

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: Certification Ordinance Article 2-1-19

Report No.: RJBBQZ-WTW-P25100605

Product: BE5000 Dual-Band PoE 2.5G Insight Managed WiFi 7 Outdoor Access Point

Brand: NETGEAR

Model No.: WBE700Y

Series Model: WBE708Y (refer to item 3.1 for more details)

Received Date: 2025/11/15

Test Date: 2026/6/22 ~ 2026/7/20

Issued Date: 2026/8/5

Applicant: NETGEAR, INC.

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Approved by:

Jeremy Lin

Date:

2026/8/5

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specilist



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Release Control Record

Issue No.	Description	Date Issued
RJBBQZ-WTW-P25100605	Original release.	2026/8/5

1 Certificate

Product: BE5000 Dual-Band PoE 2.5G Insight Managed WiFi 7 Outdoor Access Point
Brand: NETGEAR
Test Model: WBE700Y
Series Model: WBE708Y (refer to item 3.1 for more details)
Sample Status: Engineering sample
Applicant: NETGEAR, INC.
Test Date: 2026/6/22 ~ 2026/7/20
Standard: Certification Ordinance Article 2-1-19
Measurement procedure: MIC notice 88 Appendix 43

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

Certification Ordinance Article 2-1-19		
Clause	Test Item	Result
OR: Article 5 OR: Annex 1 table 7-8	Frequency Tolerance	Pass
OR: Article 6 Annex 2.30	Occupied Bandwidth	Pass
OR: Article 7. Annex 3.26	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 24.2	Spurious Emissions of Receiver	Pass
OR: Article 49-20	Housing Requirements	Pass (Refer to Note 1)
OR: Article 49-20	Antenna Power	Pass
OR: Article 49-20	Absolute Gain of Transmitting Antenna	Pass
OR: Article 49-20	Angular Width of Principal Radiation (AWPR)	N/A
OR: Article 49-20	Number of Carriers within 1 MHz Bandwidth in OFDM	Pass
OR: Article 49-20	Dwell Time (FH employed)	N/A
OR: Article 9-4.5 RE: Article 6-2.3 RE: Article 6-2.5	Interference Prevention Function	Pass
OR: Article 49-20	Carrier Sense Capability	Pass

Notes:

1. The relative information refer section 3.1 of this report.
2. OR: Ordinance Regulating Radio Equipment
3. RE: Regulations for Enforcement of the radio law
4. 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 ETSI TR 100 028-1 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)
Occupied Bandwidth	72 Hz
Spurious Emissions	2.208 dB
Output Power Density	2.889 dB
Frequency Tolerance	614.95 Hz

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	BE5000 Dual-Band PoE 2.5G Insight Managed WiFi 7 Outdoor Access Point
Brand	NETGEAR
Test Model	WBE700Y
Series Model	WBE708Y
Model Difference	Refer to Note
Test Software Version	QSPR Version 5.0-00202
Status of EUT	Engineering sample
Power Supply Rating	40.8 Vdc ~ 55.2 Vdc from PoE
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 688.2 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):9
Partial RU Mode	Not support
Channel Puncturing	Not support
Housing Requirements	Metal housing and the metal shielding case won't be easy to be opened.

Note:

1. All models are listed as below. Model WBE700Y is the representative for final test.

Model	HW	FW	Differences
WBE700Y	Identical	Identical	SKU, Packing and labelling information Target retail markets
WBE708Y	Identical	Identical	SKU, Packing and labelling information Target service provider markets

2. There are WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
3. 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 Output Power Description of EUT

External Antenna

Operation Mode	Rated Output Power Density (mW/MHz)	Maximum Conducted RF Output Power Density (mW/MHz)	Maximum Radiated RF Output Power Density (mW/MHz)
802.11b	6.6	6.504	15.602
802.11g	6.7	6.609	15.854
VHT20	6.7	6.437	15.441
VHT40	3.35	3.178	7.623
802.11ax (HE20)	6.7	6.408	15.372
802.11ax (HE40)	3.35	3.168	7.6
802.11be (EHT20)	6.7	6.489	15.566
802.11be (EHT40)	3.35	3.201	7.679

Internal Antenna

Operation Mode	Rated Output Power Density (mW/MHz)	Maximum Conducted RF Output Power Density (mW/MHz)	Maximum Radiated RF Output Power Density (mW/MHz)
802.11b	2.5	2.425	16.096
802.11g	2.5	2.428	16.116
VHT20	2.5	2.412	16.009
VHT40	1.2	1.174	7.792
802.11ax (HE20)	2.5	2.409	15.99
802.11ax (HE40)	1.2	1.167	7.746
802.11be (EHT20)	2.5	2.434	16.156
802.11be (EHT40)	1.2	1.185	7.865

3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Antenna Type	Connector Type	Frequency (MHz)	Antenna Gain (dBi)
Internal Ant 1_2G	0	Patch	ipex(MHF)	2.4~2.4835GHz	7.93
Internal Ant 2_2G	1	Patch	ipex(MHF)	2.4~2.4835GHz	8.22
External Ant 1_2G	0	Dipole	RP-SMA	2.4~2.4835GHz	3.77
External Ant 2_2G	1	Dipole	RP-SMA	2.4~2.4835GHz	3.8

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

2. The EUT incorporates a MIMO function:

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

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

3.4 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		

3.5 Power Setting

External Antenna

Power Setting					
Channel	802.11b	802.11g	VHT20	Channel	VHT40
1	16.5	17	18	3	16.5
7	16.5	17	18	7	16.5
13	16.5	17	18	11	16.5

Power Setting							
Channel	802.11ax (HE20)	Channel	802.11ax (HE40)	Channel	802.11be (EHT20)	Channel	802.11be (EHT40)
1	18	3	16.5	1	18	3	16.5
7	18	7	16.5	7	18	7	16.5
13	18	11	16.5	13	18	11	16.5

Internal Antenna

Power Setting					
Channel	802.11b	802.11g	VHT20	Channel	VHT40
1	12	12	12.5	3	13.5
7	12	12	12.5	7	13.5
13	12	12	12.5	11	13.5

Power Setting							
Channel	802.11ax (HE20)	Channel	802.11ax (HE40)	Channel	802.11be (EHT20)	Channel	802.11be (EHT40)
1	12.5	3	13.5	1	12.5	3	13.5
7	12.5	7	13.5	7	12.5	7	13.5
13	12.5	11	13.5	13	12.5	11	13.5

3.6 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vdc)
V_{normal}	48

Note: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/- 1 % when input voltage from an external supply into the equipment fluctuates +/- 10%, therefore, the test is carried out only at the normal voltage.

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

Test Item	EUT Configure Mode	Test Conditions	Mode	Tested Channel	Modulation	Data Rate Parameter
Frequency Tolerance	A, B	Chain 0	20MHz System	1, 7, 13	unmodulated	-
			40MHz System	3, 7, 11	unmodulated	-
Occupied Bandwidth	A, B	Chain 0 Chain 1	802.11b	1, 7, 13	DBPSK	1Mb/s
			802.11g	1, 7, 13	BPSK	6Mb/s
			802.11be (EHT20)	1, 7, 13	BPSK	MCS0
			802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Spurious Emissions	A, B	Chain 0 Chain 1 W	802.11b	1, 7, 13	DBPSK	1Mb/s
			802.11g	1, 7, 13	BPSK	6Mb/s
			802.11be (EHT20)	1, 7, 13	BPSK	MCS0
			802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Spurious Emissions of Receiver	A, B	Chain 0 Chain 1 S	20MHz System	1, 7, 13	-	-
			40MHz System	3, 7, 11	-	-
Antenna Power	A, B	Chain 0 Chain 1 S	802.11b	1, 7, 13	DBPSK	1Mb/s
			802.11g	1, 7, 13	BPSK	6Mb/s
			VHT20	1, 7, 13	BPSK	MCS0
			VHT40	3, 7, 11	BPSK	MCS0
			802.11ax (HE20)	1, 7, 13	BPSK	MCS0
			802.11ax (HE40)	3, 7, 11	BPSK	MCS0
			802.11be (EHT20)	1, 7, 13	BPSK	MCS0
			802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Number of Carriers within 1 MHz Bandwidth in OFDM	A, B	Chain 0	802.11g	1, 7, 13	BPSK	6Mb/s
Interference Prevention Function	A, B	-	Normal Operation			
Carrier Sense Capability	A, B	-	40MHz System	3, 7, 11	-	-
EUT Configure Mode:	A	External Antenna				
	B	Internal Antenna				
Note: S : Sum of each Chain, W : [Worst result] x [Number of antenna ports]						

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 Frequency Tolerance

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20	BV CPS E&E	(d)
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14	ETC	(c)
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A	N/A	N/A

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/7/20

4.2 Occupied Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20	BV CPS E&E	(d)
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14	ETC	(c)
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A	N/A	N/A

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/6/22 ~ 2026/7/20

4.3 Spurious Emissions

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

4.4 Spurious Emissions of Receiver

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

4.5 Antenna Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20	BV CPS E&E	(d)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53050430	2025/12/5	2026/12/4	ETC	(c)
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14	ETC	(c)
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A	N/A	N/A
USB Power Sensor Anritsu	MA24408A	12994	2025/12/5	2026/12/4	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/6/22

4.6 Number of Carriers within 1 MHz Bandwidth in OFDM

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
3-channel DC power supply OWON	ODP3033	ODP30332128138	Note 2	Note 2	BV CPS E&E	(d)
Digital Multimeter Fluke	8050A	4660081	2026/6/5	2027/6/4	ETC	(c)
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20	BV CPS E&E	(d)
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14	ETC	(c)
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A	N/A	N/A

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/7/20

4.7 Interference Prevention Function

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
3-channel DC power supply OWON	ODP3033	ODP30332128138	Note 2	Note 2	BV CPS E&E	(d)
Digital Multimeter Fluke	8050A	4660081	2026/6/5	2027/6/4	ETC	(c)
WLAN Test Set Anritsu	MT8860C	1702001	2026/5/18	2027/5/17	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/7/20

4.8 Carrier Sense Capability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
3-channel DC power supply OWON	ODP3033	ODP30332128138	Note 2	Note 2	BV CPS E&E	(d)
Digital Multimeter Fluke	8050A	4660081	2026/6/5	2027/6/4	ETC	(c)
EXA Signal Analyzer Agilent	N9010A	MY52220314	2025/12/22	2026/12/21	ETC	(c)
MXG Vector signal generator Keysight	N5182B	MY53052282	2026/1/2	2027/1/1	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in HY - Oven room(Hwaya).
- Tested Date: 2026/7/20

5 Limits of Test Items

5.1 Frequency Tolerance

Tolerance of frequency shall be +/- 50ppm.

5.2 Occupied Bandwidth

Modulation Method	Limit
DSSS	<26 MHz
OFDM	<26 MHz
	26 – 40 MHz
FHSS	<83.5 MHz
Other Digital	<26 MHz

5.3 Spurious Emissions

Frequencies	Limit
Operating frequency 2400 to 2483.5 MHz	
30.0 MHz to 1000.0 MHz	$\leq 0.25 \text{ uW}/100 \text{ kHz}$
1000.0 MHz to 2387 MHz	$\leq 2.5 \text{ uW}/\text{MHz}$
2387.0 MHz to 2400.0 MHz	$\leq 25 \text{ uW}/\text{MHz}$
2483.5 MHz to 2496.5 MHz	$\leq 25 \text{ uW}/\text{MHz}$
2496.5 MHz to 12500.0 MHz	$\leq 2.5 \text{ uW}/\text{MHz}$

5.4 Spurious Emissions of Receiver

Frequencies	Limit
Below 1 GHz	$\leq 4 \text{ nW}$
Above 1 GHz	$\leq 20 \text{ nW}$

5.5 Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	E.I.R.P. Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5 mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.184 mW/MHz ~ 81.84 mW/MHz)
FHSS	2400 – 2483.5 MHz	3 mW/MHz	6.91 dBm/MHz ~ 16.91 dBm/MHz (4.91 mW/MHz ~ 49.10 mW/MHz)
Other Digital	2400 – 2483.5 MHz	10 mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Notes:

- Occupied bandwidth is less than 26 MHz.
- Occupied bandwidth is more than 26 MHz and less than 40 MHz.
- E.I.R.P. limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be $360 / A$ degrees or less, where $A = \text{E.I.R.P.} / (2.14 \text{ dBi} + \text{"Antenna Power (limit)"})$.
- Tolerance of antenna power shall be +20% (upper value).
- When an E.I.R.P. is less than 2.14 dBi + antenna power limit. The shortage can be compensated for by the antenna power. (Application to transmitting devices using "Other method" is Limited to "GFSK")

5.6 Number of Carriers within 1 MHz Bandwidth in OFDM

For each 1 MHz bandwidth in OFDM, there should be at least 1 carrier.

5.7 Interference Prevention Function

When conducting wireless communications that transmit data or other information: A function that automatically sends or receives an identification code.

When performing radiolocation work: A function that allows you to distinguish between reflected waves of radio waves transmitted by your own station and radio waves transmitted by other radio stations by identifying the modulation method and other characteristics of received radio waves. (However, if it also has the function of transmitting signals for data transmission, both functions shall be included.)

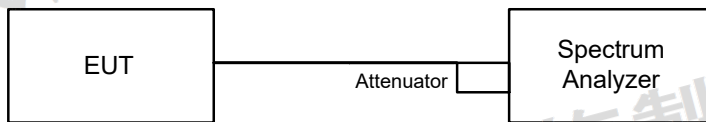
5.8 Carrier Sense Capability

Radio equipment used carrier sensing mechanism that based detect and avoid capabilities.

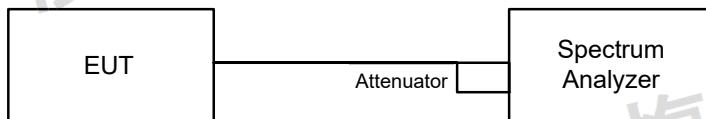
Note: When the E.I.R.P. shortage is compensated by the antenna power, the transmitter shall have a carrier sensing function. (Excluding "Other method" transmitters that switch frequencies within 4 seconds from the start of transmission)

6 Test Arrangements

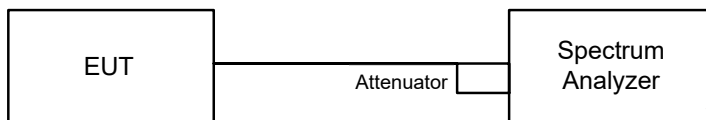
6.1 Frequency Tolerance



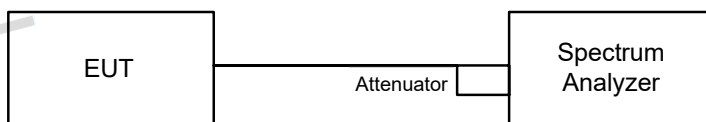
6.2 Occupied Bandwidth



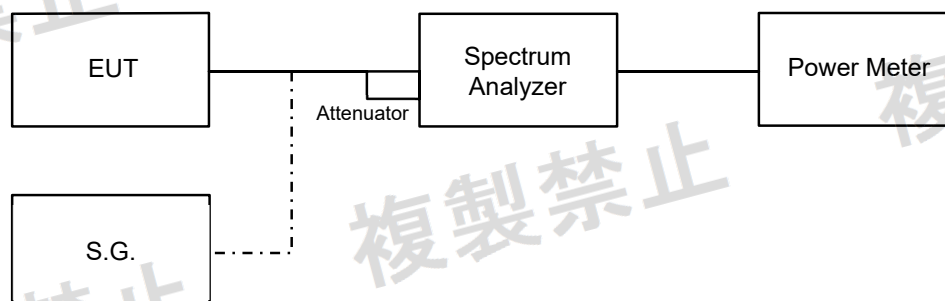
6.3 Spurious Emissions



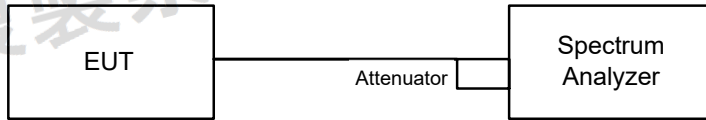
6.4 Spurious Emissions of Receiver



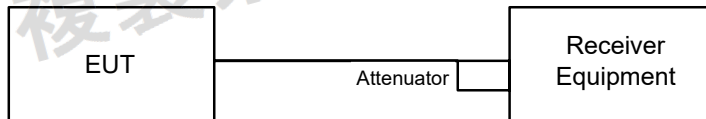
6.5 Antenna Power



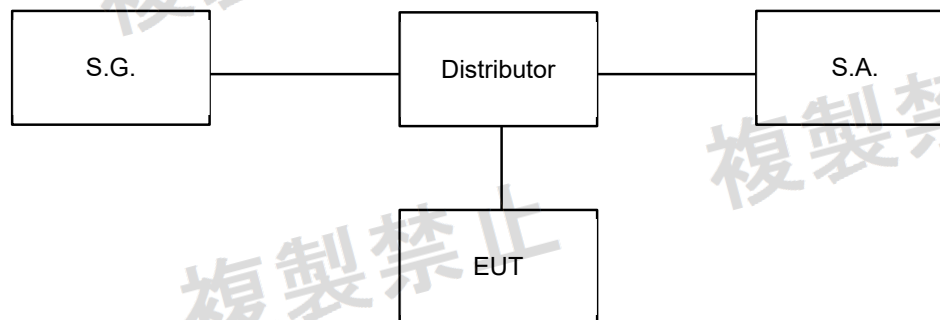
6.6 Number of Carriers within 1 MHz Bandwidth in OFDM



6.7 Interference Prevention Function



6.8 Carrier Sense Capability



7 Test Results of Test Item

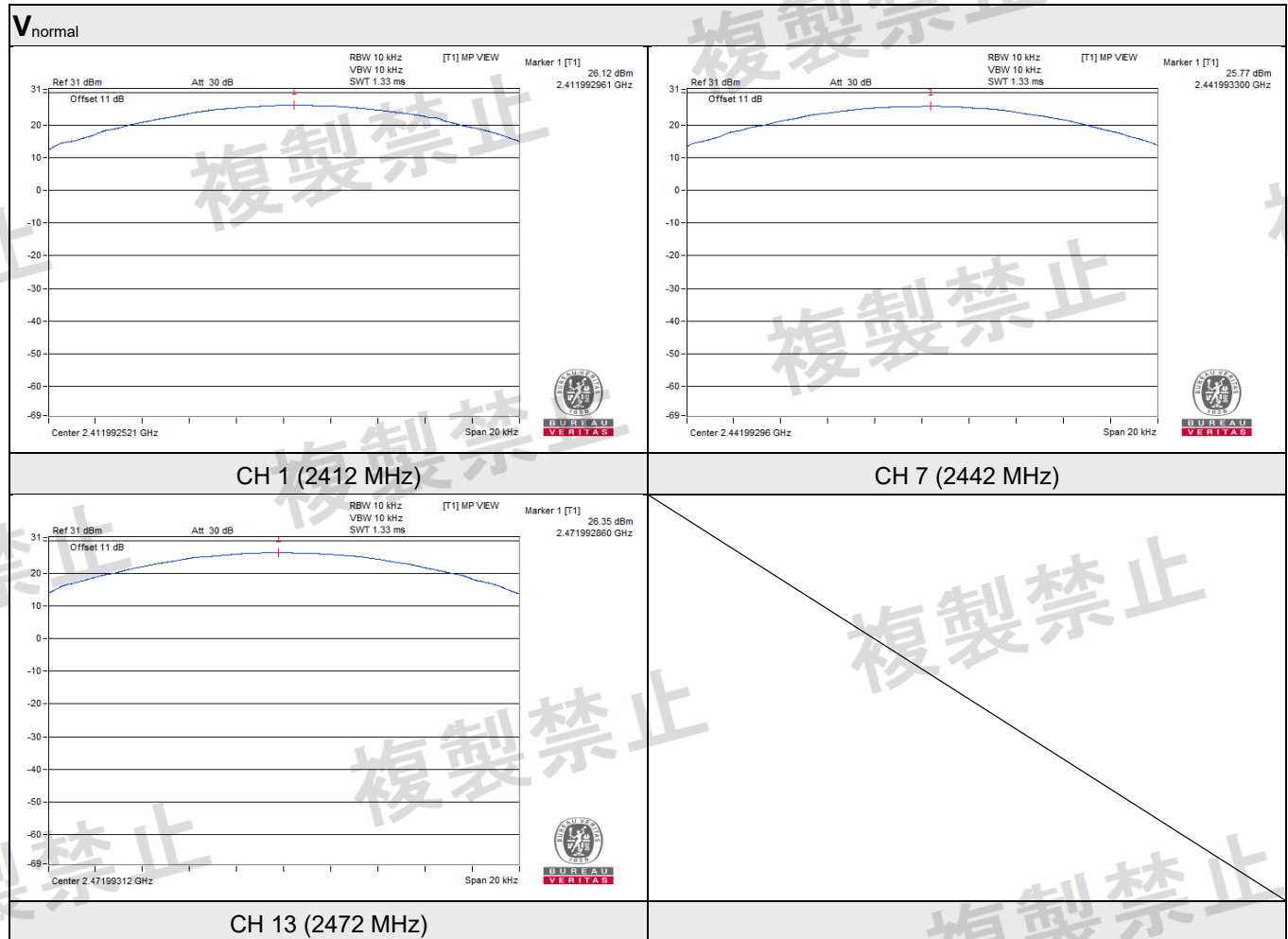
7.1 Frequency Tolerance

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

20 MHz System Chain 0

Channel	Frequency (MHz)	V _{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
1	2412	2411.992961	-2.918
7	2442	2441.993300	-2.744
13	2472	2471.992860	-2.888



40 MHz System Chain 0

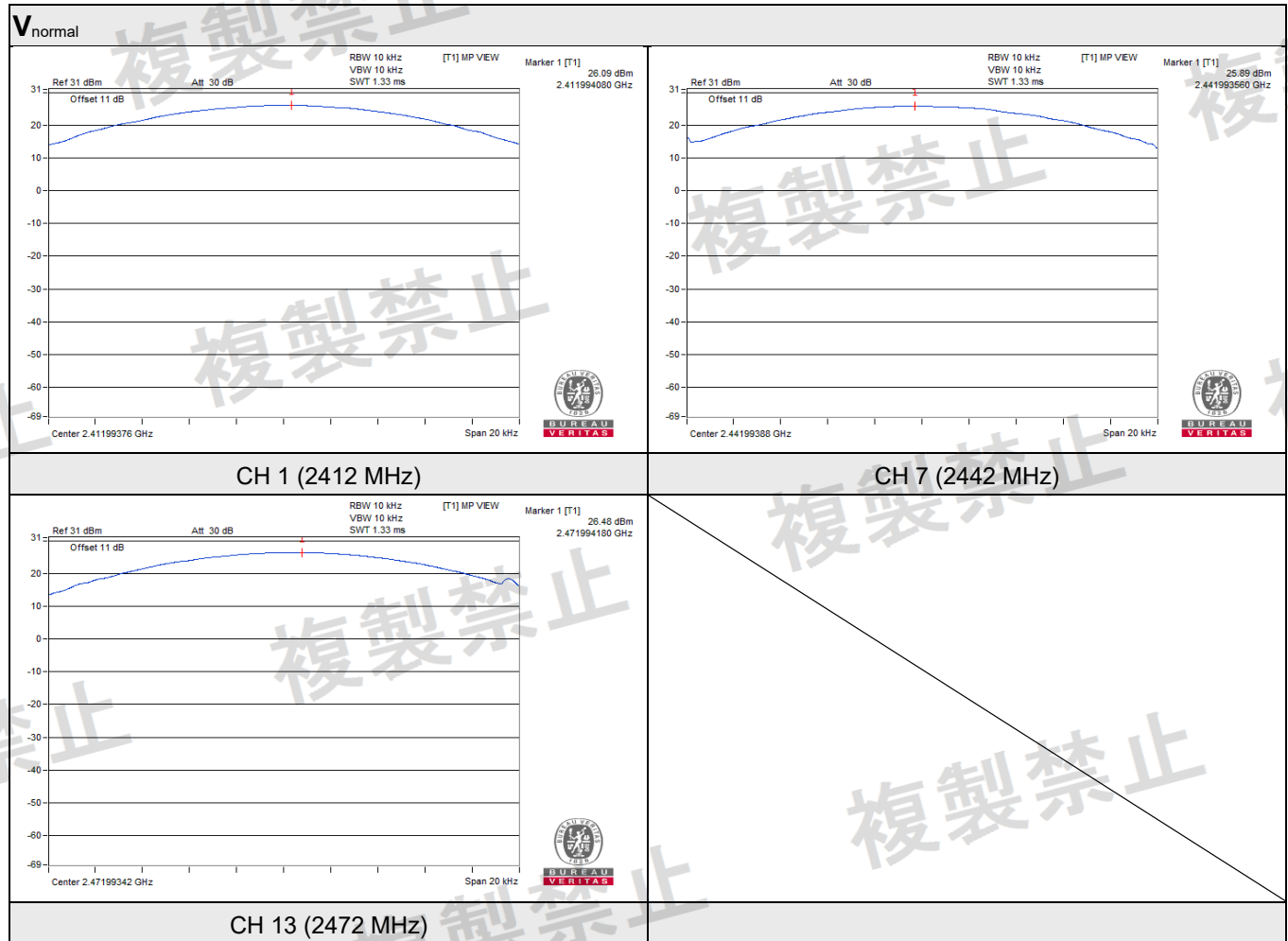
Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
3	2422	2421.993420	-2.717
7	2442	2441.993380	-2.711
11	2462	2461.993660	-2.575



Internal Antenna (Mode B)

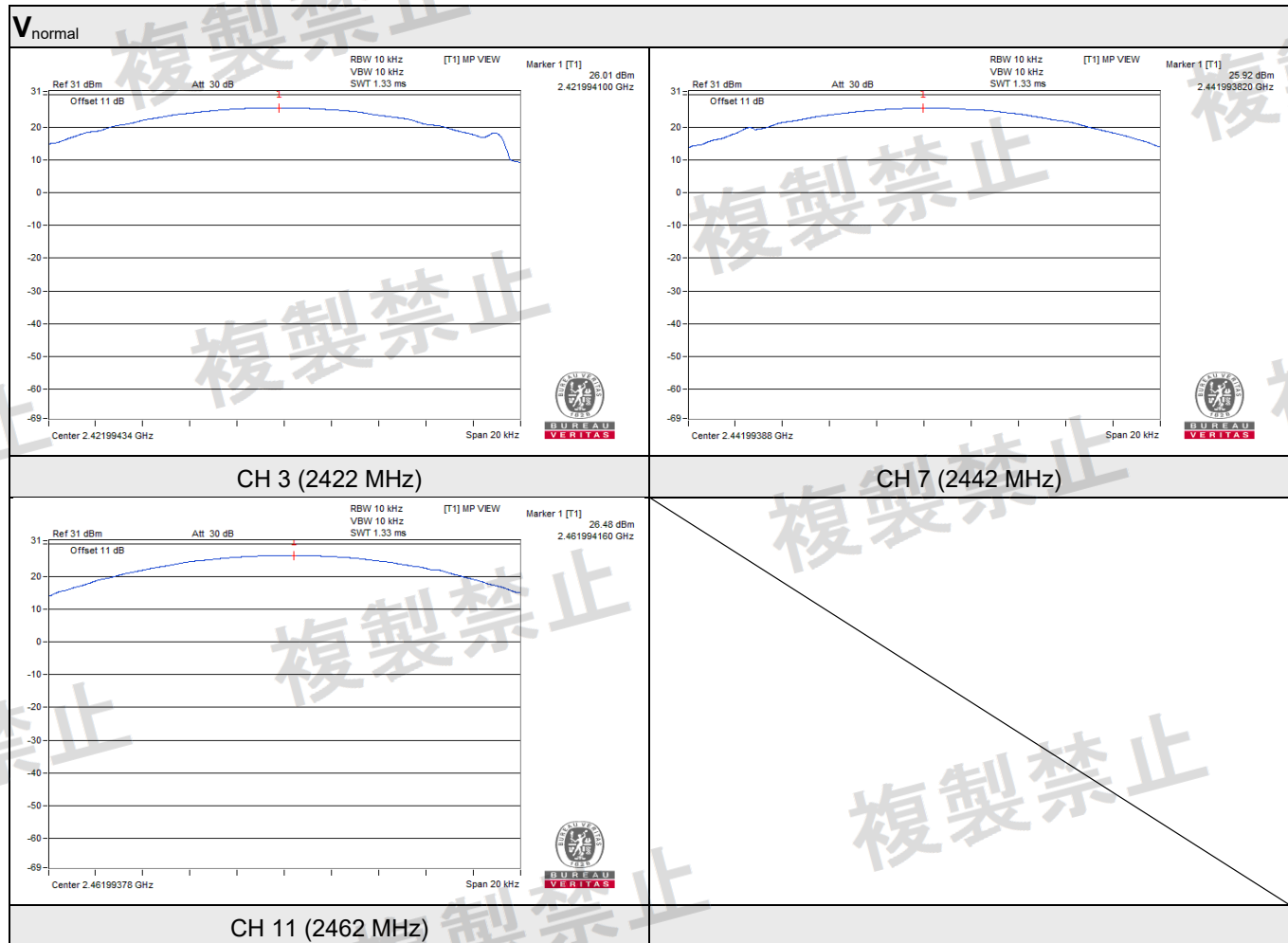
20 MHz System Chain 0

Channel	Frequency (MHz)	V _{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
1	2412	2411.994080	-2.454
7	2442	2441.993560	-2.637
13	2472	2471.994180	-2.354



40 MHz System Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
3	2422	2421.994100	-2.436
7	2442	2441.993820	-2.531
11	2462	2461.994160	-2.372



7.2 Occupied Bandwidth

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

802.11b Chain 0

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	13.25
7	2442	13.10
13	2472	13.20

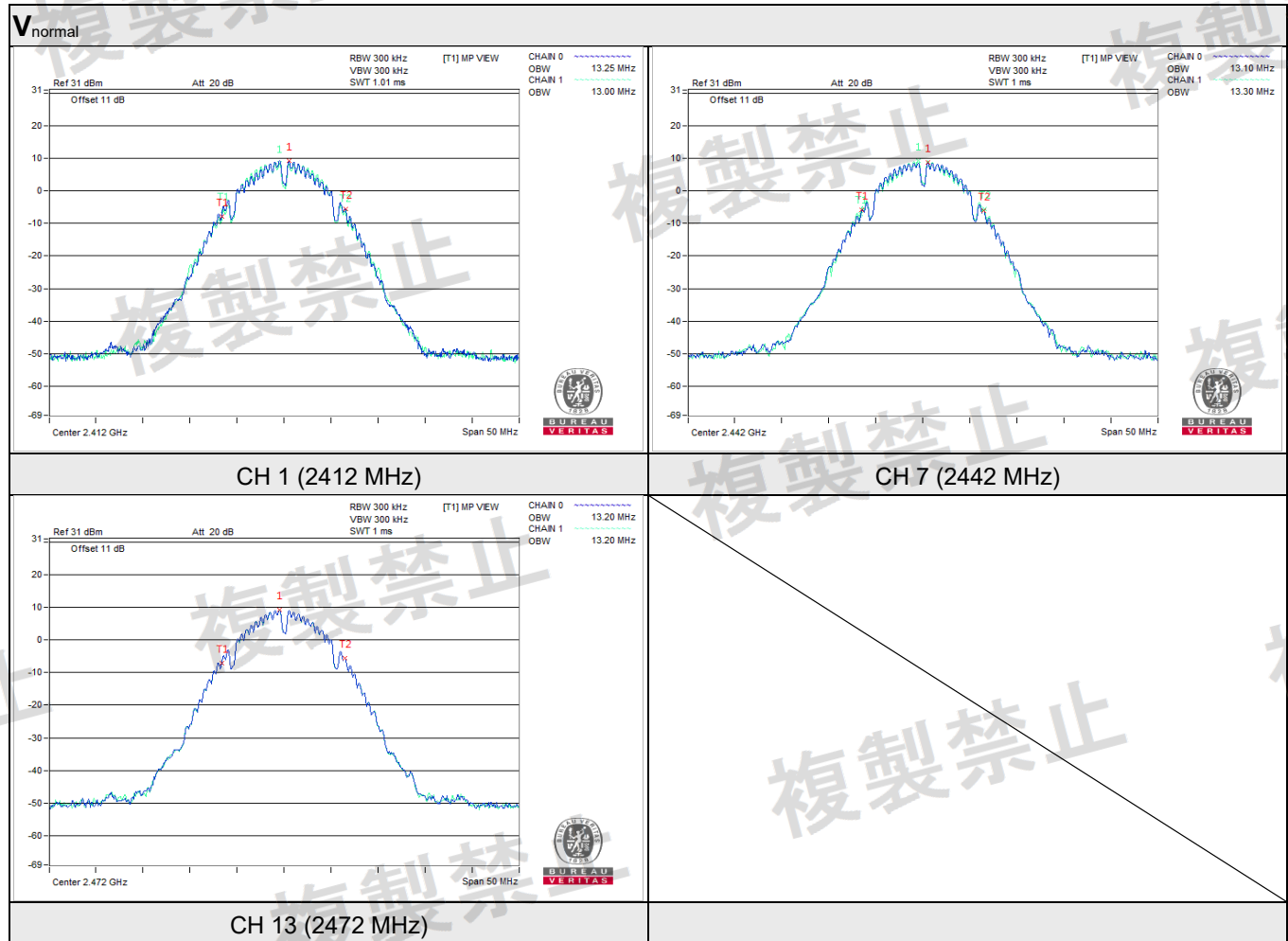
NOTE: For the test plots please refer to the below pages.

802.11b Chain 1

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	13.00
7	2442	13.30
13	2472	13.20

NOTE: For the test plots please refer to the below pages.

802.11b Graph



802.11g Chain 0

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	17.00
7	2442	17.00
13	2472	17.00

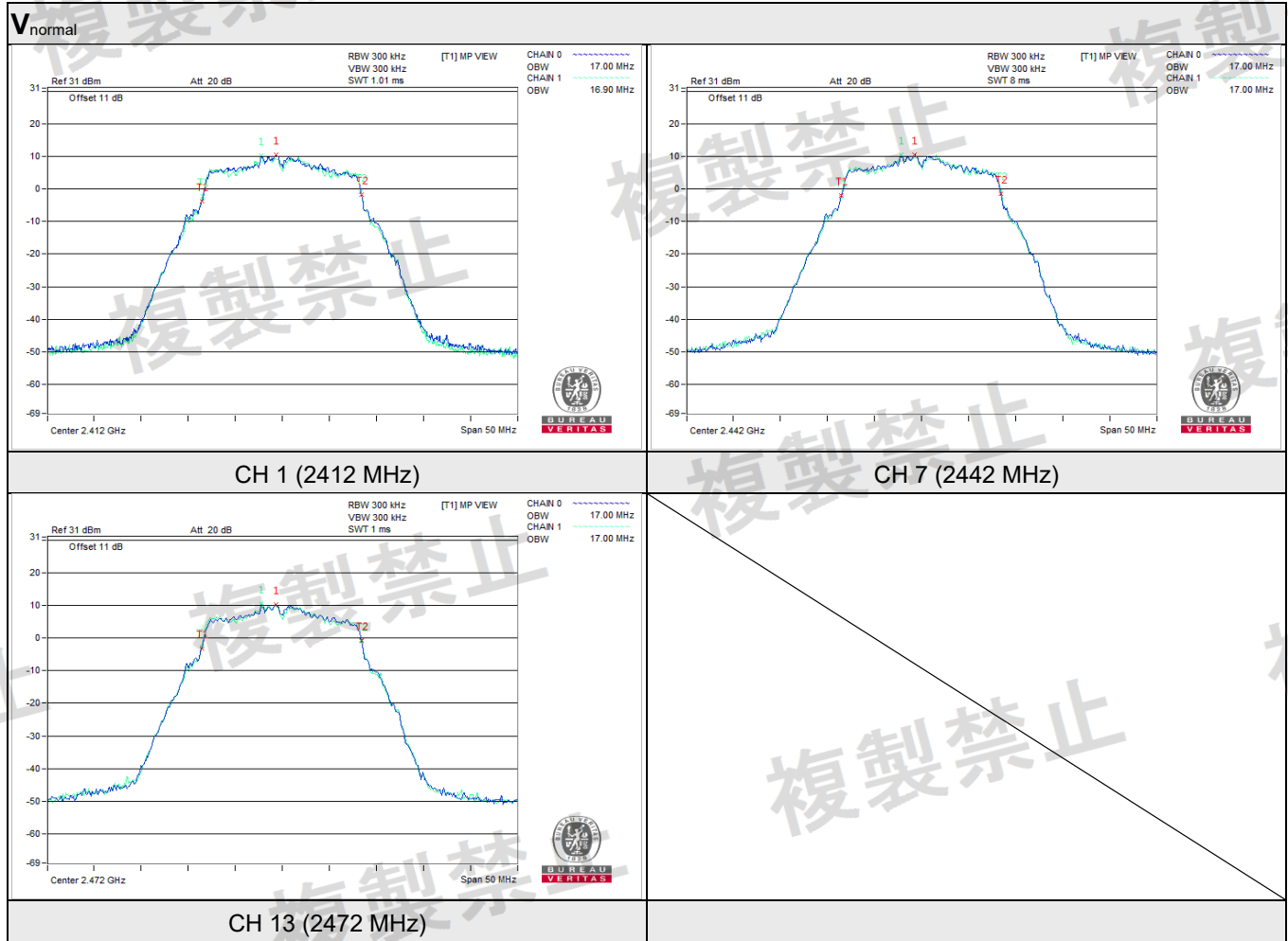
NOTE: For the test plots please refer to the below pages.

802.11g Chain 1

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	16.90
7	2442	17.00
13	2472	17.00

NOTE: For the test plots please refer to the below pages.

802.11g Graph



802.11be (EHT20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.85
7	2442	19.10
13	2472	19.00

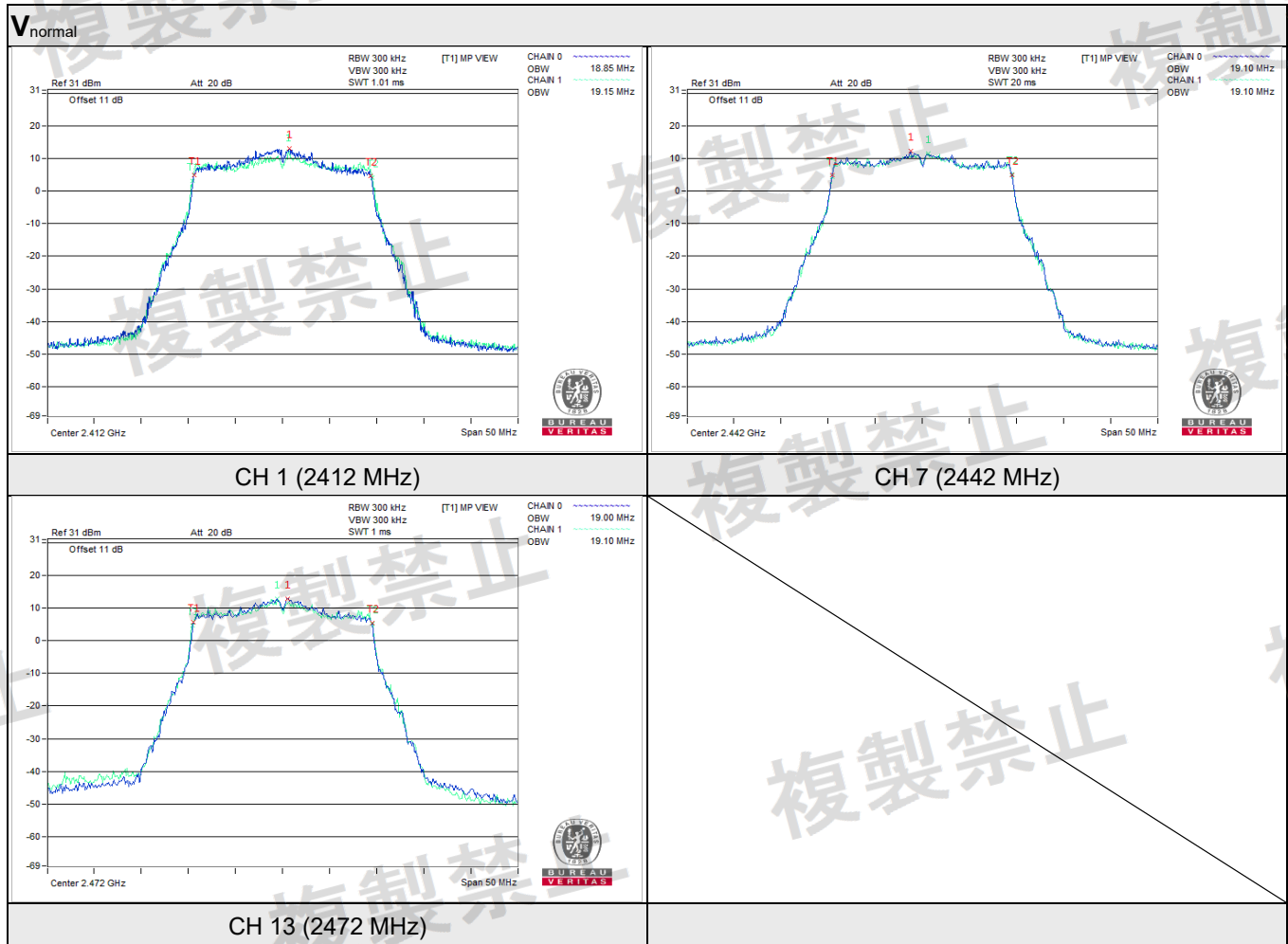
NOTE: For the test plots please refer to the below pages.

802.11be (EHT20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	19.15
7	2442	19.10
13	2472	19.10

NOTE: For the test plots please refer to the below pages.

802.11be (EHT20) Graph



802.11be (EHT40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.80
7	2442	37.80
11	2462	37.80

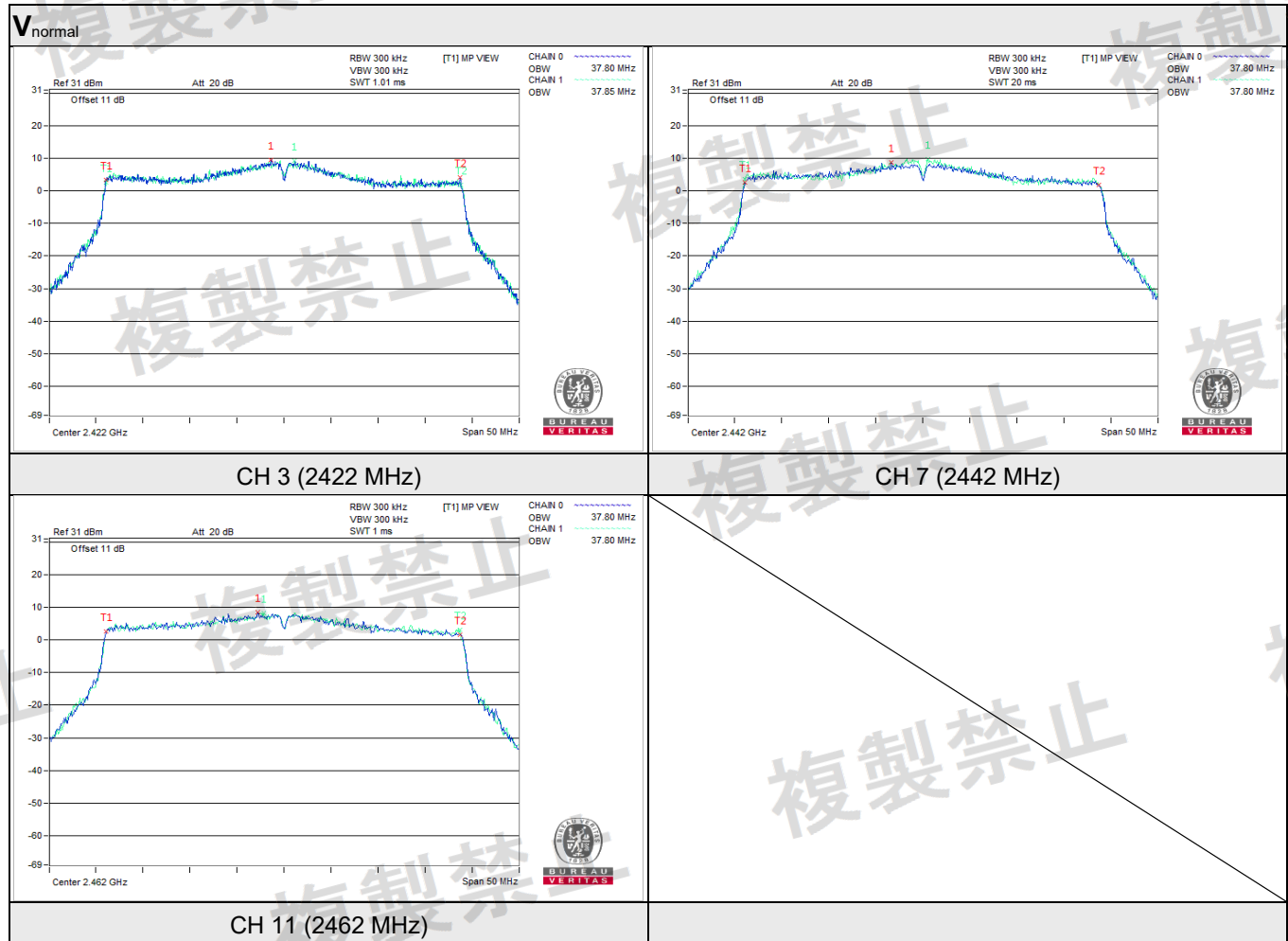
NOTE: For the test plots please refer to the below pages.

802.11be (EHT40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.85
7	2442	37.80
11	2462	37.80

NOTE: For the test plots please refer to the below pages.

802.11be (EHT40) Graph



Internal Antenna (Mode B)

802.11b Chain 0

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	13.25
7	2442	13.20
13	2472	13.10

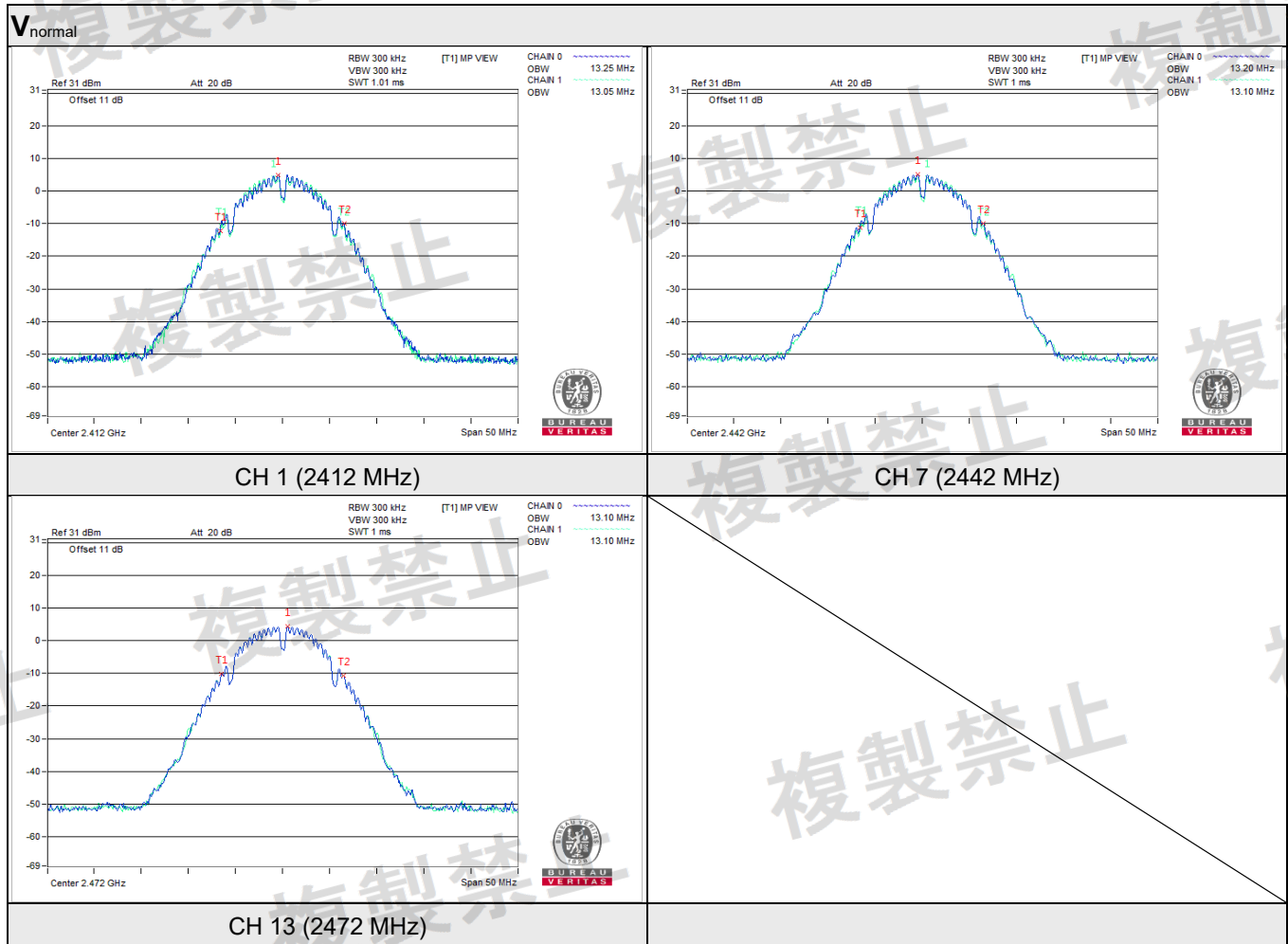
NOTE: For the test plots please refer to the below pages.

802.11b Chain 1

Channel	Frequency (MHz)	V _{normal}
		Occupied Bandwidth (MHz)
1	2412	13.05
7	2442	13.10
13	2472	13.10

NOTE: For the test plots please refer to the below pages.

802.11b Graph



802.11g Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	17.00
7	2442	17.00
13	2472	17.00

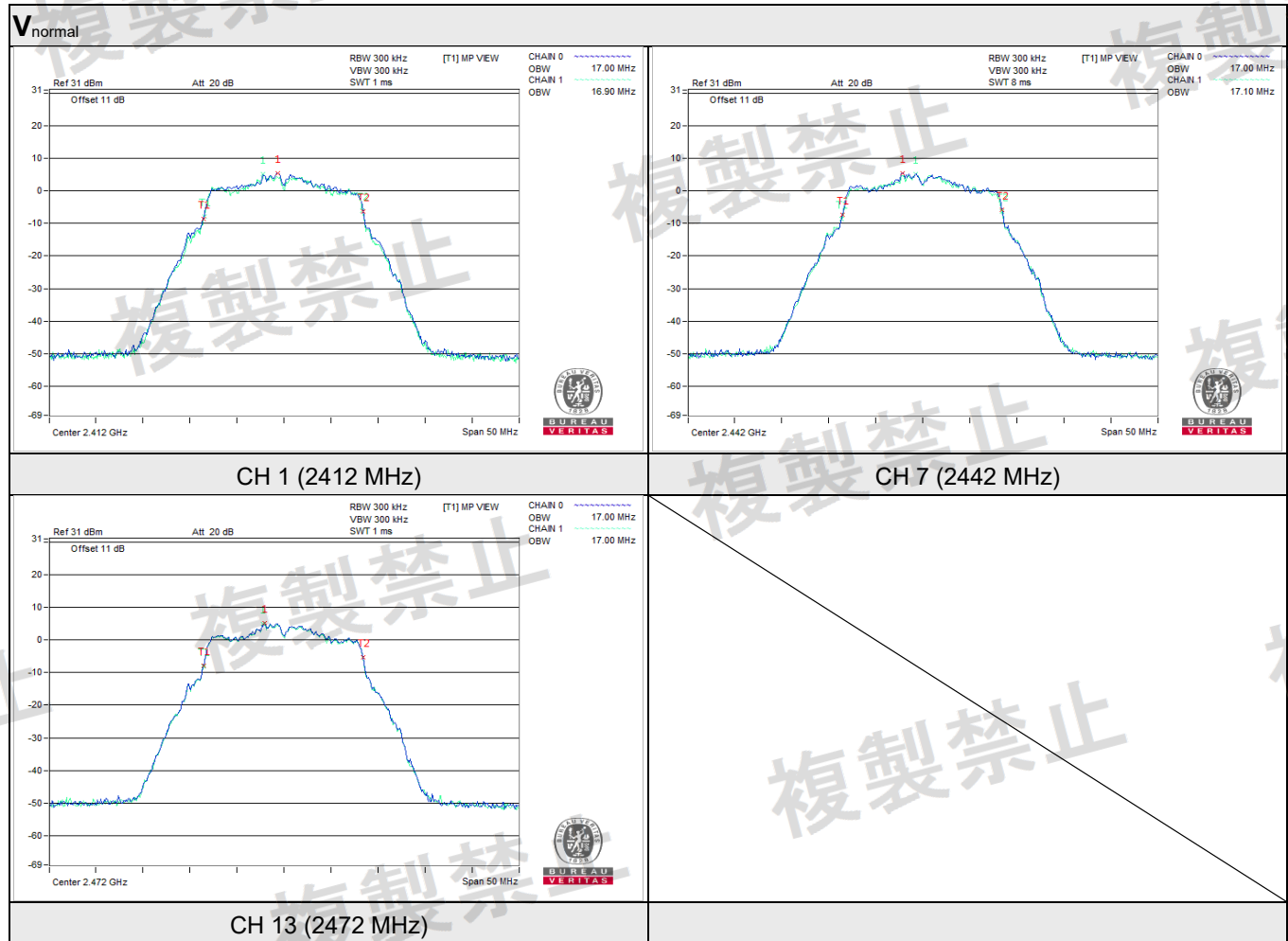
NOTE: For the test plots please refer to the below pages.

802.11g Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	16.90
7	2442	17.10
13	2472	17.00

NOTE: For the test plots please refer to the below pages.

802.11g Graph



802.11be (EHT20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.90
7	2442	18.90
13	2472	19.10

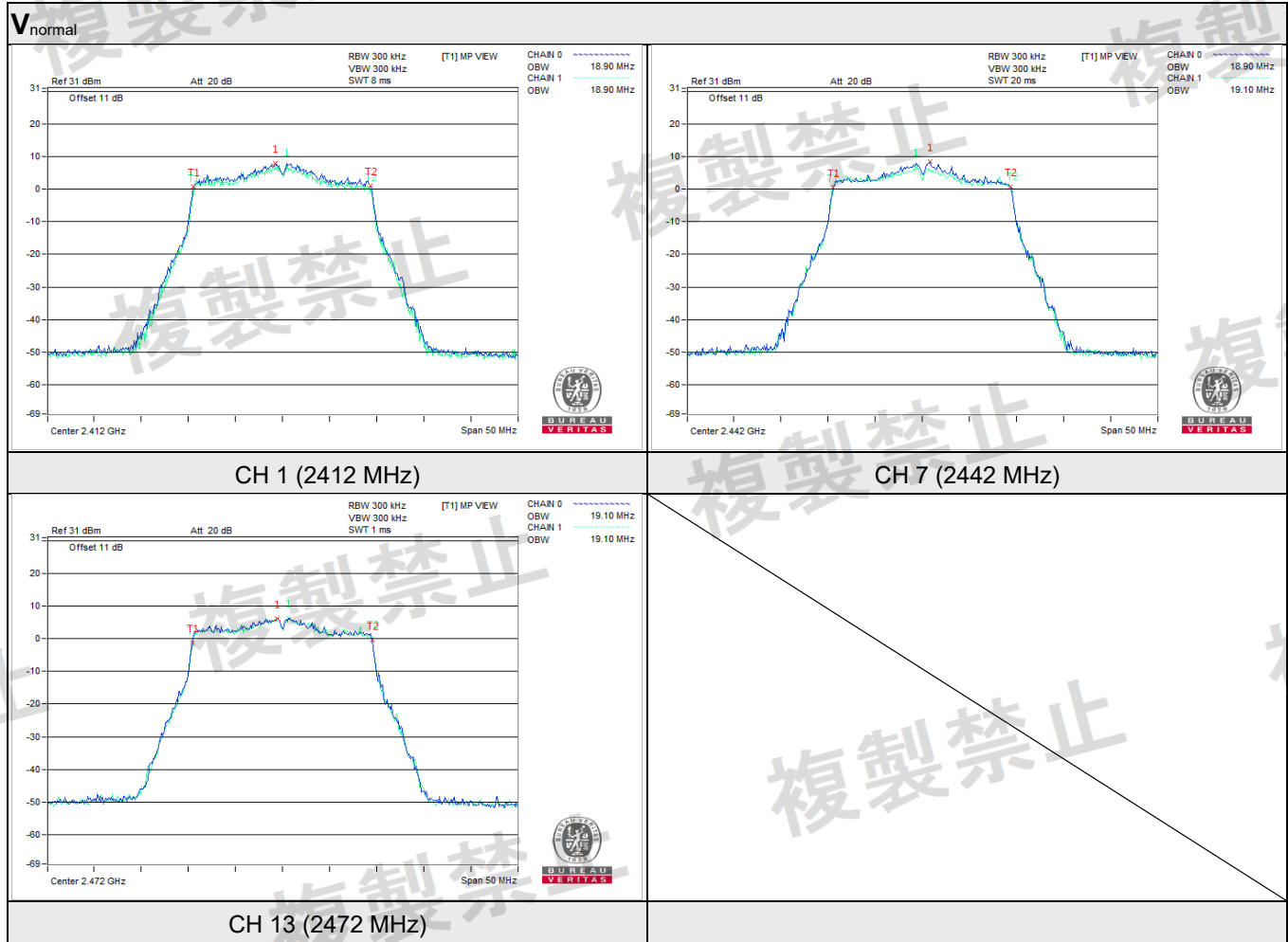
NOTE: For the test plots please refer to the below pages.

802.11be (EHT20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.90
7	2442	19.10
13	2472	19.10

NOTE: For the test plots please refer to the below pages.

802.11be (EHT20) Graph



802.11be (EHT40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.90
7	2442	37.80
11	2462	37.80

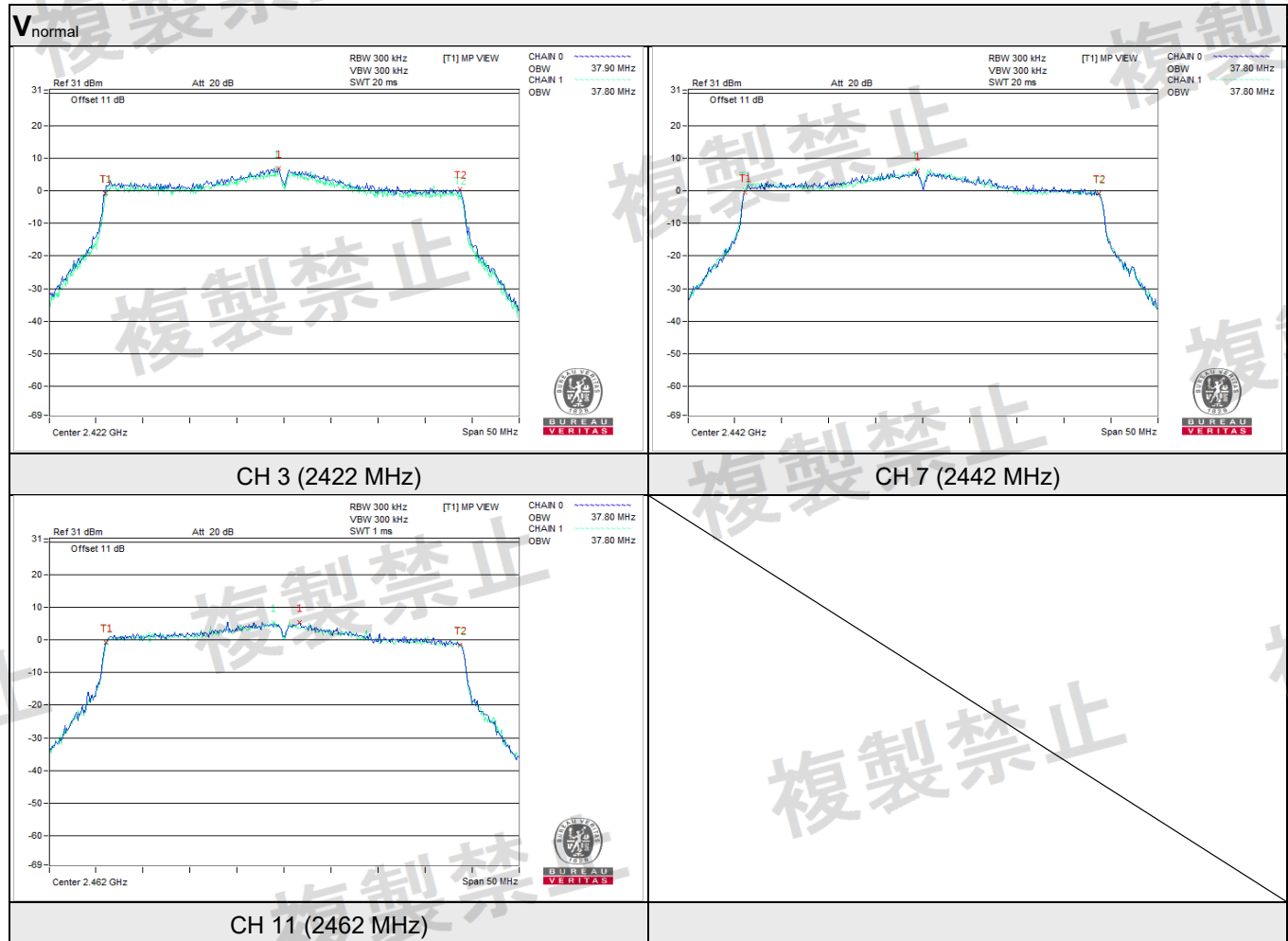
NOTE: For the test plots please refer to the below pages.

802.11be (EHT40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.80
7	2442	37.80
11	2462	37.80

NOTE: For the test plots please refer to the below pages.

802.11be (EHT40) Graph



7.3 Spurious Emissions

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

802.11b Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	30.364	0.000178 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2250.207	0.023174 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.994	3.040885 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2486.852	0.019679 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5485.046	0.029174 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	38.609	0.000143 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2204.956	0.02851 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.238	0.023388 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.166	0.019679 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8572.376	0.029309 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	64.556	0.000142 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2310.368	0.03281 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.722	0.032509 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.505	3.630781 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5577.578	0.032584 uW/MHz	1.25 uW/MHz	PASS

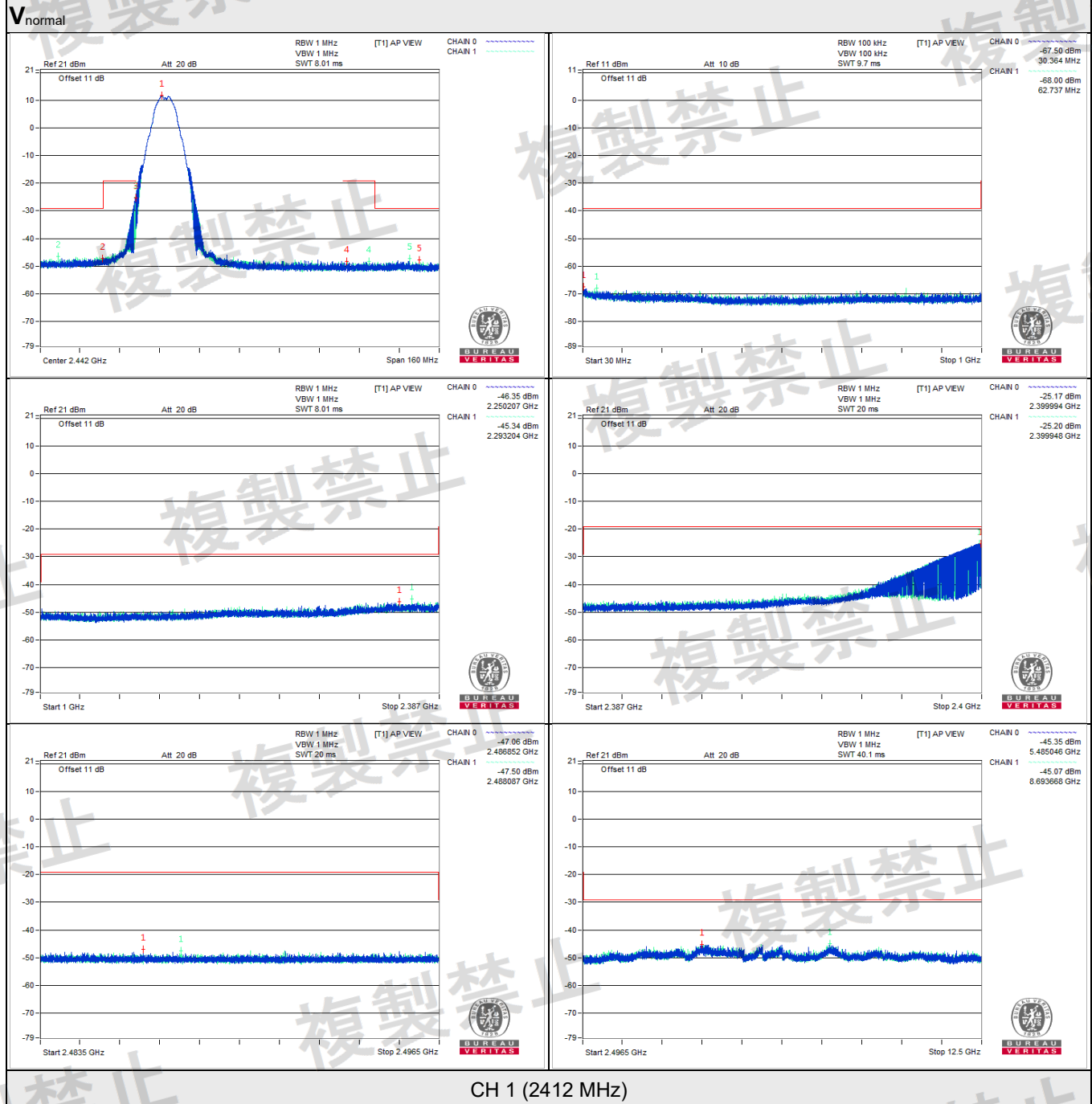
NOTE: 1. The spectrum plots are attached on the following pages.

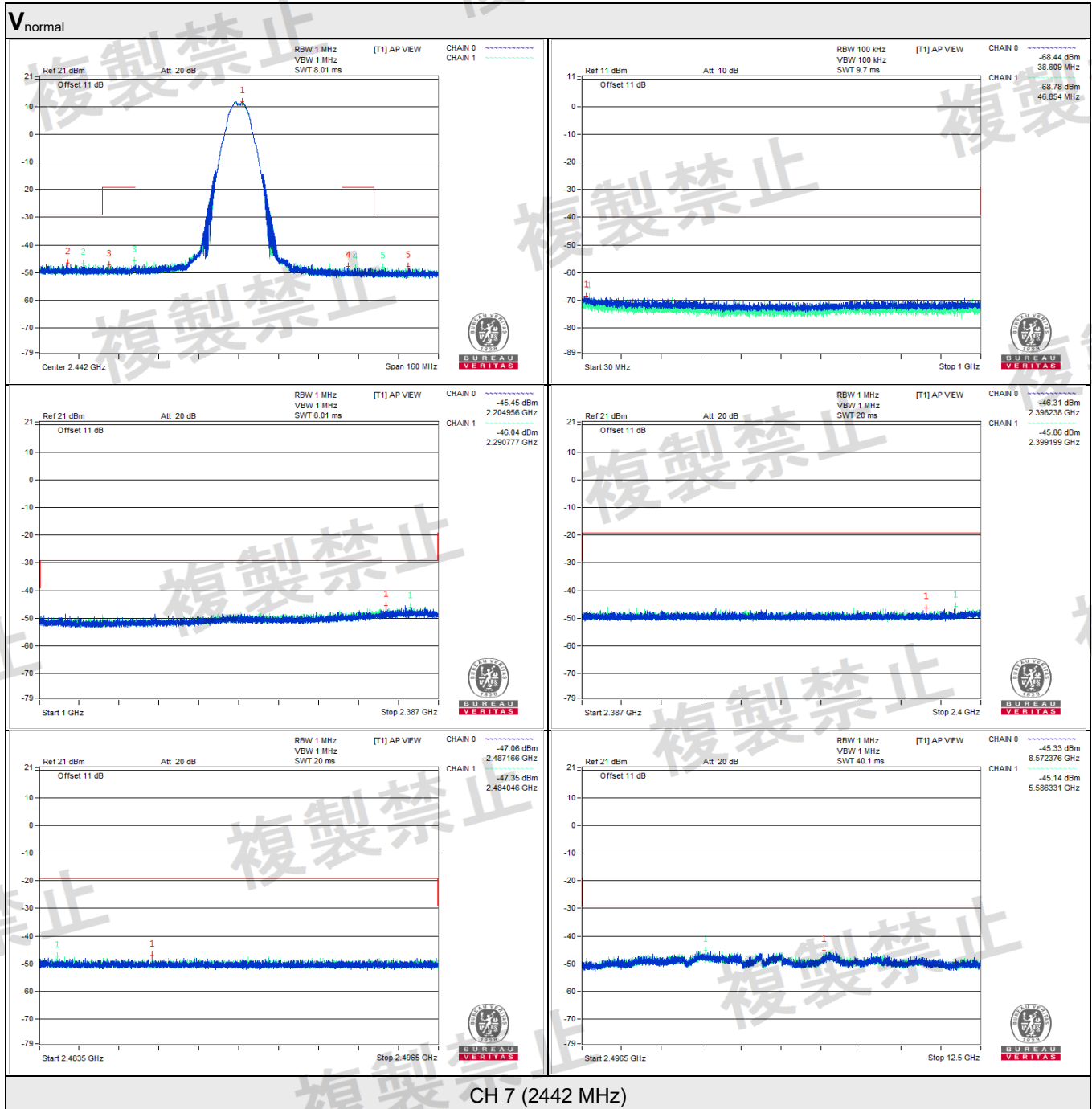
802.11b Chain 1

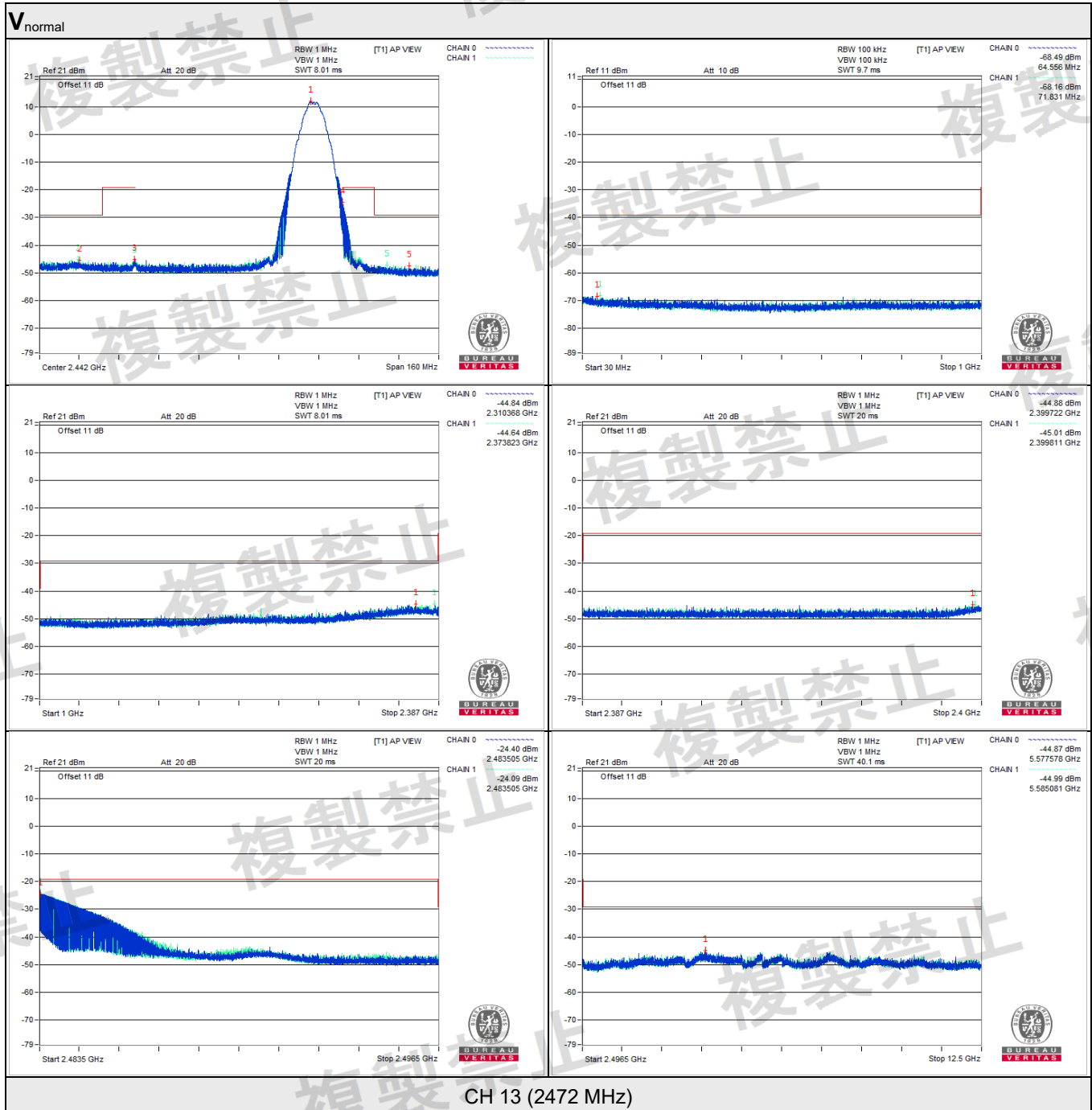
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	62.737	0.000158 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2293.204	0.029242 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.948	3.019952 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2488.087	0.017783 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8693.668	0.031117 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	46.854	0.000132 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2290.777	0.024889 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.199	0.025942 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2484.046	0.018408 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5586.331	0.03062 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	71.831	0.000153 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2373.823	0.034356 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.811	0.03155 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.505	3.89942 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5585.081	0.031696 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11b Graph







802.11b [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000356 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.058484 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	6.081770 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.039358 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.062234 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000286 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.057020 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.051884 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.039358 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.061240 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000306 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.068712 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.065018 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	7.798840 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.065168 uW/MHz	2.5 uW/MHz	PASS

802.11g Chain 0

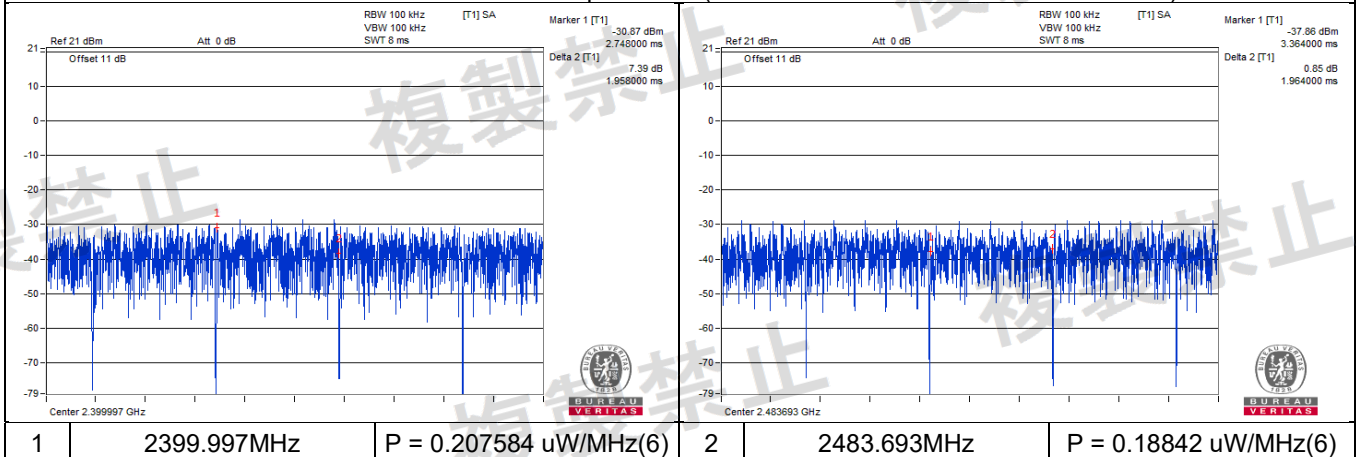
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	33.638	0.000175 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.424	0.031769 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.997	0.207584 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2495.696	0.018239 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5467.539	0.029648 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	39.579	0.000173 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2272.226	0.030549 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.937	0.029854 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2485.624	0.020749 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8722.428	0.039084 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	35.093	0.000197 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2251.074	0.043752 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.938	0.051404 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.693	0.18842 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	8698.670	0.032584 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11g Chain 1

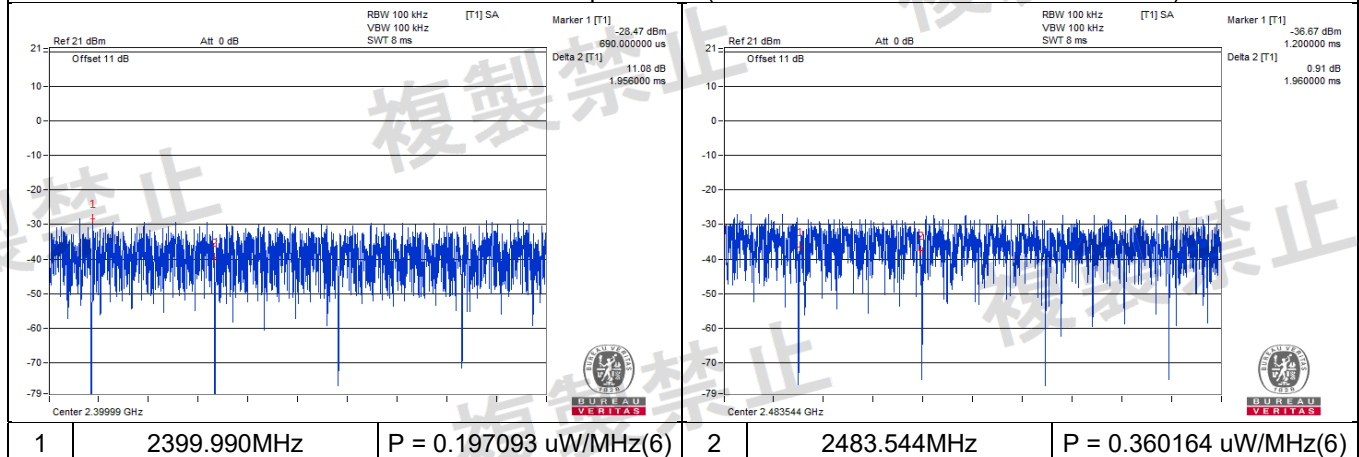
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	35.699	0.000172 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2336.374	0.033113 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.990	0.197093 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2485.500	0.01652 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8684.915	0.03062 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	33.759	0.000169 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2339.495	0.033963 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.972	0.029717 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2485.364	0.019187 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6990.572	0.030903 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	32.061	0.000178 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2318.864	0.040551 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.925	0.041976 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.544	0.360164 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	5477.543	0.027861 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

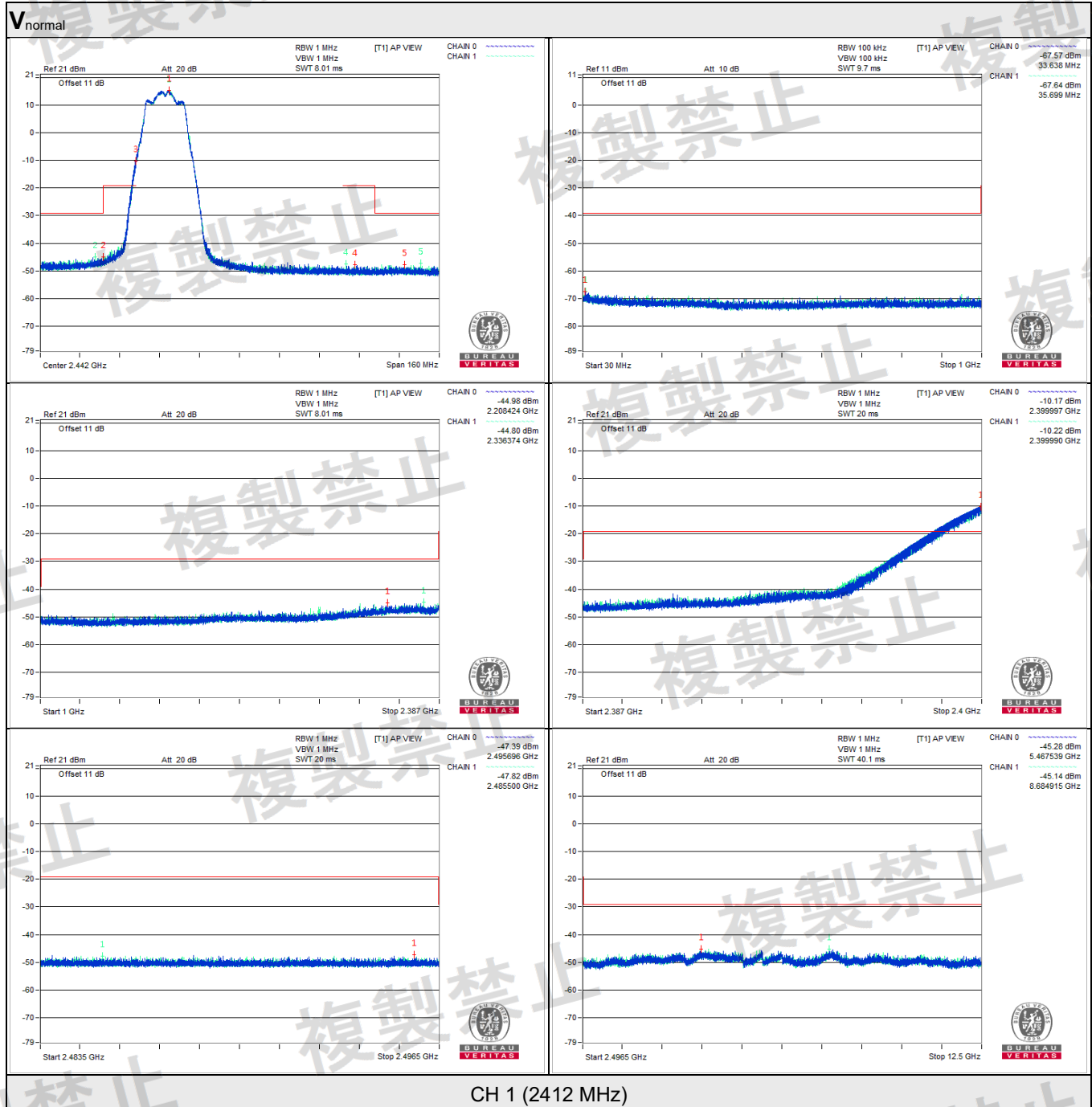
2. (No.): The value was tested under Measuring Mode *Zero Span.

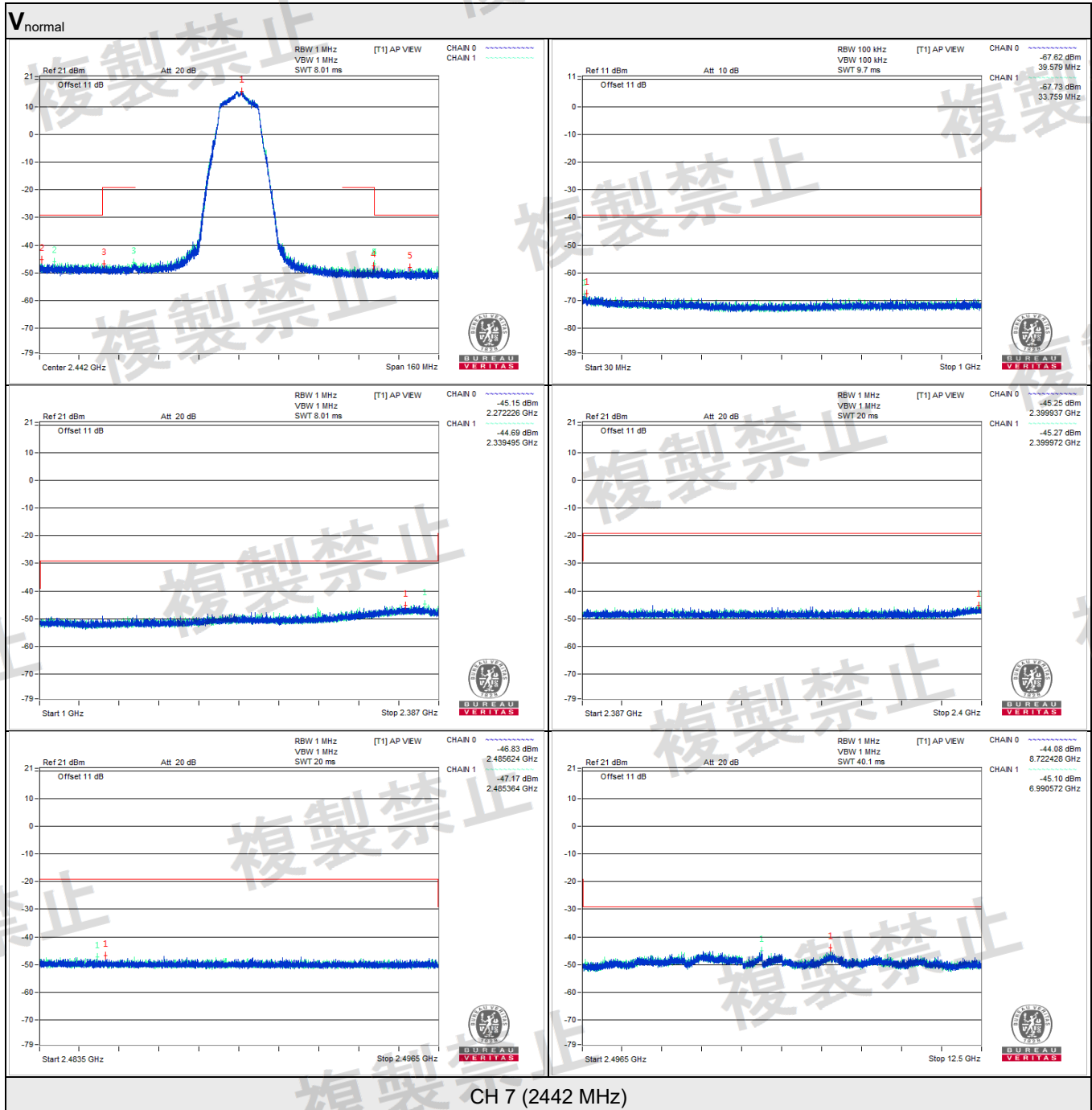
Measuring Mode *Zero Span

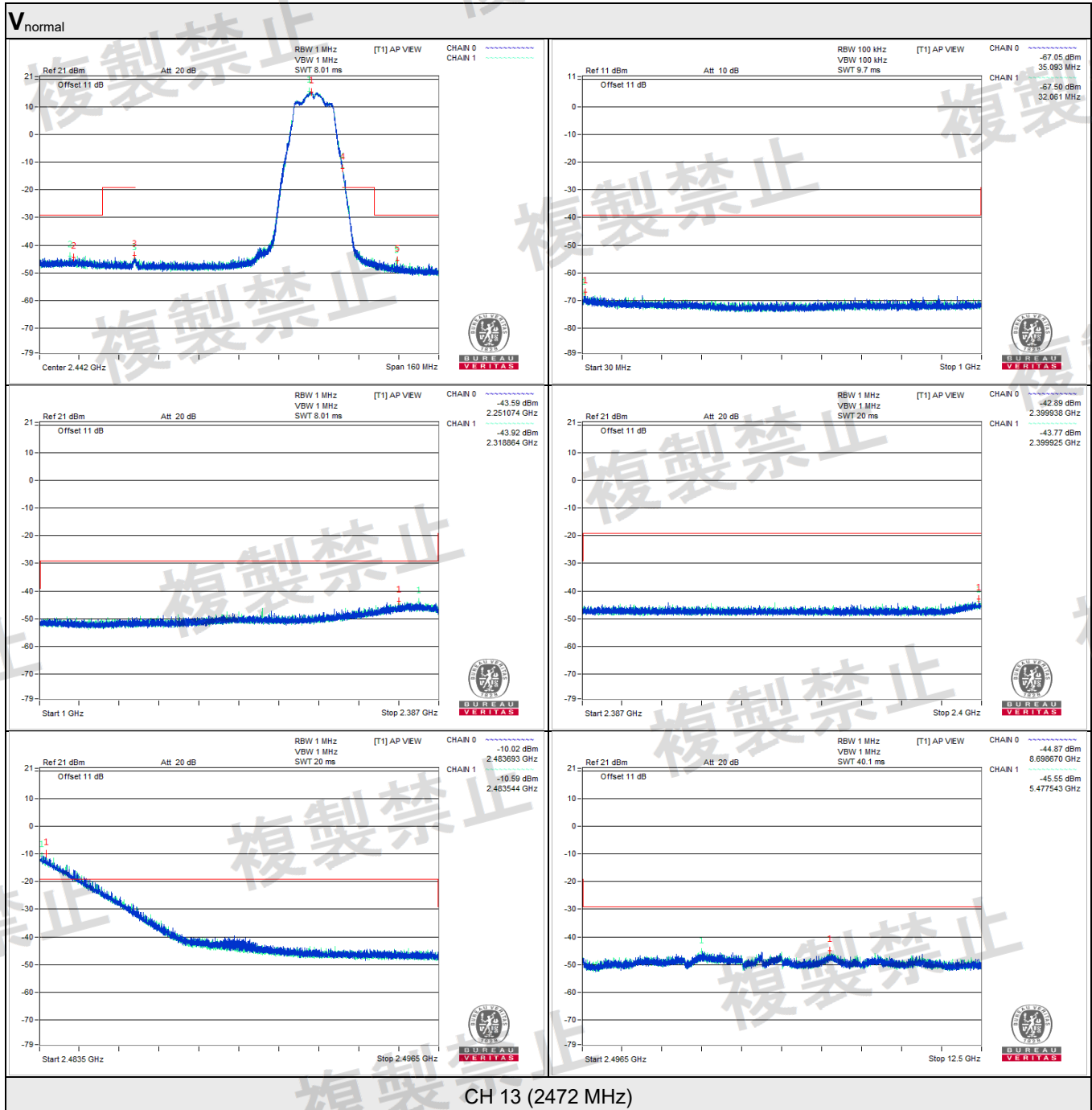
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11g Graph







802.11g [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000350 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.066226 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.415168 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.036478 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.061240 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000346 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.067926 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.059708 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.041498 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.078168 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000394 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.087504 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.102808 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.720328 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.065168 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT20) Chain 0

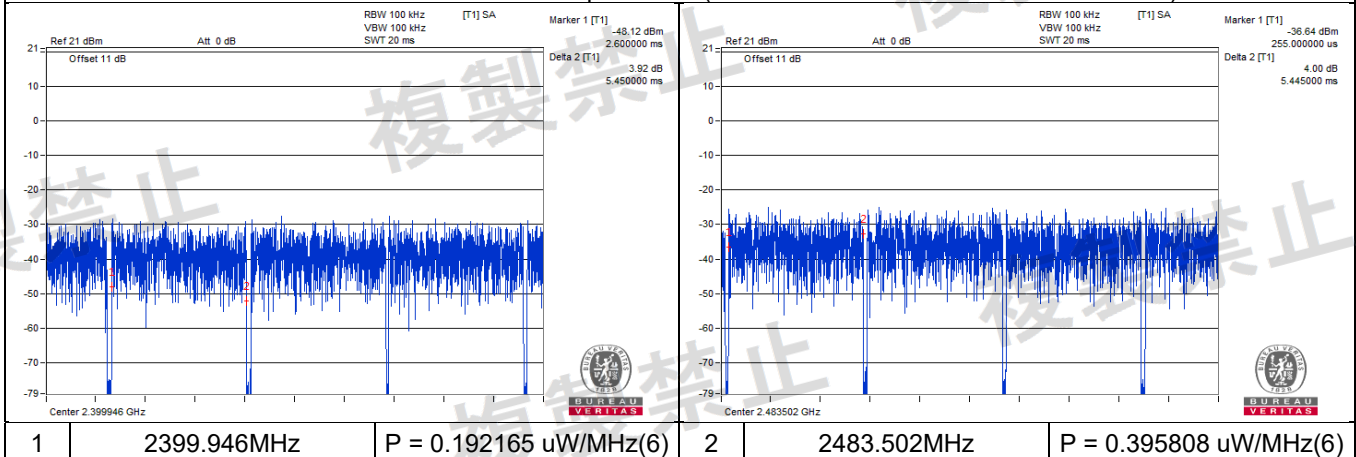
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	30.242	0.000161 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2207.904	0.090991 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.946	0.192165 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.584	0.029174 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5415.021	0.031915 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	33.274	0.000157 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2256.449	0.124165 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.974	0.090365 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2495.894	0.033651 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5535.063	0.029854 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	34.123	0.000161 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2293.551	0.041783 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.680	0.038282 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.502	0.395808 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	5730.131	0.029648 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT20) Chain 1

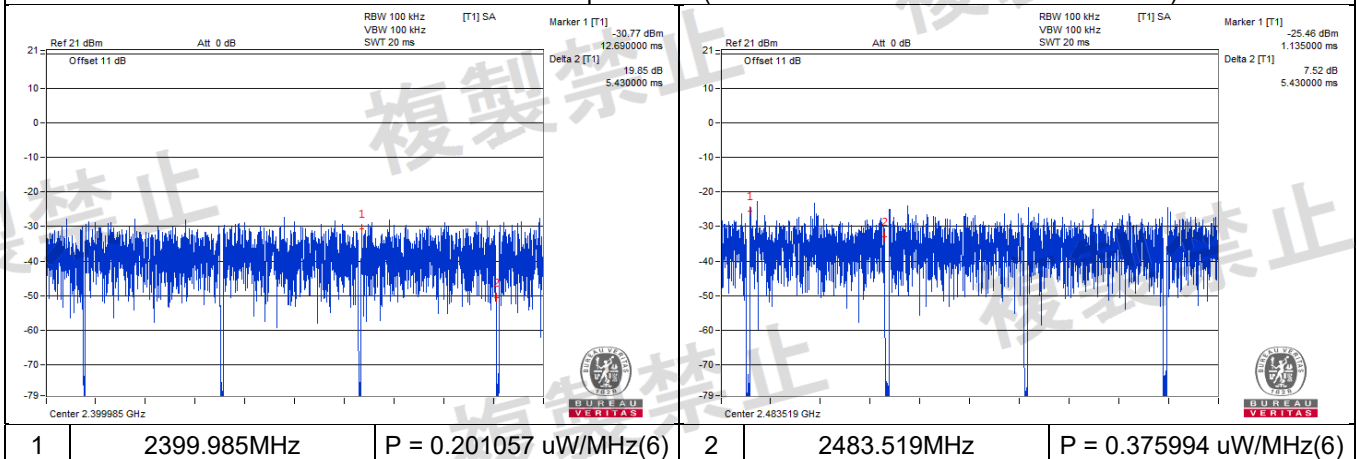
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	903.606	0.000504 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.250	0.103039 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.985	0.201057 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2495.397	0.029785 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5533.813	0.033189 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	46.733	0.000149 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.077	0.103276 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.647	0.100693 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2486.344	0.036898 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5427.525	0.0302 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	43.095	0.000174 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2322.505	0.039537 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.802	0.038548 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.519	0.375994 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	5505.053	0.029785 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

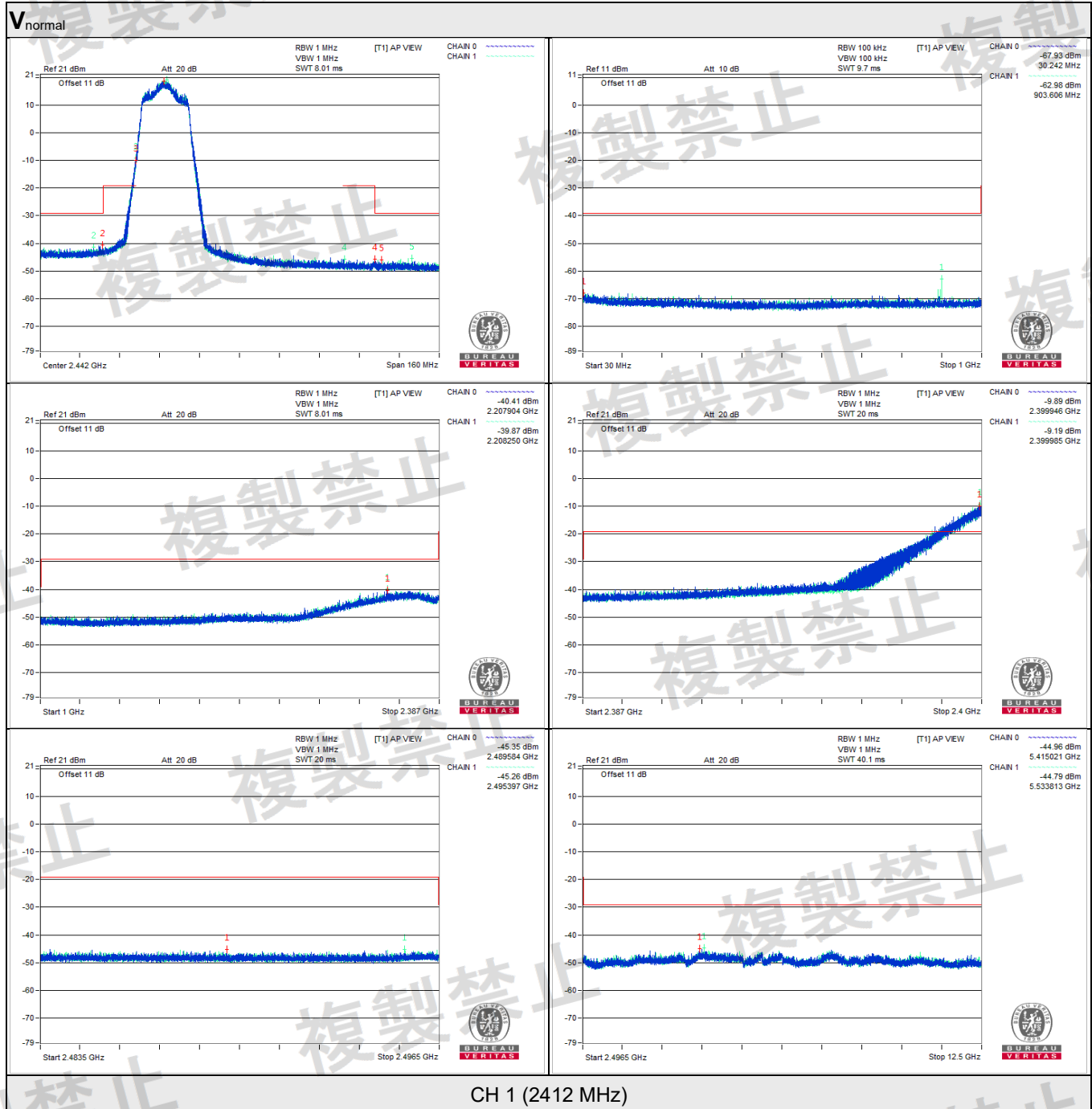
2. (No.): The value was tested under Measuring Mode *Zero Span.

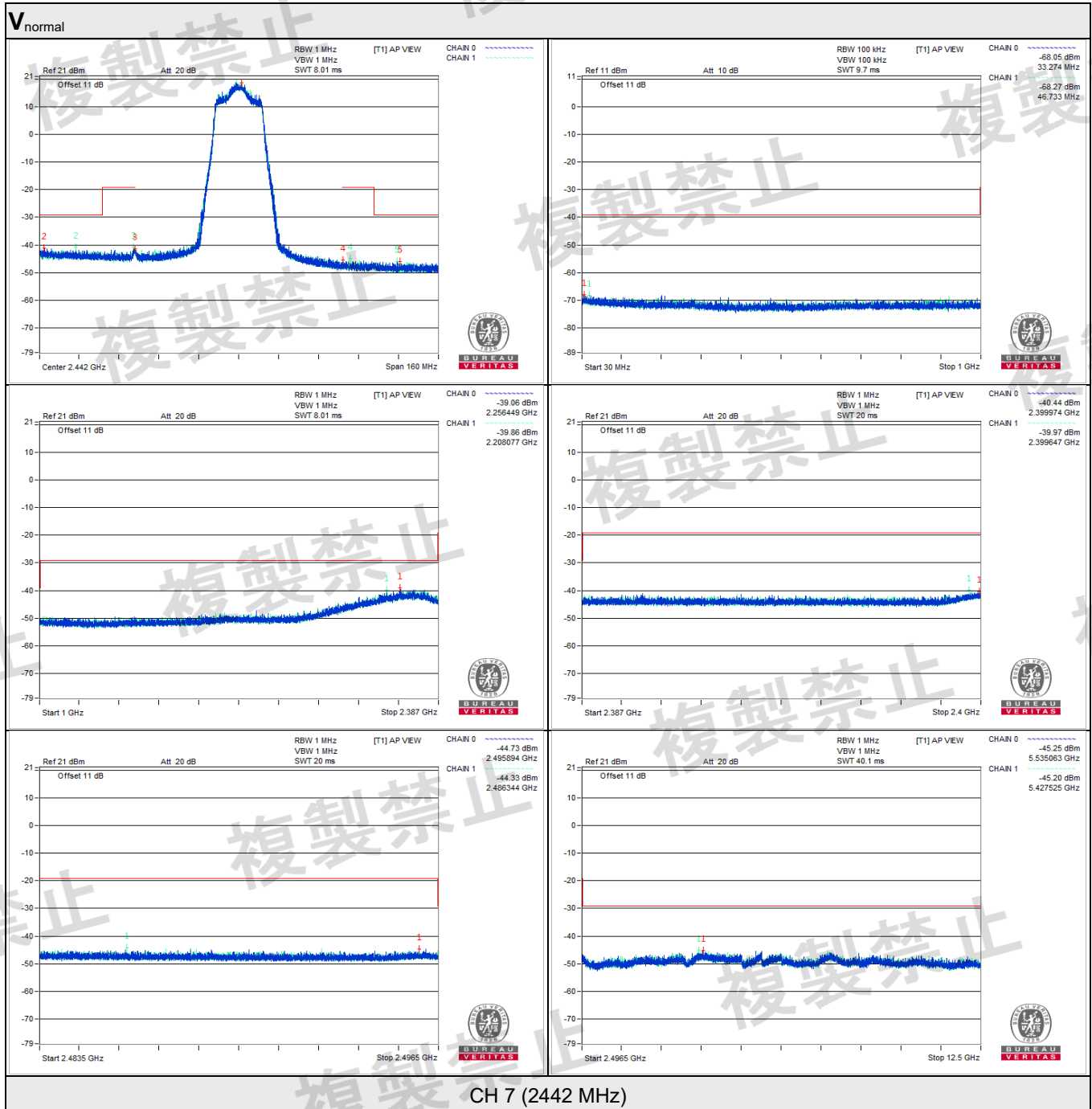
Measuring Mode *Zero Span

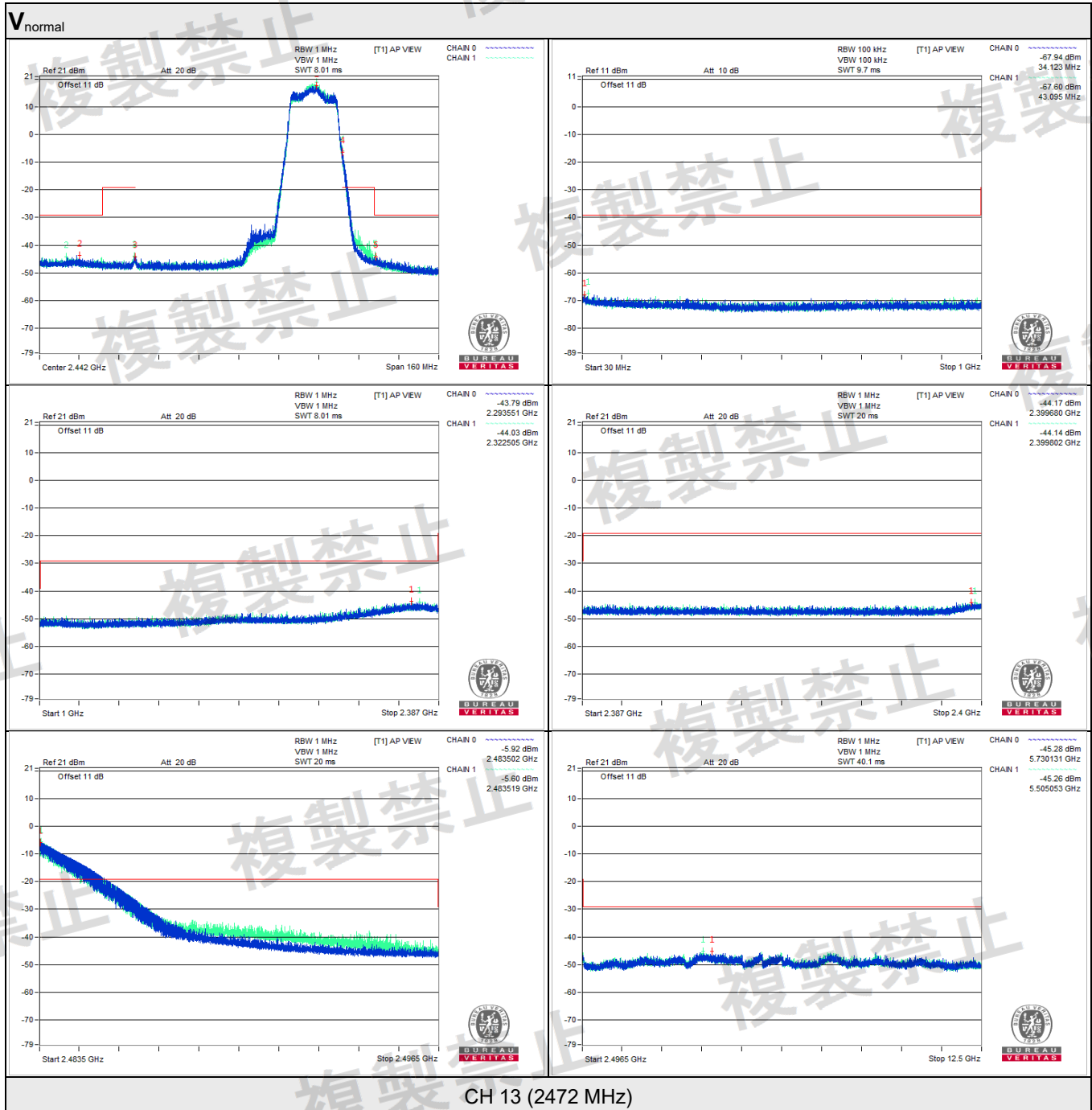
- Set the spectrum analyzer as below and it takes in a value of all data point.
- Regarding the all data value, it transforms the "dBm" value into "uW" value.
- It adds the all values and calculates a grand total. Define a grand total as "P".
- It divides "P" by sample data point (>400) and calculates the mean value.
- It reports the mean value.
- This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT20) Graph







802.11be (EHT20) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.001008 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.206078 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.402114 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.059570 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.066378 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000314 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.248330 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.201386 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.073796 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.060400 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000348 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.083566 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.077096 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.791616 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.059570 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT40) Chain 0

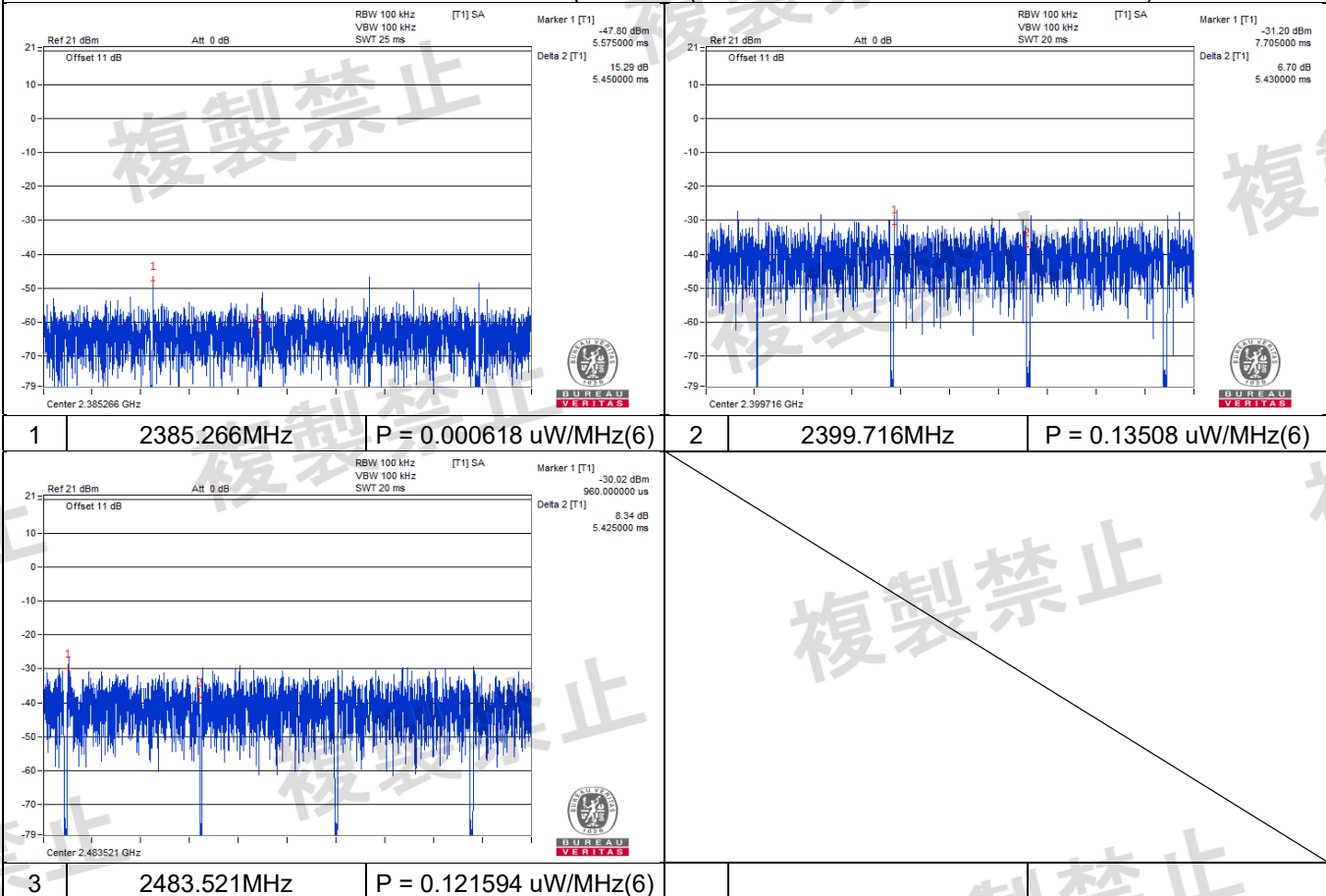
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	40.306	0.000177 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.266	0.000618 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.716	0.13508 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2486.709	0.021184 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8864.978	0.033963 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	40.428	0.000158 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2256.275	0.035727 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.547	0.17338 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2486.930	0.057148 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5314.986	0.029992 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	42.367	0.000179 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2298.405	0.044463 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.521	0.048529 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.521	0.121594 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	2496.500	0.036559 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT40) Chain 1

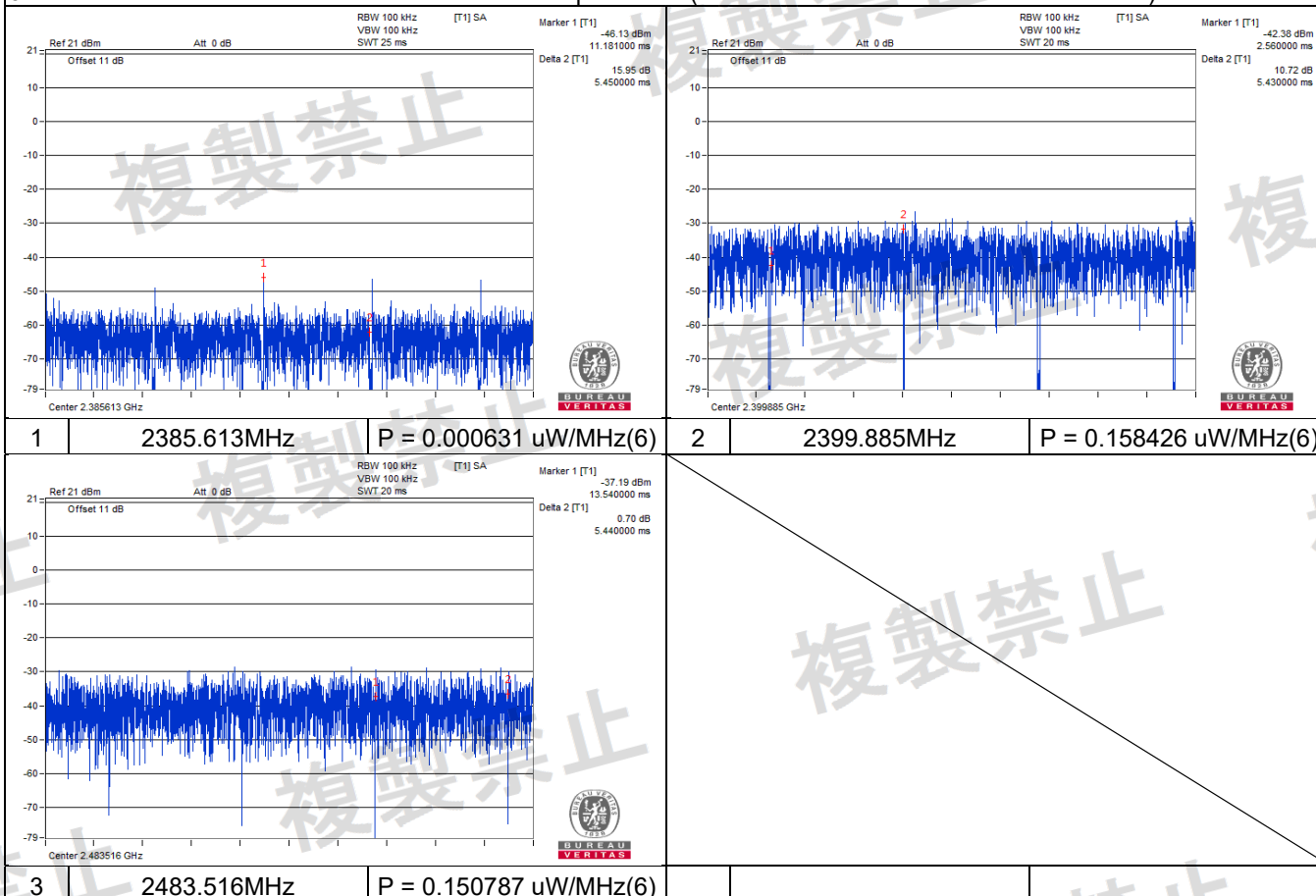
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	85.532	0.000168 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.613	0.000631 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.885	0.158426 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2484.893	0.023933 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5348.748	0.033729 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	34.244	0.000195 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2348.337	0.036058 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.526	0.158855 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2485.502	0.062373 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6996.825	0.035318 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	37.760	0.000197 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2296.672	0.057677 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.807	0.051286 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.516	0.150787 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	8766.194	0.032659 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

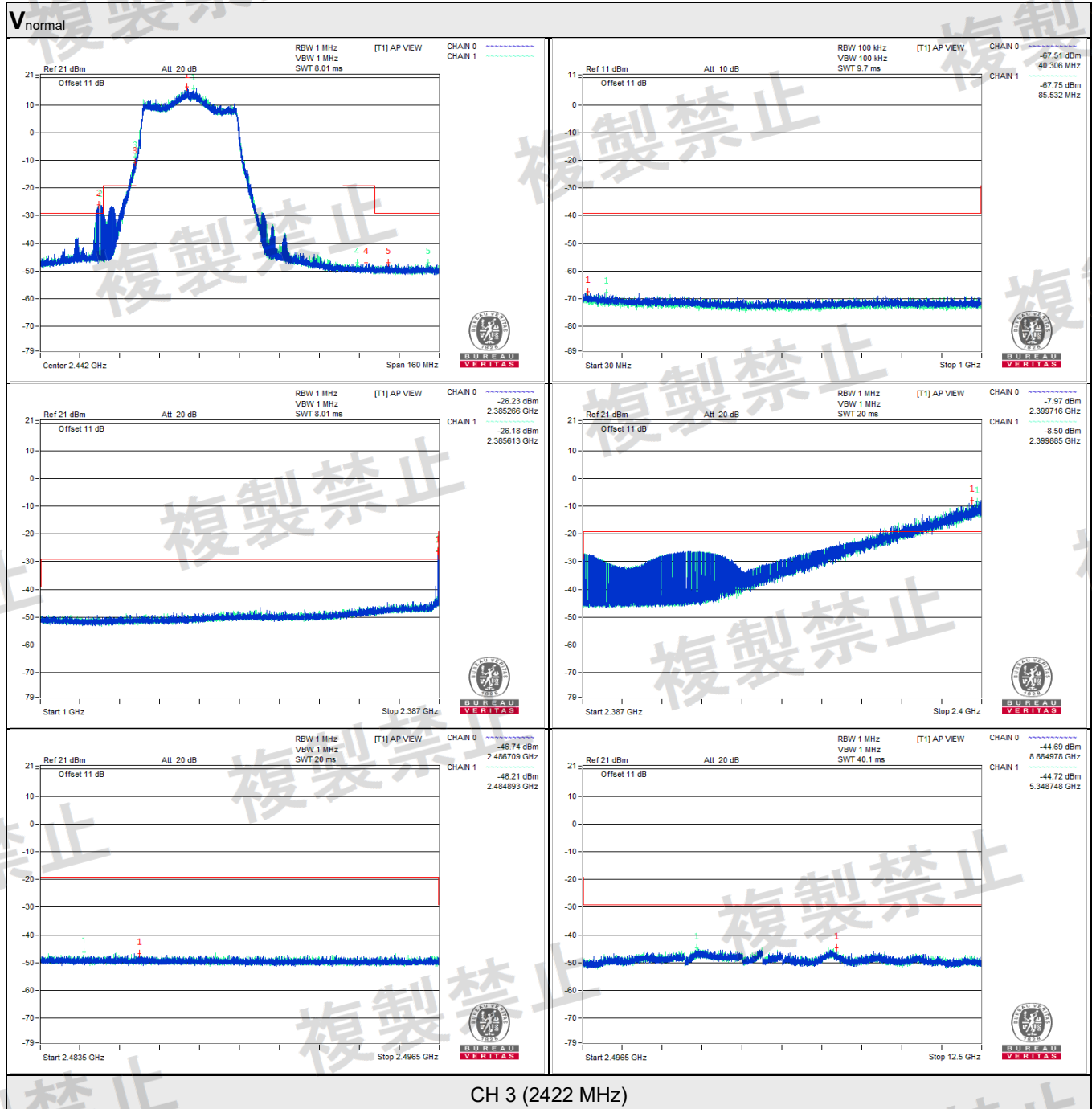
2. (No.): The value was tested under Measuring Mode *Zero Span.

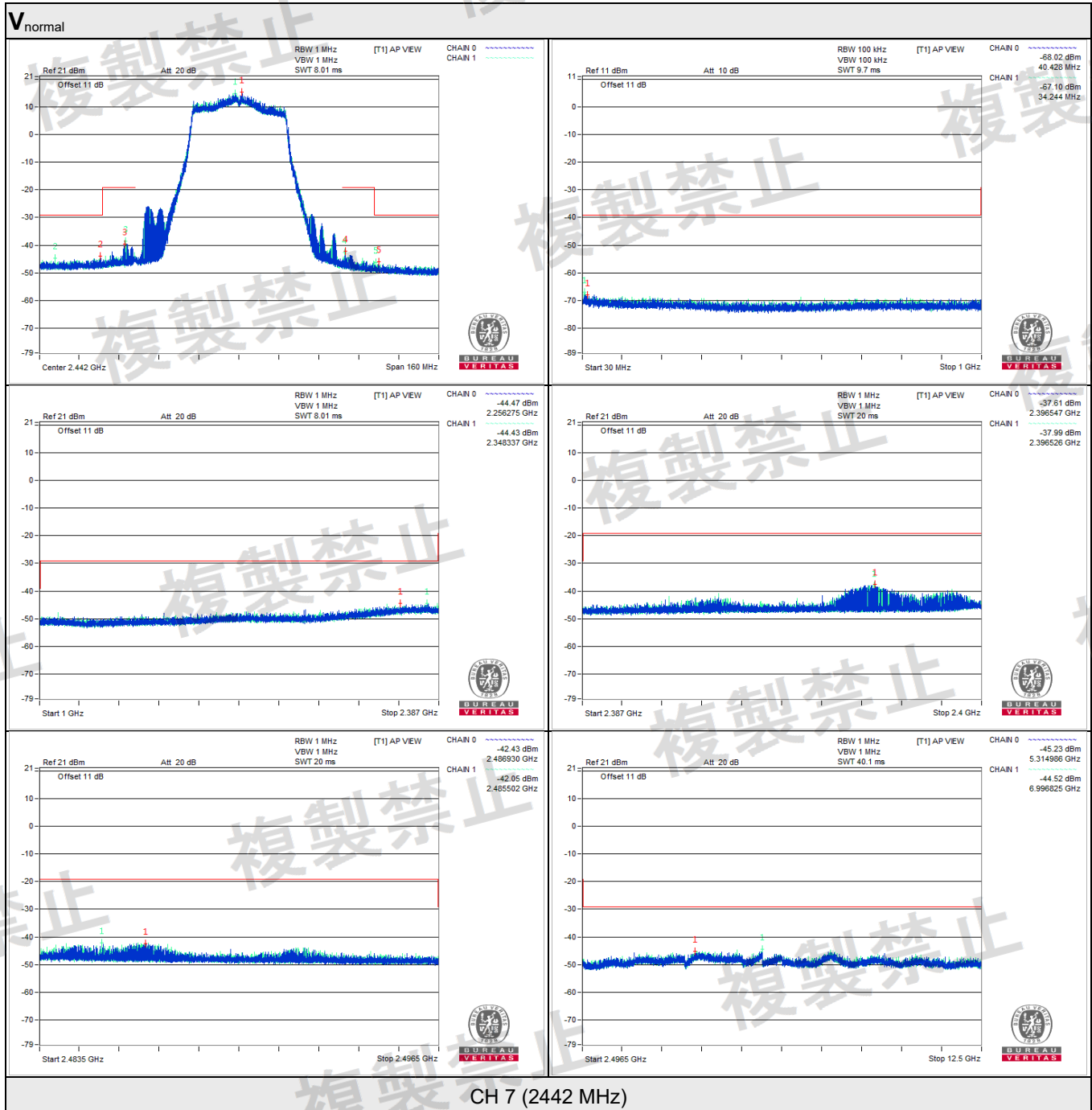
Measuring Mode *Zero Span

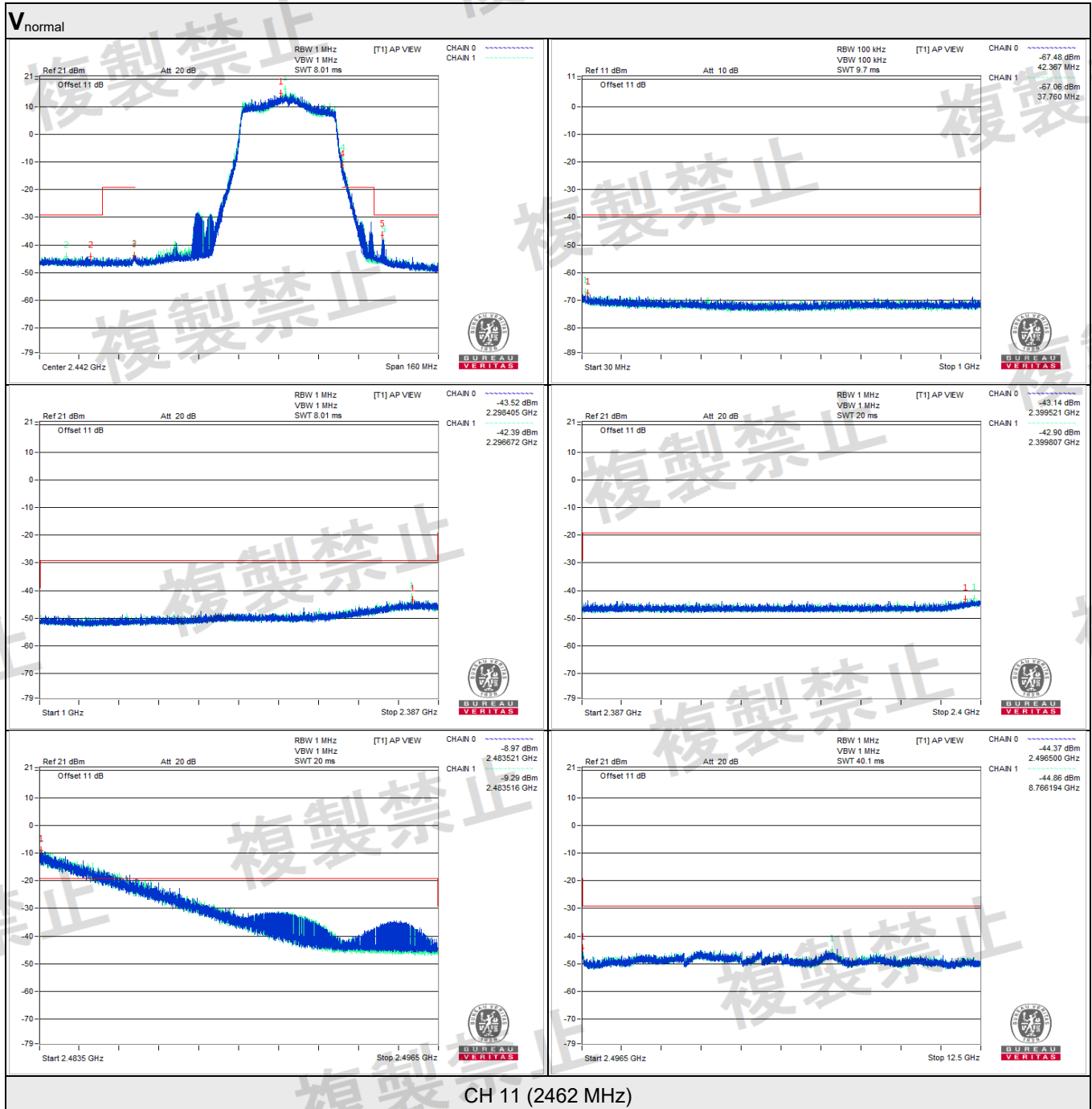
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT40) Graph







802.11be (EHT40) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000354 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.001262 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.316852 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.047866 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.067926 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000390 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.072116 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.346760 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.124746 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.070636 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V _{normal}	30.0 to 1000.0	0.000394 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.115354 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.102572 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.301574 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.073118 uW/MHz	2.5 uW/MHz	PASS

Internal Antenna (Mode B)
802.11b Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	34.608	0.000147 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2327.012	0.020941 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.979	1.109175 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2485.988	0.017378 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6983.070	0.034435 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	35.214	0.000164 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2256.795	0.028576 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2394.233	0.021086 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2492.572	0.021038 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	7389.462	0.02729 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	65.647	0.000146 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	1762.330	0.036898 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2395.603	0.02208 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.537	1.258925 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5521.308	0.032434 uW/MHz	1.25 uW/MHz	PASS

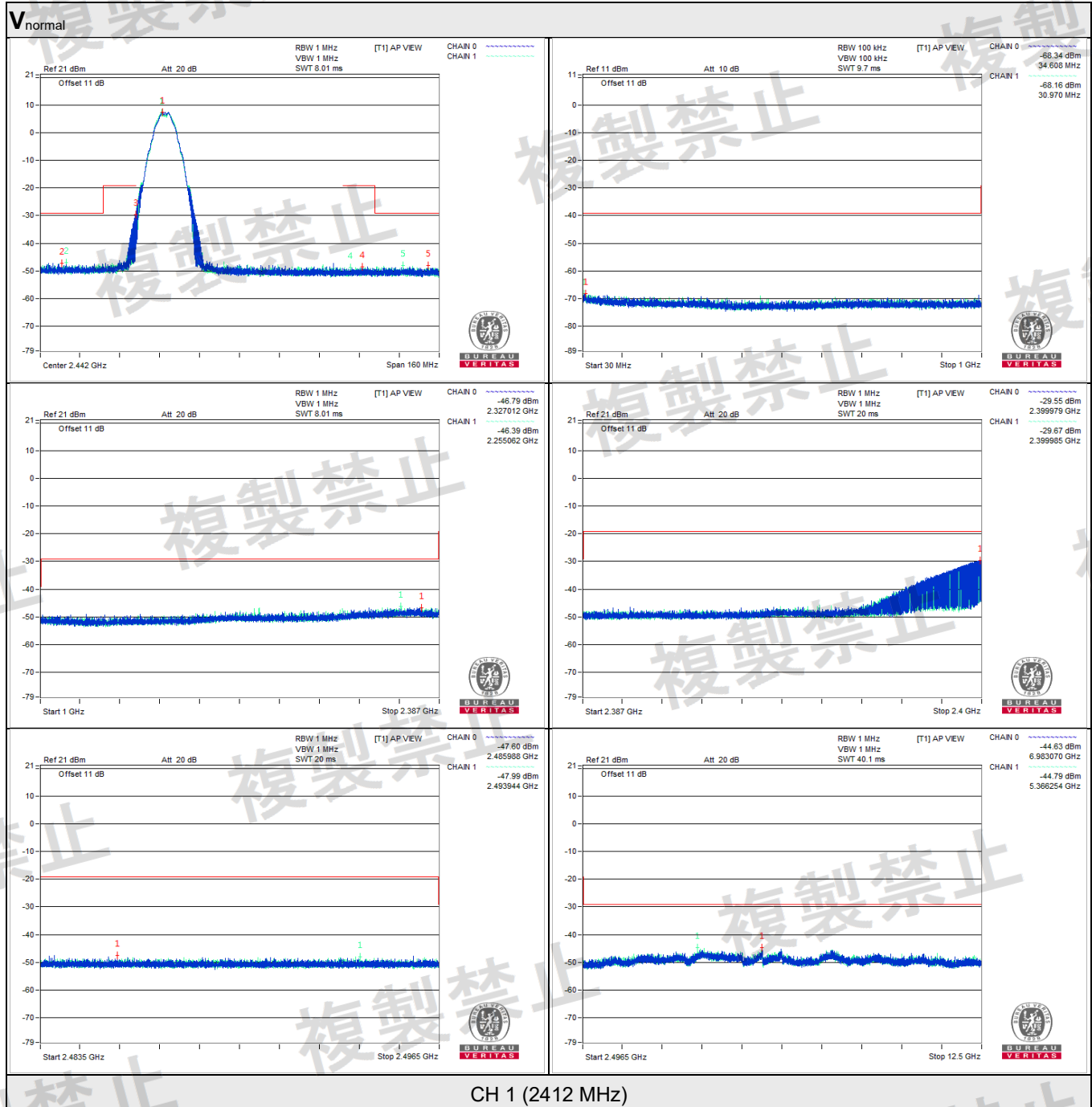
NOTE: 1. The spectrum plots are attached on the following pages.

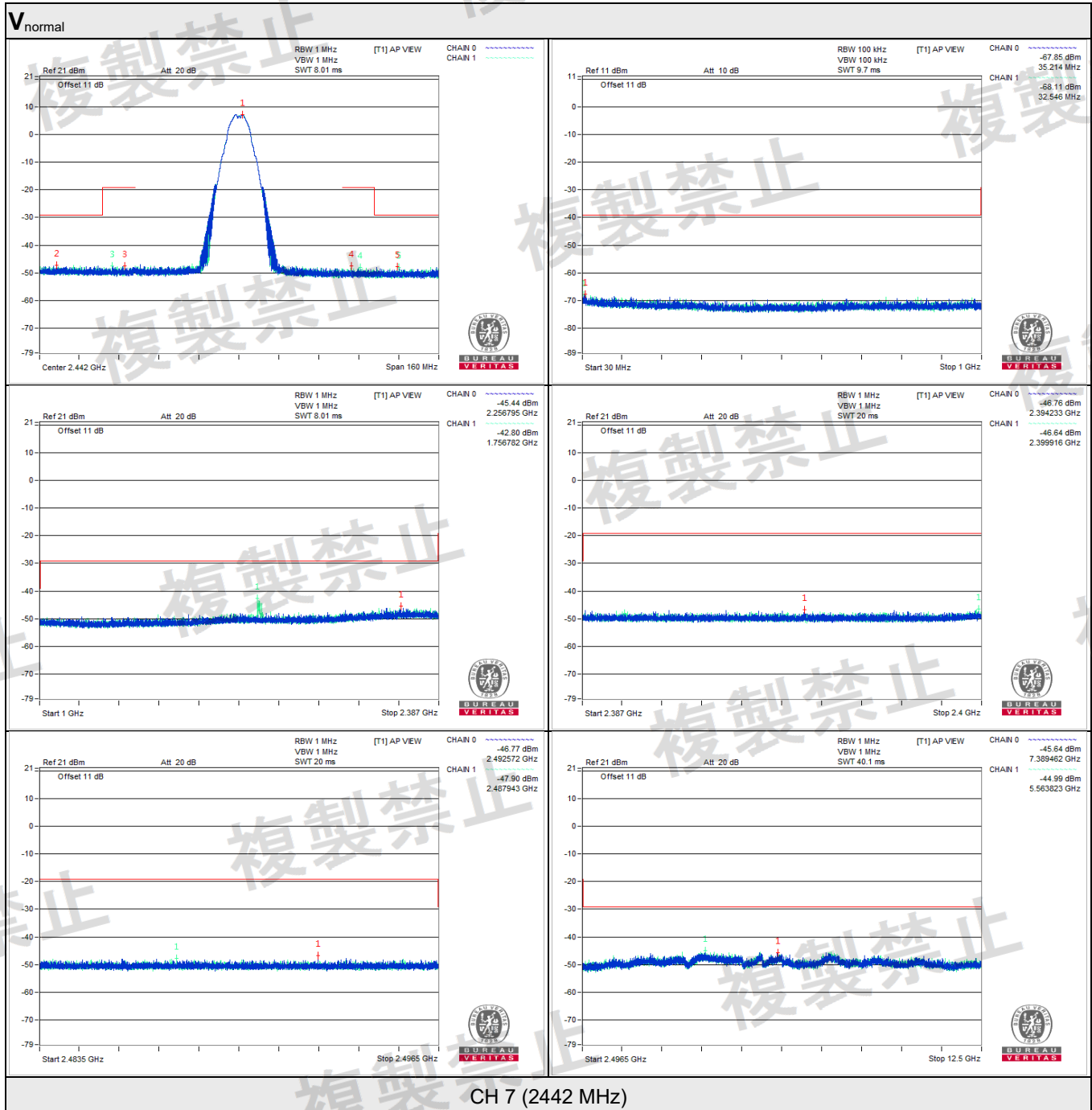
802.11b Chain 1

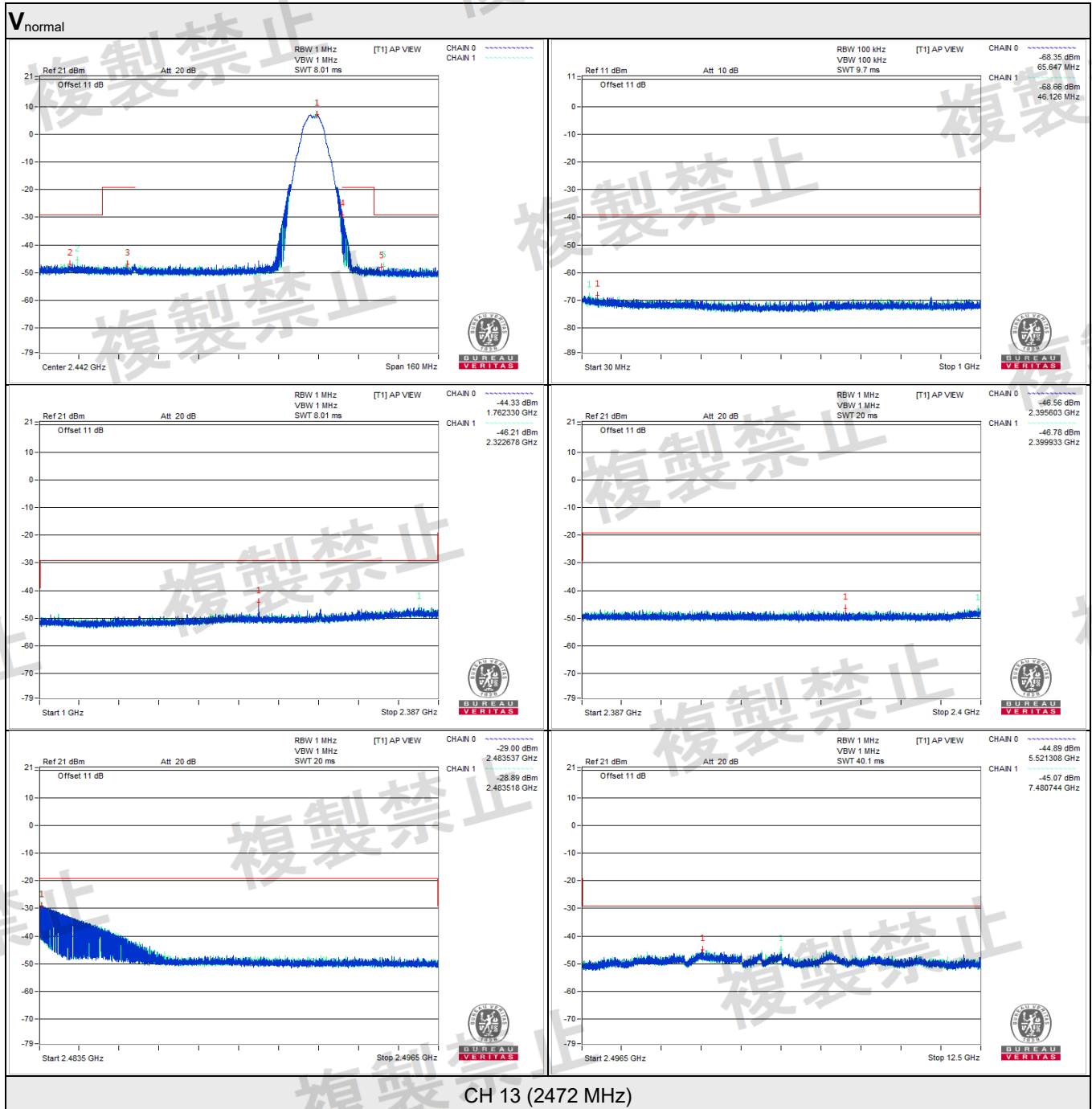
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	30.970	0.000153 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2255.062	0.022961 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.985	1.078947 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2493.944	0.015885 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5366.254	0.033189 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	32.546	0.000155 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	1756.782	0.052481 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.916	0.021677 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.943	0.016218 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5563.823	0.031696 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	46.126	0.000136 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2322.678	0.023933 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.933	0.020989 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.518	1.291219 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	7480.744	0.031117 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11b Graph







802.11b [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000306 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.045922 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	2.218350 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.034756 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.068870 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000328 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.104962 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.043354 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.042076 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.063392 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000292 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.073796 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.044160 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	2.582438 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.064868 uW/MHz	2.5 uW/MHz	PASS

802.11g Chain 0

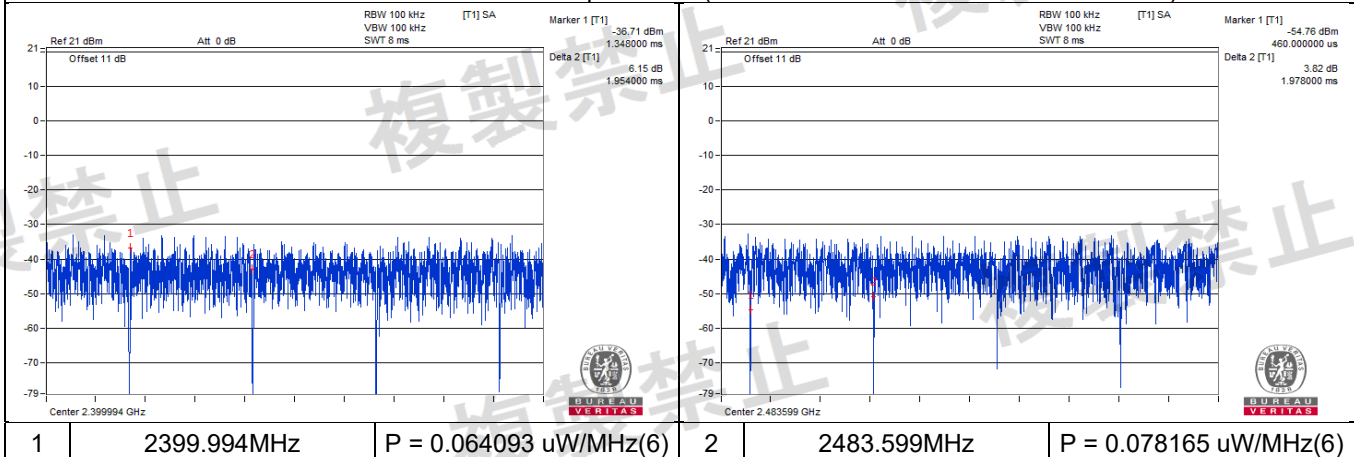
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	68.436	0.000162 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2164.387	0.024099 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.994	0.064093 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.361	0.017539 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5533.813	0.031842 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	30.727	0.000148 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2280.201	0.024099 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2391.137	0.023605 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.012	0.0171 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8759.941	0.034914 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	32.061	0.000175 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2207.730	0.02904 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2393.212	0.02884 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.599	0.078165 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	6991.823	0.039174 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11g Chain 1

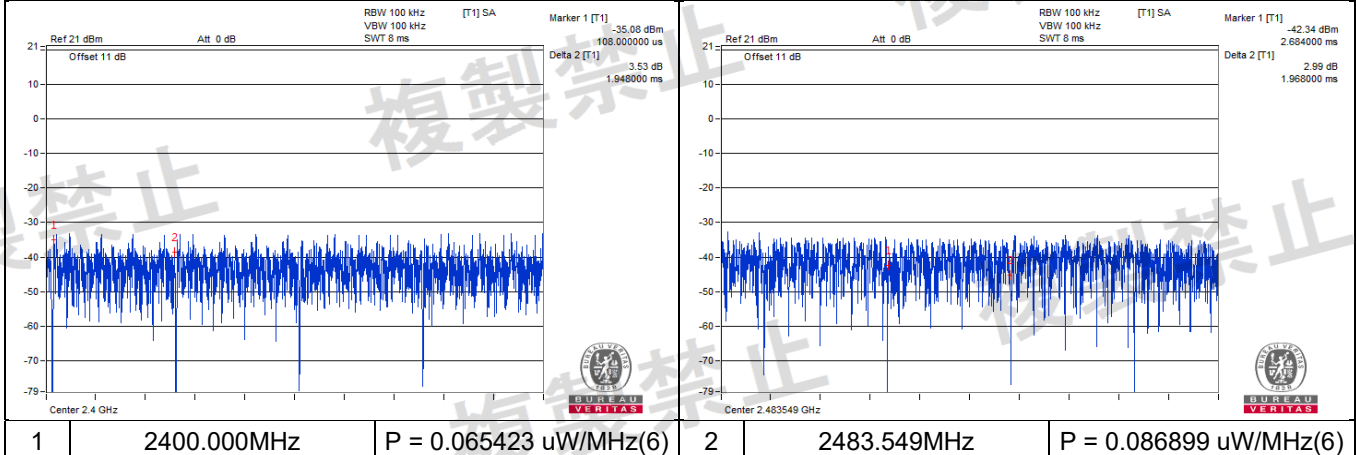
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	34.729	0.000142 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2289.390	0.031842 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2400.000	0.065423 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2486.344	0.017701 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8699.920	0.03062 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	81.653	0.000168 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2186.579	0.022803 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.441	0.025763 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2485.645	0.01803 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5696.370	0.02958 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	46.975	0.000133 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2339.322	0.031696 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2393.048	0.028907 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.549	0.086899 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	5517.557	0.029854 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

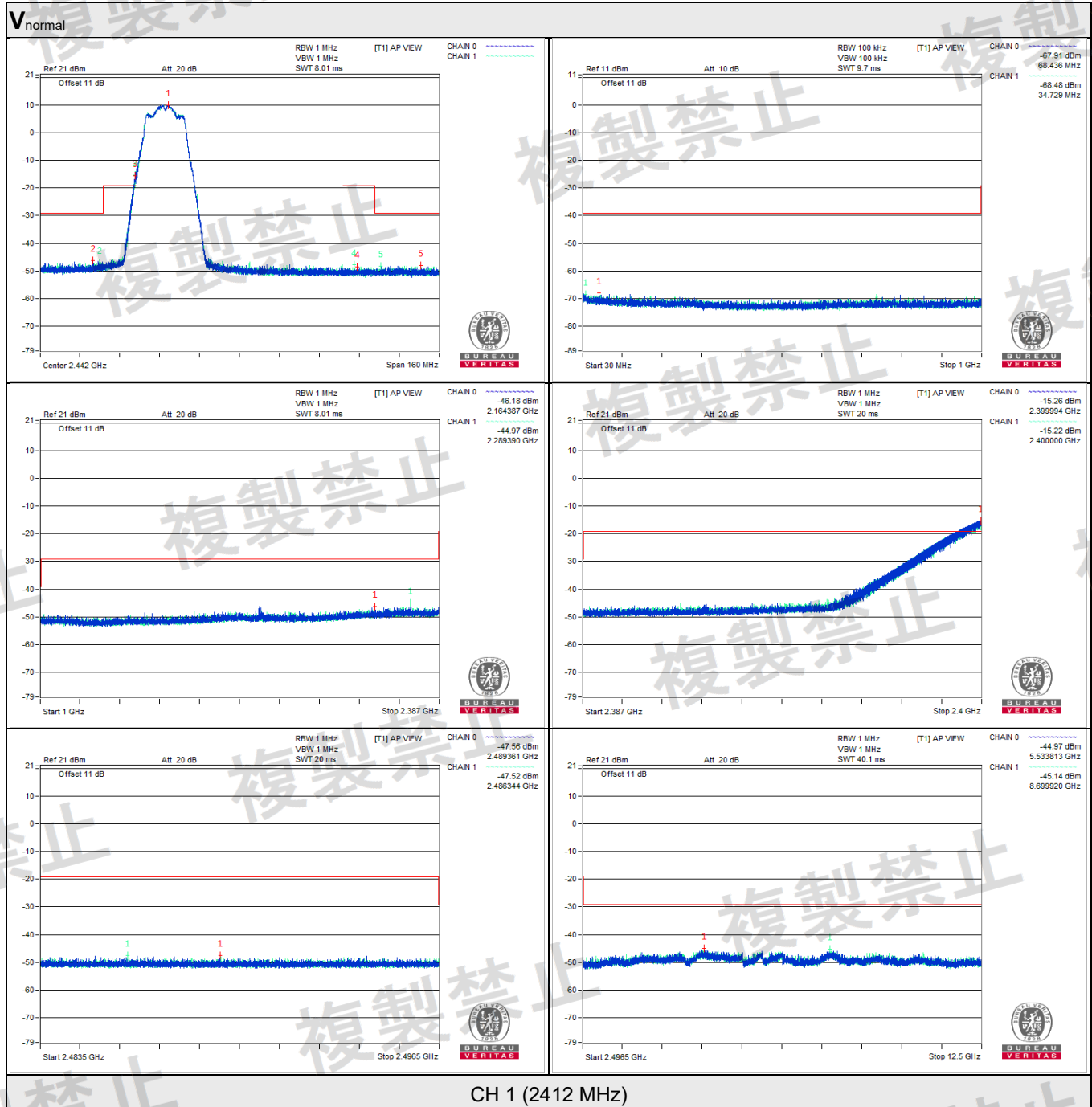
2. (No.): The value was tested under Measuring Mode *Zero Span.

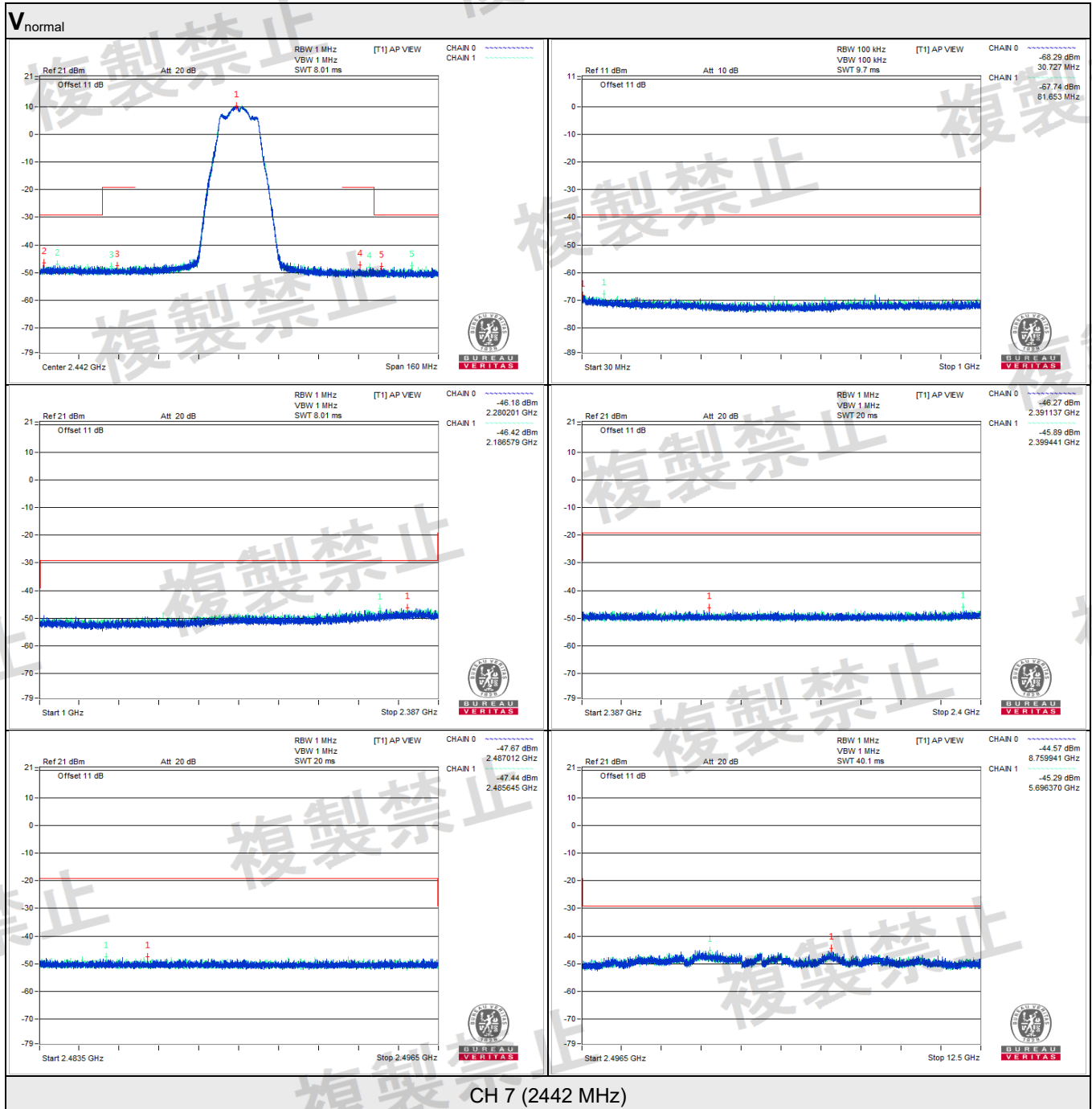
Measuring Mode *Zero Span

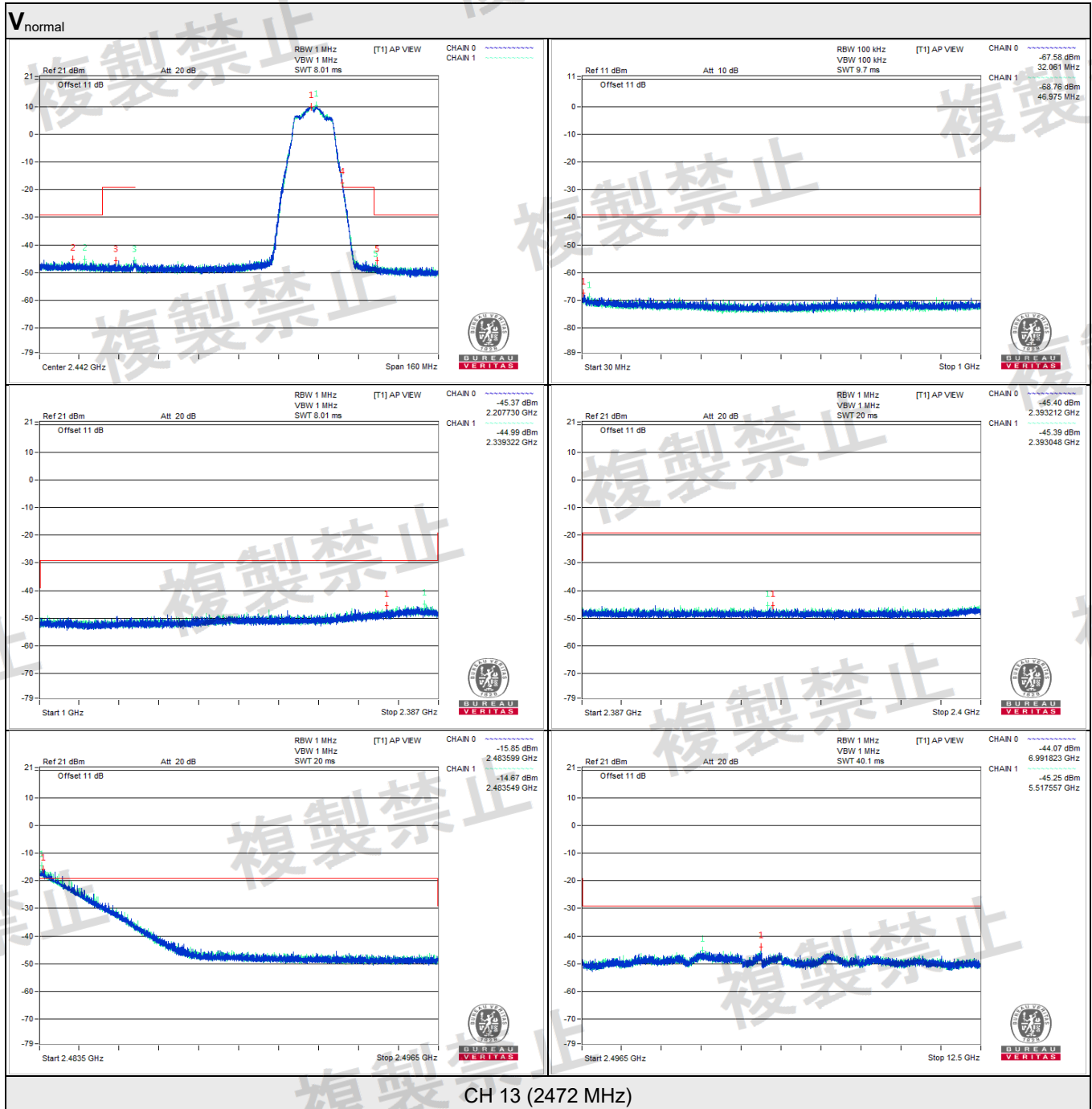
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11g Graph







CH 13 (2472 MHz)

802.11g [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000324 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.063684 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.130846 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.035402 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.063684 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000336 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.048198 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.051526 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.036060 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.069828 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000350 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.063392 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.057814 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.173798 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.078348 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT20) Chain 0

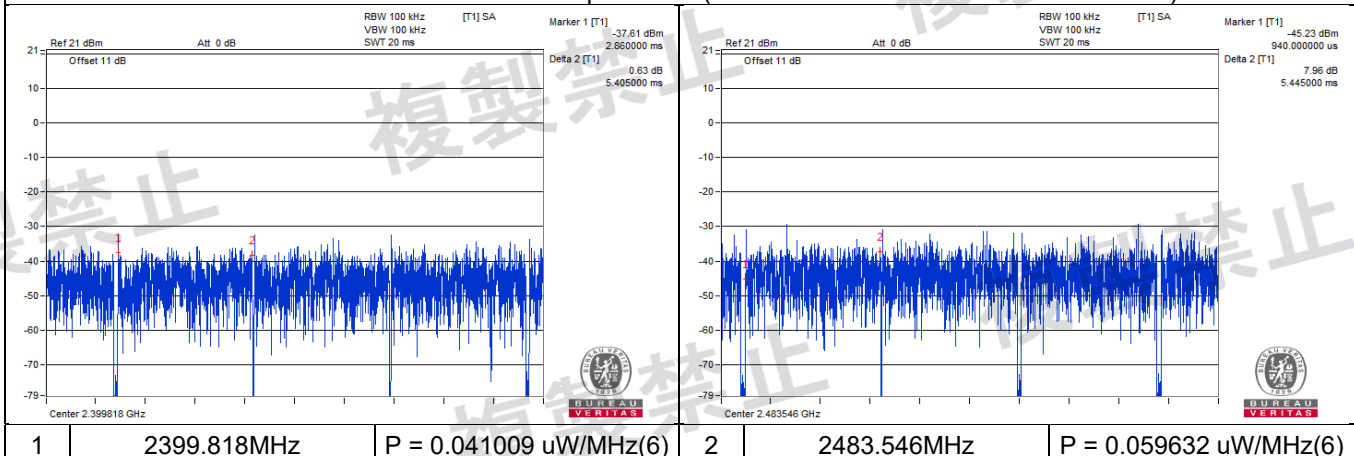
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	35.699	0.000177 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2383.532	0.025061 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.818	0.041009 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.548	0.015101 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5663.858	0.032359 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	33.274	0.000176 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2327.186	0.027353 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2387.096	0.021928 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2494.958	0.018239 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5638.849	0.028379 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	32.667	0.000167 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2311.755	0.03281 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2391.298	0.029242 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.546	0.059632 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	5460.037	0.02904 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT20) Chain 1

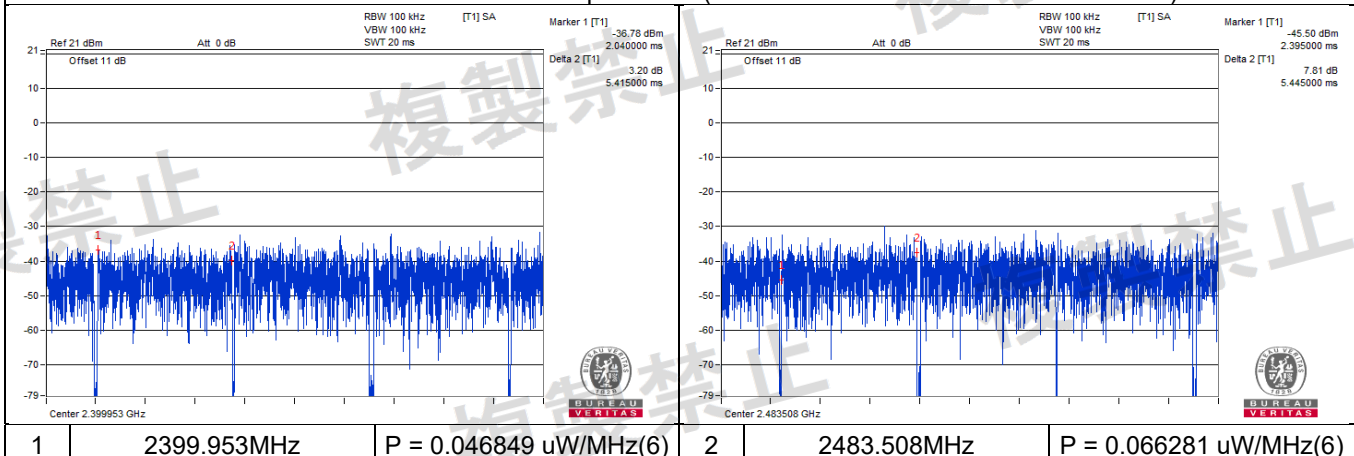
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	37.032	0.000157 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.250	0.022856 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.953	0.046849 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.044	0.017179 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5493.799	0.029854 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	36.790	0.000174 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2247.780	0.022856 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.885	0.026915 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.736	0.017061 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5858.926	0.028774 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	76.196	0.000166 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2320.944	0.030549 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2387.143	0.027542 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.508	0.066281 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	8807.458	0.034119 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

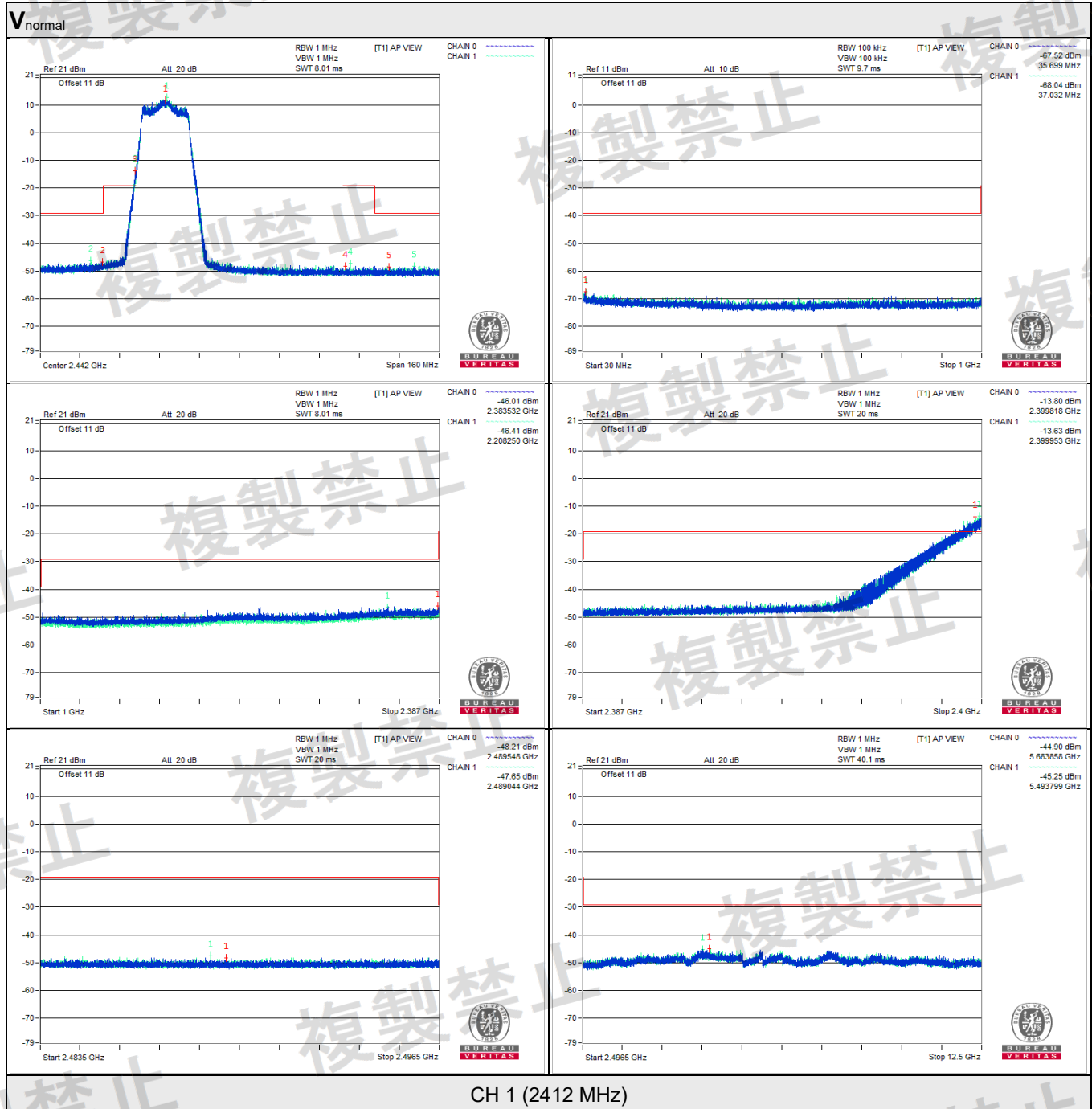
2. (No.): The value was tested under Measuring Mode *Zero Span.

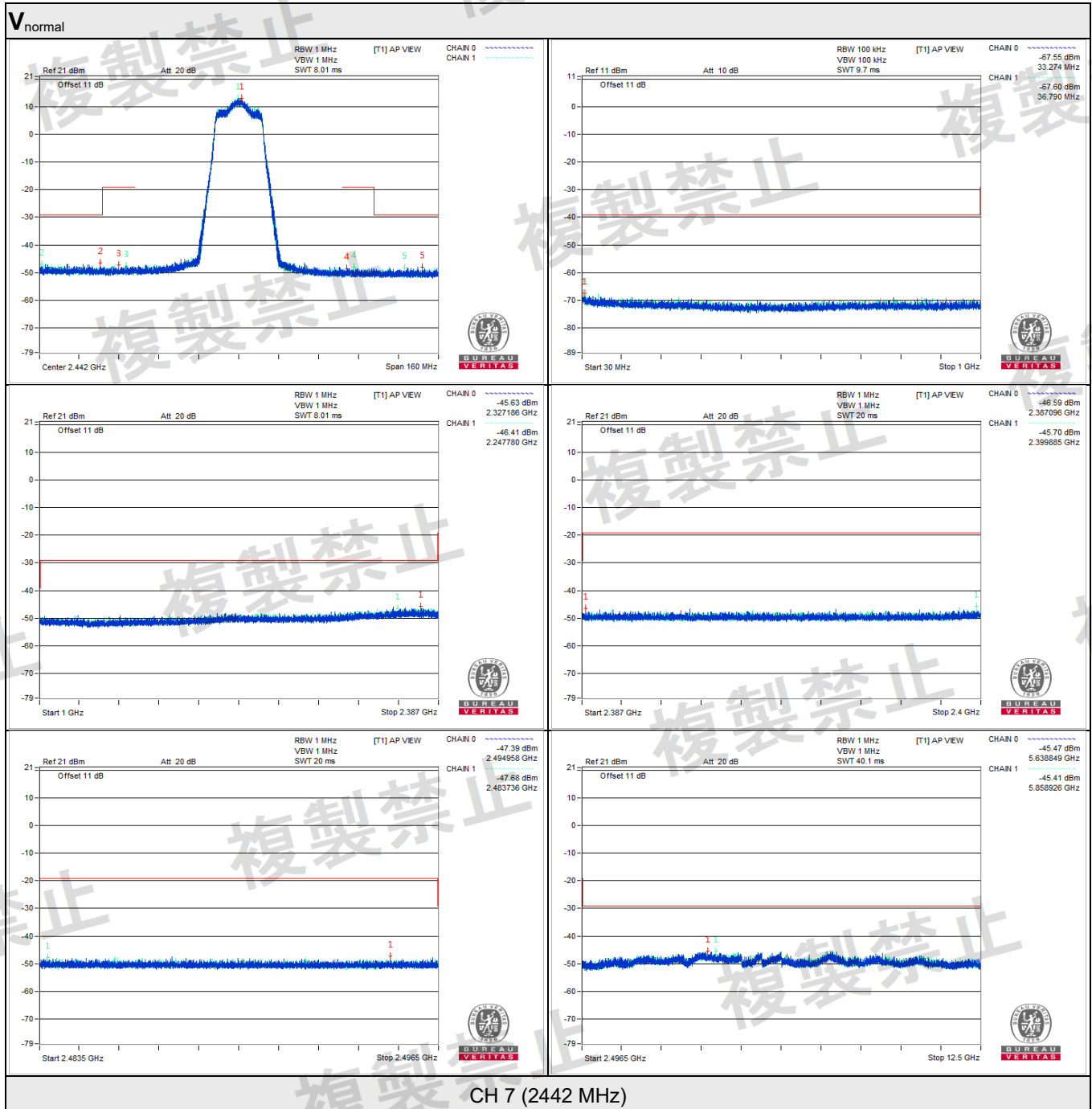
Measuring Mode *Zero Span

- Set the spectrum analyzer as below and it takes in a value of all data point.
- Regarding the all data value, it transforms the "dBm" value into "uW" value.
- It adds the all values and calculates a grand total. Define a grand total as "P".
- It divides "P" by sample data point (>400) and calculates the mean value.
- It reports the mean value.
- This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)

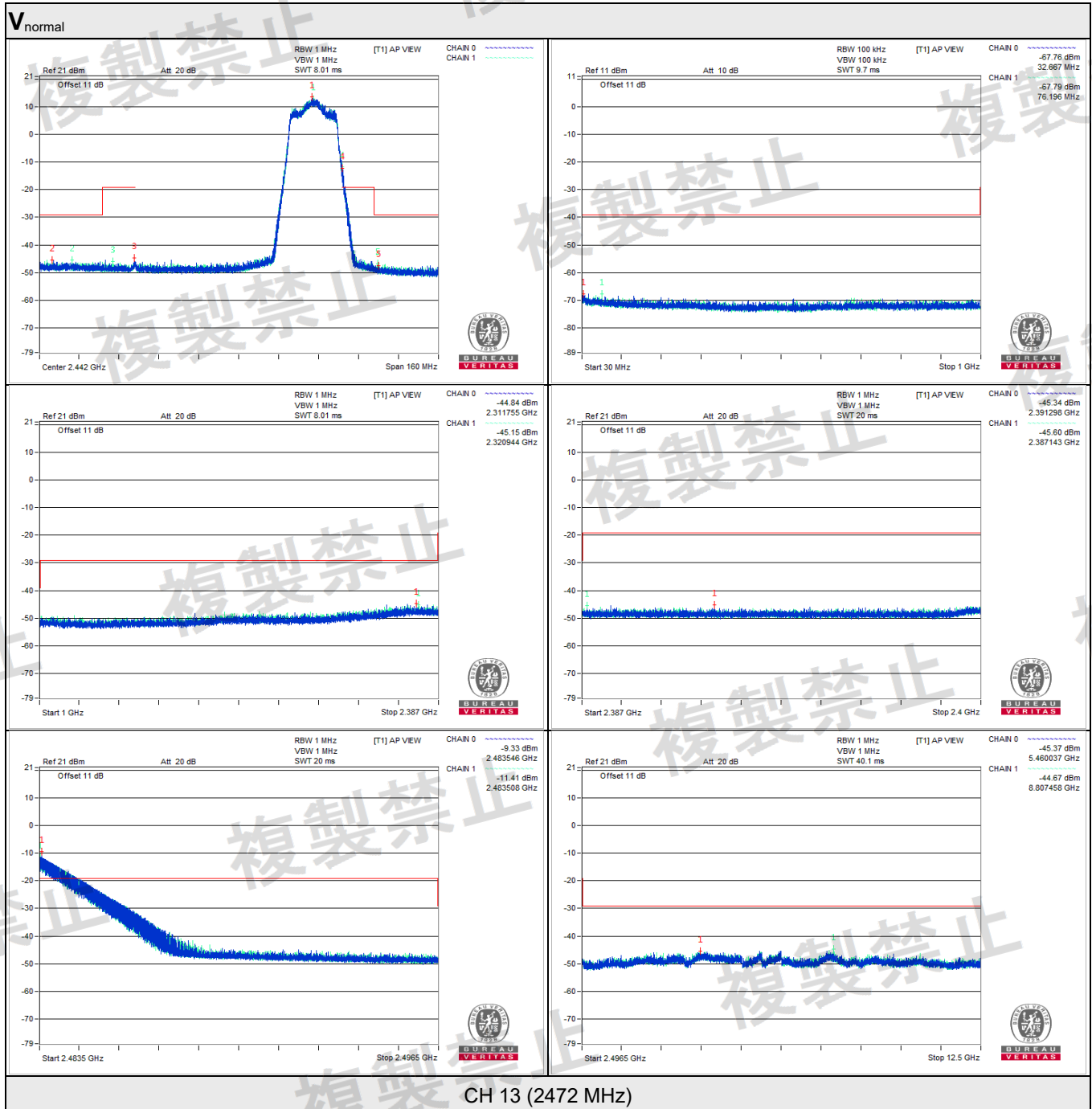


802.11be (EHT20) Graph





CH 7 (2442 MHz)



802.11be (EHT20) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000354 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.050122 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.093698 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.034358 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.064718 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000352 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.054706 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.053830 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.036478 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.057548 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.000334 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.065620 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.058484 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.132562 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.068238 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT40) Chain 0

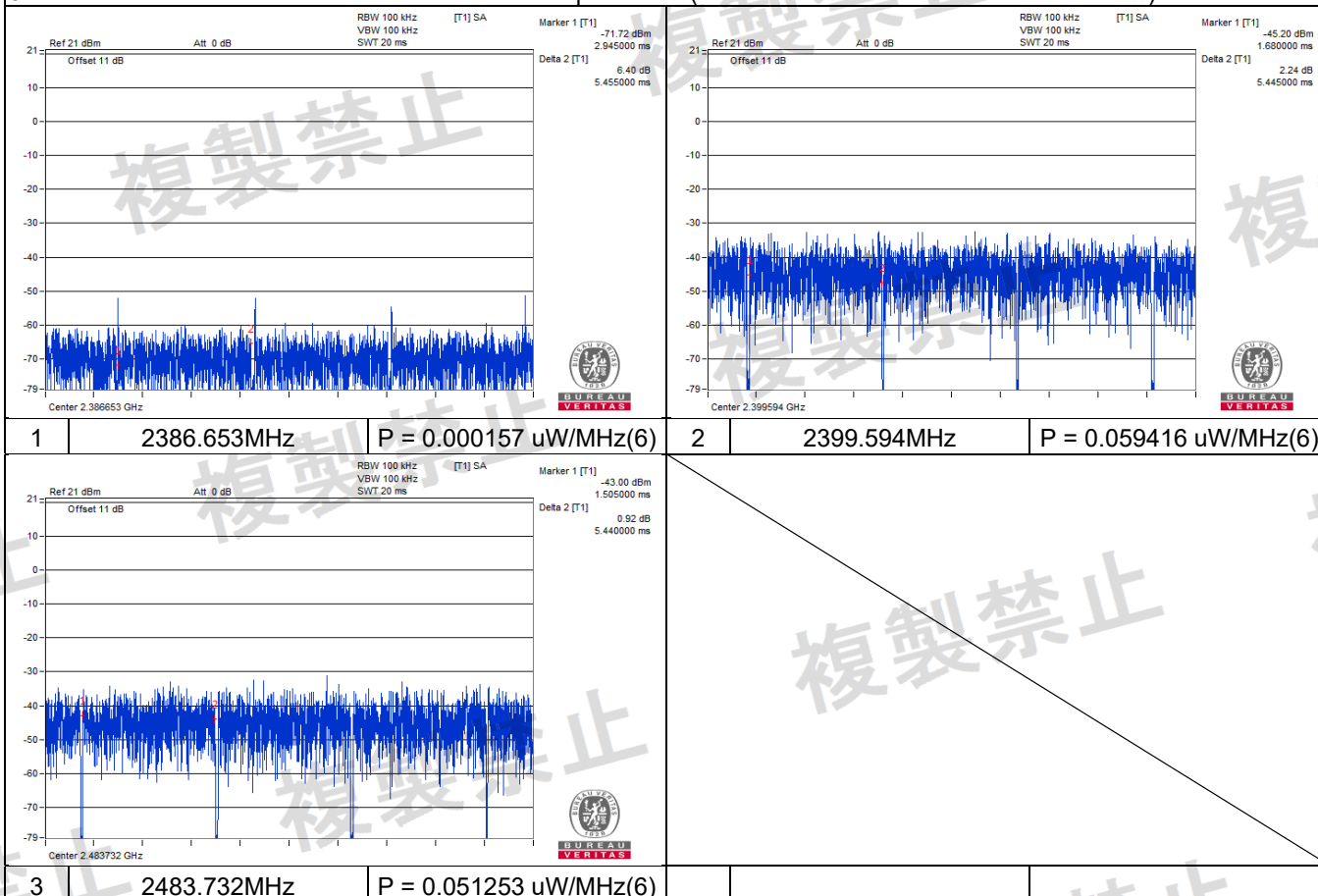
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	32.546	0.000149 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2386.653	0.000157 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.594	0.059416 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2488.256	0.01714 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6986.821	0.03155 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	112.692	0.000153 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2345.043	0.023496 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.534	0.100925 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2486.529	0.032434 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5808.909	0.027102 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	899.969	0.000221 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2309.155	0.033266 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2397.974	0.027416 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.732	0.051253 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	5471.291	0.030761 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT40) Chain 1

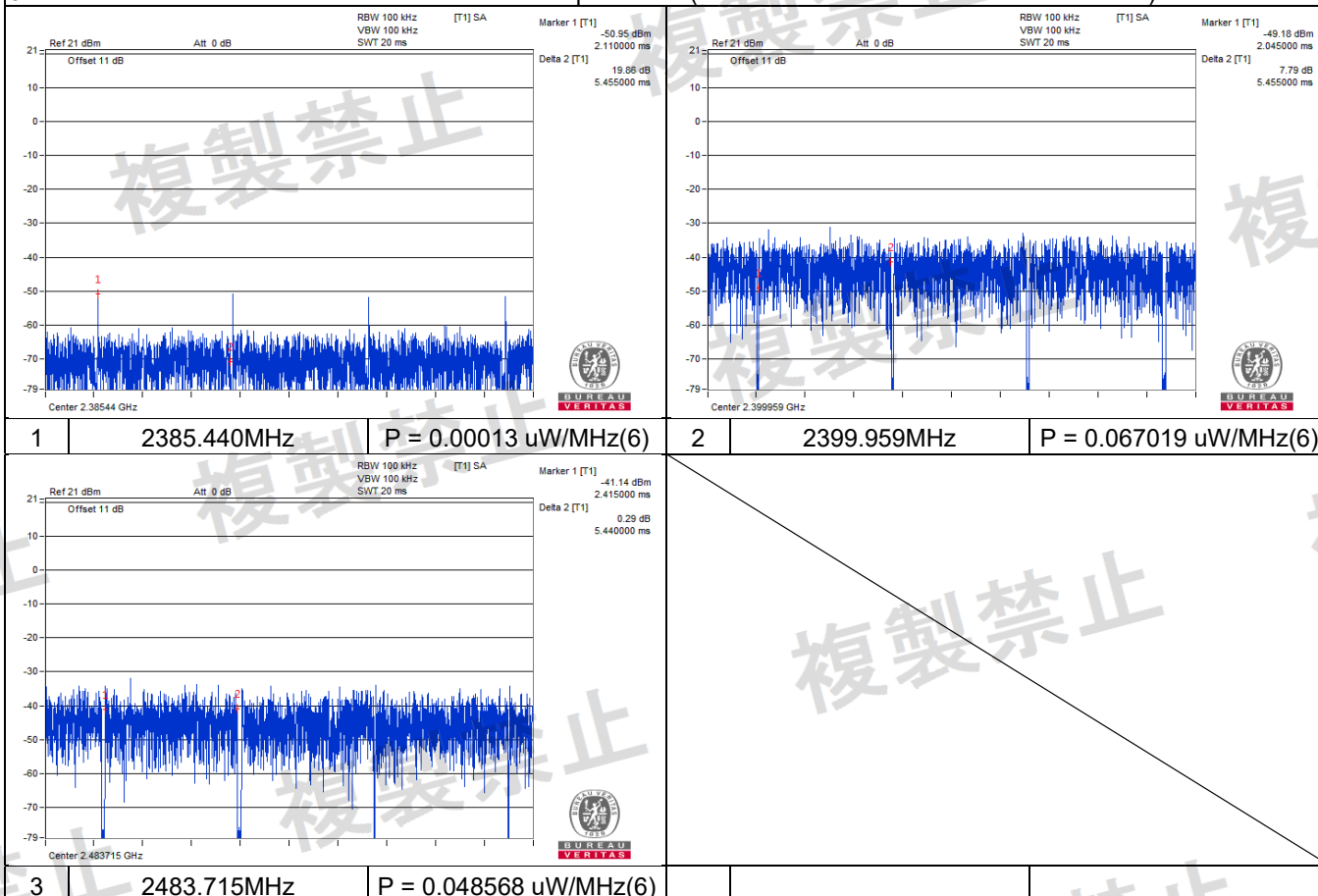
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	897.423	0.00017 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.440	0.00013 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.959	0.067019 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2496.347	0.01888 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6983.070	0.0354 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	30.727	0.000146 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2341.749	0.026669 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.230	0.098401 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.021	0.031477 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	5722.629	0.030903 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	52.310	0.000151 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.250	0.03062 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2394.847	0.030832 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.715	0.048568 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	5557.571	0.032885 uW/MHz	1.25 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

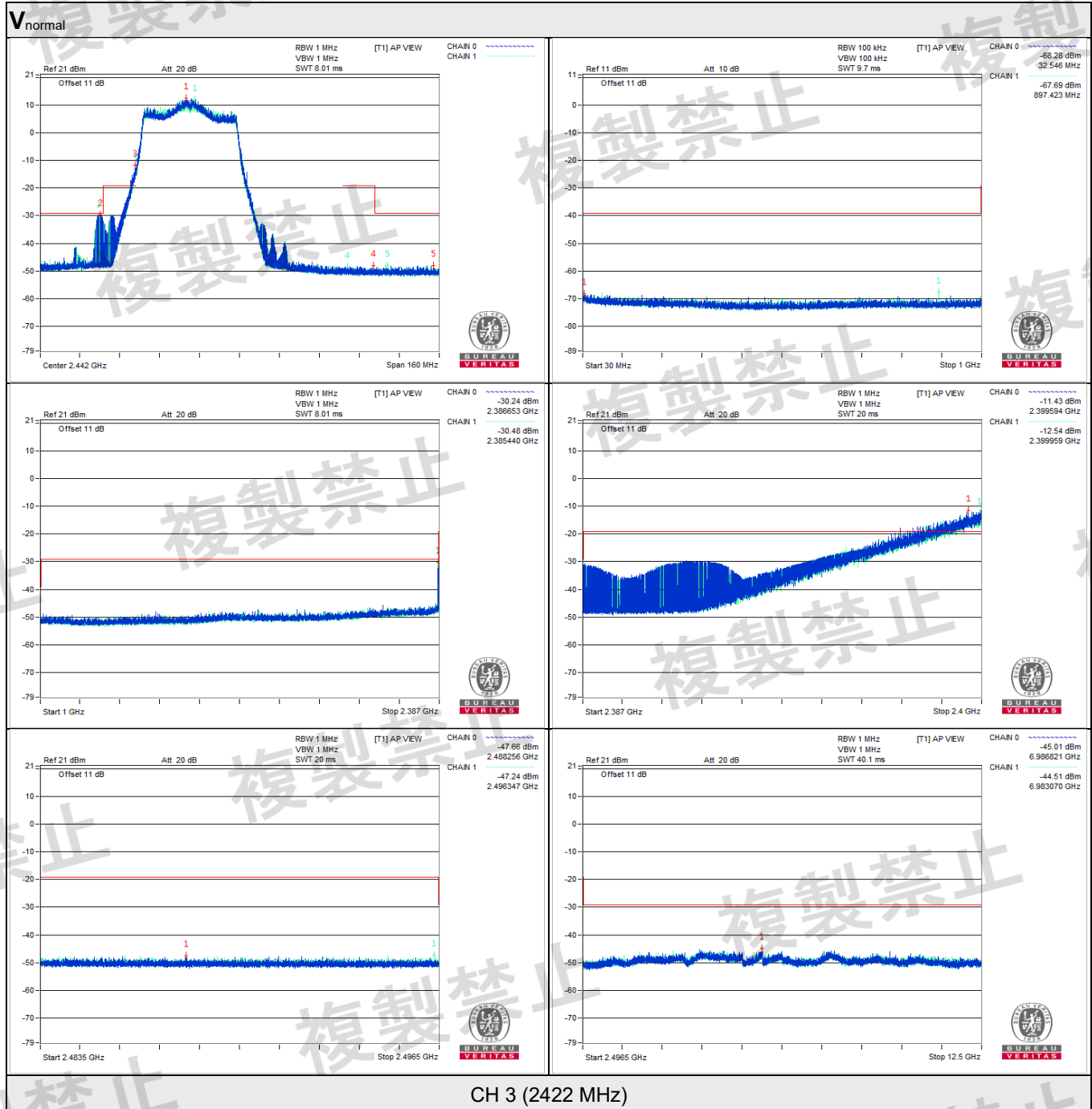
2. (No.): The value was tested under Measuring Mode *Zero Span.

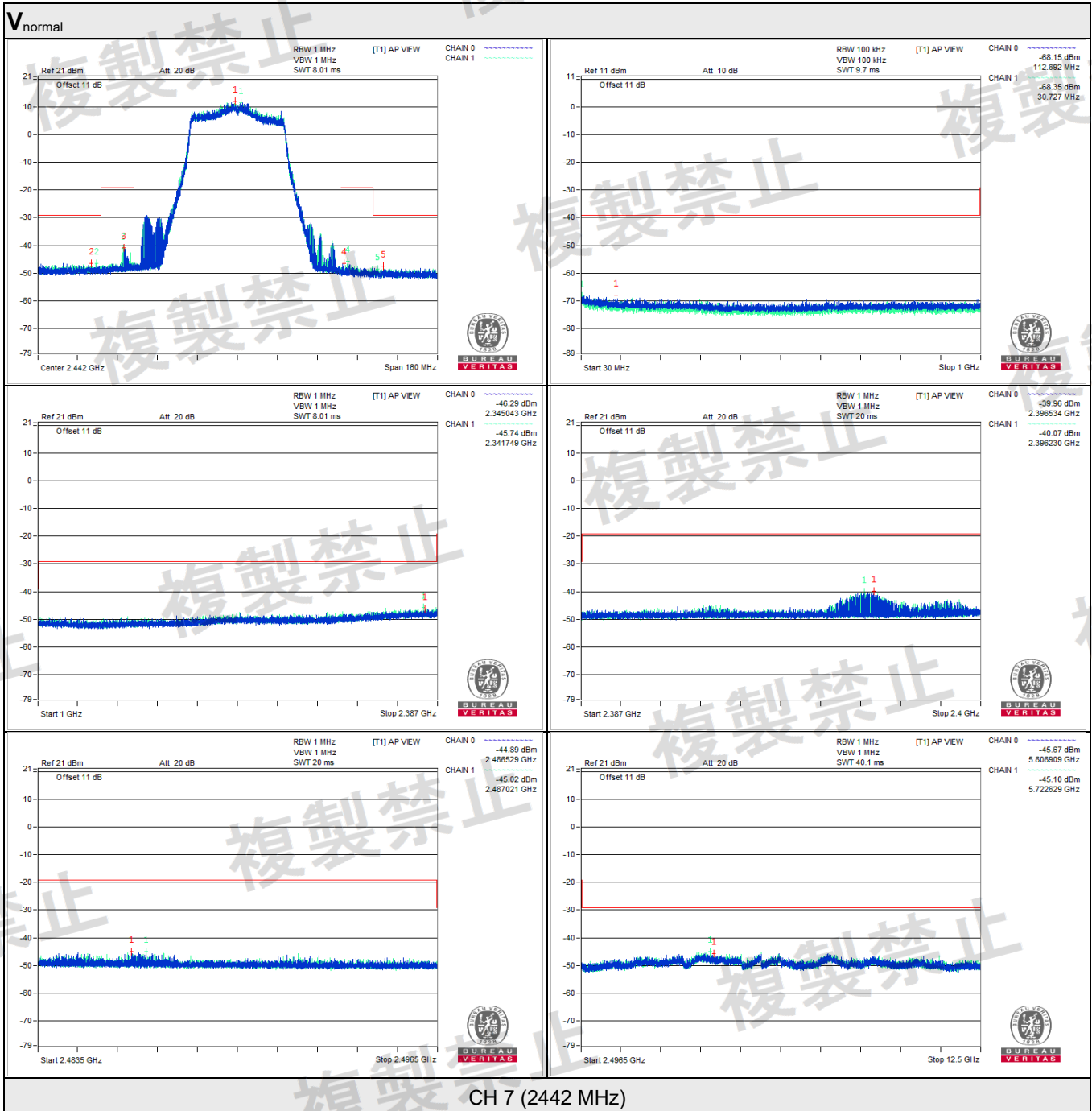
Measuring Mode *Zero Span

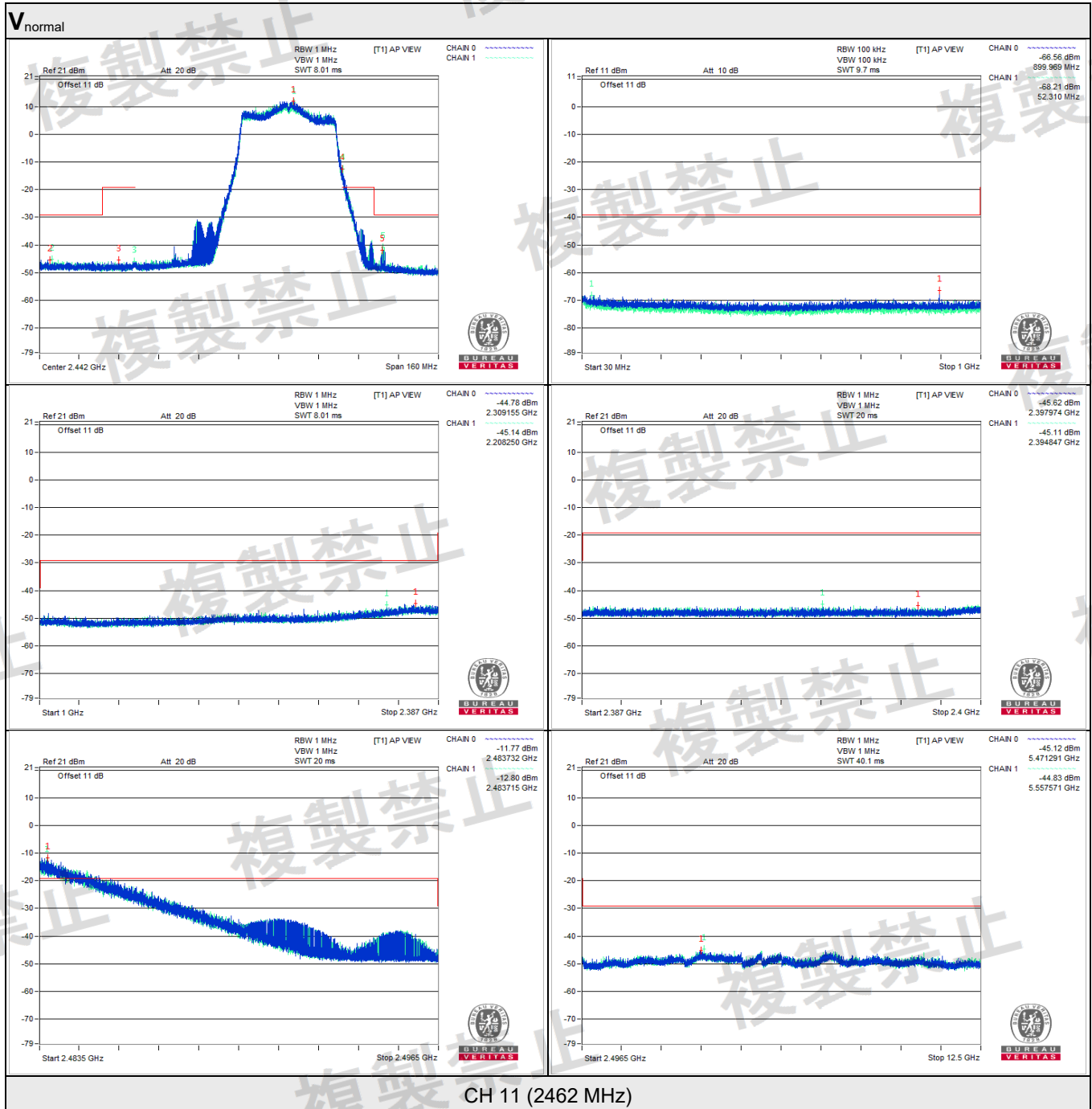
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the "dBm" value into "uW" value.
3. It adds the all values and calculates a grand total. Define a grand total as "P".
4. It divides "P" by sample data point (>400) and calculates the mean value.
5. It reports the mean value.
6. This test value includes the RBW conversion compensation (use a low bandwidth converted to 1 MHz.)



802.11be (EHT40) Graph







802.11be (EHT40) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	0.000340 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.000314 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.134038 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.037760 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.070800 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.000306 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.053338 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.201850 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.064868 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.061806 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V _{normal}	30.0 to 1000.0	0.000442 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.066532 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.061664 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.102506 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.065770 uW/MHz	2.5 uW/MHz	PASS

7.4 Spurious Emissions of Receiver

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

20 MHz System Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	33.638	0.012647	2	PASS
	1000.0 to 12500.0	5621.562	0.250035	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	34.244	0.01574	2	PASS
	1000.0 to 12500.0	6331.687	0.229615	10	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	34.729	0.015346	2	PASS
	1000.0 to 12500.0	7496.062	0.251189	10	PASS

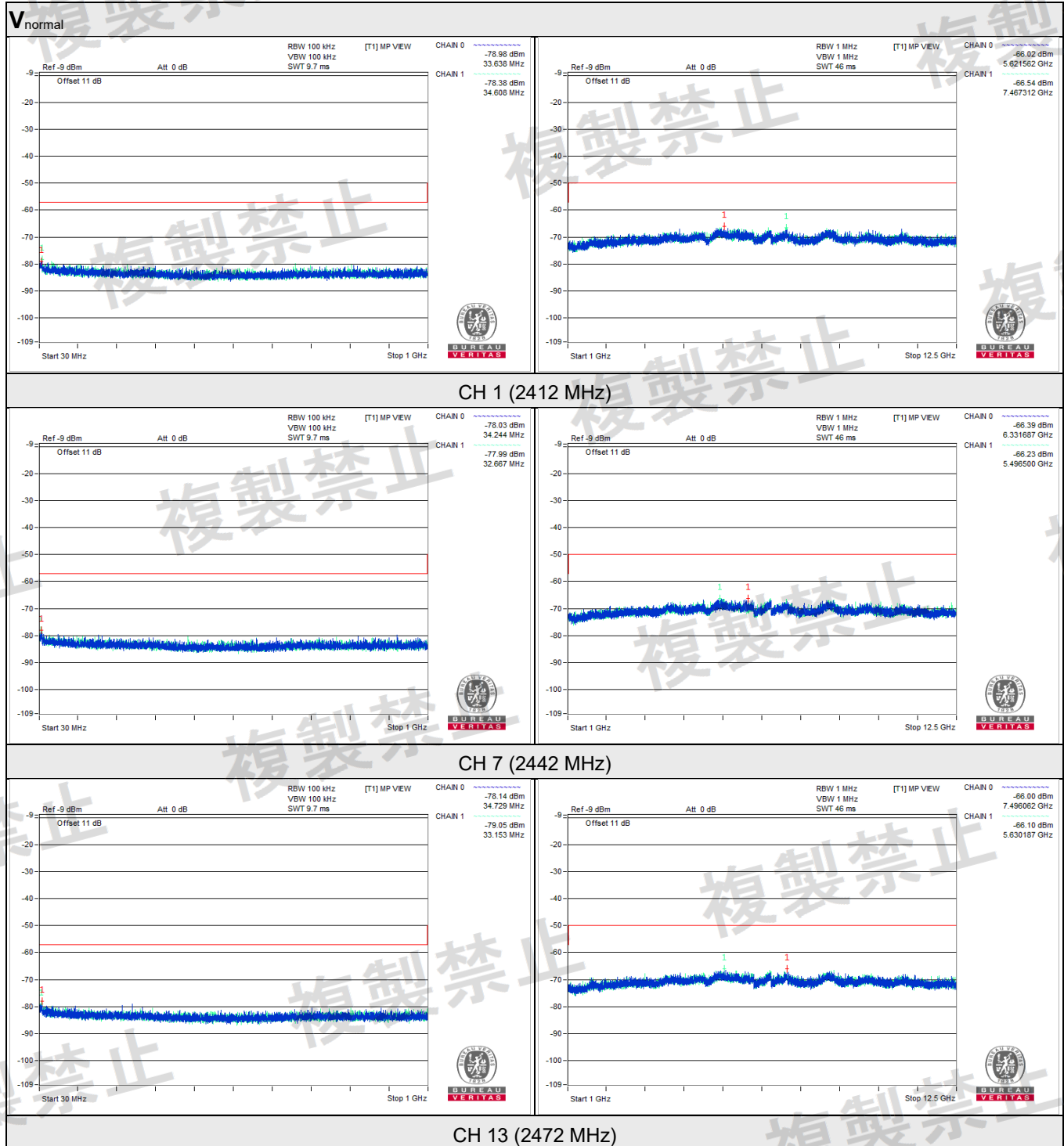
NOTE: 1. The spectrum plots are attached on the following pages.

20 MHz System Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	34.608	0.014521	2	PASS
	1000.0 to 12500.0	7467.312	0.22182	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	32.667	0.015885	2	PASS
	1000.0 to 12500.0	5496.500	0.238232	10	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	33.153	0.012445	2	PASS
	1000.0 to 12500.0	5630.187	0.245471	10	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

20 MHz System Graph



20 MHz System Sum of each Chain

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	0.027168	4	PASS
	1000.0 to 12500.0	0.471855	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.031625	4	PASS
	1000.0 to 12500.0	0.467847	20	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.027791	4	PASS
	1000.0 to 12500.0	0.496660	20	PASS

40 MHz System Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	33.516	0.013428	2	PASS
	1000.0 to 12500.0	8653.250	0.248886	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	33.153	0.013183	2	PASS
	1000.0 to 12500.0	5523.812	0.273527	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	33.516	0.013428	2	PASS
	1000.0 to 12500.0	7007.312	0.246037	10	PASS

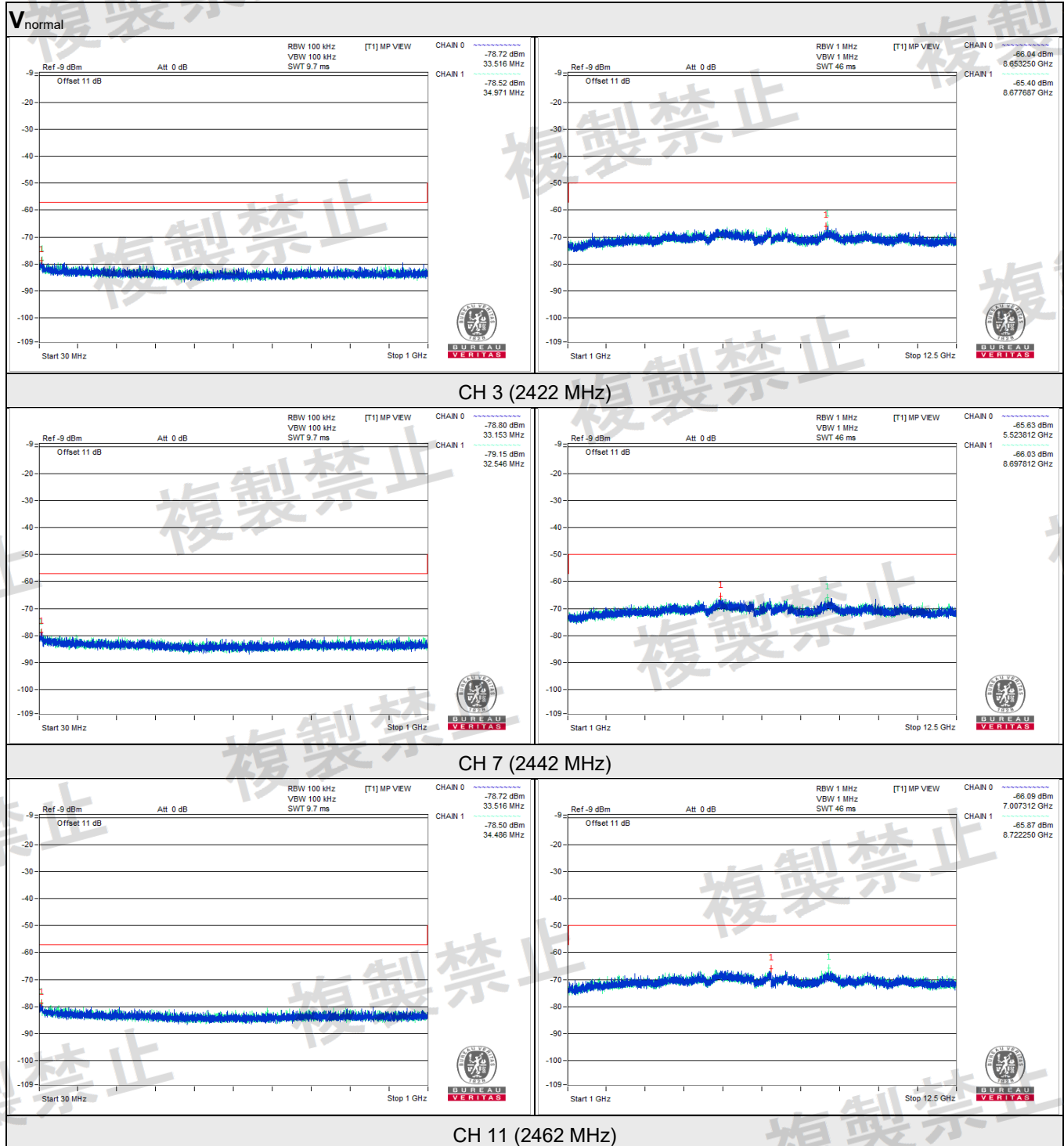
NOTE: 1. The spectrum plots are attached on the following pages.

40 MHz System Chain 1

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	34.971	0.01406	2	PASS
	1000.0 to 12500.0	8677.687	0.288403	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	32.546	0.012162	2	PASS
	1000.0 to 12500.0	8697.812	0.249459	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	34.486	0.014125	2	PASS
	1000.0 to 12500.0	8722.250	0.258821	10	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

40 MHz System Graph



40 MHz System Sum of each Chain

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	0.027488	4	PASS
	1000.0 to 12500.0	0.537289	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.025345	4	PASS
	1000.0 to 12500.0	0.522986	20	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V _{normal}	30.0 to 1000.0	0.027553	4	PASS
	1000.0 to 12500.0	0.504858	20	PASS

Internal Antenna (Mode B)

20 MHz System Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	32.425	0.015959	2	PASS
	1000.0 to 12500.0	8739.500	0.226986	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	34.971	0.013583	2	PASS
	1000.0 to 12500.0	6949.812	0.241546	10	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	38.730	0.011376	2	PASS
	1000.0 to 12500.0	8601.500	0.252348	10	PASS

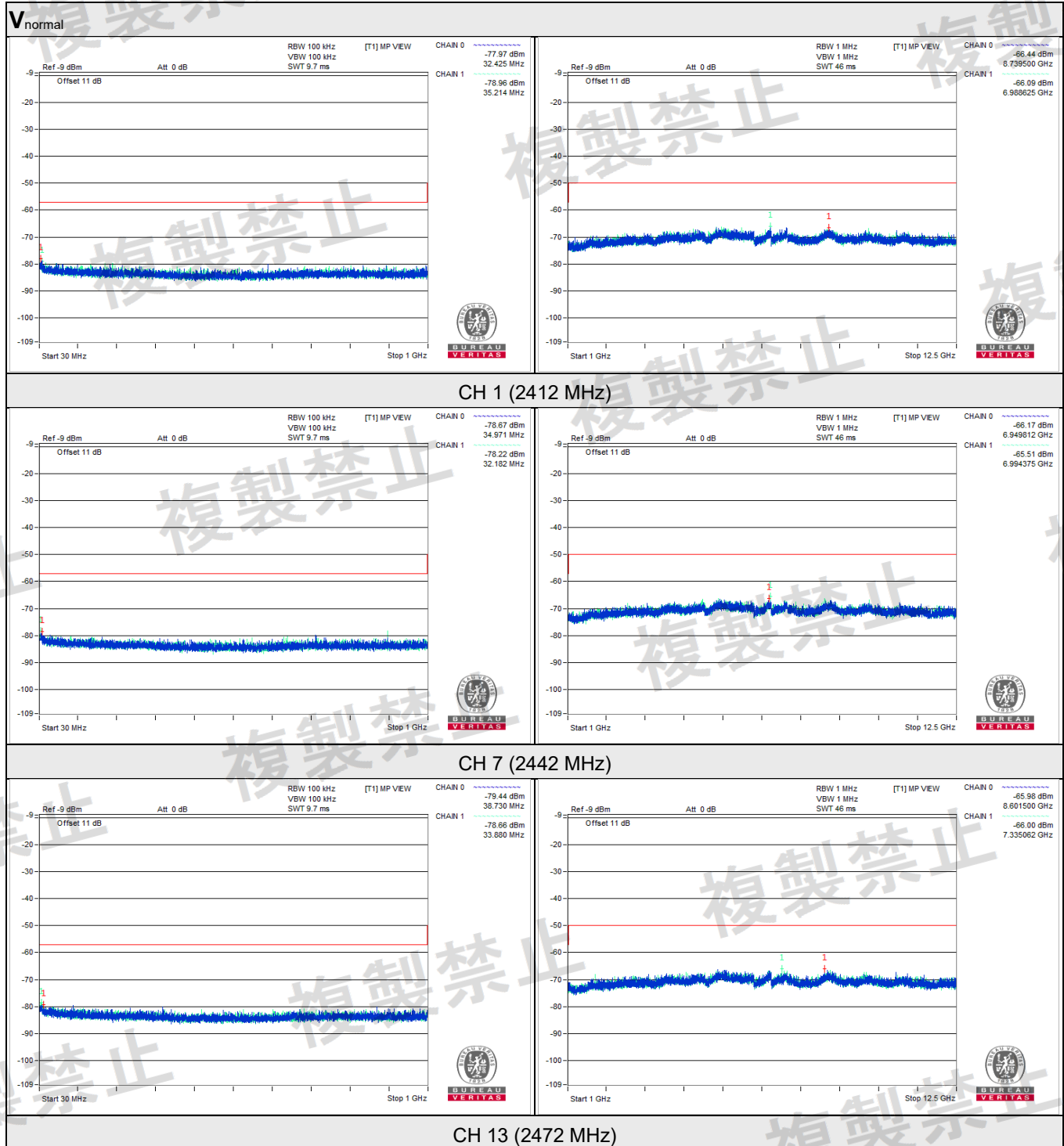
NOTE: 1. The spectrum plots are attached on the following pages.

20 MHz System Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	35.214	0.012706	2	PASS
	1000.0 to 12500.0	6988.625	0.246037	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	32.182	0.015066	2	PASS
	1000.0 to 12500.0	6994.375	0.28119	10	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V _{normal}	30.0 to 1000.0	33.880	0.013614	2	PASS
	1000.0 to 12500.0	7335.062	0.251189	10	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

20 MHz System Graph



20 MHz System Sum of each Chain

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	0.028665	4	PASS
	1000.0 to 12500.0	0.473023	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.028649	4	PASS
	1000.0 to 12500.0	0.522736	20	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V _{normal}	30.0 to 1000.0	0.024990	4	PASS
	1000.0 to 12500.0	0.503537	20	PASS

40 MHz System Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	34.971	0.015849	2	PASS
	1000.0 to 12500.0	5526.687	0.258821	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	61.282	0.011803	2	PASS
	1000.0 to 12500.0	8768.250	0.267917	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	33.031	0.013274	2	PASS
	1000.0 to 12500.0	6988.625	0.250611	10	PASS

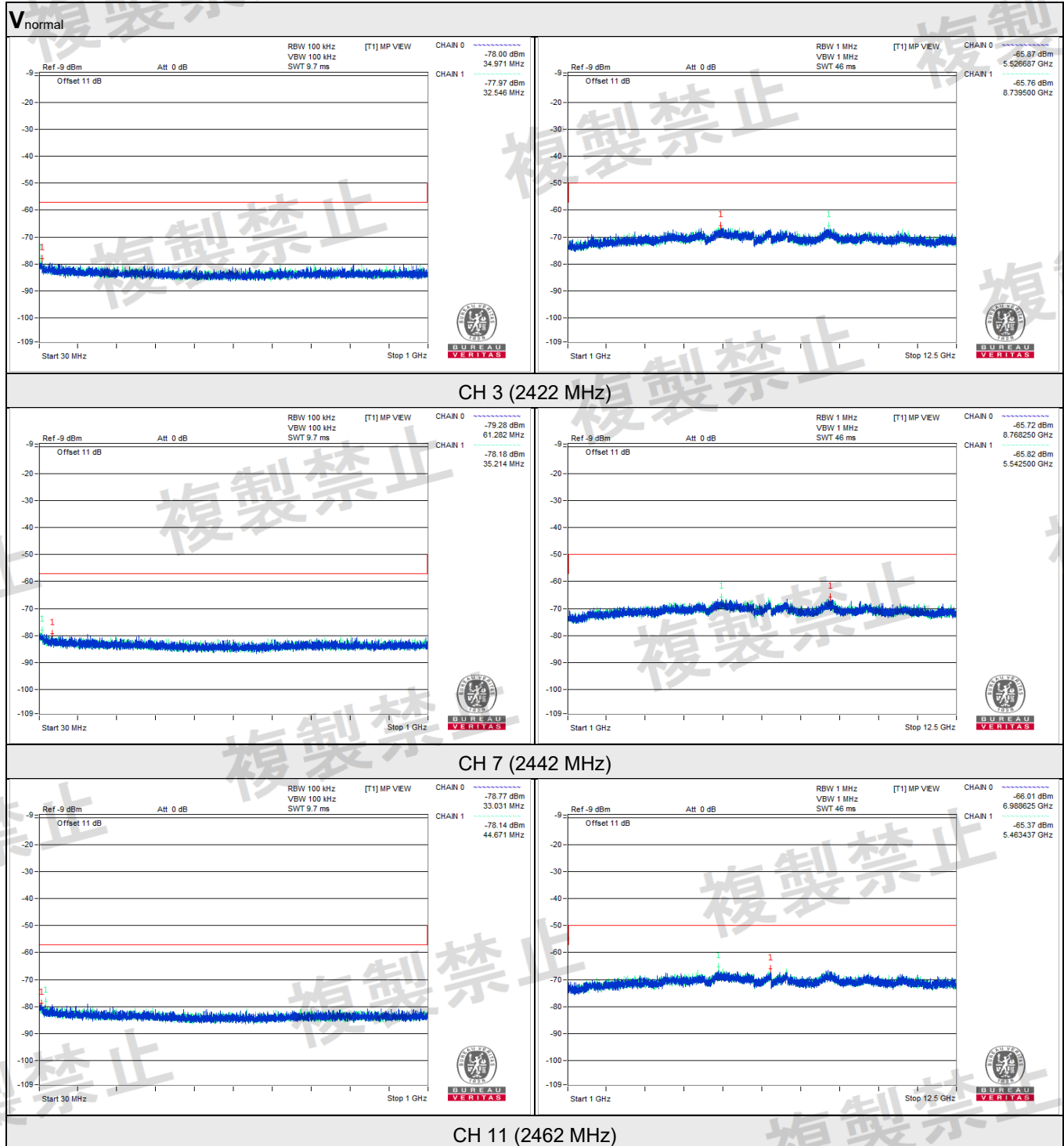
NOTE: 1. The spectrum plots are attached on the following pages.

40 MHz System Chain 1

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	32.546	0.015959	2	PASS
	1000.0 to 12500.0	8739.500	0.265461	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V _{normal}	30.0 to 1000.0	35.214	0.015205	2	PASS
	1000.0 to 12500.0	5542.500	0.261818	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V _{normal}	30.0 to 1000.0	44.671	0.015346	2	PASS
	1000.0 to 12500.0	5463.437	0.290402	10	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

40 MHz System Graph



40 MHz System Sum of each Chain

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	0.031808	4	PASS
	1000.0 to 12500.0	0.524282	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V _{normal}	30.0 to 1000.0	0.027008	4	PASS
	1000.0 to 12500.0	0.529735	20	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V _{normal}	30.0 to 1000.0	0.028620	4	PASS
	1000.0 to 12500.0	0.541013	20	PASS

7.5 Antenna Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

802.11b

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.148	3.214	6.362	15.261
	7	2442	3.200	3.304	6.504	15.602
	13	2472	3.192	3.282	6.474	15.53
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.6	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.92	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11g

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.214	3.282	6.496	15.583
	7	2442	3.274	3.335	6.609	15.854
	13	2472	3.185	3.304	6.489	15.566
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.7	-
Maximum Tolerance of Antenna Power (mW/MHz):					8.04	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

VHT20

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.120	3.214	6.334	15.194
	7	2442	3.163	3.274	6.437	15.441
	13	2472	3.063	3.229	6.292	15.093
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.7	-
Maximum Tolerance of Antenna Power (mW/MHz):					8.04	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

VHT40

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.549	1.622	3.171	7.607
	7	2442	1.538	1.615	3.153	7.564
	11	2462	1.560	1.618	3.178	7.623
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.35	-
Maximum Tolerance of Antenna Power (mW/MHz):					4.02	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE20)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.105	3.207	6.312	15.141
	7	2442	3.156	3.252	6.408	15.372
	13	2472	3.063	3.207	6.27	15.041
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.7	-
Maximum Tolerance of Antenna Power (mW/MHz):					8.04	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE40)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.553	1.615	3.168	7.6
	7	2442	1.531	1.607	3.138	7.528
	11	2462	1.549	1.607	3.156	7.571
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.35	-
Maximum Tolerance of Antenna Power (mW/MHz):					4.02	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11be (EHT20)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.134	3.237	6.371	15.283
	7	2442	3.185	3.304	6.489	15.566
	13	2472	3.091	3.252	6.343	15.216
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.7	-
Maximum Tolerance of Antenna Power (mW/MHz):					8.04	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11be (EHT40)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.560	1.637	3.197	7.669
	7	2442	1.549	1.626	3.175	7.616
	11	2462	1.571	1.630	3.201	7.679
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.35	-
Maximum Tolerance of Antenna Power (mW/MHz):					4.02	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 3.8 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

Internal Antenna (Mode B)

802.11b

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	1.203	1.222	2.425	16.096
	7	2442	1.200	1.222	2.422	16.076
	13	2472	1.197	1.228	2.425	16.096
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					2.5	-
Maximum Tolerance of Antenna Power (mW/MHz):					3	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11g

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	1.203	1.222	2.425	16.096
	7	2442	1.200	1.228	2.428	16.116
	13	2472	1.225	1.200	2.425	16.096
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					2.5	-
Maximum Tolerance of Antenna Power (mW/MHz):					3	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

VHT20

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	1.146	1.189	2.335	15.498
	7	2442	1.162	1.192	2.354	15.625
	13	2472	1.181	1.231	2.412	16.009
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					2.5	-
Maximum Tolerance of Antenna Power (mW/MHz):					3	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

VHT40

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	0.577	0.592	1.169	7.759
	7	2442	0.578	0.596	1.174	7.792
	11	2462	0.574	0.590	1.164	7.726
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					1.2	-
Maximum Tolerance of Antenna Power (mW/MHz):					1.44	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE20)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	1.138	1.186	2.324	15.425
	7	2442	1.159	1.189	2.348	15.585
	13	2472	1.181	1.228	2.409	15.99
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					2.5	-
Maximum Tolerance of Antenna Power (mW/MHz):					3	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE40)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	0.578	0.588	1.166	7.739
	7	2442	0.574	0.593	1.167	7.746
	11	2462	0.572	0.586	1.158	7.686
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					1.2	-
Maximum Tolerance of Antenna Power (mW/MHz):					1.44	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11be (EHT20)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	1.154	1.200	2.354	15.625
	7	2442	1.172	1.203	2.375	15.764
	13	2472	1.192	1.242	2.434	16.156
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					2.5	-
Maximum Tolerance of Antenna Power (mW/MHz):					3	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11be (EHT40)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	0.582	0.596	1.178	7.819
	7	2442	0.584	0.601	1.185	7.865
	11	2462	0.578	0.594	1.172	7.779
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					1.2	-
Maximum Tolerance of Antenna Power (mW/MHz):					1.44	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 8.22 dBi.
2. The radiated RF output power density is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

7.6 Number of Carriers within 1 MHz Bandwidth in OFDM

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

About OFDM Technical, one OFDM Channel will have 52 sub-carriers. At present, we observe this product via the spectrum, and we know that there are 3 carriers in 1 MHz bandwidth in OFDM.

Internal Antenna (Mode B)

About OFDM Technical, one OFDM Channel will have 52 sub-carriers. At present, we observe this product via the spectrum, and we know that there are 3 carriers in 1 MHz bandwidth in OFDM.

7.7 Interference Prevention Function

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

Link Mode	Test Result
WiFi 2.4G	Pass

Internal Antenna (Mode B)

Link Mode	Test Result
WiFi 2.4G	Pass

7.8 Carrier Sense Capability

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin
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External Antenna (Mode A)

40 MHz System: 802.11be (EHT40)

Frequency (MHz)	Pcs (dBm)	C.F(dB)	S.G level	Test Result
2422	-41.12	10.22	-30.90	Pass
2442	-41.19	10.23	-30.96	Pass
2462	-41.27	10.24	-31.03	Pass

Note:

Pcs (dBm) = 22.79 + Gr - 20log(F).

Gr: Antenna gain (3.77dBi).

F: Transmission frequency (MHz).

Internal Antenna (Mode B)

40 MHz System: 802.11be (EHT40)

Frequency (MHz)	Pcs (dBm)	C.F(dB)	S.G level	Test Result
2422	-36.96	10.22	-26.74	Pass
2442	-37.03	10.23	-26.80	Pass
2462	-37.11	10.24	-26.87	Pass

Note:

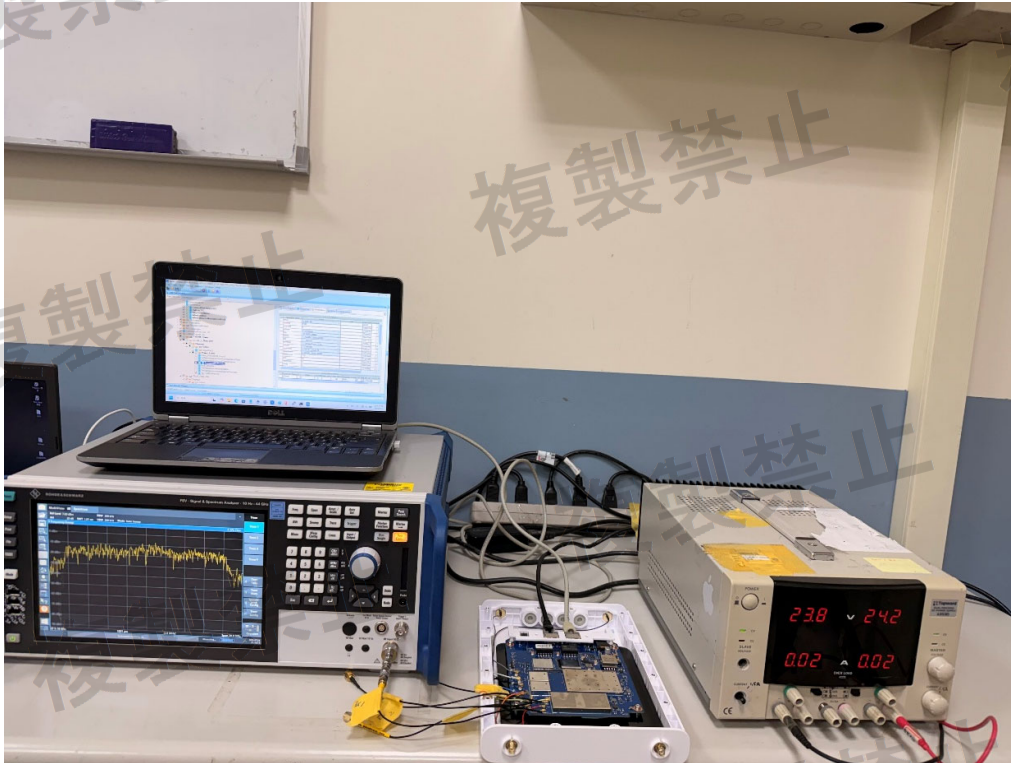
Pcs (dBm) = 22.79 + Gr - 20log(F).

Gr: Antenna gain (7.93dBi).

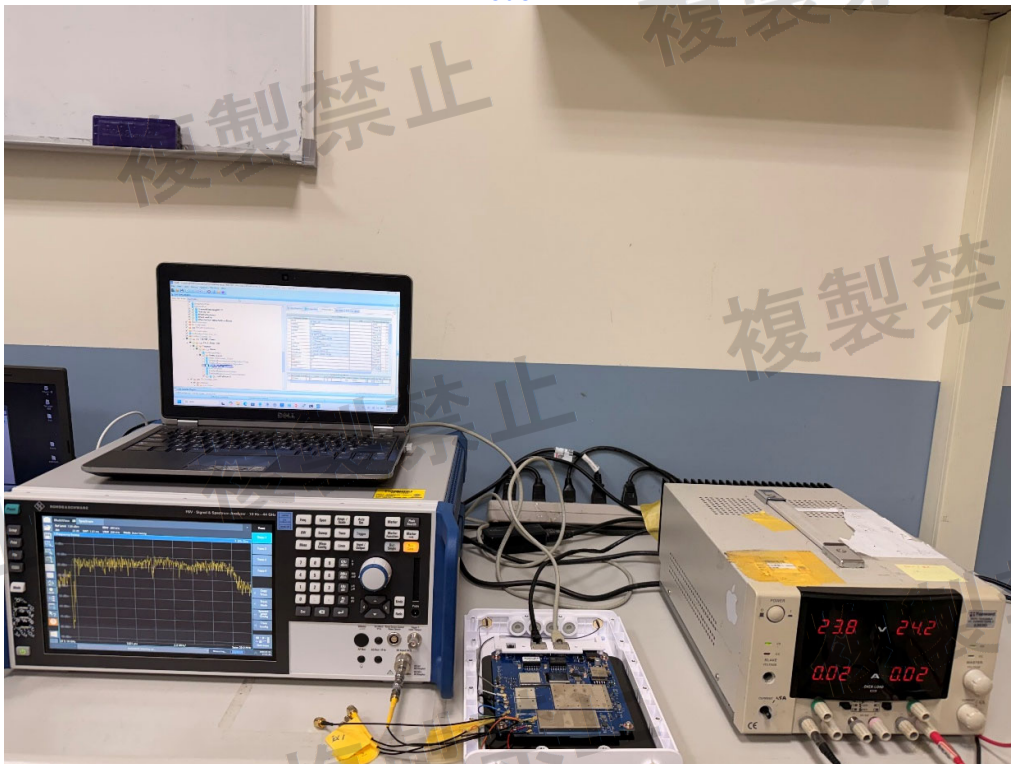
F: Transmission frequency (MHz).

8 Pictures of Test Arrangements

Mode A



Mode B



9 Information of the Testing Laboratories

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

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

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

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