

# TEST REPORT

## CERTIFICATE OF CONFORMITY

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

**Report No.:** RFBARR-WTW-P23040352

**FCC ID:** RAS-MT7925B22M

**Product:** 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

**Brand:** MediaTek

**Model No.:** MT7925B22M

**Received Date:** 2023/4/17

**Test Date:** 2023/5/10 ~ 2023/7/10

**Issued Date:** 2023/7/24

**Applicant:** MediaTek Inc.

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

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**FCC Registration /** 788550 / TW0003

**Designation Number:**

**Approved by:** Jeremy Lin, **Date:** 2023/7/24  
Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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## Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P23040352	Original Release	2023/7/24

## 1 Certificate

**Product:** 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

**Brand:** MediaTek

**Test Model:** MT7925B22M

**Sample Status:** Engineering sample

**Applicant:** MediaTek Inc.

**Test Date:** 2023/5/10 ~ 2023/7/10

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

**Measurement** ANSI C63.10-2013

**procedure:** KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

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

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -14.18 dB at 0.57000 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -0.02 dB at 31.81 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 4923.43 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex (MHF) / R-SMA / RP SMA PLUG / IPEX not a standard connector.

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

### 2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

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

### 2.2 Supplementary Information

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

### 3 General Information

#### 3.1 General Description

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B22M
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 11Mbps 802.11g: up to 54Mbps 802.11n: up to 300Mbps VHT: up to 400Mbps 802.11ax: up to 573.5Mbps 802.11be: up to 688.2Mbps
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	1TX: 263.633 mW (24.21 dBm) 2TX: 400.635 mW (26.03 dBm)

Note:

1. The EUT has two SKU are listed as below table.

Item	Different
SKU 1	DVDDIO 3.3V, power from platform.
SKU 2	DVDDIO 1.8V, power from IC PMU. (Power Management Unit).

\*SKU 1 was chosen as a representative test.

2. There are Bluetooth and WLAN (2.4GHz & 5GHz & 6GHz) technology used for the EUT.

3. The EUT support RU mode is listed as below.

BW	52+26	106+26
20MHz	v	v
40MHz	v	v

4. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz (1TX)	WLAN 5GHz (1TX)
2	WLAN 2.4GHz (1TX)	WLAN 5.9GHz (1TX)
3	WLAN 2.4GHz (1TX)	WLAN 6GHz (1TX)
4	WLAN 5GHz (1TX)	WLAN 6GHz (1TX)
5	WLAN 5GHz (2TX)	Bluetooth
6	WLAN 5.9GHz (2TX)	Bluetooth
7	WLAN 6GHz (2TX)	Bluetooth

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

5. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.4)

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

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range	Antenna Type	Connector Type
1	Chain0	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 GHz 5.15~5.85 GHz	PIFA	i-pex (MHF)
	Chain1	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 GHz 5.15~5.85 GHz	PIFA	i-pex (MHF)
2	Chain0	PSA	RFMTA311020EMM B301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 GHz 5.15~5.85 GHz 5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	PIFA	i-pex (MHF)
	Chain1	PSA	RFMTA311020EMM B301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 GHz 5.15~5.85 GHz 5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	PIFA	i-pex (MHF)
3	Chain0	PSA	RFMTA421230IMM B701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	PIFA	i-pex (MHF)
	Chain1	PSA	RFMTA421230IMM B701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	PIFA	i-pex (MHF)
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 GHz 5.15~5.85 GHz	Dipole	R-SMA
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 GHz 5.15~5.85 GHz	Dipole	R-SMA
5	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 GHz 5.15~5.895 GHz 5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	Dipole	RP SMA PLUG
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 GHz 5.15~5.895 GHz 5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	Dipole	RP SMA PLUG
6	Chain0	PSA	RFPCA460632IMM B701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	Dipole	IPEX
	Chain1	PSA	RFPCA460632IMM B701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 GHz 6.425~6.525 GHz 6.525~6.875 GHz 6.875~7.125 GHz	Dipole	IPEX

Note:

1. For PIFA antennas, Antenna No. 1 was chosen for the final test.
2. For Dipole antennas, Antenna No. 4 was chosen for the final test.

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

\* For 1TX diversity configuration, transmit chain 0 and chain 1 have been evaluated, the chain 1 was the worst case and chosen for representative test.



2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1TX/2TX	1RX/2RX
802.11g	1TX/2TX	1RX/2RX
802.11n (HT20)	1TX/2TX	1RX/2RX
802.11n (HT40)	1TX/2TX	1RX/2RX
VHT20	1TX/2TX	1RX/2RX
VHT40	1TX/2TX	1RX/2RX
802.11ax (HE20)	1TX/2TX	1RX/2RX
802.11ax (HE40)	1TX/2TX	1RX/2RX
802.11be (EHT20)	1TX/2TX	1RX/2RX
802.11be (EHT40)	1TX/2TX	1RX/2RX
802.11ax (RU26/52/106)	1TX/2TX	1RX/2RX
802.11be (RU26/52/106/52+26/106+26)	1TX/2TX	1RX/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 manufacturer will control the power for 802.11n/VHT/ax mode is same as the 802.11be mode or more lower than it and investigated worst case to representative mode in test report.

### 3.3 Channel List

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

EUT Configure Mode:	Mode A: EUT only (w/o antenna)
	Mode B: EUT with 50 ohm terminator

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	RU/MRU Index
RF Output Power	A	802.11b	1T / 2T	1, 6, 11, 12, 13	DBPSK	1Mb/s	N/A
		802.11g	1T / 2T	1, 6, 11, 12, 13	BPSK	6Mb/s	N/A
		VHT20	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		VHT40	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
		802.11ax (HE20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		802.11ax (HE40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	1, 1, 2, 2, 2
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	1, 1, 3, 3, 3
Power Spectral Density / 6 dB Bandwidth	A	802.11b	1T / 2T	1, 6, 11, 12, 13	DBPSK	1Mb/s	N/A
		802.11g	1T / 2T	1, 6, 11, 12, 13	BPSK	6Mb/s	N/A
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	1, 1, 2, 2, 2
Conducted Out of Band Emissions	A	802.11b	1T / 2T	1, 6, 11, 12, 13	DBPSK	1Mb/s	N/A
		802.11g	1T / 2T	1, 6, 11, 12, 13	BPSK	6Mb/s	N/A
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
AC Power Conducted Emissions	B	802.11b	1T / 2T	6	DBPSK	1Mb/s	N/A
Unwanted Emissions below 1 GHz	A (Conducted measurement)	802.11b	1T / 2T	6	DBPSK	1Mb/s	N/A
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	6	BPSK	MCS0	0
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	6	BPSK	MCS0	37
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	6	BPSK	MCS0	53
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	6	BPSK	MCS0	1
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	6	BPSK	MCS0	1
	B (Radiated measurement)	802.11b	1T / 2T	6	DBPSK	1Mb/s	N/A
Unwanted Emissions above 1 GHz	A (Conducted measurement), B (Radiated measurement)	802.11b	1T / 2T	1, 6, 11, 12, 13	DBPSK	1Mb/s	N/A
		802.11g	1T / 2T	1, 6, 11, 12, 13	BPSK	6Mb/s	N/A
		802.11be (EHT20)	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	N/A
		802.11be (EHT40)	1S1T / 2S2T	3, 6, 9, 10, 11	BPSK	MCS0	N/A
		802.11be (EHT20) 26-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	0, 0, 8, 8, 8
		802.11be (EHT20) 52-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	37, 37, 40, 40, 40
		802.11be (EHT20) 106-tone RU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	53, 53, 54, 54, 54
		802.11be (EHT20) 52+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	1, 1, 2, 2, 2
		802.11be (EHT20) 106+26-tone MRU	1S1T / 2S2T	1, 6, 11, 12, 13	BPSK	MCS0	1, 1, 3, 3, 3

### 3.5 Duty Cycle of Test Signal

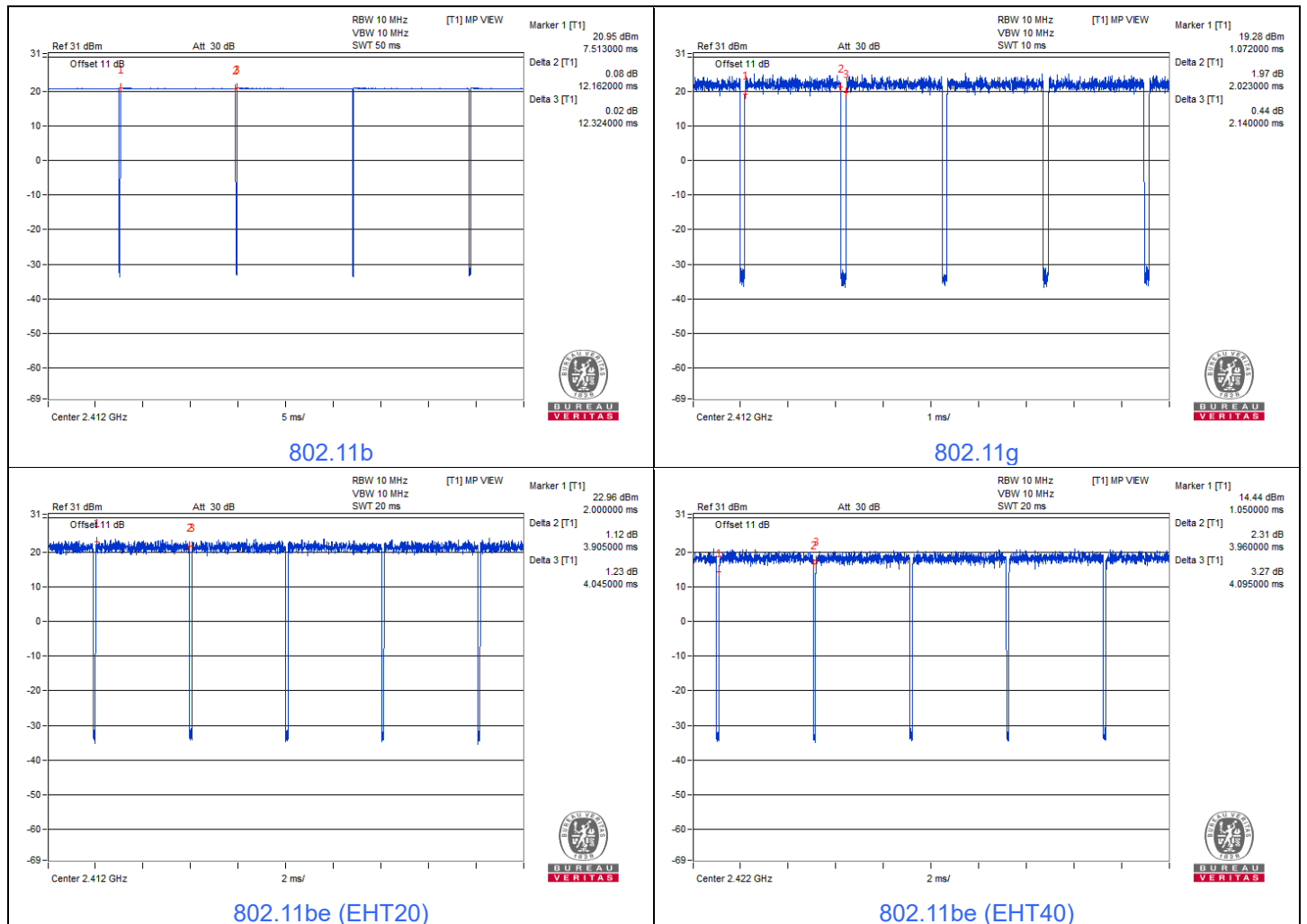
#### 2TX

**802.11b:** Duty cycle = 12.162 ms / 12.324 ms x 100% = 98.7%

**802.11g:** Duty cycle = 2.023 ms / 2.14 ms x 100% = 94.5%, duty factor = 10 \* log (1/Duty cycle) = 0.24 dB

**802.11be (EHT20):** Duty cycle = 3.905 ms / 4.045 ms x 100% = 96.5%, duty factor = 10 \* log (1/Duty cycle) = 0.15 dB

**802.11be (EHT40):** Duty cycle = 3.96 ms / 4.095 ms x 100% = 96.7%, duty factor = 10 \* log (1/Duty cycle) = 0.15 dB

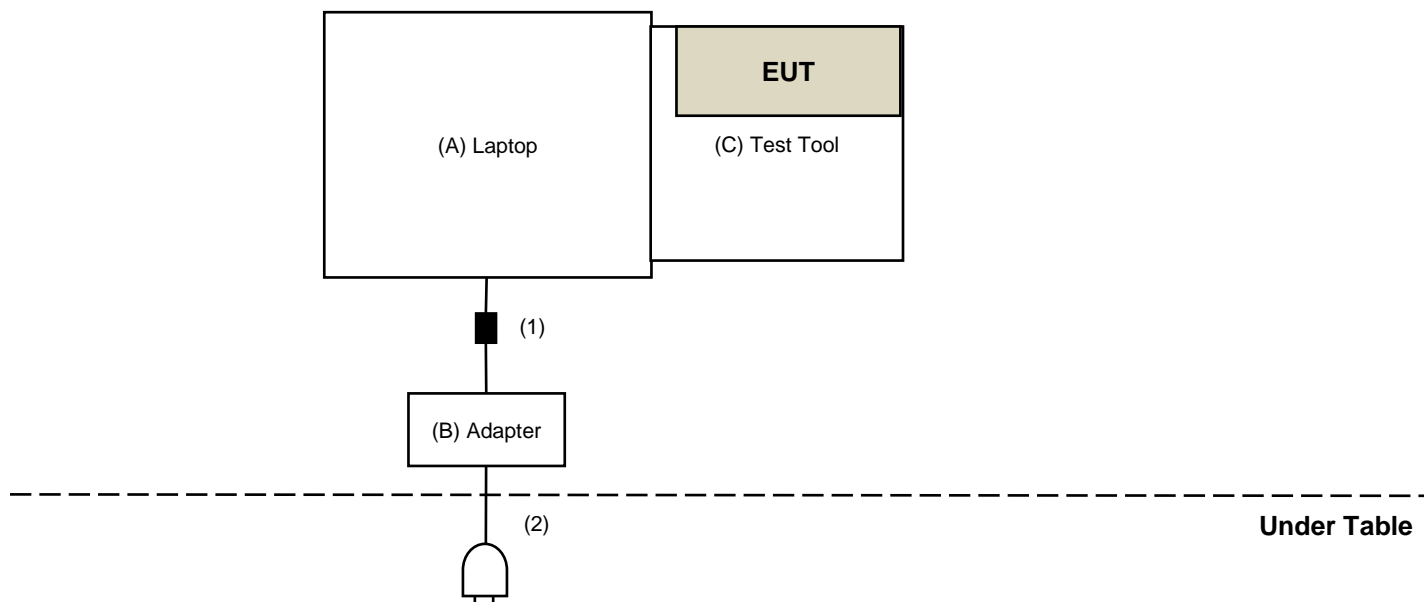


### 3.6 Test Program Used and Operation Descriptions

Controlling software QA Tool 0.0.2.100 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

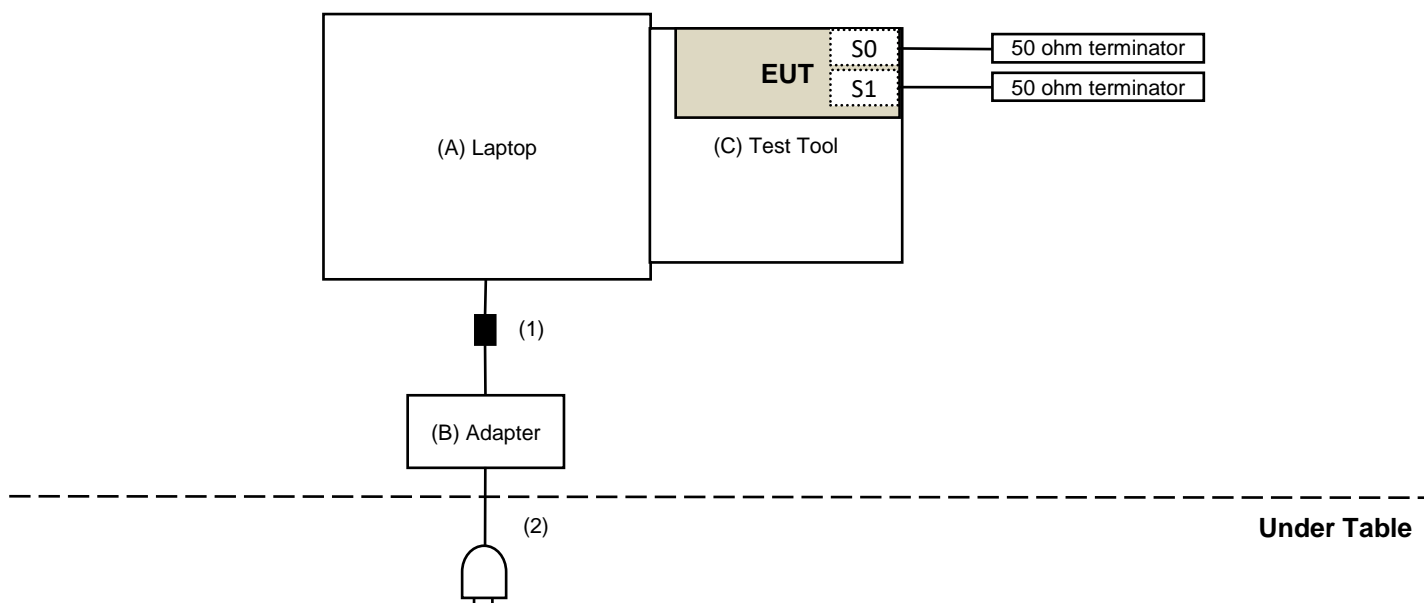
### 3.7 Connection Diagram of EUT and Peripheral Devices

#### Mode A

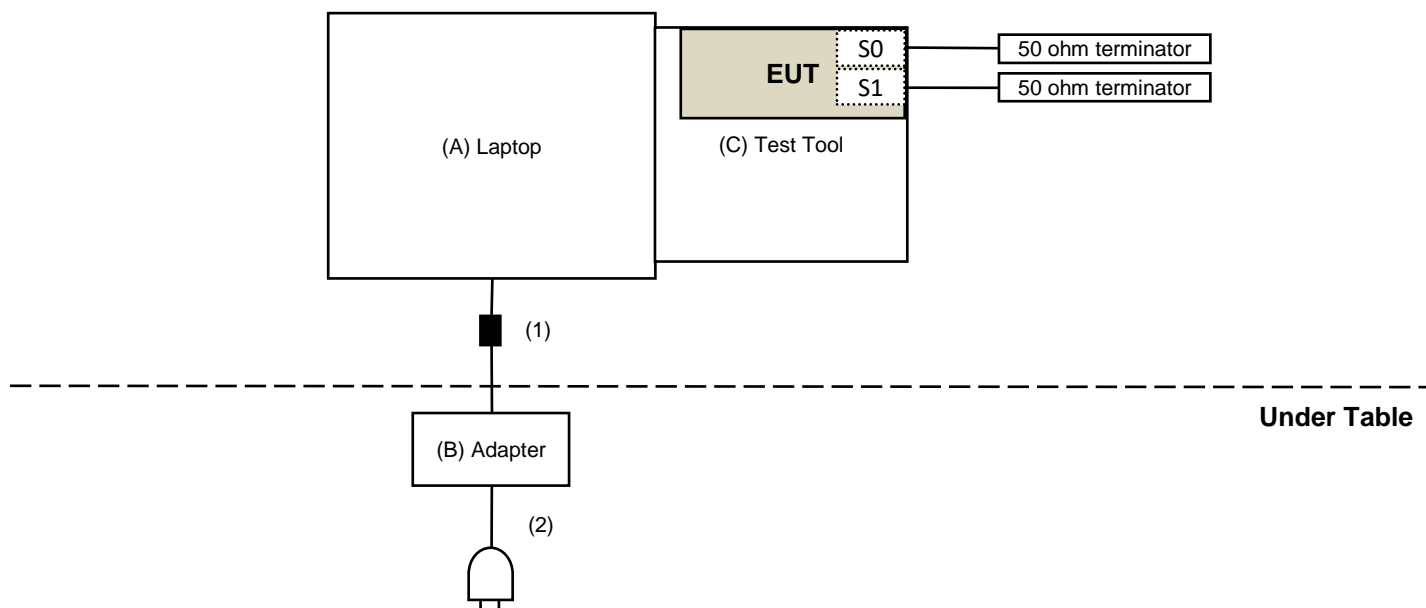


#### Mode B

#### For AC Power Conducted Emission test



### For Unwanted Emission test



### 3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
B	Adapter	DELL	LLA65NS2-01	N/A	N/A	Provided by Lab
C	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab (Brand: Dell, Model: LLA65NS2-01)
2	AC Cable	1	1	No	0	Provided by Lab (Brand: BAOHING, Model: NA)

## 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
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	2022/7/13	2023/7/12

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/7/7

### 4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/7/7

### 4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

### 4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

### 4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EMI Test Receiver R&S	ESCI	100613	2022/12/5	2023/12/4
LISN R&S	ENV216	101826	2023/3/23	2024/3/22
	ESH3-Z5	100311	2022/9/12	2023/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/5/15

#### 4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2022/10/20	2023/10/19
Loop Antenna Electro-Metrics	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier Agilent	8447D	2944A10638	2023/5/7	2024/5/6
Preamplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2023/5/7	2024/5/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/5/15 ~ 2023/7/10



#### 4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2022/11/13	2023/11/12
	BBHA 9170	9170-480	2022/11/13	2023/11/12
		BBHA9170243	2022/11/13	2023/11/12
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter Micro-Tronics	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Preamplifier Agilent	8449B	3008A02367	2023/2/15	2024/2/14
Preamplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
			2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
			2023/7/8	2024/7/7
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/5/10 ~ 2023/7/10

## 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  $\geq 40$  MHz for any  $N_{ANT}$ ;

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

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

### 5.2 Power Spectral Density

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

### 5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

### 5.4 Conducted Out of Band Emissions

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

### 5.5 AC Power Conducted Emissions

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

Notes:

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

## 5.6 Unwanted Emissions below 1 GHz

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

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

Notes:

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

## 5.7 Unwanted Emissions above 1 GHz

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

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

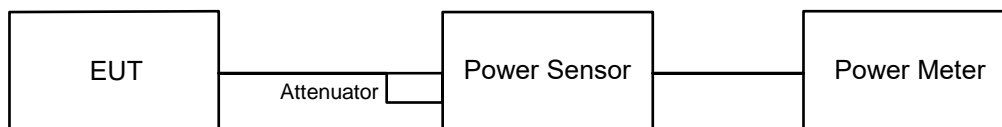
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup



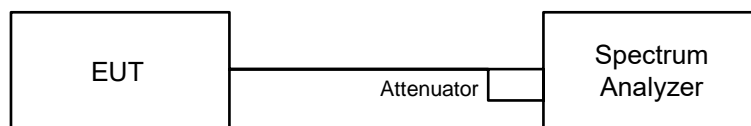
#### 6.1.2 Test Procedure

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 6.2 Power Spectral Density

#### 6.2.1 Test Setup

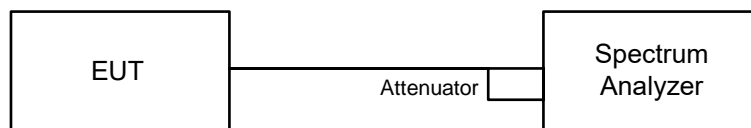


#### 6.2.2 Test Procedure

- a. Measure the duty cycle (x).
- b. Set instrument center frequency to DTS channel center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set RBW to: 3 kHz.
- e. Set VBW  $\geq 3 \times$  RBW.
- f. Detector = power averaging (RMS) or sample detector (when RMS not available).
- g. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
- h. Sweep time = auto couple.
- i. Do not use sweep triggering. Allow sweep to "free run".
- j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k. Use the peak marker function to determine the maximum amplitude level.
- l. Note: If Duty cycle < 98%, Add  $10 \log (1/x)$ , where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

### 6.3 6 dB Bandwidth

#### 6.3.1 Test Setup

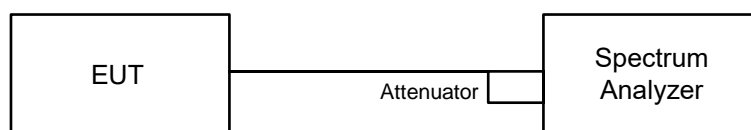


#### 6.3.2 Test Procedure

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

### 6.4 Conducted Out of Band Emissions

#### 6.4.1 Test Setup



#### 6.4.2 Test Procedure

##### MEASUREMENT PROCEDURE REF

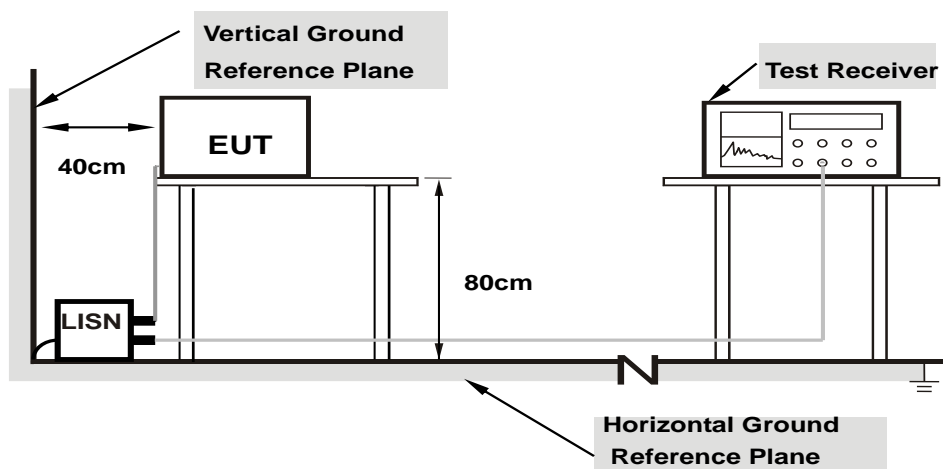
- Set the RBW = 100 kHz.
- Set the VBW  $\geq 300$  kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

##### MEASUREMENT PROCEDURE OOB

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

## 6.5 AC Power Conducted Emissions

### 6.5.1 Test Setup



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

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

### 6.5.2 Test Procedure

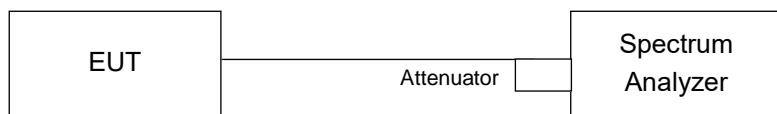
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

## 6.6 Unwanted Emissions below 1 GHz

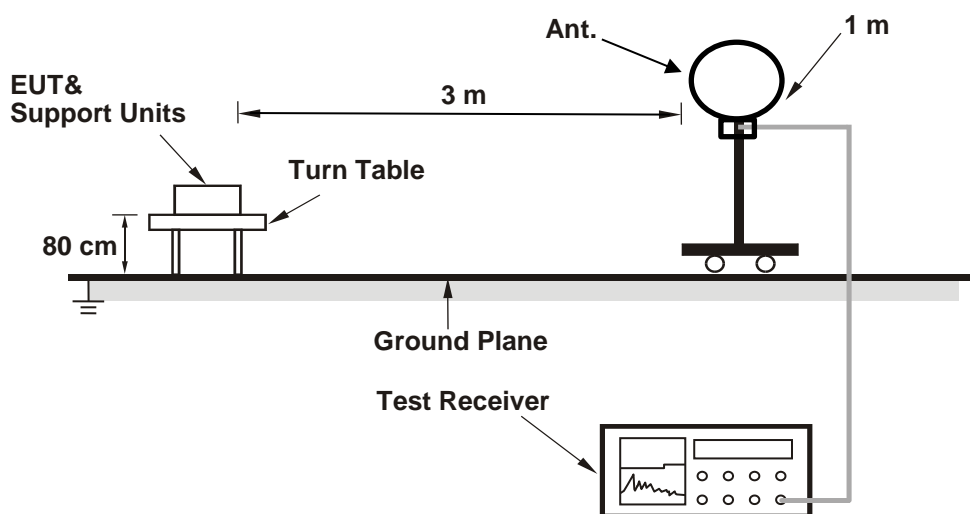
### 6.6.1 Test Setup

For Conducted Configuration:

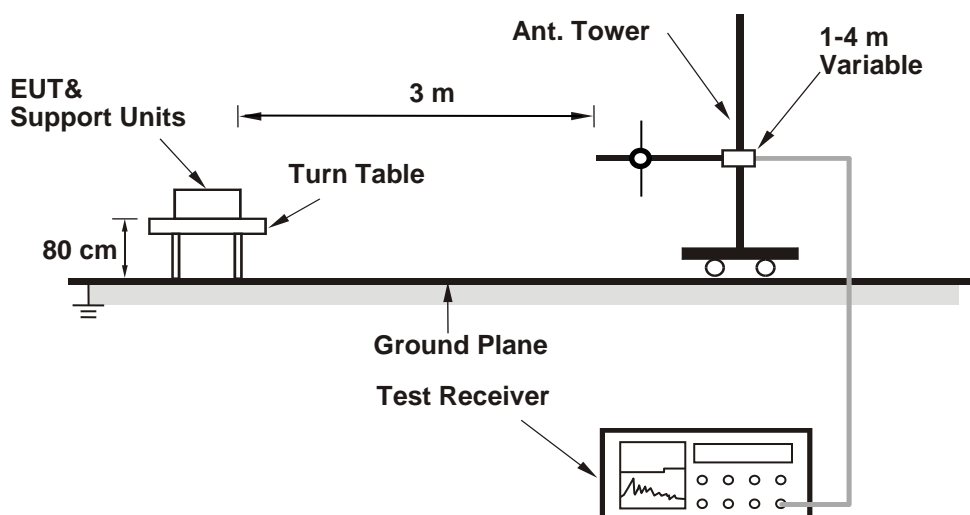


For Radiated Configuration:

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

## 6.6.2 Test Procedure

### 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.
4. KDB 414788 OATS and Chamber Correlation Justification
  - Based on FCC 15.31(f)(2):measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field.
  - OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.



### **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.

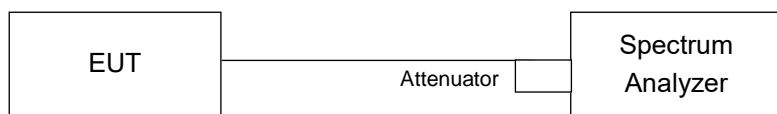
#### **Notes:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

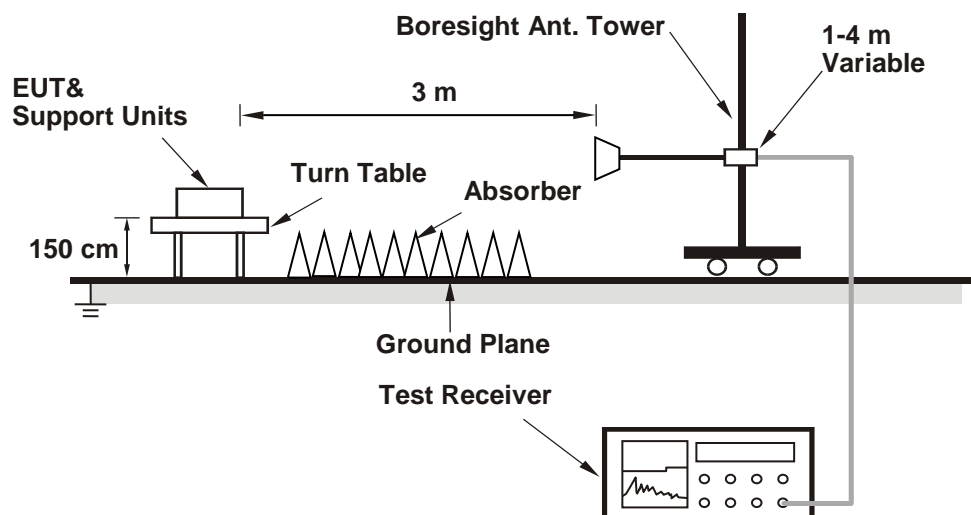
## 6.7 Unwanted Emissions above 1 GHz

### 6.7.1 Test Setup

#### For Conducted Configuration:



#### For Radiated Configuration:



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

## 6.7.2 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
  - e-1. 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.
  - e-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-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. For edge: Integration method
  - (a) For peak emissions measurements:
    1. Set RBW = 100 kHz
    2. Detection = peak.
    3. Max hold.
    4. Perform band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.
  - (b) For average emissions measurements:
    1. Set RBW = 100 kHz.
    2. Perform band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.
4. All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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#### 1TX

##### 802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	214.783	23.32	30	Pass
6	2437	<b>263.633</b>	<b>24.21</b>	30	Pass
11	2462	215.774	23.34	30	Pass
12	2467	108.643	20.36	30	Pass
13	2472	39.994	16.02	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

##### 802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	72.778	18.62	30	Pass
6	2437	166.341	22.21	30	Pass
11	2462	90.573	19.57	30	Pass
12	2467	65.313	18.15	30	Pass
13	2472	46.132	16.64	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

##### VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	66.988	18.26	30	Pass
6	2437	162.555	22.11	30	Pass
11	2462	92.683	19.67	30	Pass
12	2467	67.298	18.28	30	Pass
13	2472	42.954	16.33	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

#### VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	66.834	18.25	30	Pass
6	2437	98.401	19.93	30	Pass
9	2452	65.464	18.16	30	Pass
10	2457	58.076	17.64	30	Pass
11	2462	52.24	17.18	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

#### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.764	18.31	30	Pass
6	2437	164.437	22.16	30	Pass
11	2462	93.541	19.71	30	Pass
12	2467	67.92	18.32	30	Pass
13	2472	43.351	16.37	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

#### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	67.764	18.31	30	Pass
6	2437	99.083	19.96	30	Pass
9	2452	65.766	18.18	30	Pass
10	2457	58.614	17.68	30	Pass
11	2462	52.845	17.23	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	68.077	18.33	30	Pass
6	2437	164.437	22.16	30	Pass
11	2462	86.896	19.39	30	Pass
12	2467	67.92	18.32	30	Pass
13	2472	24.66	13.92	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.92	18.32	30	Pass
6	2437	165.577	22.19	30	Pass
11	2462	93.756	19.72	30	Pass
12	2467	63.387	18.02	30	Pass
13	2472	24.774	13.94	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.764	18.31	30	Pass
6	2437	165.959	22.20	30	Pass
11	2462	76.56	18.84	30	Pass
12	2467	64.565	18.10	30	Pass
13	2472	24.946	13.97	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.298	18.28	30	Pass
6	2437	162.555	22.11	30	Pass
11	2462	92.683	19.67	30	Pass
12	2467	67.92	18.32	30	Pass
13	2472	43.351	16.37	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.764	18.31	30	Pass
6	2437	161.808	22.09	30	Pass
11	2462	80.168	19.04	30	Pass
12	2467	66.834	18.25	30	Pass
13	2472	38.282	15.83	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	68.549	18.36	30	Pass
6	2437	167.109	22.23	30	Pass
11	2462	94.624	19.76	30	Pass
12	2467	69.024	18.39	30	Pass
13	2472	43.853	16.42	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	68.391	18.35	30	Pass
6	2437	100.462	20.02	30	Pass
9	2452	66.527	18.23	30	Pass
10	2457	59.293	17.73	30	Pass
11	2462	53.58	17.29	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

## 2TX

### 802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	21.79	22.35	322.799	25.09	30	Pass
6	2437	22.76	23.26	<b>400.635</b>	<b>26.03</b>	30	Pass
11	2462	21.18	21.73	280.156	24.47	30	Pass
12	2467	14.86	15.34	64.818	18.12	30	Pass
13	2472	10.39	10.85	23.101	13.64	30	Pass

#### Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.16	17.73	111.292	20.46	30	Pass
6	2437	20.34	20.79	228.093	23.58	30	Pass
11	2462	17.19	17.68	110.974	20.45	30	Pass
12	2467	16.41	16.85	92.169	19.65	30	Pass
13	2472	13.25	13.67	44.416	16.48	30	Pass

#### Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.46	17.78	115.698	20.63	30	Pass
6	2437	21.35	21.57	280.007	24.47	30	Pass
11	2462	18.97	19.18	161.68	22.09	30	Pass
12	2467	17.43	17.80	115.591	20.63	30	Pass
13	2472	15.57	15.76	73.728	18.68	30	Pass

#### Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.



### VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.68	17.92	120.558	20.81	30	Pass
6	2437	18.42	18.82	145.71	21.63	30	Pass
9	2452	17.78	18.01	123.22	20.91	30	Pass
10	2457	17.13	17.43	106.977	20.29	30	Pass
11	2462	16.72	16.96	96.649	19.85	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.52	17.82	117.028	20.68	30	Pass
6	2437	21.41	21.62	283.568	24.53	30	Pass
11	2462	19.02	19.22	163.36	22.13	30	Pass
12	2467	17.48	17.83	116.649	20.67	30	Pass
13	2472	15.61	15.81	74.498	18.72	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.72	18.02	122.543	20.88	30	Pass
6	2437	18.46	18.89	147.592	21.69	30	Pass
9	2452	17.82	18.06	124.508	20.95	30	Pass
10	2457	17.18	17.48	108.215	20.34	30	Pass
11	2462	16.78	17.01	97.877	19.91	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.52	17.83	117.167	20.69	30	Pass
6	2437	21.42	21.61	283.553	24.53	30	Pass
11	2462	17.32	17.79	114.068	20.57	30	Pass
12	2467	17.06	17.43	106.151	20.26	30	Pass
13	2472	11.97	12.34	32.879	15.17	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.53	17.82	117.158	20.69	30	Pass
6	2437	21.41	21.63	283.903	24.53	30	Pass
11	2462	17.96	18.33	130.594	21.16	30	Pass
12	2467	17.06	17.10	102.102	20.09	30	Pass
13	2472	11.96	12.36	32.922	15.17	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.52	17.83	117.167	20.69	30	Pass
6	2437	21.42	21.63	284.221	24.54	30	Pass
11	2462	17.23	17.56	109.861	20.41	30	Pass
12	2467	16.59	17.03	96.07	19.83	30	Pass
13	2472	12.03	12.39	33.297	15.22	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.53	17.82	117.158	20.69	30	Pass
6	2437	21.41	21.63	283.903	24.53	30	Pass
11	2462	18.49	18.85	147.368	21.68	30	Pass
12	2467	17.93	18.01	125.328	20.98	30	Pass
13	2472	15.89	16.34	81.868	19.13	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.53	17.82	117.158	20.69	30	Pass
6	2437	21.43	21.62	284.206	24.54	30	Pass
11	2462	17.84	17.81	121.208	20.84	30	Pass
12	2467	16.97	16.95	99.319	19.97	30	Pass
13	2472	13.92	14.40	52.203	17.18	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.59	17.88	118.788	20.75	30	Pass
6	2437	21.44	21.68	286.547	24.57	30	Pass
11	2462	19.08	19.27	165.437	22.19	30	Pass
12	2467	17.54	17.88	118.131	20.72	30	Pass
13	2472	15.67	15.86	75.446	18.78	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	17.78	18.10	124.545	20.95	30	Pass
6	2437	18.53	18.95	149.809	21.76	30	Pass
9	2452	17.89	18.12	126.381	21.02	30	Pass
10	2457	17.23	17.53	109.468	20.39	30	Pass
11	2462	16.83	17.06	99.011	19.96	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

## 7.2 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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### 1TX

#### 802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.51	8	Pass
6	2437	-7.94	8	Pass
11	2462	-8.45	8	Pass
12	2467	-11.58	8	Pass
13	2472	-16.23	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

#### 802.11g

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-16.59	0.24	-16.35	8	Pass
6	2437	-12.56	0.24	-12.32	8	Pass
11	2462	-15.22	0.24	-14.98	8	Pass
12	2467	-16.83	0.24	-16.59	8	Pass
13	2472	-18.46	0.24	-18.22	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

#### 802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-7.93	0.15	-7.78	8	Pass
6	2437	-4.41	0.15	-4.26	8	Pass
11	2462	-6.57	0.15	-6.42	8	Pass
12	2467	-7.65	0.15	-7.50	8	Pass
13	2472	-12.71	0.15	-12.56	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.84	0.15	-8.69	8	Pass
6	2437	-6.15	0.15	-6.00	8	Pass
11	2462	-7.91	0.15	-7.76	8	Pass
12	2467	-10.28	0.15	-10.13	8	Pass
13	2472	-14.15	0.15	-14.00	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-14.16	0.15	-14.01	8	Pass
6	2437	-9.83	0.15	-9.68	8	Pass
11	2462	-13.01	0.15	-12.86	8	Pass
12	2467	-14.66	0.15	-14.51	8	Pass
13	2472	-17.78	0.15	-17.63	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.46	0.15	-8.31	8	Pass
6	2437	-5.56	0.15	-5.41	8	Pass
11	2462	-7.53	0.15	-7.38	8	Pass
12	2467	-8.33	0.15	-8.18	8	Pass
13	2472	-11.25	0.15	-11.10	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-12.99	0.15	-12.84	8	Pass
6	2437	-9.54	0.15	-9.39	8	Pass
11	2462	-12.63	0.15	-12.48	8	Pass
12	2467	-13.28	0.15	-13.13	8	Pass
13	2472	-15.09	0.15	-14.94	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-18.14	0.15	-17.99	8	Pass
6	2437	-14.21	0.15	-14.06	8	Pass
11	2462	-16.34	0.15	-16.19	8	Pass
12	2467	-17.85	0.15	-17.70	8	Pass
13	2472	-19.79	0.15	-19.64	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

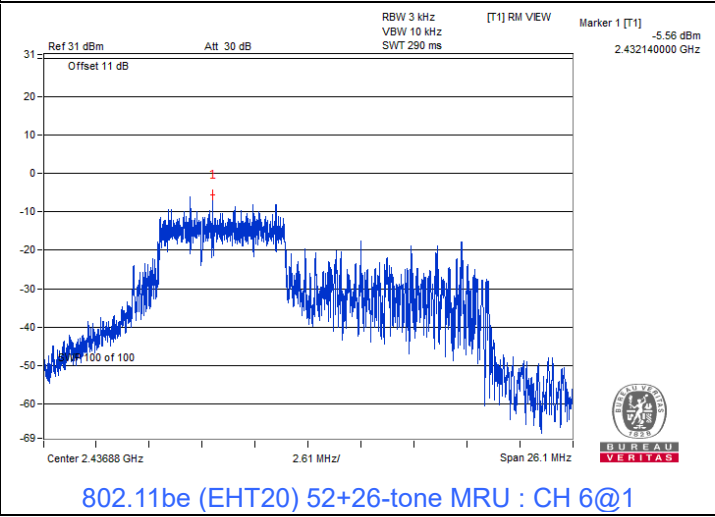
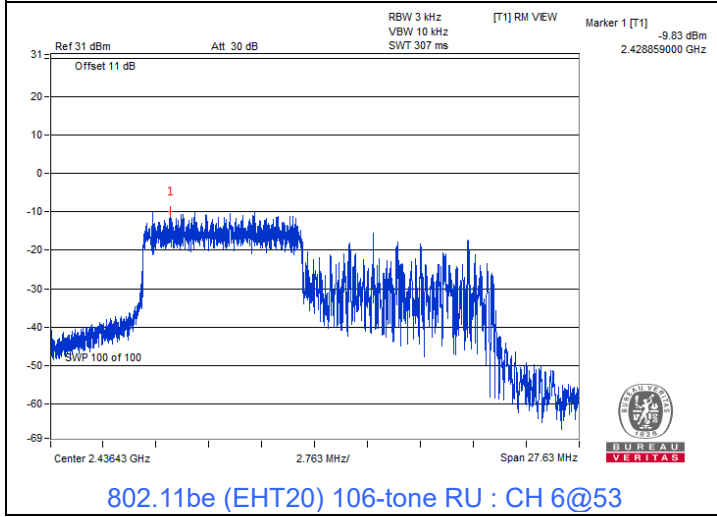
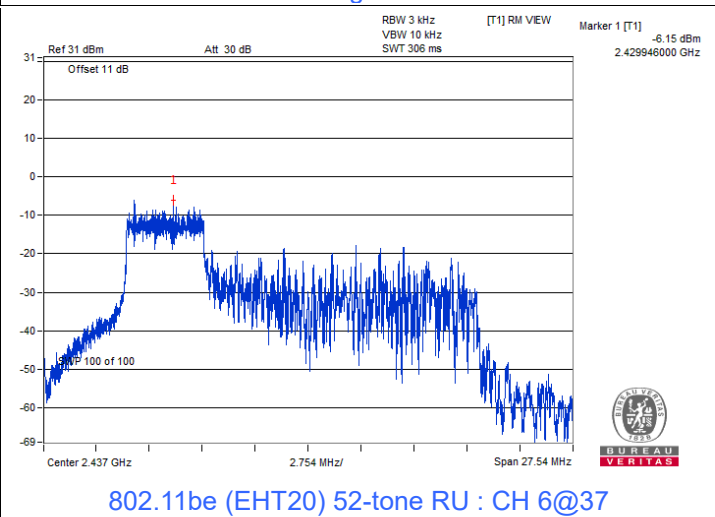
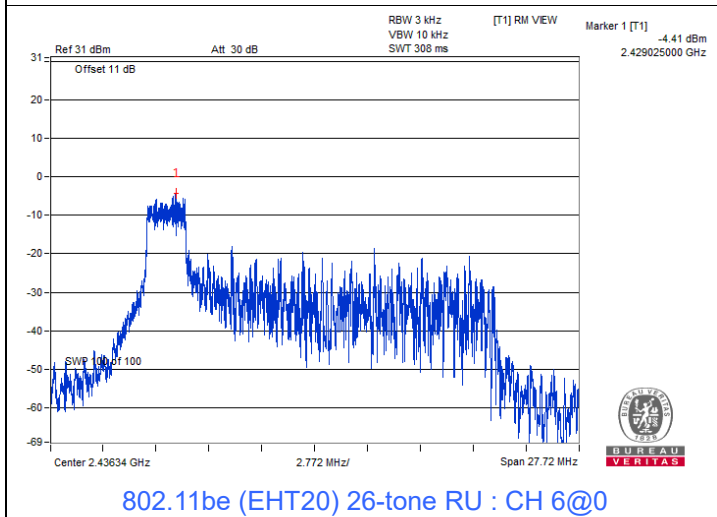
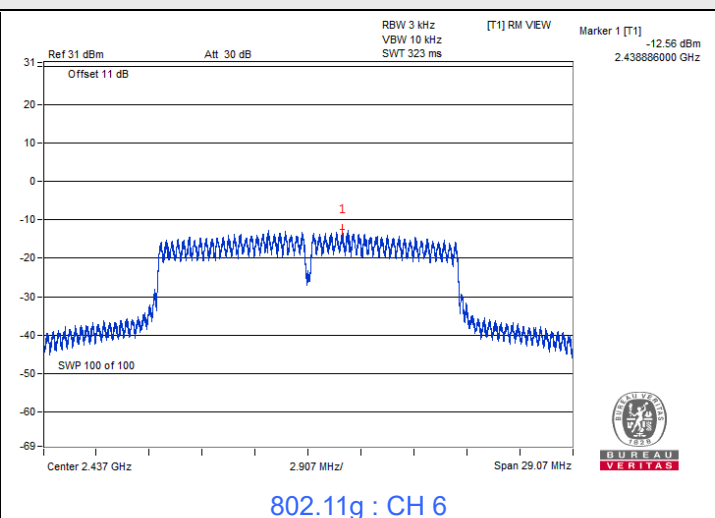
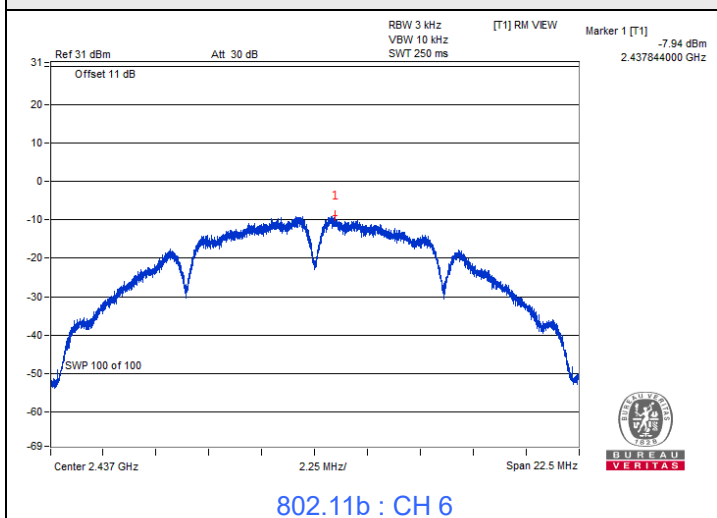
### 802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-20.11	0.15	-19.96	8	Pass
6	2437	-18.42	0.15	-18.27	8	Pass
9	2452	-20.15	0.15	-20.00	8	Pass
10	2457	-20	0.15	-19.85	8	Pass
11	2462	-21.15	0.15	-21.00	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.



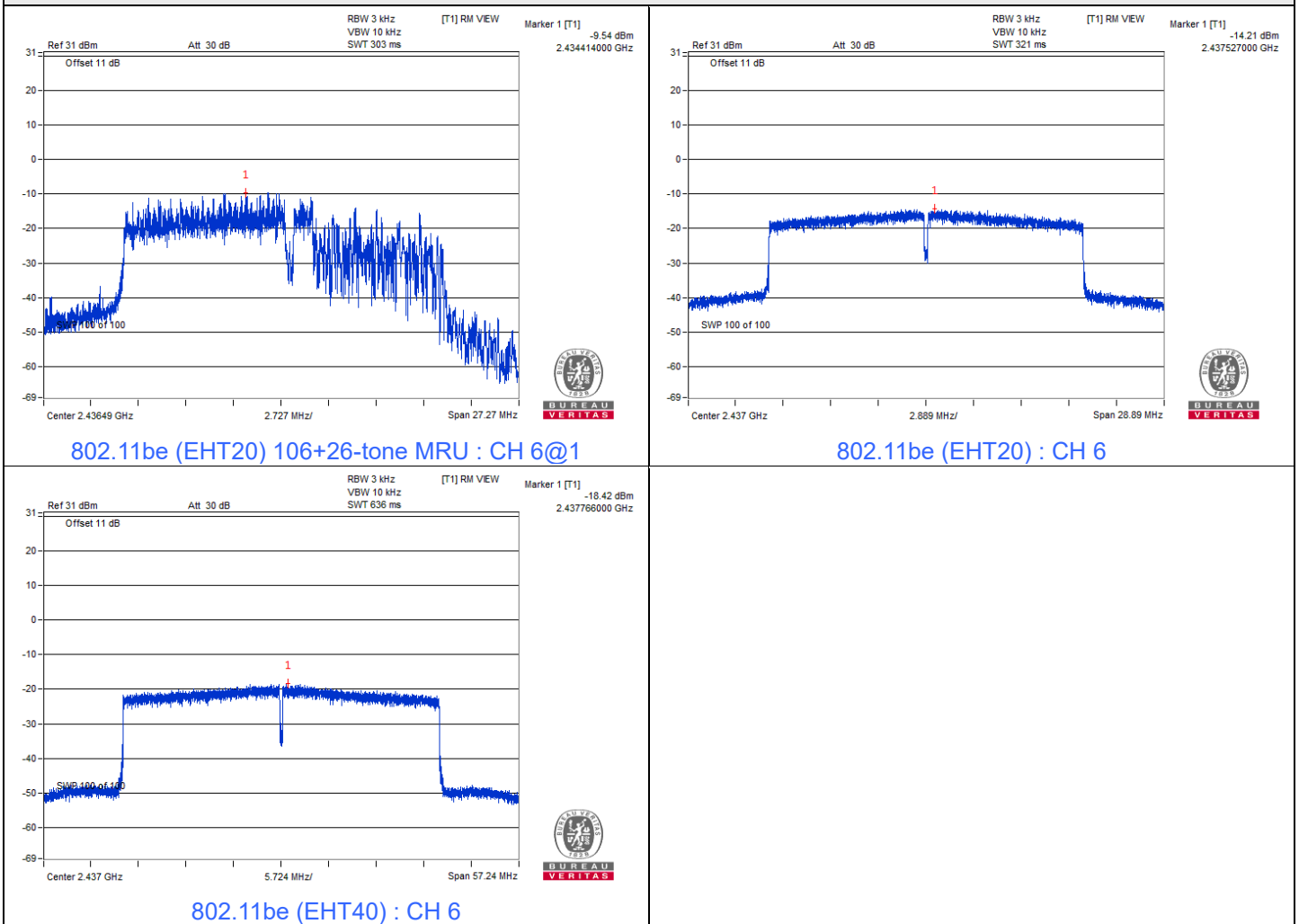
### Spectrum Plot of Maximum Value







### Spectrum Plot of Maximum Value



## 2TX

### 802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-10.58	-9.91	-7.22	7.81	Pass
6	2437	-9.41	-9.16	-6.27	7.81	Pass
11	2462	-10.33	-10.26	-7.28	7.81	Pass
12	2467	-17.31	-16.32	-13.78	7.81	Pass
13	2472	-21.15	-20.68	-17.90	7.81	Pass

#### Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### 802.11g

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-18.01	-17.32	0.24	-14.40	7.81	Pass
6	2437	-14.80	-14.07	0.24	-11.17	7.81	Pass
11	2462	-18.12	-17.30	0.24	-14.44	7.81	Pass
12	2467	-18.64	-18.39	0.24	-15.26	7.81	Pass
13	2472	-21.95	-21.65	0.24	-18.54	7.81	Pass

#### Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### 802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-7.46	-8.25	0.15	-4.67	7.81	Pass
6	2437	-4.90	-5.12	0.15	-1.85	7.81	Pass
11	2462	-8.43	-7.81	0.15	-4.95	7.81	Pass
12	2467	-8.81	-7.93	0.15	-5.18	7.81	Pass
13	2472	-13.95	-13.73	0.15	-10.68	7.81	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8 - (6.19 - 6) = 7.81$  dBm/3kHz.

### 802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-9.95	-9.96	0.15	-6.79	7.81	Pass
6	2437	-6.18	-5.58	0.15	-2.71	7.81	Pass
11	2462	-10.02	-9.86	0.15	-6.78	7.81	Pass
12	2467	-11.20	-10.76	0.15	-7.81	7.81	Pass
13	2472	-15.89	-15.43	0.15	-12.49	7.81	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8 - (6.19 - 6) = 7.81$  dBm/3kHz.

### 802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-14.75	-14.46	0.15	-11.44	7.81	Pass
6	2437	-10.36	-9.62	0.15	-6.81	7.81	Pass
11	2462	-15.39	-14.90	0.15	-11.97	7.81	Pass
12	2467	-15.53	-15.65	0.15	-12.43	7.81	Pass
13	2472	-19.22	-19.08	0.15	-15.99	7.81	Pass

**Notes:**

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8 - (6.19 - 6) = 7.81$  dBm/3kHz.

### 802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-10.05	-9.33	0.15	-6.51	7.81	Pass
6	2437	-6.98	-6.10	0.15	-3.35	7.81	Pass
11	2462	-12.20	-10.85	0.15	-8.31	7.81	Pass
12	2467	-12.16	-11.15	0.15	-8.46	7.81	Pass
13	2472	-13.73	-13.40	0.15	-10.40	7.81	Pass

**Notes:**

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8 - (6.19 - 6) = 7.81$  dBm/3kHz.

**802.11be (EHT20) 106+26-tone MRU**

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-13.96	-13.95	0.15	-10.79	7.81	Pass
6	2437	-10.15	-8.81	0.15	-6.27	7.81	Pass
11	2462	-13.55	-14.08	0.15	-10.64	7.81	Pass
12	2467	-14.97	-14.97	0.15	-11.81	7.81	Pass
13	2472	-17.14	-15.73	0.15	-13.21	7.81	Pass

**Notes:**

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

**802.11be (EHT20)**

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
1	2412	-18.77	-18.38	0.15	-15.41	7.81	Pass
6	2437	-14.83	-14.55	0.15	-11.52	7.81	Pass
11	2462	-17.45	-17.05	0.15	-14.08	7.81	Pass
12	2467	-18.88	-18.34	0.15	-15.44	7.81	Pass
13	2472	-20.34	-20.32	0.15	-17.17	7.81	Pass

**Notes:**

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### 802.11be (EHT40)

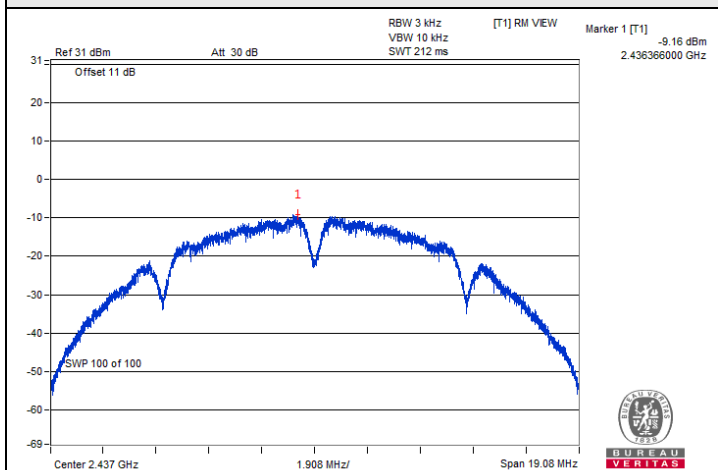
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Duty Factor (dB)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1				
3	2422	-21.17	-20.49	0.15	-17.66	7.81	Pass
6	2437	-19.91	-19.57	0.15	-16.58	7.81	Pass
9	2452	-21.06	-20.38	0.15	-17.55	7.81	Pass
10	2457	-21.27	-21.11	0.15	-18.03	7.81	Pass
11	2462	-22.11	-21.26	0.15	-18.51	7.81	Pass

Notes:

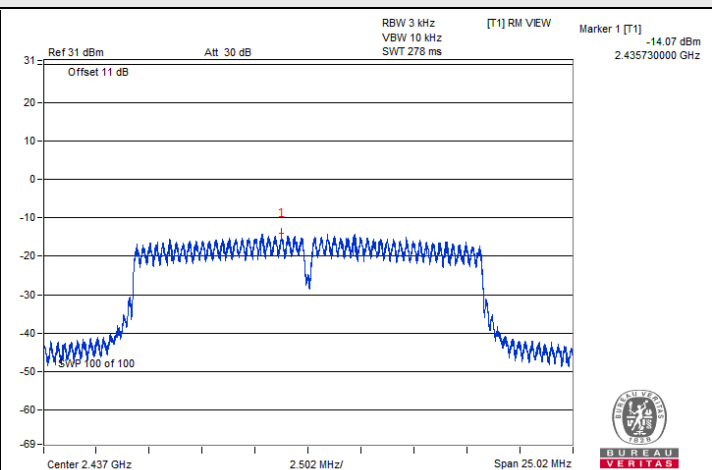
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8 - (6.19 - 6) = 7.81$  dBm/3kHz.



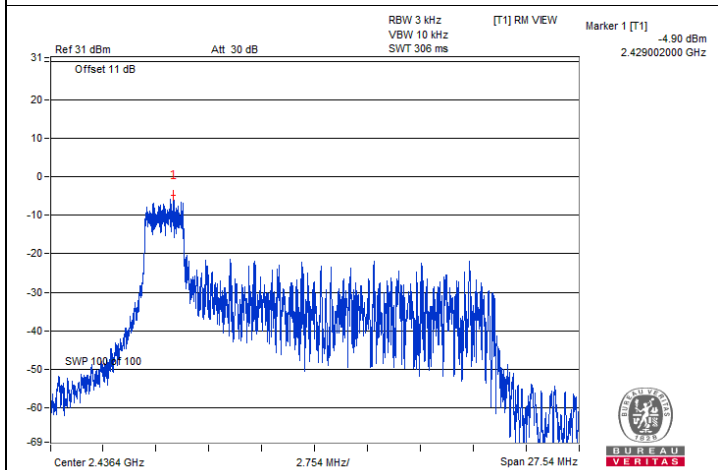
### Spectrum Plot of Maximum Value



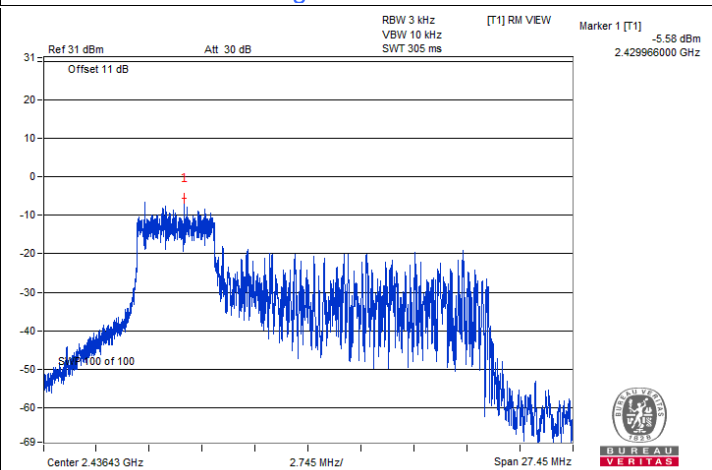
802.11b / Chain 1 : CH 6



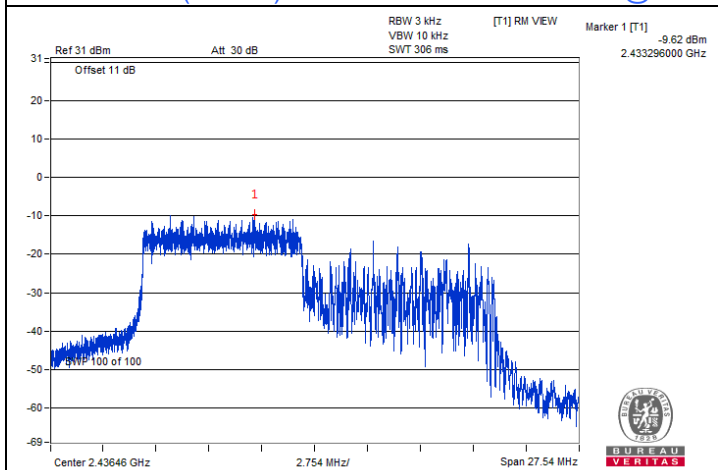
802.11g / Chain 1 : CH 6



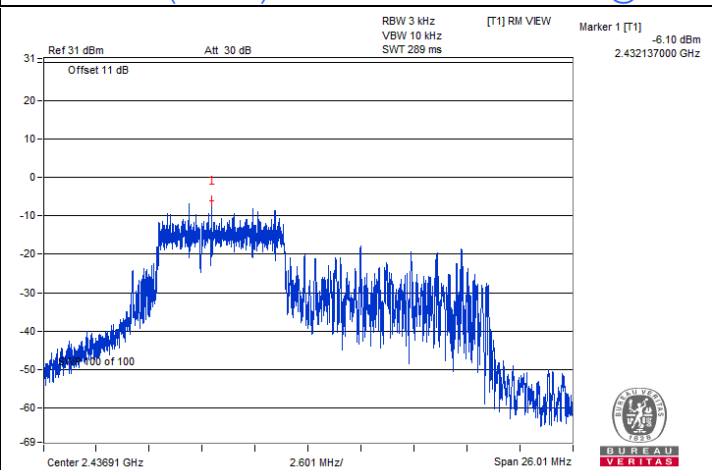
802.11be (EHT20) 26-tone RU / Chain 0 : CH 6@0



802.11be (EHT20) 52-tone RU / Chain 1 : CH 6@37



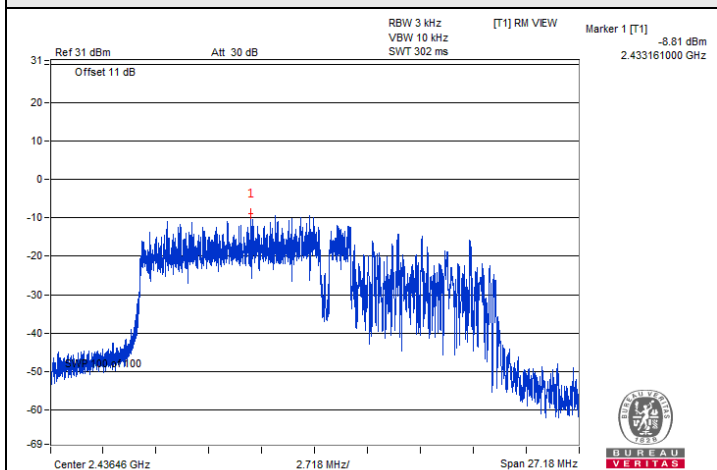
802.11be (EHT20) 106-tone RU / Chain 1 : CH 6@53



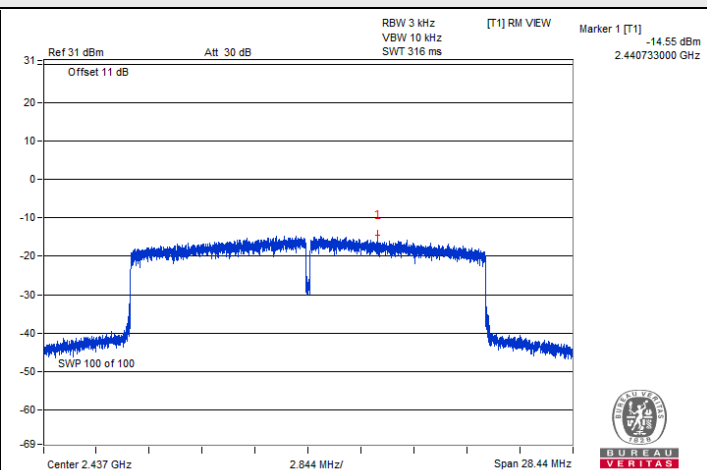
802.11be (EHT20) 52+26-tone MRU / Chain 1 : CH 6@1



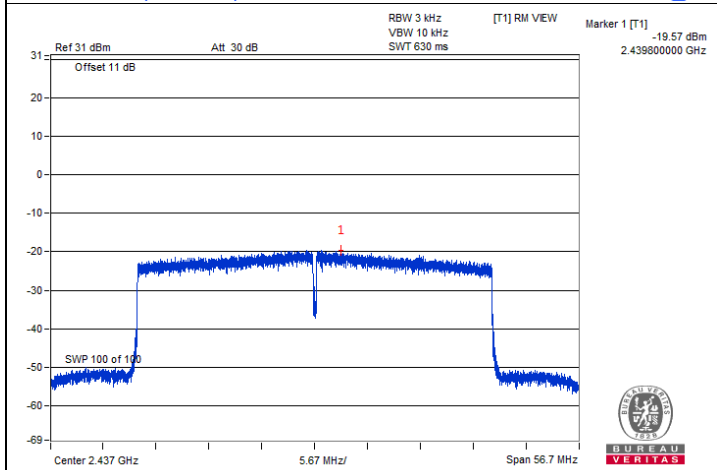
### Spectrum Plot of Maximum Value



802.11be (EHT20) 106+26-tone MRU / Chain 1 : CH 6@1



802.11be (EHT20) / Chain 1 : CH 6



802.11be (EHT40) / Chain 1 : CH 6



### 7.3 6 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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#### 1TX

##### 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	8.09	0.5	Pass
6	2437	9.14	0.5	Pass
11	2462	8.08	0.5	Pass
12	2467	8.09	0.5	Pass
13	2472	8.13	0.5	Pass

##### 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.38	0.5	Pass
6	2437	16.35	0.5	Pass
11	2462	16.35	0.5	Pass
12	2467	16.36	0.5	Pass
13	2472	16.39	0.5	Pass

##### 802.11be (EHT20) 26-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	2.15	0.5	Pass
6	2437	2.15	0.5	Pass
11	2462	2.15	0.5	Pass
12	2467	2.14	0.5	Pass
13	2472	2.15	0.5	Pass

### 802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.11	0.5	Pass
6	2437	17.15	0.5	Pass
11	2462	17.14	0.5	Pass
12	2467	17.09	0.5	Pass
13	2472	17.08	0.5	Pass

### 802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.2	0.5	Pass
6	2437	18.14	0.5	Pass
11	2462	17.37	0.5	Pass
12	2467	17.4	0.5	Pass
13	2472	17.4	0.5	Pass

### 802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.18	0.5	Pass
6	2437	15.18	0.5	Pass
11	2462	15.19	0.5	Pass
12	2467	15.20	0.5	Pass
13	2472	15.18	0.5	Pass

### 802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.13	0.5	Pass
6	2437	17.17	0.5	Pass
11	2462	17.16	0.5	Pass
12	2467	17.14	0.5	Pass
13	2472	17.16	0.5	Pass

**802.11be (EHT20)**

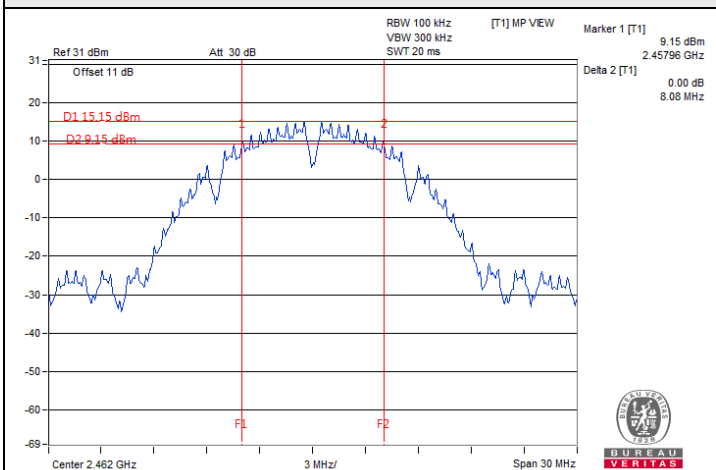
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	18.59	0.5	Pass
6	2437	18.03	0.5	Pass
11	2462	18.63	0.5	Pass
12	2467	18.49	0.5	Pass
13	2472	18.44	0.5	Pass

**802.11be (EHT40)**

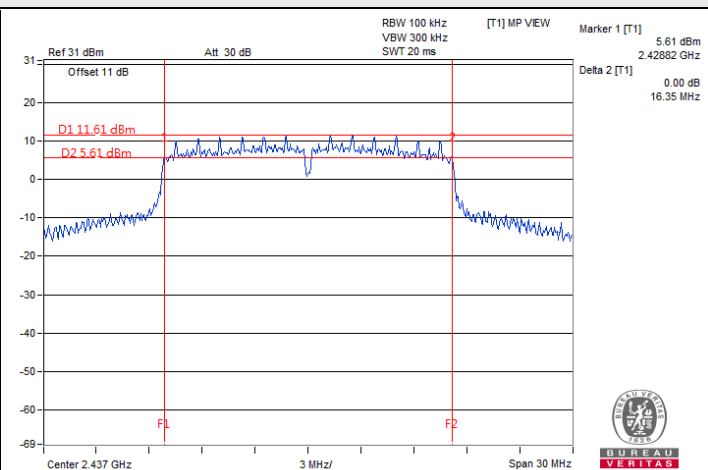
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	37.7	0.5	Pass
6	2437	37.06	0.5	Pass
9	2452	37.3	0.5	Pass
10	2457	37.43	0.5	Pass
11	2462	37.74	0.5	Pass



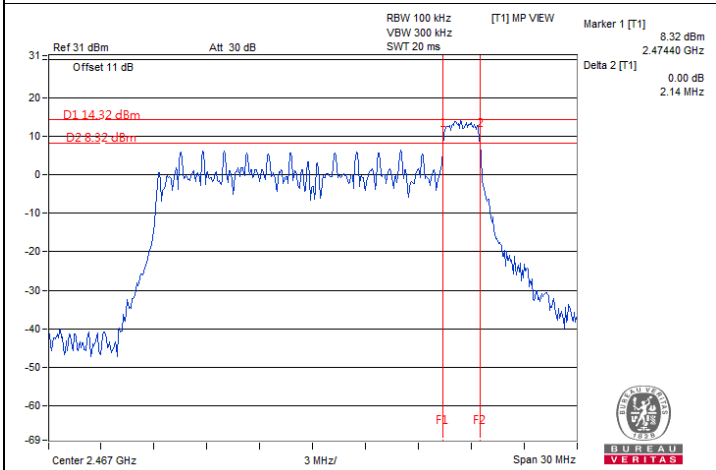
### Spectrum Plot of Minimum Value



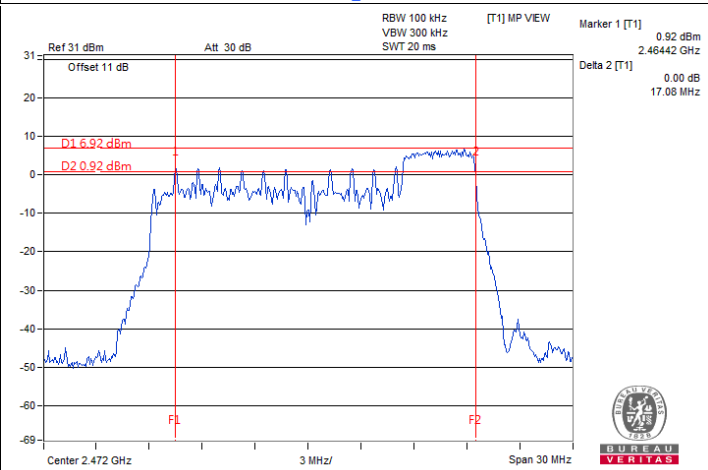
802.11b : CH 11



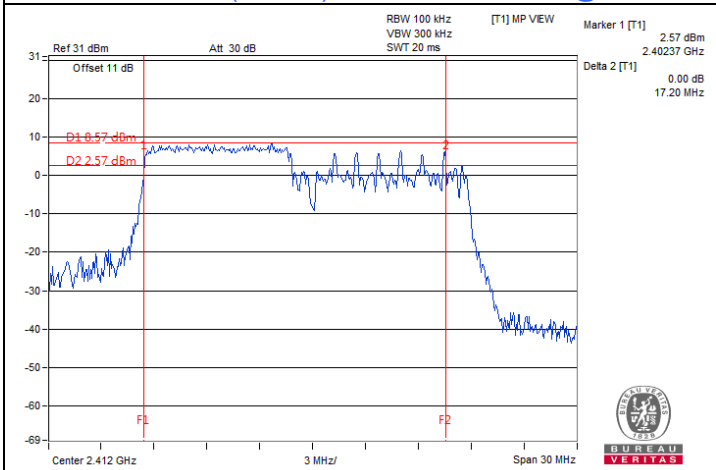
802.11g : CH 6



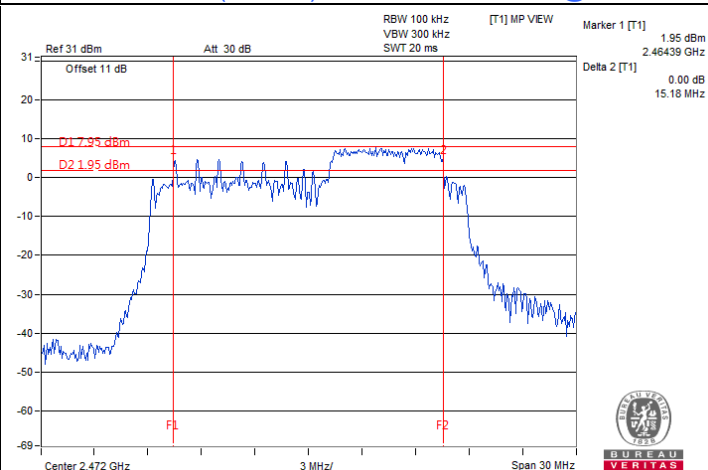
802.11be (EHT20) 26-tone RU : CH 12@8



802.11be (EHT20) 52-tone RU : CH 13@40



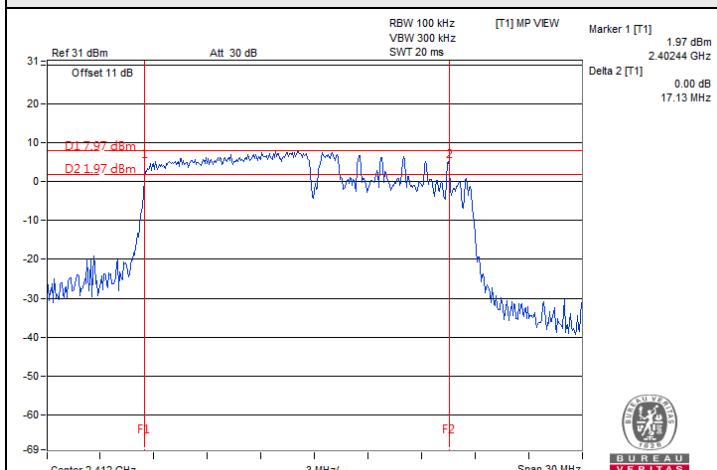
802.11be (EHT20) 106-tone RU : CH 1@53



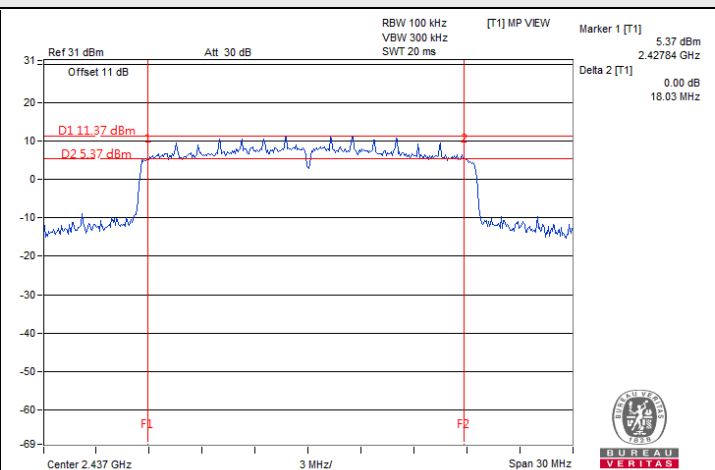
802.11be (EHT20) 52+26-tone MRU : CH 13@3



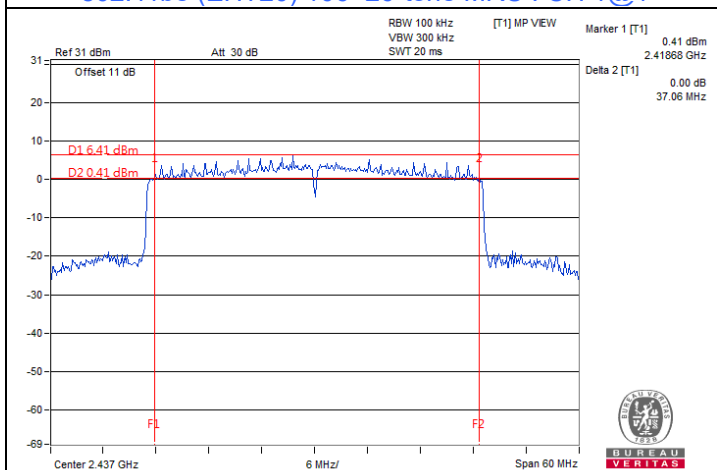
### Spectrum Plot of Minimum Value



802.11be (EHT20) 106+26-tone MRU : CH 1@1



802.11be (EHT20) : CH 6



802.11be (EHT40) : CH 6

**2TX**
**802.11b**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.09	8.07	0.5	Pass
6	2437	8.06	8.09	0.5	Pass
11	2462	8.08	8.09	0.5	Pass
12	2467	8.09	8.09	0.5	Pass
13	2472	8.10	8.10	0.5	Pass

**802.11g**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.40	16.39	0.5	Pass
6	2437	16.37	16.35	0.5	Pass
11	2462	16.37	16.35	0.5	Pass
12	2467	16.37	16.37	0.5	Pass
13	2472	16.38	16.37	0.5	Pass

**802.11be (EHT20) 26-tone RU**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	2.14	2.16	0.5	Pass
6	2437	2.12	2.18	0.5	Pass
11	2462	2.13	2.15	0.5	Pass
12	2467	2.13	2.13	0.5	Pass
13	2472	2.13	2.09	0.5	Pass

### 802.11be (EHT20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.12	17.09	0.5	Pass
6	2437	17.10	17.11	0.5	Pass
11	2462	17.11	17.08	0.5	Pass
12	2467	17.10	17.08	0.5	Pass
13	2472	17.11	17.13	0.5	Pass

### 802.11be (EHT20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.20	18.15	0.5	Pass
6	2437	17.20	17.21	0.5	Pass
11	2462	17.43	17.42	0.5	Pass
12	2467	17.39	17.42	0.5	Pass
13	2472	17.39	17.44	0.5	Pass

### 802.11be (EHT20) 52+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.19	15.18	0.5	Pass
6	2437	15.19	15.19	0.5	Pass
11	2462	15.18	15.19	0.5	Pass
12	2467	15.18	15.19	0.5	Pass
13	2472	15.19	15.18	0.5	Pass

### 802.11be (EHT20) 106+26-tone MRU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.12	17.08	0.5	Pass
6	2437	17.14	17.16	0.5	Pass
11	2462	17.09	17.17	0.5	Pass
12	2467	17.13	17.14	0.5	Pass
13	2472	17.17	17.17	0.5	Pass

**802.11be (EHT20)**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.68	18.64	0.5	Pass
6	2437	18.63	18.19	0.5	Pass
11	2462	18.33	18.46	0.5	Pass
12	2467	18.72	18.42	0.5	Pass
13	2472	18.60	18.64	0.5	Pass

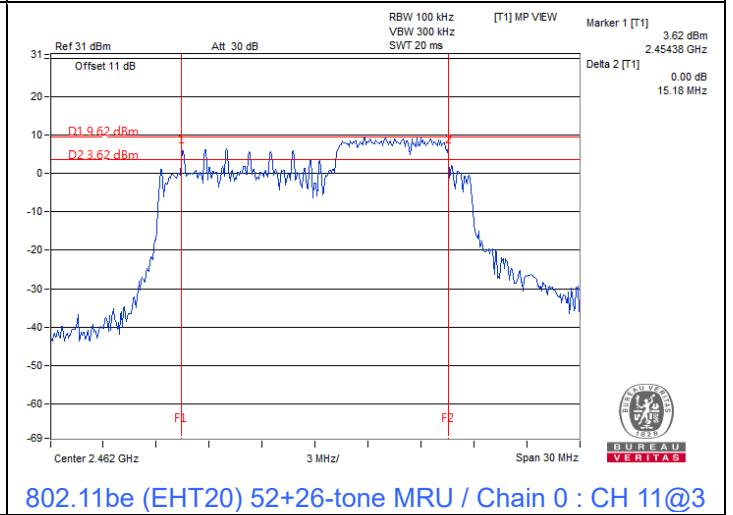
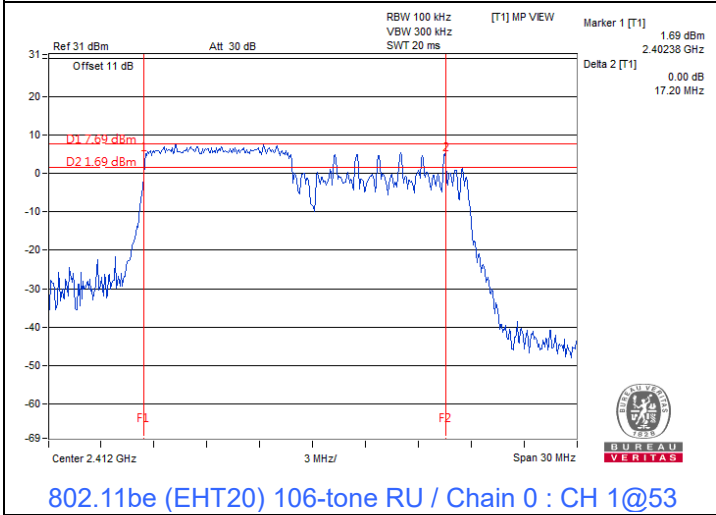
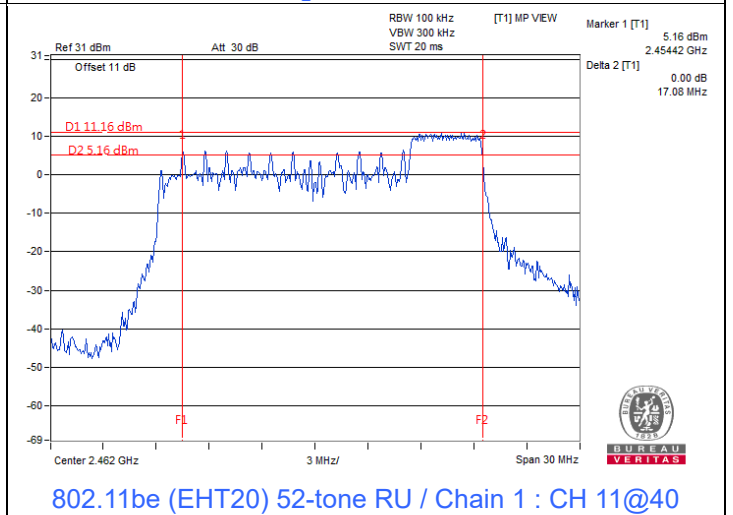
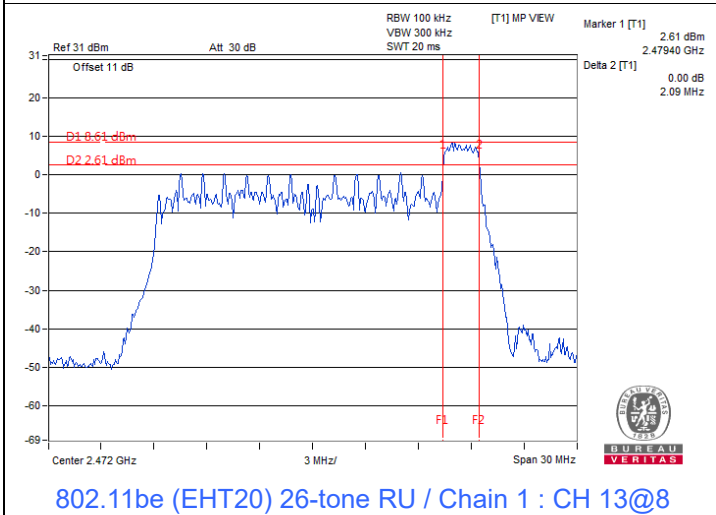
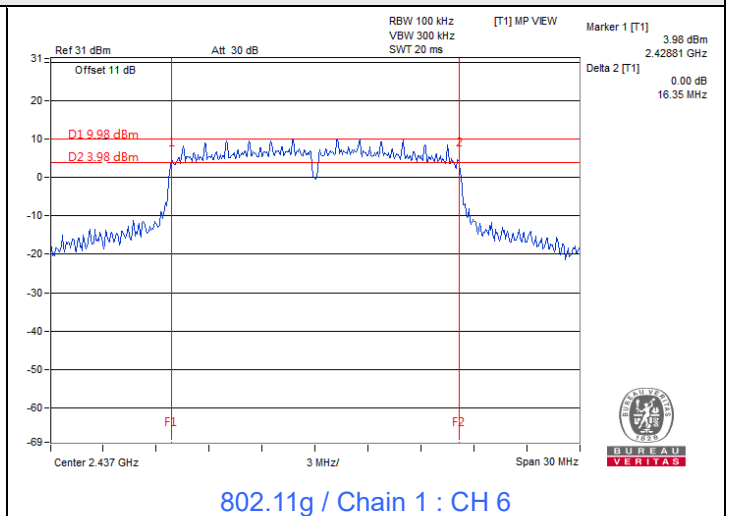
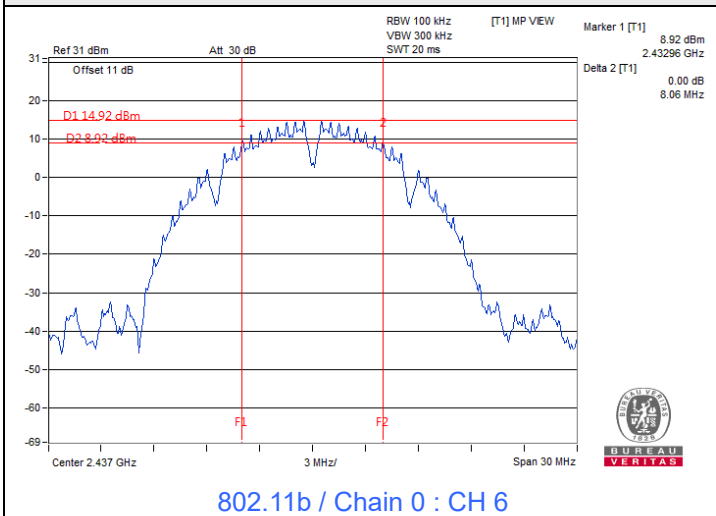
**802.11be (EHT40)**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.30	37.60	0.5	Pass
6	2437	37.41	37.15	0.5	Pass
9	2452	37.00	37.28	0.5	Pass
10	2457	36.60	37.27	0.5	Pass
11	2462	37.60	37.79	0.5	Pass

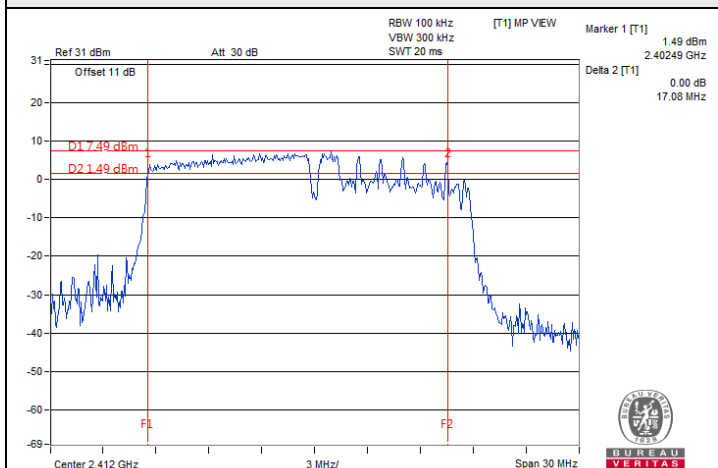




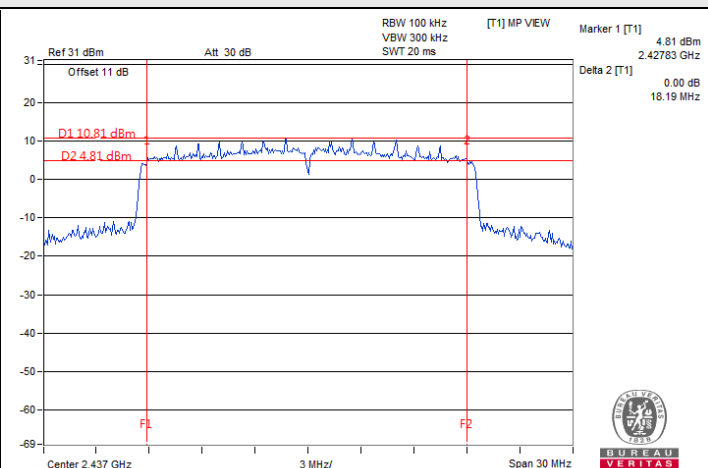
### Spectrum Plot of Minimum Value



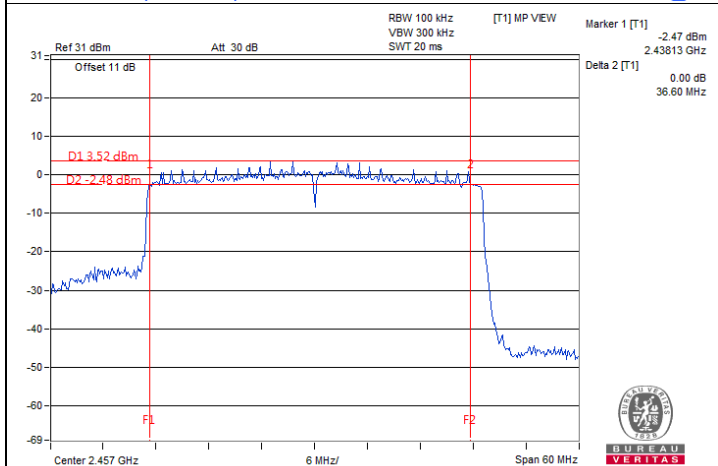
### Spectrum Plot of Minimum Value



802.11be (EHT20) 106+26-tone MRU / Chain 1 : CH 1@1



802.11be (EHT20) / Chain 1 : CH 6



802.11be (EHT40) / Chain 0 : CH 10

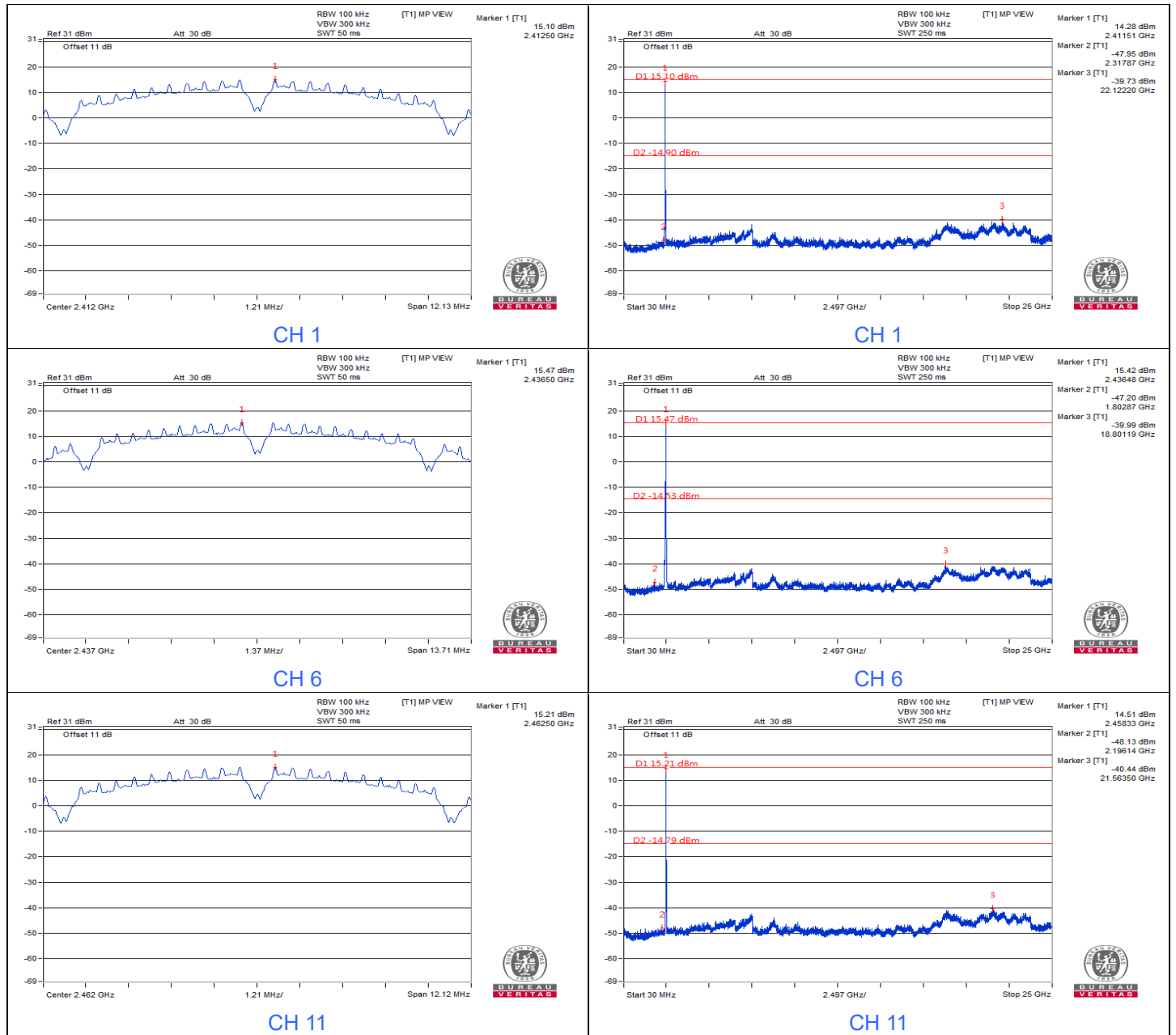


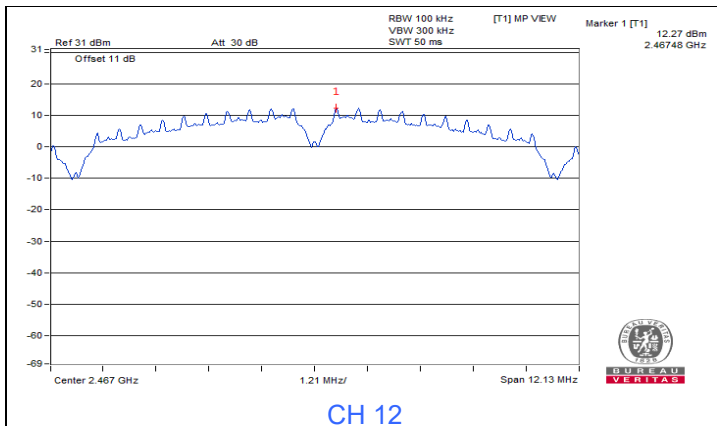
### 7.4 Conducted Out of Band Emissions

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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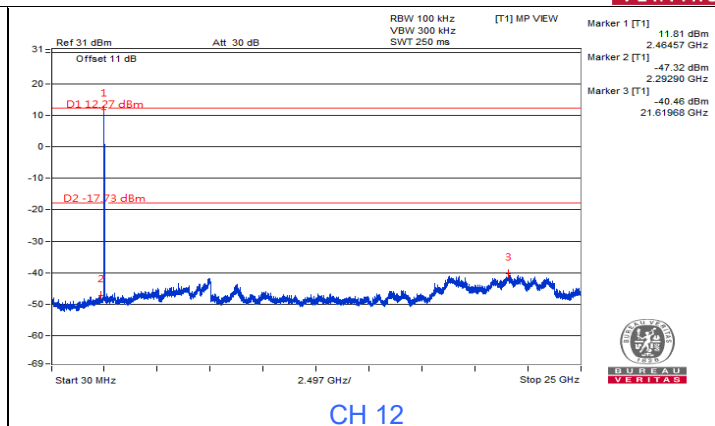
1TX

802.11b

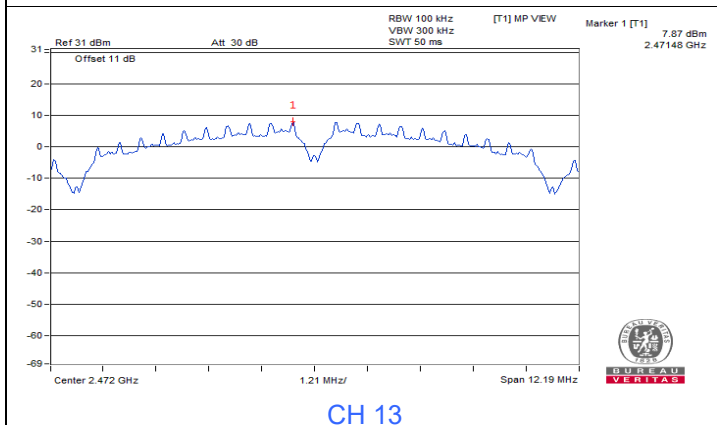




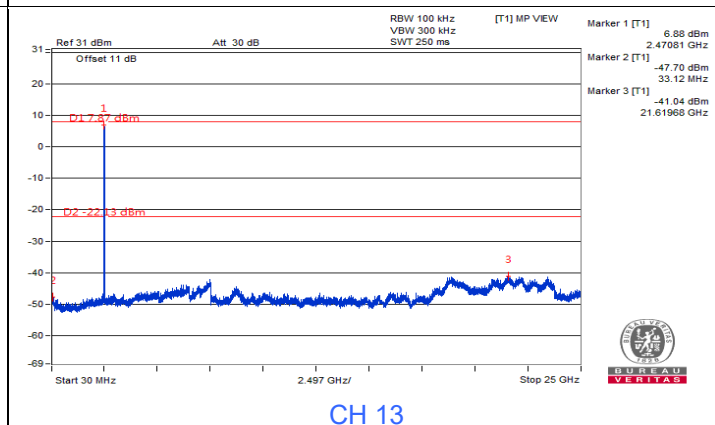
CH 12



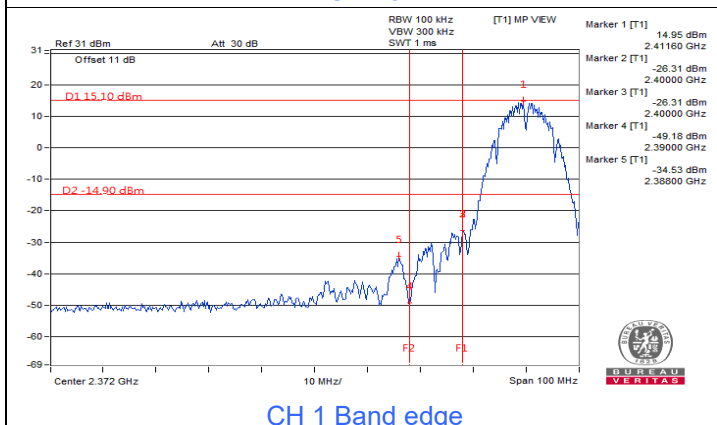
CH 12



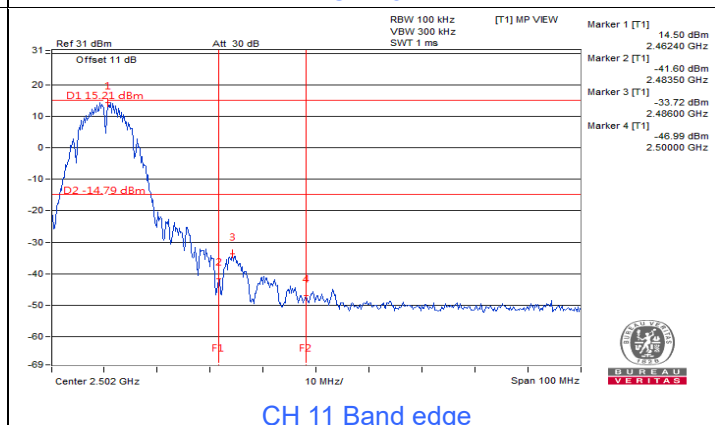
CH 13



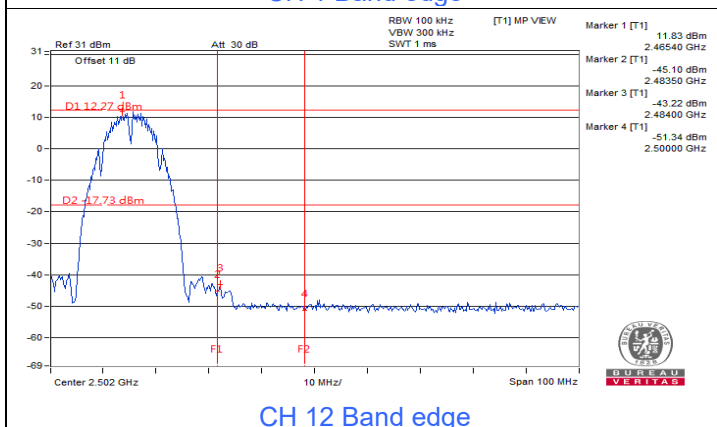
CH 13



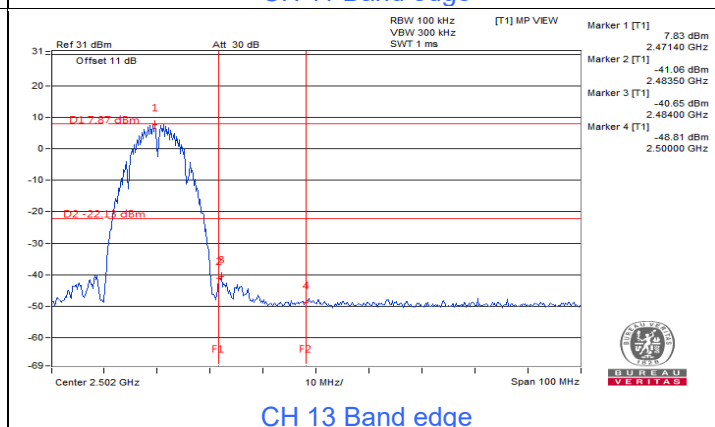
CH 1 Band edge



CH 11 Band edge



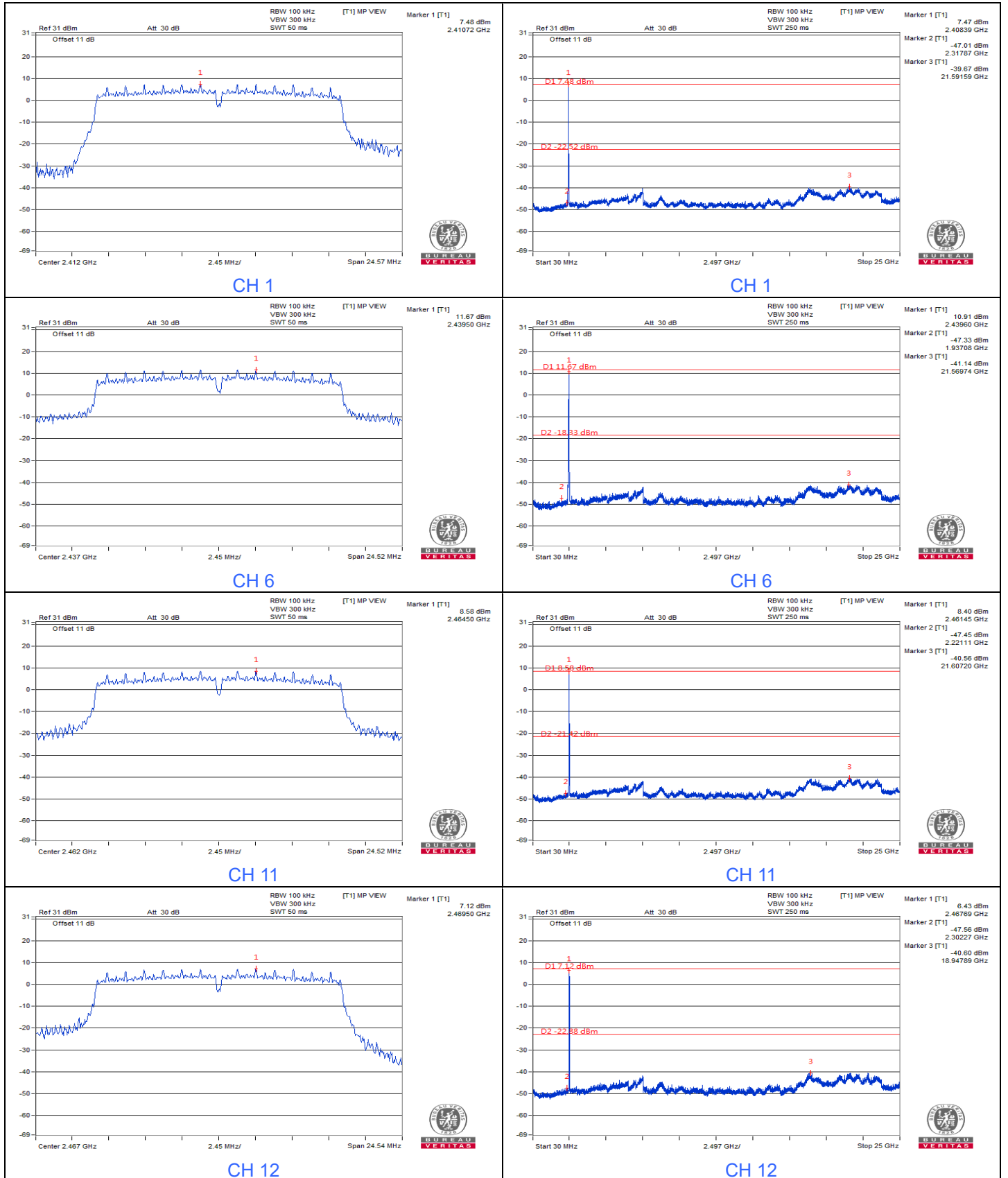
CH 12 Band edge

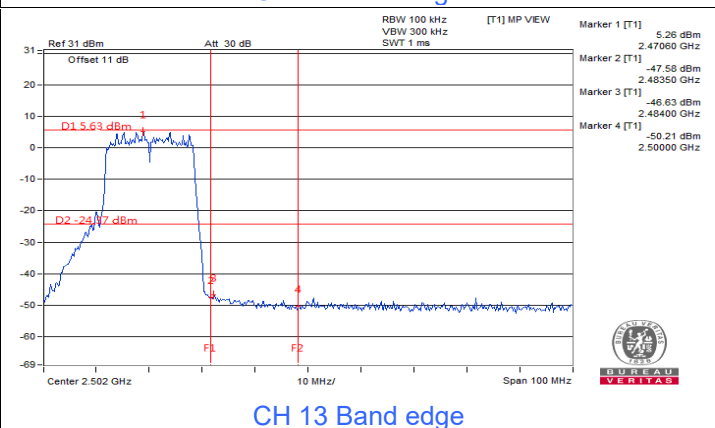
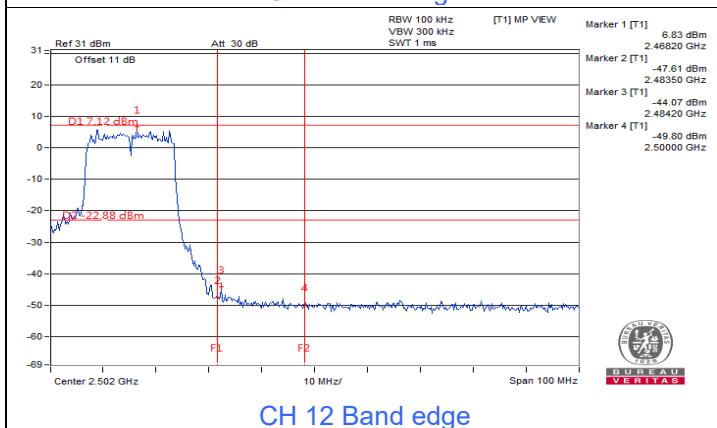
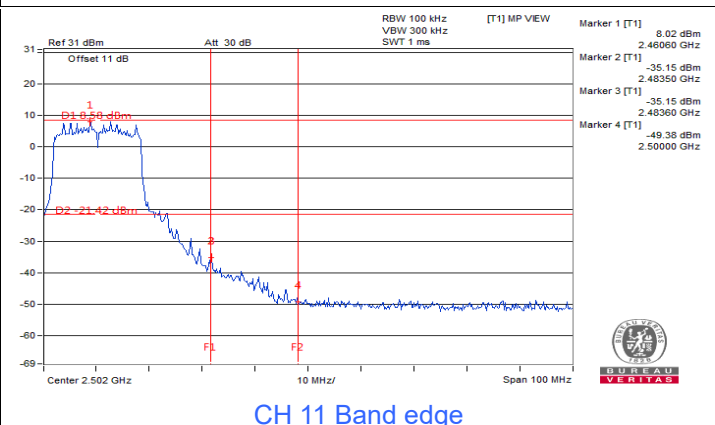
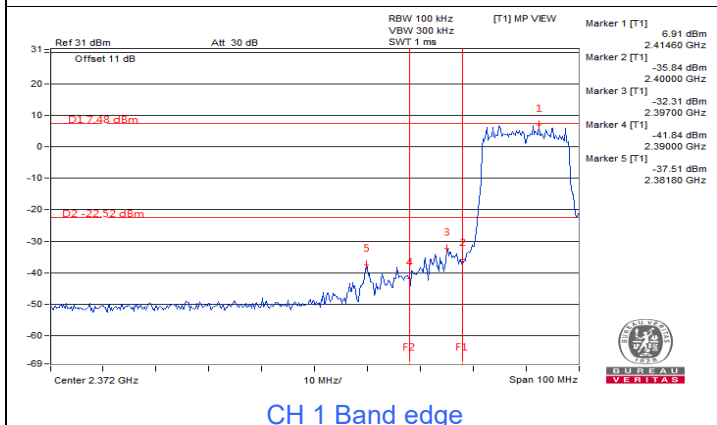
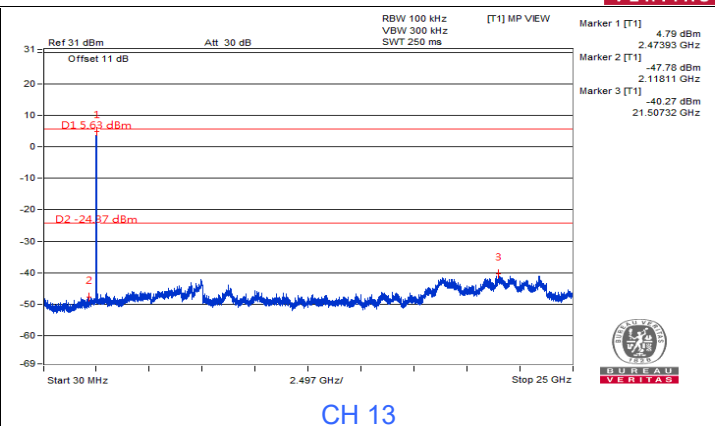
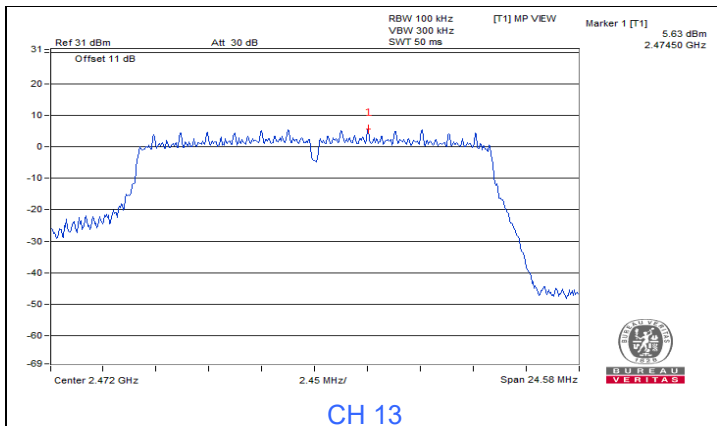


CH 13 Band edge



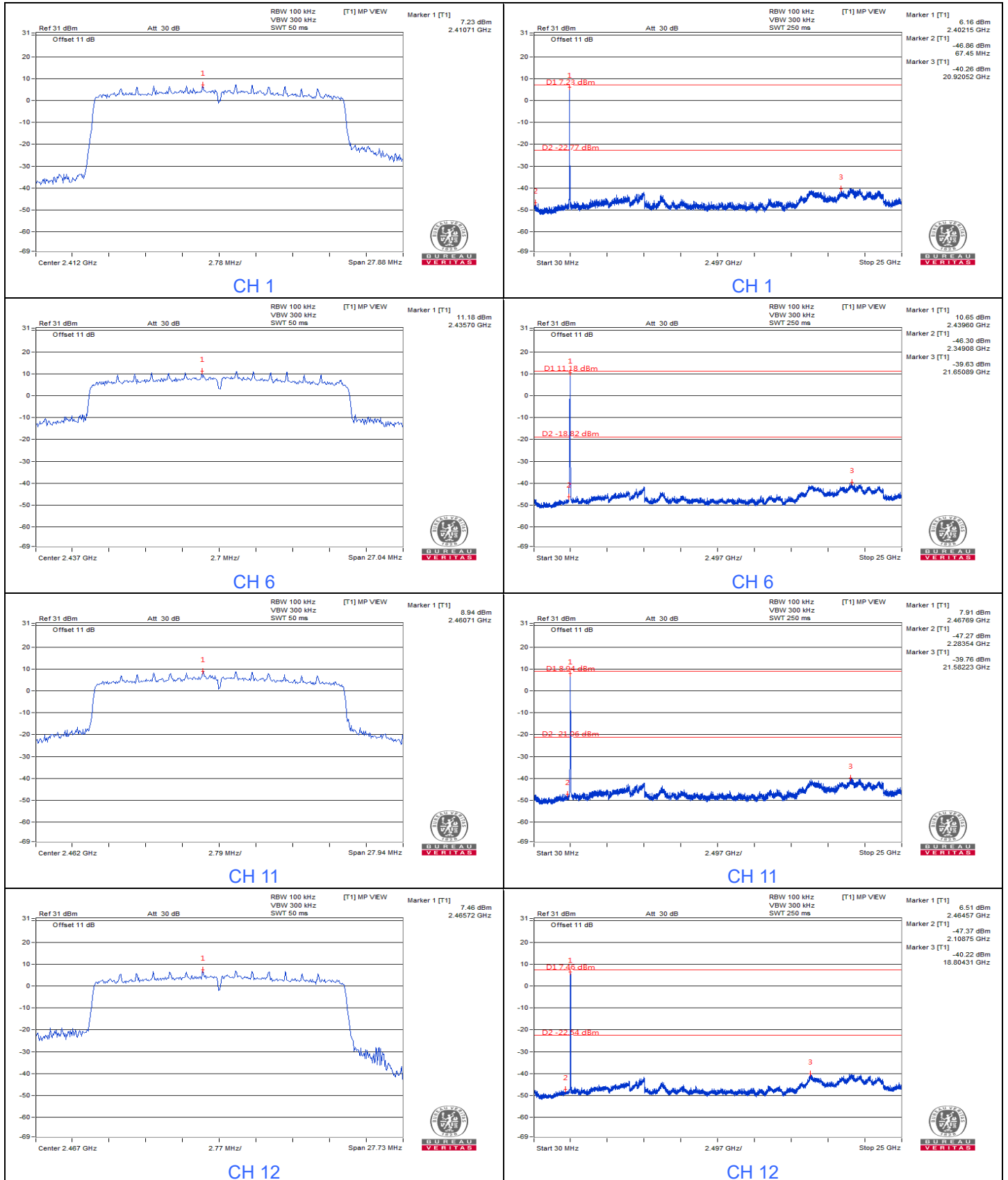
# 802.11g

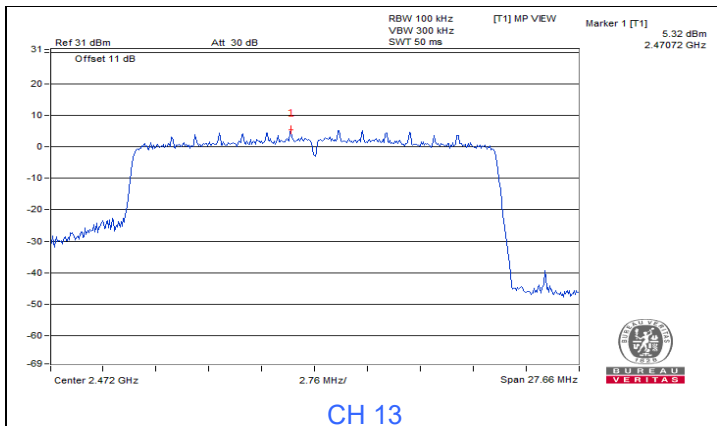




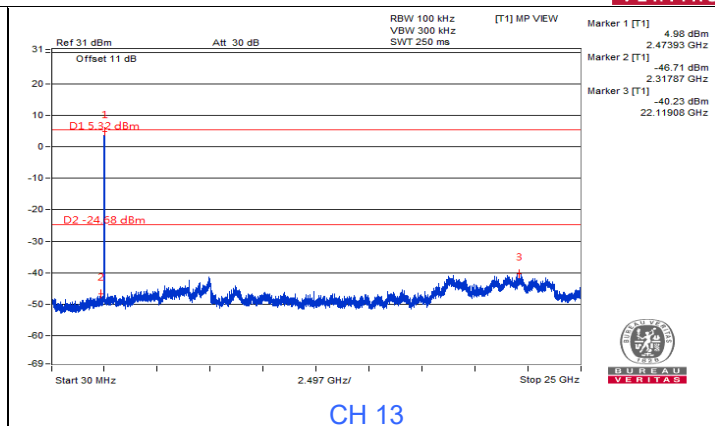


### 802.11be (EHT20)

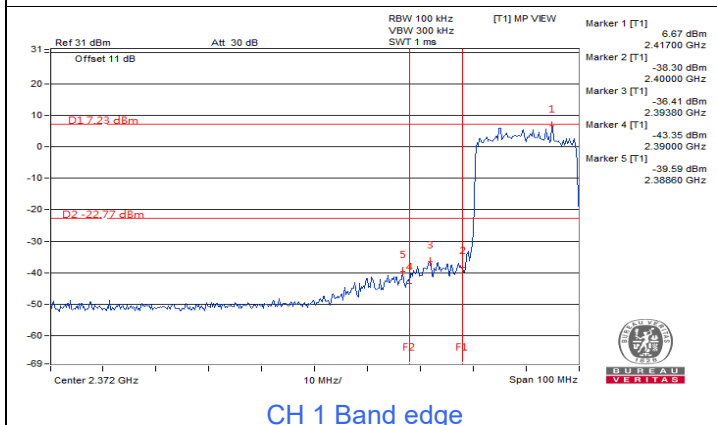




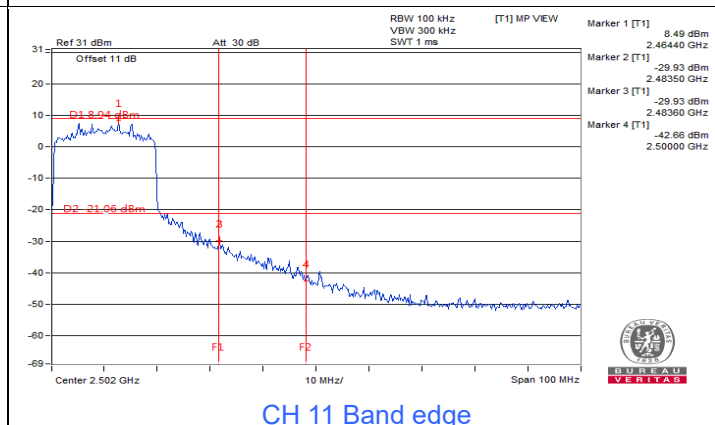
CH 13



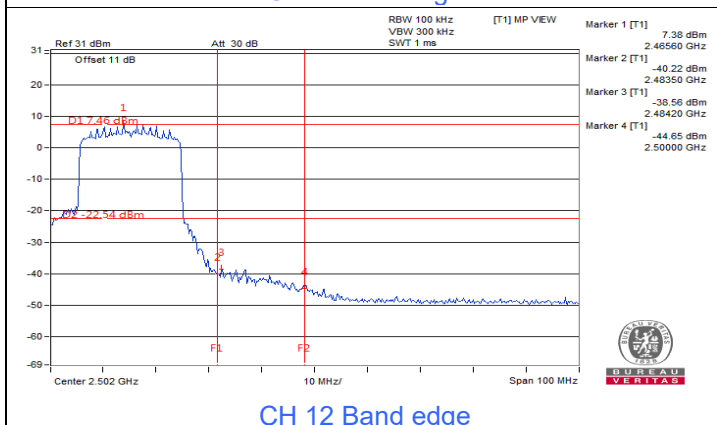
CH 13



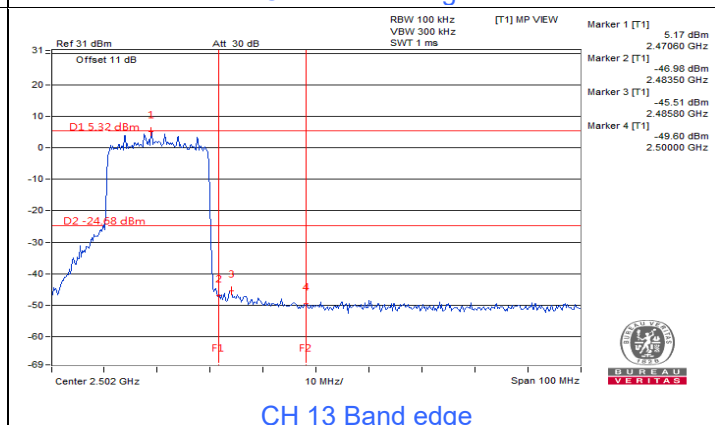
CH 1 Band edge



CH 11 Band edge



CH 12 Band edge

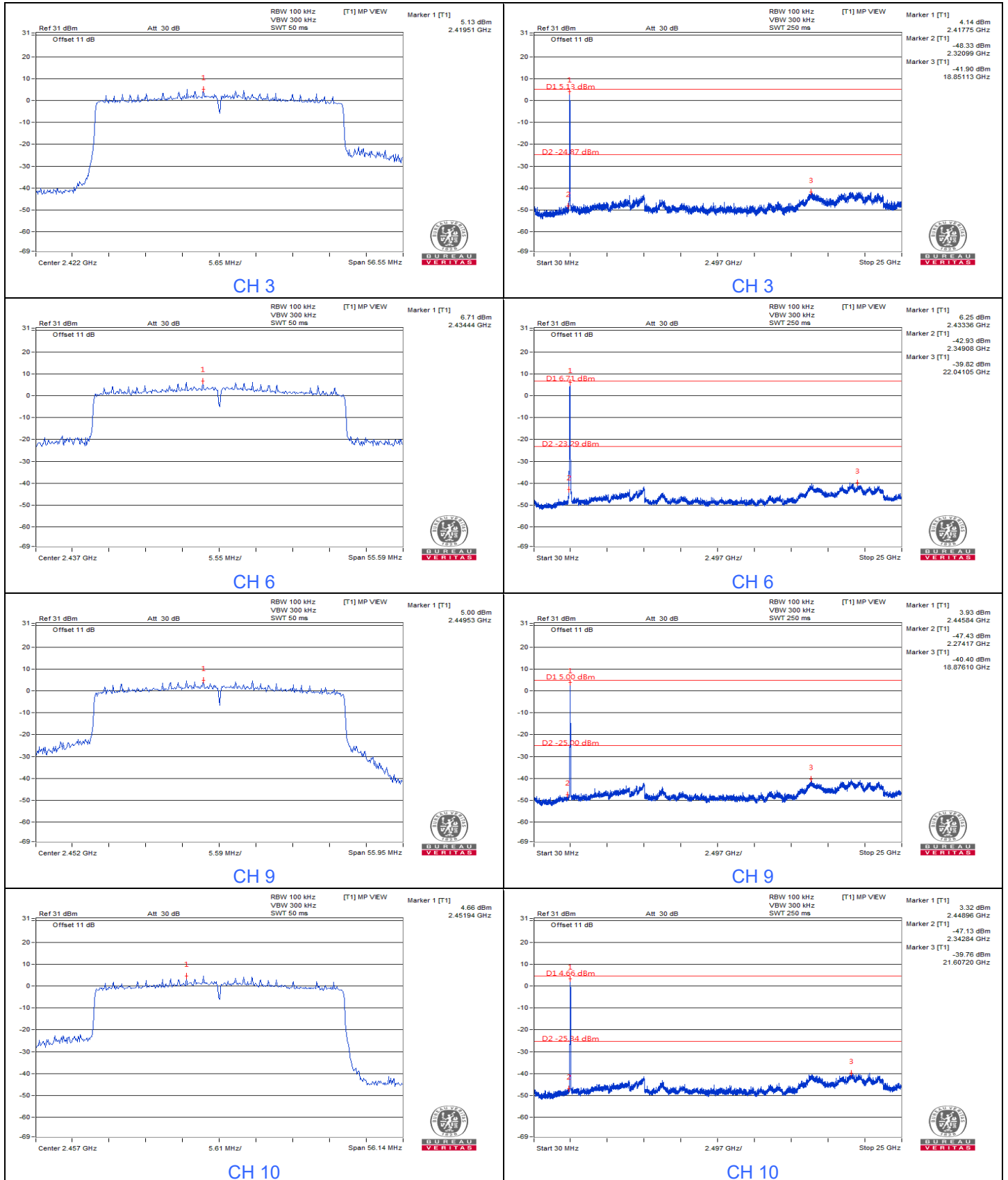


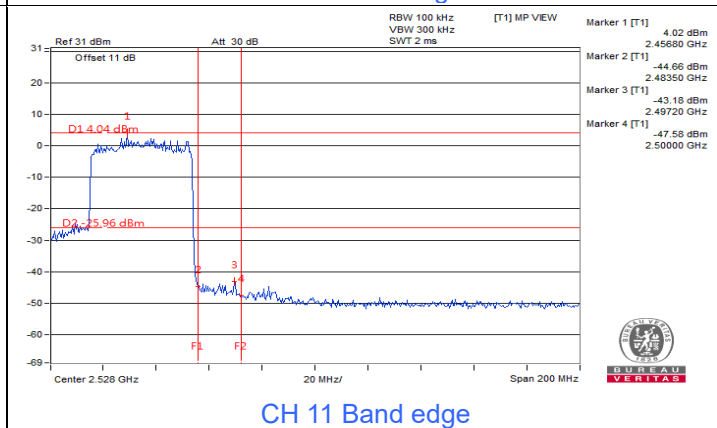
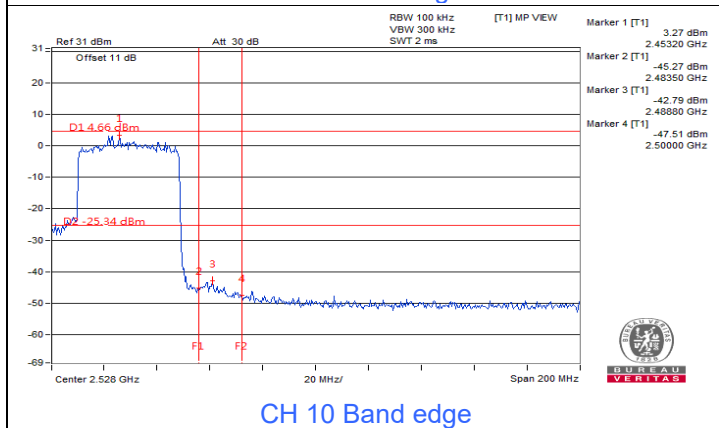
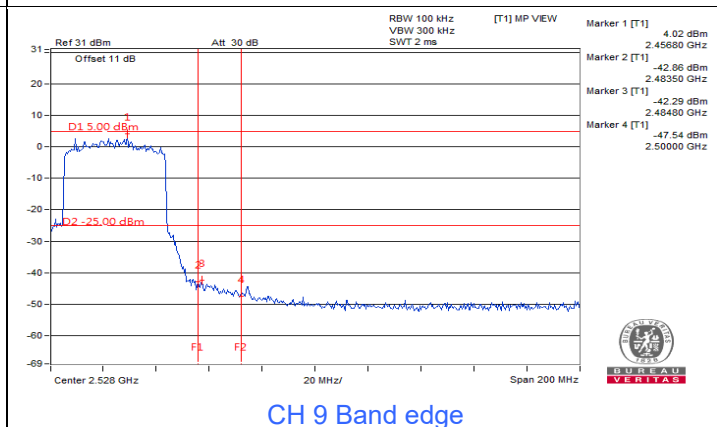
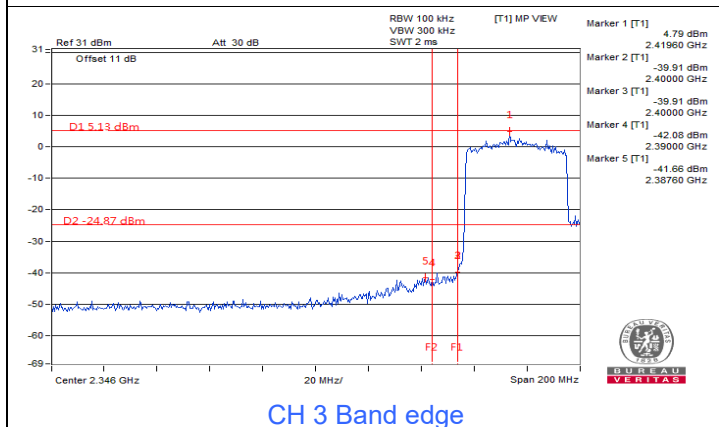
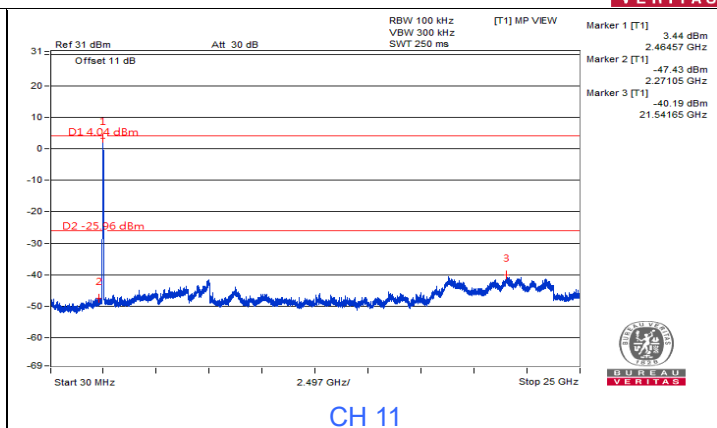
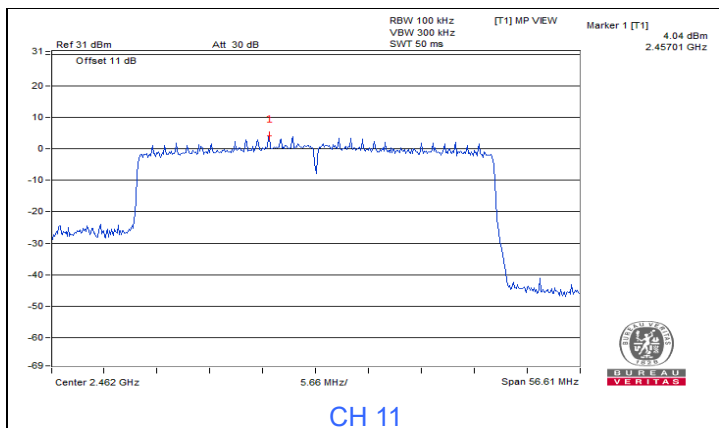
CH 13 Band edge





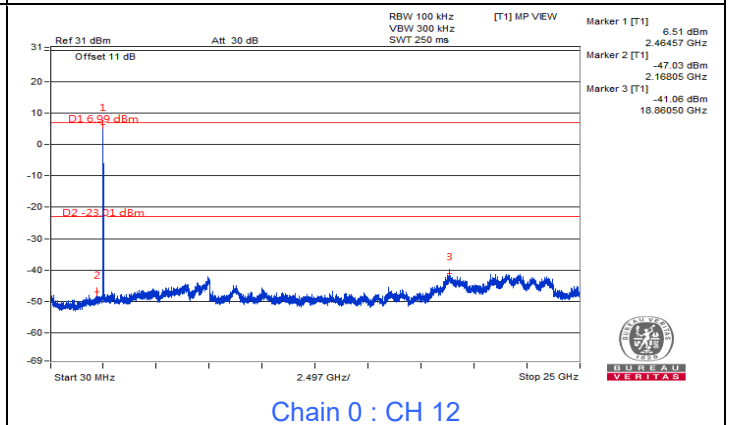
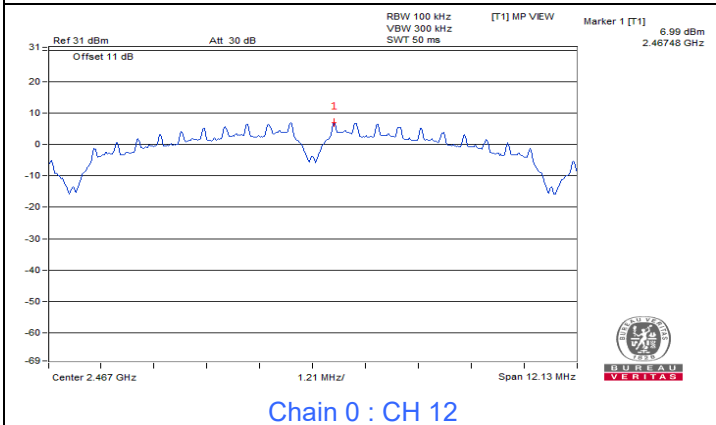
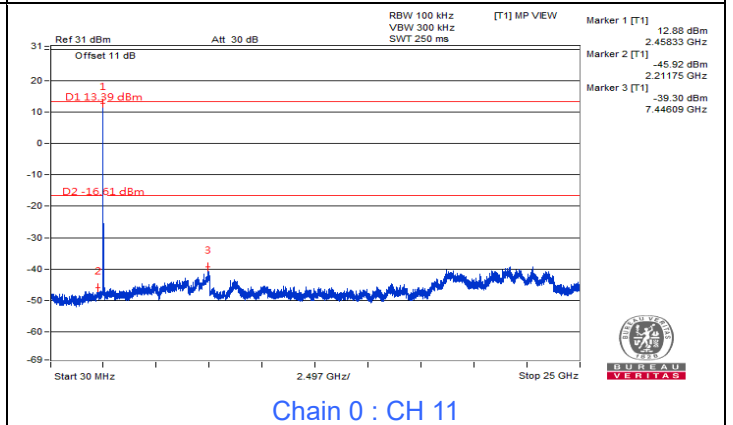
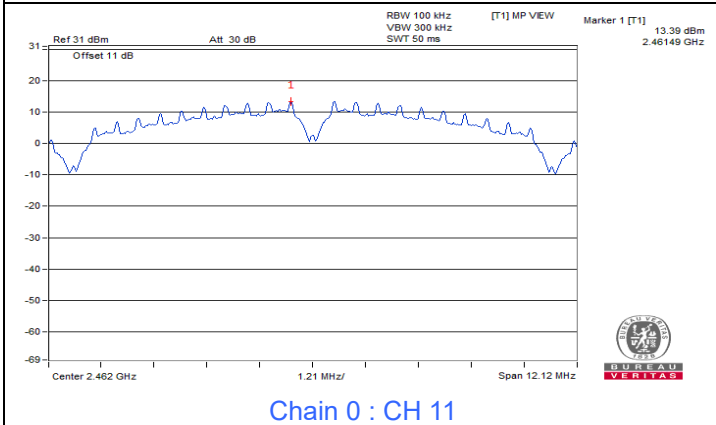
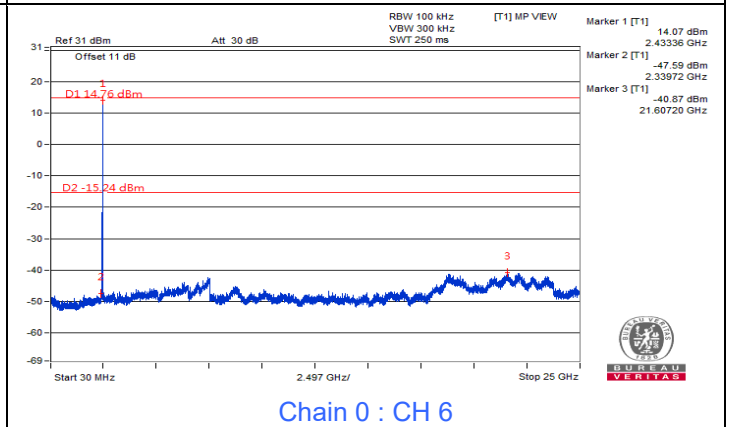
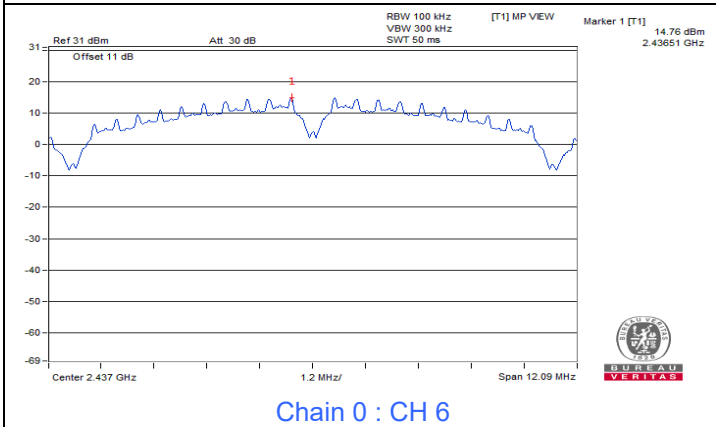
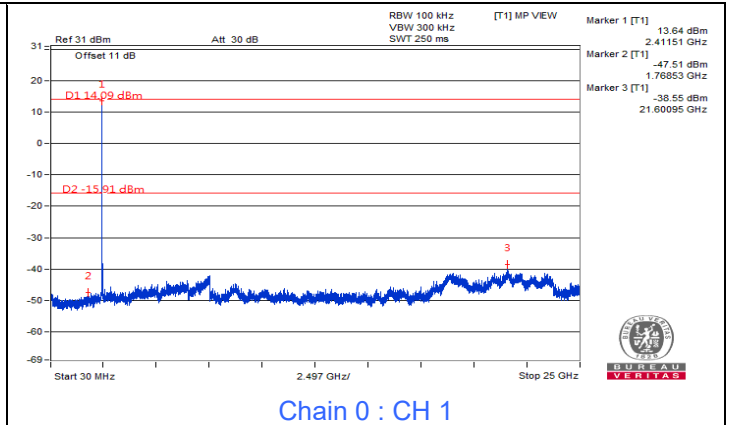
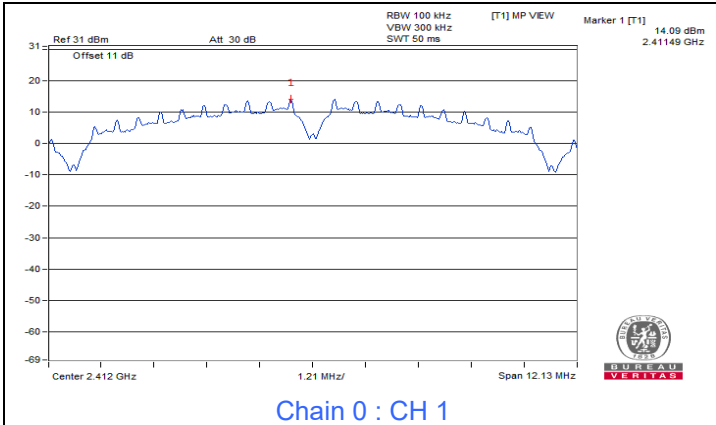
### 802.11be (EHT40)

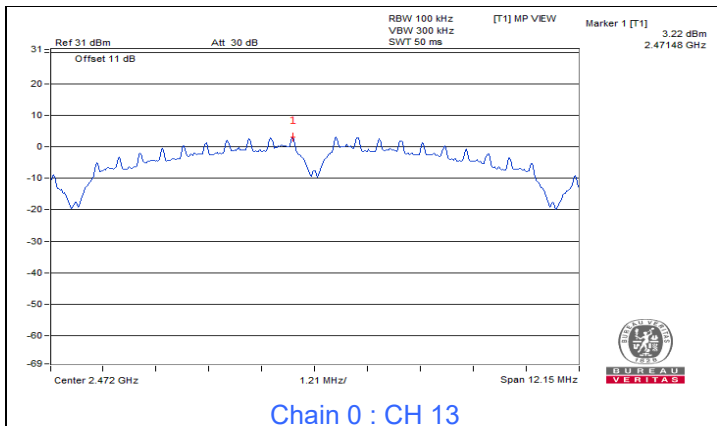




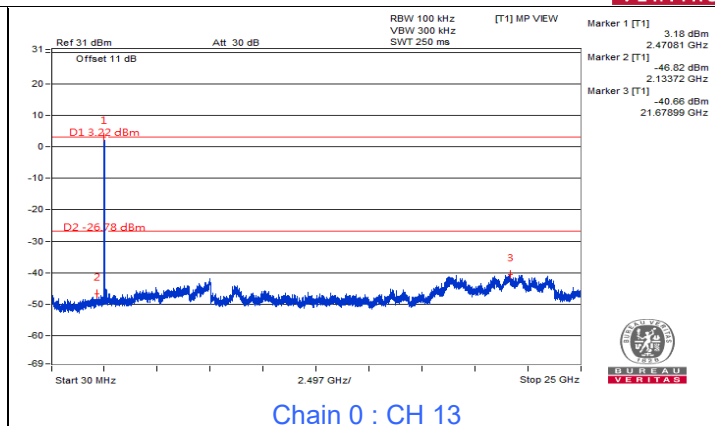


2TX  
802.11b

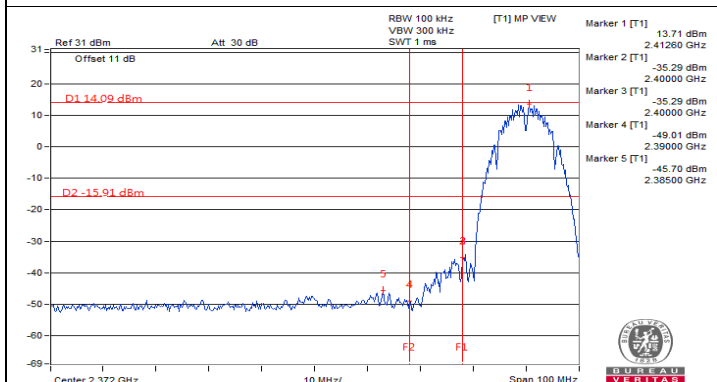




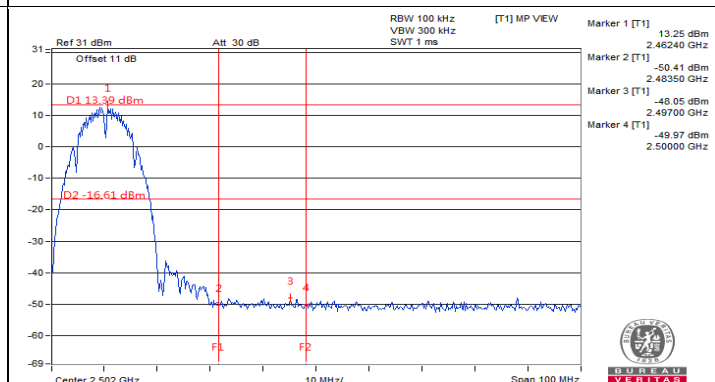
Chain 0 : CH 13



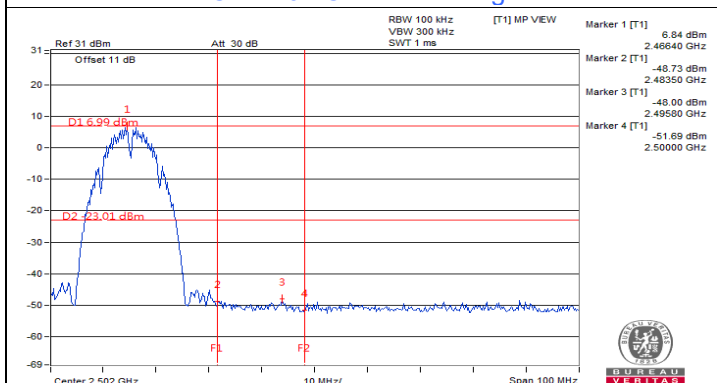
Chain 0 : CH 13



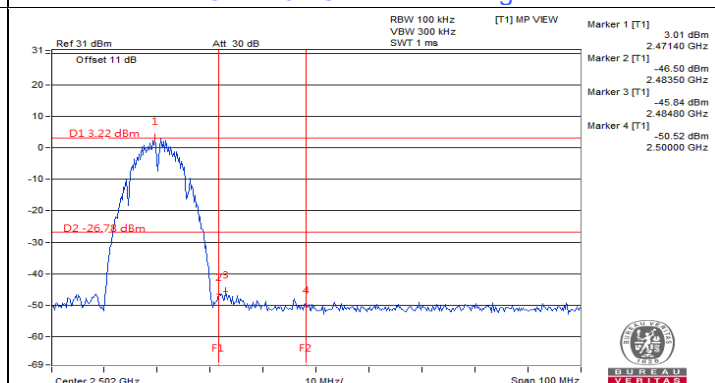
Chain 0 : CH 1 Band edge



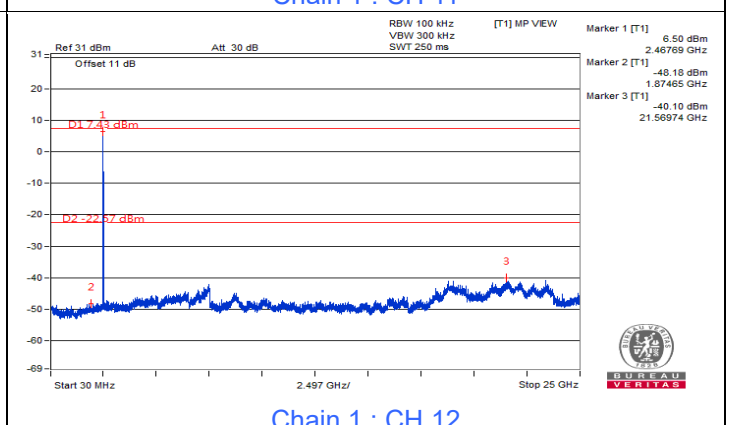
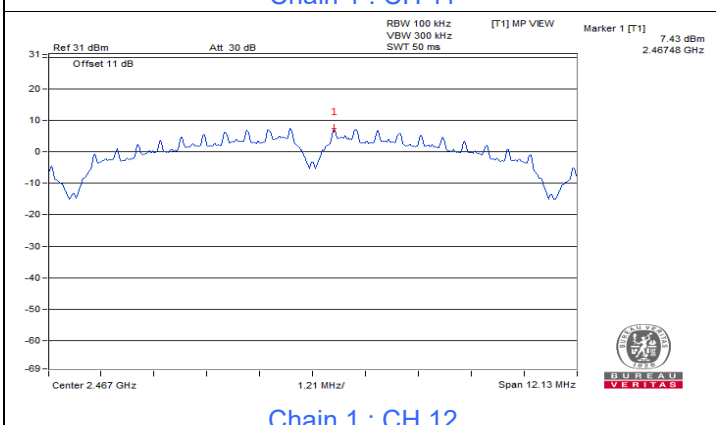
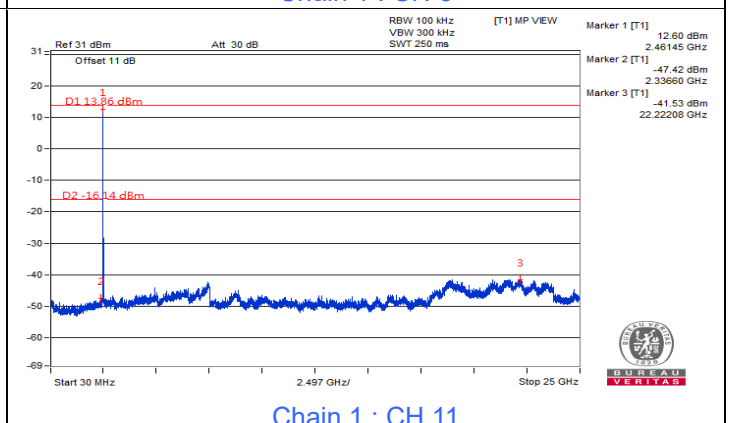
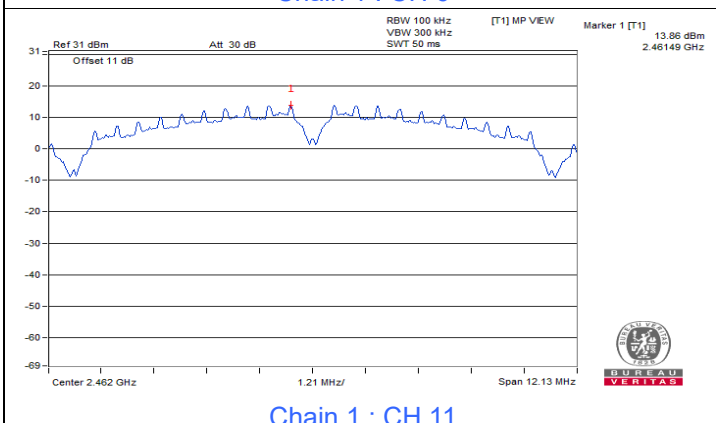
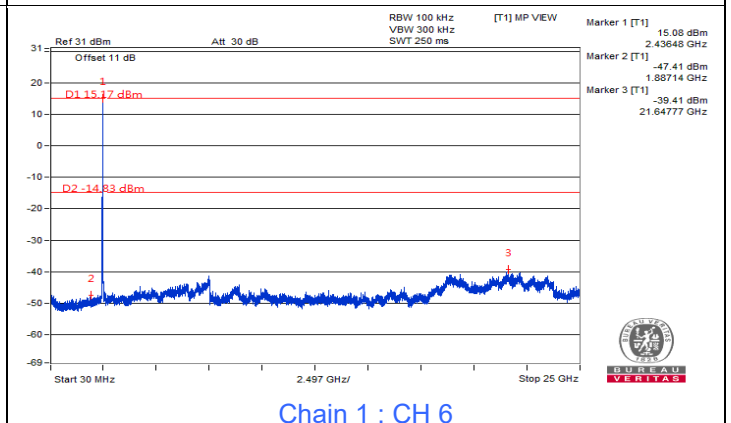
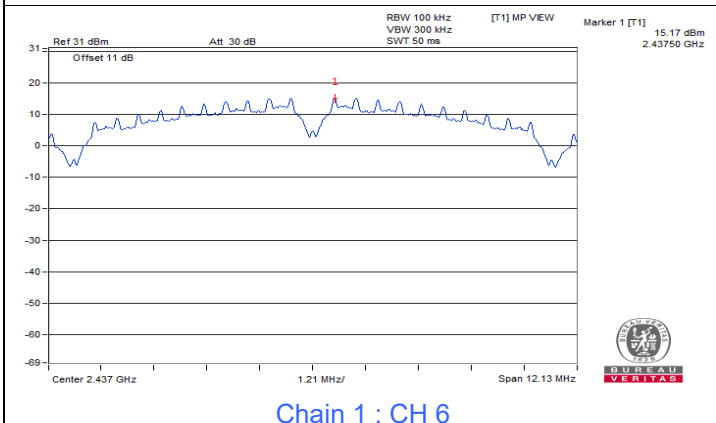
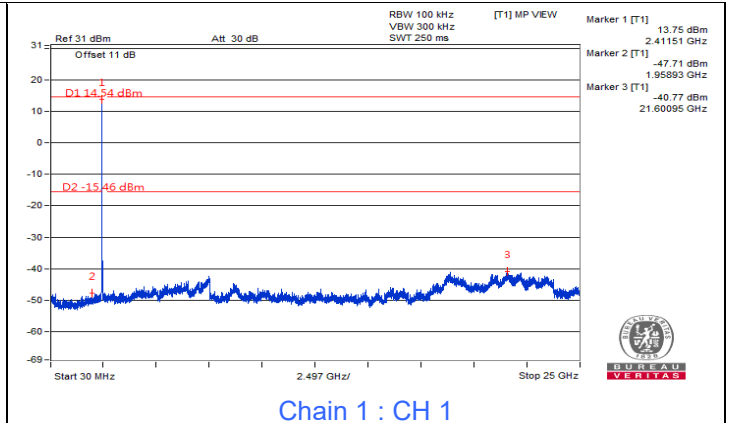
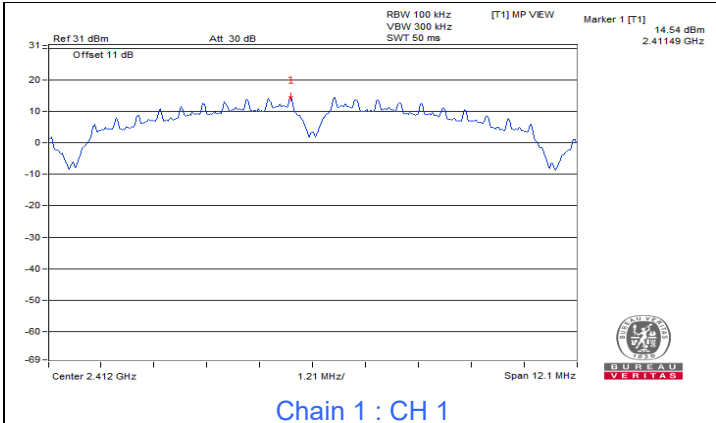
Chain 0 : CH 11 Band edge

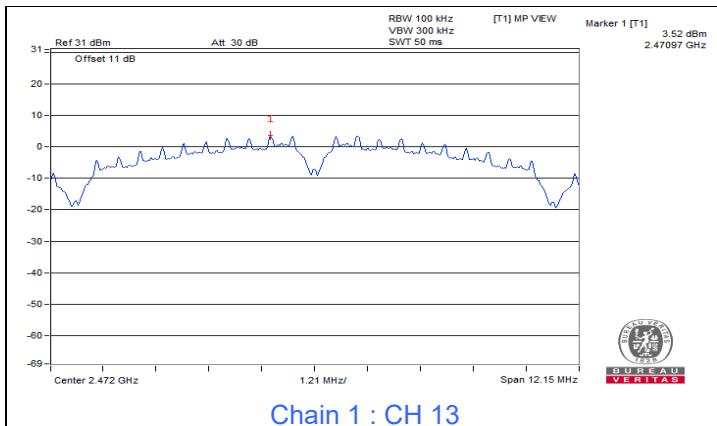


Chain 0 : CH 12 Band edge

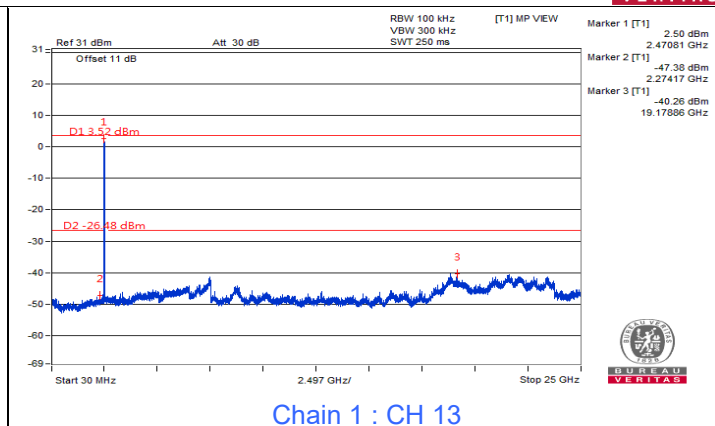


Chain 0 : CH 13 Band edge

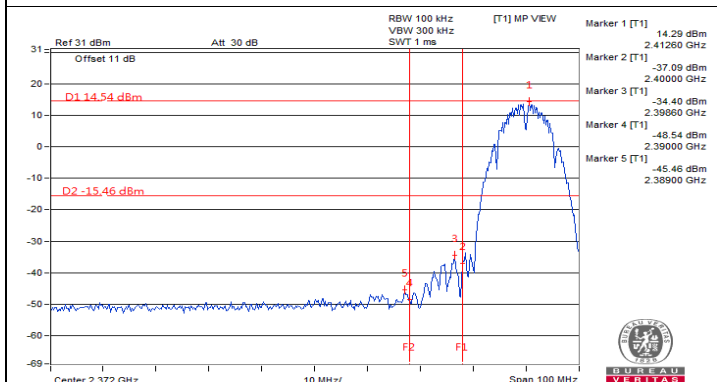




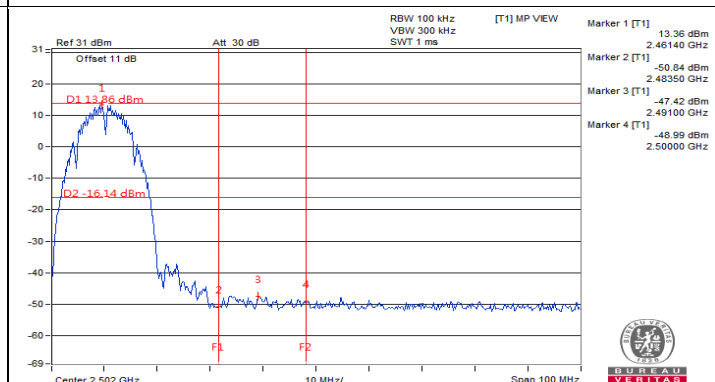
Chain 1 : CH 13



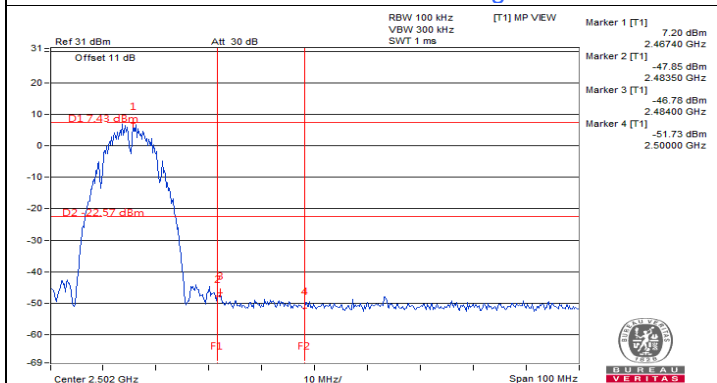
Chain 1 : CH 13



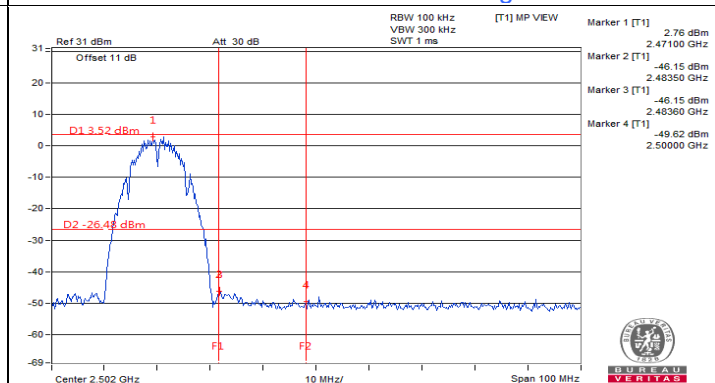
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge



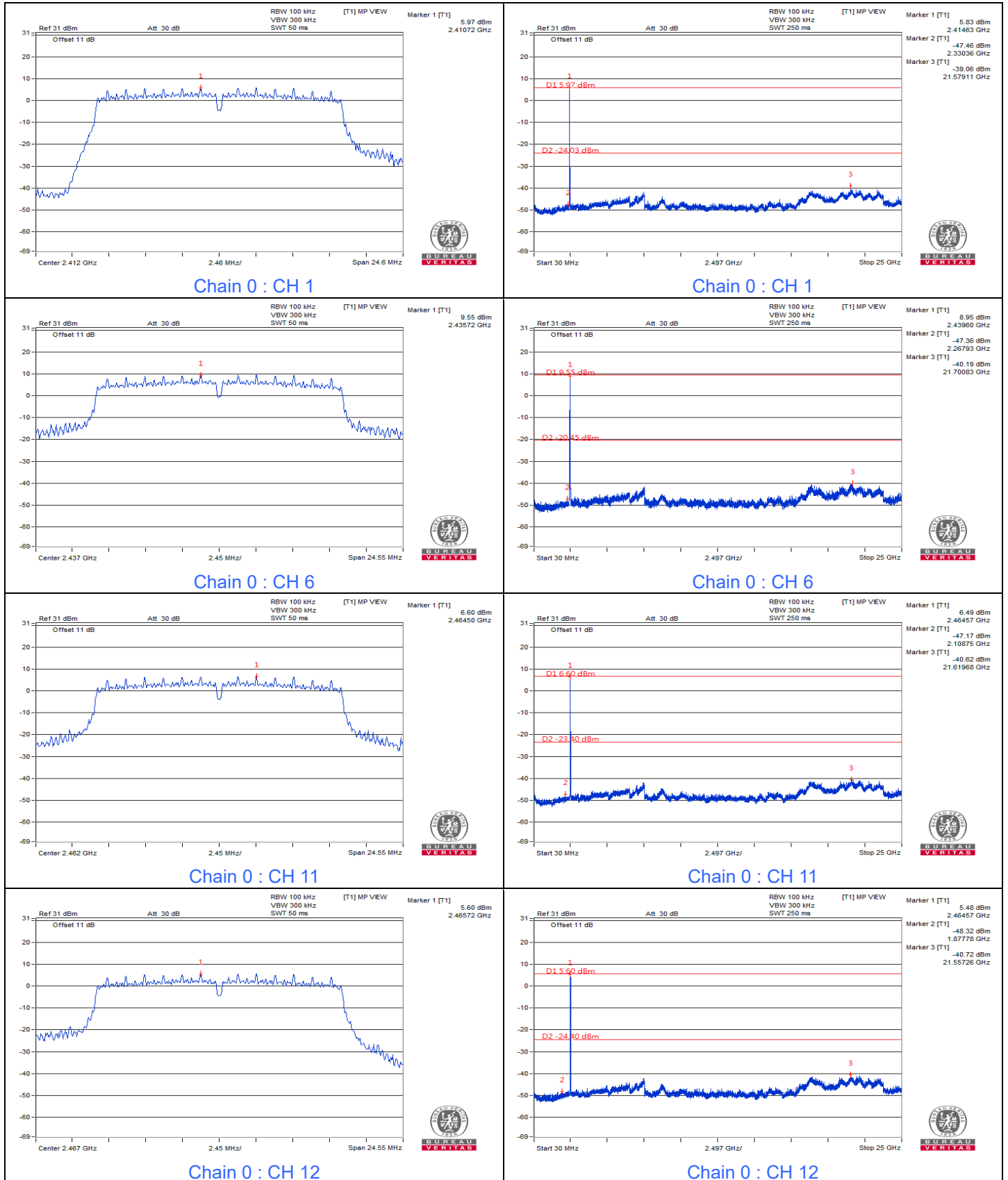
Chain 1 : CH 12 Band edge

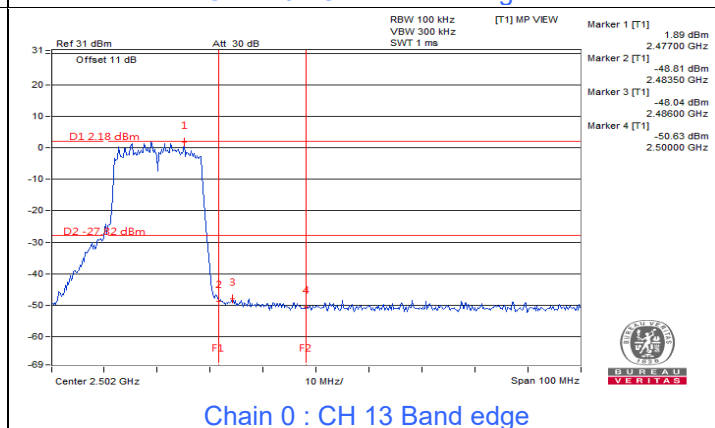
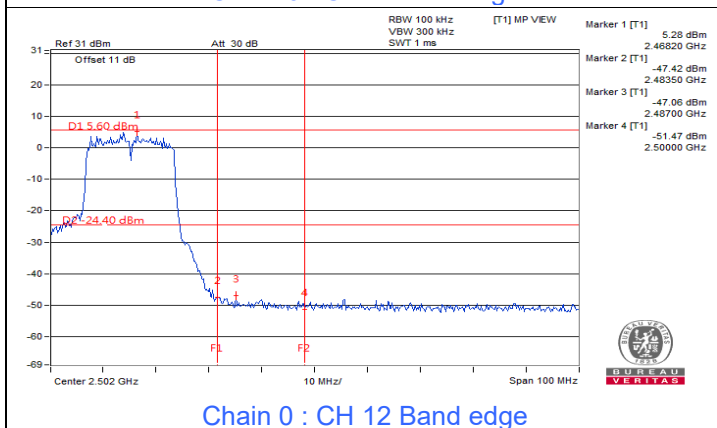
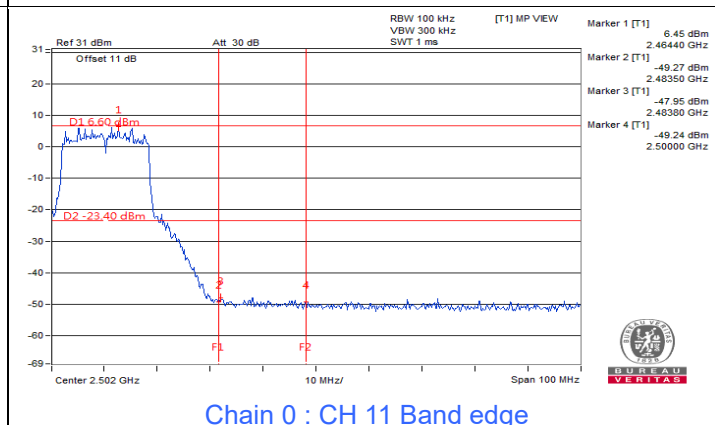
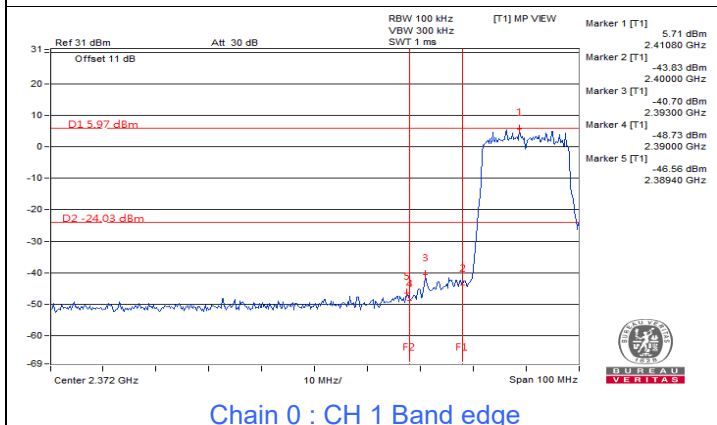
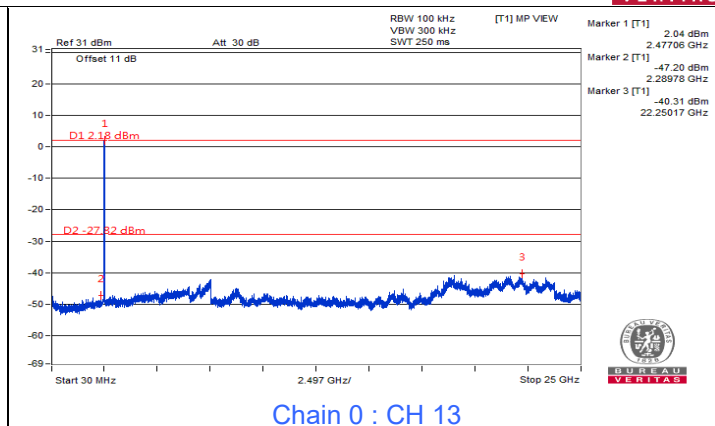
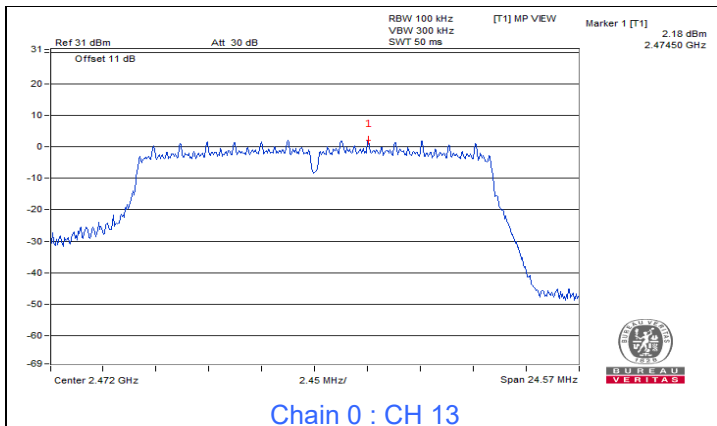


Chain 1 : CH 13 Band edge

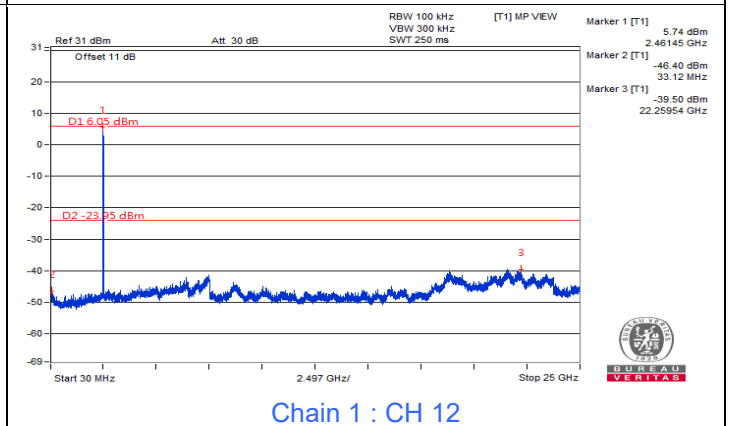
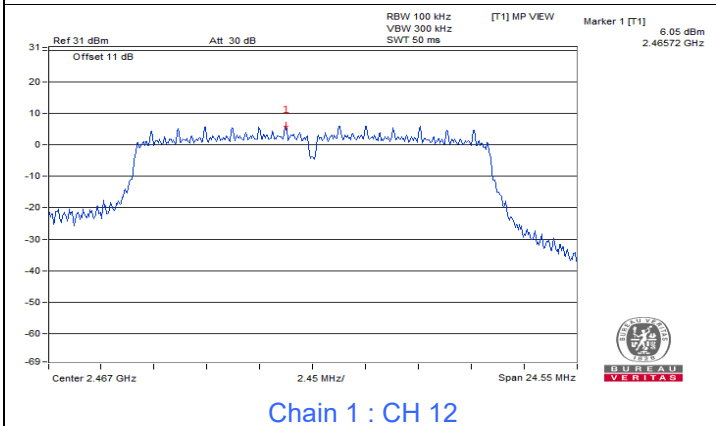
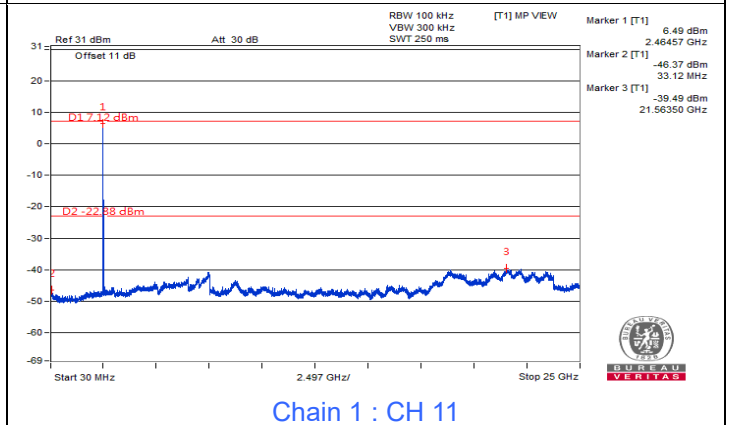
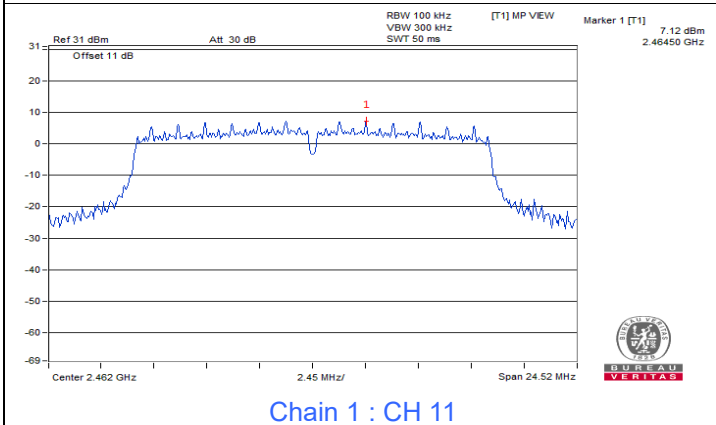
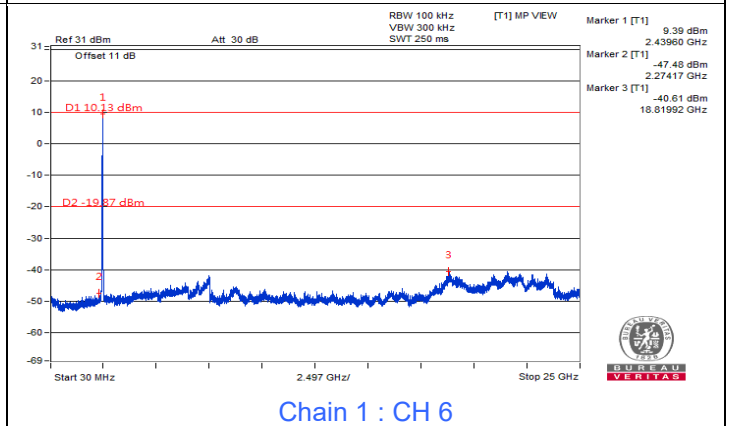
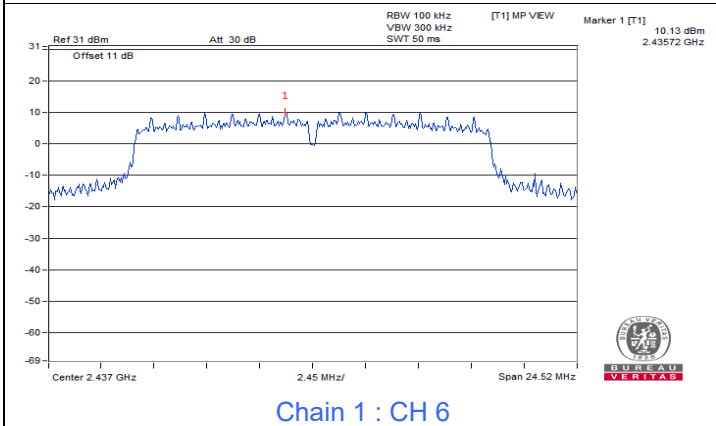
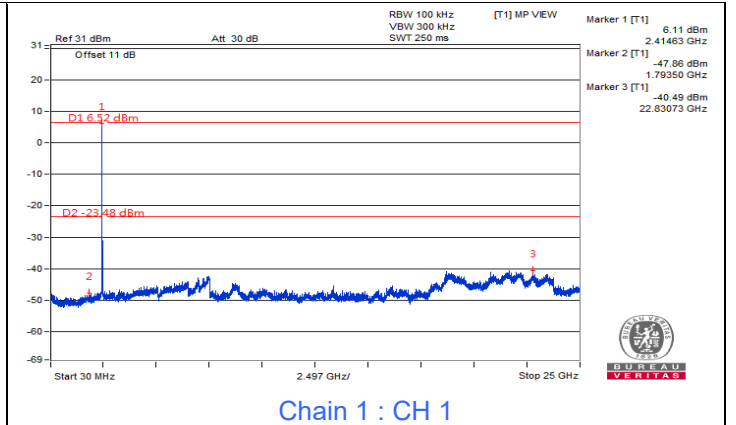
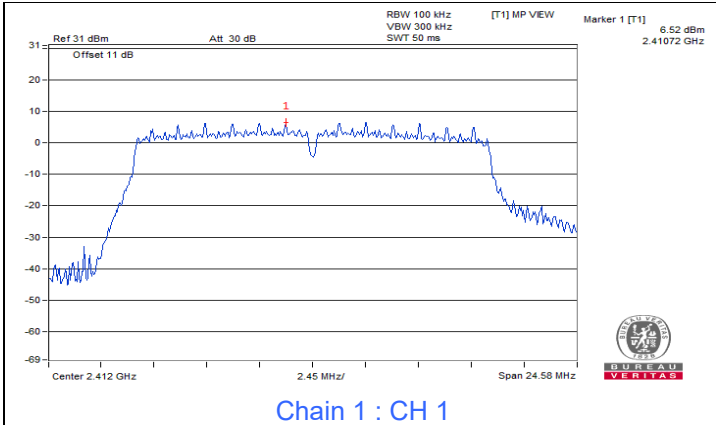


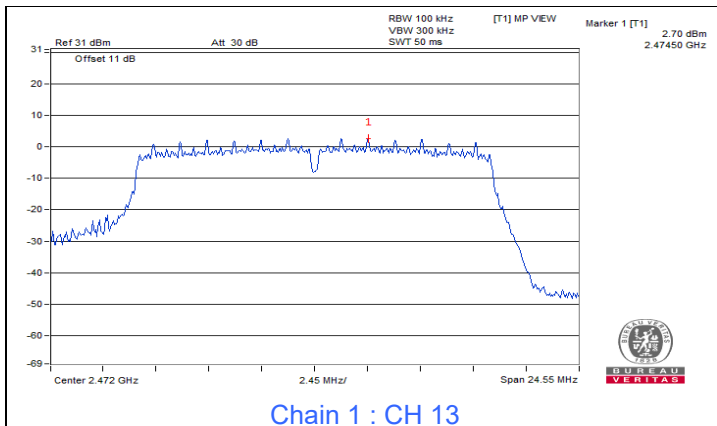
# 802.11g



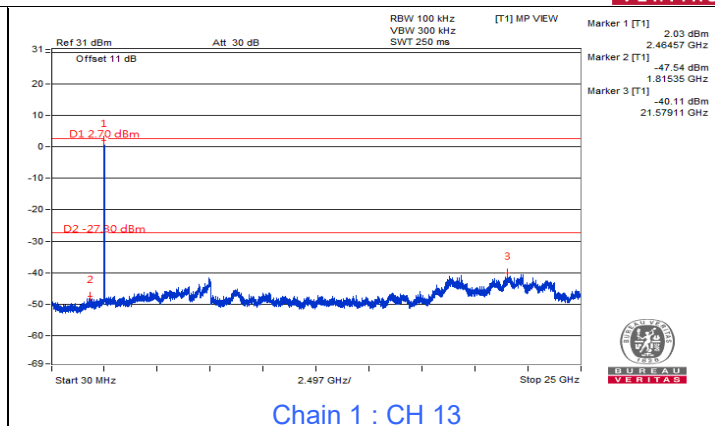




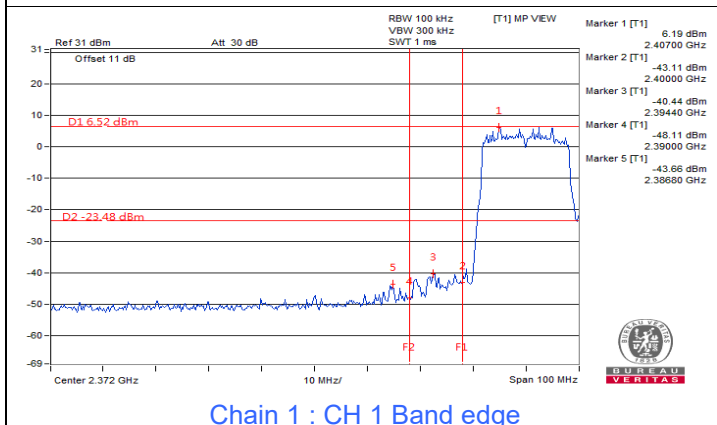




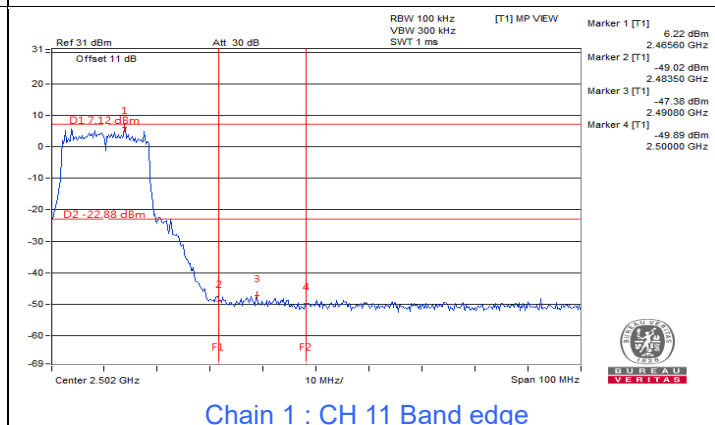
Chain 1 : CH 13



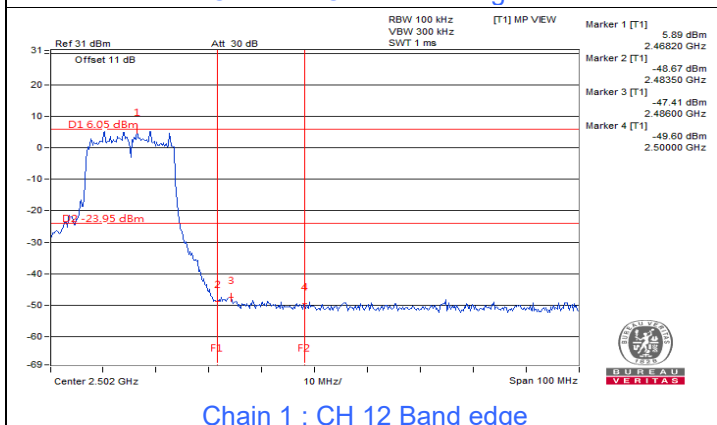
Chain 1 : CH 13



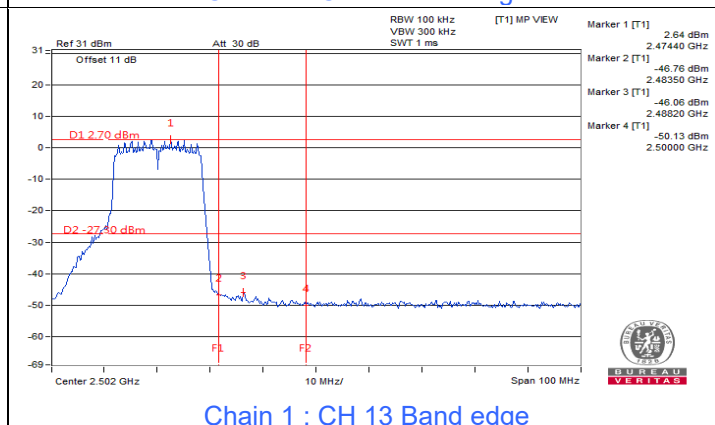
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge



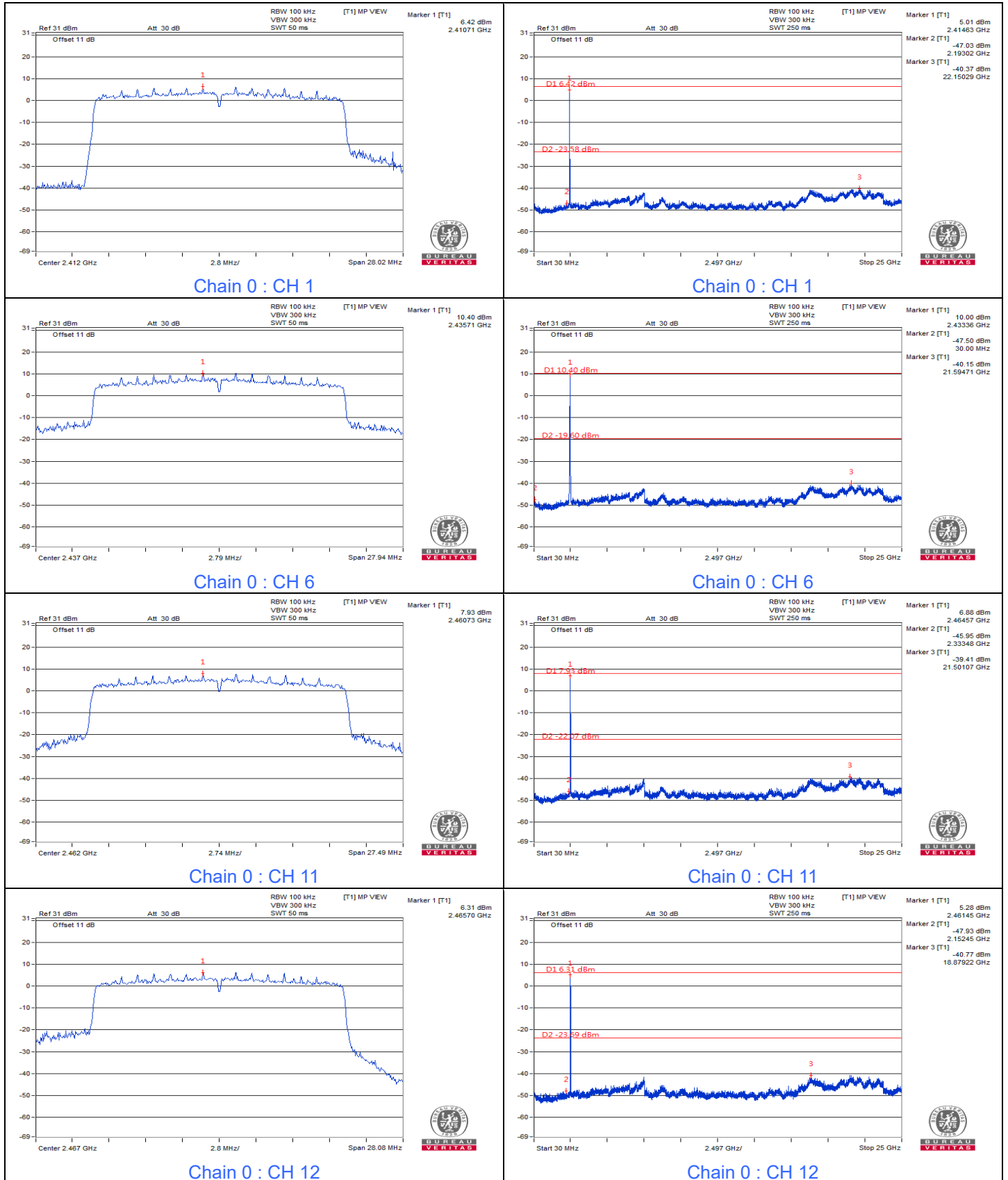
Chain 1 : CH 12 Band edge

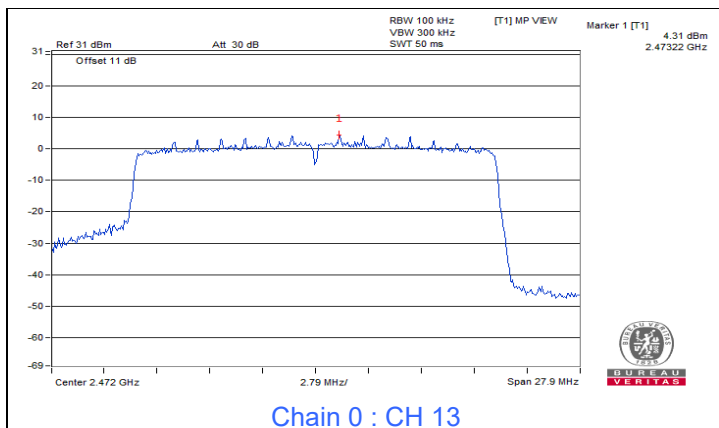


Chain 1 : CH 13 Band edge

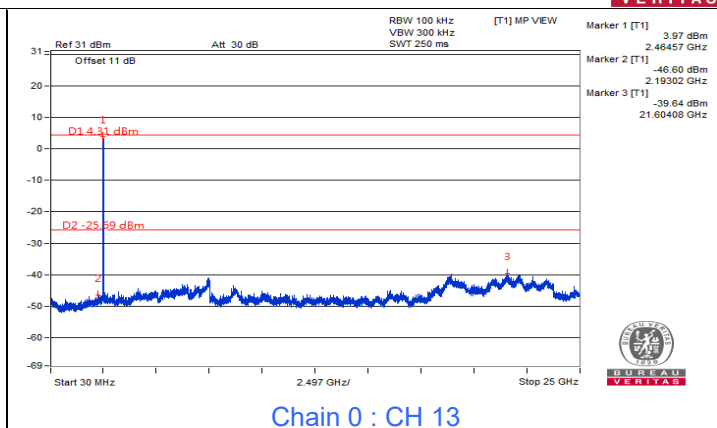


### 802.11be (EHT20)

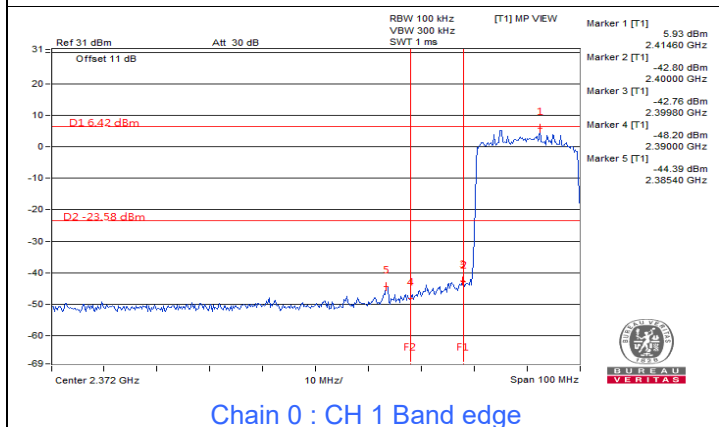




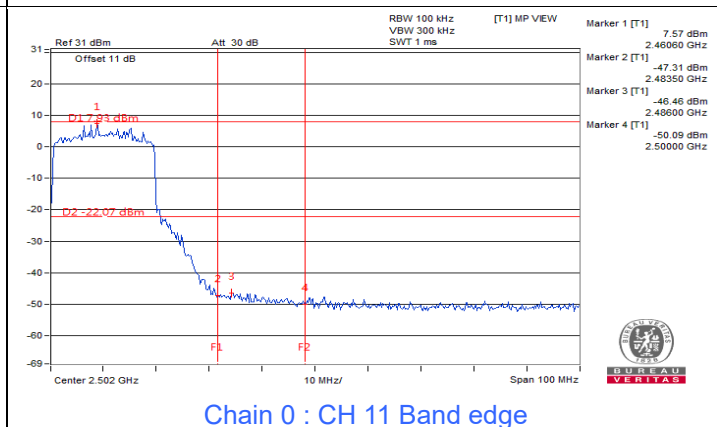
Chain 0 : CH 13



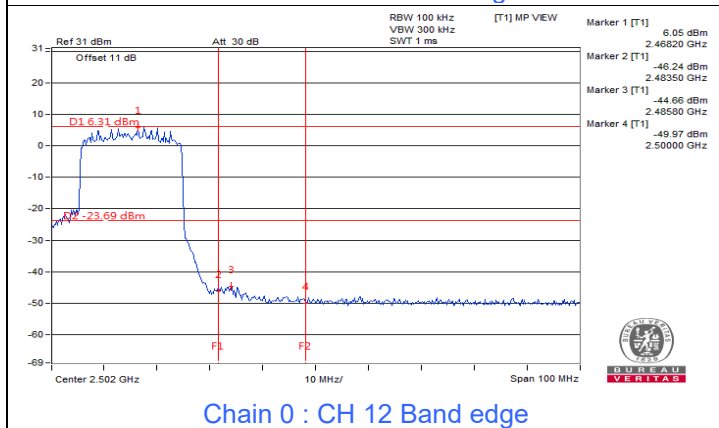
Chain 0 : CH 13



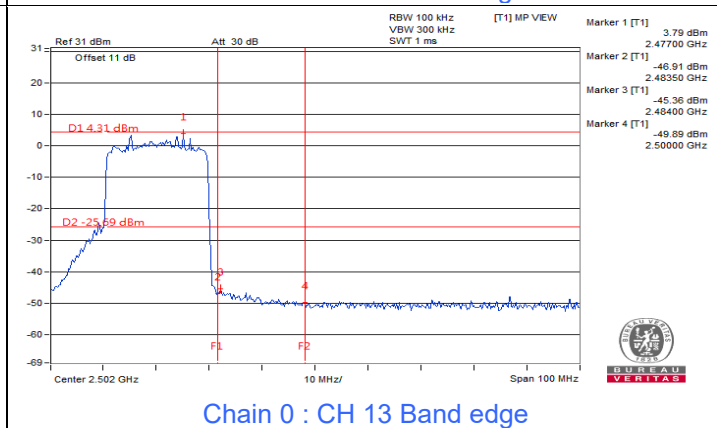
Chain 0 : CH 1 Band edge



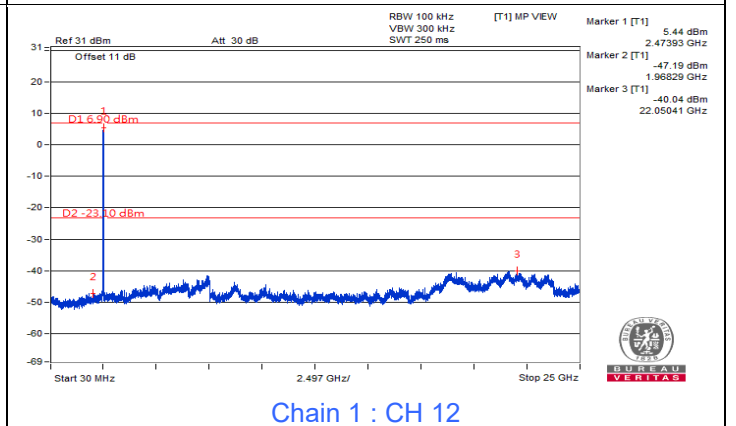
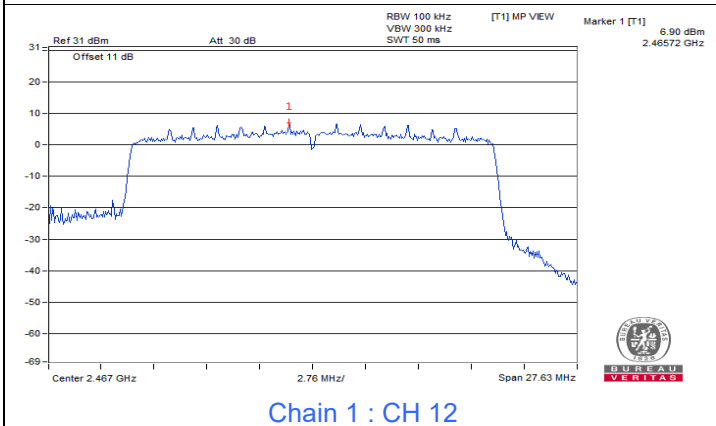
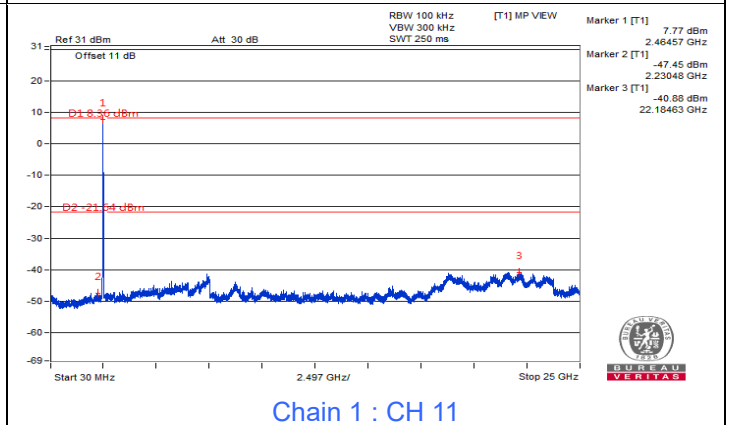
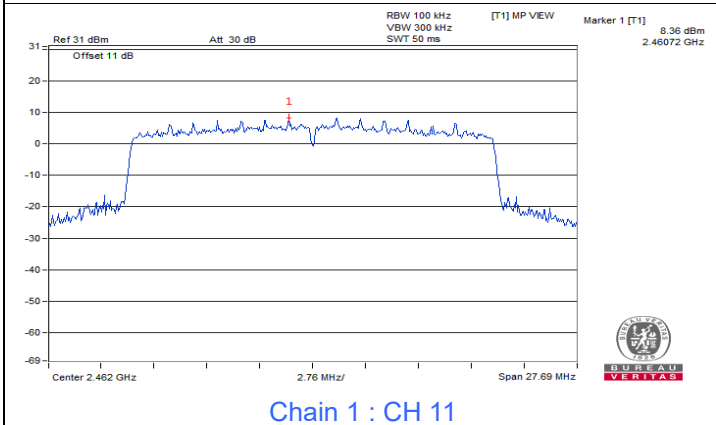
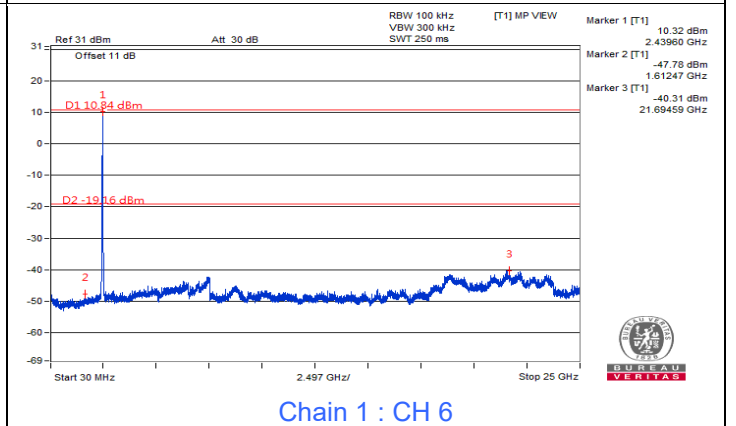
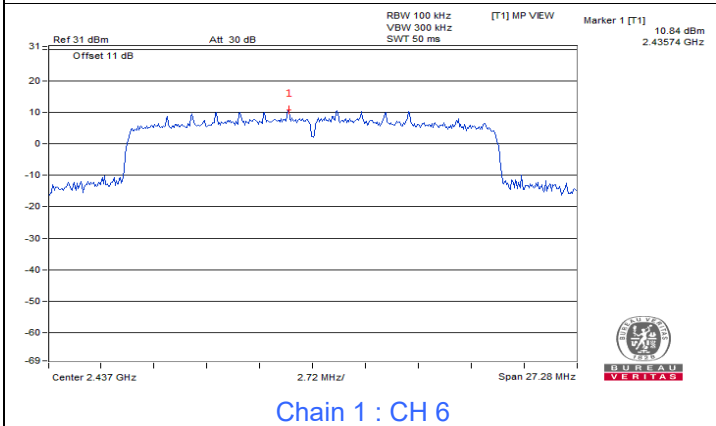
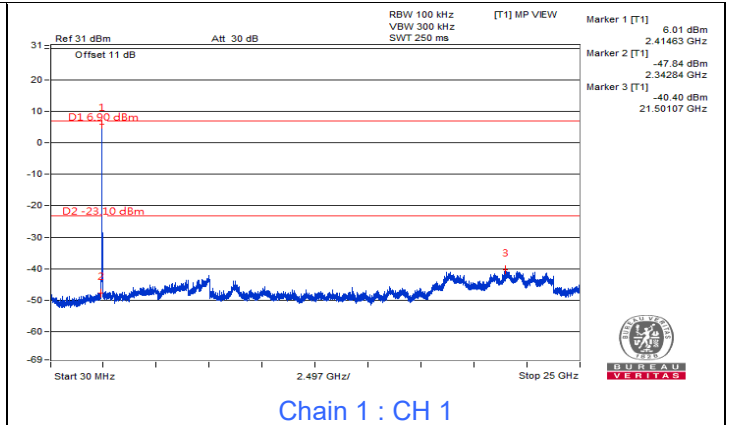
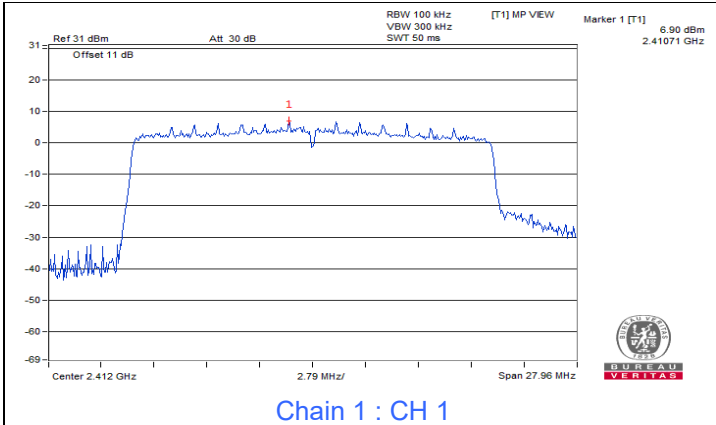
Chain 0 : CH 11 Band edge

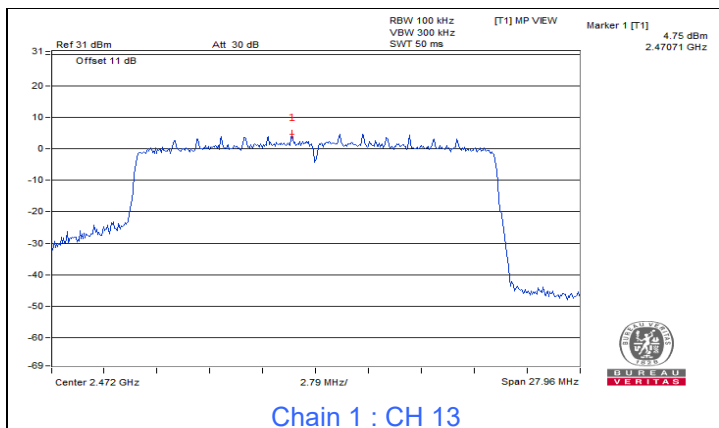


Chain 0 : CH 12 Band edge

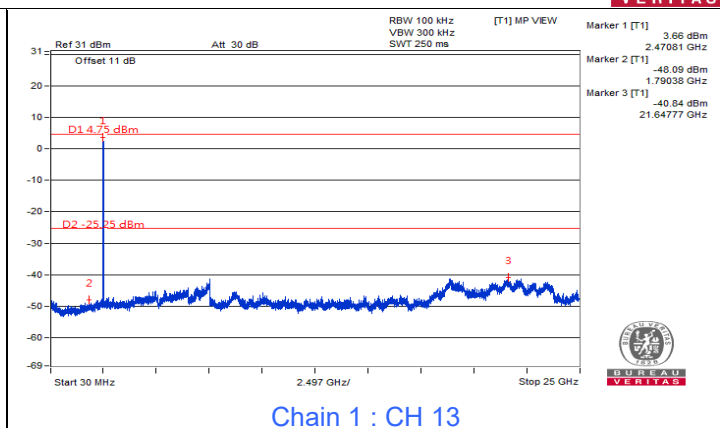


Chain 0 : CH 13 Band edge

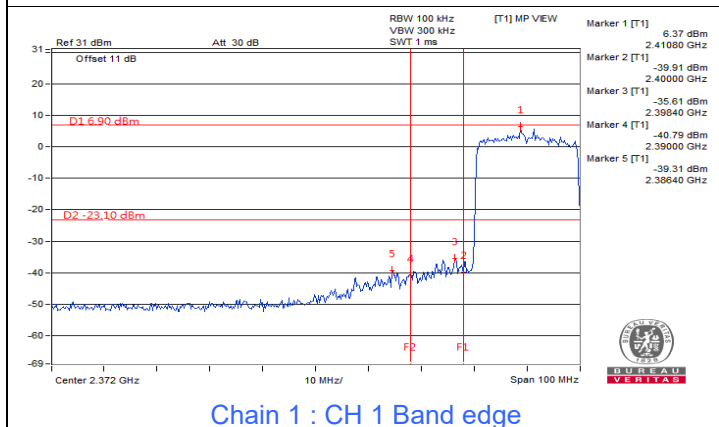




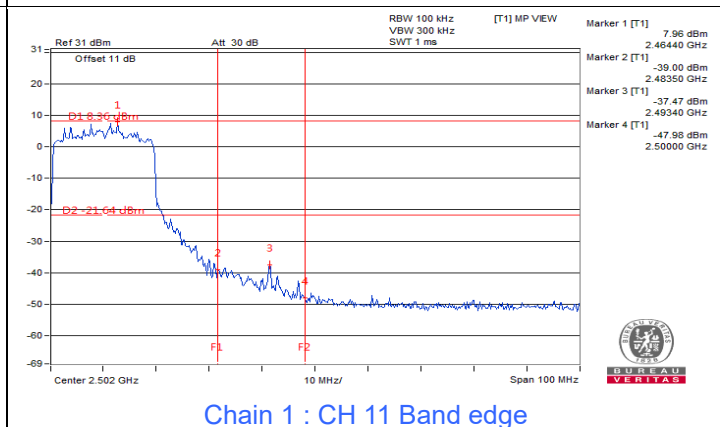
Chain 1 : CH 13



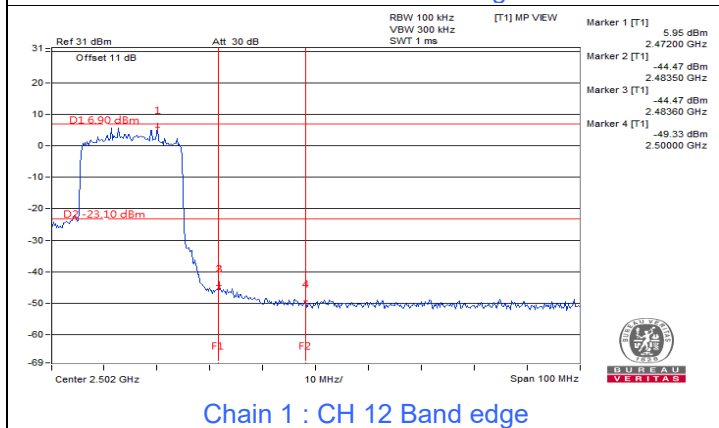
Chain 1 : CH 13



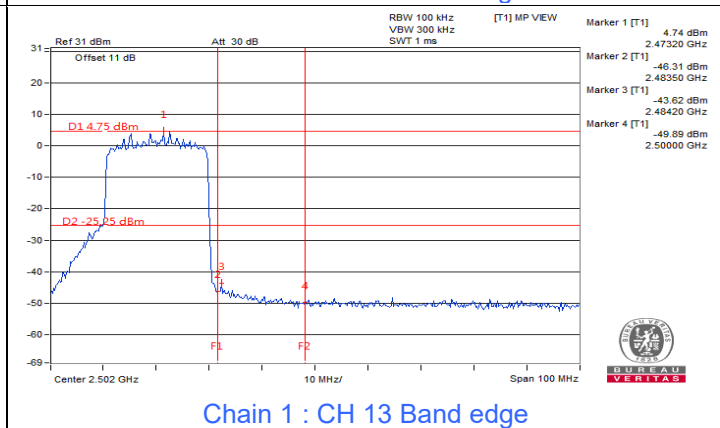
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge



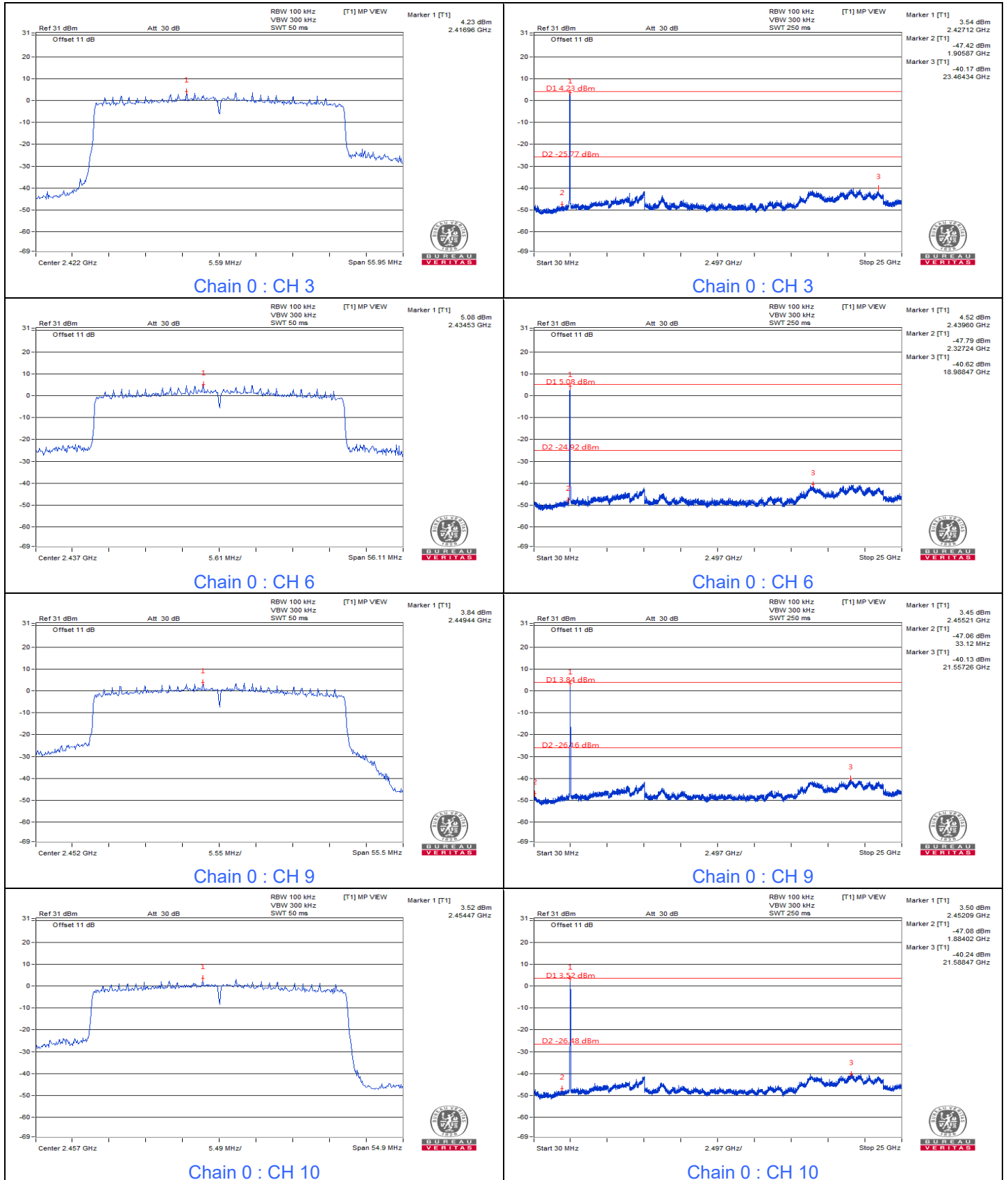
Chain 1 : CH 12 Band edge

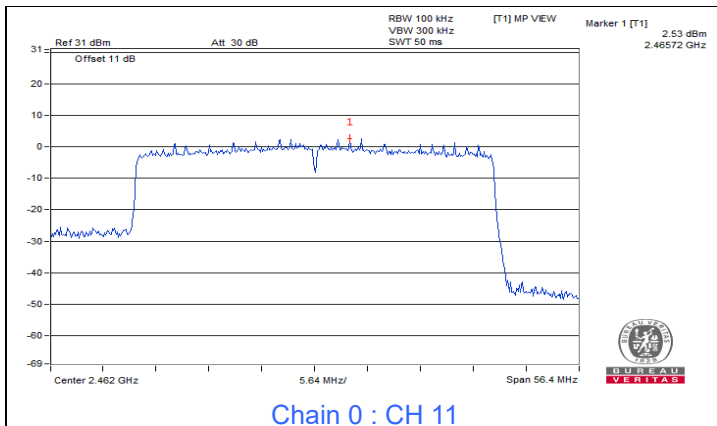


Chain 1 : CH 13 Band edge

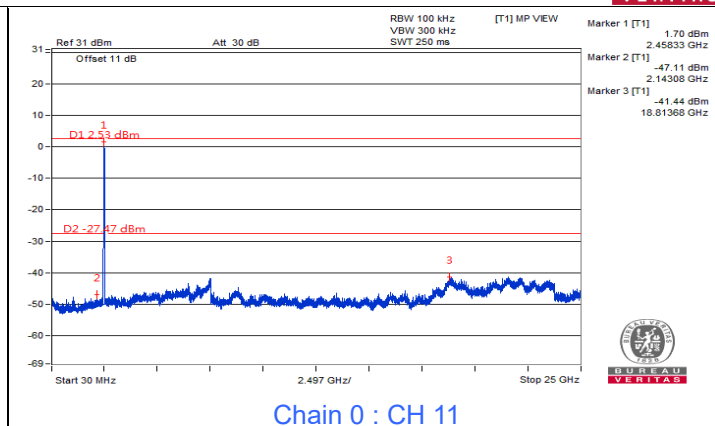


### 802.11be (EHT40)

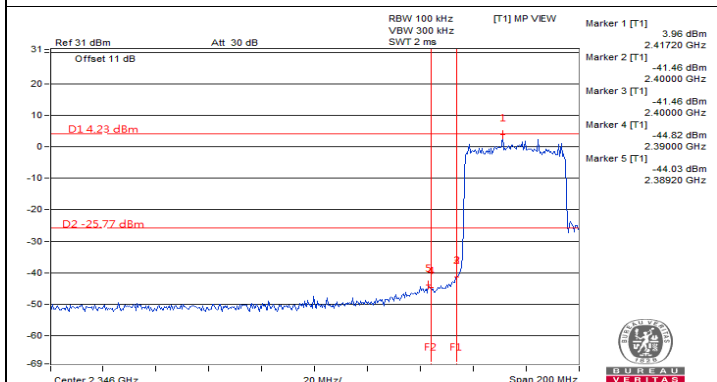




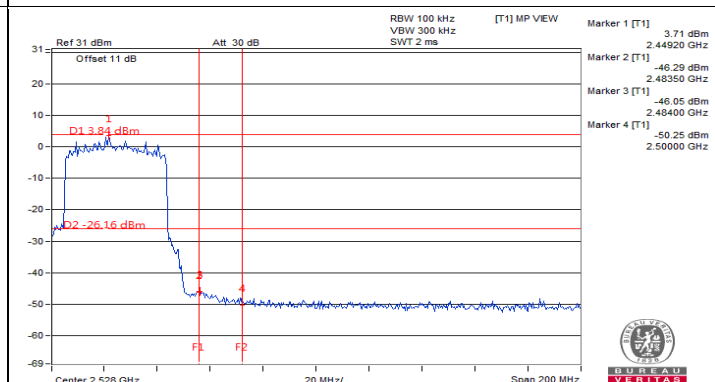
Chain 0 : CH 11



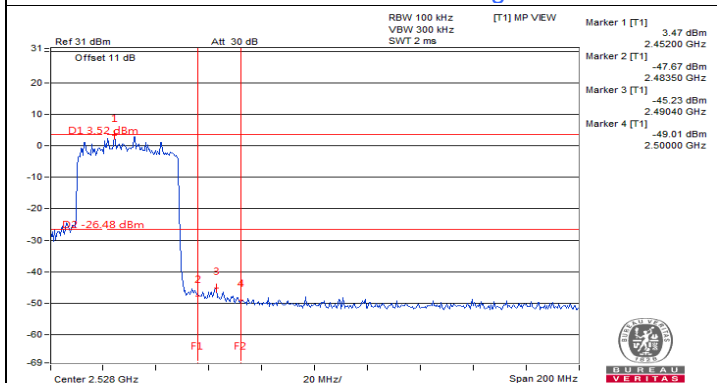
Chain 0 : CH 11



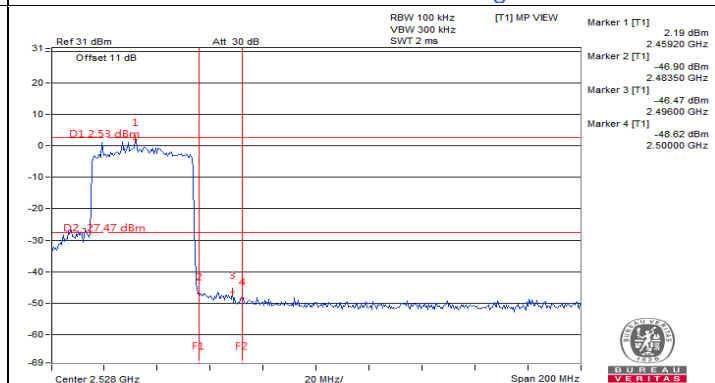
Chain 0 : CH 3 Band edge



Chain 0 : CH 9 Band edge

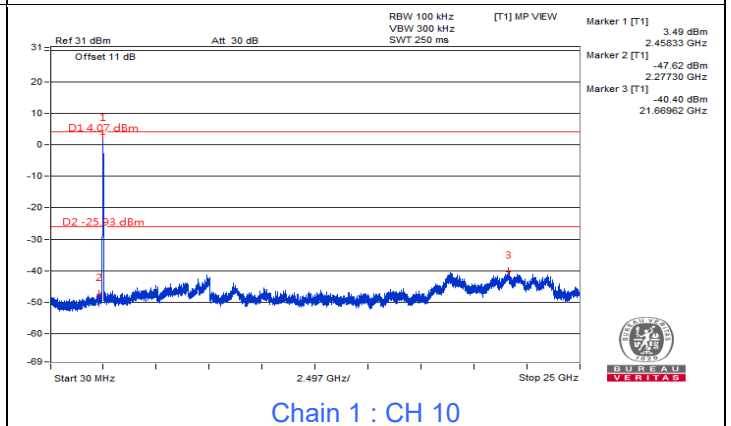
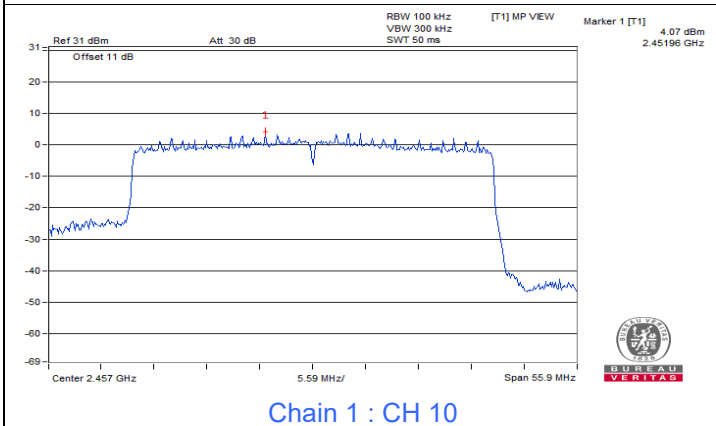
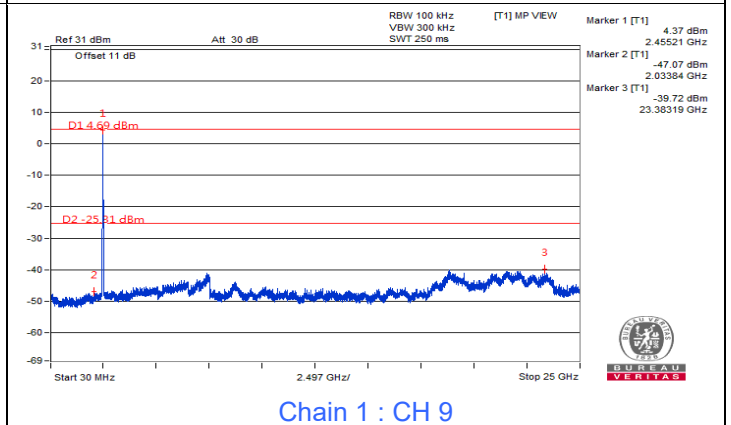
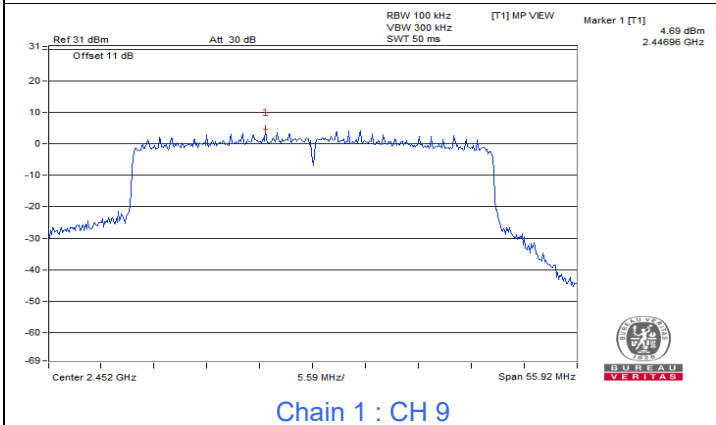
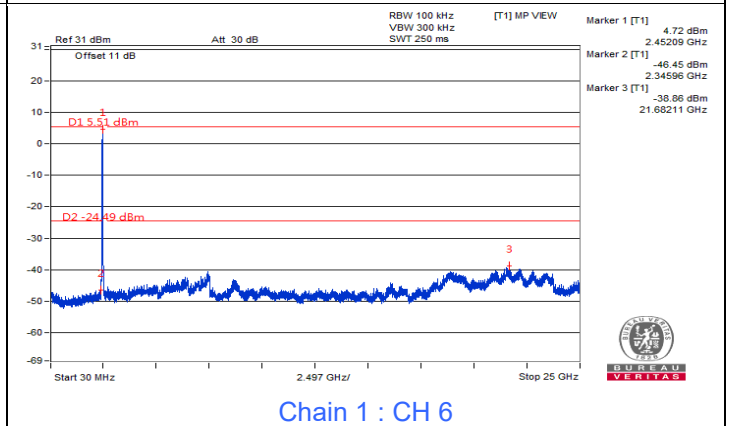
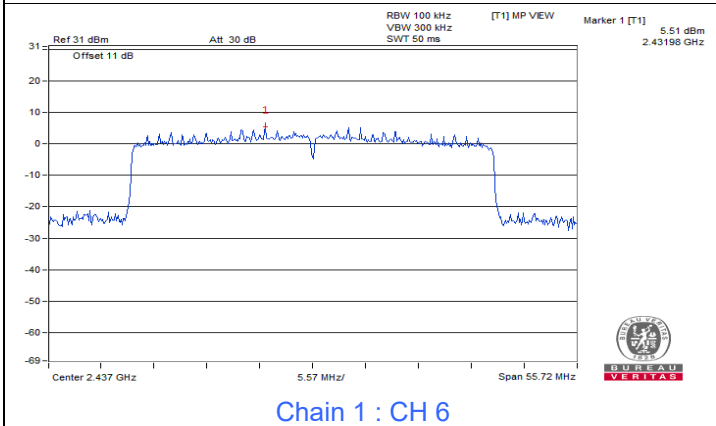
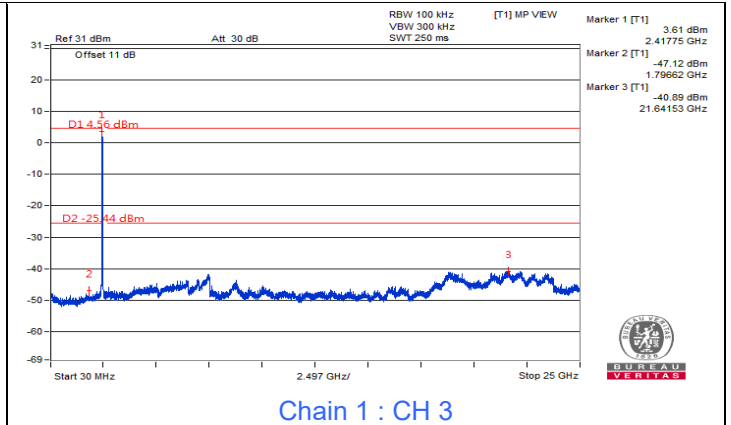
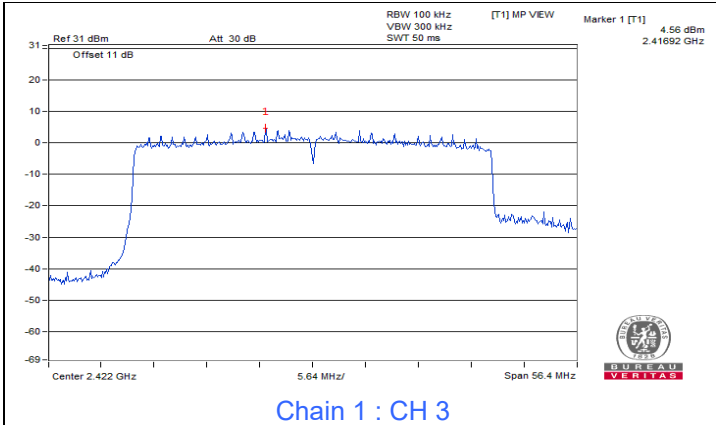


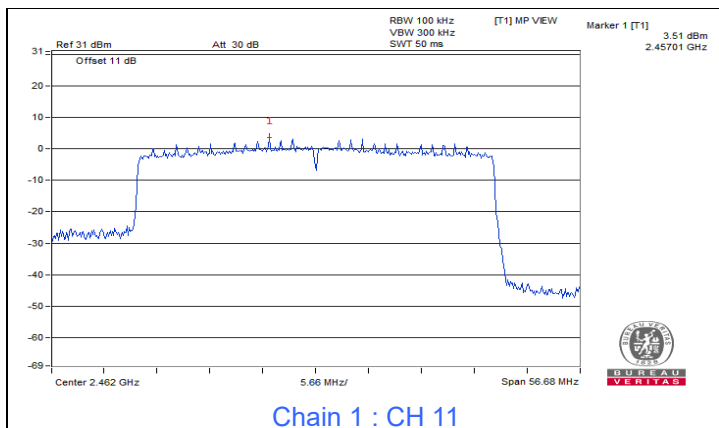
Chain 0 : CH 10 Band edge



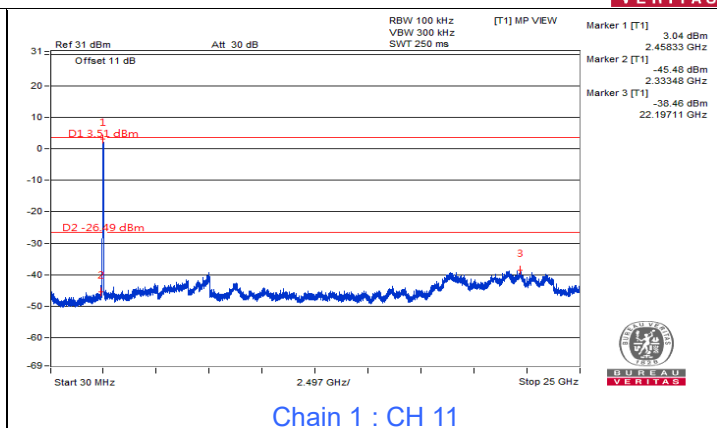
Chain 0 : CH 11 Band edge



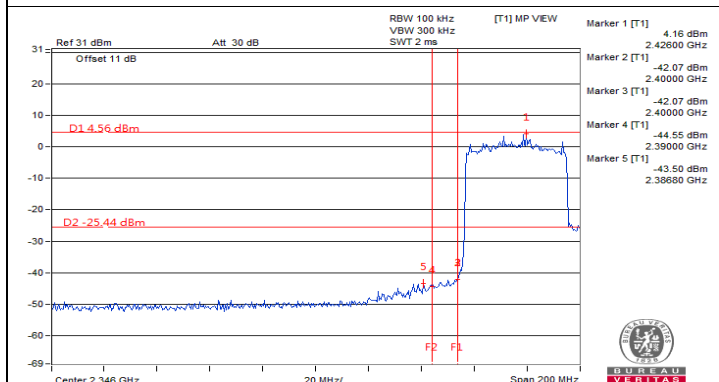




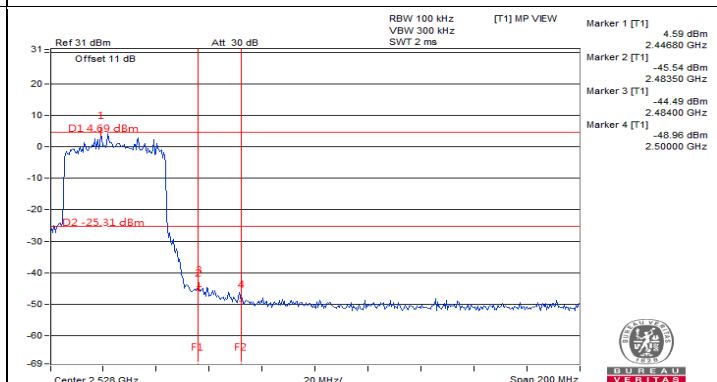
Chain 1 : CH 11



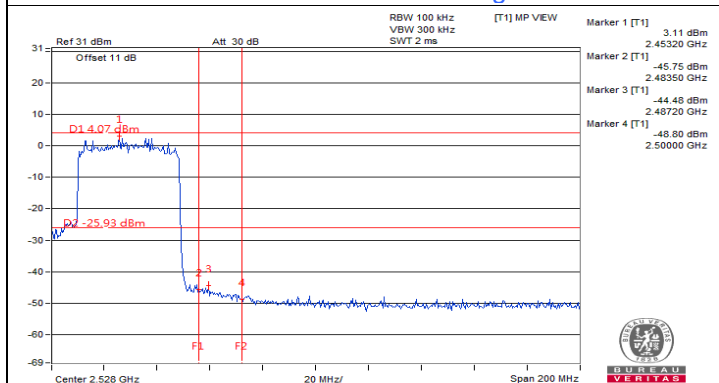
Chain 1 : CH 11



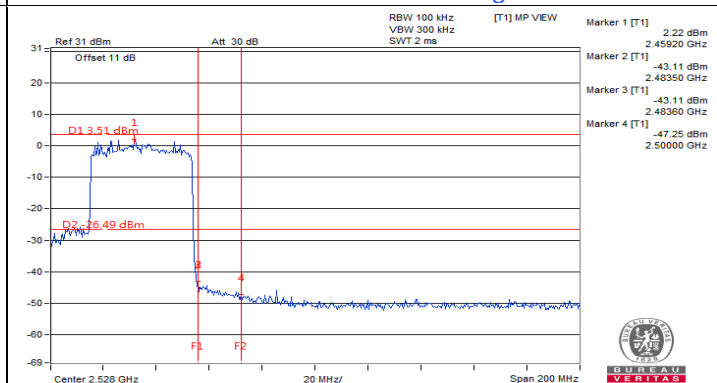
Chain 1 : CH 3 Band edge



Chain 1 : CH 9 Band edge



Chain 1 : CH 10 Band edge



Chain 1 : CH 11 Band edge

## 7.5 AC Power Conducted Emissions

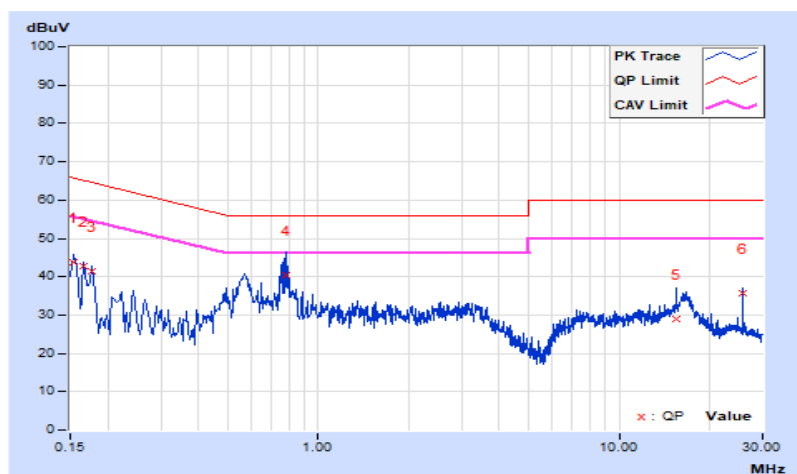
### 1TX

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15400	9.62	34.12	24.17	43.74	33.79	65.78	55.78	-22.04	-21.99
2	0.16600	9.63	33.16	21.84	42.79	31.47	65.16	55.16	-22.37	-23.69
3	0.17800	9.63	31.92	17.82	41.55	27.45	64.58	54.58	-23.03	-27.13
4	0.77800	9.68	30.71	16.77	40.39	26.45	56.00	46.00	-15.61	-19.55
5	15.49400	9.79	19.33	13.92	29.12	23.71	60.00	50.00	-30.88	-26.29
6	25.87400	9.75	26.07	25.41	35.82	35.16	60.00	50.00	-24.18	-14.84

#### 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

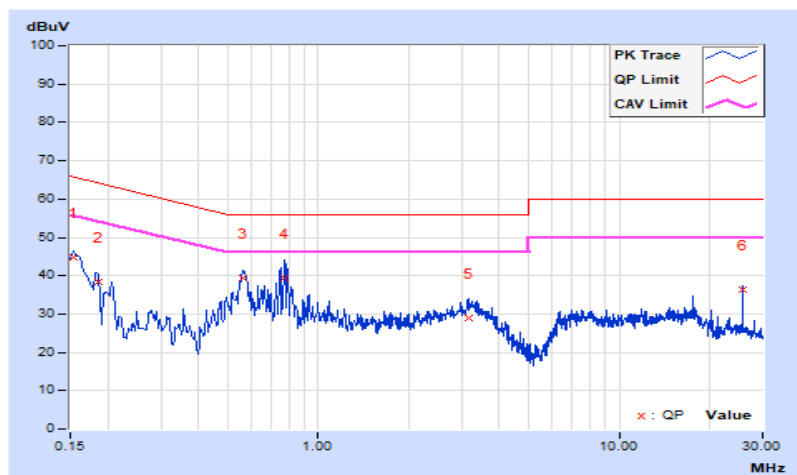


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15400	9.62	35.21	26.16	44.83	35.78	65.78	55.78	-20.95	-20.00
2	0.18600	9.63	28.77	17.25	38.40	26.88	64.21	54.21	-25.81	-27.33
3	0.56200	9.68	29.68	21.42	39.36	31.10	56.00	46.00	-16.64	-14.90
4	0.77400	9.69	29.78	16.38	39.47	26.07	56.00	46.00	-16.53	-19.93
5	3.17000	9.74	19.19	14.28	28.93	24.02	56.00	46.00	-27.07	-21.98
6	25.87400	9.88	26.34	25.76	36.22	35.64	60.00	50.00	-23.78	-14.36

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



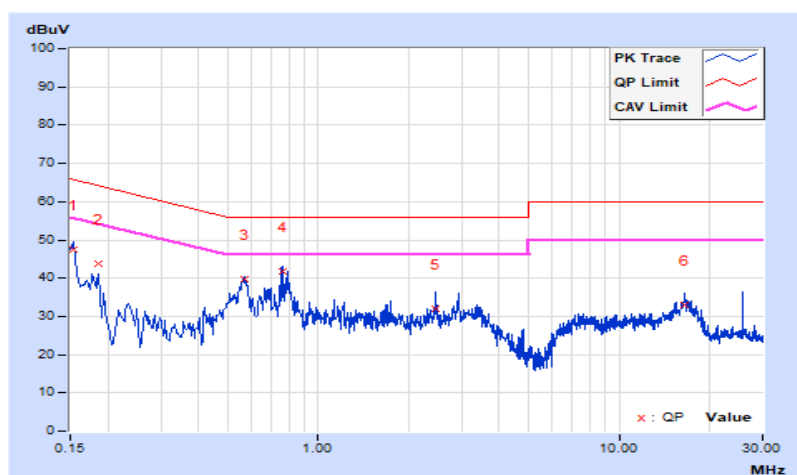
## 2TX

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	0.15400	9.62	37.99	25.15	47.61	34.77	65.78	55.78	-18.17	-21.01
2	0.18600	9.63	34.08	16.43	43.71	26.06	64.21	54.21	-20.50	-28.15
3	0.56593	9.68	29.97	21.19	39.65	30.87	56.00	46.00	-16.35	-15.13
4	0.76600	9.68	32.01	16.68	41.69	26.36	56.00	46.00	-14.31	-19.64
5	2.46600	9.72	22.18	13.70	31.90	23.42	56.00	46.00	-24.10	-22.58
6	16.59400	9.78	23.14	15.54	32.92	25.32	60.00	50.00	-27.08	-24.68

## 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

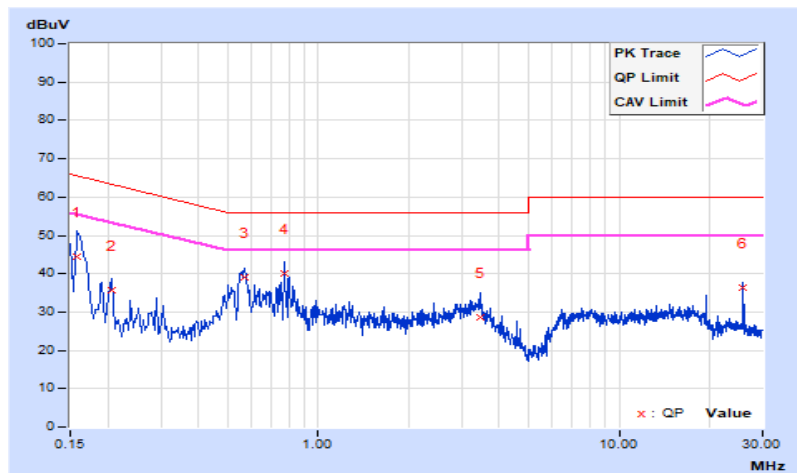


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.62	34.98	22.43	44.60	32.05	65.57	55.57	-20.97	-23.52
2	0.20577	9.64	26.06	13.18	35.70	22.82	63.37	53.37	-27.67	-30.55
<b>3</b>	<b>0.57000</b>	<b>9.68</b>	<b>29.46</b>	<b>22.14</b>	<b>39.14</b>	<b>31.82</b>	<b>56.00</b>	<b>46.00</b>	<b>-16.86</b>	<b>-14.18</b>
4	0.77000	9.69	30.45	16.84	40.14	26.53	56.00	46.00	-15.86	-19.47
5	3.43800	9.74	18.92	13.97	28.66	23.71	56.00	46.00	-27.34	-22.29
6	25.87400	9.88	26.41	25.78	36.29	35.66	60.00	50.00	-23.71	-14.34

Remarks:

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



## 7.6 Unwanted Emissions below 1 GHz

### 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 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 f = 30 – 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

**For Conducted measurement:**

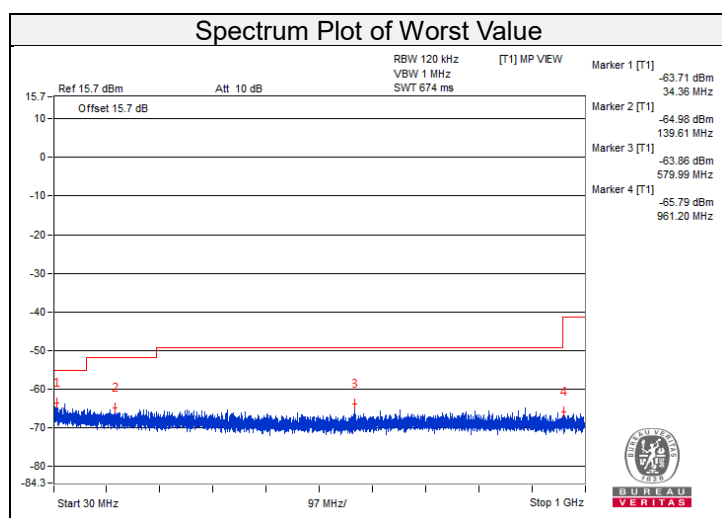
1TX

802.11b\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	34.36	34.73	40	-5.27	-63.71	3.18	-60.53
2	139.61	33.46	43.5	-10.04	-64.98	3.18	-61.80
3	345.61	33.04	46	-12.96	-65.4	3.18	-62.22
4	579.99	34.58	46	-11.42	-63.86	3.18	-60.68
5	662.92	33.05	46	-12.95	-65.39	3.18	-62.21
6	890.75	33.67	46	-12.33	-64.77	3.18	-61.59

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



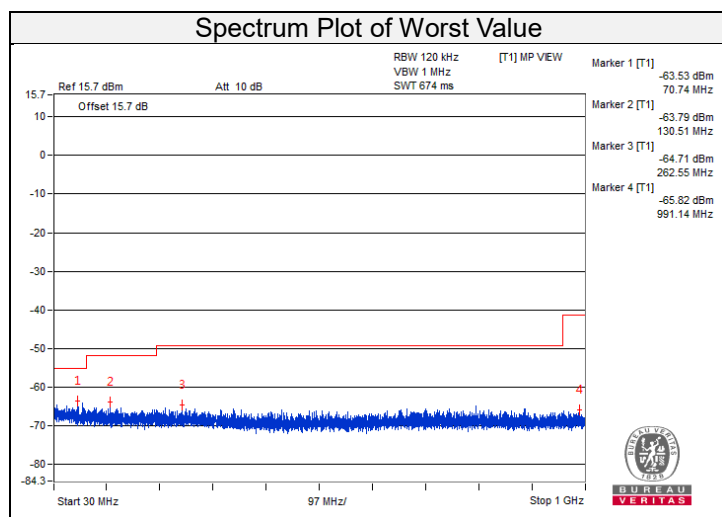


### 802.11be (EHT20) 26-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	70.74	34.91	40	-5.09	-63.53	3.18	-60.35
2	130.51	34.65	43.5	-8.85	-63.79	3.18	-60.61
3	262.55	33.73	46	-12.27	-64.71	3.18	-61.53
4	445.64	32.44	46	-13.56	-66	3.18	-62.82
5	674.32	32.74	46	-13.26	-65.7	3.18	-62.52
6	801.15	33.47	46	-12.53	-64.97	3.18	-61.79

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

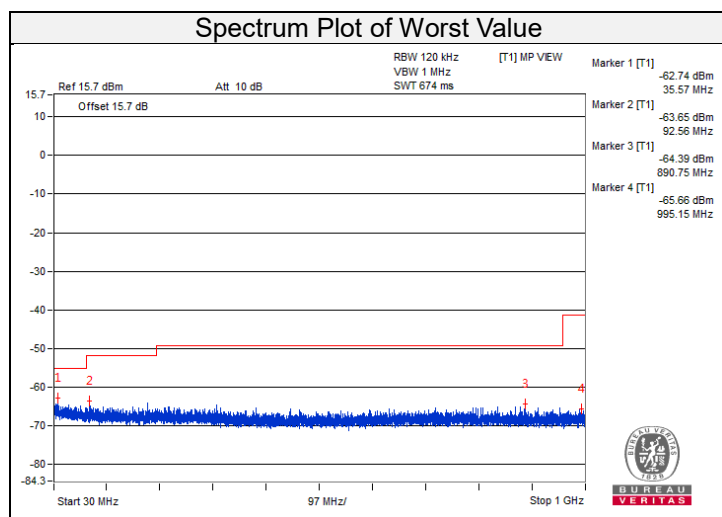


### 802.11be (EHT20) 52-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	35.57	35.7	40	-4.3	-62.74	3.18	-59.56
2	92.56	34.79	43.5	-8.71	-63.65	3.18	-60.47
3	325.48	33.75	46	-12.25	-64.69	3.18	-61.51
4	460.92	32.89	46	-13.11	-65.55	3.18	-62.37
5	726.82	33.12	46	-12.88	-65.32	3.18	-62.14
6	890.75	34.05	46	-11.95	-64.39	3.18	-61.21

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

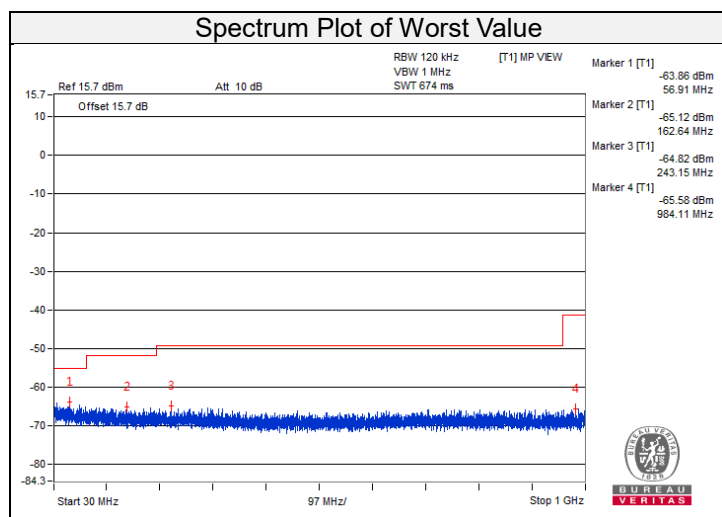


802.11be (EHT20) 106-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	56.91	34.58	40	-5.42	-63.86	3.18	-60.68
2	162.64	33.32	43.5	-10.18	-65.12	3.18	-61.94
3	243.15	33.62	46	-12.38	-64.82	3.18	-61.64
4	474.26	32.34	46	-13.66	-66.1	3.18	-62.92
5	761.38	32.65	46	-13.35	-65.79	3.18	-62.61
6	984.11	32.86	54	-21.14	-65.58	3.18	-62.40

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

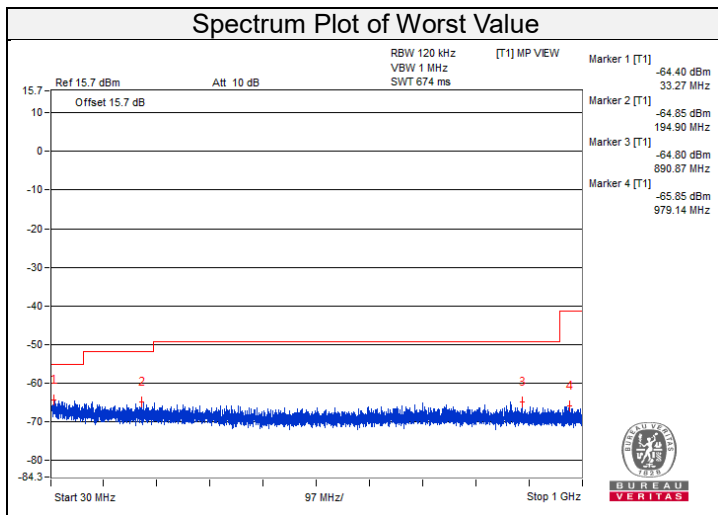


802.11be (EHT20) 52+26-tone MRU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	33.27	34.04	40	-5.96	-64.4	3.18	-61.22
2	194.9	33.59	43.5	-9.91	-64.85	3.18	-61.67
3	217.81	33.27	46	-12.73	-65.17	3.18	-61.99
4	516.09	32.08	46	-13.92	-66.36	3.18	-63.18
5	709.12	33.32	46	-12.68	-65.12	3.18	-61.94
6	890.87	33.64	46	-12.36	-64.8	3.18	-61.62

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

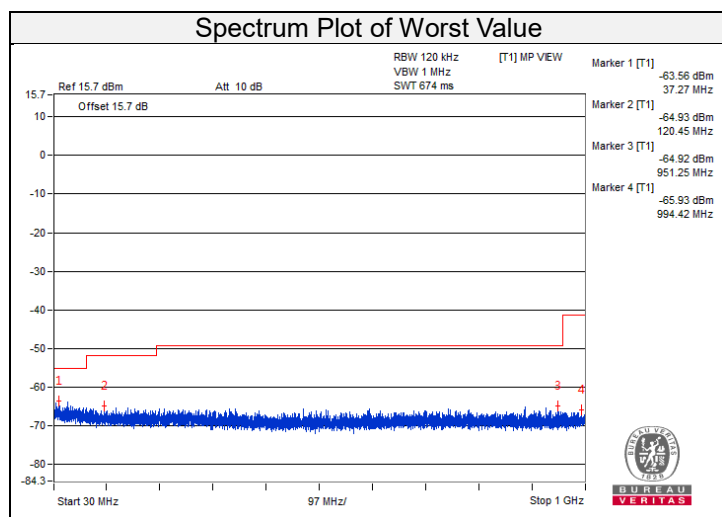


802.11be (EHT20) 106+26-tone MRU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	37.27	34.88	40	-5.12	-63.56	3.18	-60.38
2	120.45	33.51	43.5	-9.99	-64.93	3.18	-61.75
3	360.16	32.81	46	-13.19	-65.63	3.18	-62.45
4	484.44	32.91	46	-13.09	-65.53	3.18	-62.35
5	749.98	32.86	46	-13.14	-65.58	3.18	-62.40
6	951.25	33.52	46	-12.48	-64.92	3.18	-61.74

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



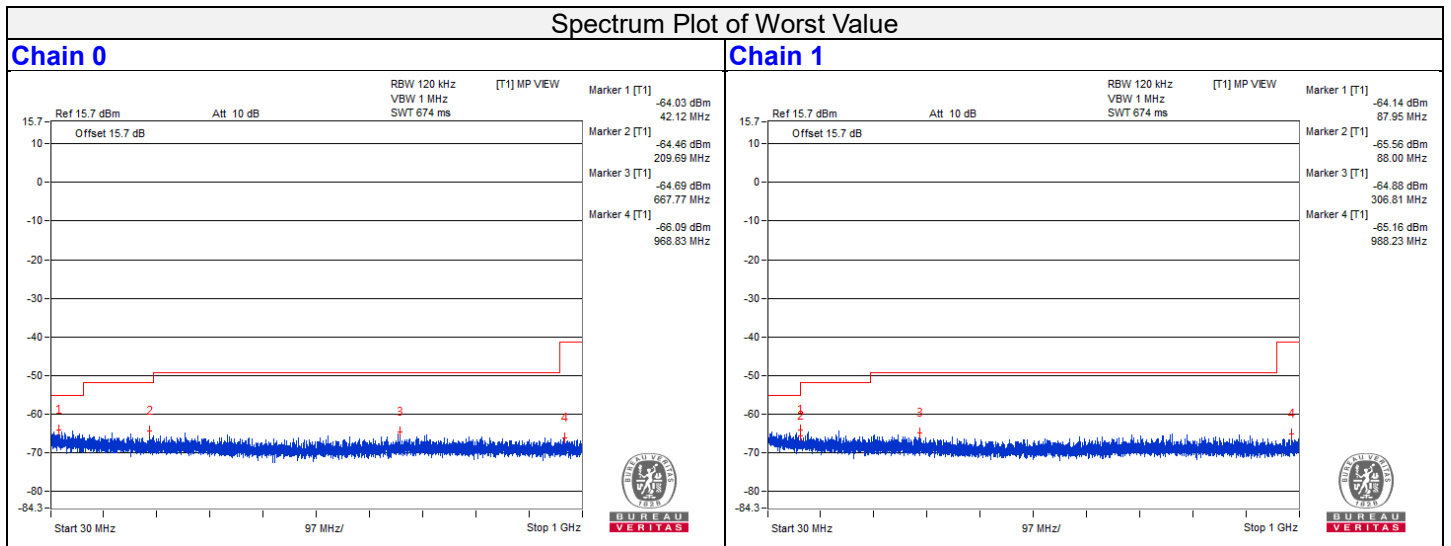
2TX

802.11b\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	35.94	39.11	40	-0.89	-66.36	-64.53	6.19	-56.15
2	100.56	38.87	43.5	-4.63	-66.14	-65.11	6.19	-56.39
3	306.81	38.34	46	-7.66	-67.85	-64.88	6.19	-56.92
4	471.47	37.53	46	-8.47	-67.34	-66.55	6.19	-57.73
5	667.89	38.61	46	-7.39	-65.35	-66.41	6.19	-56.65
6	890.75	38.11	46	-7.89	-67.43	-65.48	6.19	-57.15

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



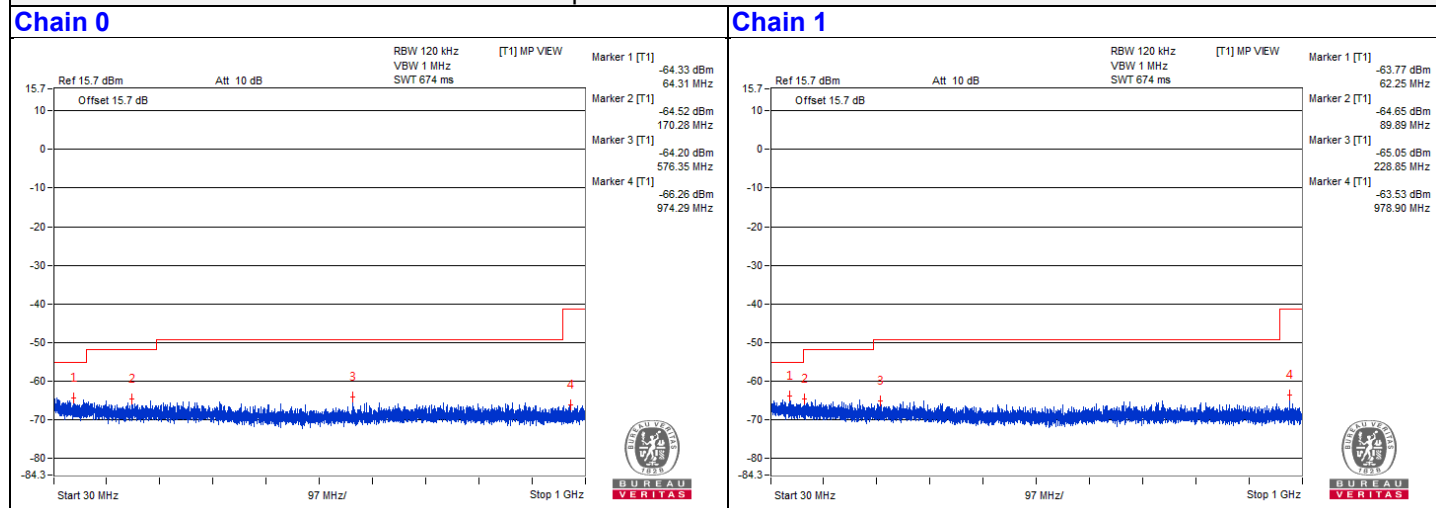
### 802.11be (EHT20) 26-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	34.12	39.44	40	-0.56	-64.4	-65.74	6.19	-55.82
2	89.89	39.14	43.5	-4.36	-66.11	-64.65	6.19	-56.12
3	290.08	38.98	46	-7.02	-65.7	-65.28	6.19	-56.28
4	576.35	38.5	46	-7.5	-64.2	-68.97	6.19	-56.76
5	738.46	38.06	46	-7.94	-67.32	-65.64	6.19	-57.20
6	978.9	38.62	54	-15.38	-71.12	-63.53	6.19	-56.64

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

### Spectrum Plot of Worst Value



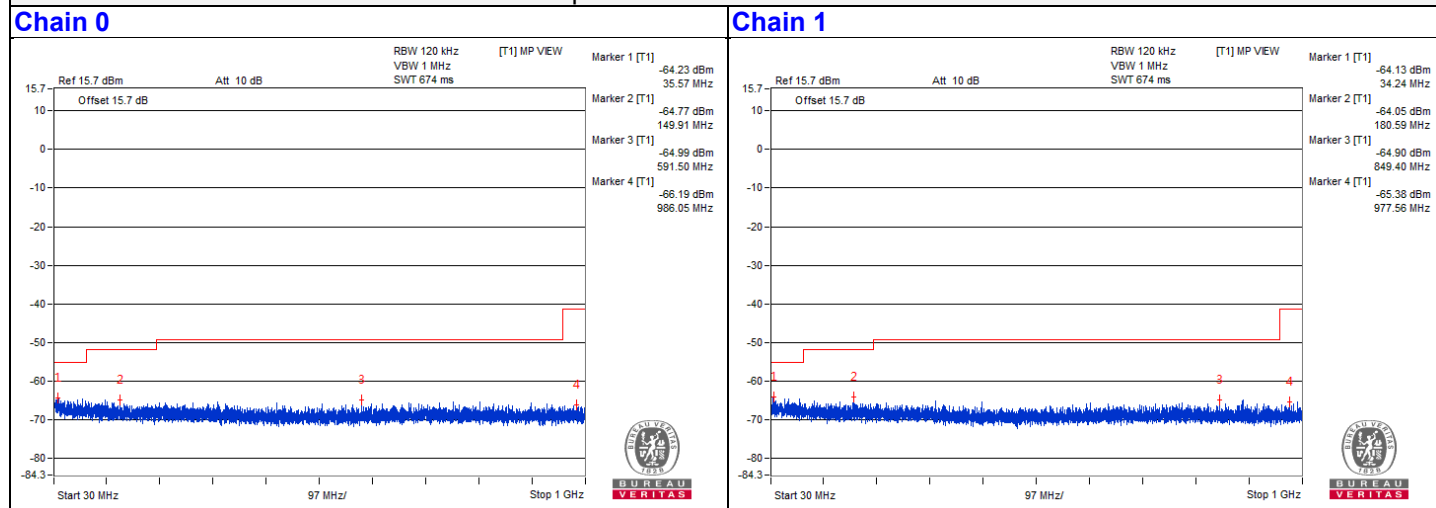
### 802.11be (EHT20) 52-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	37.76	39.24	40	-0.76	-64.27	-66.45	6.19	-56.02
2	180.71	38.84	43.5	-4.66	-67.62	-64.26	6.19	-56.42
3	228.6	37.98	46	-8.02	-66.94	-66.06	6.19	-57.28
4	591.5	38.18	46	-7.82	-64.99	-68.11	6.19	-57.08
5	780.53	37.9	46	-8.1	-67.6	-65.72	6.19	-57.36
6	890.75	37.88	46	-8.12	-68.98	-65.05	6.19	-57.38

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

### Spectrum Plot of Worst Value



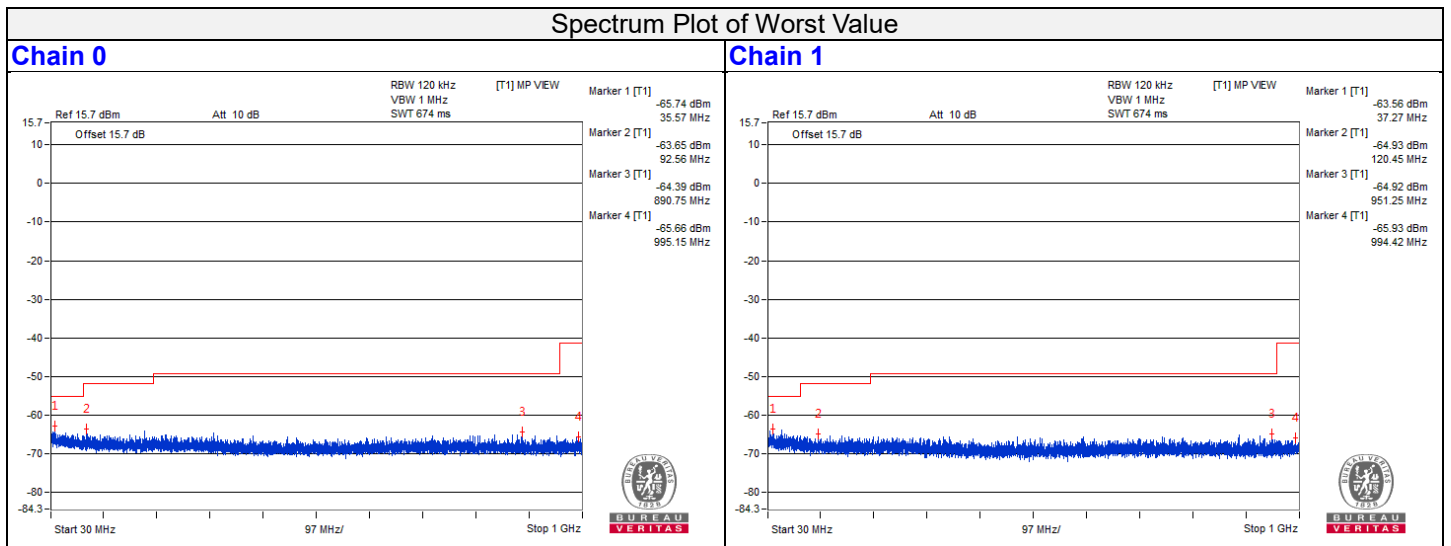


802.11be (EHT20) 106-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	31.81	39.98	40	-0.02	-64.82	-64.16	6.19	-55.28
2	92.56	39.14	43.5	-4.36	-63.65	-68.06	6.19	-56.12
3	220.6	38.62	46	-7.38	-65.96	-65.72	6.19	-56.64
4	508.69	38.18	46	-7.82	-66.32	-66.24	6.19	-57.08
5	726.82	38.24	46	-7.76	-65.32	-67.37	6.19	-57.02
6	890.75	39.76	46	-6.24	-64.39	-65.03	6.19	-55.50

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

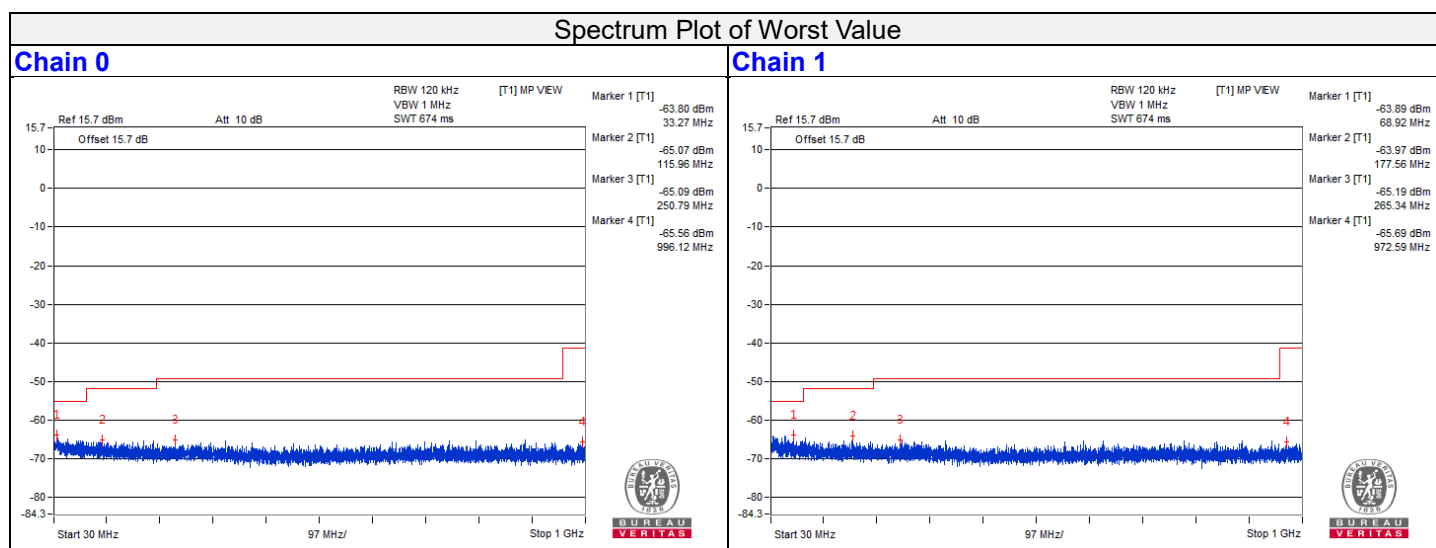


802.11be (EHT20) 52+26-tone MRU CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	33.88	39.45	40	-0.55	-64.14	-66.09	6.19	-55.81
2	91.95	38.63	43.5	-4.87	-67.68	-64.53	6.19	-56.63
3	265.34	38.38	46	-7.62	-67.21	-65.19	6.19	-56.88
4	599.99	37.7	46	-8.3	-68.74	-65.4	6.19	-57.56
5	751.8	37.87	46	-8.13	-65.27	-68.51	6.19	-57.39
6	890.75	39.2	46	-6.8	-65.2	-65.33	6.19	-56.06

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



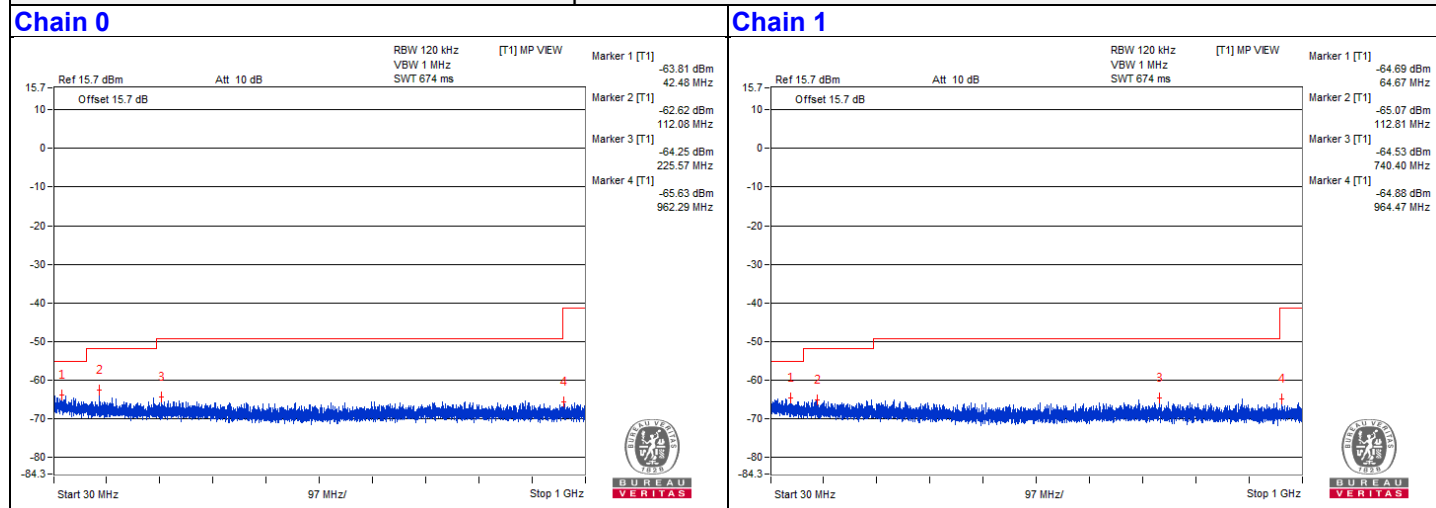
### 802.11be (EHT20) 106+26-tone MRU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	34.97	39.6	40	-0.4	-64.62	-65.11	6.19	-55.66
2	112.08	39.76	43.5	-3.74	-62.62	-68.86	6.19	-55.50
3	225.57	38.66	46	-7.34	-64.25	-68.23	6.19	-56.60
4	487.35	37.54	46	-8.46	-66.95	-66.9	6.19	-57.72
5	740.4	38.16	46	-7.84	-69.35	-64.53	6.19	-57.10
6	890.75	39.43	46	-6.57	-65.26	-64.82	6.19	-55.83

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

### Spectrum Plot of Worst Value



### For Radiated measurement:

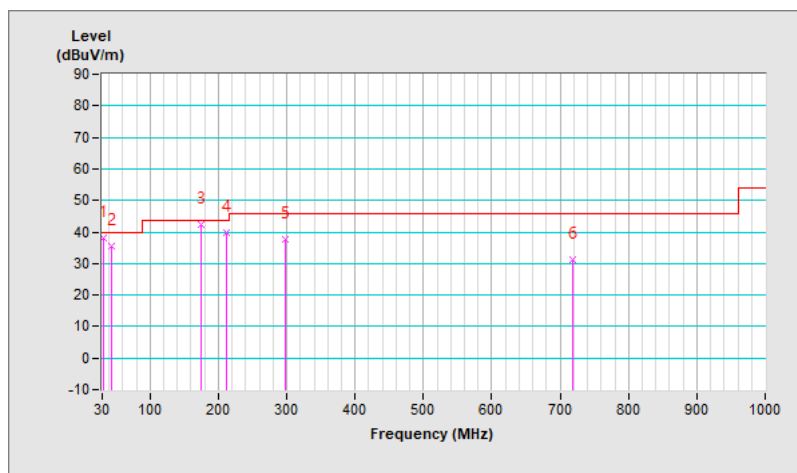
#### 1TX

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	31.94	38.1 QP	40.0	-1.9	1.51 H	24	48.9	-10.8
2	44.55	35.3 QP	40.0	-4.7	1.51 H	39	44.9	-9.6
3	175.50	42.2 QP	43.5	-1.3	1.51 H	113	52.1	-9.9
4	211.39	39.7 QP	43.5	-3.8	1.01 H	13	51.4	-11.7
5	298.69	37.7 QP	46.0	-8.3	1.01 H	190	45.5	-7.8
6	718.70	31.4 QP	46.0	-14.6	1.01 H	63	31.1	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.

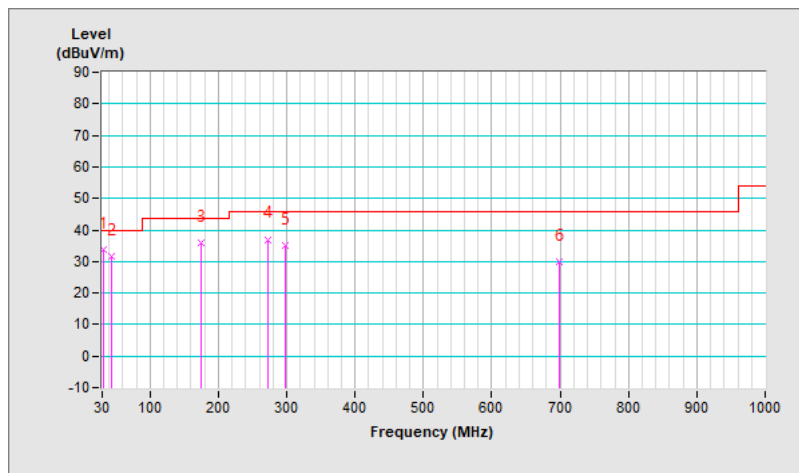


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	32.91	33.6 QP	40.0	-6.4	1.00 V	351	44.5	-10.9
2	44.55	31.6 QP	40.0	-8.4	1.00 V	44	41.2	-9.6
3	175.50	36.1 QP	43.5	-7.4	1.99 V	78	46.0	-9.9
4	271.53	37.0 QP	46.0	-9.0	1.00 V	123	45.4	-8.4
5	298.69	34.9 QP	46.0	-11.1	1.50 V	132	42.7	-7.8
6	698.33	30.0 QP	46.0	-16.0	1.99 V	226	30.0	0.0

Remarks:

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



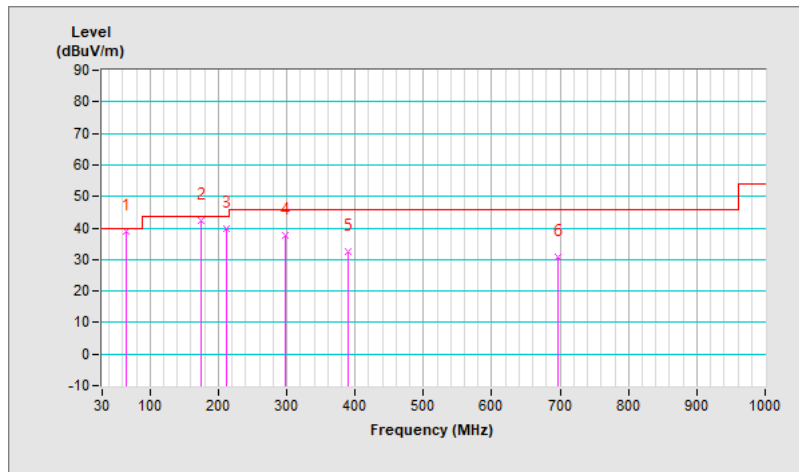
2TX

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	65.89	39.0 QP	40.0	-1.0	1.99 H	10	49.7	-10.7
2	175.50	42.4 QP	43.5	-1.1	1.49 H	120	52.3	-9.9
3	211.39	39.7 QP	43.5	-3.8	1.00 H	22	51.4	-11.7
4	298.69	37.5 QP	46.0	-8.5	1.00 H	209	45.3	-7.8
5	388.90	32.6 QP	46.0	-13.4	1.99 H	250	38.7	-6.1
6	697.36	30.8 QP	46.0	-15.2	1.00 H	294	30.8	0.0

Remarks:

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

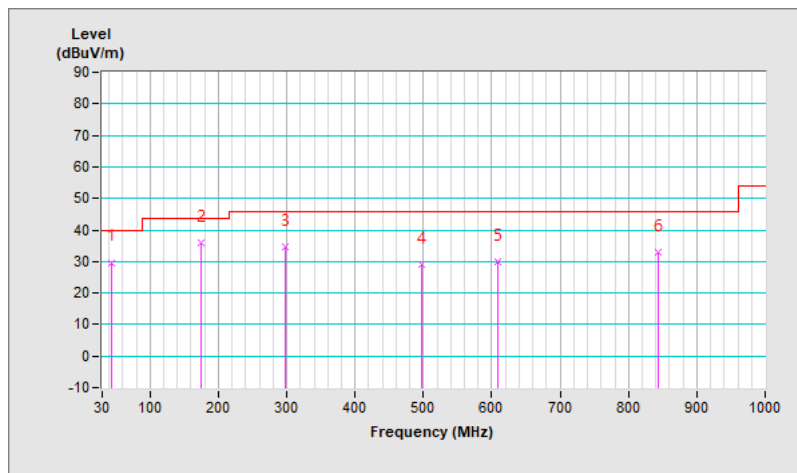


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

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	44.55	29.7 QP	40.0	-10.3	1.00 V	36	39.3	-9.6
2	175.50	35.8 QP	43.5	-7.7	1.99 V	70	45.7	-9.9
3	298.69	34.7 QP	46.0	-11.3	1.49 V	163	42.5	-7.8
4	497.54	29.0 QP	46.0	-17.0	1.00 V	7	33.3	-4.3
5	609.09	29.9 QP	46.0	-16.1	1.49 V	292	31.5	-1.6
6	842.86	33.0 QP	46.0	-13.0	1.00 V	345	30.0	3.0

Remarks:

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



## 7.7 Unwanted Emissions above 1 GHz

### 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 Emission Convert Formula

a.  $\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$

d = measurement distance in 3 meters.

b.  $\text{EIRP Level (dBm)} = \text{Raw Value(dBm)} + \text{Correction Factor(dB)}$

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  $f = 30 - 1000$  MHz, add 4.7 dB.

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



**For Conducted measurement:**

**Conducted spurious emission table**

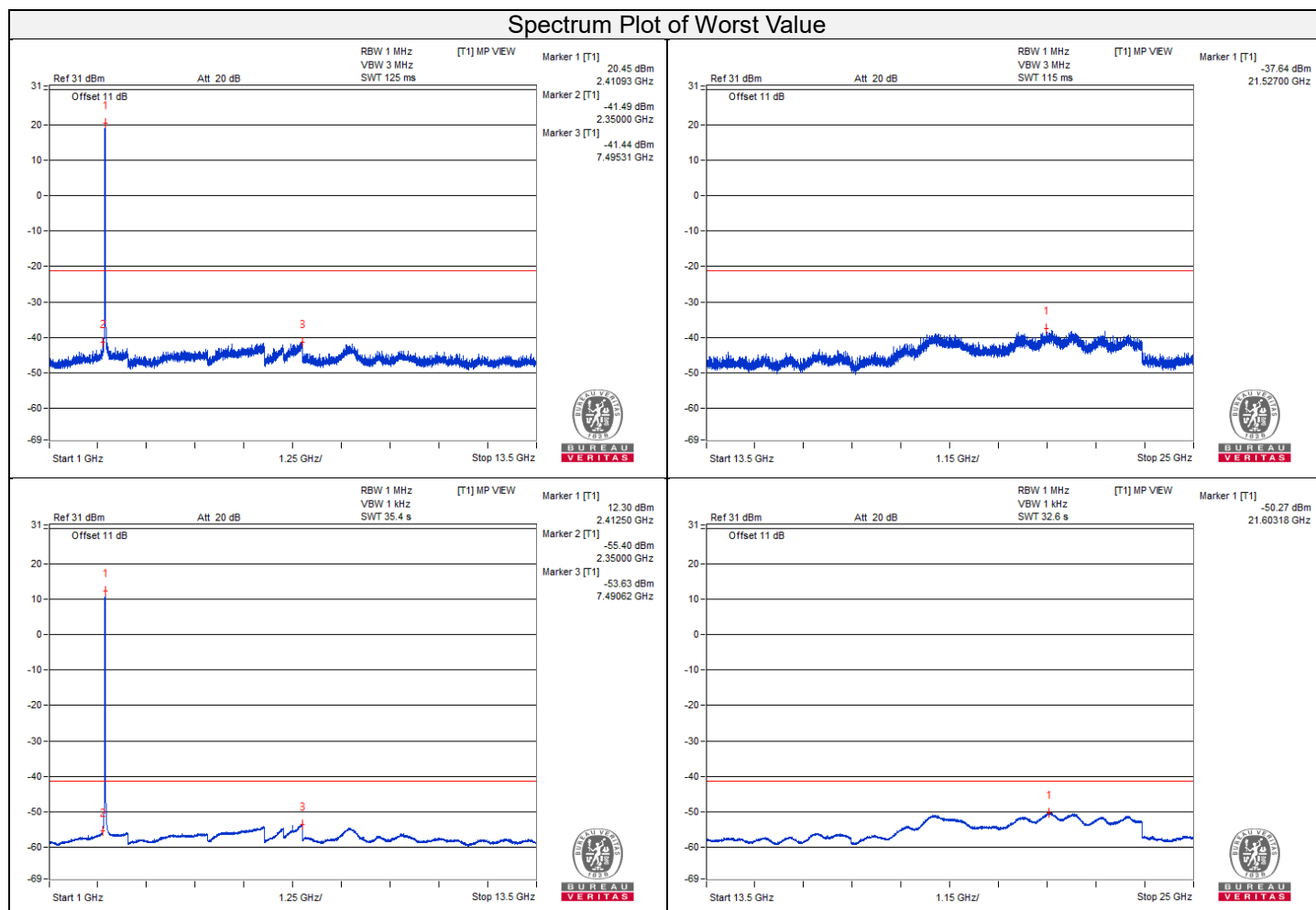
1TX

802.11b\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4850	54.59 PK	74	-19.41	-43.85	3.18	-40.67
2	4950	42.2 AV	54	-11.8	-56.24	3.18	-53.06
3	7495.31	57 PK	74	-17	-41.44	3.18	-38.26
4	7490.62	44.81 AV	54	-9.19	-53.63	3.18	-50.45

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

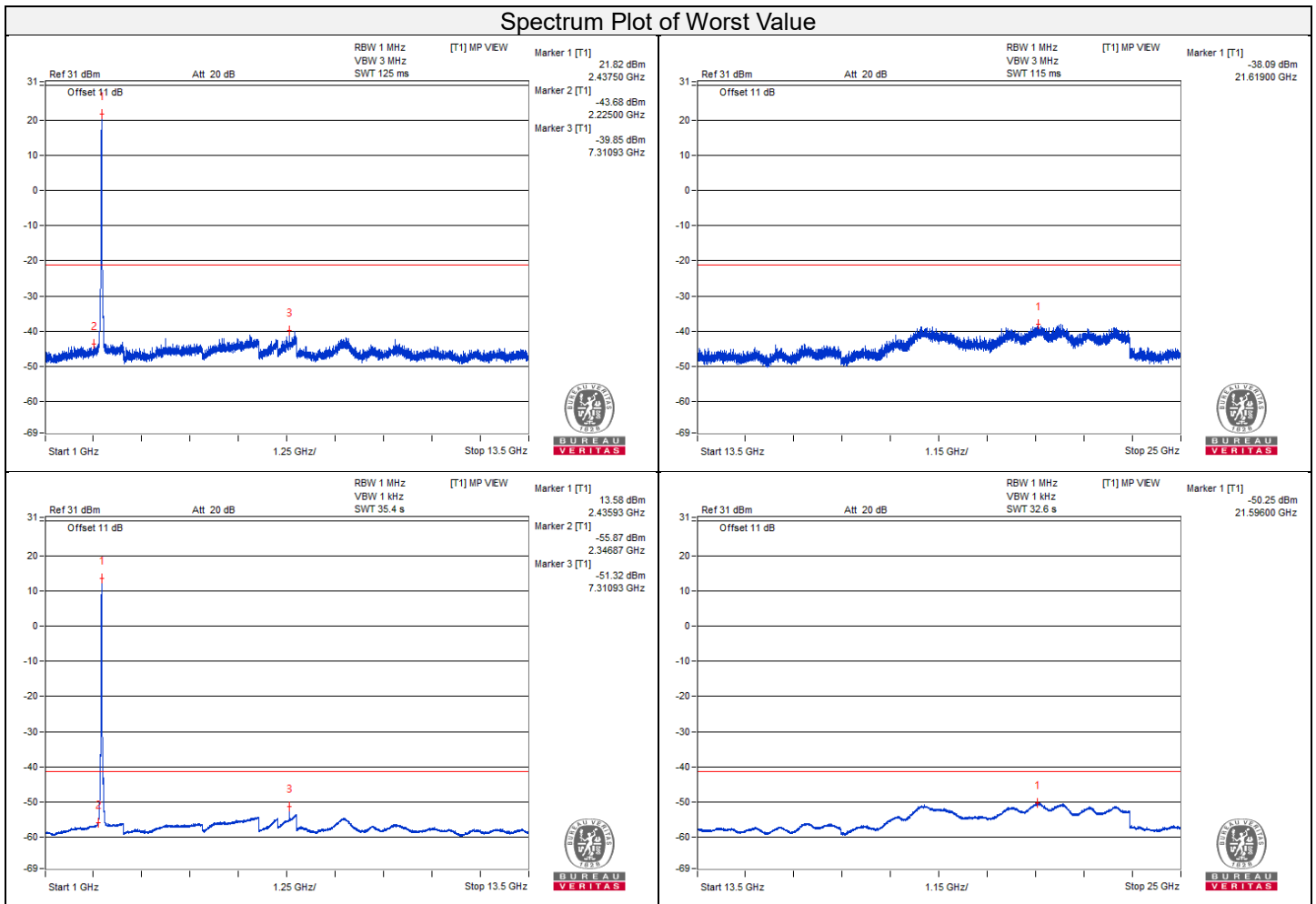


802.11b\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4906.25	54.81 PK	74	-19.19	-43.63	3.18	-40.45
2	4970.31	42.31 AV	54	-11.69	-56.13	3.18	-52.95
3	7310.93	58.59 PK	74	-15.41	-39.85	3.18	-36.67
4	7310.93	47.12 AV	54	-6.88	-51.32	3.18	-48.14

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



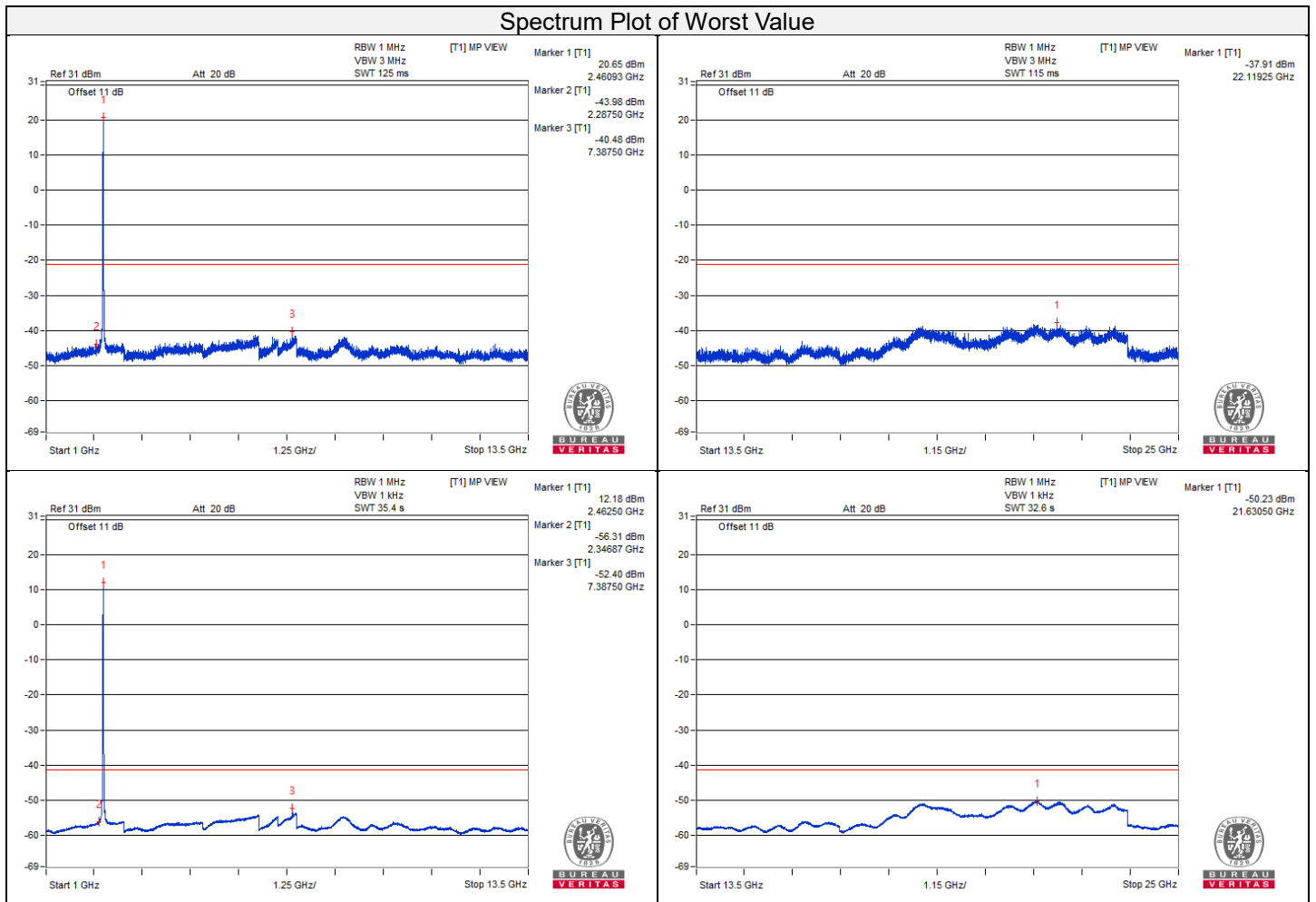
802.11b\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4846.87	54.72 PK	74	-19.28	-43.72	3.18	-40.54
2	4898.43	42.18 AV	54	-11.82	-56.26	3.18	-53.08
3	7387.5	57.96 PK	74	-16.04	-40.48	3.18	-37.30
4	7384.37	46.04 AV	54	-7.96	-52.4	3.18	-49.22

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



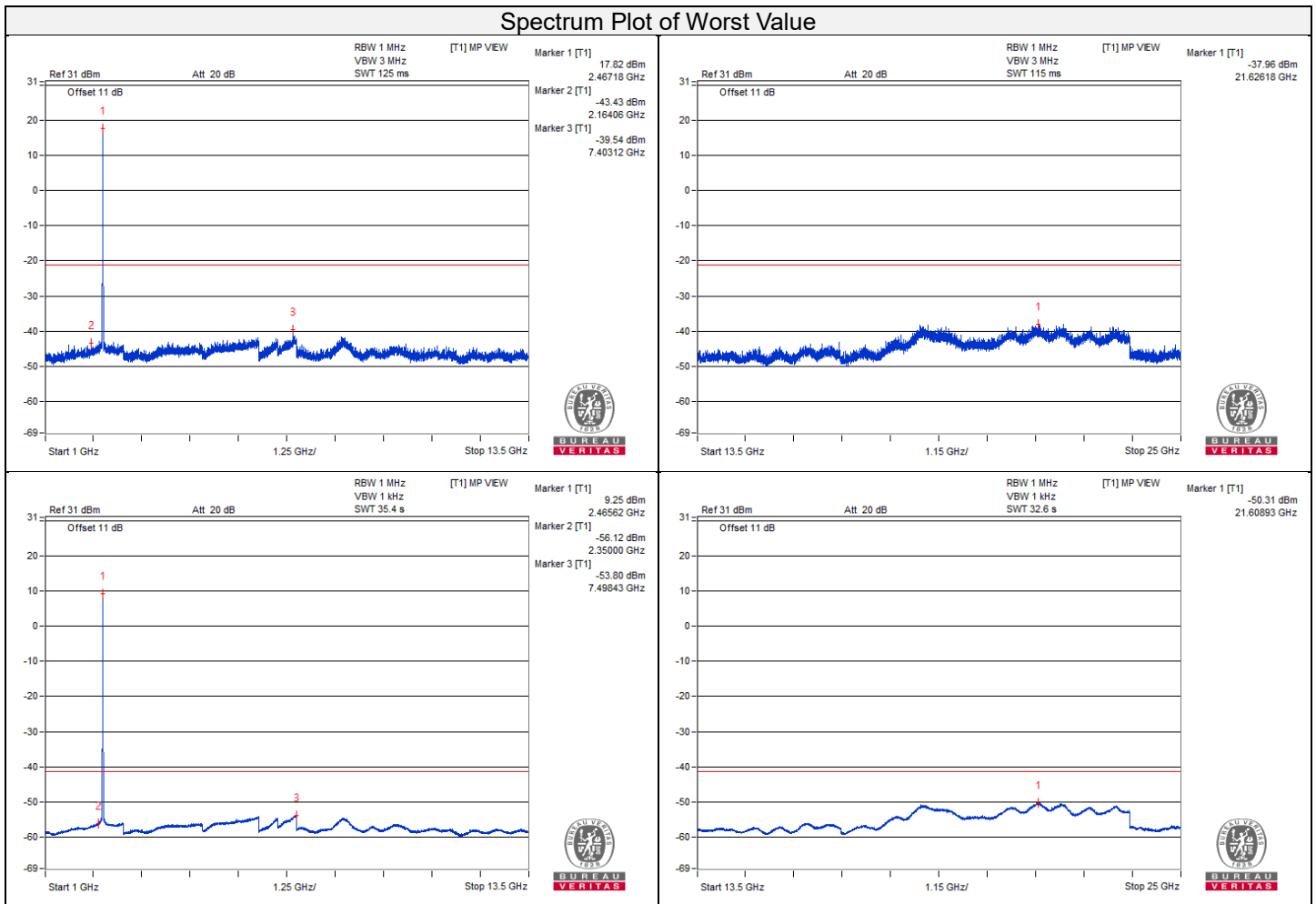
802.11b\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4976.56	55.07 PK	74	-18.93	-43.37	3.18	-40.19
2	4817.18	42.25 AV	54	-11.75	-56.19	3.18	-53.01
3	7403.12	58.9 PK	74	-15.1	-39.54	3.18	-36.36
4	7498.43	44.64 AV	54	-9.36	-53.8	3.18	-50.62

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

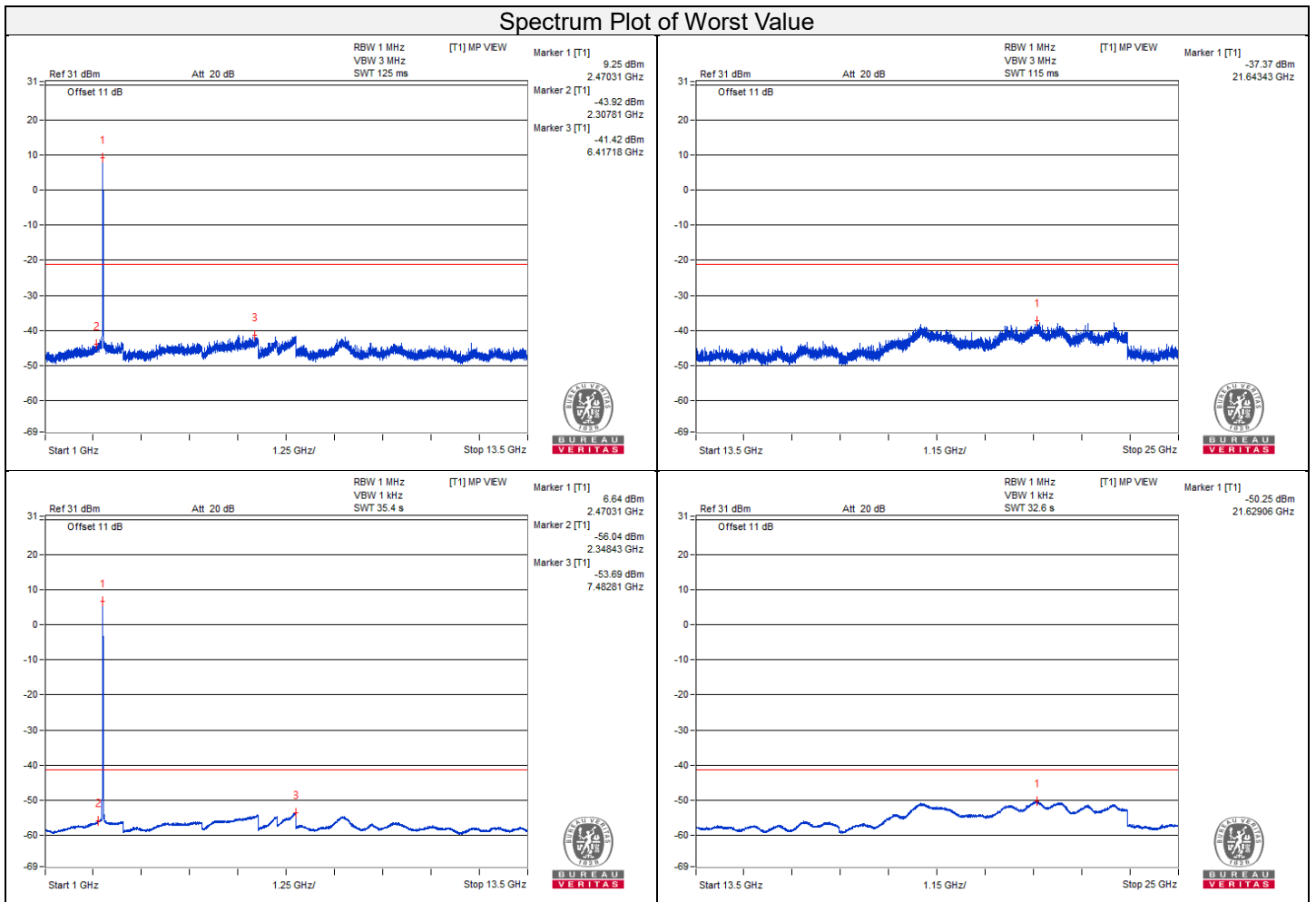


802.11b\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4928.12	54.87 PK	74	-19.13	-43.57	3.18	-40.39
2	4942.18	42.18 AV	54	-11.82	-56.26	3.18	-53.08
3	7487.5	56.73 PK	74	-17.27	-41.71	3.18	-38.53
4	7482.81	44.75 AV	54	-9.25	-53.69	3.18	-50.51

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

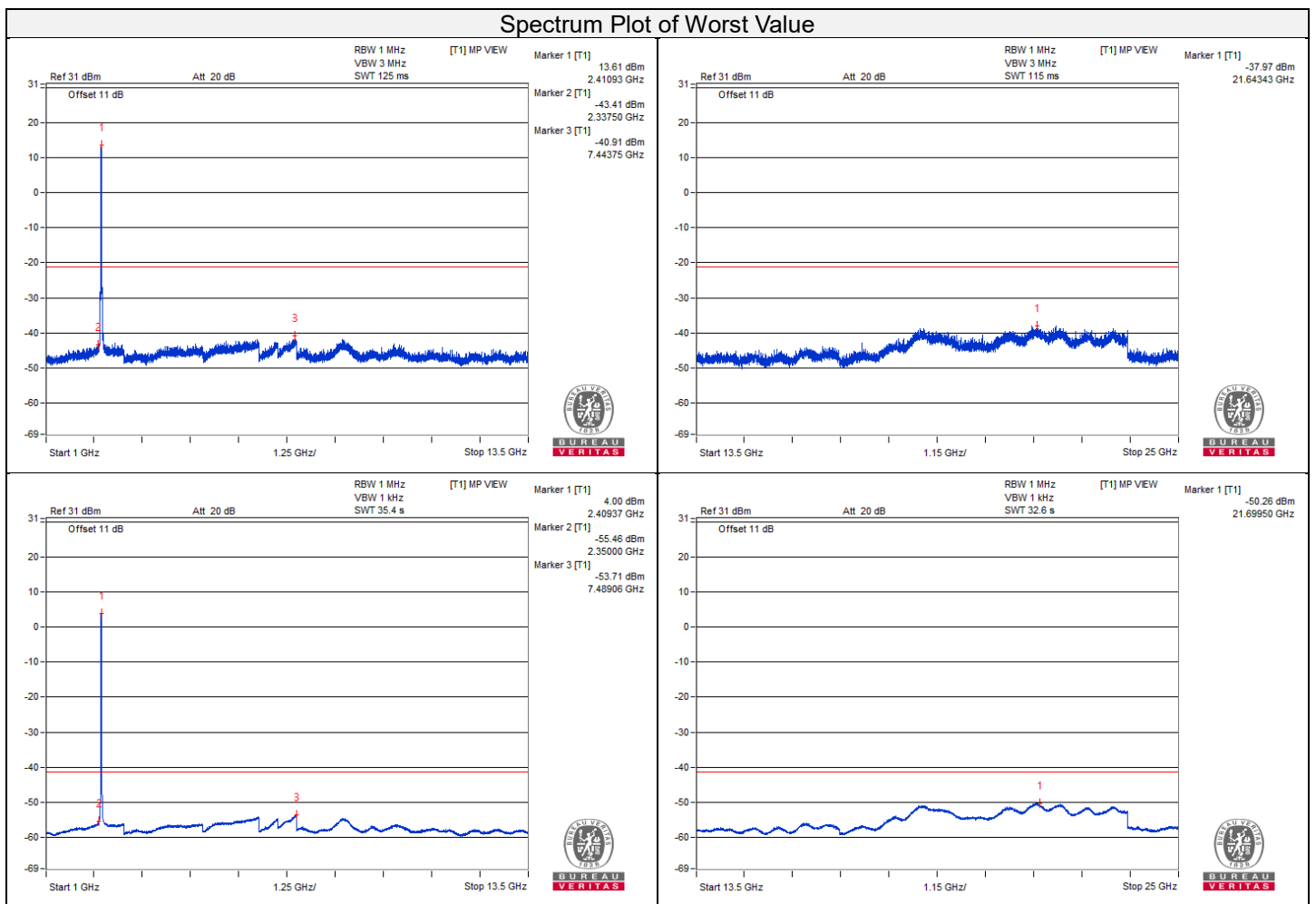


802.11g\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4854.68	55.23 PK	74	-18.77	-43.21	3.18	-40.03
2	4965.62	42.21 AV	54	-11.79	-56.23	3.18	-53.05
3	7443.75	57.53 PK	74	-16.47	-40.91	3.18	-37.73
4	7489.06	44.73 AV	54	-9.27	-53.71	3.18	-50.53

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



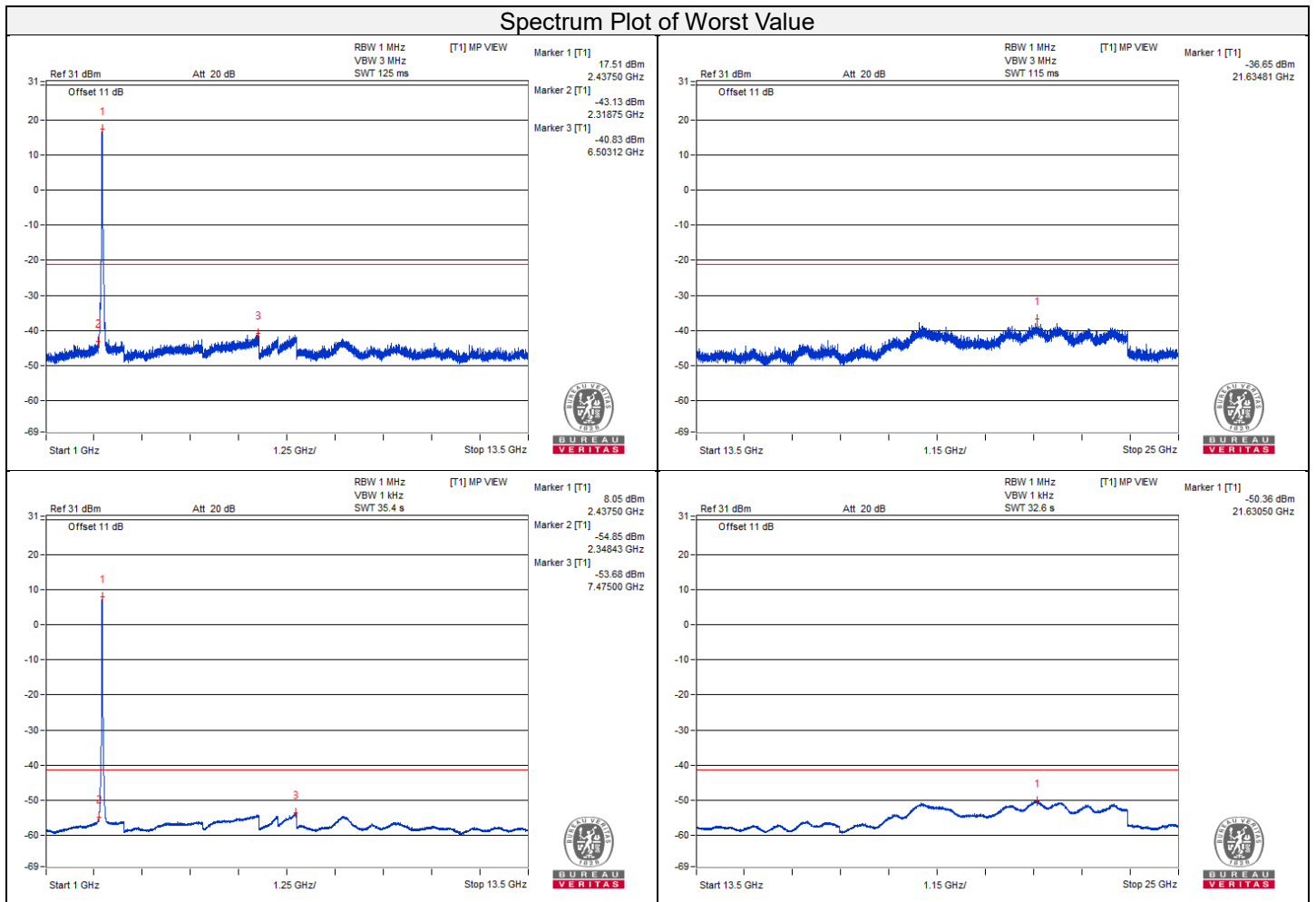
802.11g\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4925	55.5 PK	74	-18.5	-42.94	3.18	-39.76
2	4946.87	42.24 AV	54	-11.76	-56.2	3.18	-53.02
3	7437.5	57.19 PK	74	-16.81	-41.25	3.18	-38.07
4	7475	44.76 AV	54	-9.24	-53.68	3.18	-50.50

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



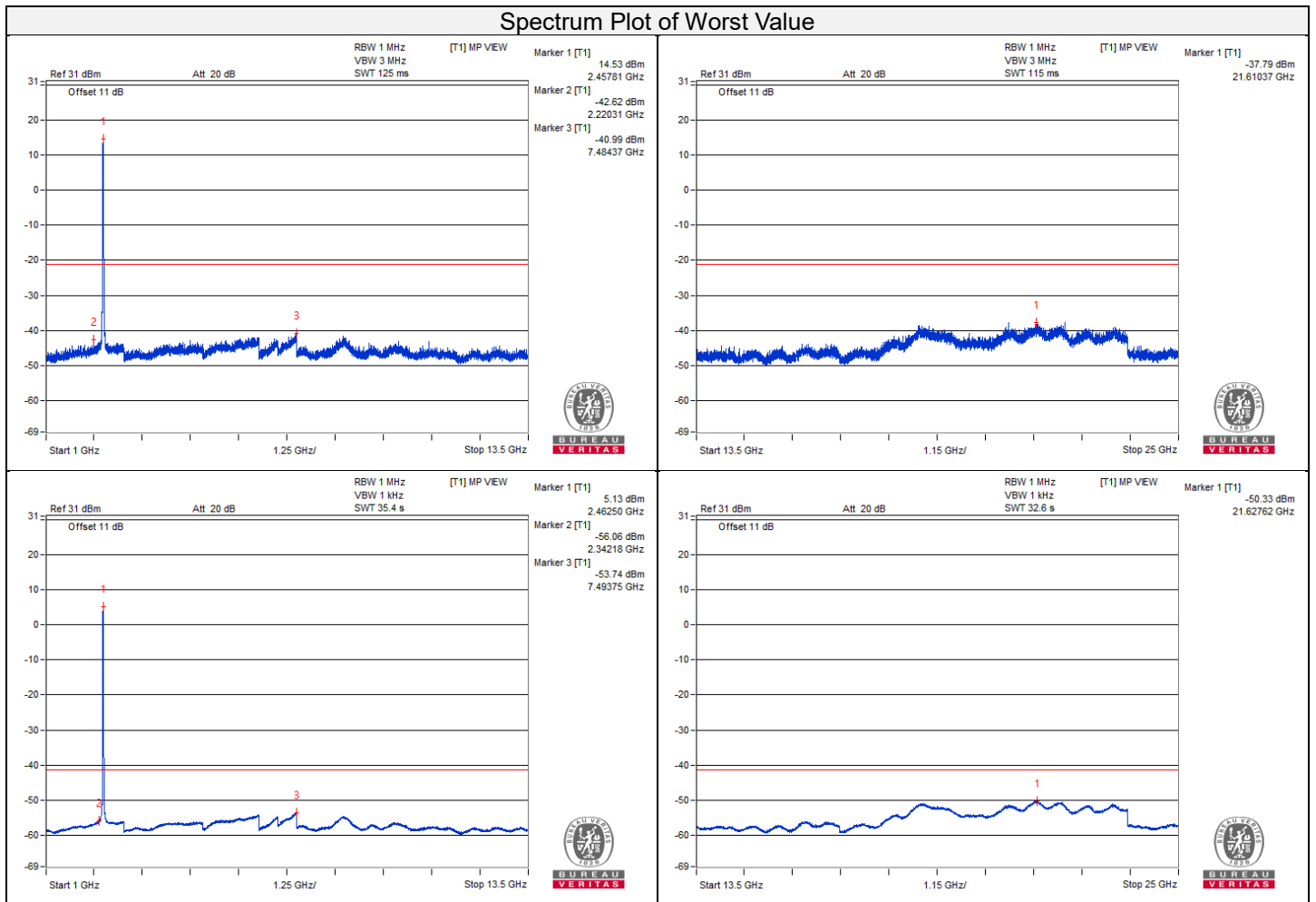
802.11g\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4918.75	54.99 PK	74	-19.01	-43.45	3.18	-40.27
2	4820.31	42.19 AV	54	-11.81	-56.25	3.18	-53.07
3	7484.37	57.45 PK	74	-16.55	-40.99	3.18	-37.81
4	7493.75	44.7 AV	54	-9.3	-53.74	3.18	-50.56

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value





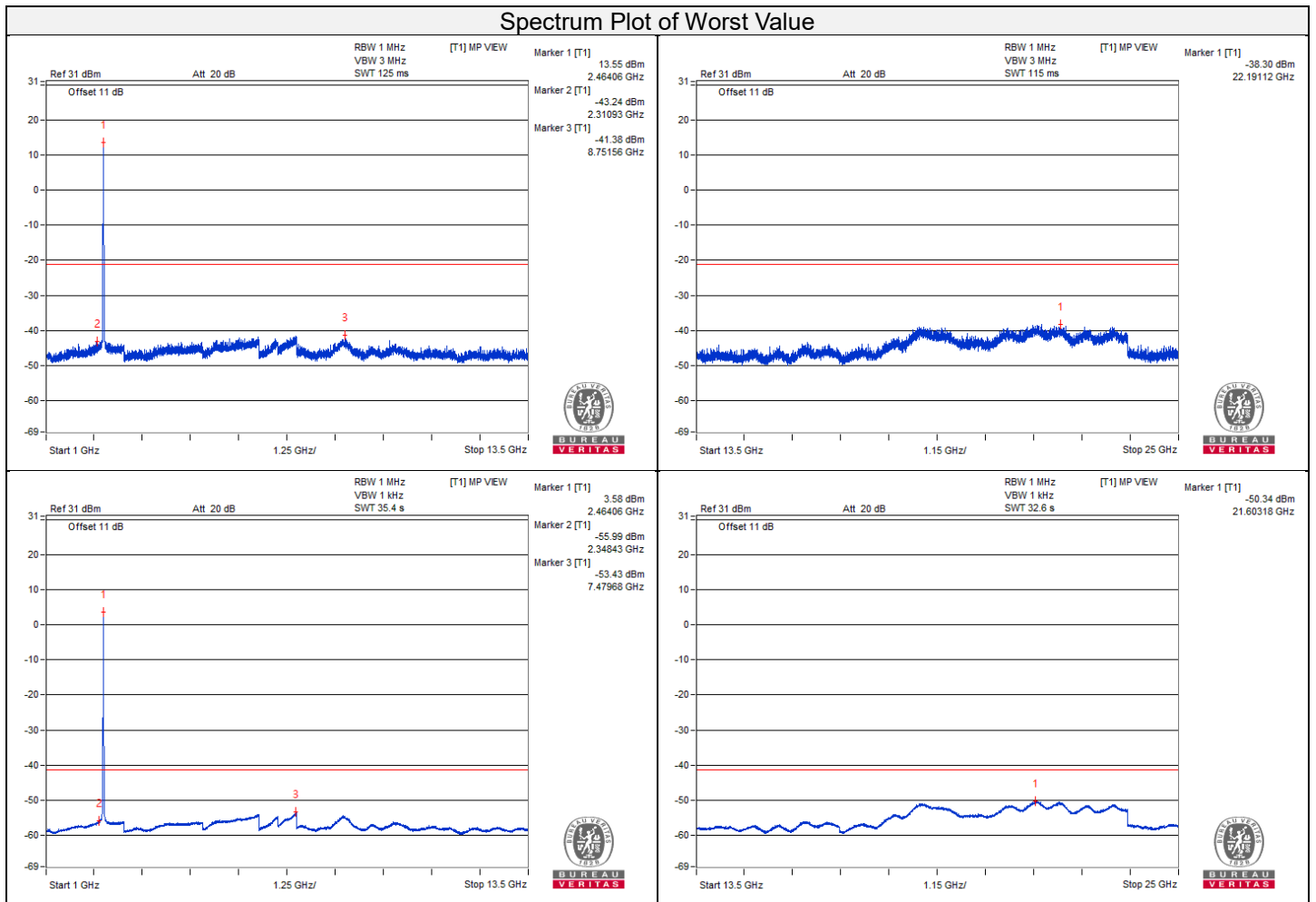
802.11g\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4940.62	54.52 PK	74	-19.48	-43.92	3.18	-40.74
2	4935.93	42.23 AV	54	-11.77	-56.21	3.18	-53.03
3	7479.68	56.78 PK	74	-17.22	-41.66	3.18	-38.48
4	7479.68	45.01 AV	54	-8.99	-53.43	3.18	-50.25

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

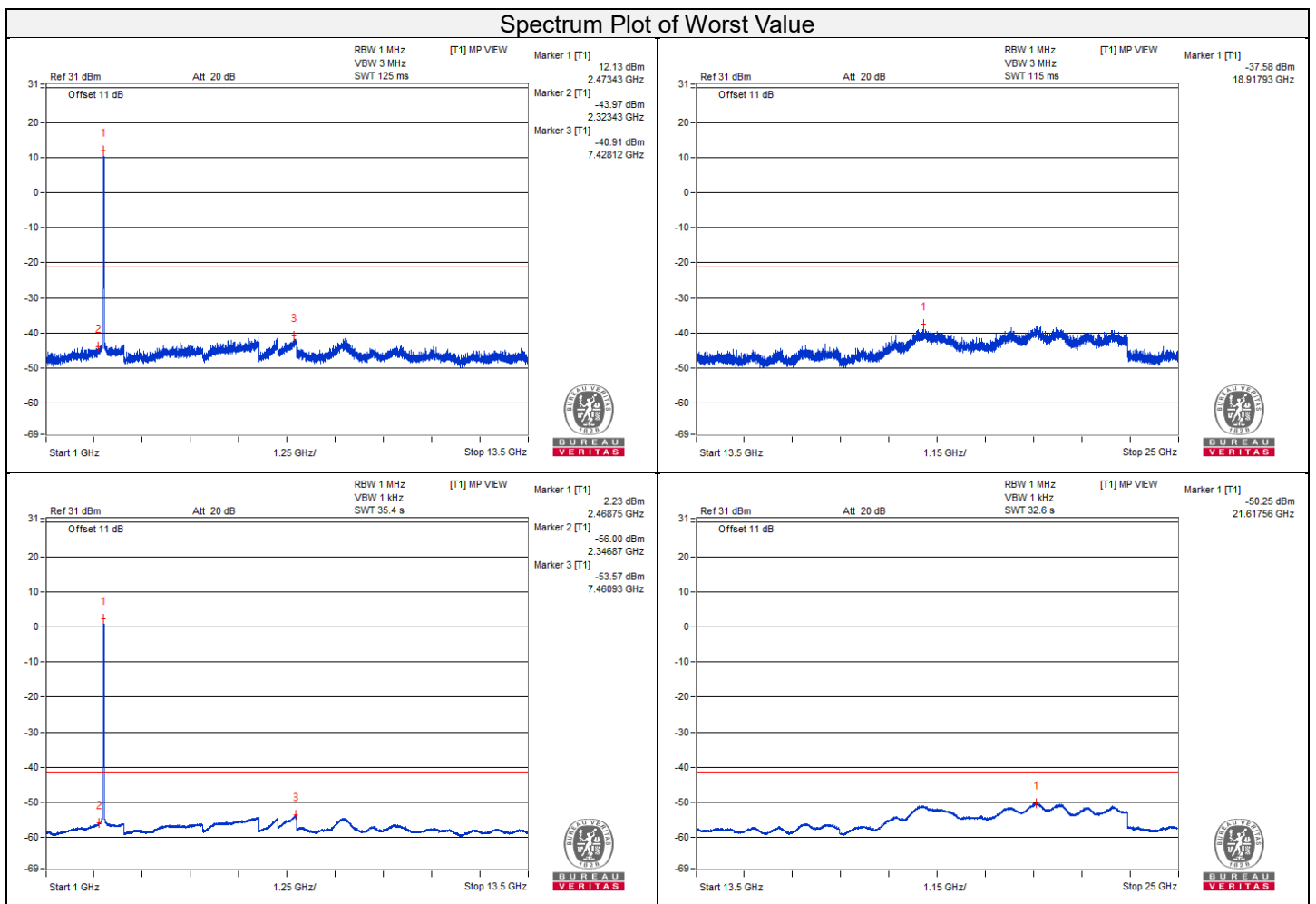


802.11g\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4910.93	54.4 PK	74	-19.6	-44.04	3.18	-40.86
2	4965.62	42.16 AV	54	-11.84	-56.28	3.18	-53.10
3	7428.12	57.53 PK	74	-16.47	-40.91	3.18	-37.73
4	7460.93	44.87 AV	54	-9.13	-53.57	3.18	-50.39

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



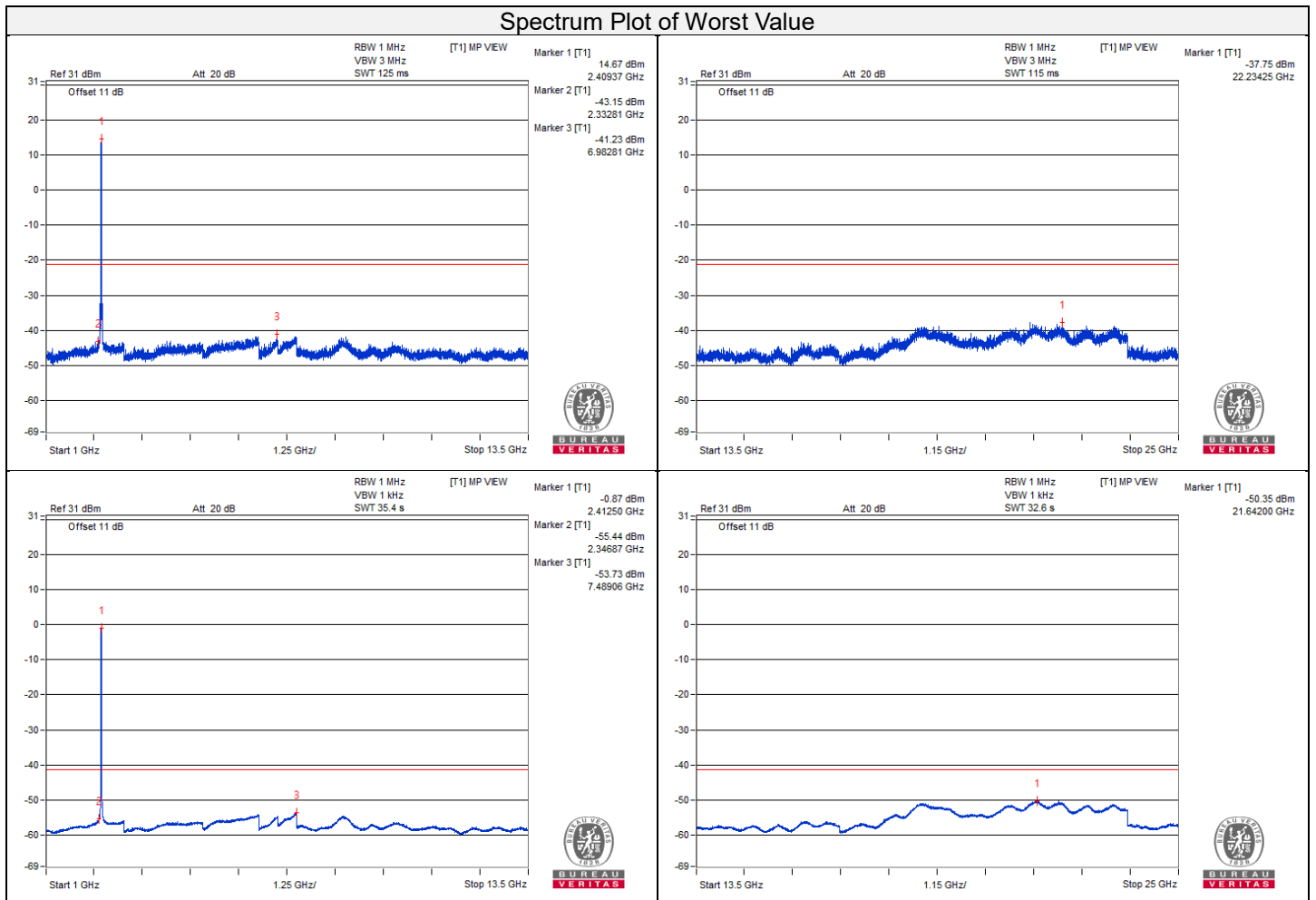
802.11be (EHT20)\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4989.06	55.03 PK	74	-18.97	-43.41	3.18	-40.23
2	4903.12	42.12 AV	54	-11.88	-56.32	3.18	-53.14
3	7465.62	56.53 PK	74	-17.47	-41.91	3.18	-38.73
4	7489.06	44.71 AV	54	-9.29	-53.73	3.18	-50.55

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



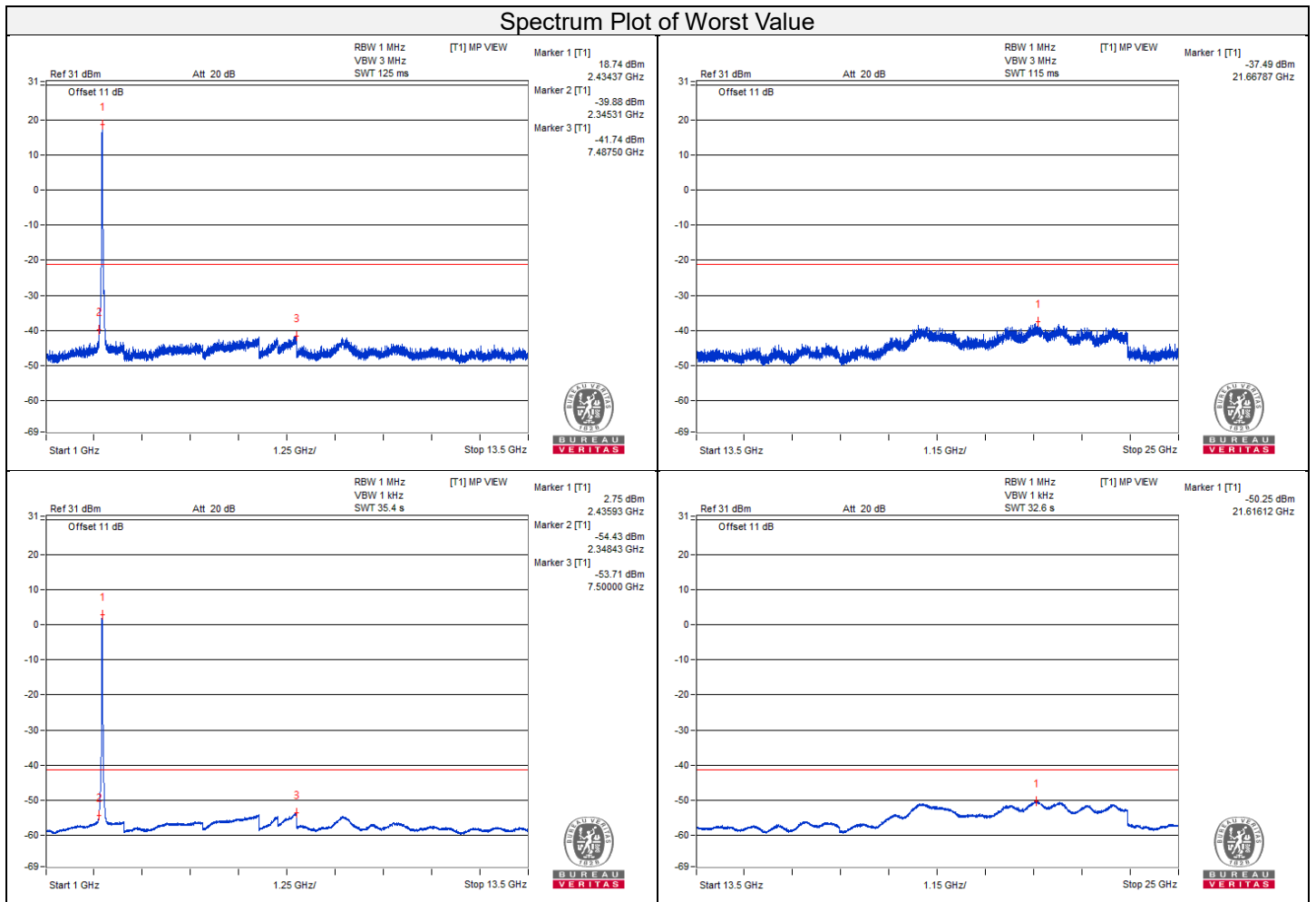
802.11be (EHT20)\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4868.75	54.86 PK	74	-19.14	-43.58	3.18	-40.40
2	4928.12	42.22 AV	54	-11.78	-56.22	3.18	-53.04
3	7487.5	56.7 PK	74	-17.3	-41.74	3.18	-38.56
4	7500	44.73 AV	54	-9.27	-53.71	3.18	-50.53

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



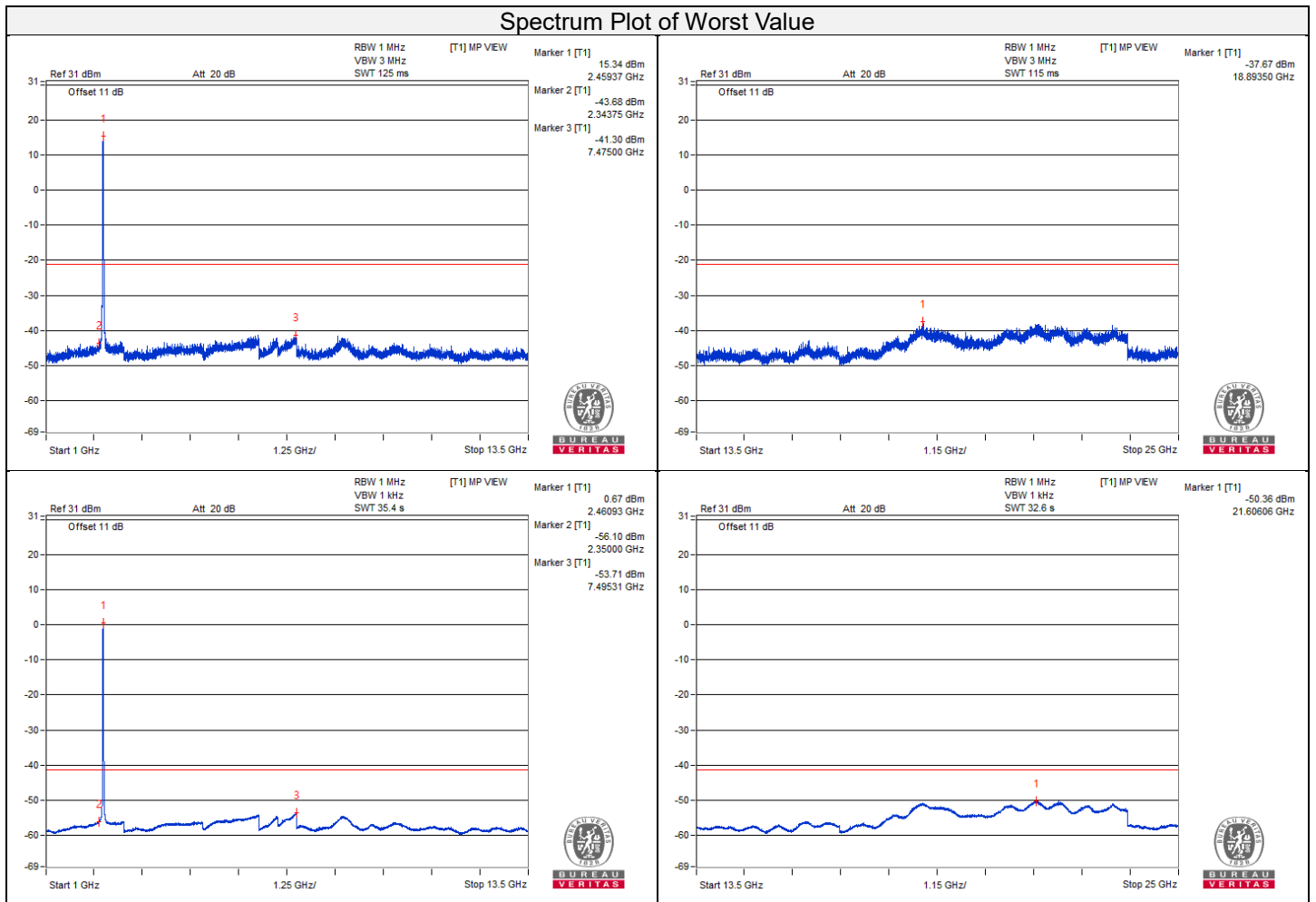
802.11be (EHT20)\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4910.93	54.52 PK	74	-19.48	-43.92	3.18	-40.74
2	4825	42.18 AV	54	-11.82	-56.26	3.18	-53.08
3	7475	57.14 PK	74	-16.86	-41.3	3.18	-38.12
4	7495.31	44.73 AV	54	-9.27	-53.71	3.18	-50.53

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



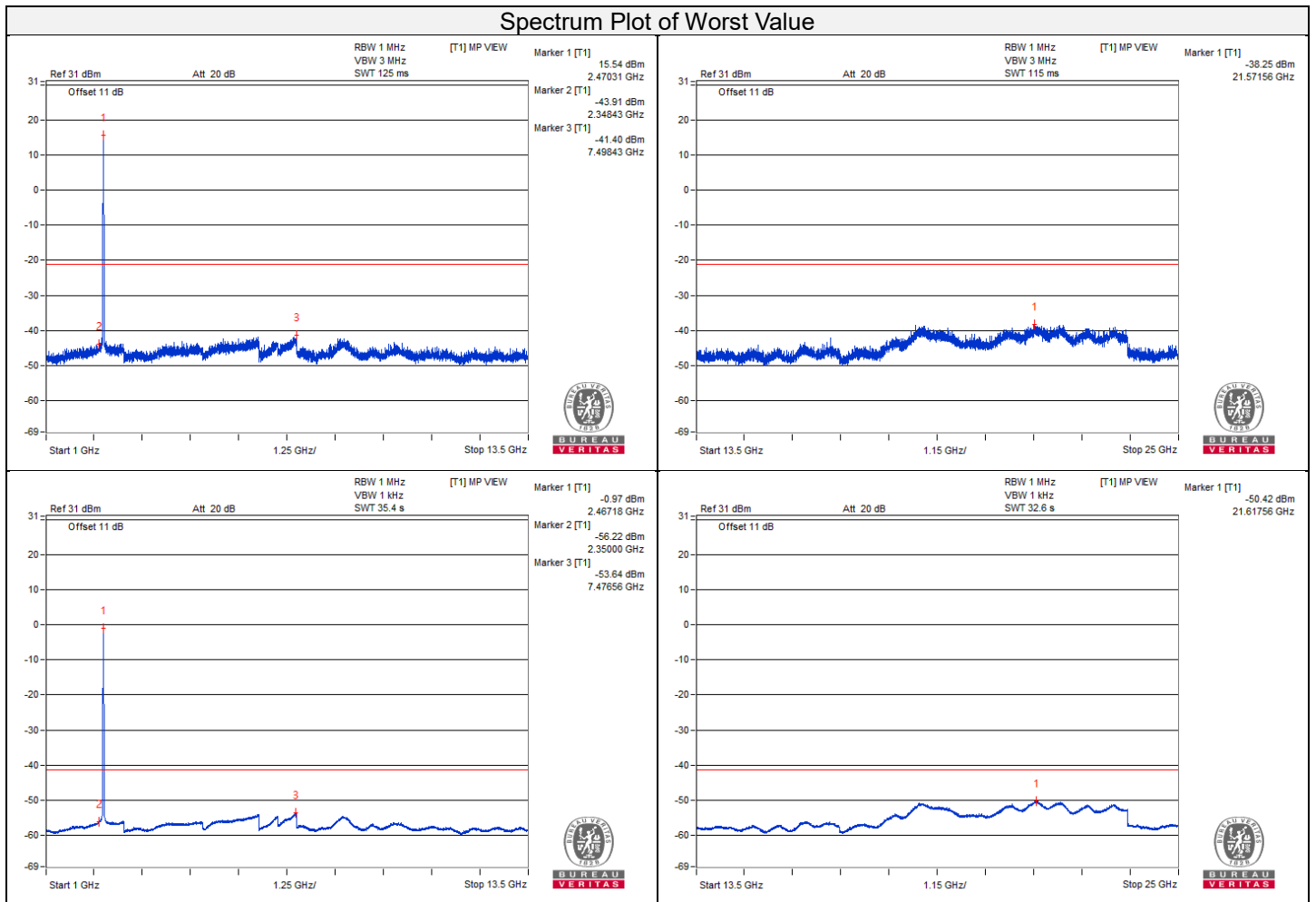
802.11be (EHT20)\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4904.68	54.7 PK	74	-19.3	-43.74	3.18	-40.56
2	4984.37	42.28 AV	54	-11.72	-56.16	3.18	-52.98
3	7498.43	57.04 PK	74	-16.96	-41.4	3.18	-38.22
4	7476.56	44.8 AV	54	-9.2	-53.64	3.18	-50.46

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



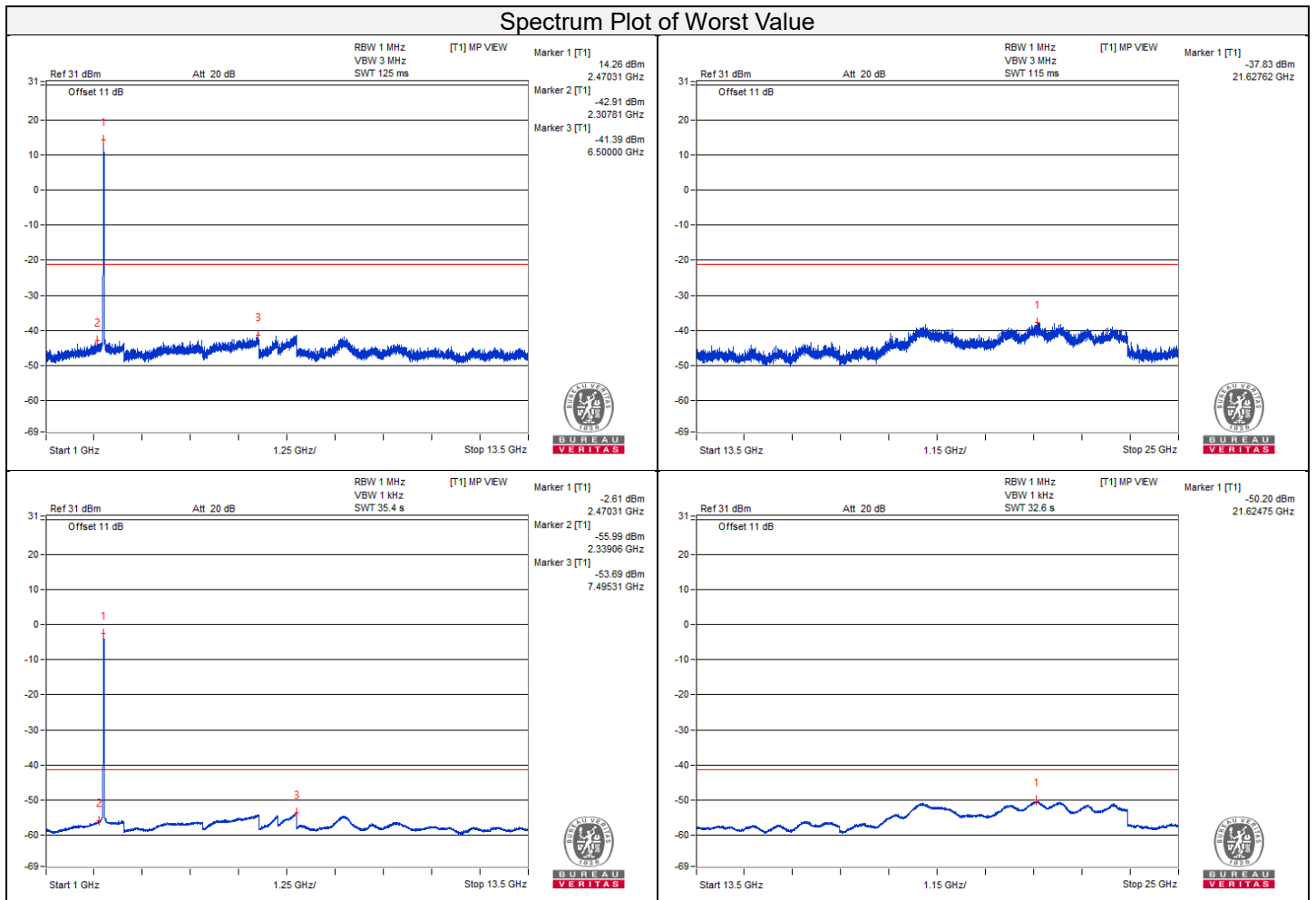
802.11be (EHT20)\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4939.06	55.64 PK	74	-18.36	-42.8	3.18	-39.62
2	4907.81	42.15 AV	54	-11.85	-56.29	3.18	-53.11
3	7489.06	57.01 PK	74	-16.99	-41.43	3.18	-38.25
4	7495.31	44.75 AV	54	-9.25	-53.69	3.18	-50.51

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



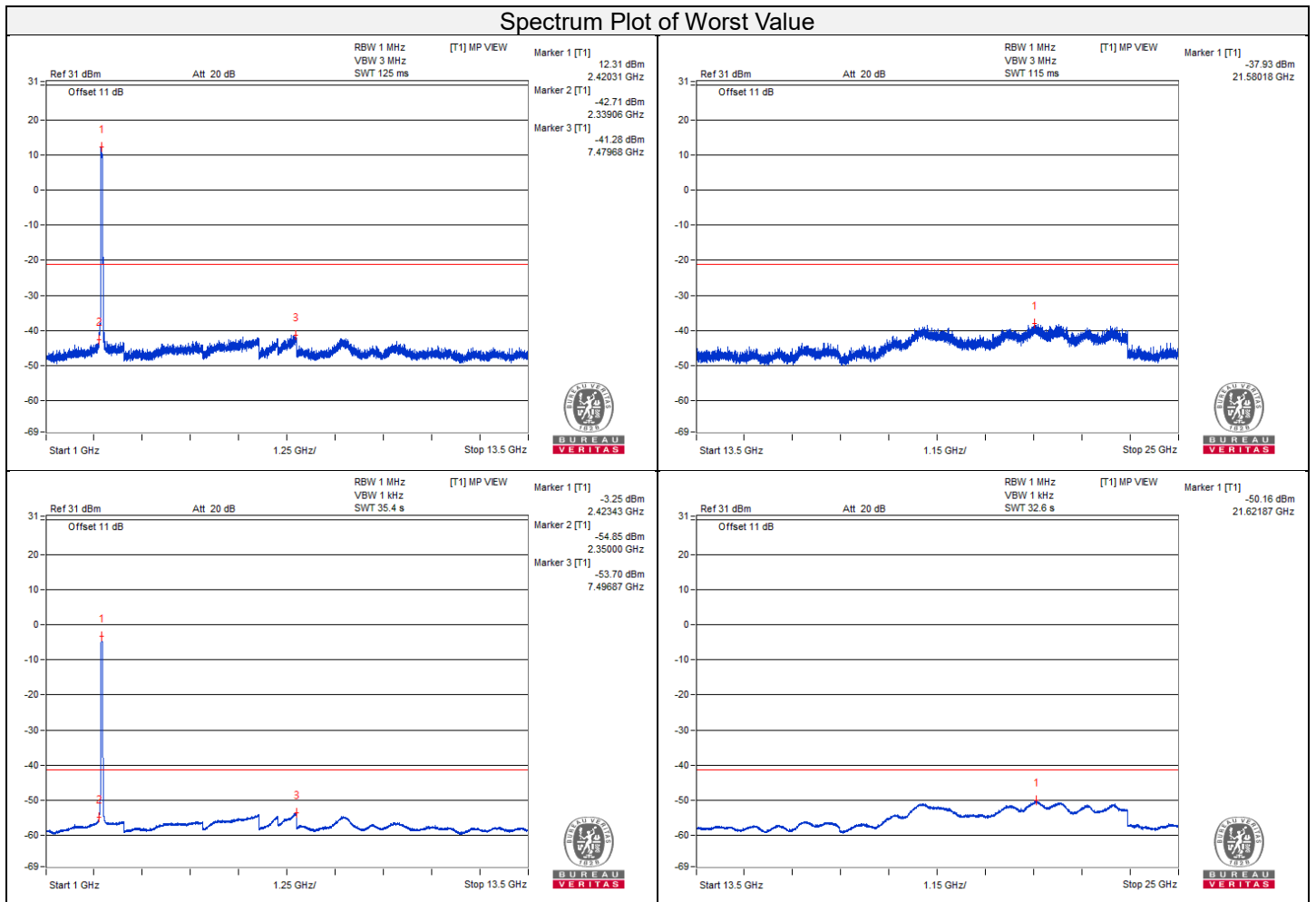
802.11be (EHT40)\_CH 3

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4889.06	55.16 PK	74	-18.84	-43.28	3.18	-40.10
2	4931.25	42.25 AV	54	-11.75	-56.19	3.18	-53.01
3	7479.68	57.16 PK	74	-16.84	-41.28	3.18	-38.10
4	7496.87	44.74 AV	54	-9.26	-53.7	3.18	-50.52

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value





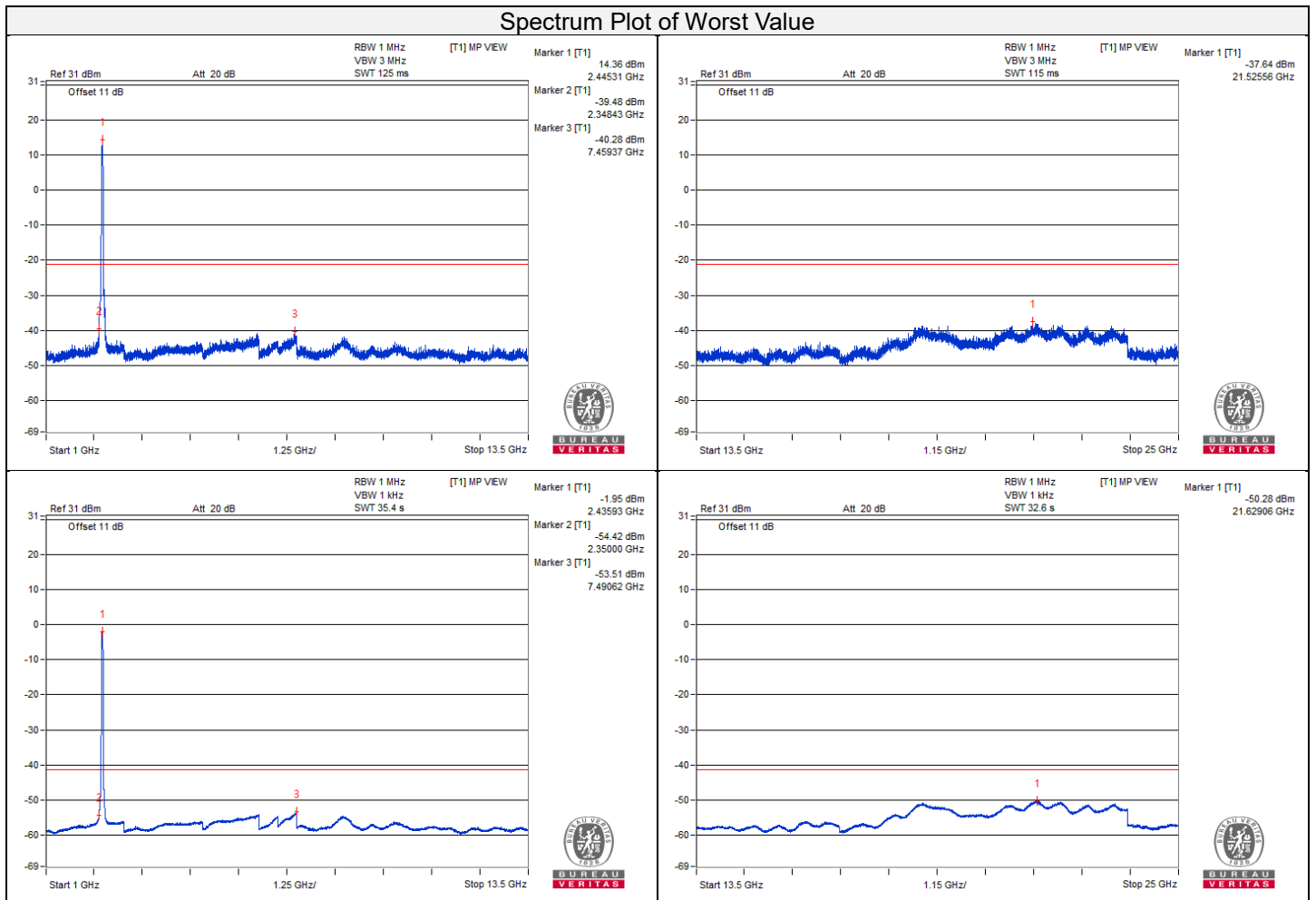
802.11be (EHT40)\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4896.87	54.99 PK	74	-19.01	-43.45	3.18	-40.27
2	4971.87	42.24 AV	54	-11.76	-56.2	3.18	-53.02
3	7459.37	58.16 PK	74	-15.84	-40.28	3.18	-37.10
4	7490.62	44.93 AV	54	-9.07	-53.51	3.18	-50.33

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

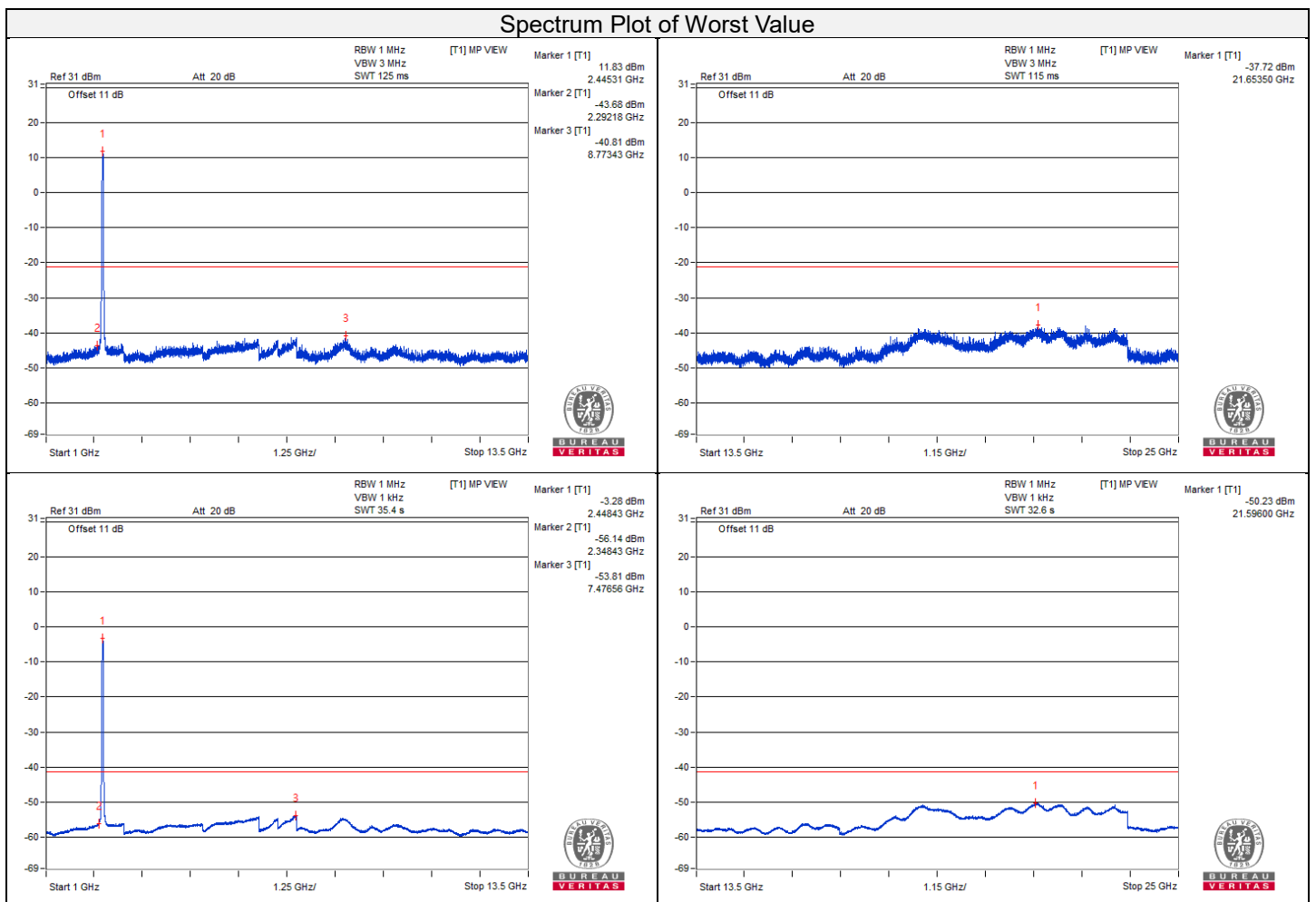


802.11be (EHT40)\_CH 9

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4906.25	55.04 PK	74	-18.96	-43.4	3.18	-40.22
2	4912.5	42.26 AV	54	-11.74	-56.18	3.18	-53.00
3	7487.5	57.16 PK	74	-16.84	-41.28	3.18	-38.10
4	7476.56	44.63 AV	54	-9.37	-53.81	3.18	-50.63

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

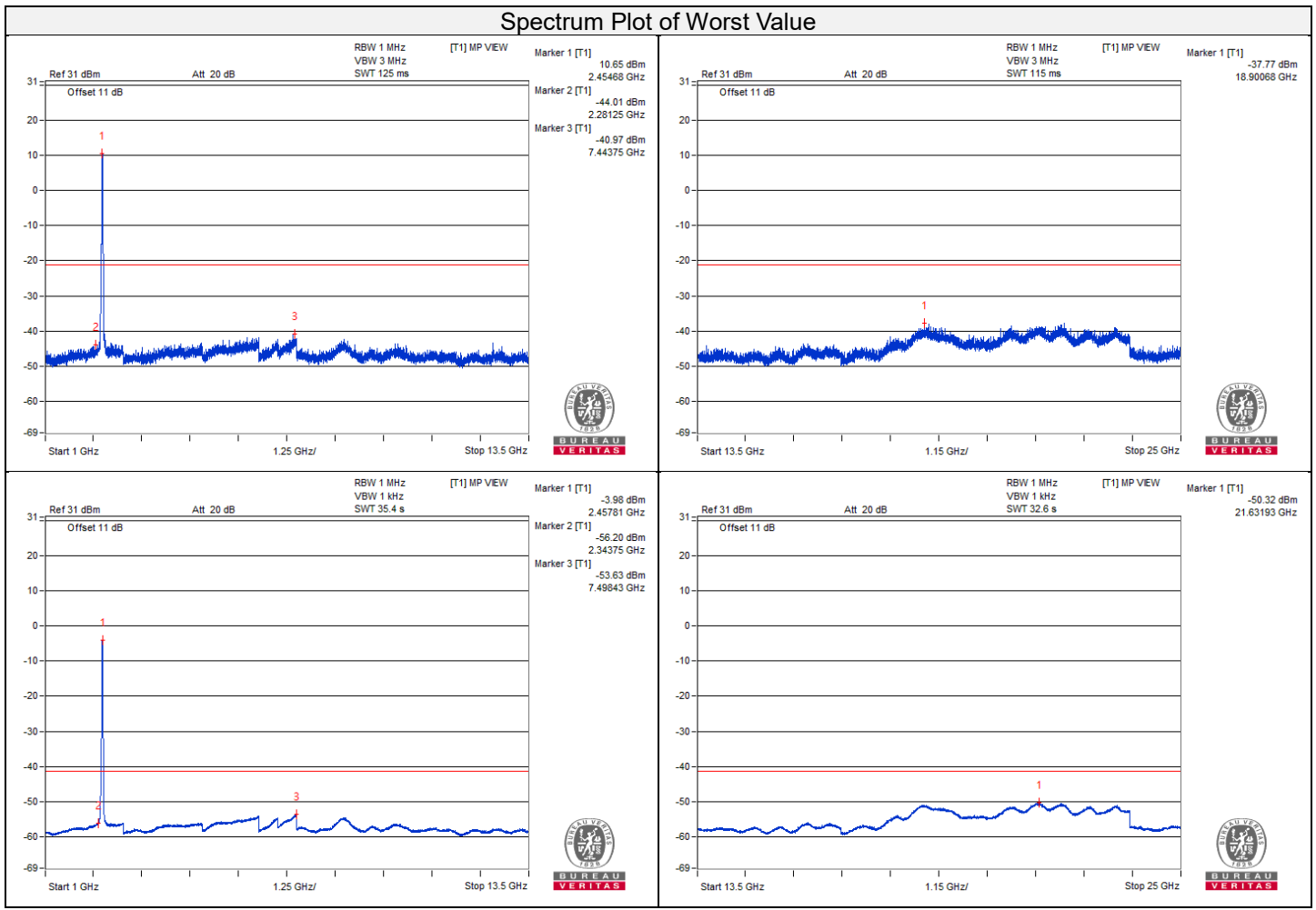


802.11be (EHT40)\_CH 10

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4923.43	54.32 PK	74	-19.68	-44.12	3.18	-40.94
2	4967.18	42.18 AV	54	-11.82	-56.26	3.18	-53.08
3	7410.93	57.47 PK	74	-16.53	-40.97	3.18	-37.79
4	7498.43	44.81 AV	54	-9.19	-53.63	3.18	-50.45

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



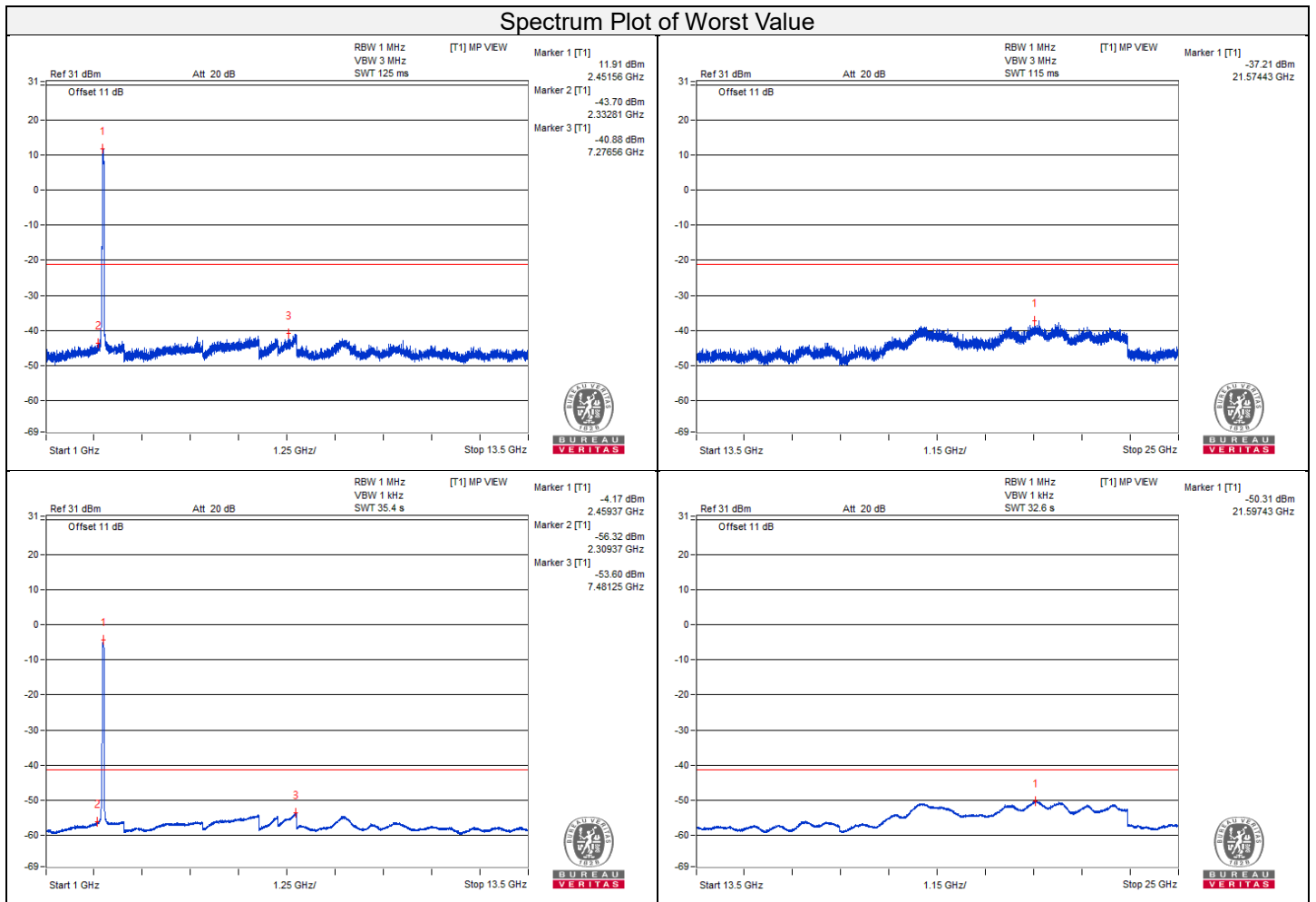
802.11be (EHT40)\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4917.18	56.44 PK	74	-17.56	-42	3.18	-38.82
2	4868.75	42.25 AV	54	-11.75	-56.19	3.18	-53.01
3	7276.56	57.56 PK	74	-16.44	-40.88	3.18	-37.70
4	7481.25	44.84 AV	54	-9.16	-53.6	3.18	-50.42

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

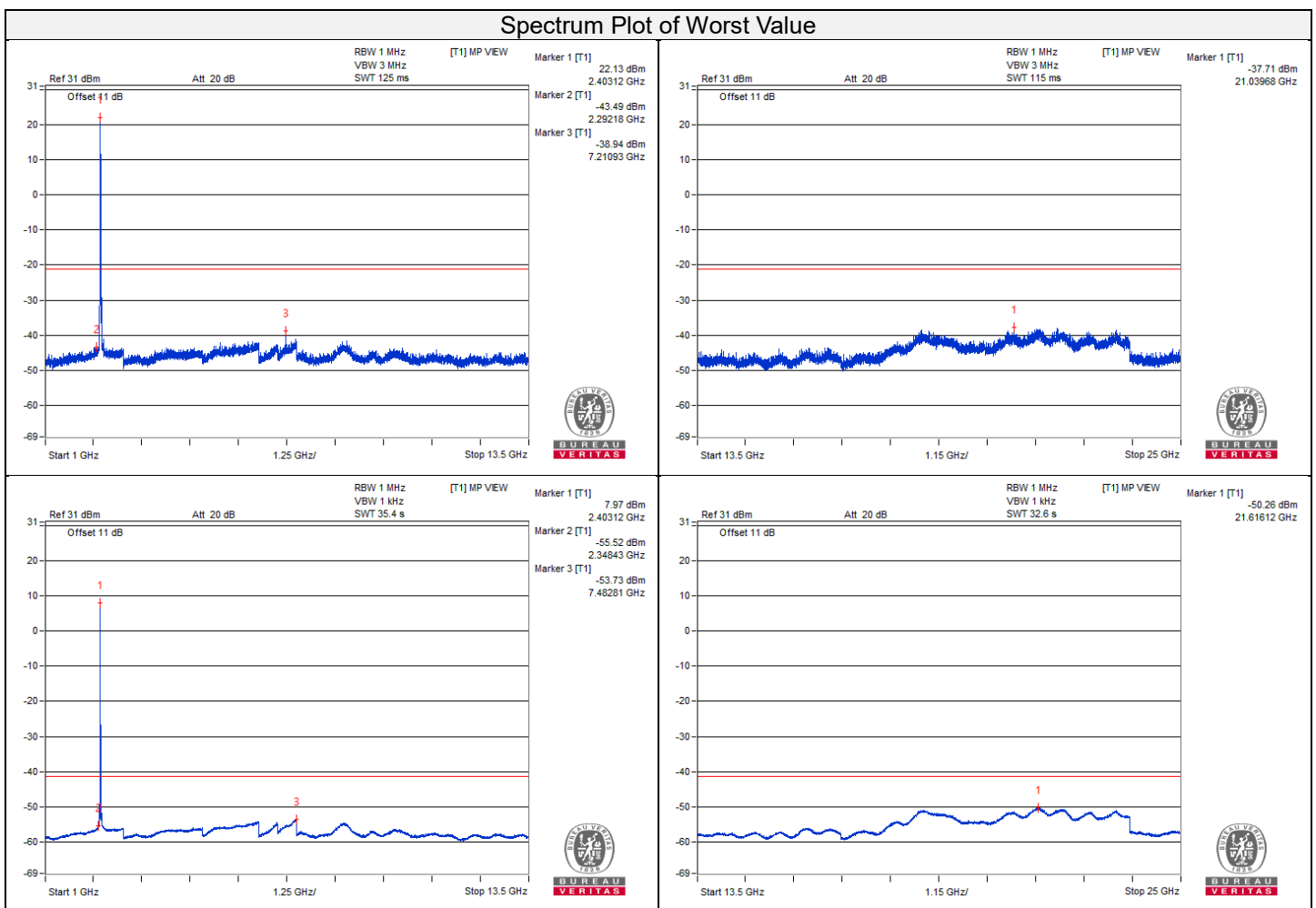


802.11be (EHT20) 26-tone RU\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4850	54.65 PK	74	-19.35	-43.79	3.18	-40.61
2	4806.25	42.6 AV	54	-11.4	-55.84	3.18	-52.66
3	7210.93	59.5 PK	74	-14.5	-38.94	3.18	-35.76
4	7482.81	44.71 AV	54	-9.29	-53.73	3.18	-50.55

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

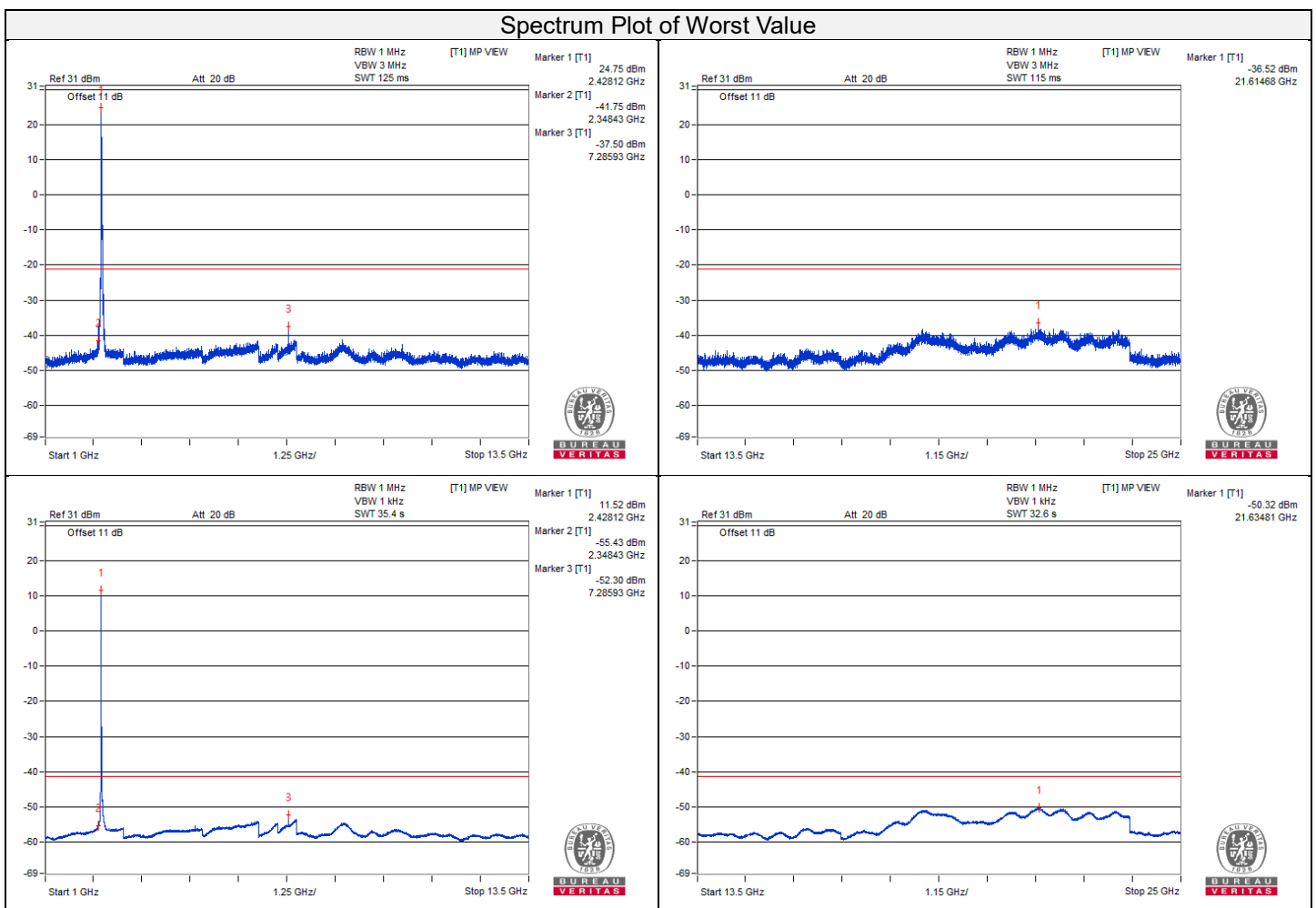


802.11be (EHT20) 26-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4939.06	54.83 PK	74	-19.17	-43.61	3.18	-40.43
2	4856.25	43.03 AV	54	-10.97	-55.41	3.18	-52.23
3	7285.93	60.94 PK	74	-13.06	-37.5	3.18	-34.32
4	7285.93	46.14 AV	54	-7.86	-52.3	3.18	-49.12

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



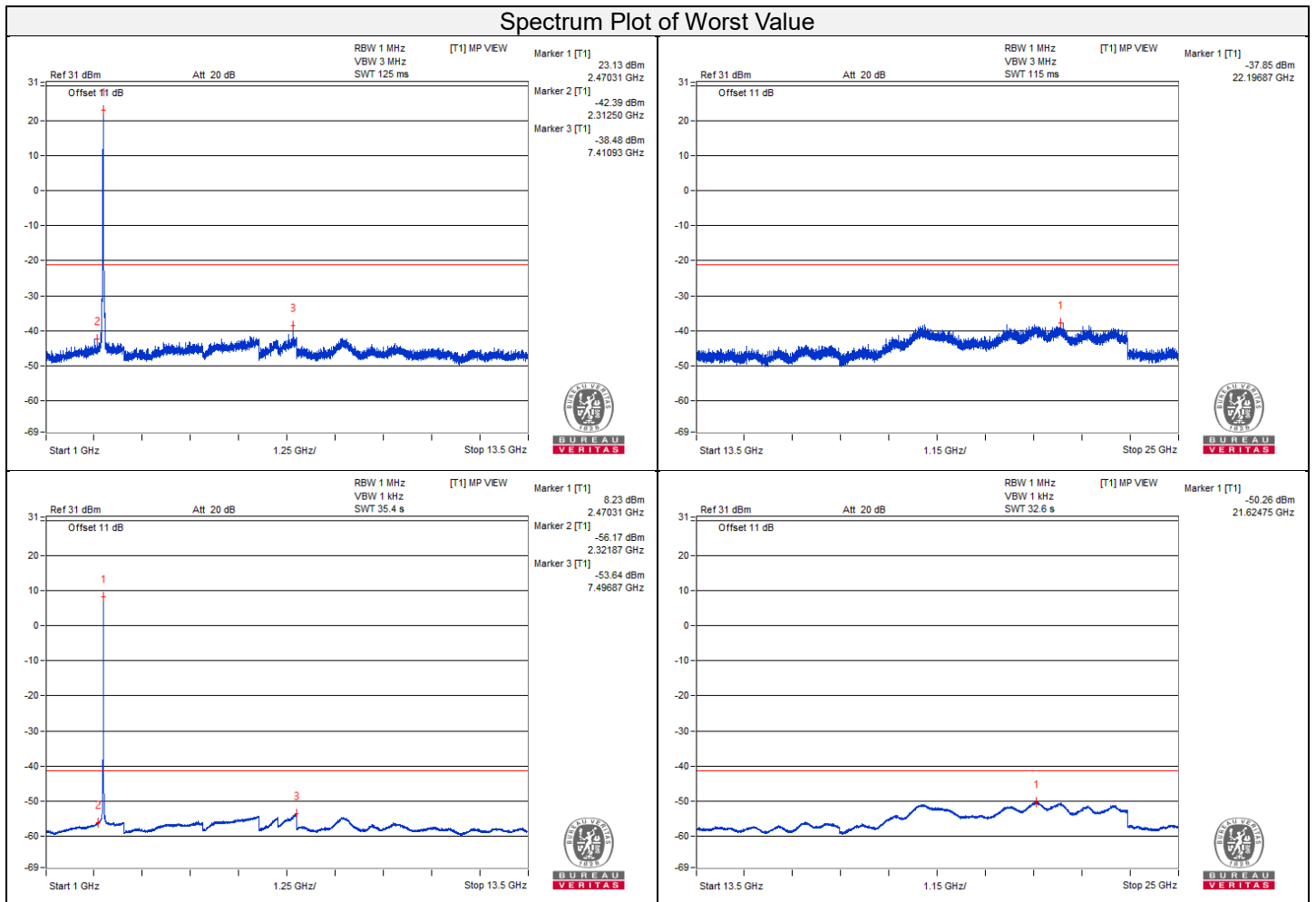
802.11be (EHT20) 26-tone RU\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4940.62	54.84 PK	74	-19.16	-43.6	3.18	-40.42
2	4940.62	42.82 AV	54	-11.18	-55.62	3.18	-52.44
3	7410.93	59.96 PK	74	-14.04	-38.48	3.18	-35.30
4	7496.87	44.8 AV	54	-9.2	-53.64	3.18	-50.46

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



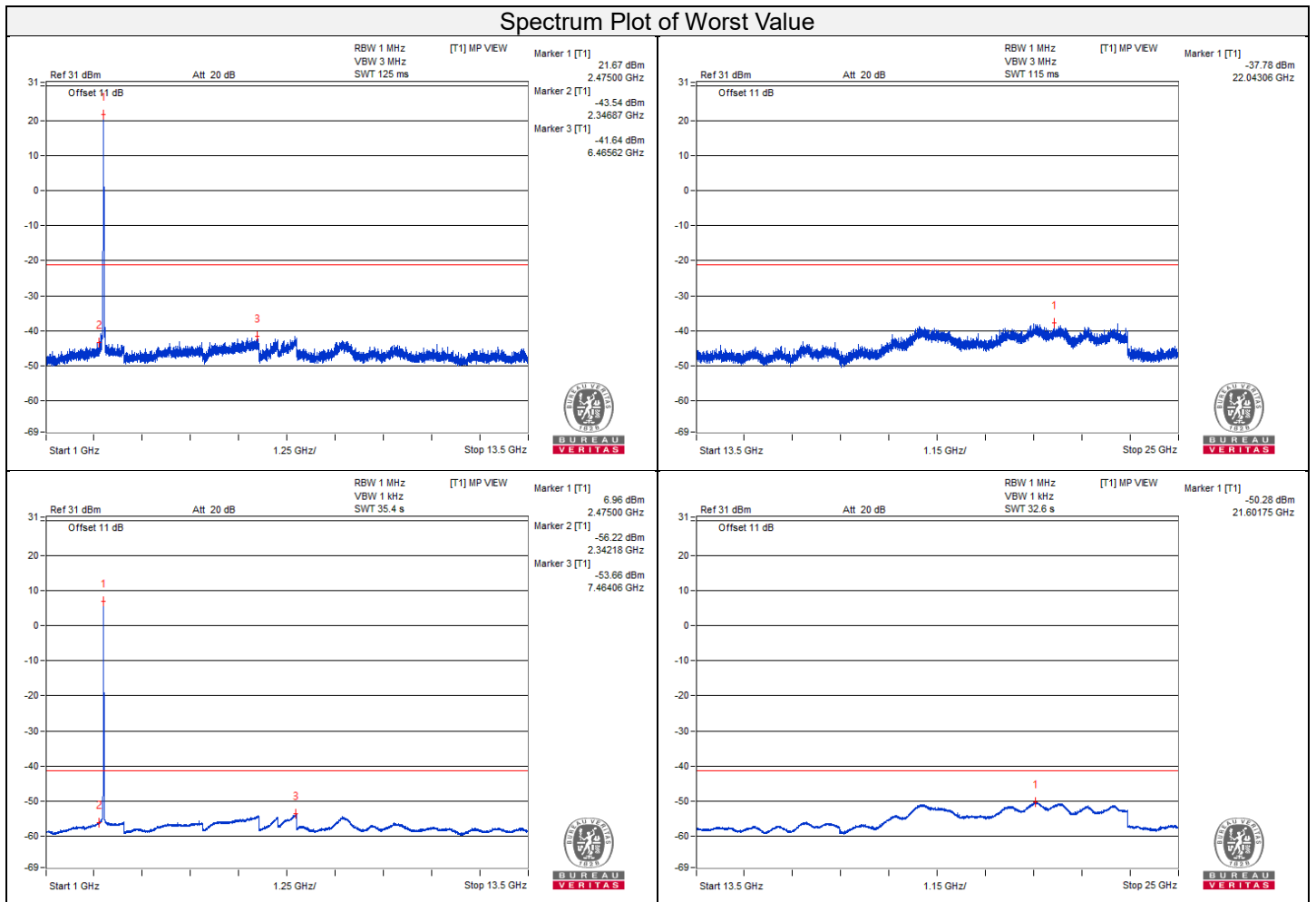
802.11be (EHT20) 26-tone RU\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4985.93	54.24 PK	74	-19.76	-44.2	3.18	-41.02
2	4951.56	42.74 AV	54	-11.26	-55.7	3.18	-52.52
3	7453.12	56.74 PK	74	-17.26	-41.7	3.18	-38.52
4	7464.06	44.78 AV	54	-9.22	-53.66	3.18	-50.48

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



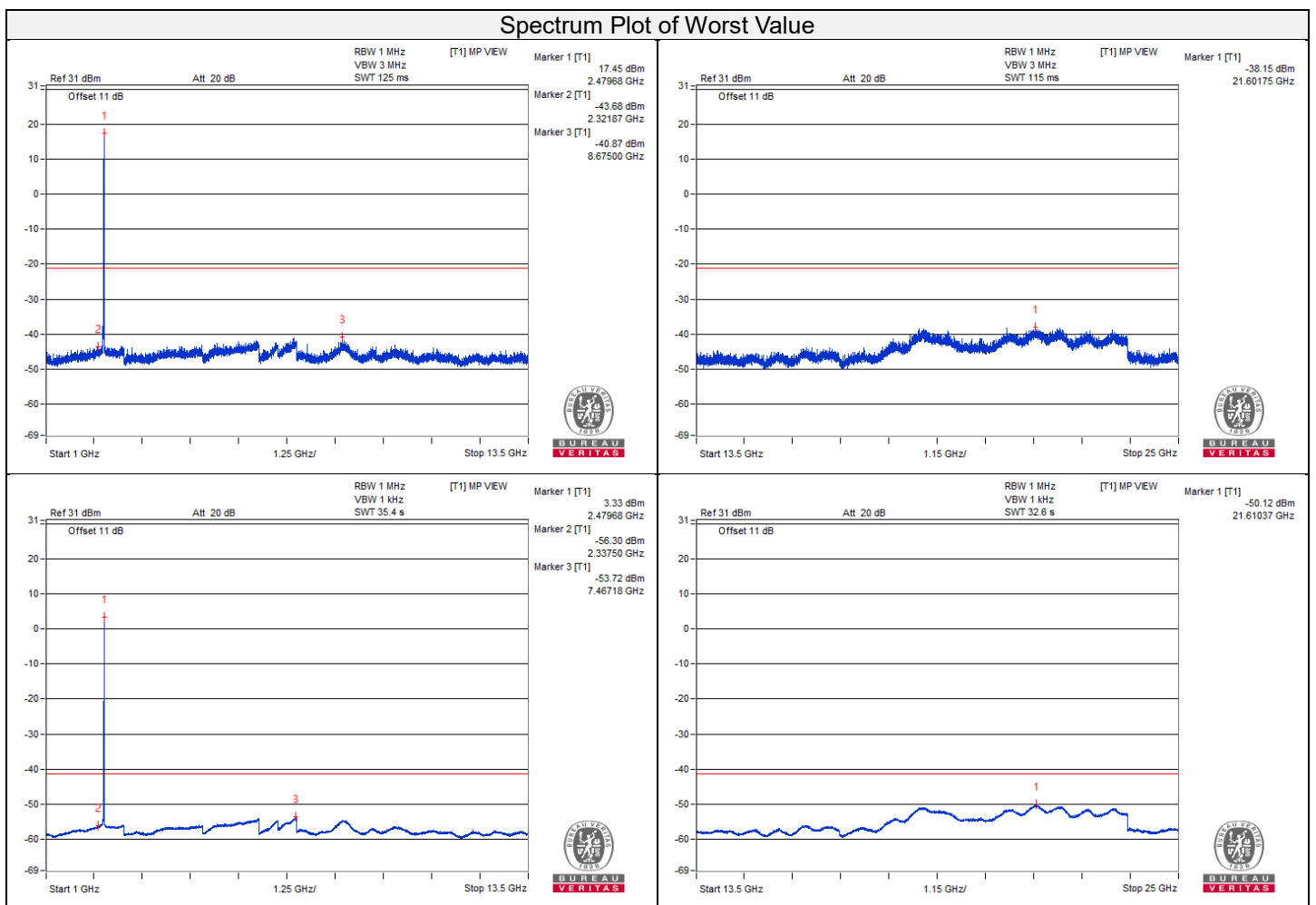


802.11be (EHT20) 26-tone RU\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4848.43	54.78 PK	74	-19.22	-43.66	3.18	-40.48
2	4965.62	42.38 AV	54	-11.62	-56.06	3.18	-52.88
3	7414.06	57.34 PK	74	-16.66	-41.1	3.18	-37.92
4	7467.18	44.72 AV	54	-9.28	-53.72	3.18	-50.54

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



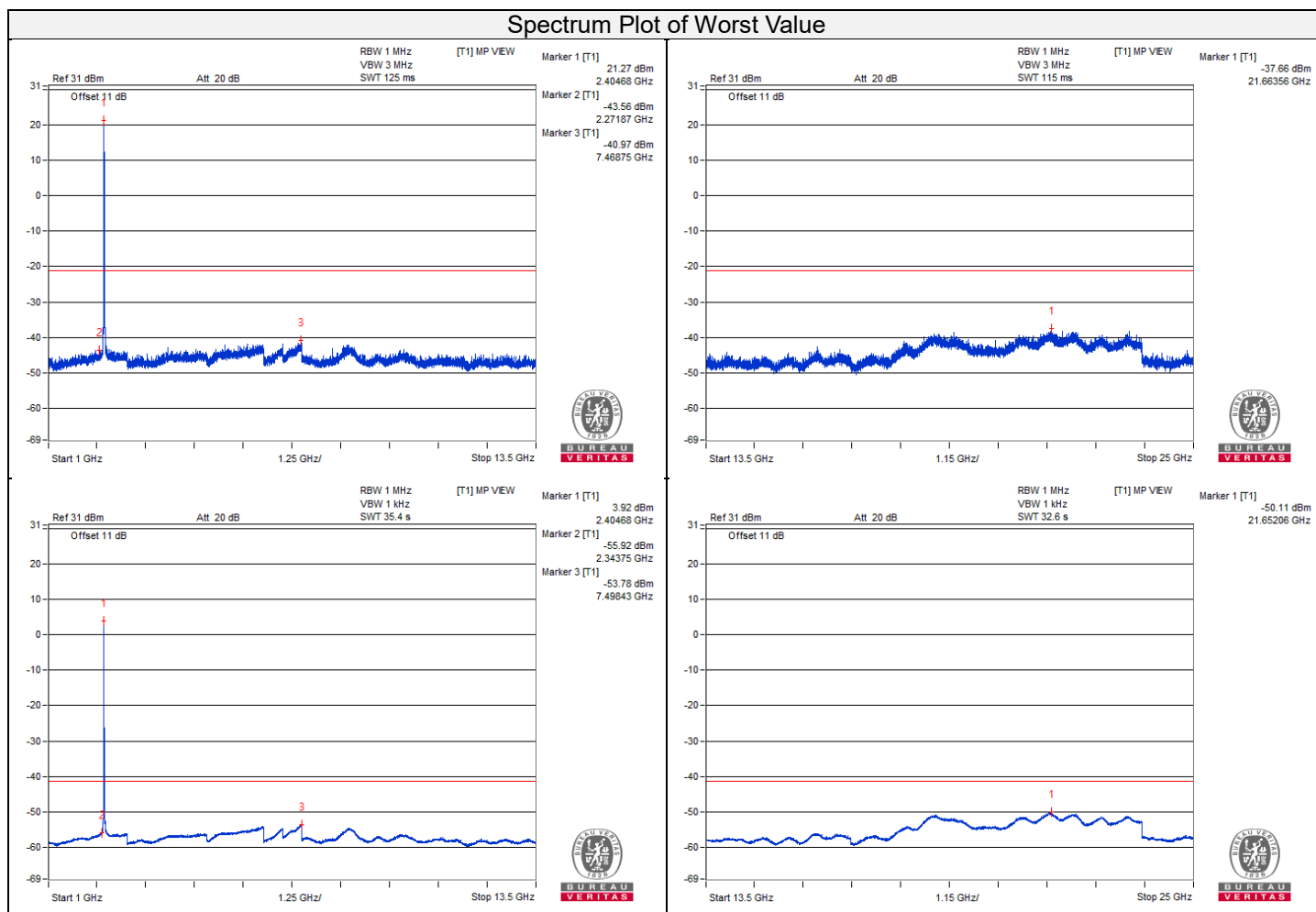
### 802.11be (EHT20) 52-tone RU\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4871.87	54.61 PK	74	-19.39	-43.83	3.18	-40.65
2	4809.37	42.26 AV	54	-11.74	-56.18	3.18	-53.00
3	7468.75	57.47 PK	74	-16.53	-40.97	3.18	-37.79
4	7495.31	44.66 AV	54	-9.34	-53.78	3.18	-50.60

**Remarks:**

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

### Spectrum Plot of Worst Value



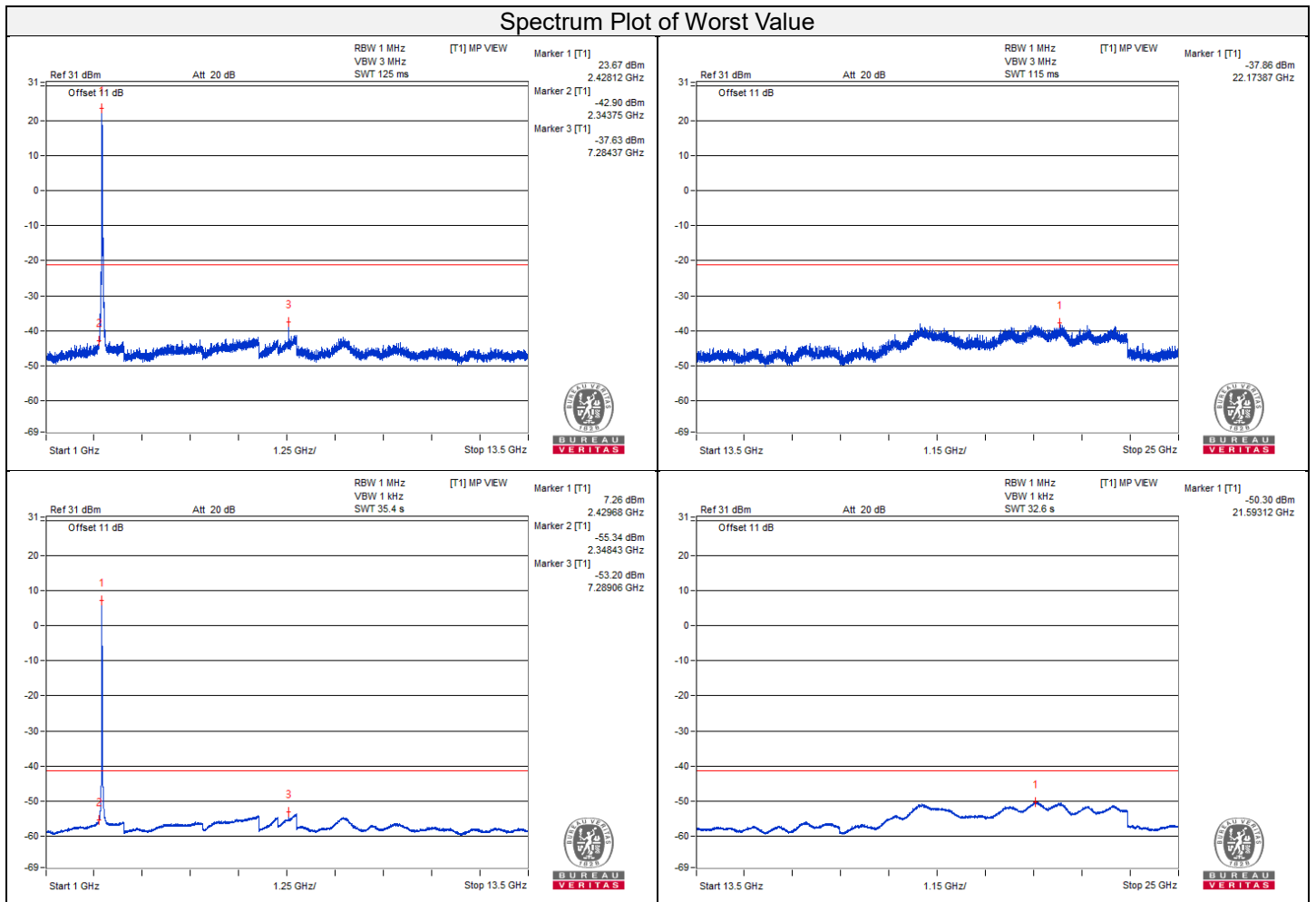
802.11be (EHT20) 52-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4989.06	55.73 PK	74	-18.27	-42.71	3.18	-39.53
2	4859.37	42.55 AV	54	-11.45	-55.89	3.18	-52.71
3	7284.37	60.81 PK	74	-13.19	-37.63	3.18	-34.45
4	7289.06	45.24 AV	54	-8.76	-53.2	3.18	-50.02

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



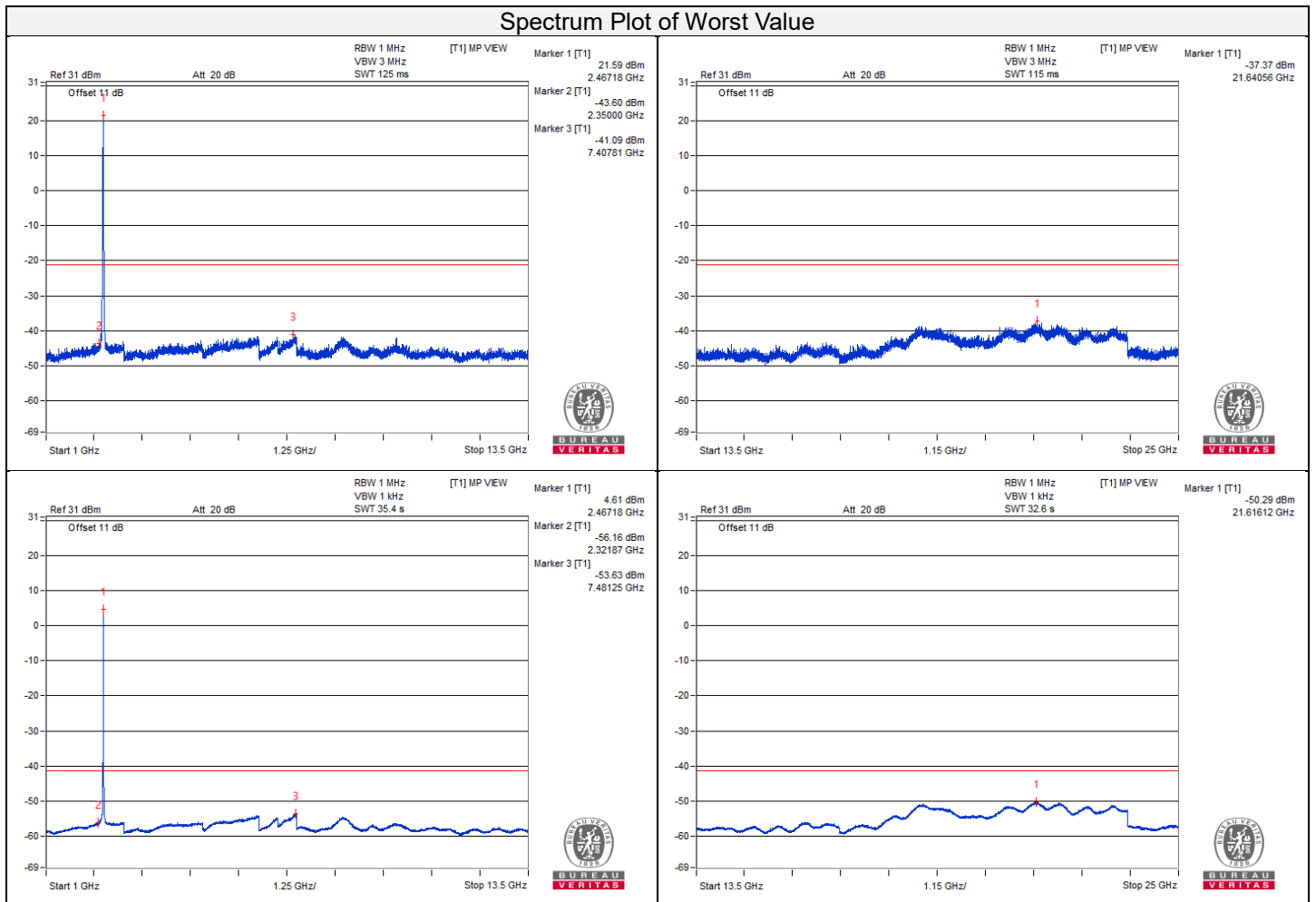
802.11be (EHT20) 52-tone RU\_CH 11

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4873.43	54.93 PK	74	-19.07	-43.51	3.18	-40.33
2	4939.06	42.39 AV	54	-11.61	-56.05	3.18	-52.87
3	7407.81	57.35 PK	74	-16.65	-41.09	3.18	-37.91
4	7481.25	44.81 AV	54	-9.19	-53.63	3.18	-50.45

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

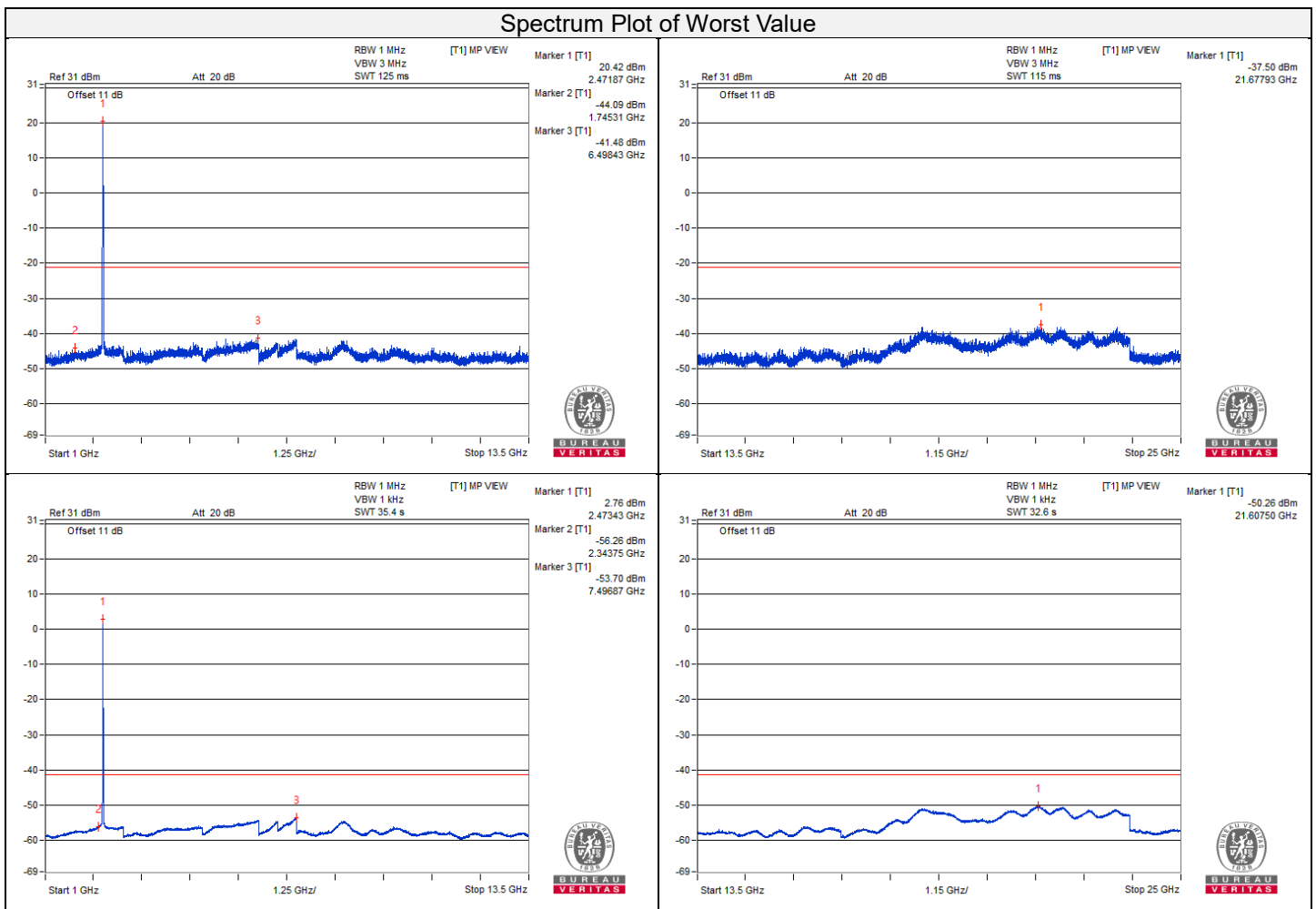


802.11be (EHT20) 52-tone RU\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4821.87	55.7 PK	74	-18.3	-42.74	3.18	-39.56
2	4948.43	42.43 AV	54	-11.57	-56.01	3.18	-52.83
3	7475	56.77 PK	74	-17.23	-41.67	3.18	-38.49
4	7496.87	44.74 AV	54	-9.26	-53.7	3.18	-50.52

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



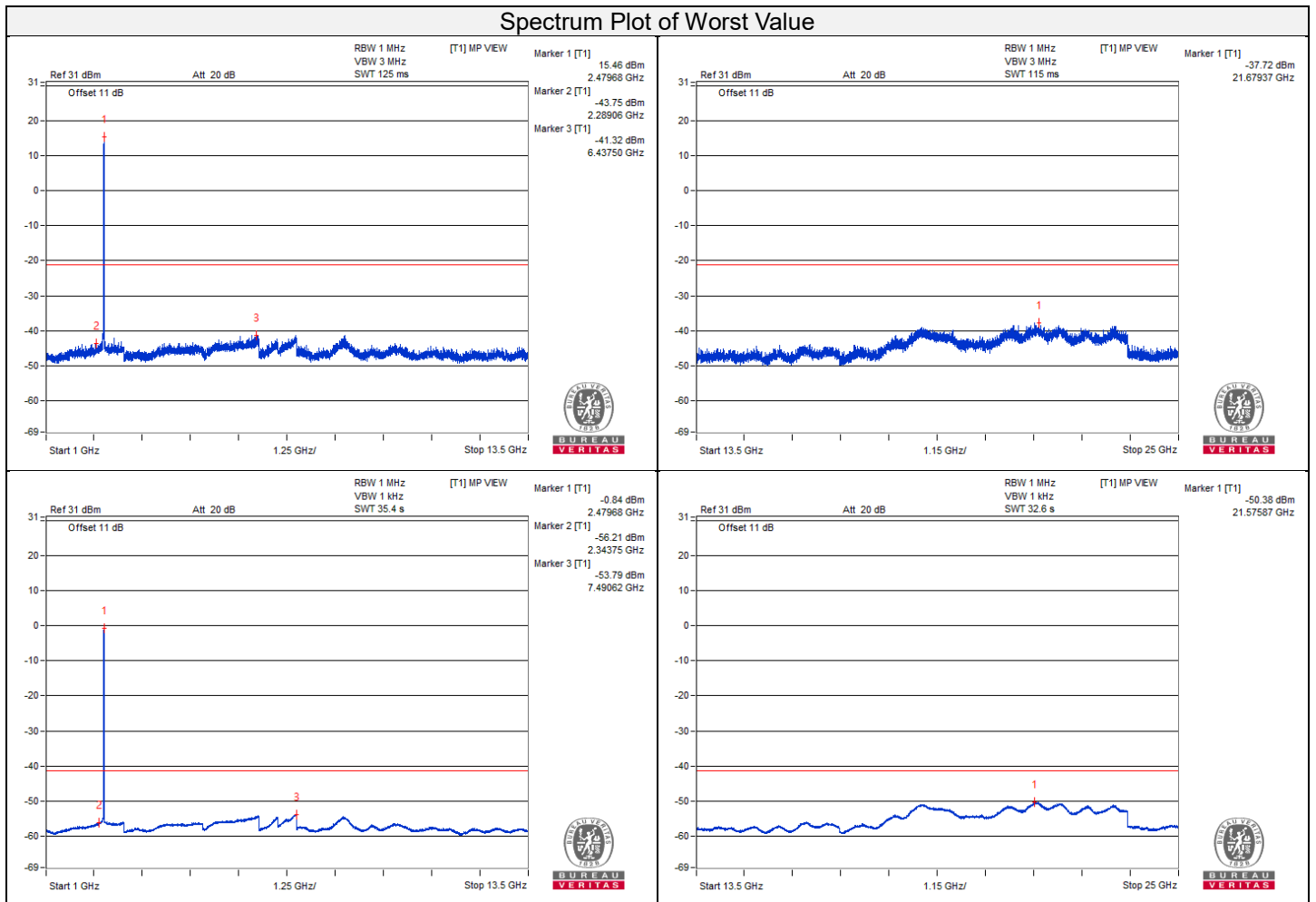
802.11be (EHT20) 52-tone RU\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4864.06	54.62 PK	74	-19.38	-43.82	3.18	-40.64
2	4810.93	42.27 AV	54	-11.73	-56.17	3.18	-52.99
3	7462.5	57.05 PK	74	-16.95	-41.39	3.18	-38.21
4	7490.62	44.65 AV	54	-9.35	-53.79	3.18	-50.61

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

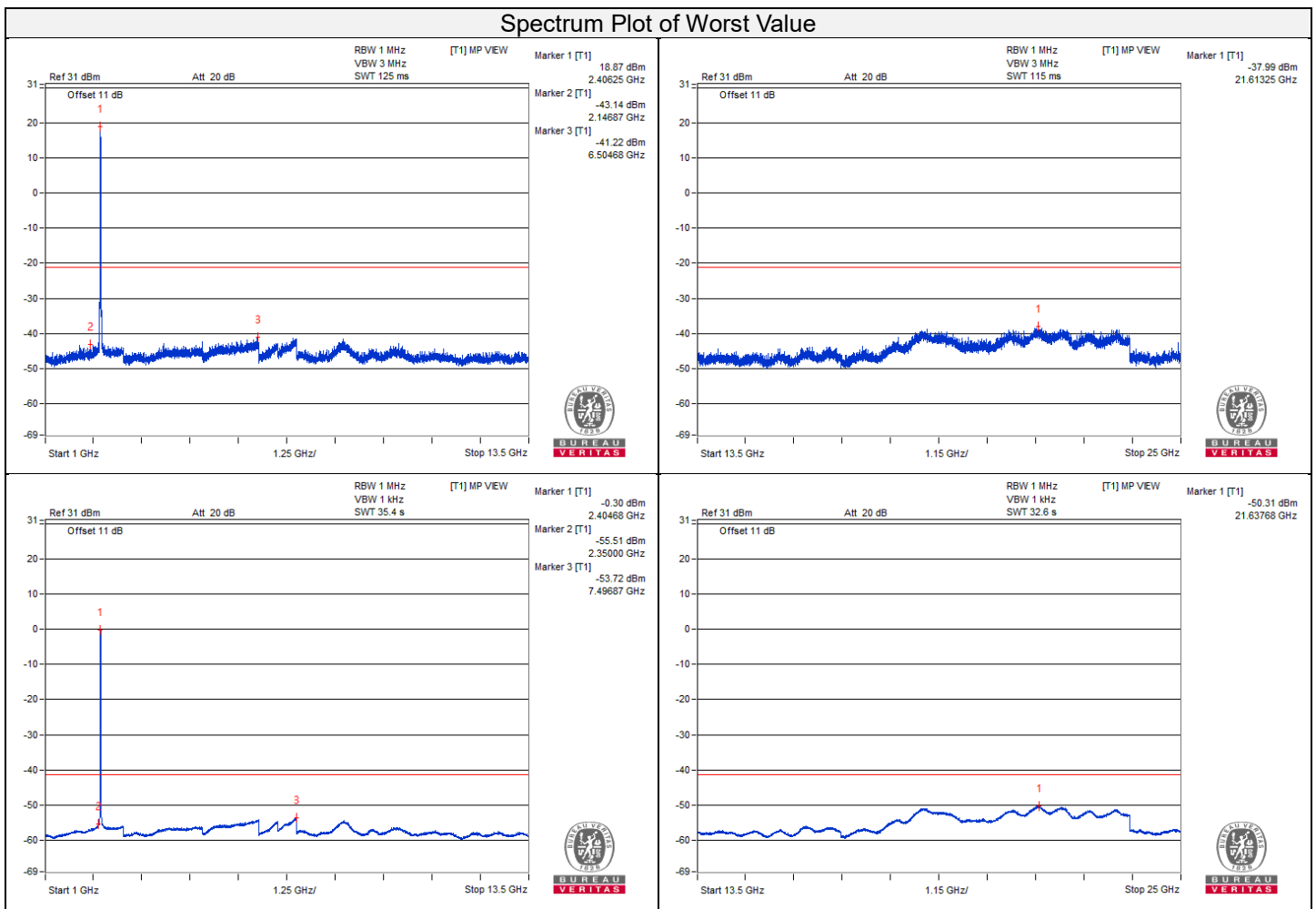


802.11be (EHT20) 106-tone RU\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4878.12	54.9 PK	74	-19.1	-43.54	3.18	-40.36
2	4898.43	42.31 AV	54	-11.69	-56.13	3.18	-52.95
3	7412.5	56.97 PK	74	-17.03	-41.47	3.18	-38.29
4	7496.87	44.72 AV	54	-9.28	-53.72	3.18	-50.54

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



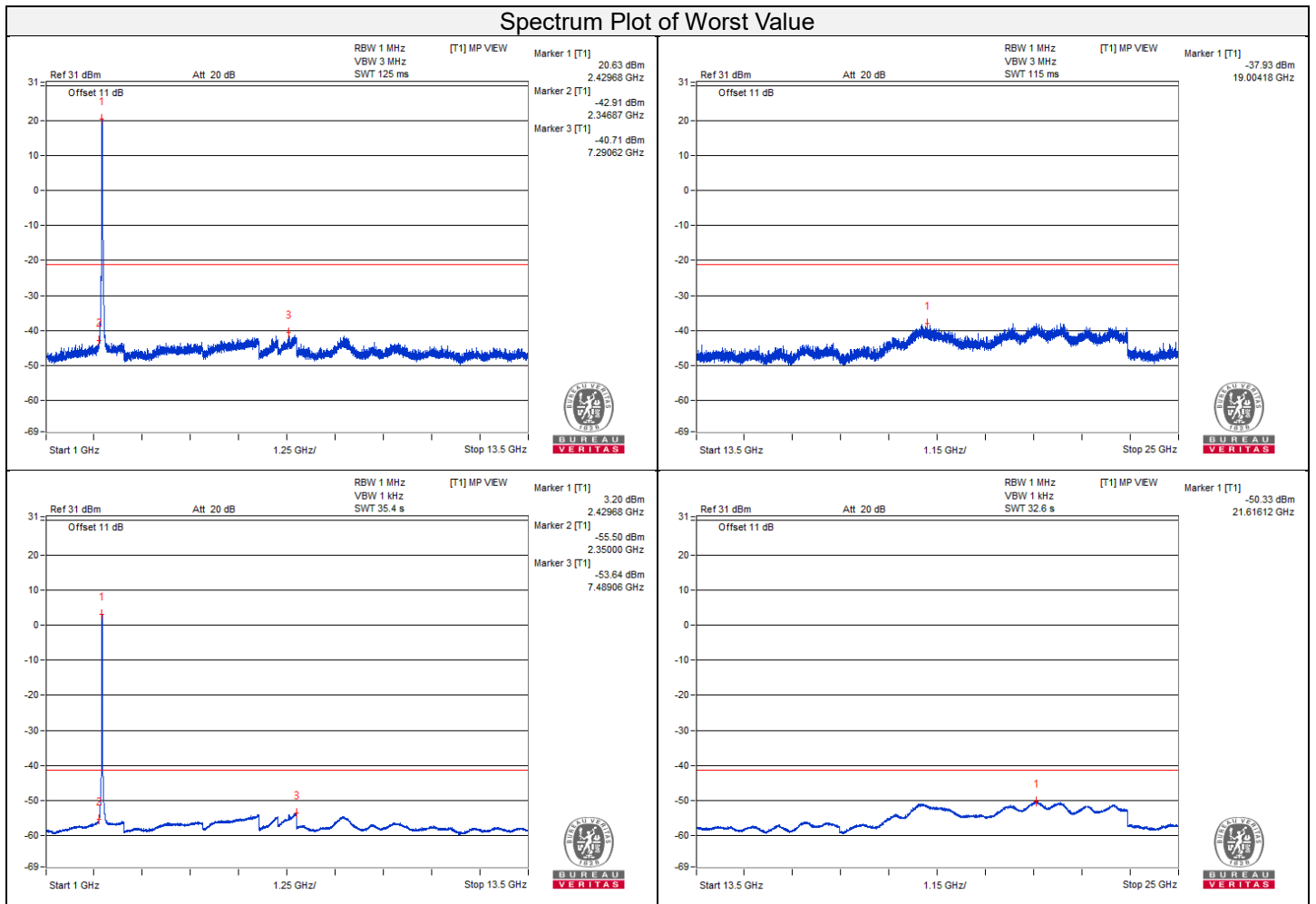
802.11be (EHT20) 106-tone RU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4832.81	54.61 PK	74	-19.39	-43.83	3.18	-40.65
2	4868.75	42.24 AV	54	-11.76	-56.2	3.18	-53.02
3	7290.62	57.73 PK	74	-16.27	-40.71	3.18	-37.53
4	7487.5	44.8 AV	54	-9.2	-53.64	3.18	-50.46

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value





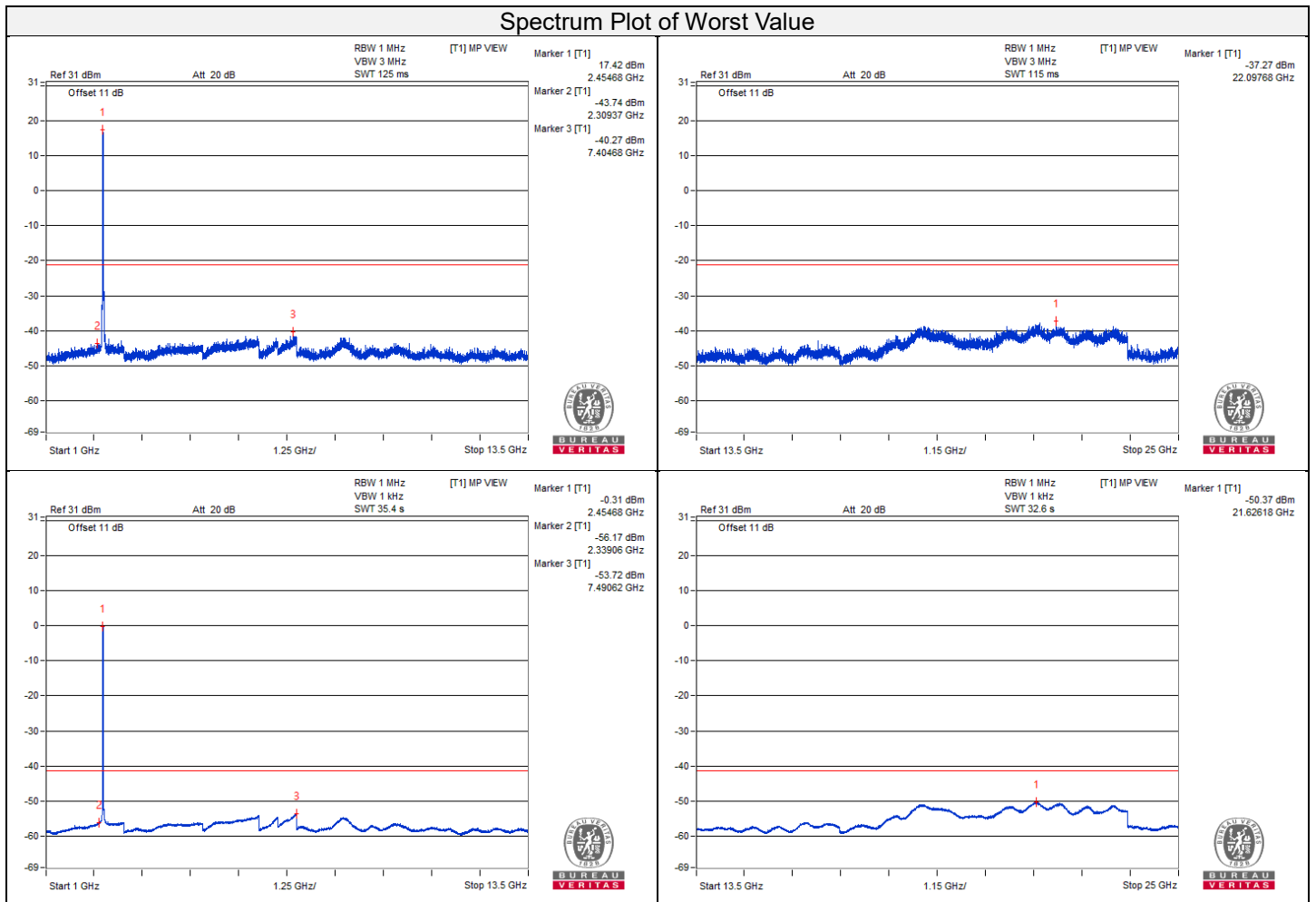
802.11be (EHT20) 106-tone RU\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4803.12	55.06 PK	74	-18.94	-43.38	3.18	-40.20
2	4904.68	42.27 AV	54	-11.73	-56.17	3.18	-52.99
3	7404.68	58.17 PK	74	-15.83	-40.27	3.18	-37.09
4	7490.62	44.72 AV	54	-9.28	-53.72	3.18	-50.54

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

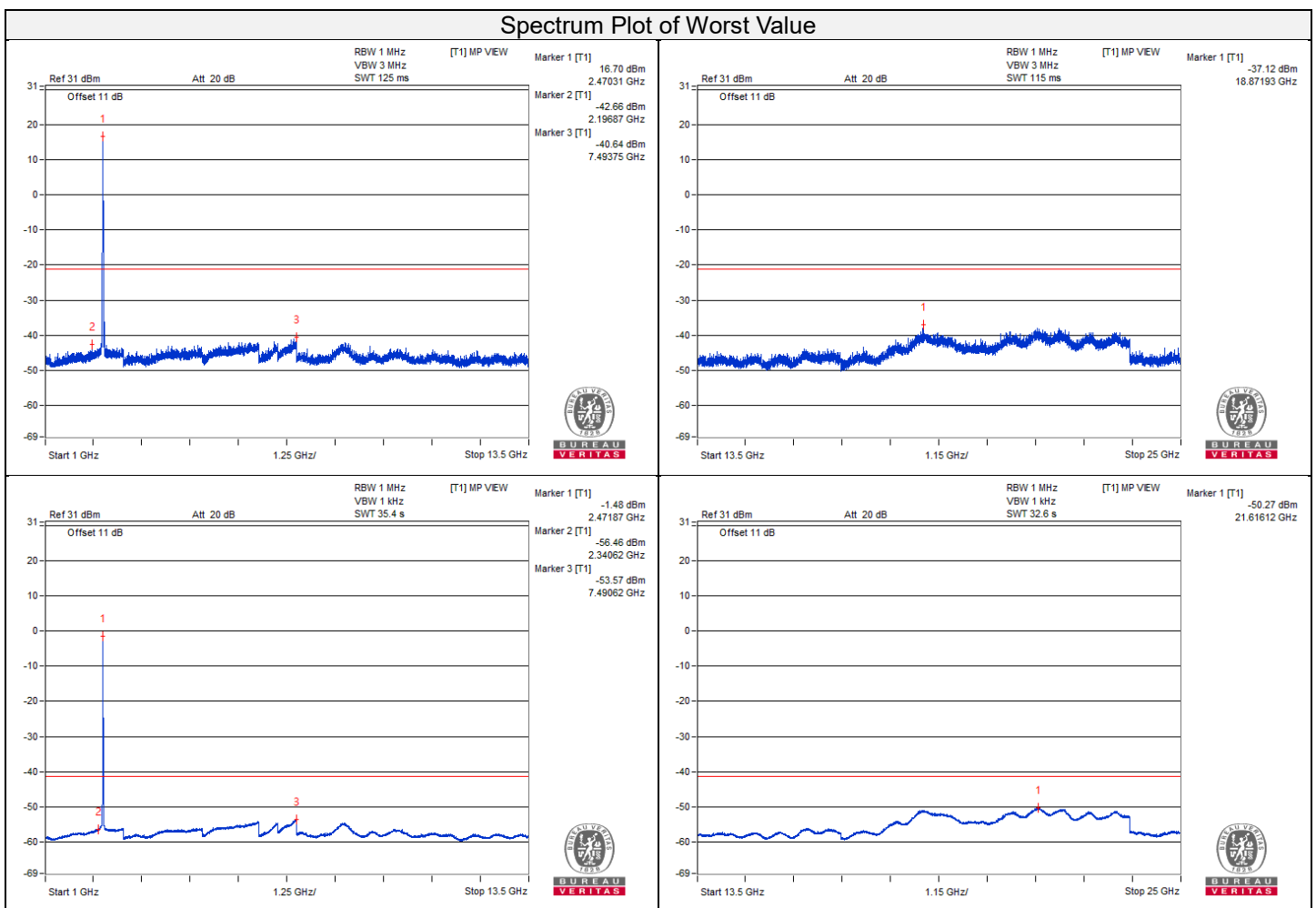


802.11be (EHT20) 106-tone RU\_CH 12

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4937.5	55.54 PK	74	-18.46	-42.9	3.18	-39.72
2	4984.37	42.27 AV	54	-11.73	-56.17	3.18	-52.99
3	7493.75	57.8 PK	74	-16.2	-40.64	3.18	-37.46
4	7490.62	44.87 AV	54	-9.13	-53.57	3.18	-50.39

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

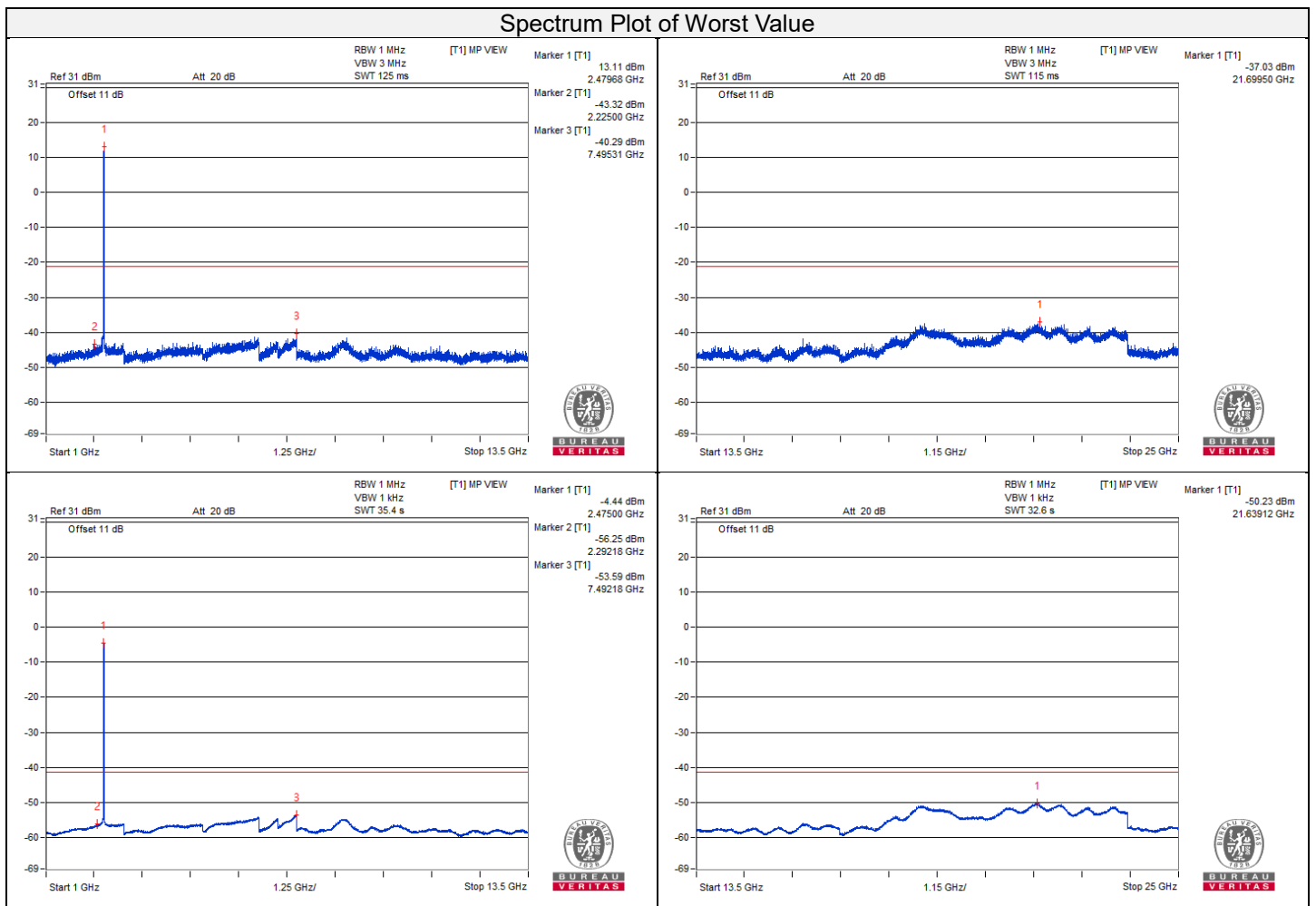


802.11be (EHT20) 106-tone RU\_CH 13

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4882.81	54.88 PK	74	-19.12	-43.56	3.18	-40.38
2	4885.93	42.19 AV	54	-11.81	-56.25	3.18	-53.07
3	7495.31	58.15 PK	74	-15.85	-40.29	3.18	-37.11
4	7492.18	44.85 AV	54	-9.15	-53.59	3.18	-50.41

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.





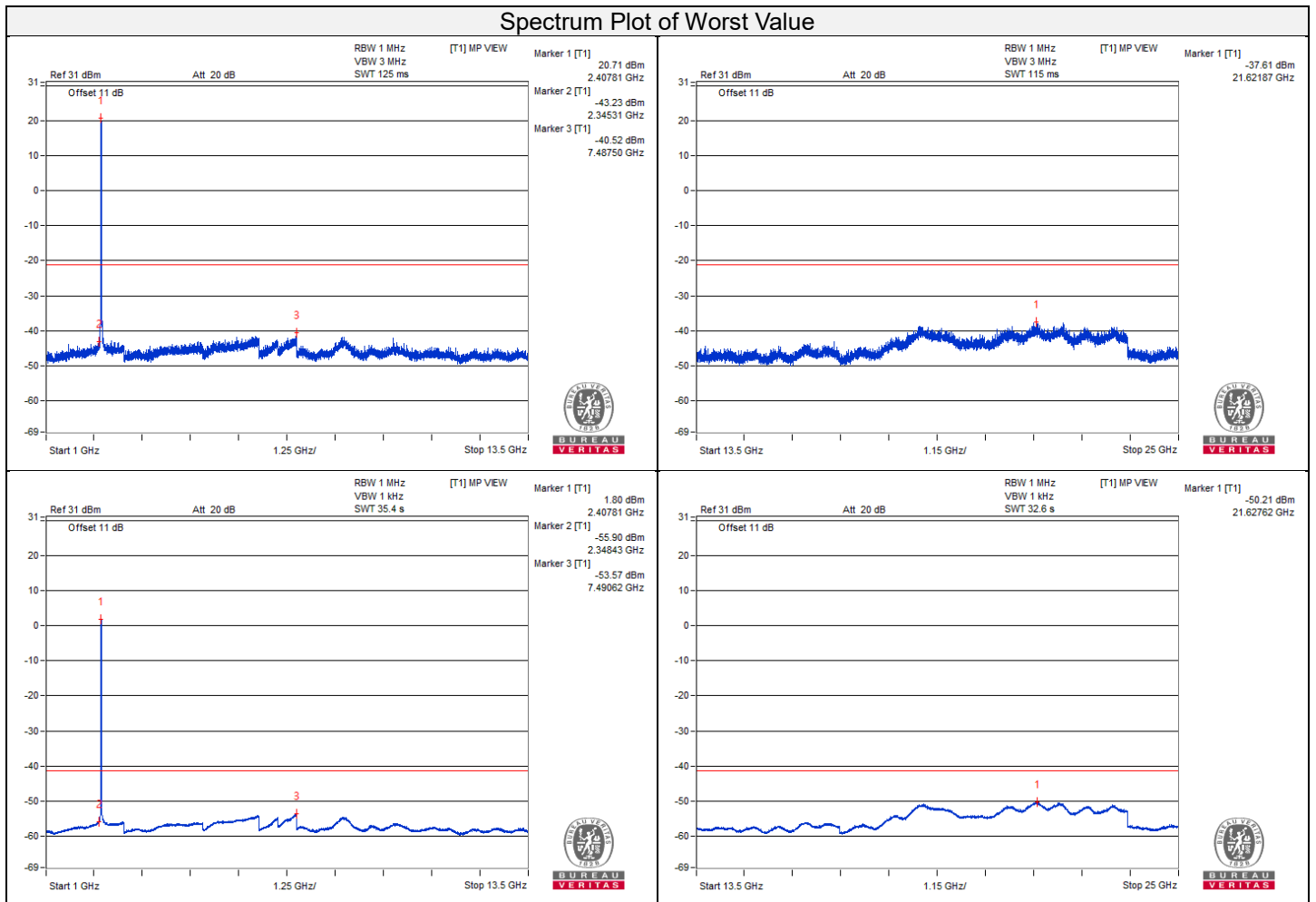
802.11be (EHT20) 52+26-tone MRU\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4928.12	55.3 PK	74	-18.7	-43.14	3.18	-39.96
2	4929.68	42.3 AV	54	-11.7	-56.14	3.18	-52.96
3	7487.5	57.92 PK	74	-16.08	-40.52	3.18	-37.34
4	7490.62	44.87 AV	54	-9.13	-53.57	3.18	-50.39

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

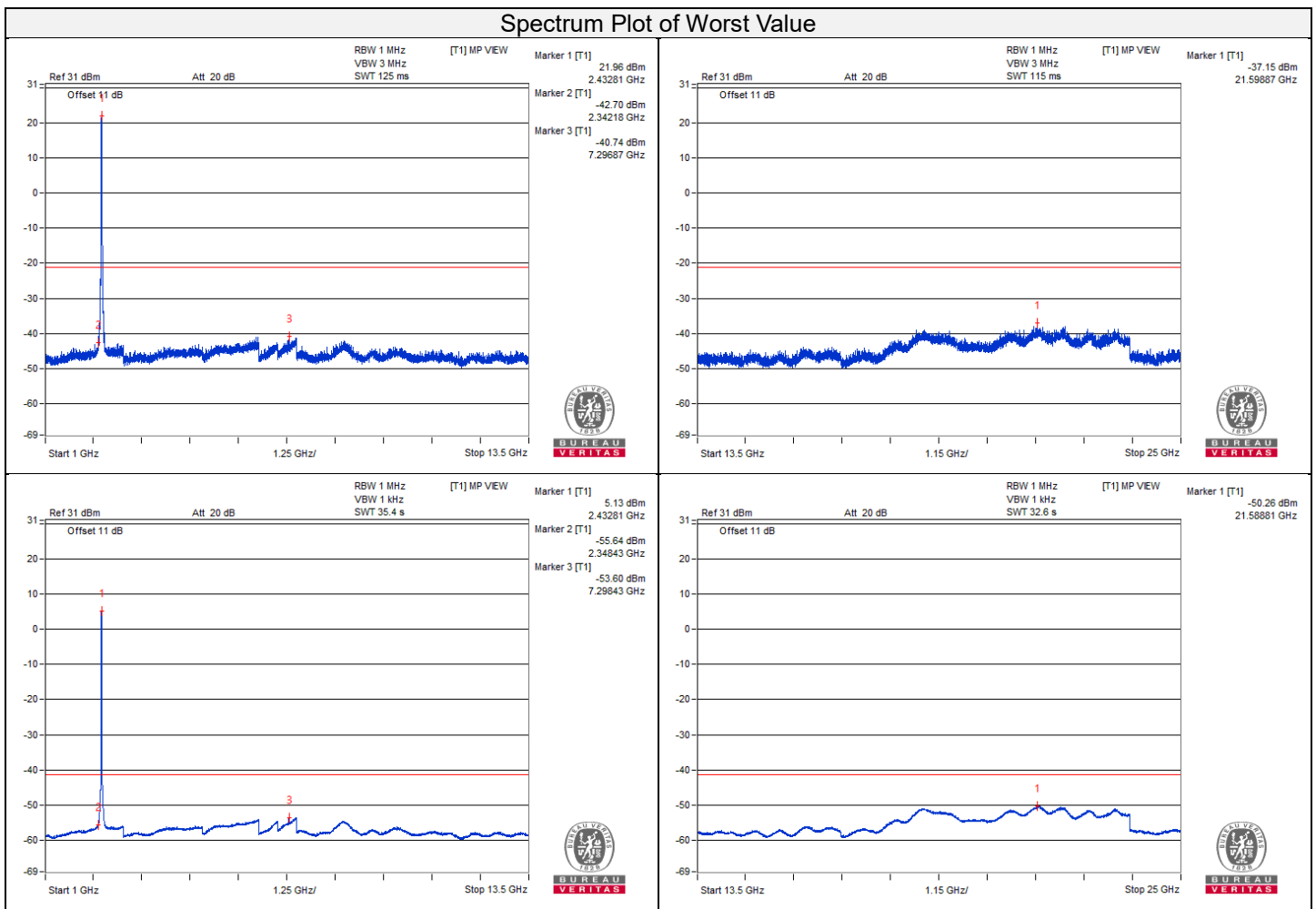


802.11be (EHT20) 52+26-tone MRU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4948.43	55.35 PK	74	-18.65	-43.09	3.18	-39.91
2	4867.18	42.51 AV	54	-11.49	-55.93	3.18	-52.75
3	7296.87	57.7 PK	74	-16.3	-40.74	3.18	-37.56
4	7298.43	44.84 AV	54	-9.16	-53.6	3.18	-50.42

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.



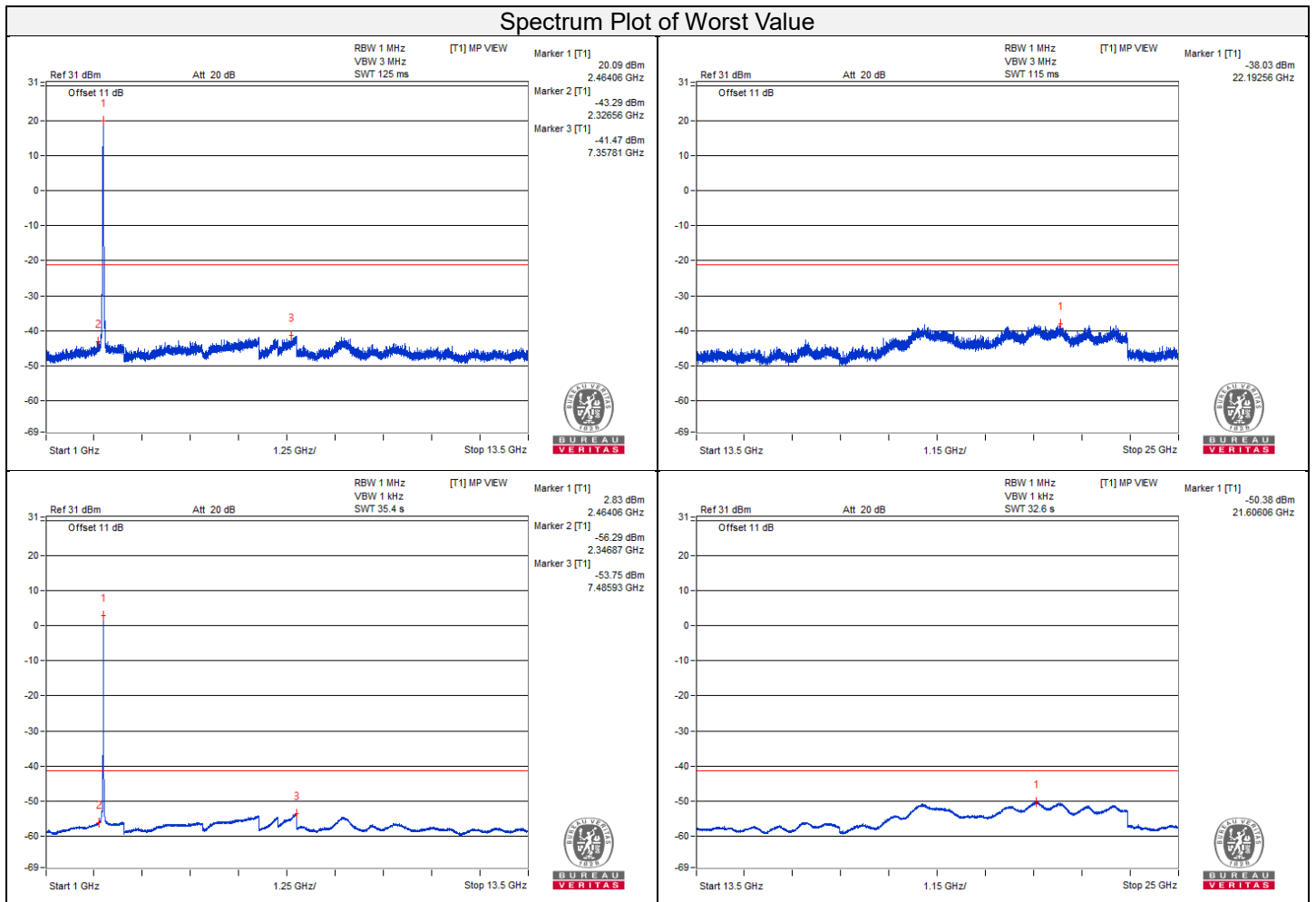
802.11be (EHT20) 52+26-tone MRU\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4857.81	55.16 PK	74	-18.84	-43.28	3.18	-40.10
2	4934.37	42.27 AV	54	-11.73	-56.17	3.18	-52.99
3	7357.81	56.97 PK	74	-17.03	-41.47	3.18	-38.29
4	7485.93	44.69 AV	54	-9.31	-53.75	3.18	-50.57

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



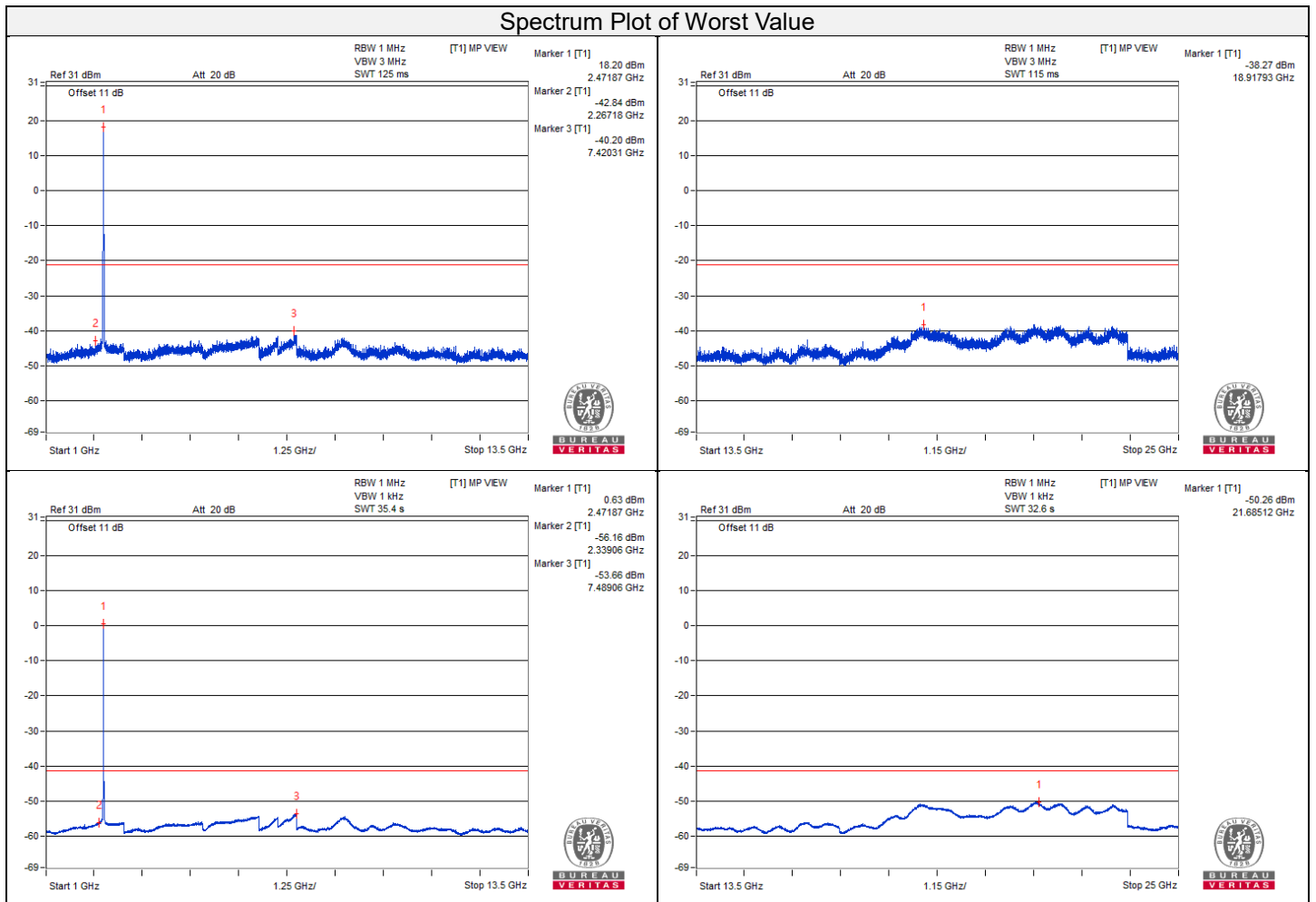
802.11be (EHT20) 52+26-tone MRU\_CH 12

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4950	55.57 PK	74	-18.43	-42.87	3.18	-39.69
2	4942.18	42.5 AV	54	-11.5	-55.94	3.18	-52.76
3	7420.31	58.24 PK	74	-15.76	-40.2	3.18	-37.02
4	7489.06	44.78 AV	54	-9.22	-53.66	3.18	-50.48

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



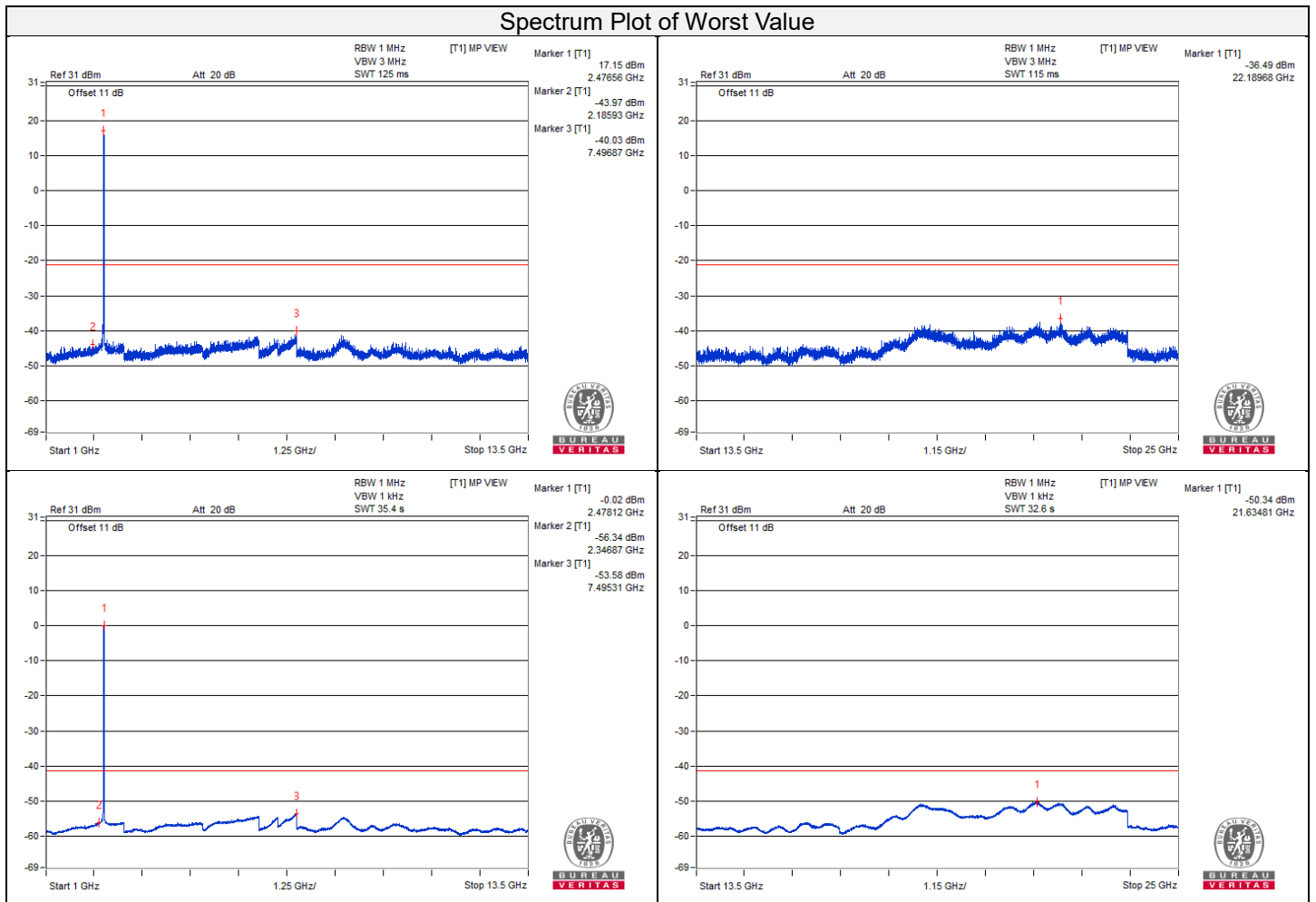
802.11be (EHT20) 52+26-tone MRU\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4892.18	55.39 PK	74	-18.61	-43.05	3.18	-39.87
2	4914.06	42.23 AV	54	-11.77	-56.21	3.18	-53.03
3	7496.87	58.41 PK	74	-15.59	-40.03	3.18	-36.85
4	7495.31	44.86 AV	54	-9.14	-53.58	3.18	-50.40

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value





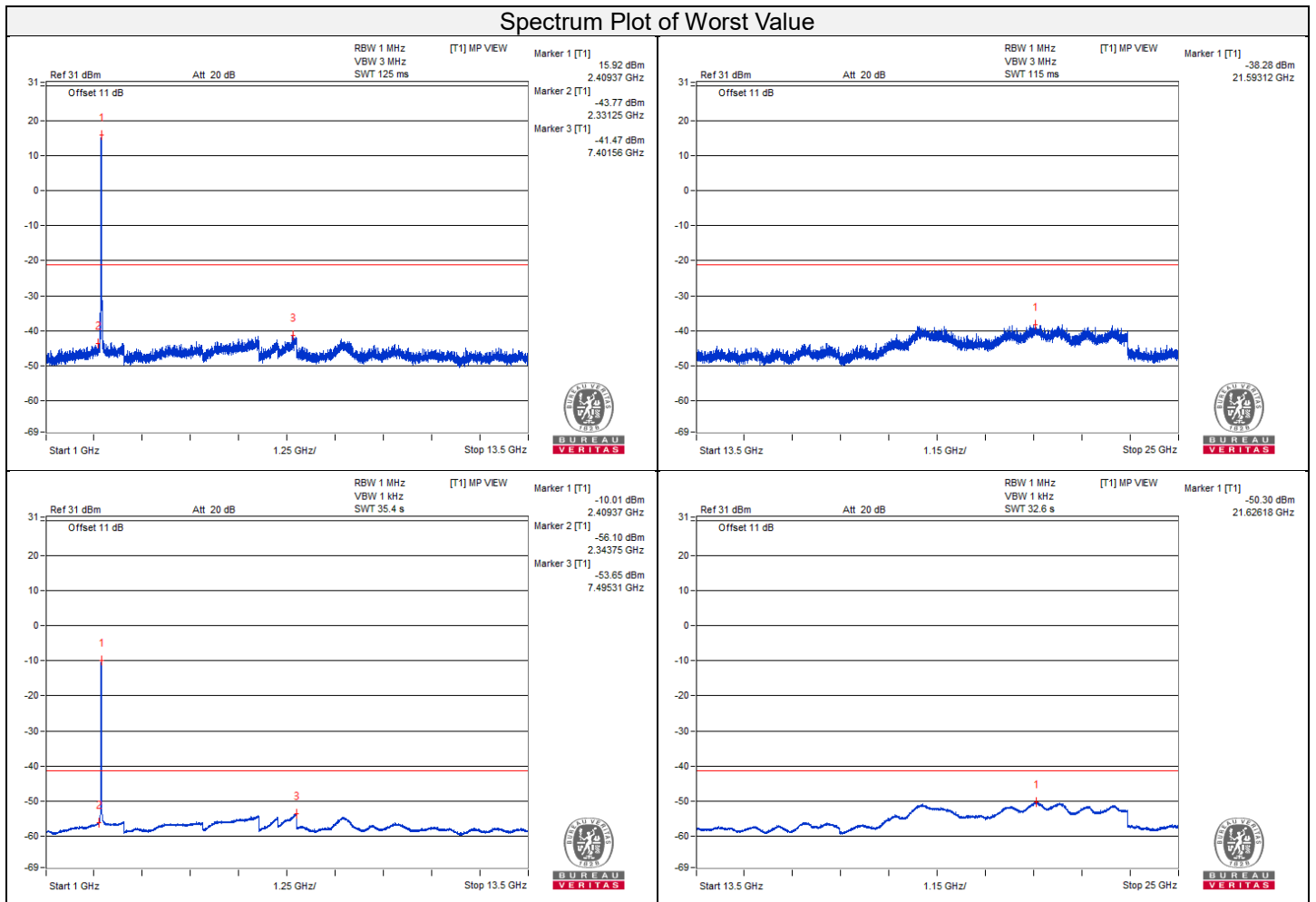
802.11be (EHT20) 106+26-tone MRU\_CH 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4896.87	55.24 PK	74	-18.76	-43.2	3.18	-40.02
2	4879.68	42.4 AV	54	-11.6	-56.04	3.18	-52.86
3	7401.56	56.97 PK	74	-17.03	-41.47	3.18	-38.29
4	7495.31	44.79 AV	54	-9.21	-53.65	3.18	-50.47

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



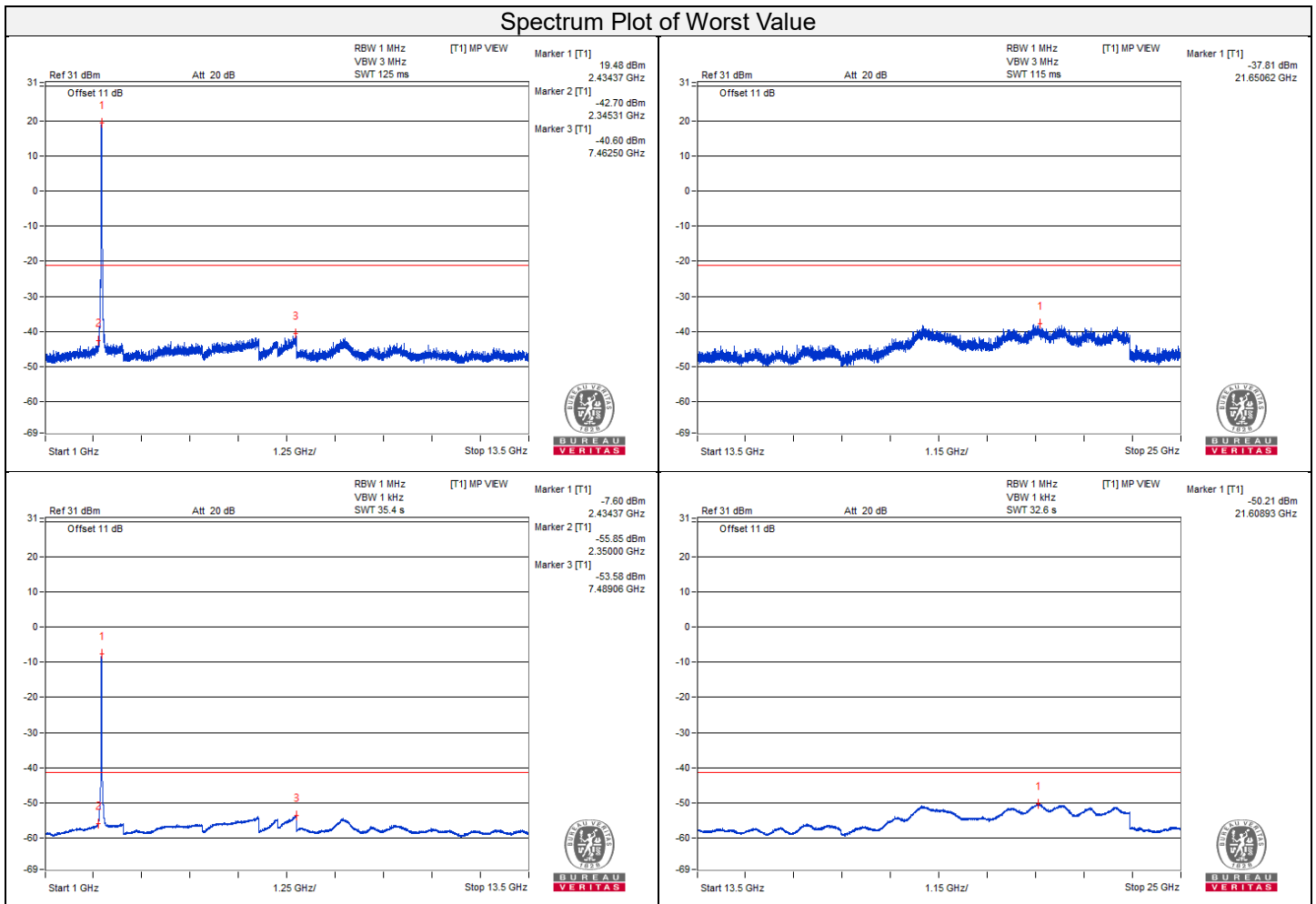
802.11be (EHT20) 106+26-tone MRU\_CH 6

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4881.25	55.07 PK	74	-18.93	-43.37	3.18	-40.19
2	4978.12	42.21 AV	54	-11.79	-56.23	3.18	-53.05
3	7462.5	57.84 PK	74	-16.16	-40.6	3.18	-37.42
4	7489.06	44.86 AV	54	-9.14	-53.58	3.18	-50.40

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



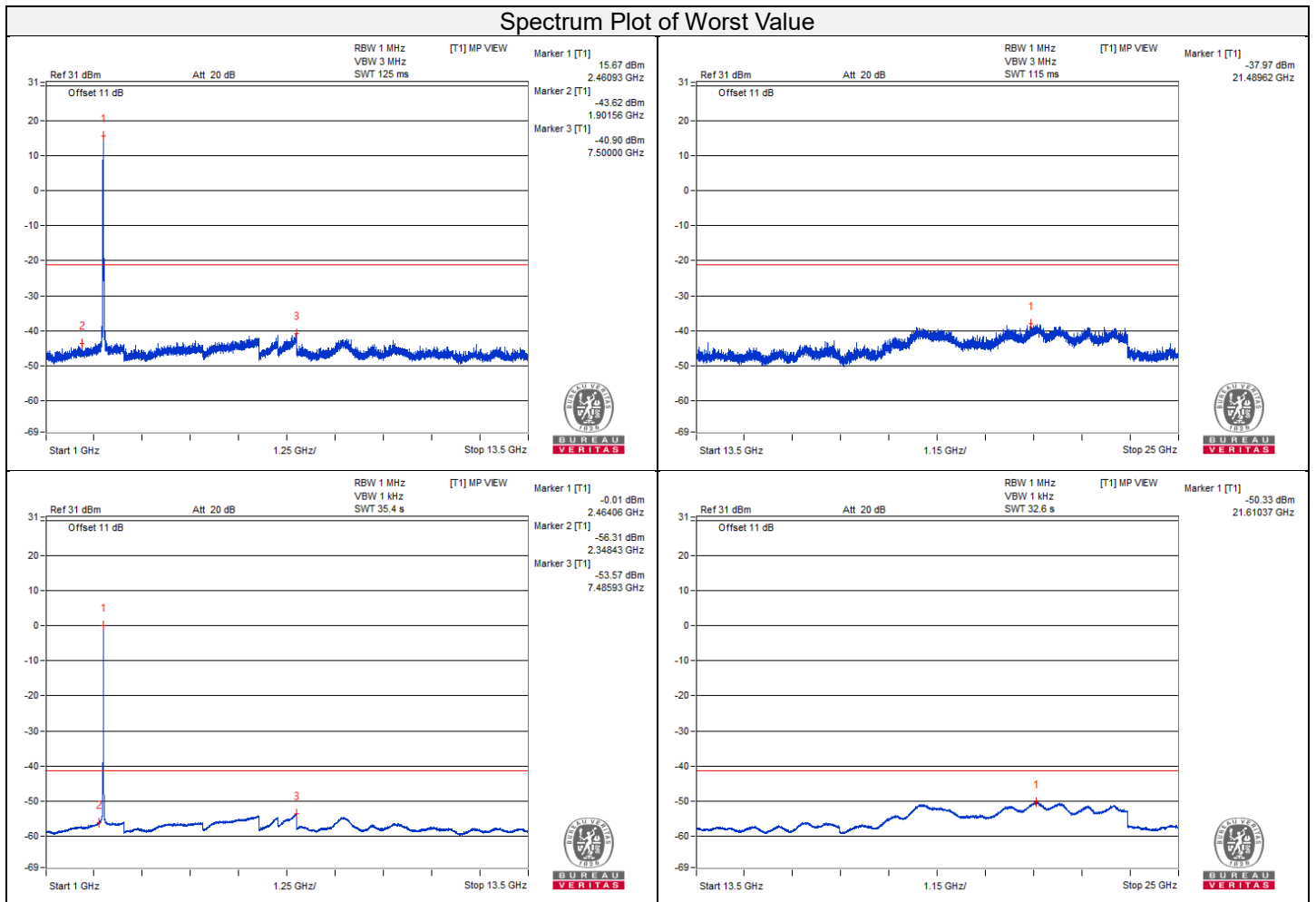
802.11be (EHT20) 106+26-tone MRU\_CH 11

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4870.31	55.47 PK	74	-18.53	-42.97	3.18	-39.79
2	4926.56	42.25 AV	54	-11.75	-56.19	3.18	-53.01
3	7500	57.54 PK	74	-16.46	-40.9	3.18	-37.72
4	7485.93	44.87 AV	54	-9.13	-53.57	3.18	-50.39

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



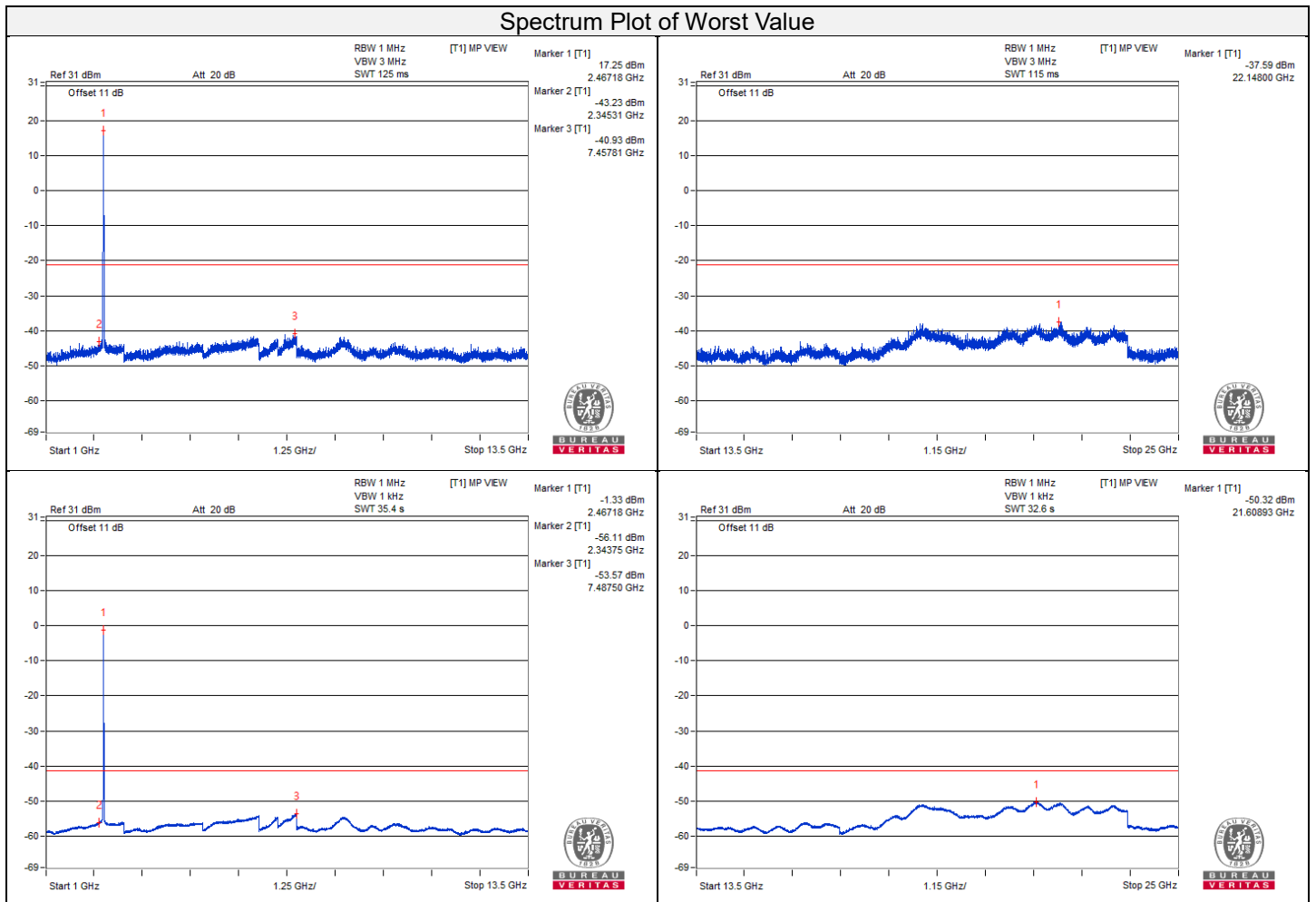
802.11be (EHT20) 106+26-tone MRU\_CH 12

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4921.87	54.91 PK	74	-19.09	-43.53	3.18	-40.35
2	4823.43	42.33 AV	54	-11.67	-56.11	3.18	-52.93
3	7457.81	57.51 PK	74	-16.49	-40.93	3.18	-37.75
4	7487.5	44.87 AV	54	-9.13	-53.57	3.18	-50.39

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value



802.11be (EHT20) 106+26-tone MRU\_CH 13

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	4985.93	54.89 PK	74	-19.11	-43.55	3.18	-40.37
2	4954.68	42.51 AV	54	-11.49	-55.93	3.18	-52.75
3	7479.68	57.1 PK	74	-16.9	-41.34	3.18	-38.16
4	7490.62	44.69 AV	54	-9.31	-53.75	3.18	-50.57

Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Spectrum Plot of Worst Value

