

Radio Test Report (For 802.15.4)

Report No.: RJCDBM-WTW-P22030865-1

Test Model: MGM240P22A

Received Date: Mar. 22, 2022

Test Date: Apr. 19 ~ May 09, 2022

Issued Date: Jun. 23, 2022

Applicant: Silicon Laboratories Finland Oy

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Release Control Record

Issue No.	Description	Date Issued
RJCDBM-WTW-P22030865-1	Original release	Jun. 23, 2022

1 Certificate of Conformity

Product: Bluetooth Low Energy and 802.15.4 wireless radio module

Brand: Silicon Labs

Test Model: MGM240P22A

Sample Status: Engineering samples fully representing the production modules

Applicant: Silicon Laboratories Finland Oy

Test Date: Apr. 19 ~ May 09, 2022

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 : Celine Chou , **Date:** Jun. 23, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Jun. 23, 2022
Jeremy Lin / 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)
General Provisions				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.3	Spurious emissions	C
Transmitting Equipment				
F	3.2 (2)	4.4	Antenna power	C
--	--	--	SAR	NA
Transmitting Antenna				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
Receiving Equipment				
G	3.3 (1)	4.5	Spurious emissions of receiver	C
--	--	--	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5MHz				
--	3.7 (1)	3.4	Radio 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	C
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	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)	4.6	Interference Prevention Function	C

Note:

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

2.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration	Calibration Authority	Cal. Method
Spectrum Analyzer / KEYSIGHT	N9020B	MY60110462	Dec. 21, 2021	Dec. 20, 2022	ETC	c)
Signal Generator / Anritsu	E4438C	MY49071692	Nov. 09, 2021	Nov. 08, 2022	ETC	c)
Power Meter / Anritsu	ML2495A	1232003	Jan. 09, 2022	Jan. 08, 2023	ETC	c)
Power Sensor / Anritsu	MA2411B	1207333	Jan. 09, 2022	Jan. 08, 2023	ETC	c)
Power Splitter / Marvelous Microwave Inc.	MVE8546	20161123081	Jan. 12, 2022	Jan. 11, 2023	BV CPS E&E	d)
DC Power Supply / Keysight	U8002A	MY56330015	Note 3	Note 3	BV CPS E&E	d)
True RMS Clamp Meter / Fluke	325	31130711WS	Jun. 02, 2021	Jun. 01, 2022	ETC	c)

Note:

1. 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) of the Radio Law.
- 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).

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

3. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.

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
Occupied Bandwidth	$\pm 491.896\text{Hz}$
Spurious emissions	$\pm 2.208\text{dB}$
Output power density	$\pm 2.889\text{dB}$
Out of band radiated power	$\pm 3.93\text{dB}$
Frequency Tolerance	$\pm 6805.18\text{Hz}$

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

2.3 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Bluetooth Low Energy and 802.15.4 wireless radio module
Brand	Silicon Labs
Test Model	MGM240P22A
Status of EUT	Engineering samples fully representing the production modules
Nominal Voltage	1.8Vdc, 3.0Vdc, 3.8Vdc
Modulation Type	O-QPSK
Transfer Rate	250kbps
Operating Frequency	2405 ~ 2480MHz
Number of Channel	16
Rated RF Output Power	Refer to note
Conducted RF Output Power	Refer to note
Radiated RF Output Power	Refer to note
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. The antenna information is listed as below.

Type	Connector	Gain (dBi)
Integral antenna	NA	1.82

* 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.

2. The power table as below:

Rated power (mW)	Conducted RF output power (mW)	Radiated RF output power (mW)
10.0	9.750	14.825

3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
11	2405	15	2425	19	2445	23	2465
12	2410	16	2430	20	2450	24	2470
13	2415	17	2435	21	2455	25	2475
14	2420	18	2440	22	2460	26	2480

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 (TERA TERM v4.79) provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power Setting
11	98
18	98
26	98

3.3 Test Conditions

Test Conditions	Voltage (Vdc)
Vnormal	3.00
Vmax.	3.80
Vmin.	1.80

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.

Test Item	Environmental Conditions	Test Engineer
Frequency Tolerance	25 deg.C, 60 % RH	Alan Wu
Occupied Bandwidth (99% power bandwidth)	25 deg.C, 60 % RH	Alan Wu
Spurious Emissions for Transmitter	25 deg.C, 60 % RH	Alan Wu
Antenna Power	25 deg.C, 60 % RH	Alan Wu
Spurious Emissions for Receiver	25 deg.C, 60 % RH	Alan Wu

3.4 Assembly

The EUT is constructed as a standalone unit. The modulation section, preamplifier, RF component etc, are shielded under a metal housing, which is soldered to the PCB and cannot be detached easily.

3.5 Antenna Specifications

3.5.1 Antenna Gain

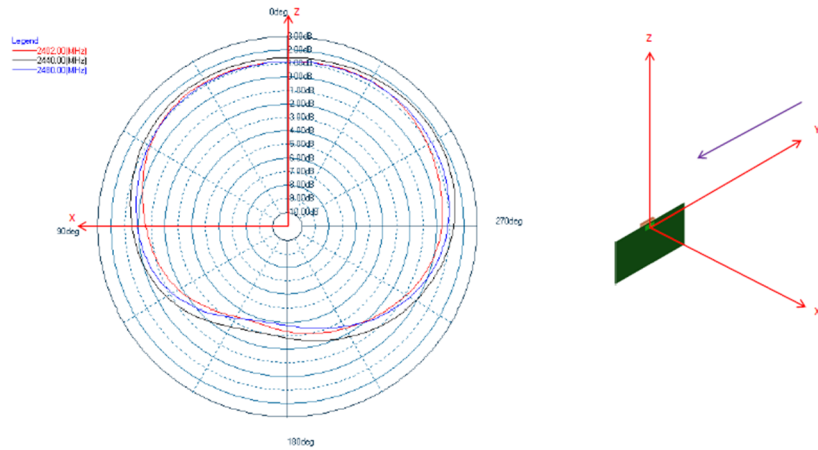
Type	Connector	Gain (dBi)
Integral antenna	NA	1.82

* 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.

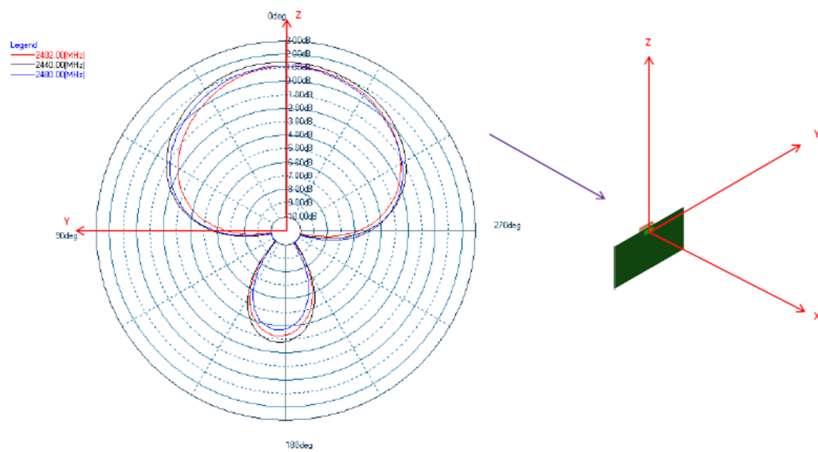
3.5.2 Antenna Pattern

Antenna Pattern

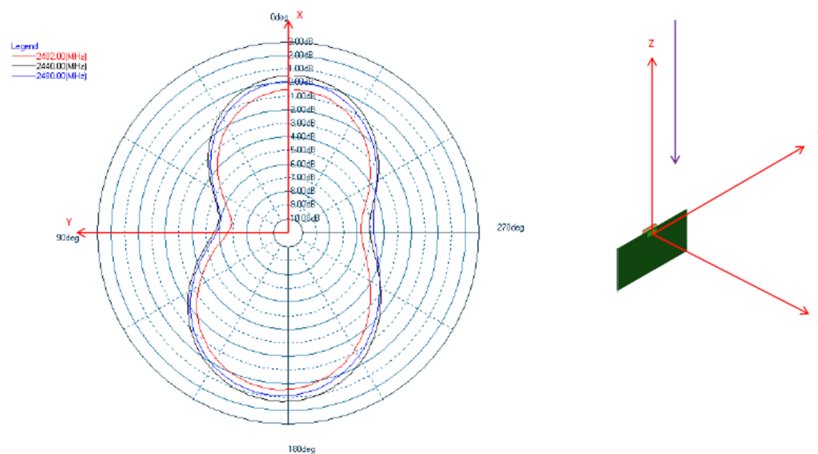
Phi0 Gain cut (dBi)



Phi90 Gain cut



Theta90 Gain cut



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)	V _{normal}		V _{max.}		V _{min.}	
		Carrier Frequency (MHz)	Frequency Tolerance (ppm)	Carrier Frequency (MHz)	Frequency Tolerance (ppm)	Carrier Frequency (MHz)	Frequency Tolerance (ppm)
11	2405	2404.970000	-12.474	2404.970000	-12.474	2404.970000	-12.474
18	2440	2439.968800	-12.786	2439.968800	-12.786	2439.968800	-12.786
26	2480	2479.968000	-12.903	2479.968000	-12.903	2479.968000	-12.903

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

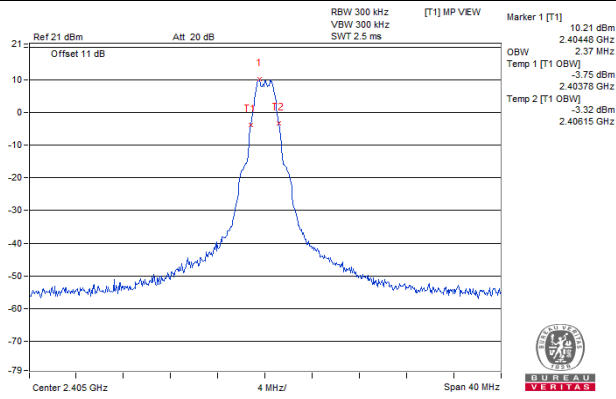


4.2.3 Test Results

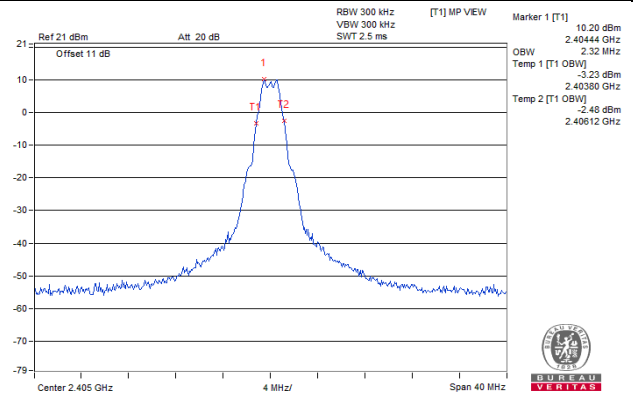
Channel	Frequency (MHz)	V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
11	2405	2.37	2.32	2.56
18	2440	2.48	2.48	2.48
26	2480	2.40	2.40	2.40

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

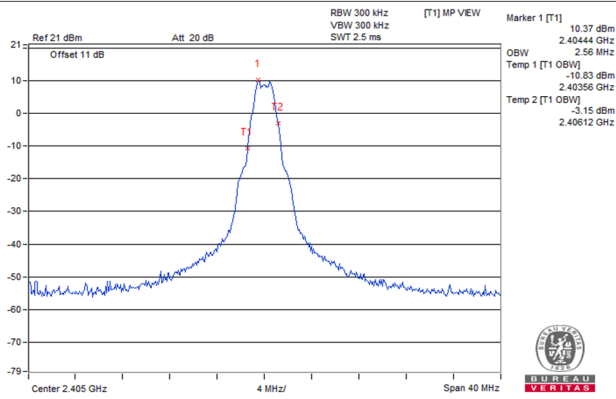
V_{normal}



V_{max.}

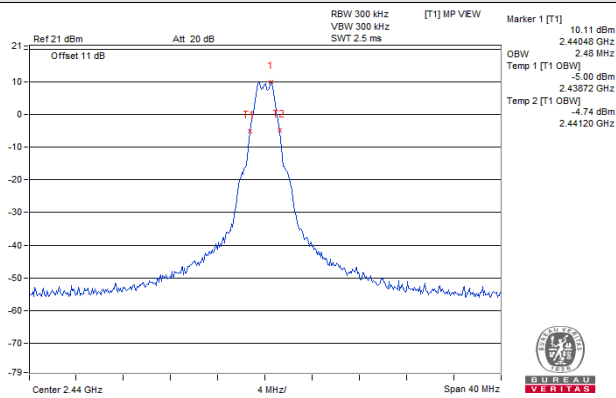


V_{min.}

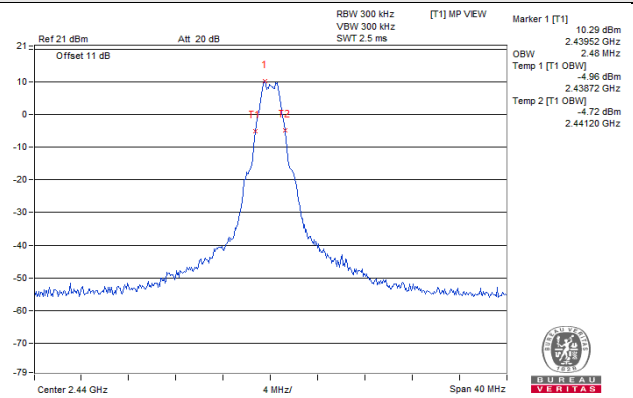


CH 11 (2405MHz)

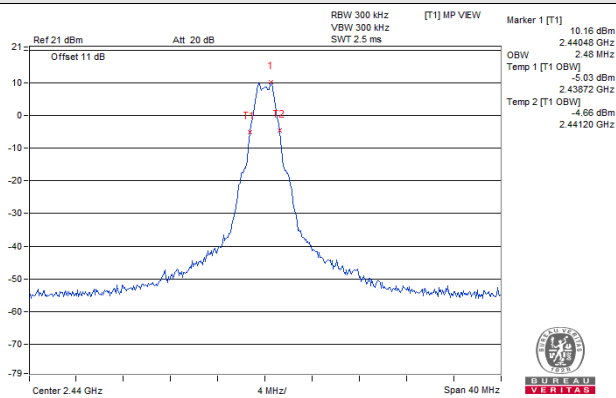
V_{normal}



V_{max.}

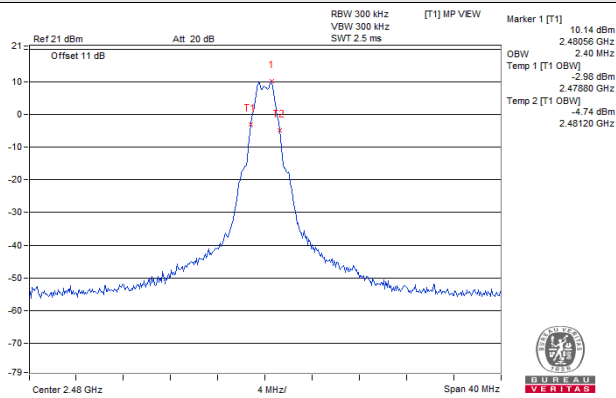


V_{min.}

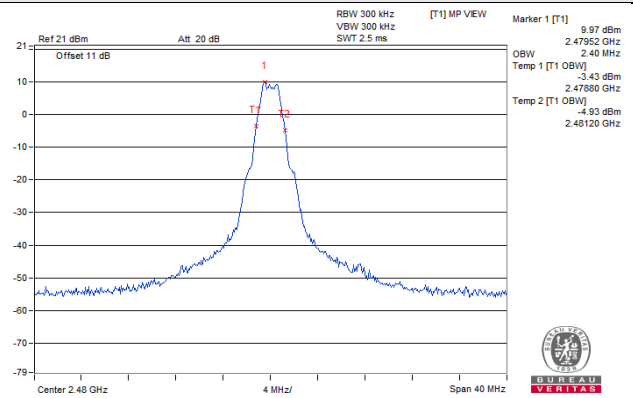


CH 18 (2440MHz)

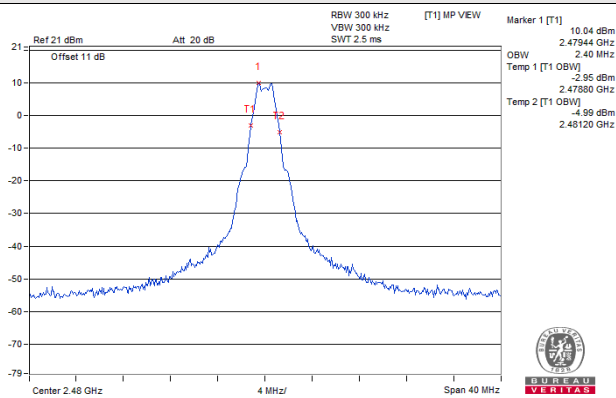
V_{normal}



V_{max.}



V_{min.}



CH 26 (2480MHz)

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

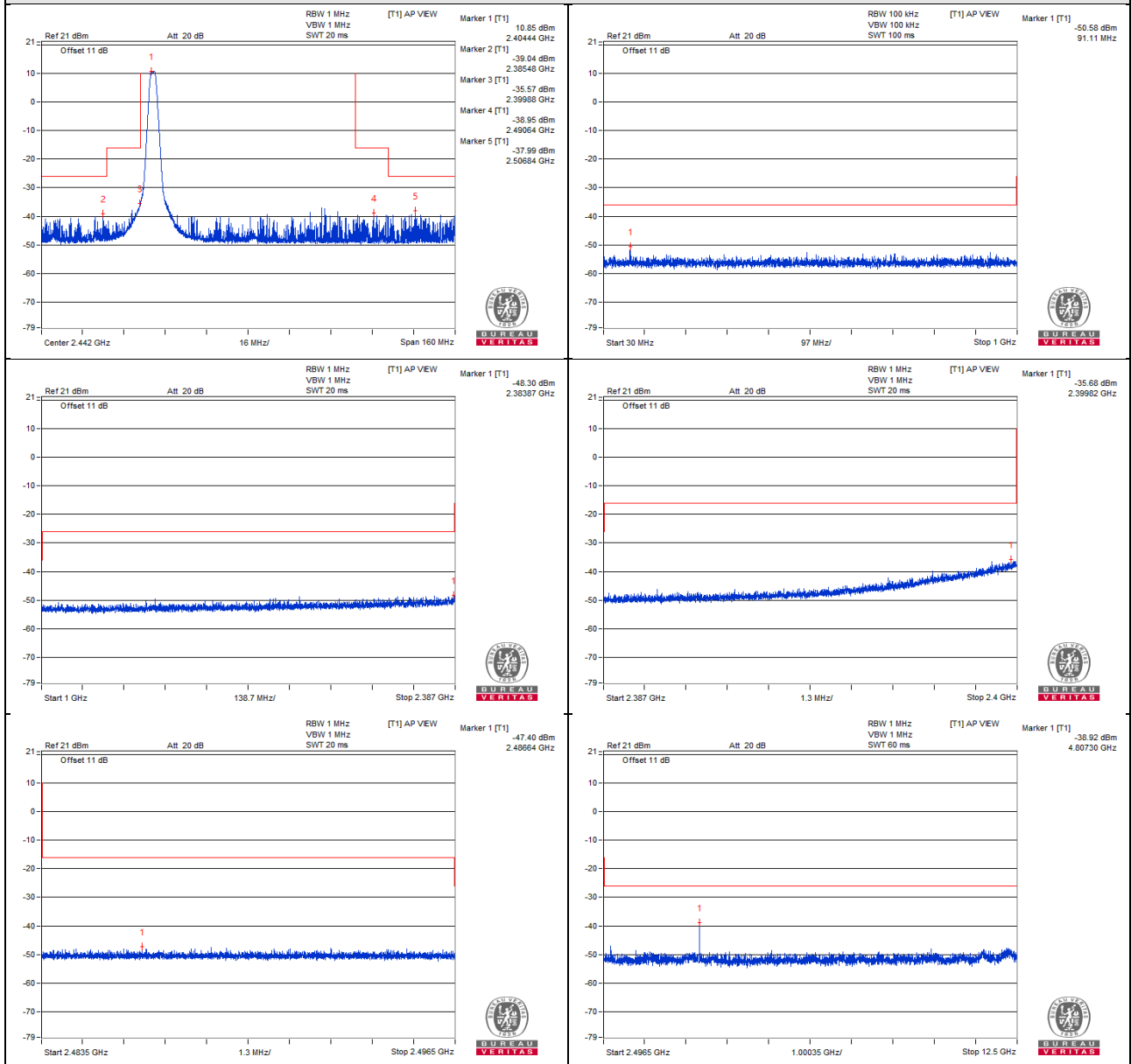
Test Channel		CH 11 (2405MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	91.110	0.008750	0.25	Pass
	1000 to 2387	2383.870	0.014791	2.5	Pass
	2387 to 2400	2399.820	0.270396	25	Pass
	2483.5 to 2496.5	2486.640	0.018197	25	Pass
	2496.5 to 12500	4807.300	0.128233	2.5	Pass
V_{max.}	30 to 1000	91.110	0.005508	0.25	Pass
	1000 to 2387	2340.180	0.017100	2.5	Pass
	2387 to 2400	2399.900	0.311889	25	Pass
	2483.5 to 2496.5	2487.020	0.016943	25	Pass
	2496.5 to 12500	4807.300	0.144212	2.5	Pass
V_{min.}	30 to 1000	90.140	0.009057	0.25	Pass
	1000 to 2387	2357.170	0.013583	2.5	Pass
	2387 to 2400	2399.930	0.234423	25	Pass
	2483.5 to 2496.5	2487.360	0.018493	25	Pass
	2496.5 to 12500	4809.800	0.130317	2.5	Pass

Test Channel		CH 18 (2440MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	126.270	0.007430	0.25	Pass
	1000 to 2387	2356.830	0.013932	2.5	Pass
	2387 to 2400	2388.560	0.017298	25	Pass
	2483.5 to 2496.5	2491.340	0.017338	25	Pass
	2496.5 to 12500	4882.330	0.096605	2.5	Pass
V_{max.}	30 to 1000	125.300	0.007516	0.25	Pass
	1000 to 2387	2356.480	0.014825	2.5	Pass
	2387 to 2400	2393.940	0.016711	25	Pass
	2483.5 to 2496.5	2490.790	0.017338	25	Pass
	2496.5 to 12500	4879.830	0.090157	2.5	Pass
V_{min.}	30 to 1000	126.270	0.007889	0.25	Pass
	1000 to 2387	2204.260	0.013335	2.5	Pass
	2387 to 2400	2392.110	0.017140	25	Pass
	2483.5 to 2496.5	2491.150	0.018197	25	Pass
	2496.5 to 12500	4879.830	0.094406	2.5	Pass

Test Channel		CH 26 (2480MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	165.310	0.011169	0.25	Pass
	1000 to 2387	2347.470	0.014859	2.5	Pass
	2387 to 2400	2395.320	0.022387	25	Pass
	2483.5 to 2496.5	2483.500	2.123244	25	Pass
	2496.5 to 12500	4959.860	0.059704	2.5	Pass
V_{max.}	30 to 1000	166.280	0.008551	0.25	Pass
	1000 to 2387	2278.810	0.014588	2.5	Pass
	2387 to 2400	2393.250	0.017620	25	Pass
	2483.5 to 2496.5	2483.530	2.094112	25	Pass
	2496.5 to 12500	4962.360	0.058210	2.5	Pass
V_{min.}	30 to 1000	165.310	0.011143	0.25	Pass
	1000 to 2387	2366.540	0.013996	2.5	Pass
	2387 to 2400	2396.660	0.016368	25	Pass
	2483.5 to 2496.5	2483.500	2.177710	25	Pass
	2496.5 to 12500	4959.860	0.058614	2.5	Pass

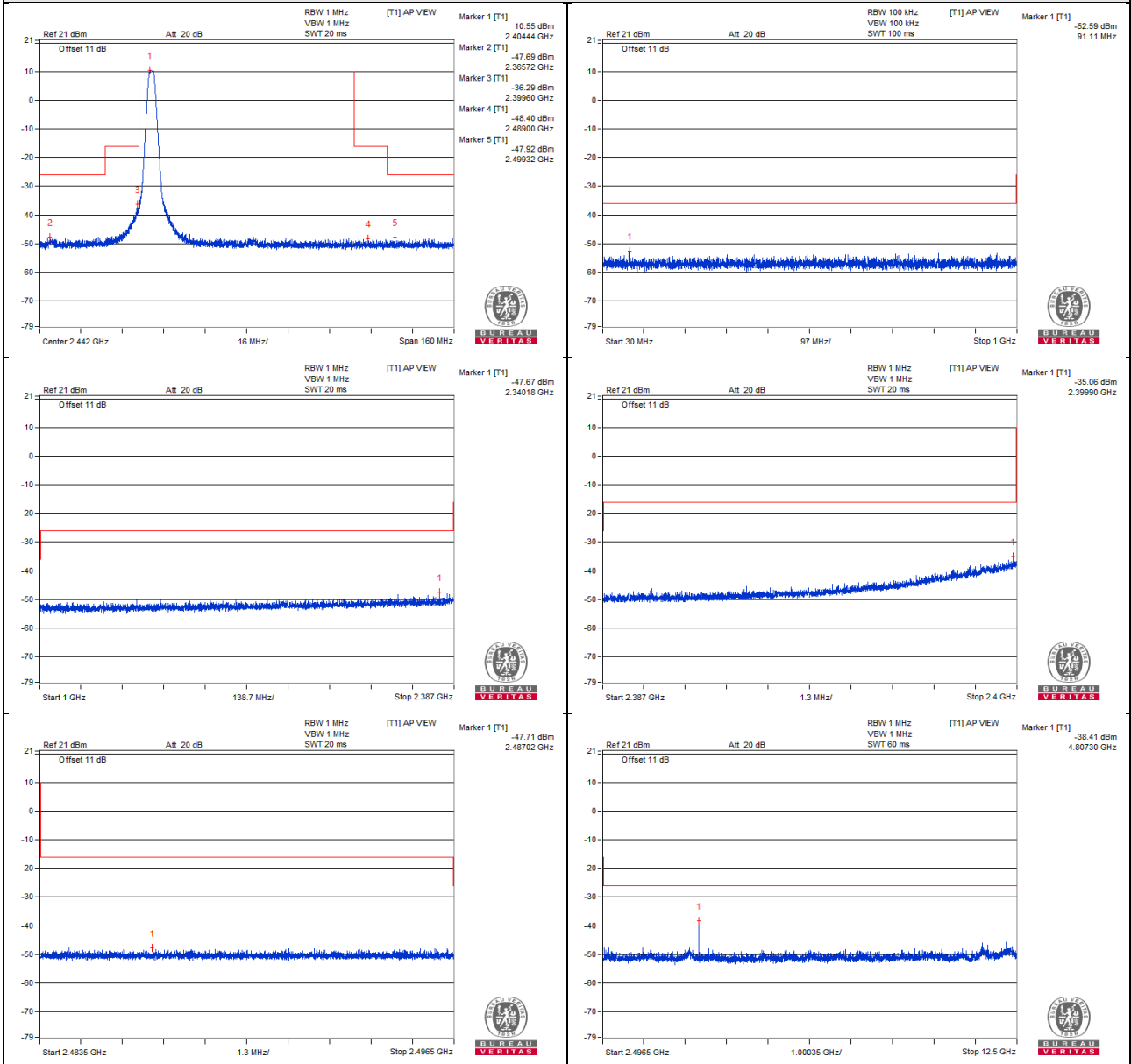
Note: The spectrum plots are attached on the following pages.

Vnormal



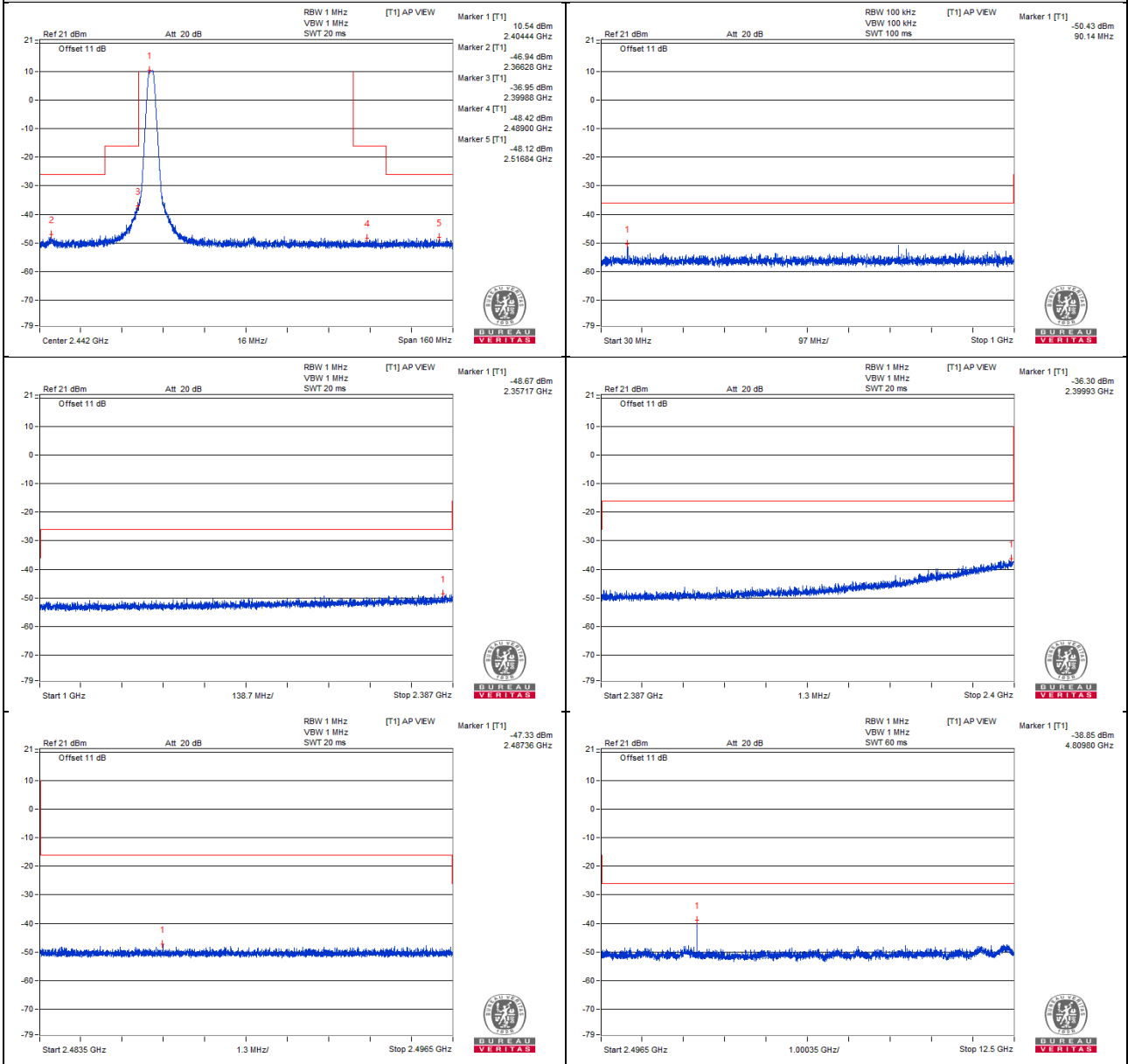
CH 11 (2405MHz)

V_{max}.



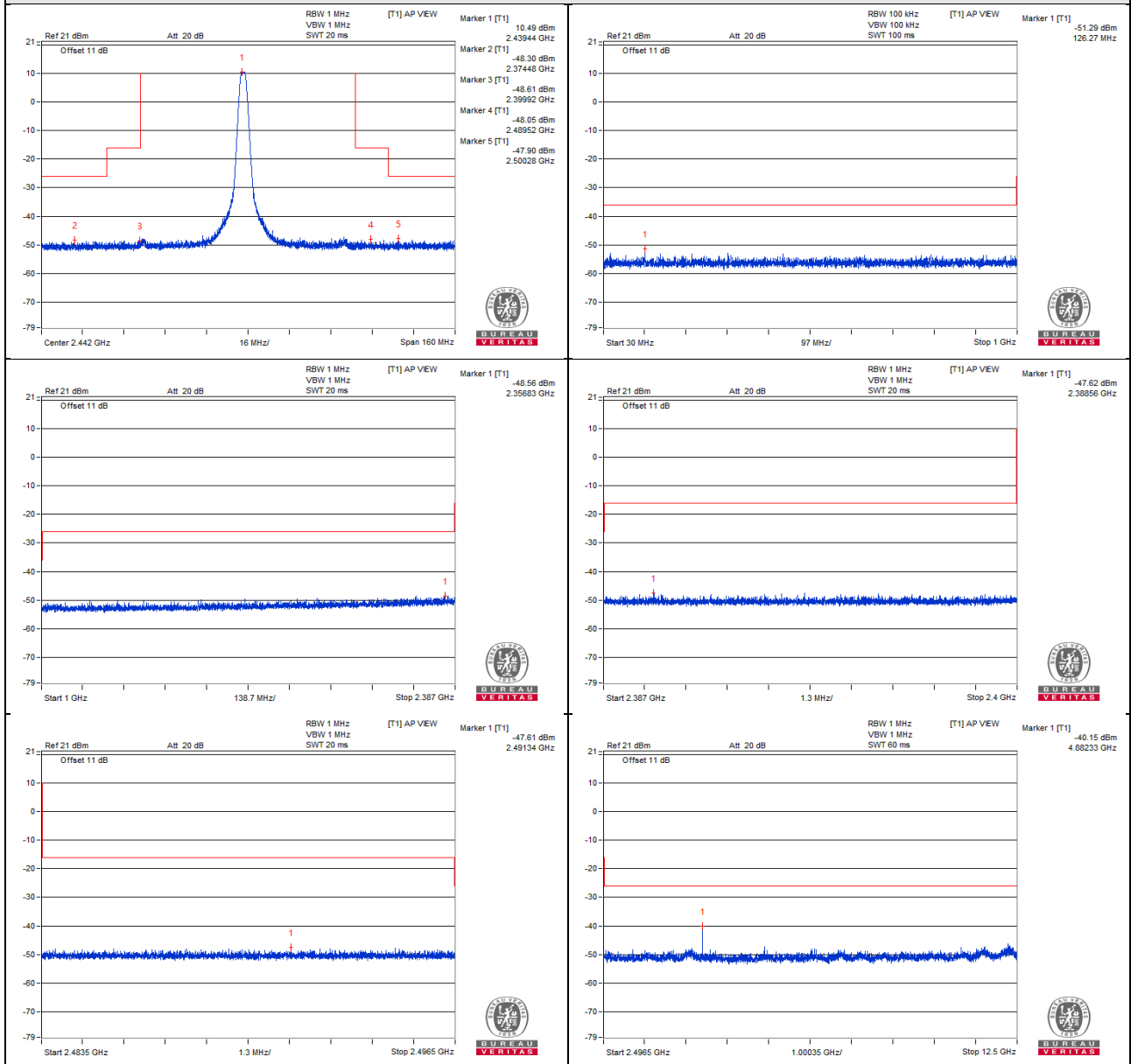
CH 11 (2405MHz)

V_{min}.



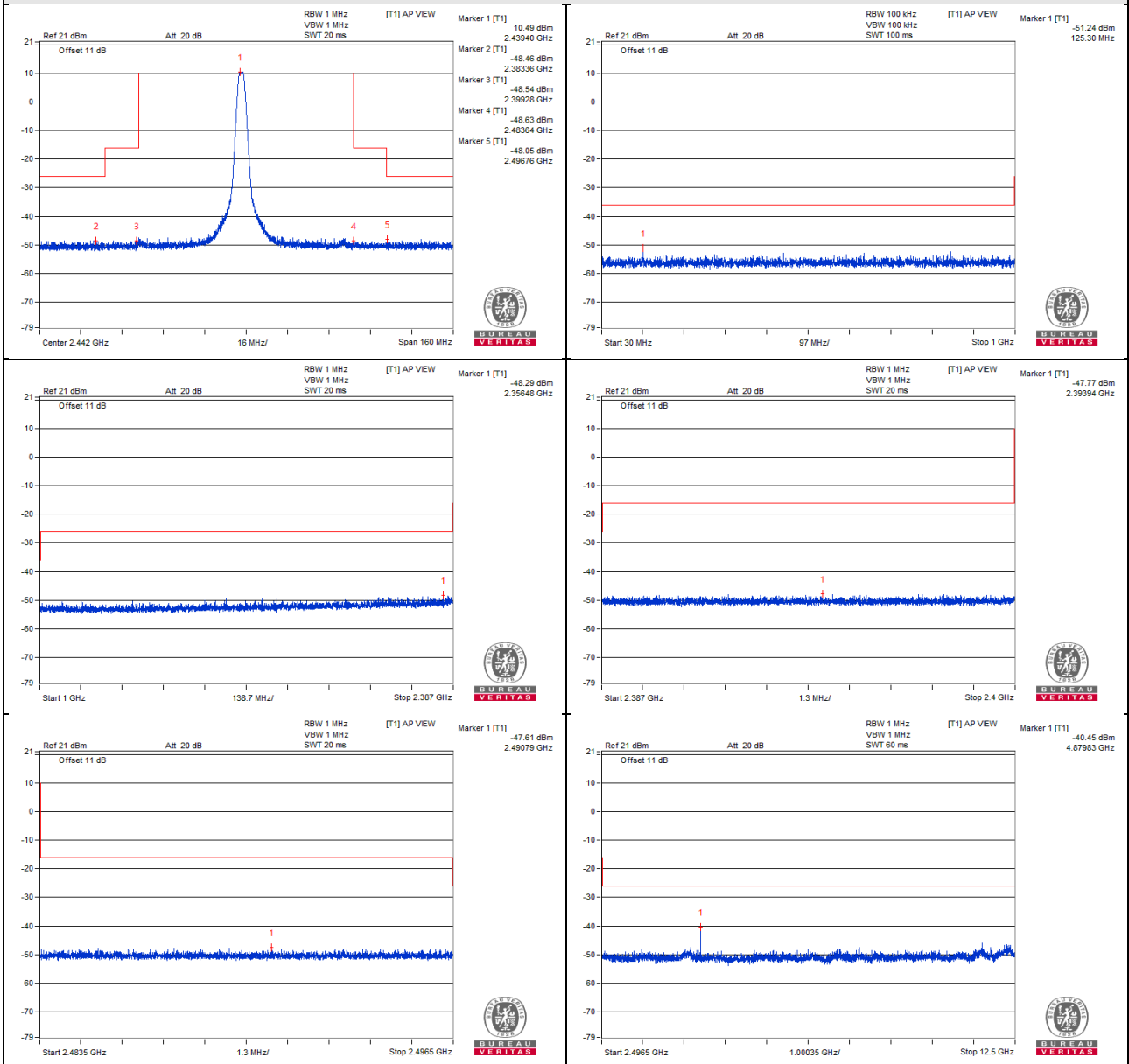
CH 11 (2405MHz)

Vnormal



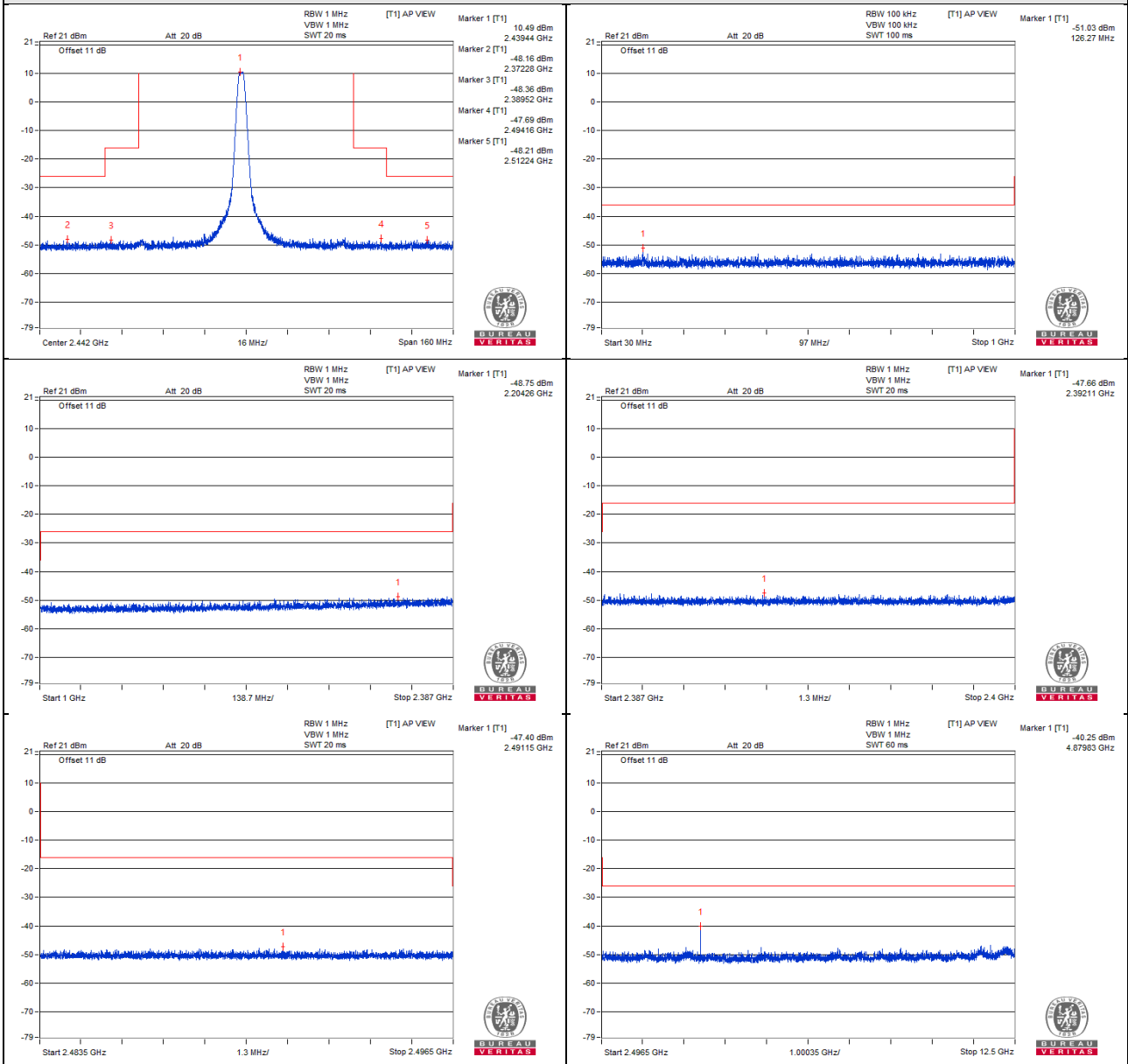
CH 18 (2440MHz)

V_{max}.



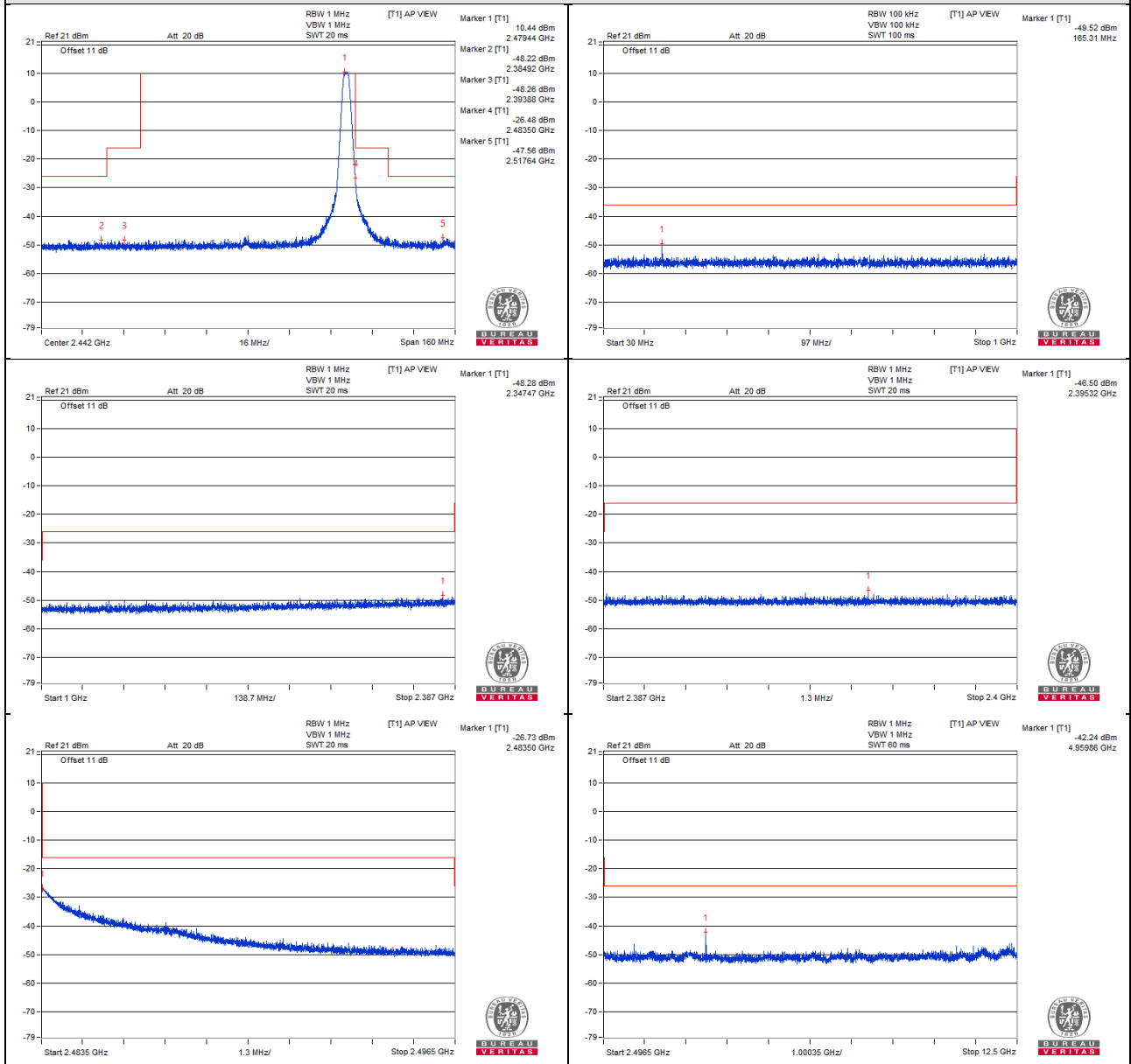
CH 18 (2440MHz)

V_{min}.



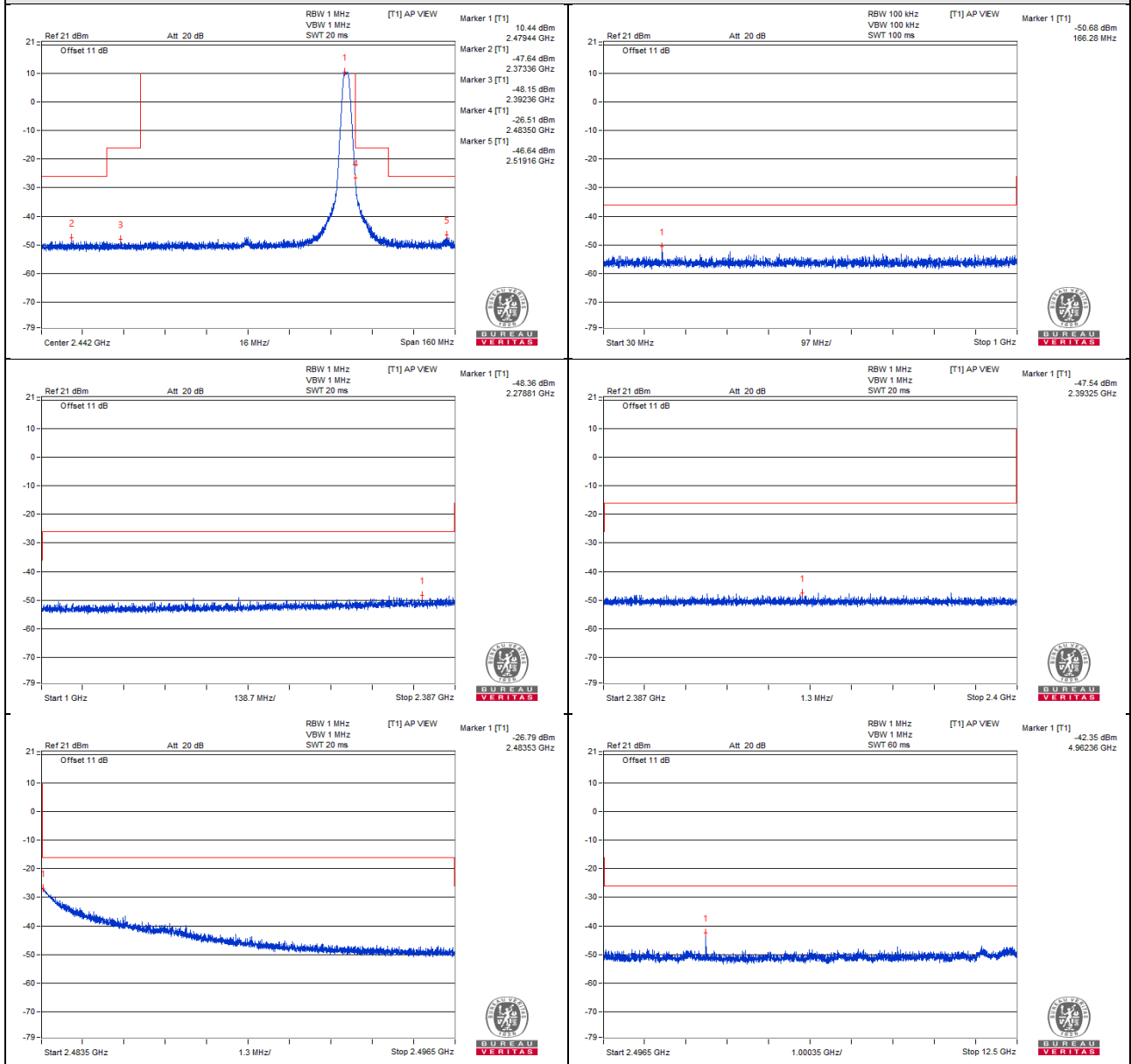
CH 18 (2440MHz)

Vnormal



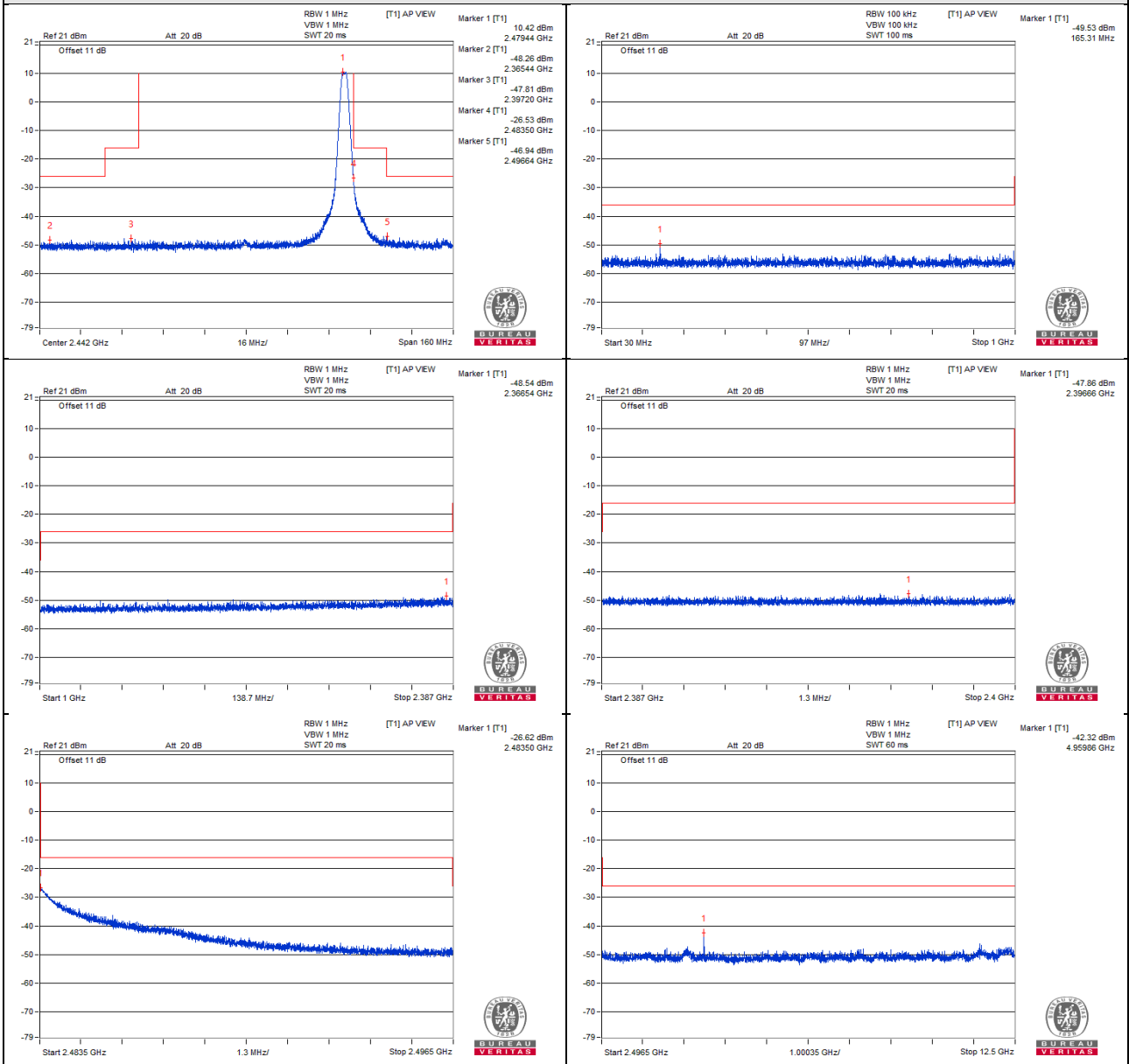
CH 26 (2480MHz)

V_{max}.



CH 26 (2480MHz)

V_{min}.



CH 26 (2480MHz)

4.4 Antenna Power Measurement

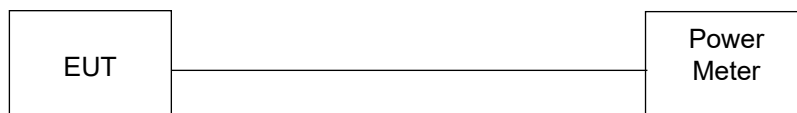
4.4.1 Limits of Antenna Power

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 (8.184 mW/MHz ~ 81.846 mW/MHz)
Other than the above	2400 – 2483.5 MHz	10 mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)
Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP Limit
DS	2471 – 2497 MHz	10mW/MHz	12.14 dBm/MHz (16.368 mW/MHz)

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

Test Voltage	Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)	Radiated RF Output Power (mW)
V_{normal}	11	2405	9.333	14.191
	18	2440	9.311	14.158
	26	2480	8.913	13.553
V_{max.}	11	2405	9.572	14.555
	18	2440	9.683	14.723
	26	2480	9.099	13.835
V_{min.}	11	2405	9.750	14.825
	18	2440	9.750	14.825
	26	2480	8.590	13.062
Max. Limit (mW):			10	-
Rated Power (mW):			10	-
Tolerance of Antenna Power (mW):			2 ~ 12	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain: 1.82dBi.
 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)

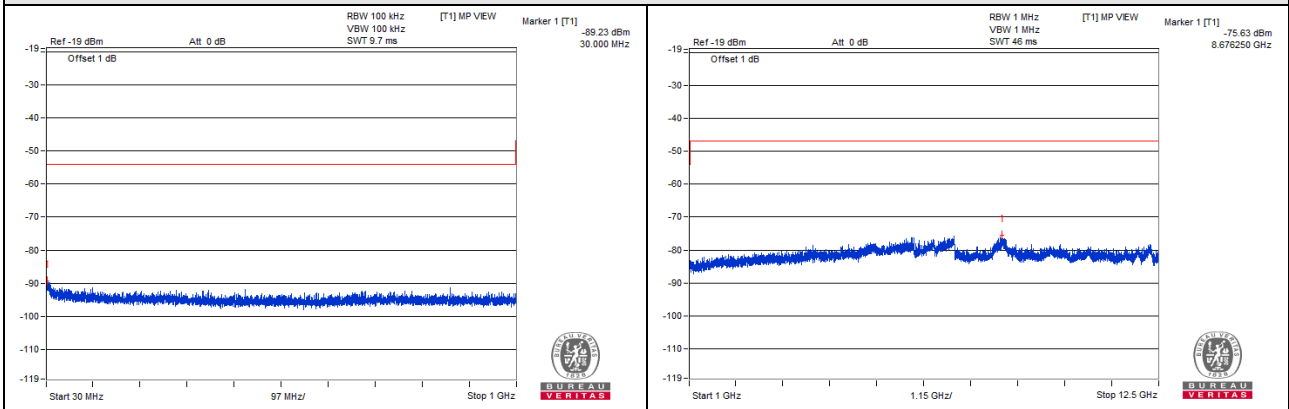
4.5.2 Test Setup



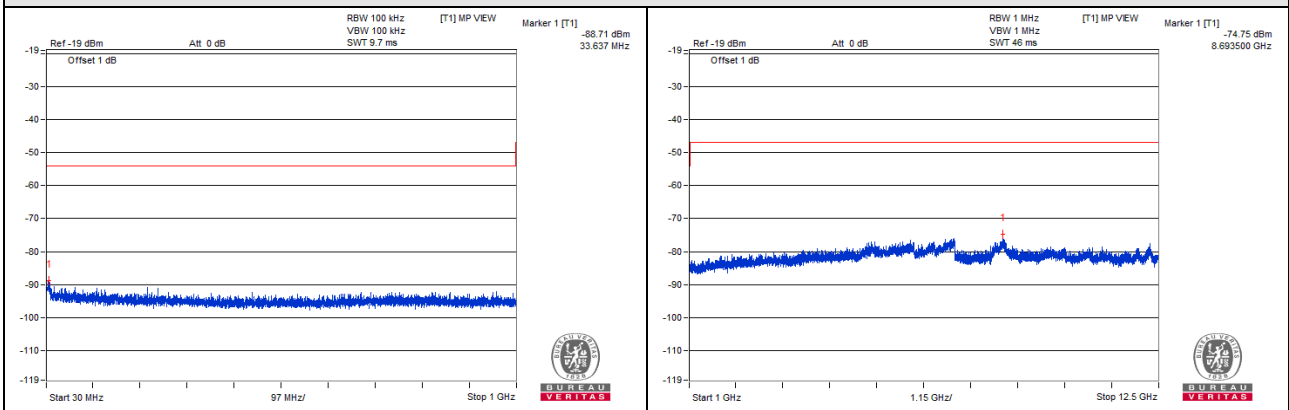
4.5.3 Test Result

Test Channel		CH 11 (2405MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (nW)	Limit (nW)	Result
V_{normal}	30 to 1000	30.000	0.001194	4.0	Pass
	1000 to 125000	8676.250	0.027353	20.0	Pass
$V_{max.}$	30 to 1000	33.637	0.001346	4.0	Pass
	1000 to 125000	8693.500	0.033497	20.0	Pass
$V_{min.}$	30 to 1000	30.606	0.001094	4.0	Pass
	1000 to 125000	7494.625	0.027606	20.0	Pass
Test Channel		CH 18 (2440MHz)			
V_{normal}	30 to 1000	34.607	0.001503	4.0	Pass
	1000 to 125000	1756.125	0.127938	20.0	Pass
$V_{max.}$	30 to 1000	35.092	0.001225	4.0	Pass
	1000 to 125000	8700.687	0.031842	20.0	Pass
$V_{min.}$	30 to 1000	34.122	0.001161	4.0	Pass
	1000 to 125000	5811.312	0.128233	20.0	Pass
Test Channel		CH 26 (2480MHz)			
V_{normal}	30 to 1000	30.121	0.001426	4.0	Pass
	1000 to 125000	1759.000	0.057544	20.0	Pass
$V_{max.}$	30 to 1000	34.607	0.001466	4.0	Pass
	1000 to 125000	7500.375	0.027861	20.0	Pass
$V_{min.}$	30 to 1000	33.273	0.001268	4.0	Pass
	1000 to 125000	8689.187	0.026363	20.0	Pass

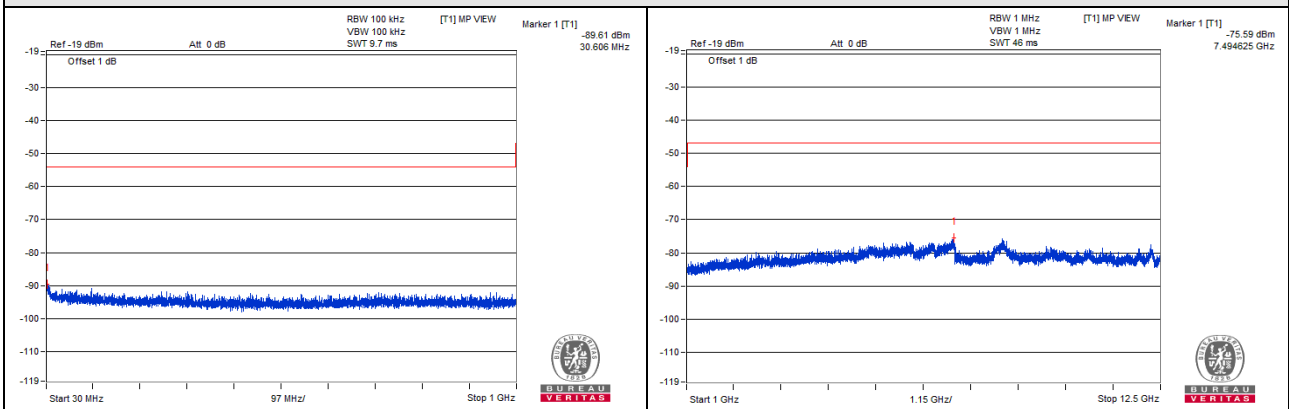
V_{normal}



V_{max}

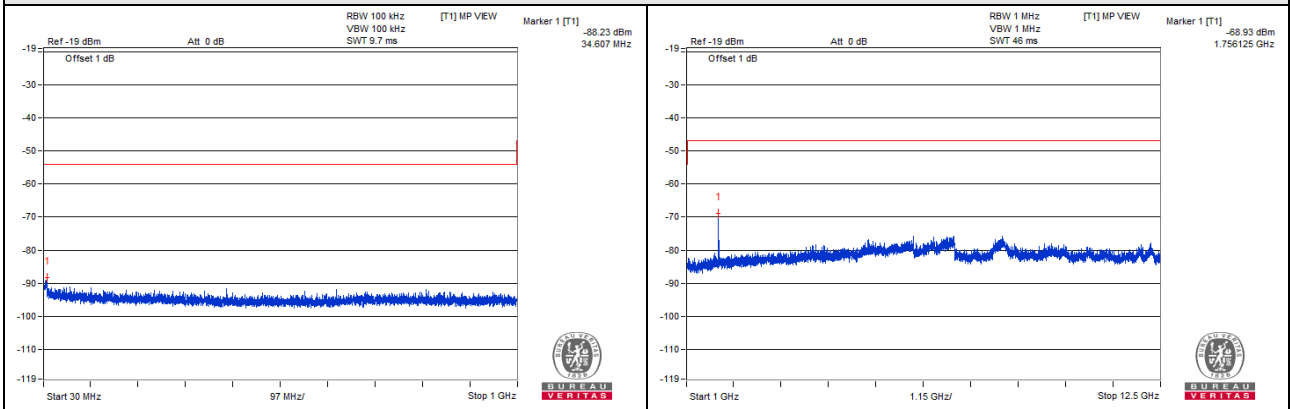


V_{min}

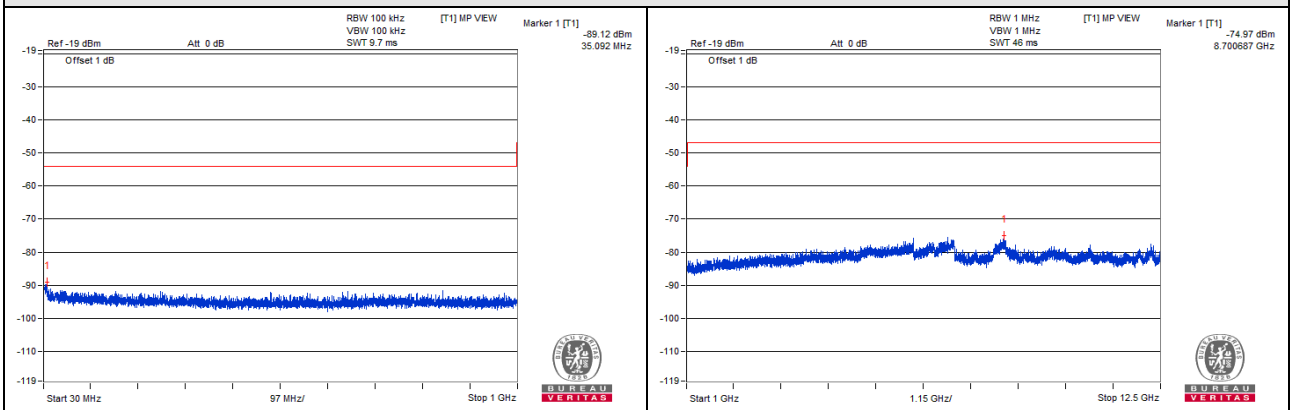


CH 11 (2405MHz)

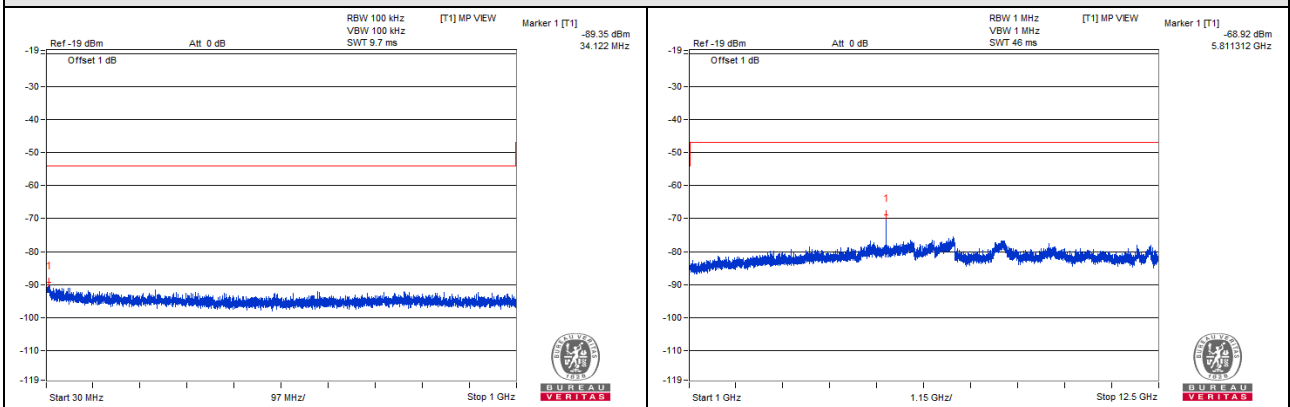
V_{normal}



V_{max}

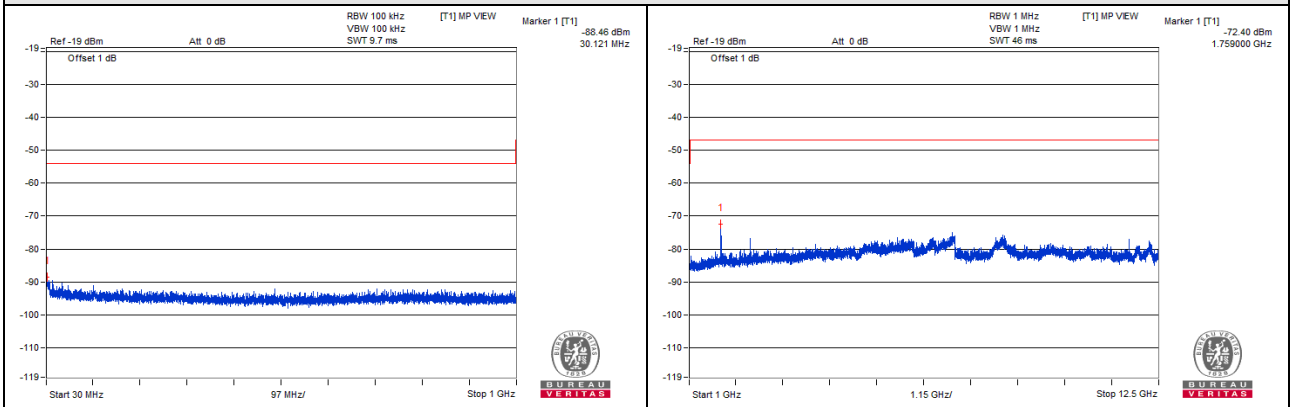


V_{min}

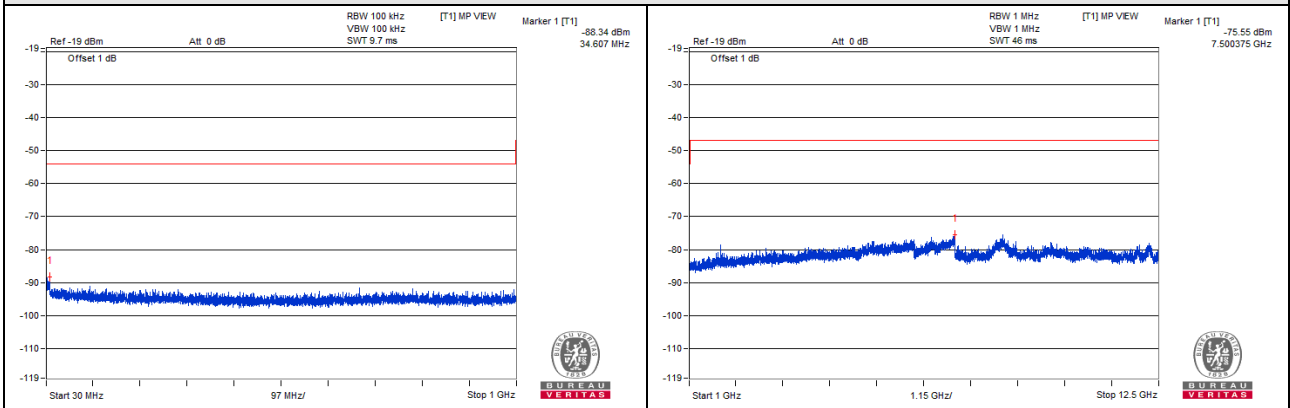


CH 18 (2440MHz)

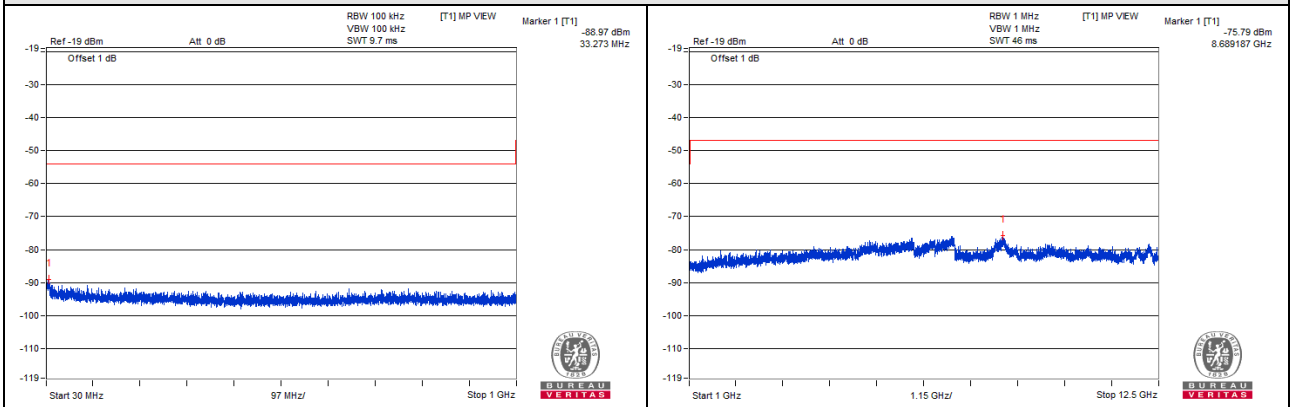
V_{normal}



V_{max}



V_{min}



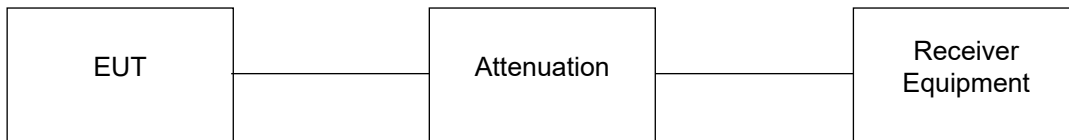
CH 26 (2480MHz)

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

NA

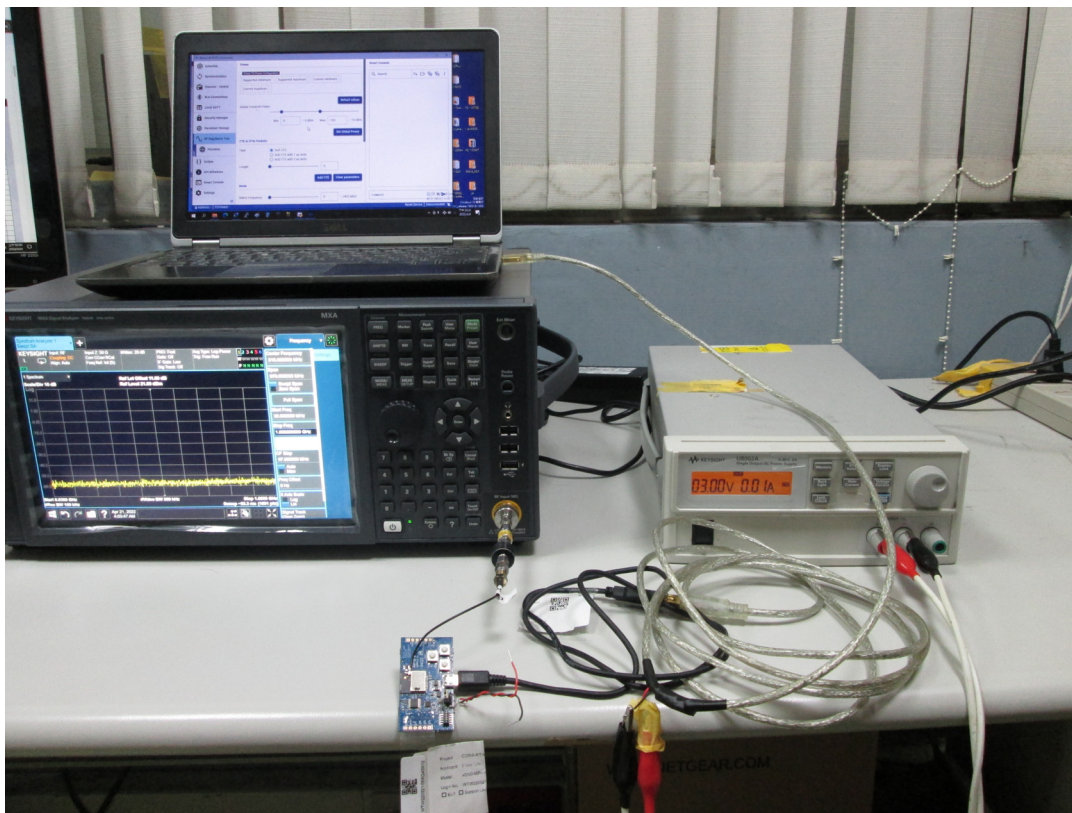
4.6.2 Test Setup



4.6.3 Test Results

Environmental Conditions	25 deg.C, 60% RH
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 FCC recognized accredited test firms and 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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