

Radio Test Report

Report No.: RJBHWX-WTW-P21060926-2

Test Model: S37

Received Date: Dec. 28, 2021

Test Date: Jan. 18 ~ Jan. 20, 2022

Issued Date: Mar. 23, 2022

Applicant: Sonos, Inc.

Address: 614 Chapala Street, Santa Barbara, California 93101

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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33383, TAIWAN



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Release Control Record

Issue No.	Description	Date Issued
RJBHWX-WTW-P21060926-2	Original release	Mar. 23, 2022

1 Certificate of Conformity

Product: Wireless Smart Speaker

Brand: Sonos

Test Model: S37

Sample Status: Engineering sample

Applicant: Sonos, Inc.

Test Date: Jan. 18 ~ Jan. 20, 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:** Mar. 23, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Mar. 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)	4.4	Spurious emissions	C
Transmitting Equipment				
F	3.2 (2)	4.5	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)	4.6	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)	4.5	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)	4.3	Spreading bandwidth	NA
--	3.2 (9)	4.3	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.7	Interference Prevention Function	C
Note: 1. 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 / Rohde & Schwarz	FSV40	100980	Apr. 14, 2021	Apr. 13, 2022	ETC	c)
Spectrum Analyzer / Rohde & Schwarz	FSU43	100115	Feb. 03, 2021	Feb. 02, 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)
AC Power Supply / Extech	6905S	1991553	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	491.896Hz
Spurious emissions	2.208dB
Output power density	2.889dB
Out of band radiated power	3.93dB
Frequency Tolerance	6805.18Hz

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	Wireless Smart Speaker
Brand	Sonos
Test Model	S37
Status of EUT	Engineering sample
Nominal Voltage	100Vac
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Rated RF Output Power	1.00mW
Conducted RF Output Power	0.778mW
Radiated RF Output Power	2.193mW
Antenna Type	Etched IFA antenna with 4.5 dBi gain
Antenna Connector	NA
Accessory Device	NA
Cable Supplied	1.9m non-shielded power cord with two cores

Note: 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.

3.2 Description of Test Modes

40 channels are provided to this EUT:

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: 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 (Run Compliance GUI Kapital.vi 20.0.1) provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power Setting
0	default
19	default
39	default

3.3 Test Conditions

Test Conditions	Voltage (Vac)
Vnormal	100
Vmax.	110
Vmin.	90

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 $\pm 1\%$ when input voltage from an external supply into the equipment fluctuates $\pm 10\%$, therefore, the test is carried out only at the normal voltage.

Test Item	Test Conditions	Environmental Conditions	Test Engineer
Frequency Tolerance	BT LE 4.0	25 deg.C, 60 % RH	Jisyong Wang
Occupied Bandwidth (99% power bandwidth)	BT LE 4.0	25 deg.C, 60 % RH	Jisyong Wang
Spurious Emissions for Transmitter	BT LE 4.0	25 deg.C, 60 % RH	Jisyong Wang
Antenna Power	BT LE 4.0	25 deg.C, 60 % RH	Jisyong Wang
Spurious Emissions for Receiver	BT LE 4.0	25 deg.C, 60 % RH	Jisyong Wang

3.4 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 open.

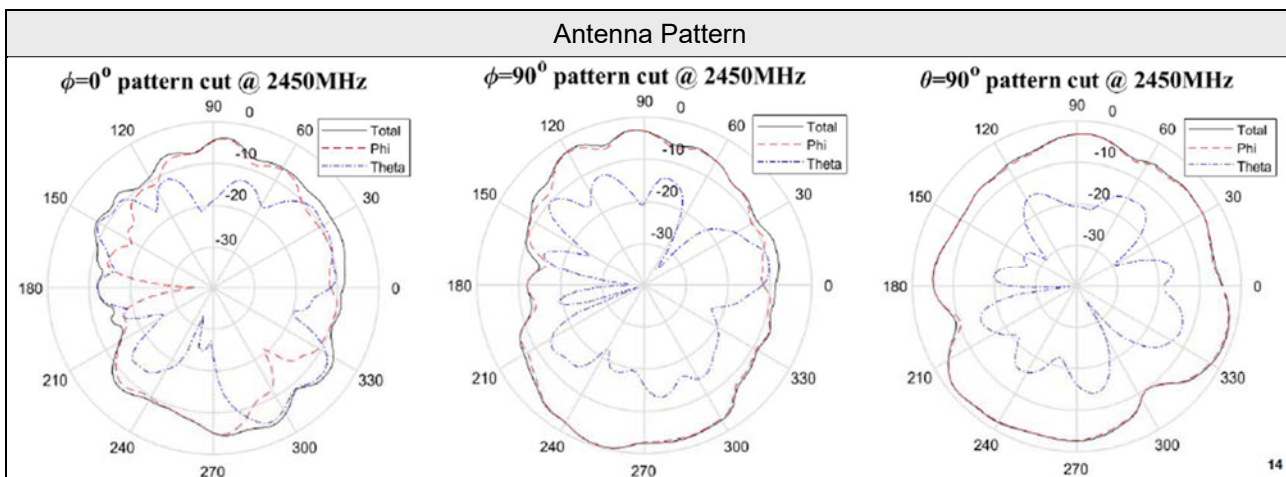
3.5 Antenna Specifications

3.5.1 Antenna Gain

Type	Connector	Gain (dBi)
Etched IFA antenna	NA	4.5

* 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



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	2402.010240	4.263	2402.010100	4.204	2402.010150	4.225
19	2440	2440.009710	3.979	2440.009570	3.922	2440.009570	3.922
39	2480	2480.010100	4.072	2480.010100	4.072	2480.010100	4.072

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

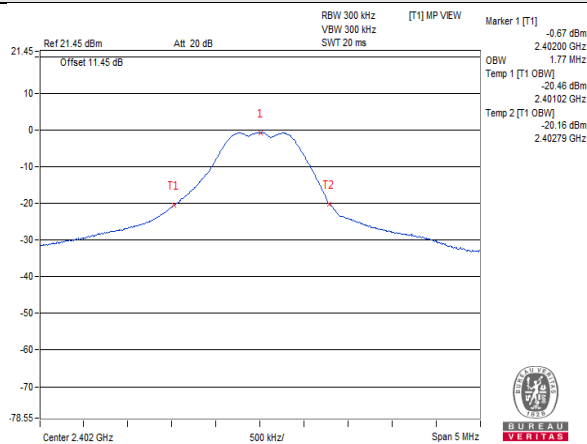


4.2.3 Test Results

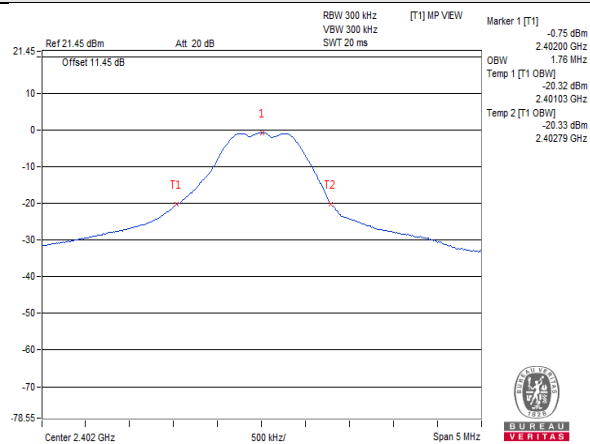
Channel	Frequency (MHz)	V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
0	2402	1.77	1.76	1.77
19	2440	1.76	1.76	1.76
39	2480	1.77	1.76	1.76

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

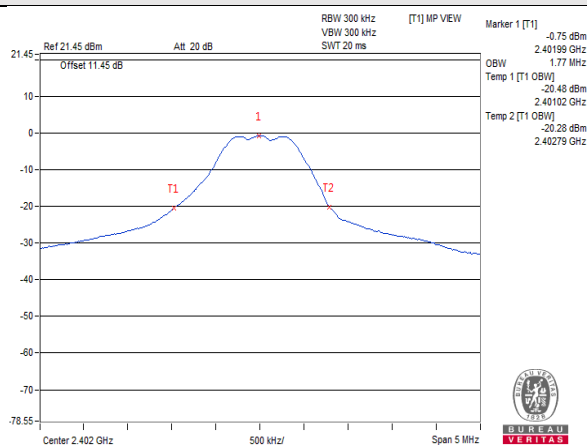
V_{normal}



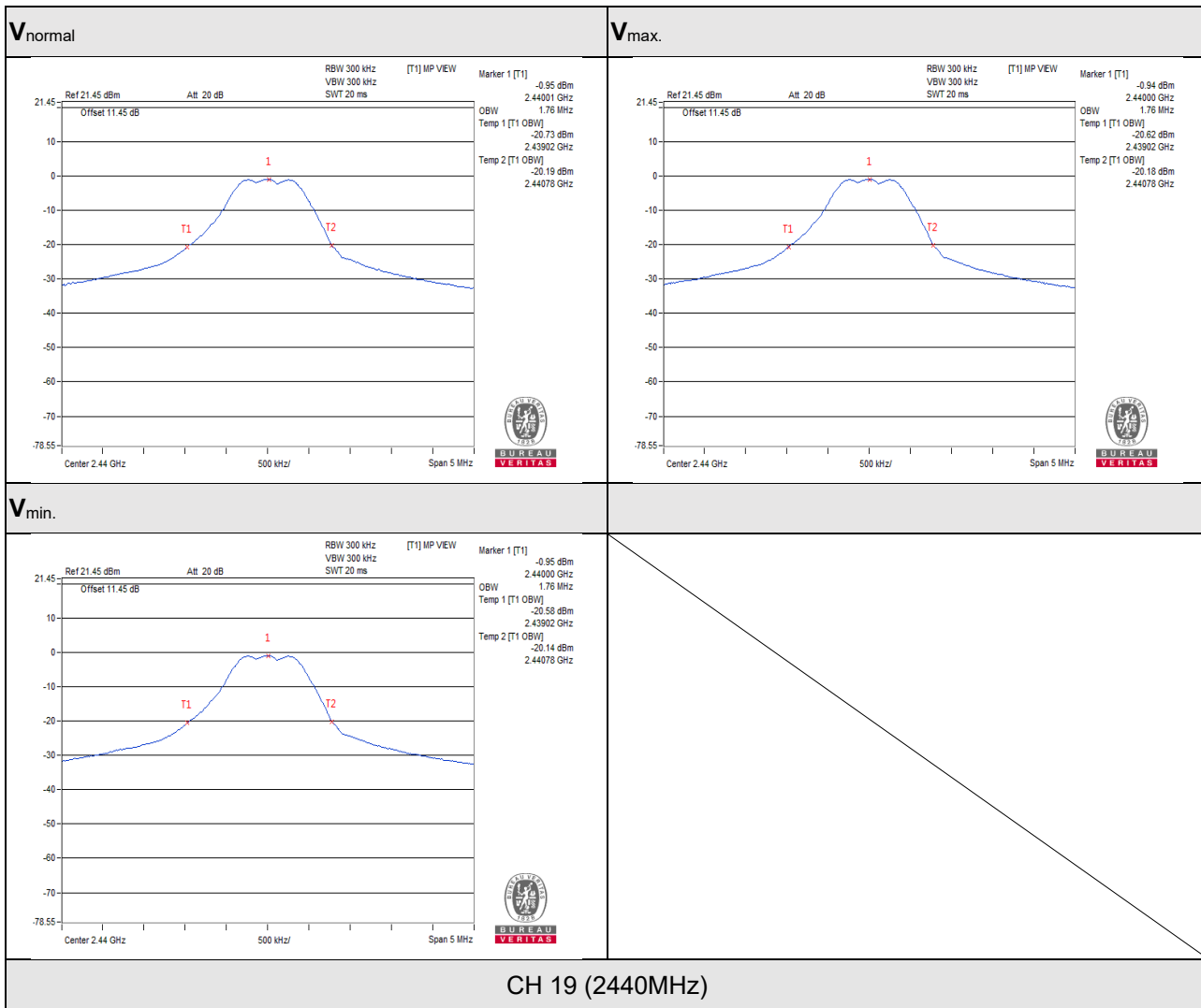
V_{max.}

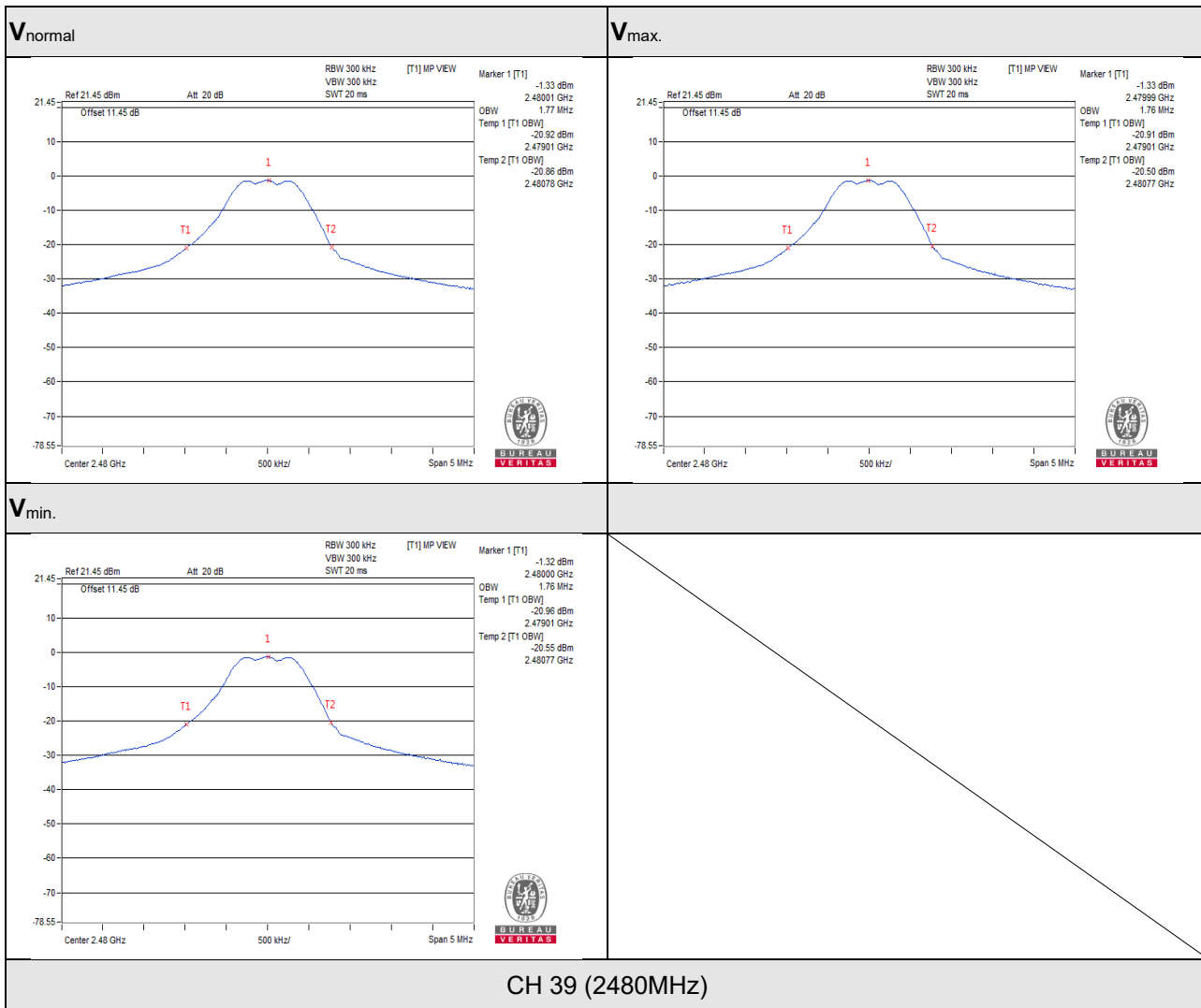


V_{min.}



CH 0 (2402MHz)





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)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	165.557	0.000569	0.25	Pass
	1000 to 2387	2386.479	0.184927	2.5	Pass
	2387to 2400	2399.996	1.701152	25	Pass(1)
	2483.5 to 2496.5	2485.474	0.031261	25	Pass
	2496.5 to 12500	12139.874	0.032063	2.5	Pass
V_{max.}	30 to 1000	463.953	0.000644	0.25	Pass
	1000 to 2387	2385.439	0.162930	2.5	Pass
	2387to 2400	2399.998	1.707140	25	Pass(2)
	2483.5 to 2496.5	2485.983	0.031333	25	Pass
	2496.5 to 12500	11660.956	0.031989	2.5	Pass
V_{min.}	30 to 1000	630.066	0.000573	0.25	Pass
	1000 to 2387	2387.000	0.179887	2.5	Pass
	2387to 2400	2399.993	1.674799	25	Pass(3)
	2483.5 to 2496.5	2495.180	0.028379	25	Pass
	2496.5 to 12500	11658.455	0.030620	2.5	Pass

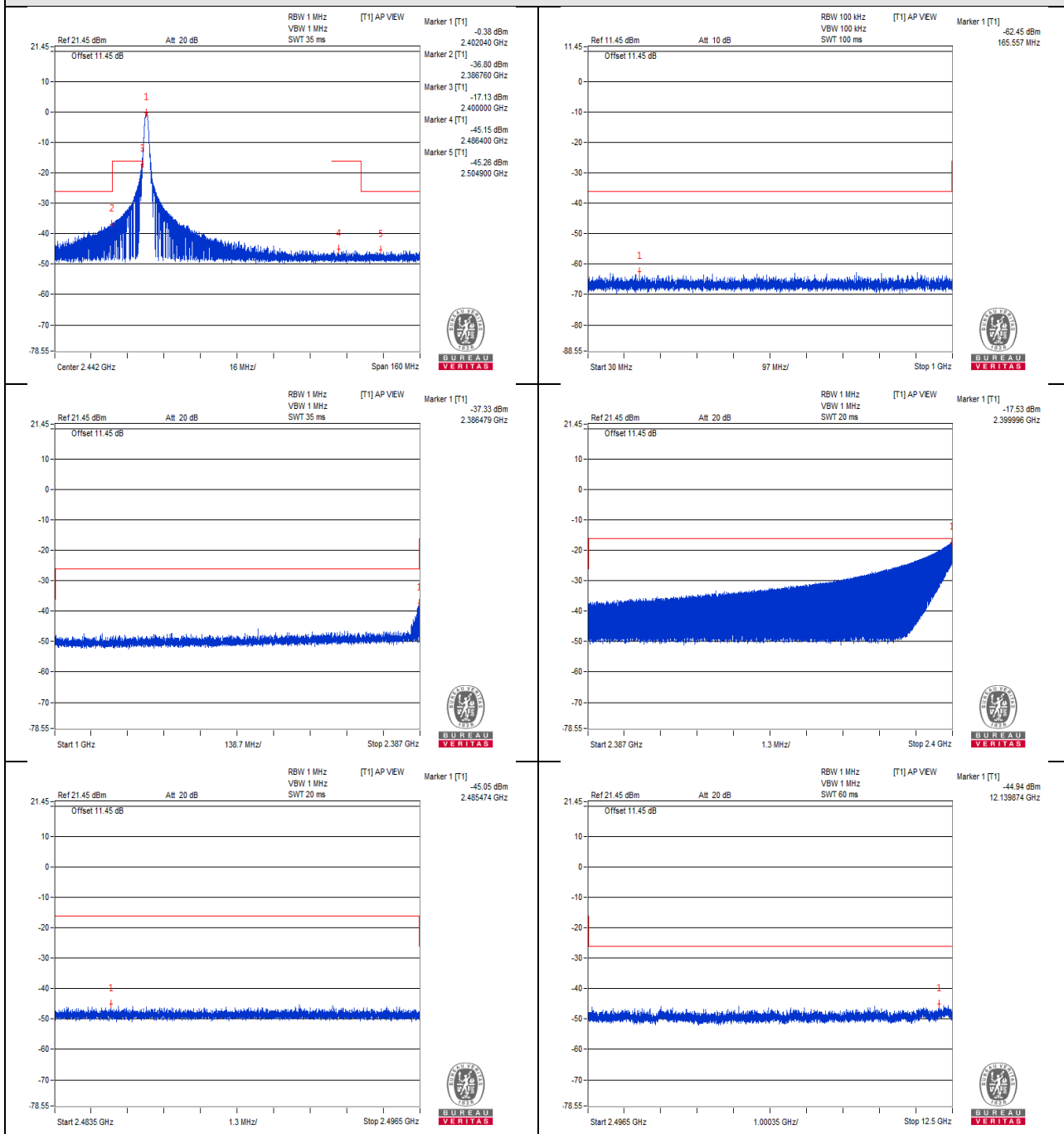
Test Channel		CH 19 (2440MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	95.232	0.000502	0.25	Pass
	1000 to 2387	2383.879	0.026424	2.5	Pass
	2387to 2400	2398.163	0.042954	25	Pass
	2483.5 to 2496.5	2484.501	0.043954	25	Pass
	2496.5 to 12500	11699.719	0.028708	2.5	Pass
V_{max.}	30 to 1000	348.160	0.000542	0.25	Pass
	1000 to 2387	2146.182	0.027669	2.5	Pass
	2387to 2400	2399.868	0.048529	25	Pass
	2483.5 to 2496.5	2484.278	0.043152	25	Pass
	2496.5 to 12500	7689.566	0.029376	2.5	Pass
V_{min.}	30 to 1000	128.697	0.000532	0.25	Pass
	1000 to 2387	2370.876	0.029242	2.5	Pass
	2387to 2400	2399.338	0.050582	25	Pass
	2483.5 to 2496.5	2489.881	0.042560	25	Pass
	2496.5 to 12500	12348.697	0.029512	2.5	Pass

Test Channel		CH 39 (2480MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (uW)	Limit (uW)	Result
V_{normal}	30 to 1000	927.007	0.000571	0.25	Pass
	1000 to 2387	2361.513	0.026607	2.5	Pass
	2387to 2400	2396.535	0.029309	25	Pass
	2483.5 to 2496.5	2483.500	2.716439	25	Pass
	2496.5 to 12500	2496.500	0.107895	2.5	Pass
V_{max.}	30 to 1000	165.678	0.000679	0.25	Pass
	1000 to 2387	2225.414	0.026792	2.5	Pass
	2387to 2400	2395.045	0.027040	25	Pass
	2483.5 to 2496.5	2483.516	2.703958	25	Pass
	2496.5 to 12500	2505.253	0.061235	2.5	Pass
V_{min.}	30 to 1000	617.820	0.000560	0.25	Pass
	1000 to 2387	2347.123	0.023067	2.5	Pass
	2387to 2400	2387.372	0.027797	25	Pass
	2483.5 to 2496.5	2483.509	2.685344	25	Pass
	2496.5 to 12500	2500.251	0.051642	2.5	Pass

Note:

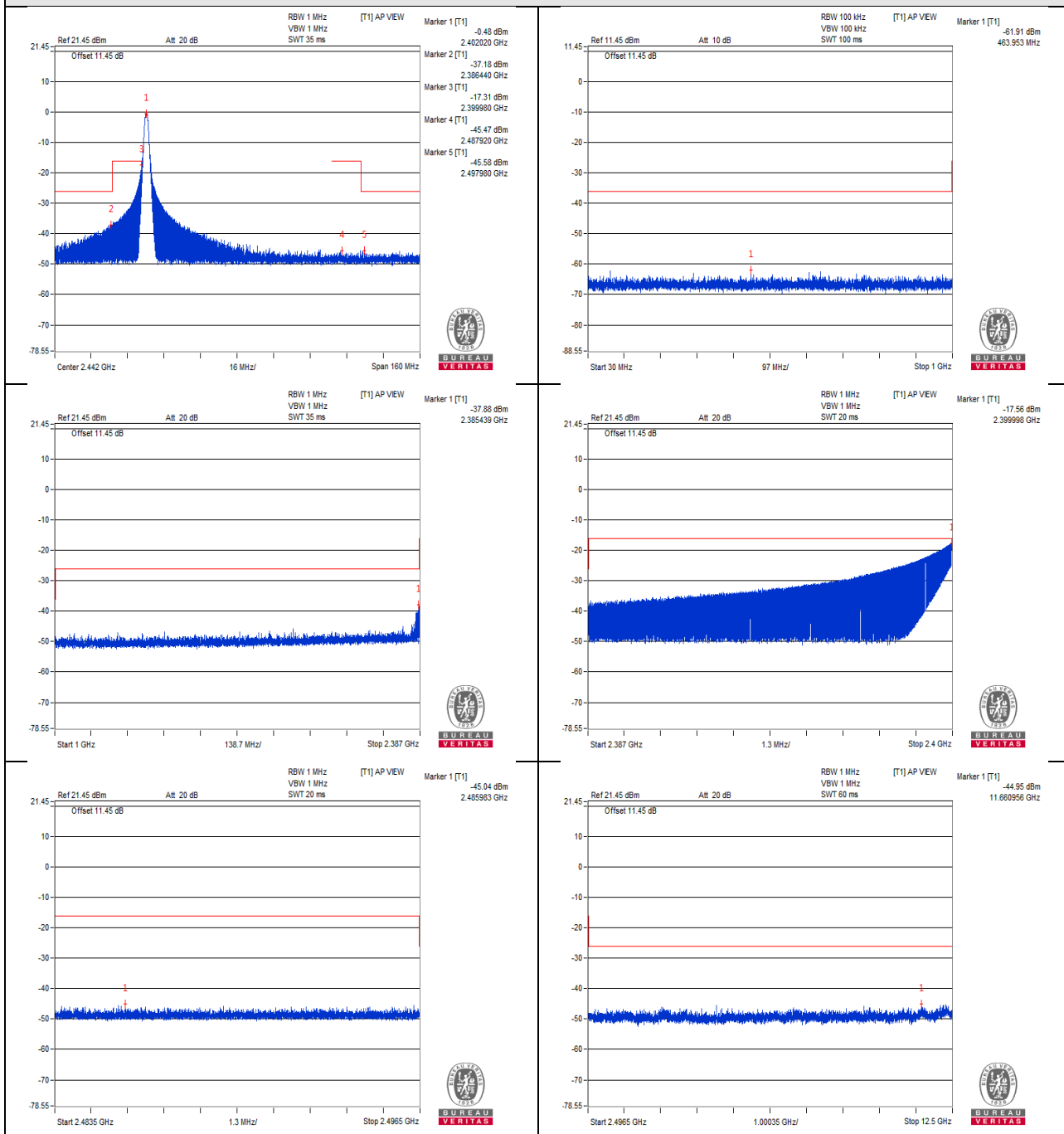
1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Vnormal



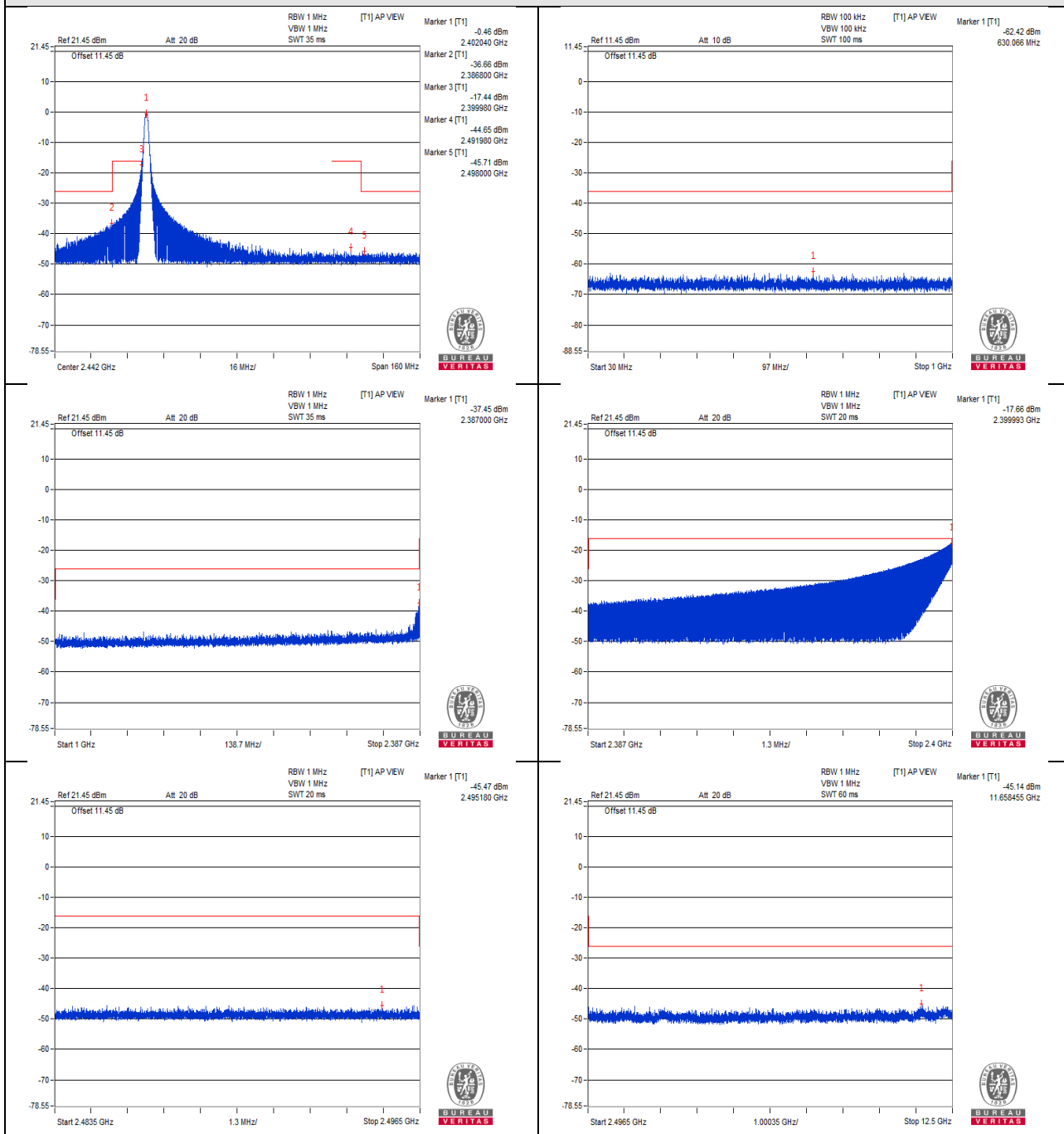
CH 0 (2402MHz)

V_{max}.



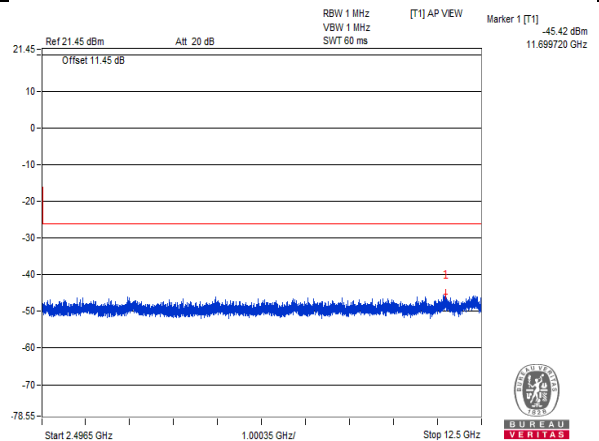
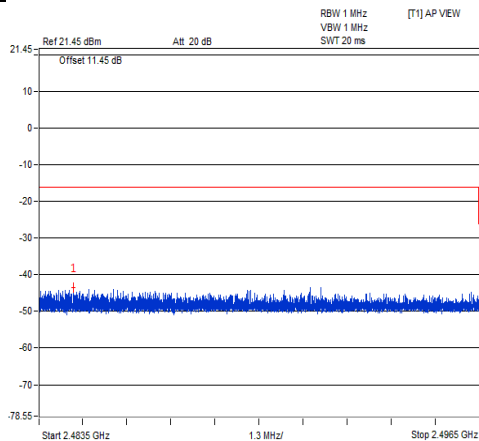
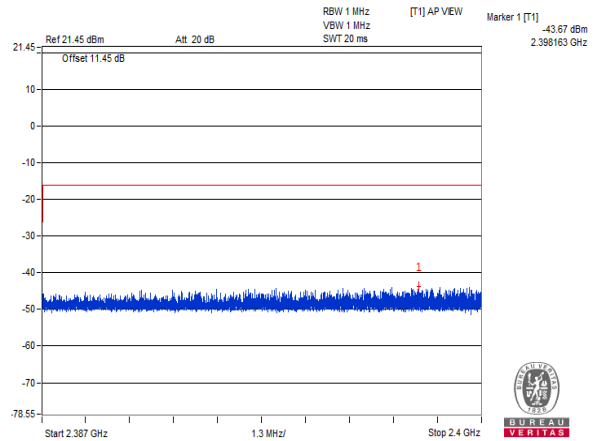
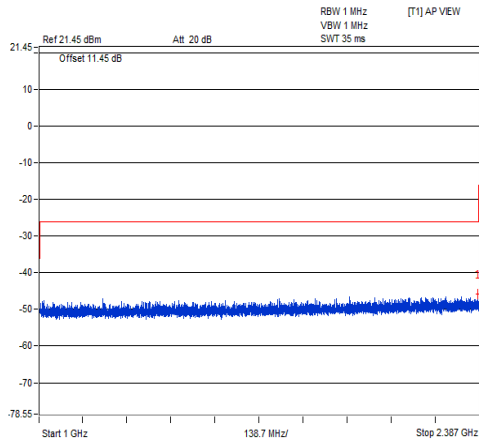
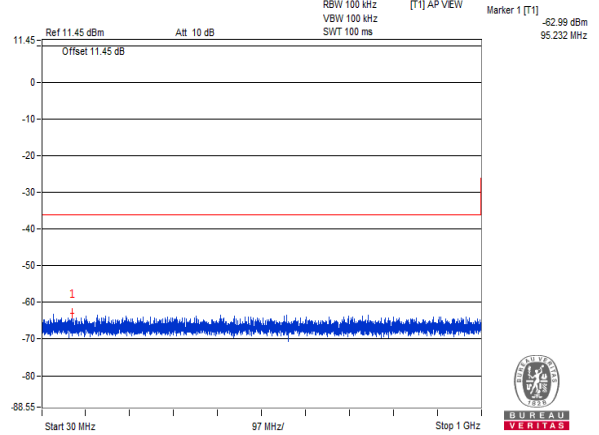
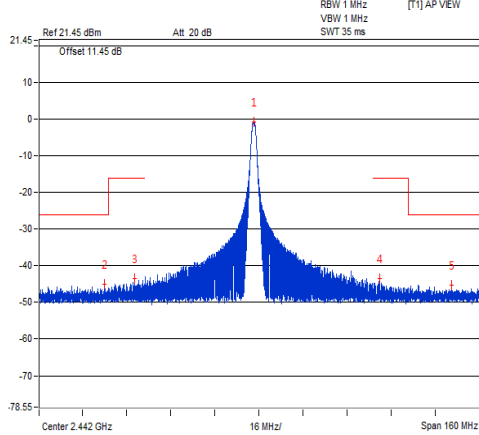
CH 0 (2402MHz)

V_{min}.



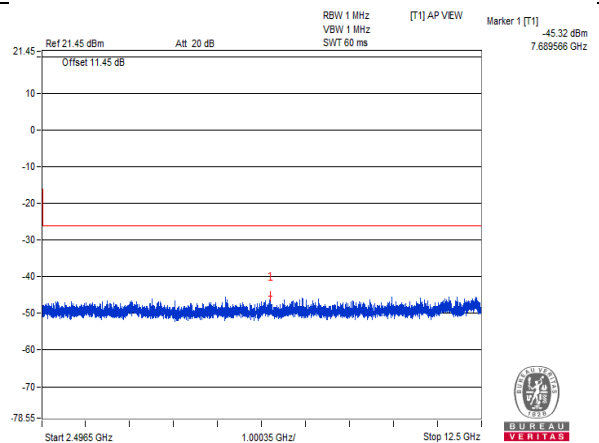
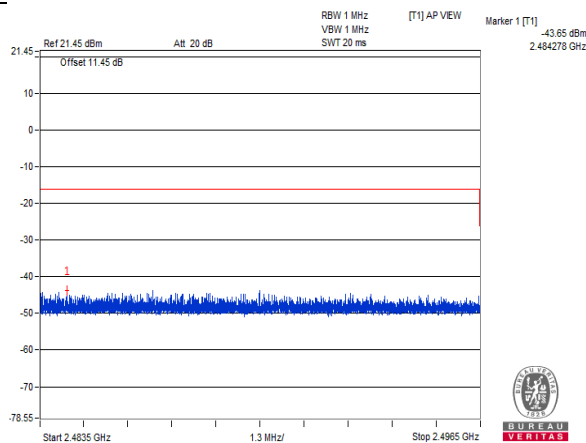
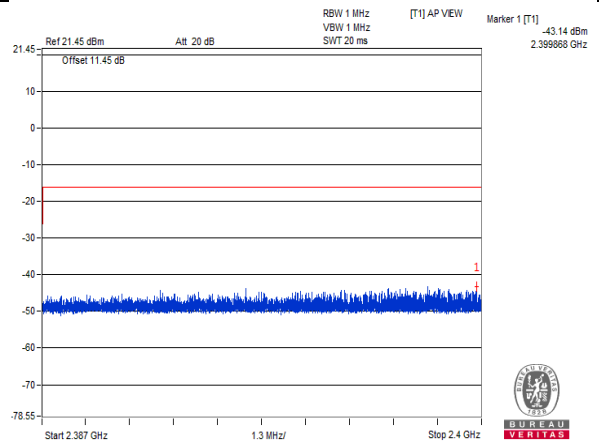
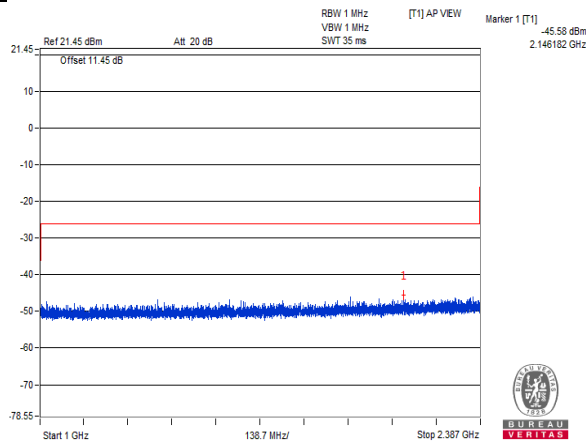
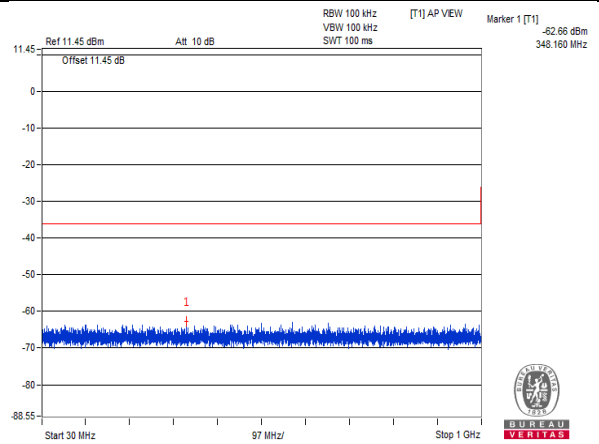
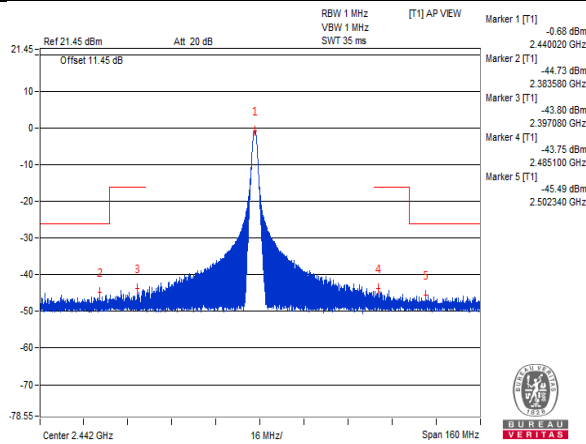
CH 0 (2402MHz)

Vnormal



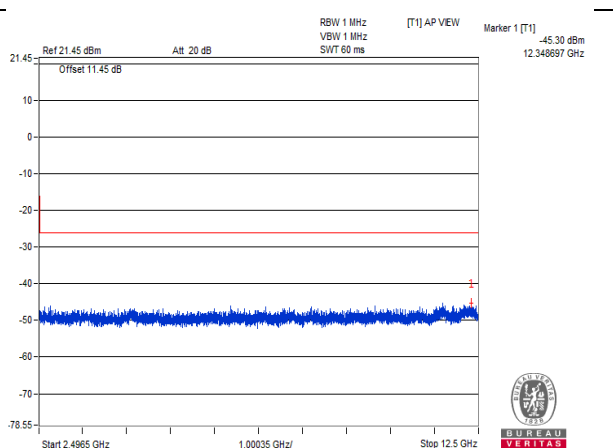
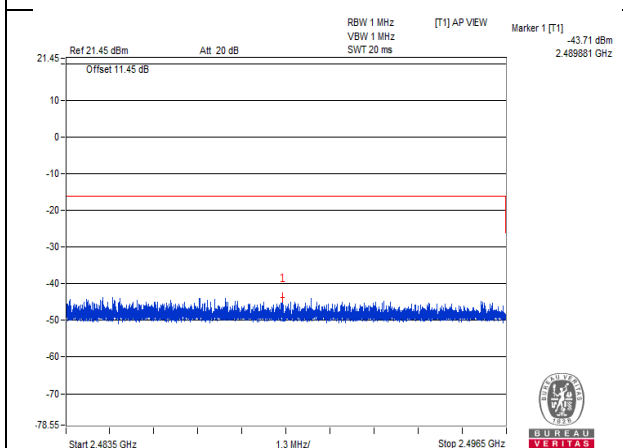
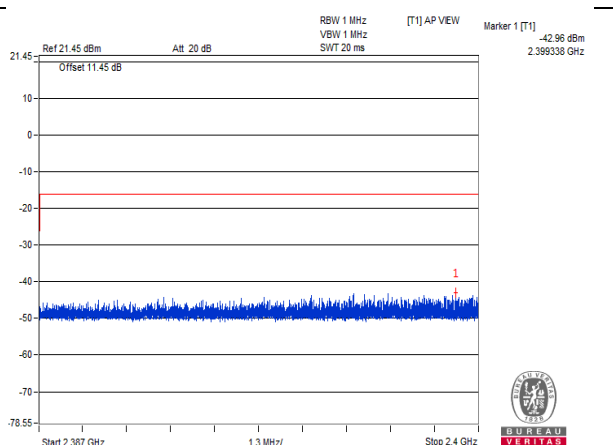
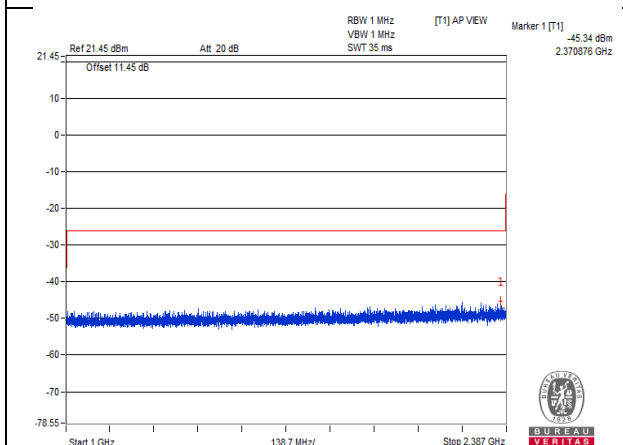
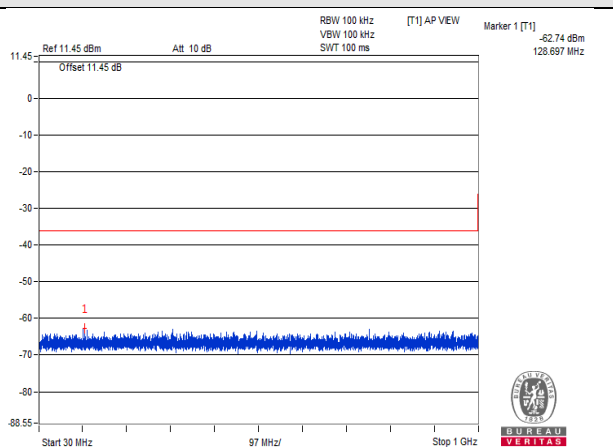
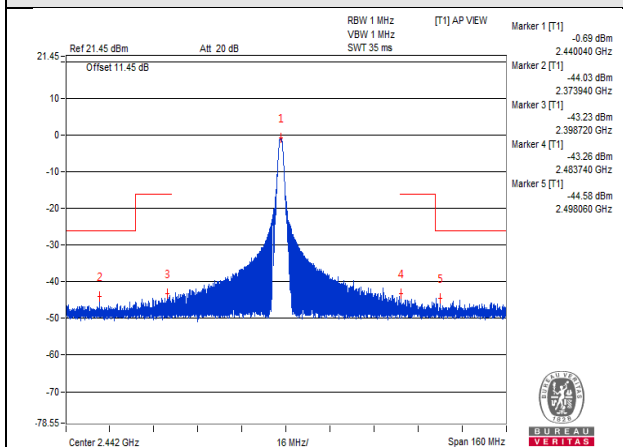
CH 19 (2440MHz)

V_{max}.



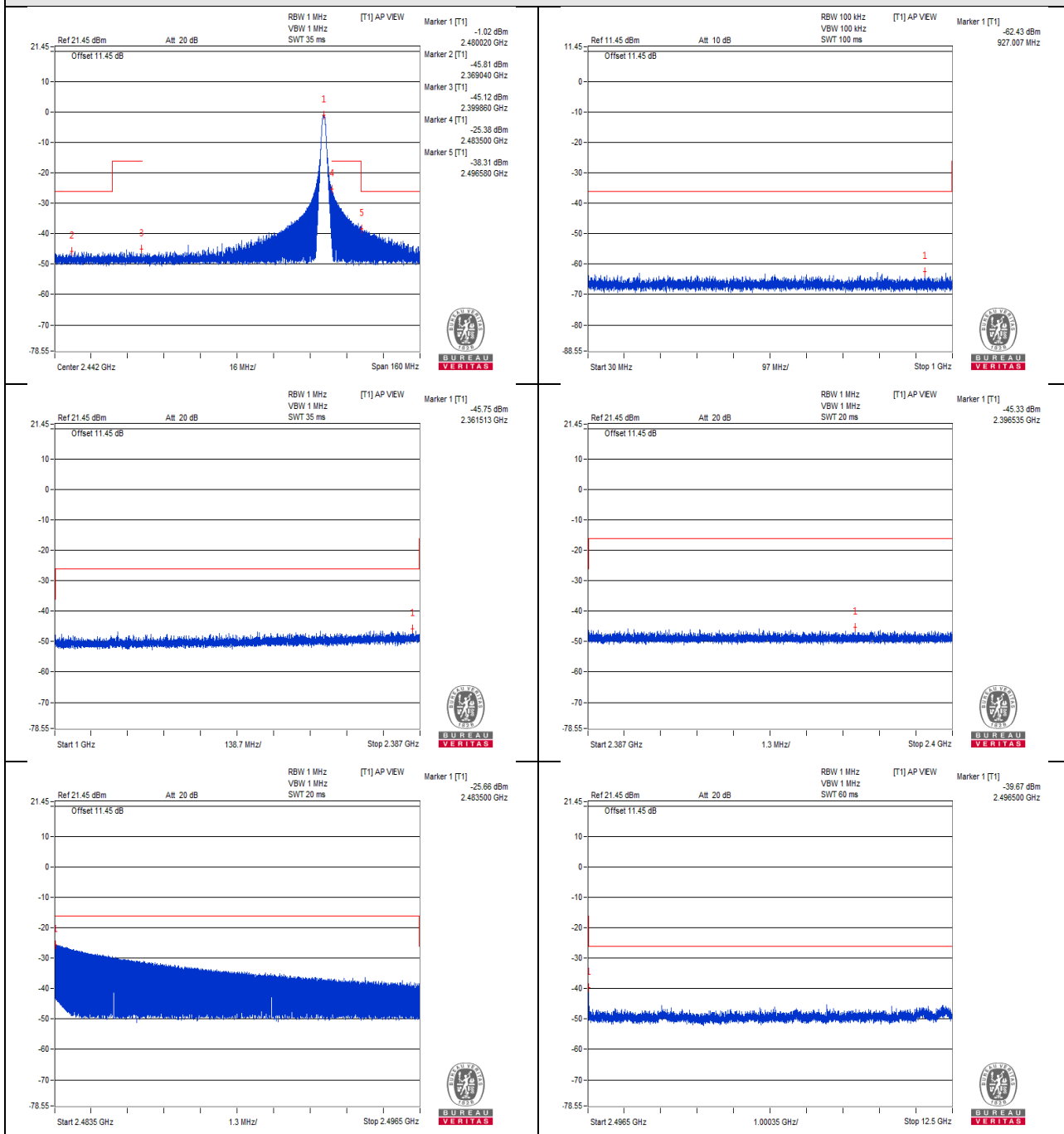
CH 19 (2440MHz)

V_{min}.



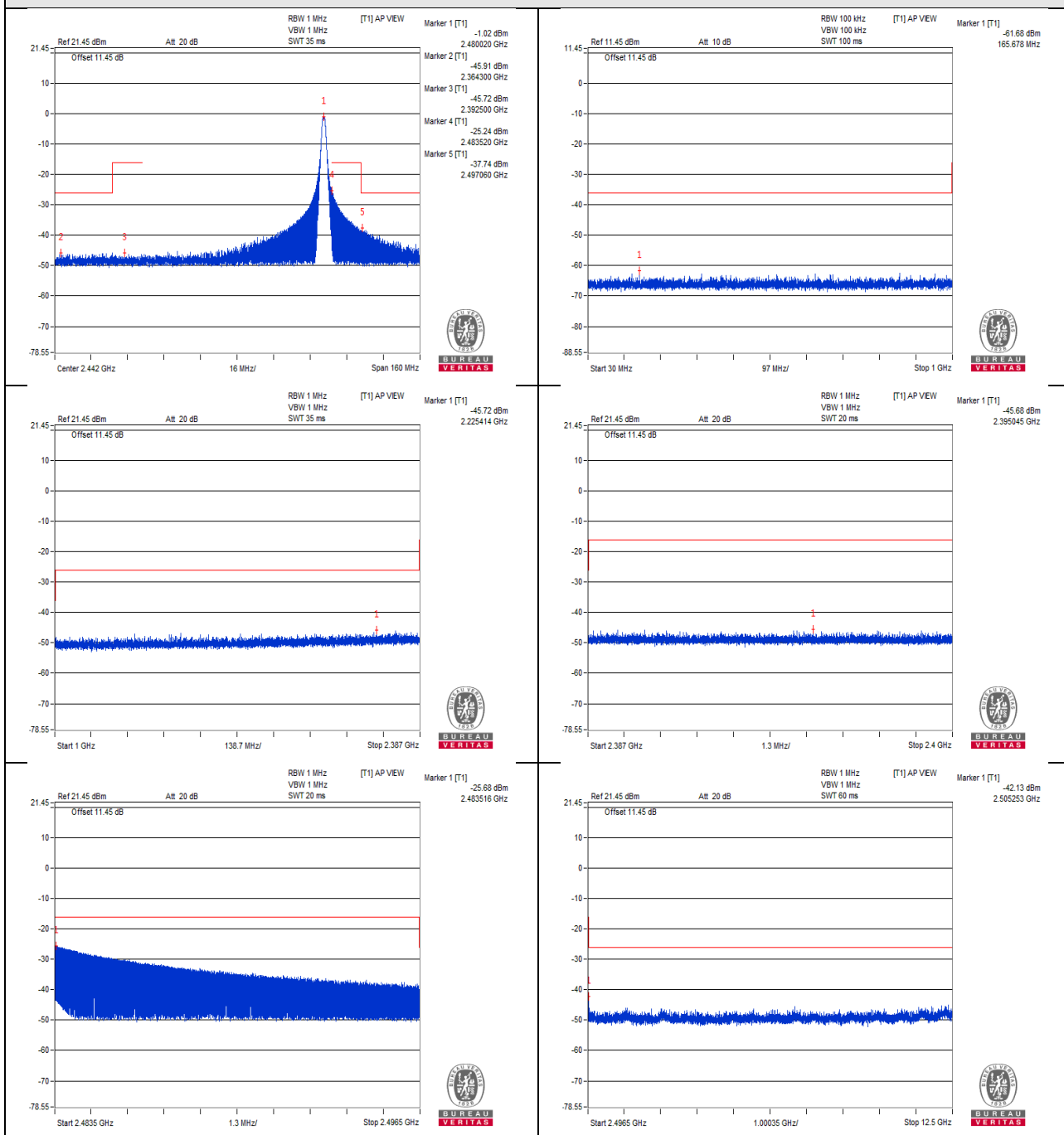
CH 19 (2440MHz)

Vnormal



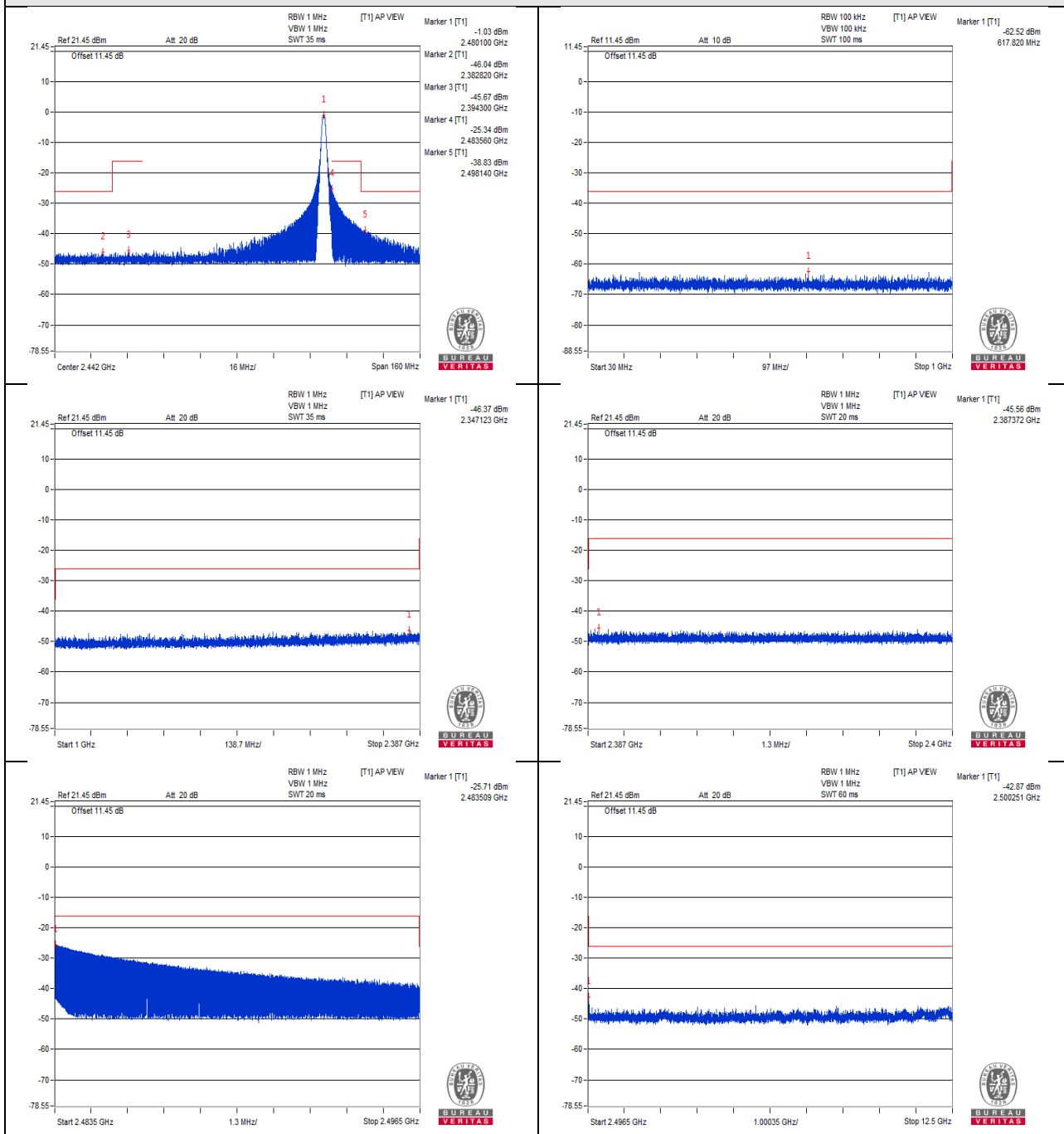
CH 39 (2480MHz)

V_{max}.



CH 39 (2480MHz)

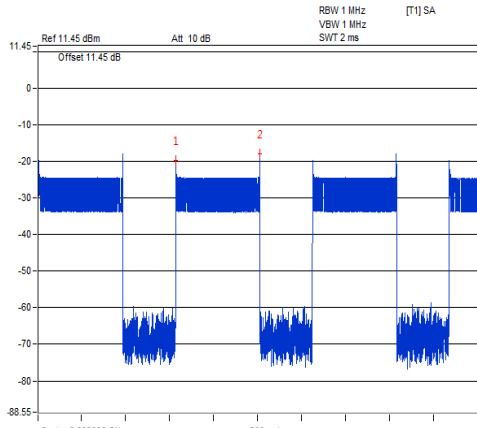
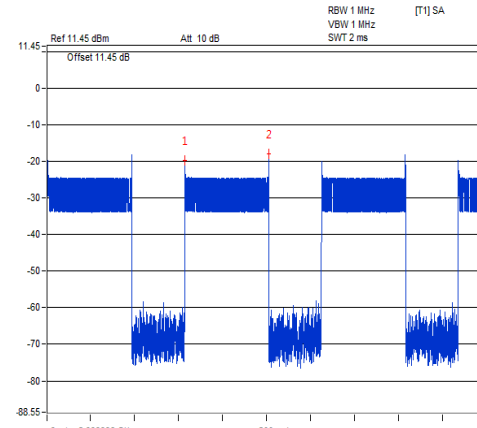
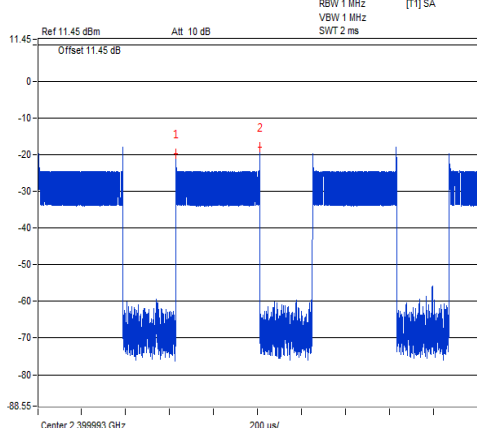
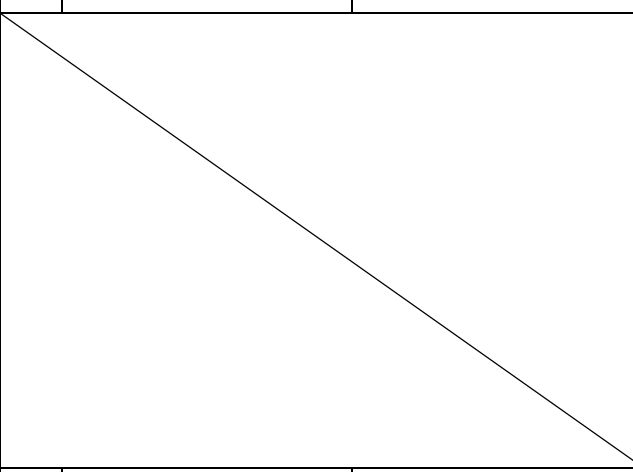
V_{min}.



CH 39 (2480MHz)

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.

					
1	2399.996MHz	P = 1.701152uW	2	2399.998MHz	P = 1.70714uW
					
3	2399.993MHz	P = 1.674799uW			

4.4 Antenna Power Measurement

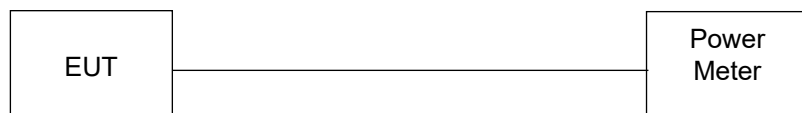
4.4.1 Limits of Antenna Power

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 = EIRP/(2.14 dBi + "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}	0	2402	0.755	2.128
	19	2440	0.735	2.072
	39	2480	0.659	1.857
V_{max.}	0	2402	0.745	2.100
	19	2440	0.718	2.024
	39	2480	0.630	1.776
V_{min.}	0	2402	0.778	2.193
	19	2440	0.716	2.018
	39	2480	0.637	1.795
Max. Limit (mW):			10	-
Rated Power (mW):			1.00	-
Tolerance of Antenna Power (mW):			0.20 ~ 1.20	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain: 4.50dBi.

2. The radiated RF output power density is a "calculated" value derived from the conducted value.

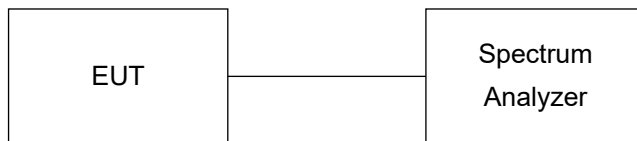
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain.

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)

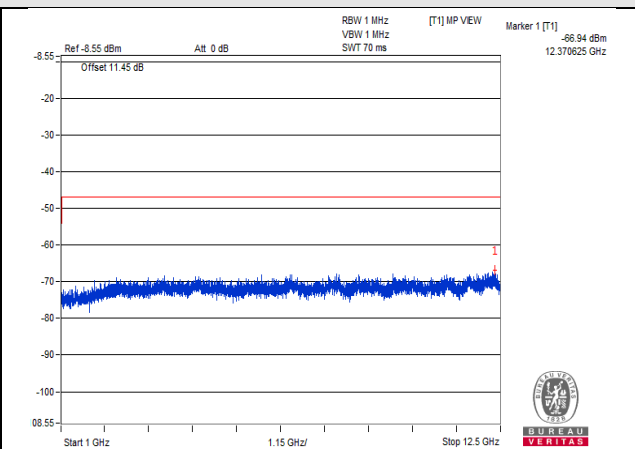
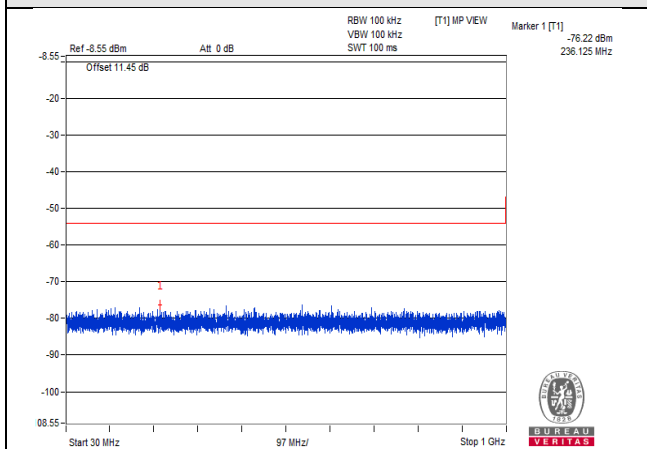
4.5.2 Test Setup



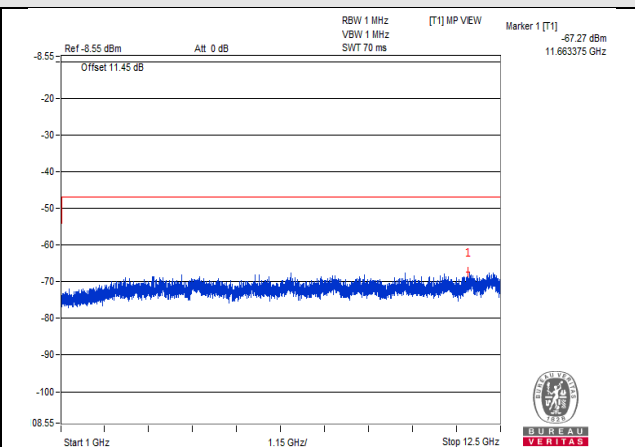
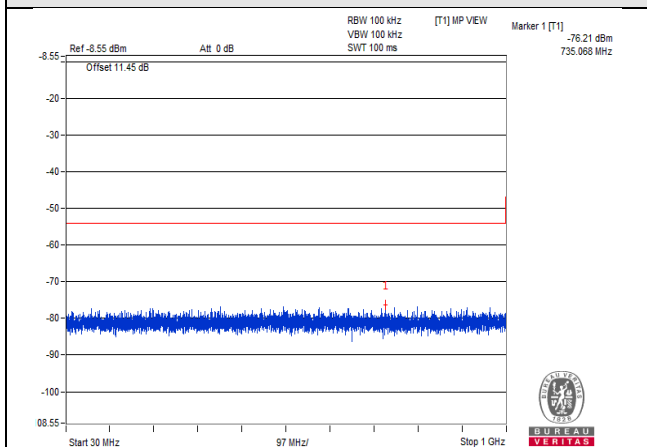
4.5.3 Test Result

Test Channel		CH 0 (2402MHz)			
Test Condition	Frequency Range (MHz)	Frequency (MHz)	Measured Value (nW)	Limit (nW)	Result
V_{normal}	30 to 1000	236.125	0.023878	4.0	Pass
	1000 to 12500	12370.625	0.202302	20.0	Pass
$V_{max.}$	30 to 1000	735.068	0.023933	4.0	Pass
	1000 to 12500	11663.375	0.187499	20.0	Pass
$V_{min.}$	30 to 1000	712.395	0.024660	4.0	Pass
	1000 to 12500	8687.750	0.188365	20.0	Pass
Test Channel		CH 19 (2440MHz)			
V_{normal}	30 to 1000	677.353	0.022336	4.0	Pass
	1000 to 12500	12344.750	0.239332	20.0	Pass
$V_{max.}$	30 to 1000	99.355	0.022080	4.0	Pass
	1000 to 12500	11709.375	0.195434	20.0	Pass
$V_{min.}$	30 to 1000	786.963	0.025942	4.0	Pass
	1000 to 12500	11243.625	0.174181	20.0	Pass
Test Channel		CH 39 (2480MHz)			
V_{normal}	30 to 1000	969.930	0.023878	4.0	Pass
	1000 to 12500	12265.687	0.217270	20.0	Pass
$V_{max.}$	30 to 1000	528.580	0.022336	4.0	Pass
	1000 to 12500	12163.625	0.195434	20.0	Pass
$V_{min.}$	30 to 1000	215.391	0.021928	4.0	Pass
	1000 to 12500	11718.000	0.241546	20.0	Pass

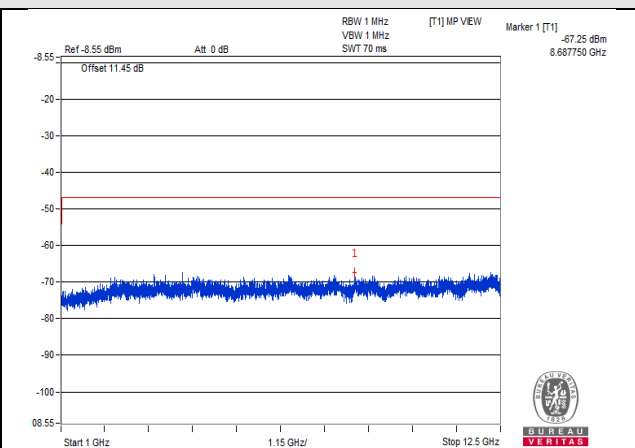
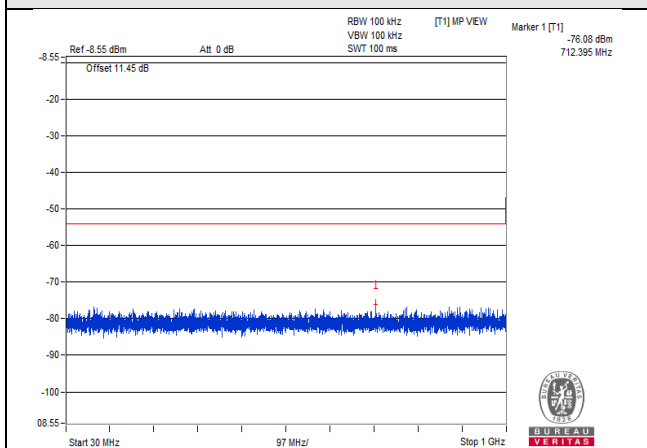
V_{normal}



V_{max}

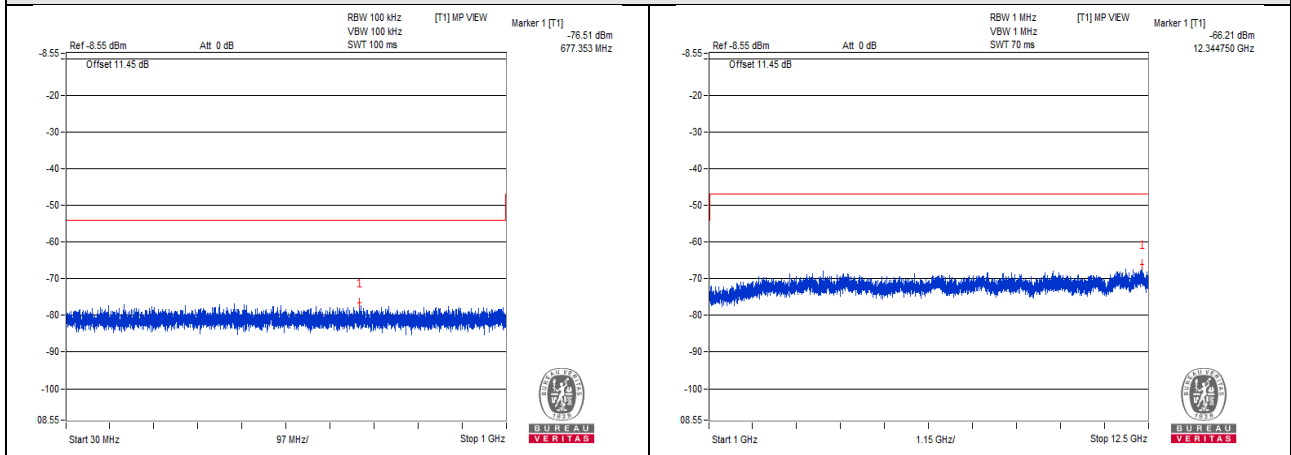


V_{min}

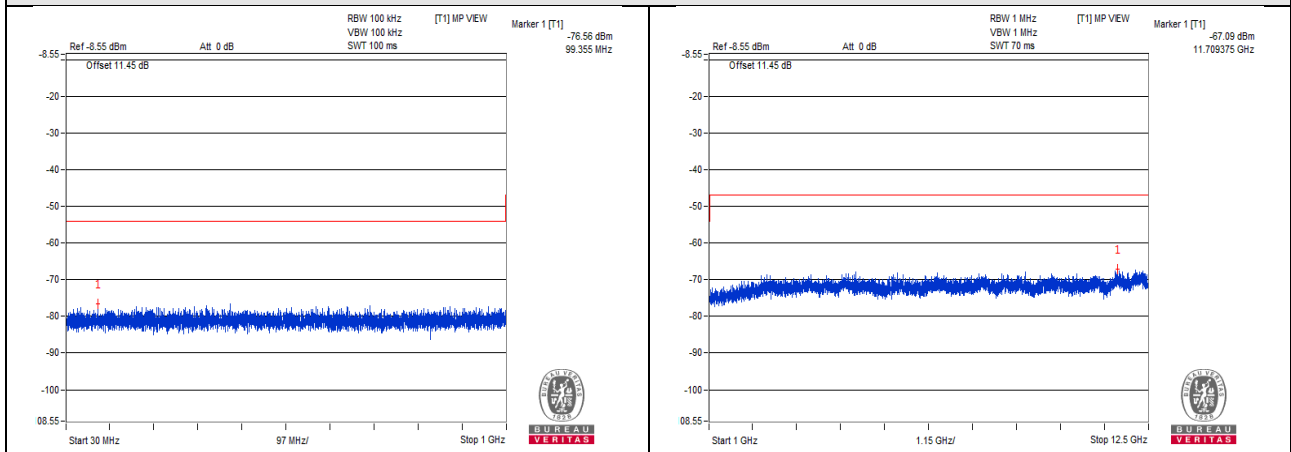


CH 0 (2402MHz)

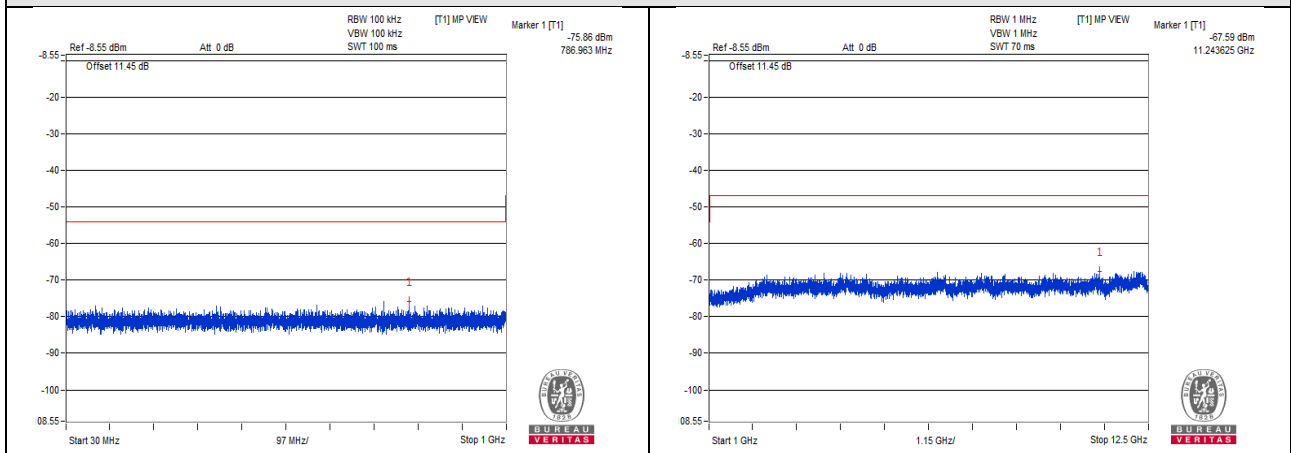
V_{normal}



V_{max}

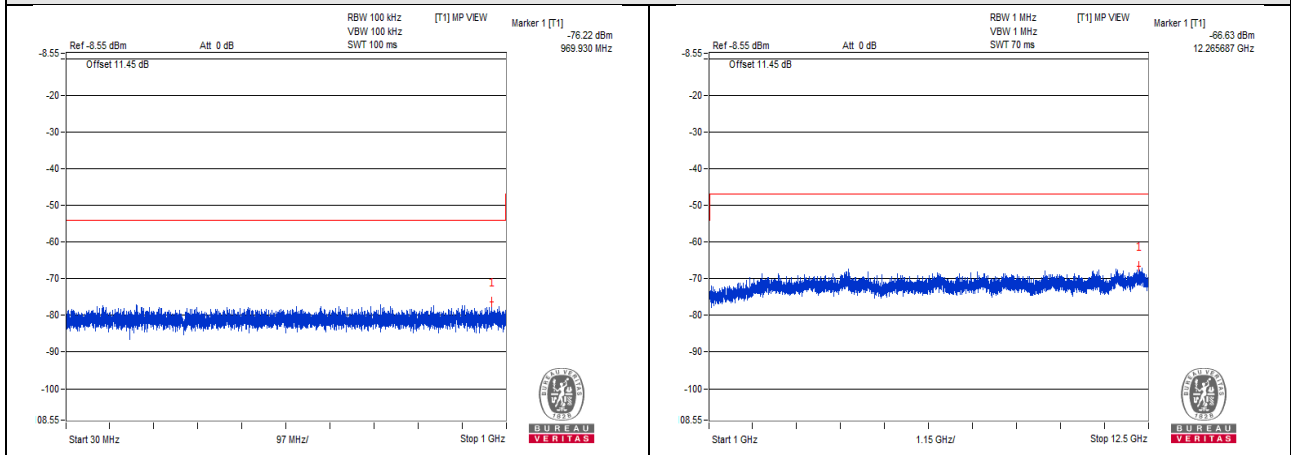


V_{min}

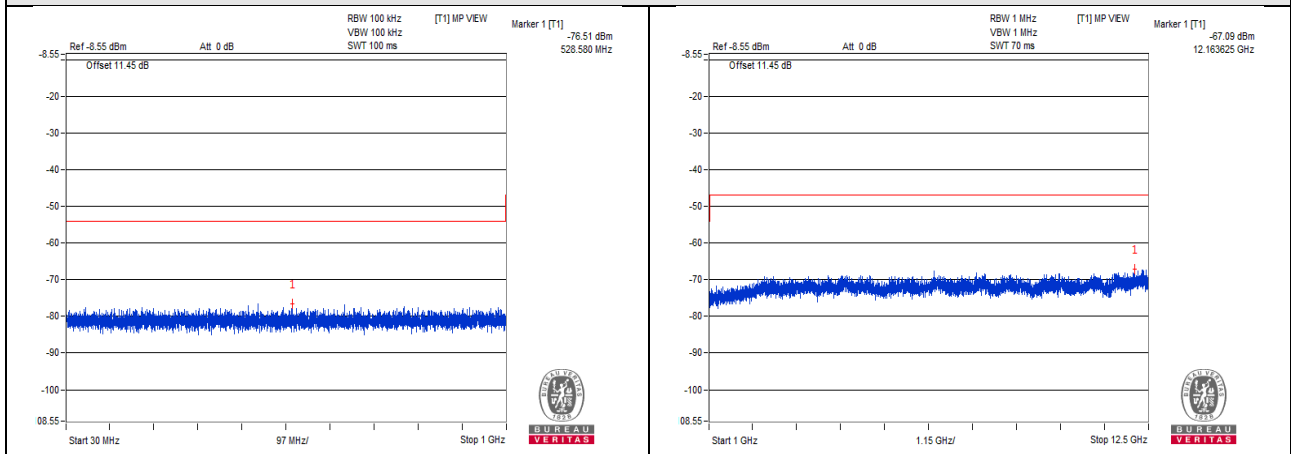


CH 19 (2440MHz)

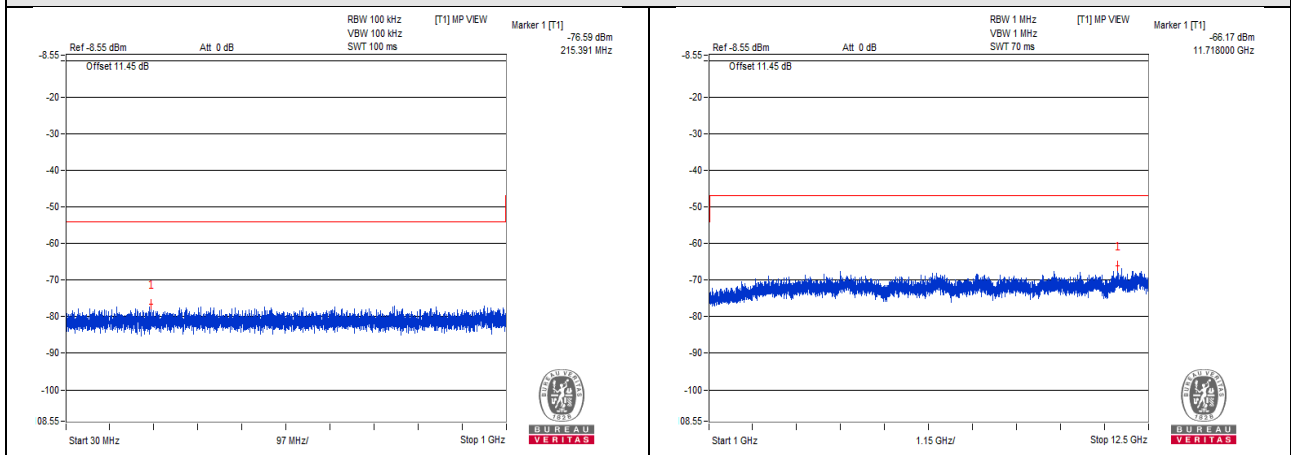
V_{normal}



V_{max}



V_{min}



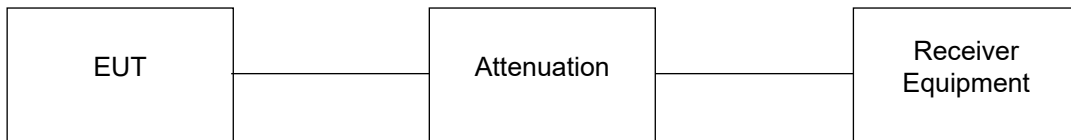
CH 39 (2480MHz)

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

NA

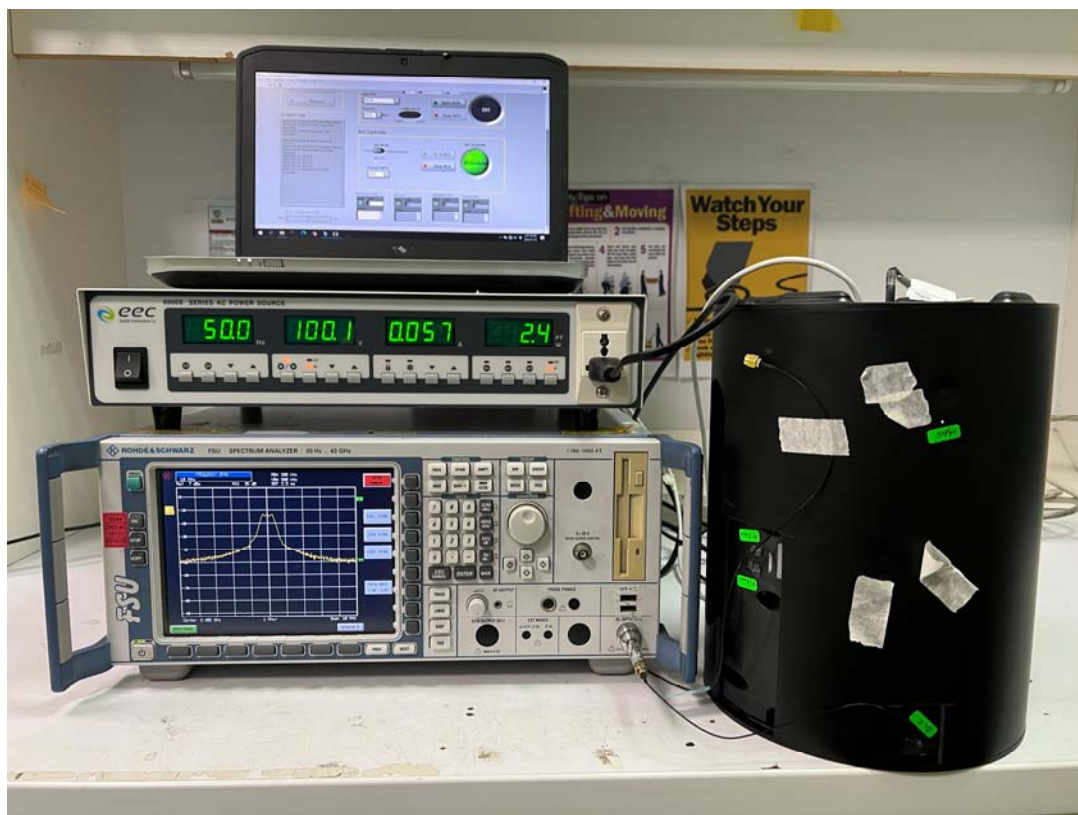
4.6.2 Test Setup



4.6.3 Test Results

Environmental Conditions	25 deg.C, 60% RH
Link Mode	Test Result
Bluetooth LE 4.0	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.

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

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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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