

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: Certification Ordinance Article 2-1-19
Report No.: RJBEOA-WTW-P25100473
Product: AM/FM ラジオ・Bluetooth ワイヤレススピーカー
Brand: SANGEAN
Model No.: WR-8J
Received Date: 2025/10/22
Test Date: 2025/11/20
Issued Date: 2025/12/3
Applicant: Sangean Electronics Inc.
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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
Test Location: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Approved by: _____

Jeremy Lin

, Date: _____

2025/12/3

Jeremy Lin / Project Engineer

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Prepared by : Vivian Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RJBEOA-WTW-P25100473	Original release.	2025/12/3

1 Certificate

Product: AM/FM ラジオ・Bluetooth ワイヤレススピーカー

Brand: SANGEAN

Test Model: WR-8J

Sample Status: Engineering sample

Applicant: Sangean Electronics Inc.

Test Date: 2025/11/20

Standard: Certification Ordinance Article 2-1-19

Measurement procedure: MIC notice 88 Appendix 43

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.

2 Summary of Test Results

Certification Ordinance Article 2-1-19		
Clause	Test Item	Result
OR: Article 5 OR: Annex 1 table 7-8	Frequency Tolerance	Pass
OR: Article 6 Annex 2.30	Occupied Bandwidth	Pass
OR: Article 7. Annex 3.26	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 24.2	Spurious Emissions of Receiver	Pass
OR: Article 49-20	Housing Requirements	Pass (Refer to Note 1)
OR: Article 49-20	Antenna Power	Pass
OR: Article 49-20	Absolute Gain of Transmitting Antenna	Pass
OR: Article 49-20	Angular Width of Principal Radiation (AWPR)	N/A
OR: Article 49-20	Number of Carriers within 1 MHz Bandwidth in OFDM	N/A
---	Spreading Bandwidth and Spreading Factor	- (Refer to Note 2)
OR: Article 49-20	Dwell Time (FH employed)	Pass
OR: Article 9-4.5 RE: Article 6-2.3 RE: Article 6-2.5	Interference Prevention Function	Pass
OR: Article 49-20	Carrier Sense Capability	N/A

Notes:

1. The relative information refer section 3.1 of this report.
2. The dwell time calculation is based on the spreading bandwidth.
3. OR: Ordinance Regulating Radio Equipment
4. RE: Regulations for Enforcement of the radio law
5. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)
Occupied Bandwidth	960 Hz
Spurious Emissions	2.7 dB
Output Power Density	1.3 dB
Frequency Tolerance	97.75 Hz

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	AM/FM ラジオ・Bluetooth ワイヤレススピーカー
Brand	SANGEAN
Test Model	WR-8J
Test Software Version	BK32xx RF Test_V1.8.2.exe
Status of EUT	Engineering sample
Power Supply Rating	DC IN 5V/2.4A Built-in Battery: Rechargeable Lithium-ion ICR18650-1S1P 3350mA/3.6V
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	FHSS
Transfer Rate	Up to 3 Mbps
Operating Frequency	2.402 GHz ~ 2.48 GHz
Number of Channel	79
Housing Requirements	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

Note:

1. The EUT has following accessories:

Item	Specification
Type-C USB cable	Shielded (1.2m)
FM Antenna cable	Non-shielded (1m)

2. 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 Output Power Description of EUT

Operation Mode	Rated Output Power Density (mW/MHz)	Maximum Conducted RF Output Power Density (mW/MHz)	Maximum Radiated RF Output Power Density (mW/MHz)
BT EDR	0.03	0.027766	0.026213
BT EDR AFH	0.11	0.109527	0.1034

3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Gain(dBi)	Antenna Type	Connector Type
-0.25	Monopole	none

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

3.4 Channel List

79 channels are provided for BT-EDR:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.5 Power Setting

Modulation	Power Setting
GFSK	3
$\pi/4$ -DQPSK	3
8DPSK	3

3.6 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vdc)
V_{normal}	5
$V_{max.}$	5.5
$V_{min.}$	4.5

Pre-Scan:	1.For Antenna Power has EUT with internal Battery (3.6V)/Connect the EUT to the DC Power Supply(5.0V) with a USB cable mode. Pre-scan these modes and find the worst case as a representative test condition.
Worst Case:	1.For Antenna Power: Connect the EUT to the DC Power Supply(5.0V) with a USB cable mode is the worst test configuration.

Following channel(s) was (were) selected for the final test as listed below:

Following channel(s) was (were) selected for the final test as listed below.

Test Item	Tested Channel	Modulation	Data Rate Parameter
Frequency Tolerance	0, 39, 78	unmodulated	-
Occupied Bandwidth	Hopping Channel	GFSK	DH5
		$\pi/4$ -DQPSK	2DH5
		8DPSK	3DH5
Spurious Emissions	Hopping Channel	GFSK	DH5
		$\pi/4$ -DQPSK	2DH5
		8DPSK	3DH5
Spurious Emissions of Receiver	0, 39, 78	-	-
Antenna Power	Hopping Channel	GFSK	DH5
		$\pi/4$ -DQPSK	2DH5
		8DPSK	3DH5
Dwell Time	Hopping Channel	GFSK	DH1, DH3, DH5
		$\pi/4$ -DQPSK	2DH1, 2DH3, 2DH5
		8DPSK	3DH1, 3DH3, 3DH5
Interference Prevention Function	Normal Operation		
Note:			
1. For AFH function only tested occupied bandwidth, spreading bandwidth, Antenna power and dwell time.			

4 Test Instruments

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

4.1 Frequency Tolerance

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
PXA Signal Analyzer Keysight	N9030A	MY54490260	2025/7/24	2026/7/23	ETC	(c)
Signal Analyzer R&S	FSV40	101544	2025/7/1	2026/6/30	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A

Notes:

- 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).
 - 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).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in LK - Oven
- Tested Date: 2025/11/20

4.2 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Spurious Emissions

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 Spurious Emissions of Receiver

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Antenna Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
Pulse Power Sensor Anritsu	MA2411B	1339443	2025/5/28	2026/5/27	ETC	(c)
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2	ETC	(c)
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20	ETC	(c)

Notes:

- 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).
 - 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).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in LK - Oven
- Tested Date: 2025/11/20

4.6 Dwell Time

Refer to section 4.1 to get the tested date and information of the instruments.

4.7 Interference Prevention Function

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Wireless Connectivity Tester R&S	CMW270	101075	2025/7/14	2026/7/13	ETC	(c)
		102033	2025/9/12	2026/9/11	ETC	(c)

Notes:

- 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).
 - 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).
- The test was performed in LK - Adaptive
- Tested Date: 2025/11/20

5 Limits of Test Items

5.1 Frequency Tolerance

Tolerance of frequency shall be +/- 50ppm.

5.2 Occupied Bandwidth

Modulation Method	Limit
DSSS	<26 MHz
OFDM	<26 MHz
	26 – 40 MHz
FHSS	<83.5 MHz
Other Digital	<26 MHz

5.3 Spurious Emissions

Frequencies	Limit
Operating frequency 2400 to 2483.5 MHz	
30.0 MHz to 1000.0 MHz	$\leq 0.25 \text{ uW/100 kHz}$
1000.0 MHz to 2387 MHz	$\leq 2.5 \text{ uW/MHz}$
2387.0 MHz to 2400.0 MHz	$\leq 25 \text{ uW/MHz}$
2483.5 MHz to 2496.5 MHz	$\leq 25 \text{ uW/MHz}$
2496.5 MHz to 12500.0 MHz	$\leq 2.5 \text{ uW/MHz}$

5.4 Spurious Emissions of Receiver

Frequencies	Limit
Below 1 GHz	$\leq 4 \text{ nW}$
Above 1 GHz	$\leq 20 \text{ nW}$

5.5 Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	E.I.R.P. Limit (Note 3)
DSSS	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)
FHSS	2400 – 2483.5 MHz	3 mW/MHz	6.91 dBm/MHz ~ 16.91 dBm/MHz (4.91 mW/MHz ~ 49.10 mW/MHz)
Other Digital	2400 – 2483.5 MHz	10 mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Notes:

- Occupied bandwidth is less than 26 MHz.
- Occupied bandwidth is more than 26 MHz and less than 40 MHz.
- E.I.R.P. limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360 / A degrees or less, where A = E.I.R.P. / (2.14 dBi + "Antenna Power (limit)").
- Tolerance of antenna power shall be +20% (upper value).

5. When an E.I.R.P. is less than 2.14 dBi + antenna power limit. The shortage can be compensated for by the antenna power. (Application to transmitting devices using "Other method" is Limited to "GFSK")

5.6 Dwell Time

The frequency retention time in the frequency hopping method shall be 0.4 second or less. The total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter.

Formula:

(Normal mode) dwell time = [diffusion rate/ 79] x duty-cycle x 0.4 seconds

(AFH mode) dwell time = [diffusion rate/20] x duty-cycle x 0.4 sec

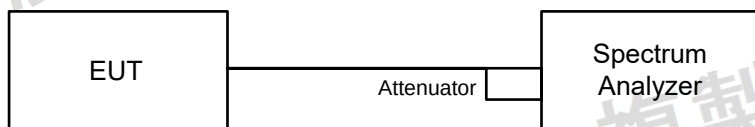
5.7 Interference Prevention Function

When conducting wireless communications that transmit data or other information: A function that automatically sends or receives an identification code.

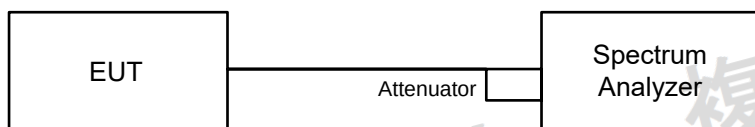
When performing radiolocation work: A function that allows you to distinguish between reflected waves of radio waves transmitted by your own station and radio waves transmitted by other radio stations by identifying the modulation method and other characteristics of received radio waves. (However, if it also has the function of transmitting signals for data transmission, both functions shall be included.)

6 Test Arrangements

6.1 Frequency Tolerance



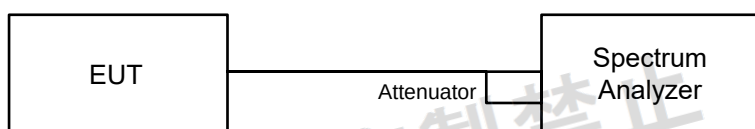
6.2 Occupied Bandwidth



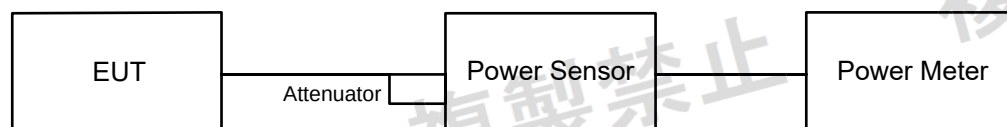
6.3 Spurious Emissions



6.4 Spurious Emissions of Receiver



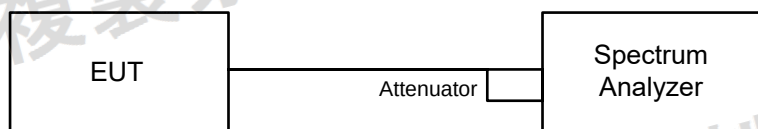
6.5 Antenna Power



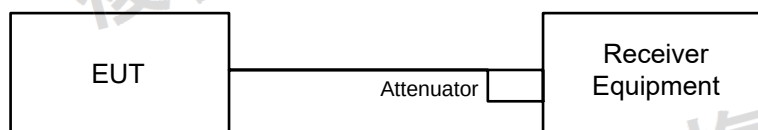
Output Power Density (mW/MHz) = Total Output Power (mW) / Spread Bandwidth (MHz)

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.6 Dwell Time



6.7 Interference Prevention Function



7 Test Results of Test Item

7.1 Frequency Tolerance

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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GFSK

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	2402.036464	15.181	2402.036352	15.134	2402.036324	15.122
39	2441	2441.036833	15.089	2441.036775	15.066	2441.036717	15.042
78	2480	2480.037302	15.041	2480.037215	15.006	2480.037186	14.994

7.2 Occupied Bandwidth

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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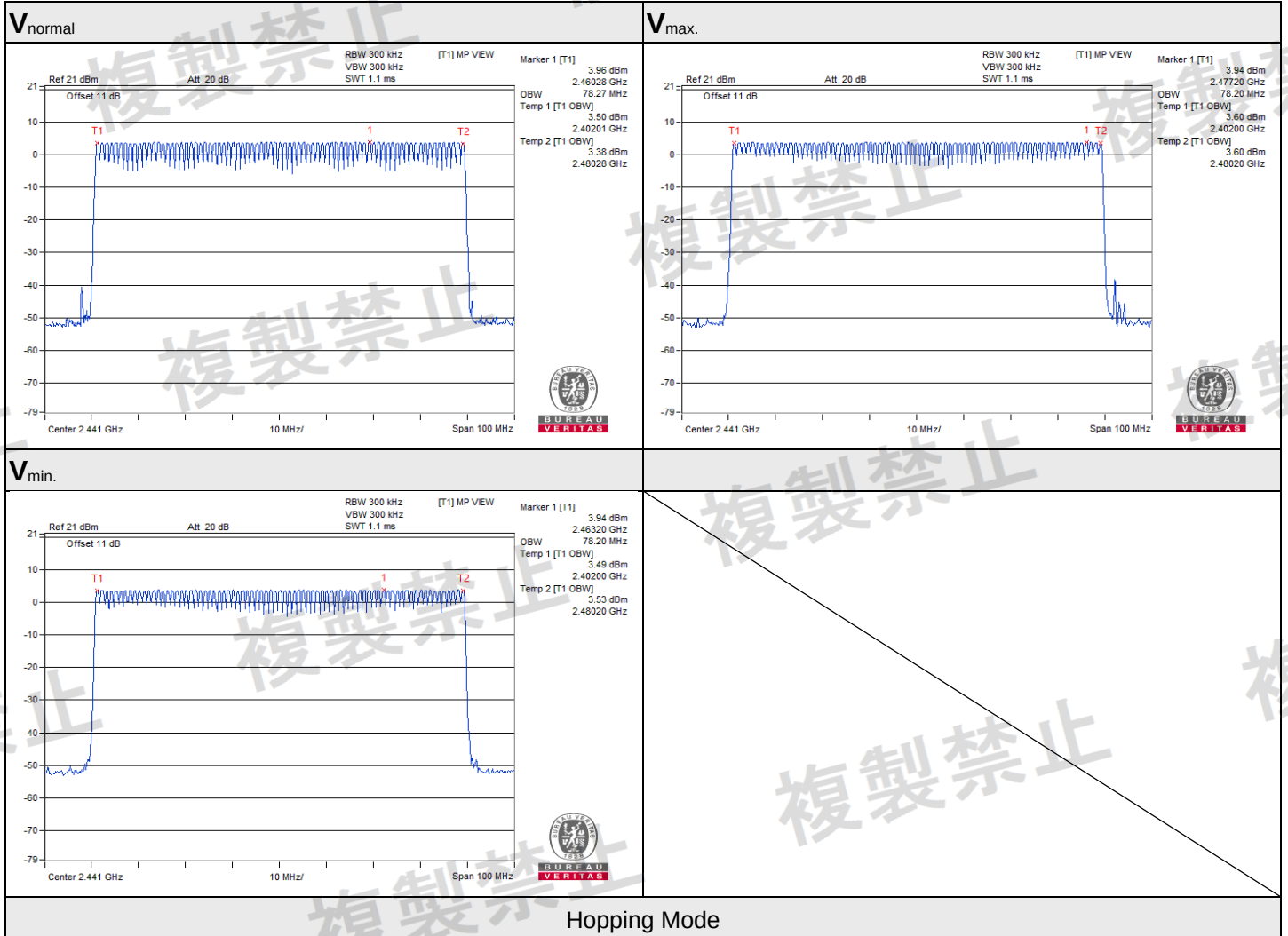
GFSK: Normal Mode

V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
78.27	78.20	78.20

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



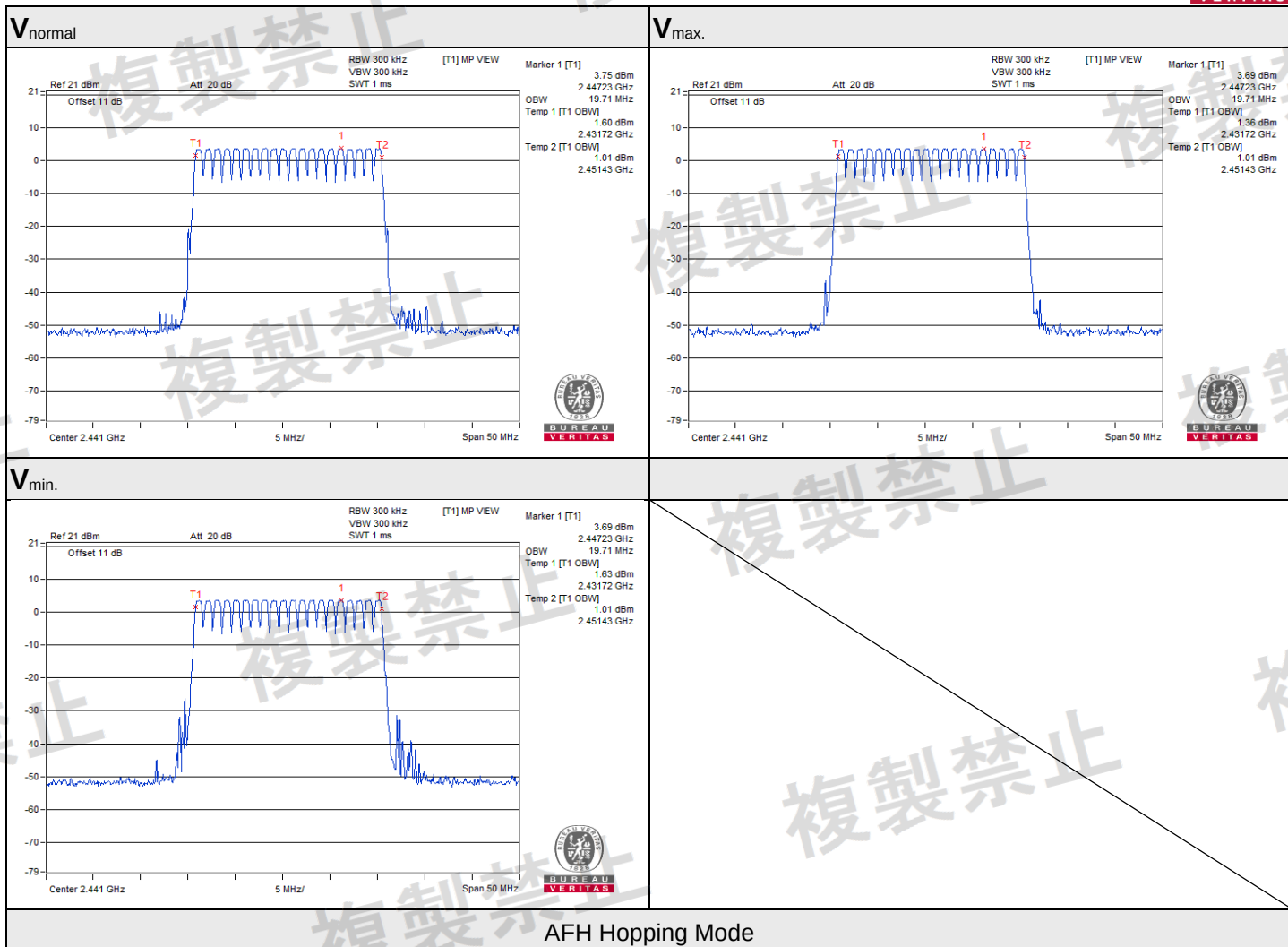
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GFSK: AFH Mode

V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
19.71	19.71	19.71

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



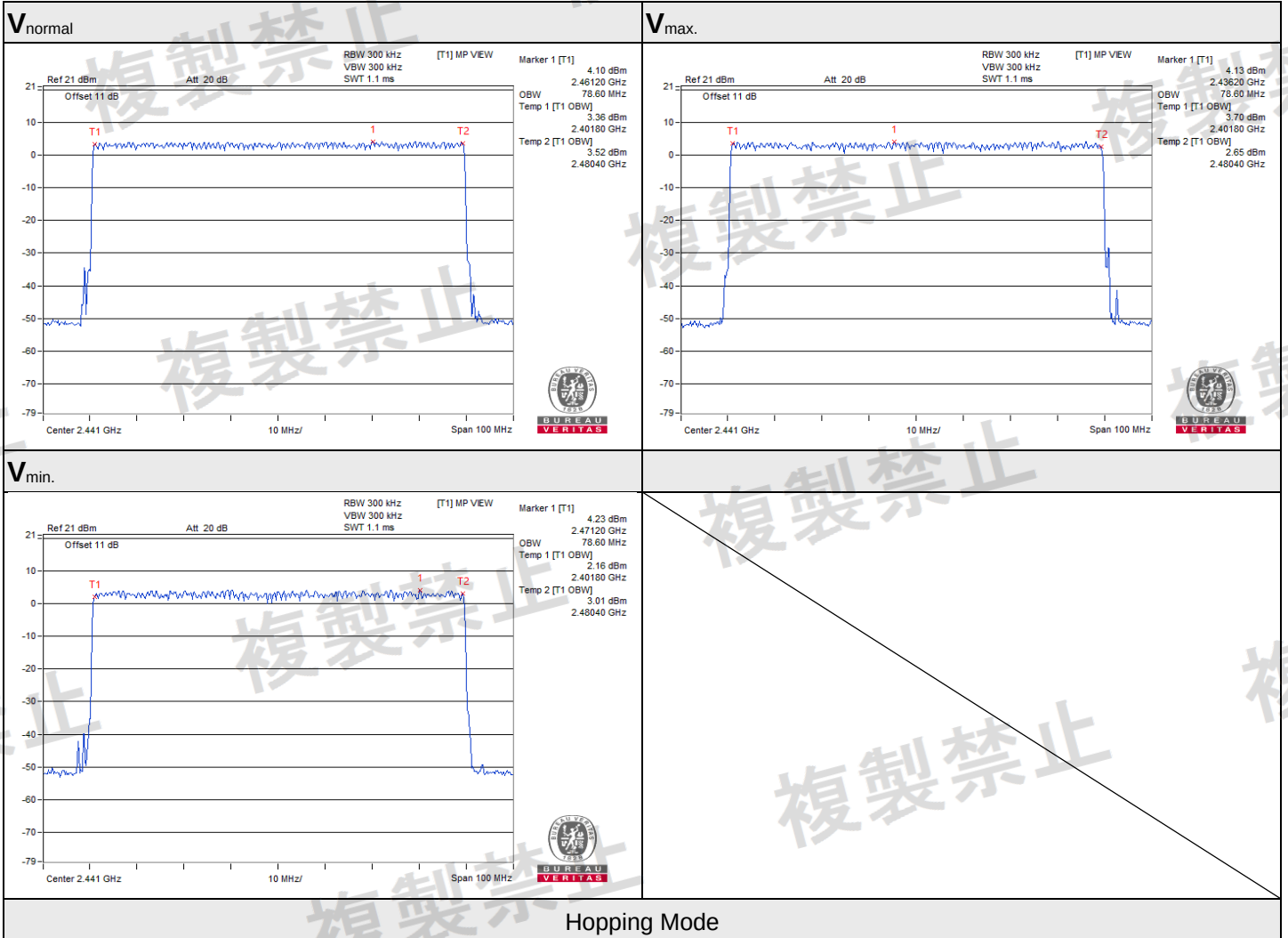
$\pi/4$ -DQPSK: Normal Mode

V_{normal}	$V_{max.}$	$V_{min.}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
78.60	78.60	78.60

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



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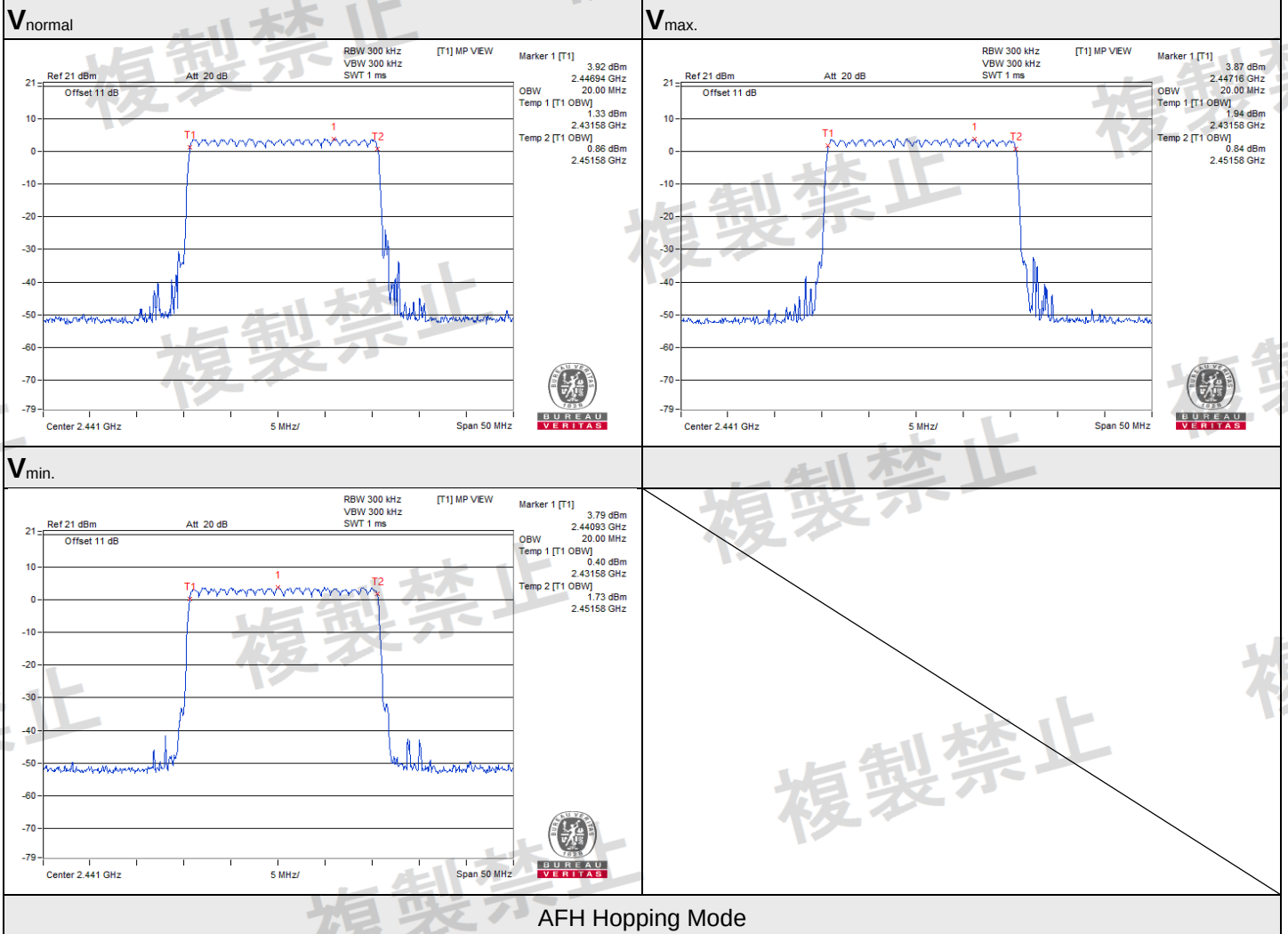
$\pi/4$ -DQPSK: AFH Mode

V_{normal}	$V_{max.}$	$V_{min.}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
20.00	20.00	20.00

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



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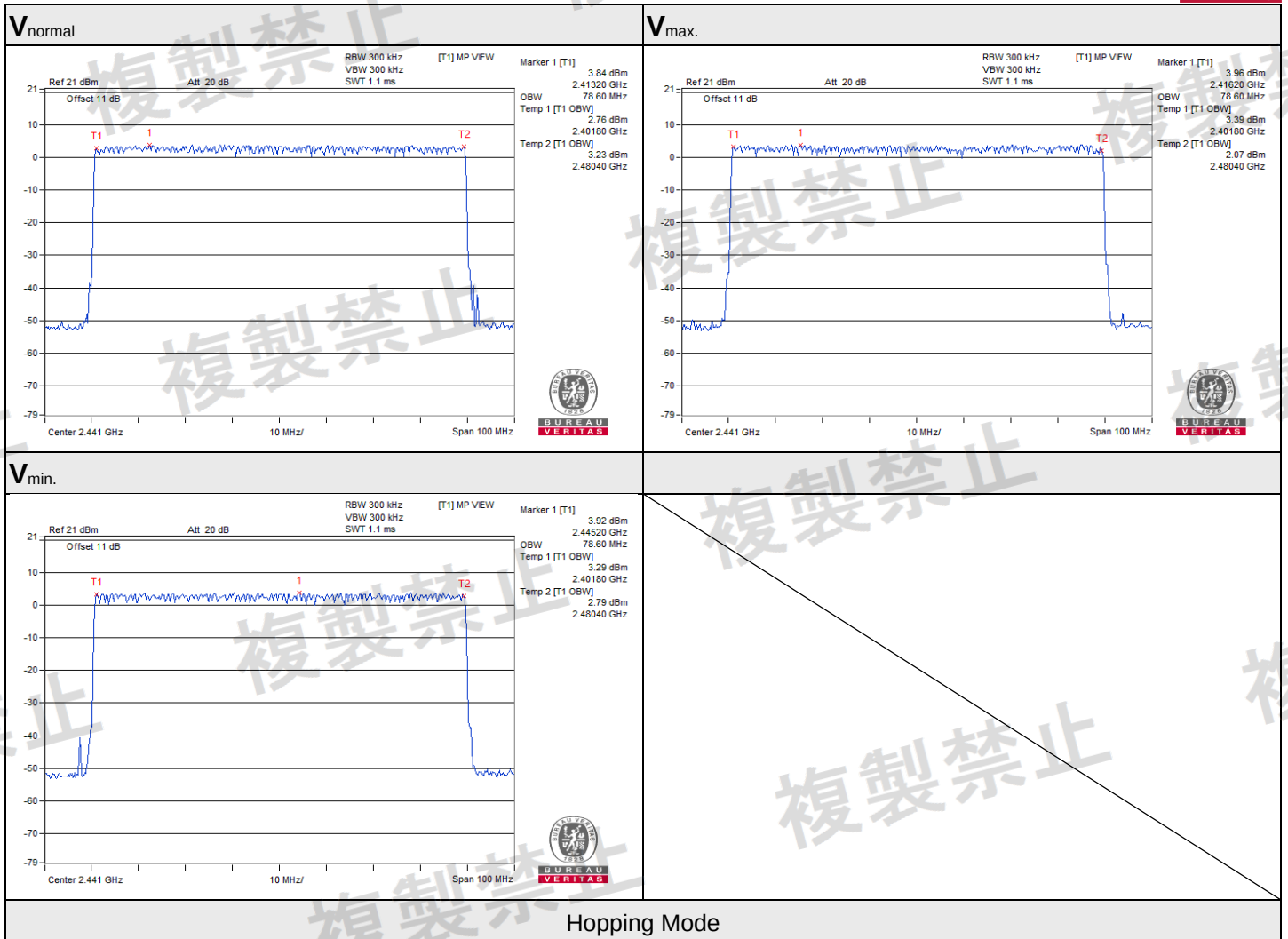
8DPSK: Normal Mode

V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
78.60	78.60	78.60

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



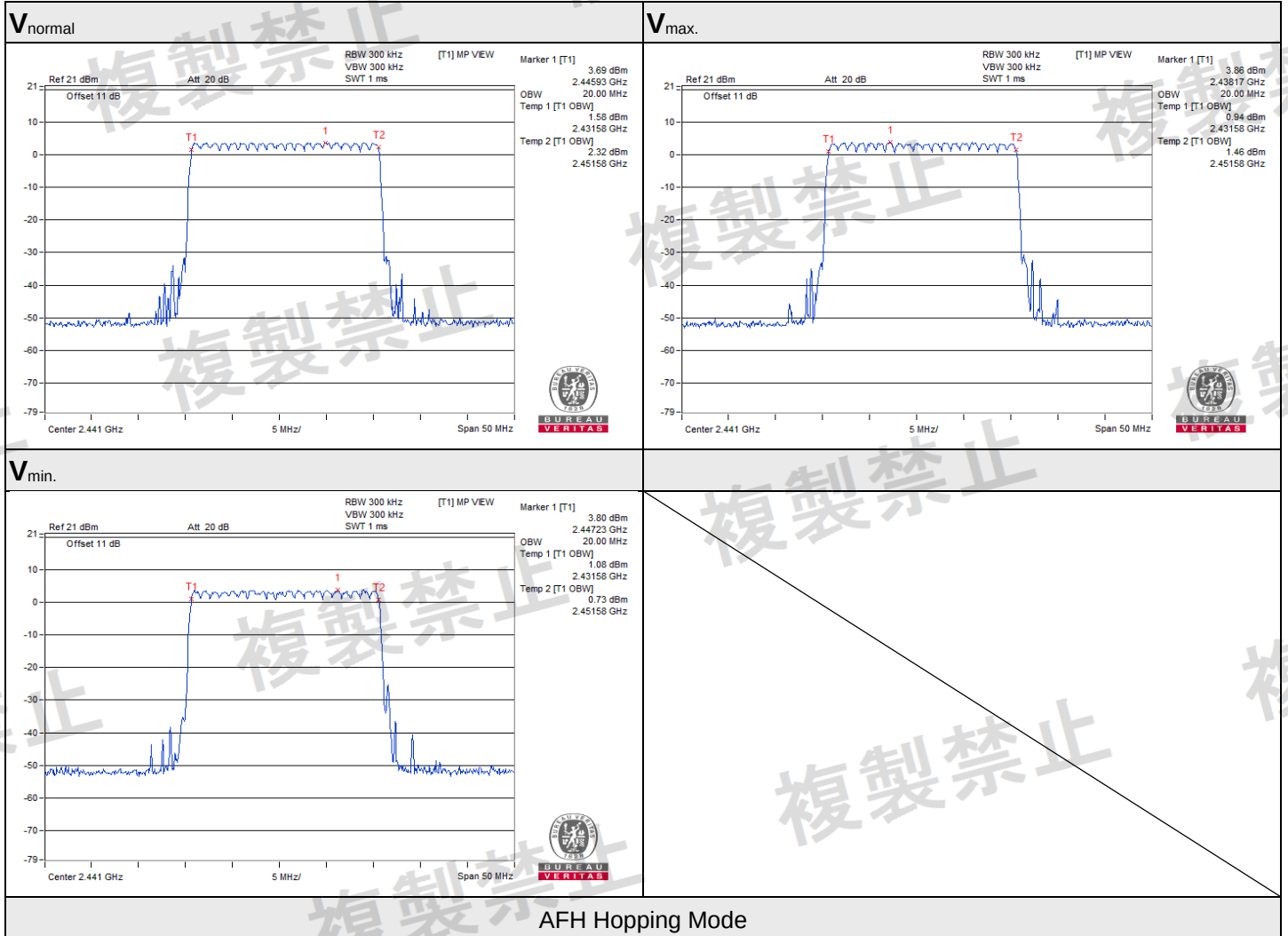
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8DPSK: AFH Mode

V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
20.00	20.00	20.00

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



7.3 Spurious Emissions

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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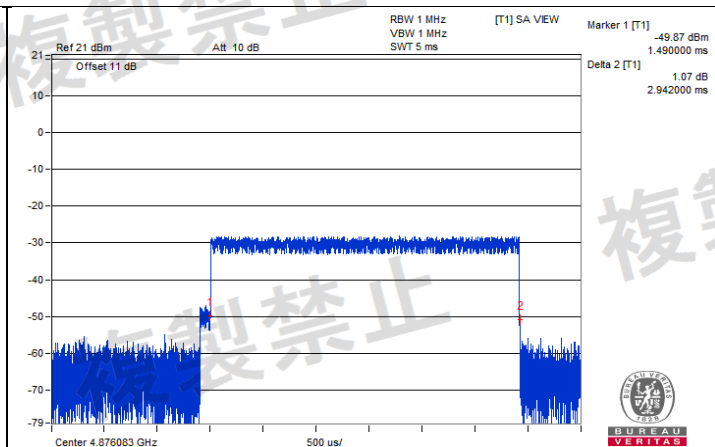
GFSK

TEST CHANNEL		Hopping			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	822.369	0.001626 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2326.492	0.025763 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.667	4.275629 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.594	1.169499 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4923.599	0.624443 uW/MHz	2.5 uW/MHz	PASS(1)
V_{max.}	30MHz to 1000MHz	806.364	0.001866 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2166.294	0.026002 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.327	3.061963 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.923	0.86896 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4876.083	0.920988 uW/MHz	2.5 uW/MHz	PASS(2)
V_{min.}	30MHz to 1000MHz	808.061	0.00177 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1485.103	0.028184 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.584	4.897788 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.051	0.891251 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4859.827	0.831407 uW/MHz	2.5 uW/MHz	PASS(3)

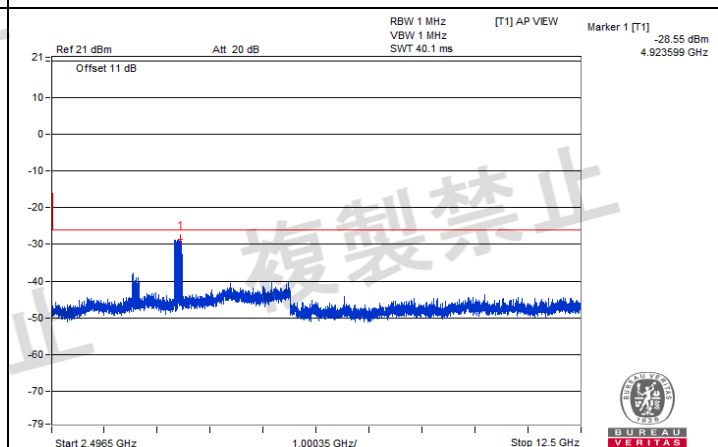
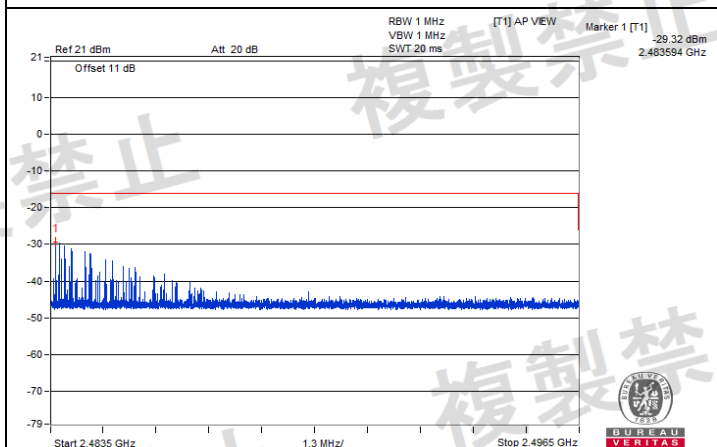
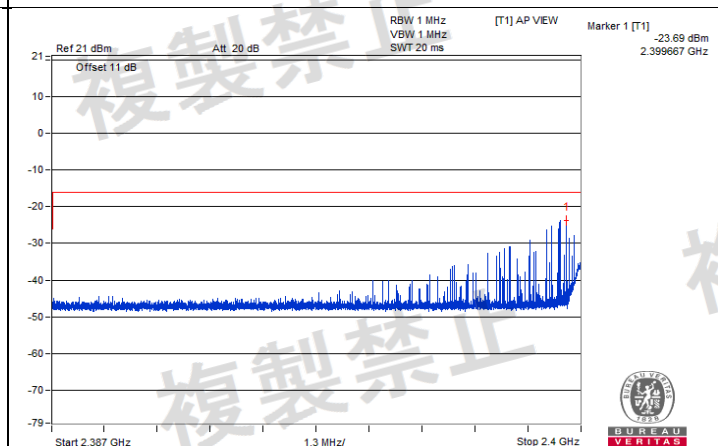
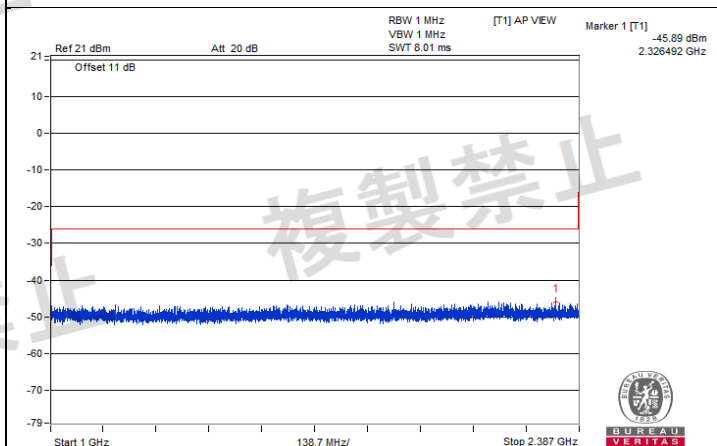
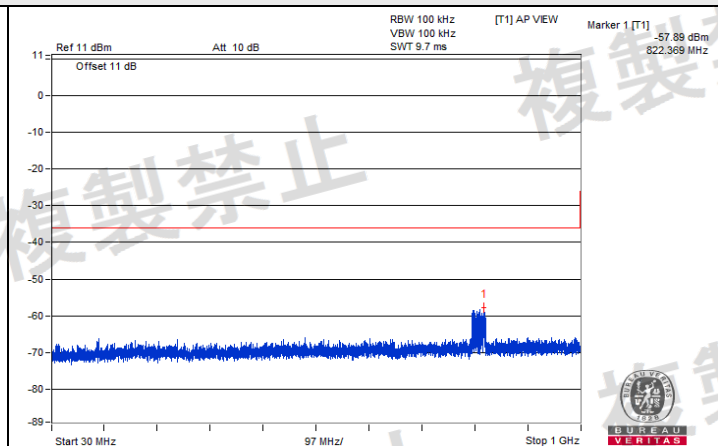
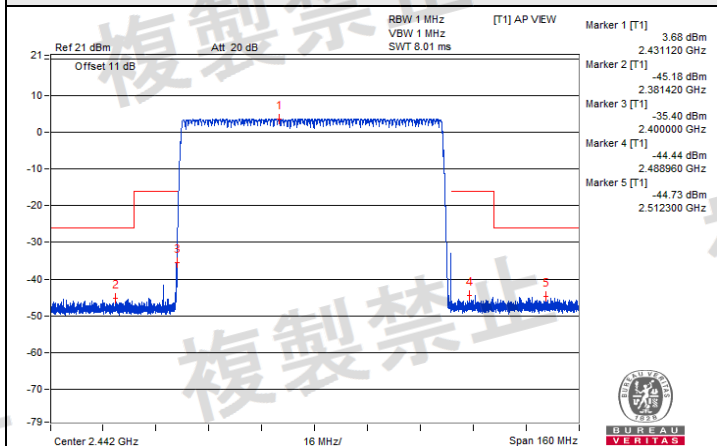
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under 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 (>400) and calculates the mean value.
5. It reports the mean value.

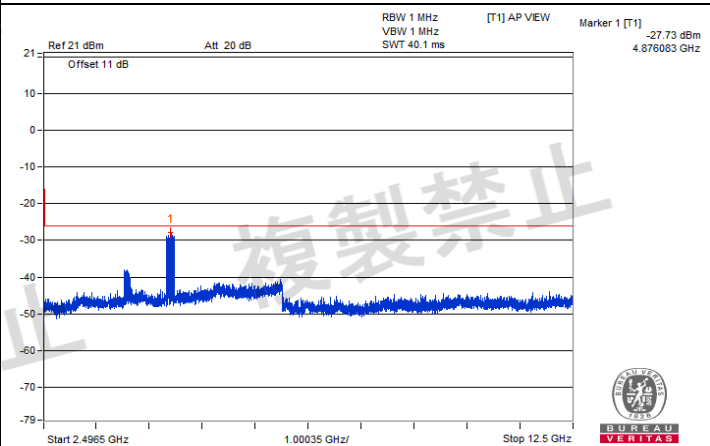
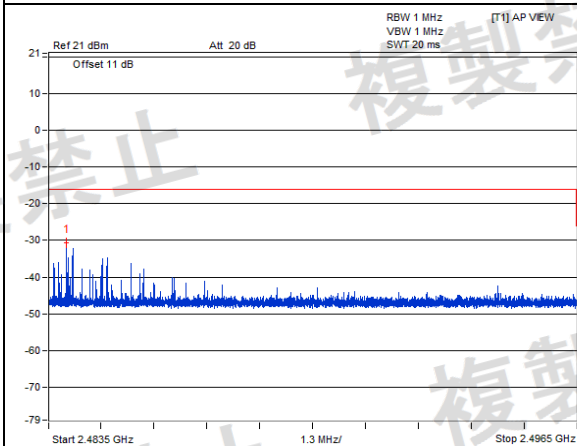
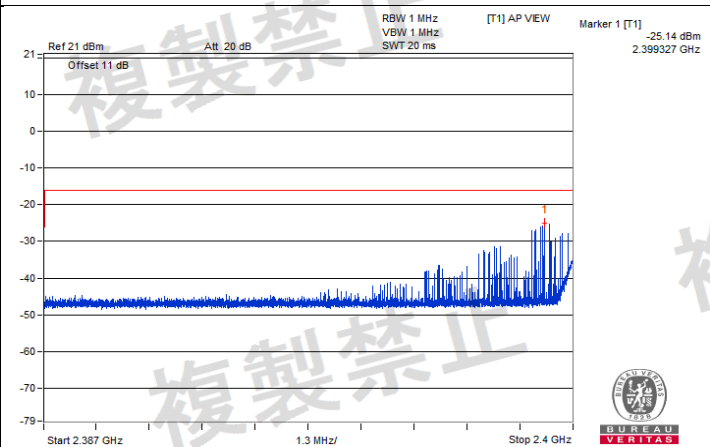
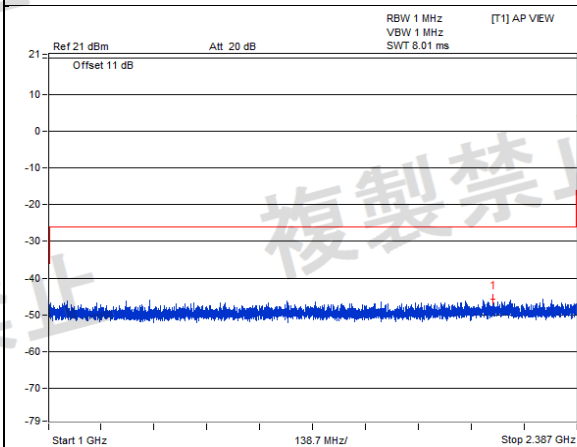
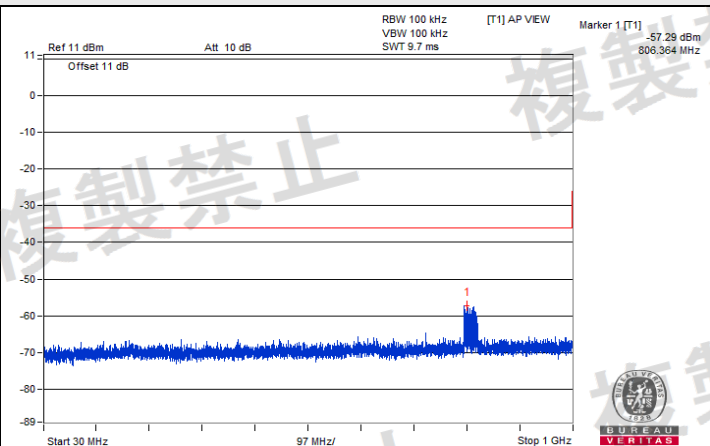
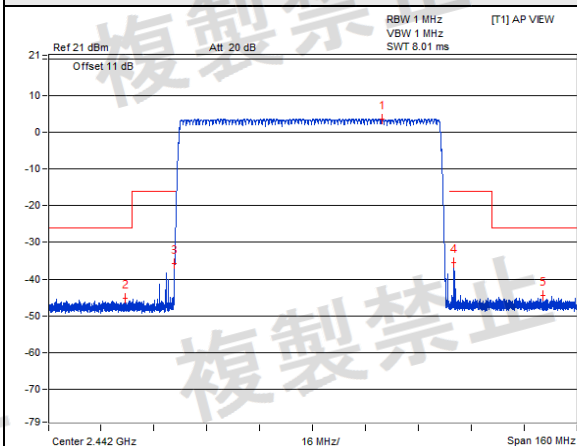


Vnormal



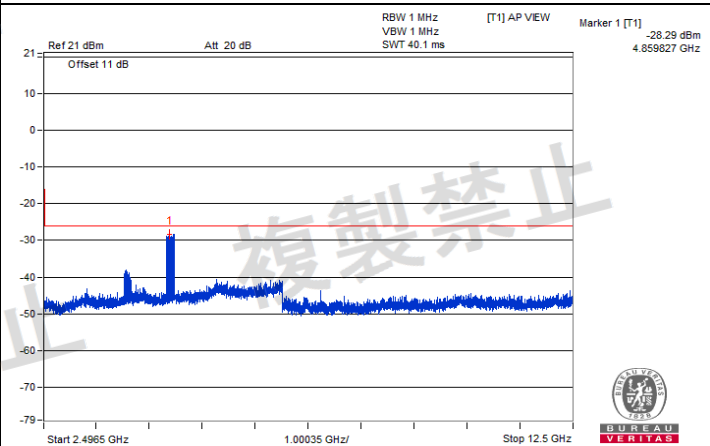
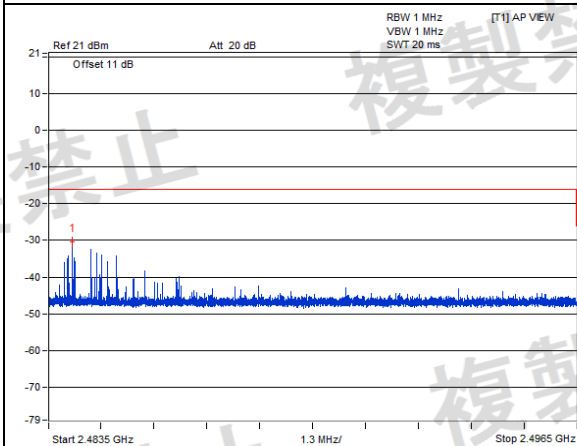
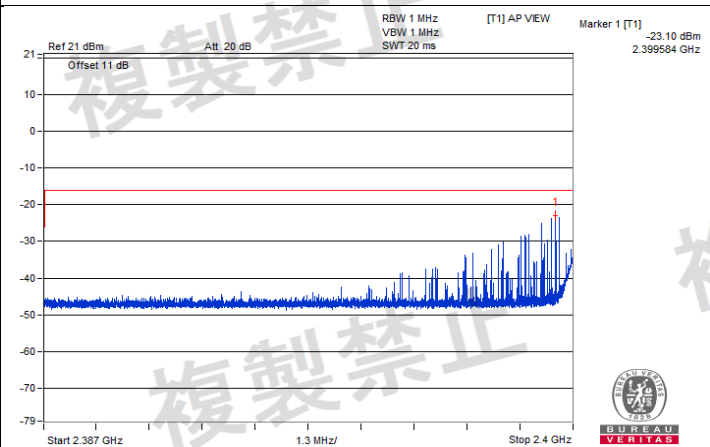
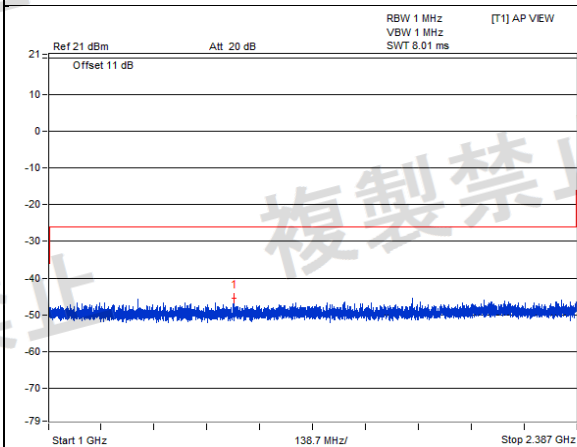
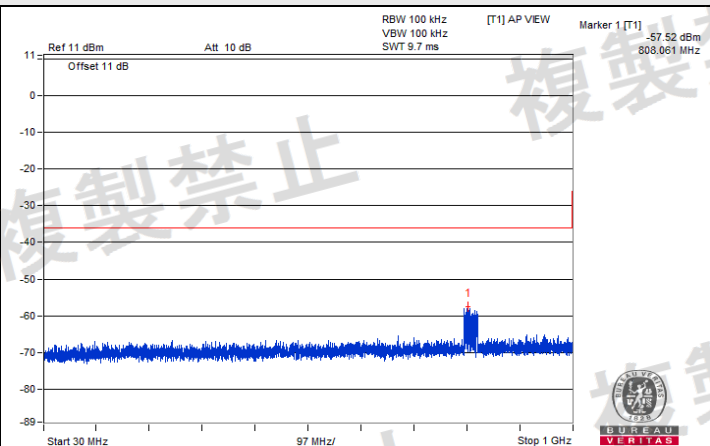
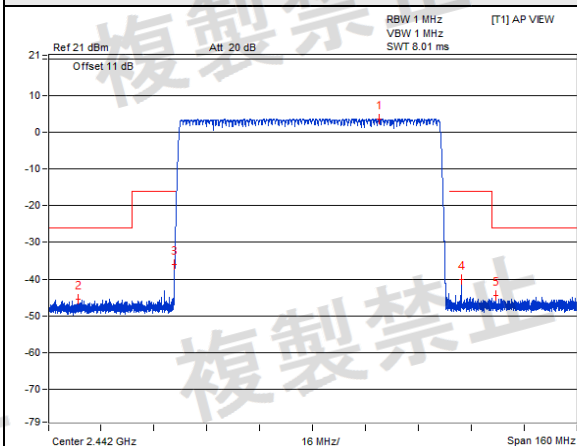
Hopping

Vmax.



Hopping

V_{min}.



Hopping

π/4-DQPSK

TEST CHANNEL		Hopping			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	817.155	0.001016 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2246.566	0.023933 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.948	11.066238 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.083	0.688652 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4877.333	0.412031 uW/MHz	2.5 uW/MHz	PASS(1)
V_{max.}	30MHz to 1000MHz	805.515	0.001033 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2213.105	0.038815 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.604	5.420009 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.204	0.847227 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4927.350	0.394725 uW/MHz	2.5 uW/MHz	PASS(2)
V_{min.}	30MHz to 1000MHz	808.425	0.001069 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1868.609	0.027102 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.948	6.16595 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.625	0.897429 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4854.825	0.104689 uW/MHz	2.5 uW/MHz	PASS(3)

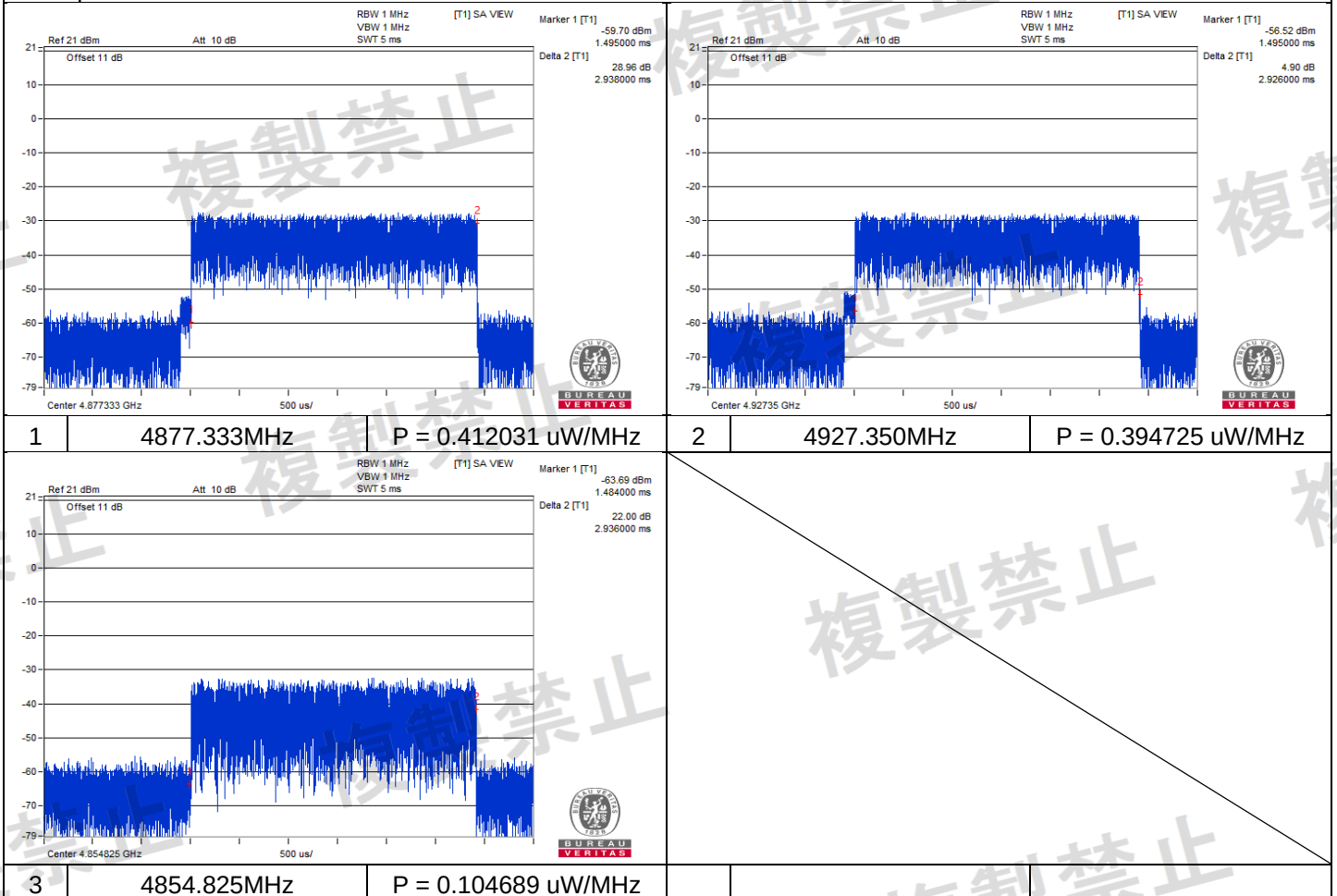
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

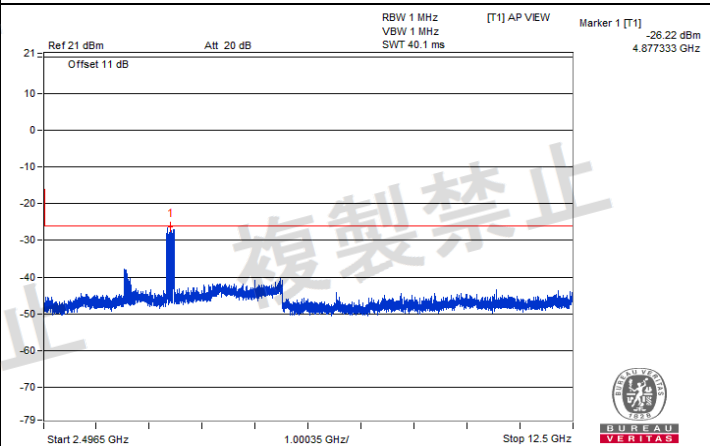
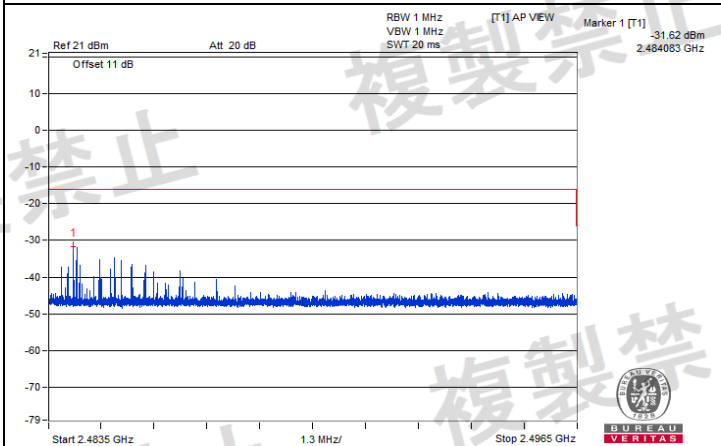
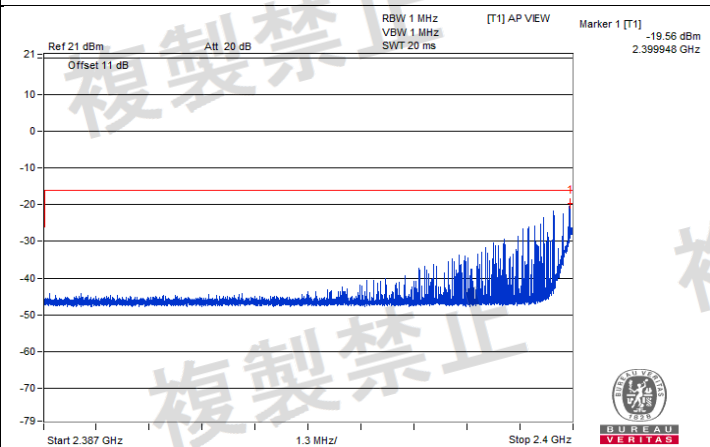
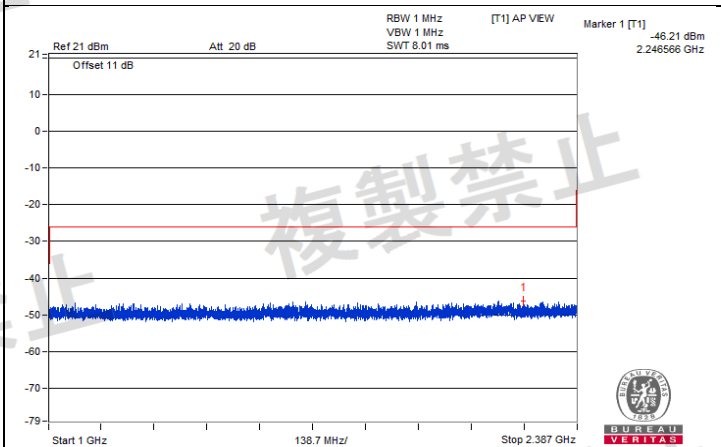
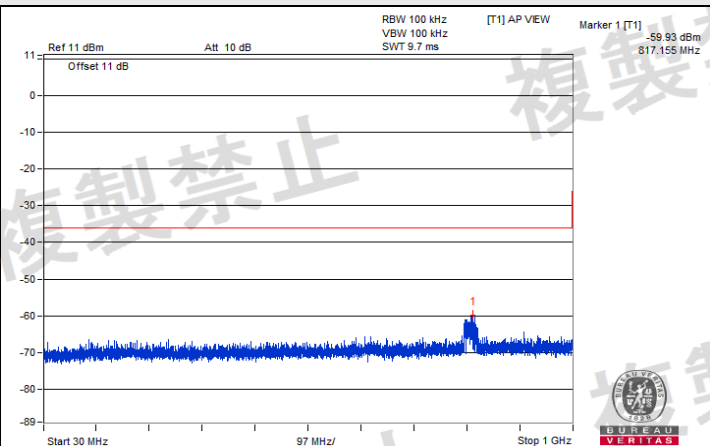
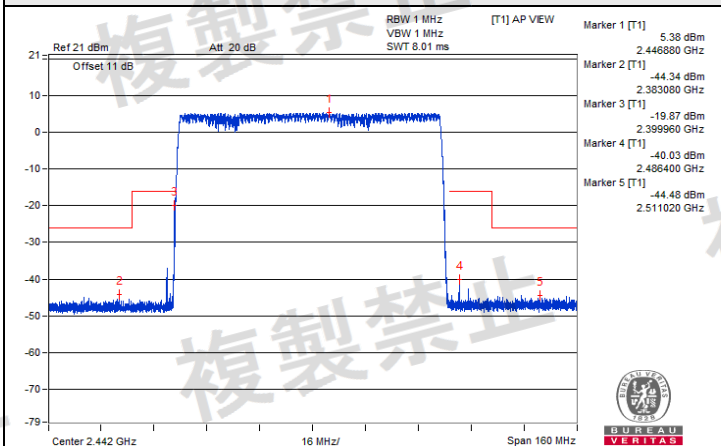


Measuring Mode *Zero Span

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 (>400) and calculates the mean value.
5. It reports the mean value.

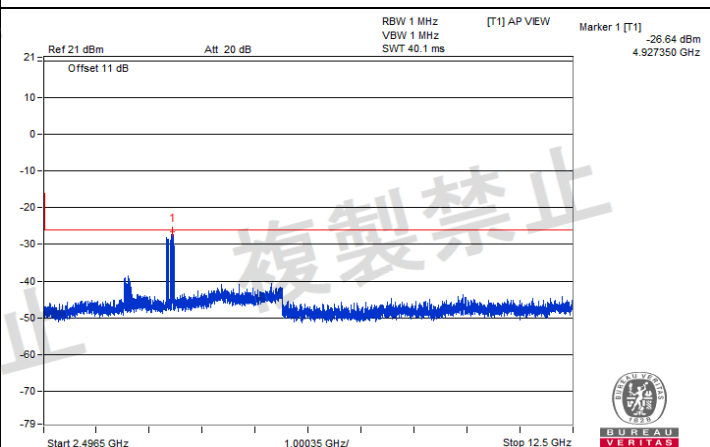
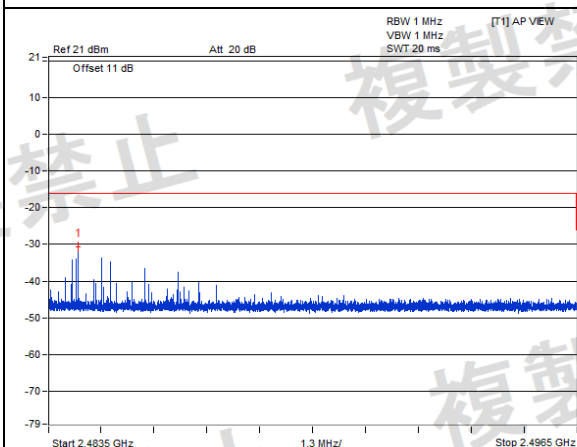
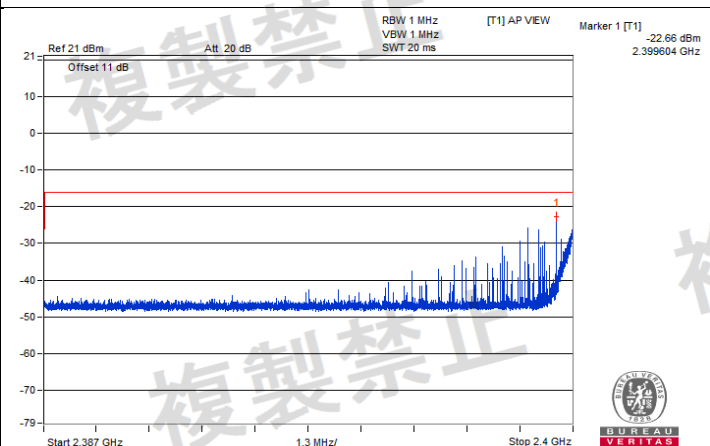
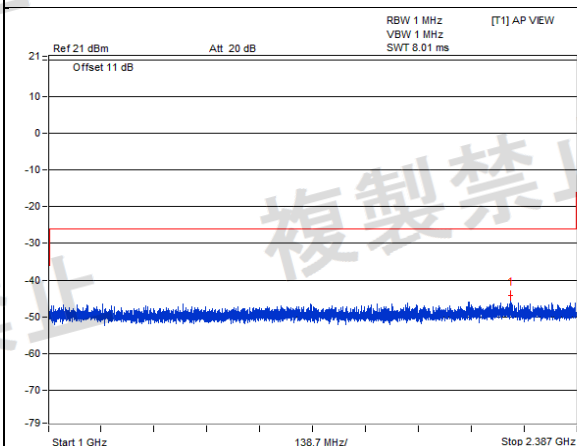
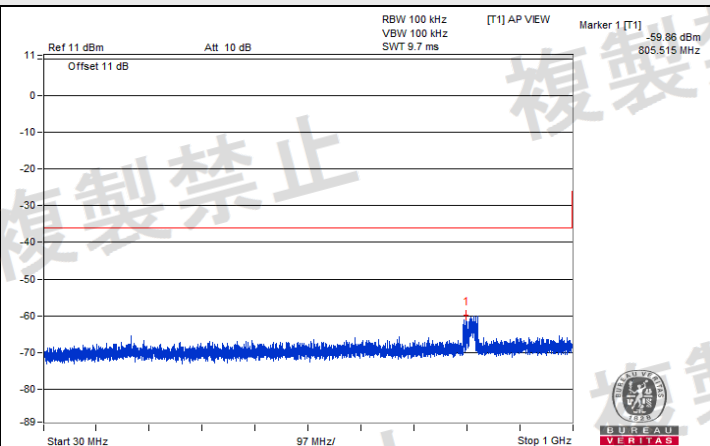
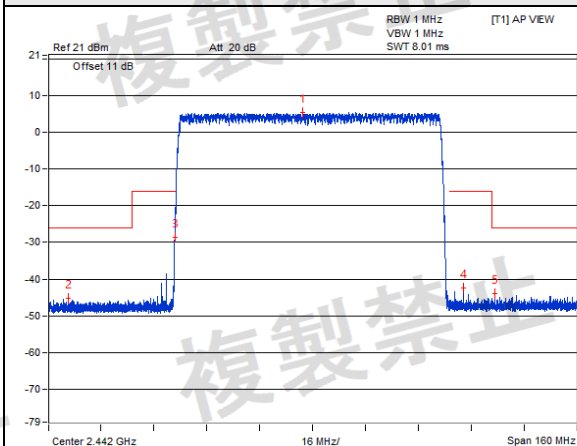


Vnormal



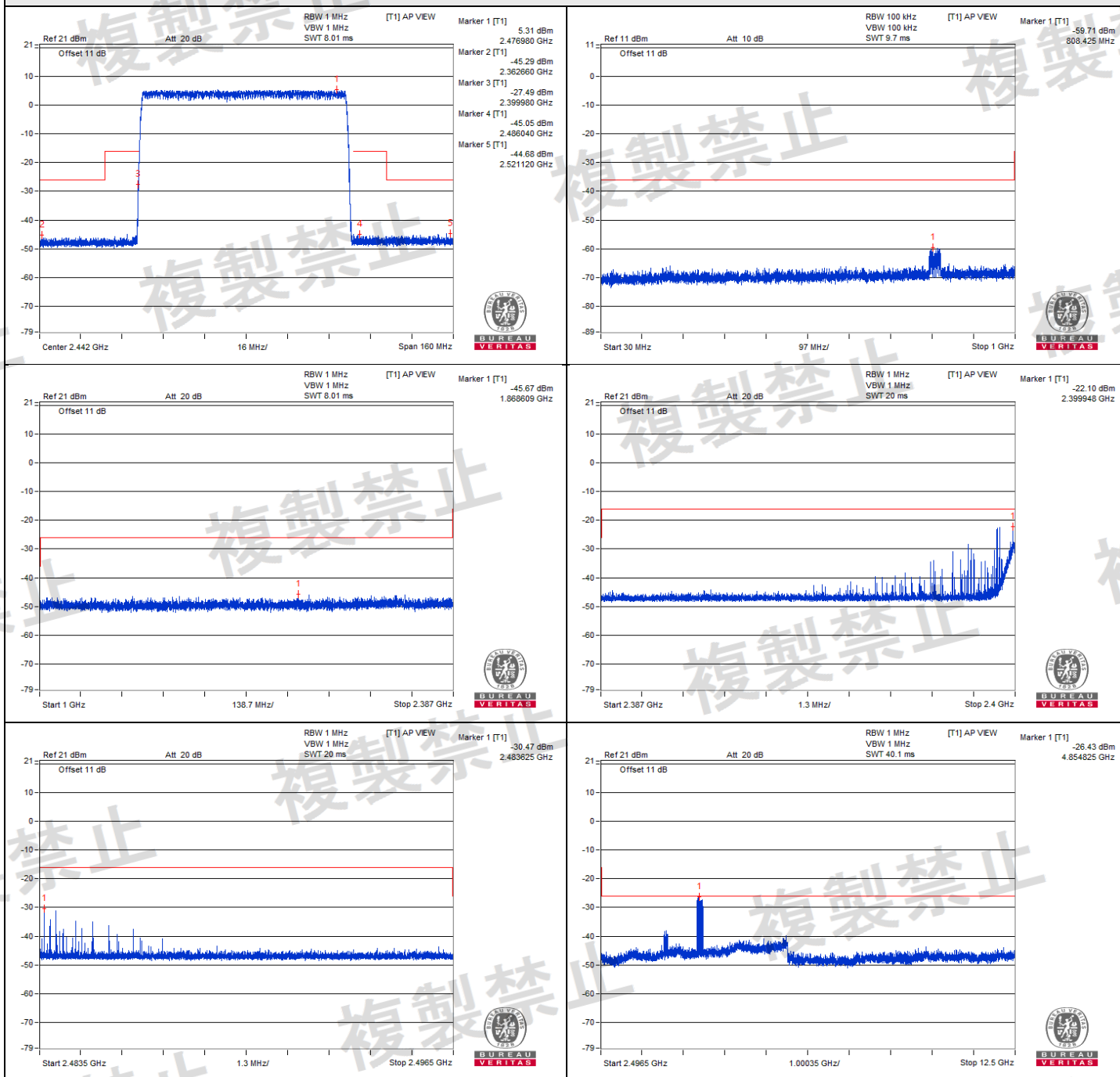
Hopping

Vmax.



Hopping

Vmin.



Hopping

8DPSK

TEST CHANNEL		Hopping			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	810.244	0.001197 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2100.238	0.027733 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.682	7.943282 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.739	1.172195 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4893.589	0.601293 uW/MHz	2.5 uW/MHz	PASS(1)
V_{max.}	30MHz to 1000MHz	810.971	0.001312 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1716.906	0.027542 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.764	8.669619 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.874	0.751623 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4851.074	0.21714 uW/MHz	2.5 uW/MHz	PASS(2)
V_{min.}	30MHz to 1000MHz	801.635	0.001297 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2195.421	0.028445 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.846	8.260379 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.757	1.2218 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	4918.597	0.55151 uW/MHz	2.5 uW/MHz	PASS(3)

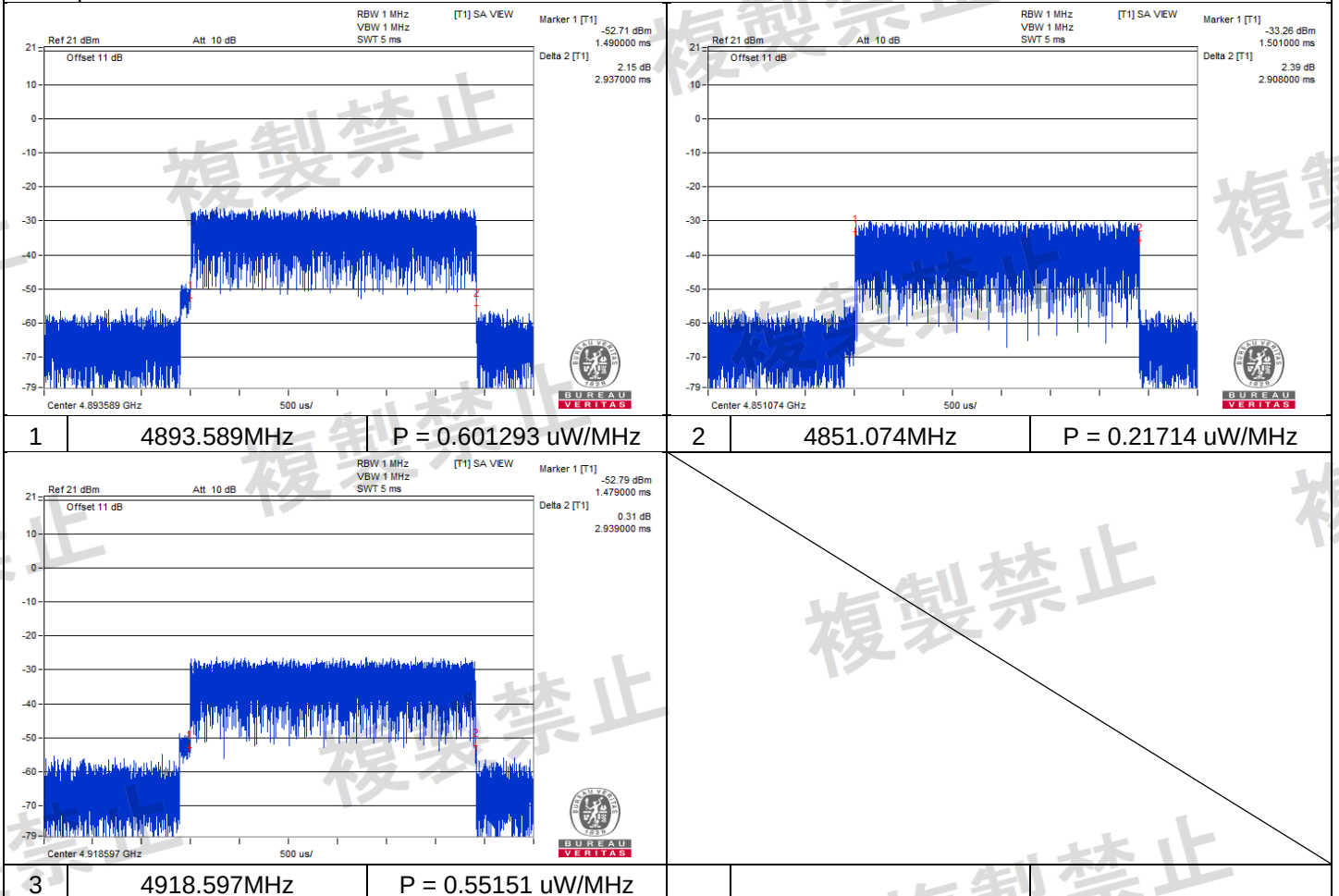
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

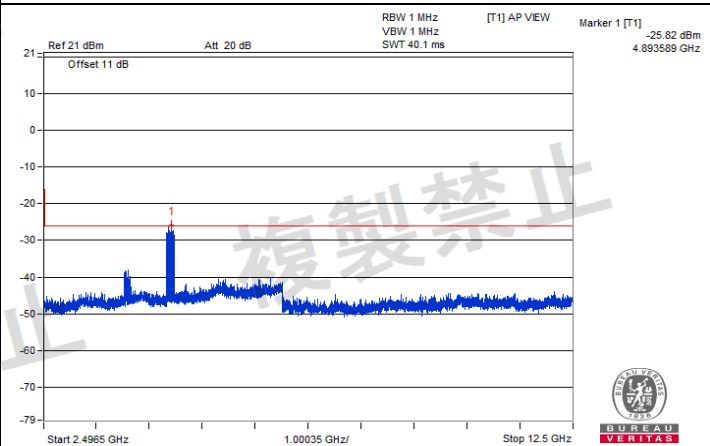
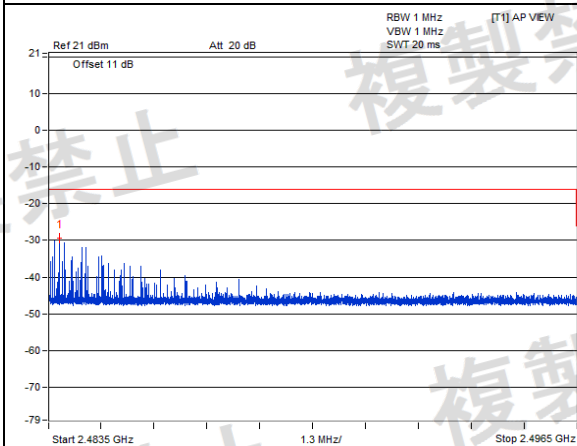
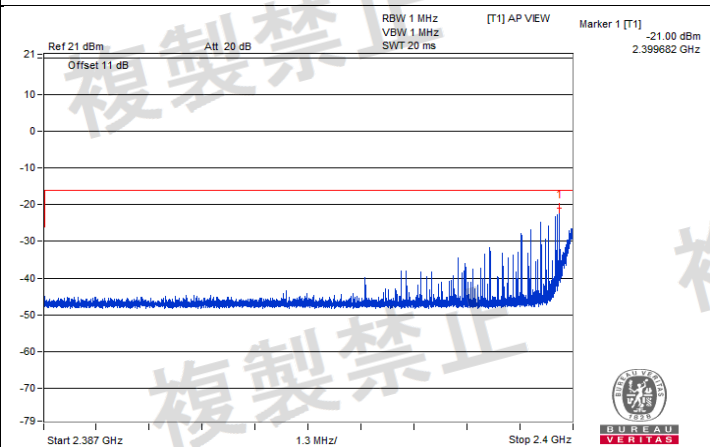
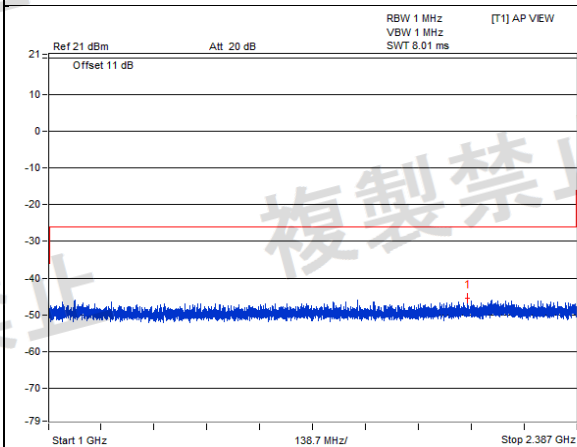
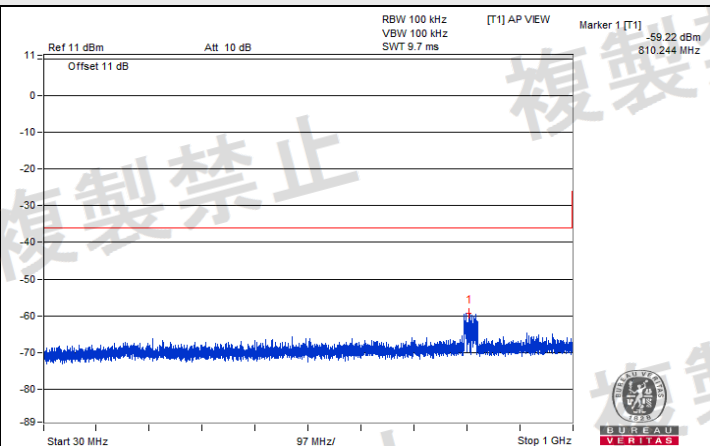
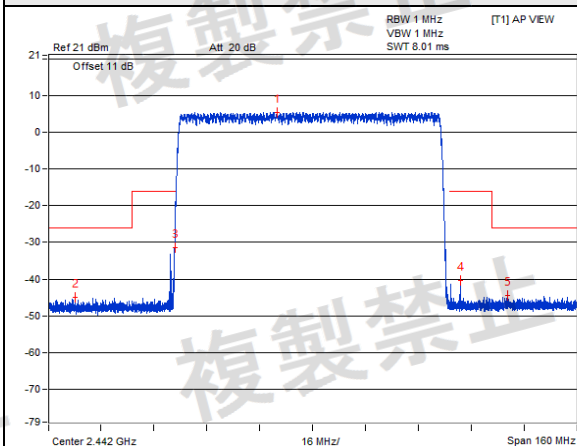


Measuring Mode *Zero Span

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 (>400) and calculates the mean value.
5. It reports the mean value.

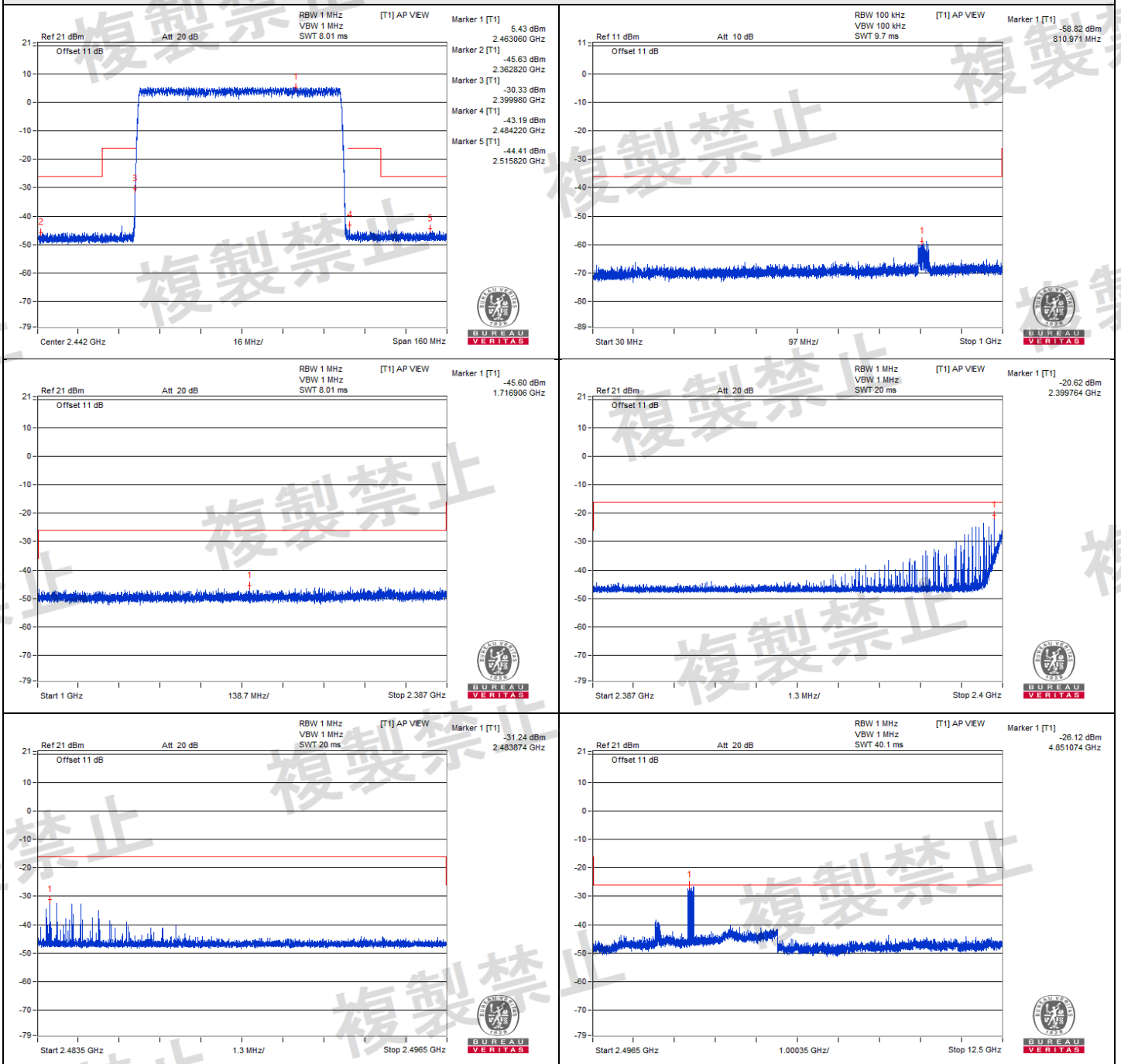


Vnormal



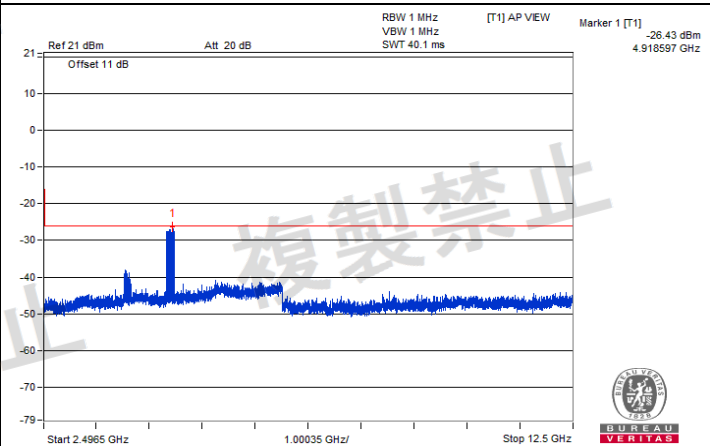
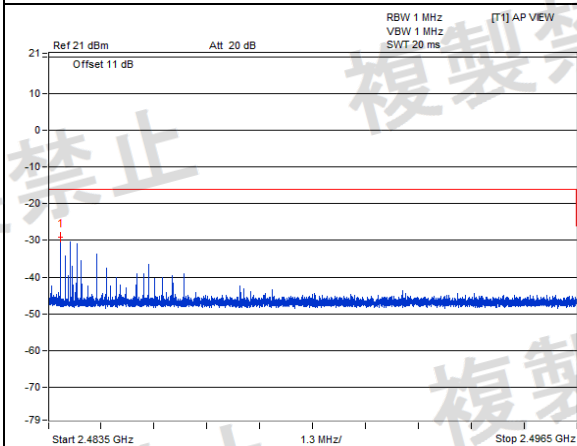
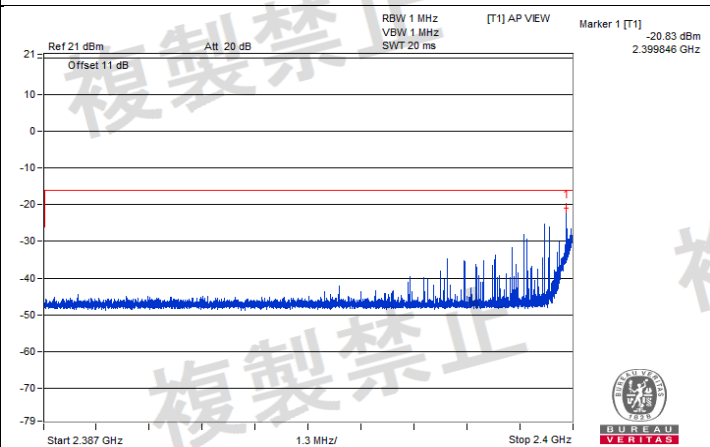
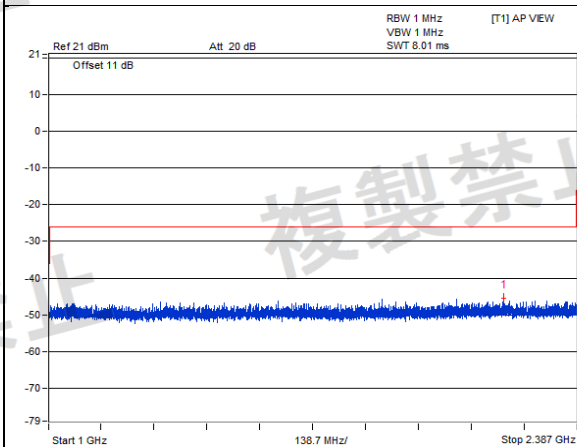
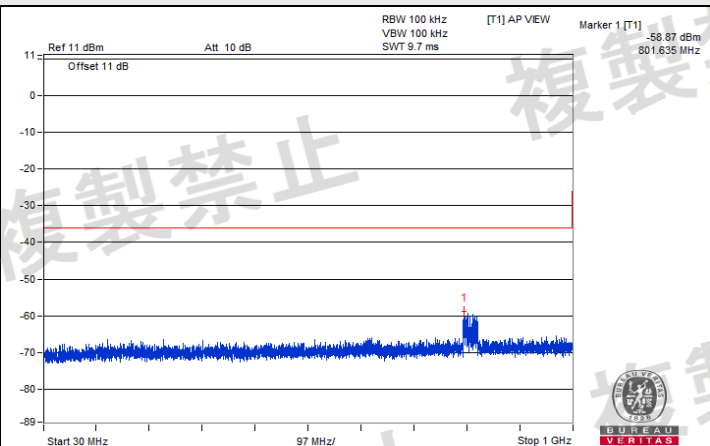
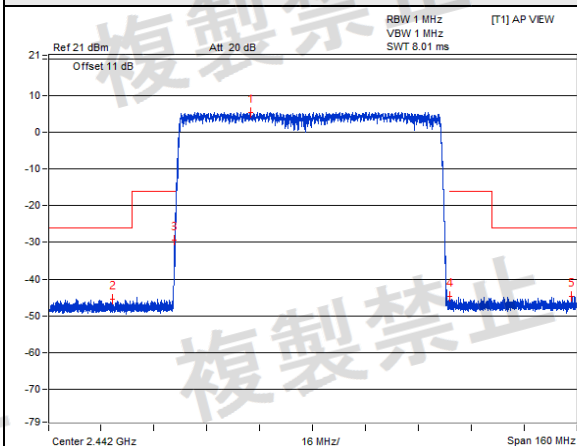
Hopping

Vmax.



Hopping

V_{min}.



Hopping

7.4 Spurious Emissions of Receiver

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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GFSK

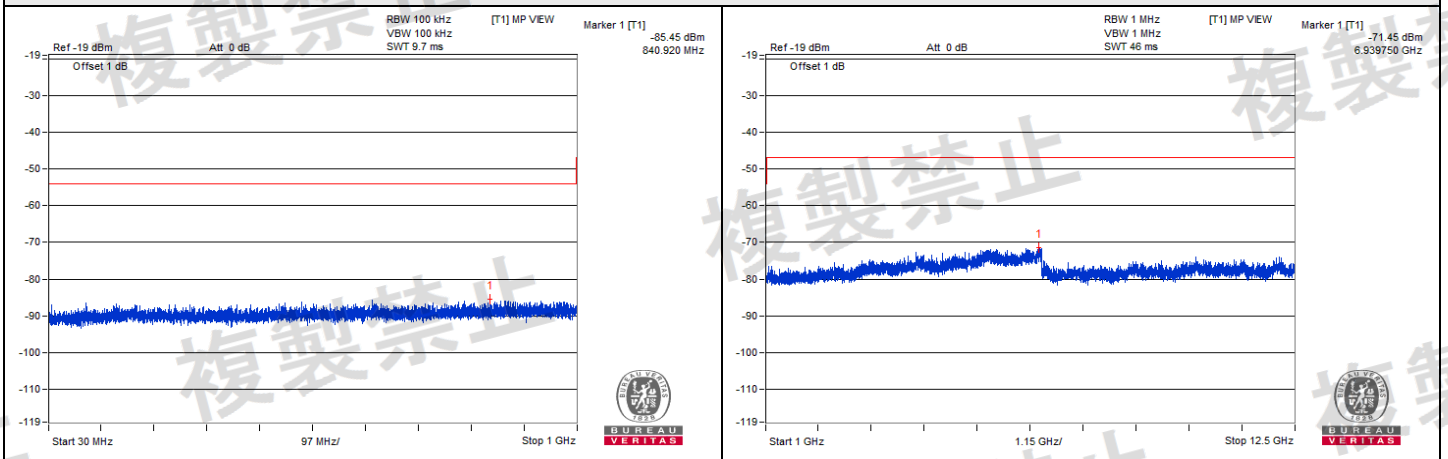
TEST CHANNEL		CH 0 (2402 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	840.920	0.002851	4	PASS
	1000.0 to 12500.0	6939.750	0.071614	20	PASS
V_{max.}	30.0 to 1000.0	943.013	0.003289	4	PASS
	1000.0 to 12500.0	5874.562	0.078524	20	PASS
V_{min.}	30.0 to 1000.0	936.101	0.003141	4	PASS
	1000.0 to 12500.0	6945.500	0.074473	20	PASS
TEST CHANNEL		CH 39 (2441 MHz)			
V_{normal}	30.0 to 1000.0	943.013	0.003027	4	PASS
	1000.0 to 12500.0	5876.000	0.077446	20	PASS
V_{max.}	30.0 to 1000.0	972.719	0.002992	4	PASS
	1000.0 to 12500.0	6854.937	0.076384	20	PASS
V_{min.}	30.0 to 1000.0	967.990	0.002851	4	PASS
	1000.0 to 12500.0	6962.750	0.075683	20	PASS
TEST CHANNEL		CH 78 (2480 MHz)			
V_{normal}	30.0 to 1000.0	753.378	0.003639	4	PASS
	1000.0 to 12500.0	6936.875	0.077983	20	PASS
V_{max.}	30.0 to 1000.0	873.779	0.003304	4	PASS
	1000.0 to 12500.0	5748.062	0.08414	20	PASS
V_{min.}	30.0 to 1000.0	978.296	0.003076	4	PASS
	1000.0 to 12500.0	6997.250	0.091833	20	PASS

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

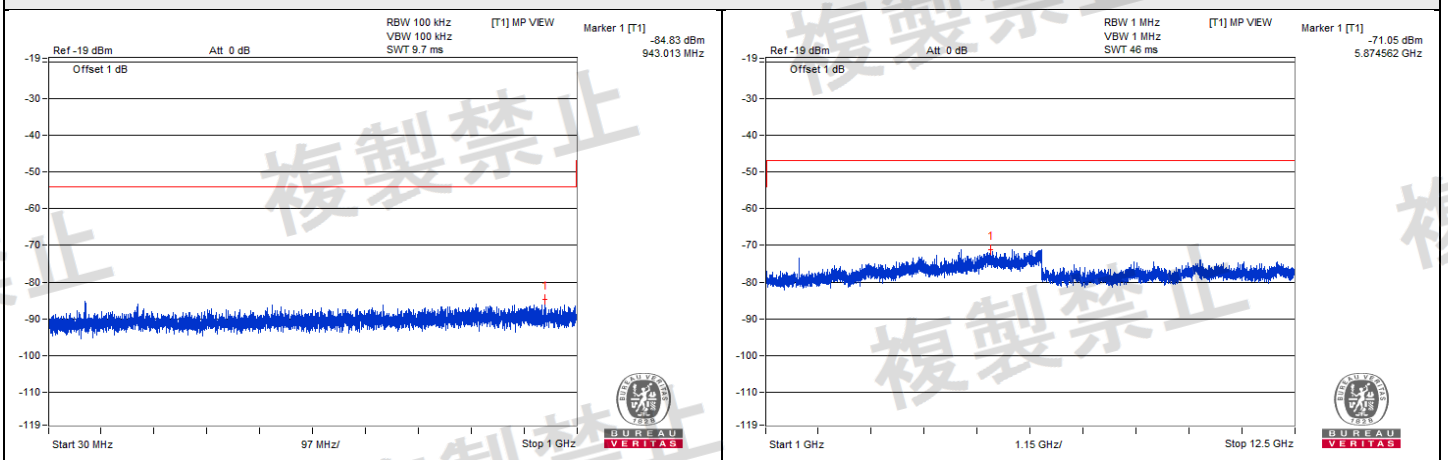


BUREAU
VERITAS

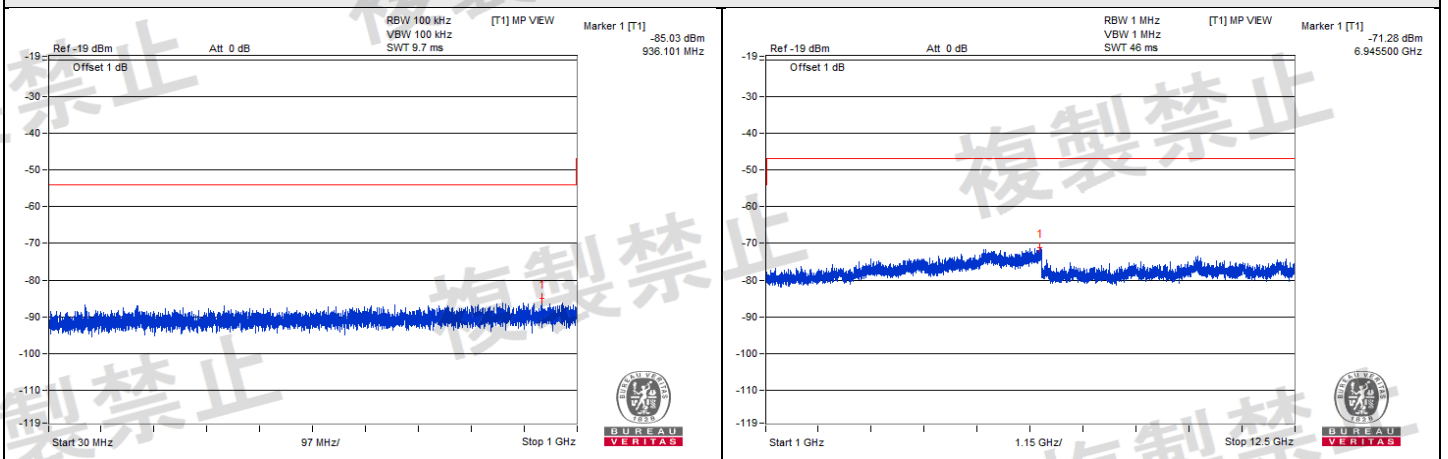
V_{normal}



V_{max}

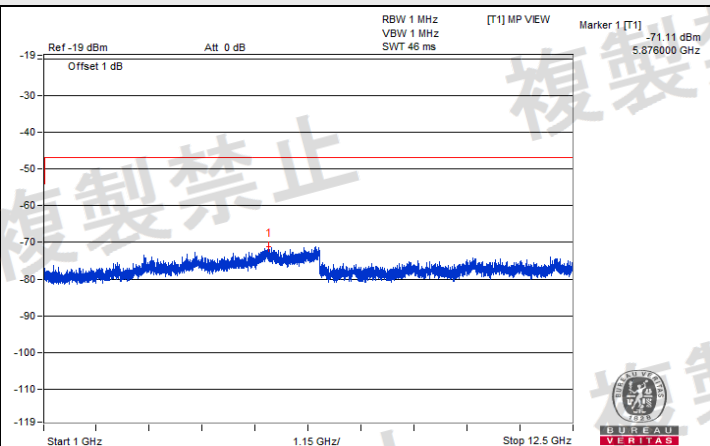
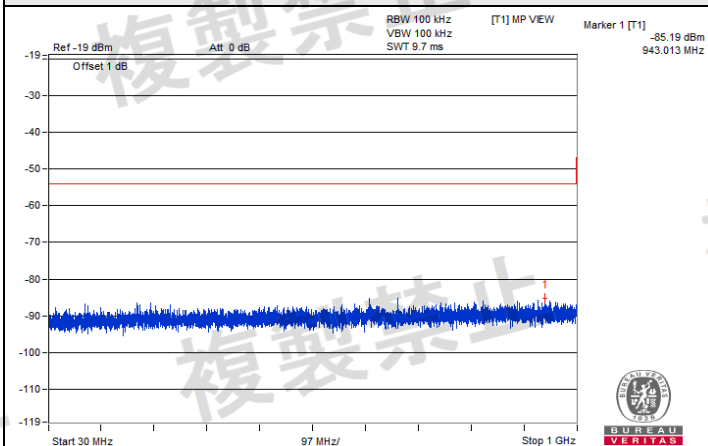


V_{min}

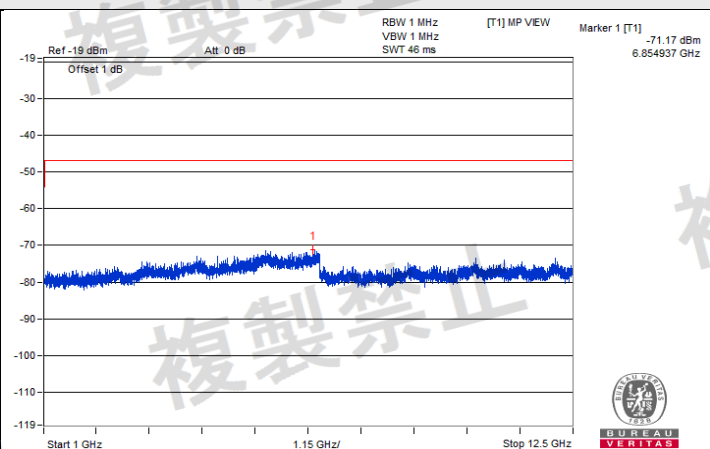
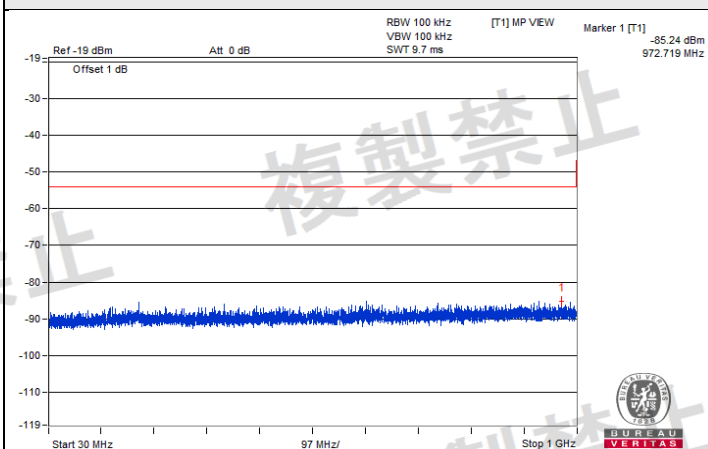


CH 0 (2402 MHz)

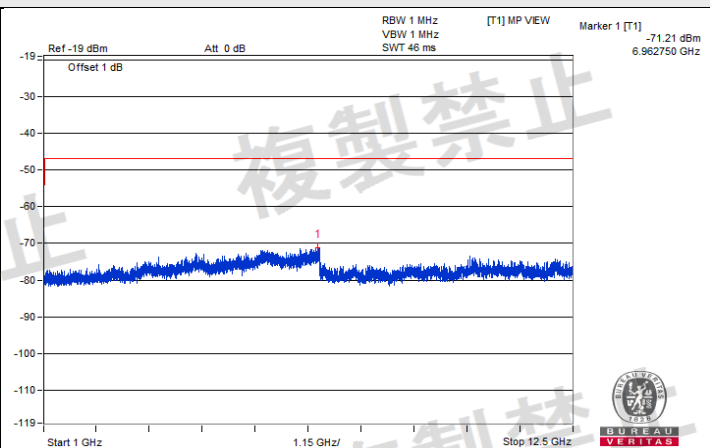
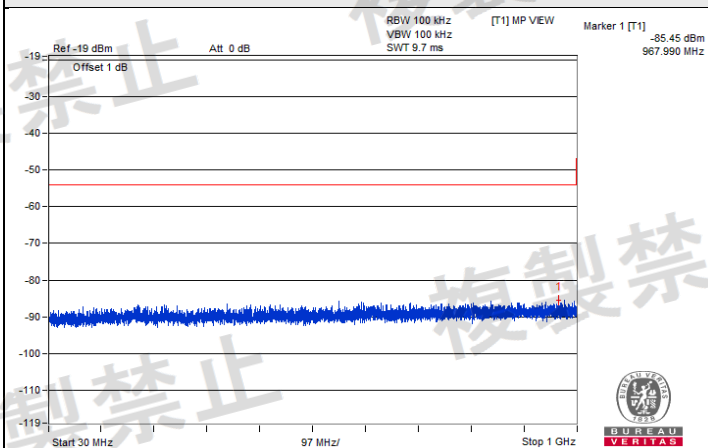
V_{normal}



V_{max}

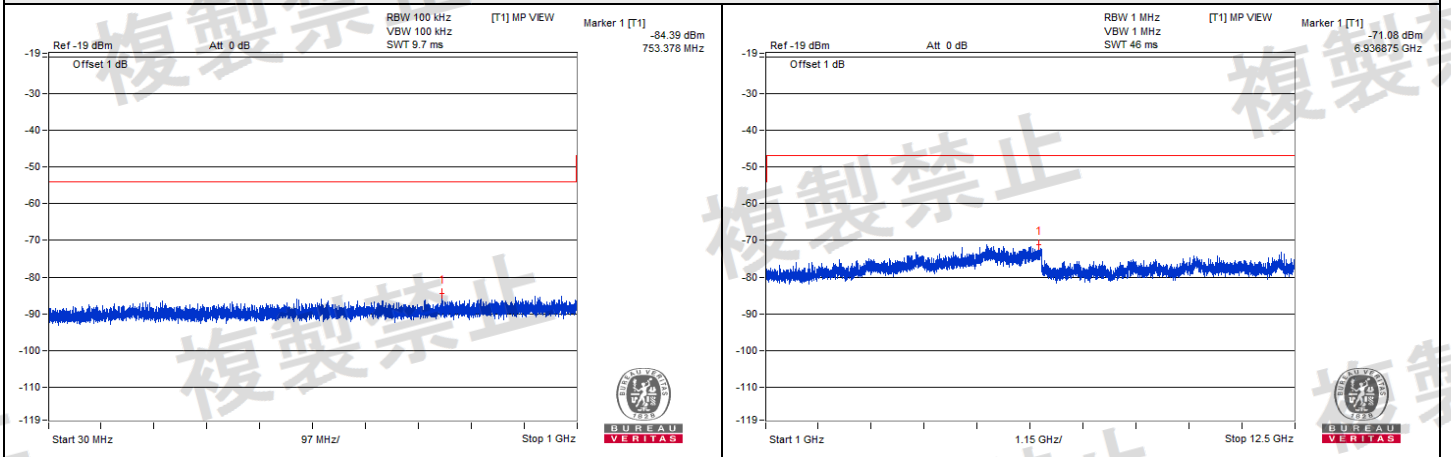


V_{min}

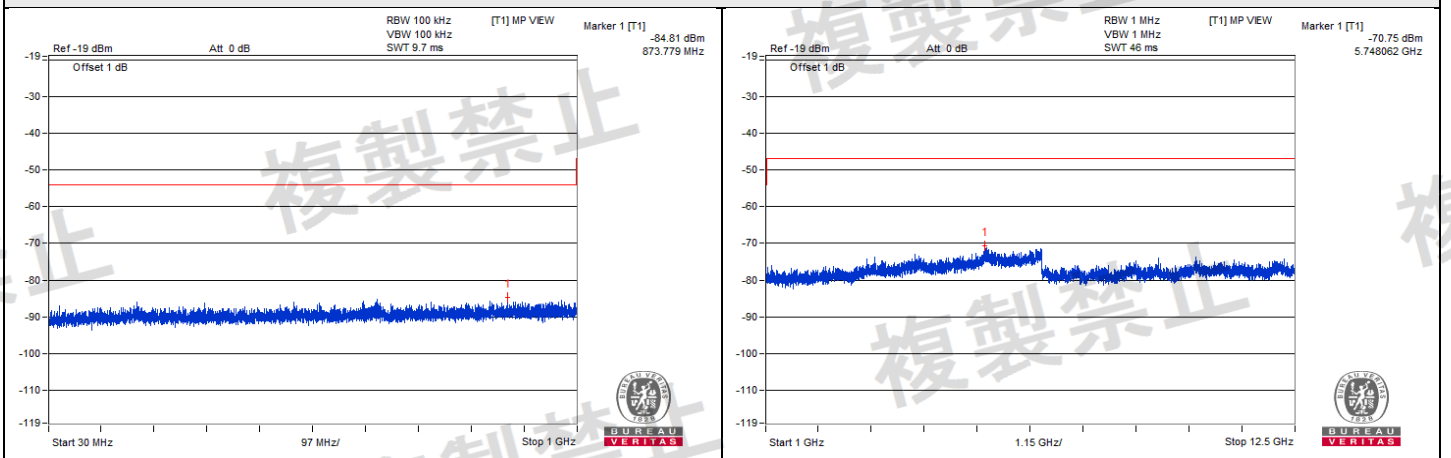


CH 39 (2441 MHz)

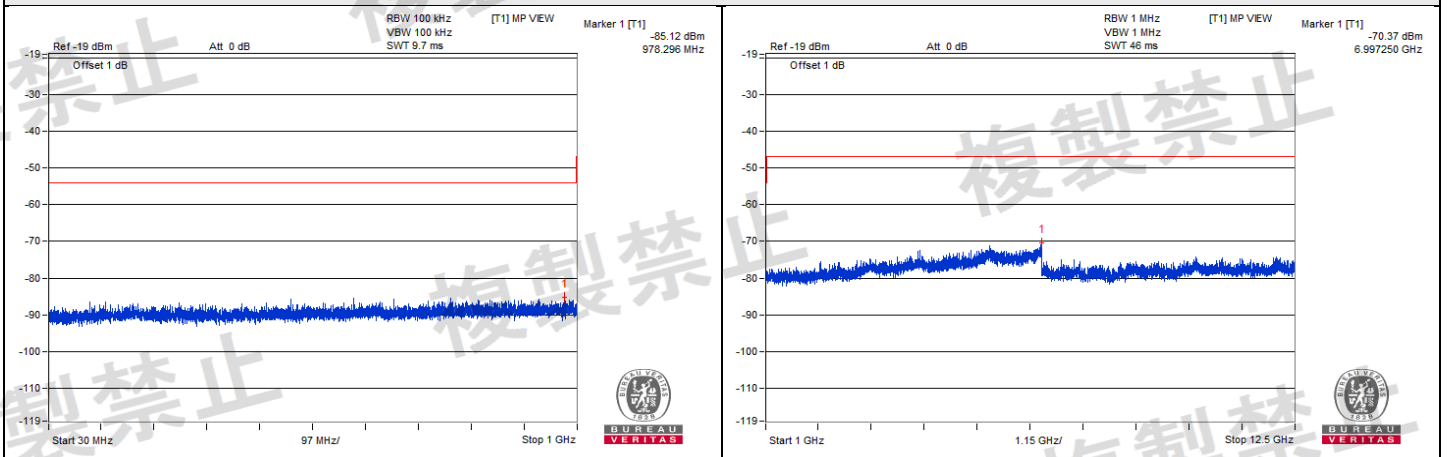
V_{normal}



V_{max}



V_{min}



CH 78 (2480 MHz)

7.5 Antenna Power

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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For Normal Mode

Voltage (Vdc)	Modulation	Data Rate	Conducted RF Output Power Density (mW/MHz)	Radiated RF Output Power Density (mW/MHz)
5	GFSK	DH5	0.026901	0.025396
	$\pi/4$ -DQPSK	2DH5	0.024621	0.023244
	8DPSK	3DH5	0.026395	0.024918
5.5	GFSK	DH5	0.026810	0.025310
	$\pi/4$ -DQPSK	2DH5	0.023501	0.022186
	8DPSK	3DH5	0.026007	0.024552
4.5	GFSK	DH5	0.027766	0.026213
	$\pi/4$ -DQPSK	2DH5	0.024227	0.022872
	8DPSK	3DH5	0.025960	0.024508
Maximum Limit (mW/MHz):			3	-
Rated Power (mW/MHz):			0.03	-
Maximum Tolerance of Antenna Power (mW/MHz):			0.036	-
Maximum EIRP Limit (mW/MHz):			-	4.91

Notes:

1. Antenna gain is -0.25 dBi.
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

For AFH Mode

Voltage (Vdc)	Modulation	Data Rate	Conducted RF Output Power Density (mW/MHz)	Radiated RF Output Power Density (mW/MHz)
5	GFSK	DH5	0.105643	0.099733
	$\pi/4$ -DQPSK	2DH5	0.096272	0.090887
	8DPSK	3DH5	0.102920	0.097163
5.5	GFSK	DH5	0.105643	0.099733
	$\pi/4$ -DQPSK	2DH5	0.092505	0.087330
	8DPSK	3DH5	0.102764	0.097015
4.5	GFSK	DH5	0.109527	0.103400
	$\pi/4$ -DQPSK	2DH5	0.095097	0.089777
	8DPSK	3DH5	0.101508	0.095830
Maximum Limit (mW/MHz):			3	-
Rated Power (mW/MHz):			0.11	-
Tolerance of Antenna Power (mW/MHz):			0.132	-
Maximum EIRP Limit (mW/MHz):			-	4.91

Notes:

1. Antenna gain is -0.25 dBi.
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

7.6 Dwell Time

Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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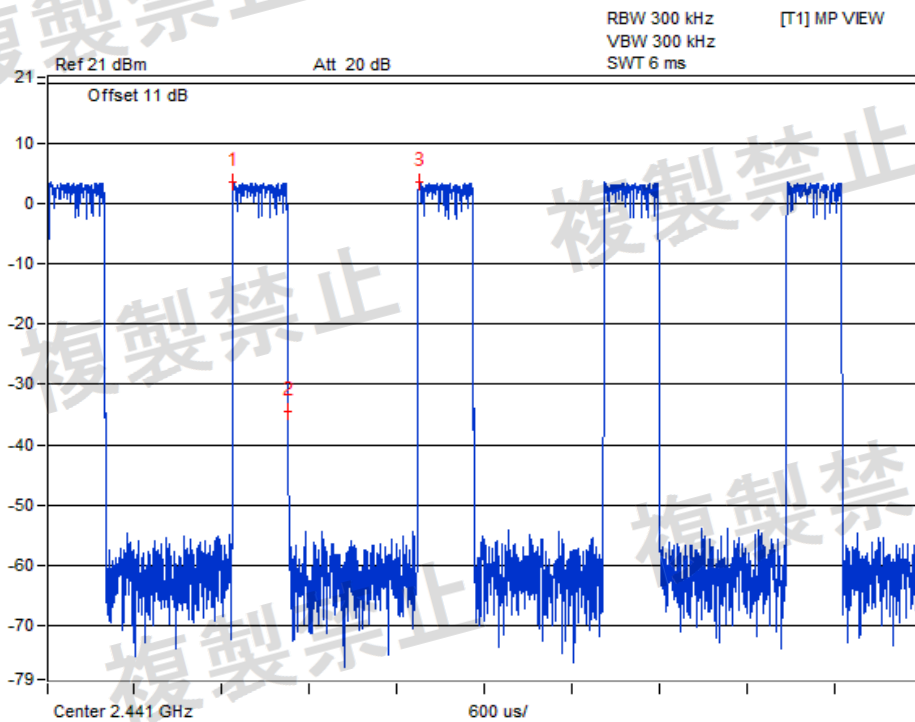
GFSK: Normal Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/79)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	DH1	71.16	0.360	0.295	106.200	400	PASS
	DH3	71.16	0.360	0.647	232.920	400	PASS
	DH5	71.16	0.360	0.763	274.680	400	PASS
V _{max.}	DH1	71.40	0.362	0.310	112.220	400	PASS
	DH3	71.40	0.362	0.650	235.300	400	PASS
	DH5	71.40	0.362	0.766	277.292	400	PASS
V _{min.}	DH1	71.20	0.361	0.300	108.300	400	PASS
	DH3	71.20	0.361	0.643	232.123	400	PASS
	DH5	71.20	0.361	0.765	276.165	400	PASS



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V_{normal}



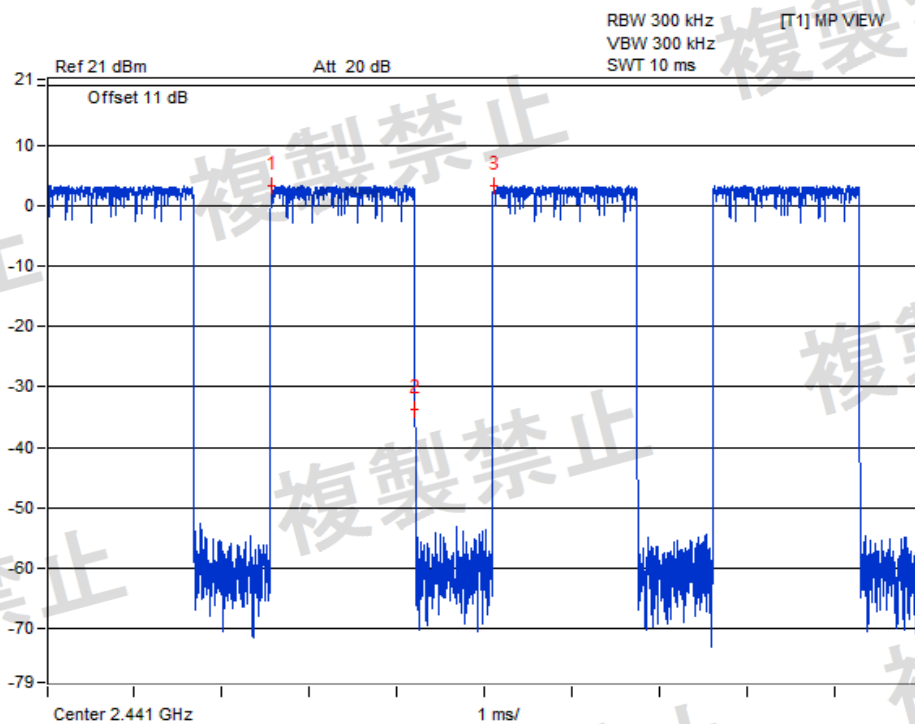
Marker 1 [T1] 3.53 dBm
1.267000 ms

Delta 2 [T1] 37.96 dB
377.000000 us

Delta 3 [T1] 0.01 dB
1.280000 ms



DH1



Marker 1 [T1] 3.41 dBm
2.545000 ms

Delta 2 [T1] 37.23 dB
1.652000 ms

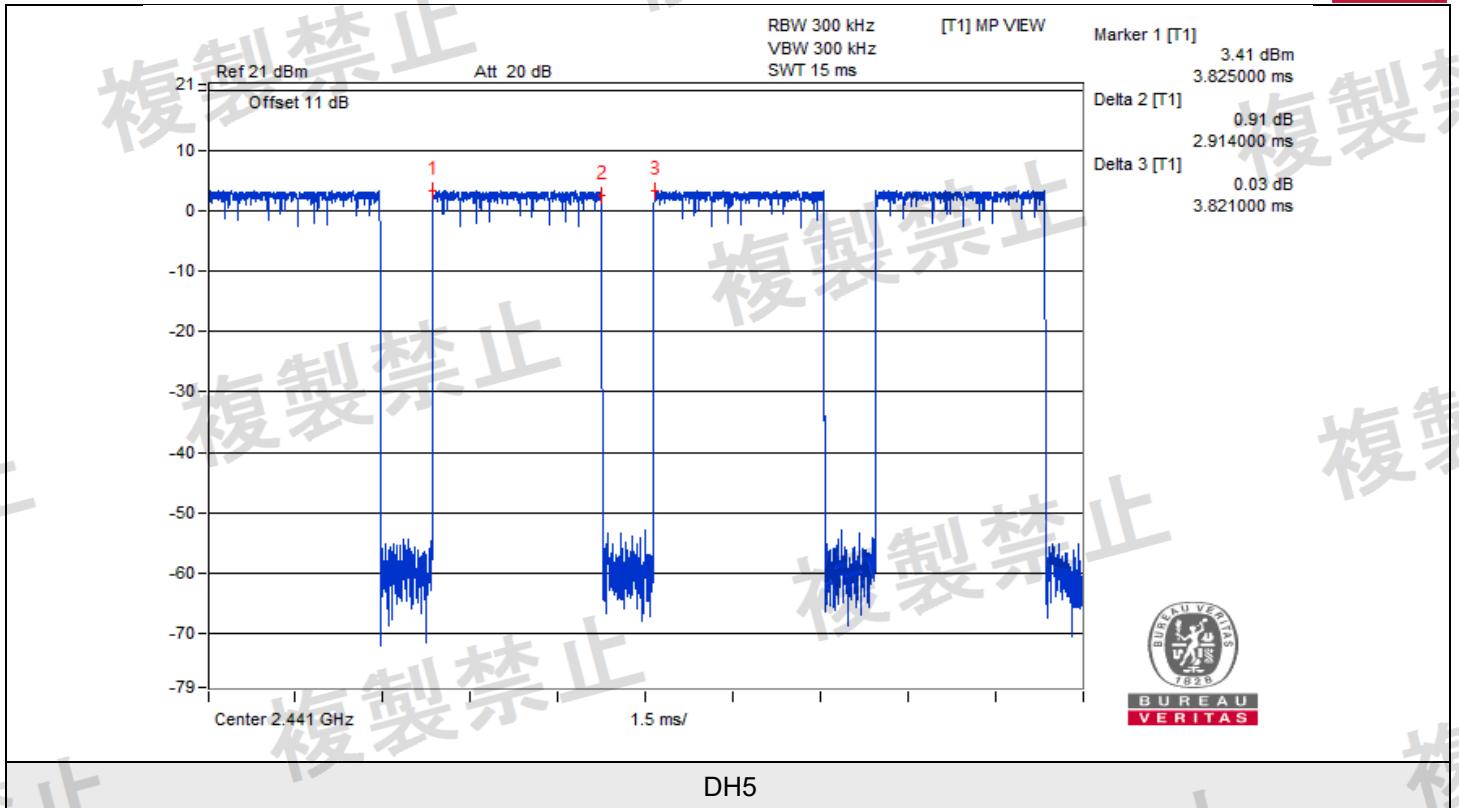
Delta 3 [T1] 0.04 dB
2.552000 ms



DH3



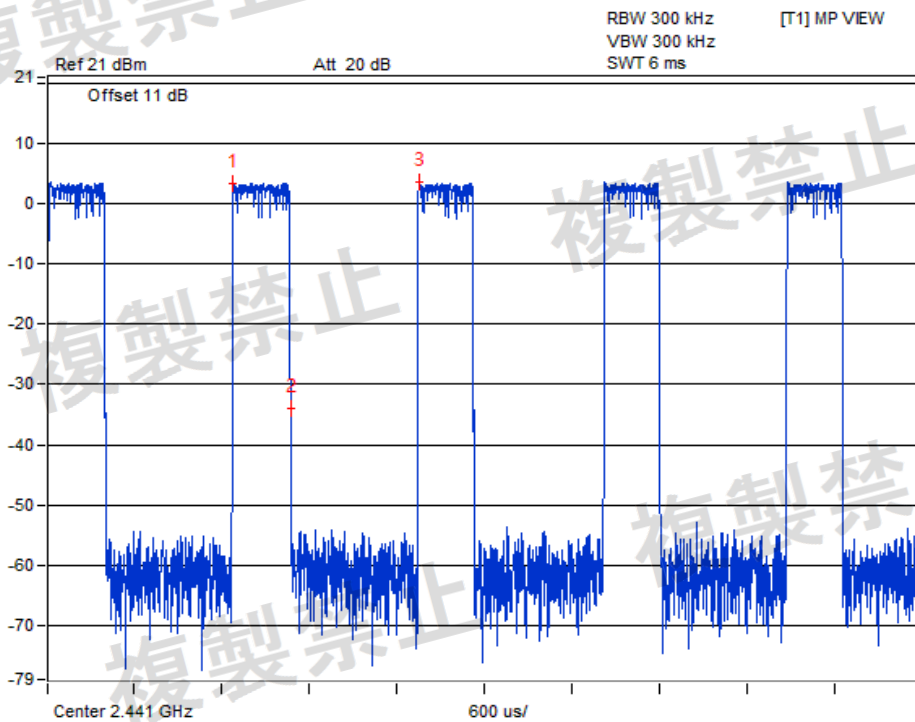
BUREAU
VERITAS





BUREAU
VERITAS

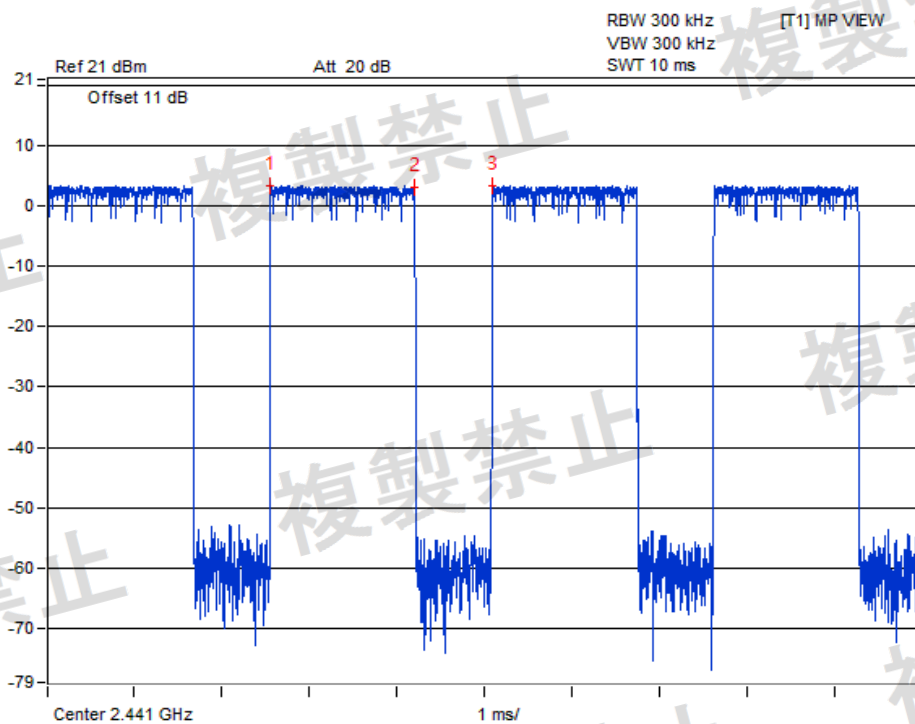
V_{max}.



Marker 1 [T1] 3.48 dBm
1.266000 ms
Delta 2 [T1] 37.48 dB
397.000000 us
Delta 3 [T1] 0.04 dB
1.280000 ms



DH1



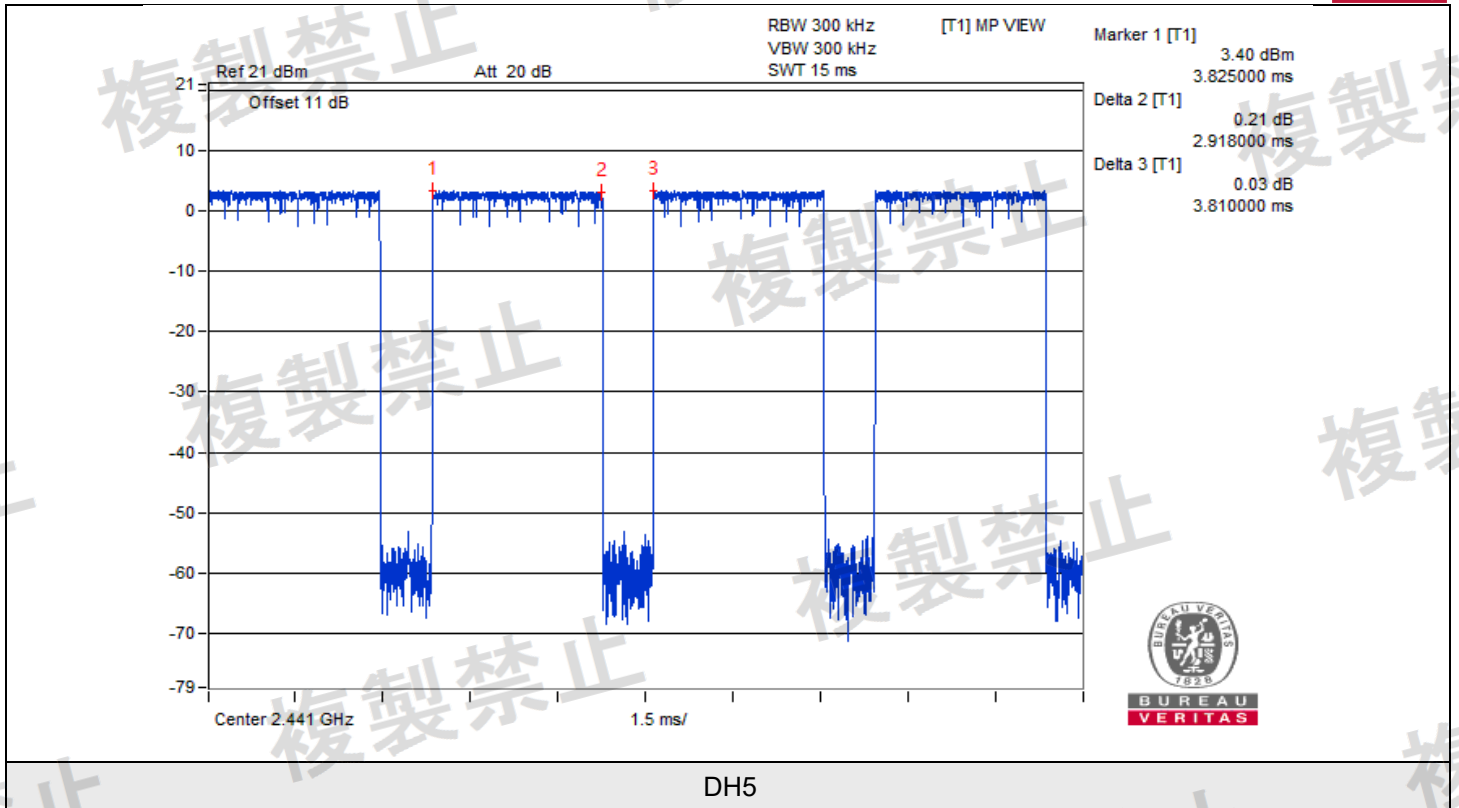
Marker 1 [T1] 3.41 dBm
2.535000 ms
Delta 2 [T1] 0.25 dB
1.657000 ms
Delta 3 [T1] 0.01 dB
2.550000 ms



DH3



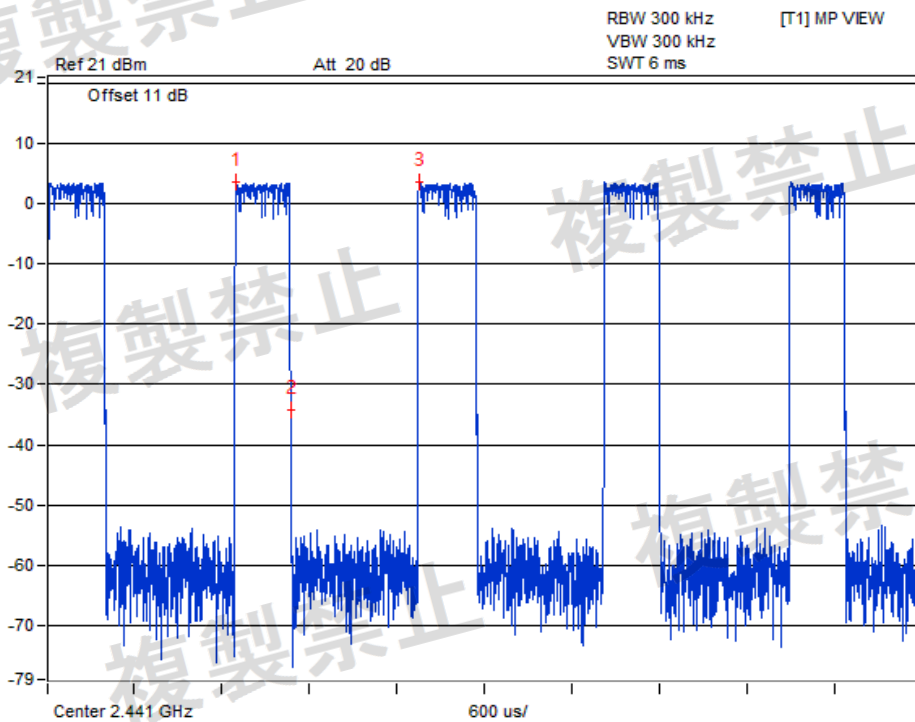
BUREAU
VERITAS





BUREAU
VERITAS

V_{min}.



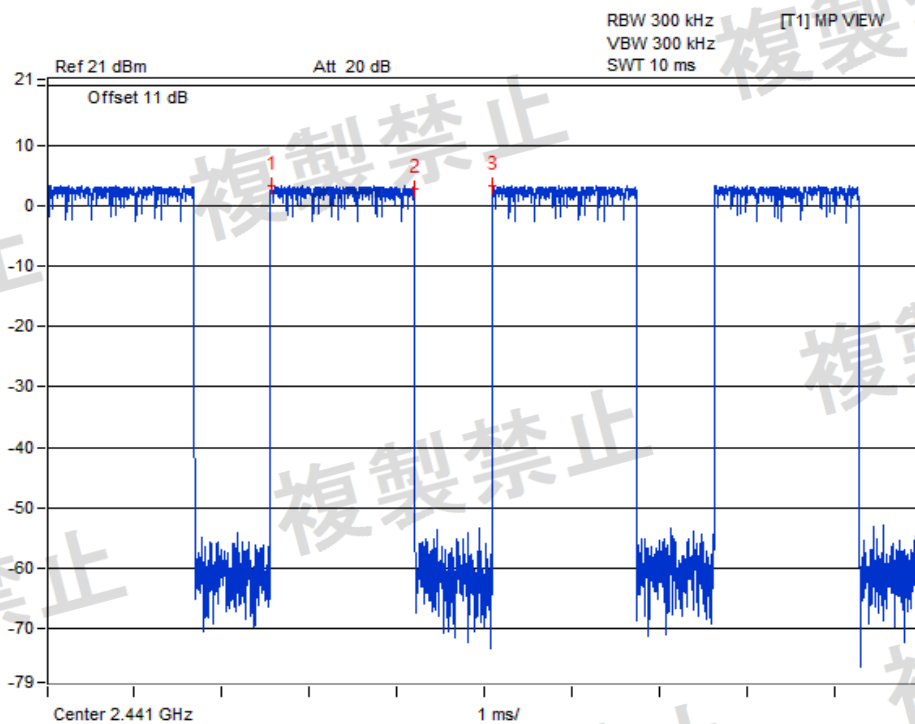
Marker 1 [T1] 3.51 dBm
1.285000 ms

Delta 2 [T1] 37.66 dB
378.000000 us

Delta 3 [T1] 0.00 dB
1.262000 ms



DH1



Marker 1 [T1] 3.41 dBm
2.545000 ms

Delta 2 [T1] 0.57 dB
1.637000 ms

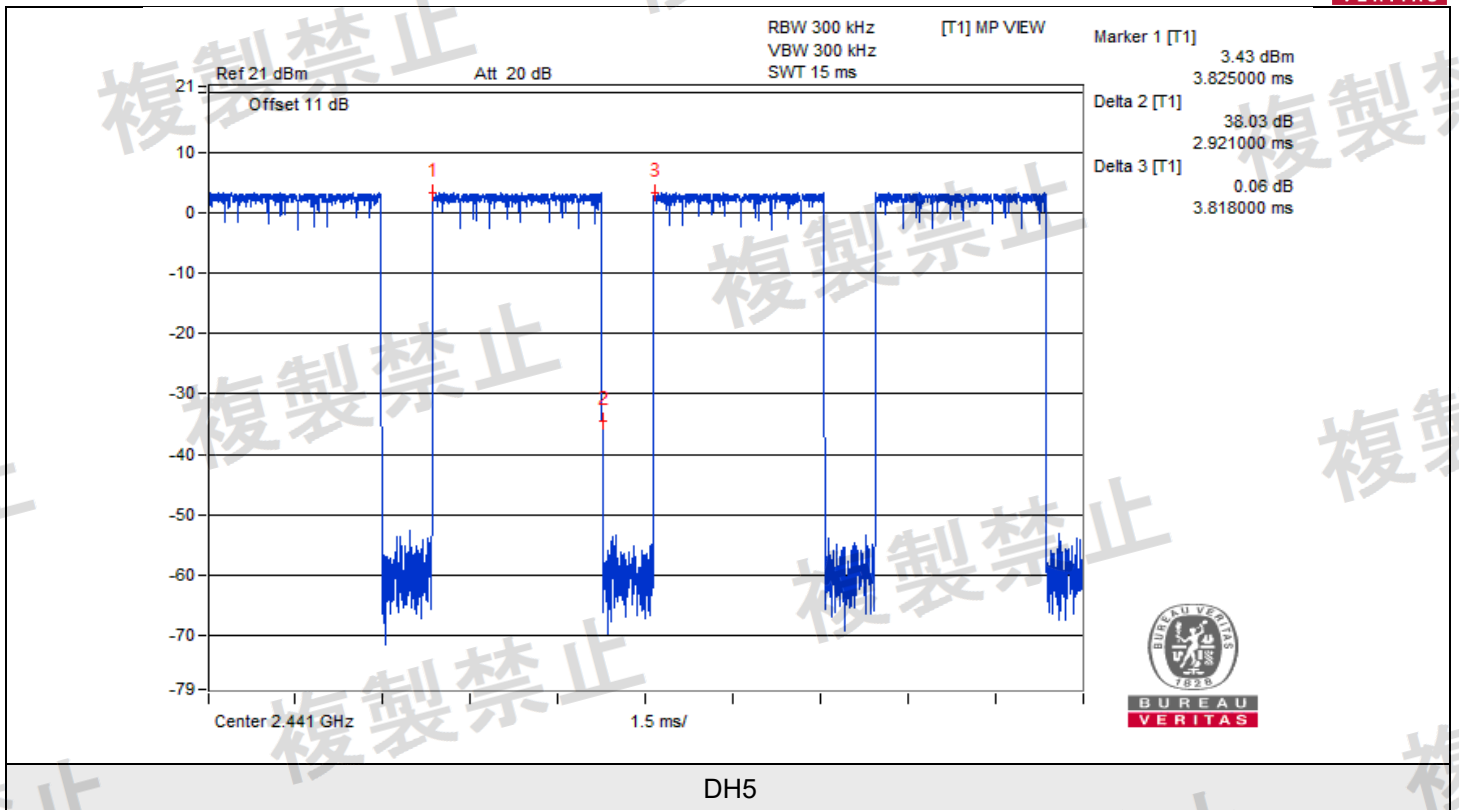
Delta 3 [T1] 0.02 dB
2.547000 ms



DH3



BUREAU
VERITAS



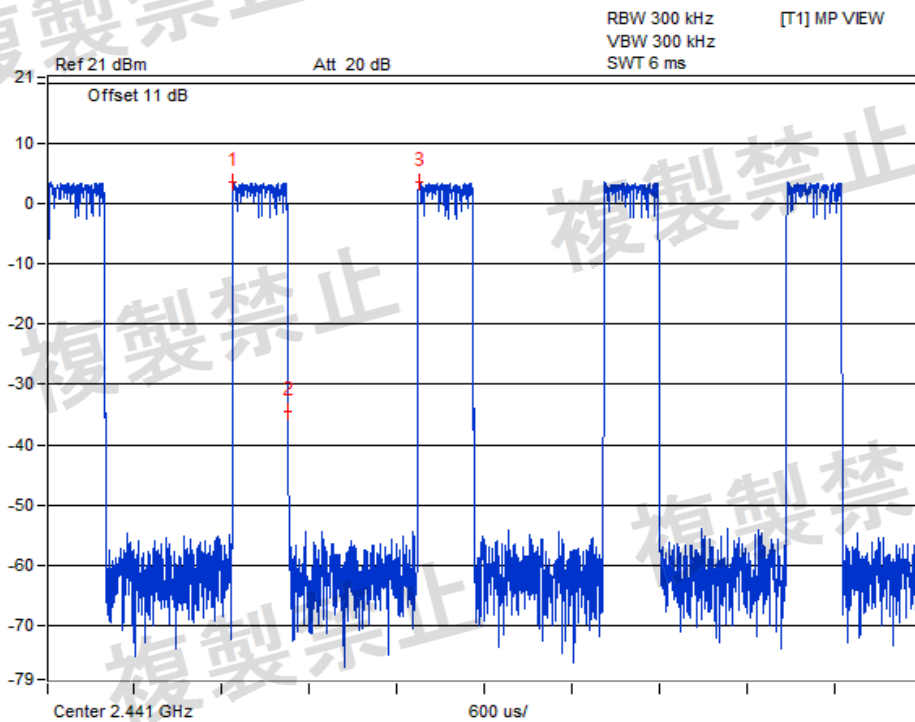
GFSK: AFH Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/20)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	DH1	18.12	0.362	0.295	106.790	400	PASS
	DH3	18.12	0.362	0.647	234.214	400	PASS
	DH5	18.12	0.362	0.763	276.206	400	PASS
V _{max.}	DH1	18.12	0.362	0.310	112.220	400	PASS
	DH3	18.12	0.362	0.650	235.300	400	PASS
	DH5	18.12	0.362	0.766	277.292	400	PASS
V _{min.}	DH1	18.05	0.361	0.300	108.300	400	PASS
	DH3	18.05	0.361	0.643	232.123	400	PASS
	DH5	18.05	0.361	0.765	276.165	400	PASS

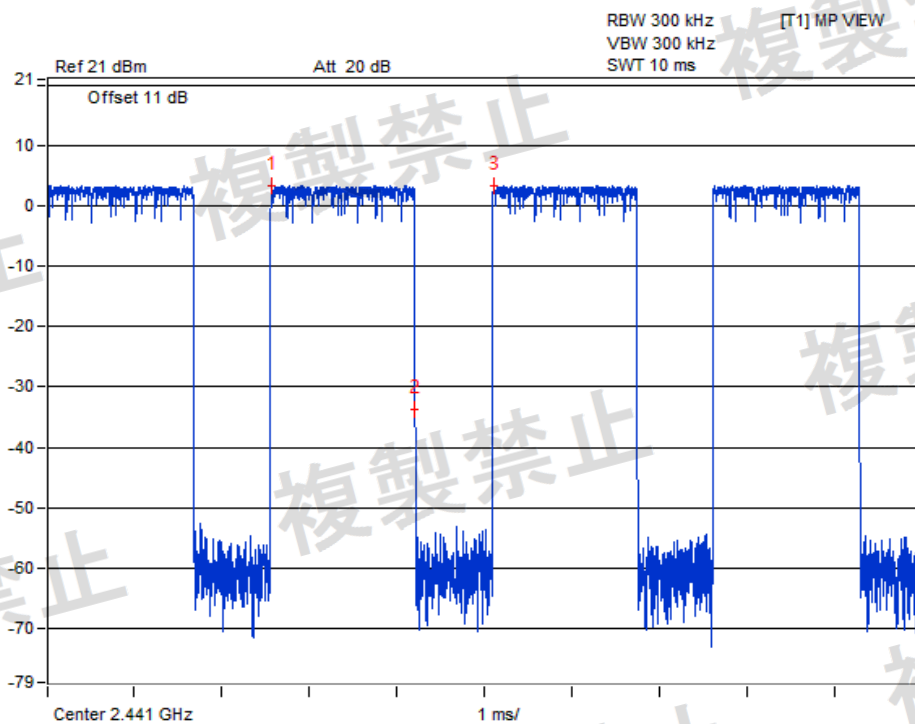


BUREAU
VERITAS

V_{normal}



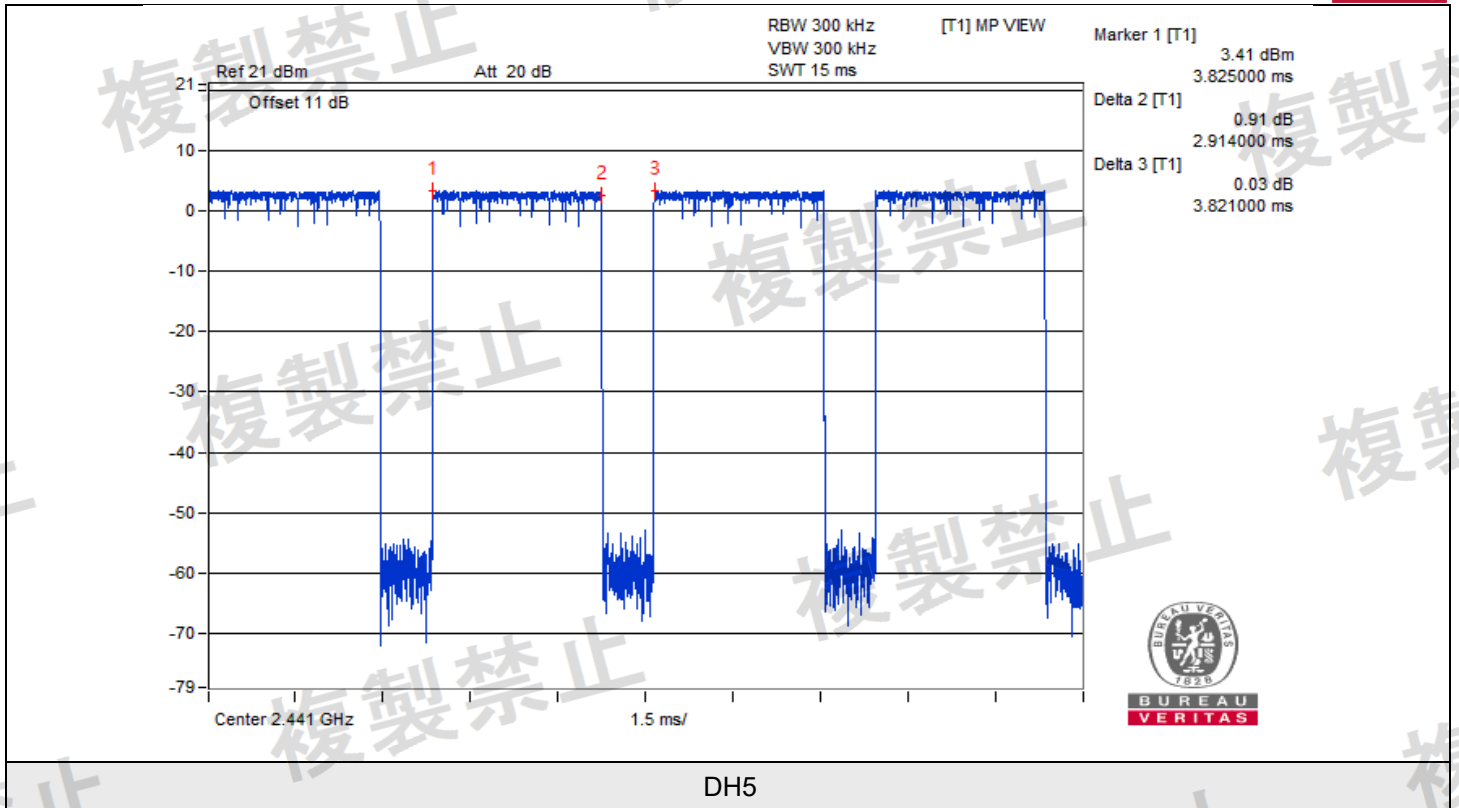
DH1



DH3



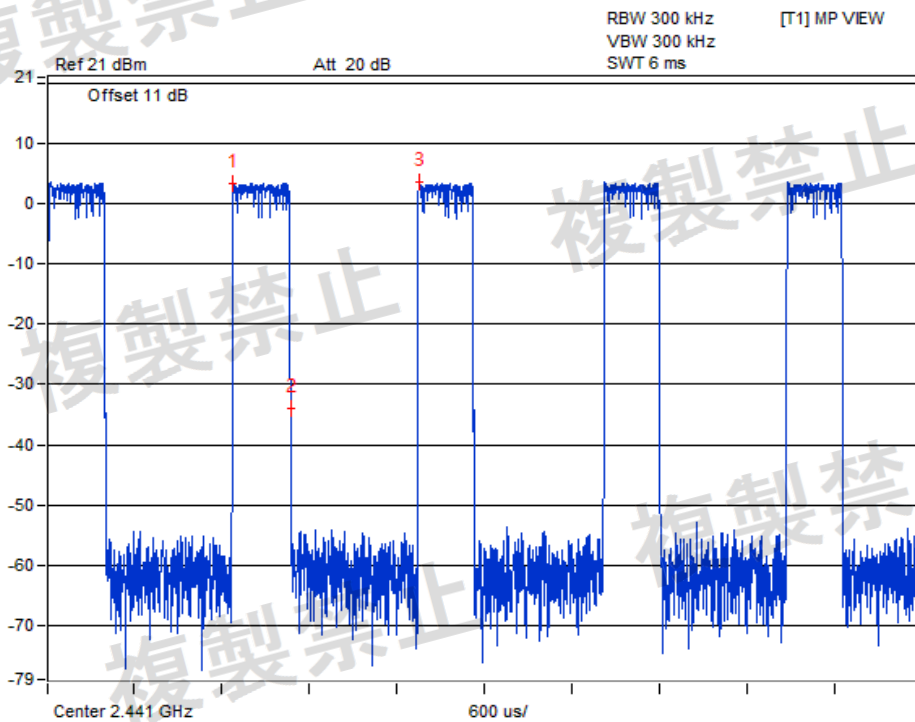
BUREAU
VERITAS





BUREAU
VERITAS

V_{max}.



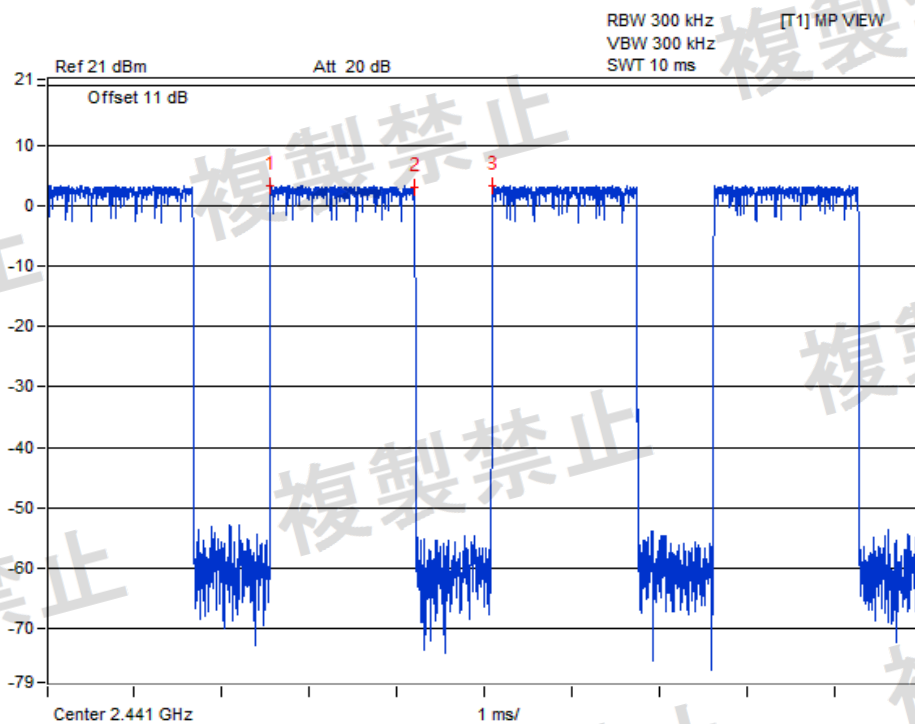
Marker 1 [T1] 3.48 dBm
1.266000 ms

Delta 2 [T1] 37.48 dB
397.000000 us

Delta 3 [T1] 0.04 dB
1.280000 ms



DH1



Marker 1 [T1] 3.41 dBm
2.535000 ms

Delta 2 [T1] 0.25 dB
1.657000 ms

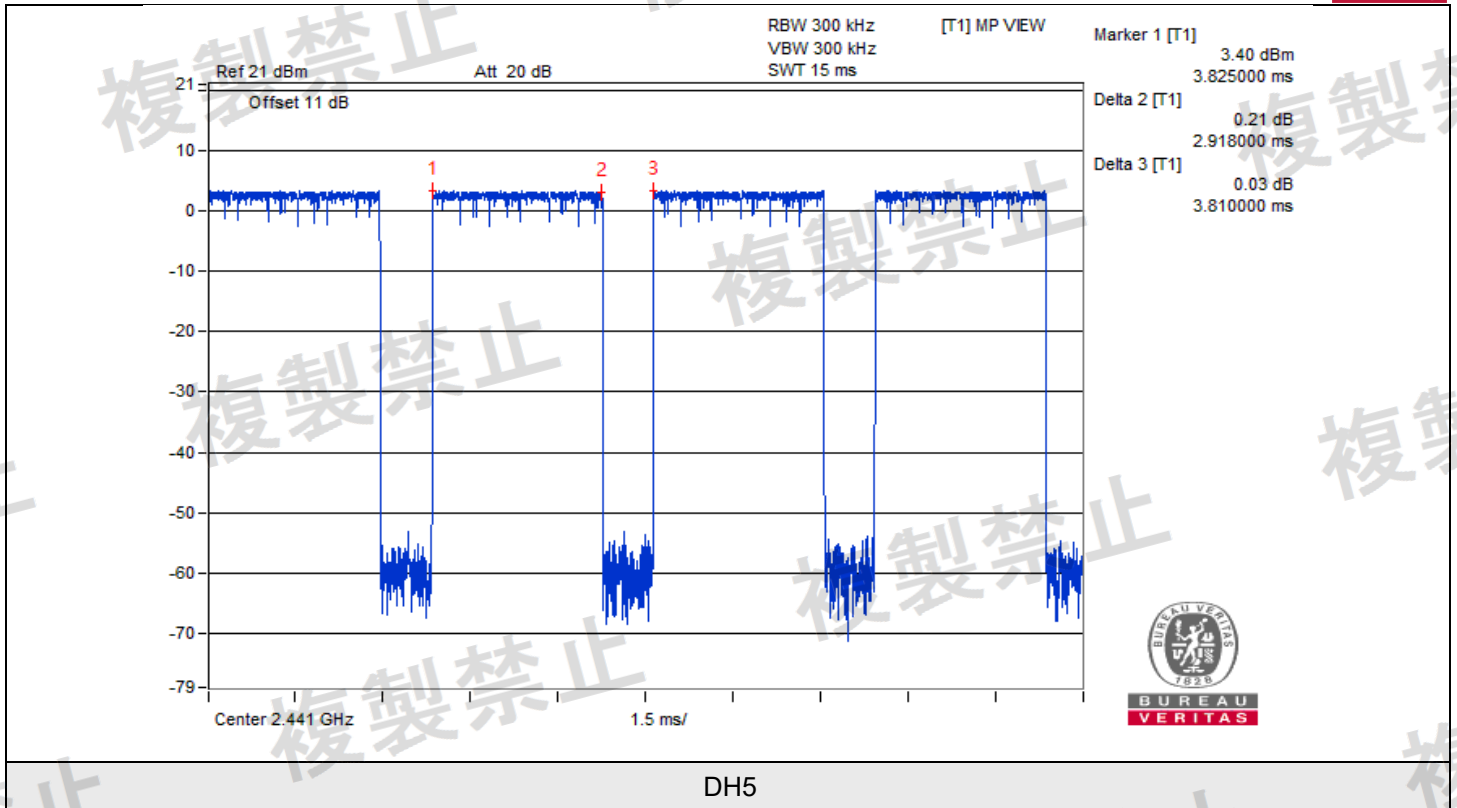
Delta 3 [T1] 0.01 dB
2.550000 ms



DH3



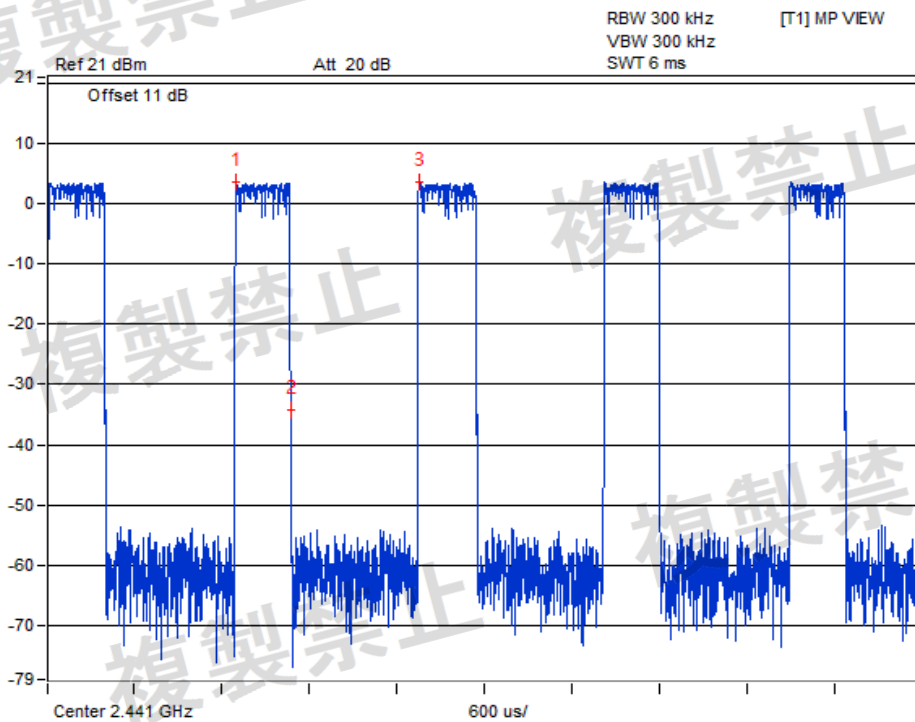
BUREAU
VERITAS





BUREAU
VERITAS

V_{min}.



Marker 1 [T1] 3.51 dBm
1.285000 ms

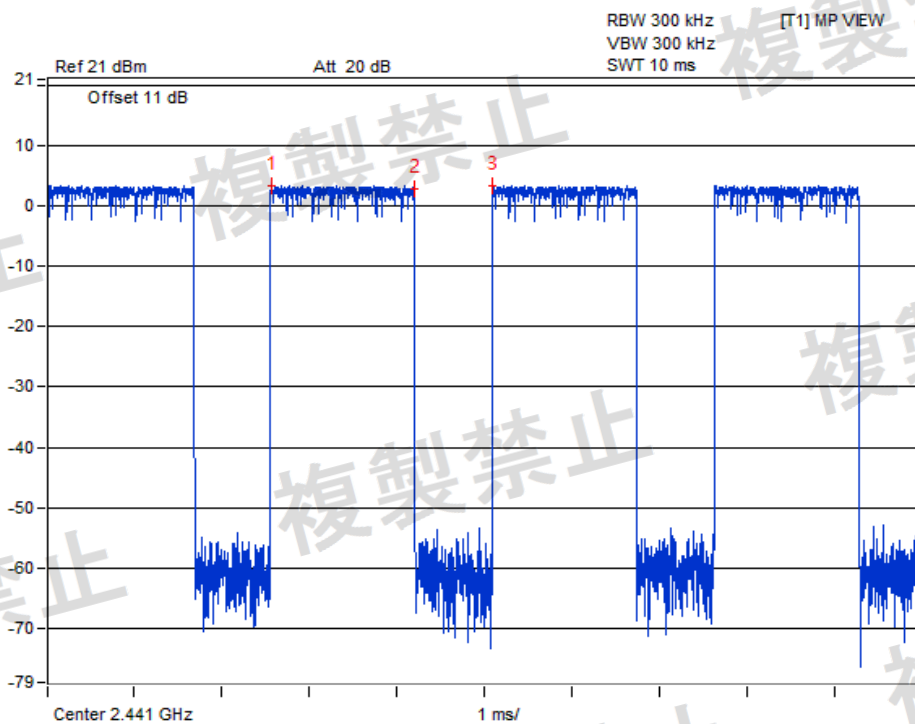
Delta 2 [T1] 37.66 dB
378.000000 us

Delta 3 [T1] 0.00 dB
1.262000 ms



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VERITAS

DH1



Marker 1 [T1] 3.41 dBm
2.545000 ms

Delta 2 [T1] 0.57 dB
1.637000 ms

Delta 3 [T1] 0.02 dB
2.547000 ms

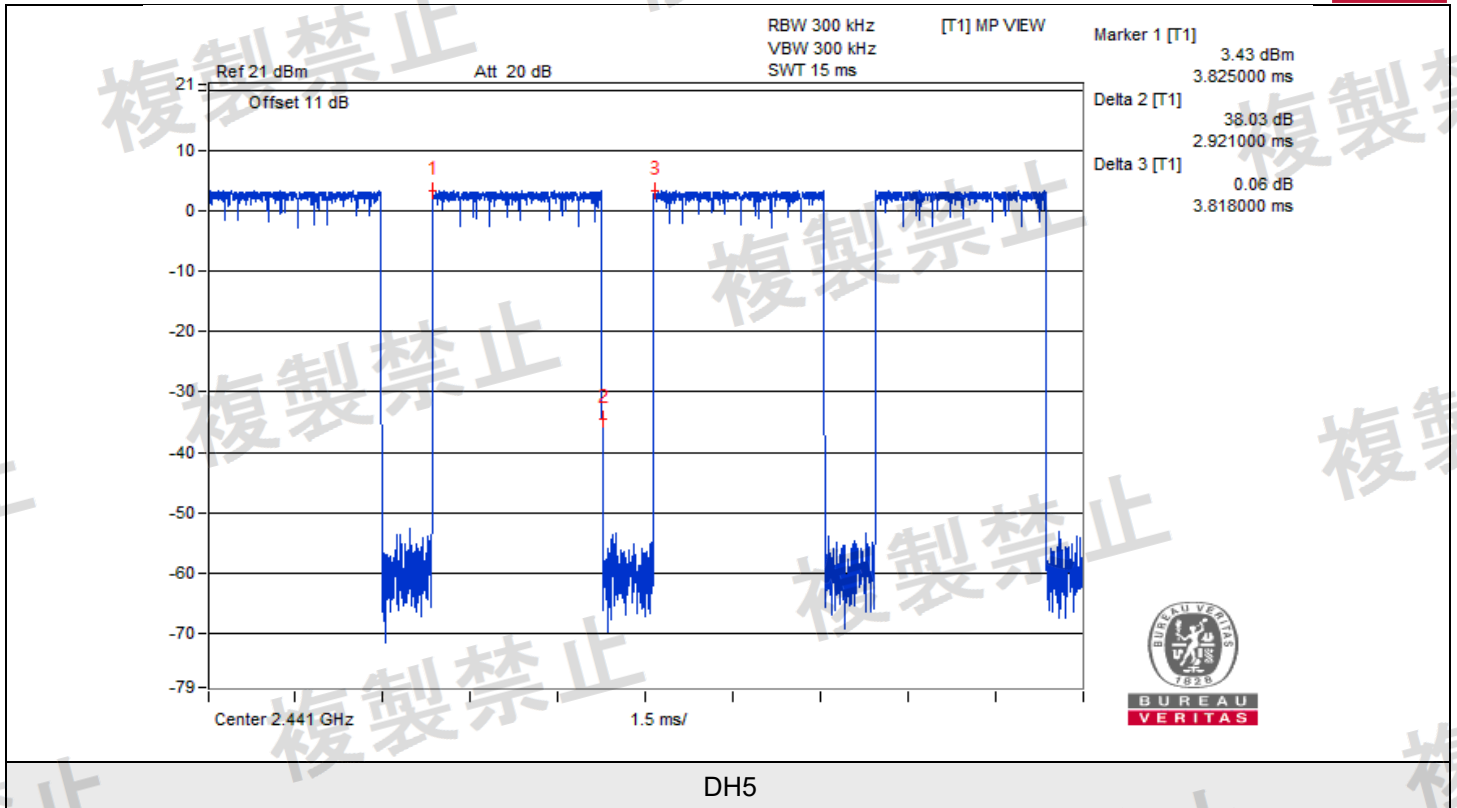


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VERITAS

DH3



BUREAU
VERITAS



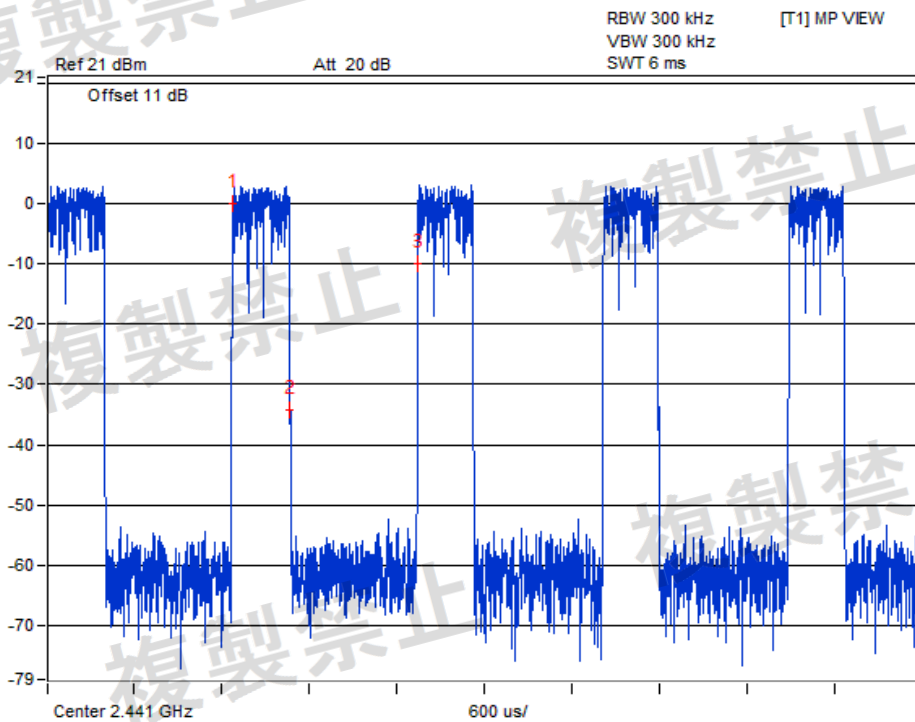
$\pi/4$ -DQPSK: Normal Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/79)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	2DH1	71.40	0.362	0.312	112.944	400	PASS
	2DH3	71.40	0.362	0.648	234.576	400	PASS
	2DH5	71.40	0.362	0.763	276.206	400	PASS
V _{max.}	2DH1	71.60	0.363	0.302	109.626	400	PASS
	2DH3	71.60	0.363	0.649	235.587	400	PASS
	2DH5	71.60	0.363	0.764	277.332	400	PASS
V _{min.}	2DH1	71.40	0.362	0.300	108.600	400	PASS
	2DH3	71.40	0.362	0.653	236.386	400	PASS
	2DH5	71.40	0.362	0.764	276.568	400	PASS

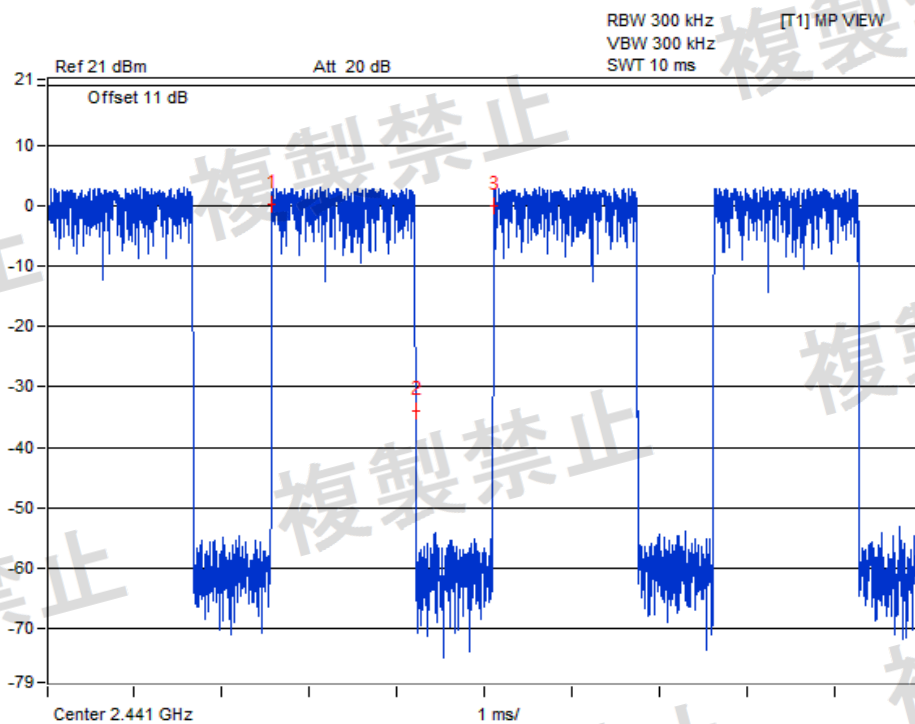


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VERITAS

Vnormal



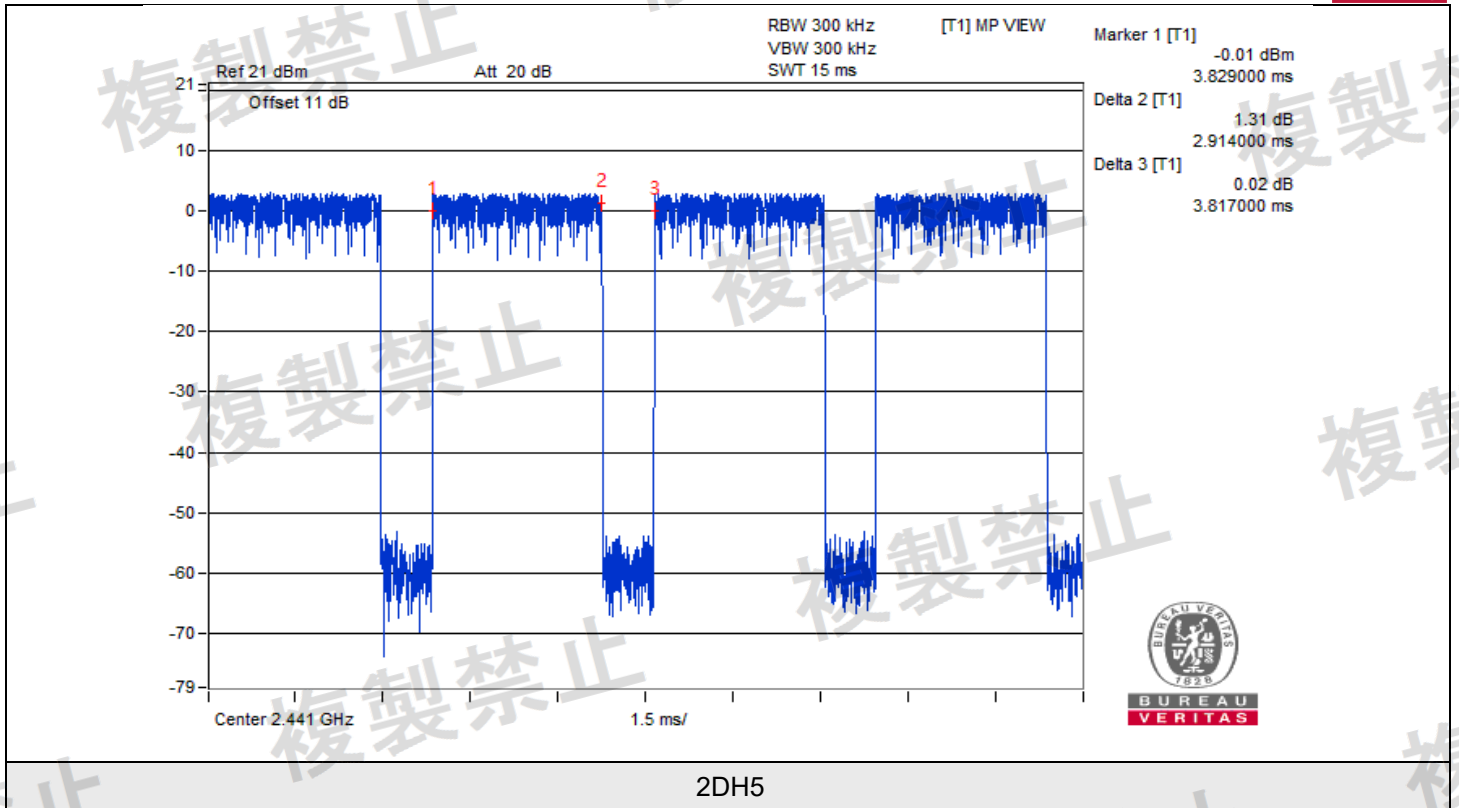
2DH1



2DH3



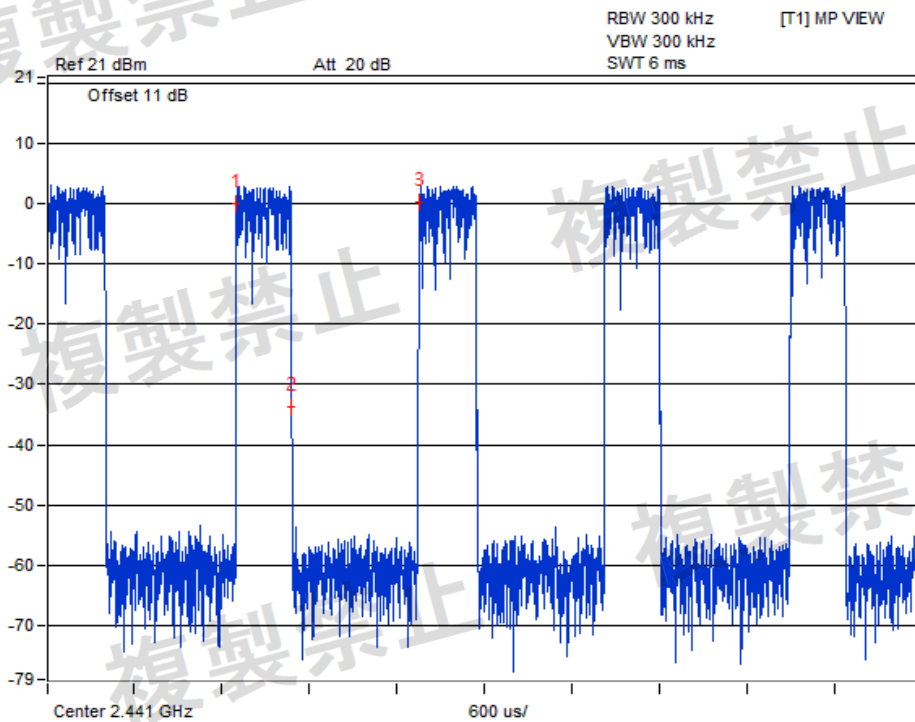
BUREAU
VERITAS





BUREAU
VERITAS

V_{max}.



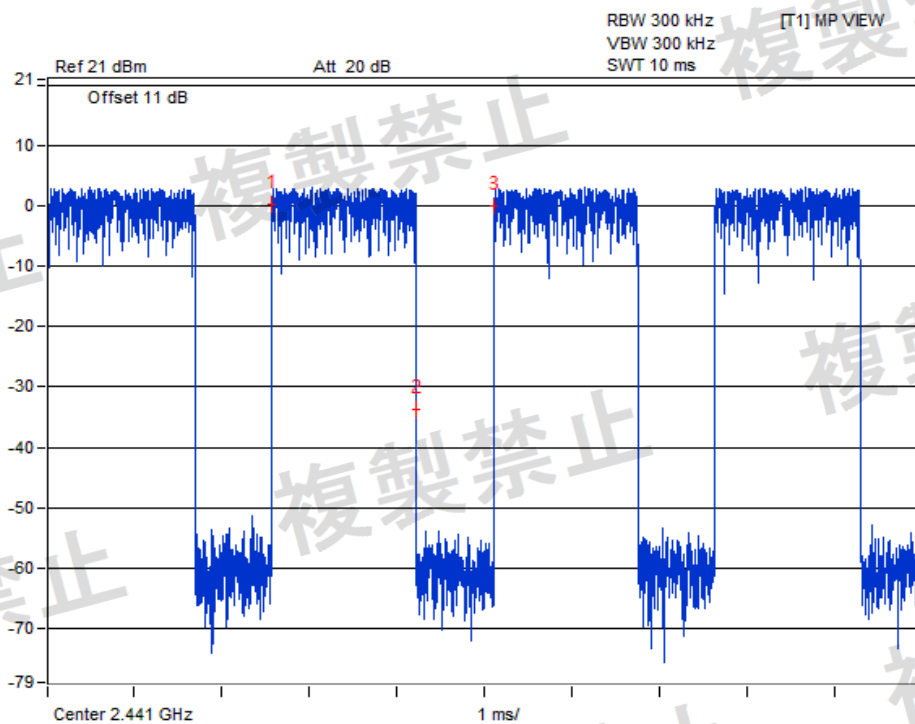
Marker 1 [T1] 0.08 dBm
1.288000 ms

Delta 2 [T1] 33.73 dB
380.000000 us

Delta 3 [T1] 0.31 dB
1.259000 ms



2DH1



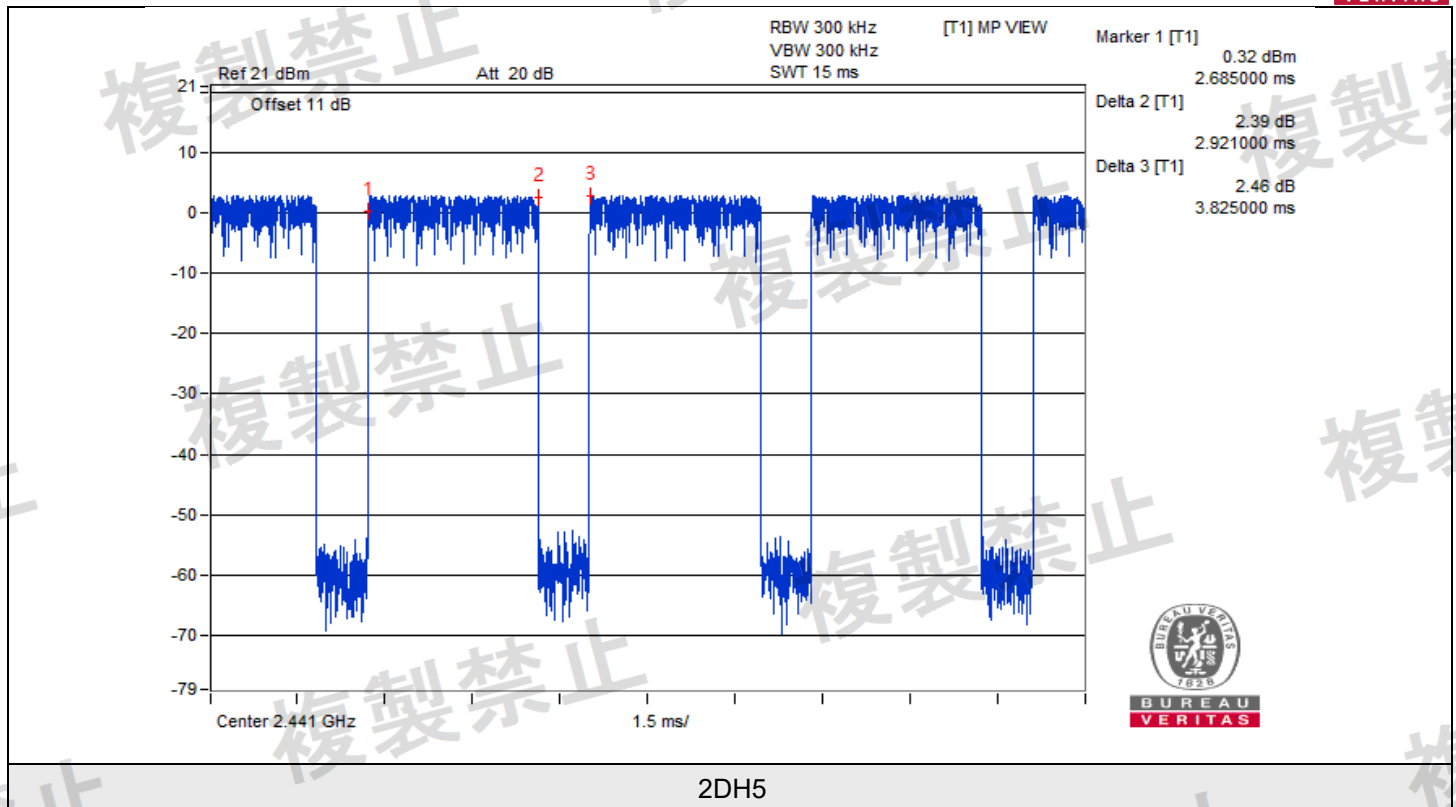
Marker 1 [T1] 0.37 dBm
2.552000 ms

Delta 2 [T1] 34.15 dB
1.658000 ms

Delta 3 [T1] 0.32 dB
2.555000 ms



2DH3





BUREAU
VERITAS

V_{min}.



Marker 1 [T1] -21.86 dBm
1.275000 ms

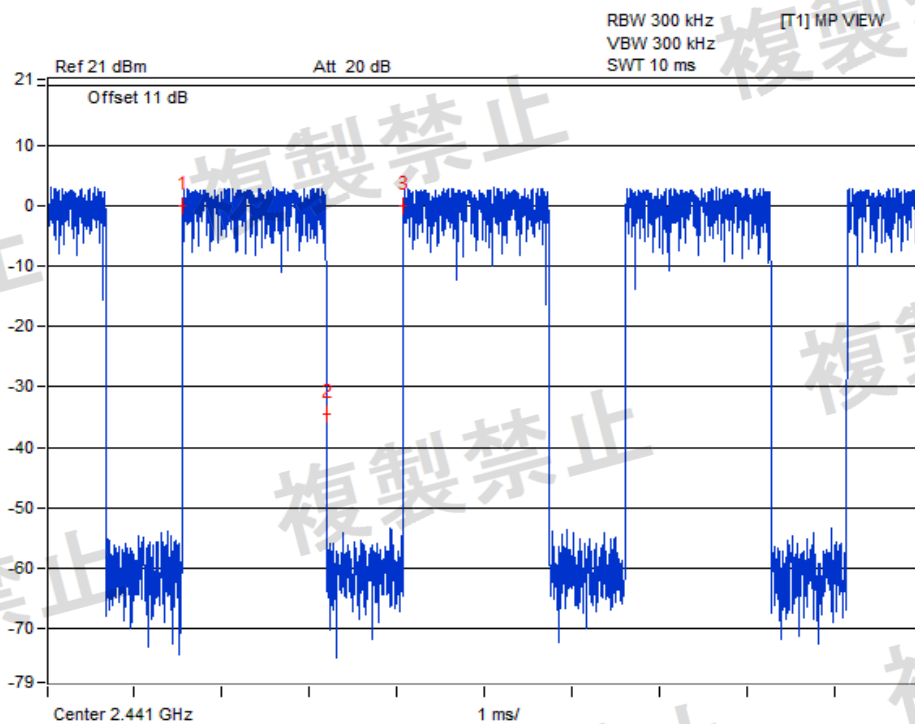
Delta 2 [T1] 12.33 dB
385.000000 us

Delta 3 [T1] 21.94 dB
1.284000 ms



BUREAU
VERITAS

2DH1



Marker 1 [T1] 0.10 dBm
1.535000 ms

Delta 2 [T1] 34.49 dB
1.650000 ms

Delta 3 [T1] 0.01 dB
2.527000 ms

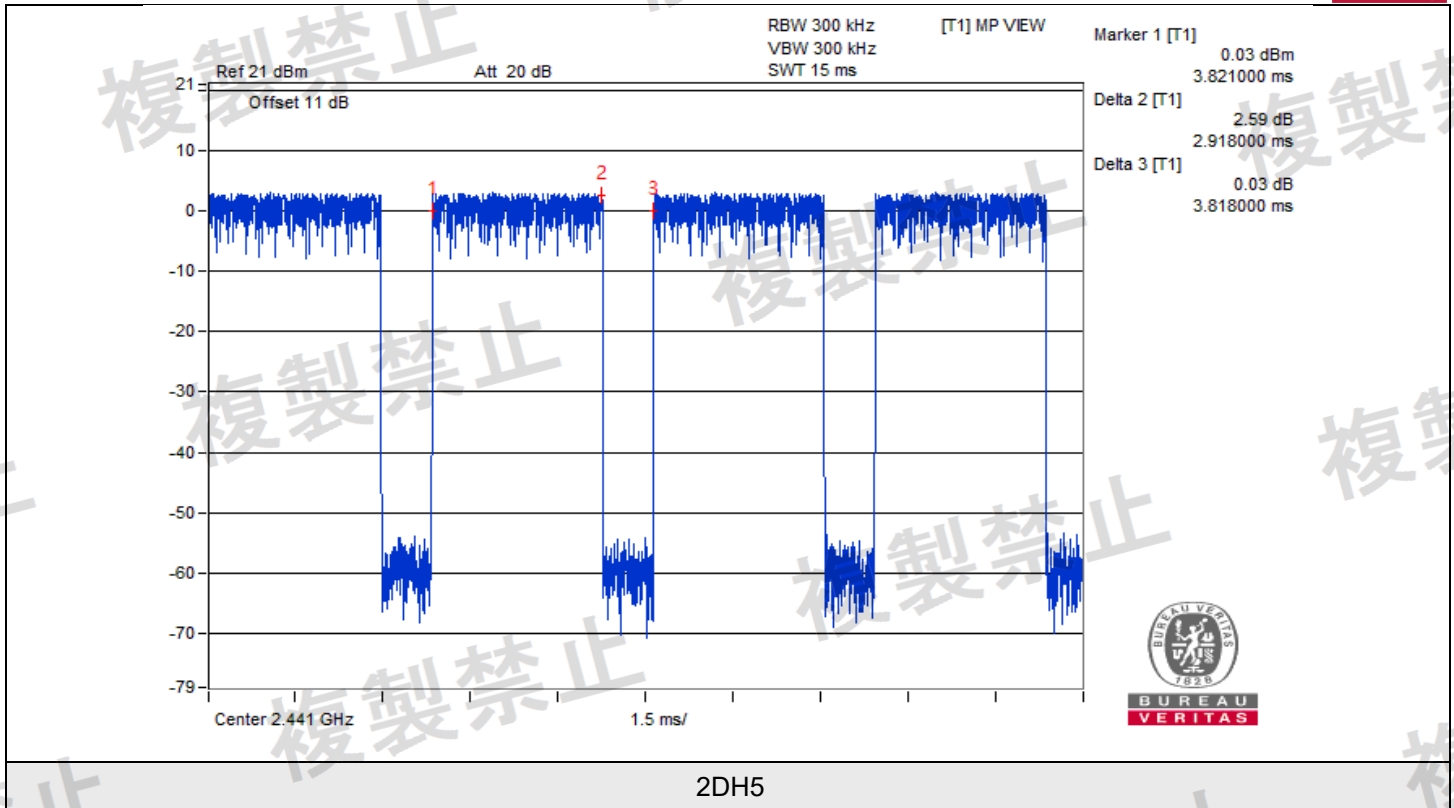


BUREAU
VERITAS

2DH3



BUREAU
VERITAS



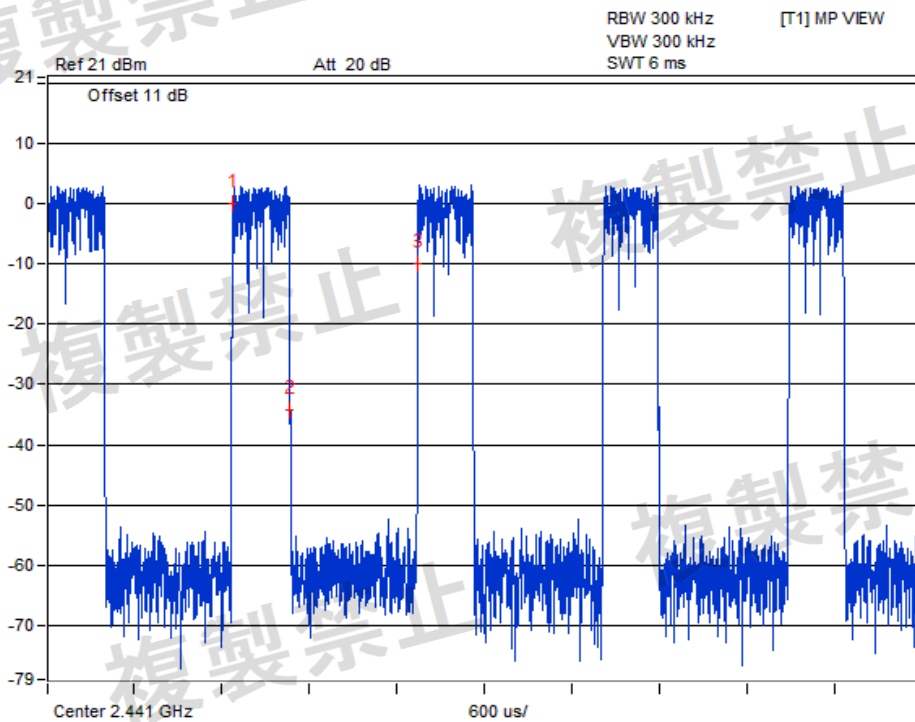
$\pi/4$ -DQPSK: AFH Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/20)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	2DH1	18.26	0.365	0.312	113.880	400	PASS
	2DH3	18.26	0.365	0.648	236.520	400	PASS
	2DH5	18.26	0.365	0.763	278.495	400	PASS
V _{max.}	2DH1	18.19	0.364	0.302	109.928	400	PASS
	2DH3	18.19	0.364	0.649	236.236	400	PASS
	2DH5	18.19	0.364	0.764	278.096	400	PASS
V _{min.}	2DH1	18.19	0.364	0.300	109.200	400	PASS
	2DH3	18.19	0.364	0.653	237.692	400	PASS
	2DH5	18.19	0.364	0.764	278.096	400	PASS



BUREAU
VERITAS

V_{normal}



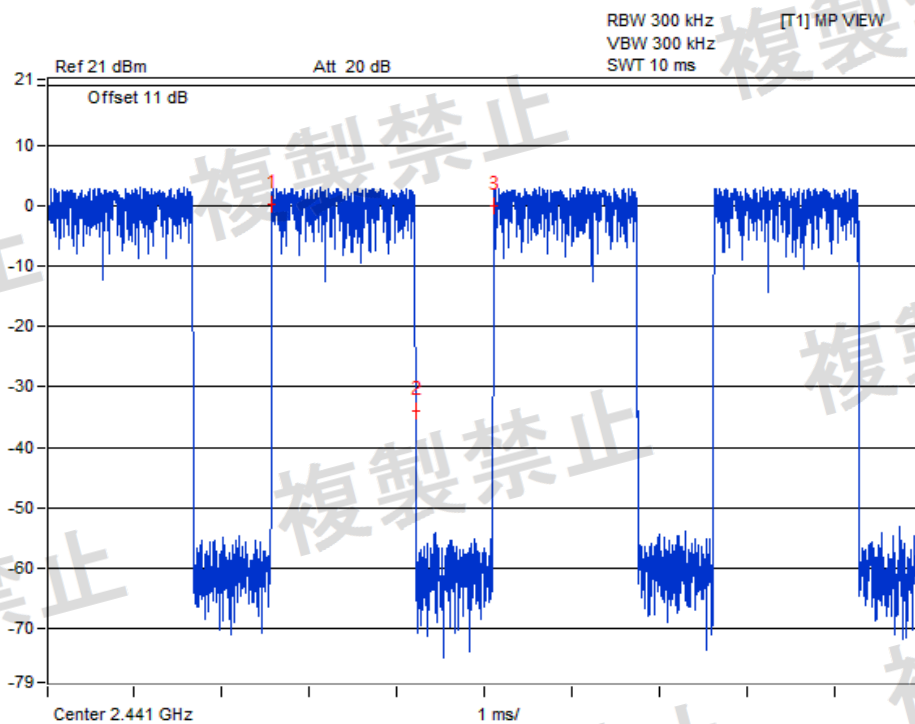
Marker 1 [T1]
0.07 dBm
1.261000 ms

Delta 2 [T1]
34.43 dB
398.000000 us

Delta 3 [T1]
10.14 dB
1.274000 ms



2DH1



Marker 1 [T1]
0.36 dBm
2.550000 ms

Delta 2 [T1]
34.31 dB
1.652000 ms

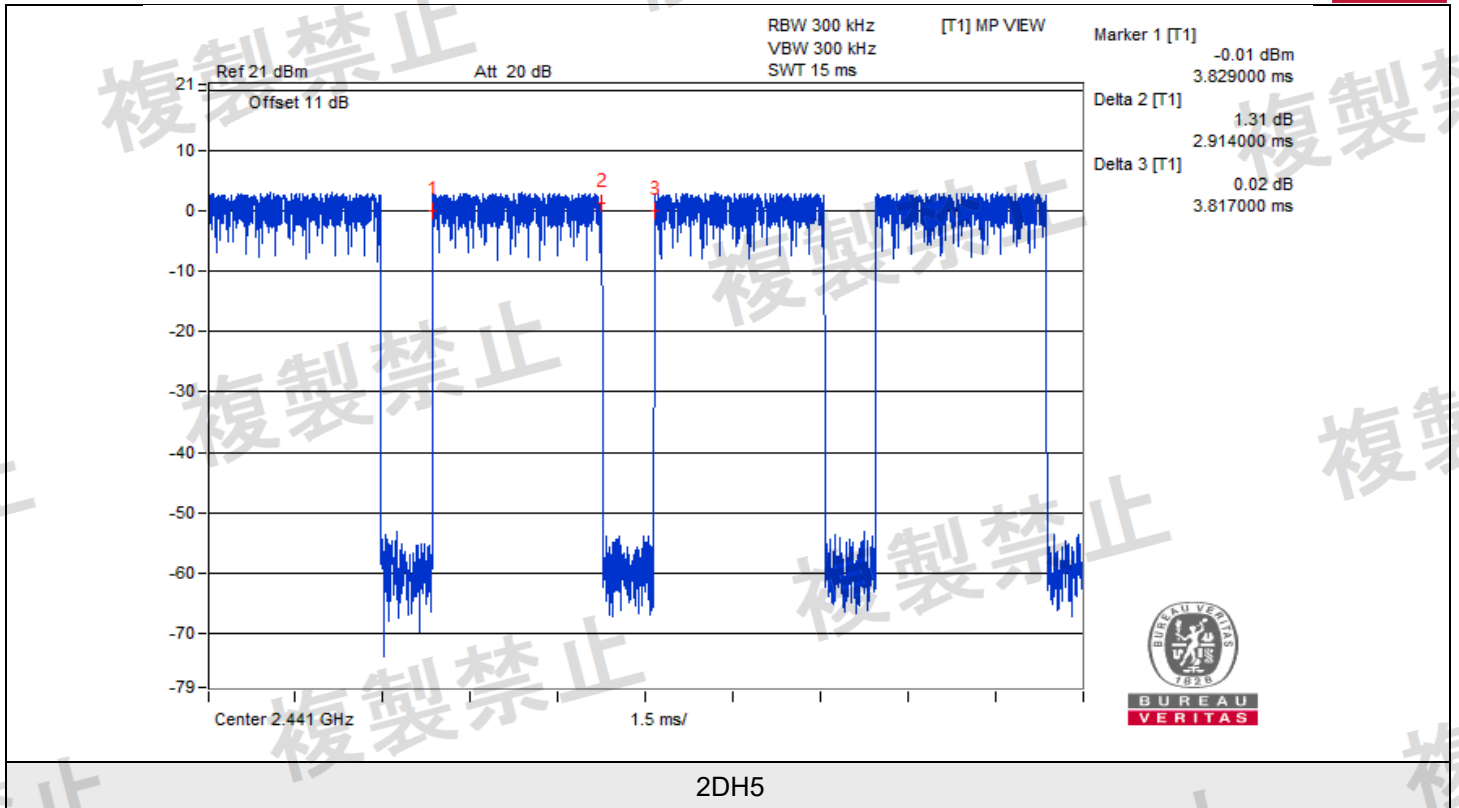
Delta 3 [T1]
0.28 dB
2.550000 ms



2DH3



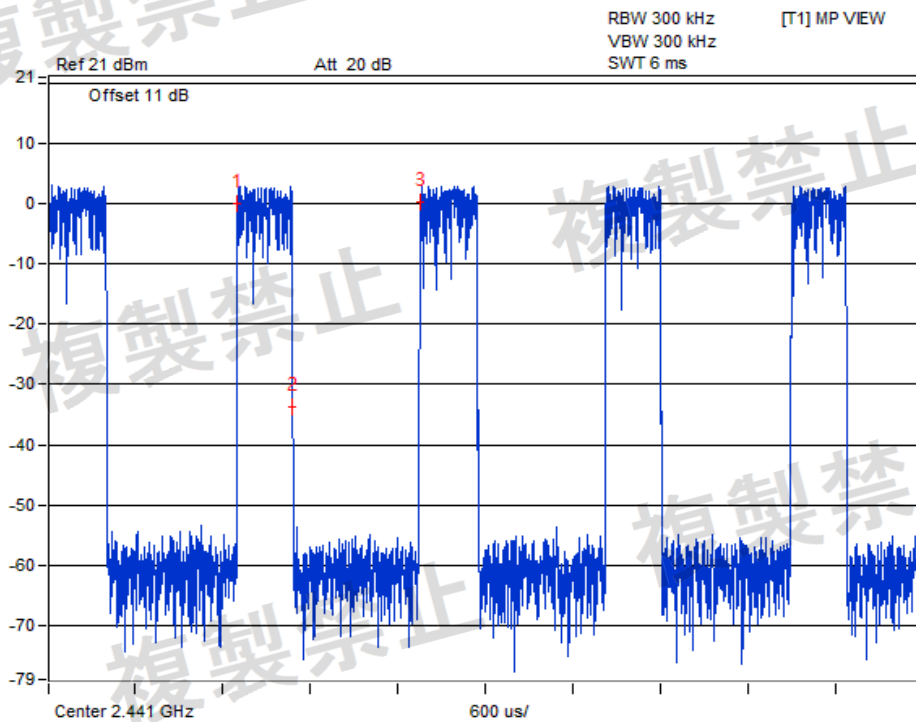
BUREAU
VERITAS



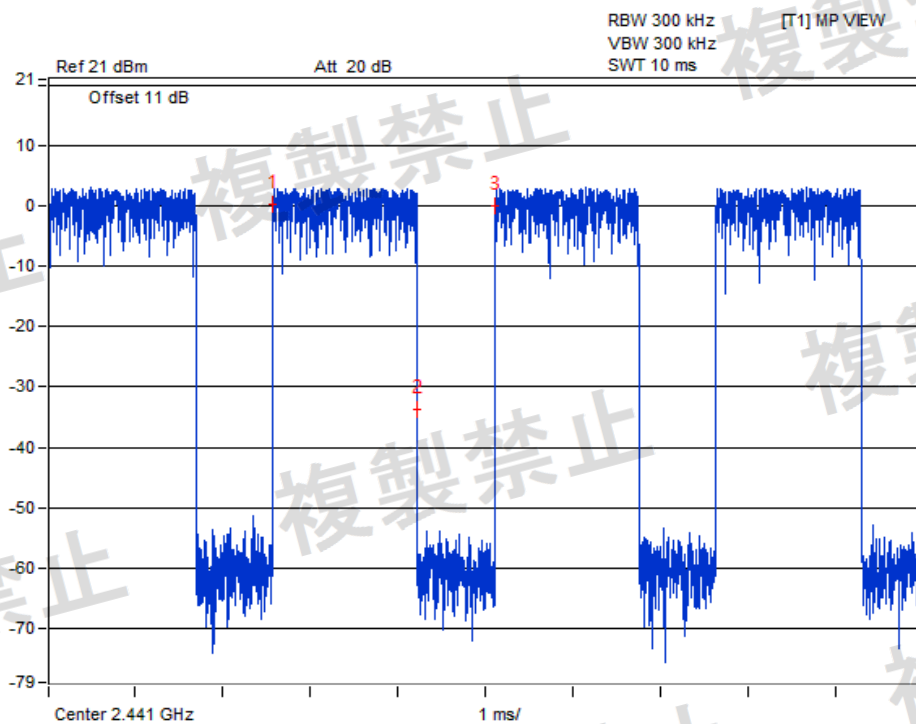


BUREAU
VERITAS

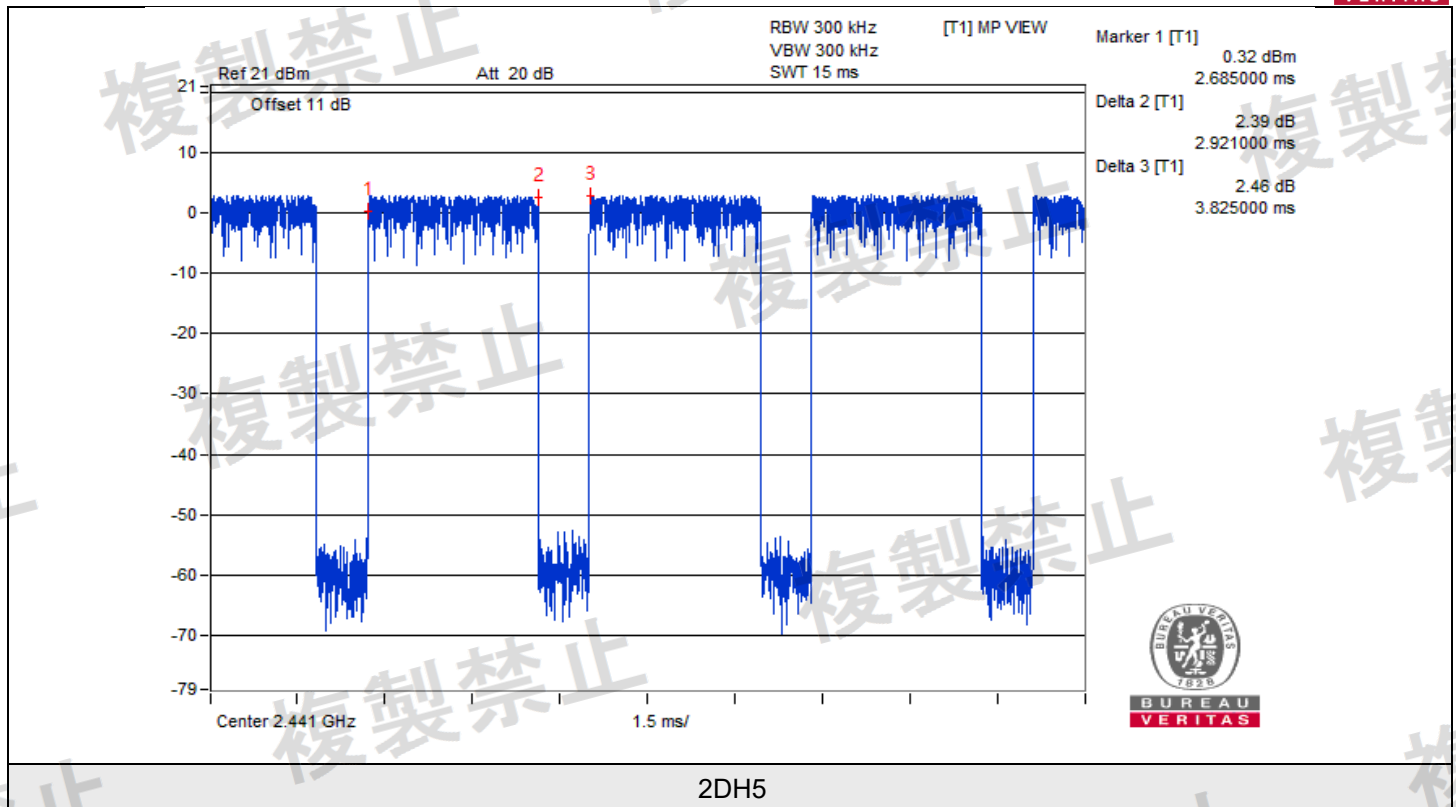
V_{max}.



2DH1



2DH3





BUREAU
VERITAS

V_{min}.



Marker 1 [T1] -21.86 dBm
1.275000 ms

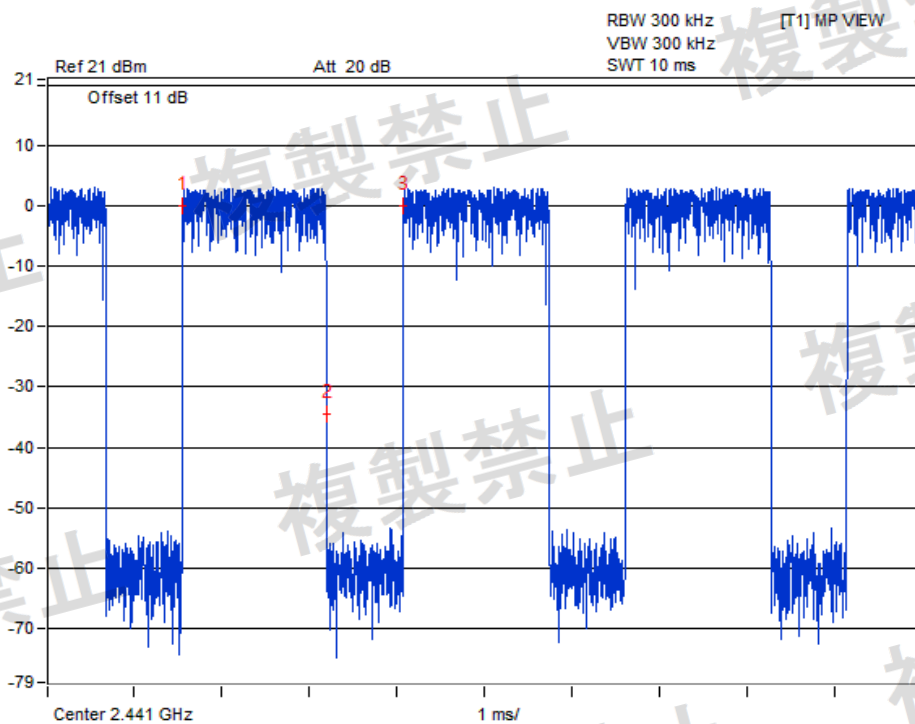
Delta 2 [T1] 12.33 dB
385.000000 us

Delta 3 [T1] 21.94 dB
1.284000 ms



BUREAU
VERITAS

2DH1



Marker 1 [T1] 0.10 dBm
1.535000 ms

Delta 2 [T1] 34.49 dB
1.650000 ms

Delta 3 [T1] 0.01 dB
2.527000 ms

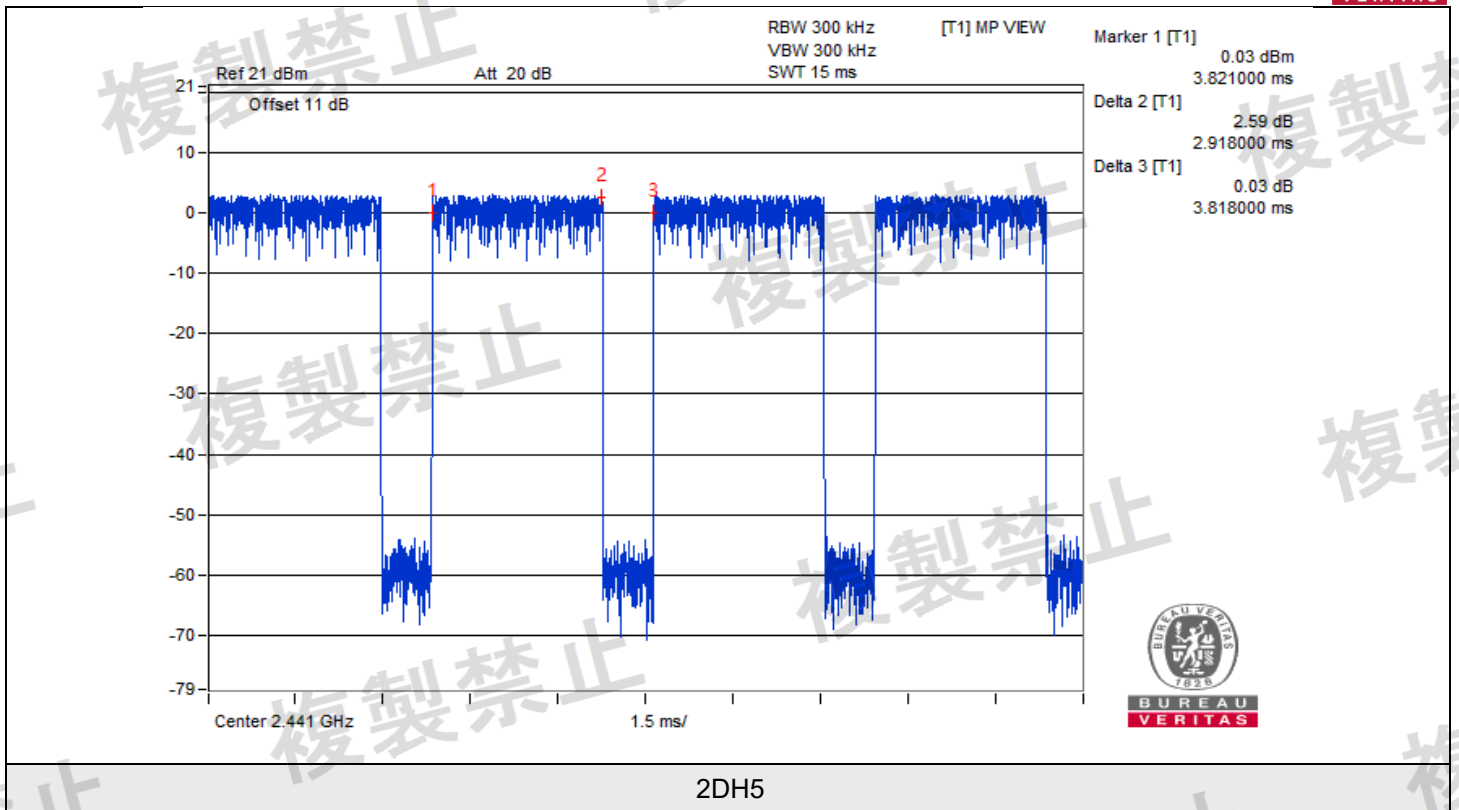


BUREAU
VERITAS

2DH3



BUREAU
VERITAS



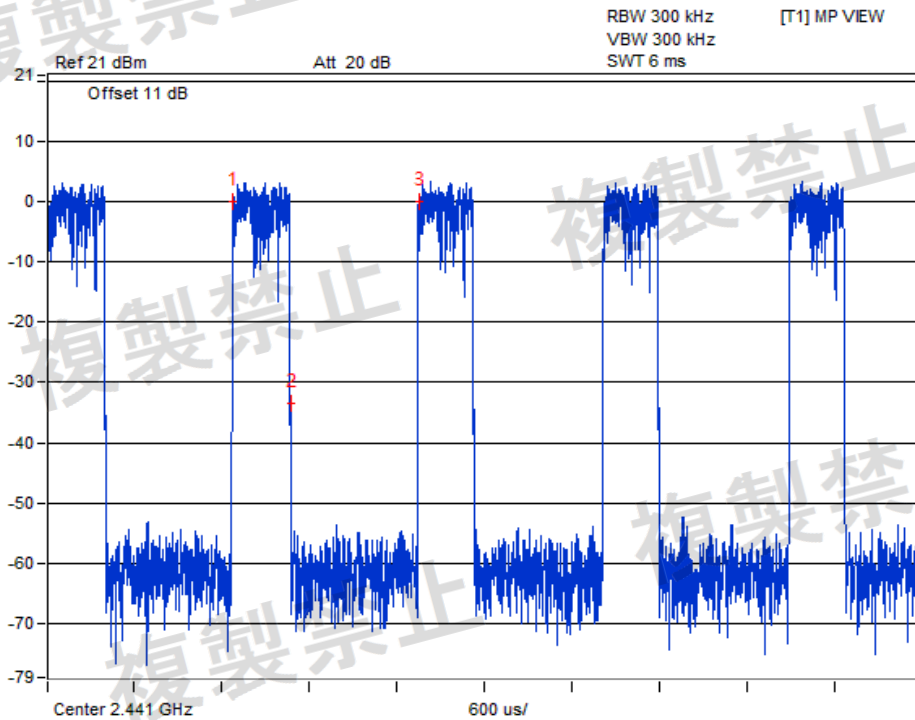
8DPSK: Normal Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/79)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	3DH1	71.20	0.361	0.311	112.271	400	PASS
	3DH3	71.20	0.361	0.652	235.372	400	PASS
	3DH5	71.20	0.361	0.760	274.360	400	PASS
V _{max.}	3DH1	71.60	0.363	0.296	107.448	400	PASS
	3DH3	71.60	0.363	0.653	237.039	400	PASS
	3DH5	71.60	0.363	0.762	276.606	400	PASS
V _{min.}	3DH1	71.40	0.362	0.296	107.152	400	PASS
	3DH3	71.40	0.362	0.646	233.852	400	PASS
	3DH5	71.40	0.362	0.759	274.758	400	PASS

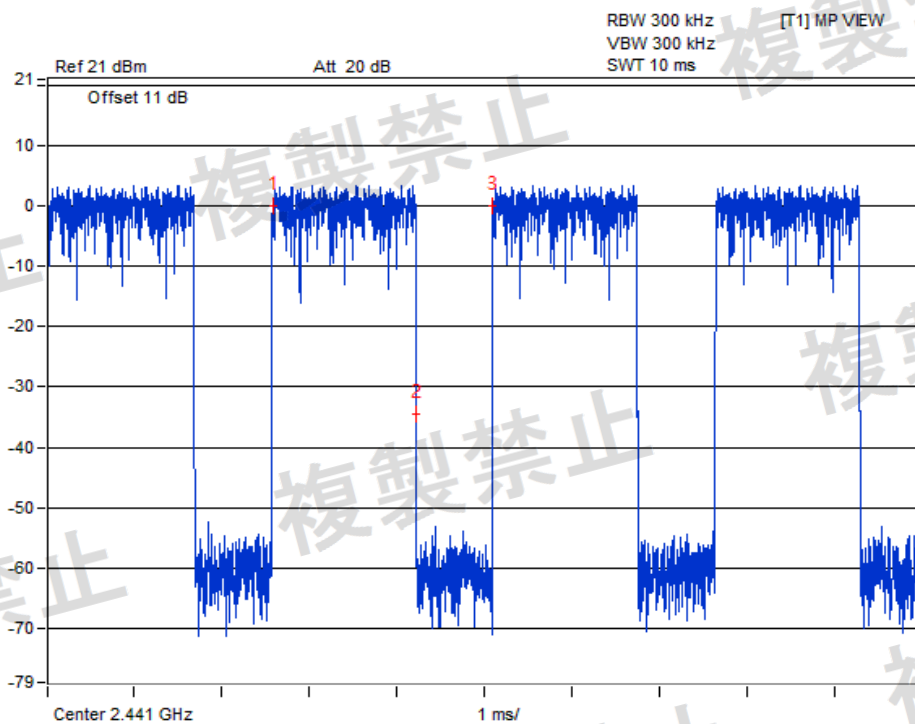


BUREAU
VERITAS

V_{normal}



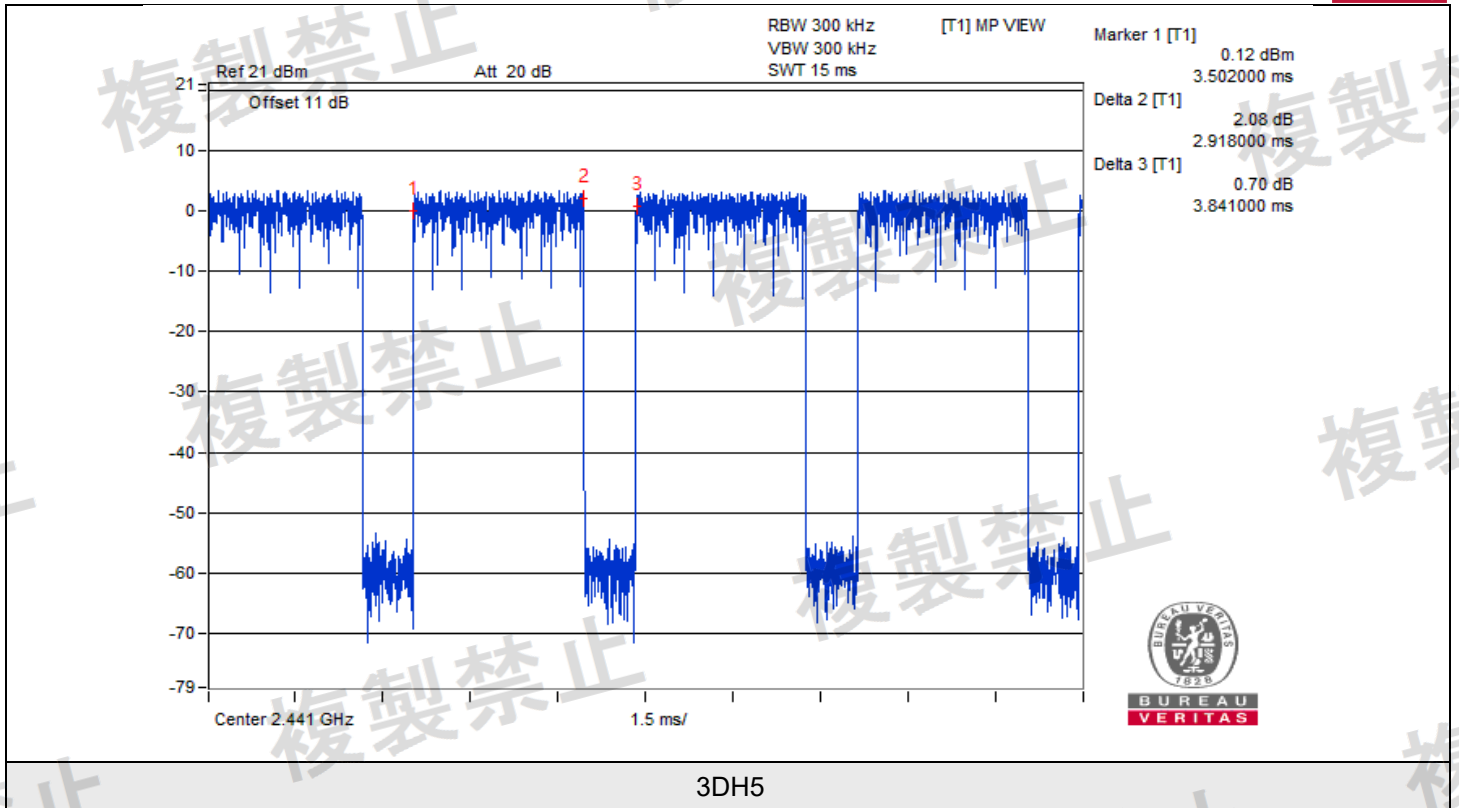
3DH1



3DH3



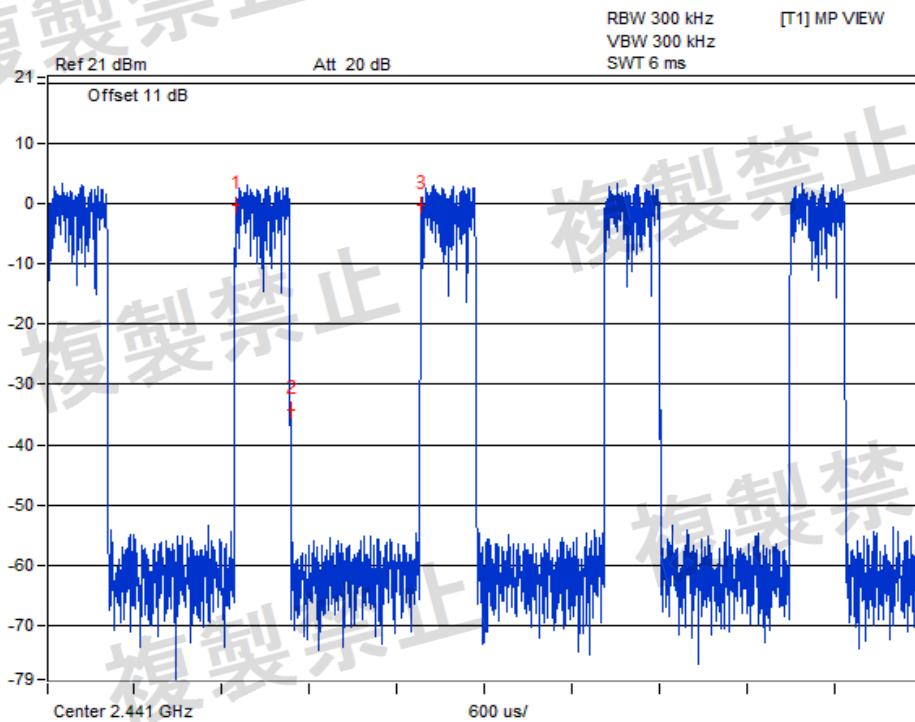
BUREAU
VERITAS



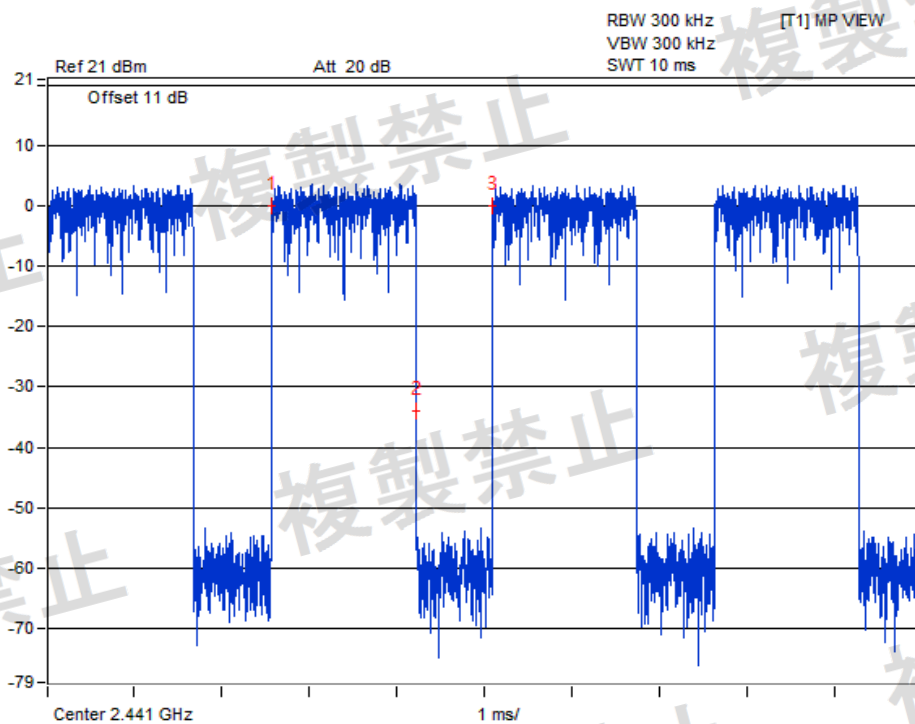


BUREAU
VERITAS

V_{max}.



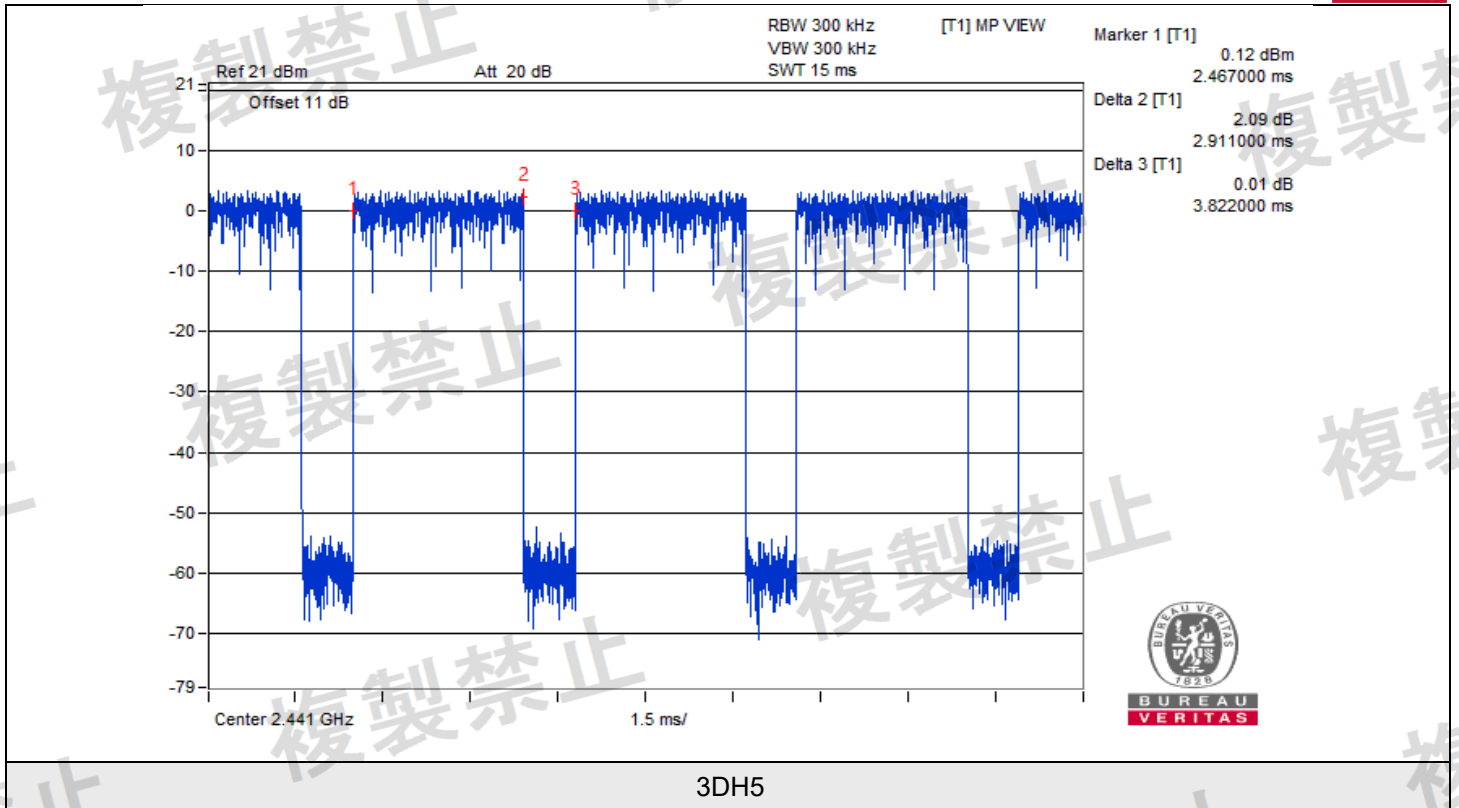
3DH1



3DH3



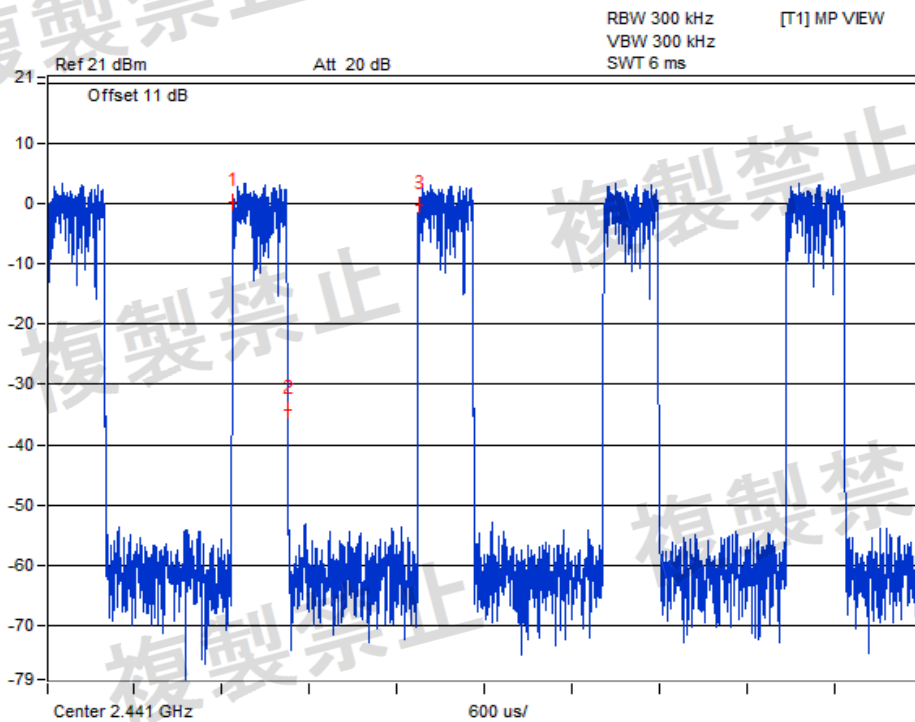
BUREAU
VERITAS



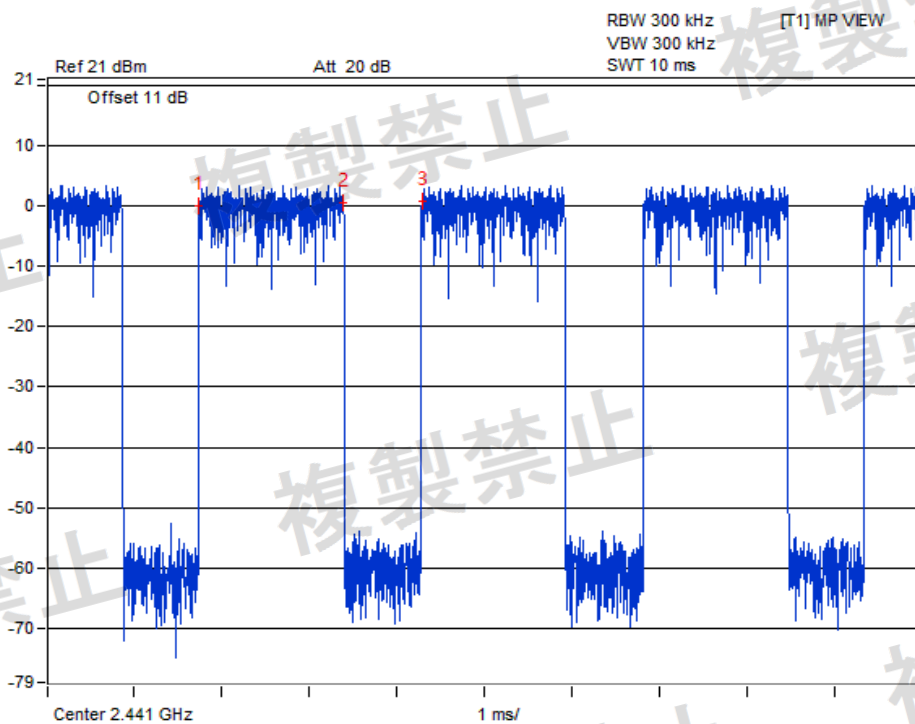


BUREAU
VERITAS

V_{min}.



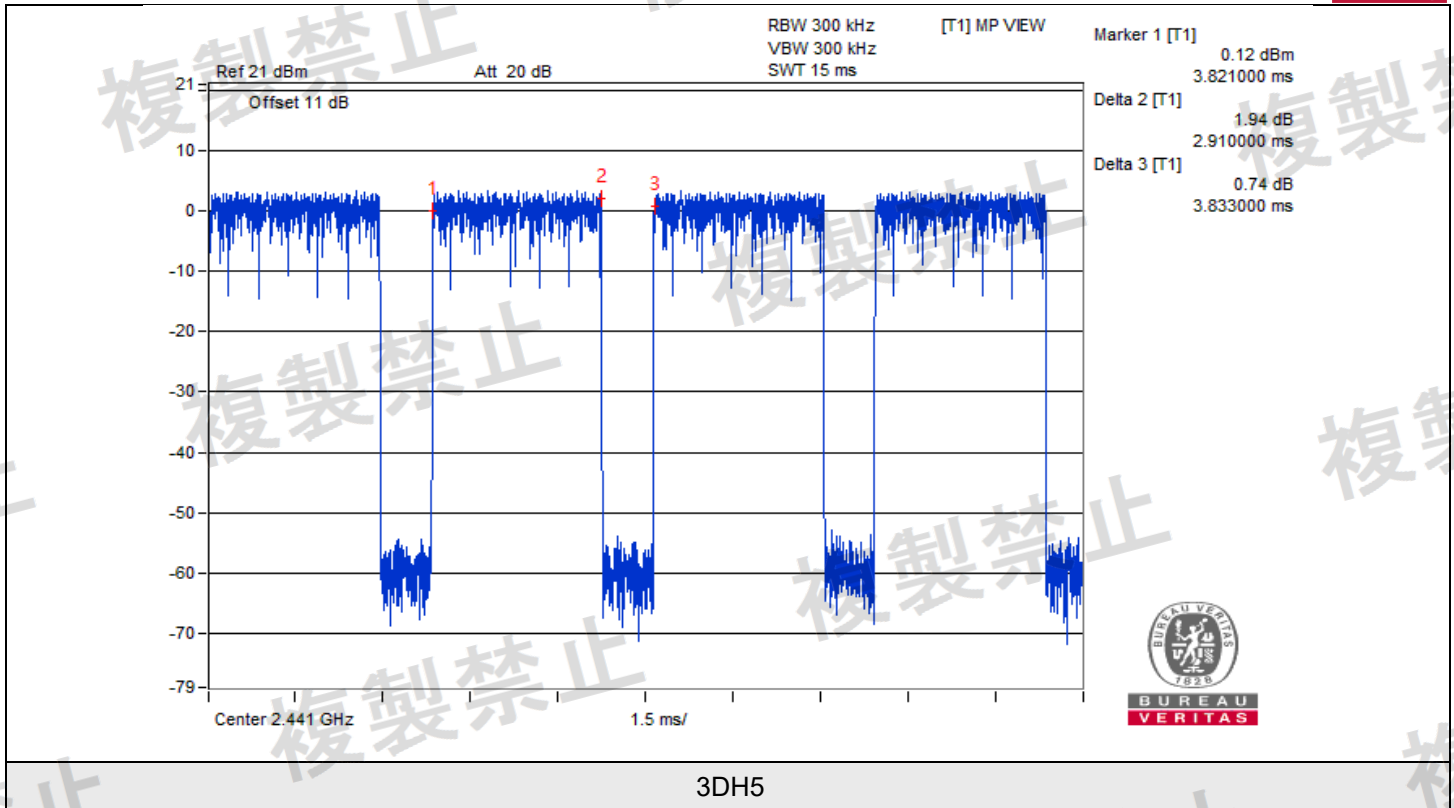
3DH1



3DH3



BUREAU
VERITAS



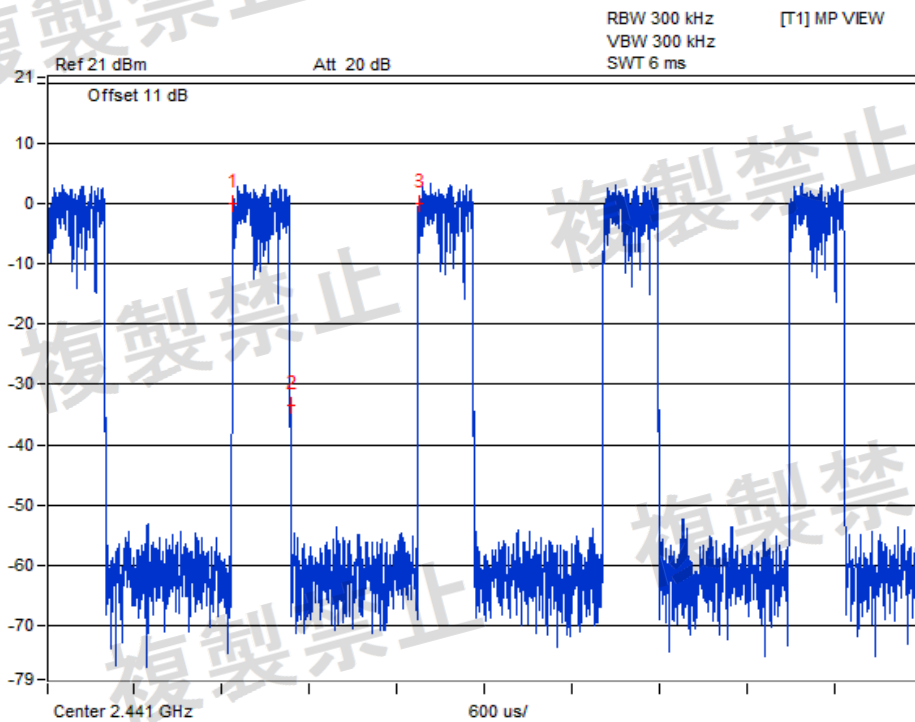
8DPSK: AFH Mode

Test Condition	Mode	Diffusion Rate	(Diffusion Rate/20)*0.4 sec	Duty Cycle	Dwell Time (msec)	Limit (msec)	Result
V _{normal}	3DH1	18.26	0.365	0.311	113.515	400	PASS
	3DH3	18.26	0.365	0.652	237.980	400	PASS
	3DH5	18.26	0.365	0.760	277.400	400	PASS
V _{max.}	3DH1	18.12	0.362	0.296	107.152	400	PASS
	3DH3	18.12	0.362	0.653	236.386	400	PASS
	3DH5	18.12	0.362	0.762	275.844	400	PASS
V _{min.}	3DH1	18.26	0.365	0.296	108.040	400	PASS
	3DH3	18.26	0.365	0.646	235.790	400	PASS
	3DH5	18.26	0.365	0.759	277.035	400	PASS

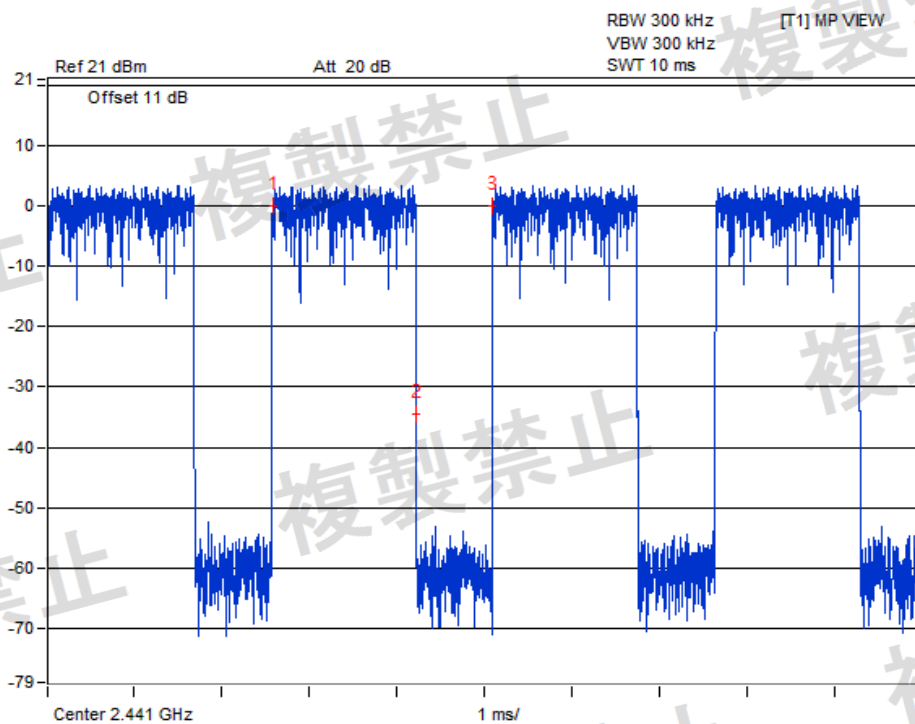


BUREAU
VERITAS

V_{normal}



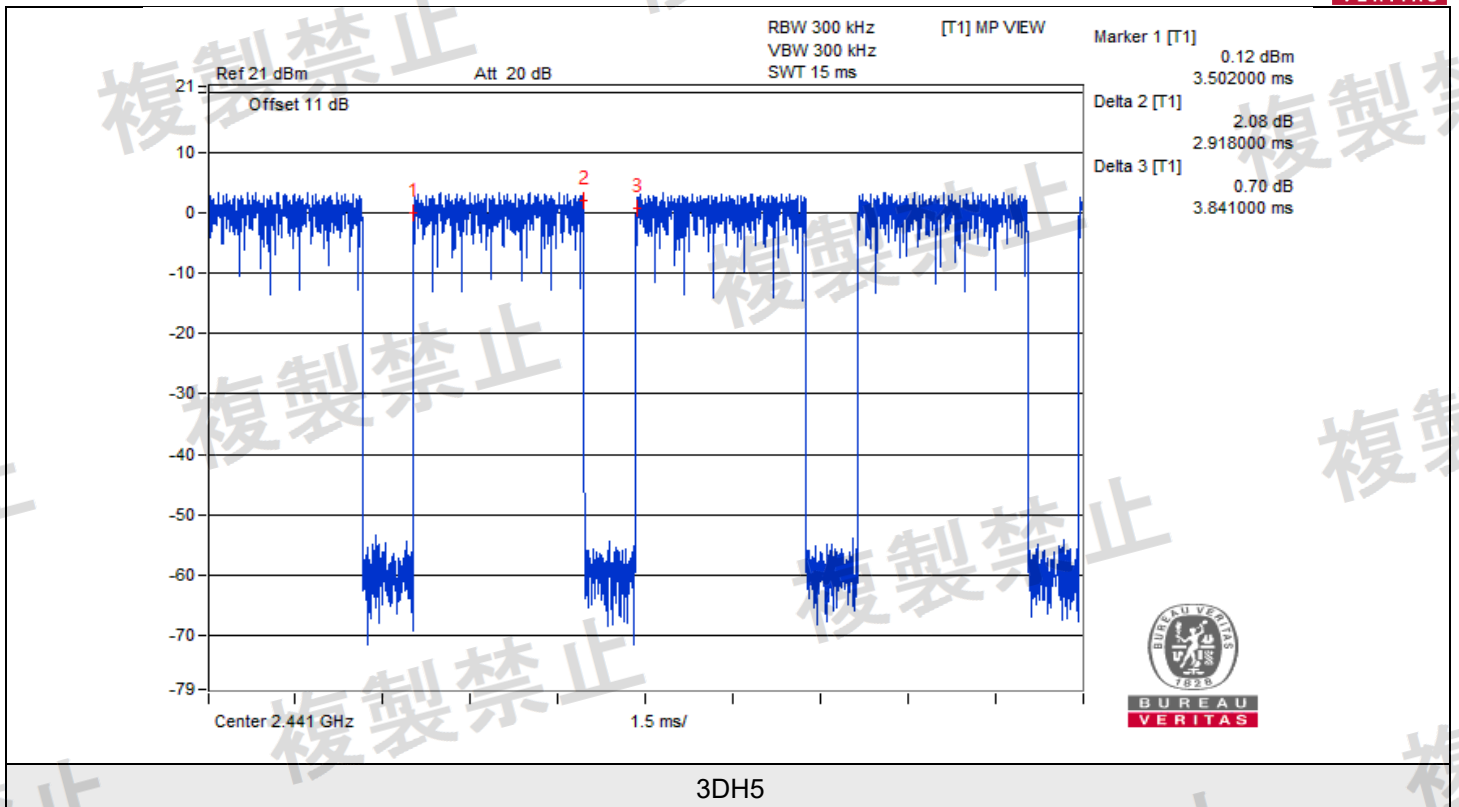
3DH1



3DH3



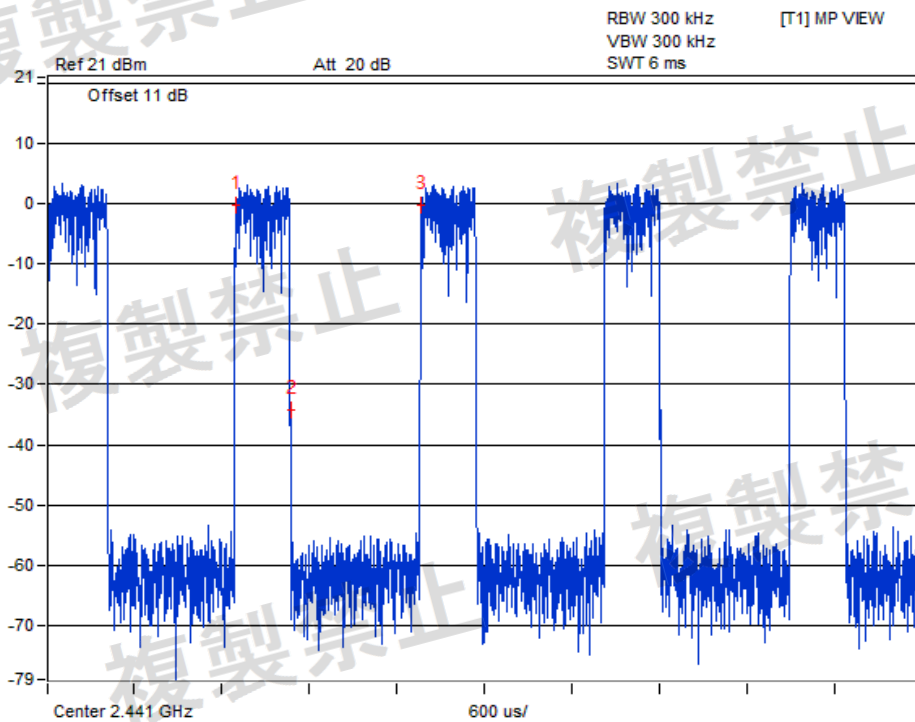
BUREAU
VERITAS



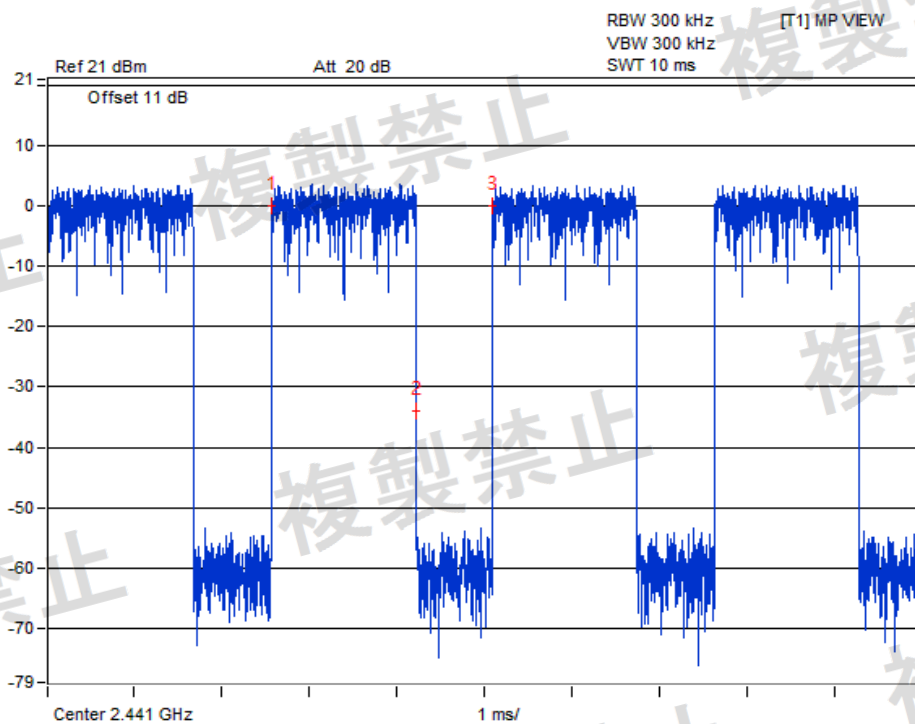


BUREAU
VERITAS

V_{max}.



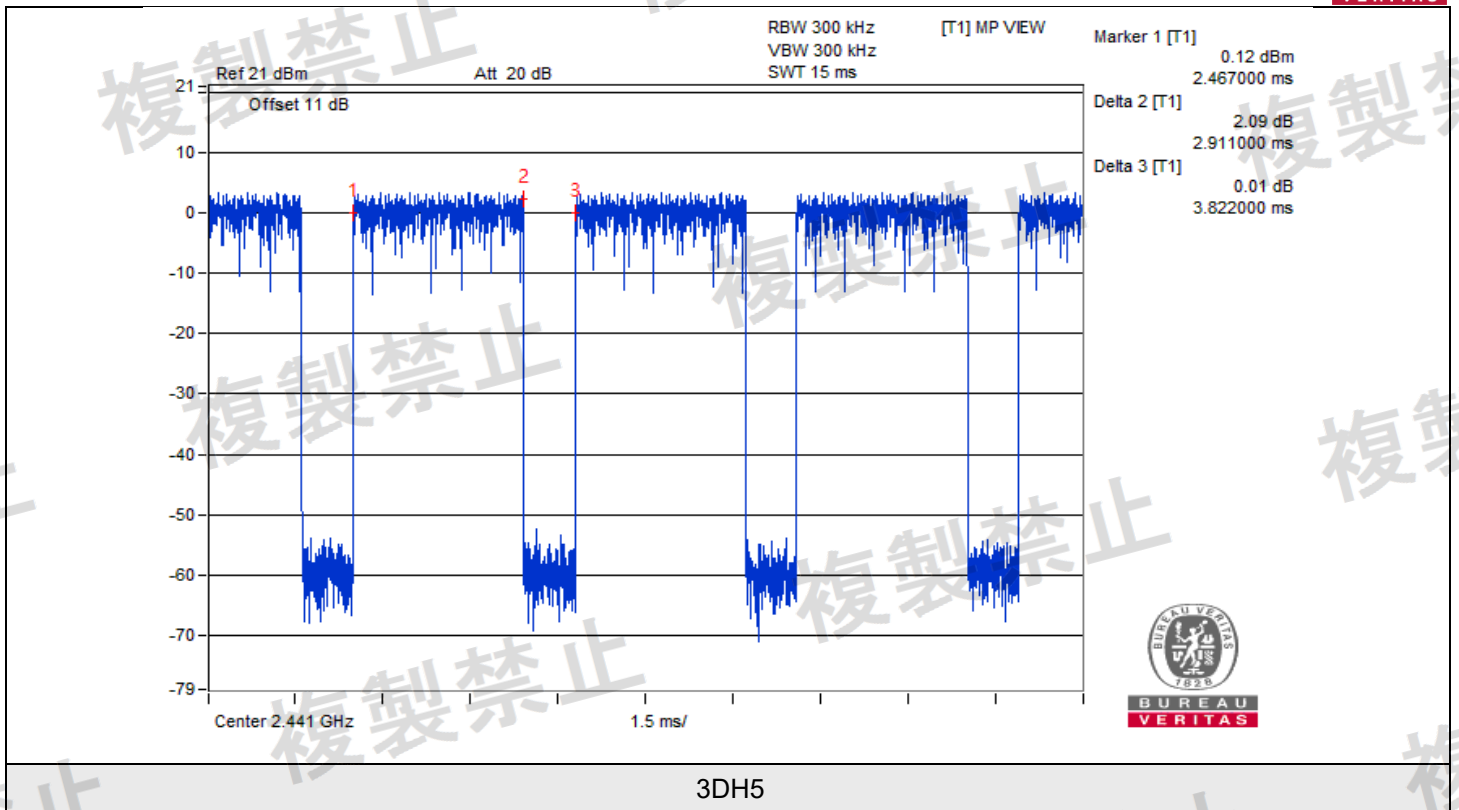
3DH1



3DH3



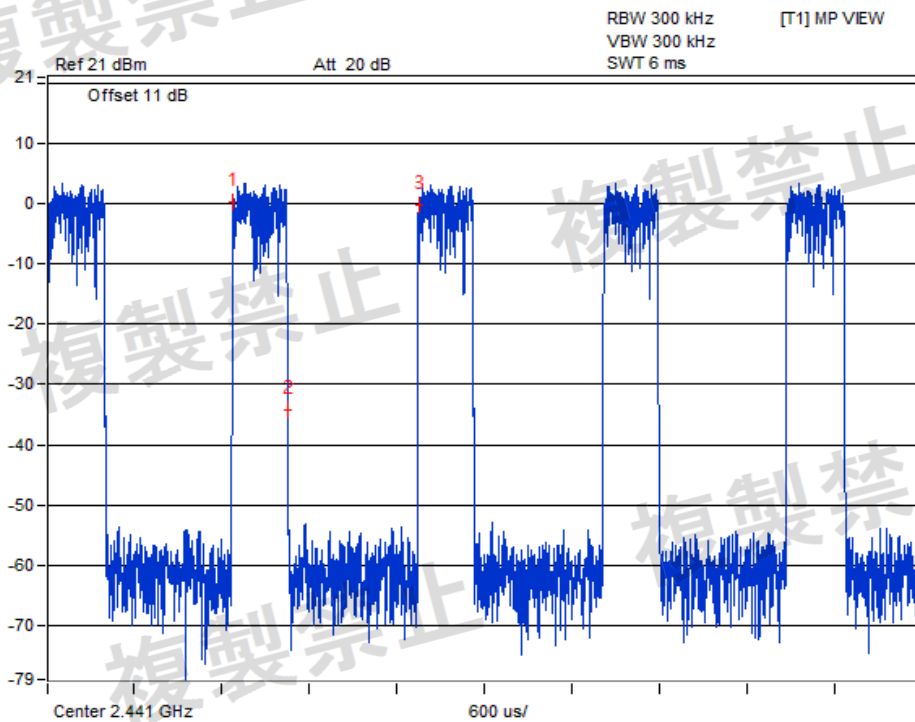
BUREAU
VERITAS



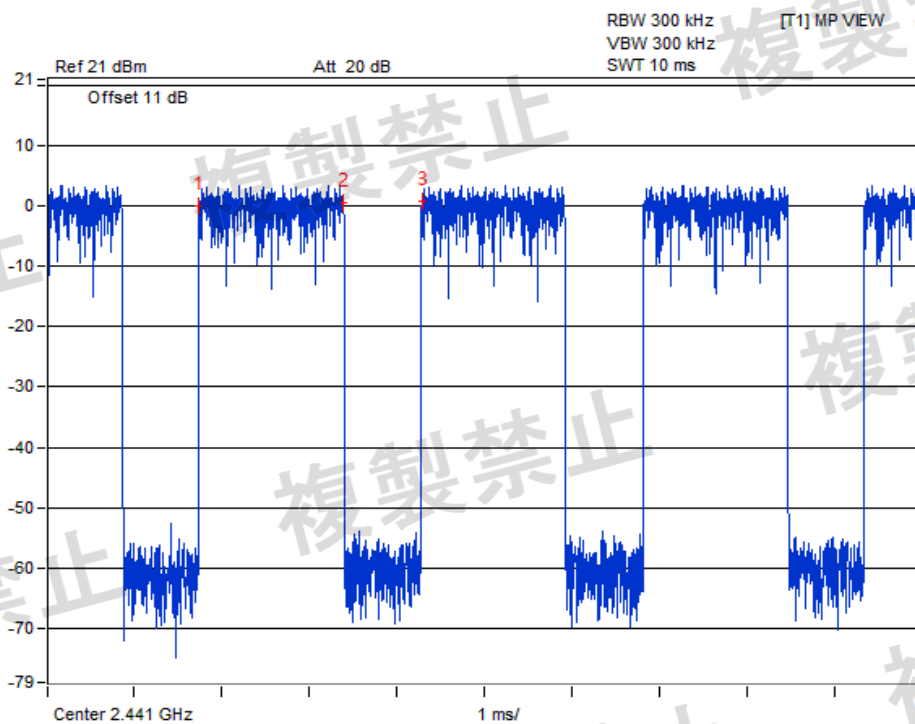


BUREAU
VERITAS

V_{min}.



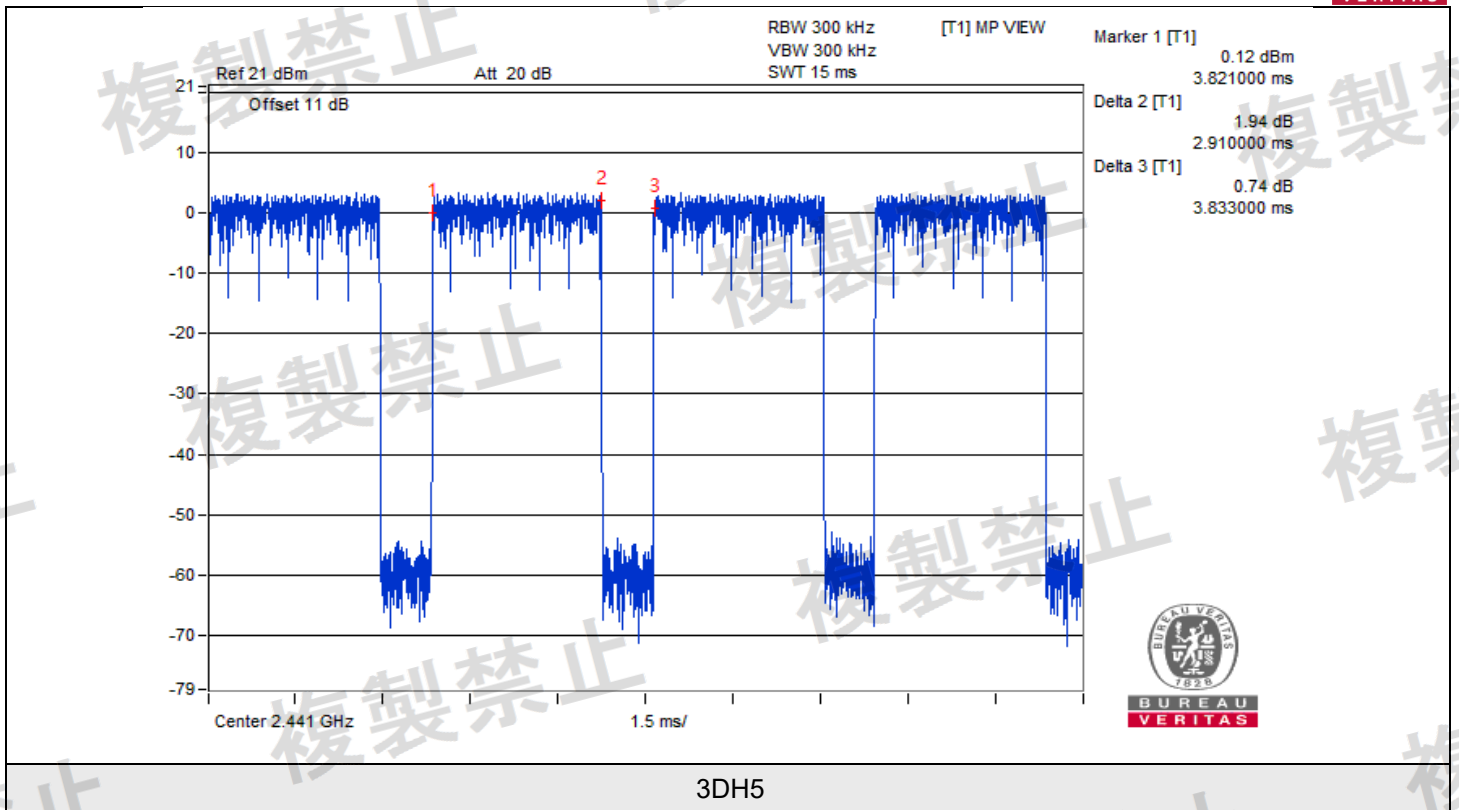
3DH1



3DH3



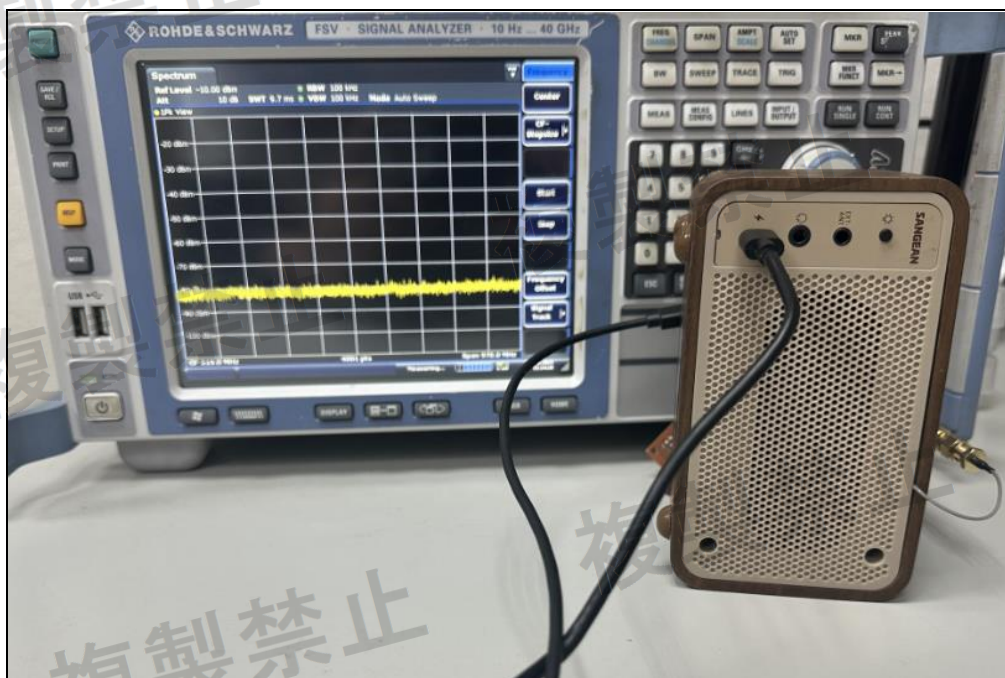
BUREAU
VERITAS



7.7 Interference Prevention Function

Environmental Conditions:	25°C, 60% RH	Tested By:	Pirar Hsieh
Link Mode		Test Result	
BT-EDR		Pass	

8 Pictures of Test Arrangements



9 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 according to ISO/IEC 17025.

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

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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