

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBHQZ-WTW-P26060674-1
FCC ID: 2AWHPR261
Product: Starlink Router
Brand: SPACEX, SPACEX, X, STARLINK
Model No.: UTR-261
Received Date: 2026/6/26
Test Date: 2026/7/14 ~ 2026/7/31
Issued Date: 2026/8/5
Applicant: Space Exploration Technologies Corp. (SPACEX)
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by:  , **Date:** 2026/8/5
Wen Yu / Assistant Manager

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Prepared by : Claire Kuan / Specialist



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Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List.....	10
3.4 Test Mode Applicability and Tested Channel Detail.....	11
3.5 Duty Cycle of Test Signal.....	12
3.6 Test Program Used and Operation Descriptions	13
3.7 Connection Diagram of EUT and Peripheral Devices	13
3.8 Configuration of Peripheral Devices and Cable Connections	14
4 Test Instruments	15
4.1 RF Output Power.....	15
4.2 Power Spectral Density	15
4.3 6 dB Bandwidth	15
4.4 Occupied Bandwidth.....	15
4.5 AC Power Conducted Emissions	16
4.6 Unwanted Emissions below 1 GHz	16
4.7 Unwanted Emissions above 1 GHz.....	17
5 Limits of Test Items.....	18
5.1 RF Output Power.....	18
5.2 Power Spectral Density	18
5.3 6 dB Bandwidth	18
5.4 Occupied Bandwidth.....	18
5.5 AC Power Conducted Emissions	18
5.6 Unwanted Emissions below 1 GHz	19
5.7 Unwanted Emissions above 1 GHz.....	20
6 Test Arrangements.....	21
6.1 RF Output Power.....	21
6.1.1 Test Setup	21
6.1.2 Test Procedure.....	21
6.2 Power Spectral Density	21
6.2.1 Test Setup	21
6.2.2 Test Procedure.....	21
6.3 6 dB Bandwidth	22
6.3.1 Test Setup	22
6.3.2 Test Procedure.....	22
6.4 Occupied Bandwidth.....	22
6.4.1 Test Setup	22
6.4.2 Test Procedure.....	22
6.5 AC Power Conducted Emissions	23
6.5.1 Test Setup	23
6.5.2 Test Procedure.....	23
6.6 Unwanted Emissions below 1 GHz	24
6.6.1 Test Setup	24
6.6.2 Test Procedure.....	25
6.7 Unwanted Emissions above 1 GHz.....	26
6.7.1 Test Setup	26
6.7.2 Test Procedure.....	26
7 Test Results of Test Item	27

7.1	RF Output Power.....	27
7.2	Power Spectral Density	30
7.3	6 dB Bandwidth	36
7.4	Occupied Bandwidth.....	38
7.5	AC Power Conducted Emissions	47
7.6	Unwanted Emissions below 1 GHz	49
7.7	Unwanted Emissions above 1 GHz.....	51
8	Pictures of Test Arrangements	84
9	Information of the Testing Laboratories	85

Release Control Record

Issue No.	Description	Date Issued
RFBHQZ-WTW-P26060674-1	Original release.	2026/8/5

1 Certificate

Product: Starlink Router

Brand: SPACEX, *SPACE X*, *X*, STARLINK

Test Model: UTR-261

Sample Status: Engineering sample

Applicant: Space Exploration Technologies Corp. (SPACEX)

Test Date: 2026/7/14 ~ 2026/7/31

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

Measurement procedure: ANSI C63.10-2020
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 -11.73 dB at 0.86094 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.6 dB at 85.40 MHz
15.407(b) (1/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) 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	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 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	Starlink Router
Brand	SPACEX, SPACEX, X, STARLINK
Test Model	UTR-261
Status of EUT	Engineering sample
Input Rating	20Vdc, 1.5A ; 15Vdc, 2A ; 57Vdc, 0.5A
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 1560.0 Mbps 802.11ax: up to 2161.8 Mbps 802.11be: up to 2594.1 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
Partial RU Mode	Not support
Channel Puncturing	Not support
Output Power	CDD: 5.18 GHz ~ 5.24 GHz: 855.356 mW (29.32 dBm) 5.745 GHz ~ 5.825 GHz: 827.035 mW (29.18 dBm) Beamforming: 5.18 GHz ~ 5.24 GHz: 846.405 mW (29.28 dBm) 5.745 GHz ~ 5.825 GHz: 812.277 mW (29.10 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter	STARLINK	UTP-271L	AC Input: 100-240 Vac, 1.5A, 50/60Hz DC Output: 5.0 Vdc, 3.0A ; 9.0 Vdc, 3.0A ; 15.0 Vdc, 3.0A ; 20.0 Vdc, 3.0A LPS
PoE Adapter	STARLINK	UTP-253L	AC Input: 100-240V~2.5A 50/60Hz DC Output: 57V, 1.75A(x2) LPS(MAX 195W)
AC Power Cable	STARLINK	-	Signal Line: 1.6m, non-shielded
RJ45 Cable 1	STARLINK	-	CAT5E: 2m, shielded
RJ45 Cable 2	STARLINK	-	CAT5E: 15m, shielded

2. There are WLAN (2.4 GHz & 5 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

Condition	Technology	
1	WLAN (2.4 GHz)	WLAN (5 GHz)

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.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	0	3.6	2.4~2.4835	PCB	ipex(MHF)
2	1	4.04	2.4~2.4835	PCB	ipex(MHF)
3	2	3.43	2.4~2.4835	PCB	ipex(MHF)
4	3	3.38	2.4~2.4835	PCB	ipex(MHF)
5	0	1.17	5.15~5.25	PCB	ipex(MHF)
		1.31	5.25~5.35		
		2.29	5.47~5.725		
		0.81	5.725~5.85		
		1.32	5.85~5.895		
6	1	3.03	5.15~5.25	PCB	ipex(MHF)
		3.19	5.25~5.35		
		2.87	5.47~5.725		
		2.90	5.725~5.85		
		2.57	5.85~5.895		
7	2	2.83	5.15~5.25	PCB	ipex(MHF)
		2.89	5.25~5.35		
		2.52	5.47~5.725		
		2.13	5.725~5.85		
		1.72	5.85~5.895		
8	3	3.38	5.15~5.25	PCB	ipex(MHF)
		3.38	5.25~5.35		
		3.66	5.47~5.725		
		3.47	5.725~5.85		
		3.28	5.85~5.895		
9	4	1.86	5.15~5.25	PCB	ipex(MHF)
		2.20	5.25~5.35		
		3.44	5.47~5.725		
		1.56	5.725~5.85		
		2.22	5.85~5.895		

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

2. The directional gain table:

Frequency Range (GHz)	Directional Antenna Gain (dBi)
2.4~2.4835	6.11
5.15 ~ 5.25	5.73
5.725 ~ 5.85	5.91
5.85~5.895	5.90

3. The EUT incorporates a MIMO function:

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

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode.
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. EUT has the following operations/ usages: AC Adapter(UTP-271L)/ POE(UTP-253L). Pre-scan these operations/ usages 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. POE/ AC Adapter Worst Condition: POE(UTP-253L)

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
	802.11be (EHT20)	CDD & Beamforming	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD & Beamforming	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD & Beamforming	42, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11a	CDD	165	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	CDD	165	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0

Note:

1. The EUT is designed to be positioned on the z-plane only.

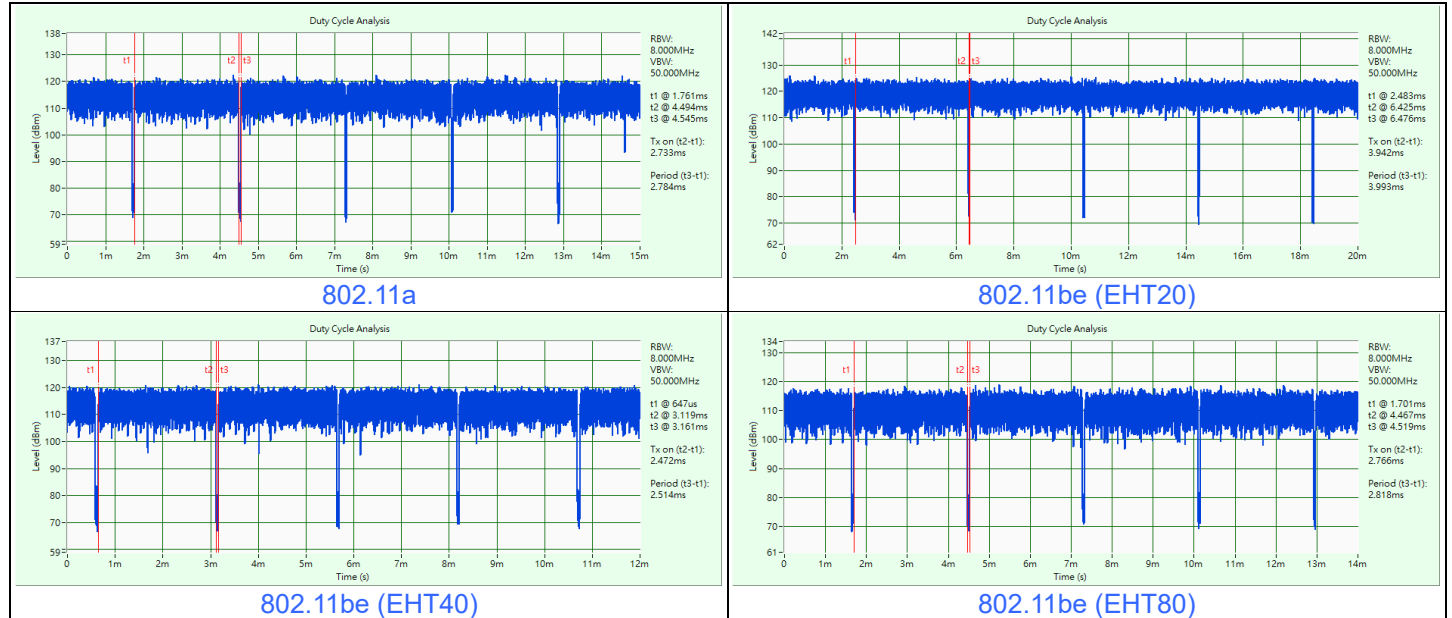
3.5 Duty Cycle of Test Signal

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

802.11be (EHT20): Duty cycle = 3.942 ms / 3.993 ms x 100% = 98.7%

802.11be (EHT40): Duty cycle = 2.472 ms / 2.514 ms x 100% = 98.3%

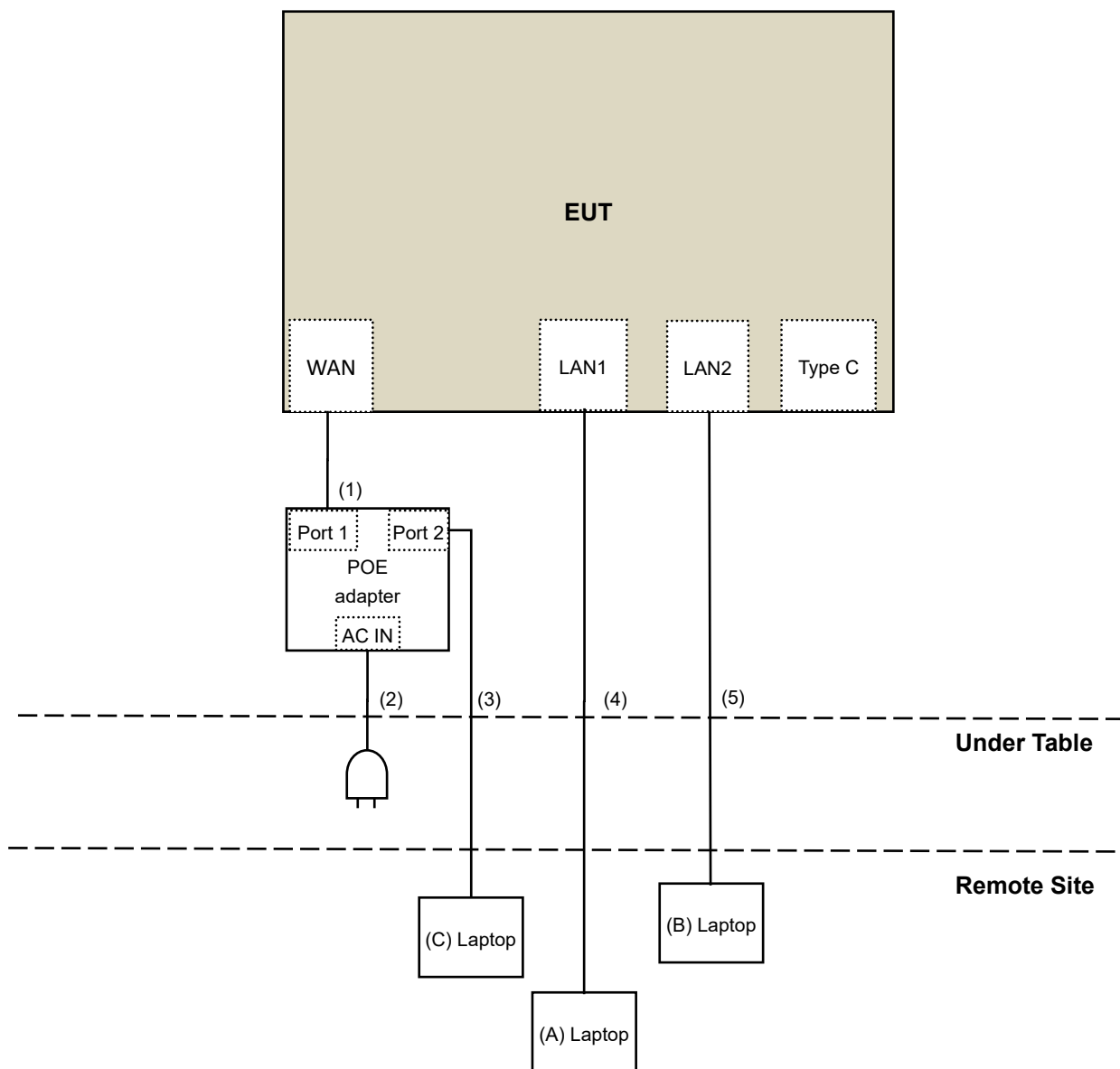
802.11be (EHT80): Duty cycle = 2.766 ms / 2.818 ms x 100% = 98.2%



3.6 Test Program Used and Operation Descriptions

Controlling software (QATool_20260409_mt76) 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	Laptop	Lenovo	81A4	YD02YN2A	PD93165N GU	Provided by Lab
B	Laptop	Lenovo	L480	RF1PRC03	N/A	Provided by Lab
C	Laptop	DELL	E6230	G94PSY1	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	2	Yes	0	Supplied by applicant
2	AC Power Cable	1	1.6	No	0	Supplied by applicant
3	RJ-45 Cable	1	15	Yes	0	Supplied by applicant
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	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
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2026/5/21	2027/5/20
Pulse Power Sensor Anritsu	MA2411B	1726433	2026/5/8	2027/5/7
RF Power Meter Anritsu	ML2496A	1529003	2026/6/15	2027/6/14

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/7/24

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
MXA Signal Analyzer Keysight	N9020B	MY60112408	2026/2/12	2027/2/11
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/7/24

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	2025/10/29	2026/10/28
EMI Test Receiver R&S	ESCS 30	100375	2026/5/20	2027/5/19
Fixed Attenuator STI	STI02-2200-10	005	2026/2/9	2027/2/8
LISN R&S	ESH3-Z5	835239/001	2026/3/30	2027/3/29
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2026/2/9	2027/2/8
Software BVADT	BVADT_Conc_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Conduction 1(Hsinchu).
2. Tested Date: 2026/7/29 ~ 2026/7/30

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2025/9/16	2026/9/15
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Woken	00800N1G01A-05	00800N1G01A-05-003	2026/1/31	2027/1/30
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Agilent	N9038A	MY50010156	2026/6/22	2027/6/21
Preamplifier EMCI	EMC330N	980852	2026/1/31	2027/1/30
RF Coaxial Cable PEWC	8D	001	2026/1/31	2027/1/30
		966-3-2	2026/1/31	2027/1/30
		966-3-3	2026/1/31	2027/1/30
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 3(Hsinchu).
2. Tested Date: 2026/7/29

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY50010156	2026/6/22	2027/6/21
Preamplifier EMCI	EMC12630SE	980384	2026/1/10	2027/1/9
	EMC184045SE	980387	2025/8/7	2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2026/5/25	2027/5/24
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1500	180504	2026/1/17	2027/1/16
	EMC104-SM-SM-2000	180601	2026/1/17	2027/1/16
	EMC104-SM-SM-6000	210201	2026/1/17	2027/1/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 3(Hsinchu).
2. Tested Date: 2026/7/14 ~ 2026/7/31

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)

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: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	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.

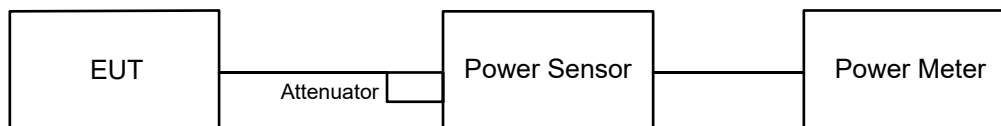
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



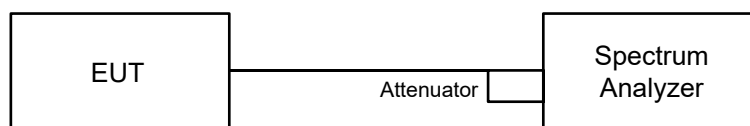
Note: The correction factor has already been compensated by the instrument.

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



Note: The correction factor has already been compensated by the instrument.

6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- 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

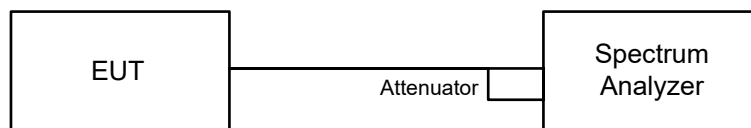
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW 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



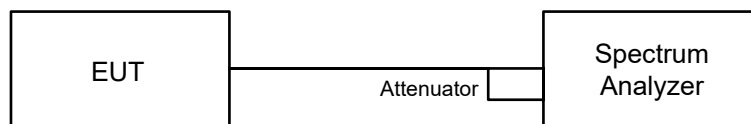
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

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

6.4 Occupied Bandwidth

6.4.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

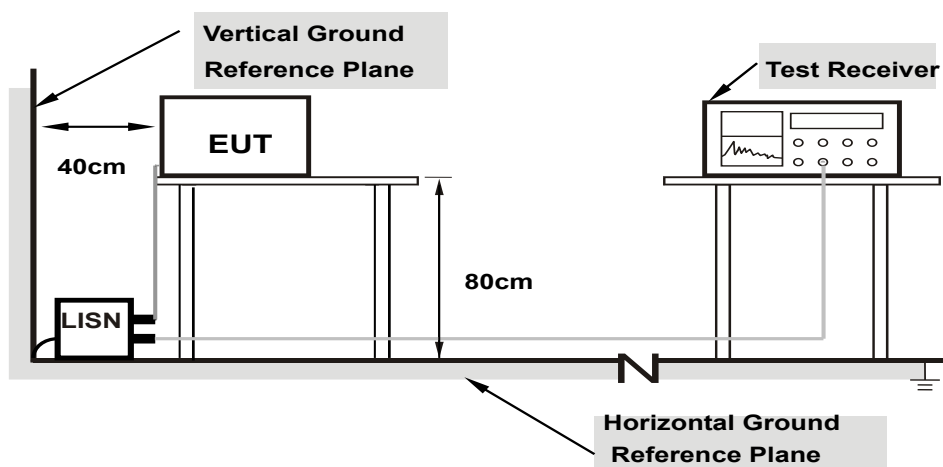
6.4.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

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

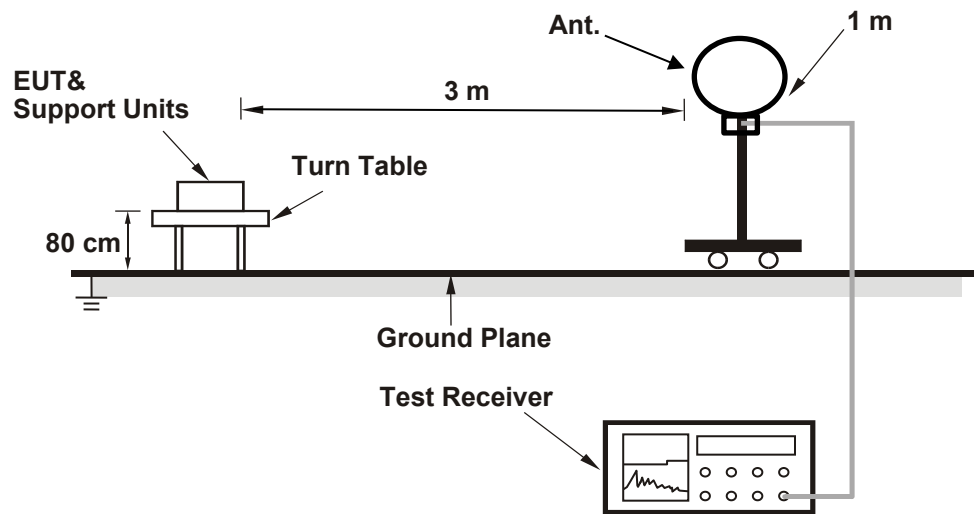
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

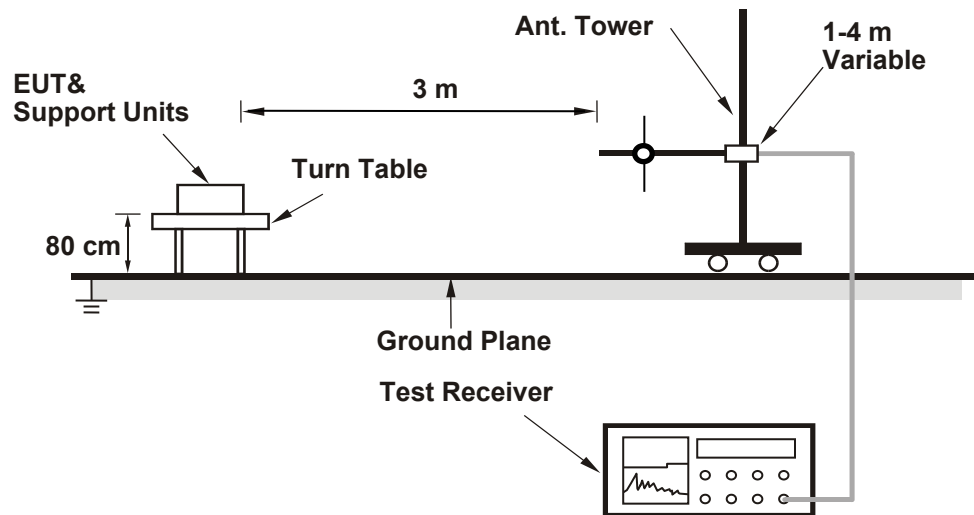
6.6 Unwanted Emissions below 1 GHz

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 (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

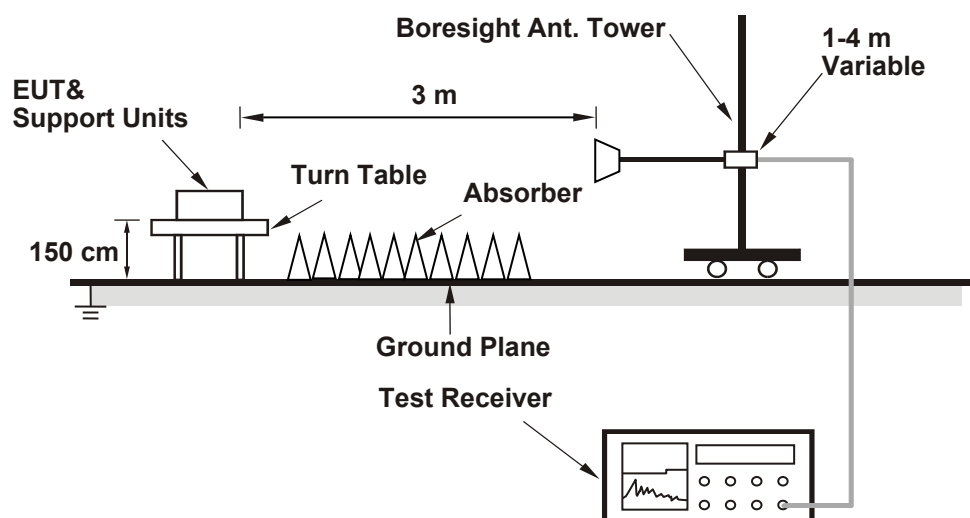
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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 (however, peak detector measurements may be used to determine compliance with QP requirements).
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:	26°C, 62% RH	Tested By:	Stars Liu
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802.11a

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	Chain 4				
36	5180	20.99	20.87	20.42	21.13	20.78	607.329	27.83	30	Pass
40	5200	22.42	22.24	21.82	22.29	22.13	826.87	29.17	30	Pass
48	5240	22.48	22.52	22.01	22.27	22.36	855.356	29.32	30	Pass
149	5745	22.21	22.54	21.87	22.24	21.68	814.356	29.11	30	Pass
157	5785	22.43	22.42	21.99	21.94	21.98	821.768	29.15	30	Pass
165	5825	22.85	22.42	21.61	22.49	21.38	827.035	29.18	30	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 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

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	Chain 4				
36	5180	20.27	20.04	19.78	20.41	19.98	511.841	27.09	30	Pass
40	5200	22.24	22.16	21.67	22.09	21.89	795.158	29.00	30	Pass
48	5240	22.25	22.34	21.98	22.08	22.74	846.405	29.28	30	Pass
149	5745	22.48	22.47	21.64	22.07	21.51	802.14	29.04	30	Pass
157	5785	22.43	22.57	21.78	22.14	21.53	812.277	29.10	30	Pass
165	5825	22.34	22.33	21.47	22.42	21.21	789.39	28.97	30	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 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

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	Chain 4				
38	5190	18.04	17.96	17.64	18.32	17.85	313.147	24.96	30	Pass
46	5230	21.47	21.48	21.24	21.63	21.48	700.082	28.45	30	Pass
151	5755	21.63	21.87	21.20	21.52	20.89	695.837	28.43	30	Pass
159	5795	21.72	21.97	21.23	21.65	20.97	709.975	28.51	30	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 maximum gain is 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80)

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	Chain 4				
42	5210	17.48	17.35	17.04	17.68	17.21	272.099	24.35	30	Pass
155	5775	20.88	21.34	20.58	20.76	20.31	599.417	27.78	30	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 maximum gain is 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

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	Chain 4				
36	5180	20.27	20.04	19.78	20.41	19.98	511.841	27.09	30	Pass
40	5200	22.24	22.16	21.67	22.09	21.89	795.158	29.00	30	Pass
48	5240	22.25	22.34	21.98	22.08	22.74	846.405	29.28	30	Pass
149	5745	22.48	22.47	21.64	22.07	21.51	802.14	29.04	30	Pass
157	5785	22.43	22.57	21.78	22.14	21.53	812.277	29.10	30	Pass
165	5825	22.34	22.33	21.47	22.42	21.21	789.39	28.97	30	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 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

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	Chain 4				
38	5190	18.04	17.96	17.64	18.32	17.85	313.147	24.96	30	Pass
46	5230	21.47	21.48	21.24	21.63	21.48	700.082	28.45	30	Pass
151	5755	21.63	21.87	21.20	21.52	20.89	695.837	28.43	30	Pass
159	5795	21.72	21.97	21.23	21.65	20.97	709.975	28.51	30	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 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

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	Chain 4				
42	5210	17.48	17.35	17.04	17.68	17.21	272.099	24.35	30	Pass
155	5775	20.88	21.34	20.58	20.76	20.31	599.417	27.78	30	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 5.73 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 62% RH	Tested By:	Stars Liu
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)					Total PSD (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4	
36	5180	6.60	7.04	7.16	6.92	7.47	14.04
40	5200	7.93	8.24	8.56	8.46	8.71	15.38
48	5240	8.15	8.50	8.63	7.96	8.77	15.40

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	14.04	17	Pass
40	5200	15.38	17	Pass
48	5240	15.40	17	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 5.73 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)					Total PSD (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4	
36	5180	5.89	6.03	5.74	5.73	6.58	13.00
40	5200	7.65	7.62	7.77	7.53	8.29	14.77
48	5240	7.60	7.81	7.91	7.61	8.34	14.85

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	13.00	17	Pass
40	5200	14.77	17	Pass
48	5240	14.85	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 5.73 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)					Total PSD (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4	
38	5190	1.44	1.47	1.46	1.90	2.01	8.65
46	5230	4.65	4.80	5.10	4.96	5.42	11.98

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	8.65	17	Pass
46	5230	11.98	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 5.73 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)					Total PSD (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4	
42	5210	-2.30	-2.19	-2.28	-2.30	-1.41	4.91

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	4.91	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 5.73 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)					Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
149	5745	3.85	4.48	3.75	3.41	3.36	10.78	13.00
157	5785	3.91	4.44	3.54	3.38	3.44	10.75	12.97
165	5825	3.98	3.85	2.93	3.64	3.04	10.5	12.72

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/500kHz)	Directional Gain (dBi)	PSD Limit (dBm/500kHz)	Test Result
149	5745	13.00	5.91	30	Pass
157	5785	12.97	5.91	30	Pass
165	5825	12.72	5.91	30	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 5.91 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)					Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
149	5745	3.19	3.73	2.86	3.29	2.68	10.16	12.38
157	5785	2.93	3.72	2.85	3.21	2.72	10.09	12.31
165	5825	3.00	3.38	2.22	3.17	2.37	9.84	12.06

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/500kHz)	Directional Gain (dBi)	PSD Limit (dBm/500kHz)	Test Result
149	5745	12.38	5.91	30	Pass
157	5785	12.31	5.91	30	Pass
165	5825	12.06	5.91	30	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 5.91 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)					Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
151	5755	0.32	1.12	0.13	0.29	0.07	7.39	9.61
159	5795	0.23	1.11	0.21	0.31	0.14	7.41	9.63

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/500kHz)	Directional Gain (dBi)	PSD Limit (dBm/500kHz)	Test Result
151	5755	9.61	5.91	30	Pass
159	5795	9.63	5.91	30	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 5.91 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

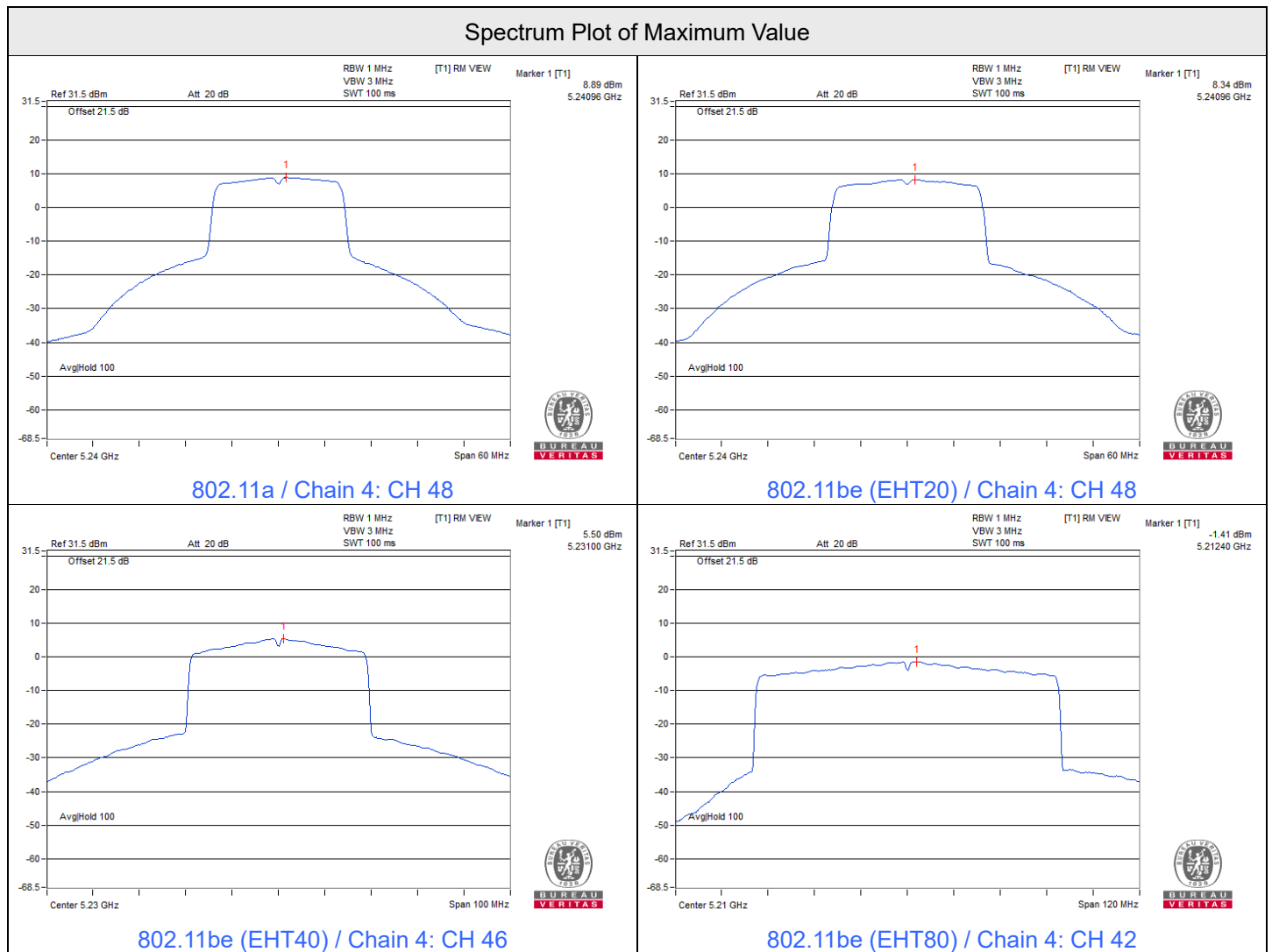
802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)					Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
155	5775	-3.40	-2.48	-3.39	-3.76	-3.51	3.7	5.92

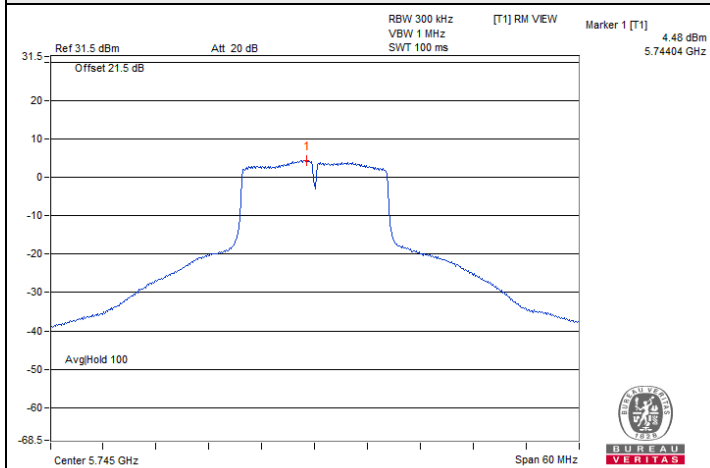
Chan.	Chan. Freq. (MHz)	Total PSD (dBm/500kHz)	Directional Gain (dBi)	PSD Limit (dBm/500kHz)	Test Result
155	5775	5.92	5.91	30	Pass

Notes:

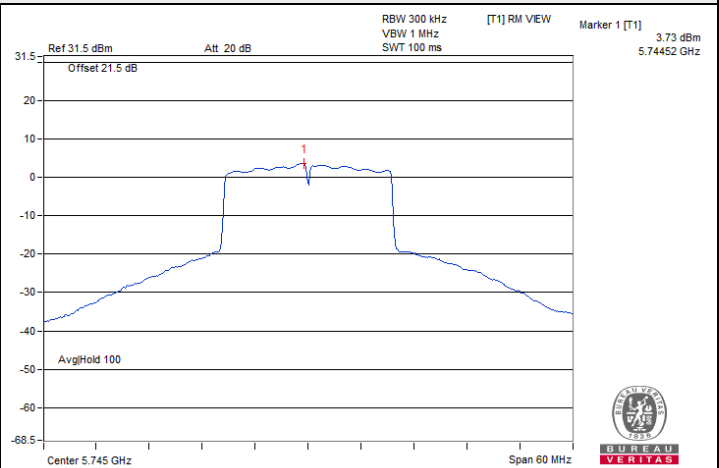
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3, the directional gain is 5.91 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.



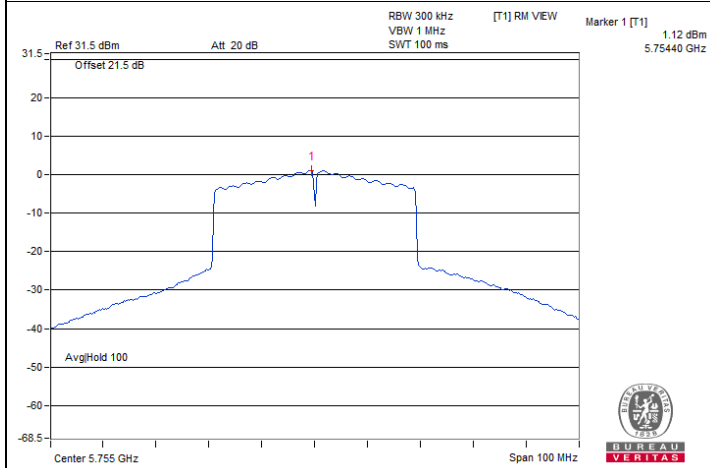
Spectrum Plot of Maximum Value



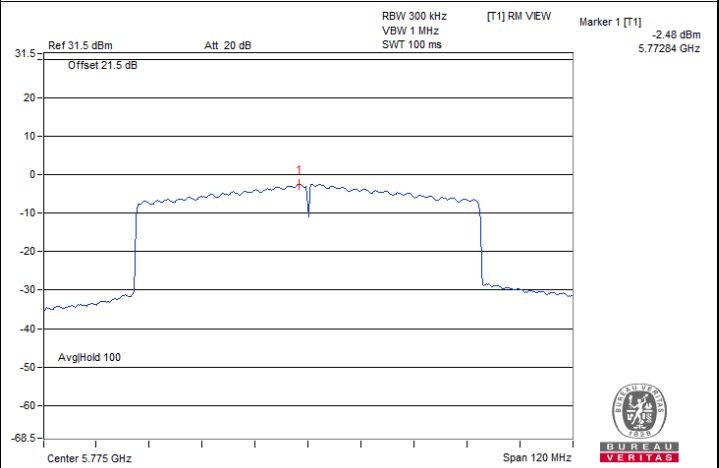
802.11a / Chain 1: CH 149



802.11be (EHT20) / Chain 1: CH 149



802.11be (EHT40) / Chain 1: CH 151



802.11be (EHT80) / Chain 1: CH 155

7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 62% RH	Tested By:	Stars Liu
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)					Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
149	5745	16.34	16.31	16.33	16.35	16.35	0.5	Pass
157	5785	16.30	16.30	15.99	16.32	16.32	0.5	Pass
165	5825	16.31	16.37	16.32	16.36	16.36	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)					Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
149	5745	18.58	18.40	18.46	18.81	18.62	0.5	Pass
157	5785	18.75	18.85	18.52	18.77	18.65	0.5	Pass
165	5825	18.70	18.73	18.55	18.79	18.44	0.5	Pass

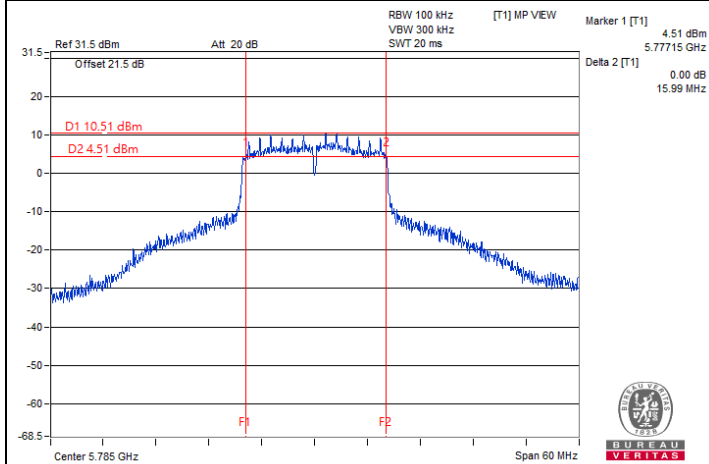
802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)					Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
151	5755	36.45	35.20	36.12	35.10	35.19	0.5	Pass
159	5795	36.23	35.15	35.96	35.13	35.18	0.5	Pass

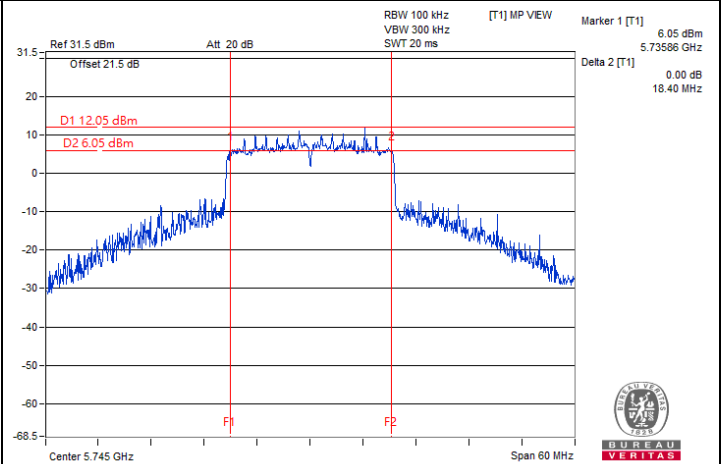
802.11be (EHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)					Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4		
155	5775	71.39	75.39	75.37	75.38	70.22	0.5	Pass

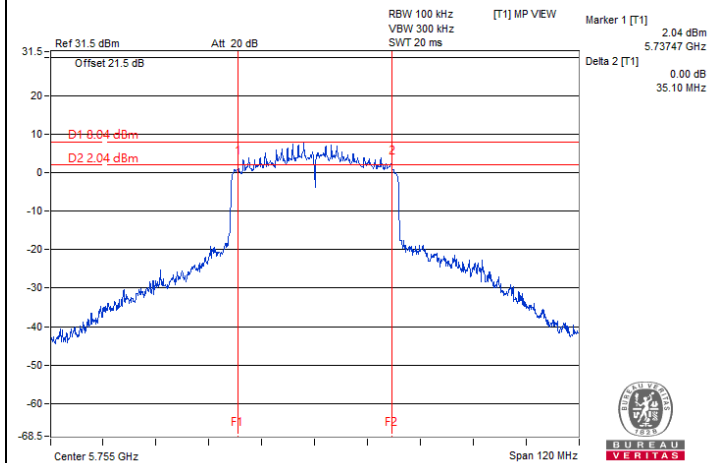
Spectrum Plot of Minimum Value



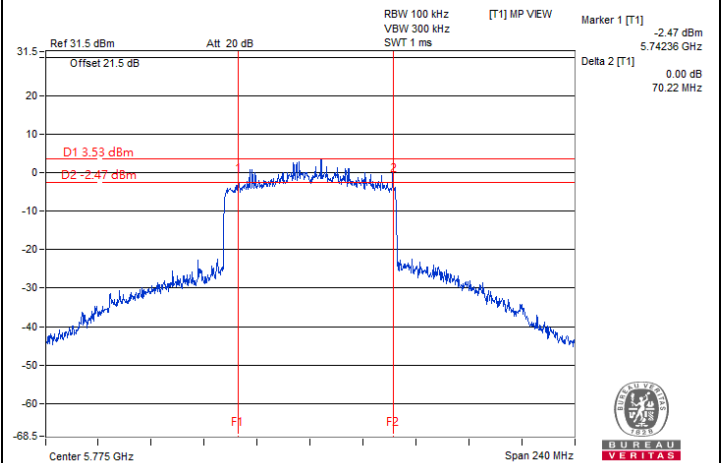
802.11a / Chain 2: CH 157



802.11be (EHT20) / Chain 1: CH 149



802.11be (EHT40) / Chain 3: CH 151



802.11be (EHT80) / Chain 4: CH 155

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:	26°C, 62% RH	Tested By:	Stars Liu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4
36	5180	16.62	16.44	16.50	16.56	16.56
40	5200	16.86	16.62	16.86	16.80	17.40
48	5240	16.74	16.62	16.92	16.74	16.98
149	5745	16.98	17.88	16.80	16.98	17.34
157	5785	17.04	19.08	17.46	17.10	18.96
165	5825	17.58	18.00	17.28	17.34	18.18

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4
36	5180	18.90	18.90	18.90	18.90	18.90
40	5200	19.02	19.02	19.08	19.02	19.14
48	5240	19.02	18.96	19.08	19.02	19.08
149	5745	19.02	19.26	19.08	19.02	19.20
157	5785	19.02	19.26	19.14	19.08	19.44
165	5825	19.08	19.20	19.08	19.08	19.20

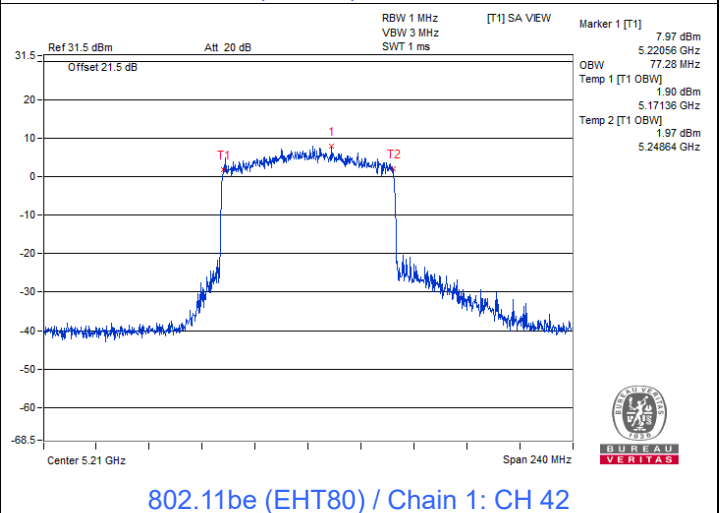
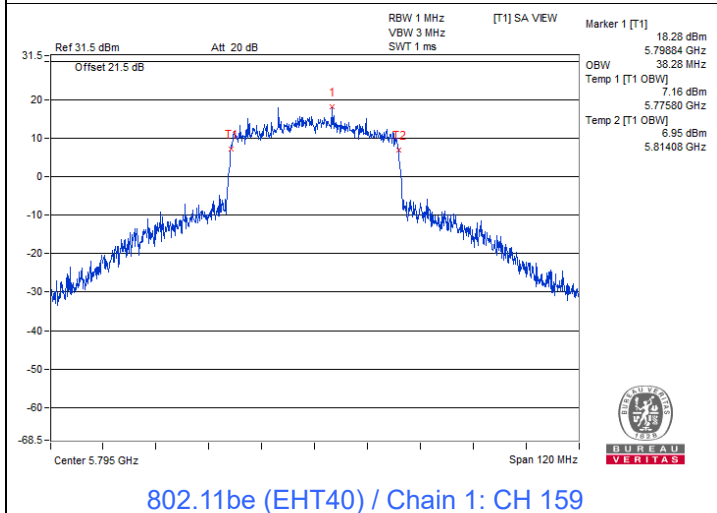
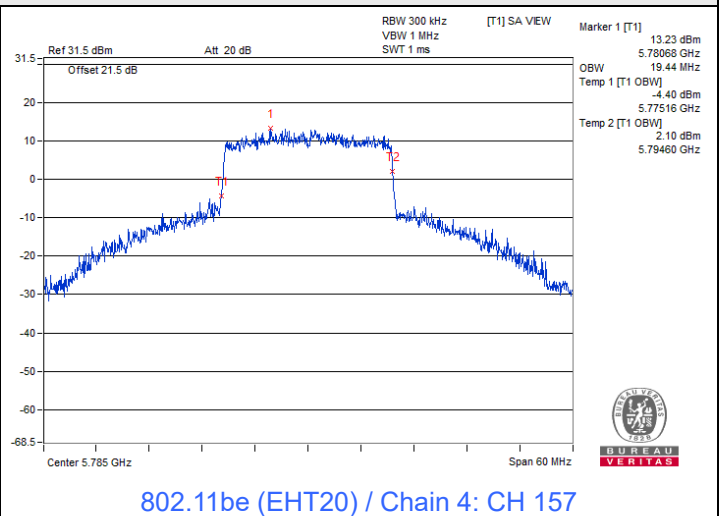
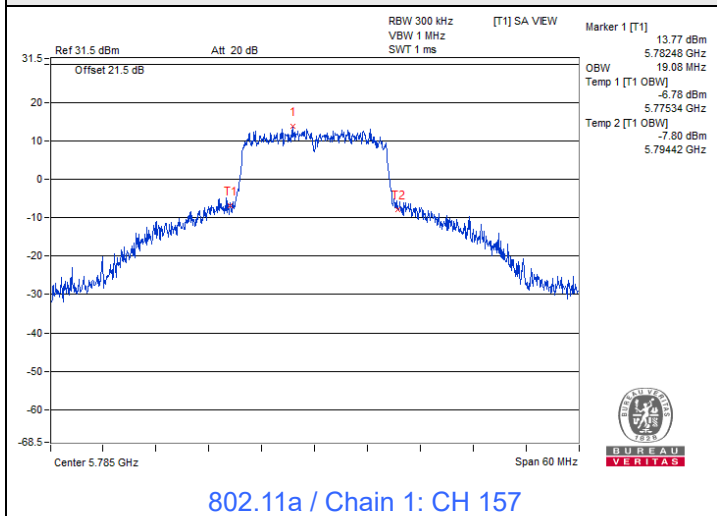
802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4
38	5190	37.56	37.56	37.68	37.68	37.56
46	5230	37.80	37.80	37.92	37.92	37.92
151	5755	37.68	38.04	37.92	37.80	38.16
159	5795	37.80	38.28	38.04	37.80	38.16

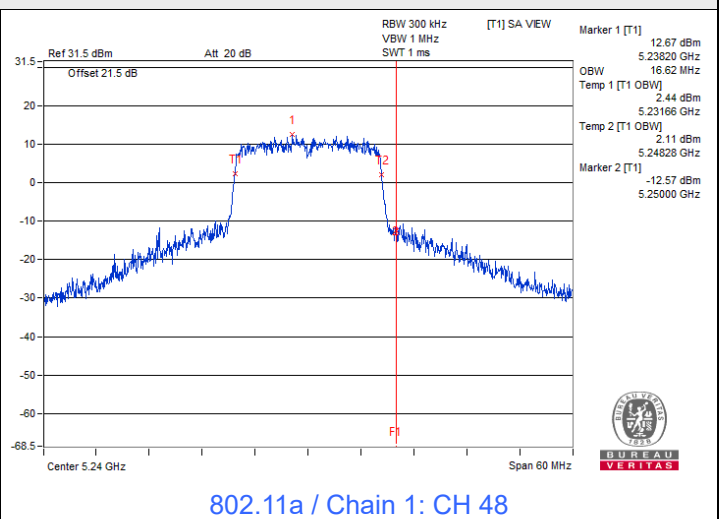
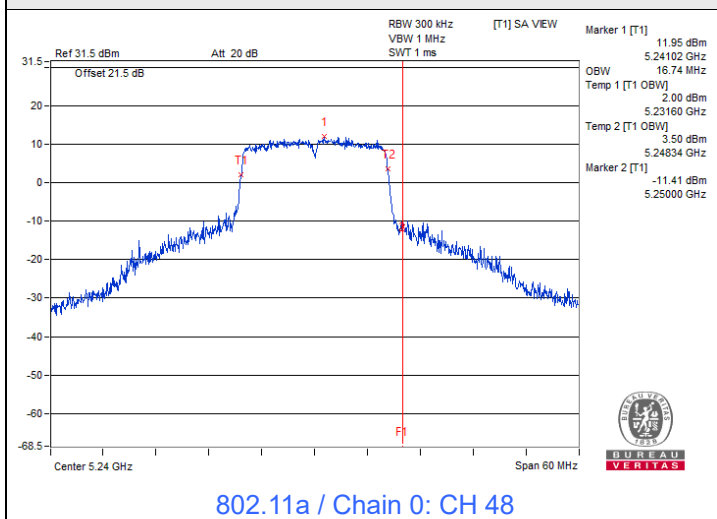
802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 4
42	5210	77.04	77.28	76.80	76.80	76.80
155	5775	77.04	77.04	77.28	77.04	77.28

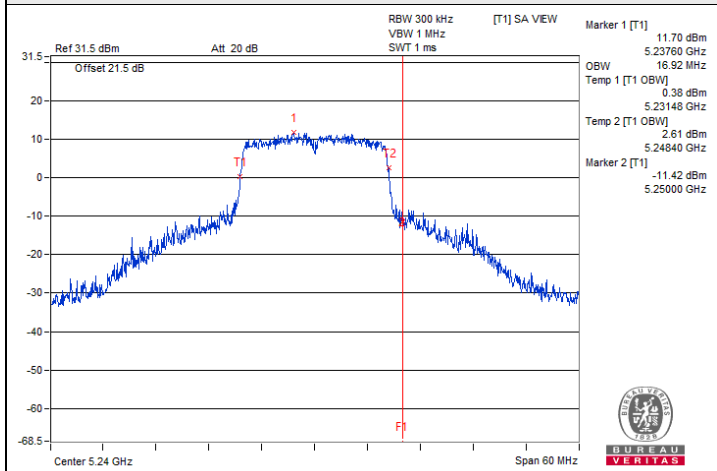
Spectrum Plot of Maximum Value



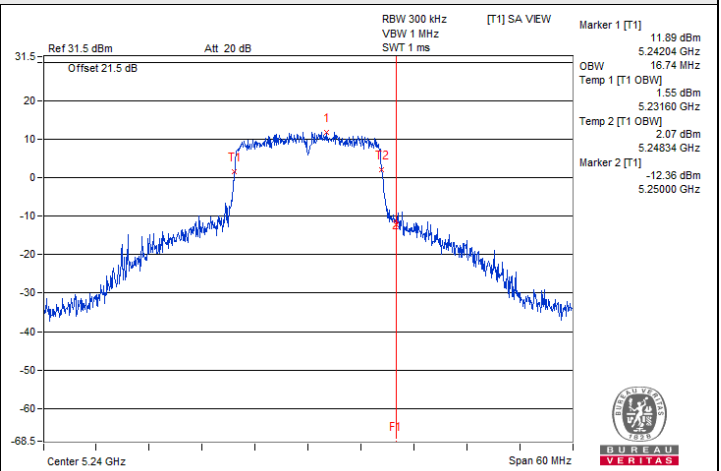
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



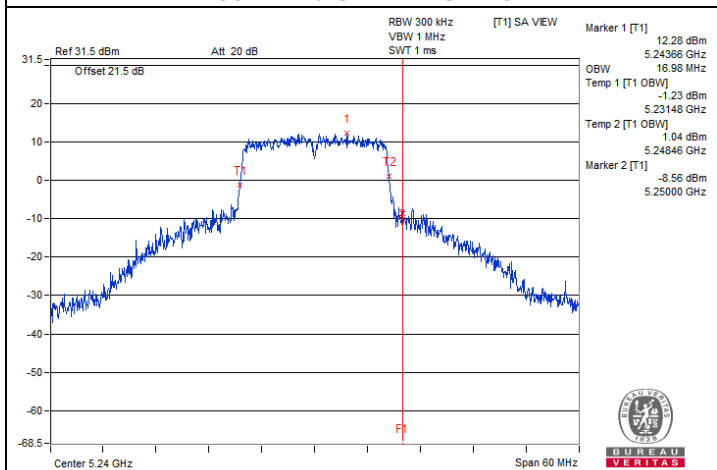
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



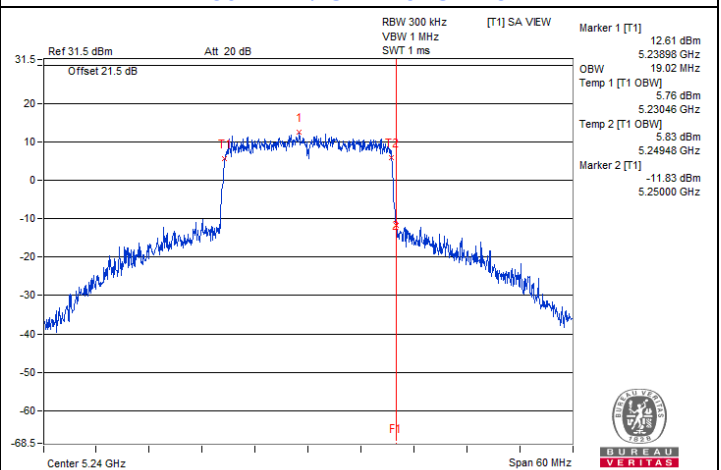
802.11a / Chain 2: CH 48



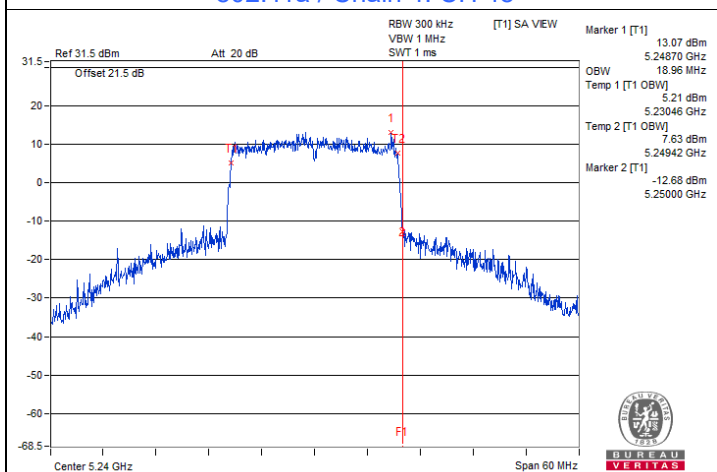
802.11a / Chain 3: CH 48



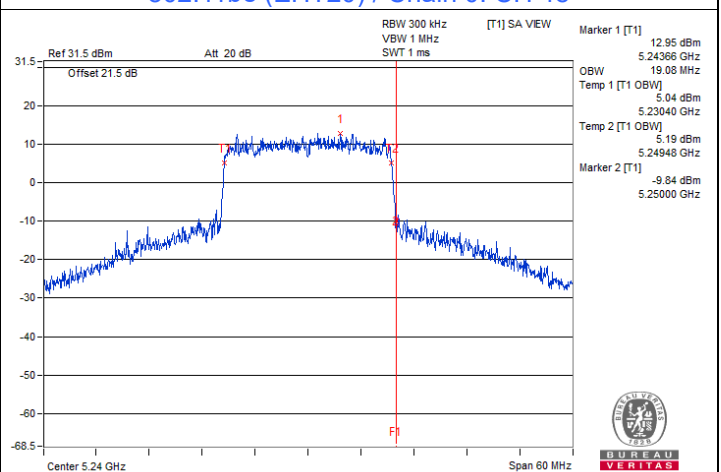
802.11a / Chain 4: CH 48



802.11be (EHT20) / Chain 0: CH 48

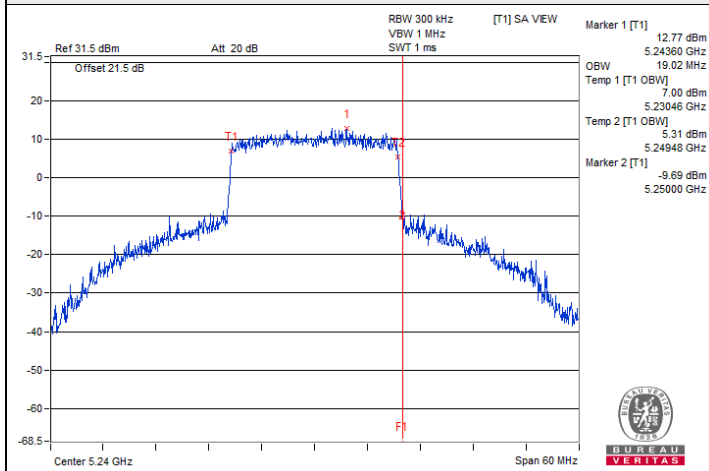


802.11be (EHT20) / Chain 1: CH 48

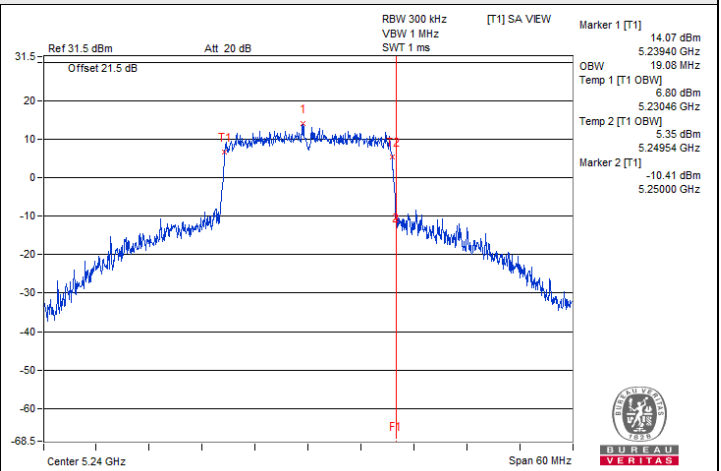


802.11be (EHT20) / Chain 2: CH 48

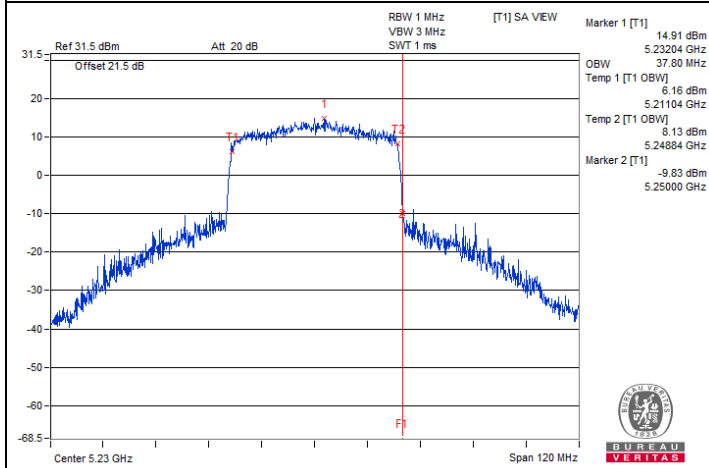
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



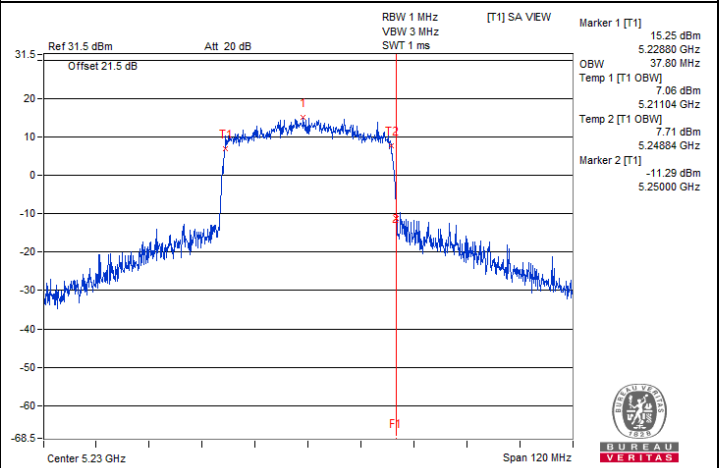
802.11be (EHT20) / Chain 3: CH 48



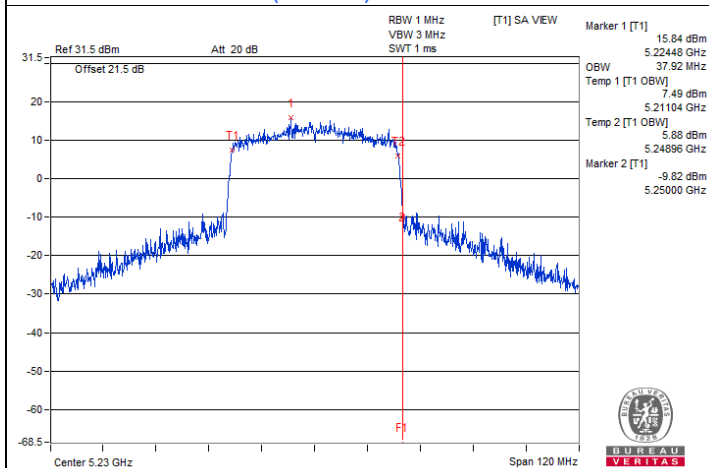
802.11be (EHT20) / Chain 4: CH 48



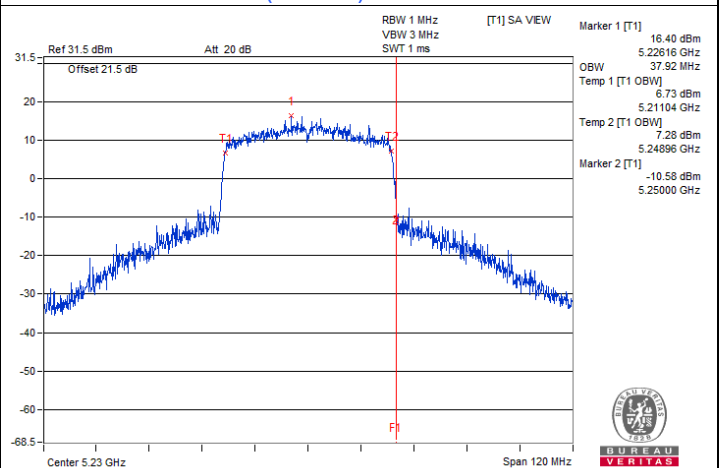
802.11be (EHT40) / Chain 0: CH 46



802.11be (EHT40) / Chain 1: CH 46

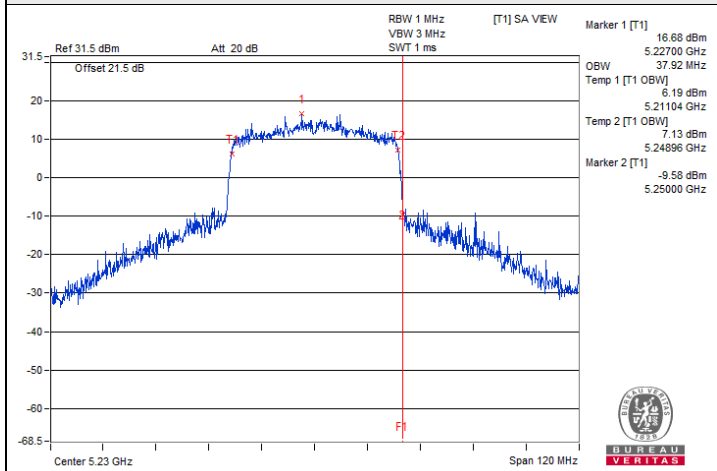


802.11be (EHT40) / Chain 2: CH 46

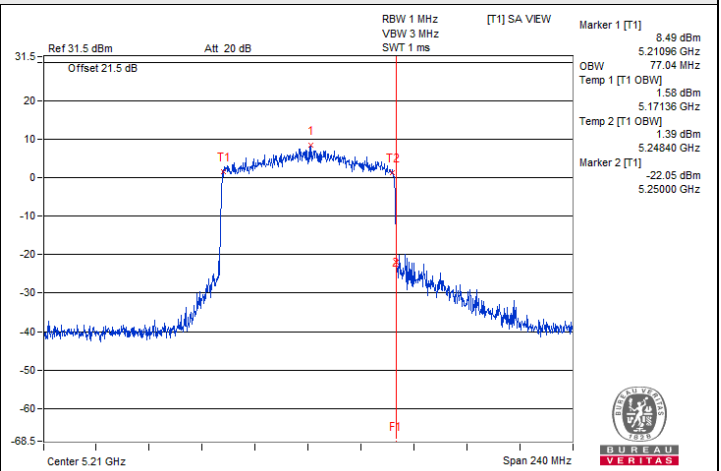


802.11be (EHT40) / Chain 3: CH 46

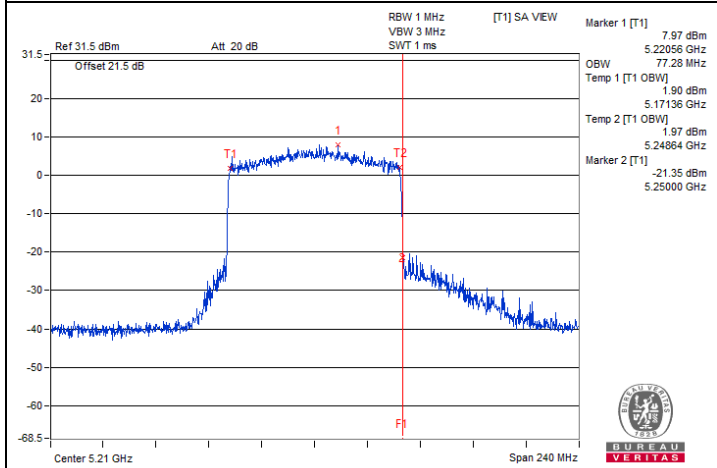
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



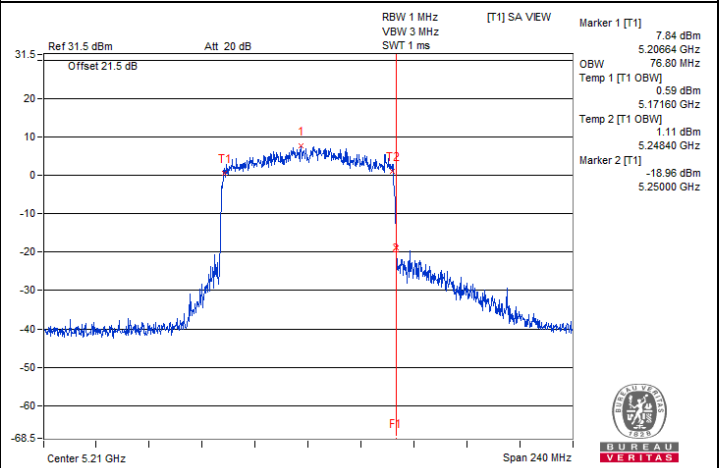
802.11be (EHT40) / Chain 4: CH 46



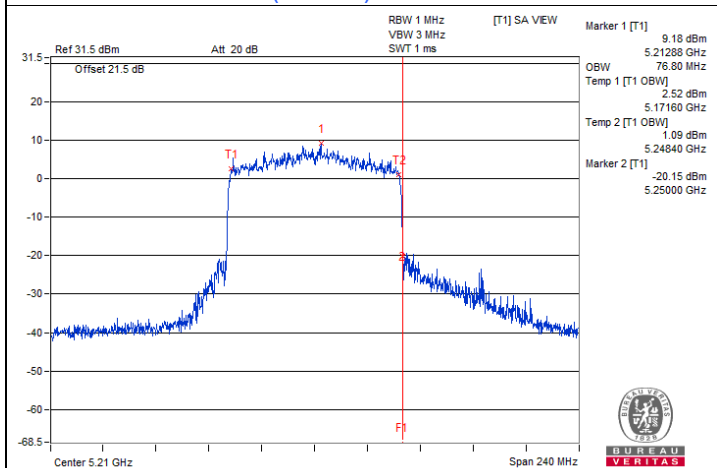
802.11be (EHT80) / Chain 0: CH 42



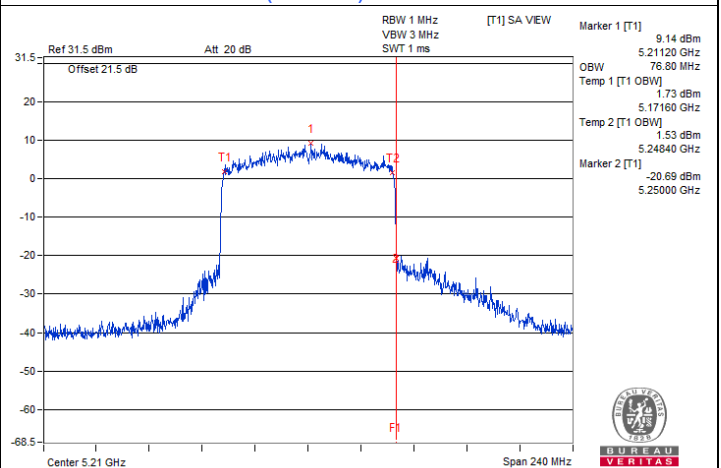
802.11be (EHT80) / Chain 1: CH 42



802.11be (EHT80) / Chain 2: CH 42

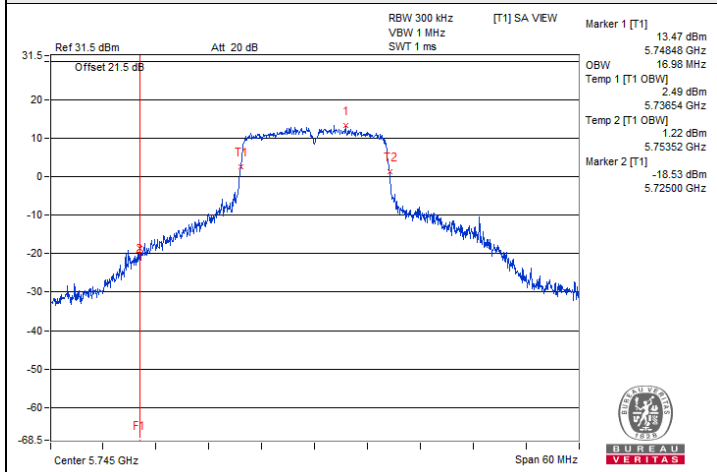


802.11be (EHT80) / Chain 3: CH 42

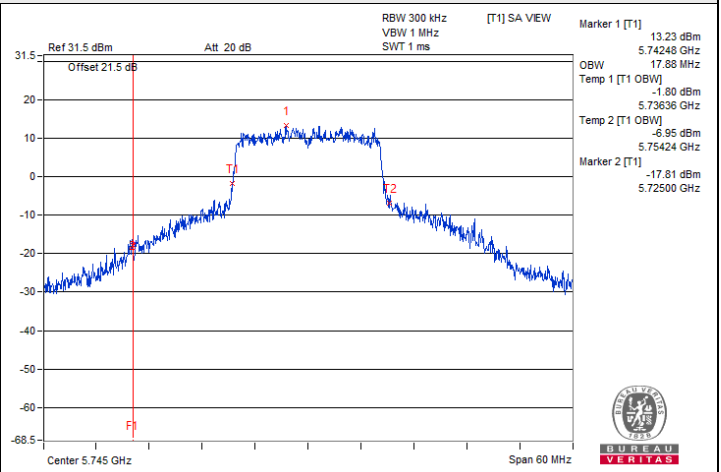


802.11be (EHT80) / Chain 4: CH 42

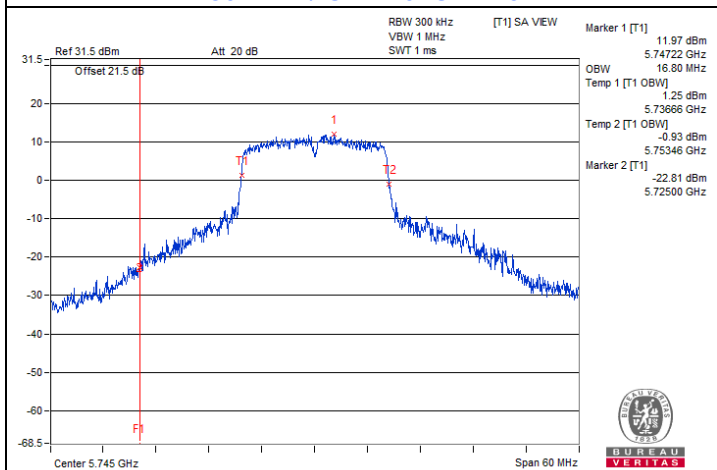
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



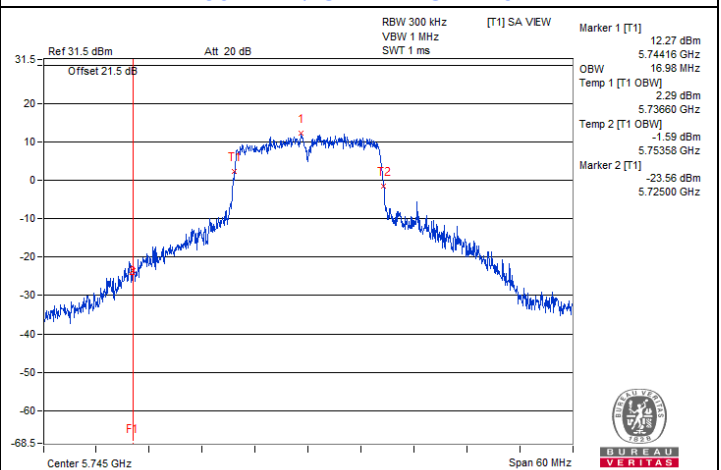
802.11a / Chain 0: CH 149



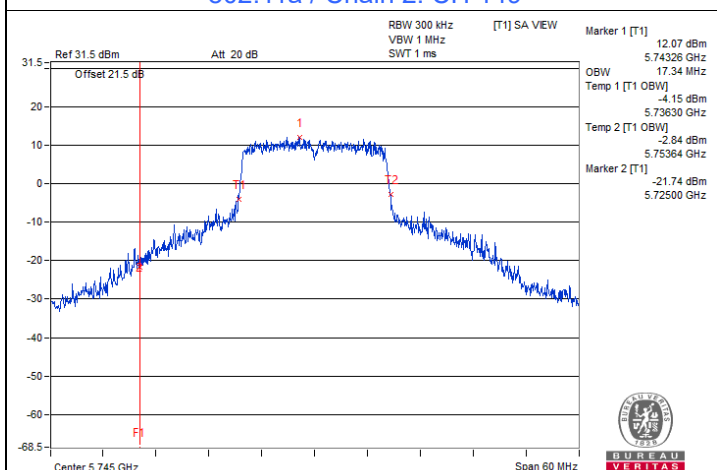
802.11a / Chain 1: CH 149



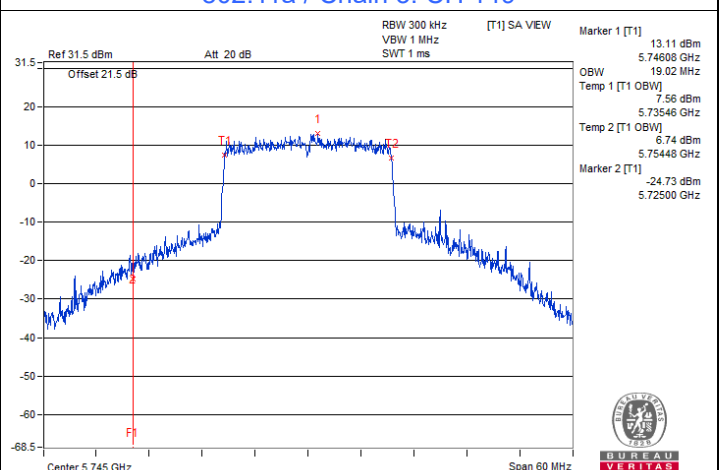
802.11a / Chain 2: CH 149



802.11a / Chain 3: CH 149

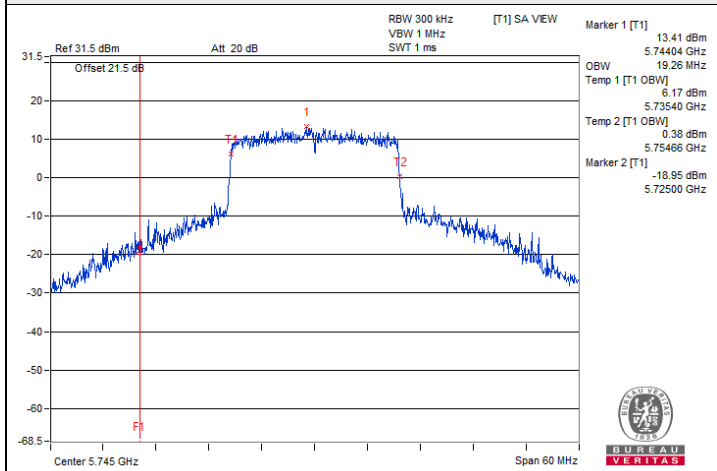


802.11a / Chain 4: CH 149

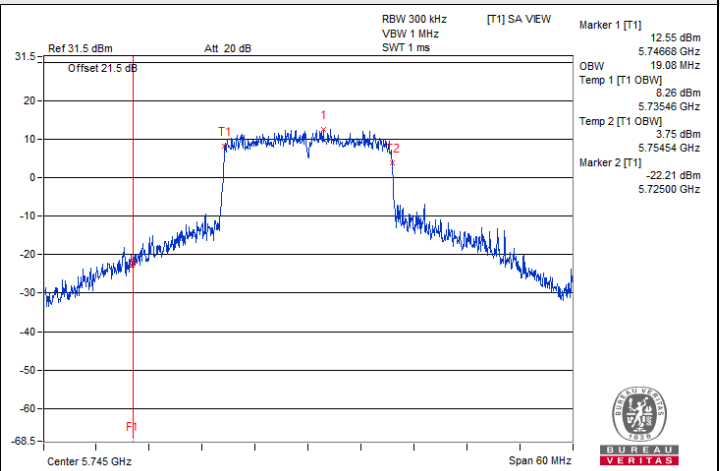


802.11be (EHT20) / Chain 0: CH 149

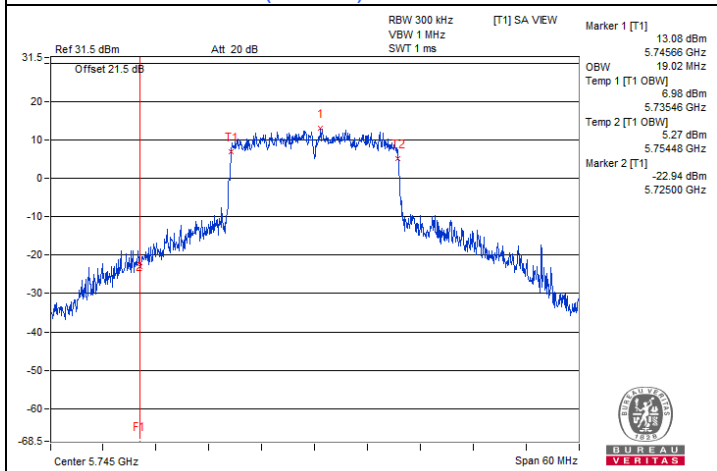
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



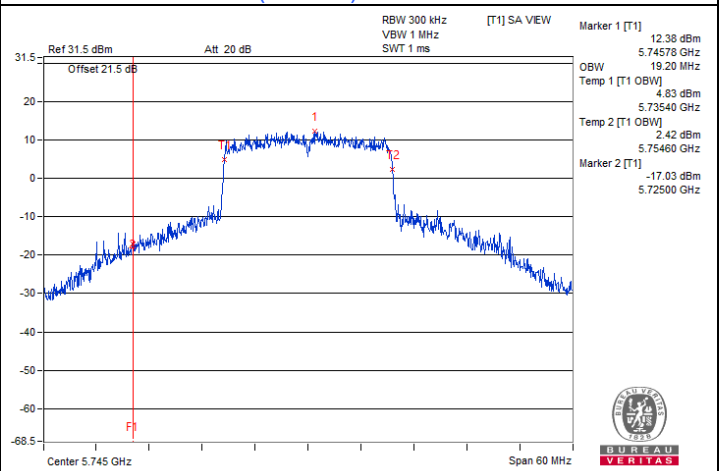
802.11be (EHT20) / Chain 1: CH 149



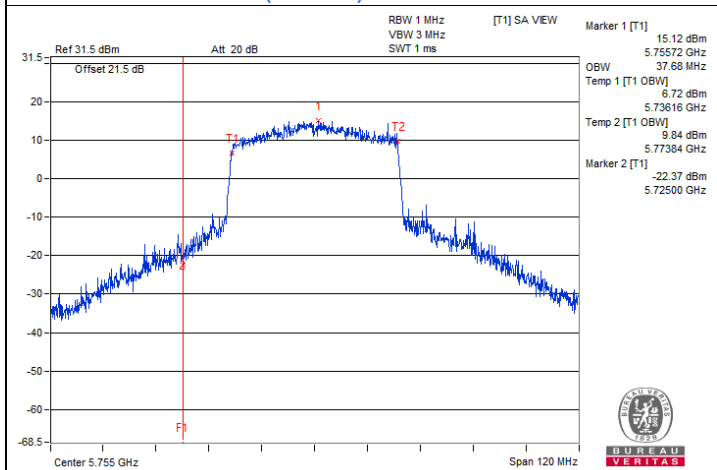
802.11be (EHT20) / Chain 2: CH 149



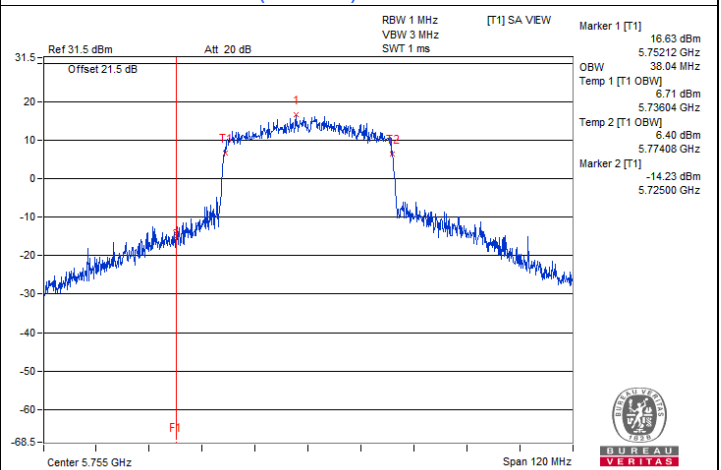
802.11be (EHT20) / Chain 3: CH 149



802.11be (EHT20) / Chain 4: CH 149

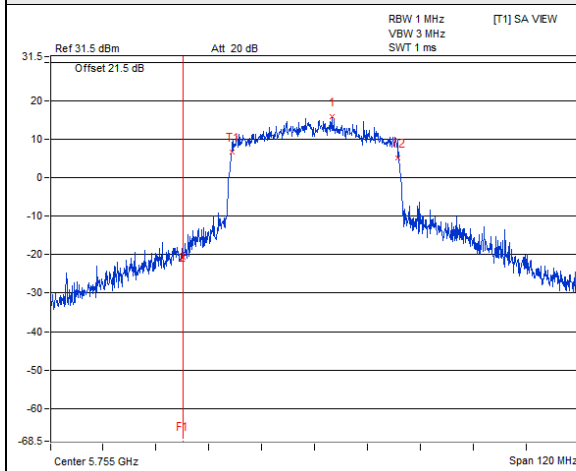


802.11be (EHT40) / Chain 0: CH 151

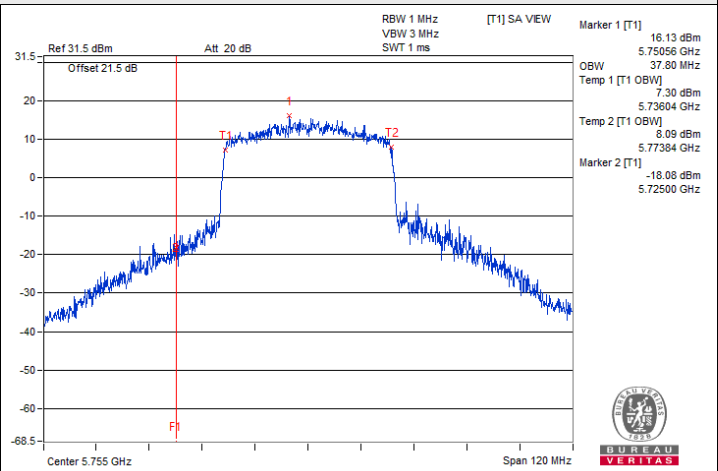


802.11be (EHT40) / Chain 1: CH 151

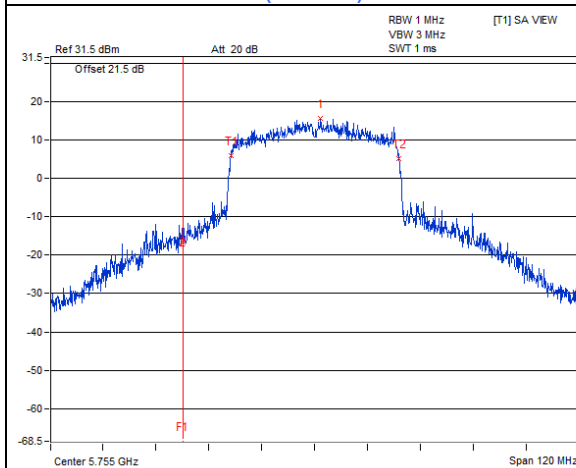
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



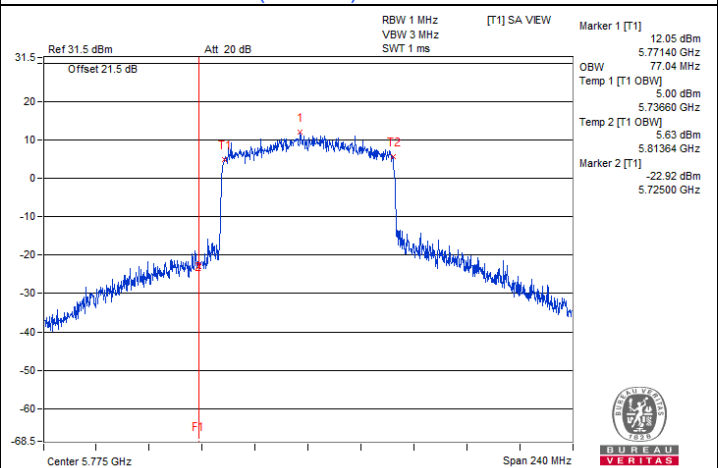
802.11be (EHT40) / Chain 2: CH 151



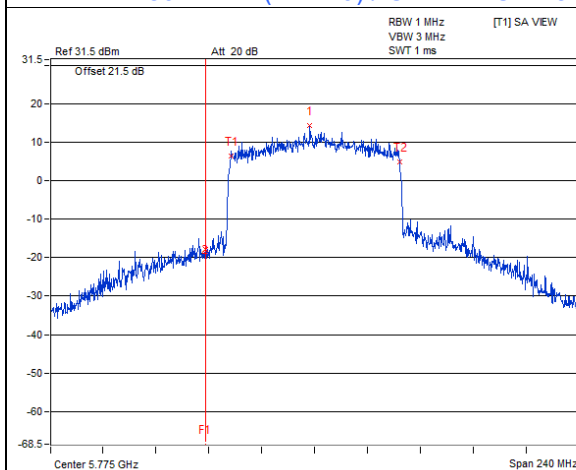
802.11be (EHT40) / Chain 3: CH 151



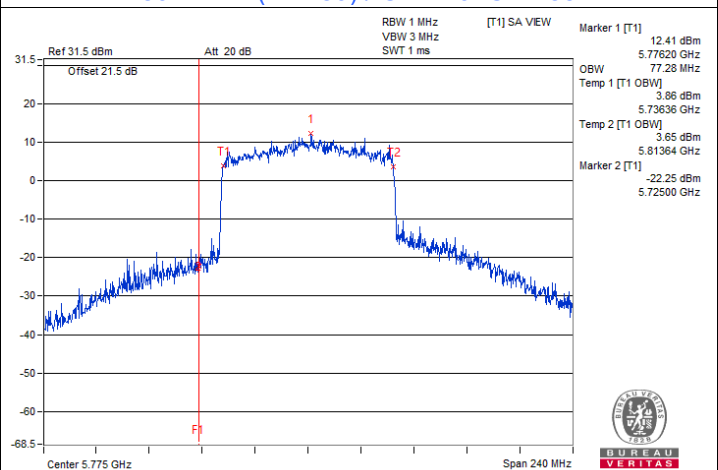
802.11be (EHT40) / Chain 4: CH 151



802.11be (EHT80) / Chain 0: CH 155

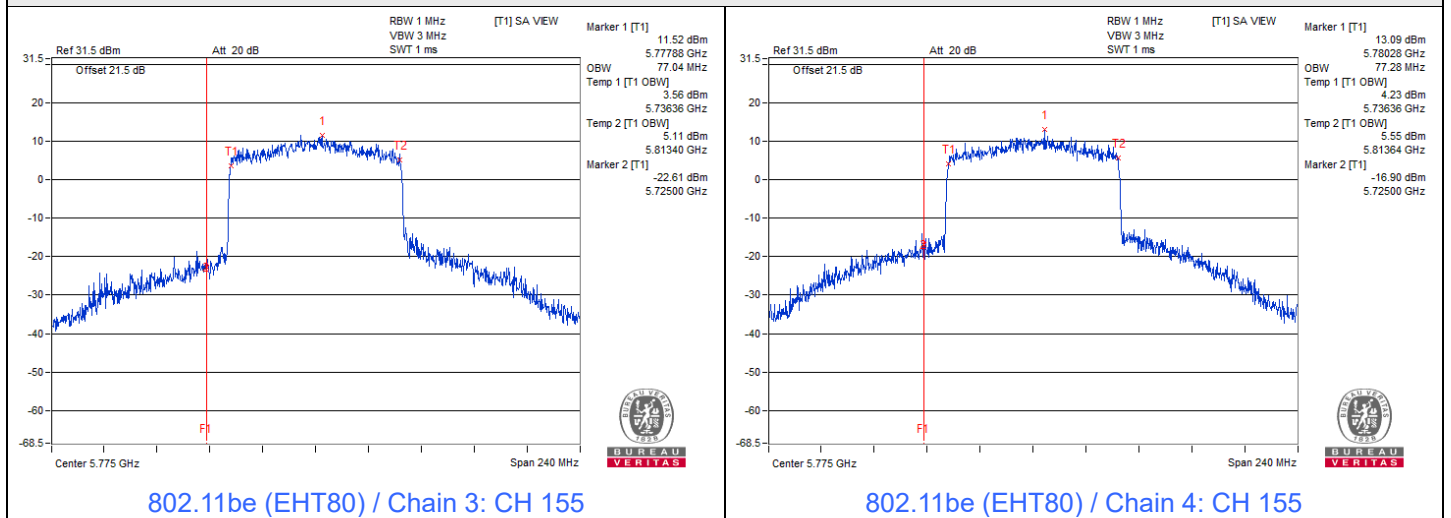


802.11be (EHT80) / Chain 1: CH 155



802.11be (EHT80) / Chain 2: CH 155

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



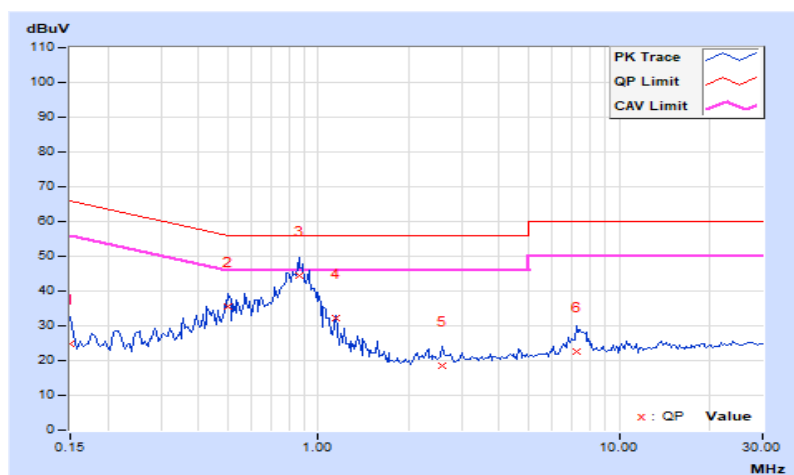
7.5 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Stars Liu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.98	14.87	1.73	24.85	11.71	66.00	56.00	-41.15	-44.29
2	0.50156	10.11	25.56	13.97	35.67	24.08	56.00	46.00	-20.33	-21.92
3	0.86094	10.19	34.08	23.64	44.27	33.83	56.00	46.00	-11.73	-12.17
4	1.14844	10.23	22.10	10.04	32.33	20.27	56.00	46.00	-23.67	-25.73
5	2.58203	10.35	8.01	-3.38	18.36	6.97	56.00	46.00	-37.64	-39.03
6	7.23828	10.73	12.04	2.19	22.77	12.92	60.00	50.00	-37.23	-37.08

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

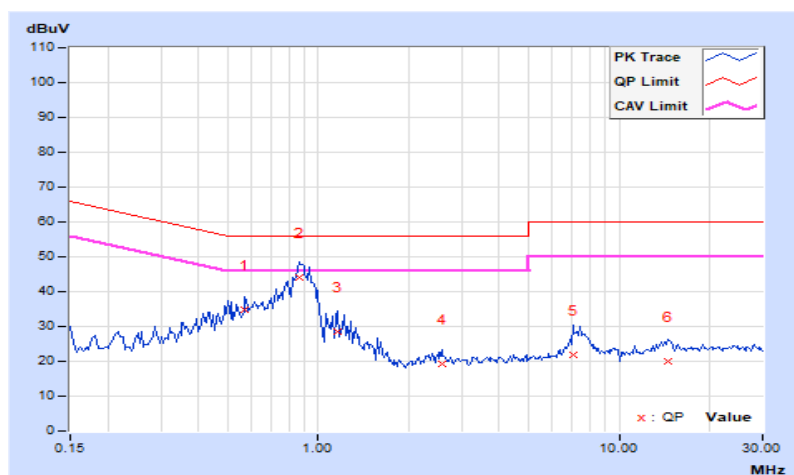


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Stars Liu		

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	0.57188	9.97	24.68	14.76	34.65	24.73	56.00	46.00	-21.35	-21.27
2	0.86094	10.00	34.25	22.58	44.25	32.58	56.00	46.00	-11.75	-13.42
3	1.16016	10.02	18.39	6.53	28.41	16.55	56.00	46.00	-27.59	-29.45
4	2.57422	10.12	9.25	-3.36	19.37	6.76	56.00	46.00	-36.63	-39.24
5	7.02344	10.41	11.47	1.64	21.88	12.05	60.00	50.00	-38.12	-37.95
6	14.55078	10.86	9.23	1.67	20.09	12.53	60.00	50.00	-39.91	-37.47

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



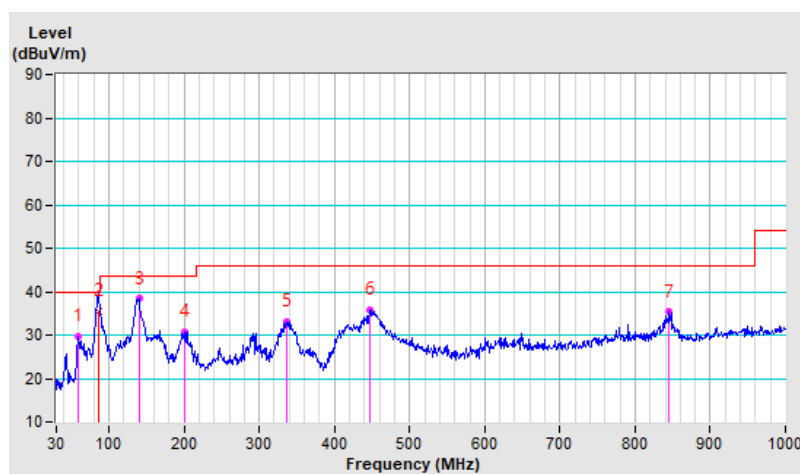
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Owen Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	59.80	29.6 PK	40.0	-10.4	3.00 H	20	43.1	-13.5
2	85.40	35.4 QP	40.0	-4.6	2.32 H	200	54.0	-18.6
3	141.21	38.3 PK	43.5	-5.2	2.00 H	201	51.2	-12.9
4	199.87	30.8 PK	43.5	-12.7	2.00 H	270	46.6	-15.8
5	335.87	33.0 PK	46.0	-13.0	2.00 H	360	43.8	-10.8
6	447.20	35.9 PK	46.0	-10.1	2.00 H	153	44.0	-8.1
7	845.53	35.3 PK	46.0	-10.7	1.00 H	248	36.5	-1.2

Remarks:

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

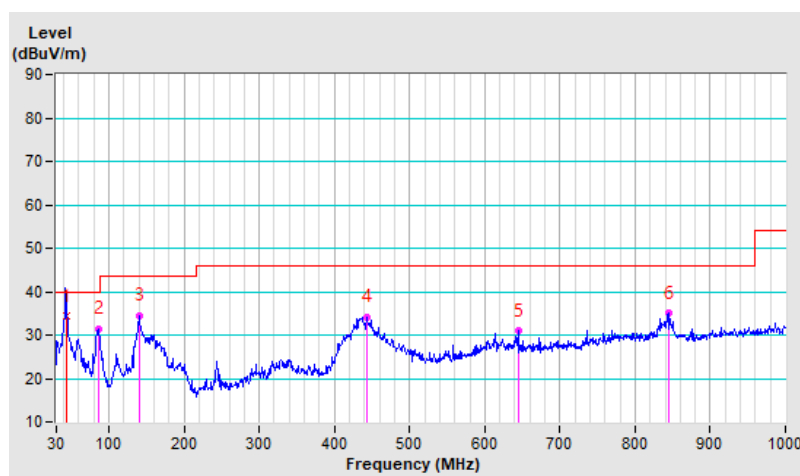


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Owen Lee		

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	43.05	34.3 QP	40.0	-5.7	1.00 V	125	47.3	-13.0
2	85.87	31.3 PK	40.0	-8.7	3.00 V	260	49.9	-18.6
3	140.12	34.5 PK	43.5	-9.0	1.00 V	276	47.5	-13.0
4	442.61	34.1 PK	46.0	-11.9	1.00 V	154	42.3	-8.2
5	644.30	30.9 PK	46.0	-15.1	3.00 V	44	34.9	-4.0
6	843.95	35.0 PK	46.0	-11.0	1.00 V	200	36.2	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The 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 ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	67.4 PK	74.0	-6.6	2.15 H	348	64.4	3.0
2	5150.00	49.5 AV	54.0	-4.5	2.15 H	348	46.5	3.0
3	*5180.00	114.5 PK			2.15 H	348	111.6	2.9
4	*5180.00	105.9 AV			2.15 H	348	103.0	2.9
5	#10360.00	54.3 PK	68.2	-13.9	2.13 H	277	42.9	11.4
6	15540.00	55.7 PK	74.0	-18.3	3.02 H	288	43.9	11.8
7	15540.00	41.4 AV	54.0	-12.6	3.02 H	288	29.6	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	71.0 PK	74.0	-3.0	1.51 V	218	68.0	3.0
2	5150.00	52.6 AV	54.0	-1.4	1.51 V	218	49.6	3.0
3	*5180.00	115.0 PK			1.51 V	218	112.1	2.9
4	*5180.00	106.4 AV			1.51 V	218	103.5	2.9
5	#10360.00	57.8 PK	68.2	-10.4	1.49 V	217	46.4	11.4
6	15540.00	58.1 PK	74.0	-15.9	2.67 V	358	46.3	11.8
7	15540.00	46.8 AV	54.0	-7.2	2.67 V	358	35.0	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 40 : 5200 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	117.7 PK			2.22 H	25	114.9	2.8
2	*5200.00	108.4 AV			2.22 H	25	105.6	2.8
3	#10400.00	56.4 PK	68.2	-11.8	2.13 H	258	45.3	11.1
4	15600.00	58.5 PK	74.0	-15.5	3.13 H	308	46.8	11.7
5	15600.00	42.1 AV	54.0	-11.9	3.13 H	308	30.4	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	117.5 PK			1.73 V	266	114.7	2.8
2	*5200.00	108.7 AV			1.73 V	266	105.9	2.8
3	#10400.00	60.7 PK	68.2	-7.5	1.36 V	252	49.6	11.1
4	15600.00	61.4 PK	74.0	-12.6	2.63 V	340	49.7	11.7
5	15600.00	49.4 AV	54.0	-4.6	2.63 V	340	37.7	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	118.5 PK			3.44 H	4	115.9	2.6
2	*5240.00	108.6 AV			3.44 H	4	106.0	2.6
3	5350.00	51.8 PK	74.0	-22.2	3.44 H	4	48.9	2.9
4	5350.00	39.9 AV	54.0	-14.1	3.44 H	4	37.0	2.9
5	#10480.00	57.0 PK	68.2	-11.2	2.01 H	256	44.7	12.3
6	15720.00	58.4 PK	74.0	-15.6	2.98 H	295	46.9	11.5
7	15720.00	43.4 AV	54.0	-10.6	2.98 H	295	31.9	11.5
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	*5240.00	118.7 PK			1.96 V	130	116.1	2.6
2	*5240.00	108.6 AV			1.96 V	130	106.0	2.6
3	5350.00	52.1 PK	74.0	-21.9	1.96 V	130	49.2	2.9
4	5350.00	40.0 AV	54.0	-14.0	1.96 V	130	37.1	2.9
5	#10480.00	59.9 PK	68.2	-8.3	1.33 V	235	47.6	12.3
6	15720.00	60.4 PK	74.0	-13.6	2.71 V	360	48.9	11.5
7	15720.00	48.0 AV	54.0	-6.0	2.71 V	360	36.5	11.5

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	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	#5612.78	51.8 PK	68.2	-16.4	3.30 H	180	48.7	3.1
2	*5745.00	118.2 PK			3.30 H	180	115.4	2.8
3	*5745.00	108.8 AV			3.30 H	180	106.0	2.8
4	#5987.34	50.9 PK	68.2	-17.3	3.30 H	180	47.6	3.3
5	11490.00	56.4 PK	74.0	-17.6	3.56 H	251	44.4	12.0
6	11490.00	40.4 AV	54.0	-13.6	3.56 H	251	28.4	12.0
7	#17235.00	56.9 PK	68.2	-11.3	1.41 H	88	40.4	16.5
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	#5576.61	53.4 PK	68.2	-14.8	1.78 V	222	50.5	2.9
2	*5745.00	119.5 PK			1.78 V	222	116.7	2.8
3	*5745.00	109.4 AV			1.78 V	222	106.6	2.8
4	#5942.20	52.0 PK	68.2	-16.2	1.78 V	222	48.7	3.3
5	11490.00	59.9 PK	74.0	-14.1	3.23 V	67	47.9	12.0
6	11490.00	44.4 AV	54.0	-9.6	3.23 V	67	32.4	12.0
7	#17235.00	61.7 PK	68.2	-6.5	2.21 V	15	45.2	16.5

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	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	#5588.32	51.7 PK	68.2	-16.5	3.32 H	25	48.7	3.0
2	*5785.00	117.9 PK			3.32 H	25	114.8	3.1
3	*5785.00	108.4 AV			3.32 H	25	105.3	3.1
4	#5973.20	51.5 PK	68.2	-16.7	3.32 H	25	48.2	3.3
5	11570.00	57.0 PK	74.0	-17.0	3.31 H	254	45.2	11.8
6	11570.00	41.3 AV	54.0	-12.7	3.31 H	254	29.5	11.8
7	#17355.00	57.1 PK	68.2	-11.1	1.32 H	91	39.8	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	#5627.88	52.7 PK	68.2	-15.5	1.68 V	259	49.9	2.8
2	*5785.00	119.0 PK			1.68 V	259	115.9	3.1
3	*5785.00	109.1 AV			1.68 V	259	106.0	3.1
4	#6006.02	52.4 PK	68.2	-15.8	1.68 V	259	49.3	3.1
5	11570.00	60.2 PK	74.0	-13.8	3.64 V	25	48.4	11.8
6	11570.00	45.3 AV	54.0	-8.7	3.64 V	25	33.5	11.8
7	#17355.00	61.1 PK	68.2	-7.1	2.31 V	28	43.8	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 165 : 5825 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5592.96	52.7 PK	68.2	-15.5	3.31 H	182	49.6	3.1
2	*5825.00	117.9 PK			3.31 H	182	114.8	3.1
3	*5825.00	108.2 AV			3.31 H	182	105.1	3.1
4	#5926.79	52.0 PK	68.2	-16.2	3.31 H	182	48.8	3.2
5	11650.00	56.9 PK	74.0	-17.1	3.23 H	264	45.4	11.5
6	11650.00	41.2 AV	54.0	-12.8	3.23 H	264	29.7	11.5
7	#17475.00	58.6 PK	68.2	-9.6	1.31 H	105	40.7	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	#5633.77	53.5 PK	68.2	-14.7	1.66 V	232	50.7	2.8
2	*5825.00	118.5 PK			1.66 V	232	115.4	3.1
3	*5825.00	108.9 AV			1.66 V	232	105.8	3.1
4	#5943.62	53.2 PK	68.2	-15.0	1.66 V	232	49.9	3.3
5	11650.00	59.4 PK	74.0	-14.6	3.55 V	7	47.9	11.5
6	11650.00	43.9 AV	54.0	-10.1	3.55 V	7	32.4	11.5
7	#17475.00	61.6 PK	68.2	-6.6	2.12 V	31	43.7	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.

RF Mode	802.11be (EHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	2.37 H	173	63.8	3.0
2	5150.00	51.7 AV	54.0	-2.3	2.37 H	173	48.7	3.0
3	*5180.00	116.7 PK			2.37 H	173	113.8	2.9
4	*5180.00	105.9 AV			2.37 H	173	103.0	2.9
5	#10360.00	52.2 PK	68.2	-16.0	2.28 H	257	40.8	11.4
6	15540.00	54.8 PK	74.0	-19.2	1.00 H	0	43.0	11.8
7	15540.00	39.5 AV	54.0	-14.5	1.00 H	0	27.7	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	70.7 PK	74.0	-3.3	1.26 V	244	67.7	3.0
2	5150.00	53.5 AV	54.0	-0.5	1.26 V	244	50.5	3.0
3	*5180.00	117.6 PK			1.26 V	244	114.7	2.9
4	*5180.00	107.7 AV			1.26 V	244	104.8	2.9
5	#10360.00	57.7 PK	68.2	-10.5	1.51 V	219	46.3	11.4
6	15540.00	59.0 PK	74.0	-15.0	2.71 V	353	47.2	11.8
7	15540.00	47.4 AV	54.0	-6.6	2.71 V	353	35.6	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	802.11be (EHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	118.9 PK			2.66 H	177	116.1	2.8
2	*5200.00	108.0 AV			2.66 H	177	105.2	2.8
3	#10400.00	56.3 PK	68.2	-11.9	2.28 H	257	45.2	11.1
4	15600.00	57.2 PK	74.0	-16.8	1.57 H	98	45.5	11.7
5	15600.00	43.5 AV	54.0	-10.5	1.57 H	98	31.8	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	119.0 PK			1.75 V	226	116.2	2.8
2	*5200.00	108.4 AV			1.75 V	226	105.6	2.8
3	#10400.00	60.9 PK	68.2	-7.3	1.33 V	249	49.8	11.1
4	15600.00	60.4 PK	74.0	-13.6	2.58 V	326	48.7	11.7
5	15600.00	49.5 AV	54.0	-4.5	2.58 V	326	37.8	11.7

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	117.0 PK			2.53 H	174	114.4	2.6
2	*5240.00	107.9 AV			2.53 H	174	105.3	2.6
3	5350.00	52.4 PK	74.0	-21.6	2.53 H	174	49.5	2.9
4	5350.00	39.8 AV	54.0	-14.2	2.53 H	174	36.9	2.9
5	#10480.00	55.4 PK	68.2	-12.8	2.17 H	249	43.1	12.3
6	15720.00	57.6 PK	74.0	-16.4	1.50 H	107	46.1	11.5
7	15720.00	43.2 AV	54.0	-10.8	1.50 H	107	31.7	11.5
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	*5240.00	118.1 PK			1.71 V	207	115.5	2.6
2	*5240.00	108.2 AV			1.71 V	207	105.6	2.6
3	5350.00	52.2 PK	74.0	-21.8	1.71 V	207	49.3	2.9
4	5350.00	39.5 AV	54.0	-14.5	1.71 V	207	36.6	2.9
5	#10480.00	60.4 PK	68.2	-7.8	1.33 V	228	48.1	12.3
6	15720.00	61.1 PK	74.0	-12.9	2.69 V	351	49.6	11.5
7	15720.00	49.3 AV	54.0	-4.7	2.69 V	351	37.8	11.5

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 (EHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.28	52.6 PK	68.2	-15.6	3.43 H	188	49.8	2.8
2	*5745.00	118.5 PK			3.43 H	188	115.7	2.8
3	*5745.00	107.7 AV			3.43 H	188	104.9	2.8
4	#5943.10	51.6 PK	68.2	-16.6	3.43 H	188	48.3	3.3
5	11490.00	55.7 PK	74.0	-18.3	2.27 H	236	43.7	12.0
6	11490.00	39.9 AV	54.0	-14.1	2.27 H	236	27.9	12.0
7	#17235.00	56.9 PK	68.2	-11.3	1.41 H	126	40.4	16.5
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	#5646.98	54.8 PK	68.2	-13.4	1.00 V	0	52.0	2.8
2	*5745.00	118.6 PK			3.00 V	289	115.8	2.8
3	*5745.00	108.6 AV			3.00 V	289	105.8	2.8
4	#5967.60	51.7 PK	68.2	-16.5	1.00 V	0	48.4	3.3
5	11490.00	61.0 PK	74.0	-13.0	1.36 V	265	49.0	12.0
6	11490.00	43.9 AV	54.0	-10.1	1.36 V	265	31.9	12.0
7	#17235.00	60.8 PK	68.2	-7.4	2.63 V	344	44.3	16.5

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 (EHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	#5515.24	52.9 PK	68.2	-15.3	3.30 H	193	50.1	2.8
2	*5785.00	119.6 PK			3.30 H	193	116.5	3.1
3	*5785.00	108.0 AV			3.30 H	193	104.9	3.1
4	#5904.23	51.9 PK	68.2	-16.3	3.30 H	193	48.9	3.0
5	11570.00	55.4 PK	74.0	-18.6	2.16 H	250	43.6	11.8
6	11570.00	40.5 AV	54.0	-13.5	2.16 H	250	28.7	11.8
7	#17355.00	56.7 PK	68.2	-11.5	1.86 H	120	39.4	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	#5585.48	52.6 PK	68.2	-15.6	1.64 V	130	49.6	3.0
2	*5785.00	119.6 PK			1.64 V	130	116.5	3.1
3	*5785.00	108.9 AV			1.64 V	130	105.8	3.1
4	#5954.06	52.0 PK	68.2	-16.2	1.64 V	130	48.6	3.4
5	11570.00	59.6 PK	74.0	-14.4	1.40 V	264	47.8	11.8
6	11570.00	44.5 AV	54.0	-9.5	1.40 V	264	32.7	11.8
7	#17355.00	60.0 PK	68.2	-8.2	2.59 V	328	42.7	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 165 : 5825 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5557.12	51.8 PK	68.2	-16.4	3.24 H	165	48.9	2.9
2	*5825.00	119.4 PK			3.24 H	165	116.3	3.1
3	*5825.00	108.2 AV			3.24 H	165	105.1	3.1
4	#5939.01	51.4 PK	68.2	-16.8	3.24 H	165	48.1	3.3
5	11650.00	55.5 PK	74.0	-18.5	2.46 H	273	44.0	11.5
6	11650.00	40.3 AV	54.0	-13.7	2.46 H	273	28.8	11.5
7	#17475.00	58.2 PK	68.2	-10.0	1.53 H	119	40.3	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	#5617.32	53.0 PK	68.2	-15.2	1.63 V	128	49.9	3.1
2	*5825.00	119.7 PK			1.63 V	128	116.6	3.1
3	*5825.00	109.0 AV			1.63 V	128	105.9	3.1
4	#5927.95	53.5 PK	68.2	-14.7	1.63 V	128	50.3	3.2
5	11650.00	59.6 PK	74.0	-14.4	1.52 V	203	48.1	11.5
6	11650.00	44.2 AV	54.0	-9.8	1.52 V	203	32.7	11.5
7	#17475.00	60.4 PK	68.2	-7.8	2.66 V	343	42.5	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.

RF Mode	802.11be (EHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	2.52 H	15	59.4	3.0
2	5150.00	46.3 AV	54.0	-7.7	2.52 H	15	43.3	3.0
3	*5190.00	113.8 PK			2.52 H	15	111.0	2.8
4	*5190.00	103.7 AV			2.52 H	15	100.9	2.8
5	#10380.00	50.2 PK	68.2	-18.0	2.38 H	251	38.9	11.3
6	15570.00	51.9 PK	74.0	-22.1	1.43 H	133	40.2	11.7
7	15570.00	37.0 AV	54.0	-17.0	1.43 H	133	25.3	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.89 V	246	63.8	3.0
2	5150.00	52.8 AV	54.0	-1.2	1.89 V	246	49.8	3.0
3	*5190.00	113.7 PK			1.89 V	246	110.9	2.8
4	*5190.00	103.7 AV			1.89 V	246	100.9	2.8
5	#10380.00	55.0 PK	68.2	-13.2	2.14 V	168	43.7	11.3
6	15570.00	55.4 PK	74.0	-18.6	1.54 V	0	43.7	11.7
7	15570.00	43.7 AV	54.0	-10.3	1.54 V	0	32.0	11.7

Remarks:

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

RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	60.3 PK	74.0	-13.7	2.38 H	331	57.3	3.0
2	5150.00	47.7 AV	54.0	-6.3	2.38 H	331	44.7	3.0
3	*5230.00	115.0 PK			2.38 H	331	112.4	2.6
4	*5230.00	104.7 AV			2.38 H	331	102.1	2.6
5	#10460.00	54.3 PK	68.2	-13.9	2.58 H	295	42.3	12.0
6	15690.00	55.9 PK	74.0	-18.1	1.42 H	110	44.4	11.5
7	15690.00	40.5 AV	54.0	-13.5	1.42 H	110	29.0	11.5
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	5150.00	64.0 PK	74.0	-10.0	1.86 V	252	61.0	3.0
2	5150.00	48.0 AV	54.0	-6.0	1.86 V	252	45.0	3.0
3	*5230.00	117.6 PK			1.86 V	252	115.0	2.6
4	*5230.00	106.2 AV			1.86 V	252	103.6	2.6
5	#10460.00	58.4 PK	68.2	-9.8	2.15 V	180	46.4	12.0
6	15690.00	59.6 PK	74.0	-14.4	1.54 V	35	48.1	11.5
7	15690.00	46.8 AV	54.0	-7.2	1.54 V	35	35.3	11.5

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 151 : 5755 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	#5637.16	62.5 PK	68.2	-5.7	3.81 H	203	59.7	2.8
2	*5755.00	118.3 PK			3.81 H	203	115.5	2.8
3	*5755.00	106.8 AV			3.81 H	203	104.0	2.8
4	#5947.21	54.3 PK	68.2	-13.9	3.81 H	203	51.0	3.3
5	11510.00	53.3 PK	74.0	-20.7	2.44 H	284	41.4	11.9
6	11510.00	39.3 AV	54.0	-14.7	2.44 H	284	27.4	11.9
7	#17265.00	54.9 PK	68.2	-13.3	1.63 H	103	38.4	16.5
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	#5648.66	62.3 PK	68.2	-5.9	3.99 V	289	59.5	2.8
2	*5755.00	116.2 PK			3.99 V	289	113.4	2.8
3	*5755.00	105.2 AV			3.99 V	289	102.4	2.8
4	#5937.71	52.7 PK	68.2	-15.5	3.99 V	289	49.4	3.3
5	11510.00	58.8 PK	74.0	-15.2	2.10 V	177	46.9	11.9
6	11510.00	43.0 AV	54.0	-11.0	2.10 V	177	31.1	11.9
7	#17265.00	59.8 PK	68.2	-8.4	1.59 V	31	43.3	16.5

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 ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	#5605.31	53.8 PK	68.2	-14.4	3.18 H	182	50.7	3.1
2	*5795.00	115.9 PK			3.18 H	182	112.8	3.1
3	*5795.00	106.0 AV			3.18 H	182	102.9	3.1
4	#5929.10	57.1 PK	68.2	-11.1	3.18 H	182	53.9	3.2
5	11590.00	54.9 PK	74.0	-19.1	2.54 H	287	43.1	11.8
6	11590.00	39.2 AV	54.0	-14.8	2.54 H	287	27.4	11.8
7	#17385.00	55.8 PK	68.2	-12.4	1.37 H	117	37.9	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	#5638.31	56.9 PK	68.2	-11.3	3.81 V	295	54.1	2.8
2	*5795.00	117.6 PK			3.81 V	295	114.5	3.1
3	*5795.00	106.3 AV			3.81 V	295	103.2	3.1
4	#5938.00	57.6 PK	68.2	-10.6	3.81 V	295	54.3	3.3
5	11590.00	57.8 PK	74.0	-16.2	2.09 V	182	46.0	11.8
6	11590.00	43.2 AV	54.0	-10.8	2.09 V	182	31.4	11.8
7	#17385.00	59.8 PK	68.2	-8.4	1.49 V	25	41.9	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.

RF Mode	802.11be (EHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

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	60.2 PK	74.0	-13.8	2.93 H	199	57.2	3.0
2	5150.00	48.8 AV	54.0	-5.2	2.93 H	199	45.8	3.0
3	*5210.00	109.1 PK			2.93 H	199	106.4	2.7
4	*5210.00	99.5 AV			2.93 H	199	96.8	2.7
5	#10420.00	49.7 PK	68.2	-18.5	2.21 H	265	38.3	11.4
6	15630.00	51.9 PK	74.0	-22.1	2.20 H	233	40.2	11.7
7	15630.00	38.0 AV	54.0	-16.0	2.20 H	233	26.3	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.80 V	207	62.8	3.0
2	5150.00	53.2 AV	54.0	-0.8	1.80 V	207	50.2	3.0
3	*5210.00	110.9 PK			1.80 V	207	108.2	2.7
4	*5210.00	100.4 AV			1.80 V	207	97.7	2.7
5	#10420.00	52.6 PK	68.2	-15.6	1.21 V	231	41.2	11.4
6	15630.00	54.9 PK	74.0	-19.1	1.92 V	171	43.2	11.7
7	15630.00	42.9 AV	54.0	-11.1	1.92 V	171	31.2	11.7

Remarks:

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

RF Mode	802.11be (EHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 69% RH
Tested By	Stars Liu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.26	62.8 PK	68.2	-5.4	3.31 H	192	60.0	2.8
2	*5775.00	112.7 PK			3.31 H	192	109.8	2.9
3	*5775.00	103.4 AV			3.31 H	192	100.5	2.9
4	#5937.89	59.6 PK	68.2	-8.6	3.31 H	192	56.3	3.3
5	11550.00	49.7 PK	74.0	-24.3	3.11 H	254	37.9	11.8
6	11550.00	35.1 AV	54.0	-18.9	3.11 H	254	23.3	11.8
7	#17325.00	52.5 PK	68.2	-15.7	1.21 H	83	35.7	16.8
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	#5647.93	65.1 PK	68.2	-3.1	1.70 V	251	62.3	2.8
2	*5775.00	113.4 PK			1.70 V	251	110.5	2.9
3	*5775.00	103.7 AV			1.70 V	251	100.8	2.9
4	#5937.33	61.7 PK	68.2	-6.5	1.70 V	251	58.4	3.3
5	11550.00	51.7 PK	74.0	-22.3	3.51 V	32	39.9	11.8
6	11550.00	35.7 AV	54.0	-18.3	3.51 V	32	23.9	11.8
7	#17325.00	52.1 PK	68.2	-16.1	2.21 V	25	35.3	16.8

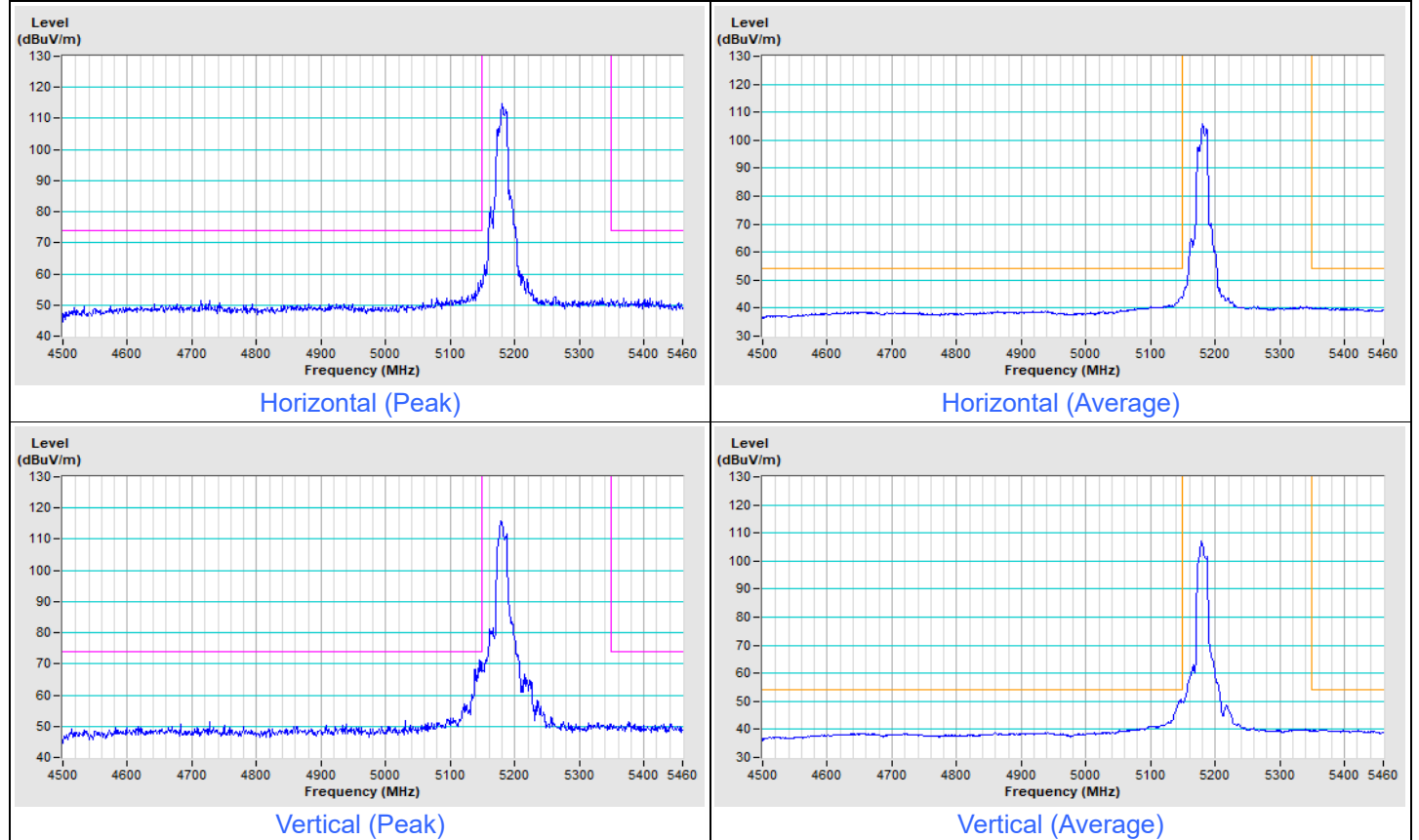
Remarks:

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.

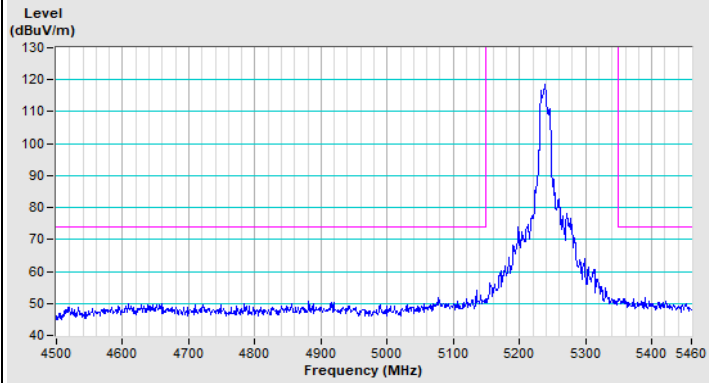
Plot of Band Edge

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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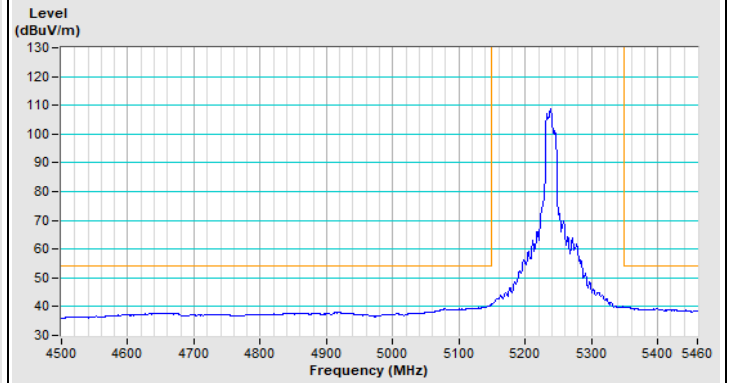
802.11a Channel 36



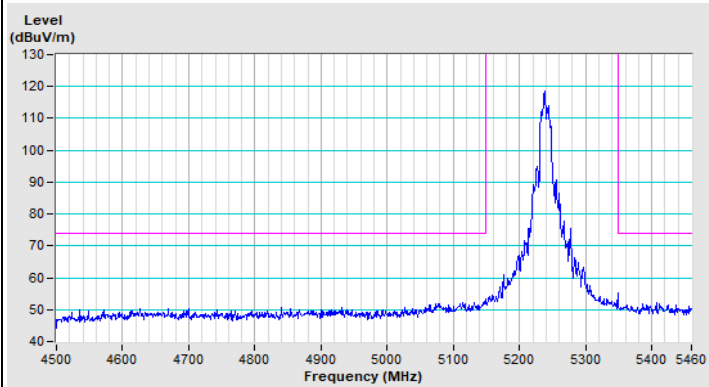
802.11a Channel 48



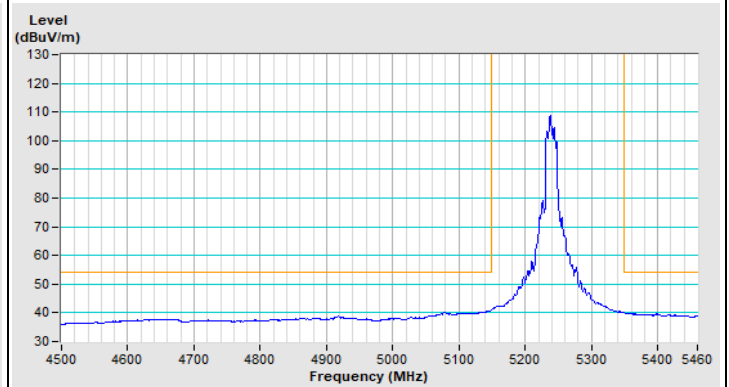
Horizontal (Peak)



Horizontal (Average)



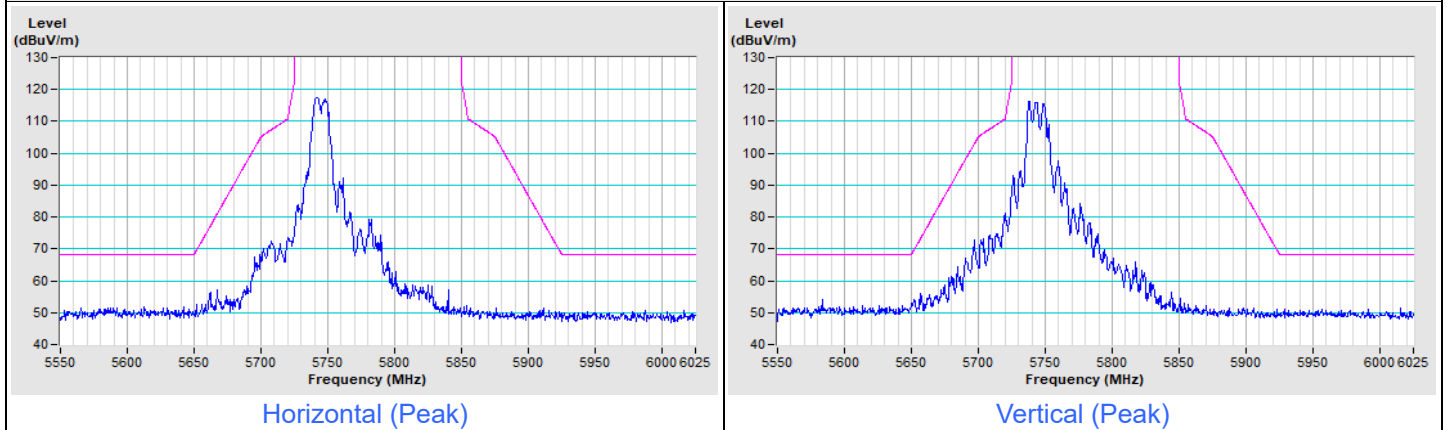
Vertical (Peak)



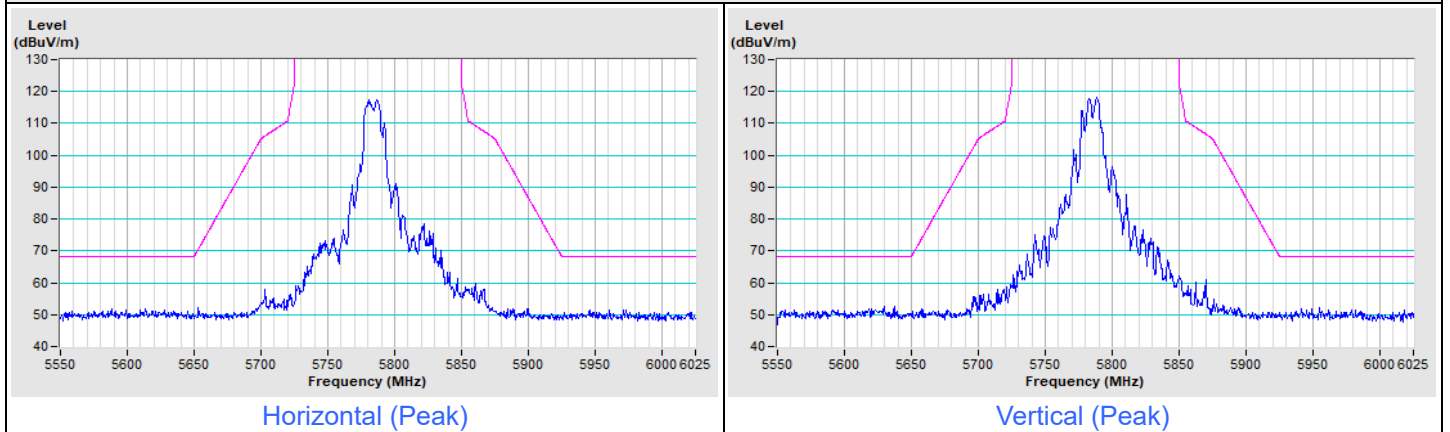
Vertical (Average)

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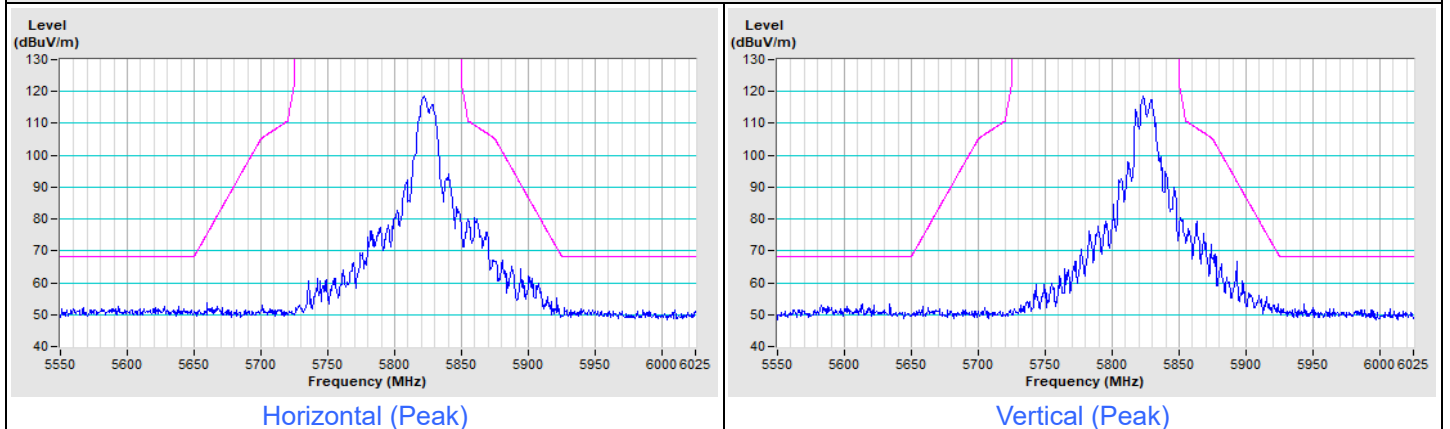
802.11a Channel 149



802.11a Channel 157

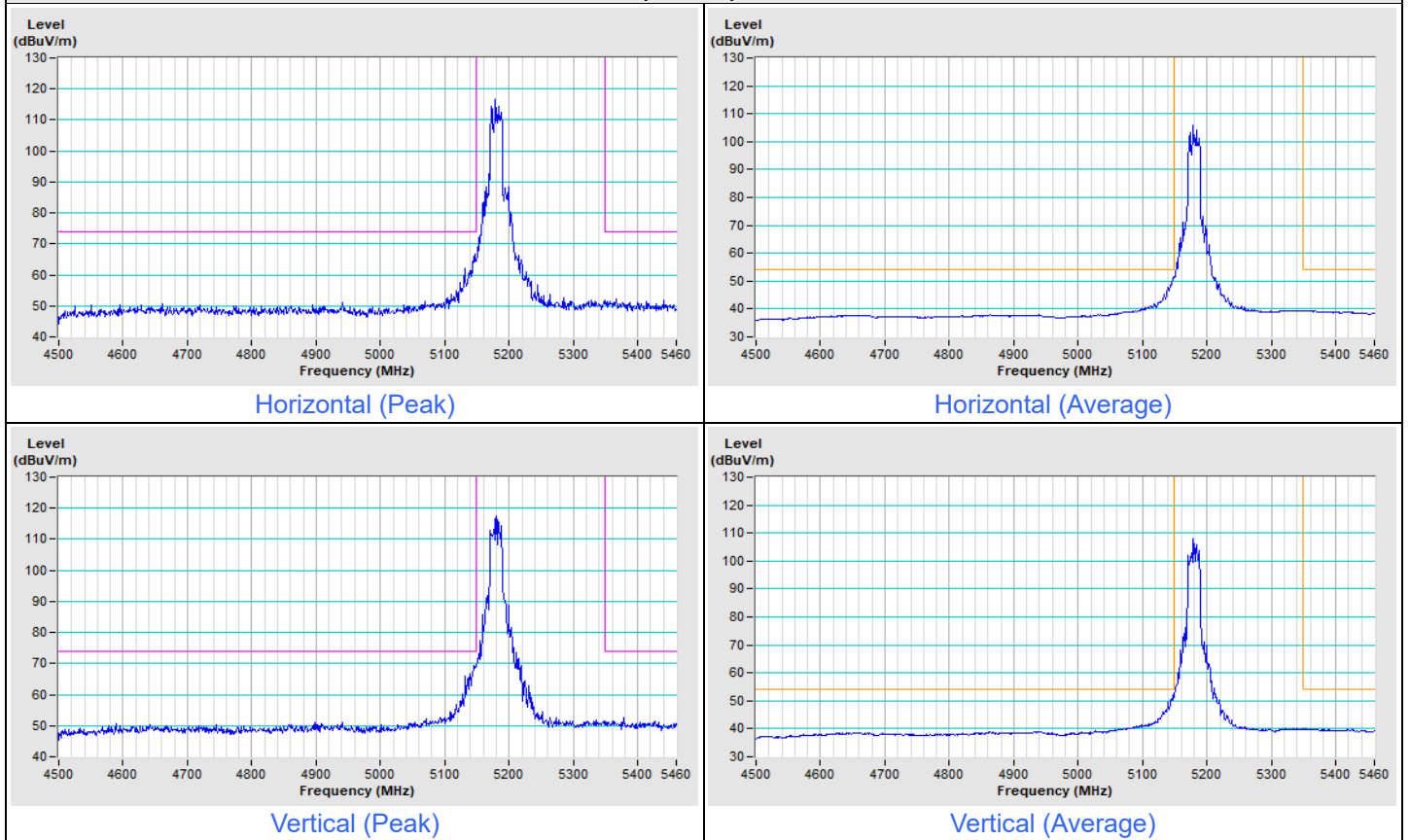


802.11a Channel 165

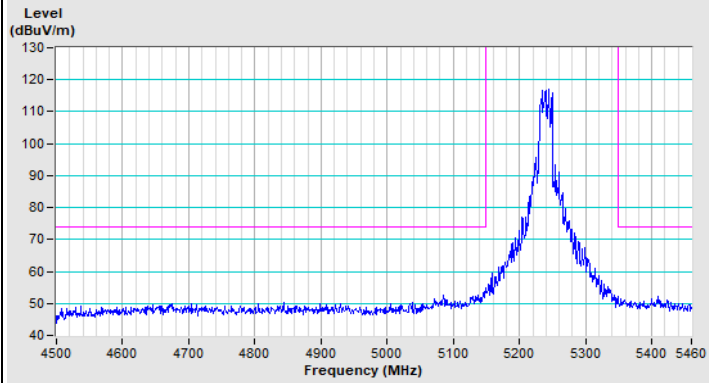


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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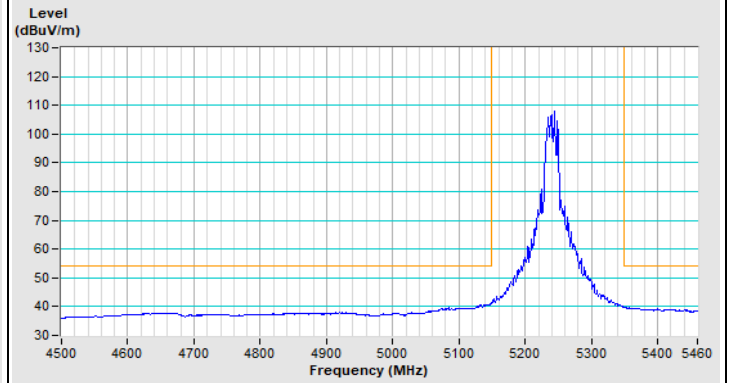
802.11be (EHT20) Channel 36



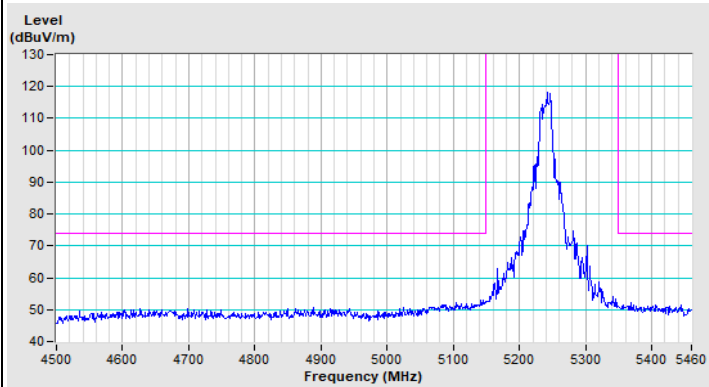
802.11be (EHT20) Channel 48



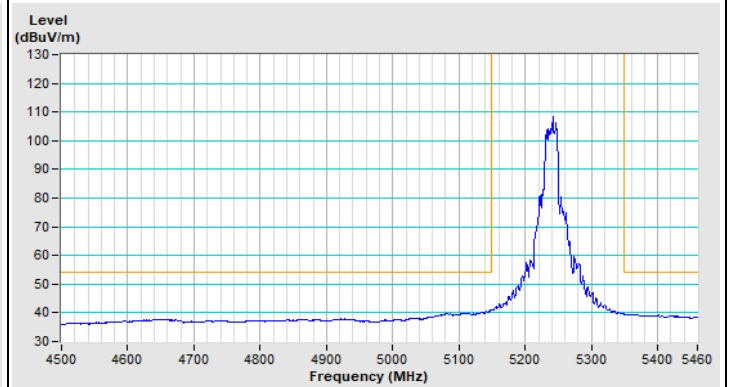
Horizontal (Peak)



Horizontal (Average)



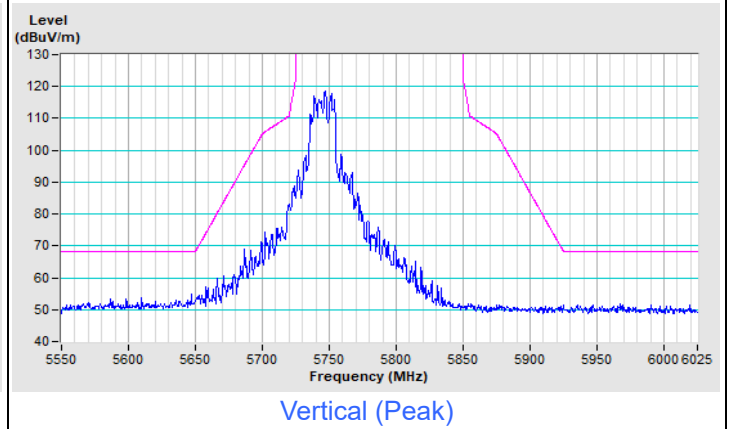
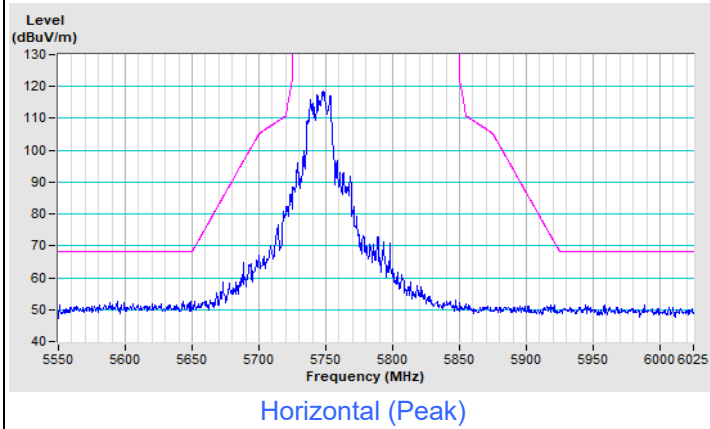
Vertical (Peak)



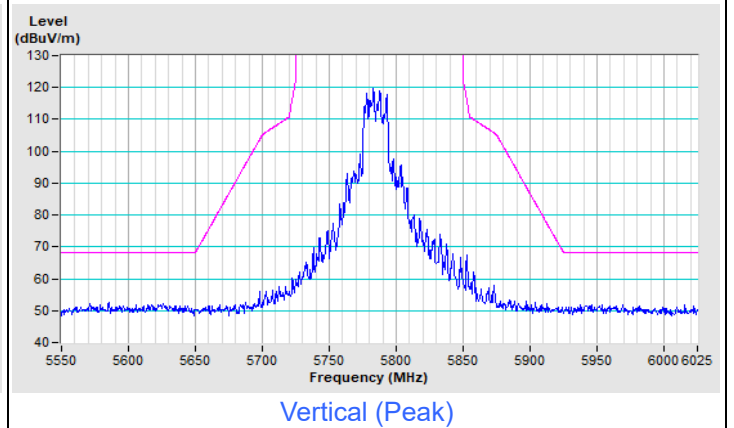
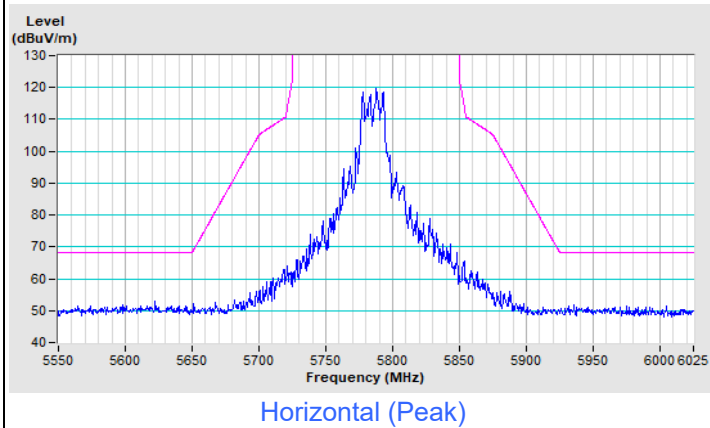
Vertical (Average)

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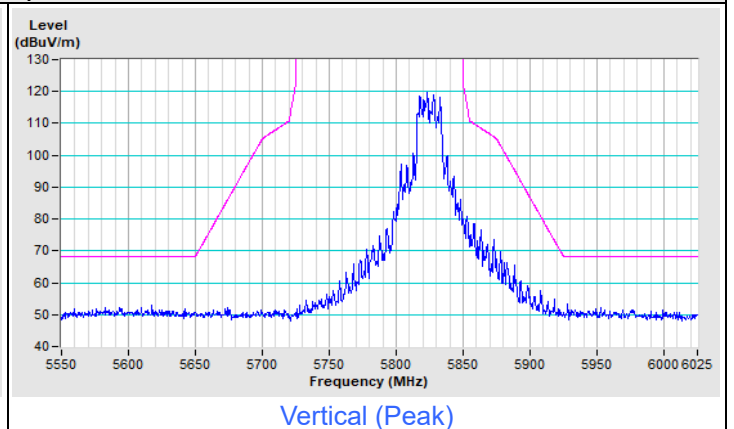
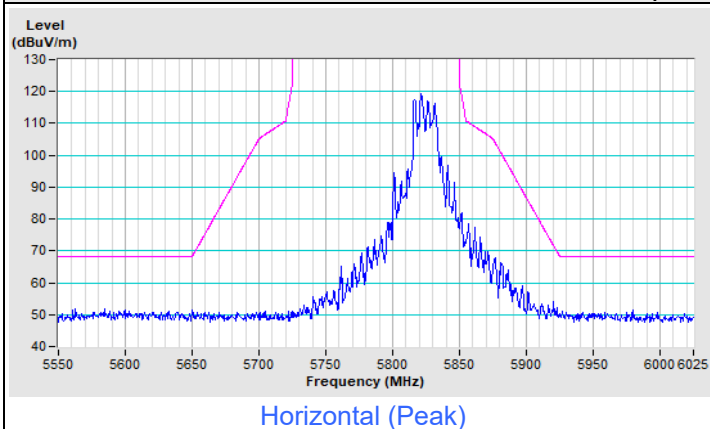
802.11be (EHT20) Channel 149



802.11be (EHT20) Channel 157

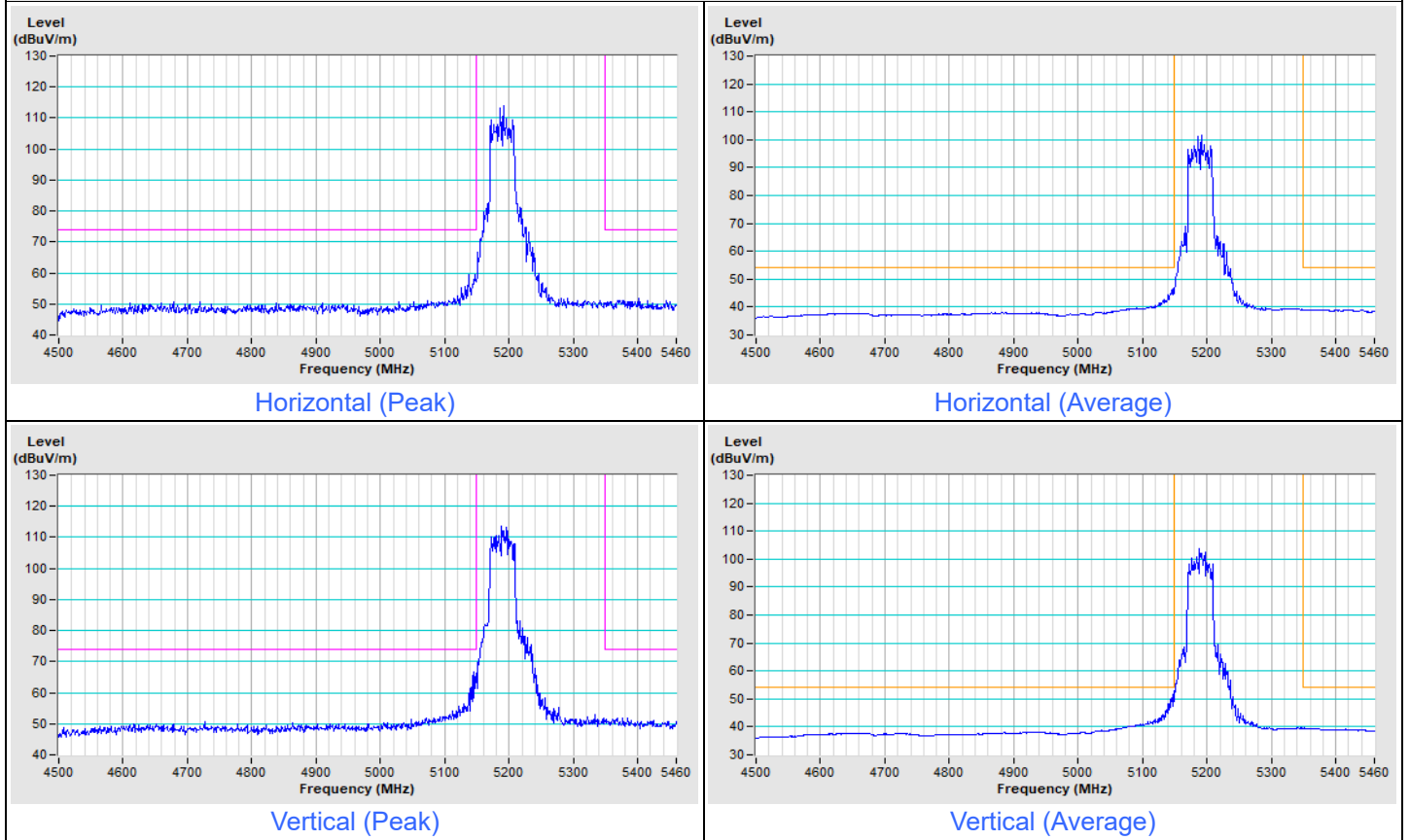


802.11be (EHT20) Channel 165

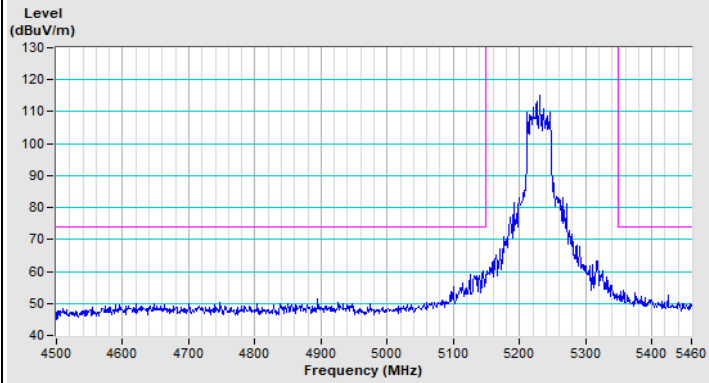


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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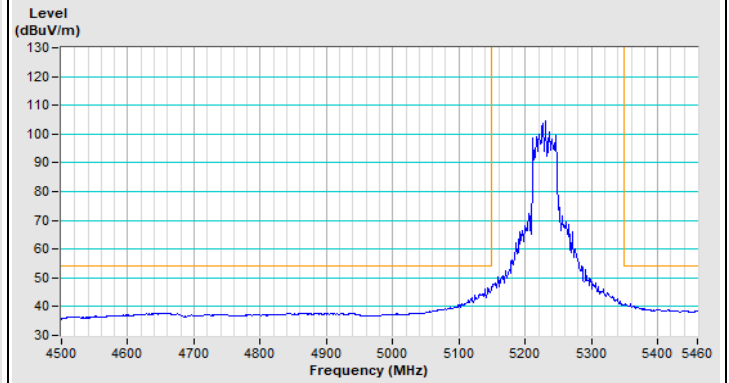
802.11be (EHT40) Channel 38



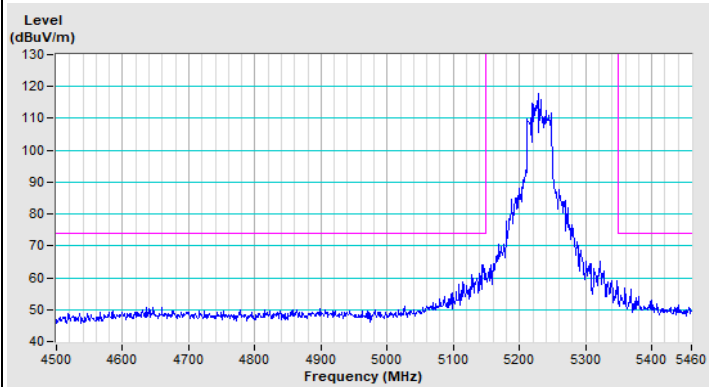
802.11be (EHT40) Channel 46



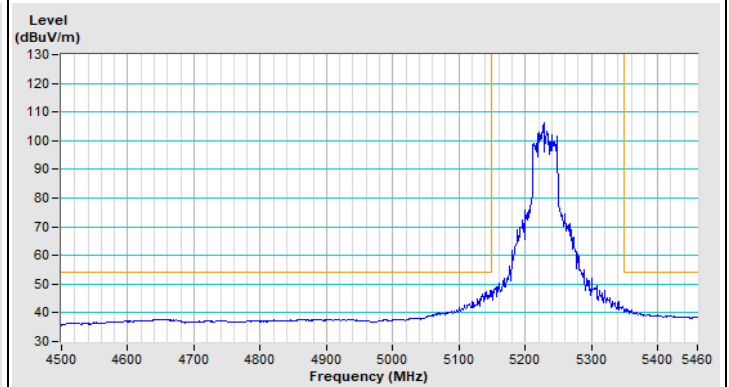
Horizontal (Peak)



Horizontal (Average)



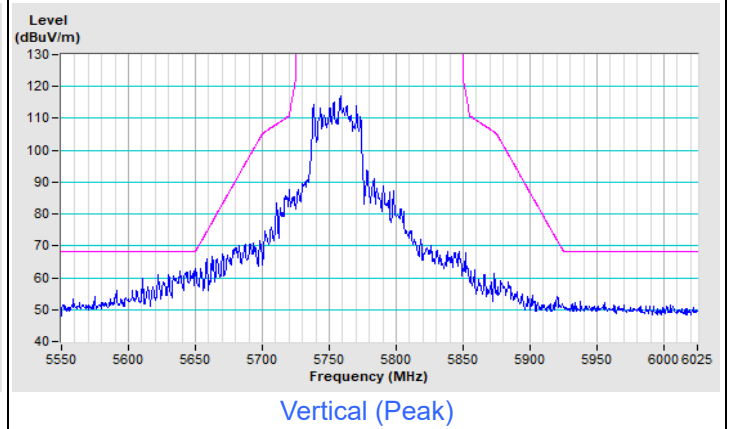
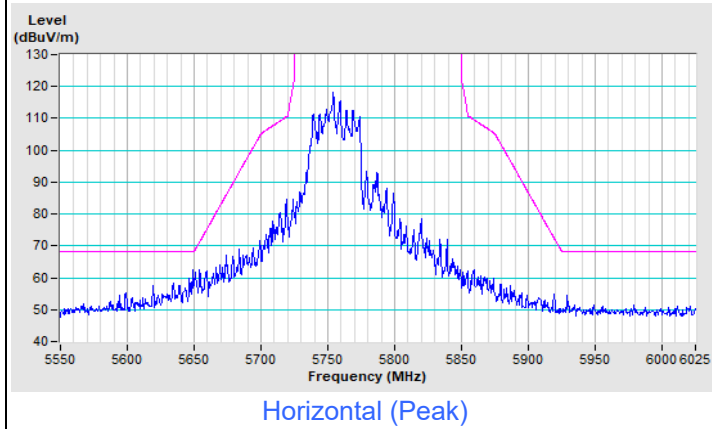
Vertical (Peak)



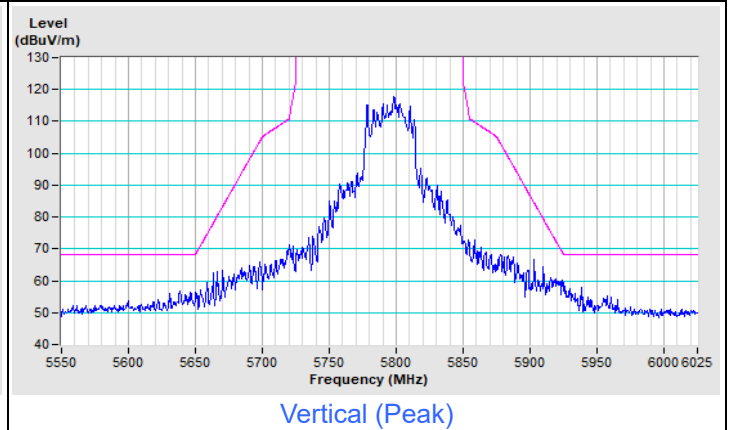
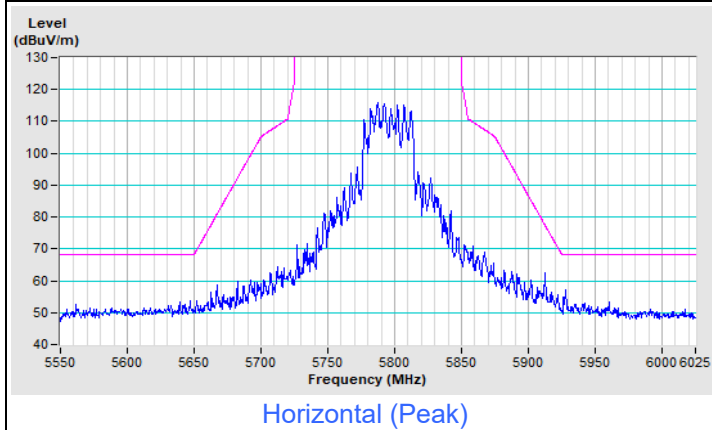
Vertical (Average)

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

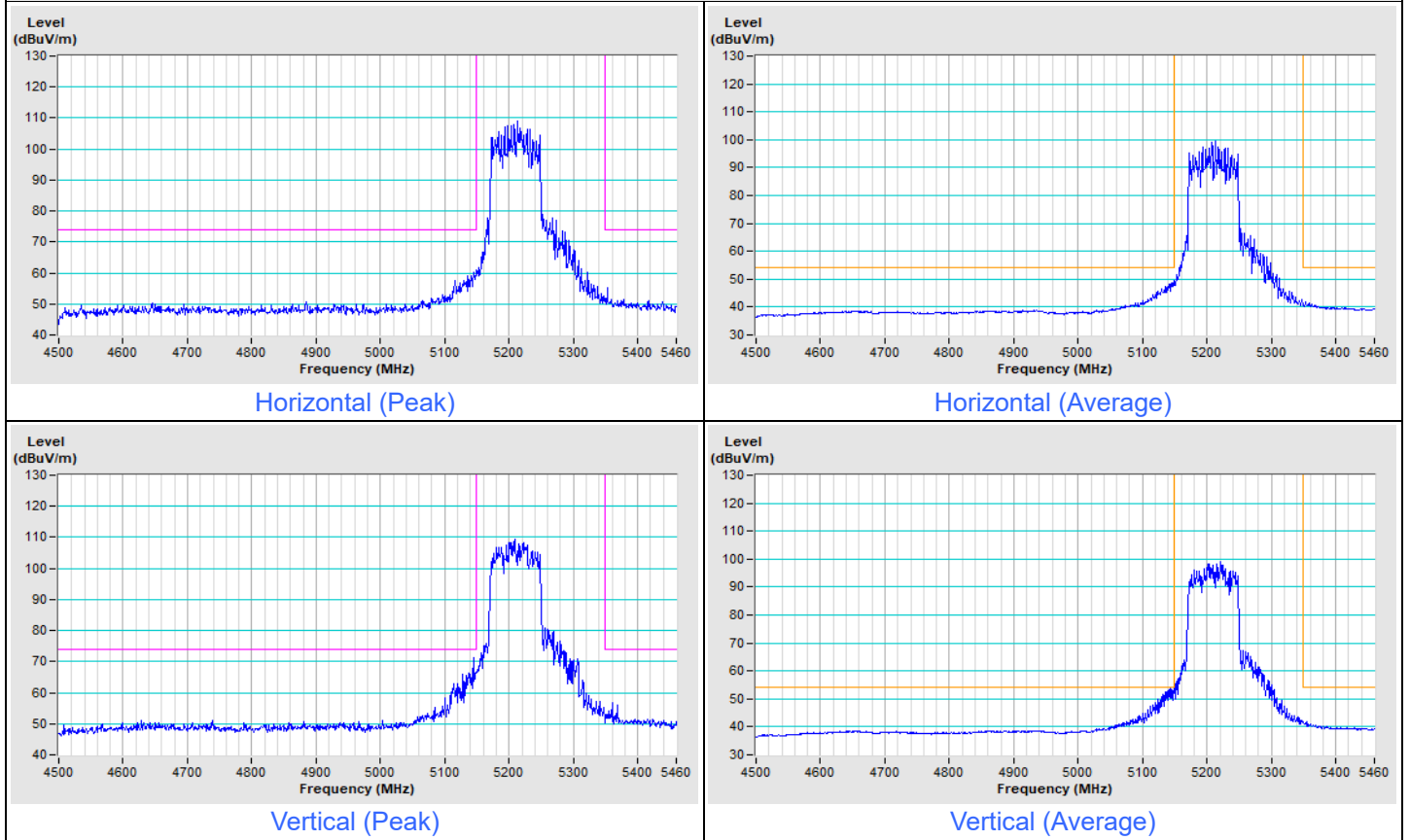


802.11be (EHT40) Channel 159

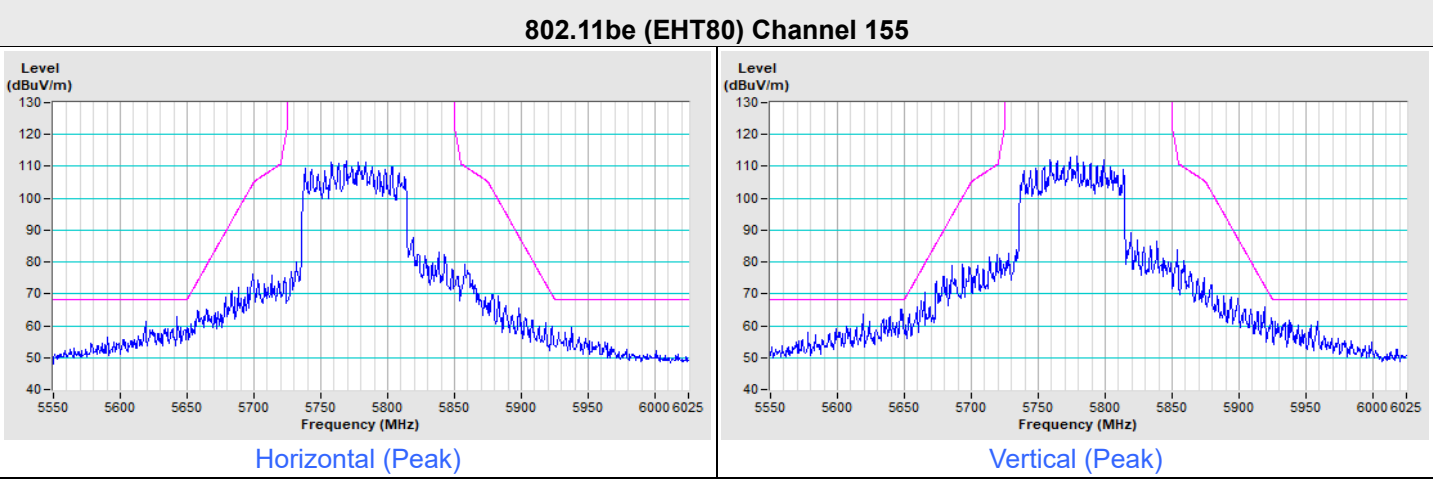


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11be (EHT80) Channel 42



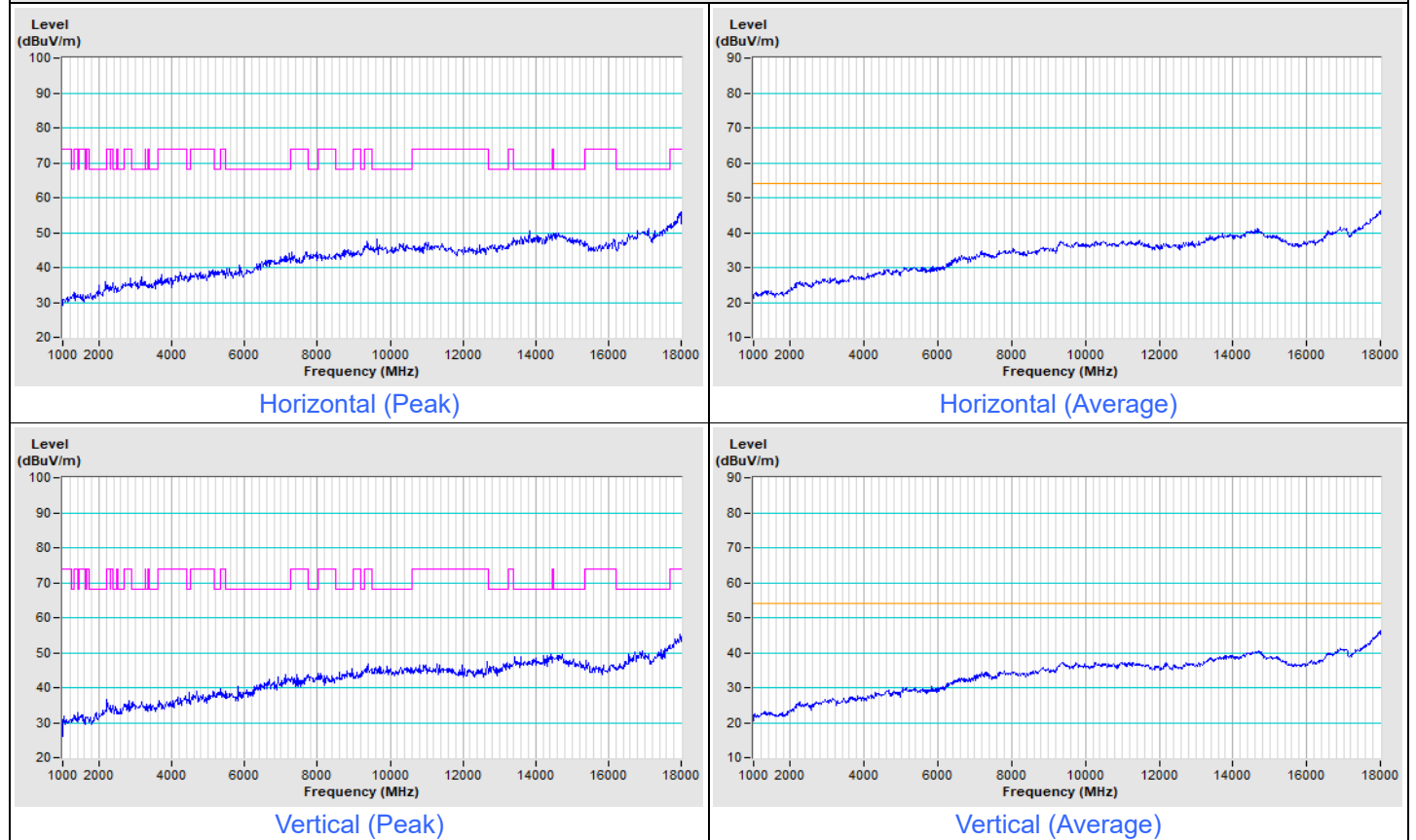
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11a Channel 52

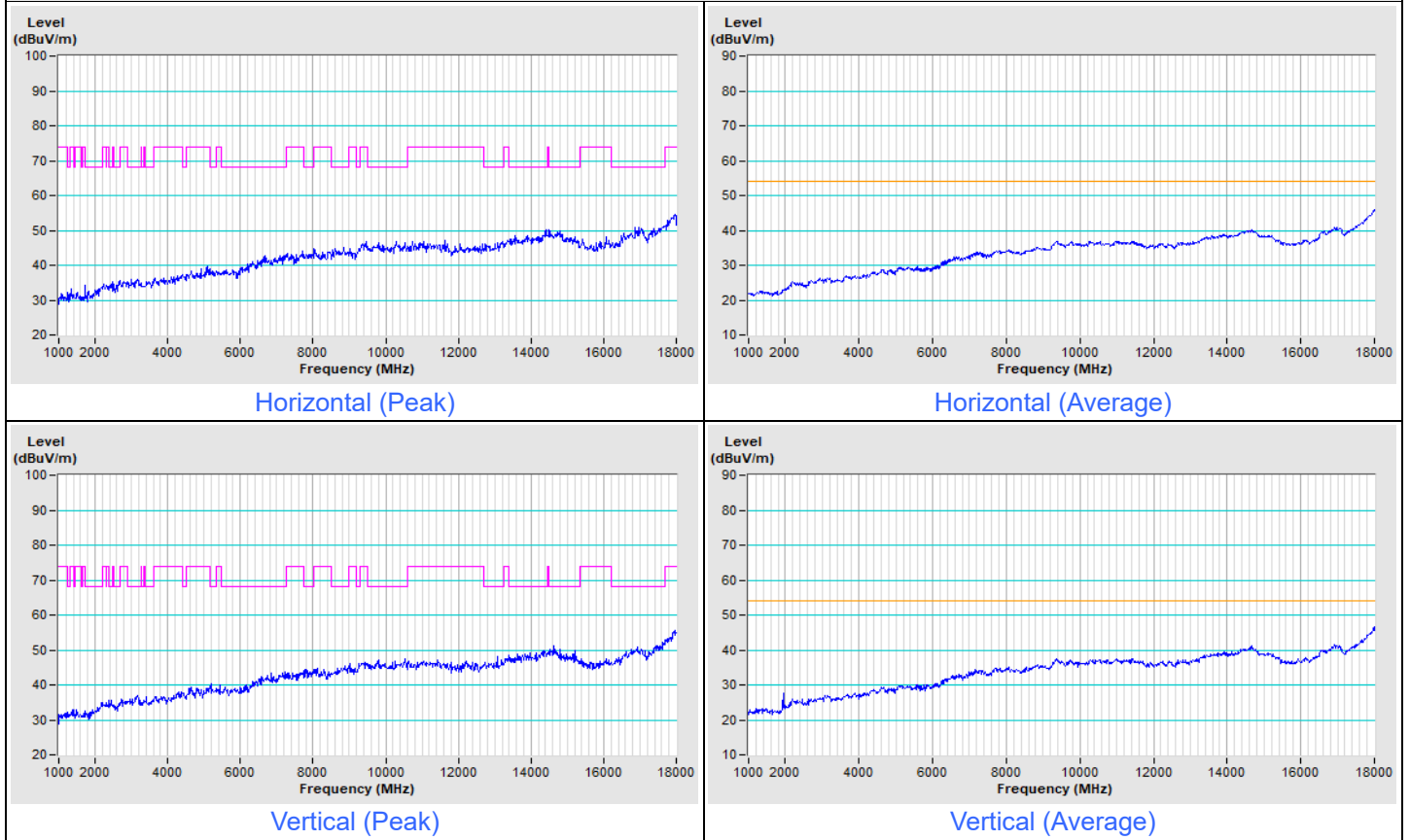


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT20) Channel 40

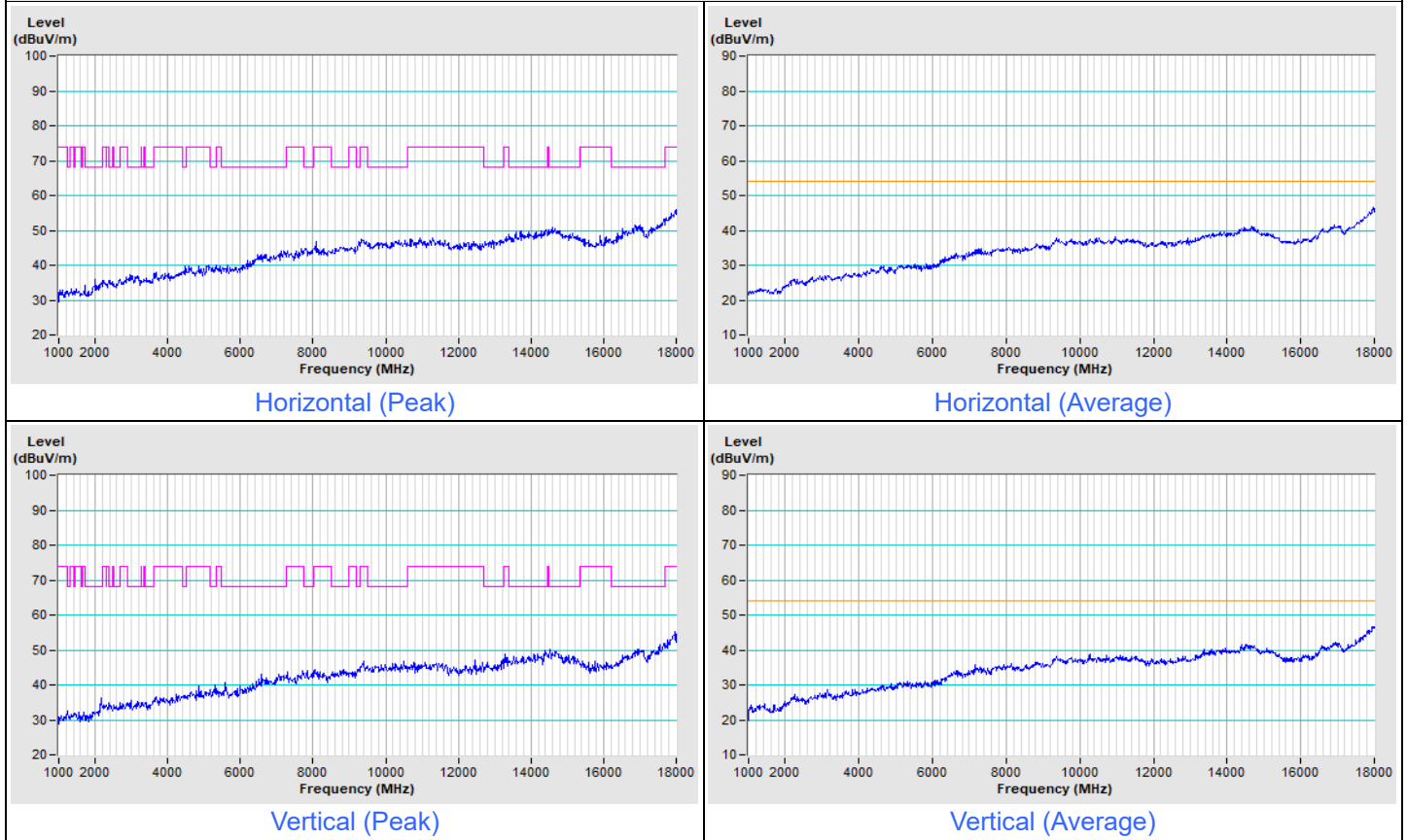


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT40) Channel 151

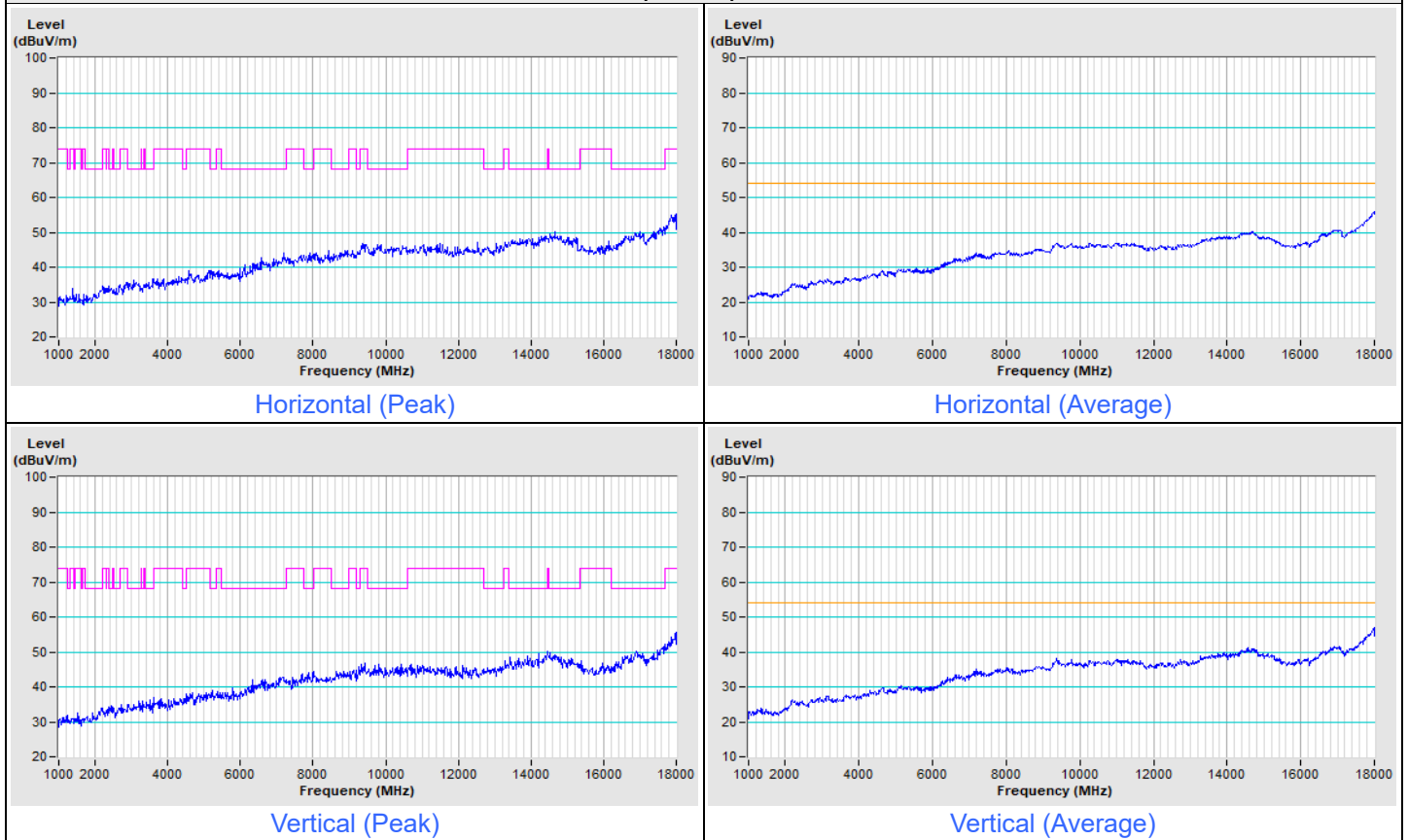


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT80) Channel 42



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

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:

Lin Kou EMC/RF Lab

Tel: 886-(0)2-26052180

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-(0)3-6668565 (SIP)

Tel: 886-(0)3-5120595 (WD)

Hwa Ya EMC/RF/Safety/SAR Lab & Wenming EMC/RF Lab

Tel: 886-(0)3-3183232

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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