

Radio Test Report (BT LE)

Report No.: RJBEMX-WTW-P22020100

Test Model: 2030

Received Date: 2022/2/9

Test Date: 2022/4/7

Issued Date: 2022/6/14

Applicant: MICROSOFT CORPORATION

Address: ONE MICROSOFT WAY REDMOND, WA 98052-6399, U.S.A

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

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Release Control Record

Issue No.	Description	Date Issued
RJBEMX-WTW-P22020100	Original release.	2022/6/14

1 Certificate of Conformity

Product: Adaptive Mouse

Brand: Microsoft

Test Model: 2030

Sample Status: Engineering sample

Applicant: MICROSOFT CORPORATION

Test Date: 2022/4/7

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 : Annie Chang, **Date:** 2022/6/14
Annie Chang / Senior Specialist

Approved by : Jeremy Lin, **Date:** 2022/6/14
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
--	--	3.5	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5MHz				
--	3.7 (1)	3.2	High Frequency	C
--	3.7 (1)	3.4	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	Cal. Method
MIMO Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2021/6/16	2022/6/15	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2021/9/9	2022/9/8	ETC	c)
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2021/7/23	2022/7/22	ETC	c)
Pulse Power Sensor Anritsu	MA2411B	1207333	2022/01/09	2023/1/8	ETC	c)
Peak Power meter Anritsu	ML2495A	1232003	2022/01/09	2023/1/8	ETC	c)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2021/5/19	2022/5/18	ETC	c)
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1	ETC	c)
AC POWER SOURCE Schaffner	Proflin2105-208 NSG1007	55616	2021/6/2	2022/6/1	ETC	c)
Programmable DC Power Supply (IDRC)	DSP80-180WE	701217	2022/3/3	2023/3/2	ETC	c)

NOTE: Calibration Method

- a) : Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- b) : Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- d) : Calibration conducted by using other equipment that listed above from a) to c)

2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in TR 100 028-1.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameter	Uncertainty
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	Adaptive Mouse
Brand	Microsoft
Test Model	2030
Status of EUT	Engineering sample
Nominal Voltage	3.7Vdc from Battery or 5Vdc from Type C interface (Charging)
Modulation Type	GFSK
Transfer Rate	Up to 1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Rated RF Output Power	Refer to note
Conducted RFOutput Power	Refer to note
Radiated RF Output Power	Refer to note
Antenna Type	Chip antenna with 2.04dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	Shielded USB type C cable (1.5m)

Note:

1. The power table as below:

Modulation Type	Rated power (mW)	Total Conducted RF output power (mW)	Radiated RF output power (mW)
GFSK	1	0.743	1.188

2. 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. 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

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 provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power setting
0	0
19	0
39	0

3.3 Test Conditions

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

Test modes are presented in the report as below:

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

3.4 Assembly

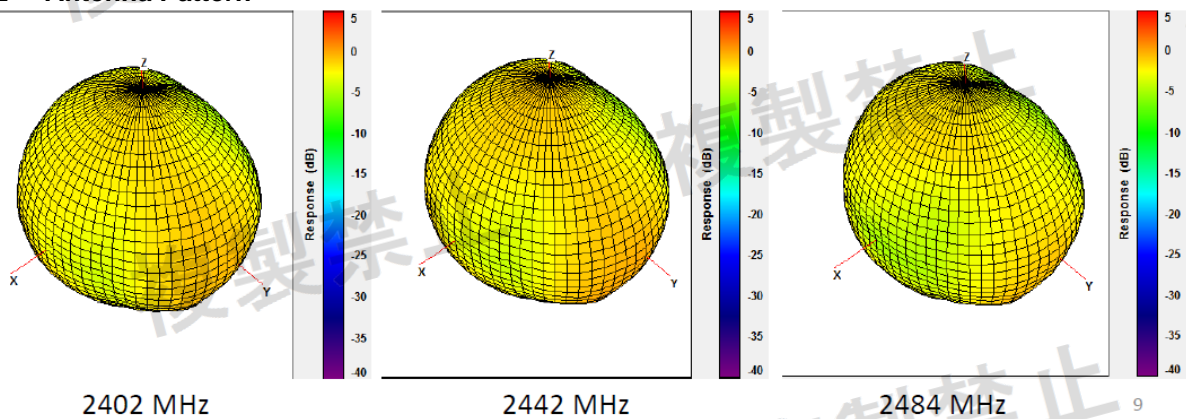
The EUT used a kind of particular screw, which could not operated by a tool bought in the market. Only means of brute force will be able to opened.

3.5 Antenna Specifications

3.5.1 Antenna Gain

Antenna Type	Max. Gain (dBi)
Chip	2.04

3.5.2 Antenna Pattern



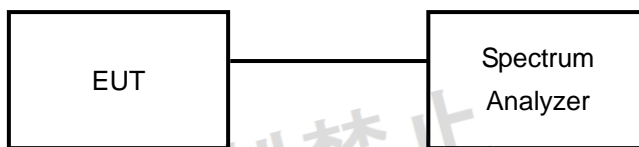
4 Test Results

4.1 Frequency Tolerance Measurement

4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be $\pm 50\text{ppm}$

4.1.2 Test Setup



4.1.3 Test Results

Channel	Frequency (MHz)	V_{normal}		$V_{\text{max.}}$		$V_{\text{min.}}$	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2402.001520	0.632	2402.001479	0.615	2402.001519	0.632
19	2440	2440.001479	0.606	2440.001439	0.589	2440.001439	0.589
39	2480	2480.001440	0.580	2480.001439	0.580	2480.001440	0.580

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	<26MHz	-

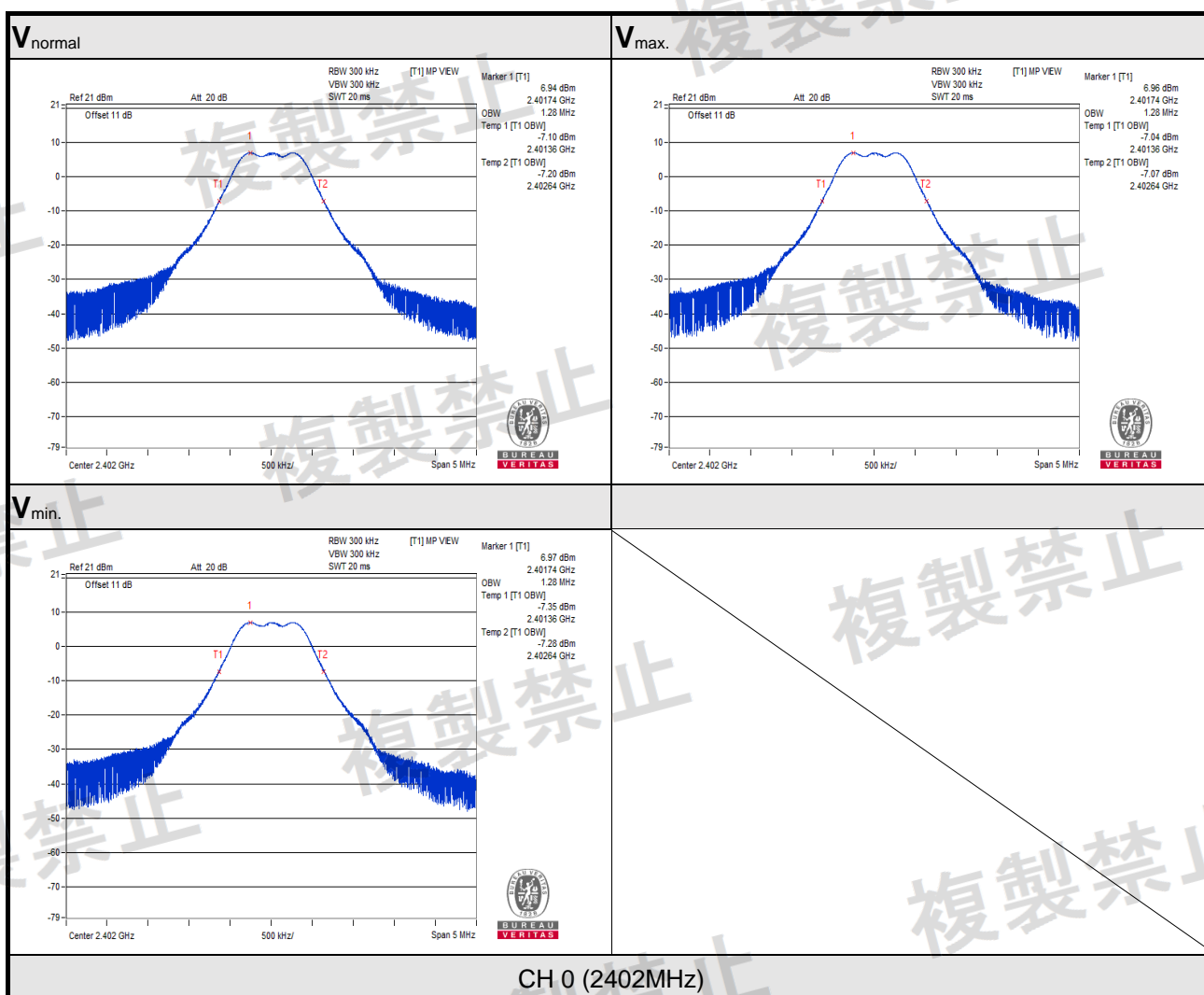
4.2.2 Test Setup



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

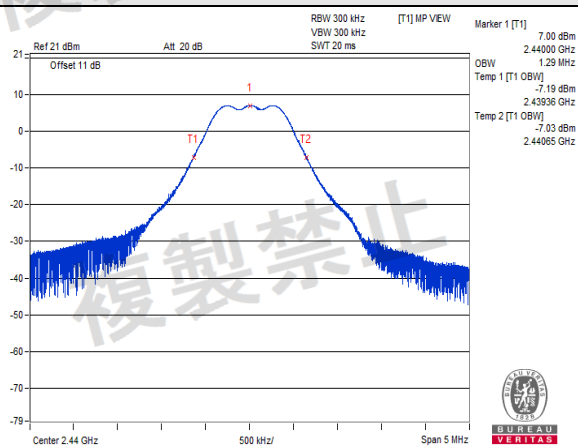
NOTE: For the test plots please refer to the below pages.



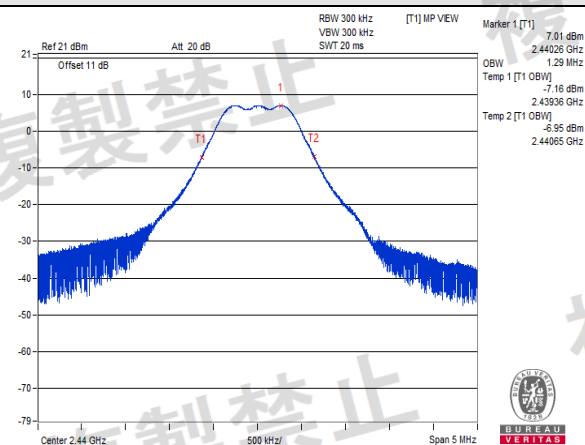


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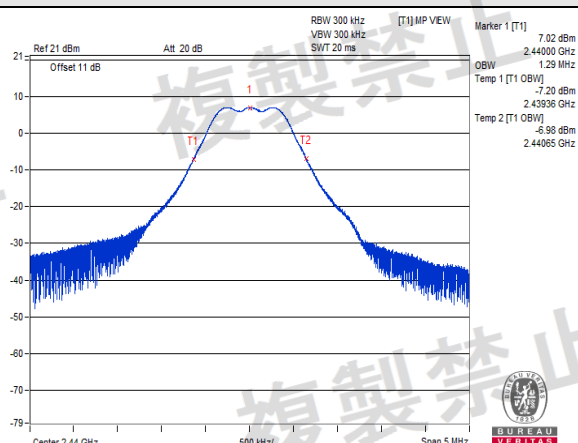
V normal



V max.



V min.

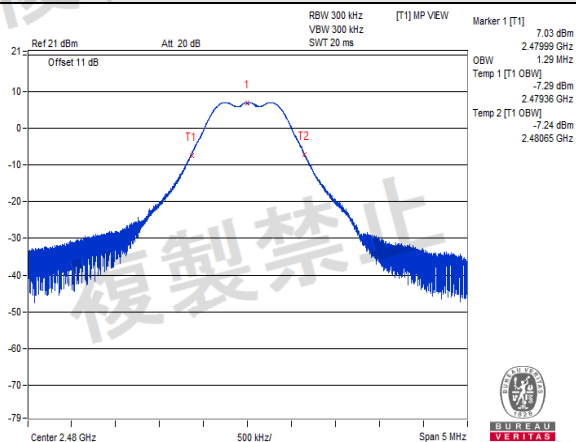


CH 19 (2440MHz)

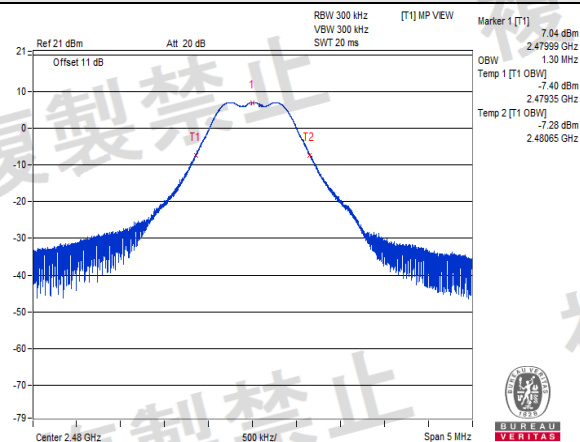


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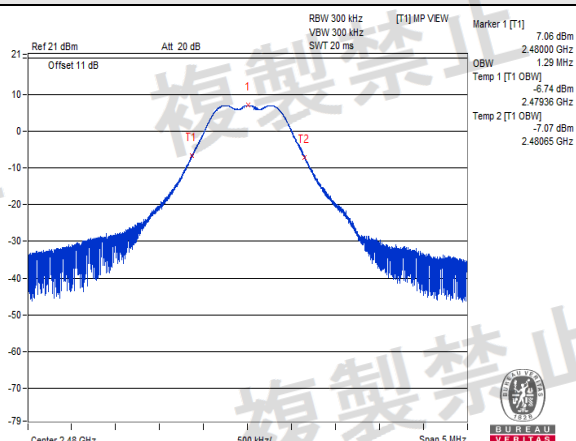
V normal



V max.



V min.



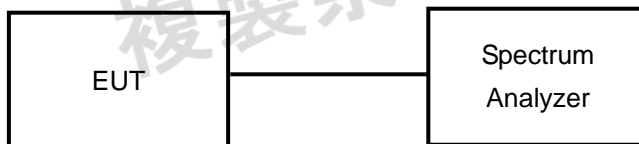
CH 39 (2480MHz)

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	$\leq 0.25 \mu\text{W}/100\text{kHz}$
1000.0MHz to 2387MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$

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	720.518	0.000973	0.25	PASS
	1000MHz to 2387MHz	2086.714	0.063826	2.5	PASS
	2387MHz to 2400MHz	2399.941	7.816278	25	PASS
	2483.5MHz to 2496.5MHz	2490.526	0.067608	25	PASS
	2496.5MHz to 12500MHz	6956.810	0.158855	2.5	PASS
V_{max.}	30MHz to 1000MHz	839.950	0.000745	0.25	PASS
	1000MHz to 2387MHz	1704.942	0.041687	2.5	PASS
	2387MHz to 2400MHz	2399.983	8.147043	25	PASS
	2483.5MHz to 2496.5MHz	2488.836	0.072778	25	PASS
	2496.5MHz to 12500MHz	11269.568	0.146893	2.5	PASS
V_{min.}	30MHz to 1000MHz	721.731	0.001112	0.25	PASS
	1000MHz to 2387MHz	1638.540	0.048529	2.5	PASS
	2387MHz to 2400MHz	2399.991	8.590135	25	PASS
	2483.5MHz to 2496.5MHz	2488.087	0.053580	25	PASS
	2496.5MHz to 12500MHz	11292.076	0.181970	2.5	PASS
TEST CHANNEL		CH 19 (2440MHz)			
V_{normal}	30MHz to 1000MHz	713.850	0.001019	0.25	PASS
	1000MHz to 2387MHz	2310.541	0.050466	2.5	PASS
	2387MHz to 2400MHz	2396.854	0.055335	25	PASS
	2483.5MHz to 2496.5MHz	2492.952	0.061802	25	PASS
	2496.5MHz to 12500MHz	9277.621	0.164437	2.5	PASS
V_{max.}	30MHz to 1000MHz	821.277	0.000863	0.25	PASS
	1000MHz to 2387MHz	2326.838	0.044771	2.5	PASS
	2387MHz to 2400MHz	2398.167	0.055463	25	PASS
	2483.5MHz to 2496.5MHz	2486.891	0.063096	25	PASS
	2496.5MHz to 12500MHz	11300.830	0.150661	2.5	PASS
V_{min.}	30MHz to 1000MHz	909.790	0.000738	0.25	PASS
	1000MHz to 2387MHz	2293.897	0.045290	2.5	PASS
	2387MHz to 2400MHz	2395.069	0.065917	25	PASS
	2483.5MHz to 2496.5MHz	2496.147	0.061518	25	PASS
	2496.5MHz to 12500MHz	11319.587	0.147571	2.5	PASS

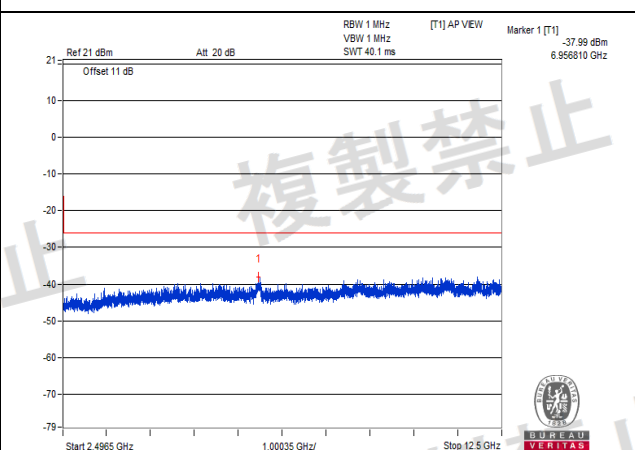
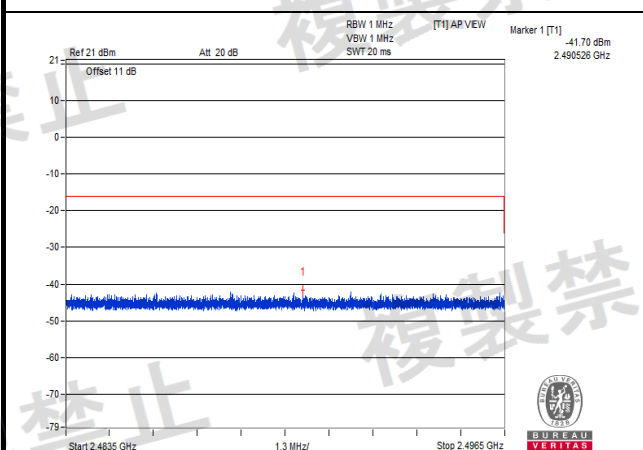
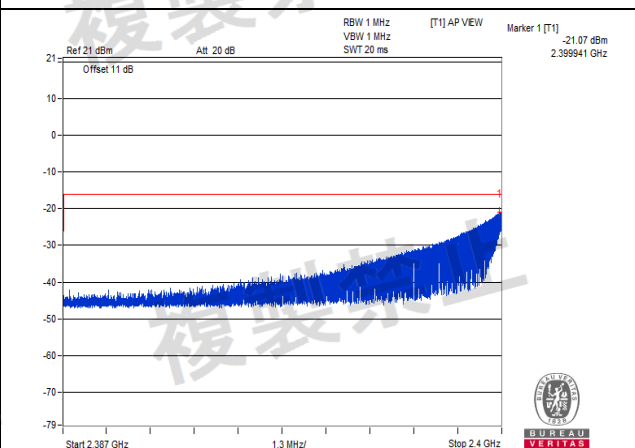
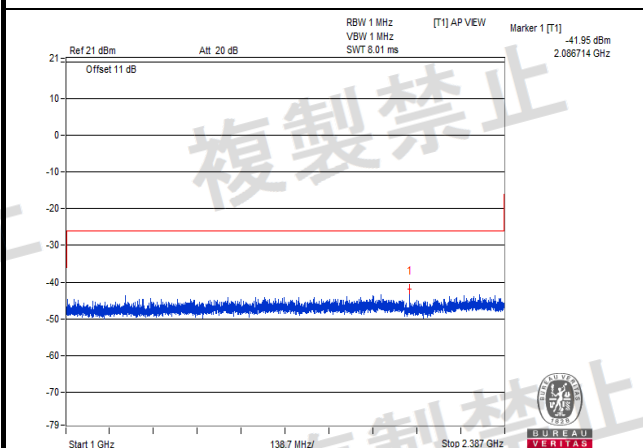
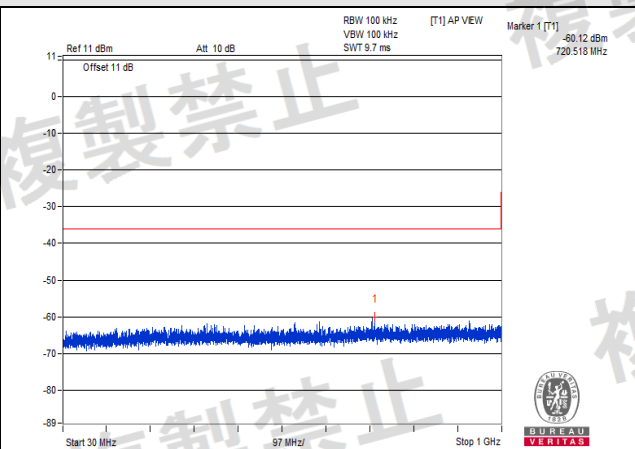
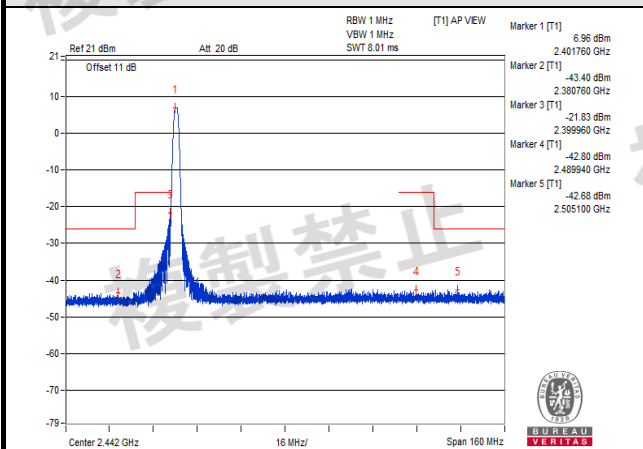
TEST CHANNEL		CH 39 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	777.263	0.000733	0.25	PASS
	1000MHz to 2387MHz	2266.157	0.049091	2.5	PASS
	2387MHz to 2400MHz	2387.507	0.050234	25	PASS
	2483.5MHz to 2496.5MHz	2483.526	1.056818	25	PASS
	2496.5MHz to 12500MHz	11378.357	0.156675	2.5	PASS
V_{max.}	30MHz to 1000MHz	811.577	0.000713	0.25	PASS
	1000MHz to 2387MHz	2378.851	0.045186	2.5	PASS
	2387MHz to 2400MHz	2397.440	0.048084	25	PASS
	2483.5MHz to 2496.5MHz	2483.524	1.083927	25	PASS
	2496.5MHz to 12500MHz	10894.438	0.154882	2.5	PASS
V_{min.}	30MHz to 1000MHz	820.186	0.000776	0.25	PASS
	1000MHz to 2387MHz	2302.913	0.047863	2.5	PASS
	2387MHz to 2400MHz	2397.140	0.046132	25	PASS
	2483.5MHz to 2496.5MHz	2483.513	0.984011	25	PASS
	2496.5MHz to 12500MHz	12397.464	0.153815	2.5	PASS

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



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V normal

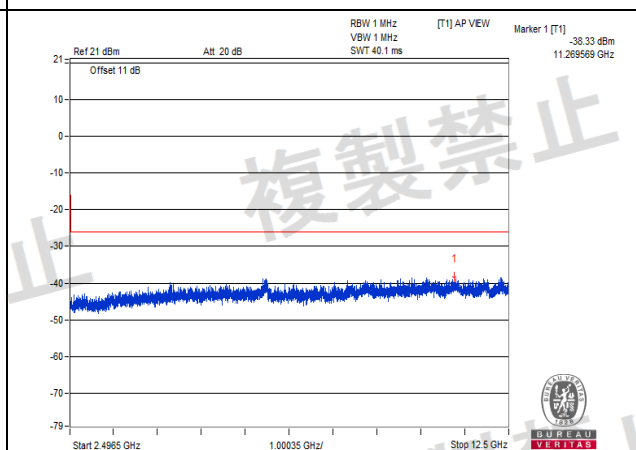
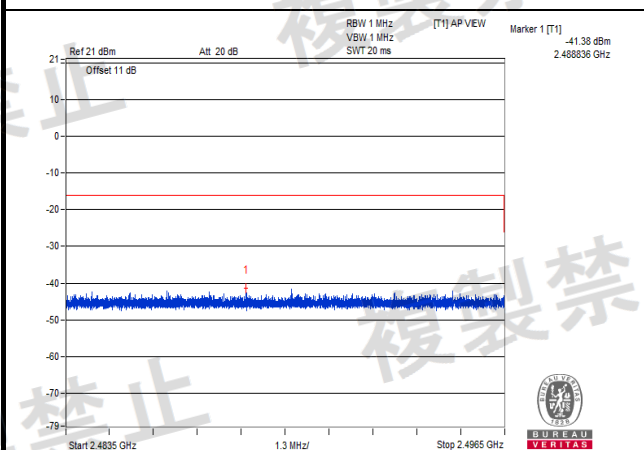
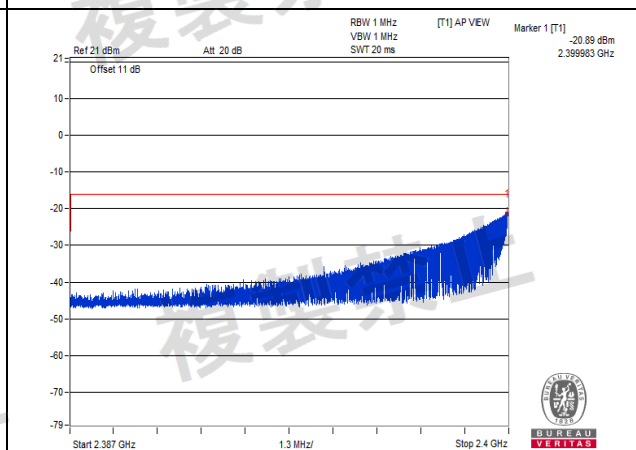
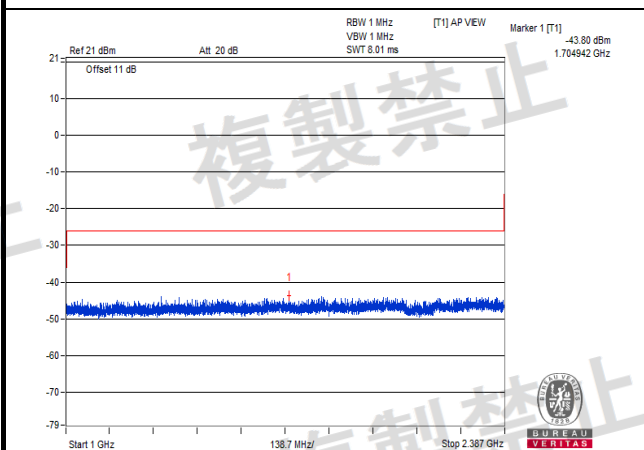
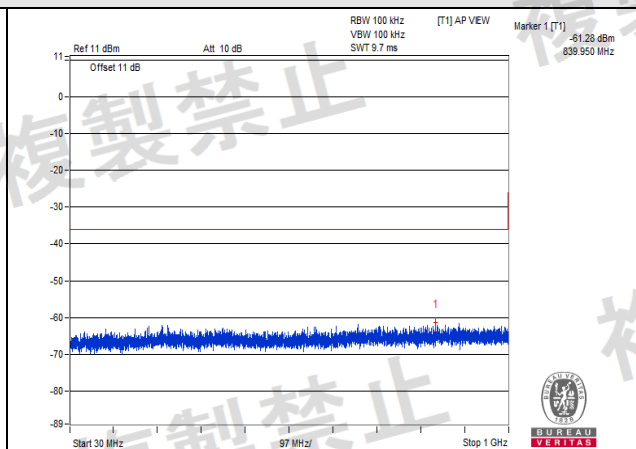
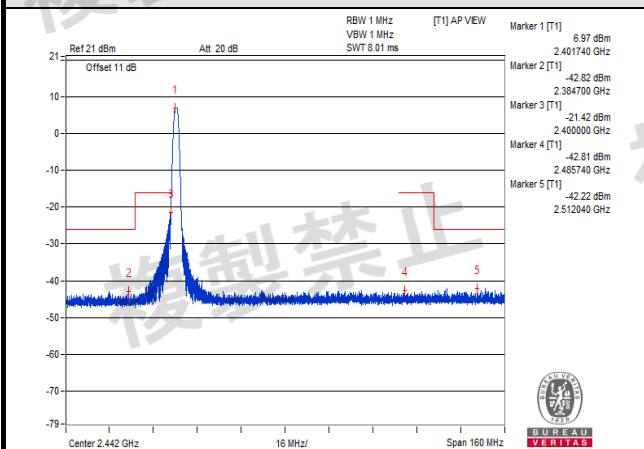


CH 0 (2402MHz)



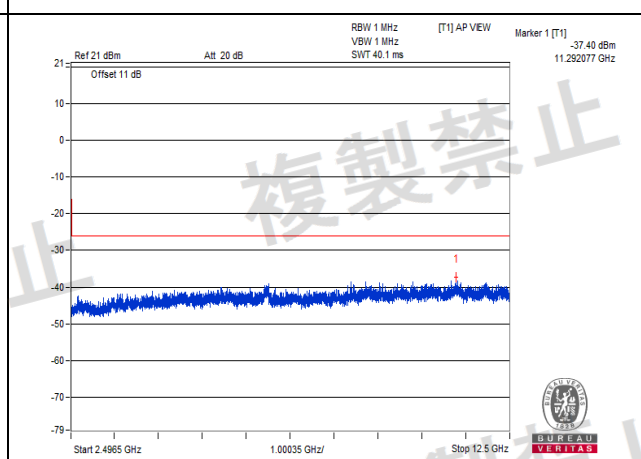
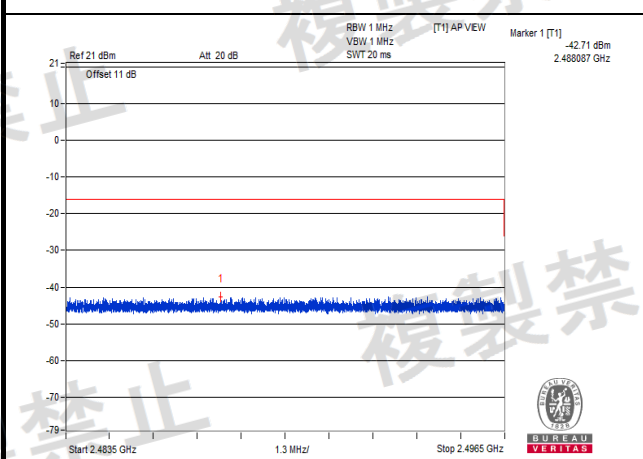
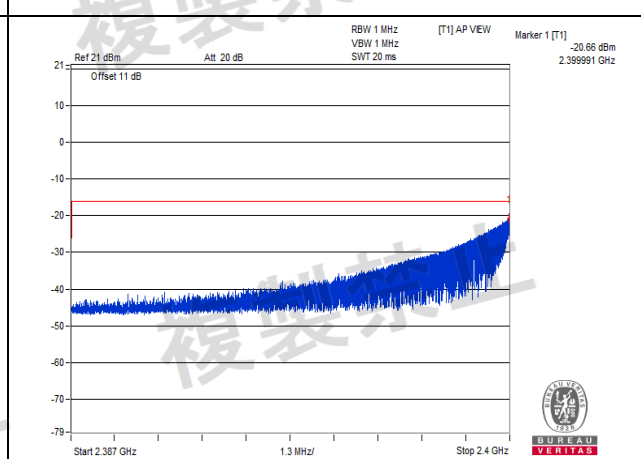
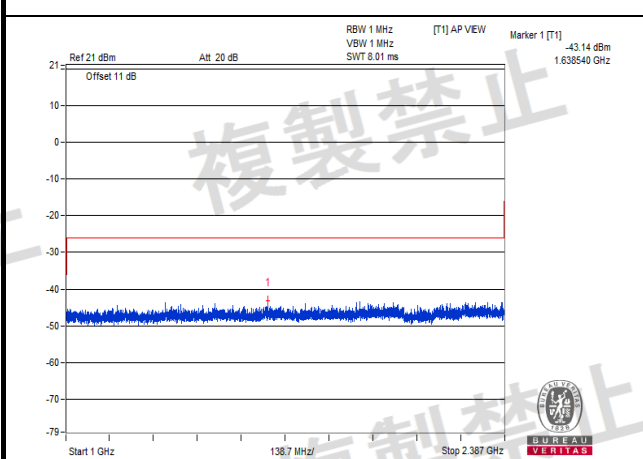
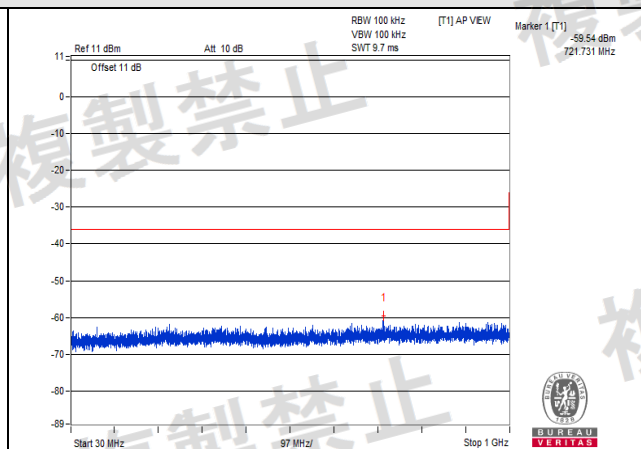
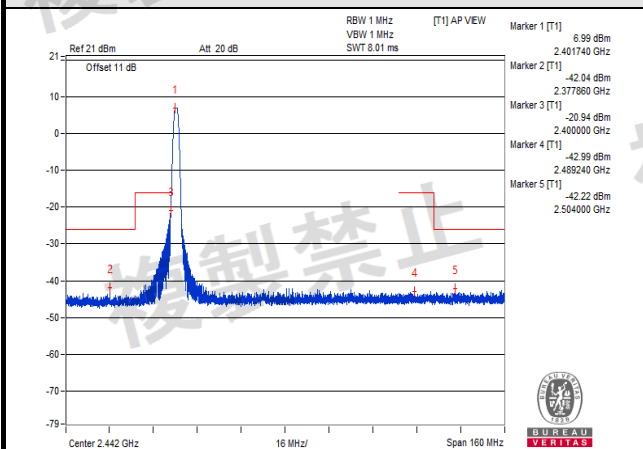
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V max.



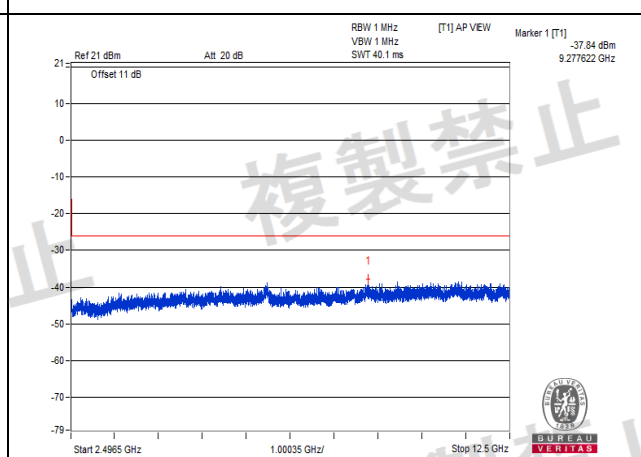
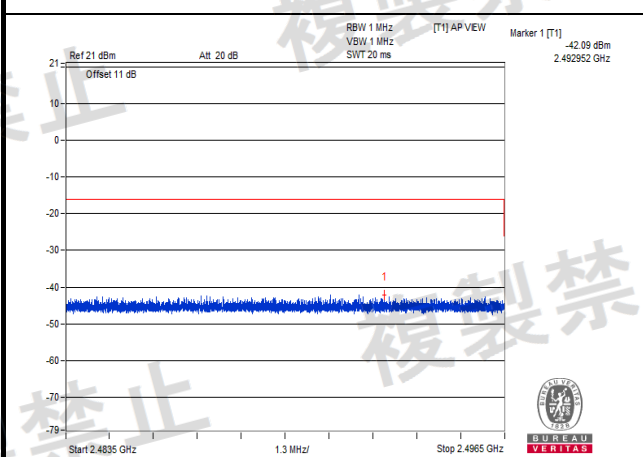
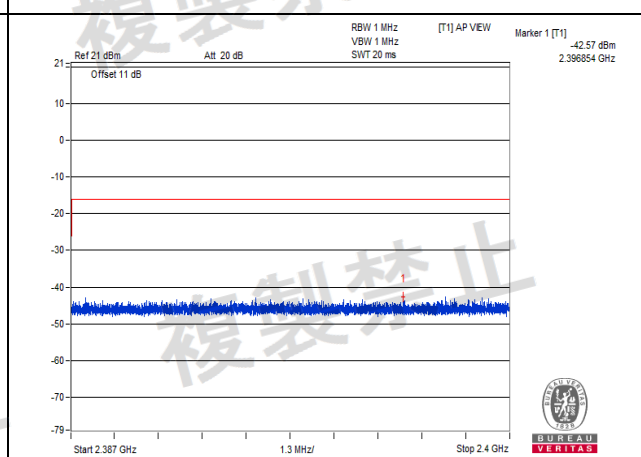
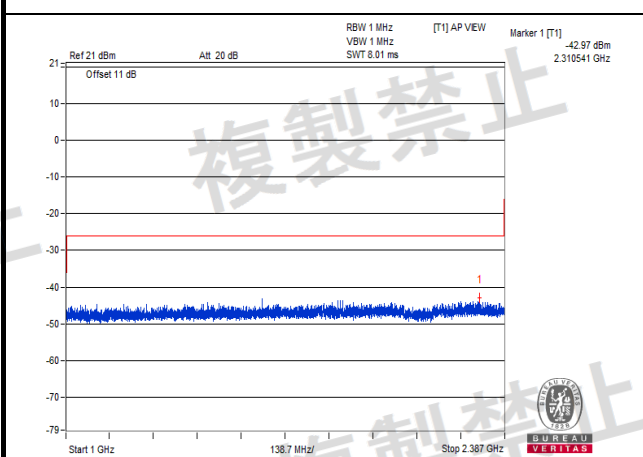
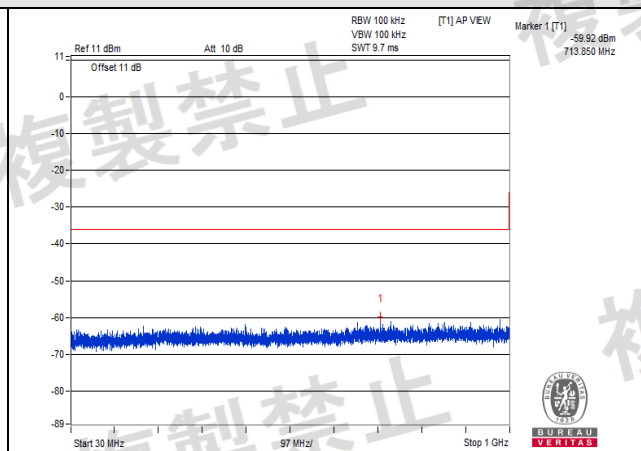
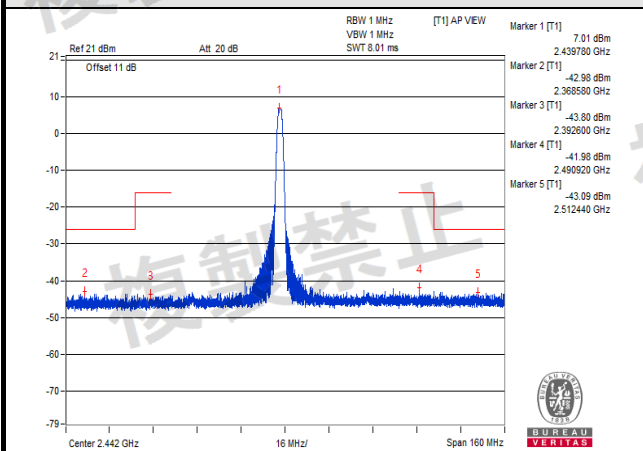
CH 0 (2402MHz)

V min.



CH 0 (2402MHz)

V normal

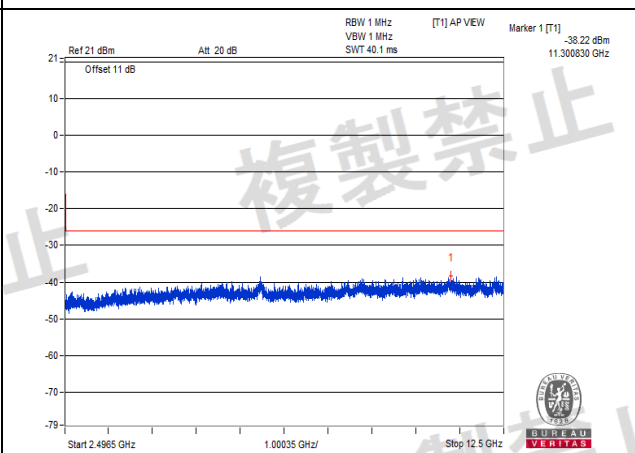
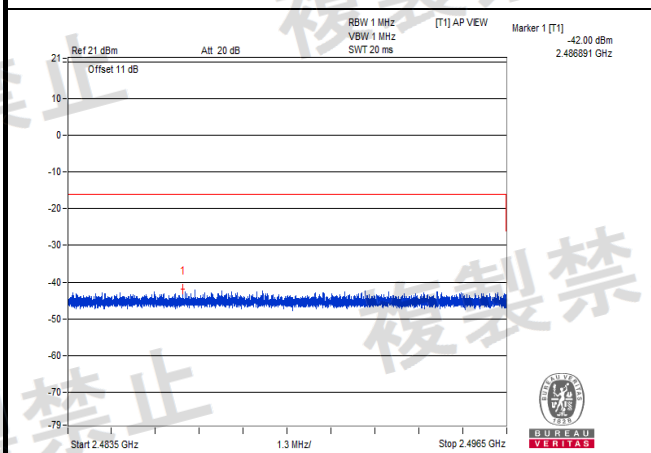
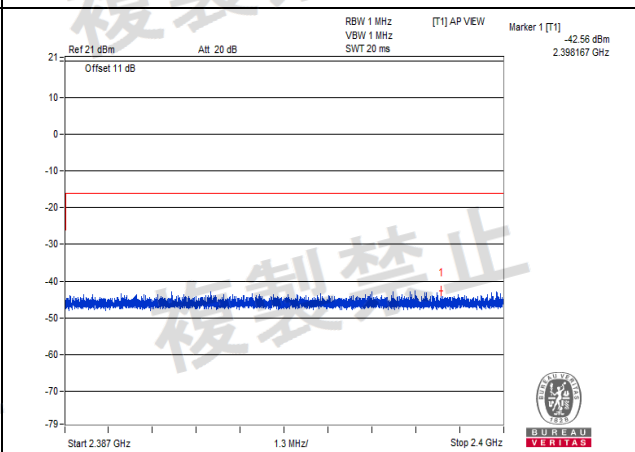
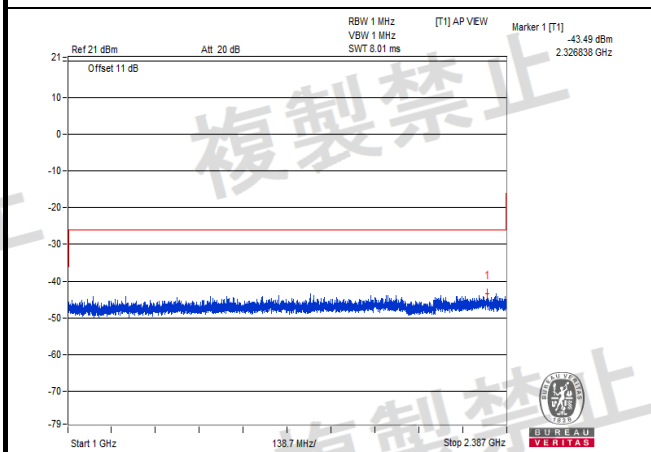
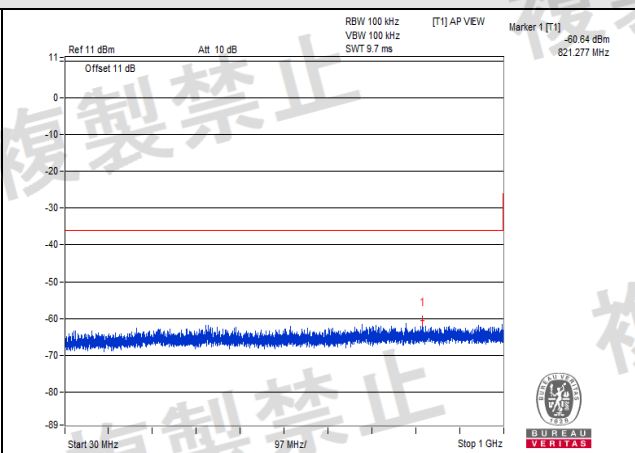
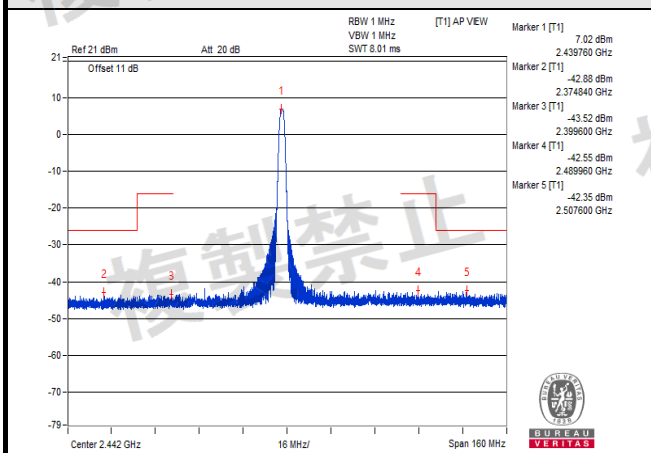


CH 19 (2440MHz)



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Vmax.

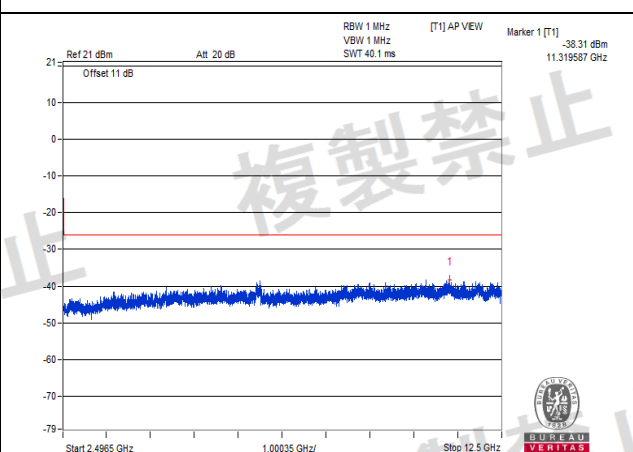
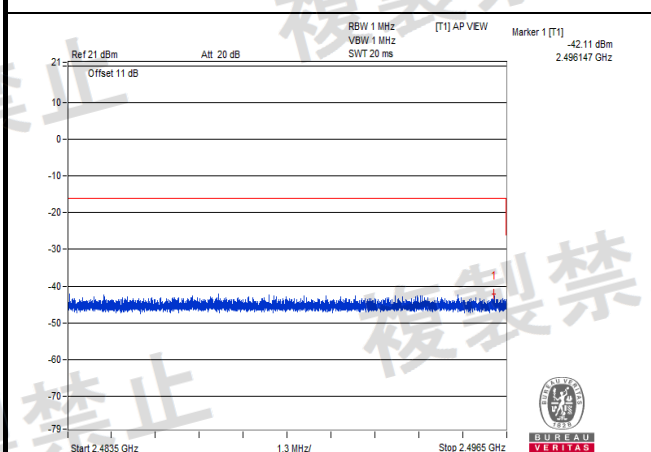
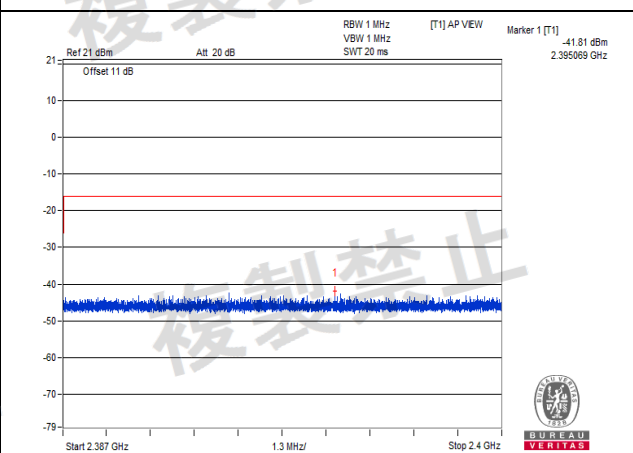
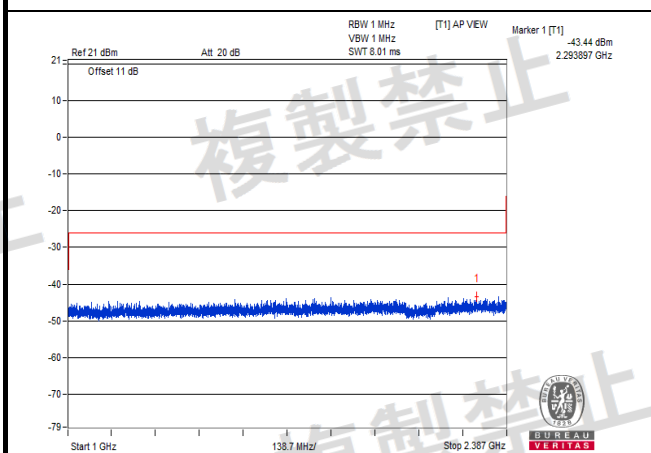
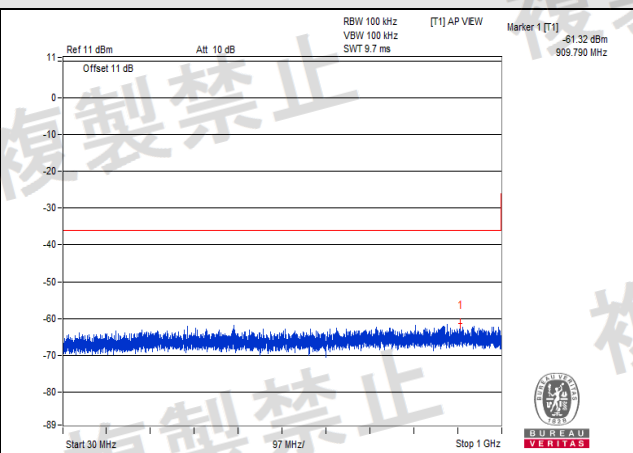
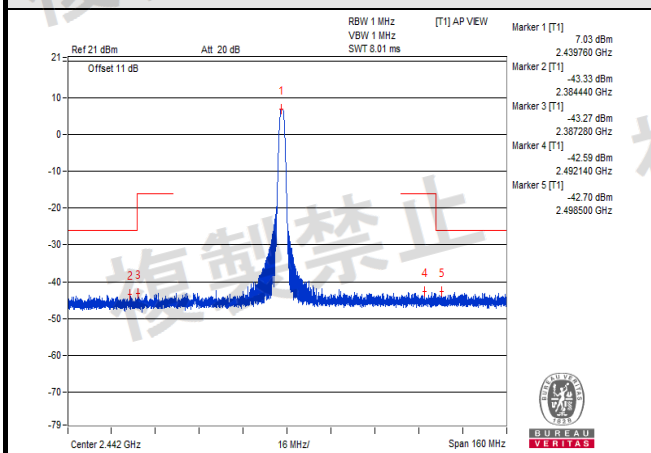


CH 19 (2440MHz)



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V_{min}.

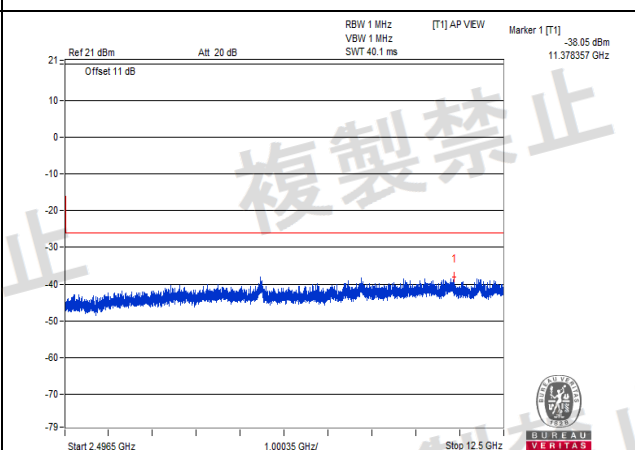
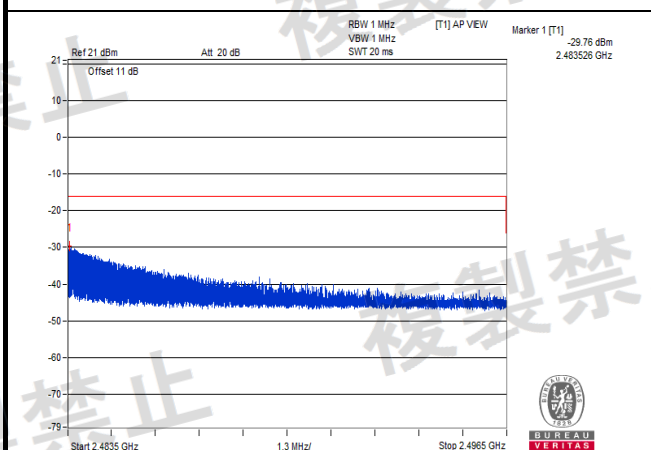
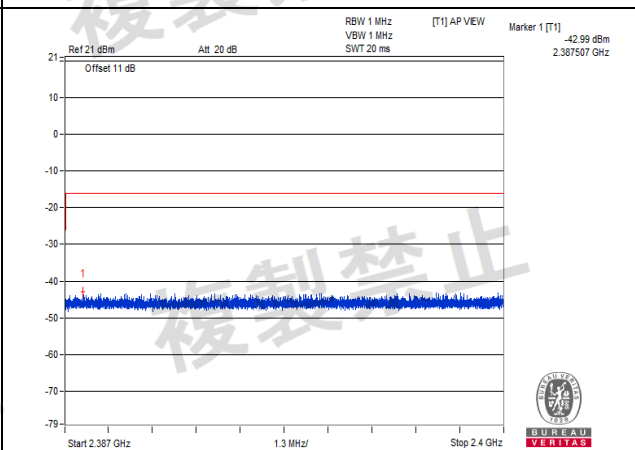
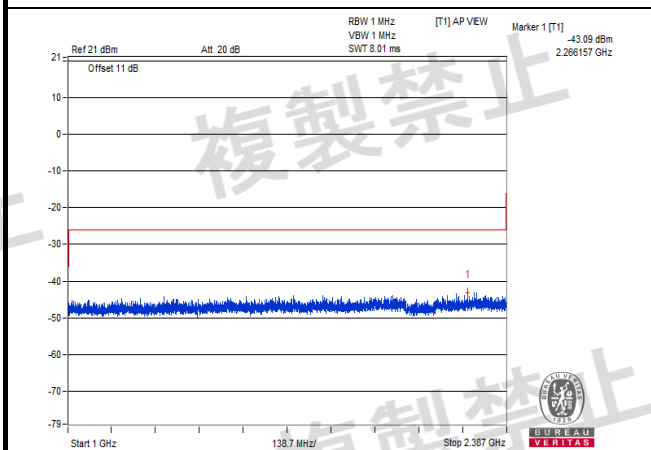
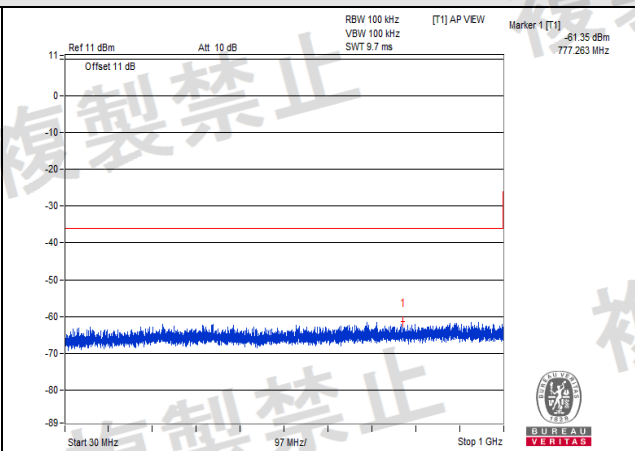
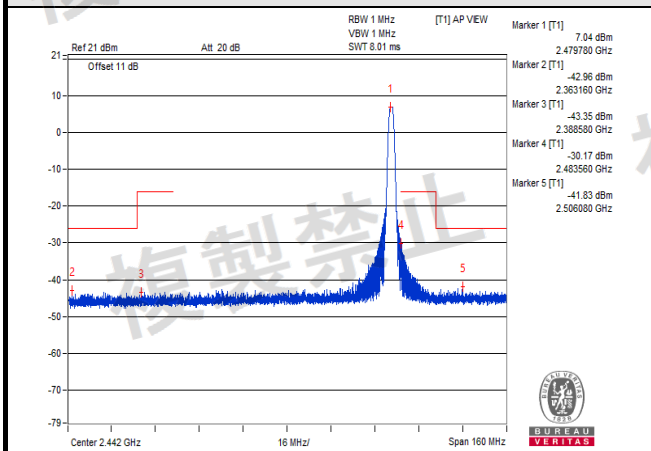


CH 19 (2440MHz)



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Vnormal

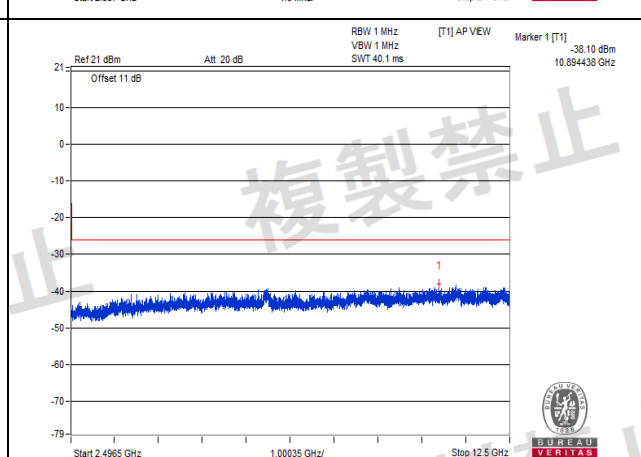
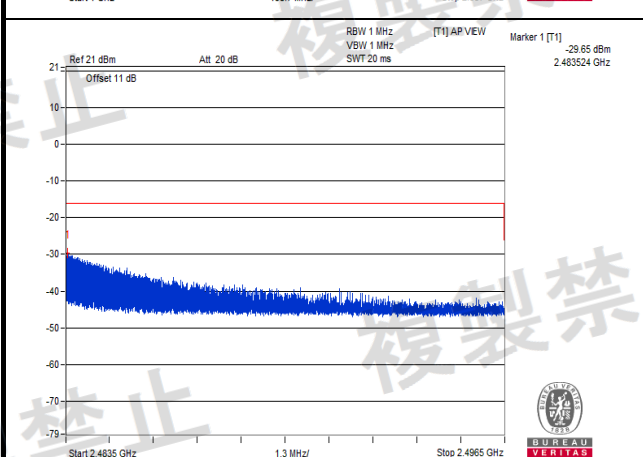
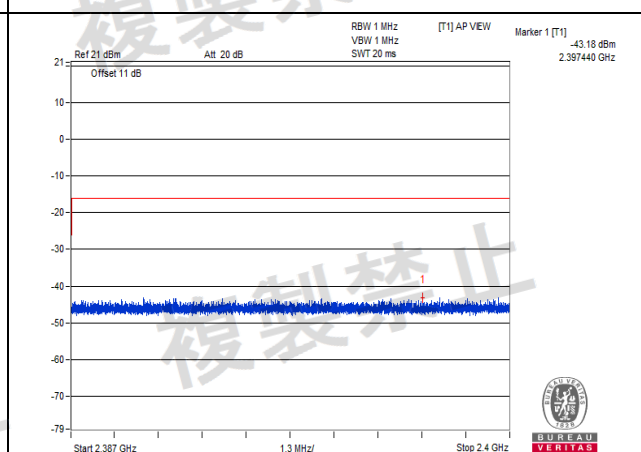
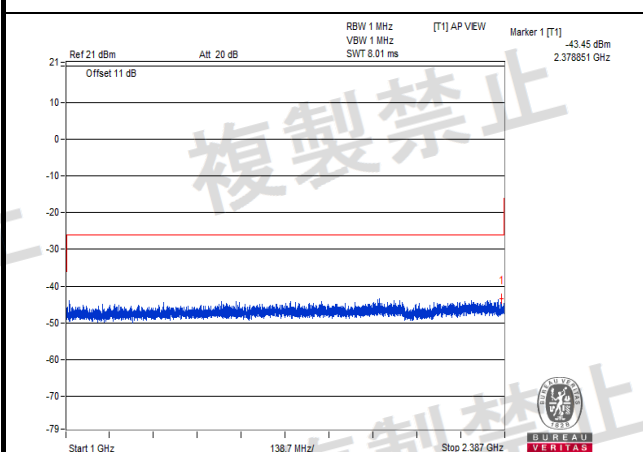
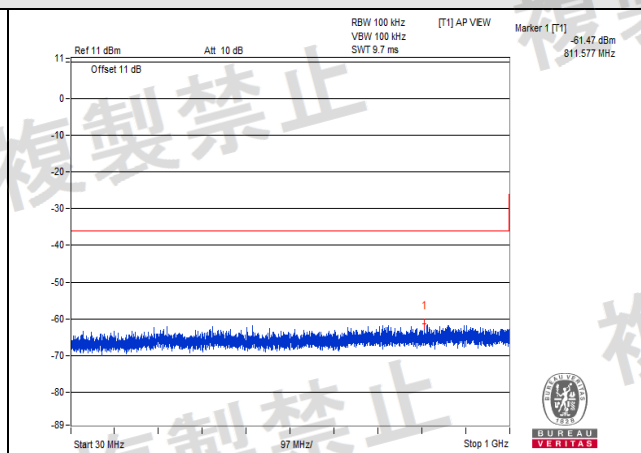
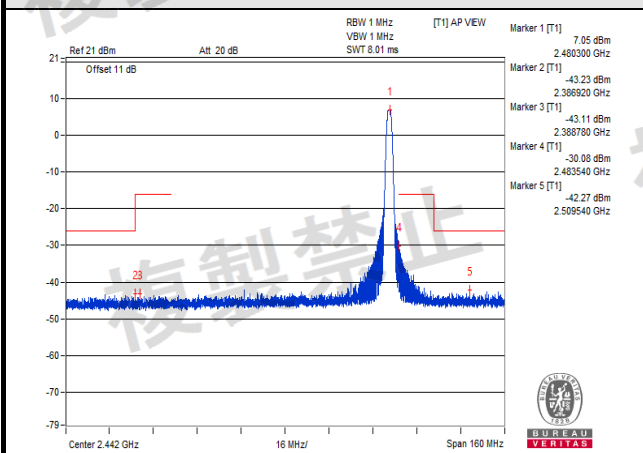


CH 39 (2480MHz)



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V_{max}

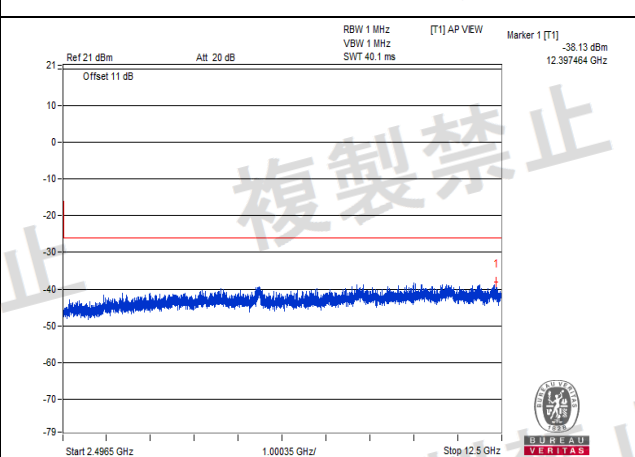
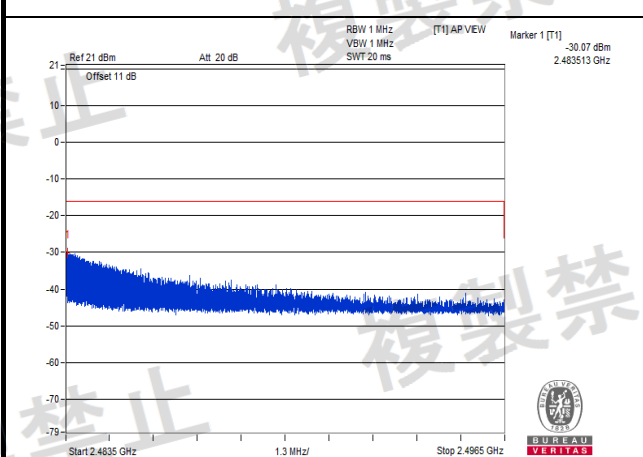
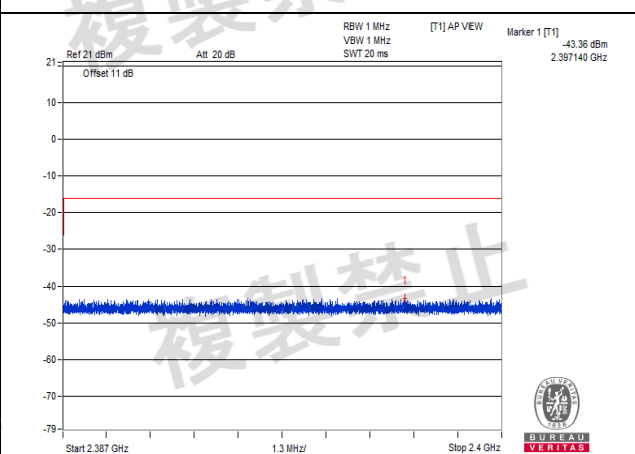
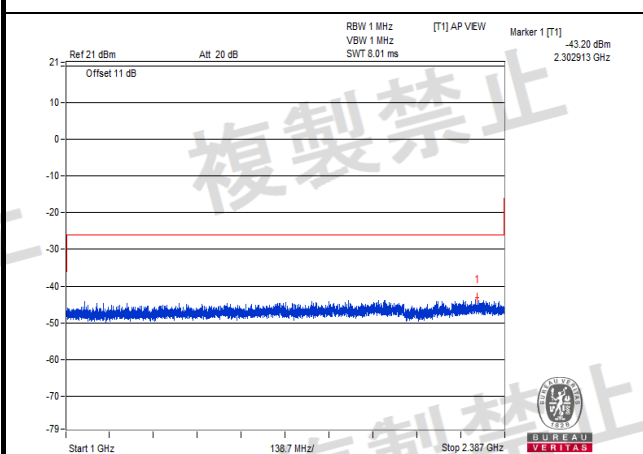
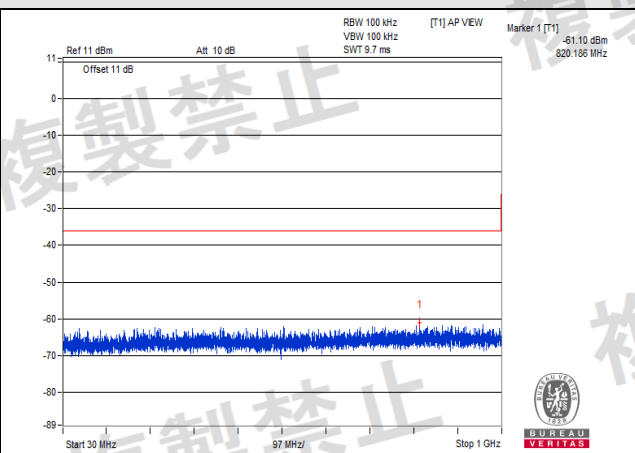
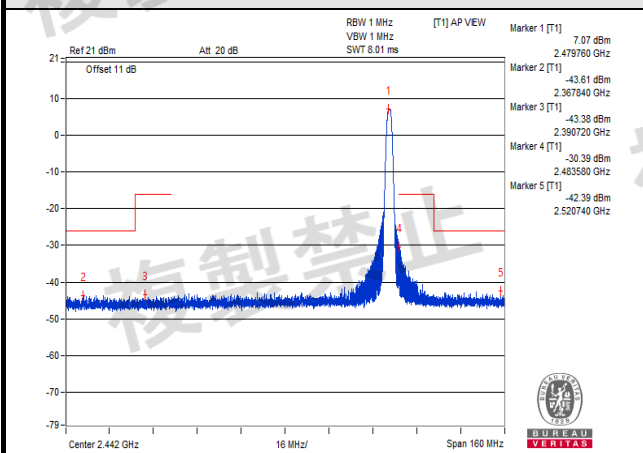


CH 39 (2480MHz)



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V_{min}.



CH 39 (2480MHz)

4.4 Antenna Power Measurement

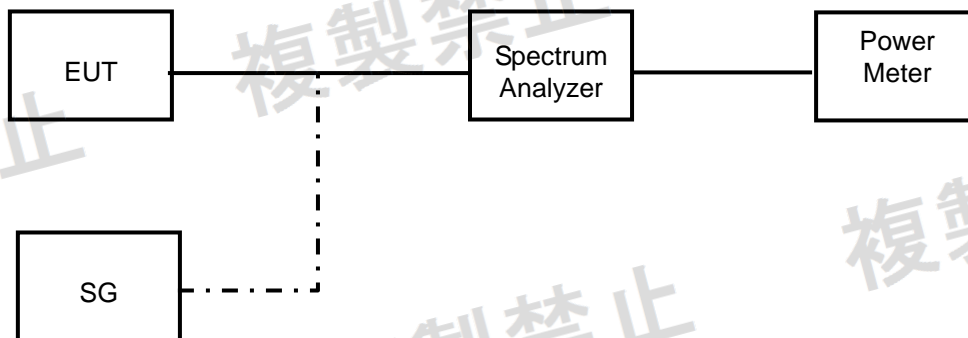
4.4.1 Limits of Antenna Power

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 (8.185 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	0.721	1.153
	19	2440	0.705	1.128
	39	2480	0.713	1.140
V_{max.}	0	2402	0.711	1.137
	19	2440	0.689	1.102
	39	2480	0.681	1.089
V_{min.}	0	2402	0.743	1.188
	19	2440	0.687	1.099
	39	2480	0.689	1.102
Max. Limit (mW)			10	-
Rated Power (mW)			1	-
Tolerance of Antenna Power (mW)			0.2 ~ 1.2	-
Max. EIRP Limit (mW)			-	16.368

Note: 1. Antenna gain is 2.04 dBi.

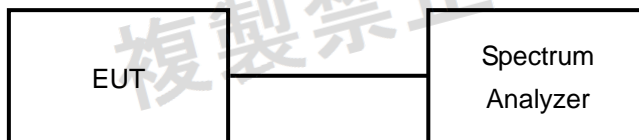
- The radiated RF output power is a “calculated” value derived from the conducted value.
- Formula: Radiated RF output power = Conducted RF output power + Antenna gain

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



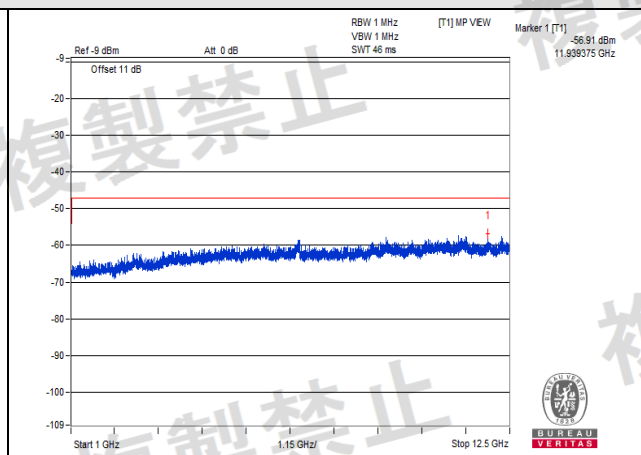
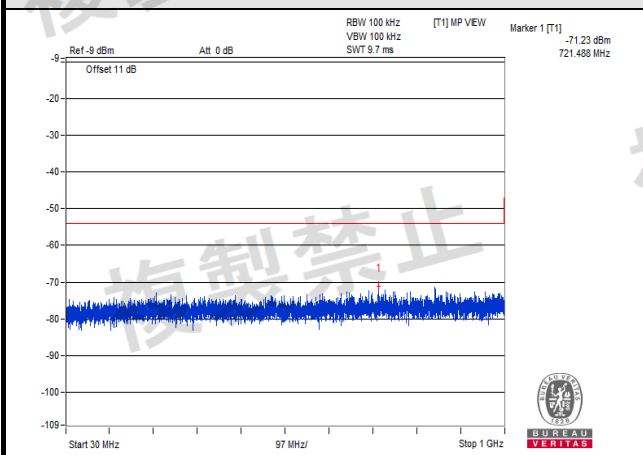
4.5.3 Test Result

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	721.488	0.075336	4.0	PASS
	1000MHz to 12500MHz	11939.375	2.037042	20.0	PASS
V_{max.}	30MHz to 1000MHz	714.698	0.109901	4.0	PASS
	1000MHz to 12500MHz	10683.000	1.468926	20.0	PASS
V_{min.}	30MHz to 1000MHz	987.268	0.063680	4.0	PASS
	1000MHz to 12500MHz	11281.000	1.729816	20.0	PASS
TEST CHANNEL		CH 19 (2440MHz)			
V_{normal}	30MHz to 1000MHz	721.852	0.088920	4.0	PASS
	1000MHz to 12500MHz	10881.375	1.527566	20.0	PASS
V_{max.}	30MHz to 1000MHz	814.608	0.068707	4.0	PASS
	1000MHz to 12500MHz	11196.187	1.648162	20.0	PASS
V_{min.}	30MHz to 1000MHz	815.457	0.070307	4.0	PASS
	1000MHz to 12500MHz	10362.437	1.513561	20.0	PASS
TEST CHANNEL		CH 39 (2480MHz)			
V_{normal}	30MHz to 1000MHz	884.206	0.068391	4.0	PASS
	1000MHz to 12500MHz	10690.187	2.365920	20.0	PASS
V_{max.}	30MHz to 1000MHz	691.055	0.059704	4.0	PASS
	1000MHz to 12500MHz	11298.250	1.640590	20.0	PASS
V_{min.}	30MHz to 1000MHz	814.972	0.069502	4.0	PASS
	1000MHz to 12500MHz	10690.187	1.559553	20.0	PASS

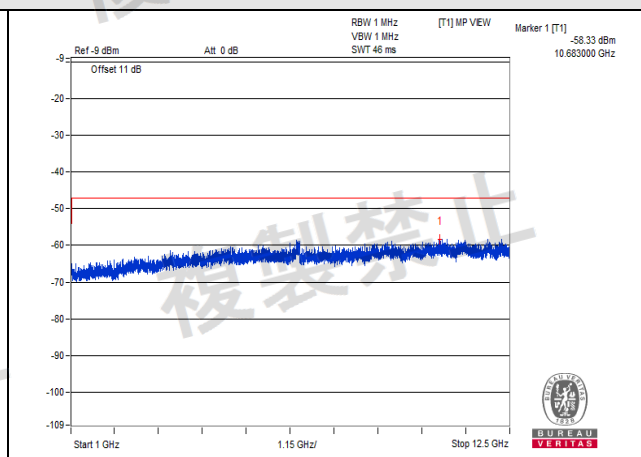
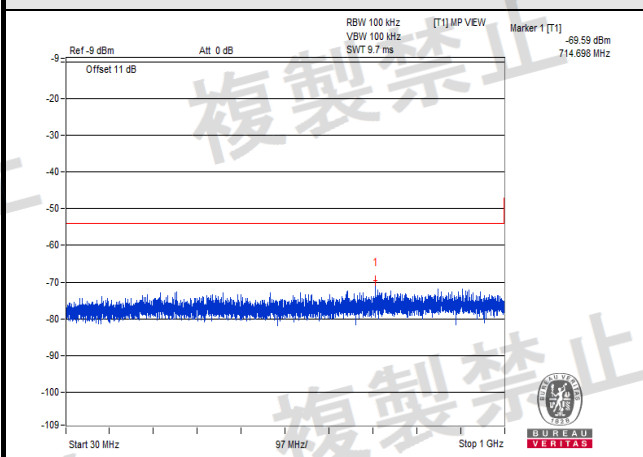


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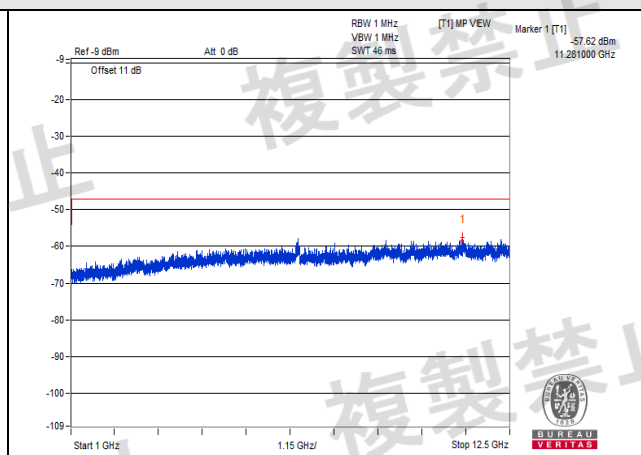
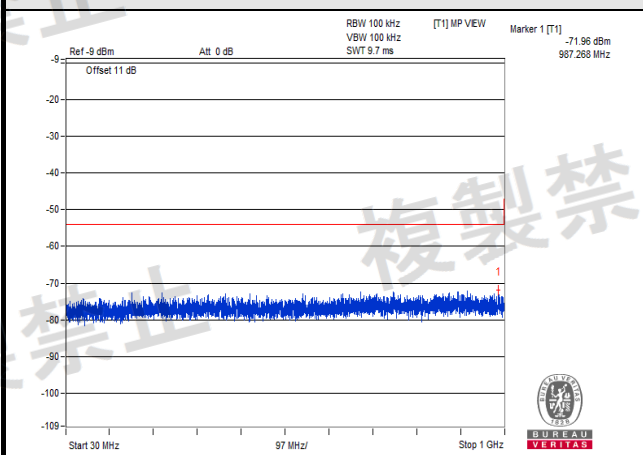
V_{normal}



V_{max.}



V_{min.}

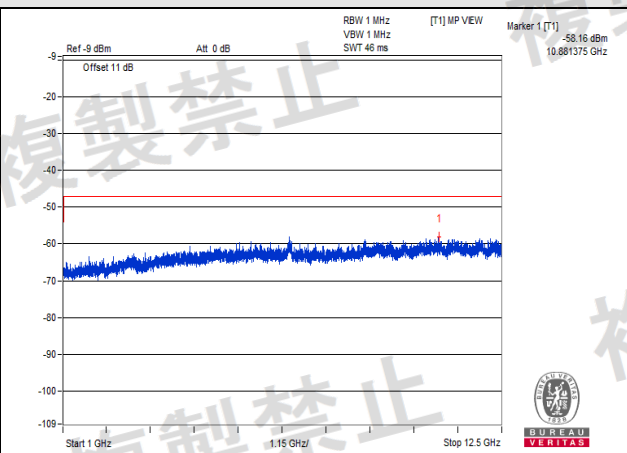
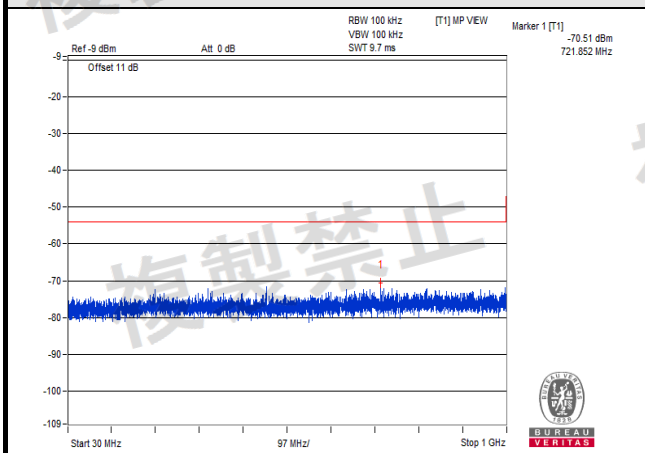


CH 0 (2402MHz)

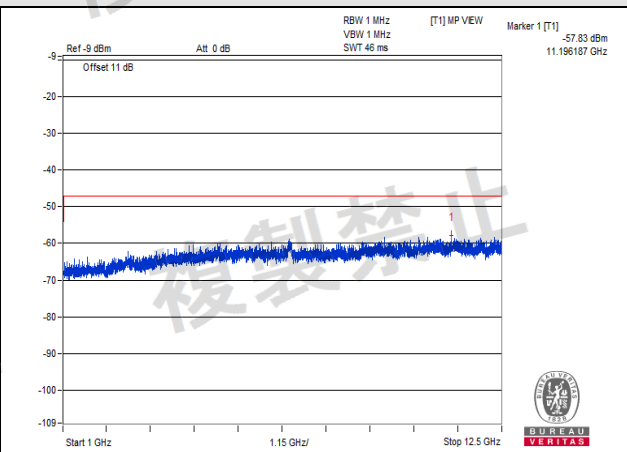
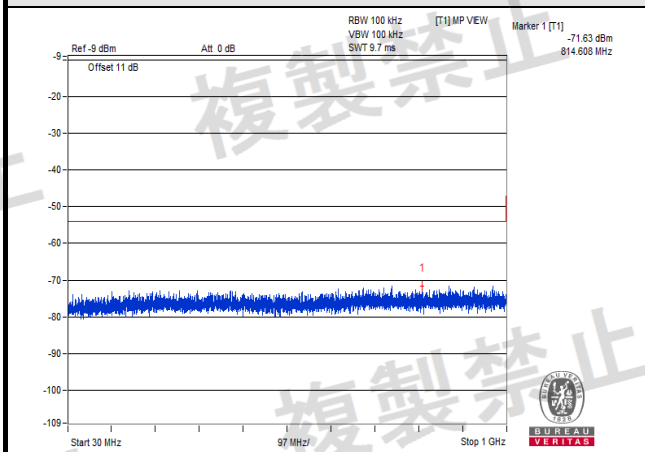


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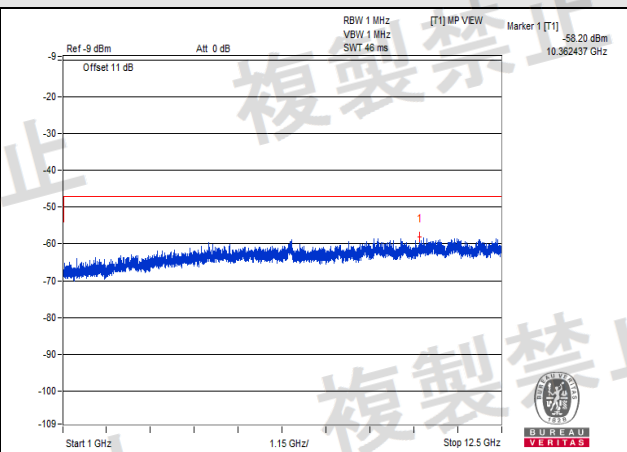
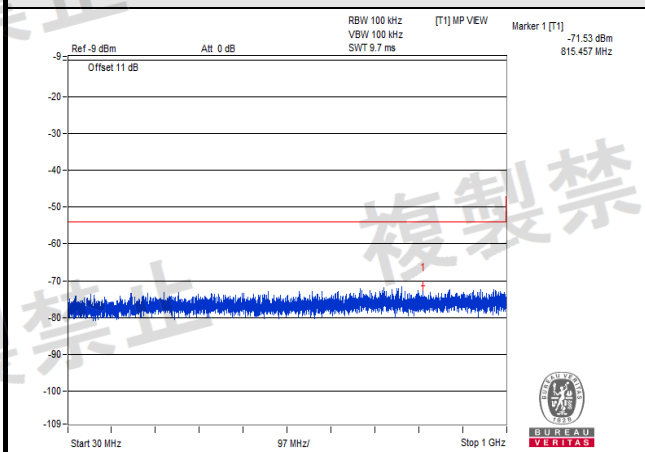
V normal



V max.



V min.

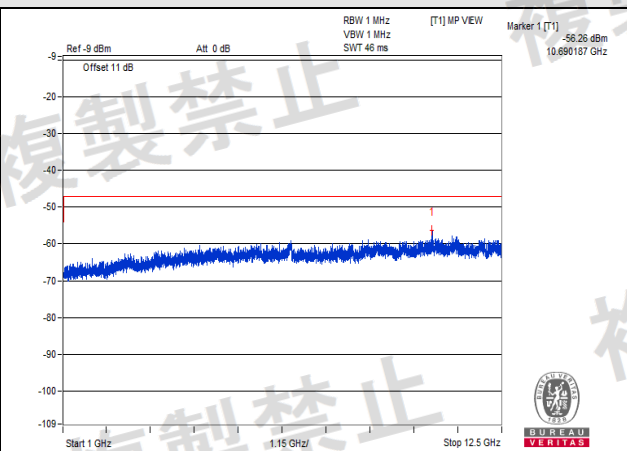
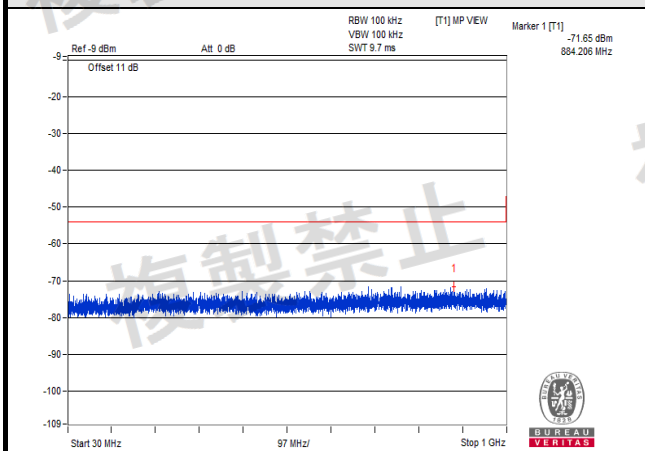


CH 19 (2440MHz)

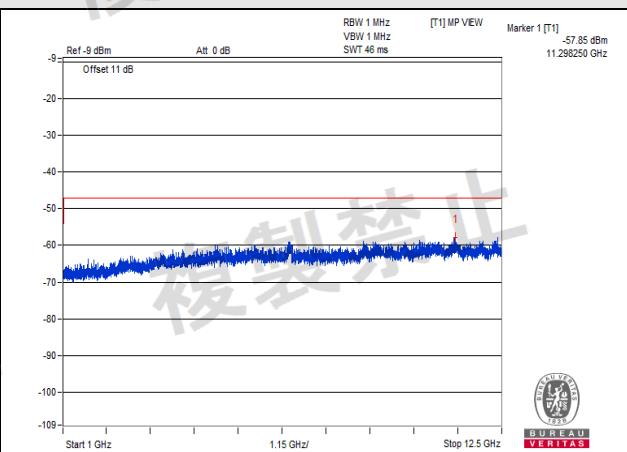
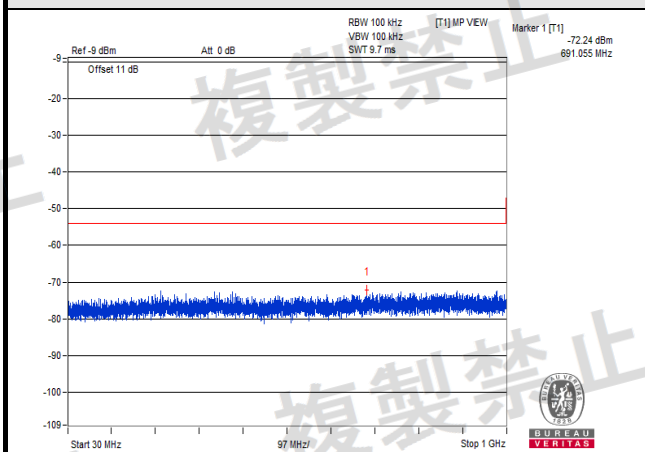


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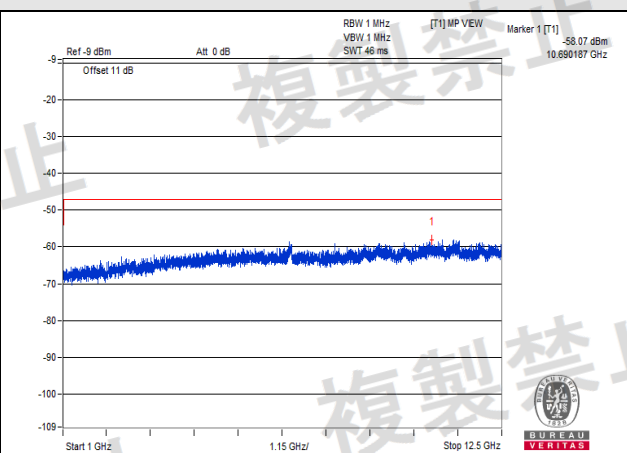
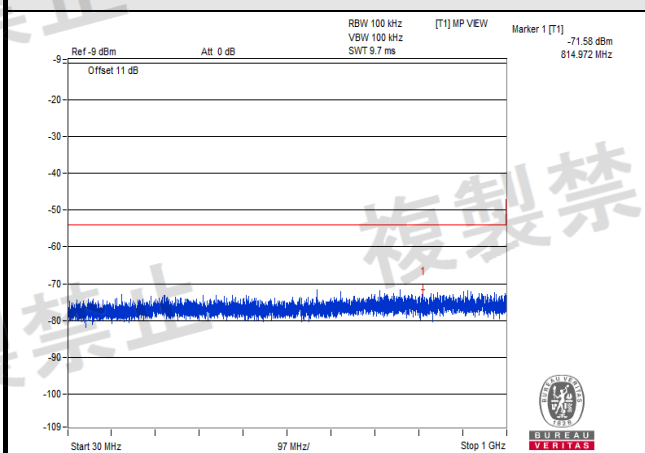
V normal



V max.



V min.



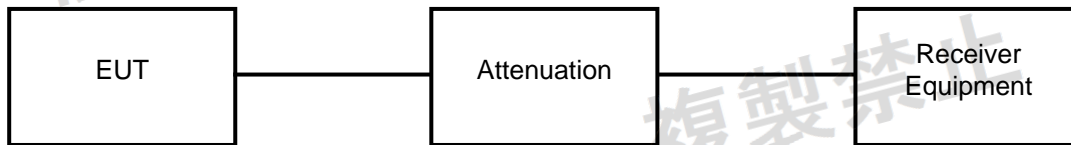
CH 39 (2480MHz)

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

NA

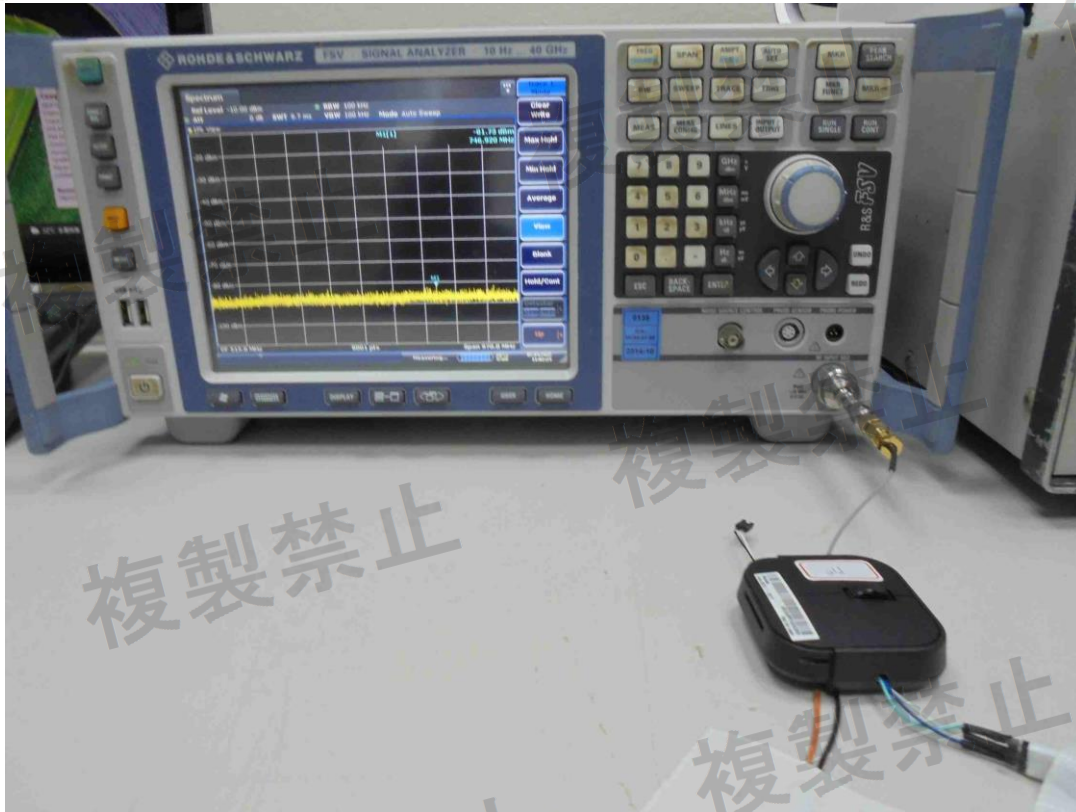
4.6.2 Test Setup



4.6.3 Test Results

Link Mode	Test Result
Bluetooth	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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Fax: 886-2-26051924

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Fax: 886-3-6668323

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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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