

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBCMA-WTW-P25030861-2
FCC ID: RAXTMOG5AR
Product: 5G Gateway
Brand: T-Mobile
Model No.: TMO-G5AR
Received Date: 2025/3/24
Test Date: 2025/4/16 ~ 2025/5/16
Issued Date: 2025/5/29

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____

May Chen / Manager

, Date: 2025/5/29

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P25030861-2	Original release.	2025/5/29

1 Certificate

Product: 5G Gateway

Brand: T-Mobile

Test Model: TMO-G5AR

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2025/4/16 ~ 2025/5/16

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) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -4.74 dB at 0.76203 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -10.8 dB at 920.98 MHz
15.407(b) (1/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00 MHz and 5646.88 MHz
15.203	Antenna Requirement	Pass	Antenna connector is MHF1 not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 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	5G Gateway
Brand	T-Mobile
Test Model	TMO-G5AR
Status of EUT	Engineering sample
Power Supply Rating	20 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 2882.4 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), 802.11be (EHT20): 9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 4 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 2
Output Power	CDD Mode: 5.18 GHz ~ 5.24 GHz: 896.367 mW (29.52 dBm) 5.745 GHz ~ 5.825 GHz: 965.747 mW (29.85 dBm) Beamforming Mode: 5.18 GHz ~ 5.24 GHz: 869.996 mW (29.40 dBm) 5.745 GHz ~ 5.825 GHz: 870.177 mW (29.40 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	MOSO	P30-V3000R200-060Q0-US	AC Input: 100~240 Vac, 1.7 A, 50/60 Hz DC Output: 5.0 Vdc, 3.0 A; 9.0 Vdc, 3.0 A; 12.0 Vdc, 3.0 A; 15.0 Vdc, 3.0 A; 20.0 V, 3.0 A DC Output Cable: 1.85 m, non-shielded cable, W/O ferrite core Plug: US
AC Adapter 2	MASS POWER	PD065E-D1C0AVU	AC Input: 100~240 Vac, 1.5 A, 50/60 Hz DC Output: 5.0 Vdc, 3.0 A, 9.0 Vdc, 3.0 A; 12.0 Vdc, 3.0 A; 15.0 Vdc, 3.0 A; 20.0 Vdc, 2.25 A DC Output Cable: 1.8 m, non-shielded cable, W/O ferrite core Plug: US

2. The EUT has below radios as following table:

Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Radio 6
WLAN (2.4GHz + 5GHz)	WLAN (6 GHz)	BT-LE / 802.15.4 (Zigbee/Open Thread/Matter)	BT-LE	GPS	WWAN

3. Simultaneously transmission combination.

Combination	Technology
1	WLAN (2.4 GHz) + WLAN (5 GHz) + WLAN (6 GHz) + 802.15.4 (Zigbee/Open Thread/Matter) + BT-LE + WWAN (LTE)
2	WLAN (2.4 GHz) + WLAN (5 GHz) + WLAN (6 GHz) + 802.15.4 (Zigbee/Open Thread/Matter) + BT-LE + WWAN (5G NR)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
D_1	0	ARC	120800157500J	3.43	2.4~2.4835	Dipole	MHF1
				3.21	5.15~5.25		
				3.4	5.25~5.35		
				3.24	5.47~5.725		
				3.67	5.725~5.85		
D_2	1	ARC	120800157600J	3.51	2.4~2.4835	Dipole	MHF1
				4.02	5.15~5.25		
				3.78	5.25~5.35		
				3.57	5.47~5.725		
				3.56	5.725~5.85		
D_3	2	ARC	120800157700J	3.67	2.4~2.4835	Dipole	MHF1
				4.08	5.15~5.25		
				4.13	5.25~5.35		
				4.62	5.47~5.725		
				4.23	5.725~5.85		
D_4	3	ARC	120800157800J	3.57	2.4~2.4835	Dipole	MHF1
				3.45	5.15~5.25		
				3.45	5.25~5.35		
				3.52	5.47~5.725		
				3.55	5.725~5.85		

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

2. The directional antenna gain, please refer to the following table:

Frequency Range (GHz)	Directional Gain (dBi)
2.4~2.4835	5.99
5.15~5.25	5.78
5.725~5.85	6.52

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX
802.11be (EHT80)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

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), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

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), 802.11be (EHT20):

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), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: P30-V3000R200-060Q0-US / PD065E-D1C0AVU. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. AC Adapter worst condition: P30-V3000R200-060Q0-US

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)		38, 46, 151, 159	BPSK	MCS0
	802.11ac (VHT80)		42, 155	BPSK	MCS0
	802.11be (EHT20)		36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		151, 159	BPSK	MCS0
	802.11be (EHT80)		155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11be (EHT40)	CDD	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11be (EHT40)	CDD	159	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 155	BPSK	MCS0

Note: Partial RU (resource unit) and channel puncturing mechanisms are not supported.

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.733 ms / 2.784 ms x 100% = 98.2%

802.11ac (VHT20): Duty cycle = 3.956 ms / 4.006 ms x 100% = 98.8%

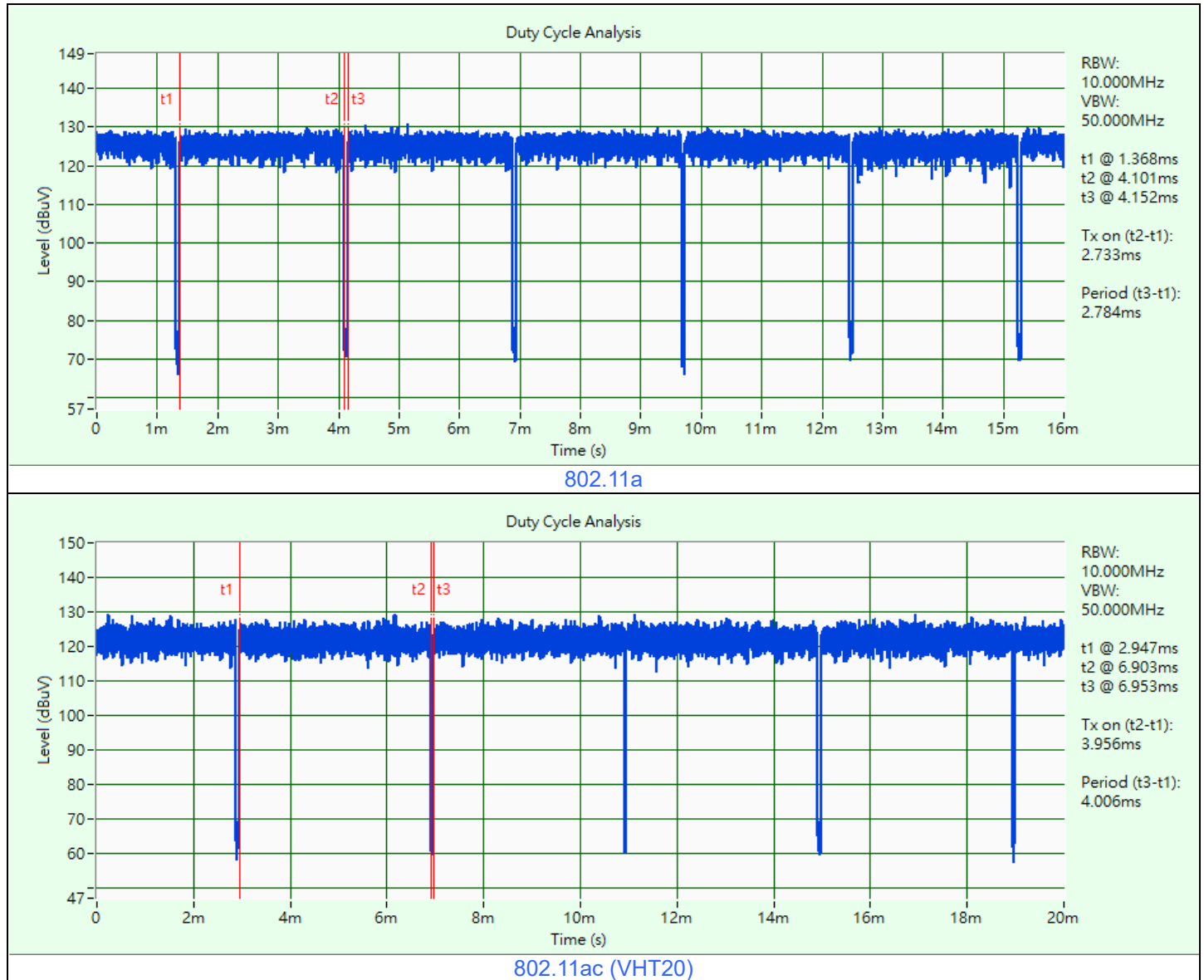
802.11ac (VHT40): Duty cycle = 3.952 ms / 4.003 ms x 100% = 98.7%

802.11ac (VHT80): Duty cycle = 2.781 ms / 2.833 ms x 100% = 98.2%

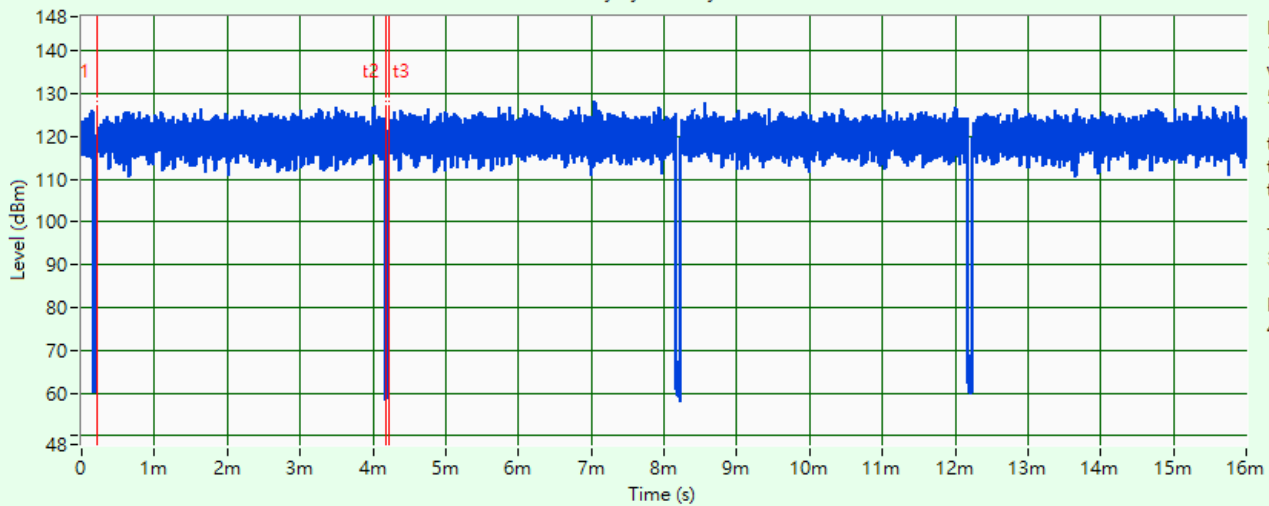
802.11be (EHT20): Duty cycle = 3.956 ms / 4.006 ms x 100% = 98.8%

802.11be (EHT40): Duty cycle = 3.952 ms / 4.003 ms x 100% = 98.7%

802.11be (EHT80): Duty cycle = 2.781 ms / 2.833 ms x 100% = 98.2%

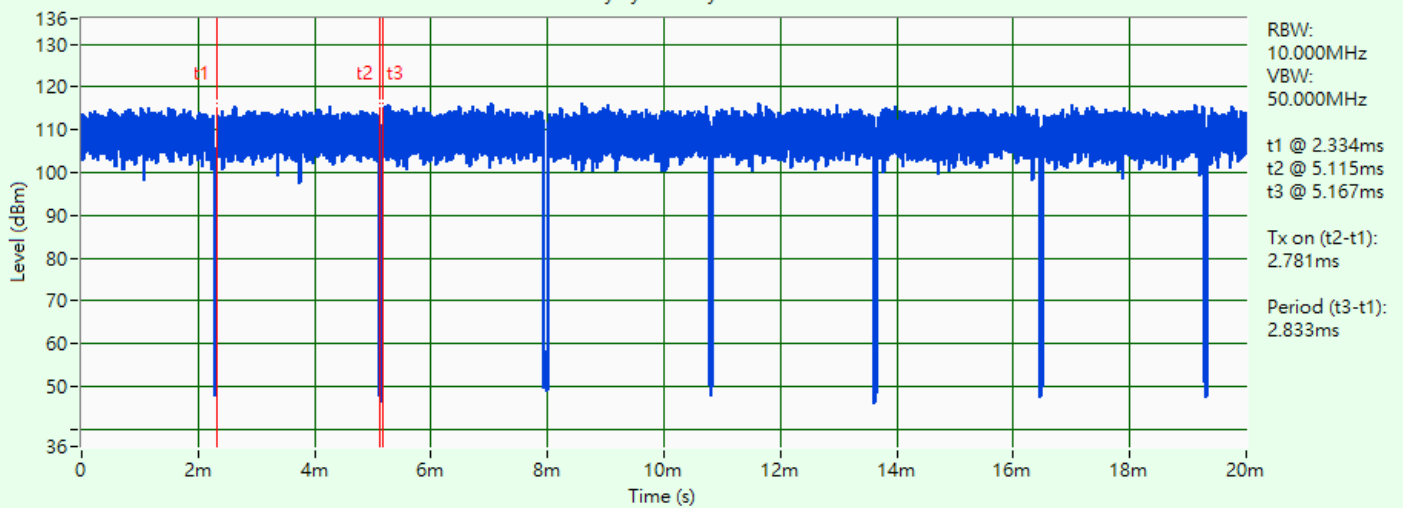


Duty Cycle Analysis



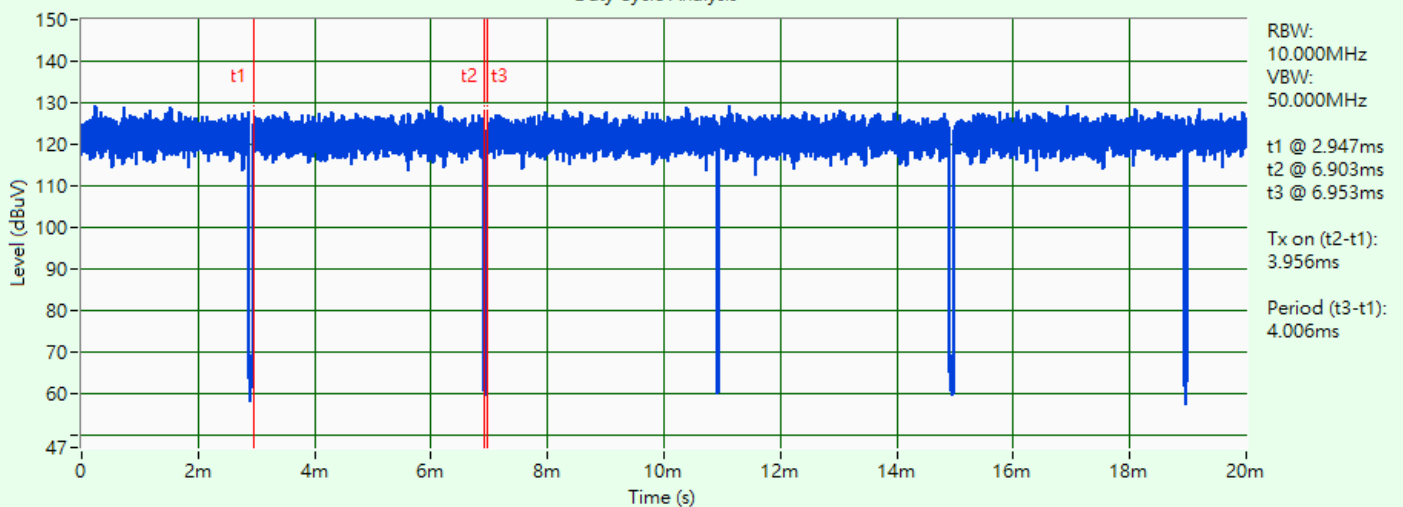
802.11ac (VHT40)

Duty Cycle Analysis



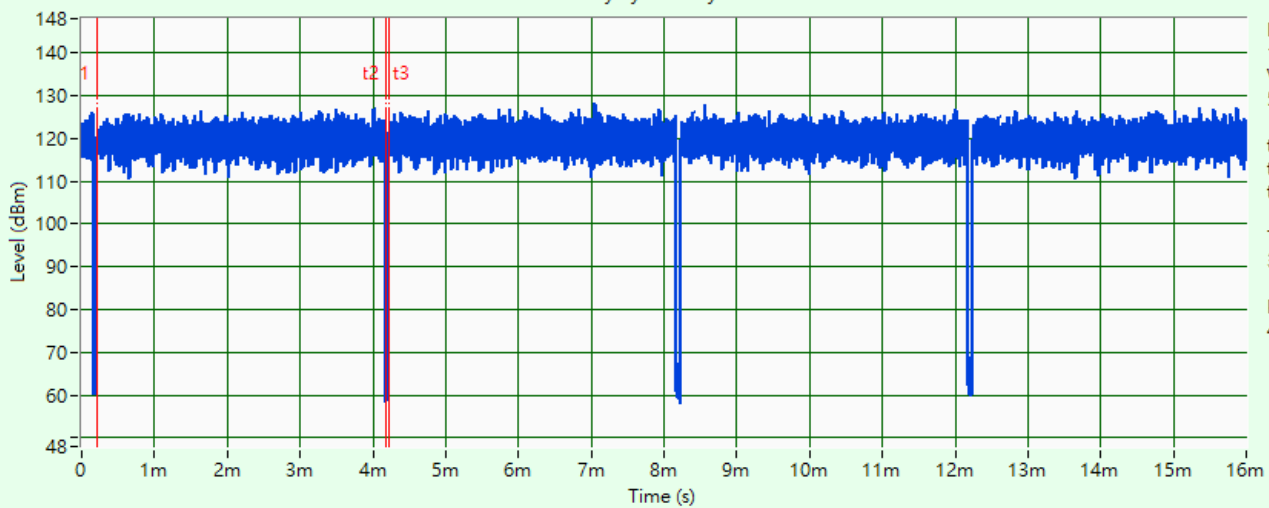
802.11ac (VHT80)

Duty Cycle Analysis



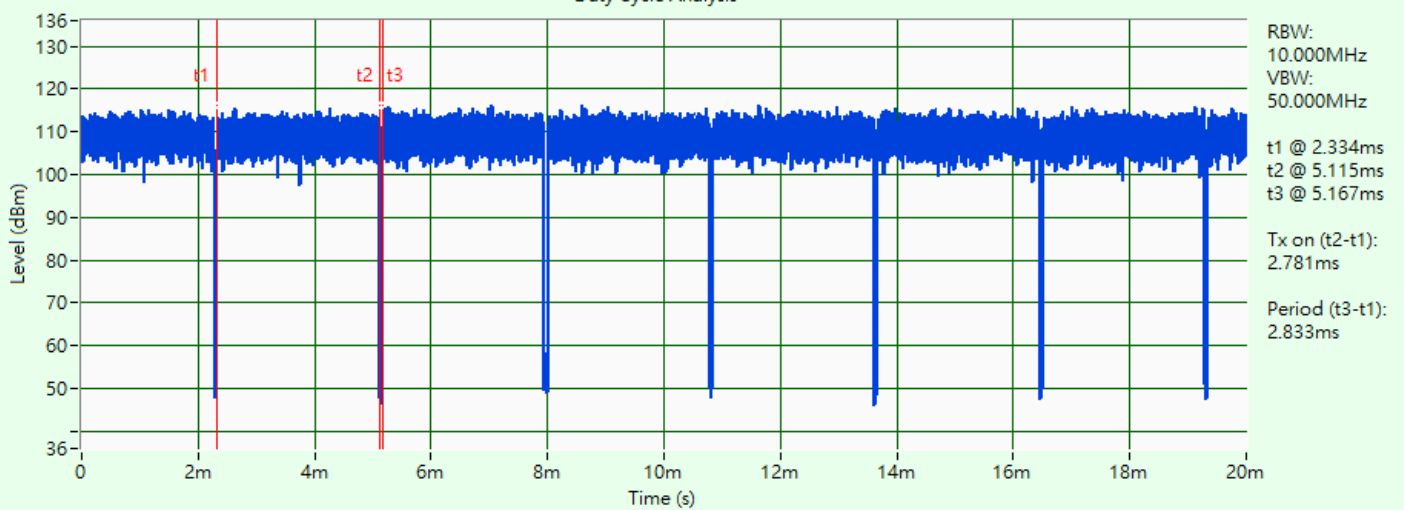
802.11be (EHT20)

Duty Cycle Analysis



802.11be (EHT40)

Duty Cycle Analysis

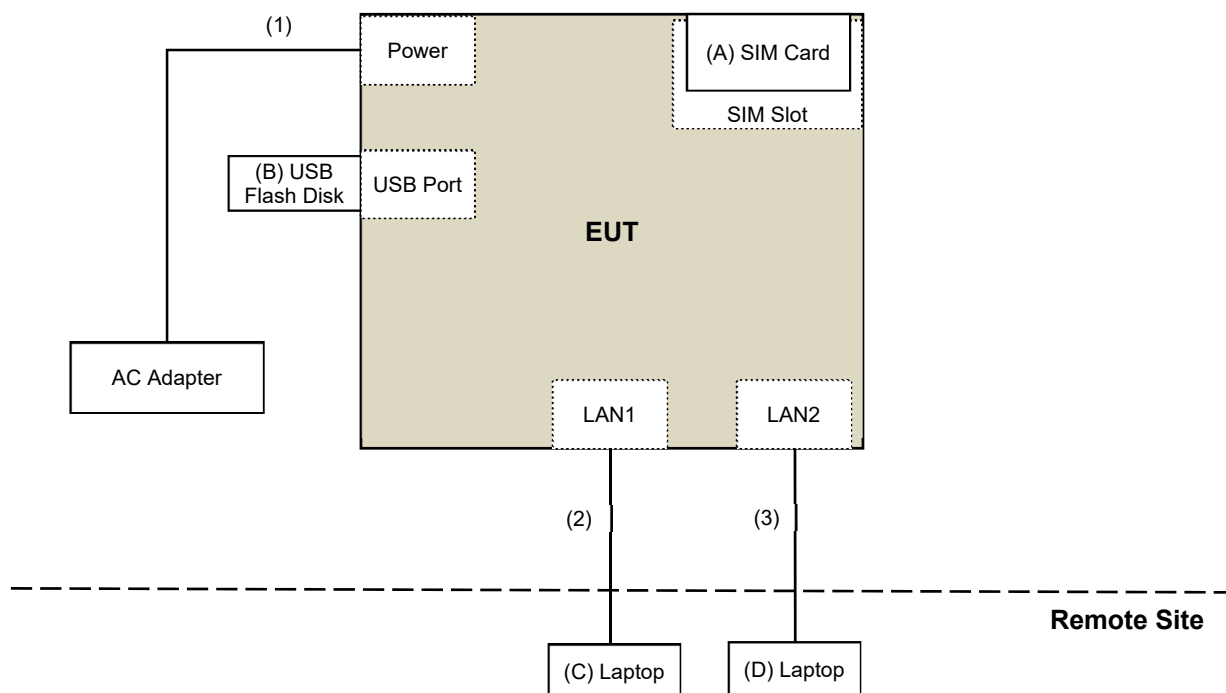


802.11be (EHT80)

3.6 Test Program Used and Operation Descriptions

Controlling software (Qatool Version 0.0.2.99) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	SIM Card	KeysSight	E7515-10910	N/A	N/A	Provided by Lab
B	USB	SANDISK	Ultra Luxe	N/A	N/A	Provided by Lab
C	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab
D	Laptop	DELL	E6420	H62T3R1	DoC	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.85	No	0	Supplied by applicant
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/5/13

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/5/13

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Occupied Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2025/2/17	2026/2/16
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2025/2/17	2026/2/16
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/5/16

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2025/3/29	2026/3/28
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
Preamplifier EMCI	EMC330N	980538	2025/3/29	2026/3/28
	EMC001340	980142	2025/2/17	2026/2/16
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable PEWC	8D	966-5-1	2025/3/29	2026/3/28
		966-5-2	2025/3/29	2026/3/28
		966-5-3	2025/3/29	2026/3/28
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/5/16

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
Preamplifier EMCI	EMC12630SE	980509	2025/1/18	2026/1/17
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180503	2025/3/8	2026/3/7
	EMC104-SM-SM-2000	180501	2025/3/8	2026/3/7
	EMC104-SM-SM-6000	180506	2025/3/8	2026/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/4/16 ~ 2025/5/16

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 $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	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 Points	
	Indoor Access Point	
	Client devices	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 AC Power Conducted Emissions

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

Notes:

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

5.6 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.7 Unwanted Emissions above 1 GHz

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.

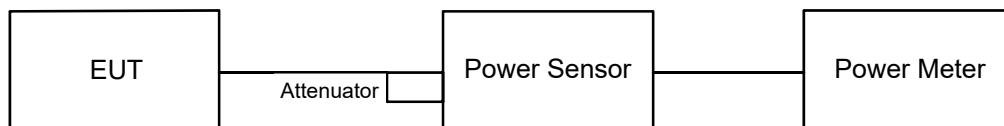
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

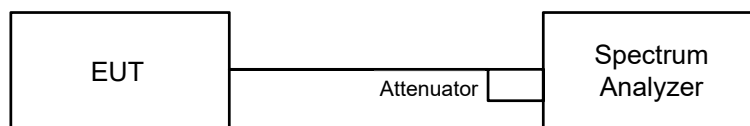


6.1.2 Test Procedure

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

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

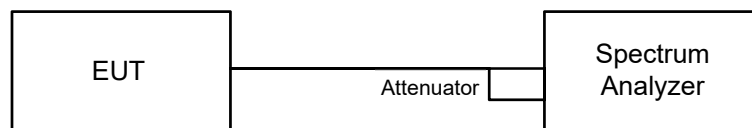
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

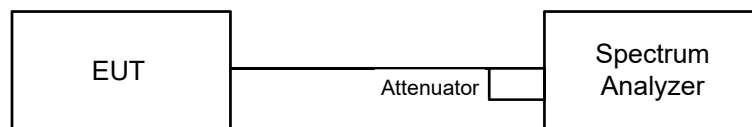


6.3.2 Test Procedure

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

6.4 Occupied Bandwidth

6.4.1 Test Setup

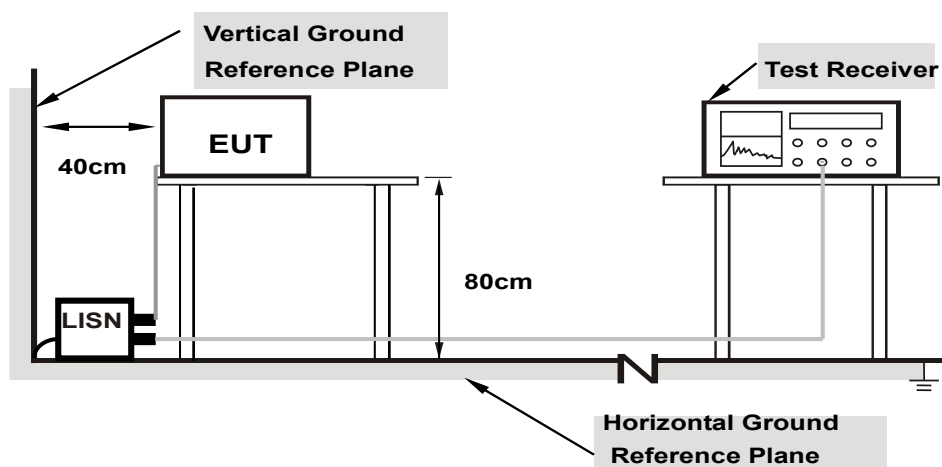


6.4.2 Test Procedure

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 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

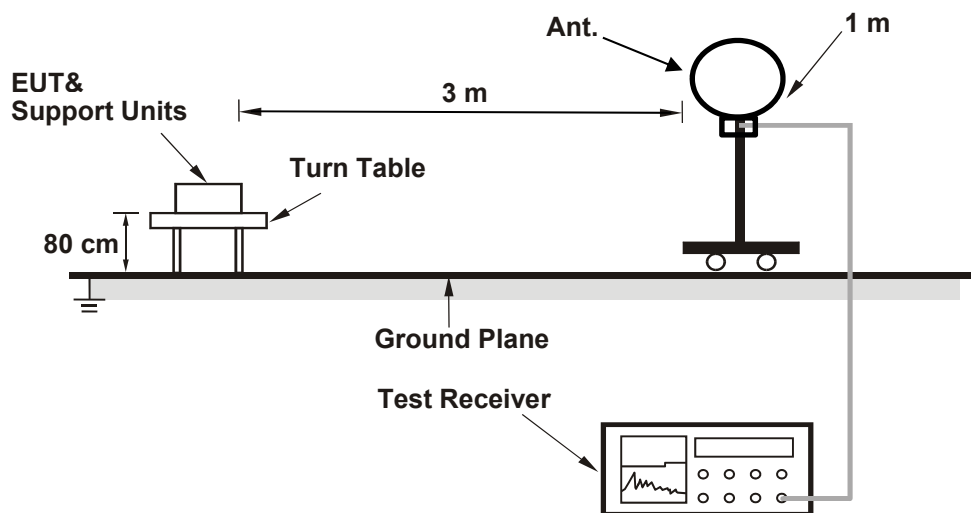
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

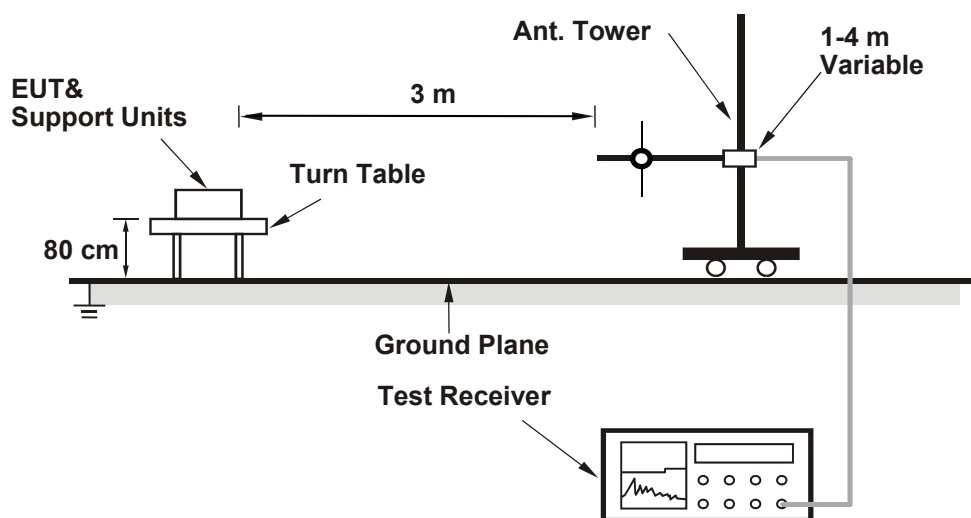
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

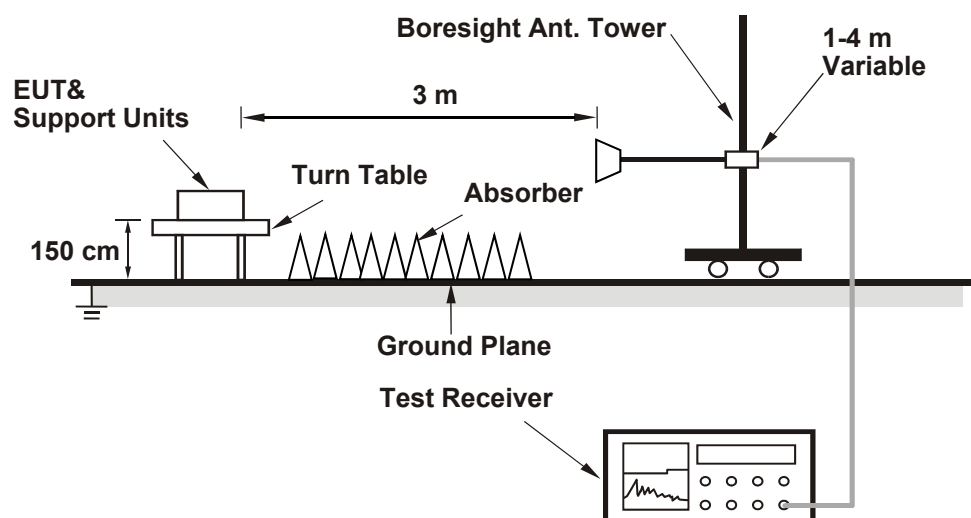
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chun Wu
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	23.39	22.81	23.36	23.30	839.825	29.24	30	Pass
40	5200	22.89	22.85	22.71	23.24	784.789	28.95	30	Pass
48	5240	23.22	22.92	23.18	22.69	799.529	29.03	30	Pass
149	5745	23.82	23.72	23.74	23.27	925.412	29.66	30	Pass
157	5785	23.77	23.74	23.62	23.45	926.278	29.67	30	Pass
165	5825	23.73	23.52	23.60	23.47	912.371	29.60	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.76	21.56	21.68	22.48	617.429	27.91	30	Pass
40	5200	22.86	22.86	23.18	22.81	785.349	28.95	30	Pass
48	5240	23.39	23.21	23.69	23.14	867.631	29.38	30	Pass
149	5745	23.94	23.76	23.24	23.42	916.075	29.62	30	Pass
157	5785	23.95	23.54	23.50	23.45	919.438	29.64	30	Pass
165	5825	24.03	23.90	23.09	23.21	911.516	29.60	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.22	18.86	19.08	19.15	323.607	25.10	30	Pass
46	5230	23.79	23.31	23.11	23.08	861.501	29.35	30	Pass
151	5755	23.99	23.71	23.39	23.33	919.125	29.63	30	Pass
159	5795	23.79	23.68	23.55	23.64	930.348	29.69	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.64	15.42	15.44	15.76	144.142	21.59	30	Pass
155	5775	23.54	23.42	23.34	22.90	856.488	29.33	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.95	21.75	21.78	22.60	638.929	28.05	30	Pass
40	5200	22.97	22.98	23.31	22.91	806.485	29.07	30	Pass
48	5240	23.53	23.36	23.80	23.31	896.367	29.52	30	Pass
149	5745	24.06	23.91	23.38	23.55	944.955	29.75	30	Pass
157	5785	24.06	23.73	23.63	23.55	947.87	29.77	30	Pass
165	5825	24.20	24.07	23.22	23.41	947.471	29.77	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.34	18.97	19.19	19.26	332.106	25.21	30	Pass
46	5230	23.90	23.47	23.21	23.27	889.538	29.49	30	Pass
151	5755	24.14	23.87	23.56	23.47	952.516	29.79	30	Pass
159	5795	23.93	23.81	23.74	23.83	965.747	29.85	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.82	15.53	15.57	15.94	149.244	21.74	30	Pass
155	5775	23.71	23.58	23.53	23.00	887.948	29.48	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 4.23 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.58	21.37	21.48	22.29	591.007	27.72	30	Pass
40	5200	22.68	22.75	23.08	22.63	760.185	28.81	30	Pass
48	5240	23.23	23.04	23.56	22.99	837.804	29.23	30	Pass
149	5745	23.42	23.31	22.82	23.01	825.487	29.17	29.48	Pass
157	5785	23.54	23.06	23.01	23.04	829.604	29.19	29.48	Pass
165	5825	23.62	23.46	22.62	22.82	826.199	29.17	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.52-6) = 29.48 dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.08	18.74	18.95	19.01	313.866	24.97	30	Pass
46	5230	23.67	23.18	22.94	22.97	835.72	29.22	30	Pass
151	5755	23.52	23.31	22.92	22.91	830.513	29.19	29.48	Pass
159	5795	23.31	23.19	23.02	23.17	830.677	29.19	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.49	15.26	15.29	15.60	139.088	21.43	30	Pass
155	5775	23.21	23.02	22.94	22.57	787.364	28.96	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.82	21.65	21.60	22.46	619.014	27.92	30	Pass
40	5200	22.80	22.80	23.11	22.81	776.722	28.90	30	Pass
48	5240	23.39	23.25	23.67	23.11	867.075	29.38	30	Pass
149	5745	23.57	23.46	22.87	23.06	845.273	29.27	29.48	Pass
157	5785	23.61	23.26	23.17	23.08	852.178	29.31	29.48	Pass
165	5825	23.74	23.62	22.79	22.98	855.453	29.32	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.24	18.85	19.07	19.16	323.819	25.10	30	Pass
46	5230	23.81	23.42	23.08	23.15	869.996	29.40	30	Pass
151	5755	23.65	23.32	23.07	22.98	847.9	29.28	29.48	Pass
159	5795	23.46	23.39	23.28	23.37	870.177	29.40	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.69	15.39	15.42	15.83	144.778	21.61	30	Pass
155	5775	23.31	23.09	23.06	22.59	801.847	29.04	29.48	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.78 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chun Wu
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802.11a CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	10.76	10.57	10.48	10.37	16.57	17	Pass
40	5200	10.84	10.63	10.80	11.14	16.88	17	Pass
48	5240	10.99	10.28	10.62	10.43	16.61	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.78 dBi < 6dBi, so the power density limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	10.04	9.53	9.41	9.02	15.54	17	Pass
40	5200	10.72	10.40	10.53	10.78	16.63	17	Pass
48	5240	10.78	10.74	11.06	10.96	16.91	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.78 dBi < 6dBi, so the power density limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	5.36	4.80	4.76	4.83	10.97	17	Pass
46	5230	10.21	9.62	9.33	9.42	15.68	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.78 dBi < 6dBi, so the power density limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-1.02	-1.89	-1.73	-1.71	4.45	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.78 dBi < 6dBi, so the power density limit shall not be reduced.

802.11a CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	7.65	6.94	6.74	6.49	13	15.22	29.48	Pass
157	5785	7.13	7.56	6.89	6.49	13.06	15.28	29.48	Pass
165	5825	7.61	7.35	7.06	7.00	13.28	15.50	29.48	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	6.41	6.73	6.29	5.87	12.36	14.58	29.48	Pass
157	5785	6.59	6.66	6.13	5.80	12.33	14.55	29.48	Pass
165	5825	7.01	6.56	5.64	6.02	12.36	14.58	29.48	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	4.91	4.65	4.44	4.31	10.6	12.82	29.48	Pass
159	5795	5.37	4.50	4.34	4.71	10.77	12.99	29.48	Pass

Notes:

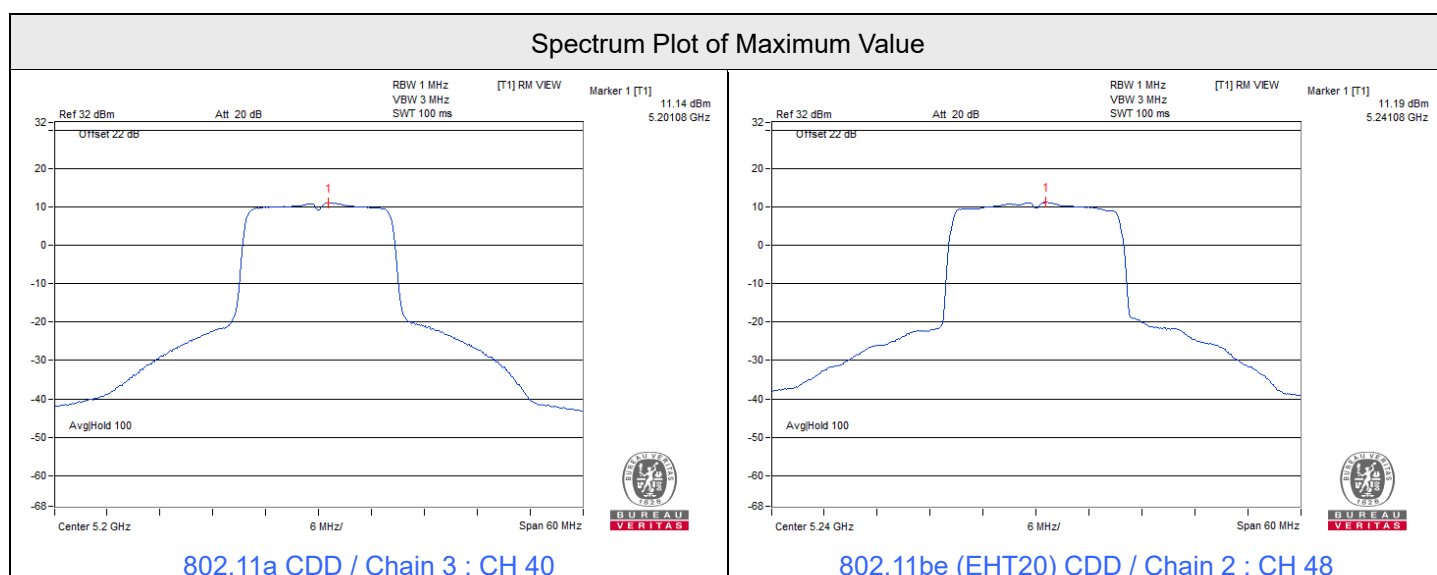
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

802.11be (EHT80) CDD

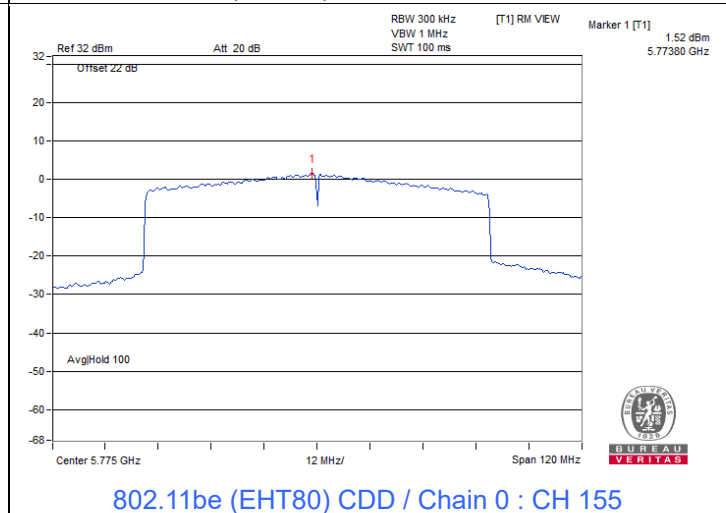
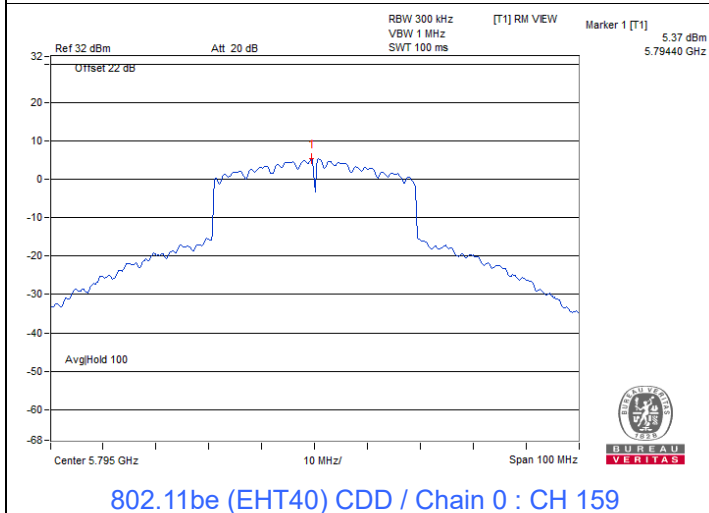
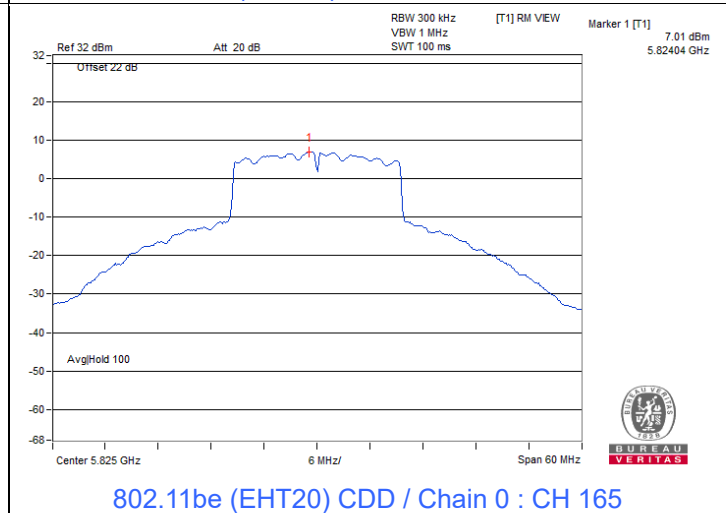
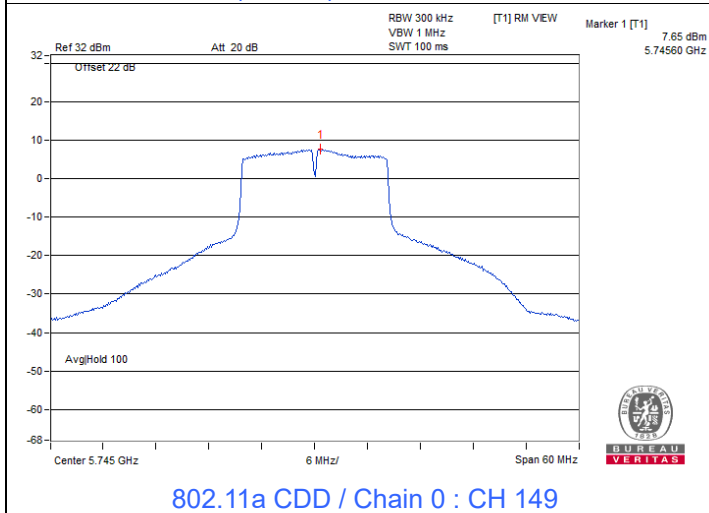
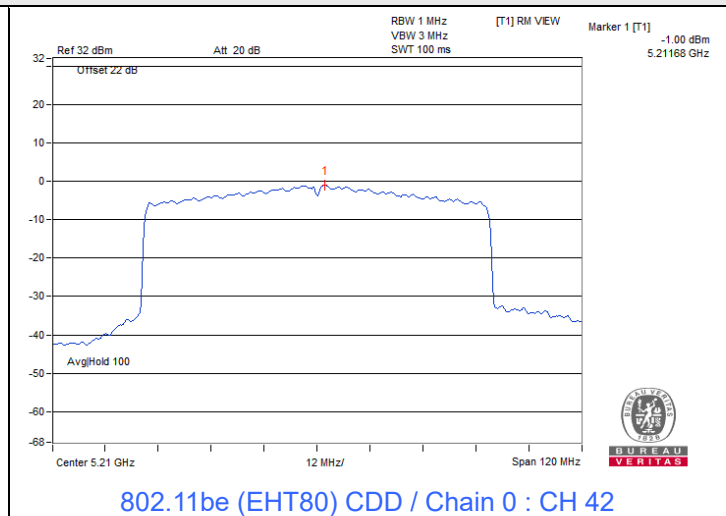
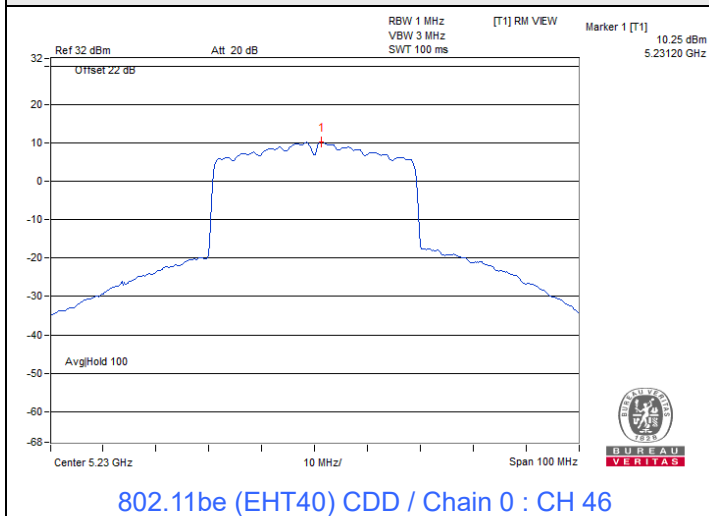
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	1.52	1.21	1.00	1.17	7.25	9.47	29.48	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.



Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chun Wu
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802.11a CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	15.91	16.31	16.26	16.32	0.5	Pass
157	5785	15.68	15.68	15.04	16.30	0.5	Pass
165	5825	15.63	15.68	15.68	16.32	0.5	Pass

802.11be (EHT20) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.44	18.97	18.41	18.68	0.5	Pass
157	5785	18.59	18.18	18.19	18.69	0.5	Pass
165	5825	18.20	18.18	18.27	17.84	0.5	Pass

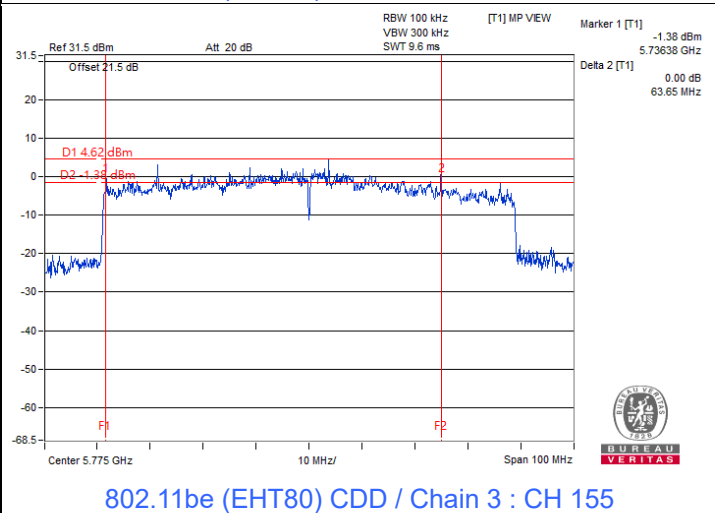
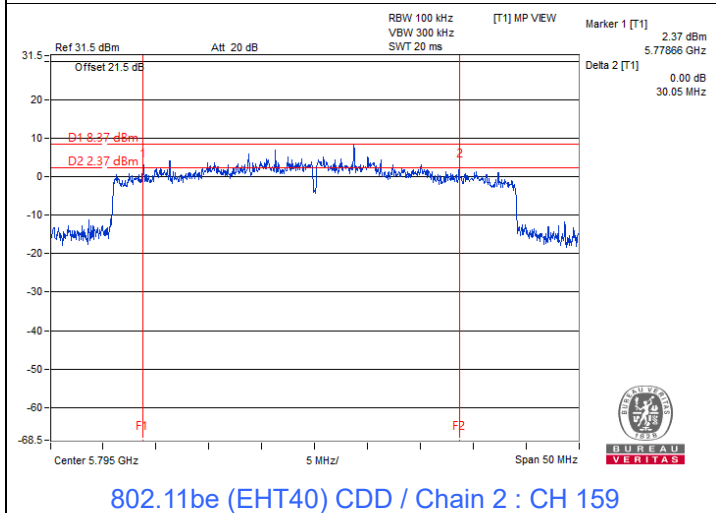
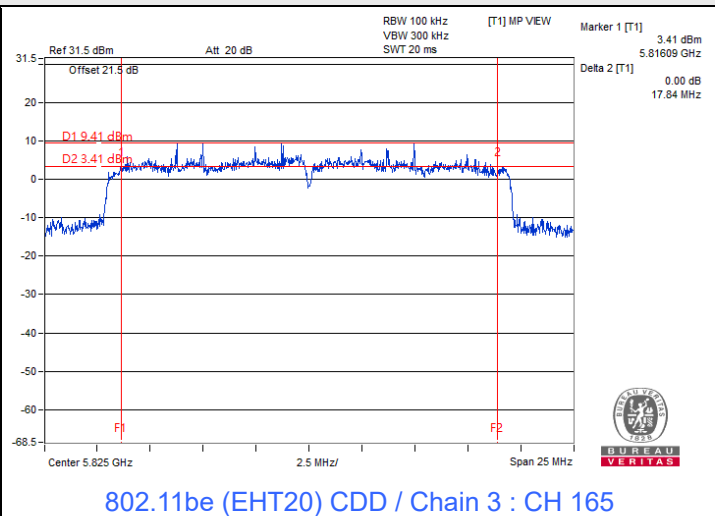
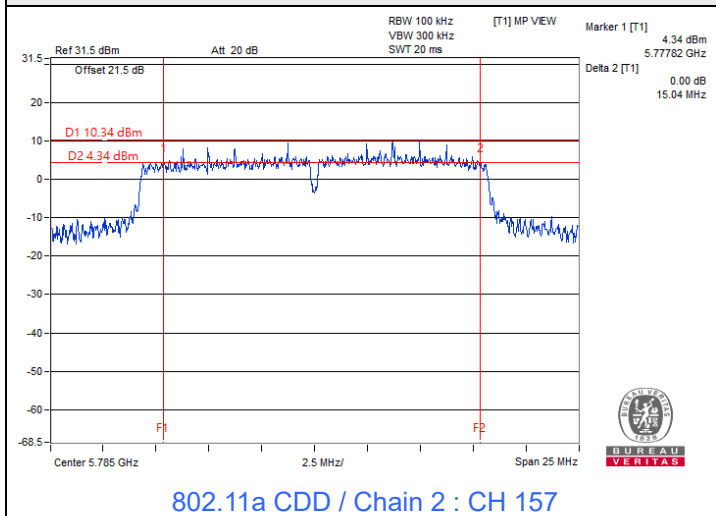
802.11be (EHT40) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	32.60	31.35	36.50	33.87	0.5	Pass
159	5795	33.82	36.47	30.05	37.62	0.5	Pass

802.11be (EHT80) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	75.54	76.41	65.12	63.65	0.5	Pass

Spectrum Plot of Minimum Value



Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.4 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chun Wu
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802.11a CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.38	16.50	16.44	16.50
40	5200	16.44	16.44	16.38	16.44
48	5240	16.38	16.38	16.38	16.38
149	5745	16.68	16.86	16.86	16.80
157	5785	17.76	20.04	20.46	18.84
165	5825	20.52	21.36	20.46	26.82

802.11be (EHT20) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.90	18.90	18.90	18.84
40	5200	18.90	18.90	18.90	18.90
48	5240	18.90	18.90	18.84	18.96
149	5745	19.08	19.08	19.08	19.08
157	5785	19.20	21.18	19.50	19.26
165	5825	19.98	19.86	20.34	23.58

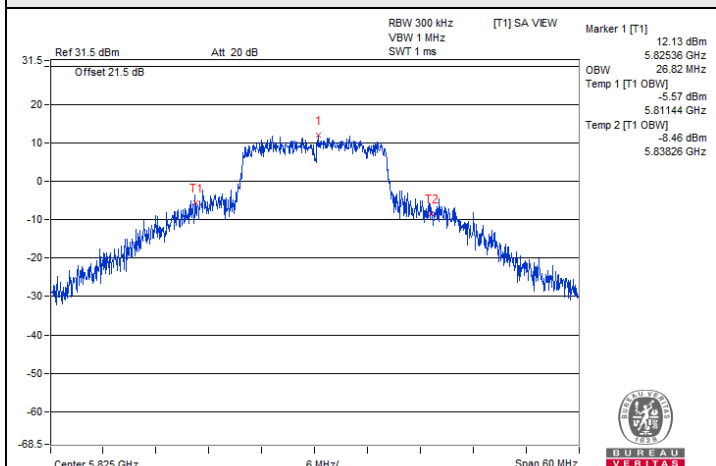
802.11be (EHT40) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.68	37.68	37.68	37.56
46	5230	37.68	37.68	37.80	37.68
151	5755	38.16	38.40	39.12	38.76
159	5795	38.88	39.00	41.04	38.52

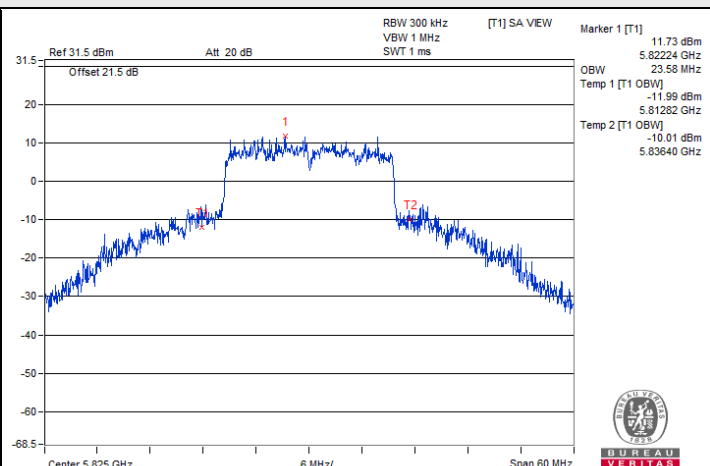
802.11be (EHT80) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	76.80	76.80	76.80
155	5775	77.52	77.04	77.52	77.52

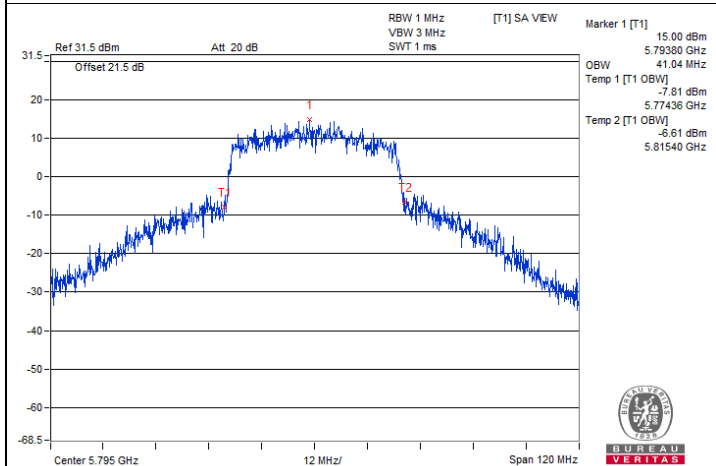
Spectrum Plot of Maximum Value



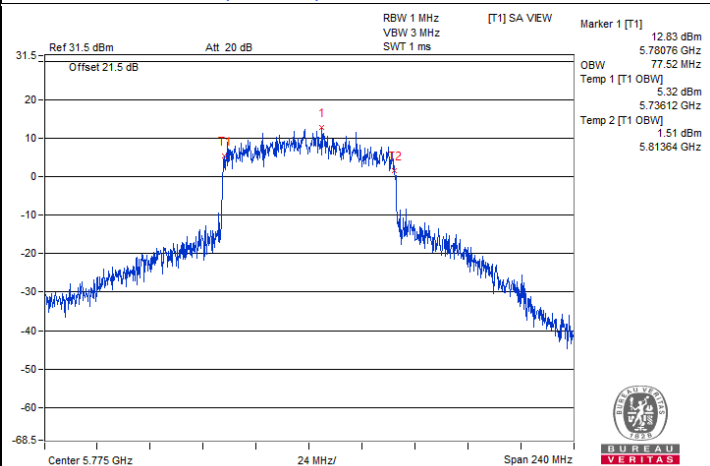
802.11a CDD/ Chain 3 : CH 165



802.11be (EHT20) CDD / Chain 3 : CH 165

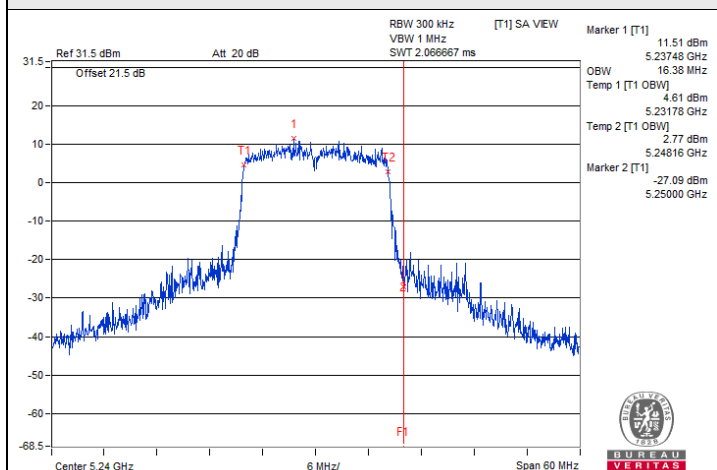


802.11be (EHT40) CDD / Chain 2 : CH 159

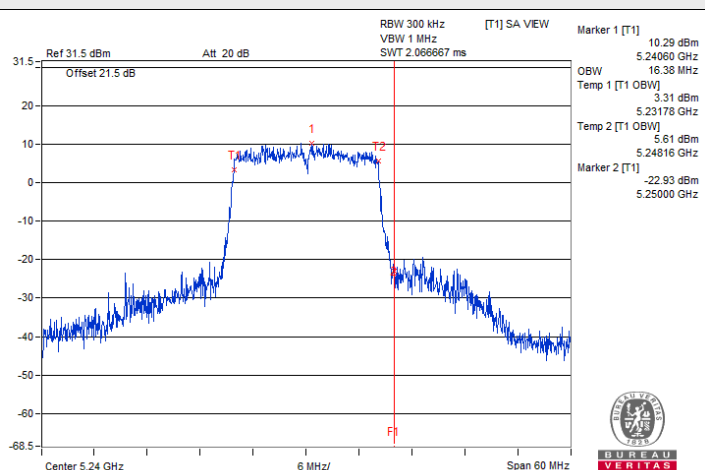


802.11be (EHT80) CDD / Chain 0 : CH 155

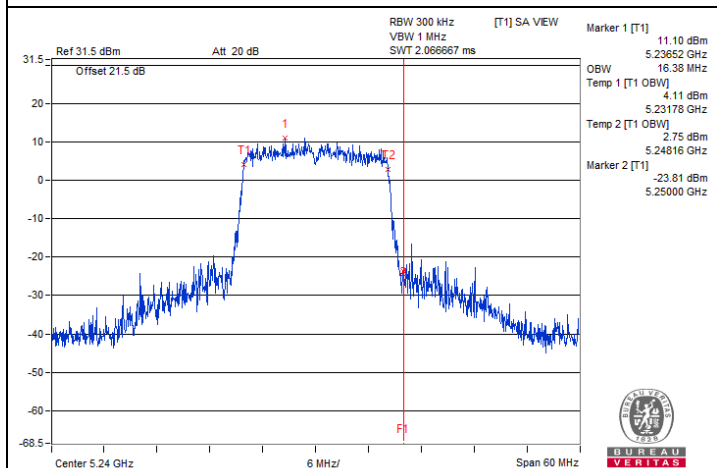
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



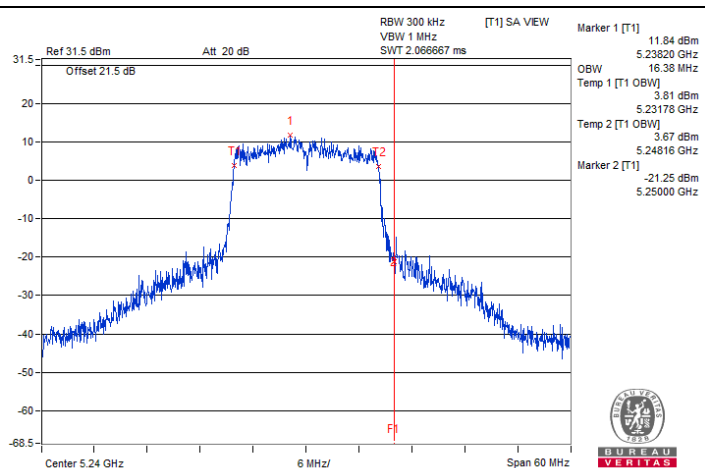
802.11a CDD / Chain 0 : CH 48



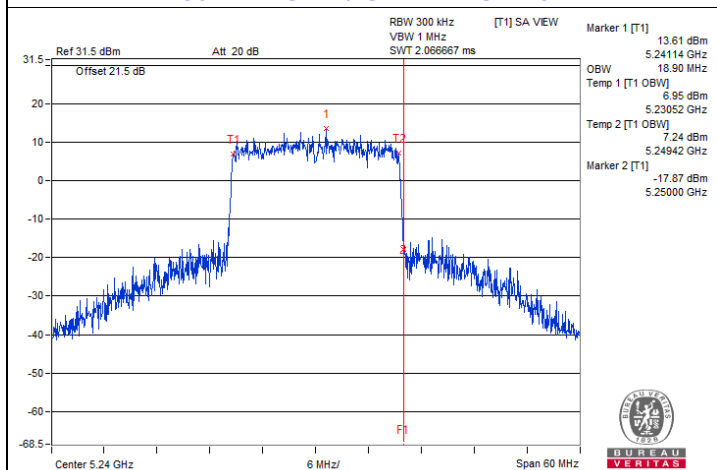
802.11a CDD / Chain 1 : CH 48



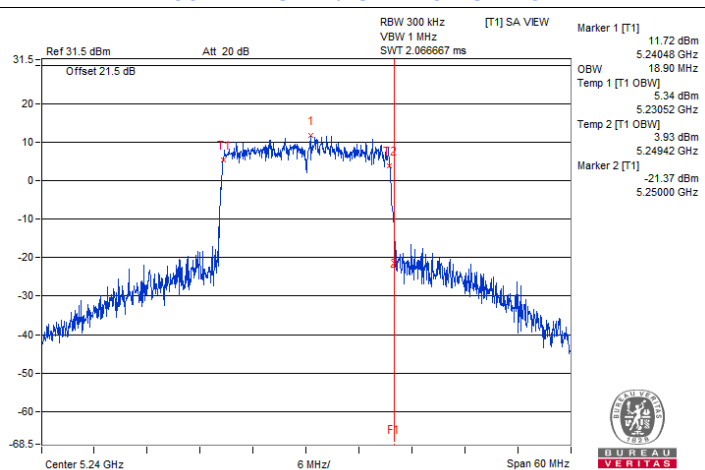
802.11a CDD / Chain 2 : CH 48



802.11a CDD / Chain 3 : CH 48

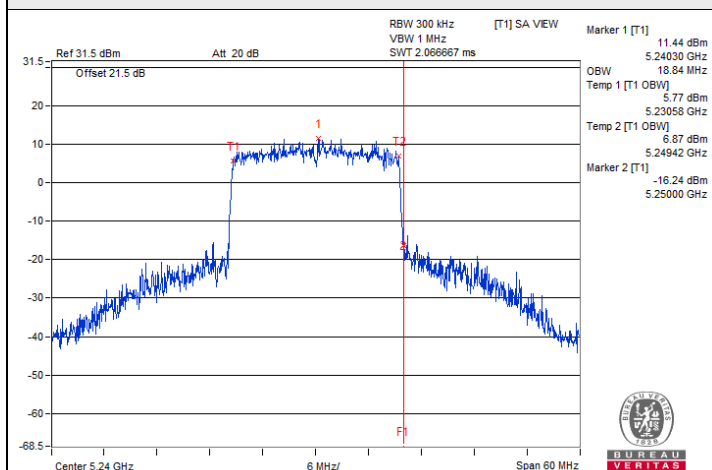


802.11be (EHT20) CDD / Chain 0 : CH 48

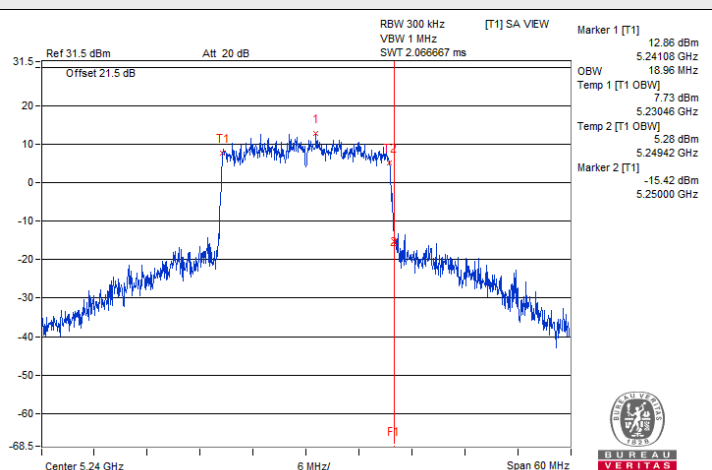


802.11be (EHT20) CDD / Chain 1 : CH 48

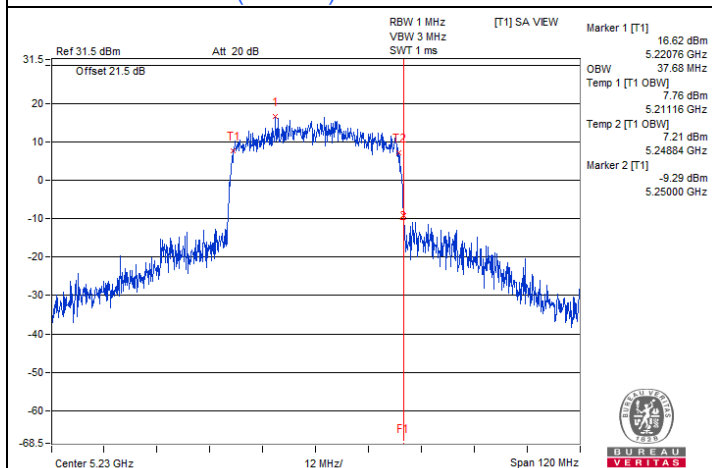
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



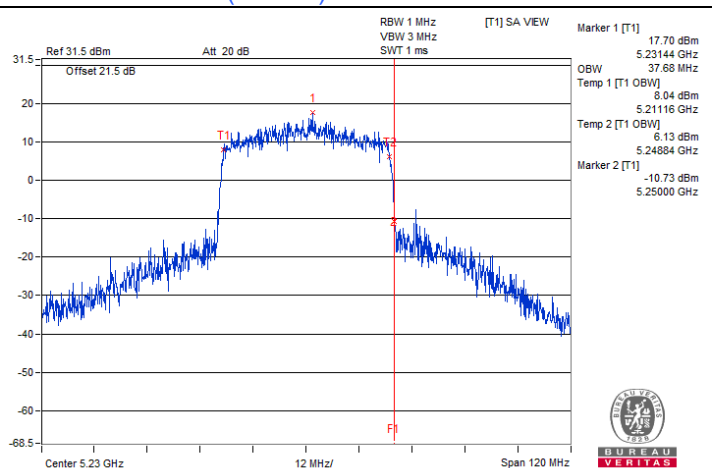
802.11be (EHT20) CDD / Chain 2 : CH 48



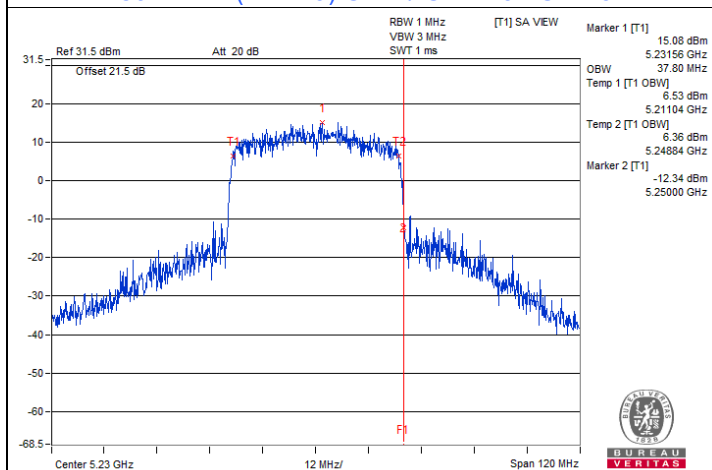
802.11be (EHT20) CDD / Chain 3 : CH 48



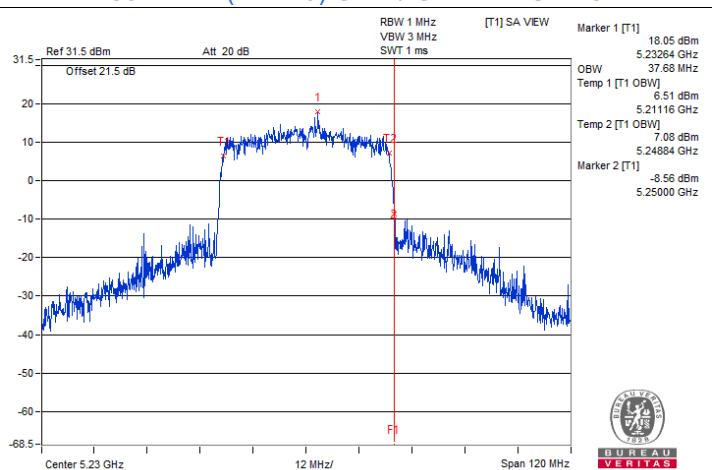
802.11be (EHT40) CDD / Chain 0 : CH 46



802.11be (EHT40) CDD / Chain 1 : CH 46

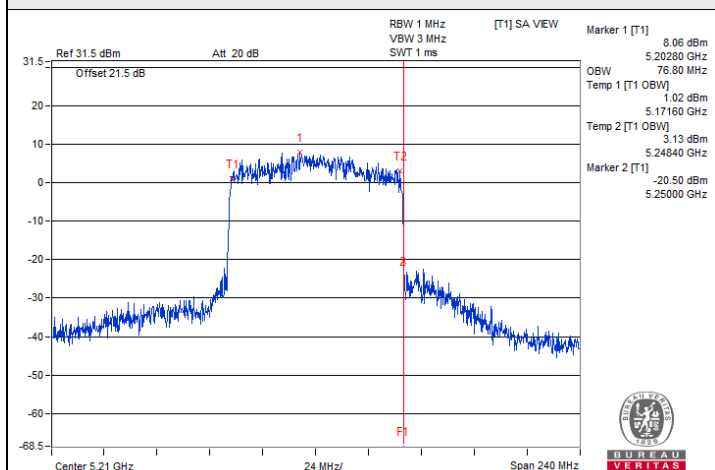


802.11be (EHT40) CDD / Chain 2 : CH 46

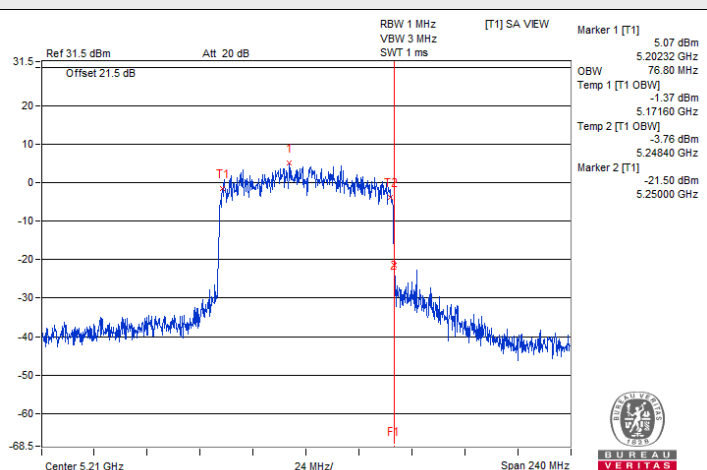


802.11be (EHT40) CDD / Chain 3 : CH 46

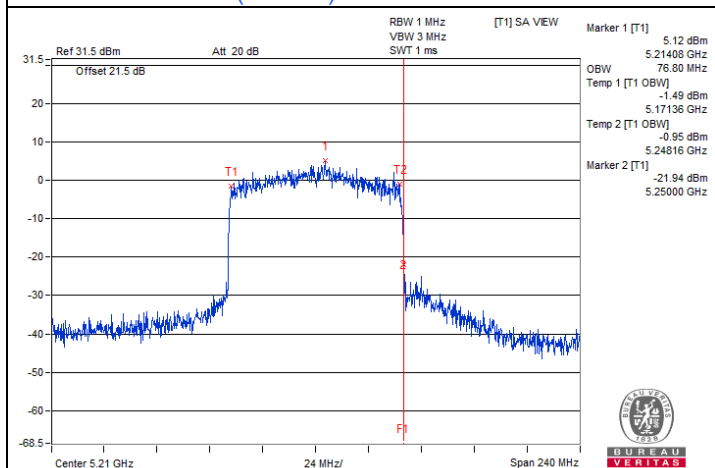
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



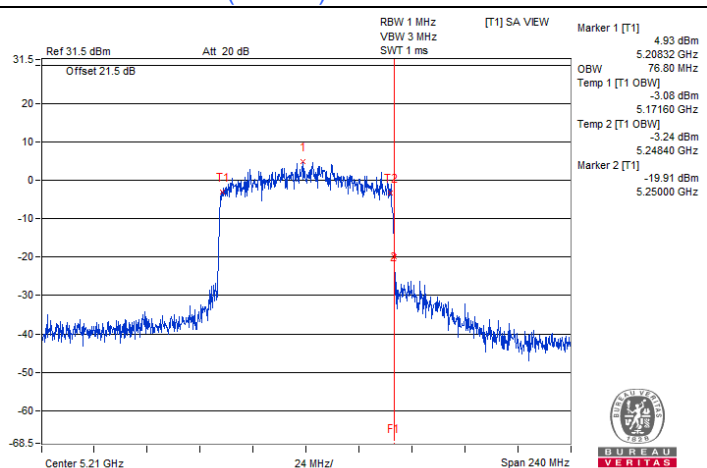
802.11be (EHT80) CDD / Chain 0 : CH 42



802.11be (EHT80) CDD / Chain 1 : CH 42

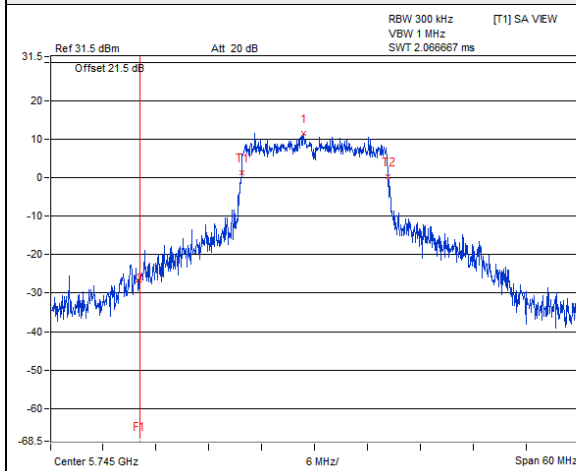


802.11be (EHT80) CDD / Chain 2 : CH 42

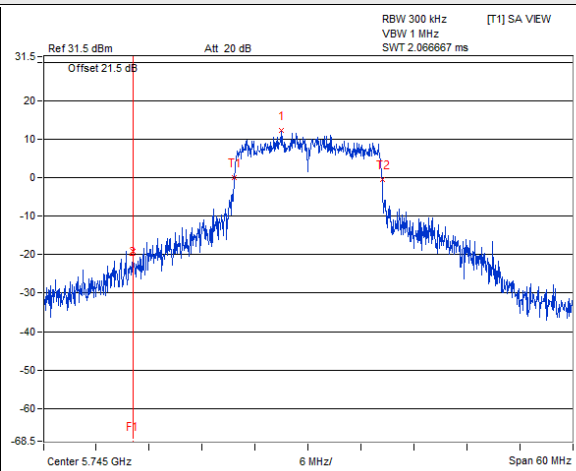


802.11be (EHT80) CDD / Chain 3 : CH 42

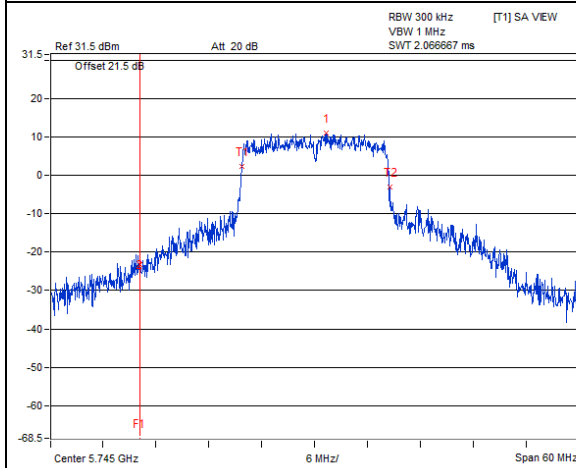
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



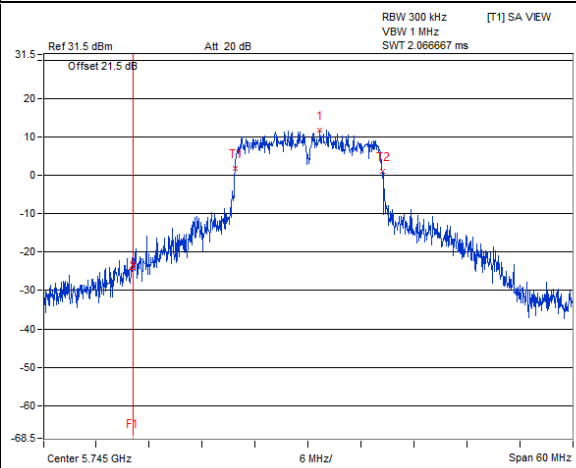
802.11a CDD / Chain 0 : CH 149



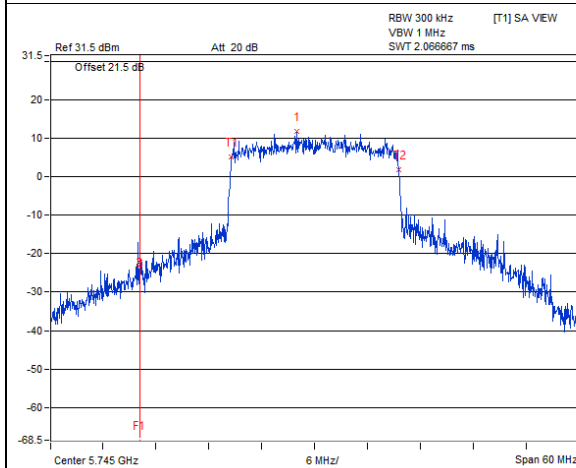
802.11a CDD / Chain 1 : CH 149



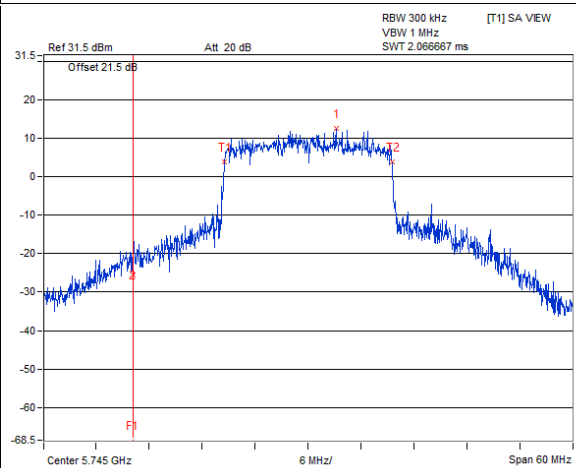
802.11a CDD / Chain 2 : CH 149



802.11a CDD / Chain 3 : CH 149

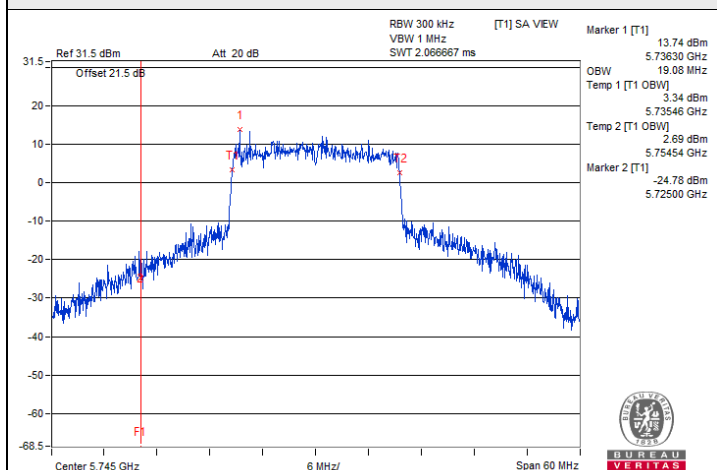


802.11be (EHT20) CDD / Chain 0 : CH 149

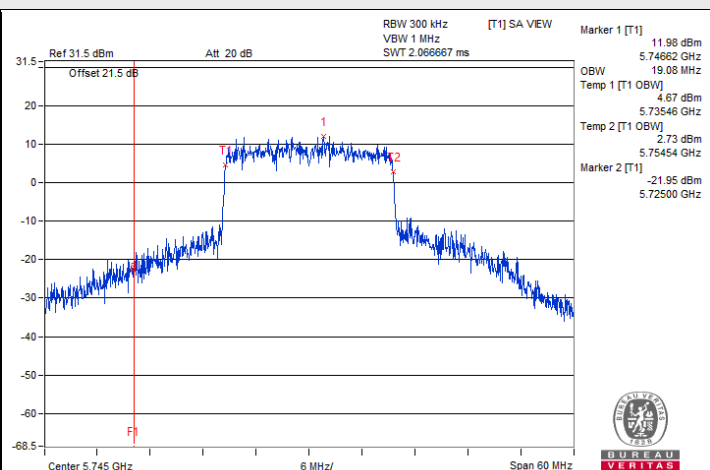


802.11be (EHT20) CDD / Chain 1 : CH 149

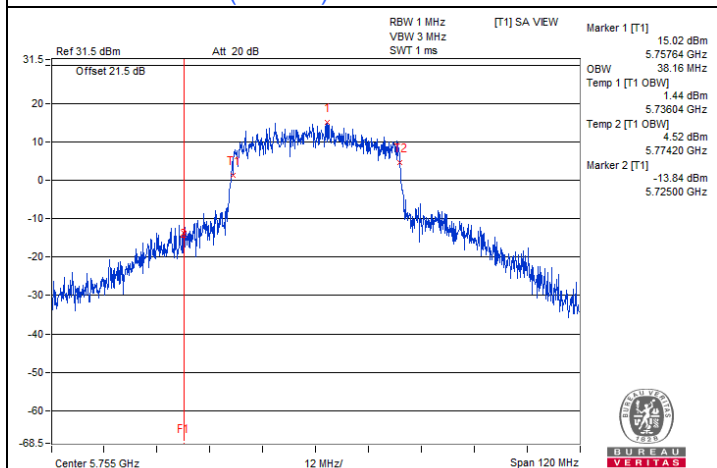
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



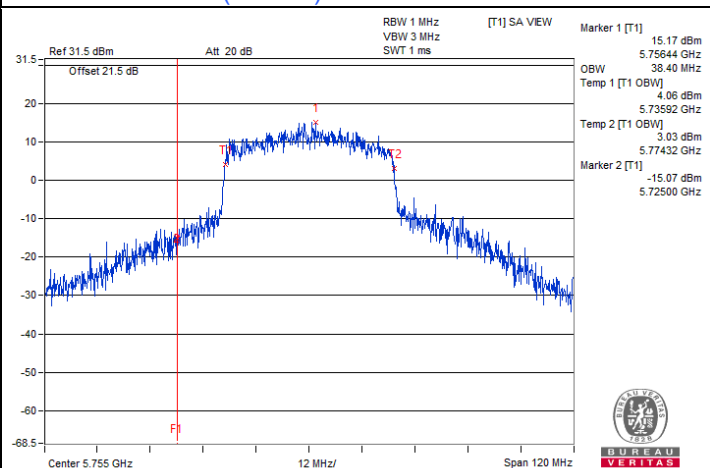
802.11be (EHT20) CDD / Chain 2 : CH 149



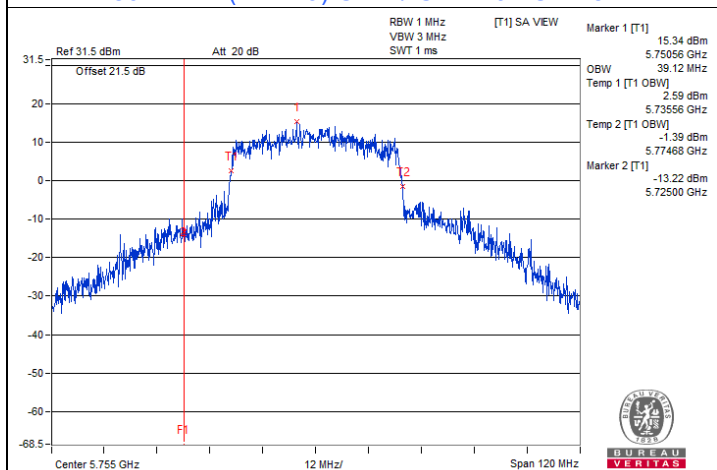
802.11be (EHT20) CDD / Chain 3 : CH 149



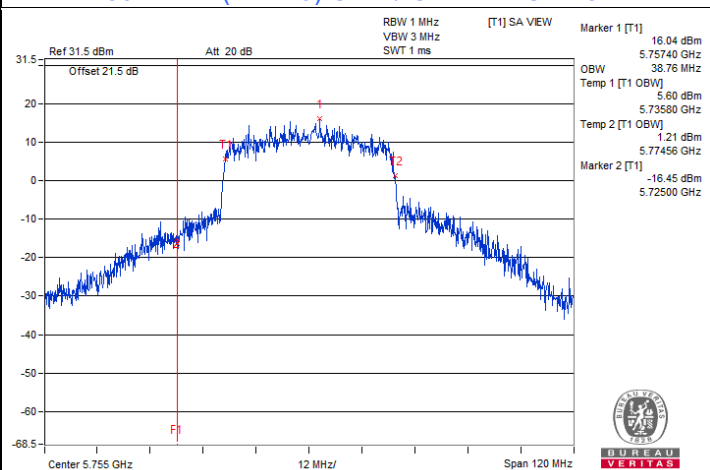
802.11be (EHT40) CDD / Chain 0 : CH 151



802.11be (EHT40) CDD / Chain 1 : CH 151

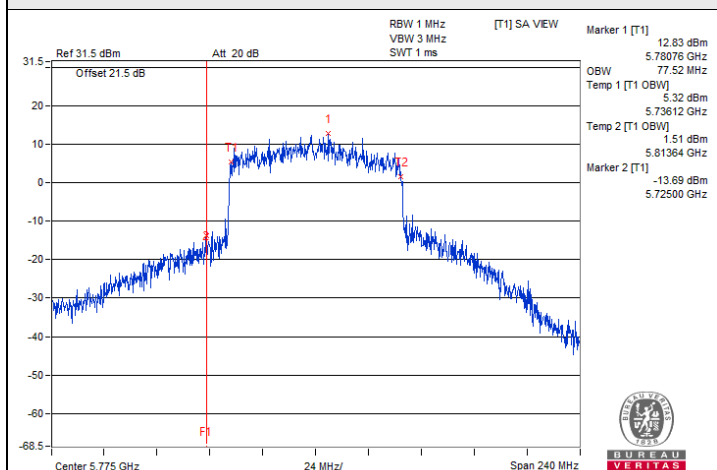


802.11be (EHT40) CDD / Chain 2 : CH 151

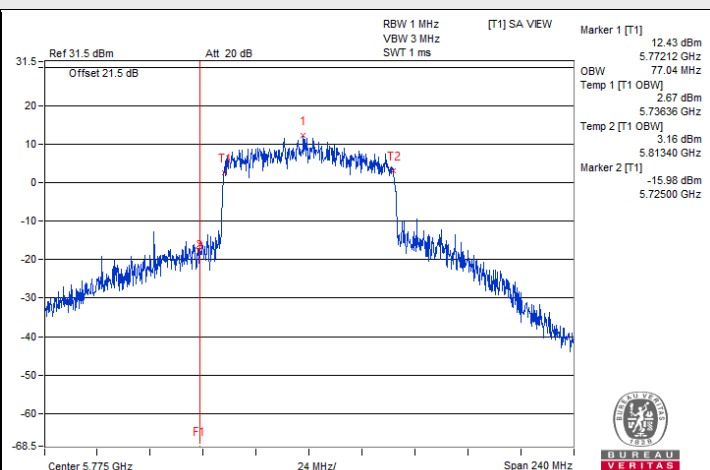


802.11be (EHT40) CDD / Chain 3 : CH 151

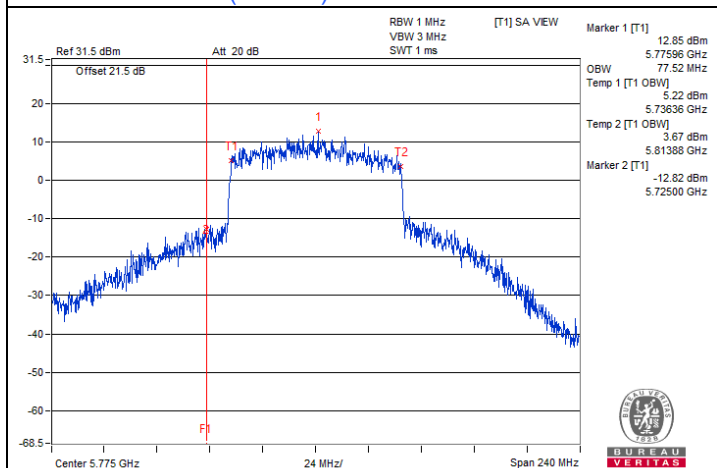
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



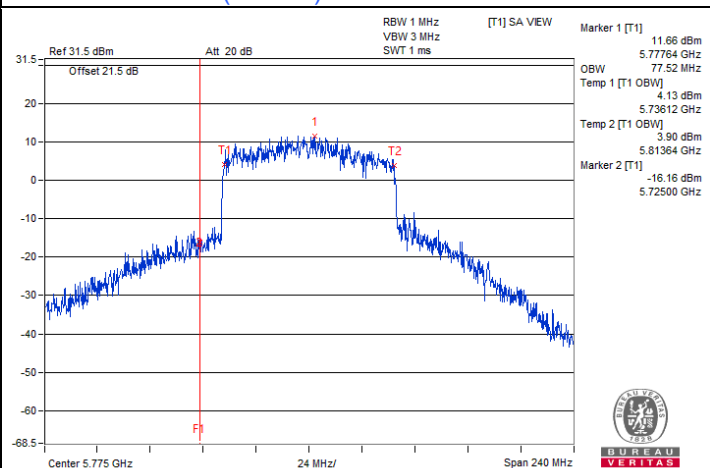
802.11be (EHT80) CDD / Chain 0 : CH 155



802.11be (EHT80) CDD / Chain 1 : CH 155



802.11be (EHT80) CDD / Chain 2 : CH 155



802.11be (EHT80) CDD / Chain 3 : CH 155

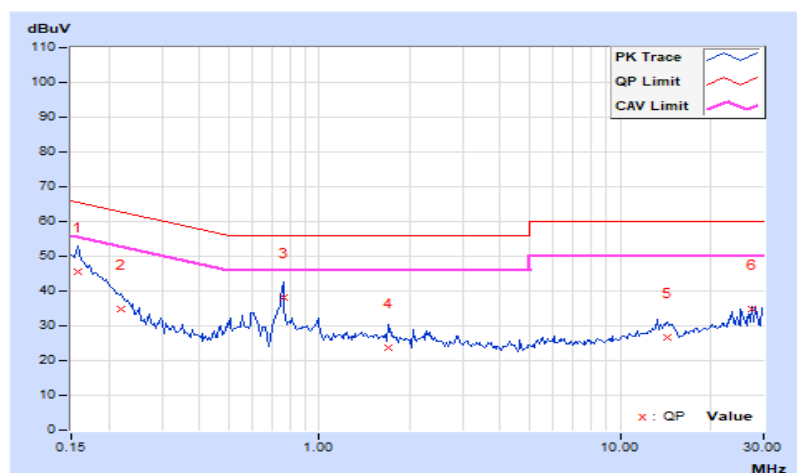
7.5 AC Power Conducted Emissions

RF Mode	802.11be (EHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	0.15781	10.00	35.71	20.30	45.71	30.30	65.58	55.58	-19.87	-25.28
2	0.22031	10.03	24.66	14.32	34.69	24.35	62.81	52.81	-28.12	-28.46
3	0.76328	10.07	28.24	27.45	38.31	37.52	56.00	46.00	-17.69	-8.48
4	1.70313	10.14	13.74	9.07	23.88	19.21	56.00	46.00	-32.12	-26.79
5	14.32031	10.89	15.68	10.80	26.57	21.69	60.00	50.00	-33.43	-28.31
6	27.43291	11.23	23.48	20.19	34.71	31.42	60.00	50.00	-25.29	-18.58

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

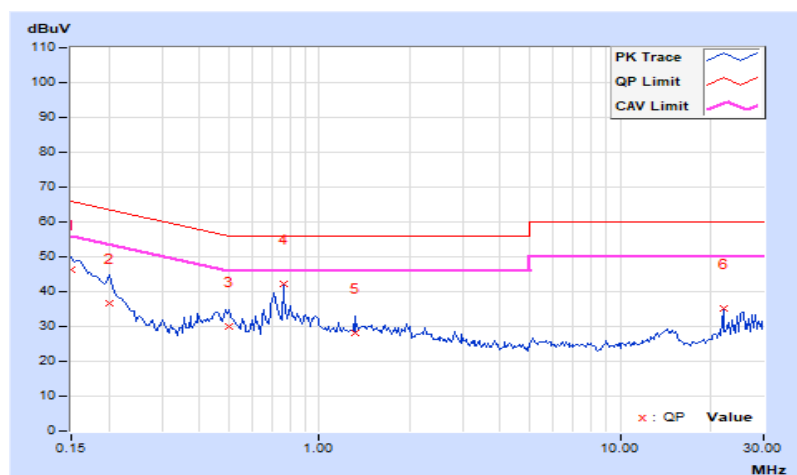


RF Mode	802.11be (EHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 76 % RH
Tested By	Andy Ho		

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	10.02	36.42	21.26	46.44	31.28	66.00	56.00	-19.56	-24.72
2	0.20078	10.03	26.75	15.17	36.78	25.20	63.58	53.58	-26.80	-28.38
3	0.50156	10.03	20.15	14.40	30.18	24.43	56.00	46.00	-25.82	-21.57
4	0.76203	10.06	32.09	31.20	42.15	41.26	56.00	46.00	-13.85	-4.74
5	1.31641	10.10	17.88	14.57	27.98	24.67	56.00	46.00	-28.02	-21.33
6	22.09766	11.01	24.17	22.16	35.18	33.17	60.00	50.00	-24.82	-16.83

Remarks:

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



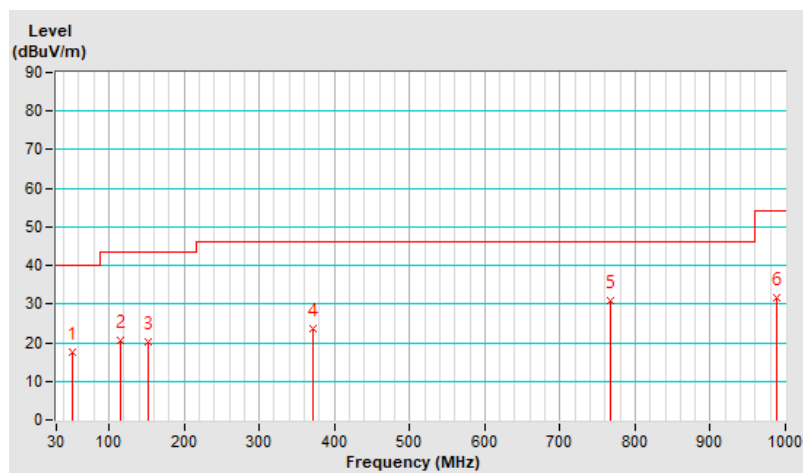
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11be (EHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 70 % RH
Tested By	Louis Yang		

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	51.41	17.4 QP	40.0	-22.6	4.00 H	294	29.9	-12.5
2	115.60	20.6 QP	43.5	-22.9	1.89 H	268	35.5	-14.9
3	151.53	20.3 QP	43.5	-23.2	1.00 H	284	32.6	-12.3
4	371.12	23.7 QP	46.0	-22.3	1.06 H	256	33.7	-10.0
5	767.72	31.0 QP	46.0	-15.0	3.81 H	0	32.5	-1.5
6	989.08	31.8 QP	54.0	-22.2	2.13 H	74	30.7	1.1

Remarks:

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

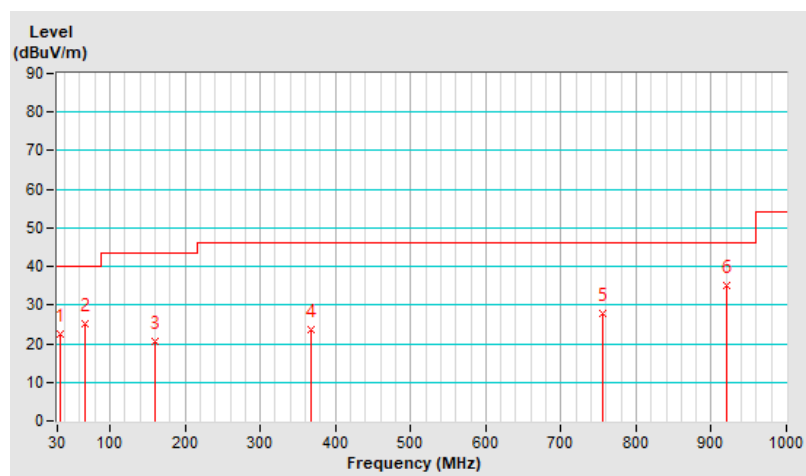


RF Mode	802.11be (EHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 70 % RH
Tested By	Louis Yang		

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	34.74	22.4 QP	40.0	-17.6	1.53 V	360	35.7	-13.3
2	66.44	25.1 QP	40.0	-14.9	2.23 V	200	39.1	-14.0
3	160.40	20.7 QP	43.5	-22.8	1.00 V	0	32.9	-12.2
4	366.61	23.6 QP	46.0	-22.4	1.00 V	345	33.7	-10.1
5	755.82	27.9 QP	46.0	-18.1	1.65 V	353	29.7	-1.8
6	920.98	35.2 QP	46.0	-10.8	2.00 V	190	34.5	0.7

Remarks:

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



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	1.83 H	272	62.2	2.7
2	5150.00	53.0 AV	54.0	-1.0	1.83 H	272	50.3	2.7
3	*5180.00	117.4 PK			1.83 H	272	114.8	2.6
4	*5180.00	107.8 AV			1.83 H	272	105.2	2.6
5	#10360.00	45.1 PK	68.2	-23.1	1.46 H	312	32.8	12.3
6	15540.00	44.8 PK	74.0	-29.2	1.55 H	218	32.9	11.9
7	15540.00	33.6 AV	54.0	-20.4	1.55 H	218	21.7	11.9
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	62.1 PK	74.0	-11.9	1.74 V	175	59.4	2.7
2	5150.00	51.5 AV	54.0	-2.5	1.74 V	175	48.8	2.7
3	*5180.00	117.8 PK			1.74 V	175	115.2	2.6
4	*5180.00	108.1 AV			1.74 V	175	105.5	2.6
5	#10360.00	45.9 PK	68.2	-22.3	1.50 V	1	33.6	12.3
6	15540.00	45.4 PK	74.0	-28.6	1.51 V	81	33.5	11.9
7	15540.00	33.7 AV	54.0	-20.3	1.51 V	81	21.8	11.9

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	117.8 PK			1.85 H	273	115.2	2.6
2	*5200.00	108.1 AV			1.85 H	273	105.5	2.6
3	#10400.00	45.4 PK	68.2	-22.8	1.48 H	322	33.0	12.4
4	15600.00	44.3 PK	74.0	-29.7	1.50 H	211	32.5	11.8
5	15600.00	33.2 AV	54.0	-20.8	1.50 H	211	21.4	11.8
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	*5200.00	118.1 PK			1.51 V	172	115.5	2.6
2	*5200.00	108.5 AV			1.51 V	172	105.9	2.6
3	#10400.00	45.9 PK	68.2	-22.3	1.49 V	9	33.5	12.4
4	15600.00	45.2 PK	74.0	-28.8	1.51 V	67	33.4	11.8
5	15600.00	33.4 AV	54.0	-20.6	1.51 V	67	21.6	11.8

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	116.5 PK			1.73 H	58	114.1	2.4
2	*5240.00	107.9 AV			1.73 H	58	105.5	2.4
3	5350.00	56.3 PK	74.0	-17.7	1.73 H	58	54.0	2.3
4	5350.00	46.3 AV	54.0	-7.7	1.73 H	58	44.0	2.3
5	#10480.00	44.9 PK	68.2	-23.3	1.46 H	320	32.5	12.4
6	15720.00	44.1 PK	74.0	-29.9	1.47 H	205	31.8	12.3
7	15720.00	33.6 AV	54.0	-20.4	1.47 H	205	21.3	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.6 PK			2.41 V	102	115.2	2.4
2	*5240.00	108.2 AV			2.41 V	102	105.8	2.4
3	5350.00	59.5 PK	74.0	-14.5	2.41 V	102	57.2	2.3
4	5350.00	45.2 AV	54.0	-8.8	2.41 V	102	42.9	2.3
5	#10480.00	45.5 PK	68.2	-22.7	1.54 V	2	33.1	12.4
6	15720.00	45.4 PK	74.0	-28.6	1.56 V	63	33.1	12.3
7	15720.00	33.8 AV	54.0	-20.2	1.56 V	63	21.5	12.3

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.13	57.5 PK	68.2	-10.7	1.74 H	132	55.1	2.4
2	*5745.00	116.5 PK			1.74 H	132	113.8	2.7
3	*5745.00	105.8 AV			1.74 H	132	103.1	2.7
4	#5935.59	50.4 PK	68.2	-17.8	1.74 H	132	47.3	3.1
5	11490.00	47.2 PK	74.0	-26.8	1.34 H	261	34.1	13.1
6	11490.00	35.7 AV	54.0	-18.3	1.34 H	261	22.6	13.1
7	#17235.00	47.6 PK	68.2	-20.6	1.49 H	202	30.3	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.77	57.9 PK	68.2	-10.3	1.50 V	95	55.5	2.4
2	*5745.00	117.2 PK			1.50 V	95	114.5	2.7
3	*5745.00	106.1 AV			1.50 V	95	103.4	2.7
4	#5952.37	49.6 PK	68.2	-18.6	1.50 V	95	46.6	3.0
5	11490.00	47.4 PK	74.0	-26.6	1.55 V	296	34.3	13.1
6	11490.00	36.8 AV	54.0	-17.2	1.55 V	296	23.7	13.1
7	#17235.00	48.6 PK	68.2	-19.6	3.91 V	271	31.3	17.3

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	#5632.78	55.3 PK	68.2	-12.9	1.67 H	136	52.9	2.4
2	*5785.00	117.0 PK			1.67 H	136	114.2	2.8
3	*5785.00	106.9 AV			1.67 H	136	104.1	2.8
4	#5961.08	49.1 PK	68.2	-19.1	1.67 H	136	46.2	2.9
5	11570.00	47.2 PK	74.0	-26.8	1.39 H	266	34.0	13.2
6	11570.00	35.8 AV	54.0	-18.2	1.39 H	266	22.6	13.2
7	#17355.00	48.0 PK	68.2	-20.2	1.43 H	204	29.9	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.25	55.7 PK	68.2	-12.5	1.49 V	66	53.3	2.4
2	*5785.00	117.4 PK			1.49 V	66	114.6	2.8
3	*5785.00	107.4 AV			1.49 V	66	104.6	2.8
4	#5925.19	49.2 PK	68.2	-19.0	1.49 V	66	46.1	3.1
5	11570.00	47.4 PK	74.0	-26.6	1.56 V	298	34.2	13.2
6	11570.00	36.6 AV	54.0	-17.4	1.56 V	298	23.4	13.2
7	#17355.00	48.2 PK	68.2	-20.0	3.96 V	262	30.1	18.1

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.40	55.9 PK	68.2	-12.3	1.80 H	143	53.5	2.4
2	*5825.00	117.8 PK			1.80 H	143	114.8	3.0
3	*5825.00	107.2 AV			1.80 H	143	104.2	3.0
4	#5959.31	49.4 PK	68.2	-18.8	1.80 H	143	46.4	3.0
5	11650.00	47.2 PK	74.0	-26.8	1.43 H	277	34.3	12.9
6	11650.00	36.8 AV	54.0	-17.2	1.43 H	277	23.9	12.9
7	#17475.00	47.6 PK	68.2	-20.6	1.40 H	198	28.5	19.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.54	66.2 PK	68.2	-2.0	1.51 V	100	63.8	2.4
2	*5825.00	118.4 PK			1.51 V	100	115.4	3.0
3	*5825.00	108.1 AV			1.51 V	100	105.1	3.0
4	#5943.24	50.0 PK	68.2	-18.2	1.51 V	100	46.9	3.1
5	11650.00	47.5 PK	74.0	-26.5	1.61 V	284	34.6	12.9
6	11650.00	37.0 AV	54.0	-17.0	1.61 V	284	24.1	12.9
7	#17475.00	48.3 PK	68.2	-19.9	4.00 V	274	29.2	19.1

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	54.0 PK	74.0	-20.0	1.95 H	230	51.3	2.7
2	5150.00	42.0 AV	54.0	-12.0	1.95 H	230	39.3	2.7
3	*5180.00	105.0 PK			1.95 H	230	102.4	2.6
4	*5180.00	98.2 AV			1.95 H	230	95.6	2.6
5	#10360.00	44.9 PK	68.2	-23.3	1.48 H	270	32.6	12.3
6	15540.00	45.2 PK	74.0	-28.8	1.38 H	209	33.3	11.9
7	15540.00	33.4 AV	54.0	-20.6	1.38 H	209	21.5	11.9
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	65.0 PK	74.0	-9.0	1.69 V	99	62.3	2.7
2	5150.00	53.9 AV	54.0	-0.1	1.69 V	99	51.2	2.7
3	*5180.00	116.3 PK			1.69 V	99	113.7	2.6
4	*5180.00	107.3 AV			1.69 V	99	104.7	2.6
5	#10360.00	45.8 PK	68.2	-22.4	1.44 V	10	33.5	12.3
6	15540.00	45.4 PK	74.0	-28.6	1.52 V	74	33.5	11.9
7	15540.00	33.9 AV	54.0	-20.1	1.52 V	74	22.0	11.9

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	802.11be (EHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	53.8 PK	74.0	-20.2	1.48 H	65	51.1	2.7
2	5150.00	42.5 AV	54.0	-11.5	1.48 H	65	39.8	2.7
3	*5200.00	116.4 PK			1.48 H	65	113.8	2.6
4	*5200.00	107.6 AV			1.48 H	65	105.0	2.6
5	#10400.00	45.2 PK	68.2	-23.0	1.45 H	266	32.8	12.4
6	15600.00	45.4 PK	74.0	-28.6	1.39 H	219	33.6	11.8
7	15600.00	33.8 AV	54.0	-20.2	1.39 H	219	22.0	11.8
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	68.3 PK	74.0	-5.7	1.49 V	66	65.6	2.7
2	5150.00	53.6 AV	54.0	-0.4	1.49 V	66	50.9	2.7
3	*5200.00	115.9 PK			1.49 V	66	113.3	2.6
4	*5200.00	108.8 AV			1.49 V	66	106.2	2.6
5	#10400.00	45.9 PK	68.2	-22.3	1.51 V	2	33.5	12.4
6	15600.00	45.7 PK	74.0	-28.3	1.52 V	75	33.9	11.8
7	15600.00	34.2 AV	54.0	-19.8	1.52 V	75	22.4	11.8

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	802.11be (EHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	116.1 PK			1.45 H	55	113.7	2.4
2	*5240.00	107.4 AV			1.45 H	55	105.0	2.4
3	5350.00	56.8 PK	74.0	-17.2	1.45 H	55	54.5	2.3
4	5350.00	42.9 AV	54.0	-11.1	1.45 H	55	40.6	2.3
5	#10480.00	45.4 PK	68.2	-22.8	1.39 H	253	33.0	12.4
6	15720.00	43.8 PK	74.0	-30.2	1.33 H	215	31.5	12.3
7	15720.00	33.1 AV	54.0	-20.9	1.33 H	215	20.8	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.6 PK			2.09 V	170	115.2	2.4
2	*5240.00	108.6 AV			2.09 V	170	106.2	2.4
3	5350.00	56.1 PK	74.0	-17.9	2.09 V	170	53.8	2.3
4	5350.00	45.6 AV	54.0	-8.4	2.09 V	170	43.3	2.3
5	#10480.00	46.3 PK	68.2	-21.9	1.56 V	7	33.9	12.4
6	15720.00	44.7 PK	74.0	-29.3	1.48 V	94	32.4	12.3
7	15720.00	33.2 AV	54.0	-20.8	1.48 V	94	20.9	12.3

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.88	57.0 PK	68.2	-11.2	1.00 H	78	54.6	2.4
2	*5745.00	118.1 PK			1.00 H	78	115.4	2.7
3	*5745.00	107.3 AV			1.00 H	78	104.6	2.7
4	#5964.46	50.1 PK	68.2	-18.1	1.00 H	78	47.2	2.9
5	11490.00	47.4 PK	74.0	-26.6	1.44 H	247	34.3	13.1
6	11490.00	36.5 AV	54.0	-17.5	1.44 H	247	23.4	13.1
7	#17235.00	48.3 PK	68.2	-19.9	1.26 H	217	31.0	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.42	60.1 PK	68.2	-8.1	1.48 V	78	57.7	2.4
2	*5745.00	117.1 PK			1.48 V	78	114.4	2.7
3	*5745.00	107.8 AV			1.48 V	78	105.1	2.7
4	#5927.78	49.5 PK	68.2	-18.7	1.48 V	78	46.4	3.1
5	11490.00	47.7 PK	74.0	-26.3	1.60 V	299	34.6	13.1
6	11490.00	37.0 AV	54.0	-17.0	1.60 V	299	23.9	13.1
7	#17235.00	48.5 PK	68.2	-19.7	3.96 V	284	31.2	17.3

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	#5627.57	56.5 PK	68.2	-11.7	1.72 H	133	54.1	2.4
2	*5785.00	117.0 PK			1.72 H	133	114.2	2.8
3	*5785.00	107.9 AV			1.72 H	133	105.1	2.8
4	#5945.63	50.0 PK	68.2	-18.2	1.72 H	133	46.9	3.1
5	11570.00	47.5 PK	74.0	-26.5	1.45 H	245	34.3	13.2
6	11570.00	37.2 AV	54.0	-16.8	1.45 H	245	24.0	13.2
7	#17355.00	47.6 PK	68.2	-20.6	1.30 H	211	29.5	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.63	56.9 PK	68.2	-11.3	1.51 V	71	54.5	2.4
2	*5785.00	117.6 PK			1.51 V	71	114.8	2.8
3	*5785.00	108.1 AV			1.51 V	71	105.3	2.8
4	#5946.86	50.3 PK	68.2	-17.9	1.51 V	71	47.3	3.0
5	11570.00	47.8 PK	74.0	-26.2	1.55 V	309	34.6	13.2
6	11570.00	37.3 AV	54.0	-16.7	1.55 V	309	24.1	13.2
7	#17355.00	48.3 PK	68.2	-19.9	3.90 V	269	30.2	18.1

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.21	58.1 PK	68.2	-10.1	1.52 H	90	55.7	2.4
2	*5825.00	117.5 PK			1.52 H	90	114.5	3.0
3	*5825.00	108.9 AV			1.52 H	90	105.9	3.0
4	#5961.86	50.0 PK	68.2	-18.2	1.52 H	90	47.1	2.9
5	11650.00	46.9 PK	74.0	-27.1	1.40 H	237	34.0	12.9
6	11650.00	35.7 AV	54.0	-18.3	1.40 H	237	22.8	12.9
7	#17475.00	48.0 PK	68.2	-20.2	1.34 H	223	28.9	19.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.09	58.2 PK	68.2	-10.0	1.51 V	190	55.8	2.4
2	*5825.00	117.6 PK			1.51 V	190	114.6	3.0
3	*5825.00	109.3 AV			1.51 V	190	106.3	3.0
4	#5935.66	50.4 PK	68.2	-17.8	1.51 V	190	47.3	3.1
5	11650.00	47.4 PK	74.0	-26.6	1.55 V	294	34.5	12.9
6	11650.00	36.6 AV	54.0	-17.4	1.55 V	294	23.7	12.9
7	#17475.00	48.3 PK	68.2	-19.9	3.88 V	262	29.2	19.1

Remarks:

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

RF Mode	802.11be (EHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	60.6 PK	74.0	-13.4	1.46 H	58	57.9	2.7
2	5150.00	50.8 AV	54.0	-3.2	1.46 H	58	48.1	2.7
3	*5190.00	111.7 PK			1.46 H	58	109.1	2.6
4	*5190.00	102.5 AV			1.46 H	58	99.9	2.6
5	#10380.00	45.8 PK	68.2	-22.4	1.36 H	227	33.5	12.3
6	15570.00	45.2 PK	74.0	-28.8	1.39 H	220	33.4	11.8
7	15570.00	33.4 AV	54.0	-20.6	1.39 H	220	21.6	11.8
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	65.4 PK	74.0	-8.6	1.51 V	100	62.7	2.7
2	5150.00	53.6 AV	54.0	-0.4	1.51 V	100	50.9	2.7
3	*5190.00	113.8 PK			1.51 V	100	111.2	2.6
4	*5190.00	103.9 AV			1.51 V	100	101.3	2.6
5	#10380.00	46.2 PK	68.2	-22.0	1.47 V	16	33.9	12.3
6	15570.00	45.4 PK	74.0	-28.6	1.57 V	60	33.6	11.8
7	15570.00	33.7 AV	54.0	-20.3	1.57 V	60	21.9	11.8

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	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	114.4 PK			1.81 H	68	112.0	2.4
2	*5230.00	106.1 AV			1.81 H	68	103.7	2.4
3	5350.00	65.1 PK	74.0	-8.9	1.81 H	68	62.8	2.3
4	5350.00	51.6 AV	54.0	-2.4	1.81 H	68	49.3	2.3
5	#10460.00	45.2 PK	68.2	-23.0	1.35 H	241	32.8	12.4
6	15690.00	44.9 PK	74.0	-29.1	1.44 H	225	32.5	12.4
7	15690.00	33.6 AV	54.0	-20.4	1.44 H	225	21.2	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	116.9 PK			1.51 V	101	114.5	2.4
2	*5230.00	107.3 AV			1.51 V	101	104.9	2.4
3	5350.00	66.4 PK	74.0	-7.6	1.51 V	101	64.1	2.3
4	5350.00	53.0 AV	54.0	-1.0	1.51 V	101	50.7	2.3
5	#10460.00	45.7 PK	68.2	-22.5	1.46 V	12	33.3	12.4
6	15690.00	45.0 PK	74.0	-29.0	1.50 V	83	32.6	12.4
7	15690.00	33.8 AV	54.0	-20.2	1.50 V	83	21.4	12.4

Remarks:

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

RF Mode	802.11be (EHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.88	66.8 PK	68.2	-1.4	1.79 H	36	64.4	2.4
2	*5755.00	118.6 PK			1.79 H	36	115.9	2.7
3	*5755.00	109.2 AV			1.79 H	36	106.5	2.7
4	#5933.48	48.1 PK	68.2	-20.1	1.79 H	36	45.0	3.1
5	11510.00	47.5 PK	74.0	-26.5	1.37 H	204	34.3	13.2
6	11510.00	35.4 AV	54.0	-18.6	1.37 H	204	22.2	13.2
7	#17265.00	44.9 PK	68.2	-23.3	1.40 H	225	27.4	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.88	68.1 PK	68.2	-0.1	1.49 V	265	65.7	2.4
2	*5755.00	119.7 PK			1.49 V	265	117.0	2.7
3	*5755.00	109.8 AV			1.49 V	265	107.1	2.7
4	#5933.48	49.4 PK	68.2	-18.8	1.49 V	265	46.3	3.1
5	11510.00	48.6 PK	74.0	-25.4	3.93 V	94	35.4	13.2
6	11510.00	36.2 AV	54.0	-17.8	3.93 V	94	23.0	13.2
7	#17265.00	45.4 PK	68.2	-22.8	1.42 V	323	27.9	17.5

Remarks:

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

RF Mode	802.11be (EHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.56	58.4 PK	68.2	-9.8	1.75 H	47	56.0	2.4
2	*5795.00	117.1 PK			1.75 H	47	114.1	3.0
3	*5795.00	108.1 AV			1.75 H	47	105.1	3.0
4	#5928.21	47.5 PK	68.2	-20.7	1.75 H	47	44.4	3.1
5	11590.00	48.1 PK	74.0	-25.9	1.35 H	195	35.0	13.1
6	11590.00	35.2 AV	54.0	-18.8	1.35 H	195	22.1	13.1
7	#17385.00	44.6 PK	68.2	-23.6	1.35 H	232	26.2	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.56	59.7 PK	68.2	-8.5	1.46 V	265	57.3	2.4
2	*5795.00	117.8 PK			1.46 V	265	114.8	3.0
3	*5795.00	108.6 AV			1.46 V	265	105.6	3.0
4	#5928.21	48.9 PK	68.2	-19.3	1.46 V	265	45.8	3.1
5	11590.00	48.8 PK	74.0	-25.2	3.98 V	95	35.7	13.1
6	11590.00	36.2 AV	54.0	-17.8	3.98 V	95	23.1	13.1
7	#17385.00	45.2 PK	68.2	-23.0	1.37 V	322	26.8	18.4

Remarks:

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

RF Mode	802.11be (EHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

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	63.2 PK	74.0	-10.8	1.80 H	32	60.5	2.7
2	5150.00	50.6 AV	54.0	-3.4	1.80 H	32	47.9	2.7
3	*5210.00	105.9 PK			1.80 H	32	103.4	2.5
4	*5210.00	94.8 AV			1.80 H	32	92.3	2.5
5	#10420.00	45.2 PK	68.2	-23.0	1.35 H	191	32.8	12.4
6	15630.00	45.9 PK	74.0	-28.1	1.43 H	214	33.9	12.0
7	15630.00	33.6 AV	54.0	-20.4	1.43 H	214	21.6	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.1 PK	74.0	-8.9	1.49 V	167	62.4	2.7
2	5150.00	53.4 AV	54.0	-0.6	1.49 V	167	50.7	2.7
3	*5210.00	106.9 PK			1.49 V	167	104.4	2.5
4	*5210.00	96.1 AV			1.49 V	167	93.6	2.5
5	#10420.00	46.3 PK	68.2	-21.9	1.46 V	11	33.9	12.4
6	15630.00	46.1 PK	74.0	-27.9	1.55 V	69	34.1	12.0
7	15630.00	34.2 AV	54.0	-19.8	1.55 V	69	22.2	12.0

Remarks:

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

RF Mode	802.11be (EHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 75 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.10	66.4 PK	68.2	-1.8	1.79 H	5	64.0	2.4
2	*5775.00	112.9 PK			1.79 H	5	110.1	2.8
3	*5775.00	102.1 AV			1.79 H	5	99.3	2.8
4	#5927.90	48.1 PK	68.2	-20.1	1.79 H	5	45.0	3.1
5	11550.00	47.0 PK	74.0	-27.0	1.44 H	201	33.9	13.1
6	11550.00	33.9 AV	54.0	-20.1	1.44 H	201	20.8	13.1
7	#17325.00	44.6 PK	68.2	-23.6	1.32 H	167	26.7	17.9
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	#5648.10	67.5 PK	68.2	-0.7	1.80 V	88	65.1	2.4
2	*5775.00	114.9 PK			1.80 V	88	112.1	2.8
3	*5775.00	104.1 AV			1.80 V	88	101.3	2.8
4	#5927.90	49.4 PK	68.2	-18.8	1.80 V	88	46.3	3.1
5	11550.00	47.8 PK	74.0	-26.2	1.44 V	13	34.7	13.1
6	11550.00	35.3 AV	54.0	-18.7	1.44 V	13	22.2	13.1
7	#17325.00	45.0 PK	68.2	-23.2	1.54 V	89	27.1	17.9

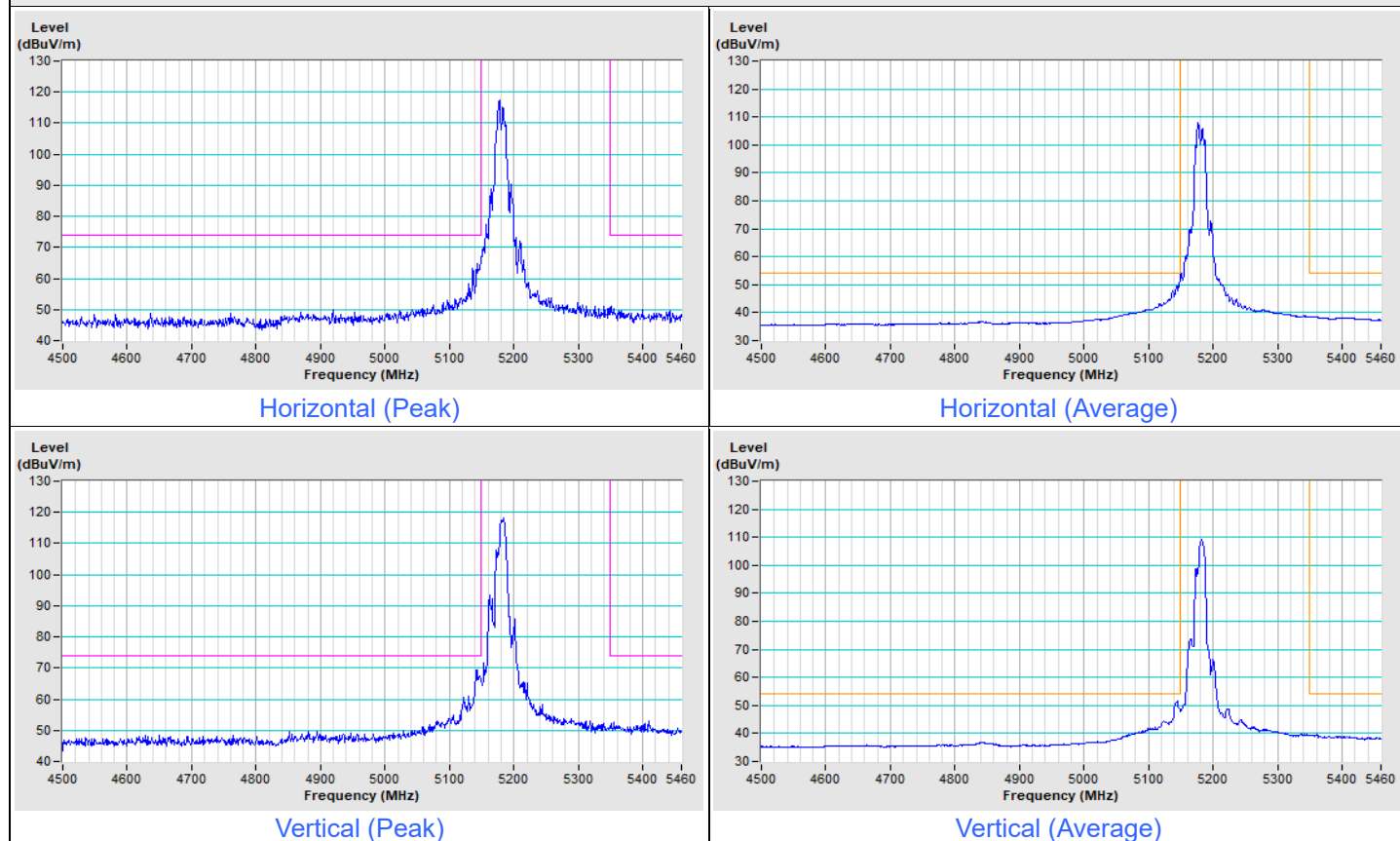
Remarks:

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.

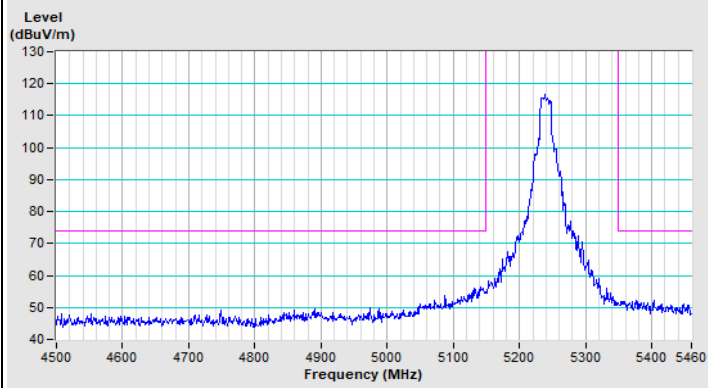
Plot of Band Edge

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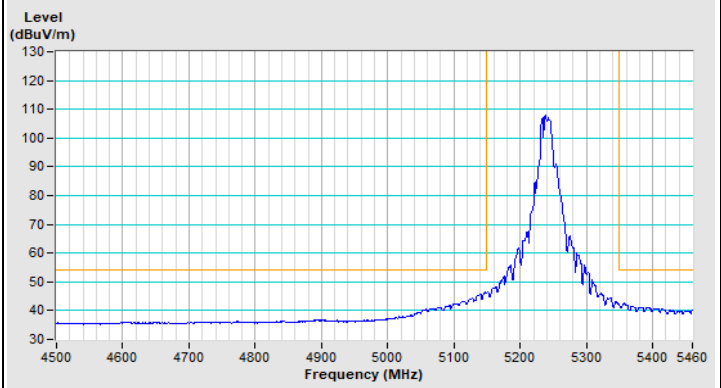
802.11a Channel 36



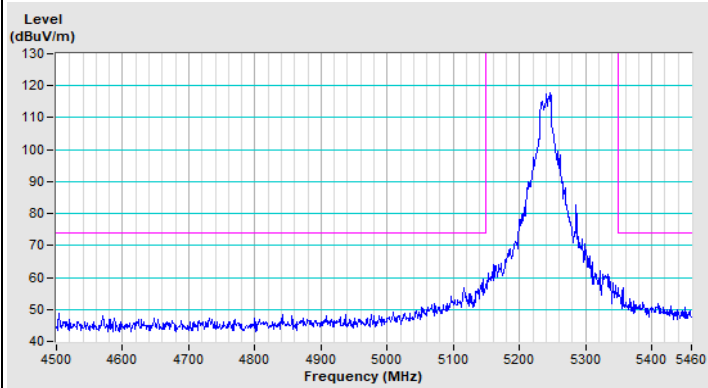
802.11a Channel 48



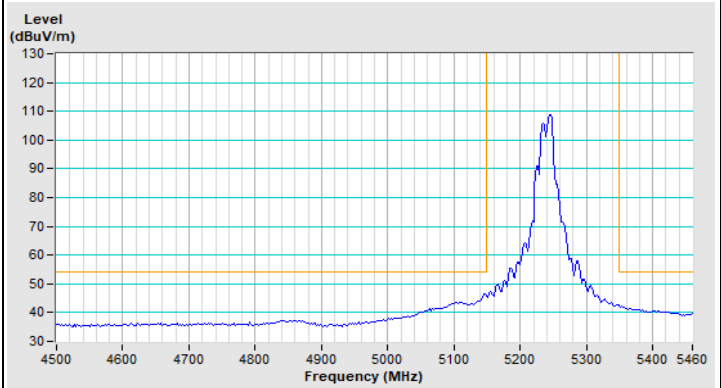
Horizontal (Peak)



Horizontal (Average)



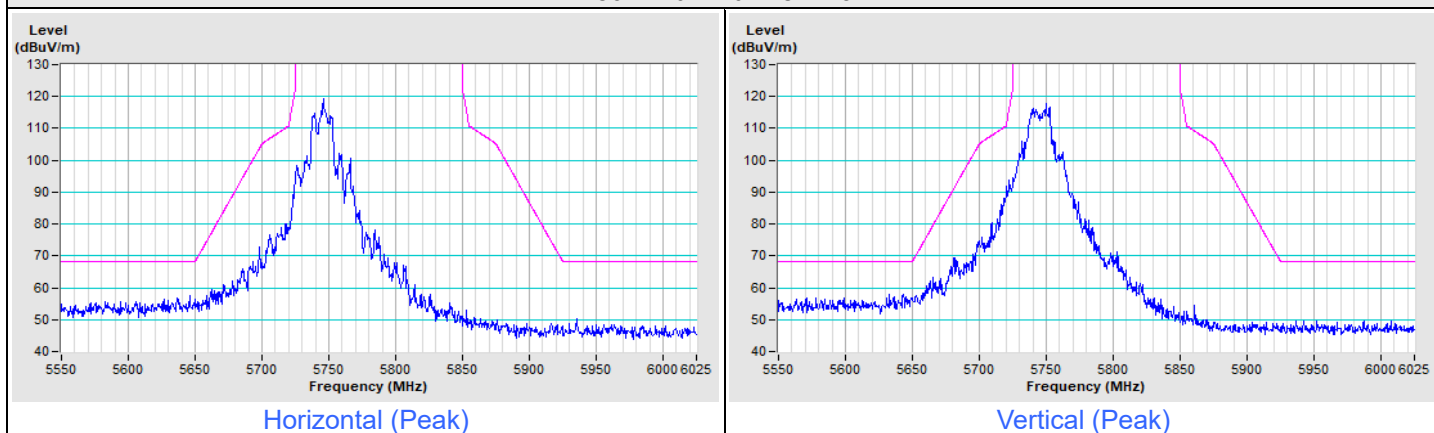
Vertical (Peak)



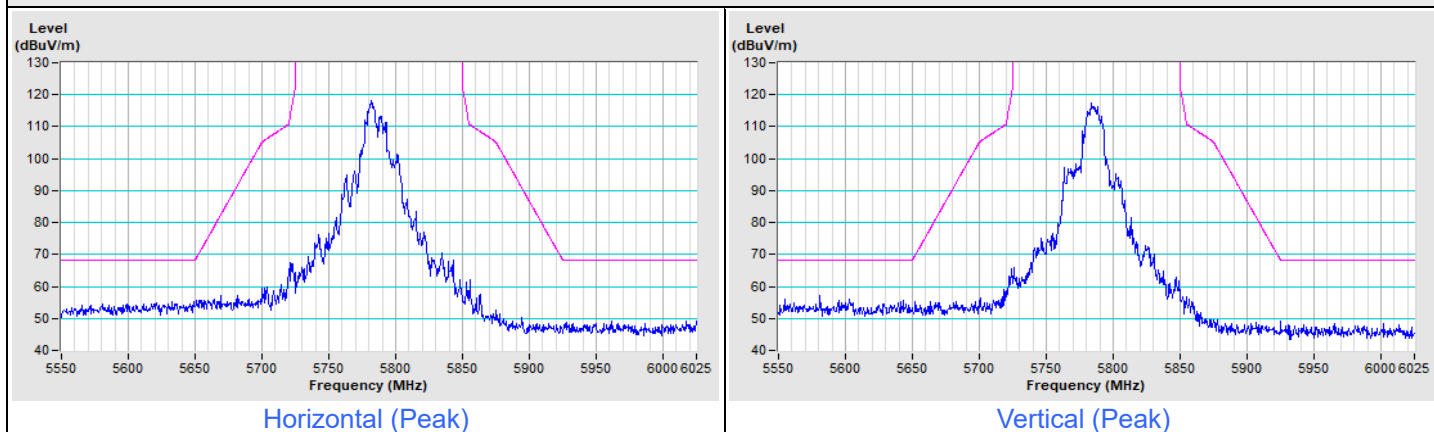
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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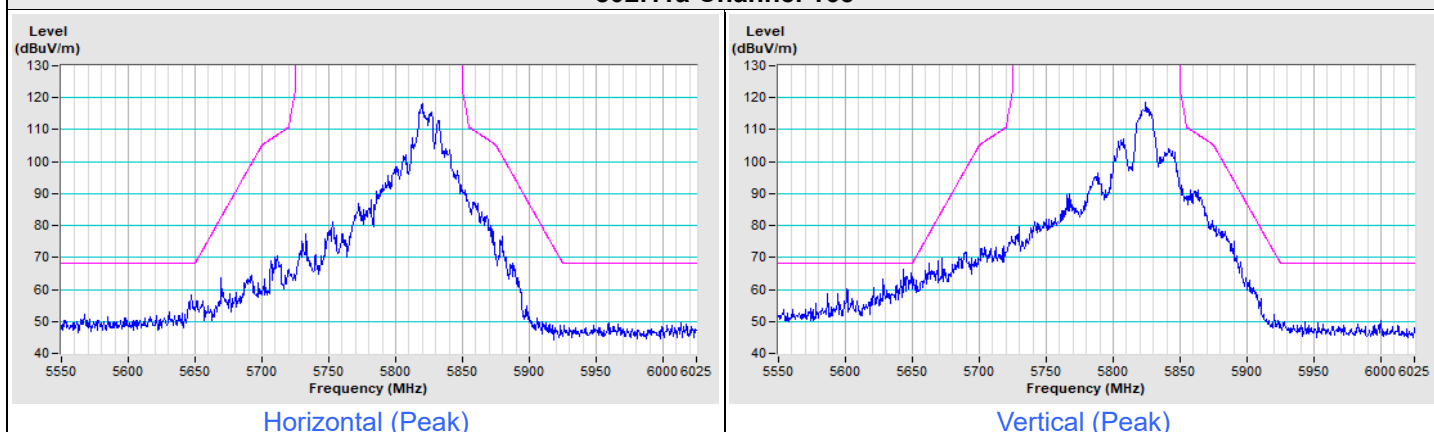
802.11a Channel 149



802.11a Channel 157

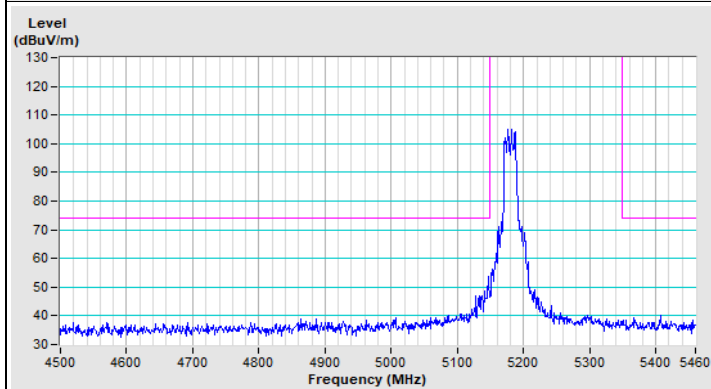


802.11a Channel 165

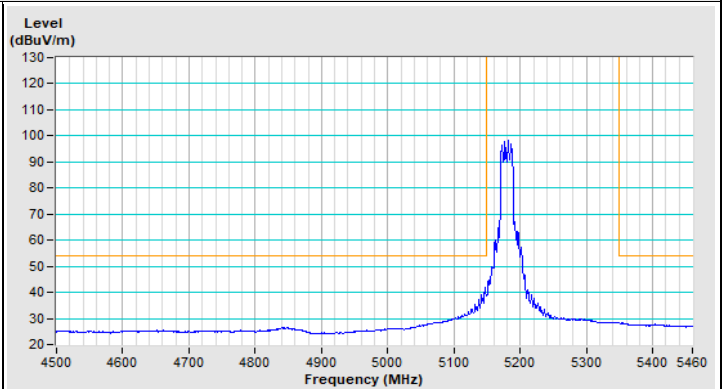


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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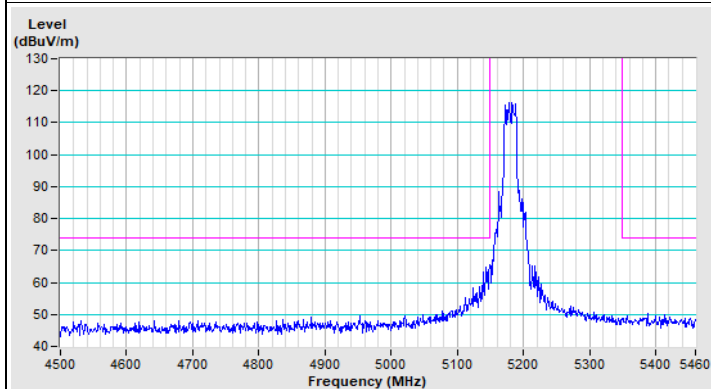
802.11be (EHT20) Channel 36



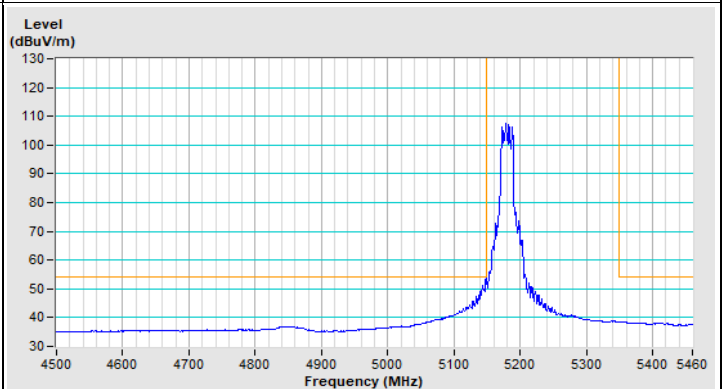
Horizontal (Peak)



Horizontal (Average)

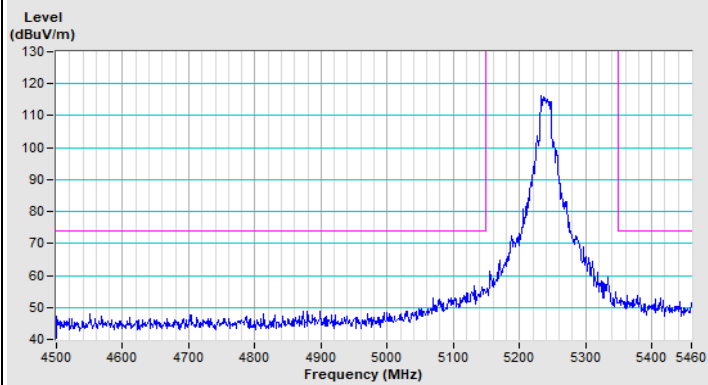


Vertical (Peak)

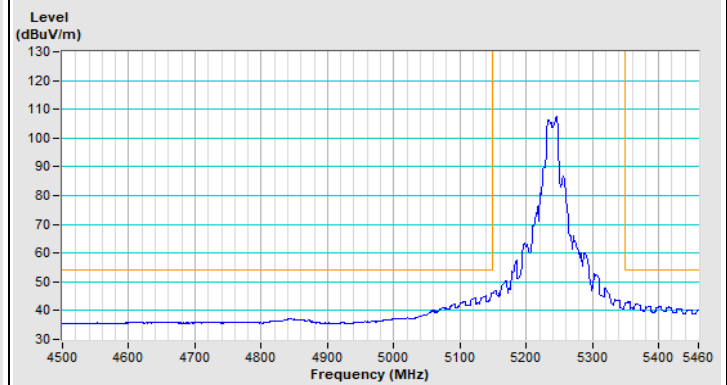


Vertical (Average)

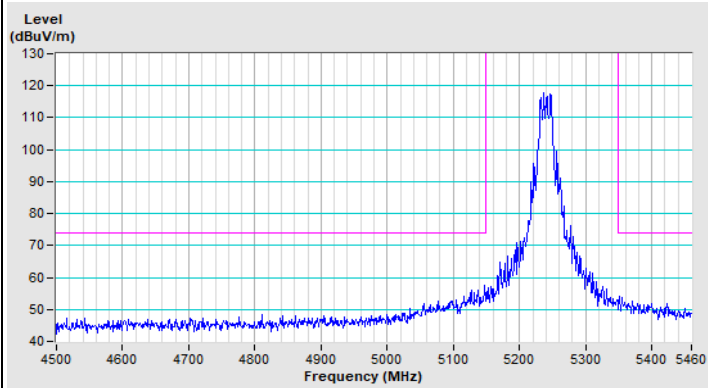
802.11be (EHT20) Channel 48



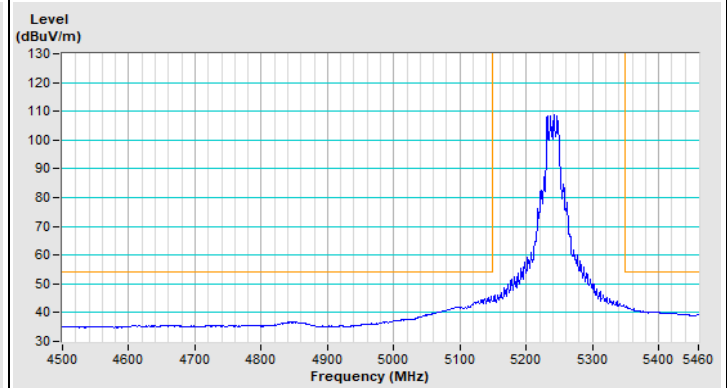
Horizontal (Peak)



Horizontal (Average)



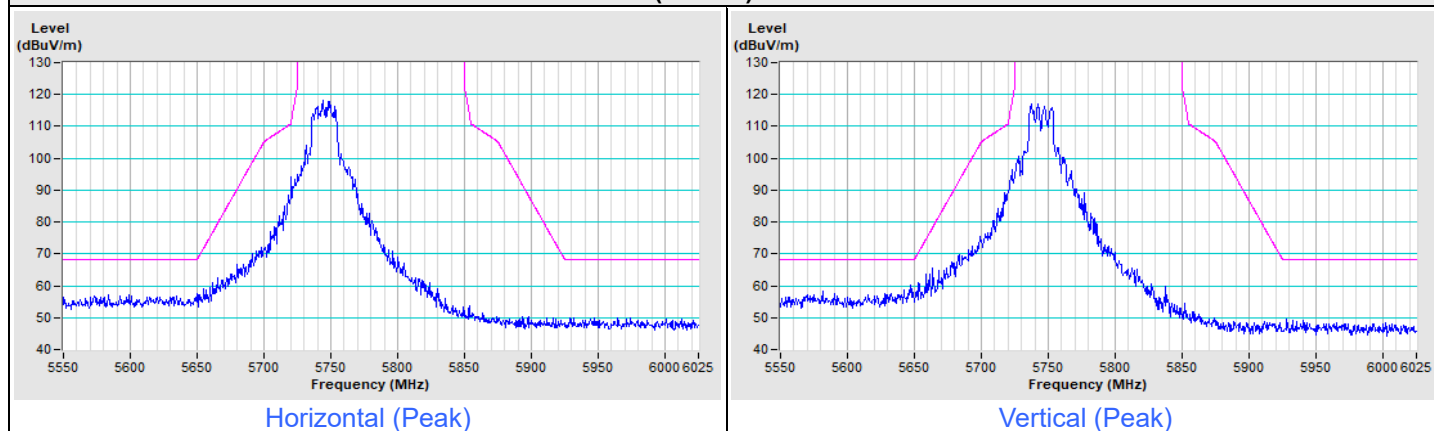
Vertical (Peak)



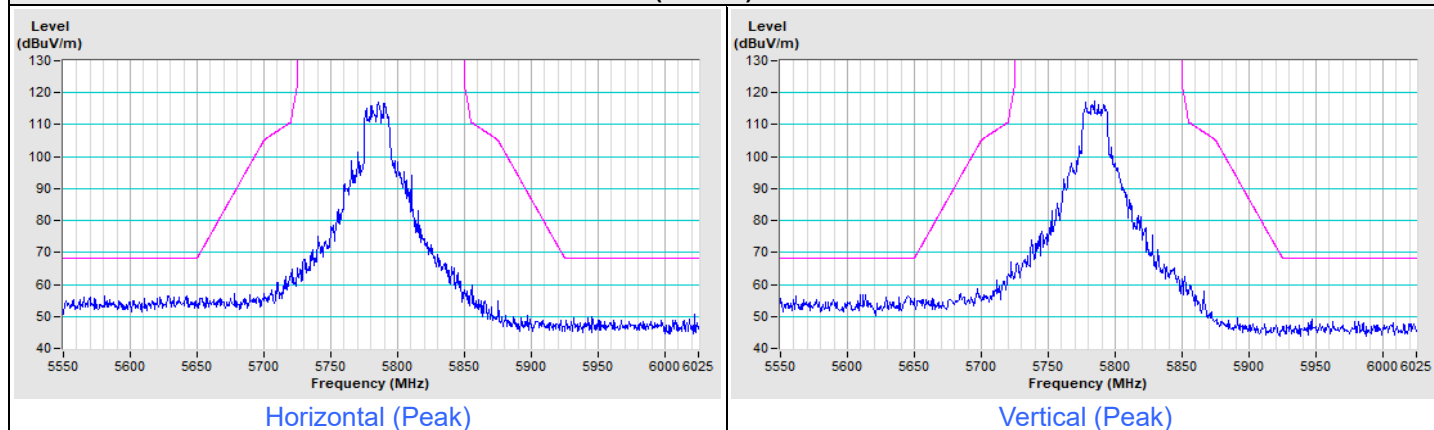
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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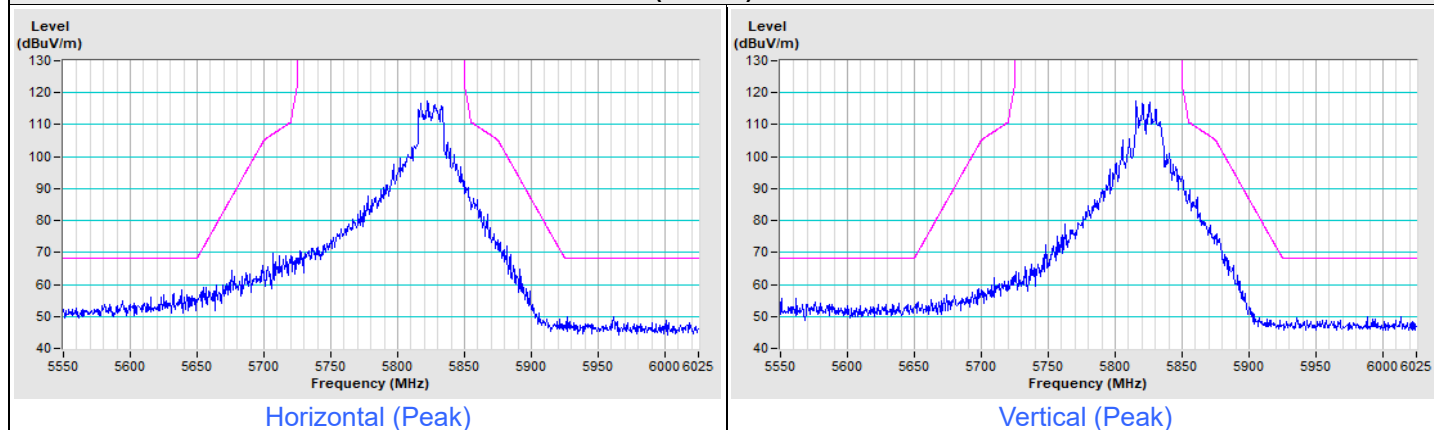
802.11be (EHT20) Channel 149



802.11be (EHT20) Channel 157

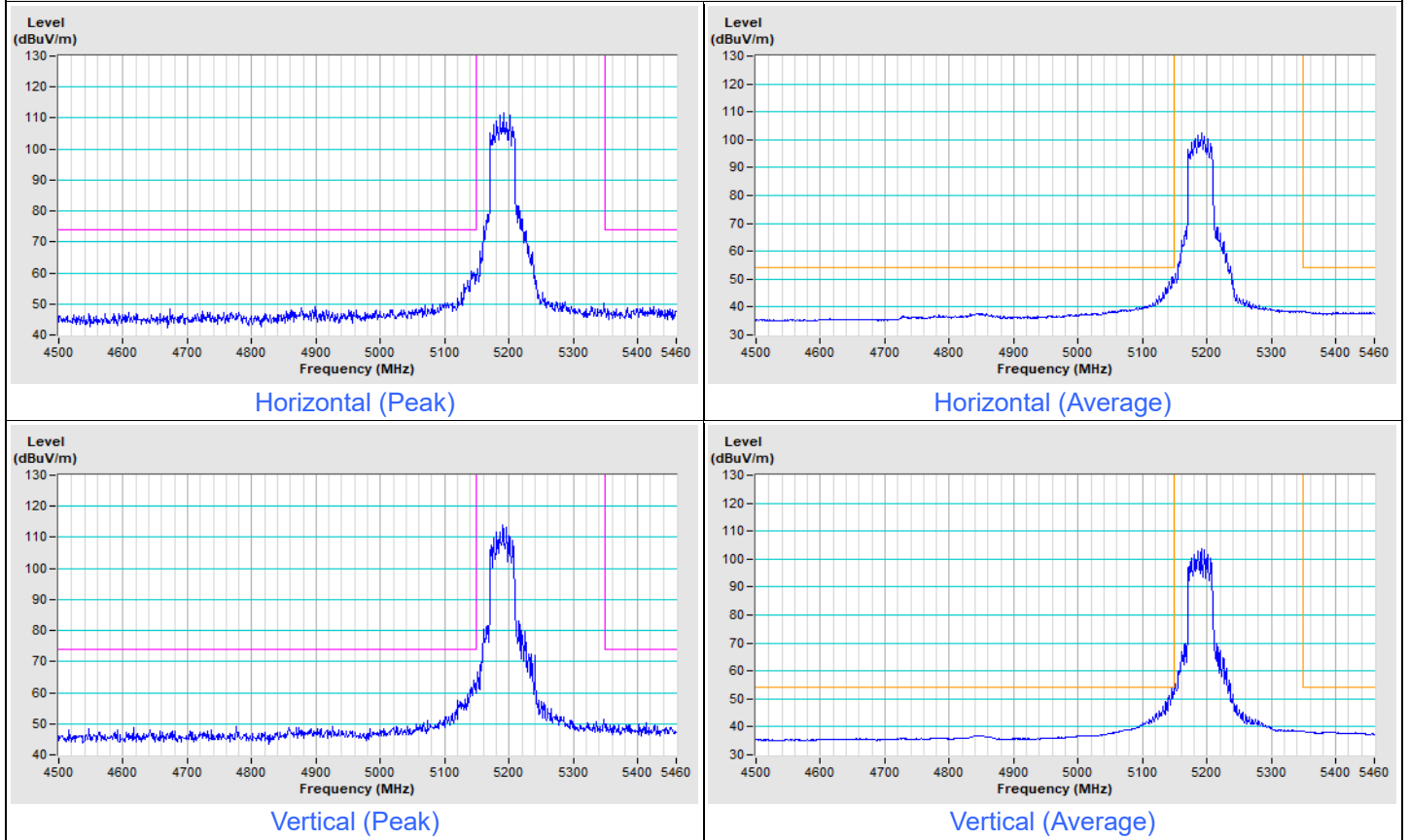


802.11be (EHT20) Channel 165

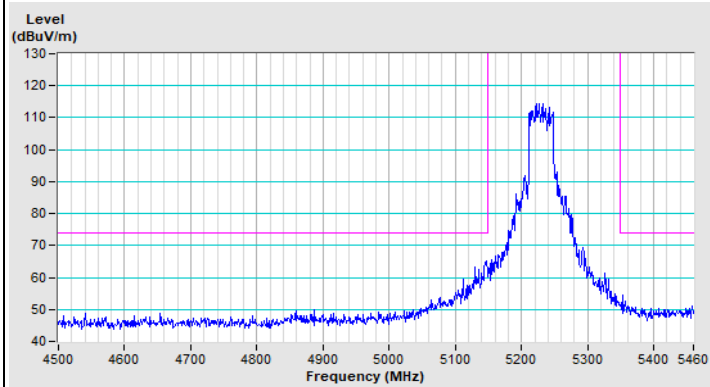


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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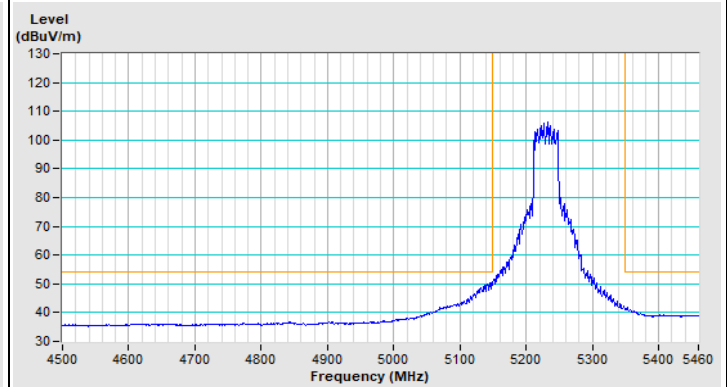
802.11be (EHT40) Channel 38



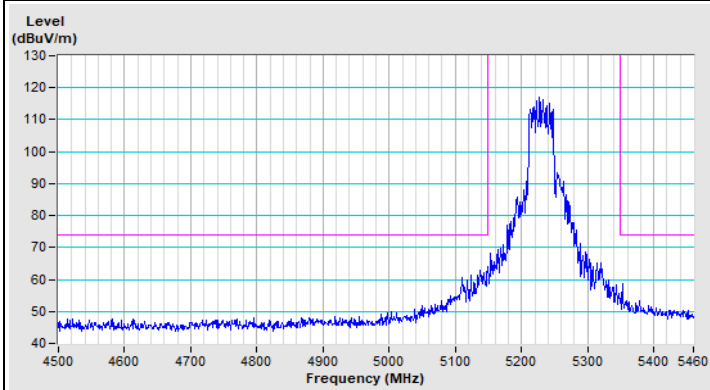
802.11be (EHT40) Channel 46



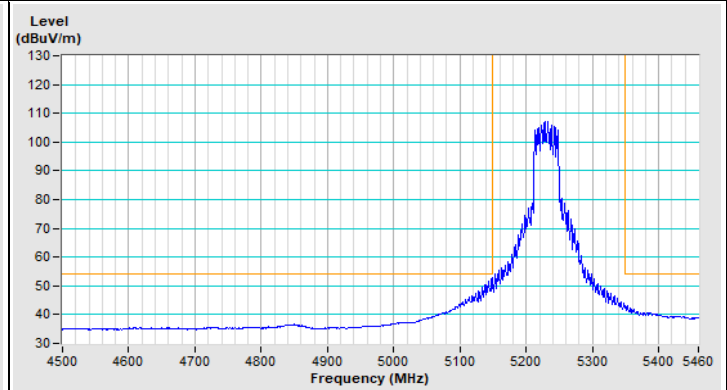
Horizontal (Peak)



Horizontal (Average)



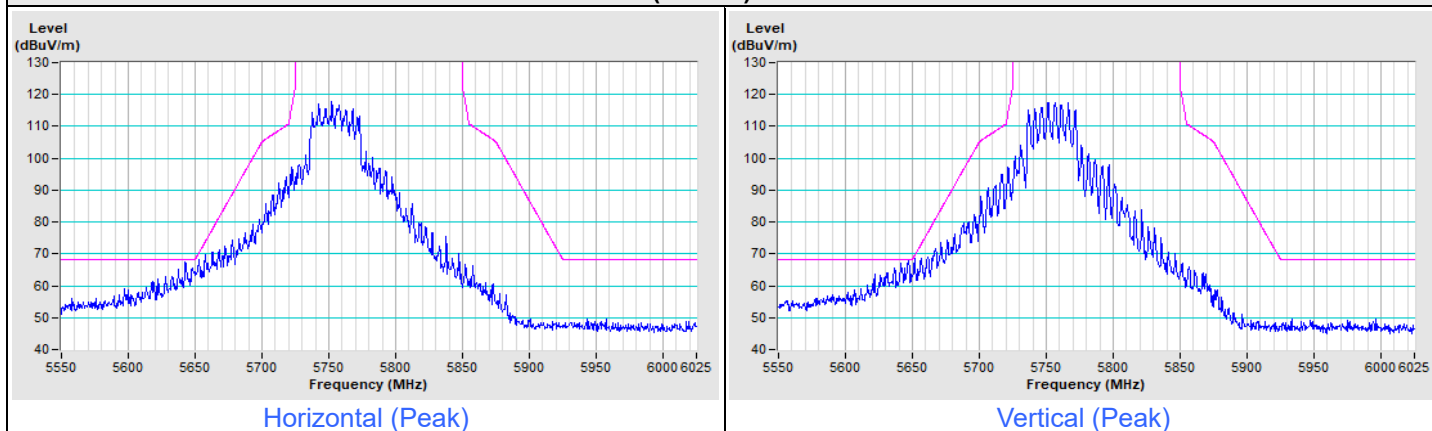
Vertical (Peak)



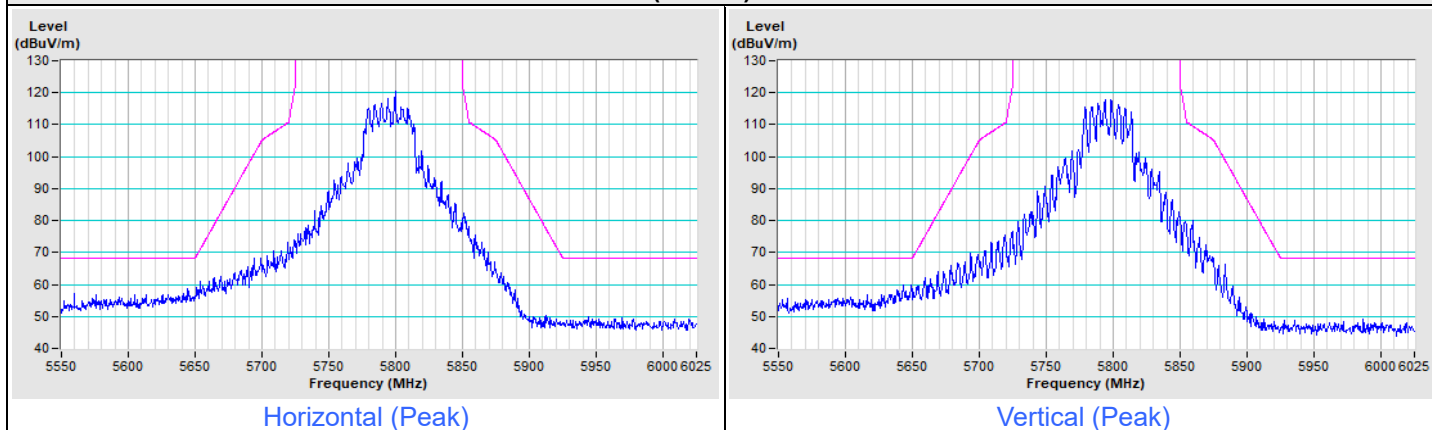
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Channel 151

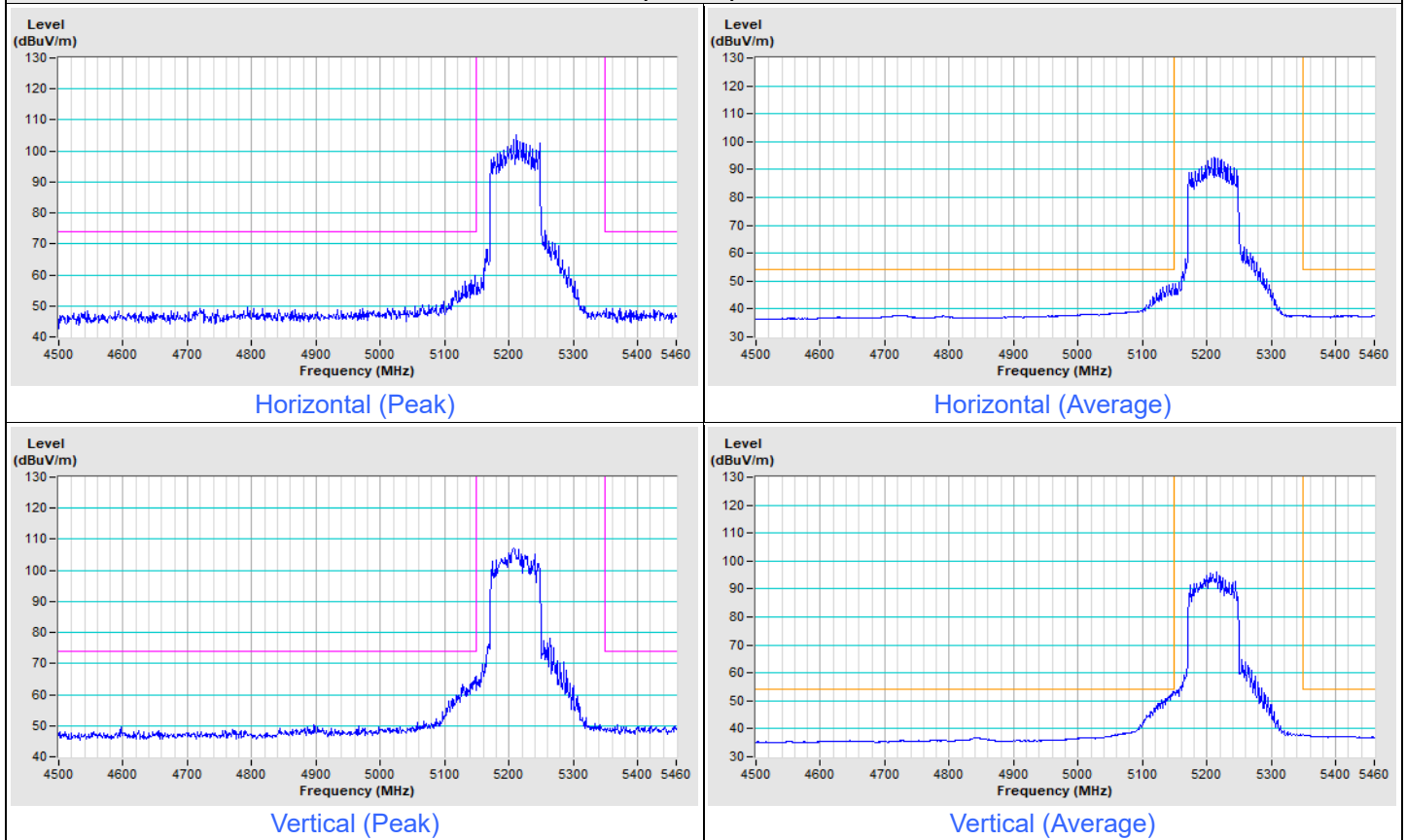


802.11be (EHT40) Channel 159



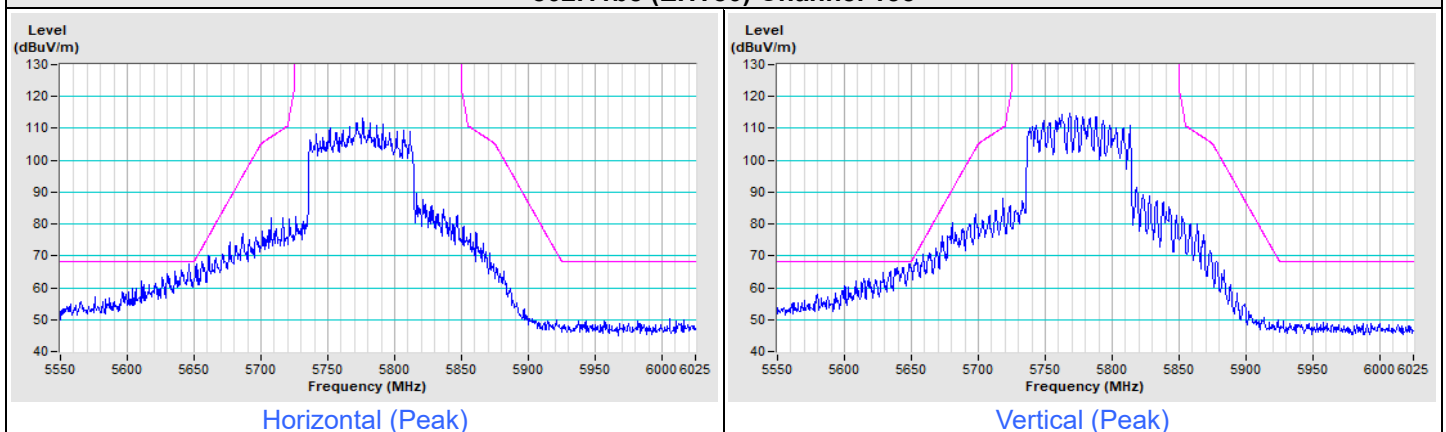
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11be (EHT80) Channel 42



Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT80) Channel 155



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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