

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCUN-WTW-P23120641A

FCC ID: H8NAPM7210

Product: AT&T Internet Air™ for Business Wi-Fi Extender

Brand: AT&T

Model No.: APM7210D

Received Date: 2023/12/26

Test Date: 2024/1/11 ~ 2024/2/1

Issued Date: 2024/3/6

Applicant: ASKEY COMPUTER CORP.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by: Jeremy Lin, **Date:** 2024/3/6
Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior 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	9
3.4 Test Mode Applicability and Tested Channel Detail	10
3.5 Duty Cycle of Test Signal	11
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	13
4 Test Instruments	14
4.1 26 dB Bandwidth	14
4.2 RF Output Power	14
4.3 Power Spectral Density	14
4.4 6 dB Bandwidth	14
4.5 Occupied Bandwidth	14
4.6 Frequency Stability	15
4.7 AC Power Conducted Emissions	15
4.8 Unwanted Emissions below 1 GHz	16
4.9 Unwanted Emissions above 1 GHz	17
5 Limits of Test Items	18
5.1 26 dB Bandwidth	18
5.2 RF Output Power	18
5.3 Power Spectral Density	18
5.4 6 dB Bandwidth	18
5.5 Occupied Bandwidth	18
5.6 Frequency Stability	18
5.7 AC Power Conducted Emissions	19
5.8 Unwanted Emissions below 1 GHz	19
5.9 Unwanted Emissions above 1 GHz	20
6 Test Arrangements	21
6.1 26 dB Bandwidth	21
6.1.1 Test Setup	21
6.1.2 Test Procedure	21
6.2 RF Output Power	21
6.2.1 Test Setup	21
6.2.2 Test Procedure	21
6.3 Power Spectral Density	22
6.3.1 Test Setup	22
6.3.2 Test Procedure	22
6.4 6 dB Bandwidth	22
6.4.1 Test Setup	22
6.4.2 Test Procedure	22
6.5 Occupied Bandwidth	23
6.5.1 Test Setup	23
6.5.2 Test Procedure	23
6.6 Frequency Stability	23
6.6.1 Test Setup	23
6.6.2 Test Procedure	23
6.7 AC Power Conducted Emissions	24



6.7.1	Test Setup	24
6.7.2	Test Procedure	24
6.8	Unwanted Emissions below 1 GHz	25
6.8.1	Test Setup	25
6.8.2	Test Procedure	26
6.9	Unwanted Emissions above 1 GHz	27
6.9.1	Test Setup	27
6.9.2	Test Procedure	27
7	Test Results of Test Item	28
7.1	26 dB Bandwidth	28
7.2	RF Output Power	33
7.3	Power Spectral Density	39
7.4	6 dB Bandwidth	45
7.5	Occupied Bandwidth	47
7.6	Frequency Stability	50
7.7	AC Power Conducted Emissions	51
7.8	Unwanted Emissions below 1 GHz	53
7.9	Unwanted Emissions above 1 GHz	55
8	Pictures of Test Arrangements	98
9	Information of the Testing Laboratories	99

Release Control Record

Issue No.	Description	Date Issued
RFBCUN-WTW-P23120641A	Original release.	2024/3/6

1 Certificate

Product: AT&T Internet Air™ for Business Wi-Fi Extender

Brand: AT&T

Test Model: APM7210D

Sample Status: Engineering sample

Applicant: ASKEY COMPUTER CORP.

Test Date: 2024/1/11 ~ 2024/2/1

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

Measurement ANSI C63.10-2013

procedure: 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)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 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(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -10.67 dB at 0.15800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.8 dB at 146.75 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 5350.00 and 5460.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is U.FL not a standard connector.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

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:

Parameter	Specification	Uncertainty (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	30 MHz ~ 1 GHz	2.02 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.01 dB
	18 GHz ~ 40 GHz	1.15 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	AT&T Internet Air™ for Business Wi-Fi Extender
Brand	AT&T
Test Model	APM7210D
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only 1024QAM for OFDMA in 11ax mode only 4096QAM for OFDMA in 11be EHT mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 2882 Mbps
Operating Frequency	5.25 GHz ~ 5.32 GHz 5.50 GHz ~ 5.72 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 16 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 8 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 4 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 2
Output Power	5.25 GHz ~ 5.32 GHz: 248.625 mW (23.96 dBm) 5.50 GHz ~ 5.72 GHz: 243.898 mW (23.87 dBm)
EUT Category	Indoor Access Point

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report (BV CPS report no.: RFBCUN-WTW-P23120641-1) is adding 5.25GHz to 5.32GHz and 5.50GHz to 5.72GHz by software.
2. The EUT uses following accessories.

AC Adapter 1		
Brand	Model	Specification
MASS POWER	S030-1C120250VU	AC Input: 100-240 Vac, 50/60 Hz, 0.8 A DC Output: 12.0 Vdc, 2.5 A DC Output Cable: 1.52 m without core

3. Simultaneously transmission condition.

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 refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Gain (dBi)						Antenna Type	Connector Type
	2400 MHz	2450 MHz	2500 MHz	5150 MHz	5500 MHz	5850 MHz		
Ant 11	4.02	3.91	4.56	-	-	-	PCB	U.FL
Ant 12	4.31	3.79	3.51	-	-	-	PCB	U.FL
Ant 13	-	-	-	4.19	4.45	4.18	PCB	U.FL
Ant 14	-	-	-	4.54	3.95	4.76	PCB	U.FL

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	Tx & Rx Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX
802.11be (EHT80)	2TX	2RX
802.11be (EHT160)	2TX	2RX

Note:

1. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 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 manufacturer will control the power for 802.11n/ac/ax mode is same as the 802.11be mode or more lower than it and investigated worst case to representative mode in test report.
2. For 802.11ax and 802.11be, the EUT not support Partial RU (resource unit) and channel puncturing/bandwidth reduction mechanisms.
3. The EUT does not support beamforming function.

3.3 Channel List

FOR 5250 ~ 5320 MHz

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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

Channel	Frequency
58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

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

Channel	Frequency
114	5570 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	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:	The EUT is designed to be positioned on the Z-axis only.

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11be (EHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11be (EHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11be (EHT80)	58, 106, 122, 138	BPSK	MCS0
	802.11be (EHT160)	50, 114	BPSK	MCS0
RF Output Power / Power Spectral Density	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11be (EHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11be (EHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11be (EHT80)	58, 106, 122, 138	BPSK	MCS0
	802.11be (EHT160)	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	144	BPSK	6Mb/s
	802.11be (EHT20)	144	BPSK	MCS0
	802.11be (EHT40)	142	BPSK	MCS0
	802.11be (EHT80)	138	BPSK	MCS0
Occupied Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11be (EHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11be (EHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11be (EHT80)	58, 106, 122, 138	BPSK	MCS0
	802.11be (EHT160)	50, 114	BPSK	MCS0
Frequency Stability	802.11a	52	unmodulated	-
AC Power Conducted Emissions	802.11be (EHT40)	54	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11be (EHT40)	54	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11be (EHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11be (EHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11be (EHT80)	58, 106, 122, 138	BPSK	MCS0
	802.11be (EHT160)	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

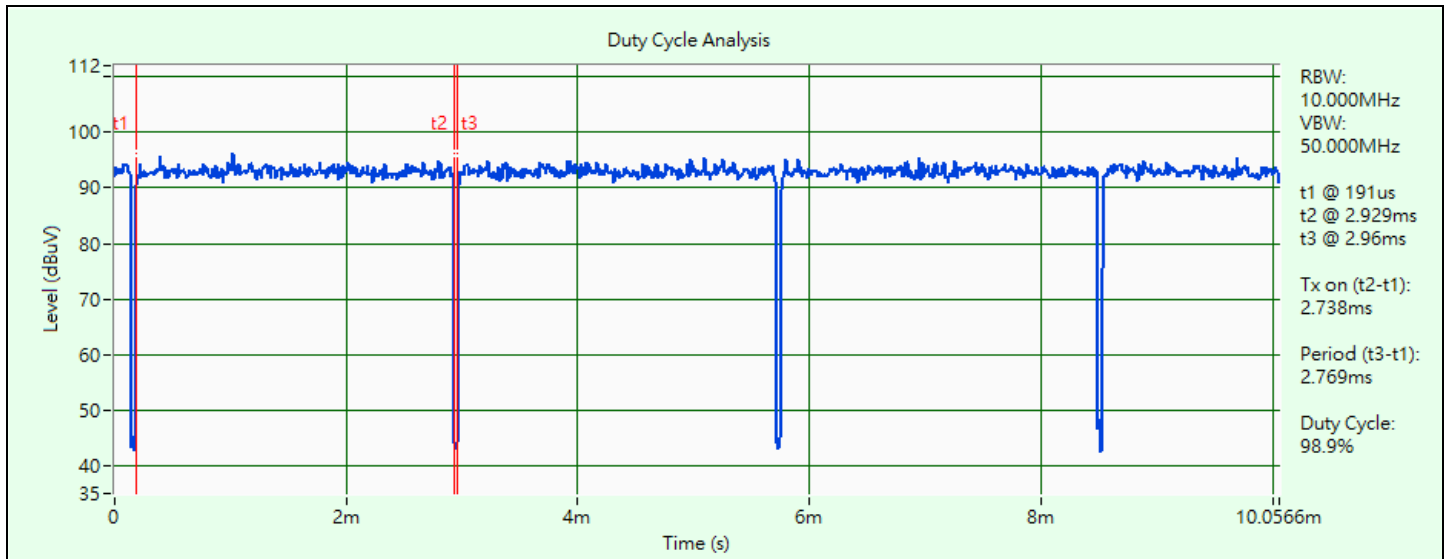
802.11a: Duty cycle = 2.738 ms / 2.769 ms x 100% = 98.9%

802.11be (EHT20): Duty cycle = 2.033 ms / 2.063 ms x 100% = 98.5%

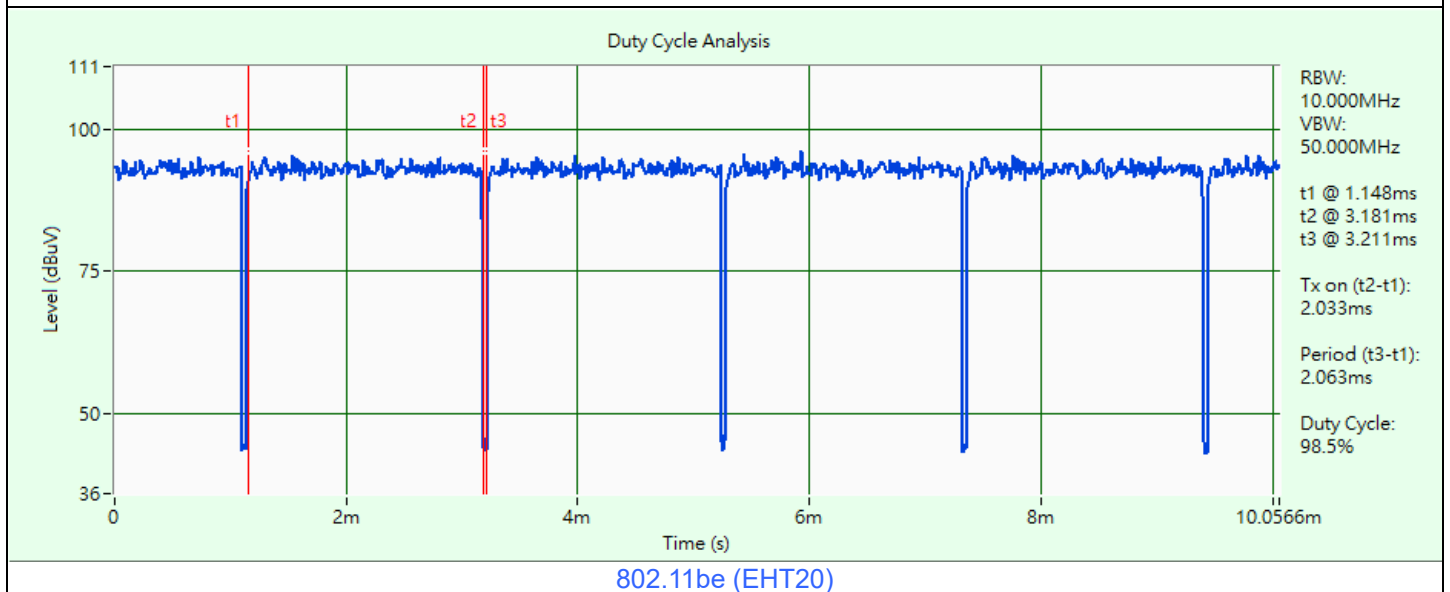
802.11be (EHT40): Duty cycle = 2.023 ms / 2.053 ms x 100% = 98.5%

802.11be (EHT80): Duty cycle = 1.932 ms / 1.963 ms x 100% = 98.4%

802.11be (EHT160): Duty cycle = 1.932 ms / 1.963 ms x 100% = 98.4%

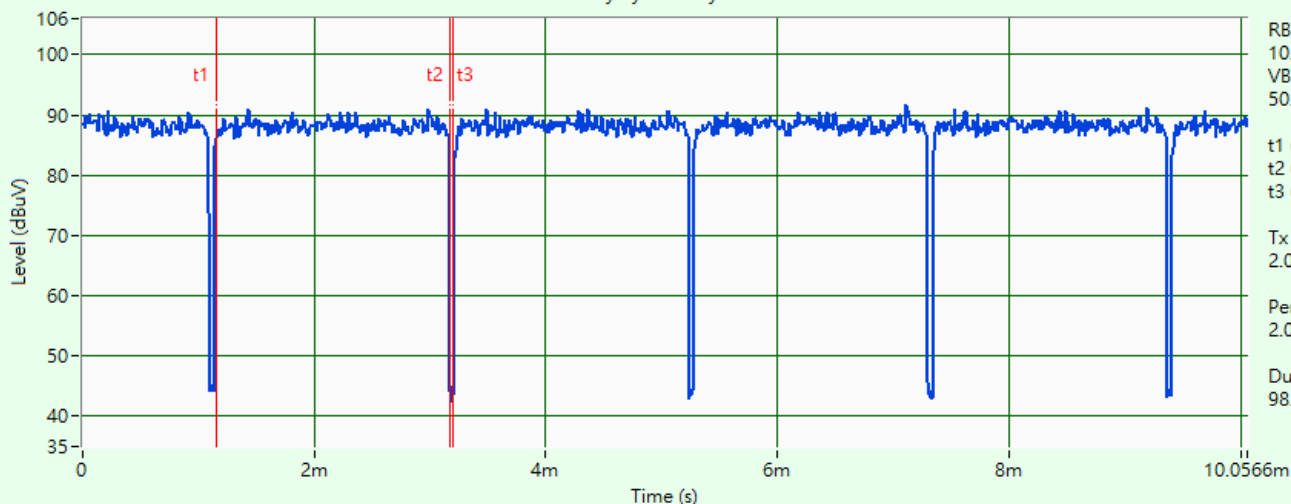


802.11a



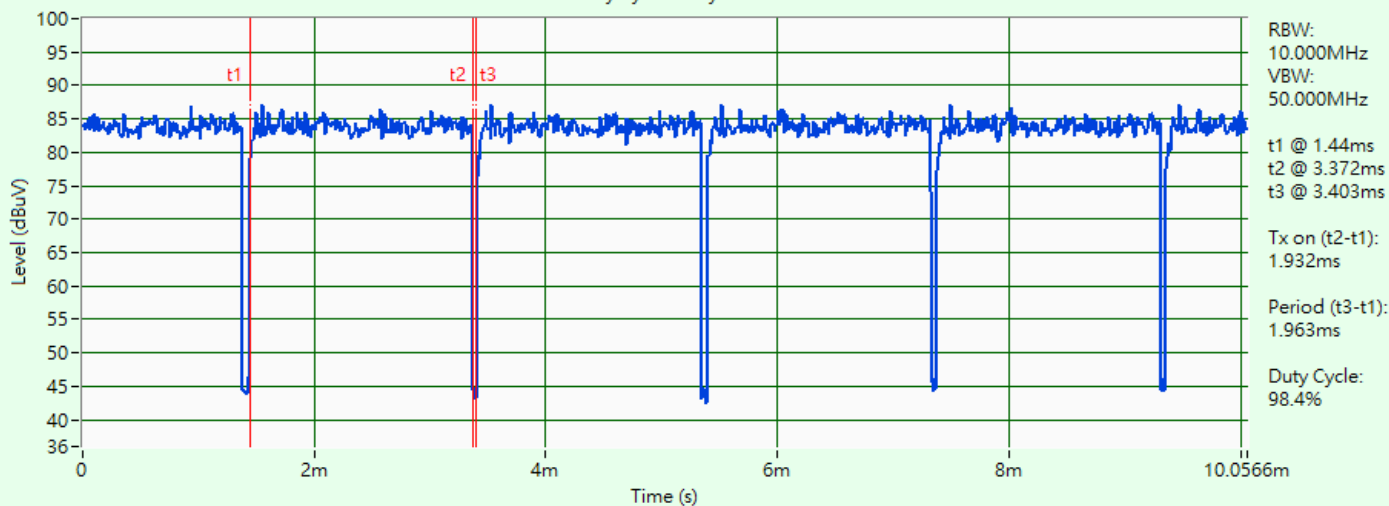
802.11be (EHT20)

Duty Cycle Analysis



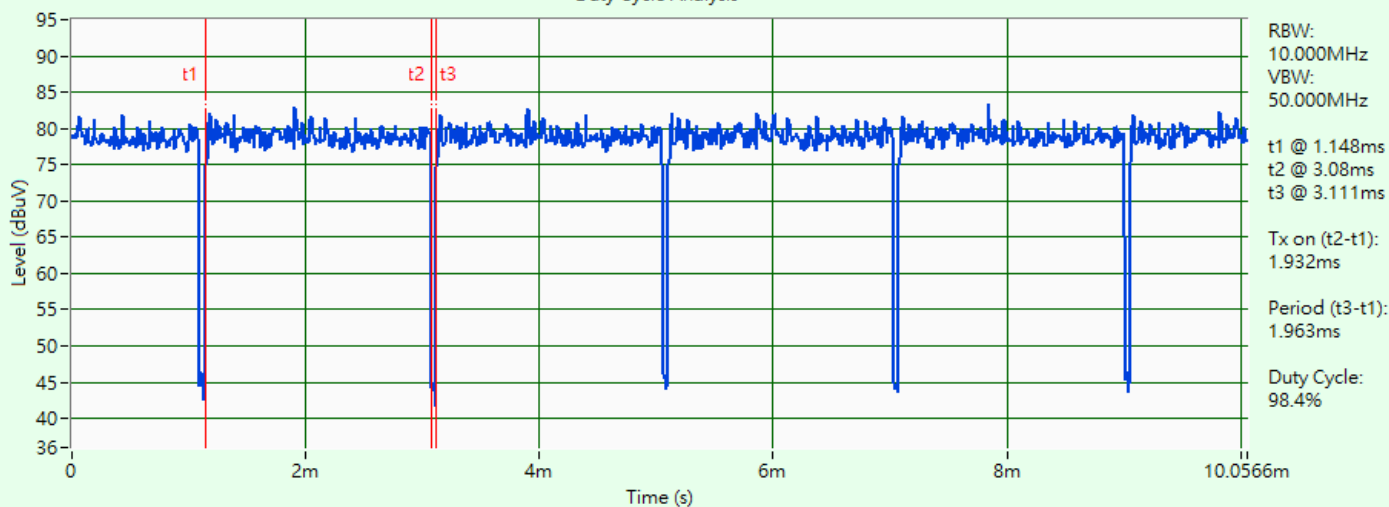
802.11be (EHT40)

Duty Cycle Analysis



802.11be (EHT80)

Duty Cycle Analysis

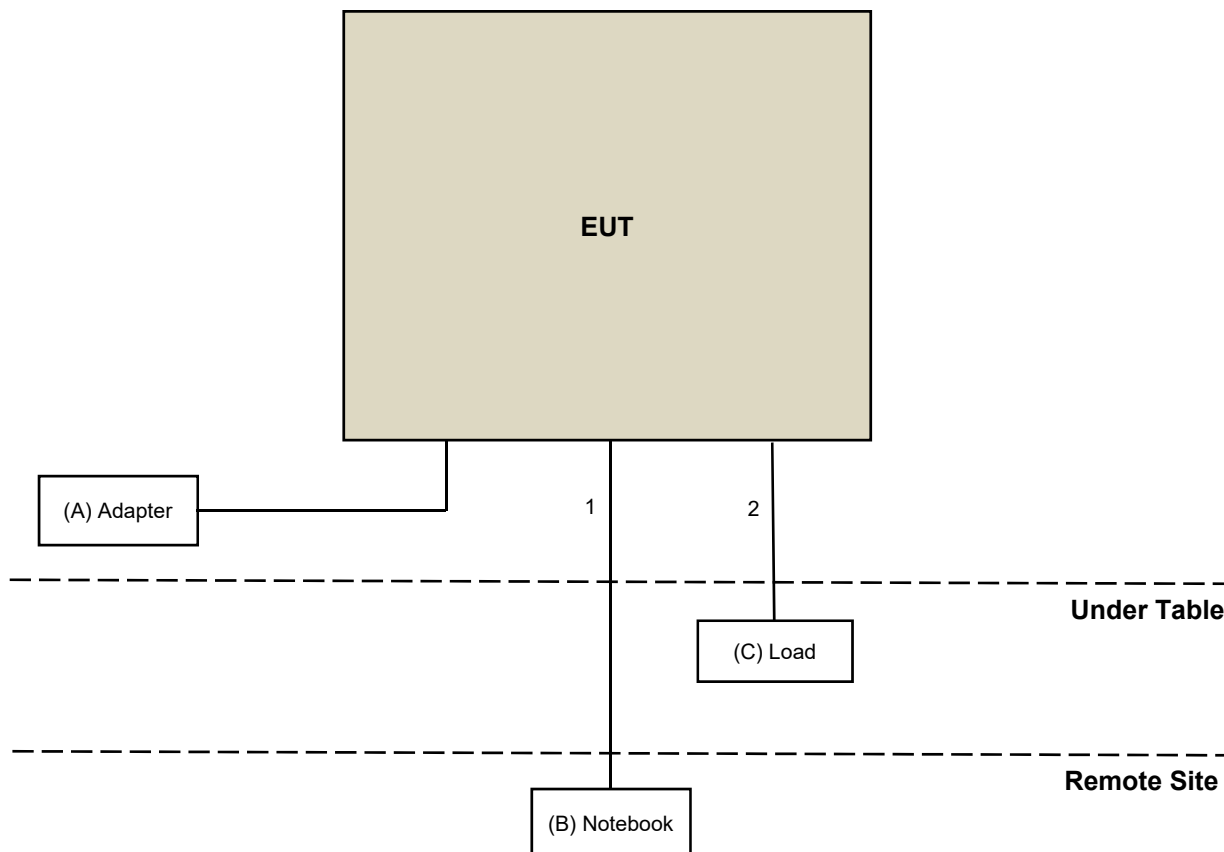


802.11be (EHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software MT7990 QA 0.0.2.99 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	MASS POWER	S030-1C120250VU	WTW231228/014Q14N13	N/A	Accessory of EUT
B	Notebook	Lenovo	TP00048A	N/A	N/A	Provided by Lab
C	Load	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	10	N	0	Provided by Lab
2	RJ-45 Cable	1	1.5	N	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 26 dB Bandwidth

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

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/22

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Peak Power Analyzer Keysight	8990B	MY51000485	2024/1/21	2025/1/20
Wideband Power Sensor Keysight	N1923A	MY58020002	2024/1/18	2025/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/22

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Supply JIN YIH Technology	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2023/7/6	2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/1/22

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2023/11/22	2024/11/21
50 ohm terminal resistance	E1-011279	04	2023/11/22	2024/11/21
	E1-011280	05	2023/11/22	2024/11/21
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESR3	102783	2023/12/13	2024/12/12
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2024/1/29 ~ 2024/2/1

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-616	2023/10/18	2024/10/17
MXE EMI Receiver Agilent	N9038A	MY52260177	2023/9/15	2024/9/14
Preamplifier Agilent	310N	187226	2023/6/13	2024/6/12
PXA Signal Analyzer Keysight	N9030A	MY54490561	2023/7/25	2024/7/24
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2023/6/13	2024/6/12
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2023/6/13	2024/6/12
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2024/1/13 ~ 2024/1/29

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	8	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00143293	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2023/10/16	2024/10/15
MXE EMI Receiver Agilent	N9038A	MY52260177	2023/9/15	2024/9/14
Preamplifier Agilent	83017A	MY39501373	2023/6/13	2024/6/12
Preamplifier EMCI	EMC 184045	980116	2023/9/27	2024/9/26
PXA Signal Analyzer Keysight	N9030A	MY54490561	2023/7/25	2024/7/24
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2023/6/13	2024/6/12
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2023/6/13	2024/6/12
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2024/1/6	2025/1/5
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2024/1/6	2025/1/5
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2024/1/11 ~ 2024/1/13

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 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 Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

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

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 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.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 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.

5.8 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).

5.9 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 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	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.

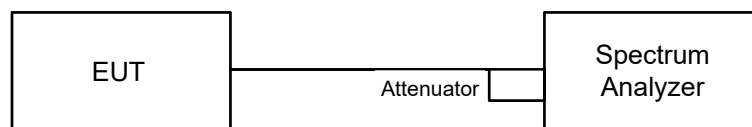
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

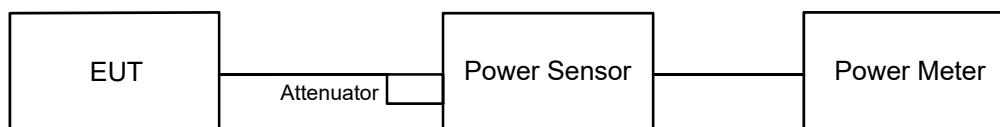


6.1.2 Test Procedure

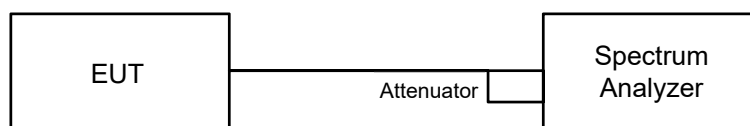
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 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.

For channel straddling:

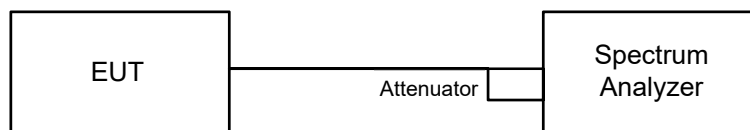
Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing ≤ 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 straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or 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 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

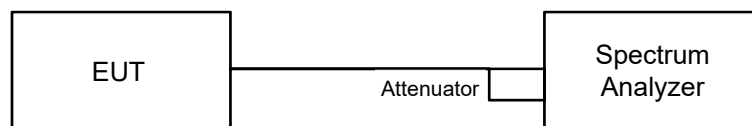
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq 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

6.4 6 dB Bandwidth

6.4.1 Test Setup

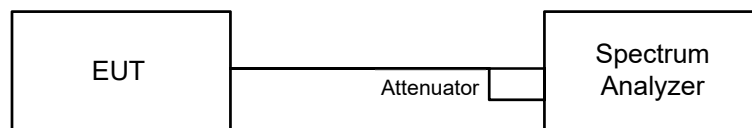


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

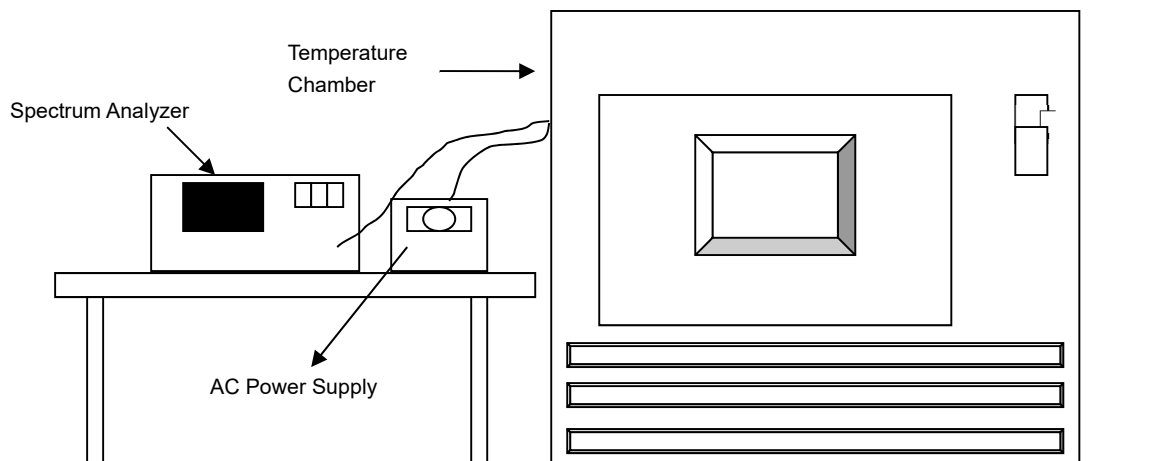


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

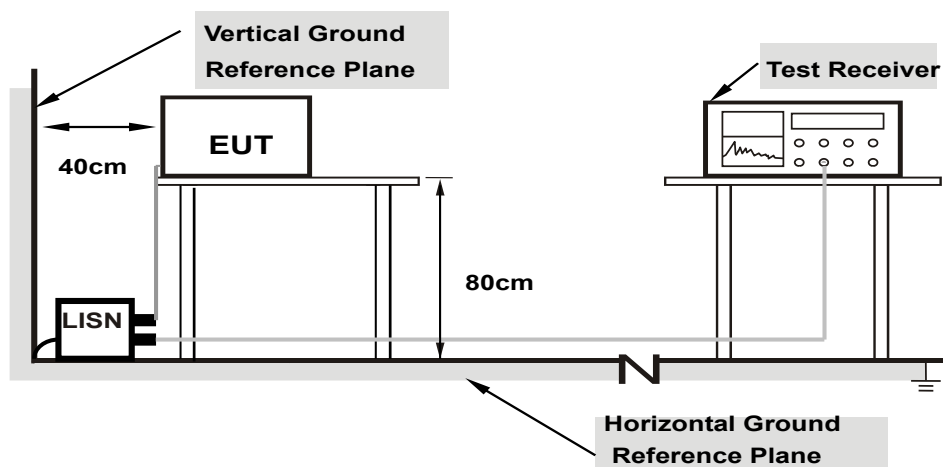


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 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).

6.7.2 Test Procedure

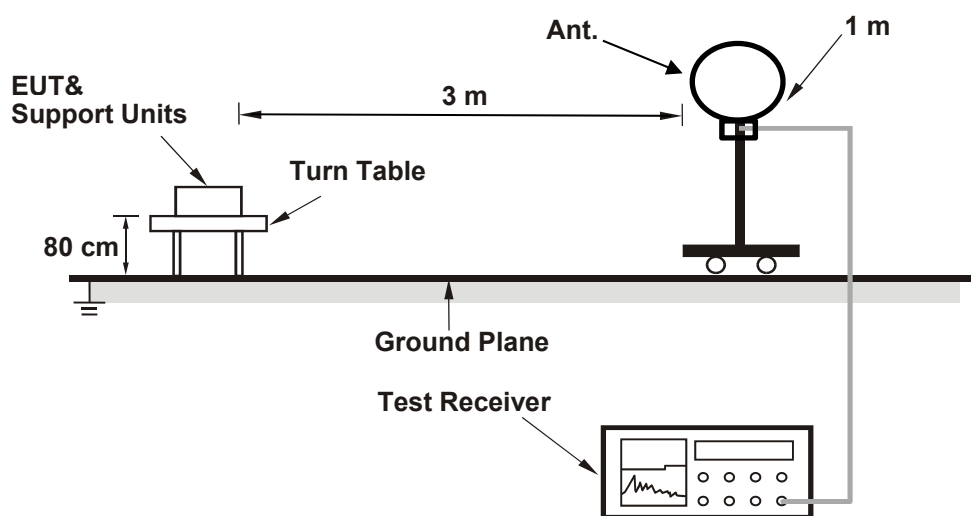
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

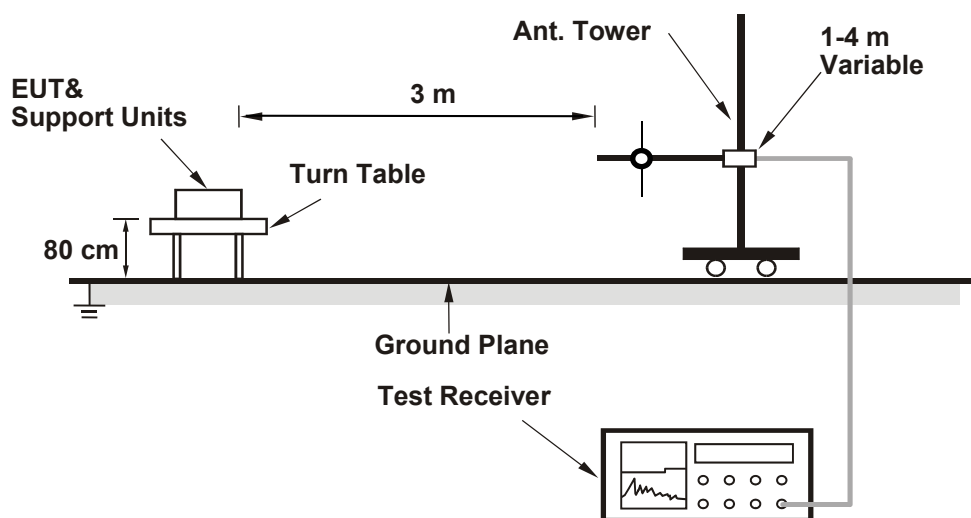
6.8 Unwanted Emissions below 1 GHz

6.8.1 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).

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

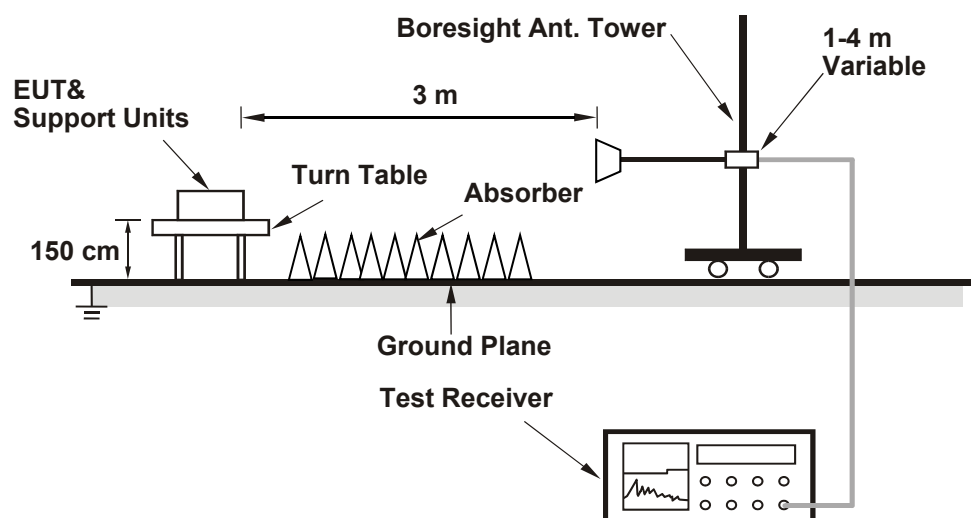
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 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 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.76	18.77
60	5300	20.64	22.81
64	5320	22.79	23.13
100	5500	26.28	24.92
116	5580	18.76	19.12
140	5700	24.60	27.35
144 (U-NII-2C)	5720	14.47	14.37
144 (U-NII-3)	5720	6.14	4.31

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	18.76	23.73 < 24
60	5300	20.64	24.14 > 24
64	5320	22.79	24.57 > 24
100	5500	24.92	24.96 > 24
116	5580	18.76	23.73 < 24
140	5700	24.60	24.90 > 24
144 (U-NII-2C)	5720	14.37	22.57 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.04	20.06
60	5300	20.22	20.19
64	5320	20.18	20.22
100	5500	20.14	20.21
116	5580	20.10	20.16
140	5700	20.09	20.18
144 (U-NII-2C)	5720	15.06	15.03
144 (U-NII-3)	5720	5.07	5.06

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.04	24.01 > 24
60	5300	20.19	24.05 > 24
64	5320	20.18	24.04 > 24
100	5500	20.14	24.04 > 24
116	5580	20.10	24.03 > 24
140	5700	20.09	24.02 > 24
144 (U-NII-2C)	5720	15.03	22.76 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	39.94	40.00
62	5310	45.49	52.74
102	5510	39.86	45.47
110	5550	40.29	39.91
134	5670	45.47	45.20
142 (U-NII-2C)	5710	34.93	34.97
142 (U-NII-3)	5710	5.07	4.95

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	39.94	27.01 > 24
62	5310	45.49	27.57 > 24
102	5510	39.86	27.00 > 24
110	5550	39.91	27.01 > 24
134	5670	45.20	27.55 > 24
142 (U-NII-2C)	5710	34.93	26.43 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	97.93	100.13
106	5530	95.50	84.83
122	5610	81.36	81.20
138 (U-NII-2C)	5690	78.01	75.69
138 (U-NII-3)	5690	6.22	5.71

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	97.93	30.90 > 24
106	5530	84.83	30.28 > 24
122	5610	81.20	30.09 > 24
138 (U-NII-2C)	5690	75.69	29.79 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

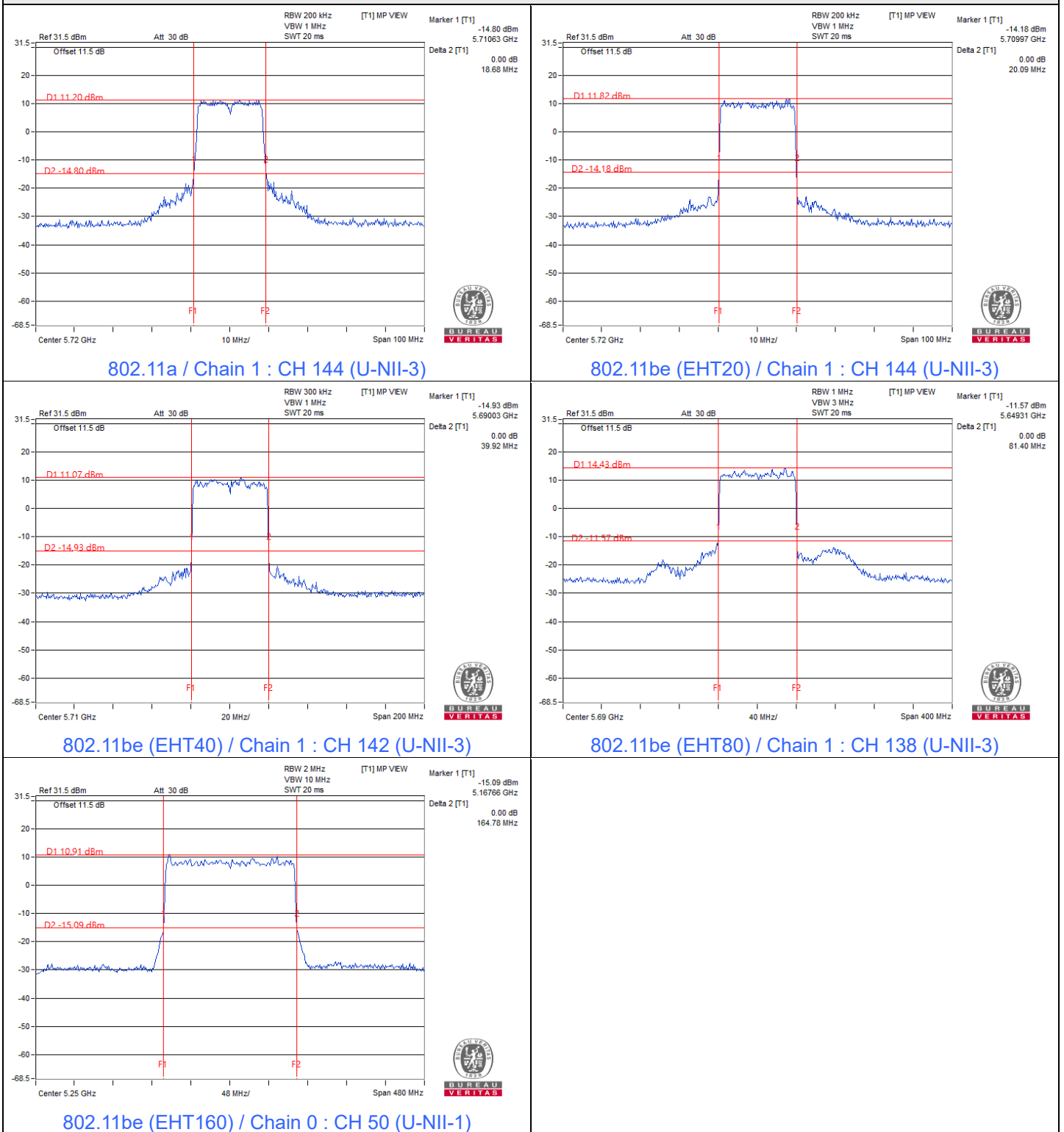
802.11be (EHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.34	82.61
50 (U-NII-2A)	5250	82.44	82.79
114	5570	164.74	165.08

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.44	30.16 > 24
114	5570	164.74	33.16 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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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				
52	5260	19.43	19.38	174.396	22.42	23.73	Pass
60	5300	19.40	19.34	172.998	22.38	24	Pass
64	5320	19.41	19.36	173.595	22.40	24	Pass
100	5500	19.93	19.26	182.735	22.62	24	Pass
116	5580	19.88	19.58	188.057	22.74	23.73	Pass
140	5700	19.74	19.44	182.091	22.60	24	Pass
*144 (U-NII-2C)	5720	18.96	18.99	157.955	21.99	22.57	Pass
*144 (U-NII-3)	5720	12.93	12.87	38.998	15.91	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.76 dBi < 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				
52	5260	19.37	19.36	172.795	22.38	24	Pass
60	5300	19.39	19.27	171.424	22.34	24	Pass
64	5320	19.40	19.28	171.819	22.35	24	Pass
100	5500	20.25	19.37	192.422	22.84	24	Pass
116	5580	20.10	19.81	198.049	22.97	24	Pass
140	5700	19.92	19.45	186.280	22.70	24	Pass
*144 (U-NII-2C)	5720	18.05	18.07	127.947	21.07	22.76	Pass
*144 (U-NII-3)	5720	13.01	13.09	40.369	16.06	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.76 dBi < 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				
54	5270	20.98	20.91	248.625	23.96	24	Pass
62	5310	18.31	18.10	132.330	21.22	24	Pass
102	5510	21.15	20.19	234.789	23.71	24	Pass
110	5550	21.20	20.25	237.751	23.76	24	Pass
134	5670	21.10	20.60	243.640	23.87	24	Pass
*142 (U-NII-2C)	5710	19.95	19.74	193.044	22.86	24	Pass
*142 (U-NII-3)	5710	10.85	10.63	23.723	13.75	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.76 dBi < 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				
58	5290	17.96	17.90	124.177	20.94	24	Pass
106	5530	21.21	20.30	239.281	23.79	24	Pass
122	5610	21.17	20.53	243.898	23.87	24	Pass
*138 (U-NII-2C)	5690	20.21	20.34	213.098	23.29	24	Pass
*138 (U-NII-3)	5690	7.95	7.89	12.389	10.93	30	Pass

Notes:

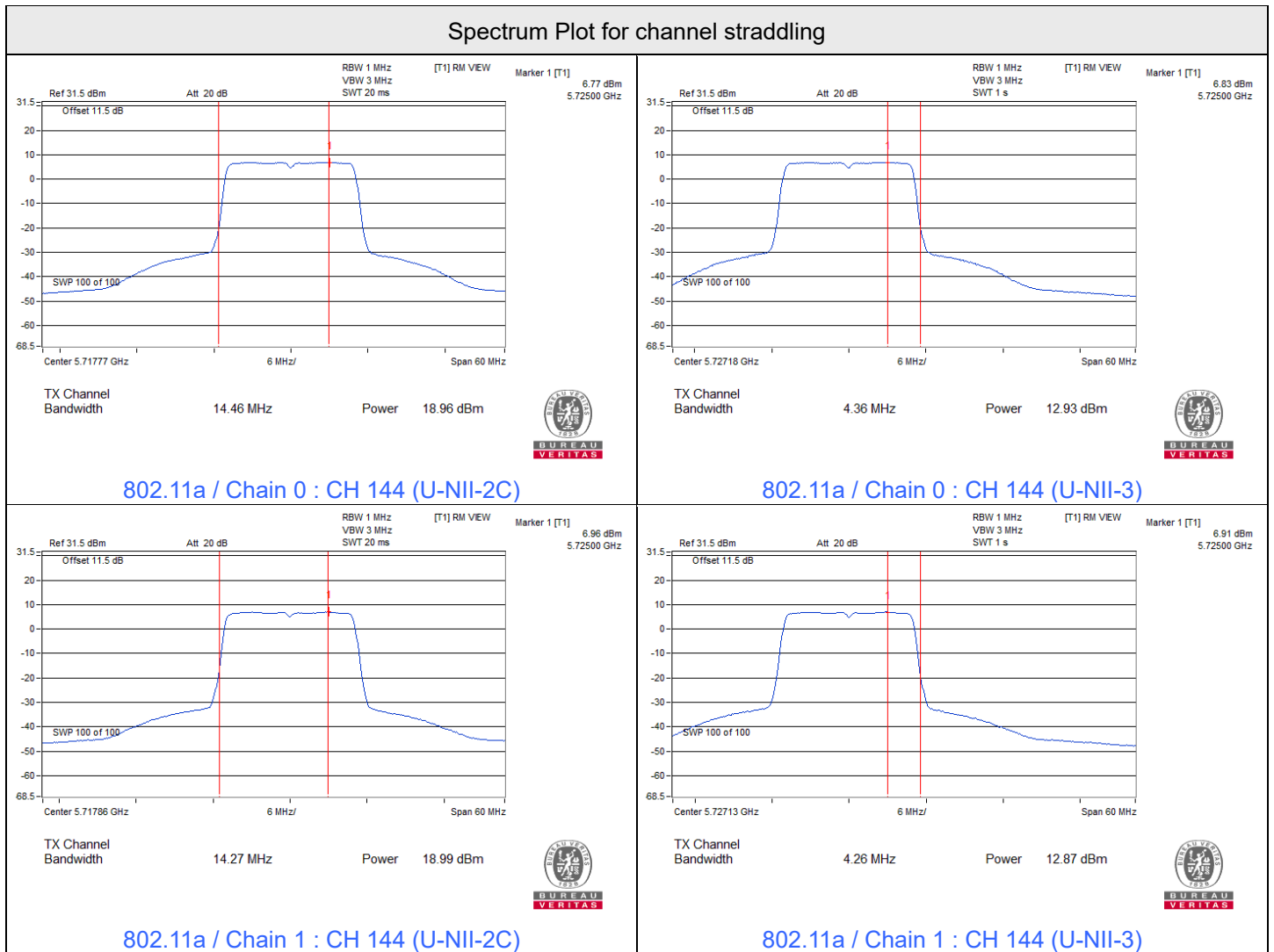
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.76 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT160)

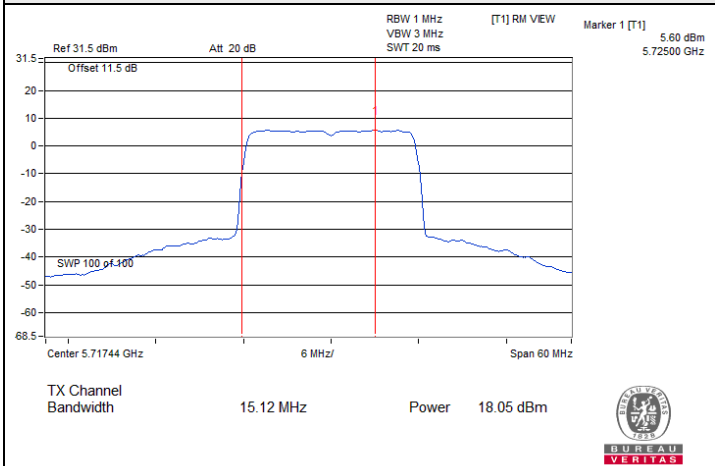
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	13.51	13.77	46.262	16.65	30	Pass
*50 (U-NII-2A)	5250	13.37	13.45	43.858	16.42	24	Pass
114	5570	18.03	17.13	115.175	20.61	24	Pass

Notes:

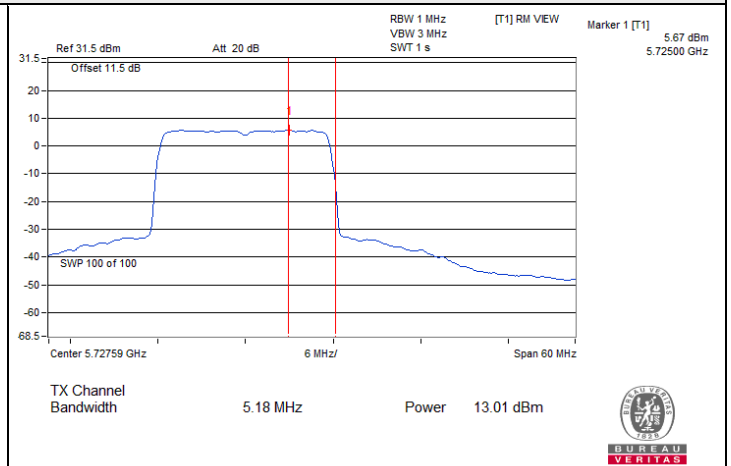
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.45 dBi < 6 dBi, so the output power limit shall not be reduced.



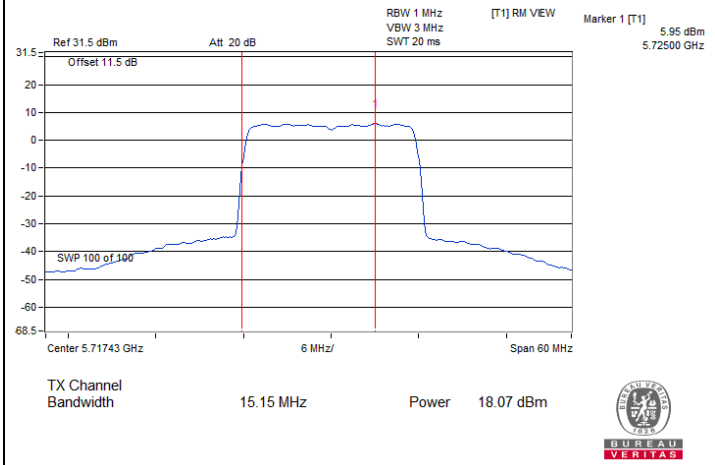
Spectrum Plot for channel straddling



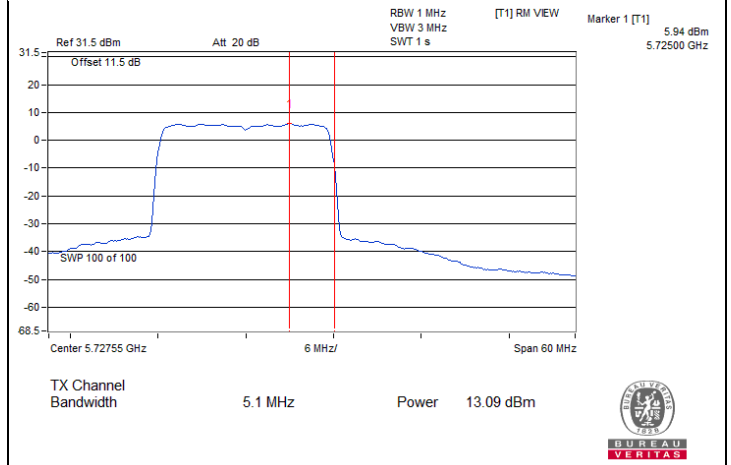
802.11be (EHT20) / Chain 0 : CH 144 (U-NII-2C)



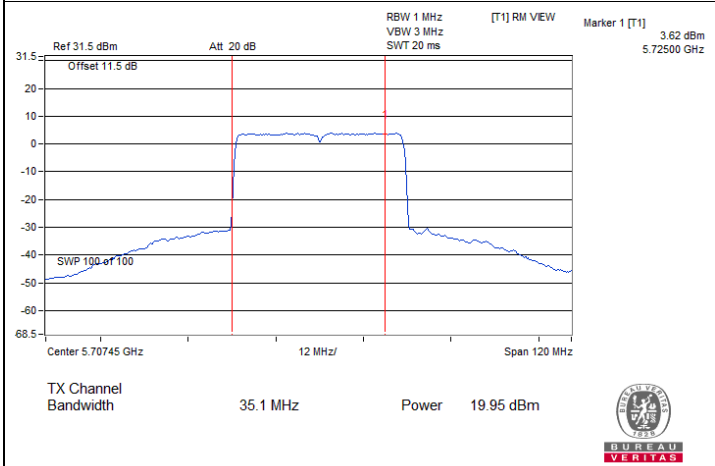
802.11be (EHT20) / Chain 0 : CH 144 (U-NII-3)



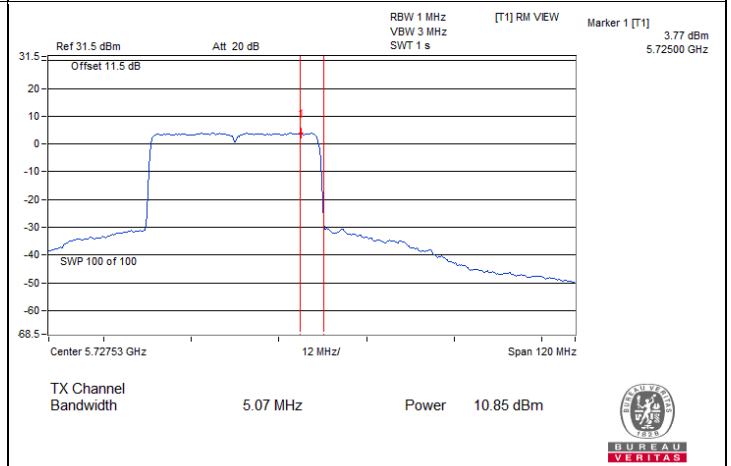
802.11be (EHT20) / Chain 1 : CH 144 (U-NII-2C)



802.11be (EHT20) / Chain 1 : CH 144 (U-NII-3)

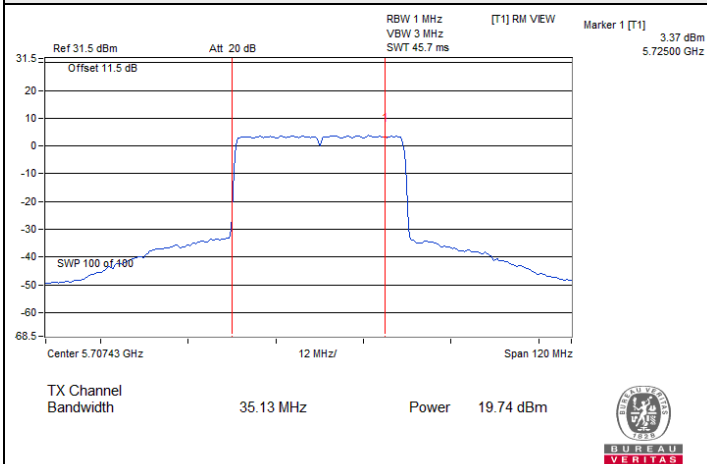


802.11be (EHT40) / Chain 0 : CH 142 (U-NII-2C)

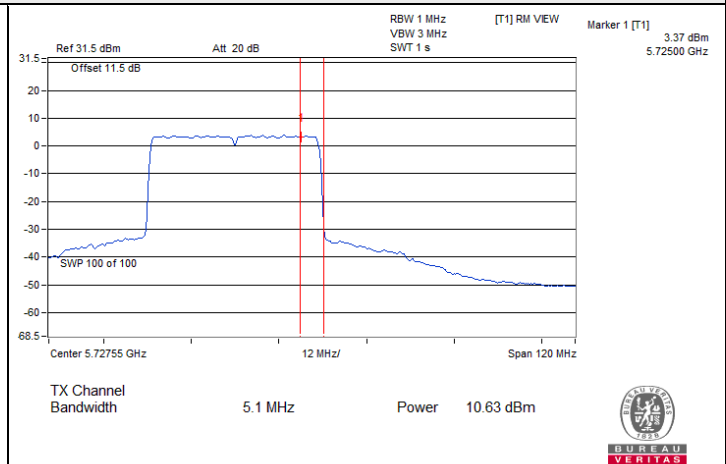


802.11be (EHT40) / Chain 0 : CH 142 (U-NII-3)

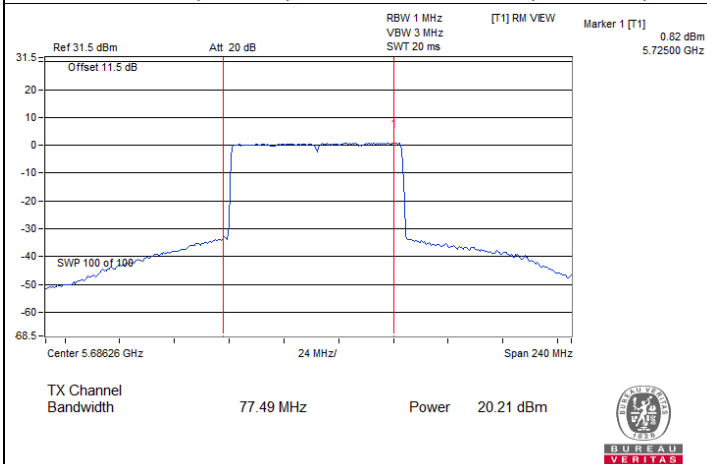
Spectrum Plot for channel straddling



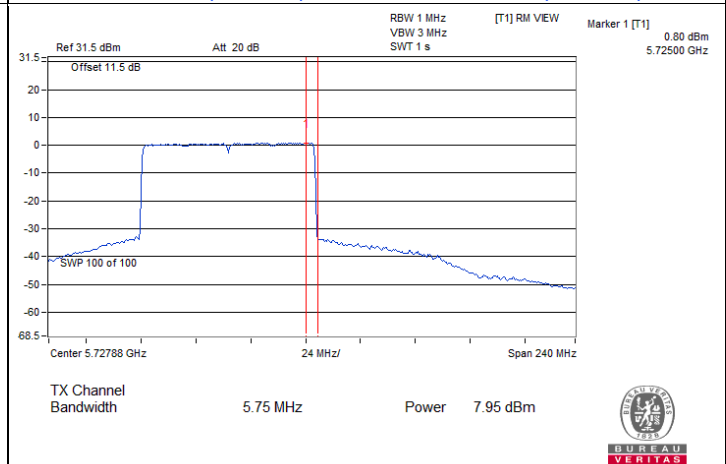
802.11be (EHT40) / Chain 1 : CH 142 (U-NII-2C)



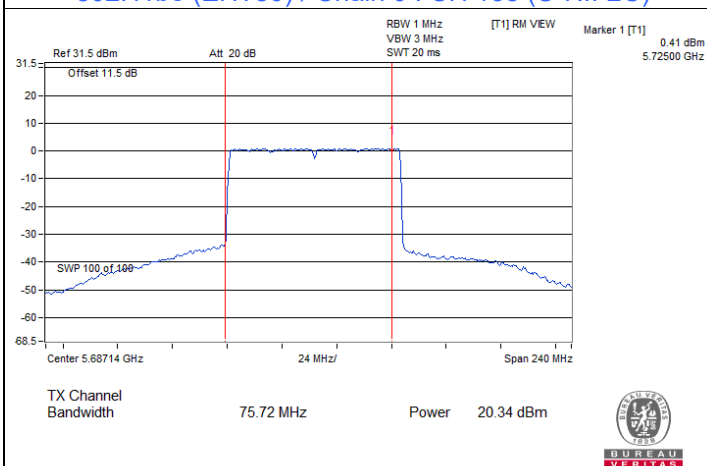
802.11be (EHT40) / Chain 1 : CH 142 (U-NII-3)



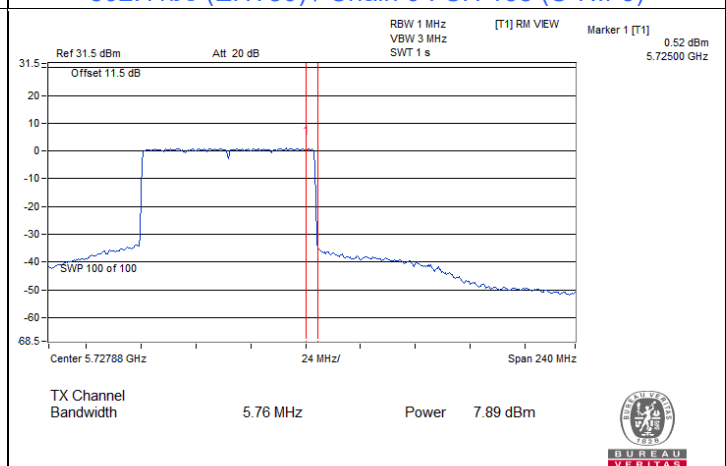
802.11be (EHT80) / Chain 0 : CH 138 (U-NII-2C)



802.11be (EHT80) / Chain 0 : CH 138 (U-NII-3)



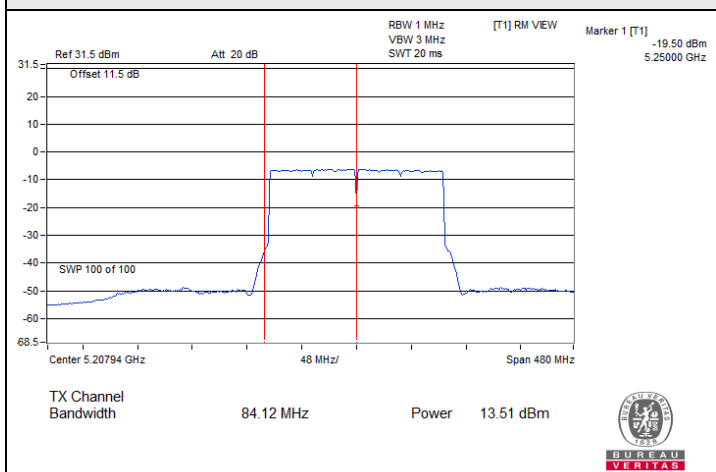
802.11be (EHT80) / Chain 1 : CH 138 (U-NII-2C)



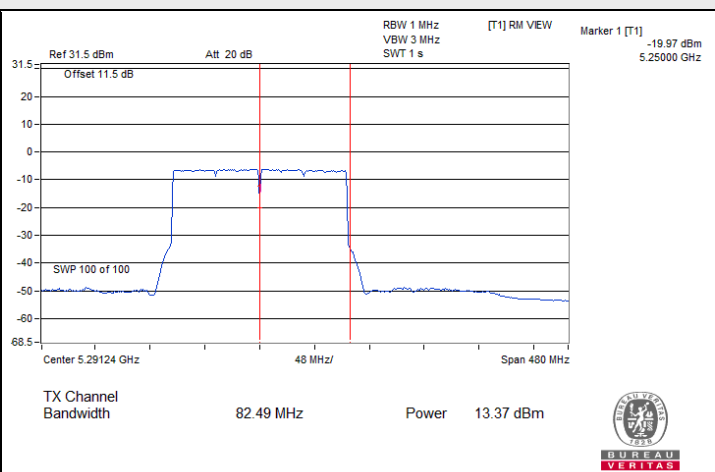
802.11be (EHT80) / Chain 1 : CH 138 (U-NII-3)



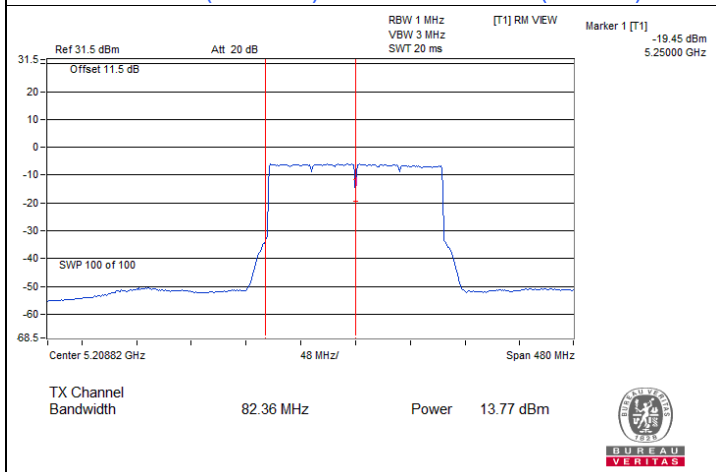
Spectrum Plot for channel straddling



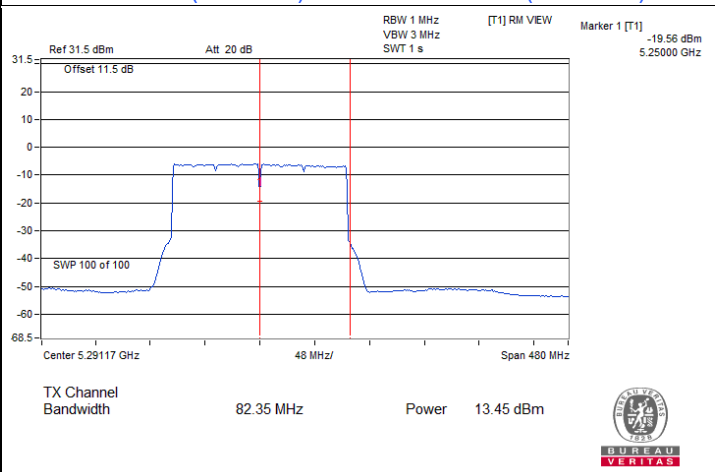
802.11be (EHT160) / Chain 0 : CH 50 (U-NII-1)



802.11be (EHT160) / Chain 0 : CH 50 (U-NII-2A)



802.11be (EHT160) / Chain 1 : CH 50 (U-NII-1)



802.11be (EHT160) / Chain 1 : CH 50 (U-NII-2A)

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
52	5260	6.38	6.29	9.35	9.62	Pass
60	5300	6.29	6.25	9.28	9.62	Pass
64	5320	6.37	6.13	9.26	9.62	Pass
100	5500	6.73	6.16	9.46	9.79	Pass
116	5580	6.78	6.40	9.60	9.79	Pass
140	5700	6.57	6.33	9.46	9.79	Pass
144 (U-NII-2C)	5720	6.73	6.37	9.56	9.79	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-2A, the directional gain is 7.38 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.38-6) = 9.62$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.21 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.21-6) = 9.79$ dBm/MHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
52	5260	6.31	6.18	9.26	9.62	Pass
60	5300	6.39	6.09	9.25	9.62	Pass
64	5320	6.47	6.10	9.30	9.62	Pass
100	5500	7.17	6.21	9.73	9.79	Pass
116	5580	6.73	6.68	9.72	9.79	Pass
140	5700	6.57	6.44	9.52	9.79	Pass
144 (U-NII-2C)	5720	6.86	6.35	9.62	9.79	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-2A, the directional gain is 7.38 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.38-6) = 9.62$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.21 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.21-6) = 9.79$ dBm/MHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
54	5270	4.80	4.82	7.82	9.62	Pass
62	5310	2.28	2.02	5.16	9.62	Pass
102	5510	5.05	4.23	7.67	9.79	Pass
110	5550	5.19	4.03	7.66	9.79	Pass
134	5670	5.05	4.66	7.87	9.79	Pass
142 (U-NII-2C)	5710	4.64	4.39	7.53	9.79	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-2A, the directional gain is 7.38 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.38-6) = 9.62$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.21 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.21-6) = 9.79$ dBm/MHz.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
58	5290	-1.10	-1.07	1.93	9.62	Pass
106	5530	2.13	1.13	4.67	9.79	Pass
122	5610	1.86	1.53	4.71	9.79	Pass
138 (U-NII-2C)	5690	1.85	1.08	4.49	9.79	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-2A, the directional gain is 7.38 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.38-6) = 9.62$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.21 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.21-6) = 9.79$ dBm/MHz.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-4.92	-5.40	-2.14	15.62	Pass
50 (U-NII-2A)	5250	-4.84	-5.29	-2.05	9.62	Pass
114	5570	-3.99	-4.82	-1.37	9.79	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 7.38 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.38-6) = 15.62$ dBm/MHz.
- For U-NII-2A, the directional gain is 7.38 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.38-6) = 9.62$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.21 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.21-6) = 9.79$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-0.25	-1.08	2.37	4.59	28.51	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.49 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.49-6) = 28.51$ dBm/500kHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-0.15	-0.14	2.87	5.09	28.51	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.49 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.49-6) = 28.51$ dBm/500kHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-3.33	-3.88	-0.59	1.63	28.51	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.49 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.49-6) = 28.51$ dBm/500kHz.

802.11be (EHT80)

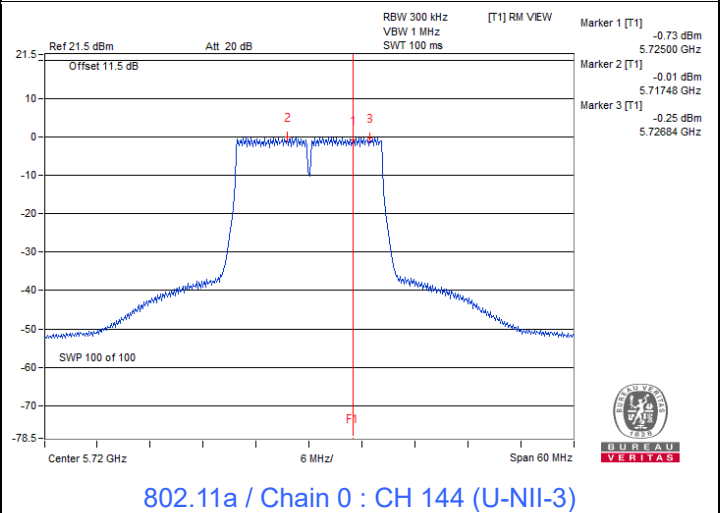
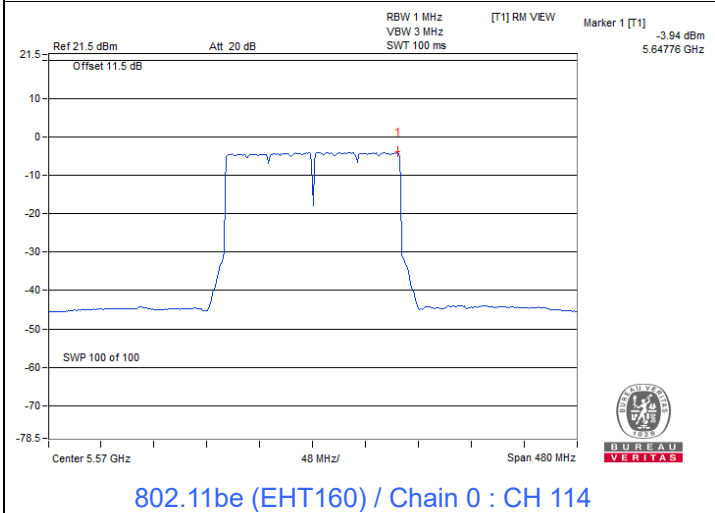
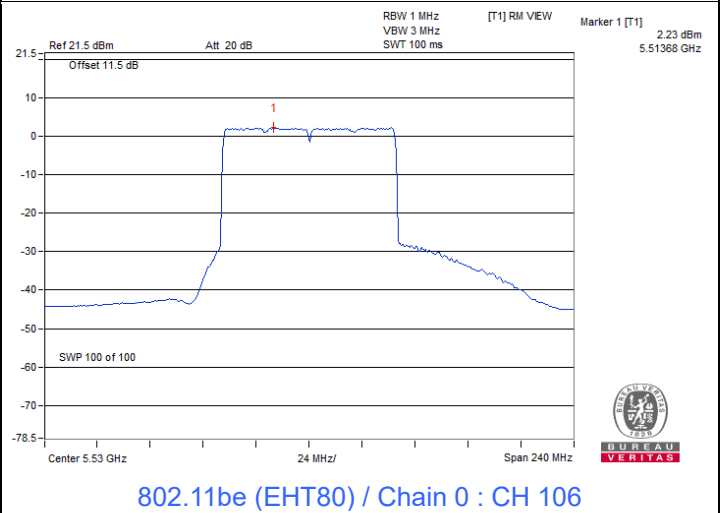
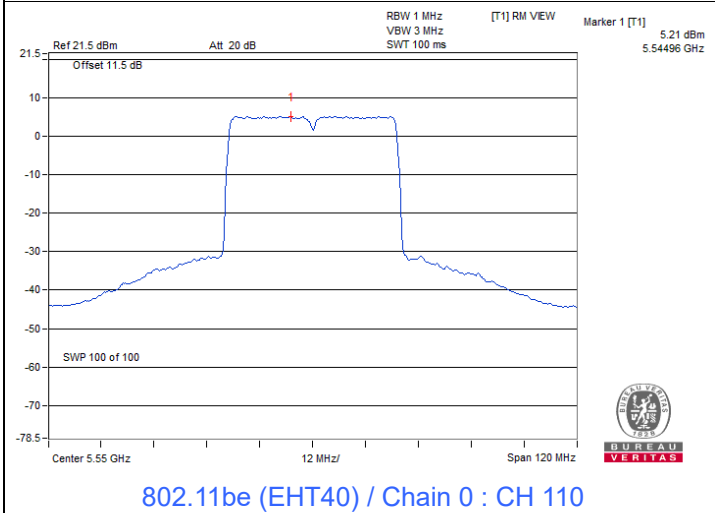
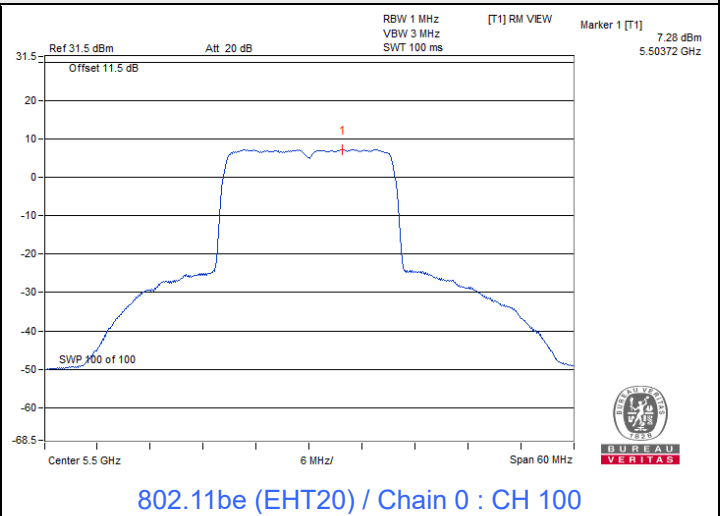
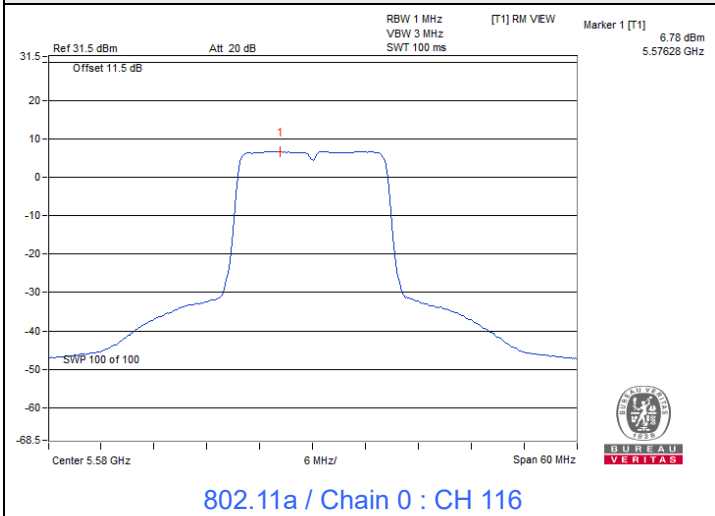
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-7.12	-7.16	-4.13	-1.91	28.51	Pass

Notes:

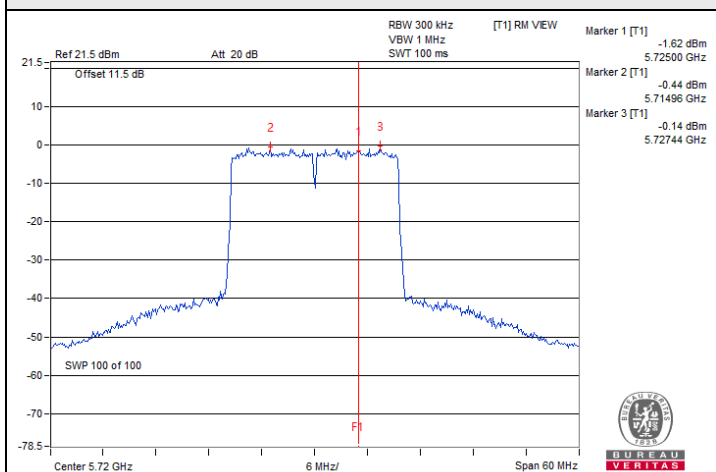
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.49 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.49-6) = 28.51$ dBm/500kHz.



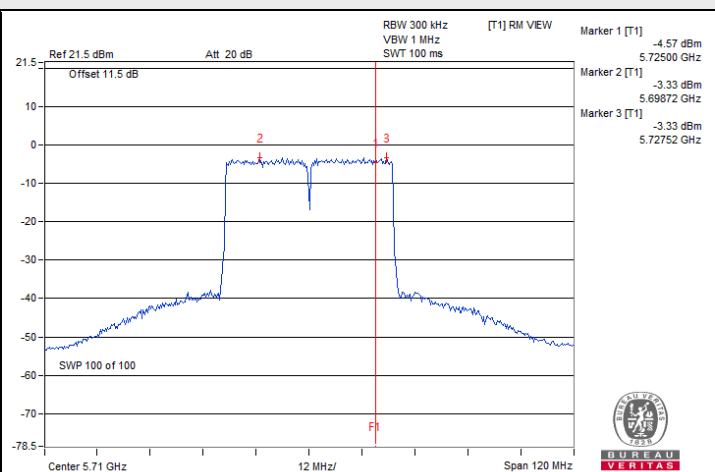
Spectrum Plot of Maximum Value



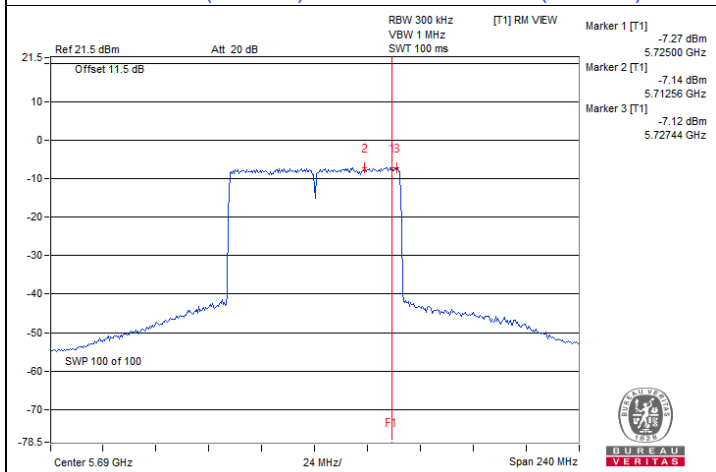
Spectrum Plot of Maximum Value



802.11be (EHT20) / Chain 1 : CH 144 (U-NII-3)



802.11be (EHT40) / Chain 0 : CH 142 (U-NII-3)



802.11be (EHT80) / Chain 0 : CH 138 (U-NII-3)

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.18	3.19	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.40	4.49	0.5	Pass

802.11be (EHT40)

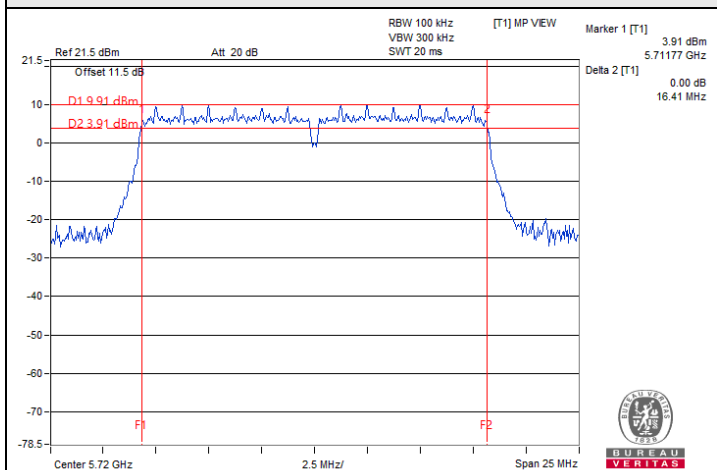
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	4.12	3.89	0.5	Pass

802.11be (EHT80)

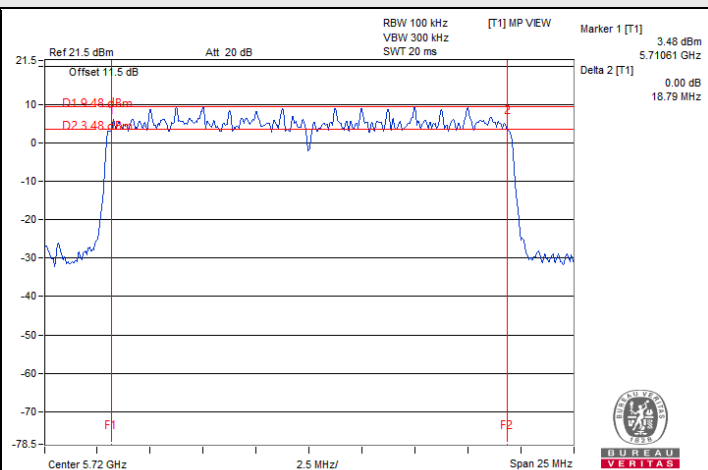
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	4.12	4.04	0.5	Pass



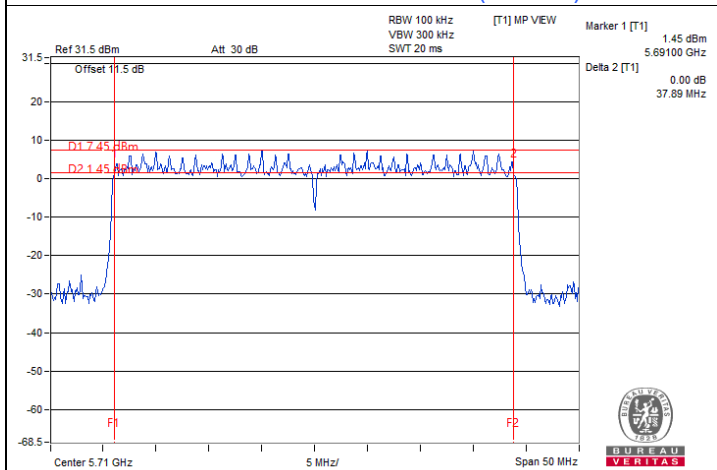
Spectrum Plot of Minimum Value



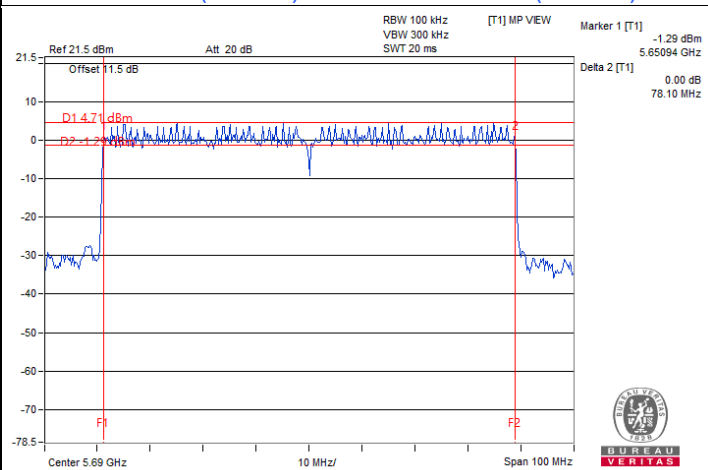
802.11a / Chain 0 : CH 144 (U-NII-3)



802.11be (EHT20) / Chain 0 : CH 144 (U-NII-3)



802.11be (EHT40) / Chain 1 : CH 142 (U-NII-3)



802.11be (EHT80) / Chain 1 : CH 138 (U-NII-3)

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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.44	16.44
60	5300	16.68	16.56
64	5320	16.68	16.56
100	5500	16.68	16.56
116	5580	16.44	16.44
140	5700	16.68	16.56
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.84	18.84
60	5300	19.08	19.08
64	5320	19.08	19.08
100	5500	19.08	19.08
116	5580	18.96	18.96
140	5700	18.96	19.08
144 (U-NII-2C)	5720	14.48	14.48
144 (U-NII-3)	5720	4.48	4.48

802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	37.92	38.16
62	5310	38.40	38.40
102	5510	38.40	38.40
110	5550	38.16	38.40
134	5670	38.40	38.16
142 (U-NII-2C)	5710	34.20	34.20
142 (U-NII-3)	5710	4.20	3.96

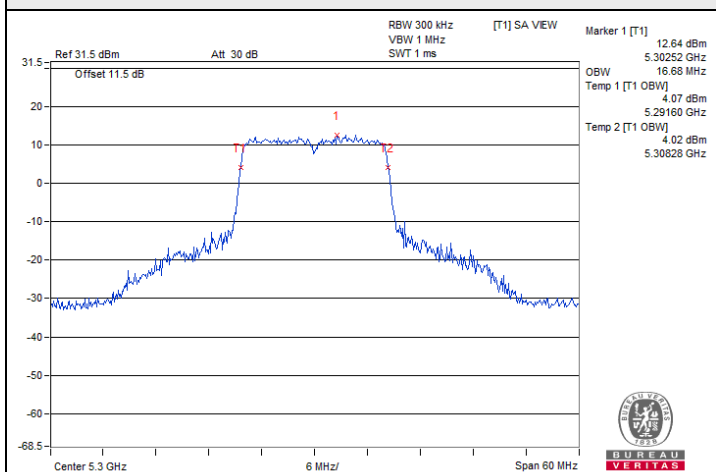
802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	77.76	77.76
106	5530	77.76	77.76
122	5610	77.76	77.76
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.88	3.88

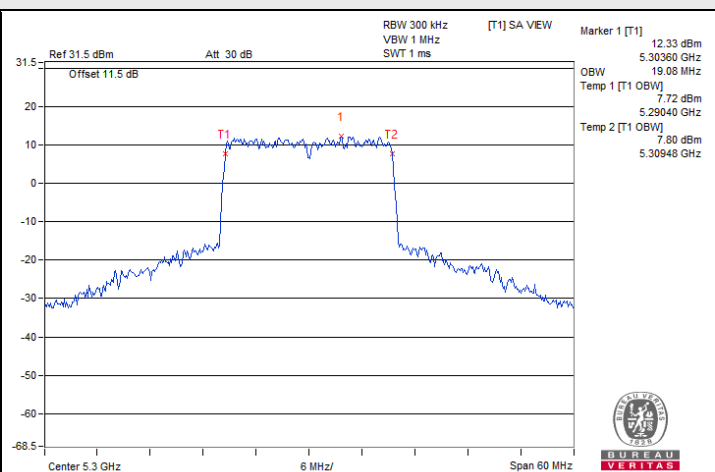
802.11be (EHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	78.72	79.68
50 (U-NII-2A)	5250	78.72	77.76
114	5570	157.44	157.44

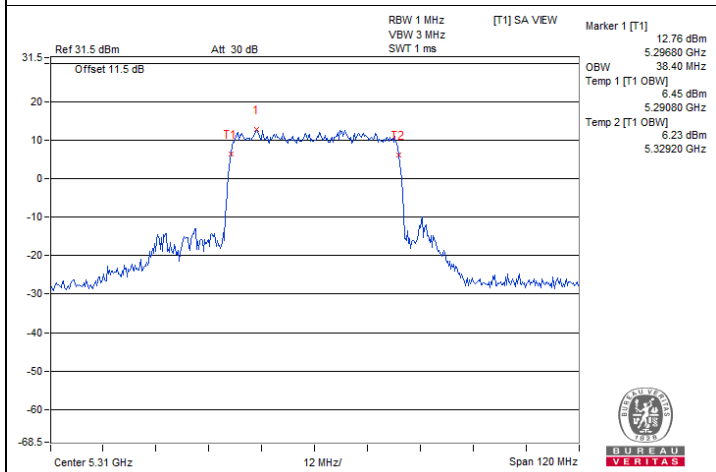
Spectrum Plot of Maximum Value



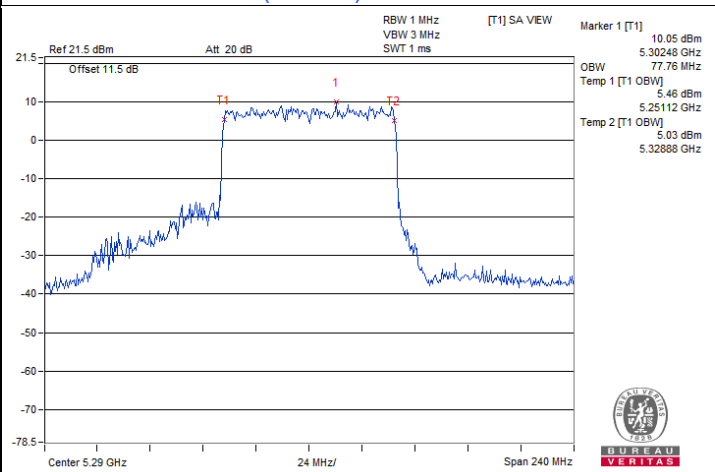
802.11a / Chain 0 : CH 60



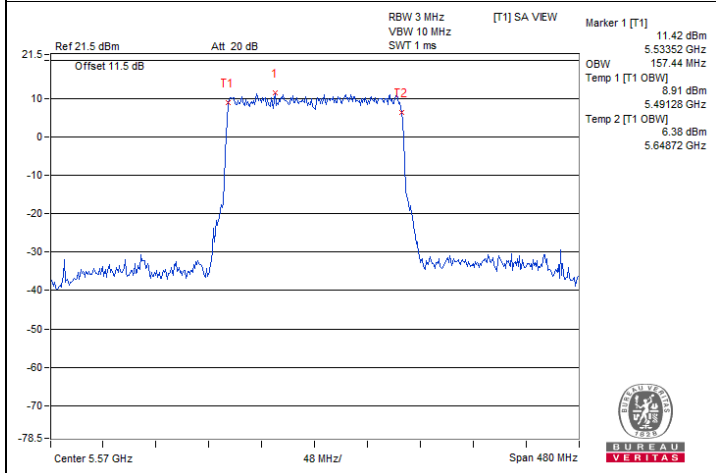
802.11be (EHT20) / Chain 0 : CH 60



802.11be (EHT40) / Chain 0 : CH 62



802.11be (EHT80) / Chain 0 : CH 58



802.11be (EHT160) / Chain 0 : CH 114

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Matthew Yang
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Frequency Stability Versus Temperature

Operating Frequency: 5260 MHz

Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
45	120	5260.0103	Pass	5260.0106	Pass	5260.0074	Pass	5260.0117	Pass
40	120	5260.0119	Pass	5260.0076	Pass	5260.0112	Pass	5260.0111	Pass
30	120	5260.0023	Pass	5260.005	Pass	5260.002	Pass	5260.0033	Pass
20	120	5260.0137	Pass	5260.0155	Pass	5260.0141	Pass	5260.0145	Pass
10	120	5259.9783	Pass	5259.9781	Pass	5259.9774	Pass	5259.974	Pass
0	120	5260.0233	Pass	5260.0255	Pass	5260.0228	Pass	5260.0234	Pass

Frequency Stability Versus Voltage

Operating Frequency: 5260 MHz

Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5260.0103	Pass	5260.0106	Pass	5260.0121	Pass	5260.009	Pass
	120	5260.0137	Pass	5260.0155	Pass	5260.0141	Pass	5260.0145	Pass
	102	5260.0103	Pass	5260.0113	Pass	5260.0108	Pass	5260.0085	Pass

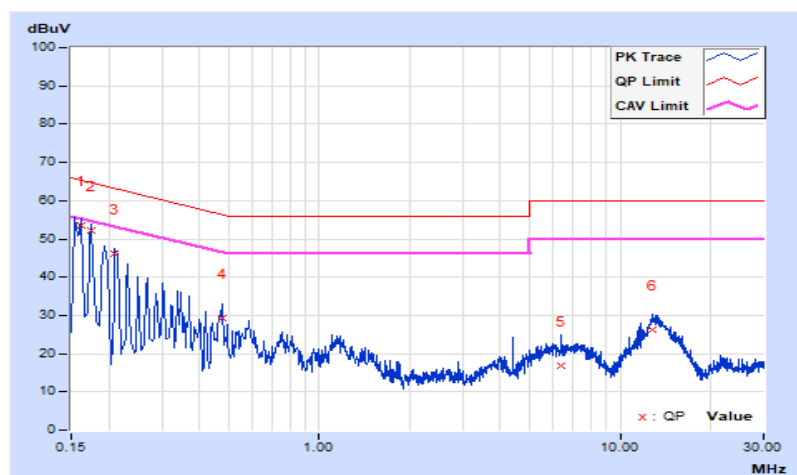
7.7 AC Power Conducted Emissions

RF Mode	802.11be (EHT40)	Channel	CH 54 : 5270 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, 67% RH
Tested By	Vincent Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16190	10.38	43.32	25.32	53.70	35.70	65.37	55.37	-11.67	-19.67
2	0.17400	10.38	41.76	23.71	52.14	34.09	64.77	54.77	-12.63	-20.68
3	0.21000	10.40	35.88	17.67	46.28	28.07	63.21	53.21	-16.93	-25.14
4	0.47800	10.50	18.91	9.80	29.41	20.30	56.37	46.37	-26.96	-26.07
5	6.37000	10.69	6.29	1.15	16.98	11.84	60.00	50.00	-43.02	-38.16
6	12.84600	10.79	15.40	10.08	26.19	20.87	60.00	50.00	-33.81	-29.13

Remarks:

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

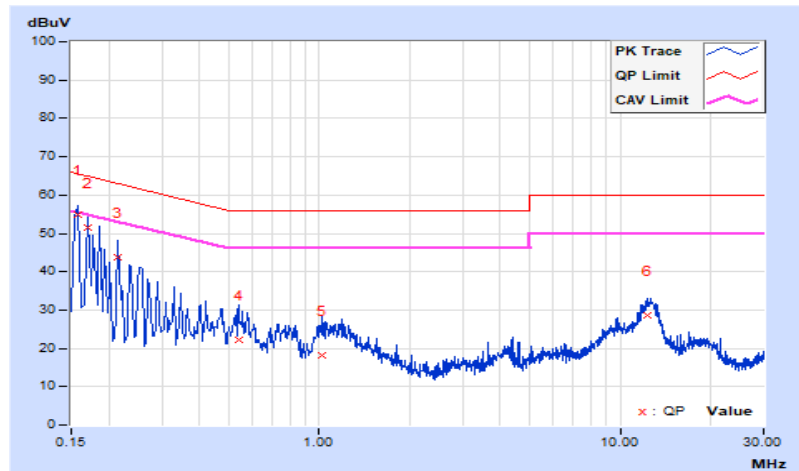


RF Mode	802.11be (EHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Vincent Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	10.41	44.49	24.68	54.90	35.09	65.57	55.57	-10.67	-20.48
2	0.17000	10.42	40.93	23.50	51.35	33.92	64.96	54.96	-13.61	-21.04
3	0.21400	10.45	33.47	16.32	43.92	26.77	63.05	53.05	-19.13	-26.28
4	0.53800	10.54	11.75	3.72	22.29	14.26	56.00	46.00	-33.71	-31.74
5	1.02600	10.56	7.57	1.71	18.13	12.27	56.00	46.00	-37.87	-33.73
6	12.25800	10.92	17.67	12.76	28.59	23.68	60.00	50.00	-31.41	-26.32

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



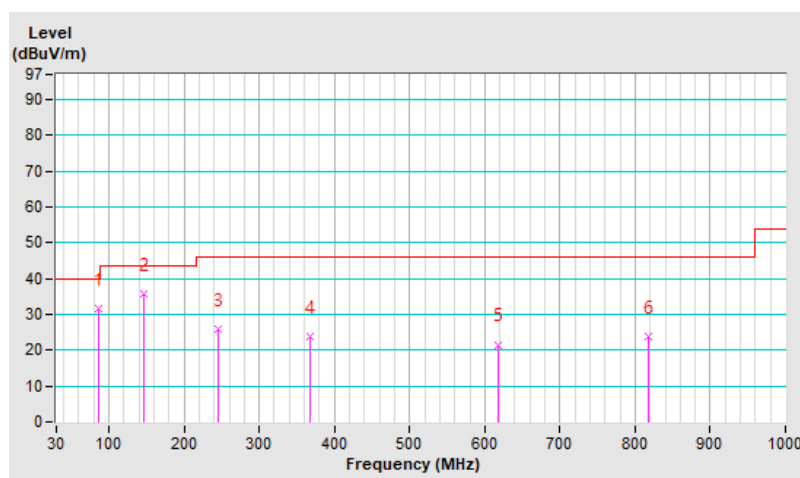
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11be (EHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	86.45	31.5 QP	40.0	-8.5	1.43 H	216	55.2	-23.7
2	146.75	35.7 QP	43.5	-7.8	1.69 H	117	53.3	-17.6
3	244.42	25.9 QP	46.0	-20.1	1.88 H	161	44.9	-19.0
4	366.75	23.7 QP	46.0	-22.3	1.97 H	226	39.2	-15.5
5	617.11	21.6 QP	46.0	-24.4	1.65 H	234	31.3	-9.7
6	817.42	23.7 QP	46.0	-22.3	1.68 H	213	30.6	-6.9

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.

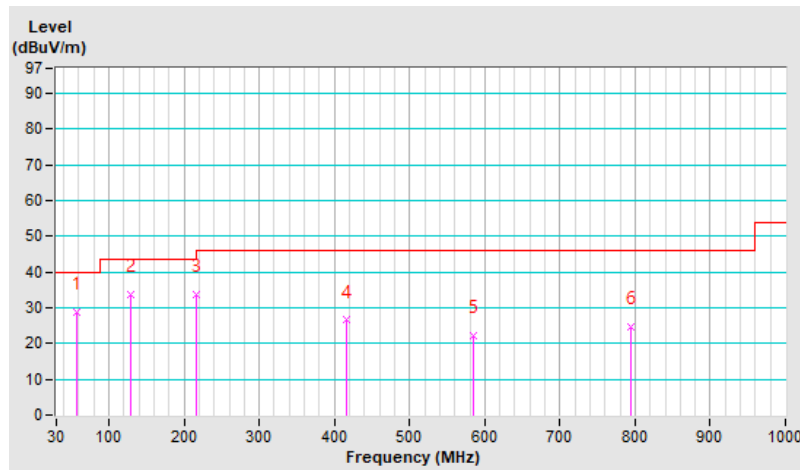


RF Mode	802.11be (EHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	57.56	28.8 QP	40.0	-11.2	1.65 V	224	47.1	-18.3
2	129.56	33.7 QP	43.5	-9.8	1.43 V	221	52.6	-18.9
3	216.54	33.6 QP	46.0	-12.4	1.95 V	224	54.5	-20.9
4	416.52	26.5 QP	46.0	-19.5	1.68 V	246	40.9	-14.4
5	584.45	22.1 QP	46.0	-23.9	1.76 V	224	32.6	-10.5
6	794.85	24.6 QP	46.0	-21.4	1.65 V	216	31.9	-7.3

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.



7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 52 : 5260 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	55.8 PK	74.0	-18.2	1.78 H	140	42.8	13.0
2	5150.00	45.7 AV	54.0	-8.3	1.78 H	140	32.7	13.0
3	*5260.00	112.0 PK			1.78 H	140	68.9	43.1
4	*5260.00	105.1 AV			1.78 H	140	62.0	43.1
5	#10520.00	56.1 PK	68.2	-12.1	1.14 H	184	37.7	18.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	2.00 V	244	44.7	13.0
2	5150.00	47.7 AV	54.0	-6.3	2.00 V	244	34.7	13.0
3	*5260.00	116.2 PK			2.00 V	244	73.1	43.1
4	*5260.00	109.1 AV			2.00 V	244	66.0	43.1
5	#10520.00	56.3 PK	68.2	-11.9	1.59 V	99	37.9	18.4

Remarks:

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



RF Mode	802.11a	Channel	CH 60 : 5300 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	*5300.00	112.0 PK			1.78 H	170	69.0	43.0
2	*5300.00	105.0 AV			1.78 H	170	62.0	43.0
3	10600.00	56.1 PK	74.0	-17.9	1.59 H	206	37.5	18.6
4	10600.00	46.6 AV	54.0	-7.4	1.59 H	206	28.0	18.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.5 PK			2.00 V	235	73.5	43.0
2	*5300.00	109.4 AV			2.00 V	235	66.4	43.0
3	10600.00	56.6 PK	74.0	-17.4	1.14 V	159	38.0	18.6
4	10600.00	47.0 AV	54.0	-7.0	1.14 V	159	28.4	18.6

Remarks:

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



RF Mode	802.11a	Channel	CH 64 : 5320 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	*5320.00	112.0 PK			1.78 H	157	68.8	43.2
2	*5320.00	105.1 AV			1.78 H	157	61.9	43.2
3	5350.00	58.2 PK	74.0	-15.8	1.78 H	157	44.8	13.4
4	5350.00	47.3 AV	54.0	-6.7	1.78 H	157	33.9	13.4
5	10640.00	55.9 PK	74.0	-18.1	1.69 H	336	37.3	18.6
6	10640.00	46.0 AV	54.0	-8.0	1.69 H	336	27.4	18.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.4 PK			2.00 V	243	73.2	43.2
2	*5320.00	109.1 AV			2.00 V	243	65.9	43.2
3	5350.00	65.6 PK	74.0	-8.4	2.02 V	244	52.2	13.4
4	5350.00	53.3 AV	54.0	-0.7	2.02 V	244	39.9	13.4
5	10640.00	56.4 PK	74.0	-17.6	1.15 V	198	37.8	18.6
6	10640.00	47.1 AV	54.0	-6.9	1.15 V	198	28.5	18.6

Remarks:

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



RF Mode	802.11a	Channel	CH 100 : 5500 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	25°C, 60% RH
Tested By	Karl 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	5460.00	56.3 PK	74.0	-17.7	1.78 H	226	42.9	13.4
2	5460.00	46.0 AV	54.0	-8.0	1.78 H	226	32.6	13.4
3	#5470.00	56.9 PK	68.2	-11.3	2.01 H	235	43.5	13.4
4	*5500.00	113.3 PK			1.82 H	226	70.0	43.3
5	*5500.00	105.1 AV			1.82 H	226	61.8	43.3
6	11000.00	54.9 PK	74.0	-19.1	2.31 H	71	35.9	19.0
7	11000.00	45.2 AV	54.0	-8.8	2.31 H	71	26.2	19.0

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	5460.00	58.0 PK	74.0	-16.0	2.14 V	241	44.6	13.4
2	5460.00	48.4 AV	54.0	-5.6	2.14 V	241	35.0	13.4
3	#5470.00	59.6 PK	68.2	-8.6	2.18 V	238	46.2	13.4
4	*5500.00	116.8 PK			2.18 V	235	73.5	43.3
5	*5500.00	108.8 AV			2.18 V	235	65.5	43.3
6	11000.00	55.5 PK	74.0	-18.5	1.14 V	217	36.5	19.0
7	11000.00	45.8 AV	54.0	-8.2	1.14 V	217	26.8	19.0

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 116 : 5580 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	25°C, 60% RH
Tested By	Karl 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	*5580.00	113.5 PK			1.84 H	226	70.2	43.3
2	*5580.00	105.4 AV			1.84 H	226	62.1	43.3
3	11160.00	55.3 PK	74.0	-18.7	2.71 H	151	36.2	19.1
4	11160.00	45.6 AV	54.0	-8.4	2.71 H	151	26.5	19.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.0 PK			2.13 V	229	73.7	43.3
2	*5580.00	109.0 AV			2.13 V	229	65.7	43.3
3	11160.00	55.8 PK	74.0	-18.2	2.10 V	181	36.7	19.1
4	11160.00	46.2 AV	54.0	-7.8	2.10 V	181	27.1	19.1

Remarks:

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



RF Mode	802.11a	Channel	CH 140 : 5700 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	25°C, 60% RH
Tested By	Karl 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	*5700.00	113.1 PK			1.64 H	223	69.6	43.5
2	*5700.00	105.3 AV			1.64 H	223	61.8	43.5
3	#5725.00	61.0 PK	68.2	-7.2	1.61 H	231	47.5	13.5
4	11400.00	55.3 PK	74.0	-18.7	1.84 H	128	35.8	19.5
5	11400.00	45.7 AV	54.0	-8.3	1.84 H	128	26.2	19.5

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	*5700.00	116.7 PK			2.09 V	244	73.2	43.5
2	*5700.00	108.7 AV			2.09 V	244	65.2	43.5
3	#5725.00	61.4 PK	68.2	-6.8	2.07 V	239	47.9	13.5
4	11400.00	56.1 PK	74.0	-17.9	1.15 V	345	36.6	19.5
5	11400.00	46.0 AV	54.0	-8.0	1.15 V	345	26.5	19.5

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 144 : 5720 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	25°C, 60% RH
Tested By	Karl 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	5460.00	56.5 PK	74.0	-17.5	1.77 H	205	43.1	13.4
2	5460.00	45.8 AV	54.0	-8.2	1.77 H	205	32.4	13.4
3	#5470.00	57.3 PK	68.2	-10.9	1.77 H	205	43.9	13.4
4	*5720.00	112.9 PK			1.77 H	205	69.3	43.6
5	*5720.00	104.8 AV			1.77 H	205	61.2	43.6
6	11440.00	55.9 PK	74.0	-18.1	1.82 H	223	36.2	19.7
7	11440.00	46.2 AV	54.0	-7.8	1.82 H	223	26.5	19.7

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	5460.00	57.4 PK	74.0	-16.6	2.39 V	244	44.0	13.4
2	5460.00	47.0 AV	54.0	-7.0	2.39 V	244	33.6	13.4
3	#5470.00	57.1 PK	68.2	-11.1	2.39 V	250	43.7	13.4
4	*5720.00	116.5 PK			2.39 V	244	72.9	43.6
5	*5720.00	108.5 AV			2.39 V	244	64.9	43.6
6	11440.00	56.2 PK	74.0	-17.8	2.81 V	115	36.5	19.7
7	11440.00	46.4 AV	54.0	-7.6	2.81 V	115	26.7	19.7

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 52 : 5260 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	55.8 PK	74.0	-18.2	1.78 H	170	42.8	13.0
2	5150.00	45.7 AV	54.0	-8.3	1.78 H	170	32.7	13.0
3	*5260.00	111.6 PK			1.78 H	170	68.5	43.1
4	*5260.00	101.8 AV			1.78 H	170	58.7	43.1
5	#10520.00	55.9 PK	68.2	-12.3	1.54 H	200	37.5	18.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	2.00 V	235	43.3	13.0
2	5150.00	46.4 AV	54.0	-7.6	2.00 V	235	33.4	13.0
3	*5260.00	116.7 PK			2.00 V	235	73.6	43.1
4	*5260.00	106.9 AV			2.00 V	235	63.8	43.1
5	#10520.00	56.7 PK	68.2	-11.5	1.14 V	158	38.3	18.4

Remarks:

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



RF Mode	802.11be (EHT20)	Channel	CH 60 : 5300 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	*5300.00	112.0 PK			1.78 H	170	69.0	43.0
2	*5300.00	102.4 AV			1.78 H	170	59.4	43.0
3	10600.00	56.3 PK	74.0	-17.7	1.14 H	45	37.7	18.6
4	10600.00	46.4 AV	54.0	-7.6	1.14 H	45	27.8	18.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.6 PK			2.00 V	235	73.6	43.0
2	*5300.00	106.2 AV			2.00 V	235	63.2	43.0
3	10600.00	56.6 PK	74.0	-17.4	1.57 V	199	38.0	18.6
4	10600.00	46.8 AV	54.0	-7.2	1.57 V	199	28.2	18.6

Remarks:

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



RF Mode	802.11be (EHT20)	Channel	CH 64 : 5320 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	*5320.00	112.2 PK			1.78 H	138	69.0	43.2
2	*5320.00	102.3 AV			1.78 H	138	59.1	43.2
3	5350.00	58.6 PK	74.0	-15.4	1.78 H	138	45.2	13.4
4	5350.00	48.3 AV	54.0	-5.7	1.78 H	138	34.9	13.4
5	10640.00	56.1 PK	74.0	-17.9	1.58 H	8	37.5	18.6
6	10640.00	46.0 AV	54.0	-8.0	1.58 H	8	27.4	18.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.8 PK			2.00 V	240	73.6	43.2
2	*5320.00	106.8 AV			2.00 V	240	63.6	43.2
3	5350.00	66.1 PK	74.0	-7.9	2.27 V	242	52.7	13.4
4	5350.00	53.7 AV	54.0	-0.3	2.27 V	242	40.3	13.4
5	10640.00	56.7 PK	74.0	-17.3	1.69 V	356	38.1	18.6
6	10640.00	46.6 AV	54.0	-7.4	1.69 V	356	28.0	18.6

Remarks:

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



RF Mode	802.11be (EHT20)	Channel	CH 100 : 5500 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	25°C, 60% RH
Tested By	Karl 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	5460.00	55.8 PK	74.0	-18.2	1.79 H	226	42.4	13.4
2	5460.00	47.2 AV	54.0	-6.8	1.79 H	226	33.8	13.4
3	#5470.00	58.7 PK	68.2	-9.5	1.85 H	204	45.3	13.4
4	*5500.00	114.8 PK			1.82 H	226	71.5	43.3
5	*5500.00	104.8 AV			1.82 H	226	61.5	43.3
6	11000.00	55.4 PK	74.0	-18.6	1.31 H	275	36.4	19.0
7	11000.00	45.8 AV	54.0	-8.2	1.31 H	275	26.8	19.0

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	5460.00	59.1 PK	74.0	-14.9	2.09 V	262	45.7	13.4
2	5460.00	49.4 AV	54.0	-4.6	2.09 V	262	36.0	13.4
3	#5470.00	64.4 PK	68.2	-3.8	1.94 V	203	51.0	13.4
4	*5500.00	118.8 PK			2.18 V	235	75.5	43.3
5	*5500.00	107.9 AV			2.18 V	235	64.6	43.3
6	11000.00	55.7 PK	74.0	-18.3	1.50 V	226	36.7	19.0
7	11000.00	46.1 AV	54.0	-7.9	1.50 V	226	27.1	19.0

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)	Channel	CH 116 : 5580 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	25°C, 60% RH
Tested By	Karl 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	*5580.00	115.1 PK			1.84 H	226	71.8	43.3
2	*5580.00	105.0 AV			1.84 H	226	61.7	43.3
3	11160.00	56.2 PK	74.0	-17.8	1.57 H	153	37.1	19.1
4	11160.00	46.6 AV	54.0	-7.4	1.57 H	153	27.5	19.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.0 PK			2.13 V	229	75.7	43.3
2	*5580.00	108.1 AV			2.13 V	229	64.8	43.3
3	11160.00	55.7 PK	74.0	-18.3	1.46 V	73	36.6	19.1
4	11160.00	46.1 AV	54.0	-7.9	1.46 V	73	27.0	19.1

Remarks:

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



RF Mode	802.11be (EHT20)	Channel	CH 140 : 5700 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	25°C, 60% RH
Tested By	Karl 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	*5700.00	114.5 PK			1.64 H	223	71.0	43.5
2	*5700.00	104.1 AV			1.64 H	223	60.6	43.5
3	#5725.00	61.4 PK	68.2	-6.8	1.59 H	221	47.9	13.5
4	11400.00	55.8 PK	74.0	-18.2	1.24 H	310	36.3	19.5
5	11400.00	46.2 AV	54.0	-7.8	1.24 H	310	26.7	19.5

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	*5700.00	117.4 PK			2.09 V	244	73.9	43.5
2	*5700.00	107.9 AV			2.09 V	244	64.4	43.5
3	#5725.00	64.8 PK	68.2	-3.4	2.04 V	252	51.3	13.5
4	11400.00	55.3 PK	74.0	-18.7	1.58 V	271	35.8	19.5
5	11400.00	45.7 AV	54.0	-8.3	1.58 V	271	26.2	19.5

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 144 : 5720 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	25°C, 60% RH
Tested By	Karl 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	5460.00	56.0 PK	74.0	-18.0	1.77 H	205	42.6	13.4
2	5460.00	44.6 AV	54.0	-9.4	1.77 H	205	31.2	13.4
3	#5470.00	55.2 PK	68.2	-13.0	1.77 H	205	41.8	13.4
4	*5720.00	114.2 PK			1.77 H	205	70.6	43.6
5	*5720.00	104.1 AV			1.77 H	205	60.5	43.6
6	11440.00	55.4 PK	74.0	-18.6	1.68 H	122	35.7	19.7
7	11440.00	45.7 AV	54.0	-8.3	1.68 H	122	26.0	19.7

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	5460.00	57.4 PK	74.0	-16.6	2.39 V	244	44.0	13.4
2	5460.00	47.4 AV	54.0	-6.6	2.39 V	244	34.0	13.4
3	#5470.00	57.1 PK	68.2	-11.1	2.39 V	244	43.7	13.4
4	*5720.00	117.9 PK			2.39 V	244	74.3	43.6
5	*5720.00	107.8 AV			2.39 V	244	64.2	43.6
6	11440.00	55.4 PK	74.0	-18.6	1.99 V	105	35.7	19.7
7	11440.00	45.7 AV	54.0	-8.3	1.99 V	105	26.0	19.7

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 54 : 5270 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	25°C, 60% RH
Tested By	Karl 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	5150.00	58.2 PK	74.0	-15.8	1.54 H	170	45.2	13.0
2	5150.00	46.2 AV	54.0	-7.8	1.54 H	170	33.2	13.0
3	*5270.00	112.3 PK			1.75 H	170	69.3	43.0
4	*5270.00	102.0 AV			1.75 H	170	59.0	43.0
5	5350.00	57.5 PK	74.0	-16.5	2.04 H	174	44.1	13.4
6	5350.00	46.1 AV	54.0	-7.9	2.04 H	174	32.7	13.4
7	#10540.00	54.7 PK	68.2	-13.5	1.81 H	253	36.2	18.5

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	58.6 PK	74.0	-15.4	1.94 V	263	45.6	13.0
2	5150.00	48.7 AV	54.0	-5.3	1.94 V	263	35.7	13.0
3	*5270.00	116.9 PK			1.98 V	241	73.9	43.0
4	*5270.00	106.4 AV			1.98 V	241	63.4	43.0
5	5350.00	62.0 PK	74.0	-12.0	1.72 V	255	48.6	13.4
6	5350.00	51.3 AV	54.0	-2.7	1.72 V	255	37.9	13.4
7	#10540.00	54.6 PK	68.2	-13.6	1.66 V	191	36.1	18.5

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 62 : 5310 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	25°C, 60% RH
Tested By	Karl 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	5150.00	56.7 PK	74.0	-17.3	1.75 H	139	43.7	13.0
2	5150.00	45.4 AV	54.0	-8.6	1.75 H	139	32.4	13.0
3	*5310.00	109.8 PK			1.75 H	141	66.8	43.0
4	*5310.00	99.9 AV			1.75 H	141	56.9	43.0
5	5350.00	60.6 PK	74.0	-13.4	1.68 H	156	47.2	13.4
6	5350.00	50.1 AV	54.0	-3.9	1.68 H	156	36.7	13.4
7	10620.00	54.8 PK	74.0	-19.2	1.12 H	345	36.2	18.6
8	10620.00	45.2 AV	54.0	-8.8	1.12 H	345	26.6	18.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.96 V	237	42.1	13.0
2	5150.00	45.6 AV	54.0	-8.4	1.96 V	237	32.6	13.0
3	*5310.00	114.5 PK			2.18 V	242	71.5	43.0
4	*5310.00	104.2 AV			2.18 V	242	61.2	43.0
5	5350.00	63.6 PK	74.0	-10.4	2.21 V	219	50.2	13.4
6	5350.00	53.7 AV	54.0	-0.3	2.21 V	219	40.3	13.4
7	10620.00	55.7 PK	74.0	-18.3	2.36 V	204	37.1	18.6
8	10620.00	46.0 AV	54.0	-8.0	2.36 V	204	27.4	18.6

Remarks:

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



RF Mode	802.11be (EHT40)	Channel	CH 102 : 5510 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	25°C, 60% RH
Tested By	Karl 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	5460.00	59.0 PK	74.0	-15.0	1.74 H	222	45.6	13.4
2	5460.00	48.5 AV	54.0	-5.5	1.74 H	222	35.1	13.4
3	#5470.00	62.4 PK	68.2	-5.8	1.55 H	234	49.0	13.4
4	*5510.00	112.0 PK			1.82 H	226	68.7	43.3
5	*5510.00	101.7 AV			1.82 H	226	58.4	43.3
6	#5725.00	55.7 PK	68.2	-12.5	1.68 H	201	42.2	13.5
7	11020.00	54.7 PK	74.0	-19.3	2.14 H	85	35.8	18.9
8	11020.00	45.1 AV	54.0	-8.9	2.14 H	85	26.2	18.9

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	5460.00	63.7 PK	74.0	-10.3	2.16 V	245	50.3	13.4
2	5460.00	51.5 AV	54.0	-2.5	2.16 V	245	38.1	13.4
3	#5470.00	65.5 PK	68.2	-2.7	2.18 V	209	52.1	13.4
4	*5510.00	116.1 PK			2.18 V	236	72.8	43.3
5	*5510.00	105.3 AV			2.18 V	236	62.0	43.3
6	#5725.00	56.7 PK	68.2	-11.5	1.96 V	251	43.2	13.5
7	11020.00	55.1 PK	74.0	-18.9	2.52 V	189	36.2	18.9
8	11020.00	45.4 AV	54.0	-8.6	2.52 V	189	26.5	18.9

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 110 : 5550 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	25°C, 60% RH
Tested By	Karl 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	*5550.00	112.1 PK			1.84 H	226	68.9	43.2
2	*5550.00	101.7 AV			1.84 H	226	58.5	43.2
3	11100.00	55.2 PK	74.0	-18.8	2.17 H	241	36.1	19.1
4	11100.00	45.5 AV	54.0	-8.5	2.17 H	241	26.4	19.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	116.3 PK			2.13 V	229	73.1	43.2
2	*5550.00	105.5 AV			2.13 V	229	62.3	43.2
3	11100.00	55.8 PK	74.0	-18.2	1.21 V	253	36.7	19.1
4	11100.00	46.1 AV	54.0	-7.9	1.21 V	253	27.0	19.1

Remarks:

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



RF Mode	802.11be (EHT40)	Channel	CH 134 : 5670 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	25°C, 60% RH
Tested By	Karl 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	5460.00	55.6 PK	74.0	-18.4	1.54 H	222	42.2	13.4
2	5460.00	44.8 AV	54.0	-9.2	1.54 H	222	31.4	13.4
3	#5470.00	54.6 PK	68.2	-13.6	1.87 H	216	41.2	13.4
4	*5670.00	112.9 PK			1.65 H	223	69.5	43.4
5	*5670.00	102.6 AV			1.65 H	223	59.2	43.4
6	#5725.00	62.7 PK	68.2	-5.5	1.55 H	240	49.2	13.5
7	11340.00	54.9 PK	74.0	-19.1	2.56 H	323	35.7	19.2
8	11340.00	45.3 AV	54.0	-8.7	2.56 H	323	26.1	19.2

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	5460.00	57.3 PK	74.0	-16.7	2.12 V	253	43.9	13.4
2	5460.00	46.4 AV	54.0	-7.6	2.12 V	253	33.0	13.4
3	#5470.00	56.0 PK	68.2	-12.2	1.94 V	225	42.6	13.4
4	*5670.00	116.0 PK			2.12 V	244	72.6	43.4
5	*5670.00	106.4 AV			2.12 V	244	63.0	43.4
6	#5725.00	62.3 PK	68.2	-5.9	2.04 V	257	48.8	13.5
7	11340.00	55.7 PK	74.0	-18.3	1.22 V	175	36.5	19.2
8	11340.00	46.0 AV	54.0	-8.0	1.22 V	175	26.8	19.2

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.
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 142 : 5710 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	25°C, 60% RH
Tested By	Karl 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	5460.00	55.6 PK	74.0	-18.4	1.77 H	205	42.2	13.4
2	5460.00	45.1 AV	54.0	-8.9	1.77 H	205	31.7	13.4
3	#5470.00	55.5 PK	68.2	-12.7	1.77 H	205	42.1	13.4
4	*5710.00	110.8 PK			1.77 H	205	67.3	43.5
5	*5710.00	101.3 AV			1.77 H	205	57.8	43.5
6	11420.00	56.3 PK	74.0	-17.7	2.75 H	333	36.8	19.5
7	11420.00	46.7 AV	54.0	-7.3	2.75 H	333	27.2	19.5

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	5460.00	56.9 PK	74.0	-17.1	2.39 V	244	43.5	13.4
2	5460.00	46.3 AV	54.0	-7.7	2.39 V	244	32.9	13.4
3	#5470.00	55.3 PK	68.2	-12.9	2.39 V	244	41.9	13.4
4	*5710.00	115.4 PK			2.39 V	244	71.9	43.5
5	*5710.00	105.1 AV			2.39 V	244	61.6	43.5
6	11420.00	56.7 PK	74.0	-17.3	1.92 V	225	37.2	19.5
7	11420.00	47.0 AV	54.0	-7.0	1.92 V	225	27.5	19.5

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 (EHT80)	Channel	CH 58 : 5290 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	25°C, 60% RH
Tested By	Karl 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	5150.00	56.4 PK	74.0	-17.6	1.75 H	159	43.4	13.0
2	5150.00	45.9 AV	54.0	-8.1	1.75 H	159	32.9	13.0
3	*5290.00	108.3 PK			1.75 H	164	65.3	43.0
4	*5290.00	97.3 AV			1.75 H	164	54.3	43.0
5	5350.00	59.4 PK	74.0	-14.6	1.94 H	165	46.0	13.4
6	5350.00	49.1 AV	54.0	-4.9	1.94 H	165	35.7	13.4
7	#10580.00	54.7 PK	68.2	-13.5	1.92 H	51	36.2	18.5

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	56.6 PK	74.0	-17.4	2.12 V	242	43.6	13.0
2	5150.00	45.4 AV	54.0	-8.6	2.12 V	242	32.4	13.0
3	*5290.00	111.1 PK			2.18 V	242	68.1	43.0
4	*5290.00	100.9 AV			2.18 V	242	57.9	43.0
5	5350.00	65.4 PK	74.0	-8.6	2.34 V	221	52.0	13.4
6	5350.00	53.5 AV	54.0	-0.5	2.34 V	221	40.1	13.4
7	#10580.00	55.1 PK	68.2	-13.1	1.78 V	104	36.6	18.5

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 (EHT80)	Channel	CH 106 : 5530 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	25°C, 60% RH
Tested By	Karl 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	5460.00	59.6 PK	74.0	-14.4	1.91 H	254	46.2	13.4
2	5460.00	49.4 AV	54.0	-4.6	1.91 H	254	36.0	13.4
3	#5470.00	60.1 PK	68.2	-8.1	1.85 H	198	46.7	13.4
4	#5470.00	60.1 PK	68.2	-8.1	1.59 H	211	46.7	13.4
5	*5530.00	107.7 PK			1.87 H	226	64.5	43.2
6	*5530.00	98.0 AV			1.87 H	226	54.8	43.2
7	#5725.00	55.9 PK	68.2	-12.3	1.86 H	239	42.4	13.5
8	11060.00	56.1 PK	74.0	-17.9	2.60 H	142	37.1	19.0
9	11060.00	46.5 AV	54.0	-7.5	2.60 H	142	27.5	19.0

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	5460.00	63.2 PK	74.0	-10.8	2.18 V	241	49.8	13.4
2	5460.00	51.6 AV	54.0	-2.4	2.18 V	241	38.2	13.4
3	#5470.00	62.6 PK	68.2	-5.6	2.31 V	239	49.2	13.4
4	*5530.00	111.9 PK			2.18 V	236	68.7	43.2
5	*5530.00	101.3 AV			2.18 V	236	58.1	43.2
6	#5725.00	56.8 PK	68.2	-11.4	1.96 V	255	43.3	13.5
7	11060.00	55.2 PK	74.0	-18.8	1.52 V	136	36.2	19.0
8	11060.00	45.7 AV	54.0	-8.3	1.52 V	136	26.7	19.0

Remarks:

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



RF Mode	802.11be (EHT80)	Channel	CH 122 : 5610 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	25°C, 60% RH
Tested By	Karl 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	5460.00	54.9 PK	74.0	-19.1	1.65 H	226	41.5	13.4
2	5460.00	44.9 AV	54.0	-9.1	1.65 H	226	31.5	13.4
3	#5470.00	54.7 PK	68.2	-13.5	1.65 H	235	41.3	13.4
4	*5610.00	109.0 PK			1.84 H	226	65.7	43.3
5	*5610.00	98.9 AV			1.84 H	226	55.6	43.3
6	#5725.00	63.1 PK	68.2	-5.1	2.01 H	224	49.6	13.5
7	11220.00	55.4 PK	74.0	-18.6	2.11 H	49	36.3	19.1
8	11220.00	45.8 AV	54.0	-8.2	2.11 H	49	26.7	19.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.9 PK	74.0	-11.1	2.23 V	243	49.5	13.4
2	5460.00	47.8 AV	54.0	-6.2	2.23 V	243	34.4	13.4
3	#5470.00	60.5 PK	68.2	-7.7	2.11 V	245	47.1	13.4
4	*5610.00	112.7 PK			2.23 V	243	69.4	43.3
5	*5610.00	102.1 AV			2.23 V	243	58.8	43.3
6	#5725.00	64.2 PK	68.2	-4.0	2.46 V	236	50.7	13.5
7	11220.00	55.6 PK	74.0	-18.4	1.78 V	91	36.5	19.1
8	11220.00	45.8 AV	54.0	-8.2	1.78 V	91	26.7	19.1

Remarks:

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



RF Mode	802.11be (EHT80)	Channel	CH 138 : 5690 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	25°C, 60% RH
Tested By	Karl 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	5460.00	55.1 PK	74.0	-18.9	1.75 H	205	41.7	13.4
2	5460.00	44.6 AV	54.0	-9.4	1.75 H	205	31.2	13.4
3	#5470.00	55.0 PK	68.2	-13.2	1.75 H	205	41.6	13.4
4	*5690.00	108.7 PK			1.75 H	205	65.3	43.4
5	*5690.00	98.9 AV			1.75 H	205	55.5	43.4
6	11380.00	55.5 PK	74.0	-18.5	2.84 H	165	36.1	19.4
7	11380.00	45.8 AV	54.0	-8.2	2.84 H	165	26.4	19.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.4 PK	74.0	-17.6	2.18 V	244	43.0	13.4
2	5460.00	46.0 AV	54.0	-8.0	2.18 V	244	32.6	13.4
3	#5470.00	55.9 PK	68.2	-12.3	2.18 V	244	42.5	13.4
4	*5690.00	112.6 PK			2.18 V	244	69.2	43.4
5	*5690.00	102.1 AV			2.18 V	244	58.7	43.4
6	11380.00	55.0 PK	74.0	-19.0	1.88 V	104	35.6	19.4
7	11380.00	45.3 AV	54.0	-8.7	1.88 V	104	25.9	19.4

Remarks:

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



RF Mode	802.11be (EHT160)	Channel	CH 50 : 5250 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	25°C, 60% RH
Tested By	Karl 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	5150.00	61.9 PK	74.0	-12.1	1.68 H	223	48.9	13.0
2	5150.00	49.8 AV	54.0	-4.2	1.68 H	223	36.8	13.0
3	*5250.00	102.3 PK			1.73 H	224	59.2	43.1
4	*5250.00	92.3 AV			1.73 H	224	49.2	43.1
5	5350.00	58.5 PK	74.0	-15.5	1.73 H	207	45.1	13.4
6	5350.00	47.5 AV	54.0	-6.5	1.73 H	207	34.1	13.4
7	#10500.00	55.2 PK	68.2	-13.0	1.05 H	198	36.8	18.4
8	#10500.00	45.6 AV	54.0	-8.4	1.05 H	198	27.2	18.4

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	2.18 V	254	51.5	13.0
2	5150.00	53.4 AV	54.0	-0.6	2.18 V	254	40.4	13.0
3	*5250.00	107.1 PK			2.18 V	242	64.0	43.1
4	*5250.00	96.6 AV			2.18 V	242	53.5	43.1
5	5350.00	65.9 PK	74.0	-8.1	2.25 V	241	52.5	13.4
6	5350.00	53.5 AV	54.0	-0.5	2.25 V	241	40.1	13.4
7	#10500.00	54.7 PK	68.2	-13.5	1.49 V	206	36.3	18.4
8	#10500.00	45.1 AV	54.0	-8.9	1.49 V	206	26.7	18.4

Remarks:

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



RF Mode	802.11be (EHT160)	Channel	CH 114 : 5570 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	25°C, 60% RH
Tested By	Karl 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	5460.00	63.6 PK	74.0	-10.4	1.87 H	251	50.2	13.4
2	5460.00	51.9 AV	54.0	-2.1	1.87 H	251	38.5	13.4
3	#5470.00	62.5 PK	68.2	-5.7	1.85 H	249	49.1	13.4
4	*5570.00	104.8 PK			1.87 H	201	61.5	43.3
5	*5570.00	94.0 AV			1.87 H	201	50.7	43.3
6	#5725.00	59.2 PK	68.2	-9.0	1.36 H	254	45.7	13.5
7	11140.00	55.2 PK	74.0	-18.8	1.82 H	144	36.1	19.1
8	11140.00	45.7 AV	54.0	-8.3	1.82 H	144	26.6	19.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	65.2 PK	74.0	-8.8	1.85 V	274	51.8	13.4
2	5460.00	53.7 AV	54.0	-0.3	1.85 V	274	40.3	13.4
3	#5470.00	65.1 PK	68.2	-3.1	1.93 V	251	51.7	13.4
4	*5570.00	108.2 PK			2.22 V	244	64.9	43.3
5	*5570.00	97.4 AV			2.22 V	244	54.1	43.3
6	#5725.00	63.1 PK	68.2	-5.1	2.05 V	254	49.6	13.5
7	11140.00	55.0 PK	74.0	-19.0	1.77 V	261	35.9	19.1
8	11140.00	45.4 AV	54.0	-8.6	1.77 V	261	26.3	19.1

Remarks:

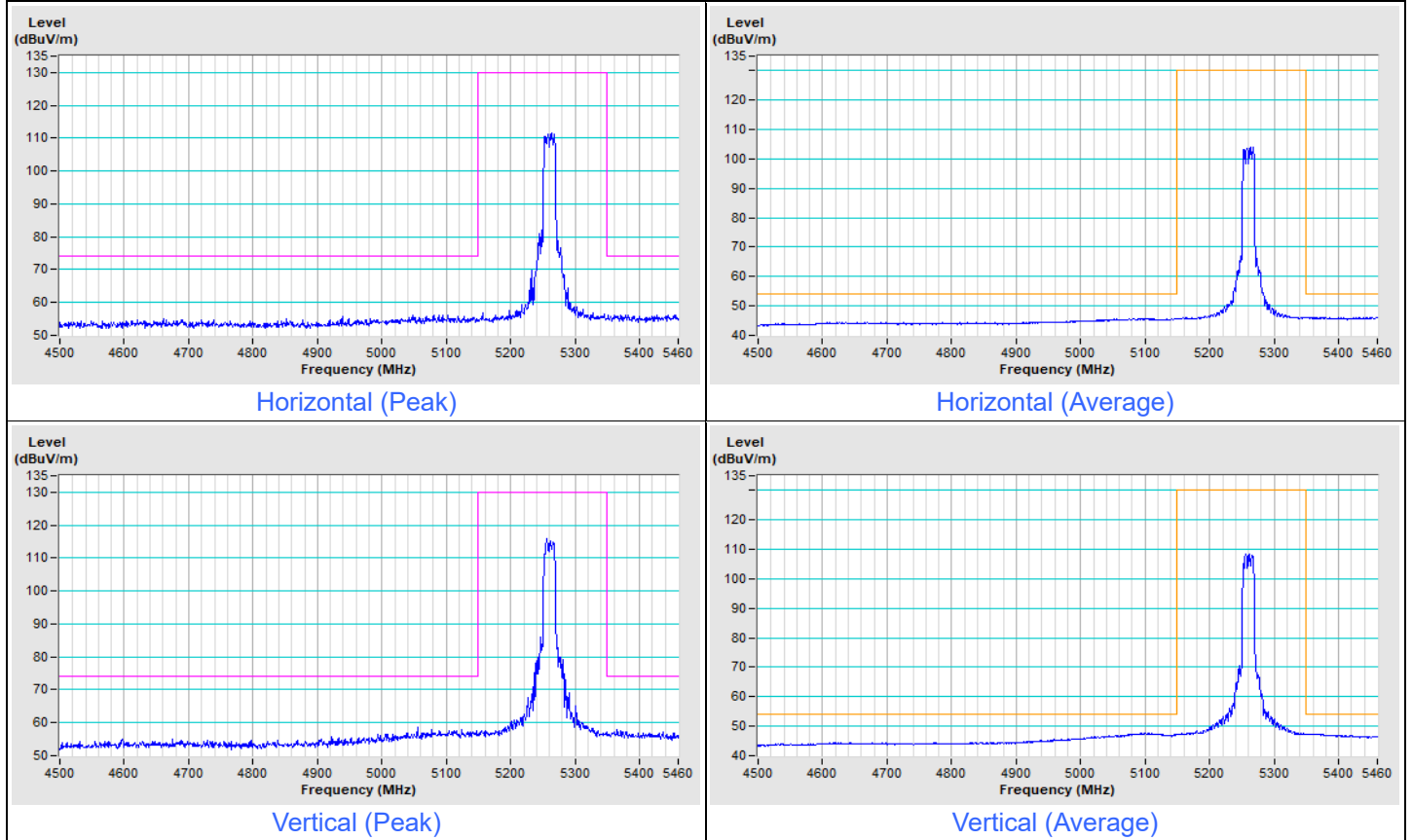
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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



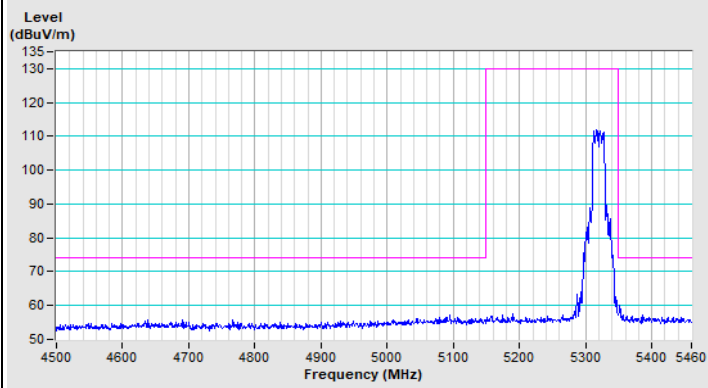
Plot of Band Edge

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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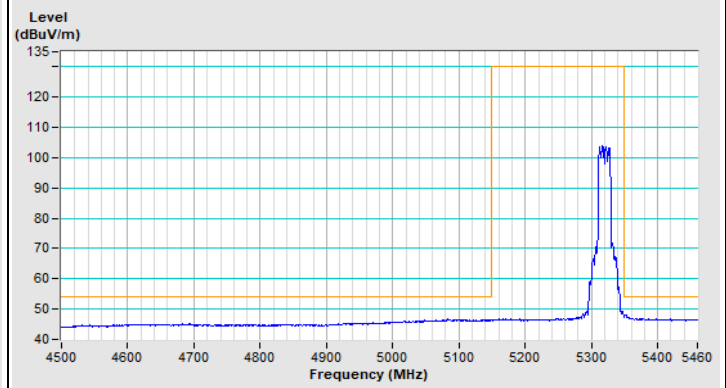
802.11a Channel 52



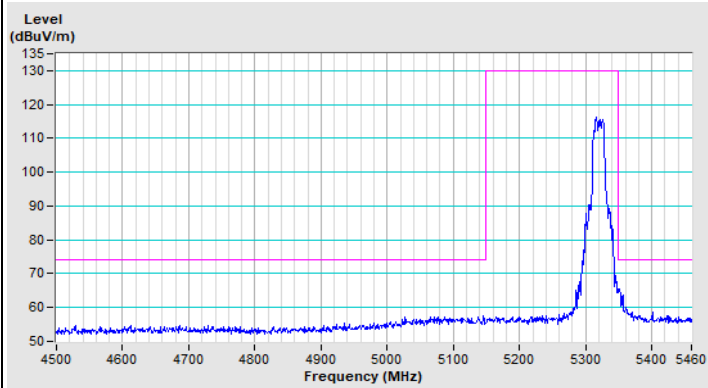
802.11a Channel 64



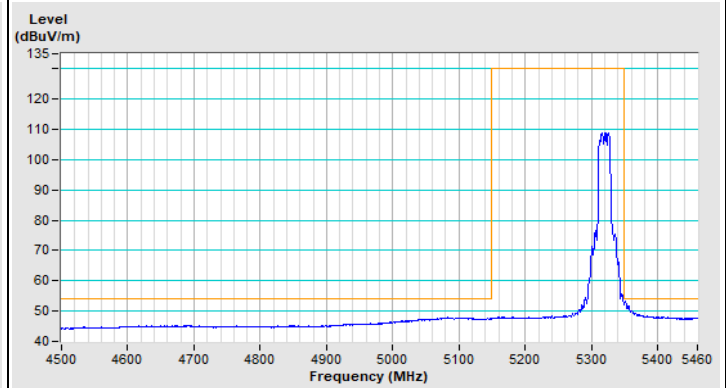
Horizontal (Peak)



Horizontal (Average)



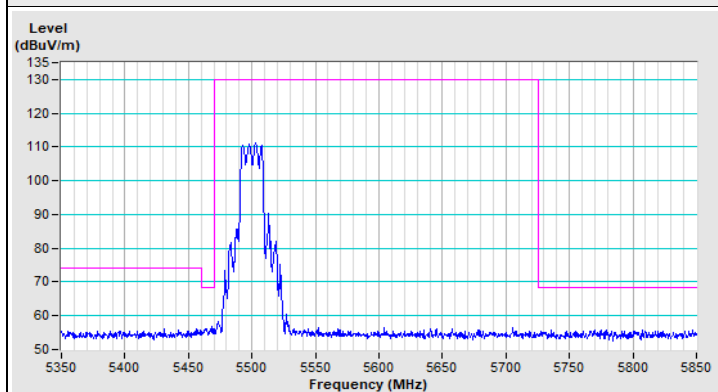
Vertical (Peak)



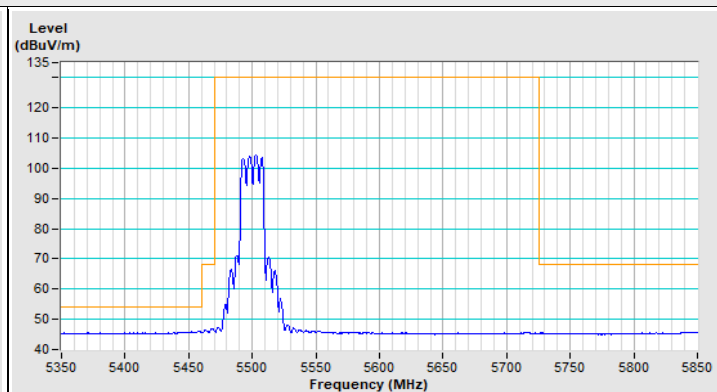
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 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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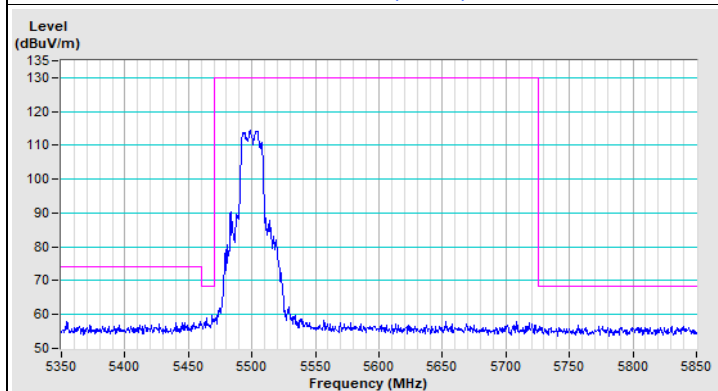
802.11a Channel 100



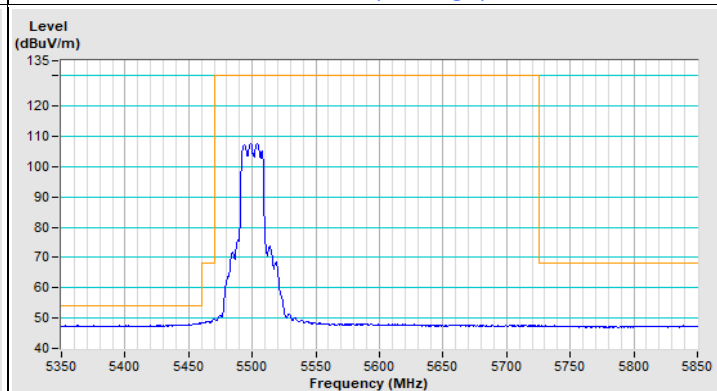
Horizontal (Peak)



Horizontal (Average)

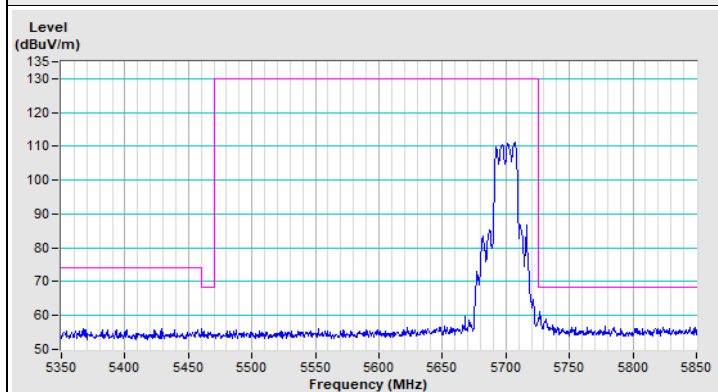


Vertical (Peak)

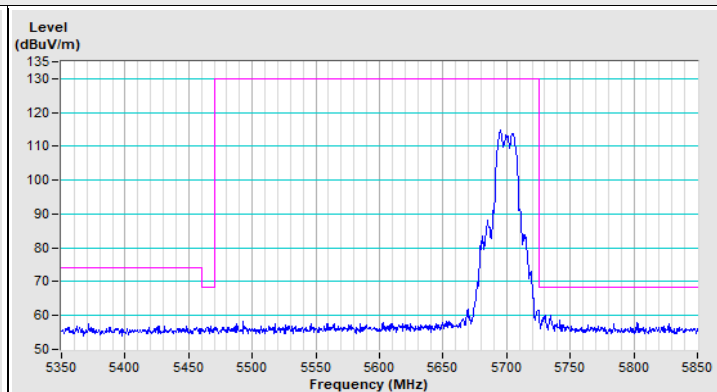


Vertical (Average)

802.11a Channel 140



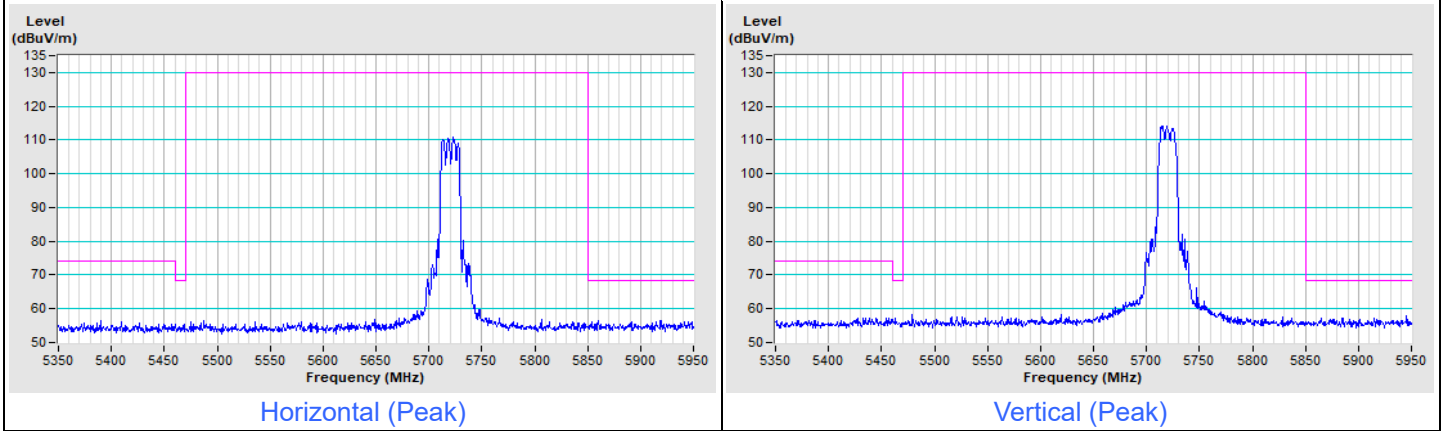
Horizontal (Peak)



Vertical (Peak)

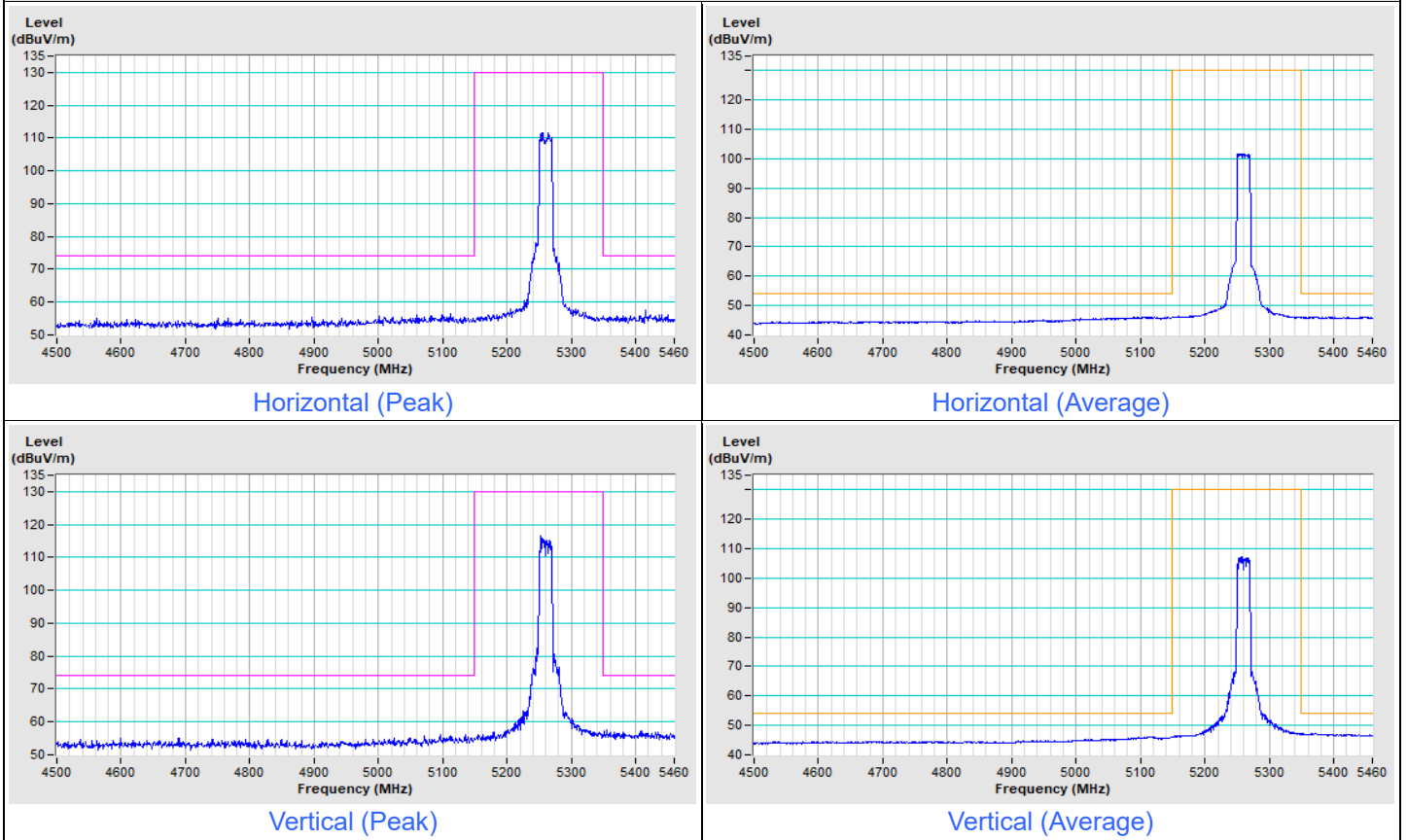
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

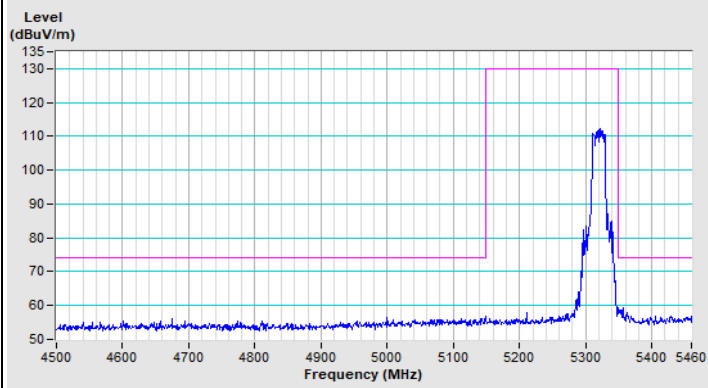


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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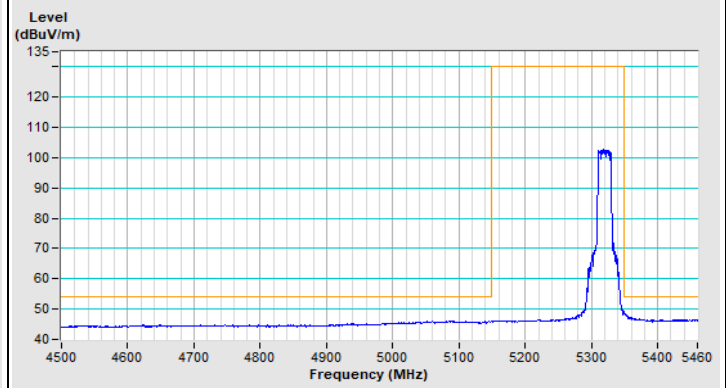
802.11be (EHT20) Channel 52



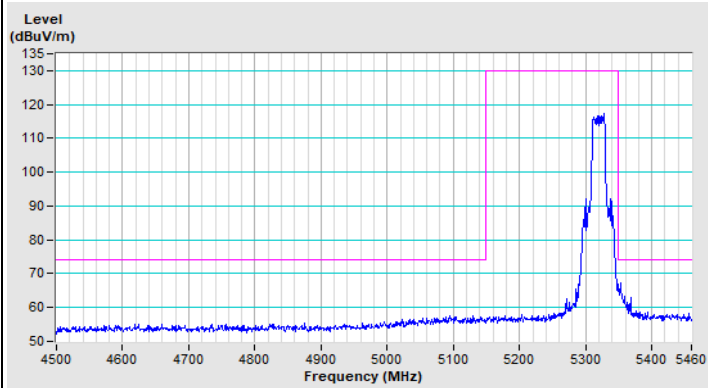
802.11be (EHT20) Channel 64



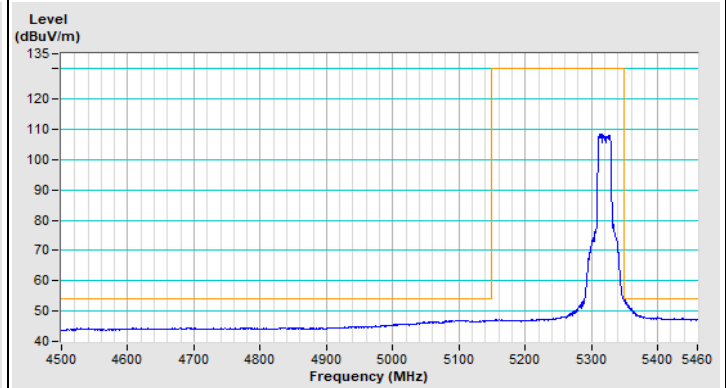
Horizontal (Peak)



Horizontal (Average)



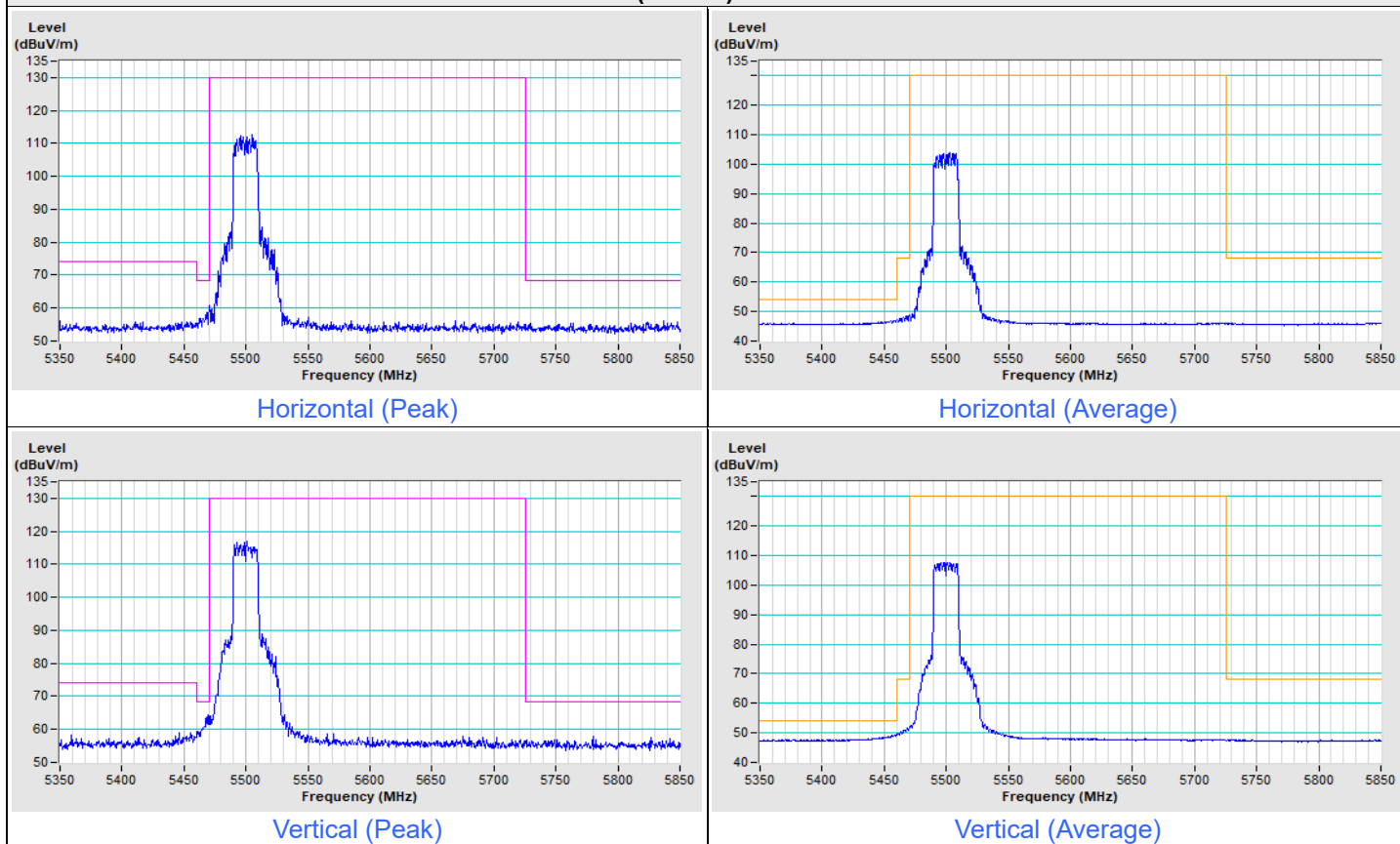
Vertical (Peak)



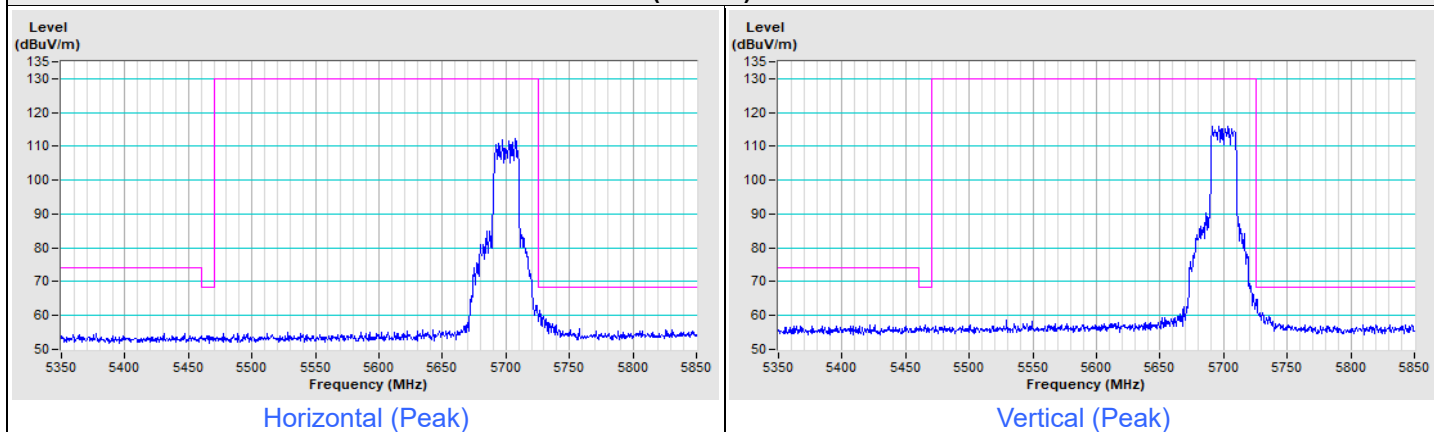
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 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 100

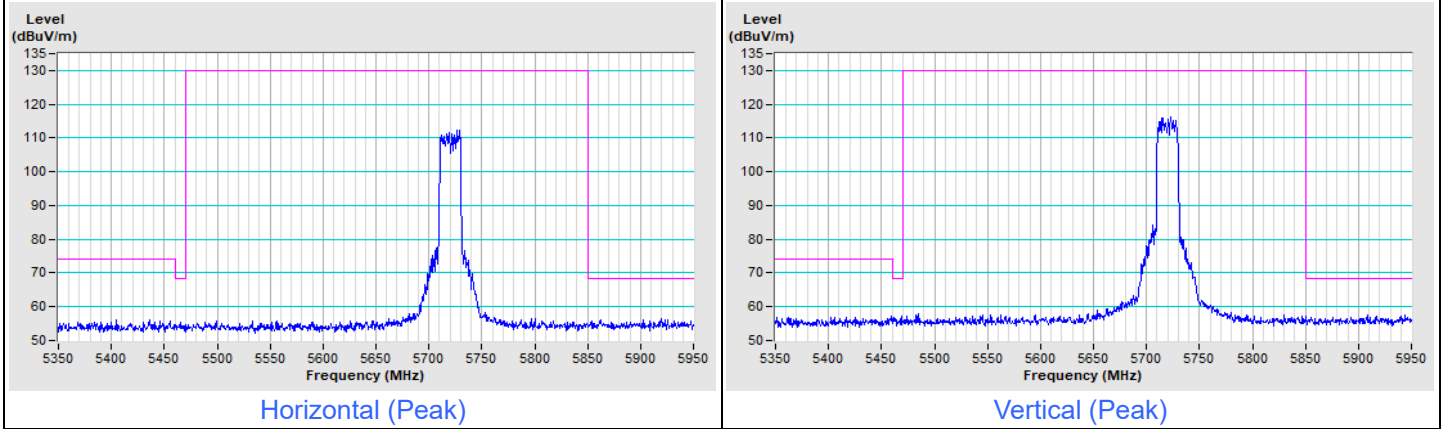


802.11be (EHT20) Channel 140



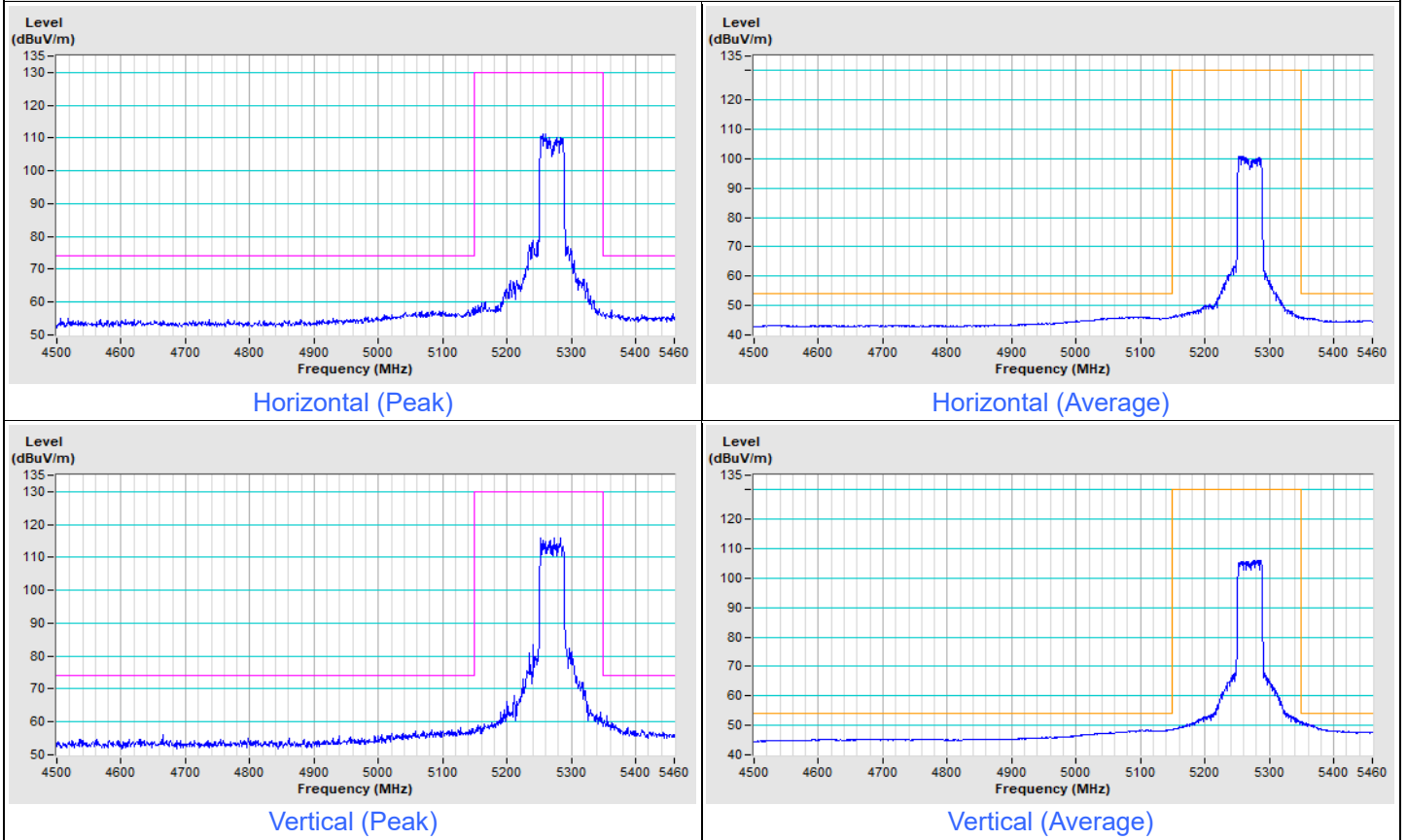
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT20) Channel 144

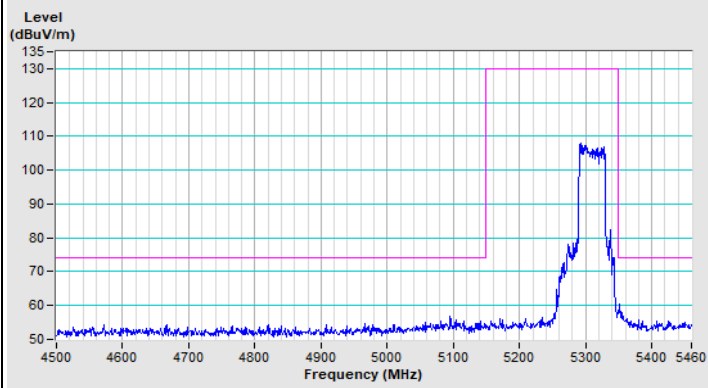


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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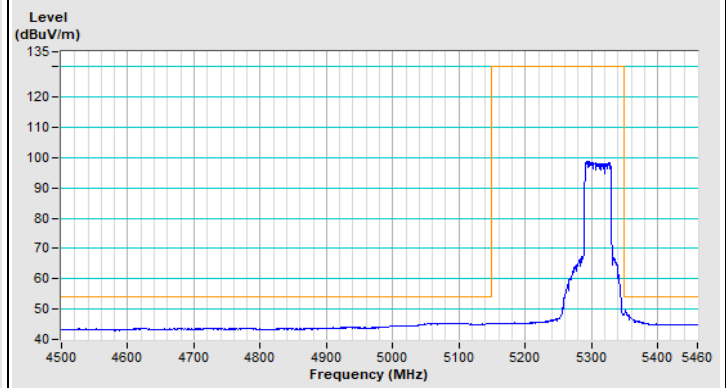
802.11be (EHT40) Channel 54



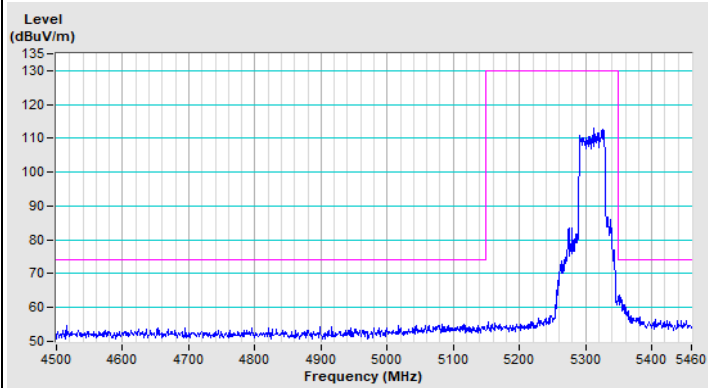
802.11be (EHT40) Channel 62



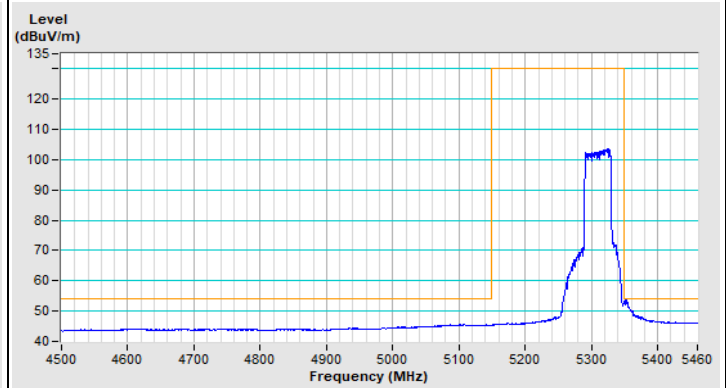
Horizontal (Peak)



Horizontal (Average)



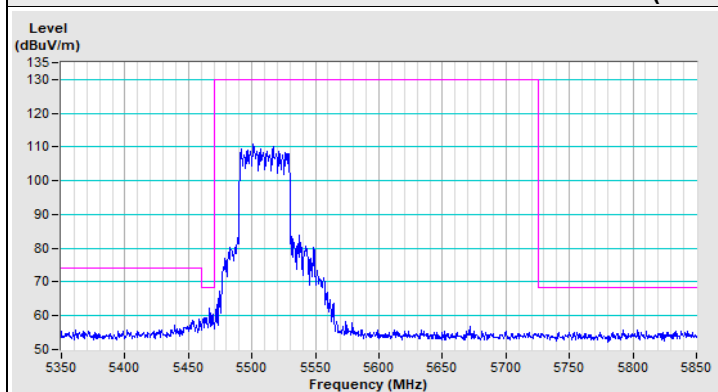
Vertical (Peak)



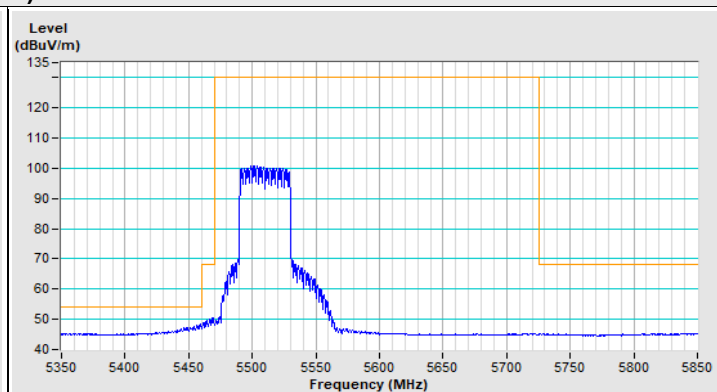
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 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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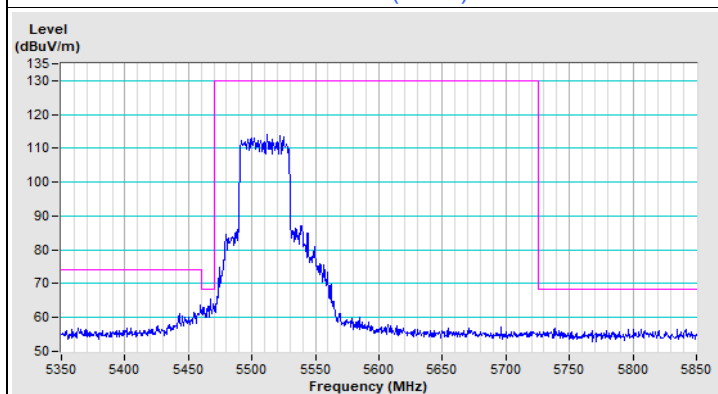
802.11be (EHT40) Channel 102



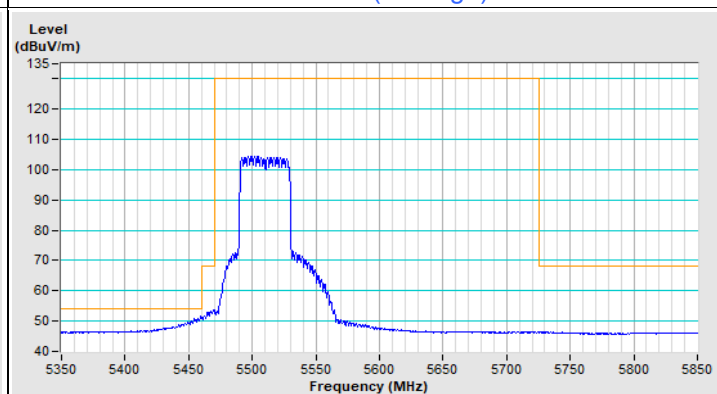
Horizontal (Peak)



Horizontal (Average)

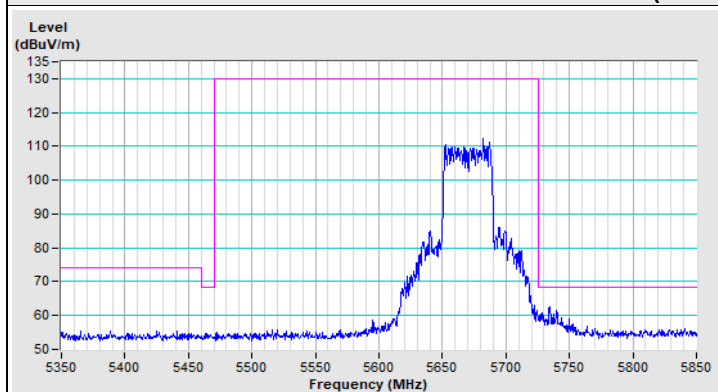


Vertical (Peak)

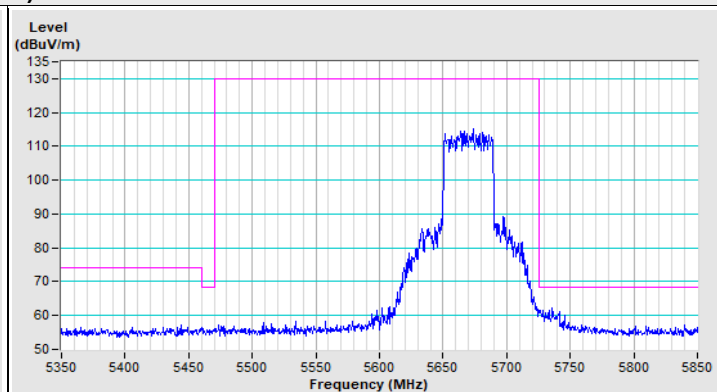


Vertical (Average)

802.11be (EHT40) Channel 134



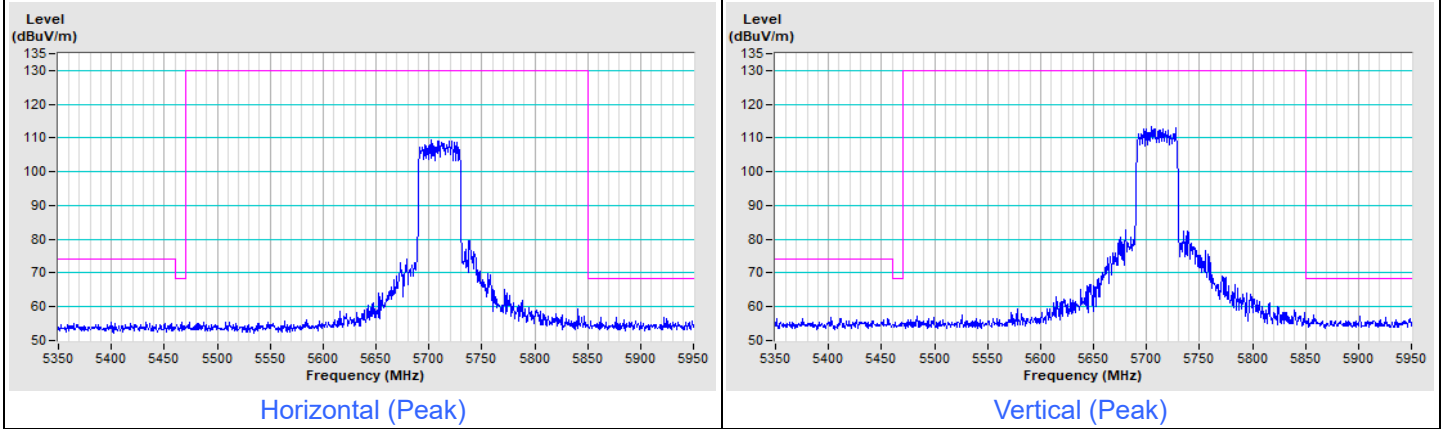
Horizontal (Peak)



Vertical (Peak)

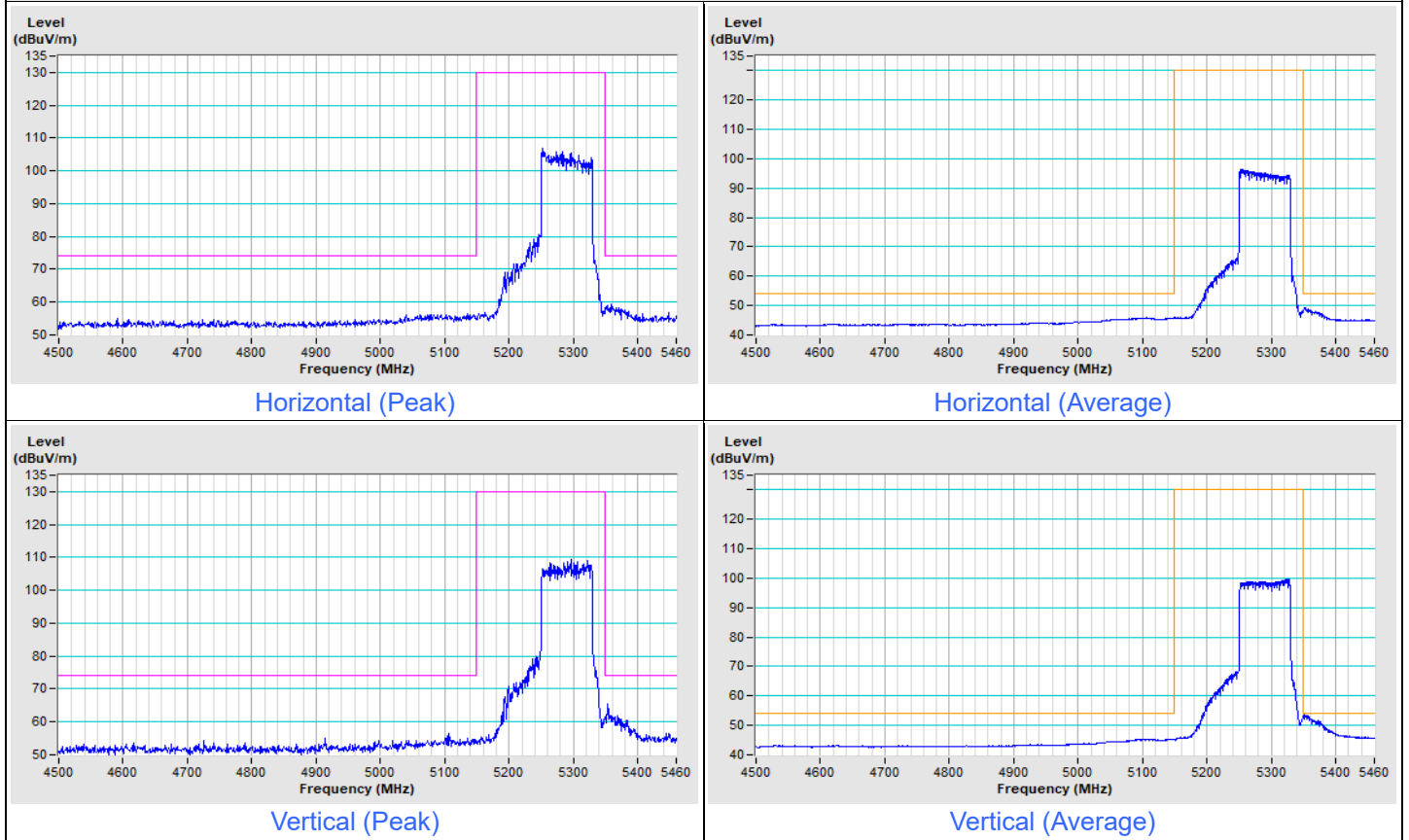
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Channel 142



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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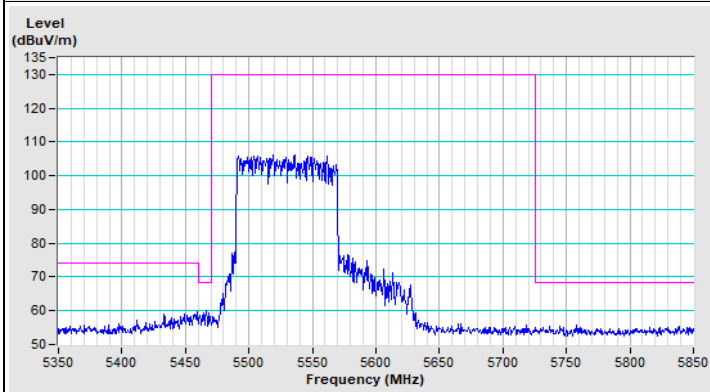
802.11be (EHT80) Channel 58



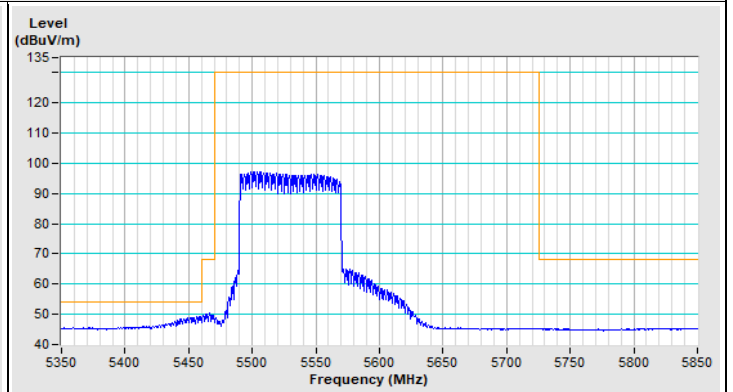


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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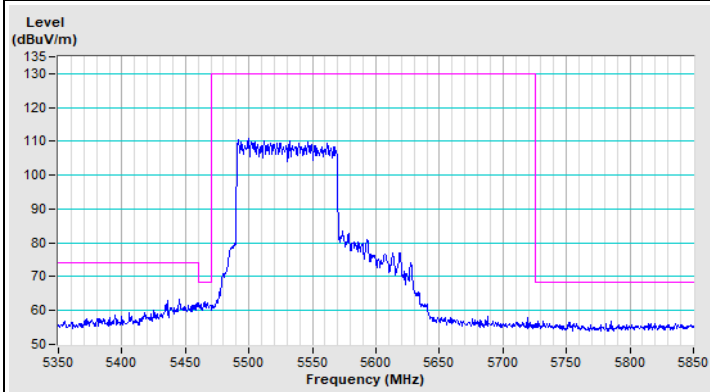
802.11be (EHT80) Channel 106



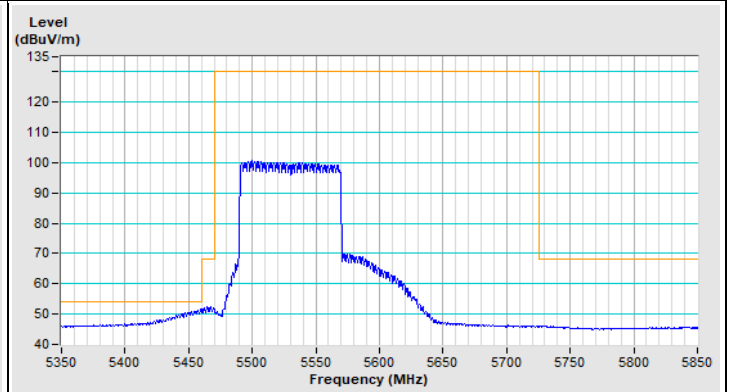
Horizontal (Peak)



Horizontal (Average)

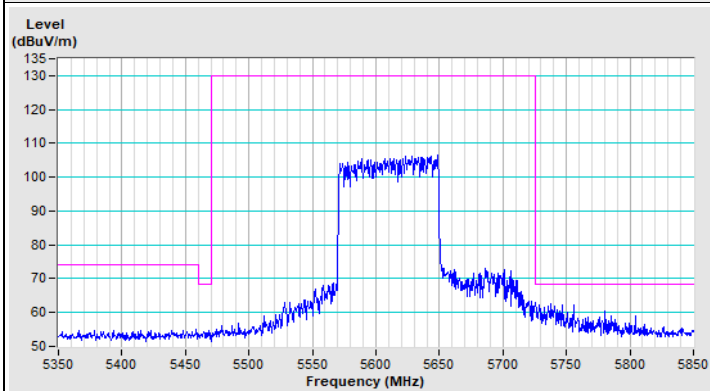


Vertical (Peak)

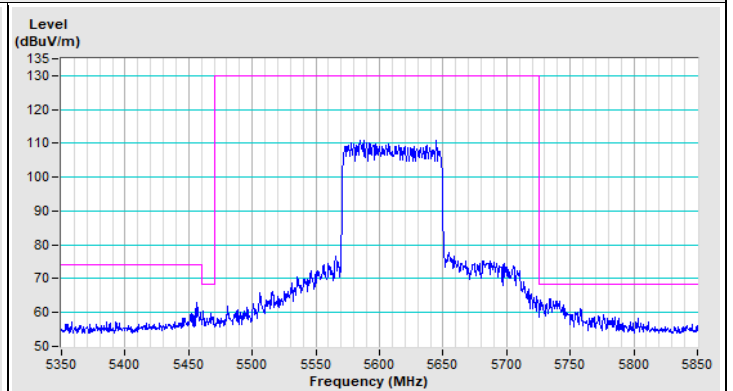


Vertical (Average)

802.11be (EHT80) Channel 122



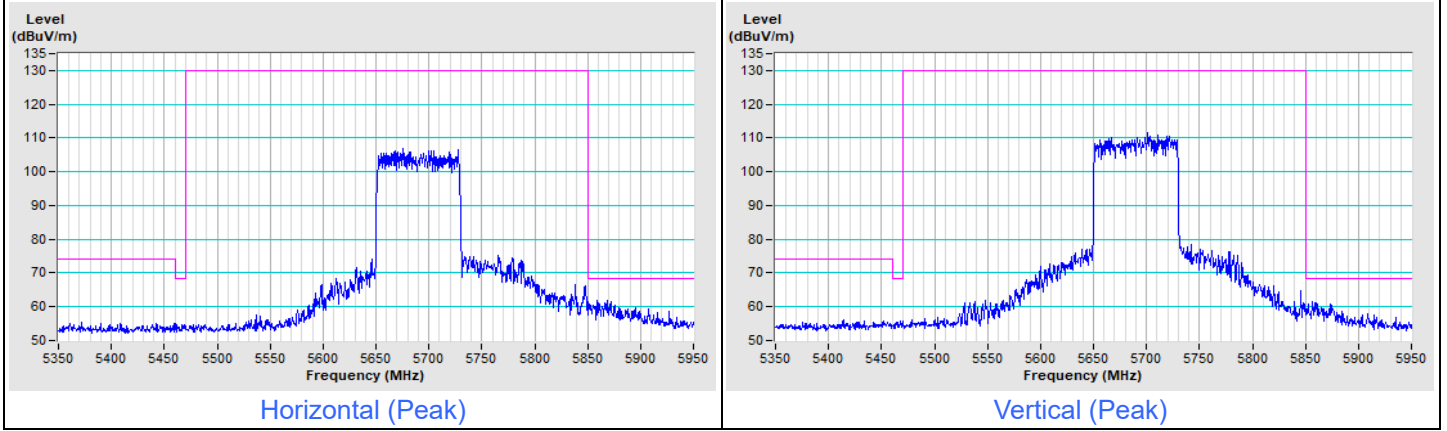
Horizontal (Peak)



Vertical (Peak)

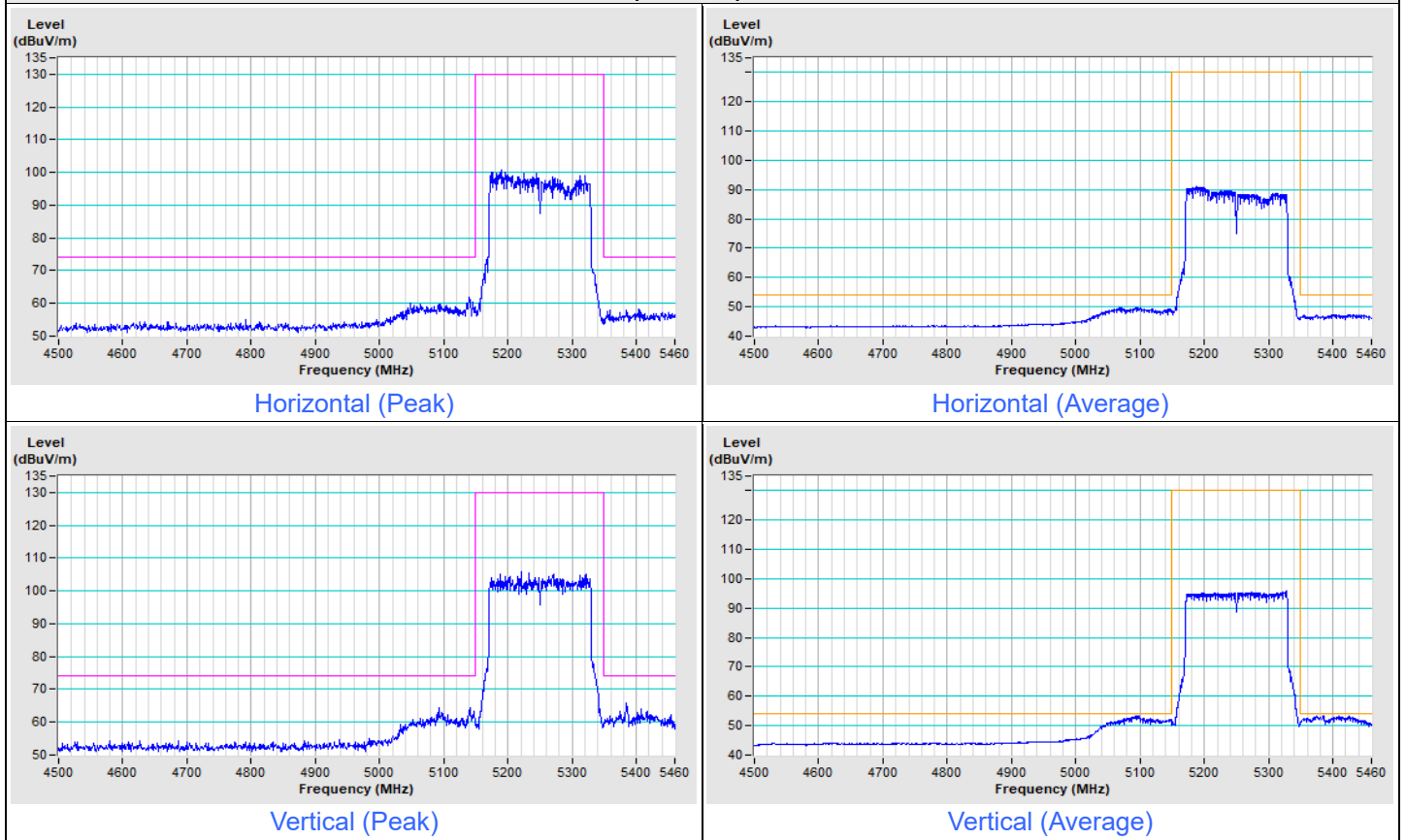
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT80) Channel 138



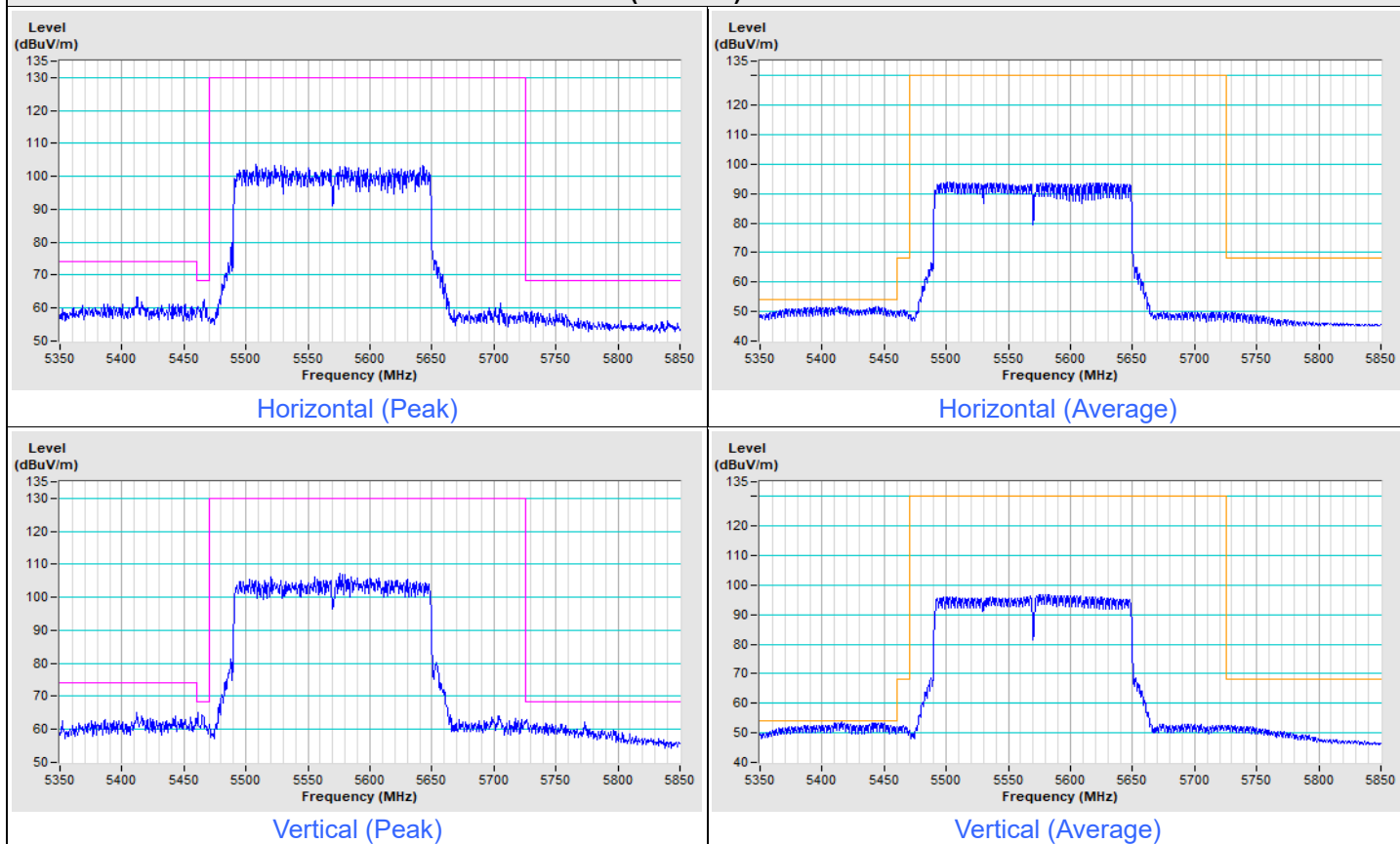
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11be (EHT160) Channel 50



Frequency Range	5.35 GHz ~ 5.85 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 (EHT160) Channel 114



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Fax: 886-3-6668323

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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