

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBENL-WTW-P24060709A
FCC ID: RYK-290BEBT
Product: WiFi 7/BT module
Brand: Sparklan
Model No.: WNSQ-293BE(BT)
Series Model: WNFQ-290BE(BT), WNSQ-290BE(BT), WNFQ-293BE(BT)
Received Date: 2025/5/14
Test Date: 2025/6/9 ~ 2025/12/1
Issued Date: 2025/12/17

Applicant: SparkLAN Communications, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2025/12/17
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist

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Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 General Description.....	6
3.2 Antenna Description of EUT	8
3.3 Channel List.....	10
3.4 Test Mode Applicability and Tested Channel Detail.....	11
3.5 Duty Cycle of Test Signal.....	12
3.6 Test Program Used and Operation Descriptions	15
3.7 Connection Diagram of EUT and Peripheral Devices	15
3.8 Configuration of Peripheral Devices and Cable Connections	16
4 Test Instruments	17
4.1 RF Output Power.....	17
4.2 AC Power Conducted Emissions	17
4.3 Unwanted Emissions below 1 GHz	18
4.4 Unwanted Emissions above 1 GHz.....	19
5 Limits of Test Items.....	20
5.1 RF Output Power.....	20
5.2 AC Power Conducted Emissions	20
5.3 Unwanted Emissions below 1 GHz	20
5.4 Unwanted Emissions above 1 GHz.....	21
6 Test Arrangements.....	22
6.1 RF Output Power.....	22
6.1.1 Test Setup	22
6.1.2 Test Procedure	22
6.2 AC Power Conducted Emissions	22
6.2.1 Test Setup	22
6.2.2 Test Procedure	22
6.3 Unwanted Emissions below 1 GHz	23
6.3.1 Test Setup	23
6.3.2 Test Procedure	24
6.4 Unwanted Emissions above 1 GHz.....	26
6.4.1 Test Setup	26
6.4.2 Test Procedure	26
7 Test Results of Test Item	28
7.1 RF Output Power.....	28
7.2 AC Power Conducted Emissions	41
7.3 Unwanted Emissions below 1 GHz	43
7.4 Unwanted Emissions above 1 GHz.....	49
8 Pictures of Test Arrangements	99
9 Information of the Testing Laboratories	100

Release Control Record

Issue No.	Description	Date Issued
RFBENL-WTW-P24060709A	Original release.	2025/12/17

1 Certificate

Product: WiFi 7/BT module

Brand: Sparklan

Test Model: WNSQ-293BE(BT)

Series Model: WNFQ-290BE(BT), WNSQ-290BE(BT), WNFQ-293BE(BT)

Sample Status: Engineering sample

Applicant: SparkLAN Communications, Inc.

Test Date: 2025/6/9 ~ 2025/12/1

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

Measurement ANSI C63.10-2020

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	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 -13.78 dB at 0.76328 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.2 dB at 199.42 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.27 dB at 2483.52 MHz
15.203	Antenna Requirement	Pass	Antenna connector is MHF 4L, I-PEX MHF4, RP-SMA (M), MHF4L to SMA-F 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 (Report No.: RFBWIN-WTW-P23020421 R1).
- 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	WiFi 7/BT module
Brand	Sparklan
Test Model	WNSQ-293BE(BT)
Series Model	WNFQ-290BE(BT), WNSQ-290BE(BT), WNFQ-293BE(BT)
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 ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):9
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	687.892 mW (28.38 dBm)

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the original design is as the following: (QCA Report No.: RFBWIN-WTW-P23020421 R1)
 - ◆ Add Dipole antenna & Chip antenna. (Refer to section 3.2)
 - ◆ Add variant chip QCC2073 (based on WCN7851) for WNSQ-290BE(BT) and WNFQ-290BE(BT).
 - ◆ Add models WNFQ-293BE(BT) and WNSQ-293BE(BT) with variant chip QCC2076.
 - ◆ The variant chip models QCC2073 and QCC2076 are pin-to-pin compatible and have identical designs to the original chip WCN7851, and program change to disable the WiFi-7 320 MHz bandwidth.
 - ◆ Upgraded ANSI C63.10 standard version.
- 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. All models are listed as below.

Brand	Model	Chip model	Variant Chip model	Remark
Sparklan	WNSQ-290BE(BT)	WCN7851	QCC2073	Add variant chip QCC2073 is pin to pin and identical design and disable WiFi-7 bandwidth 320 MHz, DBS/SBS
Sparklan	WNFQ-290BE(BT)	WCN7851	QCC2073	Add variant chip QCC2073 is pin to pin and identical design and disable WiFi-7 bandwidth 320 MHz, DBS/SBS M.2 1620 w/ EVB
Sparklan	WNSQ-293BE(BT)	QCC2076	NA	Newly model, with variant chip QCC2076 is pin to pin and identical design and disable WiFi-7 bandwidth 320 MHz
Sparklan	WNFQ-293BE(BT)	QCC2076	NA	Newly model, with variant chip QCC2076 is pin to pin and identical design and disable WiFi-7 bandwidth 320 MHz M.2 1620 w/ EVB

From the above models, model: WNSQ-293BE(BT) was selected as representative model for the test and its data was recorded in this report.

4. There are Bluetooth (EDR, BLE, QHS) and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.

5. 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

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

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

7. 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.

2. The antenna information is listed as below.

Original									
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			
Newly									
Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)	
4	Chain0/1	SparkLAN	AD-513AX	3.11	2.4~2.4835	Dipole	I-PEX MHF4	150	
				4.46	5.150~5.850				
				4.07	5.850~5.895				
				4.53	5.925~6.425				
				4.06	6.425~6.525				
				4.04	6.525~6.875				
				3.97	6.875~7.125				
5	Chain0/1	SparkLAN	AD-510AX	2.27	2.4~2.4835	Dipole	RP-SMA (M)	150	
				2.88	5.150~5.850				
				2.6	5.850~5.895				
				3.23	5.925~6.425				
				3.34	6.425~6.525				
				3.52	6.525~6.875				
3.52	6.875~7.125								
6	Chain0/1	SparkLAN	AD-512AX	2.35	2.4~2.4835	Dipole	RP-SMA (M)	150	
				3.00	5.150~5.850				
				2.80	5.850~5.895				
				2.87	5.925~6.425				
				3.02	6.425~6.525				
				3.02	6.525~6.875				
				2.61	6.875~7.125				
7	Chain0/1	SparkLAN	AD-516AX	1.65	2.4~2.4835	Dipole	I-PEX MHF4	250	
				4.3	5.150~5.850				
				3.98	5.850~5.895				
				4	5.925~6.425				
				4	6.425~6.525				
				3.91	6.525~6.875				
				3.78	6.875~7.125				
8	Chain0/1	Johanson	2450AD18A6050	2	2.4~2.4835	Chip	MHF4L to SMA-F	250	
				1.5	5.150~5.850				
				2.7	5.850~5.895				
				2.7	5.925~6.425				
				2.7	6.425~6.525				
				2.7	6.525~6.875				
				2.7	6.875~7.125				

* 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

13 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	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

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

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	-	802.11b	SISO (1Tx) / CDD (2Tx)	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g		1, 2, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11be (EHT20)		1, 2, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11be (EHT40)		3, 4, 6, 8, 9, 10, 11	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU		1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8
		802.11be (EHT20) 52-tone RU		1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	37, 37, 37, 40, 40, 40, 40
		802.11be (EHT20) 106-tone RU		1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	53, 53, 53, 54, 54, 54, 54
		802.11be (EHT20) 242-tone RU		6	BPSK	MCS0	61
		802.11be (EHT40) 484-tone RU		6	BPSK	MCS0	65
		802.11be (EHT20) 52+26-tone MRU		6	BPSK	MCS0	UL_RU52+26_Low_70_MCS0
		802.11be (EHT20) 106+26-tone MRU		6	BPSK	MCS0	UL_RU106+26_Low_82_MCS0
AC Power Conducted Emissions	C	802.11be (EHT20)	CDD (2Tx)	6	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT20)	SISO (1Tx) / CDD (2Tx)	6	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	A, B	802.11be (EHT20) 26-tone RU	SISO (1Tx) / CDD (2Tx)	10	BPSK	MCS0	8
		802.11be (EHT20) 106-tone RU	1, 2, 6, 10, 11, 12, 13	BPSK	MCS0	0, 0, 0, 8, 8, 8, 8	
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 (Model: 260-25094)					

Note:

1. For unwanted emission test items, the tested channel was chosen the worst case as mode represent to report.
2. For SISO diversity configuration the worst chain is: Chain 0

3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 0.669 ms / 0.683 ms x 100% = 98.0%

802.11g: Duty cycle = 2.089 ms / 2.128 ms x 100% = 98.2%

802.11be (EHT20): Duty cycle = 5.334 ms / 5.374 ms x 100% = 99.3%

802.11be (EHT40): Duty cycle = 5.391 ms / 5.417 ms x 100% = 99.5%

802.11be (EHT20) 26-tone RU: Duty cycle = 5.07 ms / 5.111 ms x 100% = 99.2%

802.11be (EHT20) 52-tone RU: Duty cycle = 5.065 ms / 5.126 ms x 100% = 98.8%

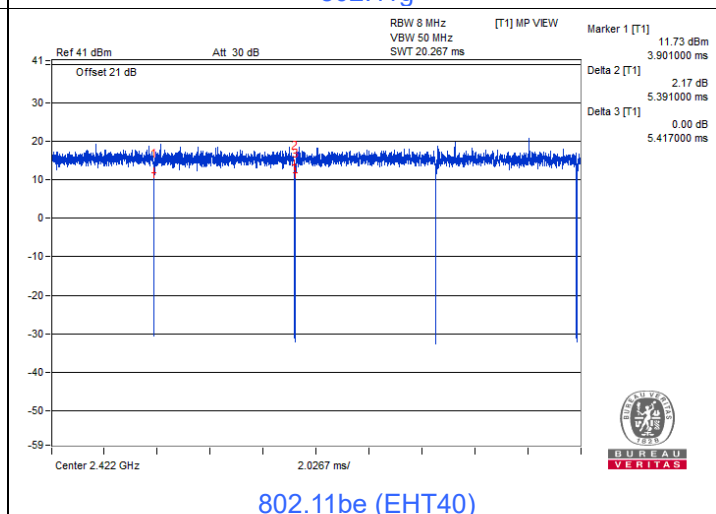
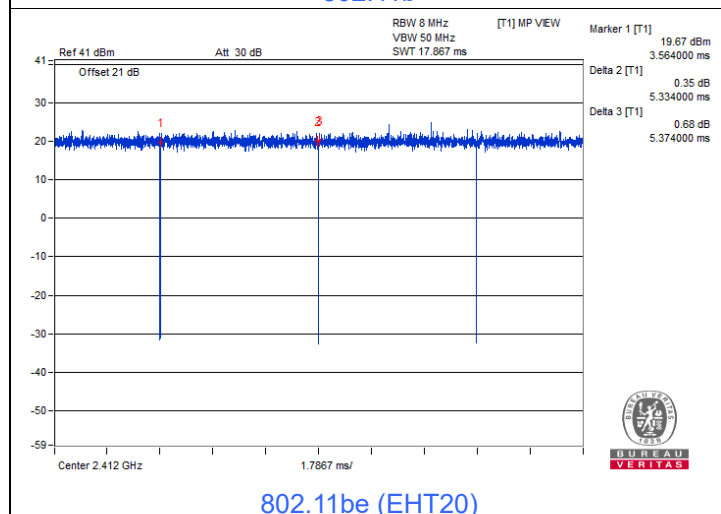
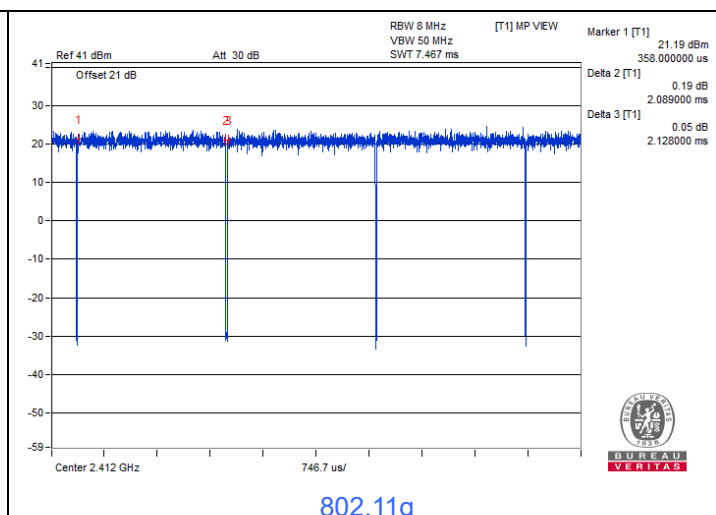
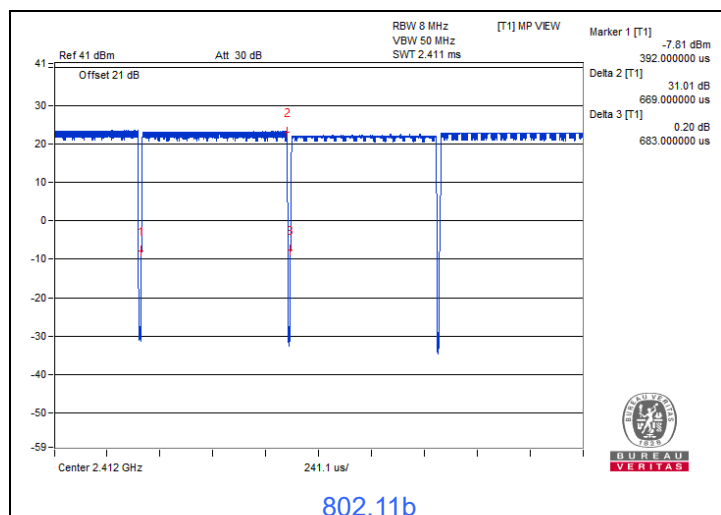
802.11be (EHT20) 106-tone RU: Duty cycle = 4.762 ms / 4.807 ms x 100% = 99.1%

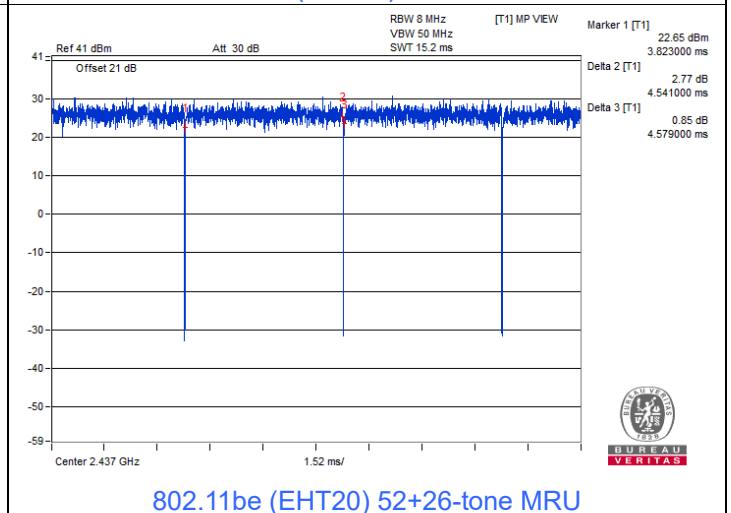
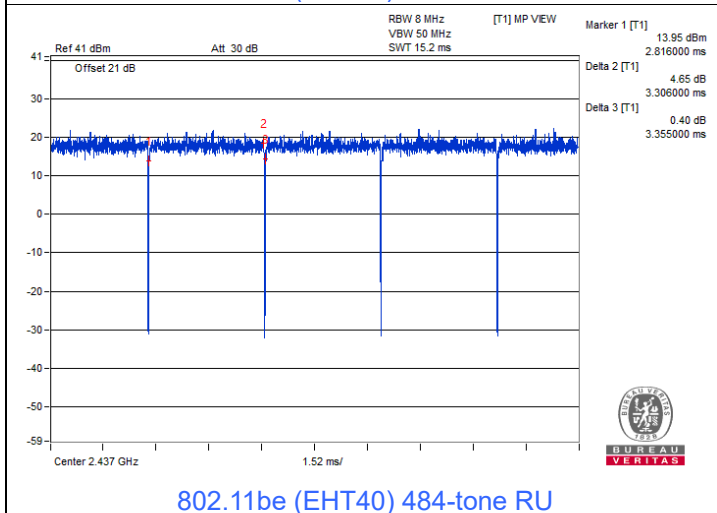
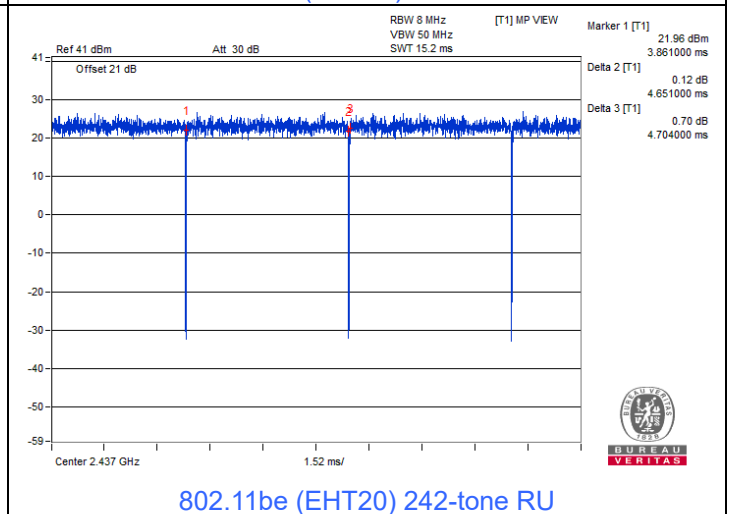
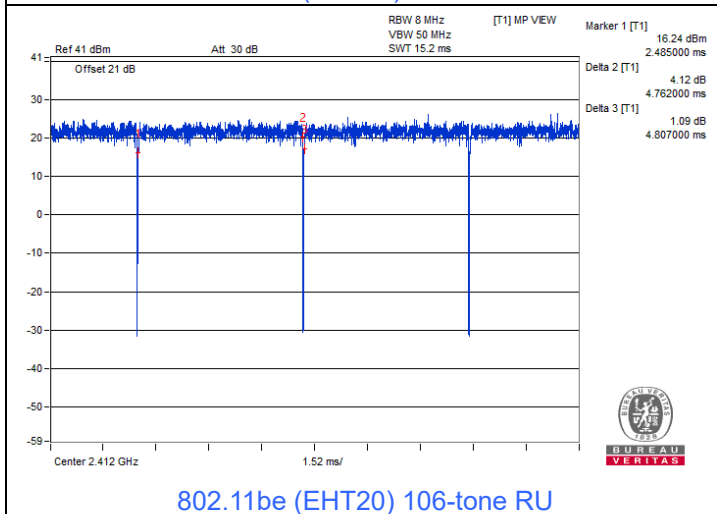
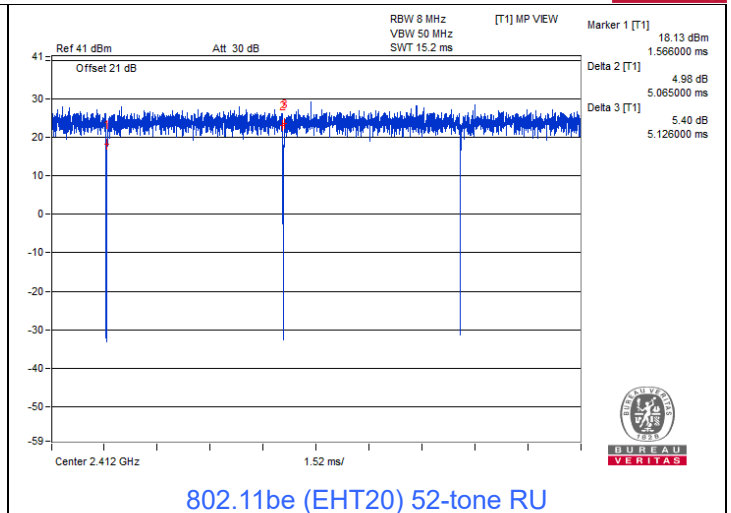
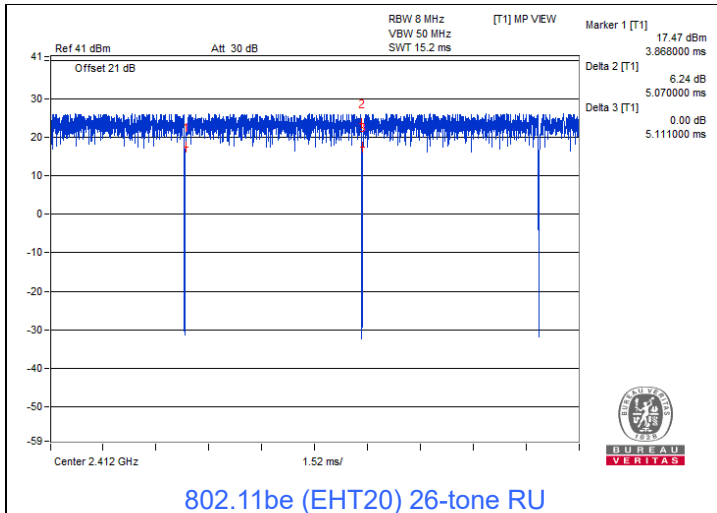
802.11be (EHT20) 242-tone RU: Duty cycle = 4.651 ms / 4.704 ms x 100% = 98.9%

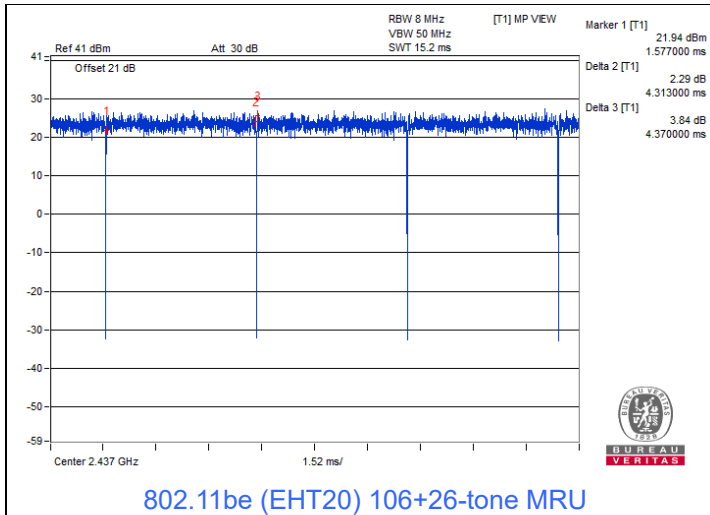
802.11be (EHT40) 484-tone RU: Duty cycle = 3.306 ms / 3.355 ms x 100% = 98.5%

802.11be (EHT20) 52+26-tone MRU: Duty cycle = 4.541 ms / 4.579 ms x 100% = 99.2%

802.11be (EHT20) 106+26-tone MRU: Duty cycle = 4.313 ms / 4.37 ms x 100% = 98.7%





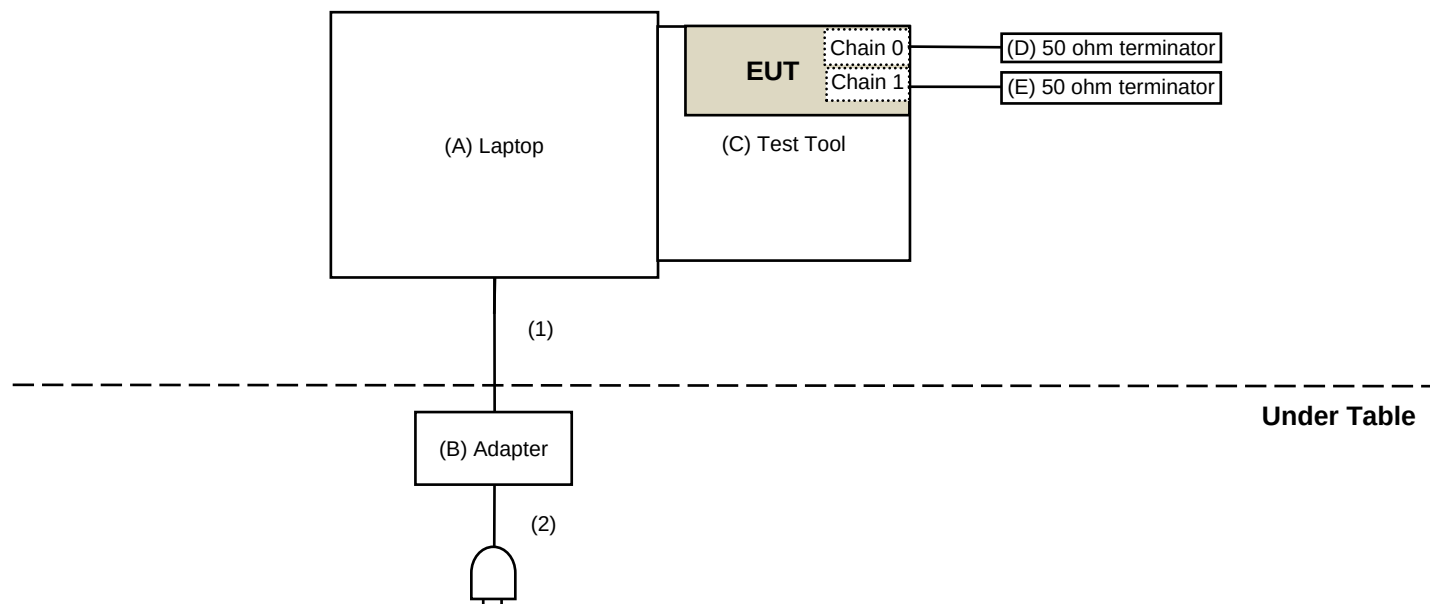


3.6 Test Program Used and Operation Descriptions

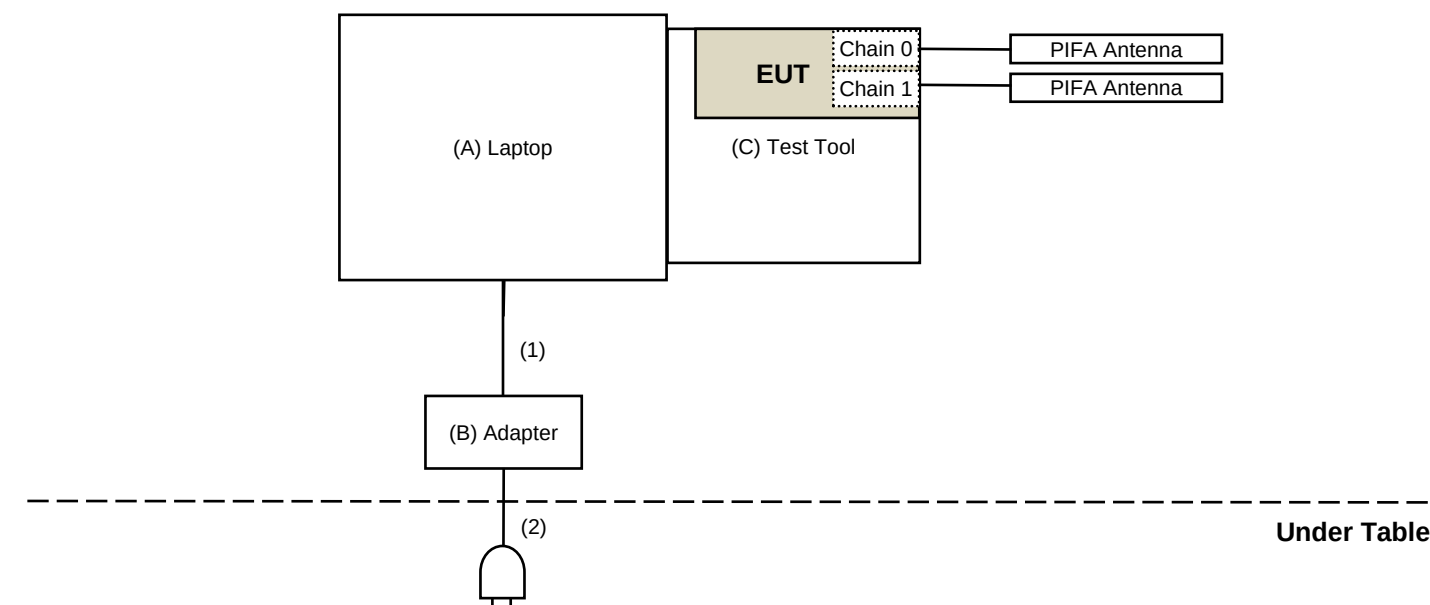
Controlling software (WLQN QRCT Module V4.0.00200.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission 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	DELL	E6430	J29SNX1	N/A	Provided by Lab
B	Adapter	DELL	MA65NM130	N/A	N/A	Provided by Lab
C	Test Tool	Qualcomm	N/A	N/A	N/A	Supplied by applicant
D	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab
E	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	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: 2025/8/4

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	2025/5/21	2026/5/20
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: 2025/6/9

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	2025/5/23	2026/5/22
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: 2025/8/18 ~ 2025/8/19

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 2025/7/30	2025/7/28 2026/7/29
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: 2025/6/9 ~ 2025/8/22

4.4 Unwanted Emissions above 1 GHz

Mode A

Refer to section 4.3 Mode A to get the tested date and information of the instruments.

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	2025/11/9 2026/11/8
	BBHA 9170	9170-739	2024/11/10 2025/11/9	2025/11/9 2026/11/8
MXA Signal Analyzer Keysight	N9020B	MY60112410	2025/3/17	2026/3/16
Preamplifier EMCI	EMC12630SE	980688	2025/8/7	2026/8/6
	EMC184045SE	980387	2025/8/7	2026/8/6
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 2025/10/22	2025/10/29 2026/10/21
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: 2025/8/22 ~ 2025/12/1

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

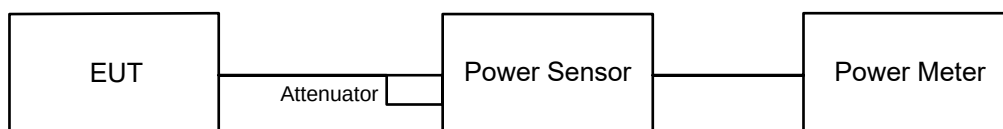
Notes:

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.

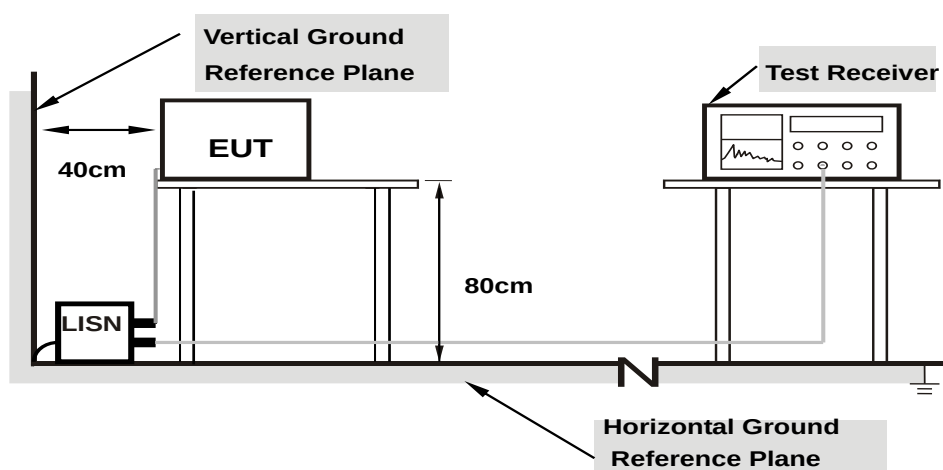
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector

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

- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

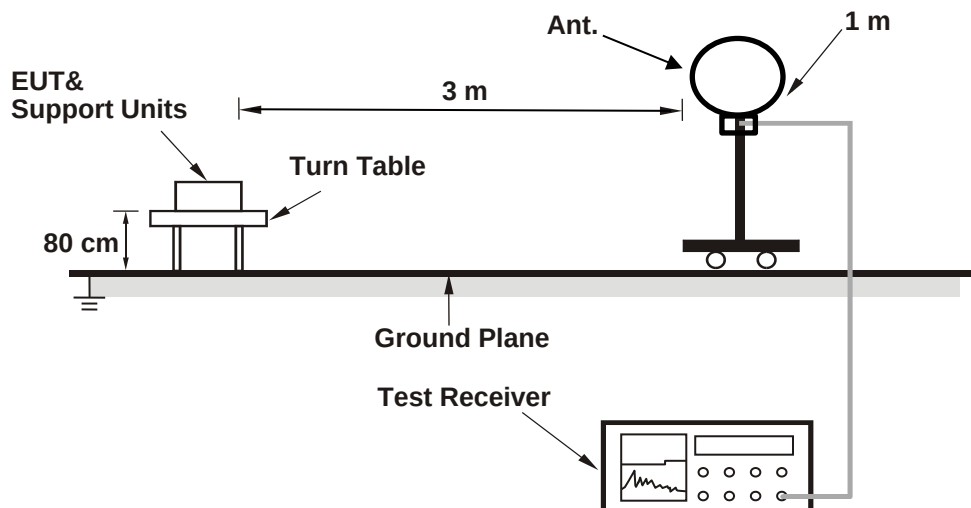
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.3 Unwanted Emissions below 1 GHz

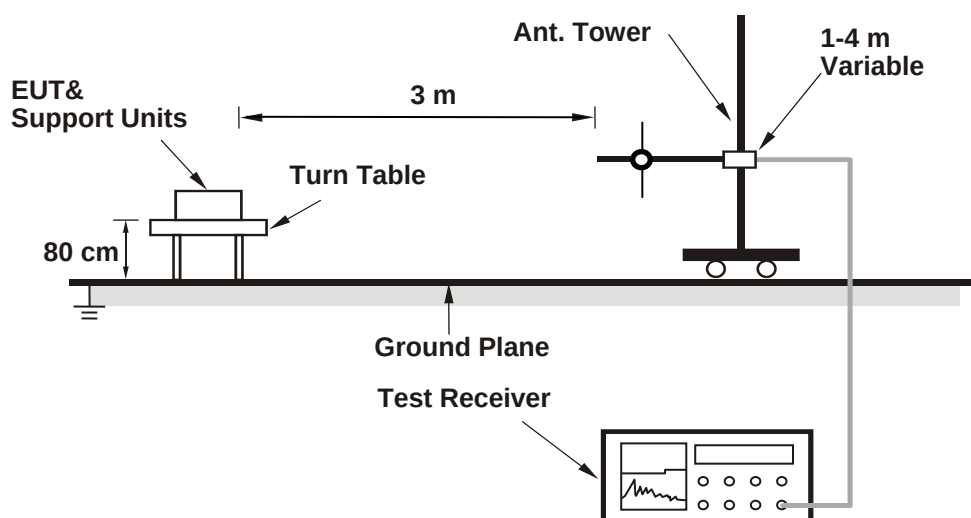
6.3.1 Test Setup

For Radiated Configuration:

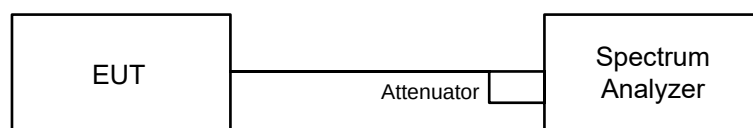
For Radiated emission below 30 MHz



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.

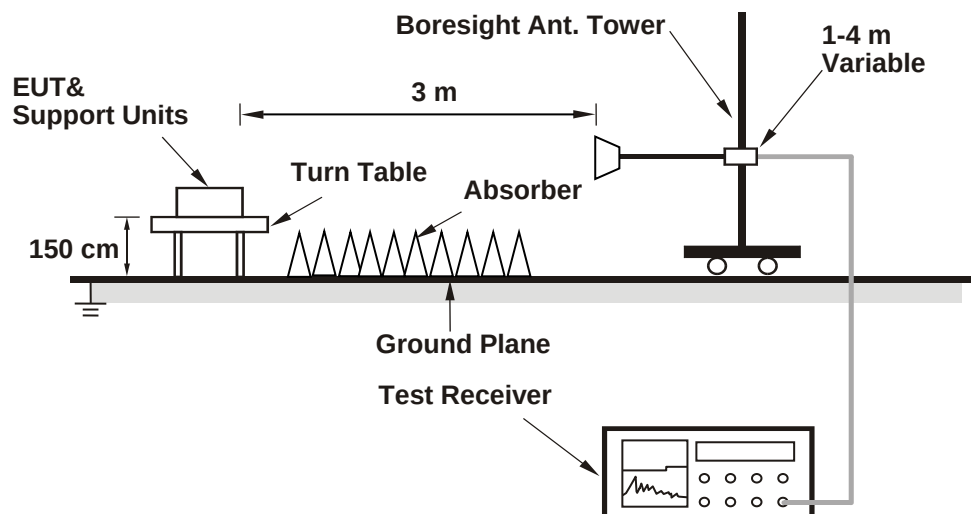
Notes:

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.

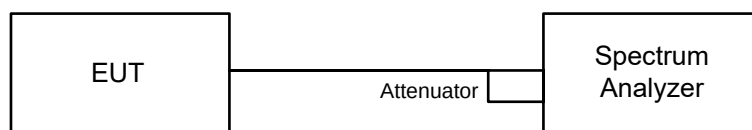
6.4 Unwanted Emissions above 1 GHz

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.

- e-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-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:	25°C, 60% RH	Tested By:	Kevin Ko
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1Tx

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	174.985	22.43	30	Pass
6	2437	181.97	22.60	30	Pass
11	2462	174.582	22.42	30	Pass
12	2467	169.824	22.30	30	Pass
13	2472	78.343	18.94	30	Pass

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

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	323.594	25.10	30	Pass
2	2417	322.849	25.09	30	Pass
6	2437	339.625	25.31	30	Pass
11	2462	325.087	25.12	30	Pass
12	2467	234.963	23.71	30	Pass
13	2472	68.234	18.34	30	Pass

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

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	368.129	25.66	30	Pass
2	2417	355.631	25.51	30	Pass
6	2437	374.111	25.73	30	Pass
11	2462	315.5	24.99	30	Pass
12	2467	255.27	24.07	30	Pass
13	2472	74.302	18.71	30	Pass

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

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
3	2422	198.609	22.98	30	Pass
4	2427	205.116	23.12	30	Pass
6	2437	226.464	23.55	30	Pass
8	2447	234.963	23.71	30	Pass
9	2452	229.087	23.60	30	Pass
10	2457	111.686	20.48	30	Pass
11	2462	34.119	15.33	30	Pass

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

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	334.195	25.24	30	Pass
2	2417	322.107	25.08	30	Pass
6	2437	365.595	25.63	30	Pass
10	2457	336.512	25.27	30	Pass
11	2462	330.37	25.19	30	Pass
12	2467	270.396	24.32	30	Pass
13	2472	13.092	11.17	30	Pass

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

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	325.837	25.13	30	Pass
2	2417	335.738	25.26	30	Pass
6	2437	368.129	25.66	30	Pass
10	2457	339.625	25.31	30	Pass
11	2462	320.627	25.06	30	Pass
12	2467	306.196	24.86	30	Pass
13	2472	24.434	13.88	30	Pass

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

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	339.625	25.31	30	Pass
2	2417	341.193	25.33	30	Pass
6	2437	372.392	25.71	30	Pass
10	2457	367.282	25.65	30	Pass
11	2462	341.979	25.34	30	Pass
12	2467	272.898	24.36	30	Pass
13	2472	43.053	16.34	30	Pass

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

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	368.129	25.66	30	Pass

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

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	361.41	25.58	30	Pass

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

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	338.065	25.29	30	Pass

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

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
6	2437	358.096	25.54	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

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	94.842	19.77
6	2437	95.28	19.79
11	2462	92.897	19.68
12	2467	93.325	19.70
13	2472	35.237	15.47

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	93.111	19.69
2	2417	93.111	19.69
6	2437	95.06	19.78
11	2462	93.756	19.72
12	2467	64.565	18.10
13	2472	19.187	12.83

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	94.842	19.77
2	2417	95.28	19.79
6	2437	95.499	19.80
11	2462	81.658	19.12
12	2467	65.013	18.13
13	2472	18.03	12.56

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	59.841	17.77
4	2427	61.802	17.91
6	2437	67.764	18.31
8	2447	69.984	18.45
9	2452	69.823	18.44
10	2457	34.356	15.36
11	2462	10.423	10.18

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	77.268	18.88
2	2417	74.302	18.71
6	2437	94.624	19.76
10	2457	85.901	19.34
11	2462	79.068	18.98
12	2467	53.951	17.32
13	2472	2.818	4.50

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	71.779	18.56
2	2417	70.632	18.49
6	2437	89.95	19.54
10	2457	74.817	18.74
11	2462	71.121	18.52
12	2467	54.45	17.36
13	2472	4.406	6.44

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	80.724	19.07
2	2417	80.353	19.05
6	2437	91.411	19.61
10	2457	90.157	19.55
11	2462	86.696	19.38
12	2467	56.494	17.52
13	2472	8.26	9.17

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	94.189	19.74

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	90.782	19.58

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	84.528	19.27

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
6	2437	91.622	19.62

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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2Tx

For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	20.72	20.65	234.177	23.70	30	Pass
6	2437	20.76	20.33	227.019	23.56	30	Pass
11	2462	21.15	20.86	252.216	24.02	30	Pass
12	2467	21.13	20.87	251.898	24.01	30	Pass
13	2472	15.09	15.17	65.17	18.14	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.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	22.83	22.76	380.666	25.81	30	Pass
2	2417	22.91	22.81	386.419	25.87	30	Pass
6	2437	22.86	22.40	366.977	25.65	30	Pass
11	2462	22.76	22.45	364.591	25.62	30	Pass
12	2467	19.11	19.22	165.031	22.18	30	Pass
13	2472	16.43	16.25	86.124	19.35	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.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	23.14	23.33	421.341	26.25	30	Pass
2	2417	23.64	23.97	480.666	26.82	30	Pass
6	2437	24.99	25.71	687.892	28.38	30	Pass
11	2462	20.56	20.71	231.523	23.65	30	Pass
12	2467	20.18	20.65	220.377	23.43	30	Pass
13	2472	16.45	16.80	92.02	19.64	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.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	20.04	20.13	203.964	23.10	30	Pass
4	2427	19.67	20.13	195.722	22.92	30	Pass
6	2437	20.98	21.02	251.788	24.01	30	Pass
8	2447	20.00	19.93	198.401	22.98	30	Pass
9	2452	18.86	18.92	154.896	21.90	30	Pass
10	2457	16.17	16.48	85.863	19.34	30	Pass
11	2462	14.46	14.18	54.107	17.33	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.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.36	24.79	574.198	27.59	30	Pass
2	2417	23.95	24.77	548.23	27.39	30	Pass
6	2437	24.95	25.51	668.239	28.25	30	Pass
10	2457	24.64	24.87	597.974	27.77	30	Pass
11	2462	25.26	25.43	684.878	28.36	30	Pass
12	2467	21.53	21.64	288.114	24.60	30	Pass
13	2472	6.77	7.92	10.948	10.39	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.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.01	24.60	540.171	27.33	30	Pass
2	2417	23.84	24.90	551.132	27.41	30	Pass
6	2437	24.74	25.04	617.005	27.90	30	Pass
10	2457	24.77	25.46	651.477	28.14	30	Pass
11	2462	24.10	24.74	554.891	27.44	30	Pass
12	2467	22.49	23.27	389.743	25.91	30	Pass
13	2472	9.85	11.12	22.602	13.54	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.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.12	24.64	549.298	27.40	30	Pass
2	2417	24.15	24.59	547.756	27.39	30	Pass
6	2437	25.18	24.87	636.512	28.04	30	Pass
10	2457	24.50	24.42	558.532	27.47	30	Pass
11	2462	23.70	24.13	493.244	26.93	30	Pass
12	2467	21.65	21.91	301.456	24.79	30	Pass
13	2472	14.34	14.22	53.588	17.29	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.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	25.11	25.24	658.535	28.19	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.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	22.51	22.77	367.472	25.65	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.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	24.72	25.08	618.59	27.91	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.

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
6	2437	24.71	25.08	617.908	27.91	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

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.11	18.05	128.541	21.09
6	2437	18.05	17.63	121.769	20.86
11	2462	18.68	17.97	136.452	21.35
12	2467	18.49	18.15	135.945	21.33
13	2472	11.69	11.58	29.145	14.65

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.57	17.43	112.483	20.51
2	2417	17.76	17.42	114.911	20.60
6	2437	17.53	17.29	110.204	20.42
11	2462	17.62	17.20	110.29	20.43
12	2467	14.08	14.02	50.821	17.06
13	2472	9.12	8.95	16.018	12.05

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.86	17.48	104.505	20.19
2	2417	17.69	18.34	126.983	21.04
6	2437	18.46	18.91	147.949	21.70
11	2462	14.82	15.22	63.605	18.03
12	2467	14.41	14.92	58.651	17.68
13	2472	8.80	9.37	16.235	12.10

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	14.36	14.59	56.064	17.49
4	2427	14.82	15.00	61.962	17.92
6	2437	16.06	16.14	81.48	19.11
8	2447	15.02	14.91	62.743	17.98
9	2452	13.92	14.03	49.953	16.99
10	2457	11.32	11.75	28.514	14.55
11	2462	6.34	6.40	8.67	9.38

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.46	18.15	121.032	20.83
2	2417	17.08	18.09	115.467	20.62
6	2437	18.36	18.78	144.058	21.59
10	2457	18.11	18.06	128.688	21.10
11	2462	17.55	17.82	117.419	20.70
12	2467	13.72	14.11	49.314	16.93
13	2472	-2.32	-0.24	1.5324	1.85

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.12	16.64	87.058	19.40
2	2417	15.84	16.64	84.502	19.27
6	2437	17.38	17.66	113.046	20.53
10	2457	16.53	17.07	95.911	19.82
11	2462	16.04	16.72	87.168	19.40
12	2467	14.10	14.81	55.973	17.48
13	2472	0.84	2.69	3.071	4.87

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.35	17.83	114.999	20.61
2	2417	17.32	18.07	118.072	20.72
6	2437	18.04	18.33	131.756	21.20
10	2457	17.95	18.07	126.494	21.02
11	2462	16.78	17.07	98.576	19.94
12	2467	13.96	14.15	50.89	17.07
13	2472	4.82	5.21	6.353	8.03

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	18.42	18.92	147.485	21.69

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	15.90	16.55	84.09	19.25

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	17.24	17.77	112.808	20.52

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	18.29	18.80	143.311	21.56

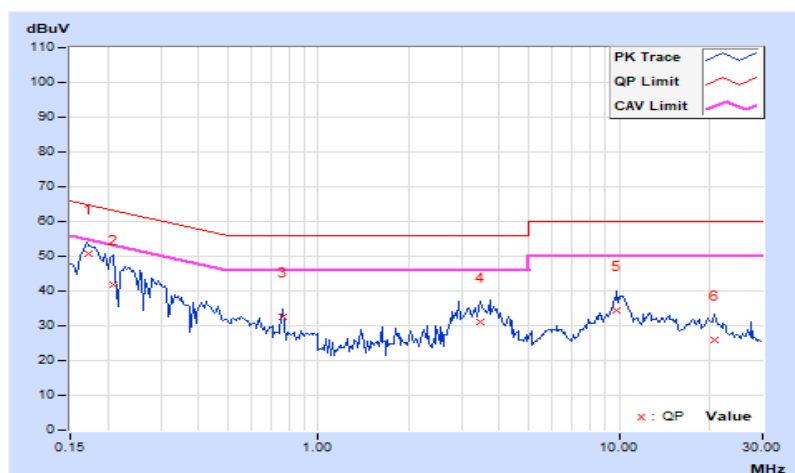
7.2 AC Power Conducted Emissions

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	0.17344	9.97	40.85	25.73	50.82	35.70	64.79	54.79	-13.97	-19.09
2	0.20859	9.99	31.86	4.89	41.85	14.88	63.26	53.26	-21.41	-38.38
3	0.76328	10.01	22.66	22.21	32.67	32.22	56.00	46.00	-23.33	-13.78
4	3.44141	10.15	20.90	11.73	31.05	21.88	56.00	46.00	-24.95	-24.12
5	9.86719	10.45	24.11	18.09	34.56	28.54	60.00	50.00	-25.44	-21.46
6	20.76953	10.93	14.84	7.47	25.77	18.40	60.00	50.00	-34.23	-31.60

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

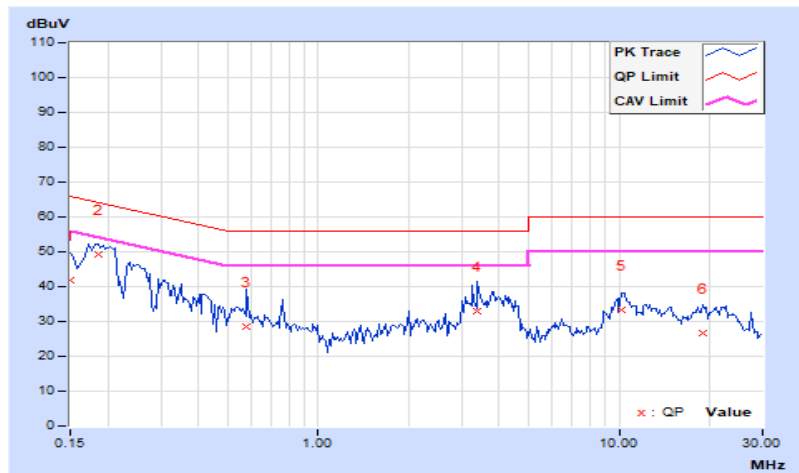


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	0.15072	10.01	31.74	12.20	41.75	22.21	65.96	55.96	-24.21	-33.75
2	0.18516	10.02	39.39	25.83	49.41	35.85	64.25	54.25	-14.84	-18.40
3	0.57969	10.01	18.65	11.18	28.66	21.19	56.00	46.00	-27.34	-24.81
4	3.37500	10.15	22.75	10.84	32.90	20.99	56.00	46.00	-23.10	-25.01
5	10.14063	10.42	23.07	17.42	33.49	27.84	60.00	50.00	-26.51	-22.16
6	18.91406	10.74	15.92	7.48	26.66	18.22	60.00	50.00	-33.34	-31.78

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

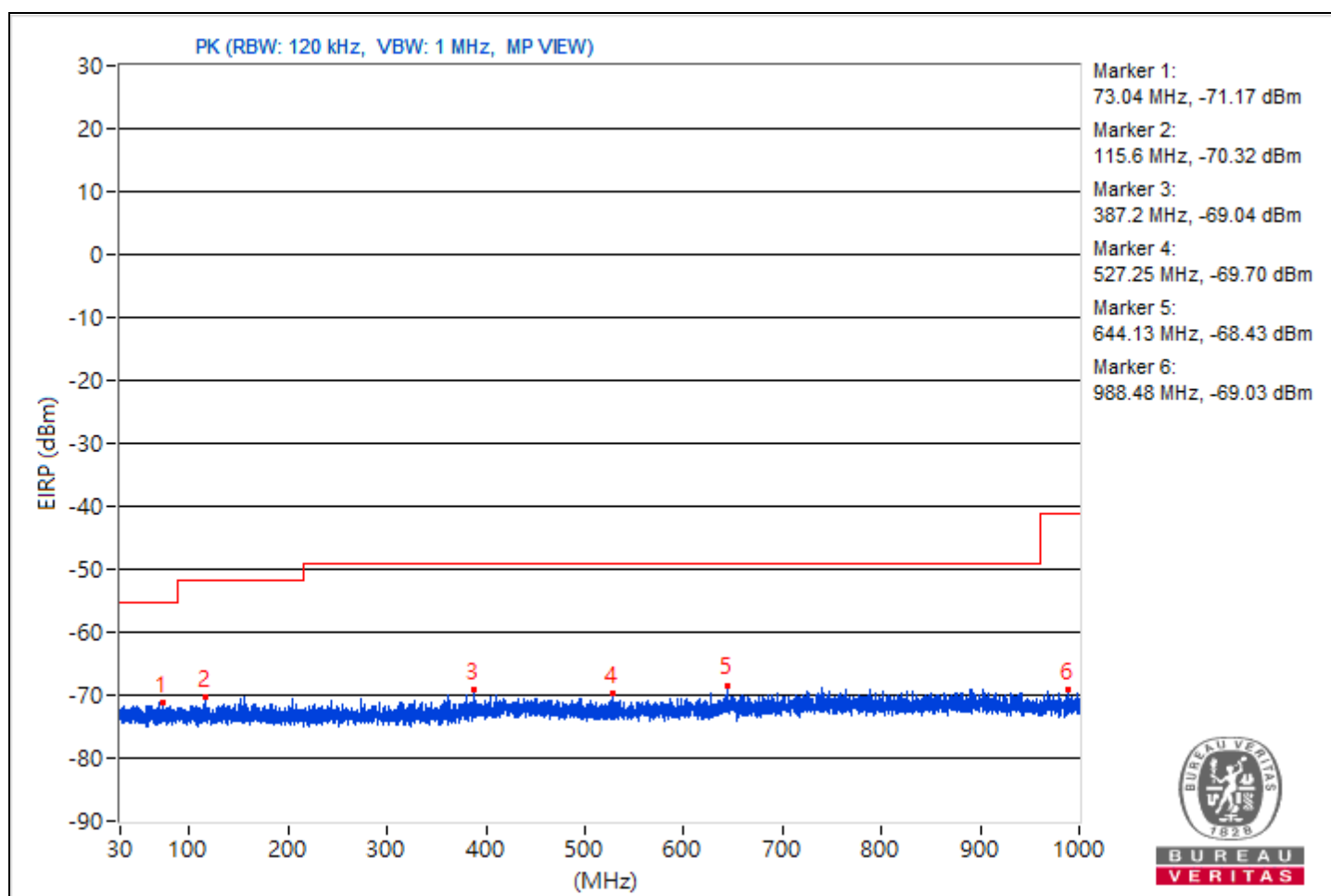
1Tx

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	73.04	24.09 PK	40	-15.91	-81.03	9.86	-71.17
2	115.6	24.94 PK	43.5	-18.56	-80.18	9.86	-70.32
3	387.2	26.22 PK	46	-19.78	-78.9	9.86	-69.04
4	527.25	25.56 PK	46	-20.44	-79.56	9.86	-69.7
5	644.13	26.83 PK	46	-19.17	-78.29	9.86	-68.43
6	988.48	26.23 PK	54	-27.77	-78.89	9.86	-69.03

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.



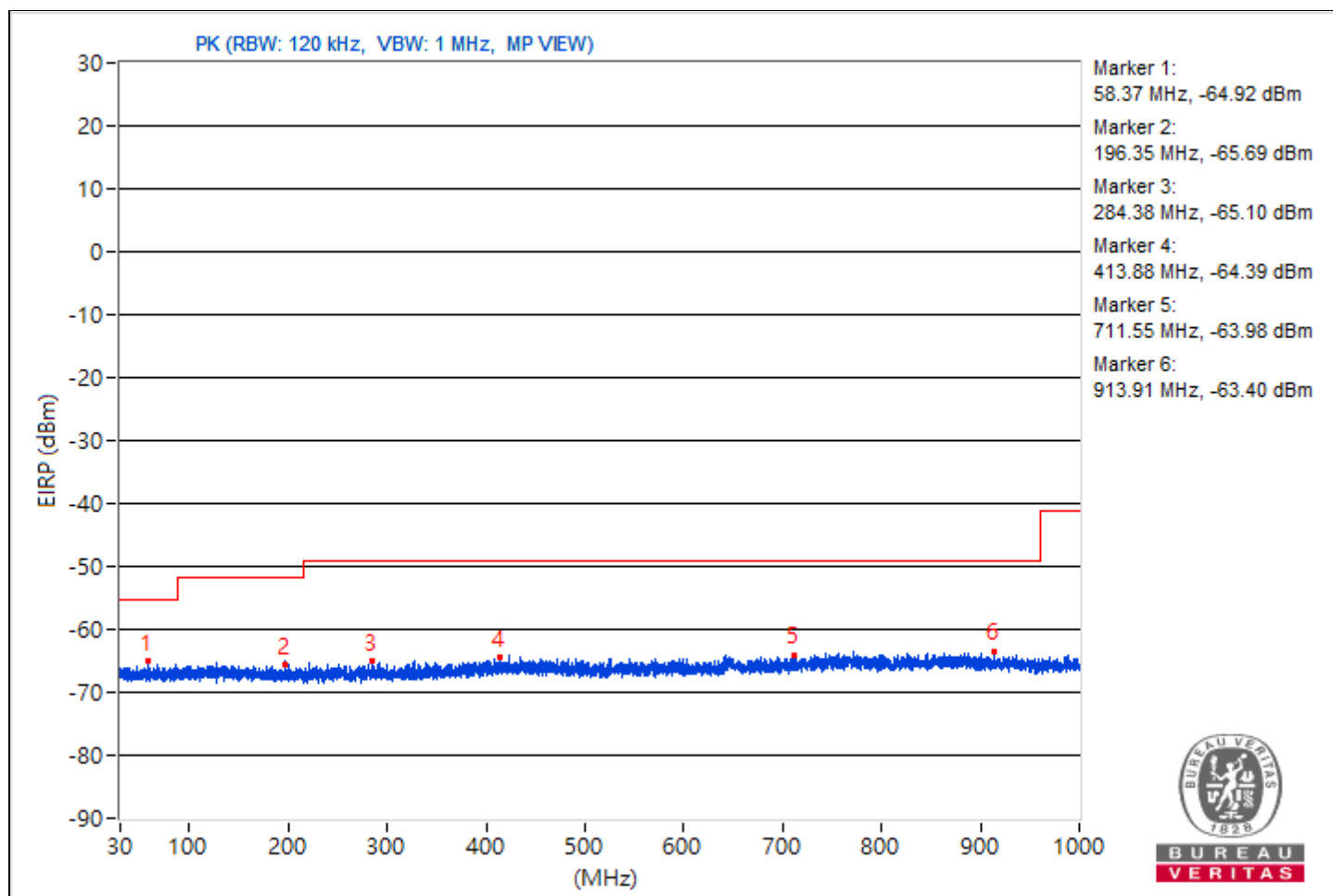
2Tx

RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	58.37	30.34 PK	40	-9.66	-80.45	-81.18	12.87	-64.92
2	196.35	29.57 PK	43.5	-13.93	-83.42	-80.28	12.87	-65.69
3	284.38	30.16 PK	46	-15.84	-79.36	-83.61	12.87	-65.1
4	413.88	30.87 PK	46	-15.13	-79.47	-81.26	12.87	-64.39
5	711.55	31.28 PK	46	-14.72	-78.84	-81.18	12.87	-63.98
6	913.91	31.86 PK	46	-14.14	-80.6	-78.27	12.87	-63.4

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

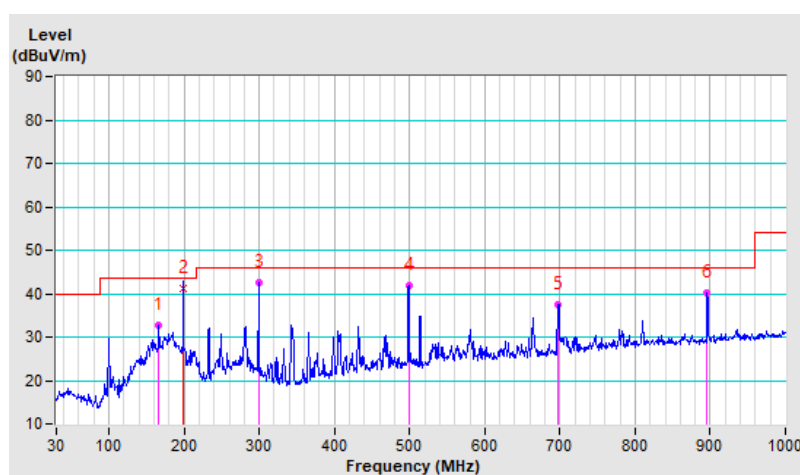
1Tx

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	166.12	32.8 QP	43.5	-10.7	2.00 H	312	46.0	-13.2
2	199.53	41.2 QP	43.5	-2.3	2.00 H	316	57.4	-16.2
3	298.74	42.7 QP	46.0	-3.3	1.00 H	197	55.1	-12.4
4	498.87	41.8 QP	46.0	-4.2	2.00 H	122	49.2	-7.4
5	697.04	37.5 QP	46.0	-8.5	2.00 H	360	40.9	-3.4
6	896.19	40.2 QP	46.0	-5.8	1.00 H	174	40.5	-0.3

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.

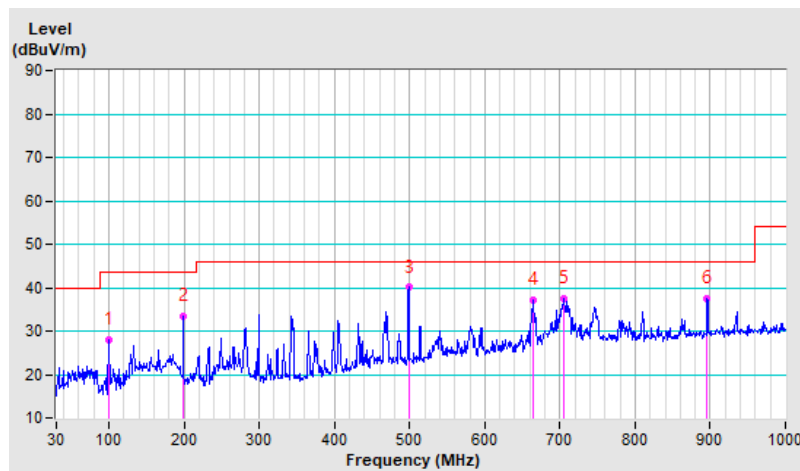


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65% RH
Tested By	Tank Wu		

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	99.74	27.9 QP	43.5	-15.6	1.00 V	158	45.1	-17.2
2	199.17	33.4 QP	43.5	-10.1	2.00 V	238	49.6	-16.2
3	498.90	40.0 QP	46.0	-6.0	2.00 V	290	47.4	-7.4
4	664.28	37.2 QP	46.0	-8.8	2.00 V	2	41.2	-4.0
5	705.14	37.5 QP	46.0	-8.5	2.00 V	2	40.7	-3.2
6	896.16	37.4 QP	46.0	-8.6	2.00 V	258	37.7	-0.3

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.



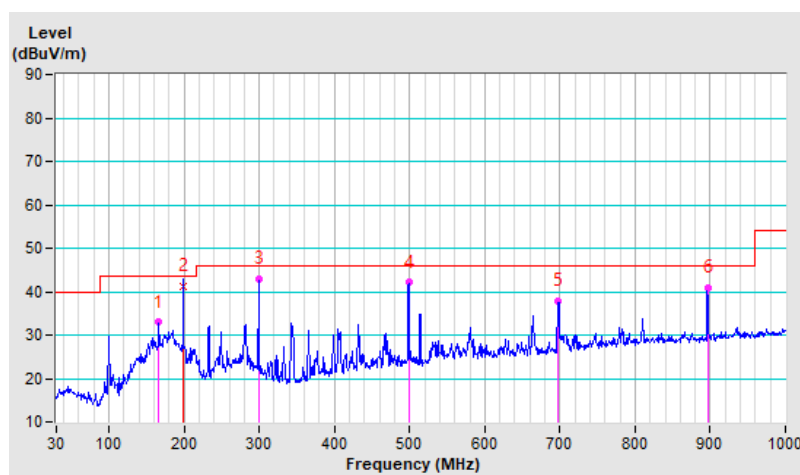
2Tx

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	166.12	32.9 QP	43.5	-10.6	2.00 H	303	46.1	-13.2
2	199.42	41.3 QP	43.5	-2.2	2.00 H	321	57.5	-16.2
3	298.96	42.9 QP	46.0	-3.1	1.00 H	182	55.3	-12.4
4	498.62	42.1 QP	46.0	-3.9	2.00 H	129	49.5	-7.4
5	697.26	37.9 QP	46.0	-8.1	2.00 H	324	41.3	-3.4
6	896.33	40.8 QP	46.0	-5.2	1.00 H	162	41.1	-0.3

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.

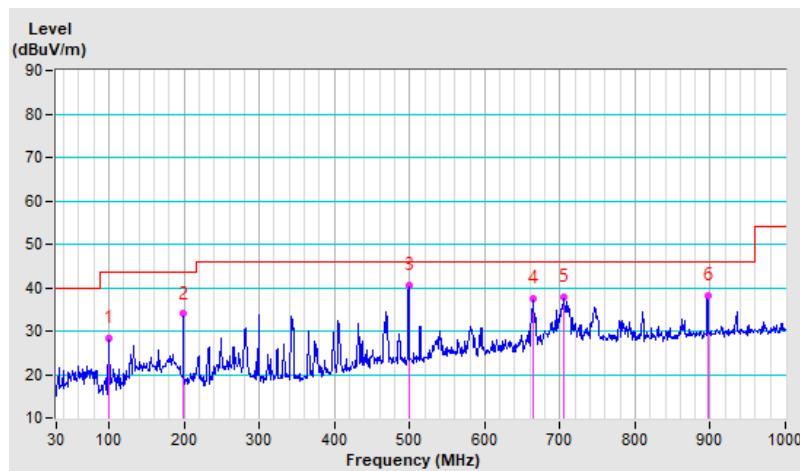


RF Mode	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65% RH
Tested By	Tank Wu		

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	99.93	28.3 QP	43.5	-15.2	1.00 V	142	45.5	-17.2
2	199.35	33.9 QP	43.5	-9.6	2.00 V	212	50.1	-16.2
3	498.72	40.6 QP	46.0	-5.4	1.00 V	273	48.0	-7.4
4	664.59	37.6 QP	46.0	-8.4	2.00 V	12	41.6	-4.0
5	705.53	37.9 QP	46.0	-8.1	1.00 V	16	41.1	-3.2
6	896.59	38.1 QP	46.0	-7.9	2.00 V	223	38.4	-0.3

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.



7.4 Unwanted Emissions above 1 GHz

Mode A

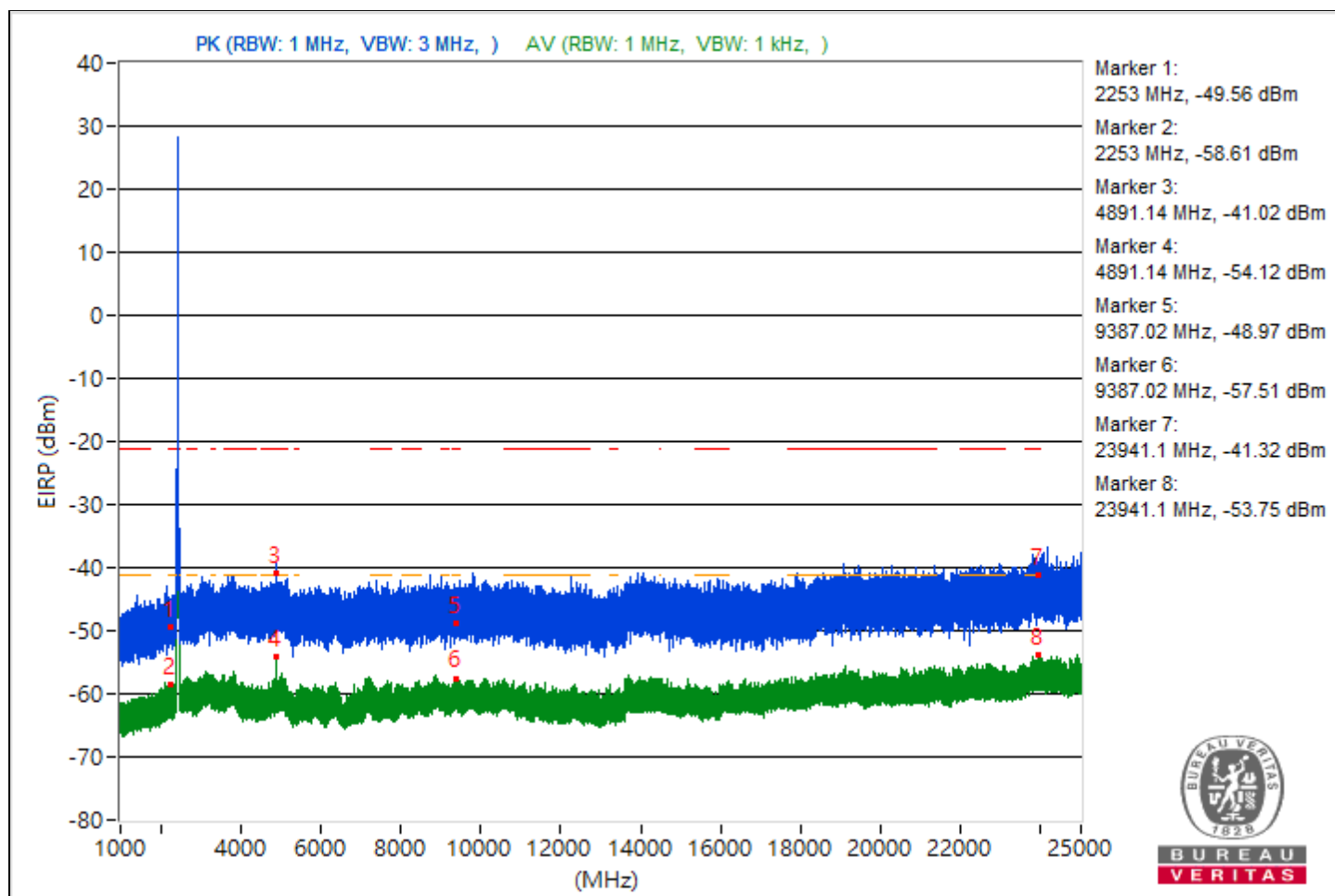
1Tx

Conducted Unwanted Emissions

RF Mode	802.11be (EHT20) 26-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2253	45.7 PK	74	-28.3	-54.72	5.16	-49.56
2	2253	36.65 AV	54	-17.35	-63.77	5.16	-58.61
3	4891.14	54.24 PK	74	-19.76	-46.18	5.16	-41.02
4	4891.14	41.14 AV	54	-12.86	-59.28	5.16	-54.12
5	9387.02	46.29 PK	74	-27.71	-54.13	5.16	-48.97
6	9387.02	37.75 AV	54	-16.25	-62.67	5.16	-57.51
7	23941.1	53.94 PK	74	-20.06	-46.48	5.16	-41.32
8	23941.1	41.51 AV	54	-12.49	-58.91	5.16	-53.75

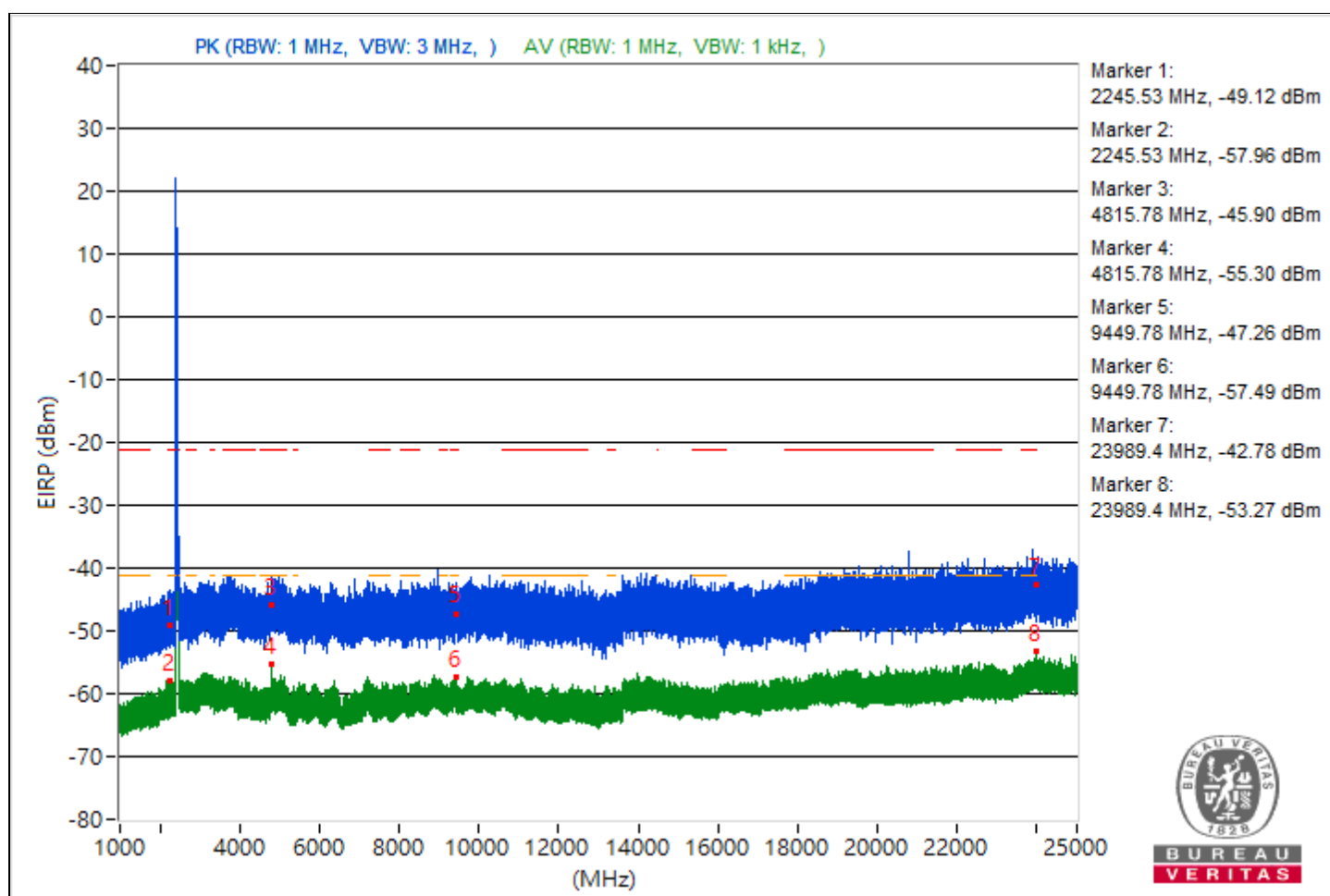
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2245.53	46.14 PK	74	-27.86	-54.28	5.16	-49.12
2	2245.53	37.3 AV	54	-16.7	-63.12	5.16	-57.96
3	4815.78	49.36 PK	74	-24.64	-51.06	5.16	-45.9
4	4815.78	39.96 AV	54	-14.04	-60.46	5.16	-55.3
5	9449.78	48 PK	74	-26	-52.42	5.16	-47.26
6	9449.78	37.77 AV	54	-16.23	-62.65	5.16	-57.49
7	23989.4	52.48 PK	74	-21.52	-47.94	5.16	-42.78
8	23989.4	41.99 AV	54	-12.01	-58.43	5.16	-53.27

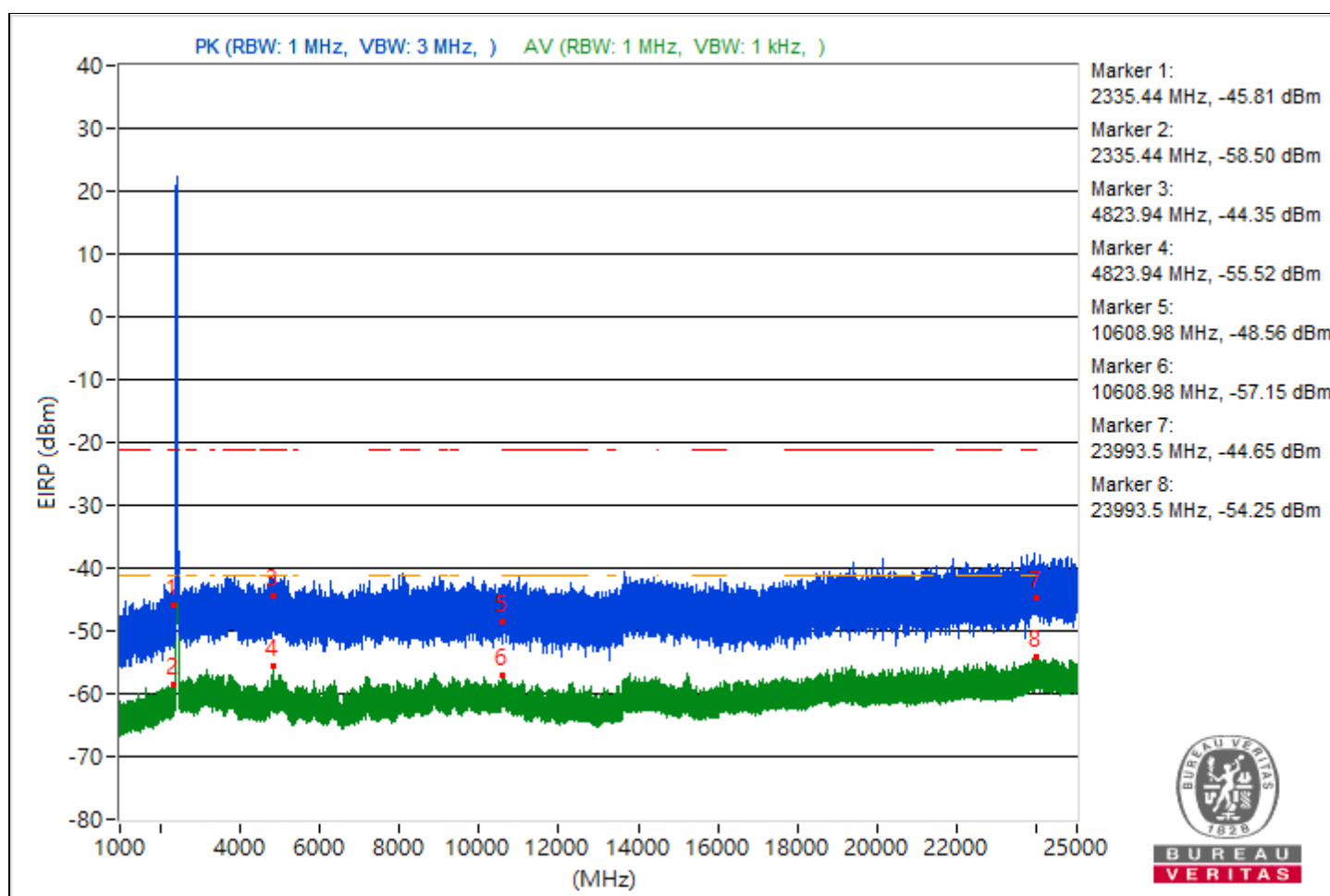
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 2 : 2417 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2335.44	49.45 PK	74	-24.55	-50.97	5.16	-45.81
2	2335.44	36.76 AV	54	-17.24	-63.66	5.16	-58.5
3	4823.94	50.91 PK	74	-23.09	-49.51	5.16	-44.35
4	4823.94	39.74 AV	54	-14.26	-60.68	5.16	-55.52
5	10608.98	46.7 PK	74	-27.3	-53.72	5.16	-48.56
6	10608.98	38.11 AV	54	-15.89	-62.31	5.16	-57.15
7	23993.5	50.61 PK	74	-23.39	-49.81	5.16	-44.65
8	23993.5	41.01 AV	54	-12.99	-59.41	5.16	-54.25

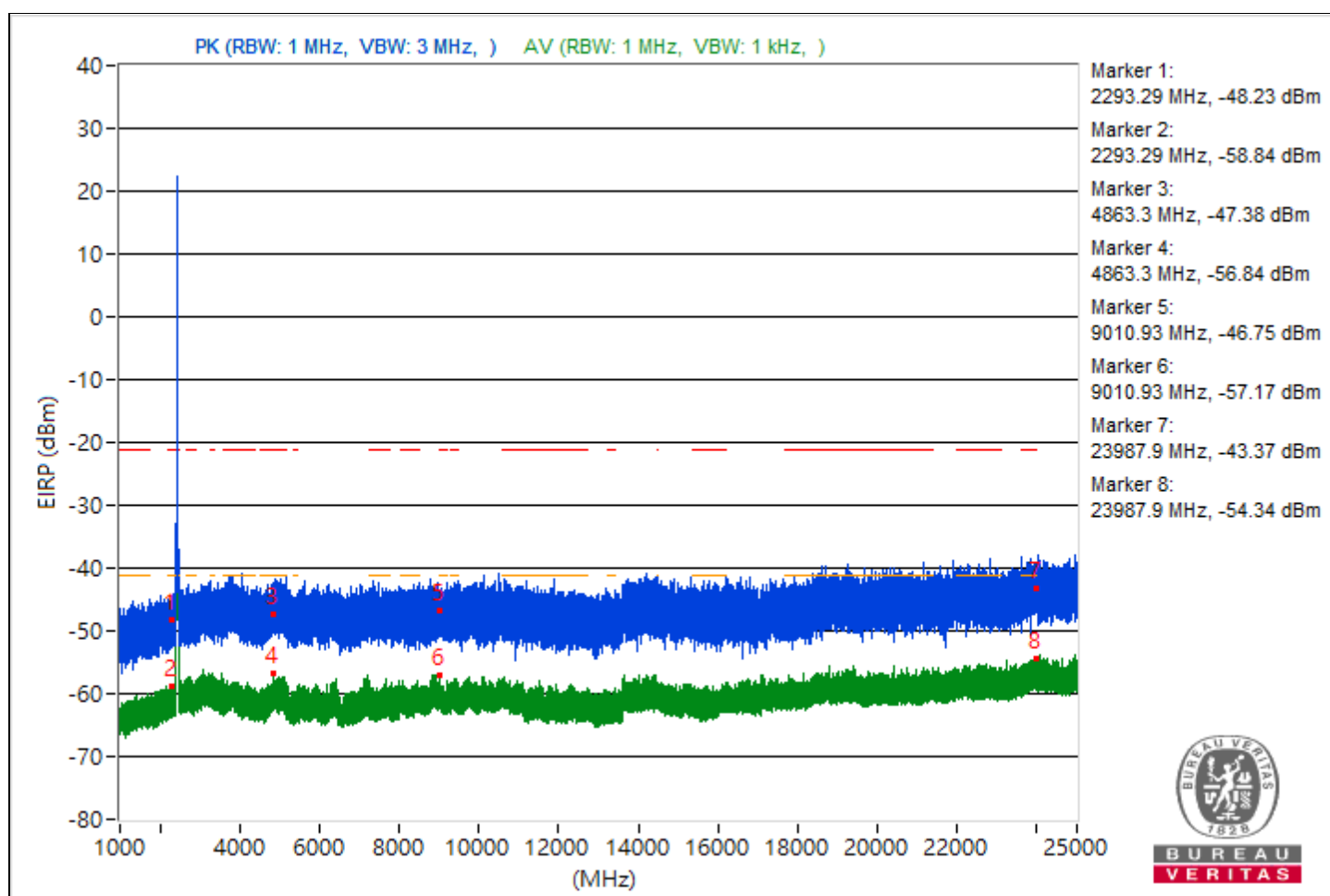
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2293.29	47.03 PK	74	-26.97	-53.39	5.16	-48.23
2	2293.29	36.42 AV	54	-17.58	-64	5.16	-58.84
3	4863.3	47.88 PK	74	-26.12	-52.54	5.16	-47.38
4	4863.3	38.42 AV	54	-15.58	-62	5.16	-56.84
5	9010.93	48.51 PK	74	-25.49	-51.91	5.16	-46.75
6	9010.93	38.09 AV	54	-15.91	-62.33	5.16	-57.17
7	23987.9	51.89 PK	74	-22.11	-48.53	5.16	-43.37
8	23987.9	40.92 AV	54	-13.08	-59.5	5.16	-54.34

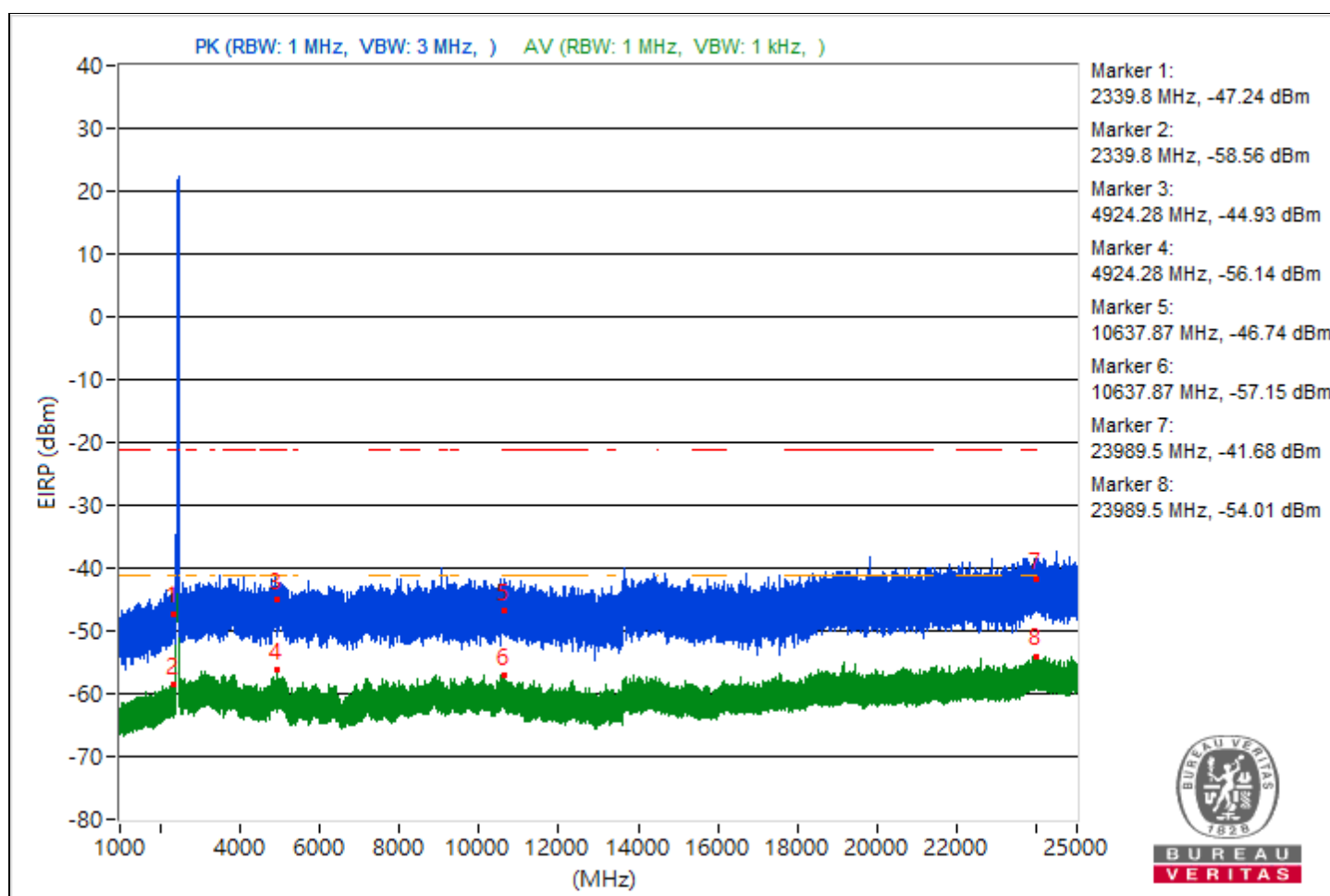
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2339.8	48.02 PK	74	-25.98	-52.4	5.16	-47.24
2	2339.8	36.7 AV	54	-17.3	-63.72	5.16	-58.56
3	4924.28	50.33 PK	74	-23.67	-50.09	5.16	-44.93
4	4924.28	39.12 AV	54	-14.88	-61.3	5.16	-56.14
5	10637.87	48.52 PK	74	-25.48	-51.9	5.16	-46.74
6	10637.87	38.11 AV	54	-15.89	-62.31	5.16	-57.15
7	23989.5	53.58 PK	74	-20.42	-46.84	5.16	-41.68
8	23989.5	41.25 AV	54	-12.75	-59.17	5.16	-54.01

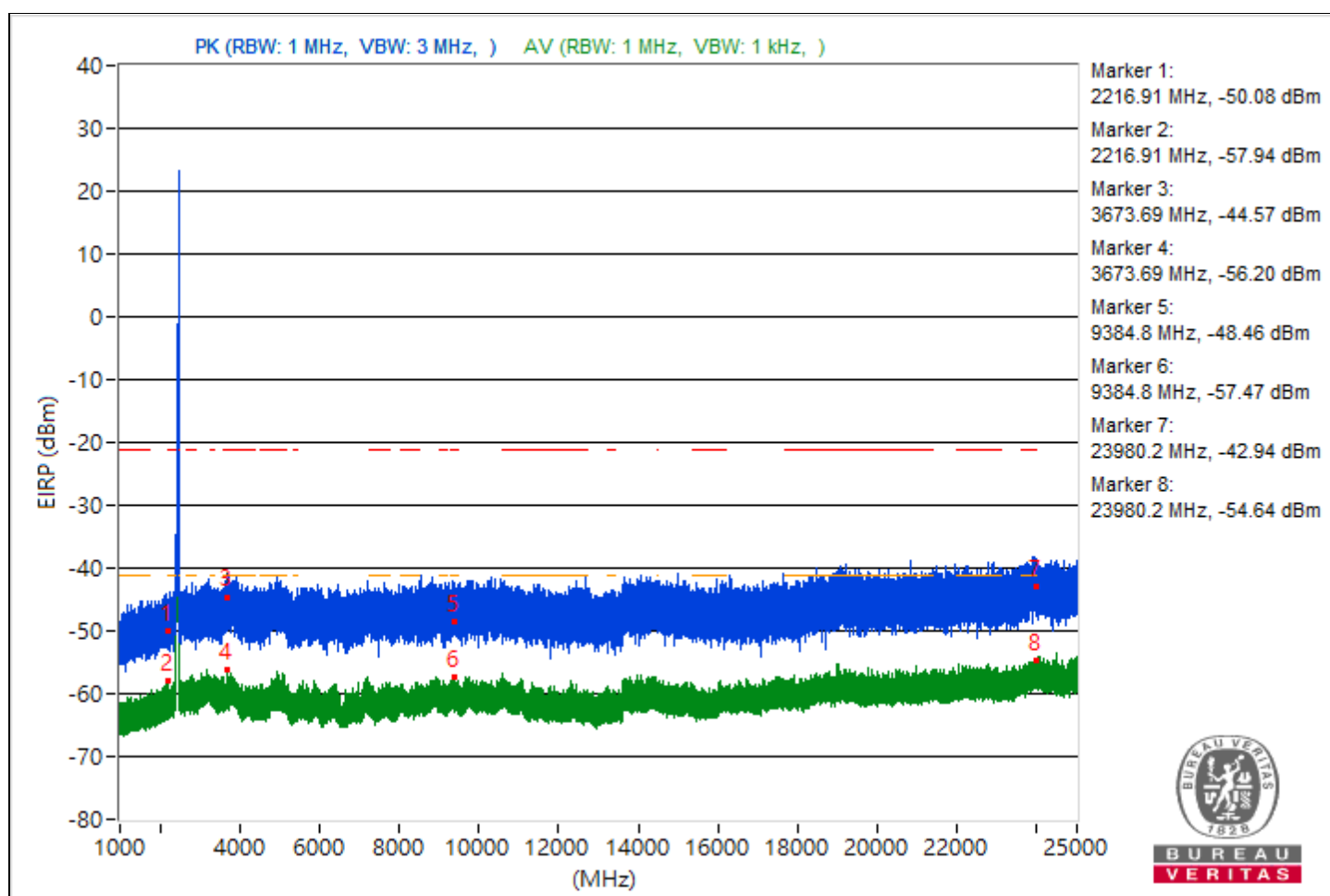
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2216.91	45.18 PK	74	-28.82	-55.24	5.16	-50.08
2	2216.91	37.32 AV	54	-16.68	-63.1	5.16	-57.94
3	3673.69	50.69 PK	74	-23.31	-49.73	5.16	-44.57
4	3673.69	39.06 AV	54	-14.94	-61.36	5.16	-56.2
5	9384.8	46.8 PK	74	-27.2	-53.62	5.16	-48.46
6	9384.8	37.79 AV	54	-16.21	-62.63	5.16	-57.47
7	23980.2	52.32 PK	74	-21.68	-48.1	5.16	-42.94
8	23980.2	40.62 AV	54	-13.38	-59.8	5.16	-54.64

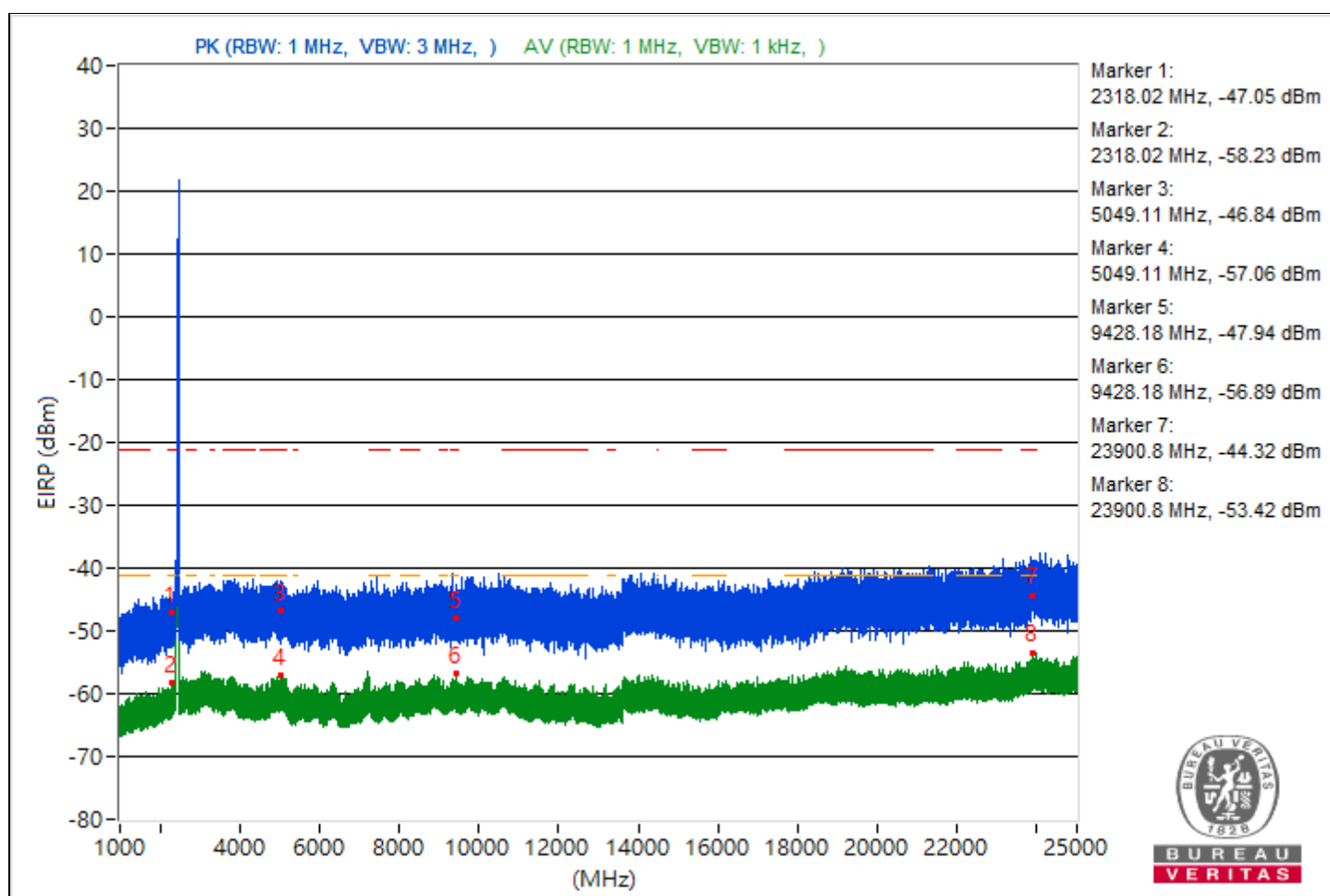
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2318.02	48.21 PK	74	-25.79	-52.21	5.16	-47.05
2	2318.02	37.03 AV	54	-16.97	-63.39	5.16	-58.23
3	5049.11	48.42 PK	74	-25.58	-52	5.16	-46.84
4	5049.11	38.2 AV	54	-15.8	-62.22	5.16	-57.06
5	9428.18	47.32 PK	74	-26.68	-53.1	5.16	-47.94
6	9428.18	38.37 AV	54	-15.63	-62.05	5.16	-56.89
7	23900.8	50.94 PK	74	-23.06	-49.48	5.16	-44.32
8	23900.8	41.84 AV	54	-12.16	-58.58	5.16	-53.42

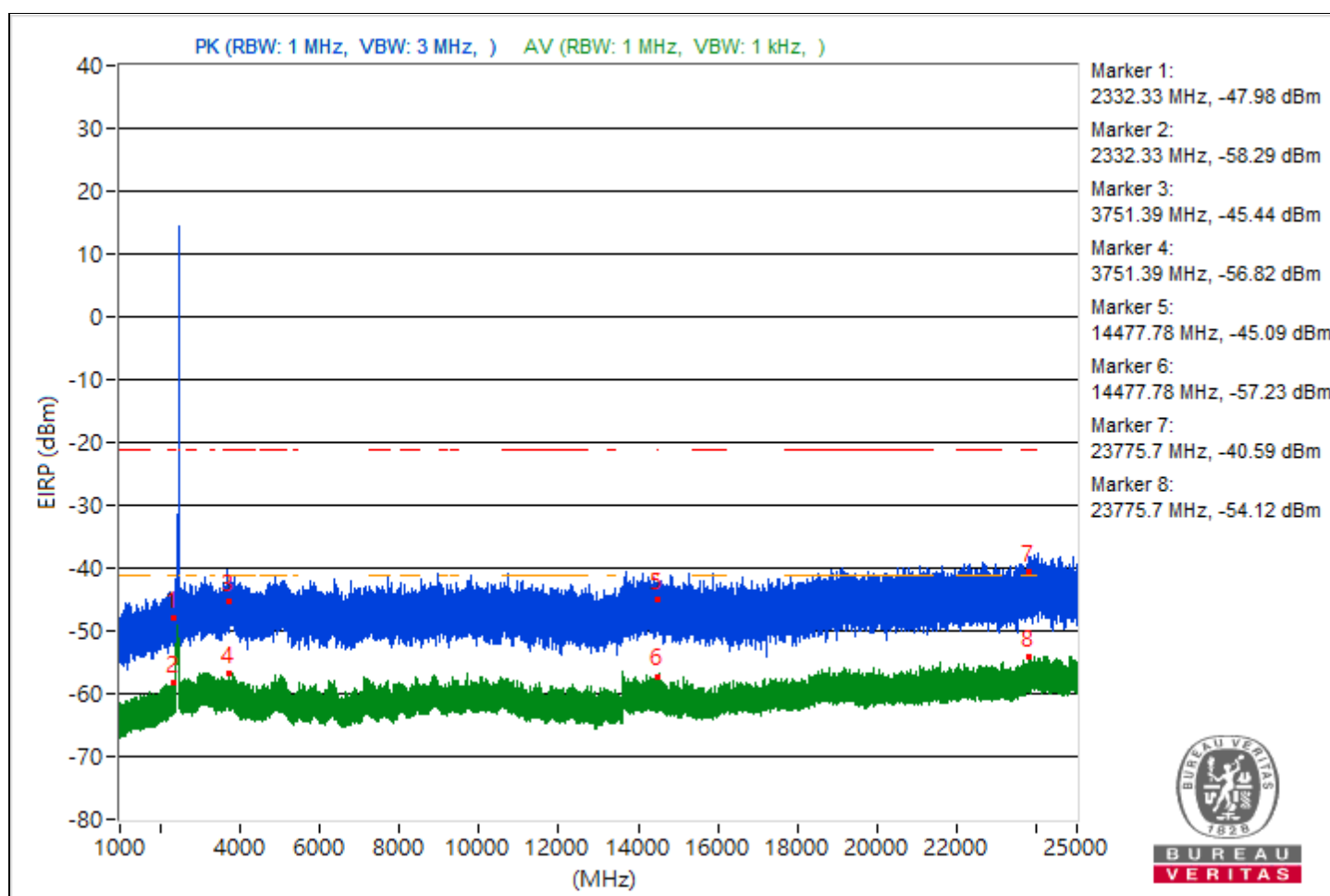
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2332.33	47.28 PK	74	-26.72	-53.14	5.16	-47.98
2	2332.33	36.97 AV	54	-17.03	-63.45	5.16	-58.29
3	3751.39	49.82 PK	74	-24.18	-50.6	5.16	-45.44
4	3751.39	38.44 AV	54	-15.56	-61.98	5.16	-56.82
5	14477.78	50.17 PK	74	-23.83	-50.25	5.16	-45.09
6	14477.78	38.03 AV	54	-15.97	-62.39	5.16	-57.23
7	23775.7	54.67 PK	74	-19.33	-45.75	5.16	-40.59
8	23775.7	41.14 AV	54	-12.86	-59.28	5.16	-54.12

Note: Margin value = Emission Level - Limit value



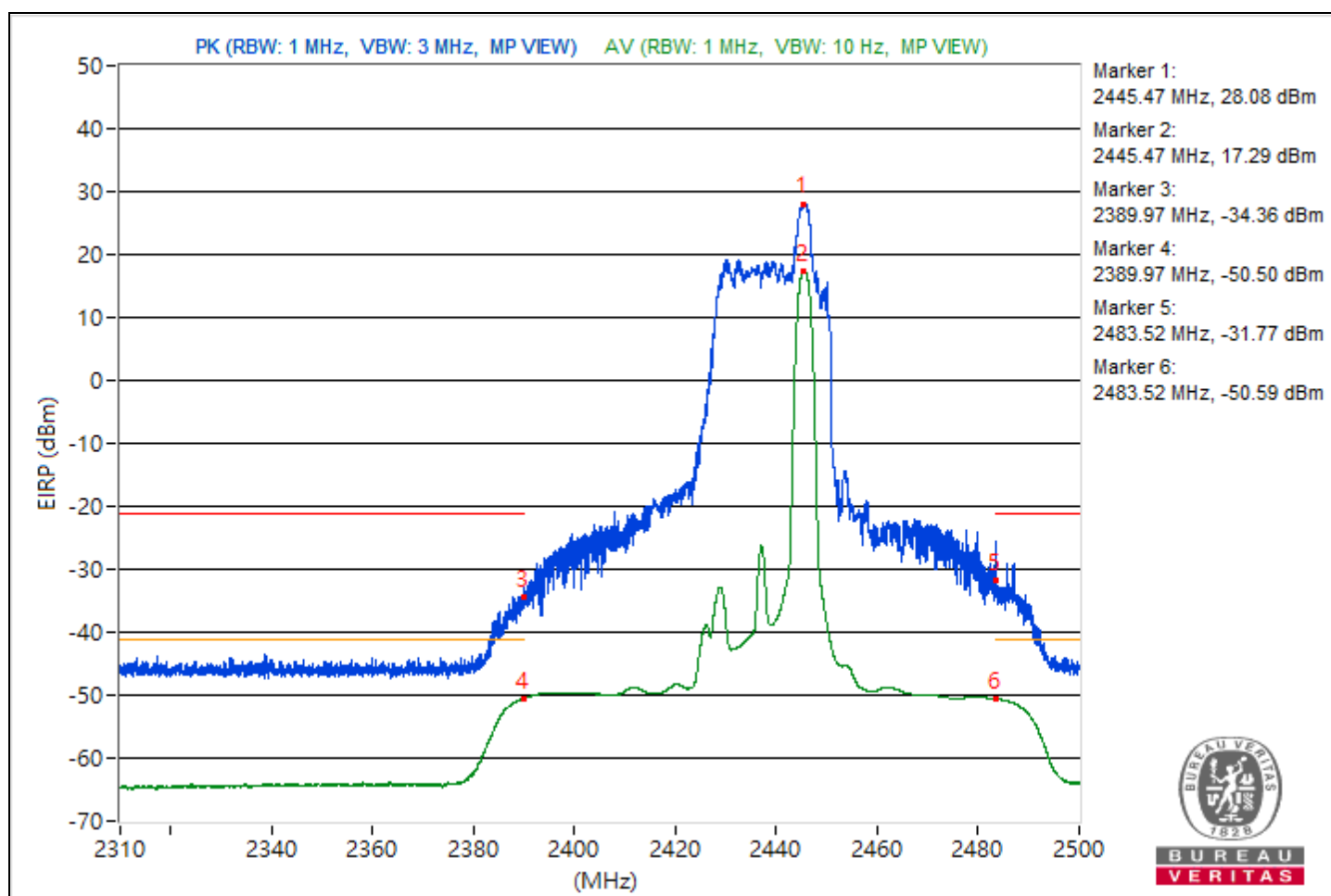
Conducted Band Edges

RF Mode	802.11be (EHT20) 26-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	#2445.47	123.34 PK			24.55	3.53	28.08
2	#2445.47	112.55 AV			13.76	3.53	17.29
3	2389.97	60.9 PK	74	-13.1	-37.89	3.53	-34.36
4	2389.97	44.76 AV	54	-9.24	-54.03	3.53	-50.5
5	2483.52	63.49 PK	74	-10.51	-35.3	3.53	-31.77
6	2483.52	44.67 AV	54	-9.33	-54.12	3.53	-50.59

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.

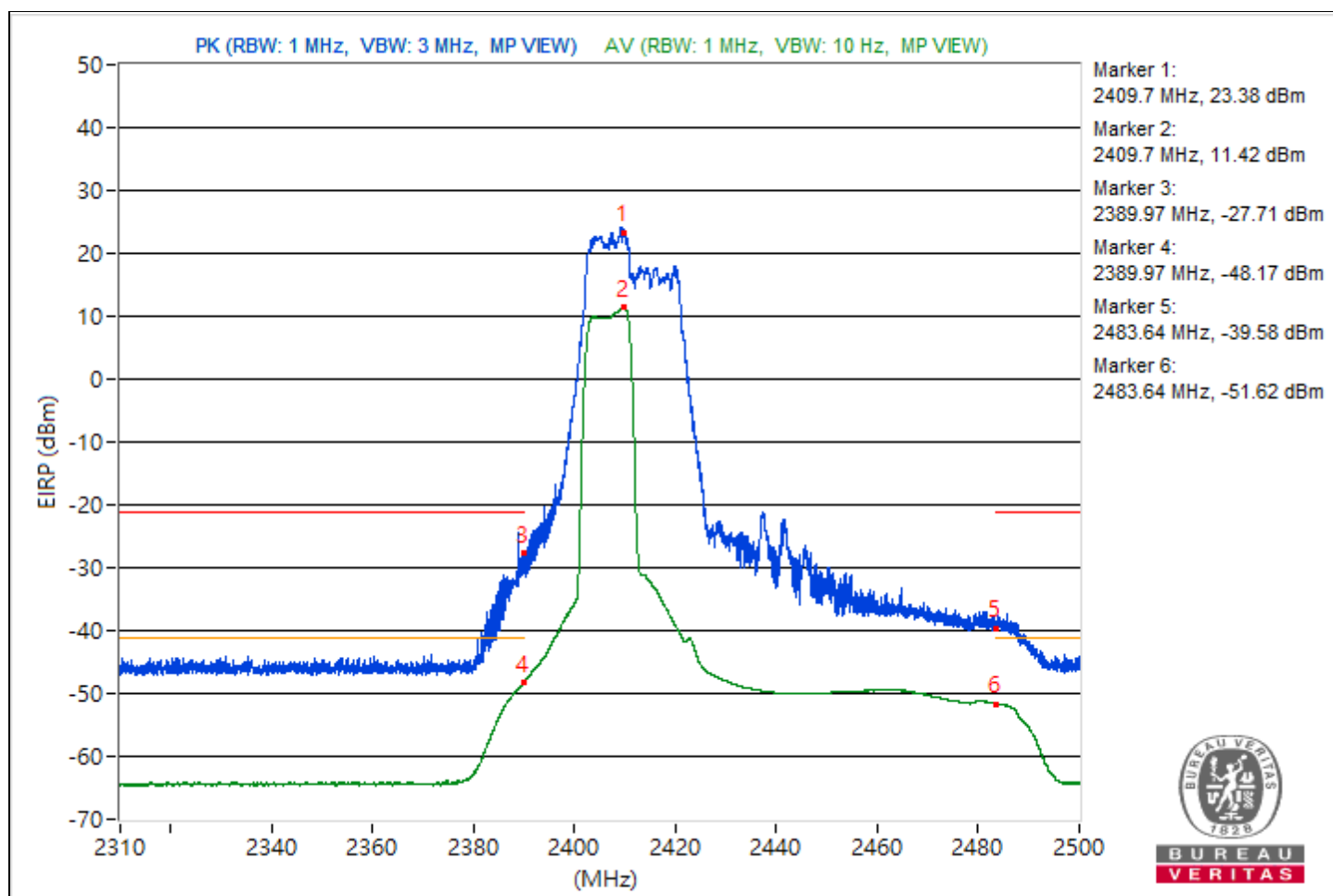


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2409.7	118.64 PK			19.85	3.53	23.38
2	*2409.7	106.68 AV			7.89	3.53	11.42
3	2389.97	67.55 PK	74	-6.45	-31.24	3.53	-27.71
4	2389.97	47.09 AV	54	-6.91	-51.7	3.53	-48.17
5	2483.64	55.68 PK	74	-18.32	-43.11	3.53	-39.58
6	2483.64	43.64 AV	54	-10.36	-55.15	3.53	-51.62

Notes:

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

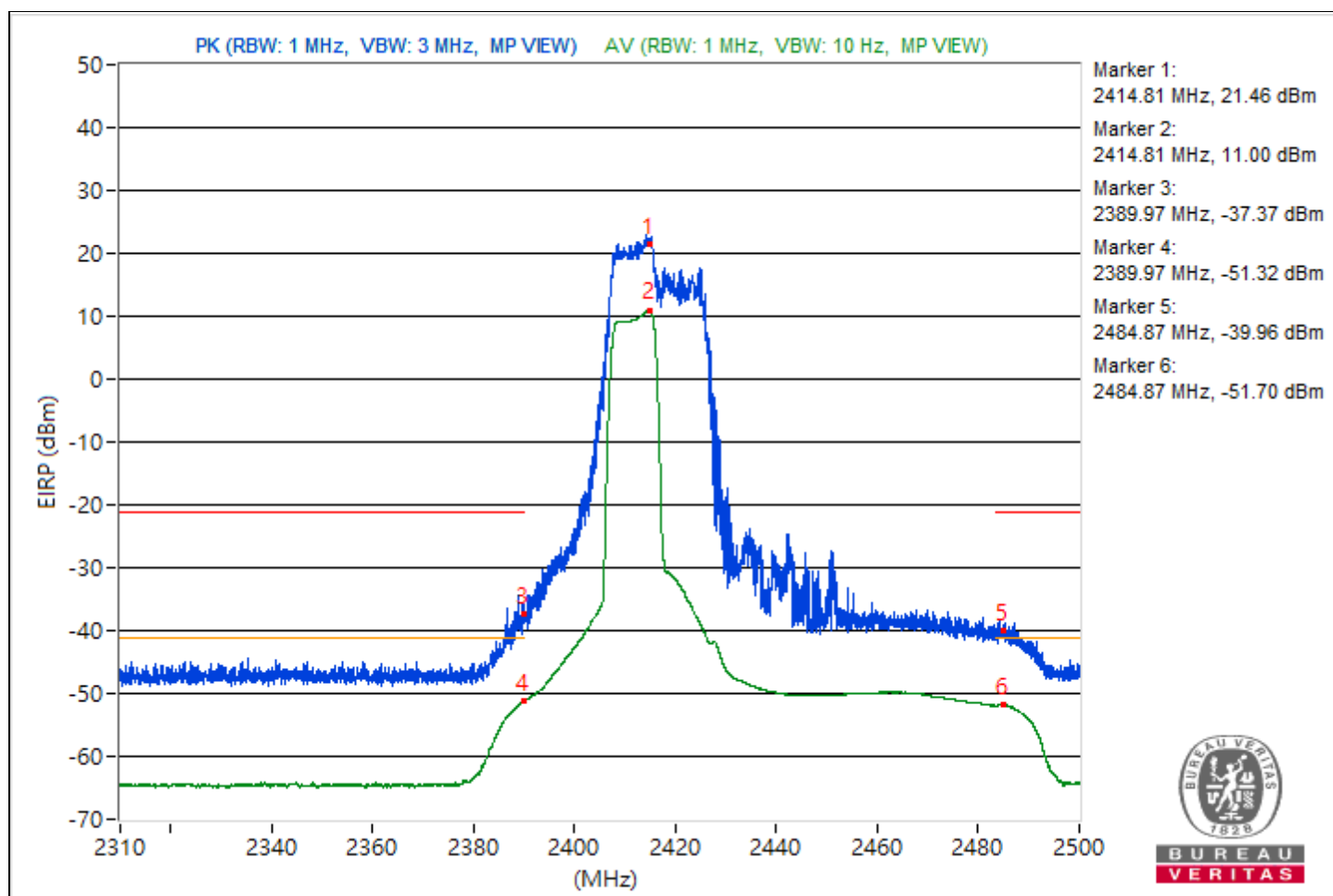


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 2 : 2417 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2414.81	116.72 PK			17.93	3.53	21.46
2	*2414.81	106.26 AV			7.47	3.53	11
3	2389.97	57.89 PK	74	-16.11	-40.9	3.53	-37.37
4	2389.97	43.94 AV	54	-10.06	-54.85	3.53	-51.32
5	2484.87	55.3 PK	74	-18.7	-43.49	3.53	-39.96
6	2484.87	43.56 AV	54	-10.44	-55.23	3.53	-51.7

Notes:

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

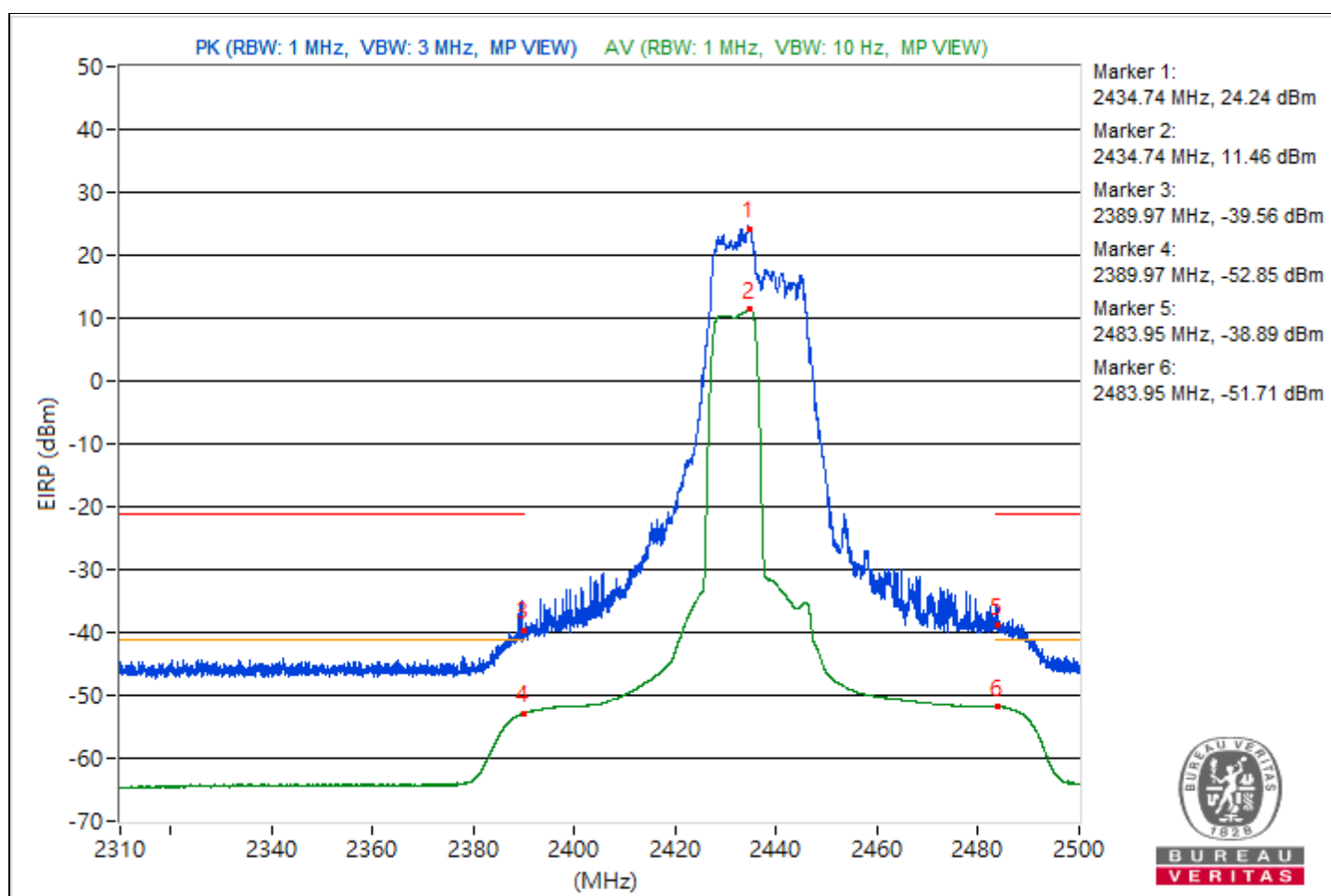


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2434.74	119.5 PK			20.71	3.53	24.24
2	*2434.74	106.72 AV			7.93	3.53	11.46
3	2389.97	55.7 PK	74	-18.3	-43.09	3.53	-39.56
4	2389.97	42.41 AV	54	-11.59	-56.38	3.53	-52.85
5	2483.95	56.37 PK	74	-17.63	-42.42	3.53	-38.89
6	2483.95	43.55 AV	54	-10.45	-55.24	3.53	-51.71

Notes:

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

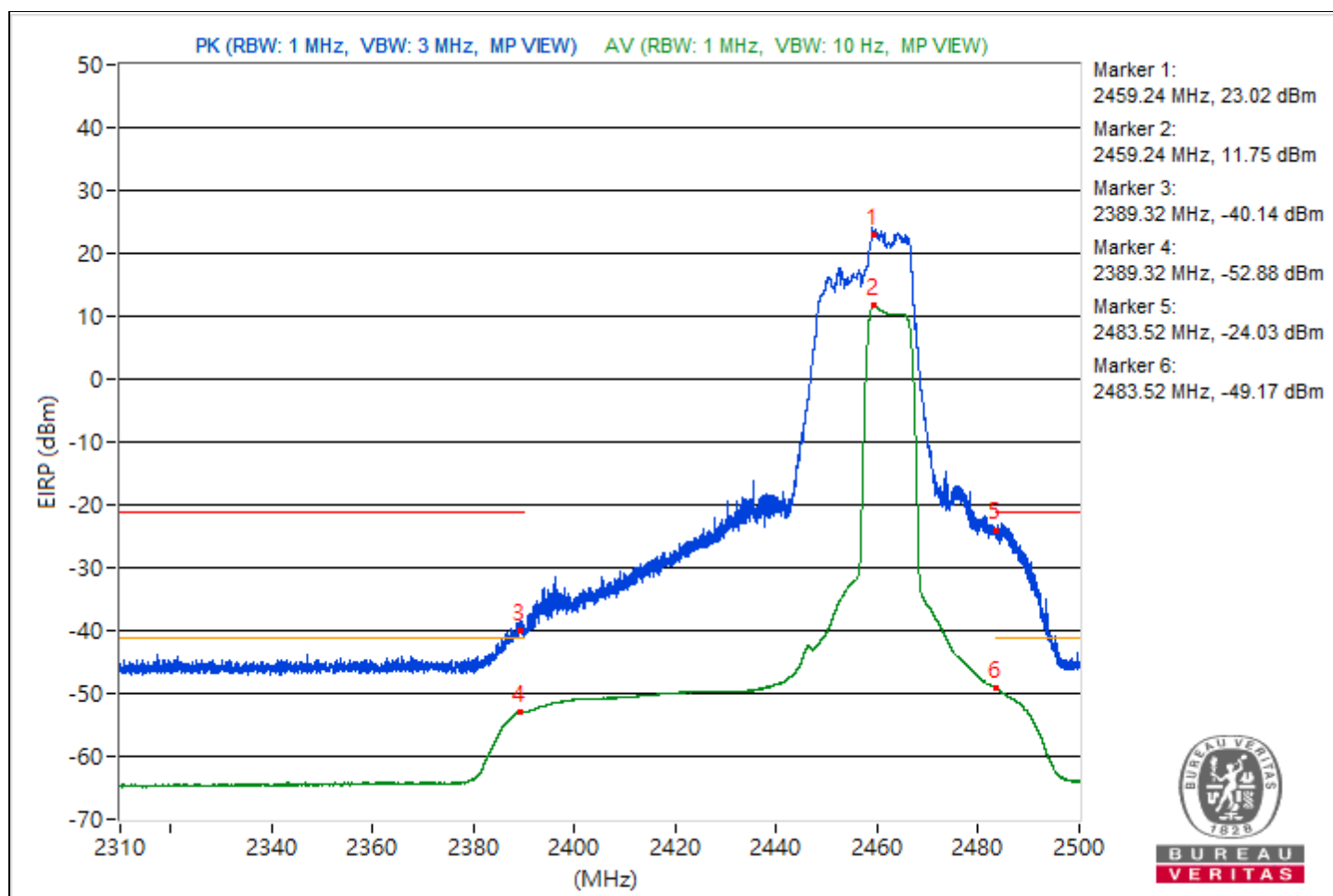


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2459.24	118.28 PK			19.49	3.53	23.02
2	*2459.24	107.01 AV			8.22	3.53	11.75
3	2389.32	55.12 PK	74	-18.88	-43.67	3.53	-40.14
4	2389.32	42.38 AV	54	-11.62	-56.41	3.53	-52.88
5	2483.52	71.23 PK	74	-2.77	-27.56	3.53	-24.03
6	2483.52	46.09 AV	54	-7.91	-52.7	3.53	-49.17

Notes:

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

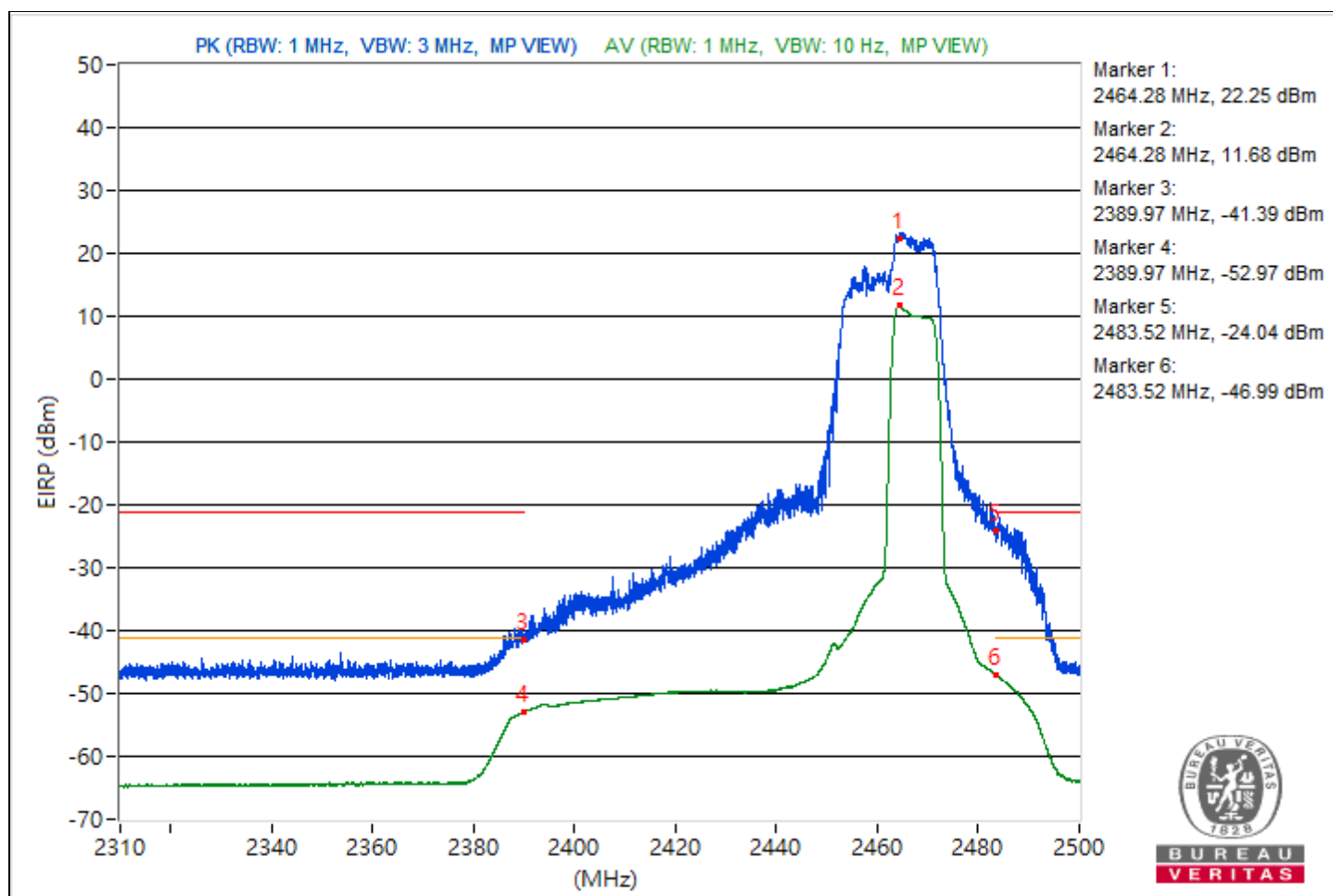


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2464.28	117.51 PK			18.72	3.53	22.25
2	*2464.28	106.94 AV			8.15	3.53	11.68
3	2389.97	53.87 PK	74	-20.13	-44.92	3.53	-41.39
4	2389.97	42.29 AV	54	-11.71	-56.5	3.53	-52.97
5	2483.52	71.22 PK	74	-2.78	-27.57	3.53	-24.04
6	2483.52	48.27 AV	54	-5.73	-50.52	3.53	-46.99

Notes:

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

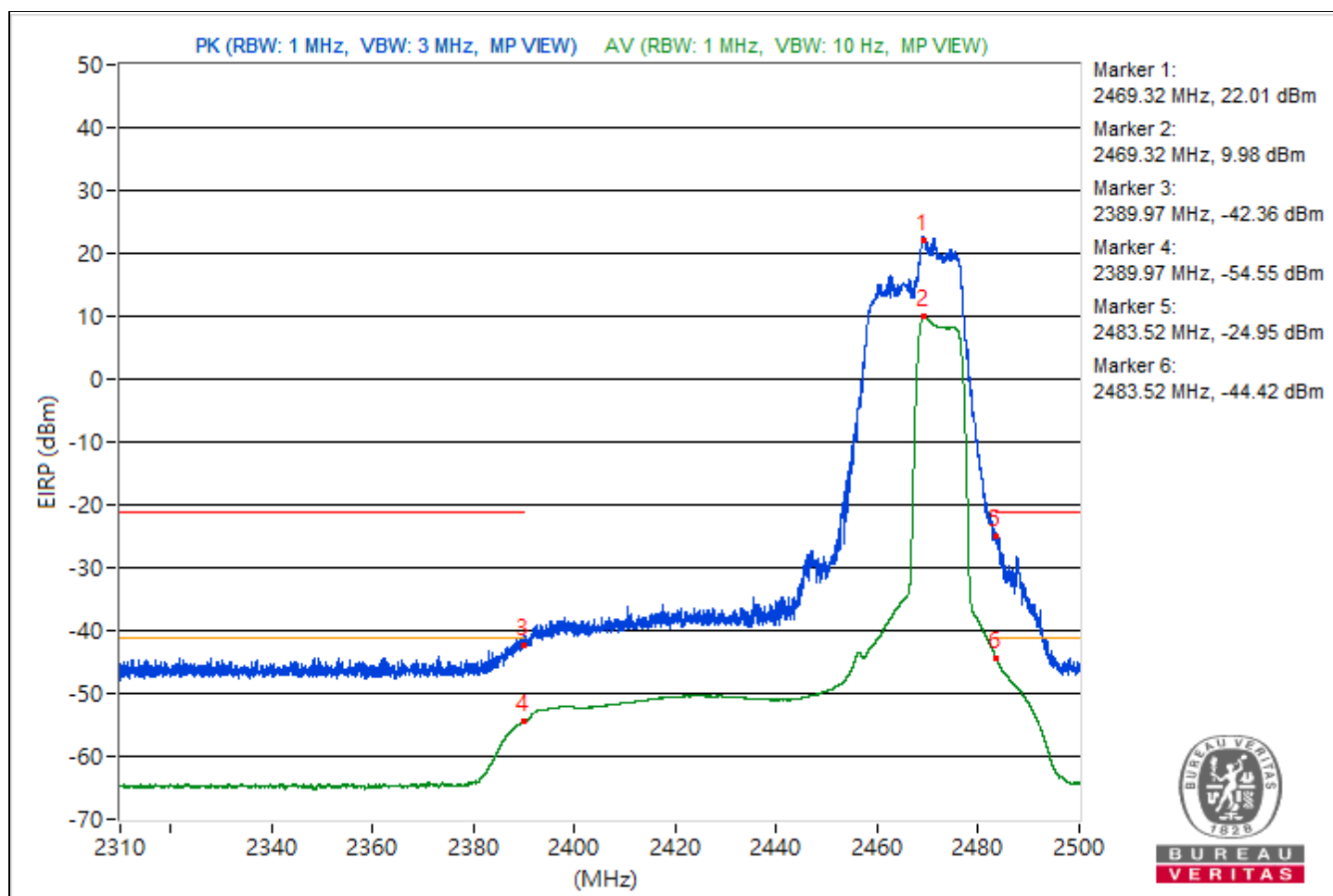


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2469.32	117.27 PK			18.48	3.53	22.01
2	*2469.32	105.24 AV			6.45	3.53	9.98
3	2389.97	52.9 PK	74	-21.1	-45.89	3.53	-42.36
4	2389.97	40.71 AV	54	-13.29	-58.08	3.53	-54.55
5	2483.52	70.31 PK	74	-3.69	-28.48	3.53	-24.95
6	2483.52	50.84 AV	54	-3.16	-47.95	3.53	-44.42

Notes:

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

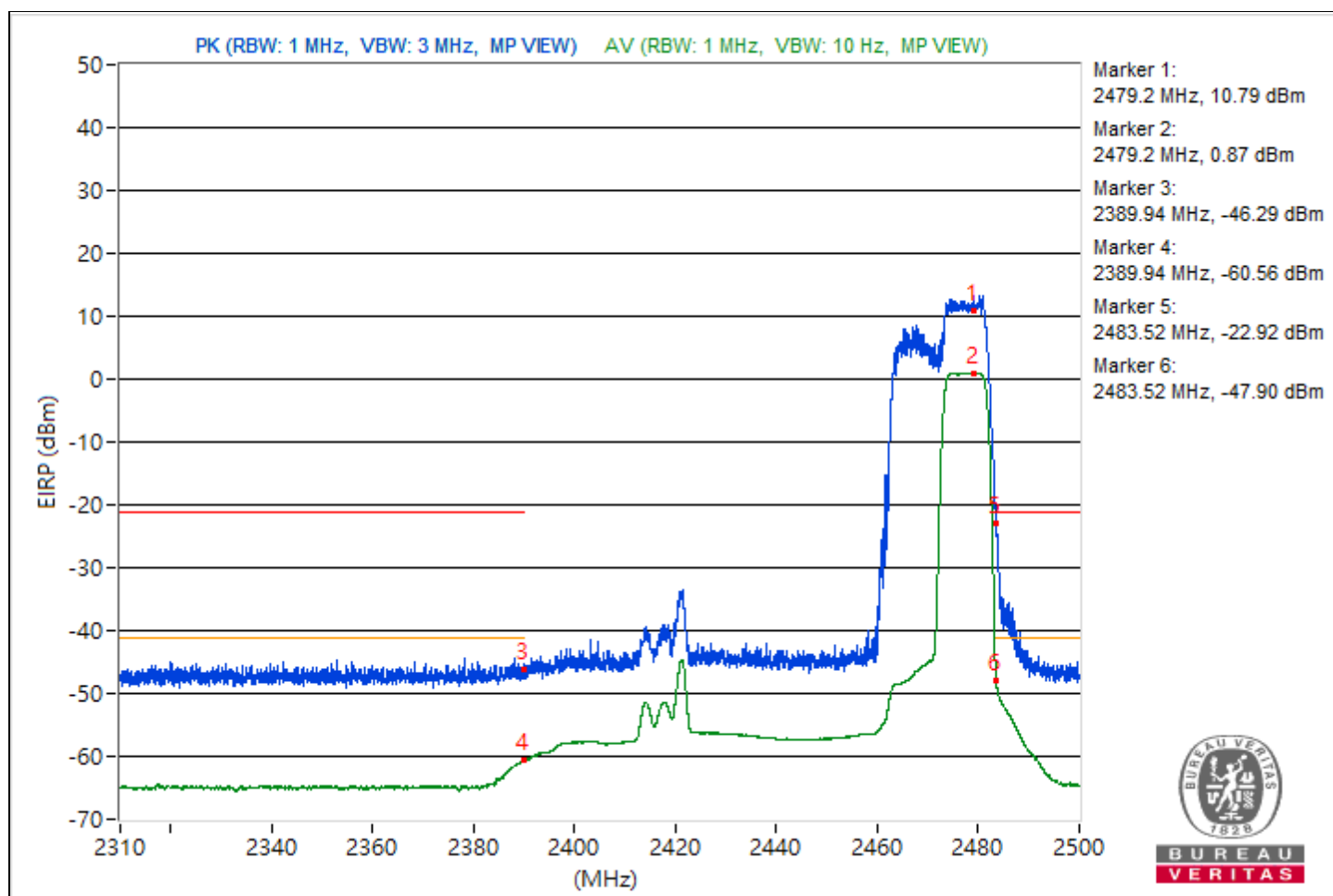


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2479.2	106.05 PK			7.26	3.53	10.79
2	*2479.2	96.13 AV			-2.66	3.53	0.87
3	2389.94	48.97 PK	74	-25.03	-49.82	3.53	-46.29
4	2389.94	34.7 AV	54	-19.3	-64.09	3.53	-60.56
5	2483.52	72.34 PK	74	-1.66	-26.45	3.53	-22.92
6	2483.52	47.36 AV	54	-6.64	-51.43	3.53	-47.9

Notes:

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



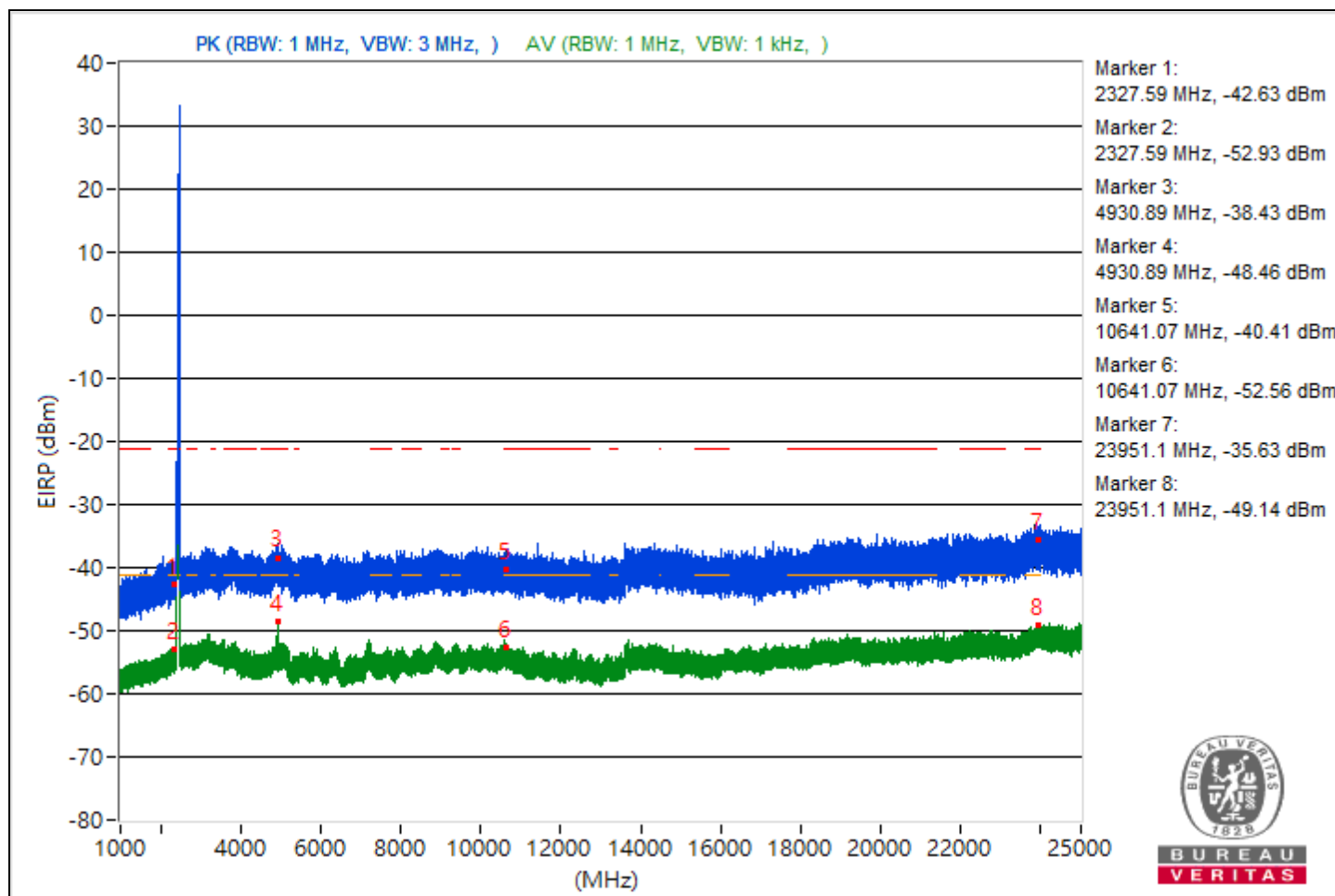
2Tx

Conducted Unwanted Emissions

RF Mode	802.11be (EHT20) 26-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2327.59	52.63 PK	74	-21.37	-52.77	-55.18	8.17	-42.63
2	2327.59	42.33 AV	54	-11.67	-66.61	-62.54	8.17	-52.93
3	4930.89	56.83 PK	74	-17.17	-49.99	-49.25	8.17	-38.43
4	4930.89	46.8 AV	54	-7.2	-59.23	-60.1	8.17	-48.46
5	10641.07	54.85 PK	74	-19.15	-52.1	-51.13	8.17	-40.41
6	10641.07	42.7 AV	54	-11.3	-62.73	-65.07	8.17	-52.56
7	23951.1	59.63 PK	74	-14.37	-47.54	-46.18	8.17	-35.63
8	23951.1	46.12 AV	54	-7.88	-63.08	-58.65	8.17	-49.14

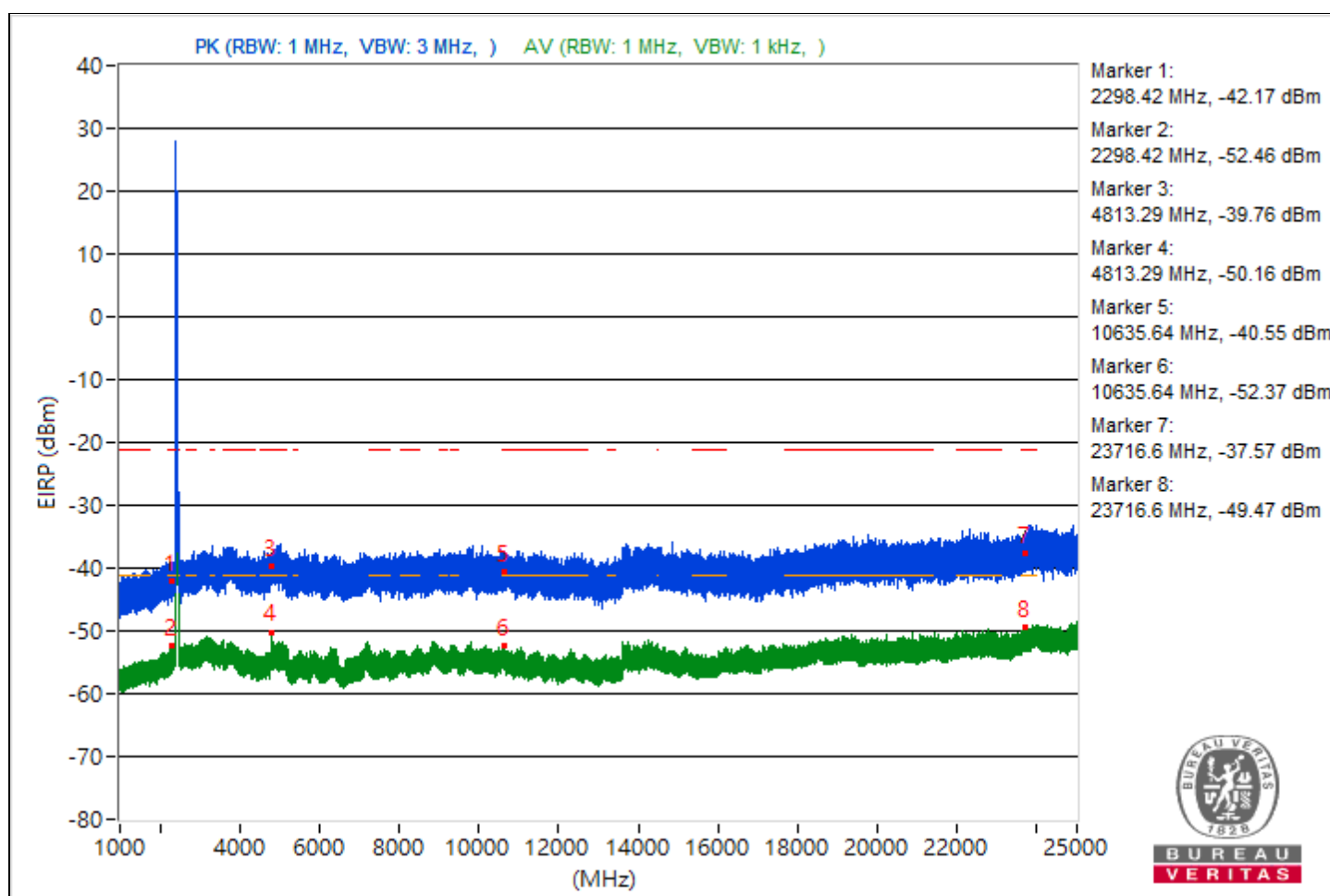
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2298.42	53.09 PK	74	-20.91	-53.19	-53.52	8.17	-42.17
2	2298.42	42.8 AV	54	-11.2	-64.64	-62.83	8.17	-52.46
3	4813.29	55.5 PK	74	-18.5	-50.8	-51.09	8.17	-39.76
4	4813.29	45.1 AV	54	-8.9	-63.54	-59.89	8.17	-50.16
5	10635.64	54.71 PK	74	-19.29	-52.65	-50.96	8.17	-40.55
6	10635.64	42.89 AV	54	-11.11	-66.03	-61.98	8.17	-52.37
7	23716.6	57.69 PK	74	-16.31	-50.79	-47.36	8.17	-37.57
8	23716.6	45.79 AV	54	-8.21	-59.1	-63.08	8.17	-49.47

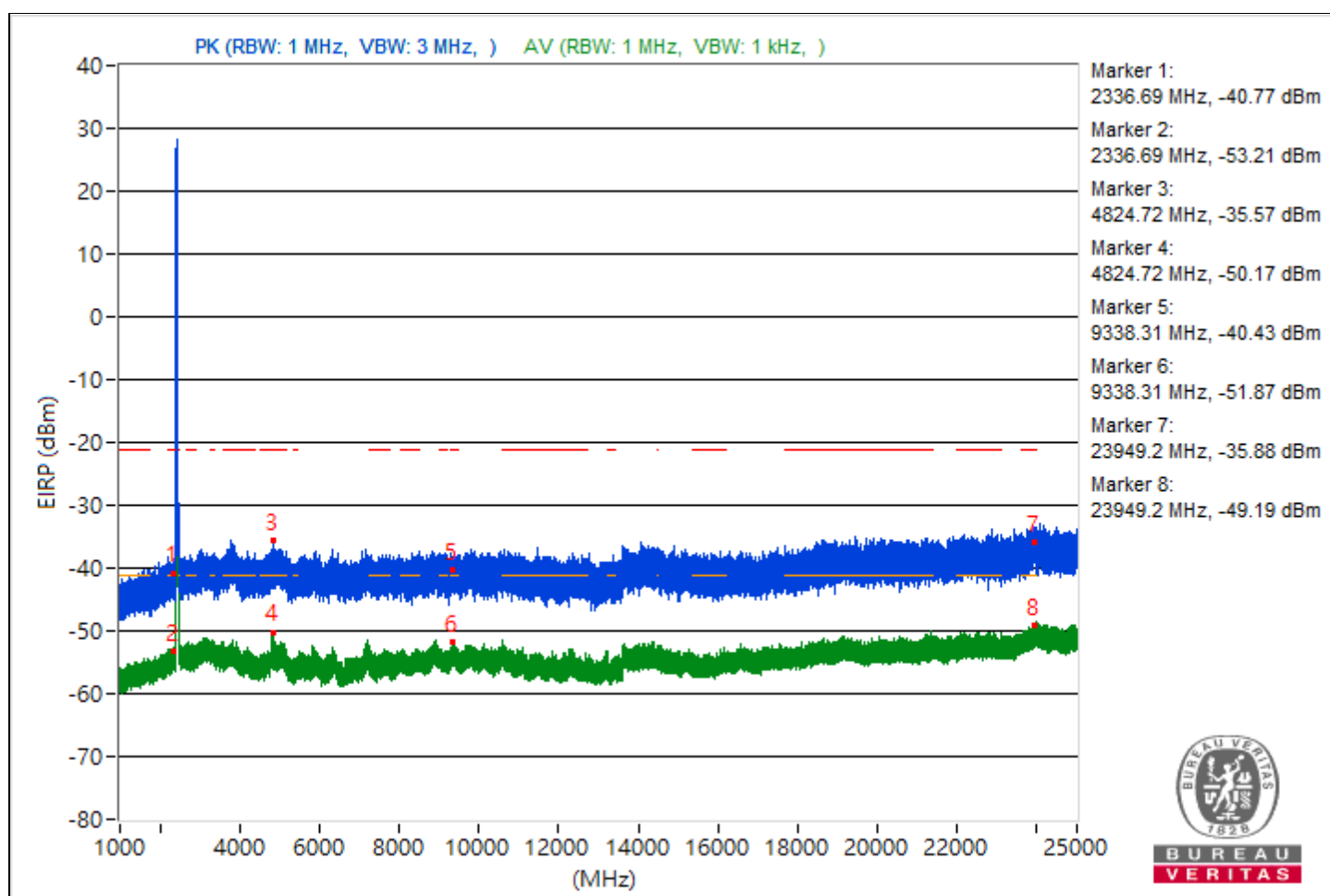
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 2 : 2417 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2336.69	54.49 PK	74	-19.51	-50.41	-54.34	8.17	-40.77
2	2336.69	42.05 AV	54	-11.95	-66.55	-62.96	8.17	-53.21
3	4824.72	59.69 PK	74	-14.31	-46.47	-47.04	8.17	-35.57
4	4824.72	45.09 AV	54	-8.91	-62.85	-60.24	8.17	-50.17
5	9338.31	54.83 PK	74	-19.17	-52.31	-51.01	8.17	-40.43
6	9338.31	43.39 AV	54	-10.61	-62.1	-64.28	8.17	-51.87
7	23949.2	59.38 PK	74	-14.62	-47.19	-46.93	8.17	-35.88
8	23949.2	46.07 AV	54	-7.93	-63.62	-58.54	8.17	-49.19

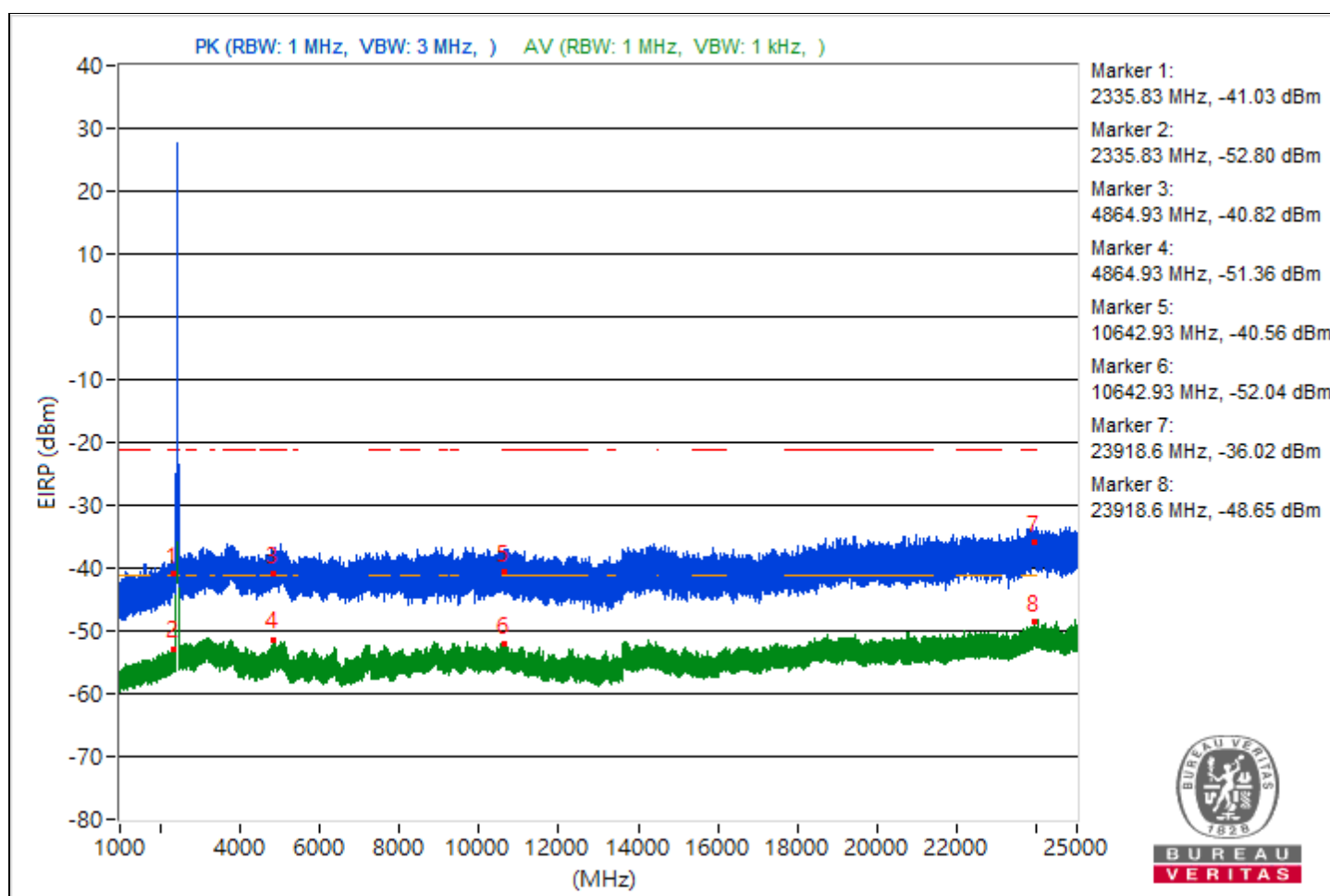
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2335.83	54.23 PK	74	-19.77	-54.29	-50.81	8.17	-41.03
2	2335.83	42.46 AV	54	-11.54	-65.08	-63.1	8.17	-52.8
3	4864.93	54.44 PK	74	-19.56	-51.31	-52.82	8.17	-40.82
4	4864.93	43.9 AV	54	-10.1	-62.13	-62.99	8.17	-51.36
5	10642.93	54.7 PK	74	-19.3	-51.33	-52.18	8.17	-40.56
6	10642.93	43.22 AV	54	-10.78	-65	-61.97	8.17	-52.04
7	23918.6	59.24 PK	74	-14.76	-47.02	-47.39	8.17	-36.02
8	23918.6	46.61 AV	54	-7.39	-61.06	-58.87	8.17	-48.65

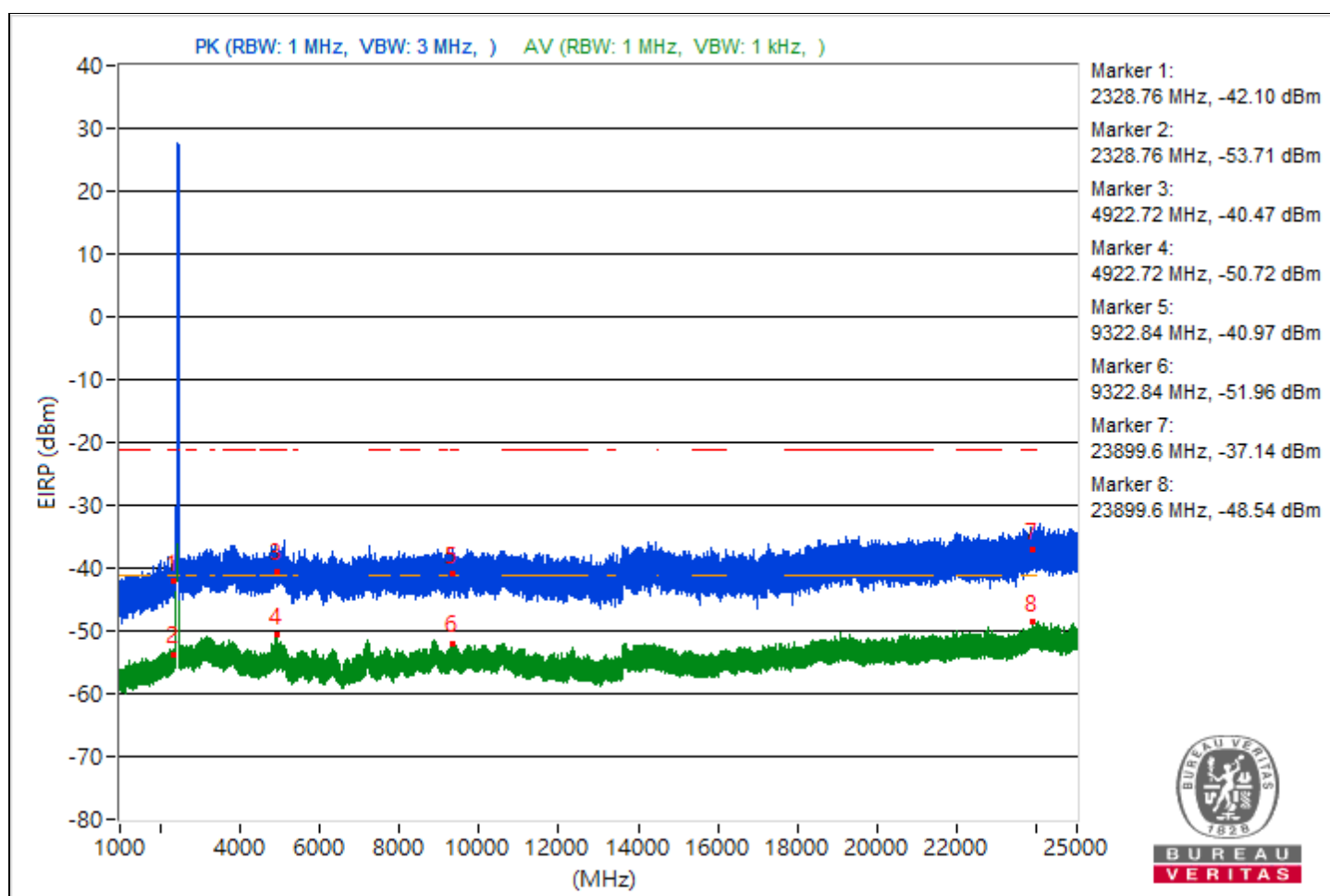
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2328.76	53.16 PK	74	-20.84	-52.82	-53.79	8.17	-42.1
2	2328.76	41.55 AV	54	-12.45	-67.65	-63.22	8.17	-53.71
3	4922.72	54.79 PK	74	-19.21	-51.15	-52.2	8.17	-40.47
4	4922.72	44.54 AV	54	-9.46	-64.05	-60.47	8.17	-50.72
5	9322.84	54.29 PK	74	-19.71	-55.64	-50.25	8.17	-40.97
6	9322.84	43.3 AV	54	-10.7	-65.65	-61.55	8.17	-51.96
7	23899.6	58.12 PK	74	-15.88	-51.16	-46.61	8.17	-37.14
8	23899.6	46.72 AV	54	-7.28	-62.16	-58.17	8.17	-48.54

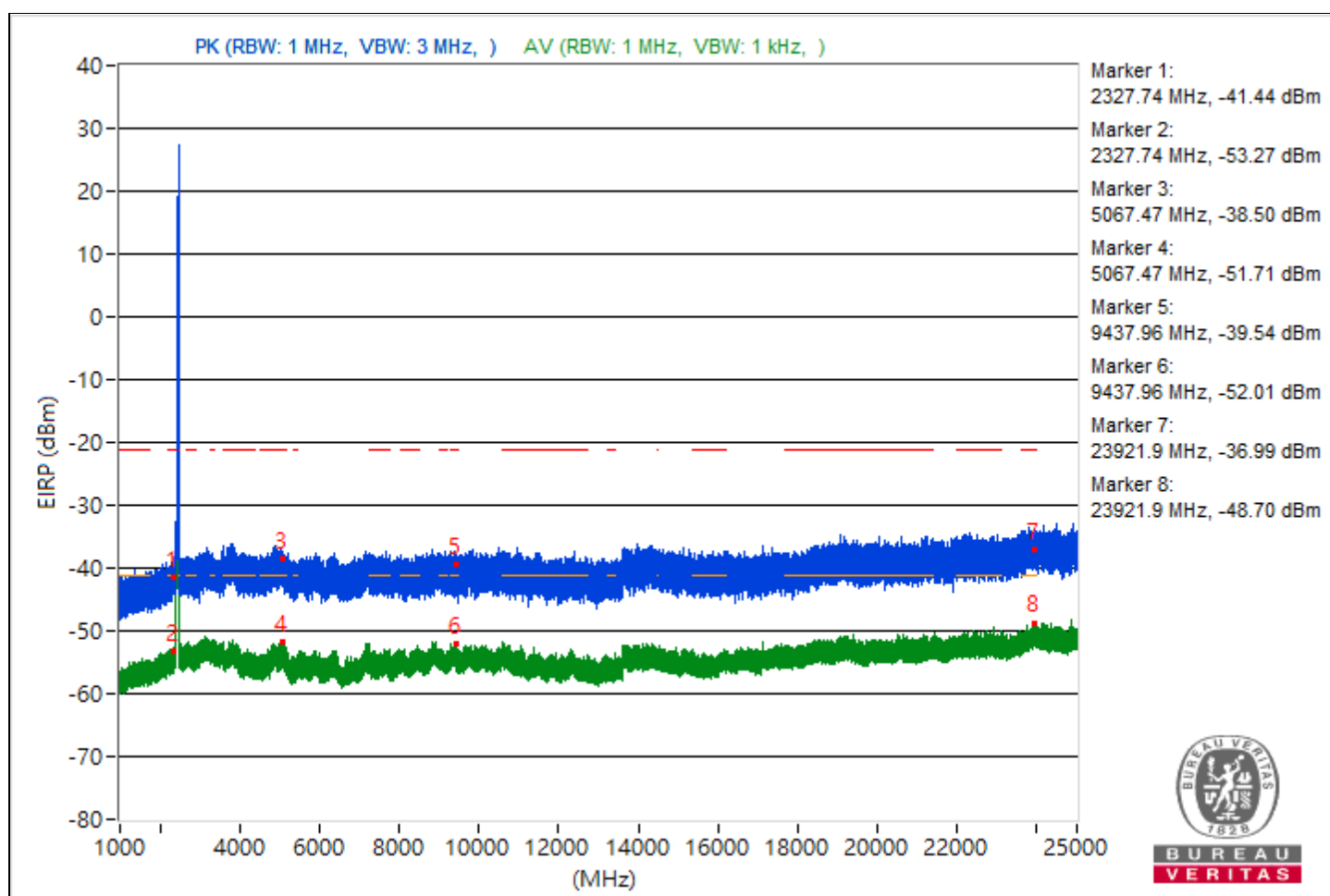
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2327.74	53.82 PK	74	-20.18	-53.68	-51.78	8.17	-41.44
2	2327.74	41.99 AV	54	-12.01	-67.4	-62.71	8.17	-53.27
3	5067.47	56.76 PK	74	-17.24	-51.24	-48.54	8.17	-38.5
4	5067.47	43.55 AV	54	-10.45	-64.96	-61.49	8.17	-51.71
5	9437.96	55.72 PK	74	-18.28	-50.72	-50.72	8.17	-39.54
6	9437.96	43.25 AV	54	-10.75	-65.05	-61.89	8.17	-52.01
7	23921.9	58.27 PK	74	-15.73	-49.05	-47.43	8.17	-36.99
8	23921.9	46.56 AV	54	-7.44	-61.56	-58.68	8.17	-48.7

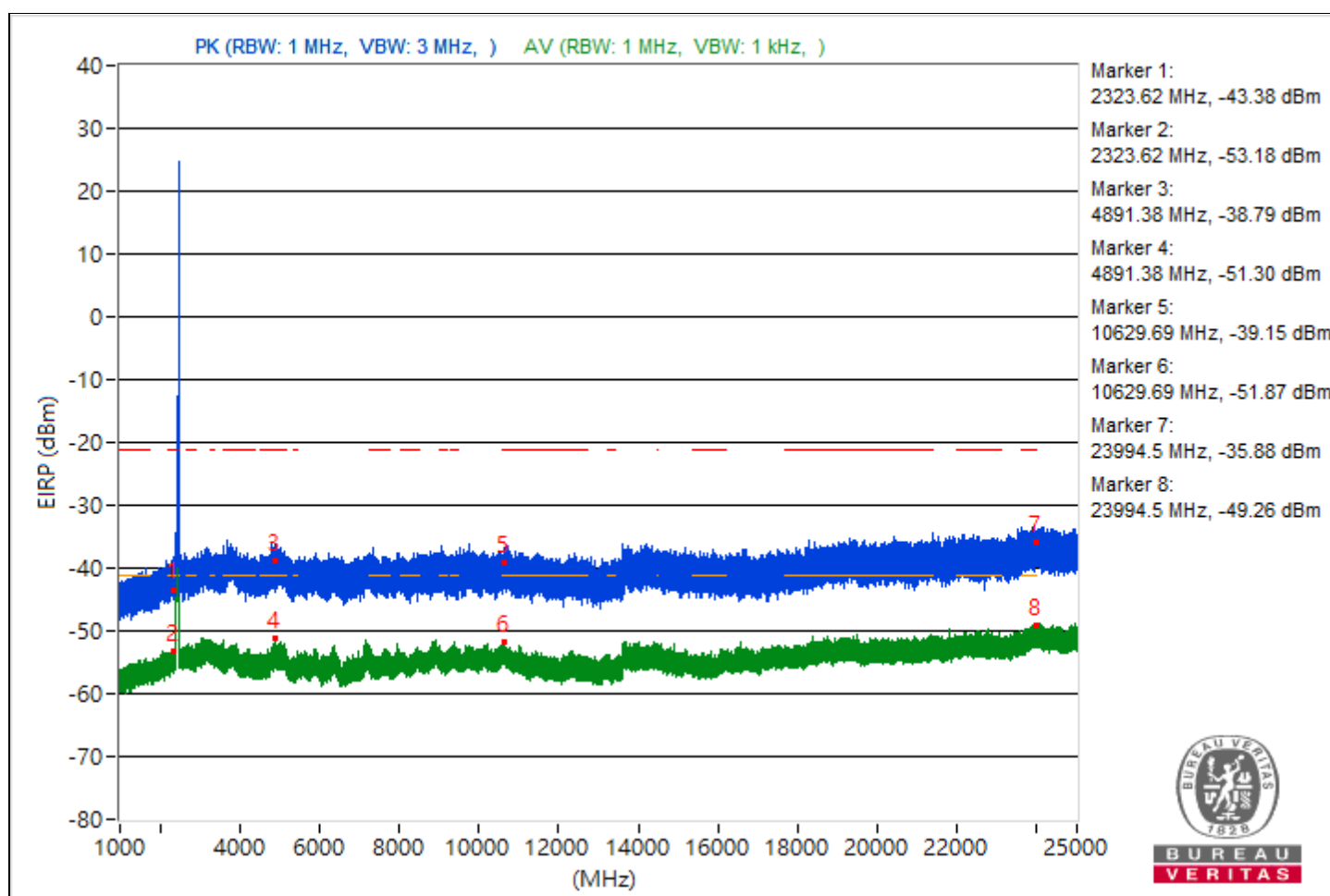
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2323.62	51.88 PK	74	-22.12	-55.27	-53.95	8.17	-43.38
2	2323.62	42.08 AV	54	-11.92	-66.13	-63.11	8.17	-53.18
3	4891.38	56.47 PK	74	-17.53	-49.78	-50.17	8.17	-38.79
4	4891.38	43.96 AV	54	-10.04	-65.32	-60.78	8.17	-51.3
5	10629.69	56.11 PK	74	-17.89	-50.45	-50.22	8.17	-39.15
6	10629.69	43.39 AV	54	-10.61	-65.25	-61.59	8.17	-51.87
7	23994.5	59.38 PK	74	-14.62	-46.19	-48.14	8.17	-35.88
8	23994.5	46 AV	54	-8	-62.72	-58.95	8.17	-49.26

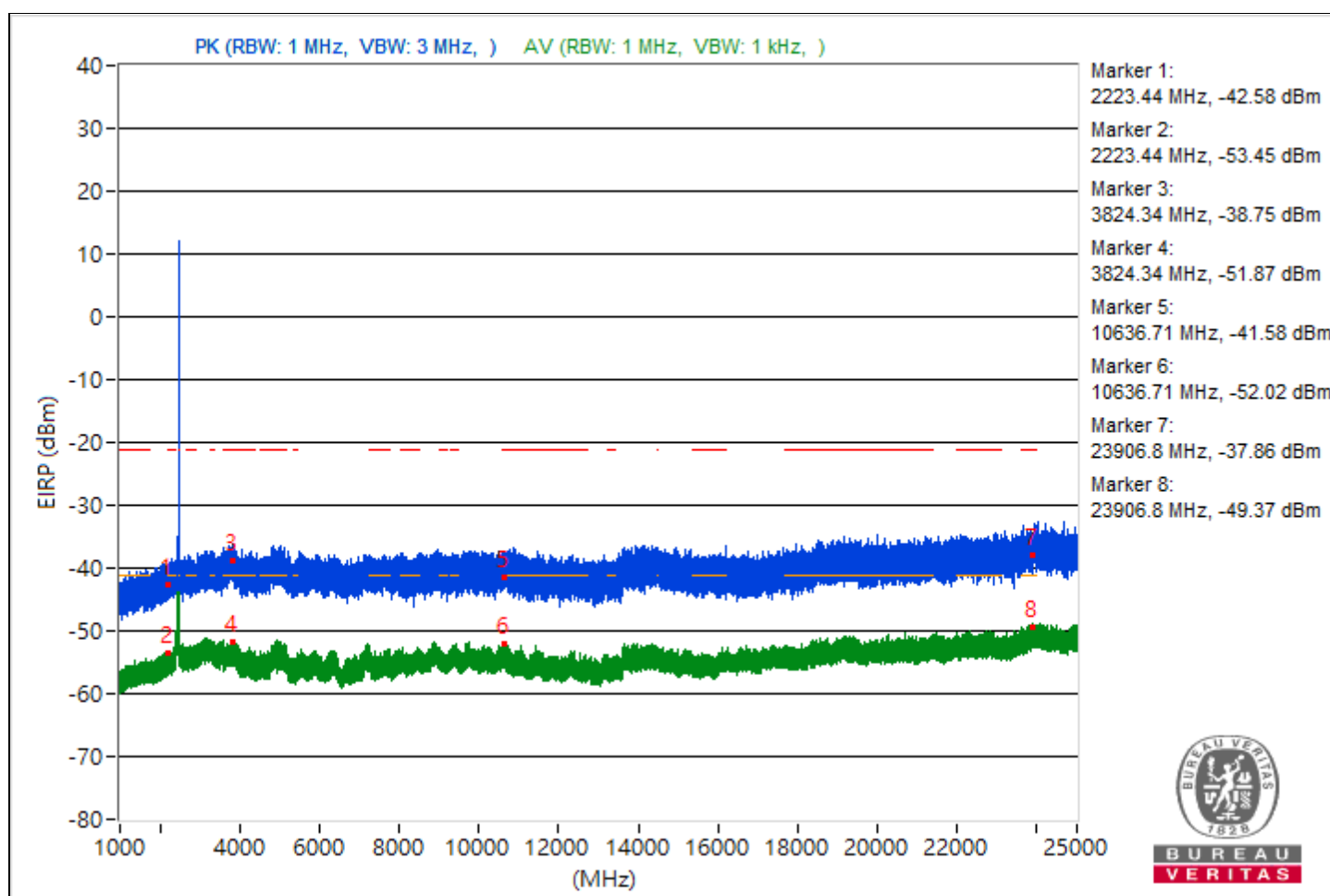
Note: Margin value = Emission Level - Limit value



RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	2223.44	52.68 PK	74	-21.32	-53.4	-54.16	8.17	-42.58
2	2223.44	41.81 AV	54	-12.19	-68.01	-62.75	8.17	-53.45
3	3824.34	56.51 PK	74	-17.49	-50.92	-49.12	8.17	-38.75
4	3824.34	43.39 AV	54	-10.61	-65.46	-61.51	8.17	-51.87
5	10636.71	53.68 PK	74	-20.32	-53.15	-52.41	8.17	-41.58
6	10636.71	43.24 AV	54	-10.76	-66.23	-61.43	8.17	-52.02
7	23906.8	57.4 PK	74	-16.6	-49	-49.08	8.17	-37.86
8	23906.8	45.89 AV	54	-8.11	-64.03	-58.64	8.17	-49.37

Note: Margin value = Emission Level - Limit value



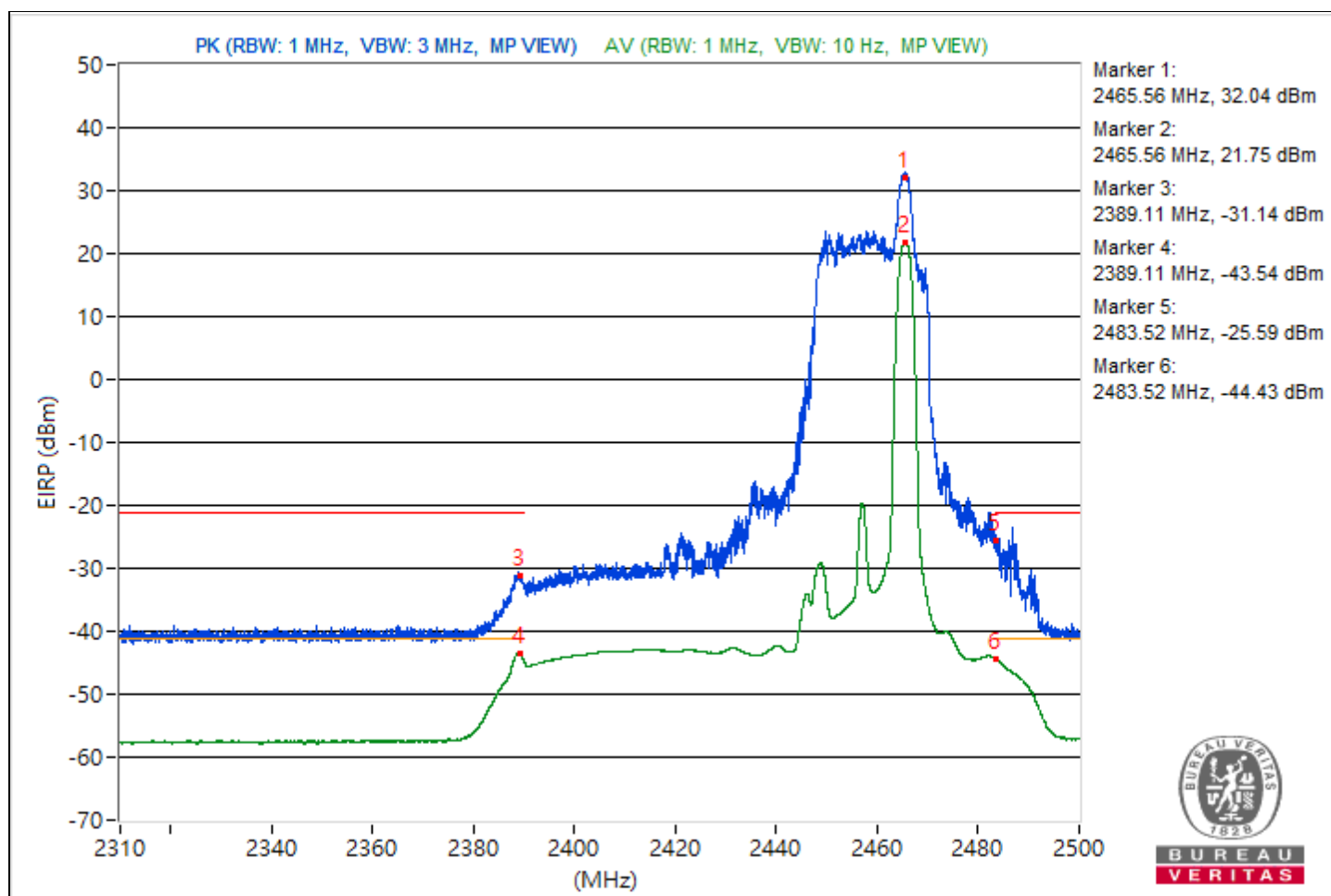
Conducted Band Edges

RF Mode	802.11be (EHT20) 26-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2465.56	127.3 PK			22.65	22.32	6.54	32.04
2	*2465.56	117.01 AV			12.7	11.64	6.54	21.75
3	2389.11	64.12 PK	74	-9.88	-41.77	-39.83	6.54	-31.14
4	2389.11	51.72 AV	54	-2.28	-54.16	-52.24	6.54	-43.54
5	2483.52	69.67 PK	74	-4.33	-34.44	-35.97	6.54	-25.59
6	2483.52	50.83 AV	54	-3.17	-54.2	-53.77	6.54	-44.43

Notes:

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

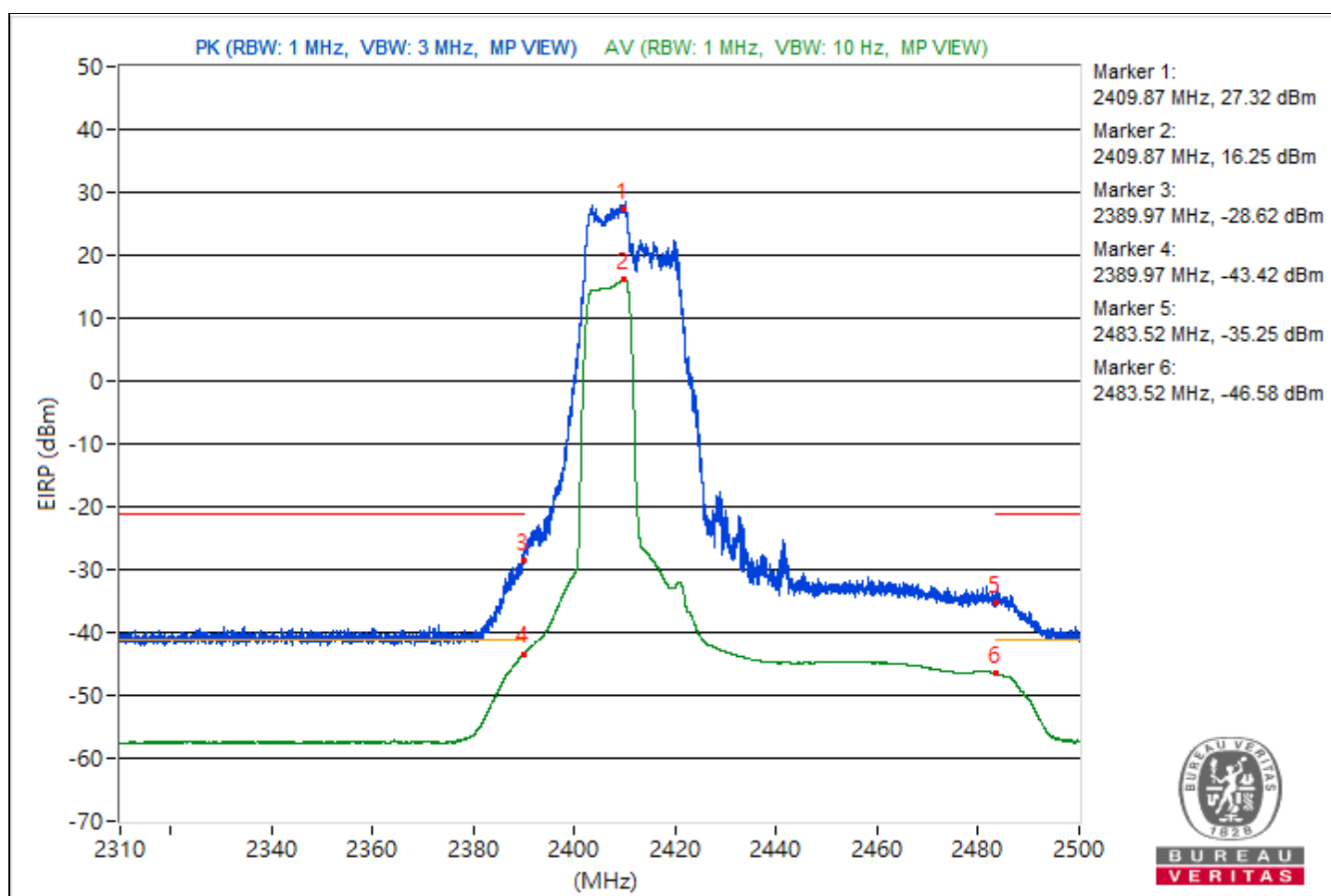


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2409.87	122.58 PK			18.04	17.49	6.54	27.32
2	*2409.87	111.51 AV			6.81	6.59	6.54	16.25
3	2389.97	66.64 PK	74	-7.36	-38.89	-37.55	6.54	-28.62
4	2389.97	51.84 AV	54	-2.16	-53.47	-52.52	6.54	-43.42
5	2483.52	60.01 PK	74	-13.99	-45.57	-44.15	6.54	-35.25
6	2483.52	48.68 AV	54	-5.32	-56.71	-55.62	6.54	-46.58

Notes:

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

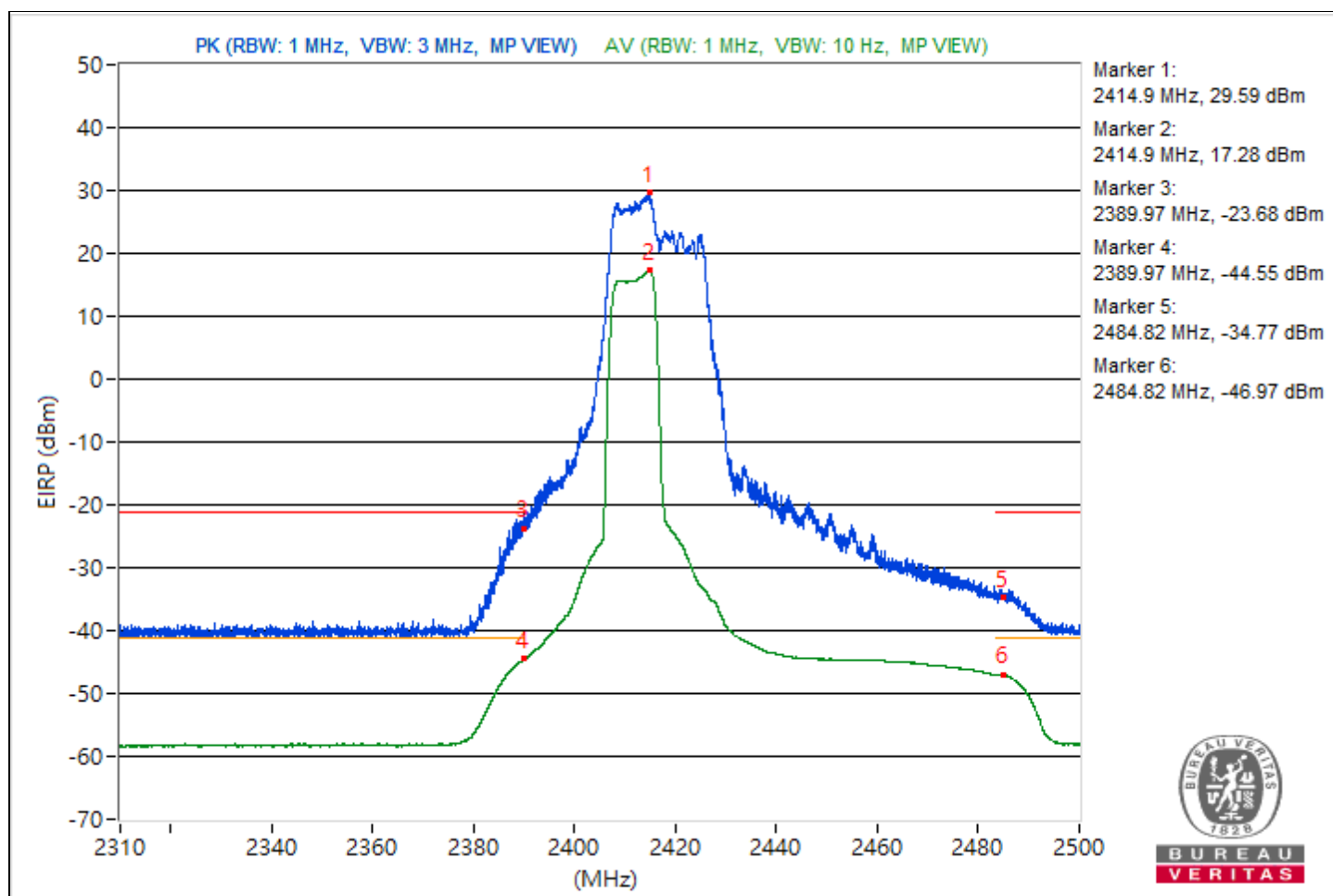


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 2 : 2417 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2414.9	124.85 PK			19.45	20.55	6.54	29.59
2	*2414.9	112.54 AV			7.45	7.99	6.54	17.28
3	2389.97	71.58 PK	74	-2.42	-37.95	-31.03	6.54	-23.68
4	2389.97	50.71 AV	54	-3.29	-54.54	-53.71	6.54	-44.55
5	2484.82	60.49 PK	74	-13.51	-43.98	-44.69	6.54	-34.77
6	2484.82	48.29 AV	54	-5.71	-55.9	-57.24	6.54	-46.97

Notes:

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

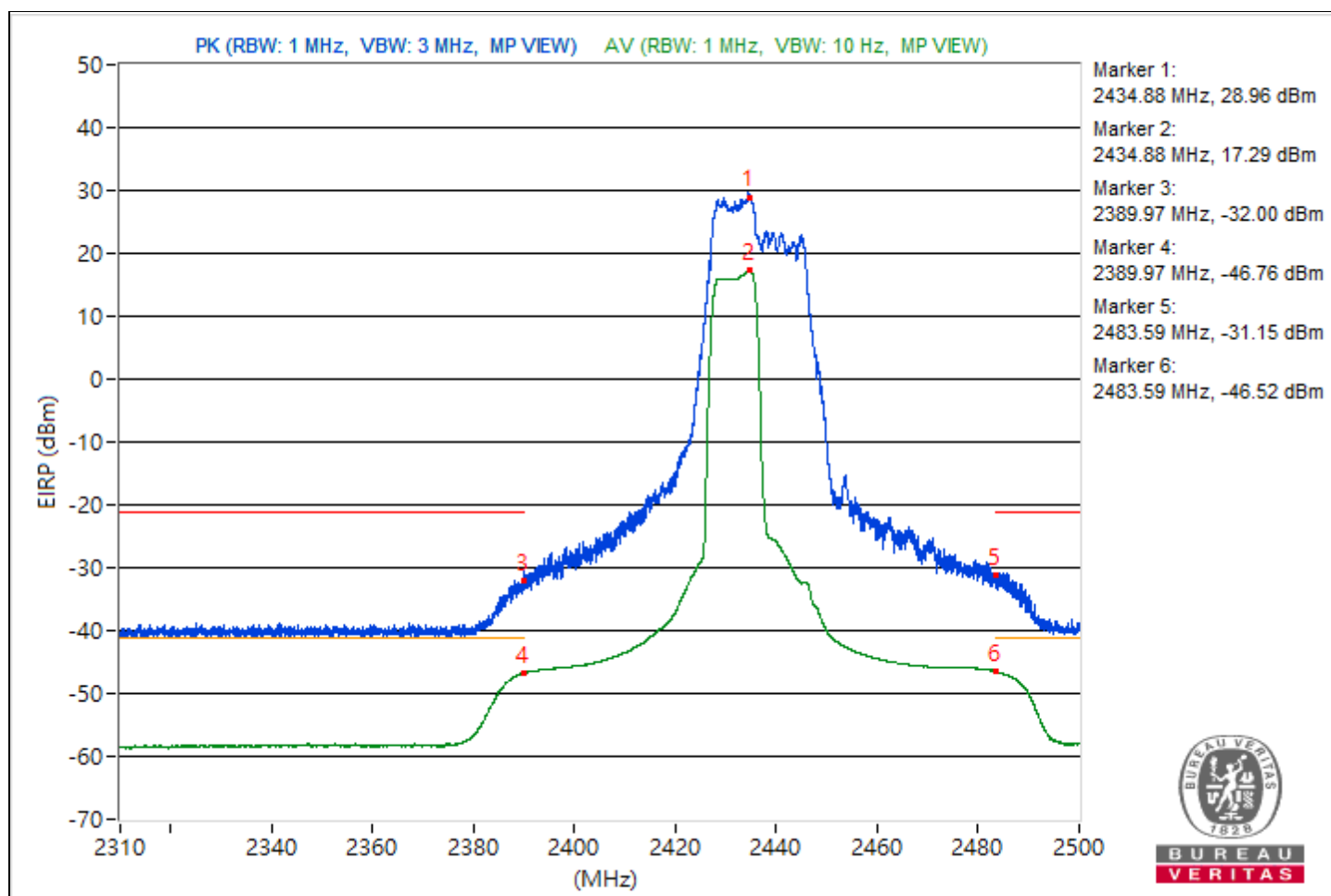


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2434.88	124.22 PK			19.65	19.17	6.54	28.96
2	*2434.88	112.55 AV			7.76	7.72	6.54	17.29
3	2389.97	63.26 PK	74	-10.74	-40.75	-42.54	6.54	-32
4	2389.97	48.5 AV	54	-5.5	-56.36	-56.25	6.54	-46.76
5	2483.59	64.11 PK	74	-9.89	-38.63	-44.81	6.54	-31.15
6	2483.59	48.74 AV	54	-5.26	-55.62	-56.56	6.54	-46.52

Notes:

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

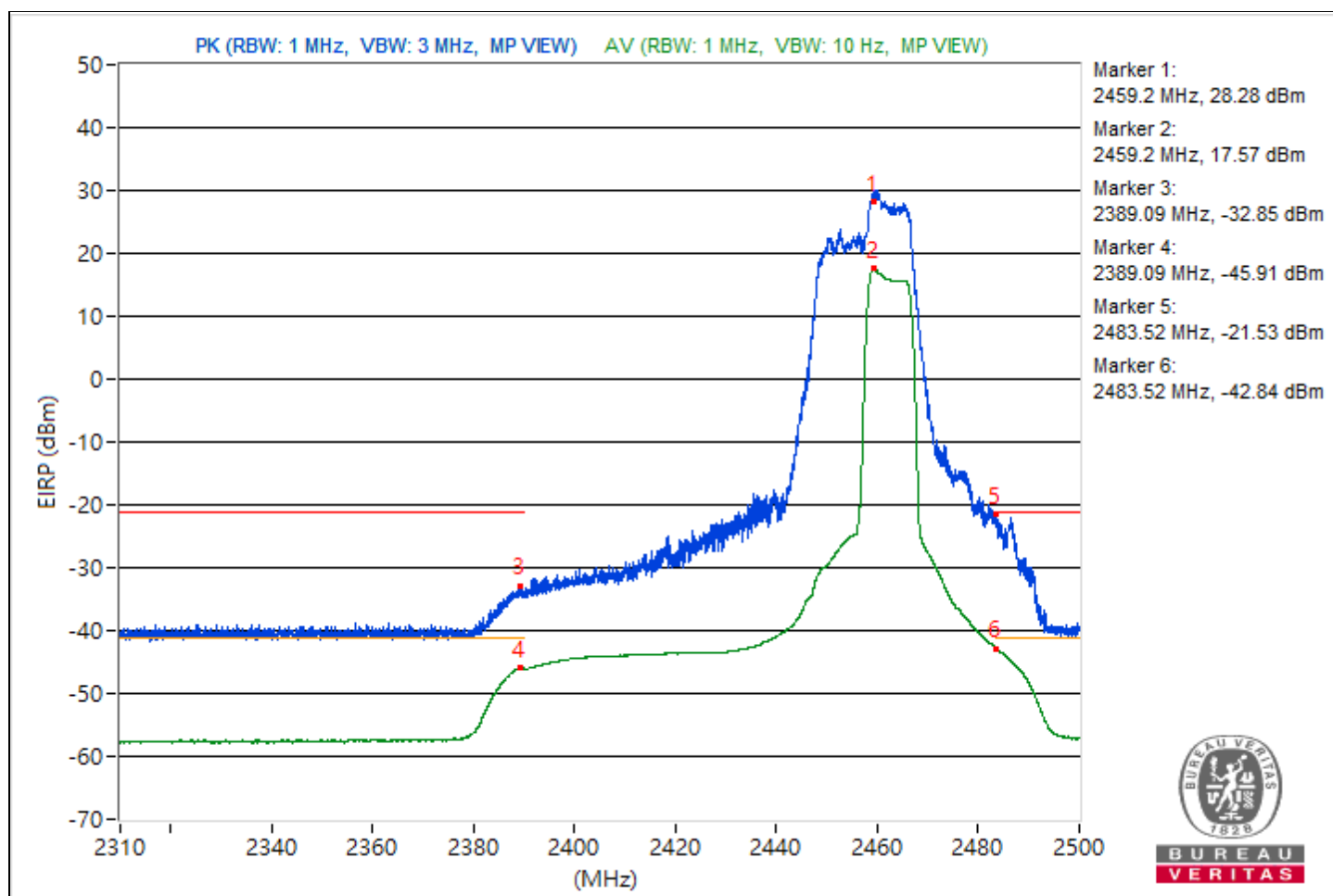


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 10 : 2457 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2459.2	123.54 PK			17.97	19.37	6.54	28.28
2	*2459.2	112.83 AV			7.65	8.36	6.54	17.57
3	2389.09	62.41 PK	74	-11.59	-42.01	-42.82	6.54	-32.85
4	2389.09	49.35 AV	54	-4.65	-55.79	-55.15	6.54	-45.91
5	2483.52	73.73 PK	74	-0.27	-32.24	-30.16	6.54	-21.53
6	2483.52	52.42 AV	54	-1.58	-53.31	-51.63	6.54	-42.84

Notes:

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

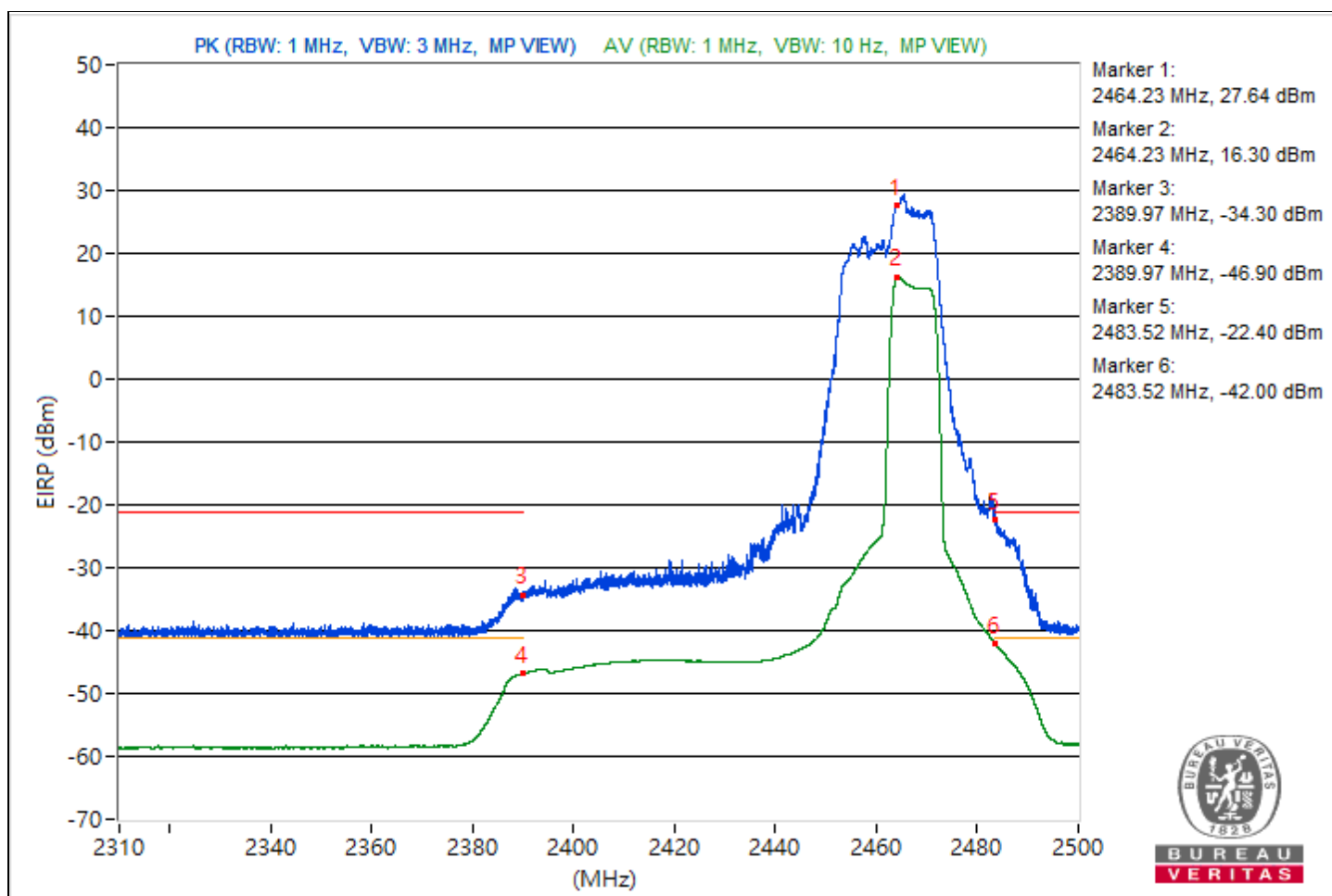


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2464.23	122.9 PK			18.08	18.1	6.54	27.64
2	*2464.23	111.56 AV			7.05	6.43	6.54	16.3
3	2389.97	60.96 PK	74	-13.04	-43.63	-44.07	6.54	-34.3
4	2389.97	48.36 AV	54	-5.64	-57.19	-55.81	6.54	-46.9
5	2483.52	72.86 PK	74	-1.14	-31.75	-32.16	6.54	-22.4
6	2483.52	53.26 AV	54	-0.74	-51.8	-51.31	6.54	-42

Notes:

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

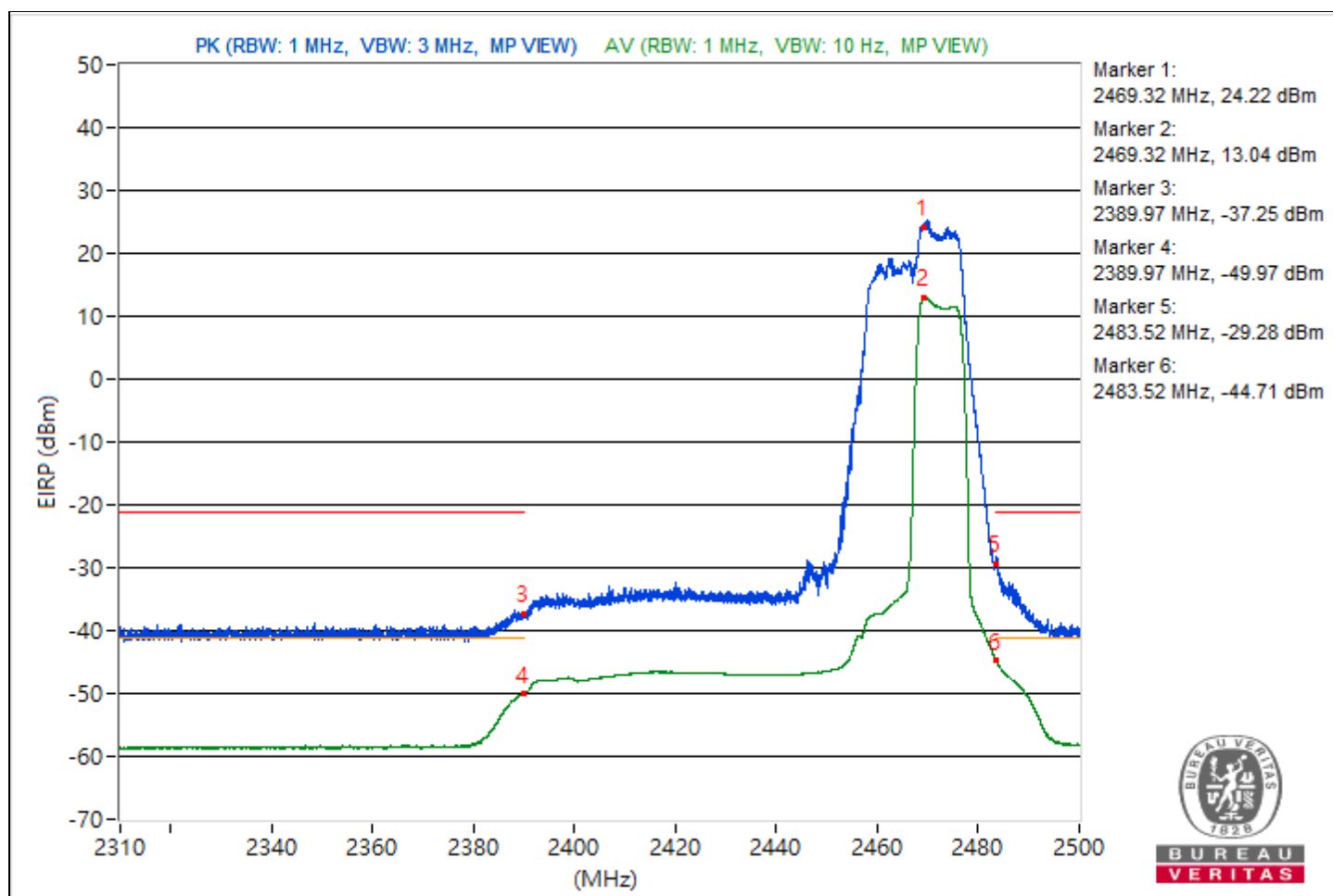


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2469.32	119.48 PK			14.45	14.87	6.54	24.22
2	*2469.32	108.3 AV			3.26	3.7	6.54	13.04
3	2389.97	58.01 PK	74	-15.99	-47.62	-46.11	6.54	-37.25
4	2389.97	45.29 AV	54	-8.71	-60.35	-58.82	6.54	-49.97
5	2483.52	65.98 PK	74	-8.02	-37.99	-39.87	6.54	-29.28
6	2483.52	50.55 AV	54	-3.45	-54.08	-54.45	6.54	-44.71

Notes:

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

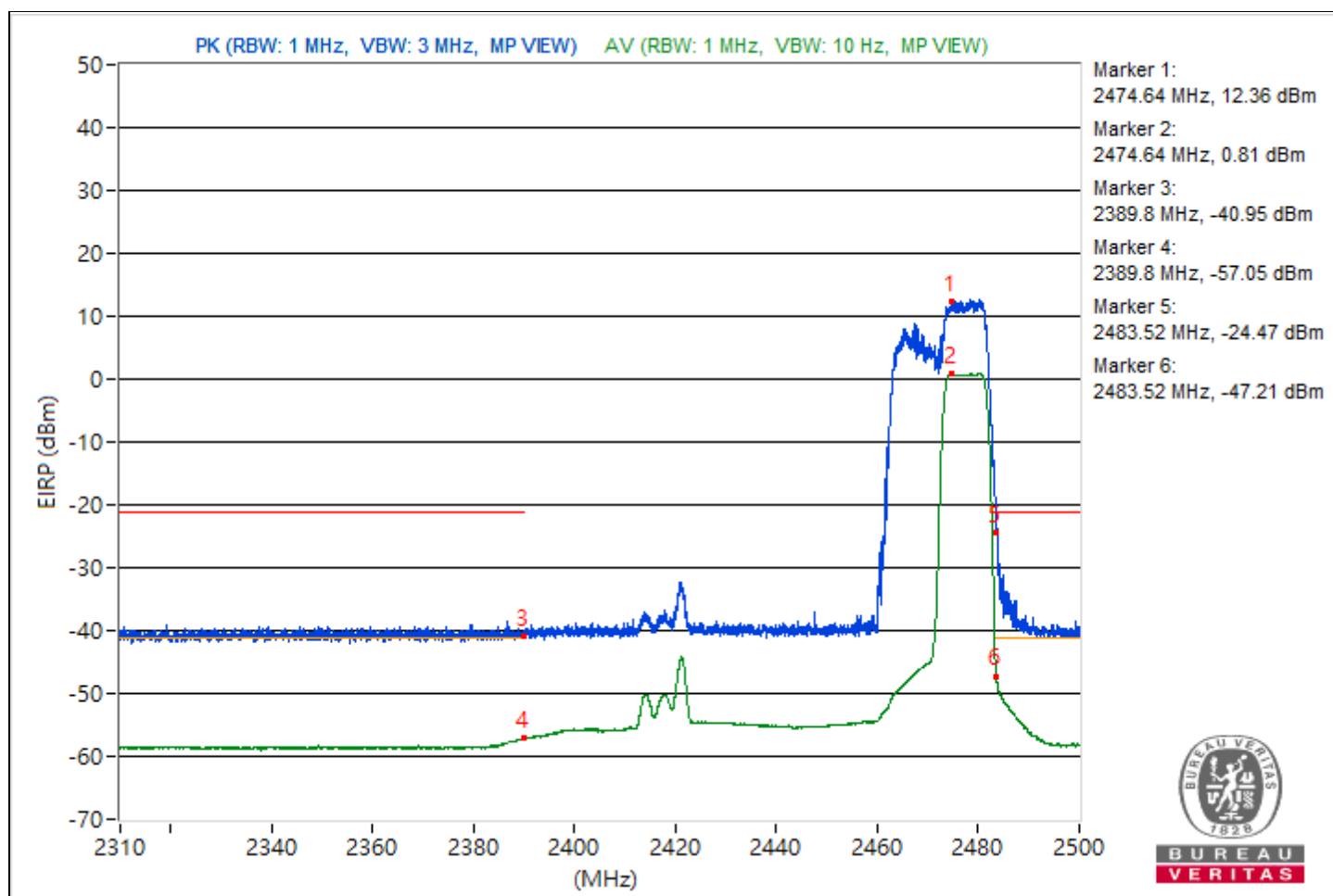


RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Environmental Conditions	25°C, 60% RH
Tested By	Dolly Chung		

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	*2474.64	107.62 PK			5.5	-5.69	6.54	12.36
2	*2474.64	96.07 AV			-6.04	-17.44	6.54	0.81
3	2389.8	54.31 PK	74	-19.69	-51.5	-49.69	6.54	-40.95
4	2389.8	38.21 AV	54	-15.79	-66.4	-66.82	6.54	-57.05
5	2483.52	70.79 PK	74	-3.21	-32.03	-37.81	6.54	-24.47
6	2483.52	48.05 AV	54	-5.95	-54.88	-60.17	6.54	-47.21

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) 26-tone RU	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	43.5 PK	74.0	-30.5	1.24 H	130	39.0	4.5
2	4914.00	34.7 AV	54.0	-19.3	1.24 H	130	30.2	4.5
3	7371.00	59.1 PK	74.0	-14.9	1.26 H	76	48.1	11.0
4	7371.00	44.3 AV	54.0	-9.7	1.26 H	76	33.3	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	41.8 PK	74.0	-32.2	2.54 V	125	37.3	4.5
2	4914.00	33.1 AV	54.0	-20.9	2.54 V	125	28.6	4.5
3	7371.00	60.6 PK	74.0	-13.4	3.62 V	117	49.6	11.0
4	7371.00	45.6 AV	54.0	-8.4	3.62 V	117	34.6	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) 106-tone RU	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	43.7 PK	74.0	-30.3	1.24 H	135	39.4	4.3
2	4824.00	34.8 AV	54.0	-19.2	1.24 H	135	30.5	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	41.8 PK	74.0	-32.2	2.52 V	124	37.5	4.3
2	4824.00	32.7 AV	54.0	-21.3	2.52 V	124	28.4	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) 106-tone RU	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	43.6 PK	74.0	-30.4	1.25 H	130	39.3	4.3
2	4834.00	34.7 AV	54.0	-19.3	1.25 H	130	30.4	4.3
3	7251.00	59.6 PK	74.0	-14.4	1.13 H	84	48.5	11.1
4	7251.00	44.8 AV	54.0	-9.2	1.13 H	84	33.7	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	41.5 PK	74.0	-32.5	2.48 V	125	37.2	4.3
2	4834.00	32.4 AV	54.0	-21.6	2.48 V	125	28.1	4.3
3	7251.00	60.9 PK	74.0	-13.1	3.52 V	127	49.8	11.1
4	7251.00	45.9 AV	54.0	-8.1	3.52 V	127	34.8	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) 106-tone RU	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	43.5 PK	74.0	-30.5	1.27 H	121	39.1	4.4
2	4874.00	34.5 AV	54.0	-19.5	1.27 H	121	30.1	4.4
3	7311.00	59.4 PK	74.0	-14.6	1.18 H	69	48.5	10.9
4	7311.00	44.5 AV	54.0	-9.5	1.18 H	69	33.6	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	41.4 PK	74.0	-32.6	2.49 V	140	37.0	4.4
2	4874.00	32.3 AV	54.0	-21.7	2.49 V	140	27.9	4.4
3	7311.00	60.6 PK	74.0	-13.4	3.53 V	126	49.7	10.9
4	7311.00	45.7 AV	54.0	-8.3	3.53 V	126	34.8	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) 106-tone RU	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	43.2 PK	74.0	-30.8	1.25 H	129	38.7	4.5
2	4914.00	34.3 AV	54.0	-19.7	1.25 H	129	29.8	4.5
3	7371.00	59.3 PK	74.0	-14.7	1.23 H	63	48.3	11.0
4	7371.00	44.6 AV	54.0	-9.4	1.23 H	63	33.6	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	41.6 PK	74.0	-32.4	2.54 V	128	37.1	4.5
2	4914.00	32.7 AV	54.0	-21.3	2.54 V	128	28.2	4.5
3	7371.00	60.6 PK	74.0	-13.4	3.57 V	116	49.6	11.0
4	7371.00	45.5 AV	54.0	-8.5	3.57 V	116	34.5	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) 106-tone RU	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	43.1 PK	74.0	-30.9	1.25 H	106	38.6	4.5
2	4924.00	34.1 AV	54.0	-19.9	1.25 H	106	29.6	4.5
3	7386.00	60.1 PK	74.0	-13.9	1.13 H	82	48.9	11.2
4	7386.00	44.9 AV	54.0	-9.1	1.13 H	82	33.7	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	41.4 PK	74.0	-32.6	2.54 V	155	36.9	4.5
2	4924.00	32.5 AV	54.0	-21.5	2.54 V	155	28.0	4.5
3	7386.00	60.8 PK	74.0	-13.2	3.53 V	128	49.6	11.2
4	7386.00	45.6 AV	54.0	-8.4	3.53 V	128	34.4	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.

RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 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	4934.00	43.4 PK	74.0	-30.6	1.30 H	128	38.9	4.5
2	4934.00	34.3 AV	54.0	-19.7	1.30 H	128	29.8	4.5
3	7401.00	59.3 PK	74.0	-14.7	1.27 H	52	48.0	11.3
4	7401.00	44.6 AV	54.0	-9.4	1.27 H	52	33.3	11.3
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	4934.00	41.4 PK	74.0	-32.6	2.45 V	124	36.9	4.5
2	4934.00	32.3 AV	54.0	-21.7	2.45 V	124	27.8	4.5
3	7401.00	60.6 PK	74.0	-13.4	3.47 V	118	49.3	11.3
4	7401.00	45.7 AV	54.0	-8.3	3.47 V	118	34.4	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.

RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 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	4944.00	43.1 PK	74.0	-30.9	1.26 H	129	38.6	4.5
2	4944.00	34.1 AV	54.0	-19.9	1.26 H	129	29.6	4.5
3	7416.00	59.3 PK	74.0	-14.7	1.19 H	66	47.9	11.4
4	7416.00	44.8 AV	54.0	-9.2	1.19 H	66	33.4	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4944.00	41.2 PK	74.0	-32.8	2.40 V	119	36.7	4.5
2	4944.00	32.2 AV	54.0	-21.8	2.40 V	119	27.7	4.5
3	7416.00	60.6 PK	74.0	-13.4	3.51 V	120	49.2	11.4
4	7416.00	45.5 AV	54.0	-8.5	3.51 V	120	34.1	11.4

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.

2Tx

RF Mode	802.11be (EHT20) 26-tone RU	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	44.6 PK	74.0	-29.4	1.21 H	145	40.1	4.5
2	4914.00	35.1 AV	54.0	-18.9	1.21 H	145	30.6	4.5
3	7371.00	59.8 PK	74.0	-14.2	1.30 H	80	48.8	11.0
4	7371.00	44.7 AV	54.0	-9.3	1.30 H	80	33.7	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	42.3 PK	74.0	-31.7	2.49 V	119	37.8	4.5
2	4914.00	33.6 AV	54.0	-20.4	2.49 V	119	29.1	4.5
3	7371.00	61.2 PK	74.0	-12.8	3.60 V	117	50.2	11.0
4	7371.00	45.9 AV	54.0	-8.1	3.60 V	117	34.9	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) 106-tone RU	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	44.3 PK	74.0	-29.7	1.16 H	142	40.0	4.3
2	4824.00	34.7 AV	54.0	-19.3	1.16 H	142	30.4	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	41.7 PK	74.0	-32.3	2.53 V	123	37.4	4.3
2	4824.00	33.2 AV	54.0	-20.8	2.53 V	123	28.9	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) 106-tone RU	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	44.3 PK	74.0	-29.7	1.16 H	130	40.0	4.3
2	4834.00	34.8 AV	54.0	-19.2	1.16 H	130	30.5	4.3
3	7251.00	59.7 PK	74.0	-14.3	1.29 H	67	48.6	11.1
4	7251.00	44.8 AV	54.0	-9.2	1.29 H	67	33.7	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	42.6 PK	74.0	-31.4	2.53 V	119	38.3	4.3
2	4834.00	34.0 AV	54.0	-20.0	2.53 V	119	29.7	4.3
3	7251.00	61.3 PK	74.0	-12.7	3.59 V	121	50.2	11.1
4	7251.00	45.7 AV	54.0	-8.3	3.59 V	121	34.6	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) 106-tone RU	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	44.4 PK	74.0	-29.6	1.12 H	137	40.0	4.4
2	4874.00	35.2 AV	54.0	-18.8	1.12 H	137	30.8	4.4
3	7311.00	60.4 PK	74.0	-13.6	1.30 H	71	49.5	10.9
4	7311.00	45.2 AV	54.0	-8.8	1.30 H	71	34.3	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	42.2 PK	74.0	-31.8	2.54 V	134	37.8	4.4
2	4874.00	33.9 AV	54.0	-20.1	2.54 V	134	29.5	4.4
3	7311.00	61.2 PK	74.0	-12.8	3.61 V	107	50.3	10.9
4	7311.00	45.4 AV	54.0	-8.6	3.61 V	107	34.5	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) 106-tone RU	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	44.8 PK	74.0	-29.2	1.10 H	141	40.3	4.5
2	4914.00	35.4 AV	54.0	-18.6	1.10 H	141	30.9	4.5
3	7371.00	60.2 PK	74.0	-13.8	1.28 H	67	49.2	11.0
4	7371.00	45.2 AV	54.0	-8.8	1.28 H	67	34.2	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	42.2 PK	74.0	-31.8	2.53 V	121	37.7	4.5
2	4914.00	33.8 AV	54.0	-20.2	2.53 V	121	29.3	4.5
3	7371.00	61.7 PK	74.0	-12.3	3.62 V	109	50.7	11.0
4	7371.00	45.8 AV	54.0	-8.2	3.62 V	109	34.8	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) 106-tone RU	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	44.5 PK	74.0	-29.5	1.09 H	126	40.0	4.5
2	4924.00	35.3 AV	54.0	-18.7	1.09 H	126	30.8	4.5
3	7386.00	60.6 PK	74.0	-13.4	1.27 H	72	49.4	11.2
4	7386.00	45.6 AV	54.0	-8.4	1.27 H	72	34.4	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	42.9 PK	74.0	-31.1	2.50 V	110	38.4	4.5
2	4924.00	34.1 AV	54.0	-19.9	2.50 V	110	29.6	4.5
3	7386.00	61.4 PK	74.0	-12.6	3.65 V	130	50.2	11.2
4	7386.00	45.6 AV	54.0	-8.4	3.65 V	130	34.4	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.

RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 12 : 2467 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	4934.00	43.1 PK	74.0	-30.9	1.30 H	123	38.6	4.5
2	4934.00	34.3 AV	54.0	-19.7	1.30 H	123	29.8	4.5
3	7401.00	59.2 PK	74.0	-14.8	1.21 H	44	47.9	11.3
4	7401.00	44.6 AV	54.0	-9.4	1.21 H	44	33.3	11.3
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	4934.00	42.1 PK	74.0	-31.9	2.57 V	137	37.6	4.5
2	4934.00	34.1 AV	54.0	-19.9	2.57 V	137	29.6	4.5
3	7401.00	60.9 PK	74.0	-13.1	3.58 V	101	49.6	11.3
4	7401.00	45.1 AV	54.0	-8.9	3.58 V	101	33.8	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.

RF Mode	802.11be (EHT20) 106-tone RU	Channel	CH 13 : 2472 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	4944.00	42.5 PK	74.0	-31.5	1.27 H	128	38.0	4.5
2	4944.00	33.8 AV	54.0	-20.2	1.27 H	128	29.3	4.5
3	7416.00	59.5 PK	74.0	-14.5	1.24 H	61	48.1	11.4
4	7416.00	45.1 AV	54.0	-8.9	1.24 H	61	33.7	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4944.00	41.3 PK	74.0	-32.7	2.41 V	112	36.8	4.5
2	4944.00	32.1 AV	54.0	-21.9	2.41 V	112	27.6	4.5
3	7416.00	60.3 PK	74.0	-13.7	3.52 V	127	48.9	11.4
4	7416.00	45.3 AV	54.0	-8.7	3.52 V	127	33.9	11.4

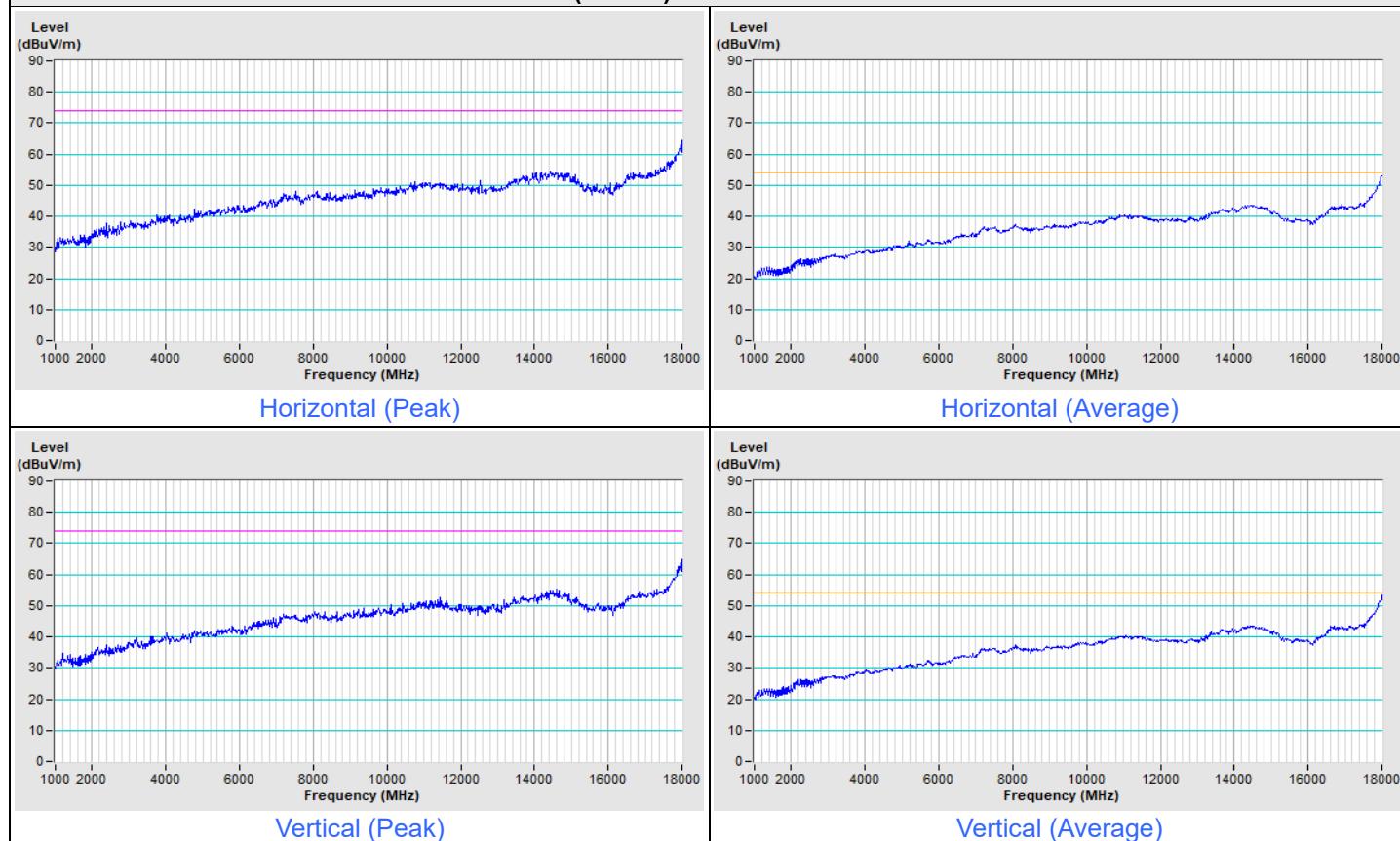
Remarks:

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.

Plot of Other Emission 1Tx

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT20) 106-tone RU Channel 2



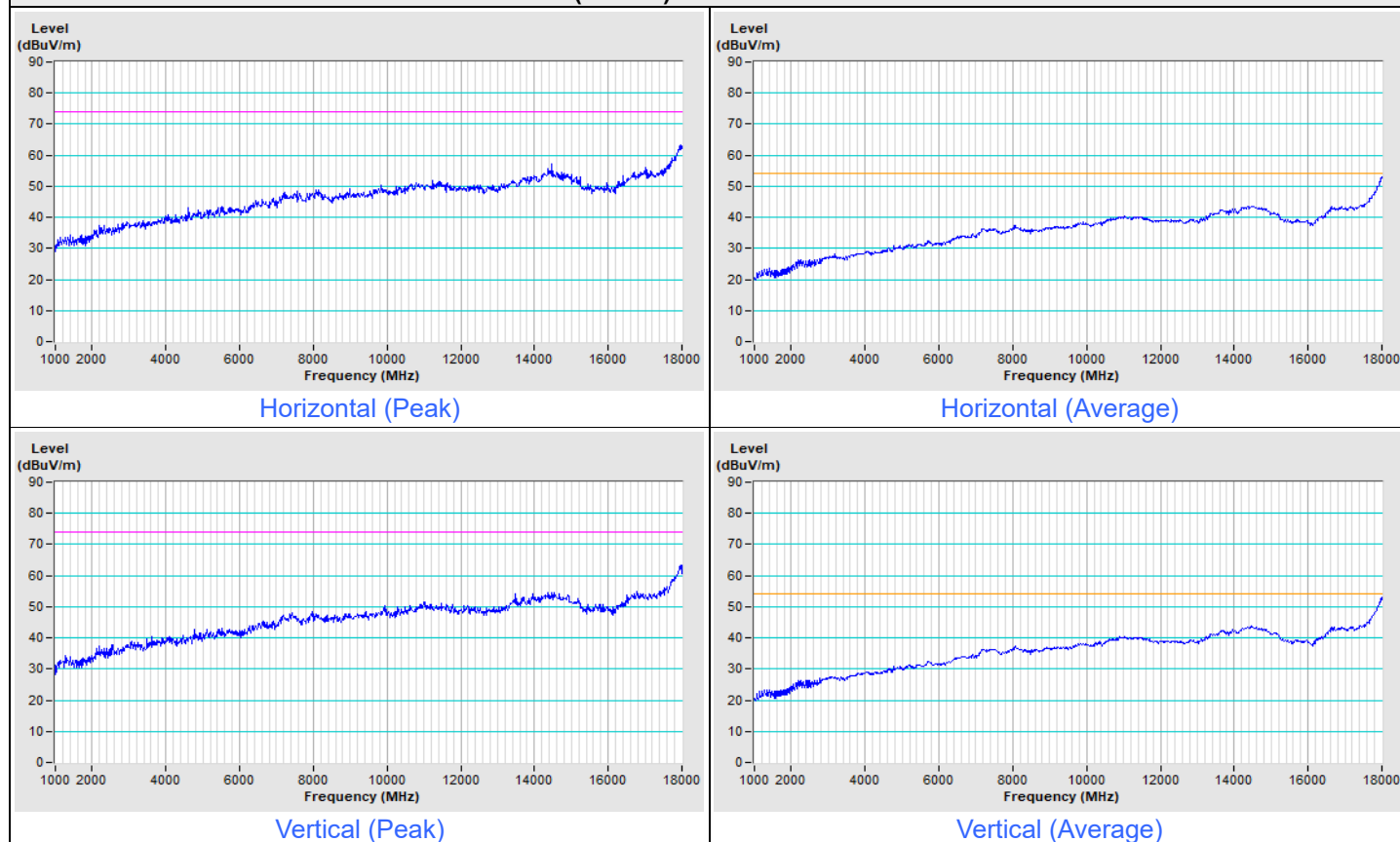
Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

2Tx

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT20) 26-tone RU Channel 10



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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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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