 H	258	26.9	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5554.27	60.1 PK	68.2	-8.1	3.03 V	293	51.2	8.9
2	*5775.00	97.8 PK			3.03 V	293	89.6	8.2
3	*5775.00	86.5 AV			3.03 V	293	78.3	8.2
4	#6008.85	60.4 PK	68.2	-7.8	3.03 V	293	51.6	8.8
5	11550.00	57.5 PK	74.0	-16.5	2.88 V	230	39.7	17.8
6	11550.00	45.1 AV	54.0	-8.9	2.88 V	230	27.3	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	68.3 PK	74.0	-5.7	3.05 H	150	60.0	8.3
2	5150.00	47.5 AV	54.0	-6.5	3.05 H	150	39.2	8.3
3	*5180.00	114.7 PK			3.05 H	150	106.3	8.4
4	*5180.00	104.1 AV			3.05 H	150	95.7	8.4
5	#10360.00	54.8 PK	68.2	-13.4	2.84 H	136	39.2	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	69.6 PK	74.0	-4.4	1.78 V	108	61.3	8.3
2	5150.00	47.7 AV	54.0	-6.3	1.78 V	108	39.4	8.3
3	*5180.00	117.9 PK			1.78 V	108	109.5	8.4
4	*5180.00	107.3 AV			1.78 V	108	98.9	8.4
5	#10360.00	55.3 PK	68.2	-12.9	1.96 V	124	39.7	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	114.2 PK			3.02 H	146	105.8	8.4
2	*5200.00	103.6 AV			3.02 H	146	95.2	8.4
3	#10400.00	54.9 PK	68.2	-13.3	2.81 H	132	39.0	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	117.4 PK			1.75 V	104	109.0	8.4
2	*5200.00	106.8 AV			1.75 V	104	98.4	8.4
3	#10400.00	55.4 PK	68.2	-12.8	1.93 V	120	39.5	15.9

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	115.4 PK			3.04 H	325	106.6	8.8
2	*5240.00	104.1 AV			3.04 H	325	95.3	8.8
3	5350.00	61.3 PK	74.0	-12.7	3.04 H	325	52.2	9.1
4	5350.00	48.0 AV	54.0	-6.0	3.04 H	325	38.9	9.1
5	#10480.00	55.3 PK	68.2	-12.9	2.83 H	311	39.7	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	118.5 PK			1.77 V	283	109.7	8.8
2	*5240.00	107.2 AV			1.77 V	283	98.4	8.8
3	5350.00	61.6 PK	74.0	-12.4	1.77 V	283	52.5	9.1
4	5350.00	48.1 AV	54.0	-5.9	1.77 V	283	39.0	9.1
5	#10480.00	55.8 PK	68.2	-12.4	1.95 V	299	40.2	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5572.80	60.5 PK	68.2	-7.7	2.46 H	321	51.7	8.8
2	*5745.00	108.6 PK			2.46 H	321	100.3	8.3
3	*5745.00	97.4 AV			2.46 H	321	89.1	8.3
4	#6013.60	61.9 PK	68.2	-6.3	2.46 H	321	53.1	8.8
5	11490.00	56.5 PK	74.0	-17.5	2.25 H	307	38.7	17.8
6	11490.00	43.3 AV	54.0	-10.7	2.25 H	307	25.5	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5578.02	60.9 PK	68.2	-7.3	1.19 V	279	52.1	8.8
2	*5745.00	111.7 PK			1.19 V	279	103.4	8.3
3	*5745.00	100.6 AV			1.19 V	279	92.3	8.3
4	#6007.90	61.8 PK	68.2	-6.4	1.19 V	279	53.0	8.8
5	11490.00	57.0 PK	74.0	-17.0	1.37 V	295	39.2	17.8
6	11490.00	43.8 AV	54.0	-10.2	1.37 V	295	26.0	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5636.45	61.0 PK	68.2	-7.2	1.00 H	153	52.6	8.4
2	*5785.00	109.2 PK			1.00 H	153	101.0	8.2
3	*5785.00	98.2 AV			1.00 H	153	90.0	8.2
4	#5990.32	62.1 PK	68.2	-6.1	1.00 H	153	53.3	8.8
5	11570.00	57.0 PK	74.0	-17.0	1.15 H	139	39.2	17.8
6	11570.00	43.8 AV	54.0	-10.2	1.15 H	139	26.0	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5627.43	60.6 PK	68.2	-7.6	3.70 V	111	52.1	8.5
2	*5785.00	112.1 PK			3.70 V	111	103.9	8.2
3	*5785.00	100.9 AV			3.70 V	111	92.7	8.2
4	#6021.20	61.5 PK	68.2	-6.7	3.70 V	111	52.6	8.9
5	11570.00	57.5 PK	74.0	-16.5	3.88 V	127	39.7	17.8
6	11570.00	44.3 AV	54.0	-9.7	3.88 V	127	26.5	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 26-tone RU	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5581.35	59.9 PK	68.2	-8.3	3.96 H	159	51.1	8.8
2	*5825.00	108.8 PK			3.96 H	159	100.6	8.2
3	*5825.00	97.2 AV			3.96 H	159	89.0	8.2
4	#5967.05	61.4 PK	68.2	-6.8	3.96 H	159	52.8	8.6
5	11650.00	57.0 PK	74.0	-17.0	3.75 H	145	39.3	17.7
6	11650.00	43.8 AV	54.0	-10.2	3.75 H	145	26.1	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5558.55	60.3 PK	68.2	-7.9	1.51 V	265	51.5	8.8
2	*5825.00	112.0 PK			1.51 V	265	103.8	8.2
3	*5825.00	100.2 AV			1.51 V	265	92.0	8.2
4	#6012.65	61.5 PK	68.2	-6.7	1.51 V	265	52.7	8.8
5	11650.00	57.5 PK	74.0	-16.5	1.69 V	281	39.8	17.7
6	11650.00	44.3 AV	54.0	-9.7	1.69 V	281	26.6	17.7

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	65.4 PK	74.0	-8.6	3.03 H	136	57.1	8.3
2	5150.00	47.7 AV	54.0	-6.3	3.03 H	136	39.4	8.3
3	*5180.00	113.7 PK			3.03 H	136	105.3	8.4
4	*5180.00	101.2 AV			3.03 H	136	92.8	8.4
5	#10360.00	55.7 PK	68.2	-12.5	2.82 H	122	40.1	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	69.4 PK	74.0	-4.6	1.76 V	94	61.1	8.3
2	5150.00	47.8 AV	54.0	-6.2	1.76 V	94	39.5	8.3
3	*5180.00	116.7 PK			1.76 V	94	108.3	8.4
4	*5180.00	104.4 AV			1.76 V	94	96.0	8.4
5	#10360.00	56.2 PK	68.2	-12.0	1.94 V	110	40.6	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	113.4 PK			3.06 H	138	105.0	8.4
2	*5200.00	100.9 AV			3.06 H	138	92.5	8.4
3	#10400.00	56.2 PK	68.2	-12.0	2.85 H	124	40.3	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	116.4 PK			1.79 V	96	108.0	8.4
2	*5200.00	104.1 AV			1.79 V	96	95.7	8.4
3	#10400.00	56.7 PK	68.2	-11.5	1.91 V	112	40.8	15.9

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	113.8 PK			2.91 H	323	105.0	8.8
2	*5240.00	101.9 AV			2.91 H	323	93.1	8.8
3	5350.00	61.2 PK	74.0	-12.8	2.91 H	323	52.1	9.1
4	5350.00	47.4 AV	54.0	-6.6	2.91 H	323	38.3	9.1
5	#10480.00	56.1 PK	68.2	-12.1	2.70 H	309	40.5	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	117.0 PK			1.92 V	281	108.2	8.8
2	*5240.00	104.6 AV			1.92 V	281	95.8	8.8
3	5350.00	62.1 PK	74.0	-11.9	1.92 V	281	53.0	9.1
4	5350.00	47.9 AV	54.0	-6.1	1.92 V	281	38.8	9.1
5	#10480.00	56.6 PK	68.2	-11.6	2.04 V	297	41.0	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5641.68	60.5 PK	68.2	-7.7	2.04 H	148	52.1	8.4
2	*5745.00	107.6 PK			2.07 H	148	99.3	8.3
3	*5745.00	94.7 AV			2.07 H	148	86.4	8.3
4	#5947.57	61.2 PK	68.2	-7.0	2.04 H	148	52.6	8.6
5	11490.00	57.5 PK	74.0	-16.5	1.86 H	134	39.7	17.8
6	11490.00	44.3 AV	54.0	-9.7	1.86 H	134	26.5	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5634.07	60.4 PK	68.2	-7.8	3.43 V	276	52.0	8.4
2	*5745.00	110.7 PK			3.43 V	276	102.4	8.3
3	*5745.00	97.6 AV			3.43 V	276	89.3	8.3
4	#5952.80	61.9 PK	68.2	-6.3	3.43 V	276	53.3	8.6
5	11490.00	58.0 PK	74.0	-16.0	3.61 V	292	40.2	17.8
6	11490.00	44.8 AV	54.0	-9.2	3.61 V	292	27.0	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5598.45	59.9 PK	68.2	-8.3	2.03 H	5	51.3	8.6
2	*5785.00	107.1 PK			2.03 H	5	98.9	8.2
3	*5785.00	95.2 AV			2.03 H	5	87.0	8.2
4	#5998.87	61.2 PK	68.2	-7.0	2.03 H	5	52.4	8.8
5	11570.00	57.1 PK	74.0	-16.9	1.82 H	299	39.3	17.8
6	11570.00	43.9 AV	54.0	-10.1	1.82 H	299	26.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5620.77	60.6 PK	68.2	-7.6	3.44 V	111	52.1	8.5
2	*5785.00	110.2 PK			3.44 V	111	102.0	8.2
3	*5785.00	98.6 AV			3.44 V	111	90.4	8.2
4	#6025.00	61.1 PK	68.2	-7.1	3.44 V	111	52.2	8.9
5	11570.00	57.6 PK	74.0	-16.4	3.62 V	127	39.8	17.8
6	11570.00	44.4 AV	54.0	-9.6	3.62 V	127	26.6	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 52-tone RU	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5569.00	60.3 PK	68.2	-7.9	2.01 H	169	51.5	8.8
2	*5825.00	107.1 PK			2.01 H	169	98.9	8.2
3	*5825.00	94.3 AV			2.01 H	169	86.1	8.2
4	#6006.95	61.2 PK	68.2	-7.0	2.01 H	169	52.4	8.8
5	11650.00	57.2 PK	74.0	-16.8	1.80 H	135	39.5	17.7
6	11650.00	44.0 AV	54.0	-10.0	1.80 H	135	26.3	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5637.87	61.6 PK	68.2	-6.6	3.46 V	275	53.2	8.4
2	*5825.00	110.2 PK			3.46 V	275	102.0	8.2
3	*5825.00	97.5 AV			3.46 V	275	89.3	8.2
4	#5996.02	61.7 PK	68.2	-6.5	3.46 V	275	52.9	8.8
5	11650.00	57.7 PK	74.0	-16.3	3.64 V	291	40.0	17.7
6	11650.00	44.5 AV	54.0	-9.5	3.64 V	291	26.8	17.7

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 36：5180 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	66.4 PK	74.0	-7.6	2.90 H	136	58.1	8.3
2	5150.00	47.4 AV	54.0	-6.6	2.90 H	136	39.1	8.3
3	*5180.00	111.8 PK			2.90 H	136	103.4	8.4
4	*5180.00	99.4 AV			2.90 H	136	91.0	8.4
5	#10360.00	55.0 PK	68.2	-13.2	2.69 H	121	39.4	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5150.00	67.2 PK	74.0	-6.8	1.93 V	94	58.9	8.3
2	5150.00	47.5 AV	54.0	-6.5	1.93 V	94	39.2	8.3
3	*5180.00	113.5 PK			1.93 V	94	105.1	8.4
4	*5180.00	101.3 AV			1.93 V	94	92.9	8.4
5	#10360.00	55.5 PK	68.2	-12.7	2.05 V	110	39.9	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 40：5200 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	109.9 PK			2.94 H	160	101.5	8.4
2	*5200.00	97.7 AV			2.94 H	160	89.3	8.4
3	#10400.00	55.7 PK	68.2	-12.5	2.73 H	126	39.8	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5200.00	113.1 PK			1.89 V	98	104.7	8.4
2	*5200.00	100.9 AV			1.89 V	98	92.5	8.4
3	#10400.00	56.2 PK	68.2	-12.0	2.09 V	114	40.3	15.9

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 48：5240 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	111.8 PK			2.91 H	145	103.0	8.8
2	*5240.00	99.7 AV			2.91 H	145	90.9	8.8
3	5350.00	61.1 PK	74.0	-12.9	2.91 H	145	52.0	9.1
4	5350.00	48.0 AV	54.0	-6.0	2.91 H	145	38.9	9.1
5	#10480.00	55.9 PK	68.2	-12.3	2.70 H	131	40.3	15.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	*5240.00	115.0 PK			1.92 V	103	106.2	8.8
2	*5240.00	103.0 AV			1.92 V	103	94.2	8.8
3	5350.00	61.2 PK	74.0	-12.8	1.92 V	103	52.1	9.1
4	5350.00	48.2 AV	54.0	-5.8	1.92 V	103	39.1	9.1
5	#10480.00	56.4 PK	68.2	-11.8	2.06 V	119	40.8	15.6

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 149：5745 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5619.35	60.0 PK	68.2	-8.2	1.98 H	2	51.5	8.5
2	*5745.00	105.0 PK			1.98 H	2	96.7	8.3
3	*5745.00	92.4 AV			1.98 H	2	84.1	8.3
4	#6004.10	61.6 PK	68.2	-6.6	1.98 H	2	52.8	8.8
5	11490.00	57.7 PK	74.0	-16.3	1.77 H	302	39.9	17.8
6	11490.00	44.7 AV	54.0	-9.3	1.77 H	302	26.9	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5632.65	60.1 PK	68.2	-8.1	3.49 V	108	51.6	8.5
2	*5745.00	108.1 PK			3.49 V	108	99.8	8.3
3	*5745.00	96.4 AV			3.49 V	108	88.1	8.3
4	#5986.52	60.9 PK	68.2	-7.3	3.49 V	108	52.1	8.8
5	11490.00	58.2 PK	74.0	-15.8	3.61 V	124	40.4	17.8
6	11490.00	45.2 AV	54.0	-8.8	3.61 V	124	27.4	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 157：5785 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5623.62	60.1 PK	68.2	-8.1	1.94 H	152	51.6	8.5
2	*5785.00	104.4 PK			1.94 H	152	96.2	8.2
3	*5785.00	91.9 AV			1.94 H	152	83.7	8.2
4	#6015.98	61.1 PK	68.2	-7.1	1.94 H	152	52.2	8.9
5	11570.00	58.3 PK	74.0	-15.7	1.73 H	138	40.5	17.8
6	11570.00	45.4 AV	54.0	-8.6	1.73 H	138	27.6	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5599.87	60.3 PK	68.2	-7.9	3.53 V	272	51.7	8.6
2	*5785.00	107.4 PK			3.53 V	272	99.2	8.2
3	*5785.00	94.5 AV			3.53 V	272	86.3	8.2
4	#5933.32	60.9 PK	68.2	-7.3	3.53 V	272	52.3	8.6
5	11570.00	58.8 PK	74.0	-15.2	3.57 V	288	41.0	17.8
6	11570.00	45.9 AV	54.0	-8.1	3.57 V	288	28.1	17.8

Remarks:

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

RF Mode	802.11ax (HE20) 106-tone RU	**Channel**	CH 165：5825 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	14°C, 58% RH
Tested By	Jed Wu		

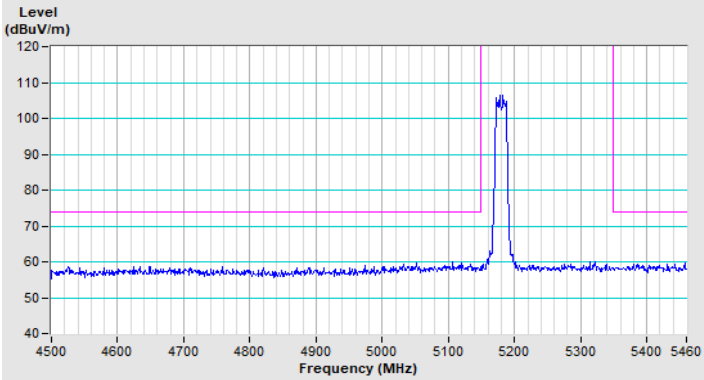
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5581.35	59.8 PK	68.2	-8.4	1.93 H	145	51.0	8.8
2	*5825.00	105.8 PK			1.93 H	145	97.6	8.2
3	*5825.00	93.6 AV			1.93 H	145	85.4	8.2
4	#6005.52	61.4 PK	68.2	-6.8	1.93 H	145	52.6	8.8
5	11650.00	57.7 PK	74.0	-16.3	1.72 H	0	40.0	17.7
6	11650.00	44.8 AV	54.0	-9.2	1.72 H	0	27.1	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	#5608.43	60.4 PK	68.2	-7.8	3.54 V	251	51.8	8.6
2	*5825.00	108.9 PK			3.54 V	251	100.7	8.2
3	*5825.00	96.2 AV			3.54 V	251	88.0	8.2
4	#6002.20	61.2 PK	68.2	-7.0	3.54 V	251	52.4	8.8
5	11650.00	58.2 PK	74.0	-15.8	3.56 V	267	40.5	17.7
6	11650.00	45.3 AV	54.0	-8.7	3.56 V	267	27.6	17.7

Remarks:

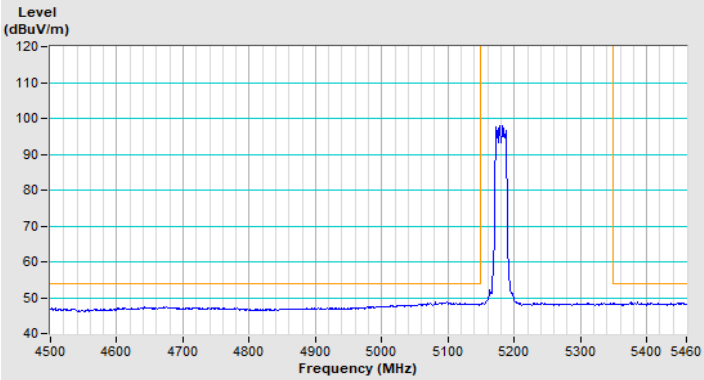
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge_Mode A

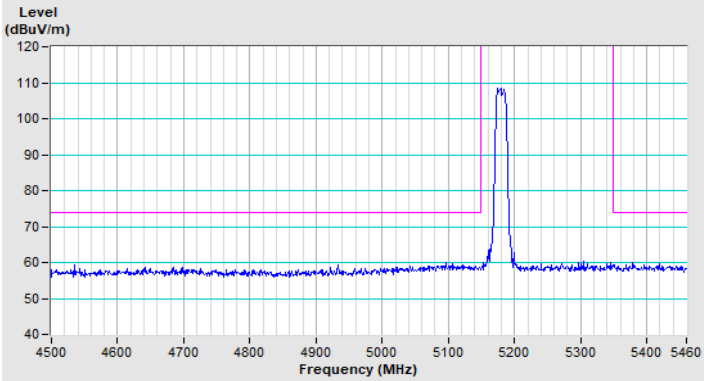
802.11a Channel 36



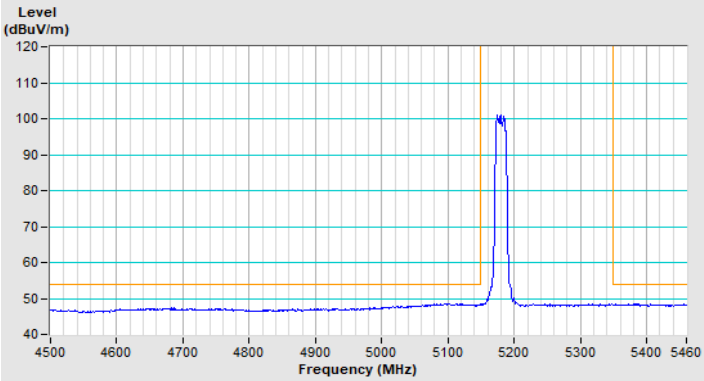
Horizontal (Peak)



Horizontal (Average)

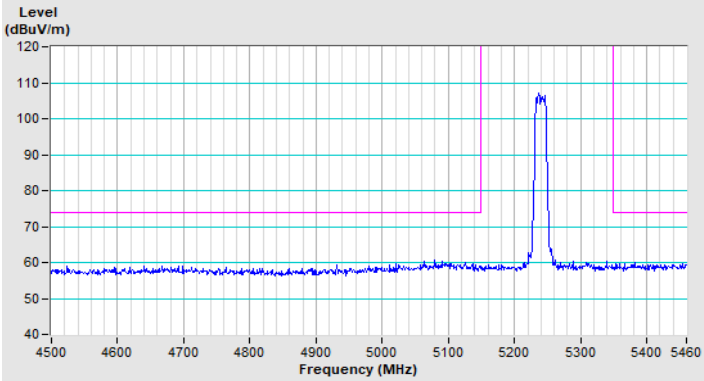


Vertical (Peak)

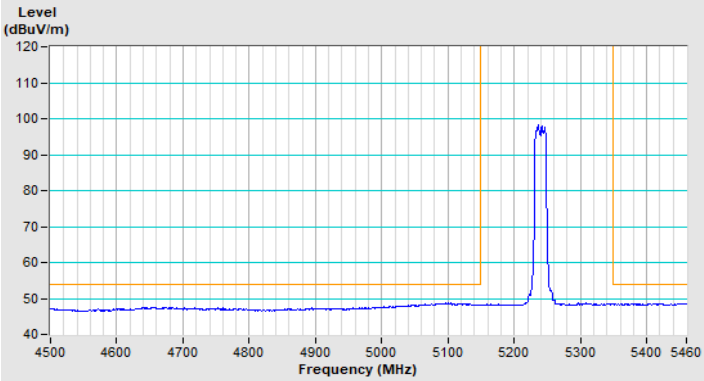


Vertical (Average)

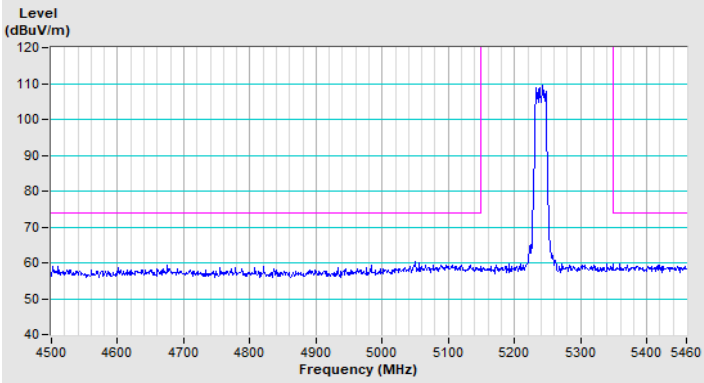
802.11a Channel 48



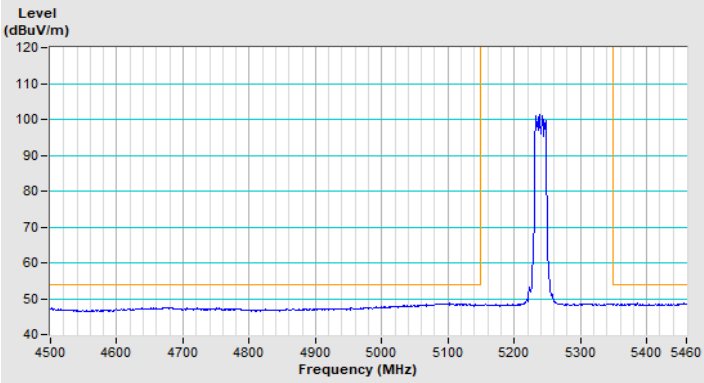
Horizontal (Peak)



Horizontal (Average)

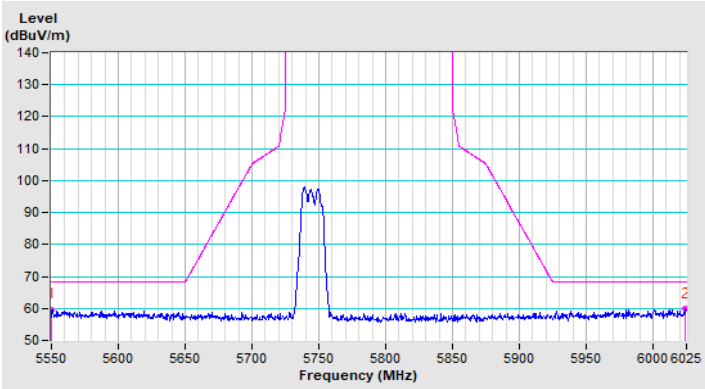


Vertical (Peak)

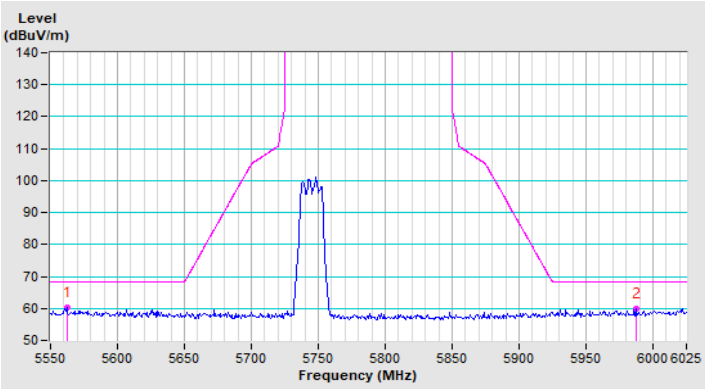


Vertical (Average)

802.11a Channel 149

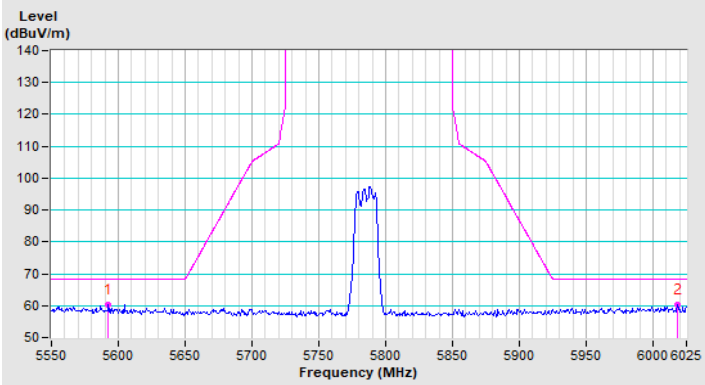


Horizontal (Peak)

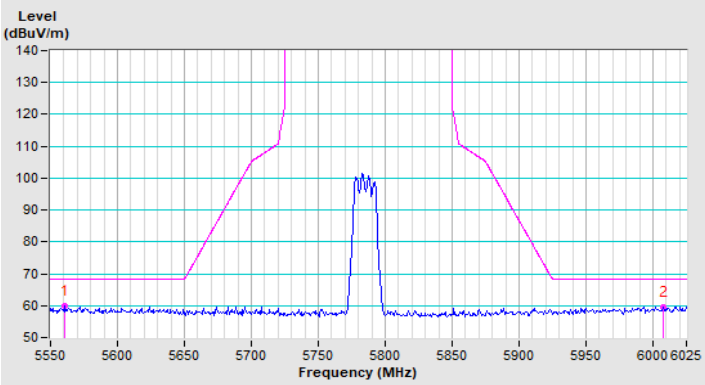


Vertical (Peak)

802.11a Channel 157

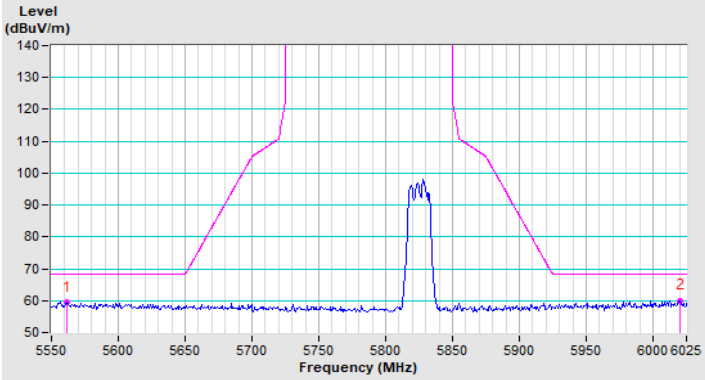


Horizontal (Peak)

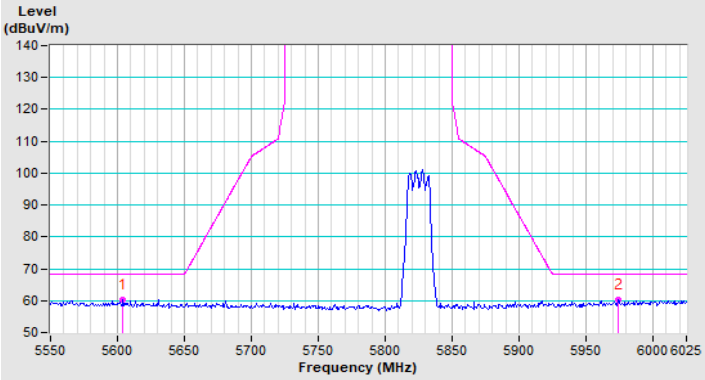


Vertical (Peak)

802.11a Channel 165

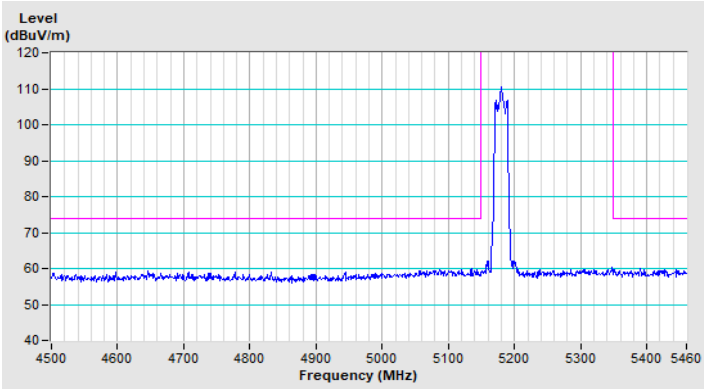


Horizontal (Peak)

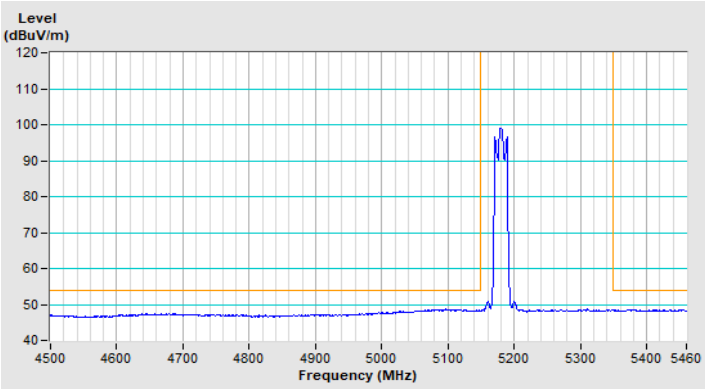


Vertical (Peak)

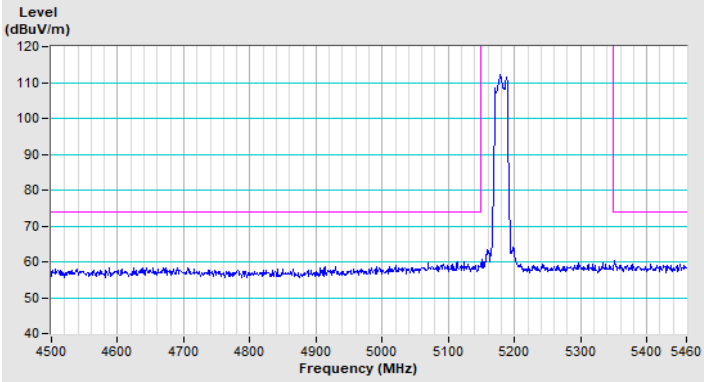
802.11ax (HE20) Channel 36



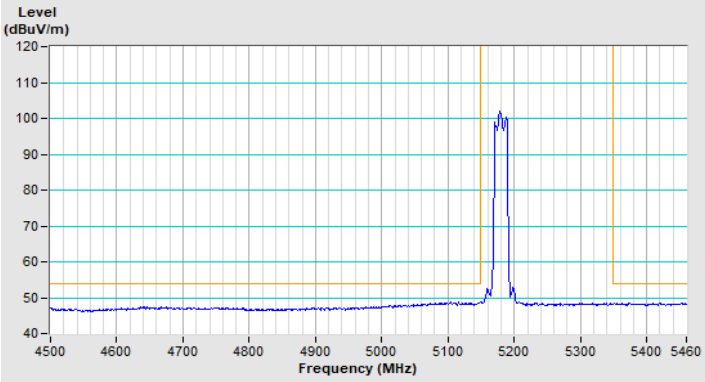
Horizontal (Peak)



Horizontal (Average)

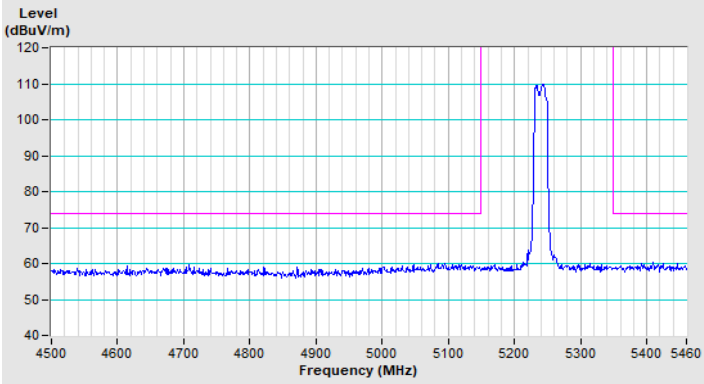


Vertical (Peak)

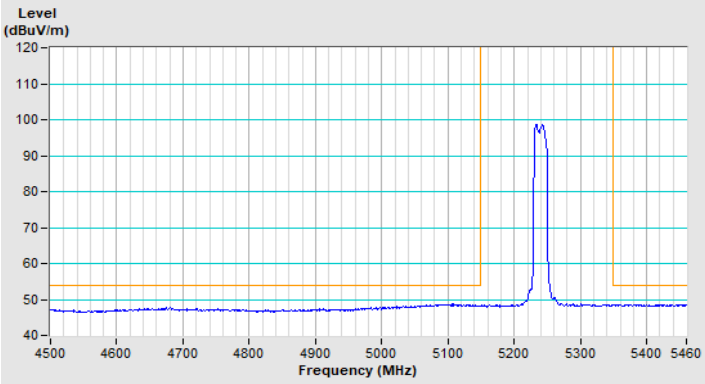


Vertical (Average)

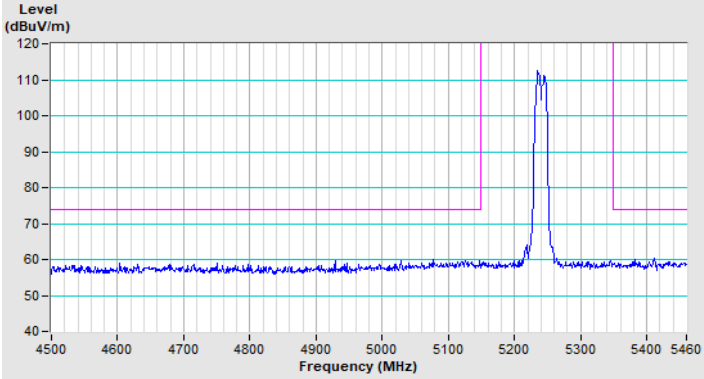
802.11ax (HE20) Channel 48



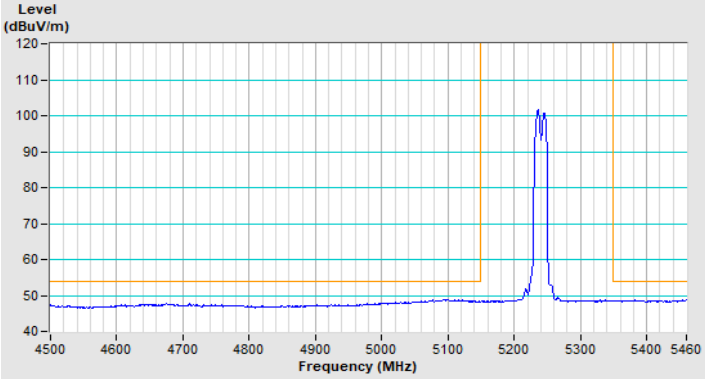
Horizontal (Peak)



Horizontal (Average)

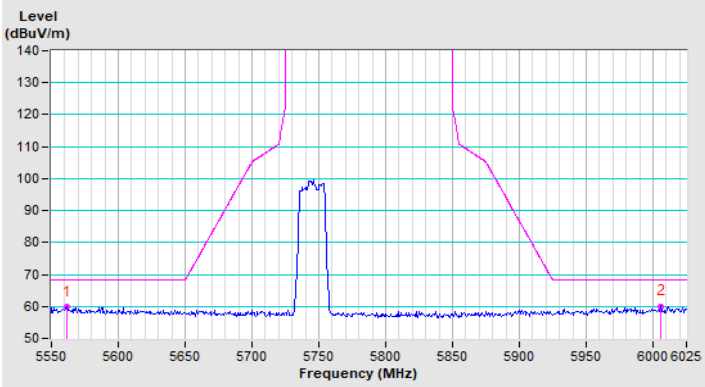


Vertical (Peak)

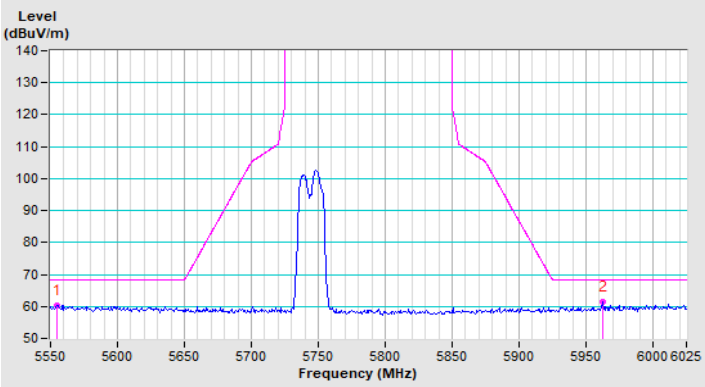


Vertical (Average)

802.11ax (HE20) Channel 149

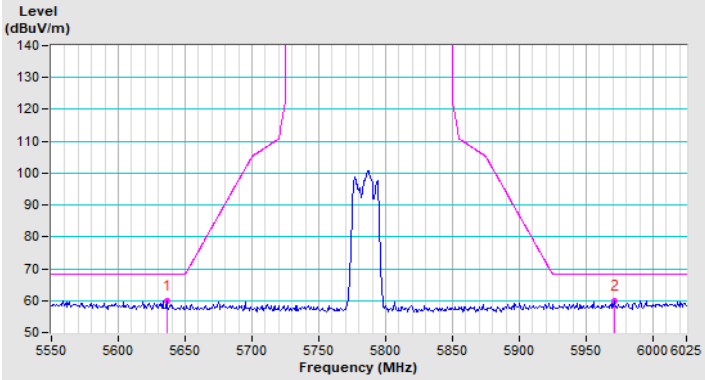


Horizontal (Peak)

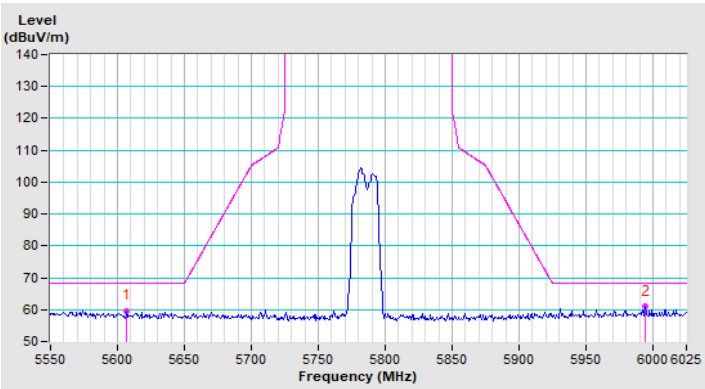


Vertical (Peak)

802.11ax (HE20) Channel 157

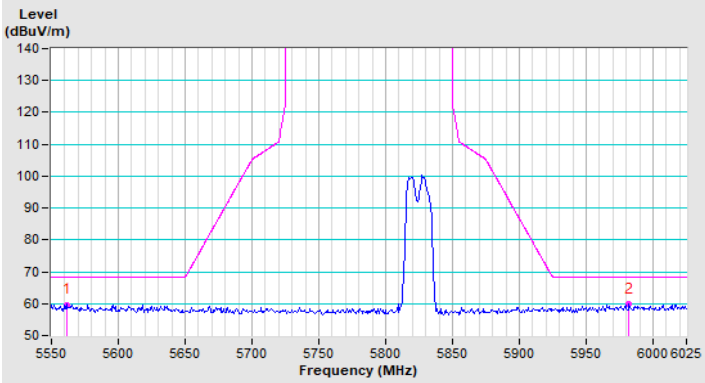


Horizontal (Peak)

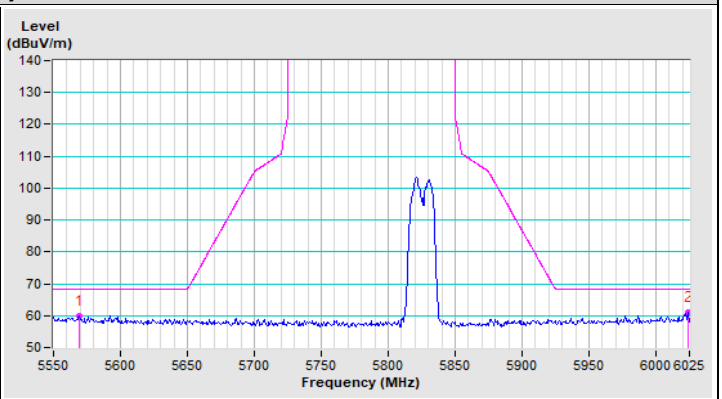


Vertical (Peak)

802.11ax (HE20) Channel 165

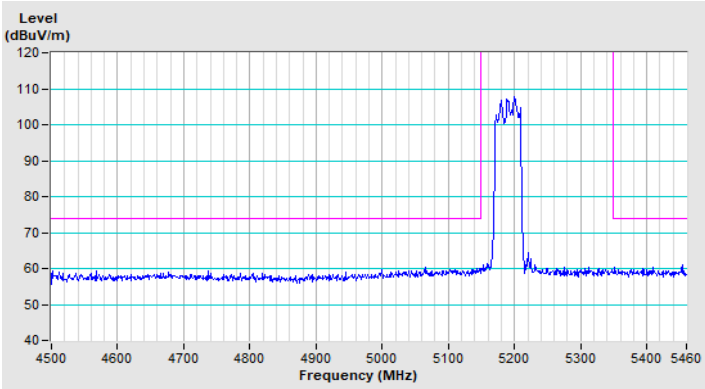


Horizontal (Peak)

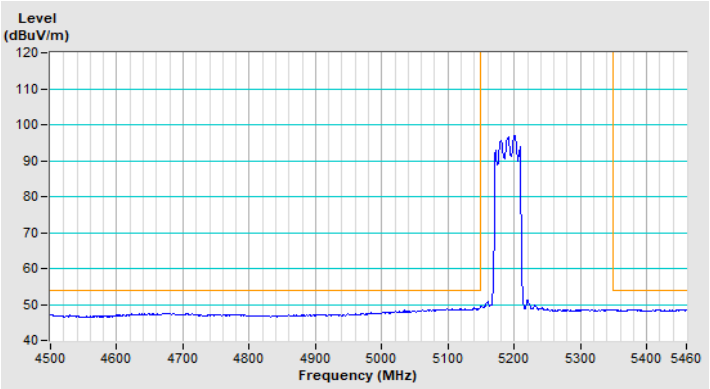


Vertical (Peak)

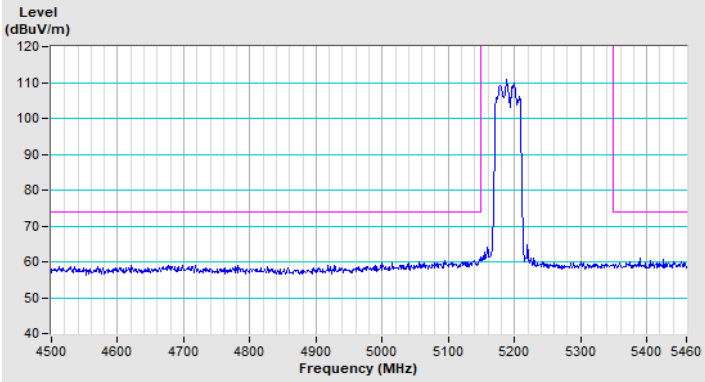
802.11ax (HE40) Channel 38



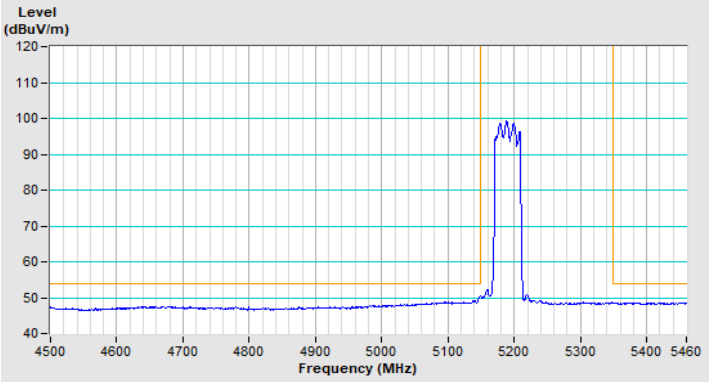
Horizontal (Peak)



Horizontal (Average)

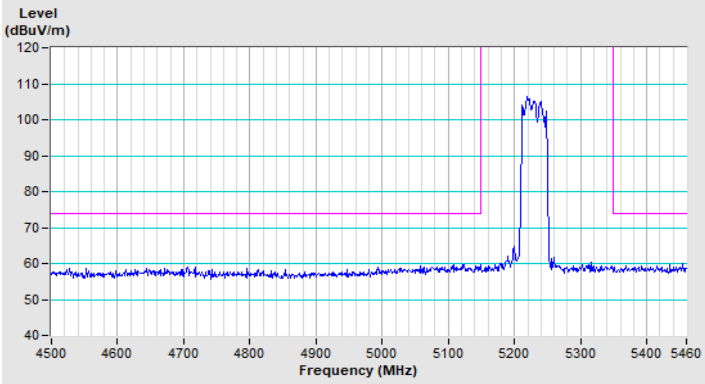


Vertical (Peak)

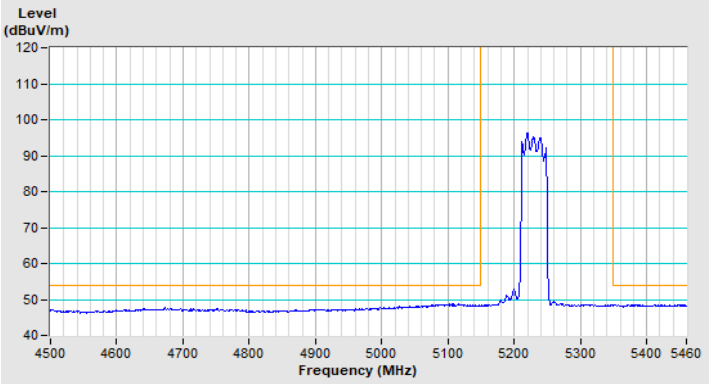


Vertical (Average)

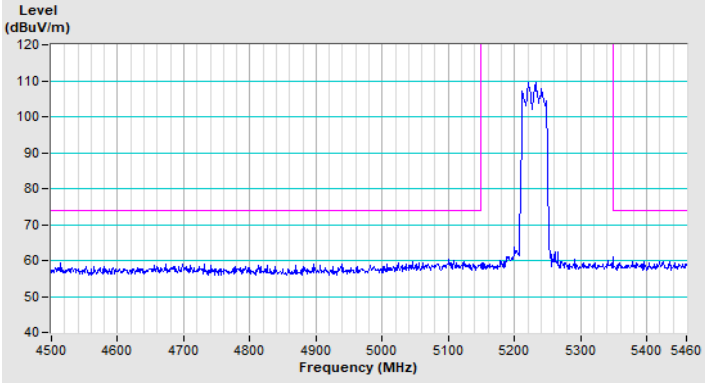
802.11ax (HE40) Channel 46



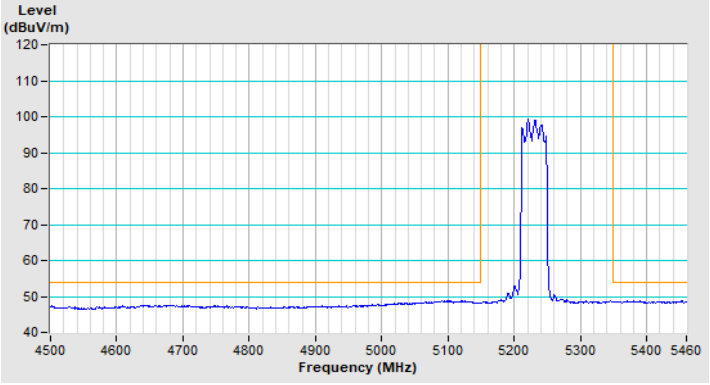
Horizontal (Peak)



Horizontal (Average)

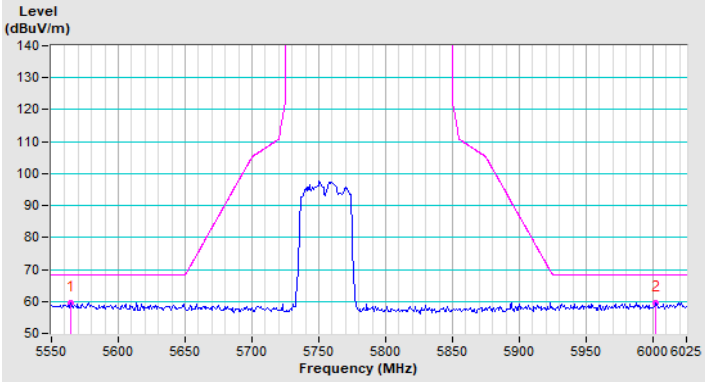


Vertical (Peak)

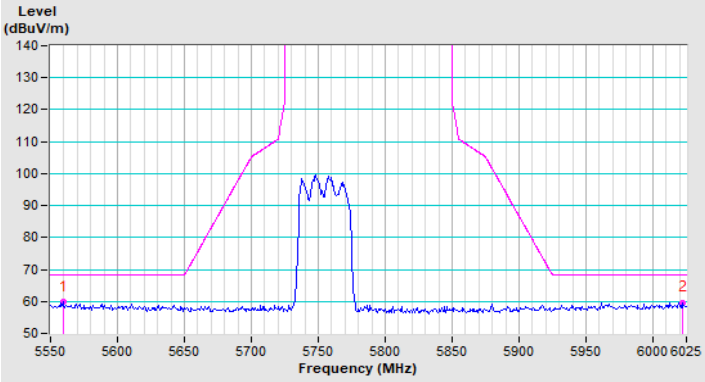


Vertical (Average)

802.11ax (HE40) Channel 151

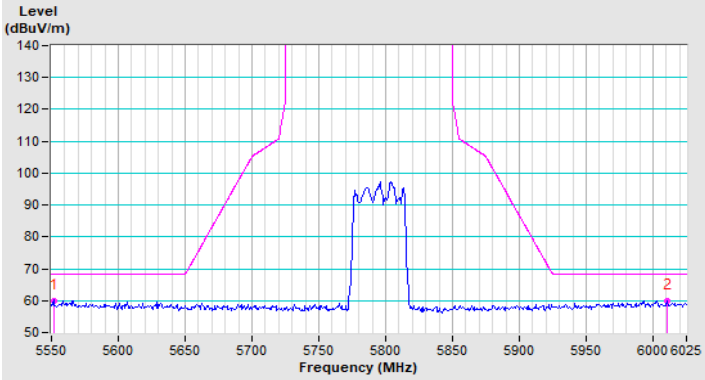


Horizontal (Peak)

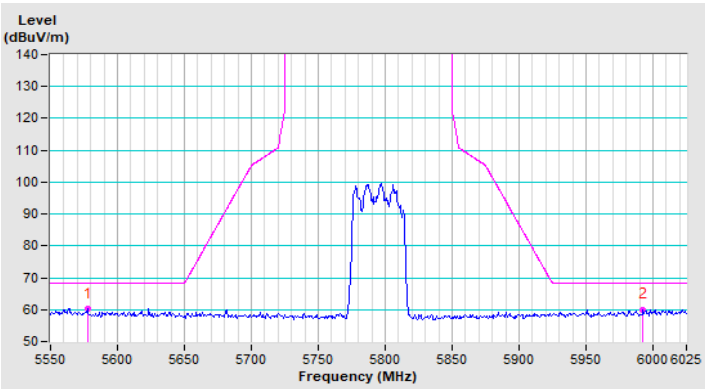


Vertical (Peak)

802.11ax (HE40) Channel 159

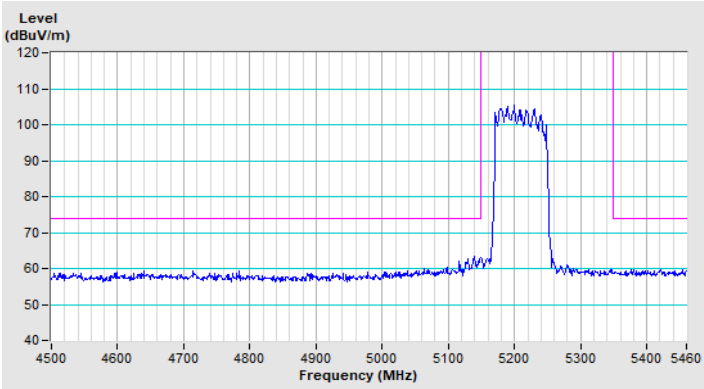


Horizontal (Peak)

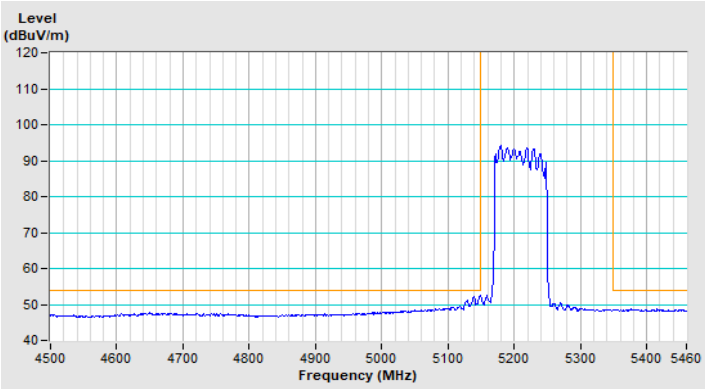


Vertical (Peak)

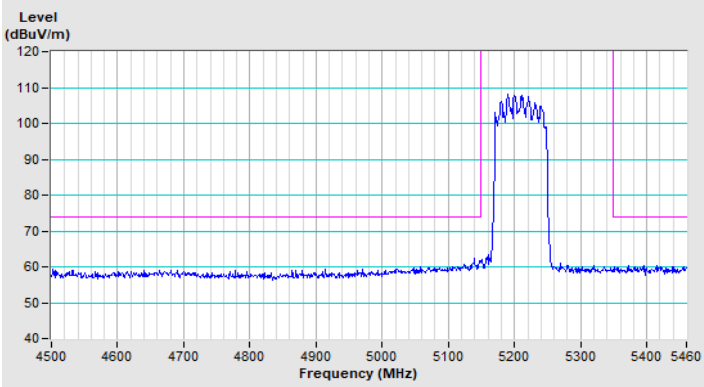
802.11ax (HE80) Channel 42



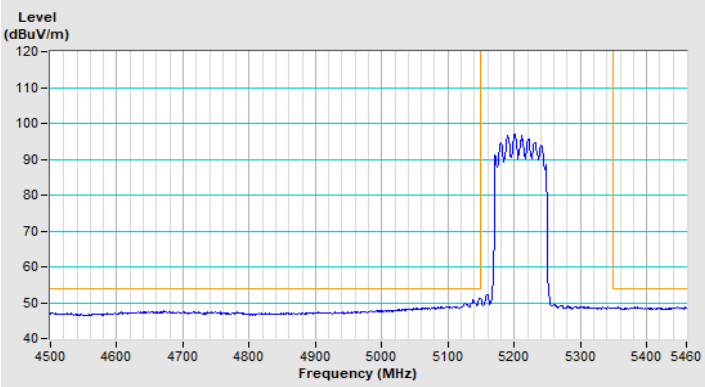
Horizontal (Peak)



Horizontal (Average)

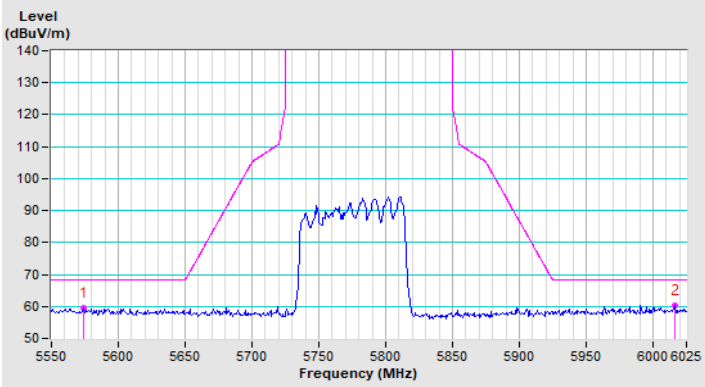


Vertical (Peak)

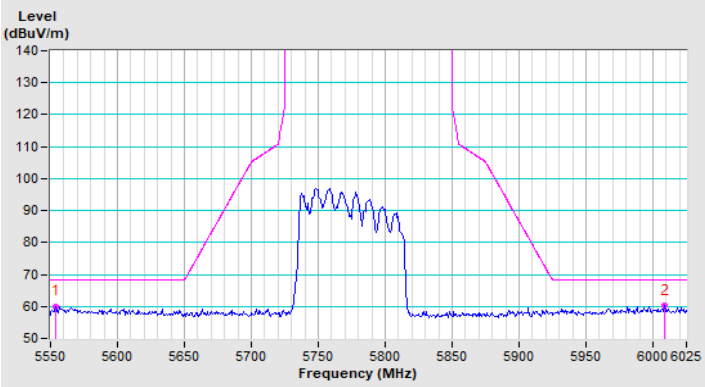


Vertical (Average)

802.11ax (HE80) Channel 155

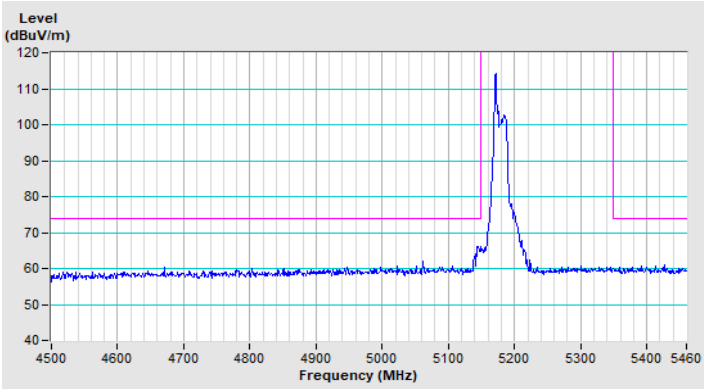


Horizontal (Peak)

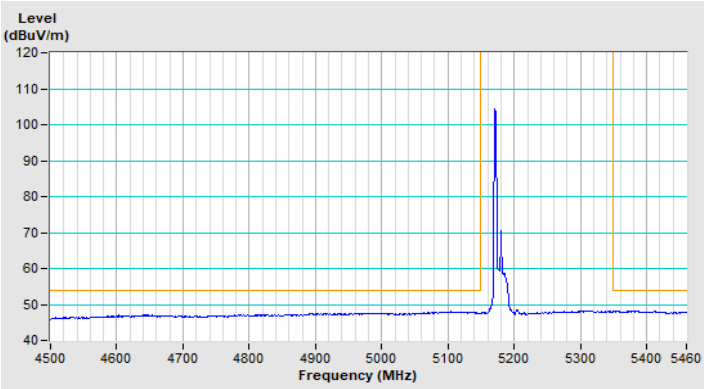


Vertical (Peak)

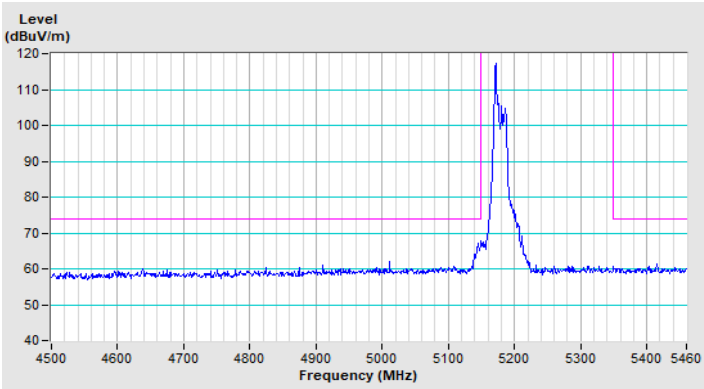
802.11ax (HE20) 26-tone RU Channel 36



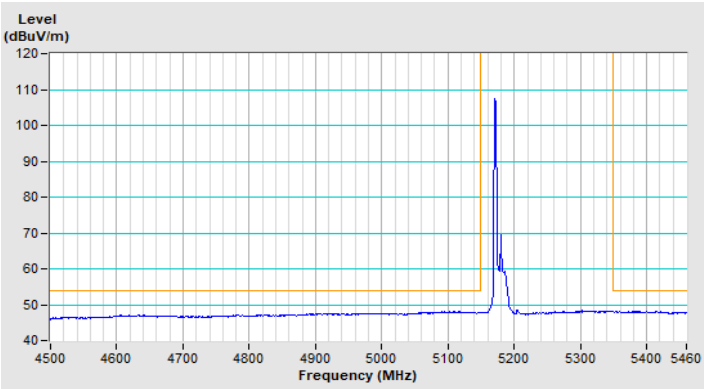
Horizontal (Peak)



Horizontal (Average)

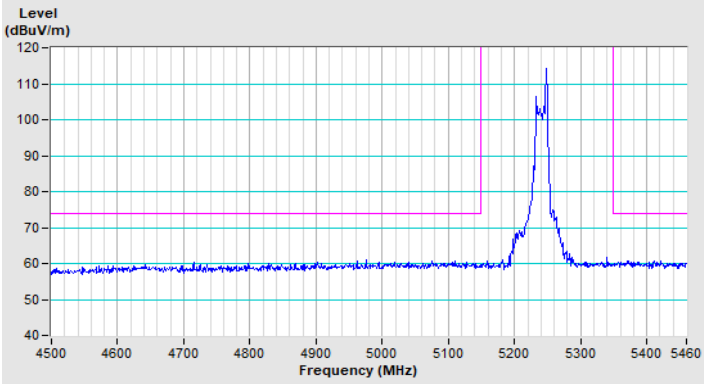


Vertical (Peak)

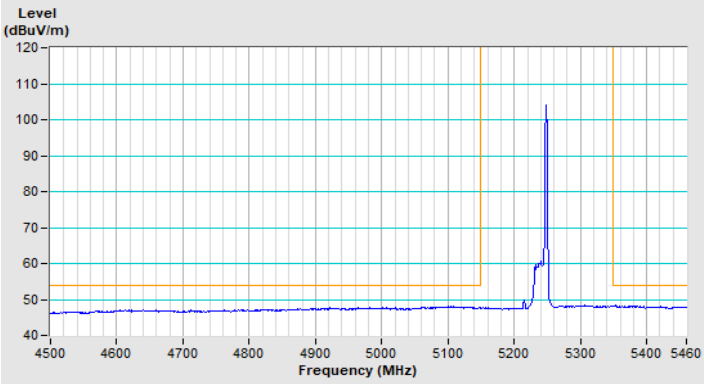


Vertical (Average)

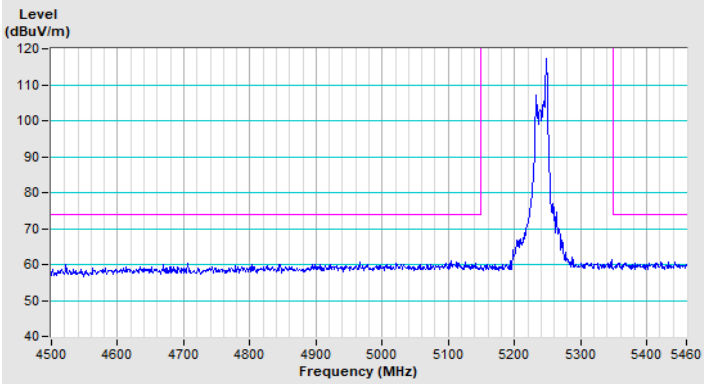
802.11ax (HE20) 26-tone RU Channel 48



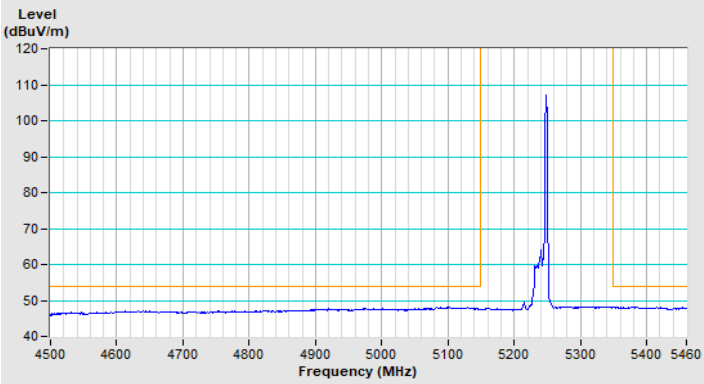
Horizontal (Peak)



Horizontal (Average)

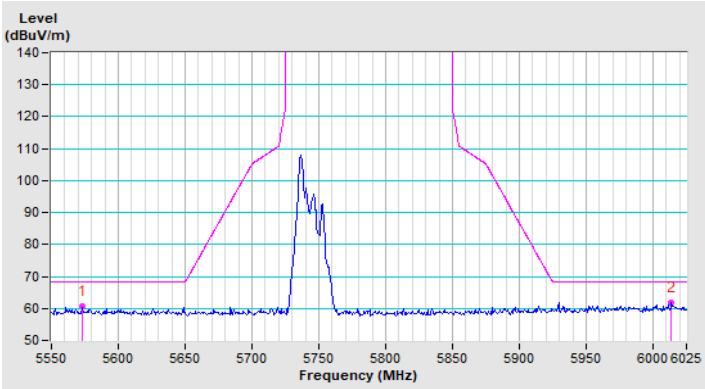


Vertical (Peak)

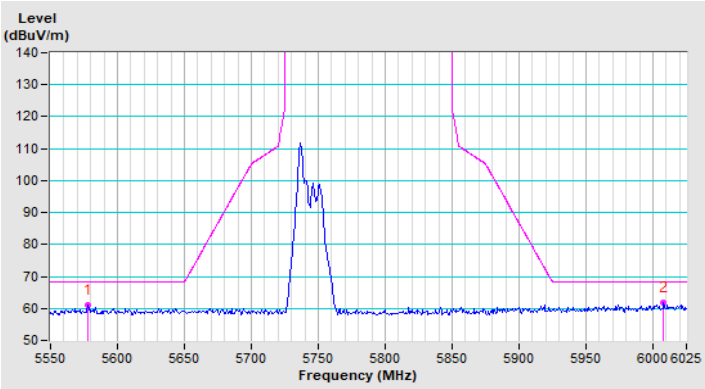


Vertical (Average)

802.11ax (HE20) 26-tone RU Channel 149

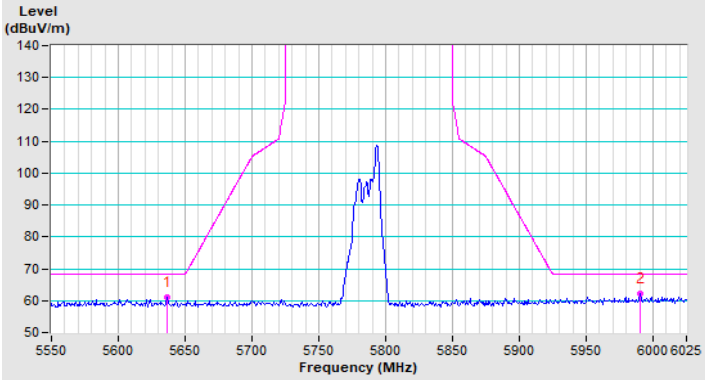


Horizontal (Peak)

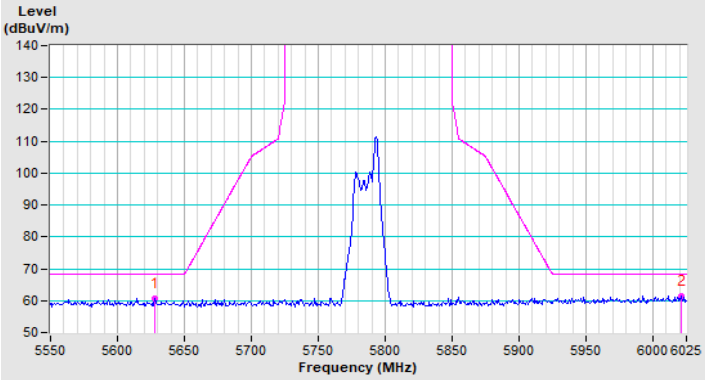


Vertical (Peak)

802.11ax (HE20) 26-tone RU Channel 157

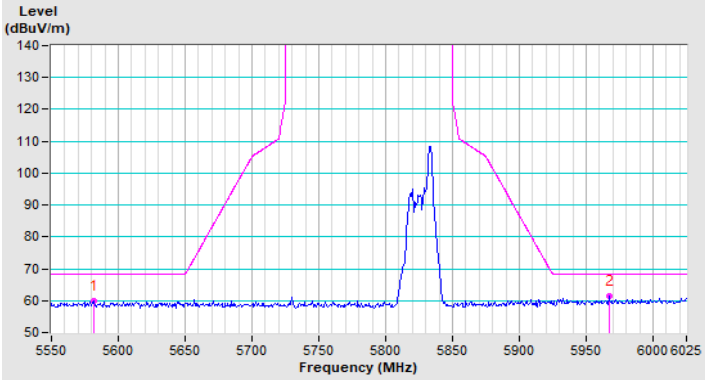


Horizontal (Peak)

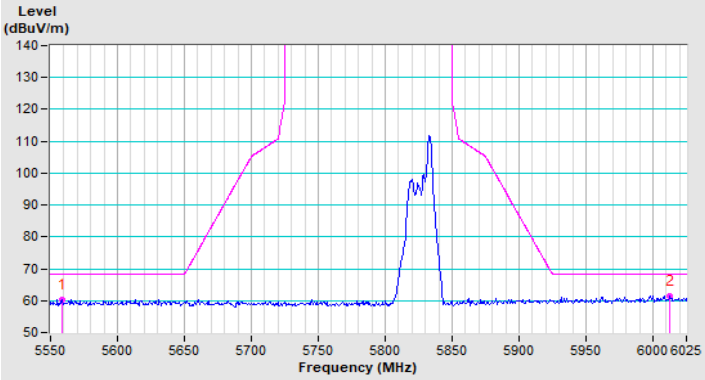


Vertical (Peak)

802.11ax (HE20) 26-tone RU Channel 165

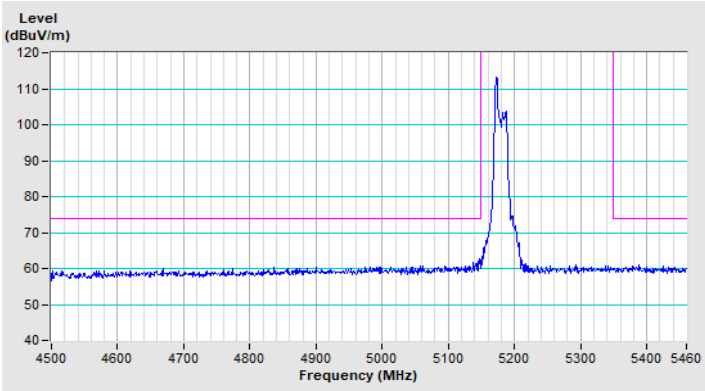


Horizontal (Peak)

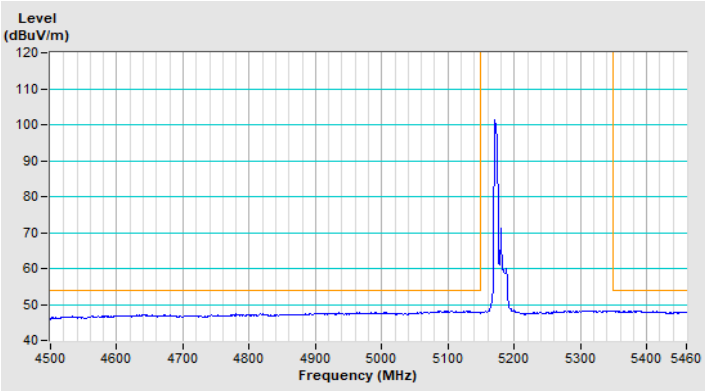


Vertical (Peak)

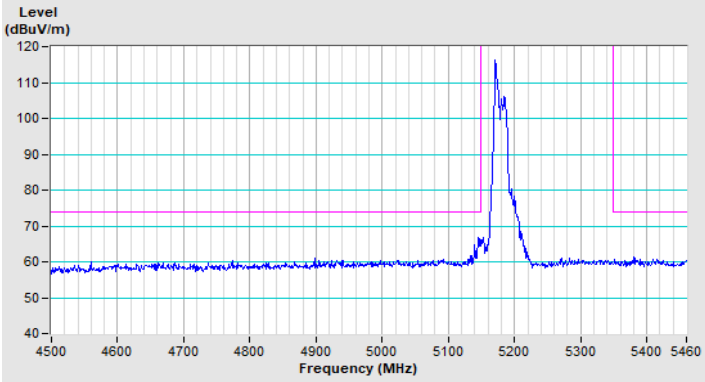
802.11ax (HE20) 52-tone RU Channel 36



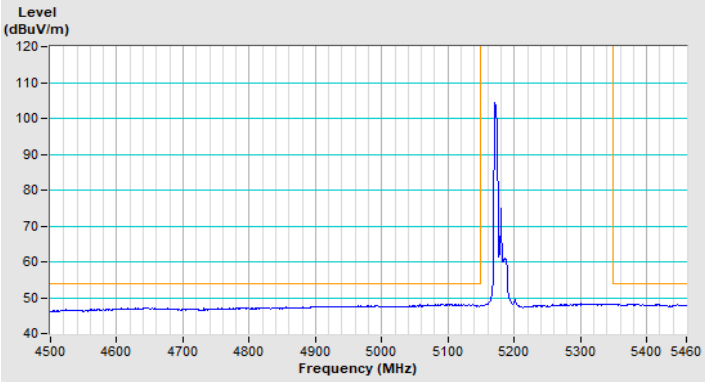
Horizontal (Peak)



Horizontal (Average)

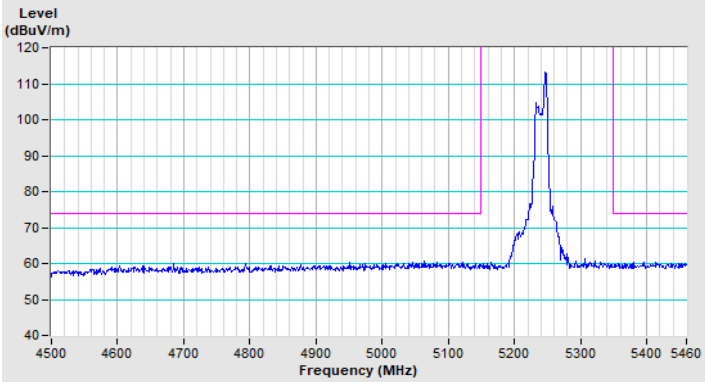


Vertical (Peak)

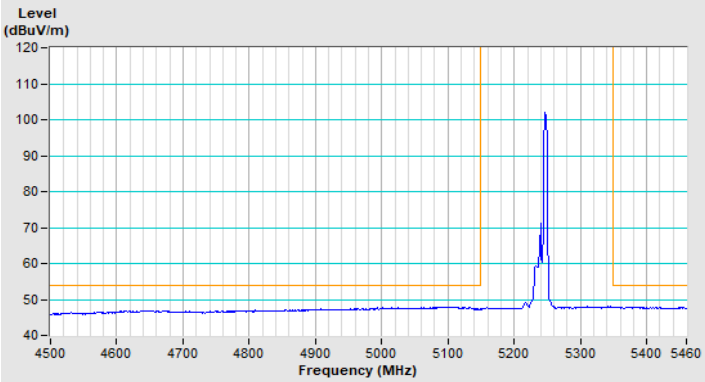


Vertical (Average)

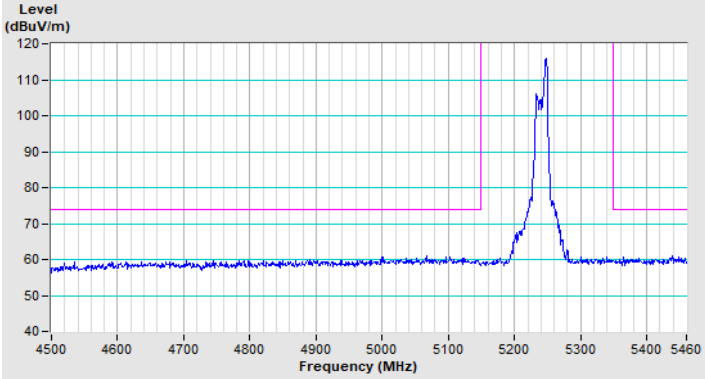
802.11ax (HE20) 52-tone RU Channel 48



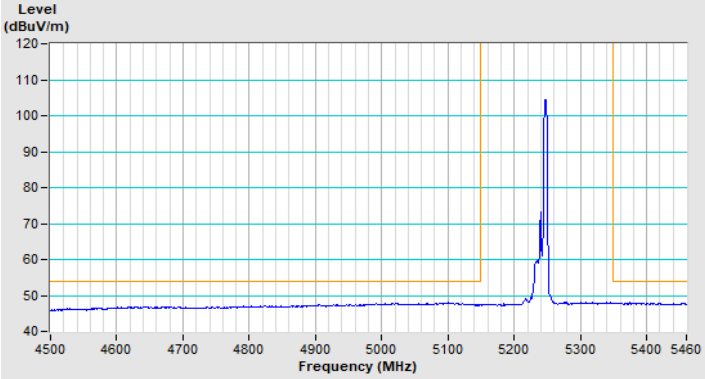
Horizontal (Peak)



Horizontal (Average)

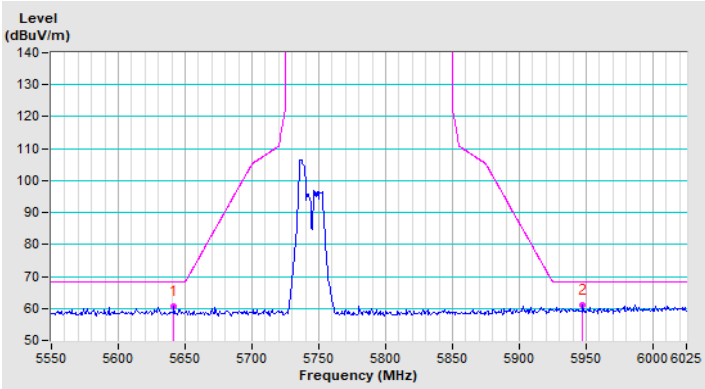


Vertical (Peak)

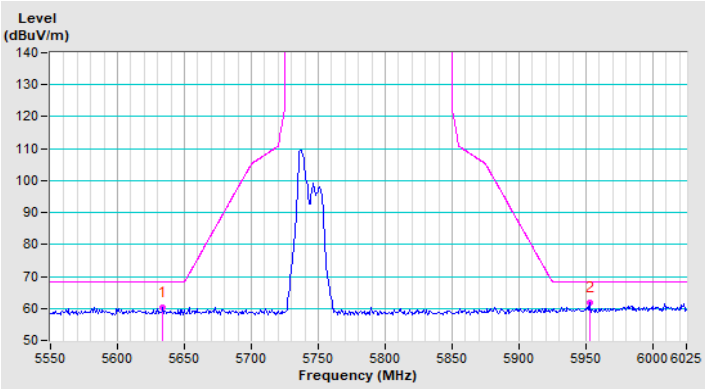


Vertical (Average)

802.11ax (HE20) 52-tone RU Channel 149

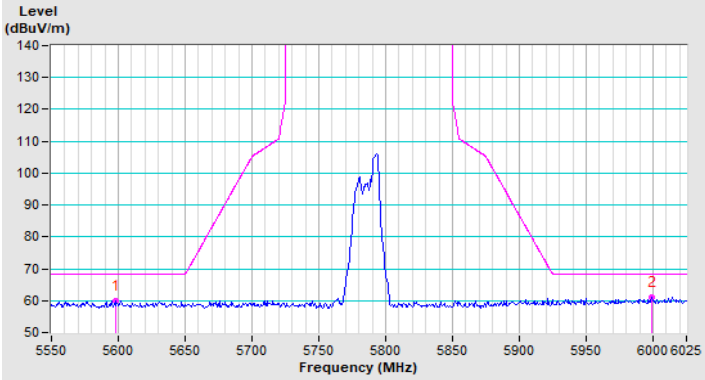


Horizontal (Peak)



Vertical (Peak)

802.11ax (HE20) 52-tone RU Channel 157



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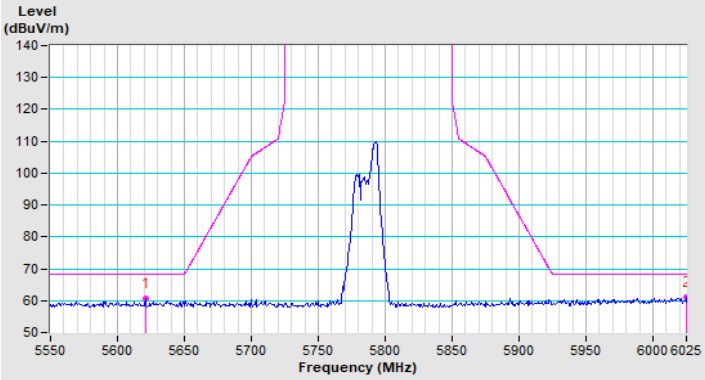
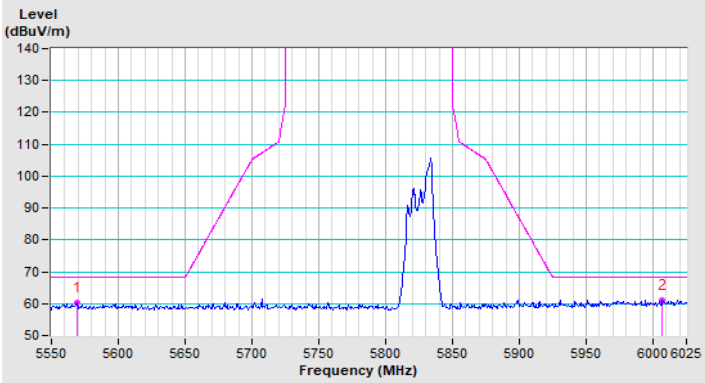
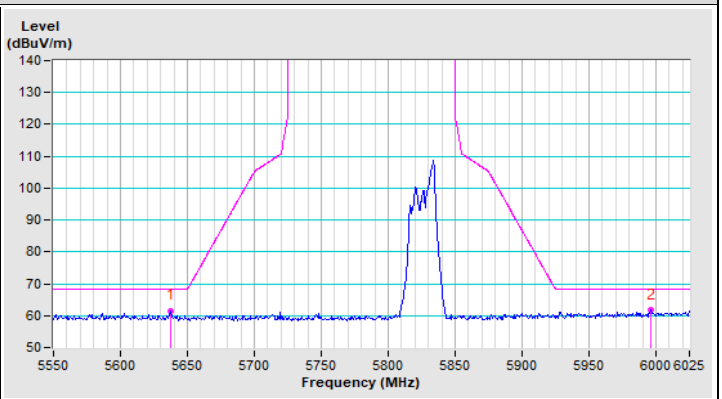


Vertical (Peak)

802.11ax (HE20) 52-tone RU Channel 165

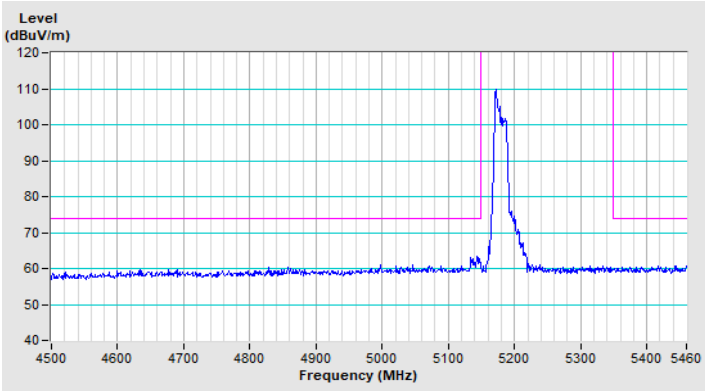


Horizontal (Peak)

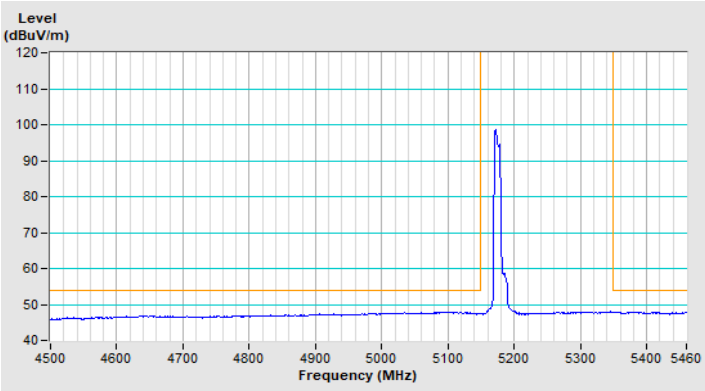


Vertical (Peak)

802.11ax (HE20) 106-tone RU Channel 36



Horizontal (Peak)



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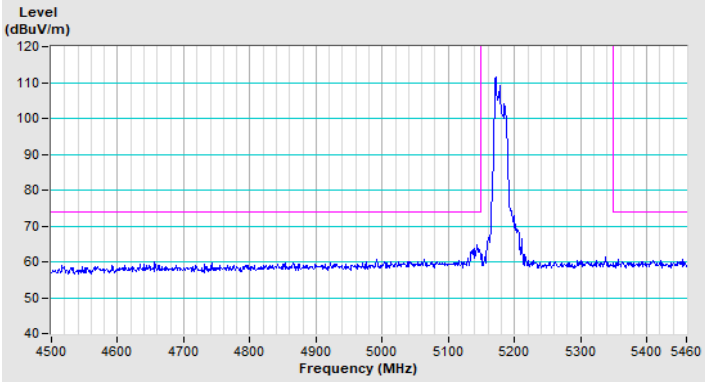

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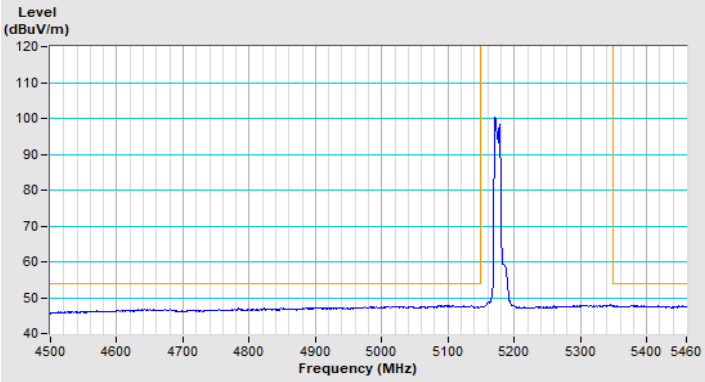
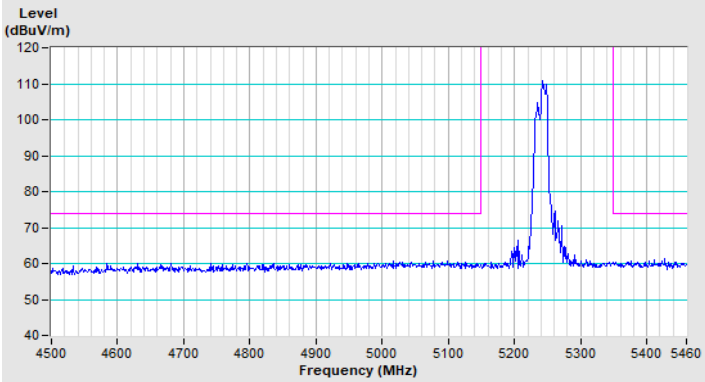


Vertical (Average)

802.11ax (HE20) 106-tone RU Channel 48



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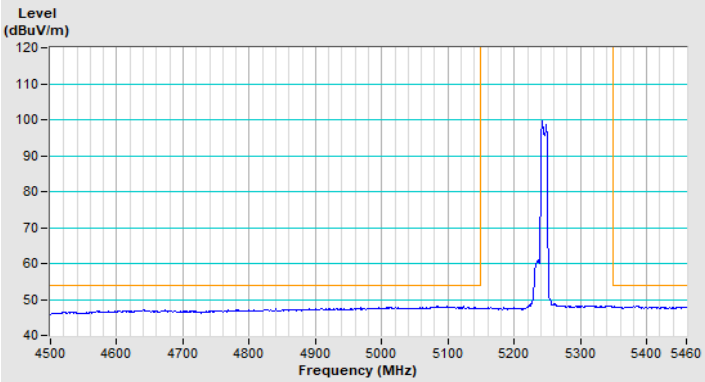

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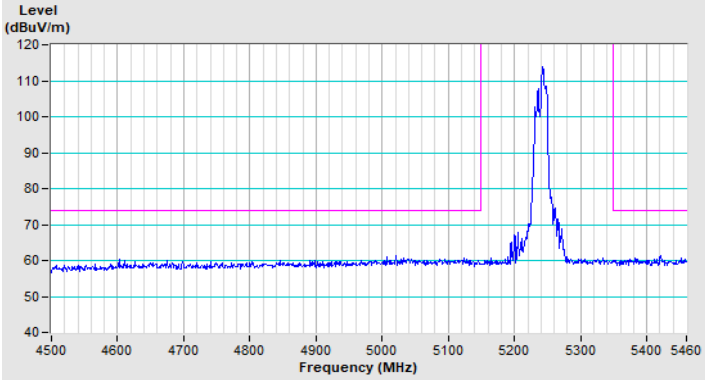
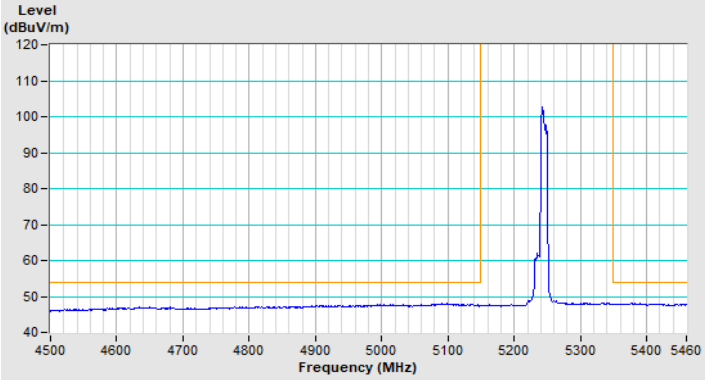
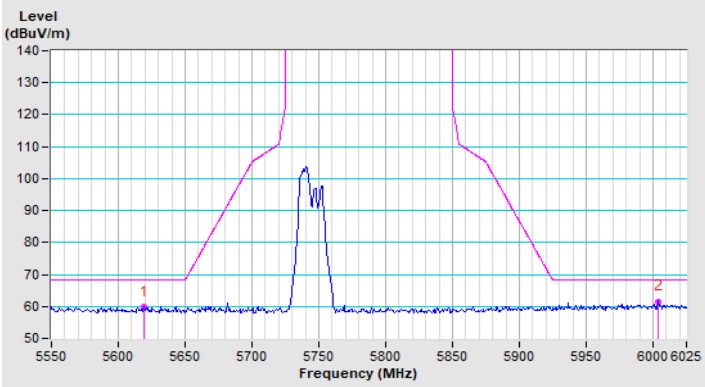


Vertical (Peak)

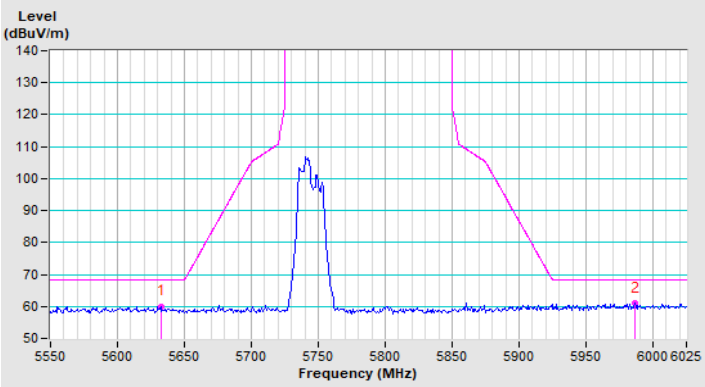


Vertical (Average)

802.11ax (HE20) 106-tone RU Channel 149

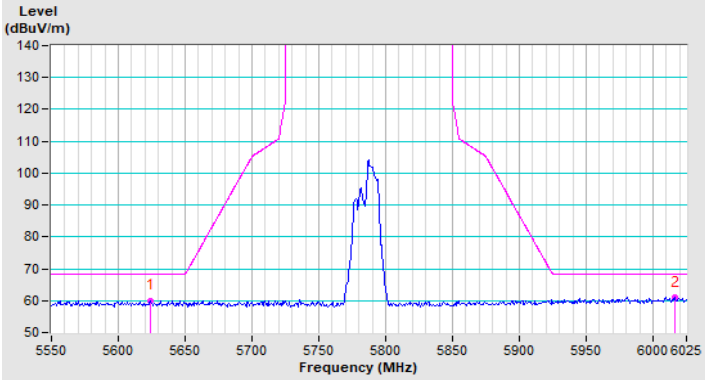


Horizontal (Peak)

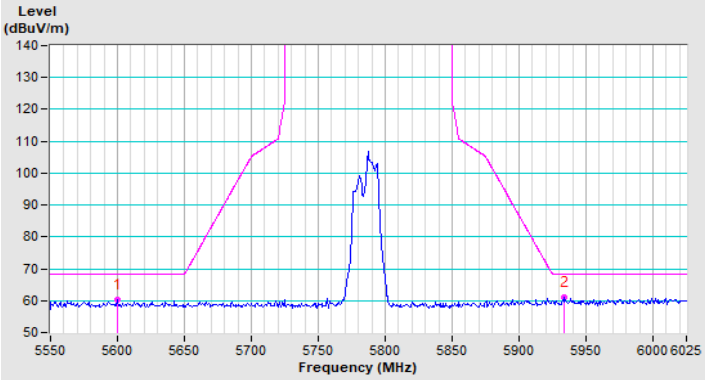


Vertical (Peak)

802.11ax (HE20) 106-tone RU Channel 157

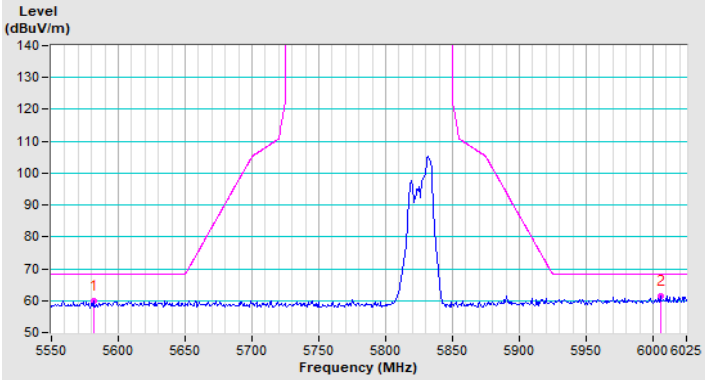


Horizontal (Peak)

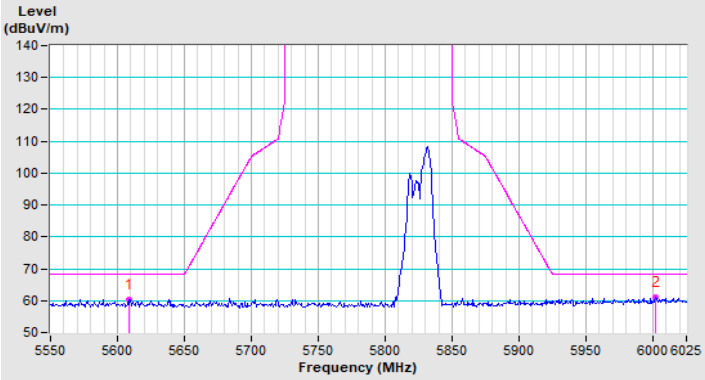


Vertical (Peak)

802.11ax (HE20) 106-tone RU Channel 165



Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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