Radio Test Report (BT-LE)

Report No.:	RJBEOP-WTW-P21090934-2
Test Model:	CM-3/J
Received Date:	2021/9/24
Test Date:	2021/11/13
Issued Date:	2022/1/26
Applicant:	Informetis Co.,Ltd.
Address:	Round Cross 4F, 5-5-1 Shiba, Minato-ku, Tokyo, 108-0014
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

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Release Control Record

Issue No.	Description	Date Issued
RJBEOP-WTW-P21090934-2	Original release.	2022/1/26

1 Certificate of Conformity

Product:	Circuit Meter
Brand:	Informetis
Test Model:	CM-3/J
Sample Status:	Engineering sample
Applicant:	Informetis Co.,Ltd.
Test Date:	2021/11/13
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 EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** 2022/1/26

Vivian Huang / Specialist

Approved by : , **Date:** 2022/1/26

Clark Lin / 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)	4.3	Spurious emissions	C
Transmitting Equipment				
F	--	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	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
--	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	Calibration Method
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7	ETC	(c)
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	2020/11/18	2021/11/17	ETC	(c)
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20	ETC	(c)
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30	ETC	(c)
DC POWER SUPPLY Topward	6603D	795558	Note 3	Note 3	BV CPS E&E	(d)
AC Power Source GOOD WILL	6905S	1991551	Note 3	Note 3	BV CPS E&E	(d)
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1	ETC	(c)

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. 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).

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).

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

4. Tested Date: 2021/11/13

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	±960 Hz
Spurious emissions	±2.5 dB
Output power density	±1.2 dB
Out of band radiated power	±2.5 dB
Frequency Tolerance	±960 Hz

2.3 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (BT-LE)

Product	Circuit Meter
Brand	Informetis
Test Model	CM-3/J
Status of EUT	Engineering sample
Nominal Voltage	AC 100-240V
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	Up to 1Mbps
Operating Frequency	2.402 ~ 2.480GHz
Number of Channel	40
Rated RF Output Power	8 mW
Conducted RF Output Power	7.78 mW
Radiated RF Output Power	8.729 mW
Antenna Type	Refer to section 3.5
Antenna Connector	Refer to section 3.5
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are WLAN and Bluetooth technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	Bluetooth

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

40 channels are provided for BT-LE mode:

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

Note:

1. 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 (BLUE TOOL) provided by manufacturer, 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)
V_{normal}		100
$V_{max.}$	+10%	110
$V_{min.}$	-10%	90

Test mode is presented in the report as below:

Test Item	Environmental Conditions
Frequency Tolerance	25 deg.C, 60 % RH
Occupied Bandwidth	25 deg.C, 60 % RH
Spurious Emissions for Transmitter	25 deg.C, 60 % RH
Antenna Power	25 deg.C, 60 % RH
Spurious Emissions for Receiver	25 deg.C, 60 % RH

3.4 Assembly

The RF circuit is located inside EUT. The plastic enclosure is assembled by two special screws and won't be easy to be opened.

3.5 Antenna Specifications

3.5.1 Antenna Gain

Antenna No.	Brand	Model	Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	WNC	NA	0.5	2.4~2.4835	PCB	none

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.

3.5.2 Antenna Pattern

Please refer to the attached file (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	2401.998360	-0.682	2401.998359	-0.683	2401.998319	-0.699
19	2440	2440.002640	1.081	2440.002600	1.065	2440.002600	1.065
39	2480	2480.007120	2.870	2480.007080	2.854	2480.007120	2.870

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

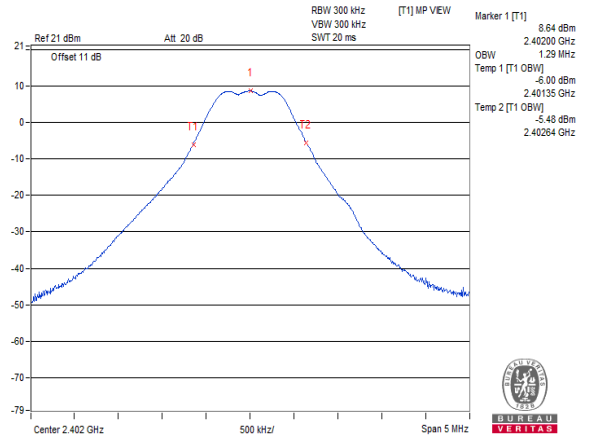
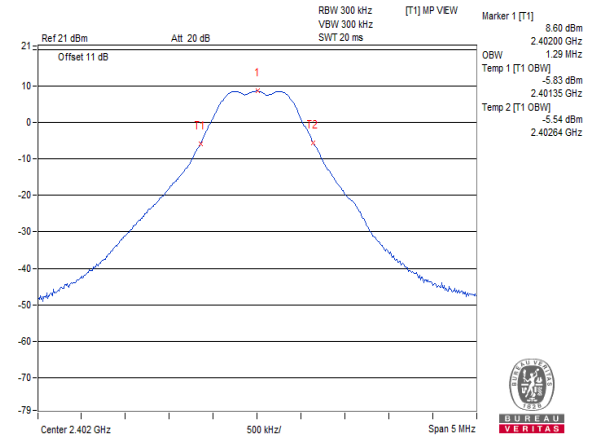
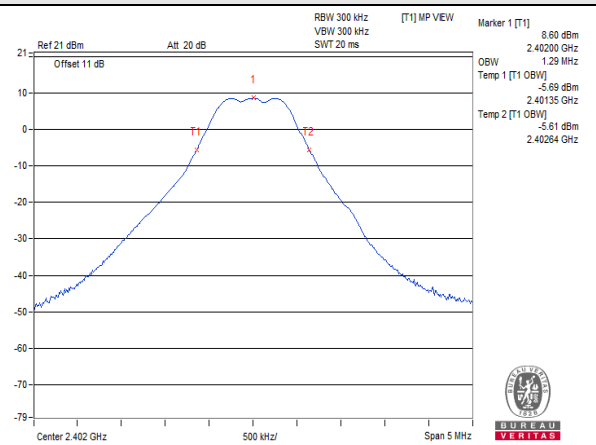
Item	Limit
Occupied bandwidth	<26MHz

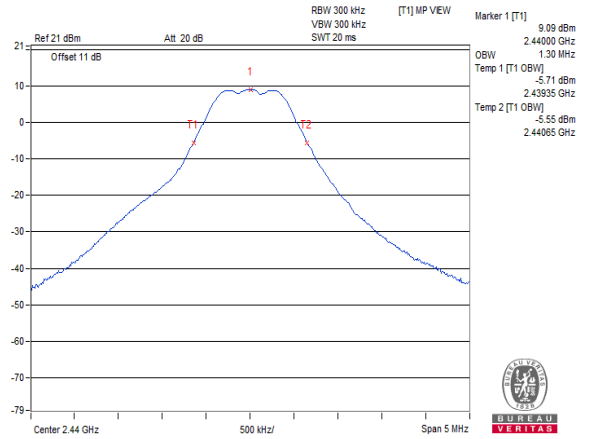
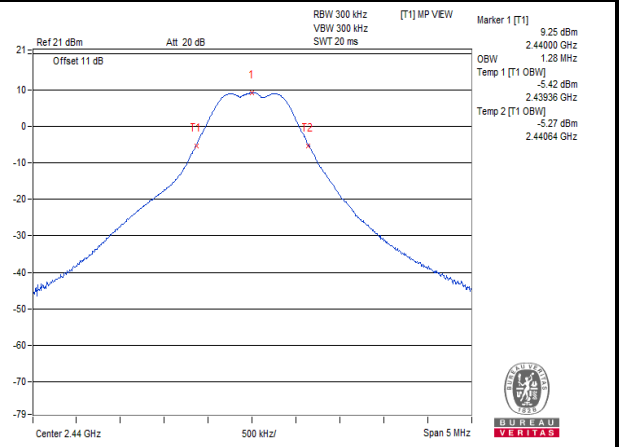
4.2.2 Test Setup

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	1.29	1.29	1.29
19	2440	1.30	1.28	1.30
39	2480	1.32	1.32	1.32

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

V_{normal}	$V_{max.}$
	
$V_{min.}$	
	
CH 0 (2402MHz)	

V_{normal}	$V_{max.}$
	
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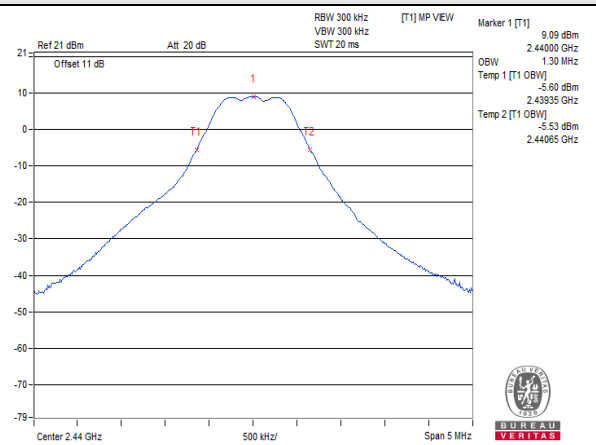
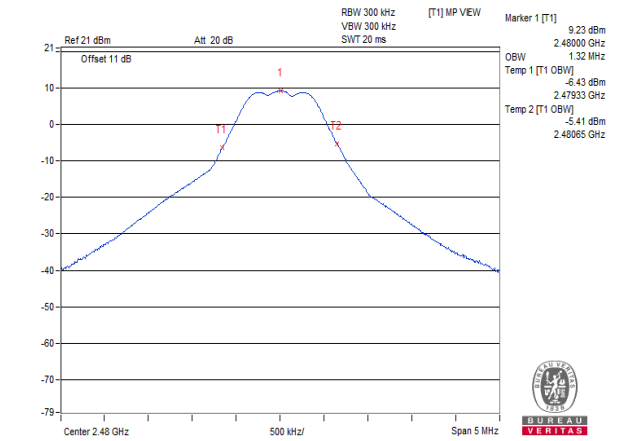
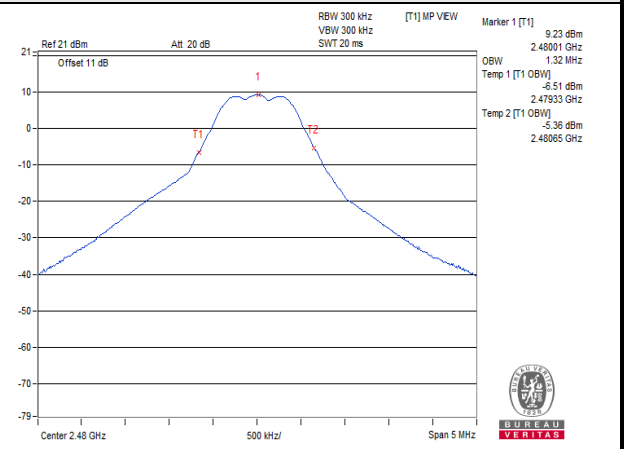
	
CH 19 (2440MHz)	

V_{normal}	$V_{max.}$
	
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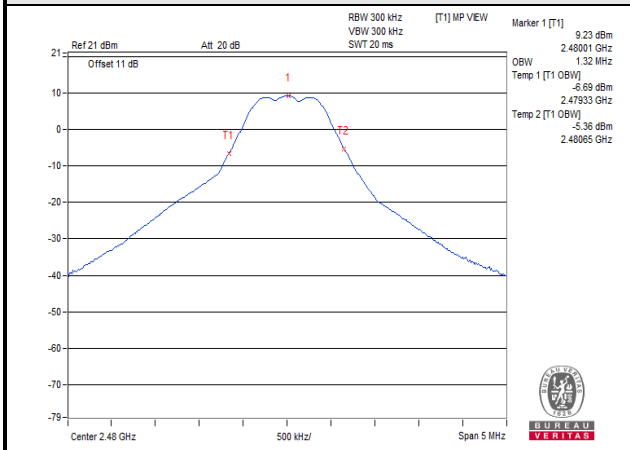
	
CH 39 (2480MHz)	

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	≦ 0.25 uW/100kHz
1000.0MHz to 2387MHz	≦ 2.5 uW/MHz
2387.0MHz to 2400.0MHz	≦ 25 uW/MHz
2483.5MHz to 2496.5MHz	≦ 25 uW/MHz
2496.5MHz to 12500.0MHz	≦ 2.5 uW/MHz

4.3.2 Test Setup

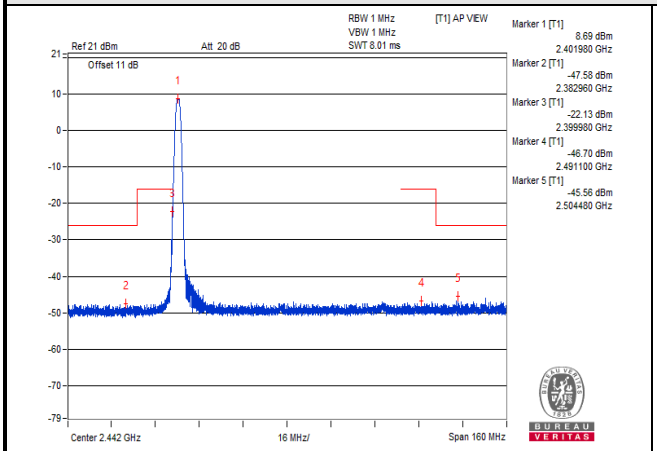
4.3.3 Test Results

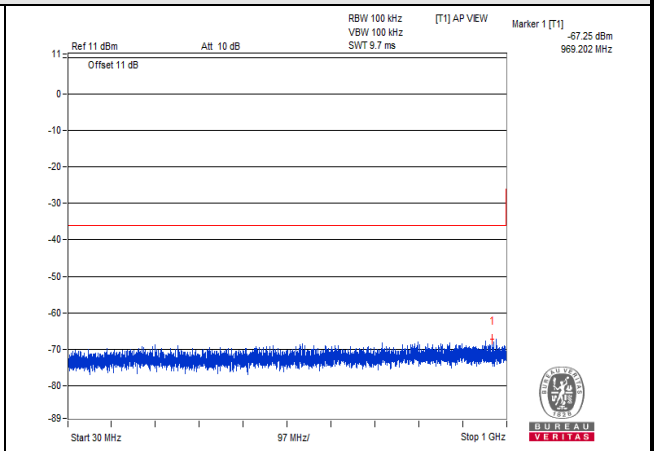
TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	969.202	0.000188	0.25	PASS
	1000MHz to 2387MHz	1087.554	0.018664	2.5	PASS
	2387MHz to 2400MHz	2400.000	6.839116	25	PASS
	2483.5MHz to 2496.5MHz	2493.188	0.023823	25	PASS
	2496.5MHz to 12500MHz	6963.062	0.050933	2.5	PASS
$V_{max.}$	30MHz to 1000MHz	916.095	0.000217	0.25	PASS
	1000MHz to 2387MHz	2368.622	0.019724	2.5	PASS
	2387MHz to 2400MHz	2400.000	6.998420	25	PASS
	2483.5MHz to 2496.5MHz	2494.951	0.023014	25	PASS
	2496.5MHz to 12500MHz	4803.557	0.050234	2.5	PASS
$V_{min.}$	30MHz to 1000MHz	959.502	0.000215	0.25	PASS
	1000MHz to 2387MHz	2301.006	0.020559	2.5	PASS
	2387MHz to 2400MHz	2399.998	6.998420	25	PASS
	2483.5MHz to 2496.5MHz	2494.909	0.026792	25	PASS
	2496.5MHz to 12500MHz	5763.893	0.064417	2.5	PASS
TEST CHANNEL		CH 19 (2440MHz)			
V_{normal}	30MHz to 1000MHz	887.116	0.000192	0.25	PASS
	1000MHz to 2387MHz	2315.742	0.016520	2.5	PASS
	2387MHz to 2400MHz	2395.255	0.022080	25	PASS
	2483.5MHz to 2496.5MHz	2496.201	0.024774	25	PASS
	2496.5MHz to 12500MHz	4878.583	0.056364	2.5	PASS
$V_{max.}$	30MHz to 1000MHz	971.748	0.000185	0.25	PASS
	1000MHz to 2387MHz	2174.095	0.017906	2.5	PASS
	2387MHz to 2400MHz	2396.548	0.021677	25	PASS
	2483.5MHz to 2496.5MHz	2494.738	0.025351	25	PASS
	2496.5MHz to 12500MHz	6988.071	0.052119	2.5	PASS
$V_{min.}$	30MHz to 1000MHz	162.283	0.000169	0.25	PASS
	1000MHz to 2387MHz	1869.302	0.017378	2.5	PASS
	2387MHz to 2400MHz	2393.877	0.023605	25	PASS
	2483.5MHz to 2496.5MHz	2496.098	0.024491	25	PASS
	2496.5MHz to 12500MHz	5842.670	0.060395	2.5	PASS

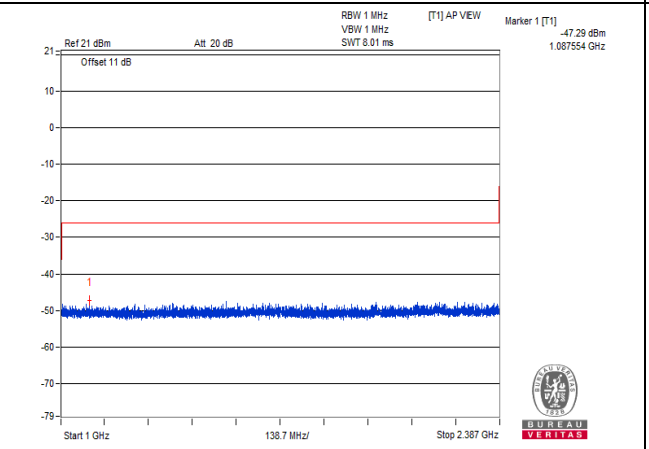
TEST CHANNEL		CH 39 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	787.812	0.000169	0.25	PASS
	1000MHz to 2387MHz	2371.049	0.020091	2.5	PASS
	2387MHz to 2400MHz	2389.647	0.023550	25	PASS
	2483.5MHz to 2496.5MHz	2483.524	0.221820	25	PASS
	2496.5MHz to 12500MHz	6475.392	0.049545	2.5	PASS
$V_{max.}$	30MHz to 1000MHz	902.636	0.000170	0.25	PASS
	1000MHz to 2387MHz	2317.650	0.016634	2.5	PASS
	2387MHz to 2400MHz	2398.488	0.022439	25	PASS
	2483.5MHz to 2496.5MHz	2484.094	0.184502	25	PASS
	2496.5MHz to 12500MHz	4959.861	0.044259	2.5	PASS
$V_{min.}$	30MHz to 1000MHz	968.353	0.000167	0.25	PASS
	1000MHz to 2387MHz	2097.637	0.017989	2.5	PASS
	2387MHz to 2400MHz	2398.178	0.021429	25	PASS
	2483.5MHz to 2496.5MHz	2483.547	0.227510	25	PASS
	2496.5MHz to 12500MHz	4959.861	0.050933	2.5	PASS

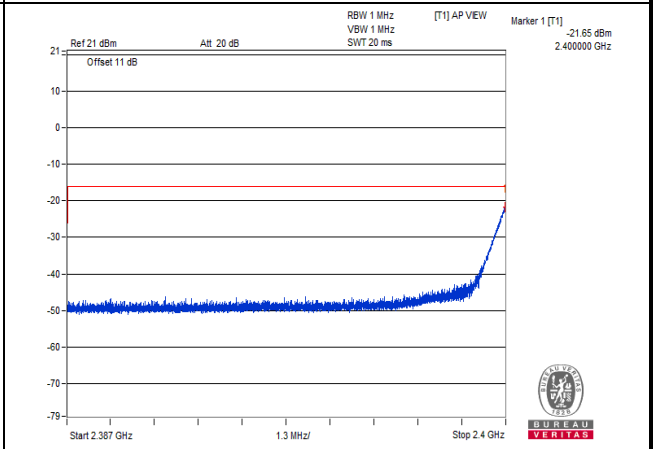
NOTE: 1. The spectrum plots are attached on the following pages.

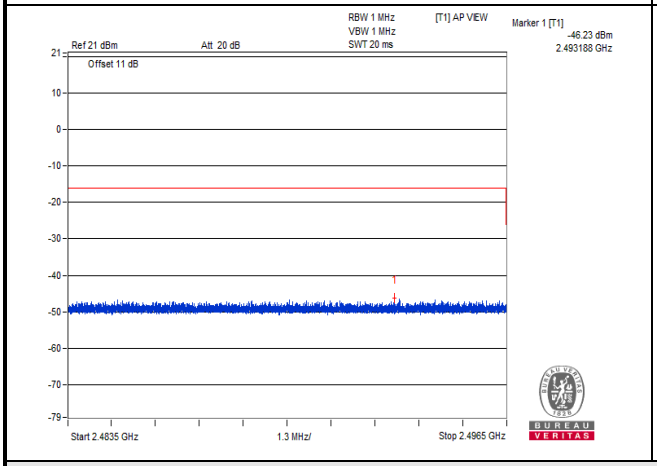
Vnormal

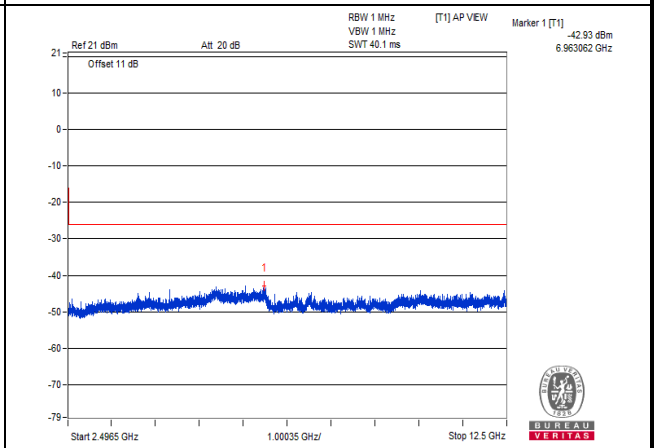






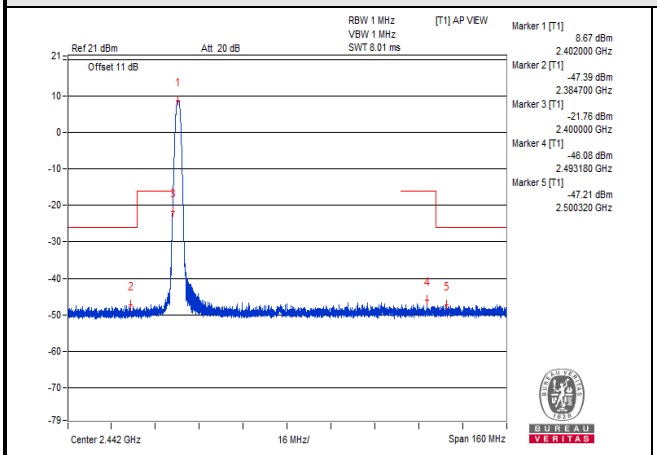


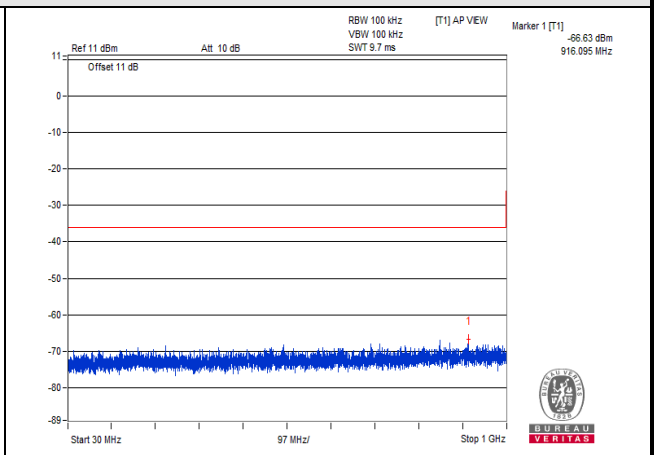


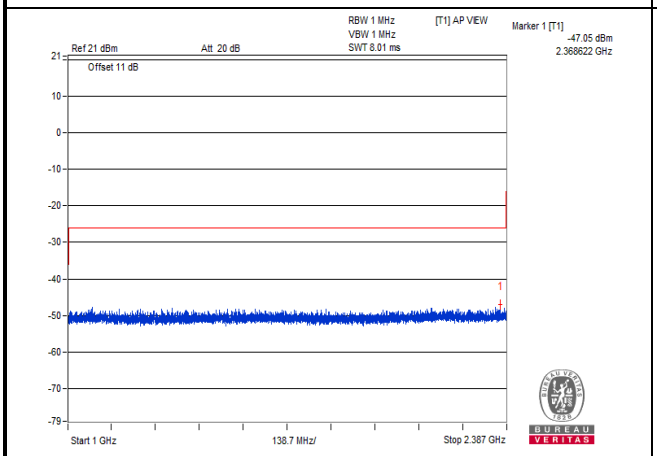


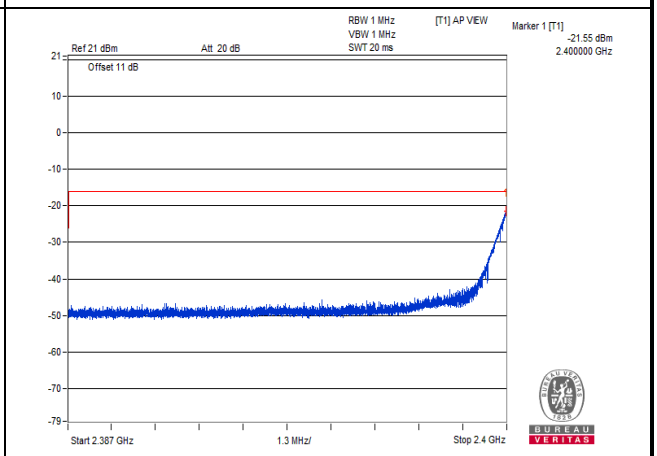
CH 0 (2402MHz)

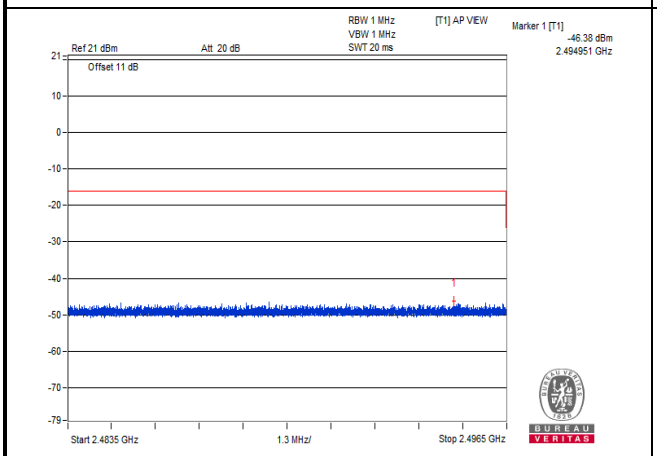
Vmax.

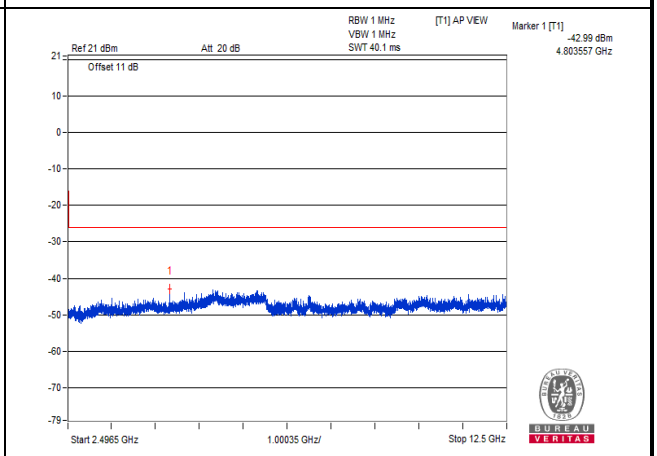






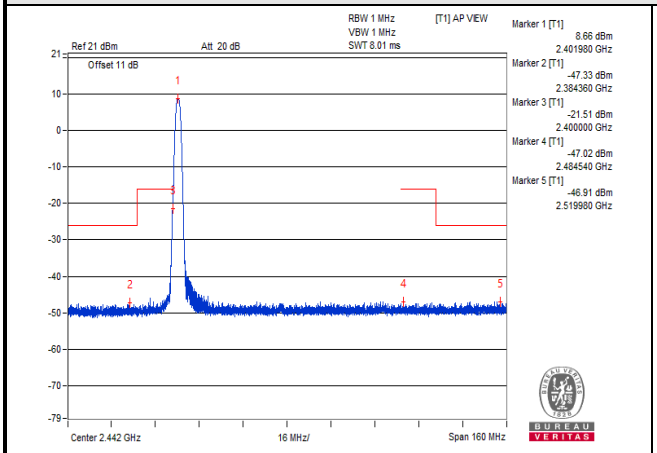


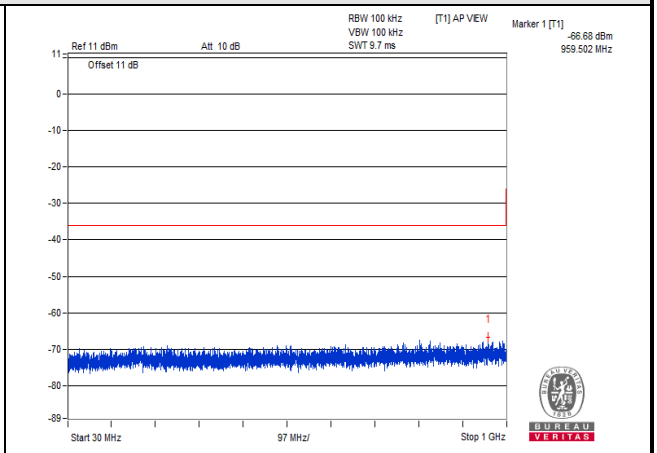


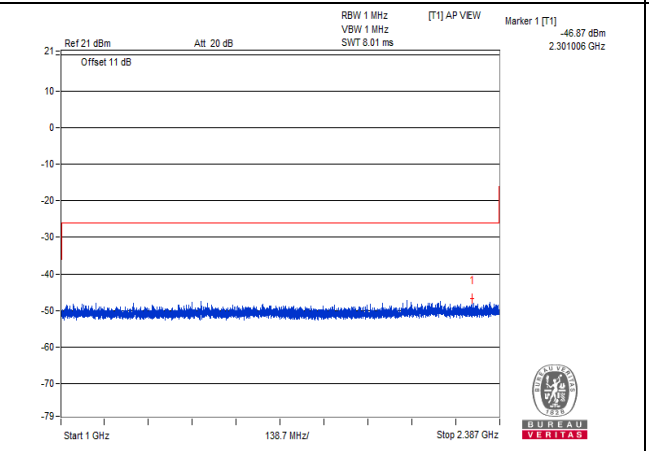


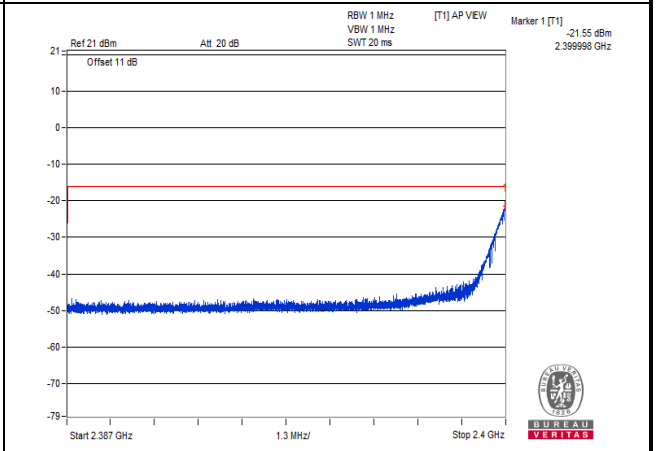
CH 0 (2402MHz)

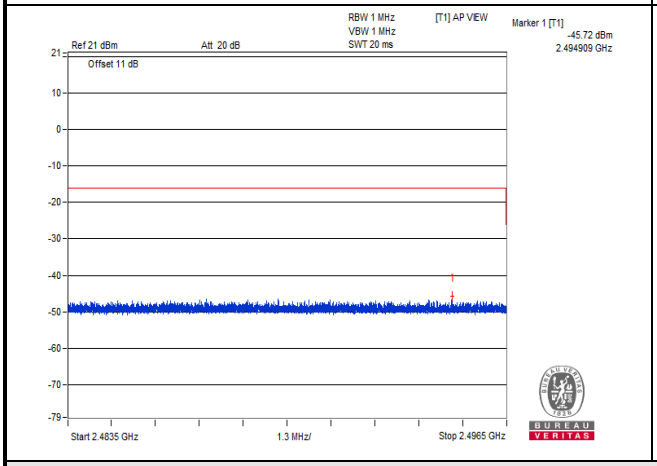
Vmin.

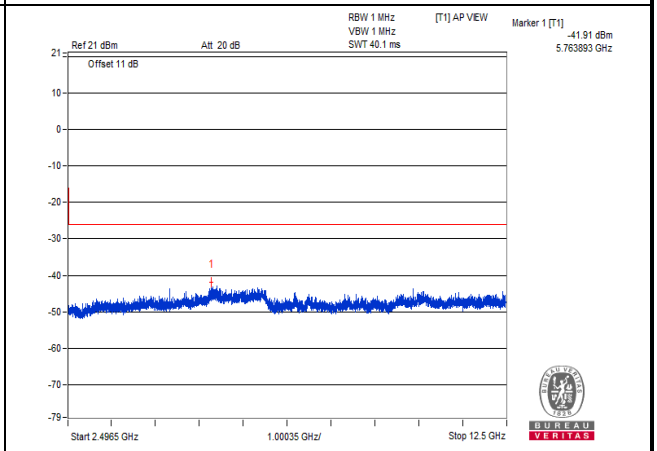






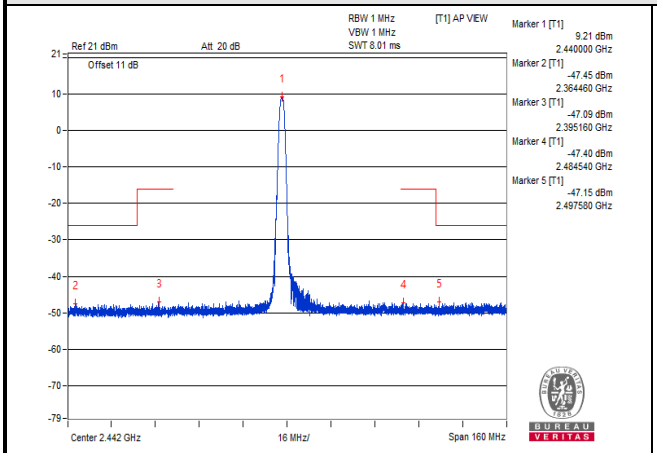


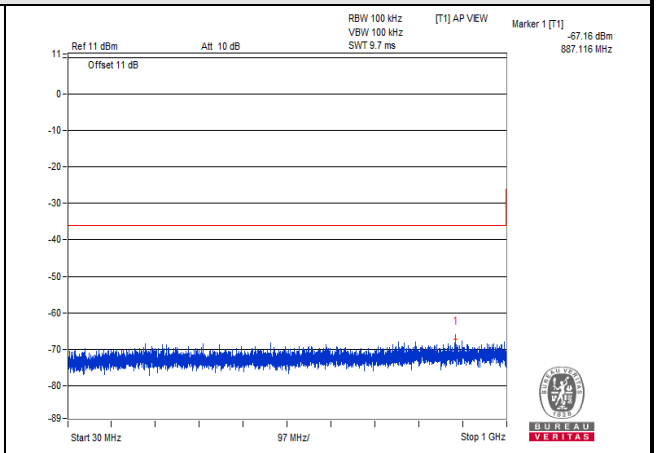


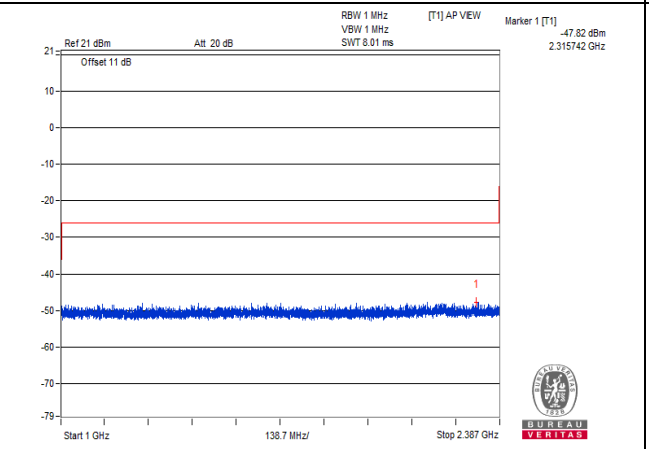


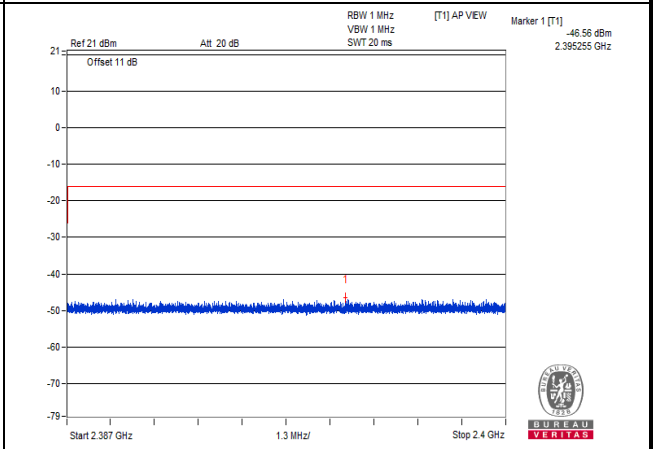
CH 0 (2402MHz)

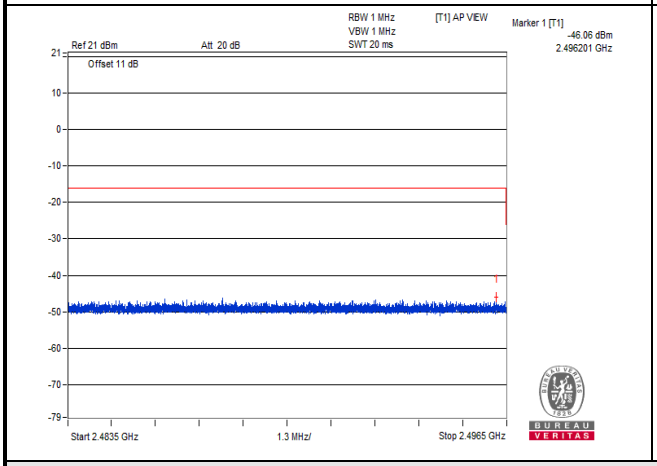
Vnormal

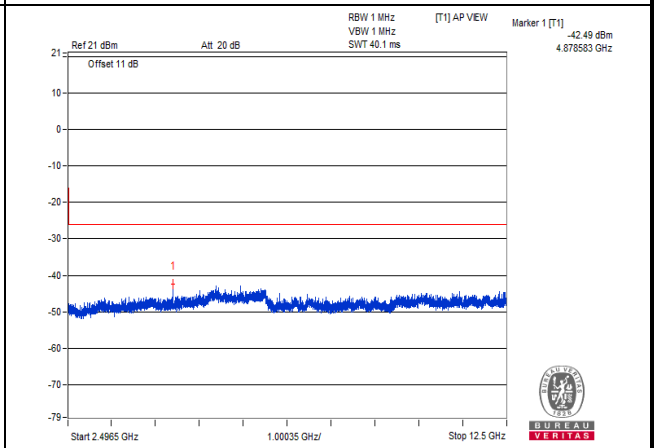






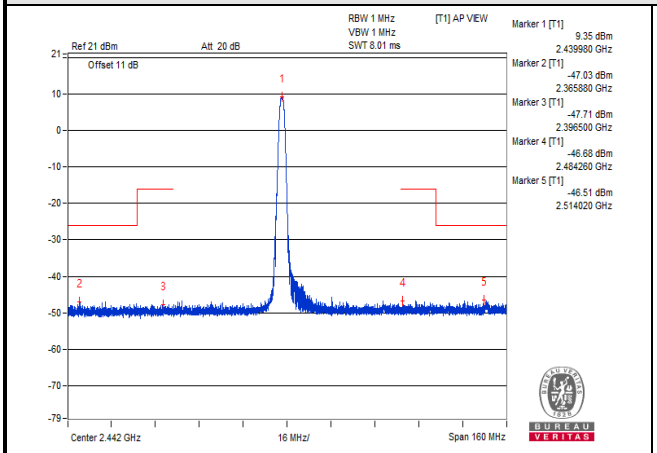


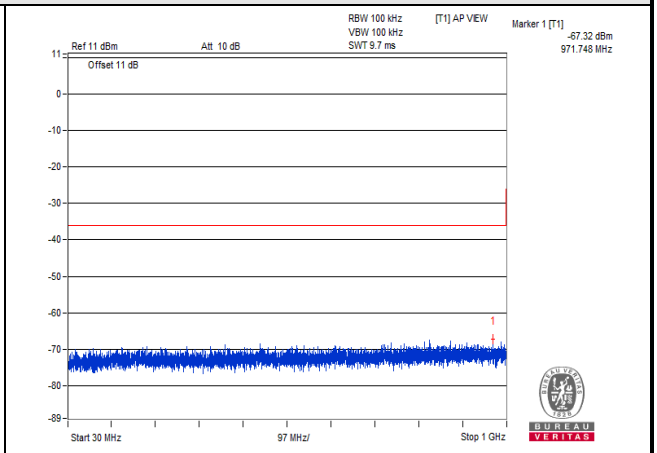


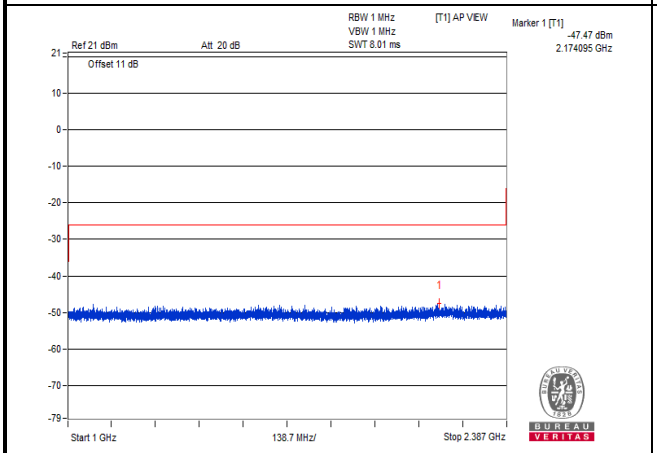


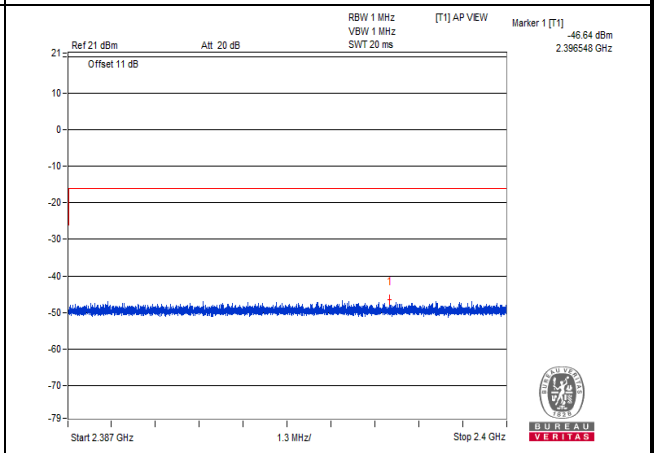
CH 19 (2440MHz)

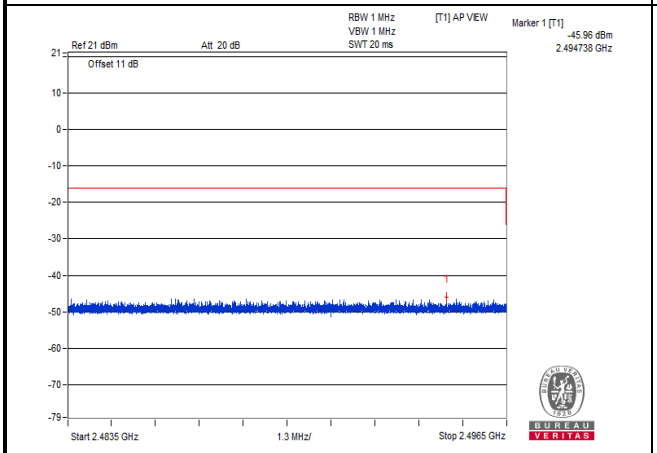
Vmax.

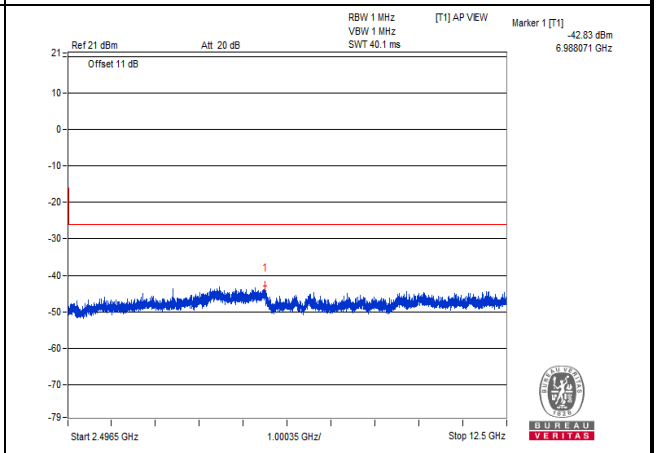






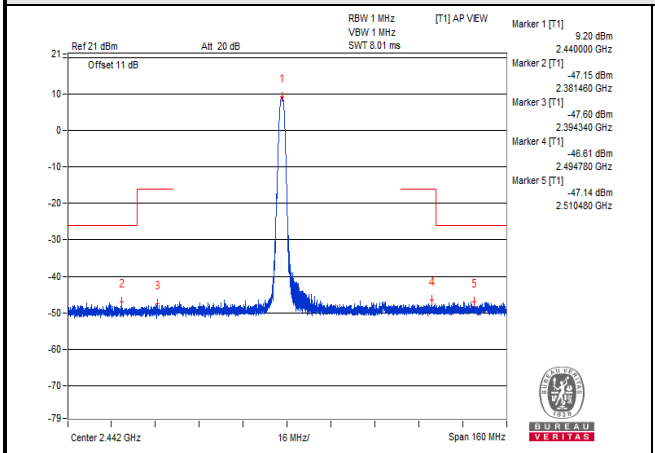


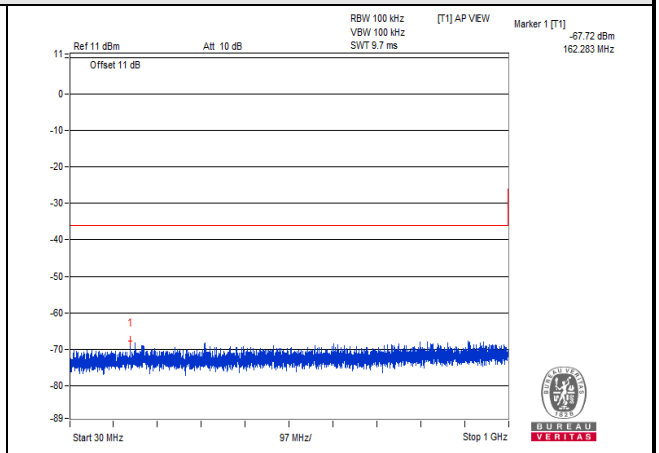


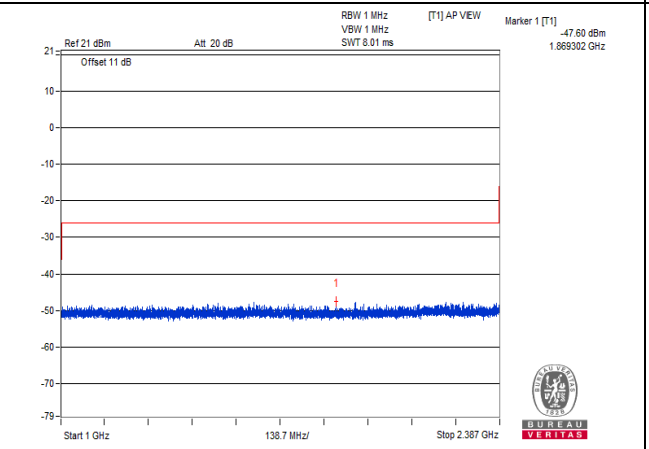


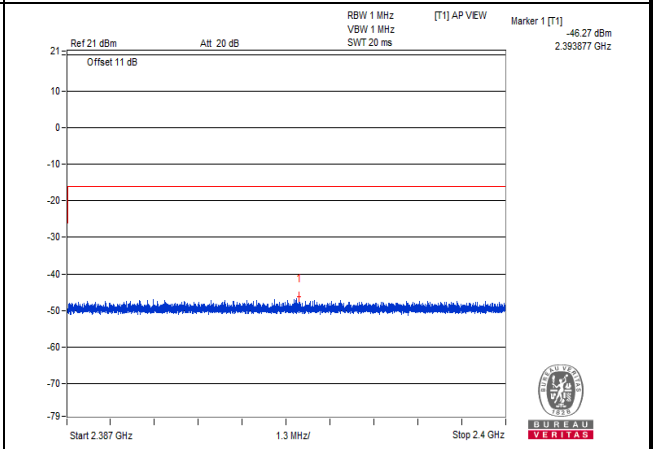
CH 19 (2440MHz)

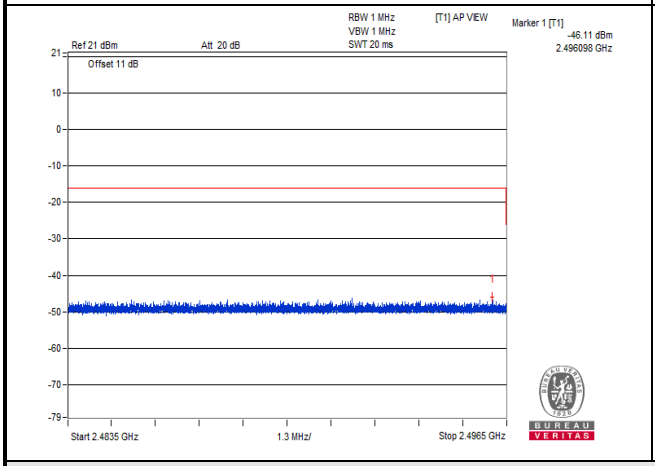
Vmin.

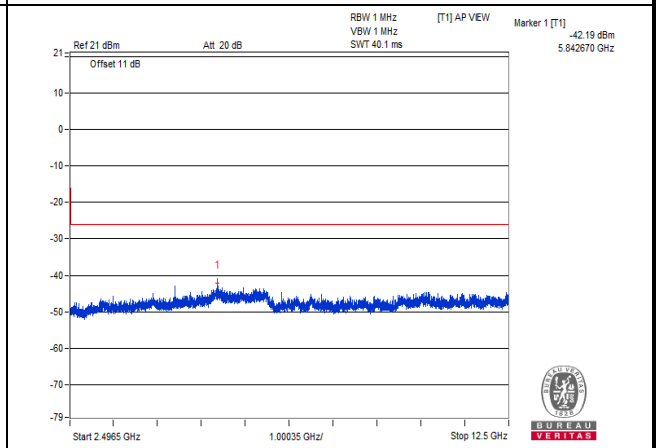






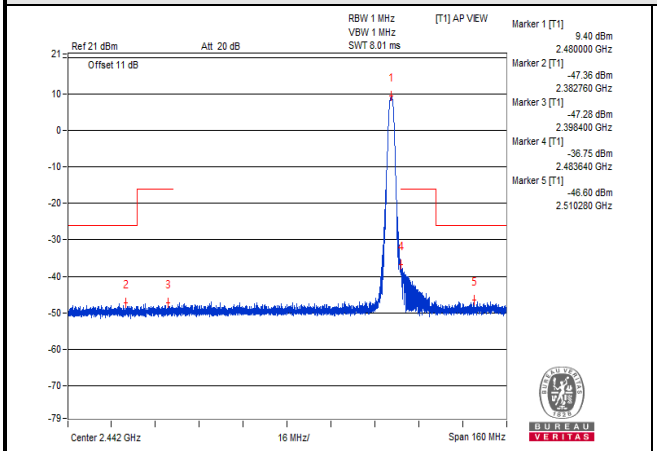


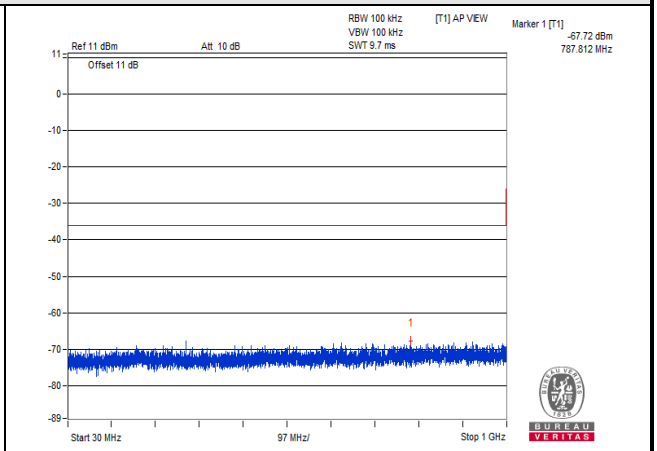


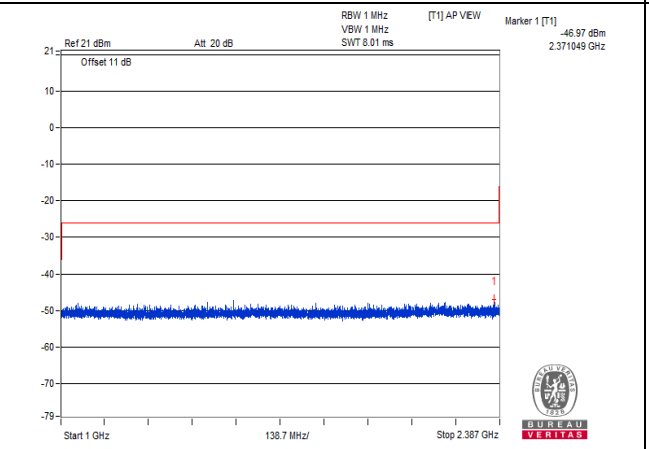


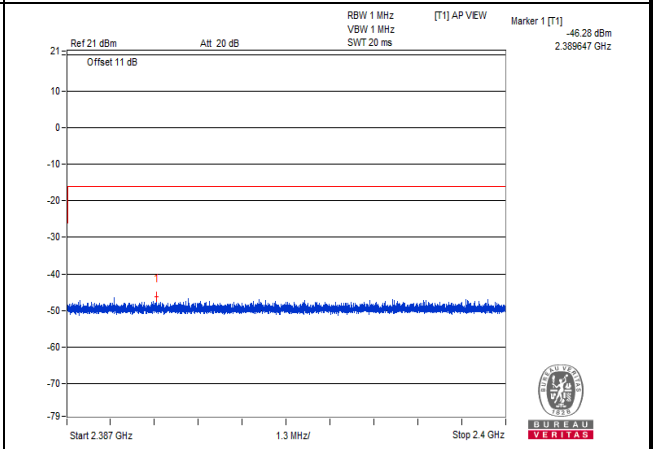
CH 19 (2440MHz)

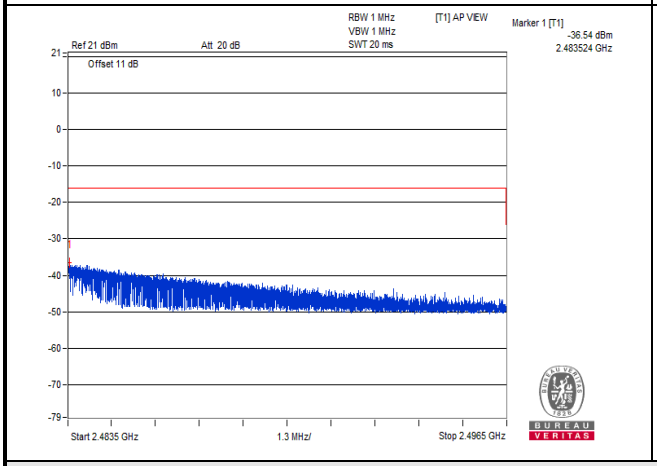
Vnormal

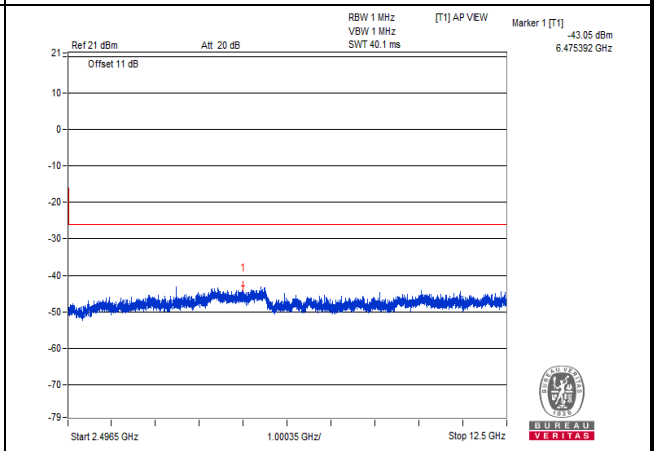






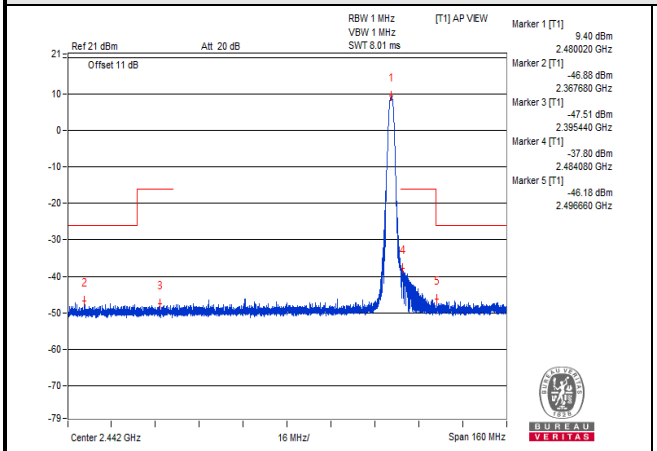


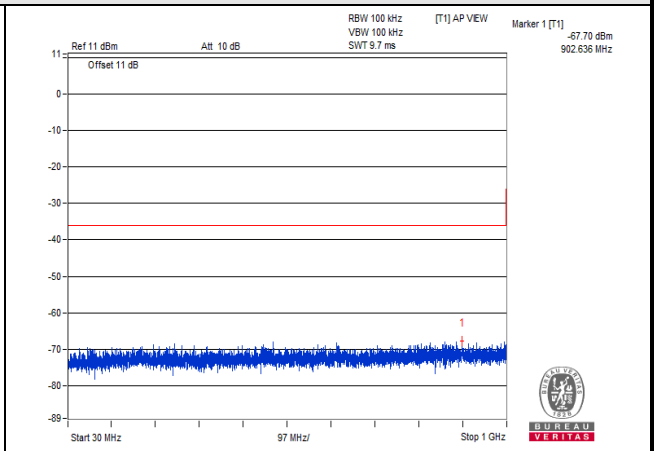


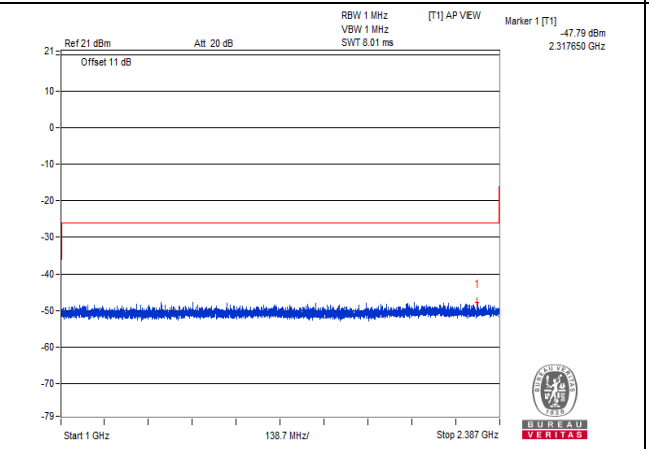


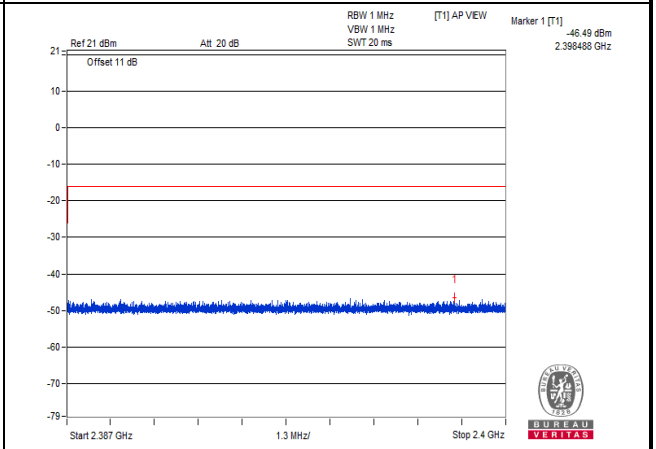
CH 39 (2480MHz)

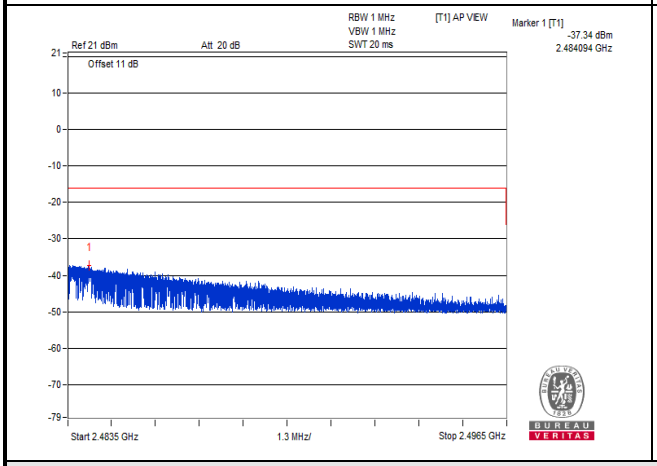
Vmax.

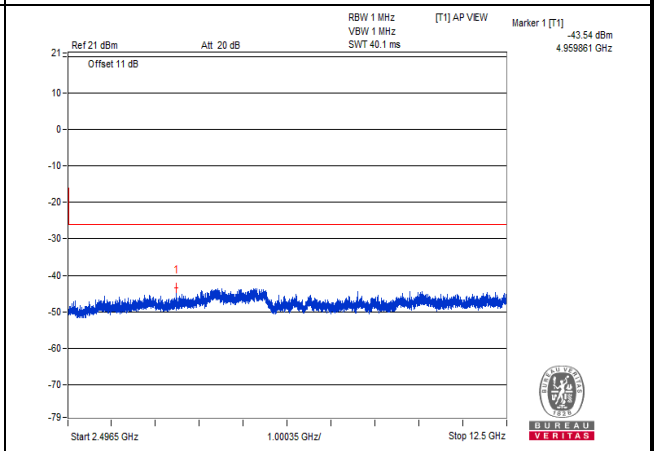






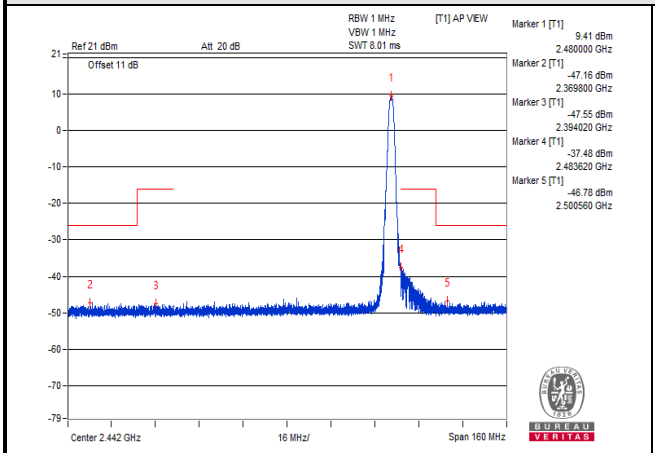


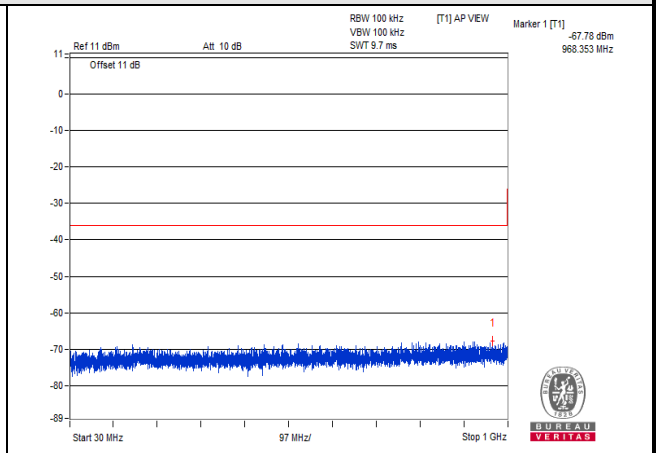


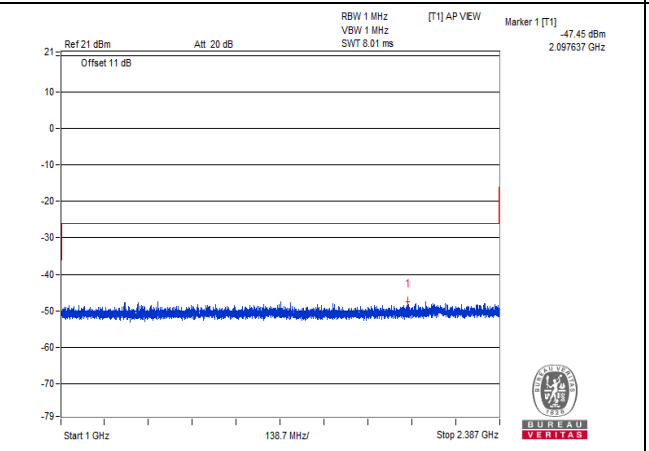


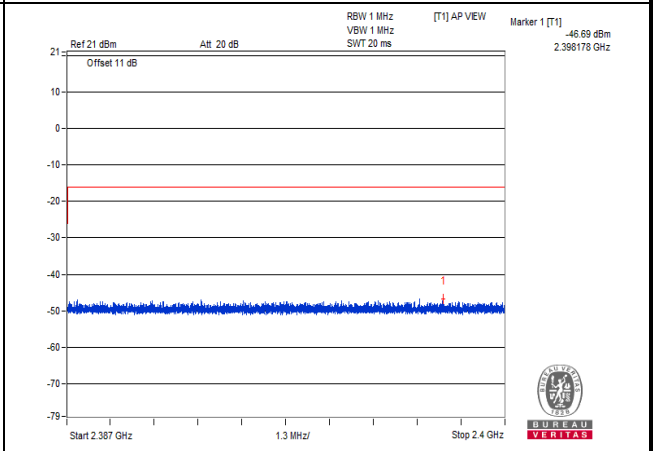
CH 39 (2480MHz)

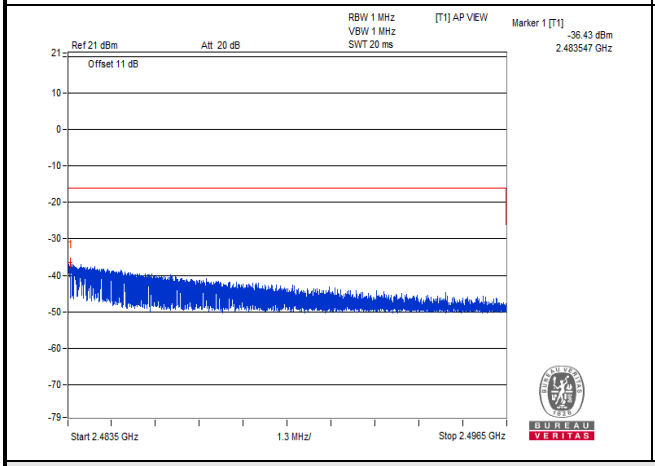
Vmin.

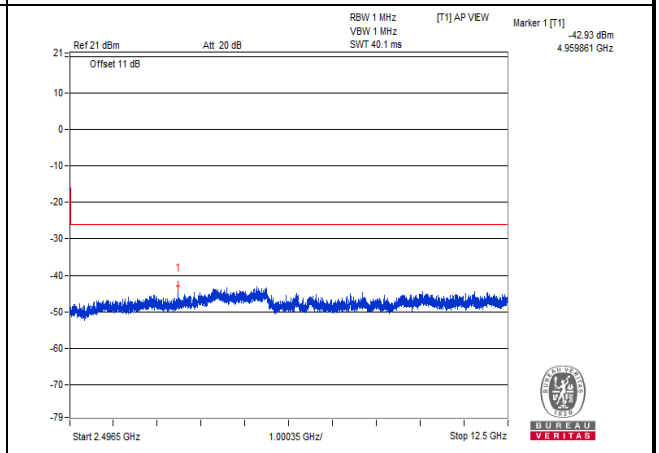












CH 39 (2480MHz)

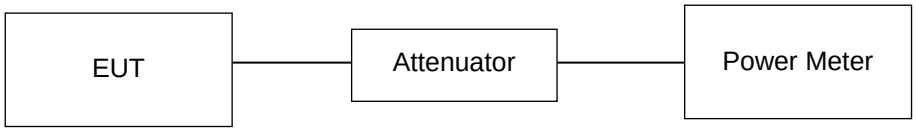
4.4 Antenna Power Measurement

4.4.1 Limits of Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DS	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5 mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.184 mW/MHz ~ 81.84 mW/MHz)
Other than the above	2400 – 2483.5 MHz	10 mW	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 that 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

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)	Radiated RF Output Power (mW)
100	0	2402	7.145	8.017
	19	2440	7.78	8.729
	39	2480	7.656	8.59
110	0	2402	7.047	7.907
	19	2440	7.603	8.531
	39	2480	7.311	8.203
90	0	2402	7.362	8.26
	19	2440	7.586	8.512
	39	2480	7.396	8.298
Max. Limit (mW):			10	-
Rated Power (mW):			8	-
Tolerance of Antenna Power (mW):			1.6 ~ 9.6	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain is 0.5 dBi.

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

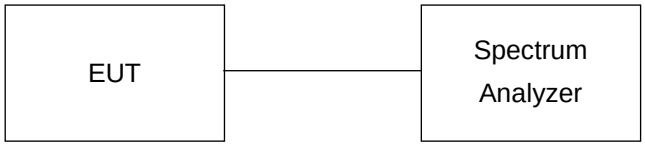
3. Formula: Radiated RF output power = Conducted RF output power + Antenna gain

4.5 Spurious Emissions for Receiver

4.5.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1GHz	≦4nW/100kHz (-54dBm)
Above 1GHz	≦20nW/MHz (-47dBm)

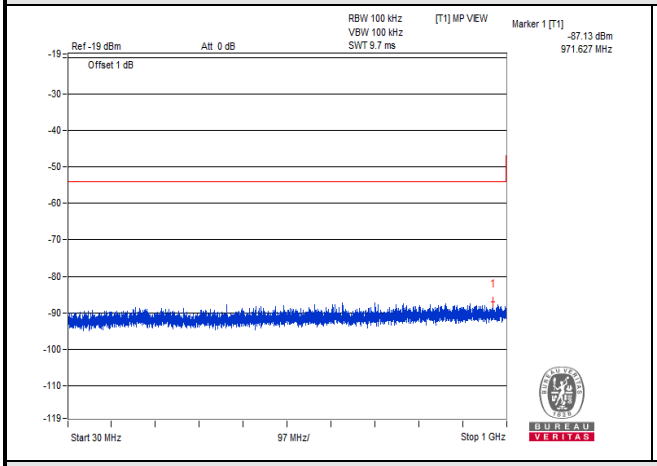
4.5.2 Test Setup

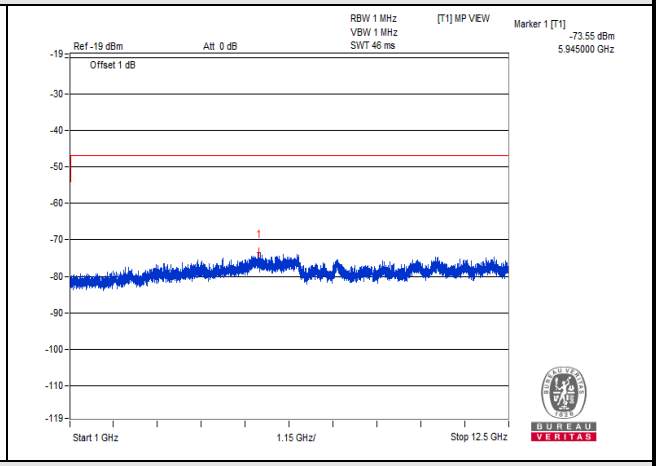


4.5.3 Test Result

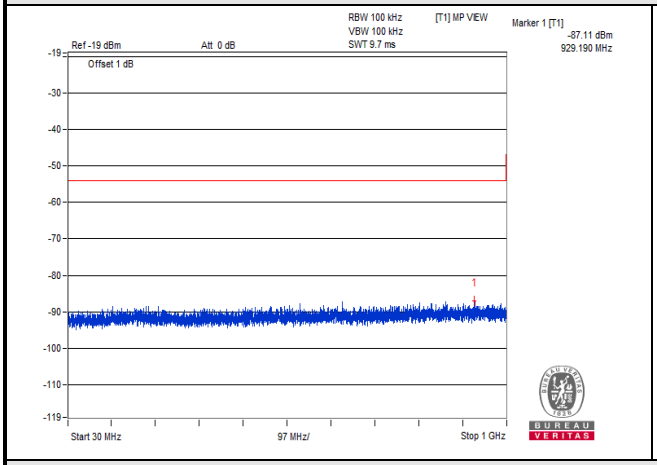
TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	971.627	0.001936	4.0	PASS
	1000MHz to 12500MHz	5945.000	0.044157	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	929.190	0.001945	4.0	PASS
	1000MHz to 12500MHz	5831.437	0.050350	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	923.733	0.002163	4.0	PASS
	1000MHz to 12500MHz	5880.312	0.052119	20.0	PASS
TEST CHANNEL		CH 19 (2440MHz)			
V_{normal}	30MHz to 1000MHz	882.872	0.002075	4.0	PASS
	1000MHz to 12500MHz	6613.437	0.043752	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	911.851	0.002466	4.0	PASS
	1000MHz to 12500MHz	5778.250	0.040087	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	959.866	0.002168	4.0	PASS
	1000MHz to 12500MHz	6724.125	0.039902	20.0	PASS
TEST CHANNEL		CH 39 (2480MHz)			
V_{normal}	30MHz to 1000MHz	931.615	0.001892	4.0	PASS
	1000MHz to 12500MHz	5873.125	0.041591	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	880.205	0.001982	4.0	PASS
	1000MHz to 12500MHz	5654.625	0.052481	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	843.223	0.001914	4.0	PASS
	1000MHz to 12500MHz	6189.375	0.043053	20.0	PASS

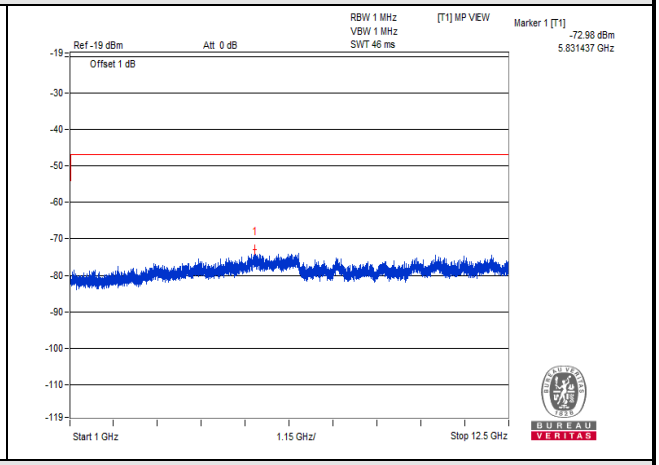
Vnormal



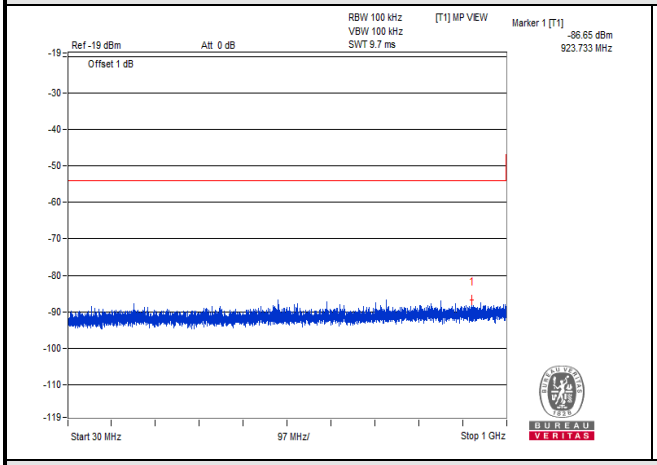


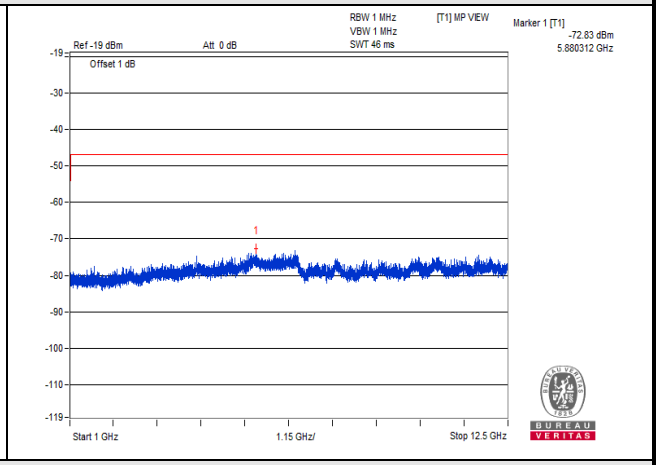
Vmax.





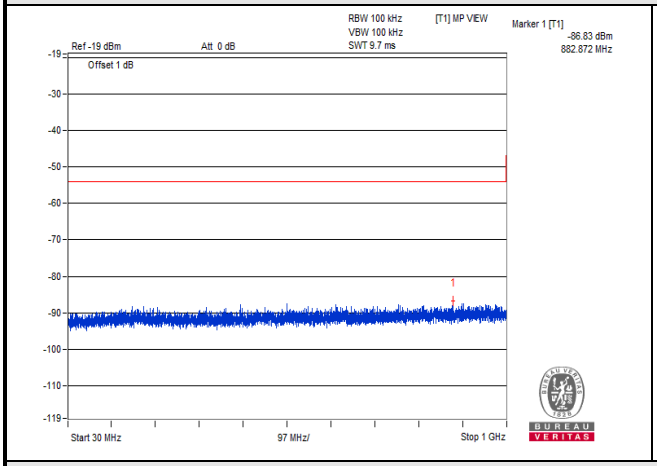
Vmin.

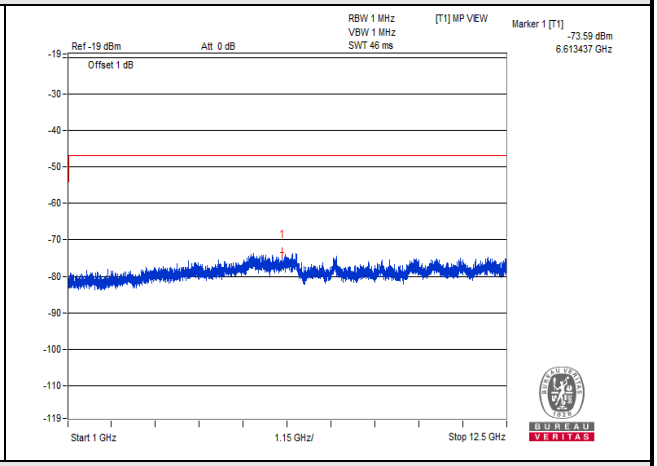




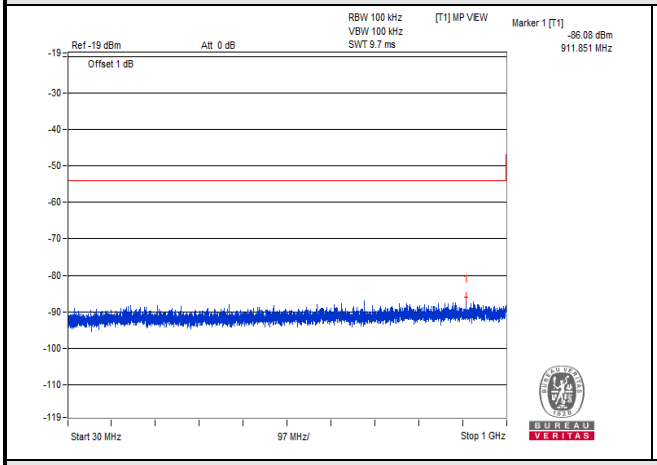
CH 0 (2402MHz)

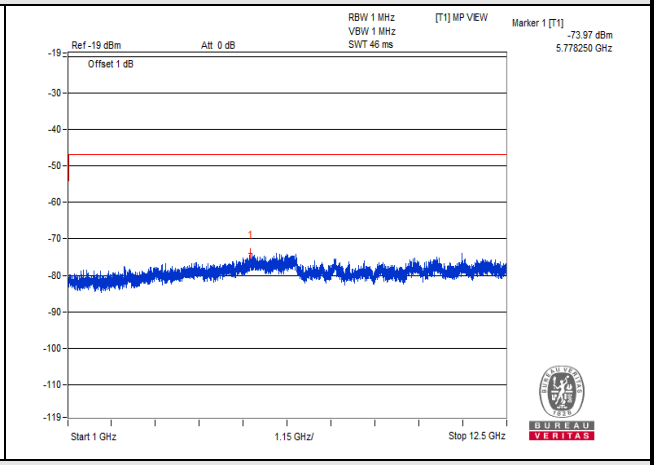
Vnormal



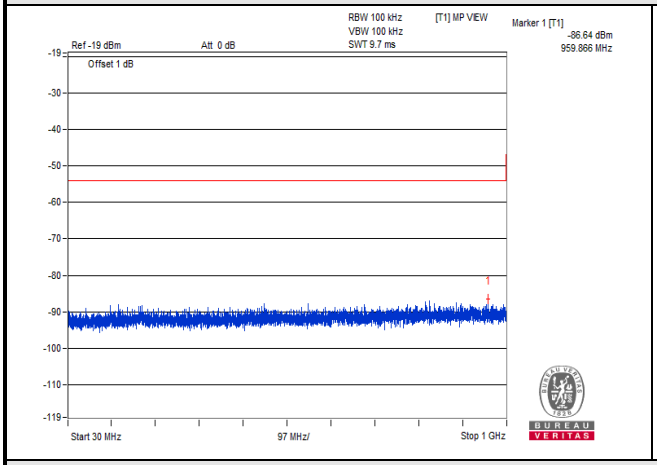


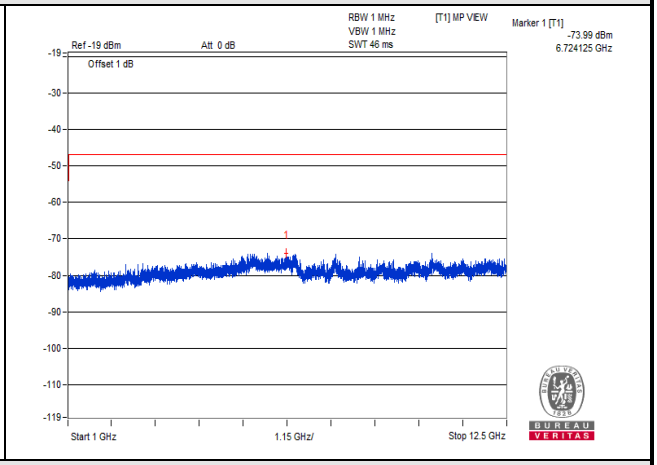
Vmax.





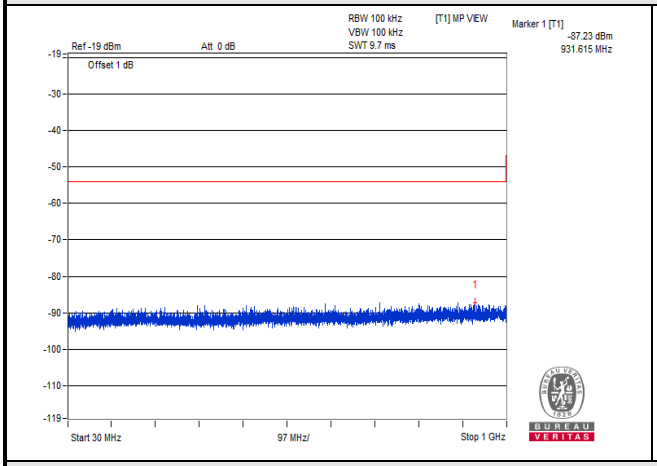
Vmin.

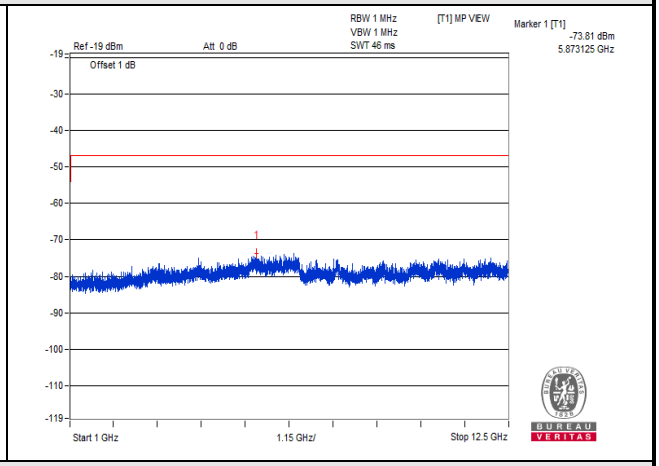




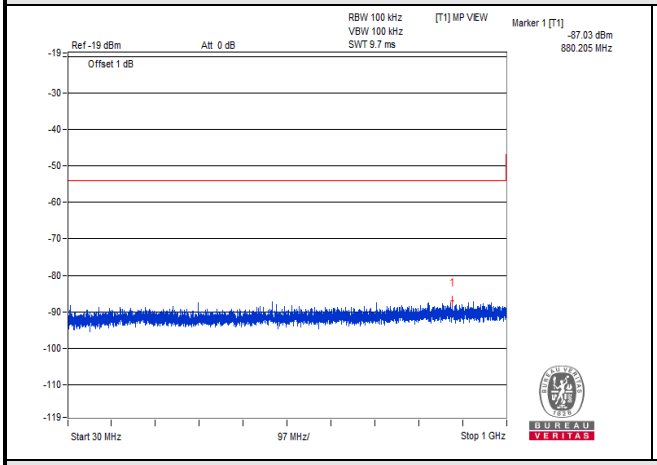
CH 19 (2440MHz)

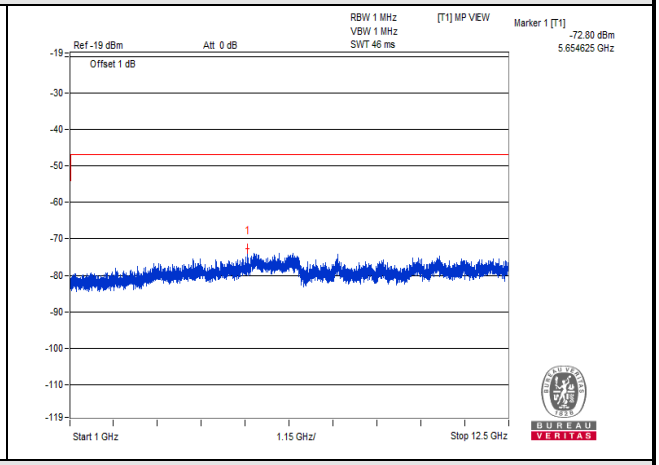
Vnormal



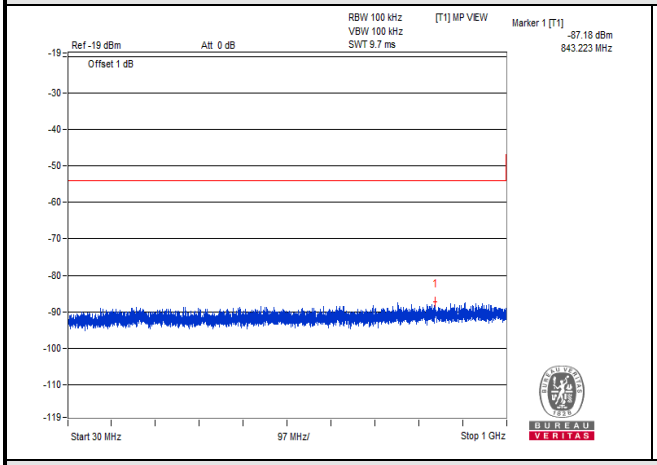


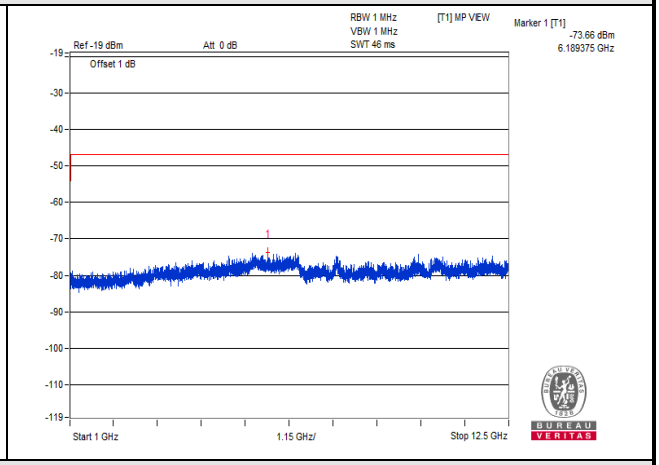
Vmax.





Vmin.





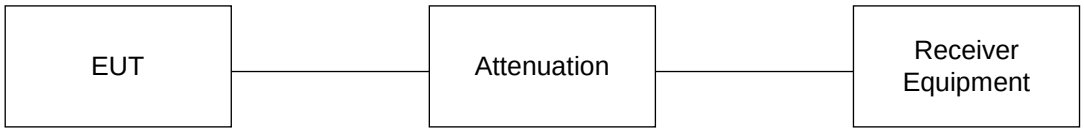
CH 39 (2480MHz)

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.

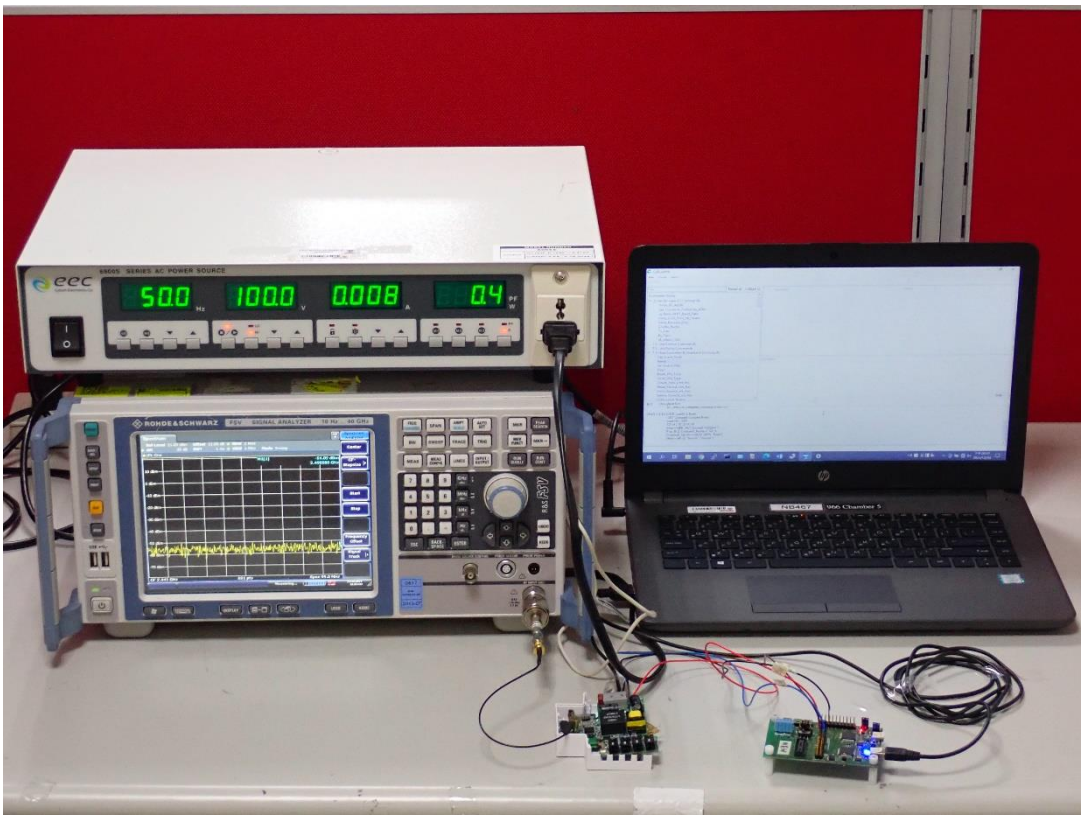
4.6.2 Test Setup



4.6.3 Test Results

Link Mode	Test Result
BT-LE	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:

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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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