



RF TEST REPORT

Product Name: Bluetooth Headphone

Model Number: GRTOP-BTNE NK08

Issued For : Geo Corporation

OMC Bldg.8-8,Fujimi-cho,Naka-ku,Nagoya-shi,Aichi 460-0014
Japan

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

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TEST REPORT CERTIFICATION

Applicant: Geo Corporation

Address: OMC Bldg.8-8,Fujimi-cho,Naka-ku,Nagoya-shi,Aichi 460-0014
Japan

Manufacturer: Topalong Intelligent Technology (Dongguan) Co., Ltd

Address: Room 703, Unit 2, Building 1, No.20 Dongcheng Section, Shanhu
Road, Dongcheng Subdistrict, Dongguan City, Guangdong Province

Product Name: Bluetooth Headphone

Trademark: N/A

Model Number: GRTOP-BTNE NK08

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Article 2 Paragraph 1 of Item 19, annex 43 and annex 1, MIC Notice No.88 Appendix No.43	PASS

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Revision History

Rev.	Issue Date	Contents
00	Mar. 10, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: annex 43 of Notification No.88.

Rule Section	Description of Test	Judgement
3.2(4)	Frequency Error	PASS
3.2(7)&(8)	Occupied Bandwidth(99%)&Spread-spectrum Bandwidth(90%)	PASS
3.2(6)	Unwanted Emission Intensity	PASS
3.2(3)	Power Error	PASS
3.3	Limitation of Collateral Emission of Receiver	PASS
3.6	Transmission Radiation Power	PASS
3.6	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
3.4	Radio Interference Prevention Capability	PASS
3.2(9)	Spreading Factor	PASS
3.2(11)	Dwell Time	PASS
Note(2)	Carrier Sense Capability	N/A
3.7 Note(3)	Construction Protection Confirmation	PASS

Note:

- (1) "N/A" means test is not applicable in this Test Report.
- (2) Article 2 Paragraph 1 of Item 19.
- (3) Please refer to Japan Radio Protection Declaration.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	RF Output Power, Conducted	$\pm 0.71\text{dB}$
2	Conducted emission	$\pm 2.80\text{dB}$
3	Temperature	$\pm 0.5^{\circ}\text{C}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Bluetooth Headphone	
Test Model Number:	GRTOP-BTNE NK08	
Series Number:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK/ π /4-DQPSK/8DPSK
	Number Of Channel:	79 CH
	Antenna Designation:	PCB Antenna
	Antenna Gain(dBi):	-0.58
Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.		
Channel List:	Please refer to the Note 3.	
Rating:	Input: DC 5V 1A	
Battery:	Capacity: 280mAh Rated Voltage: 3.7V	
Hardware Version:	V0	
Software Version:	V0.0.1	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Lowest frequency		Middle frequency		Highest frequency	
00	2402	39	2441	78	2480



2.2 DESCRIPTION OF THE TEST MODES

Pretest Mode	Description
Mode 1	GFSK (CH00 CH39 CH78)
Mode 2	$\pi/4$ -DQPSK (CH00 CH39 CH78)
Mode 3	8DPSK (CH00 CH39 CH78)

2.3 TABLE FOR PARAMETERS OF THE TEST SOFTWARE SETTING

Type	Mode Or Modulation type	Power Class	Software For Testing
BR+EDR	GFSK	7	FCC_assist1.0.4
	$\pi/4$ -DQPSK	7	
	8DPSK	7	

2.4 TEST CONDITIONS

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power(V)	3.7	4.07	3.33
RF Chip Input DC Power(V)	3.300	3.332	3.269
Voltage Variation (%)	/	0.97	-0.94

Note: 1. Voltage Variation (%)

= (RF chip Input high or Low Voltage - RF chip Input Normal Voltage) / RF chip Input Normal Voltage * 100

2. RF chip Input DC power fluctuation is verified at the power input PIN of the RF chip.

When the input supply voltage to the EUT from the external power source is varied by +/- 10%, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

2.5 TEST ENVIRONMENTAL

During the measurement the environmental conditions

Normal Temperature: 24.5°C

Relative Humidity: 53 %

Air Pressure: 101.78 kPa



2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.7 EQUIPMENTS LIST FOR ALL TEST ITEMS

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	Classification
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05 2026-03-03	2026.03.04 2027-03-02	(c)
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05 2026-03-02	2026.03.04 2027-03-01	(c)
RF Automatic Test system	MW	MW100-R FCB	MW220324LG-33	2025.03.06 2026-03-03	2026.03.05 2027-03-02	(c)
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05 2026-03-03	2026.03.04 2027-03-02	(c)
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29	(c)
Attenuator	eastsheep	90db	N.A	2025.03.06 2026-03-02	2026.03.05 2027-03-01	(c)
Temperature & Humidity	JINGCHUAN G	BT-3	N.A	2025.03.10 2026-03-05	2026.03.09 2027-03-04	(c)
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025-07-30	2026-07-29	(c)
DC source	Keysight	E3634A	MY58036468	2025.03.06 2026-03-05	2026.03.05 2027-03-04	(c)

Remark:

(a) Calibration conducted by the National institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph(1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (ActNo. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c)

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

Test Equipment Calibration

All of the test equipment is effective use and calibration certification institution, LISAI, the address is No.8.South Street Shi li institute Guangzhou.Guangdong.China



3. FREQUENCY ERROR

3.1 LIMIT

Item	Limits
Frequency Error	$\pm 50\text{ppm}$

3.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

3.3 TEST SETUP



3.4 TEST RESULT

For the measurement records, refer to the appendix I.



4. ANTENNA POWER

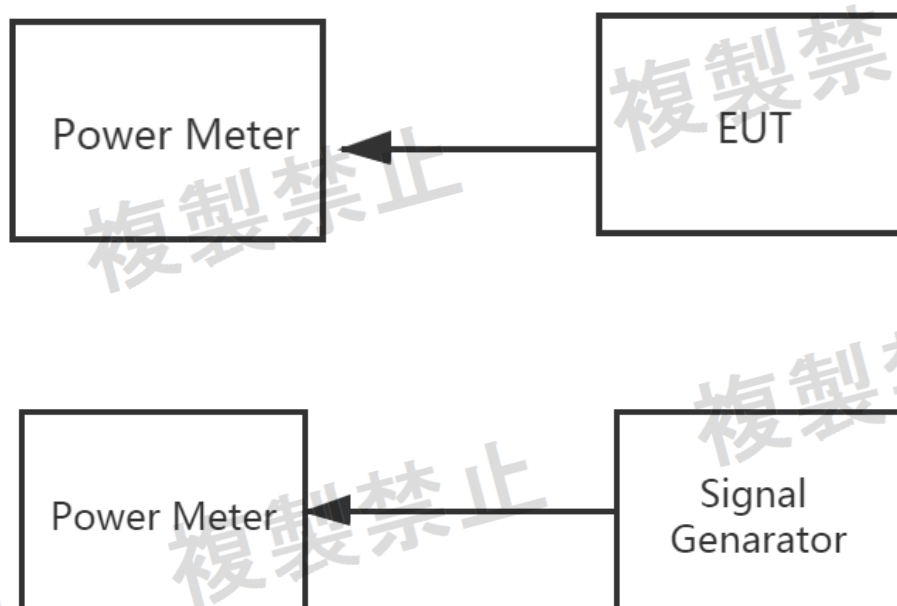
4.1 LIMIT

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2400 – 2483.5 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz, 802.11b/g/n HT20) $\leq 5\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz, 802.11n HT40) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Power Error	+20%

4.2 TEST PROCEDURE

1. EUT turn to test frequency channel and keep continuous transmitting.
2. Reading the output power from the Power meter as P_{EUT} .
3. Turn the Signal generator to frequency channel the same as the EUT.
4. Turn the level of Signal generator, scan with the power meter until the power equal to P_{EUT} , the level of Signal generator recorded as "P".
5. The antenna power of EUT is "P".
6. EIRP power = "P"+antenna gain.

4.3 TEST SETUP



4.4 TEST DEVIATION

There is no deviation with the original standard.

4.5 TEST RESULT

For the measurement records, refer to the appendix I.



5. RADIATION POWER

5.1 LIMIT

Item	Limits
Radiation power EIRP	FH from 2400 – 2483.5 MHz ,EIRP $\leq$ 6.91dBm/MHz CCK/OFDM/DBPSK (2400~2483.5MHz) OFDM or DS other than (802.11b/g/n HT20) EIRP $\leq$ 12.14 dBm/MHz OFDM or DS other than (802.11n HT40) EIRP $\leq$ 9.13dBm/MHz Other from 2400~2483.5MHz: 12.14 dBm or less

5.2 TEST RESULT

For the measurement records, refer to the appendix I.



6. OCCUPIED BANDWIDTH (99%) & SPREAD BANDWIDTH (90%)

6.1 LIMIT

Item	Limits
Occupied Band Width:	≤83.5MHz (FH;FH+DS;FH+OFDM) ≤26MHz (Others)
Spreading Bandwidth:	No requirement

6.2 TEST PROCEDURE

1. Setting of SA is following as: GFSK/ π /4-DPSK/8 DPSK RB: 1MHz / VB: 1MHz / SPAN: 83.5MHz / AT: 25dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For FH or OFDM Device) or 83.5MHz (For FHSS Device).
3. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.

6.3 TEST SETUP



6.4 TEST DEVIATION

There is no deviation with the original standard.

6.5 TEST RESULT

For the measurement records, refer to the appendix I.



7. UNWANTED EMISSION INTENSITY MEASUREMENT

7.1 LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W/MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

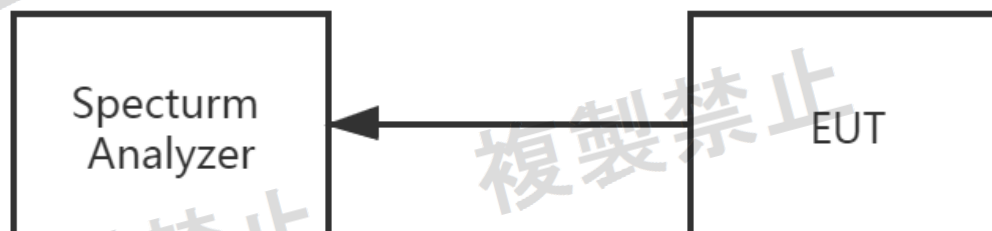
7.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	30-1000MHz: 1 MHz/1 MHz
	Above 1GHz: 1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB: 1MHz / VB: 1MHz, Above 1GHz RB: 1MHz / VB: 1MHz / Sweep time: Auto/ Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz. Then to mark peak reading value + cable loss shall be less than 2.5 μW .
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz. Then to mark peak reading value + cable loss shall be less than 2.5 μW .
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μW .
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz. Then to mark peak reading value + cable loss shall be less than 25 μW .
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12750MHz. Then to mark peak reading value + cable loss shall be less than 2.5 μW .
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.



7.3 TEST SETUP



7.4 TEST DEVIATION

There is no deviation with the original standard.

7.5 TEST RESULT

For the measurement records, refer to the appendix I.



8. DWELL TIME

8.1 LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

8.2 TEST PROCEDURES

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4 \text{ seconds}$. (to be determined for each mode, DH1, DH3, DH5)

8.3 TEST SETUP



8.4 TEST RESULT

Duty-cycle = $[\text{on time}/\text{total time}] \times 100\%$

Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4 \text{ seconds}$

For the measurement records, refer to the appendix I.



9. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

9.1 LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

9.2 TEST PROCEDURES

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

9.3 TEST RESULT

For the measurement records, refer to the appendix I.



10. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

10.1 LIMIT

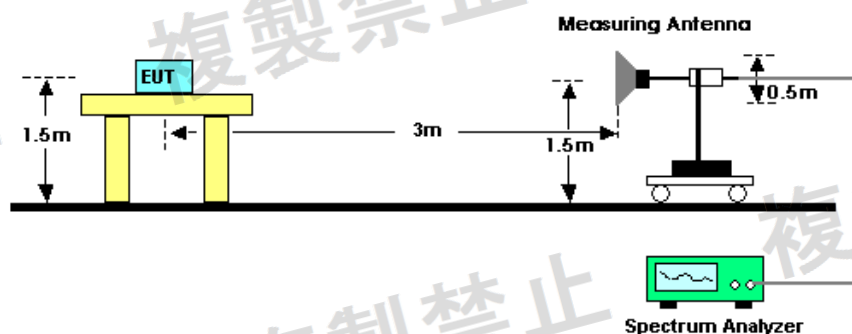
Item	Limits
3dB antenna beam width	$e \leq 360/A$ (The A is 10 in maximum) $A = \{EIRP \text{ Power [mW/MHz]} / \{2.14\text{dBi} + \text{output power (10mW /MHz, 3mW/MHz)}\}\}$ Shall be 1 when A is lower than 1

10.2 TEST PROCEDURES

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 11.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. "E" is the half-power beam width (angle between two points at which radiated power becomes 1/2)
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{EIRP \text{ Power [mW/MHz]} / \{2.14\text{dBi} + \text{output power (10mW /MHz, 3mW/MHz)}\}\}$
Shall be 1 when A is lower than 1

10.3 TEST SETUP



10.4 TEST DEVIATION

There is no deviation with the original standard.

10.5 TEST RESULT

As the EUT max EIRP is less than 6.91dBm/MHz, so the test is not applicable and skipped.



11. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

11.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

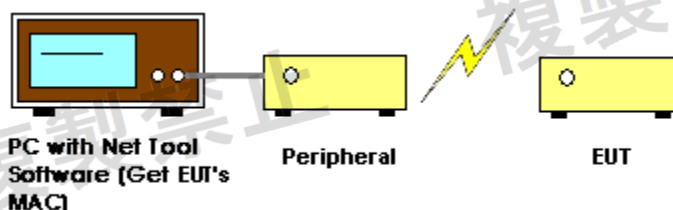
11.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

11.3 TEST PROCEDURES

- In the case that the EUT has the function of automatically transmitting the identification code:
 - Transmit the predetermined identification codes from EUT.
 - Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code:
 - Transmit the predetermined identification codes from the counterpart.
 - Check if communication is normal.
 - Transmit the signals other than predetermined ID codes from the counterpart.
 - check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

11.4 TEST SETUP



11.5 TEST DEVIATION

There is no deviation with the original standard.

11.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.



11.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILIT

The MAC address is 7F:D0:93:60:68:E7.

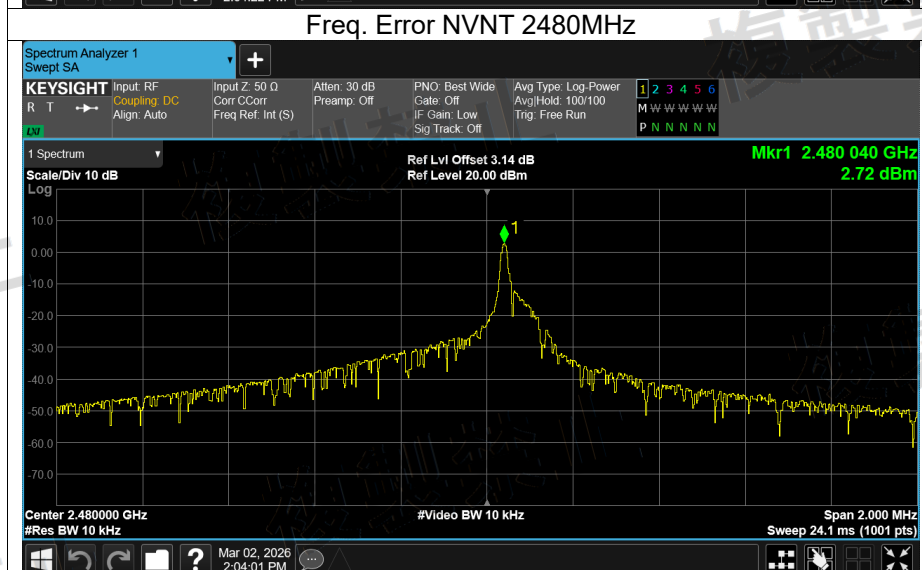
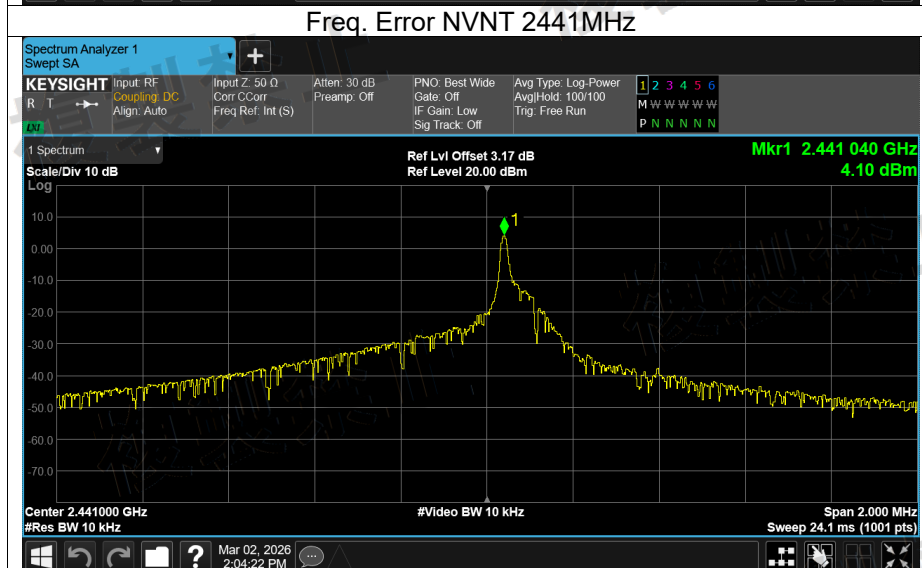
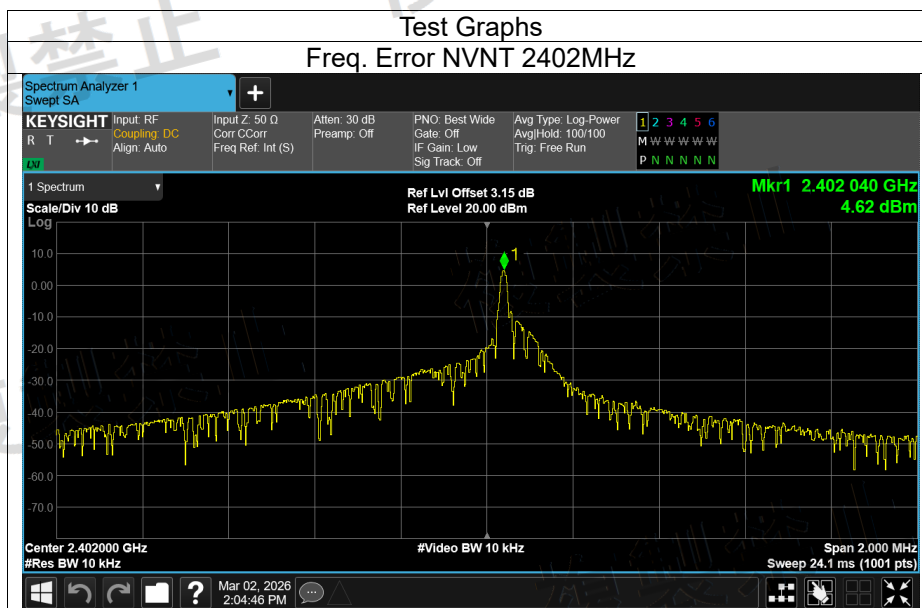




APPENDIX I - TEST RESULTS

FREQUENCY ERROR

Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	2402.04	40000	16.65	±50	Pass
NVNT	2441	2441.04	40000	16.39	±50	Pass
NVNT	2480	2480.04	40000	16.13	±50	Pass



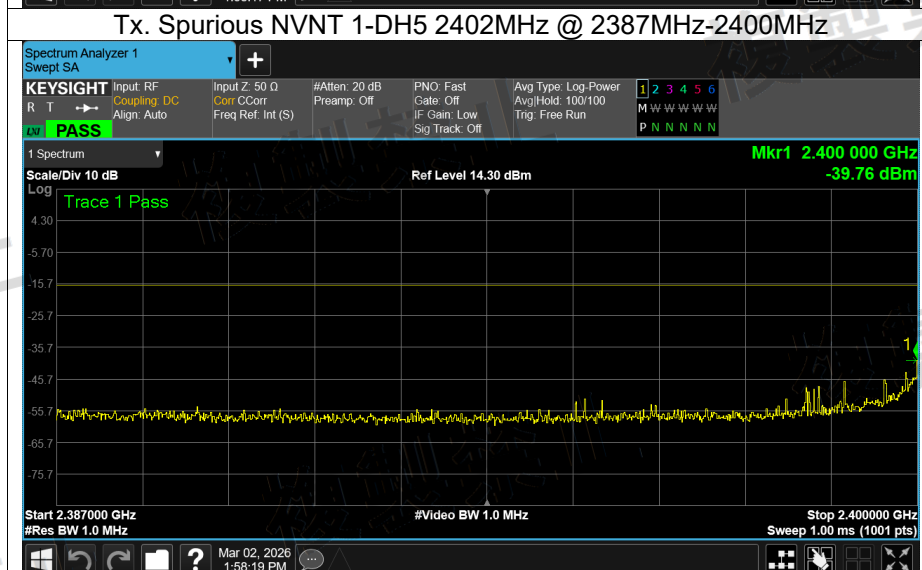
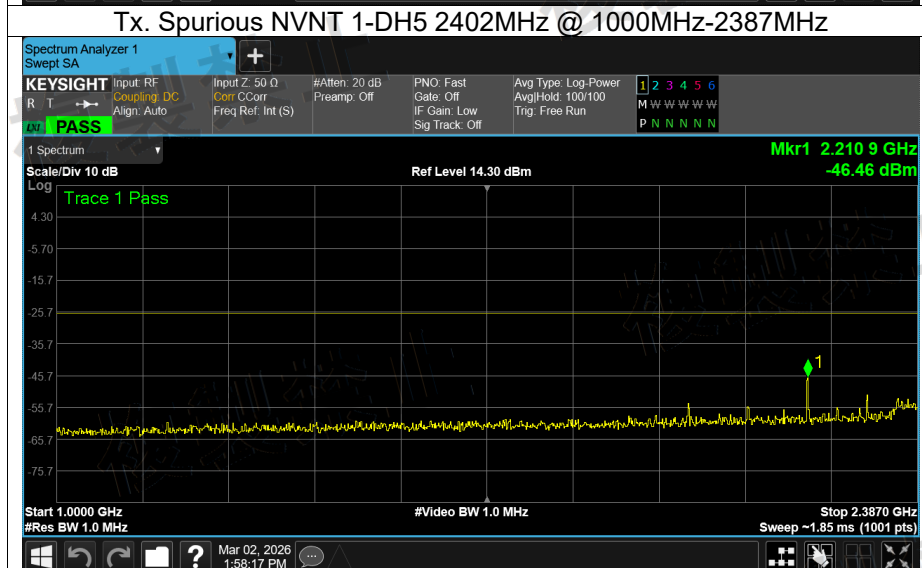
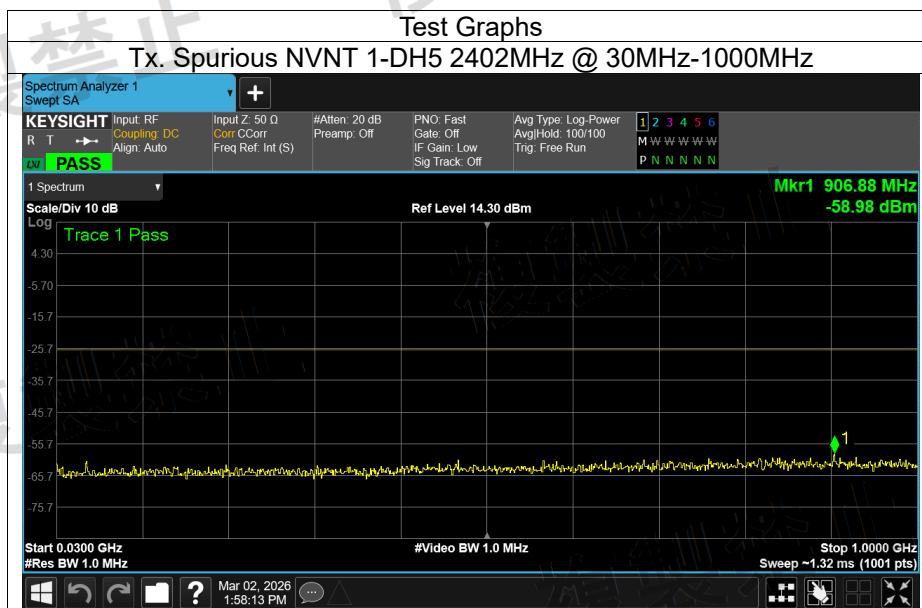


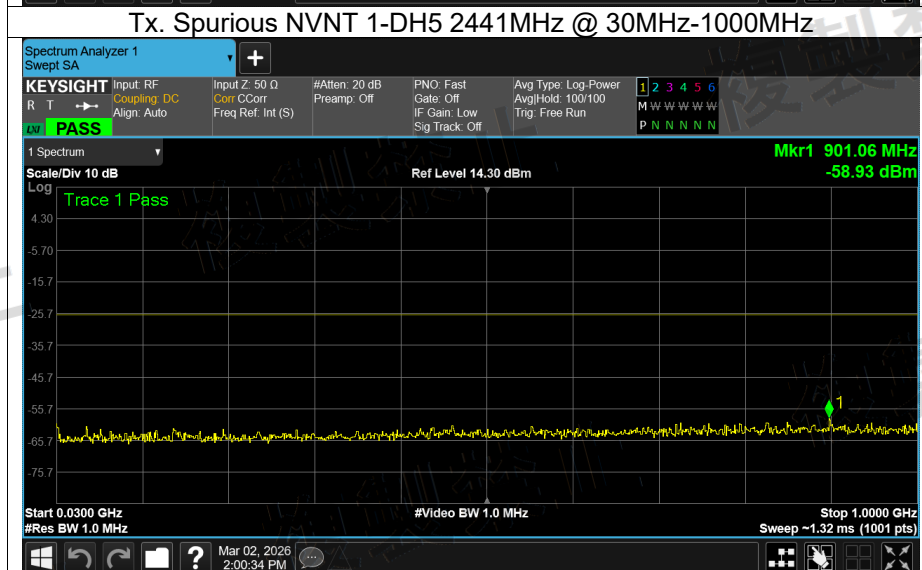
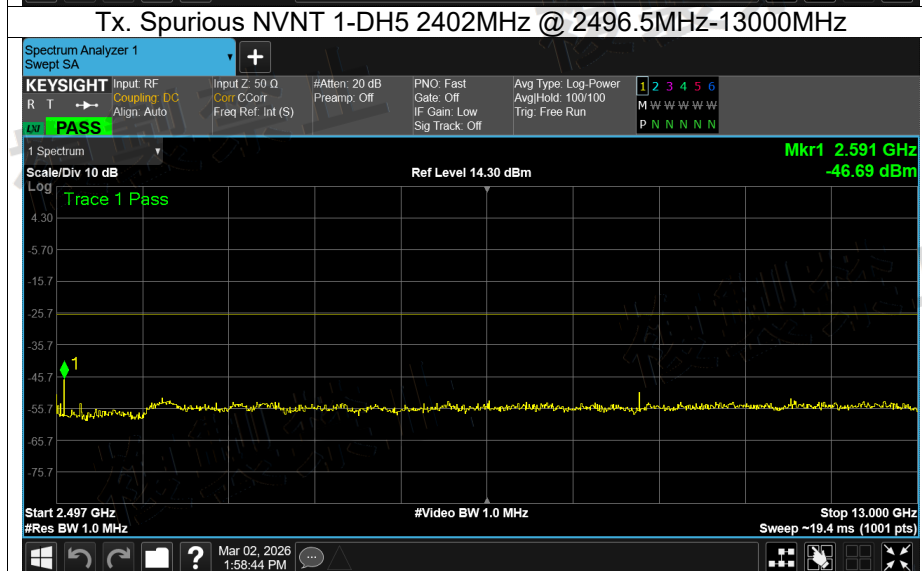
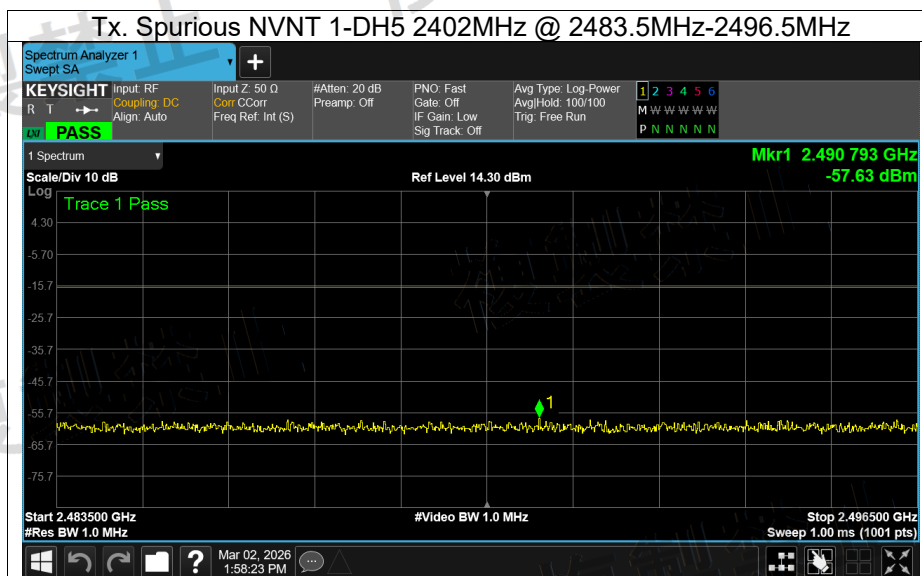
TX SPURIOUS EMISSION

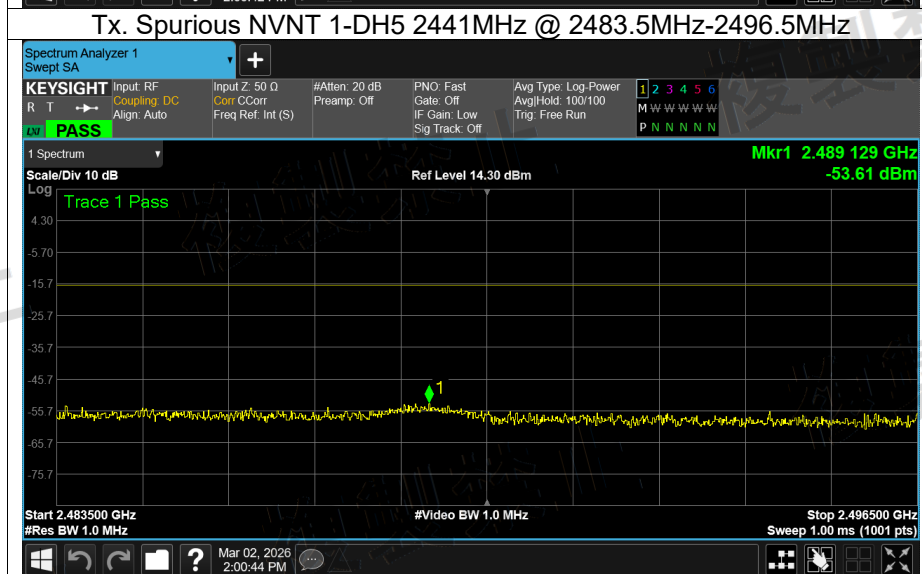
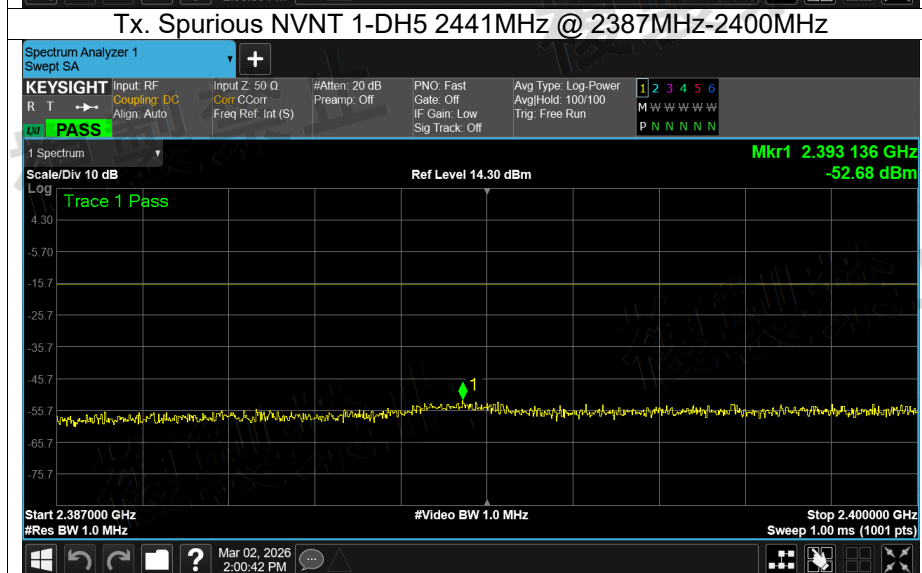
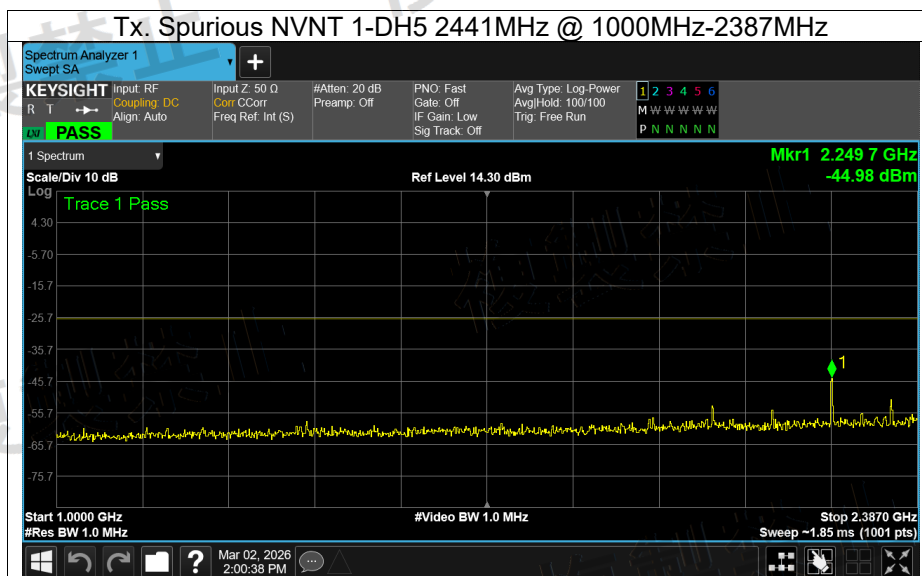
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start (uW)	Limit Stop (uW)	Verdict
NVNT	1-DH5	2402	30-1000	906.88	-58.98	NA	0.0013	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	1000-2387	2210.85	-46.45	NA	0.0226	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	2387-2400	2400.00	-39.76	NA	0.1057	NA	25	25	Pass
NVNT	1-DH5	2402	2483.5-2496.5	2490.79	-57.62	NA	0.0017	NA	25	25	Pass
NVNT	1-DH5	2402	2496.5-13000	2591.03	-46.69	NA	0.0214	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	30-1000	901.06	-58.93	NA	0.0013	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	1000-2387	2249.69	-44.97	NA	0.0318	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	2387-2400	2393.14	-52.68	NA	0.0054	NA	25	25	Pass
NVNT	1-DH5	2441	2483.5-2496.5	2489.13	-53.61	NA	0.0044	NA	25	25	Pass
NVNT	1-DH5	2441	2496.5-13000	2633.05	-46.82	NA	0.0208	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	30-1000	806.97	-58.87	NA	0.0013	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	1000-2387	2288.52	-44.92	NA	0.0322	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	2387-2400	2393.32	-56.98	NA	0.002	NA	25	25	Pass
NVNT	1-DH5	2480	2483.5-2496.5	2483.69	-52.99	NA	0.005	NA	25	25	Pass
NVNT	1-DH5	2480	2496.5-13000	2675.06	-46.67	NA	0.0215	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	30-1000	888.45	-59.99	NA	0.001	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	1000-2387	2210.85	-47.79	NA	0.0166	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	2387-2400	2399.87	-38.44	NA	0.1432	NA	25	25	Pass
NVNT	2-DH5	2402	2483.5-2496.5	2489.55	-57.33	NA	0.0018	NA	25	25	Pass
NVNT	2-DH5	2402	2496.5-13000	2570.02	-28.15	-67.15	1.5311	0.0002	2.5	2.5	Pass
NVNT	2-DH5	2441	30-1000	808.91	-60.00	NA	0.001	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	1000-2387	2249.69	-46.34	NA	0.0232	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	2387-2400	2393.08	-53.29	NA	0.0047	NA	25	25	Pass
NVNT	2-DH5	2441	2483.5-2496.5	2488.73	-53.34	NA	0.0046	NA	25	25	Pass
NVNT	2-DH5	2441	2496.5-13000	2633.05	-48.72	NA	0.0134	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	30-1000	882.63	-58.71	NA	0.0013	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	1000-2387	2288.52	-46.83	NA	0.0207	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	2387-2400	2398.21	-57.50	NA	0.0018	NA	25	25	Pass
NVNT	2-DH5	2480	2483.5-2496.5	2483.60	-55.91	NA	0.0026	NA	25	25	Pass
NVNT	2-DH5	2480	2496.5-13000	2675.06	-48.29	NA	0.0148	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	30-1000	62.98	-59.56	NA	0.0011	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	1000-2387	2210.85	-46.81	NA	0.0208	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	2387-2400	2399.57	-37.47	NA	0.1791	NA	25	25	Pass
NVNT	3-DH5	2402	2483.5-2496.5	2494.78	-56.78	NA	0.0021	NA	25	25	Pass
NVNT	3-DH5	2402	2496.5-13000	2528.01	-38.45	NA	0.1429	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	30-1000	937.92	-59.83	NA	0.001	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	1000-2387	2249.69	-45.94	NA	0.0255	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	2387-2400	2399.56	-52.34	NA	0.0058	NA	25	25	Pass
NVNT	3-DH5	2441	2483.5-2496.5	2484.44	-54.19	NA	0.0038	NA	25	25	Pass

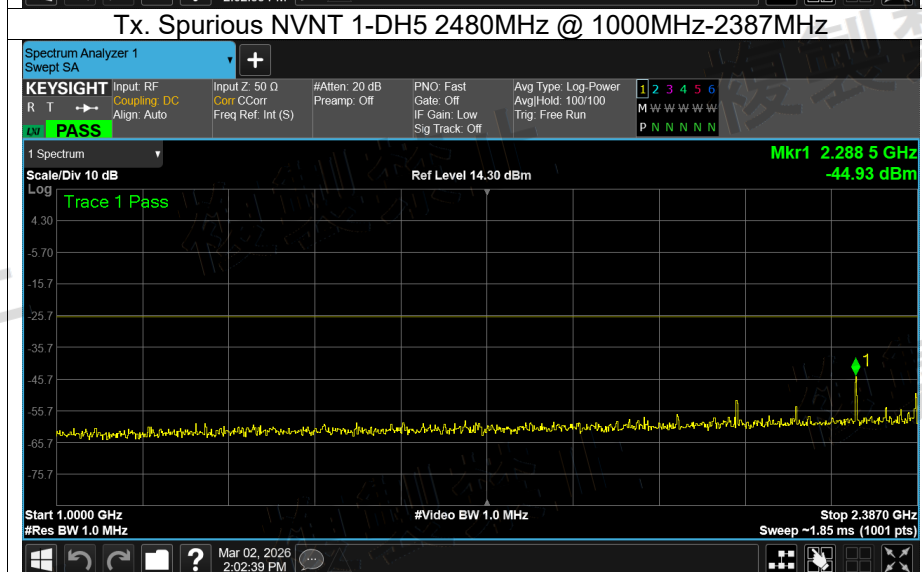
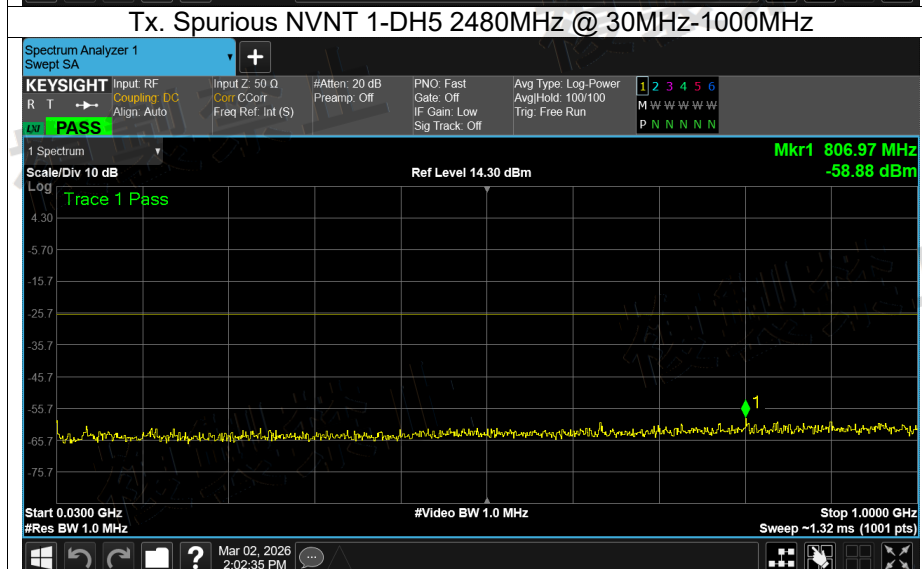
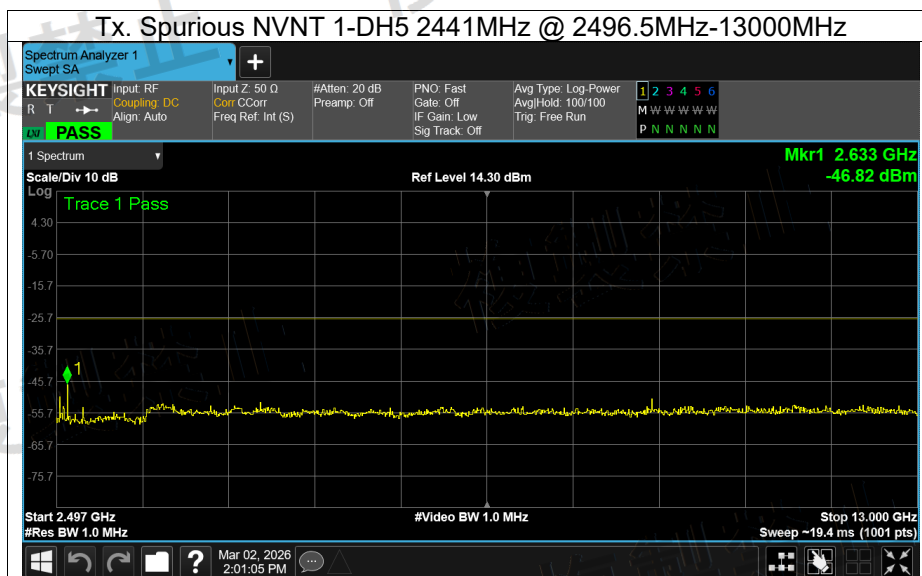


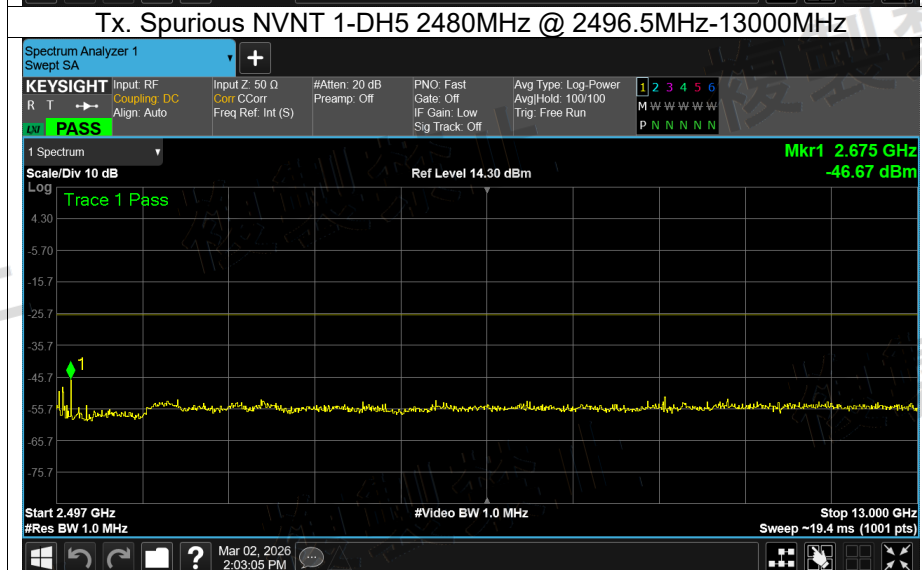
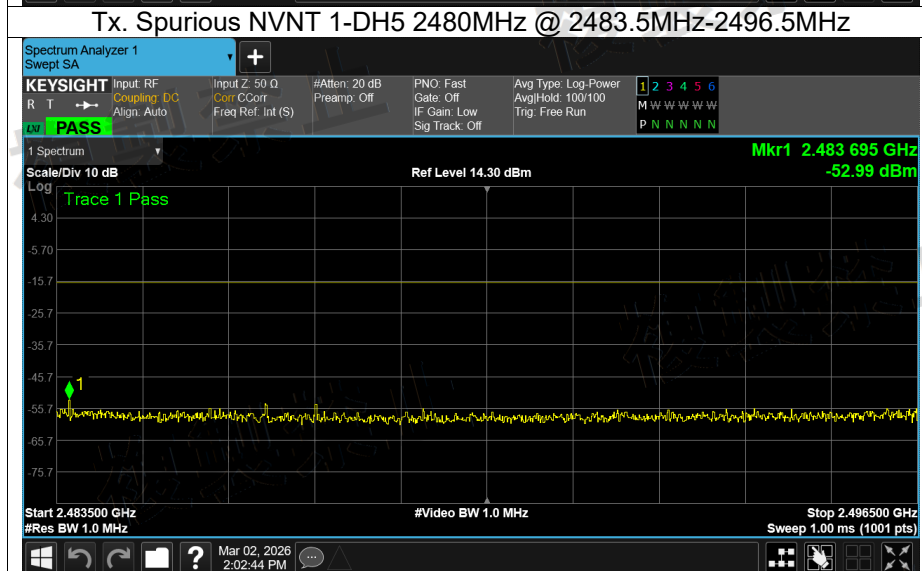
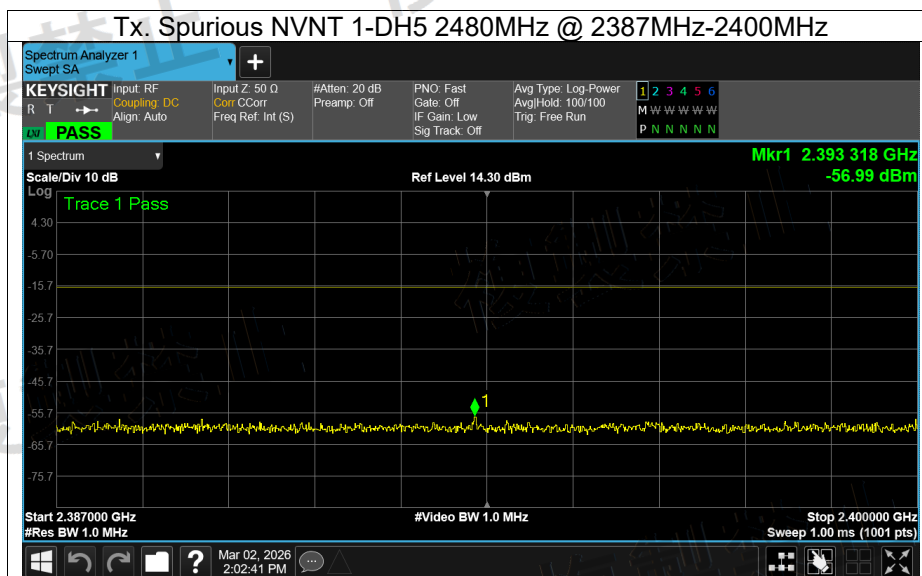
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NVNT	3-DH5	2480	30-1000	1000.00	-59.36	NA	0.0012	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	1000-2387	2288.52	-45.01	NA	0.0316	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	2387-2400	2391.43	-57.03	NA	0.002	NA	25	25	Pass
NVNT	3-DH5	2480	2483.5-24 96.5	2486.58	-50.04	NA	0.0099	NA	25	25	Pass
NVNT	3-DH5	2480	2496.5-13 000	2528.01	-32.46	NA	0.5675	NA	2.5	2.5	Pass

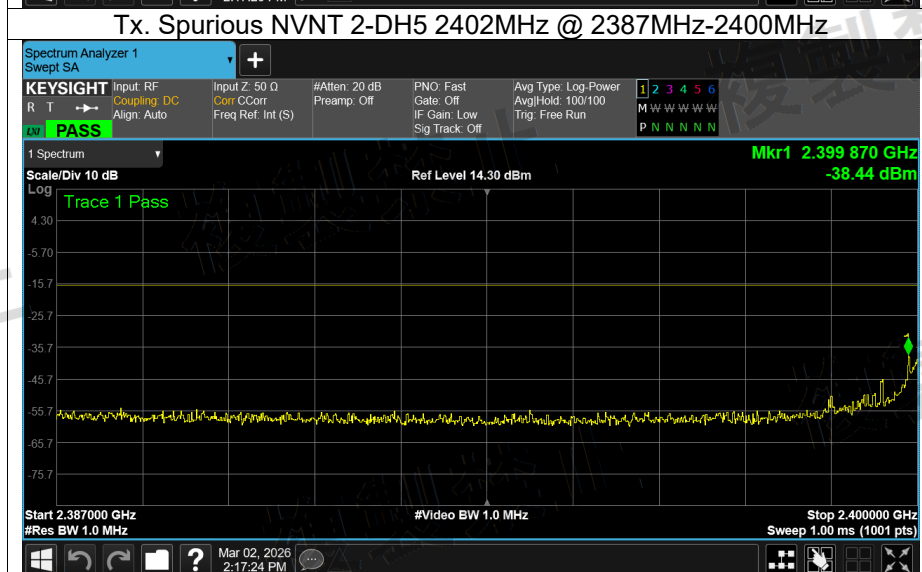
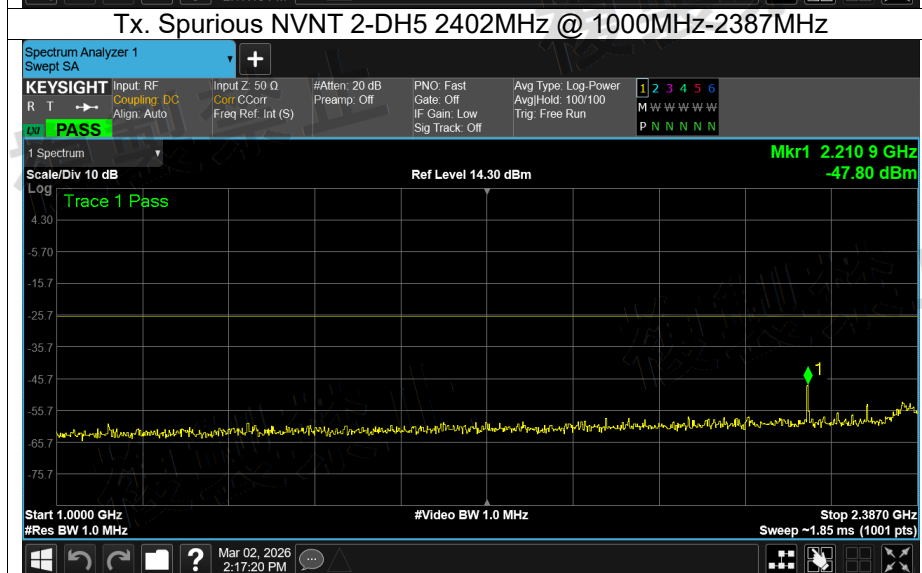
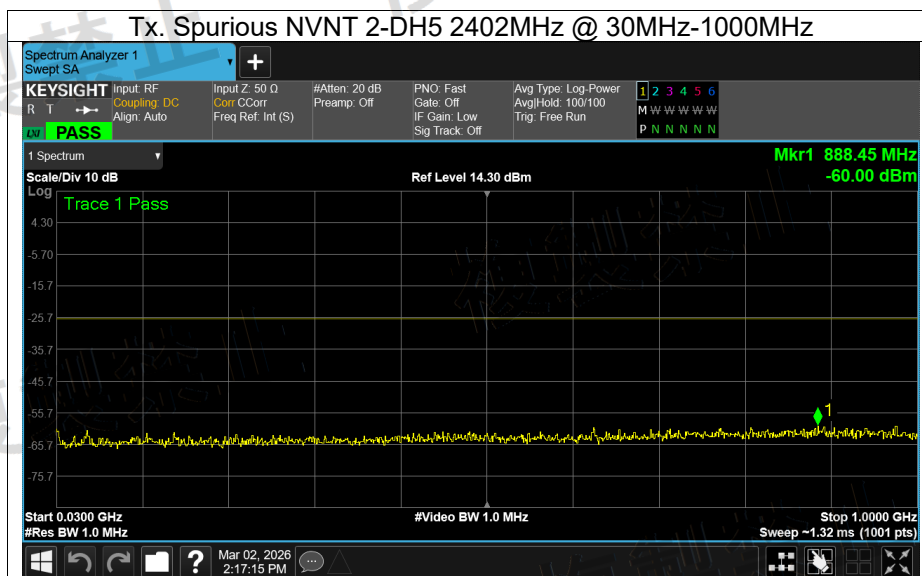


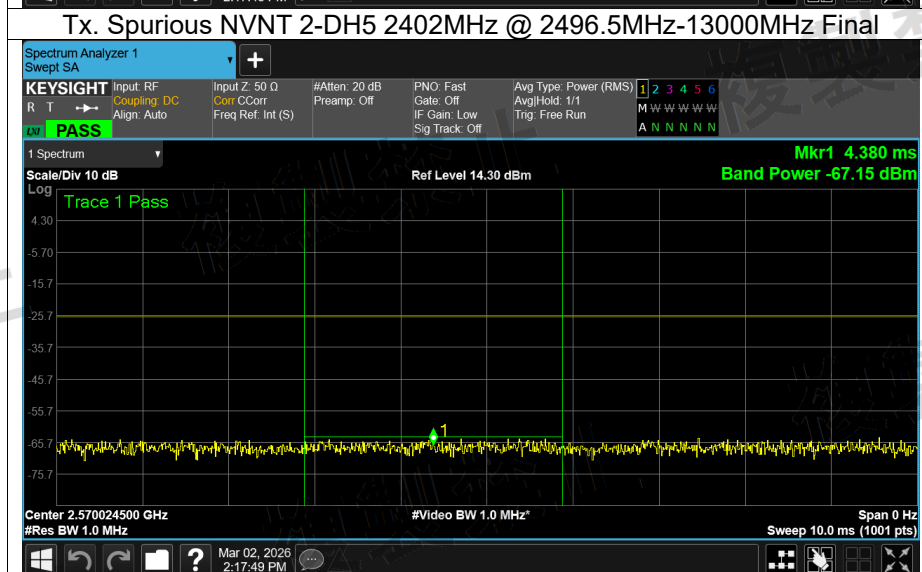
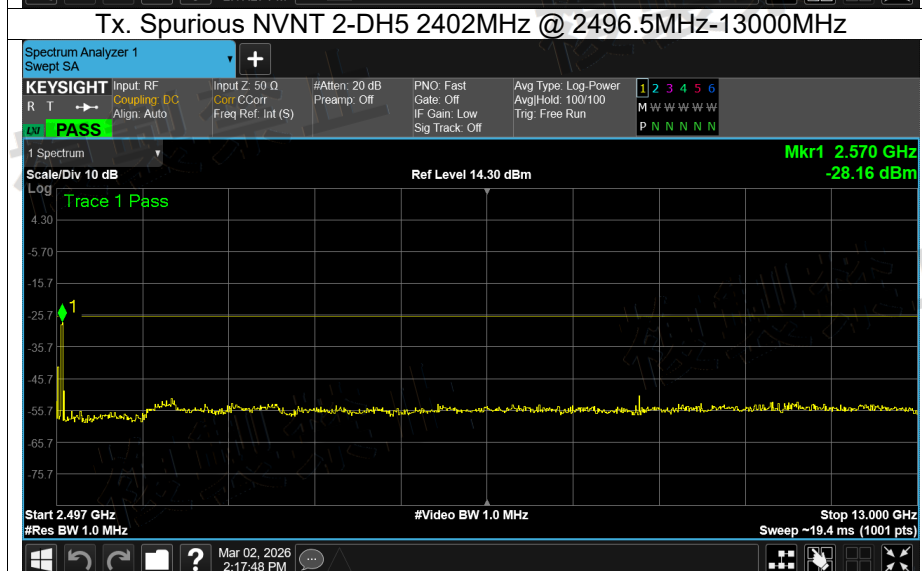
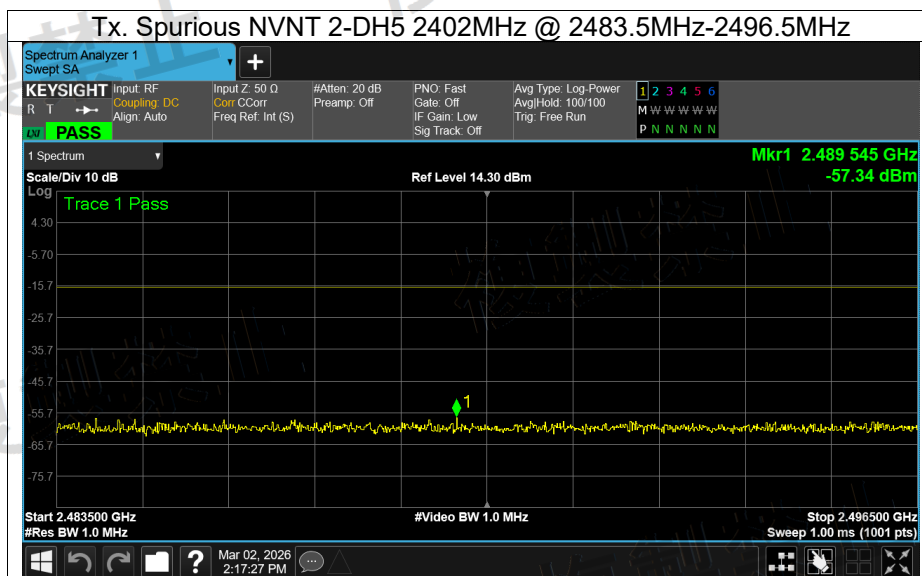


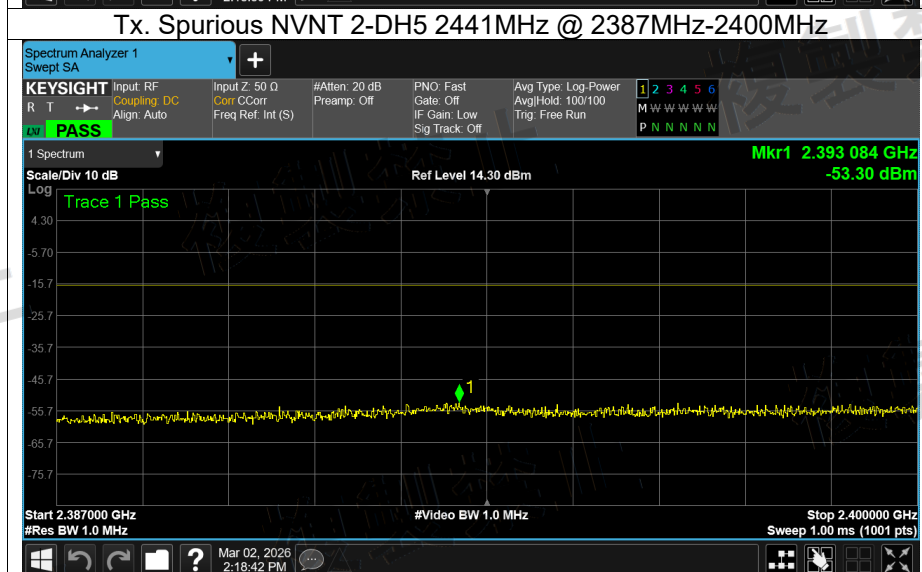
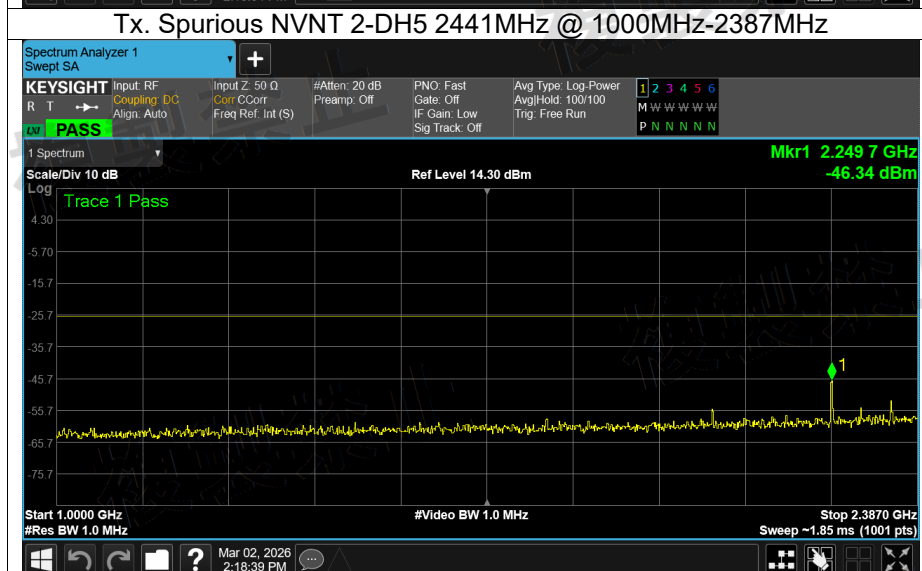
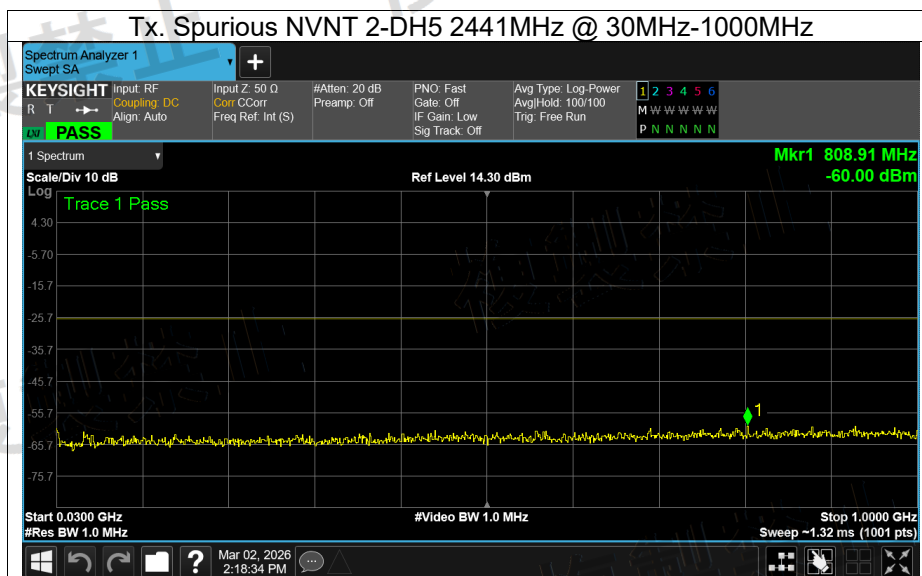


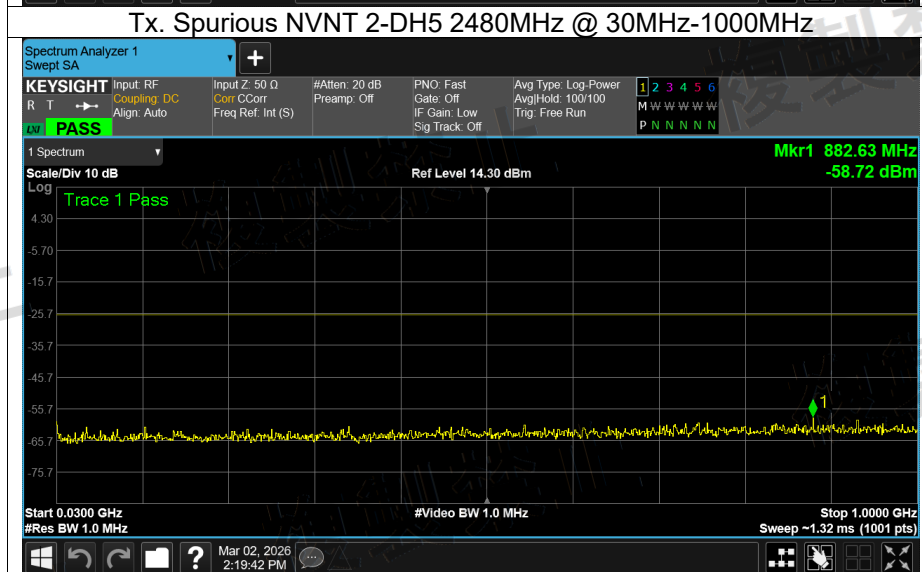
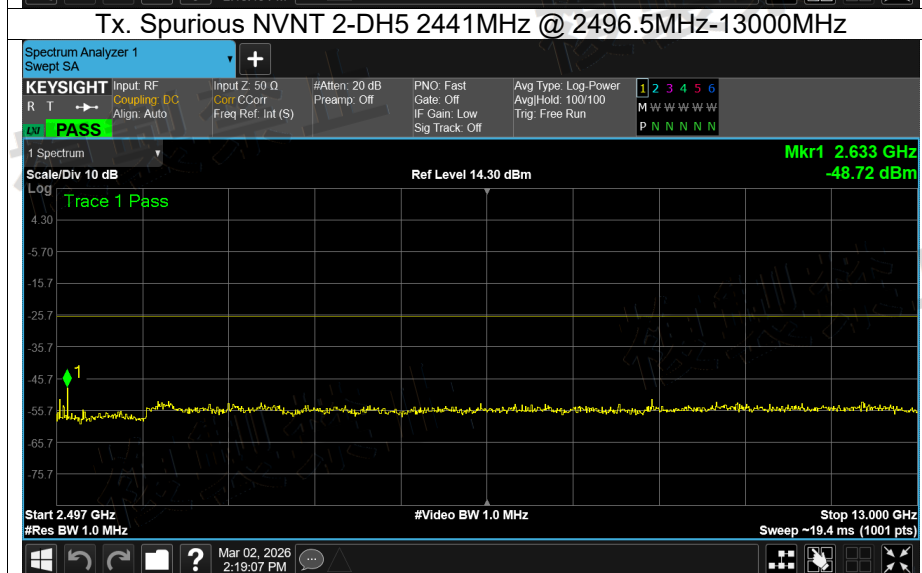
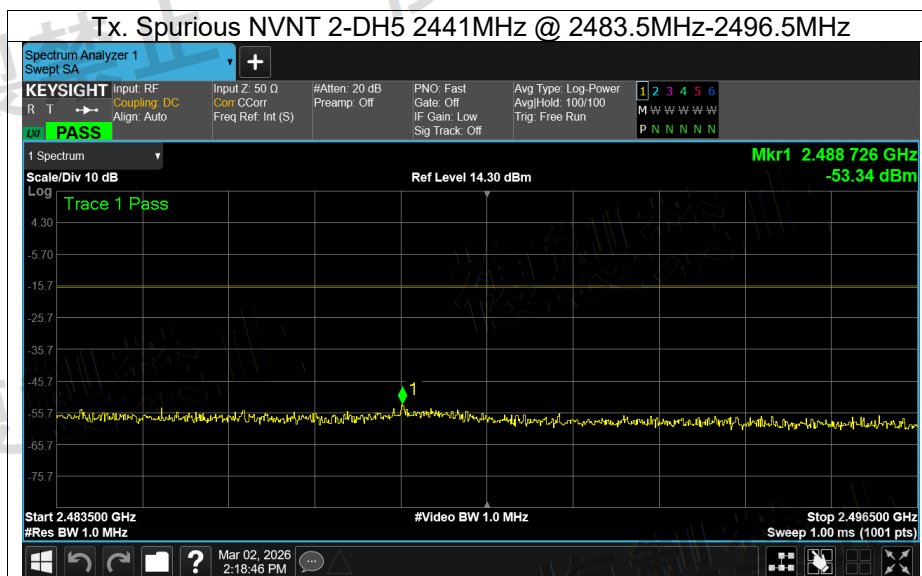


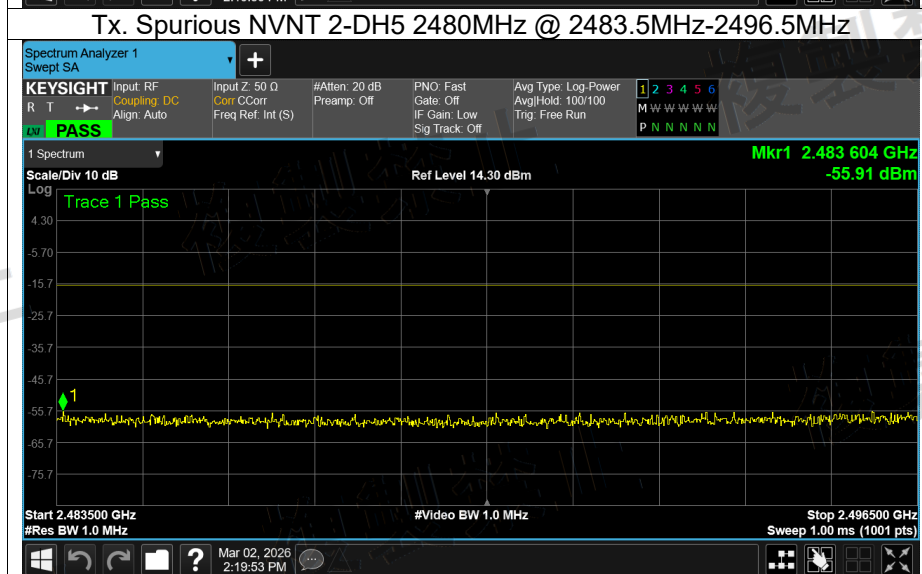
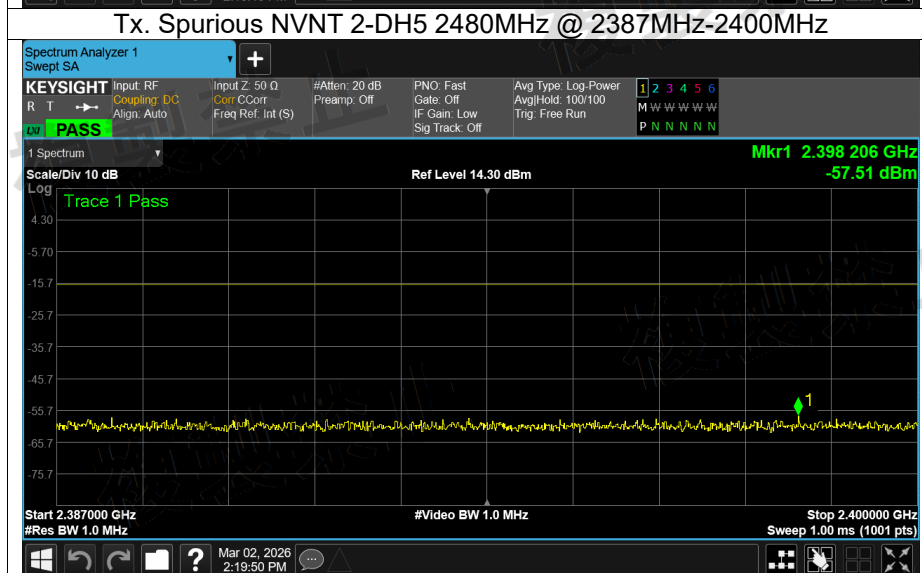
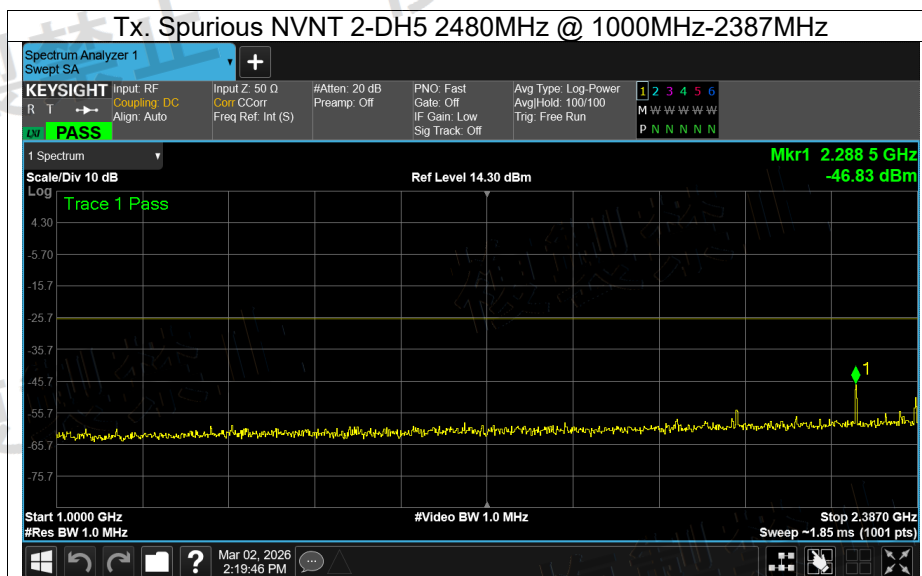


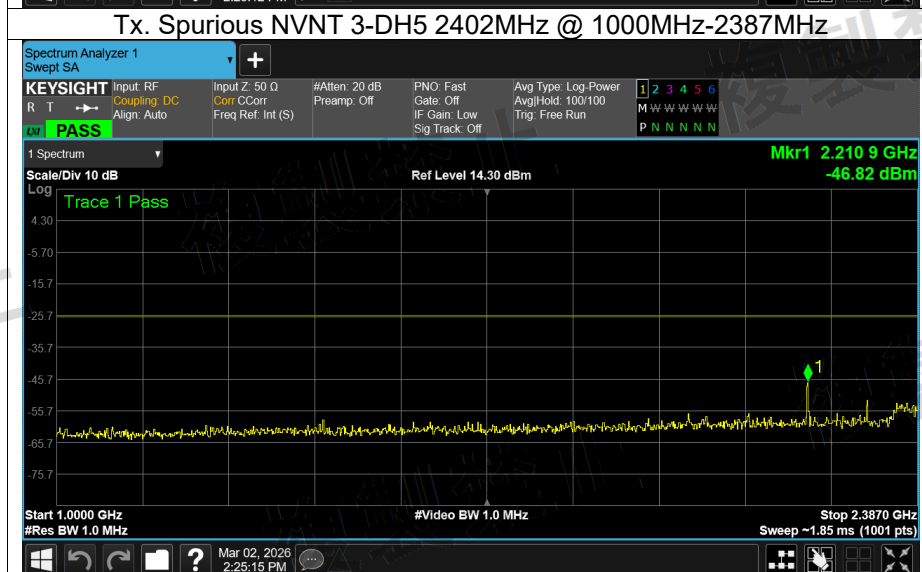
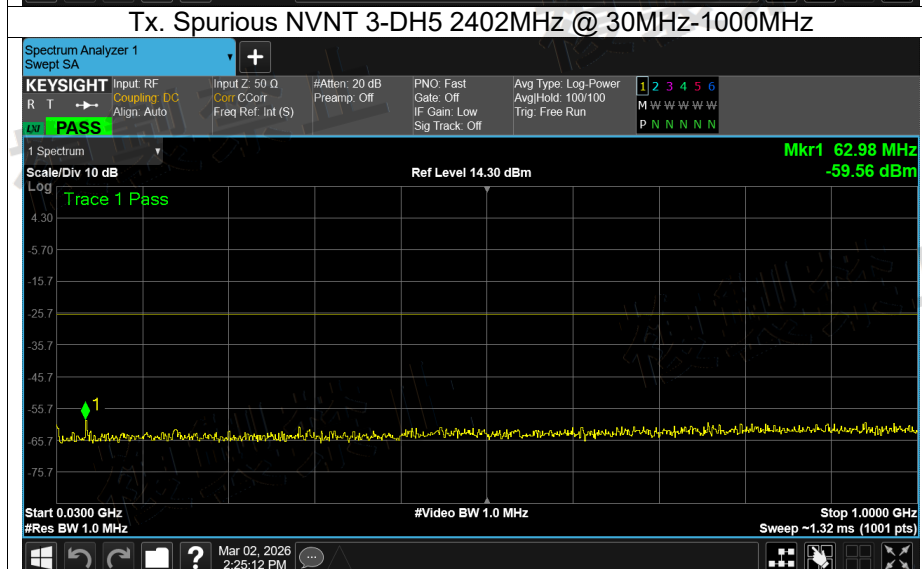
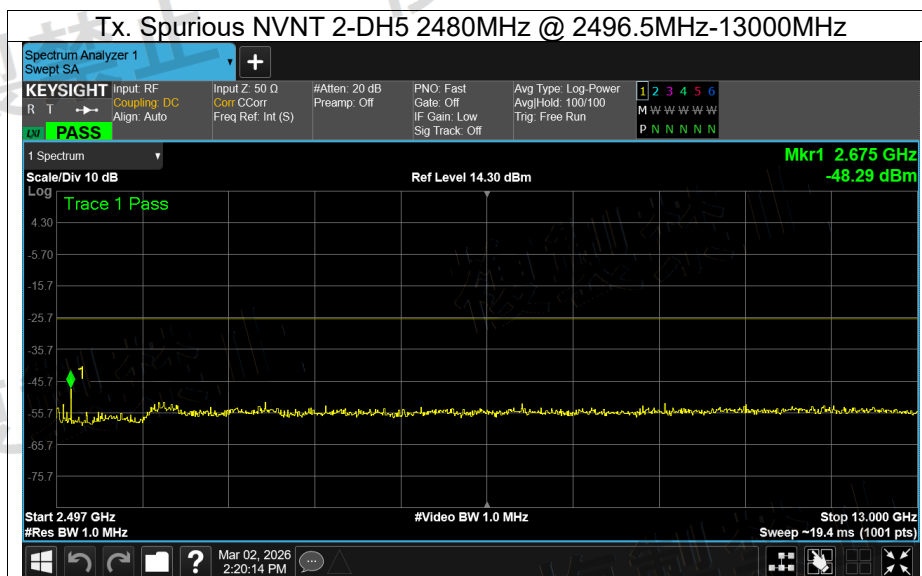


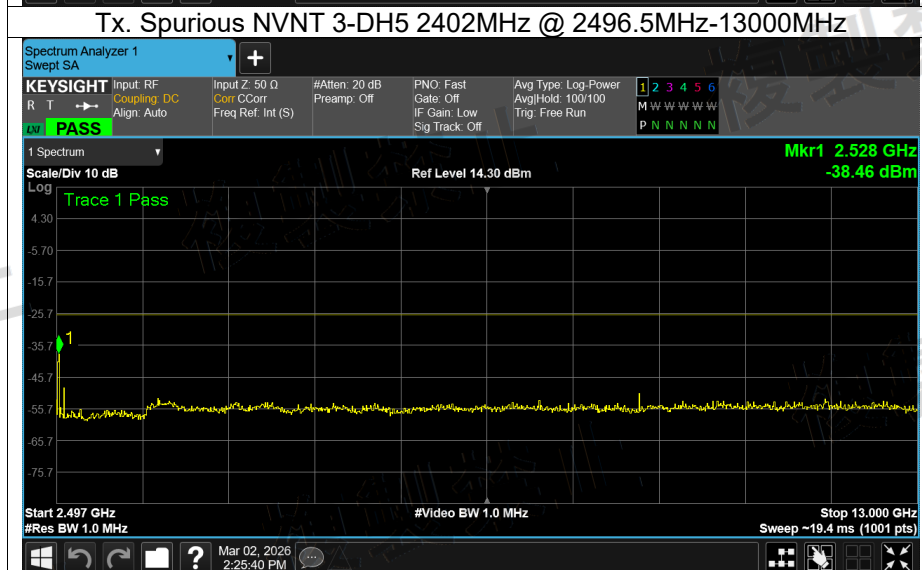
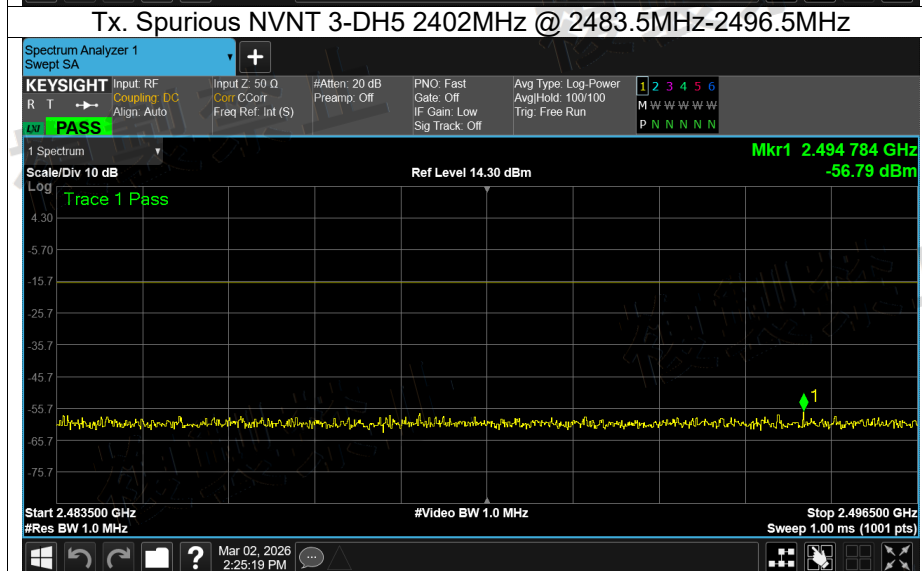
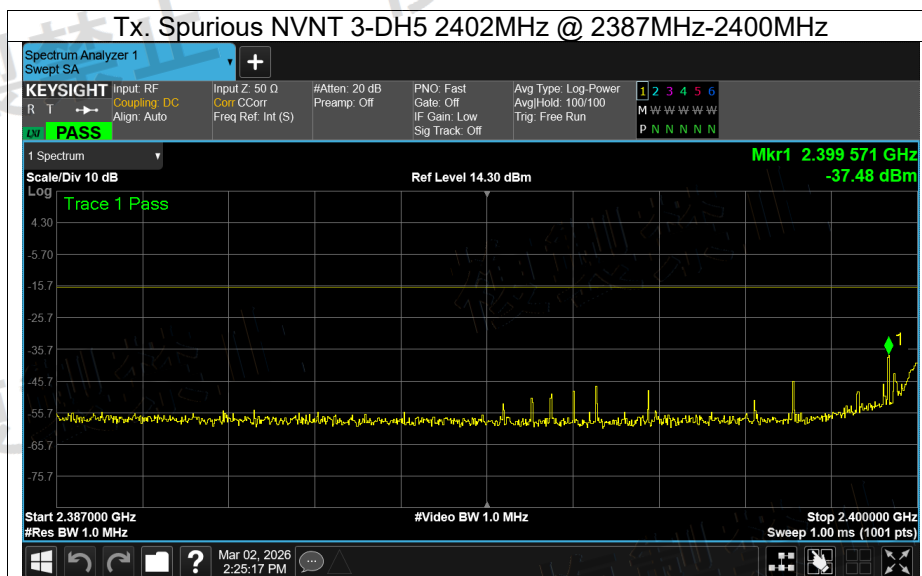


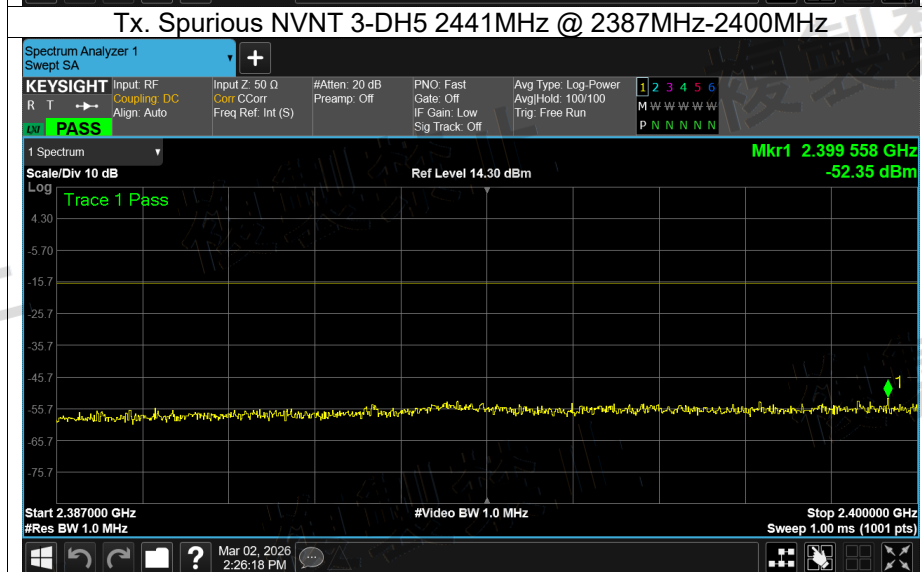
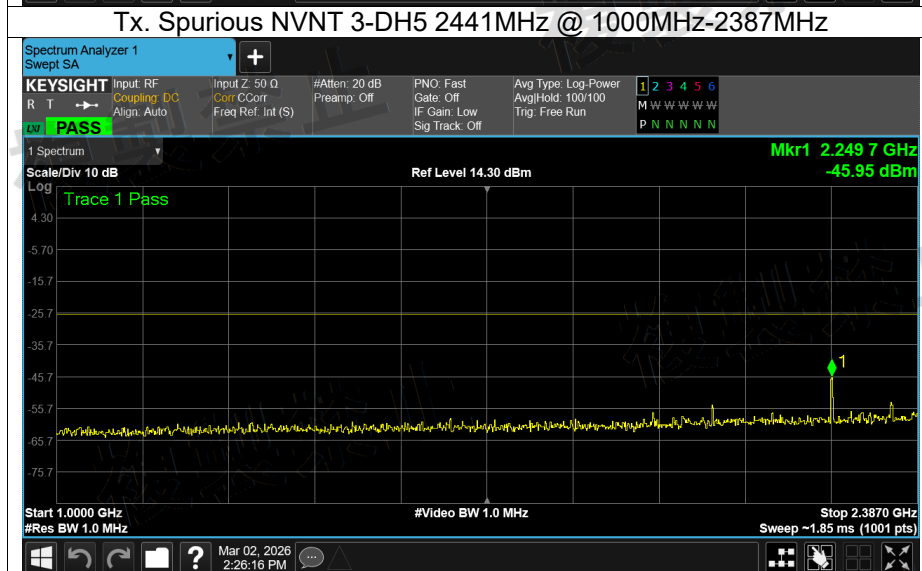
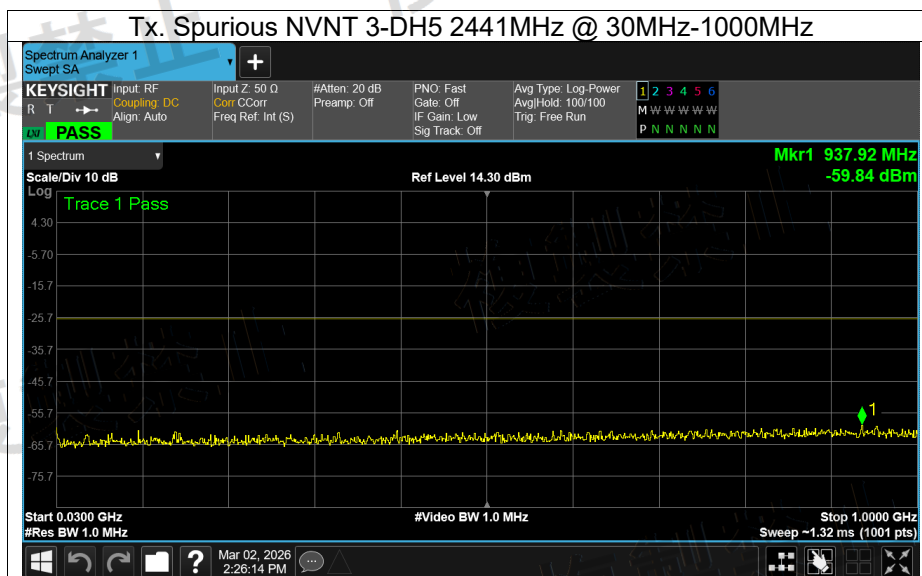


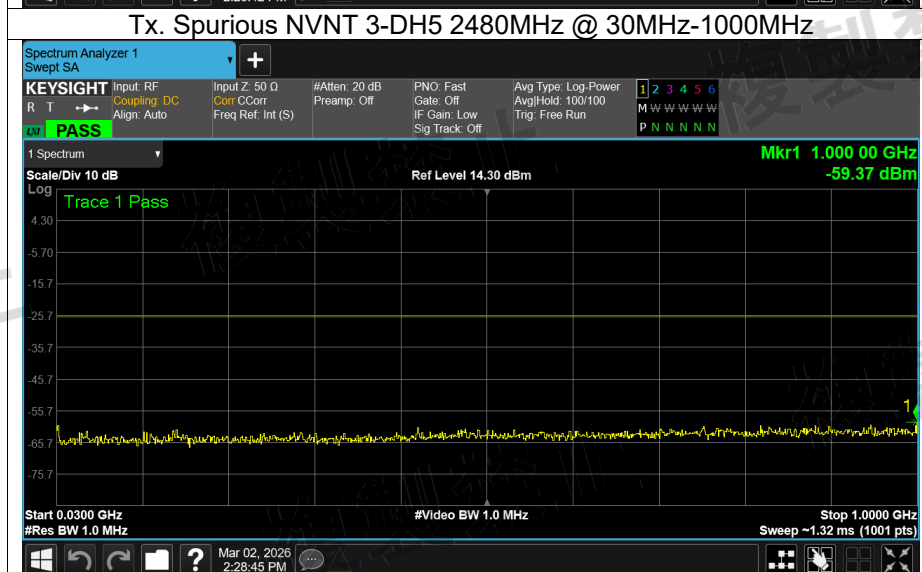
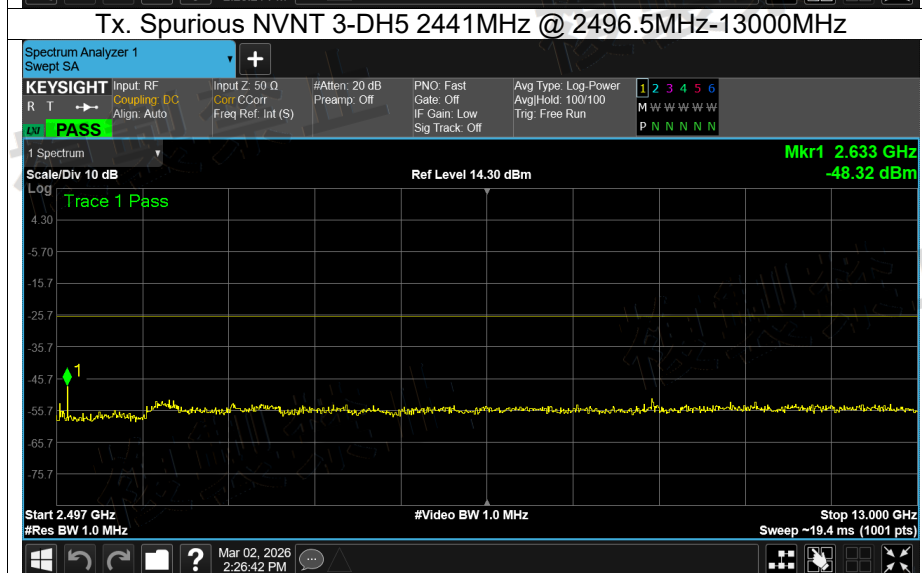
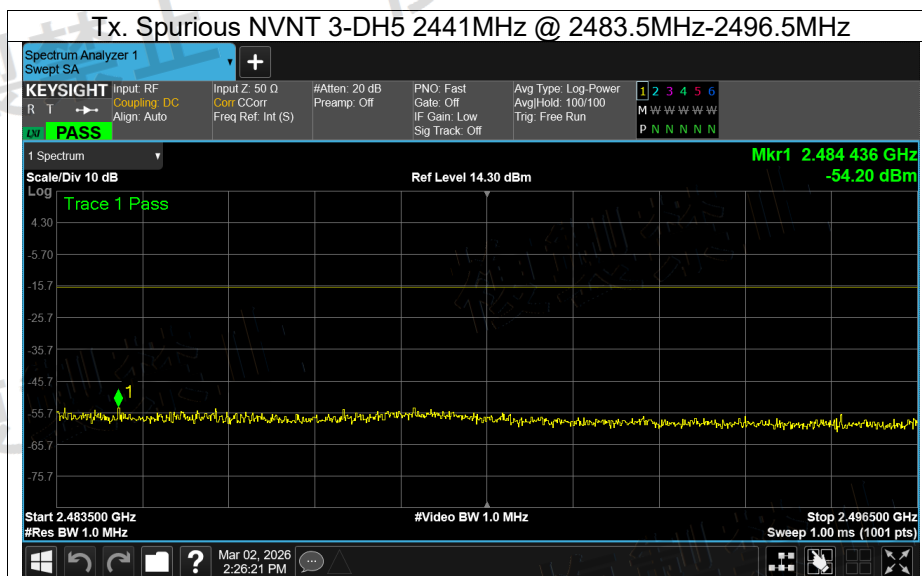


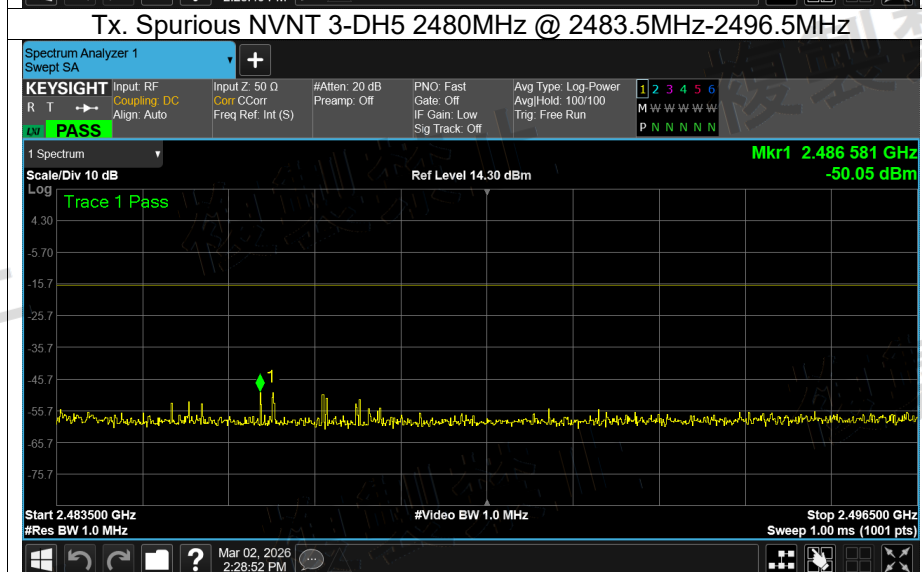
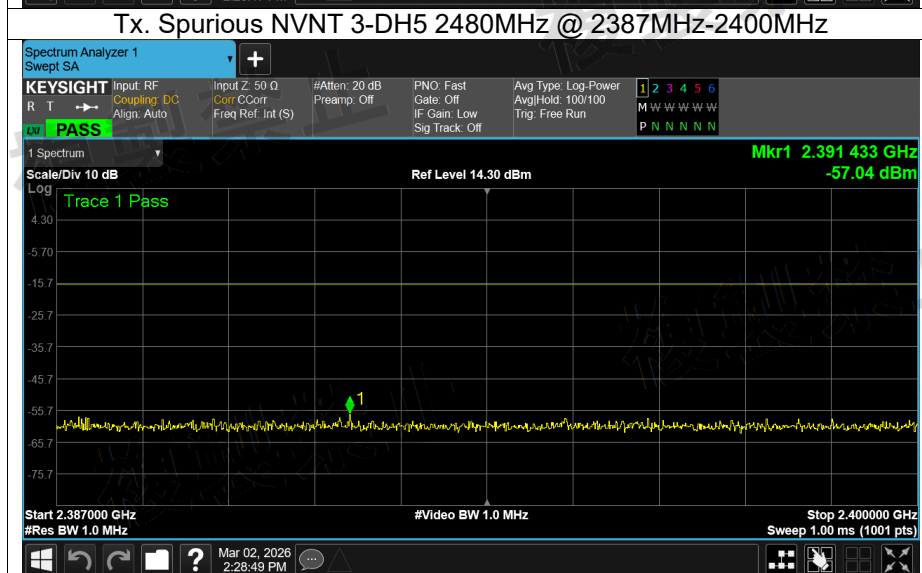
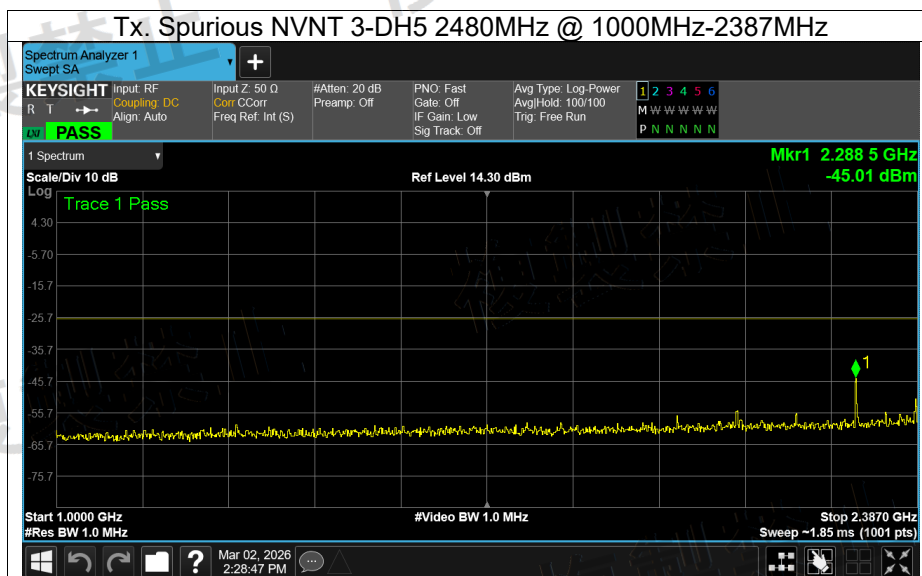


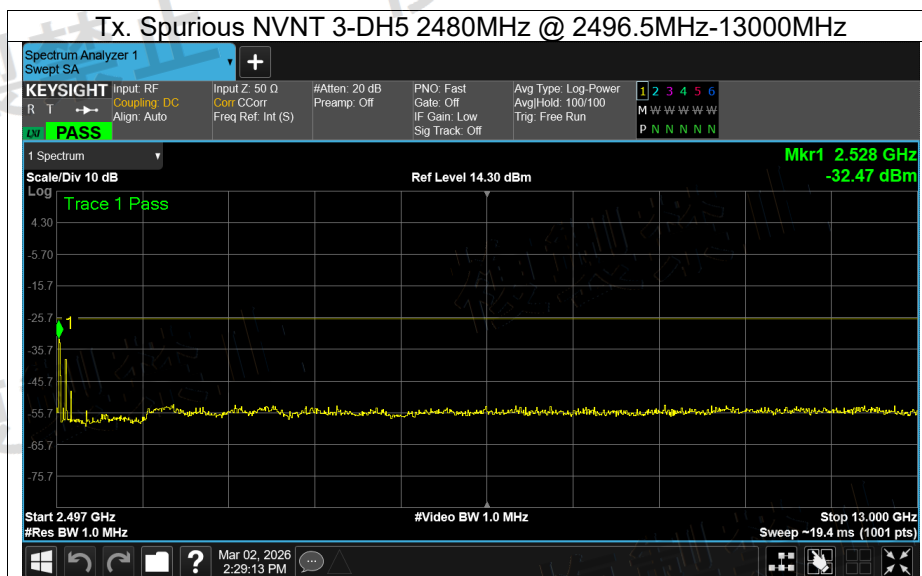








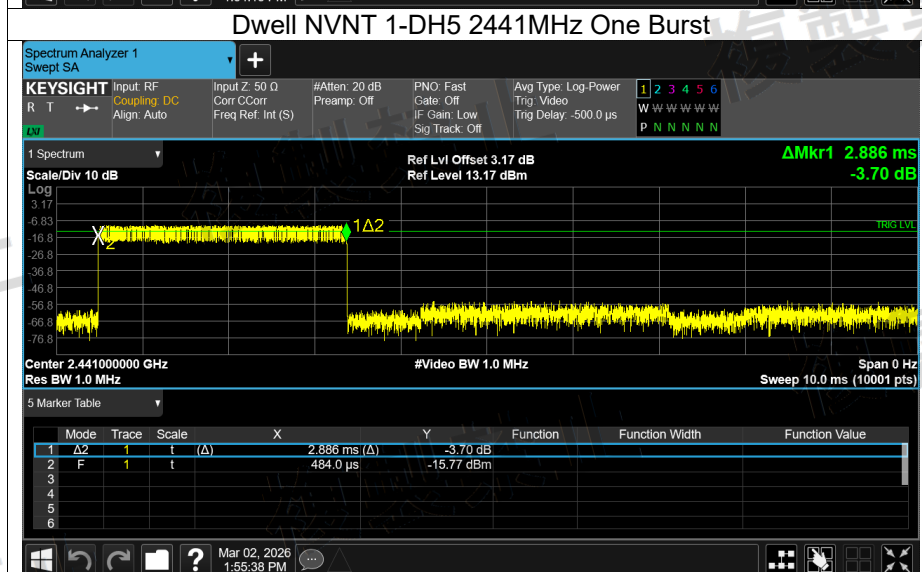
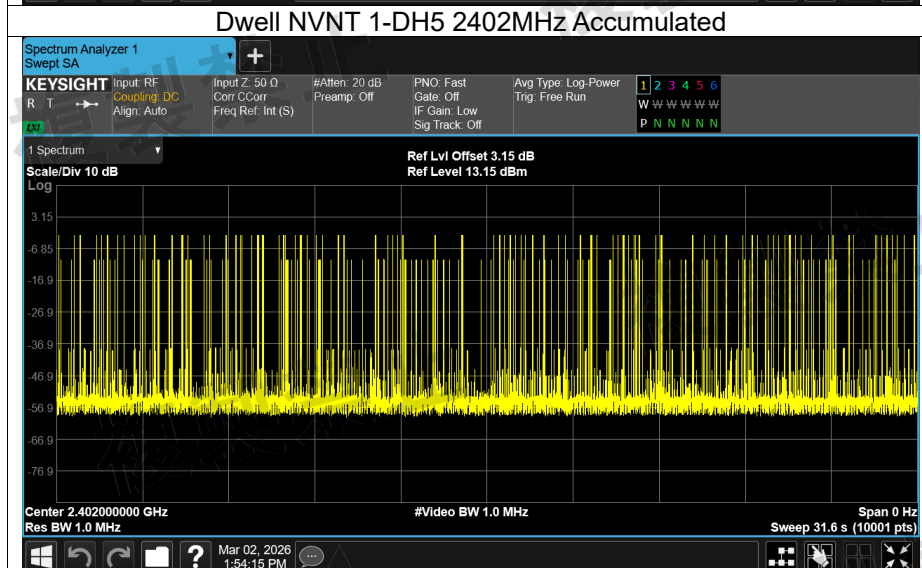
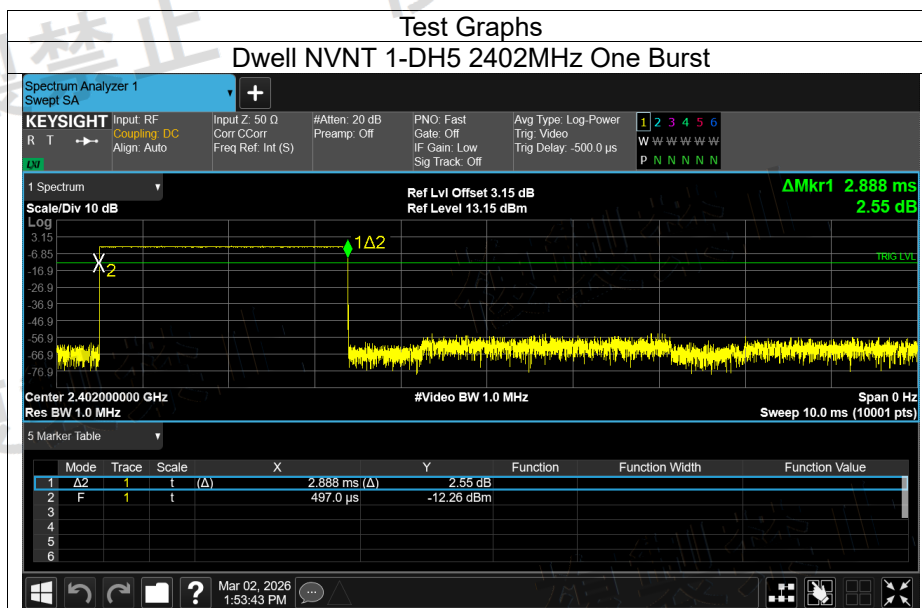


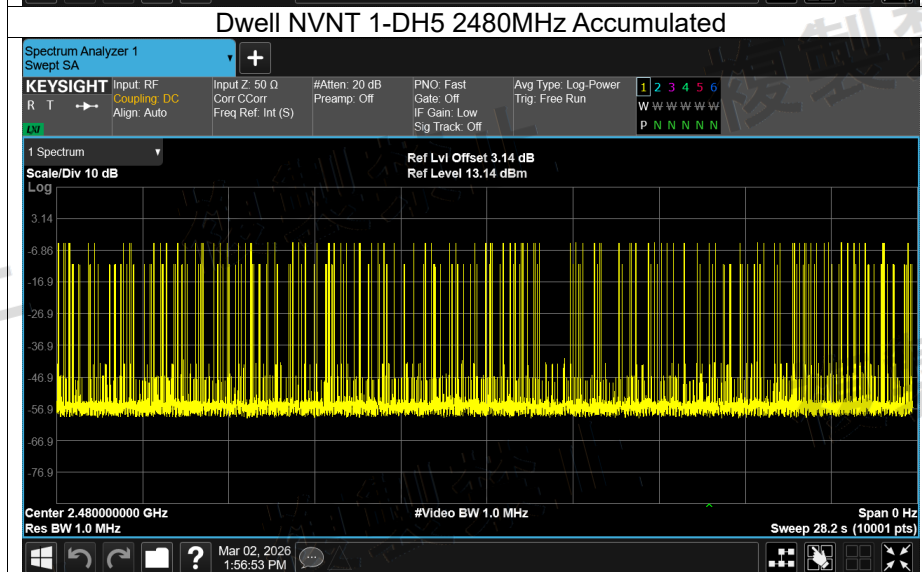
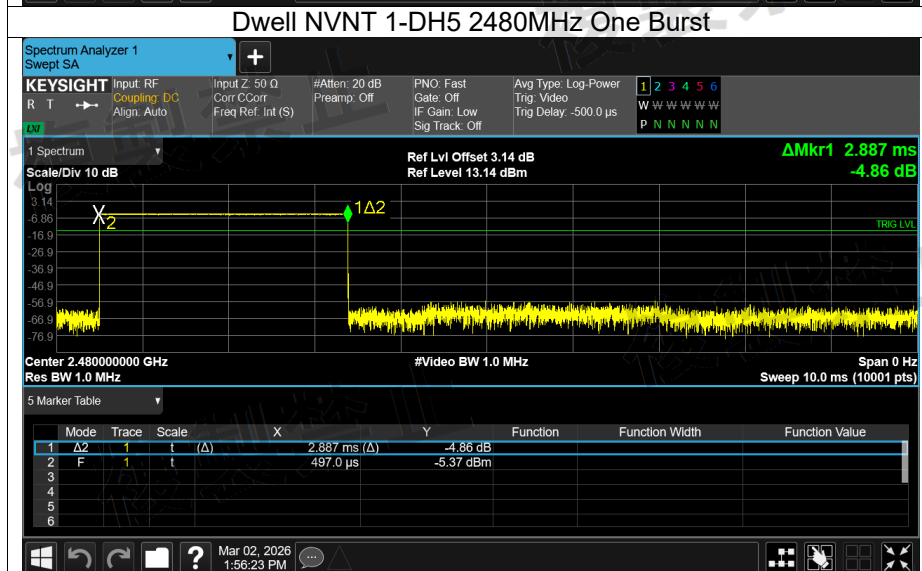
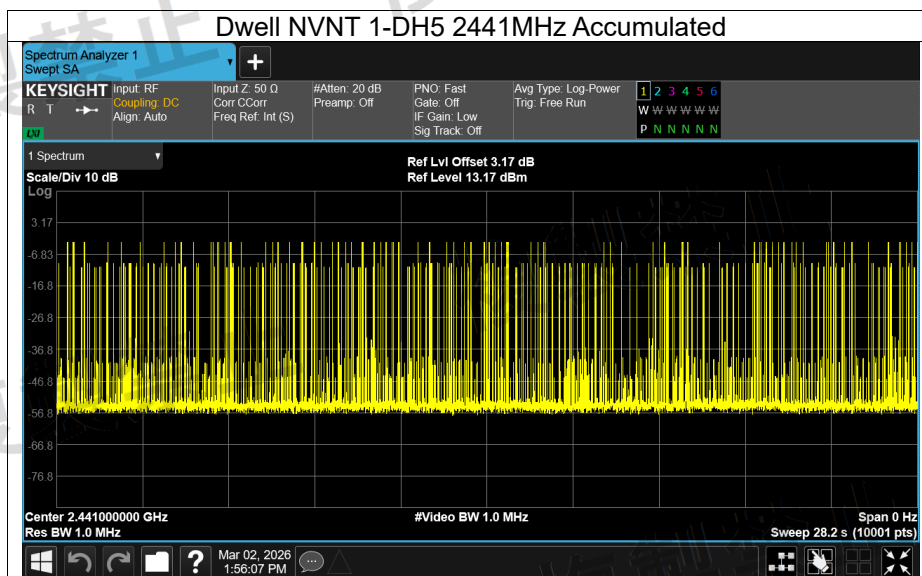


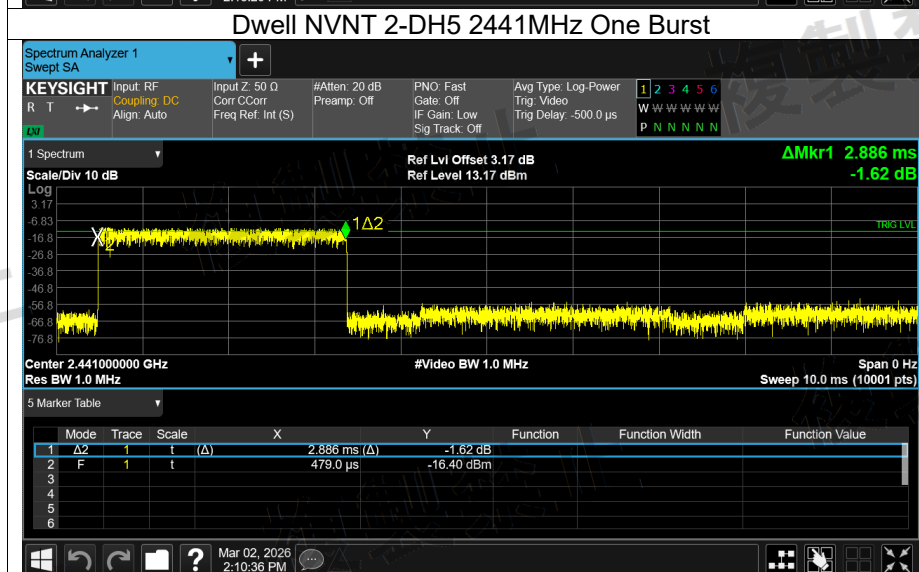
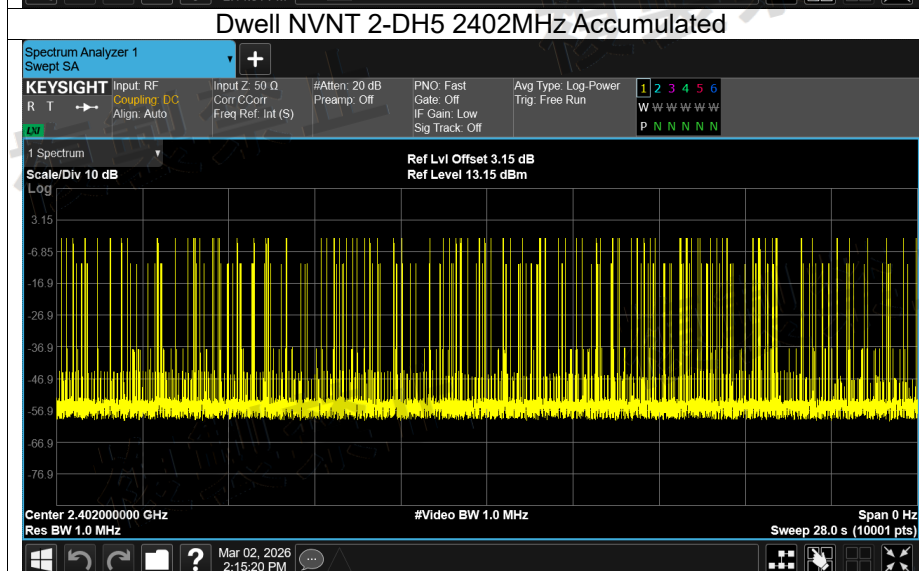
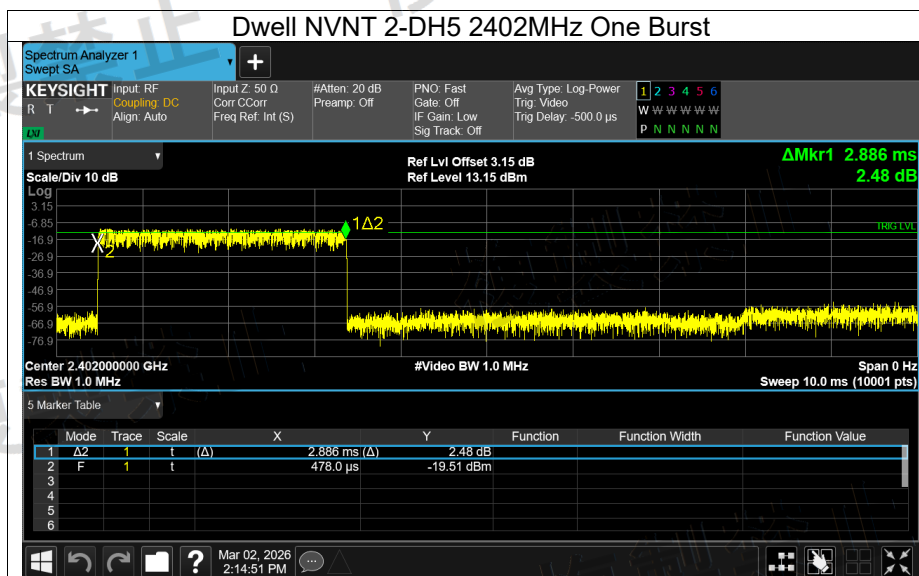


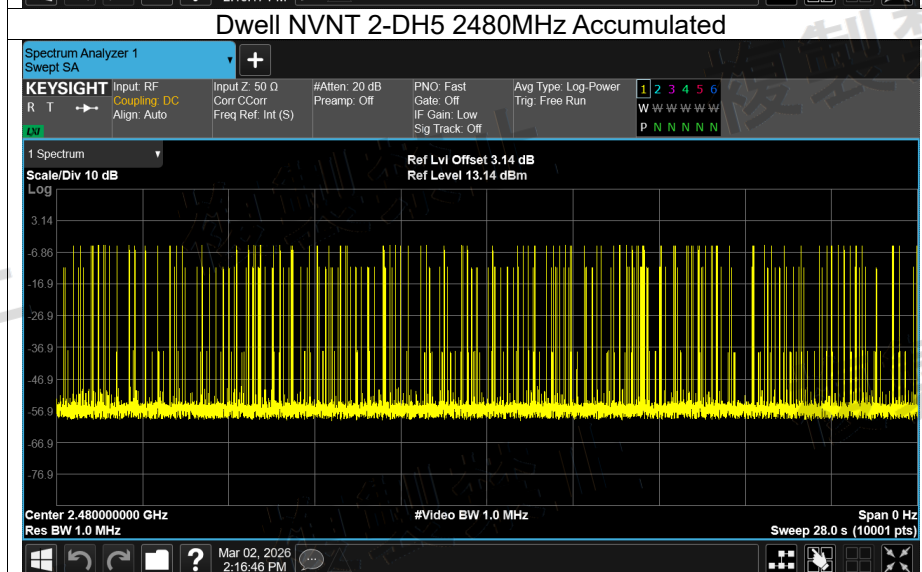
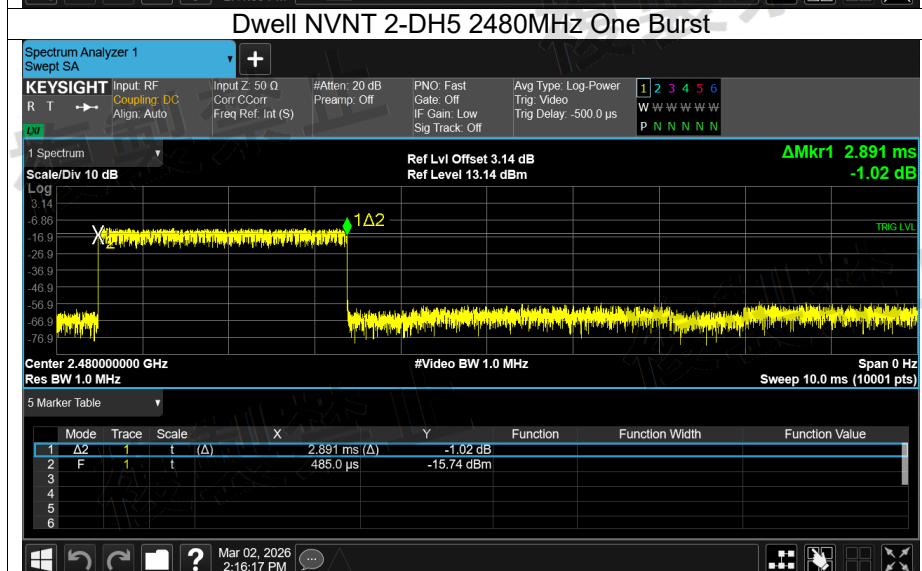
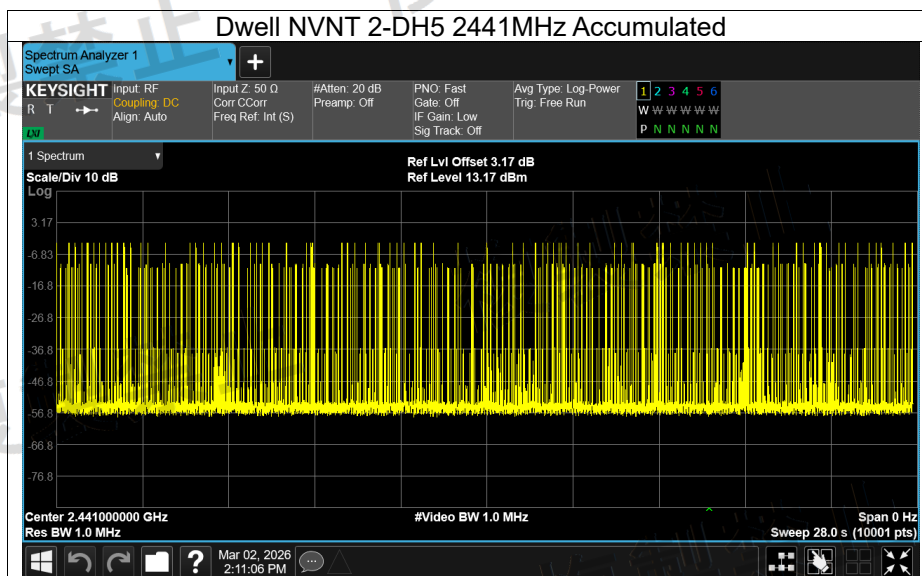
DWELL TIME

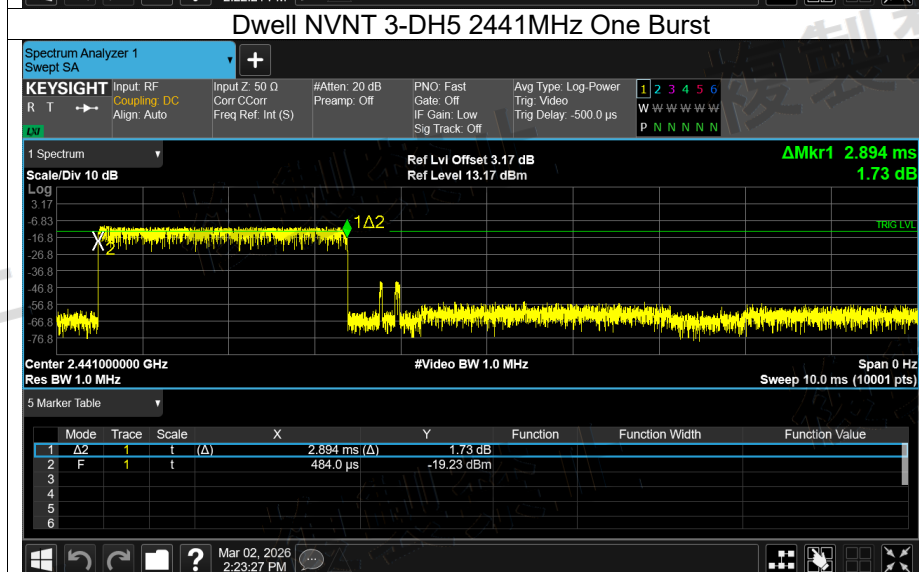
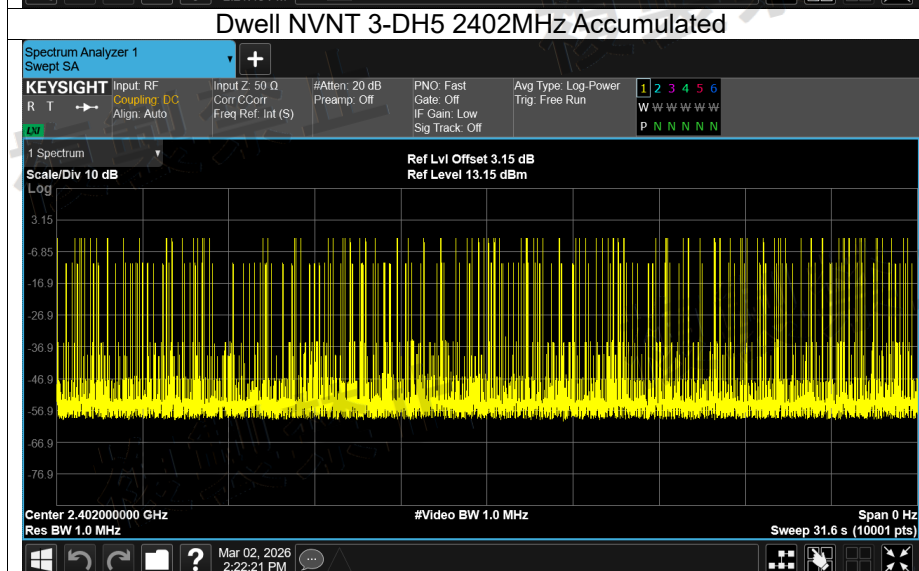
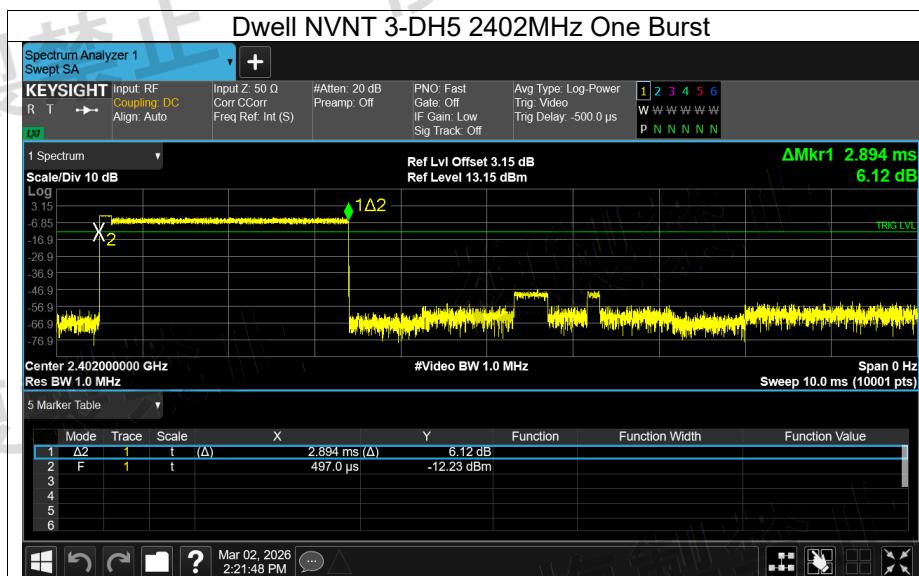
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	2.888	311.904	108	31600	400	Pass
NVNT	1-DH5	2441	2.886	268.398	93	28186.8	400	Pass
NVNT	1-DH5	2480	2.887	306.022	106	28186.8	400	Pass
NVNT	2-DH5	2402	2.886	279.942	97	28010.4	400	Pass
NVNT	2-DH5	2441	2.886	288.6	100	28044	400	Pass
NVNT	2-DH5	2480	2.891	291.991	101	28010.4	400	Pass
NVNT	3-DH5	2402	2.894	289.4	100	31600	400	Pass
NVNT	3-DH5	2441	2.894	309.658	107	27900.8	400	Pass
NVNT	3-DH5	2480	2.894	214.156	74	27900.8	400	Pass

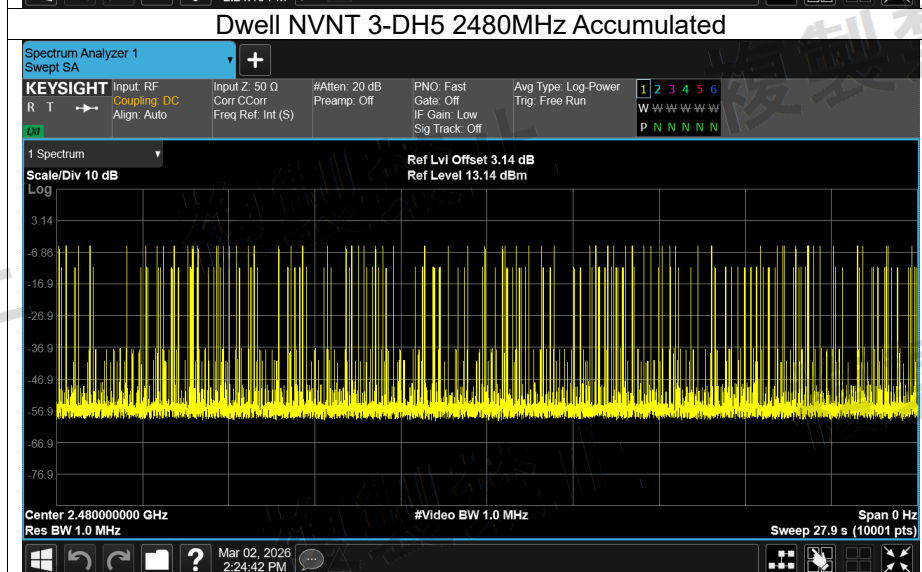
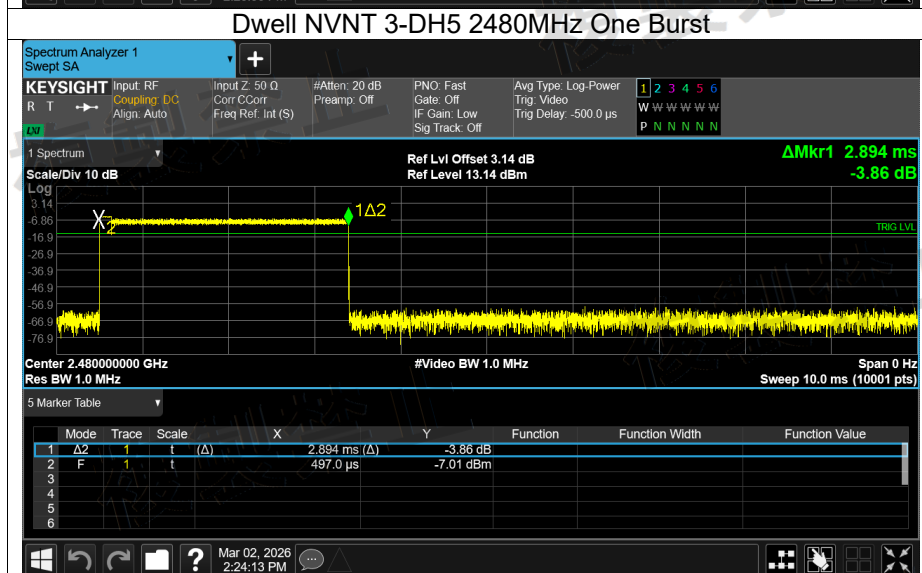
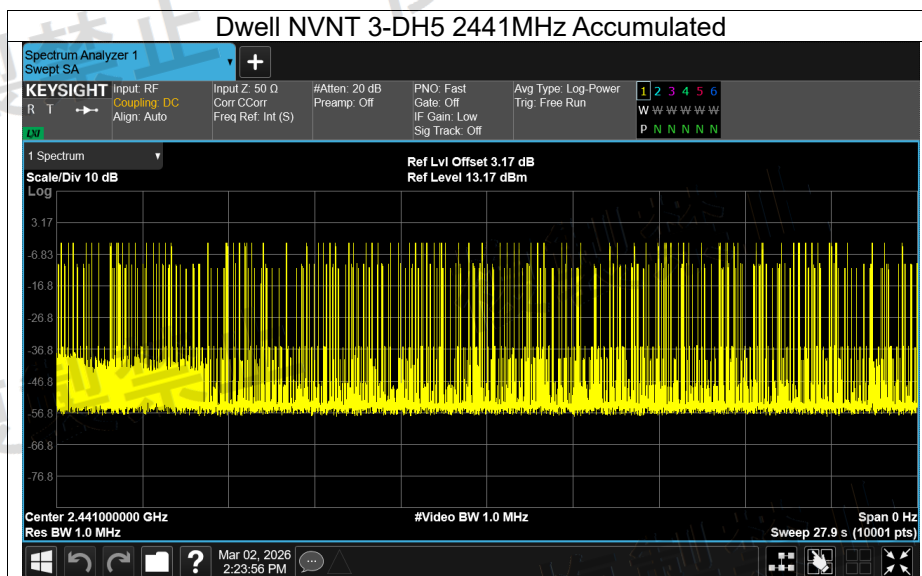








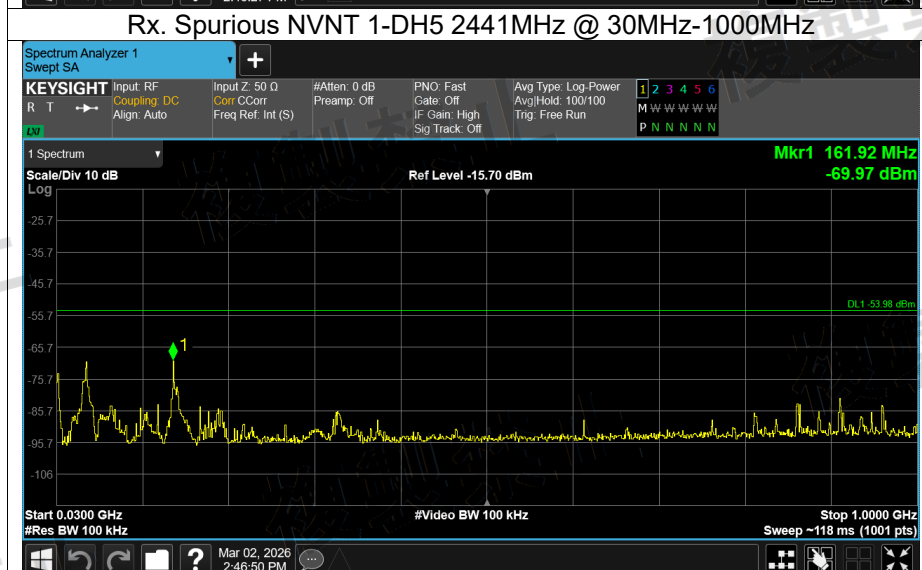
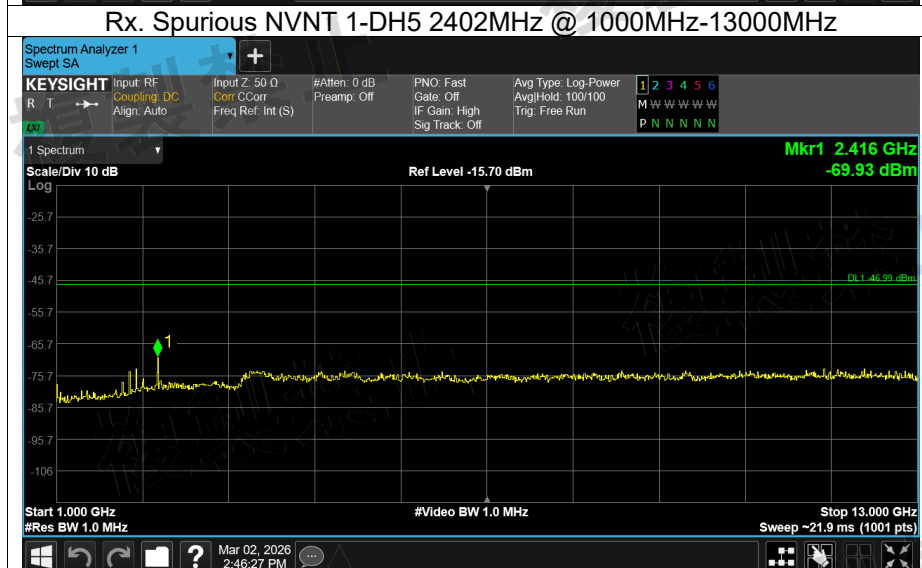
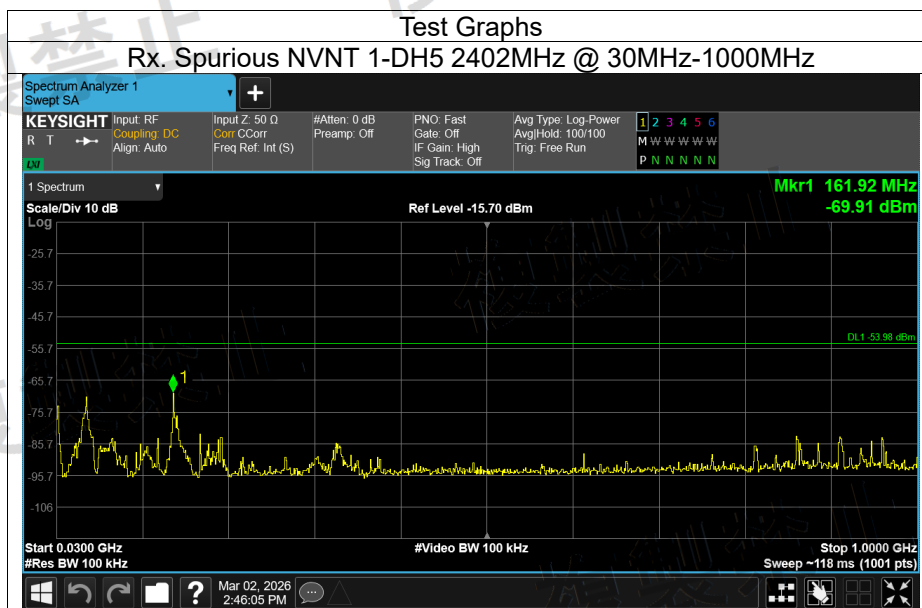


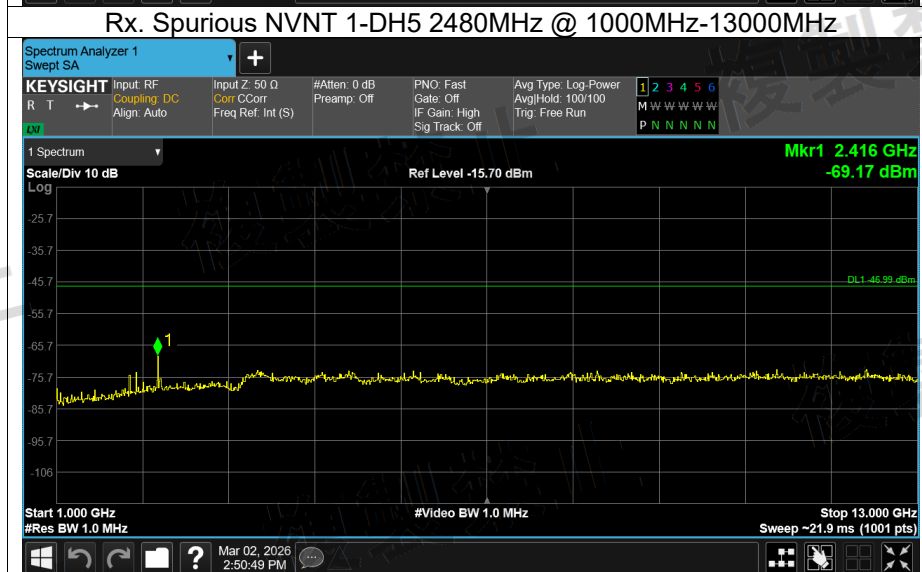
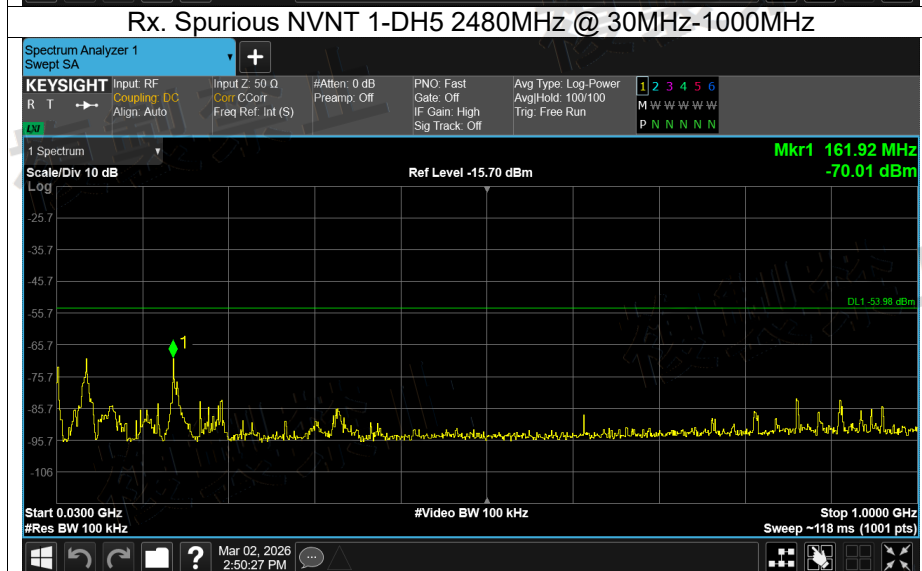
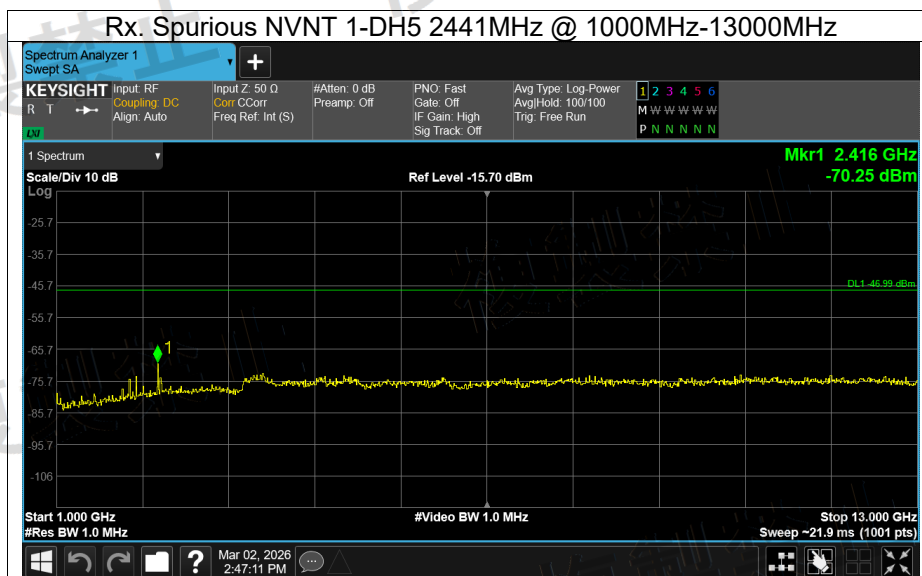


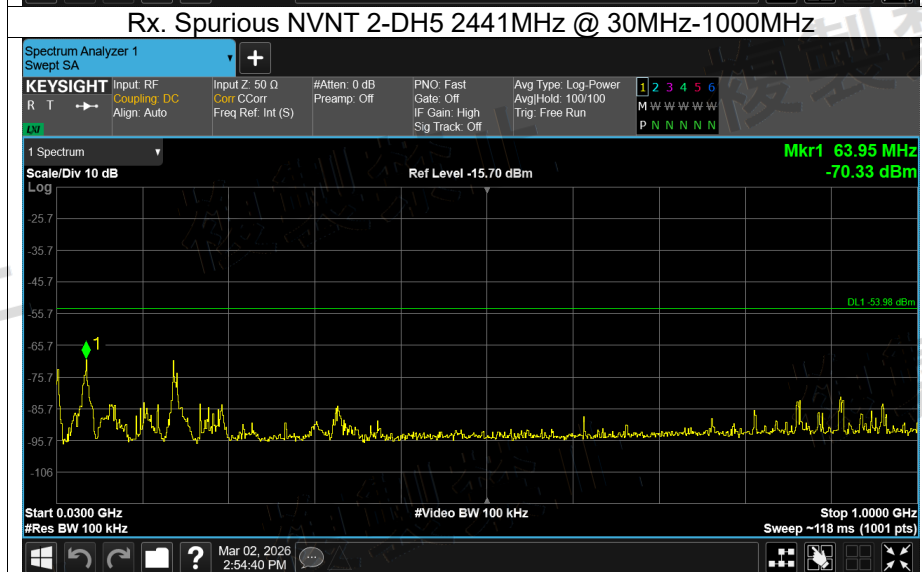
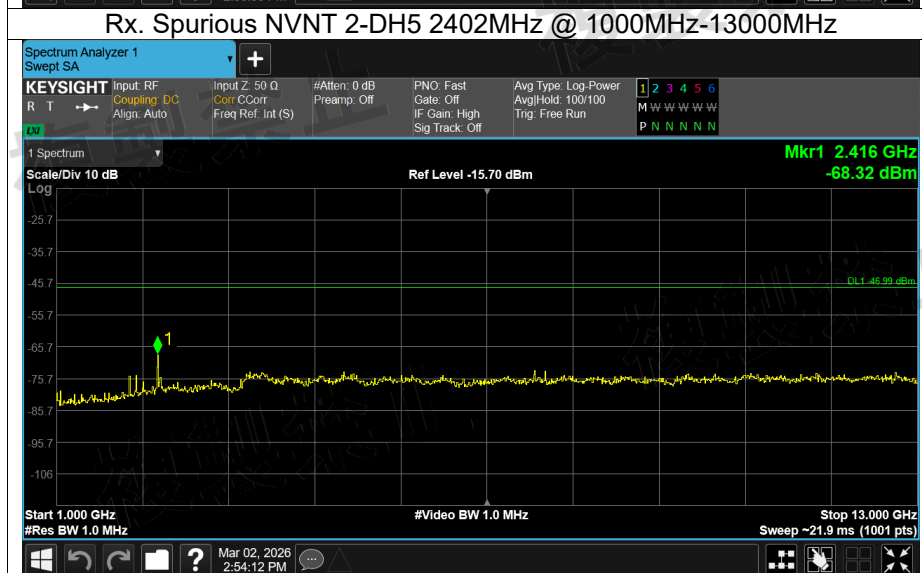
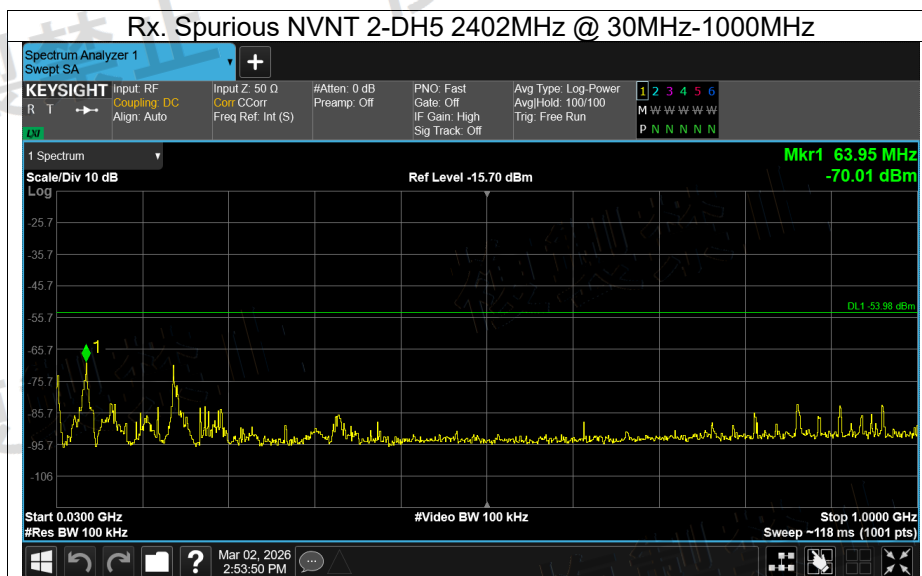


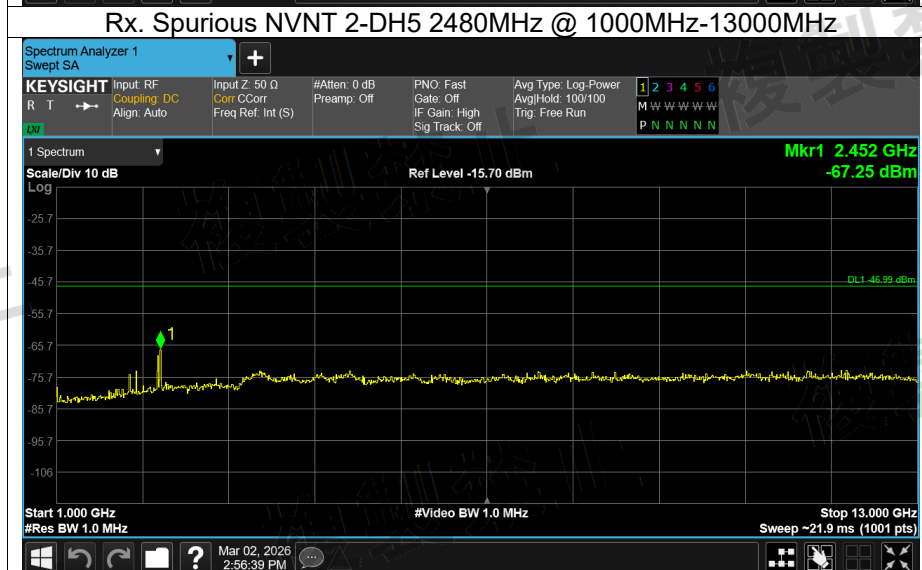
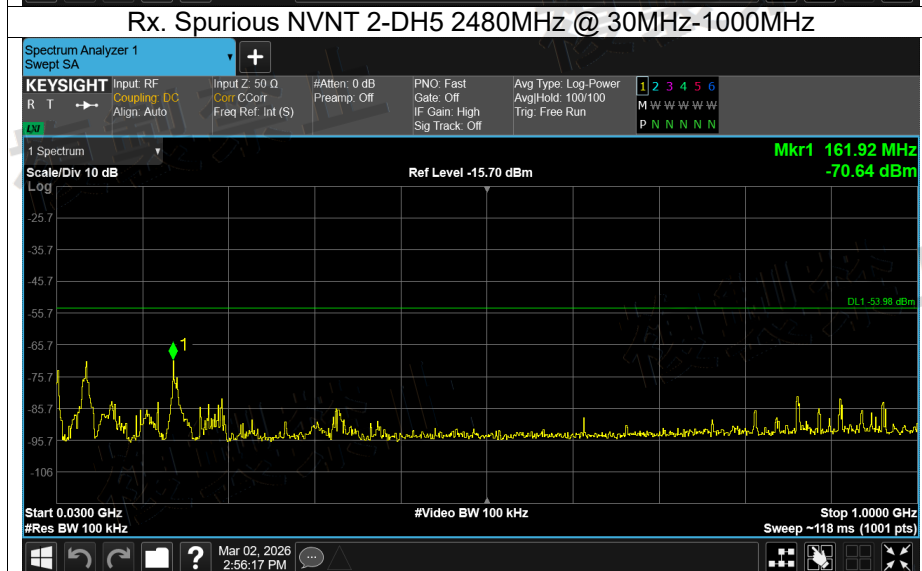
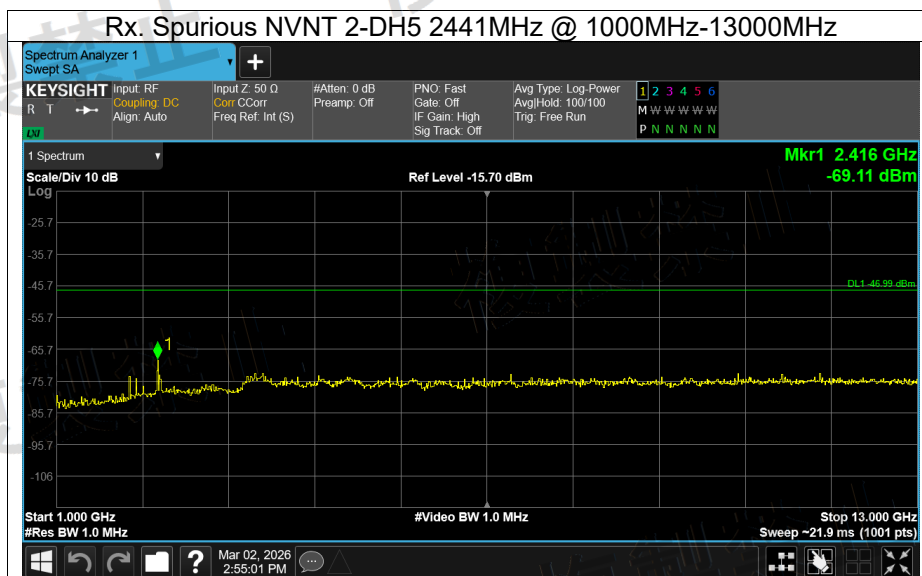
RX SPURIOUS EMISSION

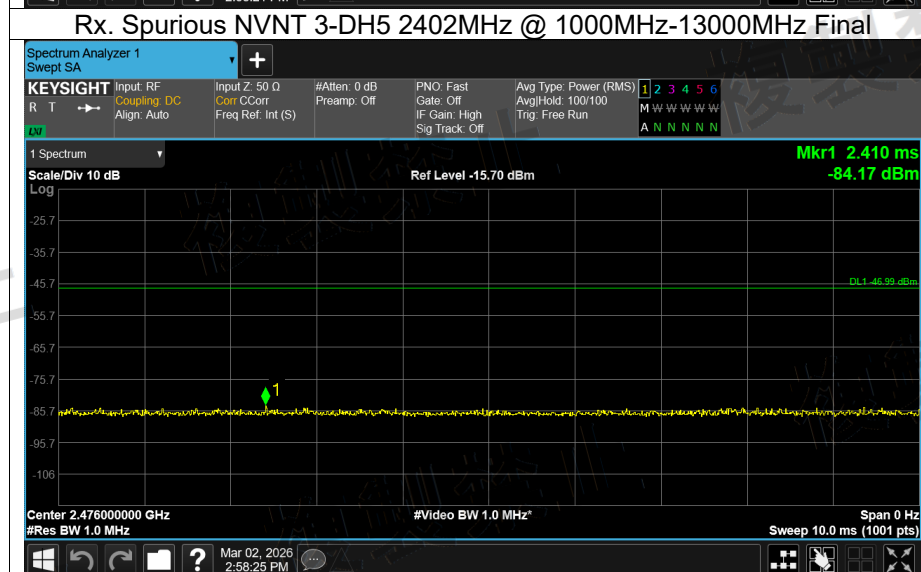
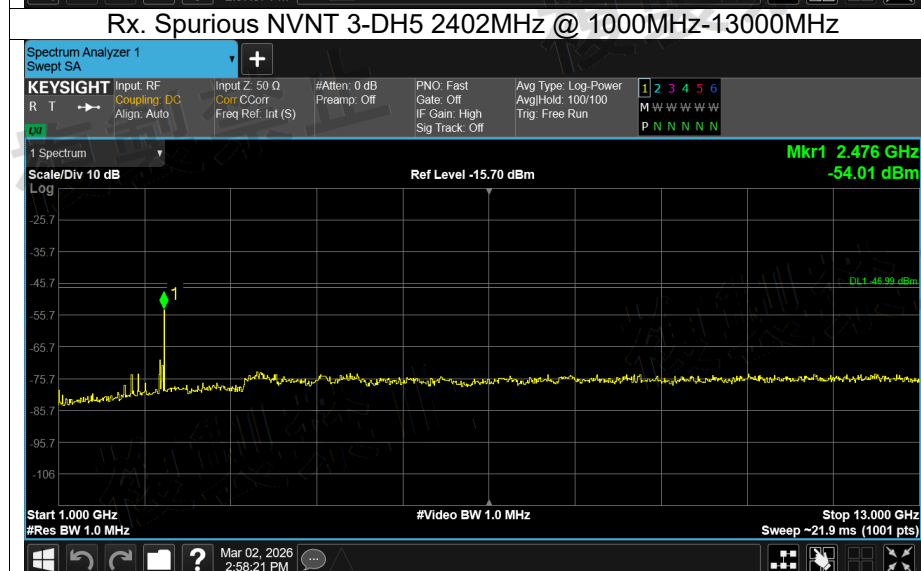
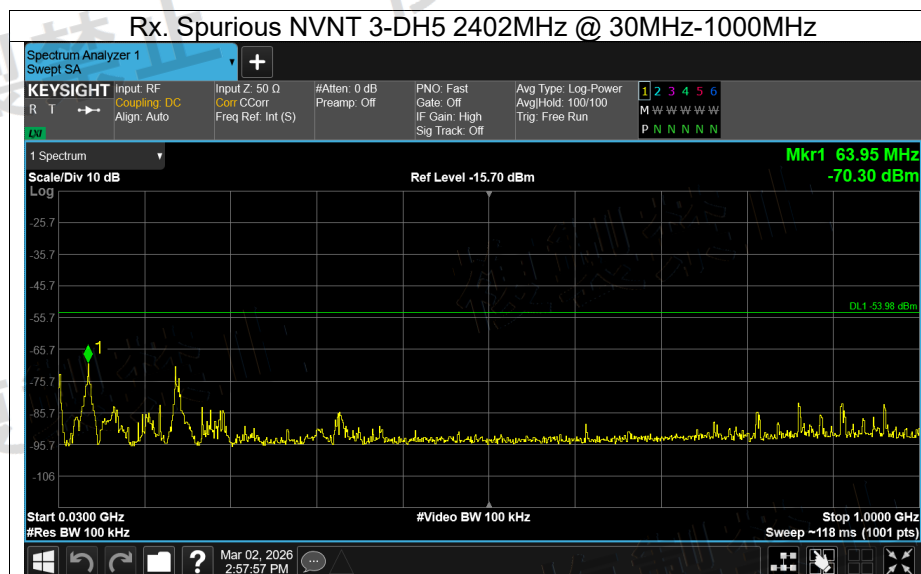
Condit ion	Mode	Frequ ency (MHz)	Range (MHz)	Emission Frequenc y (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdi ct
NVNT	1-DH5	2402	30-1000	161.92	-69.91	NA	0.1021	NA	4	Pass
NVNT	1-DH5	2402	1000-13000	2416.00	-69.93	NA	0.1016	NA	20	Pass
NVNT	1-DH5	2441	30-1000	161.92	-69.97	NA	0.1007	NA	4	Pass
NVNT	1-DH5	2441	1000-13000	2416.00	-70.25	NA	0.0944	NA	20	Pass
NVNT	1-DH5	2480	30-1000	161.92	-70.01	NA	0.0998	NA	4	Pass
NVNT	1-DH5	2480	1000-13000	2416.00	-69.17	NA	0.1211	NA	20	Pass
NVNT	2-DH5	2402	30-1000	63.95	-70.01	NA	0.0998	NA	4	Pass
NVNT	2-DH5	2402	1000-13000	2416.00	-68.32	NA	0.1472	NA	20	Pass
NVNT	2-DH5	2441	30-1000	63.95	-70.33	NA	0.0927	NA	4	Pass
NVNT	2-DH5	2441	1000-13000	2416.00	-69.11	NA	0.1227	NA	20	Pass
NVNT	2-DH5	2480	30-1000	161.92	-70.64	NA	0.0863	NA	4	Pass
NVNT	2-DH5	2480	1000-13000	2452.00	-67.25	NA	0.1884	NA	20	Pass
NVNT	3-DH5	2402	30-1000	63.95	-70.30	NA	0.0933	NA	4	Pass
NVNT	3-DH5	2402	1000-13000	2476.00	-54.01	-84.17	3.9719	0.0038	20	Pass
NVNT	3-DH5	2441	30-1000	161.92	-69.97	NA	0.1007	NA	4	Pass
NVNT	3-DH5	2441	1000-13000	2476.00	-51.87	-55.59	6.5013	2.7606	20	Pass
NVNT	3-DH5	2480	30-1000	63.95	-71.36	NA	0.0731	NA	4	Pass
NVNT	3-DH5	2480	1000-13000	2416.00	-70.32	NA	0.0929	NA	20	Pass

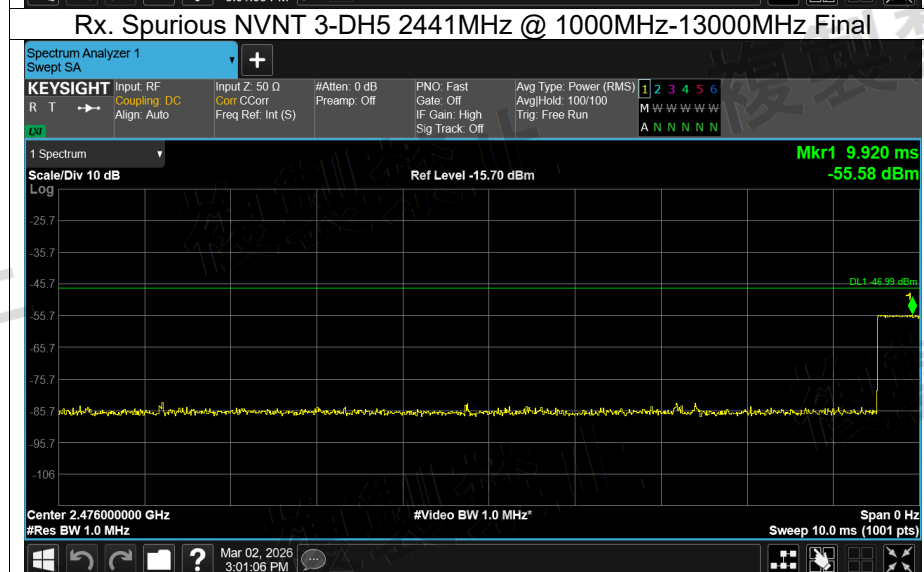
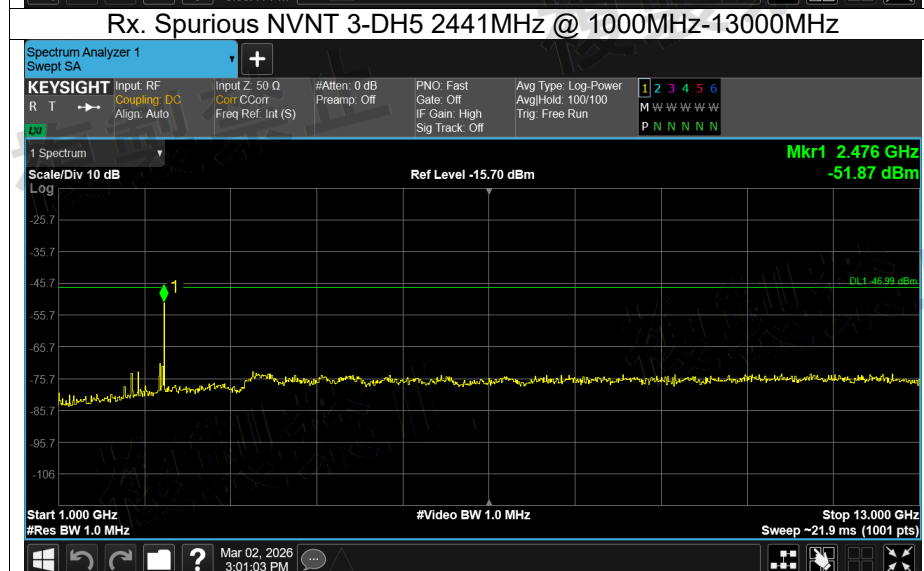
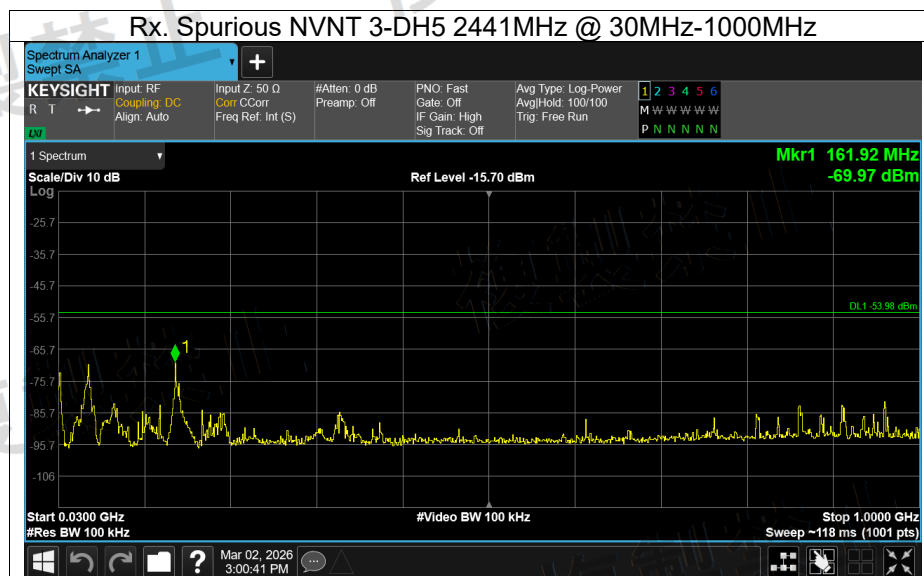


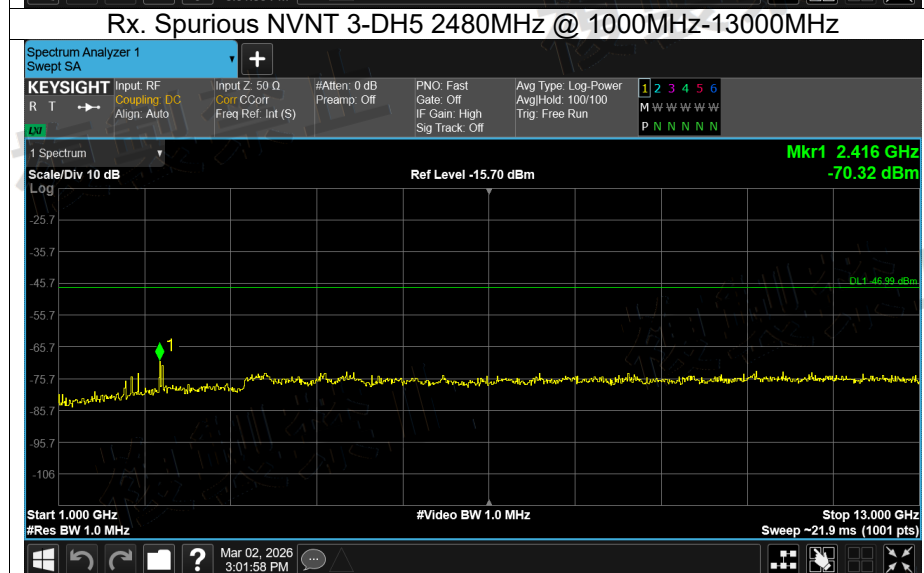
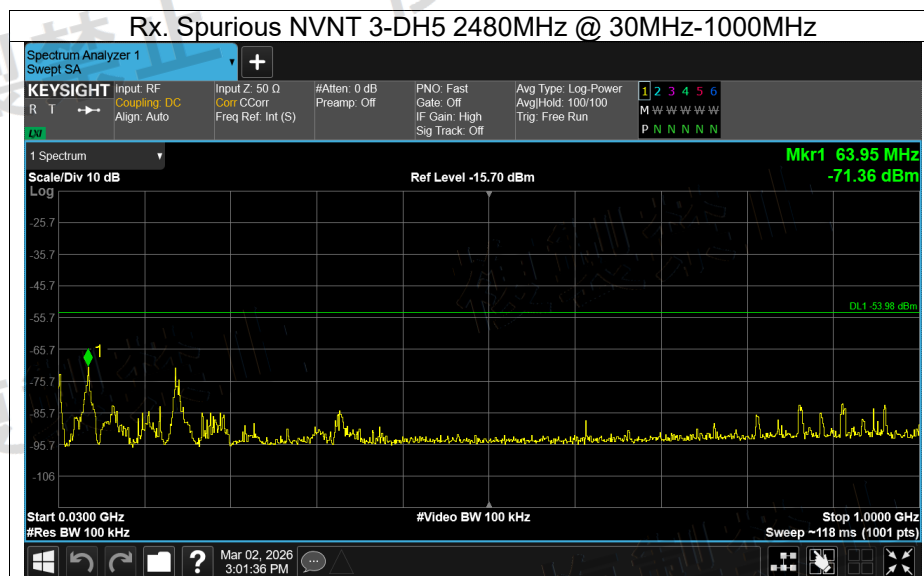














ANTENNA POWER

Condition	Mode	Frequency (MHz)	Power Reading (dBm)	Power Reading (mW)	Spread Bandwidth (MHz)	Antenna Power (mW/MHz)	Declared Power (mW/MHz)	Limit (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	1-DH5	Hopping	-2.29	0.59	1	0.59	1	3	-41	20	Pass
NVNT	2-DH5	Hopping	-2.41	0.574	70.026	0.008	0.01	3	-20	20	Pass
NVNT	3-DH5	Hopping	-2.38	0.578	1	0.578	1	3	-42.2	20	Pass

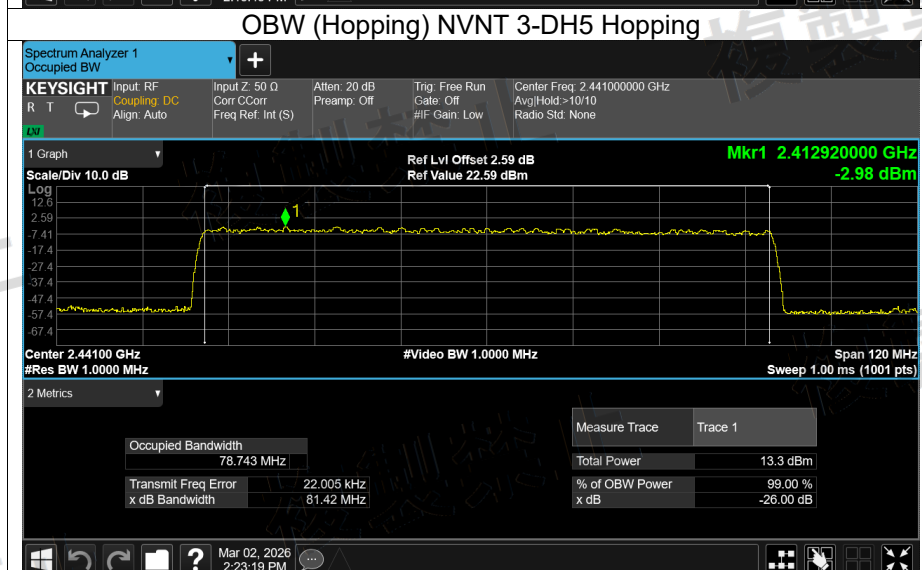
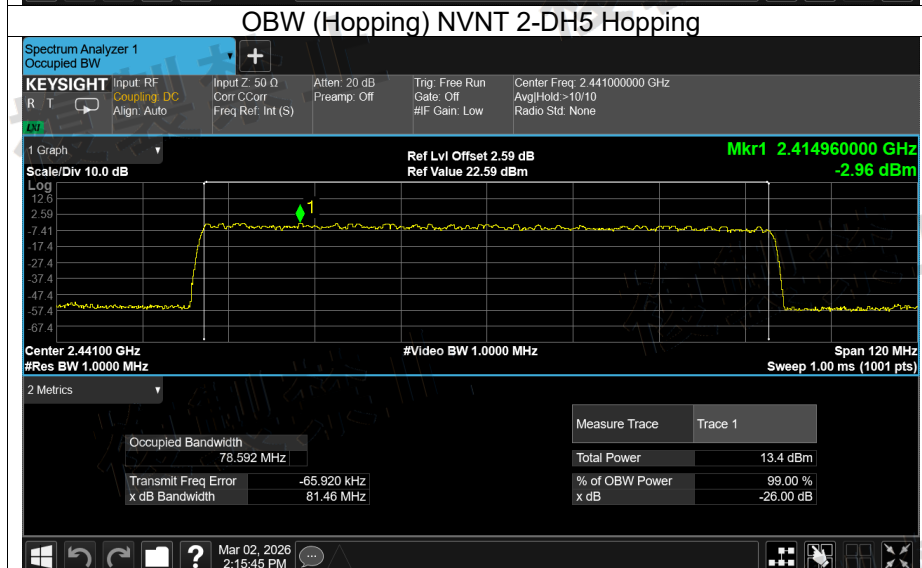
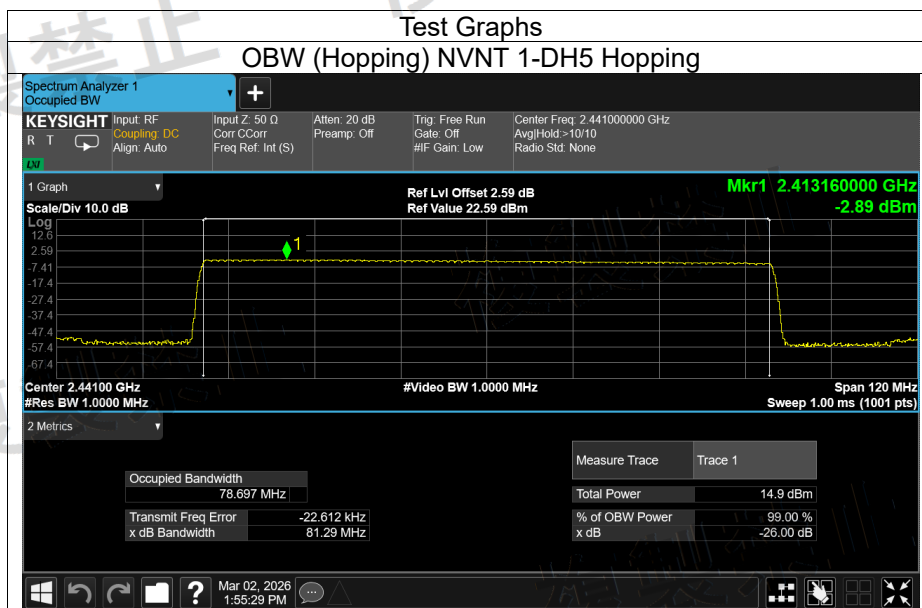
EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	Hopping	-2.29	-0.58	-2.87	6.91	Pass
NVNT	2-DH5	Hopping	-20.97	-0.58	-21.55	6.91	Pass
NVNT	3-DH5	Hopping	-2.38	-0.58	-2.96	6.91	Pass



OCCUPIED CHANNEL BANDWIDTH (HOPPING)

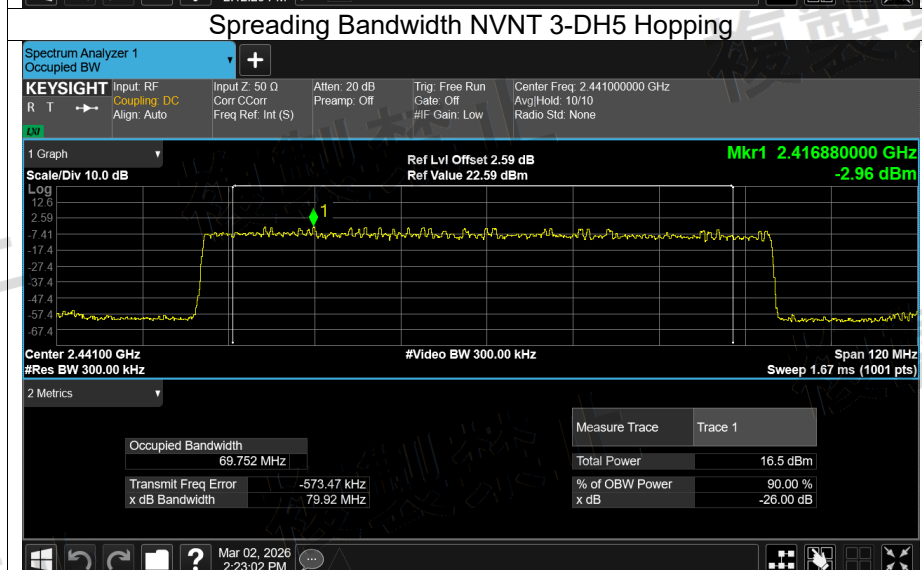
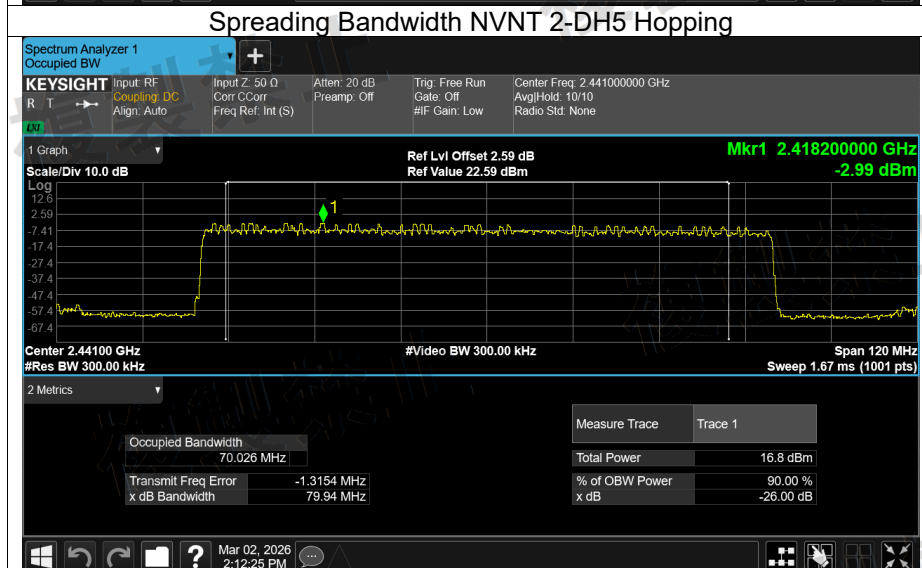
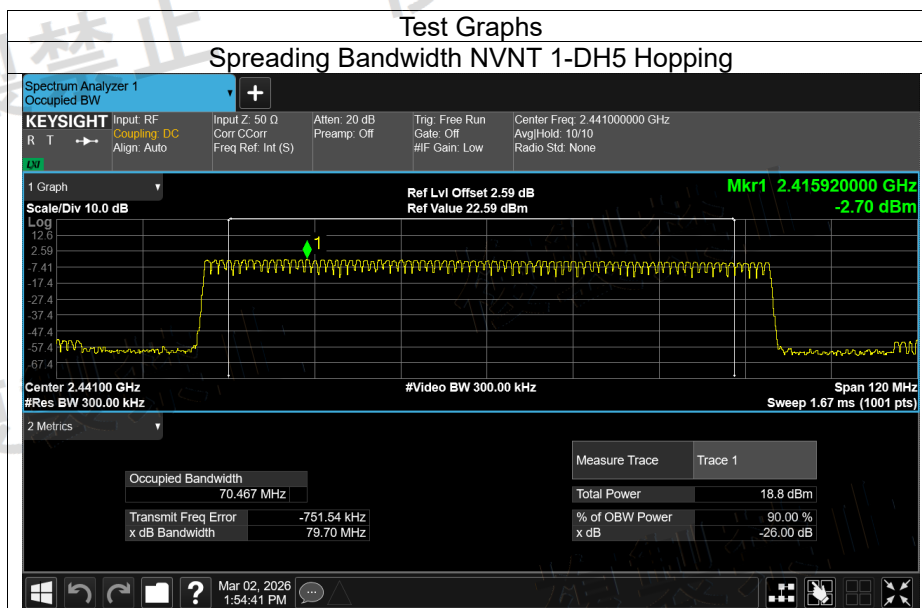
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	1-DH5	Hopping	78.697
NVNT	2-DH5	Hopping	78.592
NVNT	3-DH5	Hopping	78.743





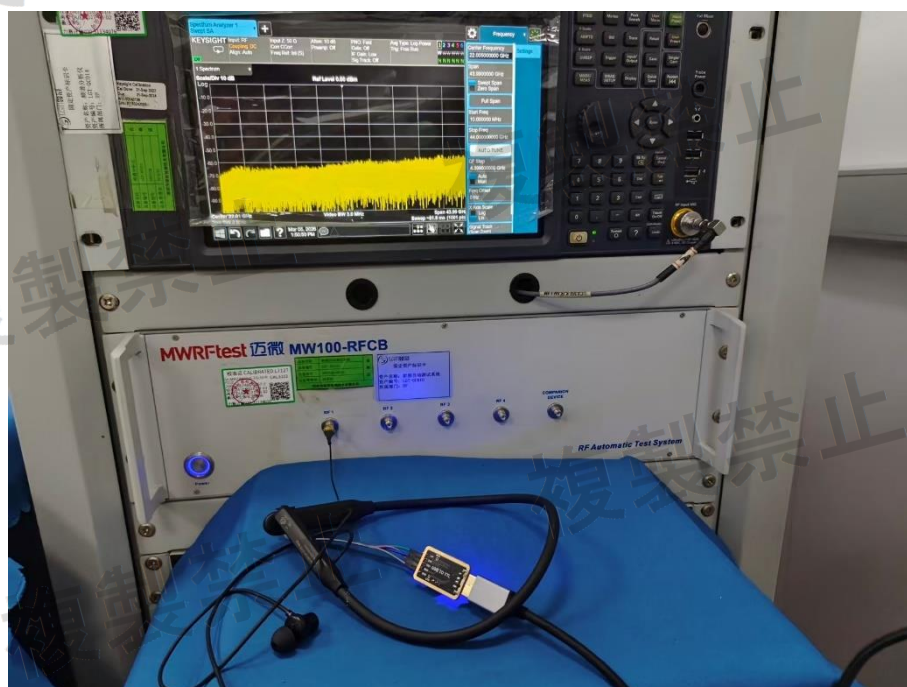
SPREADING BANDWIDTH

Condition	Mode	Frequency (MHz)	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Hopping	70.467	0.5	Pass
NVNT	2-DH5	Hopping	70.026	0.5	Pass
NVNT	3-DH5	Hopping	69.752	0.5	Pass





APPENDIX II - TEST SETUP PHOTOS





APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached GRTOP-BTNE NK08_EUT Photos.

※※※※※END OF THE REPORT※※※※※