

TEST REPORT

Report No.: BCTC2509100692E

Applicant: KORYU Co., Ltd.

Product Name: AUDIO GLASSES

Test Model: E13

Tested Date: 2025-09-01 to 2025-10-09

Issued Date: 2025-10-09

Shenzhen BCTC Testing Co., Ltd.



Product Name: AUDIO GLASSES

Trademark: N/A

Model/Type reference: E13
E13-1, E13-2, E13-3, E13-4, E13-5, E13-6, E13-7, E13-8, E13-9

Prepared For: KORYU Co., Ltd.

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Manufacturer: Dongguan Uka-Cham Electronics Tech. Co., Ltd

Address: 5F, Bld A4, Dongya Group, Lingnan Rd 106#, Shigu, Tangxia, Dongguan City, Guangdong, P.R.C

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2025-09-01

Sample tested Date: 2025-09-01 to 2025-10-09

Issue Date: 2025-10-09

Report No.: BCTC2509100692E

Test Standards: Article 2 paragraph 1 of item 19
MIC Notice No.88 Appendix No.43

Test Results: PASS

Remark: This is JAPAN RADIO test report.

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

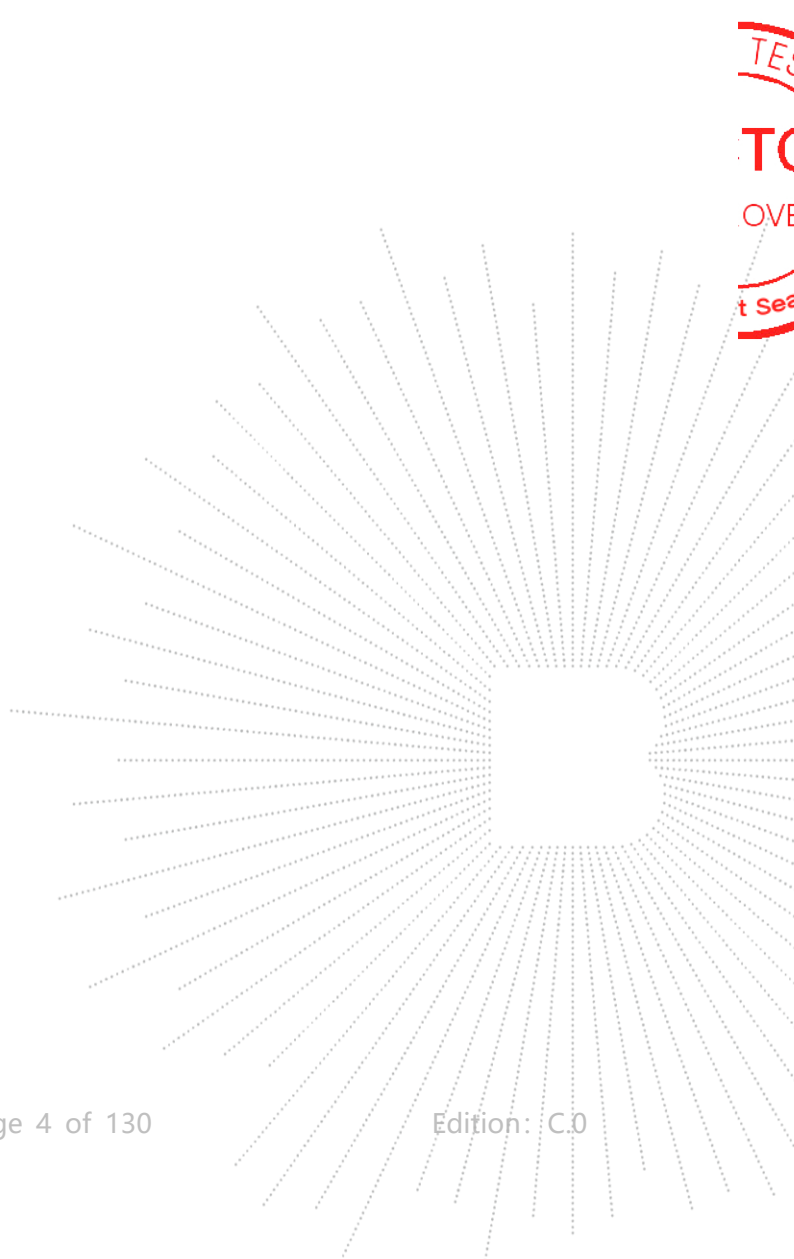
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Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Summary	6
3. Measurement Uncertainty	7
4. Product Information And Test Setup	8
4.1 Product Information.....	8
4.2 Block Diagram Parameters Of Test Software Setting	8
4.3 Description Of Support Units (Conducted Mode)	8
4.4 Channel List	9
4.5 Test Mode	10
4.6 Test Conditions	10
4.7 Table Of Parameters Of Test Software Setting	10
5. Test Facility And Test Instrument Used	11
5.1 Test Facility	11
5.2 Test Instrument Used	11
6. RF Shielding Method	12
7. Frequency Error	13
7.1 Block Diagram Of Test Setup.....	13
7.2 Limit	13
7.3 Measuring Instruments And Setting	13
7.4 Test Procedure	13
7.5 Test Result.....	14
8. Antenna Power.....	18
8.1 Block Diagram Of Test Setup.....	18
8.2 Limit	18
8.3 Measuring Instruments And Setting	18
8.4 Test Procedure	18
8.5 Test Result.....	19
9. Occupied Bandwidth	20
9.1 Block Diagram Of Test Setup.....	20
9.2 Limit	20
9.3 Test Procedure	20
9.4 Test Result.....	20
10. Unwanted Emission Intensity Measurement.....	28
10.1 Block Diagram Of Test Setup.....	28
10.2 Limit	28
10.3 Measuring Instruments And Setting	28
10.4 Test Procedure	28
10.5 Test Result.....	29
11. Radio Interference Prevention Capability Measurement	85
11.1 Block Diagram Of Test Setup.....	85
11.2 Limit	85
11.3 Measuring Instruments And Setting	85
11.4 Test Procedure	85

11.5	Test Result.....	85
12.	Dwell Time.....	86
12.1	Block Diagram Of Test Setup.....	86
12.2	Limit	86
12.3	Measuring Instruments And Setting	86
12.4	Test Procedure	86
12.5	Test Result.....	87
13.	Carrier Sense	117
14.	Imitation Of Collateral Emission Of Receiver Measurement.....	118
14.1	Block Diagram Of Test Setup.....	118
14.2	Limit	118
14.3	Measuring Instruments And Setting	118
14.4	Test Procedure	118
14.5	Test Result.....	119
15.	EUT Photographs.....	127
16.	EUT Test Setup Photographs.....	128

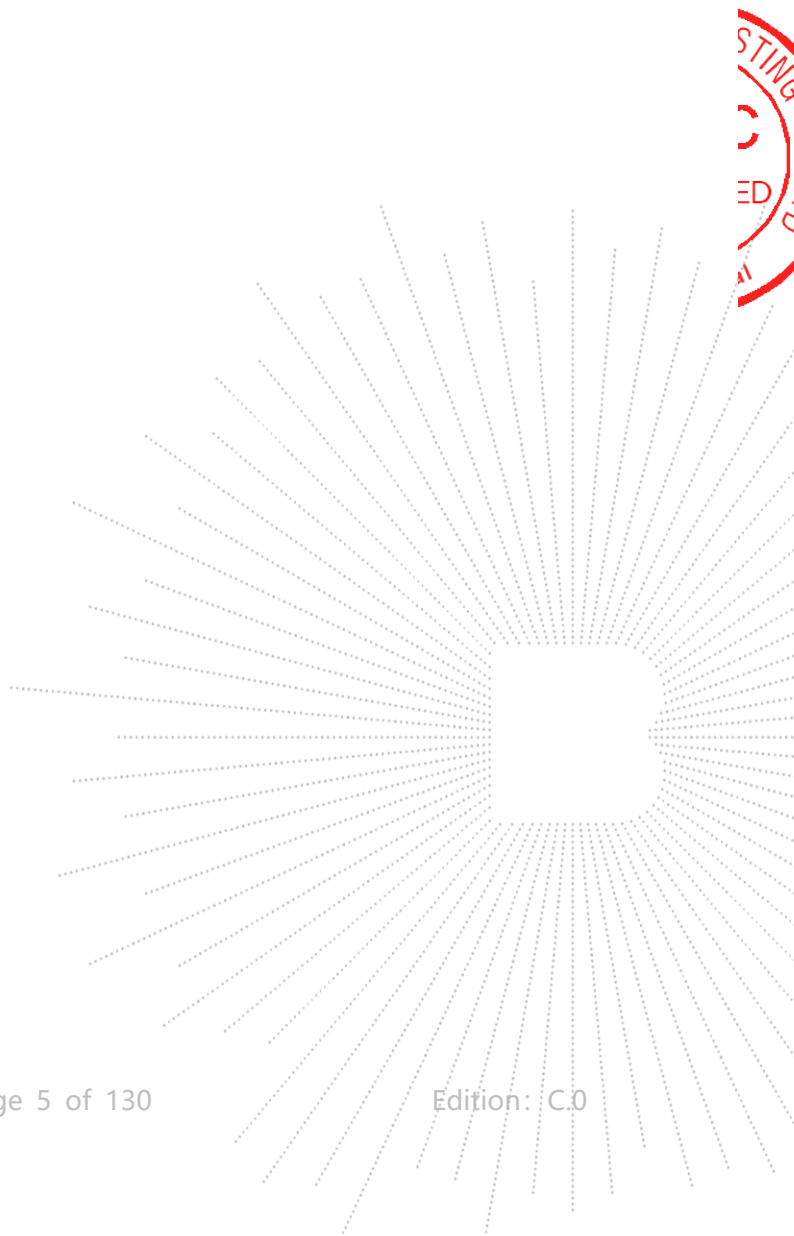
(Note: N/A Means Not Applicable)



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1. Version

Report No.	Issue Date	Description	Approved
BCTC2509100692E	2025-10-09	Original	Valid



2. Test Summary

Test procedures according to the technical standards:

Article 2 paragraph 1 of item 19			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	
6	Occupied Bandwidth	PASS	
7	Spurious Emissions Intensity	PASS	
8	Radio Interference Prevention Capability Measurement	PASS	
Transmitting equipment			
6	Antenna Power	PASS	
Transmitting antenna			
20	Type, Configuration, etc., of Transmitting Antenna	PASS	
22	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS	
Receiving antenna			
24	Limitation of Collateral Emission of Receiver	PASS	
26	Refer to All Articles for Transmitting Antenna	PASS	
Operating frequency 2400~2483.5MHz			
49.20(1);a	RF Shielding Method	PASS	
49.20(1);a	Communication Method	PASS	
49.20(1);b	Spread-spectrum Method	PASS	
49.20(1);c	Antenna Power	PASS	
49.20(1);d	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS	
49.20(1);e	Spread-Spectrum Bandwidth	PASS	
49.20(1);f	Spreading Factor	PASS	
49.20(1);g	Hopping Frequency Dwell Time (FH employed)	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

3. 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 %.

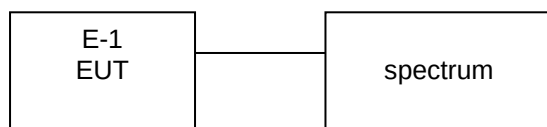
No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power,conducted	$\pm 0.16\text{dB}$
4	Spurious emissions,conducted	$\pm 0.21\text{dB}$
5	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions,radiated(>1G)	$\pm 5.0\text{dB}$
7	frequency error ppm	$\pm 0.5\text{ppm}$

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	E13 E13-1, E13-2, E13-3, E13-4, E13-5, E13-6, E13-7, E13-8, E13-9
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	V1.1
Software Version:	V1.8
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number Of Channel:	79 CH
Antenna installation:	Chip antenna 2.67 dBi
Antenna Gain:	Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 5V from USB, DC 3.7V from battery

4.2 Block Diagram Parameters Of Text Software Setting



4.3 Description Of Support Units (Conducted Mode)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AUDIO GLASSES	N/A	E13	N/A	EUT

Notes:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

4.4 Channel List

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		

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	Description	Modulation Type
Mode 1	CH 00	GFSK
Mode 2	CH 39	
Mode 3	CH 78	
Mode 4	RX	
Mode 5	CH 00	$\pi/4$ -DQPSK
Mode 6	CH 39	
Mode 7	CH 78	
Mode 8	RX	
Mode 9	CH 00	8DPSK
Mode 10	CH 39	
Mode 11	CH 78	
Mode 12	RX	

4.6 Test Conditions

The EUT was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

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	3.7V	4.07V	3.33V
Voltage Variation (%)	0%	+10%	-10%
RF input point power (DC)	3.3V	3.3V	3.3V

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, $\pm 10\%$ of the external power change, will not affect the voltage of the RF, so only operated in normal voltage to test all regulations.

4.7 Table Of Parameters Of Test Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	bt_tool_v1.1.4		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Item	Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
1.	Power Meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
2.	Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
3.	D.C. Power Supply	LongWei	TPR-6405D	\	May 14, 2025	May 13, 2026
4.	Signal Generator	Keysight	N5182B	MY56200519	May 14, 2025	May 13, 2026
5.	Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 14, 2025	May 13, 2026
6.	Hygrothermograph	Thermo	HTC-1	\	May 19, 2025	May 18, 2026

Calibration laboratory: CCIC(Shenzhen) Co., Ltd

● Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)	
☐	a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act
☐	(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above

6. RF Shielding Method

Chipset:

The product structure is uses SMD patch process.

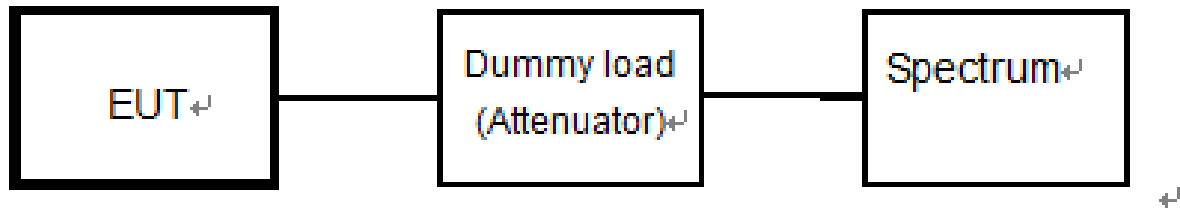
As shown in the picture, If the will be open so the product be damage.

Number of the pins: 20 interval distance 0.5mm



7. Frequency Error

7.1 Block Diagram Of Test Setup



7.2 Limit

Item	Limits
Frequency Error	±50ppm

7.3 Measuring Instruments And Setting

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

7.4 Test Procedure

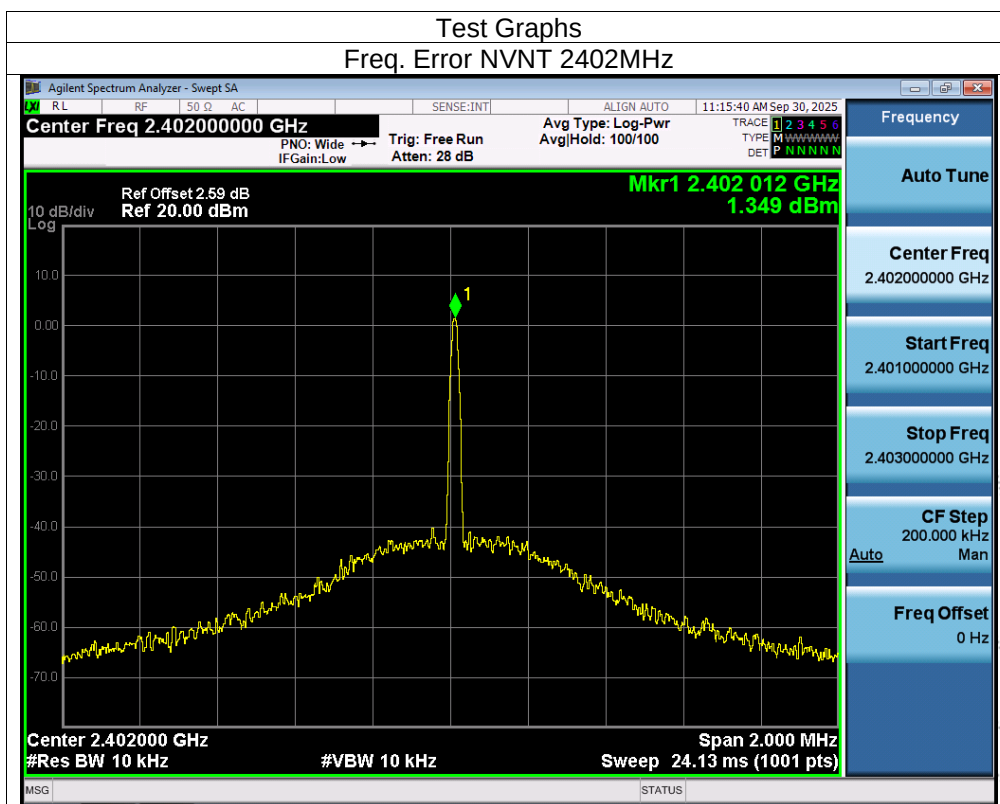
- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
 - (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes 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.

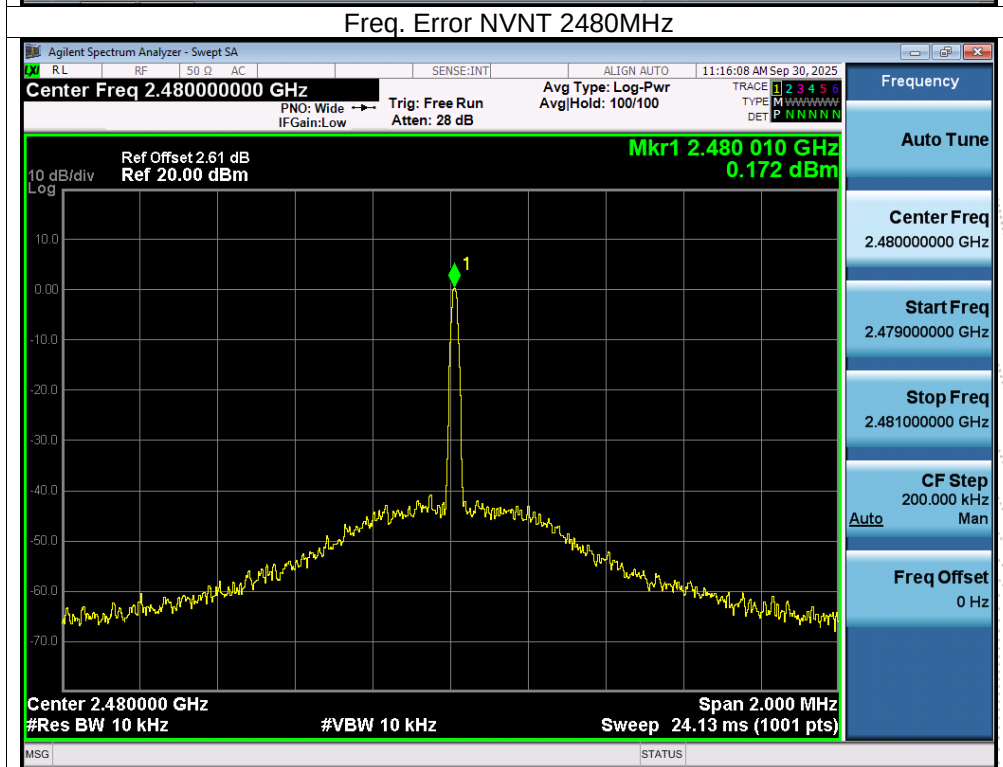
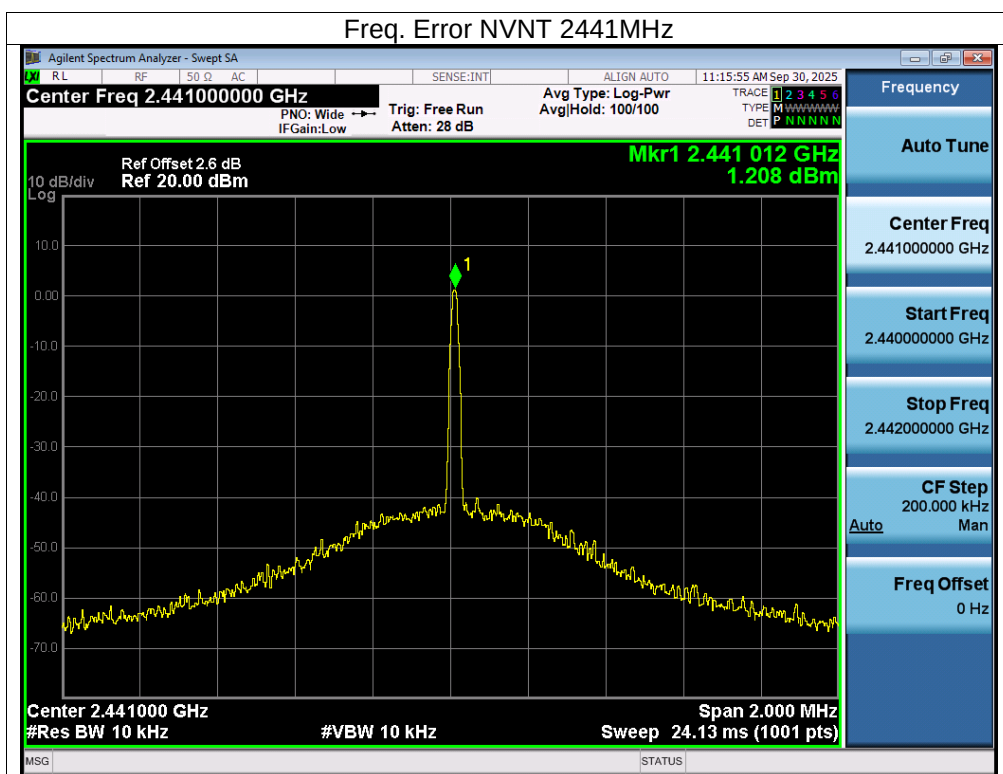
7.5 Test Result

Left

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	2402.012	12000	5	±50	Pass
NVNT	2441	2441.012	12000	4.92	±50	Pass
NVNT	2480	2480.01	10000	4.03	±50	Pass

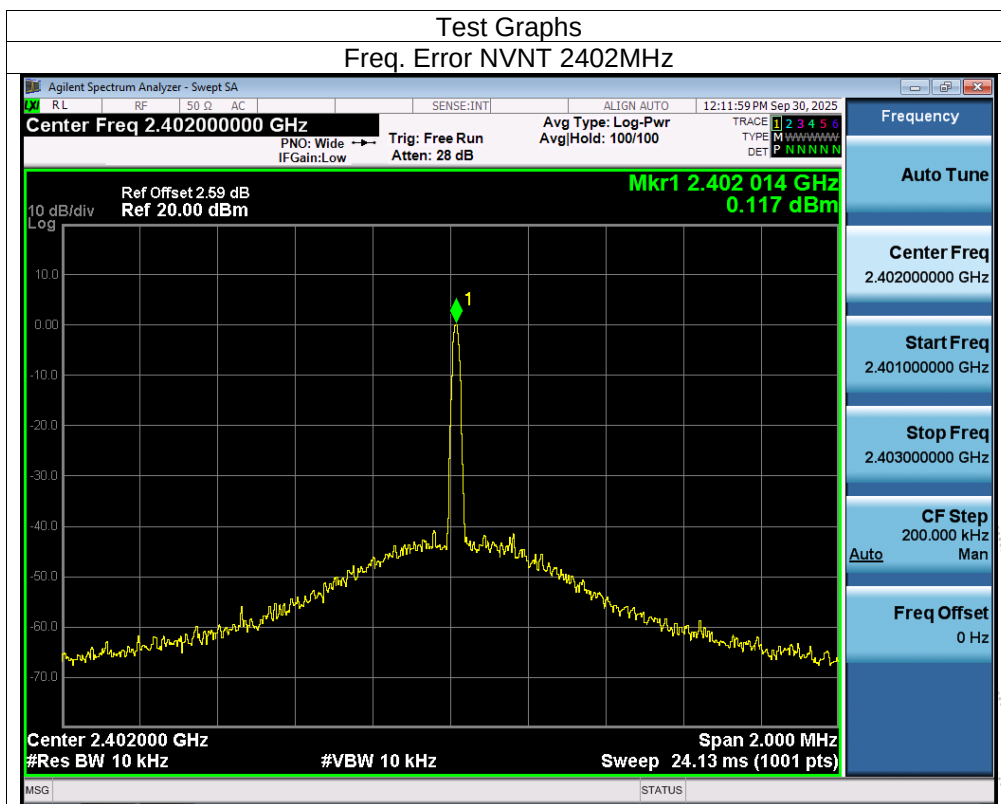


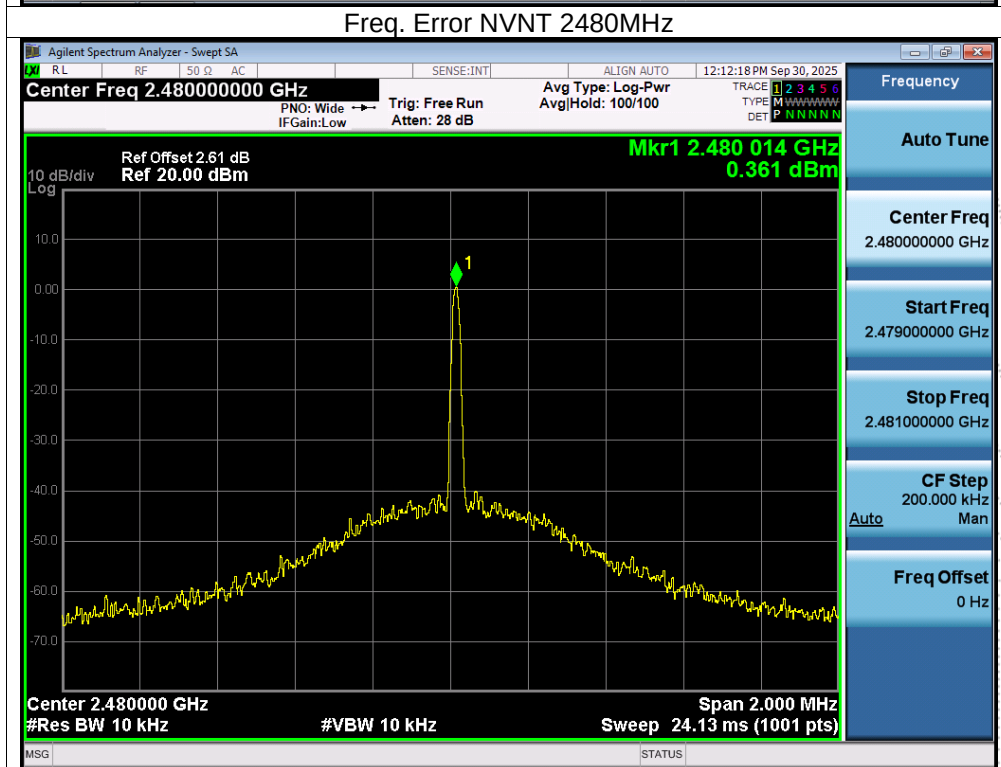
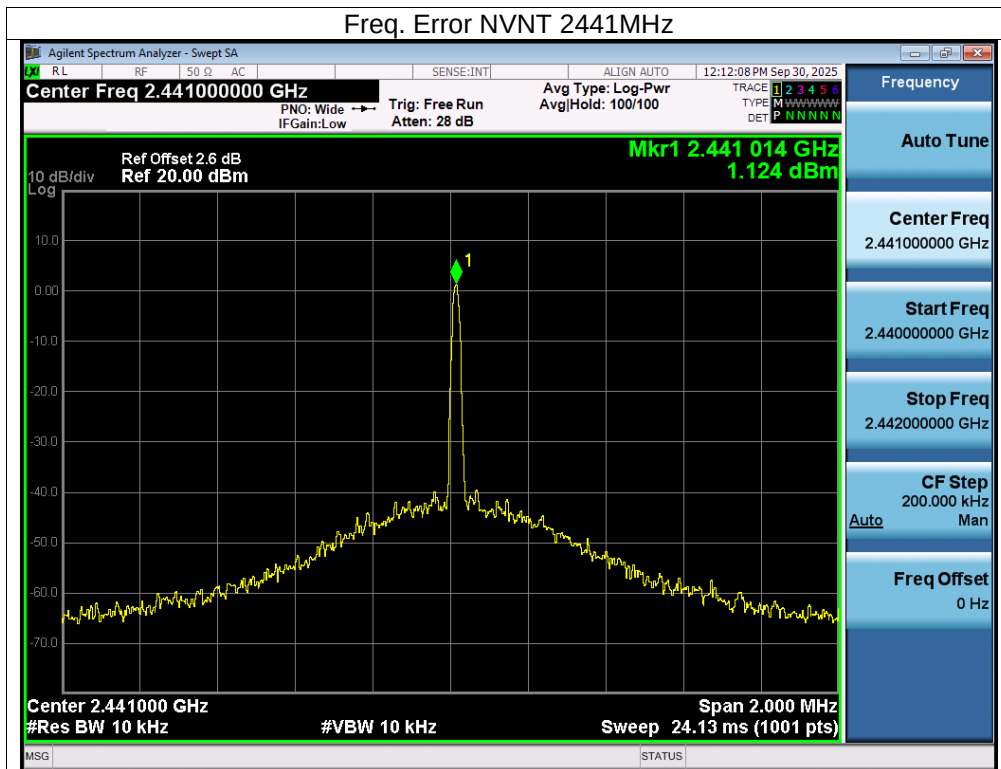


Right

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

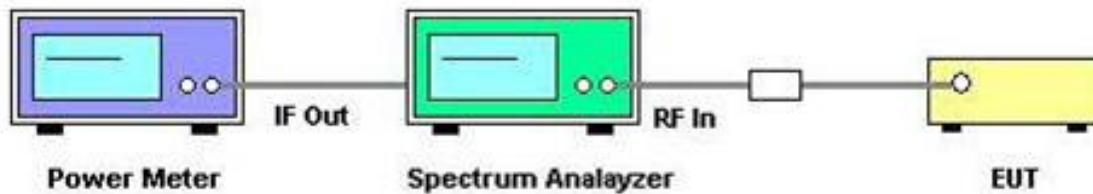
Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	2402.014	14000	5.83	±50	Pass
NVNT	2441	2441.014	14000	5.74	±50	Pass
NVNT	2480	2480.014	14000	5.65	±50	Pass





8. Antenna Power

8.1 Block Diagram Of Test Setup



8.2 Limit

Item	Limits
Antenna Power Density	(1) $\leq 3\text{mW/MHz}$ (FH, FH+DS, FH+OFDM form 2400 - 2483.5 MHz) (2) $\leq 10\text{mW/MHz}$ (OFDM OBW < 26MHz, DS, FH other than (1)) (3) $\leq 5\text{mW/MHz}$ (OFDM OBW 26-38MHz) (4) $\leq 10\text{mW}$ (Other than (1) & (2)& (3))
Antenna Power Error	+20% No lower Limit

8.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.4 Test Procedure

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Calculate antenna power density by the formula below $PD = P / \text{Spread bandwidth}$.
7. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

8.5 Test Result

Left

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

Condition	Mode	Power (dBm)	Antenna Power (mW)	90% OBW (MHz)	Conducted RF output power density (mW/MHz)	Rated power density (mW/MHz)	Limit (mW/MHz)	Tolerance (%)	Verdict
NVNT	1-DH1	-0.97	0.80	71.387	0.0112	0.02	3	-44	Pass
NVNT	2-DH1	-0.72	0.85	71.37	0.0119	0.02	3	-41	Pass
NVNT	3-DH1	-0.43	0.91	71.461	0.0127	0.02	3	-37	Pass
Limit: +20%, -80% (Base on manufacturer declare antenna power density)									
Conducted RF output power density=Antenna Power/ 90%Hopping Occupied bandwidth									

Condition	Mode	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH1	-19.51	2.67	-16.84	6.91	Pass
NVNT	2-DH1	-19.24	2.67	-16.57	6.91	Pass
NVNT	3-DH1	-18.96	2.67	-16.29	6.91	Pass

Right

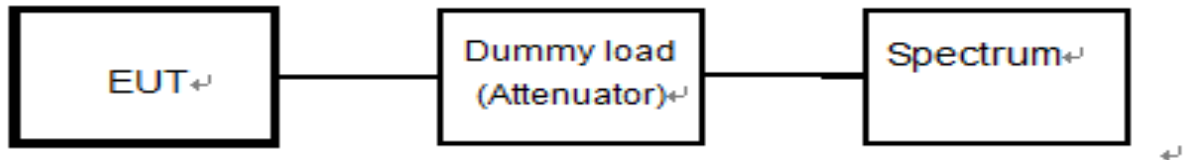
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

Condition	Mode	Power (dBm)	Antenna Power (mW)	90% OBW (MHz)	Conducted RF output power density (mW/MHz)	Rated power density (mW/MHz)	Limit (mW/MHz)	Tolerance (%)	Verdict
NVNT	1-DH1	0.56	1.14	71.29	0.0160	0.02	3	-20	Pass
NVNT	2-DH1	0.71	1.18	71.304	0.0165	0.02	3	-17	Pass
NVNT	3-DH1	0.77	1.19	71.353	0.0167	0.02	3	-16	Pass
Limit: +20%, -80% (Base on manufacturer declare antenna power density)									
Conducted RF output power density=Antenna Power/ 90%Hopping Occupied bandwidth									

Condition	Mode	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH1	-17.97	2.67	-15.30	6.91	Pass
NVNT	2-DH1	-17.82	2.67	-15.15	6.91	Pass
NVNT	3-DH1	-17.76	2.67	-15.09	6.91	Pass

9. Occupied Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DS $\leq$ 26MHz;Others $\leq$ 26MHz
Spreading Bandwidth:	N/A
Spreading Factor	N/A

9.3 Test Procedure

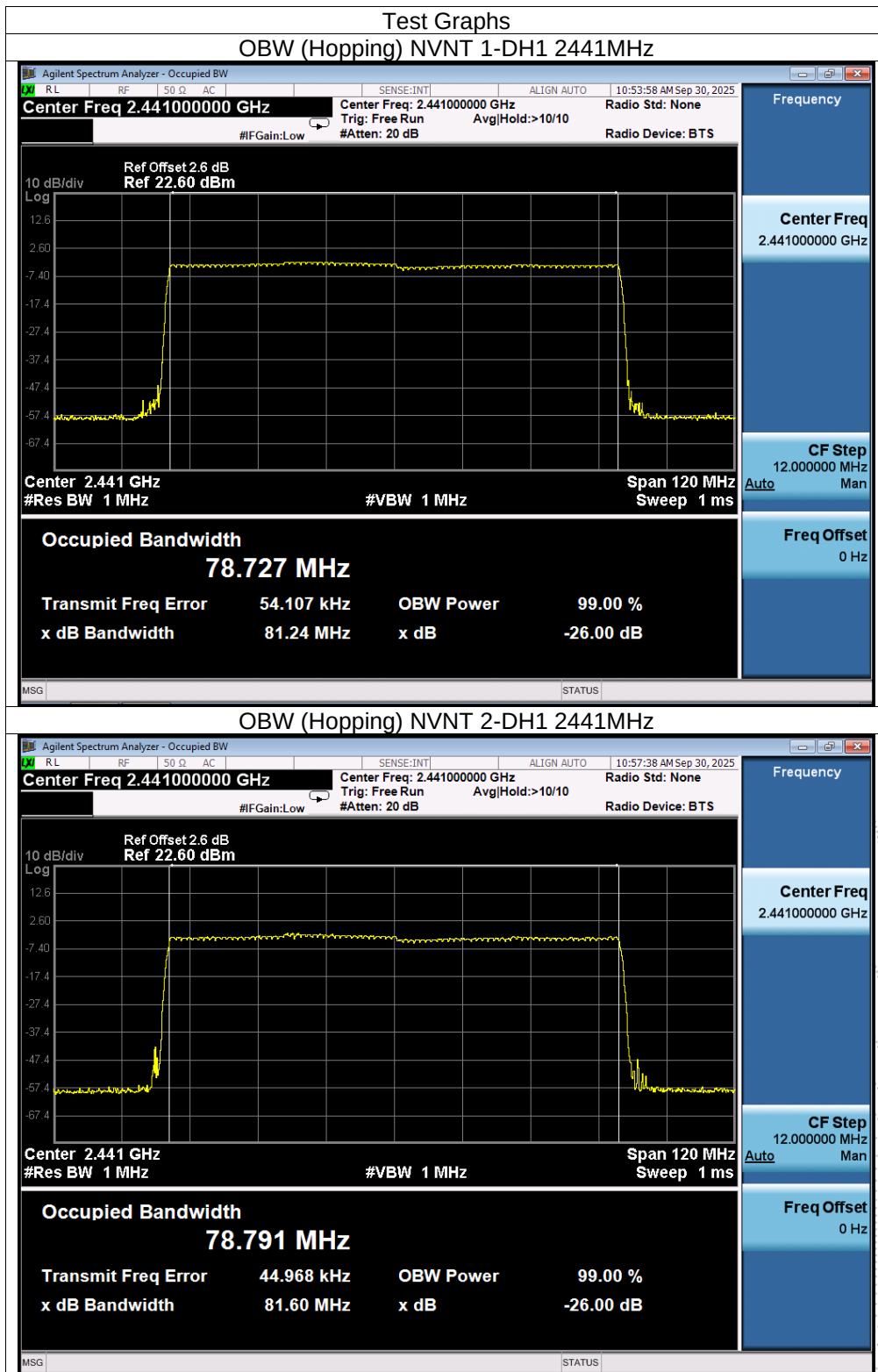
- Setting of SA is following as: RB: 1MHz / VB: 1 MHz / SPAN: 120MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous 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 DSSS or OFDM Device) or 83.5MHz (For FHSS Device).

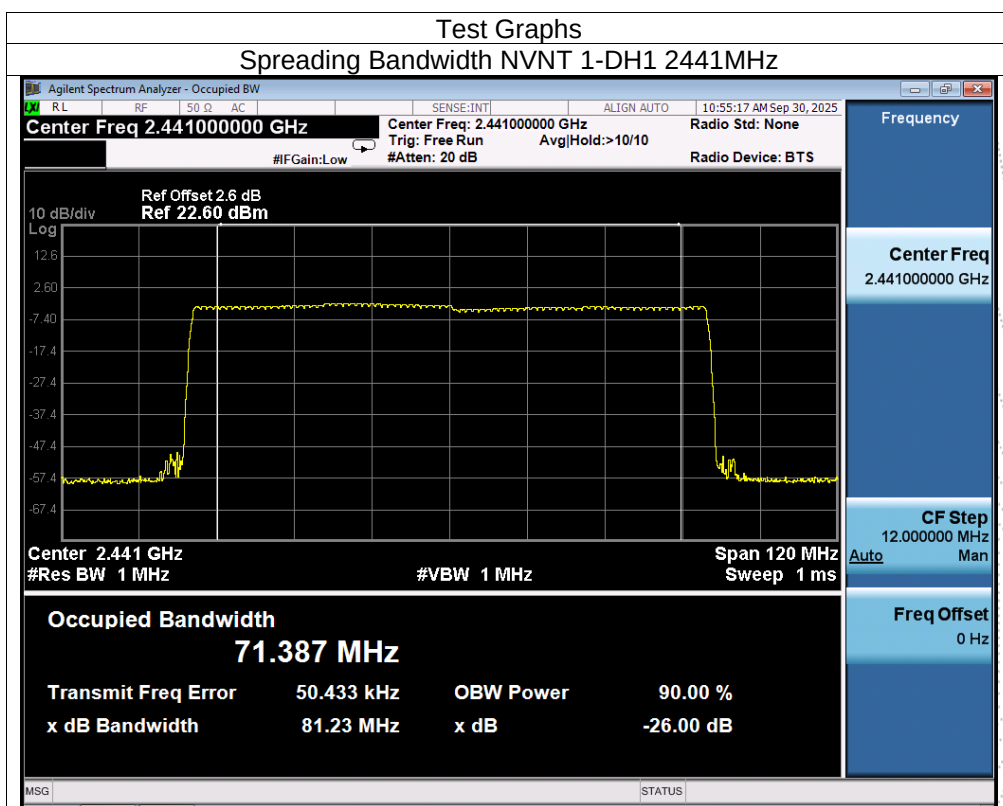
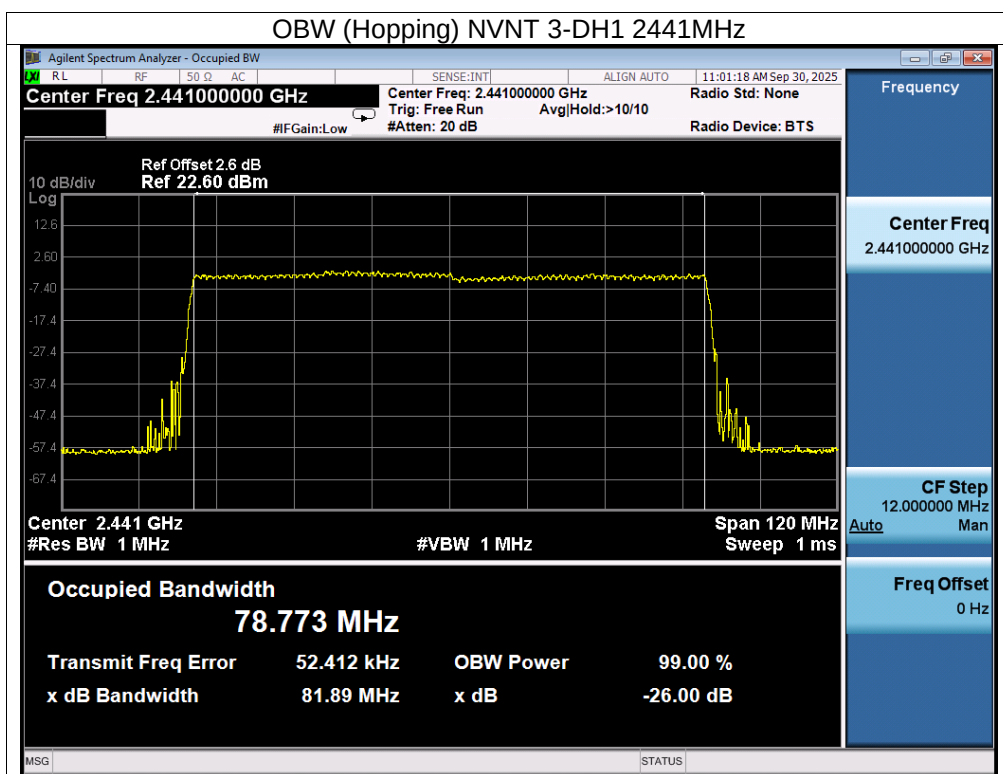
9.4 Test Result

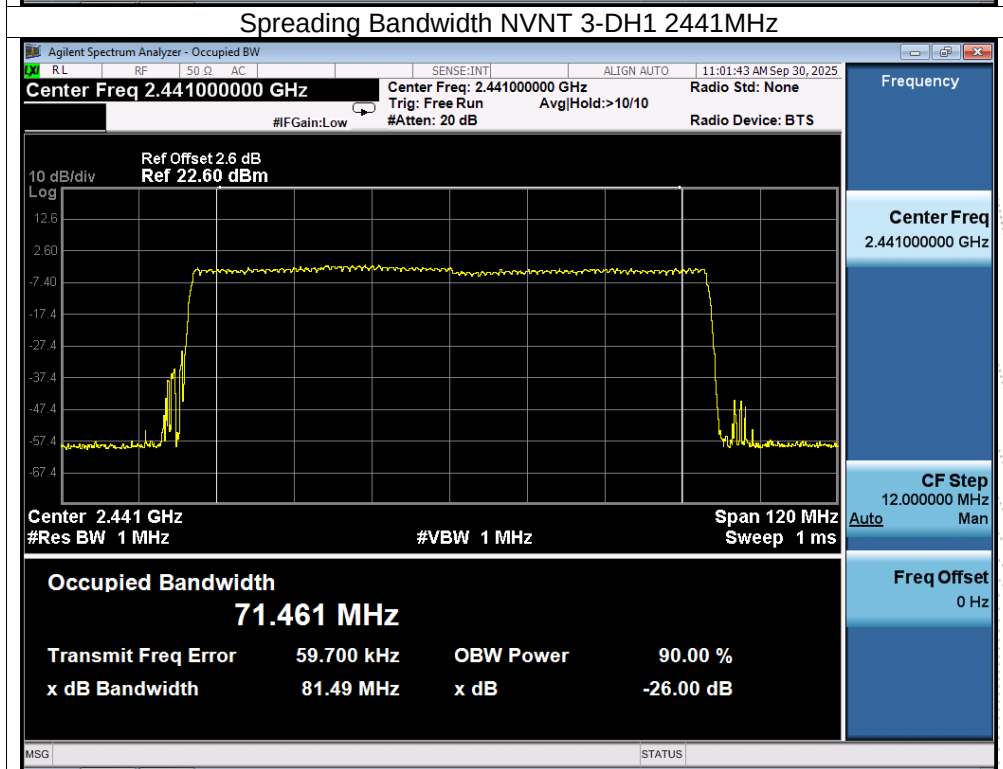
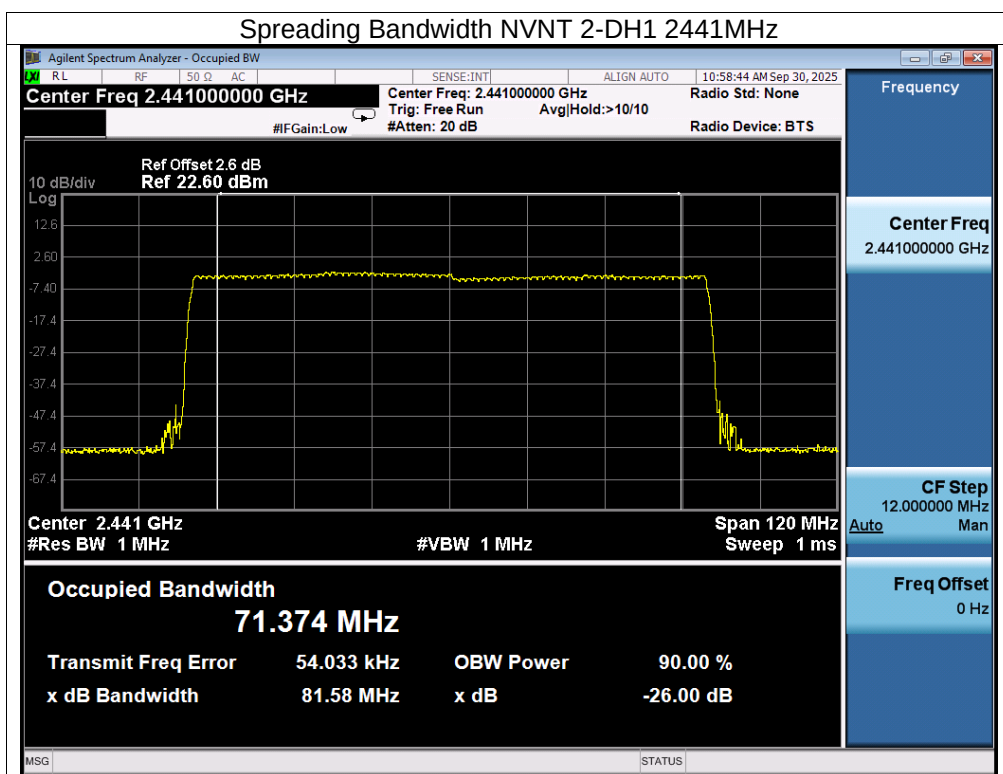
Left

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

Test Condition	Mode	99% OBW (MHz)	90% OBW (MHz)	Verdict
NVNT	GFSK	78.727	71.387	Pass
NVNT	$\pi/4$ -DQPSK	78.791	71.37	Pass
NVNT	8DPSK	78.773	71.461	Pass





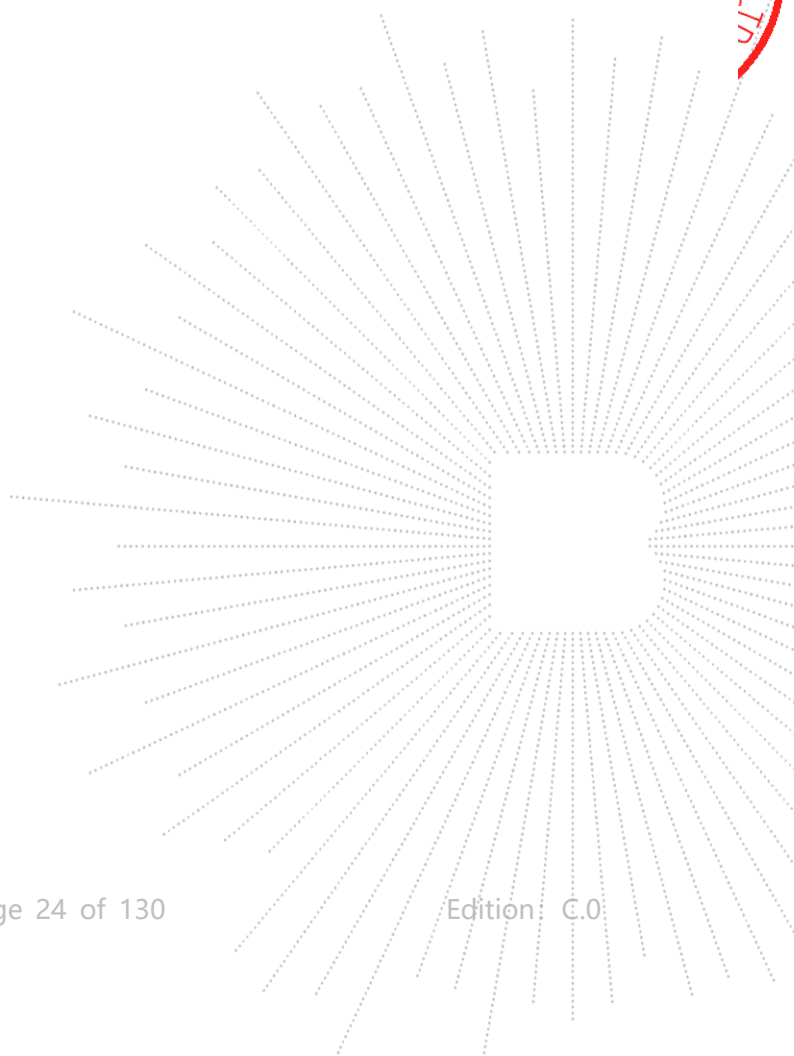


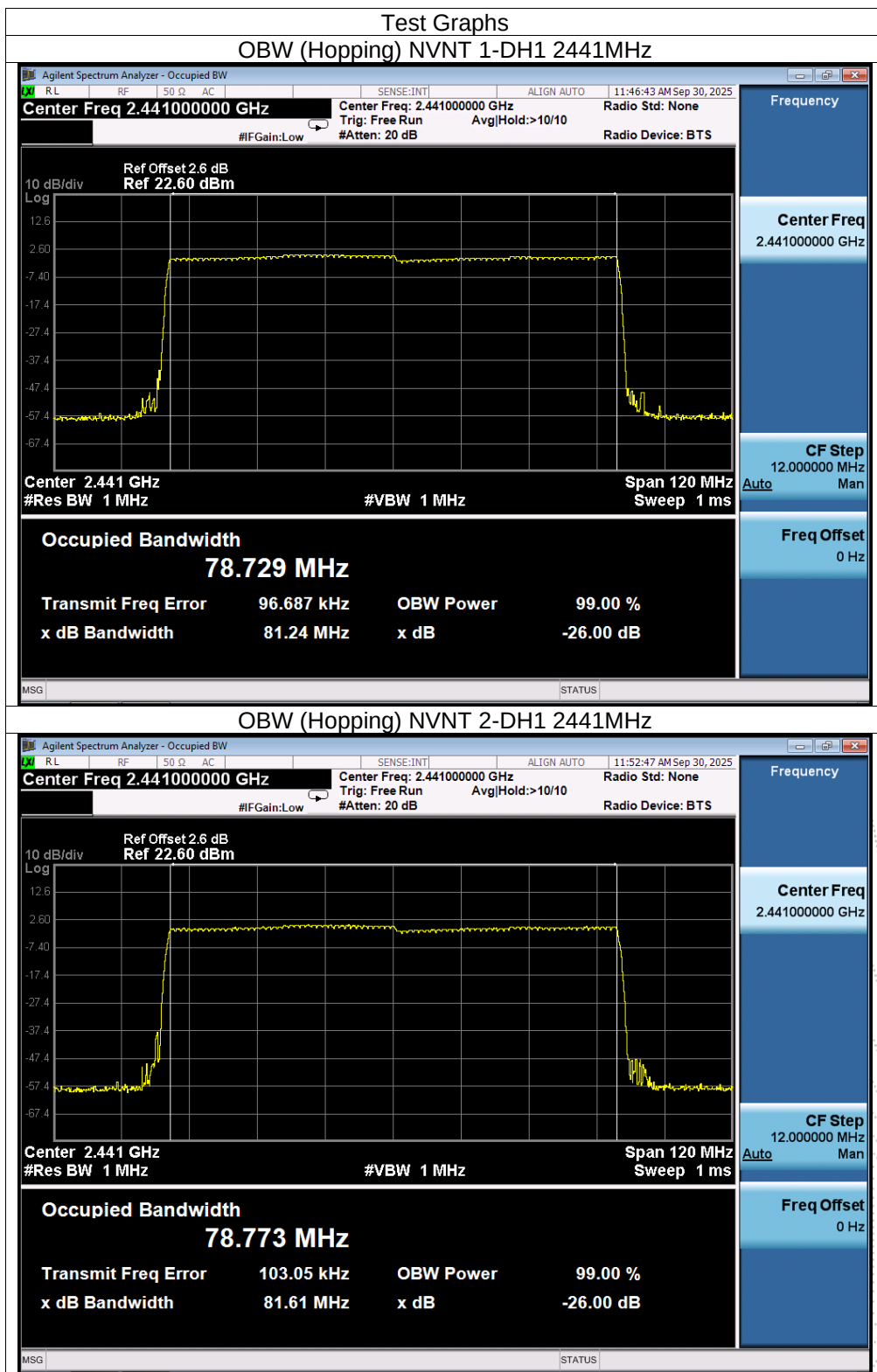
Right

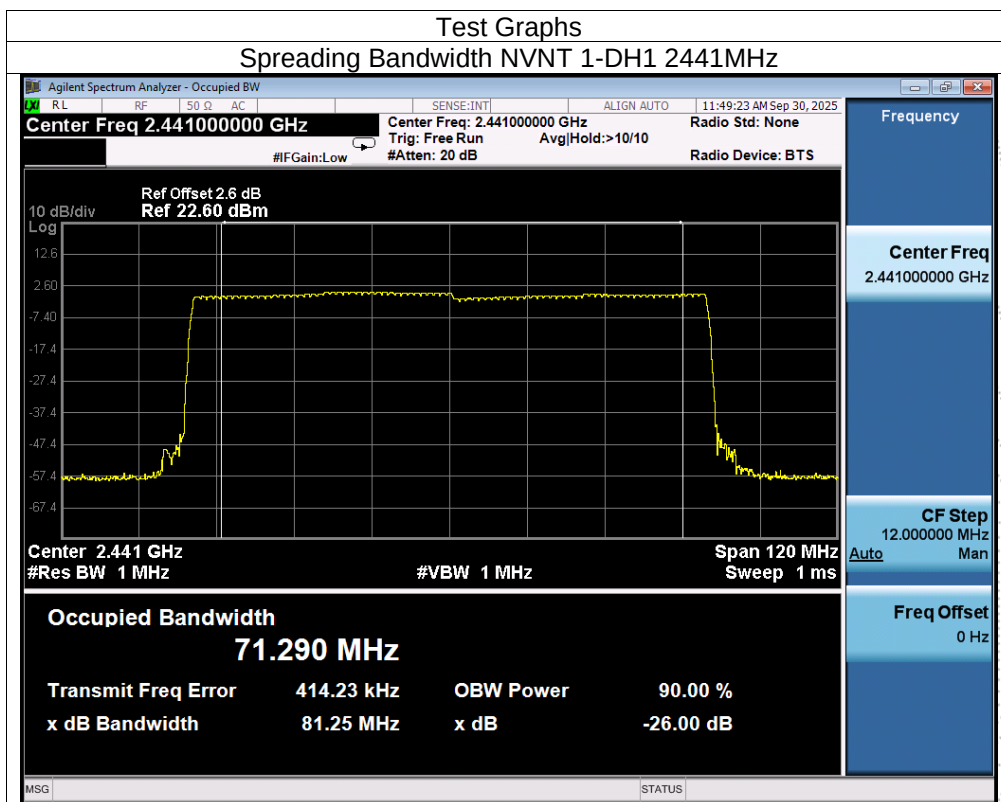
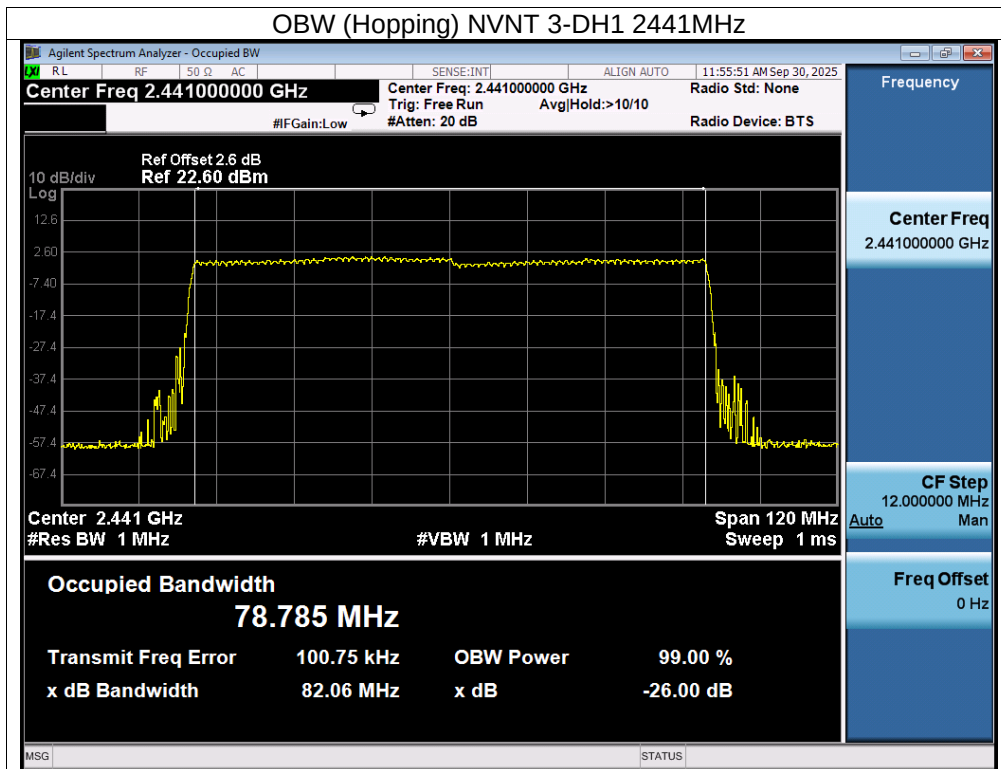
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

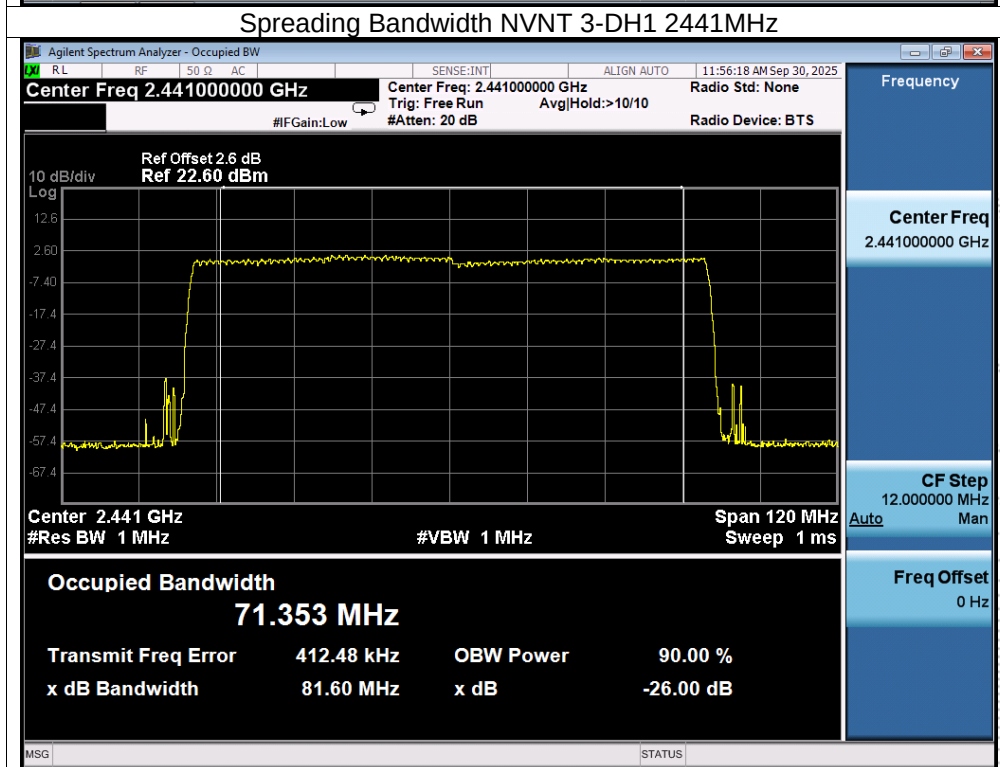
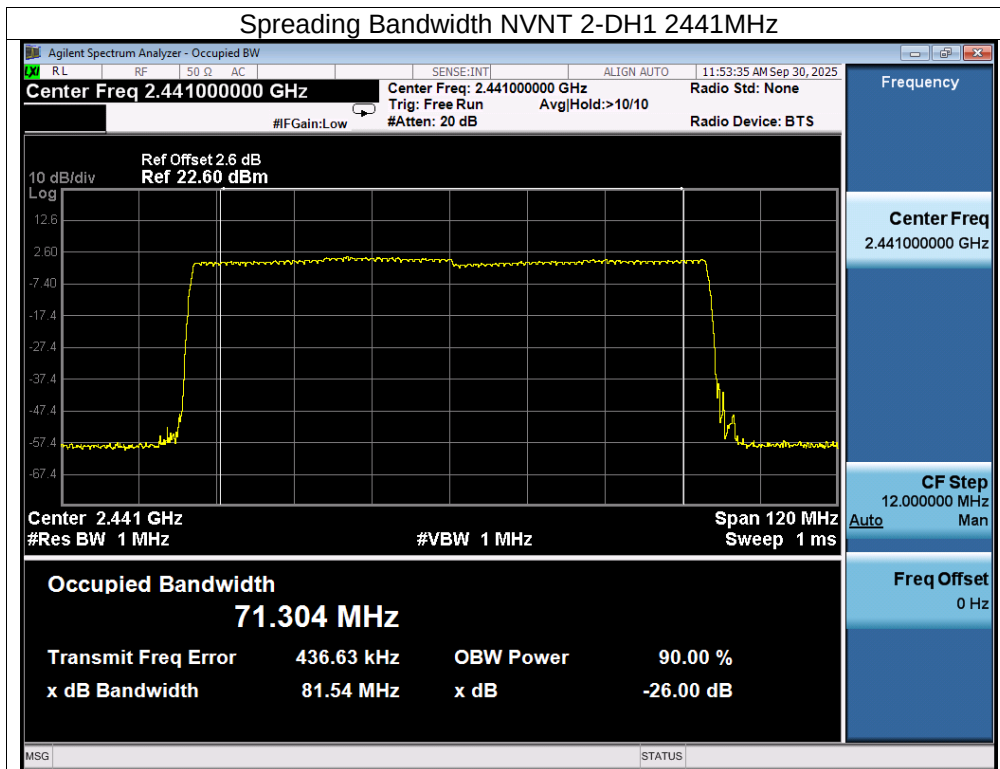
Test Condition	Mode	99% OBW (MHz)	90% OBW (MHz)	Verdict
NVNT	GFSK	78.729	71.29	Pass
NVNT	$\pi/4$ -DQPSK	78.773	71.304	Pass
NVNT	8DPSK	78.785	71.353	Pass

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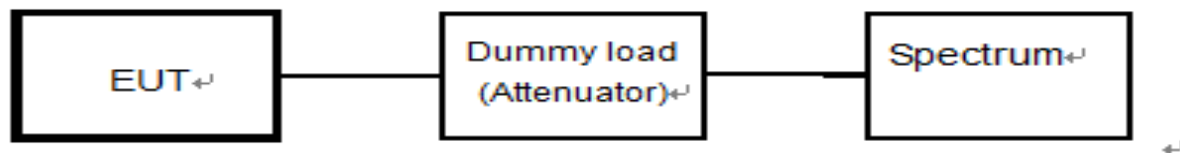






10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

Item	RB / VB	Limits
TX Spurious Emission	100KHz	$\leq 0.25 \mu\text{W}$ (-36dBm) ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	1 MHz	$\leq 2.5 \mu\text{W}$ (-26dBm ($1000\text{MHz} < f \leq 2387\text{MHz}$))
	1 MHz	$\leq 25 \mu\text{W}$ (-16dBm ($2387\text{MHz} < f \leq 2400\text{MHz}$))
	1 MHz	$\leq 25 \mu\text{W}$ (-16dBm ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$))
	1 MHz	$\leq 2.5 \mu\text{W}$ (-26dBm ($2496.5\text{MHz} \leq f < 12500\text{MHz}$))

10.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.4 Test Procedure

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB: 100 KHz / VB: 100 KHz
Above 1GHz RB: 1 MHz / VB: 1 MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25μW.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz: Then to mark peak reading value + cable loss shall be less than 25μW.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW

10.5 Test Result

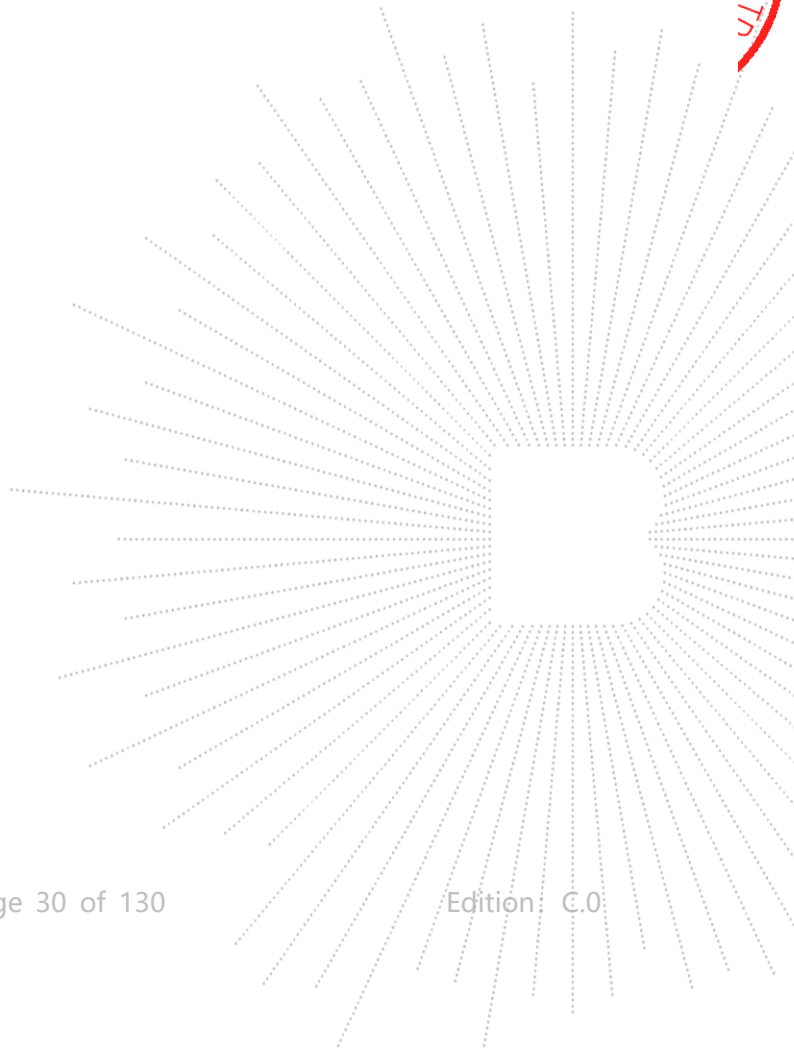
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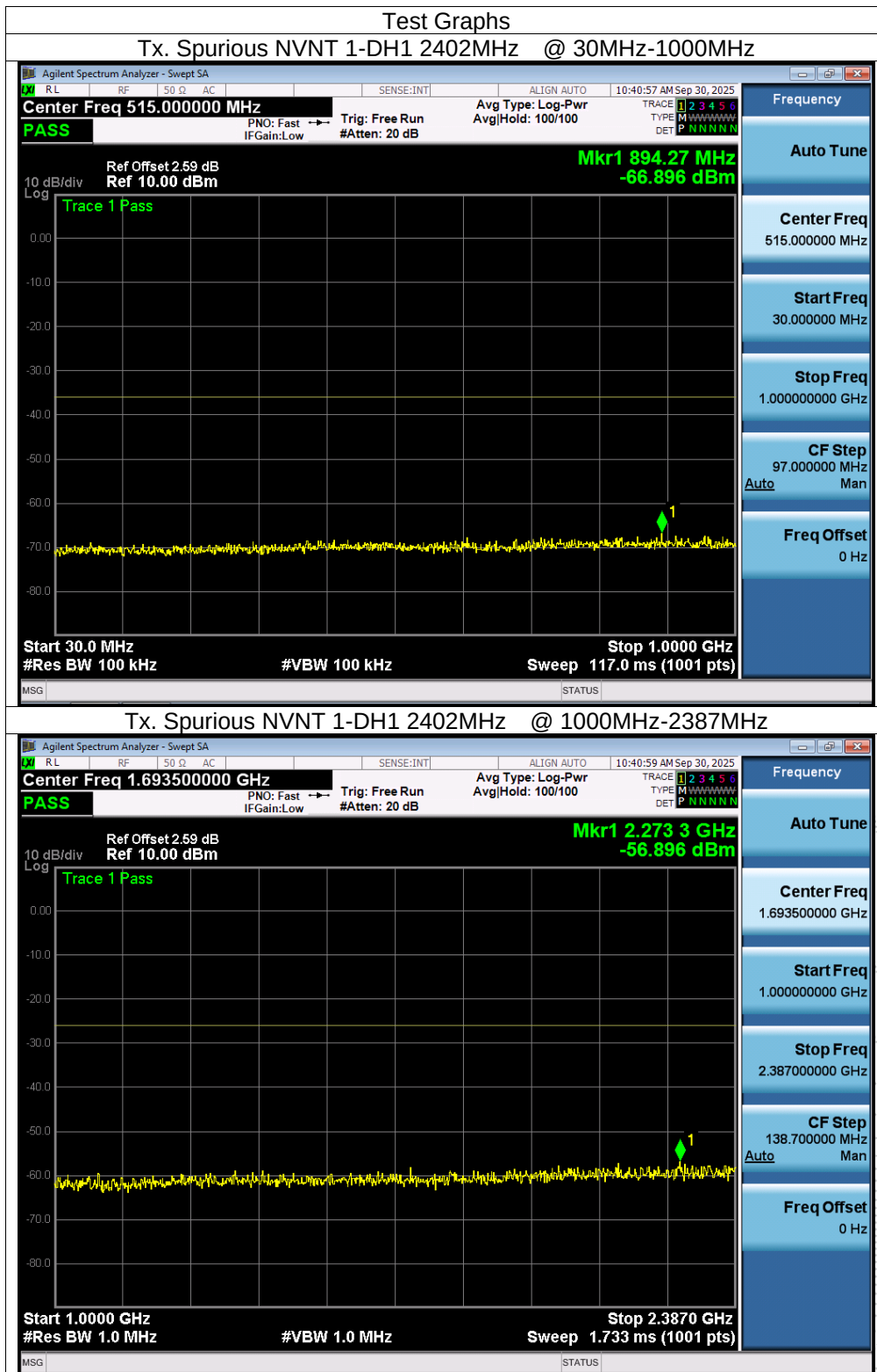
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V
Test Mode:	No-hopping		

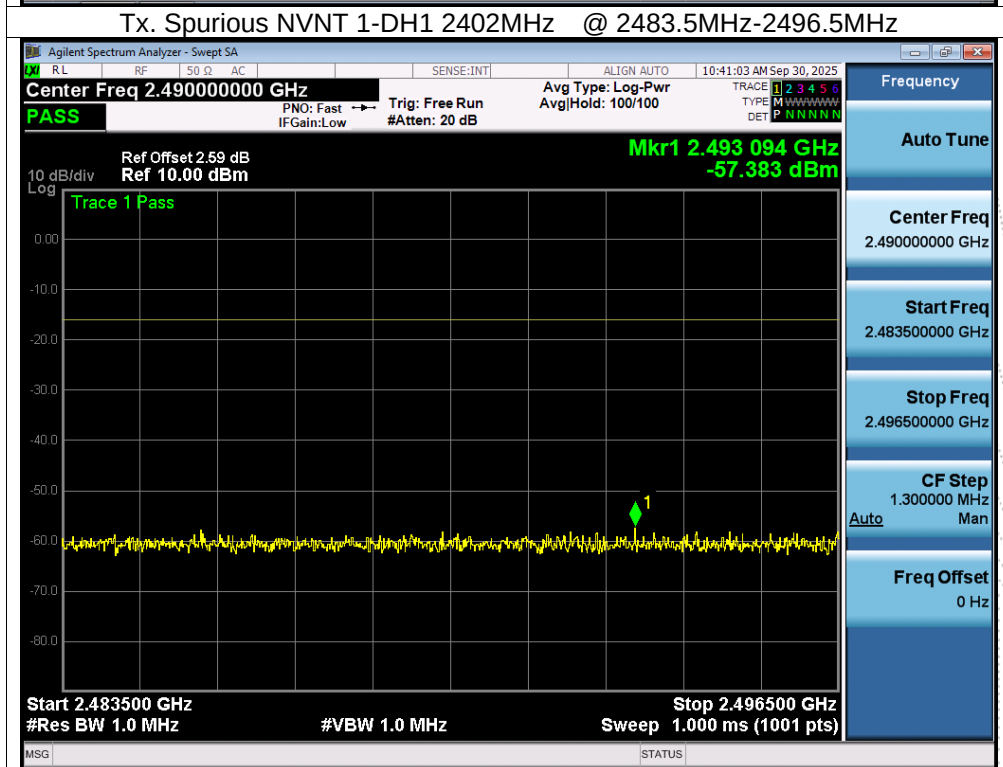
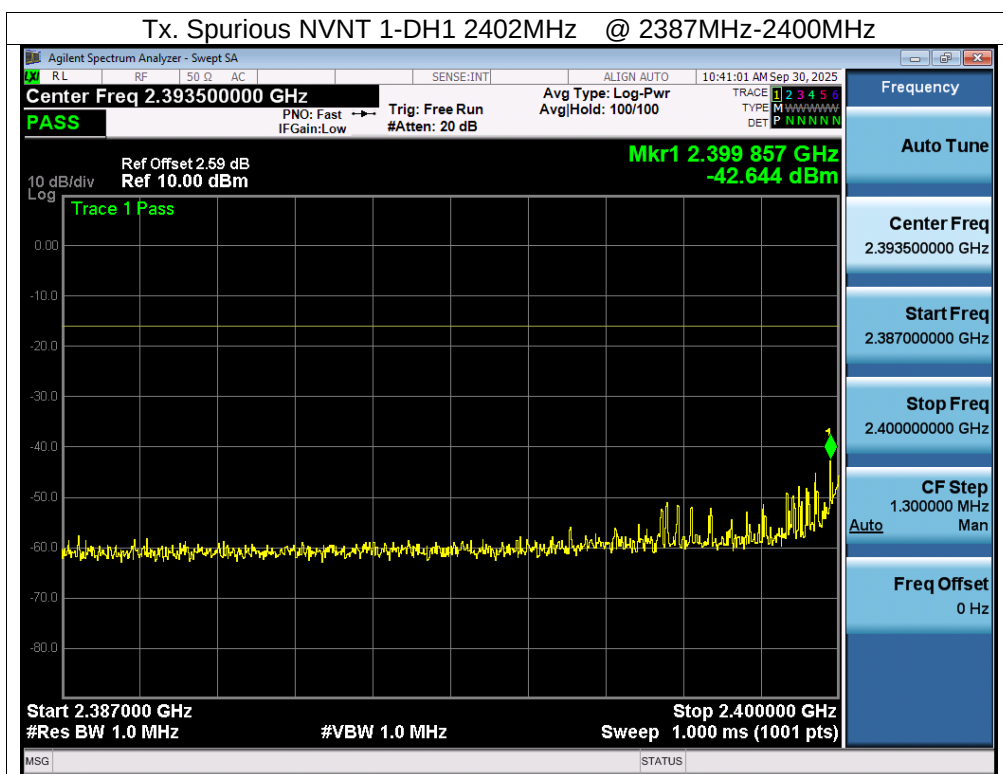
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	1-DH1	2402	30-1000	894.27	-66.9	-36	-36	Pass
NVNT	1-DH1	2402	1000-2387	2273.27	-56.9	-26	-26	Pass
NVNT	1-DH1	2402	2387-2400	2399.86	-42.64	-16	-16	Pass
NVNT	1-DH1	2402	2483.5-2496.5	2493.09	-57.38	-16	-16	Pass
NVNT	1-DH1	2402	2496.5-13000	4807.27	-39.48	-26	-26	Pass
NVNT	1-DH1	2441	30-1000	872.93	-66.34	-36	-36	Pass
NVNT	1-DH1	2441	1000-2387	2224.72	-56.53	-26	-26	Pass
NVNT	1-DH1	2441	2387-2400	2397.11	-58.08	-16	-16	Pass
NVNT	1-DH1	2441	2483.5-2496.5	2495.82	-57.35	-16	-16	Pass
NVNT	1-DH1	2441	2496.5-13000	4880.79	-40.39	-26	-26	Pass
NVNT	1-DH1	2480	30-1000	886.51	-66.85	-36	-36	Pass
NVNT	1-DH1	2480	1000-2387	2356.49	-56.85	-26	-26	Pass
NVNT	1-DH1	2480	2387-2400	2393.67	-57.74	-16	-16	Pass
NVNT	1-DH1	2480	2483.5-2496.5	2484.71	-50.19	-16	-16	Pass
NVNT	1-DH1	2480	2496.5-13000	4964.82	-41.72	-26	-26	Pass
NVNT	2-DH1	2402	30-1000	923.37	-66.61	-36	-36	Pass
NVNT	2-DH1	2402	1000-2387	2319.04	-57.41	-26	-26	Pass
NVNT	2-DH1	2402	2387-2400	2399.97	-38.49	-16	-16	Pass
NVNT	2-DH1	2402	2483.5-2496.5	2494.06	-57.36	-16	-16	Pass
NVNT	2-DH1	2402	2496.5-13000	4807.27	-39.32	-26	-26	Pass
NVNT	2-DH1	2441	30-1000	882.63	-66.46	-36	-36	Pass
NVNT	2-DH1	2441	1000-2387	2162.31	-57.05	-26	-26	Pass
NVNT	2-DH1	2441	2387-2400	2396.82	-57.52	-16	-16	Pass
NVNT	2-DH1	2441	2483.5-2496.5	2492.09	-56.97	-16	-16	Pass
NVNT	2-DH1	2441	2496.5-13000	4880.79	-40.35	-26	-26	Pass
NVNT	2-DH1	2480	30-1000	899.12	-66.49	-36	-36	Pass
NVNT	2-DH1	2480	1000-2387	2334.29	-57.23	-26	-26	Pass
NVNT	2-DH1	2480	2387-2400	2399.82	-57.88	-16	-16	Pass
NVNT	2-DH1	2480	2483.5-2496.5	2483.8	-47.32	-16	-16	Pass
NVNT	2-DH1	2480	2496.5-13000	4964.82	-42.03	-26	-26	Pass
NVNT	3-DH1	2402	30-1000	740.04	-66.64	-36	-36	Pass
NVNT	3-DH1	2402	1000-2387	2203.92	-57.41	-26	-26	Pass
NVNT	3-DH1	2402	2387-2400	2399.74	-29.31	-16	-16	Pass
NVNT	3-DH1	2402	2483.5-2496.5	2487.7	-57.79	-16	-16	Pass
NVNT	3-DH1	2402	2496.5-13000	3494.33	-32.12	-26	-26	Pass
NVNT	3-DH1	2441	30-1000	868.08	-66.78	-36	-36	Pass
NVNT	3-DH1	2441	1000-2387	2327.36	-56.53	-26	-26	Pass

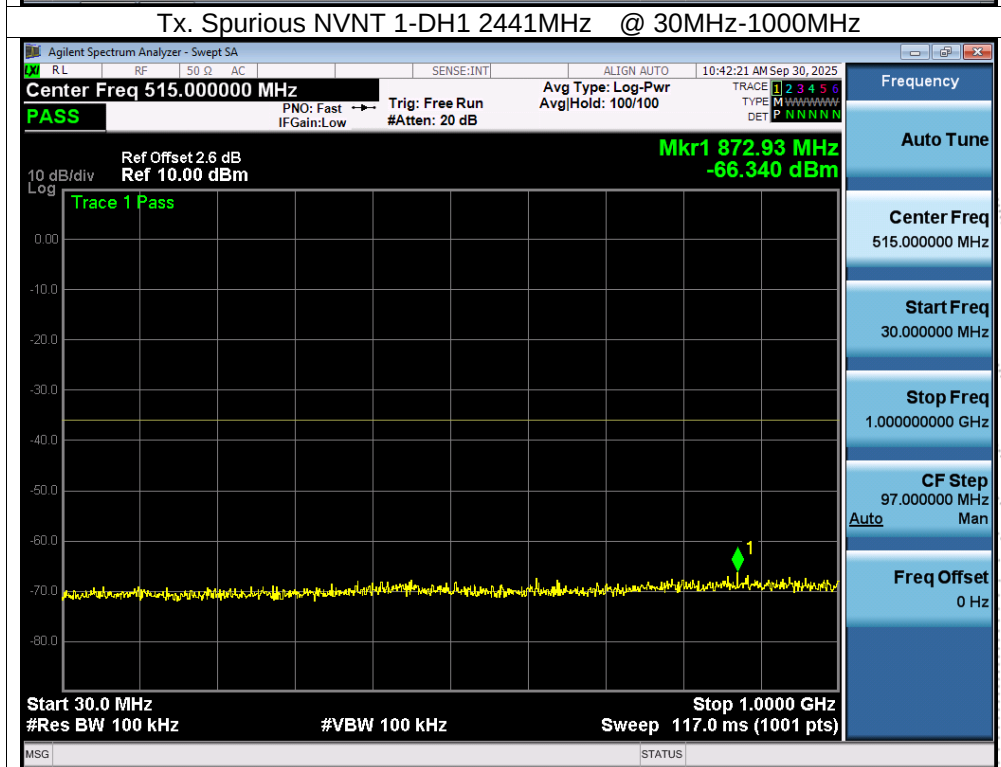
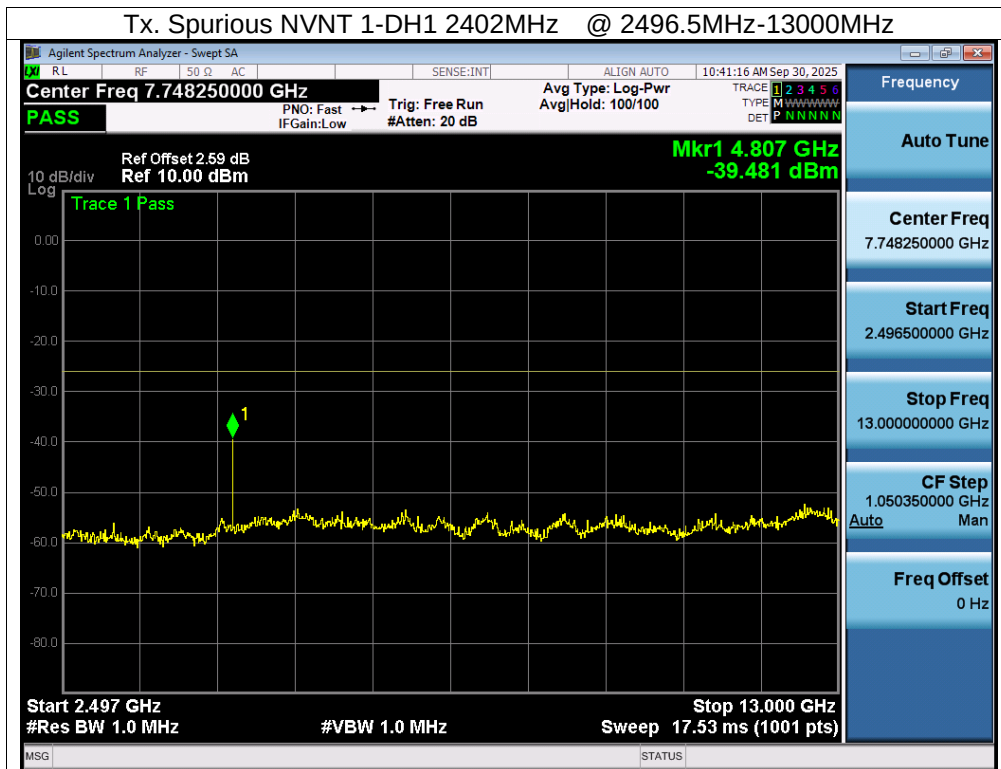
NVNT	3-DH1	2441	2387-2400	2399.39	-57.89	-16	-16	Pass
NVNT	3-DH1	2441	2483.5-2496.5	2495.13	-57.39	-16	-16	Pass
NVNT	3-DH1	2441	2496.5-13000	4880.79	-40.53	-26	-26	Pass
NVNT	3-DH1	2480	30-1000	976.72	-67.1	-36	-36	Pass
NVNT	3-DH1	2480	1000-2387	2040.25	-57.05	-26	-26	Pass
NVNT	3-DH1	2480	2387-2400	2396.06	-57.72	-16	-16	Pass
NVNT	3-DH1	2480	2483.5-2496.5	2483.51	-34.72	-16	-16	Pass
NVNT	3-DH1	2480	2496.5-13000	4964.82	-41.34	-26	-26	Pass

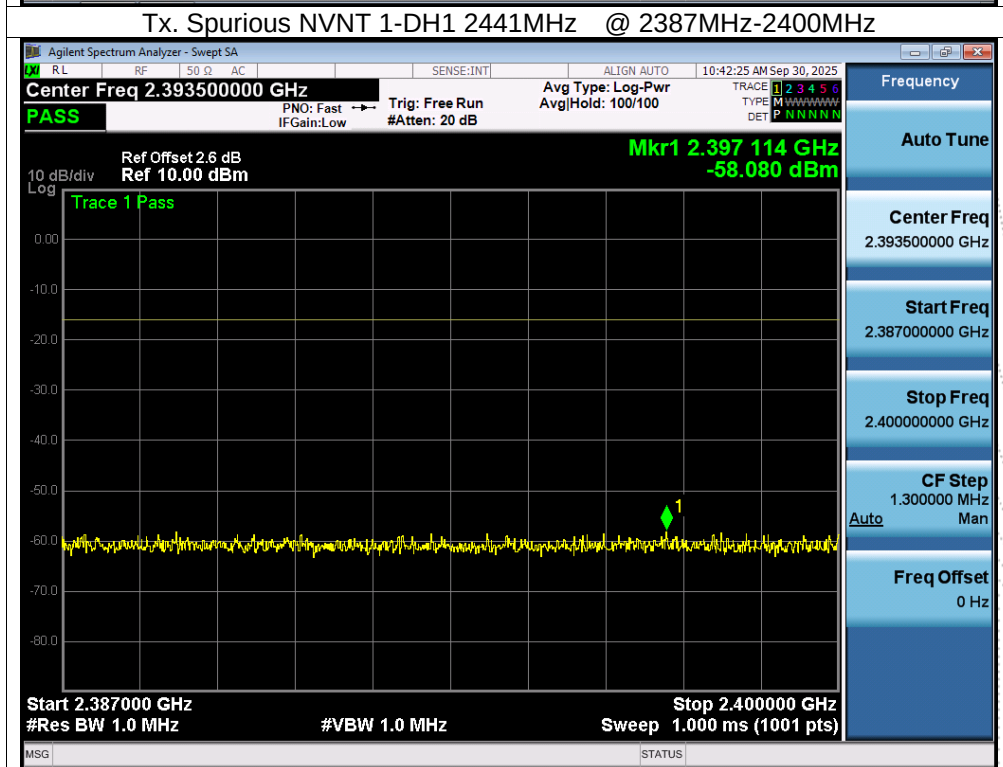
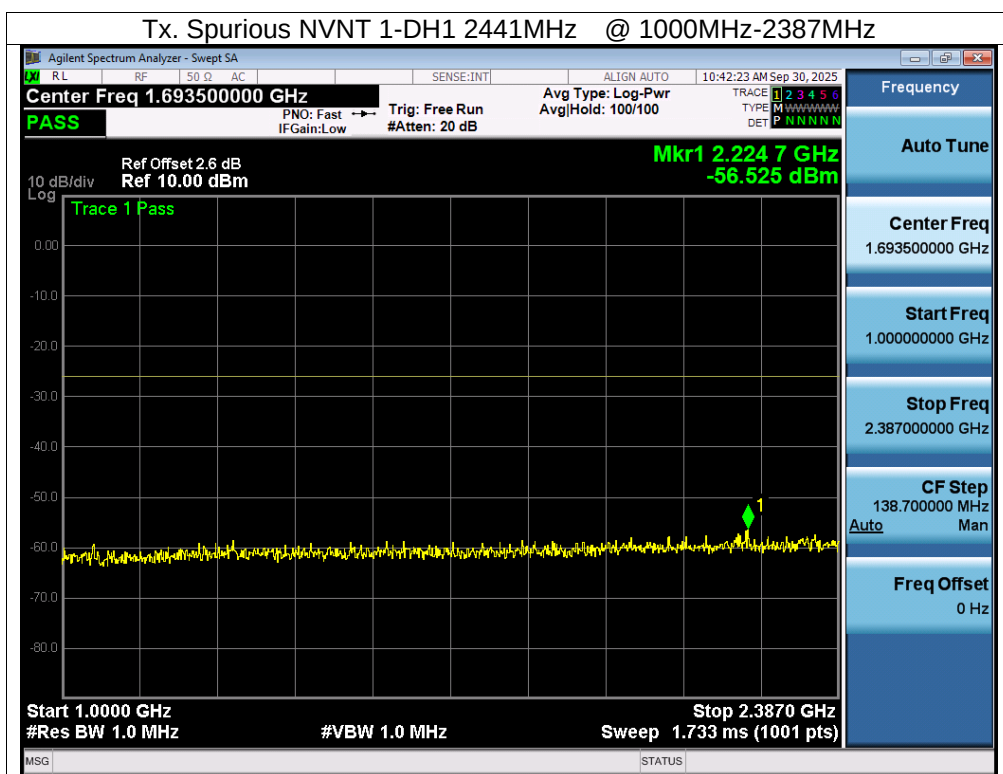
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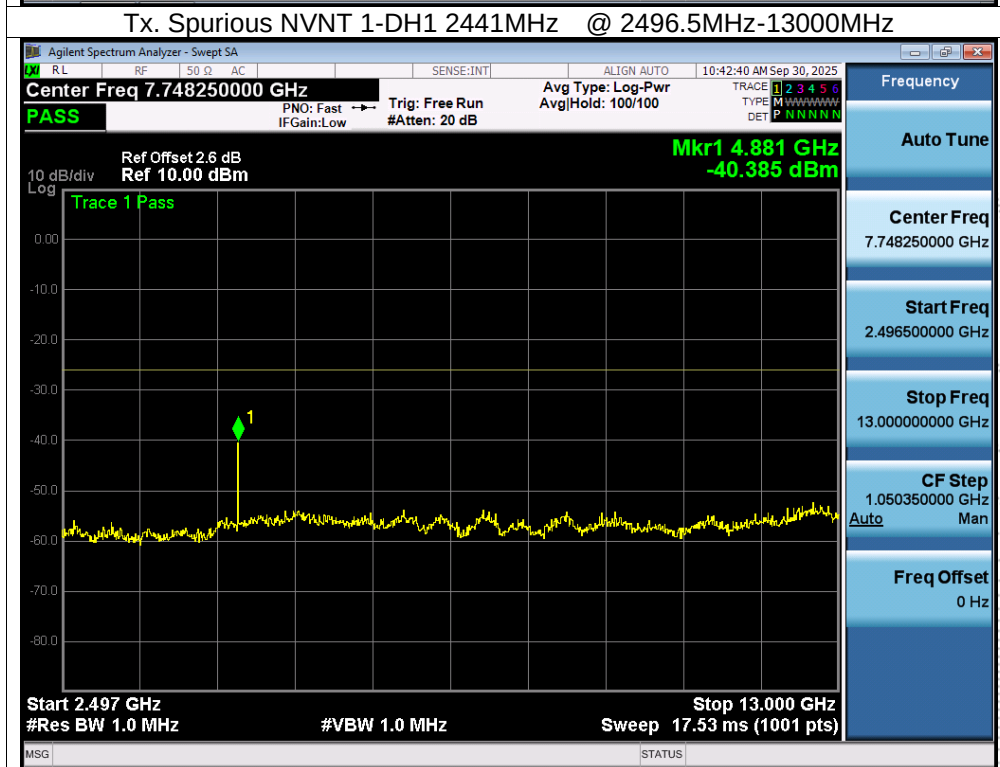
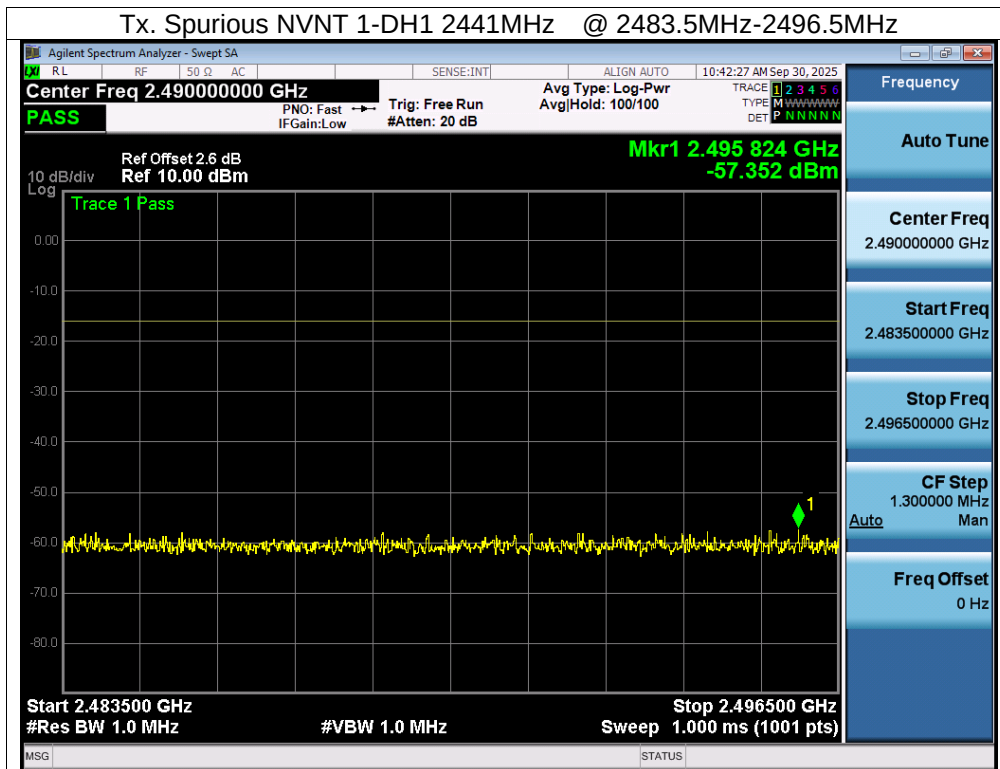


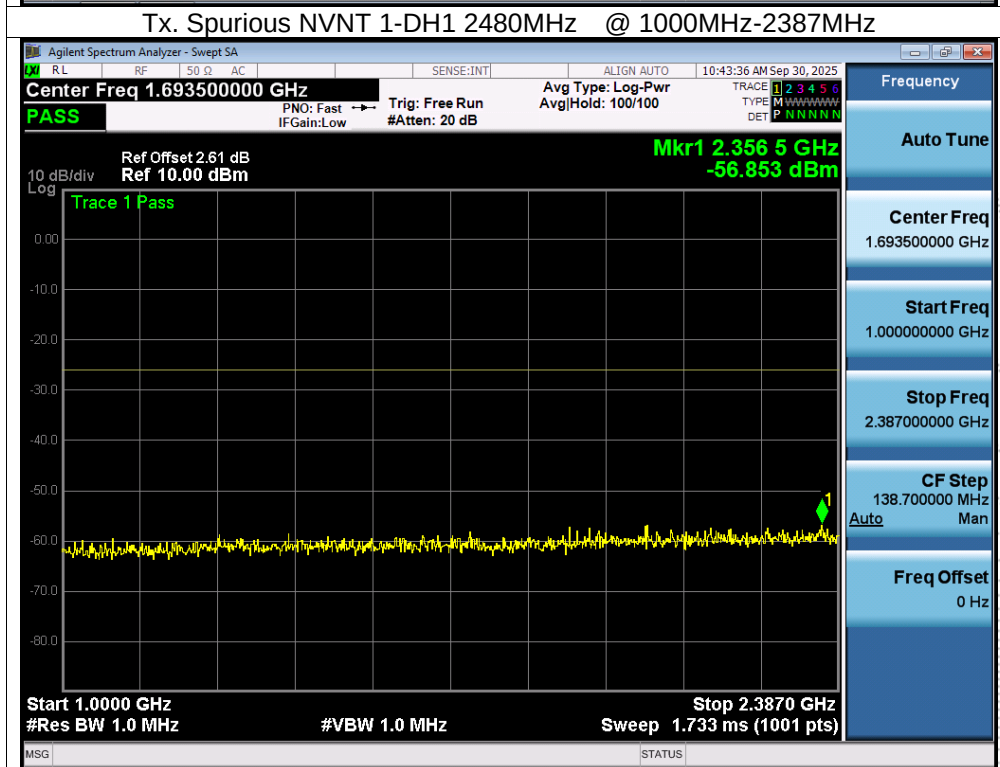
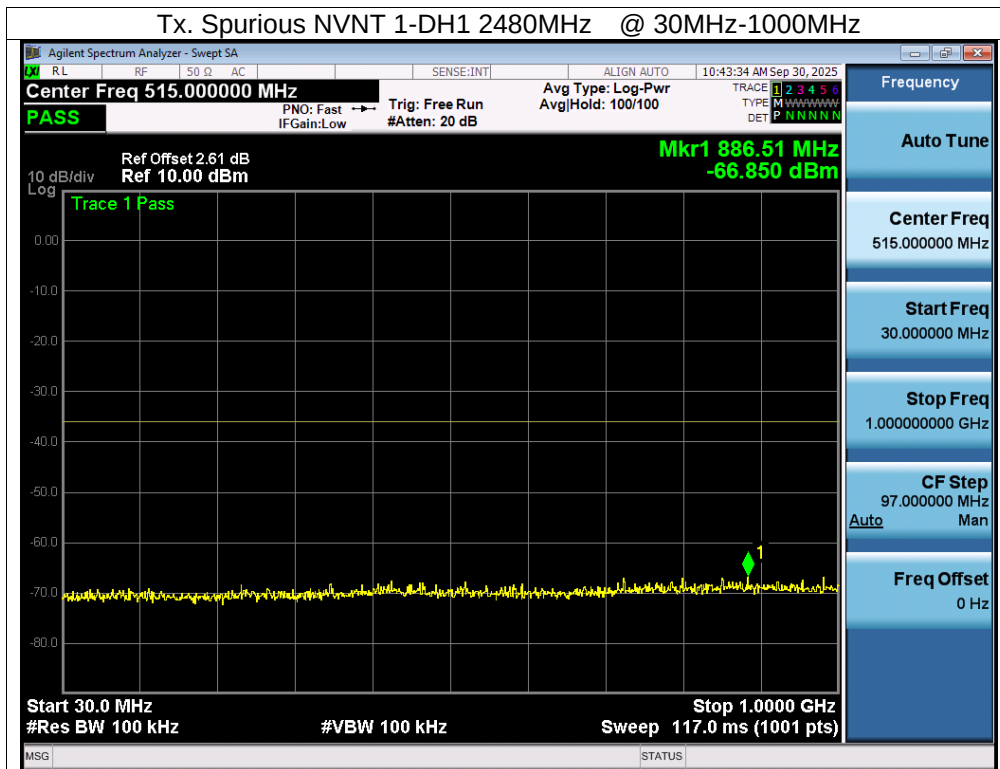


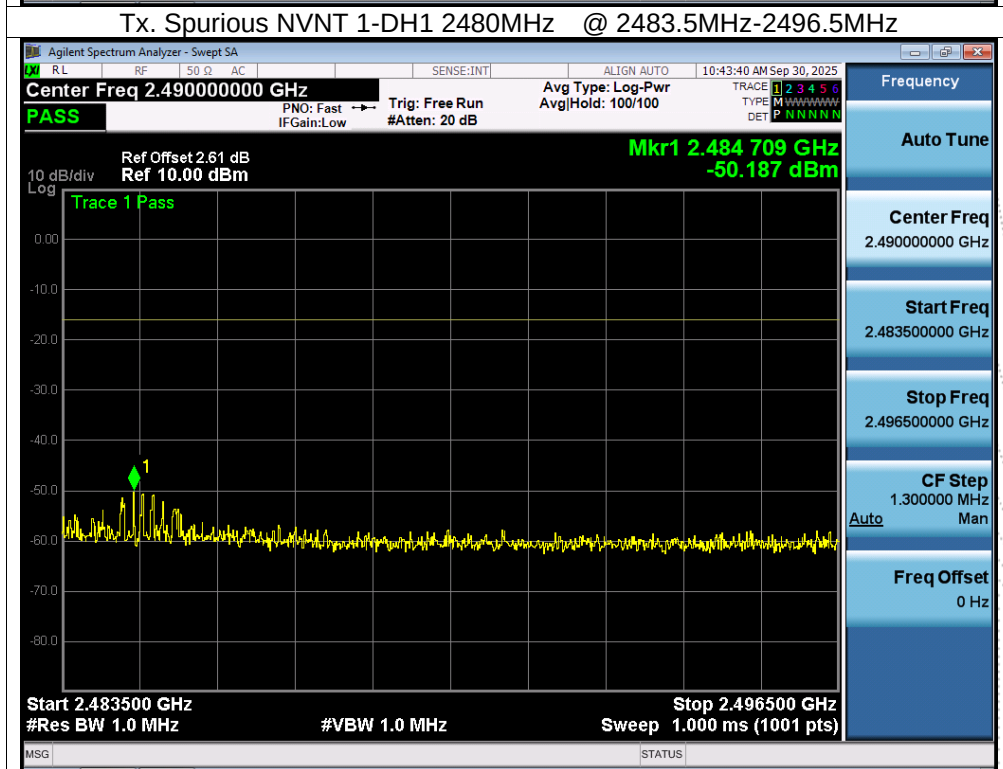
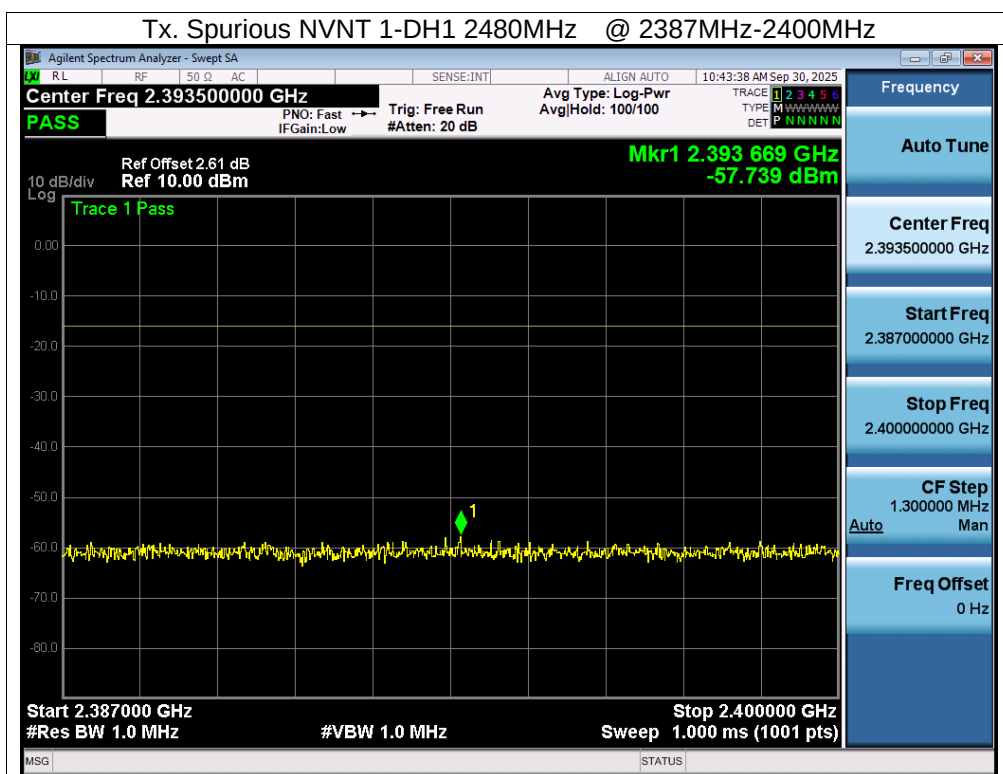


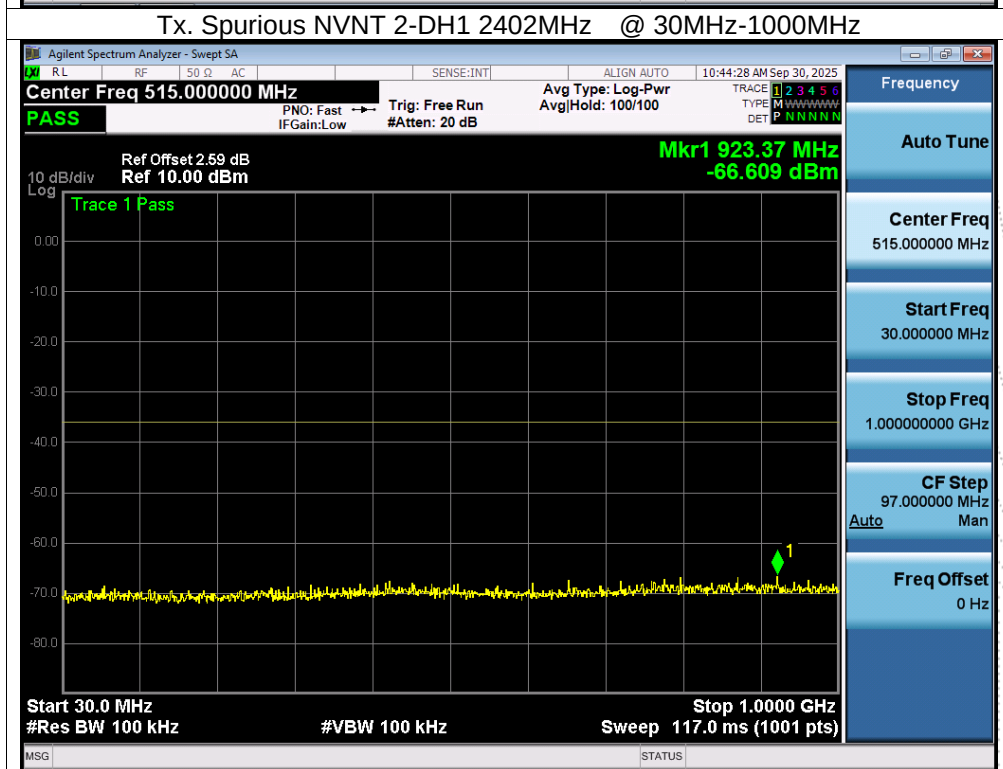
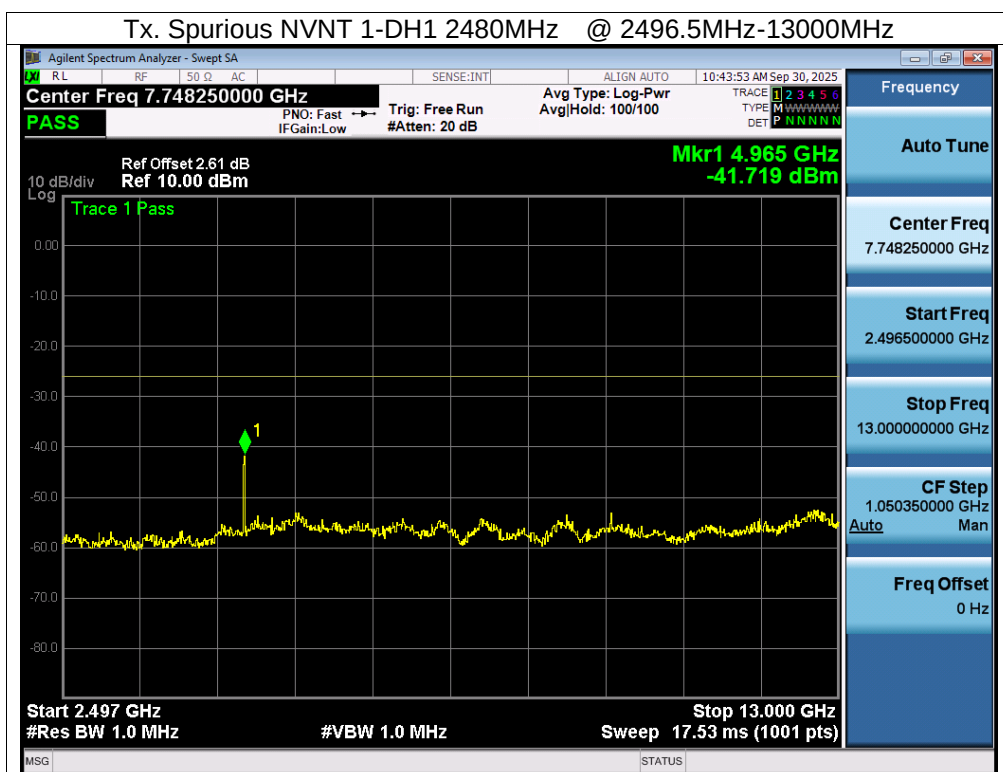


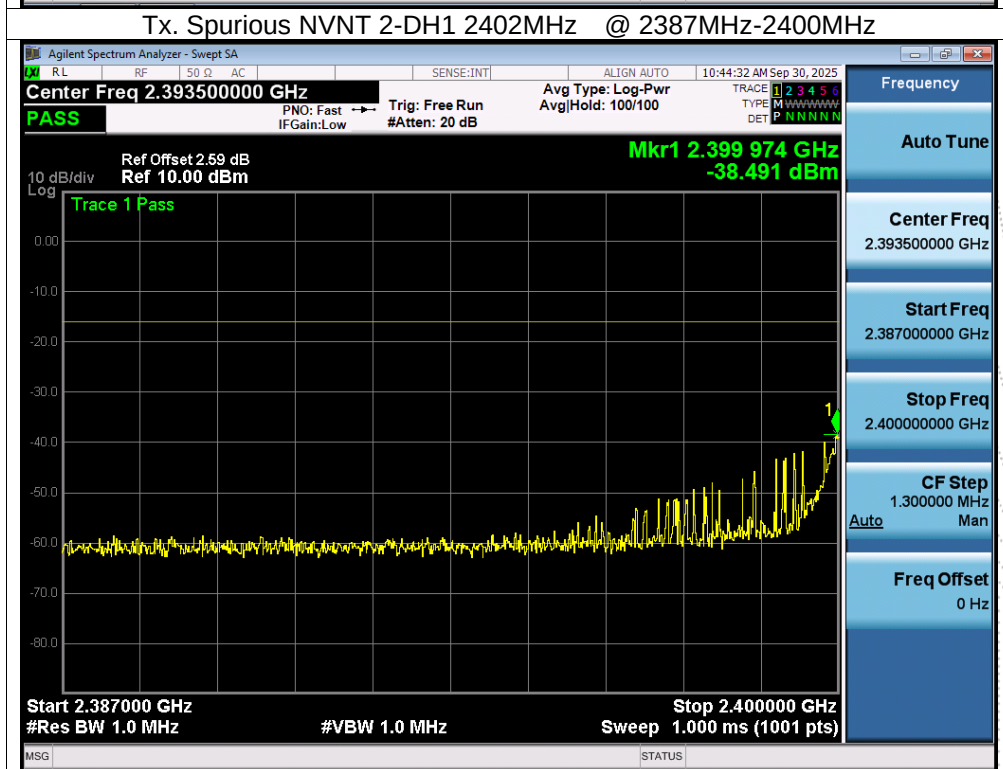
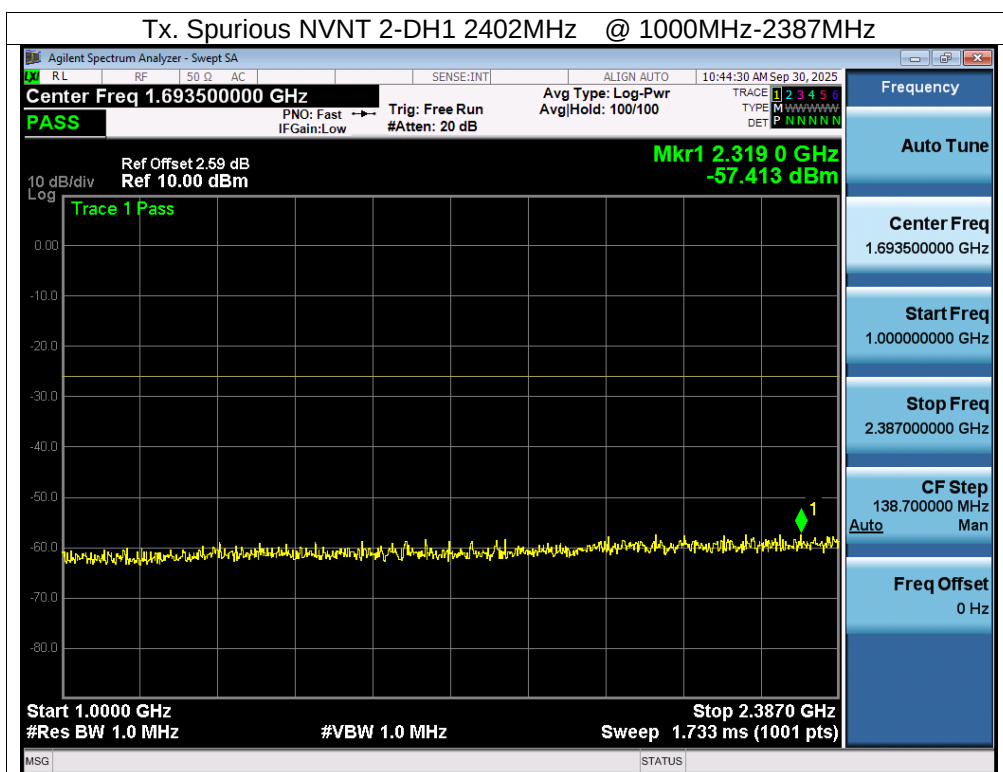


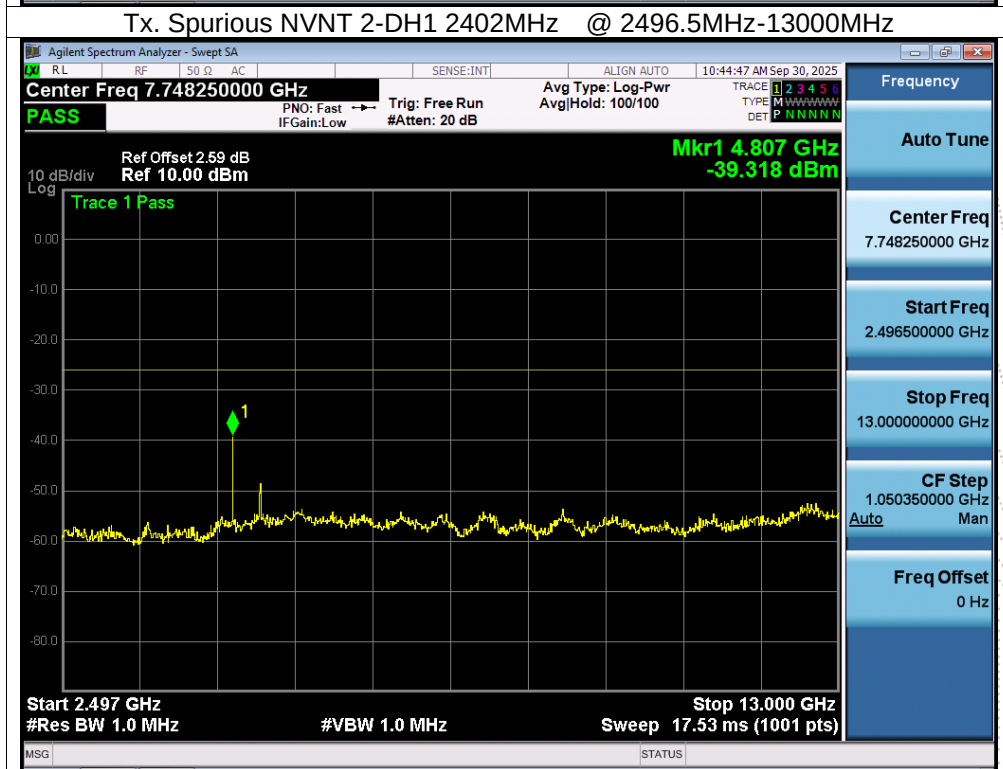
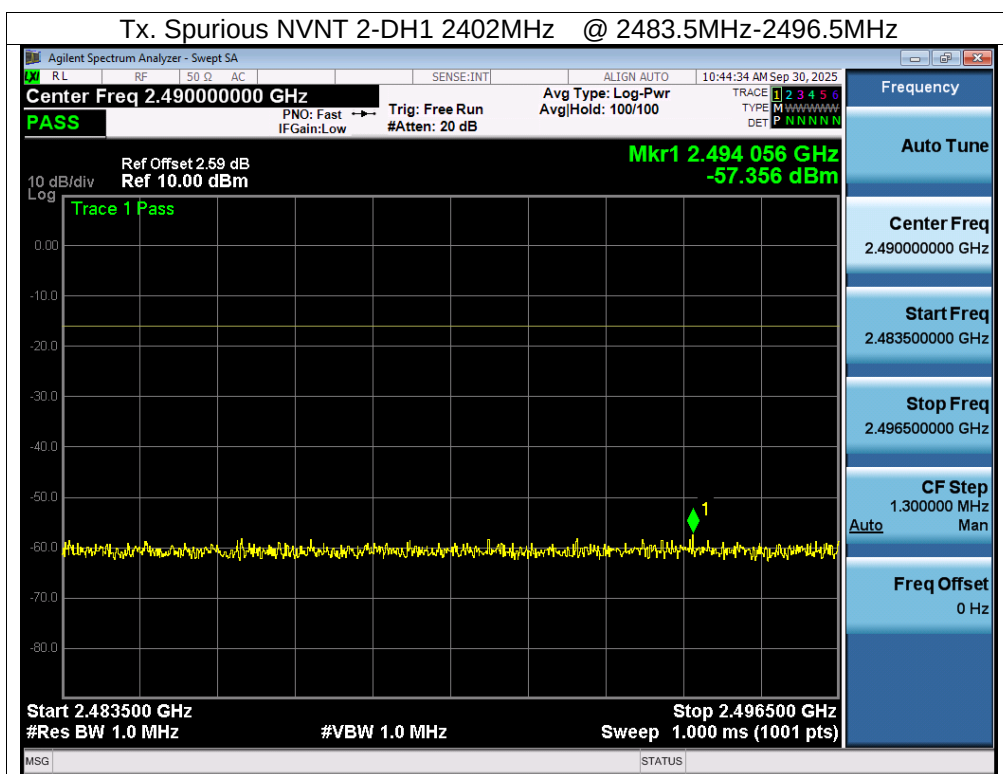


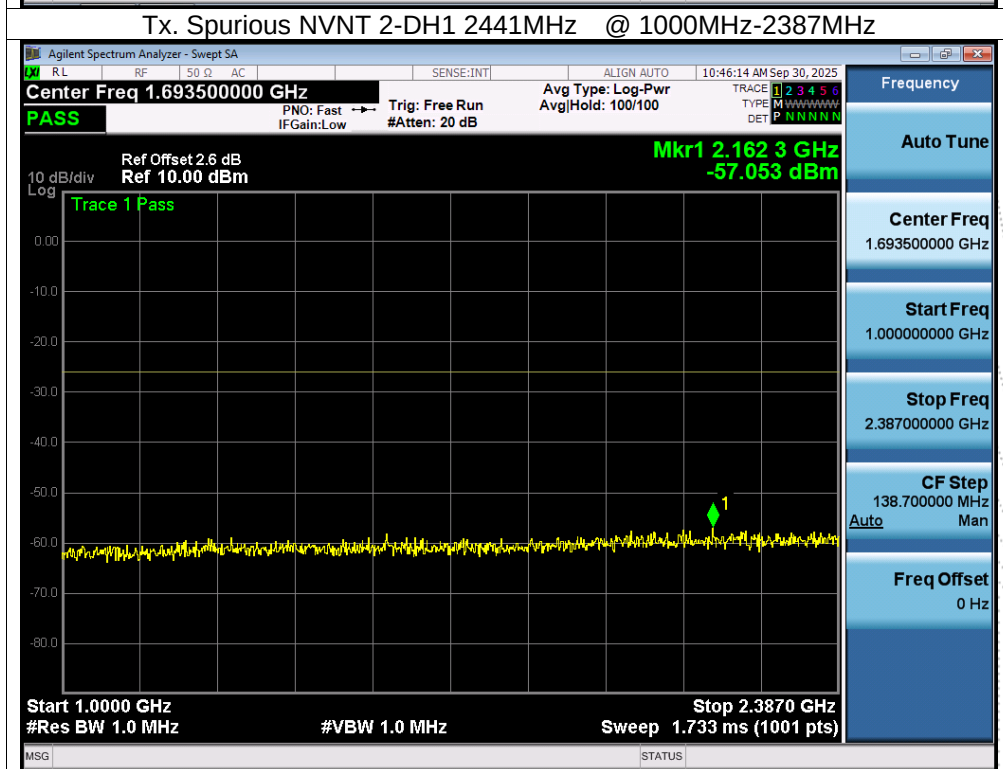
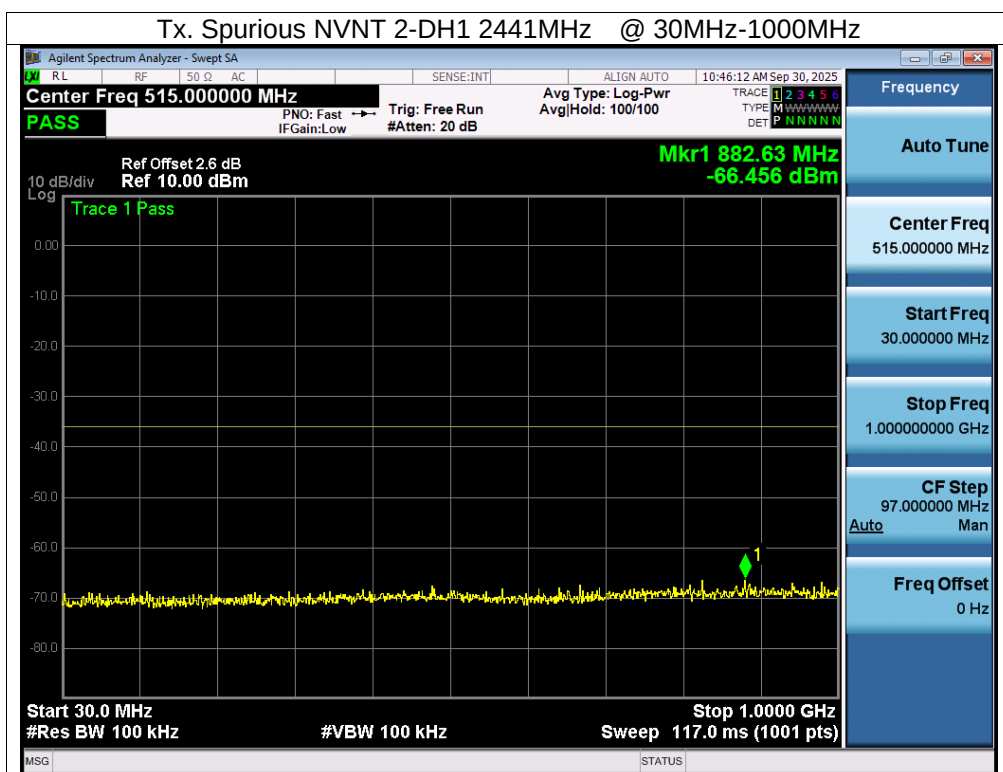


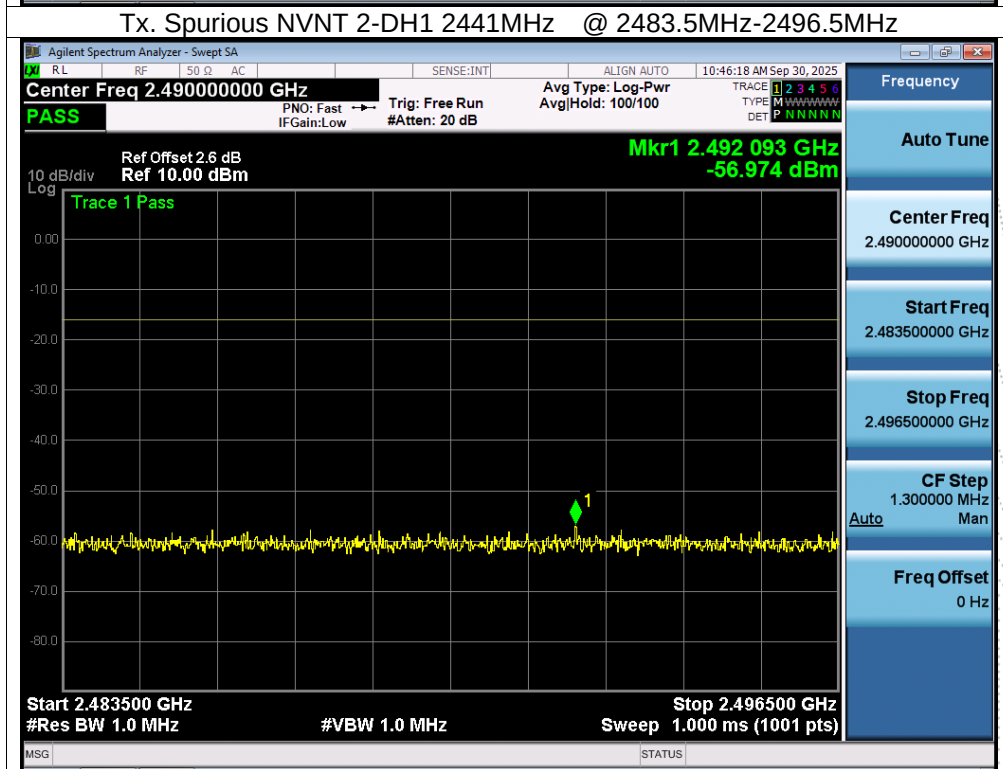
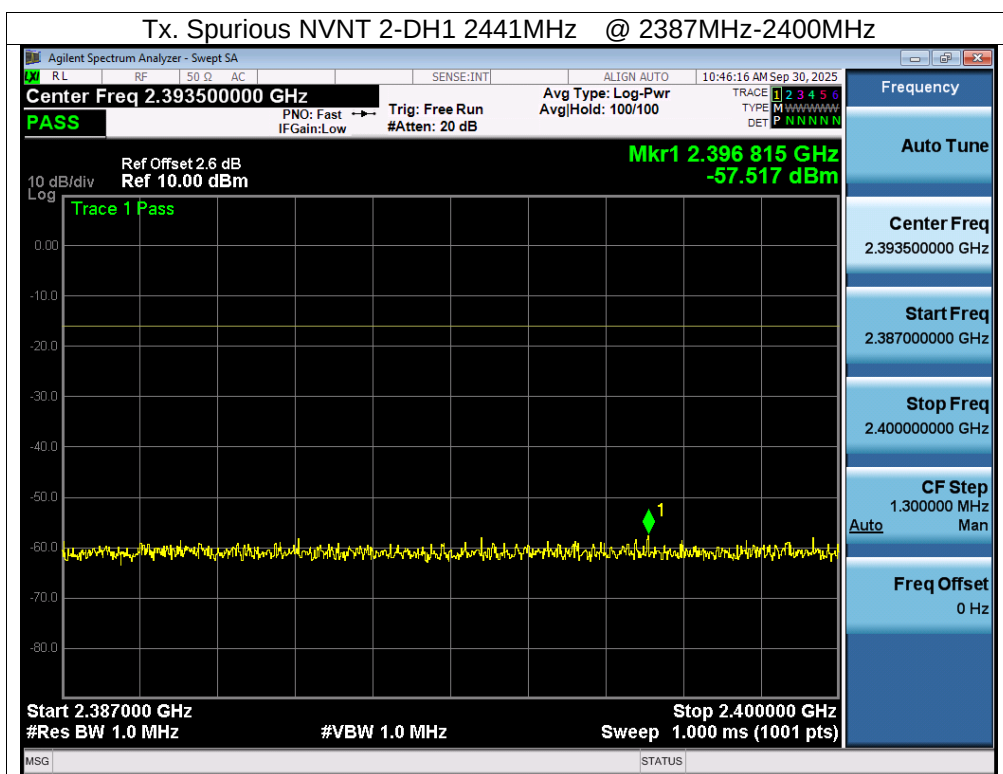




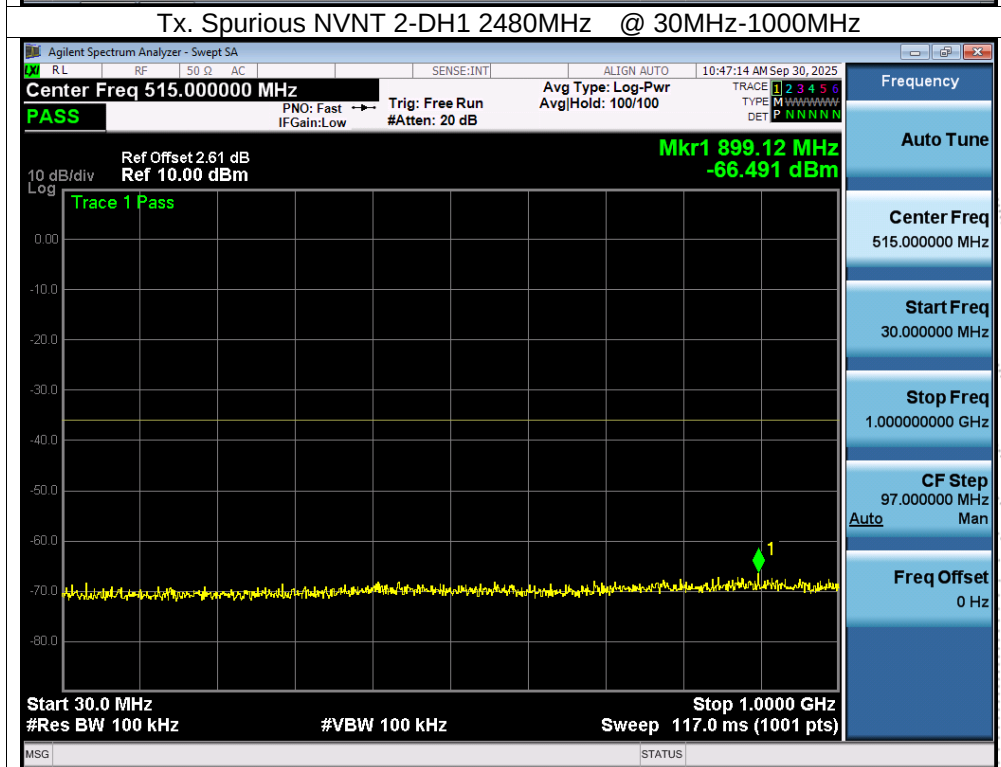
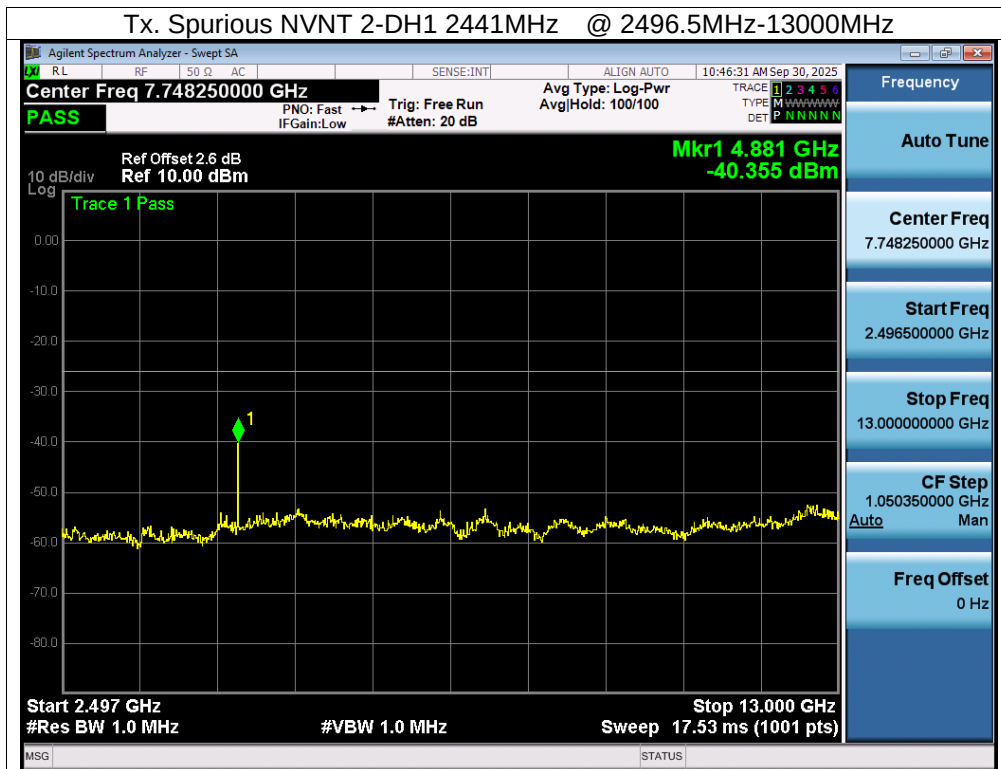


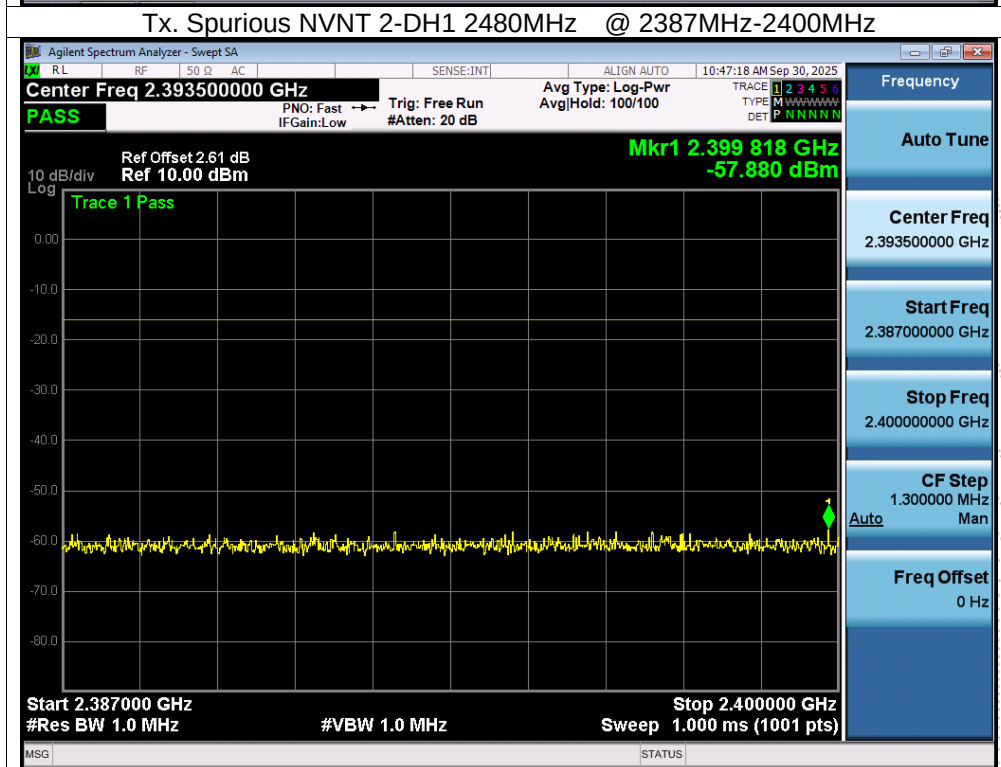
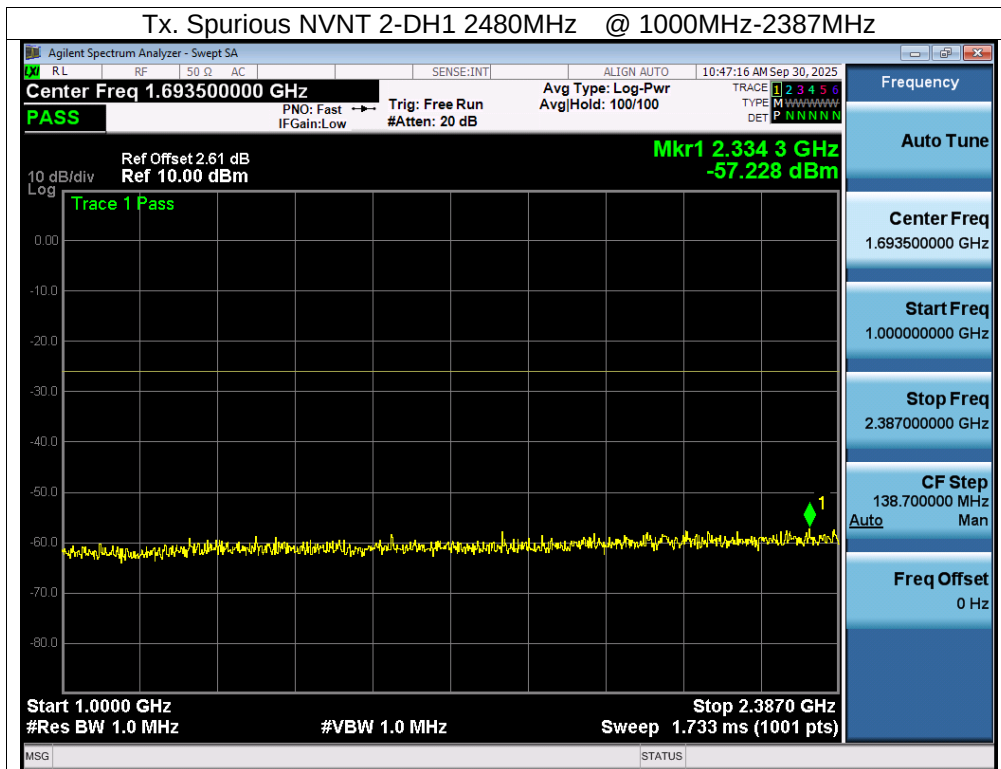


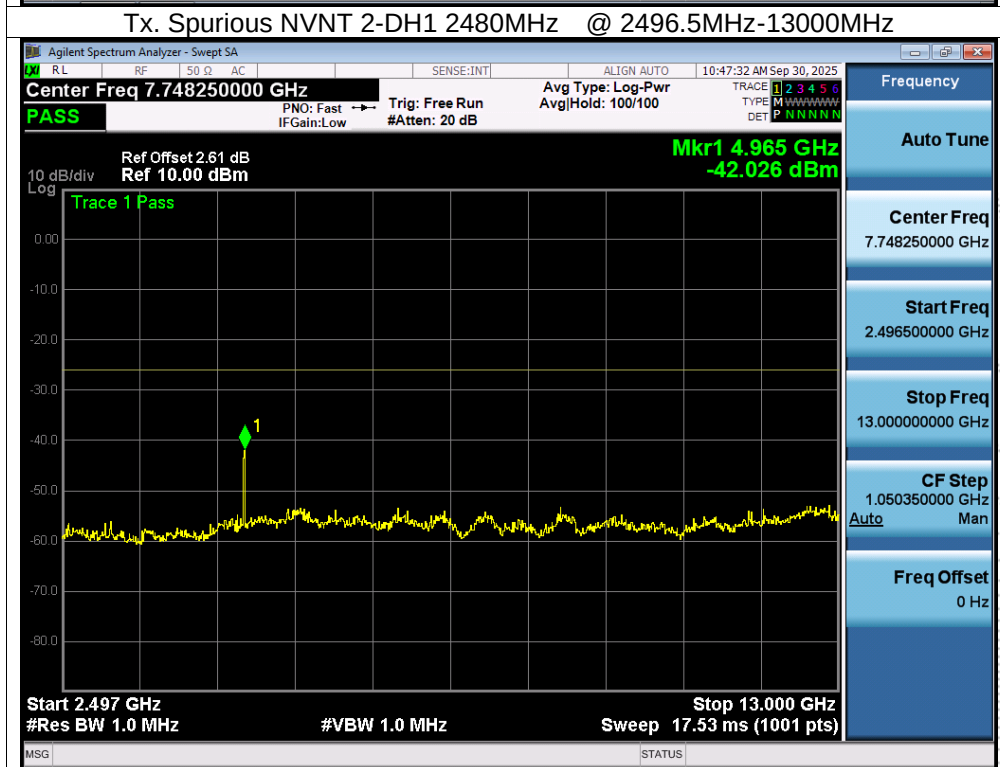
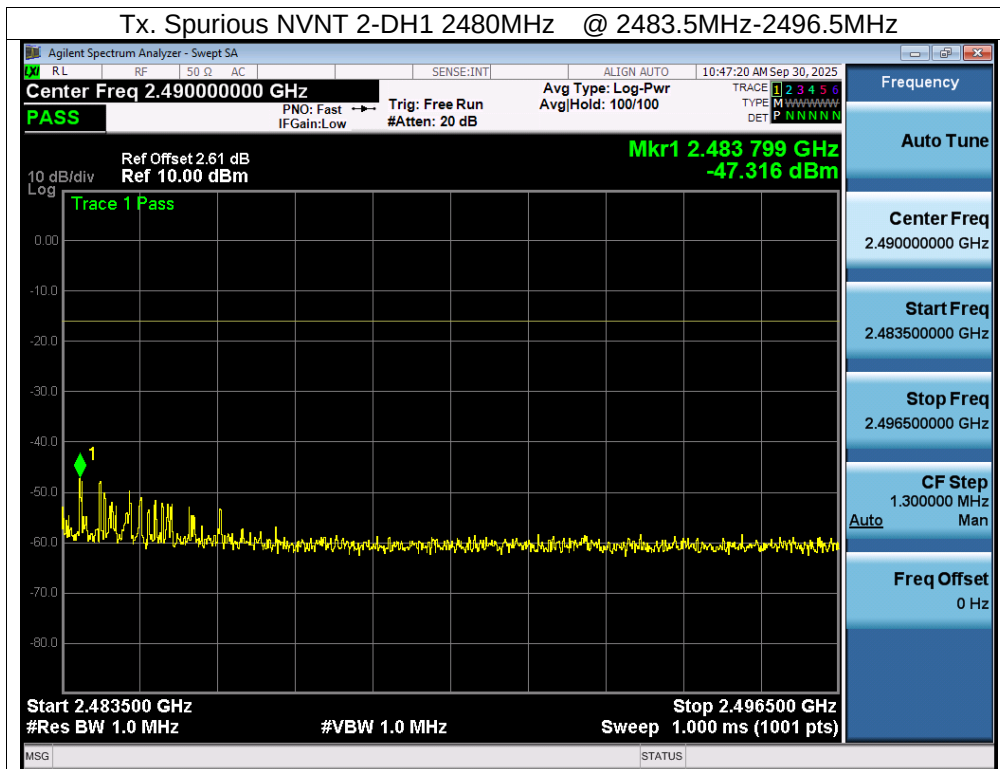


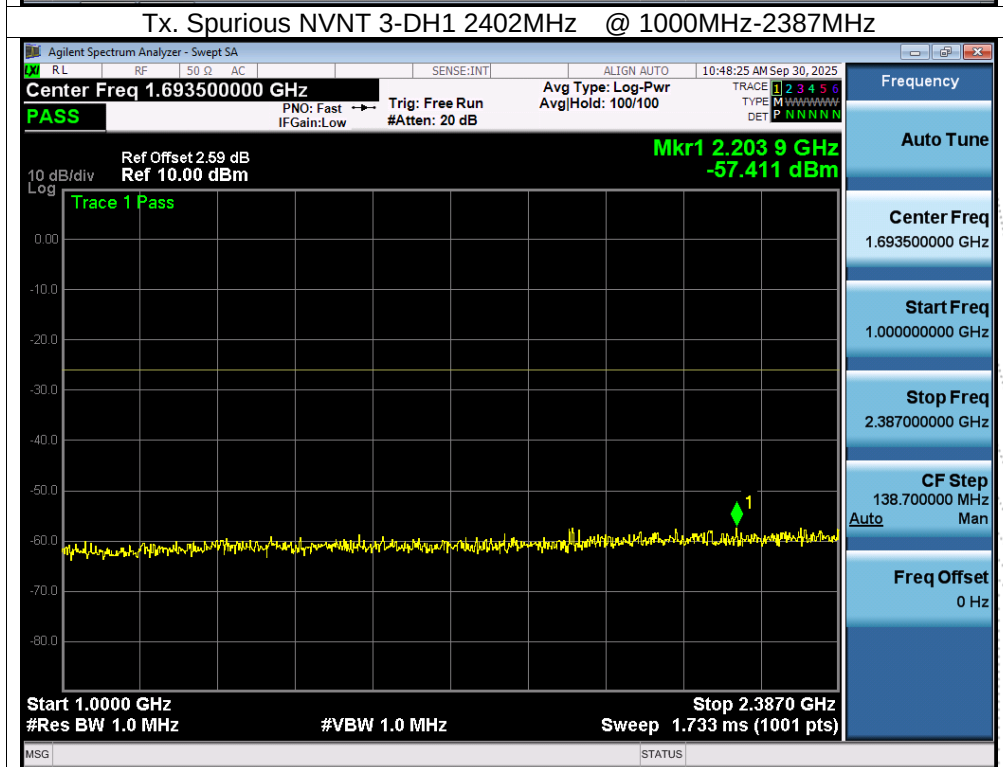
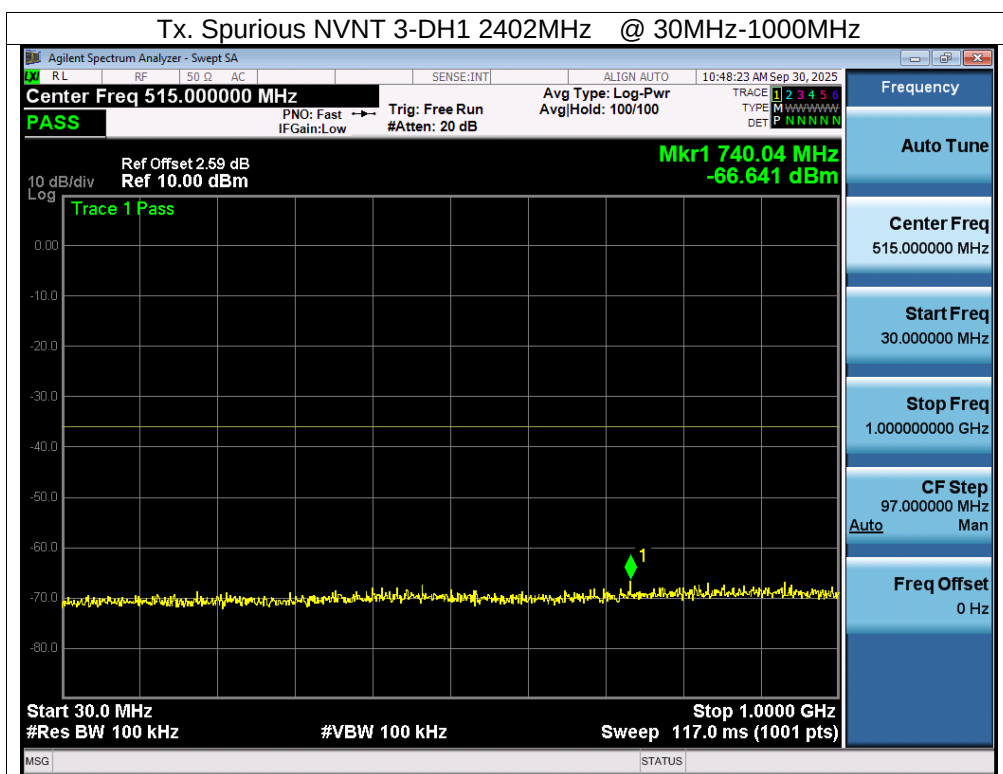


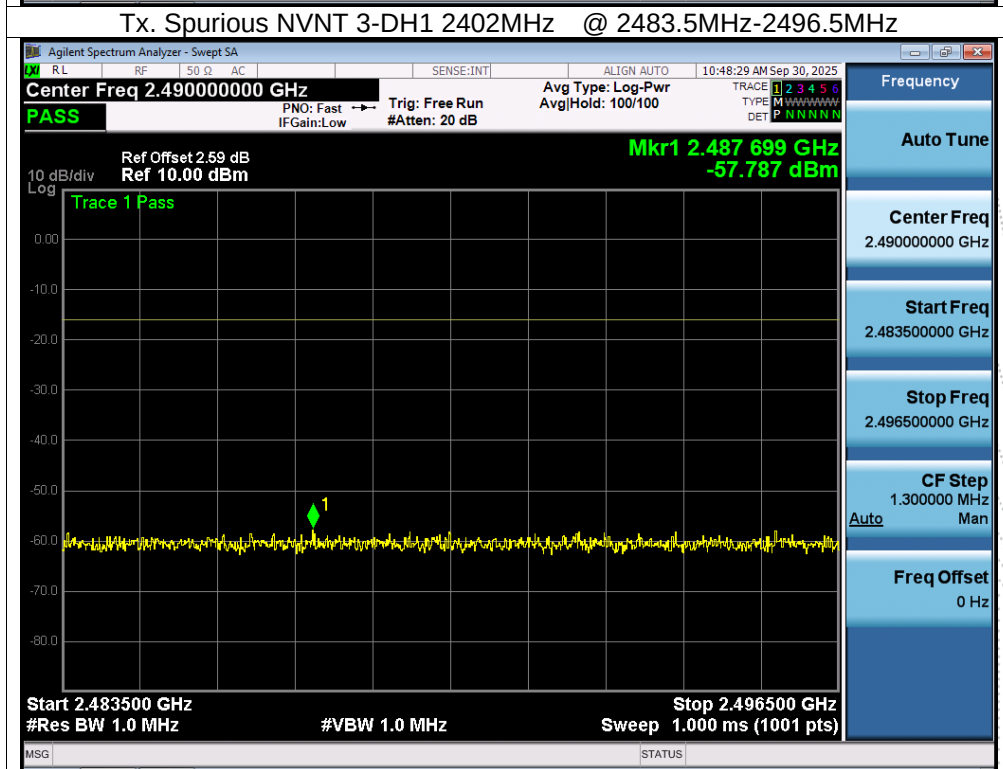
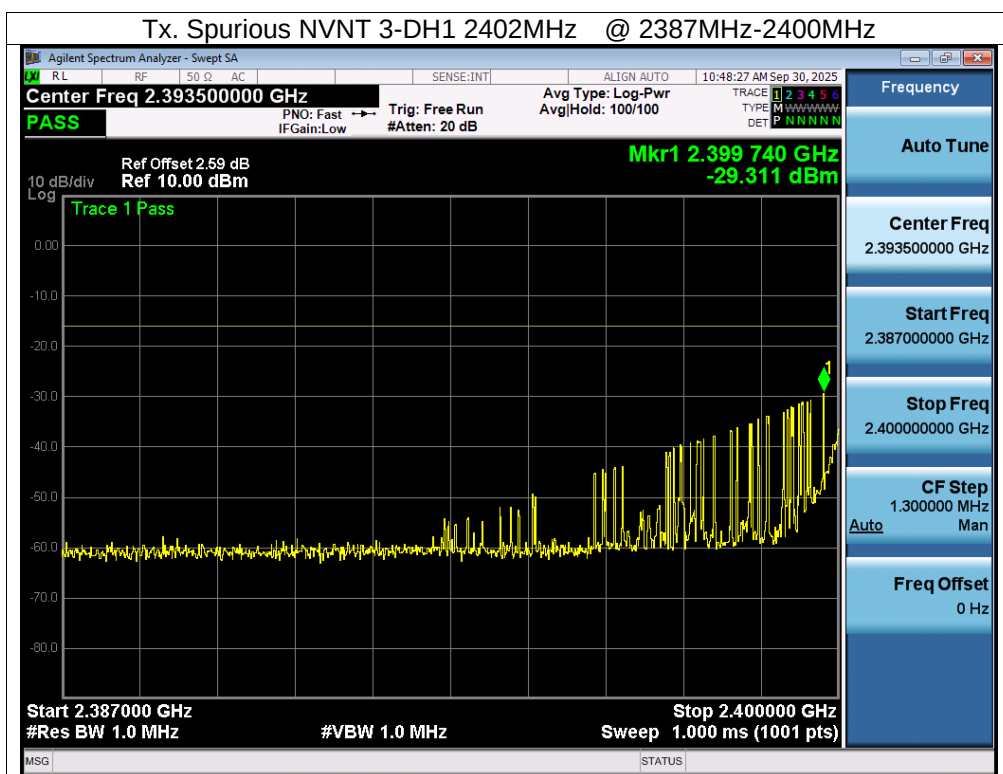
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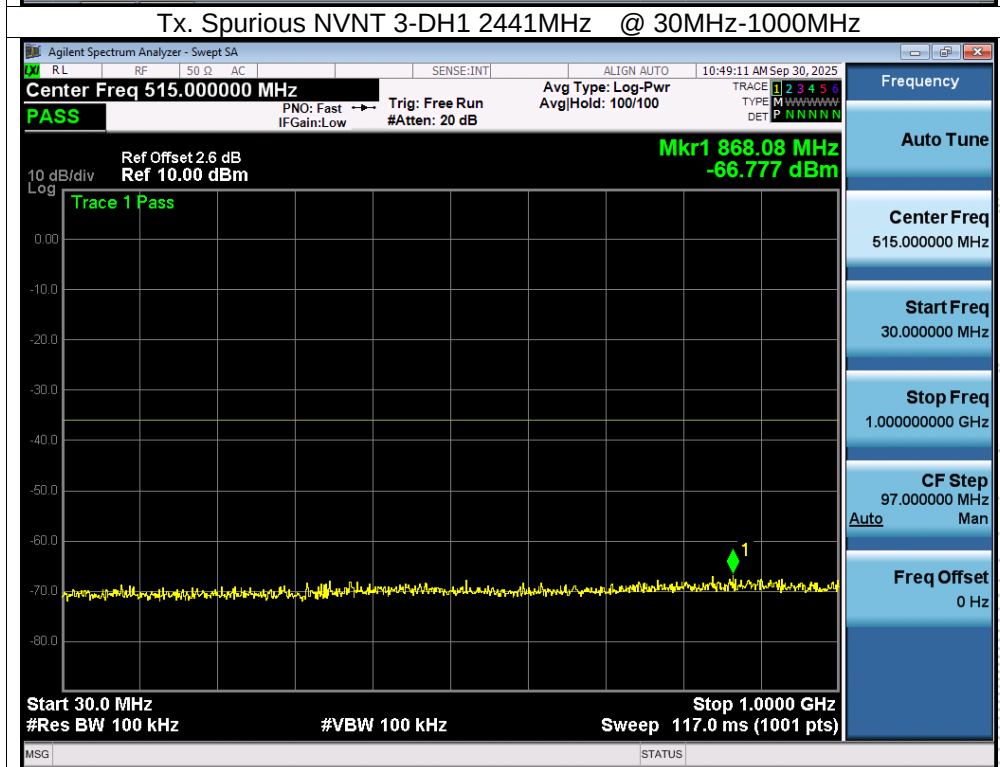
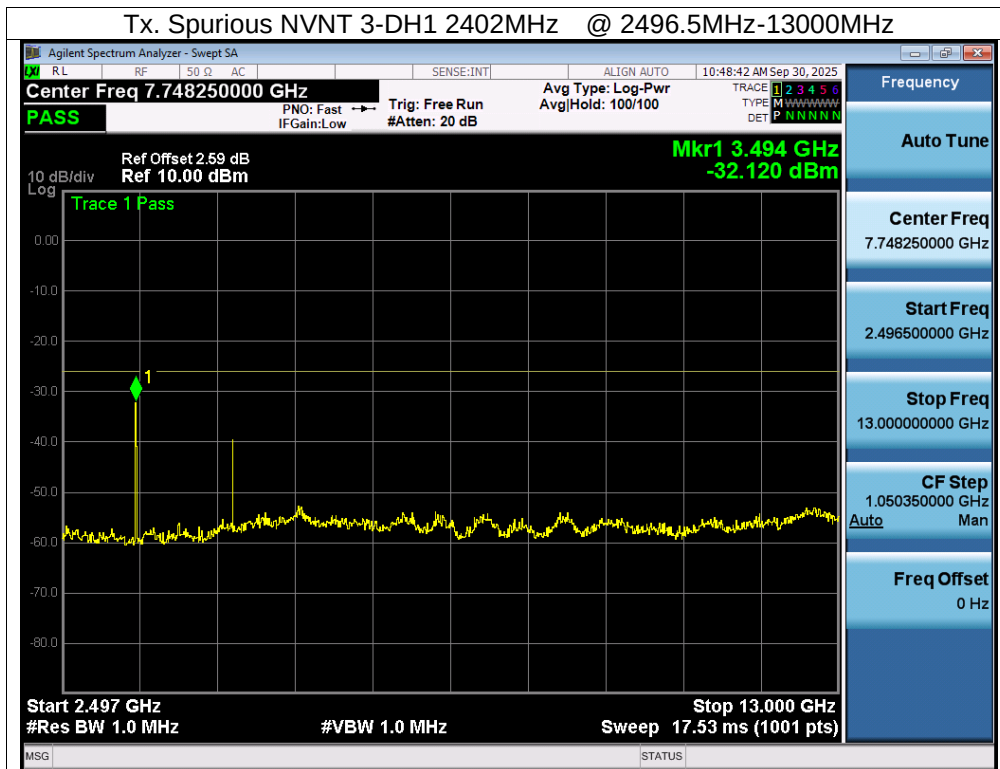


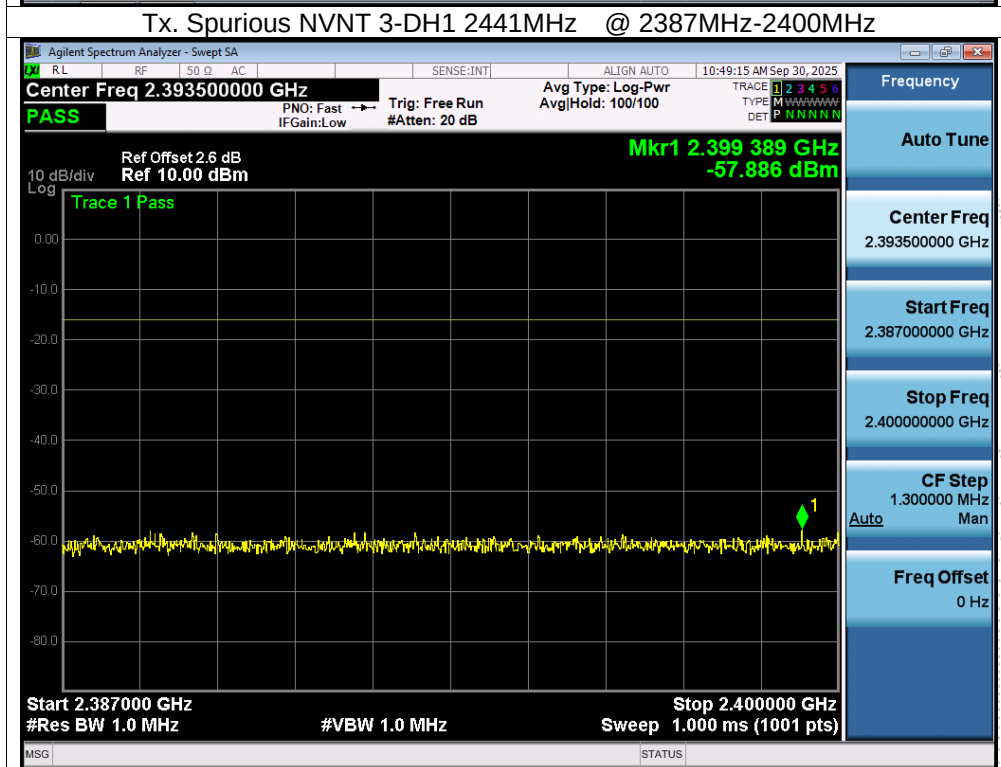
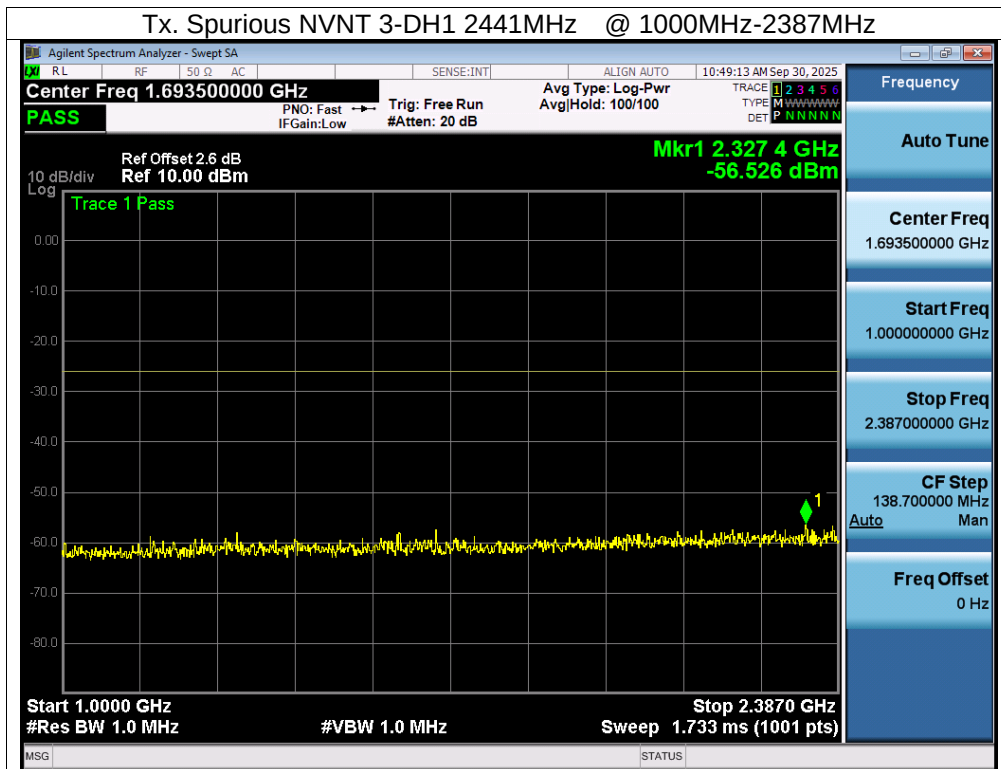


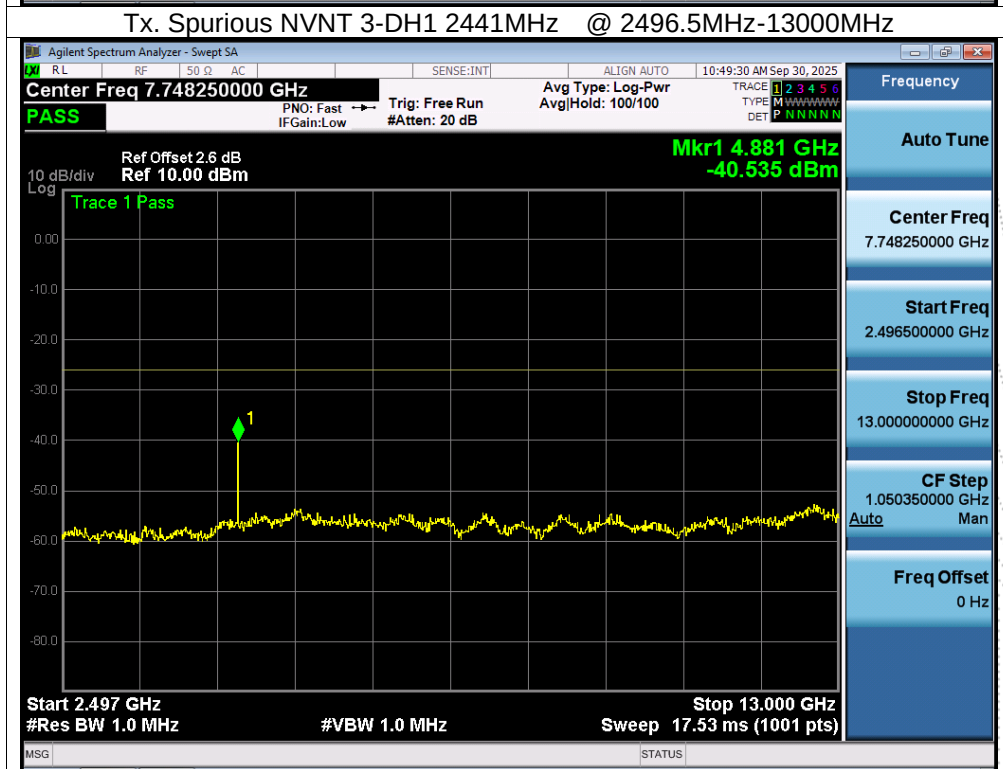
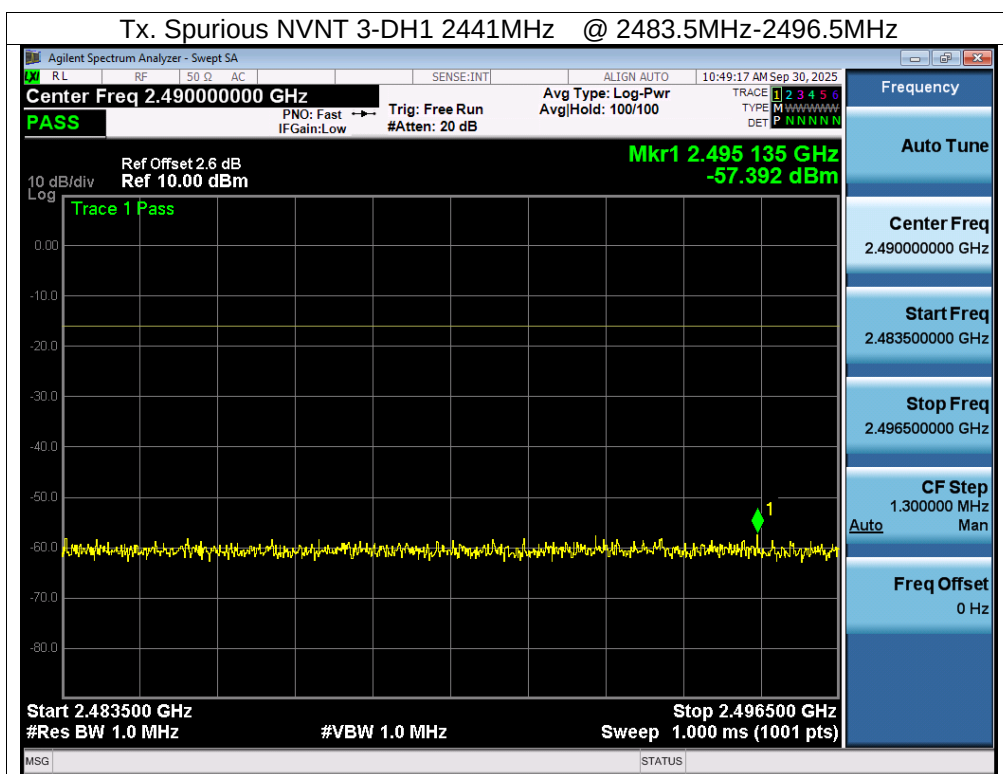


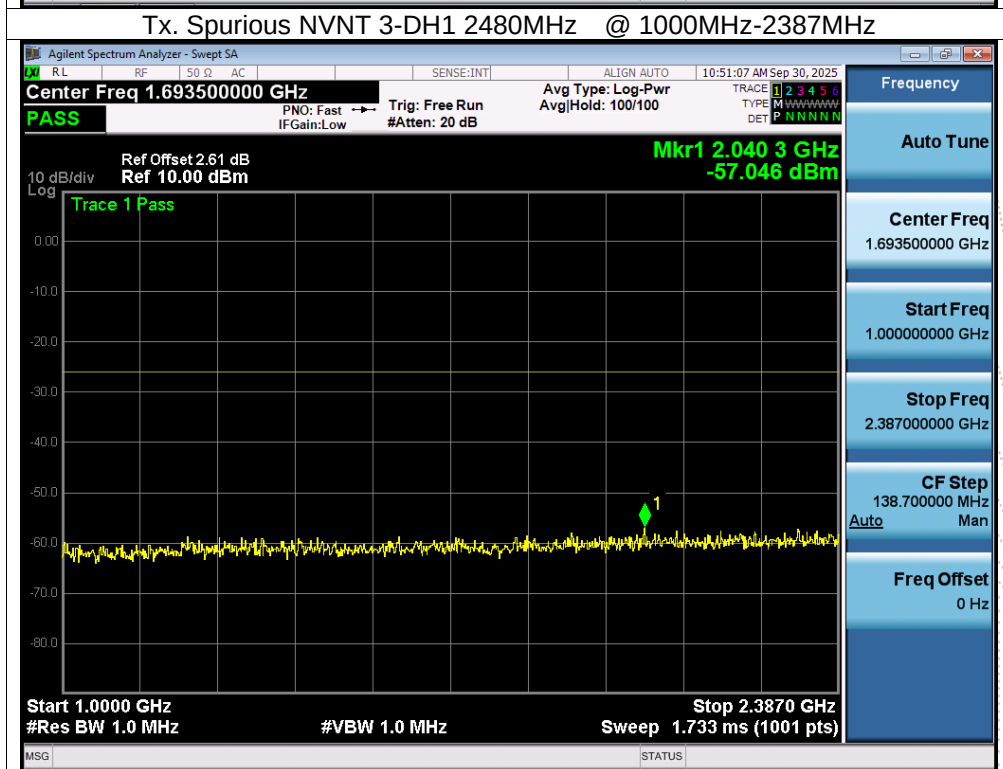
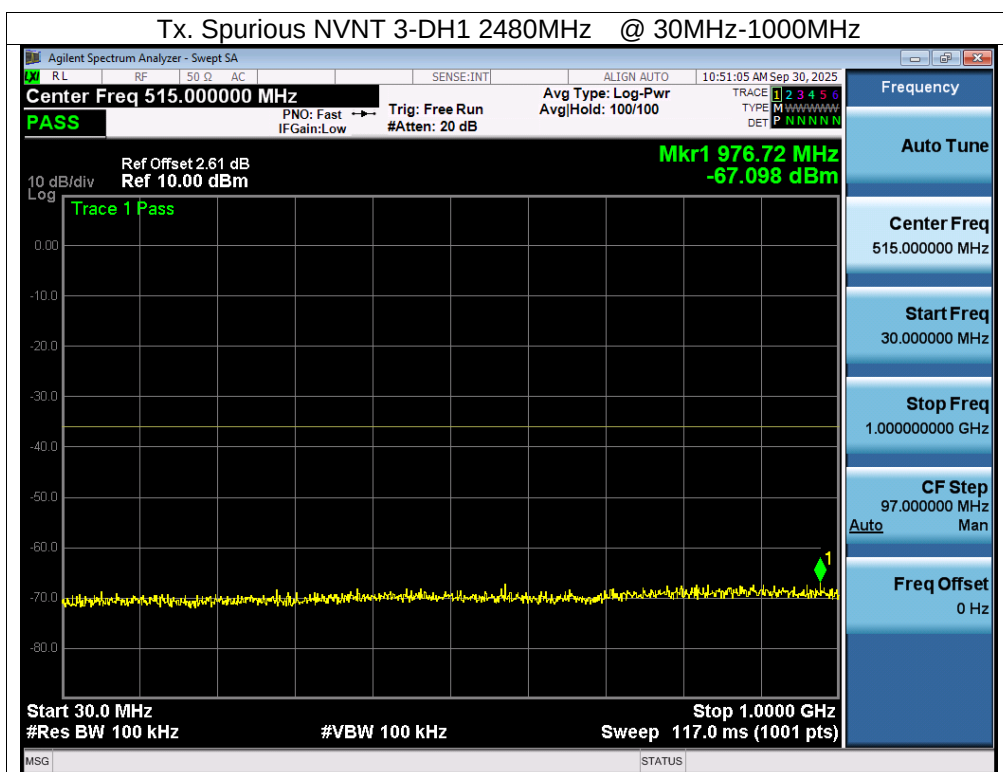


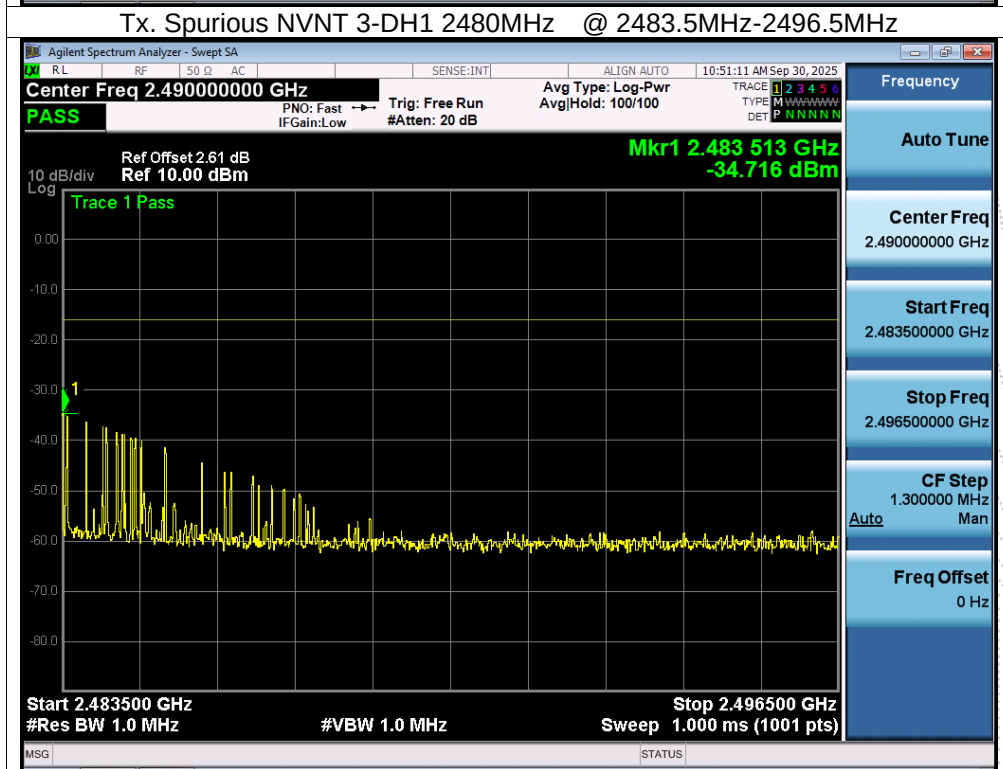
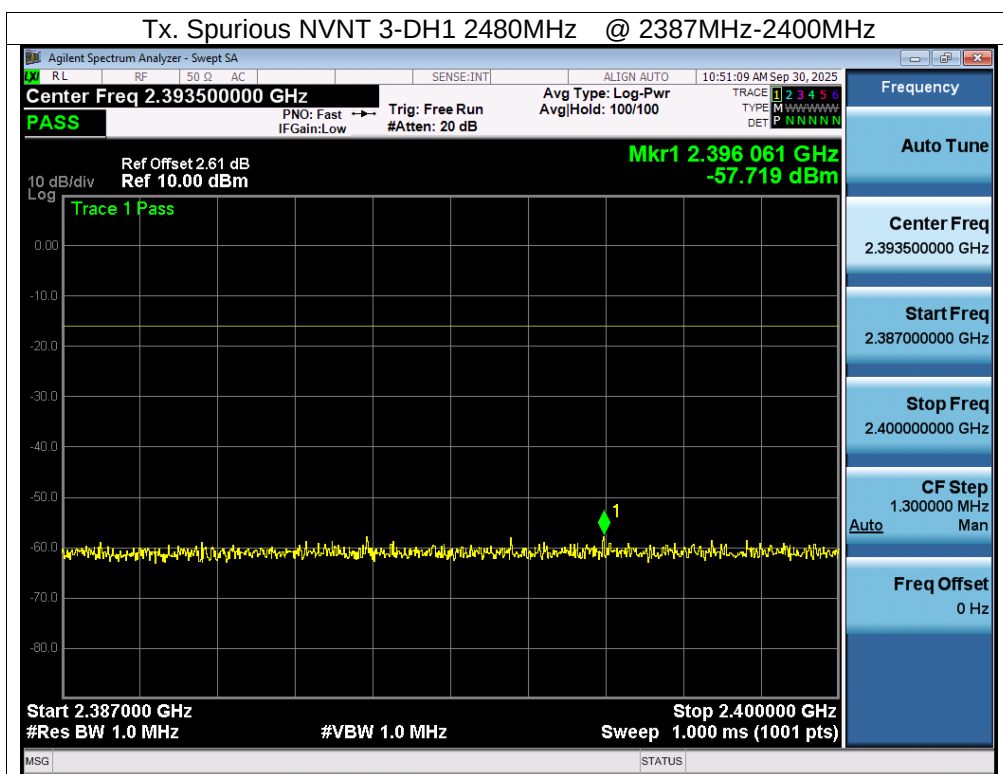


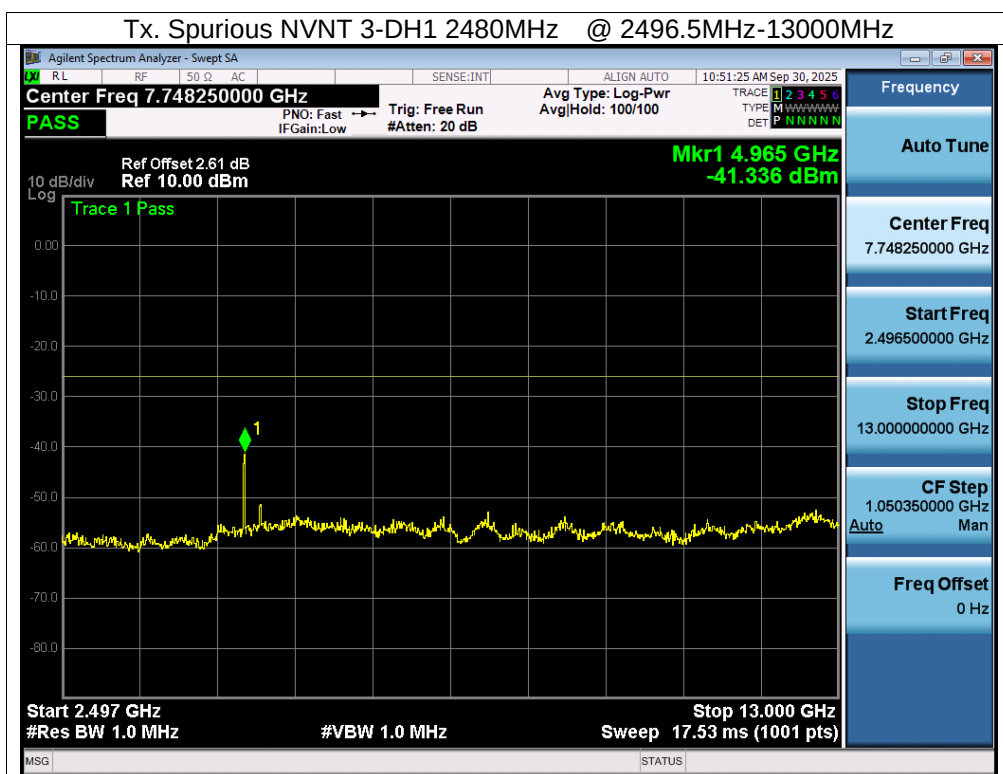






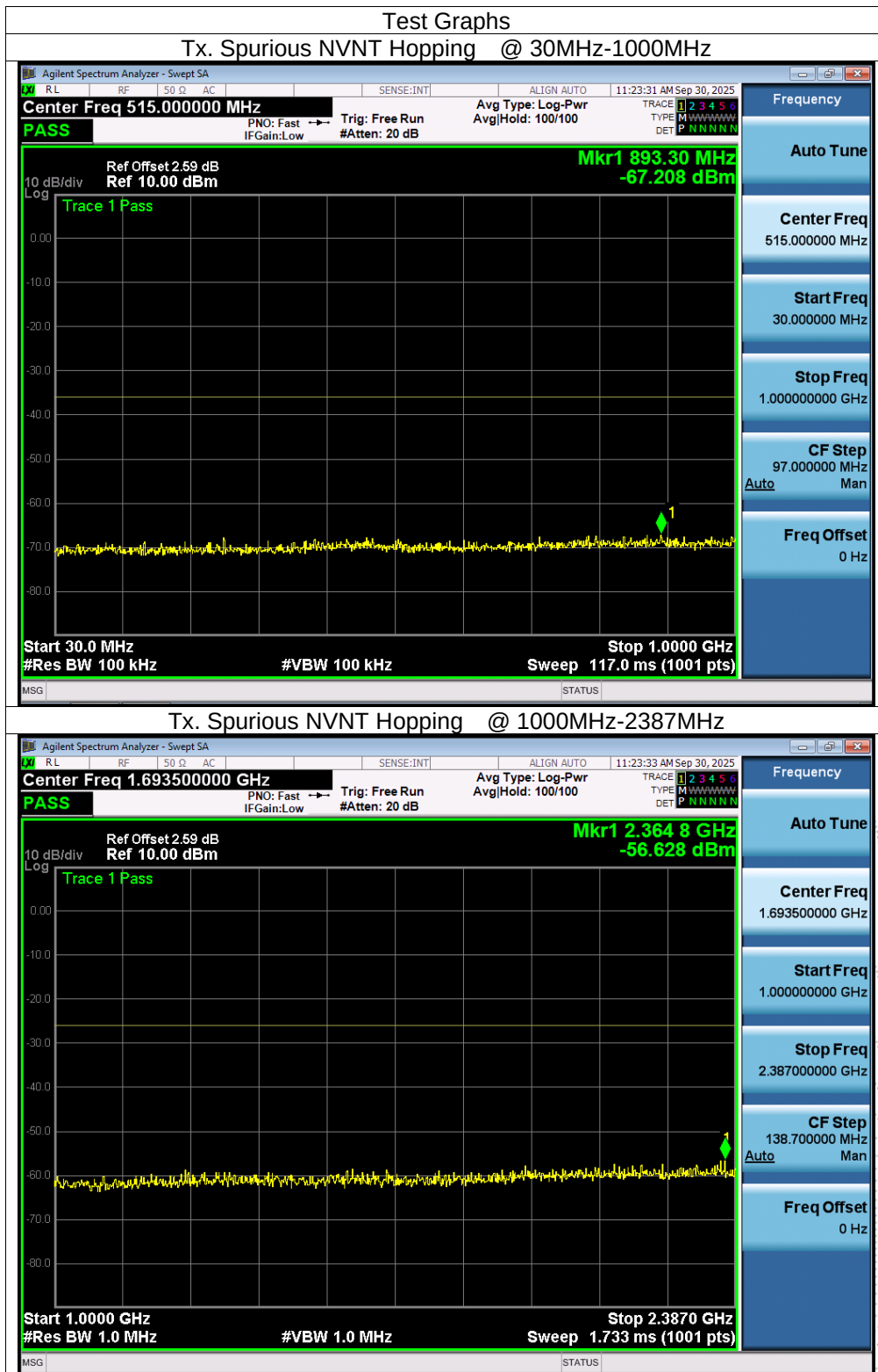


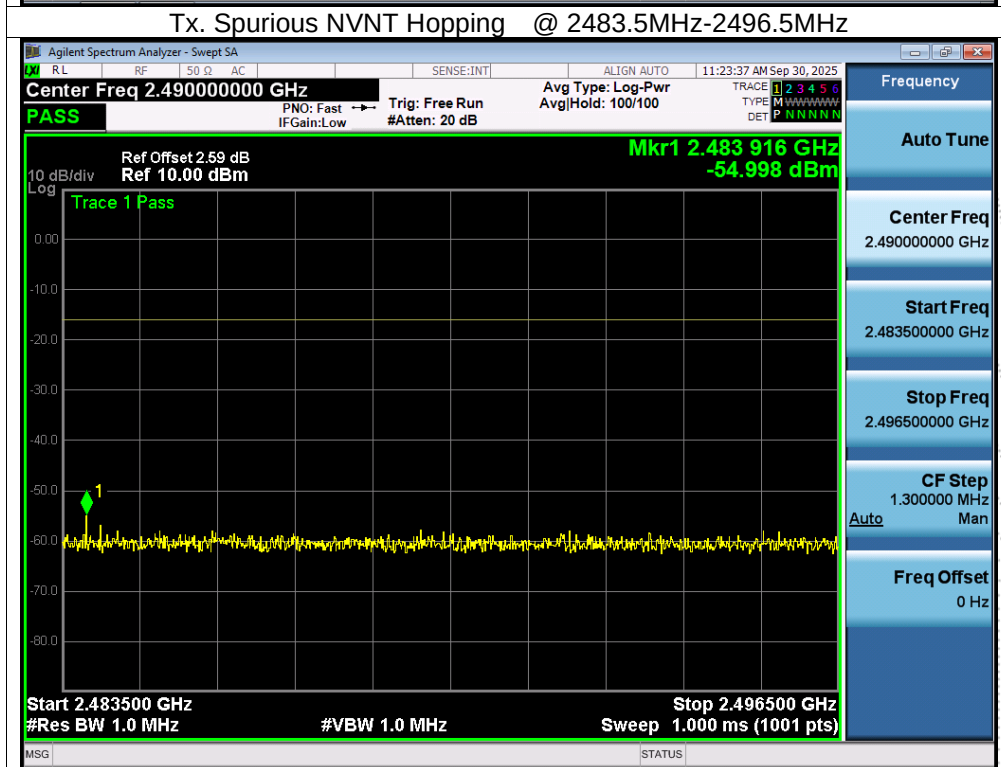
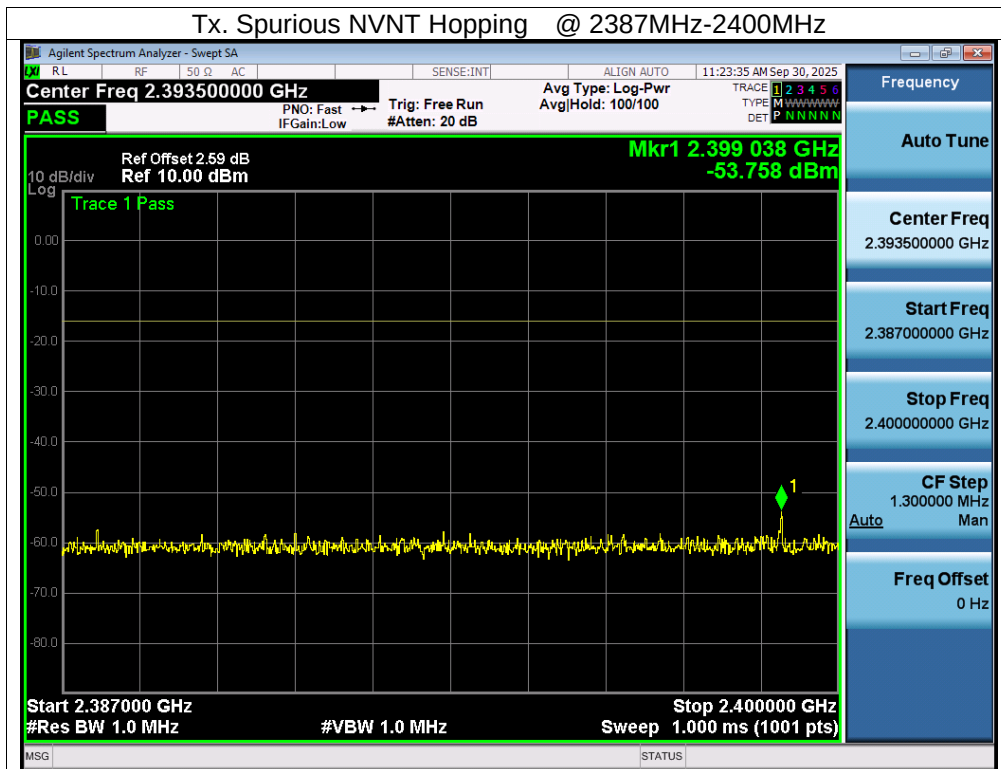


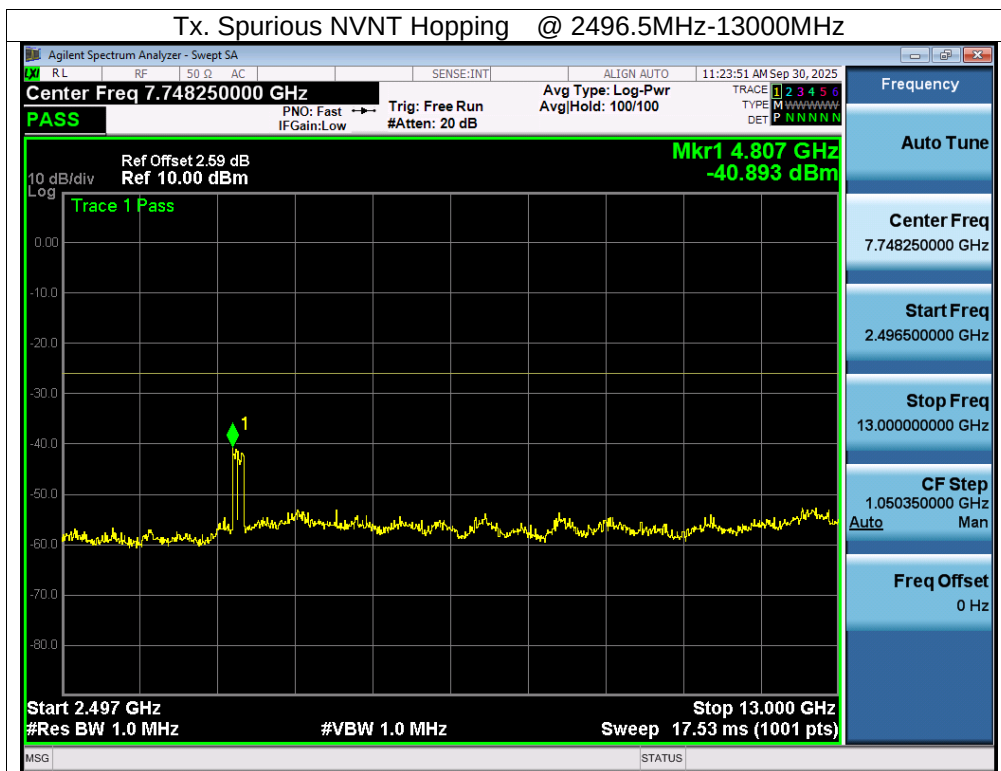


Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V
Test Mode:	Hopping		

Condi-tion	Mode	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	Hopping	30-1000	893.3	-67.21	-36	-36	Pass
NVNT	Hopping	1000-2387	2364.81	-56.63	-26	-26	Pass
NVNT	Hopping	2387-2400	2399.04	-53.76	-16	-16	Pass
NVNT	Hopping	2483.5-2496.5	2483.92	-55	-16	-16	Pass
NVNT	Hopping	2496.5-13000	4807.27	-40.89	-26	-26	Pass







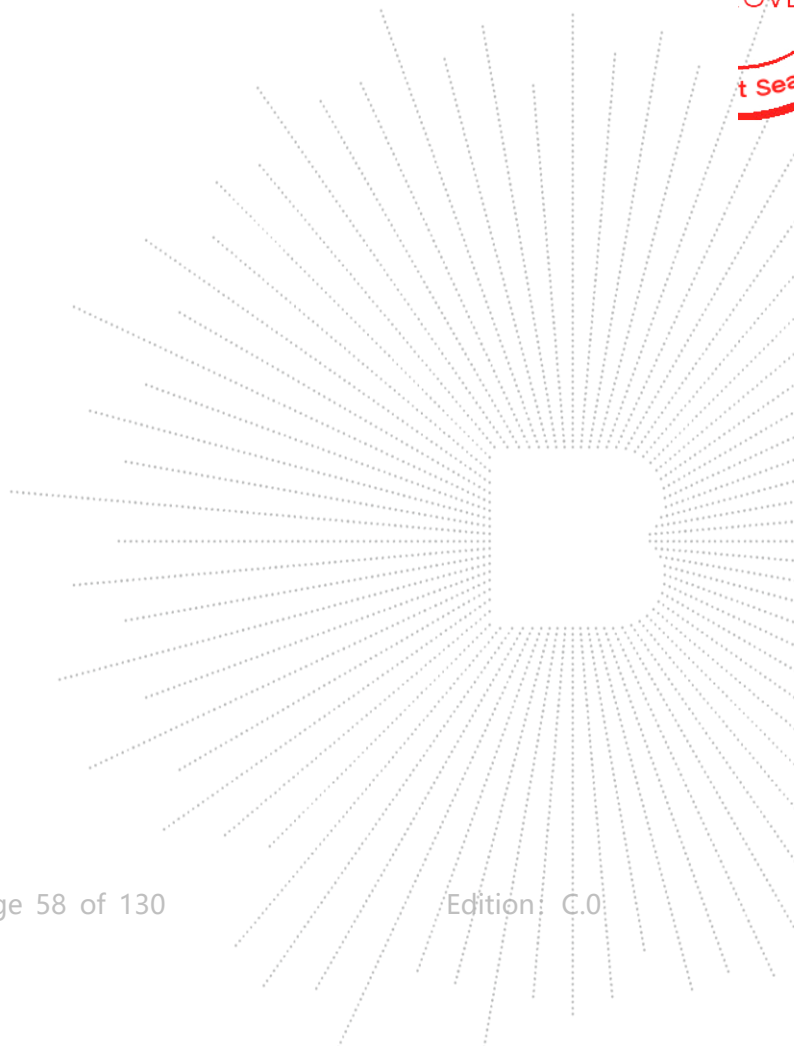
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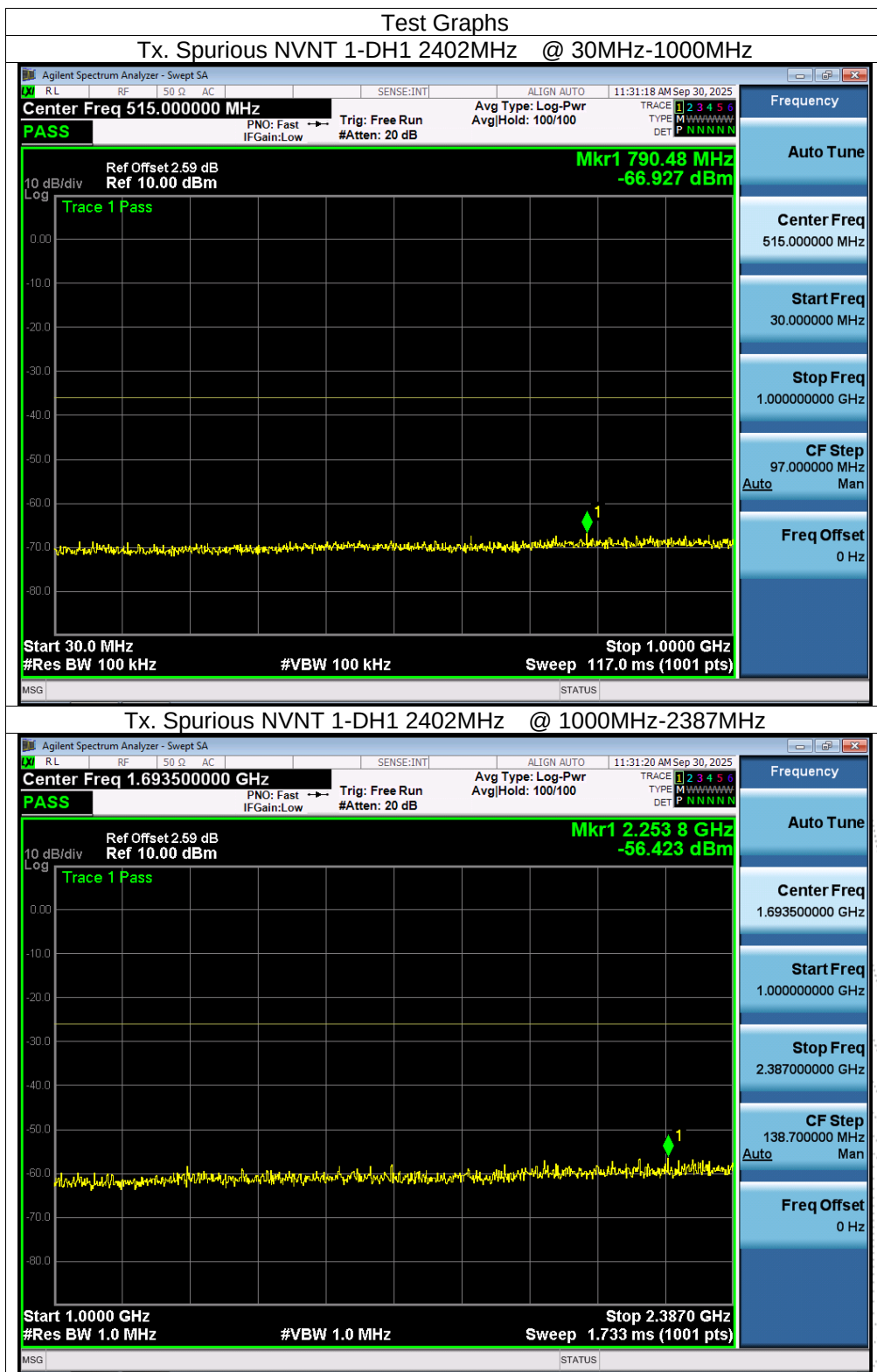
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V
Test Mode:	No-hopping		

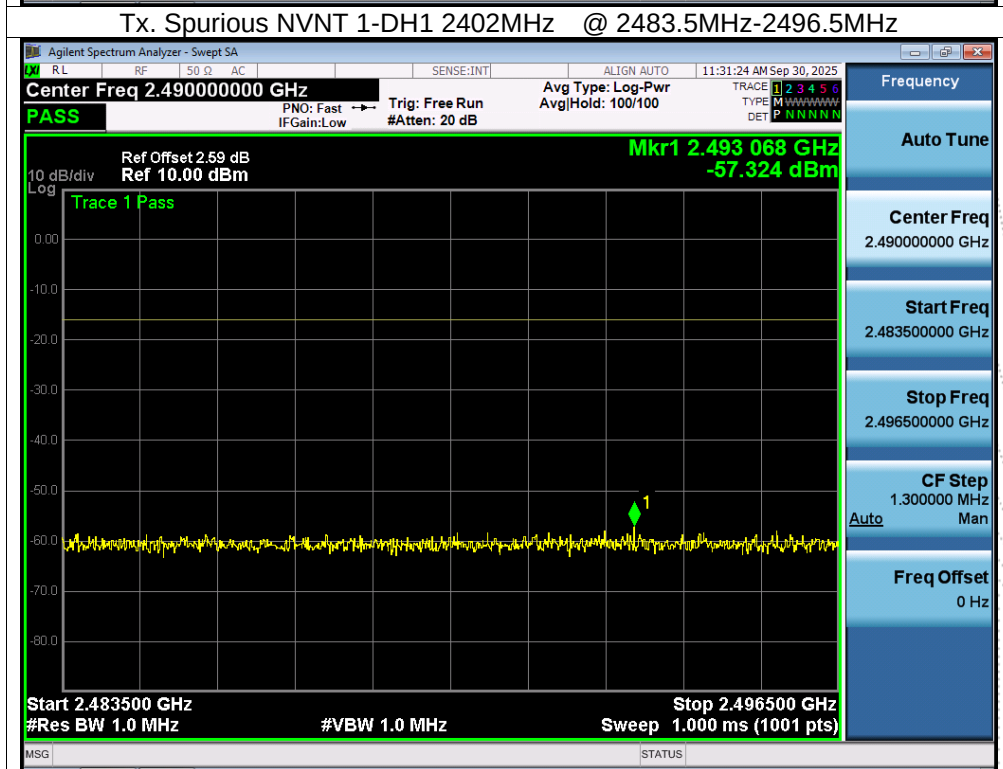
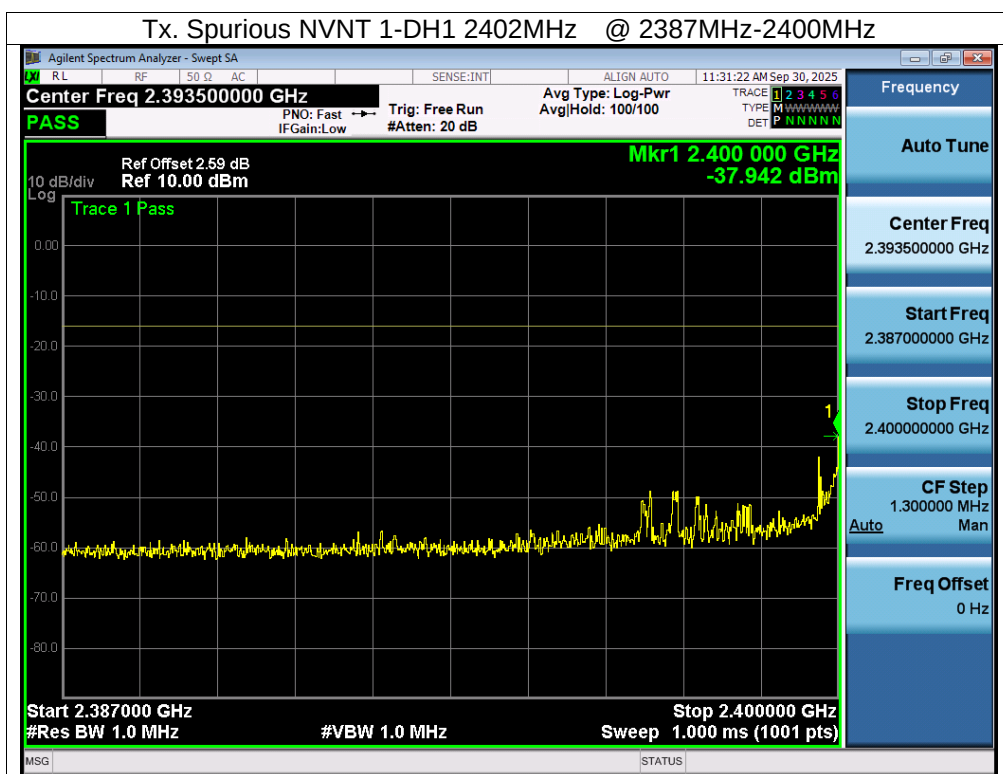
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	1-DH1	2402	30-1000	790.48	-66.93	-36	-36	Pass
NVNT	1-DH1	2402	1000-2387	2253.85	-56.42	-26	-26	Pass
NVNT	1-DH1	2402	2387-2400	2400	-37.94	-16	-16	Pass
NVNT	1-DH1	2402	2483.5-2496.5	2493.07	-57.32	-16	-16	Pass
NVNT	1-DH1	2402	2496.5-13000	5174.89	-37.6	-26	-26	Pass
NVNT	1-DH1	2441	30-1000	712.88	-47.06	-36	-36	Pass
NVNT	1-DH1	2441	1000-2387	2269.11	-57.03	-26	-26	Pass
NVNT	1-DH1	2441	2387-2400	2390.03	-57.55	-16	-16	Pass
NVNT	1-DH1	2441	2483.5-2496.5	2490.03	-57.12	-16	-16	Pass
NVNT	1-DH1	2441	2496.5-13000	4880.79	-40.83	-26	-26	Pass
NVNT	1-DH1	2480	30-1000	784.66	-67.05	-36	-36	Pass
NVNT	1-DH1	2480	1000-2387	2316.26	-55.39	-26	-26	Pass
NVNT	1-DH1	2480	2387-2400	2391.78	-58.11	-16	-16	Pass
NVNT	1-DH1	2480	2483.5-2496.5	2484.72	-47.56	-16	-16	Pass
NVNT	1-DH1	2480	2496.5-13000	4964.82	-42.94	-26	-26	Pass
NVNT	2-DH1	2402	30-1000	926.28	-66.81	-36	-36	Pass
NVNT	2-DH1	2402	1000-2387	2349.55	-57.52	-26	-26	Pass
NVNT	2-DH1	2402	2387-2400	2400	-35.77	-16	-16	Pass
NVNT	2-DH1	2402	2483.5-2496.5	2489.86	-56.81	-16	-16	Pass
NVNT	2-DH1	2402	2496.5-13000	4807.27	-40.51	-26	-26	Pass
NVNT	2-DH1	2441	30-1000	772.05	-66.79	-36	-36	Pass
NVNT	2-DH1	2441	1000-2387	2384.23	-57.1	-26	-26	Pass
NVNT	2-DH1	2441	2387-2400	2387.57	-57.56	-16	-16	Pass
NVNT	2-DH1	2441	2483.5-2496.5	2485.41	-56.61	-16	-16	Pass
NVNT	2-DH1	2441	2496.5-13000	4880.79	-40.62	-26	-26	Pass
NVNT	2-DH1	2480	30-1000	856.44	-67	-36	-36	Pass
NVNT	2-DH1	2480	1000-2387	1932.06	-46.33	-26	-26	Pass
NVNT	2-DH1	2480	2387-2400	2396	-57.71	-16	-16	Pass
NVNT	2-DH1	2480	2483.5-2496.5	2483.77	-43.2	-16	-16	Pass
NVNT	2-DH1	2480	2496.5-13000	5174.89	-38.84	-26	-26	Pass
NVNT	3-DH1	2402	30-1000	892.33	-66.33	-36	-36	Pass
NVNT	3-DH1	2402	1000-2387	2338.46	-57.1	-26	-26	Pass
NVNT	3-DH1	2402	2387-2400	2399.82	-26.49	-16	-16	Pass
NVNT	3-DH1	2402	2483.5-2496.5	2489.55	-56.82	-16	-16	Pass
NVNT	3-DH1	2402	2496.5-13000	4807.27	-40.86	-26	-26	Pass
NVNT	3-DH1	2441	30-1000	820.55	-66.74	-36	-36	Pass
NVNT	3-DH1	2441	1000-2387	2313.49	-56.23	-26	-26	Pass
NVNT	3-DH1	2441	2387-2400	2391.41	-58.28	-16	-16	Pass
NVNT	3-DH1	2441	2483.5-2496.5	2492.94	-57.23	-16	-16	Pass

NVNT	3-DH1	2441	2496.5-13000	5174.89	-40.03	-26	-26	Pass
NVNT	3-DH1	2480	30-1000	923.37	-66.36	-36	-36	Pass
NVNT	3-DH1	2480	1000-2387	2070.76	-56.78	-26	-26	Pass
NVNT	3-DH1	2480	2387-2400	2387.78	-57.73	-16	-16	Pass
NVNT	3-DH1	2480	2483.5-2496.5	2484.01	-33.27	-16	-16	Pass
NVNT	3-DH1	2480	2496.5-13000	4964.82	-43.03	-26	-26	Pass

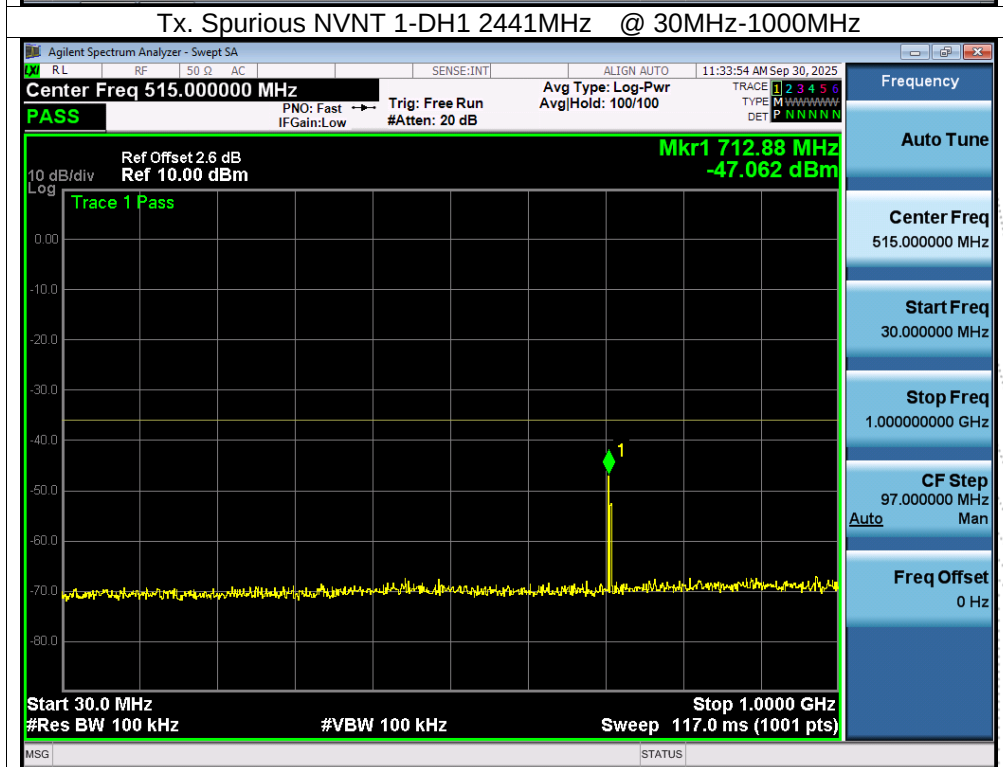
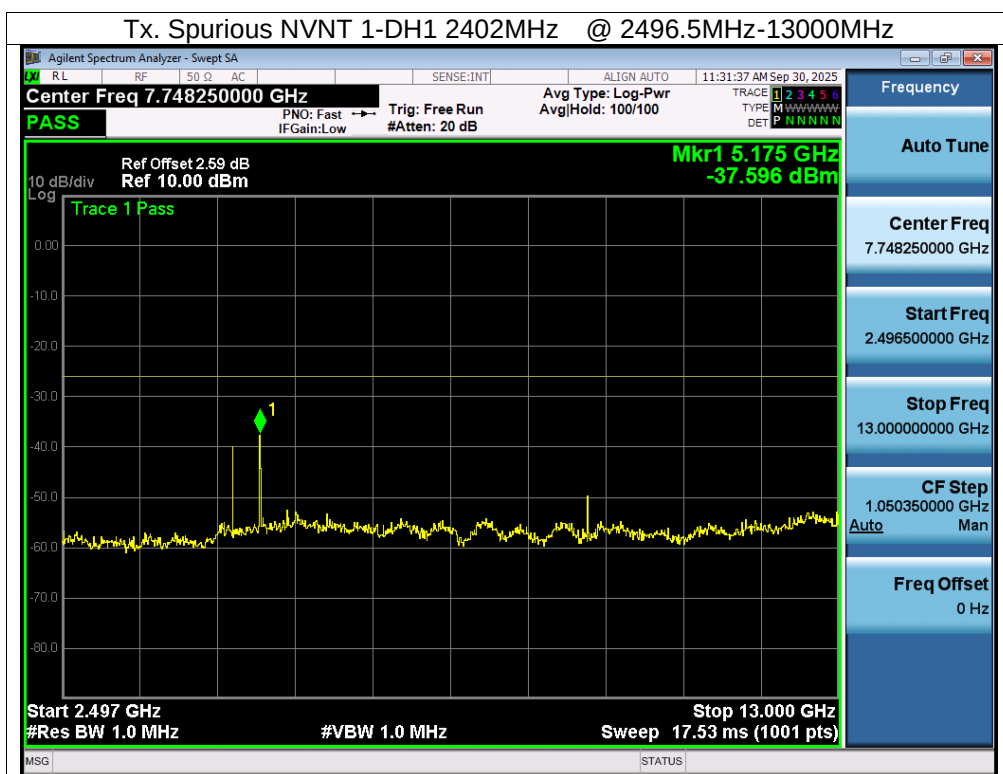
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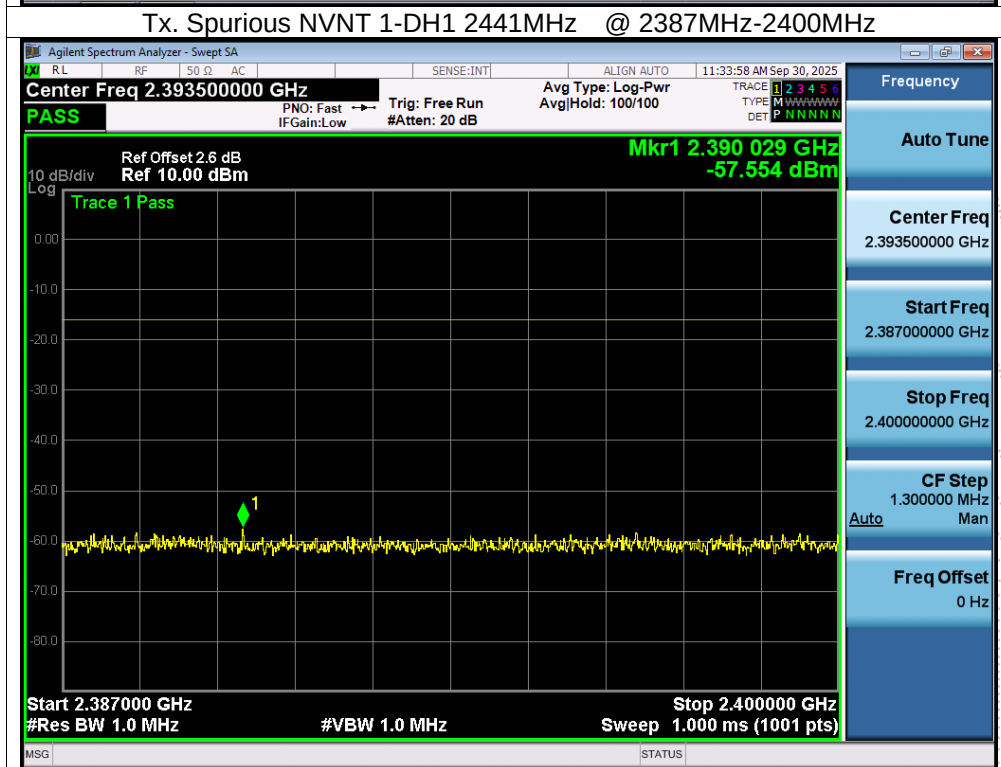
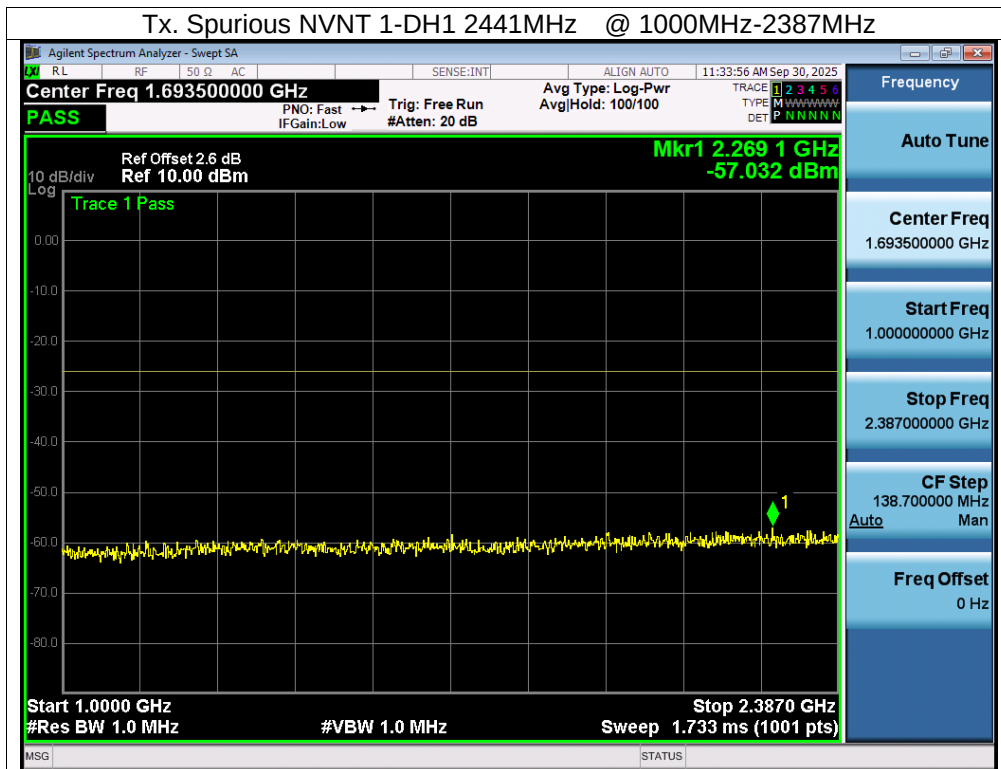


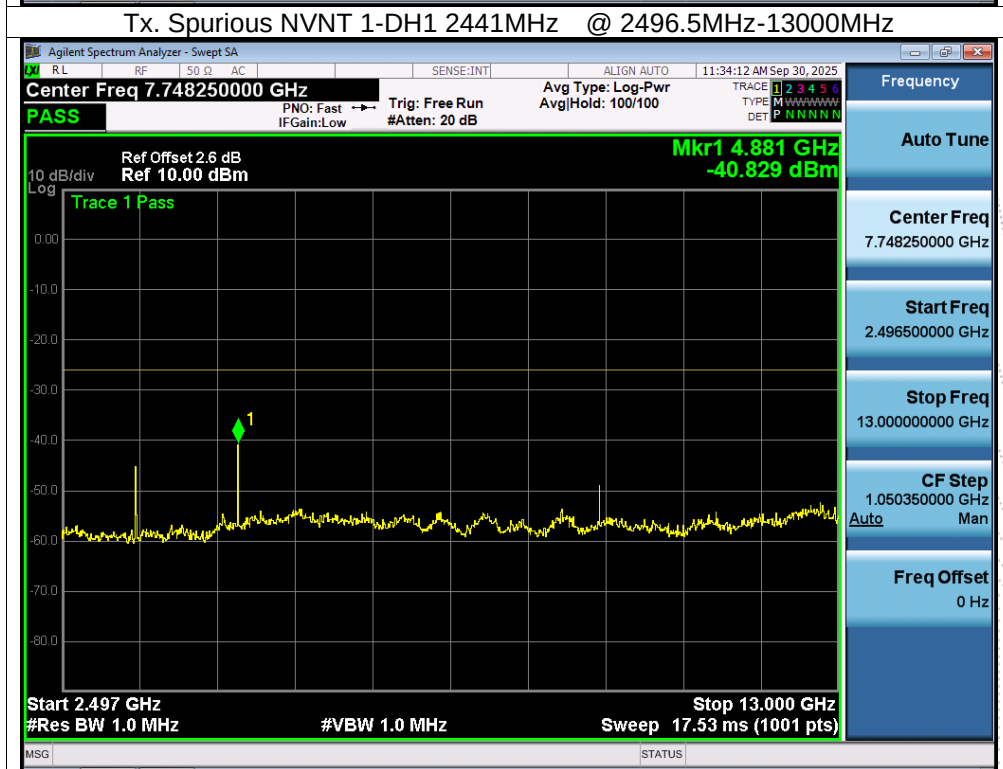
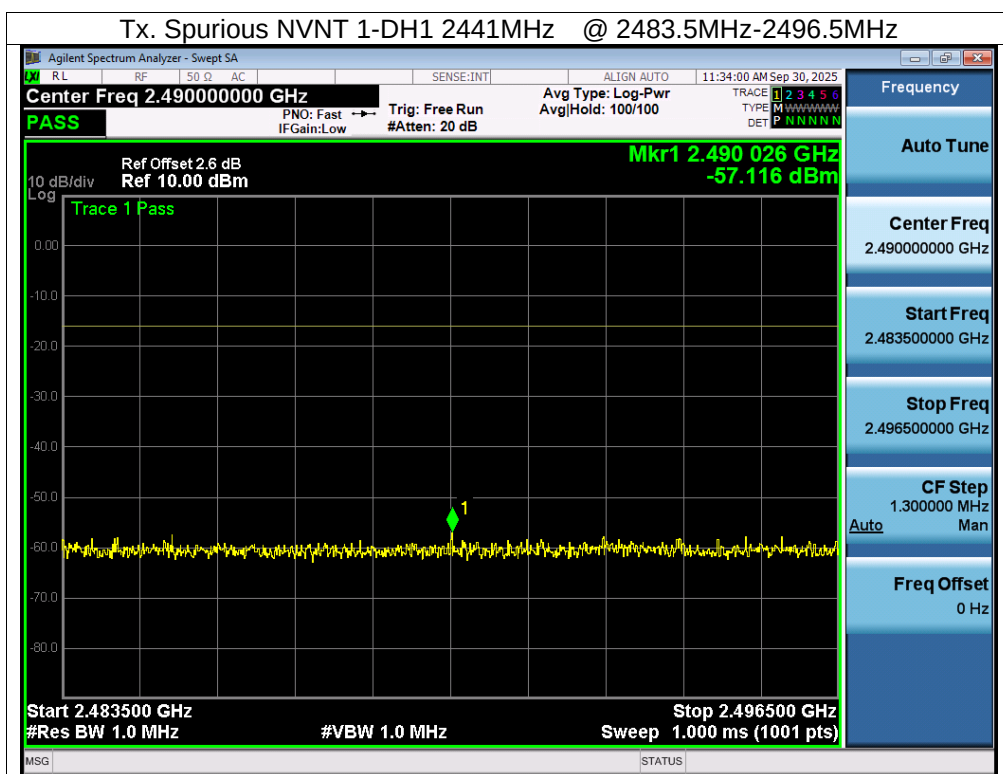


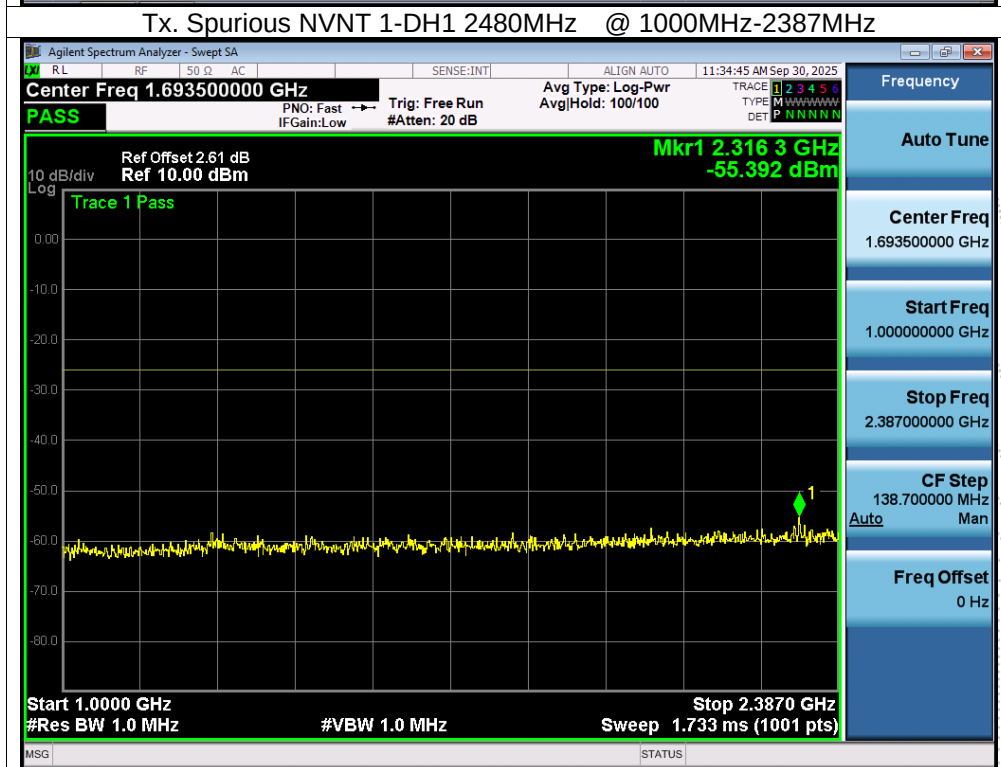
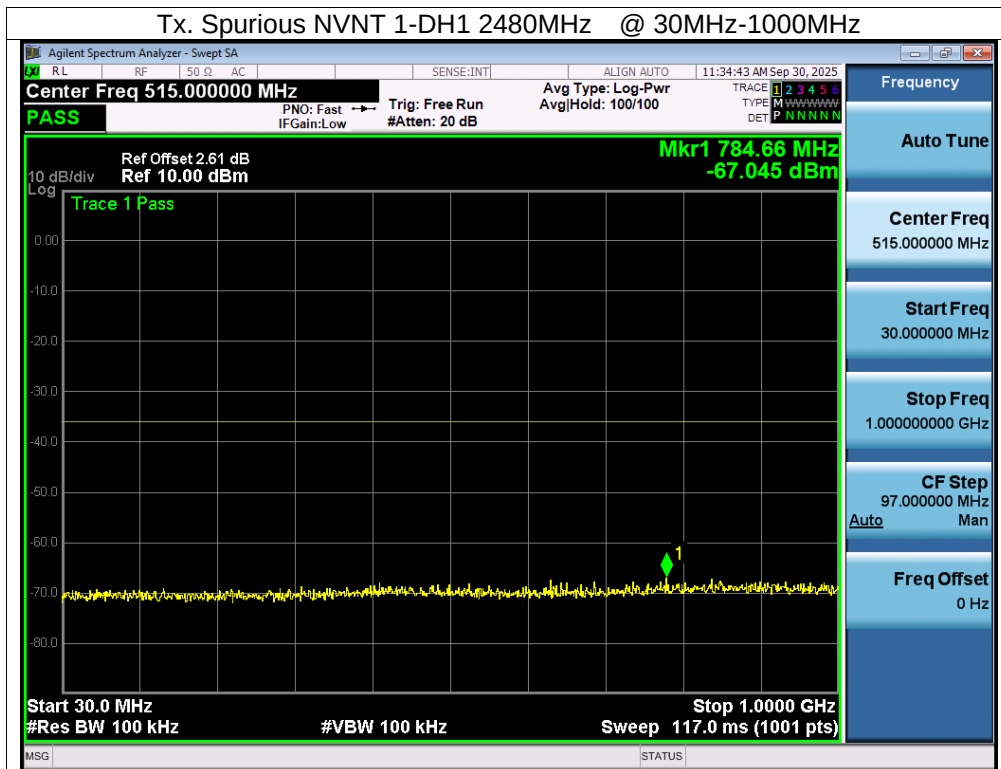


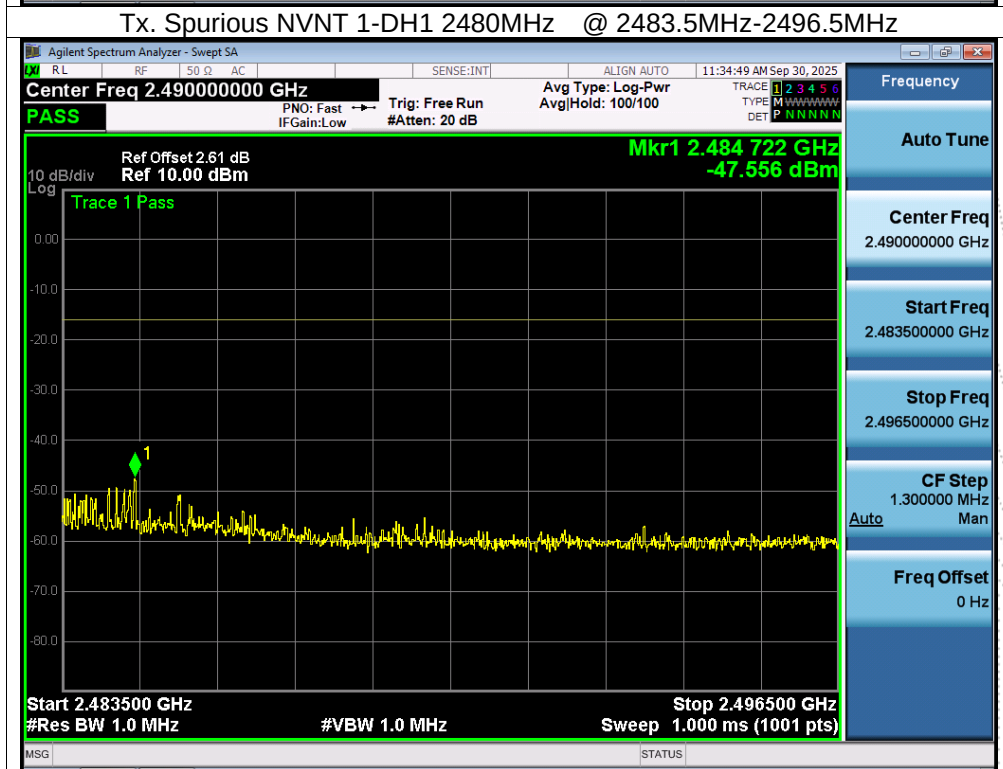
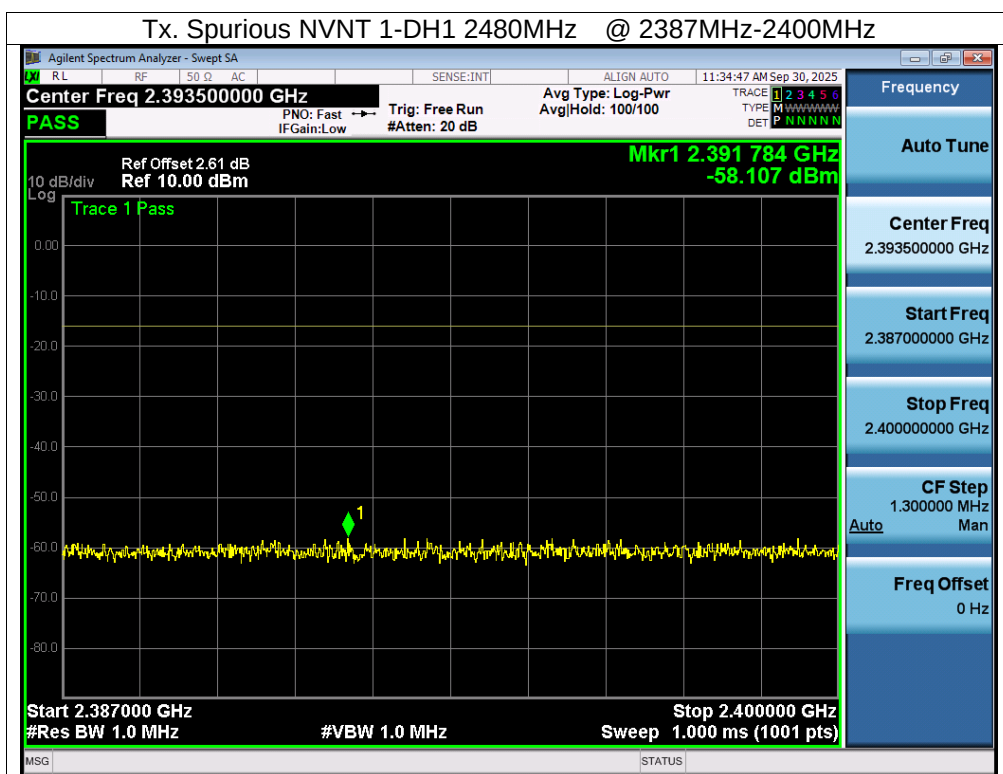
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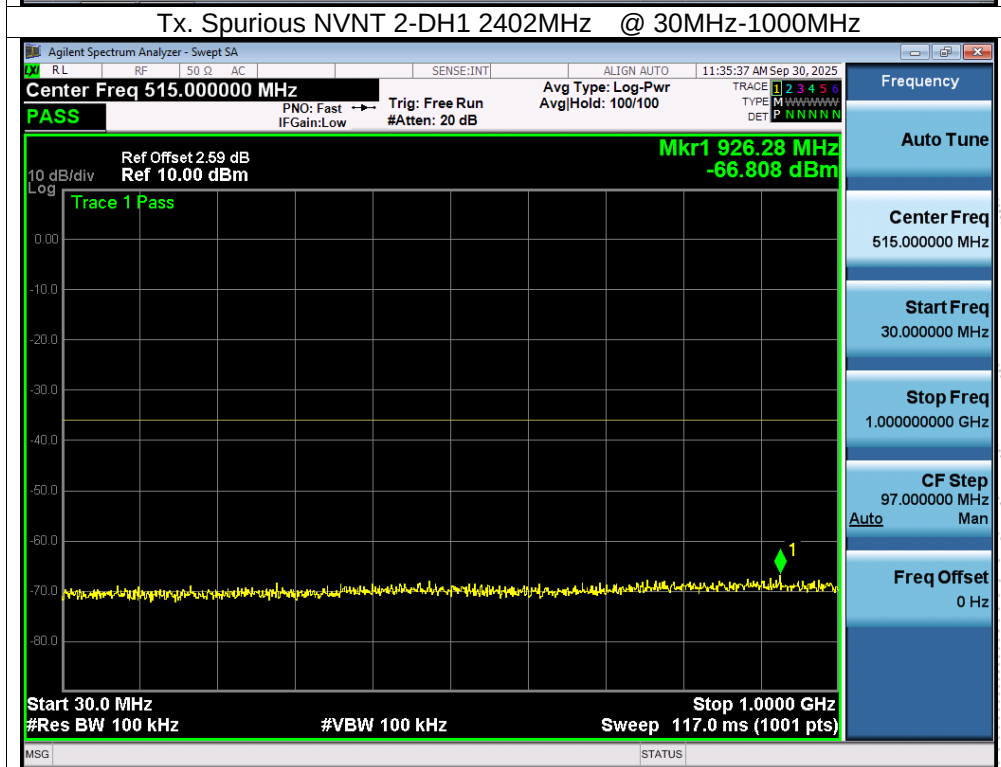
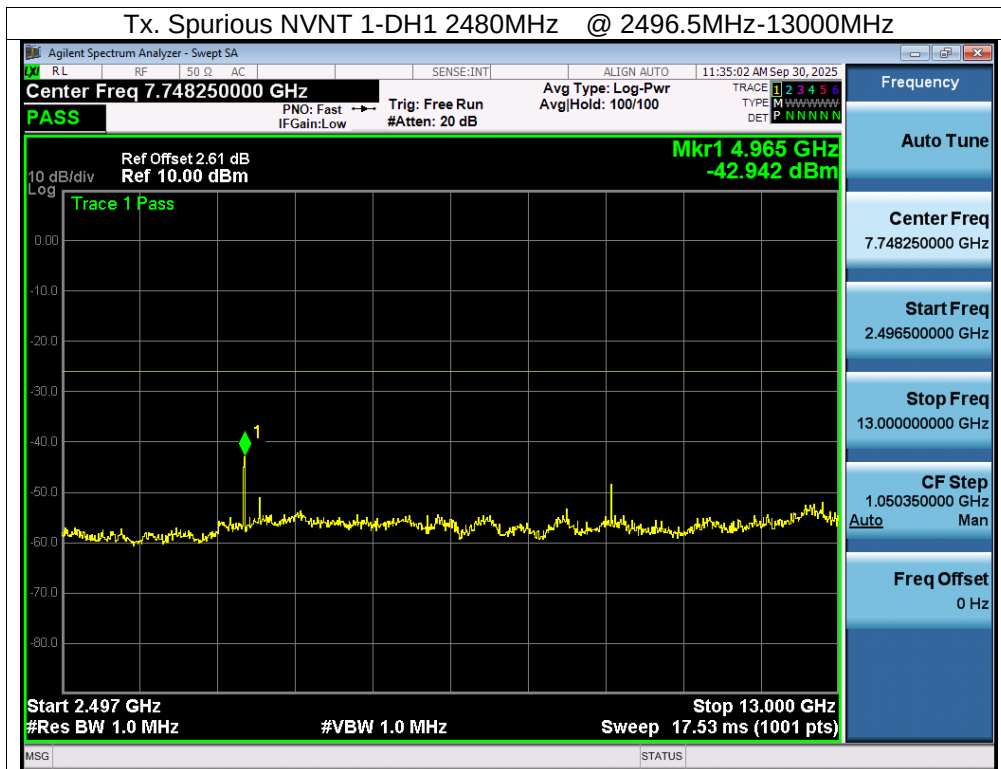


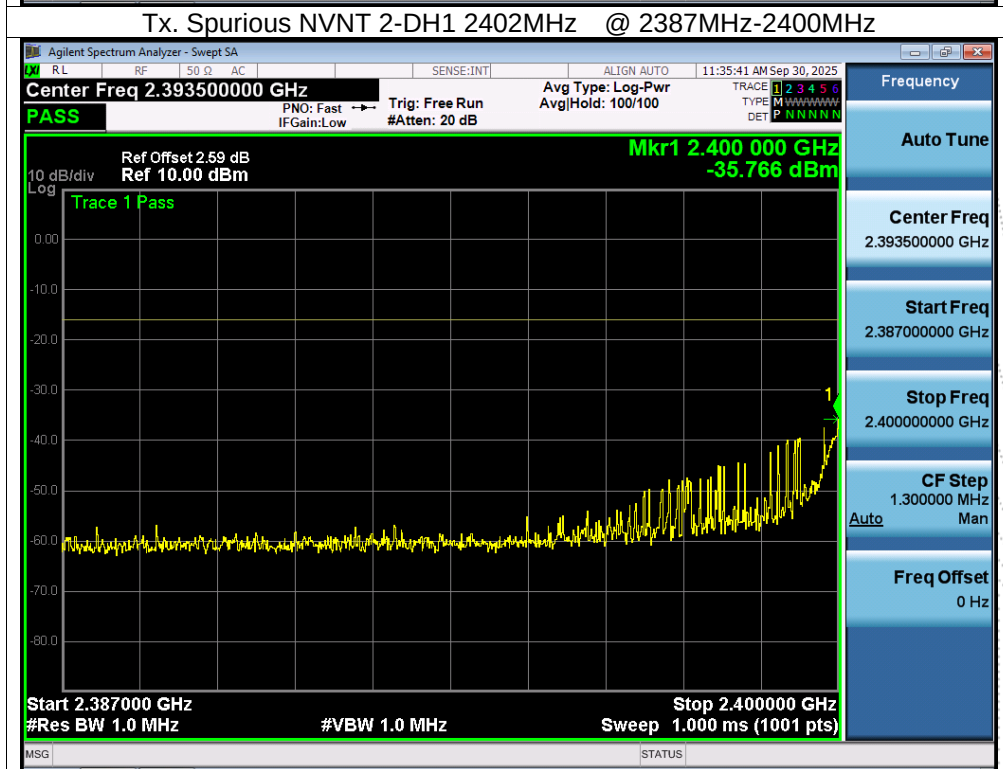
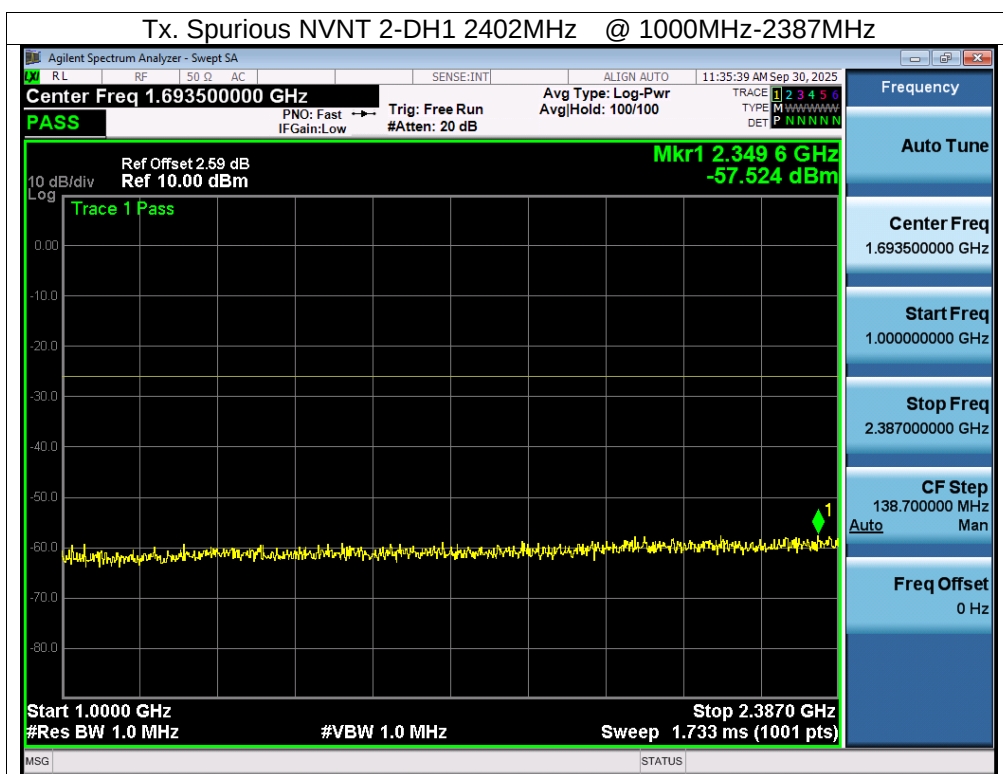


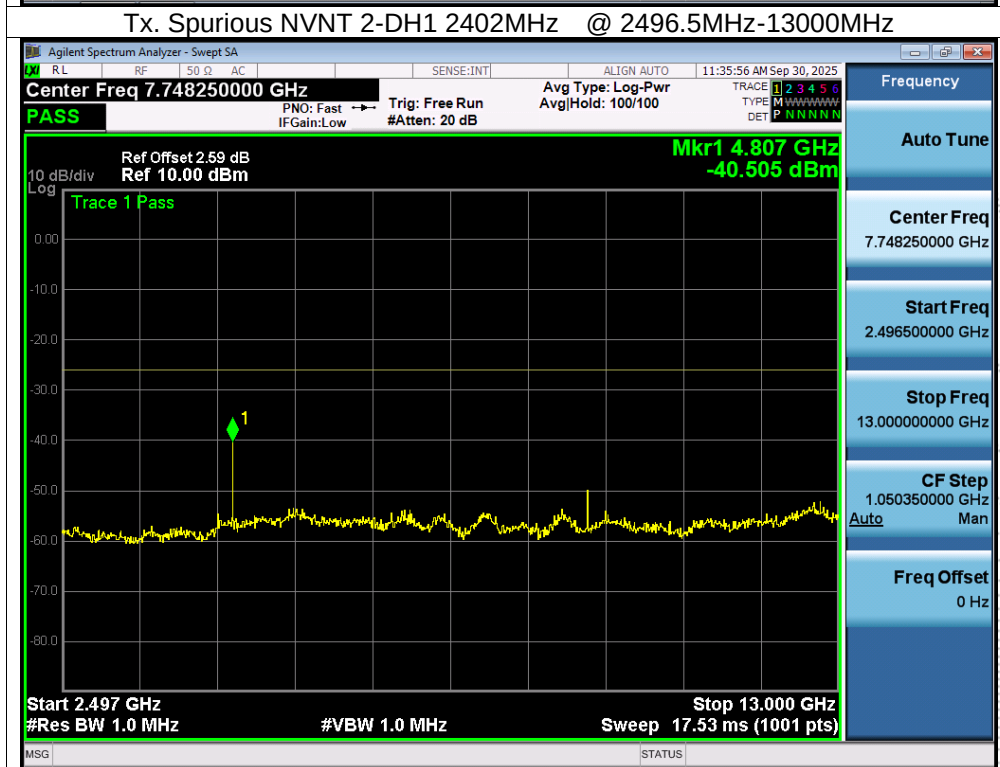
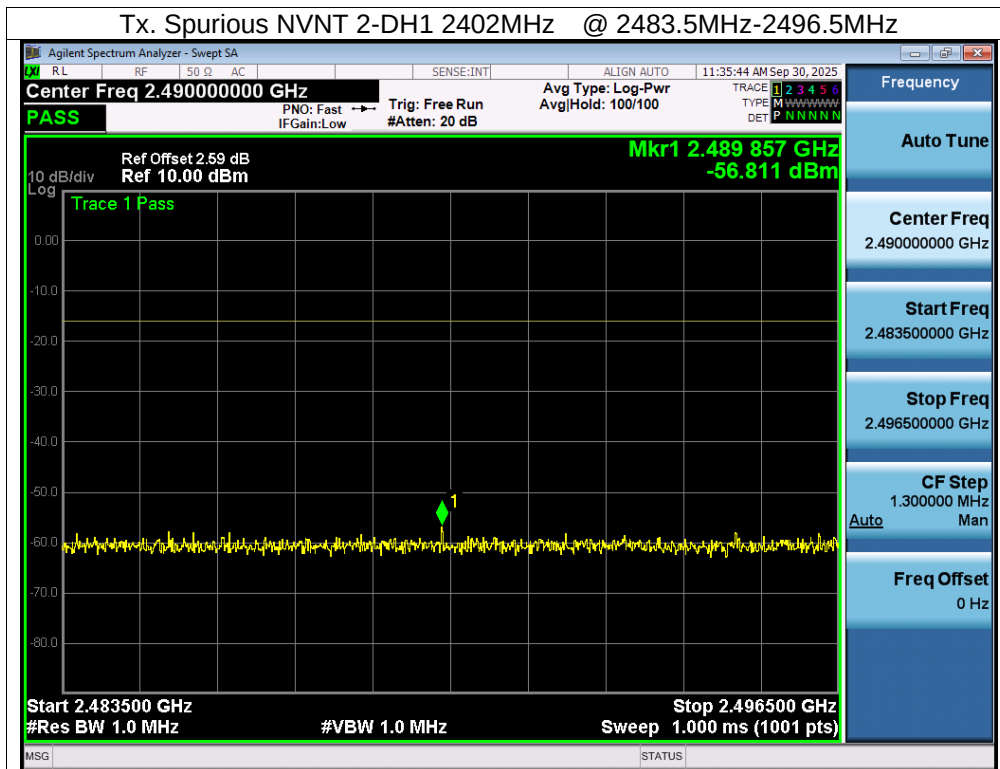


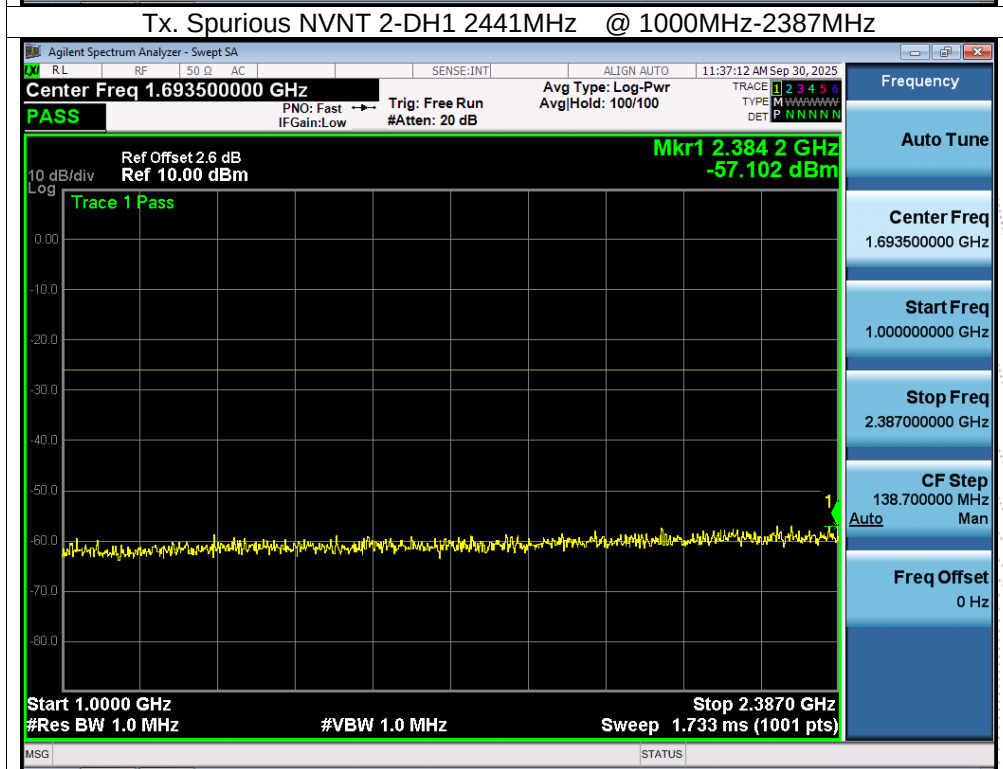
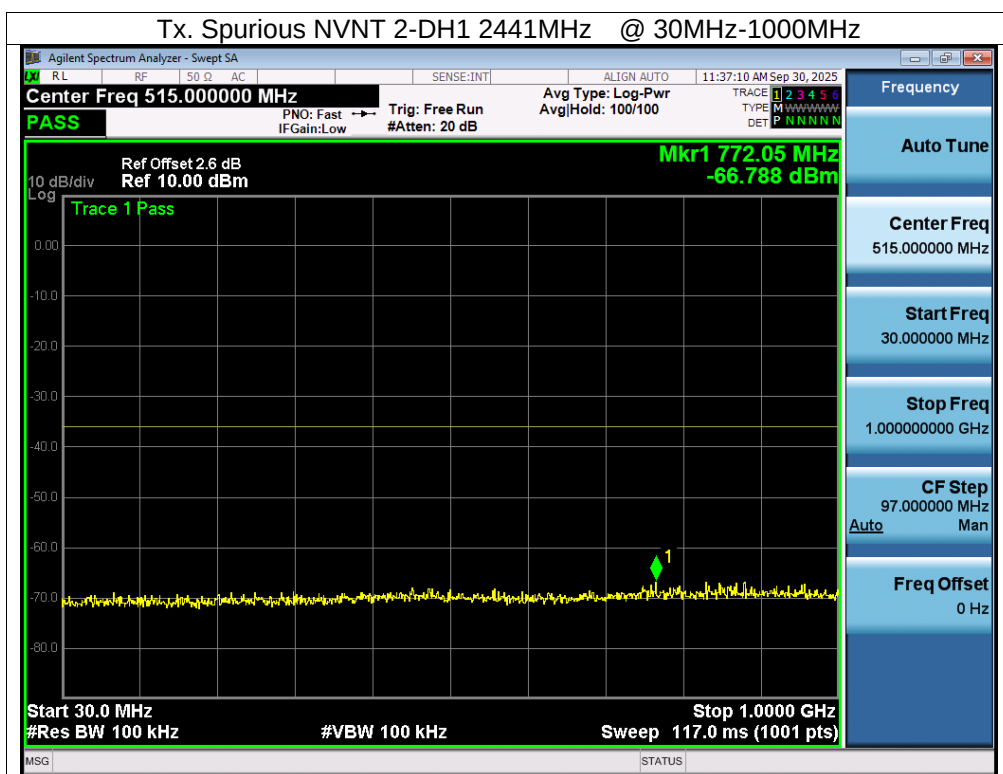


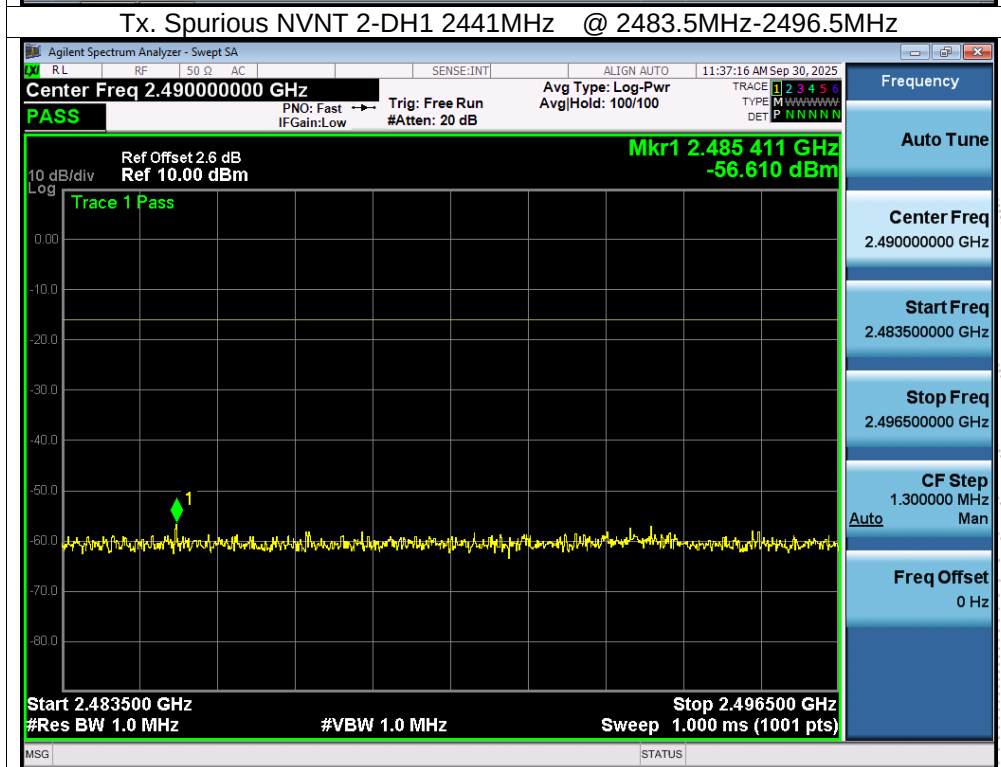
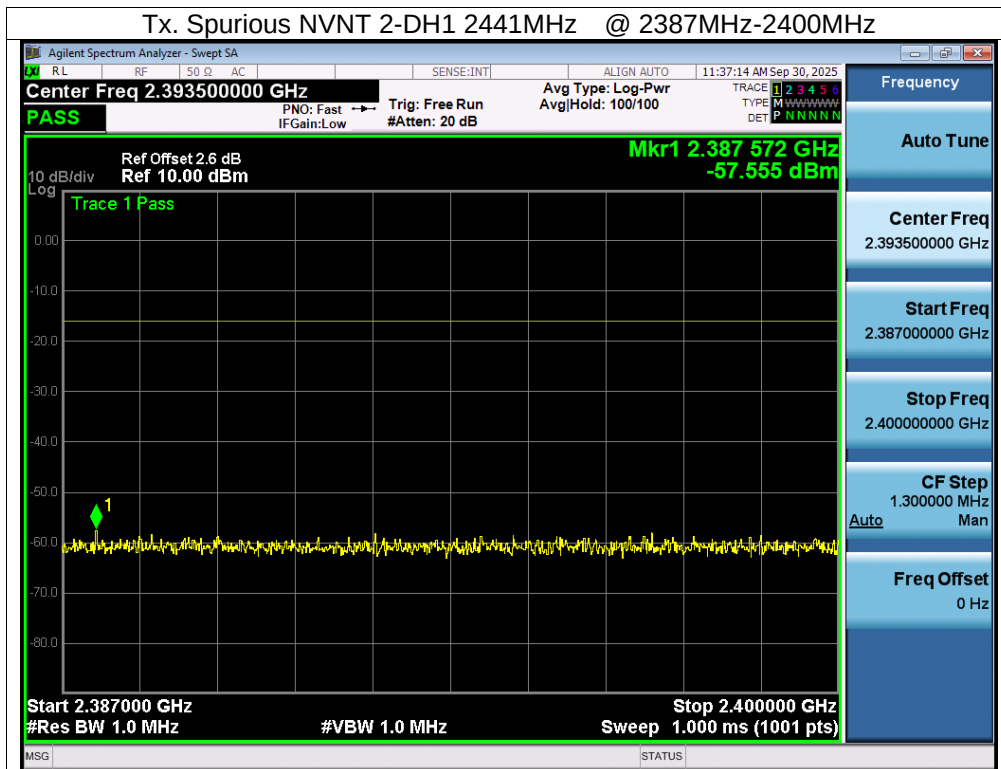


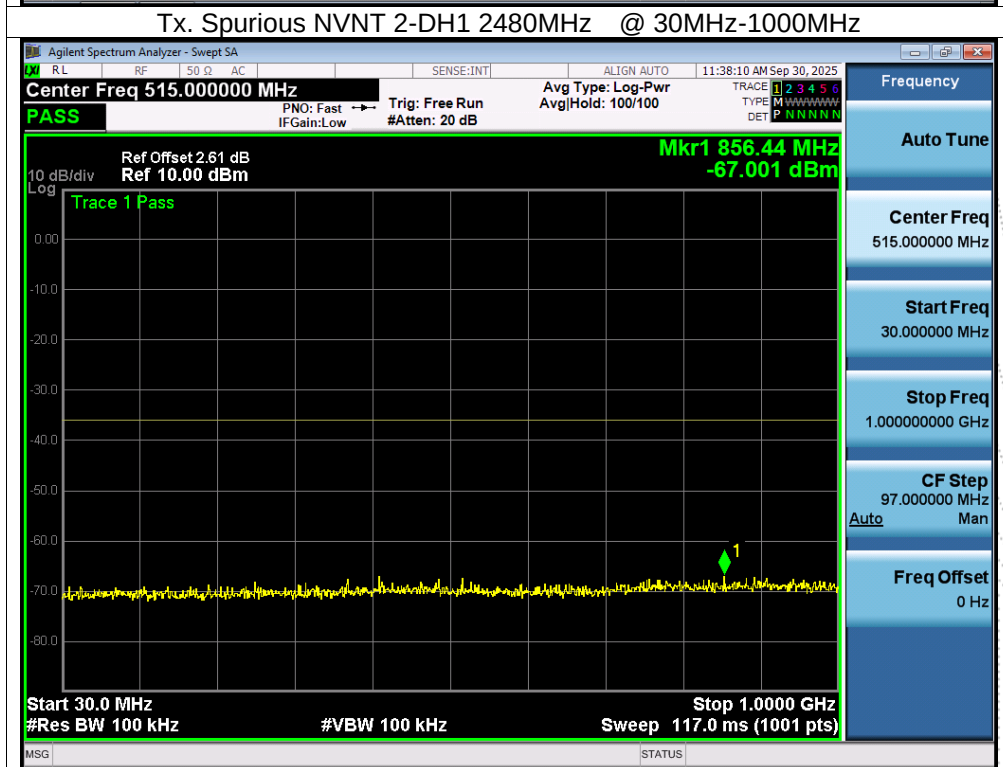
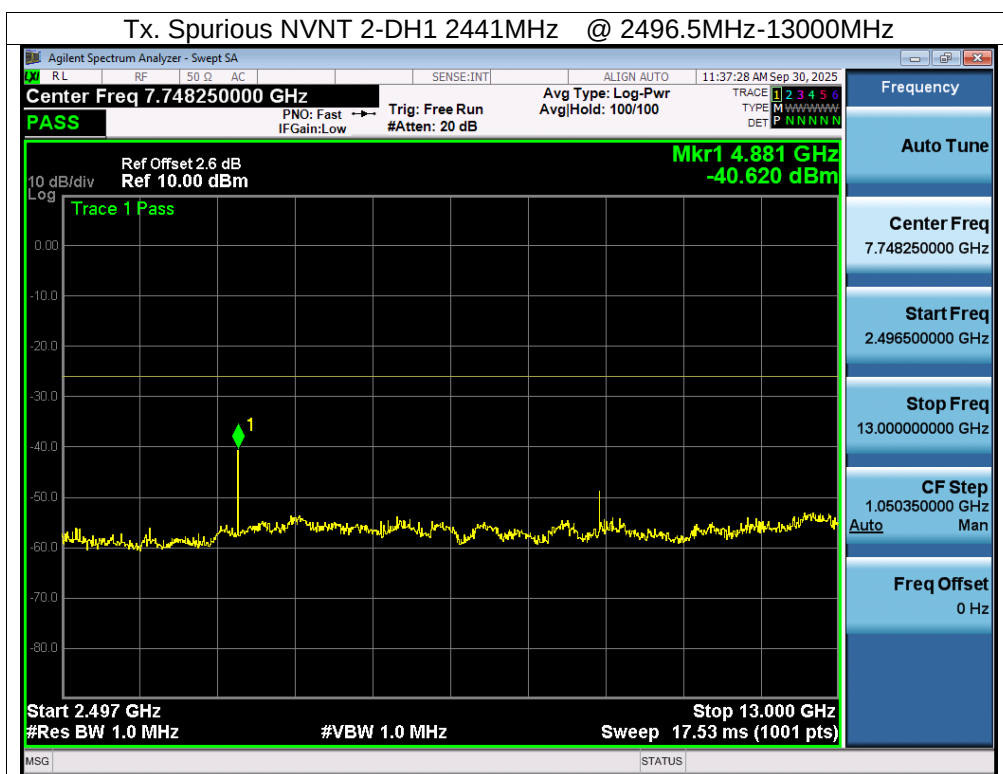


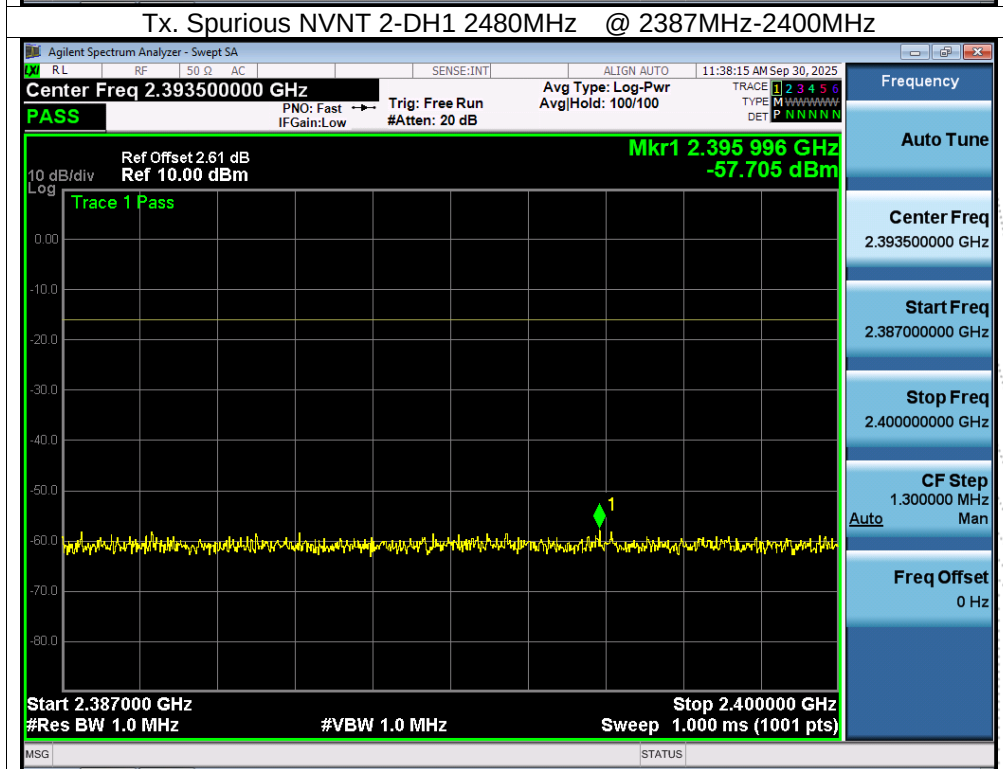
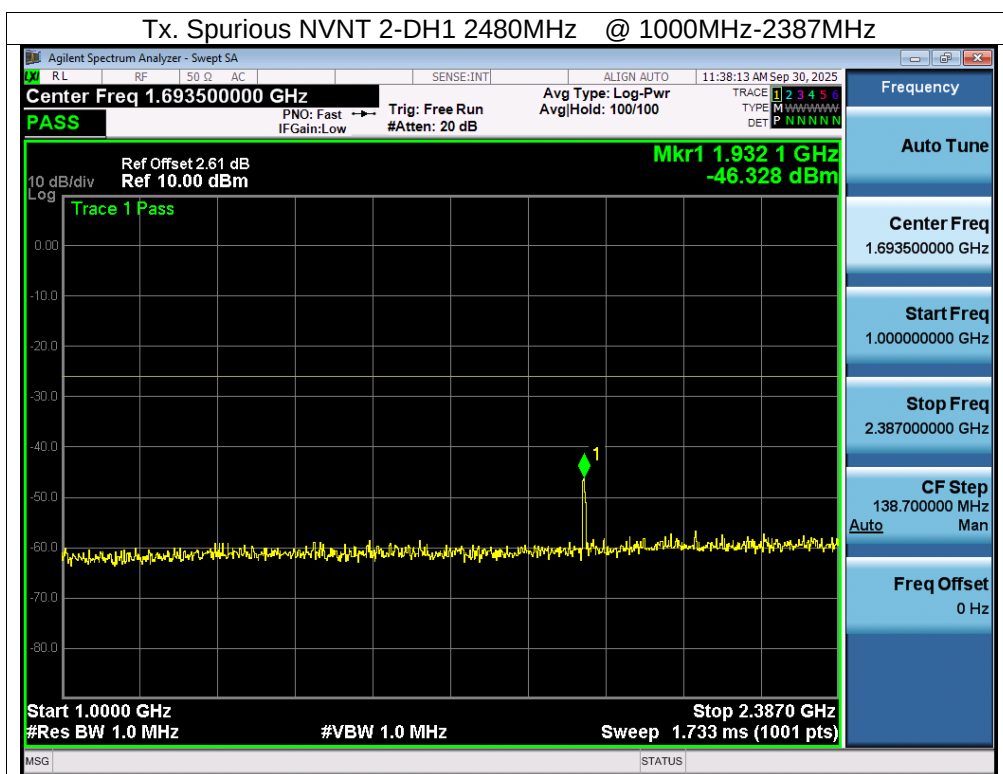


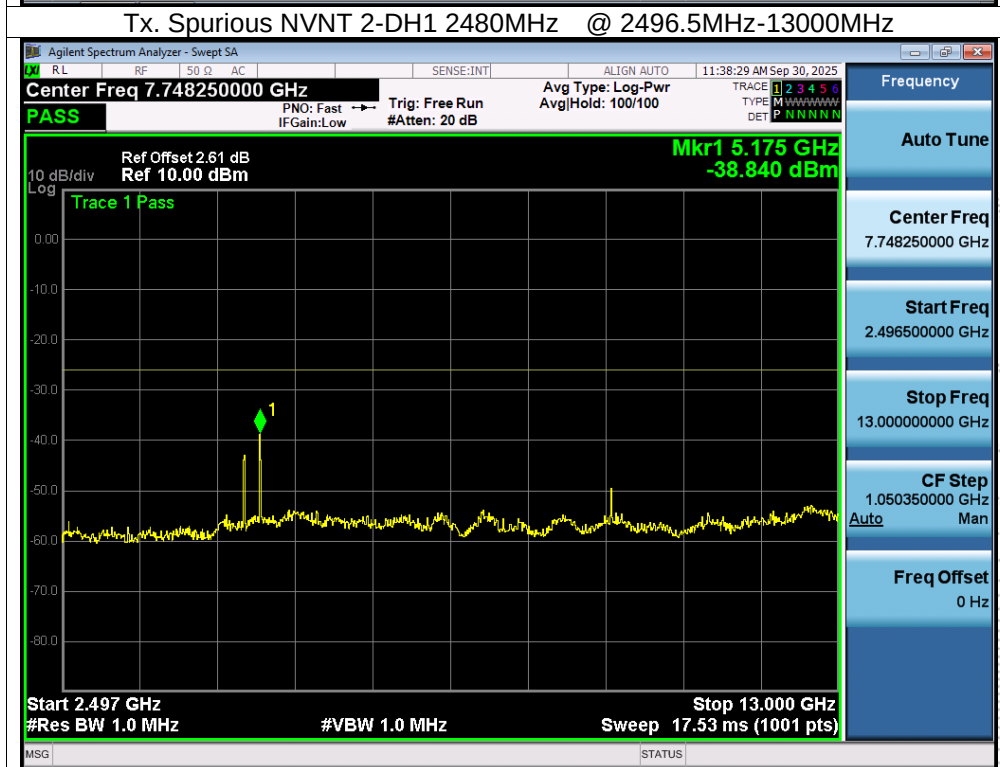
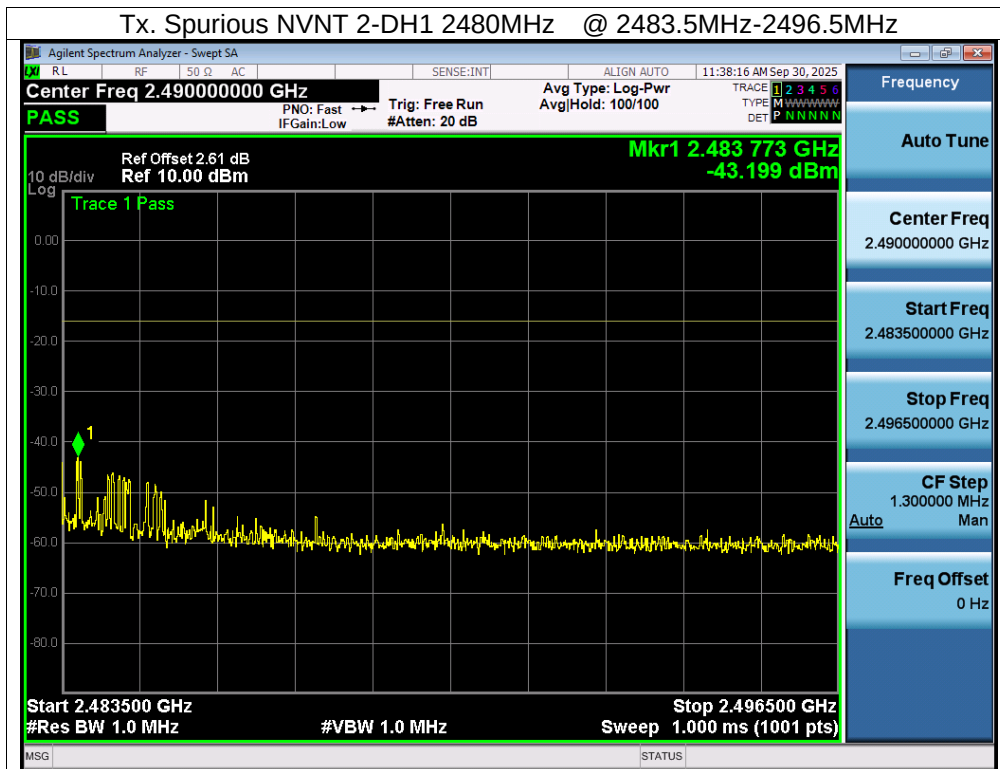


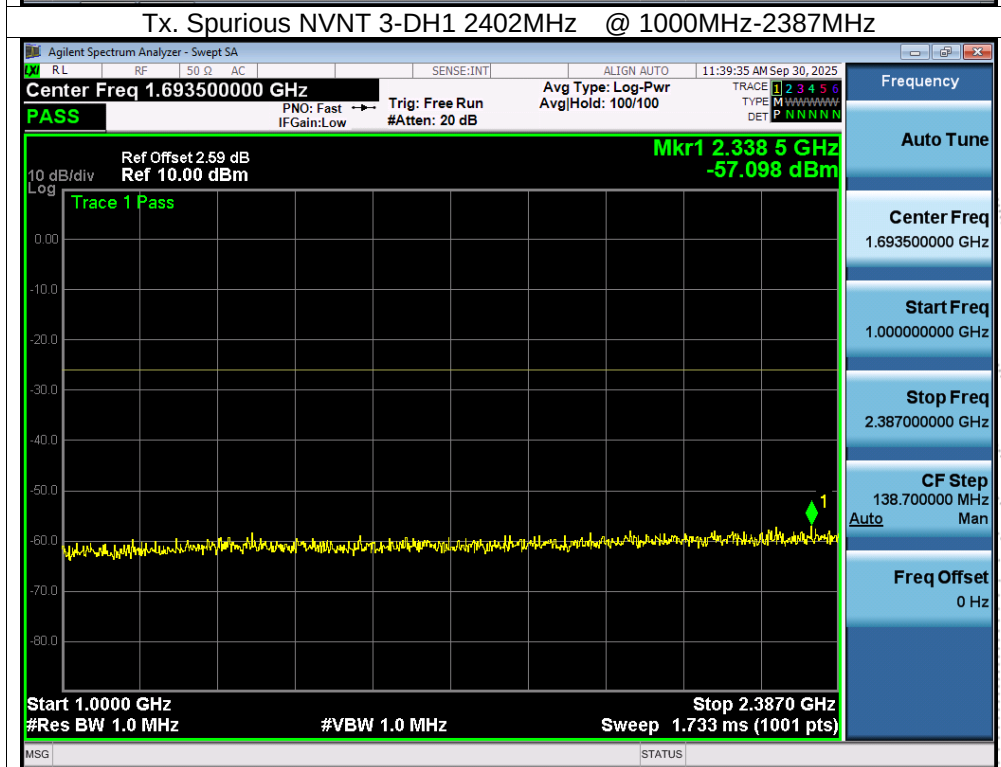
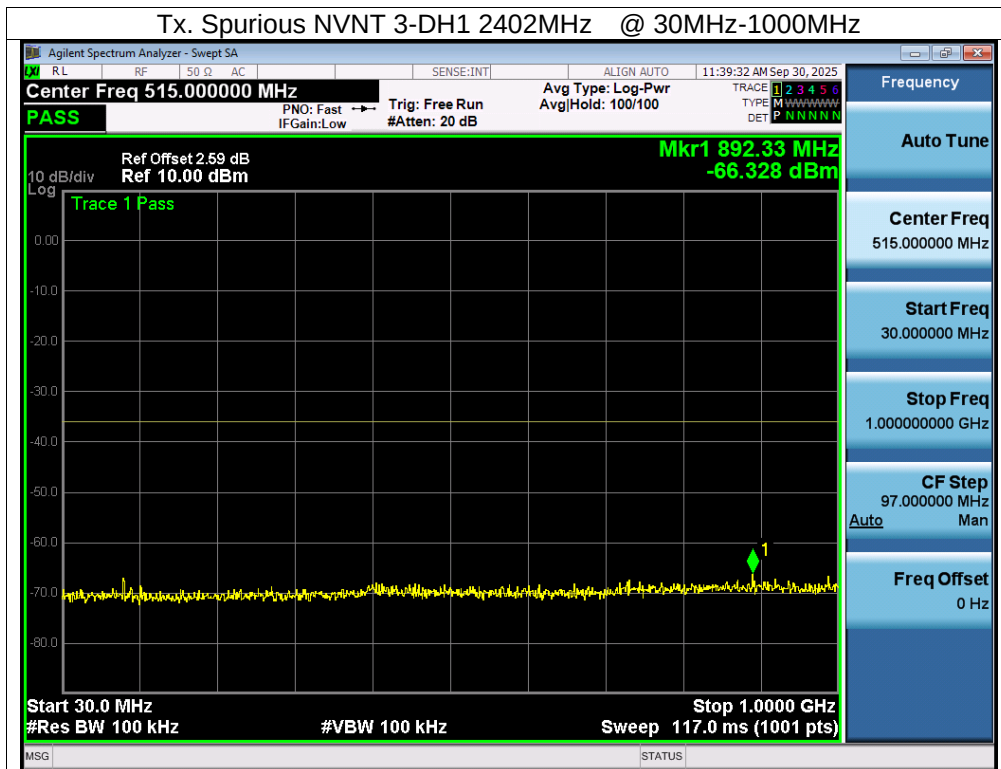


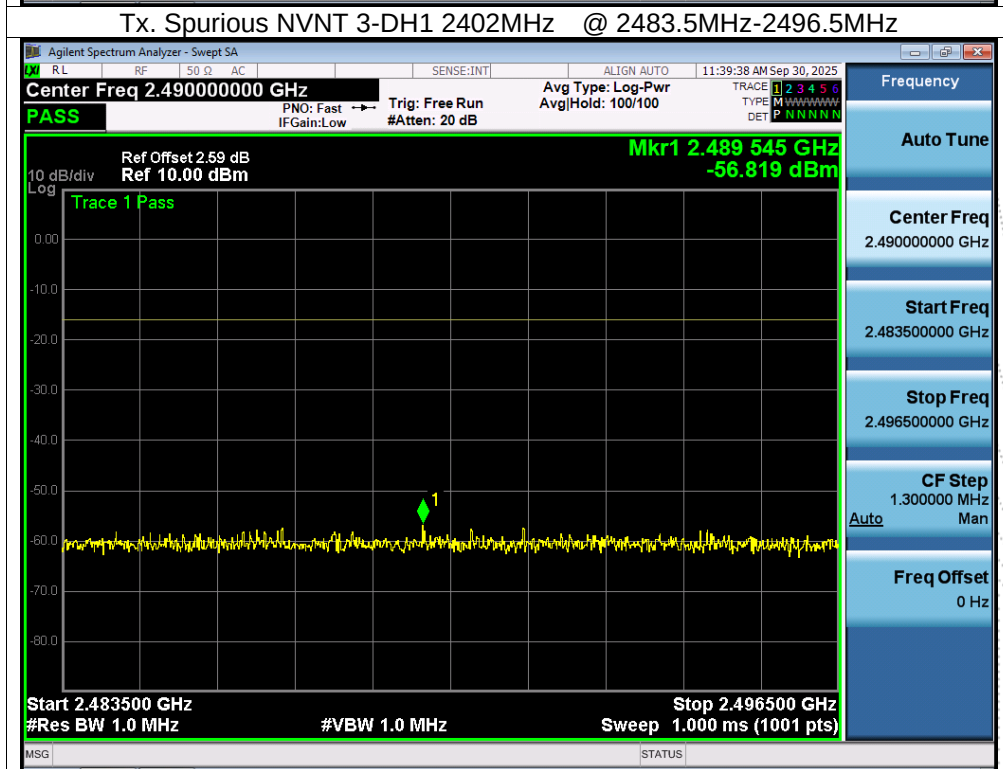
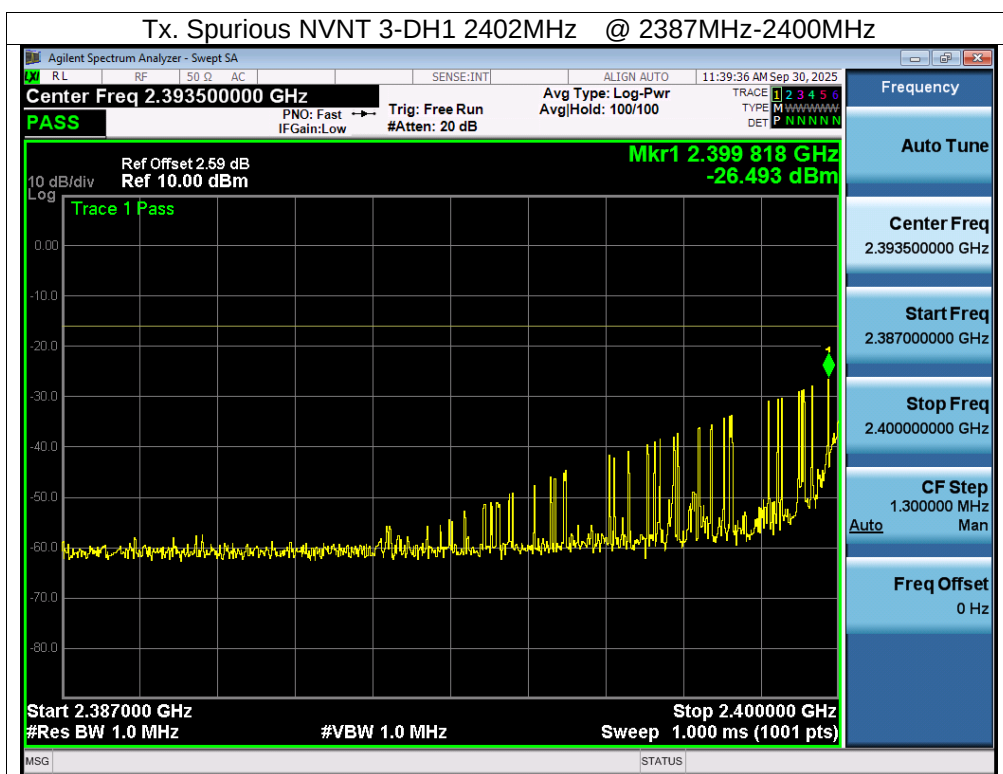


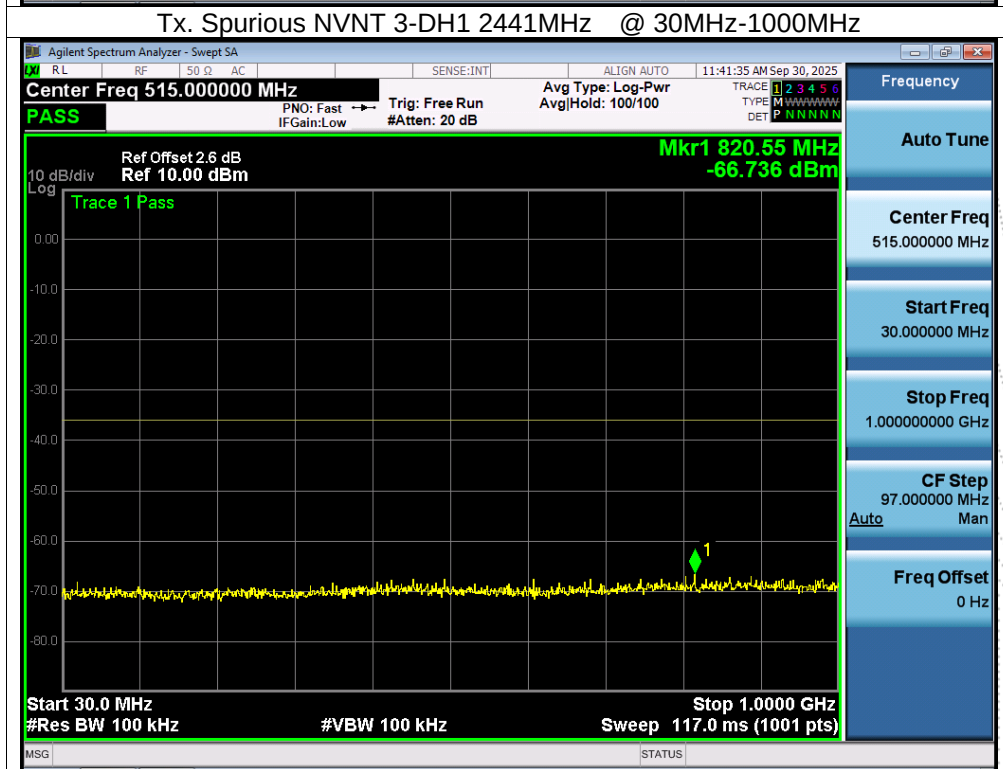
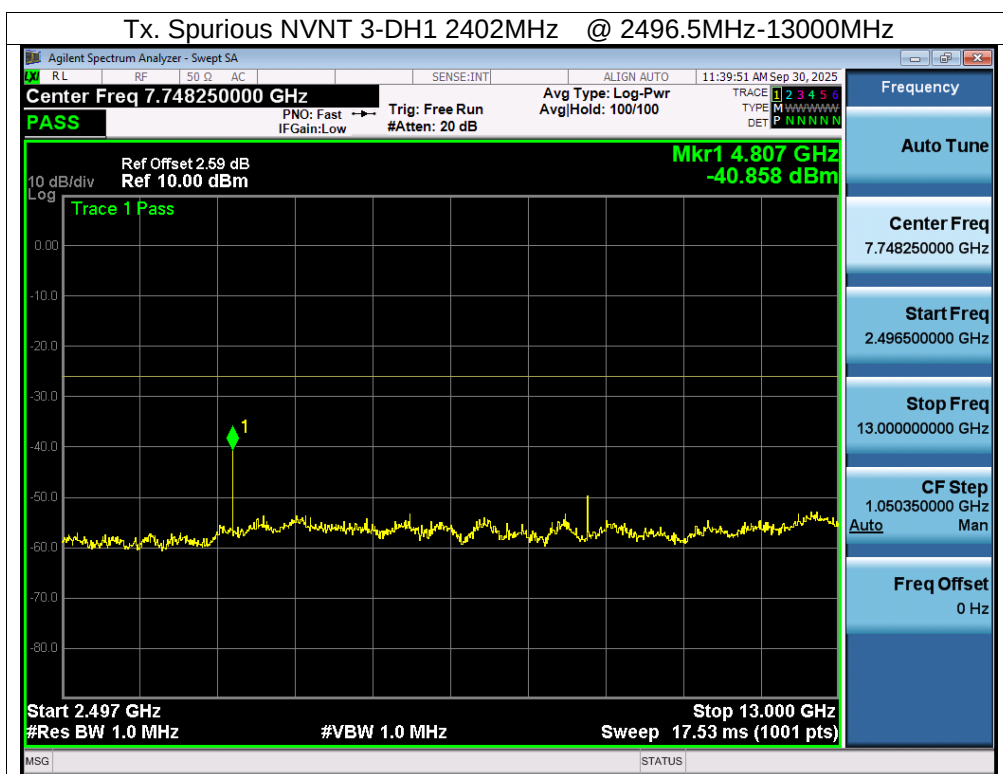


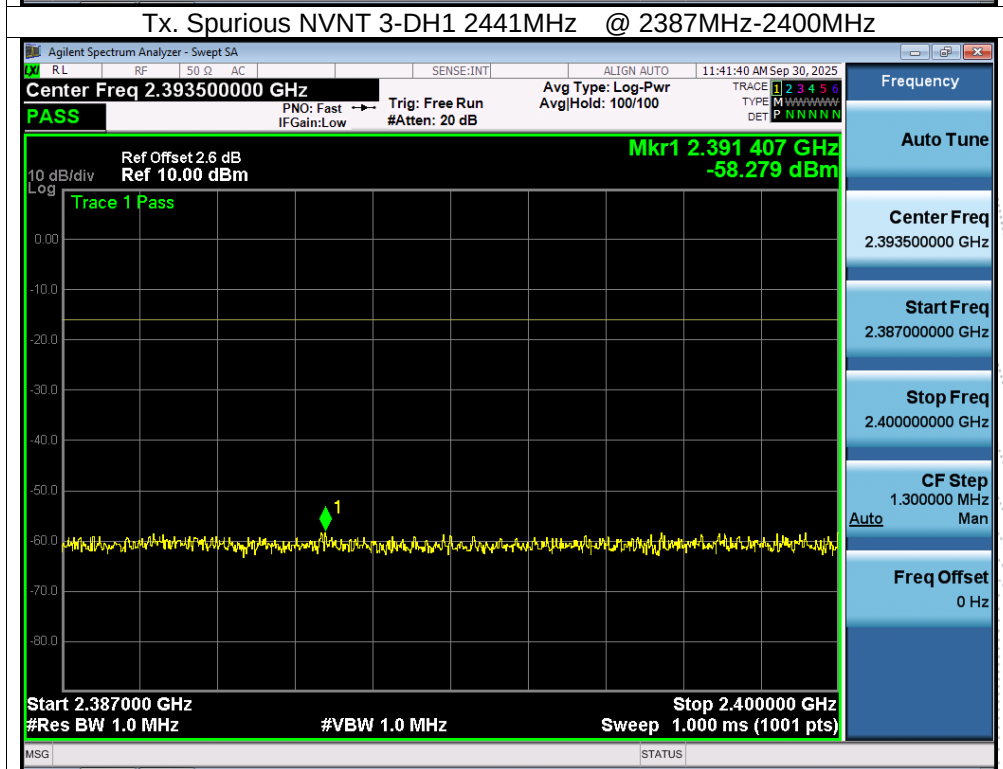
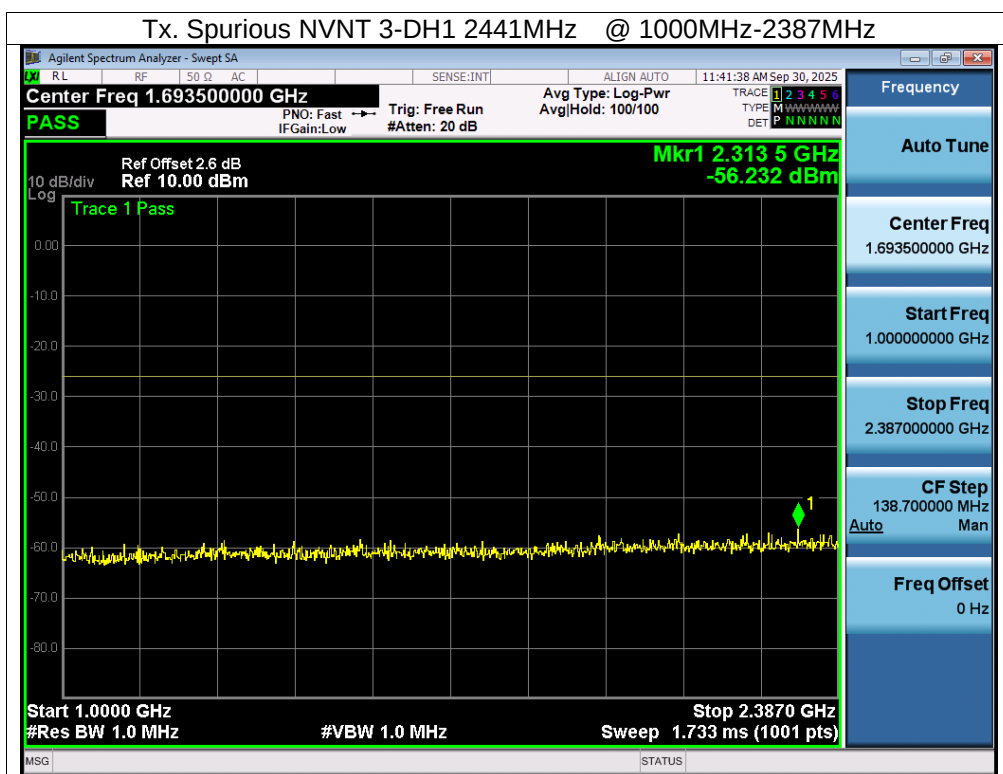


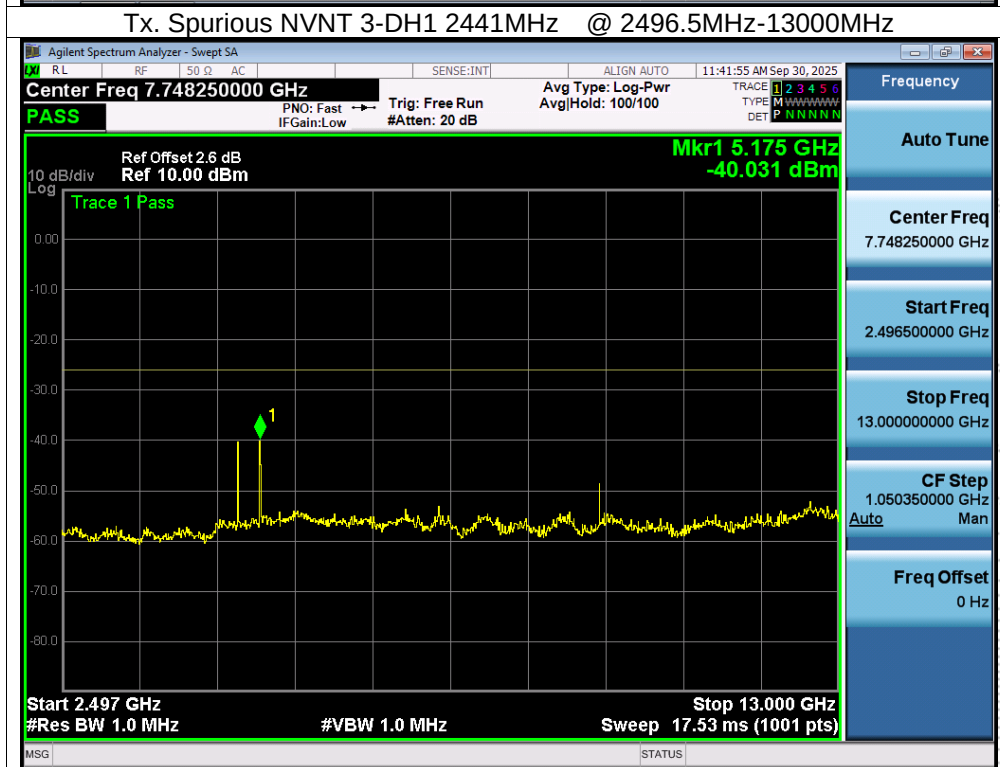
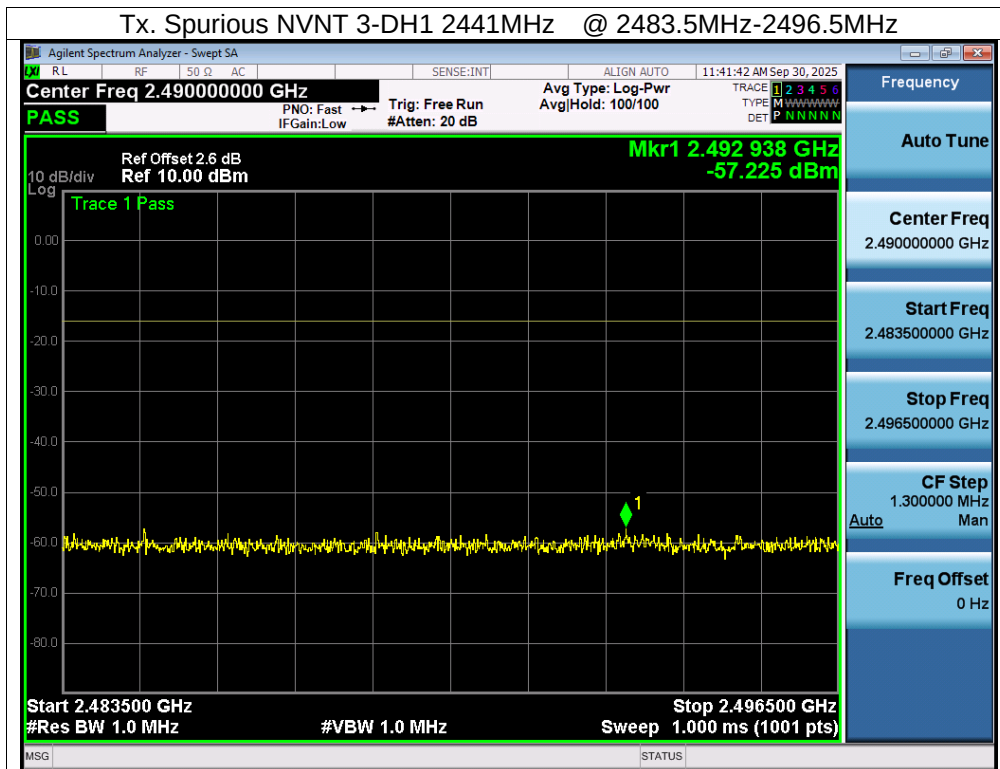


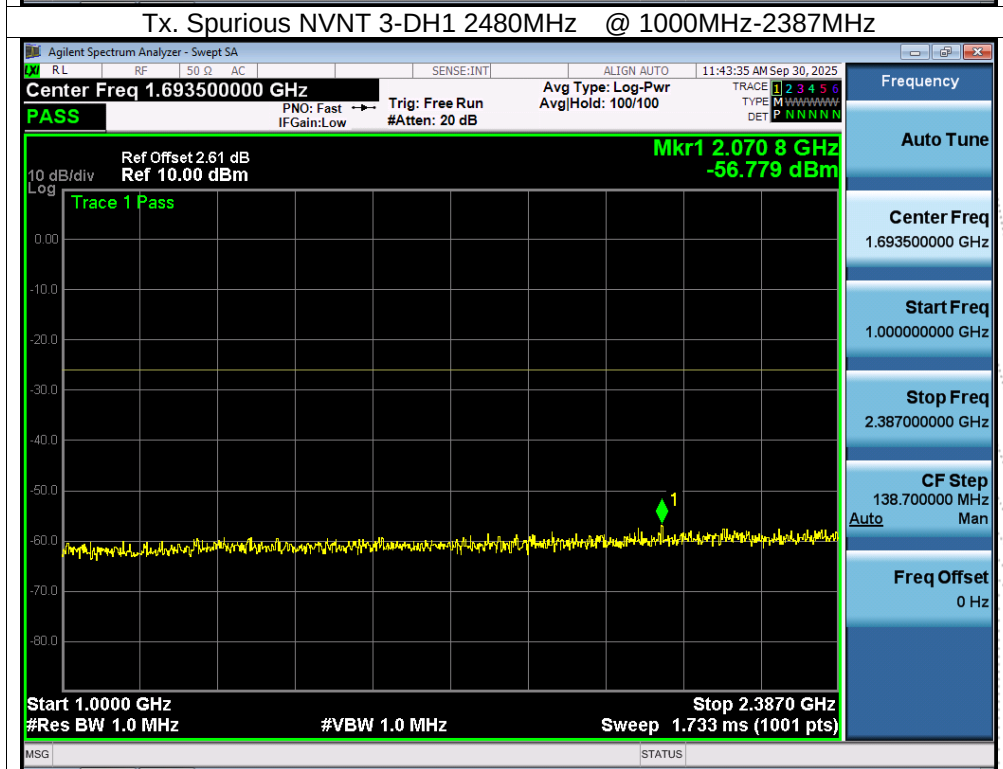
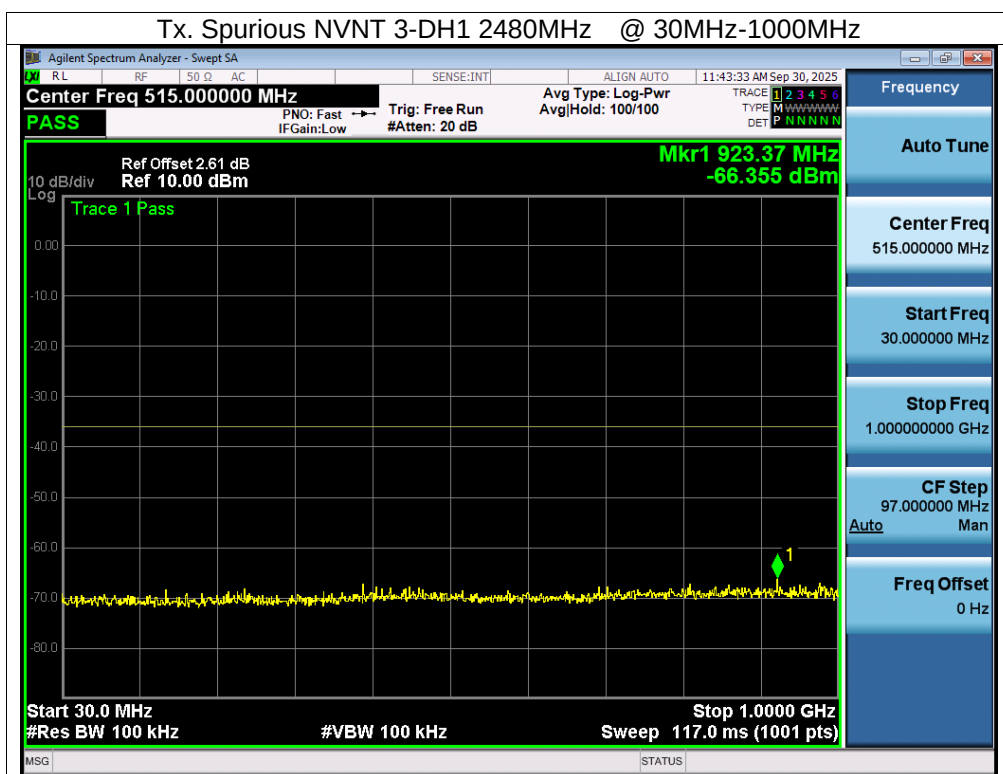


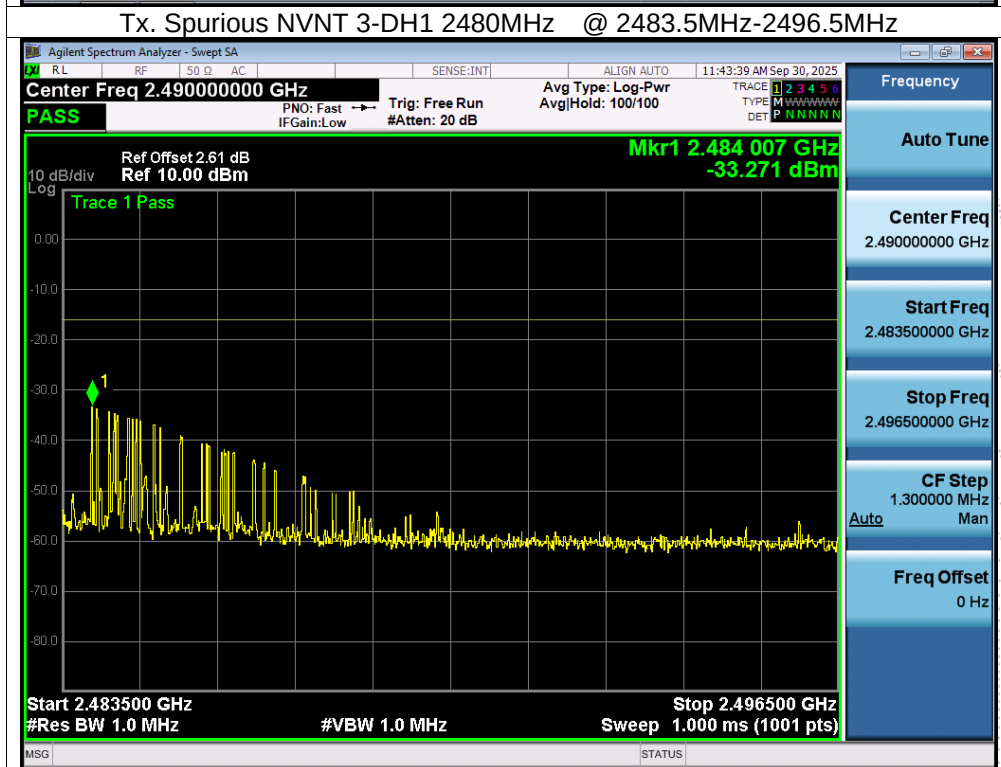
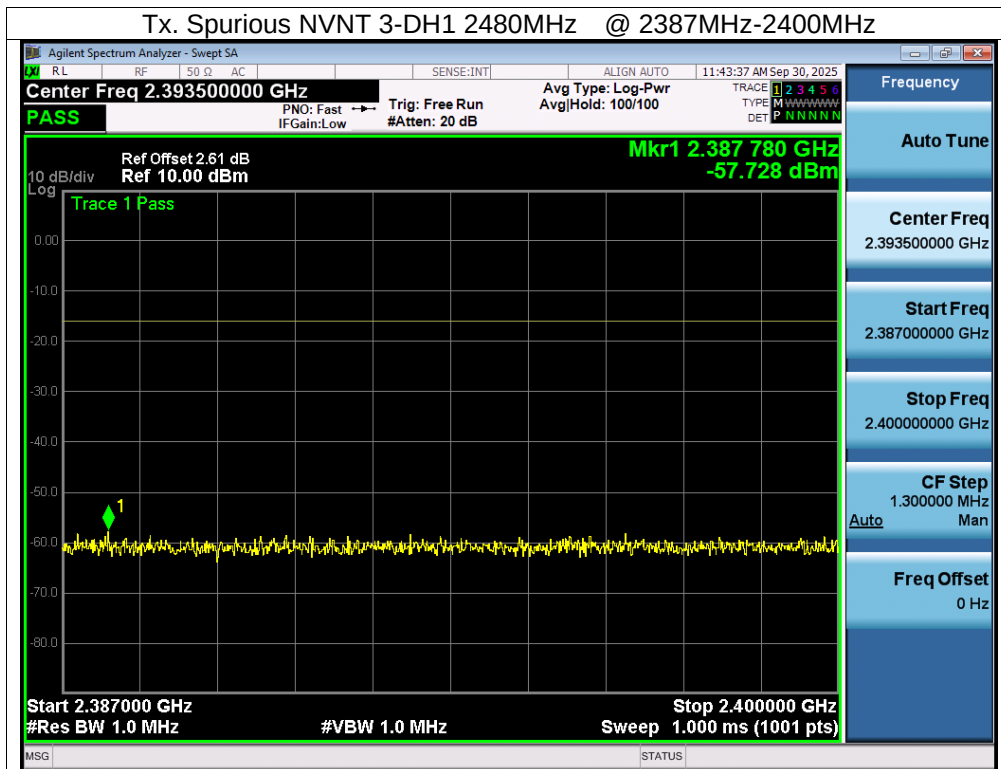


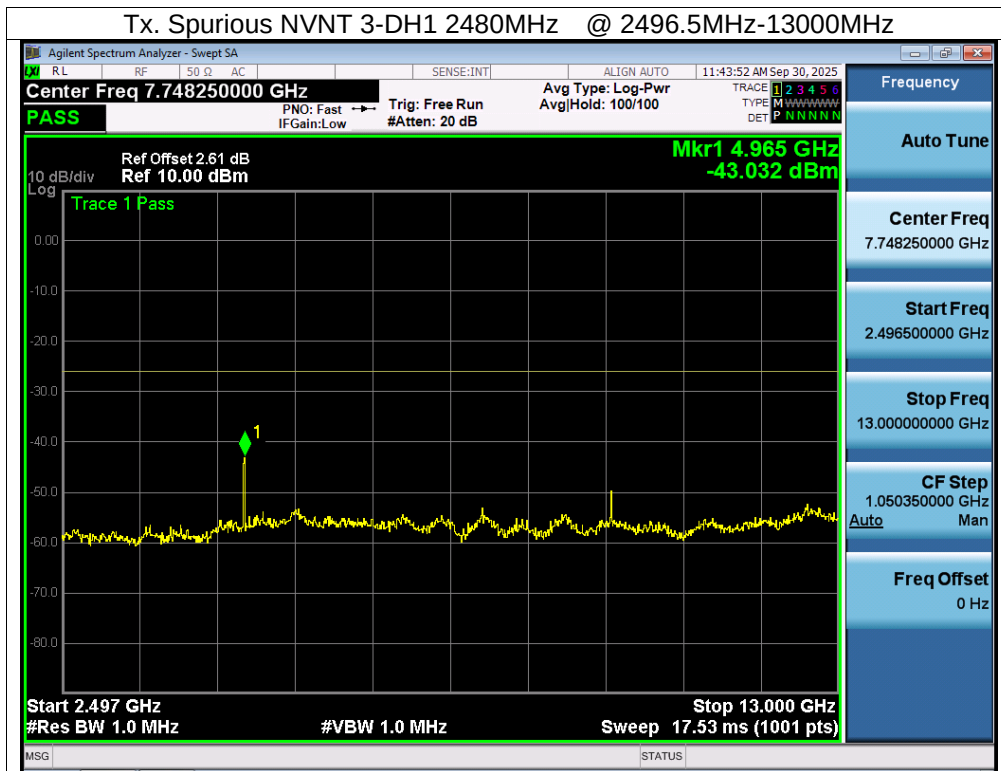






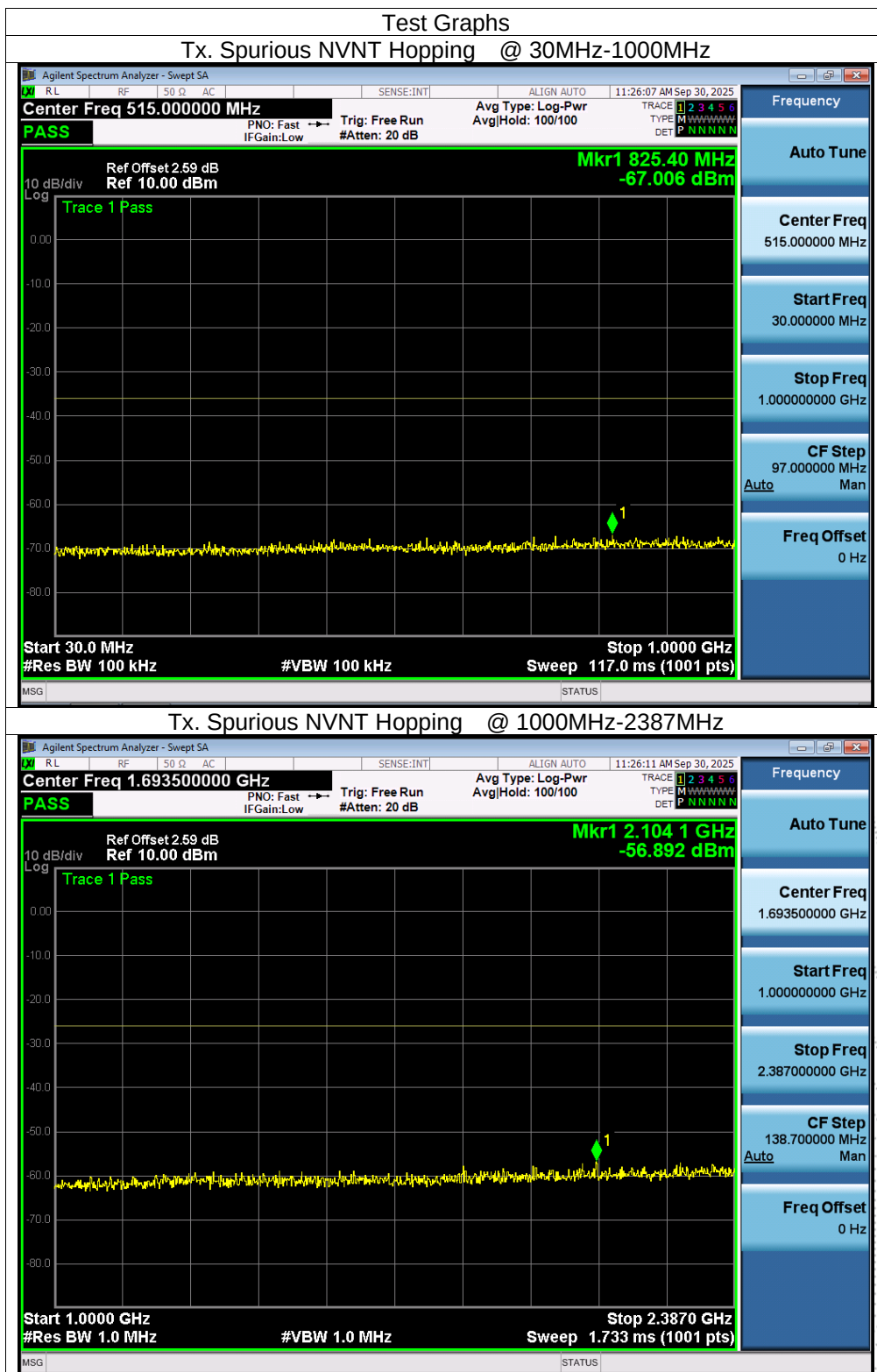


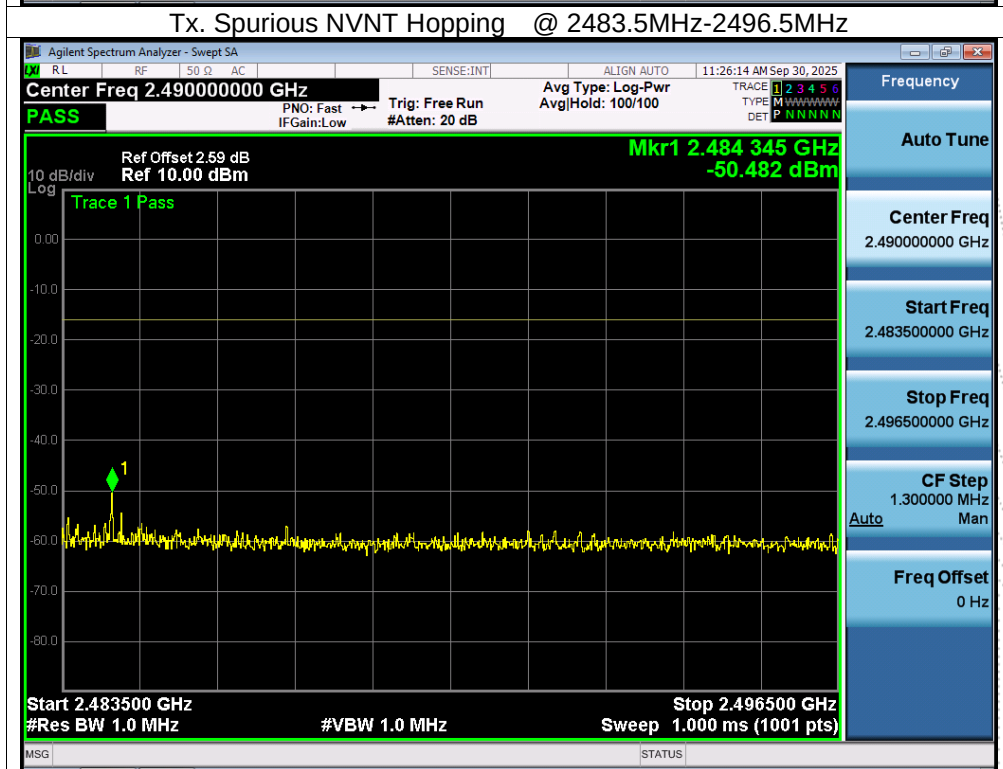
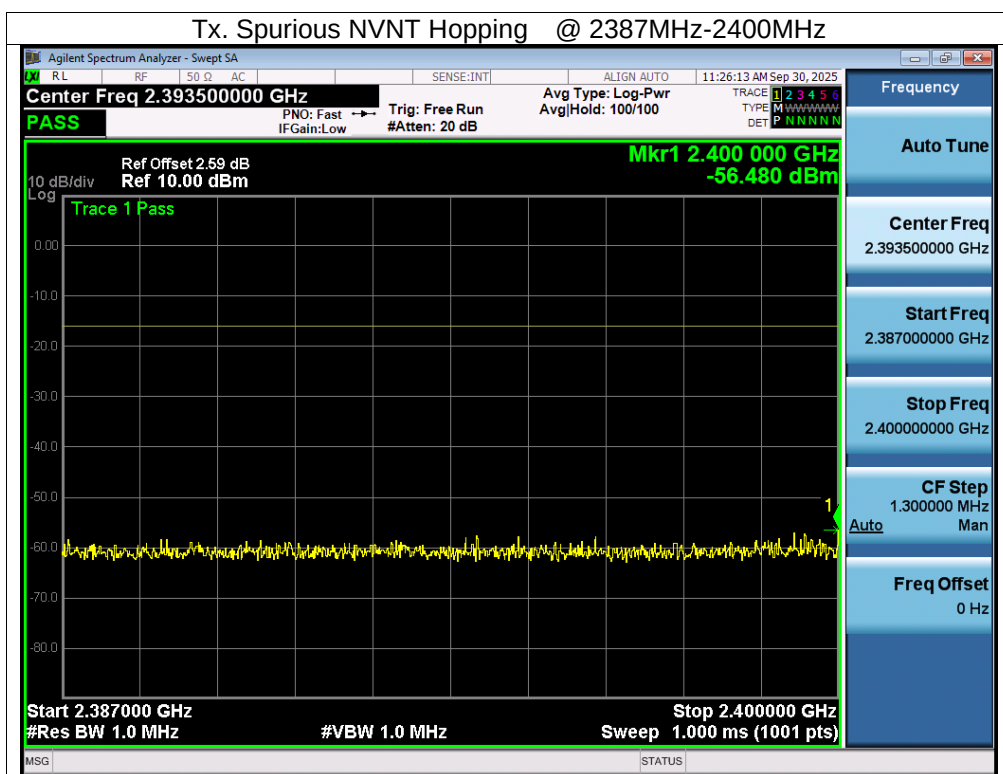


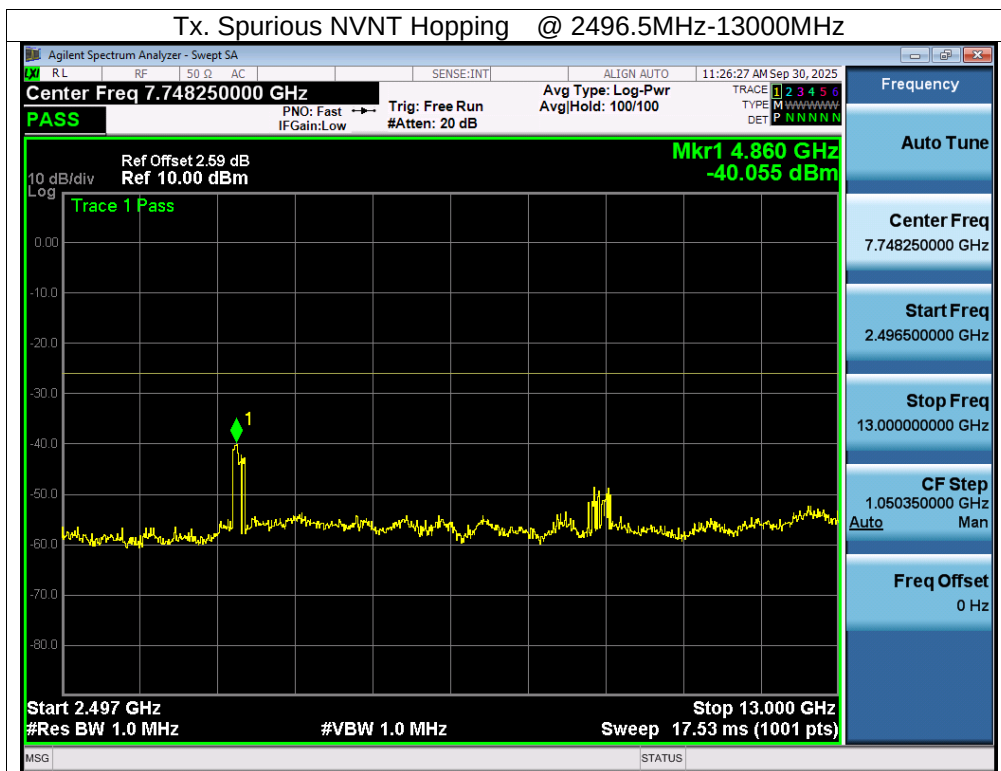


Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V
Test Mode:	Hopping		

Condi- tion	Mode	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	Hopping	30-1000	825.4	-67.01	-36	-36	Pass
NVNT	Hopping	1000-2387	2104.05	-56.89	-26	-26	Pass
NVNT	Hopping	2387-2400	2400	-56.48	-16	-16	Pass
NVNT	Hopping	2483.5-2496.5	2484.34	-50.48	-16	-16	Pass
NVNT	Hopping	2496.5-13000	4859.79	-40.06	-26	-26	Pass



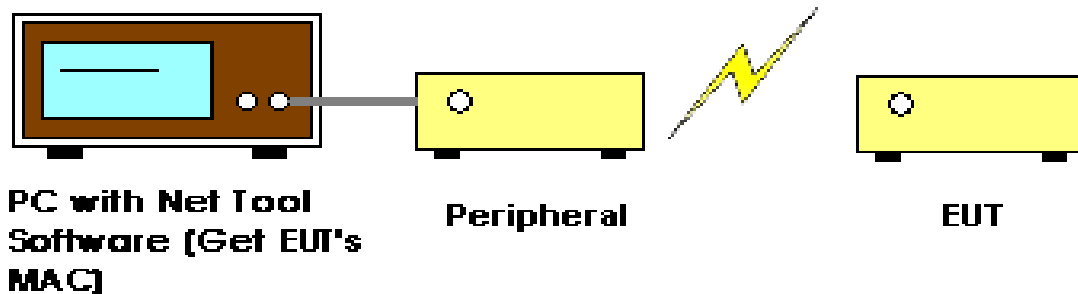




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11. Radio Interference Prevention Capability Measurement

11.1 Block Diagram Of Test Setup



11.2 Limit

Item	Limits
Identification code	≥ 48 bits

11.3 Measuring Instruments And Setting

Item	Limits
MAC IP List	MAC Scan

11.4 Test Procedure

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

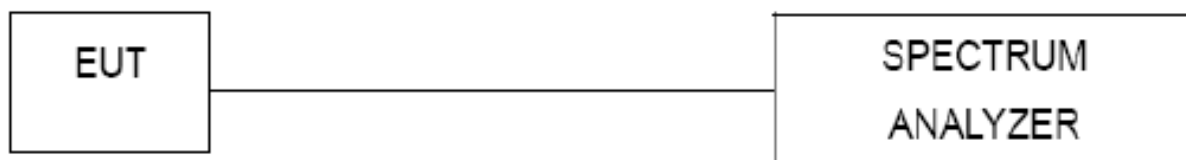
11.5 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

1. Bluetooth Device Address: 53:60:9D:41:B7:31
2. Test result PASS

12. Dwell Time

12.1 Block Diagram Of Test Setup



12.2 Limit

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

12.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

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

12.4 Test Procedure

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

12.5 Test Result

Left

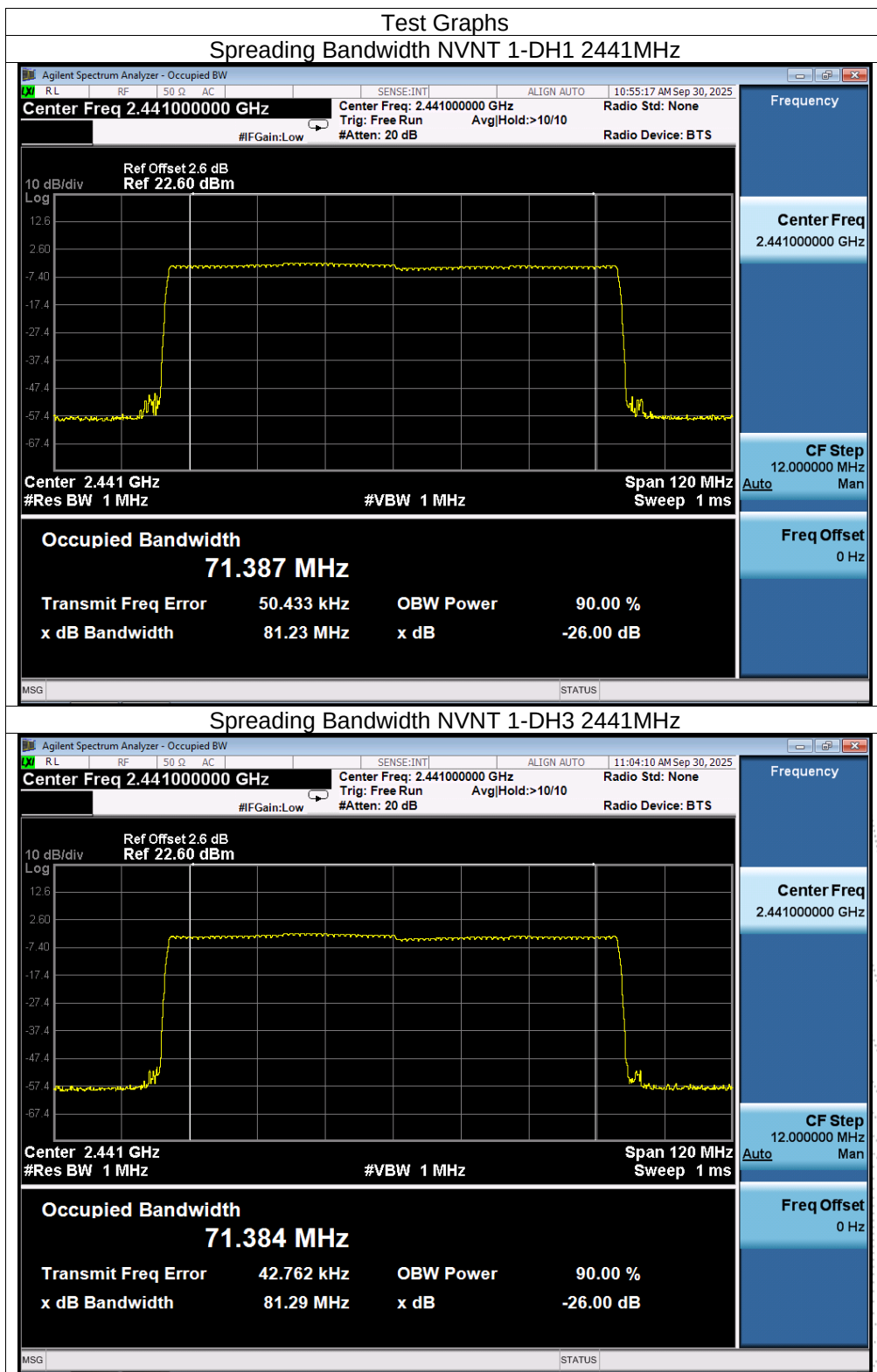
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

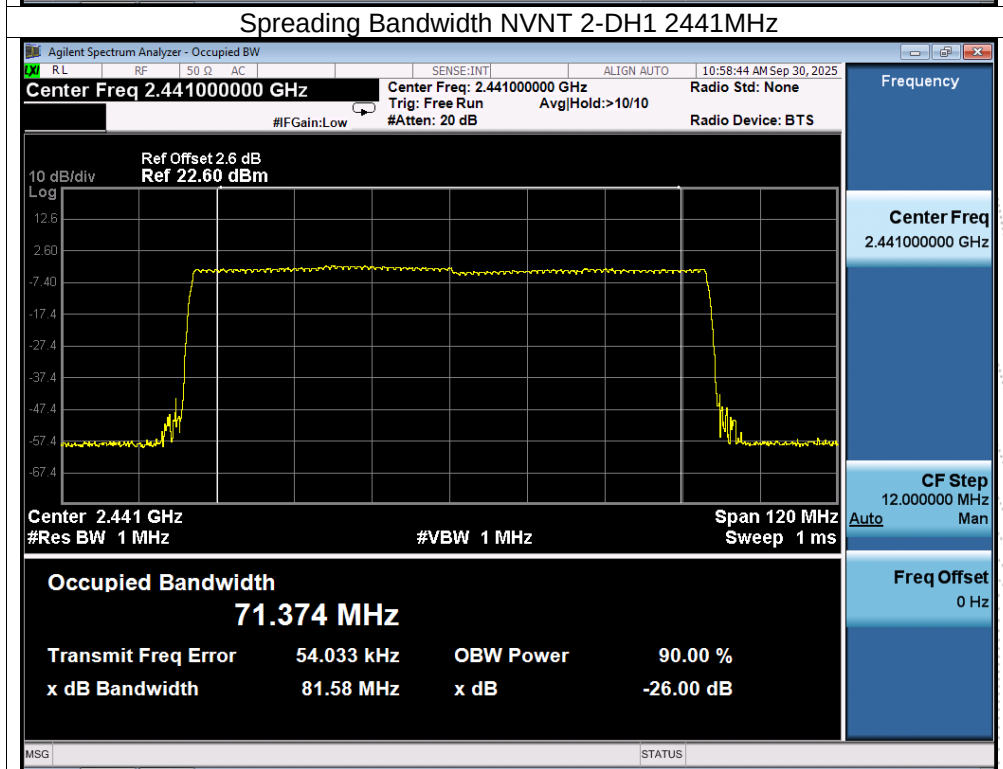
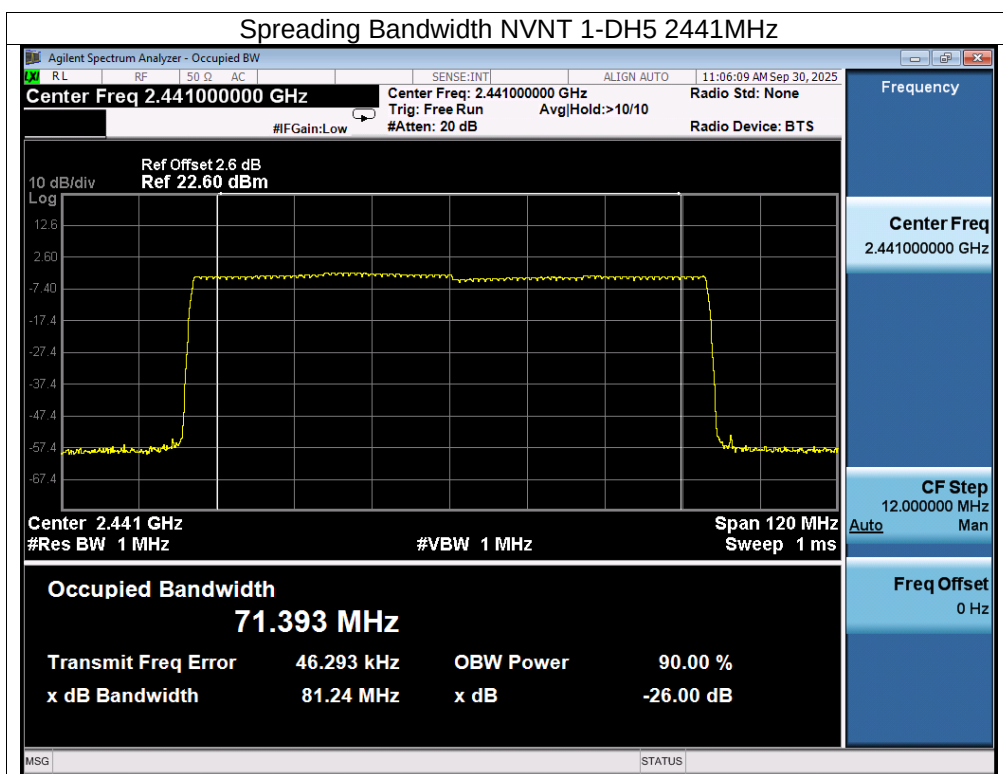
Condition	Mode	Frequency (MHz)	Spreading Bandwidth (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	71.387	0.4	115.2	288	28554.8	400	Pass
NVNT	1-DH3	2441	71.384	1.656	238.464	144	28553.6	400	Pass
NVNT	1-DH5	2441	71.393	2.905	278.88	96	28557.2	400	Pass
NVNT	2-DH1	2441	71.37	0.387	112.23	290	28548	400	Pass
NVNT	2-DH3	2441	71.484	1.66	232.4	140	28593.6	400	Pass
NVNT	2-DH5	2441	71.368	2.887	285.813	99	28547.2	400	Pass
NVNT	3-DH1	2441	71.461	0.41	118.49	289	28584.4	400	Pass
NVNT	3-DH3	2441	71.496	1.662	239.328	144	28598.4	400	Pass
NVNT	3-DH5	2441	71.505	2.913	297.126	102	28602	400	Pass

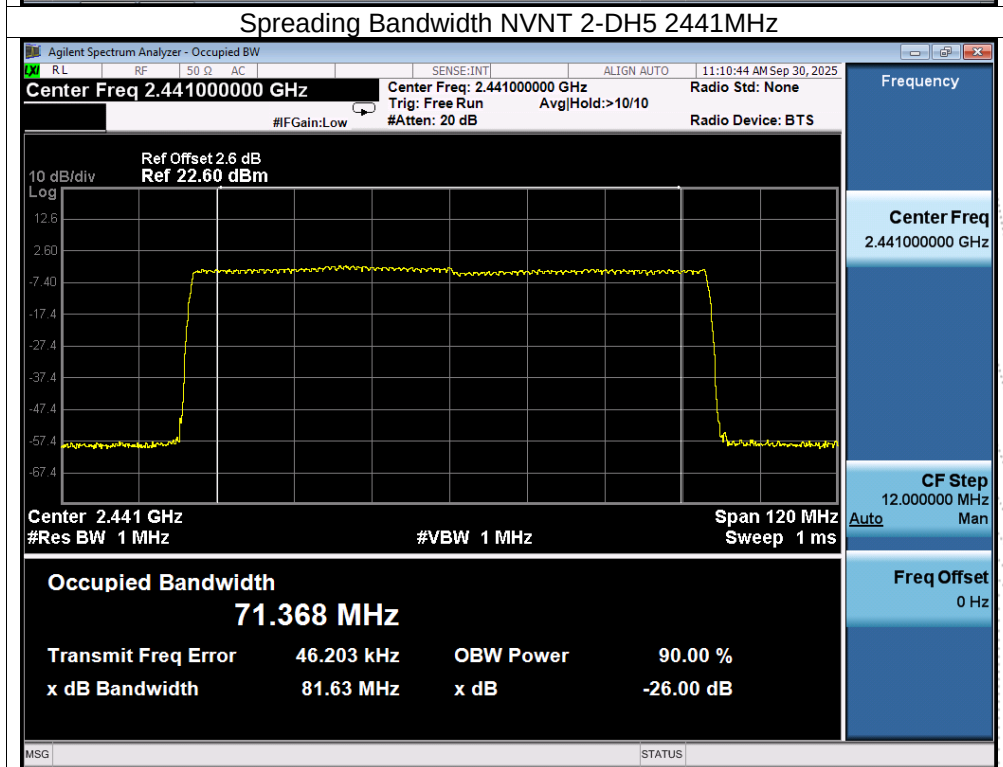
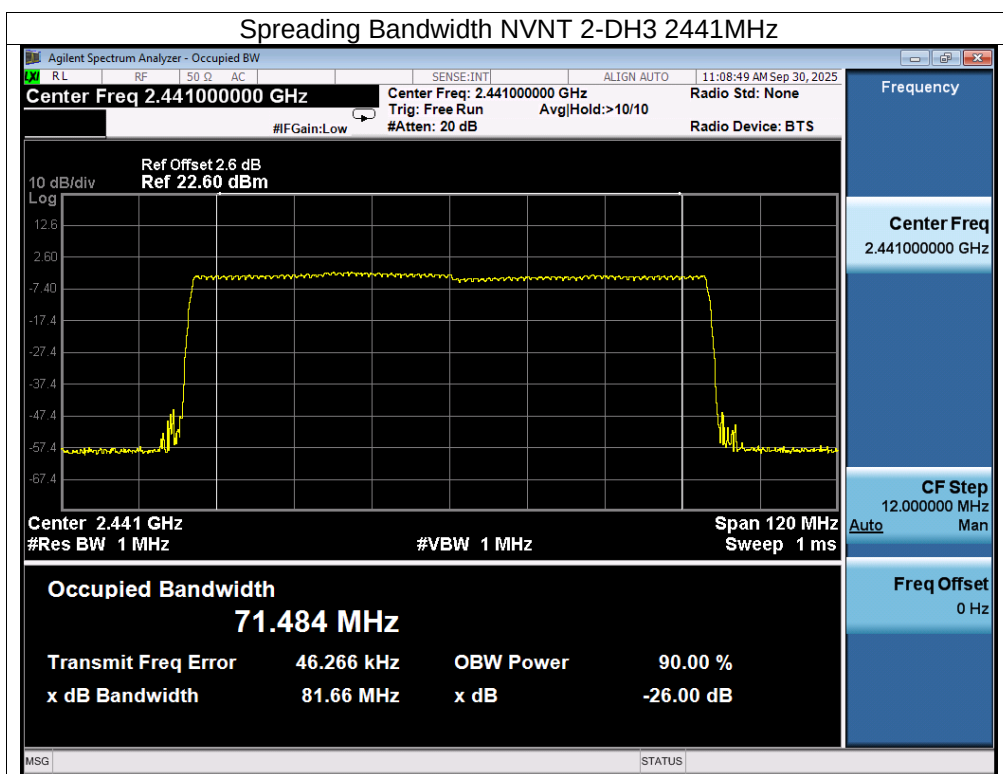
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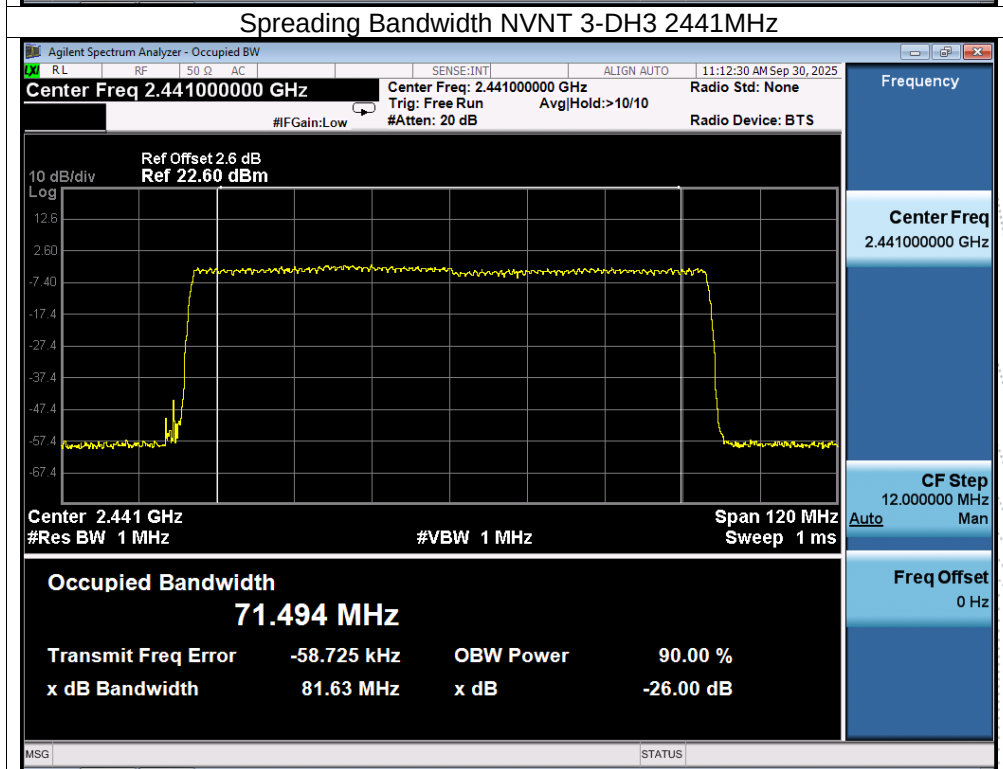
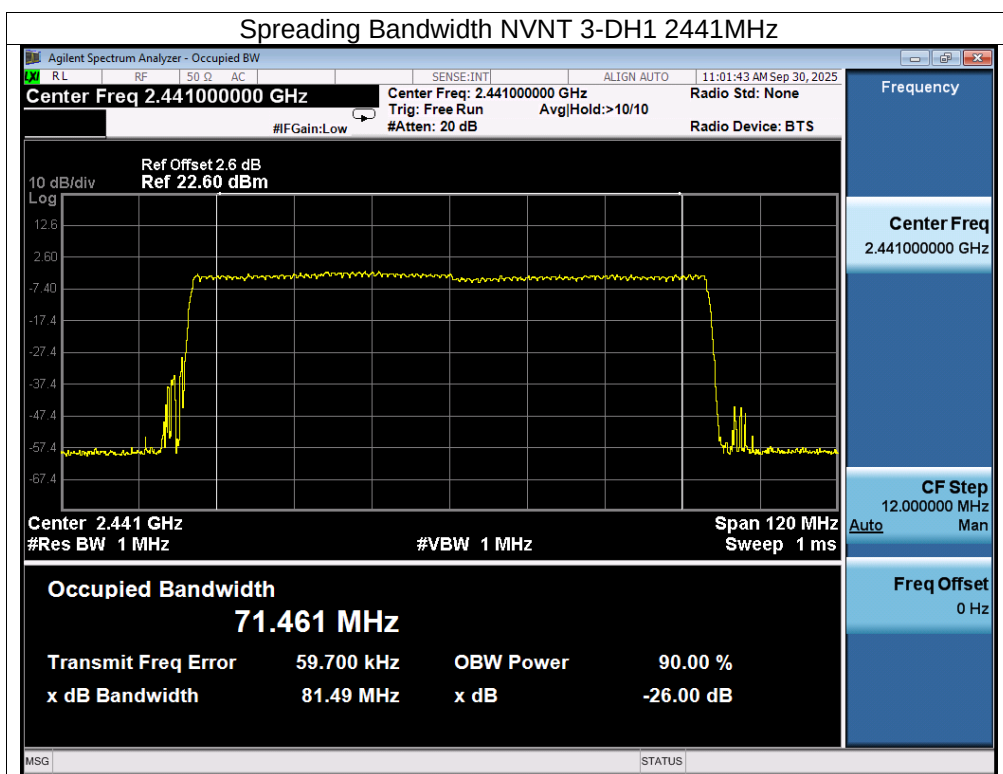
Period Time= Spreading Bandwidth *0.4

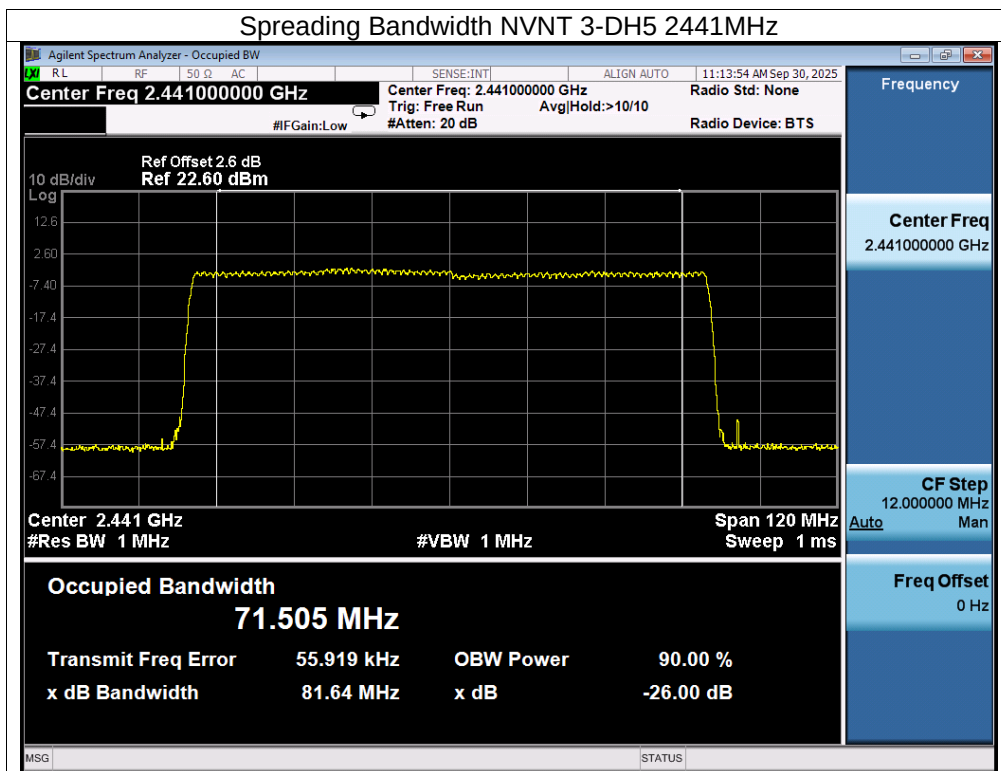
Dwell Time= Pulse Time* Burst Count

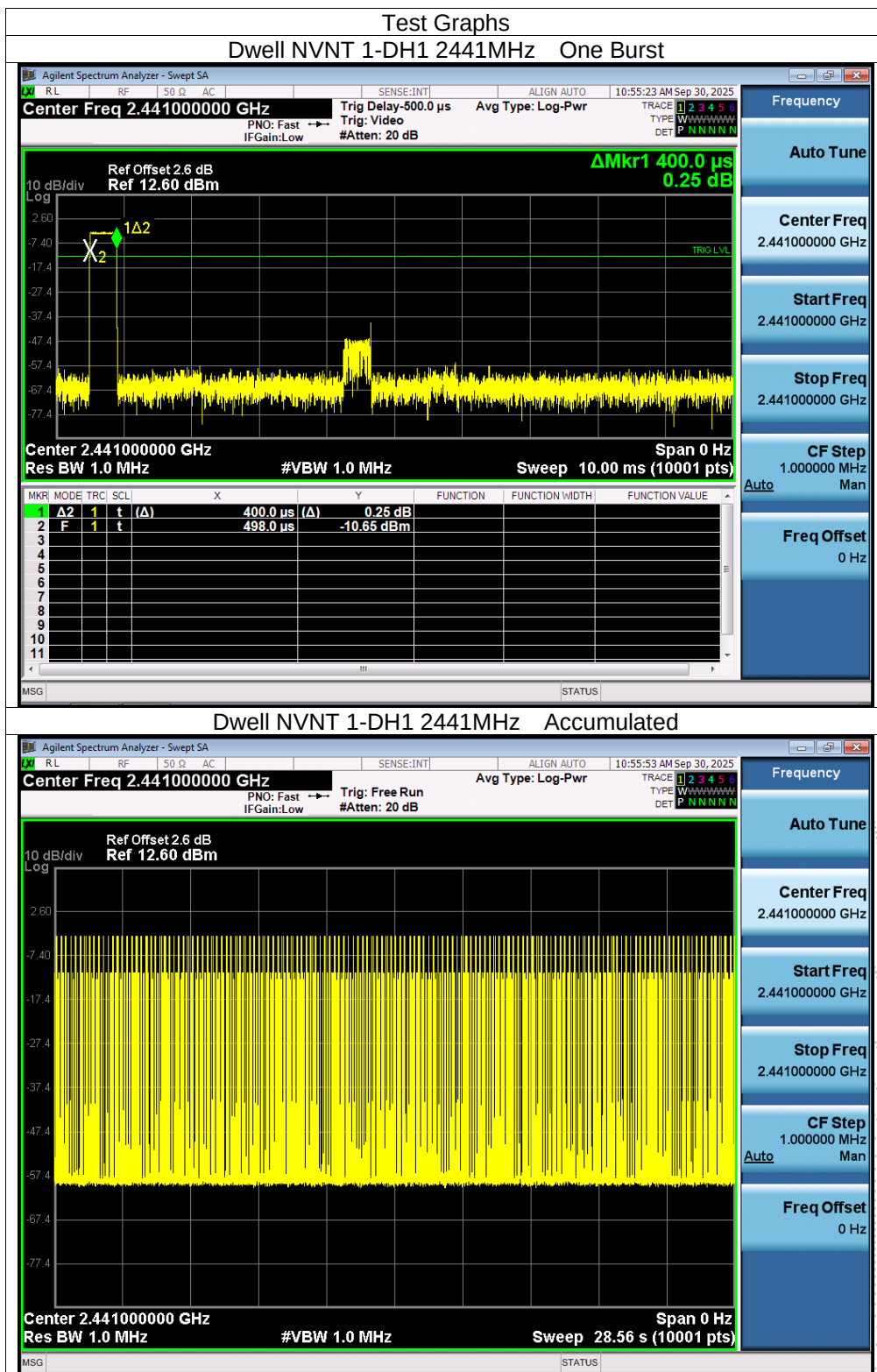


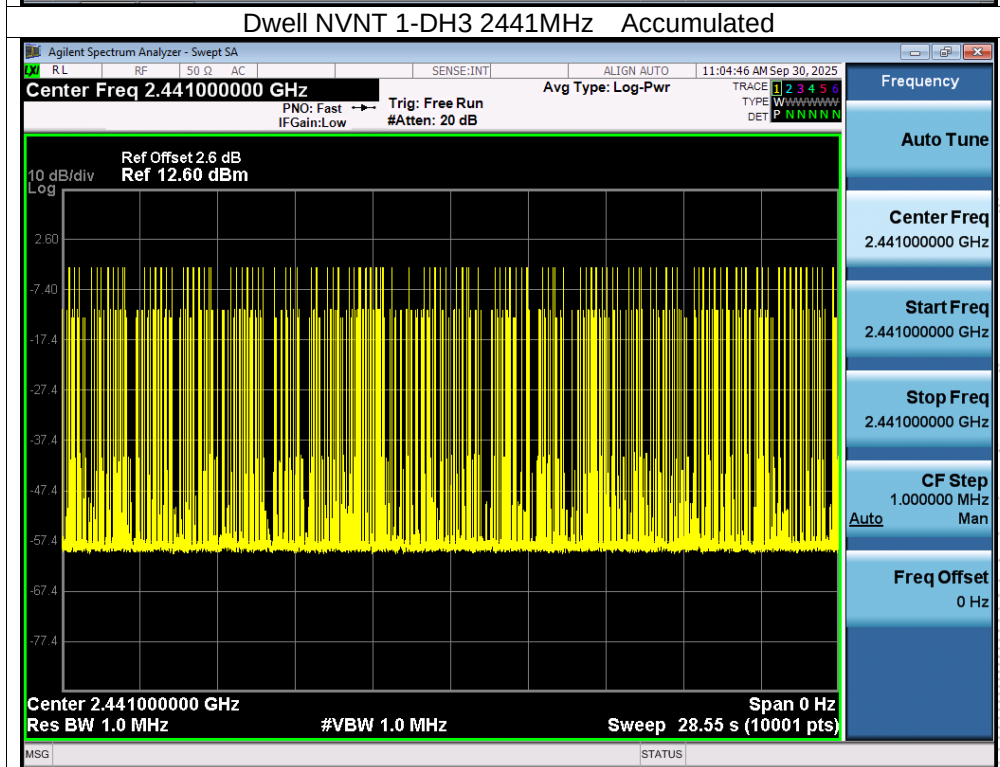
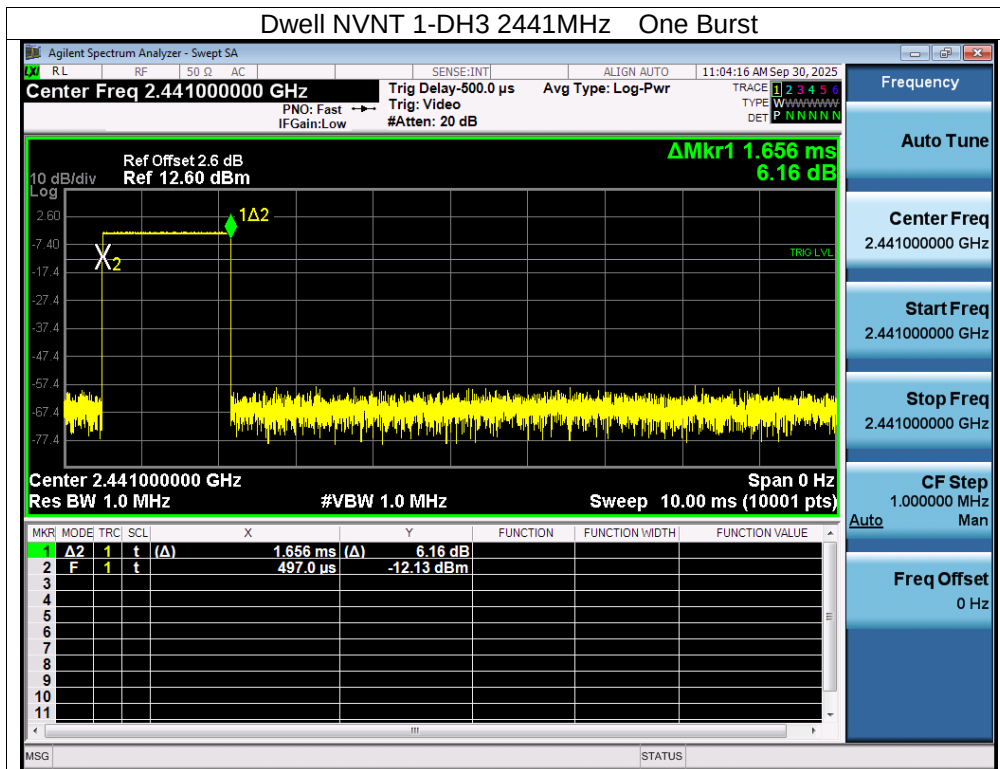


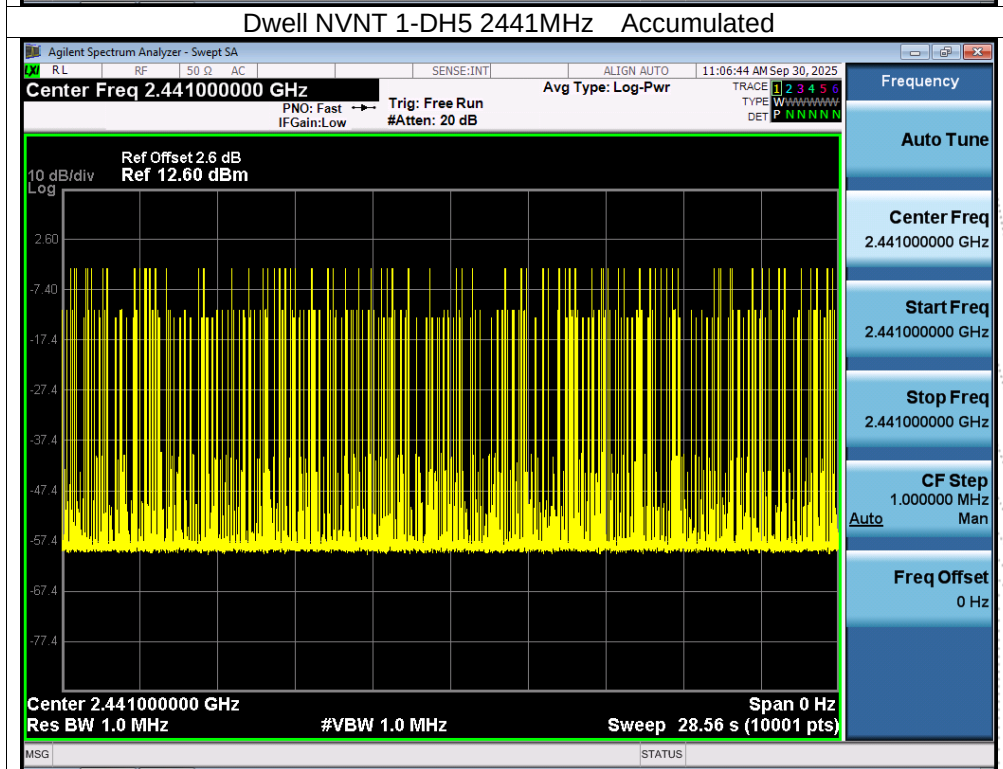
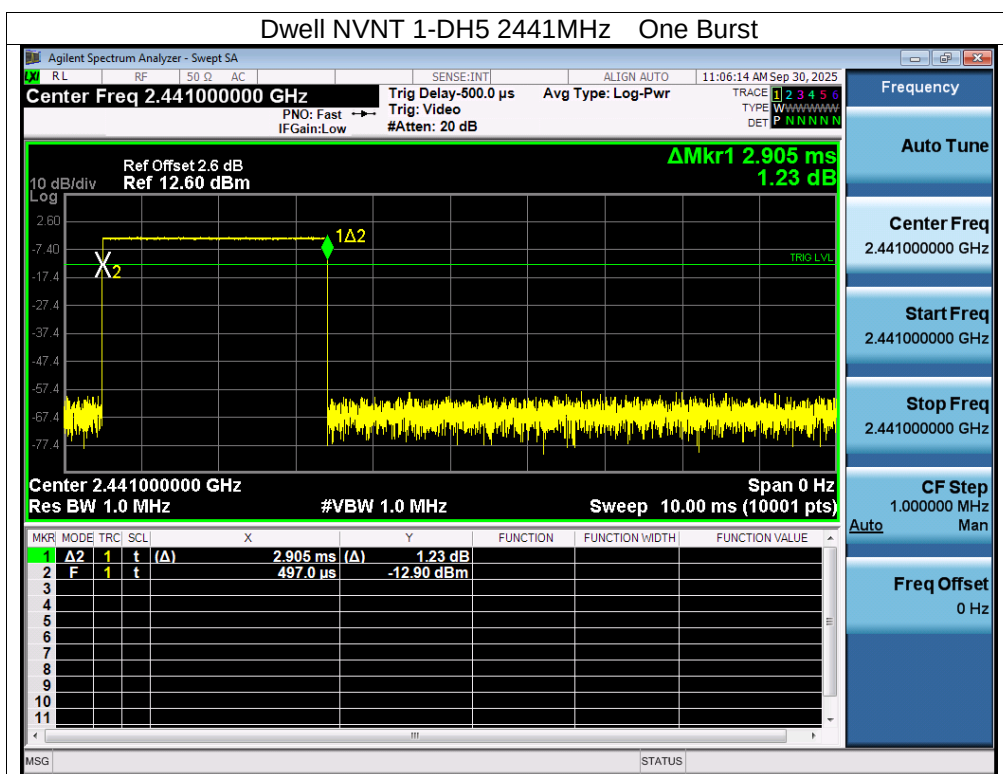


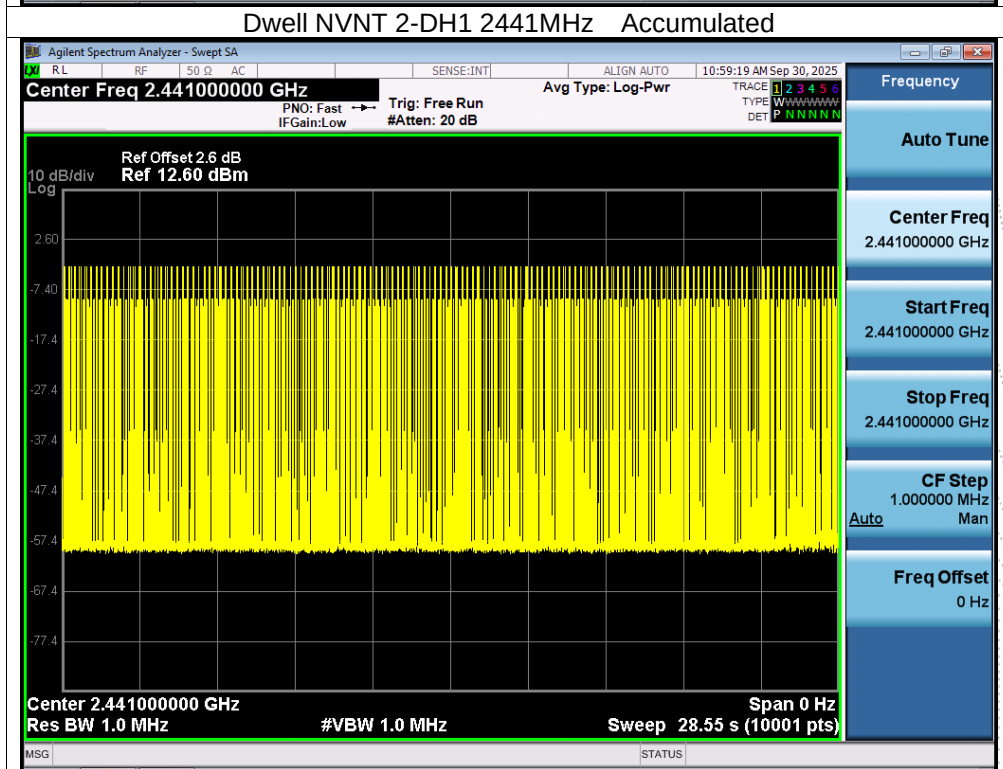
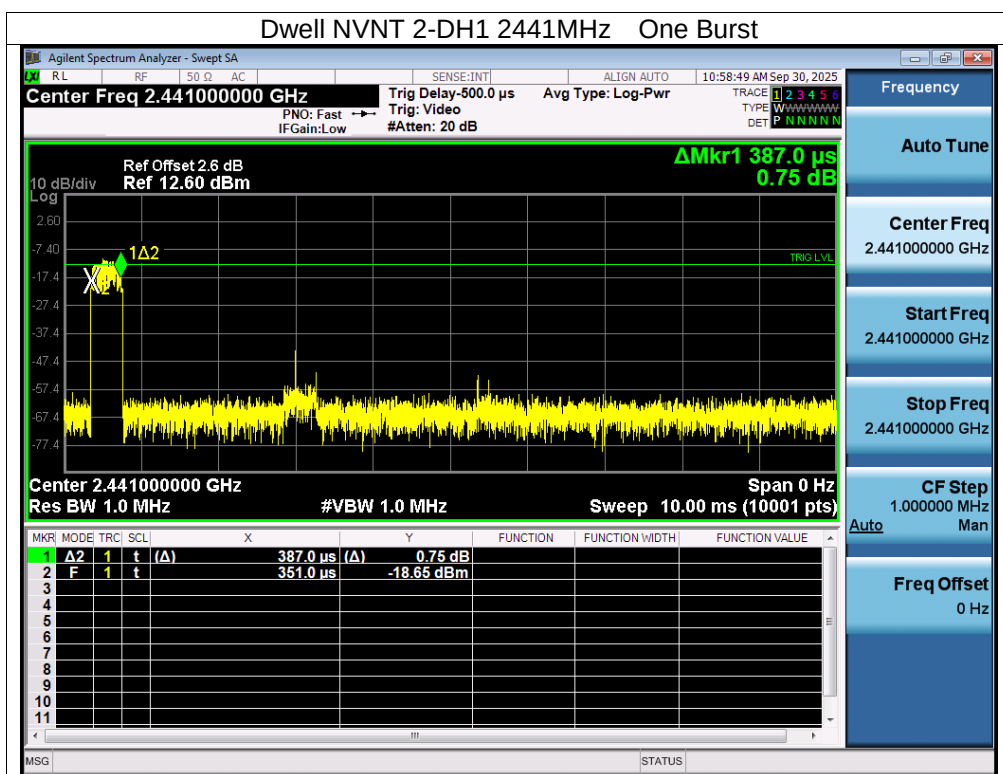


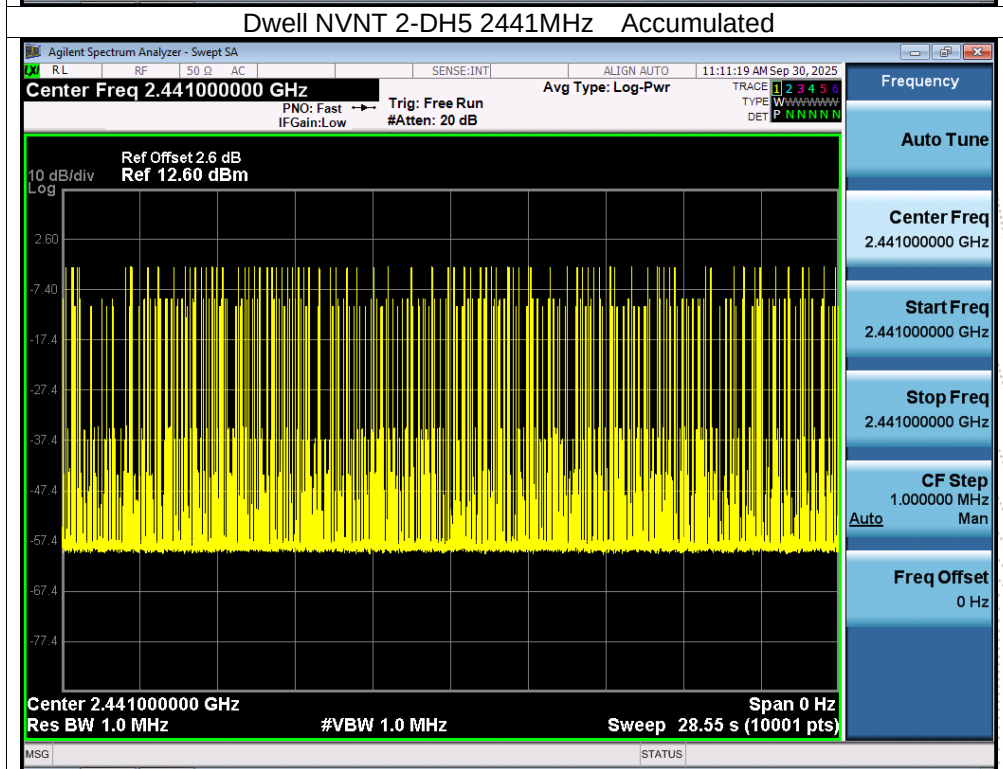
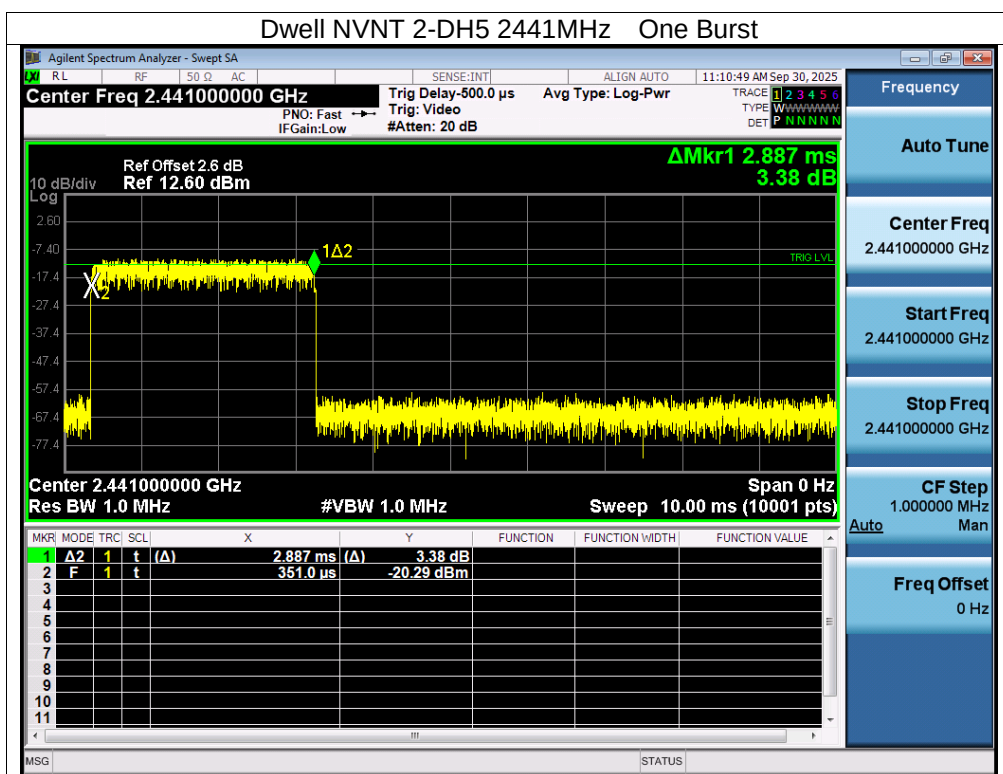


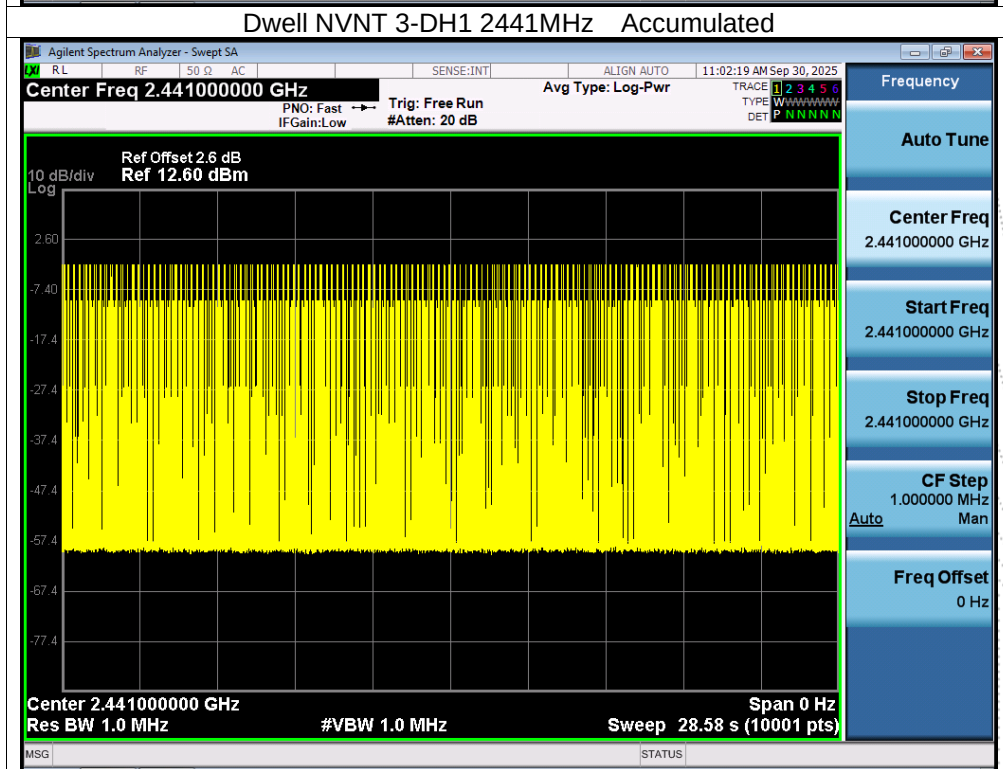
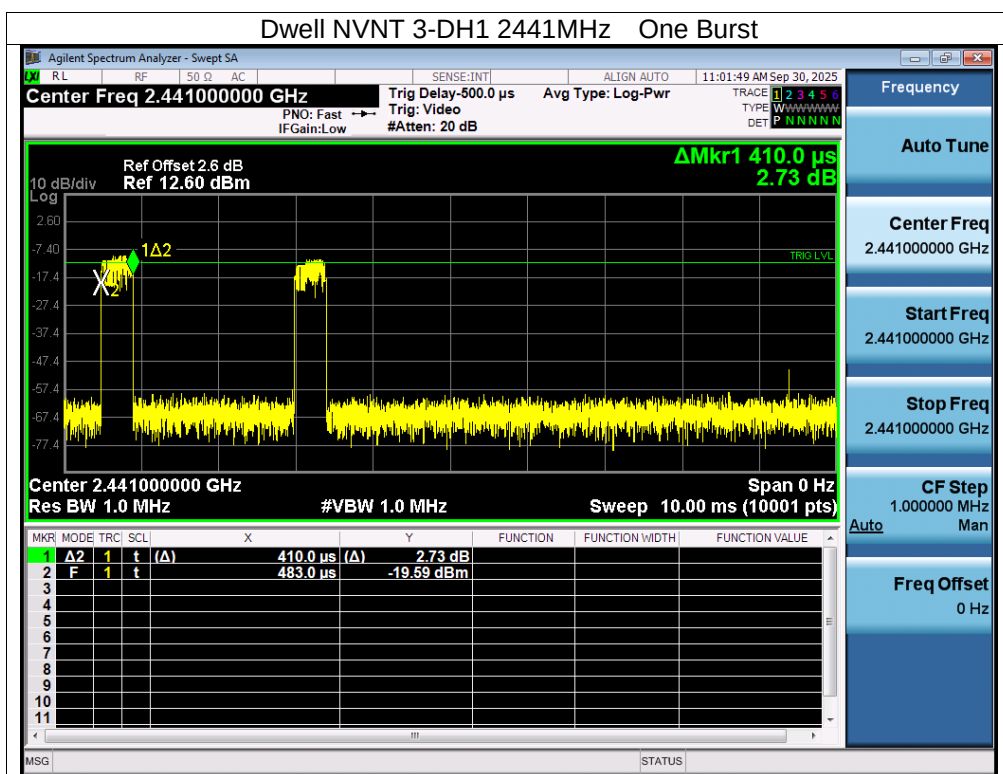


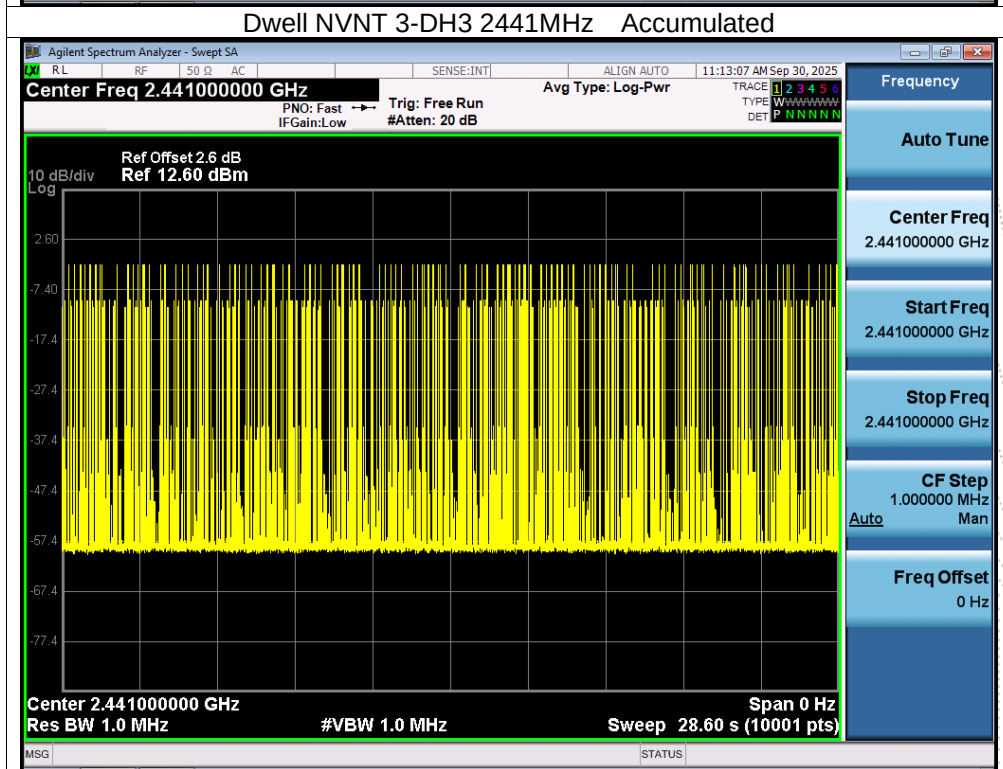
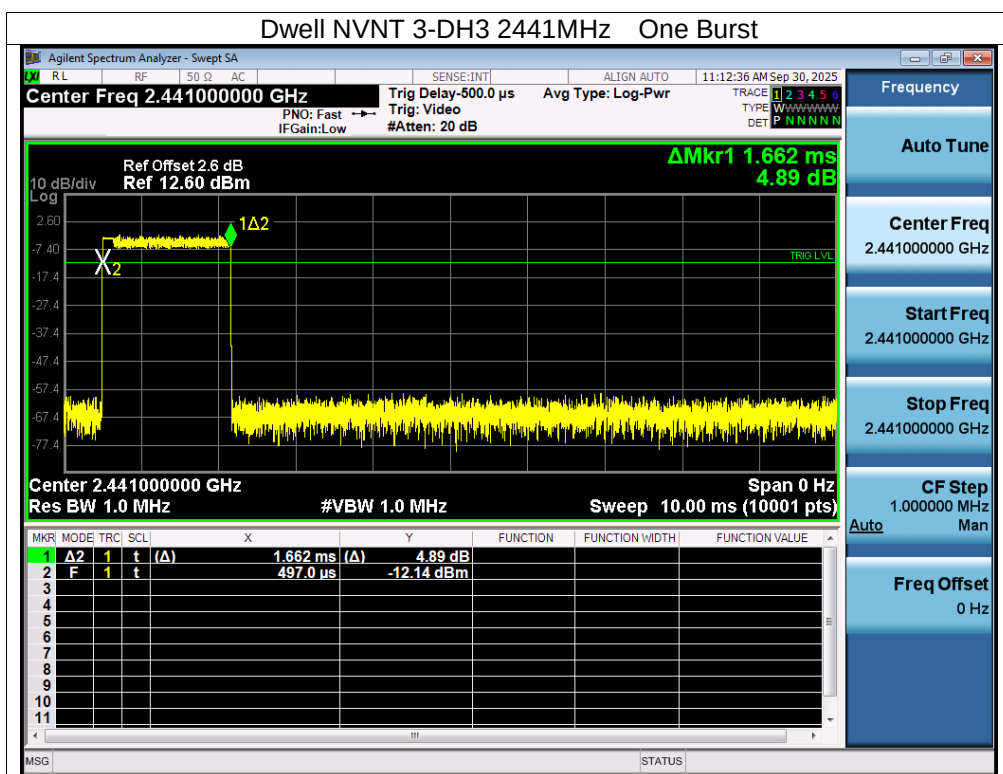


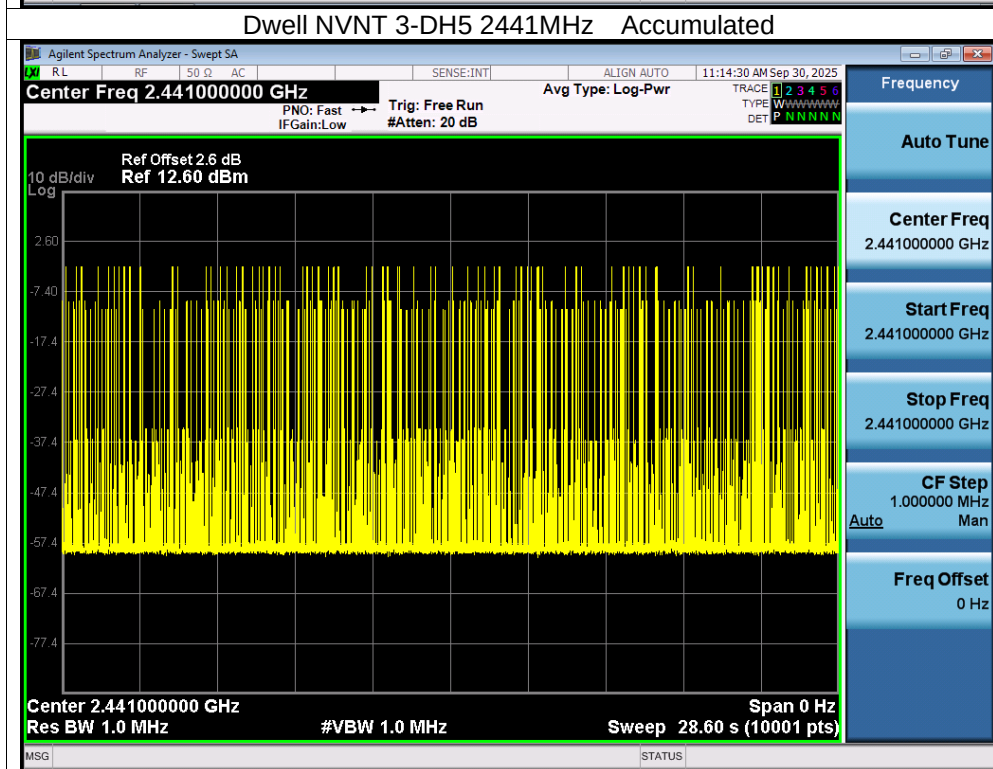
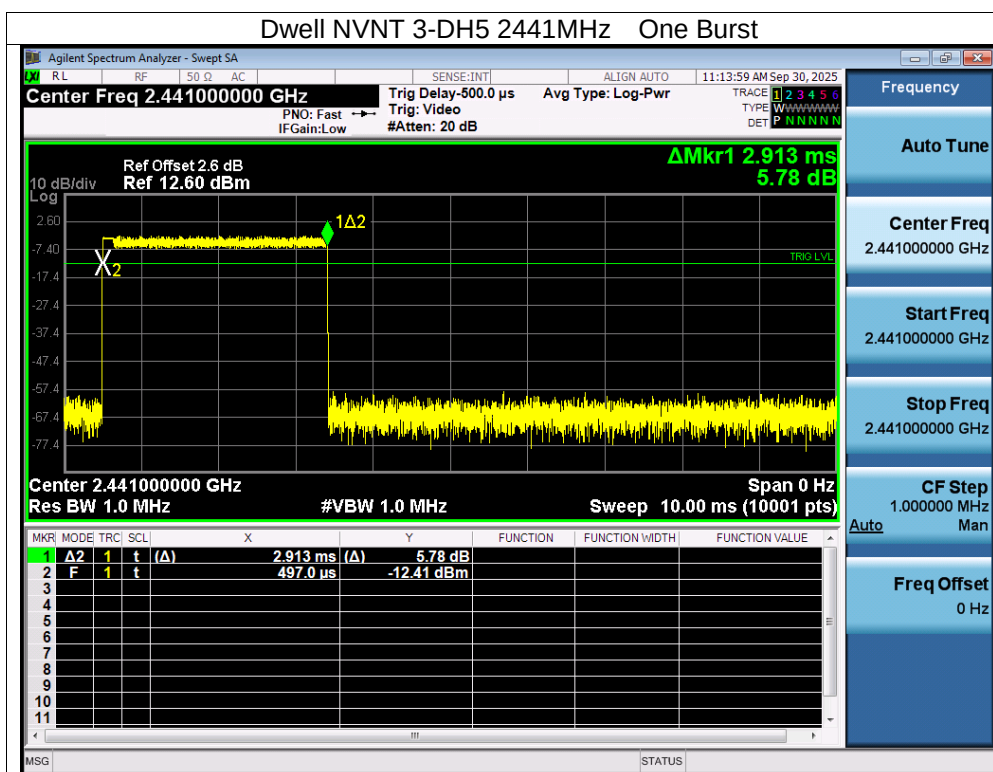












Right

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

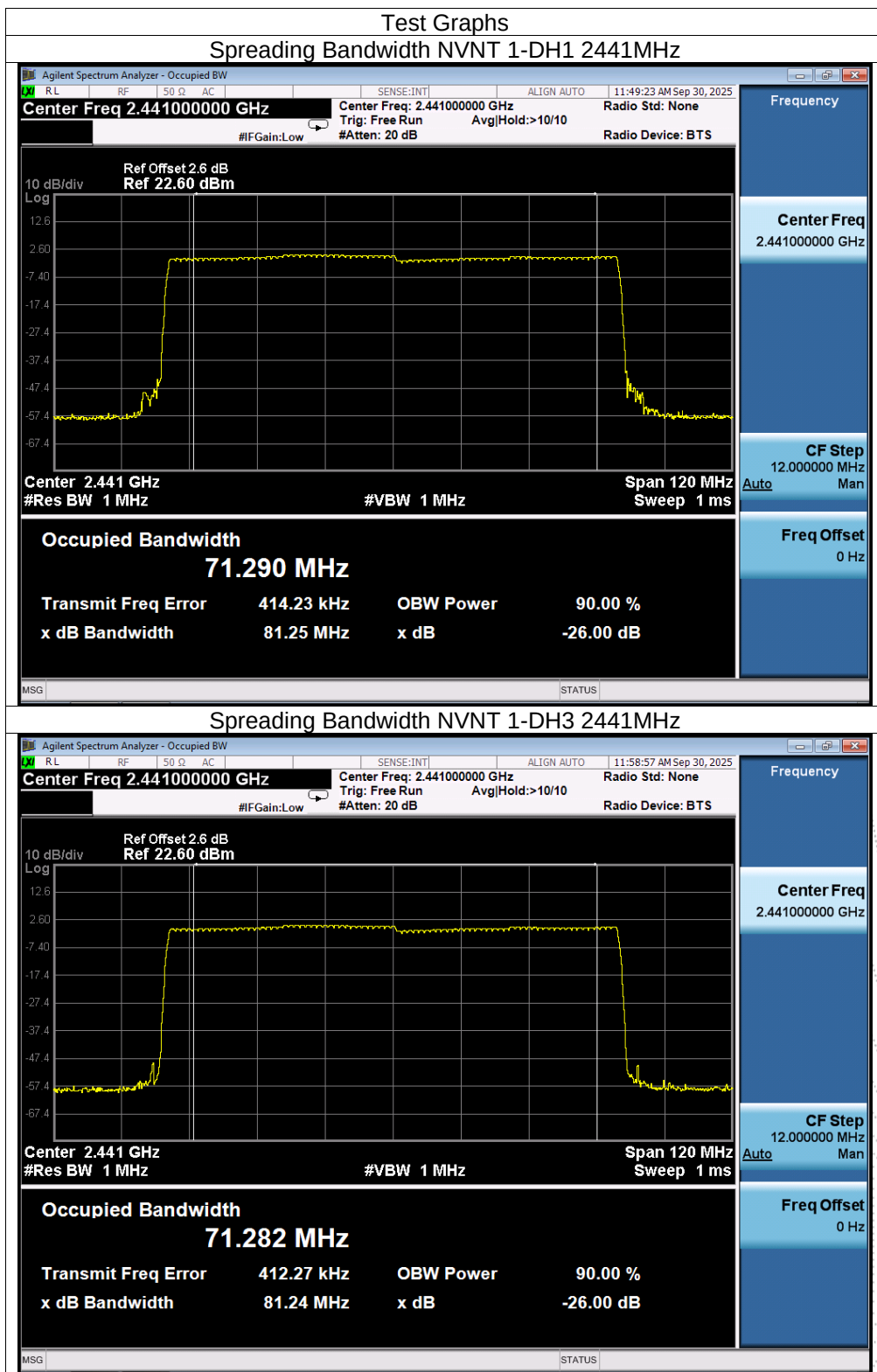
Condition	Mode	Fre- quency (MHz)	Spreading Bandwith (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	71.29	0.398	114.624	288	28516	400	Pass
NVNT	1-DH3	2441	71.282	1.654	248.1	150	28512.8	400	Pass
NVNT	1-DH5	2441	71.293	2.904	264.264	91	28517.2	400	Pass
NVNT	2-DH1	2441	71.304	0.41	117.67	287	28521.6	400	Pass
NVNT	2-DH3	2441	71.382	1.659	233.919	141	28552.8	400	Pass
NVNT	2-DH5	2441	71.344	2.887	268.491	93	28537.6	400	Pass
NVNT	3-DH1	2441	71.353	0.412	119.068	289	28541.2	400	Pass
NVNT	3-DH3	2441	71.358	1.661	255.794	154	28543.2	400	Pass
NVNT	3-DH5	2441	71.427	2.913	267.996	92	28570.8	400	Pass

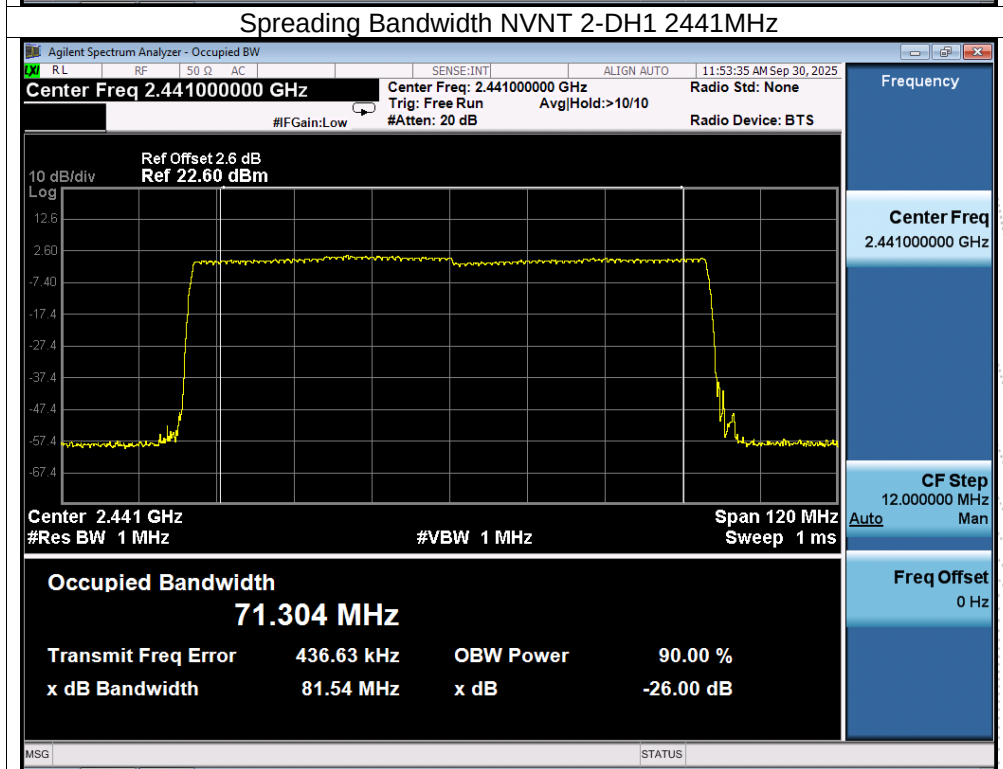
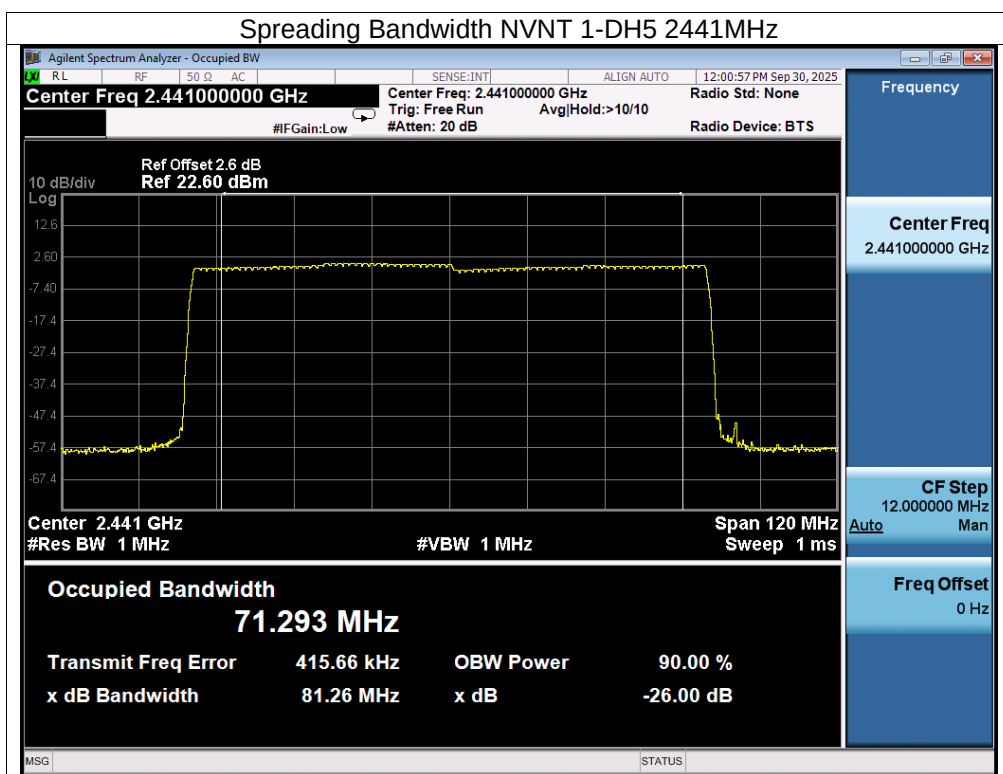
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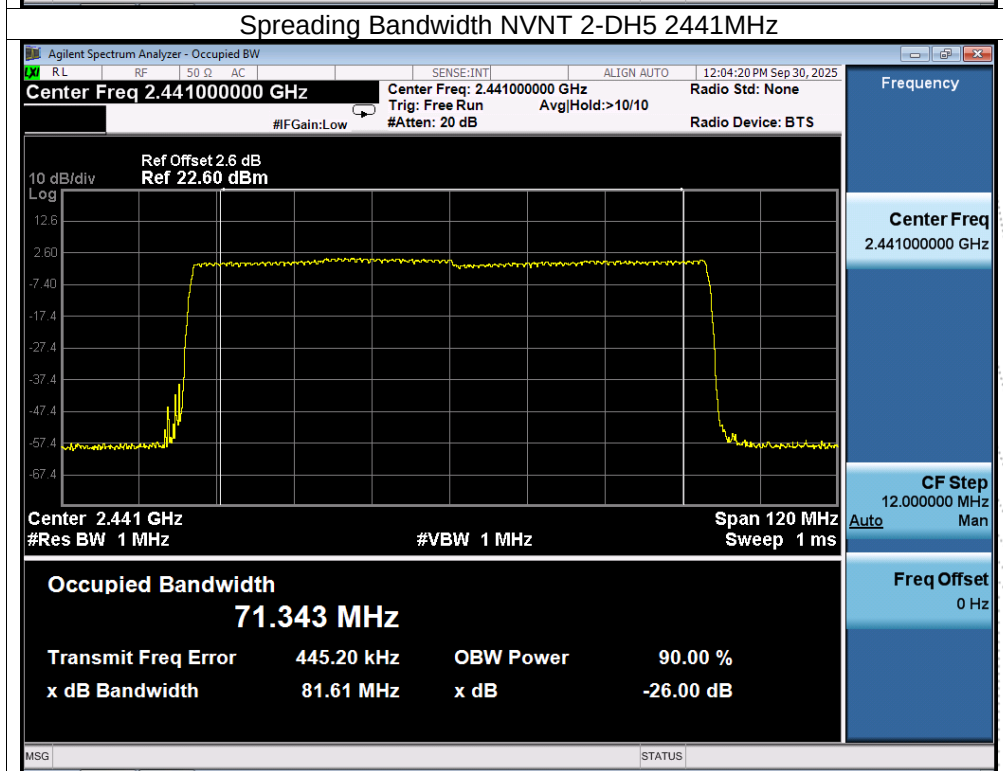
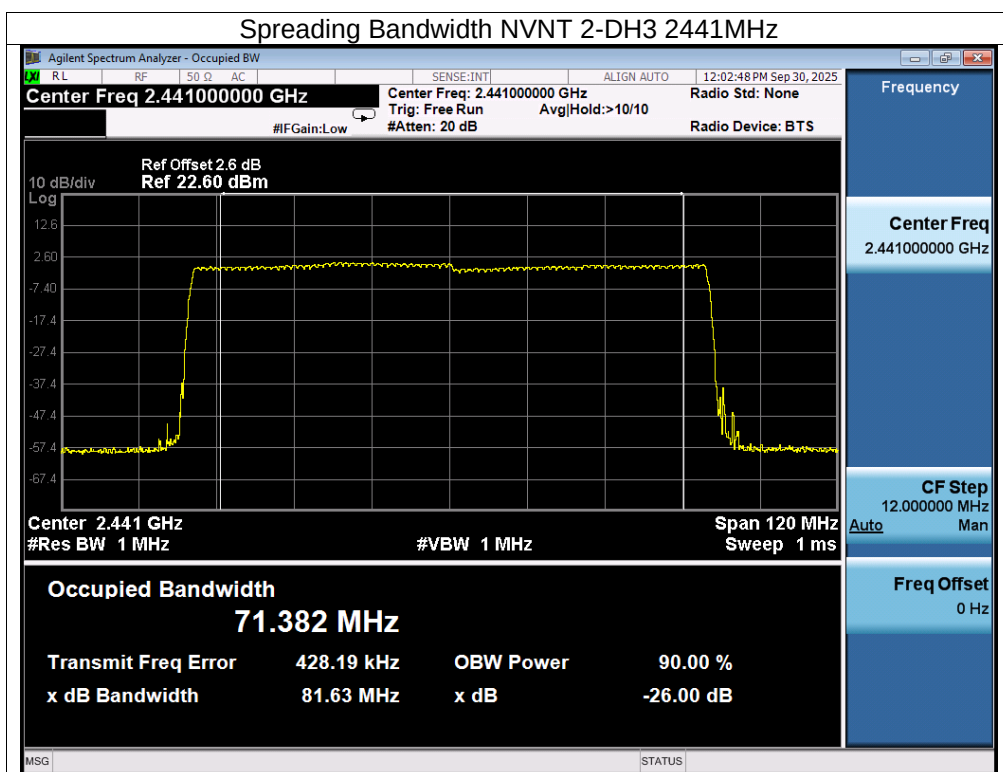
Period Time= Spreading Bandwidth *0.4

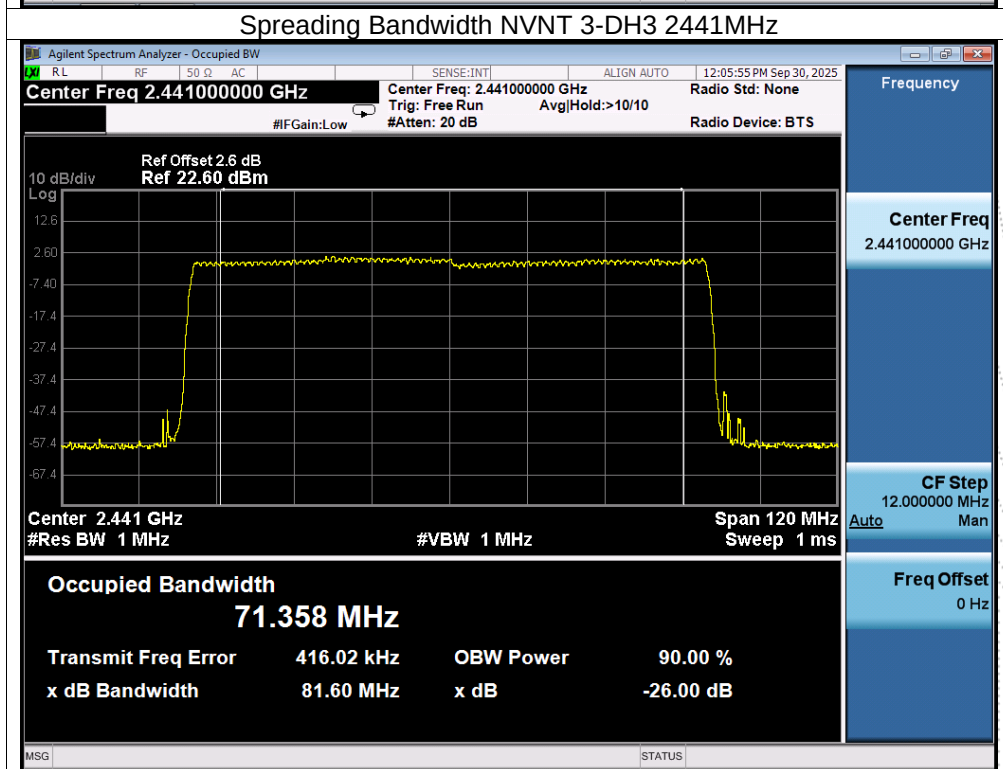
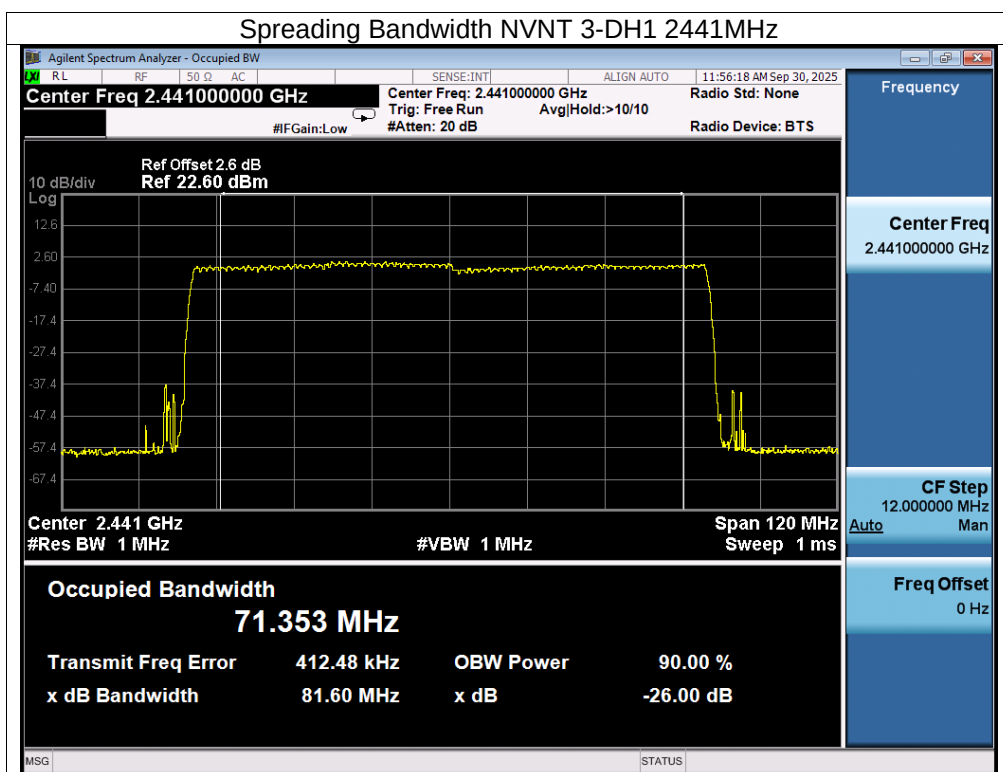
Dwell Time= Pulse Time* Burst Count

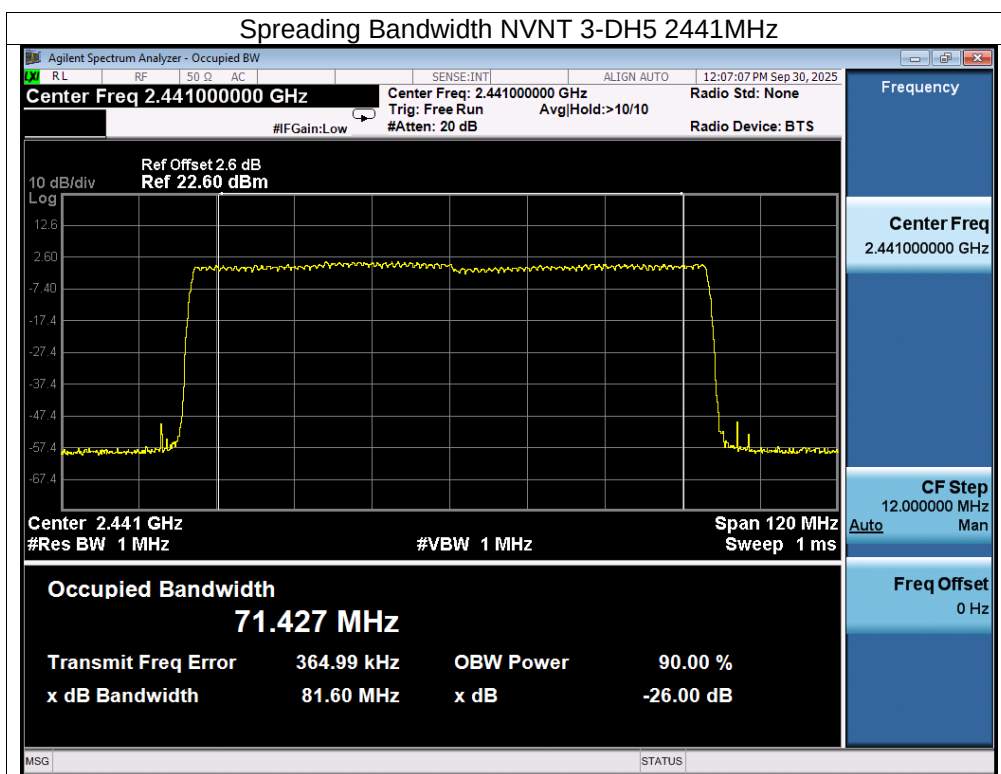
C.O.LTH

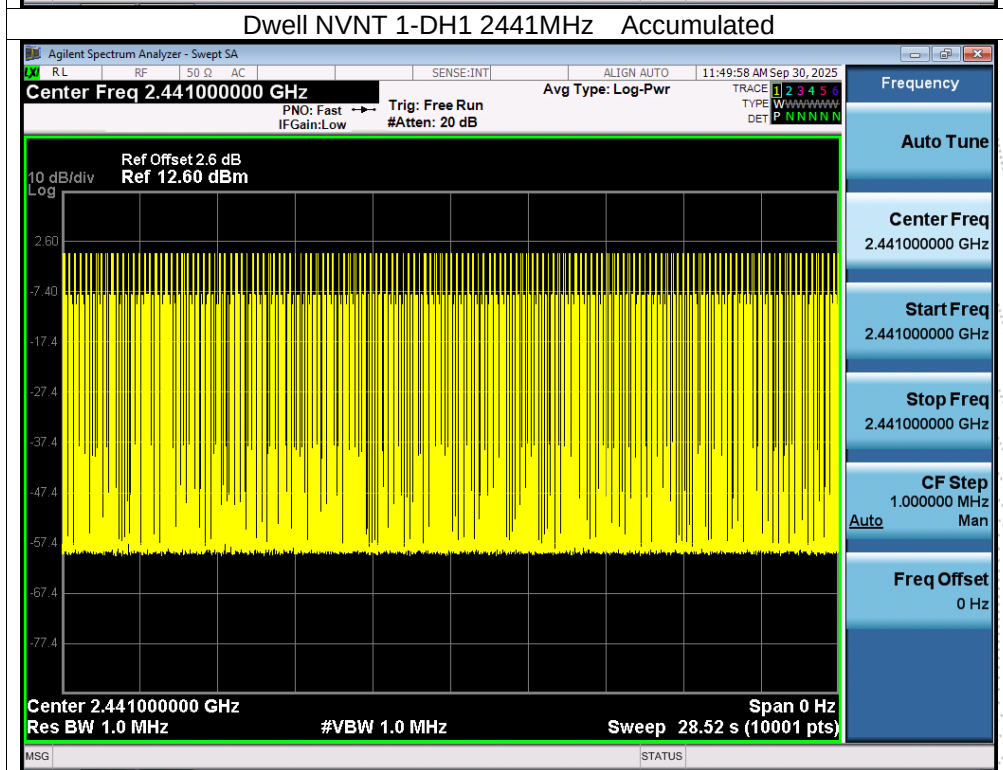
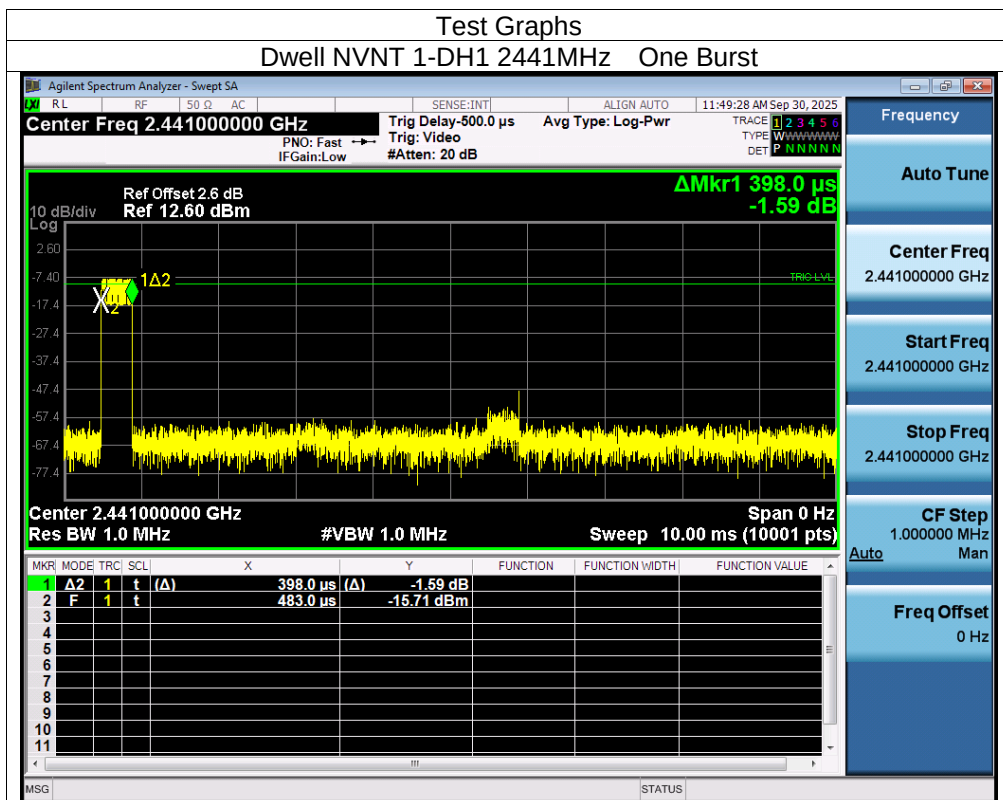


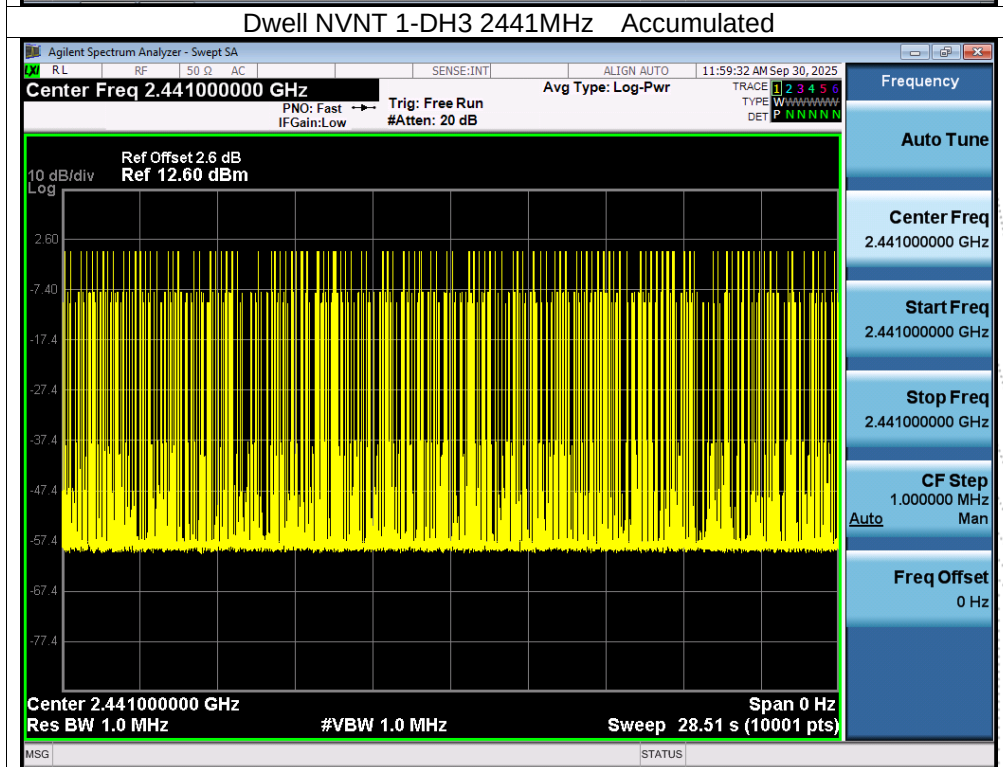
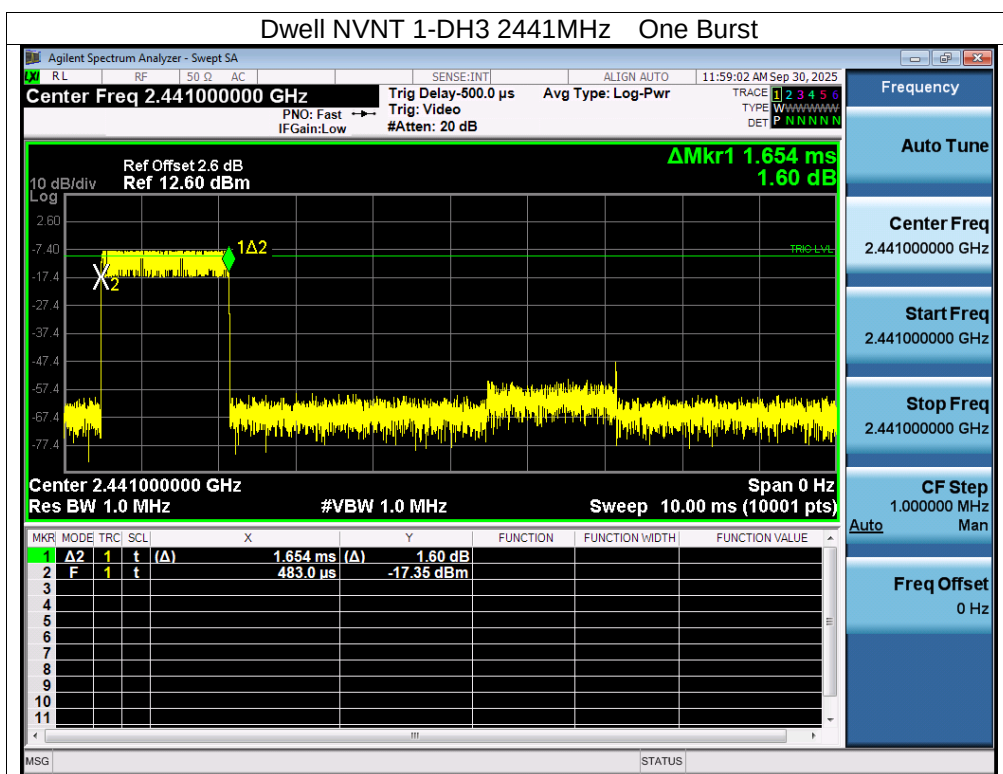


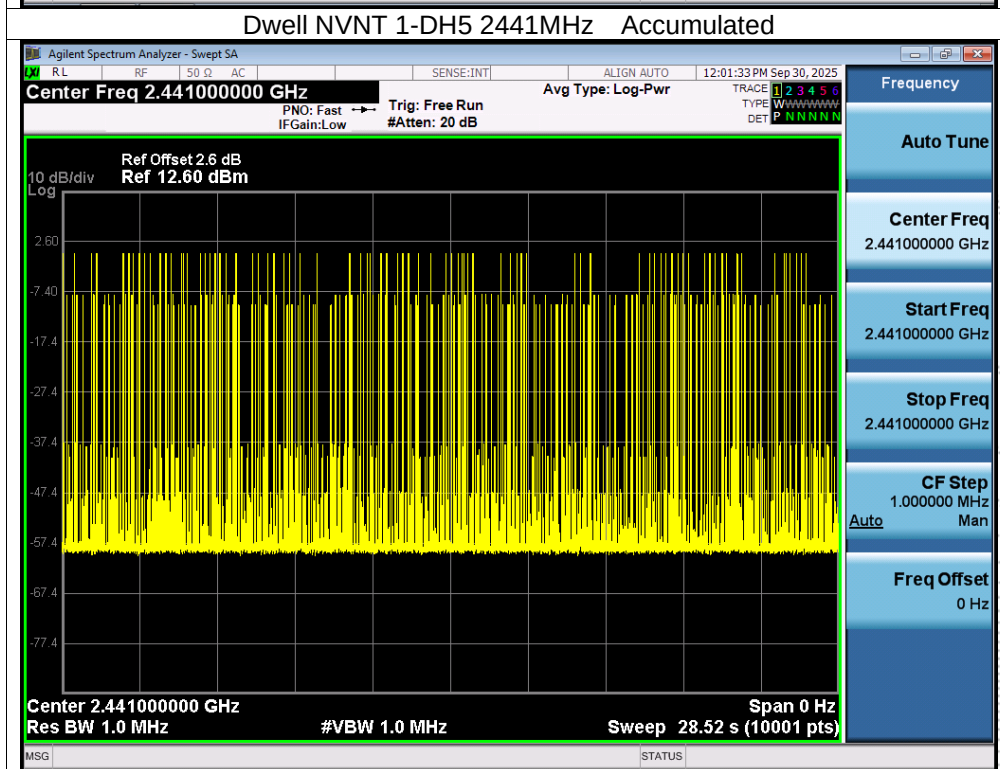
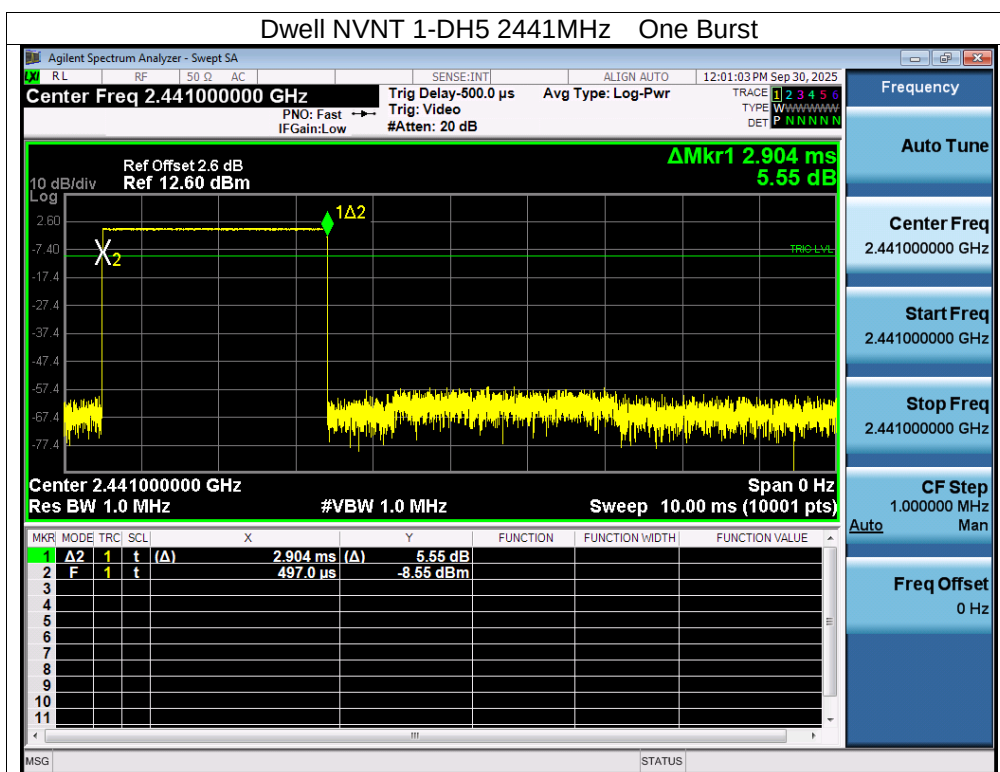


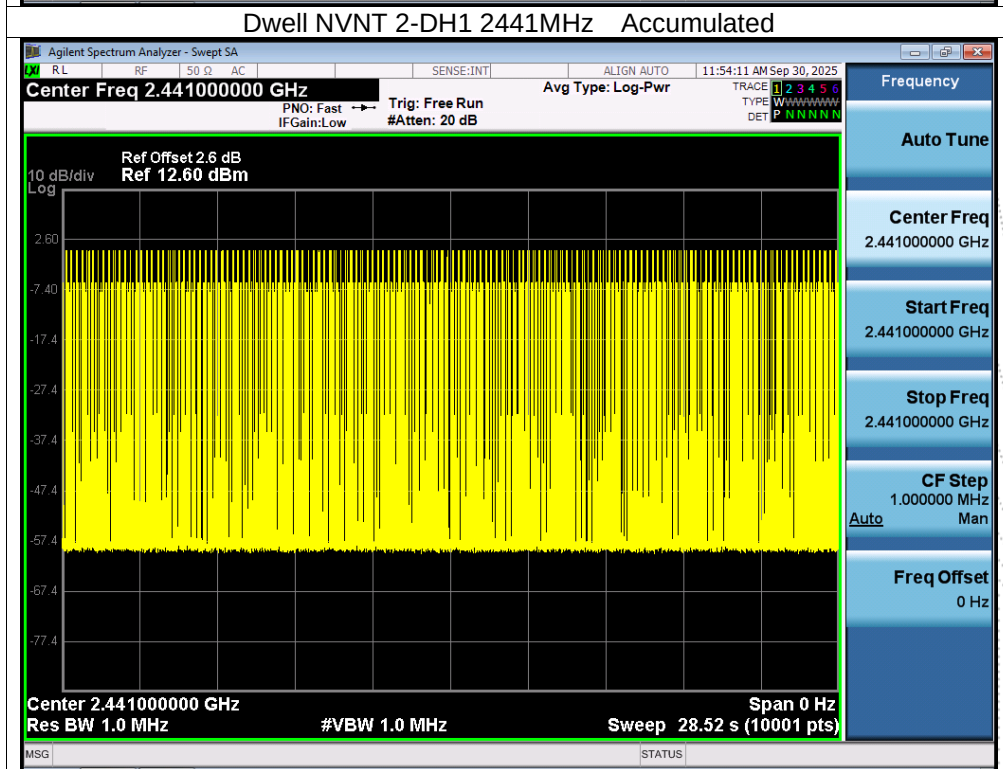
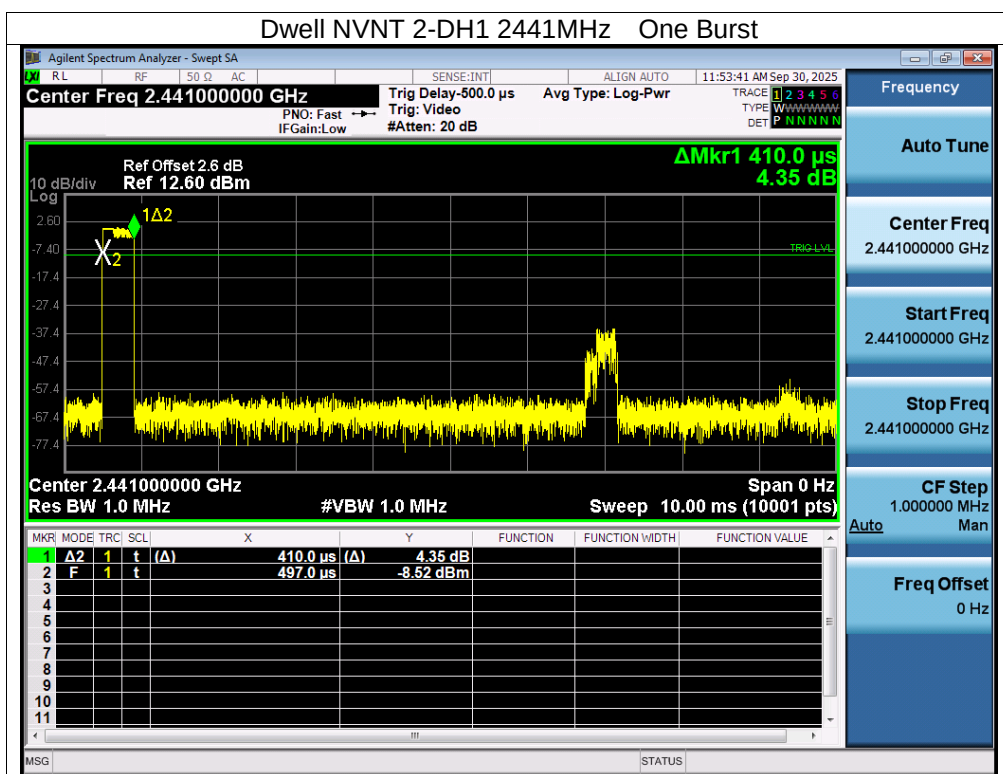


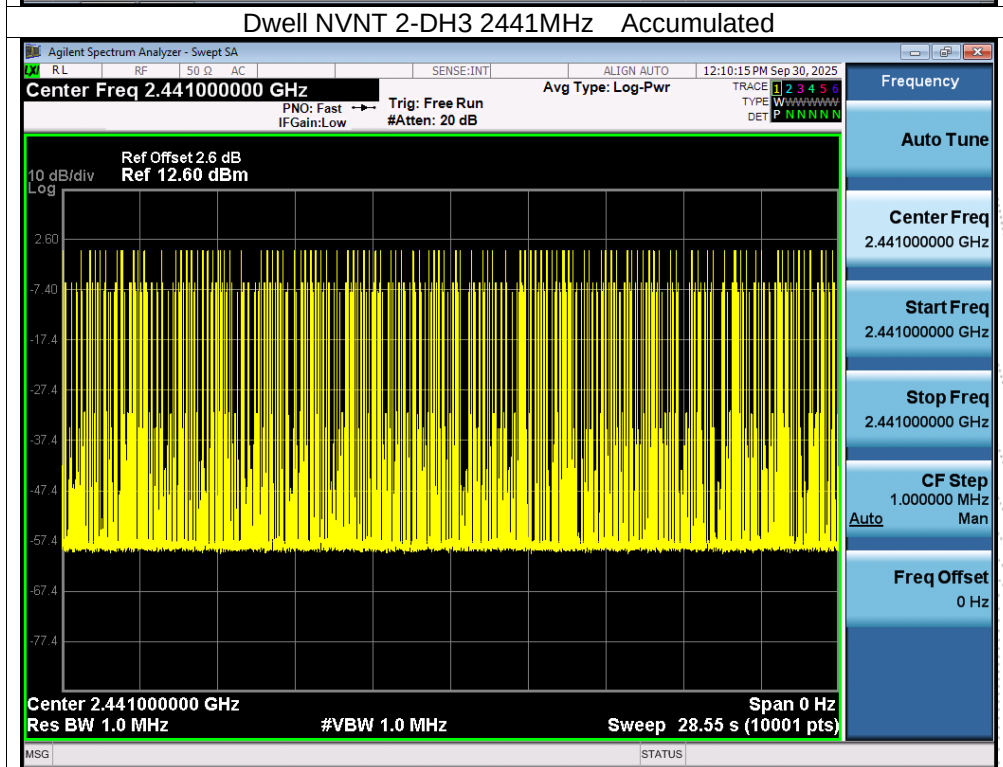
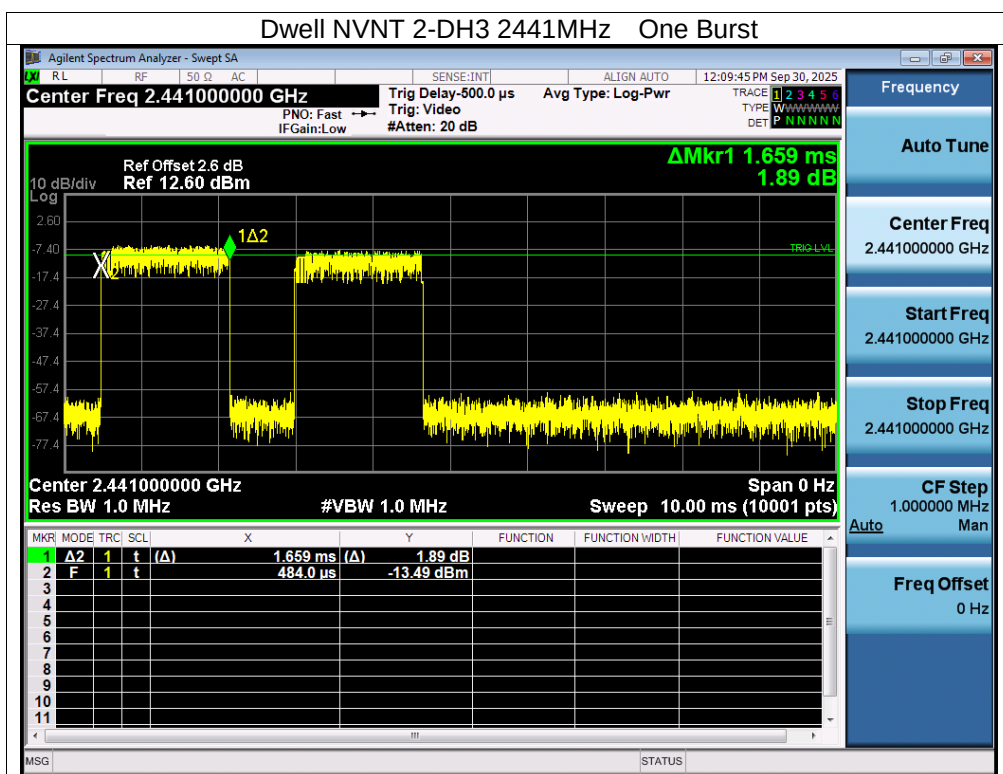


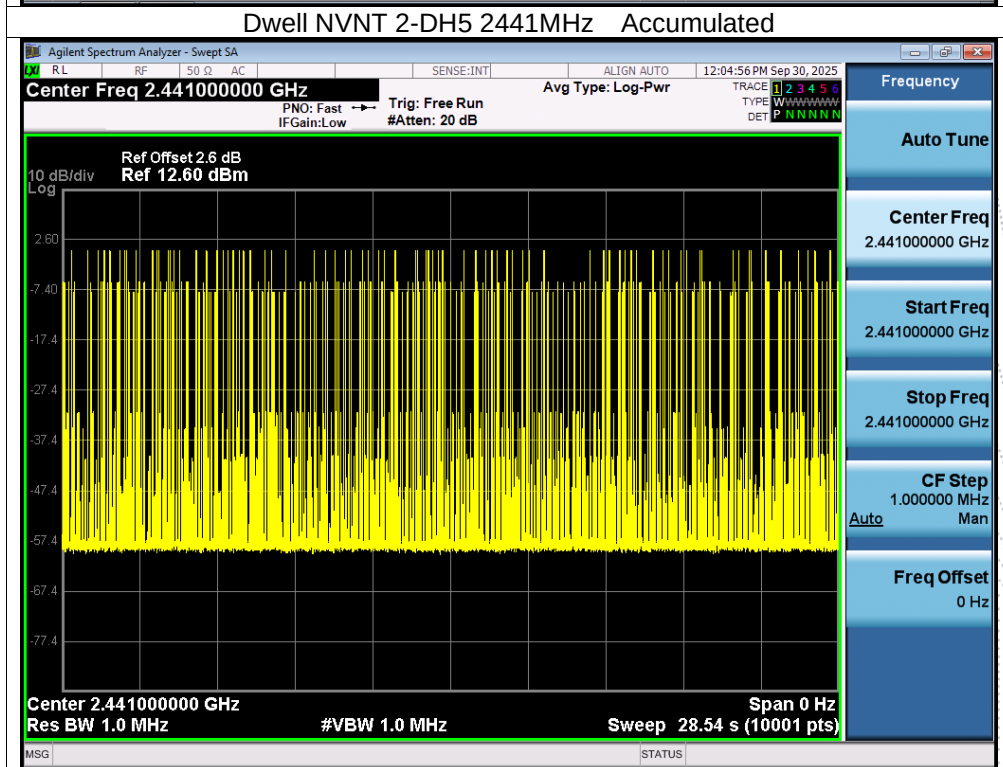
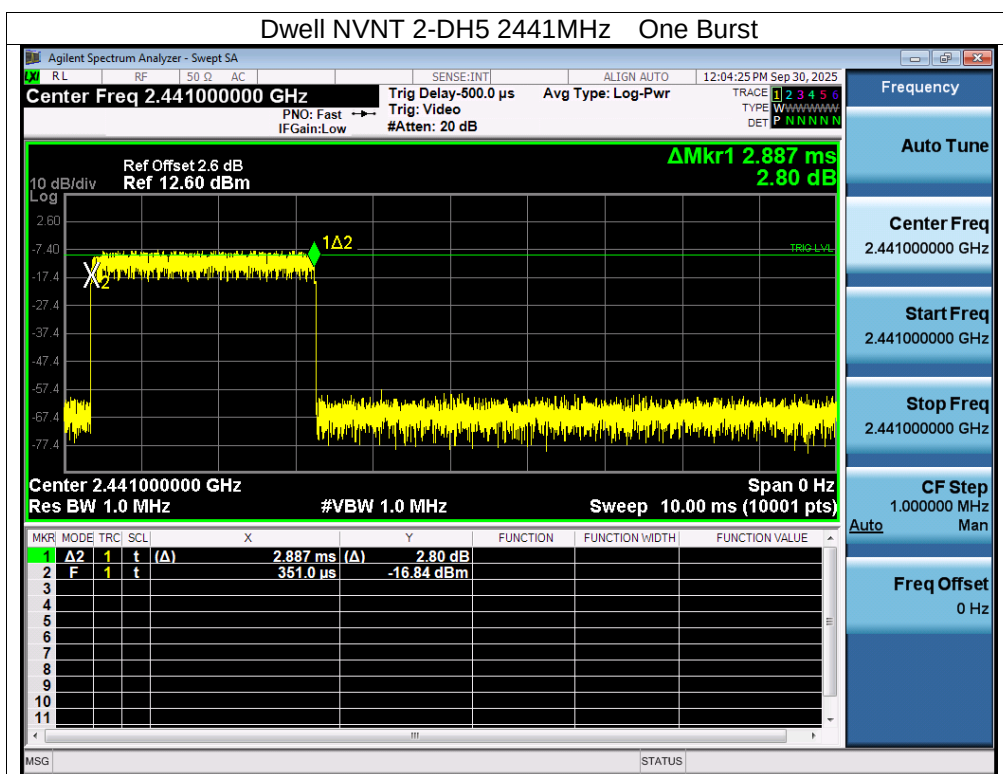


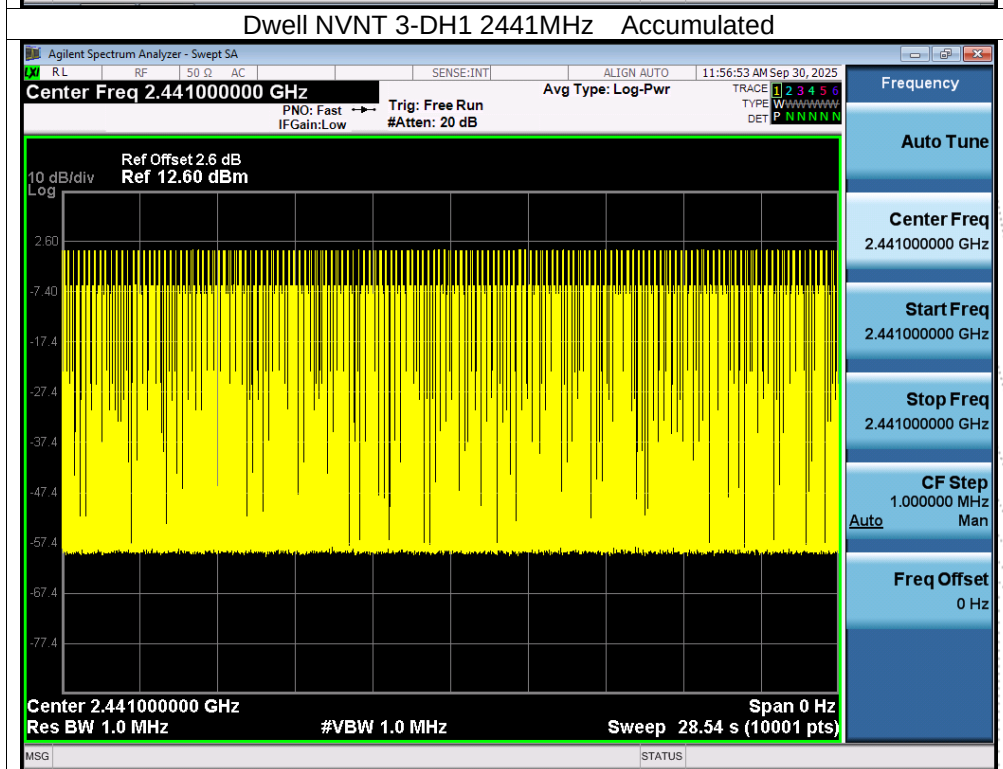
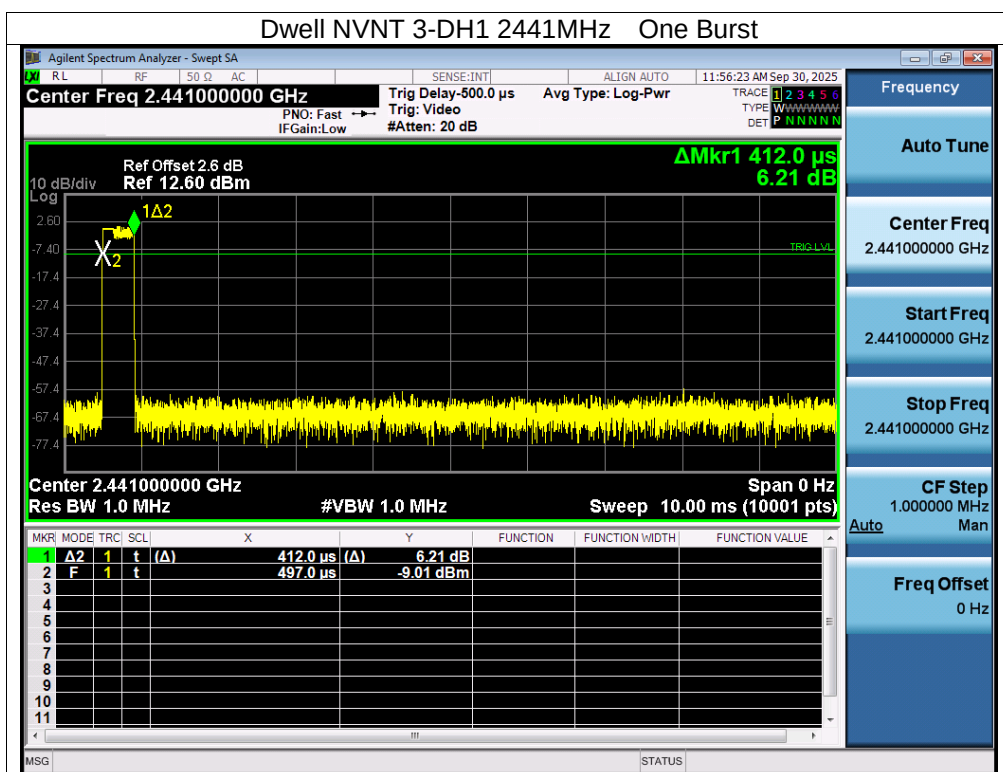




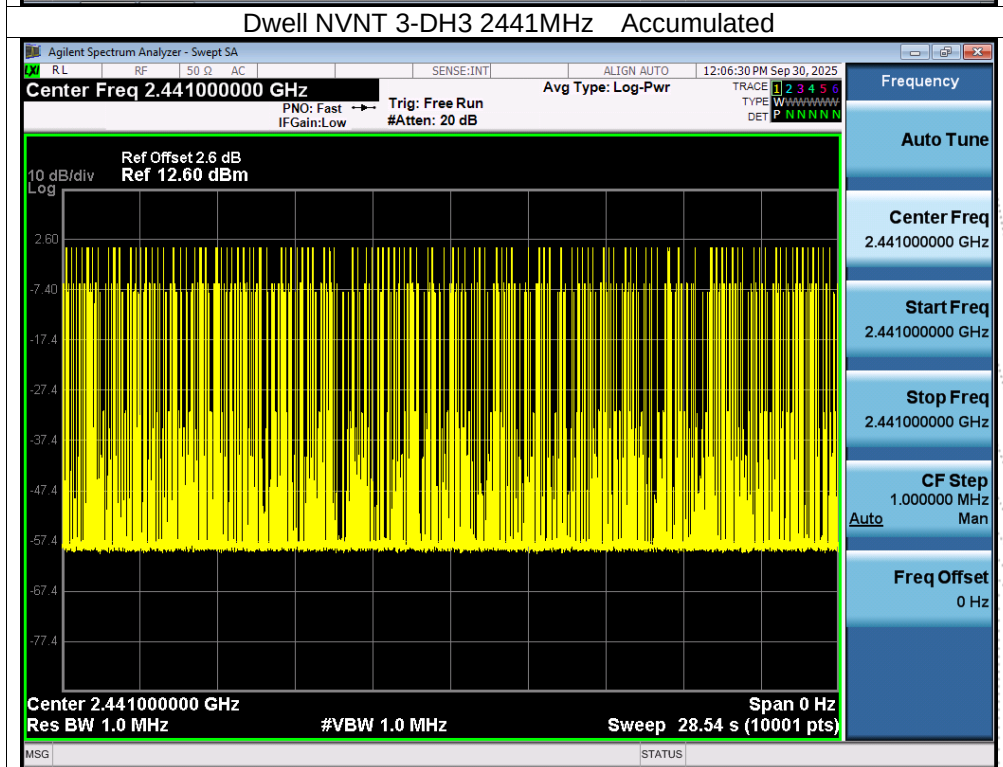
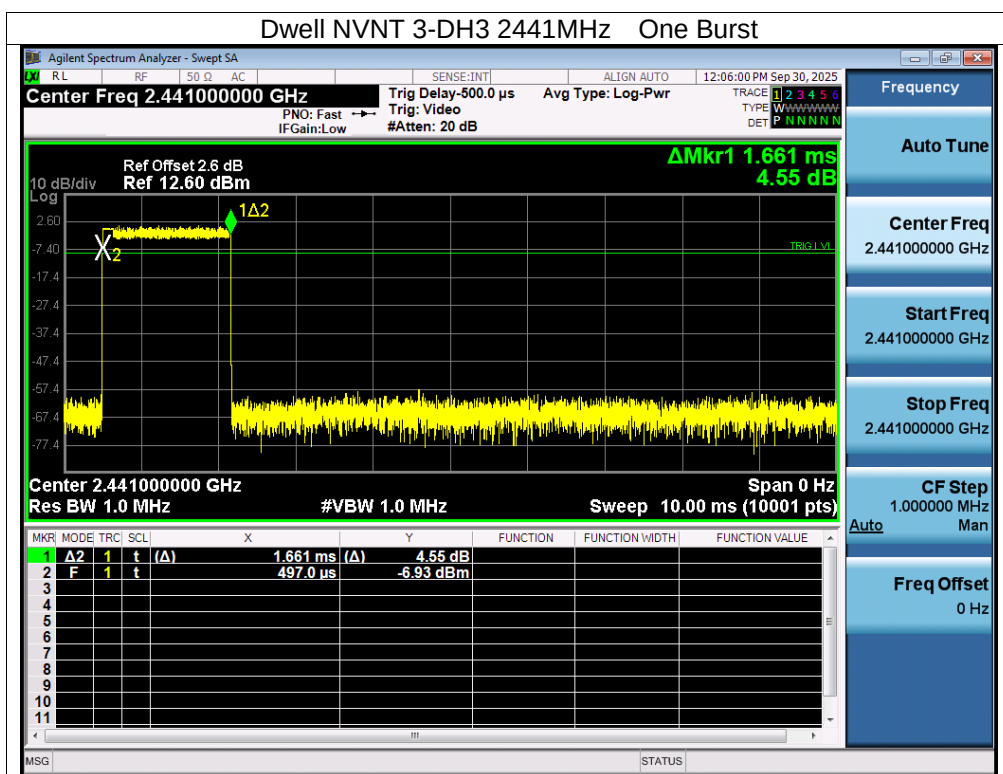


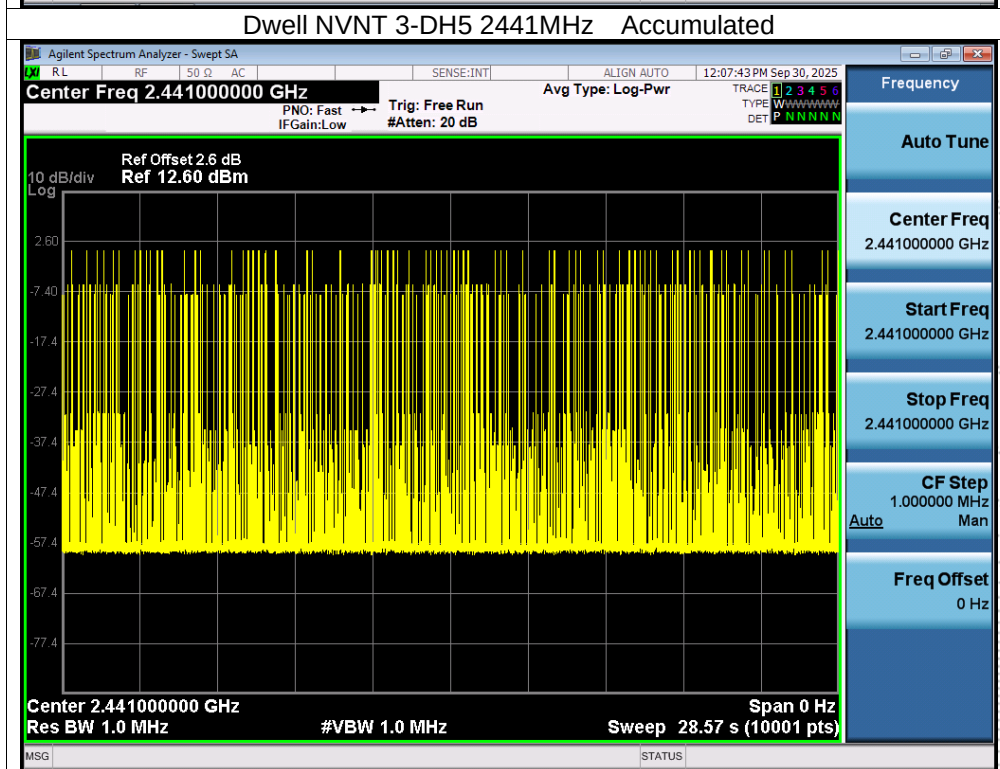
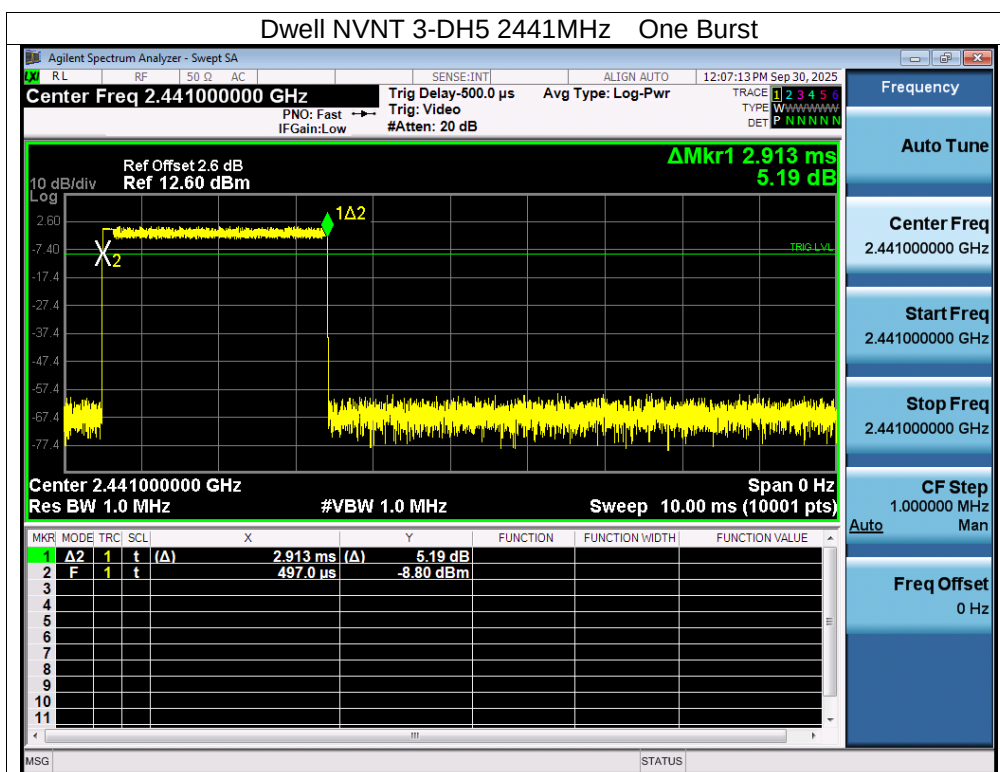






CO. LTD.



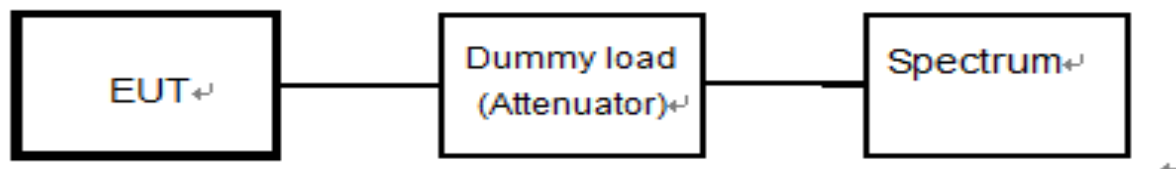


13. Carrier Sense

Not applicable, Since the EUT belong to Bluetooth

14. Imitation Of Collateral Emission Of Receiver Measurement

14.1 Block Diagram Of Test Setup



14.2 Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ (-54dBm) ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ (-47dBm) ($1\text{GHz} \leq f$)

14.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

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

14.4 Test Procedure

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions)
AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100 kHz and VB: 100 kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- 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
- 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.

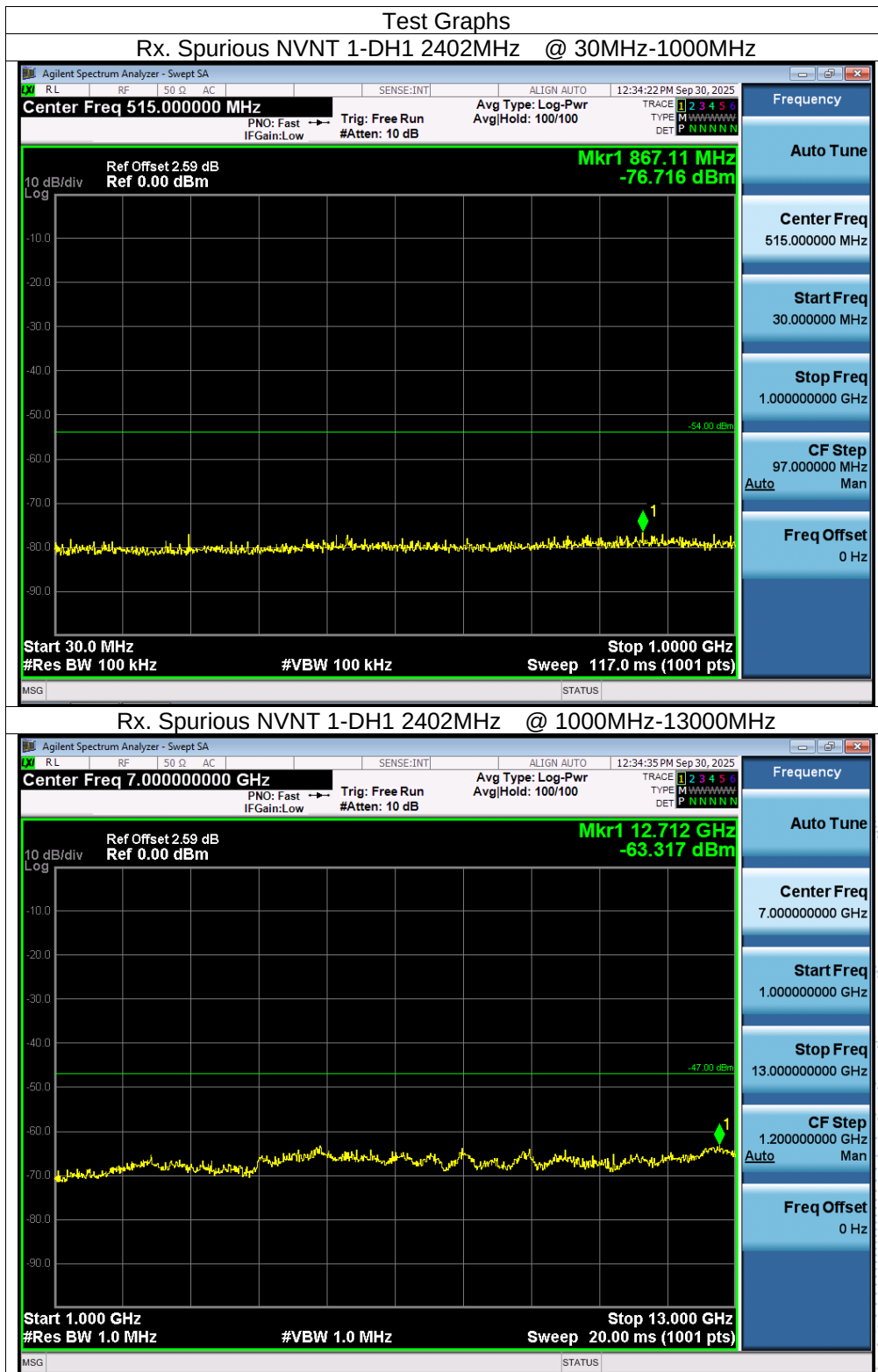
14.5 Test Result

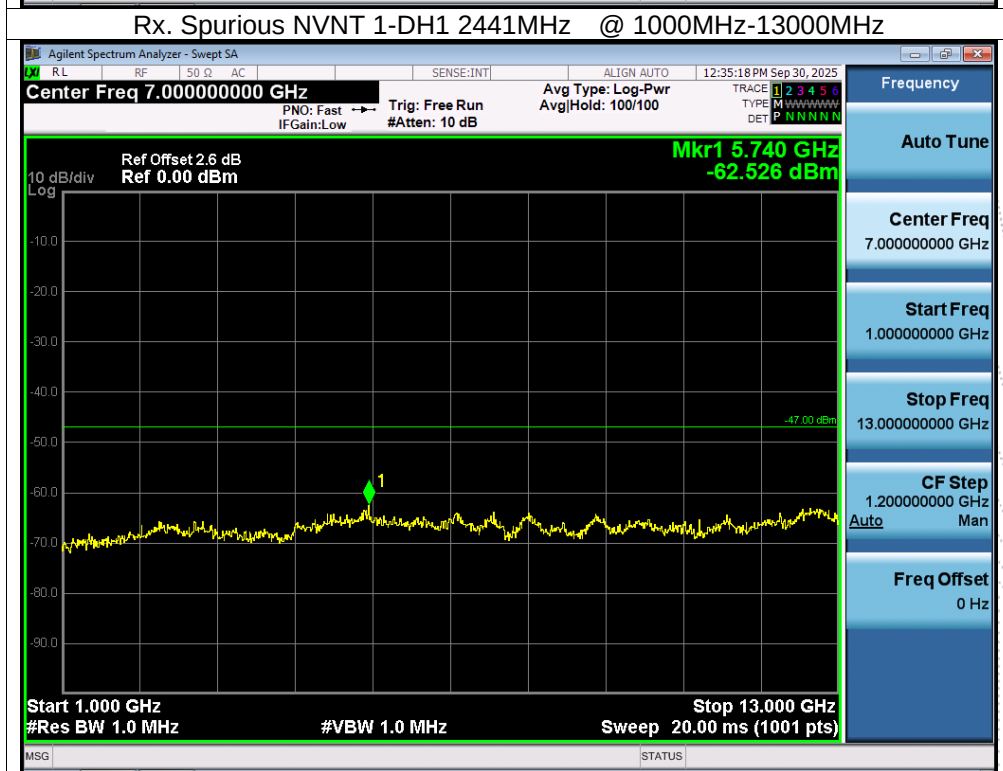
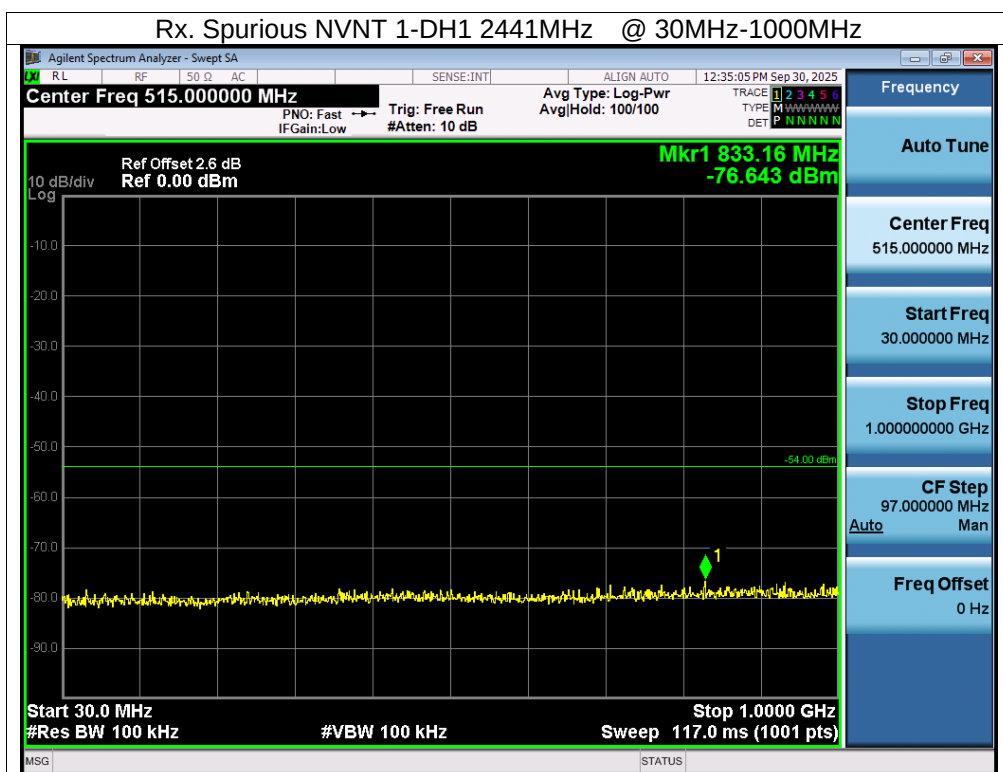
Left

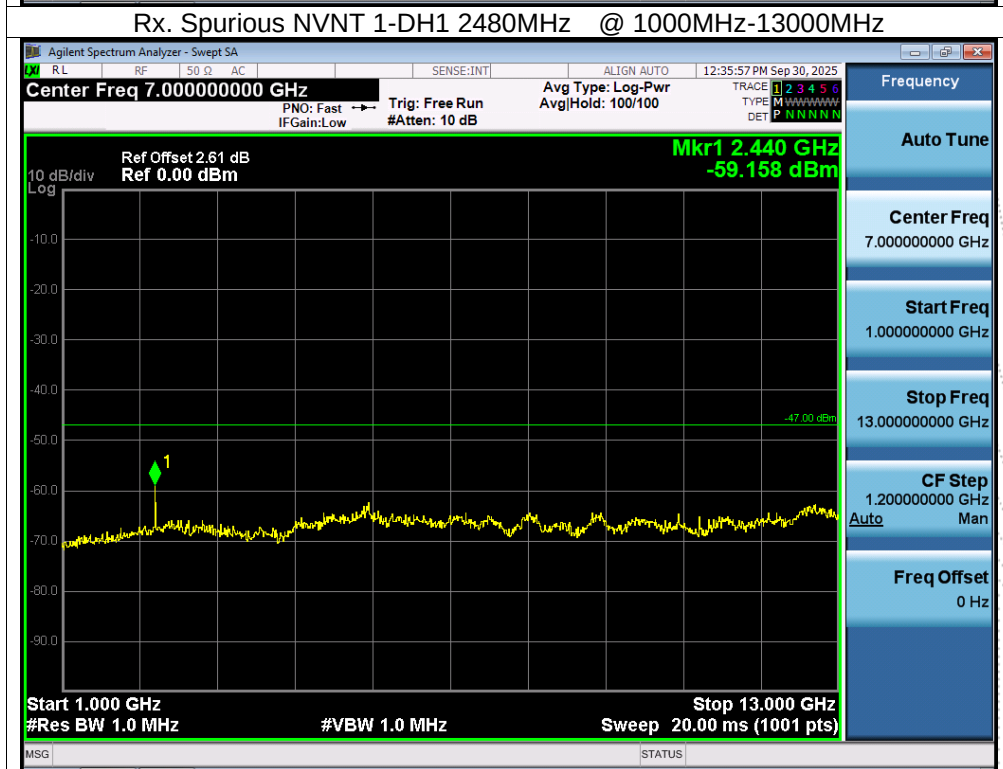
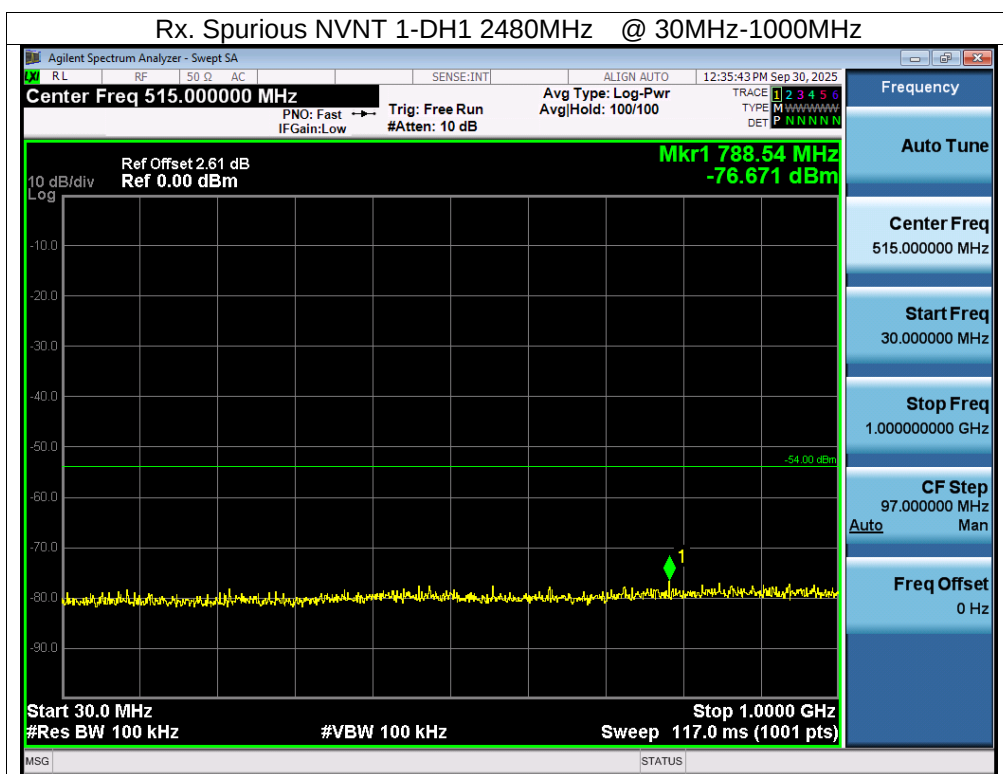
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	30-1000	867.11	-76.72	-54	Pass
NVNT	1-DH1	2402	1000-13000	12712	-63.32	-47	Pass
NVNT	1-DH1	2441	30-1000	833.16	-76.64	-54	Pass
NVNT	1-DH1	2441	1000-13000	5740	-62.53	-47	Pass
NVNT	1-DH1	2480	30-1000	788.54	-76.67	-54	Pass
NVNT	1-DH1	2480	1000-13000	2440	-59.16	-47	Pass

All the modes were tested and only recorded the worst mode in the report.







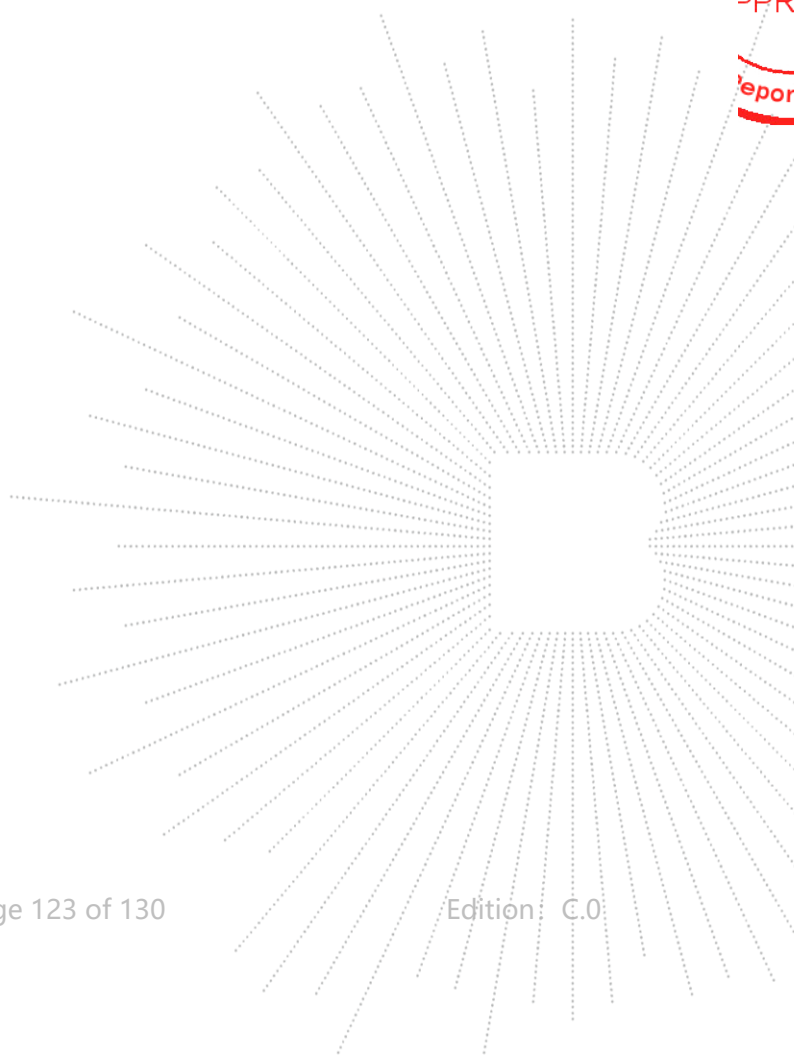
Right

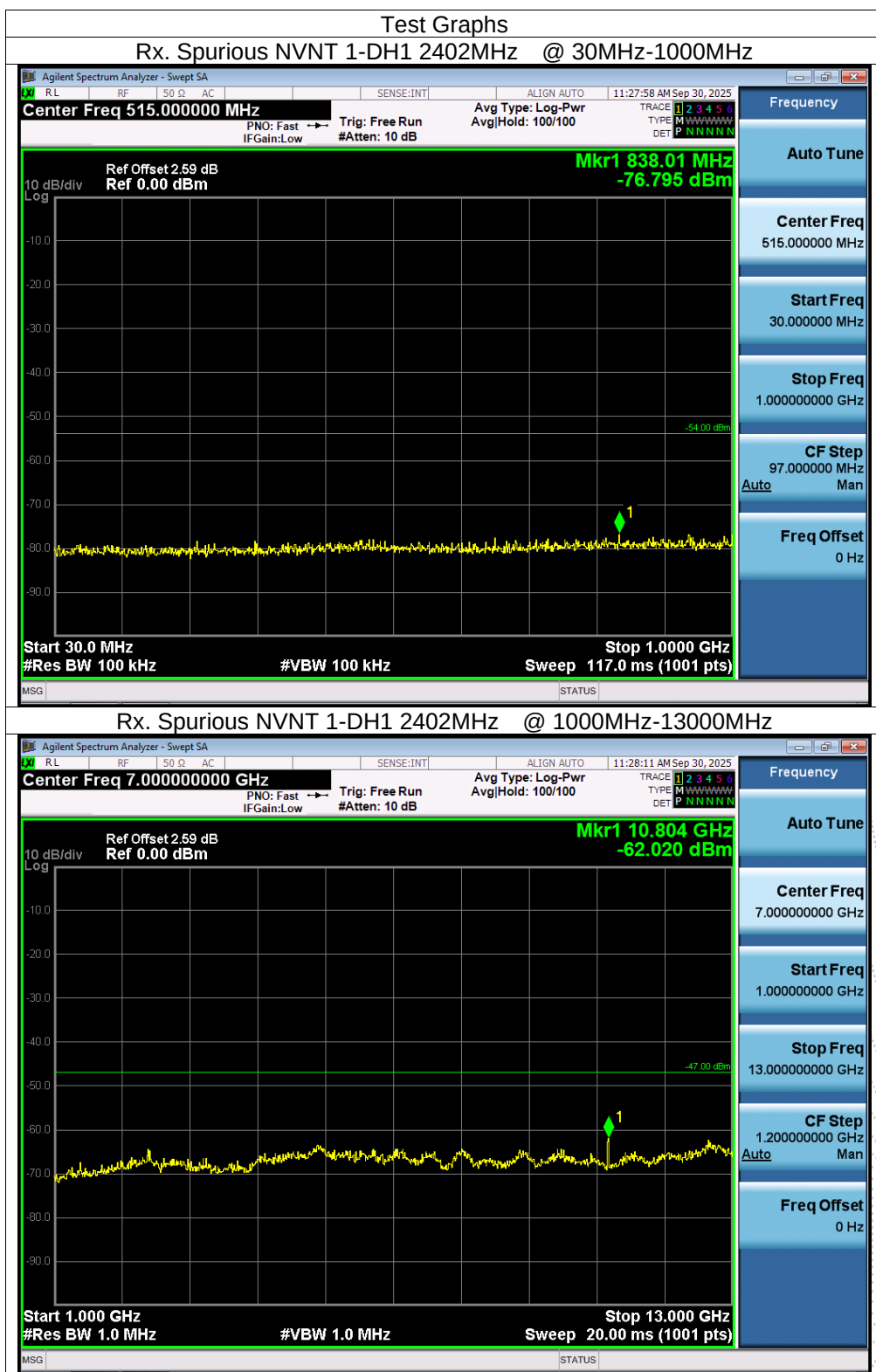
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.7V

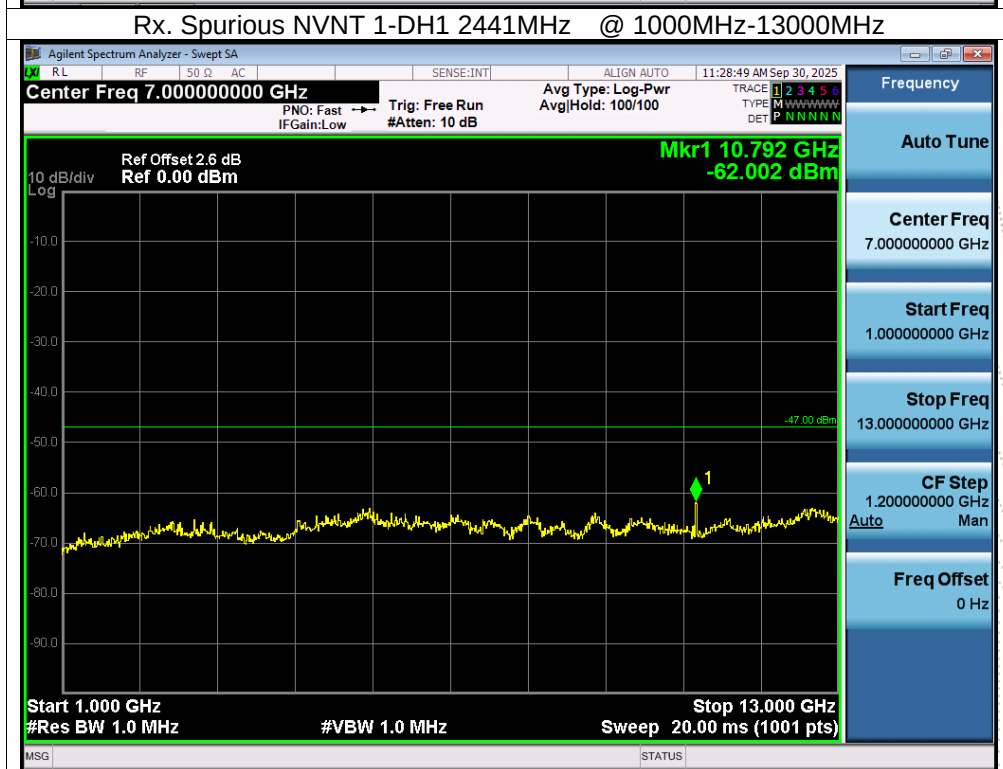
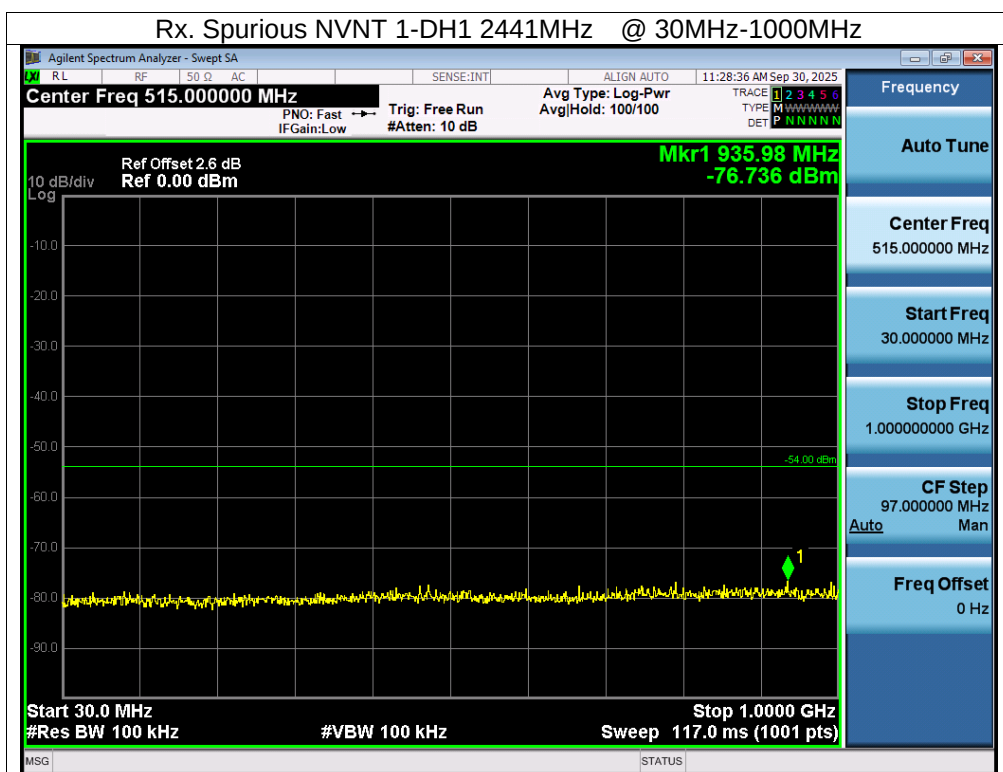
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	30-1000	838.01	-76.8	-54	Pass
NVNT	1-DH1	2402	1000-13000	10804	-62.02	-47	Pass
NVNT	1-DH1	2441	30-1000	935.98	-76.74	-54	Pass
NVNT	1-DH1	2441	1000-13000	10792	-62	-47	Pass
NVNT	1-DH1	2480	30-1000	440.31	-76.44	-54	Pass
NVNT	1-DH1	2480	1000-13000	10864	-61.78	-47	Pass

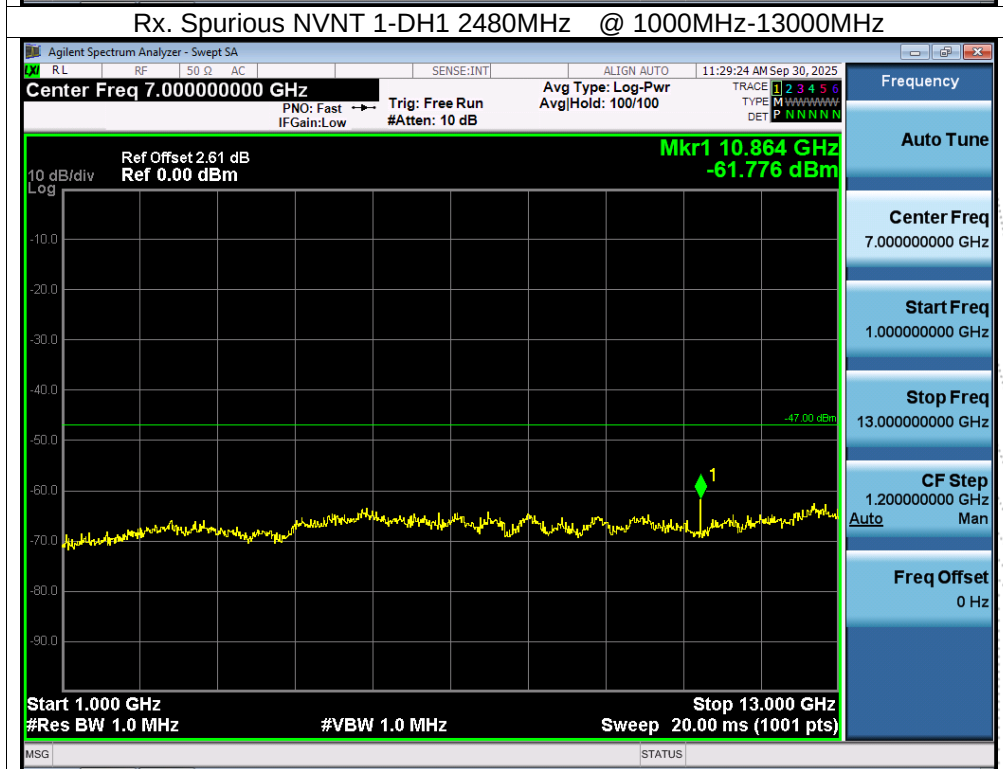
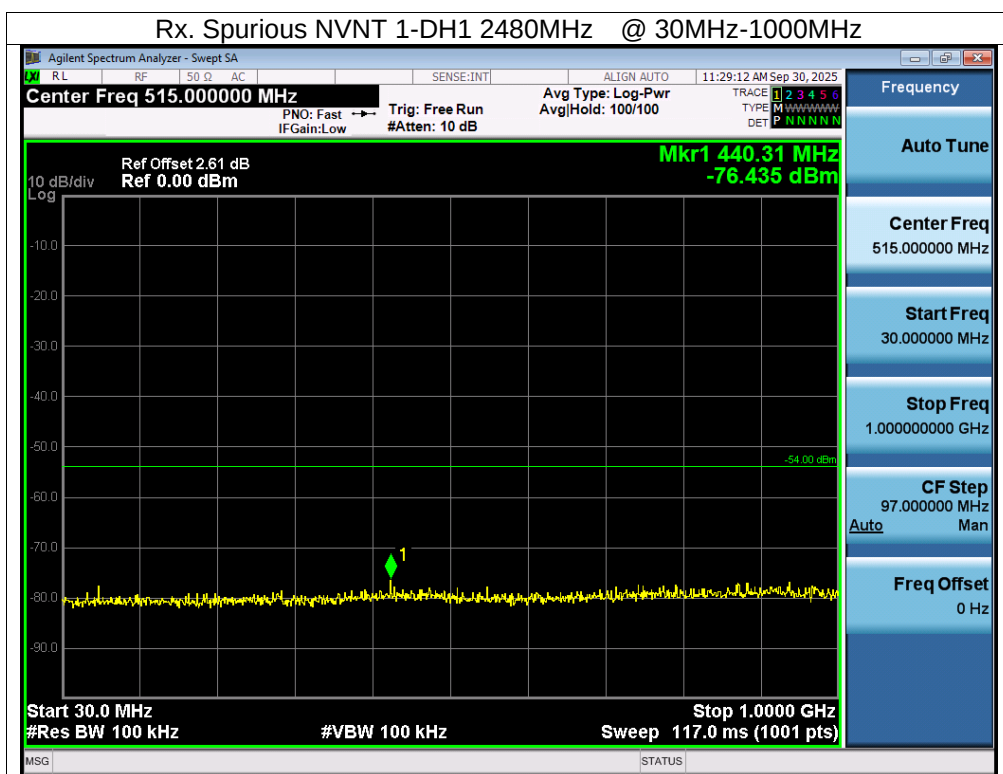
All the modes were tested and only recorded the worst mode in the report.

BCTC
BCTC
PPR
Report









15. EUT Photographs

EUT Photo 1



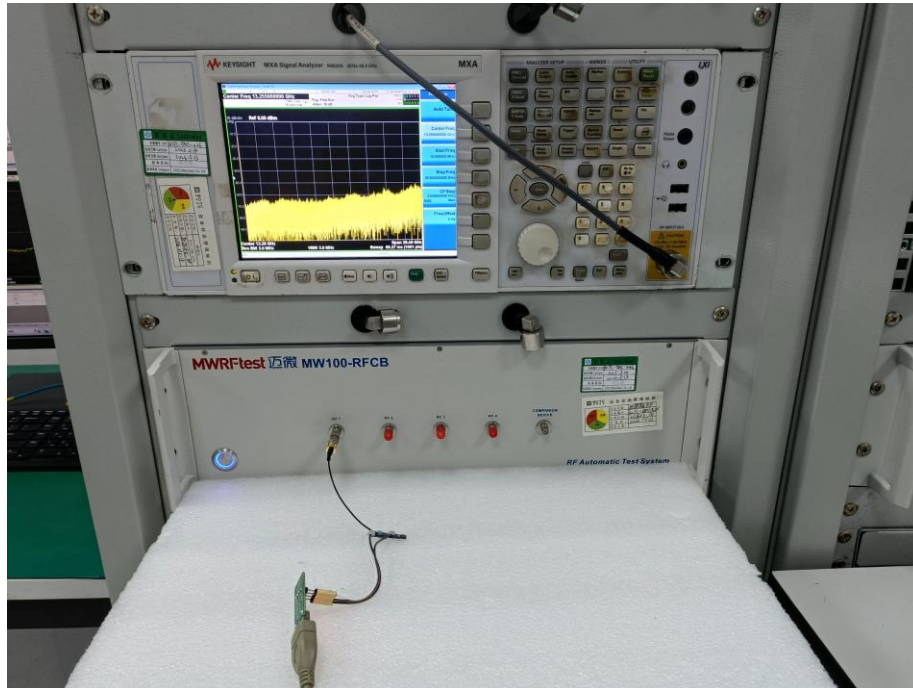
EUT Photo 2



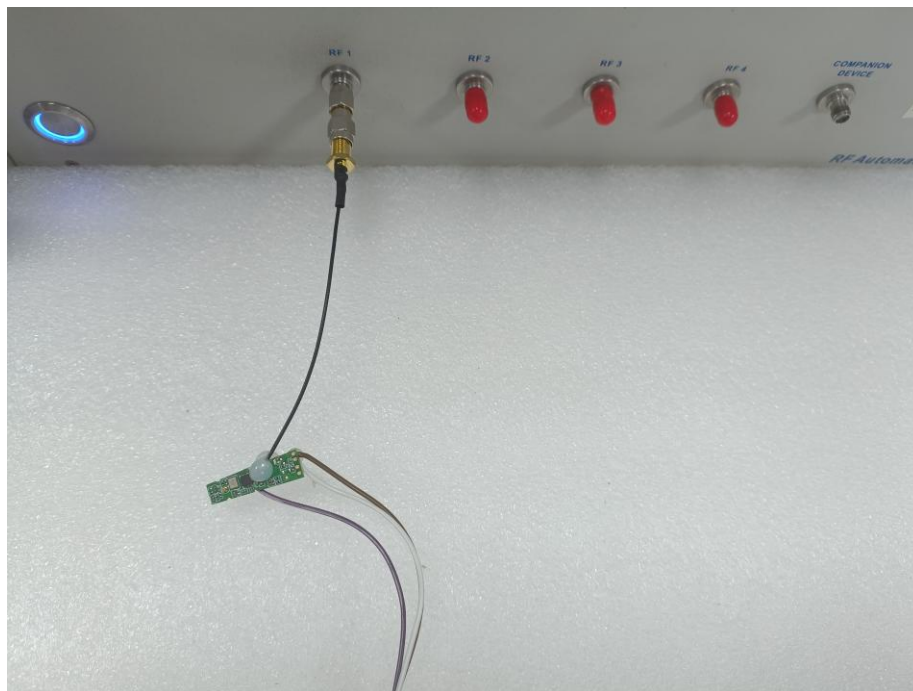
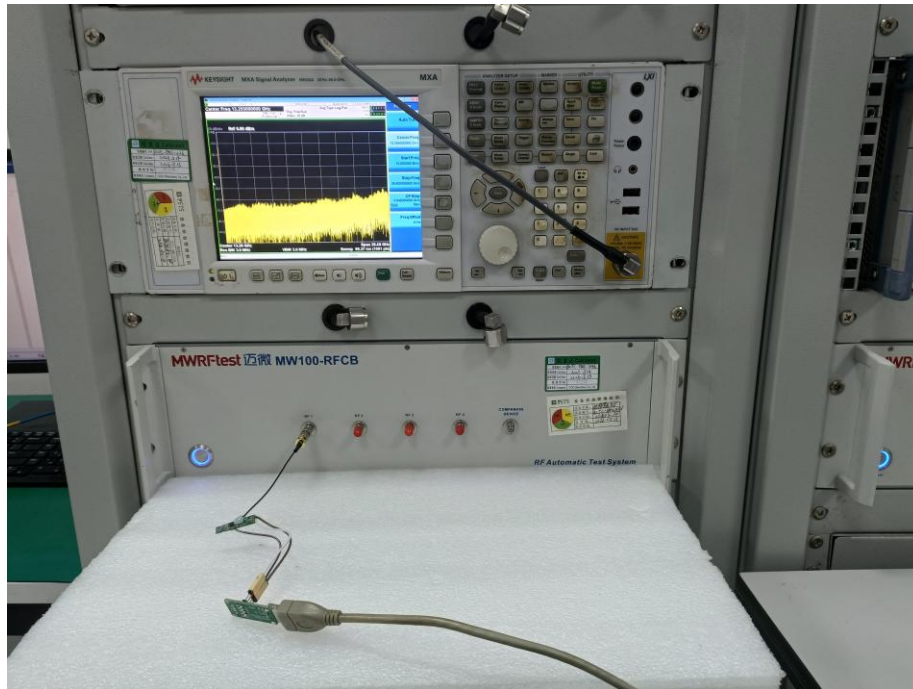
NOTE: Appendix-Photographs Of EUT Constructional Details.

16. EUT Test Setup Photographs

Measurement Photos
Left



Right



TEST
TC
OVED
t Seal

STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

