



JAPAN RADIO TEST REPORT

Applicant : Stone Co., Ltd.

Address : 8F., No. 89, Sec. 4, Chongxin Rd., Sanchong Dist.,
New Taipei City 241, Taiwan

Equipment : OT Button

Model No. : OTD-BTN-000

Trade Name : OTVerse

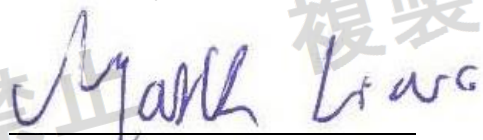
Output Power : 1Mbps: 8.16582 mW
2Mbps: 8.27942 mW
125kbps: 8.2794216 mW
500kbps: 8.3560302 mW

Carrier Sense : ☐Yes ☒No

I HEREBY CERTIFY THAT:

The sample was received on Jan. 13, 2026 and the testing was completed on Jan. 16, 2026 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:


Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
25120329-TRMIC01	Apr. 13, 2026	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

“MIC Notification No. 88, Appendix No. 43”

TELEC-T401 (2023-11):

- Item 19 of Article 2

Description	Result
. Frequency Error	Pass
. Occupied Bandwidth	Pass
. RF Output Power Tolerance	Pass
. Spurious Emissions (TX)	Pass
. Spurious Emissions (RX)	Pass
. Interference Prevention Function	Pass
. Angular Width of Principal Radiation	Pass
. Construction Protection Confirmation	Pass

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

* The following reference test guidance is not within the scope of accreditation of TAF.

-“MIC Notification No. 88, Appendix No. 43”

- Item 19 of Article 2



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	2400MHz-2483.5MHz
Center Frequency Range	2402MHz-2480MHz
Modulation Type	GFSK
Modulation Technology	DTS
Data Rate	1Mbps, 2Mbps 125kbps, 500kbps
Antenna Type	PCB Antenna
Antenna Gain	2.47 dBi
Battery	Maxell \ CR2032 \ 3V

Note: For more details, please refer to the User's manual of the EUT.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	*19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	*39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. An executive program, "PhyPlusKit Ver.: v2.5.2d" was executed to transmit and receive data via Bluetooth.
- b. The following test modes were performed for the test:

Test Mode	Operating Description
Test Mode 1	GFSK (1Mbps)
Test Mode 2	GFSK (2Mbps)
Test Mode 3	GFSK (125kbps)
Test Mode 4	GFSK (500kbps)

Modulation Type	TX CONFIGURATION
GFSK (1Mbps)	1TX
GFSK (2Mbps)	1TX
GFSK (125kbps)	1TX
GFSK (500kbps)	1TX

2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude 7490	N/A	Adapter / 1.8m / NS



2.5 General Information of Test

Organization	CerpPASS Technology Corp.		
Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881		
	FCC	TW1439, TW1079	
	ISED Company Number	4934E	
	ISED CAB identifier	TW1439	
Test Condition	Normal Voltage: 3 V Extreme Voltage: 3.3 V and 2.7 V		

Test Item	Test Site	Test Period	Environmental Conditions	Tested by
RF Conducted	RFCON01-NK	2026/01/14	25.2 °C / 52%	Bart Tsai
RF Conducted	RFCON01-NK	2026/01/15	24.8 °C / 53%	Bart Tsai
RF Conducted	RFCON01-NK	2026/01/16	25.3 °C / 56%	Bart Tsai

2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
Output power	±1.1dB
Unwanted Emissions Strength	±2.0dB
Bandwidth	±6.5%
Frequency tolerance	±0.31kHz
Dwell Time	±3.5%



3. Test Equipment and Ancillaries Used for Tests

Test Item	RF Conducted						
Test Site	RFCON01-NK						
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date	Calibration authority	Calibration method
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2025/03/03	2026/03/02	ETC	C
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11	ETC	C
Cable-0.5m (1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2025/06/06	2026/06/05	ETC	C
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11	ETC	C
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11	ETC	C
Switch Box	Theda	1-4	TW5451159	NA	NA	N/A	N/A

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).
- 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).



4. Transmitter Parameters

4.1 Frequency Error

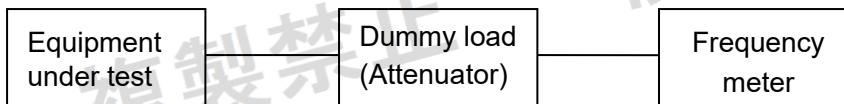
4.1.1 Test Limit

Limits: $\pm 50 \times 10^{-6}$, 50ppm

4.1.2 Test Procedures

According to Notification No. 88 of MIC, 2004, Annex 43, Test item frequency error measuring procedures.

4.1.3 Test Setup



4.1.4 Test Result and Data

BLE (GFSK-1Mbps/2Mbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Measured Frequency	MHz	2402.0493	2440.0499	2480.0505
Vmax			2401.9953	2439.9950	2479.9951
Vmin			2402.0499	2440.0504	2480.0511
Vnom	Frequency Error	ppm	20.52	20.45	20.36
Vmax			-1.96	-2.05	-1.98
Vmin			20.77	20.66	20.60



4.2 Occupied Bandwidth

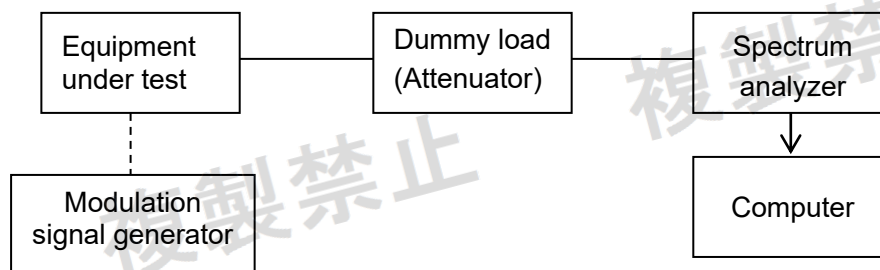
4.2.1 Test Limit

Modulation type	Occupied Band Width
FHSS、FHSS+DSSS、FHSS+OFDM	< 83.5 MHz
DSSS	< 26 MHz
OFDM	< 26 MHz 26 -40MHz
Other	< 26 MHz

4.2.2 Test Procedures

According to Notification No. 88 of MIC, 2004, Annex 43, test item occupied bandwidth and spreading bandwidth, measuring procedures.

4.2.3 Test Setup





4.2.4 Test Result and Data

BLE (GFSK-1Mbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Occupied Bandwidth	MHz	1.37	1.38	1.40
Vmax			1.38	1.39	1.41
Vmin			1.38	1.39	1.40

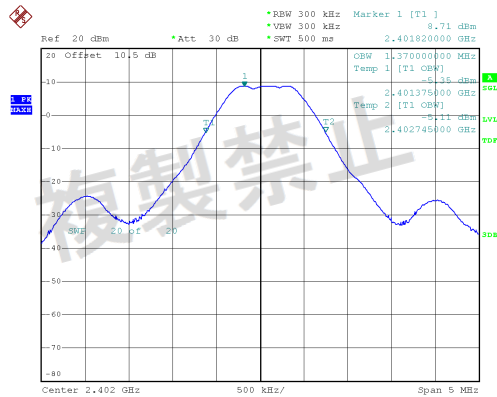
BLE (GFSK-2Mbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Occupied Bandwidth	MHz	2.19	2.19	2.20
Vmax			2.18	2.19	2.20
Vmin			2.19	2.19	2.20

BLE (GFSK-125kbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Occupied Bandwidth	MHz	1.38	1.39	1.41
Vmax			1.38	1.39	1.41
Vmin			1.38	1.37	1.41

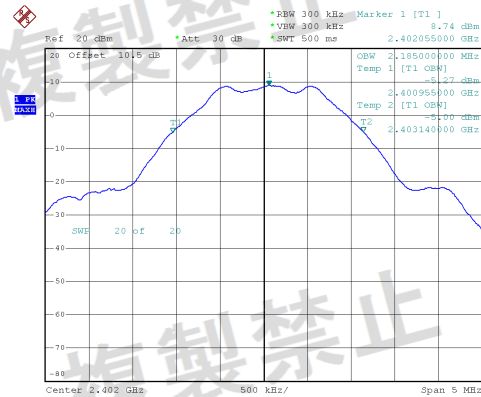
BLE (GFSK-500kbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Occupied Bandwidth	MHz	1.38	1.38	1.40
Vmax			1.37	1.38	1.40
Vmin			1.37	1.38	1.40



Vnom
Modulation Standard: GFSK-1Mbps, CH00

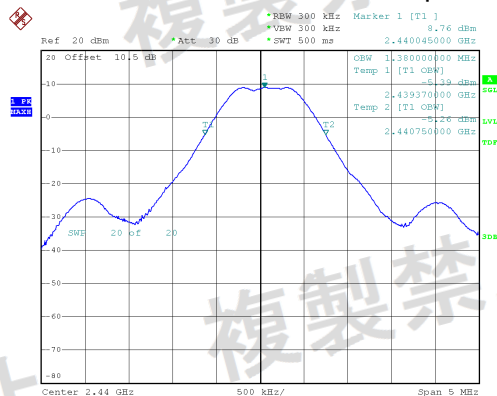


Vnom
Modulation Standard: GFSK-2Mbps, CH00



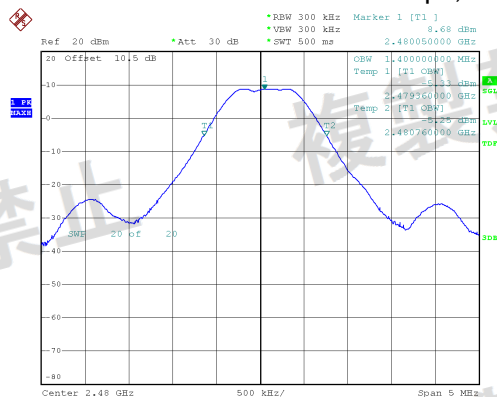
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Modulation Standard: GFSK-1Mbps, CH19



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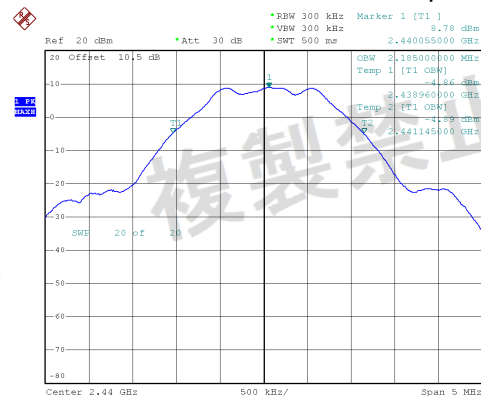
Modulation Standard: GFSK-1Mbps, CH39



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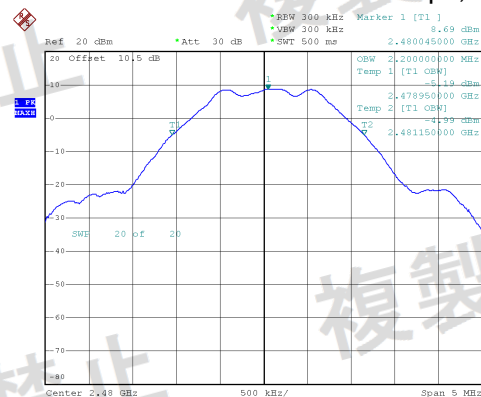
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Modulation Standard: GFSK-2Mbps, CH19



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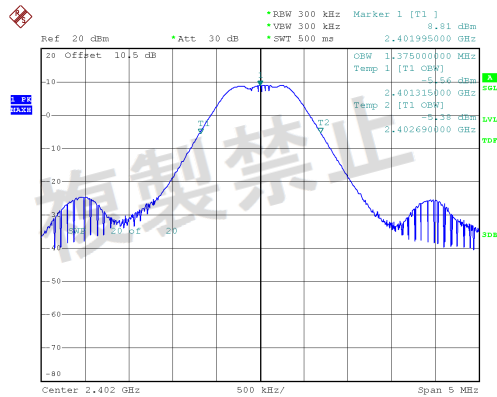
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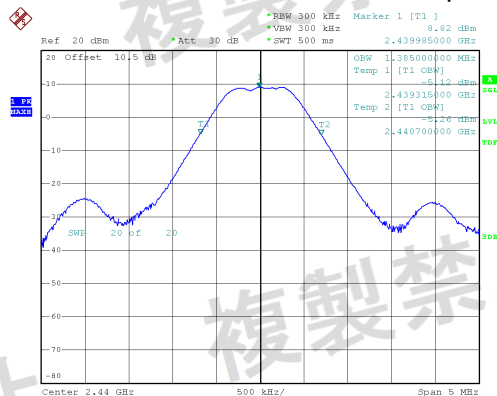


Vnom
Modulation Standard: GFSK-125kbps, CH00



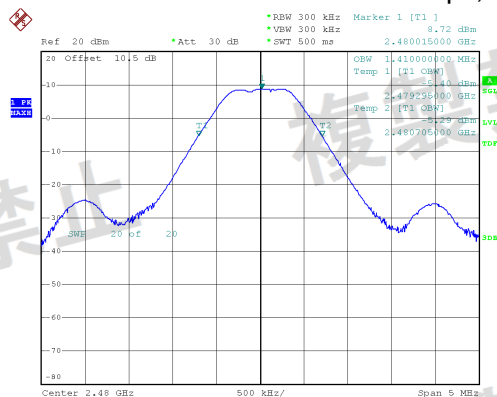
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Modulation Standard: GFSK-125kbps, CH19



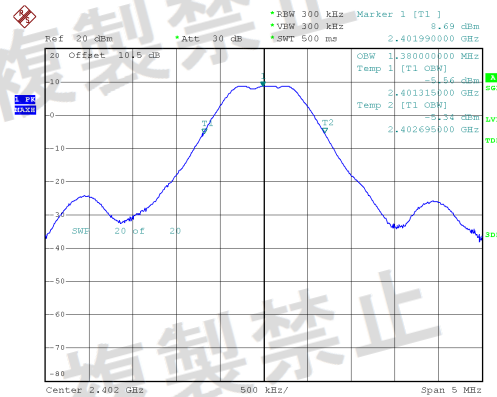
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Modulation Standard: GFSK-125kbps, CH39



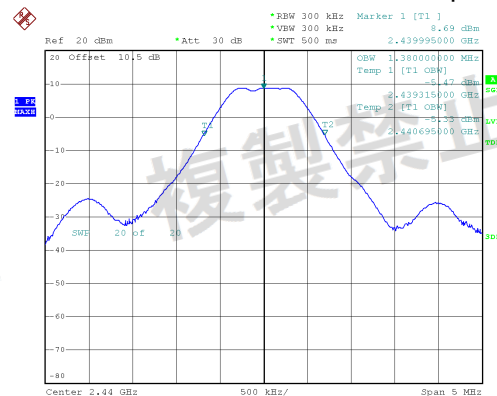
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Vnom
Modulation Standard: GFSK-500kbps, CH00



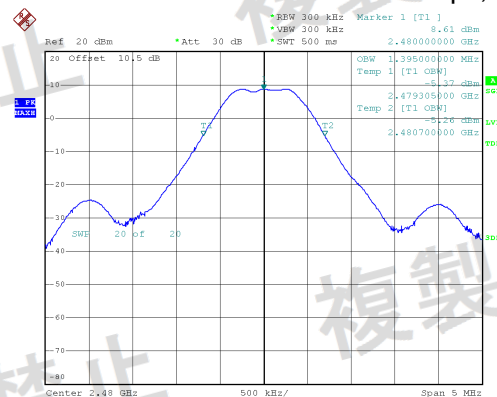
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Modulation Standard: GFSK-500kbps, CH19



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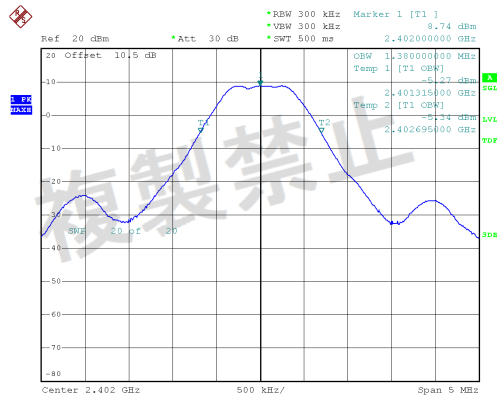
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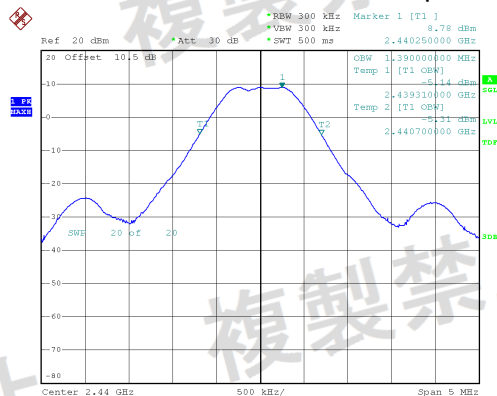


Vmax Modulation Standard: GFSK-1Mbps, CH00



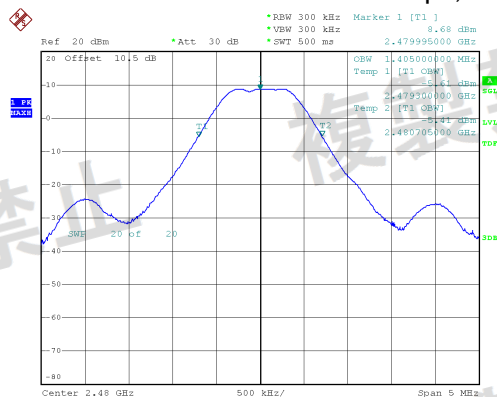
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Modulation Standard: GFSK-1Mbps, CH19



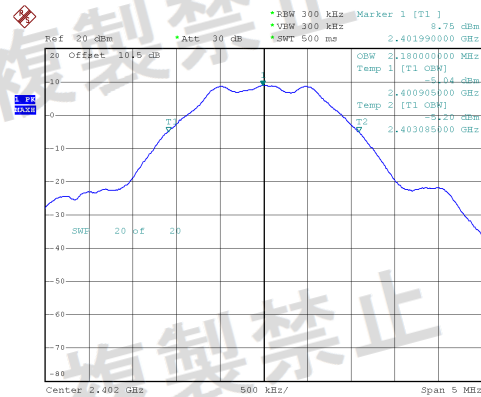
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Modulation Standard: GFSK-1Mbps, CH39



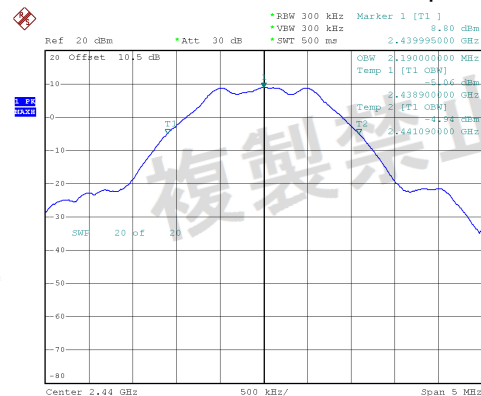
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Vmax Modulation Standard: GFSK-2Mbps, CH00



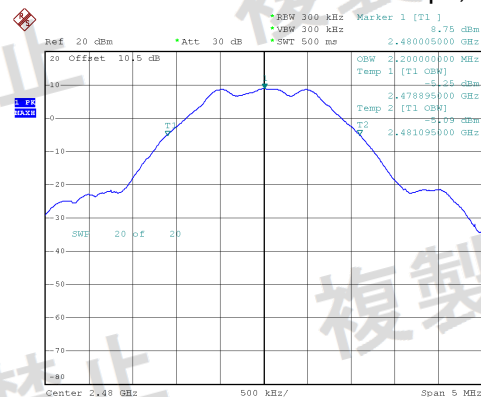
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Modulation Standard: GFSK-2Mbps, CH19



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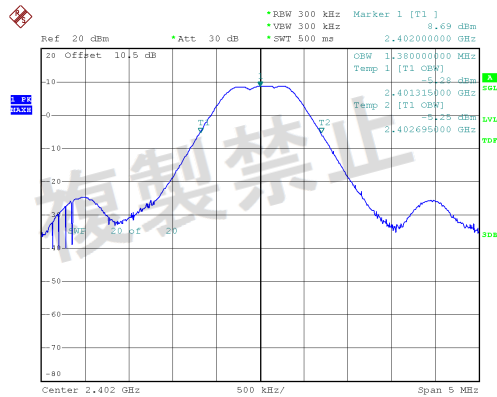
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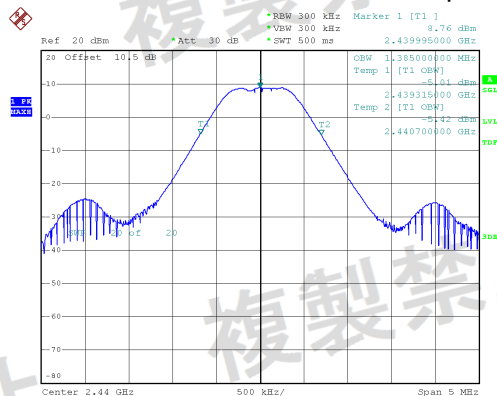


Vmax Modulation Standard: GFSK-125kbps, CH00



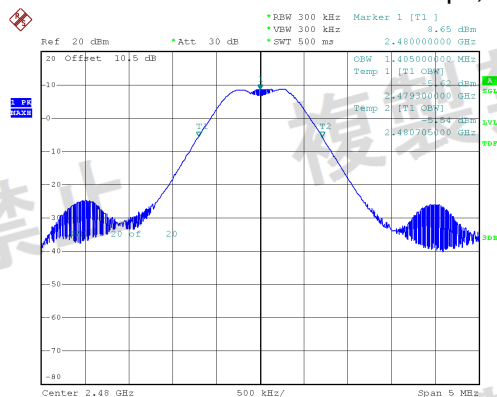
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Modulation Standard: GFSK-125kbps, CH19



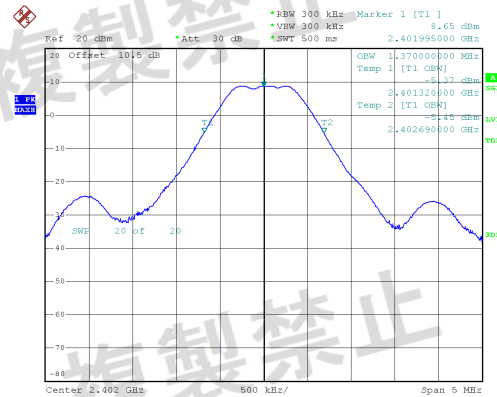
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Modulation Standard: GFSK-125kbps, CH39



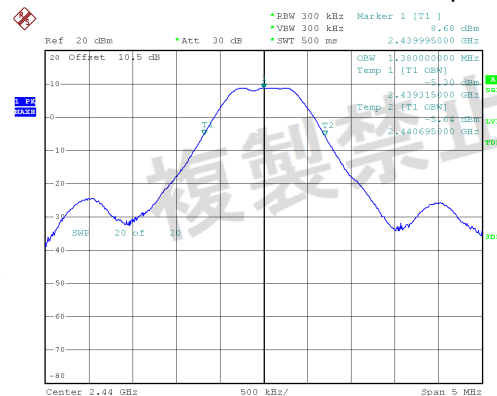
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Vmax Modulation Standard: GFSK-500kbps, CH00



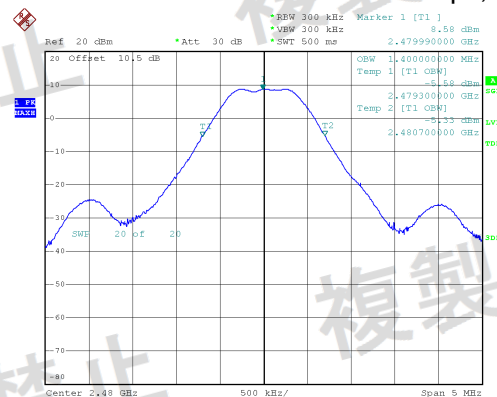
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Modulation Standard: GFSK-500kbps, CH19



Date: 15.JAN.2026 15:49:46

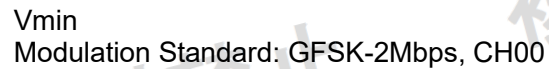
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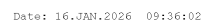
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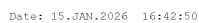
Vmin
Modulation Standard: GFSK-1Mbps, CH00



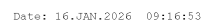
Modulation Standard: GFSK-1Mbps, CH19



Modulation Standard: GFSK-2Mbps, CH19



Modulation Standard: GFSK-1Mbps, CH39



Modulation Standard: GFSK-2Mbps, CH39



Cerpass Technology Corp.

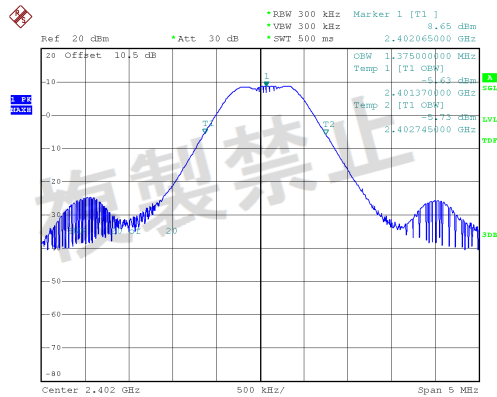
T-JV-505-0 Ver1.9

Issued Date : Apr. 13, 2026

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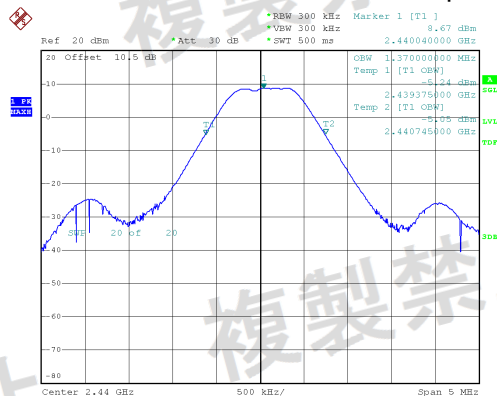


Vmin
Modulation Standard: GFSK-125kbps, CH00



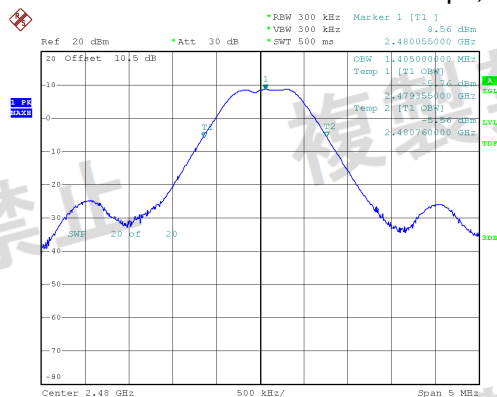
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Modulation Standard: GFSK-125kbps, CH19



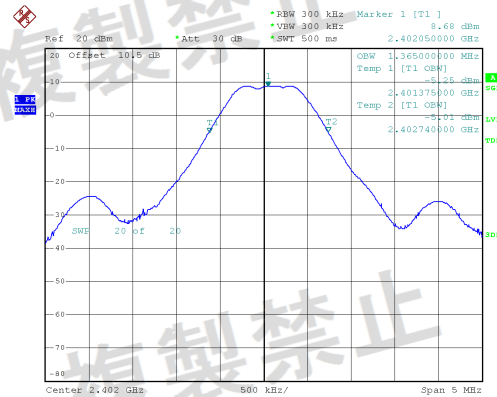
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Modulation Standard: GFSK-125kbps, CH39



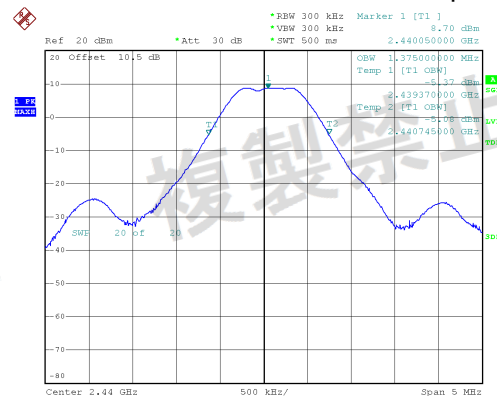
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Vmin
Modulation Standard: GFSK-500kbps, CH00



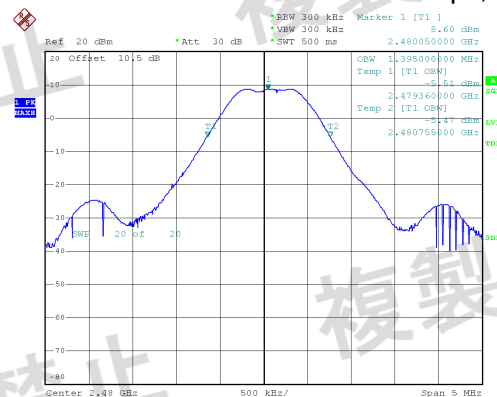
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Modulation Standard: GFSK-500kbps, CH19



Date: 16.JAN.2026 10:35:27

Modulation Standard: GFSK-500kbps, CH39



Date: 16.JAN.2026 10:40:31



4.3 RF Output Power Tolerance

4.3.1 Test Limit

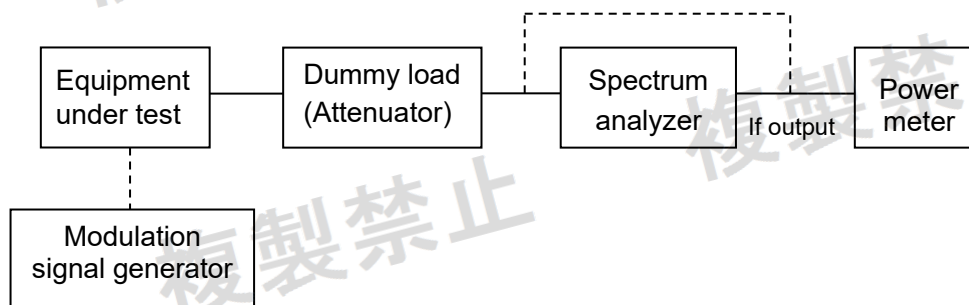
1. tolerance: +20 %
2. output power:

Modulation type	Occupied Band Width	output power
FHSS、FHSS+DSSS、FHSS+OFDM	< 83.5 MHz	< 10mW/MHz
DSSS	< 26 MHz	< 10mW/MHz
OFDM	< 26 MHz	< 10mW/MHz
	26 -40MHz	< 5mW/MHz
Other	< 26 MHz	< 10mW

4.3.2 Test Procedure

According to Notification No. 88 of MIC, 2004, Annex 43, test item antenna power error measuring procedure.

4.3.3 Test Setup



4.3.4 Declared Rated Power

1Mbps: 8.16582 mW
2Mbps: 8.27942 mW
125kbps: 8.2794216 mW
500kbps: 8.3560302 mW



4.3.5 Test Result and Data

BLE (GFSK-1Mbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Antenna Power	mW	8.0723503	8.09096	8.14704
Vmax			8.0723503	8.14704	8.16582
Vmin			8.1283052	8.10961	8.16582
Vnom	Antenna Power Error	%	-1.14	-0.92	-0.23
Vmax			-1.14	-0.23	0.00
Vmin			-0.46	-0.69	0.00

BLE (GFSK-2Mbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Antenna Power	mW	8.2224265	8.24138	8.12831
Vmax			8.2413812	8.27942	8.10961
Vmin			8.2224265	8.26038	8.18465
Vnom	Antenna Power Error	%	-0.69	-0.46	-1.83
Vmax			-0.46	0.00	-2.05
Vmin			-0.69	-0.23	-1.14

BLE (GFSK-125kbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Antenna Power	mW	8.2603795	8.22243	8.10961
Vmax			8.2794216	8.20352	8.14704
Vmin			8.2035154	8.22243	8.09096
Vnom	Antenna Power Error	%	-0.23	-0.69	-2.05
Vmax			0.00	-0.92	-1.60
Vmin			-0.92	-0.69	-2.28

BLE (GFSK-500kbps)					
Test Conditions					
Voltage	Test Frequency	MHz	2402	2440	2480
Vnom	Antenna Power	mW	8.3176377	8.27942	8.14704
Vmax			8.3560302	8.26038	8.12831
Vmin			8.3560302	8.27942	8.12831
Vnom	Antenna Power Error	%	-0.46	-0.92	-2.50
Vmax			0.00	-1.14	-2.73
Vmin			0.00	-0.92	-2.73



4.4 Spurious Emissions

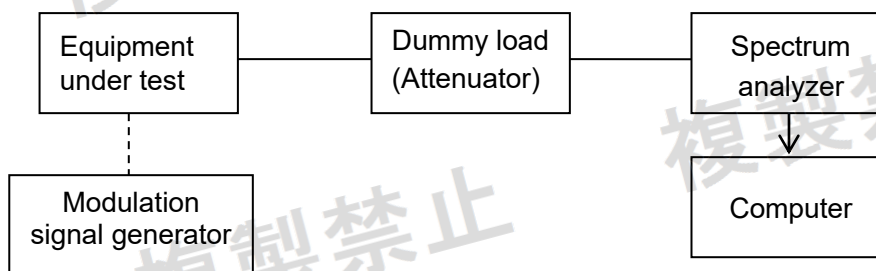
4.4.1 Test Limit

	Frequency Band (For 2400 ~ 2483.5 MHz)	Limit
*1	<2387MHz	2.5 μ W/MHz
*2	2387MHz ~ 2400MHz	25 μ W/MHz
*3	2483.5MHz ~ 2496.5MHz	25 μ W/MHz
*4	>2496.5MHz	2.5 μ W/MHz

4.4.2 Test Procedure

According to Notification No. 88 of MIC, 2004, Annex 43 Spurious and unwanted emission intensity measuring procedure.

4.4.3 Test Setup





4.4.4 Test Result and Data

BLE (GFSK-1Mbps)

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 2387MHz	Unwanted Emission Frequency	MHz	2386.71	1743.54	2383.76
Vmax				2386.12	2376.39	2384.05
Vmin				2386.41	2376.39	2384.44
Vnom	2387MHz ~ 2400MHz		MHz	2400.00	2392.32	2399.93
Vmax				2400.00	2391.88	2399.94
Vmin				2400.00	2391.89	2399.96
Vnom	2483.5MHz ~ 2496.5MHz		MHz	2489.90	2487.78	2483.51
Vmax				2490.13	2487.75	2484.03
Vmin				2489.87	2487.90	2483.50
Vnom	2496.5MHz ~ 12500MHz		MHz	7206.90	7319.44	7440.73
Vmax				7205.65	7320.69	7439.48
Vmin				7205.65	7319.44	7439.48
Vnom	30MHz ~ 2387MHz	Unwanted Emission Intensity	μW/MHz	0.2223	0.0531	0.0339
Vmax				0.2203	0.0483	0.0369
Vmin				0.1910	0.0480	0.0347
Vnom	2387MHz ~ 2400MHz		μW/MHz	8.9331	0.0472	0.0242
Vmax				11.1686	0.0426	0.0241
Vmin				10.7399	0.0447	0.0211
Vnom	2483.5MHz ~ 2496.5MHz		μW/MHz	0.0159	0.0771	1.4521
Vmax				0.0108	0.0830	1.2853
Vmin				0.0126	0.0885	1.2589
Vnom	2496.5MHz ~ 12500MHz		μW/MHz	0.4018	0.3715	0.3750
Vmax				0.4732	0.4335	0.3656
Vmin				0.4217	0.3963	0.3404

*The test result calculated as follows:

$$\mu W = 10^{(\text{Measurement Value(dBm)}/10)} * 1000$$

**BLE (GFSK-2Mbps)**

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 2387MHz	Unwanted Emission Frequency	MHz	1764.75	2376.69	2384.64
Vmax				2385.82	2376.39	2384.35
Vmin				2385.82	2376.69	2384.35
Vnom	2387MHz ~ 2400MHz		MHz	2400.00	2391.55	2399.84
Vmax				2400.00	2391.79	2399.86
Vmin				2400.00	2391.72	2399.79
Vnom	2483.5MHz ~ 2496.5MHz		MHz	2485.56	2487.79	2483.50
Vmax				2489.62	2487.67	2483.50
Vmin				2483.57	2487.66	2483.50
Vnom	2496.5MHz ~ 12500MHz		MHz	7208.15	7321.94	7441.98
Vmax				7206.90	7318.19	7440.73
Vmin				7204.40	7321.94	7439.48
Vnom	30MHz ~ 2387MHz	Unwanted Emission Intensity	μW/MHz	0.5321	0.0416	0.0366
Vmax				0.1820	0.0454	0.0357
Vmin				0.1936	0.0421	0.0339
Vnom	2387MHz ~ 2400MHz		μW/MHz	10.8643	0.0414	0.0244
Vmax				13.2434	0.0459	0.0218
Vmin				11.0917	0.0428	0.0243
Vnom	2483.5MHz ~ 2496.5MHz		μW/MHz	0.0157	0.0774	2.6730
Vmax				0.0147	0.0830	2.3281
Vmin				0.0124	0.0738	2.5645
Vnom	2496.5MHz ~ 12500MHz		μW/MHz	0.4111	0.3319	0.3581
Vmax				0.4989	0.3715	0.3589
Vmin				0.4315	0.3724	0.3381

*The test result calculated as follows:

$$\mu W = 10^{(\text{Measurement Value(dBm)}/10)} * 1000$$

**BLE (GFSK-125kbps)**

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 2387MHz	Unwanted Emission Frequency	MHz	2386.71	2376.10	2384.35
Vmax				2386.71	2344.28	2384.35
Vmin				2386.12	1759.45	2384.64
Vnom	2387MHz ~ 2400MHz		MHz	2399.99	2391.84	2399.85
Vmax				2400.00	2391.89	2399.96
Vmin				2400.00	2392.28	2399.89
Vnom	2483.5MHz ~ 2496.5MHz		MHz	2487.96	2487.88	2483.51
Vmax				2491.54	2487.78	2483.51
Vmin				2489.88	2487.85	2483.51
Vnom	2496.5MHz ~ 12500MHz		MHz	7206.90	7319.44	7439.48
Vmax				7205.65	7320.69	7439.48
Vmin				7206.90	7320.69	7439.48
Vnom	30MHz ~ 2387MHz	Unwanted Emission Intensity	μW/MHz	0.1393	0.0361	0.0303
Vmax				0.1596	0.0281	0.0310
Vmin				0.1862	0.0526	0.0341
Vnom	2387MHz ~ 2400MHz		μW/MHz	14.4544	0.0432	0.0223
Vmax				14.1906	0.0430	0.0204
Vmin				11.3763	0.0449	0.0232
Vnom	2483.5MHz ~ 2496.5MHz		μW/MHz	0.0126	0.0740	1.3397
Vmax				0.0120	0.0731	1.2677
Vmin				0.0104	0.0719	1.4223
Vnom	2496.5MHz ~ 12500MHz		μW/MHz	0.4721	0.4130	0.3681
Vmax				0.4074	0.4046	0.3412
Vmin				0.3972	0.3707	0.3350

*The test result calculated as follows:

$$\mu W = 10^{(\text{Measurement Value(dBm)}/10)} * 1000$$

**BLE (GFSK-500kbps)**

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 2387MHz	Unwanted Emission Frequency	MHz	2385.82	1732.64	1729.10
Vmax				2386.41	2376.10	2384.44
Vmin				2386.71	2344.28	2384.44
Vnom	2387MHz ~ 2400MHz		MHz	2400.00	2392.00	2399.87
Vmax				2400.00	2392.09	2399.79
Vmin				2399.99	2392.01	2399.95
Vnom	2483.5MHz ~ 2496.5MHz		MHz	2494.11	2487.85	2483.50
Vmax				2493.74	2487.78	2483.51
Vmin				2493.95	2467.89	2483.50
Vnom	2496.5MHz ~ 12500MHz		MHz	7206.90	7320.69	7440.73
Vmax				7206.90	7320.69	7440.73
Vmin				7205.65	7319.44	7439.48
Vnom	30MHz ~ 2387MHz	Unwanted Emission Intensity	μW/MHz	0.1503	0.9550	0.1459
Vmax				0.1738	0.0339	0.0374
Vmin				0.1687	0.0331	0.0283
Vnom	2387MHz ~ 2400MHz		μW/MHz	9.8401	0.0415	0.0218
Vmax				9.6828	0.0442	0.0194
Vmin				7.7090	0.0413	0.0198
Vnom	2483.5MHz ~ 2496.5MHz		μW/MHz	0.0125	0.0746	1.2882
Vmax				0.0110	0.0767	1.2474
Vmin				0.0123	0.0719	1.1169
Vnom	2496.5MHz ~ 12500MHz		μW/MHz	0.4842	0.4036	0.3499
Vmax				0.4227	0.3926	0.3631
Vmin				0.3524	0.3540	0.3162

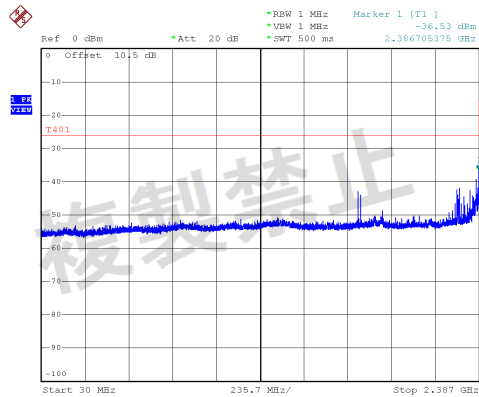
*The test result calculated as follows:

$$\mu W = 10^{(\text{Measurement Value(dBm)}/10)} * 1000$$

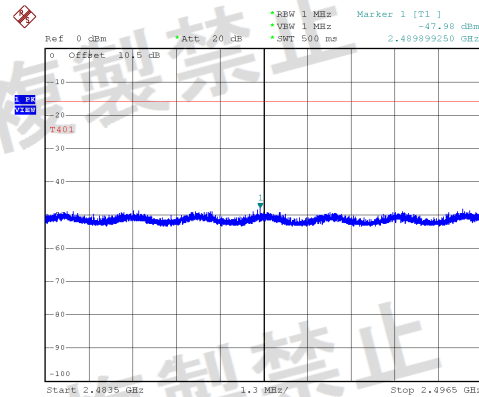


Vnom

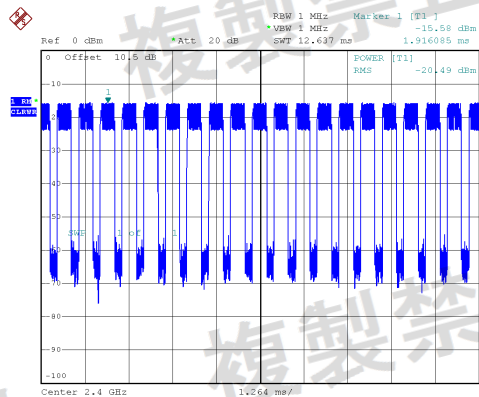
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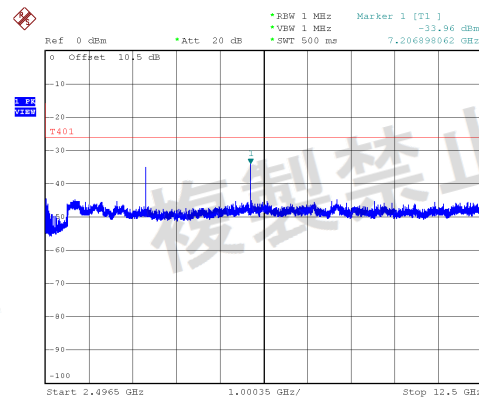
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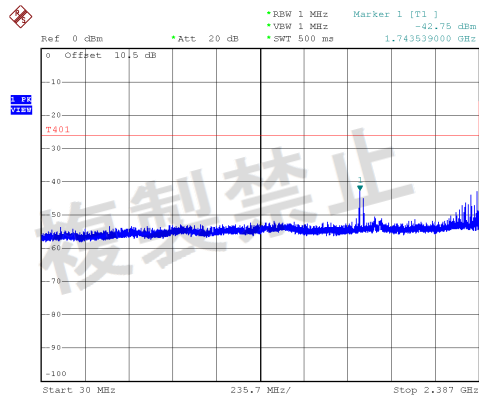


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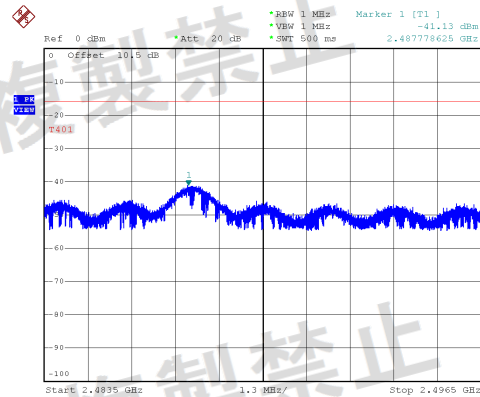


Vnom

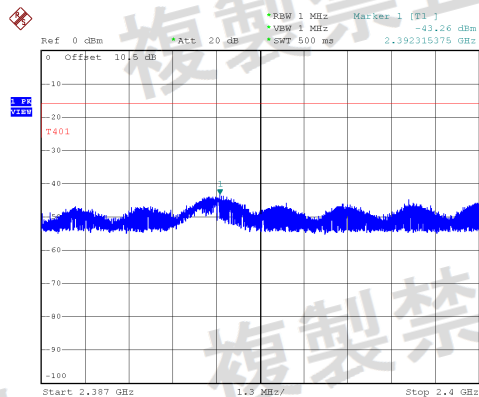
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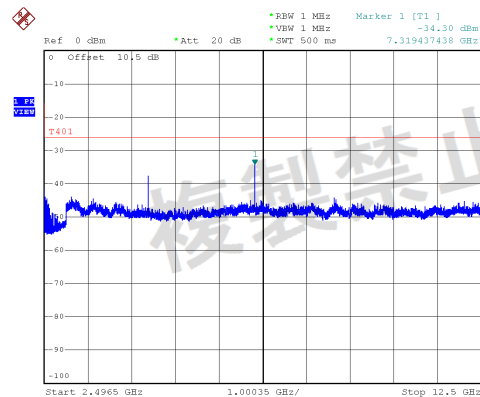
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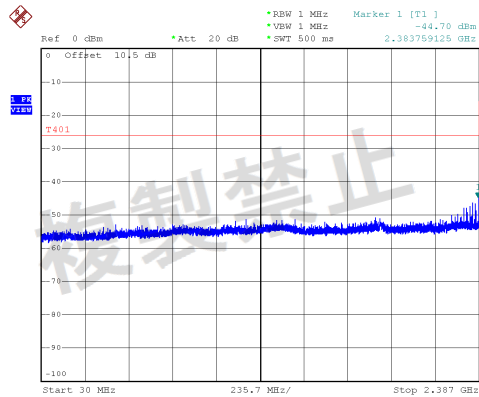


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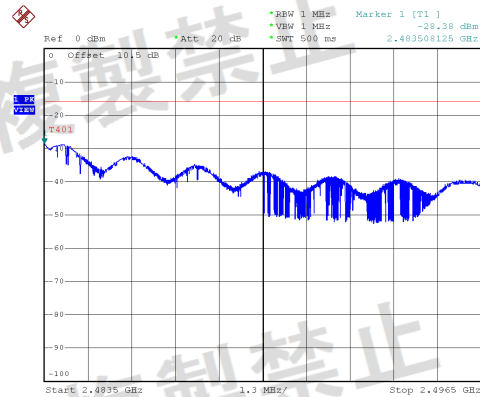


Vnom

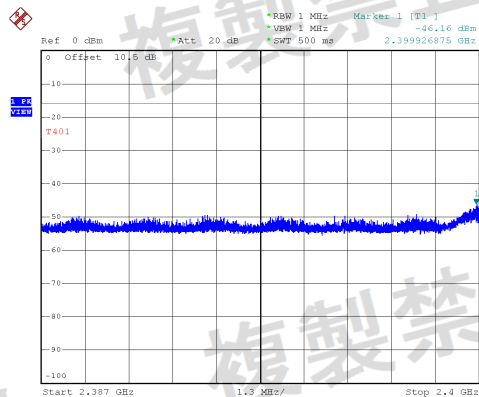
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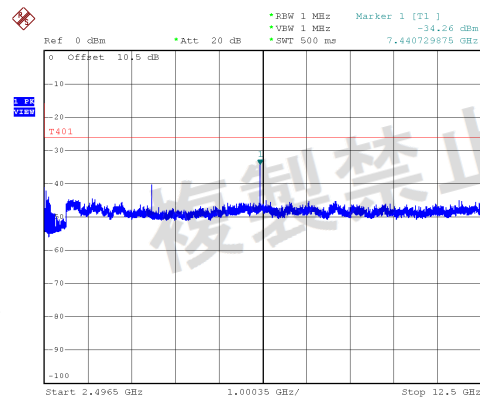
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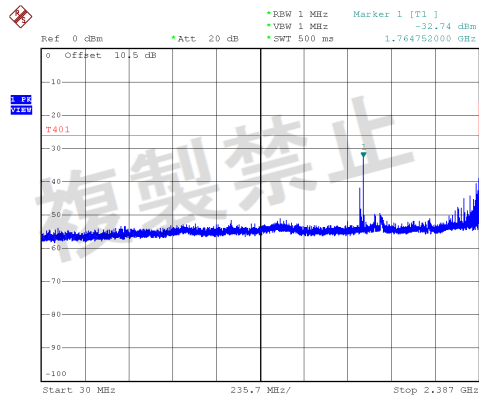


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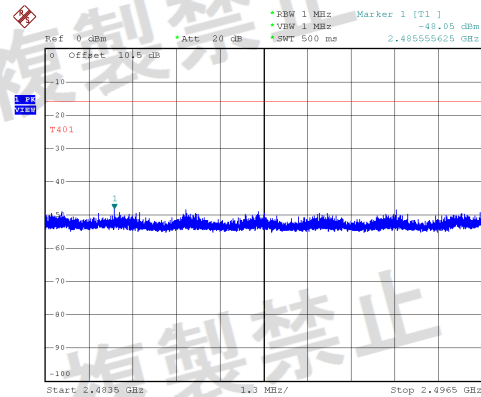


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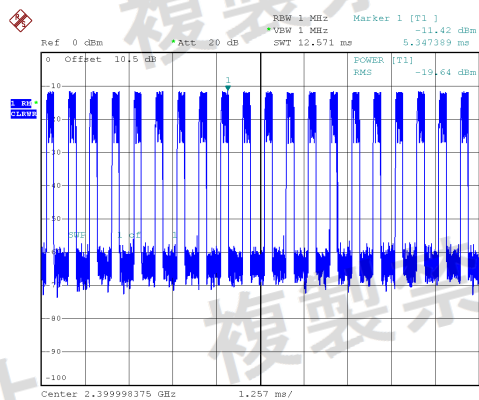
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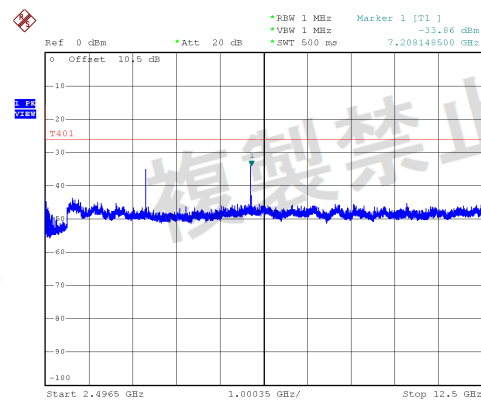
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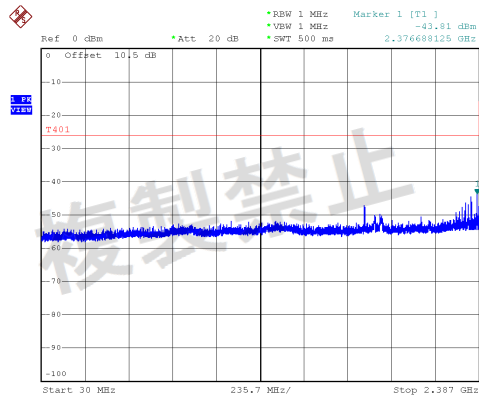


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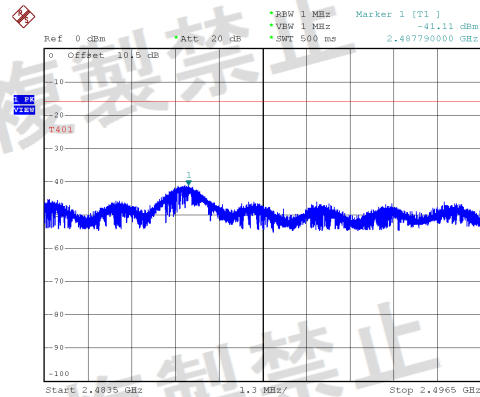


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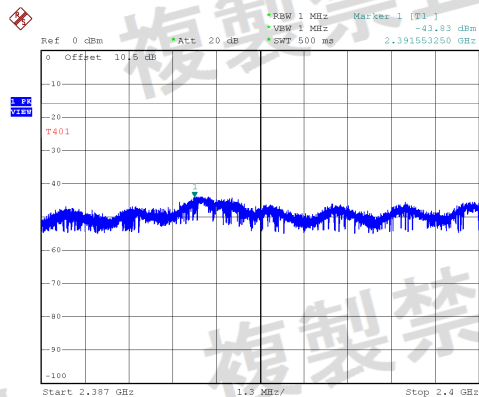
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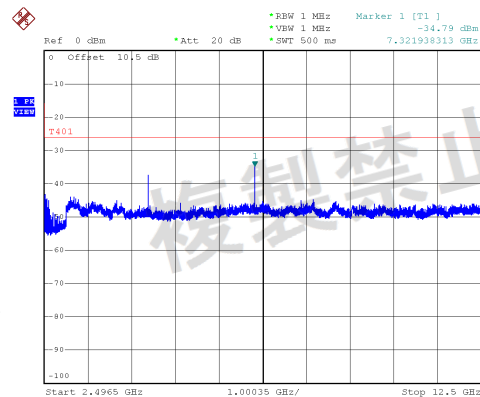
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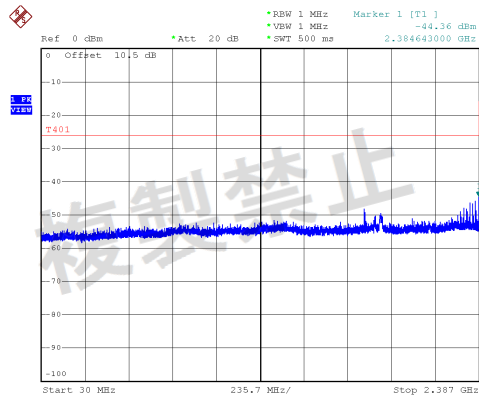


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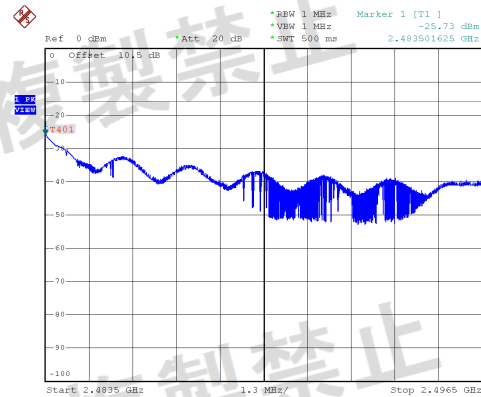


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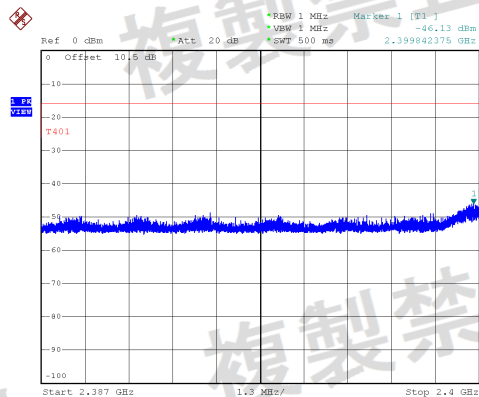
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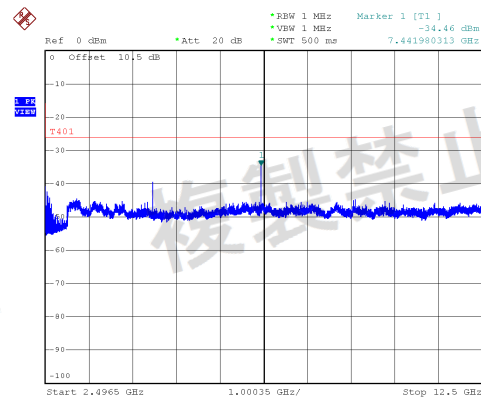
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Date: 14.JAN.2026 15:57:46

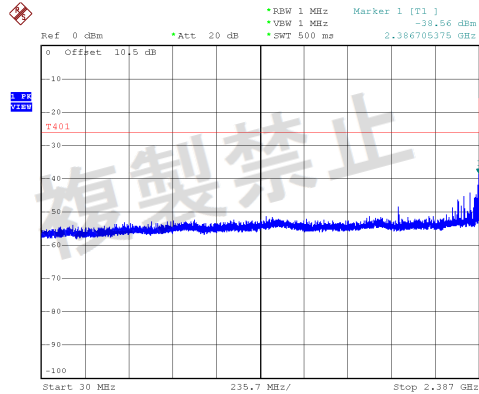


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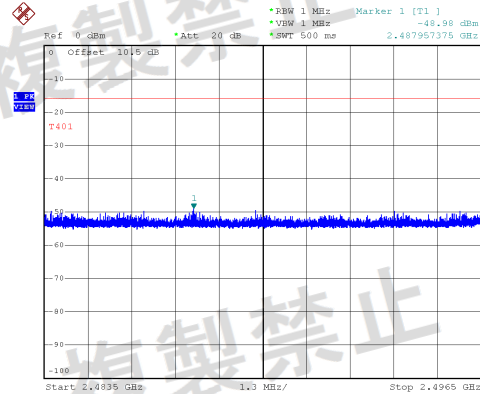


Vnom

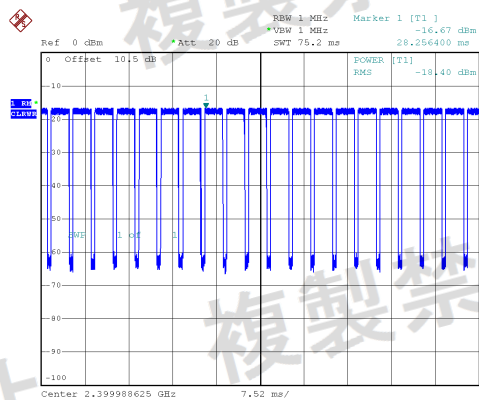
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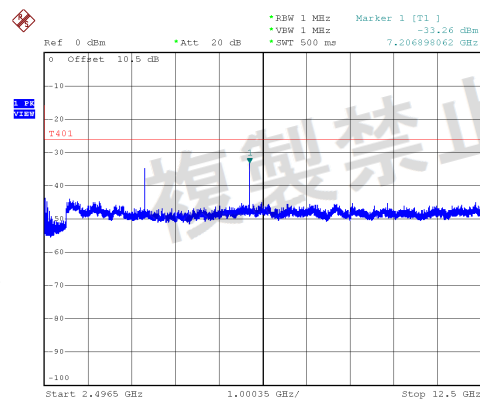
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Date: 15.JAN.2026 08:52:35

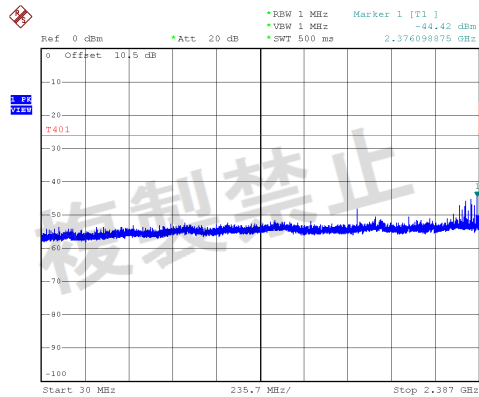


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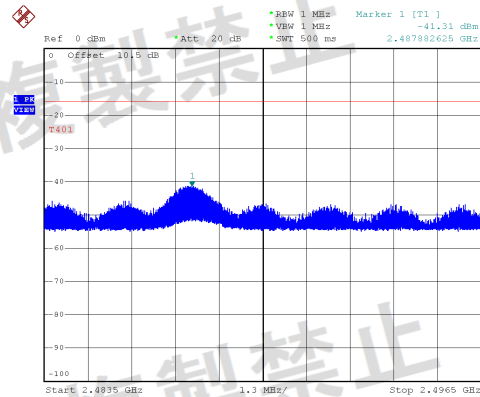


Vnom

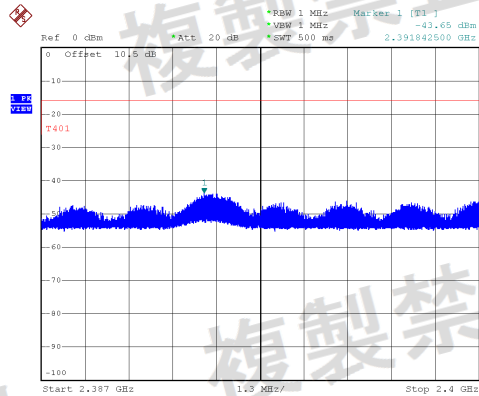
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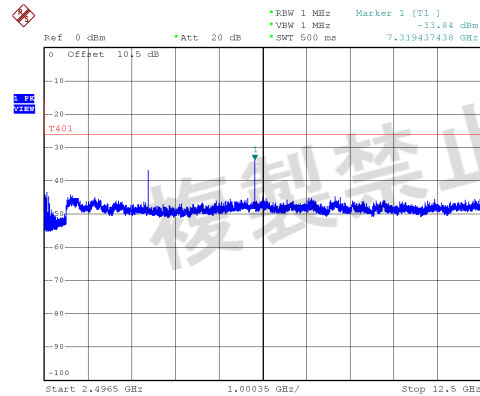
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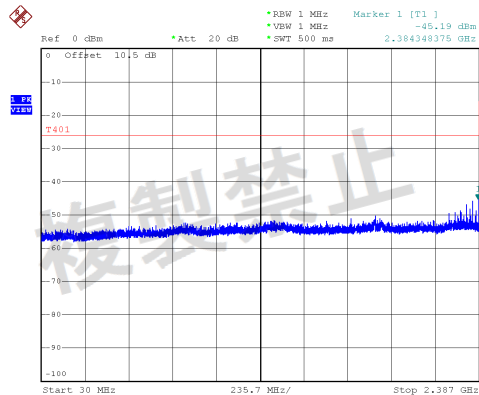


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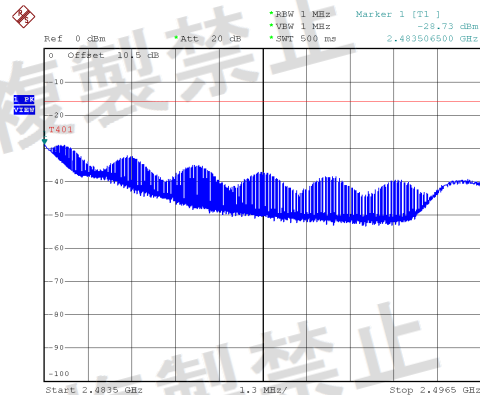


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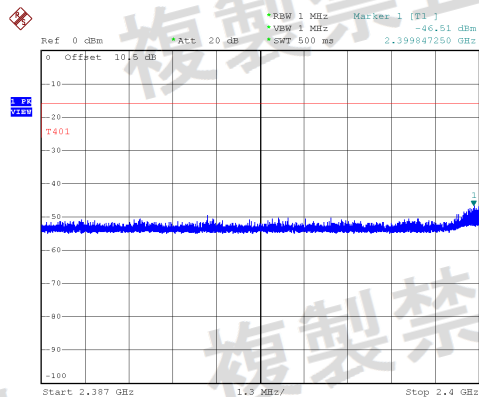
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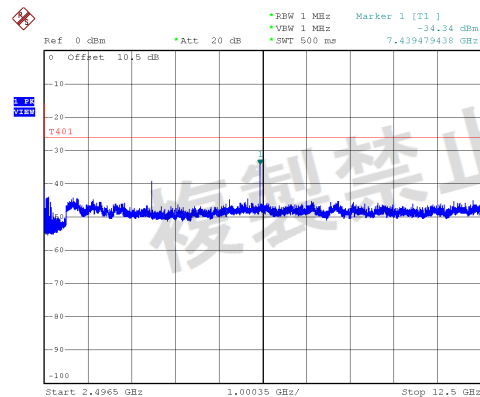
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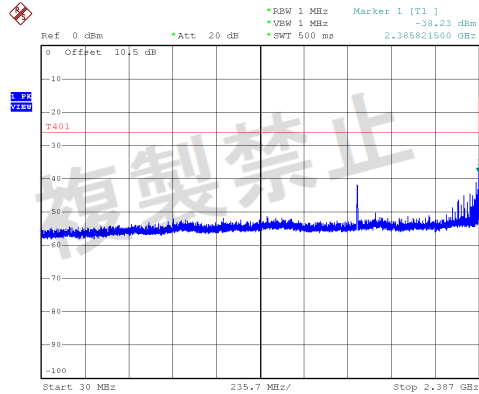


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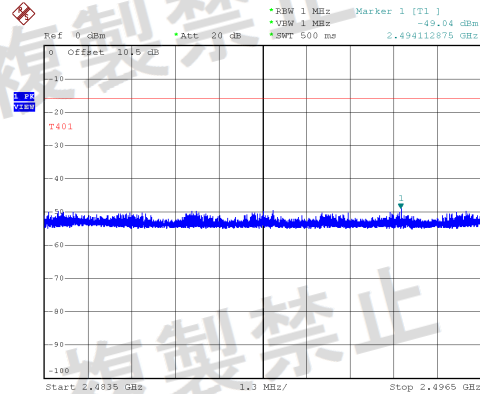


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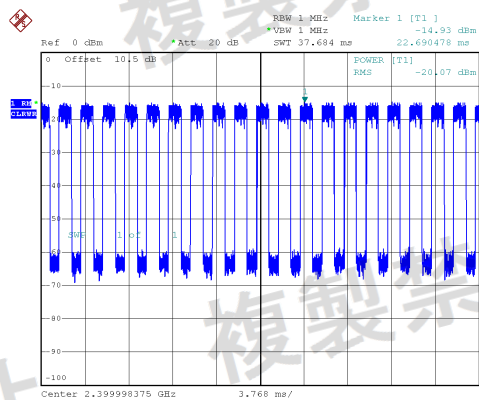
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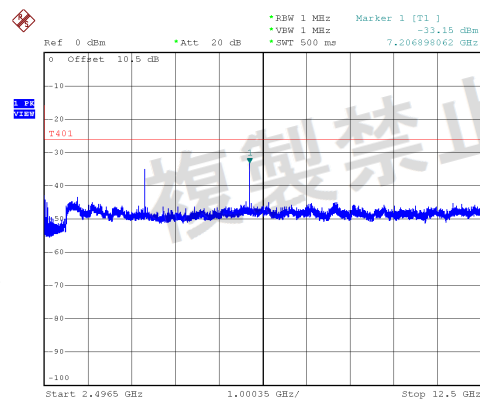
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Date: 15.JAN.2026 09:46:45

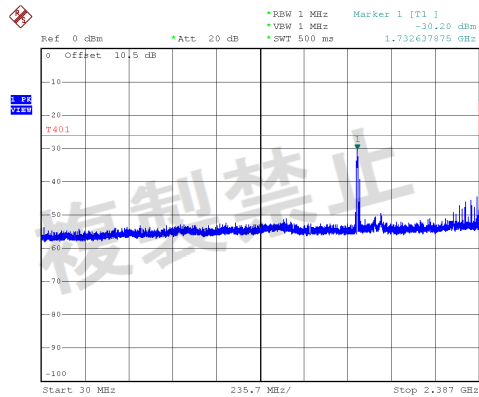


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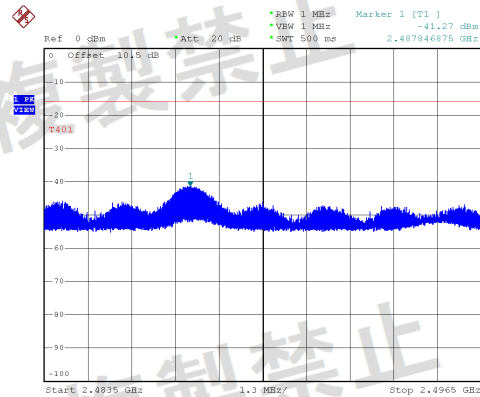


Vnom

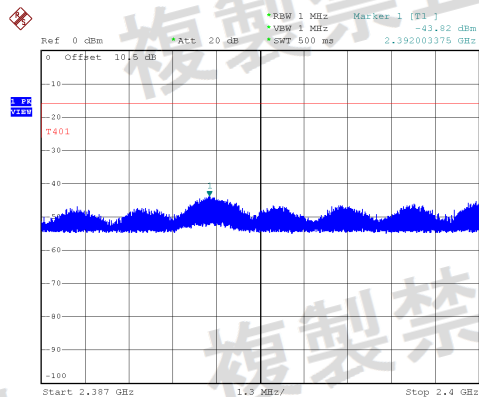
Modulation Standard: GFSK-500kbps, CH19



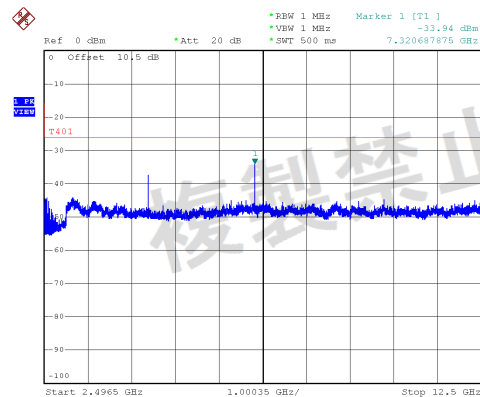
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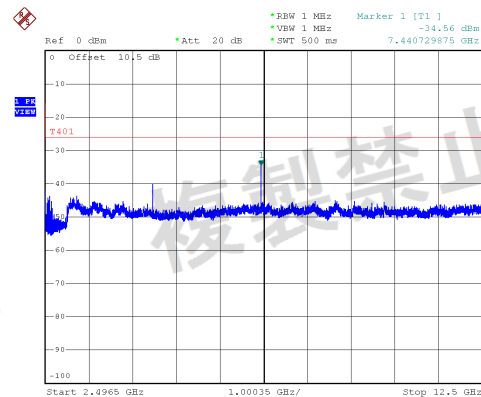
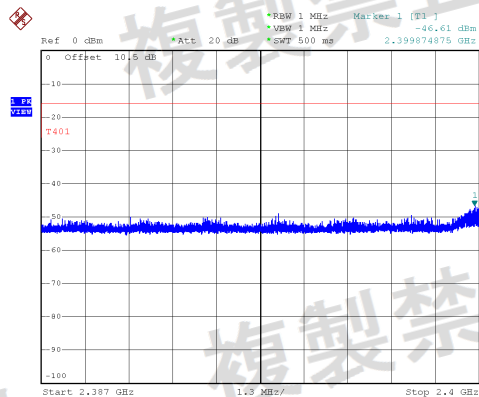
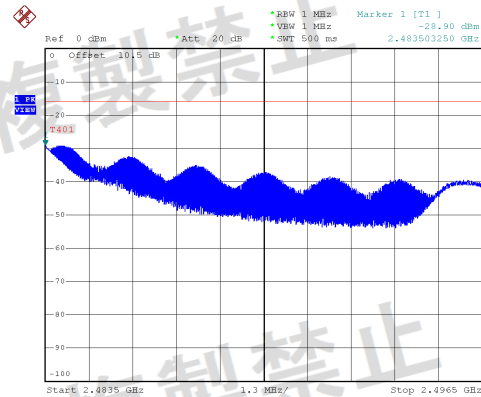
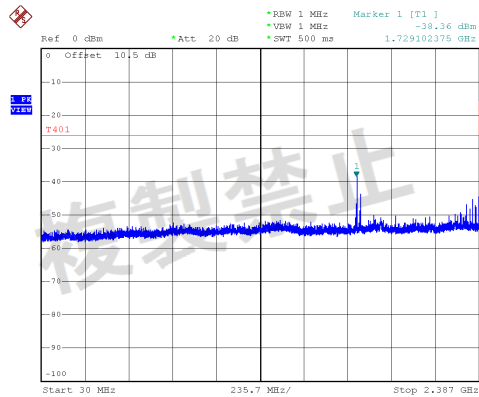


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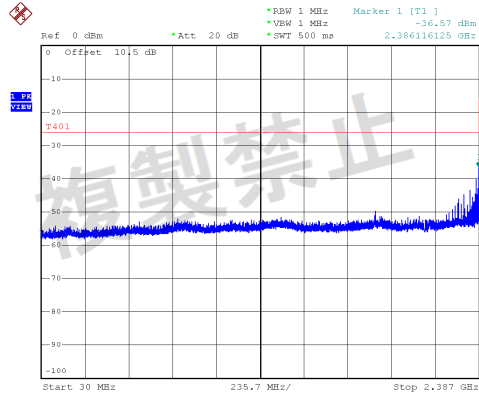
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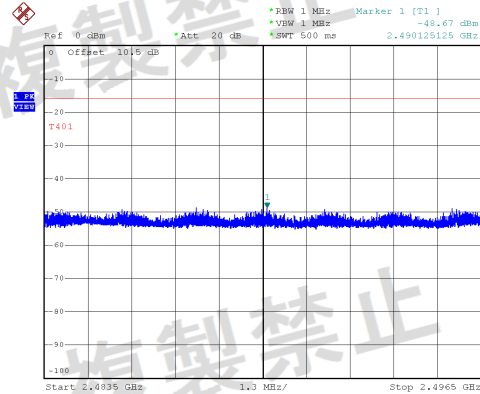




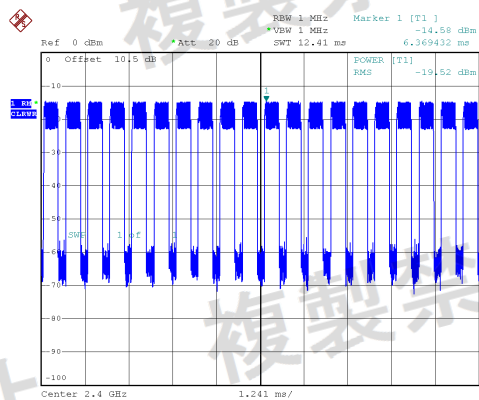
Vmax
Modulation Standard: GFSK-1Mbps, CH00



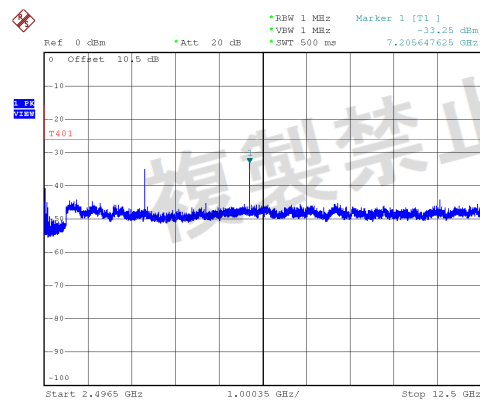
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Date: 15.JAN.2026 12:21:34



Date: 15.JAN.2026 12:21:09

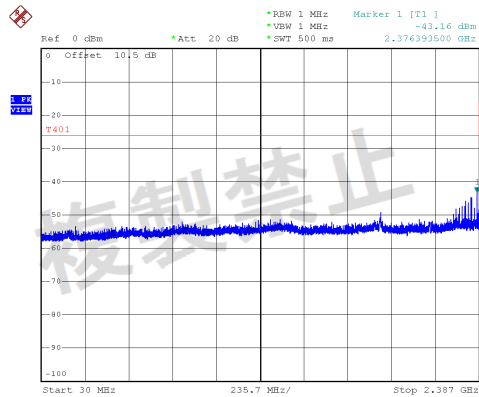


Date: 15.JAN.2026 12:22:09

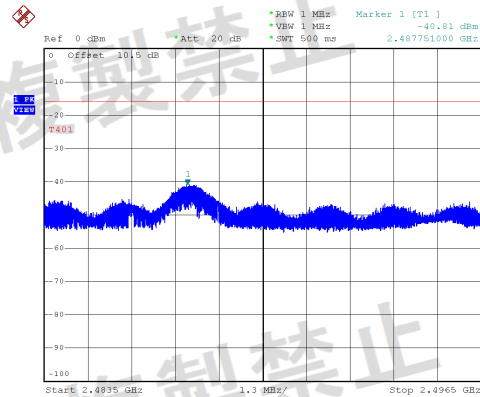


Vmax

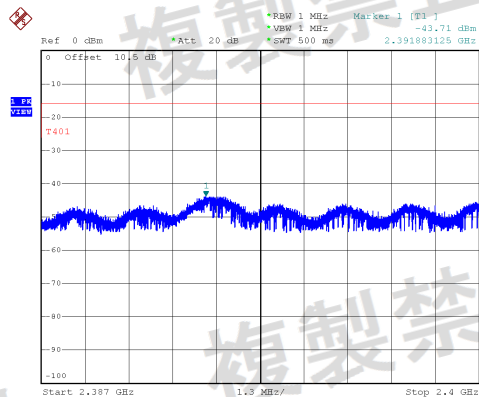
Modulation Standard: GFSK-1Mbps, CH19



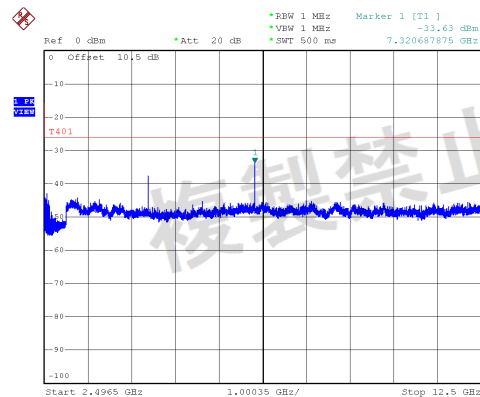
Date: 15.JAN.2026 12:30:21



Date: 15.JAN.2026 12:31:31



Date: 15.JAN.2026 12:30:56

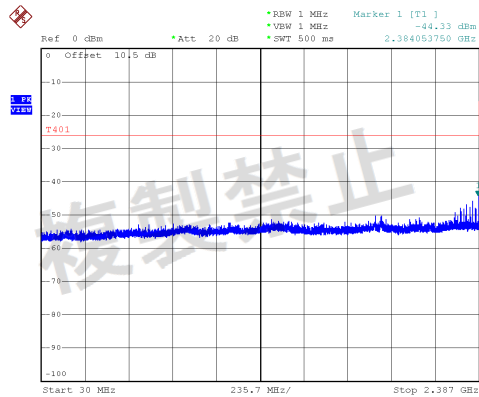


Date: 15.JAN.2026 12:32:06

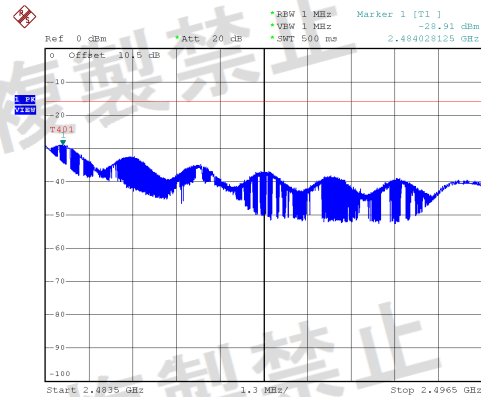


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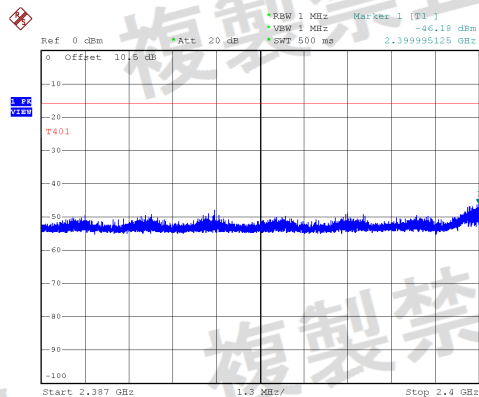
Modulation Standard: GFSK-1Mbps, CH39



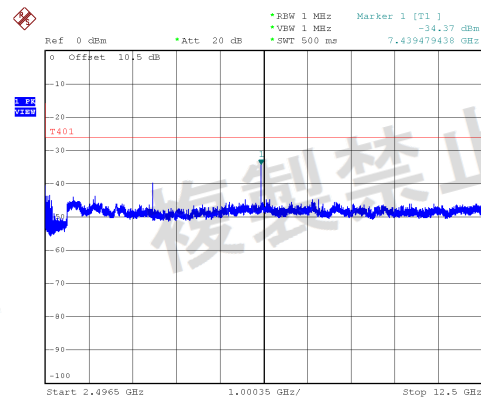
Date: 15.JAN.2026 12:34:46



Date: 15.JAN.2026 12:35:55



Date: 15.JAN.2026 12:35:21

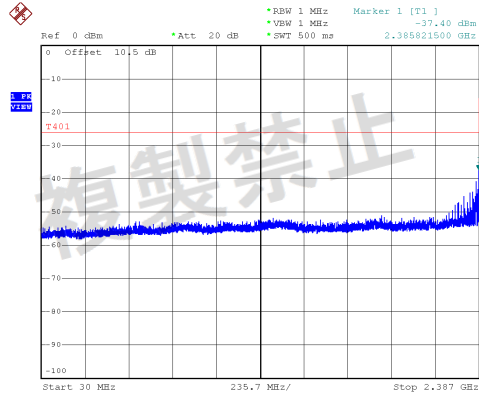


Date: 15.JAN.2026 12:36:30

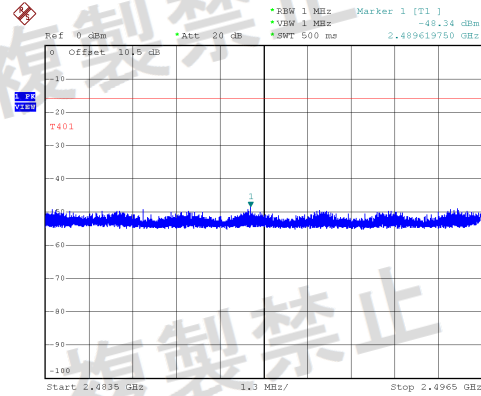


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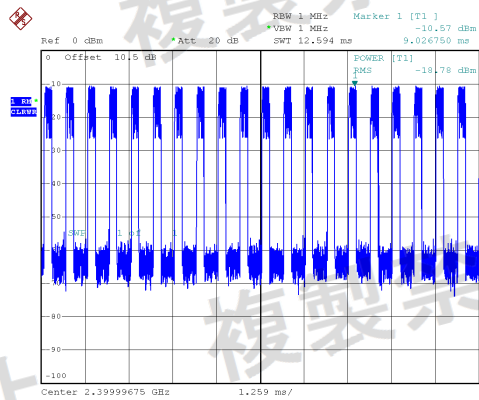
Modulation Standard: GFSK-2Mbps, CH00



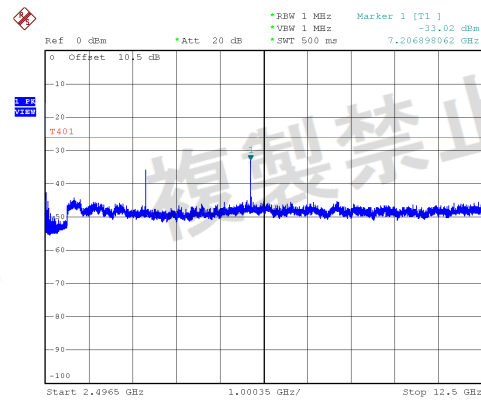
Date: 15.JAN.2026 13:50:17



Date: 15.JAN.2026 13:51:32



Date: 15.JAN.2026 13:51:07

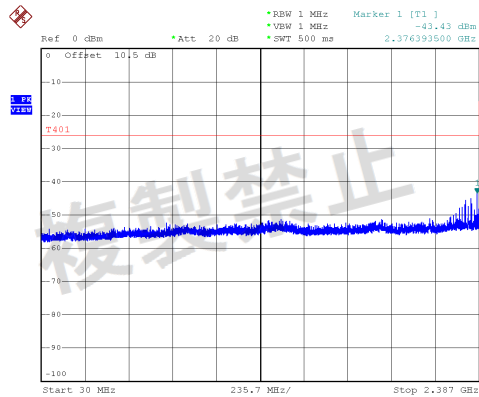


Date: 15.JAN.2026 13:52:08

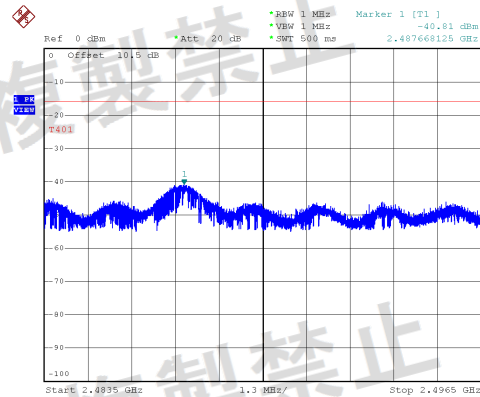


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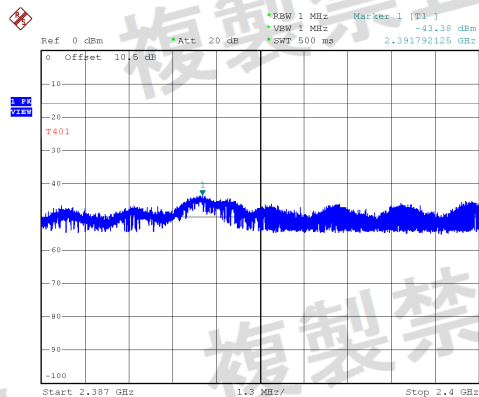
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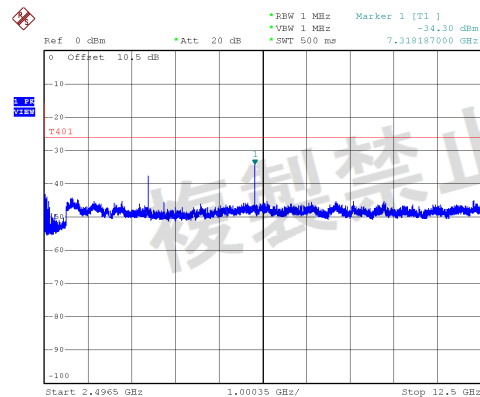
Date: 15.JAN.2026 13:55:55



Date: 15.JAN.2026 13:57:32



Date: 15.JAN.2026 13:56:31

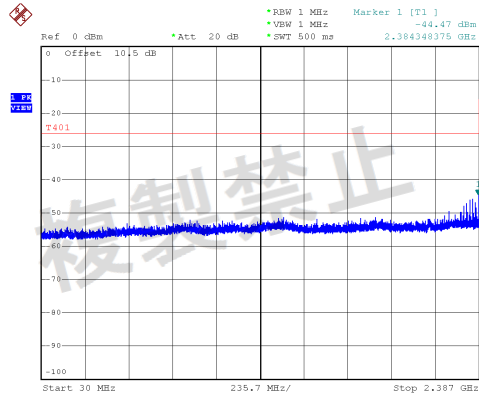


Date: 15.JAN.2026 13:58:07

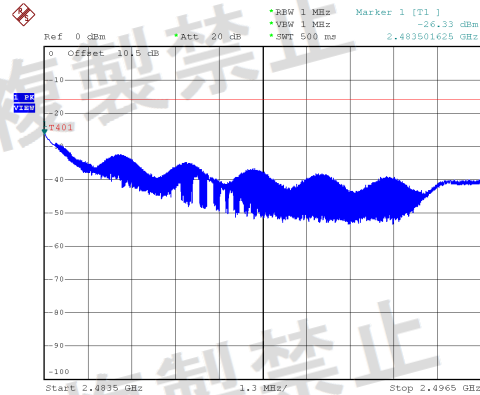


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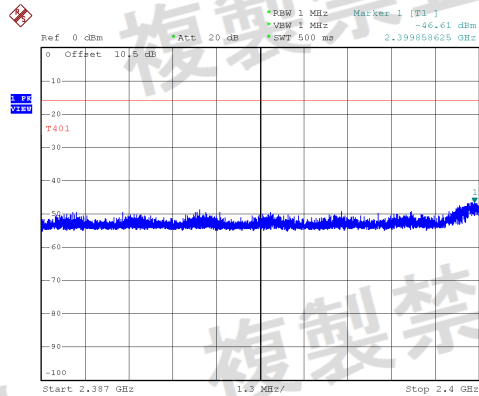
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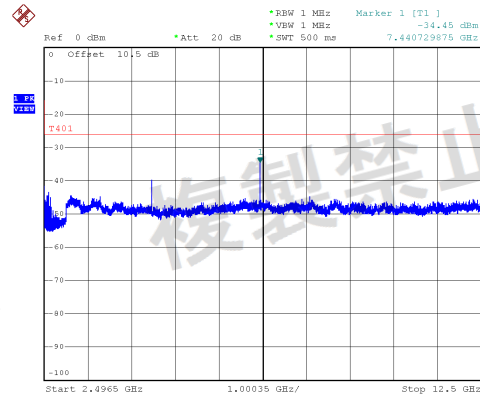
Date: 15.JAN.2026 14:00:38



Date: 15.JAN.2026 14:01:50



Date: 15.JAN.2026 14:01:14

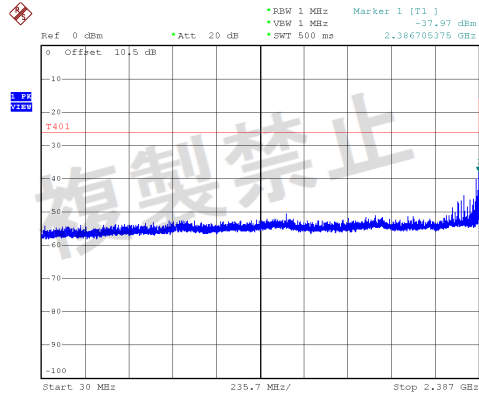


Date: 15.JAN.2026 14:02:32

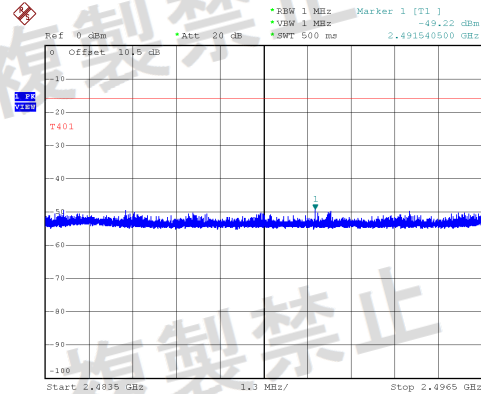


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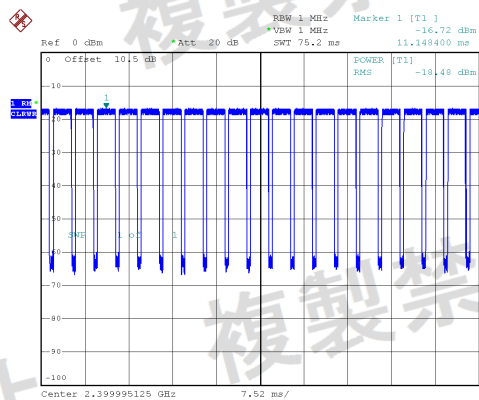
Modulation Standard: GFSK-125kbps, CH00



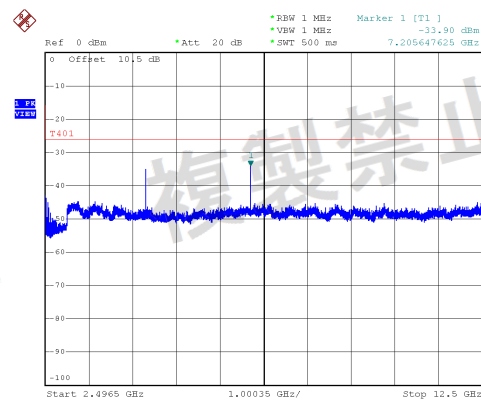
Date: 15.JAN.2026 14:36:59



Date: 15.JAN.2026 14:38:20



Date: 15.JAN.2026 14:37:55

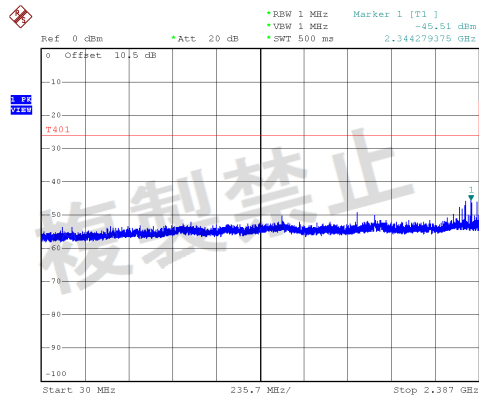


Date: 15.JAN.2026 14:38:56

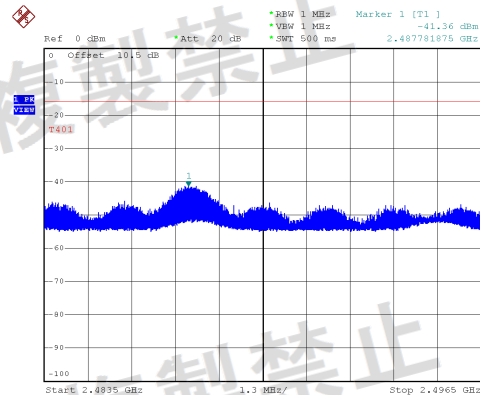


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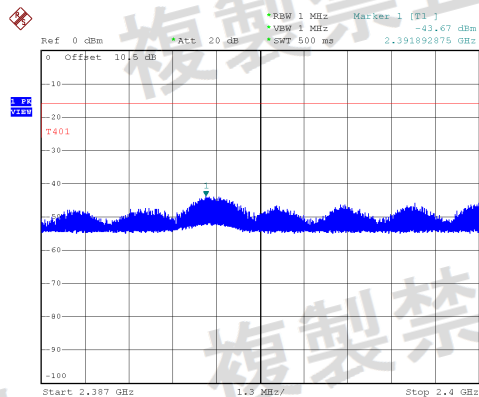
Modulation Standard: GFSK-125kbps, CH19



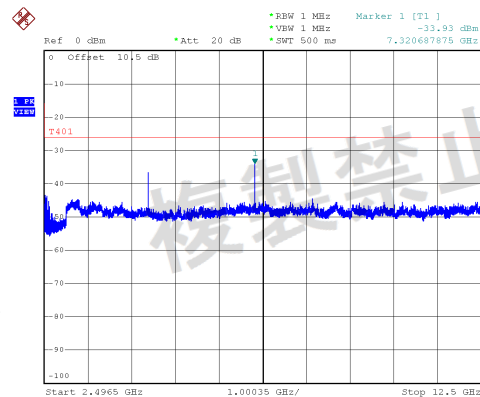
Date: 15.JAN.2026 14:43:20



Date: 15.JAN.2026 14:44:31



Date: 15.JAN.2026 14:43:56

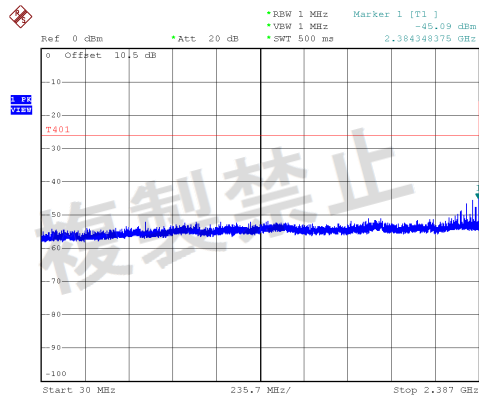


Date: 15.JAN.2026 14:45:07

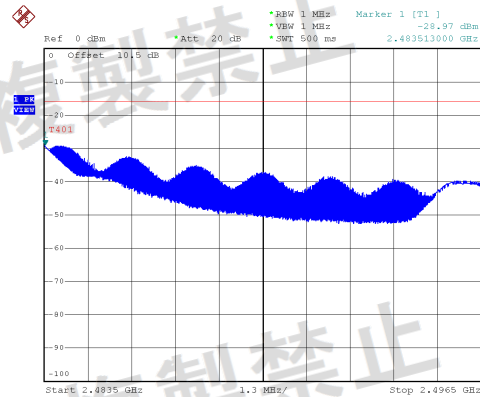


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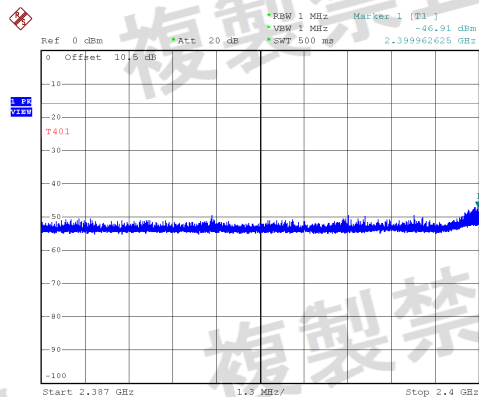
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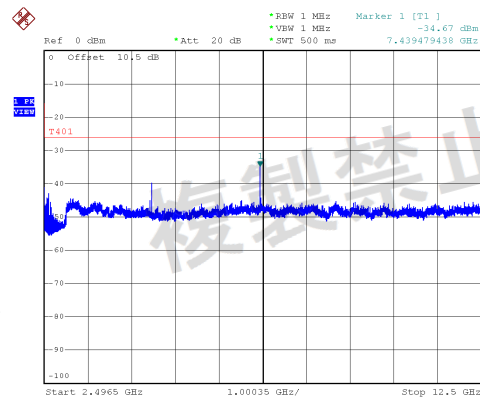
Date: 15.JAN.2026 14:51:53



Date: 15.JAN.2026 14:54:06



Date: 15.JAN.2026 14:52:28

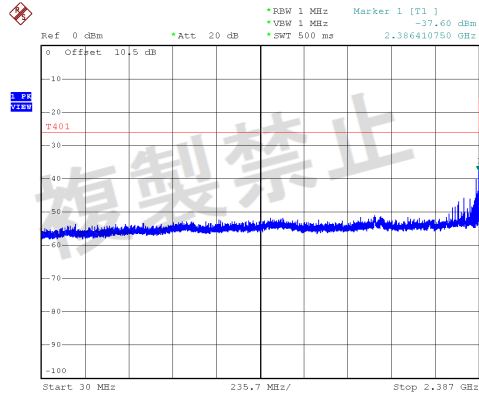


Date: 15.JAN.2026 14:54:41

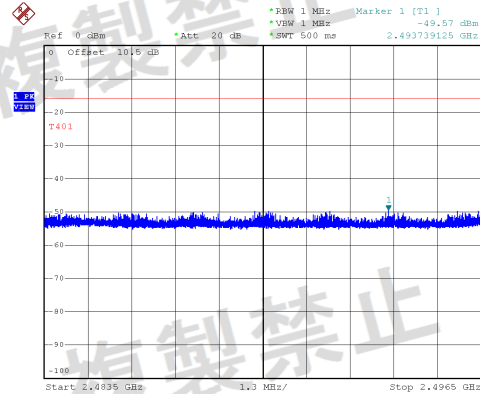


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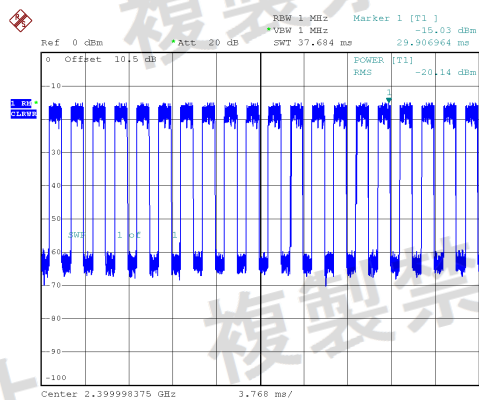
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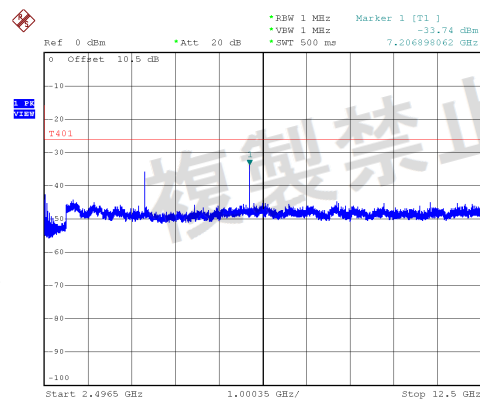
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Date: 15.JAN.2026 15:47:31



Date: 15.JAN.2026 15:47:06

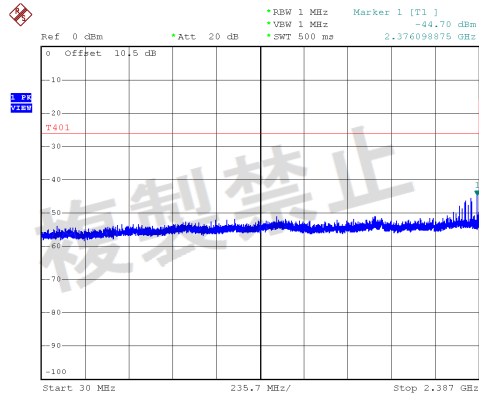


Date: 15.JAN.2026 15:48:07

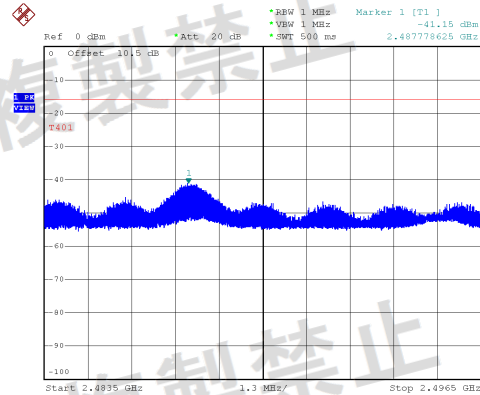


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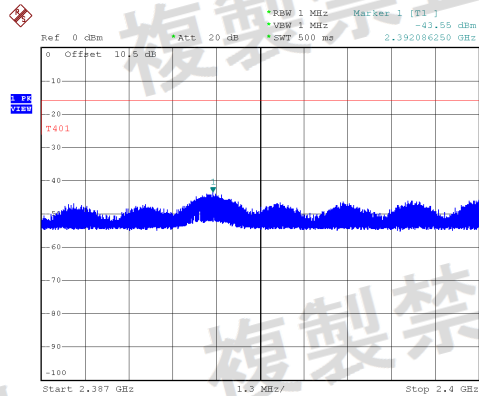
Modulation Standard: GFSK-500kbps, CH19



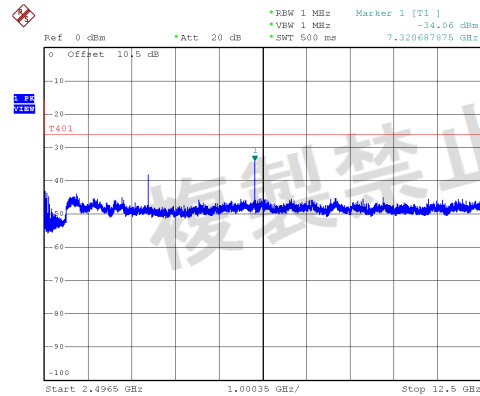
Date: 15.JAN.2026 15:50:29



Date: 15.JAN.2026 15:51:40



Date: 15.JAN.2026 15:51:05

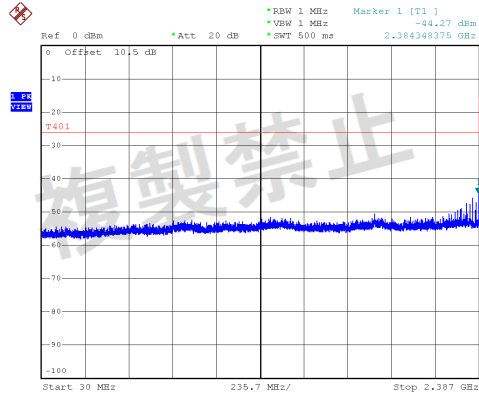


Date: 15.JAN.2026 15:52:16

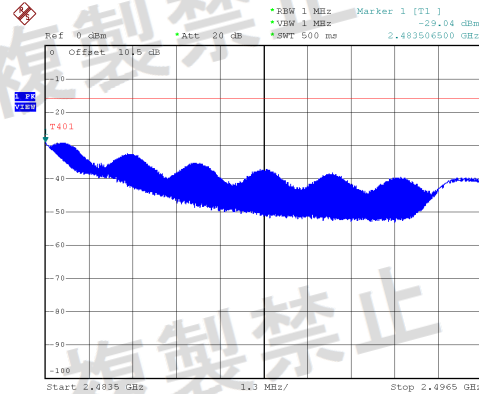


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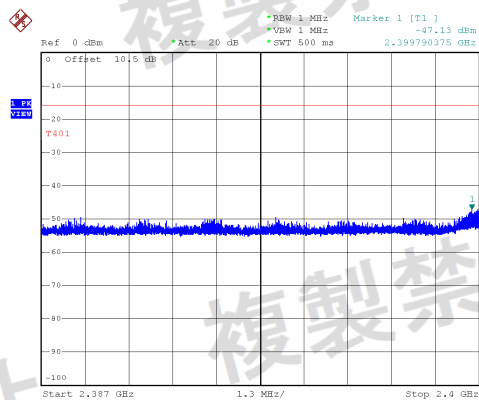
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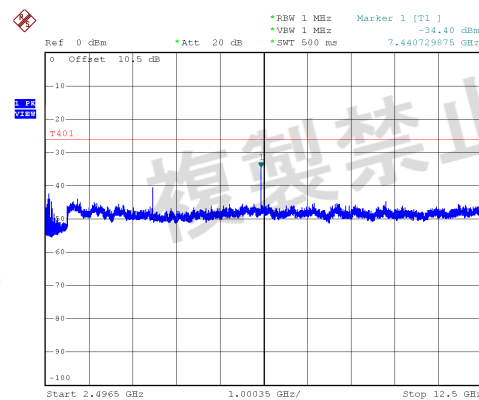
Date: 15.JAN.2026 15:54:46



Date: 15.JAN.2026 15:55:58



Date: 15.JAN.2026 15:55:22

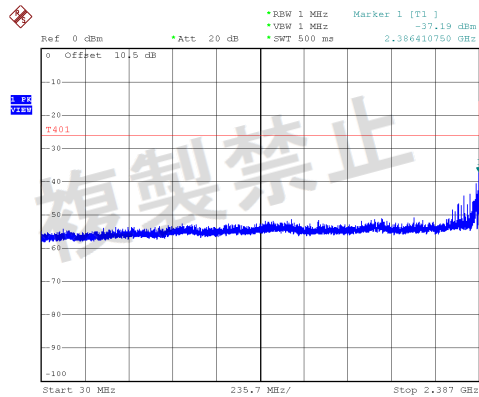


Date: 15.JAN.2026 15:56:33

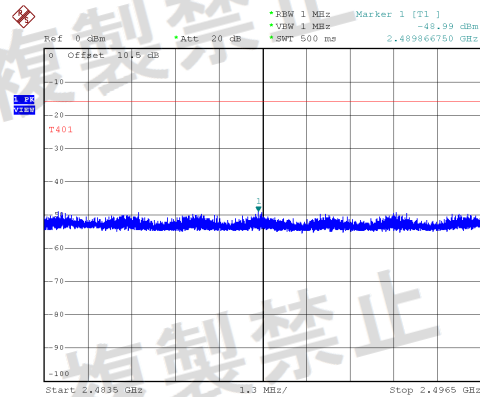


Vmin

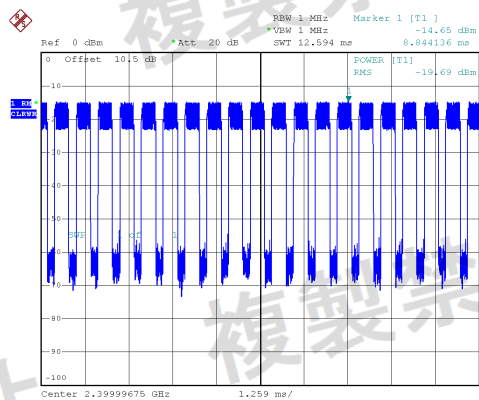
Modulation Standard: GFSK-1Mbps, CH00



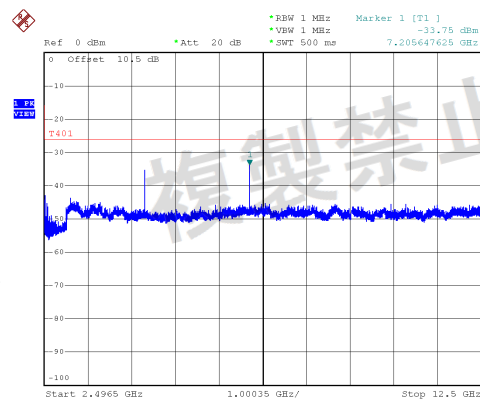
Date: 15.JAN.2026 16:39:09



Date: 15.JAN.2026 16:40:29



Date: 15.JAN.2026 16:40:04

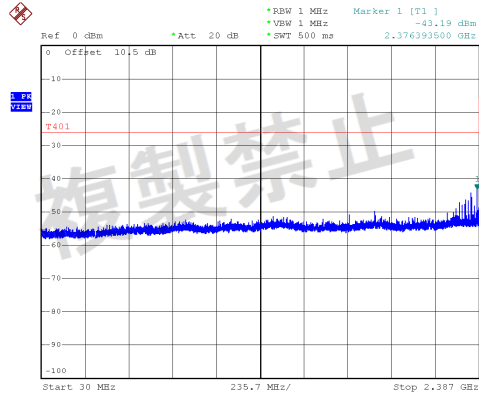


Date: 15.JAN.2026 16:41:05

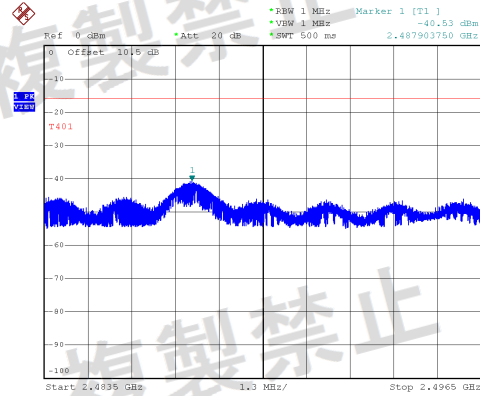


Vmin

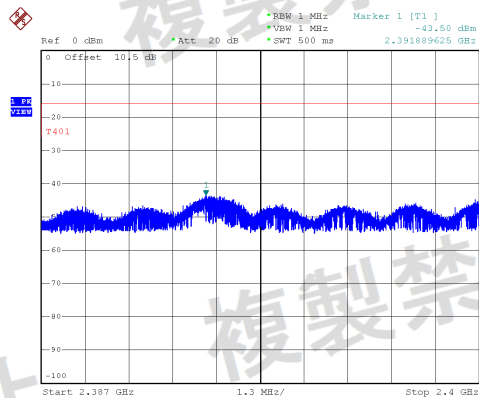
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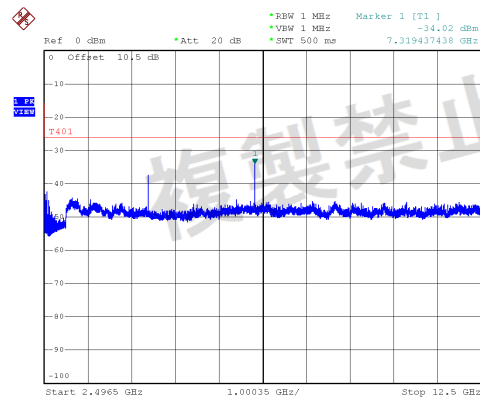
Date: 15.JAN.2026 16:43:34



Date: 15.JAN.2026 16:44:45



Date: 15.JAN.2026 16:44:09

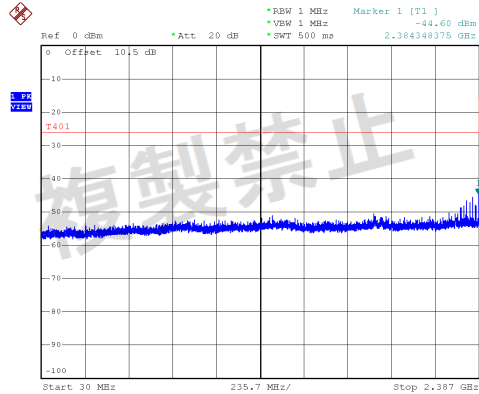


Date: 15.JAN.2026 16:45:21

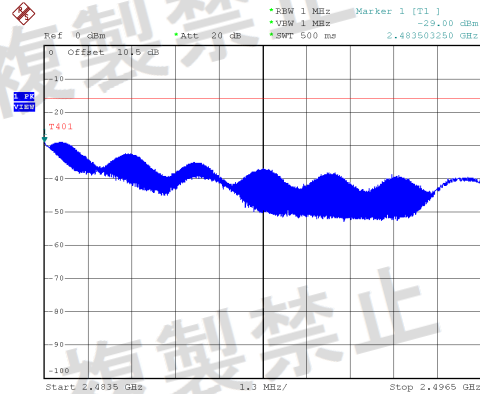


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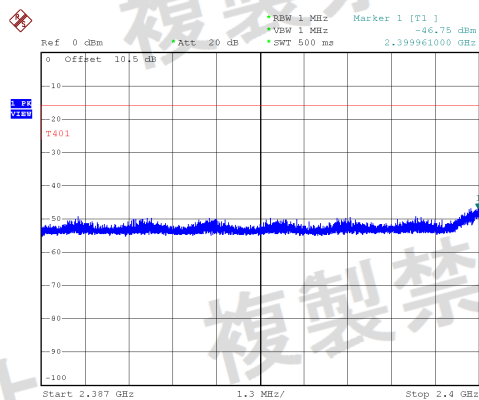
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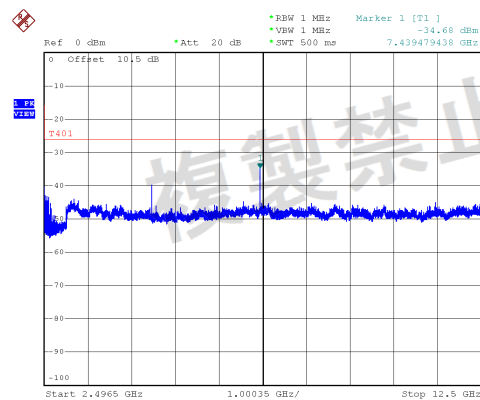
Date: 15.JAN.2026 16:47:46



Date: 15.JAN.2026 16:48:57



Date: 15.JAN.2026 16:48:21

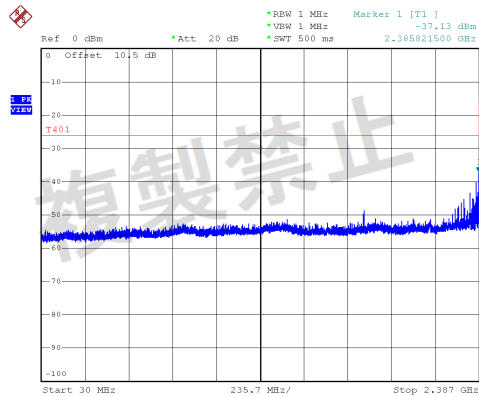


Date: 15.JAN.2026 16:49:33

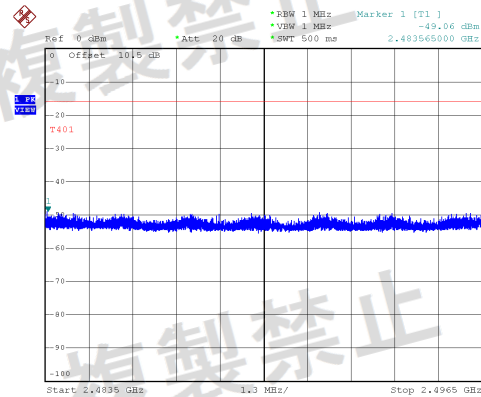


Vmin

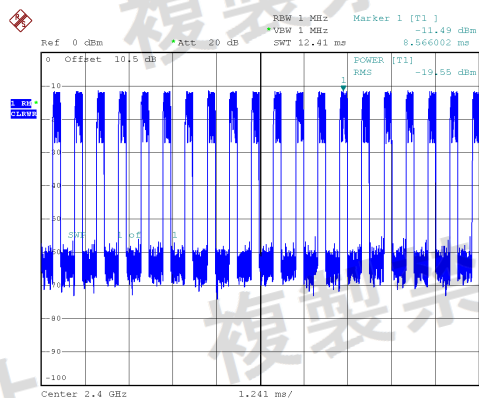
Modulation Standard: GFSK-2Mbps, CH00



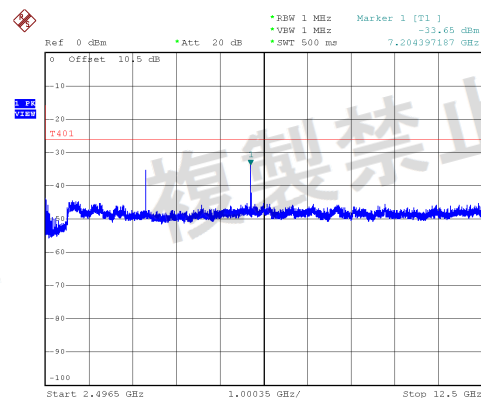
Date: 16.JAN.2026 09:12:45



Date: 16.JAN.2026 09:14:10



Date: 16.JAN.2026 09:13:44

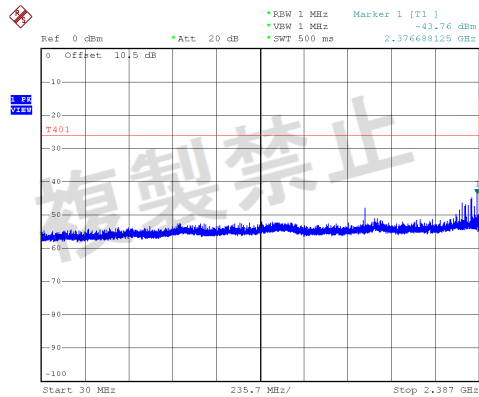


Date: 16.JAN.2026 09:14:48

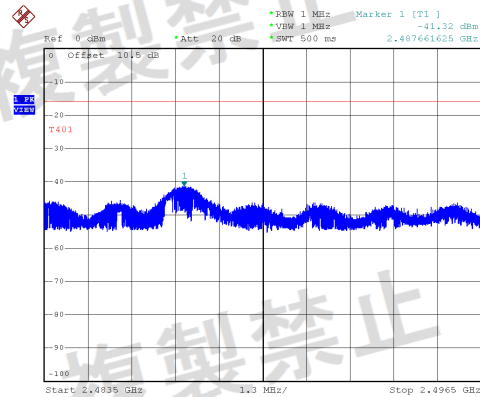


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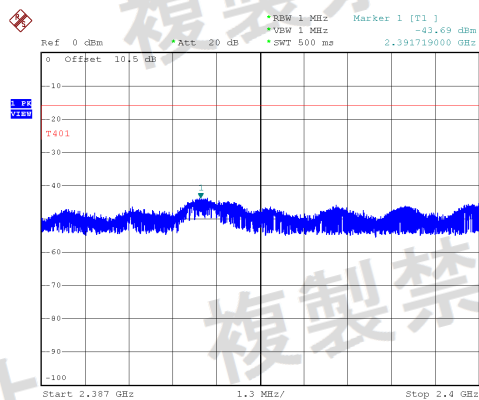
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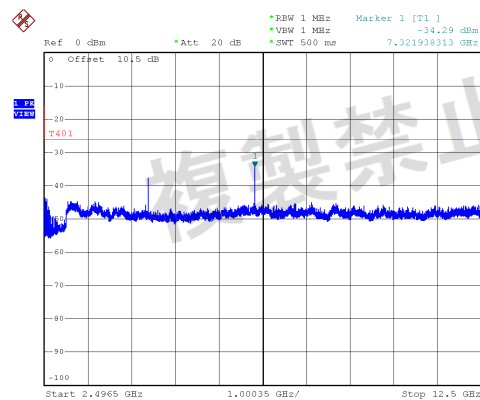
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Date: 16.JAN.2026 09:18:54



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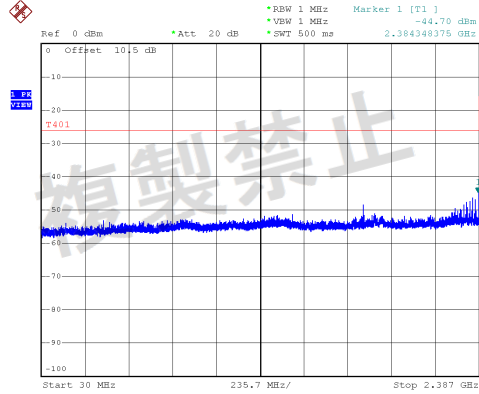


Date: 16.JAN.2026 09:19:30

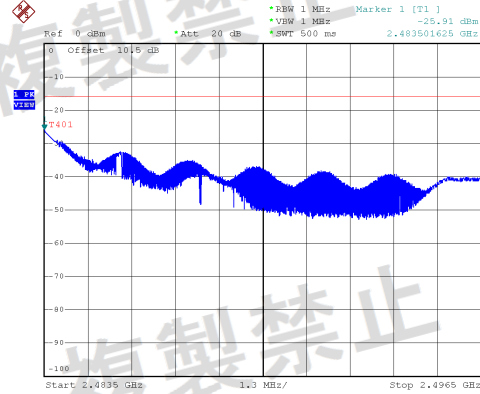


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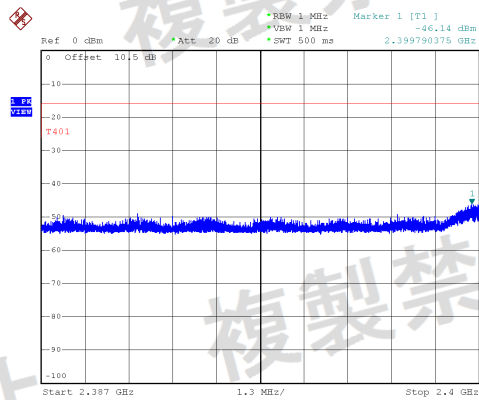
Modulation Standard: GFSK-2Mbps, CH39



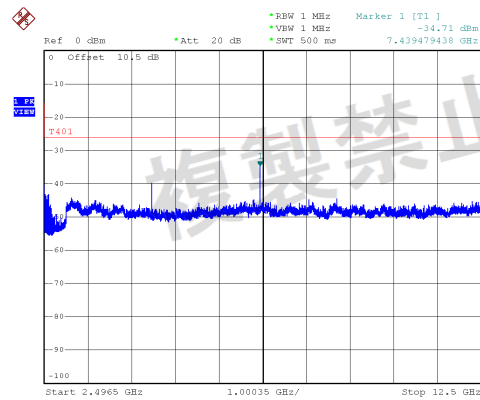
Date: 16.JAN.2026 09:21:59



Date: 16.JAN.2026 09:23:13



Date: 16.JAN.2026 09:22:35

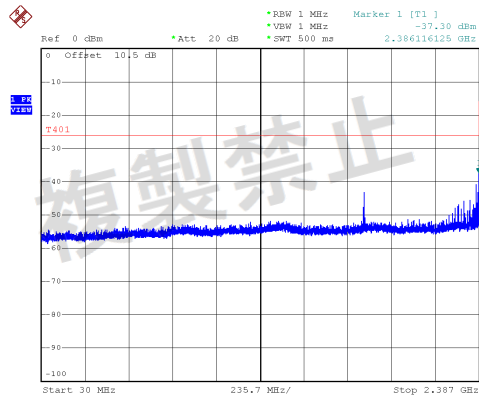


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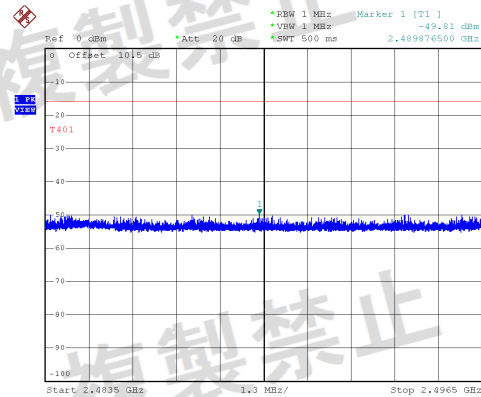


Vmin

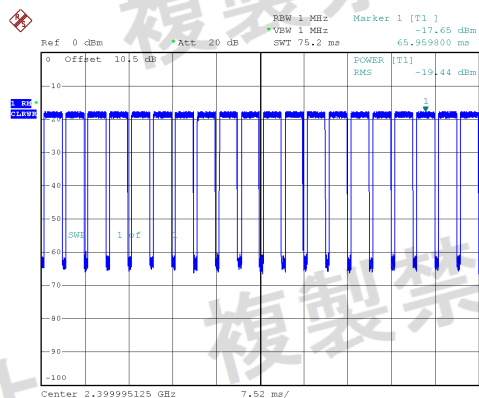
Modulation Standard: GFSK-125kbps, CH00



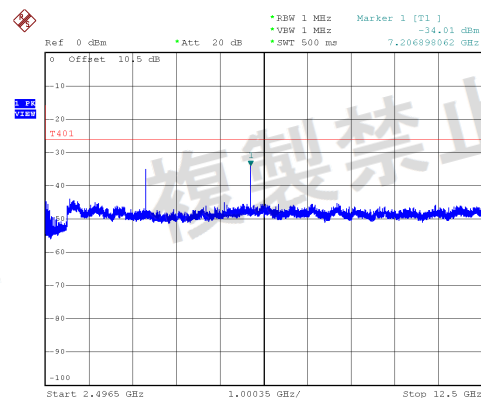
Date: 16.JAN.2026 09:51:03



Date: 16.JAN.2026 09:52:26



Date: 16.JAN.2026 09:51:59

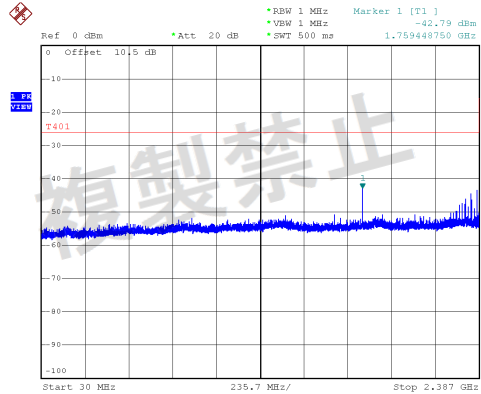


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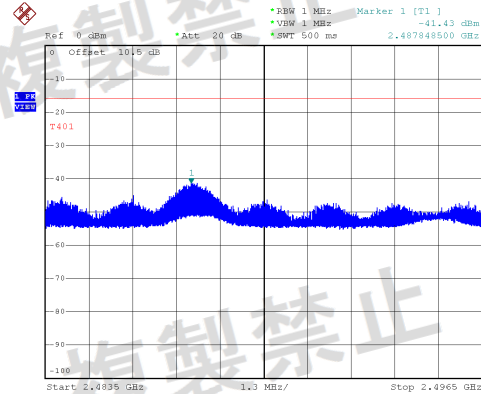


Vmin

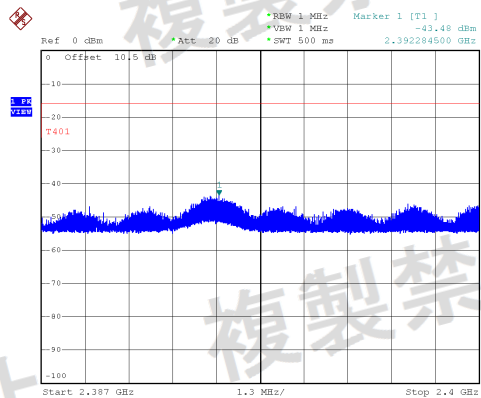
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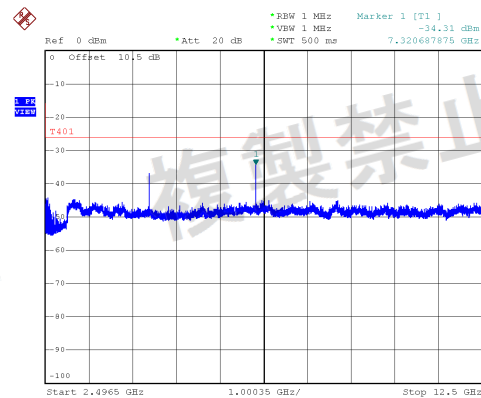
Date: 16.JAN.2026 09:56:26



Date: 16.JAN.2026 09:57:40



Date: 16.JAN.2026 09:57:03

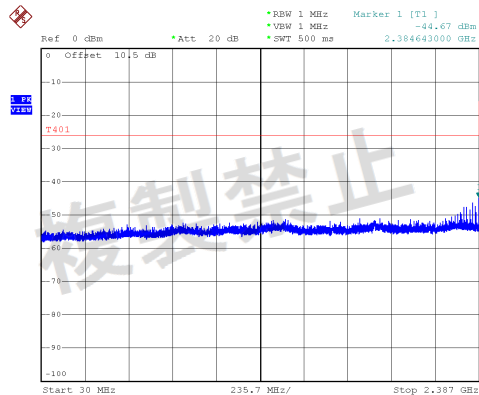


Date: 16.JAN.2026 09:58:18

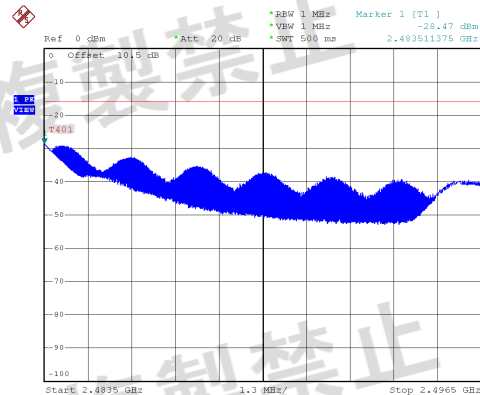


Vmin

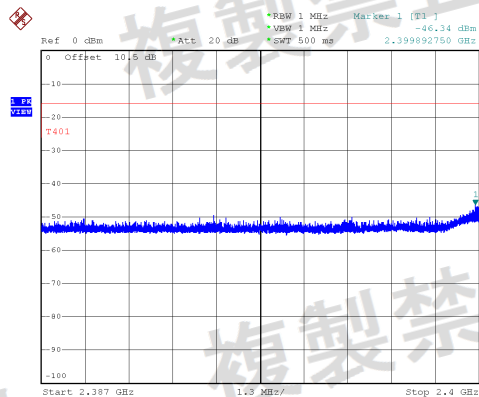
Modulation Standard: GFSK-125kbps, CH39



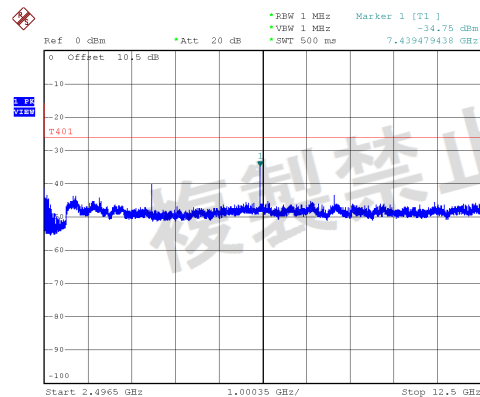
Date: 16.JAN.2026 10:02:23



Date: 16.JAN.2026 10:03:37



Date: 16.JAN.2026 10:03:00

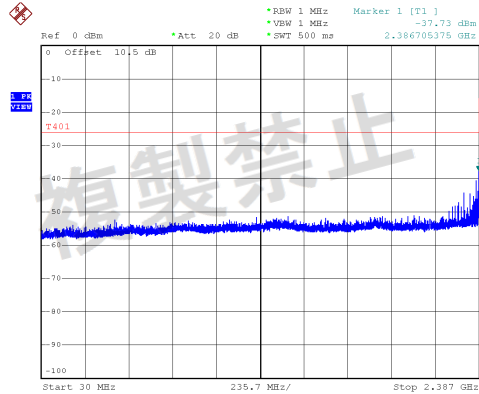


Date: 16.JAN.2026 10:04:15

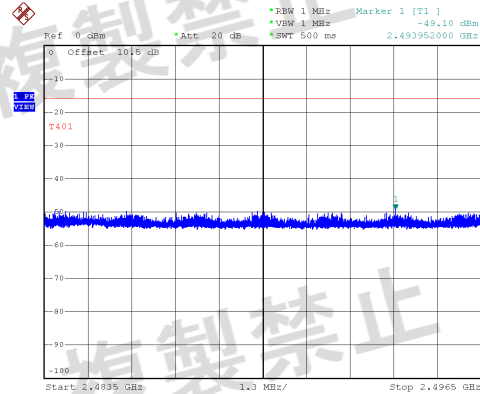


Vmin

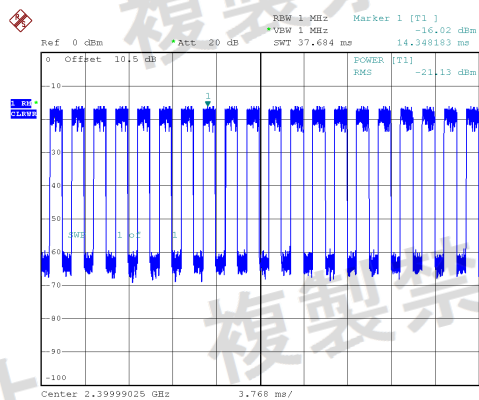
Modulation Standard: GFSK-500kbps, CH00



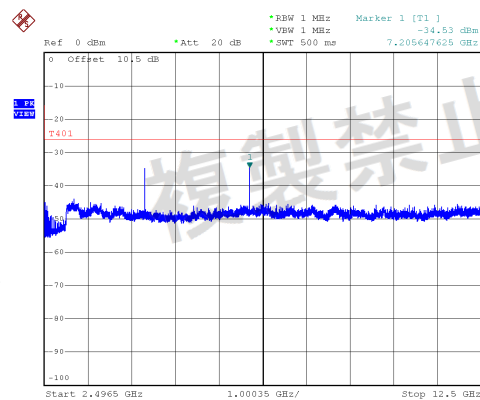
Date: 16.JAN.2026 10:31:32



Date: 16.JAN.2026 10:32:56



Date: 16.JAN.2026 10:32:29

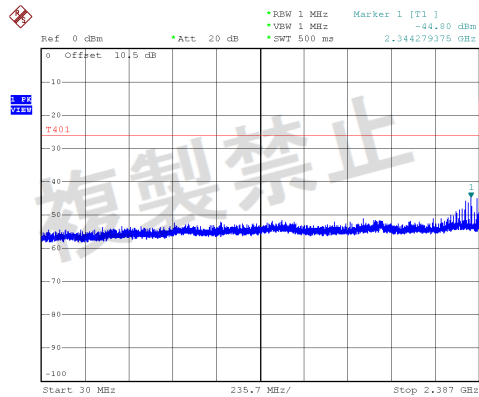


Date: 16.JAN.2026 10:33:33

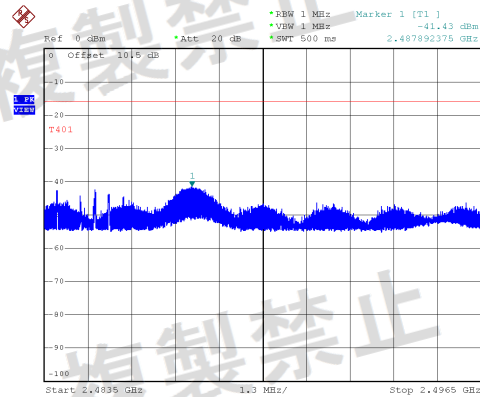


Vmin

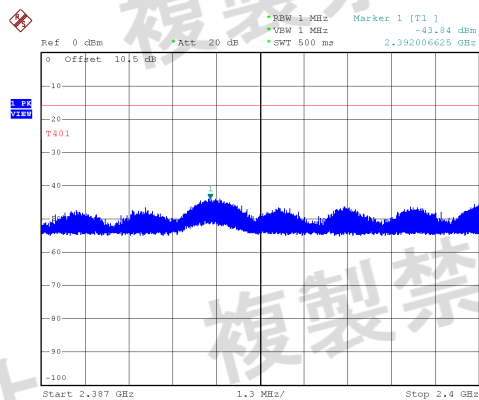
Modulation Standard: GFSK-500kbps, CH19



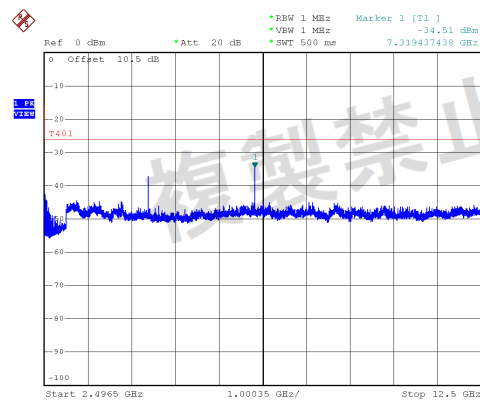
Date: 16.JAN.2026 10:36:11



Date: 16.JAN.2026 10:37:25



Date: 16.JAN.2026 10:36:48

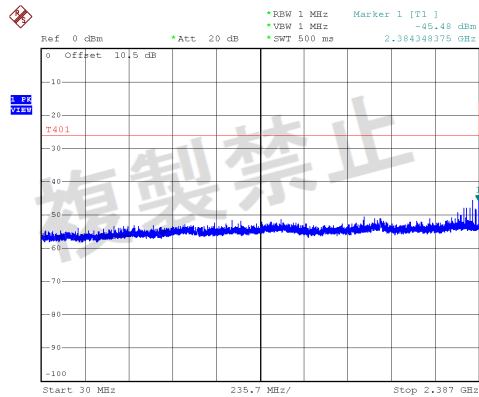


Date: 16.JAN.2026 10:38:03

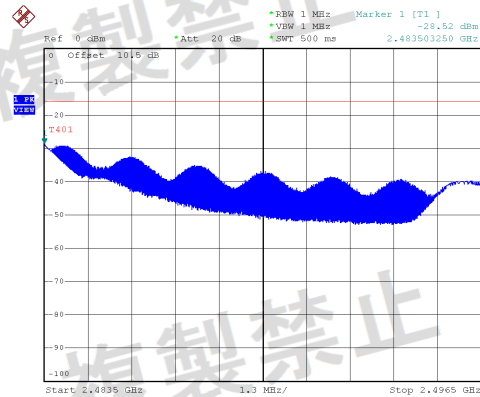


Vmin

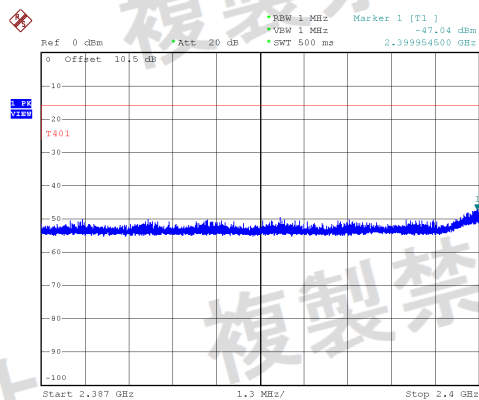
Modulation Standard: GFSK-500kbps, CH39



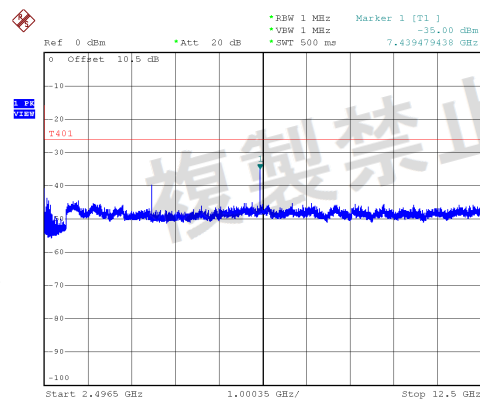
Date: 16.JAN.2026 10:41:16



Date: 16.JAN.2026 10:42:31



Date: 16.JAN.2026 10:41:53



Date: 16.JAN.2026 10:43:08



4.5 Interference Prevention Function

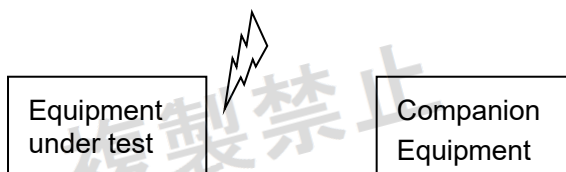
4.5.1 Test Limit

Identification code ≥ 48 bits

4.5.2 Test Procedures

1. Set EUT under operation mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Confirm the MAC address of EUT

4.5.3 Test Setup



4.5.4 Test Result

ID Code	MAC Address : 18:24:39:06:42:BD
Result: PASS	



4.6 Carrier Sensing Function

4.6.1 Test Result

Not applicable.



5. Receiver Parameters

5.1 Spurious Emissions

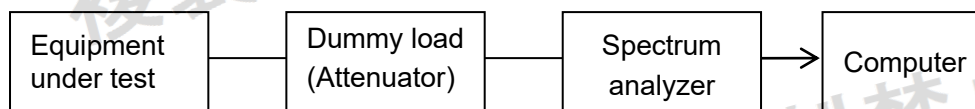
5.1.1 Test Limit

Frequency Band	Limit
<1GHz	4nW
1GHz ~ 12.5GHz	20nW

5.1.2 Test Procedures

According to Notification No. 88 of MIC, 2004, Annex 43 Limit of secondary radiated emissions measuring procedure.

5.1.3 Test Setup



5.1.4 Test Result and Data

BLE (GFSK-1Mbps)

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 1000MHz	Spurious Emission Frequency	MHz	368.05	368.05	368.05
Vmax				517.06	399.93	367.92
Vmin				368.05	368.05	368.05
Vnom	1000MHz ~ 12500MHz		MHz	1826.56	1852.44	1851.00
Vmax				2450.44	1822.25	2522.32
Vmin				1822.25	1823.69	2118.38
Vnom	30MHz ~ 1000MHz	Spurious Emission Intensity	nW	0.3013	0.3027	0.2472
Vmax				0.6166	0.2244	0.2046
Vmin				0.3289	0.3041	0.3013
Vnom	1000MHz ~ 12500MHz		nW	4.3152	9.4406	6.9663
Vmax				3.0620	2.8708	12.6183
Vmin				2.4322	3.1550	4.8753

*The test result calculated as follows:

$$nW = 10^{(\text{Measurement Value(dBm)}/10)} * 1000000$$

**BLE (GFSK-2Mbps)**

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 1000MHz	Spurious Emission Frequency	MHz	367.92	368.05	367.92
Vmax				367.92	368.05	368.05
Vmin				368.05	368.05	368.05
Vnom	1000MHz ~ 12500MHz		MHz	1855.31	1828.00	1852.44
Vmax				1828.00	1822.25	1853.88
Vmin				1822.25	1727.38	1823.69
Vnom	30MHz ~ 1000MHz	Spurious Emission Intensity	nW	0.3097	0.3006	0.3327
Vmax				0.2163	0.2089	0.2080
Vmin				0.3184	0.3055	0.2877
Vnom	1000MHz ~ 12500MHz		nW	3.8815	8.3753	7.1614
Vmax				12.3595	4.3351	6.4714
Vmin				3.1915	14.0281	4.1879

BLE (GFSK-125kbps)

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 1000MHz	Spurious Emission Frequency	MHz	367.92	368.05	368.05
Vmax				432.07	368.05	367.92
Vmin				368.05	368.05	498.39
Vnom	1000MHz ~ 12500MHz		MHz	1730.25	1865.38	1865.38
Vmax				1825.13	1826.56	1823.69
Vmin				1822.25	1823.69	1852.44
Vnom	30MHz ~ 1000MHz	Spurious Emission Intensity	nW	0.2000	0.2046	0.2051
Vmax				0.1858	0.1986	0.2061
Vmin				0.2884	0.2805	0.4345
Vnom	1000MHz ~ 12500MHz		nW	12.3880	4.1783	7.5336
Vmax				4.0458	3.5975	5.4702
Vmin				7.0958	5.0466	1.8113

*The test result calculated as follows:

$$nW = 10^{(\text{Measurement Value(dBm)}/10)} * 1000000$$

**BLE (GFSK-500kbps)**

Test Conditions						
Voltage	Frequency Band	Test Frequency	MHz	2402	2440	2480
Vnom	30MHz ~ 1000MHz	Spurious Emission Frequency	MHz	400.06	400.06	400.06
Vmax				399.93	368.05	499.84
Vmin				367.92	368.05	400.06
Vnom	1000MHz ~ 12500MHz		MHz	1865.38	1822.25	1826.56
Vmax				1856.75	1855.31	1822.25
Vmin				1822.25	1820.81	1863.94
Vnom	30MHz ~ 1000MHz	Spurious Emission Intensity	nW	0.1914	0.1977	0.1950
Vmax				0.1954	0.2084	0.4207
Vmin				0.3266	0.2999	0.2143
Vnom	1000MHz ~ 12500MHz		nW	5.2481	4.2073	6.0814
Vmax				3.4914	4.9888	5.4200
Vmin				5.1880	3.1915	3.9084

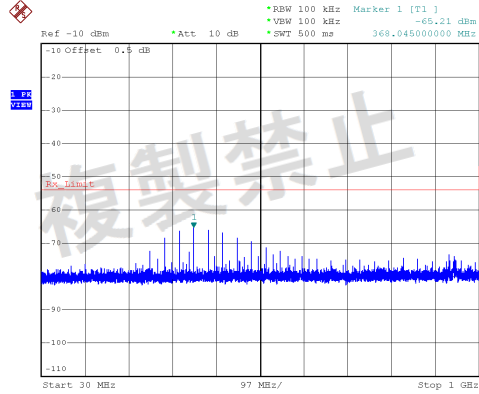
*The test result calculated as follows:

$$nW = 10^{(\text{Measurement Value(dBm)}/10)} * 1000000$$



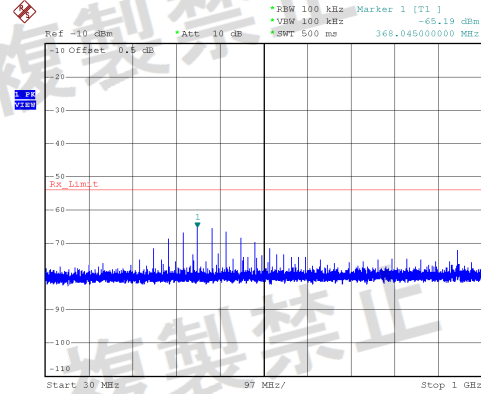
Vnom

Modulation Standard: GFSK-1Mbps, CH00

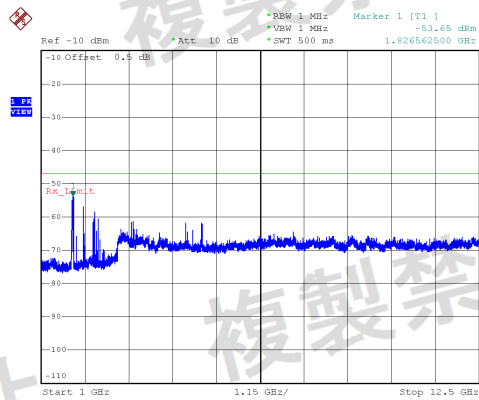


Date: 14.JAN.2026 15:00:54

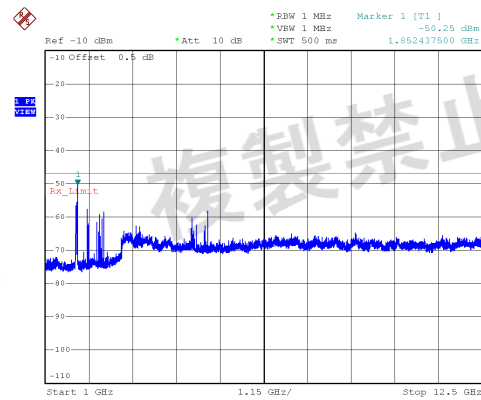
Modulation Standard: GFSK-1Mbps, CH19



Date: 14.JAN.2026 15:06:50



Date: 14.JAN.2026 15:05:34

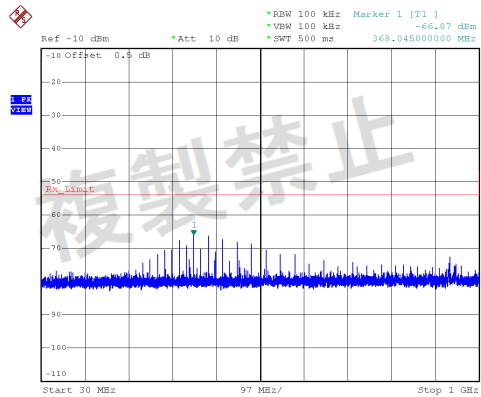


Date: 14.JAN.2026 15:10:27

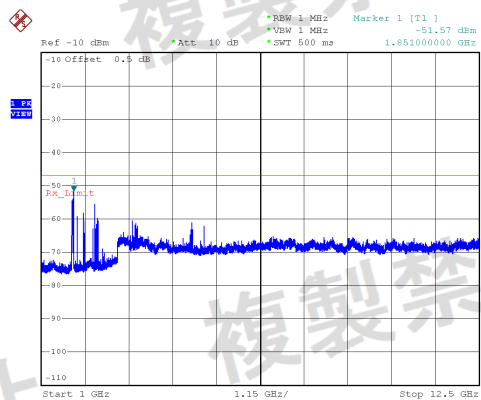


Vnom

Modulation Standard: GFSK-1Mbps, CH39



Date: 14.JAN.2026 15:11:31

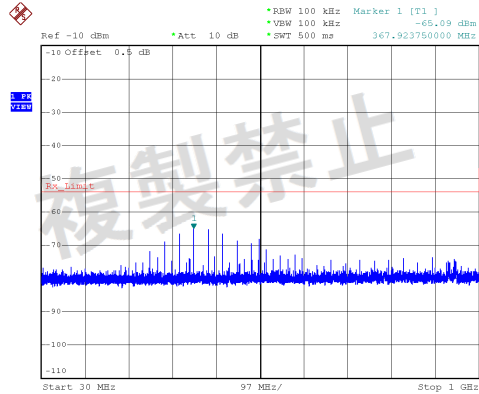


Date: 14.JAN.2026 15:12:07



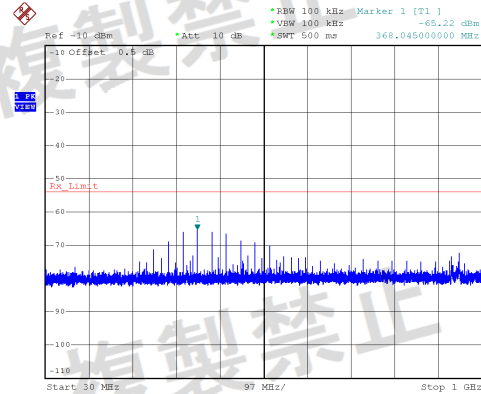
Vnom

Modulation Standard: GFSK-2Mbps, CH00

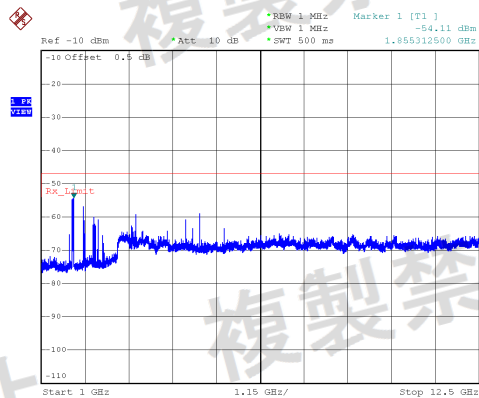


Date: 14.JAN.2026 16:02:15

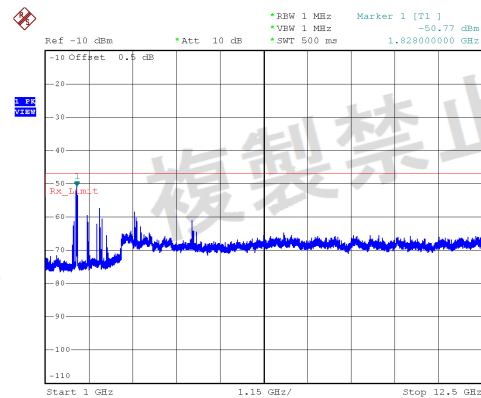
Modulation Standard: GFSK-2Mbps, CH19



Date: 14.JAN.2026 16:06:47



Date: 14.JAN.2026 16:05:49

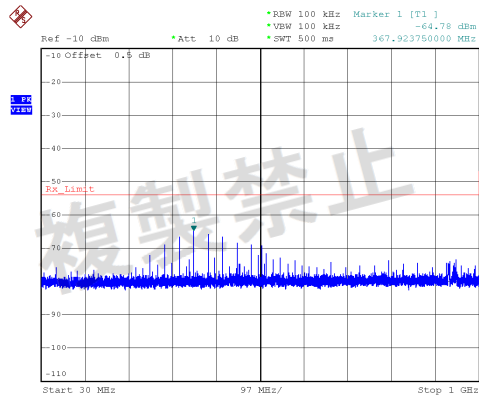


Date: 14.JAN.2026 16:06:14

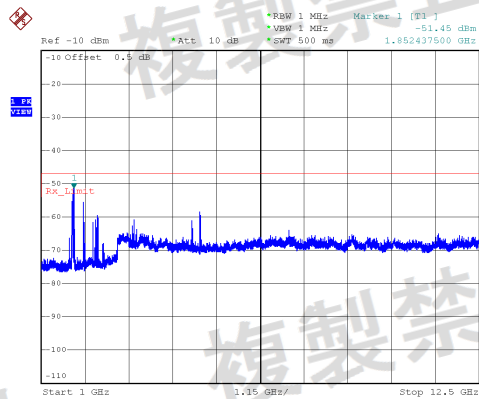


Vnom

Modulation Standard: GFSK-2Mbps, CH39



Date: 14.JAN.2026 16:09:56

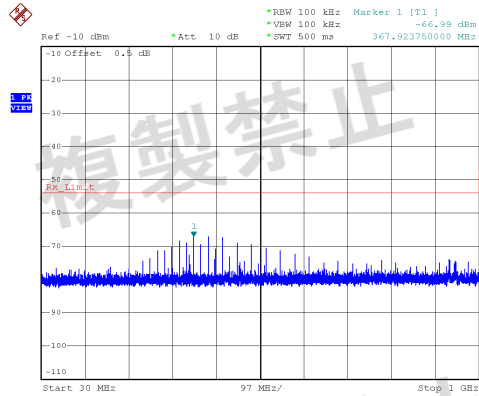


Date: 14.JAN.2026 16:11:39



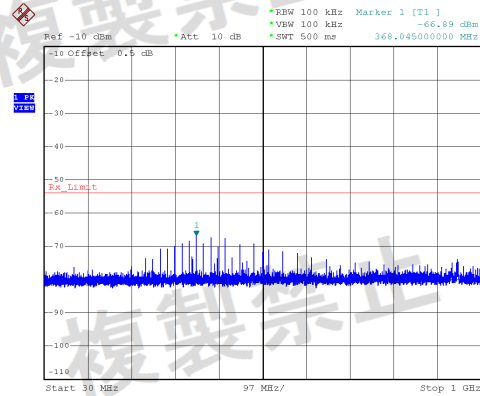
Vnom

Modulation Standard: GFSK-125kbps, CH00

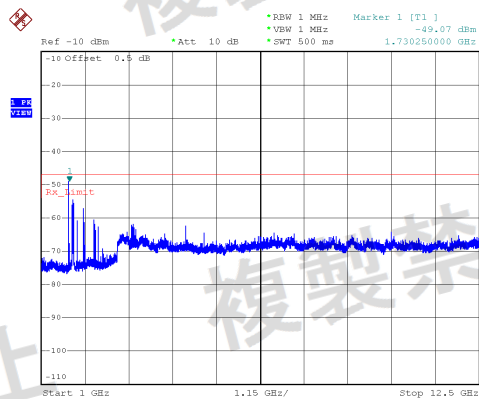


Date: 15.JAN.2026 09:11:23

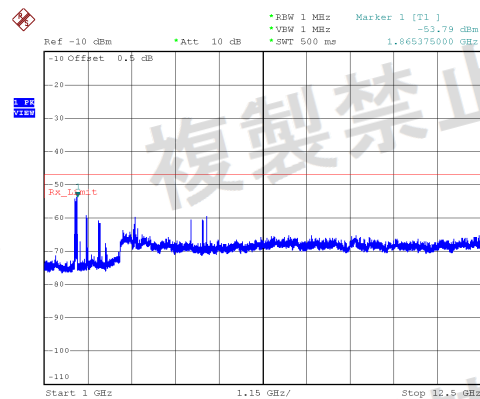
Modulation Standard: GFSK-125kbps, CH19



Date: 15.JAN.2026 09:15:59



Date: 15.JAN.2026 09:14:36

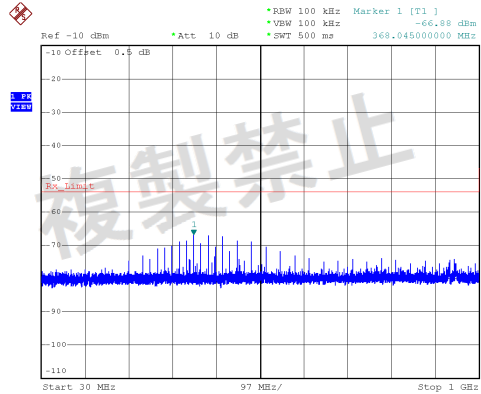


Date: 15.JAN.2026 09:16:34

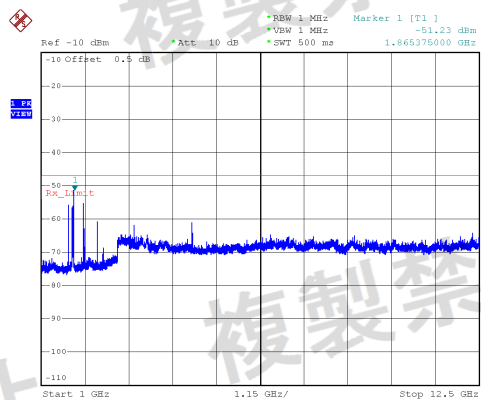


Vnom

Modulation Standard: GFSK-125kbps, CH39



Date: 15.JAN.2026 09:20:59

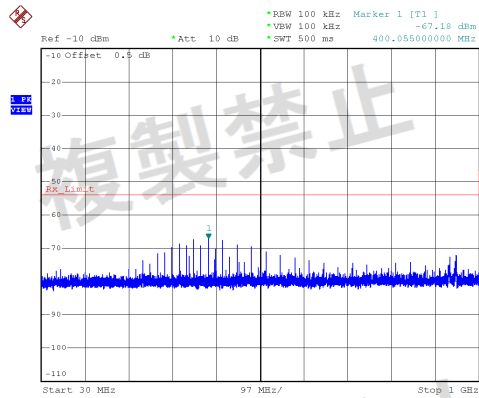


Date: 15.JAN.2026 09:21:35



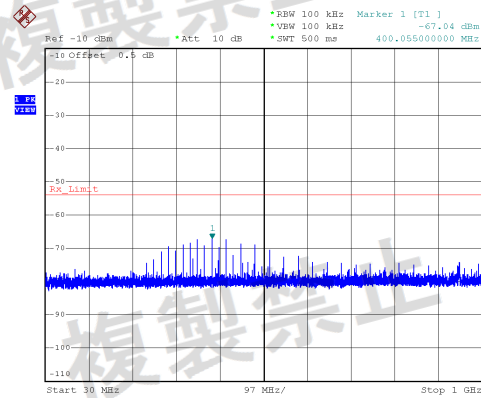
Vnom

Modulation Standard: GFSK-500kbps, CH00

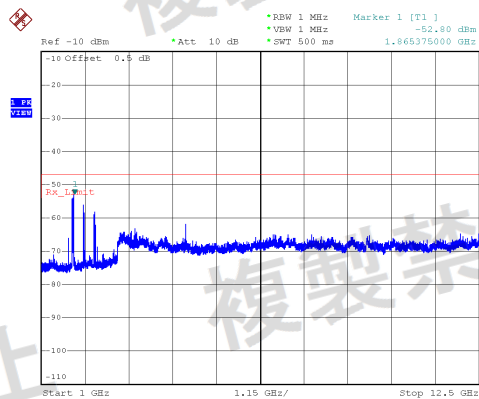


Date: 15.JAN.2026 10:06:39

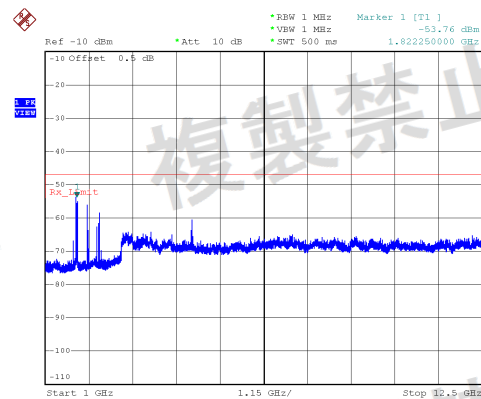
Modulation Standard: GFSK-500kbps, CH19



Date: 15.JAN.2026 10:09:55



Date: 15.JAN.2026 10:09:00

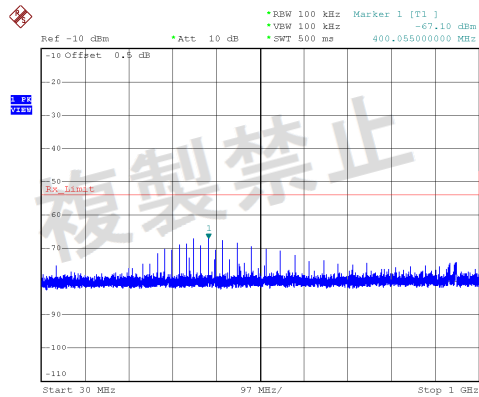


Date: 15.JAN.2026 10:13:54

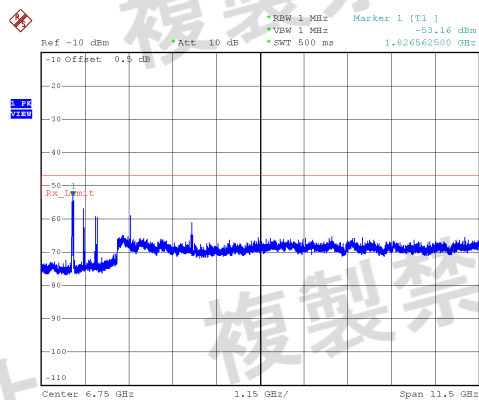


Vnom

Modulation Standard: GFSK-500kbps, CH39



Date: 15.JAN.2026 10:14:56

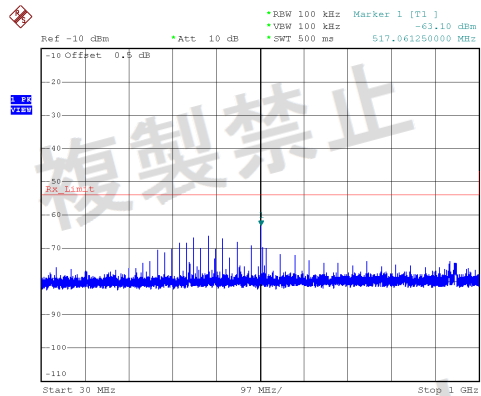


Date: 15.JAN.2026 10:22:32



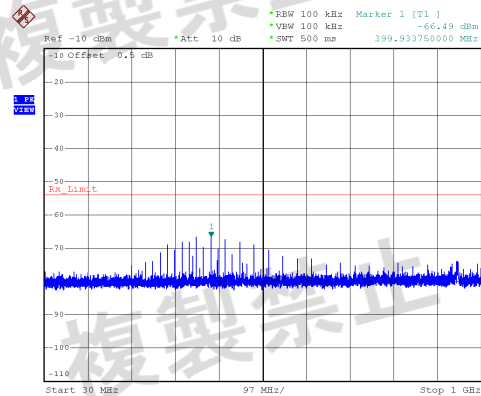
Vmax

Modulation Standard: GFSK-1Mbps, CH00

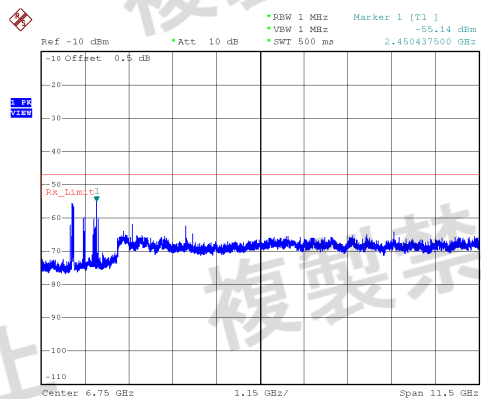


Date: 15.JAN.2026 12:45:14

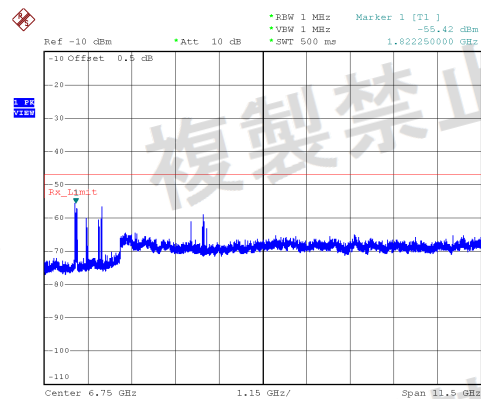
Modulation Standard: GFSK-1Mbps, CH19



Date: 15.JAN.2026 12:50:22



Date: 15.JAN.2026 12:49:09

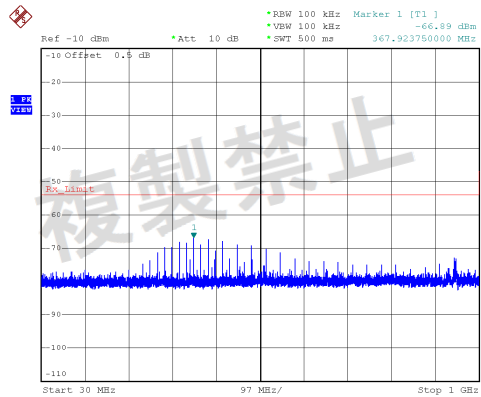


Date: 15.JAN.2026 12:53:47

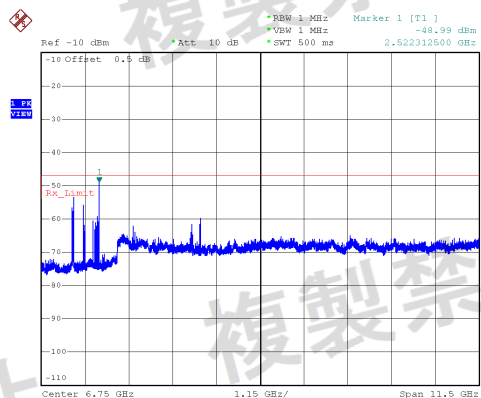


Vmax

Modulation Standard: GFSK-1Mbps, CH39



Date: 15.JAN.2026 13:00:42

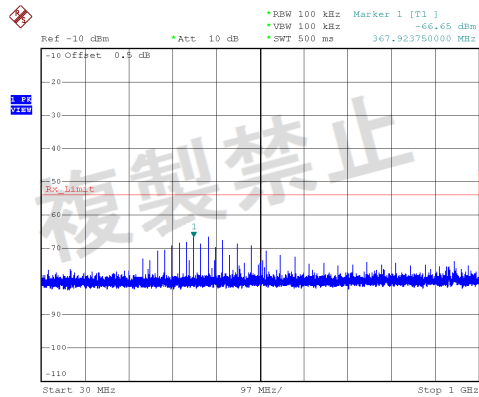


Date: 15.JAN.2026 13:01:41



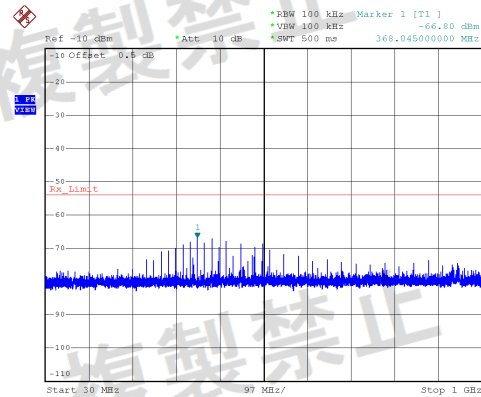
Vmax

Modulation Standard: GFSK-2Mbps, CH00

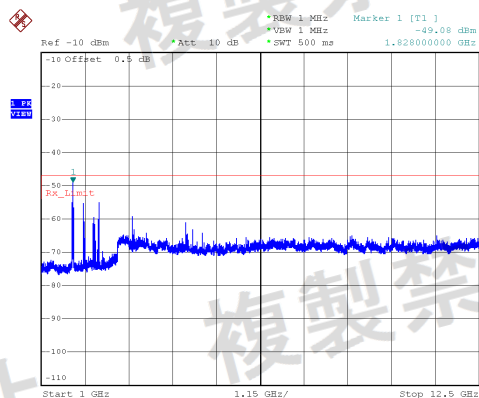


Date: 15.JAN.2026 14:06:56

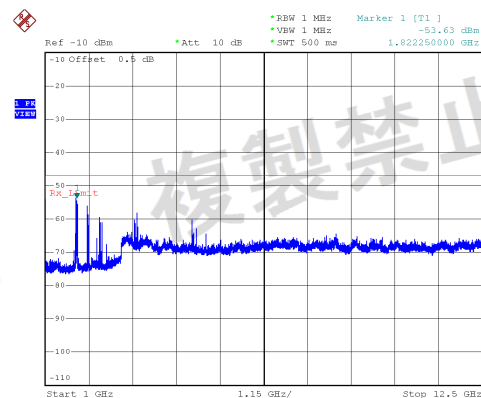
Modulation Standard: GFSK-2Mbps, CH19



Date: 15.JAN.2026 14:08:41



Date: 15.JAN.2026 14:07:32

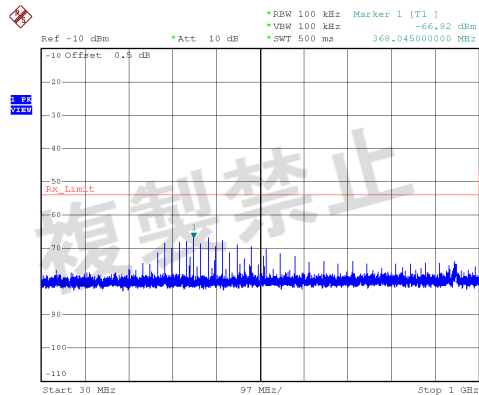


Date: 15.JAN.2026 14:09:17

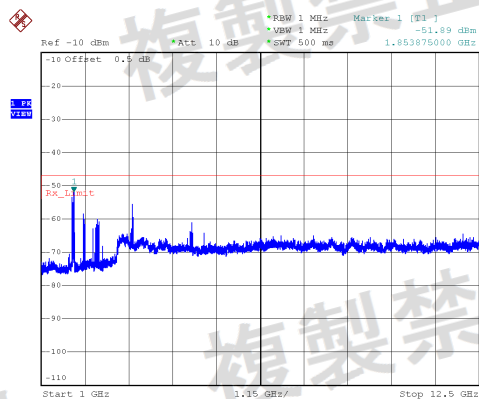


Vmax

Modulation Standard: GFSK-2Mbps, CH39



Date: 15.JAN.2026 14:10:39

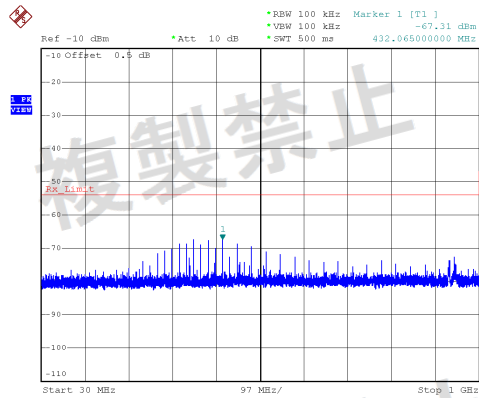


Date: 15.JAN.2026 14:11:14



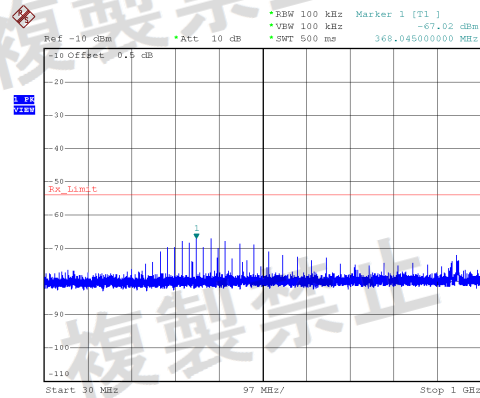
Vmax

Modulation Standard: GFSK-125kbps, CH00

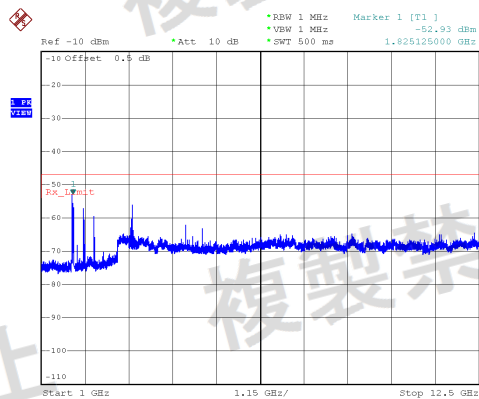


Date: 15.JAN.2026 15:04:04

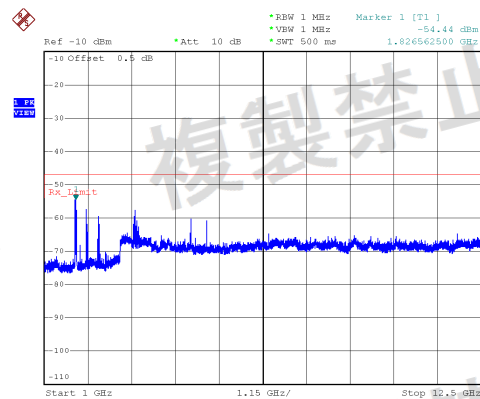
Modulation Standard: GFSK-125kbps, CH19



Date: 15.JAN.2026 15:05:38



Date: 15.JAN.2026 15:04:45

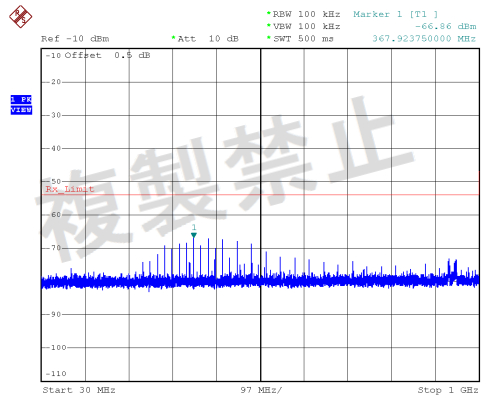


Date: 15.JAN.2026 15:06:14

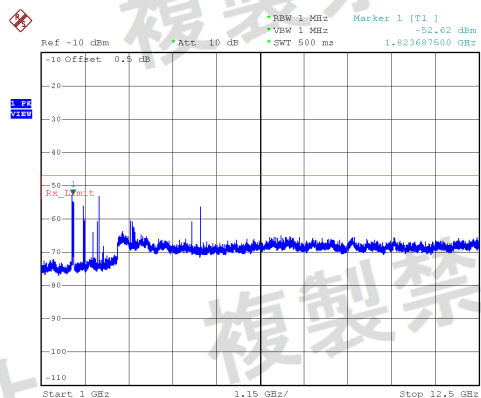


Vmax

Modulation Standard: GFSK-125kbps, CH39



Date: 15.JAN.2026 15:07:07

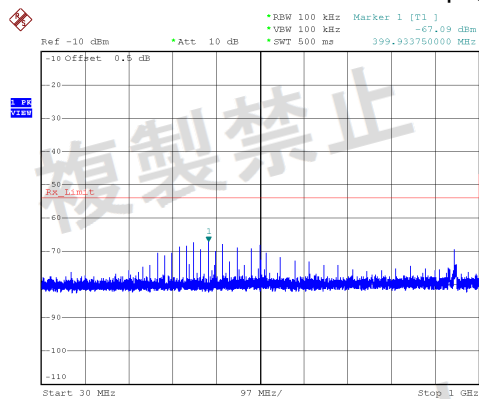


Date: 15.JAN.2026 15:27:46



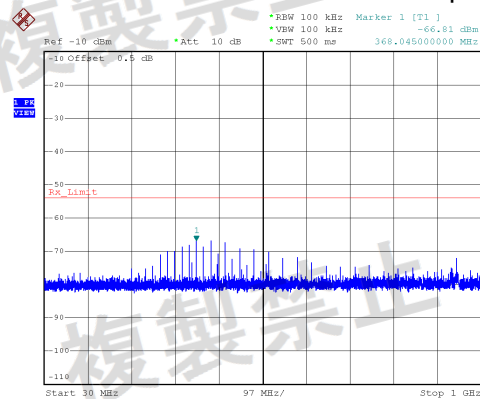
Vmax

Modulation Standard: GFSK-500kbps, CH00

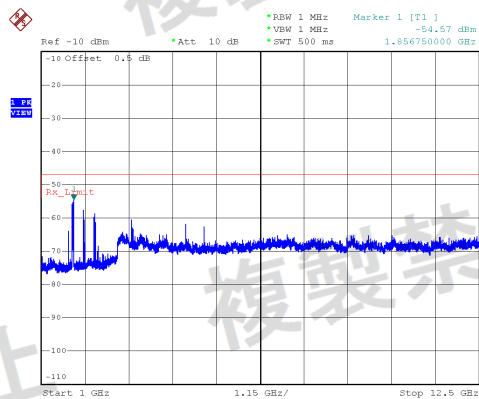


Date: 15.JAN.2026 16:02:37

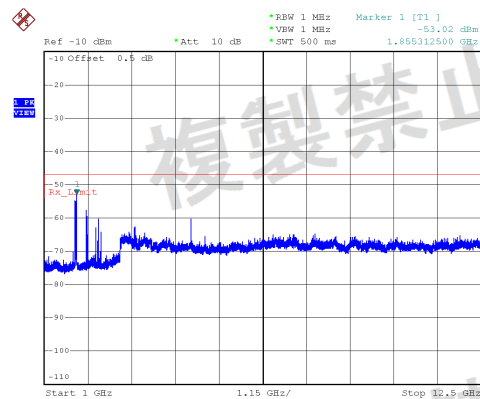
Modulation Standard: GFSK-500kbps, CH19



Date: 15.JAN.2026 16:04:30



Date: 15.JAN.2026 16:03:13

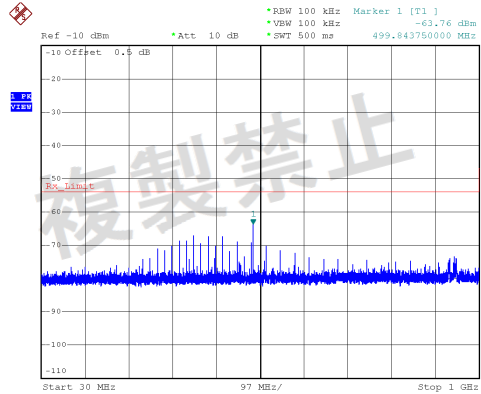


Date: 15.JAN.2026 16:05:06

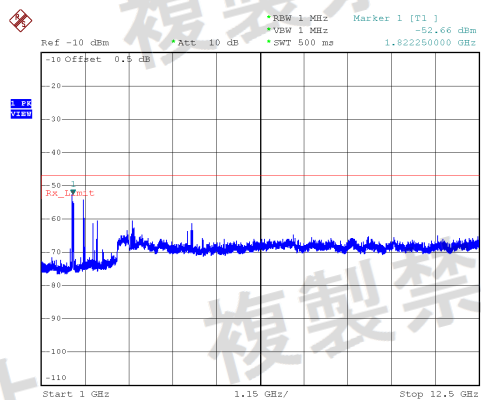


Vmax

Modulation Standard: GFSK-500kbps, CH39



Date: 15.JAN.2026 16:08:14

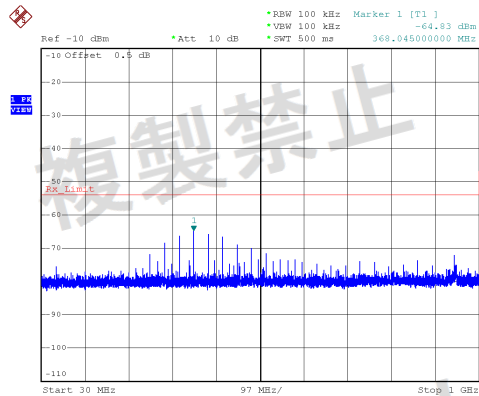


Date: 15.JAN.2026 16:08:49



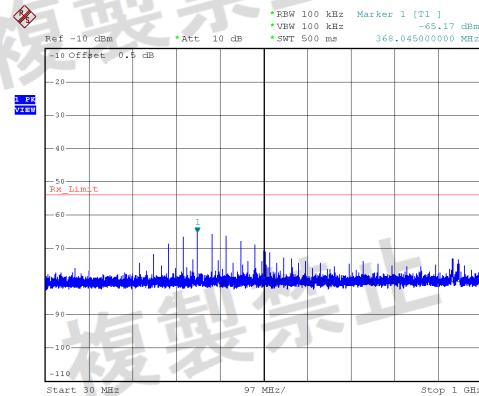
Vmin

Modulation Standard: GFSK-1Mbps, CH00

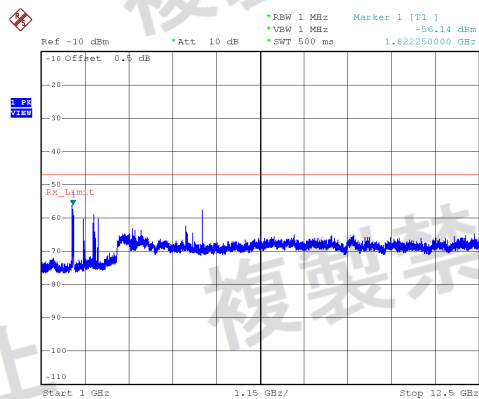


Date: 16.JAN.2026 08:27:03

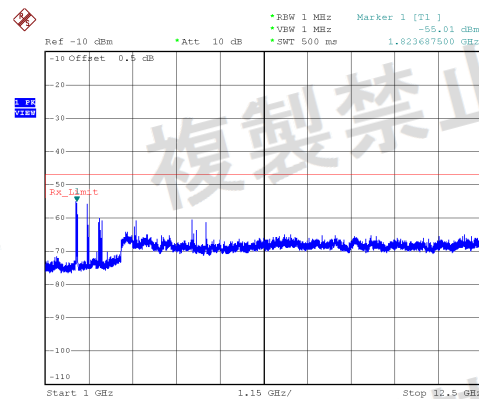
Modulation Standard: GFSK-1Mbps, CH19



Date: 16.JAN.2026 08:36:06



Date: 16.JAN.2026 08:35:10

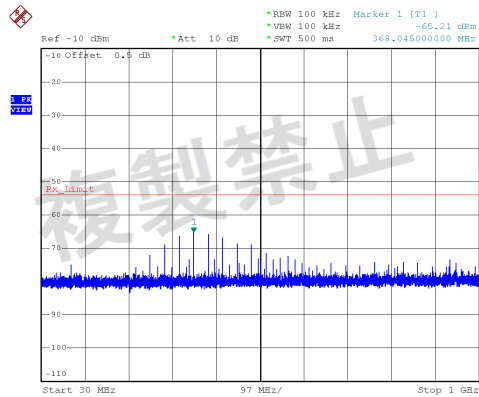


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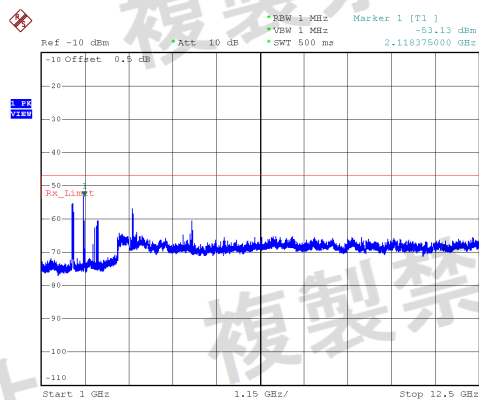


Vmin

Modulation Standard: GFSK-1Mbps, CH39



Date: 16.JAN.2026 08:39:36

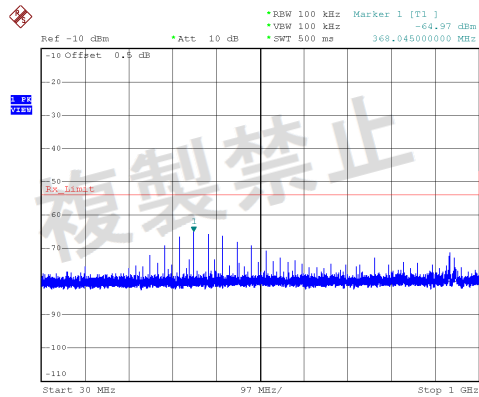


Date: 16.JAN.2026 08:40:12



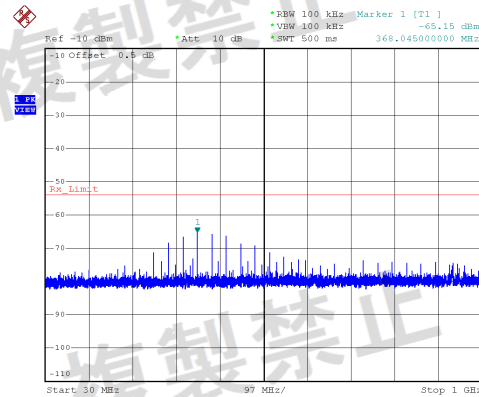
Vmin

Modulation Standard: GFSK-2Mbps, CH00

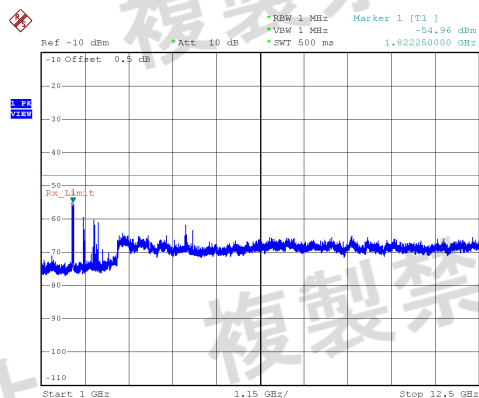


Date: 16.JAN.2026 09:27:42

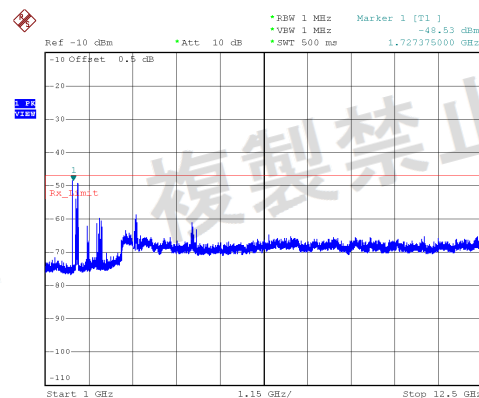
Modulation Standard: GFSK-2Mbps, CH19



Date: 16.JAN.2026 09:29:19



Date: 16.JAN.2026 09:28:18



Date: 16.JAN.2026 09:29:55

 V_{min}

Ref -10 dBm *Att 10 dB *RBW 100 kHz Marker 1 [T1] -65.41 dBm
 *VBW 100 kHz *SWT 500 ms 368.045000000 MHz

-10 Offset 0.5 dB

20
30
40
50
60
70
80
90
100
110

Start 30 MHz 97 MHz/ Stop 1 GHz

Ref -10 dBm *Att 10. dB *BW 1 MHz Marker 1 [F1] -53.78 dBm
 1.023687500 GHz

10 View

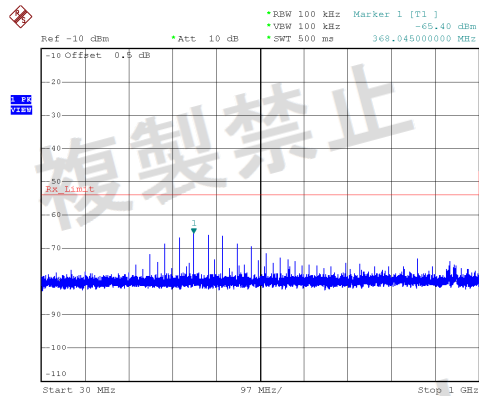
Start 1.0 GHz 1.15 GHz Stop 1.25 GHz

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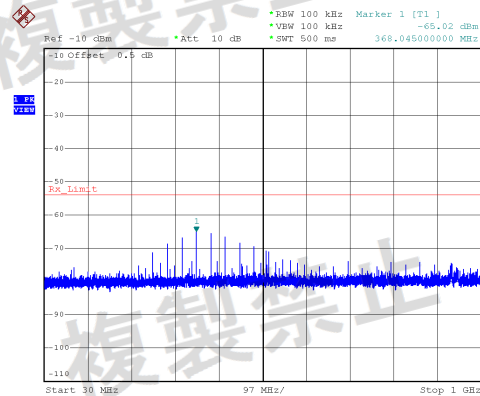
Vmin

Modulation Standard: GFSK-125kbps, CH00

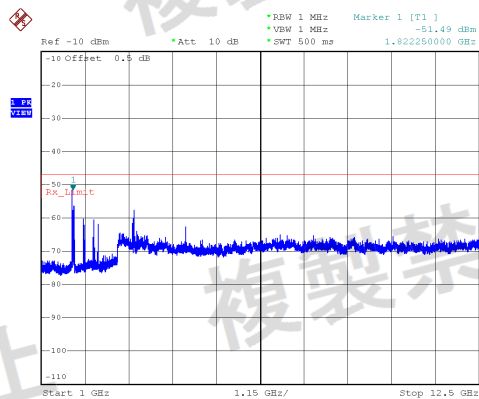


Date: 16.JAN.2026 10:11:52

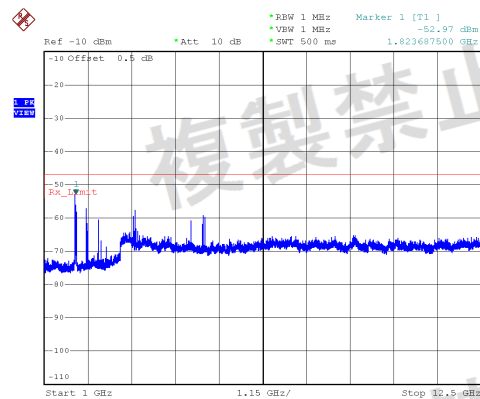
Modulation Standard: GFSK-125kbps, CH19



Date: 16.JAN.2026 10:15:06



Date: 16.JAN.2026 10:13:48

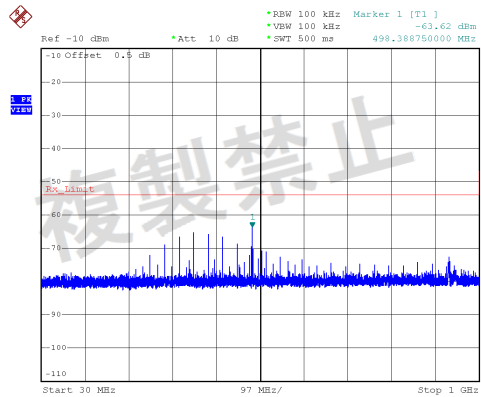


Date: 16.JAN.2026 10:15:42

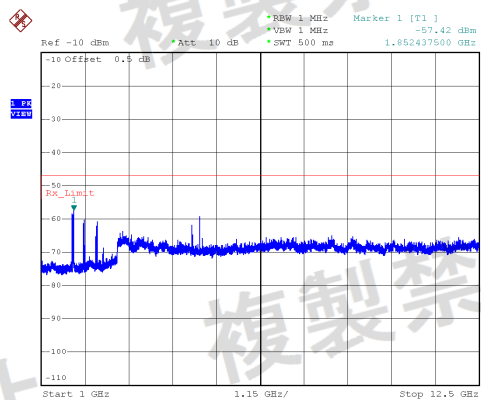


Vmin

Modulation Standard: GFSK-125kbps, CH39



Date: 16.JAN.2026 10:16:50

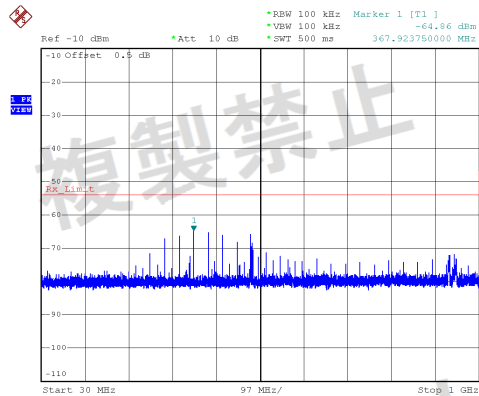


Date: 16.JAN.2026 10:17:27



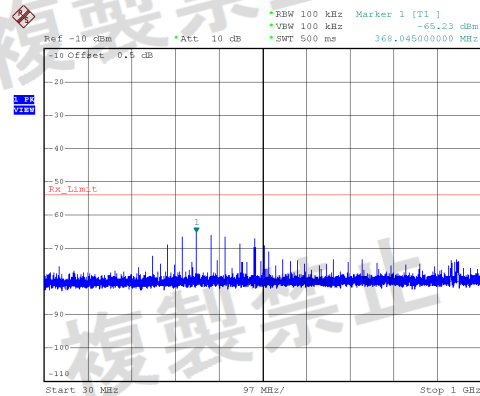
Vmin

Modulation Standard: GFSK-500kbps, CH00

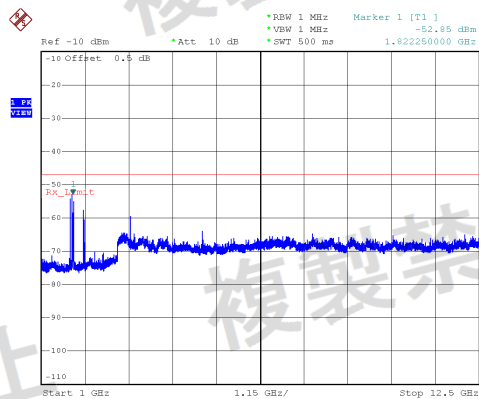


Date: 16.JAN.2026 10:48:22

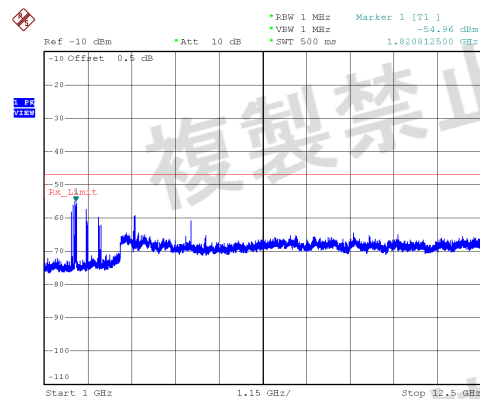
Modulation Standard: GFSK-500kbps, CH19



Date: 16.JAN.2026 10:49:54



Date: 16.JAN.2026 10:48:59

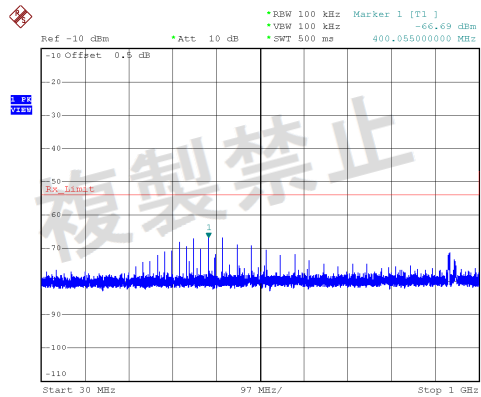


Date: 16.JAN.2026 10:50:31

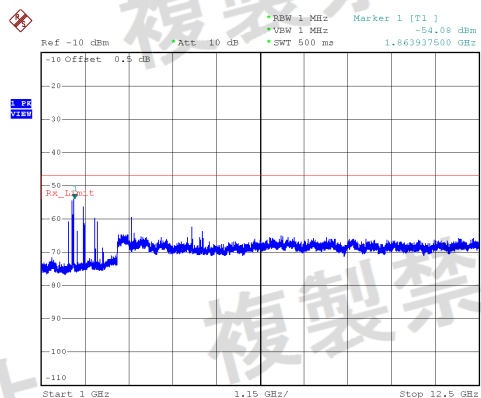


Vmin

Modulation Standard: GFSK-500kbps, CH39



Date: 16.JAN.2026 12:02:07



Date: 16.JAN.2026 12:02:45



6. Angular Width of Principal Radiation

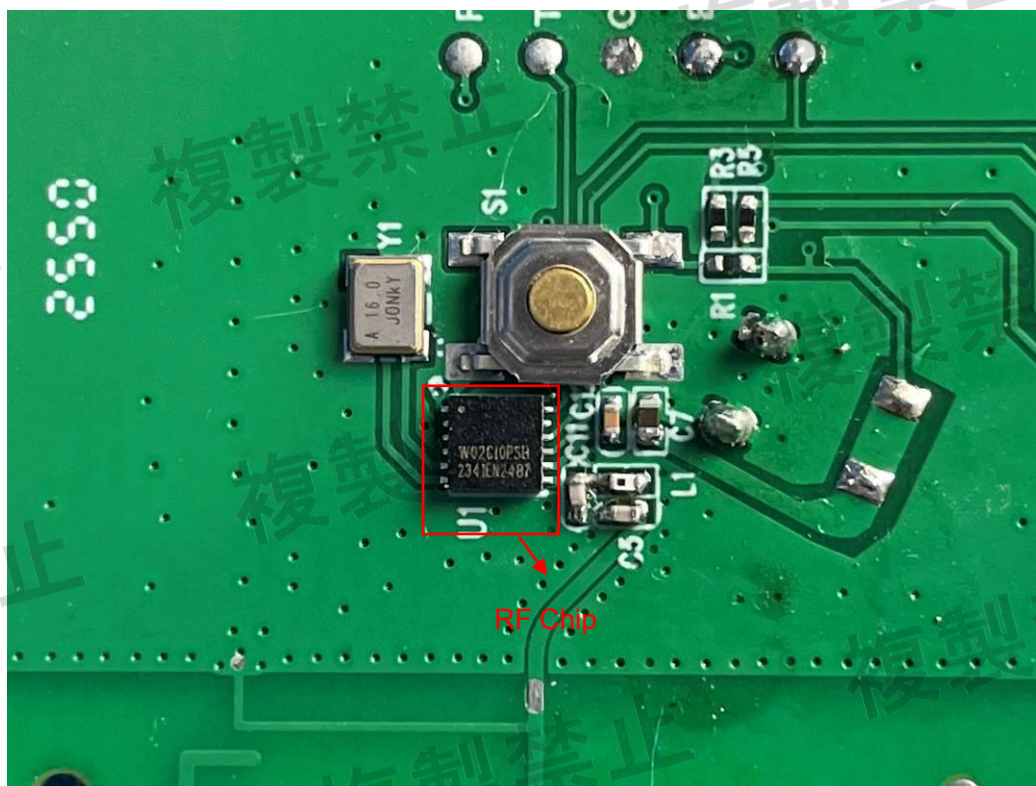
6.1 Test Result

Antenna Type	PCB Antenna
Antenna Gain	2.47
Cable Loss (dB)	1.00
EIRP (dBm)	11.69
Half Power Beam Angles (deg)	360.00
Limit of E.I.R.P (dBm)	12.14
Result	Pass



7. Construction Protection Confirmation

The Radio Equipment:
☐ Use Special Screw
☐ Metal Shielding is Soldered
☐ Use Ball Grid Array (BGA)
☒ The RF part is covered by glue.
☐ The shell is covered by glue.
☐ Ultrasonic Welding
Module/Chip:
☐ RF module/Chip Pins > 20 and Chip Pins distance < 1.5 mm



-----THE END OF REPORT-----