

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBHVI-WTW-P24080204B
FCC ID: N6C-PCEBE
Product: Wi-Fi 7/BT combo module
Brand: Silex Technology
Model No.: SX-PCEBE
Received Date: 2024/8/12
Test Date: 2025/3/26 ~ 2025/8/25
Issued Date: 2025/9/25
Applicant: Silex Technology, Inc.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
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FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____

May Chen / Manager

, Date: _____

2025/9/25

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Prepared by: Vito Lung / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBHVI-WTW-P24080204B	Original release.	2025/9/25

1 Certificate

Product: Wi-Fi 7/BT combo module

Brand: Silex Technology

Test Model: SX-PCEBE

Sample Status: Engineering sample

Applicant: Silex Technology, Inc.

Test Date: 2025/3/26 ~ 2025/8/25

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

Measurement procedure: ANSI C63.10-2013
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	N/A	Refer to Note 1 below
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to Note 1 below
15.247(d)	Conducted Out of Band Emissions	N/A	Refer to Note 1 below
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.94 dB at 25.15234 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.4 dB at 398.33 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.09 dB at 2389.97 MHz
15.203	Antenna Requirement	Pass	Antenna connector is MHF 4L not a standard connector.

Note:

- Only RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items were performed for this addendum. The others testing data refer to original test report. (Original FCC ID: J9C-QCNCM825).
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
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	Wi-Fi 7/BT combo module
Brand	Silex Technology
Test Model	SX-PCEBE
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDM in VHT mode 4096QAM 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 500 Mbps 802.11ax: up to 709.1 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): 7
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone Multi-RU (Small RU): 52-tone + 26-tone, 106-tone + 26-tone
Output Power	601.273 mW (27.79 dBm)

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RFBHVI-WTW-P24080244A as the following:

◆ Add variant chip QCC2076

Original	
SKU No.	Difference
1	Chip WCN7851
Newly	
2	Chip QCC2076
From the above SKUs, the SKUs 2 was selected as representative model for the test and its data was recorded in this report.	

2. According to above conditions, there are RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items need to be performed. All data for meeting the requirement is verified.
3. There are Bluetooth (EDR, BLE, QHS) and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.

4. Simultaneously transmission combination.

Combination	Technology	
1	WLAN(2.4 GHz)_Ant 0+1	WLAN(5 GHz)_Ant 0+1
2	WLAN(2.4 GHz)_Ant 0+1	WLAN(6 GHz)_Ant 0+1
3	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 0
4	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 1
5	WLAN(5 GHz)_Ant 0+1	Bluetooth_Ant 0+1
6	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 0
7	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 1
8	WLAN(6 GHz)_Ant 0+1	Bluetooth_Ant 0+1
9	WLAN(2.4 GHz)_Ant 0	Bluetooth_Ant 1
10	WLAN(2.4 GHz)_Ant 1	Bluetooth_Ant 0

5. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0/1	Hong-Bo	260-25094	3.53	2.4~2.4835	0.74	PIFA	MHF 4L	300
				3.06	5.15~5.25	1.16			
				3.07	5.25~5.35	1.18			
				4.81	5.47~5.725	1.26			
				4.2	5.725~5.850	1.28			
2	Chain0/1	Hong-Bo	260-25083	5.09	5.850~5.895	1.29	PIFA	MHF 4L	300
				5.14	5.925~6.425	1.35			
				5.09	6.425~6.525	1.38			
				5.16	6.525~6.875	1.45			
				5.12	6.875~7.125	1.50			
3	Chain0/1	Hong-Bo	260-25084	3.22	2.4~2.4835	0.49	Monopole	MHF 4L	200
				3.35	5.150~5.250	0.76			
				3.42	5.250~5.350	0.77			
				4.77	5.470~5.725	0.80			
				4.72	5.725~5.850	0.84			
				4.71	5.850~5.895	0.84			
				4.75	5.925~6.425	0.86			
				4.29	6.425~6.525	0.91			
				4.81	6.525~6.875	0.96			
				4.74	6.875~7.125	0.98			
Note: For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 0 will be used as representative test.									

* 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 / 1Tx Diversity	2Rx
802.11g	2Tx / 1Tx Diversity	2Rx
802.11n (HT20)	2Tx / 1Tx Diversity	2Rx
802.11n (HT40)	2Tx / 1Tx Diversity	2Rx
VHT20	2Tx / 1Tx Diversity	2Rx
VHT40	2Tx / 1Tx Diversity	2Rx
802.11ax (HE20)	2Tx / 1Tx Diversity	2Rx
802.11ax (HE40)	2Tx / 1Tx Diversity	2Rx
802.11be (EHT20)	2Tx / 1Tx Diversity	2Rx
802.11be (EHT40)	2Tx / 1Tx Diversity	2Rx
802.11ax (RU26/52/106/242/484)	2Tx / 1Tx Diversity	2Rx
802.11be (RU26/52/106/242/484 MRU52+26/106+26)	2Tx / 1Tx Diversity	2Rx
Note: 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 investigated worst case is the 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

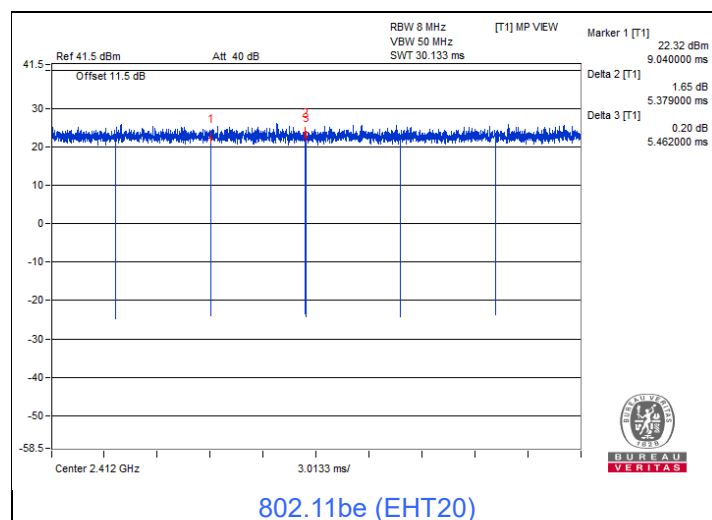
Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Tx/Rx Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	A	802.11be (EHT20)	1Tx, 2Tx	CDD	1, 2, 6, 10, 11	BPSK	MCS0	NA
AC Power Conducted Emissions	C	802.11be (EHT20)	2Tx	CDD	6	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT20)	2Tx	CDD	6	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	A, B	802.11be (EHT20)	1Tx, 2Tx	CDD	1, 2, 6, 10, 11	BPSK	MCS0	NA
EUT Configure Mode:	A	EUT only (remove 50 ohm terminator and Connect to the appropriate equipment)						
	B	EUT with 50 ohm terminator						
	C	EUT with antenna set 1 (Model: 260-25094)						

3.5 Duty Cycle of Test Signal

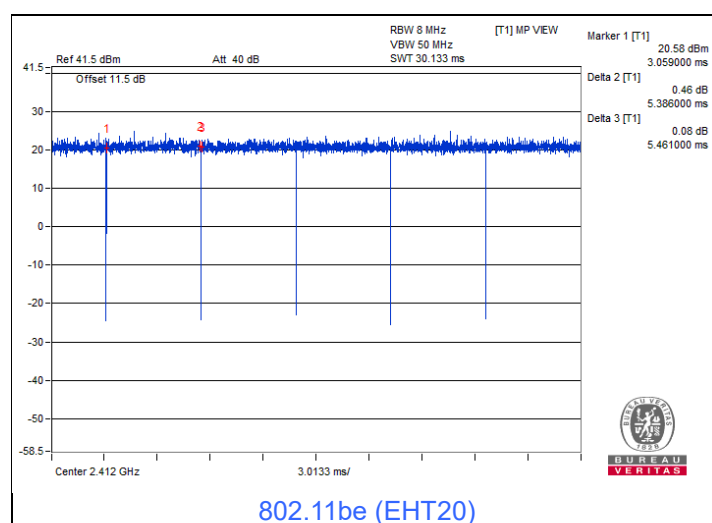
1Tx

802.11be (EHT20): Duty cycle = 5.379 ms / 5.462 ms x 100% = 98.5%



2Tx

802.11be (EHT20): Duty cycle = 5.386 ms / 5.461 ms x 100% = 98.6%

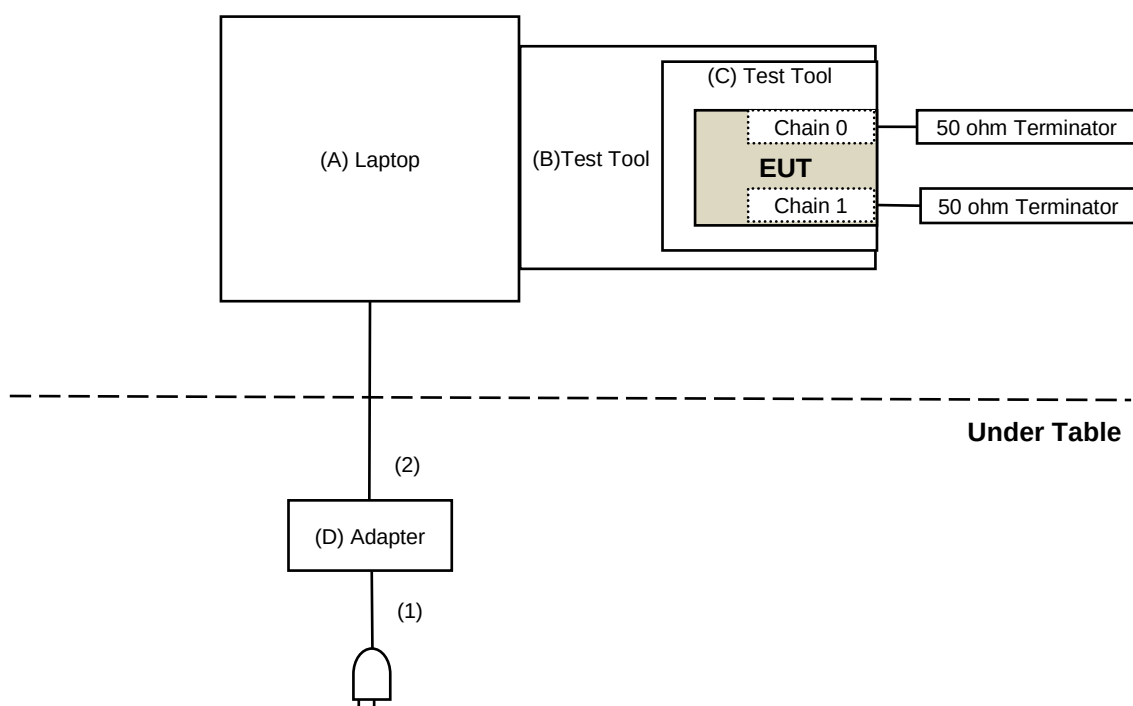


3.6 Test Program Used and Operation Descriptions

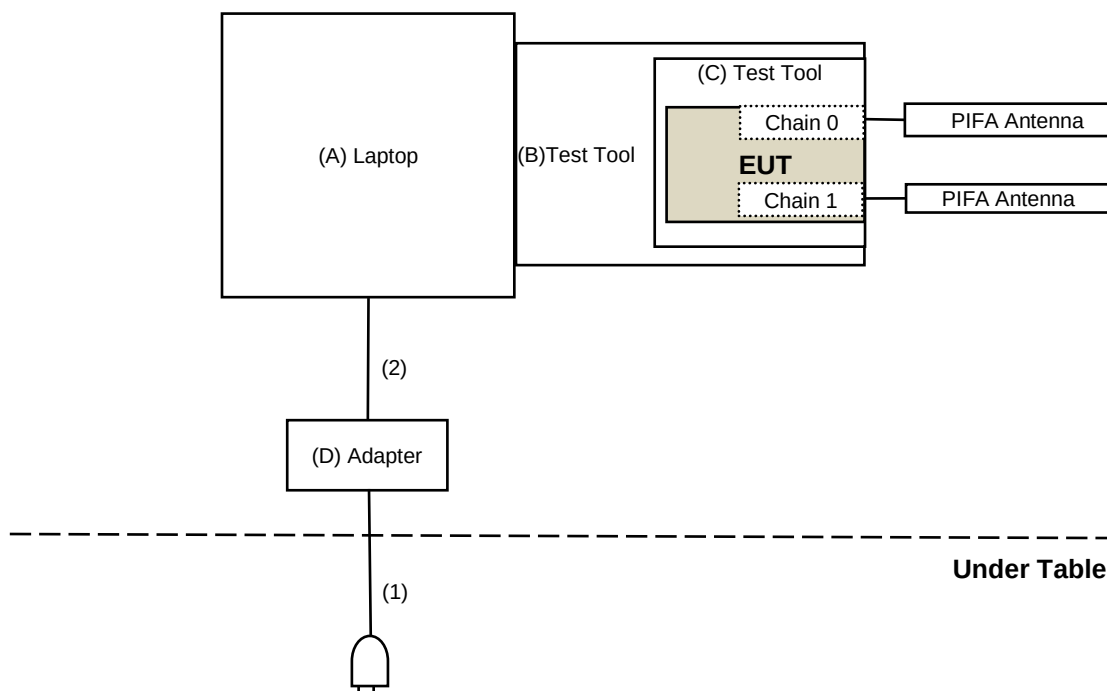
Controlling software (QRCT 1.0.00098) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	HP	HSN-Q32C-5	N/A	N/A	Supplied by applicant
B	Test Tool	Silex	NGFF(A+E) TO Mini PCI-E Adapter	N/A	N/A	Supplied by applicant
C	Test Tool	Silex	PW105500XX	N/A	N/A	Supplied by applicant
D	Adapter	HP	TPN-DA22	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Cable	1	0.85	No	0	Supplied by applicant
2	DC Cable	1	1.6	No	0	Supplied by applicant

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/8/25

4.2 AC Power Conducted Emissions

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

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/5/19

4.3 Unwanted Emissions below 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/5/29	2025/5/28
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16	2026/1/15
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/3/27

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2025/2/15	2026/2/14
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY51210202	2024/7/29	2025/7/28
Preamplifier EMCI	EMC330N	980701	2025/2/15	2026/2/14
	EMC001340	980142	2025/2/17	2026/2/16
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2025/2/15	2026/2/14
	100100-CFD400LW-400	CFD400-400	2025/2/15	2026/2/14
	100100-CFD400LW-800	CFD400-800	2025/2/15	2026/2/14
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: 2025/5/16

4.4 Unwanted Emissions above 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/5/29	2025/5/28
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16	2026/1/15
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/3/26 ~ 2025/3/27

Mode B

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	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXA Signal Analyzer Keysight	N9020B	MY60112410	2025/3/17	2026/3/16
Preamplifier EMCI	EMC12630SE	980688	2024/8/8	2025/8/7
	EMC184045SE	980387	2024/8/8	2025/8/7
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1200	160922	2025/1/14	2026/1/13
	EMC104-SM-SM-2000	180502	2025/1/14	2026/1/13
	EMC104-SM-SM-6000	210704	2024/10/30	2025/10/29
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: 2025/4/17

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 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.

5.3 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 20 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).

5.4 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 20 dB below the highest level of the desired power:

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

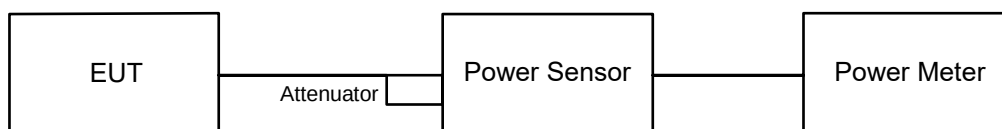
Notes:

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

Peak Power:

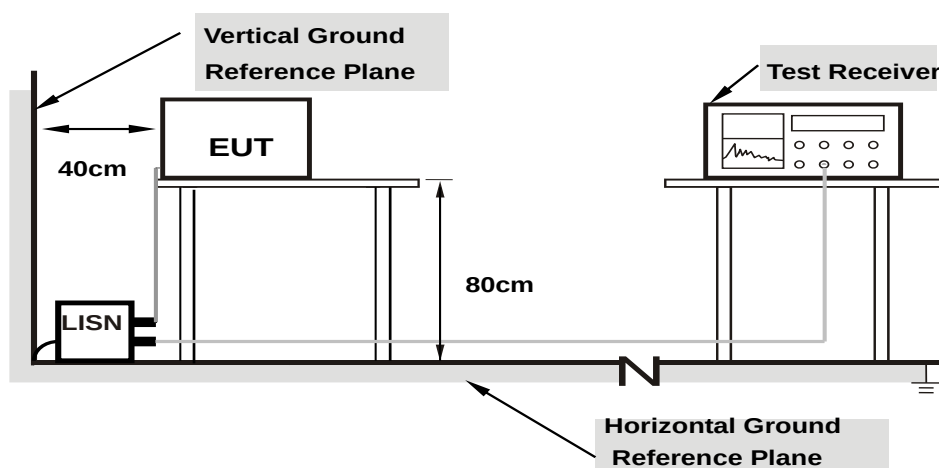
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

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 AC Power Conducted Emissions

6.2.1 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).

6.2.2 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.

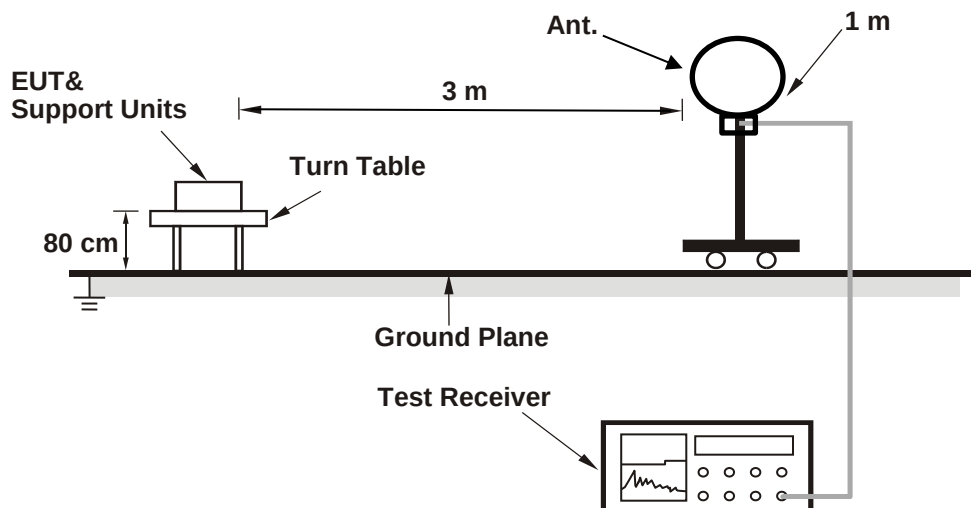
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.3 Unwanted Emissions below 1 GHz

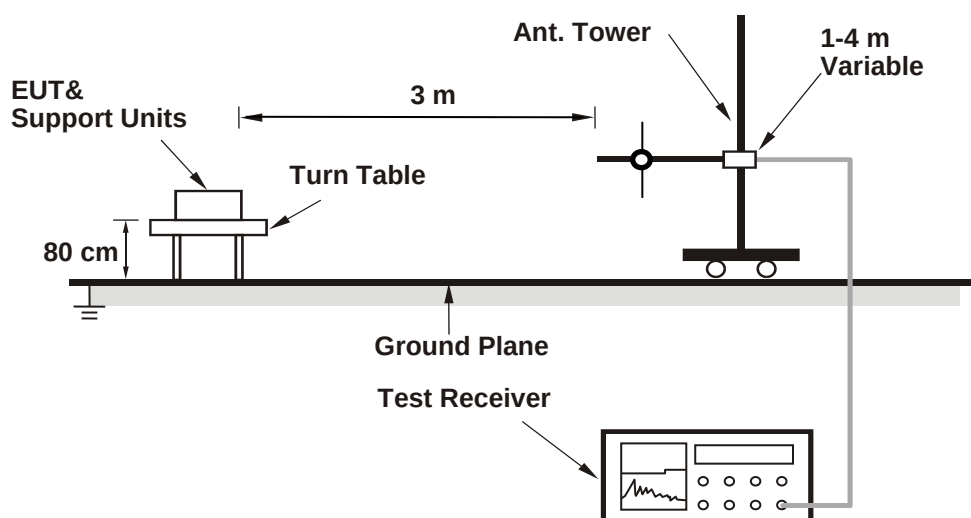
6.3.1 Test Setup

For Radiated Configuration:

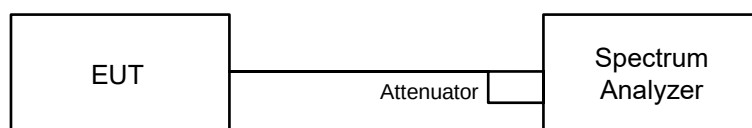
For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For Conducted Configuration:



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

6.3.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

For Radiated emission below 30 MHz

- e-1.1. 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.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. 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-1.5. 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

- e-2.1. 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.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. 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.
- e-2.4. 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-2.5. 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.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
For the band edge the gain for the specific band may have been used.

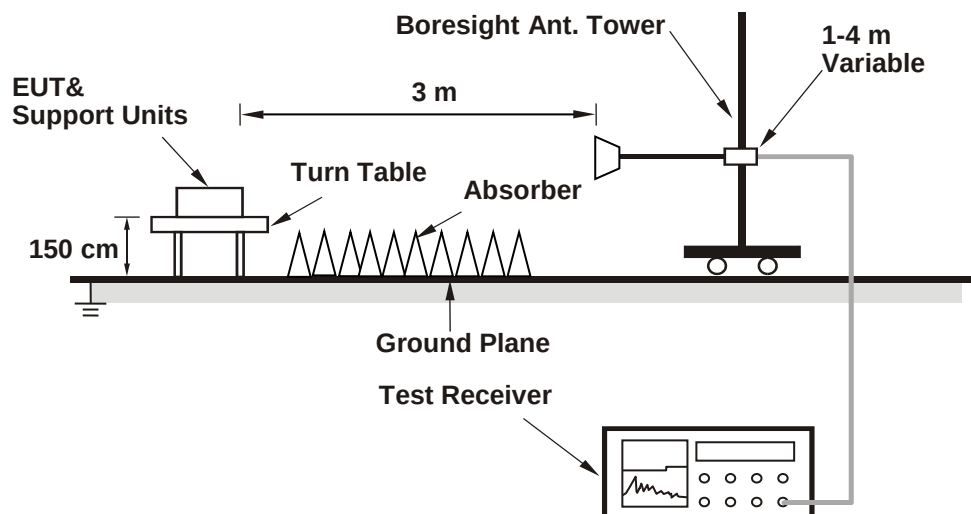
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

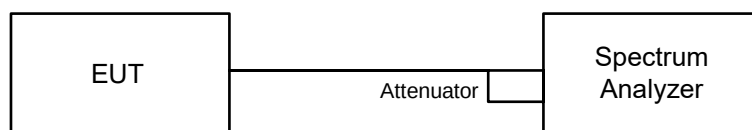
6.4 Unwanted Emissions above 1 GHz

6.4.1 Test Setup

For Radiated Configuration:



For Conducted Configuration:



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

6.4.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- For all of Radiation emission test
 - 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.

- e-4. 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-5. 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:

1. 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.
2. 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.
3. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

For Verified radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

Conducted Unwanted Emission Convert Formula

a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB).

c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.

For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.

For the band edge the gain for the specific band may have been used.

Note: The conducted emission test was considered some factor to compute test result.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	22°C, 64% RH	Tested By:	Katina Lu
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1Tx

For Peak Power

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	285.102	24.55	30	Pass
2	2417	277.971	24.44	30	Pass
6	2437	315.5	24.99	30	Pass
10	2457	290.402	24.63	30	Pass
11	2462	197.242	22.95	30	Pass

Note: The antenna gain is 3.53 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	76.913	18.86
2	2417	75.336	18.77
6	2437	88.716	19.48
10	2457	85.507	19.32
11	2462	57.016	17.56

Input Power:	3.3 Vdc	Environmental Conditions:	22°C, 64% RH	Tested By:	Katina Lu
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2Tx

For Peak Power

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.01	20.07	201.855	23.05	30	Pass
2	2417	22.92	23.29	409.189	26.12	30	Pass
6	2437	24.72	24.84	601.273	27.79	30	Pass
10	2457	22.22	22.98	365.334	25.63	30	Pass
11	2462	20.24	20.51	218.142	23.39	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.53 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	14.23	14.43	54.218	17.34
2	2417	17.08	17.41	106.131	20.26
6	2437	18.95	19.35	164.623	22.16
10	2457	16.62	17.31	99.747	19.99
11	2462	14.57	14.88	59.403	17.74

7.2 AC Power Conducted Emissions

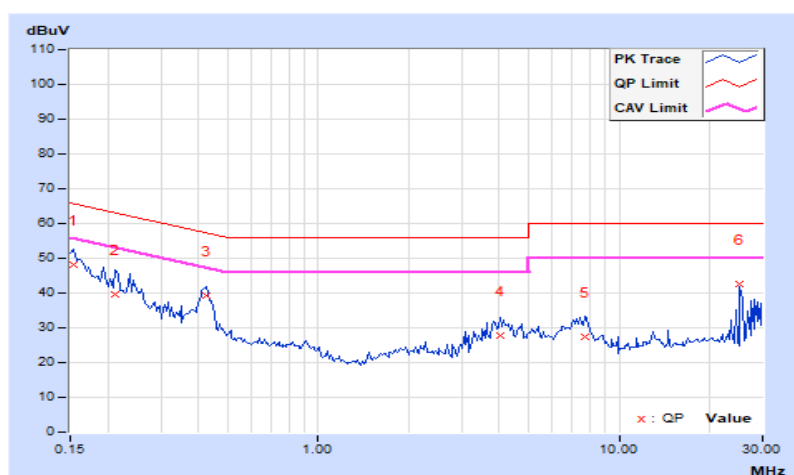
Mode C_2Tx

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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	10.00	38.18	22.83	48.18	32.83	65.79	55.79	-17.61	-22.96
2	0.21250	10.03	29.49	18.98	39.52	29.01	63.11	53.11	-23.59	-24.10
3	0.42344	10.04	29.25	23.82	39.29	33.86	57.38	47.38	-18.09	-13.52
4	4.03906	10.30	17.36	6.84	27.66	17.14	56.00	46.00	-28.34	-28.86
5	7.71484	10.54	17.01	12.27	27.55	22.81	60.00	50.00	-32.45	-27.19
6	25.15625	11.20	31.24	27.99	42.44	39.19	60.00	50.00	-17.56	-10.81

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

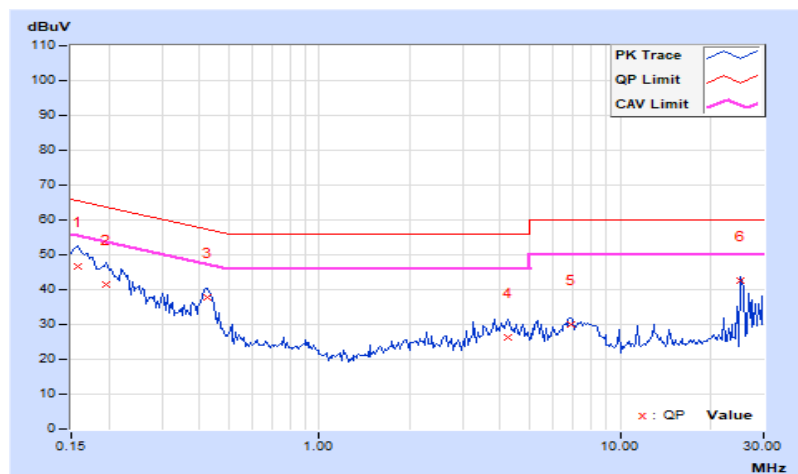


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	0.15781	10.02	36.61	21.04	46.63	31.06	65.58	55.58	-18.95	-24.52
2	0.19687	10.03	31.56	17.12	41.59	27.15	63.74	53.74	-22.15	-26.59
3	0.42734	10.02	27.94	21.22	37.96	31.24	57.30	47.30	-19.34	-16.06
4	4.25391	10.28	16.01	6.40	26.29	16.68	56.00	46.00	-29.71	-29.32
5	6.85938	10.44	19.43	15.30	29.87	25.74	60.00	50.00	-30.13	-24.26
6	25.15234	11.00	31.76	30.06	42.76	41.06	60.00	50.00	-17.24	-8.94

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



7.3 Unwanted Emissions below 1 GHz

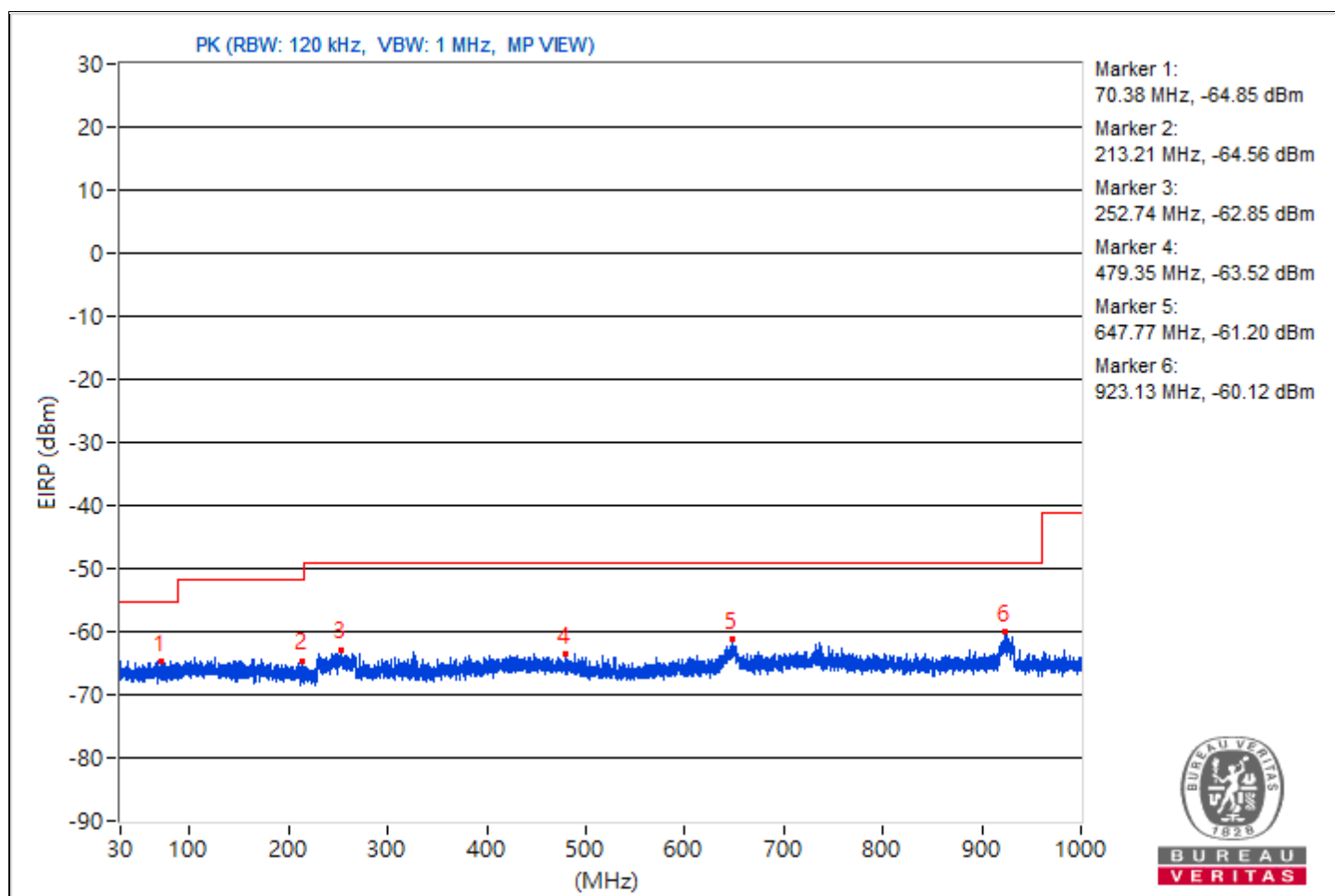
Mode A_2Tx

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	70.38	30.41 PK	40	-9.59	-79.73	-82.03	12.87	-64.85
2	213.21	30.7 PK	43.5	-12.8	-83.15	-78.79	12.87	-64.56
3	252.74	32.41 PK	46	-13.59	-79.3	-78.23	12.87	-62.85
4	479.35	31.74 PK	46	-14.26	-81.19	-78.14	12.87	-63.52
5	647.77	34.06 PK	46	-11.94	-78	-76.32	12.87	-61.2
6	923.13	35.14 PK	46	-10.86	-75.56	-76.49	12.87	-60.12

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



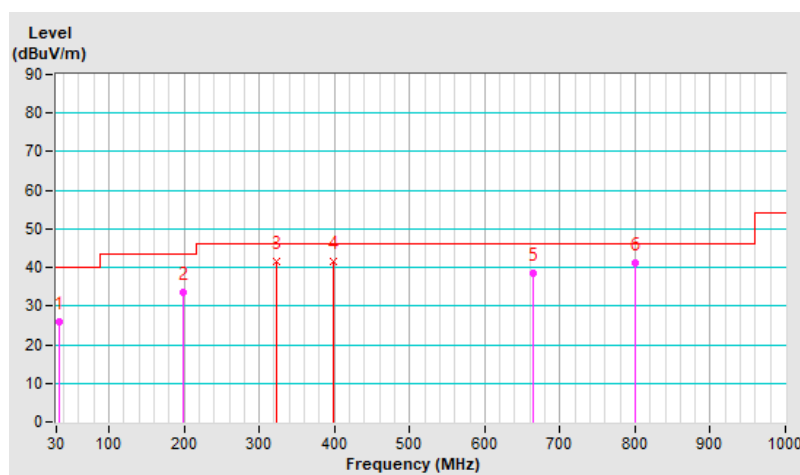
Mode B_2Tx

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65% RH
Tested By	Tank Wu		

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	33.42	25.8 QP	40.0	-14.2	2.00 H	152	39.6	-13.8
2	199.22	33.7 QP	43.5	-9.8	2.00 H	121	49.9	-16.2
3	322.77	41.5 QP	46.0	-4.5	1.00 H	186	53.2	-11.7
4	398.33	41.6 QP	46.0	-4.4	3.13 H	194	51.5	-9.9
5	663.63	38.5 QP	46.0	-7.5	3.00 H	96	42.5	-4.0
6	799.77	41.1 QP	46.0	-4.9	2.00 H	303	42.4	-1.3

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.

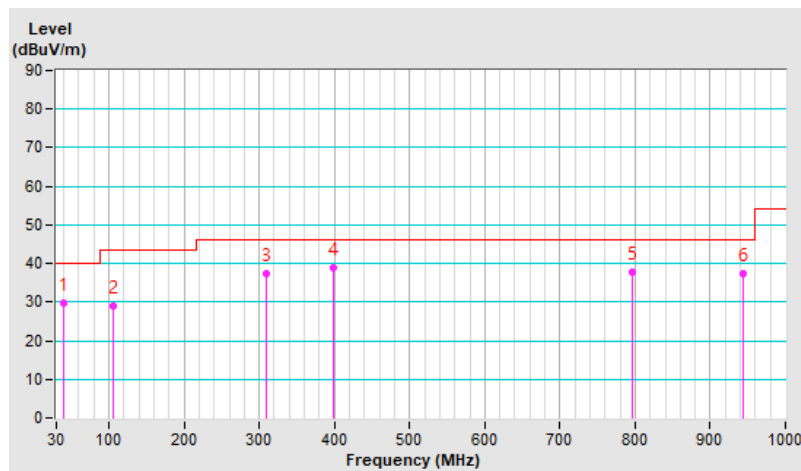


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65% RH
Tested By	Tank Wu		

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	39.09	29.8 QP	40.0	-10.2	1.00 V	360	43.2	-13.4
2	106.29	29.1 QP	43.5	-14.4	4.00 V	95	45.2	-16.1
3	308.95	37.3 QP	46.0	-8.7	2.00 V	155	49.4	-12.1
4	398.31	38.8 QP	46.0	-7.2	1.00 V	32	48.7	-9.9
5	796.62	37.6 QP	46.0	-8.4	2.00 V	176	39.1	-1.5
6	944.01	37.5 QP	46.0	-8.5	2.00 V	166	37.1	0.4

Remarks:

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



7.4 Unwanted Emissions above 1 GHz

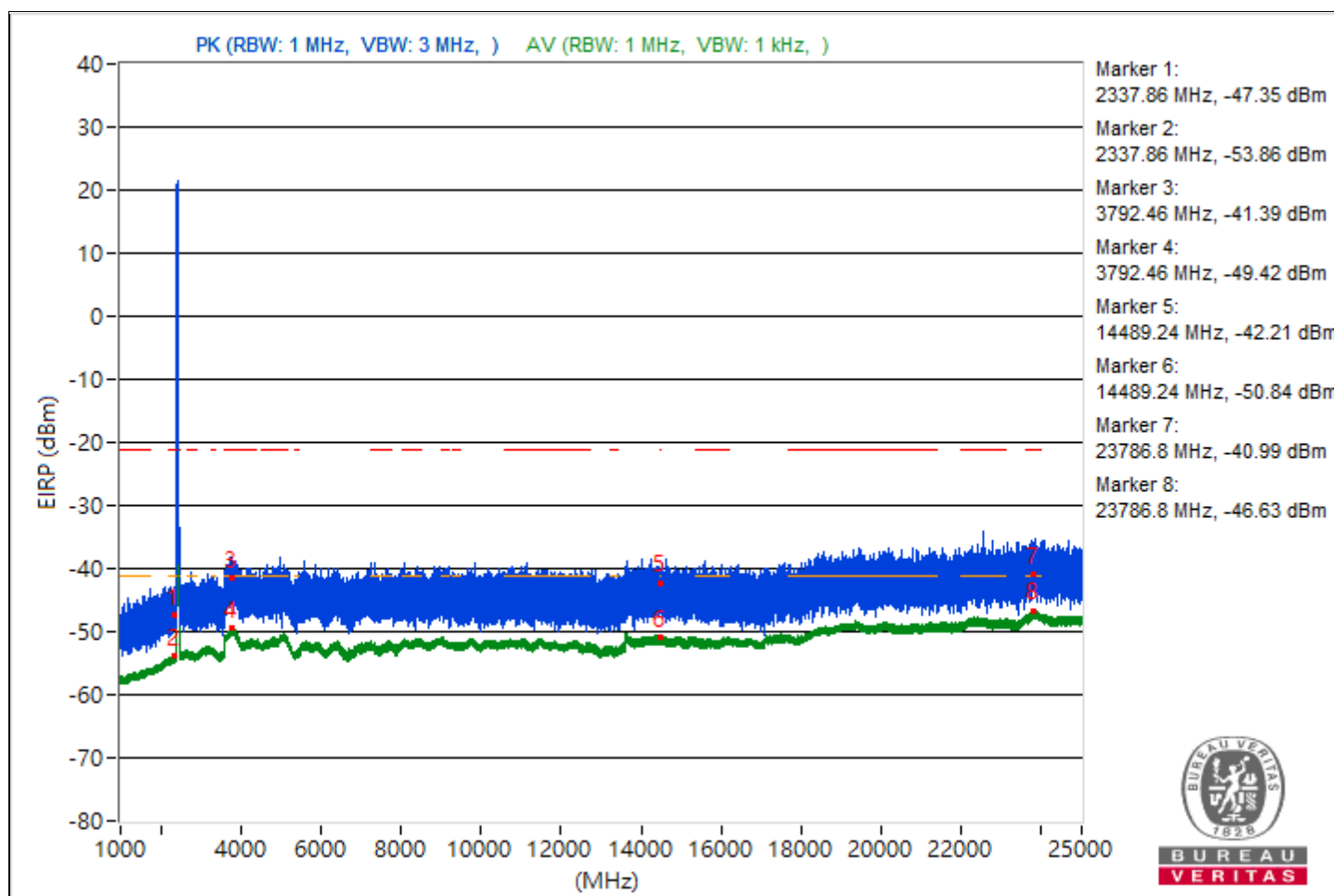
Mode A_1Tx

Conducted Unwanted Emissions

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2337.86	47.91 PK	74	-26.09	-52.51	5.16	-47.35
2	2337.86	41.4 AV	54	-12.6	-59.02	5.16	-53.86
3	3792.46	53.87 PK	74	-20.13	-46.55	5.16	-41.39
4	3792.46	45.84 AV	54	-8.16	-54.58	5.16	-49.42
5	14489.24	53.05 PK	74	-20.95	-47.37	5.16	-42.21
6	14489.24	44.42 AV	54	-9.58	-56	5.16	-50.84
7	23786.8	54.27 PK	74	-19.73	-46.15	5.16	-40.99
8	23786.8	48.63 AV	54	-5.37	-51.79	5.16	-46.63

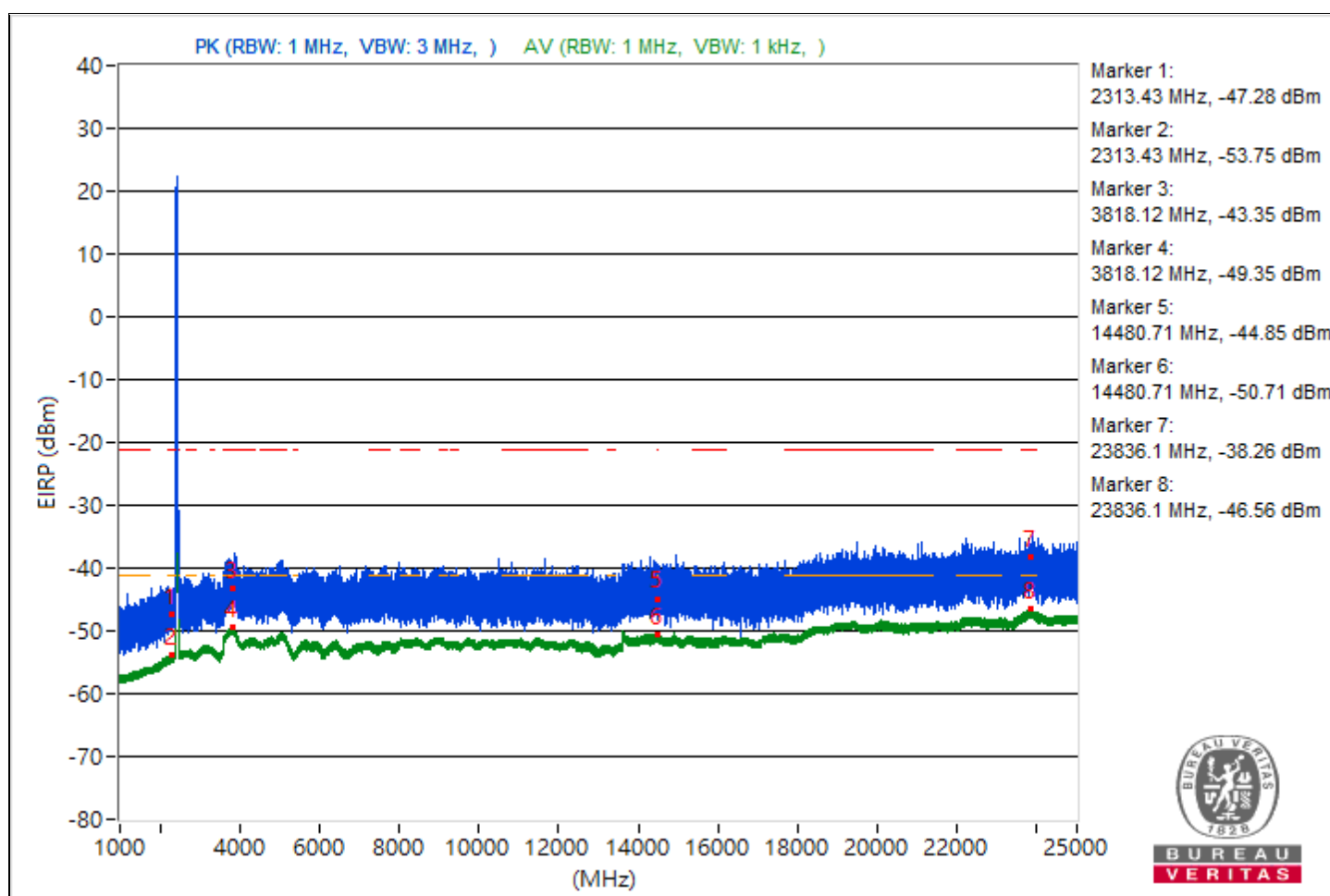
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2313.43	47.98 PK	74	-26.02	-52.44	5.16	-47.28
2	2313.43	41.51 AV	54	-12.49	-58.91	5.16	-53.75
3	3818.12	51.91 PK	74	-22.09	-48.51	5.16	-43.35
4	3818.12	45.91 AV	54	-8.09	-54.51	5.16	-49.35
5	14480.71	50.41 PK	74	-23.59	-50.01	5.16	-44.85
6	14480.71	44.55 AV	54	-9.45	-55.87	5.16	-50.71
7	23836.1	57 PK	74	-17	-43.42	5.16	-38.26
8	23836.1	48.7 AV	54	-5.3	-51.72	5.16	-46.56

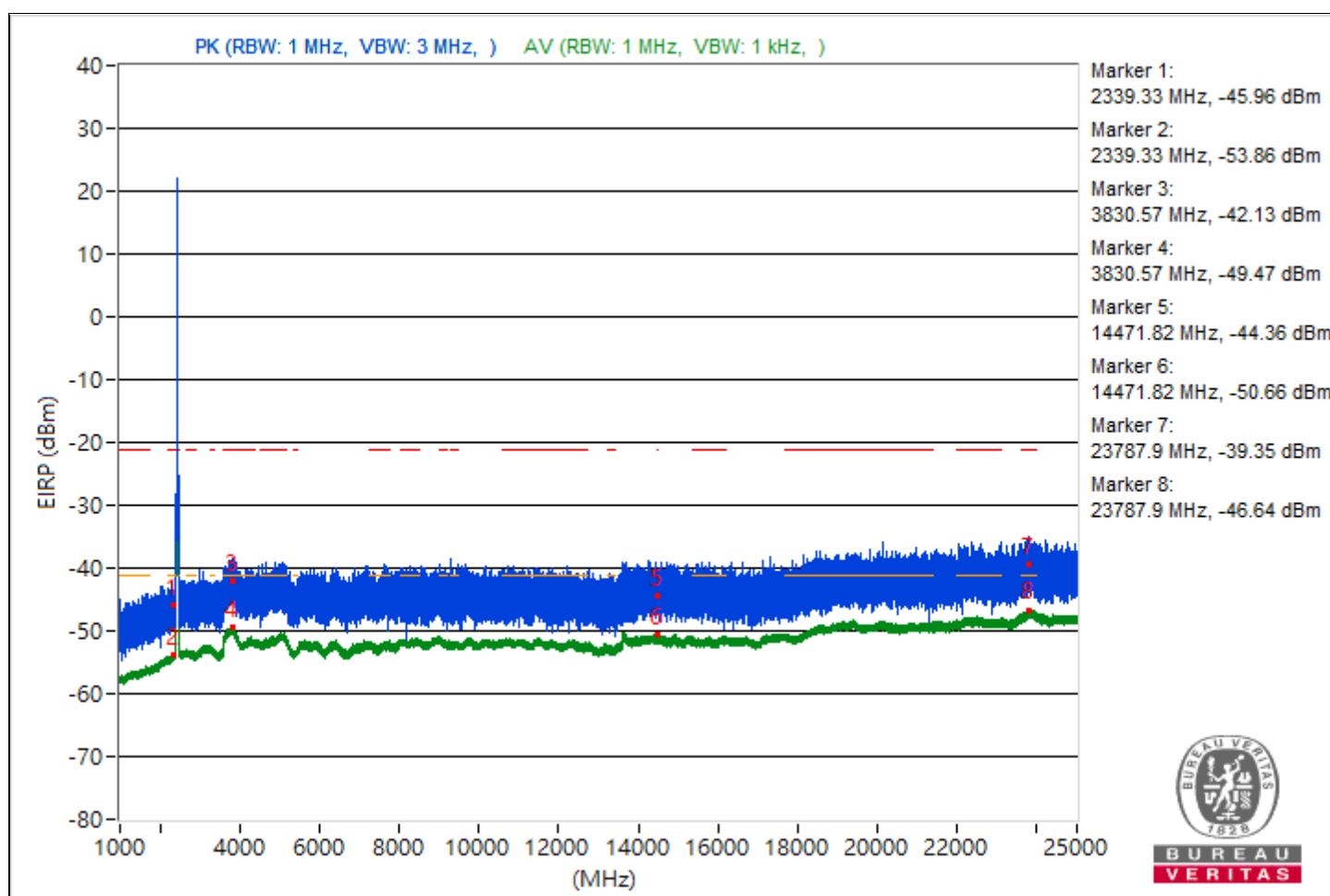
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2339.33	49.3 PK	74	-24.7	-51.12	5.16	-45.96
2	2339.33	41.4 AV	54	-12.6	-59.02	5.16	-53.86
3	3830.57	53.13 PK	74	-20.87	-47.29	5.16	-42.13
4	3830.57	45.79 AV	54	-8.21	-54.63	5.16	-49.47
5	14471.82	50.9 PK	74	-23.1	-49.52	5.16	-44.36
6	14471.82	44.6 AV	54	-9.4	-55.82	5.16	-50.66
7	23787.9	55.91 PK	74	-18.09	-44.51	5.16	-39.35
8	23787.9	48.62 AV	54	-5.38	-51.8	5.16	-46.64

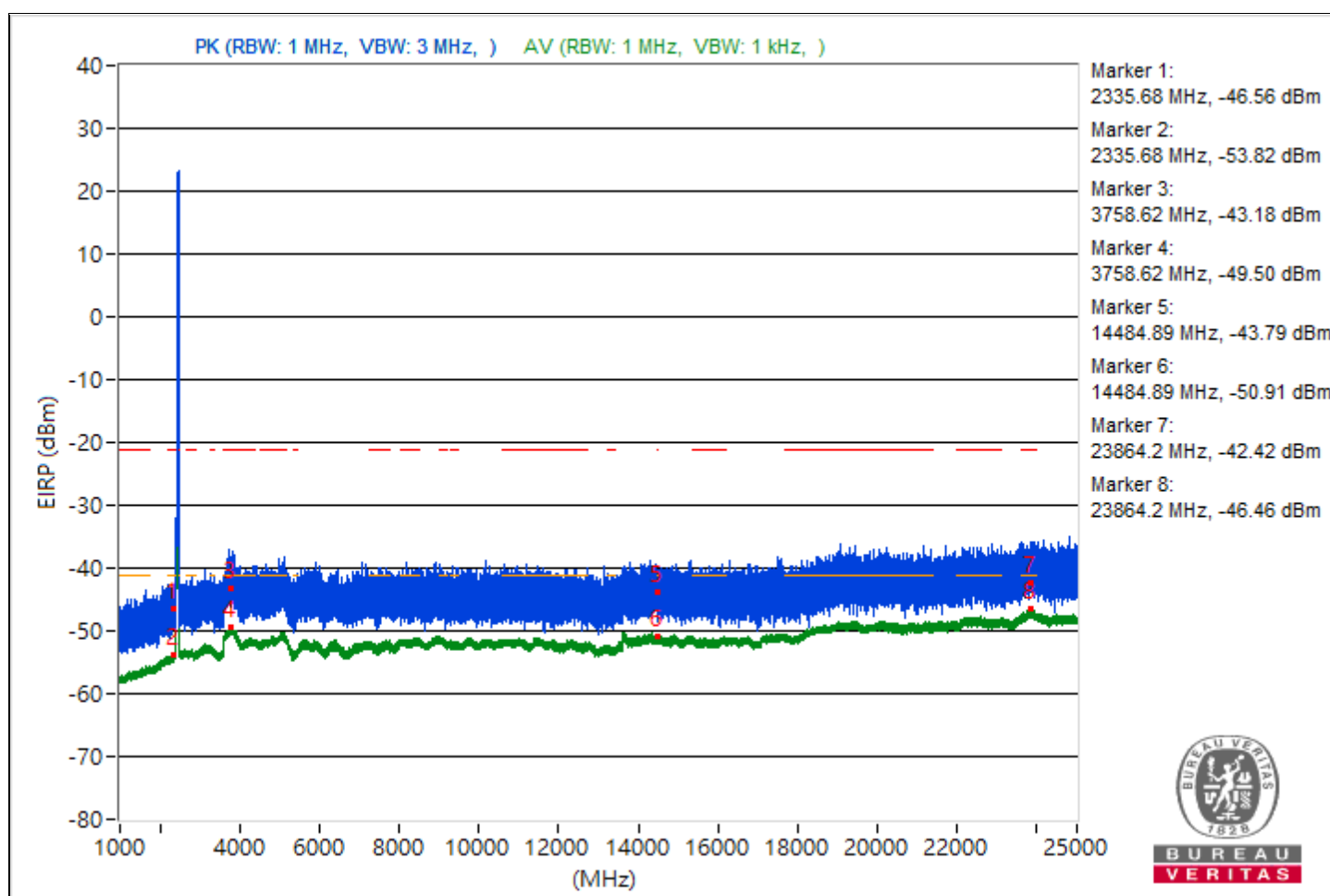
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2335.68	48.7 PK	74	-25.3	-51.72	5.16	-46.56
2	2335.68	41.44 AV	54	-12.56	-58.98	5.16	-53.82
3	3758.62	52.08 PK	74	-21.92	-48.34	5.16	-43.18
4	3758.62	45.76 AV	54	-8.24	-54.66	5.16	-49.5
5	14484.89	51.47 PK	74	-22.53	-48.95	5.16	-43.79
6	14484.89	44.35 AV	54	-9.65	-56.07	5.16	-50.91
7	23864.2	52.84 PK	74	-21.16	-47.58	5.16	-42.42
8	23864.2	48.8 AV	54	-5.2	-51.62	5.16	-46.46

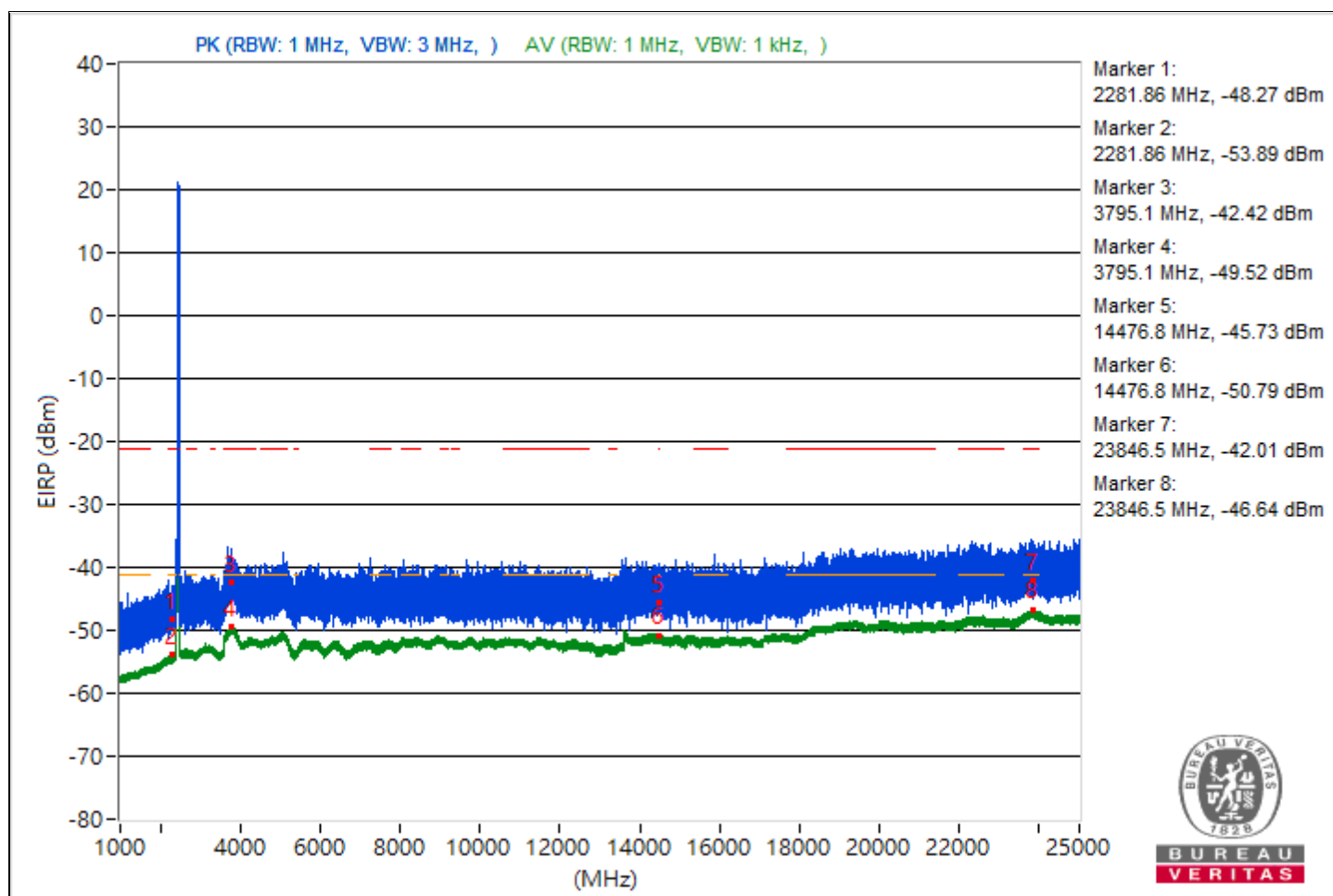
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2281.86	46.99 PK	74	-27.01	-53.43	5.16	-48.27
2	2281.86	41.37 AV	54	-12.63	-59.05	5.16	-53.89
3	3795.1	52.84 PK	74	-21.16	-47.58	5.16	-42.42
4	3795.1	45.74 AV	54	-8.26	-54.68	5.16	-49.52
5	14476.8	49.53 PK	74	-24.47	-50.89	5.16	-45.73
6	14476.8	44.47 AV	54	-9.53	-55.95	5.16	-50.79
7	23846.5	53.25 PK	74	-20.75	-47.17	5.16	-42.01
8	23846.5	48.62 AV	54	-5.38	-51.8	5.16	-46.64

Note: Margin value = Emission Level - Limit value



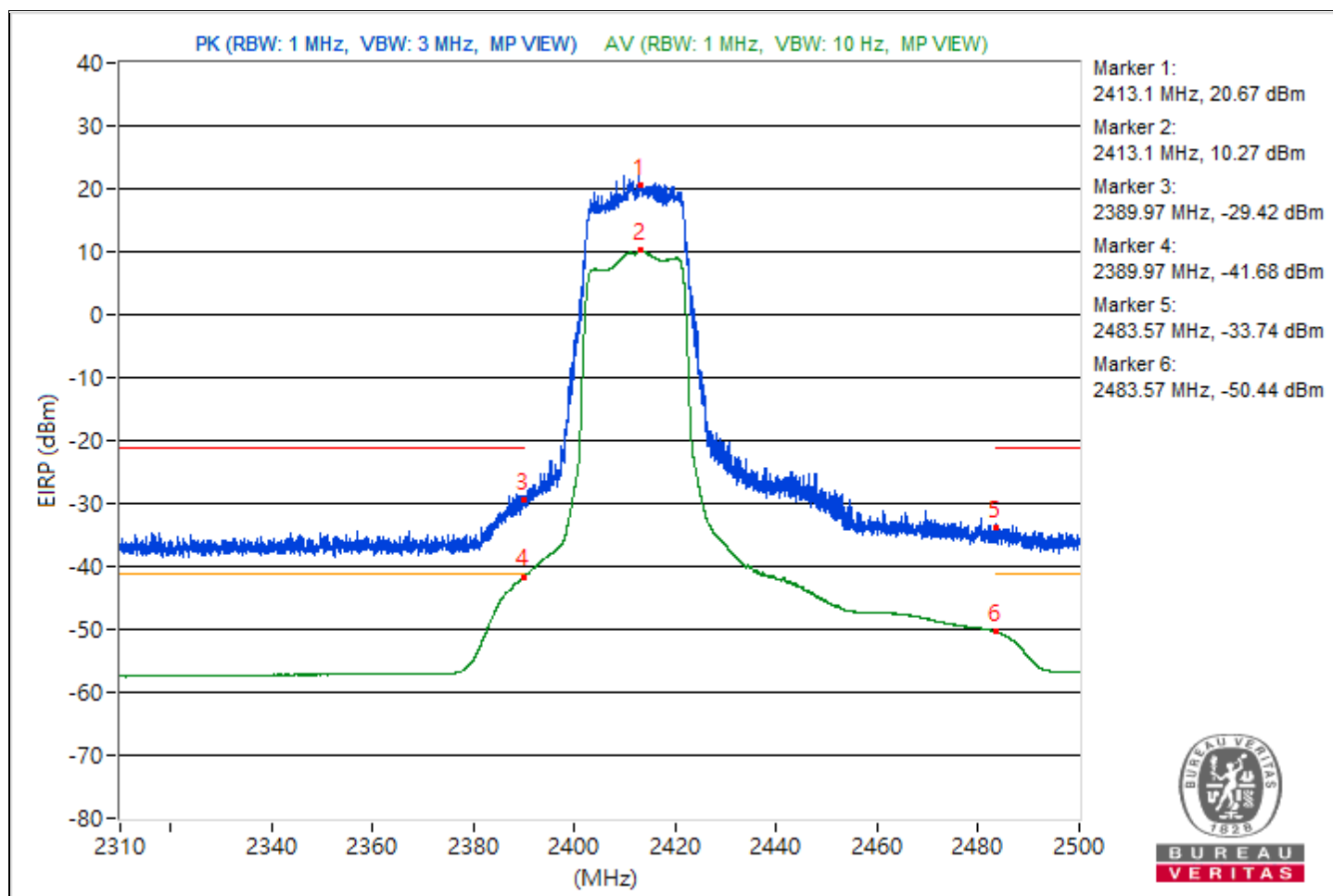
Conducted Band Edges

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2413.1	115.93 PK			17.14	3.53	20.67
2	*2413.1	105.53 AV			6.74	3.53	10.27
3	2389.97	65.84 PK	74	-8.16	-32.95	3.53	-29.42
4	2389.97	53.58 AV	54	-0.42	-45.21	3.53	-41.68
5	2483.57	61.52 PK	74	-12.48	-37.27	3.53	-33.74
6	2483.57	44.82 AV	54	-9.18	-53.97	3.53	-50.44

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

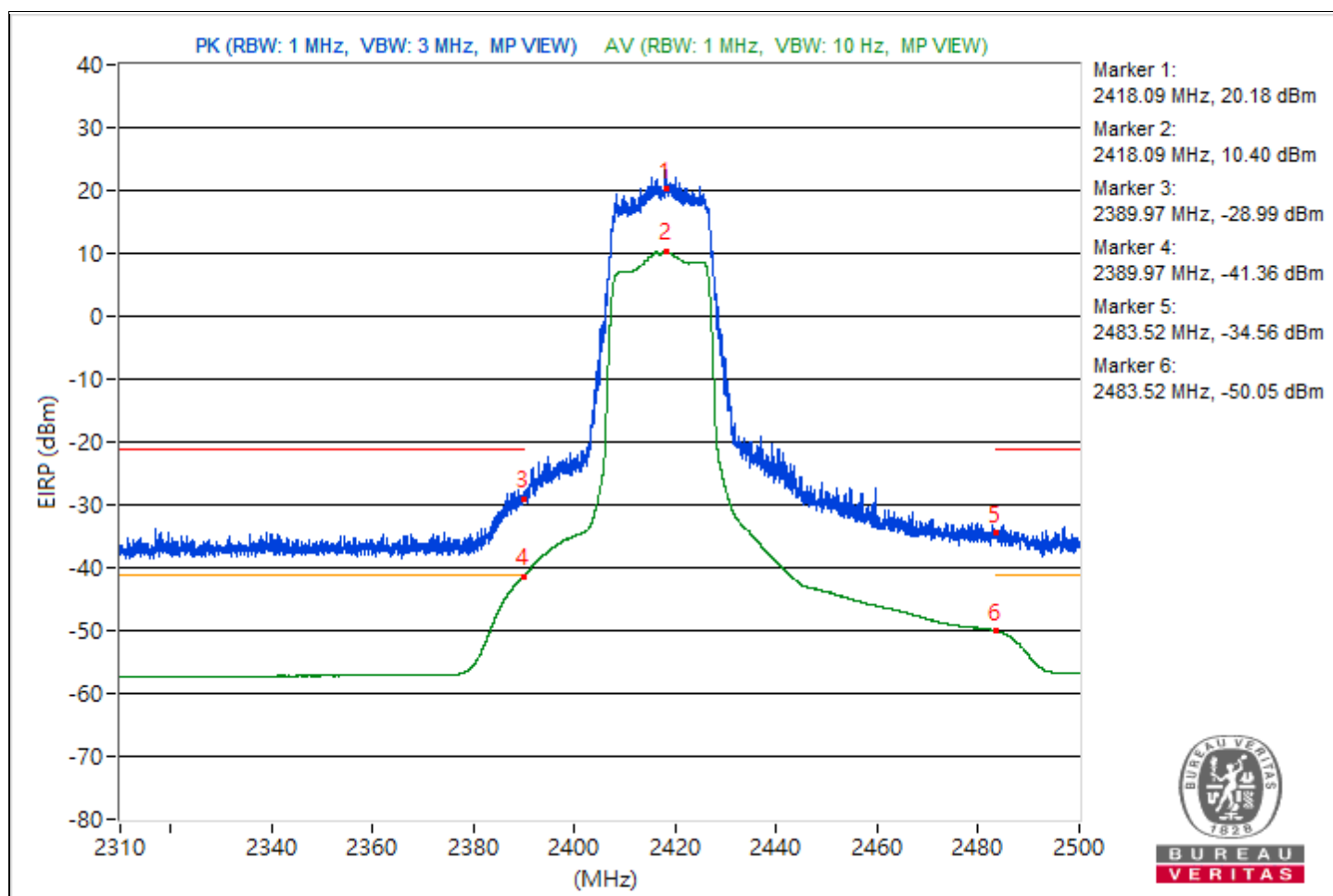


RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2418.09	115.44 PK			16.65	3.53	20.18
2	*2418.09	105.66 AV			6.87	3.53	10.4
3	2389.97	66.27 PK	74	-7.73	-32.52	3.53	-28.99
4	2389.97	53.9 AV	54	-0.1	-44.89	3.53	-41.36
5	2483.52	60.7 PK	74	-13.3	-38.09	3.53	-34.56
6	2483.52	45.21 AV	54	-8.79	-53.58	3.53	-50.05

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

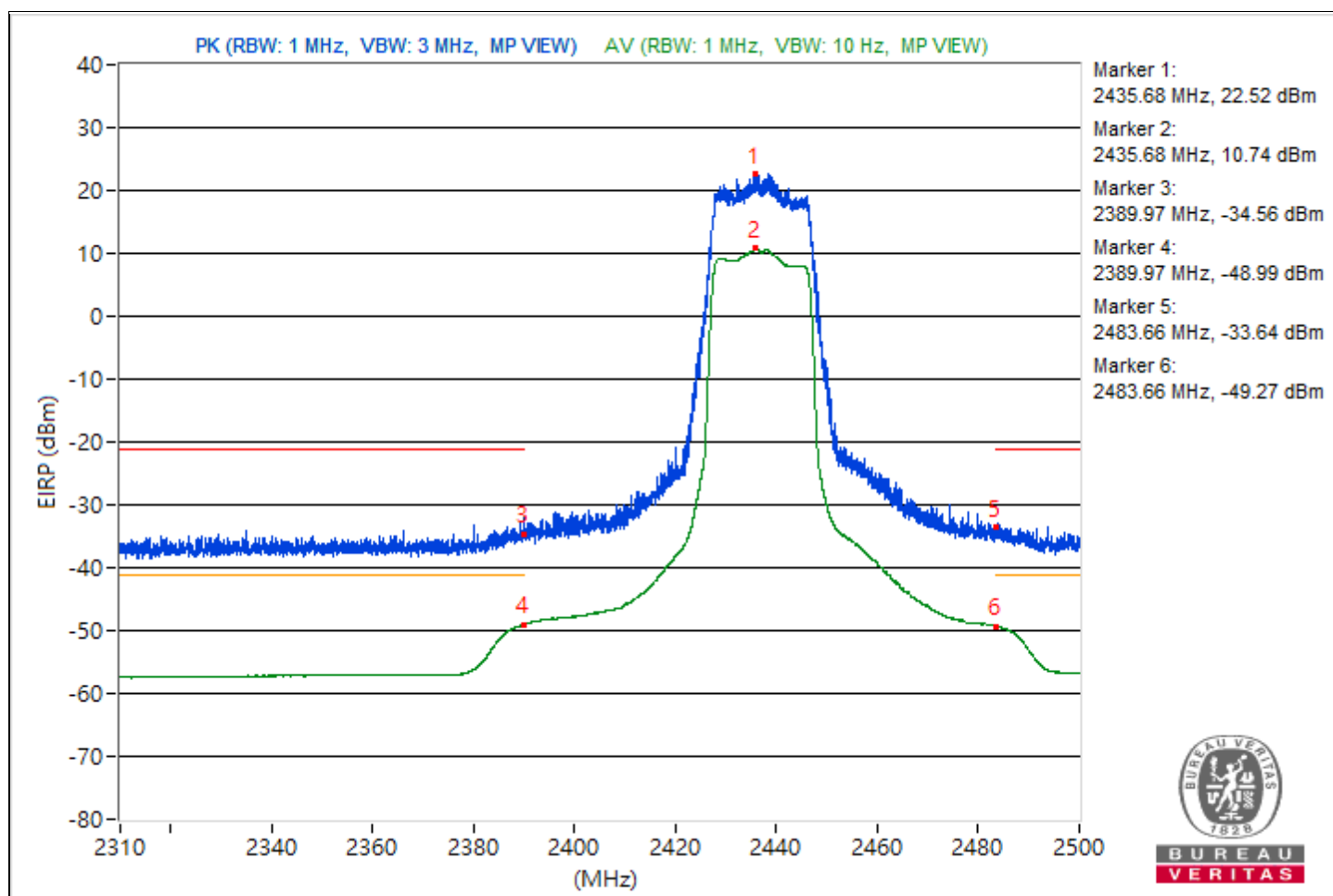


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2435.68	117.78 PK			18.99	3.53	22.52
2	*2435.68	106 AV			7.21	3.53	10.74
3	2389.97	60.7 PK	74	-13.3	-38.09	3.53	-34.56
4	2389.97	46.27 AV	54	-7.73	-52.52	3.53	-48.99
5	2483.66	61.62 PK	74	-12.38	-37.17	3.53	-33.64
6	2483.66	45.99 AV	54	-8.01	-52.8	3.53	-49.27

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

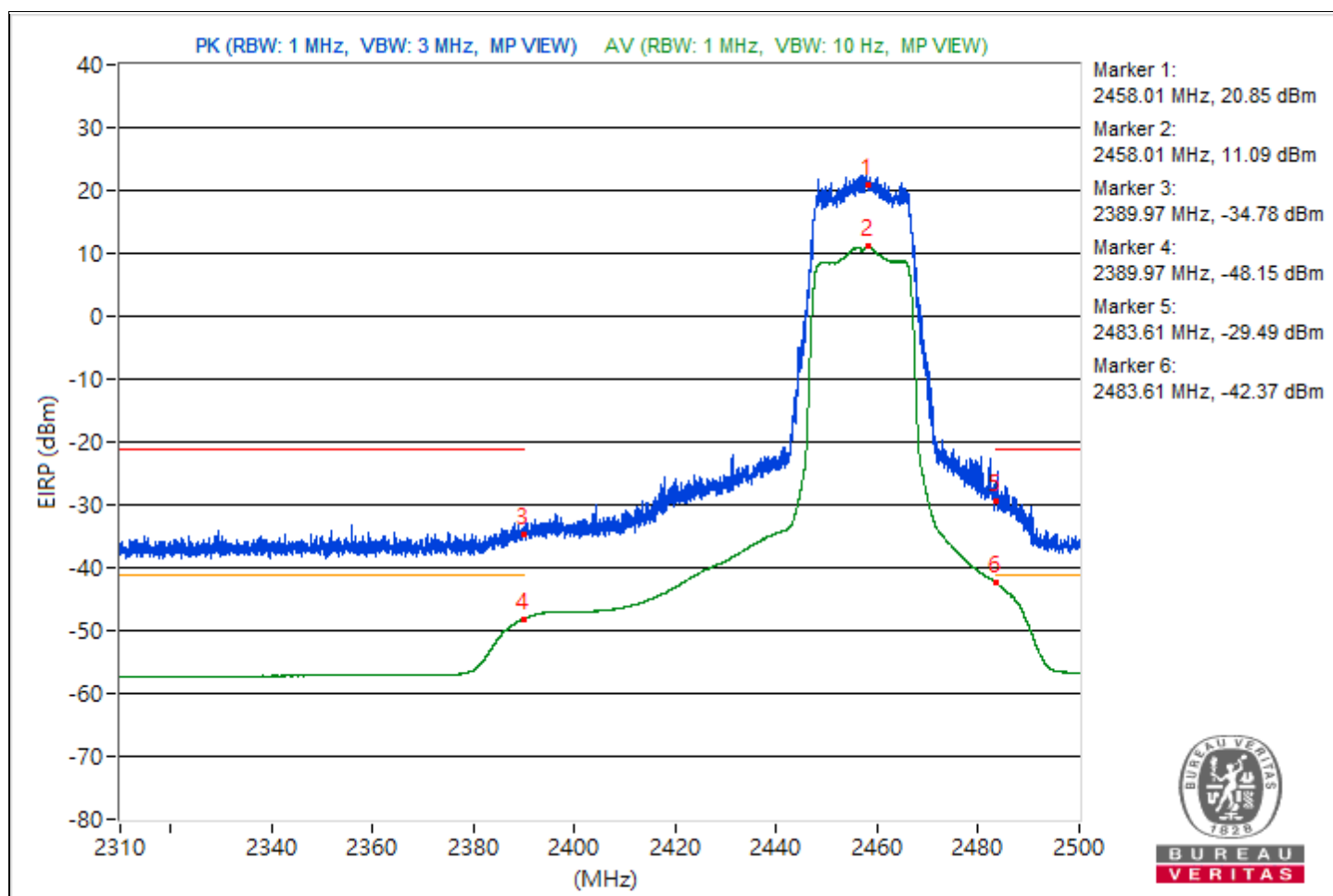


RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2458.01	116.11 PK			17.32	3.53	20.85
2	*2458.01	106.35 AV			7.56	3.53	11.09
3	2389.97	60.48 PK	74	-13.52	-38.31	3.53	-34.78
4	2389.97	47.11 AV	54	-6.89	-51.68	3.53	-48.15
5	2483.61	65.77 PK	74	-8.23	-33.02	3.53	-29.49
6	2483.61	52.89 AV	54	-1.11	-45.9	3.53	-42.37

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

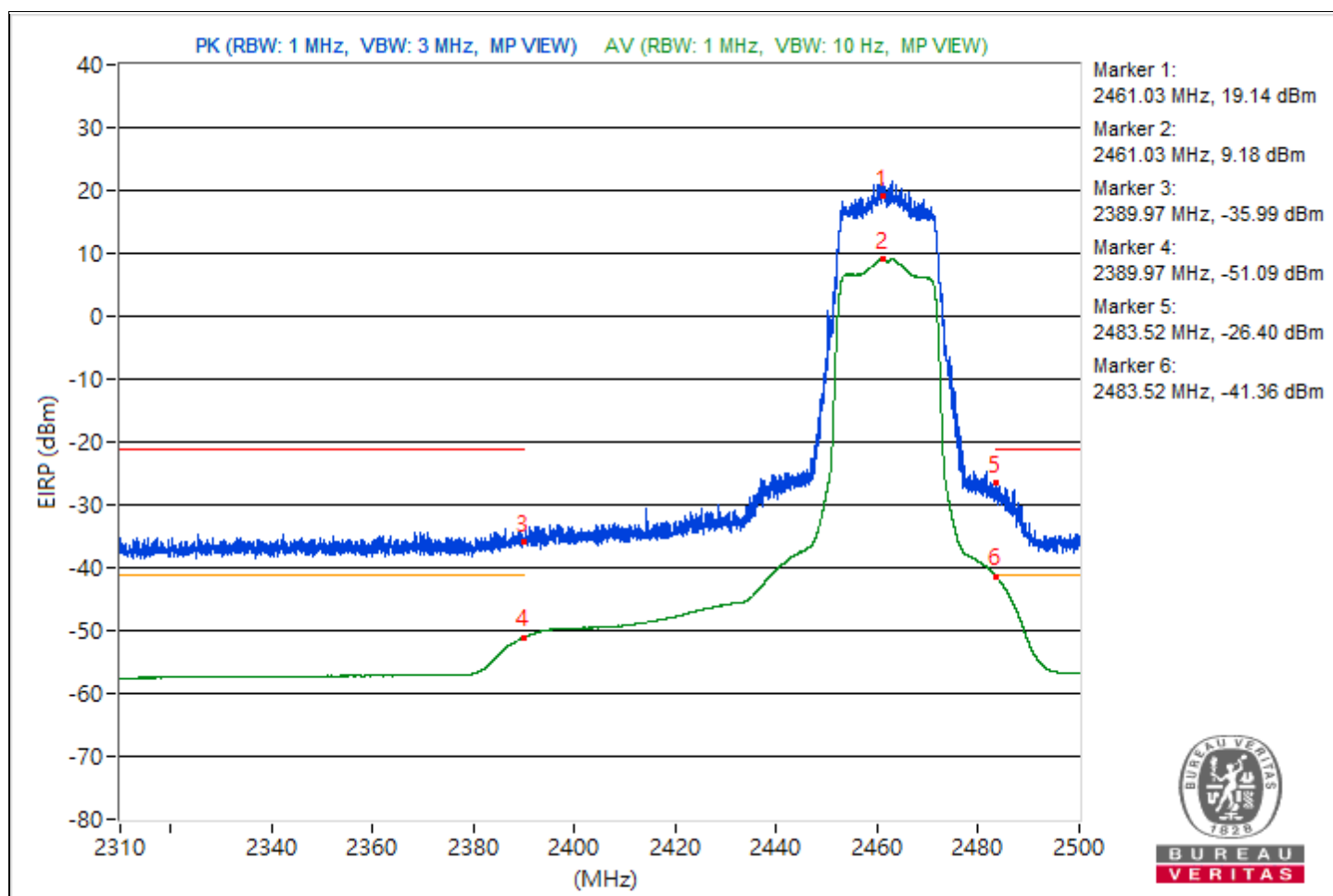


RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2461.03	114.4 PK			15.61	3.53	19.14
2	*2461.03	104.44 AV			5.65	3.53	9.18
3	2389.97	59.27 PK	74	-14.73	-39.52	3.53	-35.99
4	2389.97	44.17 AV	54	-9.83	-54.62	3.53	-51.09
5	2483.52	68.86 PK	74	-5.14	-29.93	3.53	-26.4
6	2483.52	53.9 AV	54	-0.1	-44.89	3.53	-41.36

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



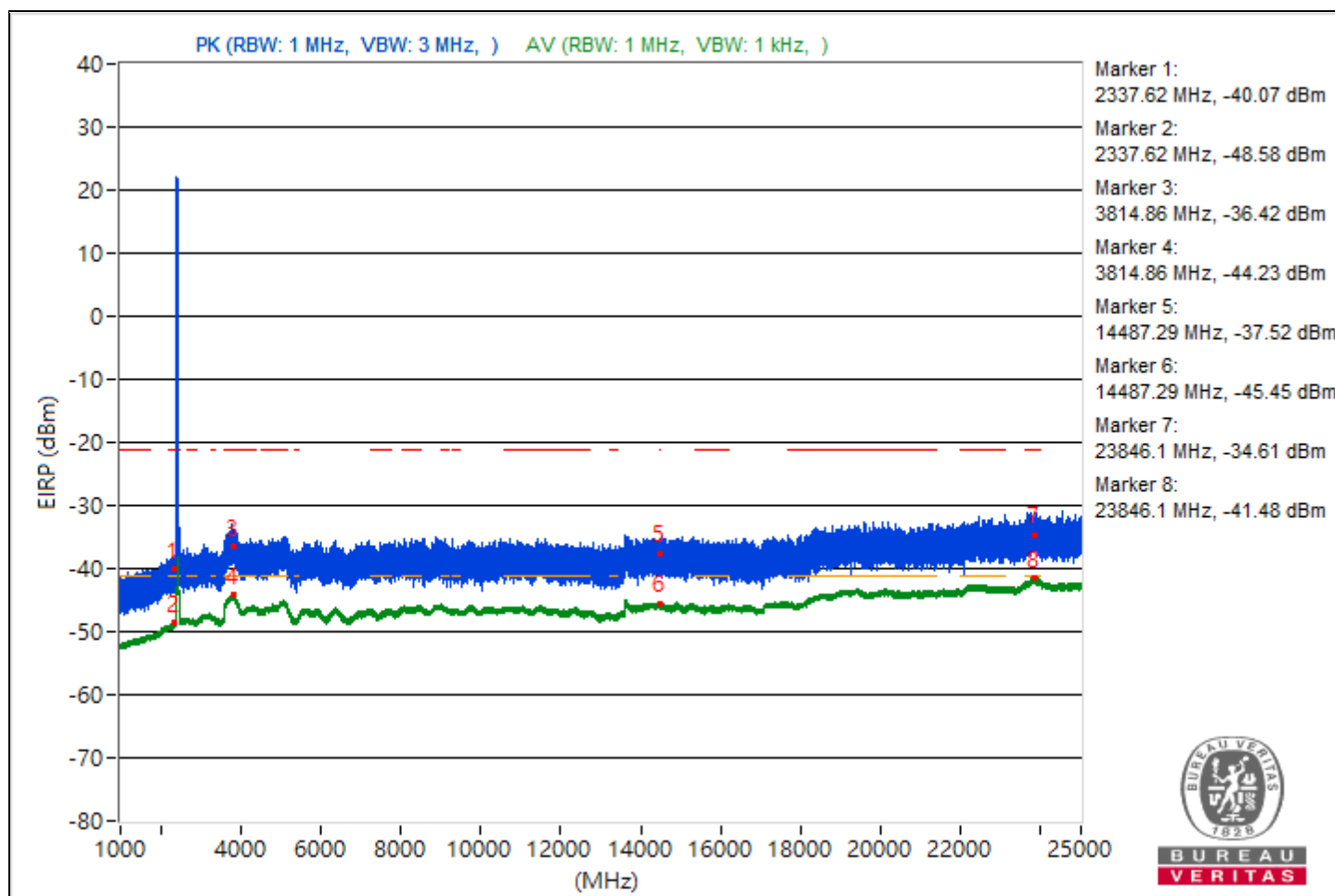
2Tx

Conducted Unwanted Emissions

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2337.62	55.19 PK	74	-18.81	-50.03	-52.94	8.17	-40.07
2	2337.62	46.68 AV	54	-7.32	-59.95	-59.58	8.17	-48.58
3	3814.86	58.84 PK	74	-15.16	-46.96	-48.35	8.17	-36.42
4	3814.86	51.03 AV	54	-2.97	-55.18	-55.65	8.17	-44.23
5	14487.29	57.74 PK	74	-16.26	-47.74	-49.92	8.17	-37.52
6	14487.29	49.81 AV	54	-4.19	-56.82	-56.45	8.17	-45.45
7	23846.1	60.65 PK	74	-13.35	-44.71	-47.23	8.17	-34.61
8	23846.1	53.78 AV	54	-0.22	-52.29	-53.06	8.17	-41.48

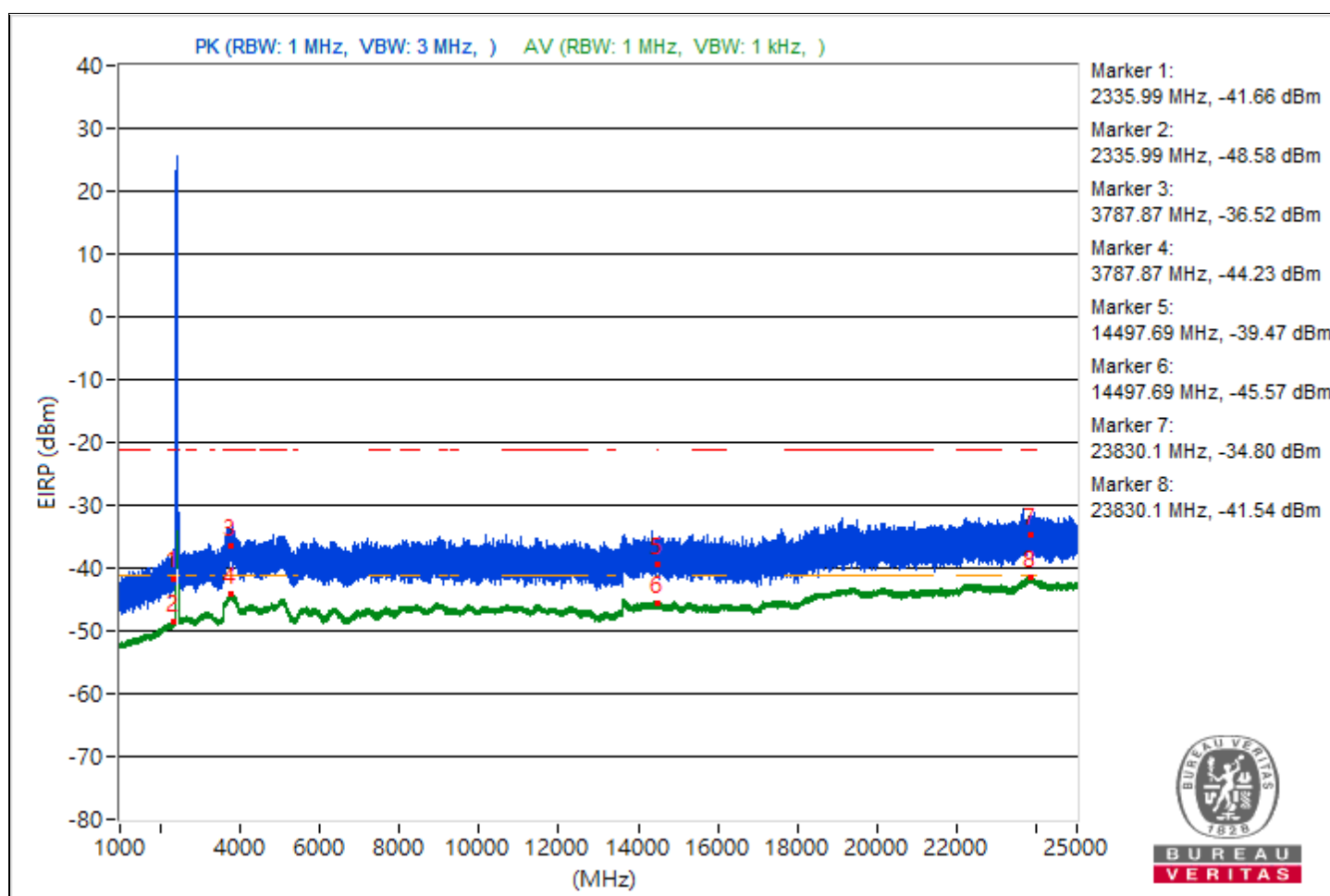
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2335.99	53.6 PK	74	-20.4	-52.14	-53.67	8.17	-41.66
2	2335.99	46.68 AV	54	-7.32	-59.49	-60.05	8.17	-48.58
3	3787.87	58.74 PK	74	-15.26	-49.44	-46.46	8.17	-36.52
4	3787.87	51.03 AV	54	-2.97	-55.61	-55.22	8.17	-44.23
5	14497.69	55.79 PK	74	-18.21	-52.14	-49.54	8.17	-39.47
6	14497.69	49.69 AV	54	-4.31	-56.45	-57.08	8.17	-45.57
7	23830.1	60.46 PK	74	-13.54	-44.63	-47.94	8.17	-34.8
8	23830.1	53.72 AV	54	-0.28	-52.38	-53.08	8.17	-41.54

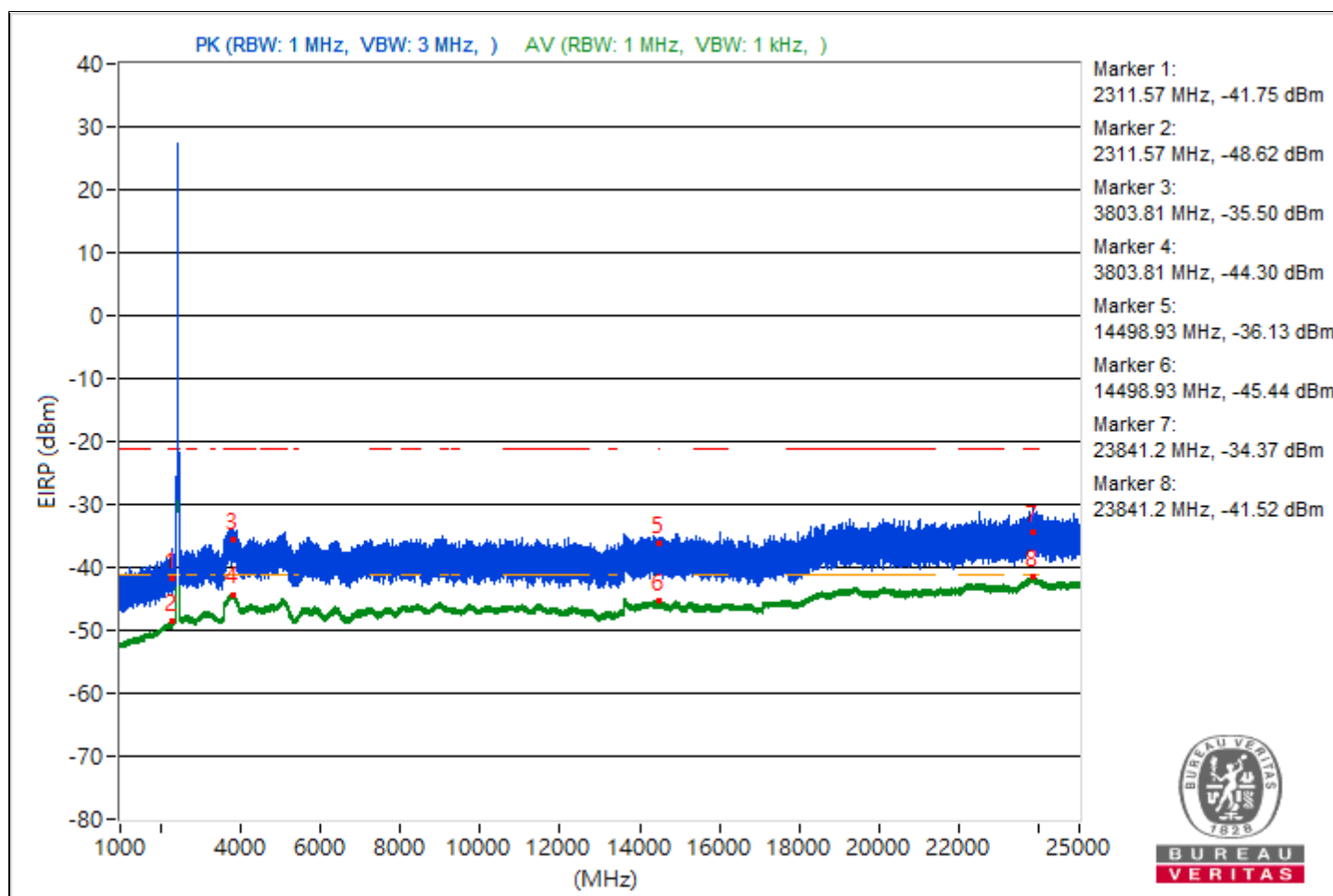
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2311.57	53.51 PK	74	-20.49	-53.2	-52.68	8.17	-41.75
2	2311.57	46.64 AV	54	-7.36	-59.67	-59.94	8.17	-48.62
3	3803.81	59.76 PK	74	-14.24	-48.11	-45.61	8.17	-35.5
4	3803.81	50.96 AV	54	-3.04	-55.23	-55.76	8.17	-44.3
5	14498.93	59.13 PK	74	-14.87	-49.13	-46.03	8.17	-36.13
6	14498.93	49.82 AV	54	-4.18	-56.57	-56.66	8.17	-45.44
7	23841.2	60.89 PK	74	-13.11	-45.65	-45.45	8.17	-34.37
8	23841.2	53.74 AV	54	-0.26	-52.93	-52.48	8.17	-41.52

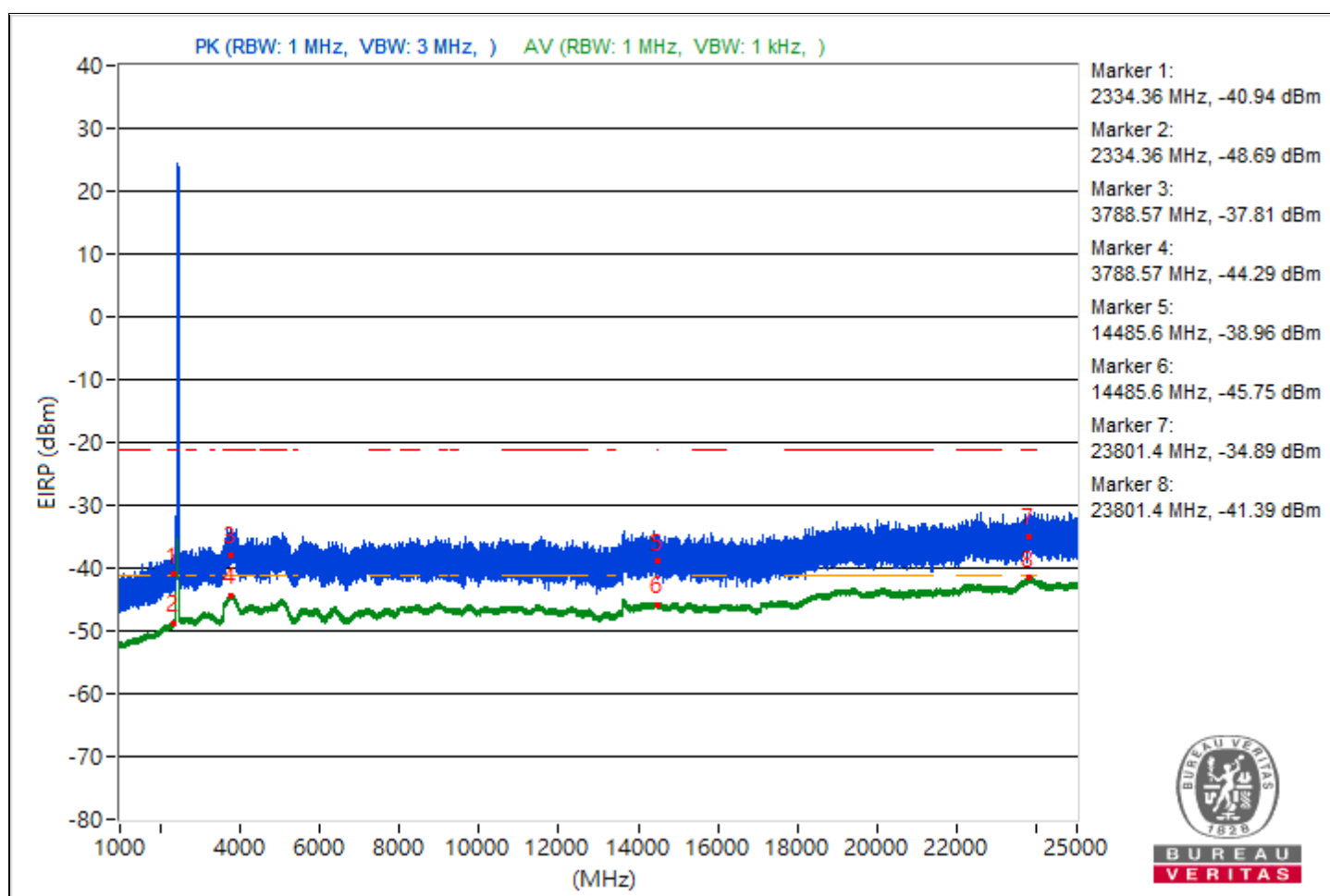
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2334.36	54.32 PK	74	-19.68	-52.41	-51.85	8.17	-40.94
2	2334.36	46.57 AV	54	-7.43	-59.57	-60.2	8.17	-48.69
3	3788.57	57.45 PK	74	-16.55	-48.69	-49.33	8.17	-37.81
4	3788.57	50.97 AV	54	-3.03	-55.23	-55.72	8.17	-44.29
5	14485.6	56.3 PK	74	-17.7	-50.43	-49.87	8.17	-38.96
6	14485.6	49.51 AV	54	-4.49	-56.54	-57.35	8.17	-45.75
7	23801.4	60.37 PK	74	-13.63	-47.08	-45.26	8.17	-34.89
8	23801.4	53.87 AV	54	-0.13	-52.37	-52.77	8.17	-41.39

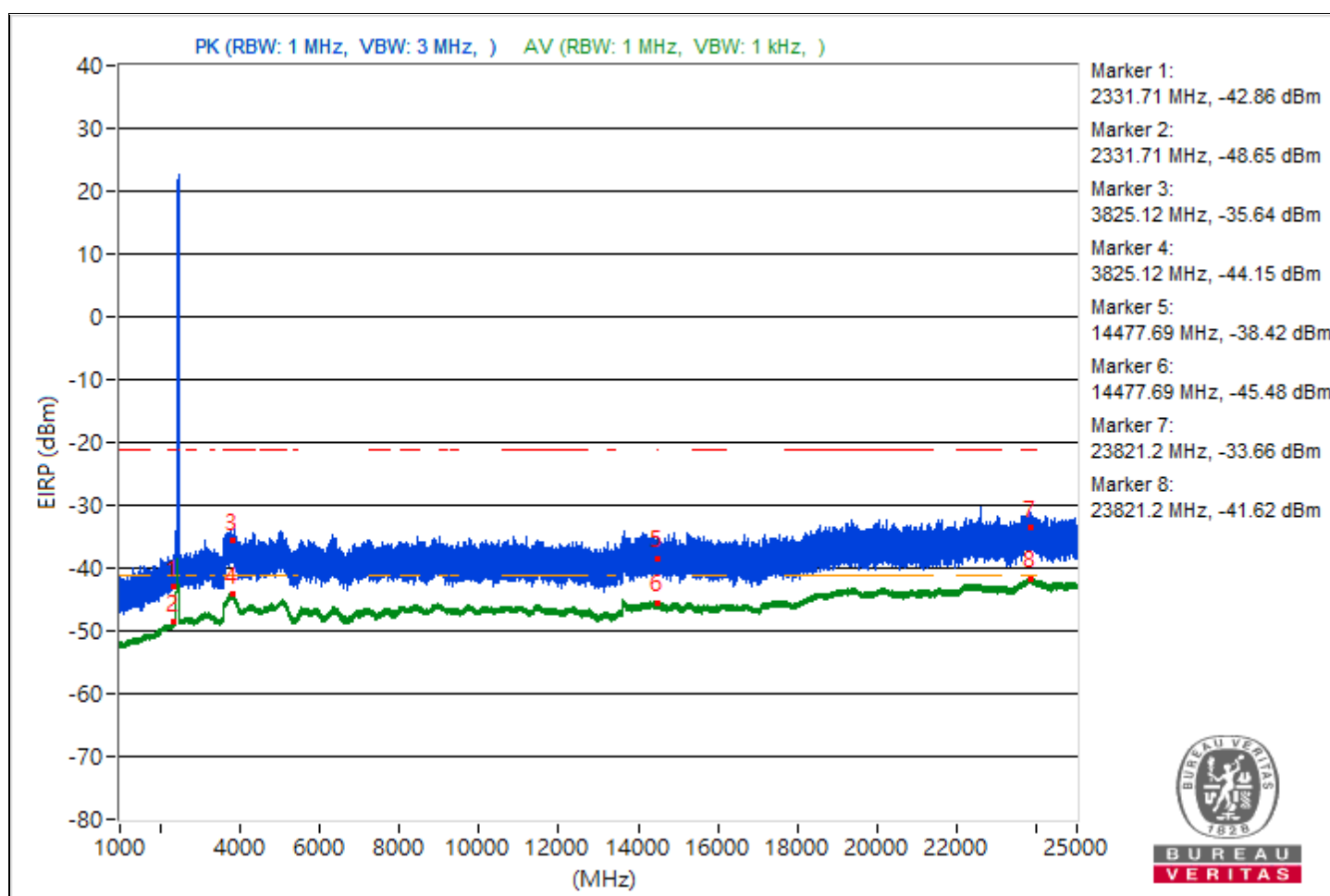
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2331.71	52.4 PK	74	-21.6	-53.8	-54.3	8.17	-42.86
2	2331.71	46.61 AV	54	-7.39	-59.67	-60.01	8.17	-48.65
3	3825.12	59.62 PK	74	-14.38	-45.18	-49.49	8.17	-35.64
4	3825.12	51.11 AV	54	-2.89	-55.15	-55.52	8.17	-44.15
5	14477.69	56.84 PK	74	-17.16	-49.2	-50.05	8.17	-38.42
6	14477.69	49.78 AV	54	-4.22	-56.47	-56.86	8.17	-45.48
7	23821.2	61.6 PK	74	-12.4	-44.12	-45.69	8.17	-33.66
8	23821.2	53.64 AV	54	-0.36	-53.2	-52.43	8.17	-41.62

Note: Margin value = Emission Level - Limit value



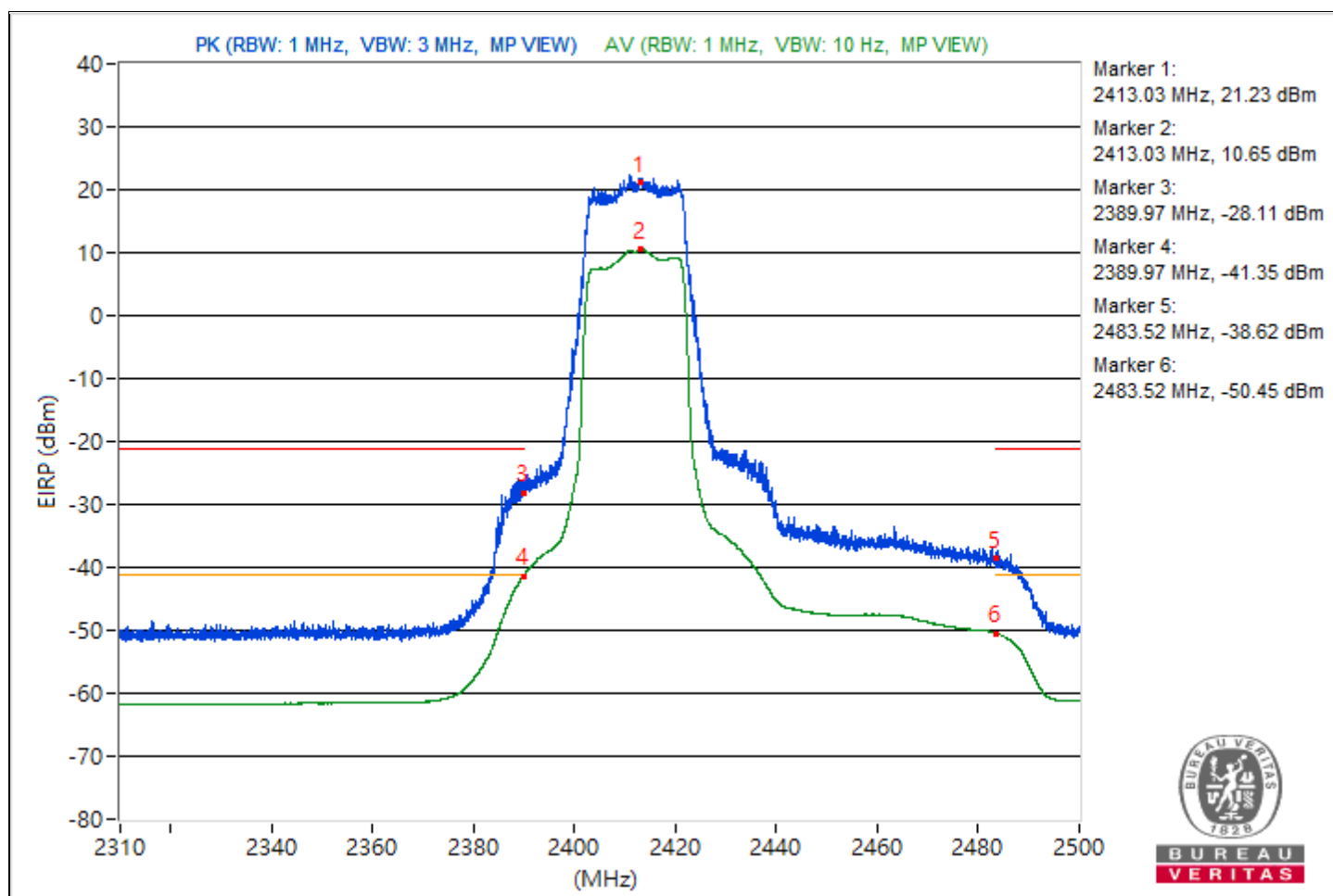
Conducted Band Edges

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2413.03	116.49 PK			11.94	11.39	6.54	21.23
2	*2413.03	105.91 AV			0.84	1.34	6.54	10.65
3	2389.97	67.15 PK	74	-6.85	-41.52	-35.65	6.54	-28.11
4	2389.97	53.91 AV	54	-0.09	-53.82	-49.17	6.54	-41.35
5	2483.52	56.64 PK	74	-17.36	-47.89	-48.47	6.54	-38.62
6	2483.52	44.81 AV	54	-9.19	-59.51	-60.57	6.54	-50.45

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

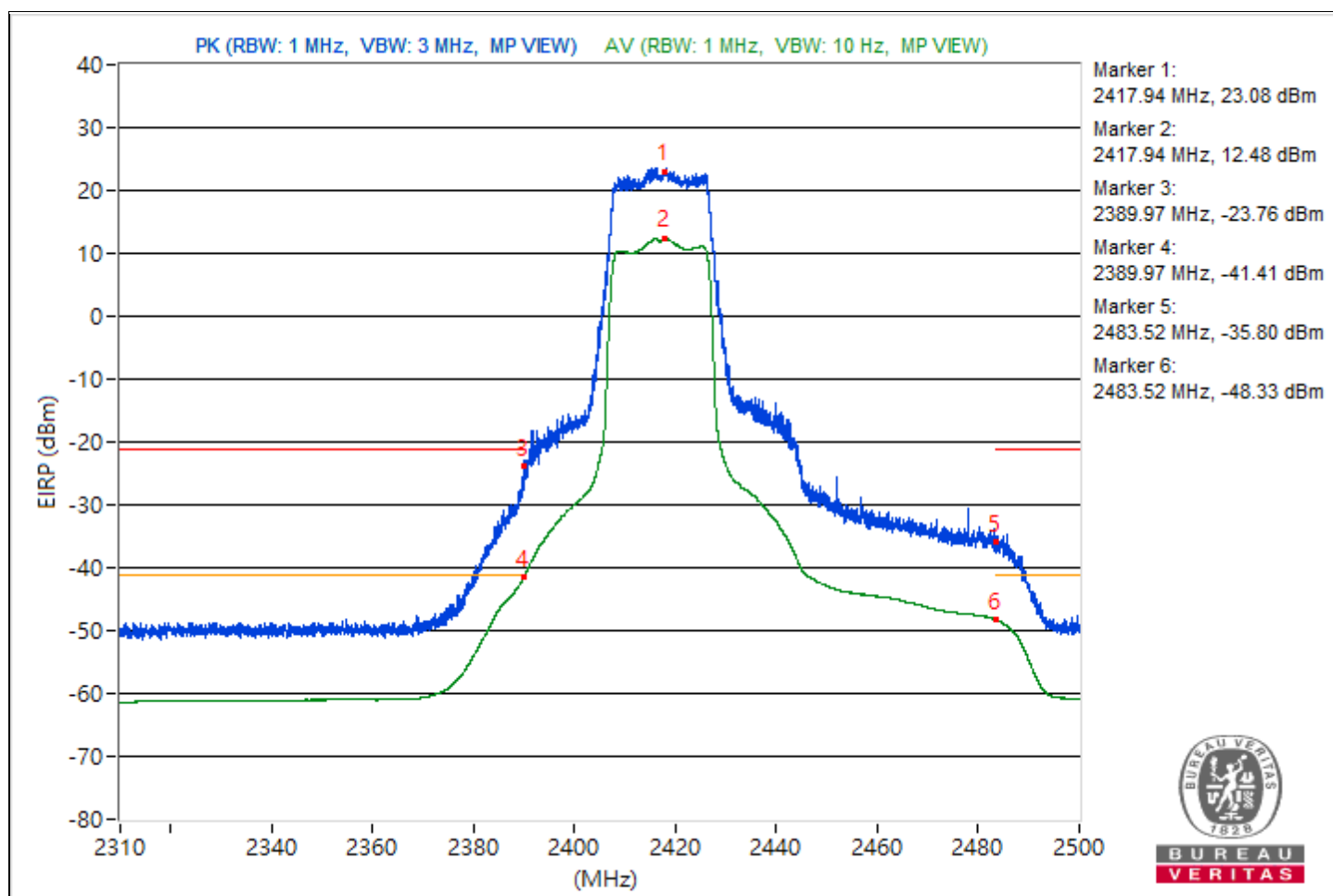


RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2417.94	118.34 PK			13.44	13.61	6.54	23.08
2	*2417.94	107.74 AV			2.73	3.12	6.54	12.48
3	2389.97	71.5 PK	74	-2.5	-37.21	-31.29	6.54	-23.76
4	2389.97	53.85 AV	54	-0.15	-52.12	-50.04	6.54	-41.41
5	2483.52	59.46 PK	74	-14.54	-45.85	-44.91	6.54	-35.8
6	2483.52	46.93 AV	54	-7.07	-57.89	-57.88	6.54	-48.33

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

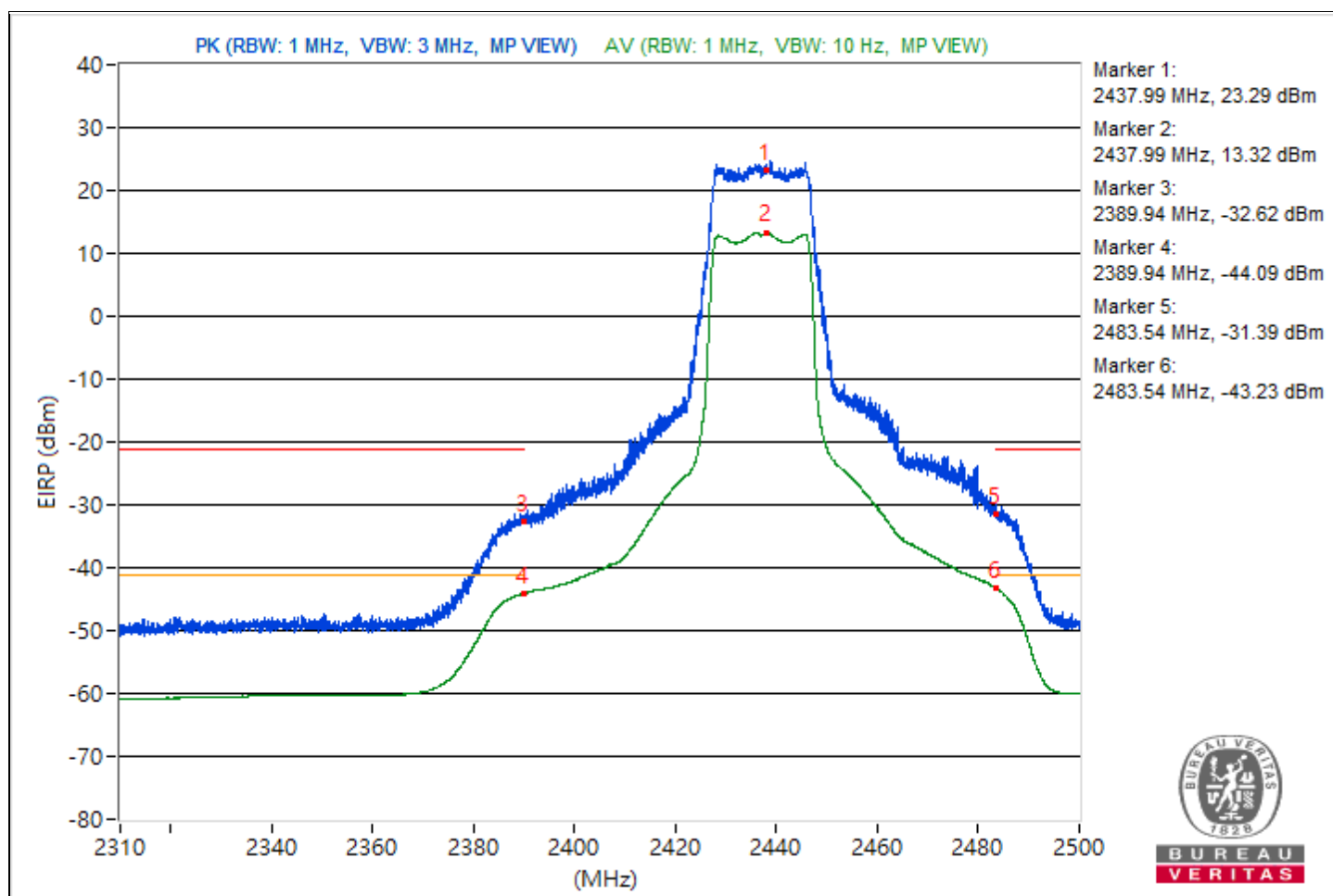


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2437.99	118.55 PK			13.76	13.72	6.54	23.29
2	*2437.99	108.58 AV			3.65	3.89	6.54	13.32
3	2389.94	62.64 PK	74	-11.36	-41.13	-43.55	6.54	-32.62
4	2389.94	51.17 AV	54	-2.83	-52.73	-54.79	6.54	-44.09
5	2483.54	63.87 PK	74	-10.13	-41.14	-40.75	6.54	-31.39
6	2483.54	52.03 AV	54	-1.97	-52.93	-52.64	6.54	-43.23

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

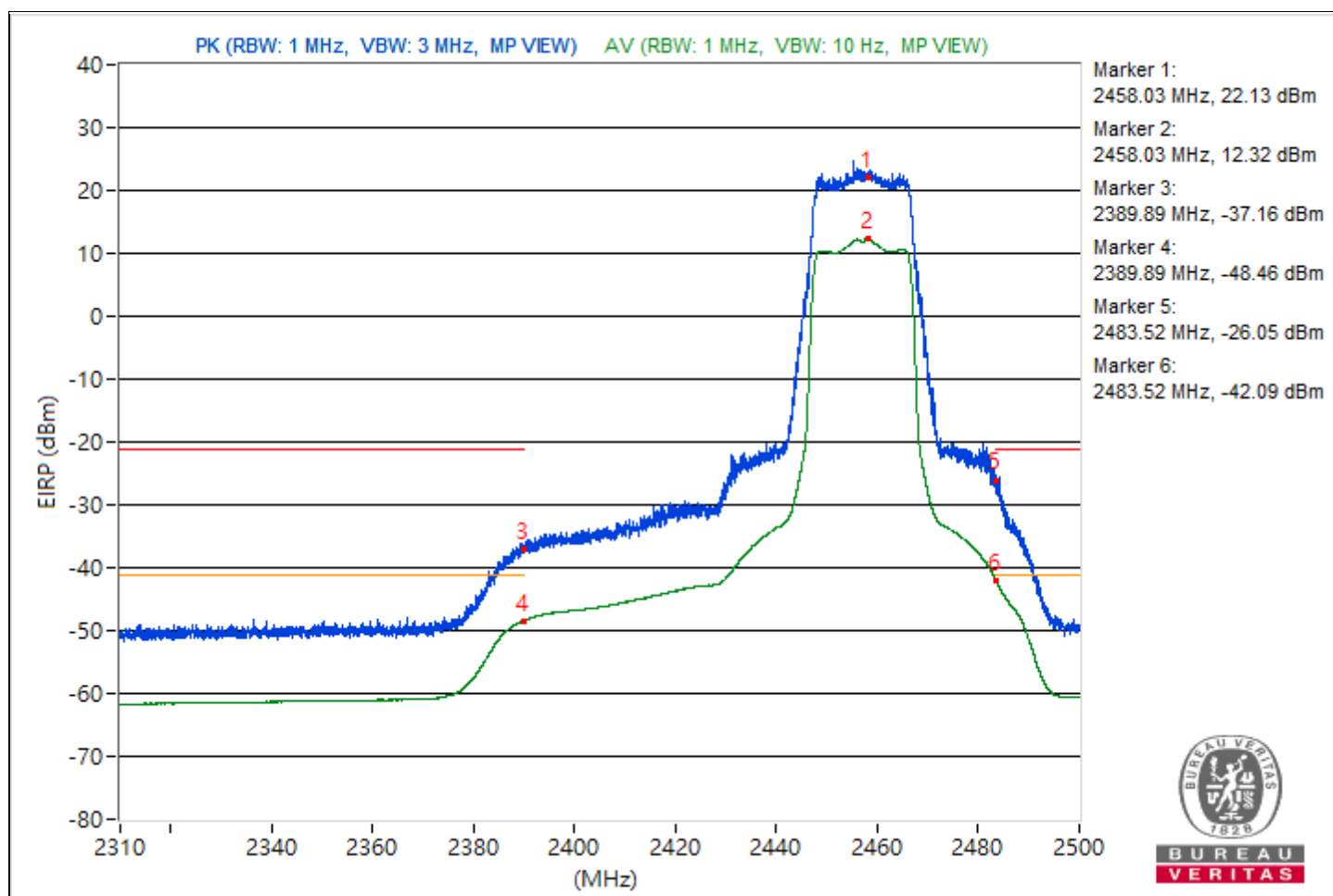


RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2458.03	117.39 PK			12.3	12.85	6.54	22.13
2	*2458.03	107.58 AV			2.6	2.94	6.54	12.32
3	2389.89	58.1 PK	74	-15.9	-45.16	-49.12	6.54	-37.16
4	2389.89	46.8 AV	54	-7.2	-56.76	-59.79	6.54	-48.46
5	2483.52	69.21 PK	74	-4.79	-35.54	-35.66	6.54	-26.05
6	2483.52	53.17 AV	54	-0.83	-52.88	-50.67	6.54	-42.09

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

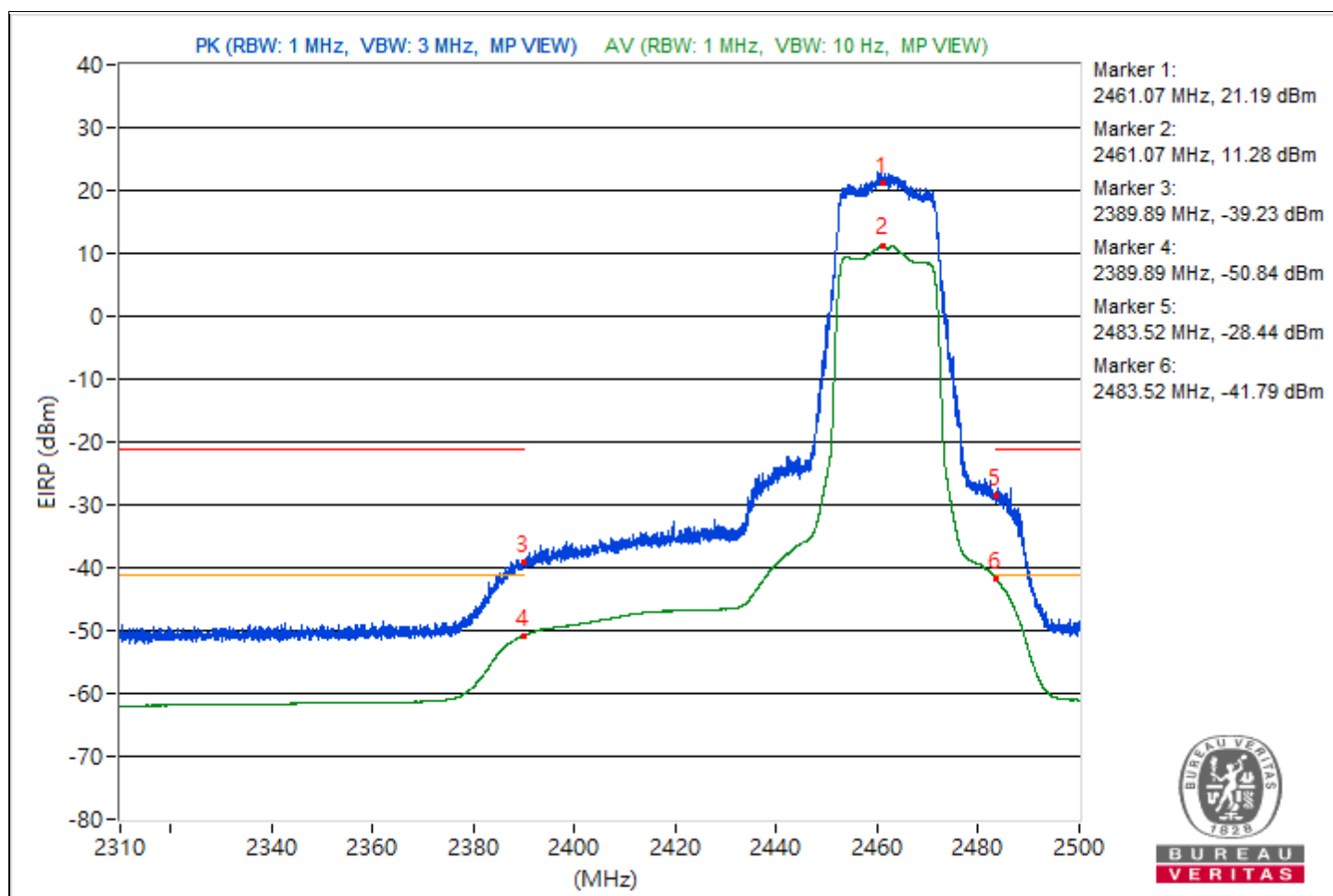


RF Mode	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	20°C, 60% RH
Tested By	Katina Lu		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2461.07	116.45 PK			10.73	12.4	6.54	21.19
2	*2461.07	106.54 AV			1.54	1.91	6.54	11.28
3	2389.89	56.03 PK	74	-17.97	-47.4	-50.8	6.54	-39.23
4	2389.89	44.42 AV	54	-9.58	-59.21	-62	6.54	-50.84
5	2483.52	66.82 PK	74	-7.18	-38.98	-37.19	6.54	-28.44
6	2483.52	53.47 AV	54	-0.53	-51.73	-50.98	6.54	-41.79

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



Mode B_1TX

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4824.00	43.2 PK	74.0	-30.8	1.33 H	22	38.9	4.3
2	4824.00	31.4 AV	54.0	-22.6	1.33 H	22	27.1	4.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4824.00	44.9 PK	74.0	-29.1	2.35 V	22	40.6	4.3
2	4824.00	33.8 AV	54.0	-20.2	2.35 V	22	29.5	4.3

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.

RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4834.00	43.1 PK	74.0	-30.9	1.29 H	16	38.8	4.3
2	4834.00	31.1 AV	54.0	-22.9	1.29 H	16	26.8	4.3
3	7251.00	44.5 PK	74.0	-29.5	1.10 H	47	33.4	11.1
4	7251.00	33.3 AV	54.0	-20.7	1.10 H	47	22.2	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4834.00	44.8 PK	74.0	-29.2	2.39 V	36	40.5	4.3
2	4834.00	33.5 AV	54.0	-20.5	2.39 V	36	29.2	4.3
3	7251.00	45.4 PK	74.0	-28.6	1.77 V	67	34.3	11.1
4	7251.00	34.2 AV	54.0	-19.8	1.77 V	67	23.1	11.1

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.

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4874.00	43.4 PK	74.0	-30.6	1.28 H	31	39.0	4.4
2	4874.00	31.7 AV	54.0	-22.3	1.28 H	31	27.3	4.4
3	7311.00	44.7 PK	74.0	-29.3	1.16 H	54	33.8	10.9
4	7311.00	33.5 AV	54.0	-20.5	1.16 H	54	22.6	10.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4874.00	45.6 PK	74.0	-28.4	2.32 V	11	41.2	4.4
2	4874.00	34.6 AV	54.0	-19.4	2.32 V	11	30.2	4.4
3	7311.00	45.1 PK	74.0	-28.9	1.72 V	72	34.2	10.9
4	7311.00	34.1 AV	54.0	-19.9	1.72 V	72	23.2	10.9

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4914.00	43.3 PK	74.0	-30.7	1.28 H	41	38.8	4.5
2	4914.00	31.6 AV	54.0	-22.4	1.28 H	41	27.1	4.5
3	7371.00	44.9 PK	74.0	-29.1	1.18 H	40	33.9	11.0
4	7371.00	33.9 AV	54.0	-20.1	1.18 H	40	22.9	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4914.00	45.1 PK	74.0	-28.9	2.36 V	19	40.6	4.5
2	4914.00	34.1 AV	54.0	-19.9	2.36 V	19	29.6	4.5
3	7371.00	45.3 PK	74.0	-28.7	1.71 V	78	34.3	11.0
4	7371.00	34.3 AV	54.0	-19.7	1.71 V	78	23.3	11.0

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.

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924.00	42.5 PK	74.0	-31.5	1.27 H	9	38.0	4.5
2	4924.00	30.6 AV	54.0	-23.4	1.27 H	9	26.1	4.5
3	7386.00	44.1 PK	74.0	-29.9	1.11 H	61	32.9	11.2
4	7386.00	33.1 AV	54.0	-20.9	1.11 H	61	21.9	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4924.00	44.3 PK	74.0	-29.7	2.38 V	43	39.8	4.5
2	4924.00	32.5 AV	54.0	-21.5	2.38 V	43	28.0	4.5
3	7386.00	45.1 PK	74.0	-28.9	1.80 V	74	33.9	11.2
4	7386.00	34.1 AV	54.0	-19.9	1.80 V	74	22.9	11.2

Remarks:

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

2TX

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4824.00	44.1 PK	74.0	-29.9	1.09 H	11	39.8	4.3
2	4824.00	32.6 AV	54.0	-21.4	1.09 H	11	28.3	4.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4824.00	45.7 PK	74.0	-28.3	2.41 V	352	41.4	4.3
2	4824.00	35.2 AV	54.0	-18.8	2.41 V	352	30.9	4.3

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.

RF Mode	802.11be (EHT20)	Channel	CH 2 : 2417 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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4834.00	45.7 PK	74.0	-28.3	1.12 H	20	41.4	4.3
2	4834.00	34.5 AV	54.0	-19.5	1.12 H	20	30.2	4.3
3	7251.00	45.2 PK	74.0	-28.8	1.31 H	50	34.1	11.1
4	7251.00	33.4 AV	54.0	-20.6	1.31 H	50	22.3	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4834.00	47.9 PK	74.0	-26.1	2.37 V	349	43.6	4.3
2	4834.00	37.1 AV	54.0	-16.9	2.37 V	349	32.8	4.3
3	7251.00	46.6 PK	74.0	-27.4	1.87 V	316	35.5	11.1
4	7251.00	33.9 AV	54.0	-20.1	1.87 V	316	22.8	11.1

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.

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4874.00	46.9 PK	74.0	-27.1	1.03 H	14	42.5	4.4
2	4874.00	35.9 AV	54.0	-18.1	1.03 H	14	31.5	4.4
3	7311.00	45.7 PK	74.0	-28.3	1.37 H	45	34.8	10.9
4	7311.00	33.6 AV	54.0	-20.4	1.37 H	45	22.7	10.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4874.00	49.2 PK	74.0	-24.8	2.34 V	358	44.8	4.4
2	4874.00	38.6 AV	54.0	-15.4	2.34 V	358	34.2	4.4
3	7311.00	46.1 PK	74.0	-27.9	1.91 V	316	35.2	10.9
4	7311.00	34.1 AV	54.0	-19.9	1.91 V	316	23.2	10.9

Remarks:

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

RF Mode	802.11be (EHT20)	Channel	CH 10 : 2457 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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4914.00	45.4 PK	74.0	-28.6	1.10 H	6	40.9	4.5
2	4914.00	34.1 AV	54.0	-19.9	1.10 H	6	29.6	4.5
3	7371.00	45.2 PK	74.0	-28.8	1.36 H	50	34.2	11.0
4	7371.00	33.2 AV	54.0	-20.8	1.36 H	50	22.2	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4914.00	47.2 PK	74.0	-26.8	2.42 V	354	42.7	4.5
2	4914.00	36.7 AV	54.0	-17.3	2.42 V	354	32.2	4.5
3	7371.00	45.9 PK	74.0	-28.1	1.84 V	317	34.9	11.0
4	7371.00	33.9 AV	54.0	-20.1	1.84 V	317	22.9	11.0

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.

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924.00	44.4 PK	74.0	-29.6	1.12 H	12	39.9	4.5
2	4924.00	32.9 AV	54.0	-21.1	1.12 H	12	28.4	4.5
3	7386.00	45.9 PK	74.0	-28.1	1.34 H	44	34.7	11.2
4	7386.00	33.9 AV	54.0	-20.1	1.34 H	44	22.7	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4924.00	45.3 PK	74.0	-28.7	2.44 V	342	40.8	4.5
2	4924.00	34.8 AV	54.0	-19.2	2.44 V	342	30.3	4.5
3	7386.00	46.4 PK	74.0	-27.6	1.86 V	314	35.2	11.2
4	7386.00	34.2 AV	54.0	-19.8	1.86 V	314	23.0	11.2

Remarks:

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

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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

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