

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFBFLF-WTW-P24030369

FCC ID: MSQ-RTBE7M00

Product: BE3600 Dual Band WiFi Router, BE5000 Dual Band WiFi Router

Brand: ASUS

Model No.: BD5, BD4, BE5000, BE3600

Received Date: 2024/4/11

Test Date: 2024/6/27 ~ 2024/8/8

Issued Date: 2024/8/26

Applicant: ASUSTeK COMPUTER INC.

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan


Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  _____, **Date:** 2024/8/26

May Chen / Manager

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Prepared by: Vito Lung / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBFLF-WTW-P24030369	Original release.	2024/8/26

1 Certificate

Product: BE3600 Dual Band WiFi Router, BE5000 Dual Band WiFi Router

Brand: ASUS

Test Model: BD5, BD4, BE5000, BE3600

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: 2024/6/27 ~ 2024/8/8

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2013

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

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 C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -4.11 dB at 26.48828 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.1 dB at 43.79 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 2390.00 and 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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

2.1 Measurement Uncertainty

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

Parameter	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	BE3600 Dual Band WiFi Router, BE5000 Dual Band WiFi Router
Brand	ASUS
Test Model:	BD5, BD4, BE5000, BE3600
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps 802.11ax: up to 573.5 Mbps 802.11be: up to 688.2 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):11 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):9
Output Power	CDD Mode: 822.815 mW (29.15 dBm) Beamforming Mode: 724.035 mW (28.60 dBm)

Note:

1. The EUT has below model names, more detailed information as below table.

Product Name	Model Name	Difference
BE3600 Dual Band WiFi Router	BD4	Not enable 240 MHz bandwidth in the 5GHz band
	BE3600	
BE5000 Dual Band WiFi Router	BD5	Enable 240 MHz bandwidth in the 5GHz band
	BE5000	

2. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	AMC	AD-0181200150US-1	AC Input: 100-240 V~, 50/60 Hz, 0.6 A DC Output: 12 V=, 1.5 A DC Output Cable: non-shielded, 1.5 m
AC Adapter 2	KEYU	KA1801A-1201500US	AC Input: 100-240V~, 50/60 Hz, 0.55 A DC Output: 12V=, 1.5 A DC Output Cable: non-shielded, 1.5 m
RJ45 Cable 1	AOC	CON-C-460	Signal Line: White, Cat 5e, non-shielded, 1.5 m
RJ45 Cable 2	AOC	CON-C-443	Signal Line: Black, Cat 5e, non-shielded, 1.5 m

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

4. Simultaneously transmission combination.

Combination	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.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	0	Xinsheng	EmP162-B-I90(R)	3	2.4~2.4835	Dipole	ipex(MHF)	90
2	1	Xinsheng	EmP163-B-I60(Y)	3	2.4~2.4835	Dipole	ipex(MHF)	60
3	0	Xinsheng	EmP264-B-I75(W)	3	5.15~5.85	Dipole	ipex(MHF)	75
4	1	Xinsheng	EmP263-B-I135(G)	3	5.15~5.85	Dipole	ipex(MHF)	135

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

2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX

Note:

- All of modulation mode support beamforming function except 802.11b/g modulation mode.
- The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz) therefore the manufacturer will control the power for 802.11n/VHT/ax mode is same as the 802.11be mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

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

Channel	Frequency	Channel	Frequency
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	<p>1. The AC Adapter has the following models: Adapter 1/ Adapter 2. Pre-scan these models of AC Adapters and find the worst case as a representative test condition.</p> <p>2. The RJ45 Cable has the following models: RJ45 Cable 1/ RJ45 Cable 2. Pre-scan these models of RJ45 Cables and find the worst case as a representative test condition.</p> <p>3. 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).</p>
Worst Case:	<p>1. AC Adapter Worst Condition: Adapter 2</p> <p>2. RJ45 Cable Worst Condition: RJ45 Cable 2</p>

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g		1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	Beamforming	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)		3, 6, 9	BPSK	MCS0
Power Spectral Density	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g		1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	Beamforming	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)		3, 6, 9	BPSK	MCS0
6 dB Bandwidth / Conducted Out of Band Emissions	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g		1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	Beamforming	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)		3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	802.11be (EHT20)	Beamforming	6	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11be (EHT20)	Beamforming	6	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g		1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	Beamforming	3, 6, 9	BPSK	MCS0
	802.11be (EHT40)				

Note:

- Partial RU (resource unit) and channel puncturing mechanisms are not supported.
- EUT has variant models of BD4/BD5, and the hardware designs are identical. The difference between the two models is the BD4 model does not enable 240MHz bandwidth in the 5GHz band. From the above, BD5 was selected as the representative test condition.

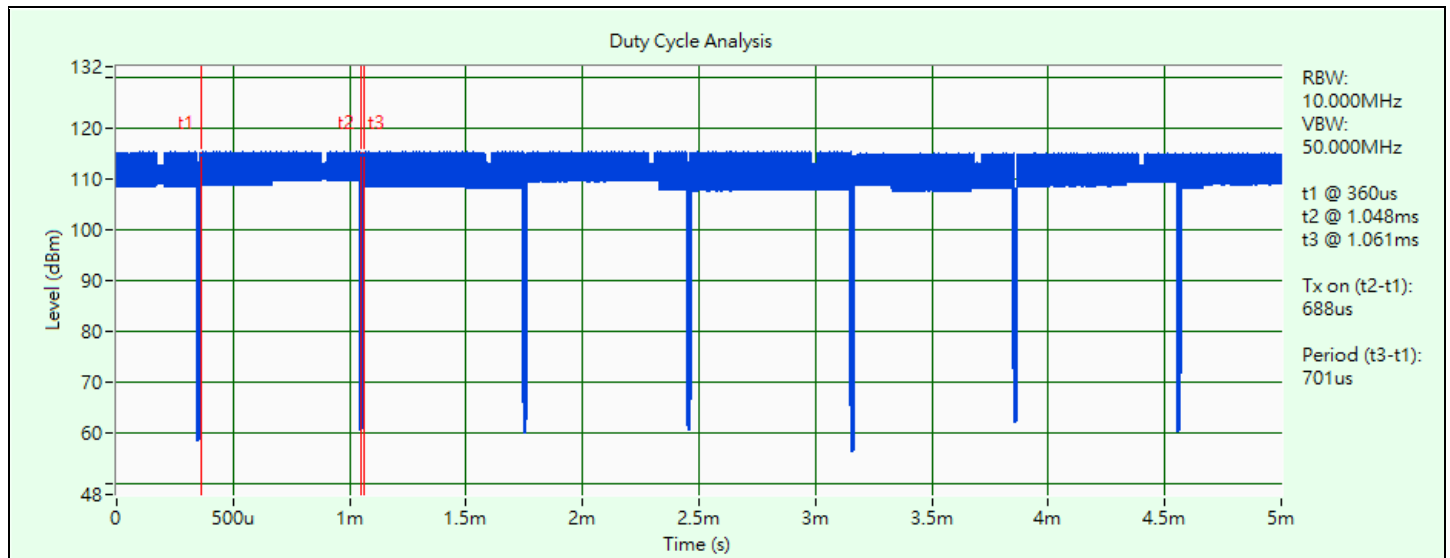
3.5 Duty Cycle of Test Signal

802.11b CDD: Duty cycle = 0.688 ms / 0.701 ms x 100% = 98.1%

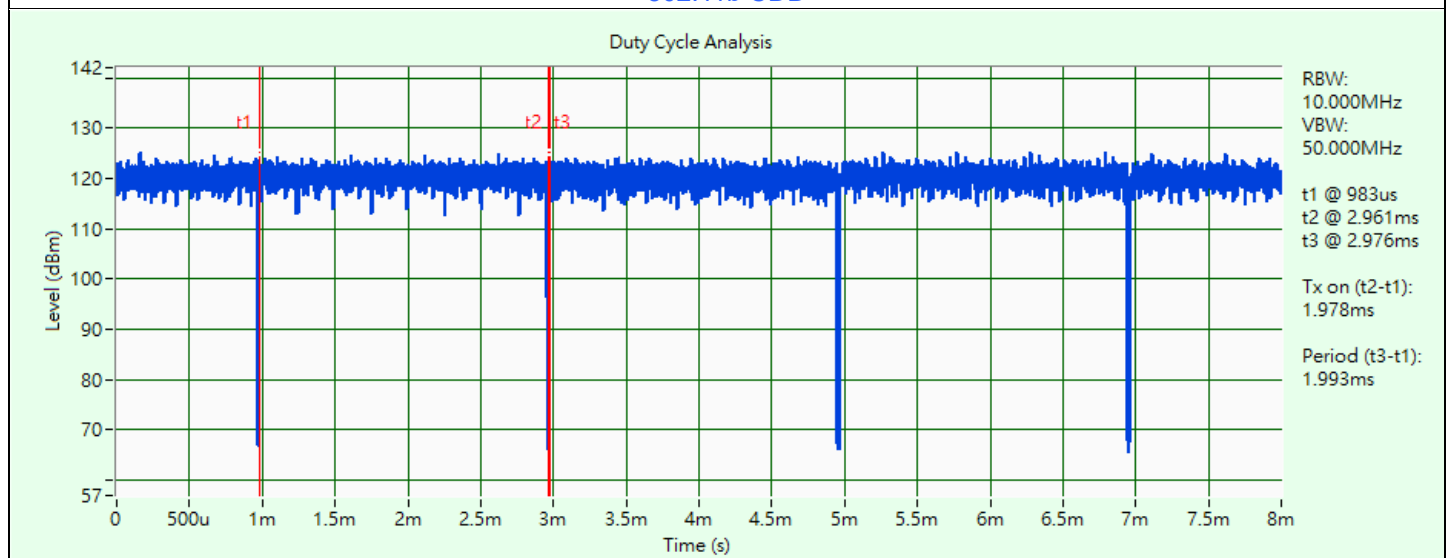
802.11g CDD: Duty cycle = 1.978 ms / 1.993 ms x 100% = 99.2%

802.11be (EHT20) Beamforming: Duty cycle = 1.52 ms / 1.625 ms x 100% = 93.5%, duty factor = $10 * \log(1/\text{Duty cycle})$ = 0.29 dB

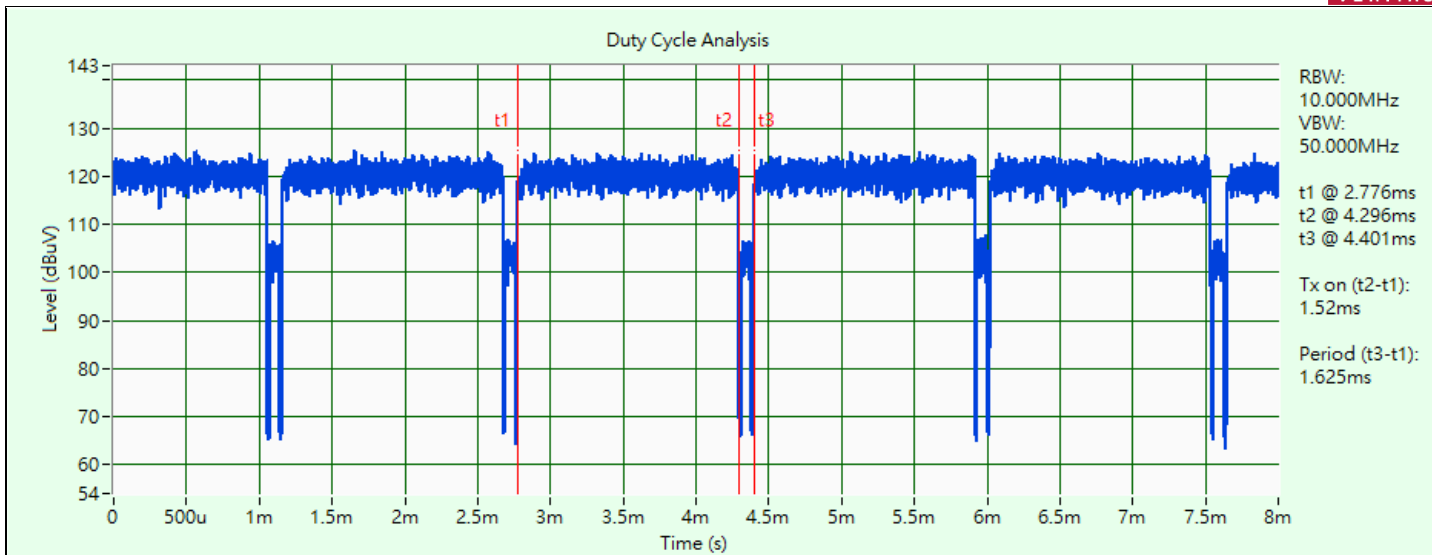
802.11be (EHT40) Beamforming: Duty cycle = 1.52 ms / 1.625 ms x 100% = 93.5%, duty factor = $10 * \log(1/\text{Duty cycle})$ = 0.29 dB



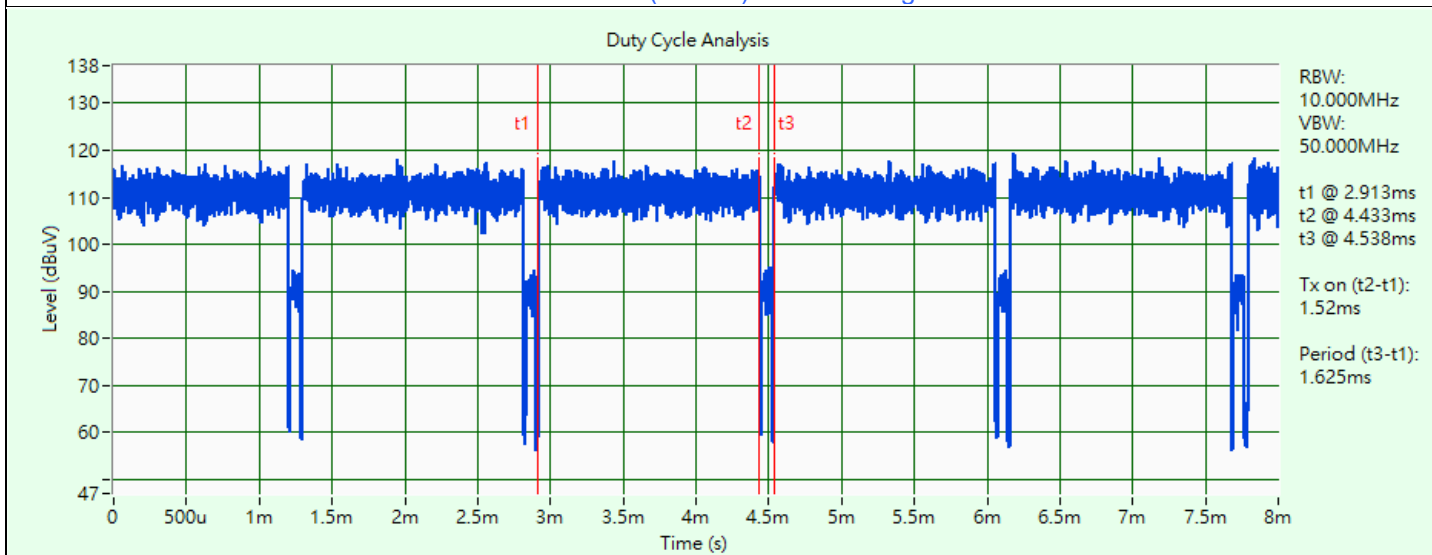
802.11b CDD



802.11g CDD



802.11be (EHT20) Beamforming

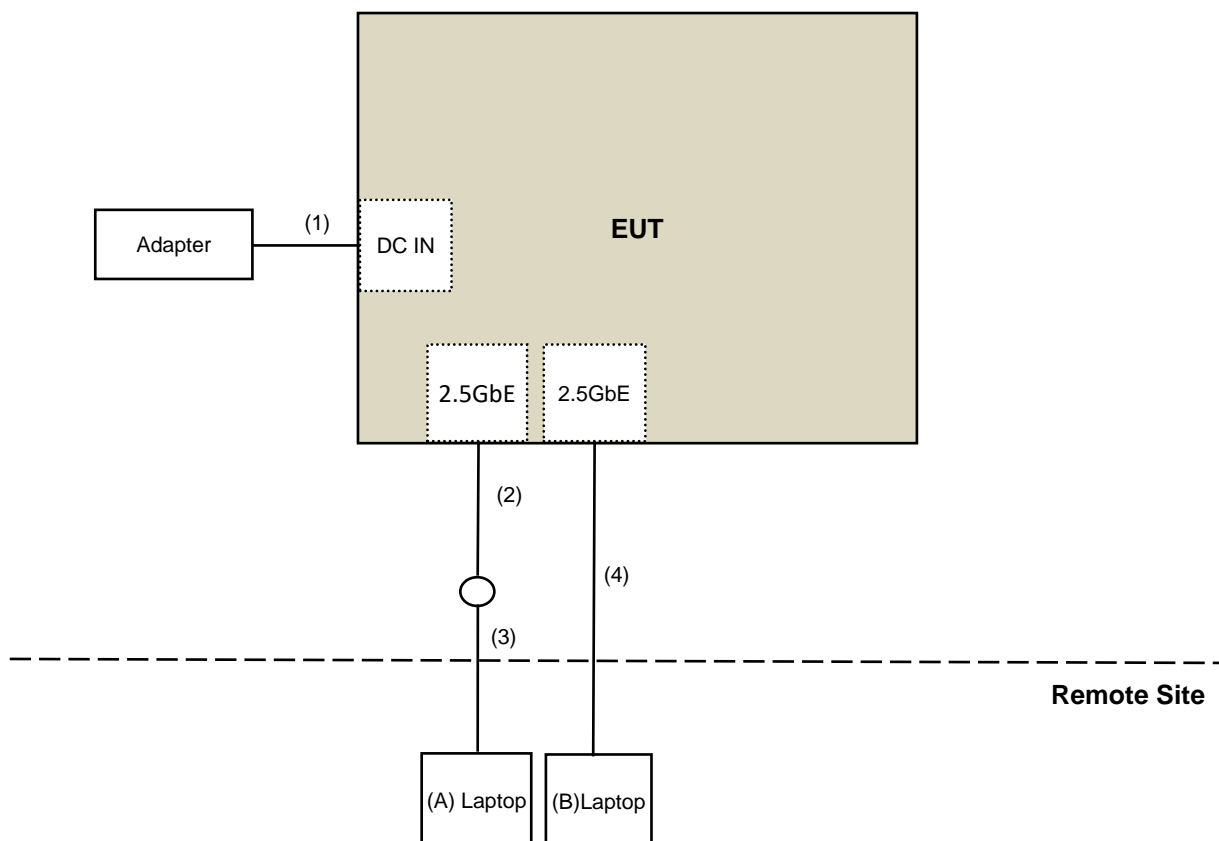


802.11be (EHT40) Beamforming

3.6 Test Program Used and Operation Descriptions

Controlling software (QPSR V6.00.00113.4) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab
B	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	No	0	Supplied by applicant
2	RJ-45 Cable	1	1.5	No	0	Supplied by applicant
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

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

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/8/8

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/8/8

4.3 6 dB Bandwidth

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

4.4 Conducted Out of Band Emissions

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

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2023/10/20	2024/10/19
EMI Test Receiver R&S	ESCS 30	847124/029	2023/10/18	2024/10/17
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2023/10/13	2024/10/12
RF Coaxial Cable JYBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/7/4

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2023/10/13	2024/10/12
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2024/2/17	2025/2/16
Loop Antenna Electro-Metrics	EM-6879	264	2024/2/23	2025/2/22
MXE EMI Receiver Agilent	N9038A	MY51210202	2023/7/19	2024/7/18
Preamplifier EMCI	EMC330N	980701	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2024/2/17	2025/2/16
	100100-CFD400LW-400	CFD400-400	2024/2/17	2025/2/16
	100100-CFD400LW-800	CFD400-800	2024/2/17	2025/2/16
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/7/4

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
MXA Signal Analyzer Keysight	N9020B	MY60112410	2024/3/13	2025/3/12
Preamplifier EMCI	EMC12630SE	980688	2023/10/3	2024/10/2
	EMC184045SE	980387	2023/8/9	2024/8/8
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1200	160922	2024/1/29	2025/1/28
	EMC104-SM-SM-2000	180502	2024/1/29	2025/1/28
	EMC104-SM-SM-6000	210704	2023/11/2	2024/11/1
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/6/27 ~ 2024/8/5

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

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

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

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

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

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

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

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

Notes:

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

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

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

Notes:

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

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

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

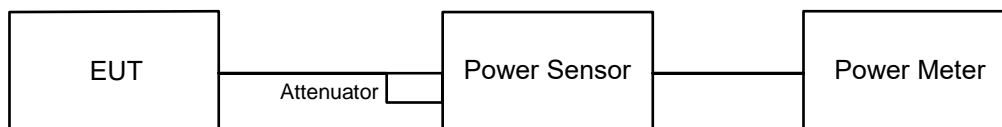
Notes:

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.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



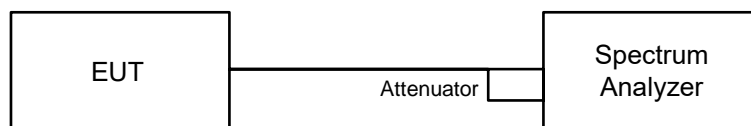
6.1.2 Test Procedure

Average Power:

Average power sensor was 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. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



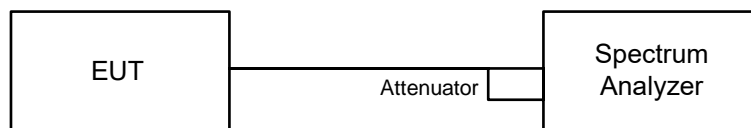
6.2.2 Test Procedure

- a. Measure the duty cycle (x).
- b. Set instrument center frequency to DTS channel center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set RBW to: 3 kHz.
- e. Set VBW $\geq 3 \times$ RBW.
- f. Detector = power averaging (RMS) or sample detector (when RMS not available).
- g. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- h. Sweep time = auto couple.
- i. Do not use sweep triggering. Allow sweep to "free run".
- j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k. Use the peak marker function to determine the maximum amplitude level.

Note: If Duty cycle < 98%, Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

6.3 6 dB Bandwidth

6.3.1 Test Setup

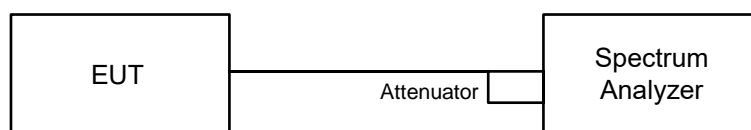


6.3.2 Test Procedure

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

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

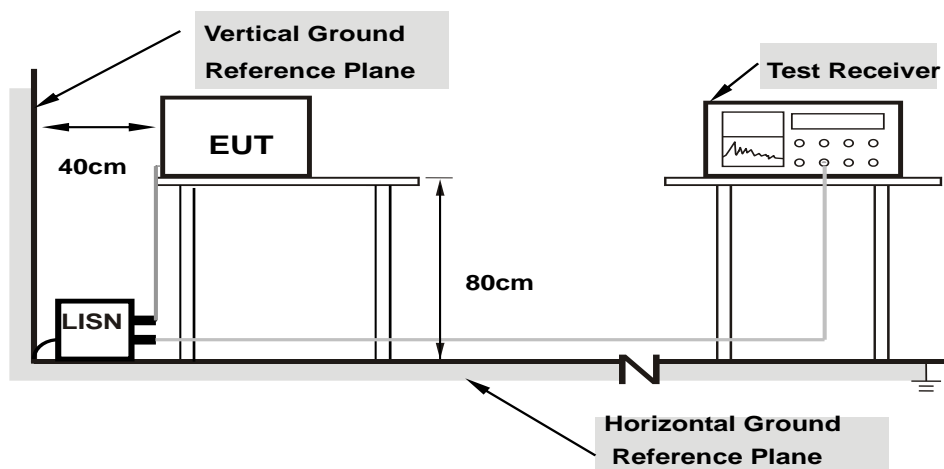
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

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

6.5.2 Test Procedure

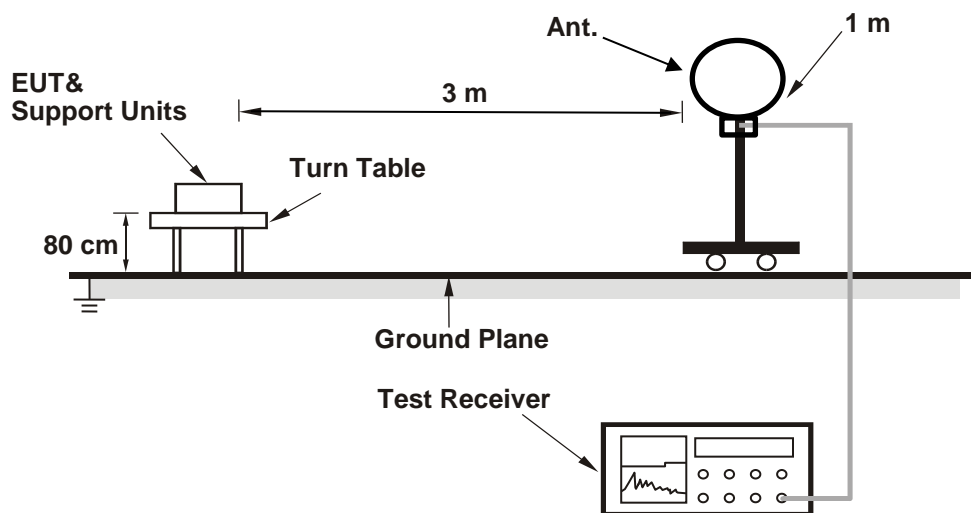
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

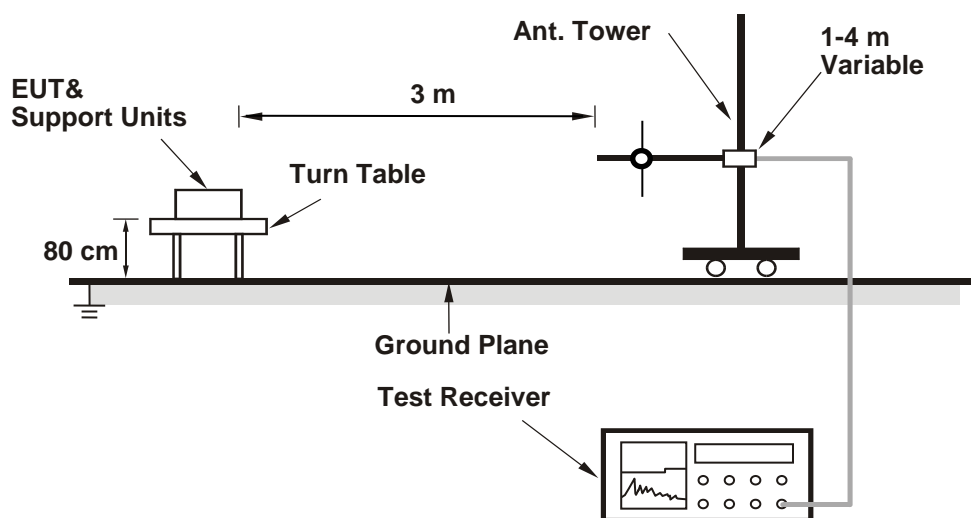
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

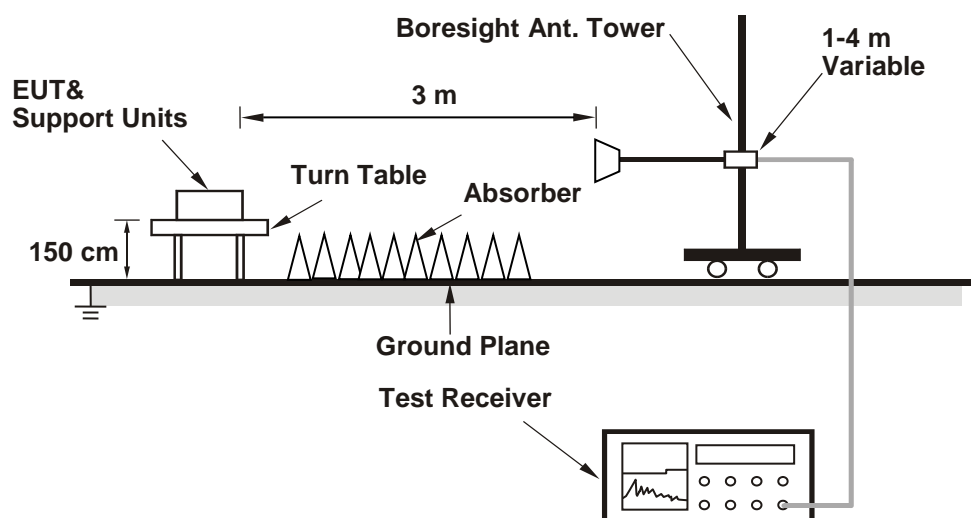
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11b CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.11	25.65	624.914	27.96	30	Pass
6	2437	23.62	25.21	562.039	27.50	30	Pass
11	2462	24.15	25.46	611.576	27.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.88	22.26	290.729	24.63	30	Pass
6	2437	25.45	26.74	822.815	29.15	30	Pass
11	2462	20.72	21.78	268.693	24.29	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.48	21.78	262.347	24.19	29.99	Pass
6	2437	24.98	26.12	724.035	28.60	29.99	Pass
11	2462	20.36	21.47	248.924	23.96	29.99	Pass

Notes:

1. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
2. The directional gain is 6.01 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.01-6) = 29.99 dBm.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	18.01	19.33	148.945	21.73	29.99	Pass
6	2437	20.52	21.65	258.937	24.13	29.99	Pass
9	2452	18.89	20.01	177.677	22.50	29.99	Pass

Notes:

1. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
2. The directional gain is 6.01 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.01 - 6) = 29.99$ dBm.

7.2 Power Spectral Density

Input Power:	120 Vac	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11b CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-7.23	-3.89	-2.24	7.99	Pass
6	2437	-5.67	-4.37	-1.96	7.99	Pass
11	2462	-6.23	-5.55	-2.87	7.99	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.01 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.01-6) = 7.99$ dBm/3kHz.

802.11g CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-13.28	-11.67	-9.39	7.99	Pass
6	2437	-9.56	-7.44	-5.36	7.99	Pass
11	2462	-13.31	-12.21	-9.72	7.99	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.01 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.01-6) = 7.99$ dBm/3kHz.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-14.23	-11.91	0.29	-9.62	7.99	Pass
6	2437	-9.85	-8.03	0.29	-5.55	7.99	Pass
11	2462	-14.32	-12.93	0.29	-10.27	7.99	Pass

Notes:

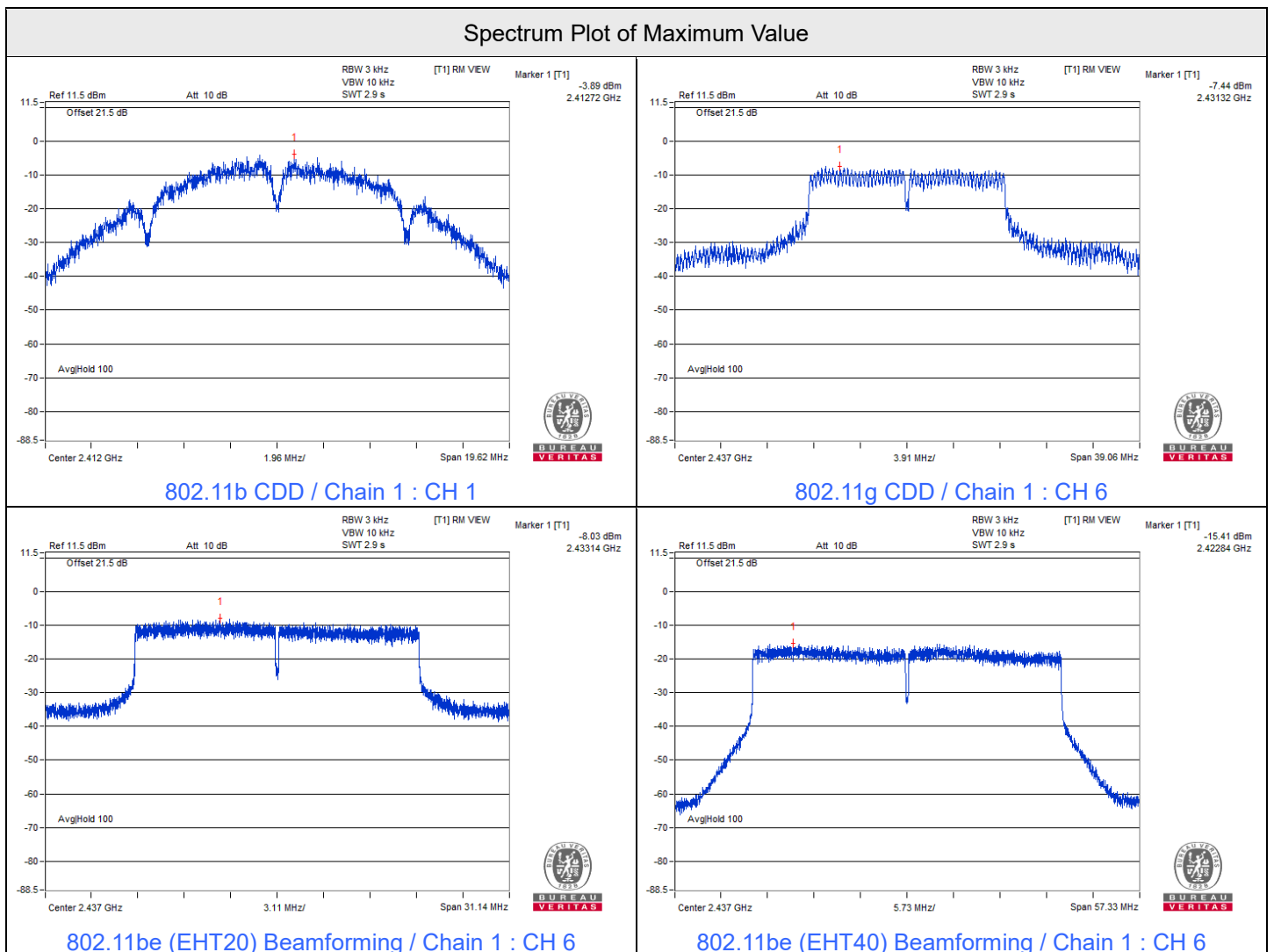
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.01 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.01-6) = 7.99$ dBm/3kHz.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
3	2422	-19.25	-18.33	0.29	-15.47	7.99	Pass
6	2437	-17.67	-15.41	0.29	-13.09	7.99	Pass
9	2452	-18.39	-17.44	0.29	-14.59	7.99	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.01 dBi > 6 dBi, so the power density limit shall be reduced to $8-(6.01-6) = 7.99$ dBm/3kHz.



7.3 6 dB Bandwidth

Input Power:	120 Vac	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11b CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	7.11	8.07	0.5	Pass
6	2437	8.09	7.12	0.5	Pass
11	2462	8.10	8.07	0.5	Pass

802.11g CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.37	16.37	0.5	Pass
6	2437	16.39	16.34	0.5	Pass
11	2462	16.39	16.38	0.5	Pass

802.11be (EHT20) Beamforming

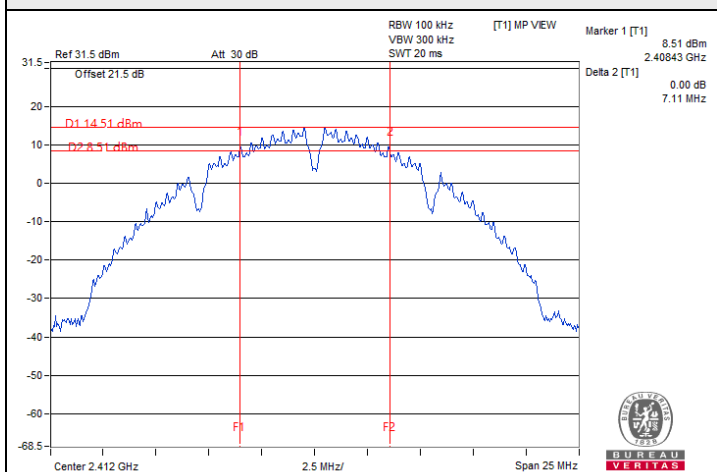
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.97	18.99	0.5	Pass
6	2437	18.90	18.94	0.5	Pass
11	2462	18.91	18.93	0.5	Pass

802.11be (EHT40) Beamforming

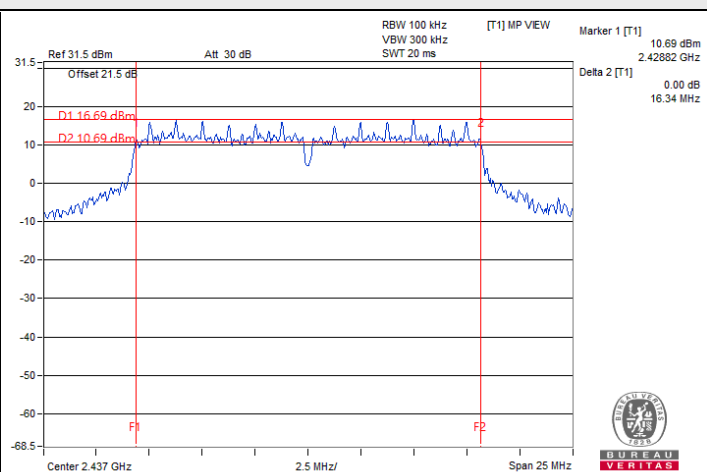
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	38.24	38.10	0.5	Pass
6	2437	38.22	38.22	0.5	Pass
9	2452	38.11	38.12	0.5	Pass



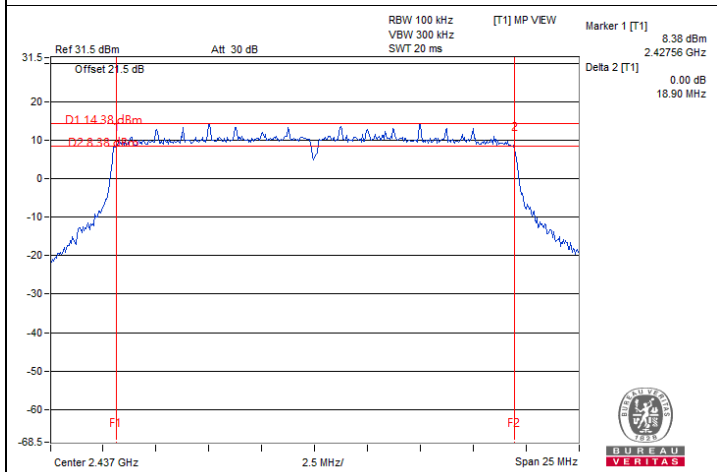
Spectrum Plot of Minimum Value



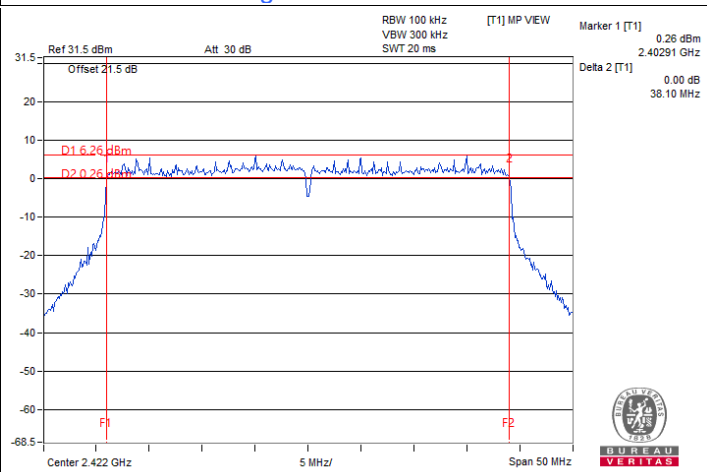
802.11b CDD / Chain 0 : CH 1



802.11g CDD / Chain 1 : CH 6



802.11be (EHT20) Beamforming / Chain 0 : CH 6



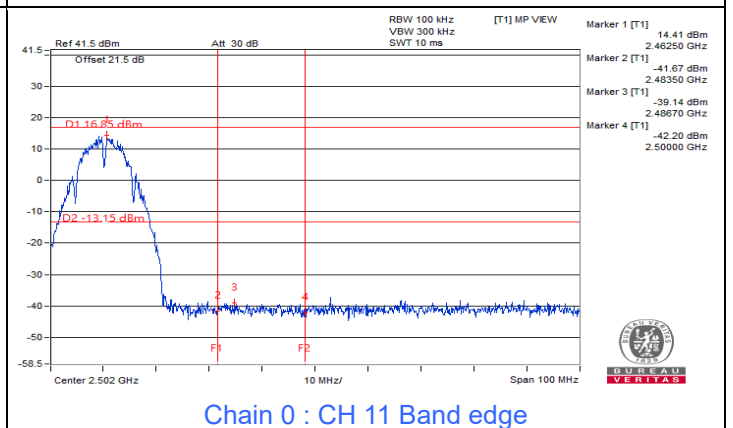
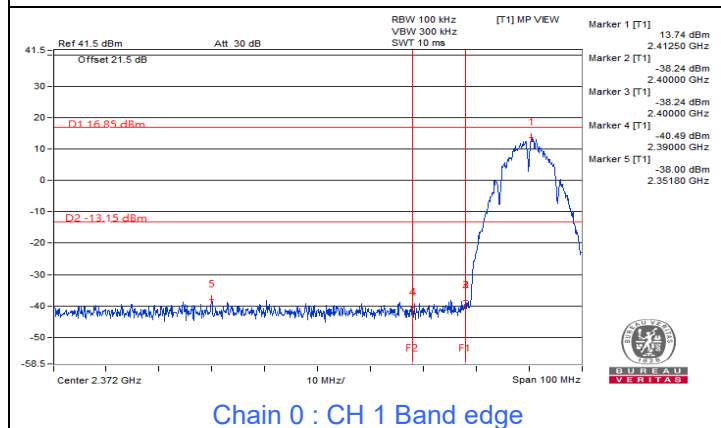
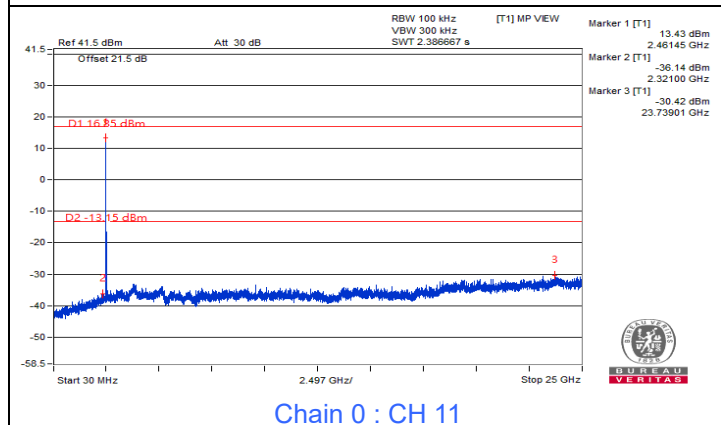
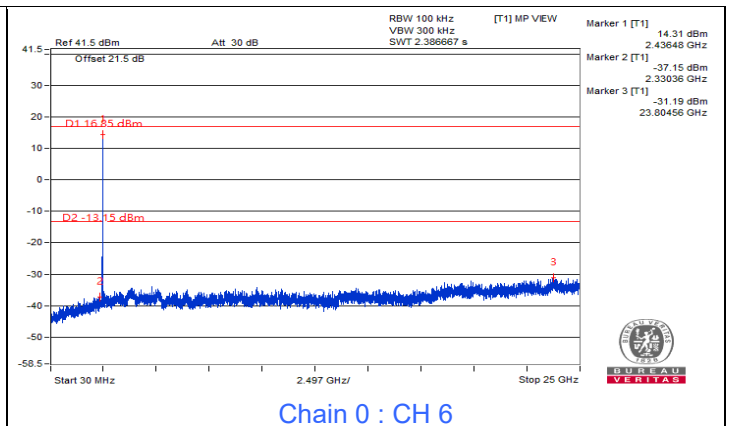
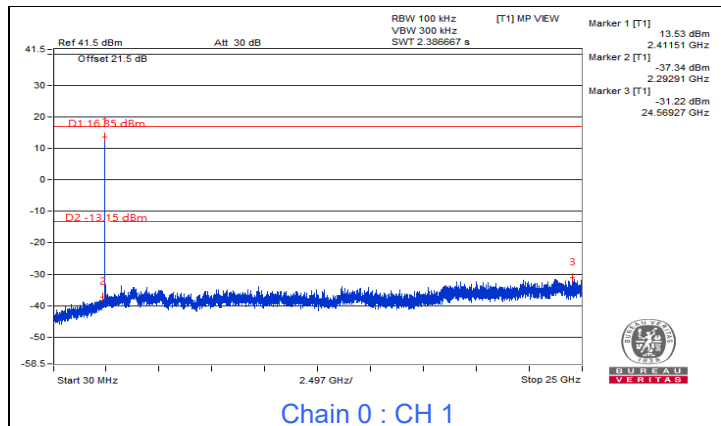
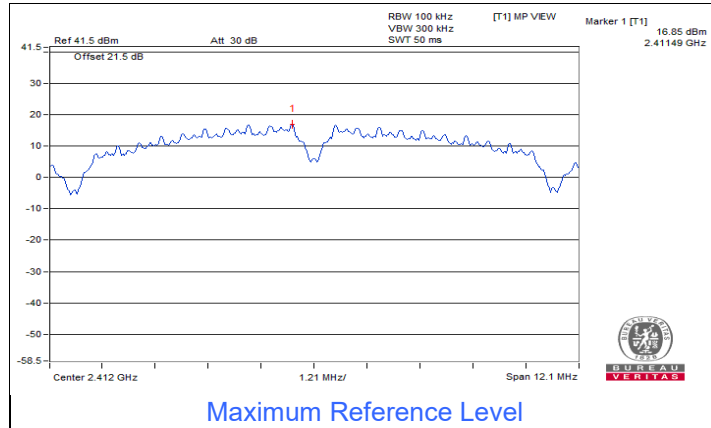
802.11be (EHT40) Beamforming / Chain 1 : CH 3

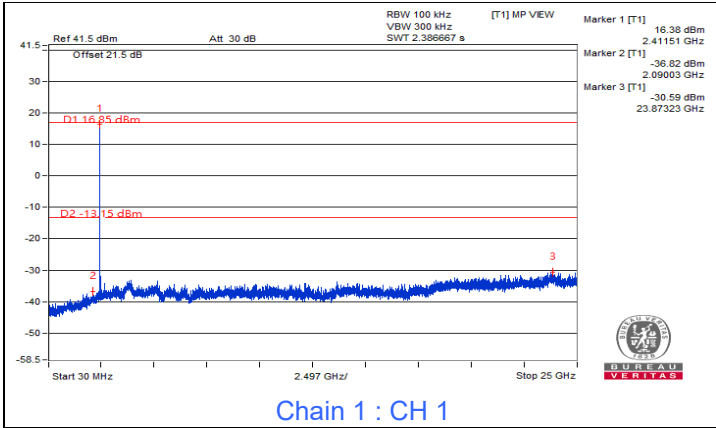


7.4 Conducted Out of Band Emissions

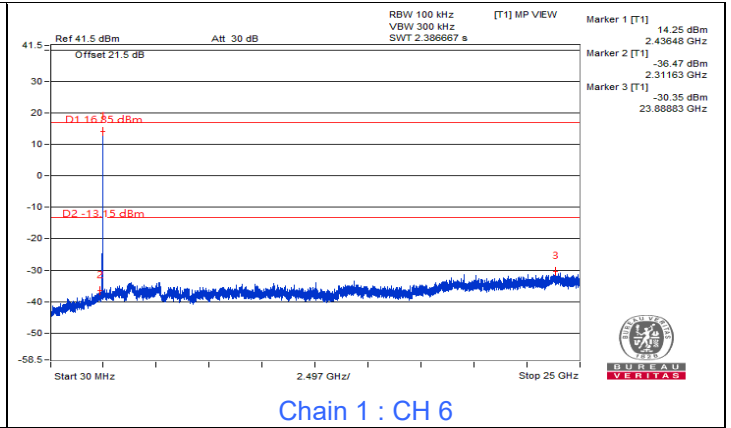
Input Power:	120 Vac	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11b CDD

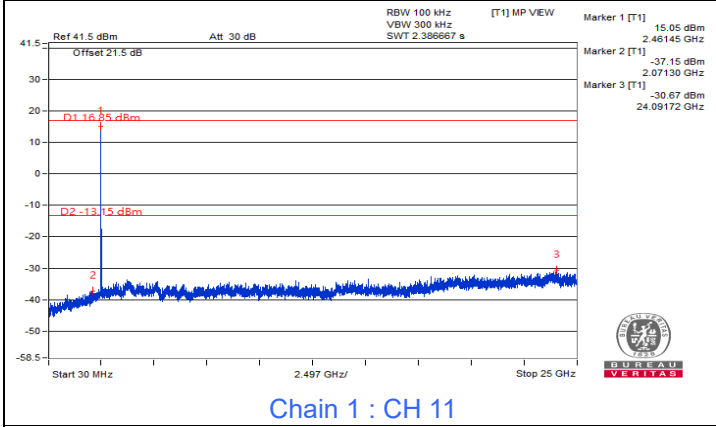




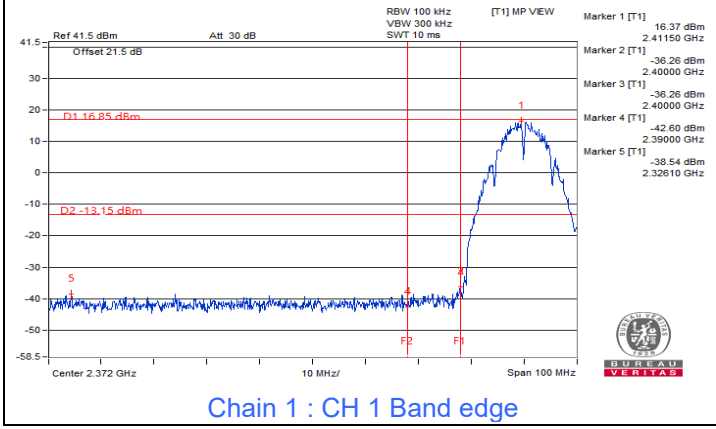
Chain 1 : CH 1



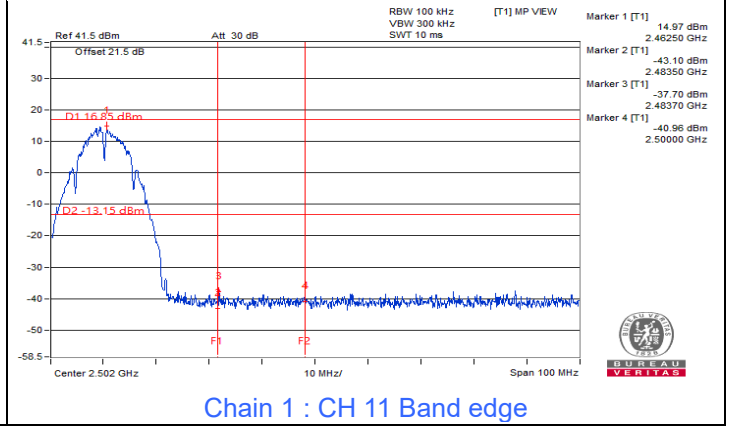
Chain 1 : CH 6



Chain 1 : CH 11



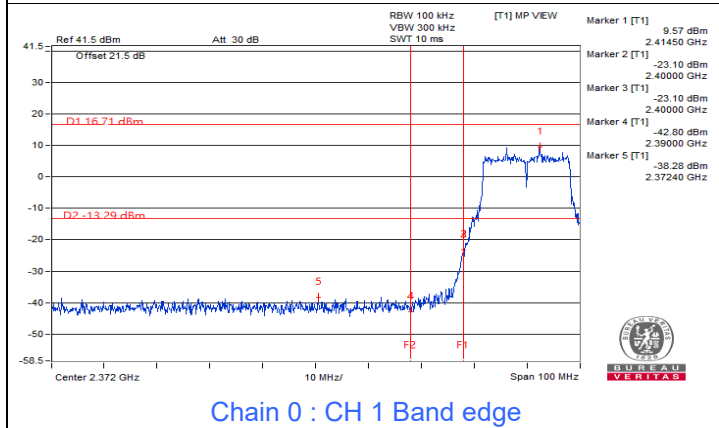
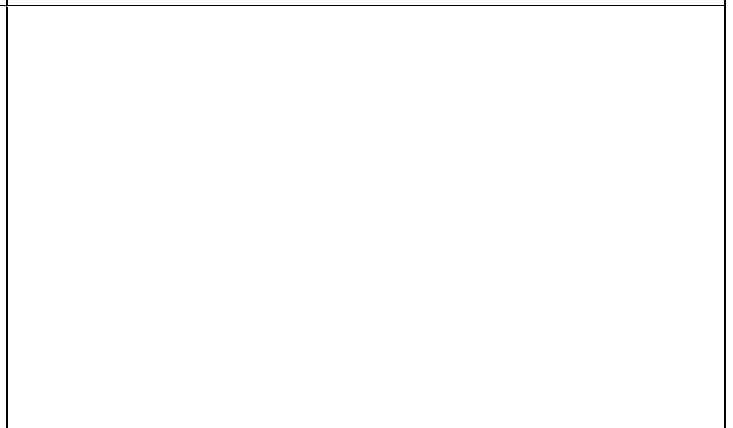
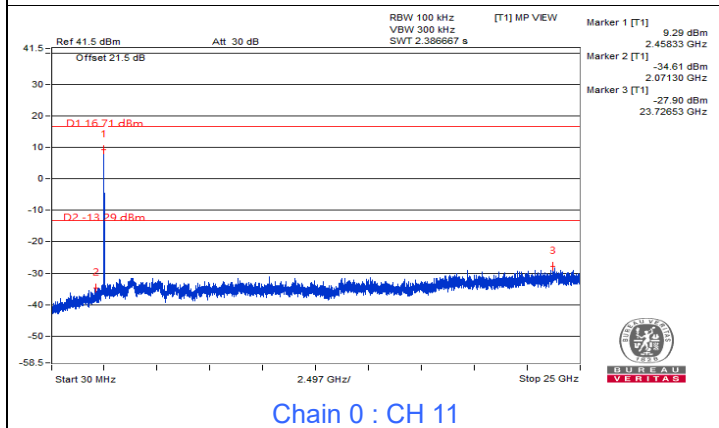
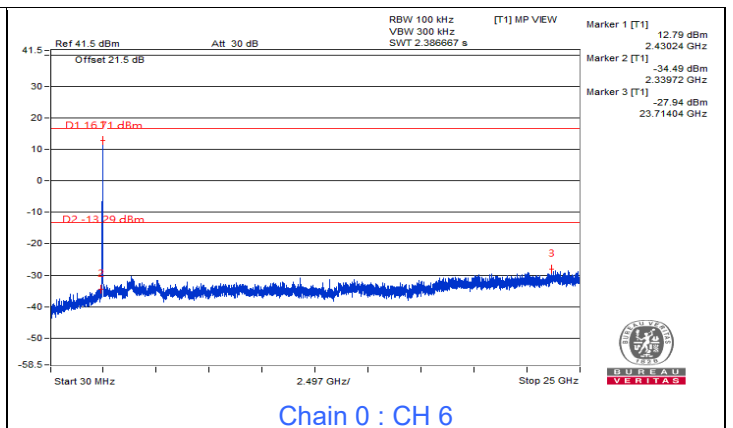
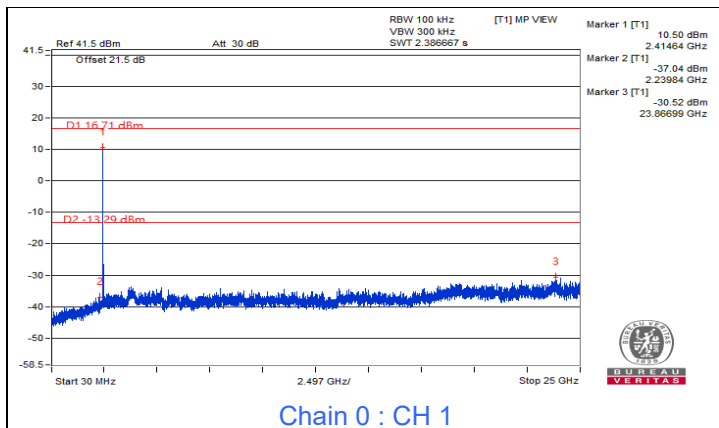
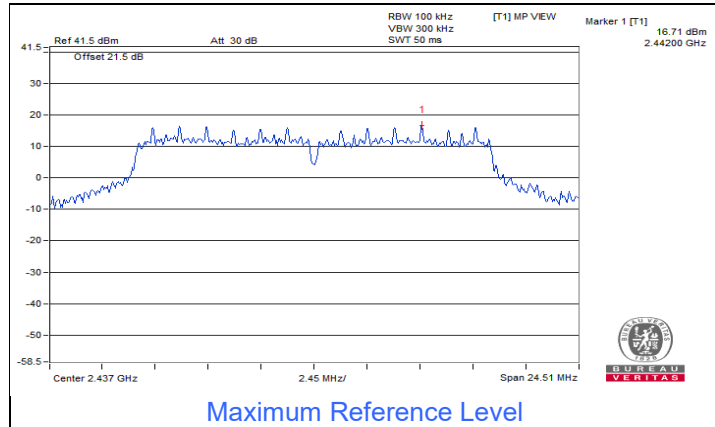
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge

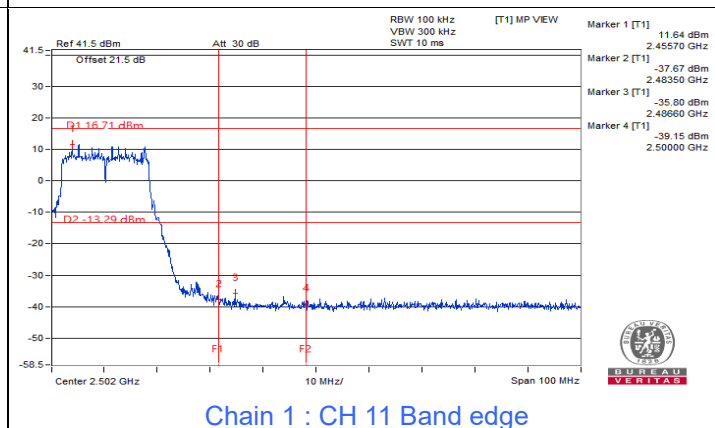
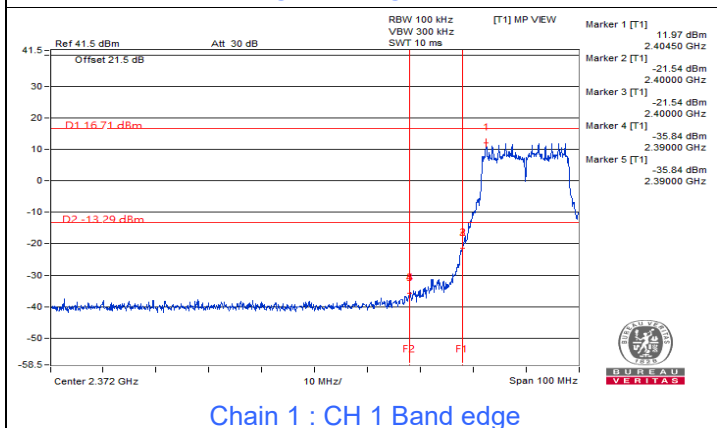
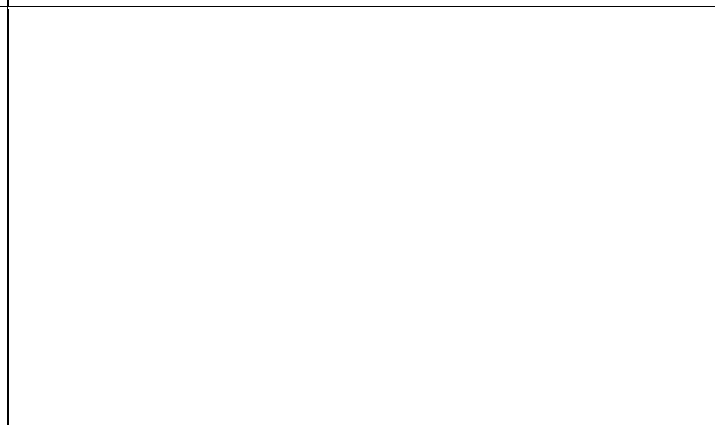
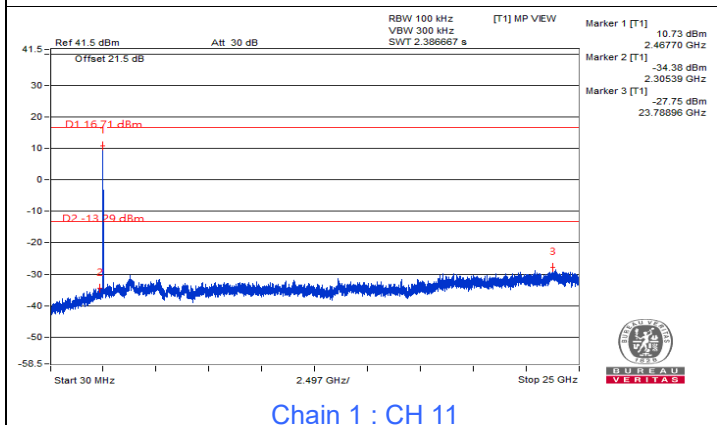
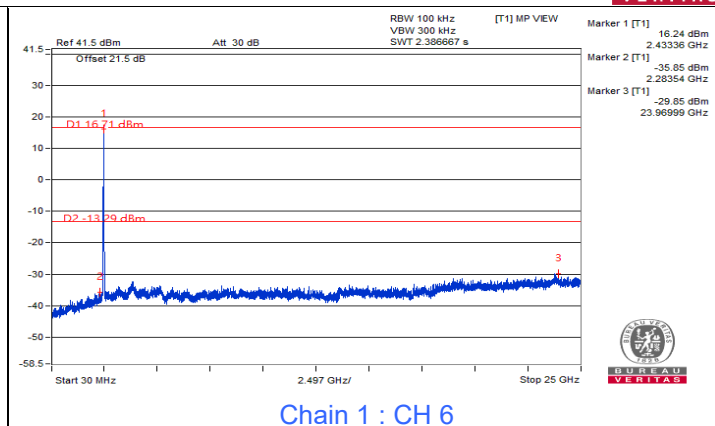
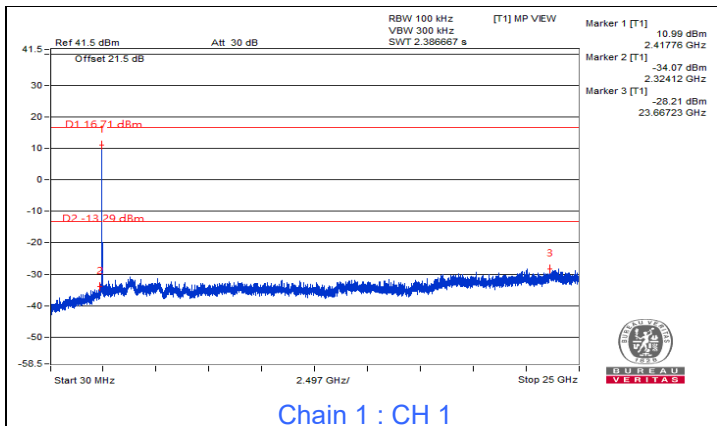


802.11g CDD



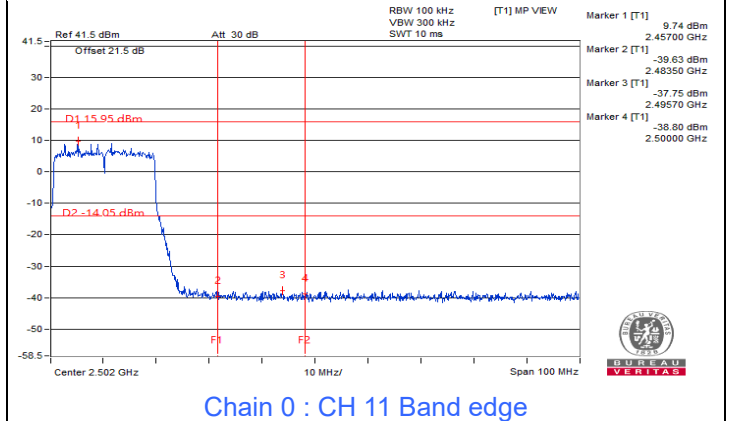
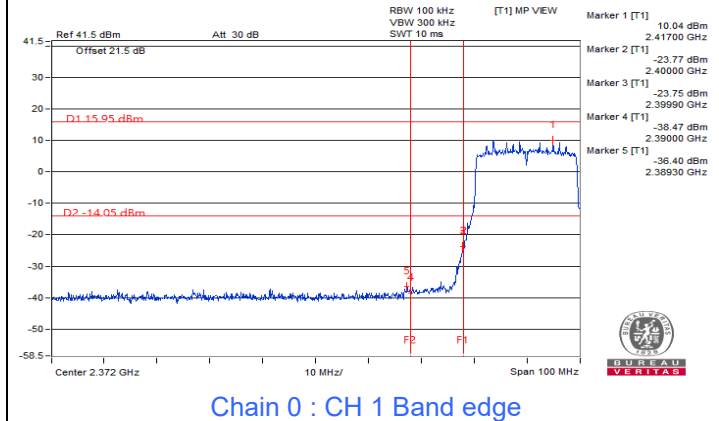
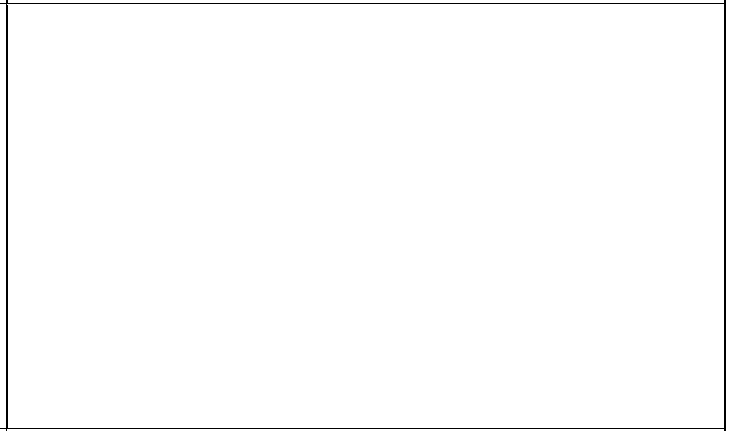
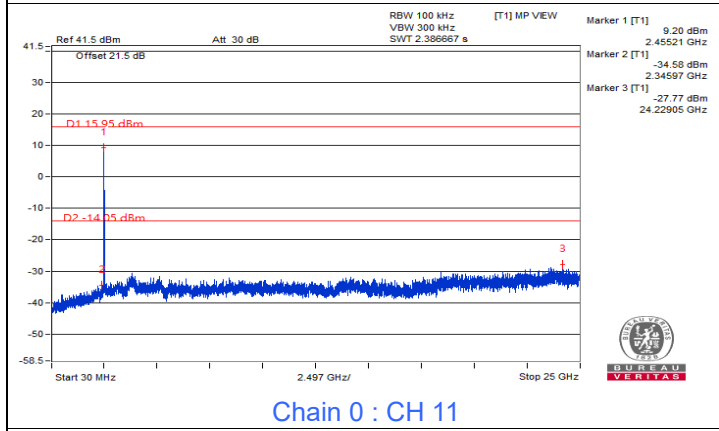
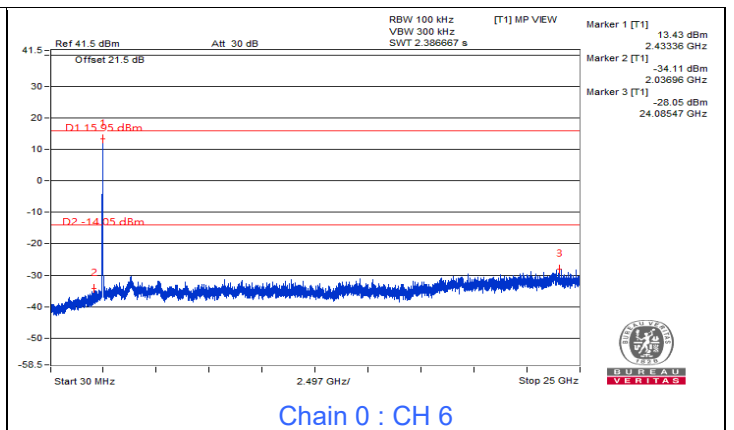
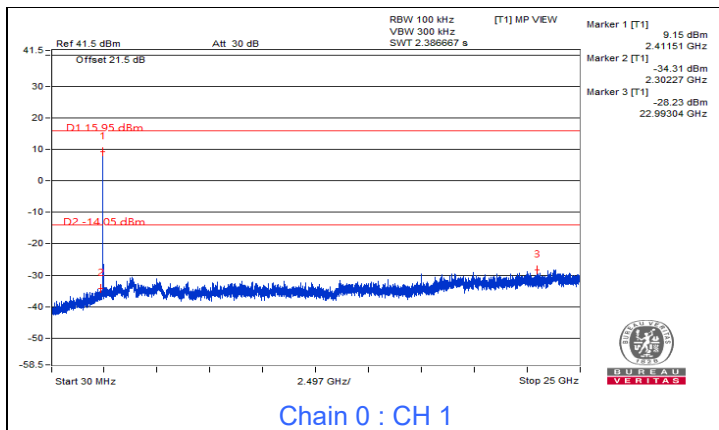
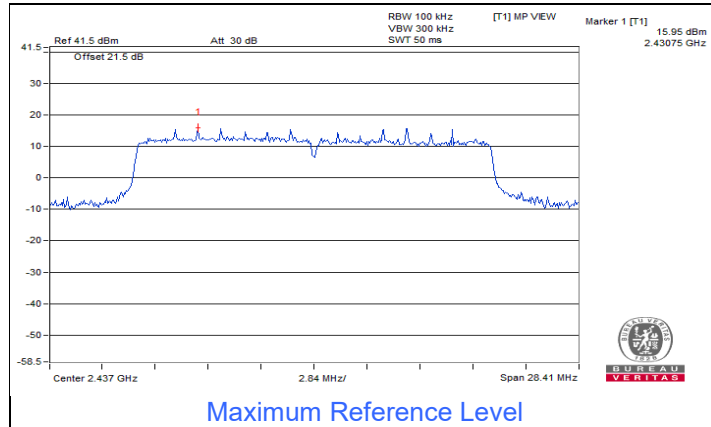


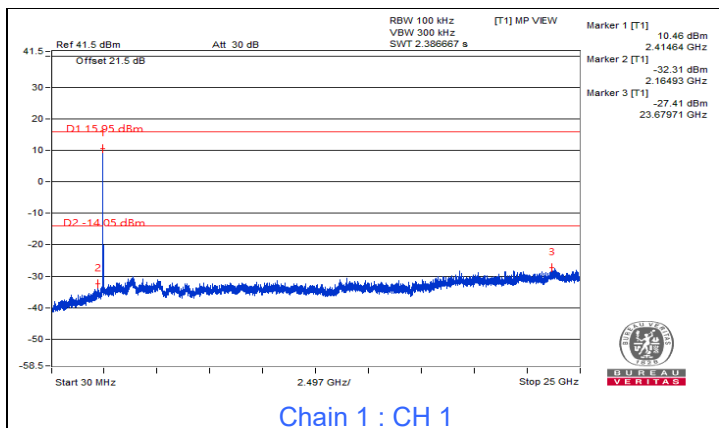
BUREAU VERITAS



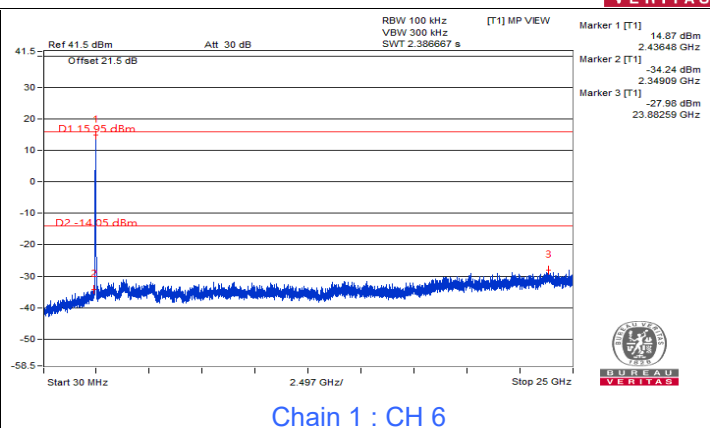


802.11be (EHT20) Beamforming

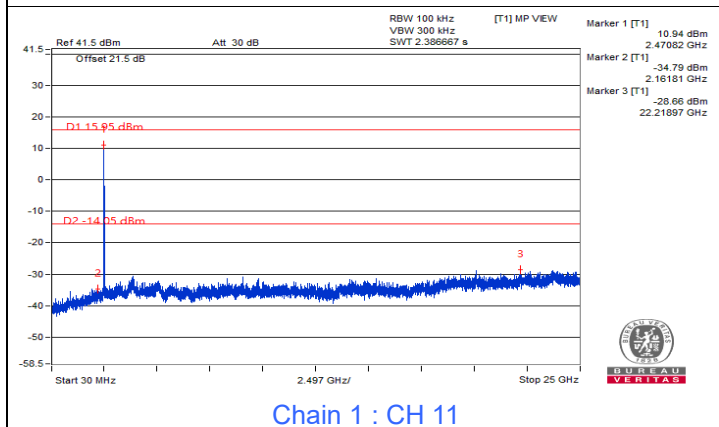




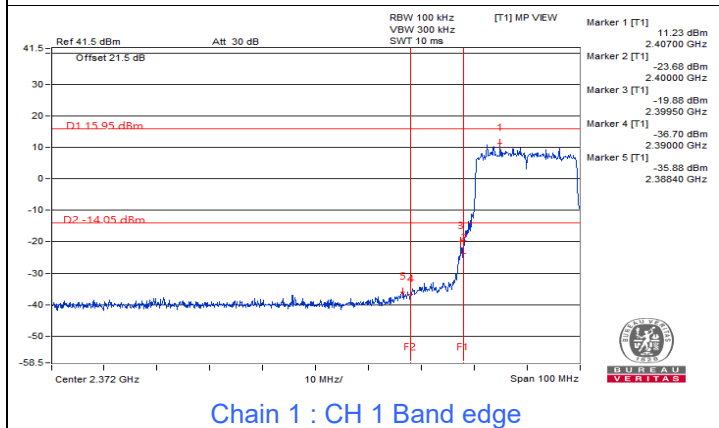
Chain 1 : CH 1



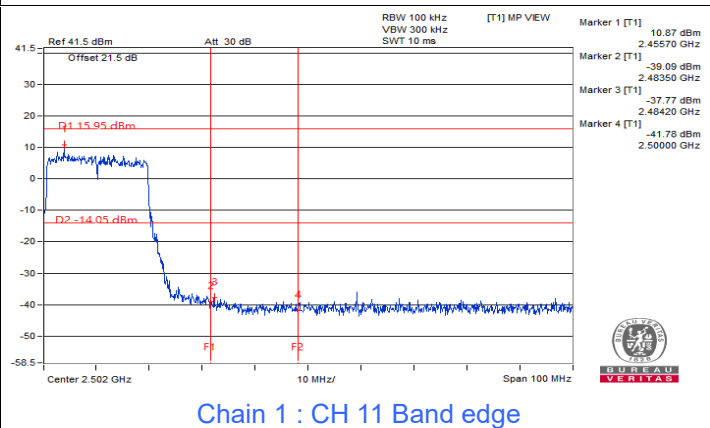
Chain 1 : CH 6



Chain 1 : CH 11



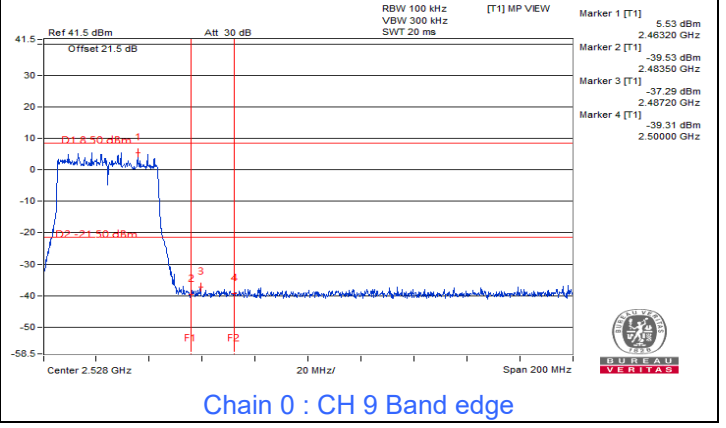
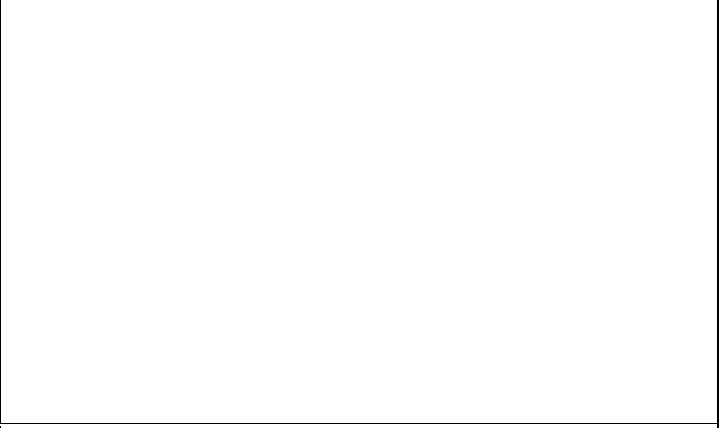
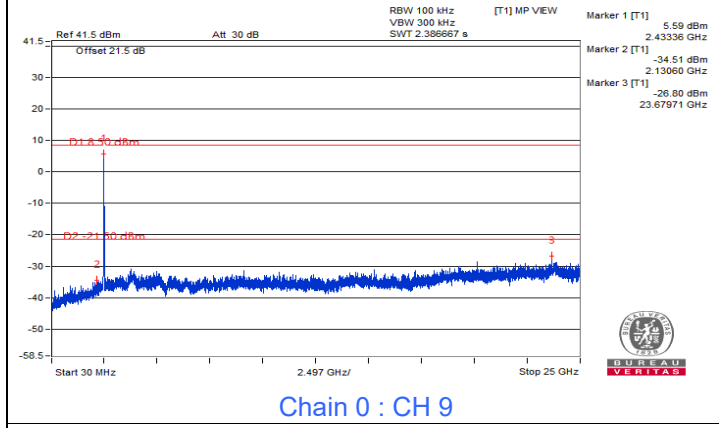
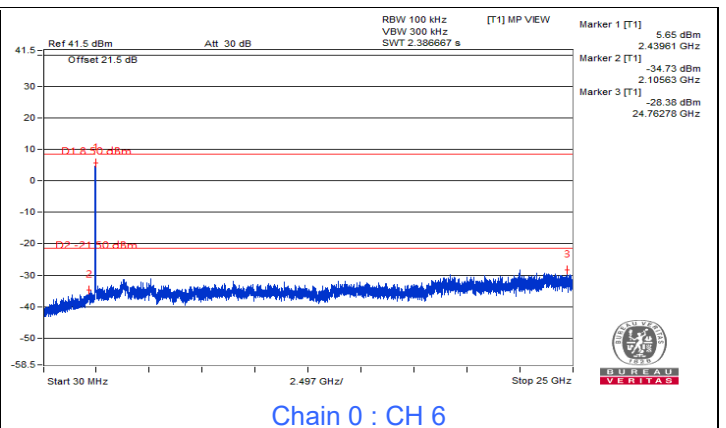
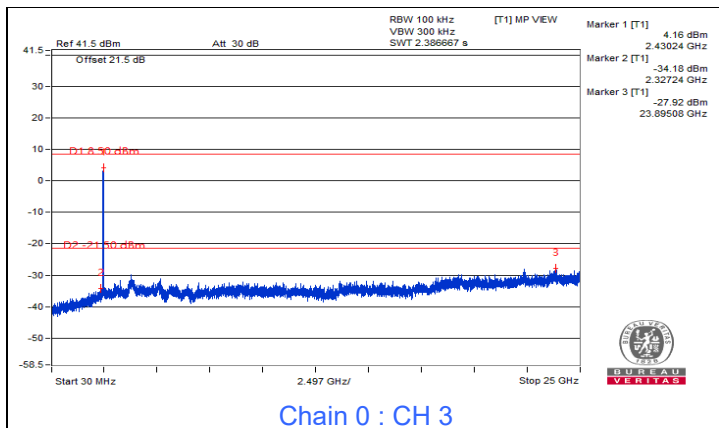
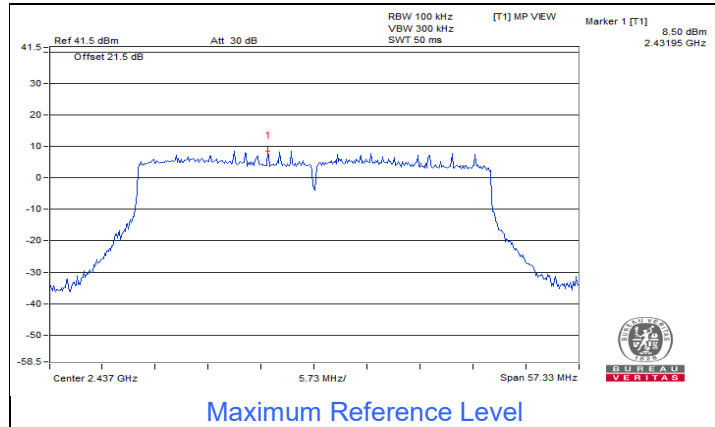
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge

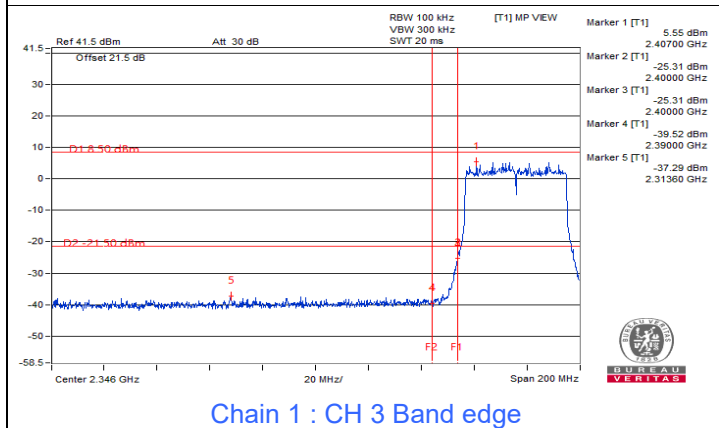
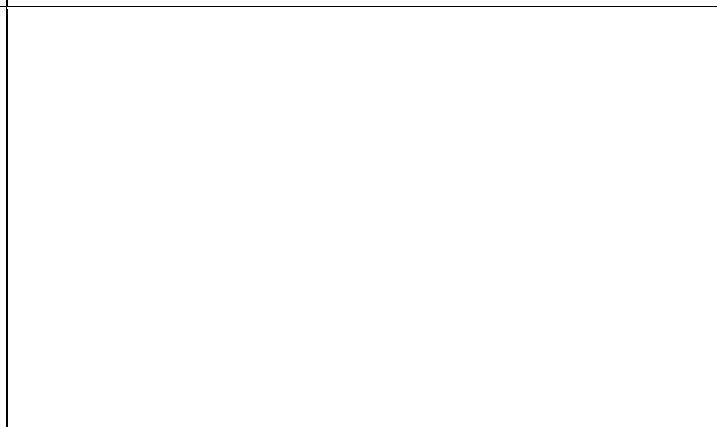
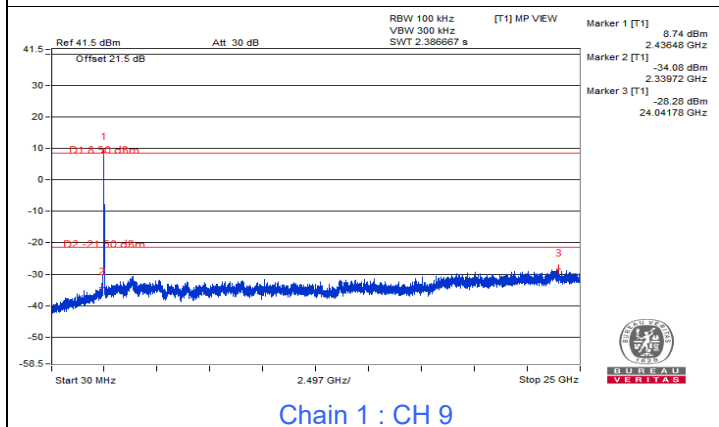
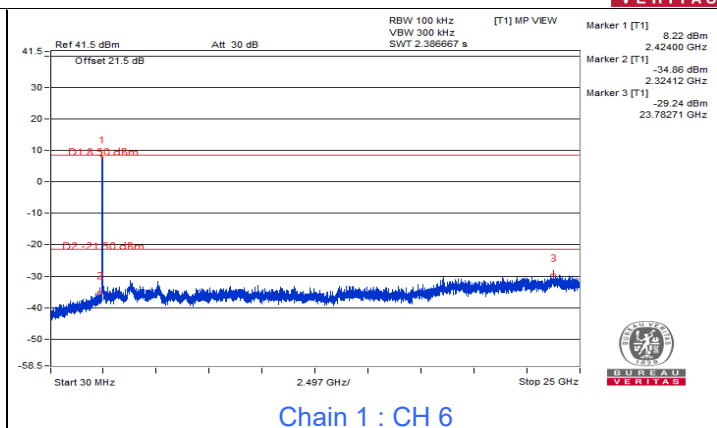
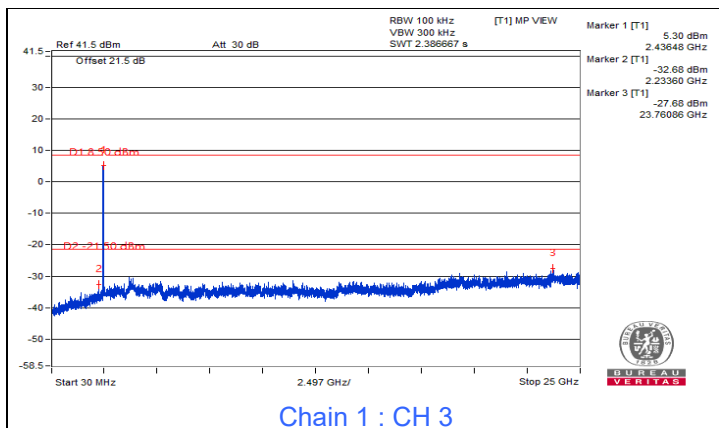


802.11be (EHT40) Beamforming





BUREAU VERITAS



7.5 AC Power Conducted Emissions

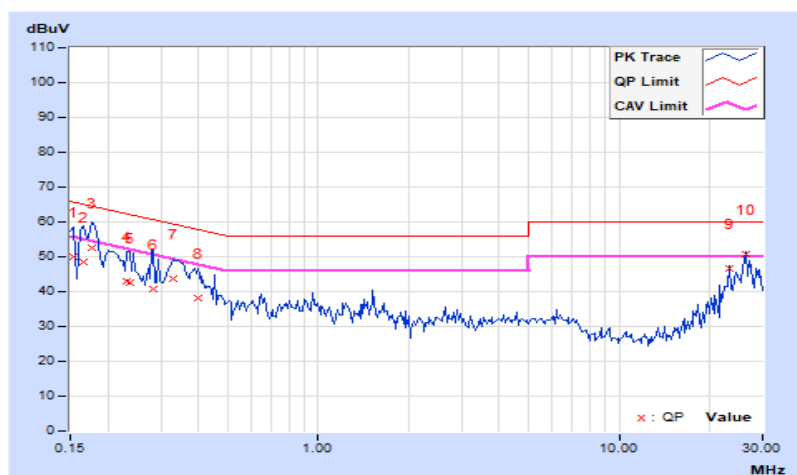
Beamforming

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 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	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	0.15391	10.03	40.14	21.63	50.17	31.66	65.79	55.79	-15.62	-24.13
2	0.16562	10.03	38.67	21.17	48.70	31.20	65.18	55.18	-16.48	-23.98
3	0.17734	10.03	42.66	31.35	52.69	41.38	64.61	54.61	-11.92	-13.23
4	0.23203	10.03	32.75	15.63	42.78	25.66	62.38	52.38	-19.60	-26.72
5	0.23594	10.03	32.43	15.96	42.46	25.99	62.24	52.24	-19.78	-26.25
6	0.28281	10.03	30.57	19.52	40.60	29.55	60.73	50.73	-20.13	-21.18
7	0.32969	10.03	33.58	24.88	43.61	34.91	59.46	49.46	-15.85	-14.55
8	0.40000	10.03	28.08	20.73	38.11	30.76	57.85	47.85	-19.74	-17.09
9	23.12891	11.40	35.35	30.79	46.75	42.19	60.00	50.00	-13.25	-7.81
10	26.48828	11.57	39.04	34.32	50.61	45.89	60.00	50.00	-9.39	-4.11

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

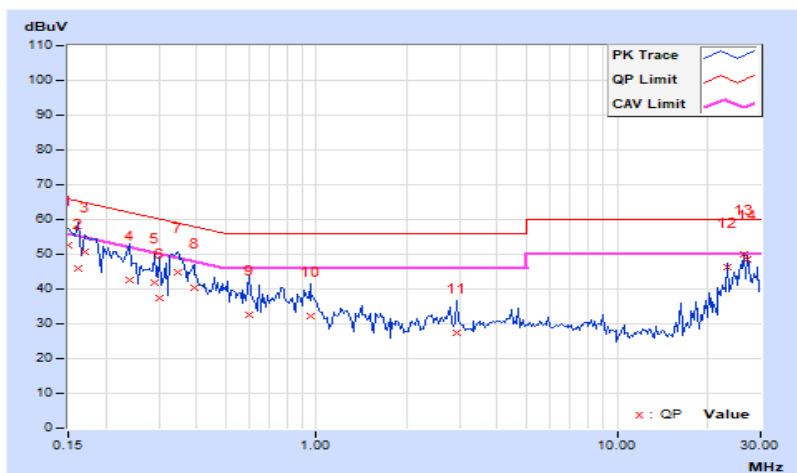


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.02	42.55	26.04	52.57	36.06	66.00	56.00	-13.43	-19.94
2	0.16172	10.03	35.97	16.13	46.00	26.16	65.38	55.38	-19.38	-29.22
3	0.16953	10.03	40.83	23.74	50.86	33.77	64.98	54.98	-14.12	-21.21
4	0.23984	10.03	32.63	17.70	42.66	27.73	62.10	52.10	-19.44	-24.37
5	0.29063	10.03	31.94	17.22	41.97	27.25	60.51	50.51	-18.54	-23.26
6	0.30234	10.03	27.23	12.39	37.26	22.42	60.18	50.18	-22.92	-27.76
7	0.34531	10.03	34.81	27.15	44.84	37.18	59.07	49.07	-14.23	-11.89
8	0.39219	10.03	30.17	22.11	40.20	32.14	58.02	48.02	-17.82	-15.88
9	0.59922	10.04	22.44	16.37	32.48	26.41	56.00	46.00	-23.52	-19.59
10	0.95469	10.05	22.27	16.42	32.32	26.47	56.00	46.00	-23.68	-19.53
11	2.92578	10.14	17.43	11.20	27.57	21.34	56.00	46.00	-28.43	-24.66
12	23.12891	11.06	35.35	30.83	46.41	41.89	60.00	50.00	-13.59	-8.11
13	26.48828	11.15	38.67	34.36	49.82	45.51	60.00	50.00	-10.18	-4.49
14	27.16016	11.17	37.17	32.79	48.34	43.96	60.00	50.00	-11.66	-6.04

Remarks:

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



7.6 Unwanted Emissions below 1 GHz

Beamforming

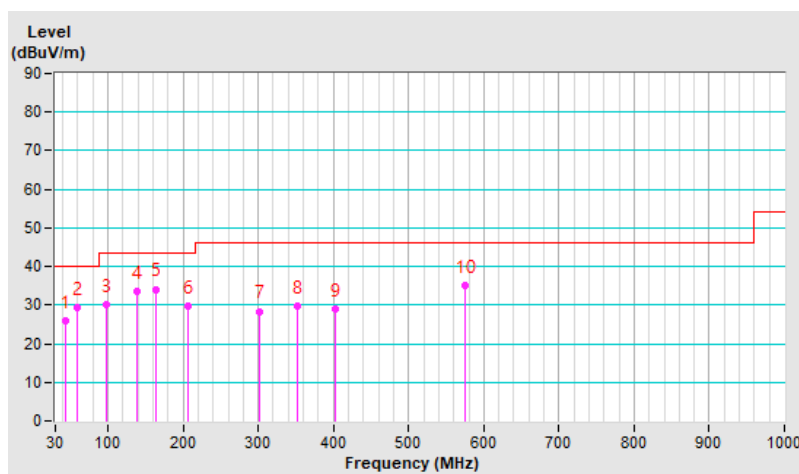
RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 67 % RH
Tested By	Weiwei Lo		

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	43.77	25.9 QP	40.0	-14.1	1.50 H	248	38.6	-12.7
2	58.71	29.4 QP	40.0	-10.6	2.00 H	76	42.5	-13.1
3	98.41	30.0 QP	43.5	-13.5	2.00 H	96	47.2	-17.2
4	138.49	33.7 QP	43.5	-9.8	2.00 H	74	46.7	-13.0
5	163.93	34.1 QP	43.5	-9.4	2.00 H	91	46.8	-12.7
6	206.22	29.6 QP	43.5	-13.9	2.00 H	129	45.5	-15.9
7	302.55	28.4 QP	46.0	-17.6	1.50 H	252	39.8	-11.4
8	352.94	29.6 QP	46.0	-16.4	1.50 H	360	39.8	-10.2
9	402.92	28.9 QP	46.0	-17.1	1.50 H	20	38.1	-9.2
10	575.19	34.9 QP	46.0	-11.1	1.50 H	332	39.9	-5.0

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

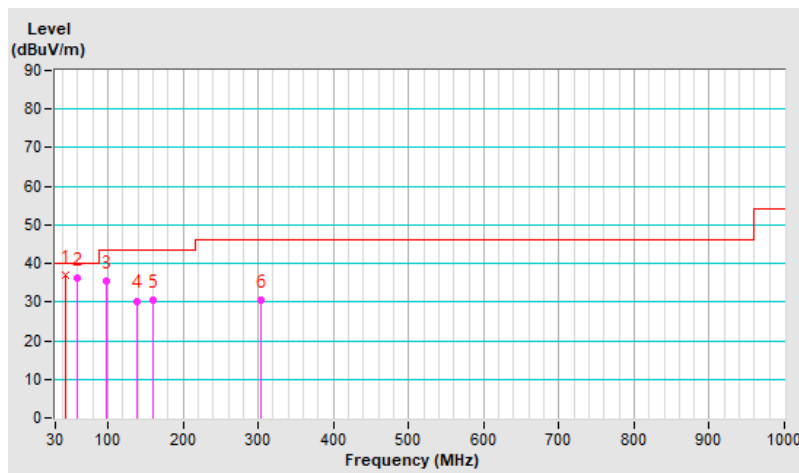


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 67 % RH
Tested By	Weiwei Lo		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	43.79	36.9 QP	40.0	-3.1	1.00 V	137	49.6	-12.7
2	58.74	36.3 QP	40.0	-3.7	1.00 V	278	49.4	-13.1
3	98.43	35.3 QP	43.5	-8.2	1.50 V	52	52.5	-17.2
4	138.45	30.3 QP	43.5	-13.2	2.00 V	75	43.3	-13.0
5	159.66	30.6 QP	43.5	-12.9	1.00 V	73	43.2	-12.6
6	303.18	30.3 QP	46.0	-15.7	1.00 V	44	41.6	-11.3

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

CDD

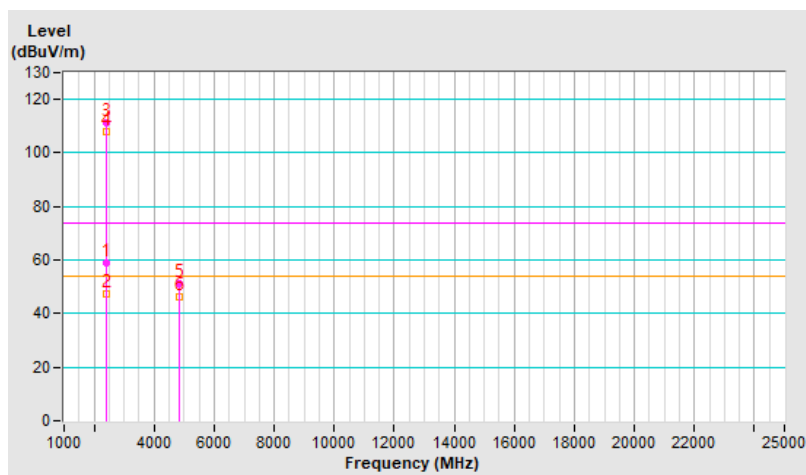
RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2389.10	58.9 PK	74.0	-15.1	1.00 H	43	59.1	-0.2
2	2389.10	47.2 AV	54.0	-6.8	1.00 H	43	47.4	-0.2
3	*2412.00	111.0 PK			1.00 H	43	111.2	-0.2
4	*2412.00	107.7 AV			1.00 H	43	107.9	-0.2
5	4824.00	51.3 PK	74.0	-22.7	1.87 H	196	46.7	4.6
6	4824.00	46.4 AV	54.0	-7.6	1.87 H	196	41.8	4.6

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.

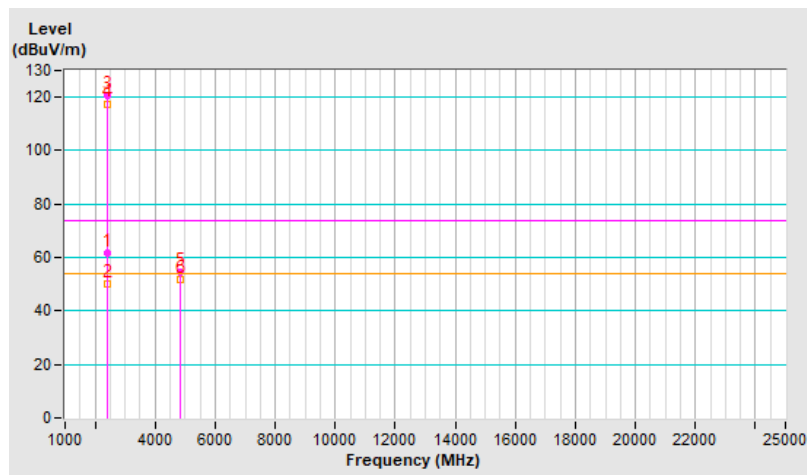


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2389.10	61.8 PK	74.0	-12.2	1.41 V	22	62.0	-0.2
2	2389.10	50.3 AV	54.0	-3.7	1.41 V	22	50.5	-0.2
3	*2412.00	120.6 PK			1.41 V	22	120.8	-0.2
4	*2412.00	117.6 AV			1.41 V	22	117.8	-0.2
5	4824.00	54.4 PK	74.0	-19.6	3.30 V	178	49.8	4.6
6	4824.00	51.7 AV	54.0	-2.3	3.30 V	178	47.1	4.6

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.

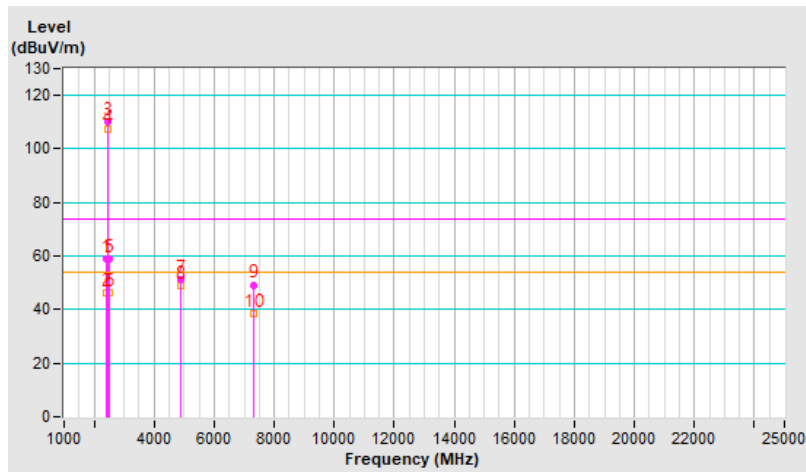


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2388.44	59.1 PK	74.0	-14.9	1.51 H	32	59.3	-0.2
2	2388.44	46.0 AV	54.0	-8.0	1.51 H	32	46.2	-0.2
3	*2437.00	110.4 PK			1.51 H	32	110.4	0.0
4	*2437.00	107.4 AV			1.51 H	32	107.4	0.0
5	2487.46	59.0 PK	74.0	-15.0	1.51 H	32	59.2	-0.2
6	2487.46	46.1 AV	54.0	-7.9	1.51 H	32	46.3	-0.2
7	4874.00	51.3 PK	74.0	-22.7	1.34 H	150	46.7	4.6
8	4874.00	48.8 AV	54.0	-5.2	1.34 H	150	44.2	4.6
9	7311.00	49.3 PK	74.0	-24.7	1.61 H	328	37.8	11.5
10	7311.00	38.7 AV	54.0	-15.3	1.61 H	328	27.2	11.5

Remarks:

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

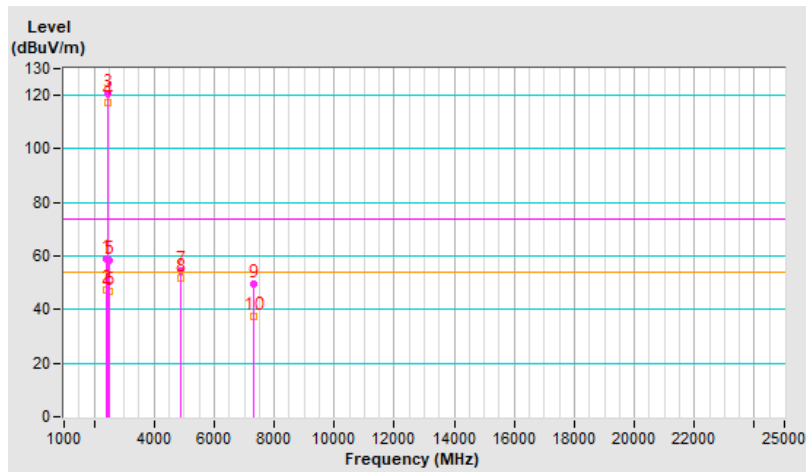


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2388.00	58.8 PK	74.0	-15.2	1.95 V	346	59.0	-0.2
2	2388.00	47.2 AV	54.0	-6.8	1.95 V	346	47.4	-0.2
3	*2437.00	120.7 PK			1.95 V	346	120.7	0.0
4	*2437.00	117.6 AV			1.95 V	346	117.6	0.0
5	2485.21	58.2 PK	74.0	-15.8	1.95 V	346	58.3	-0.1
6	2485.21	46.7 AV	54.0	-7.3	1.95 V	346	46.8	-0.1
7	4874.00	54.5 PK	74.0	-19.5	1.89 V	279	49.9	4.6
8	4874.00	51.7 AV	54.0	-2.3	1.89 V	279	47.1	4.6
9	7311.00	49.7 PK	74.0	-24.3	2.54 V	158	38.2	11.5
10	7311.00	37.6 AV	54.0	-16.4	2.54 V	158	26.1	11.5

Remarks:

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

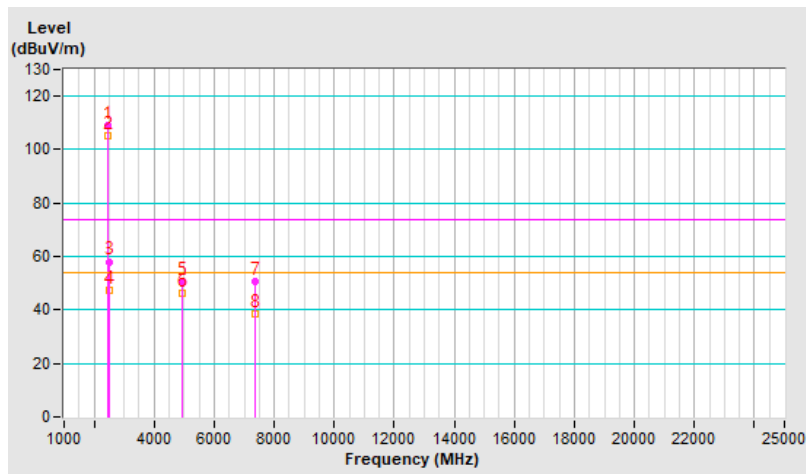


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	109.1 PK			1.51 H	31	109.2	-0.1
2	*2462.00	105.0 AV			1.51 H	31	105.1	-0.1
3	2483.50	58.1 PK	74.0	-15.9	1.51 H	31	58.2	-0.1
4	2483.50	47.3 AV	54.0	-6.7	1.51 H	31	47.4	-0.1
5	4924.00	50.9 PK	74.0	-23.1	1.33 H	150	46.2	4.7
6	4924.00	46.5 AV	54.0	-7.5	1.33 H	150	41.8	4.7
7	7386.00	50.5 PK	74.0	-23.5	1.65 H	341	38.4	12.1
8	7386.00	38.6 AV	54.0	-15.4	1.65 H	341	26.5	12.1

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.

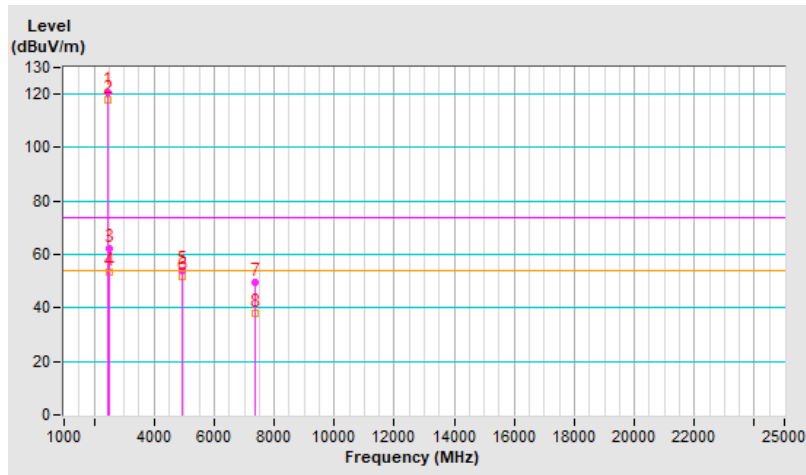


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	120.9 PK			1.05 V	345	121.0	-0.1
2	*2462.00	117.7 AV			1.05 V	345	117.8	-0.1
3	2483.50	62.4 PK	74.0	-11.6	1.05 V	345	62.5	-0.1
4	2483.50	53.4 AV	54.0	-0.6	1.05 V	345	53.5	-0.1
5	4924.00	54.0 PK	74.0	-20.0	1.90 V	269	49.3	4.7
6	4924.00	51.6 AV	54.0	-2.4	1.90 V	269	46.9	4.7
7	7386.00	49.4 PK	74.0	-24.6	2.56 V	159	37.3	12.1
8	7386.00	37.9 AV	54.0	-16.1	2.56 V	159	25.8	12.1

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.



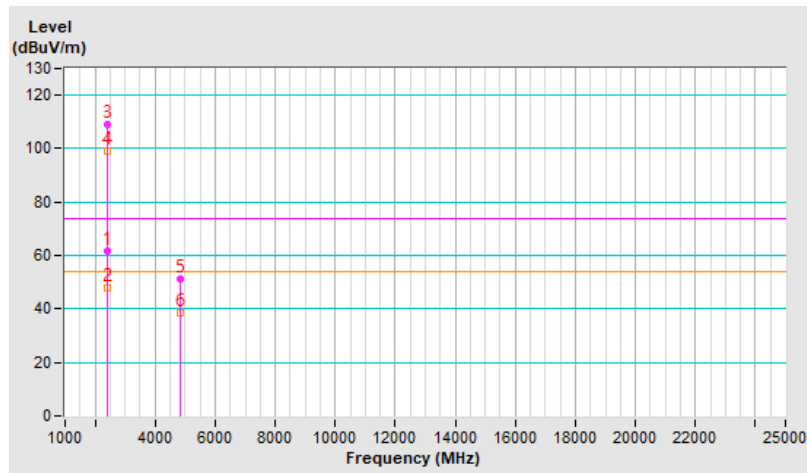
RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	61.9 PK	74.0	-12.1	1.00 H	43	62.1	-0.2
2	2390.00	48.1 AV	54.0	-5.9	1.00 H	43	48.3	-0.2
3	*2412.00	109.3 PK			1.00 H	43	109.5	-0.2
4	*2412.00	99.2 AV			1.00 H	43	99.4	-0.2
5	4824.00	51.3 PK	74.0	-22.7	2.16 H	144	46.7	4.6
6	4824.00	38.4 AV	54.0	-15.6	2.16 H	144	33.8	4.6

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.

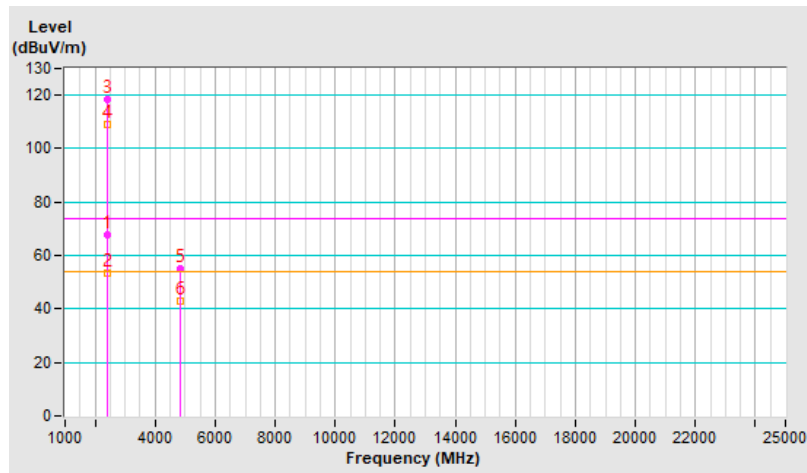


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	67.8 PK	74.0	-6.2	1.01 V	342	68.0	-0.2
2	2390.00	53.5 AV	54.0	-0.5	1.01 V	342	53.7	-0.2
3	*2412.00	118.4 PK			1.01 V	342	118.6	-0.2
4	*2412.00	109.1 AV			1.01 V	342	109.3	-0.2
5	4824.00	55.2 PK	74.0	-18.8	2.02 V	290	50.6	4.6
6	4824.00	42.9 AV	54.0	-11.1	2.02 V	290	38.3	4.6

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.



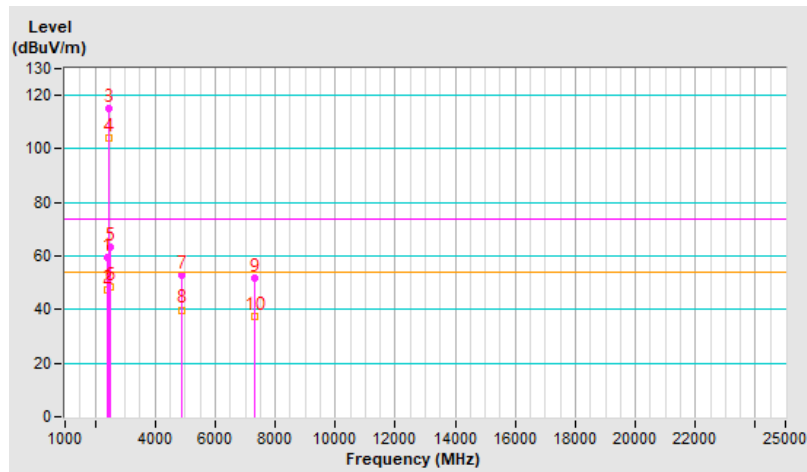
RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	59.6 PK	74.0	-14.4	1.46 H	66	59.8	-0.2
2	2390.00	47.6 AV	54.0	-6.4	1.46 H	66	47.8	-0.2
3	*2437.00	114.9 PK			1.46 H	66	114.9	0.0
4	*2437.00	104.3 AV			1.46 H	66	104.3	0.0
5	2483.50	63.5 PK	74.0	-10.5	1.46 H	66	63.6	-0.1
6	2483.50	48.5 AV	54.0	-5.5	1.46 H	66	48.6	-0.1
7	4874.00	52.9 PK	74.0	-21.1	2.18 H	146	48.3	4.6
8	4874.00	39.9 AV	54.0	-14.1	2.18 H	146	35.3	4.6
9	7311.00	51.7 PK	74.0	-22.3	1.55 H	211	40.2	11.5
10	7311.00	37.6 AV	54.0	-16.4	1.55 H	211	26.1	11.5

Remarks:

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

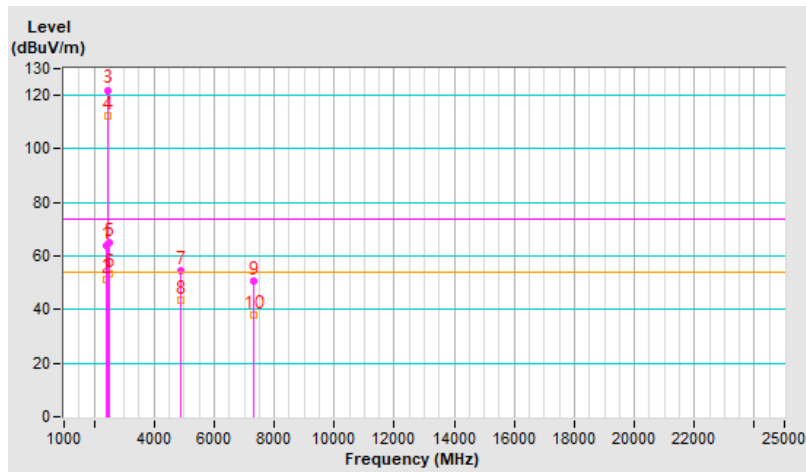


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	63.7 PK	74.0	-10.3	1.45 V	338	63.9	-0.2
2	2390.00	51.4 AV	54.0	-2.6	1.45 V	338	51.6	-0.2
3	*2437.00	122.0 PK			1.45 V	338	122.0	0.0
4	*2437.00	112.3 AV			1.45 V	338	112.3	0.0
5	2483.50	64.8 PK	74.0	-9.2	1.45 V	338	64.9	-0.1
6	2483.50	53.2 AV	54.0	-0.8	1.45 V	338	53.3	-0.1
7	4874.00	54.7 PK	74.0	-19.3	1.97 V	279	50.1	4.6
8	4874.00	43.7 AV	54.0	-10.3	1.97 V	279	39.1	4.6
9	7311.00	50.6 PK	74.0	-23.4	1.55 V	200	39.1	11.5
10	7311.00	37.8 AV	54.0	-16.2	1.55 V	200	26.3	11.5

Remarks:

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

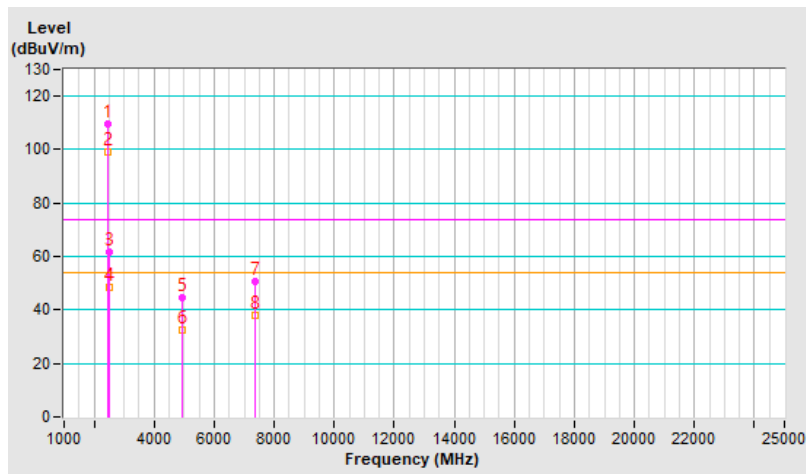


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	109.5 PK			1.13 H	32	109.6	-0.1
2	*2462.00	98.9 AV			1.13 H	32	99.0	-0.1
3	2483.50	61.8 PK	74.0	-12.2	1.13 H	32	61.9	-0.1
4	2483.50	48.3 AV	54.0	-5.7	1.13 H	32	48.4	-0.1
5	4924.00	44.6 PK	74.0	-29.4	2.15 H	160	39.9	4.7
6	4924.00	32.5 AV	54.0	-21.5	2.15 H	160	27.8	4.7
7	7386.00	50.8 PK	74.0	-23.2	1.50 H	285	38.7	12.1
8	7386.00	37.9 AV	54.0	-16.1	1.50 H	285	25.8	12.1

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.

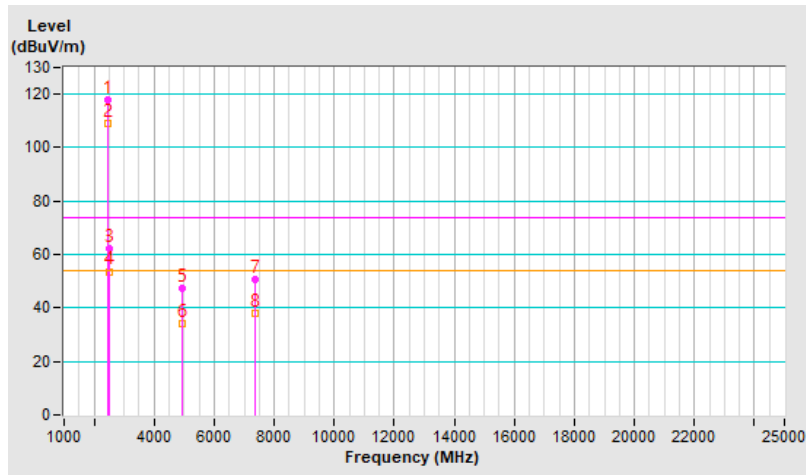


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	118.0 PK			1.04 V	343	118.1	-0.1
2	*2462.00	108.8 AV			1.04 V	343	108.9	-0.1
3	2483.50	62.1 PK	74.0	-11.9	1.04 V	343	62.2	-0.1
4	2483.50	53.7 AV	54.0	-0.3	1.04 V	343	53.8	-0.1
5	4924.00	47.4 PK	74.0	-26.6	2.11 V	332	42.7	4.7
6	4924.00	34.2 AV	54.0	-19.8	2.11 V	332	29.5	4.7
7	7386.00	50.7 PK	74.0	-23.3	1.52 V	168	38.6	12.1
8	7386.00	37.8 AV	54.0	-16.2	1.52 V	168	25.7	12.1

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.



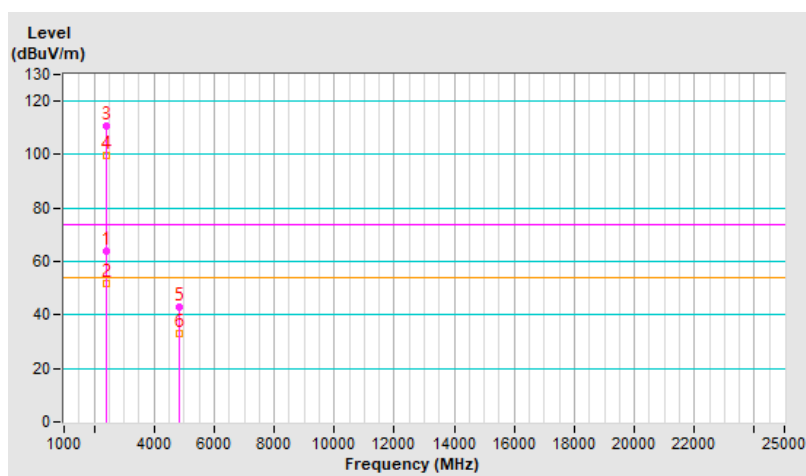
Beamforming

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	63.8 PK	74.0	-10.2	1.24 H	286	64.0	-0.2
2	2390.00	52.0 AV	54.0	-2.0	1.24 H	286	52.2	-0.2
3	*2412.00	110.8 PK			1.24 H	286	111.0	-0.2
4	*2412.00	99.5 AV			1.24 H	286	99.7	-0.2
5	4824.00	43.0 PK	74.0	-31.0	1.31 H	128	38.4	4.6
6	4824.00	32.8 AV	54.0	-21.2	1.31 H	128	28.2	4.6

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.

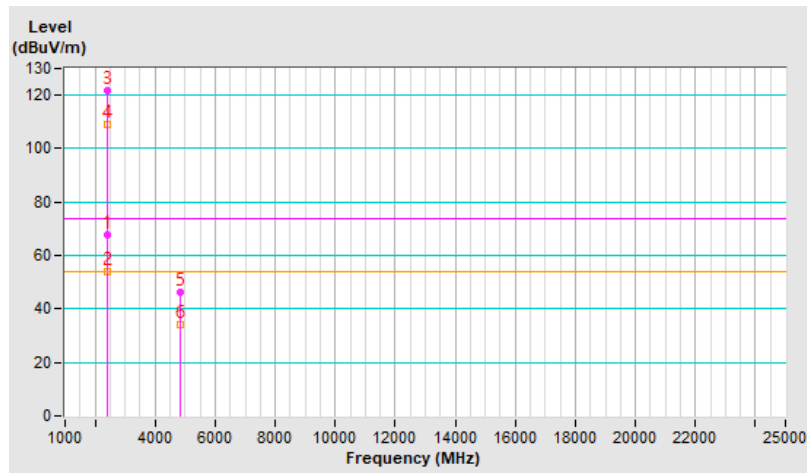


RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	67.9 PK	74.0	-6.1	1.19 V	25	68.1	-0.2
2	2390.00	53.9 AV	54.0	-0.1	1.19 V	25	54.1	-0.2
3	*2412.00	121.6 PK			1.49 V	6	121.8	-0.2
4	*2412.00	108.9 AV			1.49 V	6	109.1	-0.2
5	4824.00	46.1 PK	74.0	-27.9	1.49 V	20	41.5	4.6
6	4824.00	34.2 AV	54.0	-19.8	1.49 V	20	29.6	4.6

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.



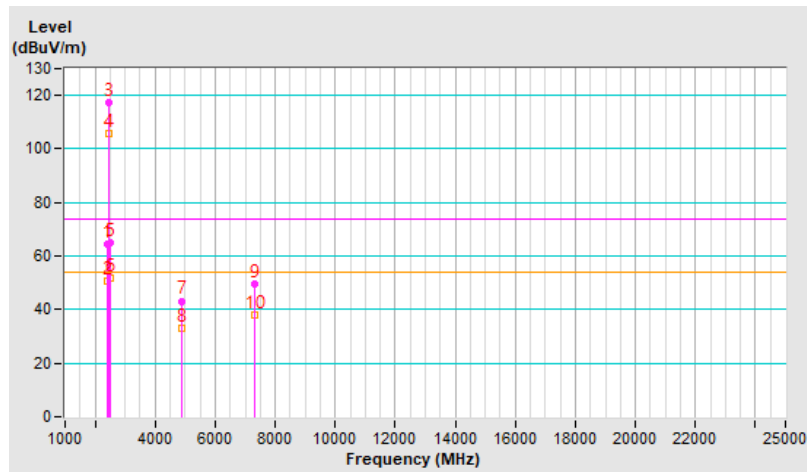
RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	64.3 PK	74.0	-9.7	1.24 H	287	64.5	-0.2
2	2390.00	50.9 AV	54.0	-3.1	1.24 H	287	51.1	-0.2
3	*2437.00	117.5 PK			1.24 H	287	117.5	0.0
4	*2437.00	105.6 AV			1.24 H	287	105.6	0.0
5	2483.50	65.2 PK	74.0	-8.8	1.24 H	287	65.3	-0.1
6	2483.50	51.6 AV	54.0	-2.4	1.24 H	287	51.7	-0.1
7	4874.00	43.2 PK	74.0	-30.8	1.32 H	125	38.6	4.6
8	4874.00	33.2 AV	54.0	-20.8	1.32 H	125	28.6	4.6
9	7311.00	49.8 PK	74.0	-24.2	1.50 H	256	38.3	11.5
10	7311.00	37.9 AV	54.0	-16.1	1.50 H	256	26.4	11.5

Remarks:

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

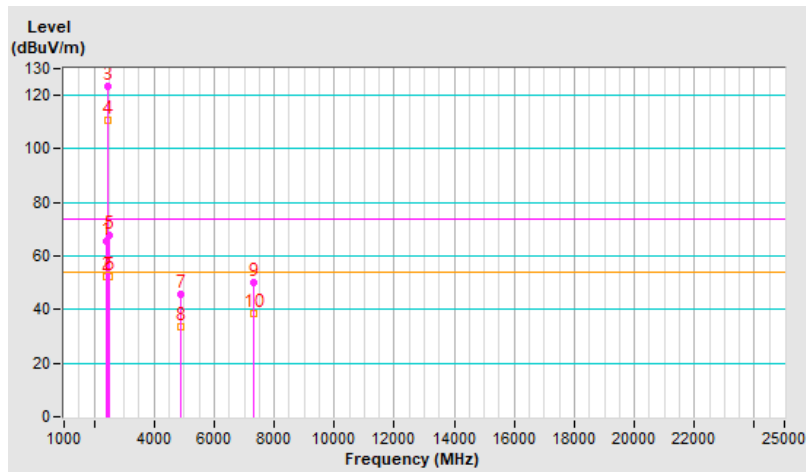


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	65.3 PK	74.0	-8.7	1.56 V	346	65.5	-0.2
2	2390.00	52.5 AV	54.0	-1.5	1.56 V	346	52.7	-0.2
3	*2437.00	123.2 PK			1.55 V	1	123.2	0.0
4	*2437.00	110.5 AV			1.55 V	1	110.5	0.0
5	2483.50	67.6 PK	74.0	-6.4	1.56 V	346	67.7	-0.1
6	2483.50	52.4 AV	54.0	-1.6	1.56 V	346	52.5	-0.1
7	4874.00	45.8 PK	74.0	-28.2	1.43 V	34	41.2	4.6
8	4874.00	33.7 AV	54.0	-20.3	1.43 V	34	29.1	4.6
9	7311.00	50.0 PK	74.0	-24.0	1.50 V	256	38.5	11.5
10	7311.00	38.3 AV	54.0	-15.7	1.50 V	256	26.8	11.5

Remarks:

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

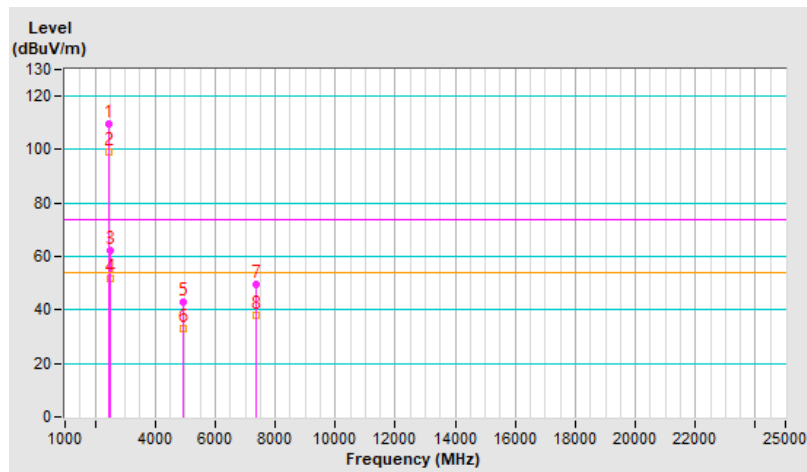


RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	109.8 PK			1.24 H	286	109.9	-0.1
2	*2462.00	99.2 AV			1.24 H	286	99.3	-0.1
3	2483.50	62.1 PK	74.0	-11.9	1.24 H	286	62.2	-0.1
4	2483.50	51.8 AV	54.0	-2.2	1.24 H	286	51.9	-0.1
5	4924.00	43.0 PK	74.0	-31.0	1.37 H	112	38.3	4.7
6	4924.00	33.1 AV	54.0	-20.9	1.37 H	112	28.4	4.7
7	7386.00	49.6 PK	74.0	-24.4	1.54 H	242	37.5	12.1
8	7386.00	38.0 AV	54.0	-16.0	1.54 H	242	25.9	12.1

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.

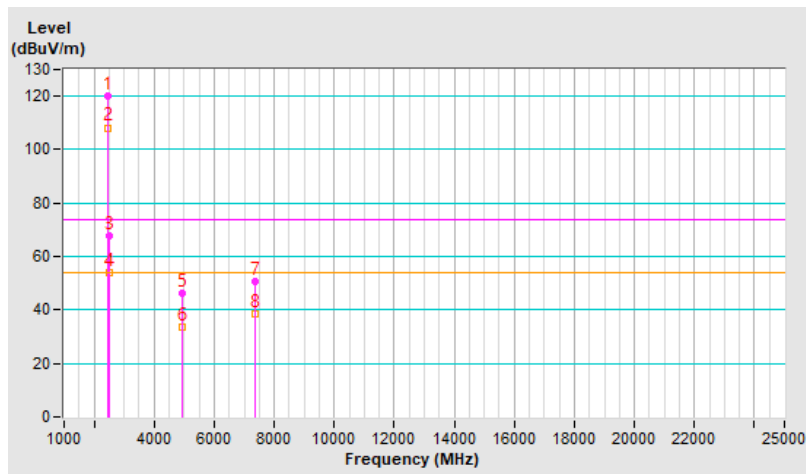


RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2462.00	120.3 PK			1.52 V	3	120.4	-0.1
2	*2462.00	108.2 AV			1.52 V	3	108.3	-0.1
3	2483.50	67.5 PK	74.0	-6.5	1.52 V	3	67.6	-0.1
4	2483.50	53.9 AV	54.0	-0.1	1.52 V	3	54.0	-0.1
5	4924.00	46.0 PK	74.0	-28.0	1.40 V	34	41.3	4.7
6	4924.00	33.8 AV	54.0	-20.2	1.40 V	34	29.1	4.7
7	7386.00	50.5 PK	74.0	-23.5	1.55 V	269	38.4	12.1
8	7386.00	38.6 AV	54.0	-15.4	1.55 V	269	26.5	12.1

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.

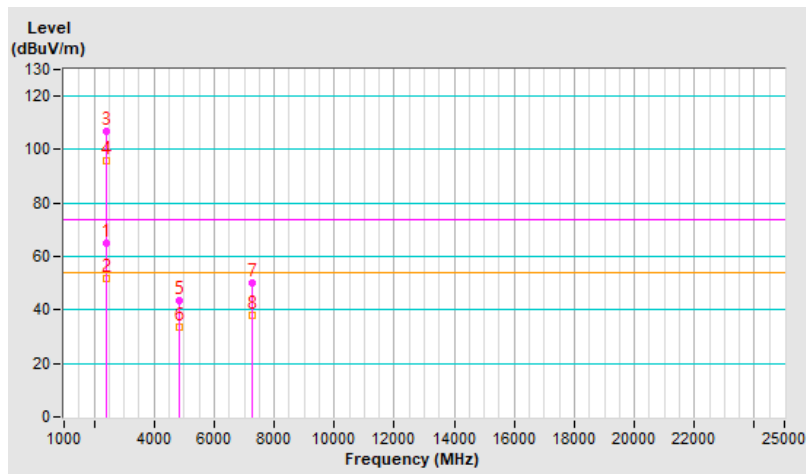


RF Mode	802.11be (EHT40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	64.9 PK	74.0	-9.1	1.14 H	33	65.1	-0.2
2	2390.00	51.8 AV	54.0	-2.2	1.14 H	33	52.0	-0.2
3	*2422.00	106.6 PK			1.14 H	33	106.6	0.0
4	*2422.00	95.6 AV			1.14 H	33	95.6	0.0
5	4844.00	43.3 PK	74.0	-30.7	1.36 H	116	38.7	4.6
6	4844.00	33.6 AV	54.0	-20.4	1.36 H	116	29.0	4.6
7	7266.00	50.1 PK	74.0	-23.9	1.48 H	270	38.8	11.3
8	7266.00	38.0 AV	54.0	-16.0	1.48 H	270	26.7	11.3

Remarks:

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

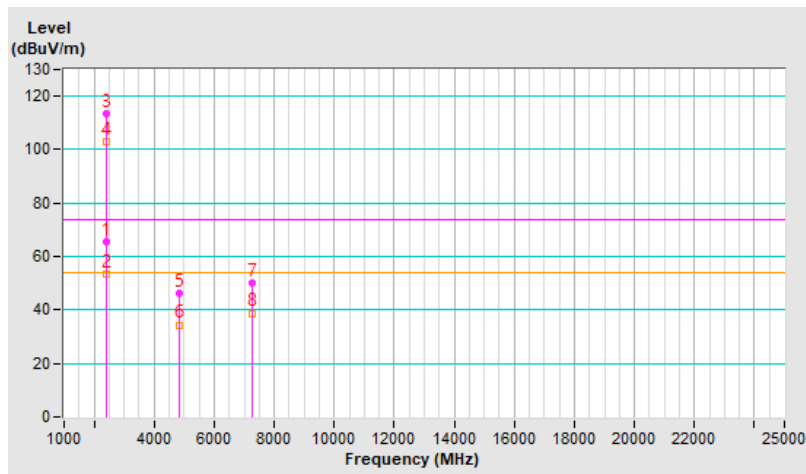


RF Mode	802.11be (EHT40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	65.6 PK	74.0	-8.4	1.00 V	6	65.8	-0.2
2	2390.00	53.6 AV	54.0	-0.4	1.00 V	6	53.8	-0.2
3	*2422.00	113.5 PK			1.00 V	6	113.5	0.0
4	*2422.00	103.0 AV			1.00 V	6	103.0	0.0
5	4844.00	46.0 PK	74.0	-28.0	1.42 V	24	41.4	4.6
6	4844.00	34.4 AV	54.0	-19.6	1.42 V	24	29.8	4.6
7	7266.00	50.0 PK	74.0	-24.0	1.52 V	244	38.7	11.3
8	7266.00	38.8 AV	54.0	-15.2	1.52 V	244	27.5	11.3

Remarks:

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

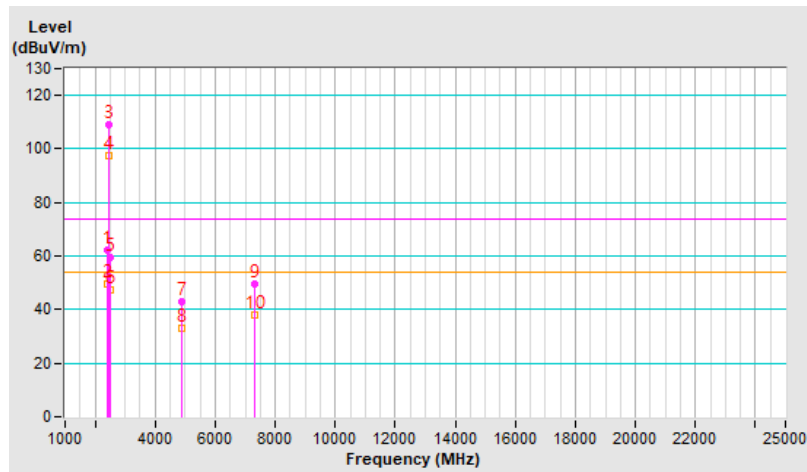


RF Mode	802.11be (EHT40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	62.4 PK	74.0	-11.6	1.40 H	48	62.6	-0.2
2	2390.00	49.6 AV	54.0	-4.4	1.40 H	48	49.8	-0.2
3	*2437.00	108.9 PK			1.40 H	48	108.9	0.0
4	*2437.00	97.7 AV			1.40 H	48	97.7	0.0
5	2483.50	59.4 PK	74.0	-14.6	1.40 H	48	59.5	-0.1
6	2483.50	47.4 AV	54.0	-6.6	1.40 H	48	47.5	-0.1
7	4874.00	43.1 PK	74.0	-30.9	1.33 H	138	38.5	4.6
8	4874.00	33.1 AV	54.0	-20.9	1.33 H	138	28.5	4.6
9	7311.00	49.6 PK	74.0	-24.4	1.55 H	260	38.1	11.5
10	7311.00	38.0 AV	54.0	-16.0	1.55 H	260	26.5	11.5

Remarks:

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

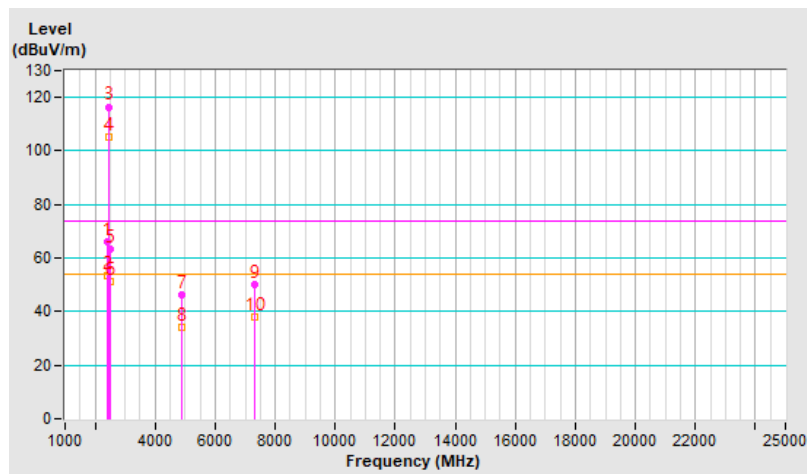


RF Mode	802.11be (EHT40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	2390.00	66.3 PK	74.0	-7.7	1.07 V	4	66.5	-0.2
2	2390.00	53.6 AV	54.0	-0.4	1.07 V	4	53.8	-0.2
3	*2437.00	116.5 PK			1.07 V	4	116.5	0.0
4	*2437.00	105.2 AV			1.07 V	4	105.2	0.0
5	2483.50	63.3 PK	74.0	-10.7	1.07 V	4	63.4	-0.1
6	2483.50	51.2 AV	54.0	-2.8	1.07 V	4	51.3	-0.1
7	4874.00	46.2 PK	74.0	-27.8	1.45 V	31	41.6	4.6
8	4874.00	34.1 AV	54.0	-19.9	1.45 V	31	29.5	4.6
9	7311.00	49.9 PK	74.0	-24.1	1.56 V	250	38.4	11.5
10	7311.00	38.1 AV	54.0	-15.9	1.56 V	250	26.6	11.5

Remarks:

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

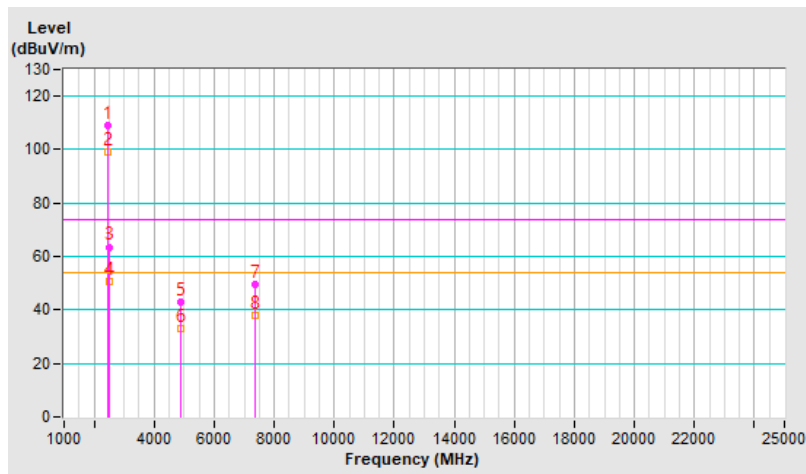


RF Mode	802.11be (EHT40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2452.00	109.2 PK			1.55 H	54	109.3	-0.1
2	*2452.00	99.1 AV			1.55 H	54	99.2	-0.1
3	2483.50	63.6 PK	74.0	-10.4	1.55 H	54	63.7	-0.1
4	2483.50	50.5 AV	54.0	-3.5	1.55 H	54	50.6	-0.1
5	4904.00	42.9 PK	74.0	-31.1	1.33 H	115	38.3	4.6
6	4904.00	32.9 AV	54.0	-21.1	1.33 H	115	28.3	4.6
7	7356.00	49.6 PK	74.0	-24.4	1.52 H	252	37.6	12.0
8	7356.00	37.9 AV	54.0	-16.1	1.52 H	252	25.9	12.0

Remarks:

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

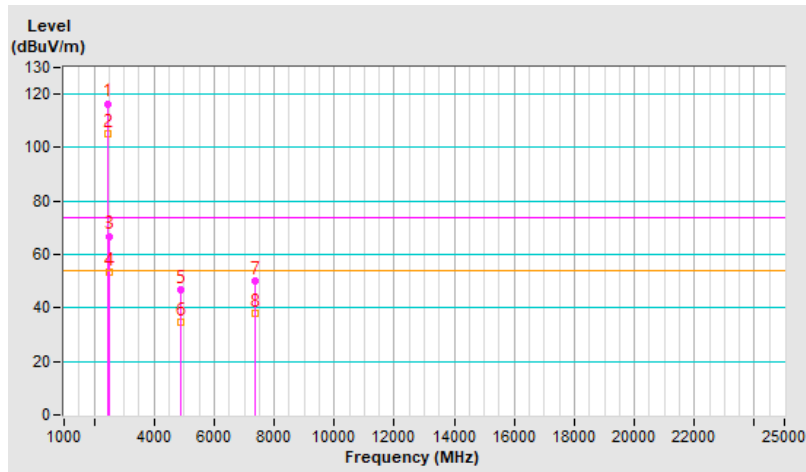


RF Mode	802.11be (EHT40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1k Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 72 % RH
Tested By	Weiwei Lo		

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	*2452.00	116.5 PK			1.12 V	4	116.6	-0.1
2	*2452.00	105.1 AV			1.12 V	4	105.2	-0.1
3	2483.50	66.9 PK	74.0	-7.1	1.12 V	4	67.0	-0.1
4	2483.50	53.5 AV	54.0	-0.5	1.12 V	4	53.6	-0.1
5	4904.00	46.6 PK	74.0	-27.4	1.49 V	48	42.0	4.6
6	4904.00	34.5 AV	54.0	-19.5	1.49 V	48	29.9	4.6
7	7356.00	49.9 PK	74.0	-24.1	1.43 V	262	37.9	12.0
8	7356.00	38.1 AV	54.0	-15.9	1.43 V	262	26.1	12.0

Remarks:

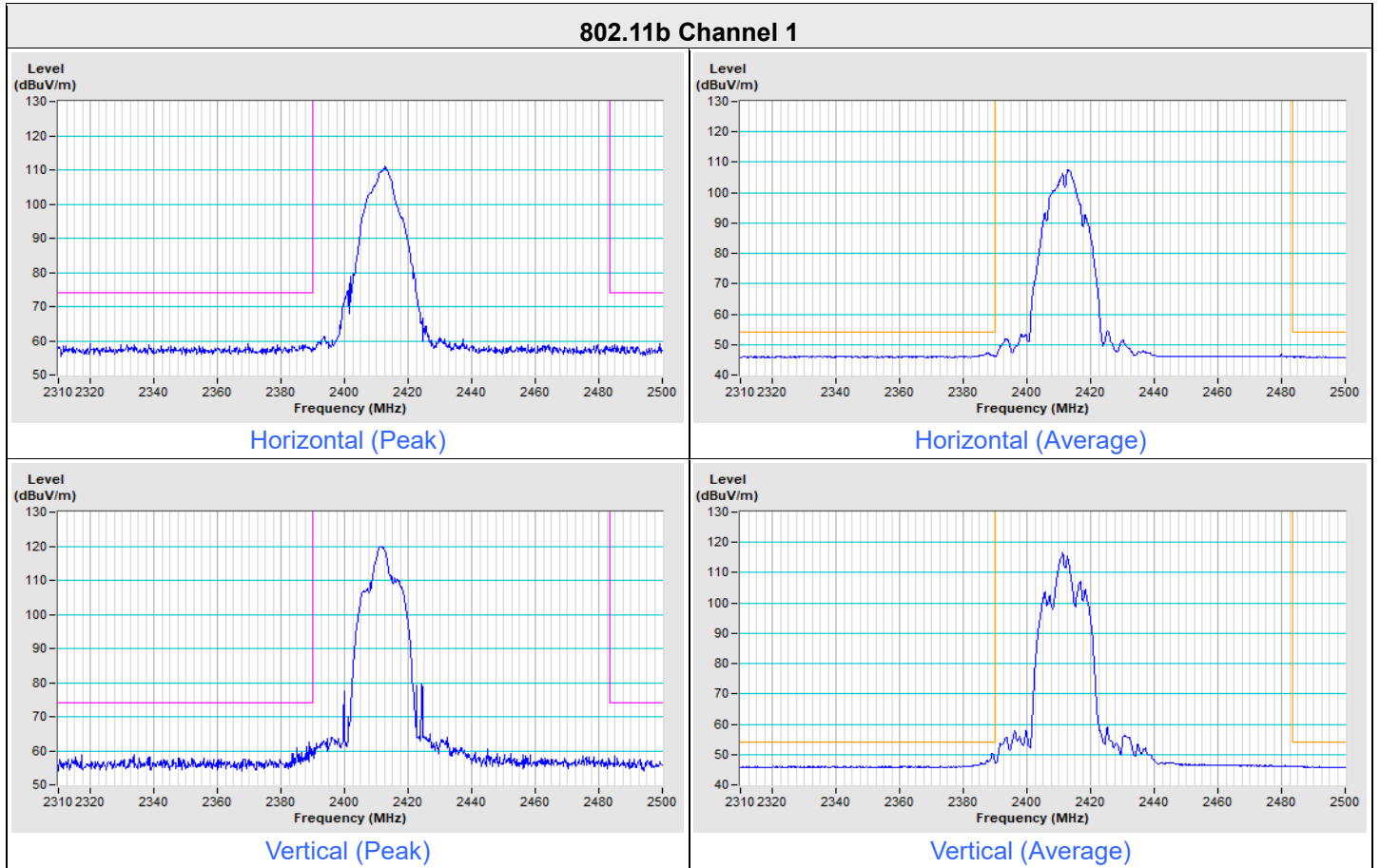
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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



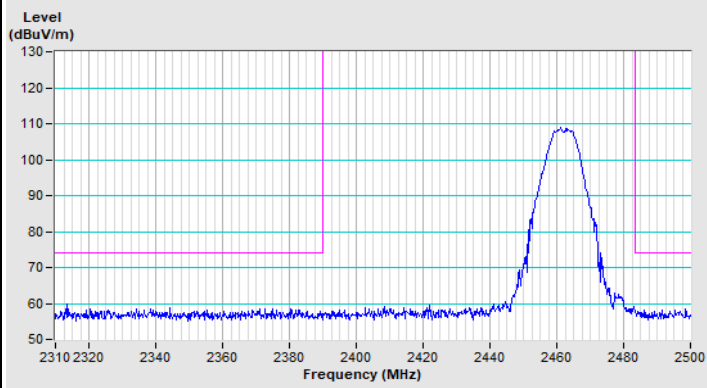
Plot of Band Edge

CDD

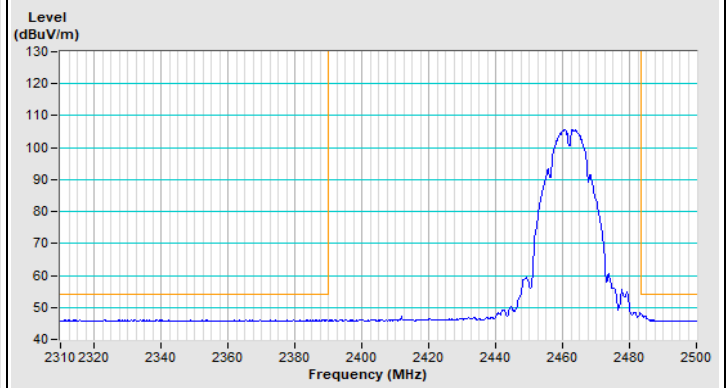
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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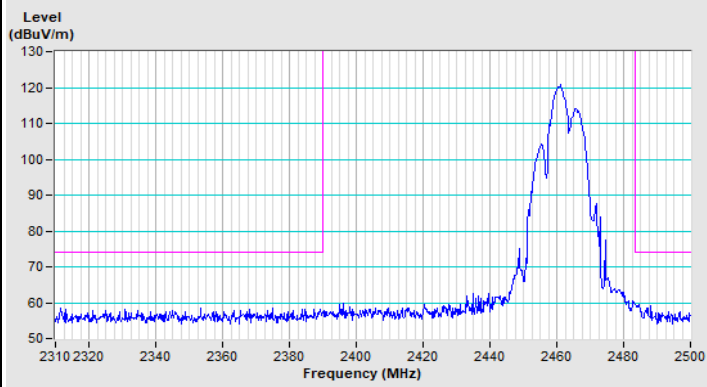
802.11b Channel 11



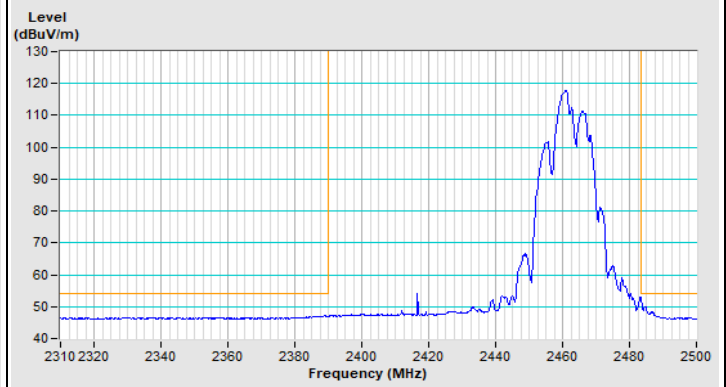
Horizontal (Peak)



Horizontal (Average)



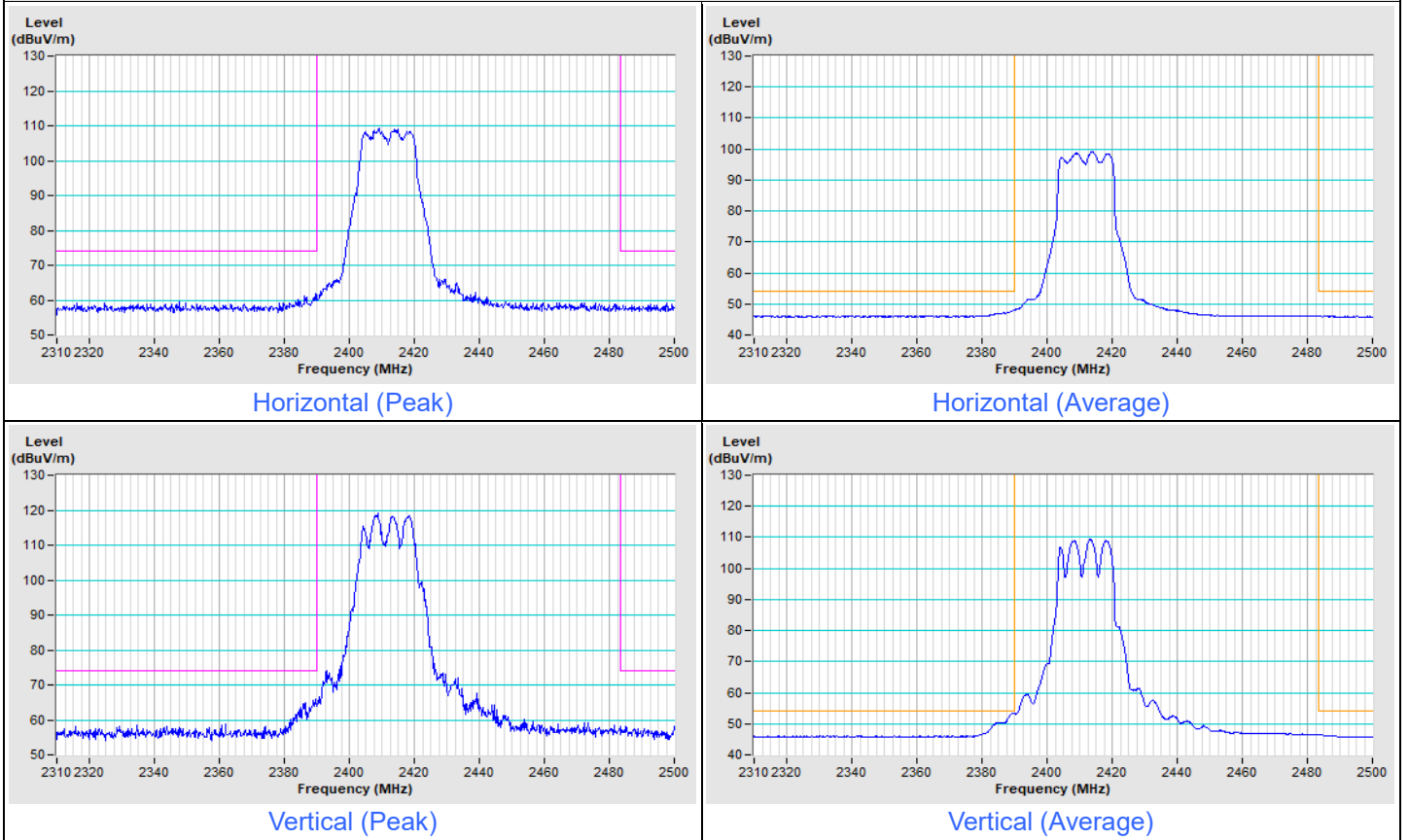
Vertical (Peak)



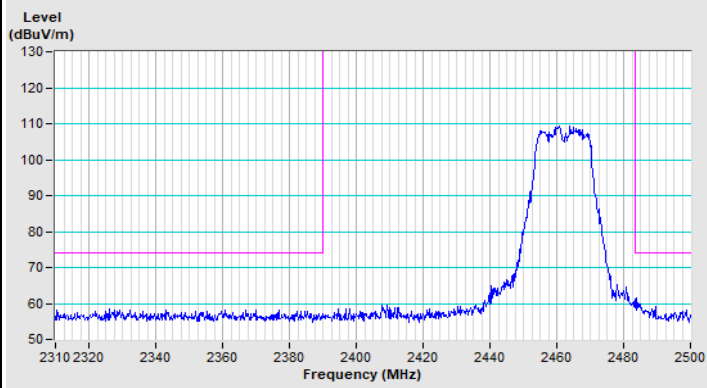
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 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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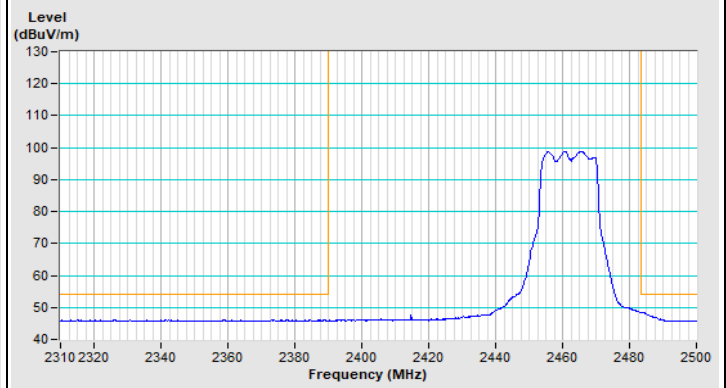
802.11g Channel 1



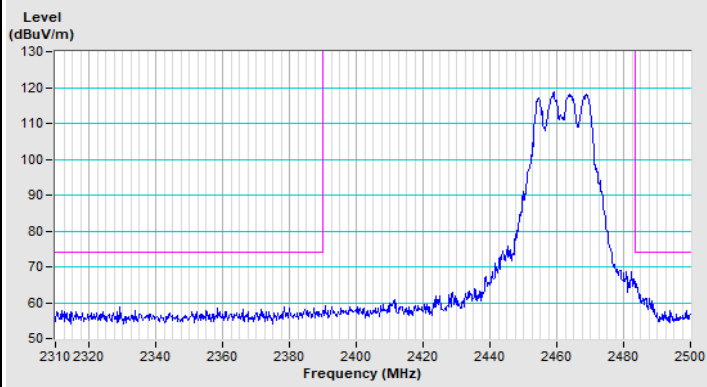
802.11g Channel 11



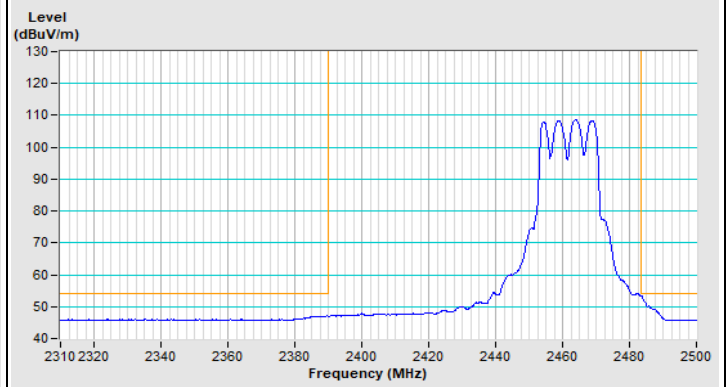
Horizontal (Peak)



Horizontal (Average)



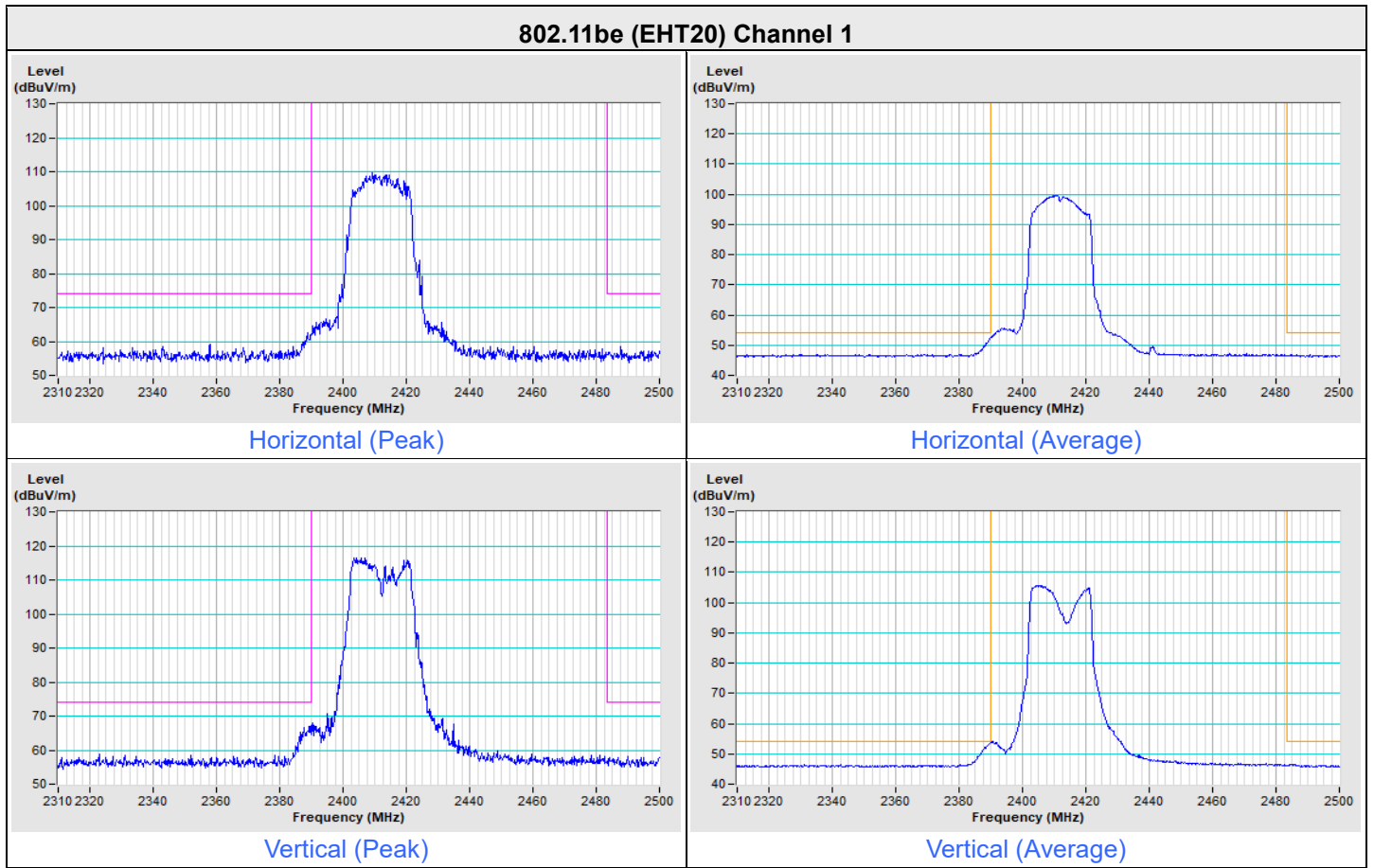
Vertical (Peak)



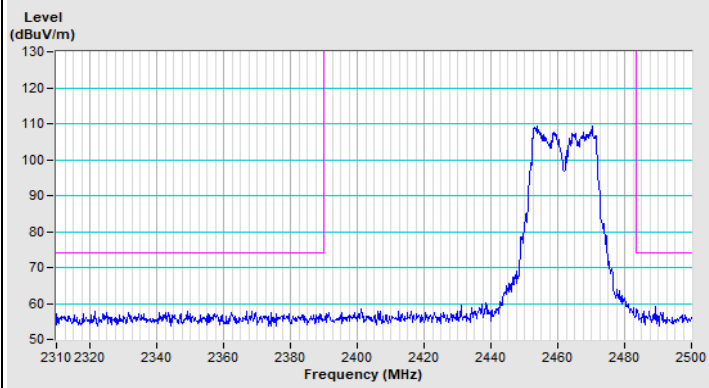
Vertical (Average)

Beamforming

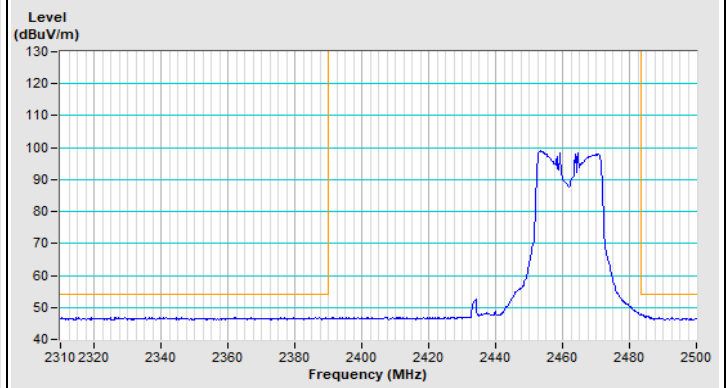
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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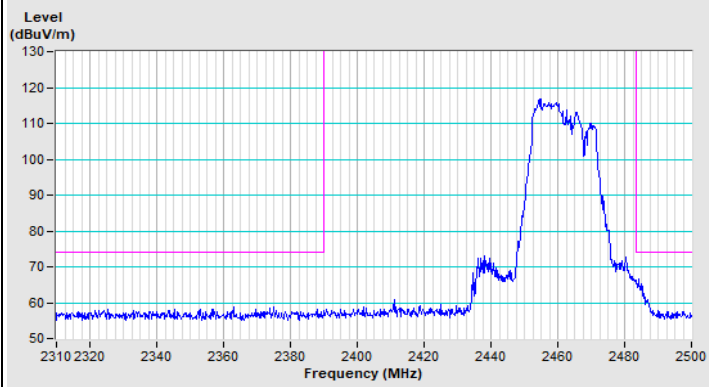
802.11be (EHT20) Channel 11



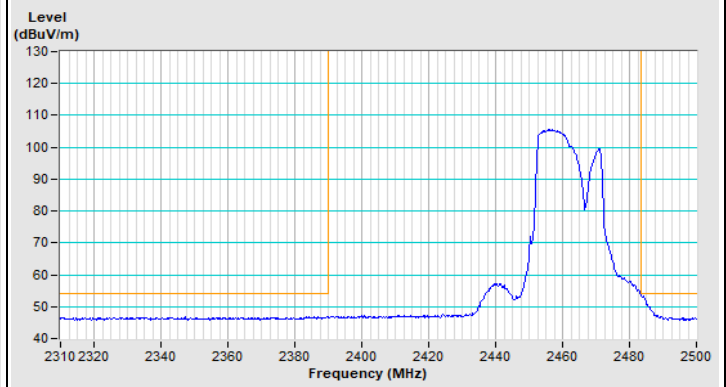
Horizontal (Peak)



Horizontal (Average)



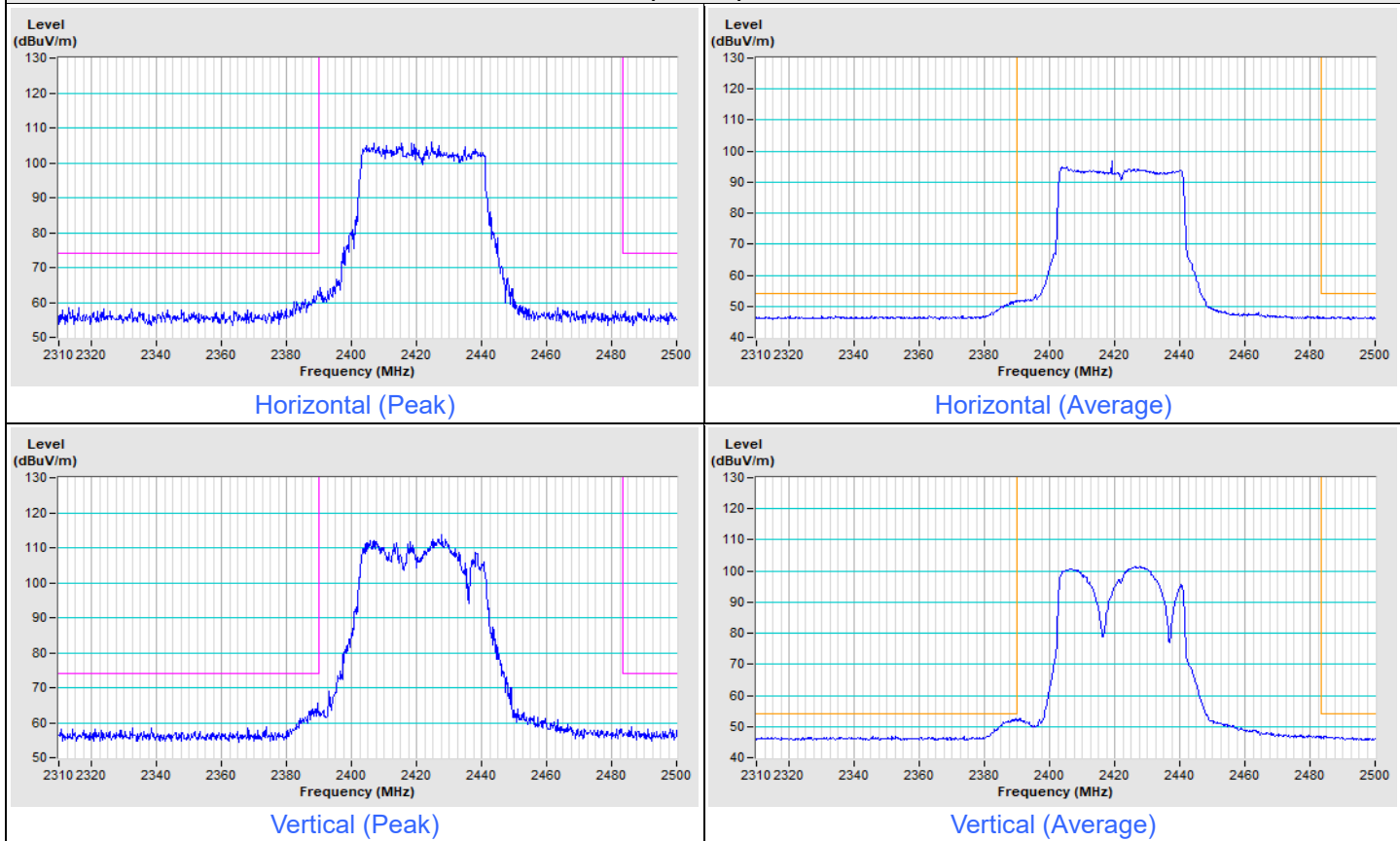
Vertical (Peak)



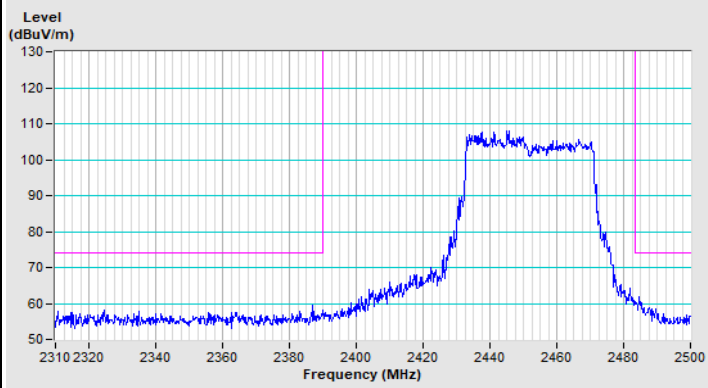
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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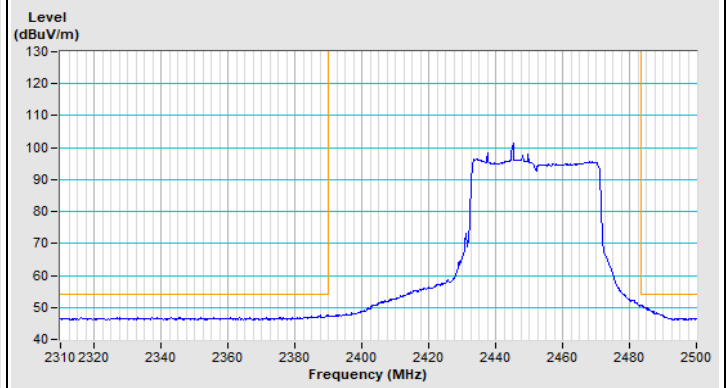
802.11be (EHT40) Channel 3



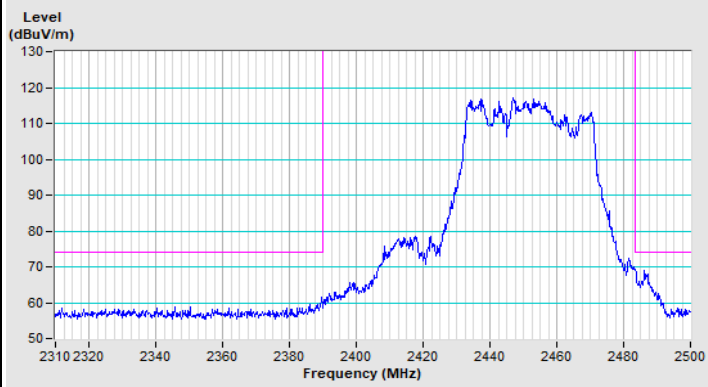
802.11be (EHT40) Channel 9



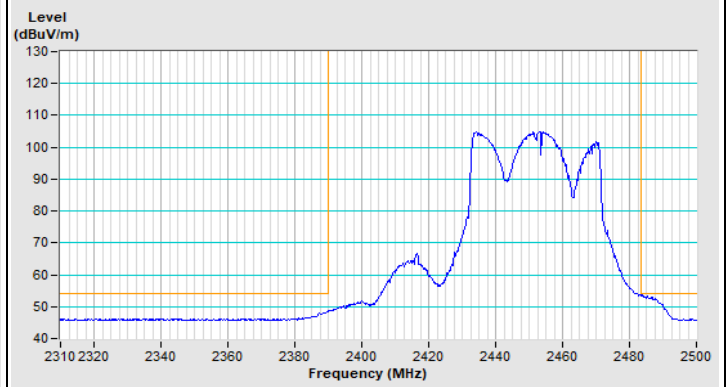
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

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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