

Radio Test Report

Report No.: RJBDKX-WTW-P21080423

Test Model: UD2201p

Received Date: 2021/8/23

Test Date: 2021/9/7

Issued Date: 2021/9/23

Applicant: PRIMAX ELECTRONICS LTD.

Address: No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan, R.O.C.

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

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



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Release Control Record

Issue No.	Description	Date Issued
RJBDKX-WTW-P21080423	Original release.	2021/9/23

1 Certificate of Conformity

Product: Dongle

Brand: ALIENWARE

Test Model: UD2201p

Sample Status: Engineering sample

Applicant: PRIMAX ELECTRONICS LTD.

Test Date: 2021/9/7

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 :



, **Date:**

2021/9/23

Jessica Cheng / Senior Specialist

Approved by :



, **Date:**

2021/9/23

Rex Lai / Associate Technical Manager

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)	4.4	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
--	--	3.5	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5MHz				
--	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 Powermeasurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2021/6/16	2022/6/15	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2020/9/8	2021/9/7	ETC	c)
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2021/7/23	2022/7/22	ETC	c)
Pulse Power Sensor Anritsu	MA2411B	0738404	2021/4/15	2022/4/14	ETC	c)
Peak Power meter Anritsu	ML2495A	0842014	2021/4/15	2022/4/14	ETC	c)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2021/5/19	2022/5/18	ETC	c)
Agilent Mobile Comm Dual ps w/Battery Emulation	66319D	MY43005576	2020/10/19	2021/10/18	Agilent	c)
Fluke True RMS Clamp Meter	325	31130711WS	2021/6/2	2022/6/1	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) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~ .
- b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the MeasurementLaw (Law No. 51 of 1992) ~ Japan Calibration Service Syste ~
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted bythe NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~ .
- 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
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	Dongle
Brand	ALIENWARE
Test Model	UD2201p
Status of EUT	Engineering sample
Nominal Voltage	5Vdc from host equipment
Modulation Type	GFSK
Operating Frequency	2402MHz ~ 2479MHz
Number of Channel	78
Rated RF Output Power	4mW
Conducted RF Output Power	3.819mW
Radiated RF Output Power	2.328mW
Antenna Type	Chip antenna with -2.15 dBi gain
Antenna Connector	N/A
Accessory Device	USB adapter, Connector
Data Cable Supplied	Shielded USB cable (2.0m)

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 Description of Test Modes

78 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460		
19	2421	39	2441	59	2461		

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

Channel	Power setting
0	0
39	0
77	0

3.3 Test Conditions

Test Conditions		Voltage (Vdc)
V_{normal}	-	5
$V_{max.}$	+10%	5.5 (Note)
$V_{min.}$	-10%	4.5 (Note)

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 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

3.4 Assembly

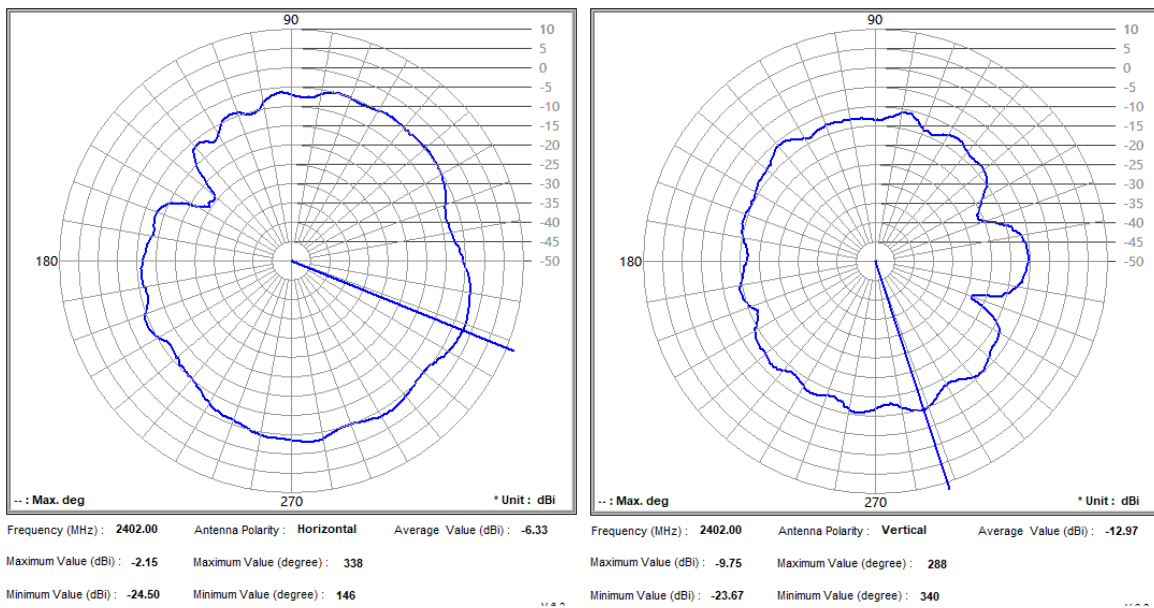
The EUT is constructed as a USB Dongle that is constructed as a standalone unit. The housing consists of two plastic parts, affirmed together by means of deforming. Separating the two parts (i.e operating of the housing) was only possible by means of brute force.

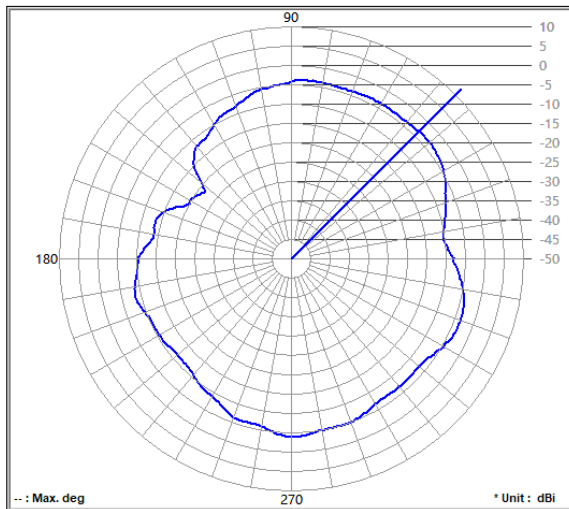
3.5 Antenna Specifications

3.5.1 Antenna Gain

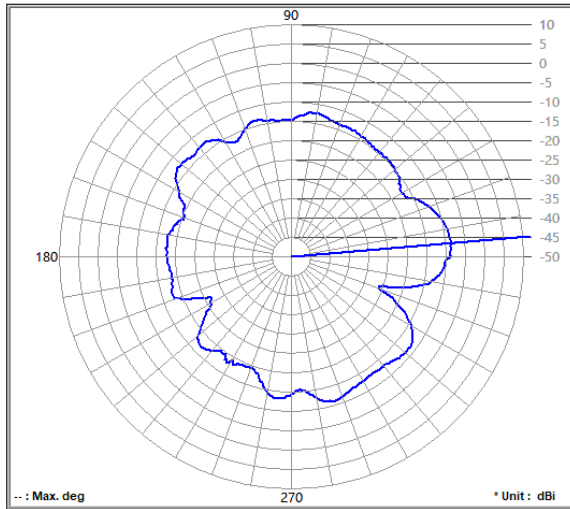
Antenna Type	Max. Gain (dBi)
Chip antenna	-2.15

3.5.2 Antenna Pattern

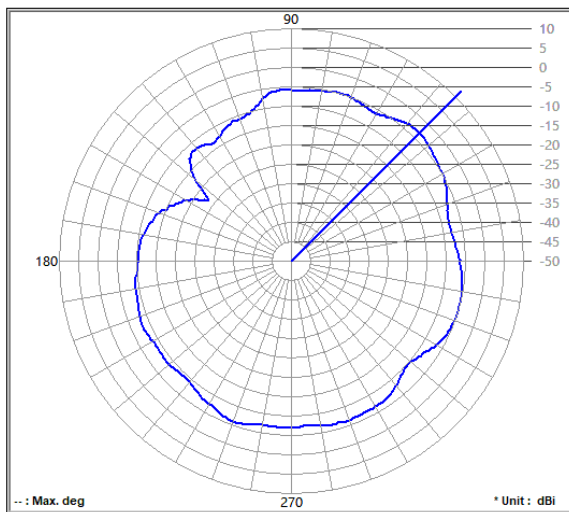




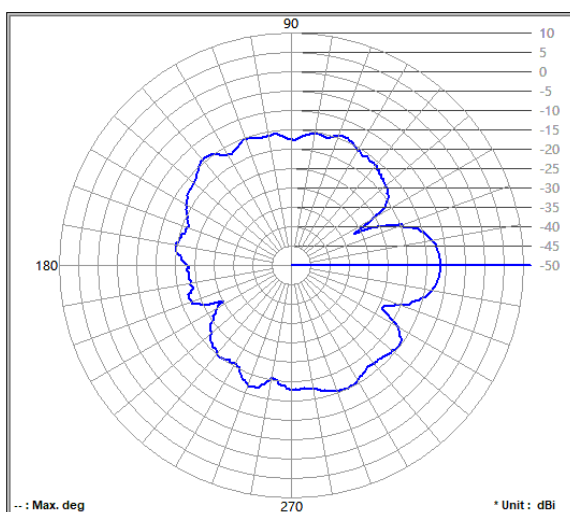
Frequency (MHz) : 2440.00 Antenna Polarity : Horizontal Average Value (dBi) : -6.55
 Maximum Value (dBi) : -3.33 Maximum Value (degree) : 45
 Minimum Value (dBi) : -21.79 Minimum Value (degree) : 142



Frequency (MHz) : 2440.00 Antenna Polarity : Vertical Average Value (dBi) : -14.21
 Maximum Value (dBi) : -8.57 Maximum Value (degree) : 5
 Minimum Value (dBi) : -26.73 Minimum Value (degree) : 208



Frequency (MHz) : 2480.00 Antenna Polarity : Horizontal Average Value (dBi) : -7.27
 Maximum Value (dBi) : -3.12 Maximum Value (degree) : 45
 Minimum Value (dBi) : -23.44 Minimum Value (degree) : 144



Frequency (MHz) : 2480.00 Antenna Polarity : Vertical Average Value (dBi) : -16.98
 Maximum Value (dBi) : -11.38 Maximum Value (degree) : 0
 Minimum Value (dBi) : -32.01 Minimum Value (degree) : 27

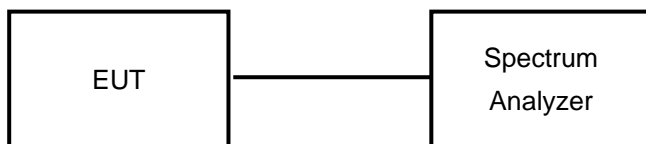
4 Test Results

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)
0	2402	2402.006640	2.764	2402.006200	2.581	2402.005760	2.398
39	2441	2441.005560	2.277	2441.005360	2.195	2441.005200	2.130
77	2479	2479.005160	2.081	2479.005080	2.049	2479.004960	2.000

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

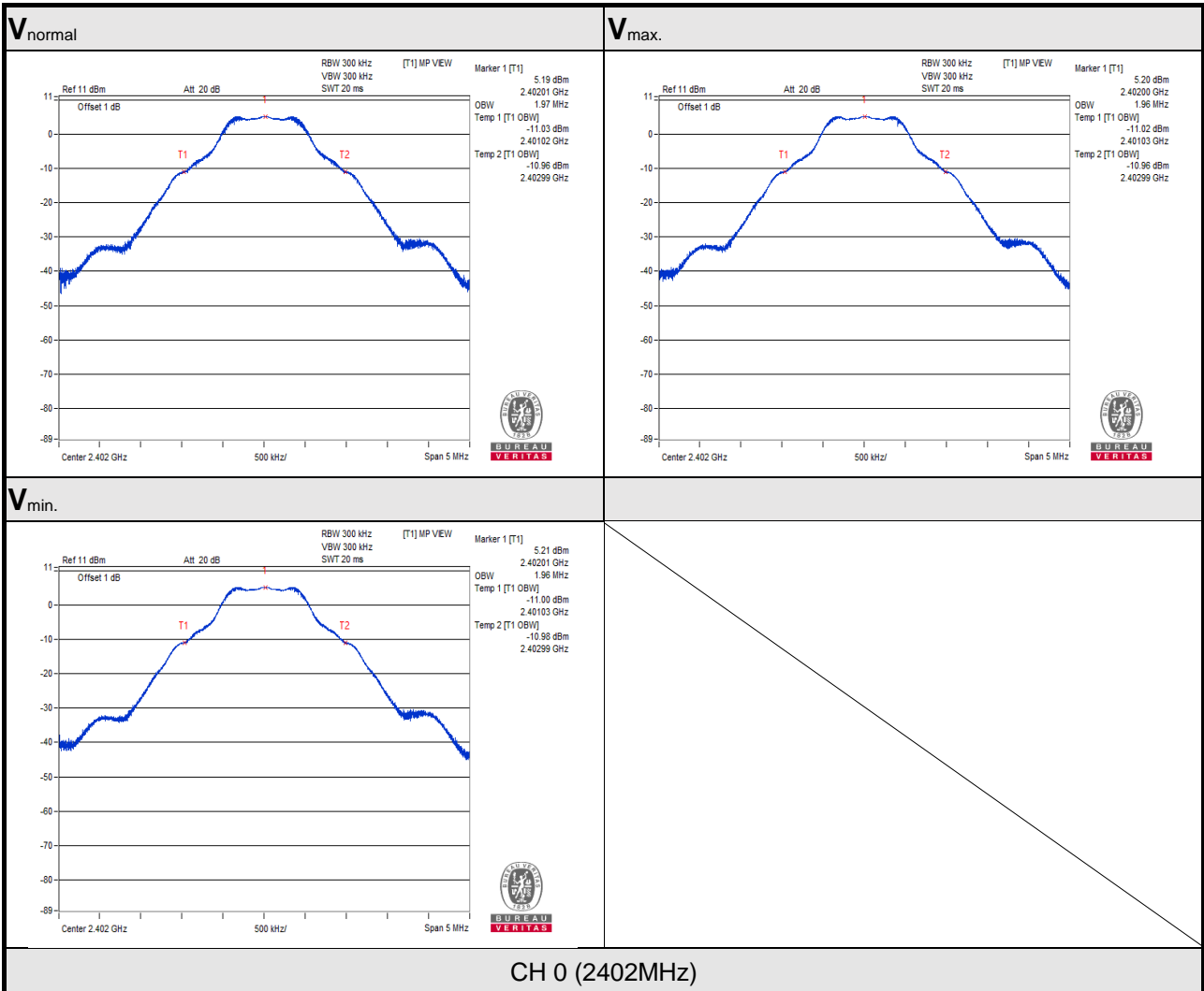
4.2.2 Test Setup



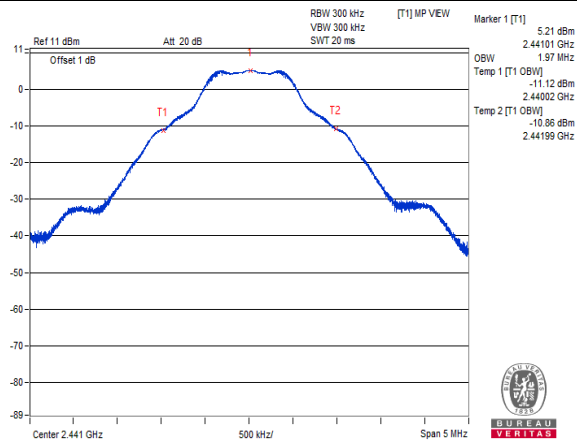
4.2.3 Test Results

Channel	Frequency (MHz)	V_{normal}	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2402	1.97	1.96	1.96
39	2441	1.97	1.97	1.97
77	2479	1.98	1.98	1.98

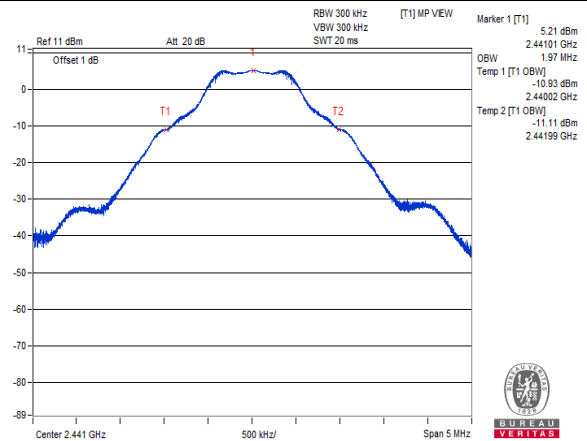
NOTE: For the test plots please refer to the below pages.



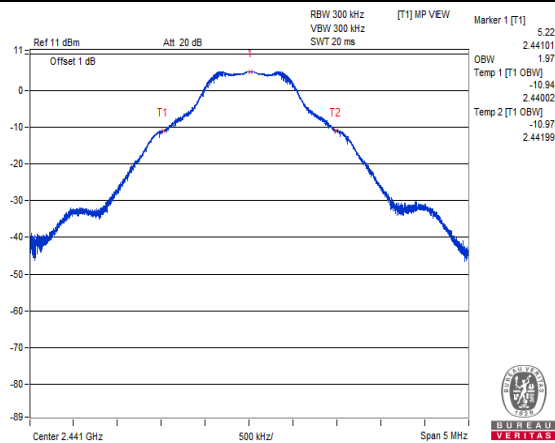
V_{normal}



V_{max.}

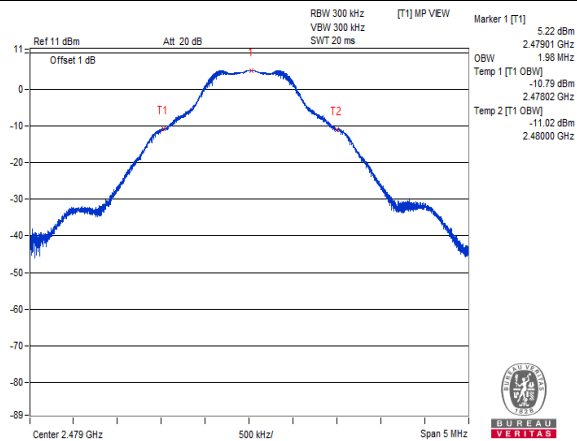


V_{min.}

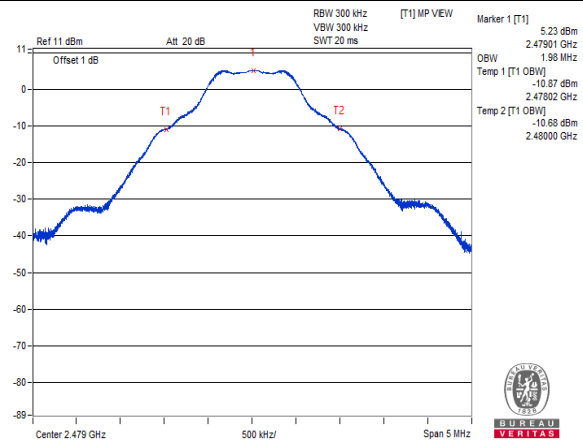


CH 39 (2441MHz)

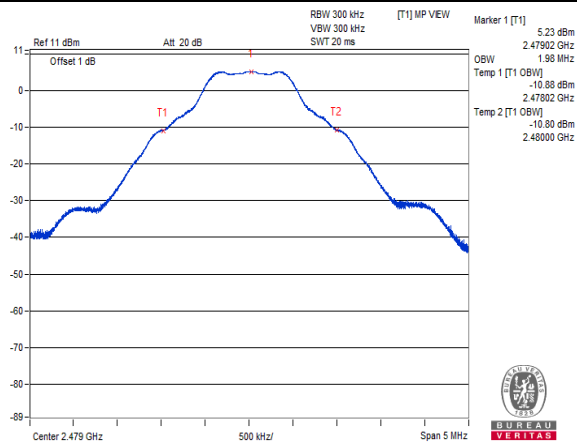
V_{normal}



V_{max.}



V_{min.}



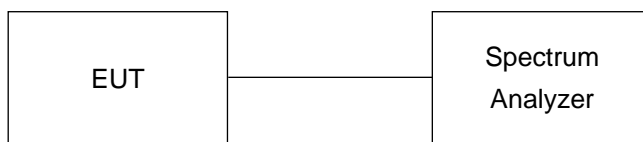
CH 77 (2479MHz)

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



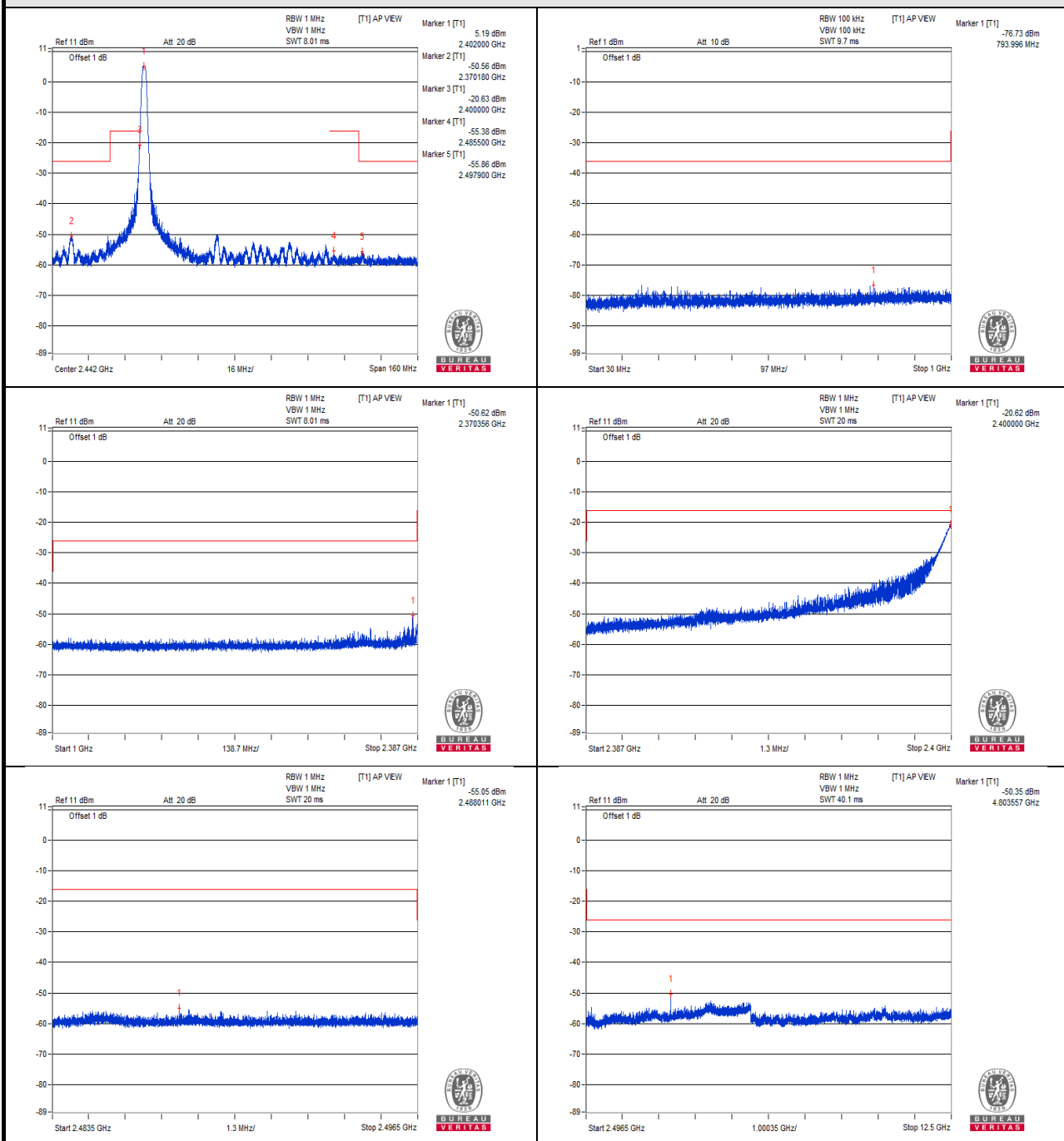
4.3.3 Test Results

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	793.996	0.000021	0.25	PASS
	1000MHz to 2387MHz	2370.356	0.008670	2.5	PASS
	2387MHz to 2400MHz	2400.000	8.669619	25	PASS
	2483.5MHz to 2496.5MHz	2488.011	0.003126	25	PASS
	2496.5MHz to 12500MHz	4803.557	0.009226	2.5	PASS
V_{max.}	30MHz to 1000MHz	272.015	0.000018	0.25	PASS
	1000MHz to 2387MHz	2370.009	0.006310	2.5	PASS
	2387MHz to 2400MHz	2399.988	8.709636	25	PASS
	2483.5MHz to 2496.5MHz	2484.692	0.003266	25	PASS
	2496.5MHz to 12500MHz	4803.557	0.008630	2.5	PASS
V_{min.}	30MHz to 1000MHz	256.010	0.000019	0.25	PASS
	1000MHz to 2387MHz	2370.182	0.005754	2.5	PASS
	2387MHz to 2400MHz	2399.995	9.099133	25	PASS
	2483.5MHz to 2496.5MHz	2485.064	0.003069	25	PASS
	2496.5MHz to 12500MHz	4804.807	0.008054	2.5	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	729.127	0.000034	0.25	PASS
	1000MHz to 2387MHz	2377.117	0.004046	2.5	PASS
	2387MHz to 2400MHz	2393.095	0.006209	25	PASS
	2483.5MHz to 2496.5MHz	2489.367	0.006353	25	PASS
	2496.5MHz to 12500MHz	4882.334	0.006457	2.5	PASS
V_{max.}	30MHz to 1000MHz	810.122	0.000022	0.25	PASS
	1000MHz to 2387MHz	2377.291	0.004831	2.5	PASS
	2387MHz to 2400MHz	2393.228	0.005433	25	PASS
	2483.5MHz to 2496.5MHz	2489.189	0.005984	25	PASS
	2496.5MHz to 12500MHz	4881.084	0.007244	2.5	PASS
V_{min.}	30MHz to 1000MHz	256.010	0.000022	0.25	PASS
	1000MHz to 2387MHz	2377.637	0.004335	2.5	PASS
	2387MHz to 2400MHz	2392.752	0.005861	25	PASS
	2483.5MHz to 2496.5MHz	2489.213	0.006095	25	PASS
	2496.5MHz to 12500MHz	4882.334	0.006966	2.5	PASS

TEST CHANNEL		CH 77 (2479MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	191.990	0.000024	0.25	PASS
	1000MHz to 2387MHz	2351.804	0.003648	2.5	PASS
	2387MHz to 2400MHz	2399.247	0.004207	25	PASS
	2483.5MHz to 2496.5MHz	2483.569	0.130918	25	PASS
	2496.5MHz to 12500MHz	2510.254	0.006714	2.5	PASS
V_{max.}	30MHz to 1000MHz	988.602	0.000026	0.25	PASS
	1000MHz to 2387MHz	2350.764	0.003214	2.5	PASS
	2387MHz to 2400MHz	2399.090	0.003917	25	PASS
	2483.5MHz to 2496.5MHz	2483.537	0.121060	25	PASS
	2496.5MHz to 12500MHz	2511.505	0.008110	2.5	PASS
V_{min.}	30MHz to 1000MHz	217.573	0.000023	0.25	PASS
	1000MHz to 2387MHz	2255.408	0.003304	2.5	PASS
	2387MHz to 2400MHz	2398.428	0.004406	25	PASS
	2483.5MHz to 2496.5MHz	2483.626	0.098175	25	PASS
	2496.5MHz to 12500MHz	2510.254	0.005902	2.5	PASS

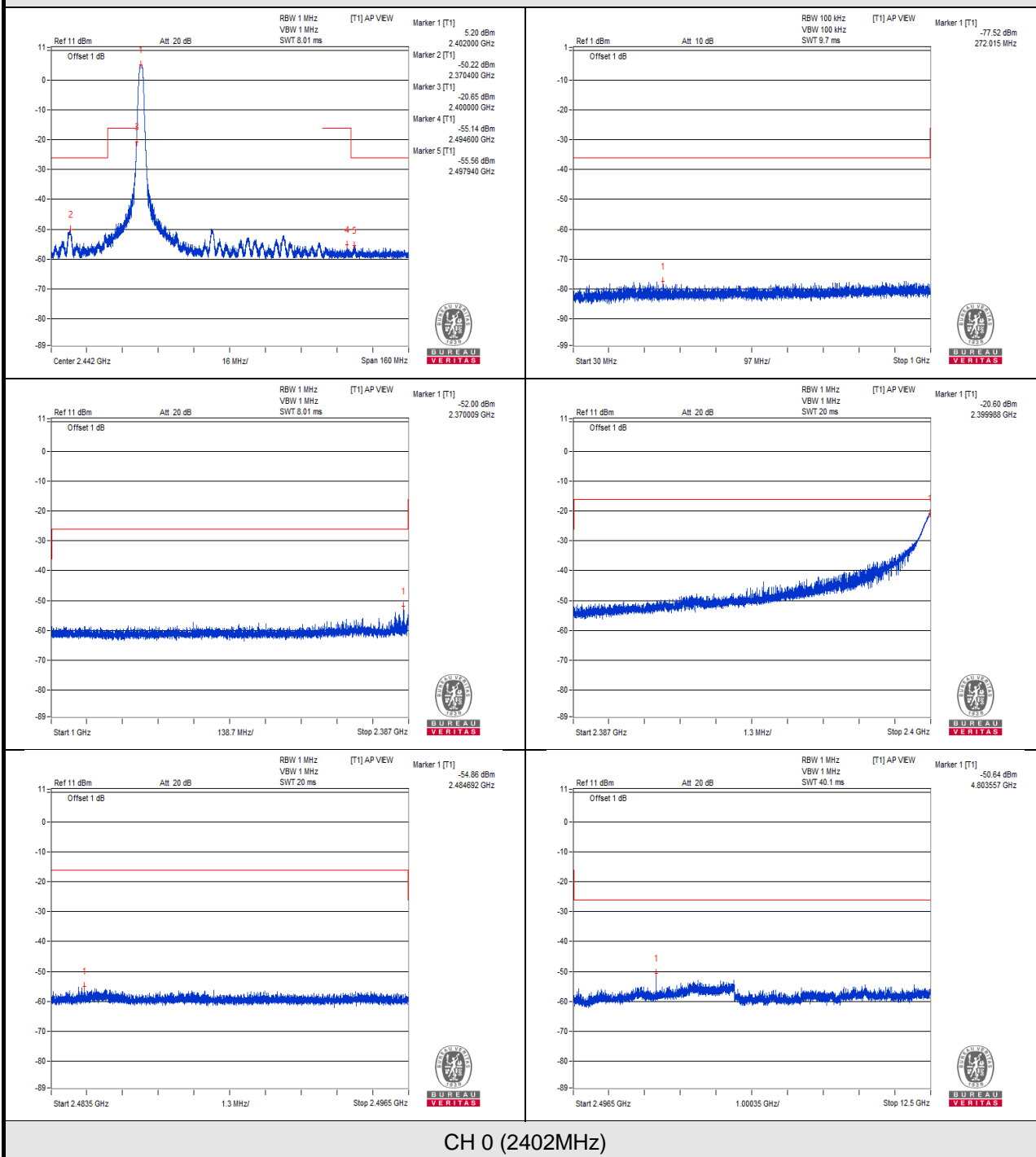
NOTE: The spectrum plots are attached on the following pages.

Vnormal

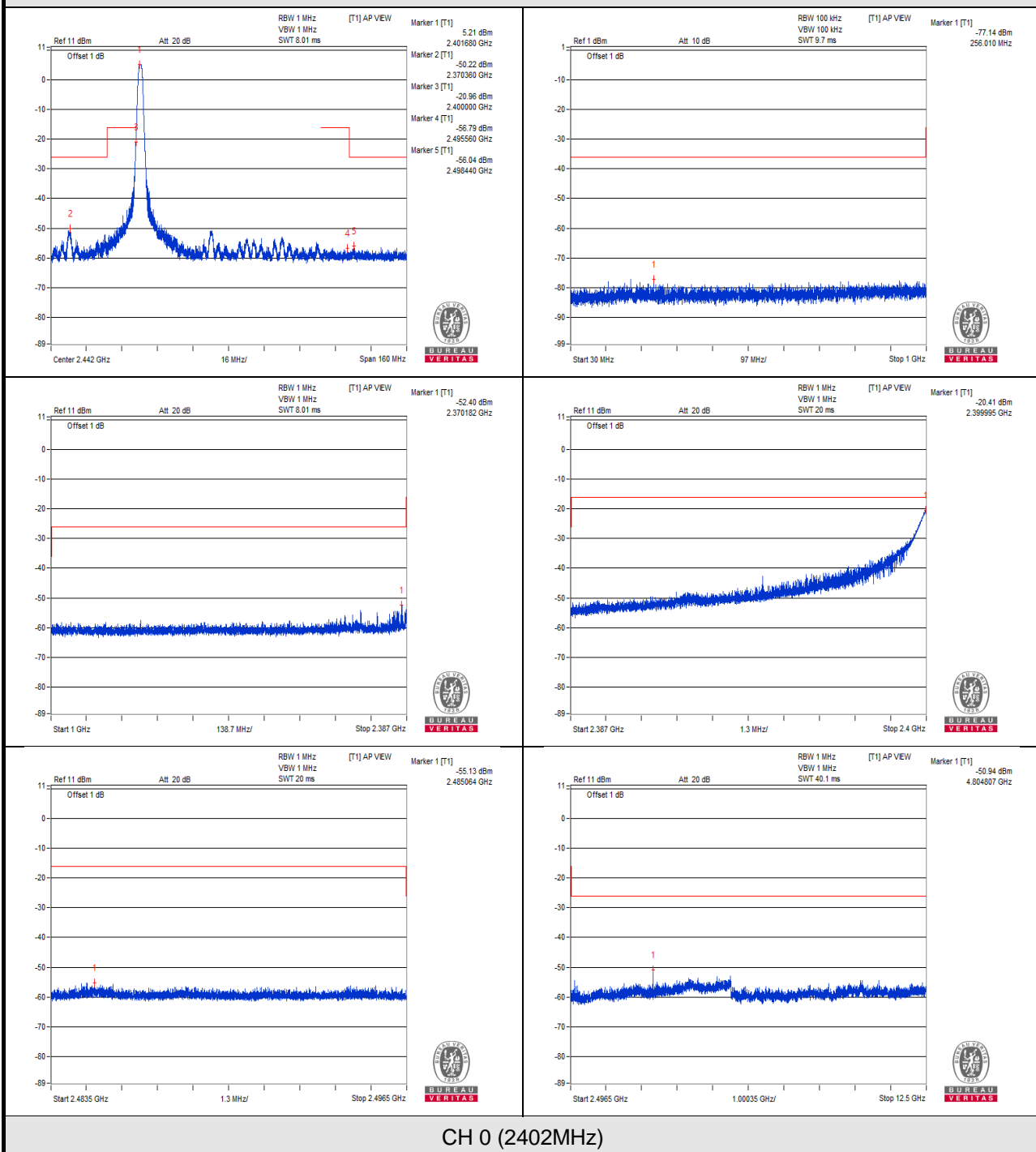


CH 0 (2402MHz)

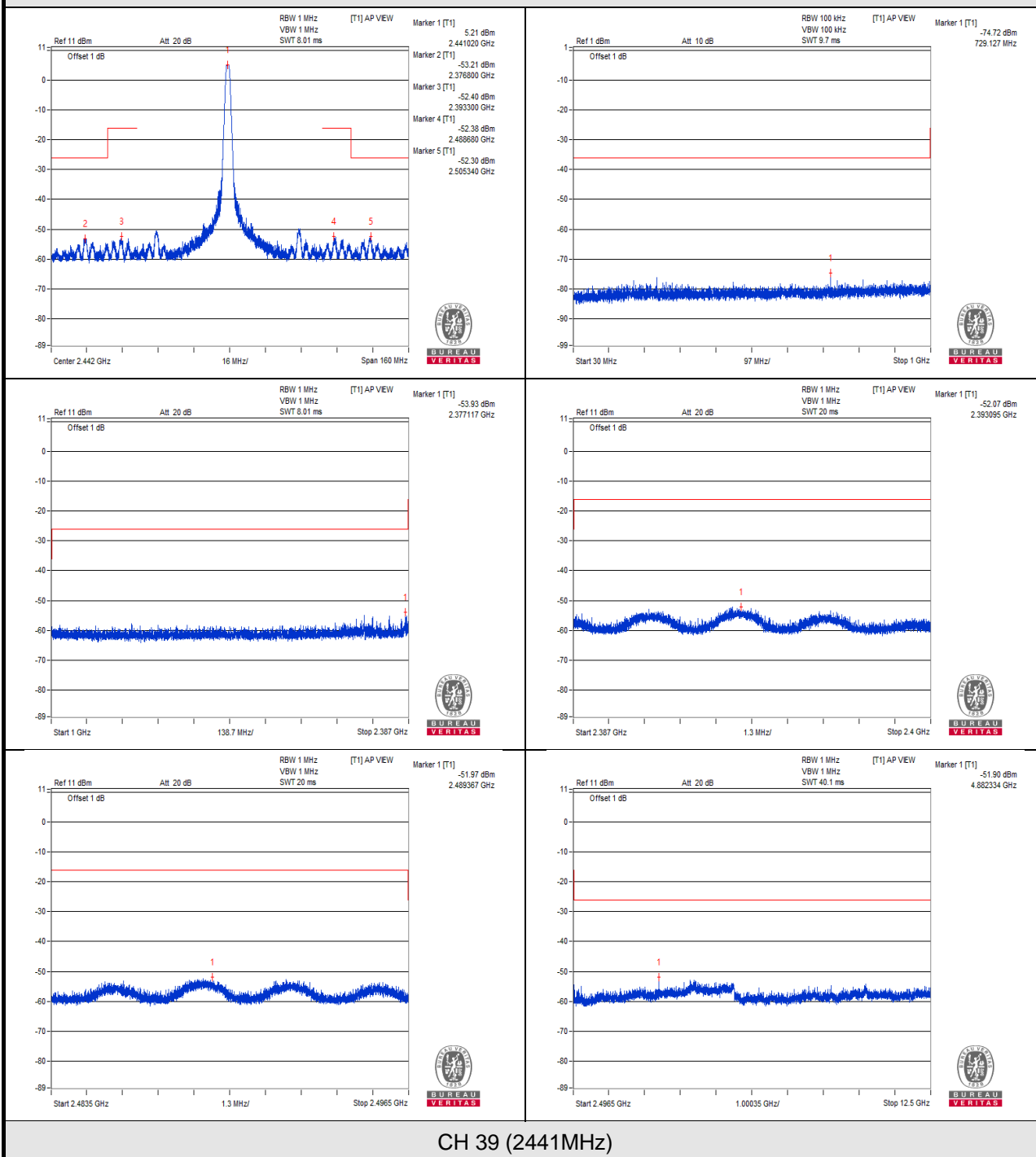
V_{max}.



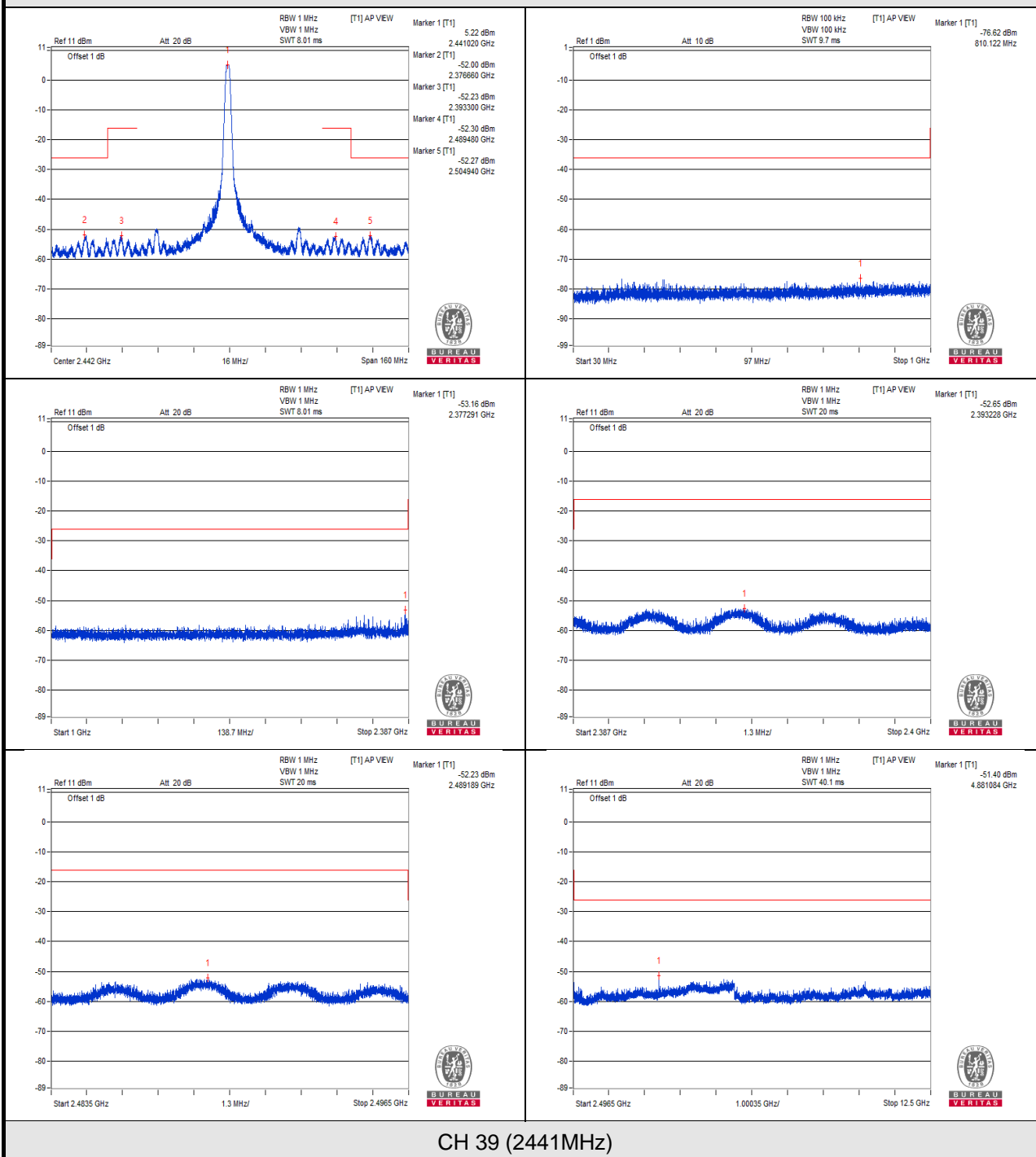
V_{min}.



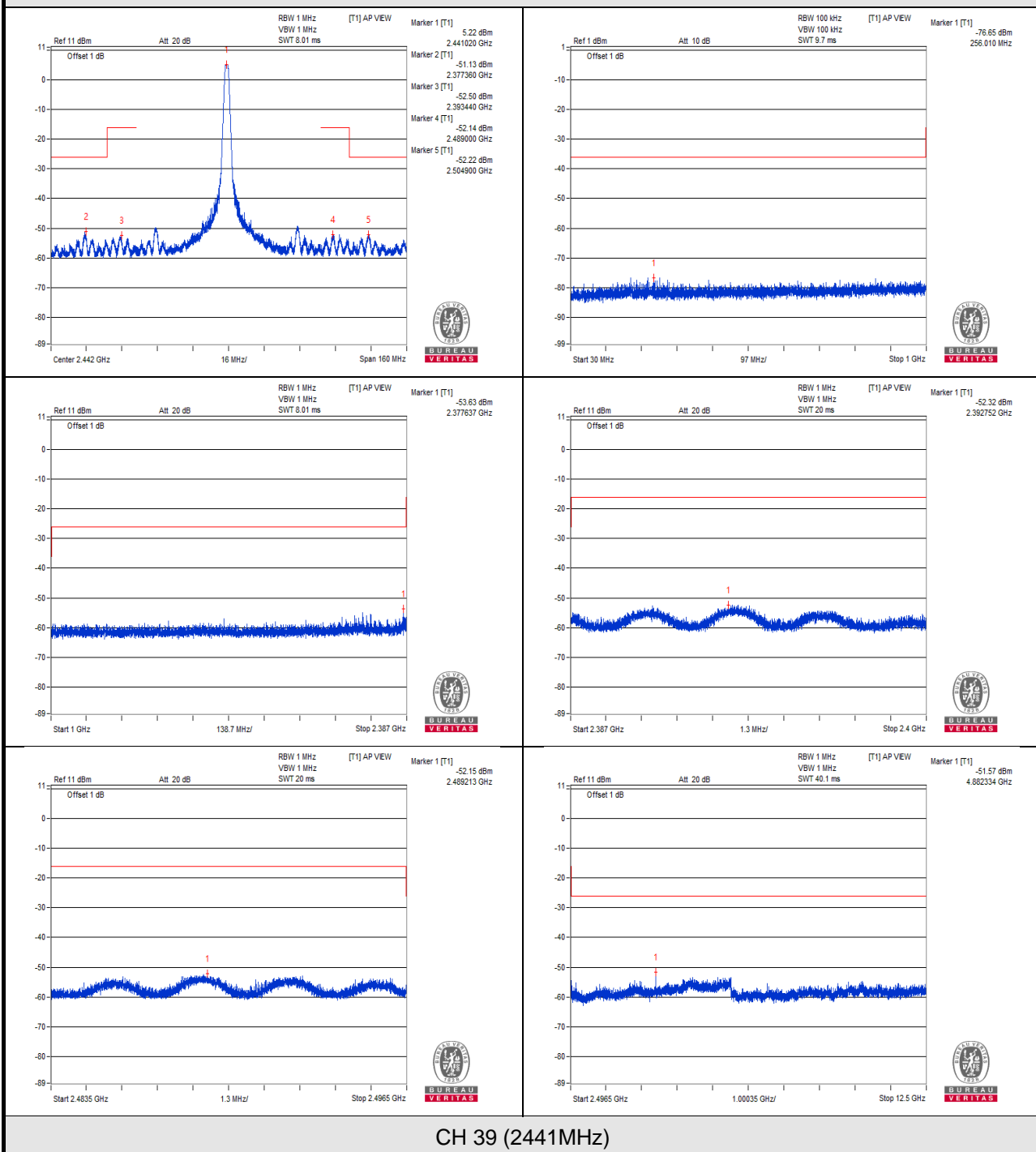
Vnormal



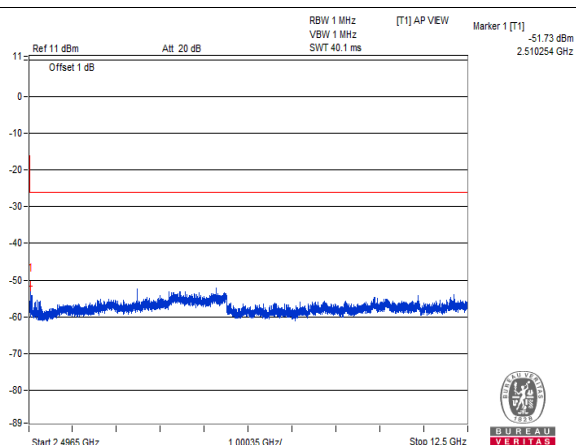
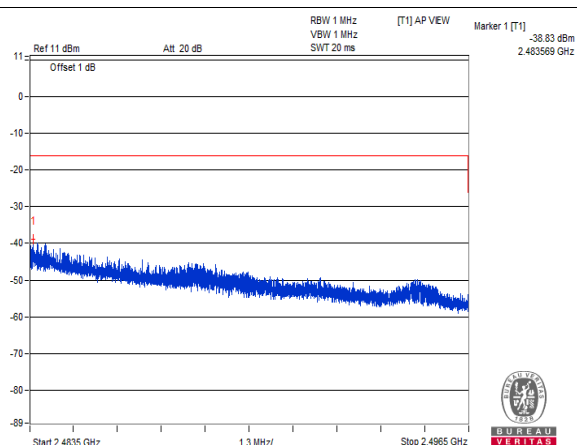
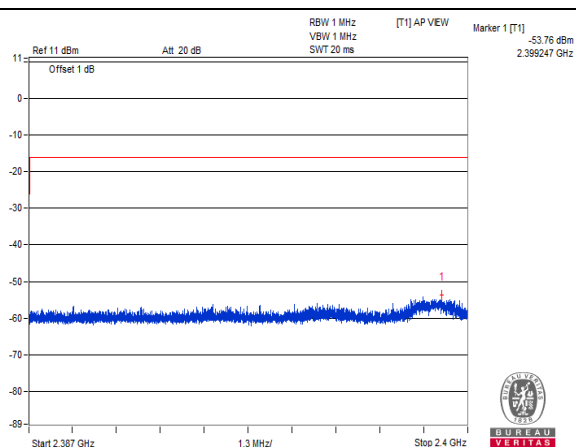
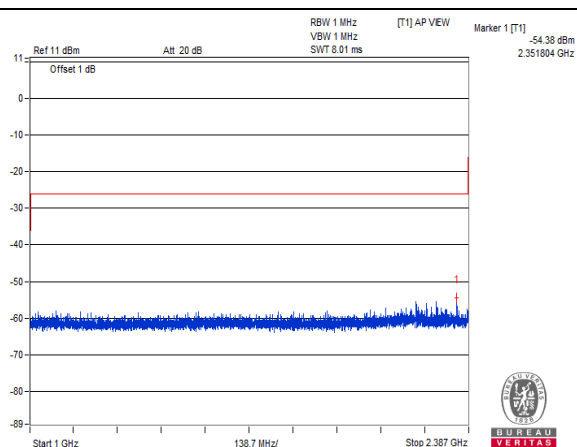
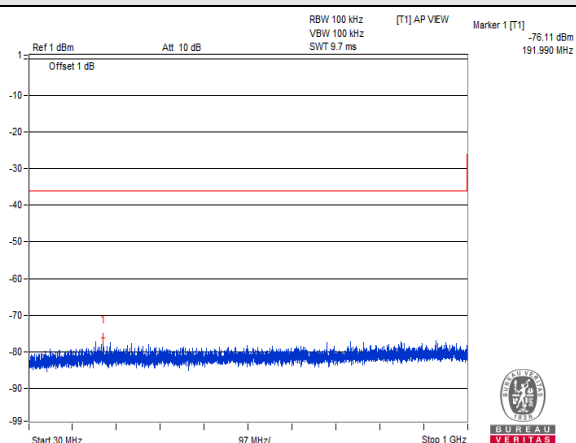
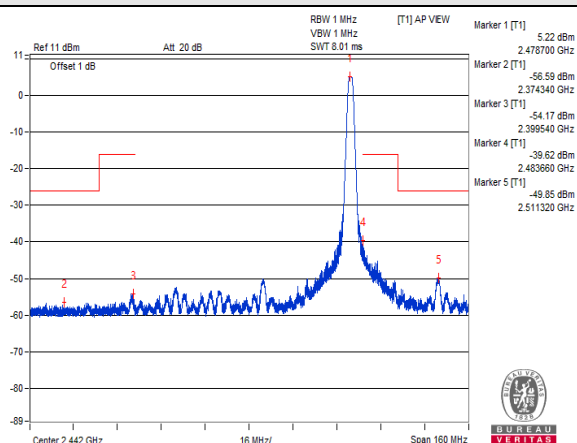
V_{max}.



V_{min}.

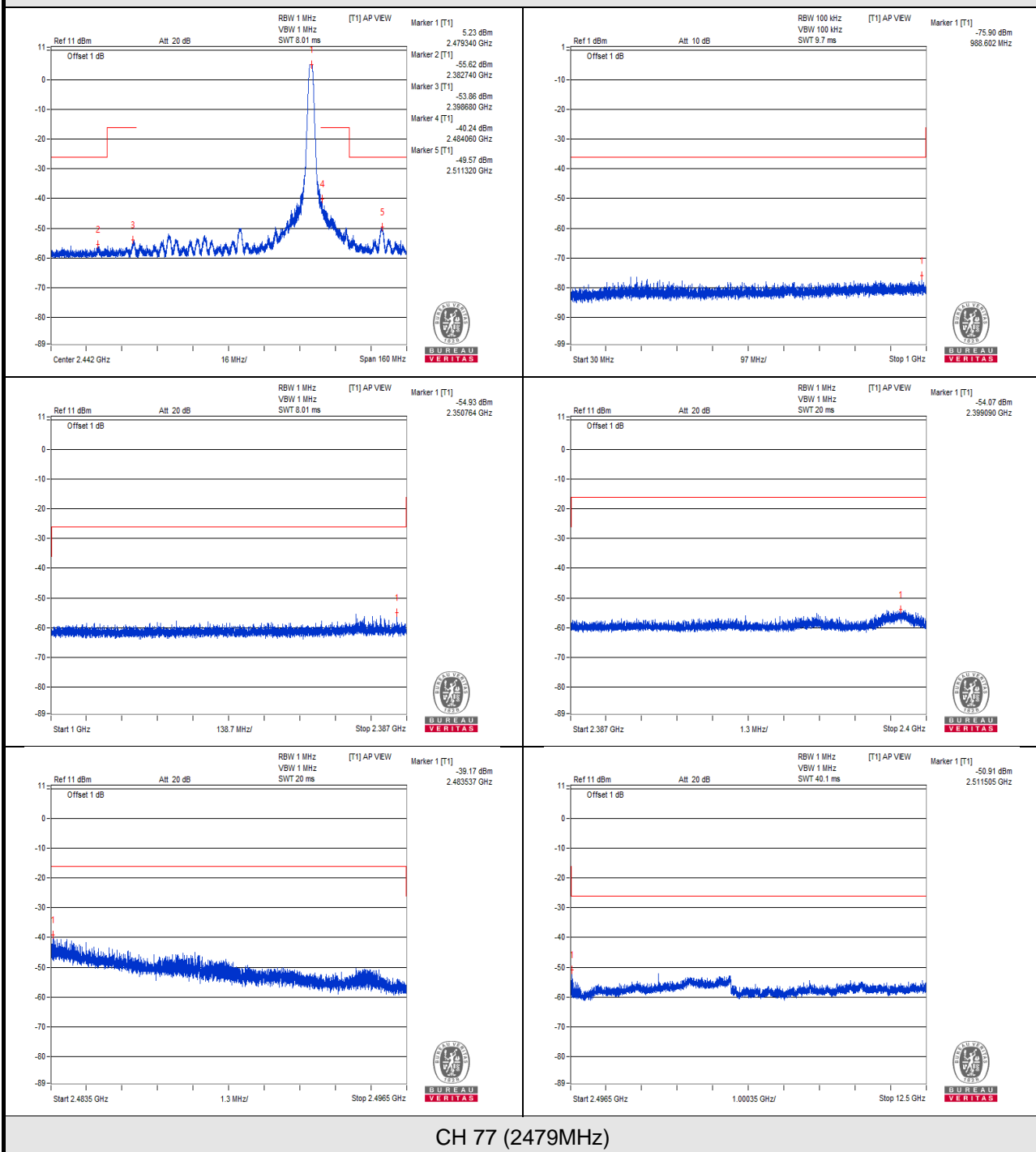


Vnormal

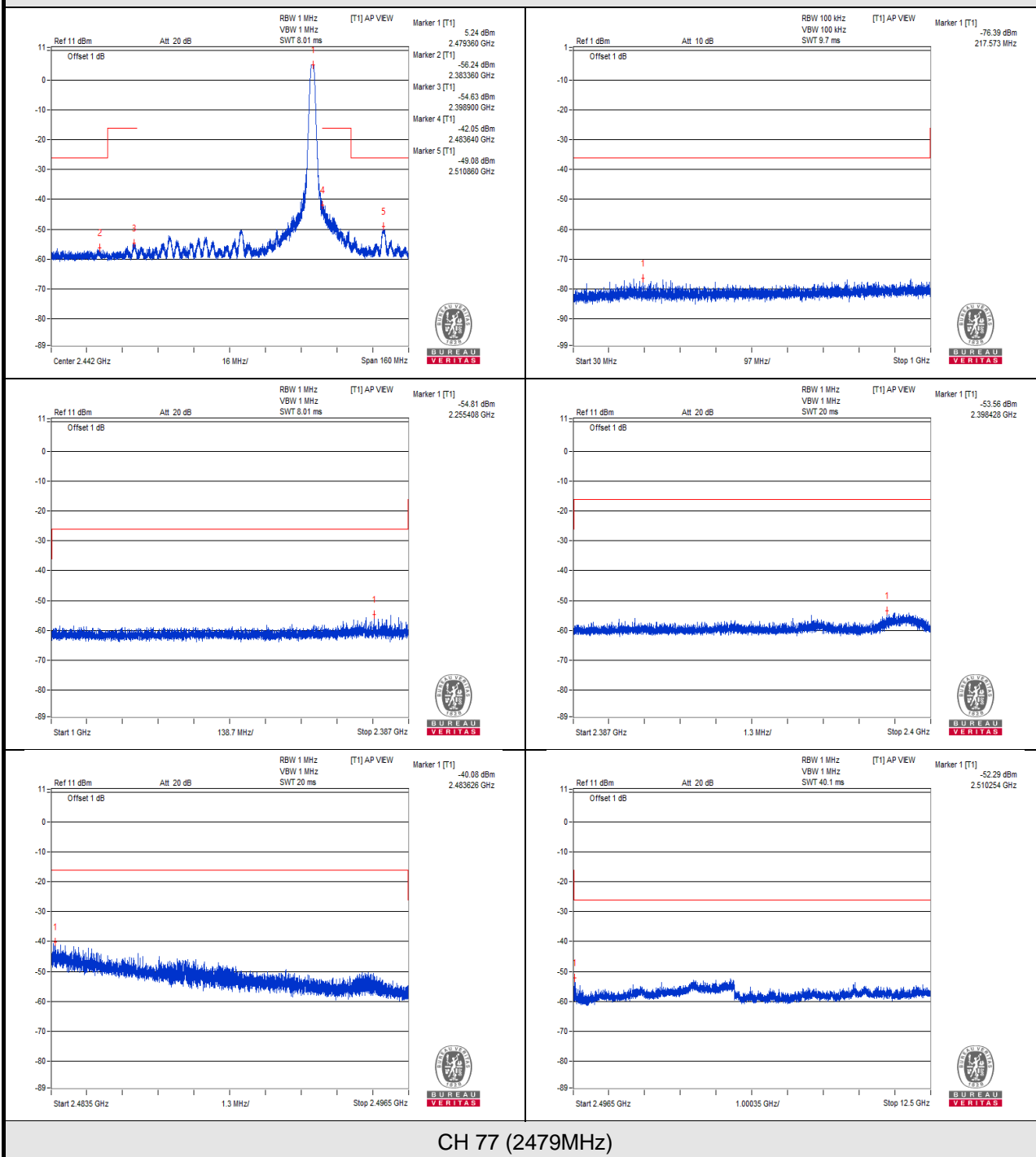


CH 77 (2479MHz)

V_{max}.



V_{min}.



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 38MHz
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)
V_{normal}	0	2402	3.733	2.275
	39	2441	3.724	2.27
	77	2479	3.656	2.228
V_{max.}	0	2402	3.69	2.249
	39	2441	3.648	2.224
	77	2479	3.524	2.148
V_{min.}	0	2402	3.819	2.328
	39	2441	3.802	2.317
	77	2479	3.802	2.317
Max. Limit (mW):			10	
Rated Power (mW):			4	-
Tolerance of Antenna Power (mW):			0.8 ~ 4.8	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain is -2.15 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)

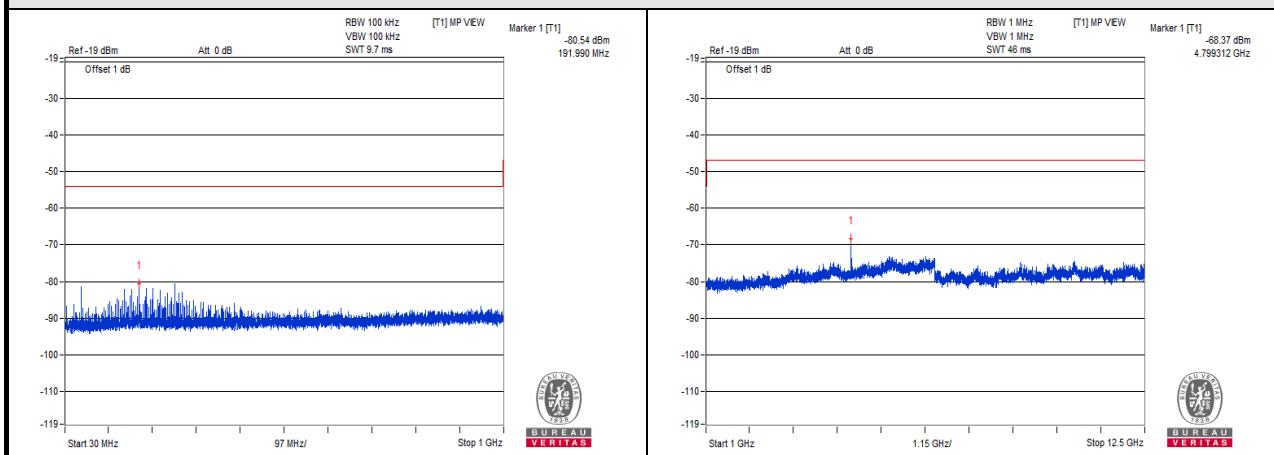
4.5.2 Test Setup



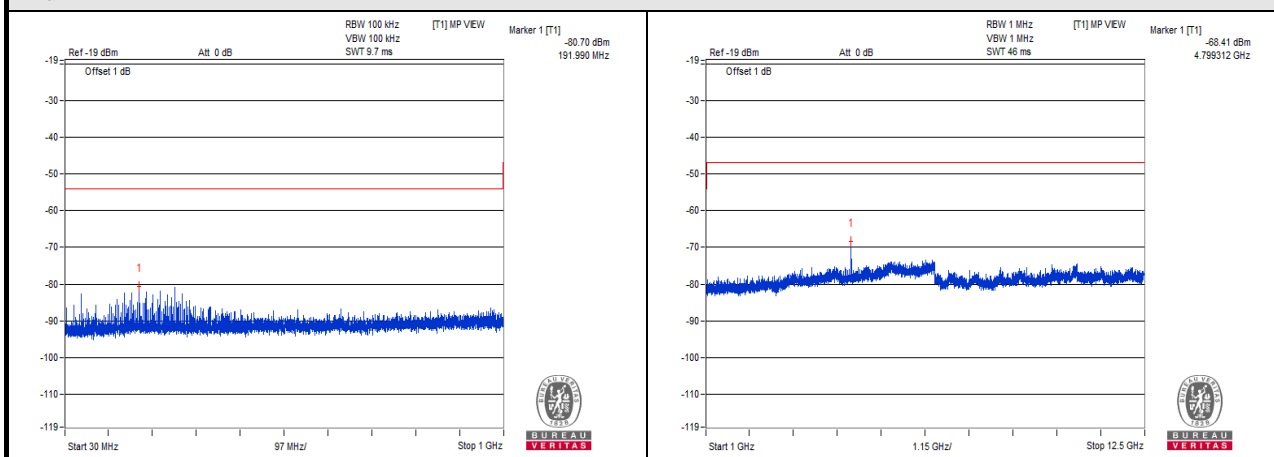
4.5.3 Test Result

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	191.990	0.008831	4.0	PASS
	1000MHz to 12500MHz	4799.312	0.145546	20.0	PASS
V_{max.}	30MHz to 1000MHz	191.990	0.008511	4.0	PASS
	1000MHz to 12500MHz	4799.312	0.144212	20.0	PASS
V_{min.}	30MHz to 1000MHz	191.990	0.008750	4.0	PASS
	1000MHz to 12500MHz	4800.750	0.162181	20.0	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	272.015	0.009247	4.0	PASS
	1000MHz to 12500MHz	4878.375	0.109396	20.0	PASS
V_{max.}	30MHz to 1000MHz	272.015	0.009397	4.0	PASS
	1000MHz to 12500MHz	4878.375	0.093972	20.0	PASS
V_{min.}	30MHz to 1000MHz	272.015	0.009226	4.0	PASS
	1000MHz to 12500MHz	4878.375	0.096605	20.0	PASS
TEST CHANNEL		CH 77 (2479MHz)			
V_{normal}	30MHz to 1000MHz	272.015	0.007962	4.0	PASS
	1000MHz to 12500MHz	4954.562	0.077983	20.0	PASS
V_{max.}	30MHz to 1000MHz	272.015	0.009078	4.0	PASS
	1000MHz to 12500MHz	4954.562	0.076560	20.0	PASS
V_{min.}	30MHz to 1000MHz	272.015	0.008492	4.0	PASS
	1000MHz to 12500MHz	4954.562	0.064863	20.0	PASS

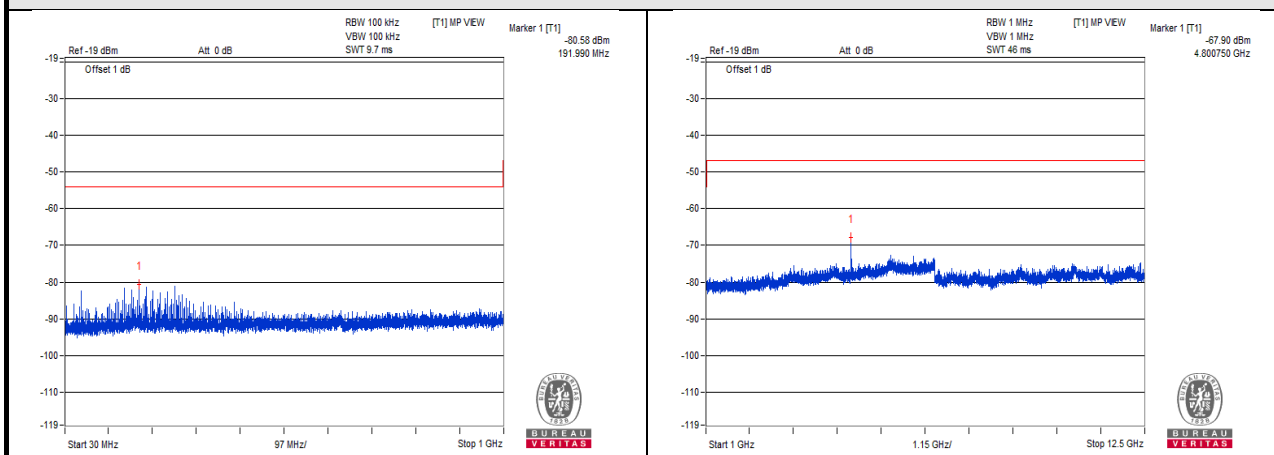
V_{normal}



V_{max.}

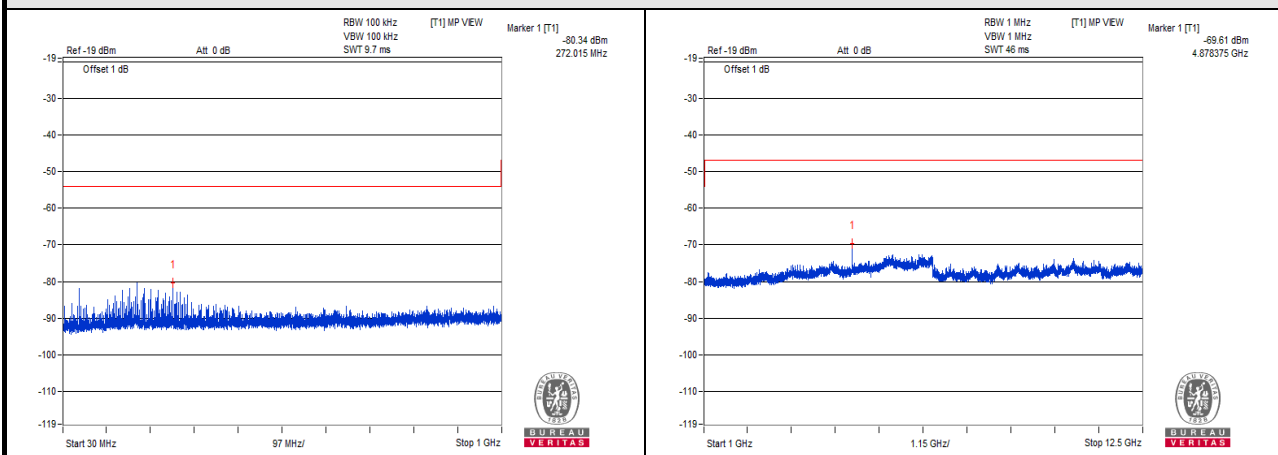


V_{min.}

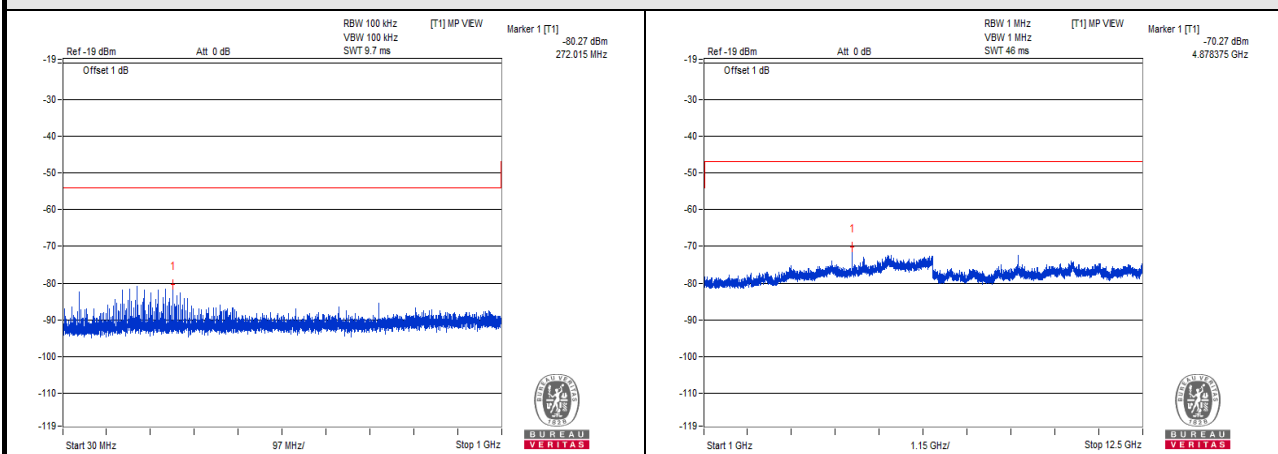


CH 0 (2402MHz)

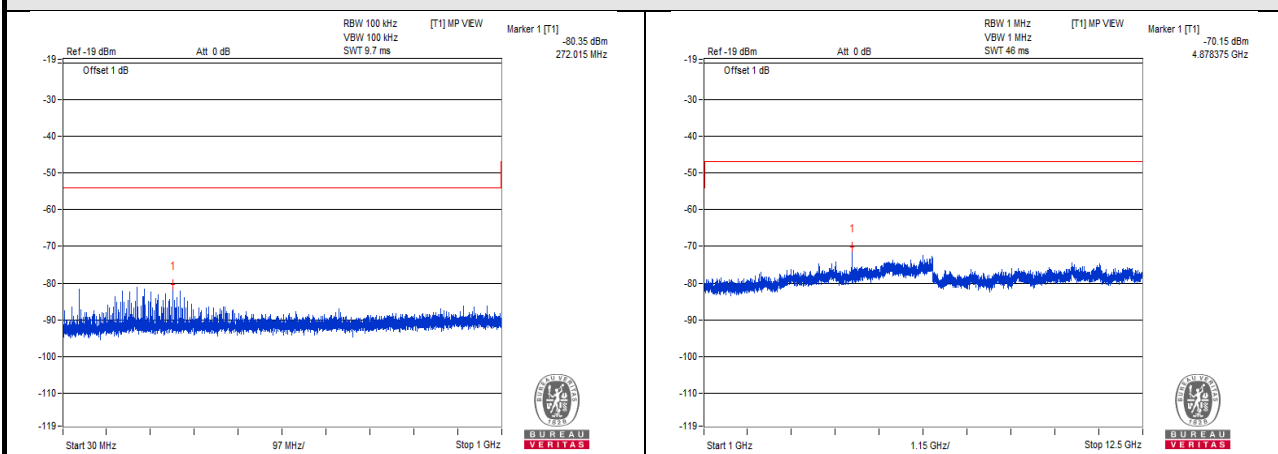
V_{normal}



V_{max.}

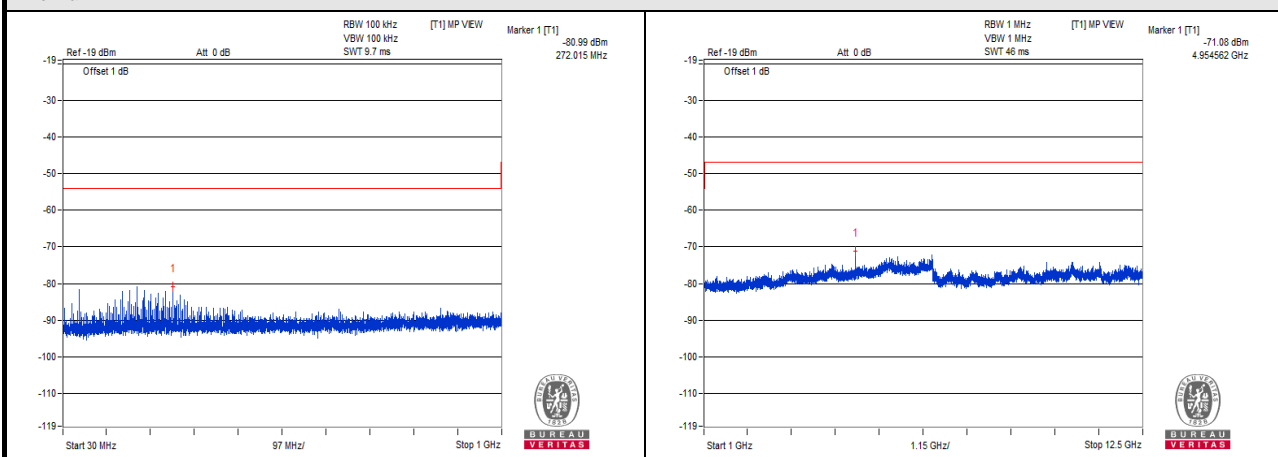


V_{min.}

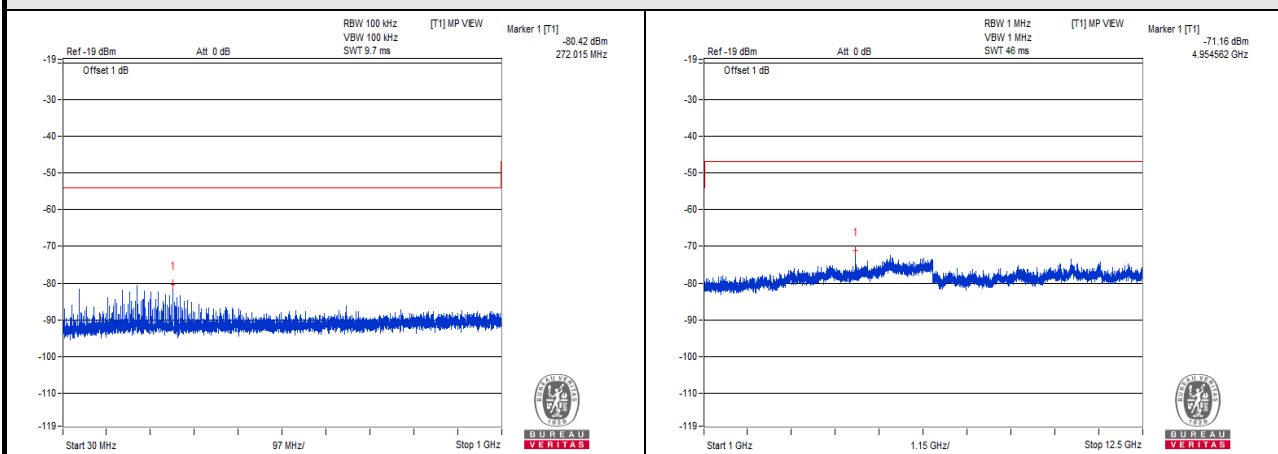


CH 39 (2441MHz)

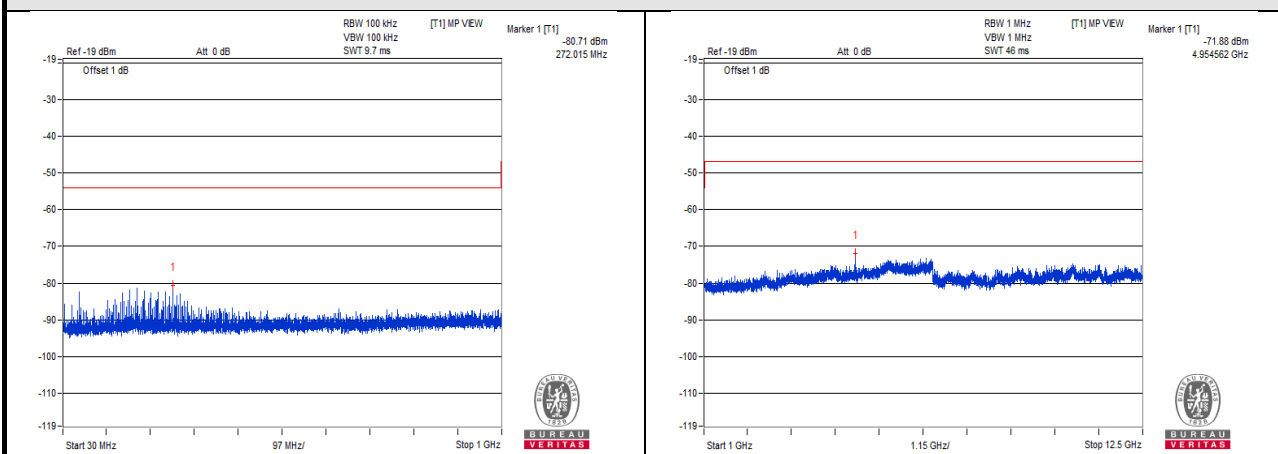
V_{normal}



V_{max}



V_{min}



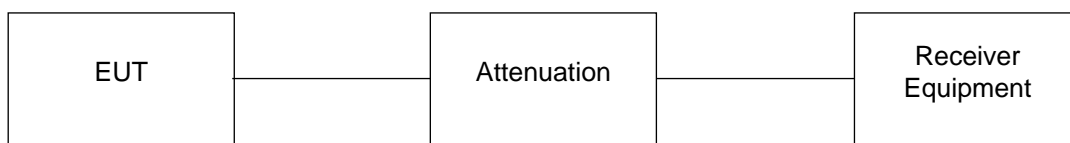
CH 77 (2479MHz)

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.

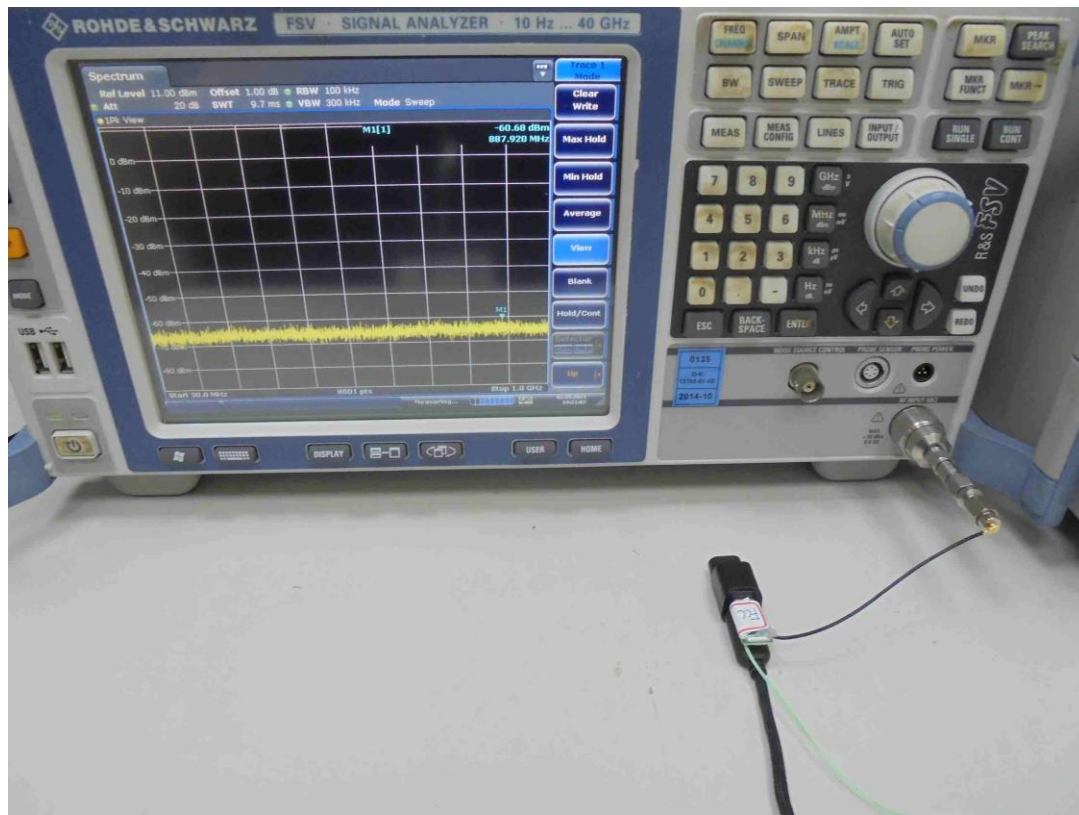
4.6.2 Test Setup



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.

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

Web Site: 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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