

## Radio Test Report

**Report No.:** RJBCBB-WTW-P20120635

**Test Model:** 2Q8R100

**Received Date:** Dec. 18, 2020

**Test Date:** Jan. 29, 2021

**Issued Date:** Mar. 18, 2021

**Applicant:** HTC Corporation

**Address:** No. 88, Sec. 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan

**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

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City  
33383, Taiwan



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### Release Control Record

Issue No.	Description	Date Issued
RJBCBB-WTW-P20120635	Original Release	Mar. 18, 2021

## 1 Certificate of Conformity

**Product:** Controller

**Brand:** VIVE

**Test Model:** 2Q8R100

**Sample Status:** Identical Prototype

**Applicant:** HTC Corporation

**Test Date:** Jan. 29, 2021

**Standards:** ARIB STD-T66 (V3.7), MIC notice 88 Appendix 43  
Certification Ordinance Article 2-1-19

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.

**Prepared by :** Vera Huang, **Date:** Mar. 18, 2021  
Vera Huang / Specialist

**Approved by :** Dylan Chiou, **Date:** Mar. 18, 2021  
Dylan Chiou / Senior Project Engineer

## 2 Summary of Test Results

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD- T66 Ref.	Report Reference	Parameter	Test Results (Note)
<b>General Provisions</b>				
C	3.2 (4)	4.1	Frequency Tolerance	C
D	3.2 (7)	4.2	Occupied Bandwidth	C
E	3.2 (6)	4.4	Spurious Emissions	C
<b>Transmitting Equipment</b>				
F	3.2 (2)	4.5	Antenna Power	C
--	--	--	SAR	NA
<b>Transmitting Antenna</b>				
--	--	3.5	Type, Configuration, etc. of Transmitting Antenna	C
--	--	3.5	Direction Pattern of Transmitting Antenna	C
<b>Receiving Equipment</b>				
G	3.3 (1)	4.6	Spurious Emissions of Receiver	C
--	--	3.5	Refer to All Articles for Transmitting Antenna	C
<b>Operating Frequency 2400 to 2483.5 MHz</b>				
--	3.7 (1)a	3.4	Radio Frequency / Modulation Section cannot be opened easily	C
--	3.1 (1)	3.1	Communication Method	C
--	3.2 (1)	3.1	Modulation Method	C
--	3.2 (1)	3.1	Spread Spectrum Method	C
--	3.2 (2)	4.5	Antenna Power	C
--	3.6 (2)	4.5	Absolute Gain of Transmitting Antenna	C
--	3.6 (2)	--	Angular Width of Principal Radiation (AWPR)	NA
--	3.2 (10)	--	Number of Carriers within 1 MHz Bandwidth in OFDM	NA
--	3.2 (8)	--	Spreading Bandwidth	NA
--	3.2 (9)	--	Spreading Factor	NA
--	3.2 (11)	--	Frequency Retention Time (FH Employed)	NA
--	3.4.1(1)	4.7	Interference Prevention Function	C
<b>Note:</b> 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty. 2. C = Conform    NC = Not Conform    NT = Not Tested    NA = Not Applicable				

## 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in TR 100 028-1.

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of  $k=2$ .

Parameter	Uncertainty
Occupied Bandwidth	491.896 Hz
Spurious Emissions	2.208 dB
Output Power Density	2.889 dB
Out of Band Radiated Power	3.93 dB
Frequency Tolerance	6805.18 Hz

## 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	Controller
<b>Brand</b>	VIVE
<b>Test Model</b>	2Q8R100
<b>Status of EUT</b>	Identical Prototype
<b>Nominal Voltage</b>	5 Vdc (Adapter)
<b>Modulation Type</b>	GFSK
<b>Transfer Rate</b>	2 Mbps
<b>Operating Frequency</b>	2402 ~ 2480 MHz
<b>Number of Channel</b>	40
<b>Rated RF Output Power / Power Density</b>	Refer to Note
<b>Conducted RF Output Power / Power Density</b>	Refer to Note
<b>Radiated RF Output Power / Power Density</b>	Refer to Note
<b>Antenna Type</b>	Dipole antenna with 2.5 dBi gain

Note:

1. The EUT accessories list refers to EUT Photo.pdf.
2. The power table is as below:

<b>Rated Power (mW)</b>	<b>Total Conducted RF Output Power (mW)</b>	<b>Radiated RF Output Power (mW)</b>
3	2.301	4.092

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

**NOTE 1:** By means of test software provided by manufacture, the power levels during the tests were set according to the following codes:

Modulation type: GFSK	
Channel	Power Setting
0	Default
19	Default
39	Default

### 3.3 Test Conditions

Test Conditions	Voltage (Vdc)
$V_{normal}$	5
$V_{max.}$	5.5
$V_{min.}$	4.5

### 3.4 Assembly

The RF areas for 2Q8R100 are fixed with special T6 screw.



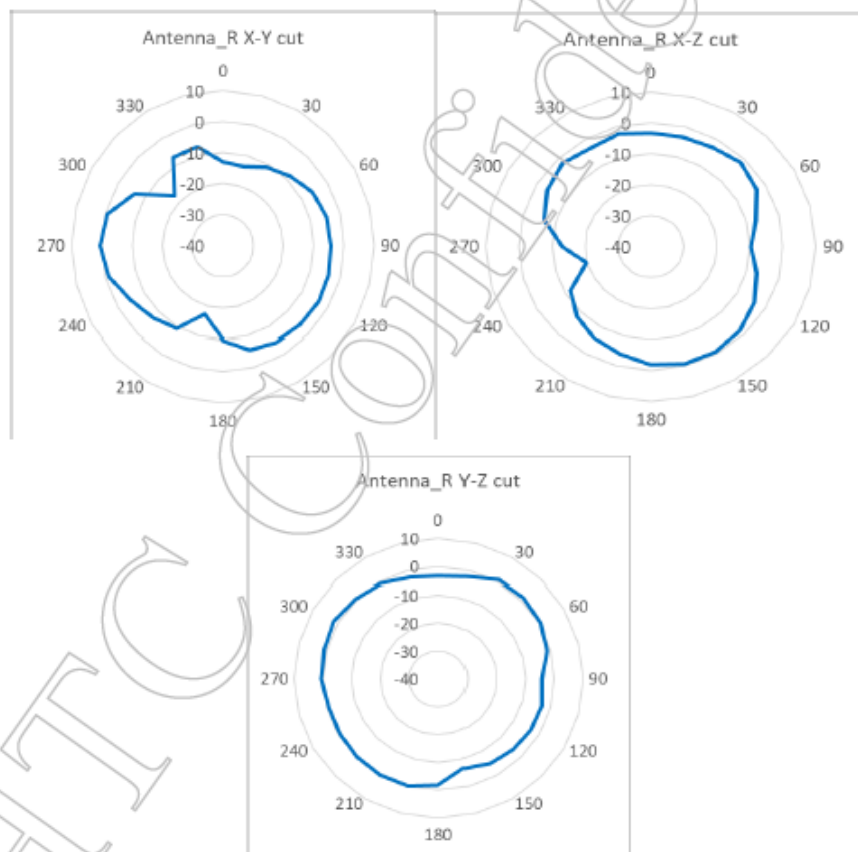
### 3.5 Antenna Specifications

#### 3.5.1 Antenna Gain

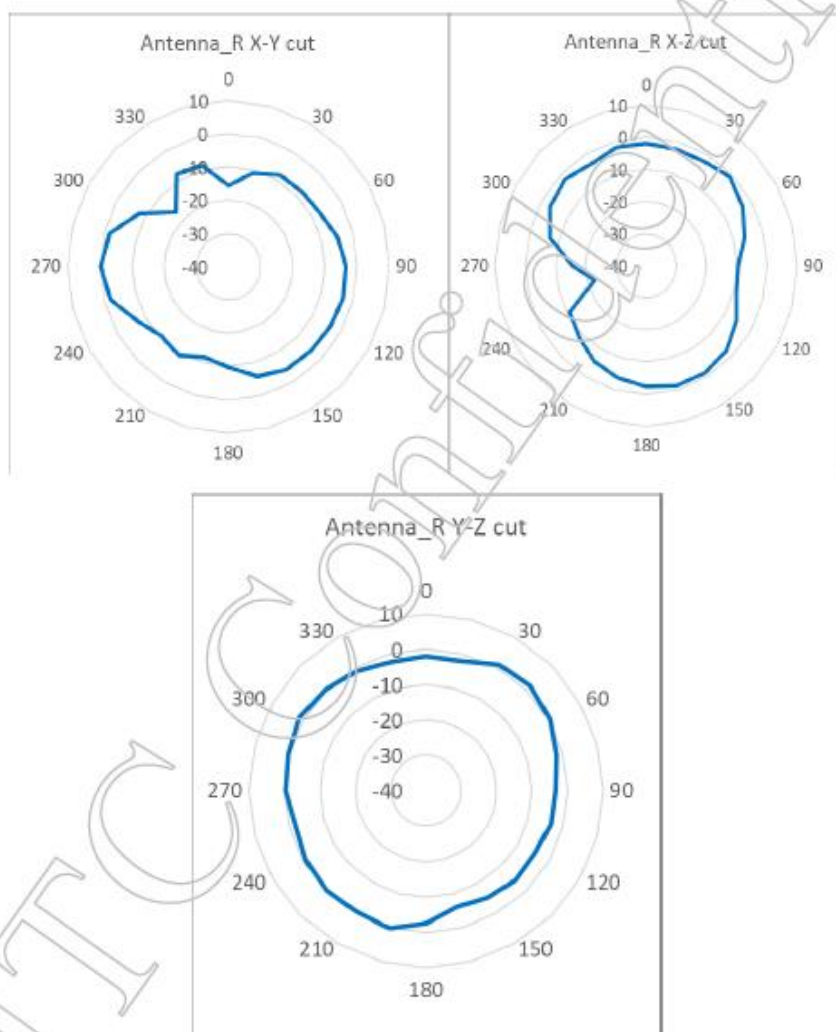
	Antenna type	Gain (dBi)
2.4G SRD	Dipole	2.5

#### 3.5.2 Antenna Pattern

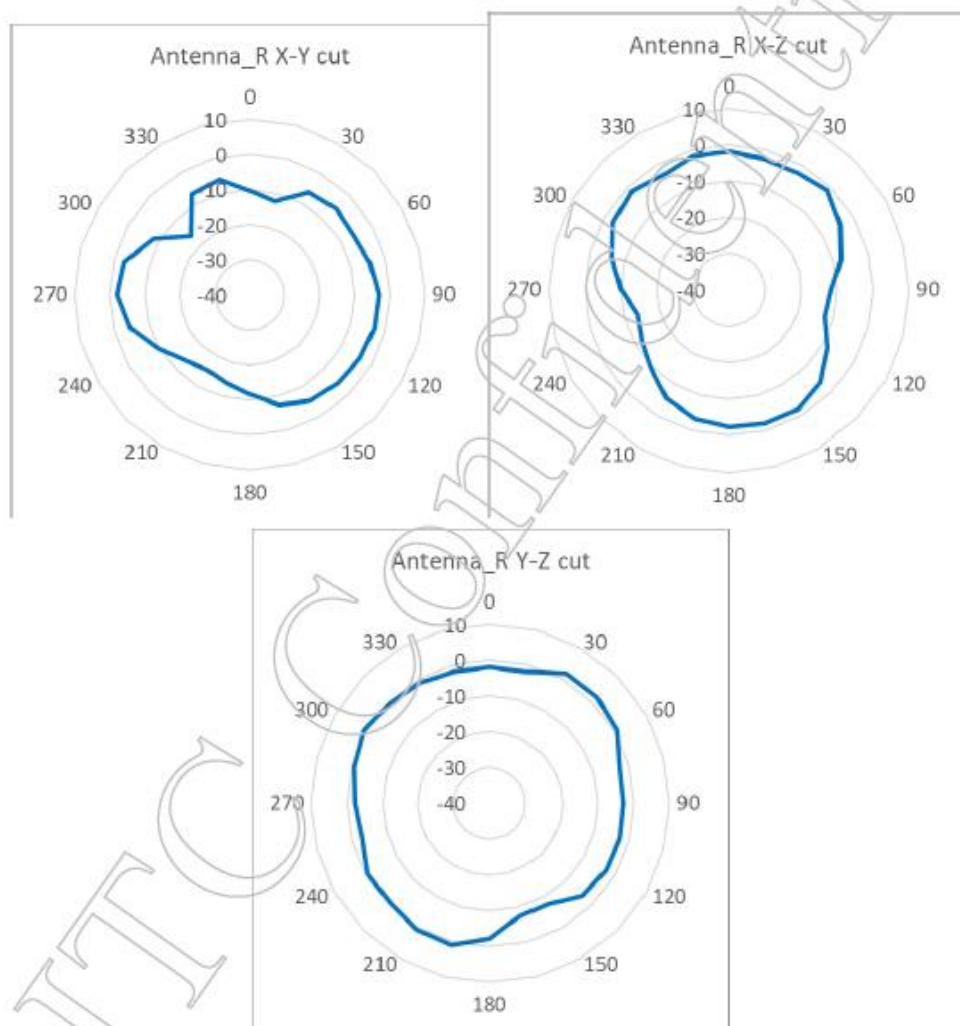
[2402MHz](#)



2440MHz



2480MHz



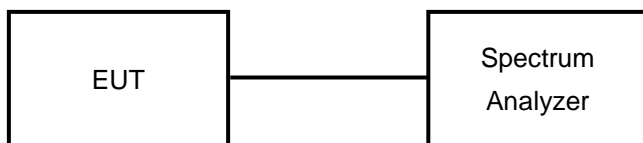
## 4 Test Results

### 4.1 Frequency Tolerance Measurement

#### 4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50 ppm.

#### 4.1.2 Test Setup



#### 4.1.3 Test Results

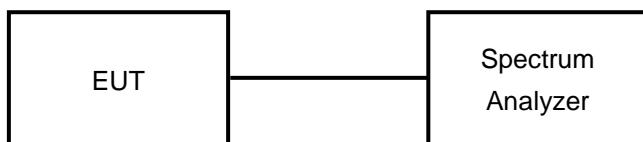
Environmental Conditions		25 deg.C, 60 % RH					
Channel	Frequency (MHz)	Voltage <sub>normal</sub>		Voltage <sub>max.</sub>		Voltage <sub>min.</sub>	
		Carrier Frequency (MHz)	Frequency Tolerance (ppm)	Carrier Frequency (MHz)	Frequency Tolerance (ppm)	Carrier Frequency (MHz)	Frequency Tolerance (ppm)
0	2402	2401.988200	-4.912	2401.988200	-4.912	2401.988200	-4.912
19	2440	2439.987800	-5.000	2439.987600	-5.081	2439.987600	-5.081
39	2480	2479.987400	-5.080	2479.987400	-5.080	2479.987400	-5.080

## 4.2 Occupied Bandwidth Measurement (99 % Power Bandwidth)

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	< 26 MHz

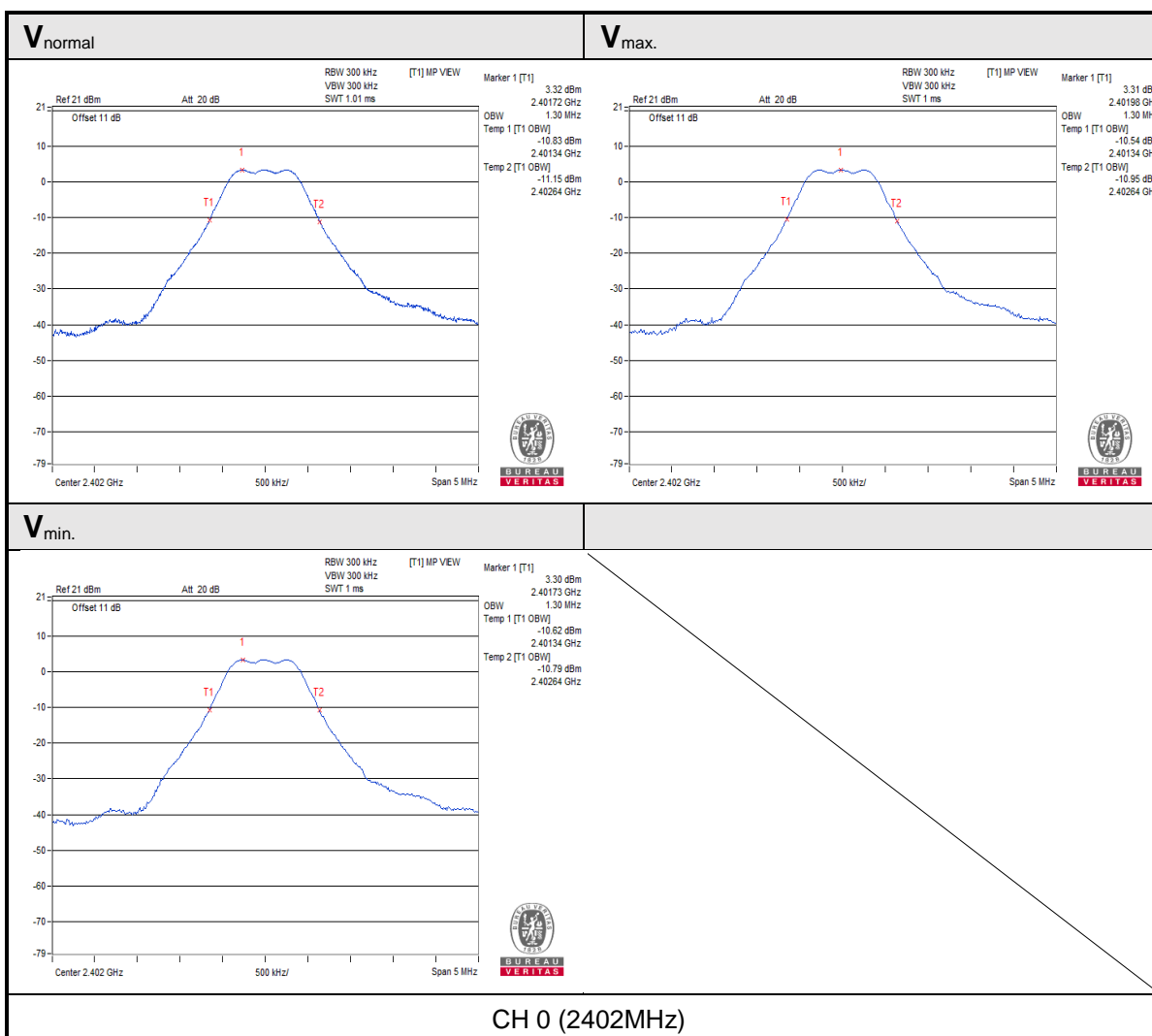
### 4.2.2 Test Setup

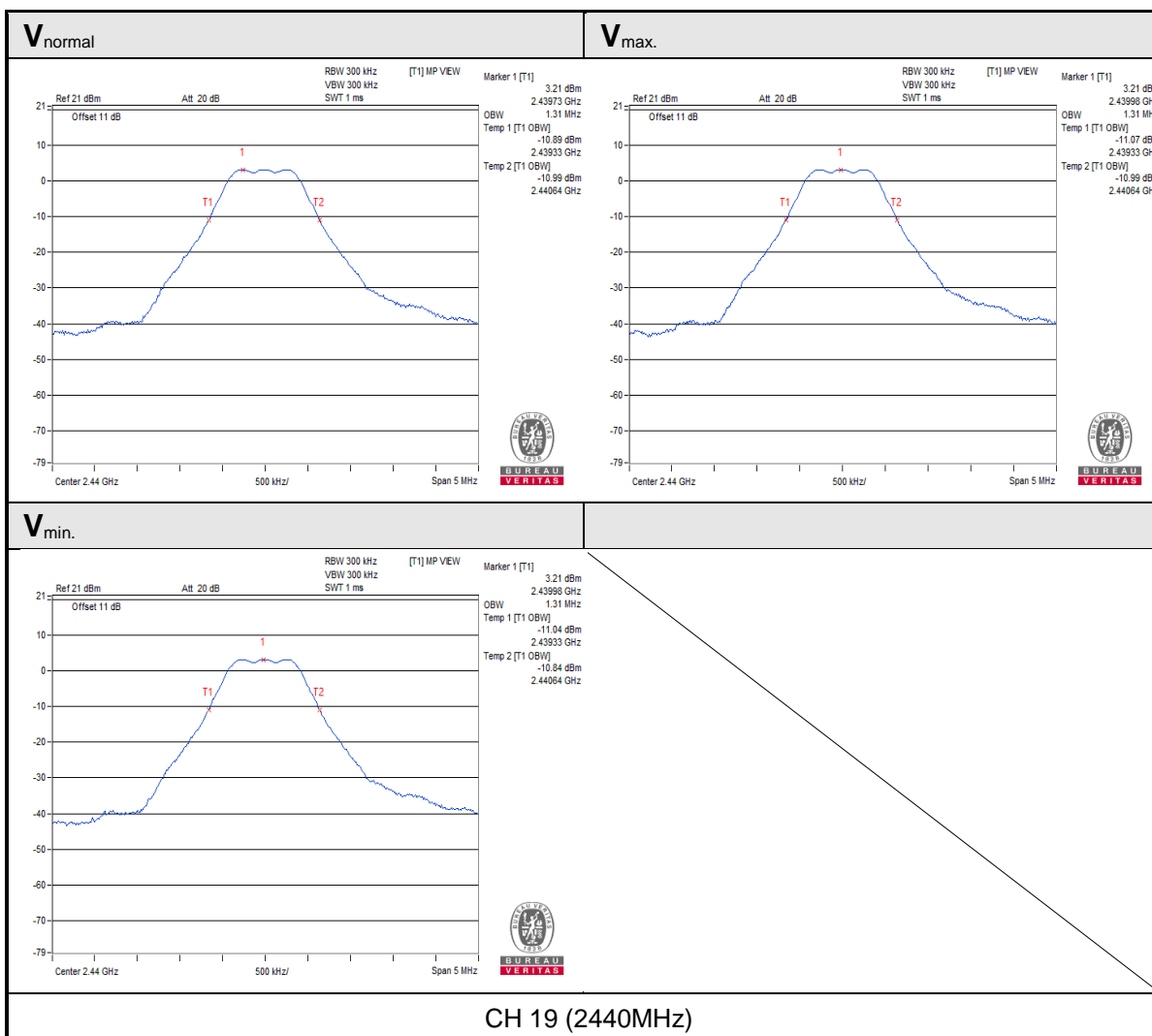


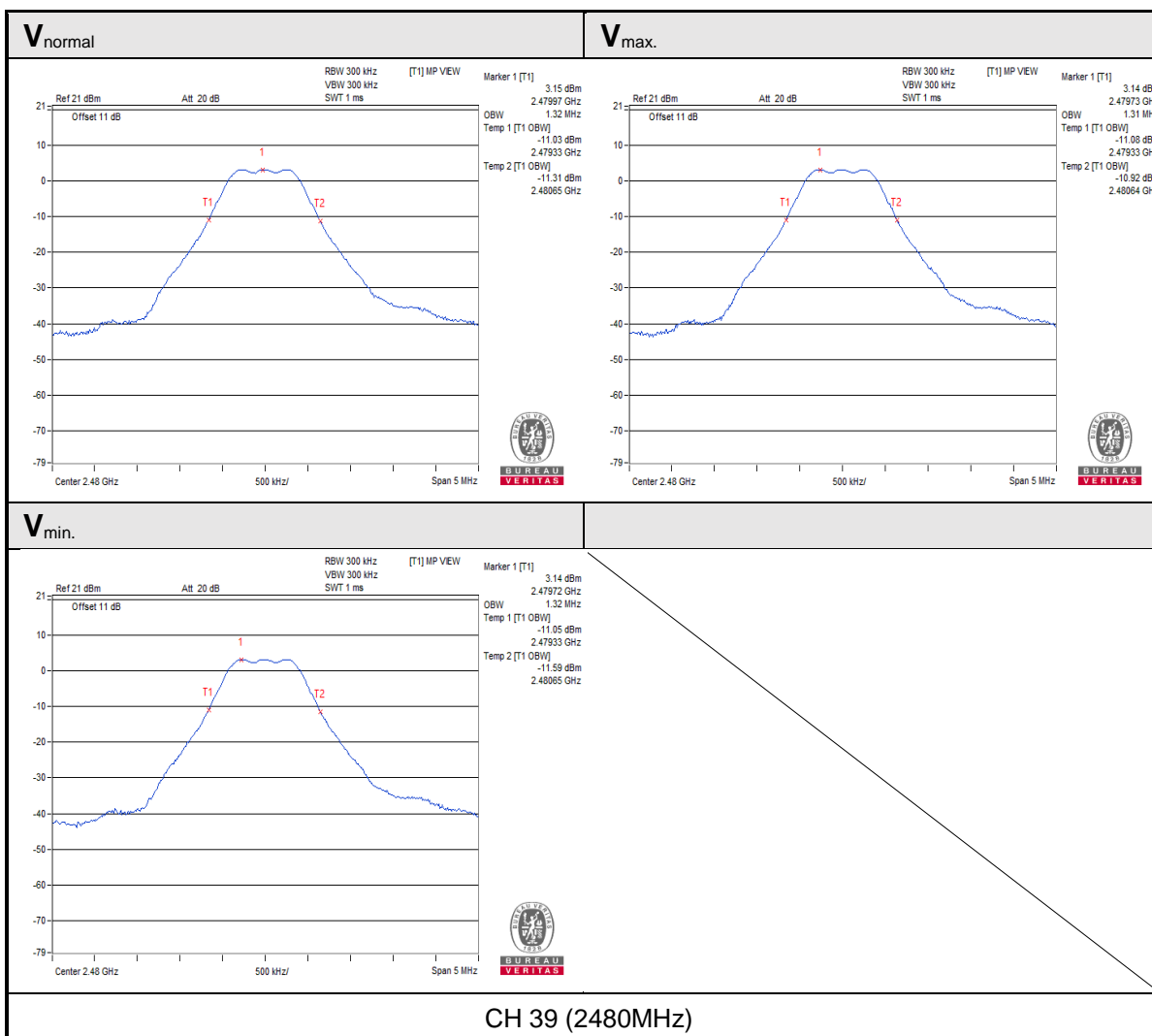
### 4.2.3 Test Results

Environmental Conditions		25 deg.C, 60 % RH		
Channel	Frequency (MHz)	V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
0	2402	1.30	1.30	1.30
19	2440	1.31	1.31	1.31
39	2480	1.32	1.31	1.32

Note: 1. For the test plots please refer to the below pages.







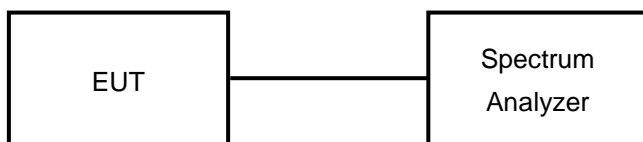


### 4.3 Spreading Bandwidth Measurement (90 % Power Bandwidth)

#### 4.3.1 Limits of Spreading Bandwidth and Spreading Factor Measurement

Item	Limit	Remark
Spreading Bandwidth	$\geq 500$ kHz	
Spreading Factor	$\geq 5$	Operating frequency 2400 to 2483.5 MHz

#### 4.3.2 Test Setup

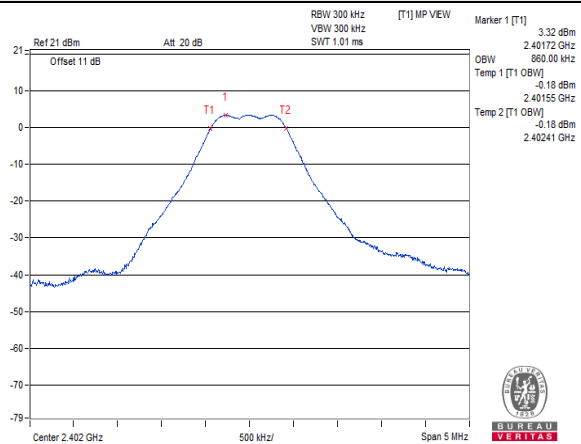


#### 4.3.3 Test Results

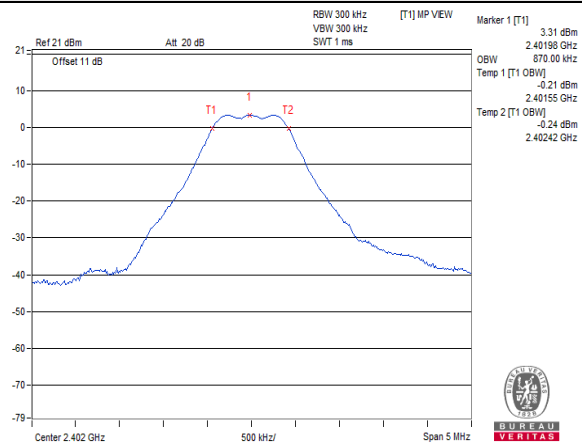
Environmental Conditions		25 deg.C, 60 % RH					
Channel	Frequency (MHz)	V <sub>normal</sub>		V <sub>max.</sub>		V <sub>min.</sub>	
		Occupied Bandwidth (MHz)	Spreading Factor	Occupied Bandwidth (MHz)	Spreading Factor	Occupied Bandwidth (MHz)	Spreading Factor
0	2402	0.86	13.76	0.87	13.92	0.87	13.92
19	2440	0.87	13.92	0.87	13.92	0.87	13.92
39	2480	0.87	13.92	0.87	13.92	0.87	13.92

- Note: 1. For the test plots please refer to the below pages.  
 2. Spreading Factor: 90 % channel power bandwidth / 1.375.

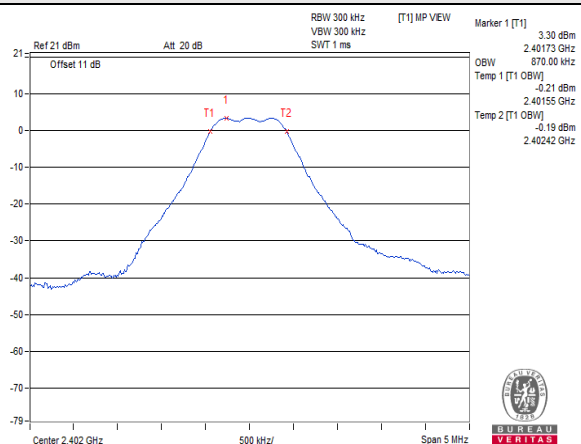
## V<sub>normal</sub>



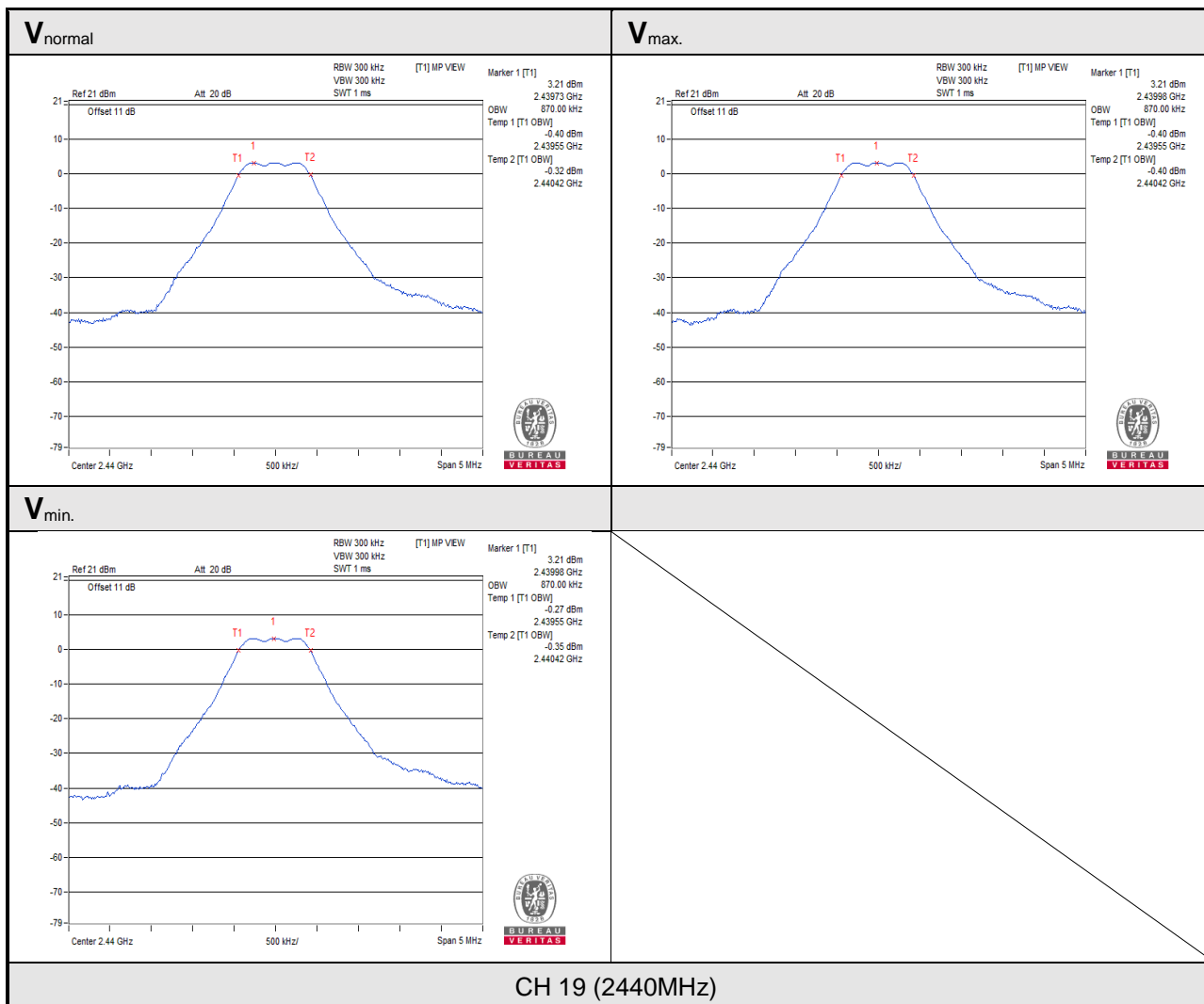
## V<sub>max.</sub>

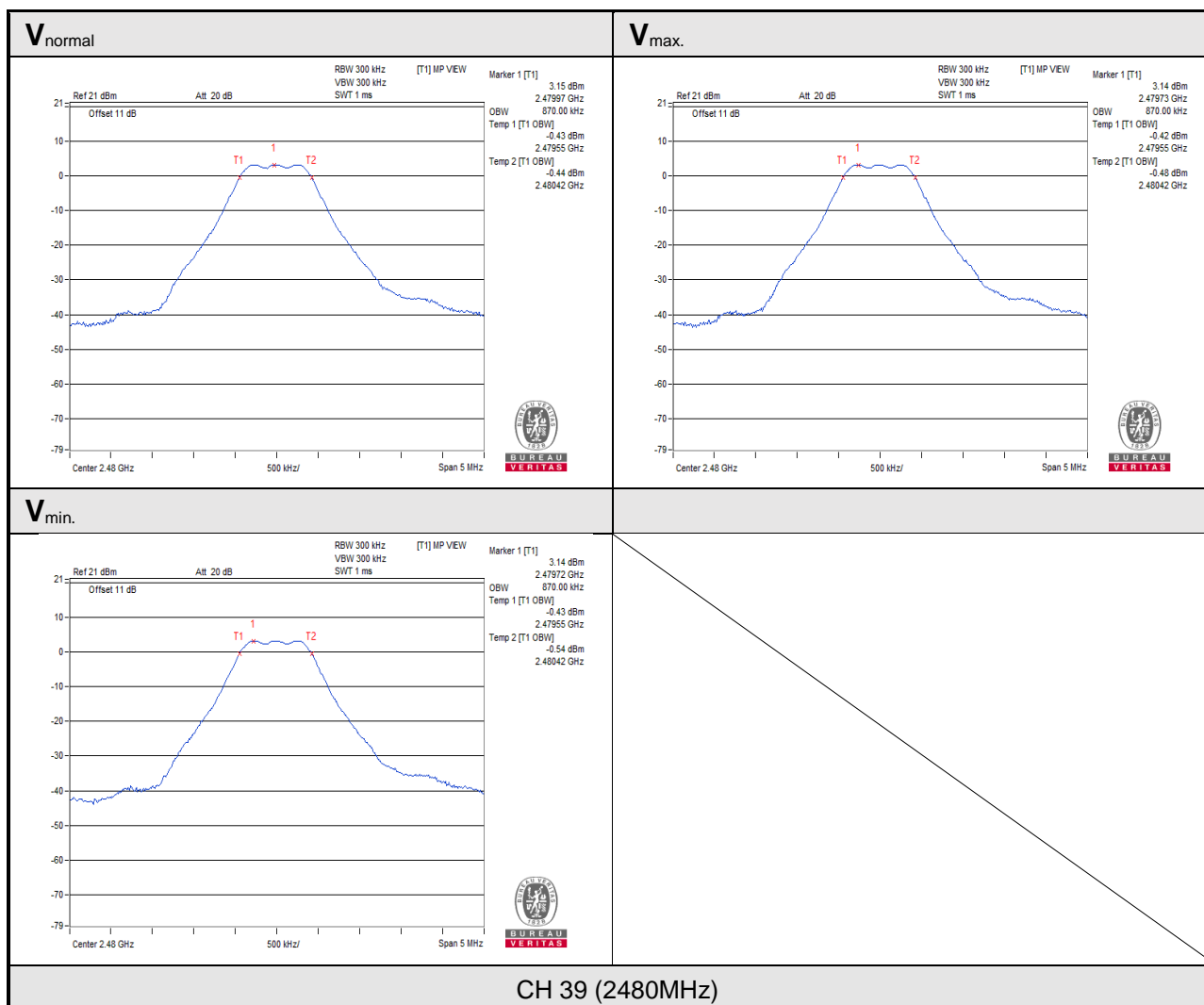


## V<sub>min.</sub>



CH 0 (2402MHz)



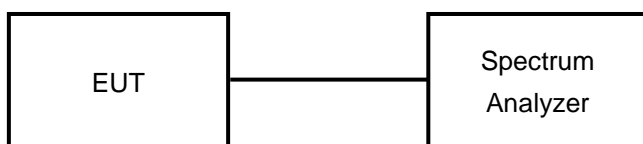


## 4.4 Spurious Emissions for Transmitter Measurement

### 4.4.1 Limits of Spurious Emissions

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

### 4.4.2 Test Setup



#### 4.4.3 Test Results

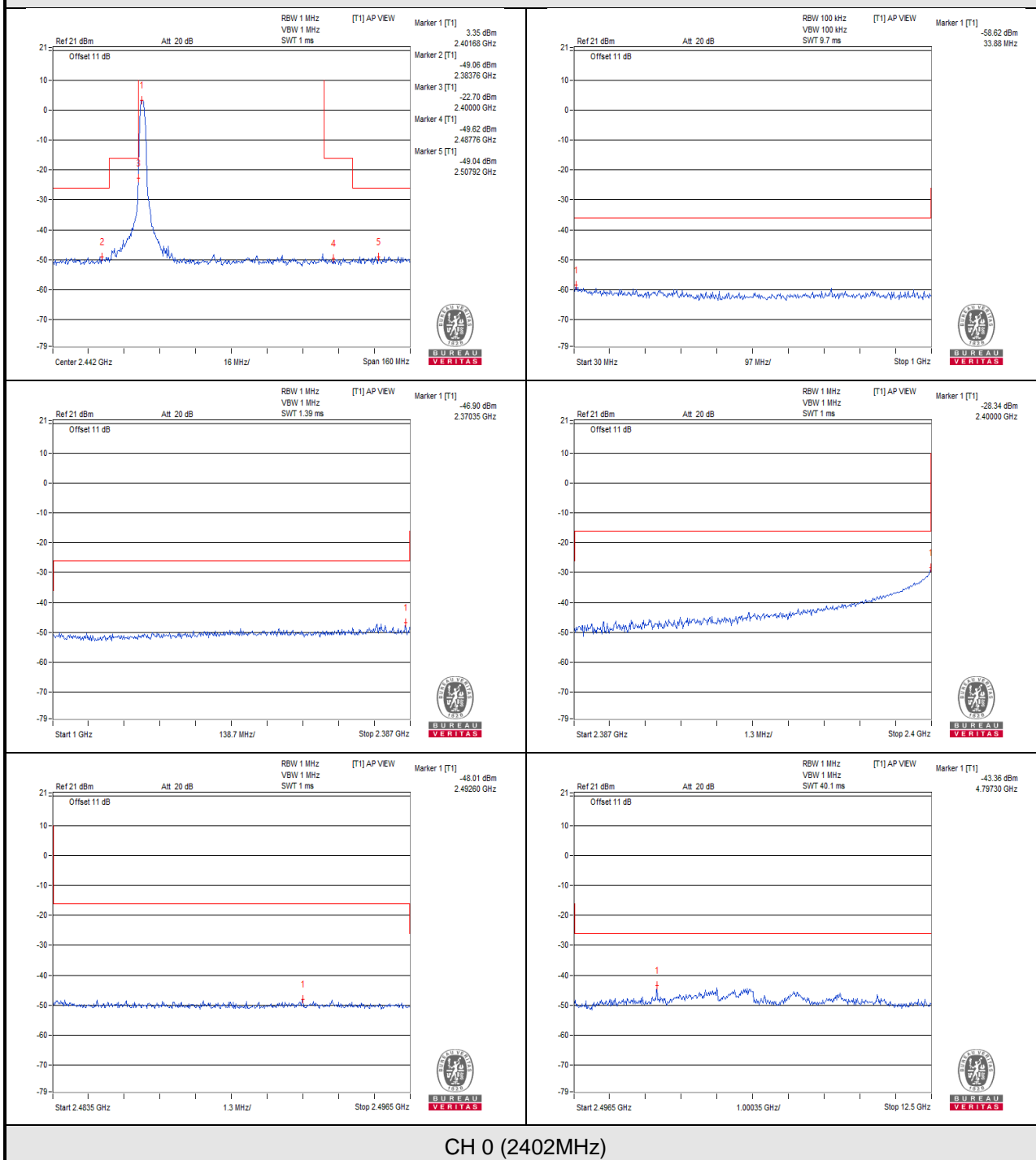
Environmental Conditions		25 deg.C, 60 % RH					
Test Channel		Ch 0 (2402 MHz)		Ch 19 (2440 MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (uW)	Frequency (MHz)	Measured Value (uW)		
<b>V<sub>normal</sub></b>	30.0 MHz to 1000.0 MHz	33.880	0.001374	35.820	0.001403	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2370.350	0.020417	2314.870	0.020184	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2400.000	1.465548	2393.260	0.017742	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2492.600	0.015812	2490.700	0.015885	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	4797.300	0.046132	6397.860	0.036475	2.5uW / MHz	Pass
<b>V<sub>max.</sub></b>	30.0 MHz to 1000.0 MHz	35.820	0.001589	33.880	0.001409	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2276.040	0.019320	2295.450	0.017947	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2400.000	1.415794	2393.390	0.015101	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2493.510	0.014928	2484.540	0.015241	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	7498.250	0.047973	7478.240	0.039719	2.5uW / MHz	Pass
<b>V<sub>min.</sub></b>	30.0 MHz to 1000.0 MHz	55.220	0.001202	33.880	0.001104	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2276.040	0.020749	2287.130	0.016749	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2400.000	1.482518	2392.790	0.016520	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2483.960	0.015066	2488.830	0.015560	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	4797.300	0.038371	7458.230	0.033113	2.5uW / MHz	Pass

Environmental Conditions		25 deg.C, 60 % RH			
Test Channel		Ch 39 (2480 MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (uW)		
V <sub>normal</sub>	30.0 MHz to 1000.0 MHz	33.880	0.001324	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2353.710	0.018793	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2399.060	0.015276	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2483.520	0.360579	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	7438.220	0.036392	2.5uW / MHz	Pass
V <sub>max.</sub>	30.0 MHz to 1000.0 MHz	980.600	0.001291	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2353.710	0.018030	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2399.140	0.017989	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2483.500	0.349945	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	7498.250	0.038726	2.5uW / MHz	Pass
V <sub>min.</sub>	30.0 MHz to 1000.0 MHz	35.820	0.001355	0.25uW / 100kHz	Pass
	1000.0 MHz to 2387.0 MHz	2353.710	0.017660	2.5uW / MHz	Pass
	2387.0 MHz to 2400.0 MHz	2398.700	0.016106	25uW / MHz	Pass
	2483.5 MHz to 2496.5 MHz	2483.570	0.343558	25uW / MHz	Pass
	2496.5 MHz to 12500.0 MHz	7478.240	0.041976	2.5uW / MHz	Pass

Note:

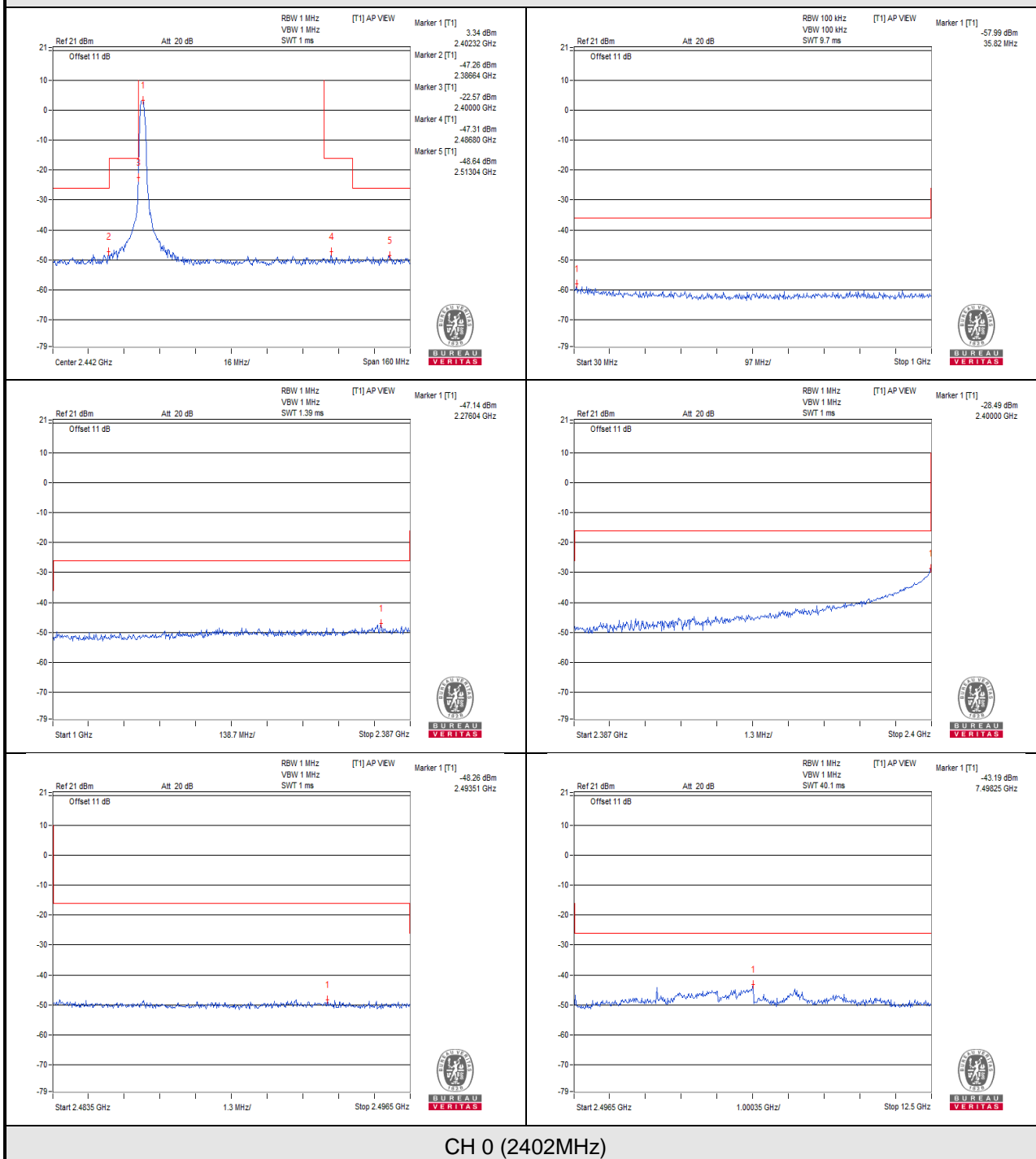
1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode \*Zero Span.

Vnormal

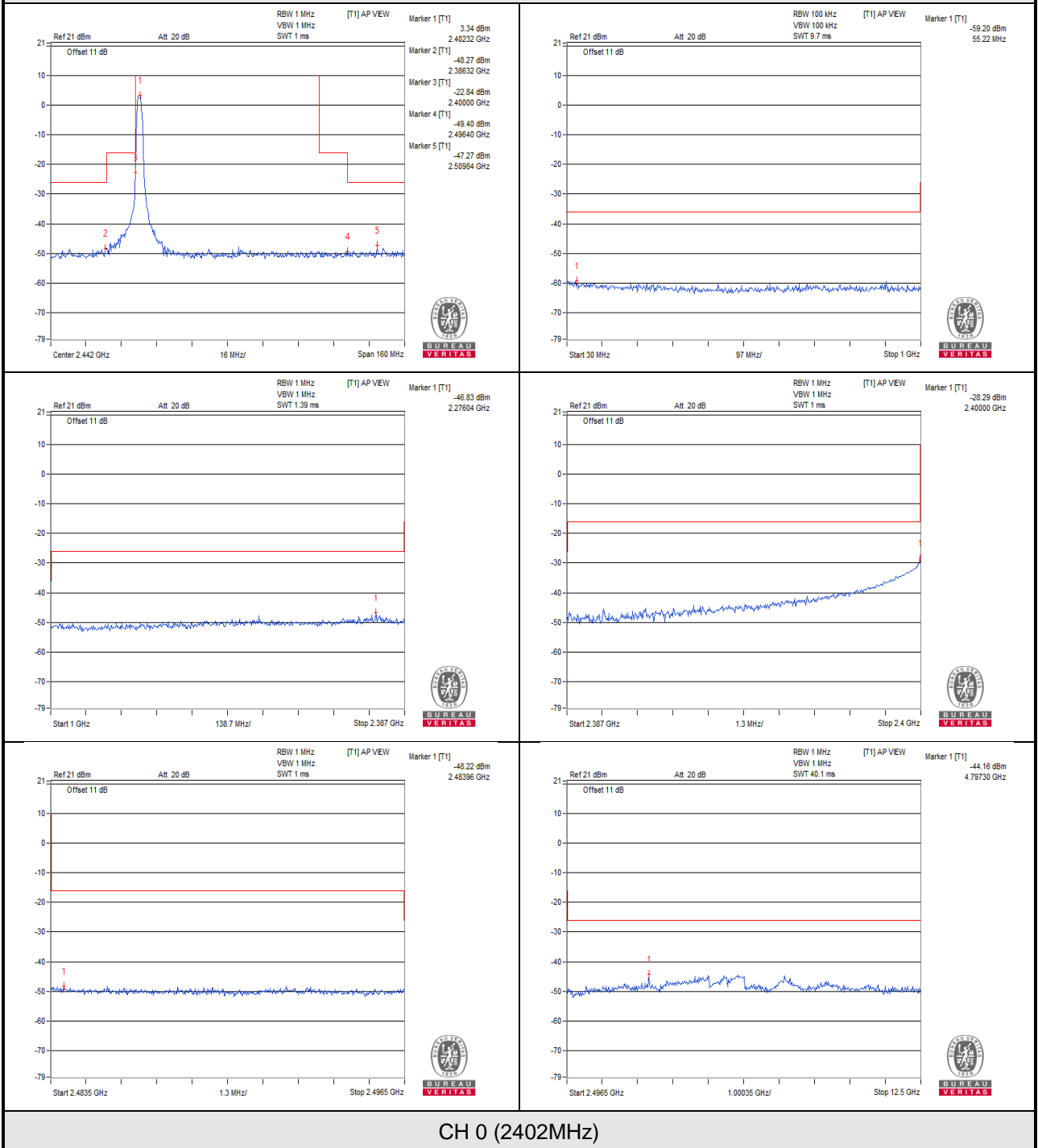




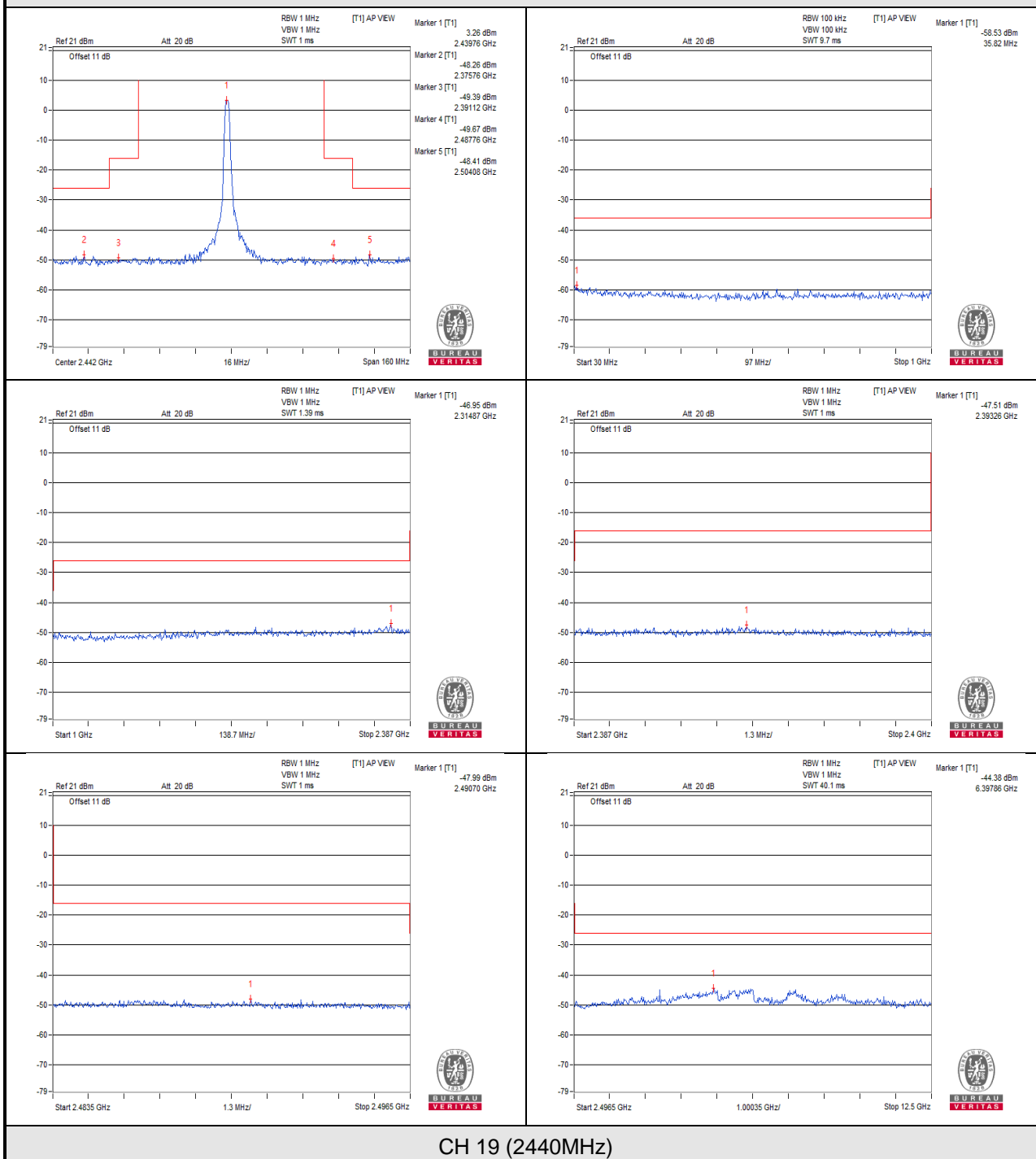
V max.



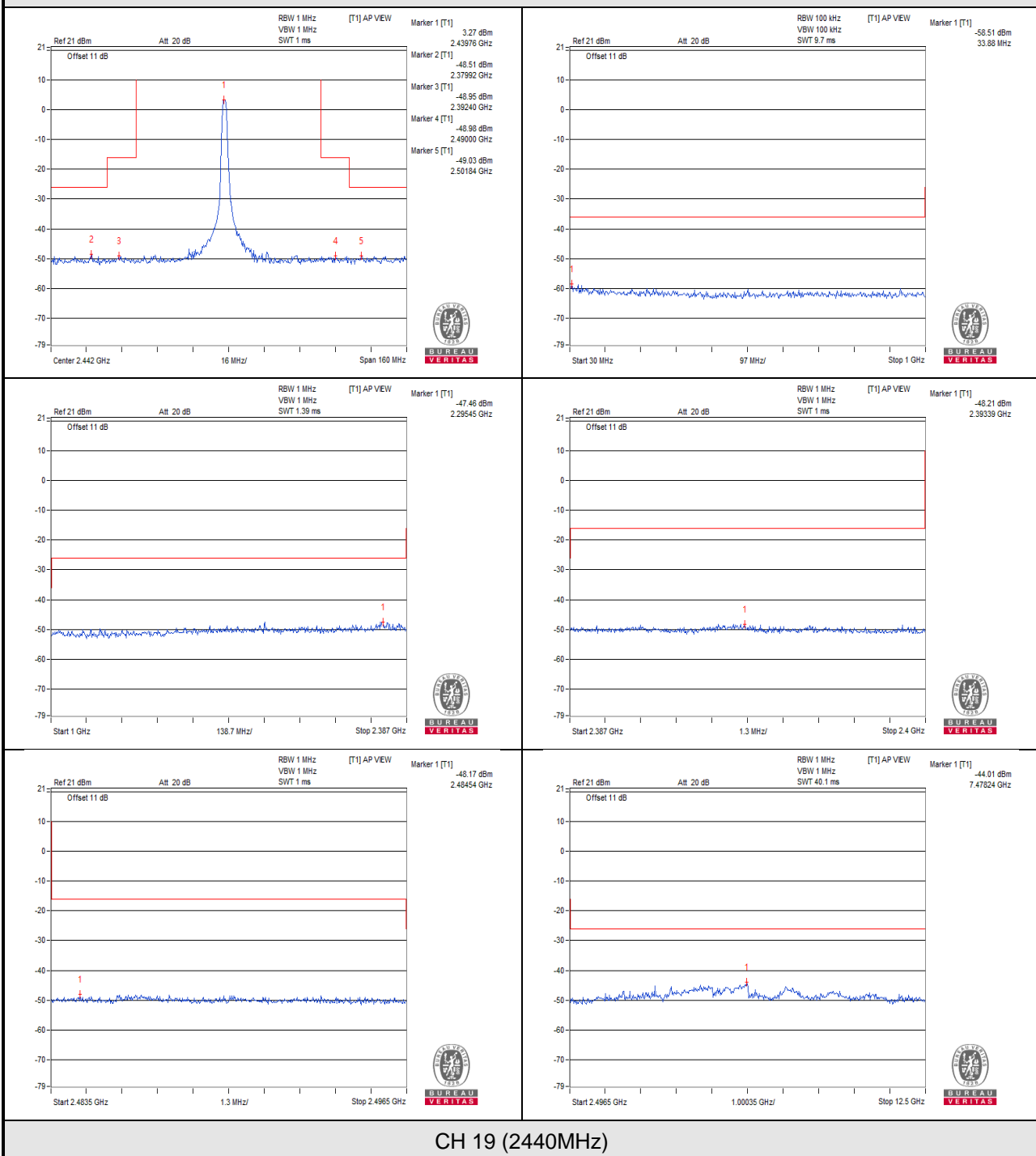
V min.



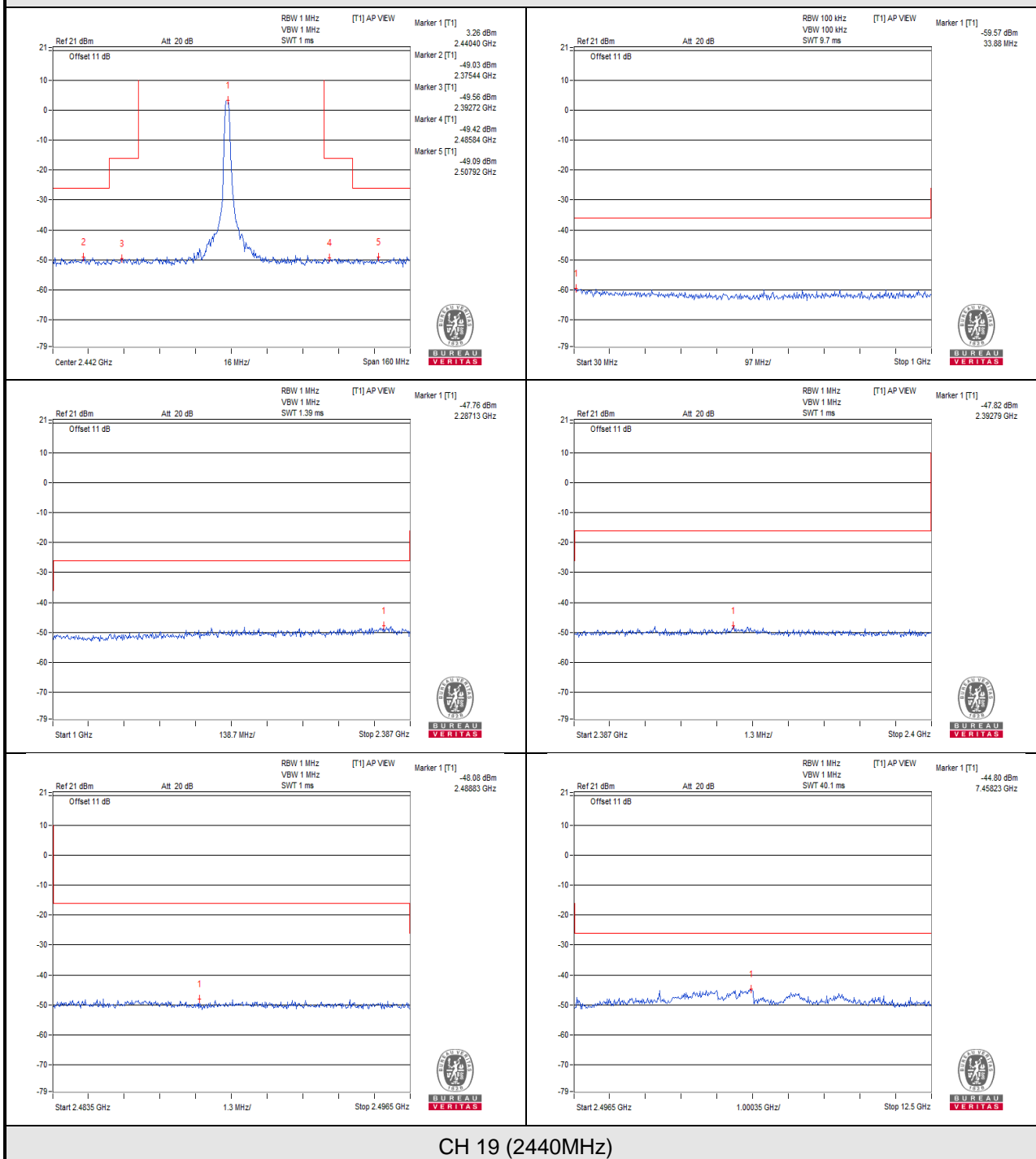
Vnormal



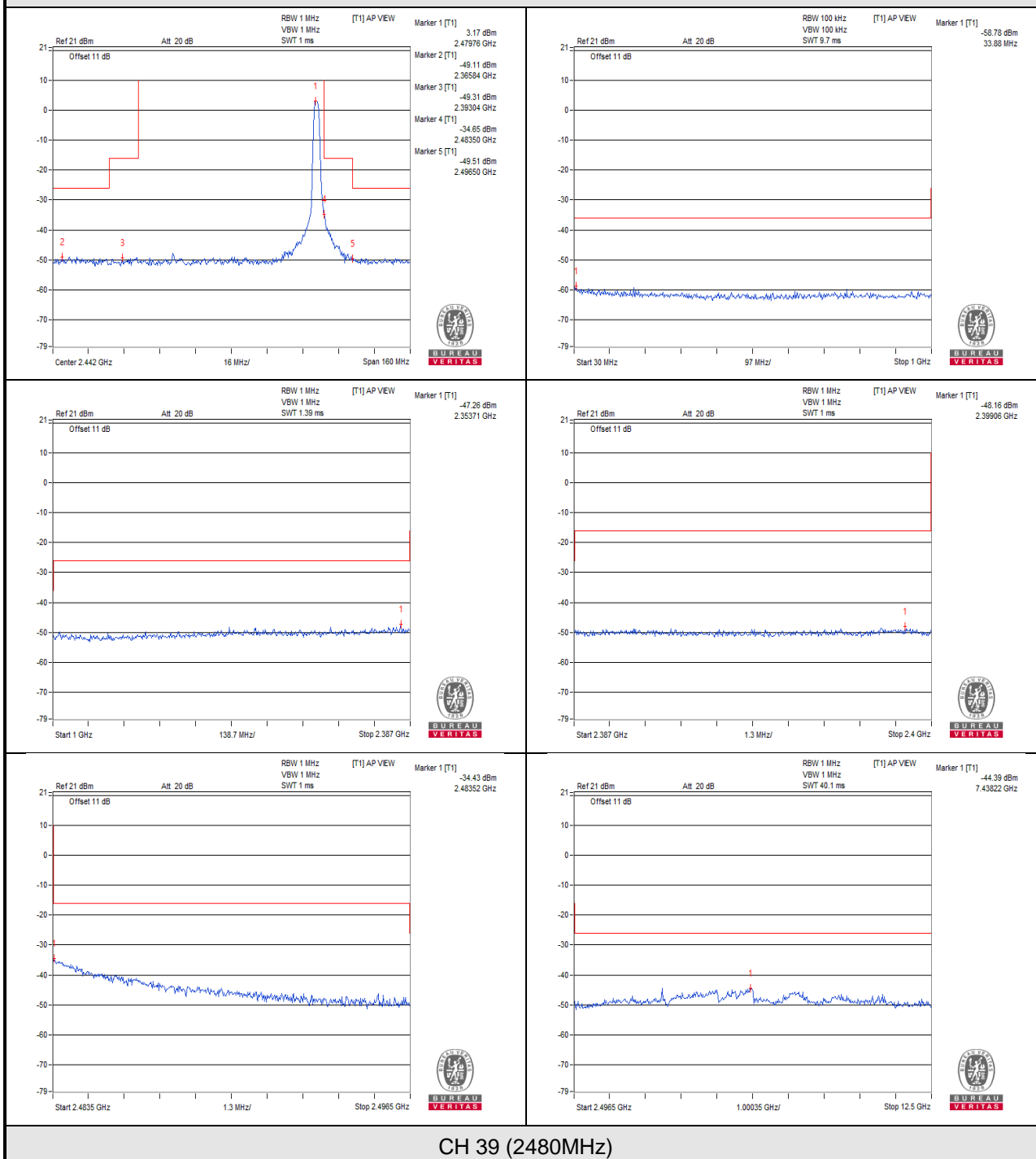
V max.



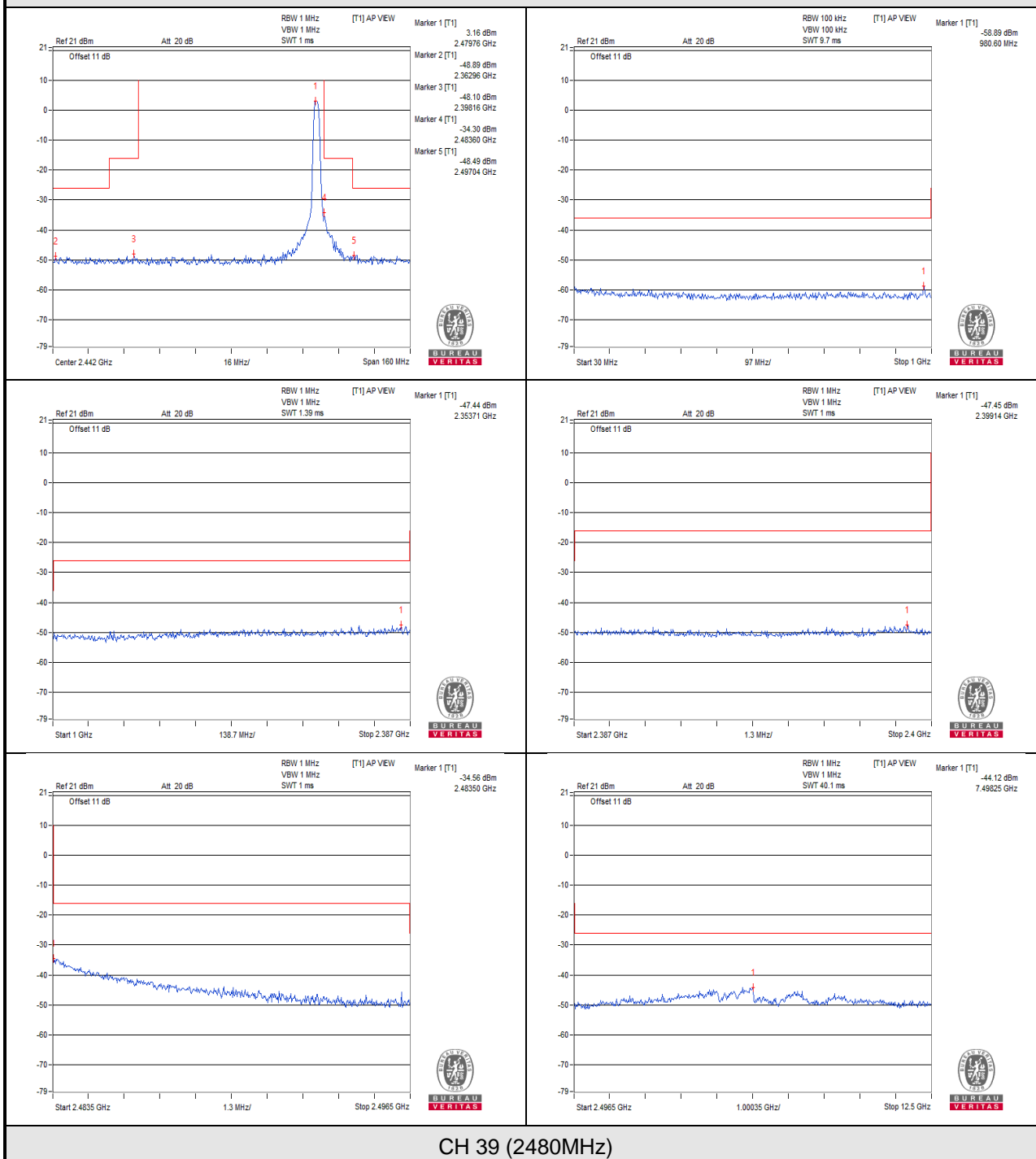
V min.



V normal

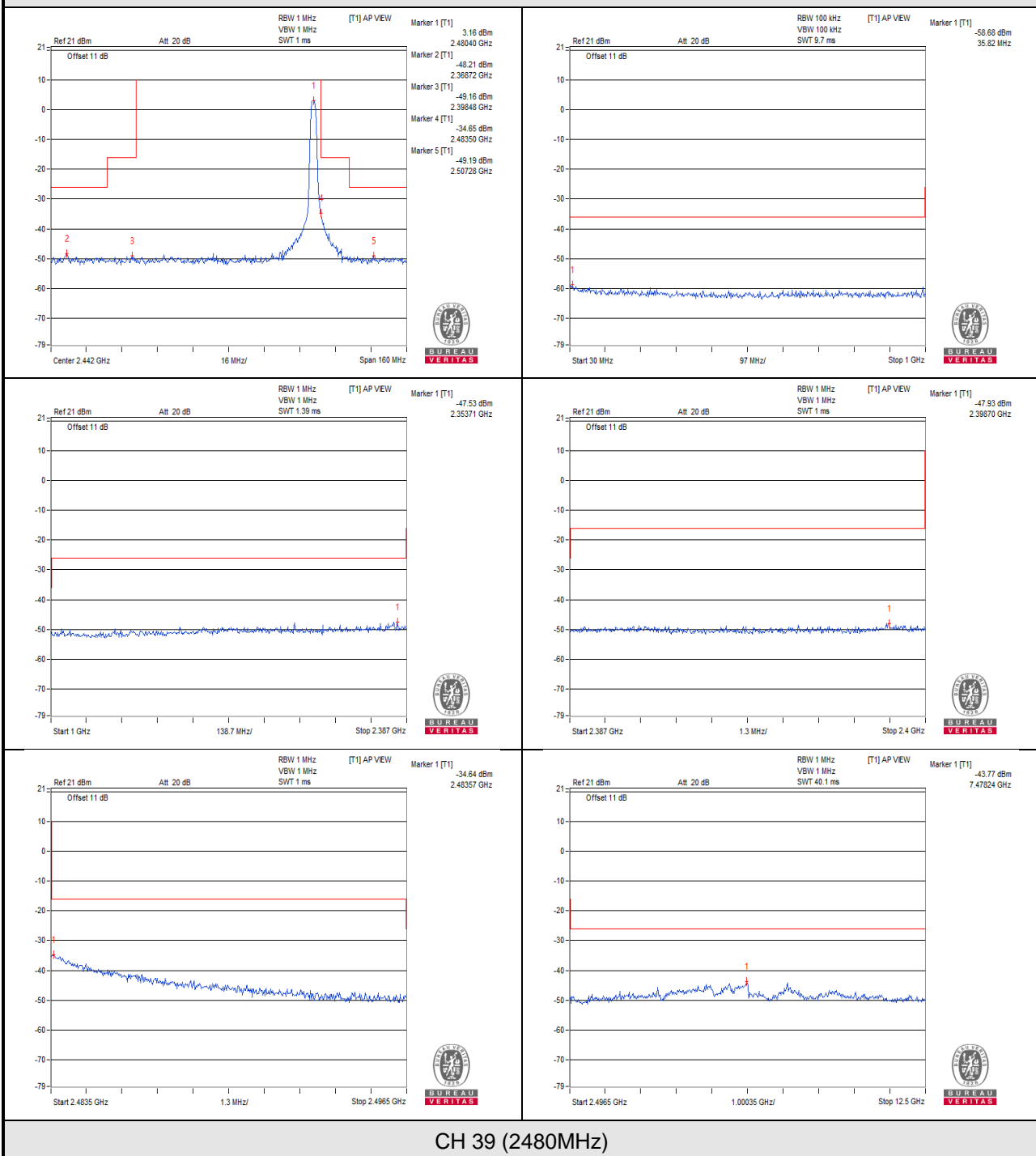


V<sub>max</sub>.



CH 39 (2480MHz)

V min.





## 4.5 Antenna Power Measurement

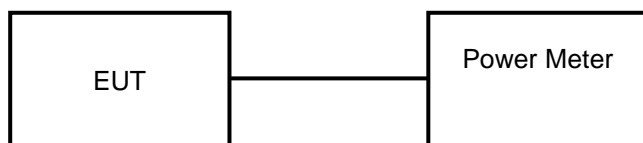
### 4.5.1 Limits of Antenna Power

Modulation Method	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.203 mW/MHz ~ 82.03 mW/MHz)
Other than the above	2400 – 2483.5 MHz	10mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Note:

1. Occupied bandwidth is less than 26 MHz
2. Occupied bandwidth is more than 26 MHz and less than 38 MHz
3. EIRP limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360/A degrees or less, where A = EIRP/(2.14 dBi + "Antenna Power (limit)).
4. Tolerance of antenna power shall be +20 % (upper value) and –80 % (lower value).

### 4.5.2 Test Setup



#### 4.5.3 Test Results

Environmental Conditions		25 deg.C, 60 % RH			
Test Condition		Conducted RF Output Power (mW)			
Channel Number	Frequency (MHz)	V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>	Max. Limit (mW)
0	2402	2.148	2.123	2.198	10
19	2440	2.178	2.133	2.223	10
39	2480	2.213	2.133	2.301	10
Rated Power		3 mW			
Tolerance of Antenna Power		0.6 ~ 3.6 mW			

#### Dipole antenna with 2.5 dBi gain

Environmental Conditions		25 deg.C, 60 % RH			
Test Condition		Radiated RF Output Power (mW)			
Channel Number	Frequency (MHz)	V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>	Max. Limit (mW)
0	2402	3.82	3.775	3.909	16.368
19	2440	3.873	3.793	3.953	16.368
39	2480	3.935	3.793	4.092	16.368

Note: 1. The radiated RF output power is a “calculated” value derived from the conducted value.

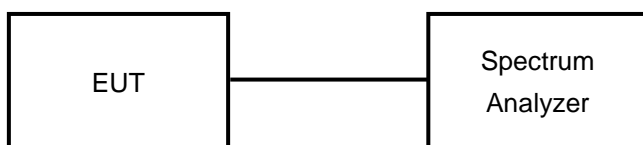
2. Formula: Radiated RF output power = Conducted RF output power + Antenna Gain.

## 4.6 Spurious Emissions for Receiver

### 4.6.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1 GHz	$\leq 4 \text{ nW (-54 dBm)}$
Above 1 GHz	$\leq 20 \text{ nW (-47 dBm)}$

### 4.6.2 Test Setup



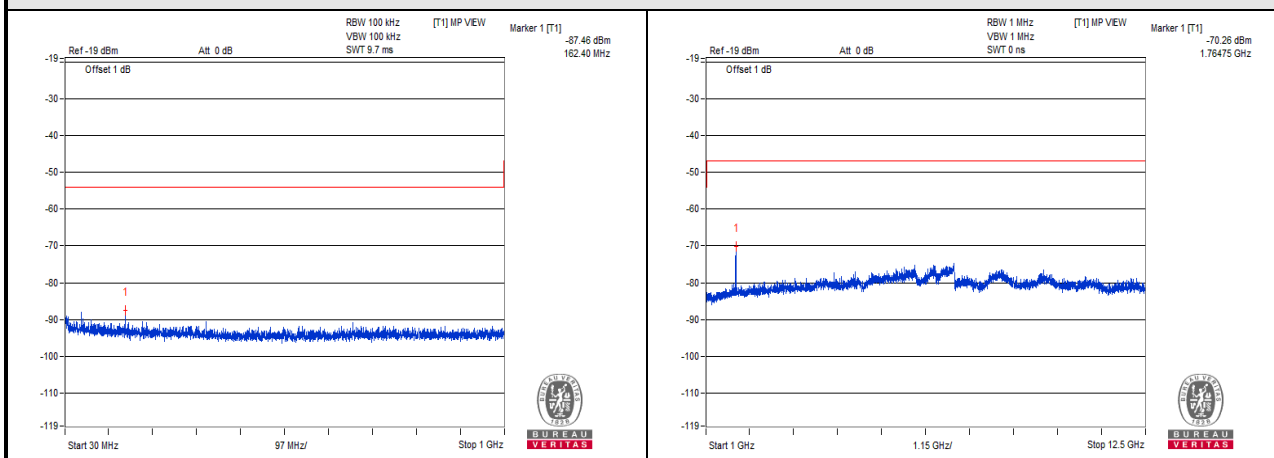
### 4.6.3 Test Result

Environmental Conditions		25 deg.C, 60 % RH					
Test Channel		Channel 0 (2402 MHz)		Channel 19 (2440 MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (nW)	Frequency (MHz)	Measured Value (nW)		
V <sub>normal</sub>	Below 1 GHz	162.400	0.001795	63.700	0.001371	4 nW	Pass
	Above 1 GHz	1764.750	0.094189	1759.000	0.149968	20 nW	Pass
V <sub>max.</sub>	Below 1 GHz	63.700	0.001611	63.700	0.001652	4 nW	Pass
	Above 1 GHz	1770.500	0.084723	1756.120	0.530884	20 nW	Pass
V <sub>min.</sub>	Below 1 GHz	63.700	0.001442	31.940	0.001563	4 nW	Pass
	Above 1 GHz	1770.500	0.053088	7477.370	0.040832	20 nW	Pass
Test Channel		Channel 39 (2480 MHz)				Limit	Result
Test Condition	Frequency Range	Frequency (MHz)		Measured Value (nW)			
V <sub>normal</sub>	Below 1 GHz	63.700		0.001469		4 nW	Pass
	Above 1 GHz	7480.250		0.042170		20 nW	Pass
V <sub>max.</sub>	Below 1 GHz	63.700		0.001503		4 nW	Pass
	Above 1 GHz	7457.250		0.035892		20 nW	Pass
V <sub>min.</sub>	Below 1 GHz	886.750		0.001734		4 nW	Pass
	Above 1 GHz	7342.250		0.034041		20 nW	Pass

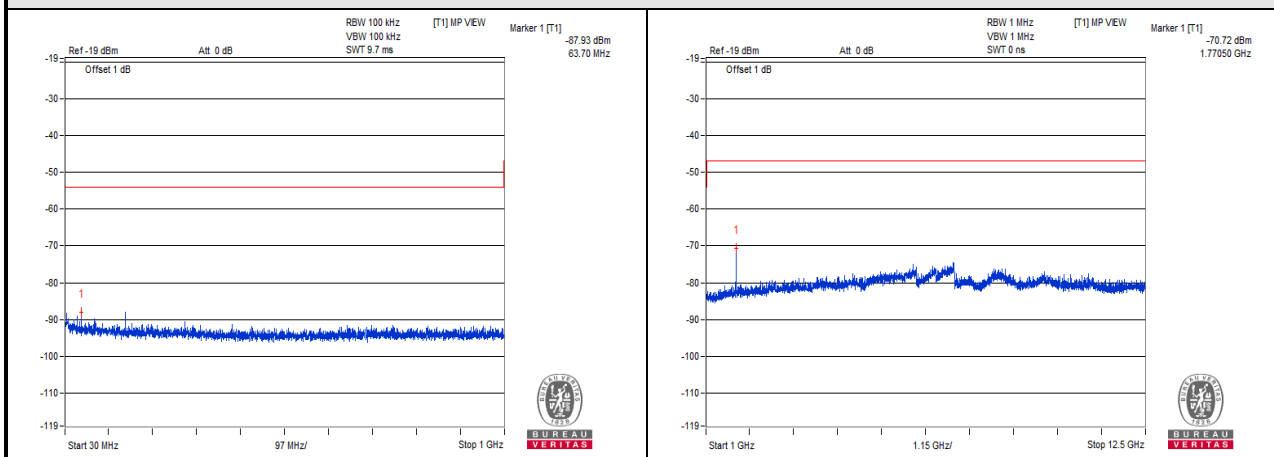
Note: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.

2. The spectrum plots are attached on the following pages.

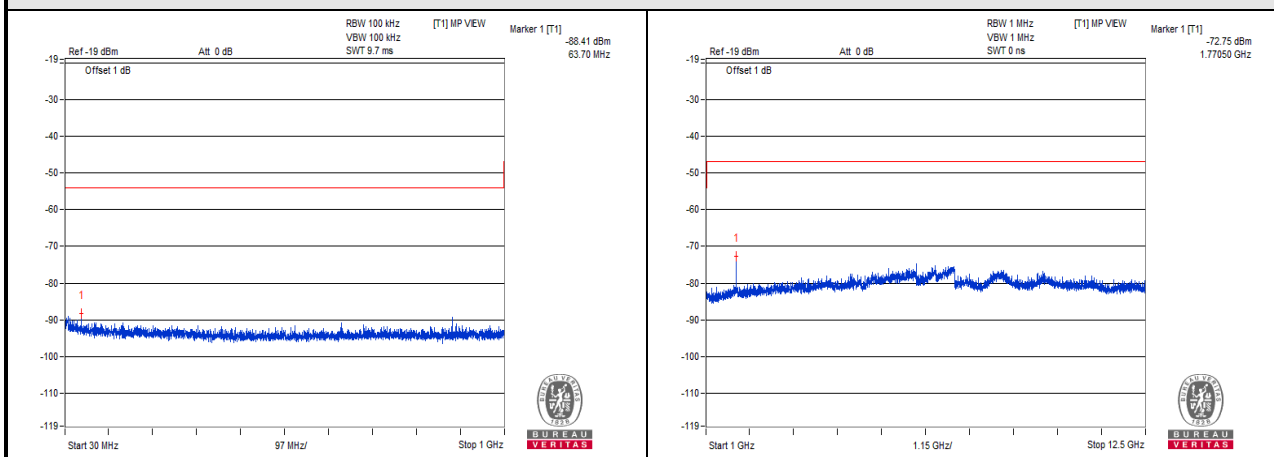
## V<sub>normal</sub>



## V<sub>max</sub>

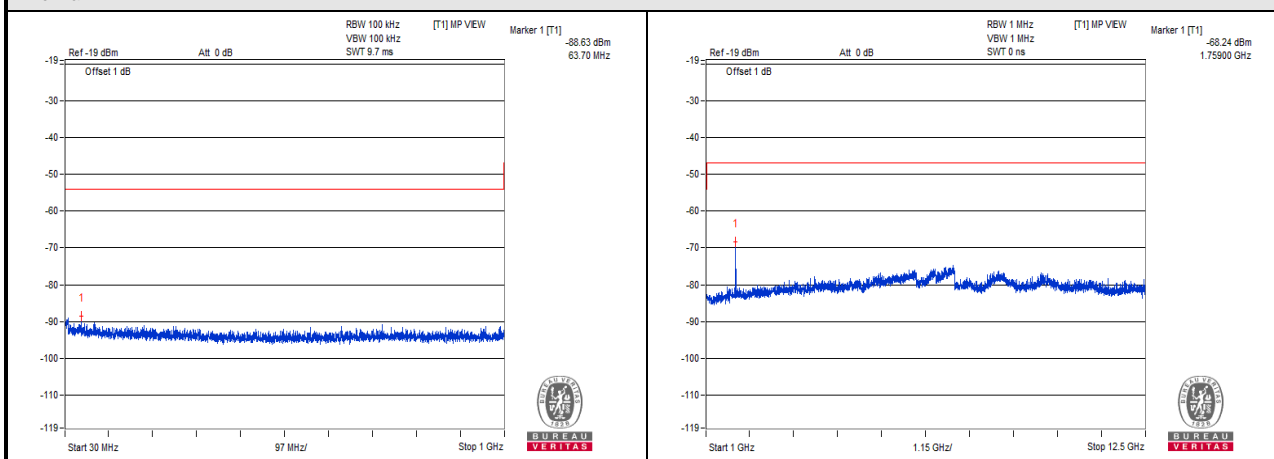


## V<sub>min</sub>

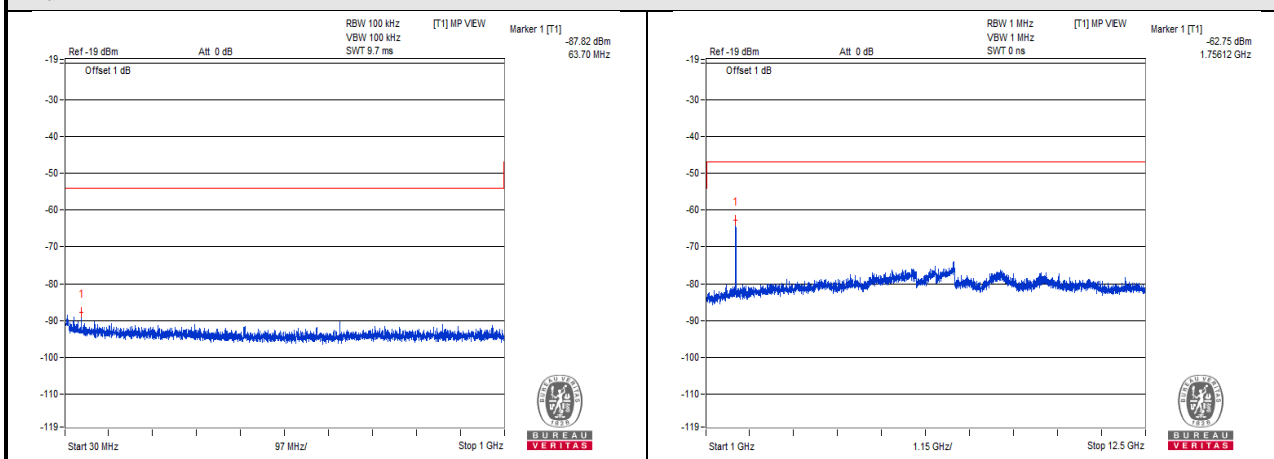


CH 0 (2402MHz)

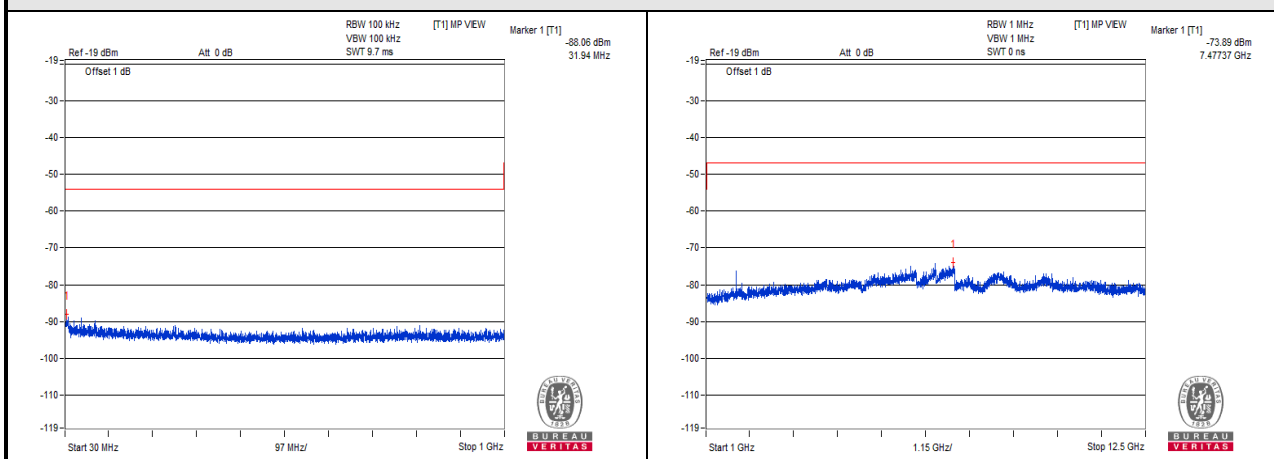
## V<sub>normal</sub>



## V<sub>max</sub>

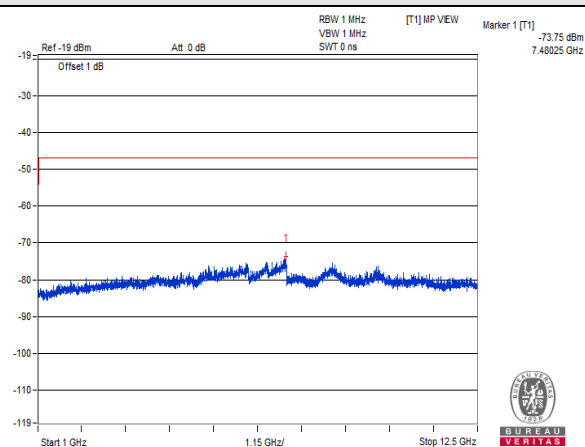
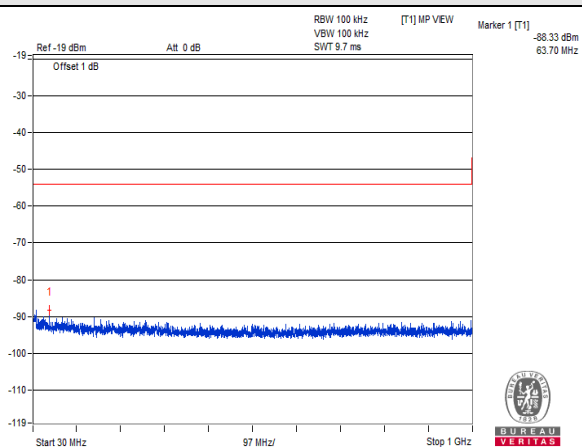


## V<sub>min</sub>

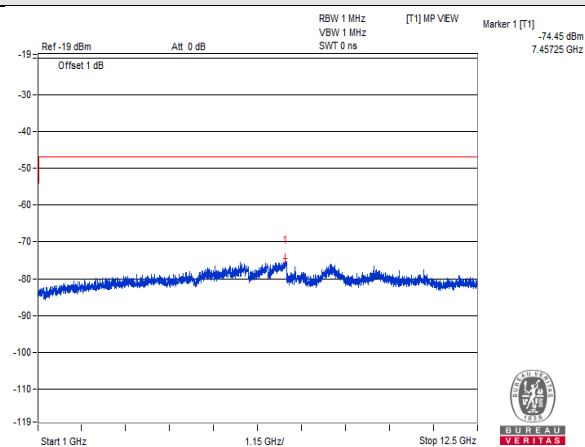
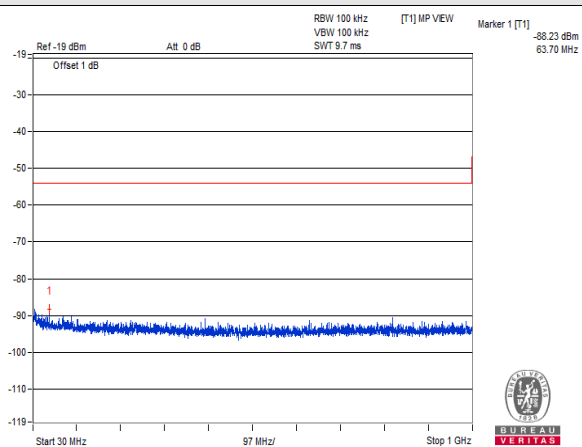


CH 19 (2440MHz)

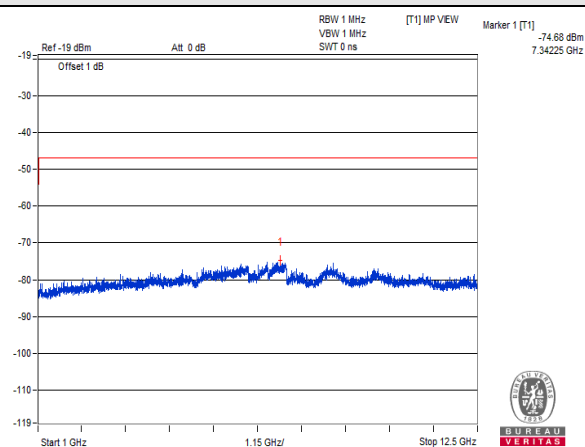
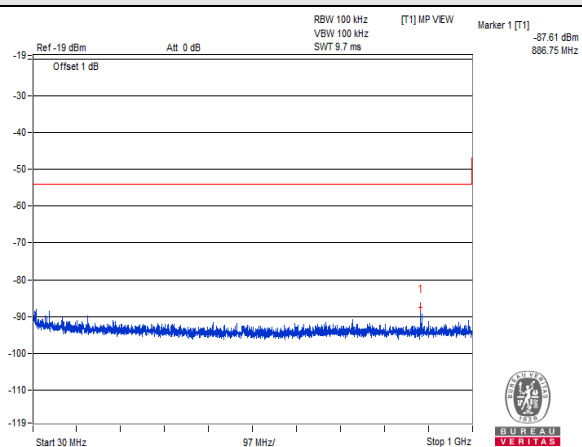
## V normal



## V max.



## V min.



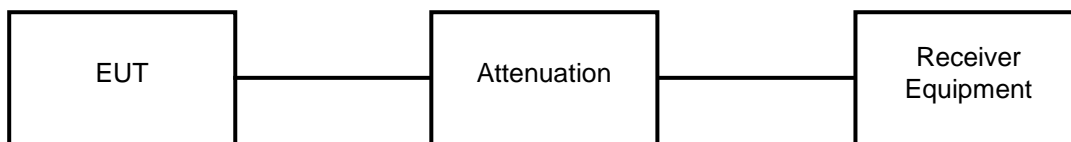
CH 39 (2480MHz)

## 4.7 Interference Prevention Function

### 4.7.1 Limits of Interference Prevention Function

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

### 4.7.2 Test Setup



### 4.7.3 Test Results

Environmental Conditions	25 deg.C, 68 % RH
Link Mode	Test Result
SRD	Pass

## 5 Test Instruments

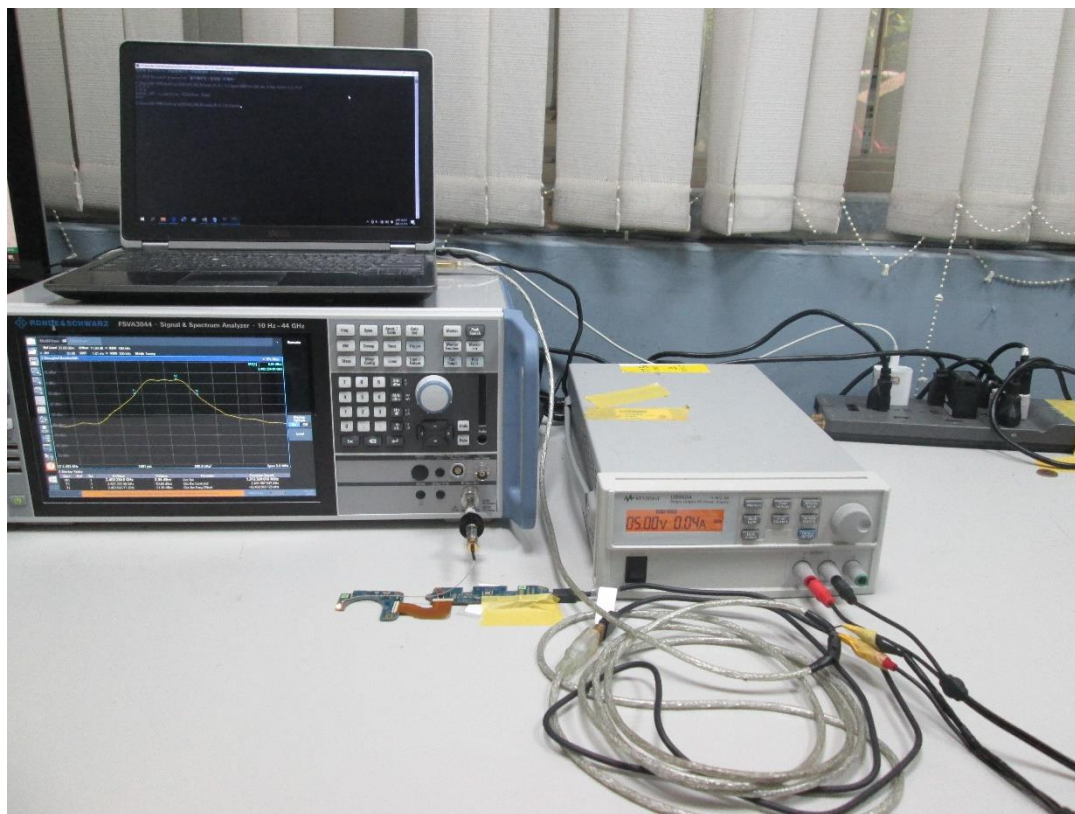
Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration	Calibration Authority	Cal. Method
SPECTRUM ANALYZER / ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021	ETC	c)
SIGNAL GENERATOR / AGILENT	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021	ETC	c)
POWER METER / ANRITSU	ML2495A	1145013	Jun. 01, 2020	May 31, 2021	ETC	c)
POWER SENSOR / ANRITSU	MA2411B	1126085	Jun. 01, 2020	May 31, 2021	ETC	c)
2WAY DIV / WOKEN	2Way SMA Fwd.:30W/Rev.:2W Isolated Powe	COM412W5E3	Jan. 13, 2021	Jan. 12, 2022	BV CPS E&E	d)
AC POWER SOURCE / EEC	6905S	1991553	NA	NA	BV CPS E&E	d)
TRUE RMS CLAMP METER / FLUKE	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021	ETC	c)

### NOTE:

- The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 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) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~.
  - Correction conducted pursuant to the provisions of Article 135 or Article 144 of the MeasurementLaw (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) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~.
  - Calibration conducted by using other equipment that listed above from a) to c)



## 6 Photographs of the Test Configuration



## Appendix - 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 accredited and approved according to ISO/IEC 17025.

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

**Lin Kou EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

**Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

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