

## Radio Test Report

**Report No.:** RJBEKC-WTW-P22080971

**Test Model:** AW620M

**Received Date:** 2022/8/30

**Test Date:** 2022/9/20

**Issued Date:** 2022/10/13

**Applicant:** LITE-ON Technology Corp.

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

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

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



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**Release Control Record**

Issue No.	Description	Date Issued
RJBEKC-WTW-P22080971	Original release.	2022/10/13

## 1 Certificate of Conformity

**Product:** Gaming Mouse

**Brand:** ALIENWARE, DELL

**Test Model:** AW620M

**Sample Status:** Engineering sample

**Applicant:** LITE-ON Technology Corp.

**Test Date:** 2022/9/20

**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.

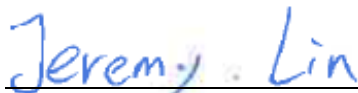
**Prepared by :**



Jessica Cheng / Senior Specialist

, **Date:** 2022/10/13

**Approved by :**



Jeremy Lin / Project Engineer

, **Date:** 2022/10/13

## 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)	4.4	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)	4.5	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
<b>Operating Frequency 2400 to 2483.5MHz</b>				
--	3.7 (1)	3.4	High Frequency/modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	NA
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	Absolute gain of transmitting antenna	C
--	3.6 (2)	4.4	Angular width of principal radiation (AWPR)	NA
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	--	Diffusion bandwidth	NA
--	3.2 (9)	--	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.6	Interference Prevention Function	C
--	3.4.1(3)	--	Carrier Sense Capability	NA

Note:

1. C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 2.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Cal. Method
MIMO Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2022/9/5	2023/9/4	ETC	c)
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13	ETC	c)
Pulse Power Sensor Anritsu	MA2411B	1207333	2022/1/9	2023/1/8	ETC	c)
Peak Power meter Anritsu	ML2495A	1232003	2022/1/9	2023/1/8	ETC	c)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8	ETC	c)
Voltage Meter FLUKE	179	89610322	2021/10/5	2022/10/4	ETC	c)
Programmable DC Power Supply (IDRC)	DSP80-180WE	701217	2022/3/3	2023/3/2	ETC	c)

### NOTE: Calibration Method

- a) : Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- b) : 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.
- c) : 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).
- d) : Calibration conducted by using other equipment that listed above from a) to c)

## 2.2 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 ( $\pm$ )
Occupied Bandwidth	206.50 Hz
Spurious emissions	3.93 dB
Output power density	1.11 dB
Out of band radiated power	3.93 dB
Frequency Tolerance	603.76 Hz

## 2.3 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Gaming Mouse
Brand	ALIENWARE, DELL
Test Model	AW620M
Status of EUT	Engineering sample
Nominal Voltage	3.7Vdc from battery
Modulation Type	GFSK
Operating Frequency	2403MHz ~ 2480MHz
Number of Channel	78
Assembly	The EUT used a kind of particular screw, which could not operated by a tool bought in the market. Only means of brute force will be able to opened

Note: 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 Output Power Description of EUT

Modulation Type	Rated power (mW)	Total Conducted RF output power (mW)	Radiated RF output power (mW)
GFSK	2	1.315	1.51

#### 3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Frequency range (MHz)	Gain (dBi)	Antenna Type	Connector Type
2400~2483.5	0.6	Chip	N/A

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

2. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

### 3.4 Description of Test Modes

78 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
<b>0</b>	<b>2403</b>	20	2423	40	2443	60	2463
1	2404	21	2424	41	2444	61	2464
2	2405	22	2425	42	2445	62	2465
3	2406	23	2426	43	2446	63	2466
4	2407	24	2427	44	2447	64	2467
5	2408	25	2428	45	2448	65	2468
6	2409	26	2429	46	2449	66	2469
7	2410	27	2430	47	2450	67	2470
8	2411	28	2431	48	2451	68	2471
9	2412	29	2432	49	2452	69	2472
10	2413	30	2433	50	2453	70	2473
11	2414	31	2434	51	2454	71	2474
12	2415	32	2435	52	2455	72	2475
13	2416	33	2436	53	2456	73	2476
14	2417	34	2437	54	2457	74	2477
15	2418	35	2438	55	2458	75	2478
16	2419	36	2439	56	2459	76	2479
17	2420	37	2440	57	2460	<b>77</b>	<b>2480</b>
18	2421	<b>38</b>	<b>2441</b>	58	2461		
19	2422	39	2442	59	2462		

Note: The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

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

Channel	Power setting
0	0
38	0
77	0



### 3.5 Test Conditions

Test Conditions		Voltage (Vdc)
$V_{\text{normal}}$	-	3.7
$V_{\text{max.}}$	+10%	4.07
$V_{\text{min.}}$	-10%	3.33

Test modes are presented in the report as below:

Test Item	Environmental Conditions
Frequency Tolerance	25 deg.C, 76% RH
Occupied Bandwidth	25 deg.C, 76% RH
Spurious Emissions for Transmitter	25 deg.C, 76% RH
Antenna Power	25 deg.C, 76% RH
Spurious Emissions for Receiver	25 deg.C, 76% RH
Interference Prevention Function	25 deg.C, 76% RH

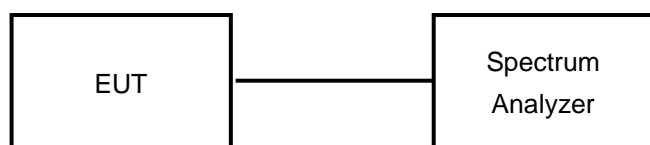
## 4 Test Results

### 4.1 Frequency Tolerance Measurement

#### 4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

#### 4.1.2 Test Setup



#### 4.1.3 Test Results

Channel	Frequency (MHz)	<b>V<sub>normal</sub></b>		<b>V<sub>max.</sub></b>		<b>V<sub>min.</sub></b>	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2403	2403.023800	9.904	2403.023719	9.870	2403.023639	9.837
38	2441	2441.023920	9.799	2441.023920	9.799	2441.023920	9.799
77	2480	2480.024320	9.806	2480.024200	9.758	2480.024119	9.725

## 4.2 Occupied Bandwidth Measurement (99% power bandwidth)

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

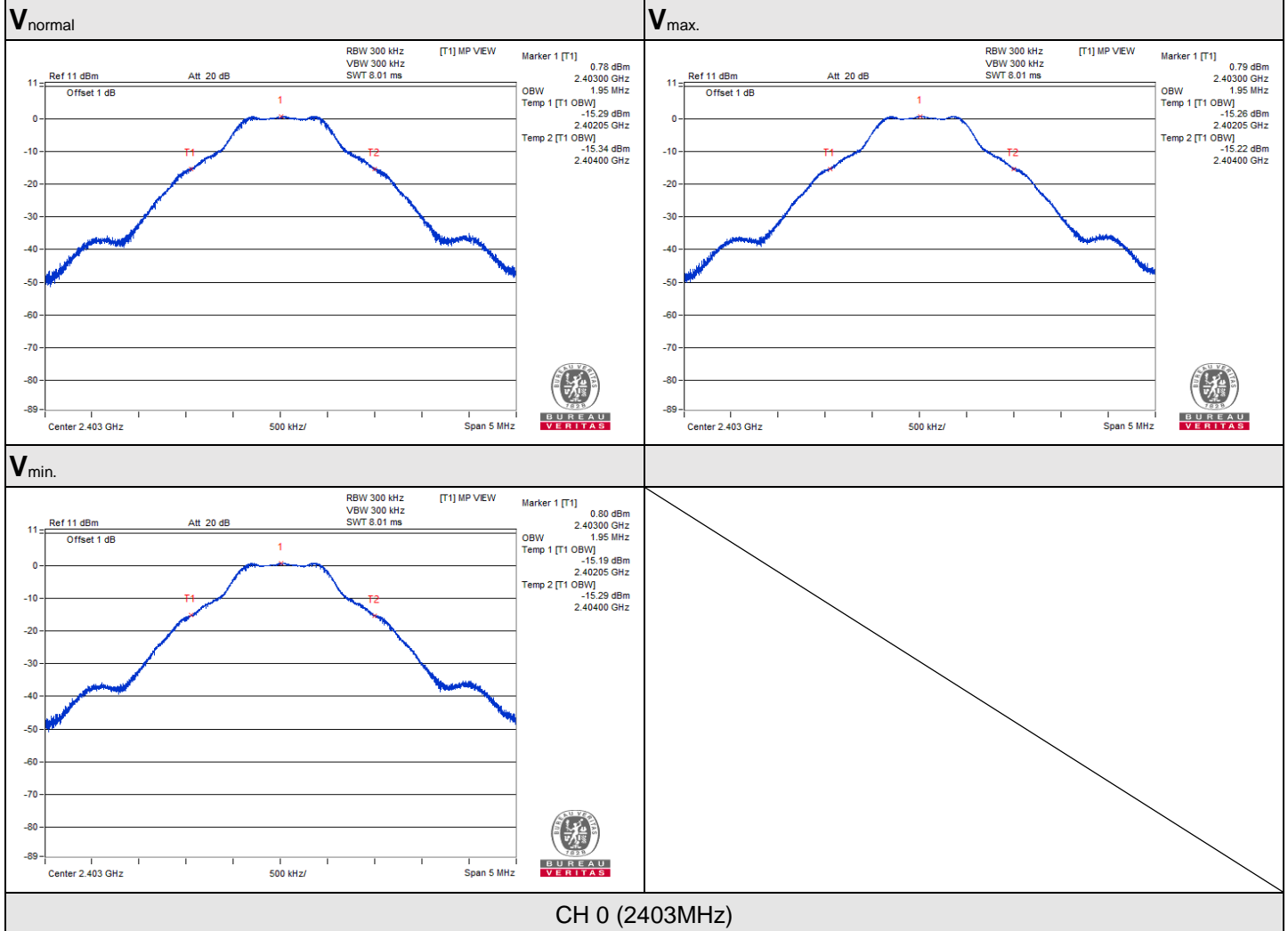
### 4.2.2 Test Setup

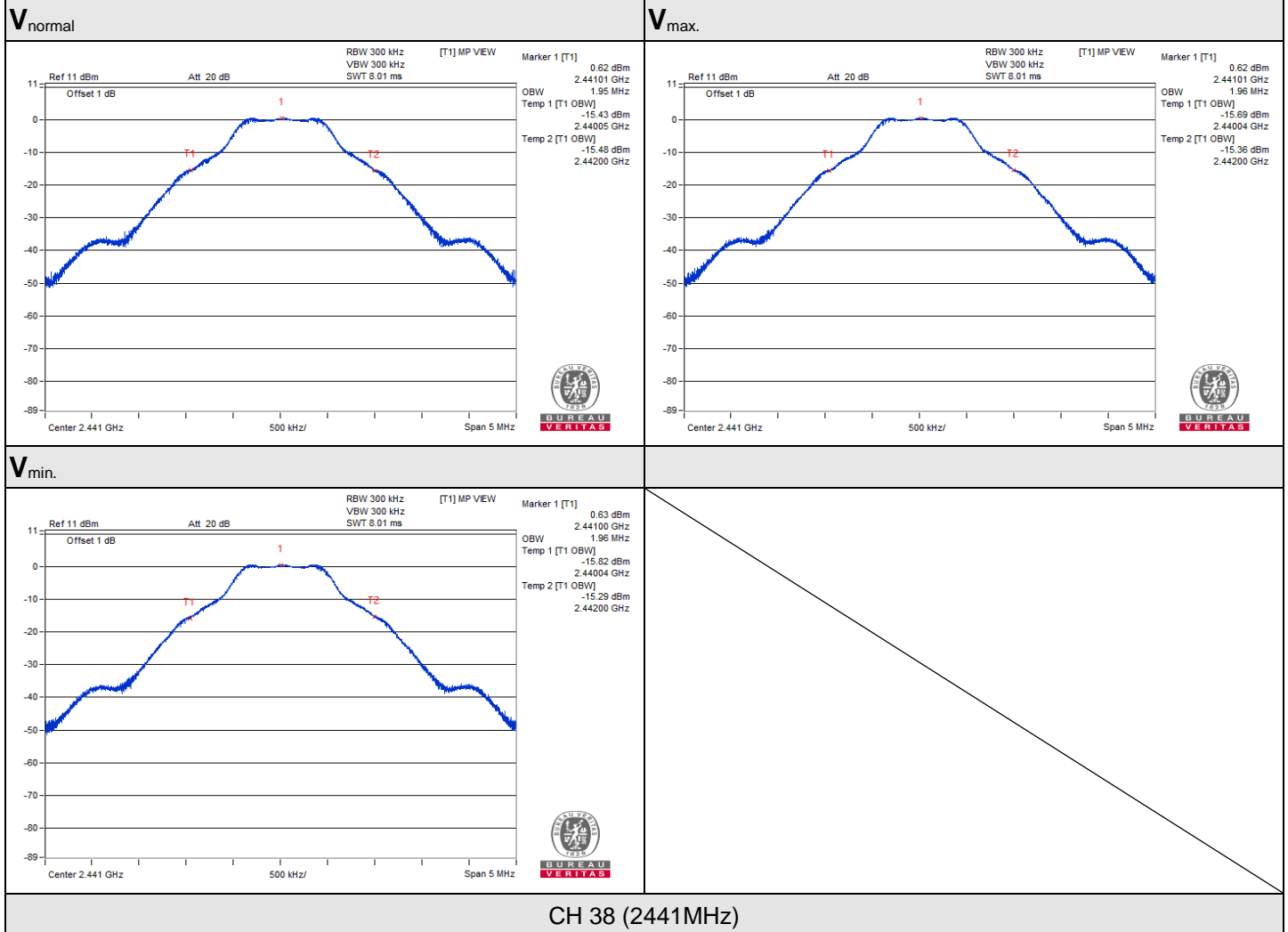


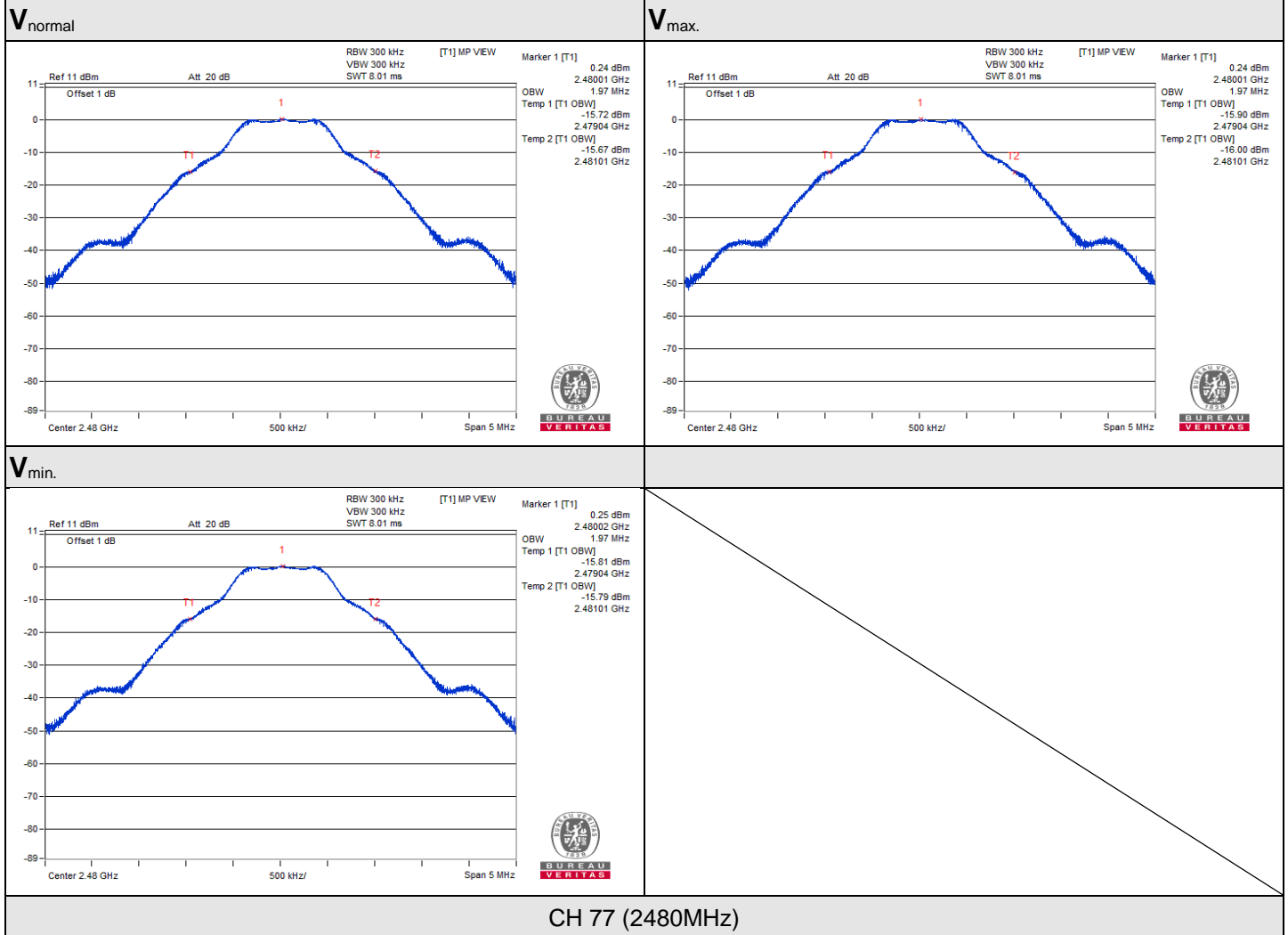
### 4.2.3 Test Results

Channel	Frequency (MHz)	$V_{\text{normal}}$	$V_{\text{max.}}$	$V_{\text{min.}}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2403	1.95	1.95	1.95
38	2441	1.95	1.96	1.96
77	2480	1.97	1.97	1.97

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







## 4.3 Spurious Emissions for Transmitter Measurement

### 4.3.1 Limits of Spurious Emissions

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

### 4.3.2 Test Setup



#### 4.3.3 Test Results

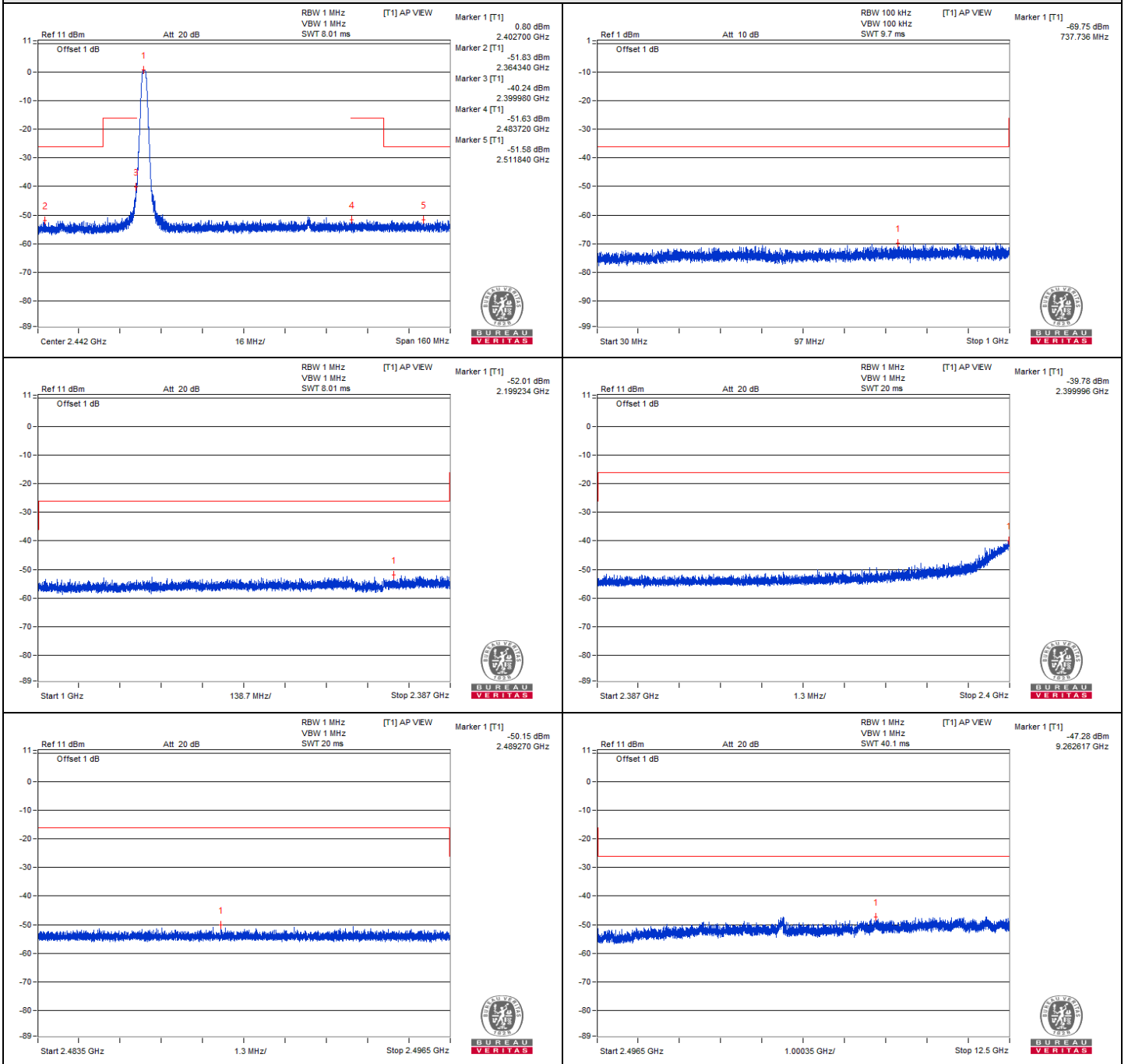
TEST CHANNEL		CH 0 (2403MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT	RESULT
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	737.736	0.000106	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2199.234	0.006295	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.996	0.105196	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2489.270	0.009661	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	9262.617	0.018707	2.5 uW/MHz	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	844.800	0.000112	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2370.702	0.006745	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.972	0.089125	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2492.096	0.009419	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	11279.573	0.023878	2.5 uW/MHz	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	990.542	0.000105	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2378.504	0.006950	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.978	0.097275	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2489.068	0.008110	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	11908.543	0.019409	2.5 uW/MHz	PASS
TEST CHANNEL		CH 38 (2441MHz)			
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	680.263	0.000105	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2313.142	0.008054	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2397.297	0.008166	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2495.195	0.008110	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6996.824	0.020845	2.5 uW/MHz	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	995.998	0.000109	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2313.315	0.009528	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2398.233	0.007762	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2486.740	0.007870	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	12281.173	0.019409	2.5 uW/MHz	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	959.987	0.000108	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2313.835	0.007413	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2390.381	0.007362	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2495.377	0.008453	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	11253.313	0.022594	2.5 uW/MHz	PASS



TEST CHANNEL		CH 77 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE( $\mu$ W)	LIMIT	RESULT
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	838.980	0.000103	0.25 $\mu$ W/100kHz	PASS
	1000MHz to 2387MHz	2287.656	0.011298	2.5 $\mu$ W/MHz	PASS
	2387MHz to 2400MHz	2392.136	0.007534	25 $\mu$ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.574	0.047534	25 $\mu$ W/MHz	PASS
	2496.5MHz to 12500MHz	11947.306	0.019454	2.5 $\mu$ W/MHz	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	985.328	0.000107	0.25 $\mu$ W/100kHz	PASS
	1000MHz to 2387MHz	2288.176	0.021429	2.5 $\mu$ W/MHz	PASS
	2387MHz to 2400MHz	2388.550	0.008054	25 $\mu$ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.721	0.044771	25 $\mu$ W/MHz	PASS
	2496.5MHz to 12500MHz	10796.904	0.020464	2.5 $\mu$ W/MHz	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	881.902	0.000123	0.25 $\mu$ W/100kHz	PASS
	1000MHz to 2387MHz	2352.671	0.012078	2.5 $\mu$ W/MHz	PASS
	2387MHz to 2400MHz	2394.242	0.006998	25 $\mu$ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.506	0.048978	25 $\mu$ W/MHz	PASS
	2496.5MHz to 12500MHz	10598.084	0.020370	2.5 $\mu$ W/MHz	PASS

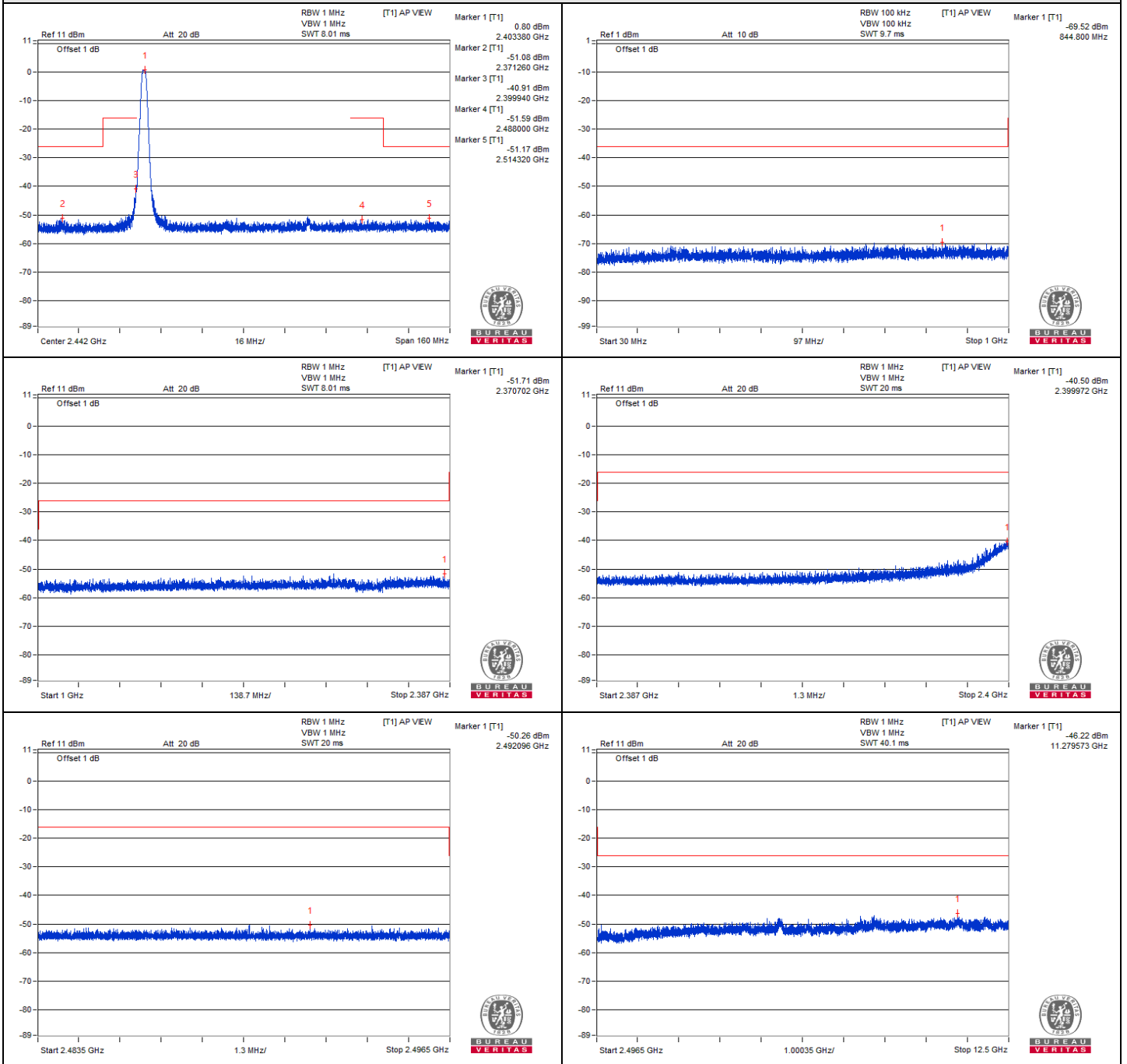
**NOTE:** The spectrum plots are attached on the following pages.

V<sub>normal</sub>



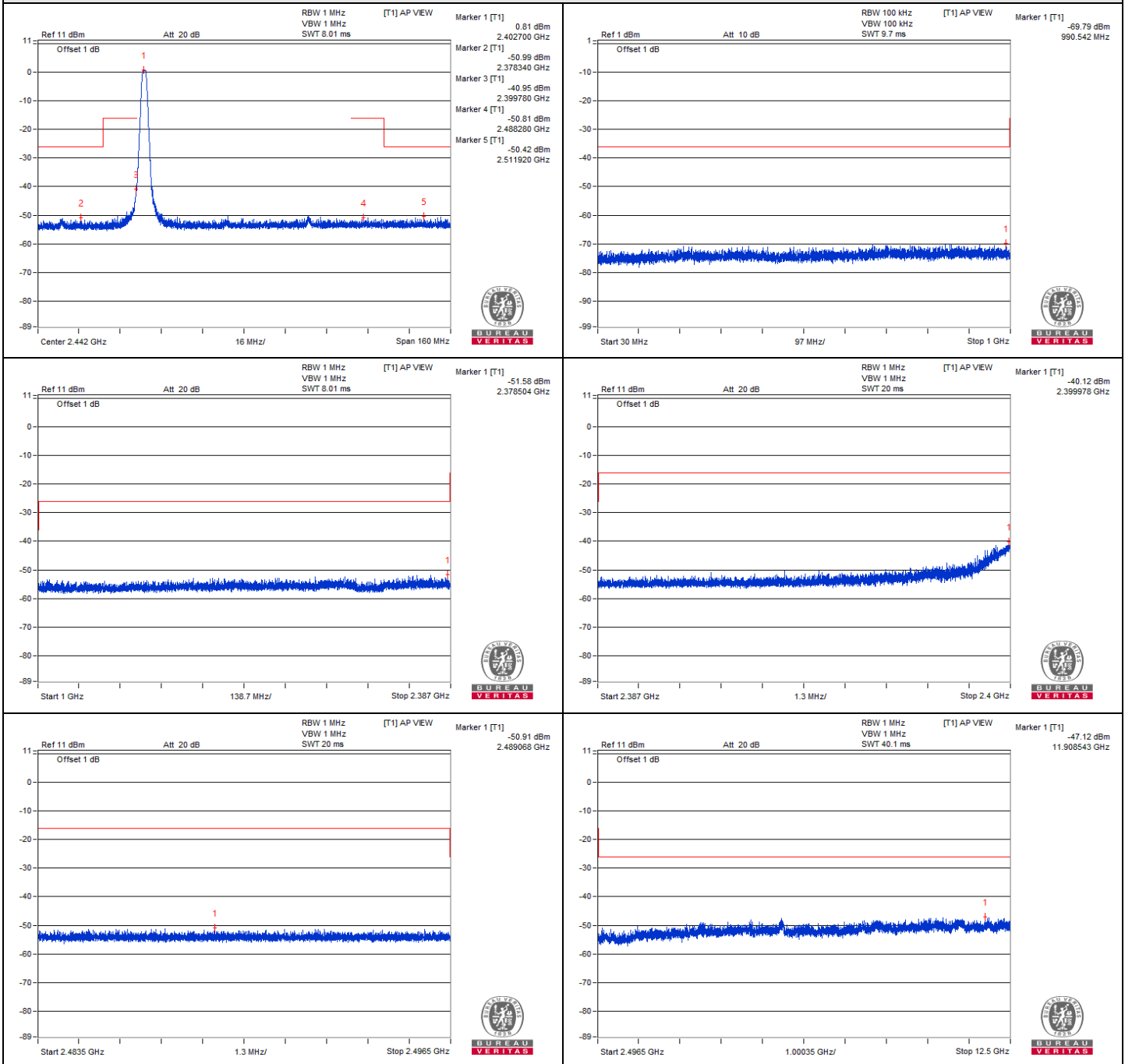
CH 0 (2403MHz)

V<sub>max</sub>.



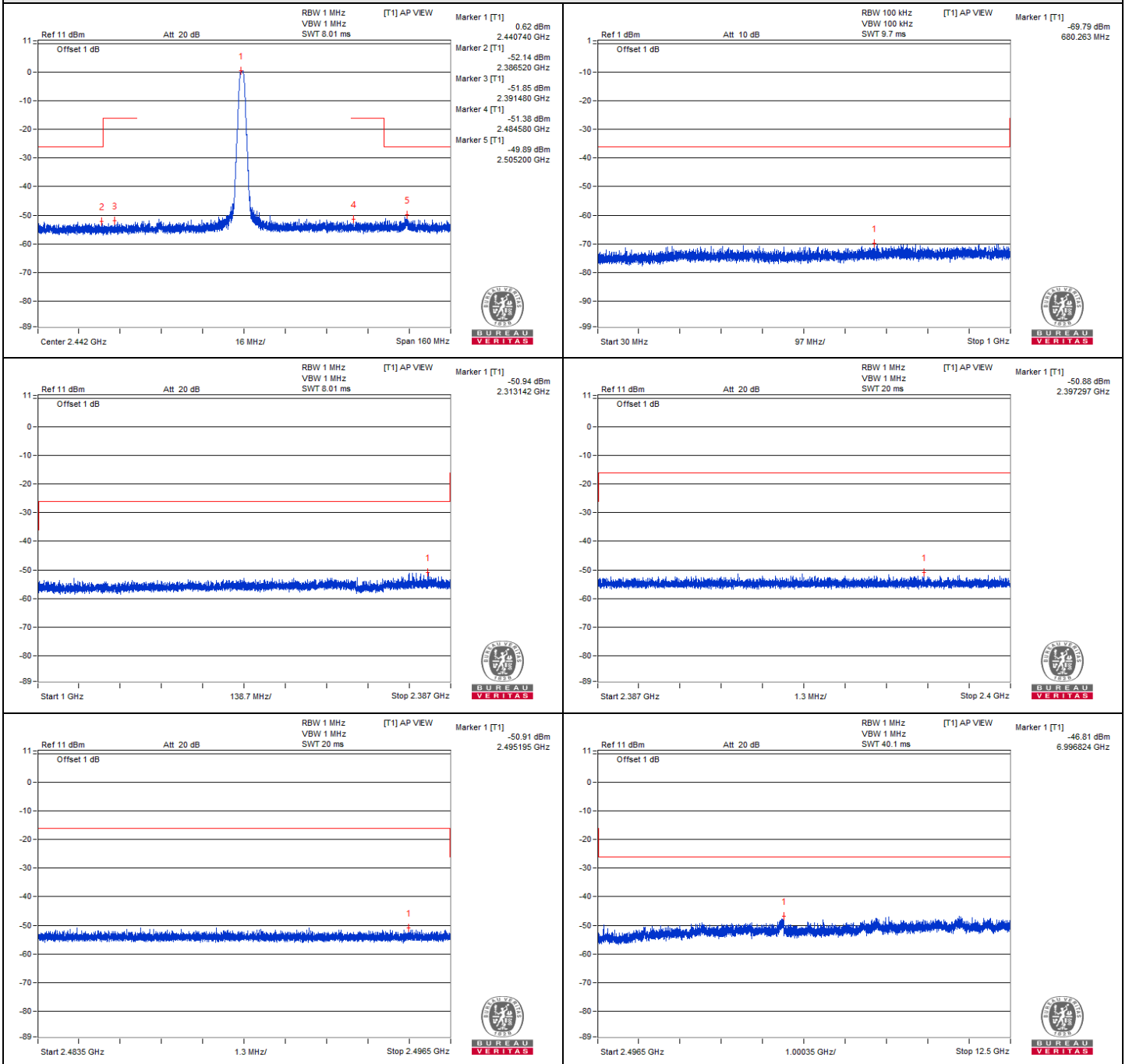
CH 0 (2403MHz)

V<sub>min</sub>.



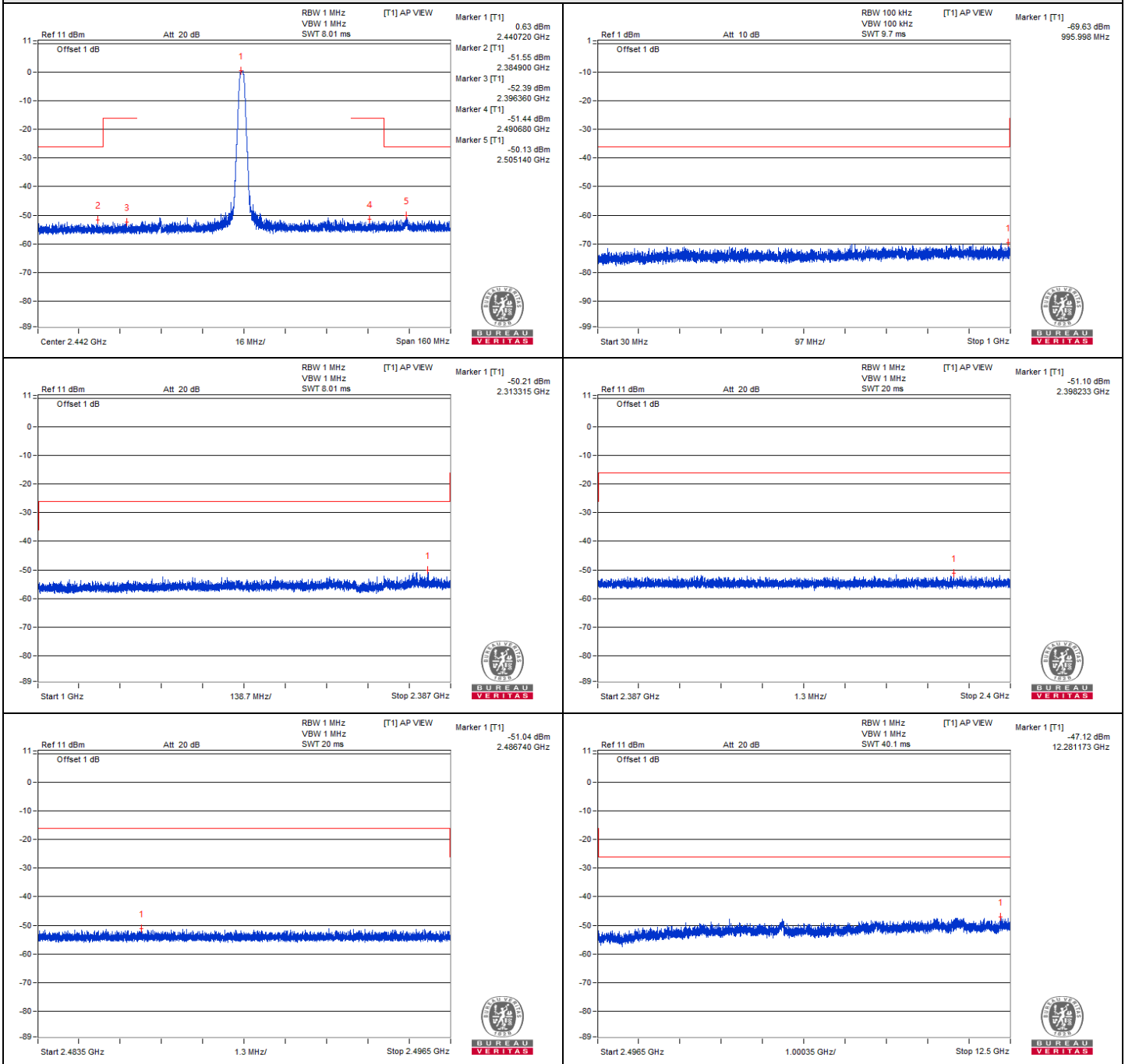
CH 0 (2403MHz)

V<sub>normal</sub>



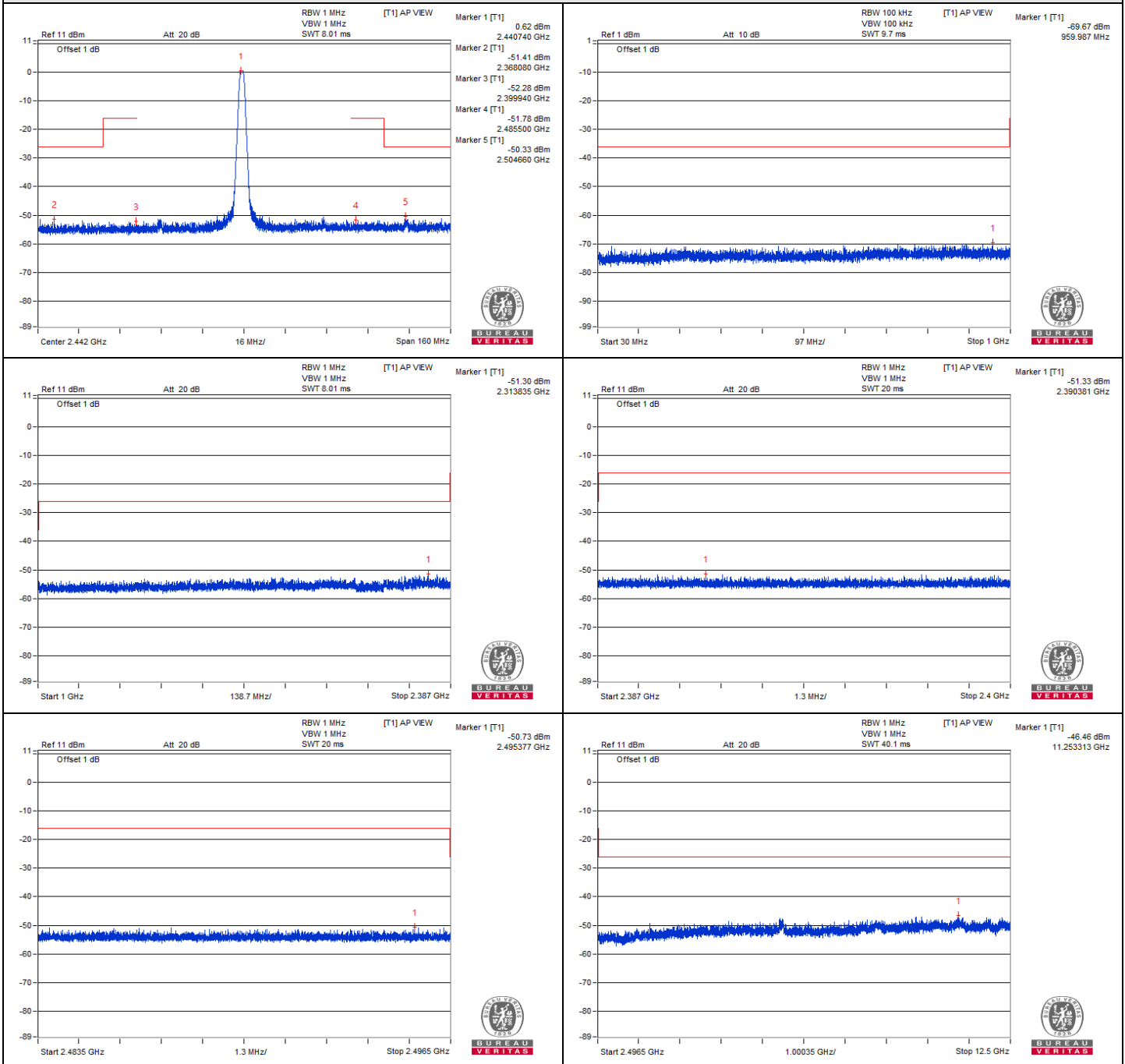
CH 38 (2441MHz)

V<sub>max</sub>.



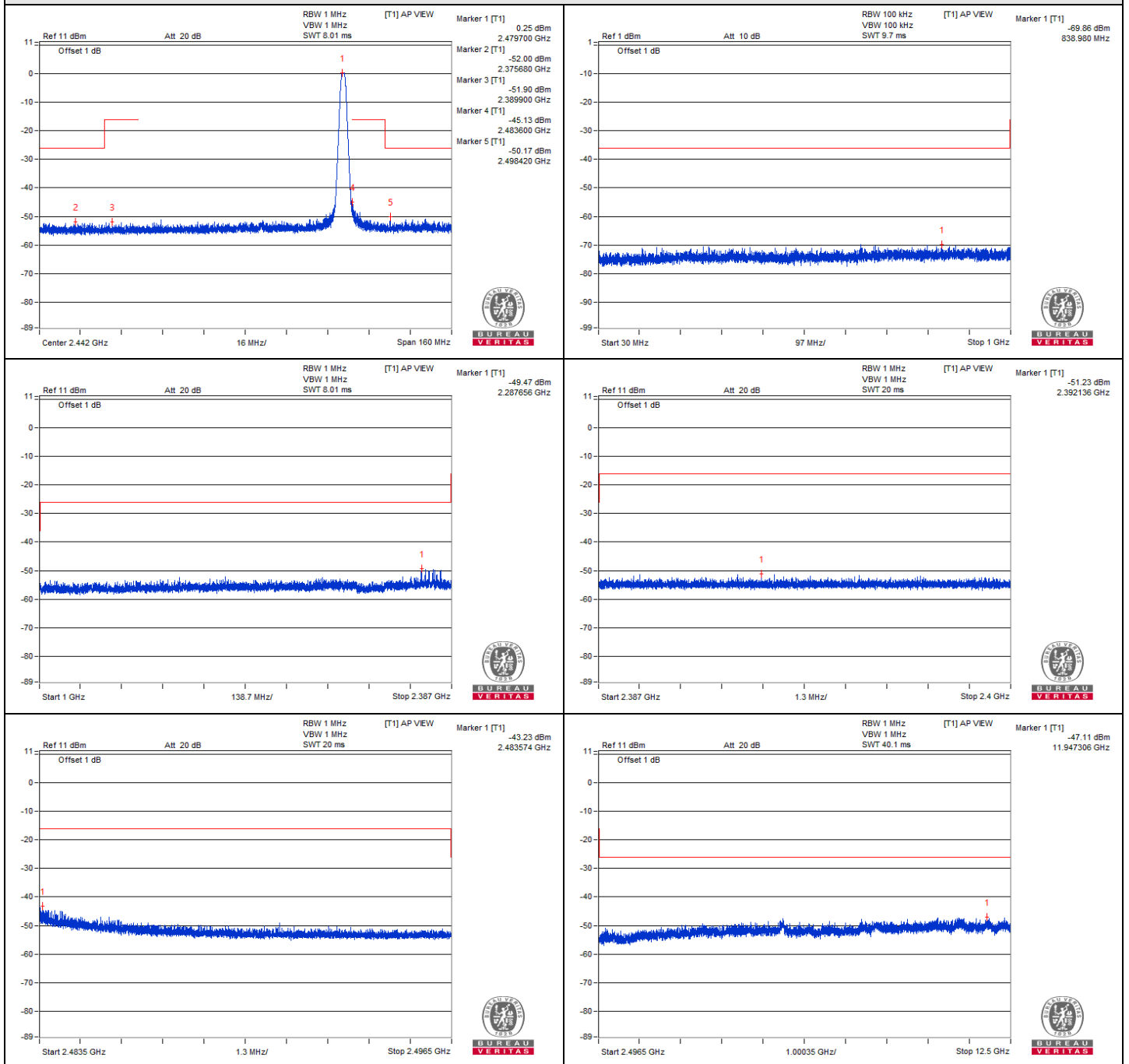
CH 38 (2441MHz)

V<sub>min</sub>.



CH 38 (2441MHz)

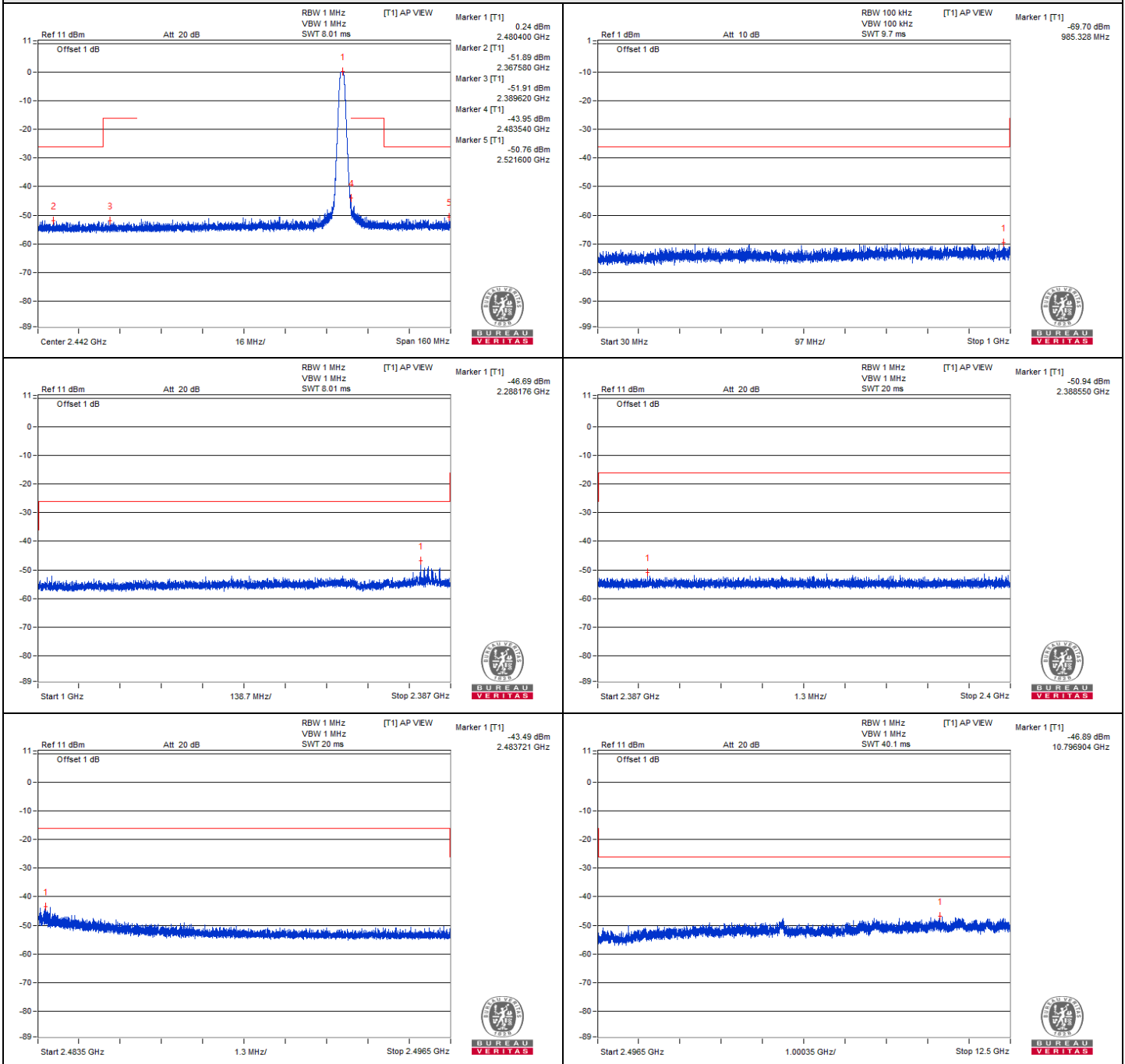
V<sub>normal</sub>



CH 77 (2480MHz)

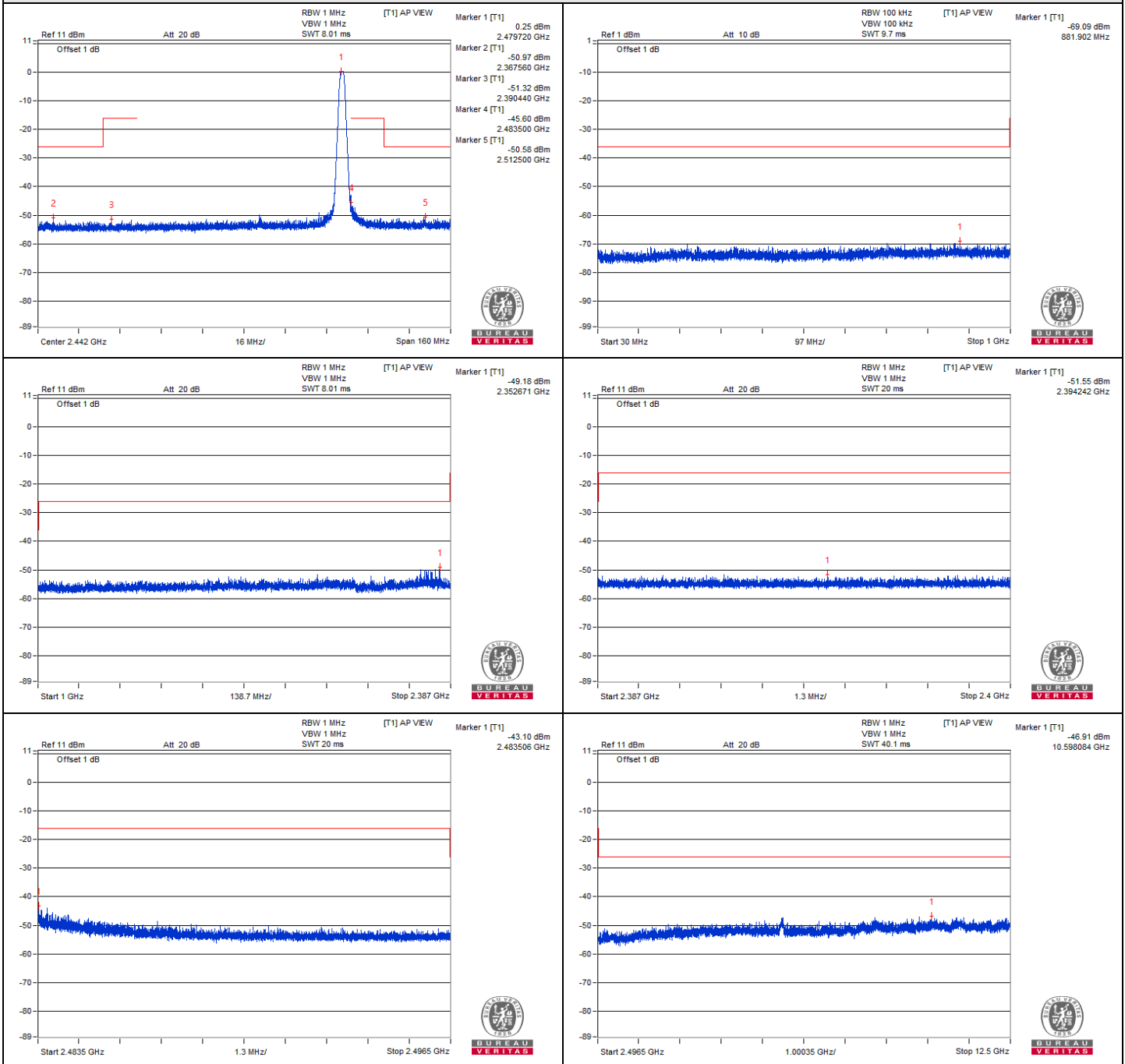


V<sub>max</sub>.



CH 77 (2480MHz)

V<sub>min</sub>.



CH 77 (2480MHz)

## 4.4 Antenna Power Measurement

### 4.4.1 Limits of Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DS	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 (8.185 mW/MHz ~ 81.846 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 26MHz
2. Occupied bandwidth is more than 26MHz and less than 40MHz
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  $A = \text{EIRP} / (2.14 \text{ dBi} + \text{Antenna Power (limit)})$ .
4. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

### 4.4.2 Test Setup



#### 4.4.3 Test Results

Voltage	Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)	Radiated RF Output Power (mW)
<b>V<sub>normal</sub></b>	<b>0</b>	<b>2403</b>	1.279	1.468
	<b>38</b>	<b>2441</b>	1.159	1.331
	<b>77</b>	<b>2480</b>	1.067	1.225
<b>V<sub>max.</sub></b>	<b>0</b>	<b>2403</b>	1.282	1.472
	<b>38</b>	<b>2441</b>	1.125	1.292
	<b>77</b>	<b>2480</b>	1.081	1.241
<b>V<sub>min.</sub></b>	<b>0</b>	<b>2403</b>	<b>1.315</b>	<b>1.51</b>
	<b>38</b>	<b>2441</b>	1.191	1.367
	<b>77</b>	<b>2480</b>	1.019	1.17
<b>Max. Limit (mW)</b>			10	-
<b>Rated Power (mW)</b>			2	-
<b>Tolerance of Antenna Power (mW)</b>			0.4 ~ 2.4	-
<b>Max. EIRP Limit (mW)</b>			-	16.368

Note: 1. Antenna gain is 0.6 dBi.

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

3. Formula: Radiated RF output power = Conducted RF output power + Antenna gain

## 4.5 Spurious Emissions for Receiver

### 4.5.1 Limits of Spurious Emissions for Receiver

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

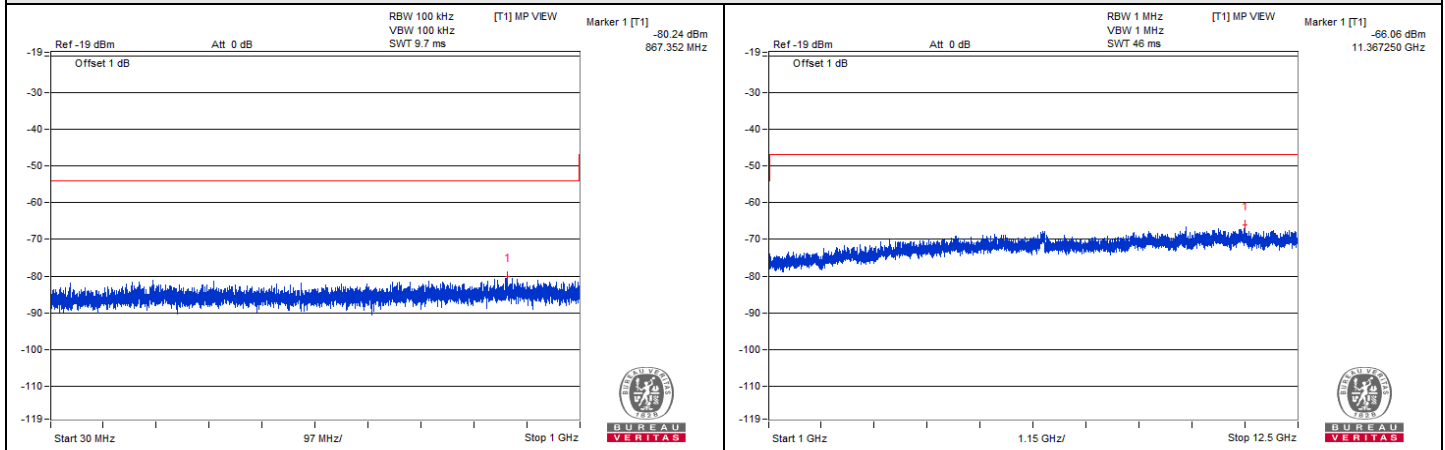
### 4.5.2 Test Setup



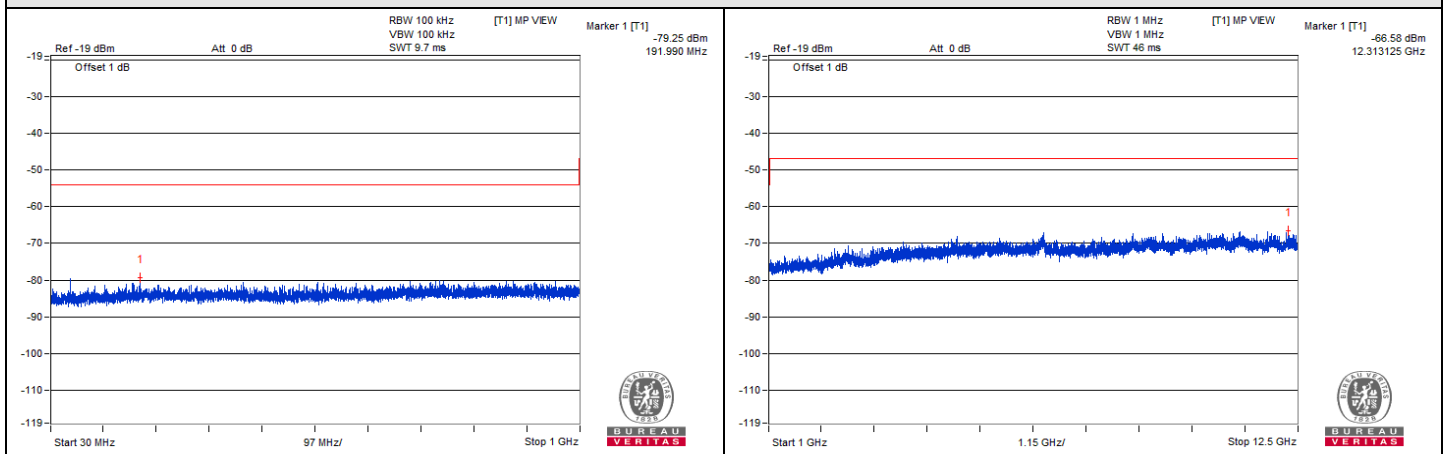
#### 4.5.3 Test Result

TEST CHANNEL		CH 0 (2403MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
$V_{normal}$	30MHz to 1000MHz	867.352	0.009462	4.0	PASS
	1000MHz to 12500MHz	11367.250	0.247742	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	191.990	0.011885	4.0	PASS
	1000MHz to 12500MHz	12313.125	0.219786	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	716.881	0.010209	4.0	PASS
	1000MHz to 12500MHz	12298.750	0.289068	20.0	PASS
TEST CHANNEL		CH 38 (2441MHz)			
$V_{normal}$	30MHz to 1000MHz	610.545	0.012162	4.0	PASS
	1000MHz to 12500MHz	11983.937	0.237137	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	178.895	0.009354	4.0	PASS
	1000MHz to 12500MHz	11378.750	0.222331	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	830.613	0.009397	4.0	PASS
	1000MHz to 12500MHz	5259.312	0.281838	20.0	PASS
TEST CHANNEL		CH 77 (2480MHz)			
$V_{normal}$	30MHz to 1000MHz	715.790	0.011912	4.0	PASS
	1000MHz to 12500MHz	11285.312	0.220293	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	746.951	0.011455	4.0	PASS
	1000MHz to 12500MHz	5260.750	0.245471	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	855.833	0.012794	4.0	PASS
	1000MHz to 12500MHz	9218.187	0.210378	20.0	PASS

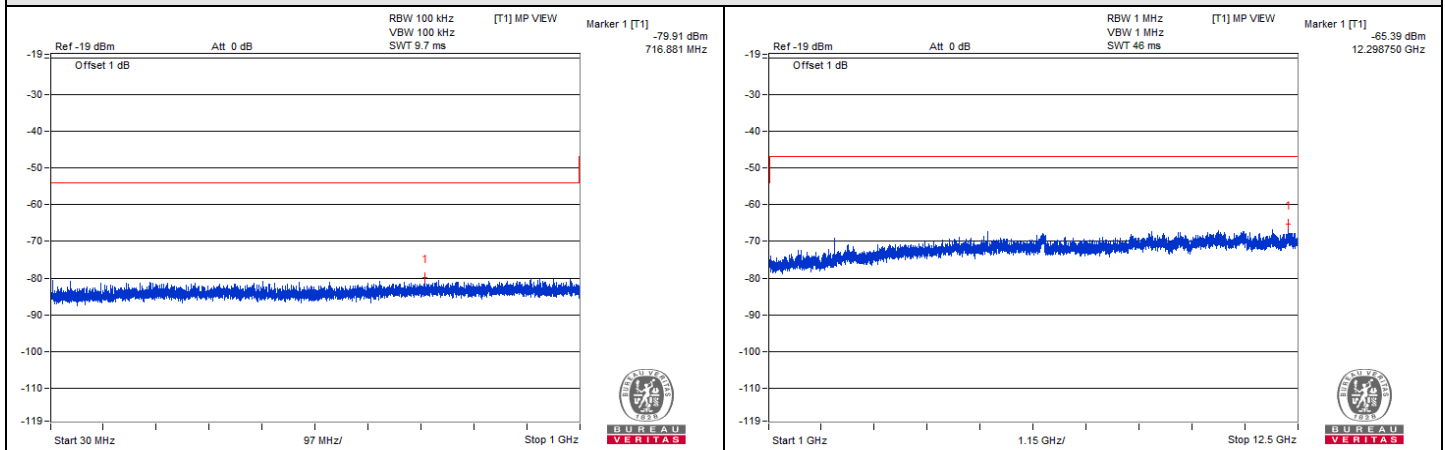
## V<sub>normal</sub>



## V<sub>max</sub>

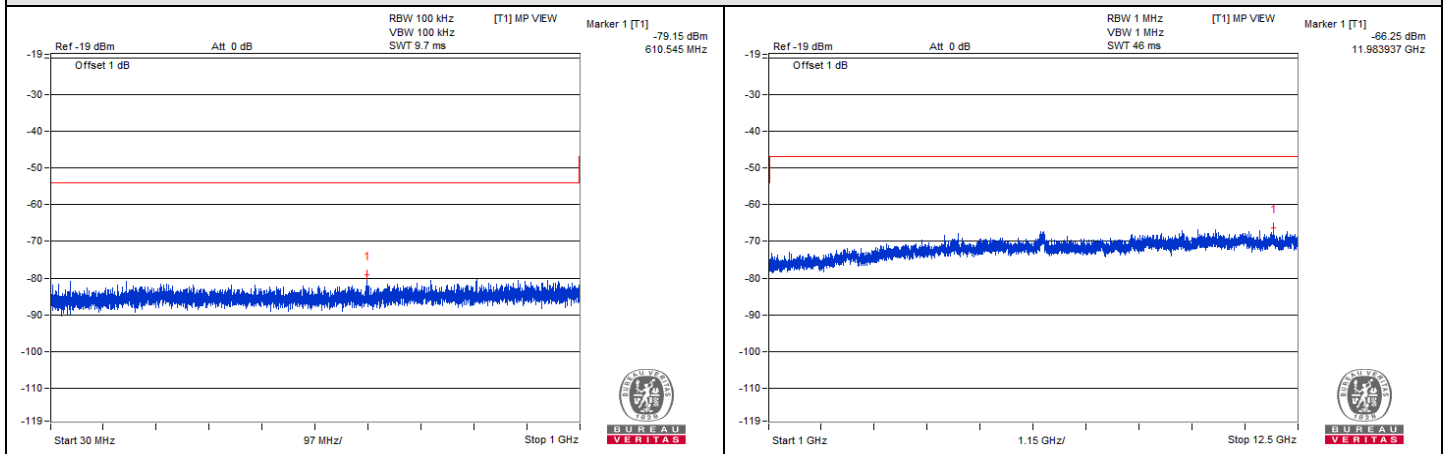


## V<sub>min</sub>

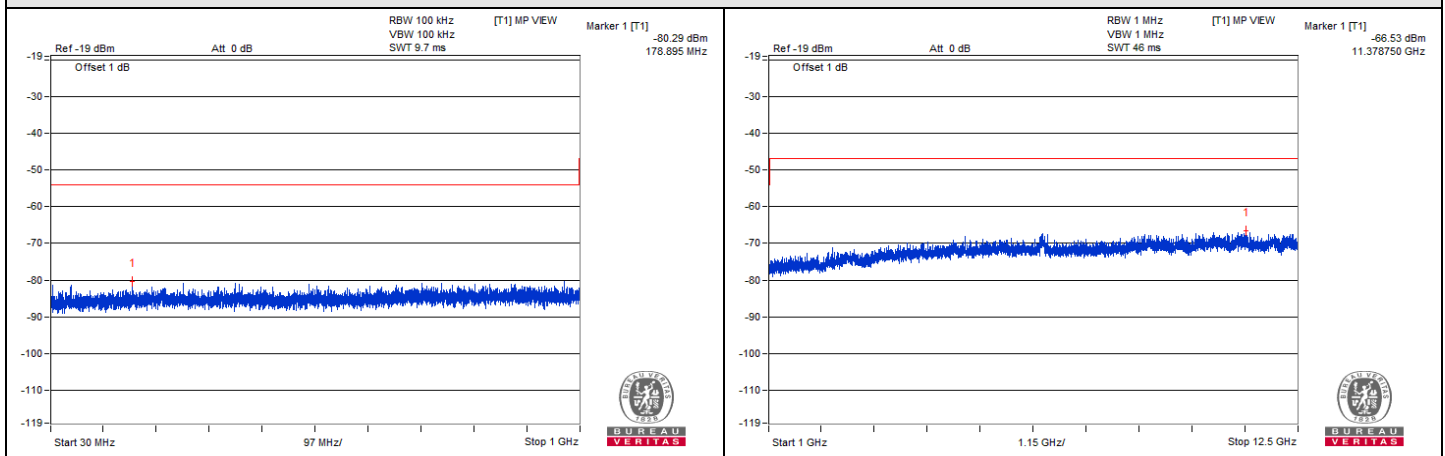


CH 0 (2403MHz)

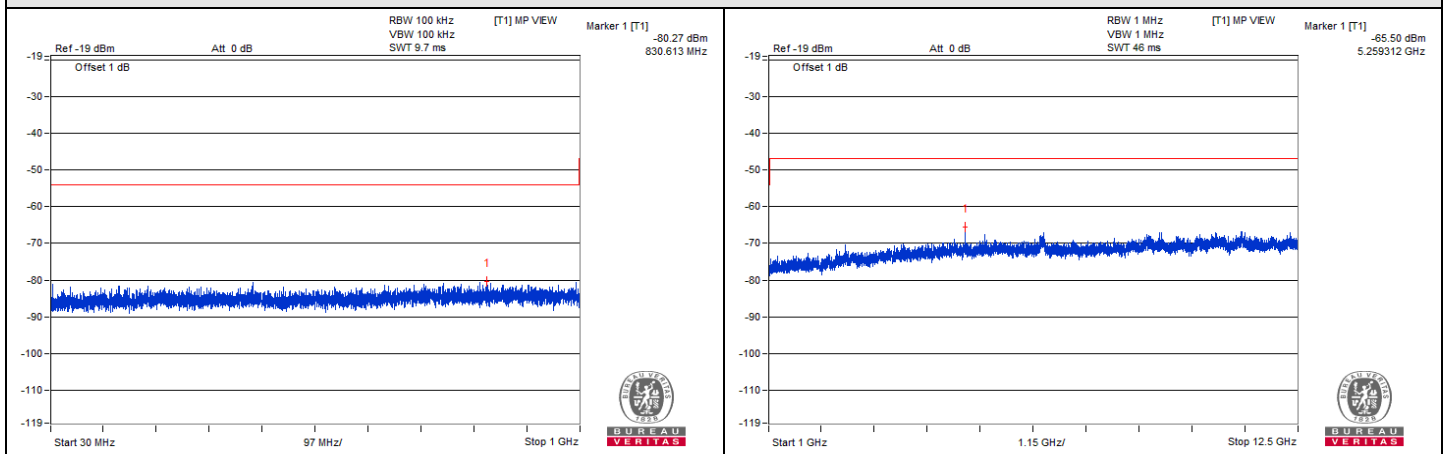
## V<sub>normal</sub>



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



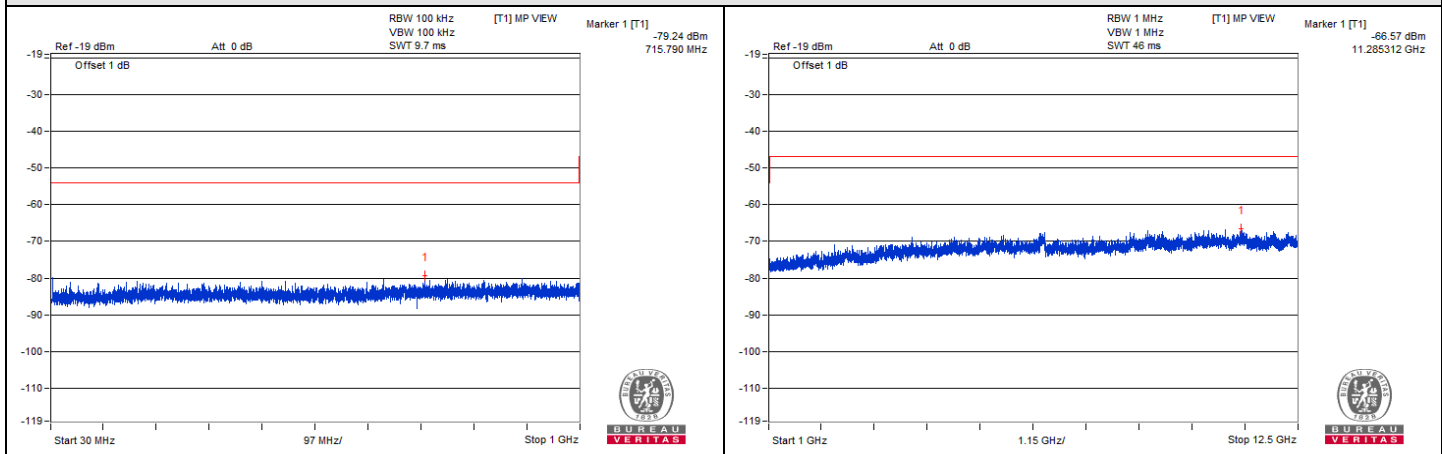
## V<sub>min.</sub>



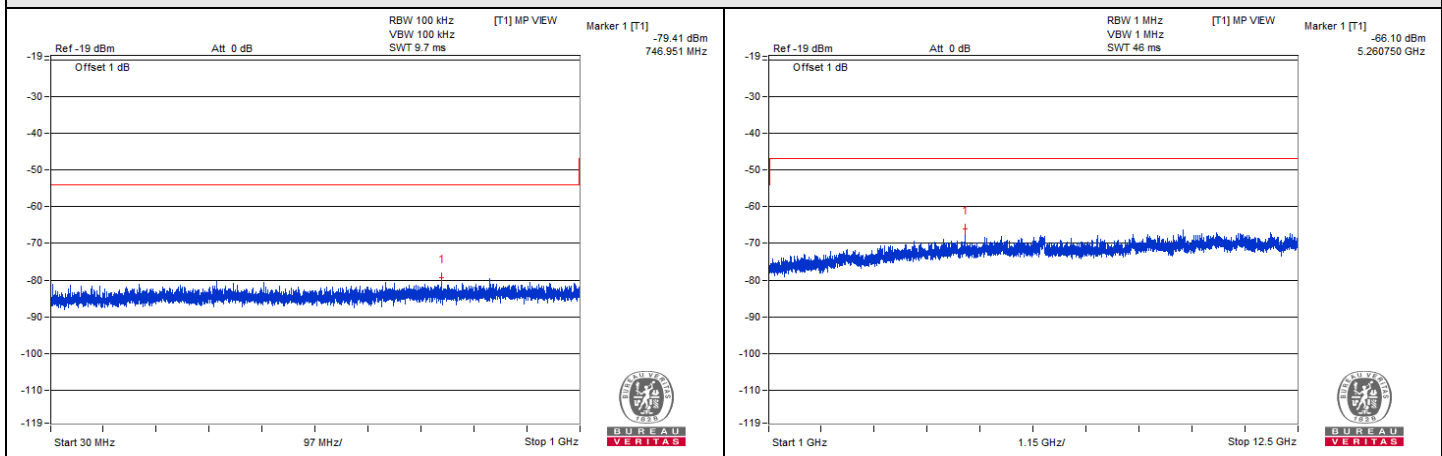
CH 38 (2441MHz)



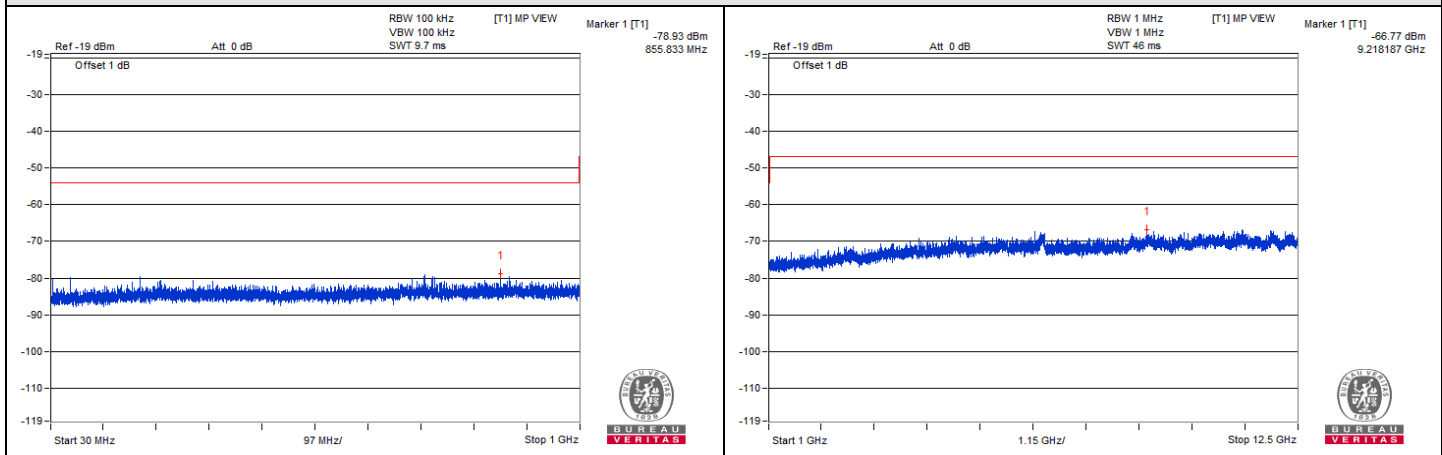
## V<sub>normal</sub>



## V<sub>max</sub>



## V<sub>min</sub>



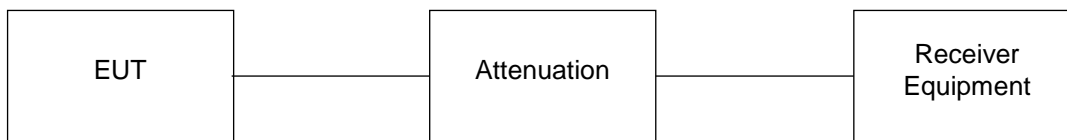
CH 77 (2480MHz)

## 4.6 Interference Prevention Function

### 4.6.1 Limits of Interference Prevention Function

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

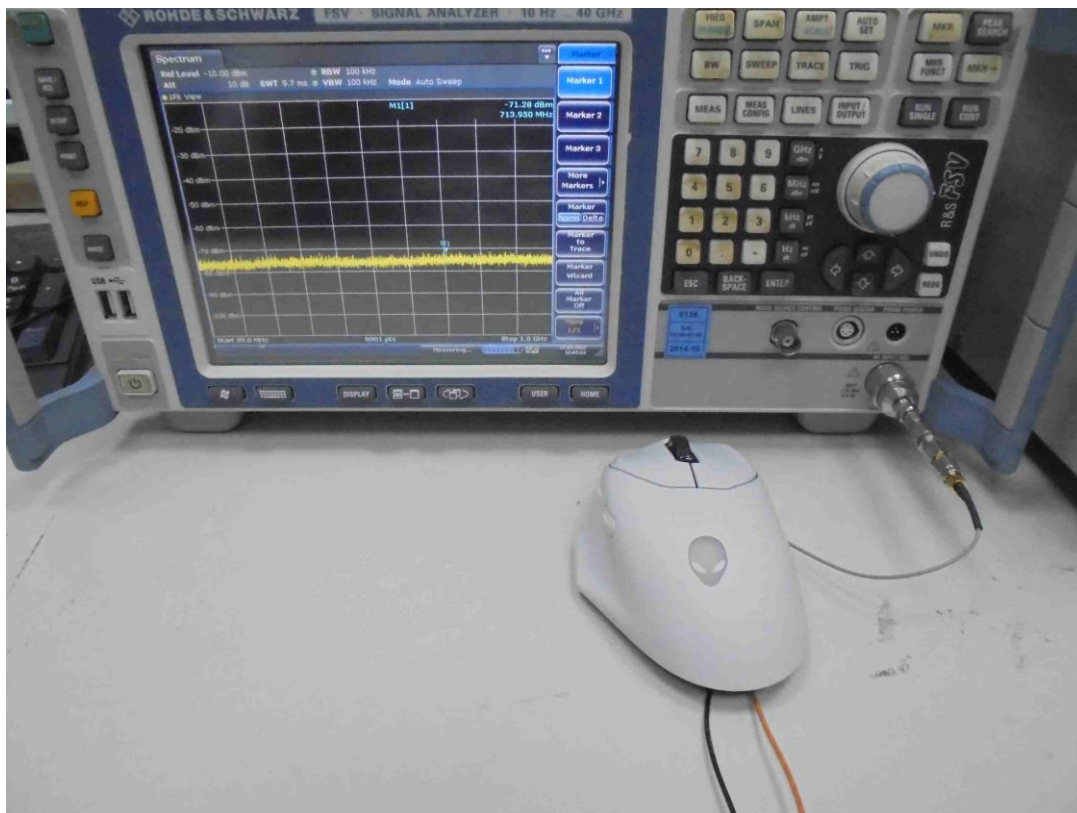
### 4.6.2 Test Setup



### 4.6.3 Test Results

Link Mode	Test Result
Normal	Pass

## 5 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.

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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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