

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBBQZ-WTW-P26050063-3
FCC ID: PY325300650
Product: Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
(refer to item 3.1 for more details)
Brand: NETGEAR
Model No.: RBE781
Series Model: RBE780 (refer to item 3.1 for more details)
Received Date: 2026/5/5
Test Date: 2026/6/6 ~ 2026/7/25
Issued Date: 2026/8/18

Applicant and Manufacturer: NETGEAR, INC.

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

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FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

Jeremy Lin

Date:

2026/8/18

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P26050063-3	Original Release	2026/8/18

1 Certificate

Product: Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
(refer to item 3.1 for more details)

Brand: NETGEAR

Test Model: RBE781

Series Model: RBE780 (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: 2026/6/6 ~ 2026/7/25

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

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
KDB 291074 D02 EMC Measurement v01
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -17.34 dB at 0.25000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -9.77 dB at 268.99 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 5650.00 MHz
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit.
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	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	3.23 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.64 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	Orbi 11BE WiFi 7 Tri-band Router & Orbi 11BE WiFi 7 Tri-band Satellite
Brand	NETGEAR
Test Model	RBE781
Series Model	RBE780
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 2882.4 Mbps
Operating Frequency	5.815 GHz ~ 5.885 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 2 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 1 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 1
Partial RU Mode	Not support
Channel Puncturing	Not support
Output Power	EIRP: 1674.943 mW (32.24 dBm)
EUT Category	Indoor access point & subordinate device

Note:

1. All models are listed as below.

Product Description	Model	Difference
Orbi 11BE WiFi 7 Tri-band Router	RBE781	DFS mode: Master mode Four 2.5G Ethernet ports (1WAN+3LAN)
Orbi 11BE WiFi 7 Tri-band Satellite	RBE780	DFS mode: Mesh mode Two 2.5G Ethernet ports (2LAN)

2. The EUT uses following accessories.

AC Adapter 1	Brand	NETGEAR
	Model	ADS-40FPC-12 12030E
	Part Number	332-11771-01
	AC Input	100-240V 50/60Hz 1.0A
	DC Output	12.0V 2.5A 30.0W
	DC Output Cable	1.81M / 0 core
	Manufacturer	Vietnam Honor High Tech Company Limited
AC Adapter 2	Brand	NETGEAR
	Model	2AED030FC
	Part Number	332-11774-01
	AC Input	100-240V 50/60Hz 1.0A
	DC Output	12.0V 2.5A 30.0W
	DC Output Cable	1.83M / 0 core
	Manufacturer	CWT
RJ45 Cable	Brand	NETGEAR
	Model	-
	Part Number	-
	Signal Line	1.97m non-shielded and without core

3. There are WLAN (2.4 GHz, 5 GHz, 6 GHz), Bluetooth, and Threads technology used for the EUT.

4. The indoor AP and subordinate mode share the same RF parameters.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Gain (dBi)	Frequency range	Antenna Type	Connector Type
1	0	Galtronics	02129140-08099-2	2.68	2.4~2.4835GHz	Monopole	ipex(MHF)
				2.49	5.15~5.25GHz		
				3.13	5.25~5.35GHz		
				4.25	5.47~5.725GHz		
				4.58	5.725~5.85GHz		
				4.58	5.850~5.895GHz		
2	1	Galtronics	02129140-08099-1	3.4	2.4~2.4835GHz	Monopole	ipex(MHF)
				3.77	5.15~5.25GHz		
				3.84	5.25~5.35GHz		
				3.72	5.47~5.725GHz		
				3.78	5.725~5.85GHz		
				4.12	5.850~5.895GHz		
3	0	Galtronics	02129475-08099-7	3.85	5.925~6.425GHz	Monopole	ipex(MHF)
				4.63	6.425~6.525GHz		
				4.63	6.525~6.875GHz		
				3.67	6.875~7.125GHz		
4	1	Galtronics	02129475-08099-4	5.84	5.925~6.425GHz	Monopole	ipex(MHF)
				5.84	6.425~6.525GHz		
				5.79	6.525~6.875GHz		
				4.05	6.875~7.125GHz		
5	2	Galtronics	02129475-08099-6	3.42	5.925~6.425GHz	Monopole	ipex(MHF)
				3.54	6.425~6.525GHz		
				4.45	6.525~6.875GHz		
				3.67	6.875~7.125GHz		
6	3	Galtronics	02129475-08099-8	4.4	5.925~6.425GHz	Monopole	ipex(MHF)
				4.87	6.425~6.525GHz		
				5.03	6.525~6.875GHz		
				6	6.875~7.125GHz		
7	0	Galtronics	02102073-08099-3	2.43	2.4~2.4835GHz	Alford Loop	ipex(MHF)

Frequency range (GHz)	Directional Gain (dBi)
2.4~2.4835	4.91
5.15 ~ 5.25	5.39
5.25 ~ 5.35	5.9
5.47 ~ 5.725	5.49
5.725 ~ 5.85	5.75
5.850 ~ 5.895	5.75

Frequency range (GHz)	Directional Gain (dBi)			
	Antenna 3 + 5	Antenna 3 + 6	Antenna 4 + 5	Antenna 4 + 6
5.925~6.425	4.7	5.76	4.84	5.12
6.425~6.525	4.95	5.8	4.77	5.98
6.525~6.875	5.41	5.8	4.48	5.98
6.875~7.125	4.51	5.1	3.93	5.68

* The detailed antenna information, please refer to RBE781, RBE780 Directional Gain Measurement data.

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	CDD Mode	Beamforming Mode
802.11a	Nss1	Not Support
802.11n (HT20)	Nss1 / Nss2	Nss1 / Nss2
802.11n (HT40)	Nss1 / Nss2	Nss1 / Nss2
802.11ac (VHT20)	Nss1 / Nss2	Nss1 / Nss2
802.11ac (VHT40)	Nss1 / Nss2	Nss1 / Nss2
802.11ac (VHT80)	Nss1 / Nss2	Nss1 / Nss2
802.11ac (VHT160)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE20)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE40)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE80)	Nss1 / Nss2	Nss1 / Nss2
802.11ax (HE160)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT20)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT40)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT80)	Nss1 / Nss2	Nss1 / Nss2
802.11be (EHT160)	Nss1 / Nss2	Nss1 / Nss2

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
*163	5815 MHz

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

3.4 Test Mode Applicability and Tested Channel Detail

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

The EUT is designed to be positioned on the Y-axis only.

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming	169, 173, 177	BPSK	MCS0
		802.11be (EHT40)	Beamforming	167, 175	BPSK	MCS0
		802.11be (EHT80)	Beamforming	171	BPSK	MCS0
		802.11be (EHT160)	Beamforming	163	BPSK	MCS0
Power Spectral Density	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming	169, 173, 177	BPSK	MCS0
		802.11be (EHT40)	Beamforming	167, 175	BPSK	MCS0
		802.11be (EHT80)	Beamforming	171	BPSK	MCS0
		802.11be (EHT160)	Beamforming	163	BPSK	MCS0
6 dB Bandwidth	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming	169, 173, 177	BPSK	MCS0
		802.11be (EHT40)	Beamforming	167, 175	BPSK	MCS0
		802.11be (EHT80)	Beamforming	171	BPSK	MCS0
		802.11be (EHT160)	Beamforming	163	BPSK	MCS0
AC Power Conducted Emissions	A, B	802.11a	CDD	169	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	A, B	802.11a	CDD	169	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	A	802.11a	CDD	169, 173, 177	BPSK	6Mb/s
		802.11be (EHT20)	Beamforming	169, 173, 177	BPSK	MCS0
		802.11be (EHT40)	Beamforming	167, 175	BPSK	MCS0
		802.11be (EHT80)	Beamforming	171	BPSK	MCS0
		802.11be (EHT160)	Beamforming	163	BPSK	MCS0
EUT Configure Mode	A	EUT model: RBE781				
	B	EUT model: RBE780				

3.5 Duty Cycle of Test Signal

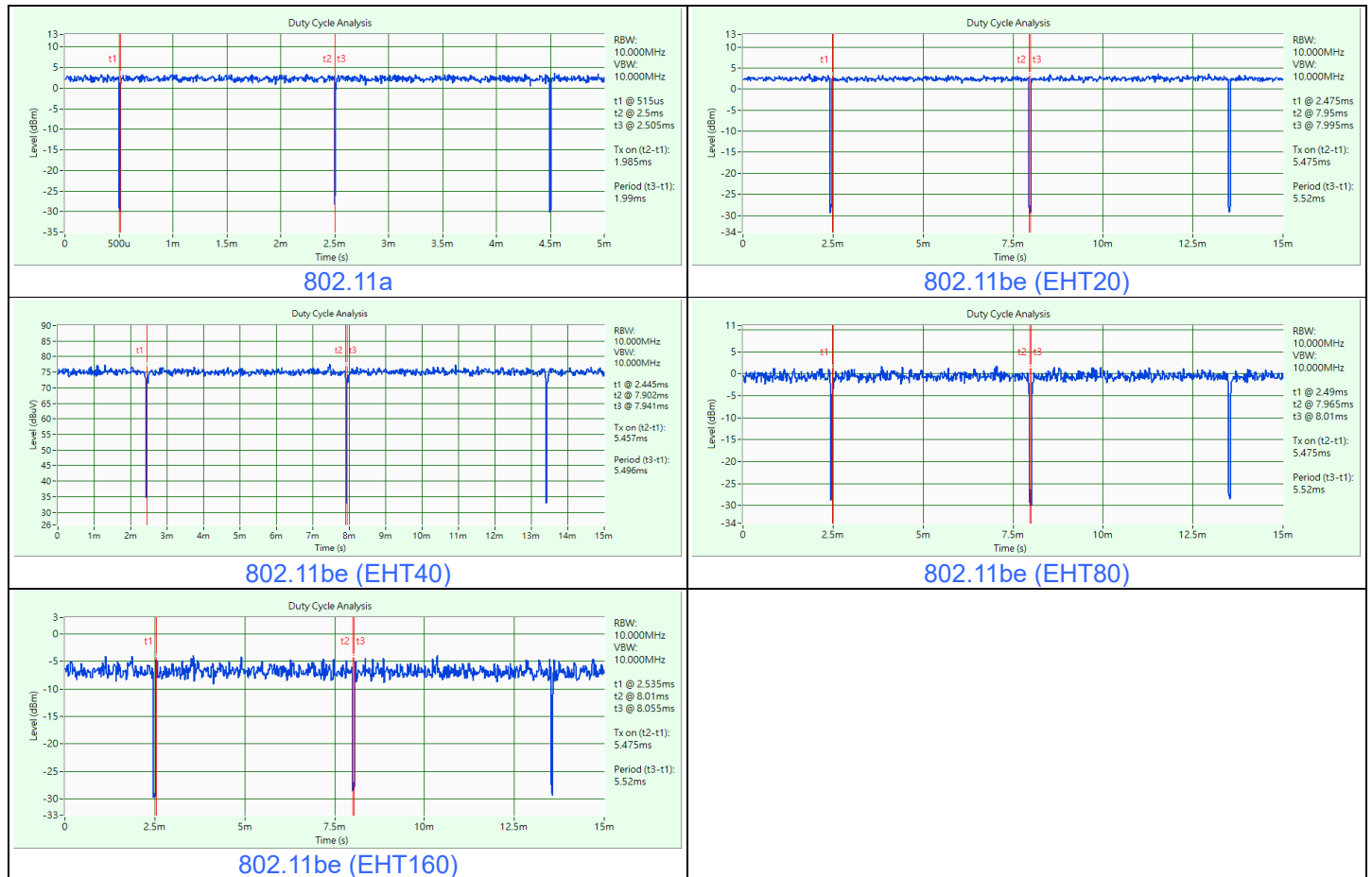
802.11a: Duty cycle = 1.985 ms / 1.99 ms x 100% = 99.7%

802.11be (EHT20): Duty cycle = 5.475 ms / 5.52 ms x 100% = 99.2%

802.11be (EHT40): Duty cycle = 5.457 ms / 5.496 ms x 100% = 99.3%

802.11be (EHT80): Duty cycle = 5.475 ms / 5.52 ms x 100% = 99.2%

802.11be (EHT160): Duty cycle = 5.475 ms / 5.52 ms x 100% = 99.2%

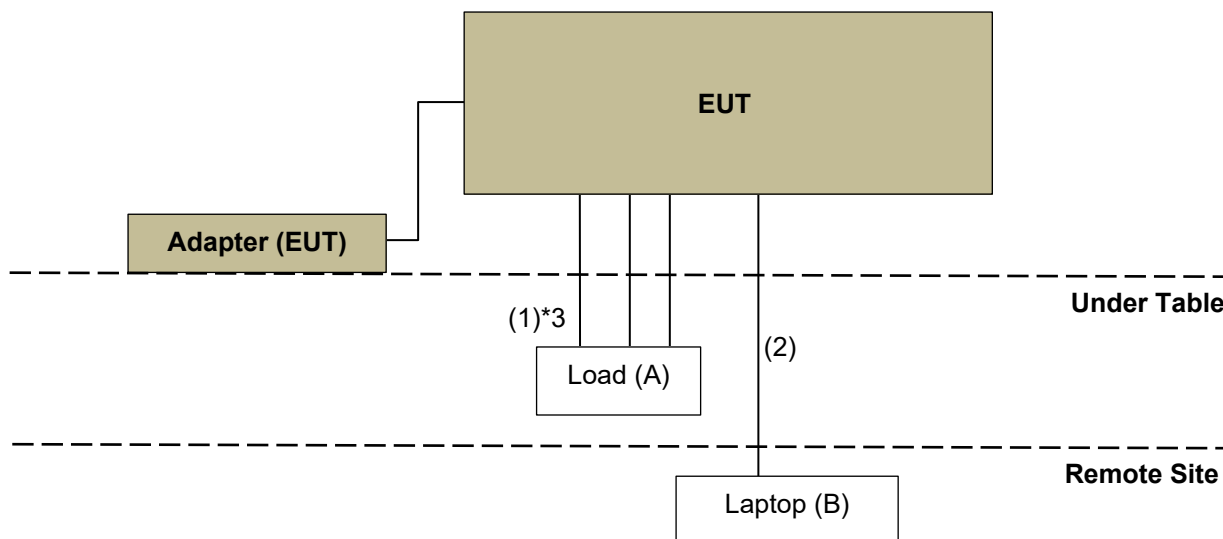


3.6 Test Program Used and Operation Descriptions

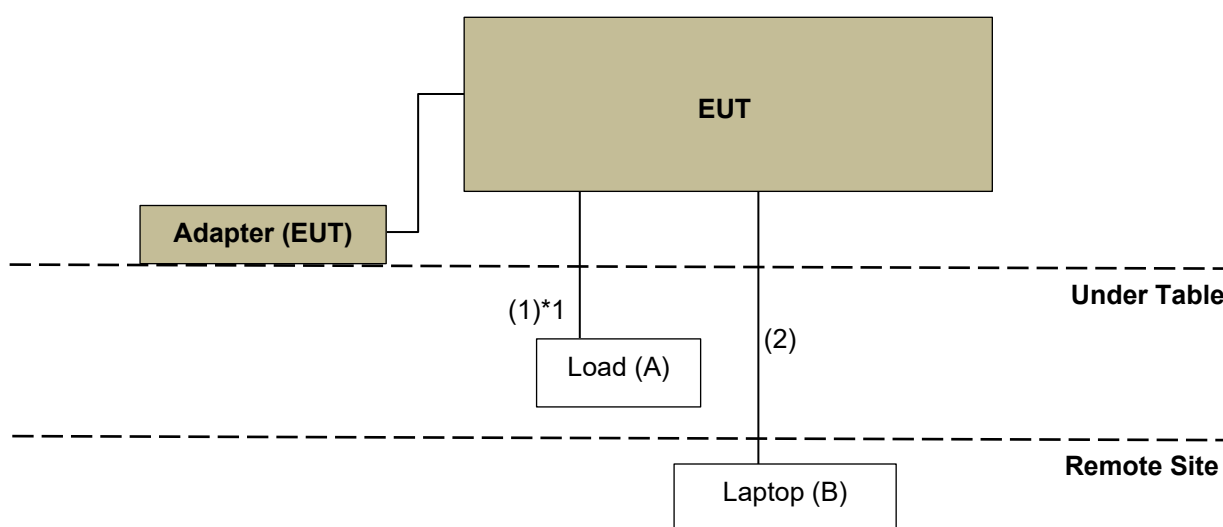
Controlling software QSPR Version 5.0-00202 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Load	N/A	N/A	N/A	N/A	Provided by Lab
B	Laptop	DELL	E5430	2RL3YW1	N/A	Provided by Lab (for RF Setup)

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	3	1.5	No	0	Provided by Lab
2	RJ45 Cable	1	1.97	No	0	Accessory of EUT (for RF Setup)

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
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170241	2025/10/28	2026/10/27
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
Preamplifier Keysight	83017A	MY53270295	2026/4/18	2027/4/17
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2026/6/26	2027/6/25
	EMC102-KM-KM-3000	150929	2026/6/26	2027/6/25
RF Coaxial Cable HUBER+SUHNER	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2026/4/18	2027/4/17
	SUCOFLEX 104	Cable-CH4-03(250724)	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/6/29 ~ 2026/7/23

4.2 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Signal Analyzer R&S	FSV40	100980	2026/5/14	2027/5/13
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/29 ~ 2026/7/23

4.4 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2026/4/18	2027/4/17
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
Extension Power Line EMCI	EMCI-EXP-EU-US	023	2026/3/6	2027/3/5
LISN R&S	ENV216	101826	2026/3/6	2027/3/5
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2026/7/9

4.5 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-155	2025/9/16	2026/9/15
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10631	2026/4/18	2027/4/17
RF Coaxial Cable Woken	8D-FB	Cable-CH4-01	2026/6/26	2027/6/25
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/7/9

4.6 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2025/12/8	2026/12/7
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170241	2025/10/28	2026/10/27
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
Preamplifier Keysight	83017A	MY53270295	2026/4/18	2027/4/17
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30 2026/6/26	2026/6/29 2027/6/25
	EMC102-KM-KM-3000	150929	2025/6/30 2026/6/26	2026/6/29 2027/6/25
RF Coaxial Cable HUBER+SUHNER	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2026/4/18	2027/4/17
	SUCOFLEX 104	Cable-CH4-03(250724)	2026/4/18	2027/4/17
Signal & Spectrum Analyzer R&S	FSW43	101582	2026/5/2	2027/5/1
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3(Hwaya).
2. Tested Date: 2026/6/6 ~ 2026/7/25

5 Limits of Test Items

5.1 RF Output Power

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

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

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

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

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

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

5.2 Power Spectral Density

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

5.3 6 dB Bandwidth

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

5.4 AC Power Conducted Emissions

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

Notes:

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

5.5 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.6 Unwanted Emissions above 1 GHz

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

Note:

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

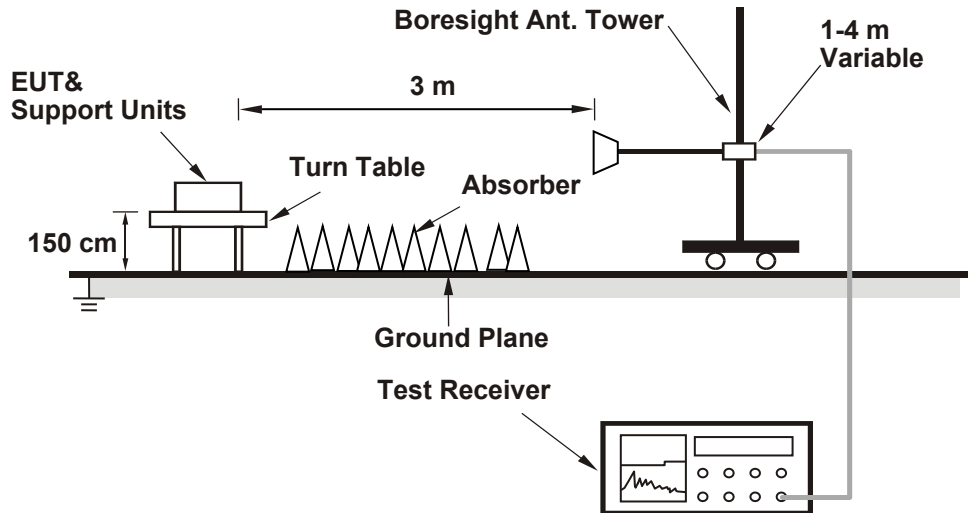
$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

Radiated Measurement Method



6.1.2 Test Procedure

Radiated Measurement Method

- 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.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV / m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77 = -95.23 \text{ dB}$; where D is the measurement distance @ 3 m.

Spectrum analyzer setting as below:

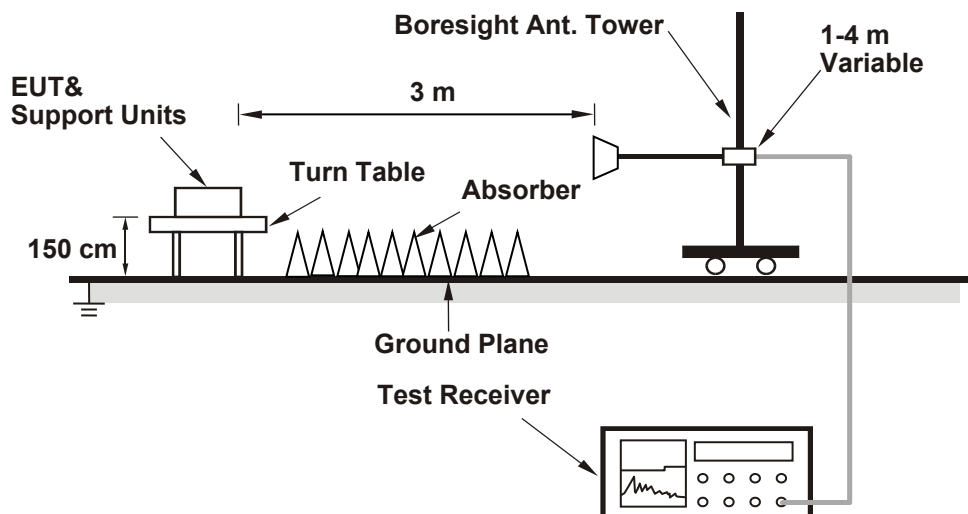
Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (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.

Note: When measuring power, use compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 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.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$.
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$; where D is the measurement distance @3 m = -95.23 dB

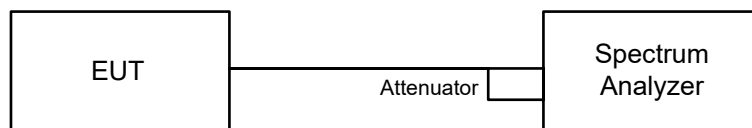
Spectrum analyzer setting as below:

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

6.3 6 dB Bandwidth

6.3.1 Test Setup



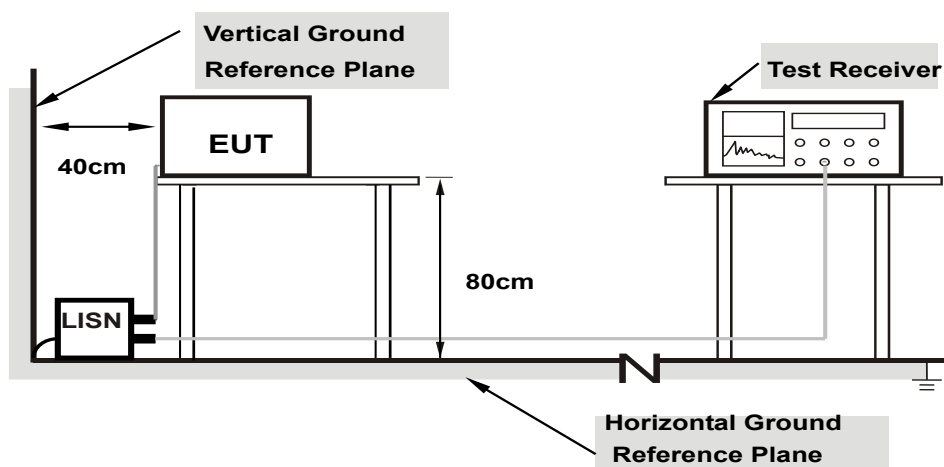
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

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

6.4 AC Power Conducted Emissions

6.4.1 Test Setup



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

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

6.4.2 Test Procedure

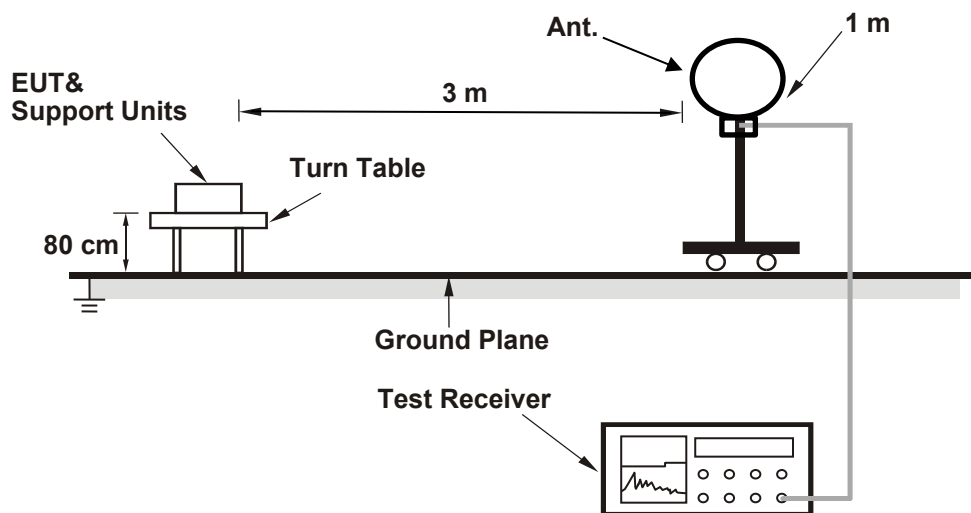
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

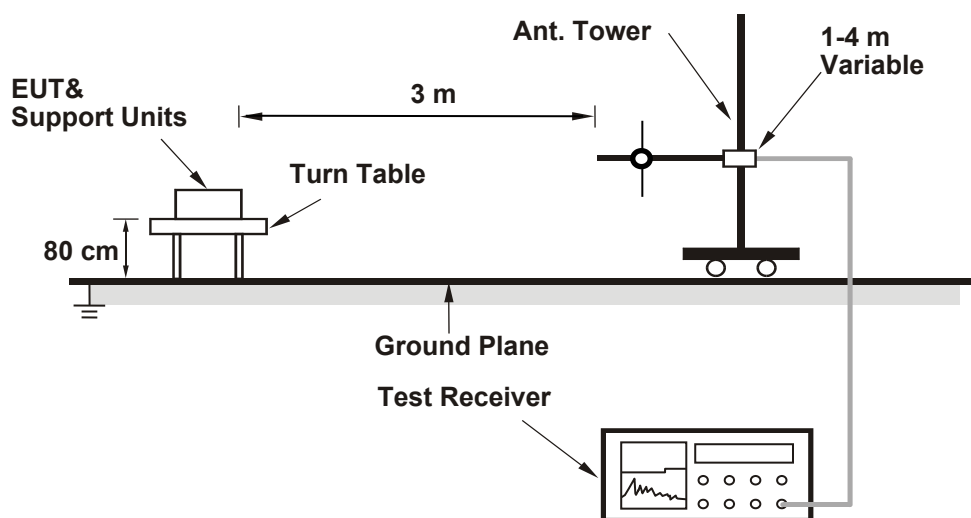
6.5 Unwanted Emissions below 1 GHz

6.5.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.5.2 Test Procedure

For Radiated emission below 30 MHz

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

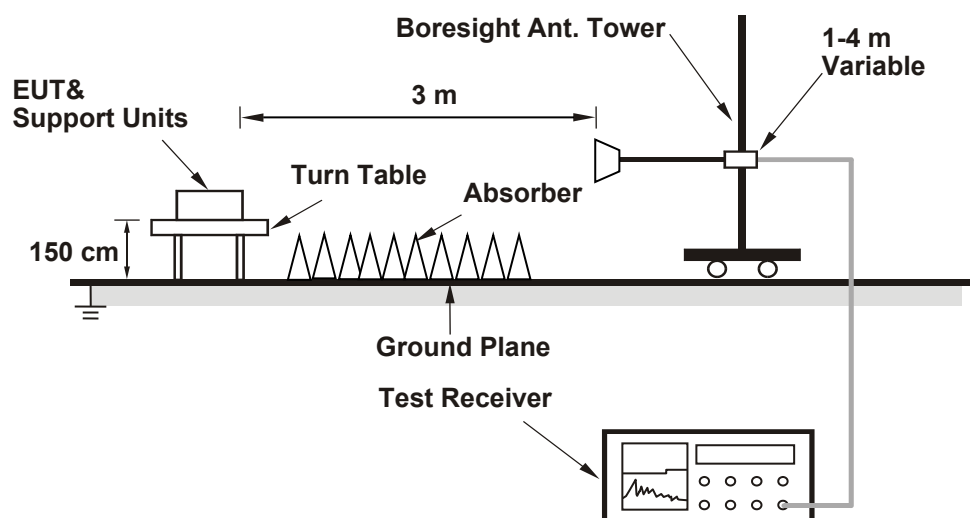
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.6 Unwanted Emissions above 1 GHz

6.6.1 Test Setup



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

6.6.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	124.98	-95.23	944.061	29.75	36	Pass
173	5865	124.62	-95.23	868.96	29.39	36	Pass
177	5885	124.65	-95.23	874.984	29.42	36	Pass

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
169	5845	127.47	-95.23	1674.943	32.24	36	Pass
173	5865	127.09	-95.23	1534.617	31.86	36	Pass
177	5885	127.22	-95.23	1581.248	31.99	36	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
167	5835	127.12	-95.23	1545.254	31.89	36	Pass
175	5875	127.06	-95.23	1524.053	31.83	36	Pass

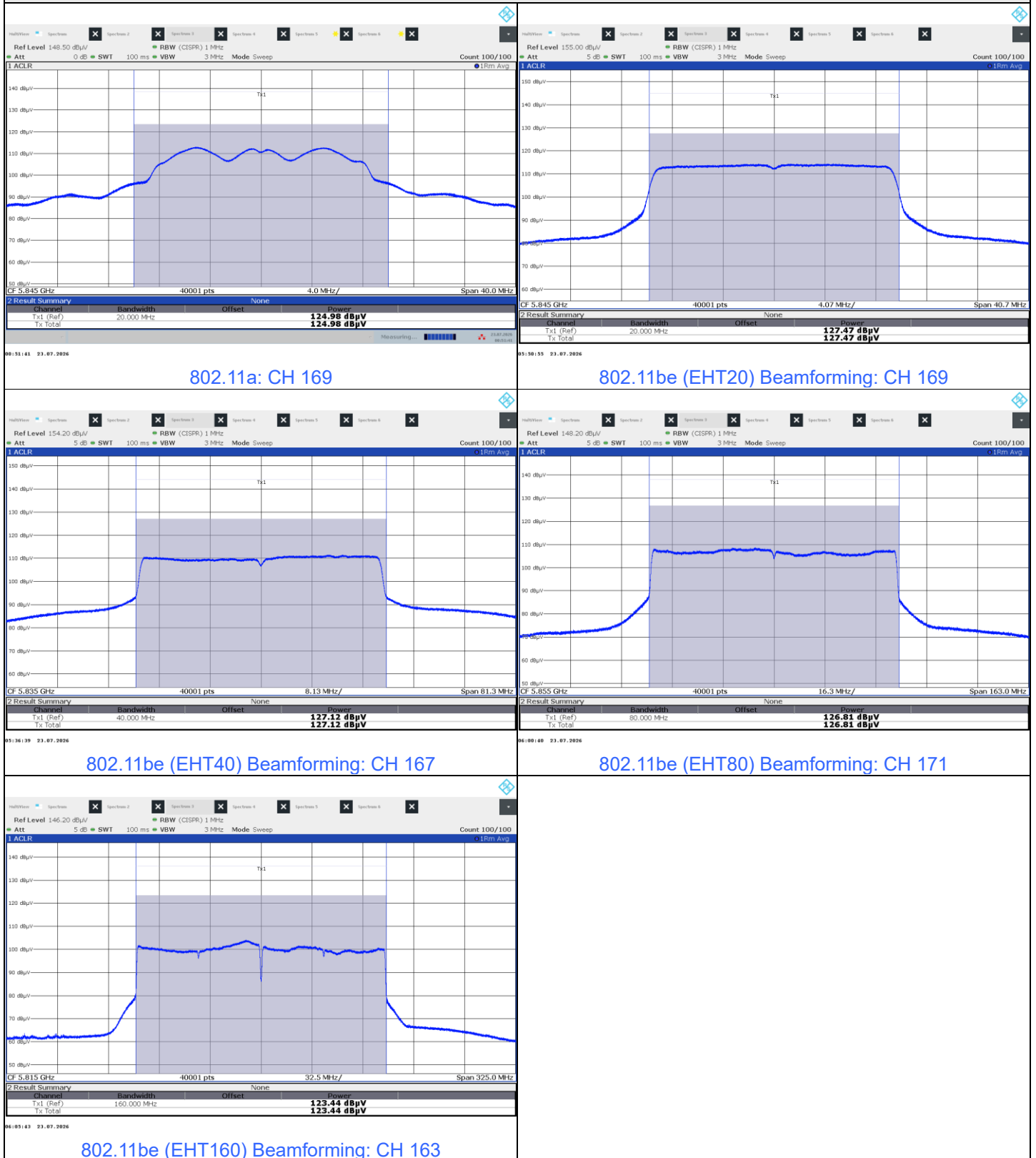
802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
171	5855	126.81	-95.23	1438.799	31.58	36	Pass

802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
163	5815	123.44	-95.23	662.217	28.21	36	Pass

Spectrum Plot of Maximum Value



7.2 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	113.25	-95.23	18.02	20	Pass
173	5865	113.31	-95.23	18.08	20	Pass
177	5885	113.28	-95.23	18.05	20	Pass

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
169	5845	113.36	-95.23	18.13	20	Pass
173	5865	113.46	-95.23	18.23	20	Pass
177	5885	113.41	-95.23	18.18	20	Pass

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
167	5835	110.83	-95.23	15.60	20	Pass
175	5875	110.53	-95.23	15.30	20	Pass

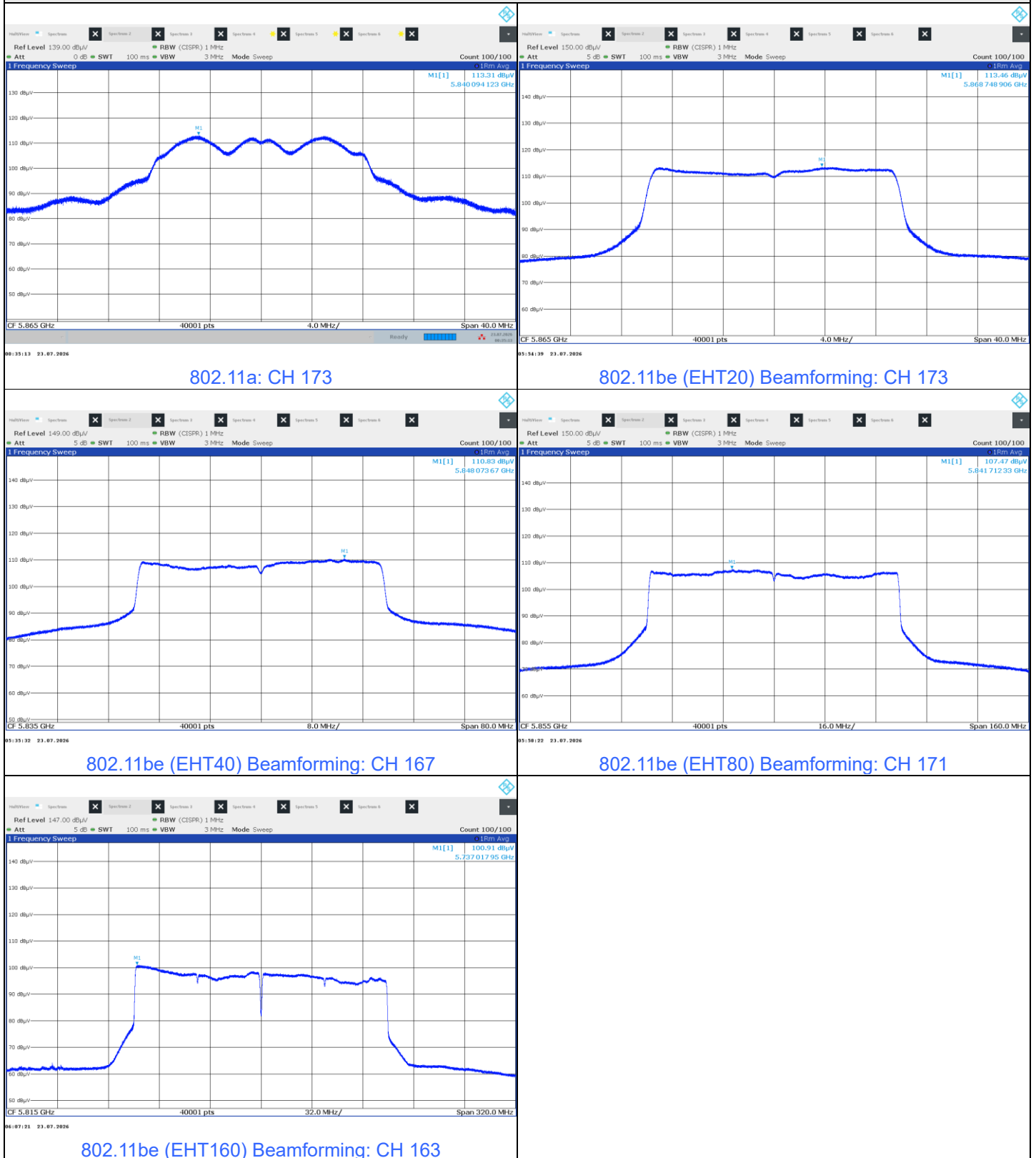
802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
171	5855	107.47	-95.23	12.24	20	Pass

802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
163	5815	100.91	-95.23	5.68	20	Pass

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	15.19	15.12	0.5	Pass
173	5865	15.17	15.18	0.5	Pass
177	5885	15.16	15.21	0.5	Pass

802.11be (EHT20) Beamforming

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
169	5845	16.28	18.00	0.5	Pass
173	5865	17.62	16.33	0.5	Pass
177	5885	17.64	16.87	0.5	Pass

802.11be (EHT40) Beamforming

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
167	5835	38.18	38.12	0.5	Pass
175	5875	38.09	38.05	0.5	Pass

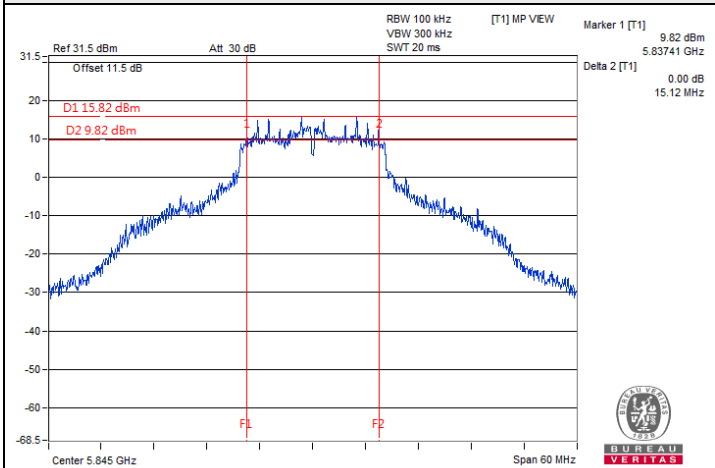
802.11be (EHT80) Beamforming

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
171	5855	71.67	76.20	0.5	Pass

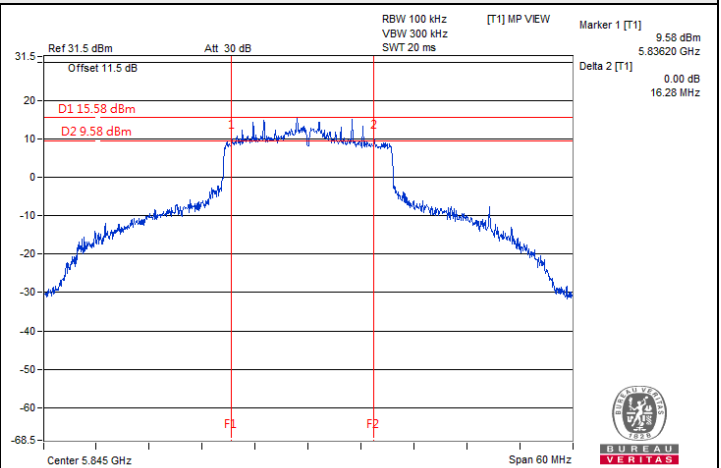
802.11be (EHT160) Beamforming

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
163	5815	155.78	155.58	0.5	Pass

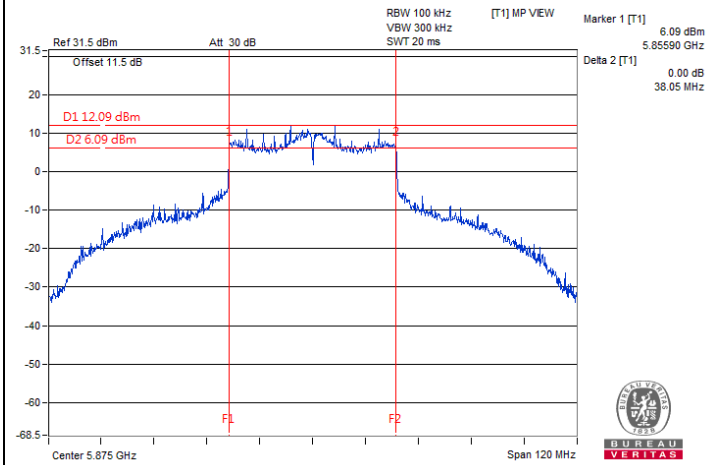
Spectrum Plot of Minimum Value



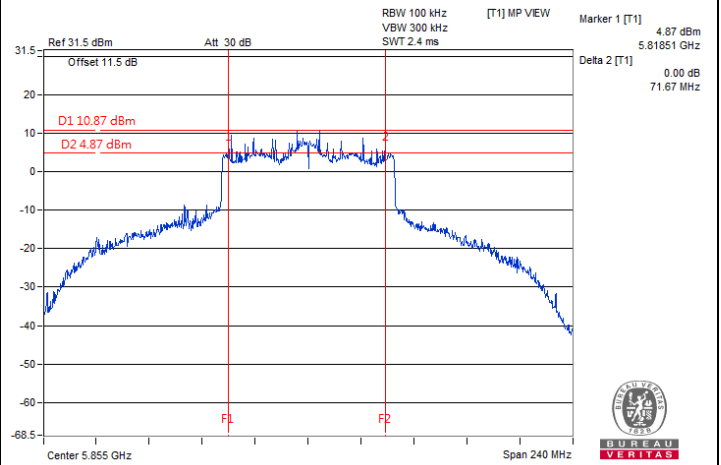
802.11a / Chain 1: CH 169



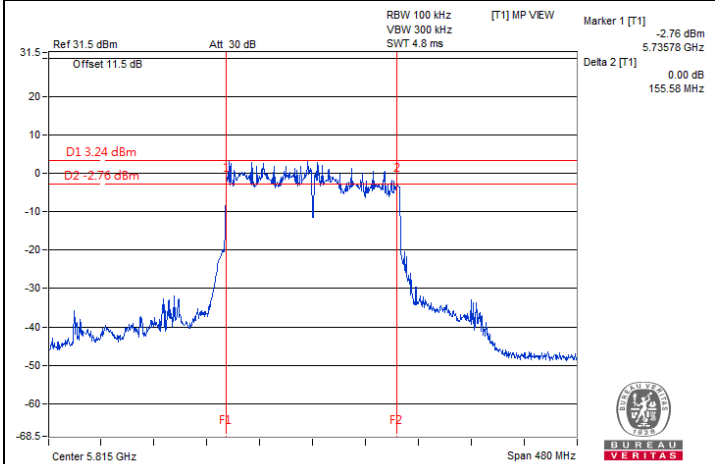
802.11be (EHT20) Beamforming / Chain 0: CH 169



802.11be (EHT40) Beamforming / Chain 1: CH 175



802.11be (EHT80) Beamforming / Chain 0: CH 171



802.11be (EHT160) Beamforming / Chain 1: CH 163

7.4 AC Power Conducted Emissions

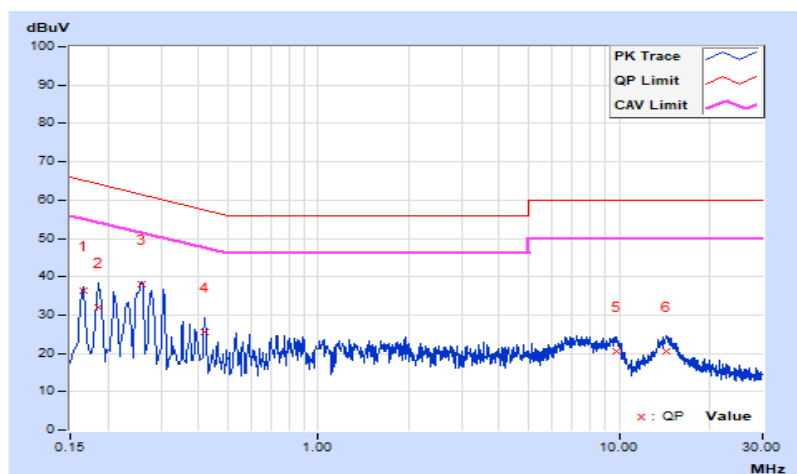
Mode A

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Luis Lee		

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	0.16600	9.77	26.55	17.81	36.32	27.58	65.16	55.16	-28.84	-27.58
2	0.18600	9.77	22.24	6.25	32.01	16.02	64.21	54.21	-32.20	-38.19
3	0.25800	9.77	28.19	15.48	37.96	25.25	61.50	51.50	-23.54	-26.25
4	0.42200	9.78	15.88	7.34	25.66	17.12	57.41	47.41	-31.75	-30.29
5	9.85000	9.97	10.53	4.59	20.50	14.56	60.00	50.00	-39.50	-35.44
6	14.36200	10.03	10.61	5.44	20.64	15.47	60.00	50.00	-39.36	-34.53

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

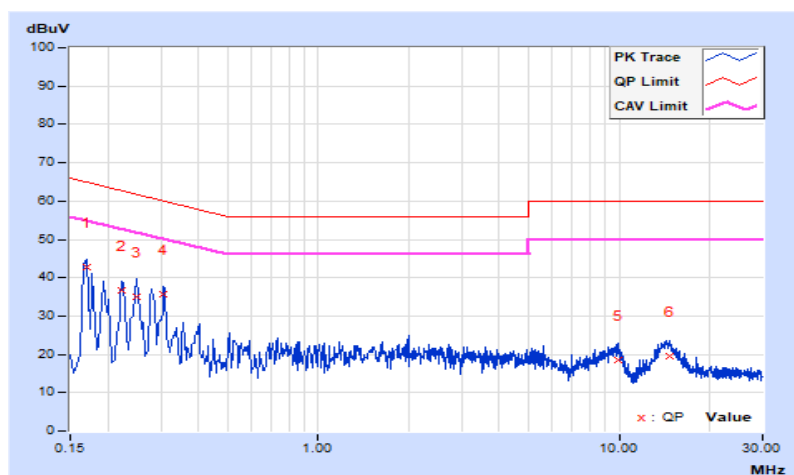


RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Luis Lee		

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	0.16977	9.78	33.02	18.69	42.80	28.47	64.97	54.97	-22.17	-26.50
2	0.22200	9.76	26.89	16.42	36.65	26.18	62.74	52.74	-26.09	-26.56
3	0.25000	9.77	25.23	24.65	35.00	34.42	61.76	51.76	-26.76	-17.34
4	0.30600	9.78	25.85	18.74	35.63	28.52	60.08	50.08	-24.45	-21.56
5	9.87800	10.01	8.38	2.13	18.39	12.14	60.00	50.00	-41.61	-37.86
6	14.67400	10.14	9.23	4.11	19.37	14.25	60.00	50.00	-40.63	-35.75

Remarks:

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



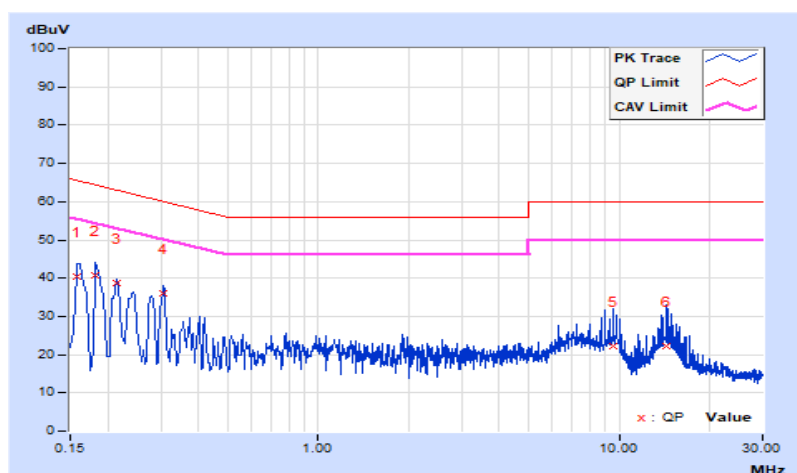
Mode B

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Luis Lee		

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	0.15800	9.78	30.56	20.00	40.34	29.78	65.57	55.57	-25.23	-25.79
2	0.18200	9.77	31.08	17.19	40.85	26.96	64.39	54.39	-23.54	-27.43
3	0.21400	9.76	29.01	17.65	38.77	27.41	63.05	53.05	-24.28	-25.64
4	0.30600	9.77	26.42	16.89	36.19	26.66	60.08	50.08	-23.89	-23.42
5	9.55800	9.97	12.32	5.01	22.29	14.98	60.00	50.00	-37.71	-35.02
6	14.29800	10.03	12.14	5.89	22.17	15.92	60.00	50.00	-37.83	-34.08

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

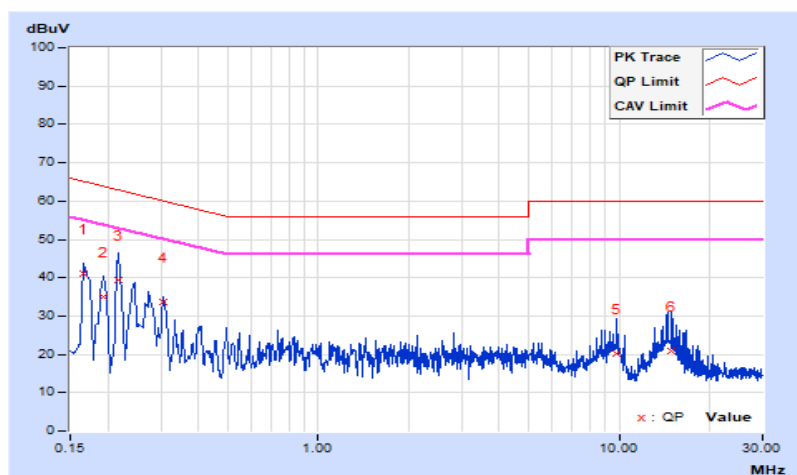


RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Luis Lee		

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	0.16600	9.78	31.37	12.78	41.15	22.56	65.16	55.16	-24.01	-32.60
2	0.19400	9.76	25.35	9.30	35.11	19.06	63.86	53.86	-28.75	-34.80
3	0.21800	9.76	29.63	17.17	39.39	26.93	62.89	52.89	-23.50	-25.96
4	0.30600	9.78	23.87	19.87	33.65	29.65	60.08	50.08	-26.43	-20.43
5	9.84600	10.01	10.20	2.56	20.21	12.57	60.00	50.00	-39.79	-37.43
6	14.87000	10.15	10.73	4.27	20.88	14.42	60.00	50.00	-39.12	-35.58

Remarks:

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



7.5 Unwanted Emissions below 1 GHz

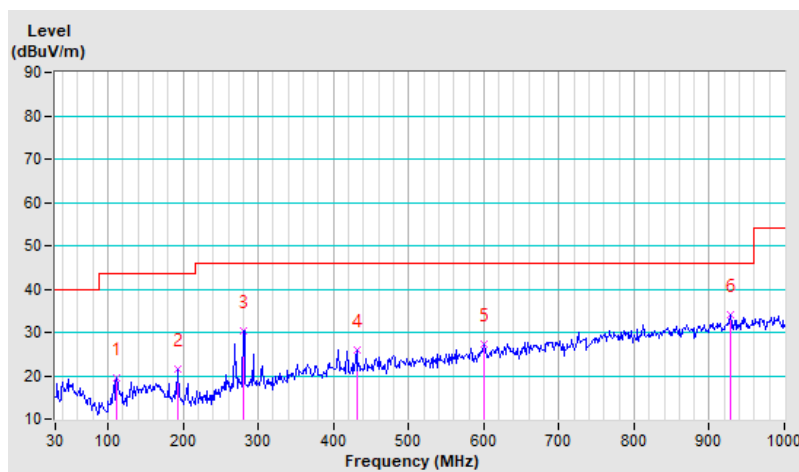
Mode A

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	111.54	19.52 QP	43.50	-23.98	2.00 H	126	31.21	-11.69
2	193.07	21.54 QP	43.50	-21.96	1.00 H	93	32.89	-11.35
3	280.23	30.41 QP	46.00	-15.59	1.50 H	272	38.26	-7.85
4	430.65	26.00 QP	46.00	-20.00	1.50 H	149	30.79	-4.79
5	600.75	27.36 QP	46.00	-18.64	1.50 H	160	28.42	-1.06
6	928.30	34.03 QP	46.00	-11.97	2.00 H	133	28.19	5.84

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.

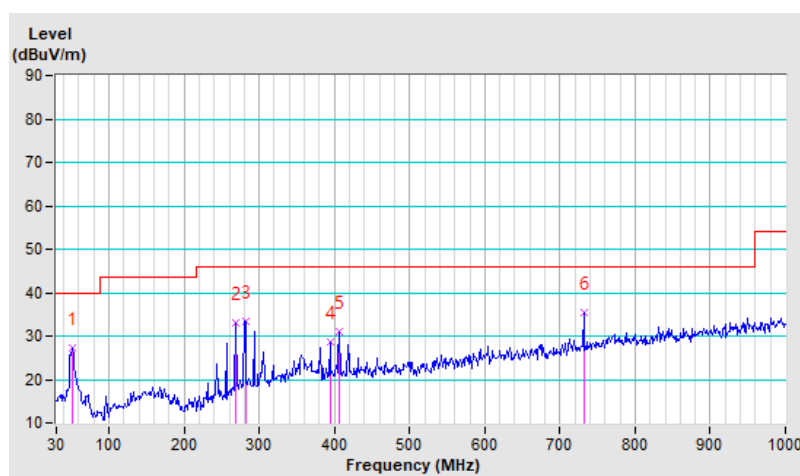


RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

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	51.09	27.23 QP	40.00	-12.77	1.50 V	93	35.92	-8.69
2	268.99	32.94 QP	46.00	-13.06	2.00 V	196	41.24	-8.30
3	281.64	33.35 QP	46.00	-12.65	2.00 V	111	41.16	-7.81
4	394.10	28.48 QP	46.00	-17.52	1.00 V	63	34.12	-5.64
5	406.75	31.13 QP	46.00	-14.87	1.00 V	326	36.65	-5.52
6	731.49	35.32 QP	46.00	-10.68	1.50 V	200	33.45	1.87

Remarks:

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



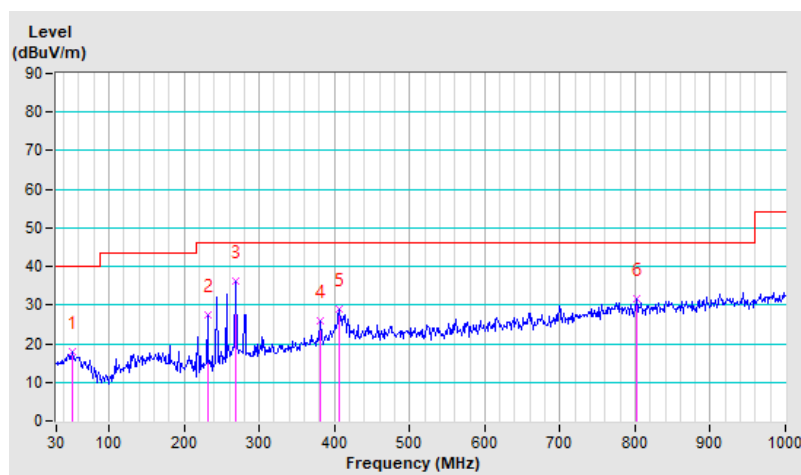
Mode B

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.09	17.83 QP	40.00	-22.17	1.00 H	189	26.52	-8.69
2	231.03	27.27 QP	46.00	-18.73	2.00 H	145	38.27	-11.00
3	268.99	36.23 QP	46.00	-9.77	1.00 H	238	44.53	-8.30
4	381.45	26.07 QP	46.00	-19.93	1.50 H	305	31.89	-5.82
5	406.75	29.14 QP	46.00	-16.86	1.50 H	150	34.66	-5.52
6	801.78	31.78 QP	46.00	-14.22	2.00 H	120	28.41	3.37

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.

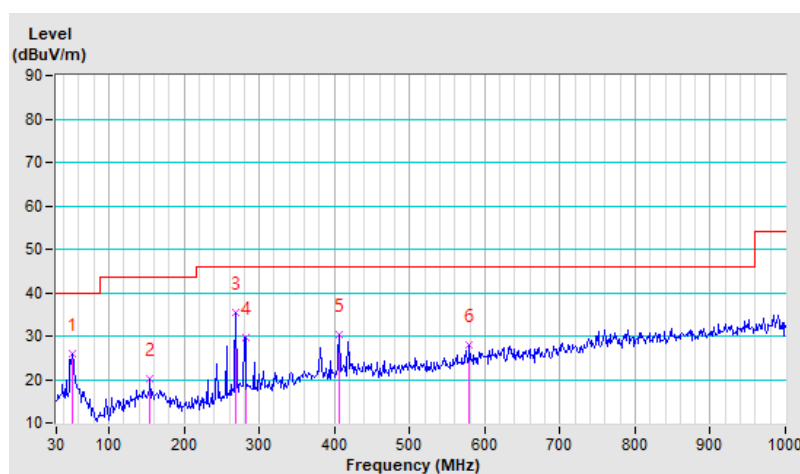


RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

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	51.09	25.89 QP	40.00	-14.11	1.00 V	269	34.58	-8.69
2	155.12	20.23 QP	43.50	-23.27	1.50 V	123	28.73	-8.50
3	268.99	35.56 QP	46.00	-10.44	1.00 V	20	43.86	-8.30
4	281.64	29.76 QP	46.00	-16.24	2.00 V	187	37.57	-7.81
5	406.75	30.28 QP	46.00	-15.72	1.50 V	282	35.80	-5.52
6	579.67	27.92 QP	46.00	-18.08	2.00 V	282	29.73	-1.81

Remarks:

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



7.6 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.4 PK	68.2	-10.8	1.35 H	109	47.4	10.0
2	*5845.00	115.0 PK			1.35 H	109	74.7	40.3
3	*5845.00	105.3 AV			1.35 H	109	65.0	40.3
4	#5895.00	65.4 PK	110.2	-44.8	1.35 H	109	55.0	10.4
5	11690.00	59.4 PK	74.0	-14.6	1.96 H	54	39.1	20.3
6	11690.00	46.5 AV	54.0	-7.5	1.96 H	54	26.2	20.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	58.1 PK	68.2	-10.1	2.26 V	312	48.1	10.0
2	*5845.00	119.1 PK			2.26 V	312	78.8	40.3
3	*5845.00	109.0 AV			2.26 V	312	68.7	40.3
4	#5895.00	66.2 PK	110.2	-44.0	2.26 V	312	55.8	10.4
5	11690.00	60.1 PK	74.0	-13.9	2.30 V	97	39.8	20.3
6	11690.00	46.8 AV	54.0	-7.2	2.30 V	97	26.5	20.3

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 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.5 PK	68.2	-10.7	1.17 H	108	47.5	10.0
2	*5865.00	114.8 PK			1.17 H	108	74.5	40.3
3	*5865.00	104.7 AV			1.17 H	108	64.4	40.3
4	#5895.00	71.0 PK	110.2	-39.2	1.17 H	108	60.6	10.4
5	#5925.00	59.2 PK	88.2	-29.0	1.17 H	108	48.7	10.5
6	11730.00	59.4 PK	74.0	-14.6	1.95 H	63	39.4	20.0
7	11730.00	46.5 AV	54.0	-7.5	1.95 H	63	26.5	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.5 PK	68.2	-10.7	2.13 V	308	47.5	10.0
2	*5865.00	118.6 PK			2.13 V	308	78.3	40.3
3	*5865.00	108.6 AV			2.13 V	308	68.3	40.3
4	#5895.00	74.2 PK	110.2	-36.0	2.13 V	308	63.8	10.4
5	#5925.00	60.0 PK	88.2	-28.2	2.13 V	208	49.5	10.5
6	11730.00	59.5 PK	74.0	-14.5	2.30 V	85	39.5	20.0
7	11730.00	46.8 AV	54.0	-7.2	2.30 V	85	26.8	20.0

Remarks:

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

RF Mode	802.11a	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.0 PK	68.2	-11.2	1.30 H	107	47.0	10.0
2	*5885.00	115.0 PK			1.30 H	107	74.5	40.5
3	*5885.00	105.8 AV			1.30 H	107	65.3	40.5
4	#5895.00	95.2 PK	110.2	-15.0	1.30 H	107	84.8	10.4
5	#5925.00	66.4 PK	88.2	-21.8	1.30 H	107	55.9	10.5
6	11770.00	59.2 PK	74.0	-14.8	1.94 H	57	39.3	19.9
7	11770.00	46.3 AV	54.0	-7.7	1.94 H	57	26.4	19.9
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	#5650.00	57.5 PK	68.2	-10.7	2.14 V	312	47.5	10.0
2	*5885.00	119.6 PK			2.14 V	312	79.1	40.5
3	*5885.00	109.8 AV			2.14 V	312	69.3	40.5
4	#5895.00	103.0 PK	110.2	-7.2	2.14 V	312	92.6	10.4
5	#5925.00	70.0 PK	88.2	-18.2	2.14 V	312	59.5	10.5
6	11770.00	59.5 PK	74.0	-14.5	2.31 V	88	39.6	19.9
7	11770.00	46.6 AV	54.0	-7.4	2.31 V	88	26.7	19.9

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) Beamforming	Channel	CH 169 : 5845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.0 PK	68.2	-11.2	1.30 H	103	47.0	10.0
2	*5845.00	117.3 PK			1.30 H	103	77.0	40.3
3	*5845.00	104.8 AV			1.30 H	103	64.5	40.3
4	#5895.00	66.5 PK	110.2	-43.7	1.30 H	103	56.1	10.4
5	11690.00	59.3 PK	74.0	-14.7	1.92 H	53	39.0	20.3
6	11690.00	46.4 AV	54.0	-7.6	1.92 H	53	26.1	20.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.2 PK	68.2	-11.0	2.22 V	315	47.2	10.0
2	*5845.00	122.5 PK			2.22 V	315	82.2	40.3
3	*5845.00	110.8 AV			2.22 V	315	70.5	40.3
4	#5895.00	67.0 PK	110.2	-43.2	2.22 V	315	56.6	10.4
5	11690.00	59.4 PK	74.0	-14.6	2.32 V	95	39.1	20.3
6	11690.00	46.5 AV	54.0	-7.5	2.32 V	95	26.2	20.3

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) Beamforming	Channel	CH 173 : 5865 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.2 PK	68.2	-11.0	1.30 H	105	47.2	10.0
2	*5865.00	117.8 PK			1.30 H	105	77.5	40.3
3	*5865.00	104.8 AV			1.30 H	105	64.5	40.3
4	#5895.00	70.3 PK	110.2	-39.9	1.30 H	105	59.9	10.4
5	#5925.00	60.8 PK	88.2	-27.4	1.30 H	105	50.3	10.5
6	11730.00	59.2 PK	74.0	-14.8	1.95 H	59	39.2	20.0
7	11730.00	46.4 AV	54.0	-7.6	1.95 H	59	26.4	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.7 PK	68.2	-10.5	2.06 V	309	47.7	10.0
2	*5865.00	122.4 PK			2.06 V	309	82.1	40.3
3	*5865.00	110.3 AV			2.06 V	309	70.0	40.3
4	#5895.00	80.9 PK	110.2	-29.3	2.06 V	309	70.5	10.4
5	#5925.00	61.9 PK	88.2	-26.3	2.06 V	309	51.4	10.5
6	11730.00	59.3 PK	74.0	-14.7	2.32 V	91	39.3	20.0
7	11730.00	46.7 AV	54.0	-7.3	2.32 V	91	26.7	20.0

Remarks:

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

RF Mode	802.11be (EHT20) Beamforming	Channel	CH 177 : 5885 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	56.7 PK	68.2	-11.5	1.28 H	112	46.7	10.0
2	*5885.00	118.2 PK			1.28 H	112	77.7	40.5
3	*5885.00	105.1 AV			1.28 H	112	64.6	40.5
4	#5895.00	101.4 PK	110.2	-8.8	1.28 H	112	91.0	10.4
5	#5925.00	74.4 PK	88.2	-13.8	1.28 H	112	63.9	10.5
6	11770.00	59.1 PK	74.0	-14.9	1.96 H	50	39.2	19.9
7	11770.00	46.1 AV	54.0	-7.9	1.96 H	50	26.2	19.9
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	#5650.00	57.4 PK	68.2	-10.8	2.54 V	314	47.4	10.0
2	*5885.00	121.5 PK			2.54 V	314	81.0	40.5
3	*5885.00	110.1 AV			2.54 V	314	69.6	40.5
4	#5895.00	108.0 PK	110.2	-2.2	2.54 V	314	97.6	10.4
5	#5925.00	81.3 PK	88.2	-6.9	2.47 V	314	70.8	10.5
6	11770.00	59.4 PK	74.0	-14.6	2.35 V	91	39.5	19.9
7	11770.00	46.4 AV	54.0	-7.6	2.35 V	91	26.5	19.9

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) Beamforming	Channel	CH 167 : 5835 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.5 PK	68.2	-10.7	1.29 H	111	47.5	10.0
2	*5835.00	115.9 PK			1.29 H	111	75.5	40.4
3	*5835.00	105.0 AV			1.29 H	111	64.6	40.4
4	#5895.00	75.0 PK	110.2	-35.2	1.29 H	111	64.6	10.4
5	11670.00	59.3 PK	74.0	-14.7	1.93 H	51	39.0	20.3
6	11670.00	46.6 AV	54.0	-7.4	1.93 H	51	26.3	20.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	58.2 PK	68.2	-10.0	1.95 V	315	48.2	10.0
2	*5835.00	119.6 PK			1.95 V	315	79.2	40.4
3	*5835.00	109.6 AV			1.95 V	315	69.2	40.4
4	#5895.00	76.4 PK	110.2	-33.8	1.95 V	315	66.0	10.4
5	11670.00	59.5 PK	74.0	-14.5	2.31 V	94	39.2	20.3
6	11670.00	46.8 AV	54.0	-7.2	2.31 V	94	26.5	20.3

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 (EHT40) Beamforming	Channel	CH 175 : 5875 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.9 PK	68.2	-10.3	1.17 H	110	47.9	10.0
2	*5875.00	114.5 PK			1.17 H	110	74.2	40.3
3	*5875.00	105.4 AV			1.17 H	110	65.1	40.3
4	#5895.00	95.4 PK	130.2	-34.8	1.17 H	110	85.0	10.4
5	#5895.00	81.1 AV	110.2	-29.1	1.17 H	110	70.7	10.4
6	#5925.00	77.7 PK	108.2	-30.5	1.17 H	110	67.2	10.5
7	#5925.00	64.1 AV	88.2	-24.1	1.17 H	110	53.6	10.5
8	11750.00	59.0 PK	74.0	-15.0	1.98 H	60	39.1	19.9
9	11750.00	46.0 AV	54.0	-8.0	1.98 H	60	26.1	19.9
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	#5650.00	58.5 PK	68.2	-9.7	2.55 V	313	48.5	10.0
2	*5875.00	119.8 PK			2.55 V	313	79.5	40.3
3	*5875.00	110.5 AV			2.55 V	313	70.2	40.3
4	#5895.00	101.8 PK	130.2	-28.4	2.55 V	313	91.4	10.4
5	#5895.00	86.9 AV	110.2	-23.3	2.55 V	313	76.5	10.4
6	#5925.00	89.3 PK	108.2	-18.9	2.55 V	313	78.8	10.5
7	#5925.00	70.8 AV	88.2	-17.4	2.55 V	313	60.3	10.5
8	11750.00	59.1 PK	74.0	-14.9	2.34 V	88	39.2	19.9
9	11750.00	46.2 AV	54.0	-7.8	2.34 V	88	26.3	19.9

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) Beamforming	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	61.5 PK	68.2	-6.7	1.35 H	108	51.5	10.0
2	*5855.00	114.5 PK			1.35 H	108	74.2	40.3
3	*5855.00	103.8 AV			1.35 H	108	63.5	40.3
4	#5895.00	91.6 PK	110.2	-18.6	1.35 H	108	81.2	10.4
5	#5925.00	81.1 PK	88.2	-7.1	1.35 H	108	70.6	10.5
6	11710.00	59.2 PK	74.0	-14.8	1.90 H	53	39.1	20.1
7	11710.00	45.9 AV	54.0	-8.1	1.90 H	53	25.8	20.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	62.5 PK	68.2	-5.7	2.47 V	306	52.5	10.0
2	*5855.00	119.5 PK			2.47 V	306	79.2	40.3
3	*5855.00	108.8 AV			2.47 V	306	68.5	40.3
4	#5895.00	99.1 PK	110.2	-11.1	2.47 V	306	88.7	10.4
5	#5925.00	84.0 PK	88.2	-4.2	2.47 V	306	73.5	10.5
6	11710.00	59.6 PK	74.0	-14.4	2.35 V	93	39.5	20.1
7	11710.00	46.3 AV	54.0	-7.7	2.35 V	93	26.2	20.1

Remarks:

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

RF Mode	802.11be (EHT160) Beamforming	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 61% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	61.6 PK	68.2	-6.6	1.32 H	107	51.6	10.0
2	*5815.00	108.7 PK			1.32 H	107	68.2	40.5
3	*5815.00	97.7 AV			1.32 H	107	57.2	40.5
4	#5895.00	81.0 PK	110.2	-29.2	1.32 H	107	70.6	10.4
5	#5939.00	62.1 PK	88.2	-26.1	1.32 H	107	51.6	10.5
6	11630.00	59.4 PK	74.0	-14.6	1.90 H	52	38.9	20.5
7	11630.00	46.3 AV	54.0	-7.7	1.90 H	52	25.8	20.5
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	#5650.00	68.0 PK	68.2	-0.2	2.47 V	332	58.0	10.0
2	*5815.00	112.7 PK			2.47 V	332	72.2	40.5
3	*5815.00	103.2 AV			2.47 V	332	62.7	40.5
4	#5895.00	87.6 PK	110.2	-22.6	2.47 V	332	77.2	10.4
5	#5939.00	68.3 PK	88.2	-19.9	2.47 V	332	57.8	10.5
6	11630.00	59.7 PK	74.0	-14.3	2.26 V	97	39.2	20.5
7	11630.00	46.5 AV	54.0	-7.5	2.26 V	97	26.0	20.5

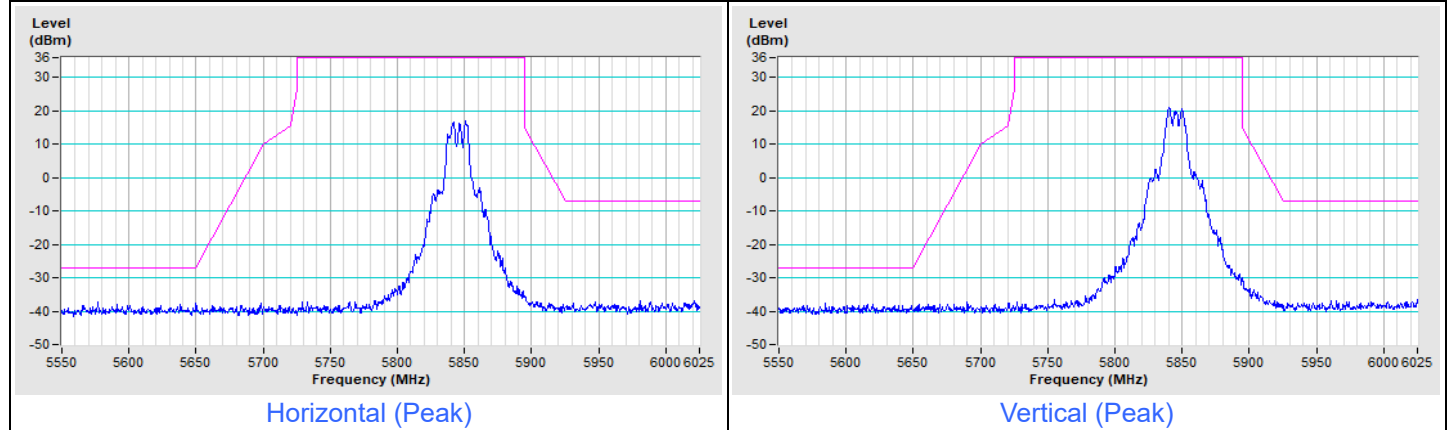
Remarks:

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.

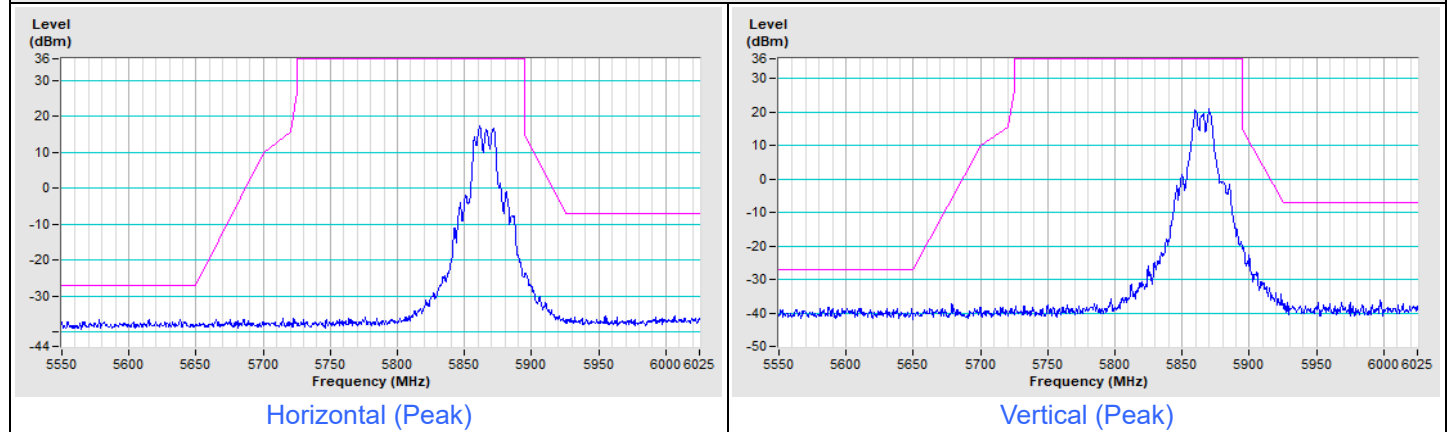
Plot of Band Edge

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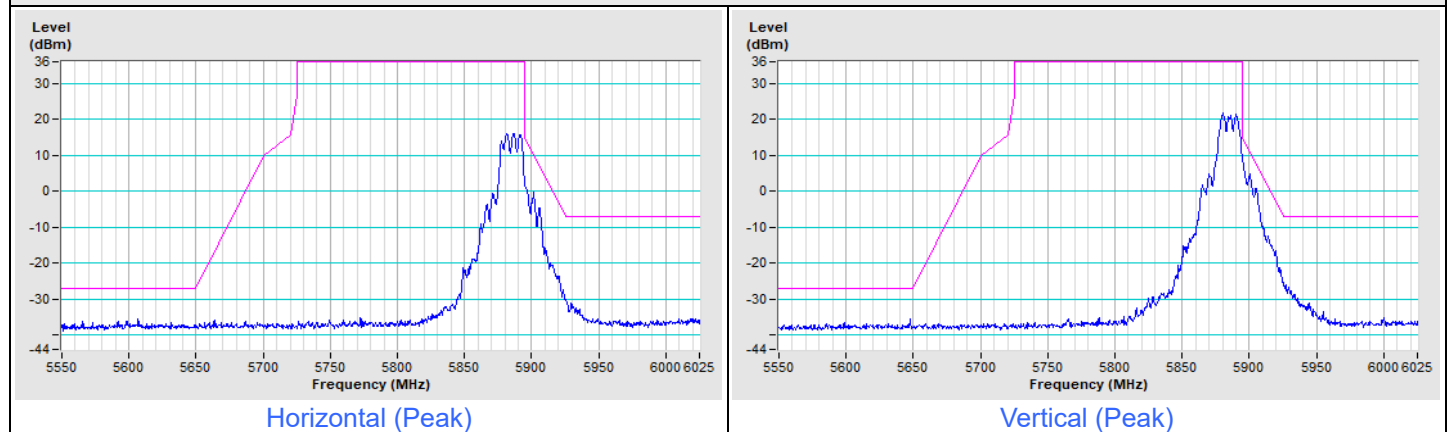
802.11a Channel 169



802.11a Channel 173

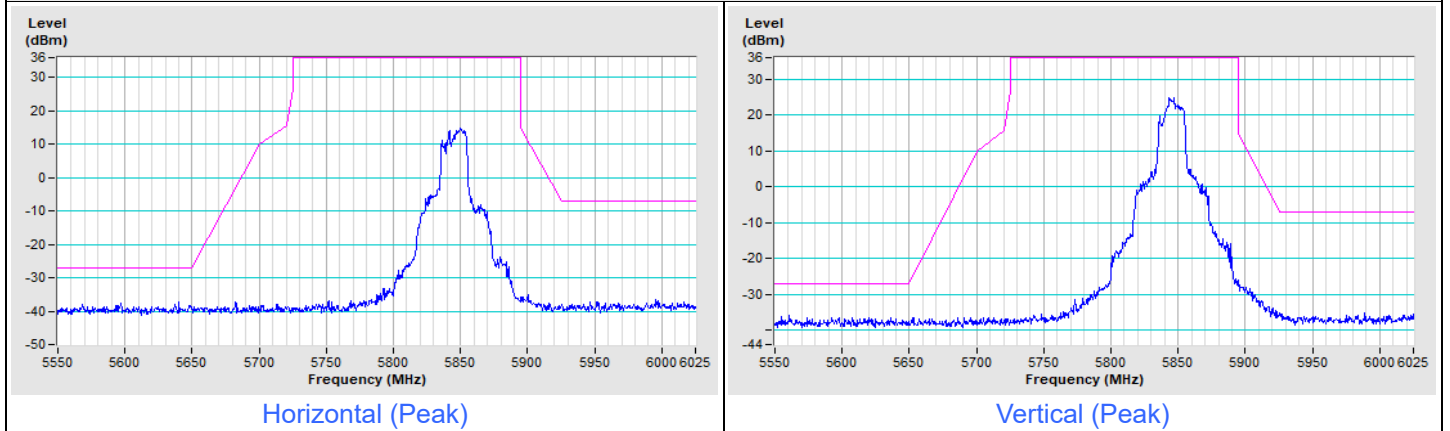


802.11a Channel 177

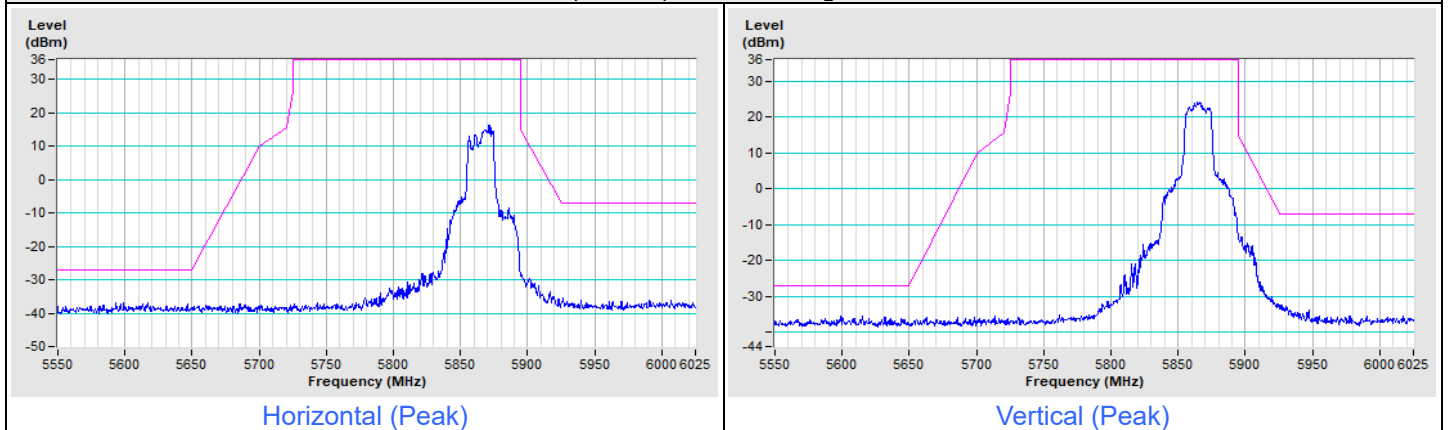


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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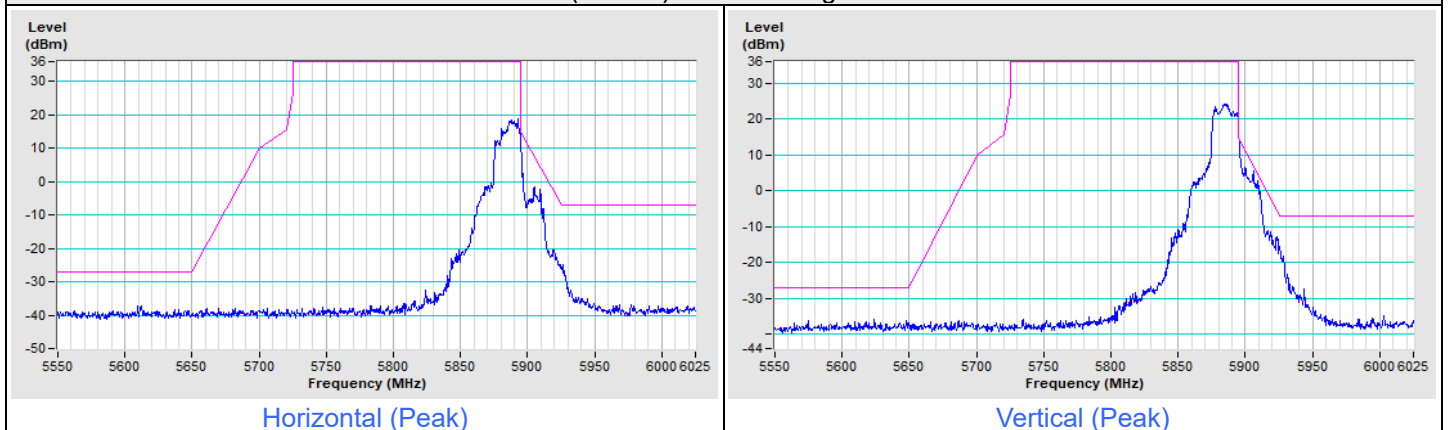
802.11be (EHT20) Beamforming Channel 169



802.11be (EHT20) Beamforming Channel 173

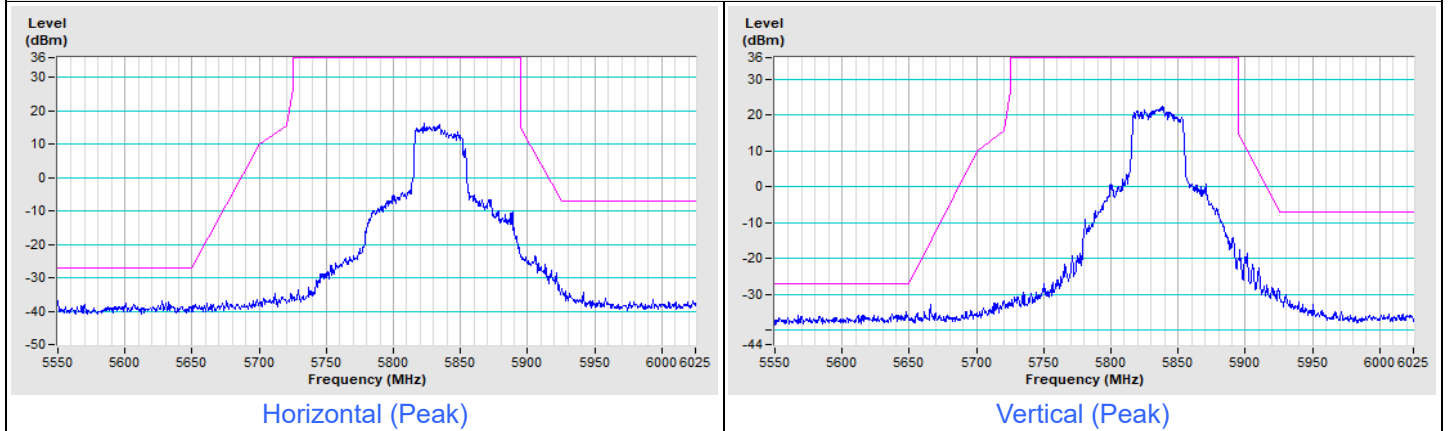


802.11be (EHT20) Beamforming Channel 177

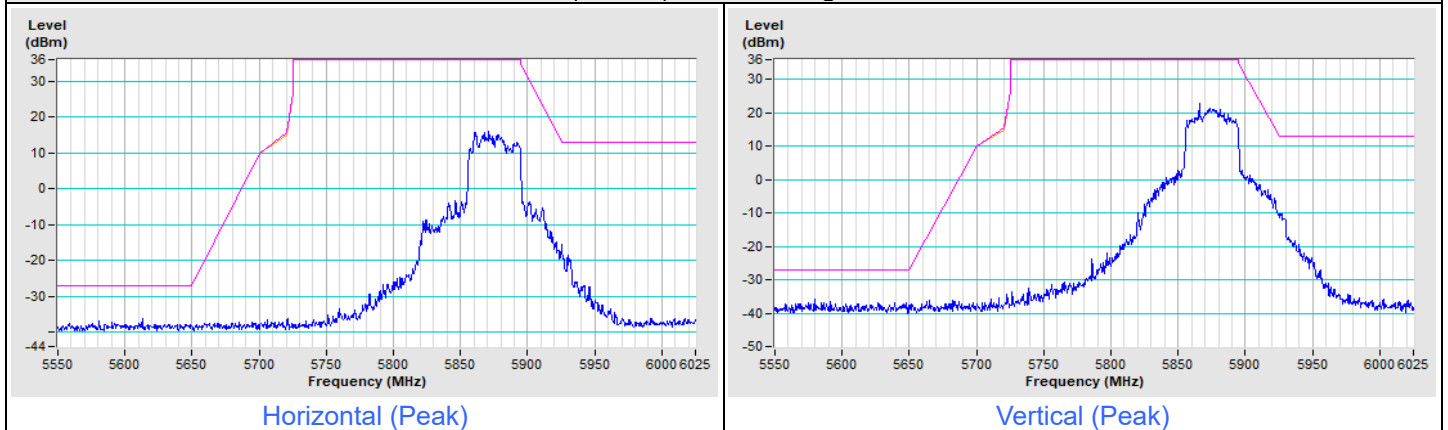


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Beamforming Channel 167

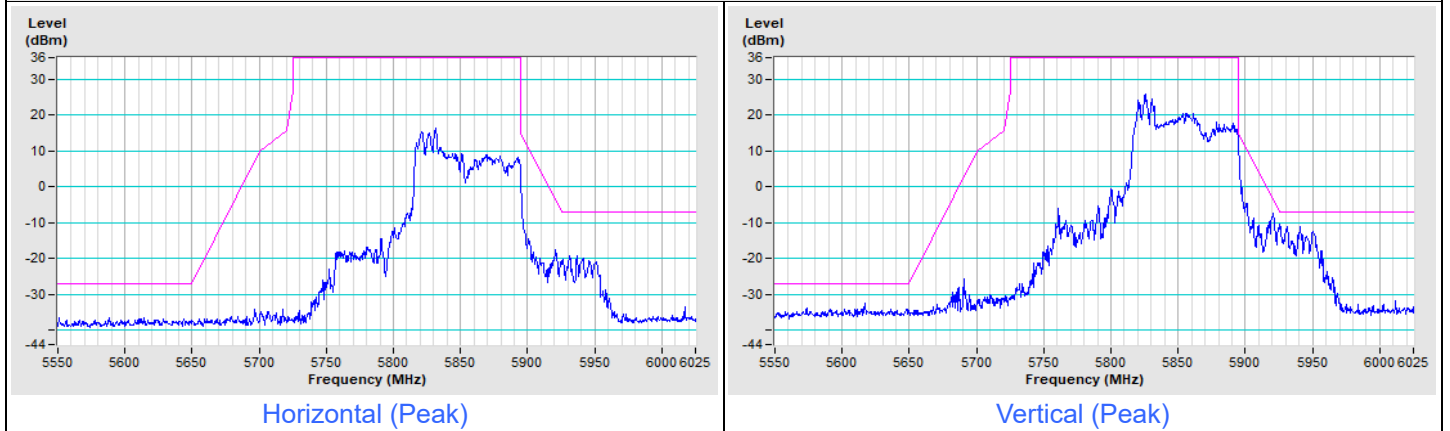


802.11be (EHT40) Beamforming Channel 175

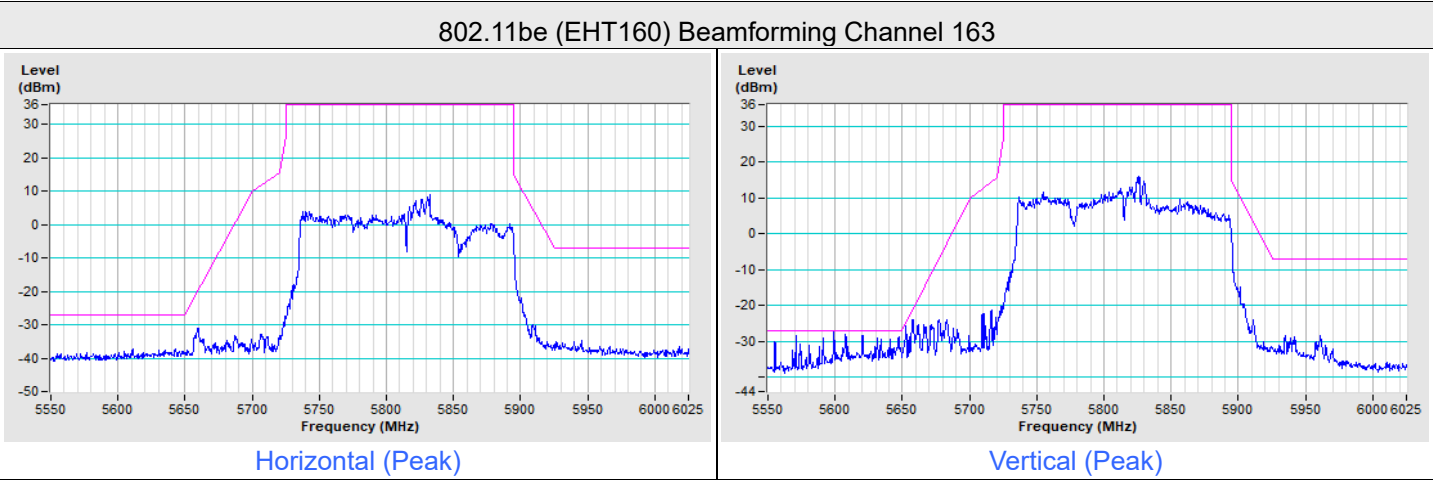


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT80) Beamforming Channel 171



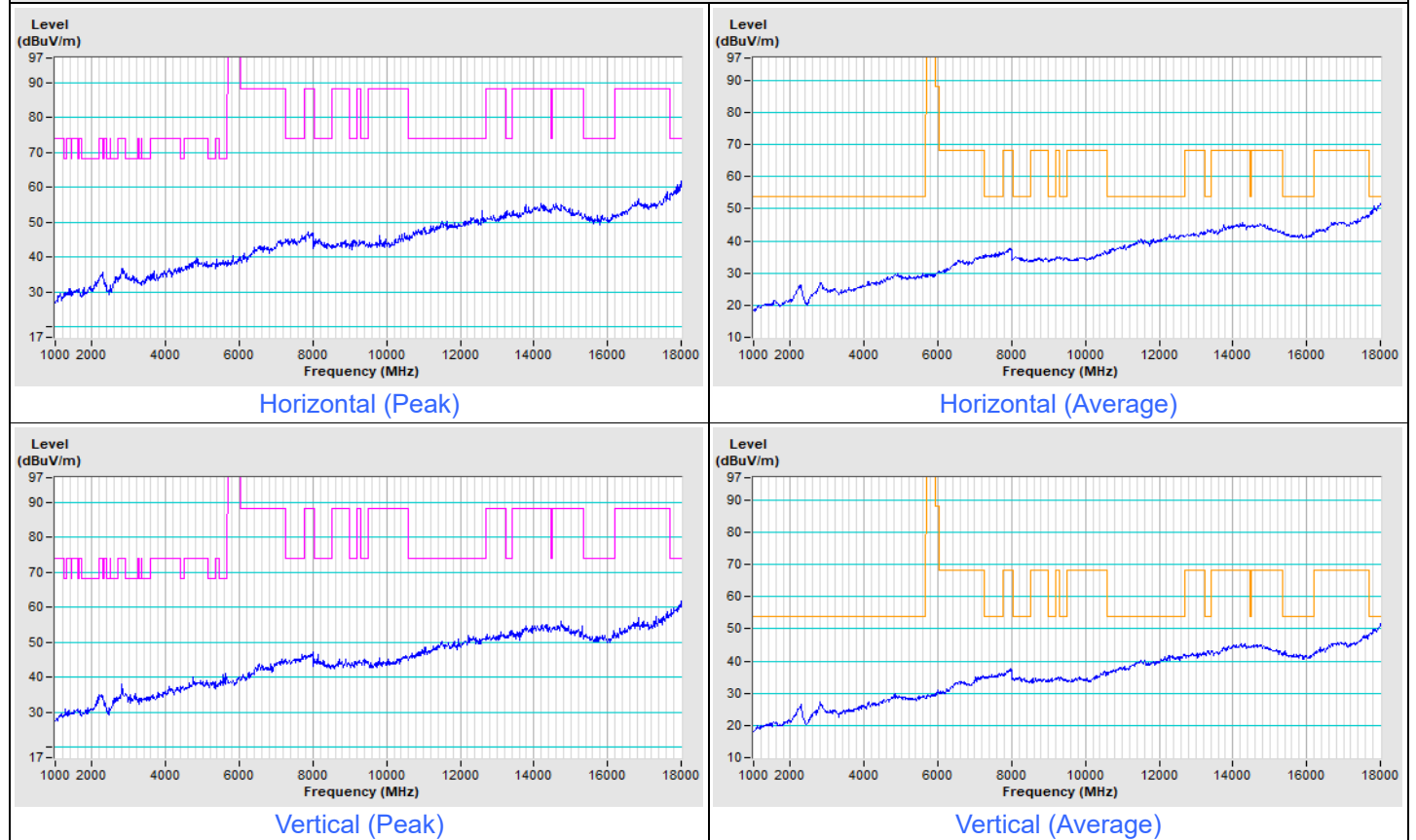
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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Plot of Other Emission

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 169

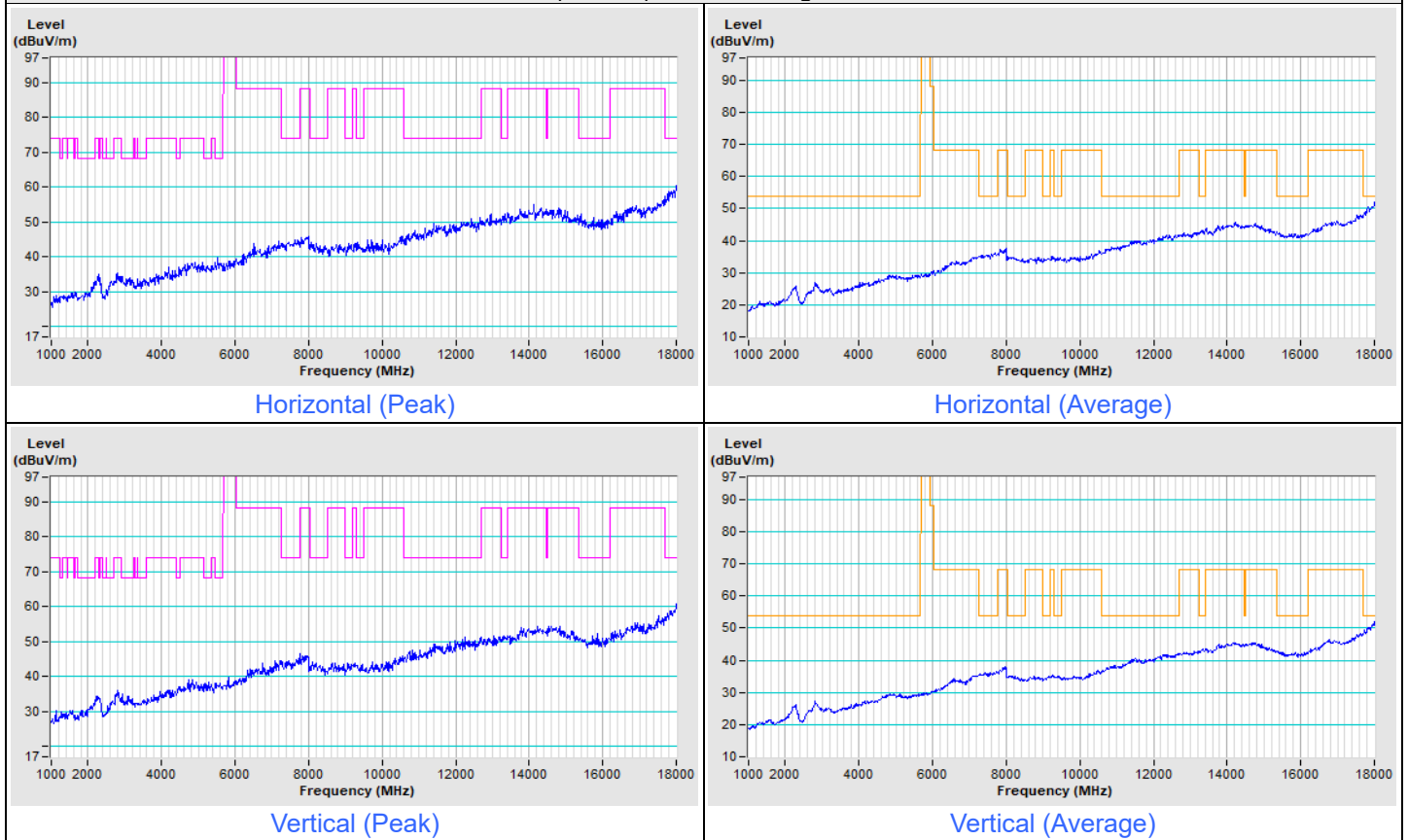


Notes:

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) Beamforming Channel 169

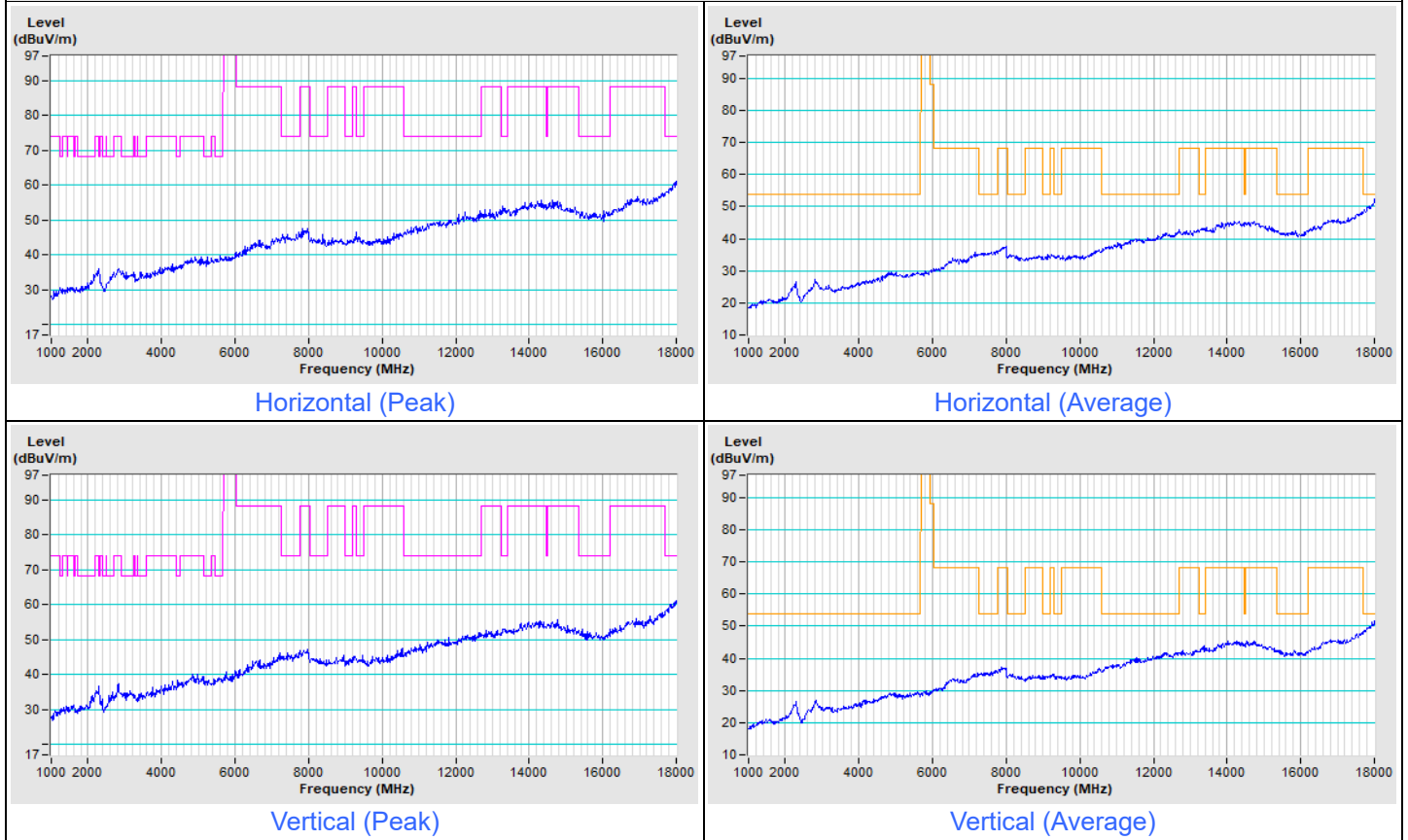


Notes:

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) Beamforming Channel 167

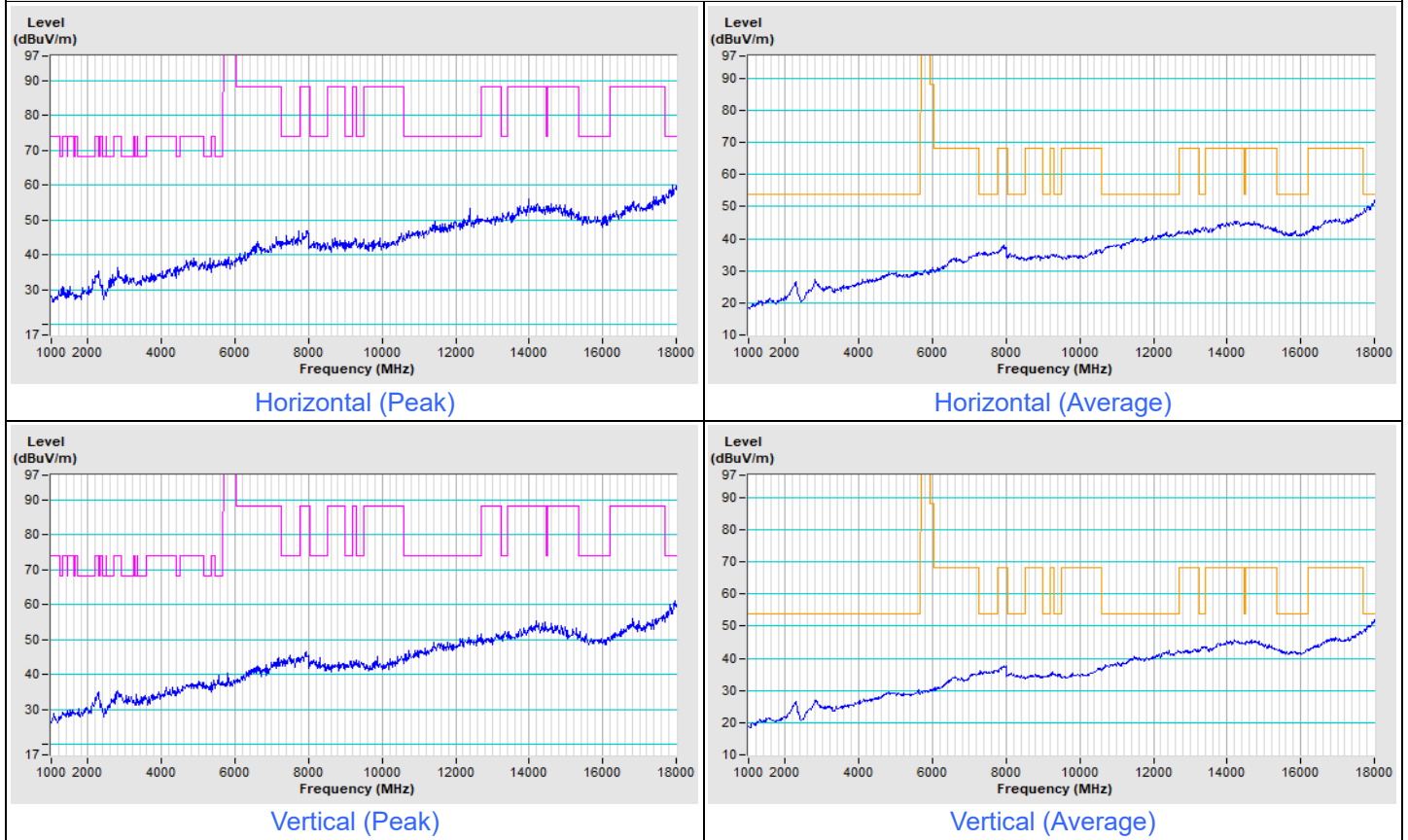


Notes:

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) Beamforming Channel 171

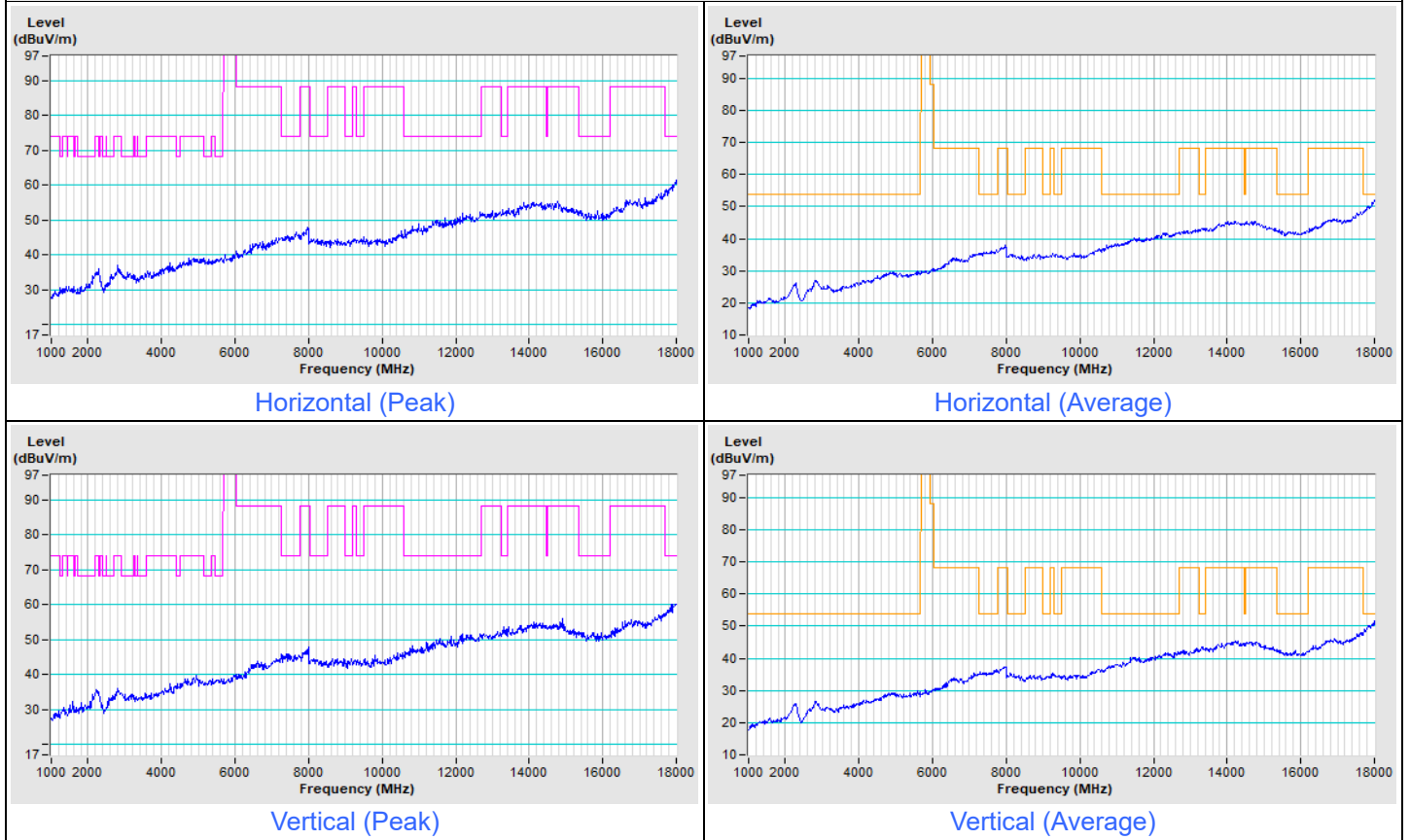


Notes:

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 (EHT160) Beamforming Channel 163



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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