

TEST REPORT

Report No.: BCTC2512752473-2E

Applicant: Matatalab Co., Ltd.

Product Name: Solvia 8X32 AI Binoculars

Test Model: BN8x32

Tested Date: 2025-12-12 to 2026-03-11

Issued Date: 2026-03-11

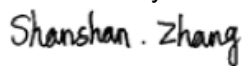


Shenzhen BCTC Testing Co., Ltd.



Product Name: Solvia 8X32 AI Binoculars
Trademark: MatataXplore
Model/Type Reference: BN8x32
Prepared For: Matatalab Co., Ltd.
Address: Room1206,1208, Block G2Galaxy World, No.1 Yabao Rd, Bantian Street,
Longgang District, Shenzhen, China
Manufacturer: Matatalab Co., Ltd.
Address: Room1206,1208, Block G2Galaxy World, No.1 Yabao Rd, Bantian Street,
Longgang District, Shenzhen, China
Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2025-12-12
Sample Tested Date: 2025-12-12 to 2026-03-11
Issue Date: 2026-03-11
Report No.: BCTC2512752473-2E
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:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd., this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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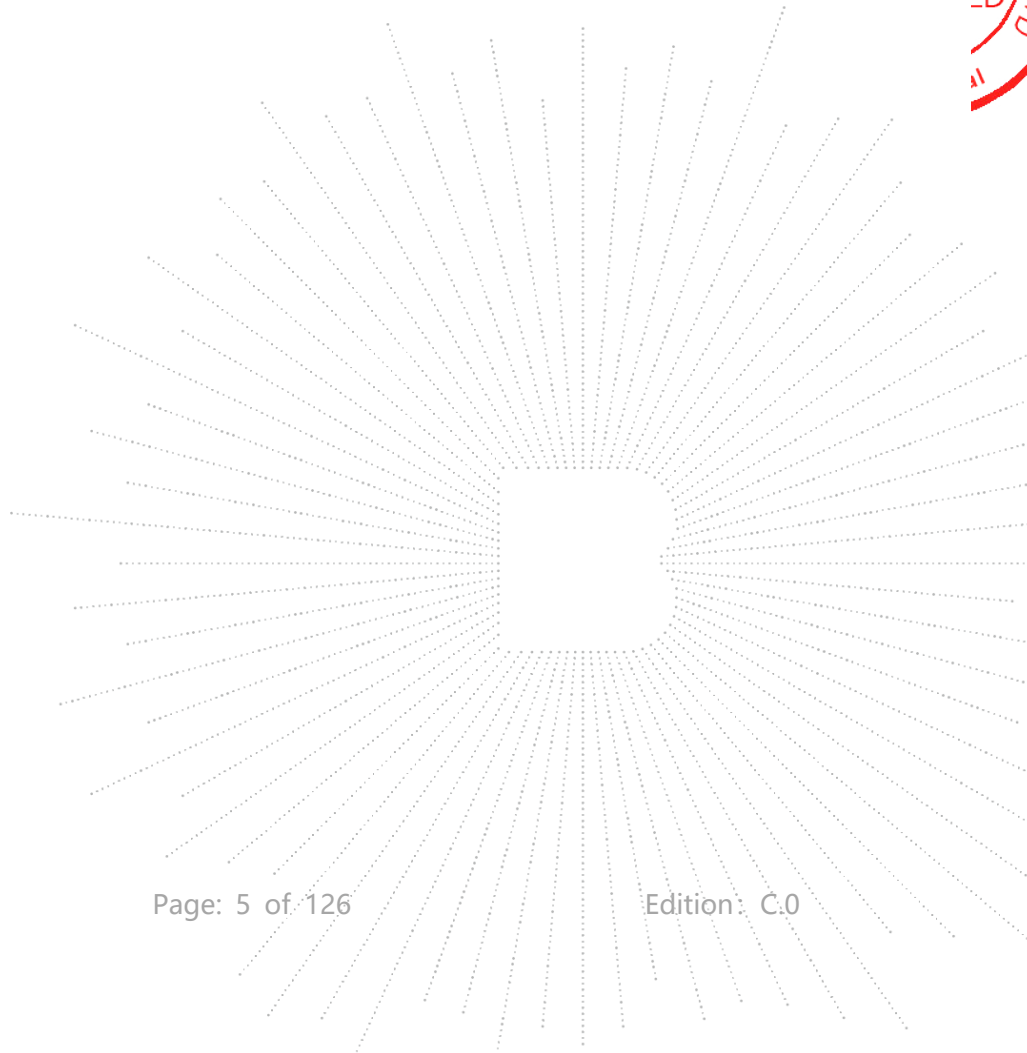
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2512752473-2E	2026-03-11	Original	Valid



2. Test Summary

Test procedures according to the technical standards:

Article 2 paragraph 1 of item 19	
Description of Test	Result
Frequency Error	Complies
Occupied Bandwidth (99%) and Spread-spectrum Bandwidth (90%)	Complies
Unwanted Emission Intensity	Complies
Antenna Power Error	Complies
Limitation of Collateral Emission of Receiver	Complies
Transmission Antenna Gain (EIRP Antenna Power)	Complies
Transmission Radiation Angle Width (3dB Bandwidth)	N/A ¹
Radio Interference Prevention Capability	Complies
Carrier Sense Capability	Complies
Construction Protection Confirmation	Complies

NOTE:

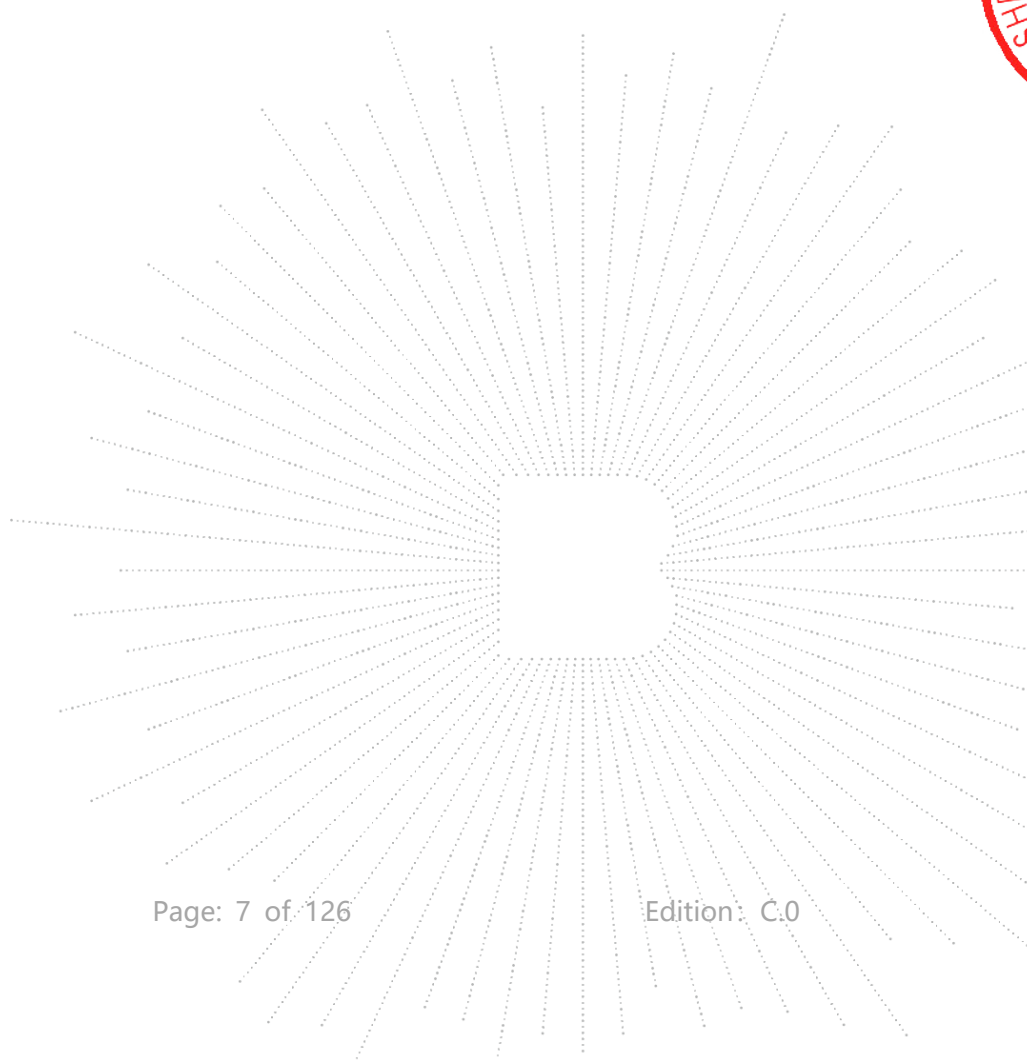
(1)" N/A" denotes test is not applicable in this Test Report

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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	$\pm 0.5\text{ppm}$

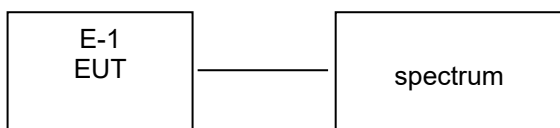


4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference:	BN8x32
Model Differences:	N/A
Hardware Version:	BN832-MAIN-01A-01
Software Version:	N/A
Operation Frequency:	WiFi: IEEE 802.11b/g/n HT20/ax HE20: 2412-2472MHz IEEE 802.11n HT40/ax HE40: 2422-2462MHz
Rated RF Output Power Density:	802.11b: 4 mW/MHz, 802.11g: 3 mW/MHz, 802.11nHT20: 2.5 mW/MHz, 802.11nHT40: 1.5 mW/MHz, 802.11axHE20: 2.5 mW/MHz, 802.11axHE 40: 1.5 mW/MHz
Conducted Power Density:	802.11b: 3.90 mW/MHz, 802.11g: 3.05 mW/MHz, 802.11nHT20: 2.27 mW/MHz, 802.11nHT40: 1.58 mW/MHz, 802.11axHE20: 2.53 mW/MHz, 802.11axHE 40: 1.45 mW/MHz
Type of Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n/ax: DSSS (CCK, DQPSK, DBPSK)+OFDM(QPSK, BPSK, 16-QAM, 64-QAM, 1024QAM)+OFDMA(QPSK, BPSK, 16-QAM, 64-QAM, 1024QAM)
Bit Rate of ransmitter:	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n/ax: Up to 150Mbps
Channel space:	5MHz
Number Of Channel:	13 Channels for 802.11b/g/n(HT20) /ax HE20 9 channels for 802.11nHT40/ax HE40
Antenna installation:	Internal antenna
Antenna Gain:	4.05 dBi 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 adapter or 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	Solvix 8X32 AI Binoculars	MatataXplore	BN8x32	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(802.11b/g/n/ax20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	02	2417	03	2422
04	2427	05	2432	06	2437
07	2442	08	2447	09	2452
10	2457	11	2462	12	2467
13	2472				

Channel List(802.11n/ax 40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	04	2427	05	2432
06	2437	07	2442	08	2447
09	2452	10	2457	11	2462

Note: This product does not support RU mode.

4.5 Test Mode

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode1	CH01	802.11b
Mode2	CH07	
Mode3	CH13	
Mode4	RX	
Mode5	CH01	802.11g
Mode6	CH07	
Mode7	CH13	
Mode8	RX	
Mode9	CH01	802.11n20
Mode10	CH07	
Mode11	CH13	
Mode12	RX	
Mode13	CH03	802.11n40
Mode14	CH07	
Mode15	CH11	
Mode16	RX	
Mode17	CH01	802.11ax20
Mode18	CH07	
Mode19	CH13	
Mode20	RX	
Mode21	CH03	802.11ax40
Mode22	CH07	
Mode23	CH11	
Mode24	RX	

4.6 Test Conditions

The devices 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%

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 +/-10%, +/-10% of the external power change, will not affect the voltage of the RF(DC 3.3V), 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	SecureCRT		
Frequency	2412 MHz	2442 MHz	2472 MHz
Parameters	DEF	DEF	DEF
Frequency	2422 MHz	2442 MHz	2462 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	Type No.	Serial No.	Last calibration	Calibrated until
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
7.	Software	MTS	8310E	V3.0.0.0	\	\

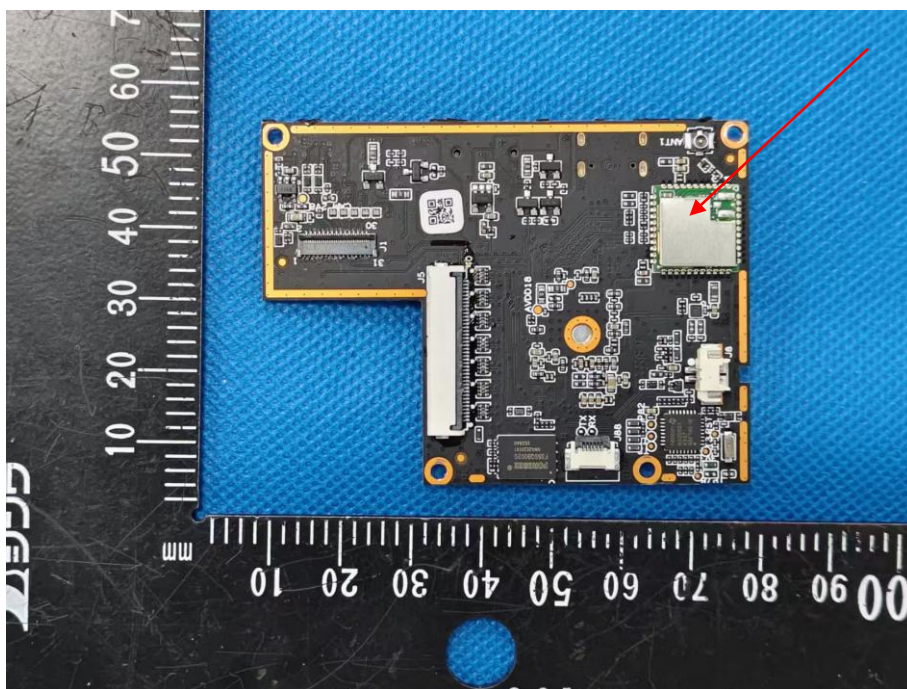
Calibration laboratory: CCIC(Shenzhen) Co., Ltd

● 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

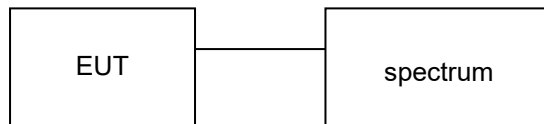
Enclosure:

RF and Modulation components are covered with shielding case and this shielding case is soldered.



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

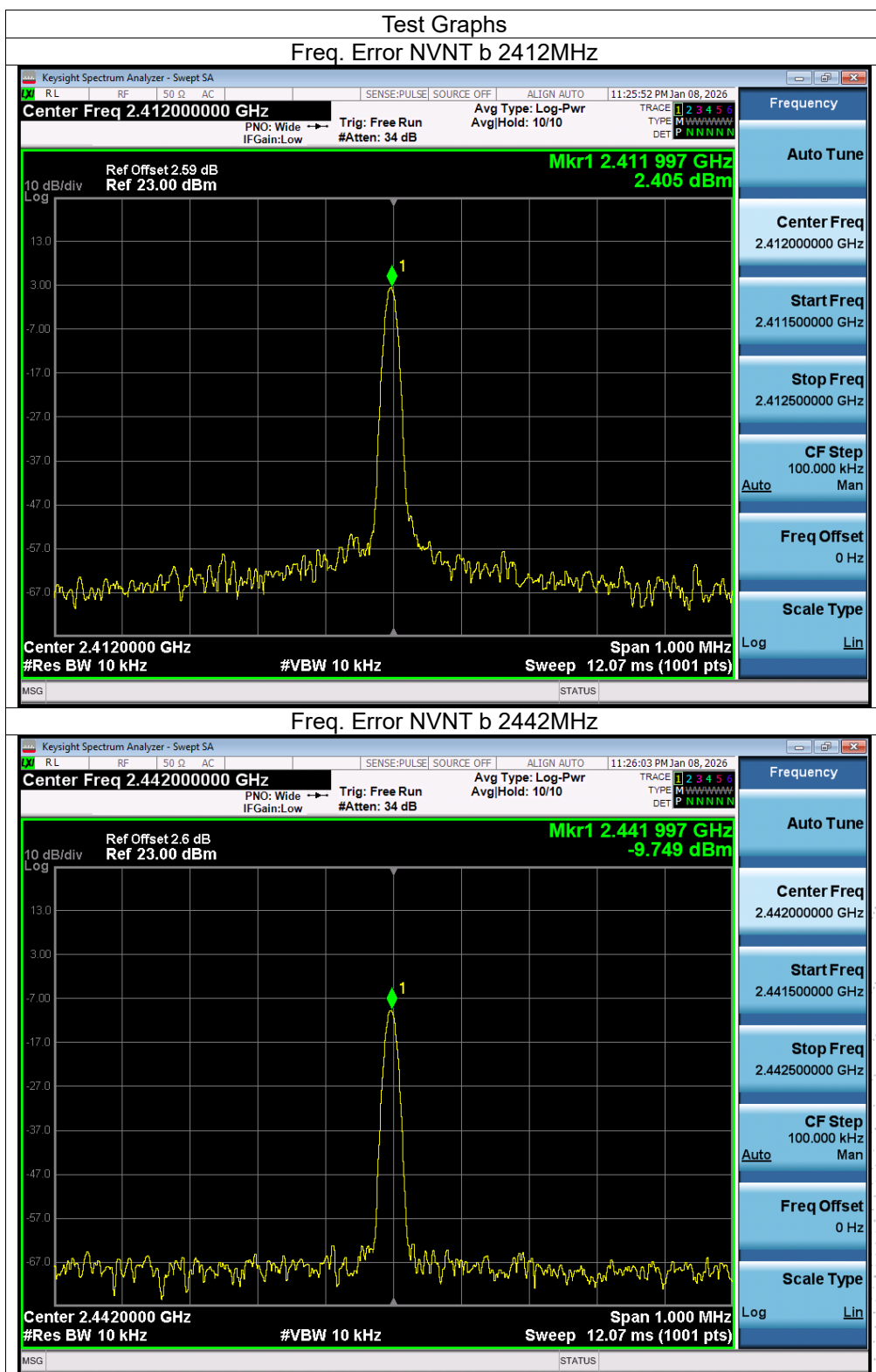
7.4 Test Procedure

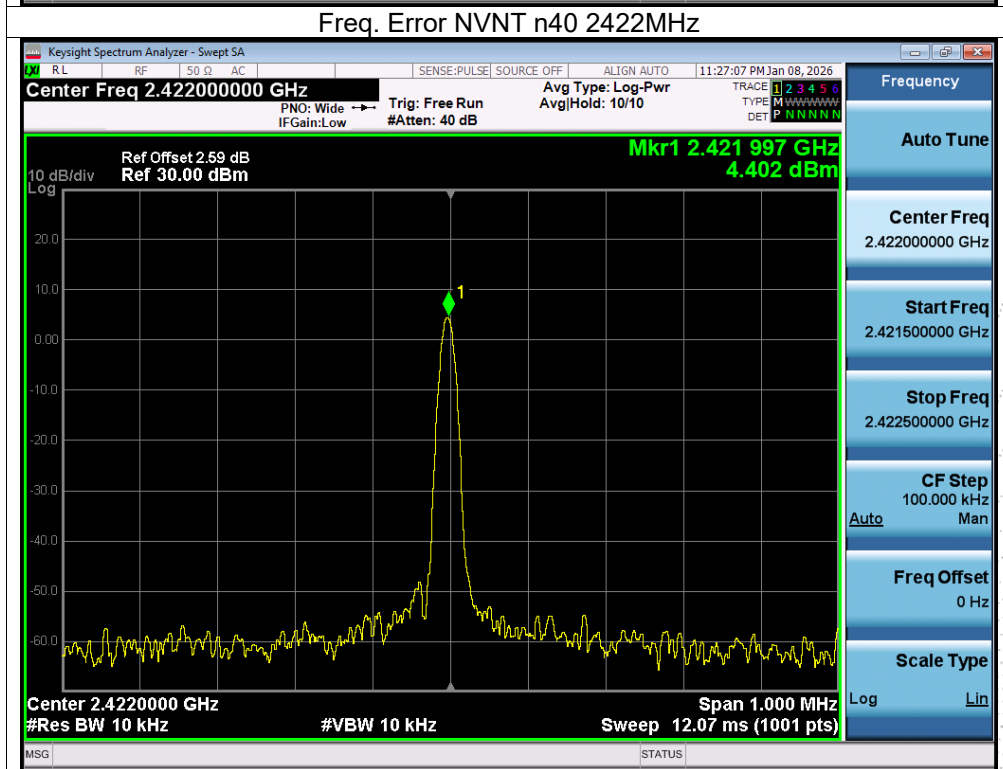
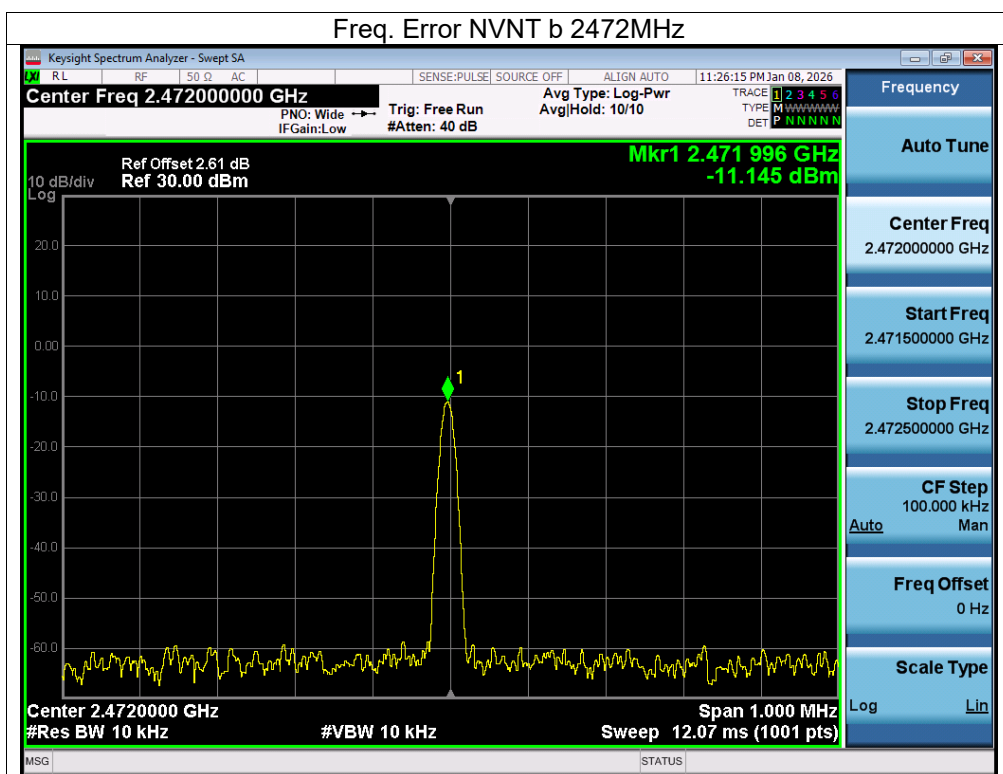
- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes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

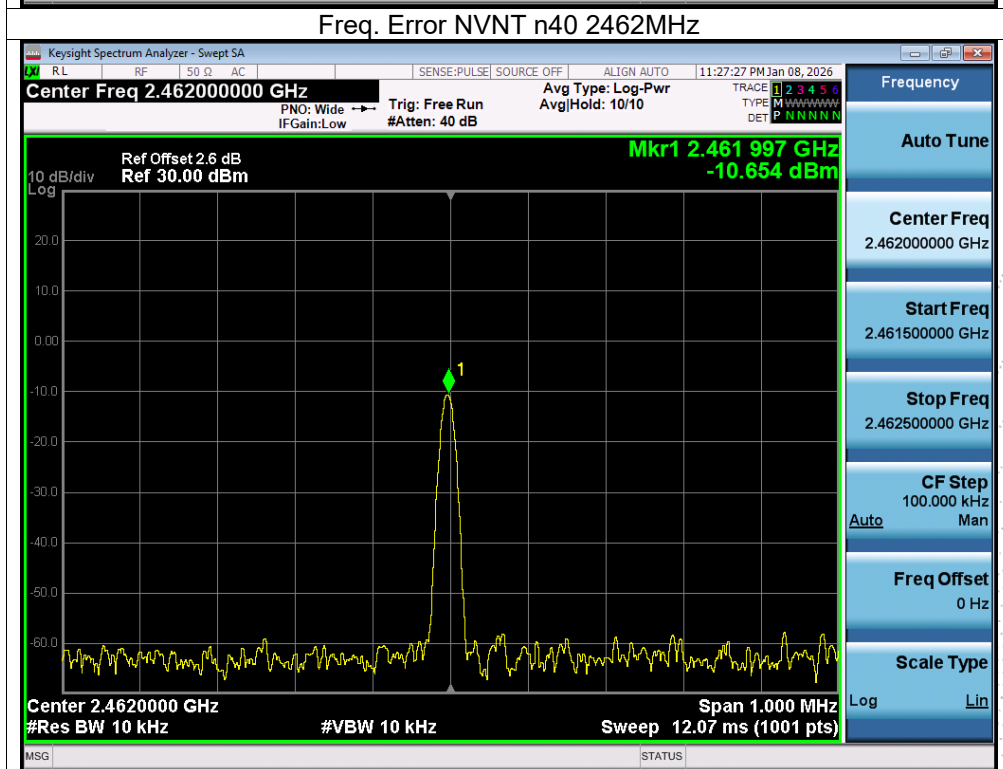
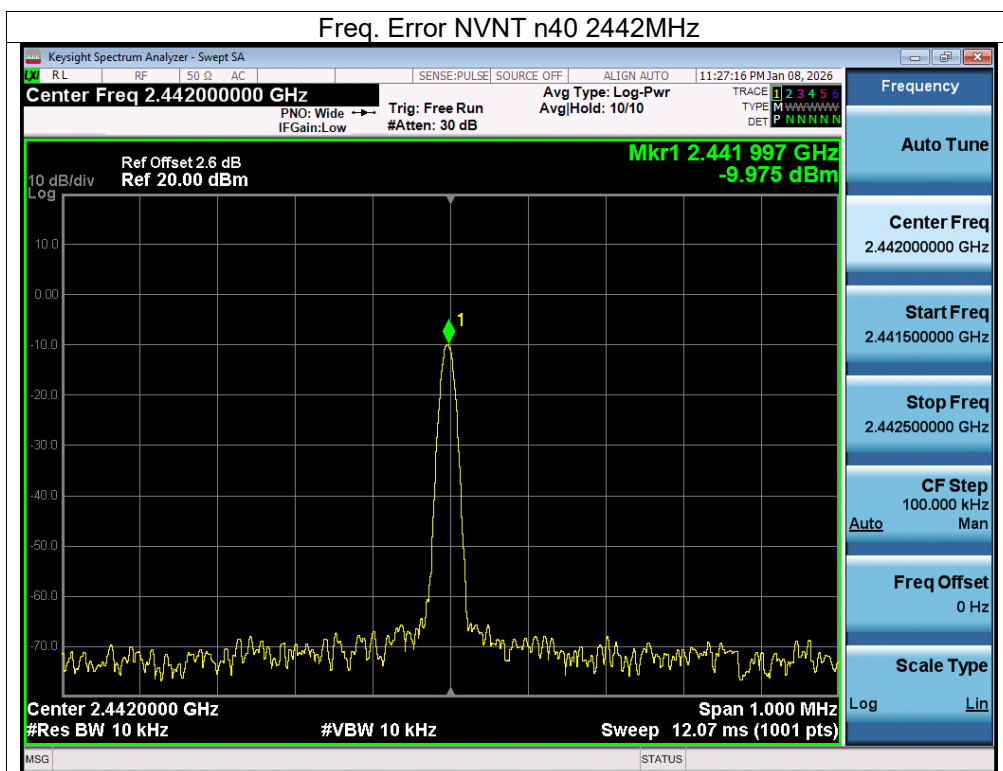
7.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Condition:	NVNT		

Mode	Test Frequency (MHz)	Measured Frequency (MHz)	Frequency Error(ppm)	Limit (ppm)	Verdict
b	2412	2411.997	-1.24	±50	PASS
b	2442	2441.997	-1.23	±50	PASS
b	2472	2471.996	-1.62	±50	PASS
n40	2422	2421.997	-1.24	±50	PASS
n40	2442	2441.997	-1.23	±50	PASS
n40	2462	2461.997	-1.22	±50	PASS



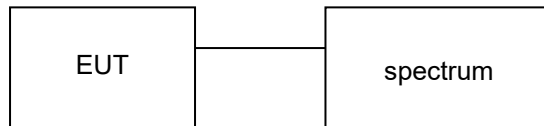




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8. Antenna Power

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) $\leq 5\text{mW}$ (OFDM OBW 26-38MHz) (4) $\leq 10\text{mW}$ (Other than (1) & (2)& (3))
Antenna Power Error	+20%, No Lower Limit (Base on manufacturer declare antenna power density)

8.3 Test Procedure

Step 1: Connect the EUT to the Spectrum analyser and use the following settings:

Centre Frequency: The Centre frequency of the channel under test.

RBW: 1 MHz.

VBW: 1 MHz.

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

Trace Mode: Max Hold.

Step 2: When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3: Make the following changes to the settings of the Spectrum analyser:

Centre Frequency: Equal to the frequency recorded in step 2.

Span: 3 MHz.

RBW: 1 MHz.

VBW: 1 MHz.

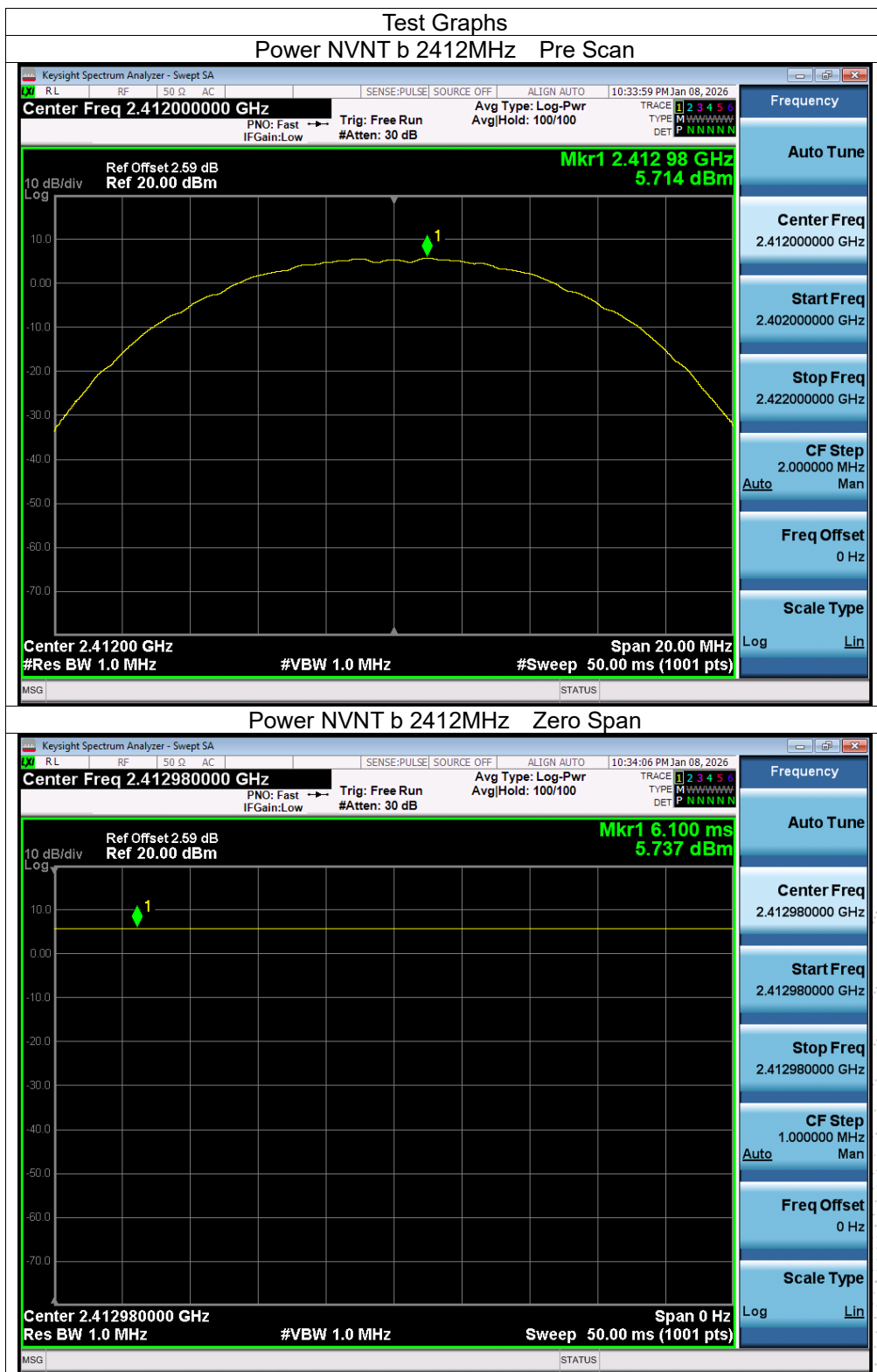
Detector: Peak.

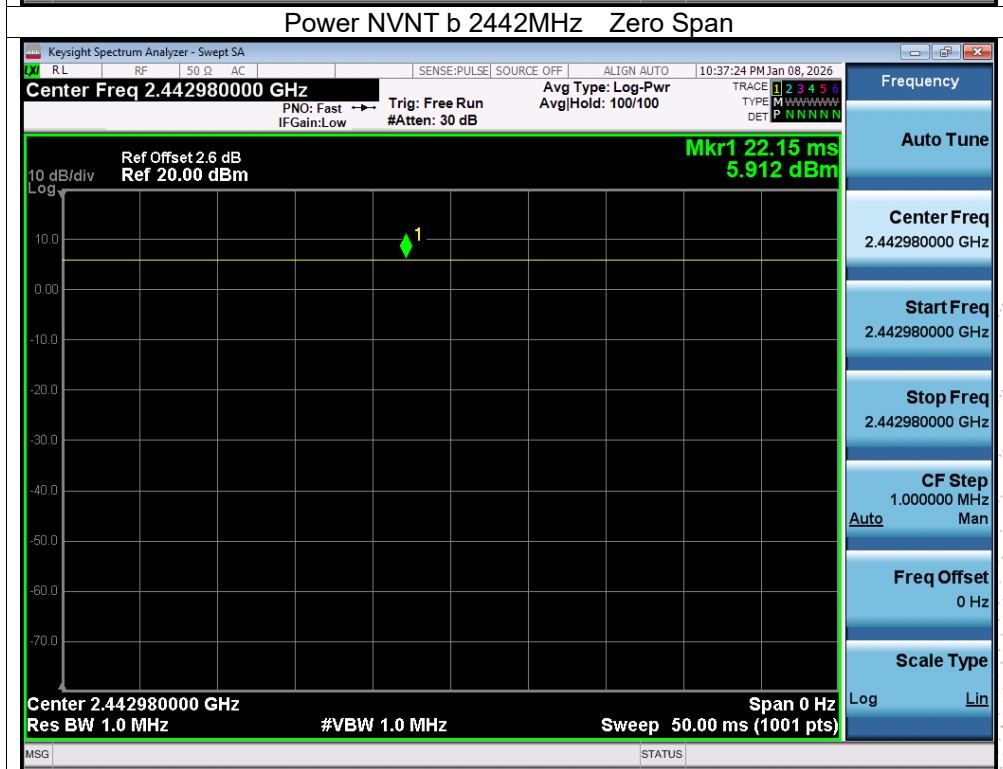
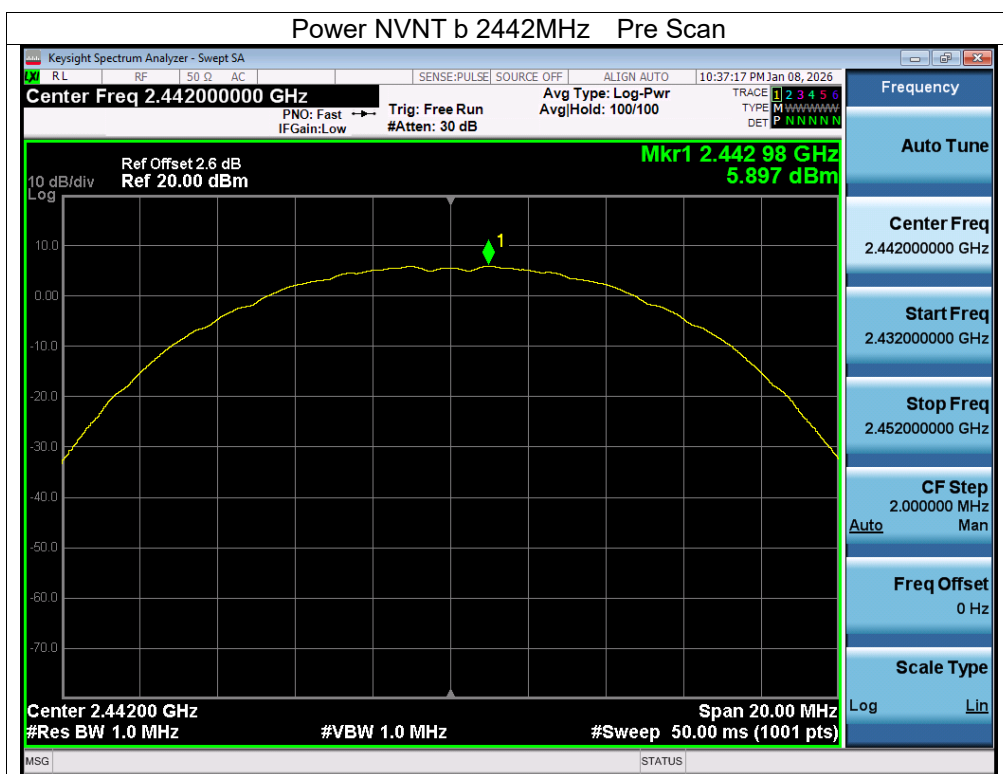
Trace Mode: Max Hold

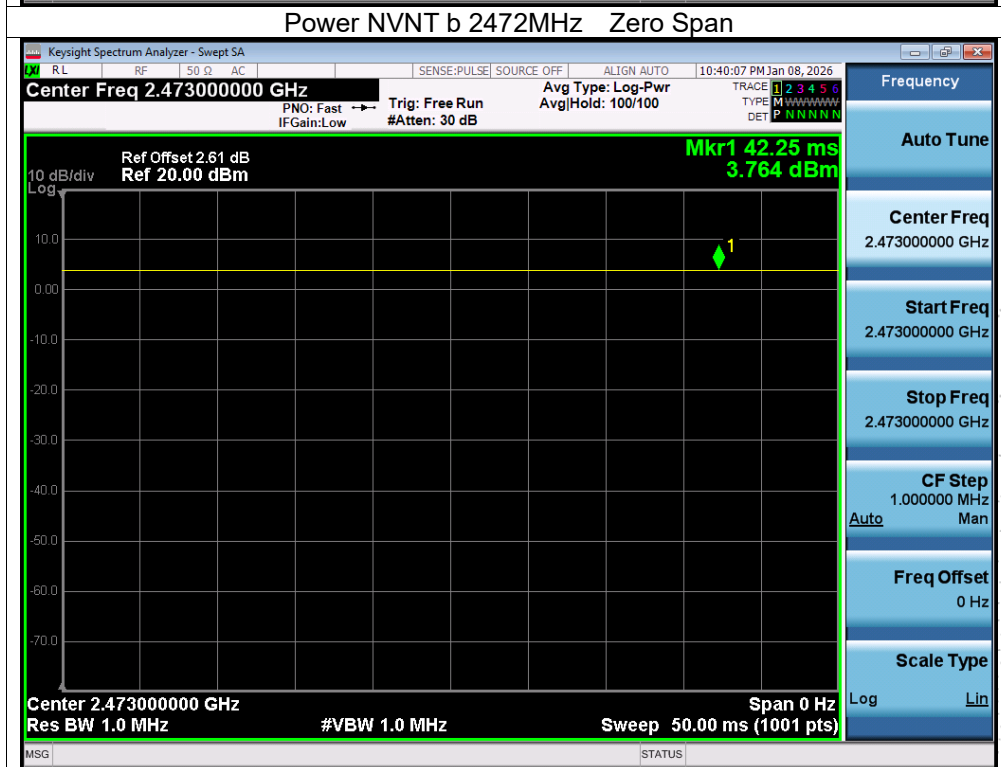
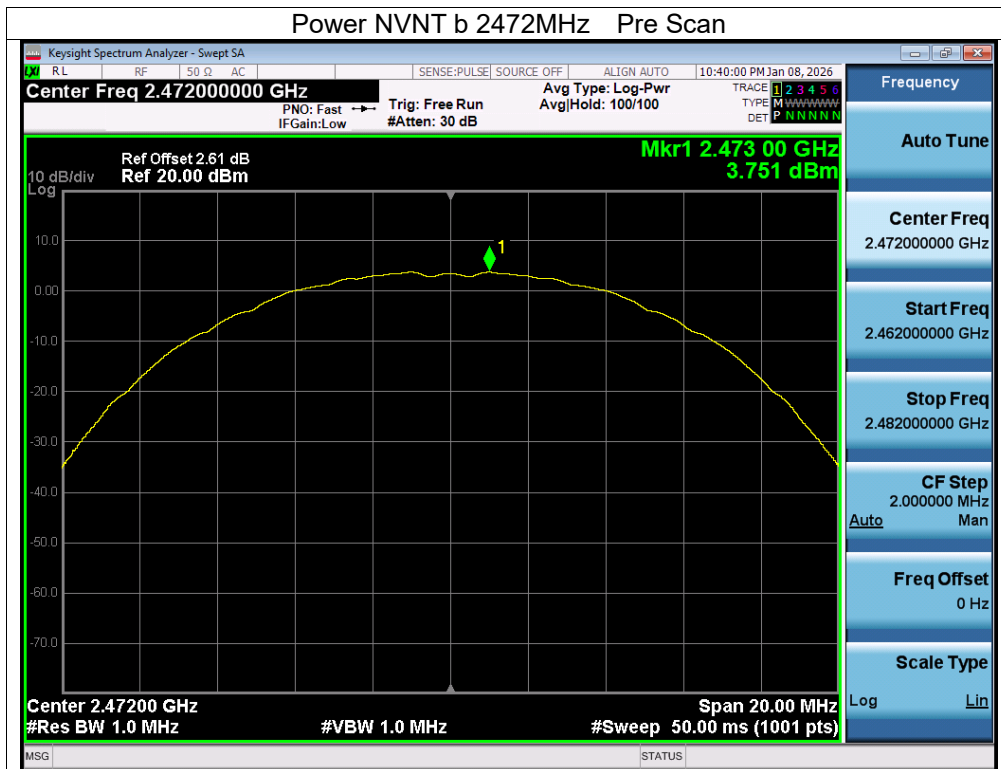
8.4 Test Result

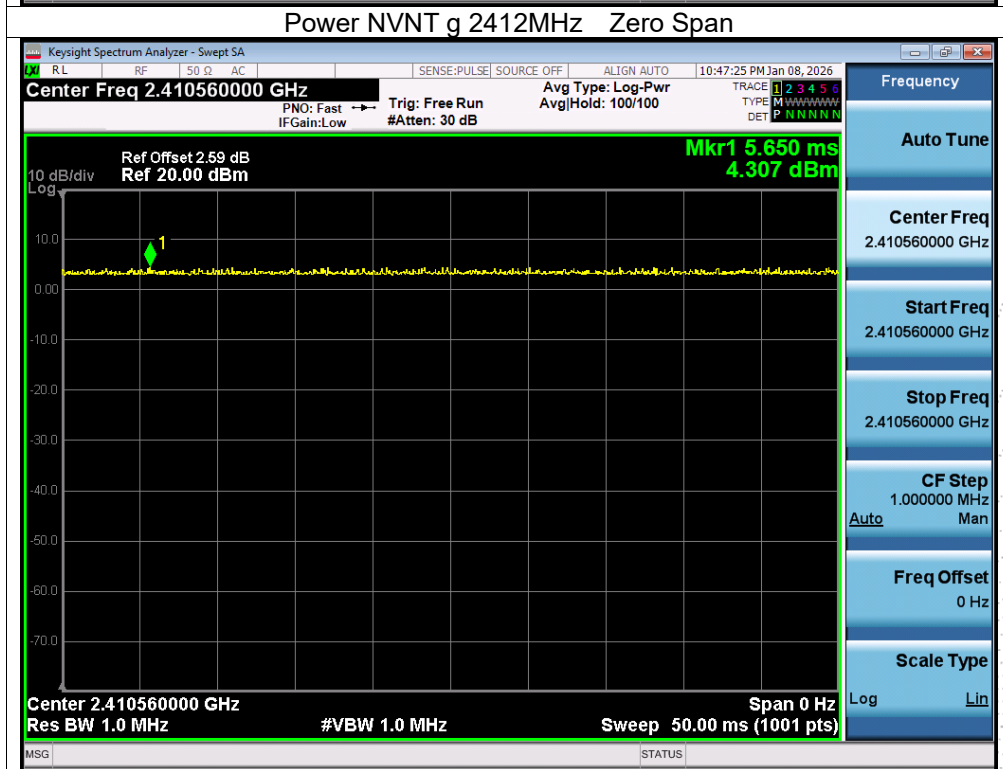
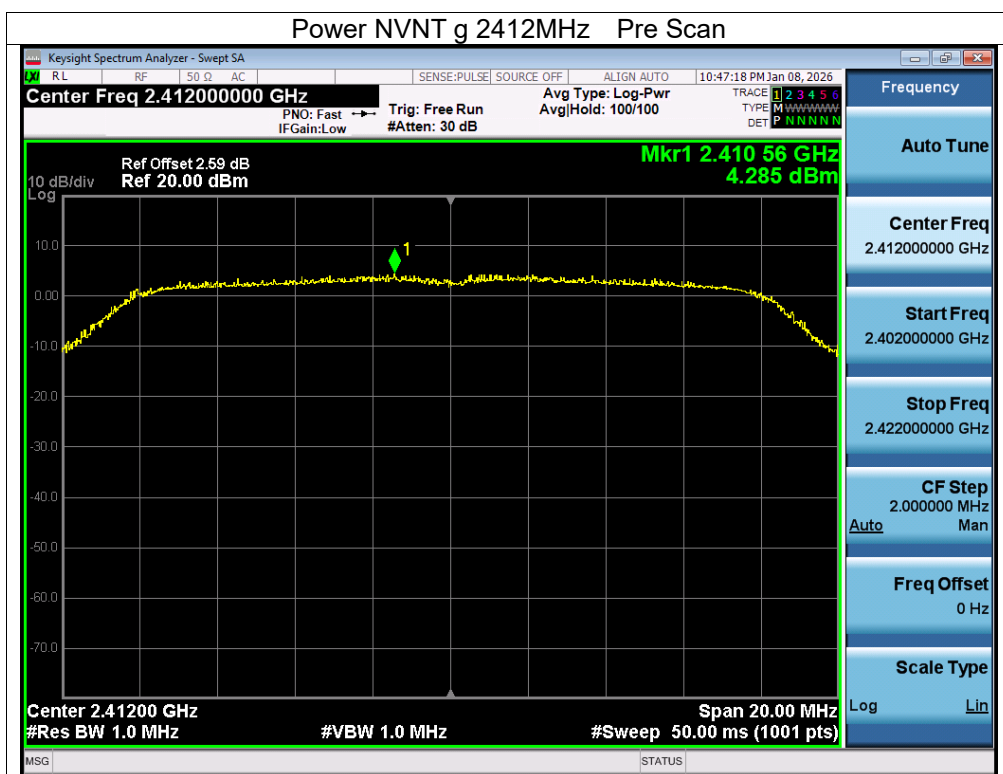
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Condition:	NVNT		

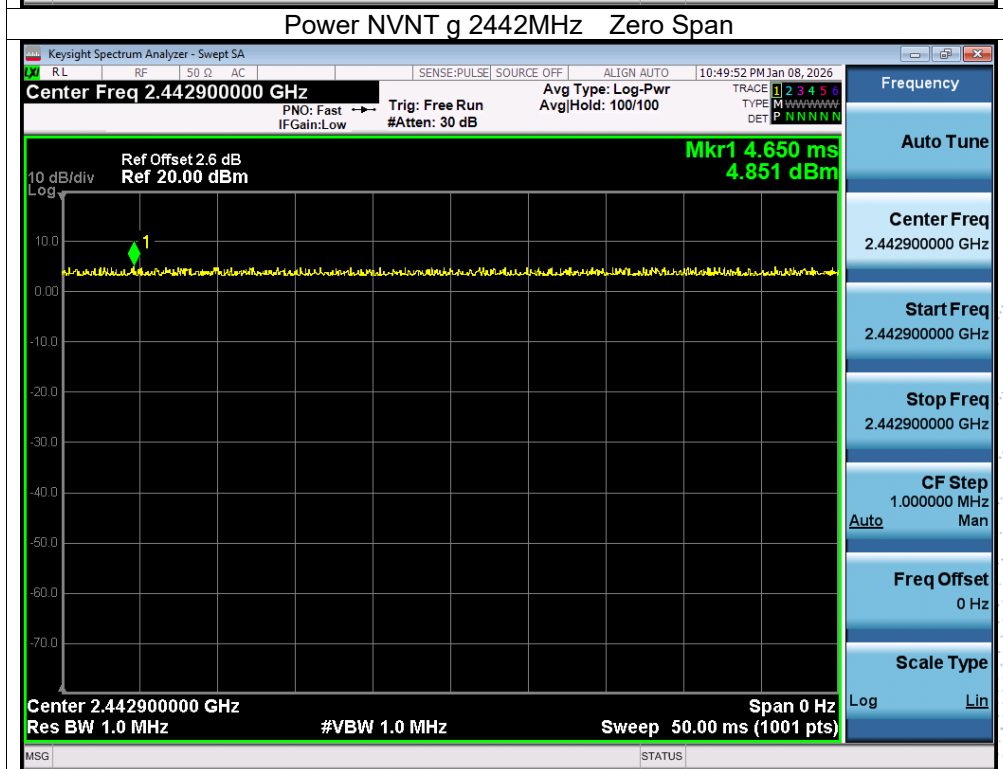
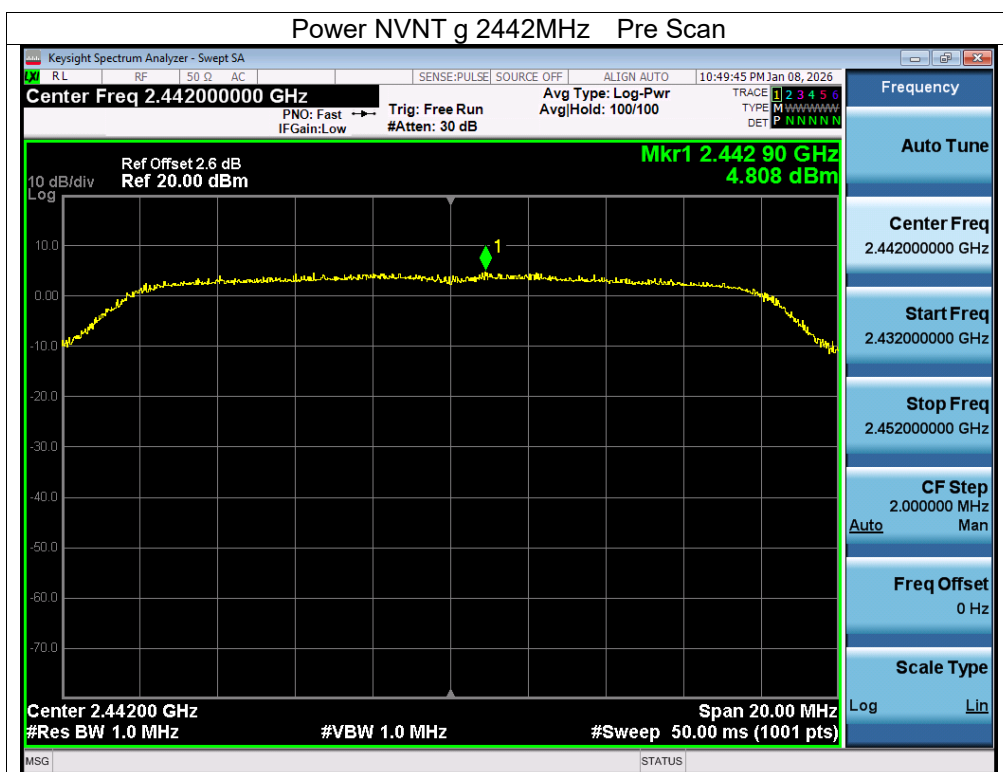
Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Verdict	
802.11b	2412	5.74	3.75	4	-6	10mW/MHz +20%, No Lower Limit	PASS	
	2442	5.91	3.90		-3			
	2472	3.76	2.38		-41			
802.11g	2412	4.31	2.70	3	-10			
	2442	4.85	3.05		2			
	2472	4.00	2.51		-16			
802.11n (HT20)	2412	3.56	2.27	2.5	-9			
	2442	3.36	2.17		-13			
	2472	2.93	1.96		-21			
802.11n (HT40)	2422	1.98	1.58	1.5	5	5mW/MHz +20%, No Lower Limit		
	2442	1.88	1.54		3			
	2462	1.76	1.50		0			
802.11ax (HE20)	2412	3.66	2.32	2.5	-7	10mW/MHz +20%, No Lower Limit		
	2442	4.03	2.53		1			
	2472	2.93	1.96		-21			
802.11ax (HE40)	2422	1.61	1.45	1.5	-3	5mW/MHz +20%, No Lower Limit		
	2442	1.57	1.44		-4			
	2462	1.38	1.37		-8			

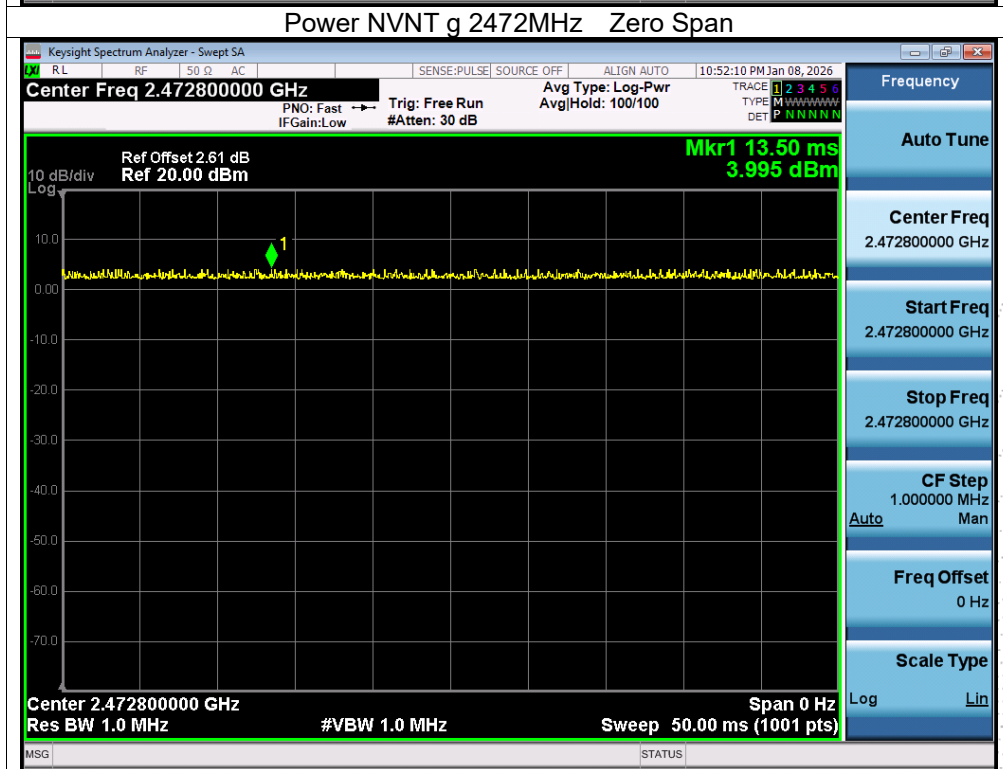
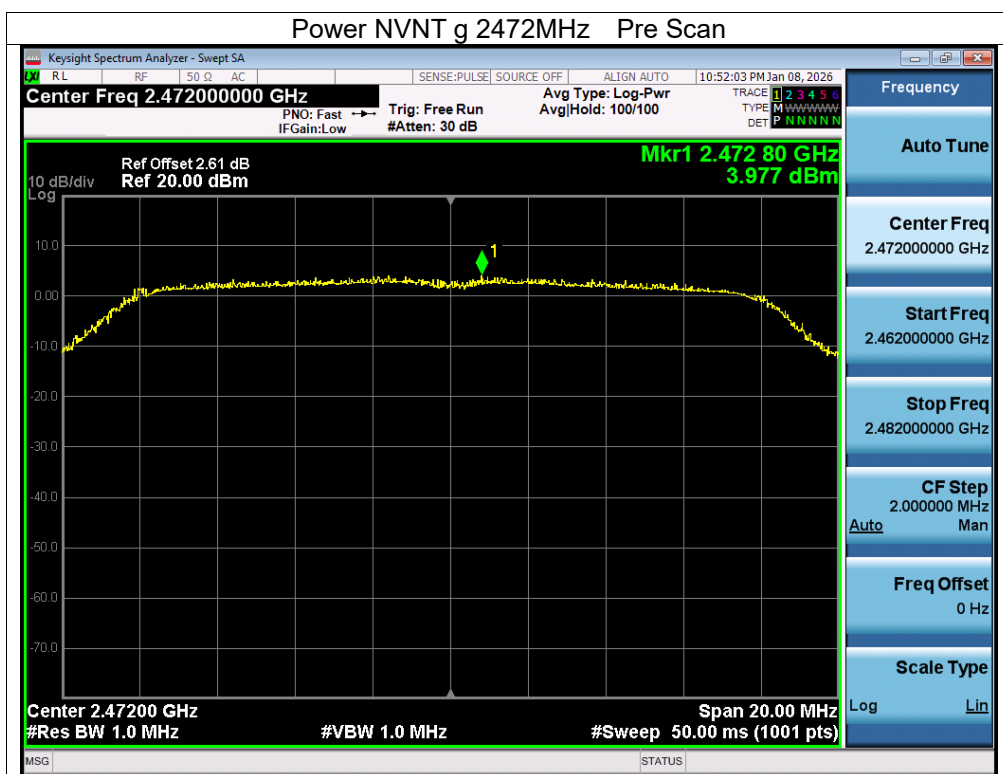


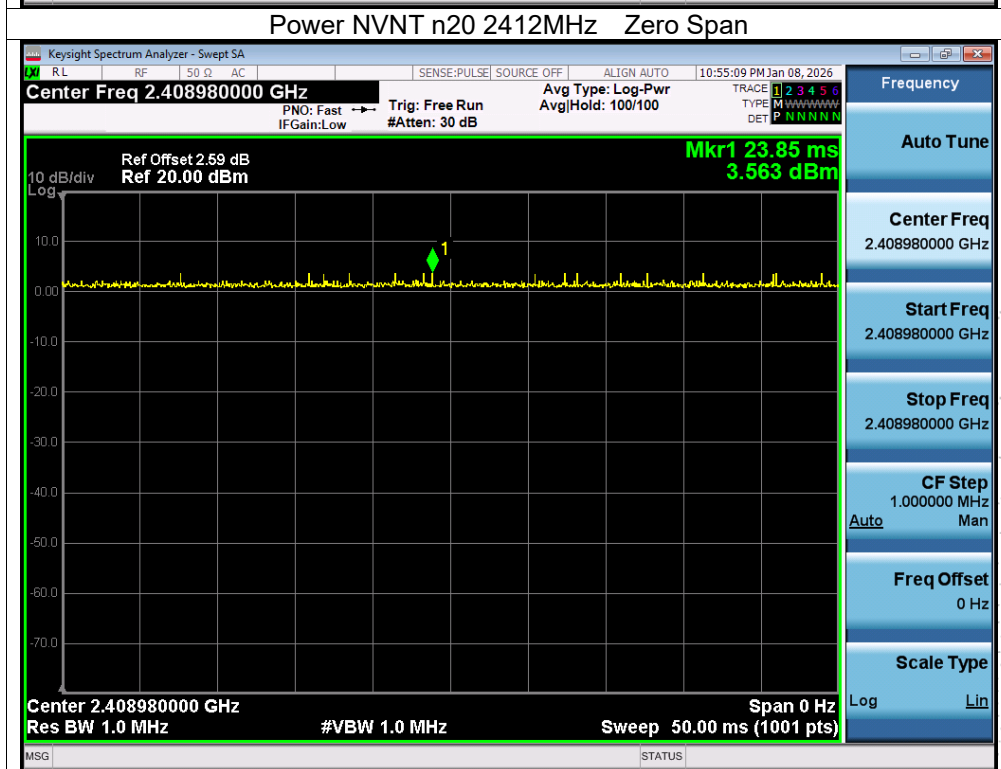
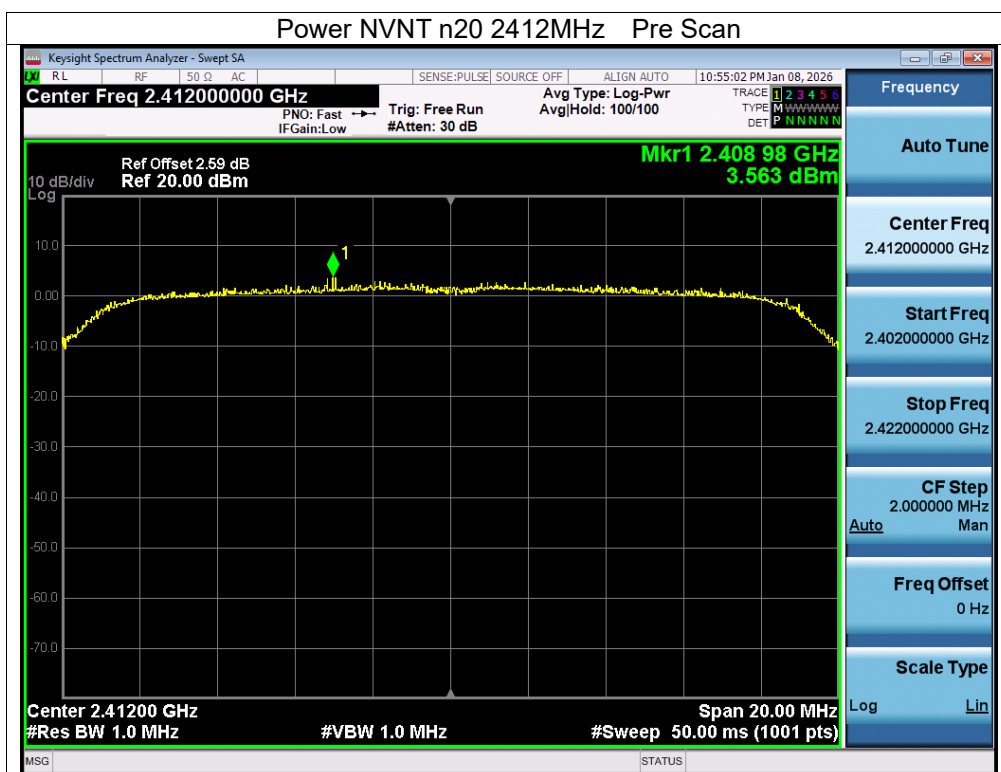


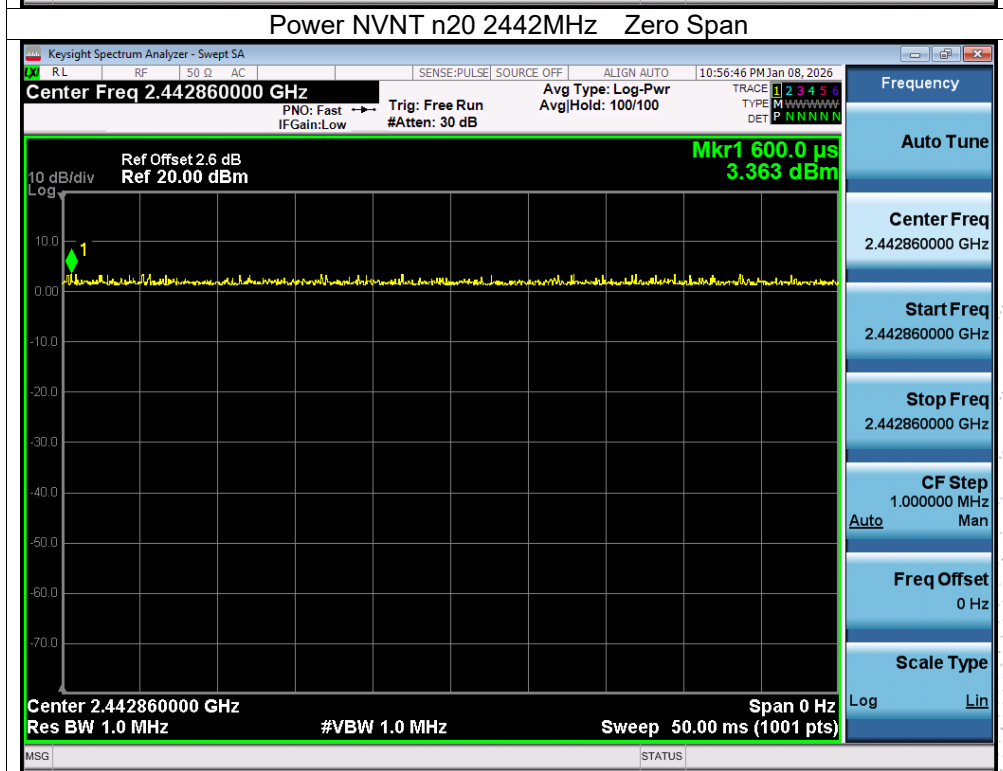
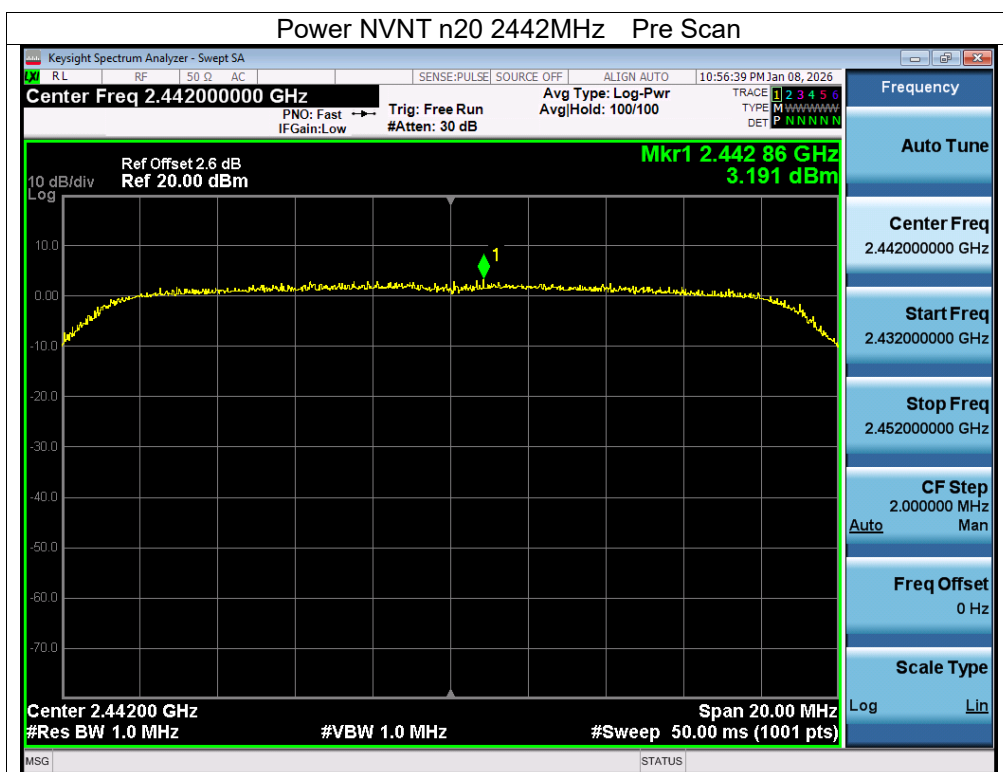


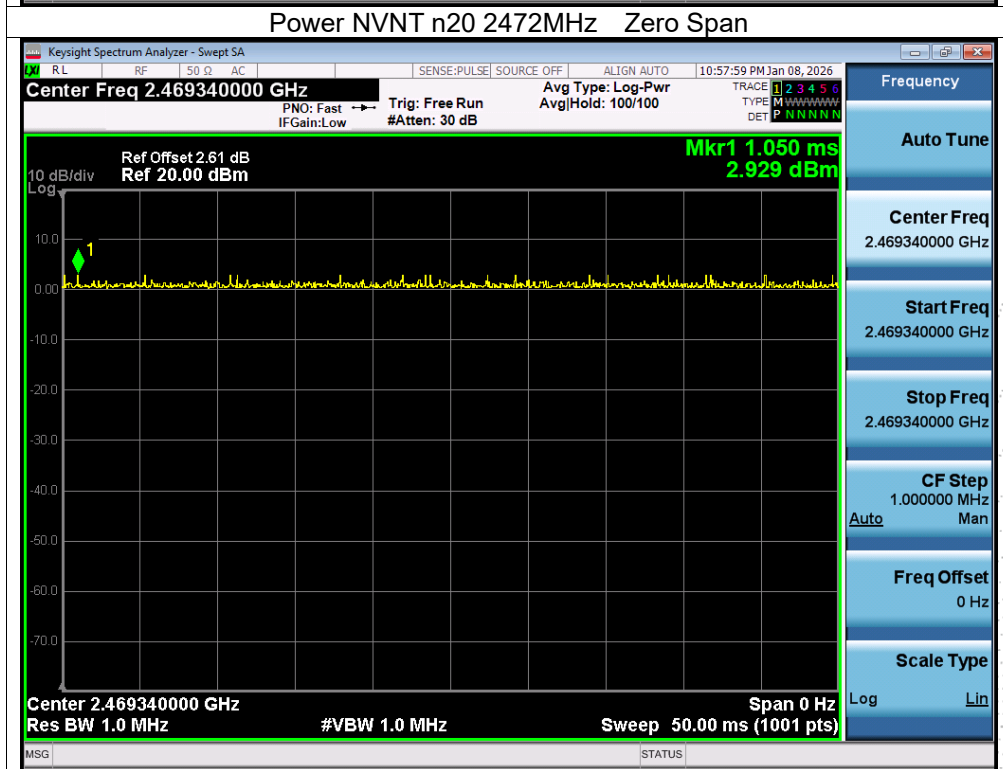
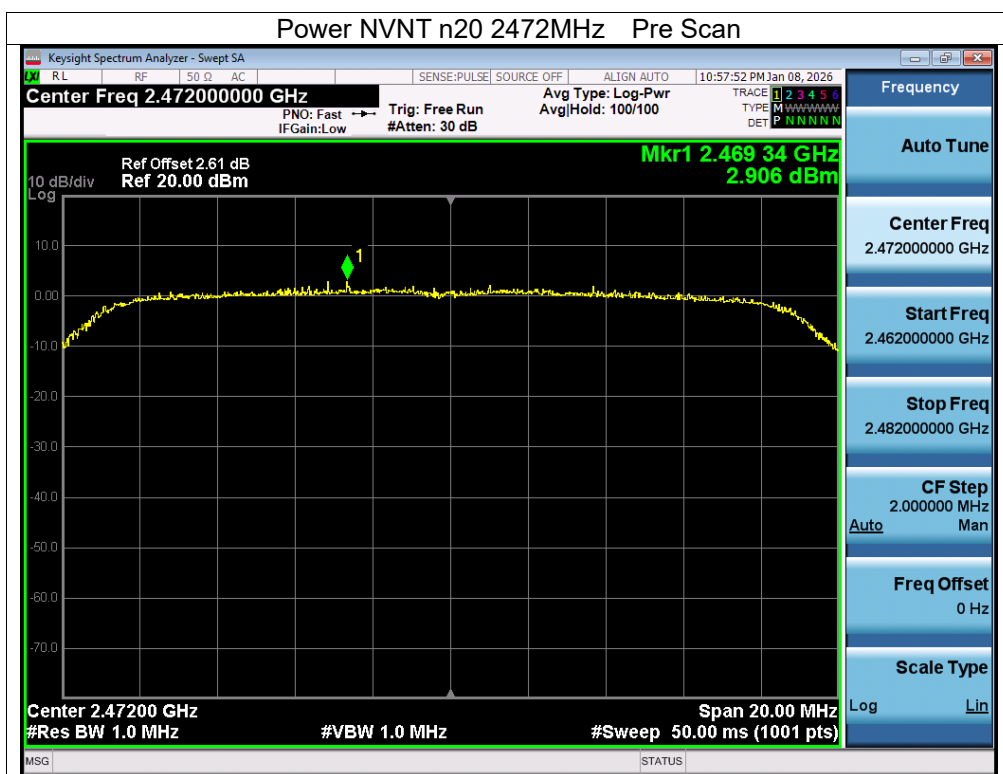


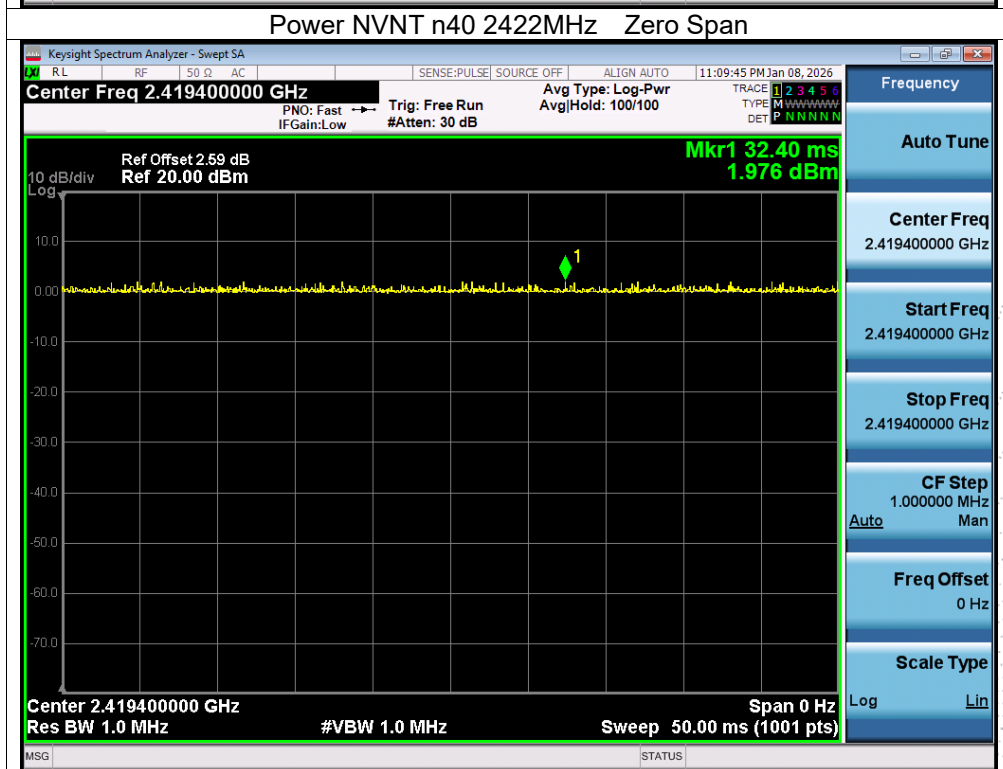
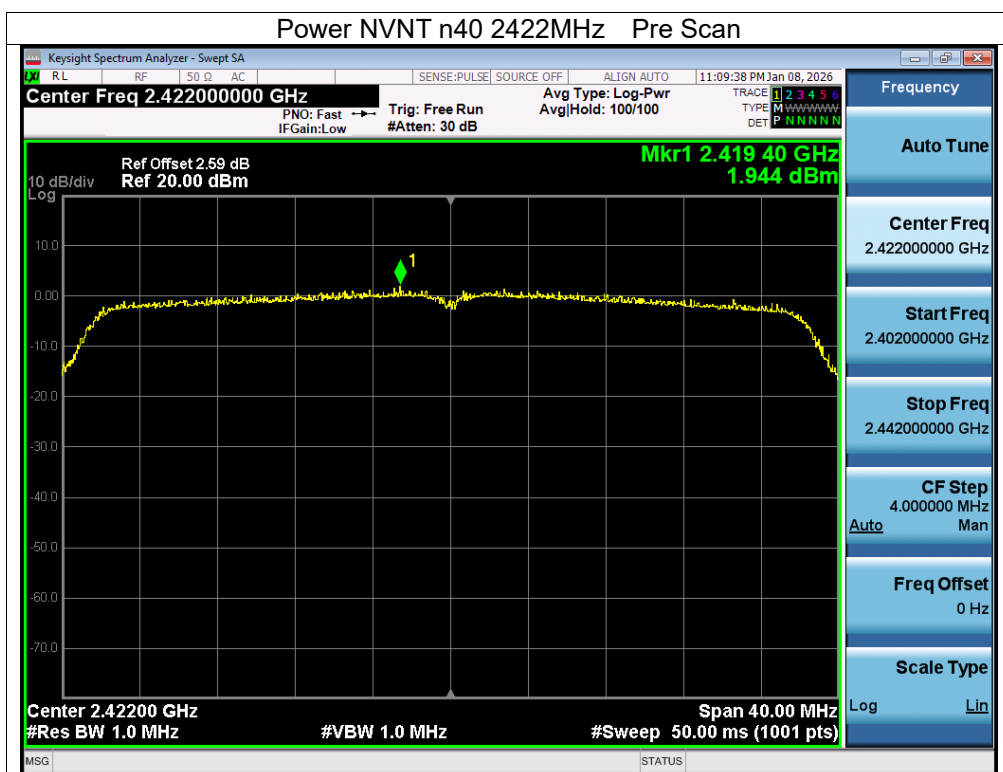




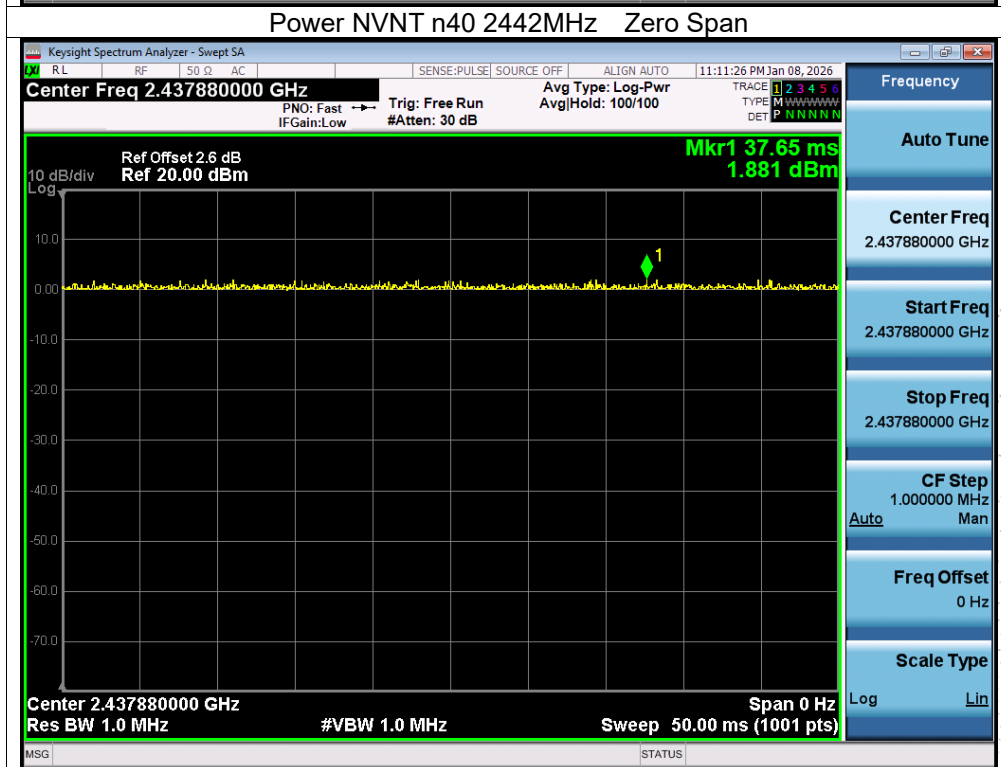
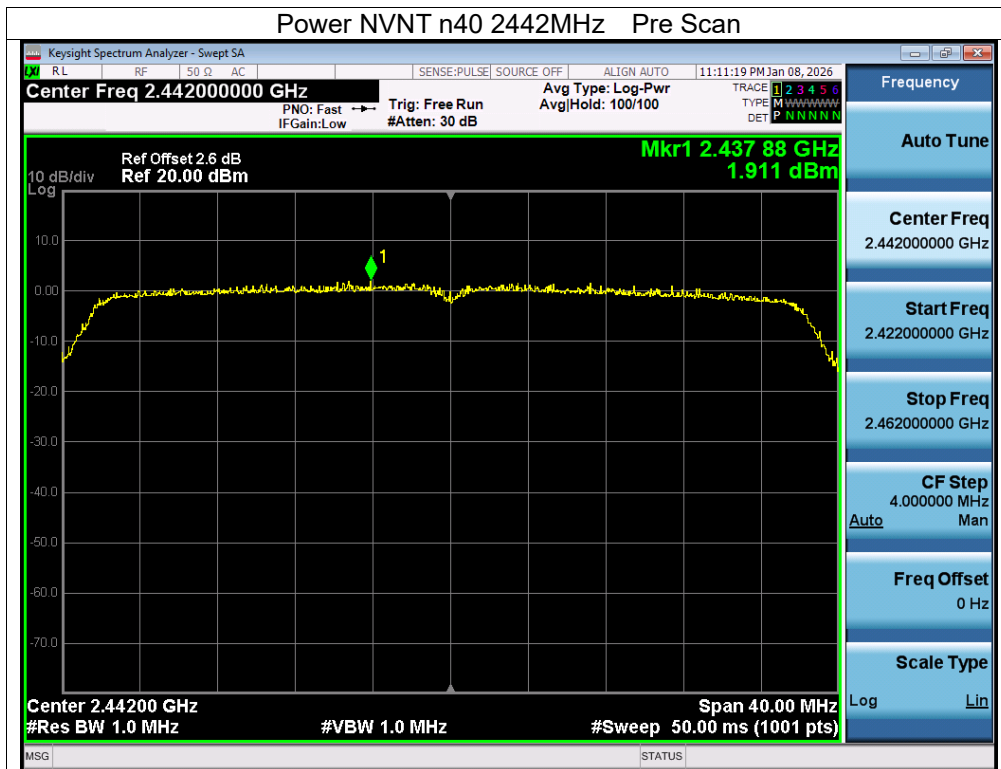


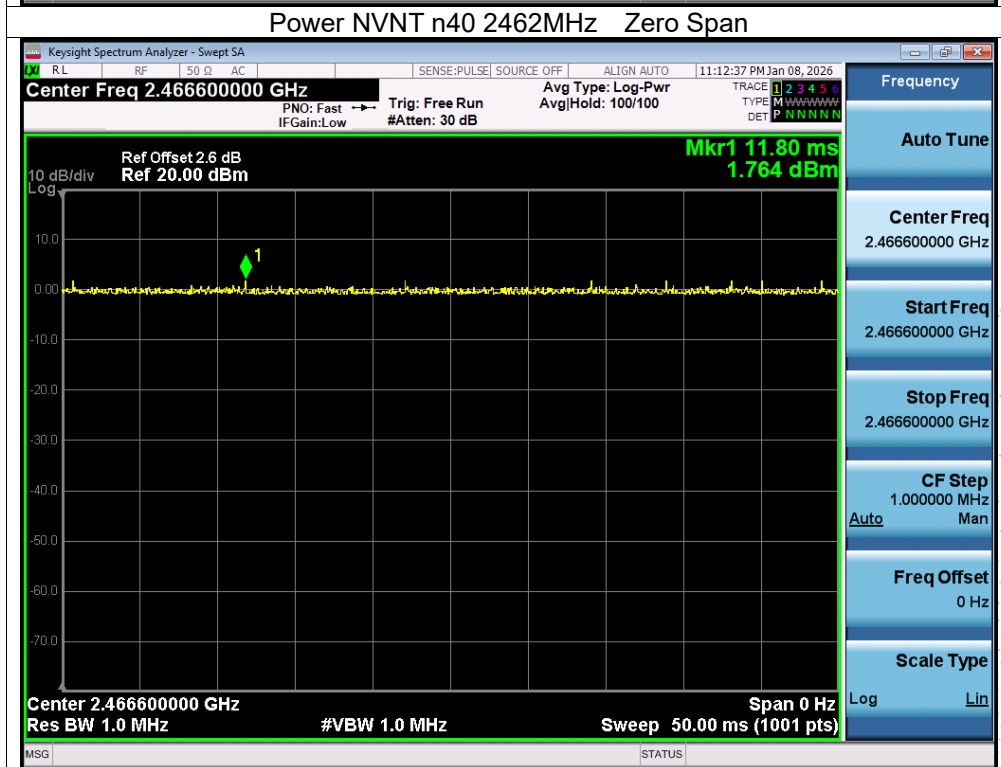
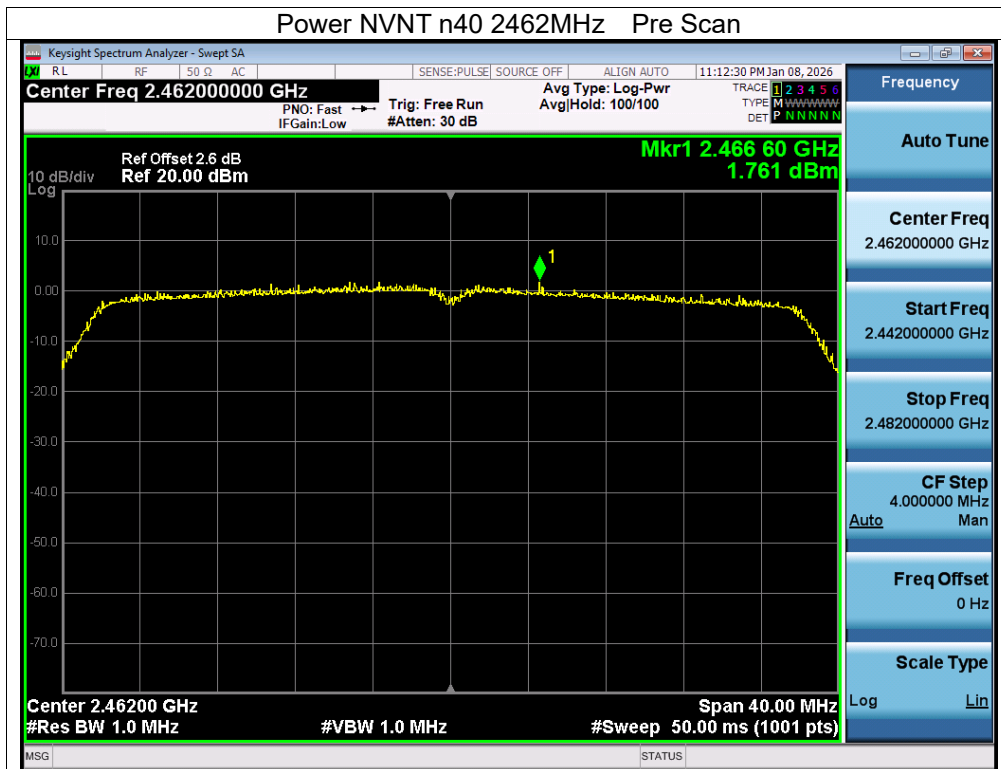


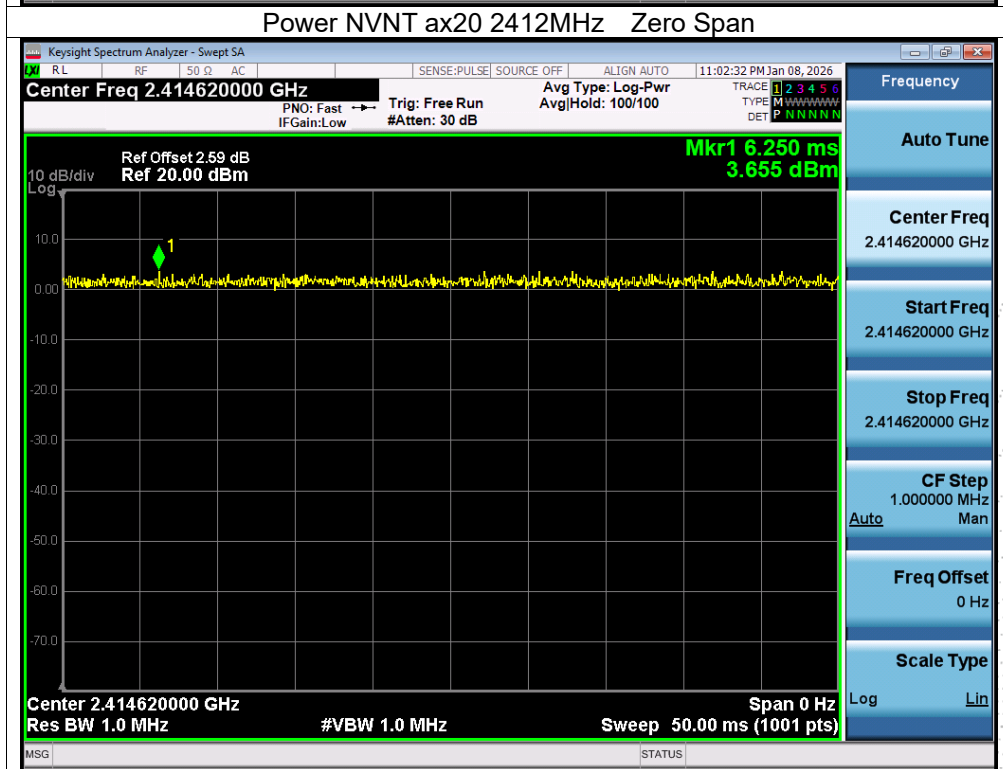
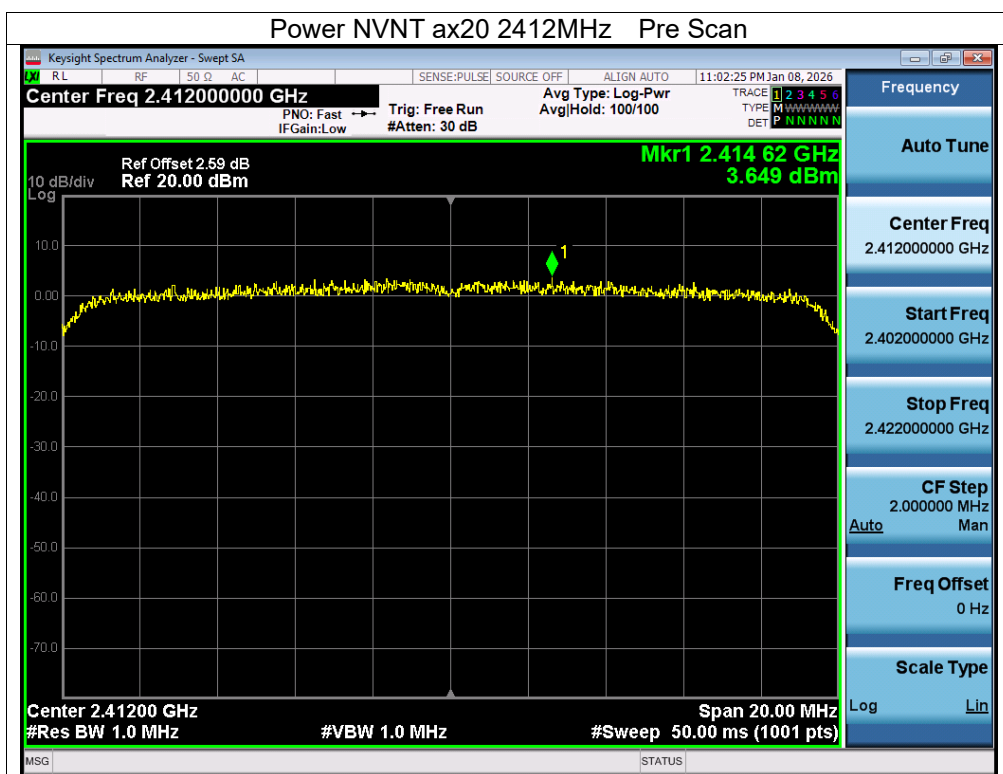


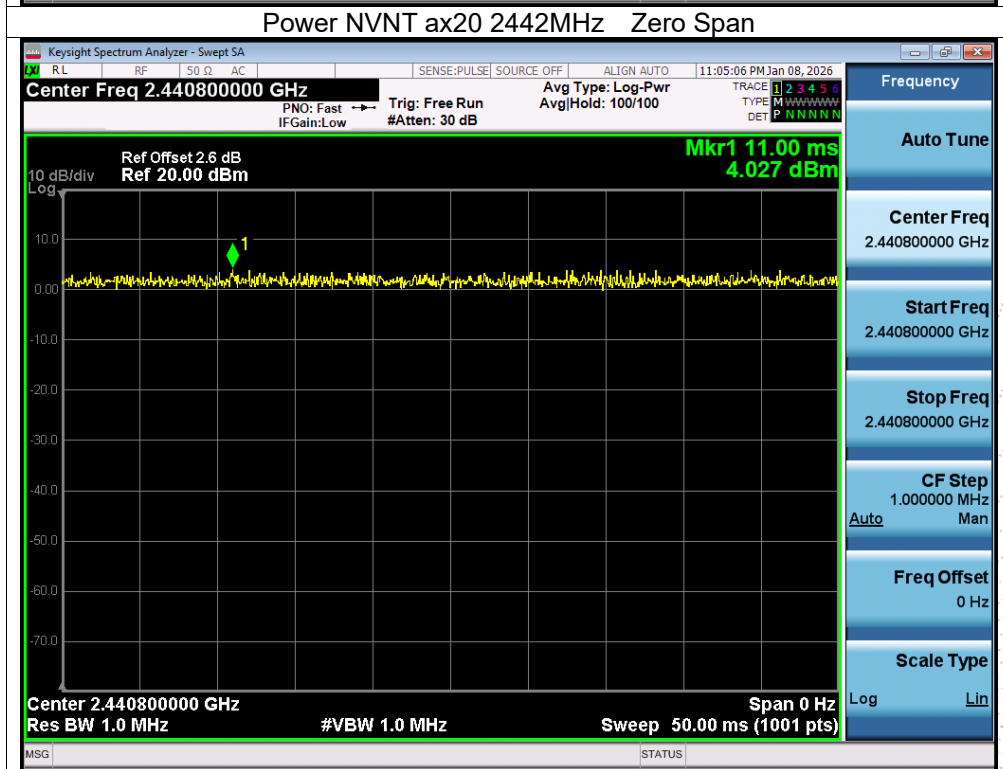
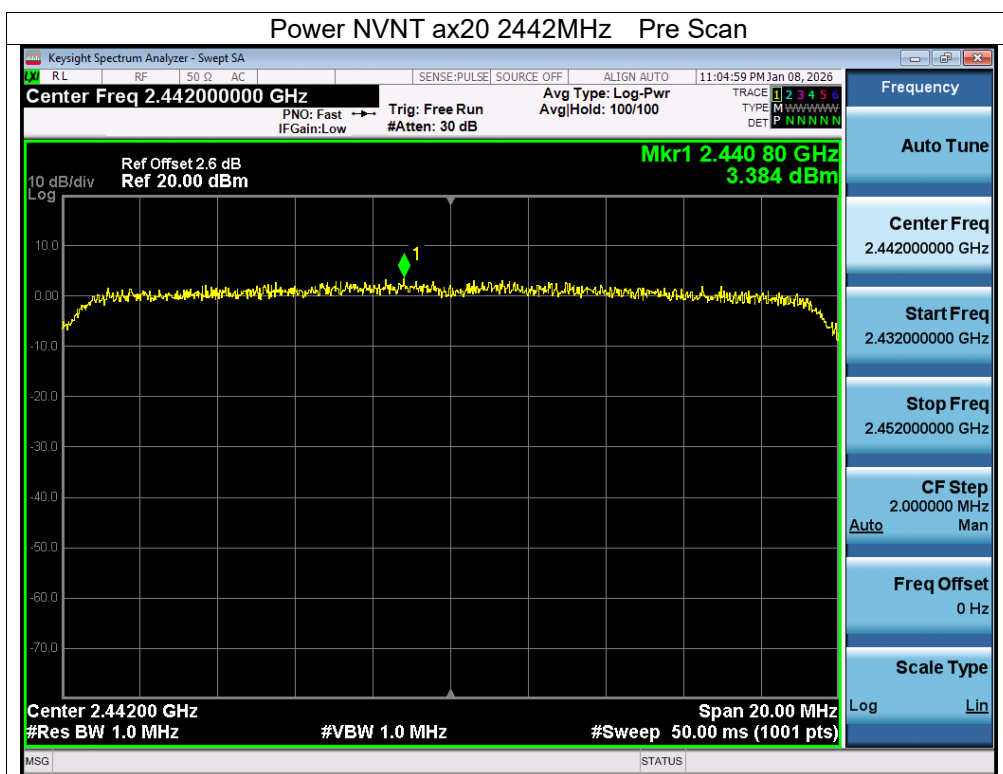


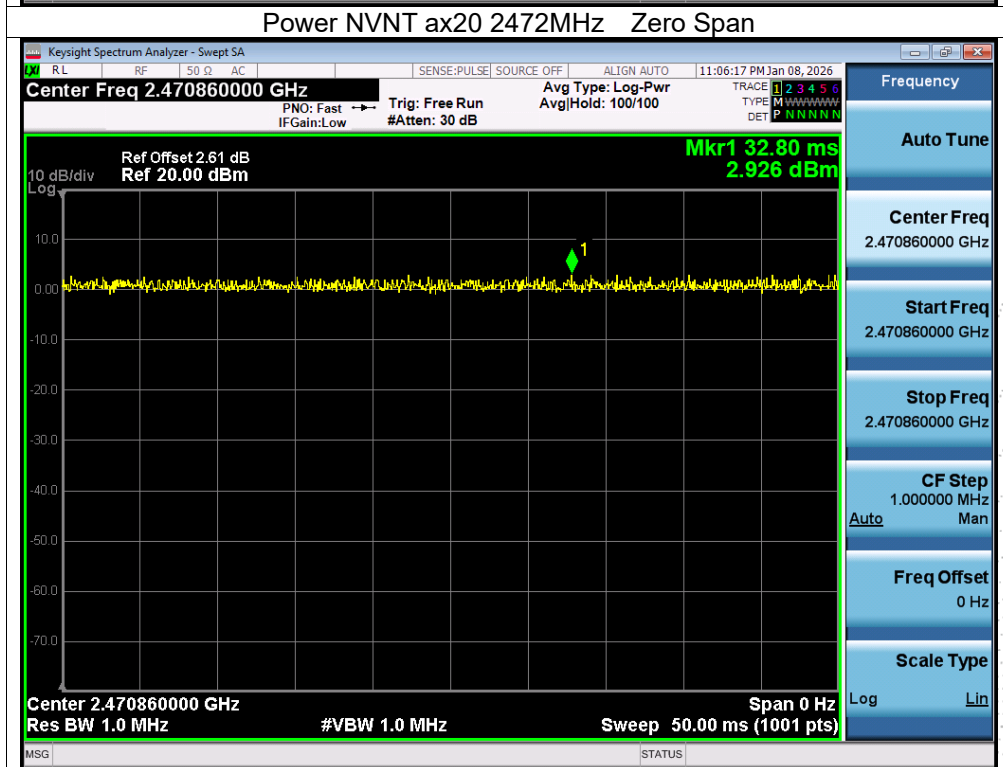
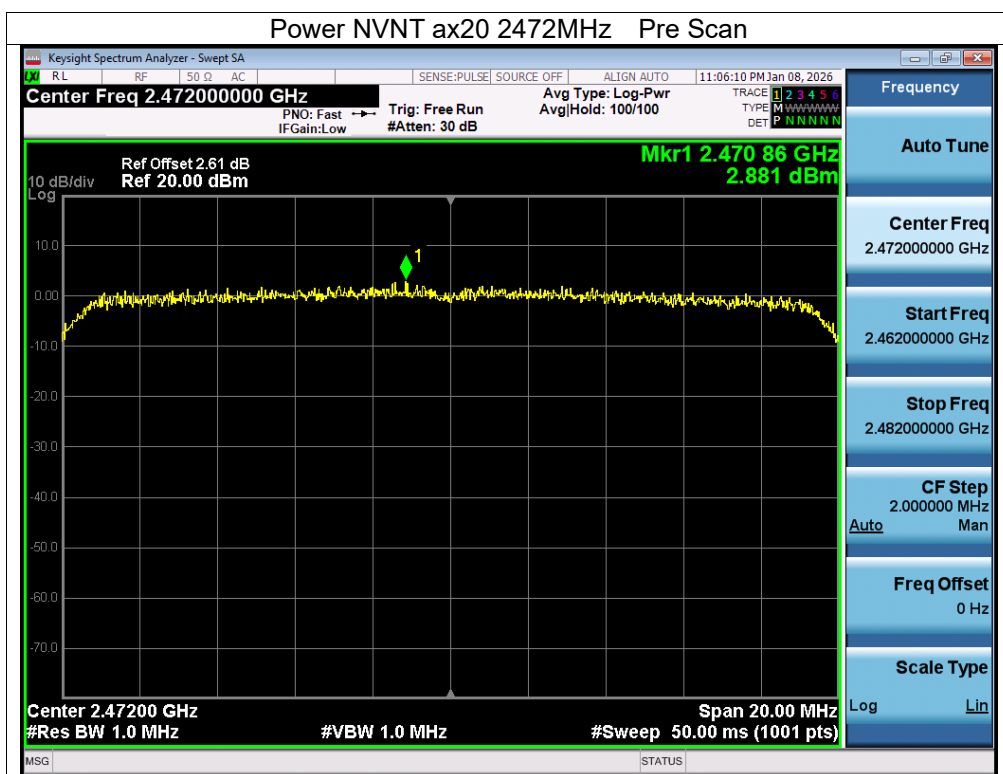
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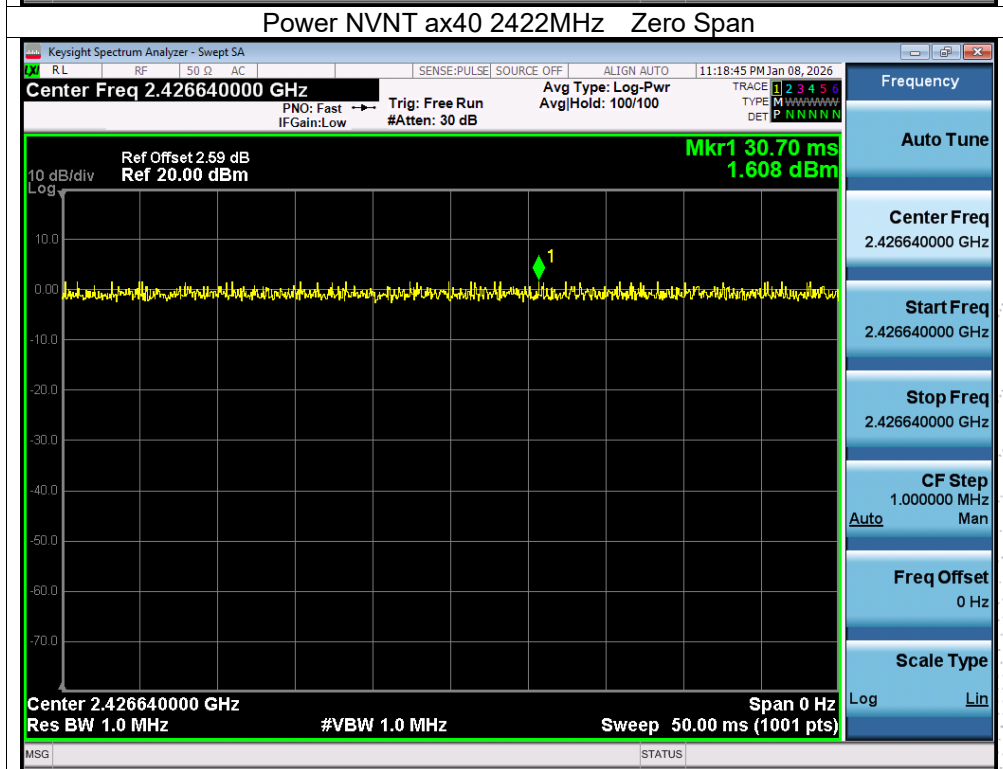
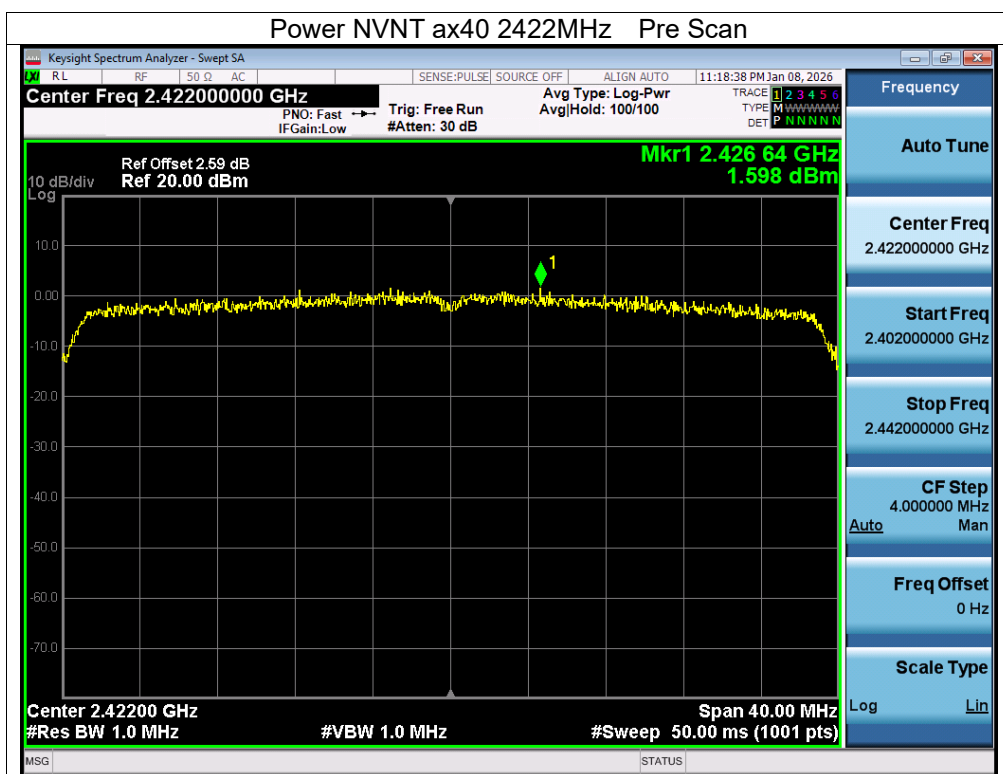




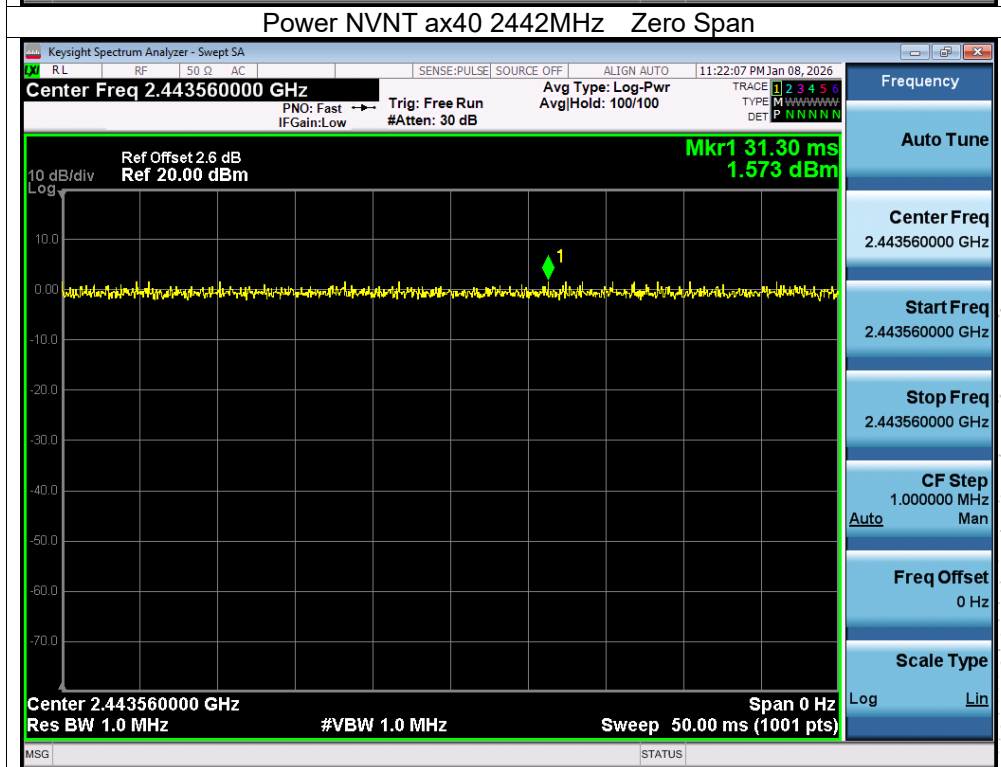
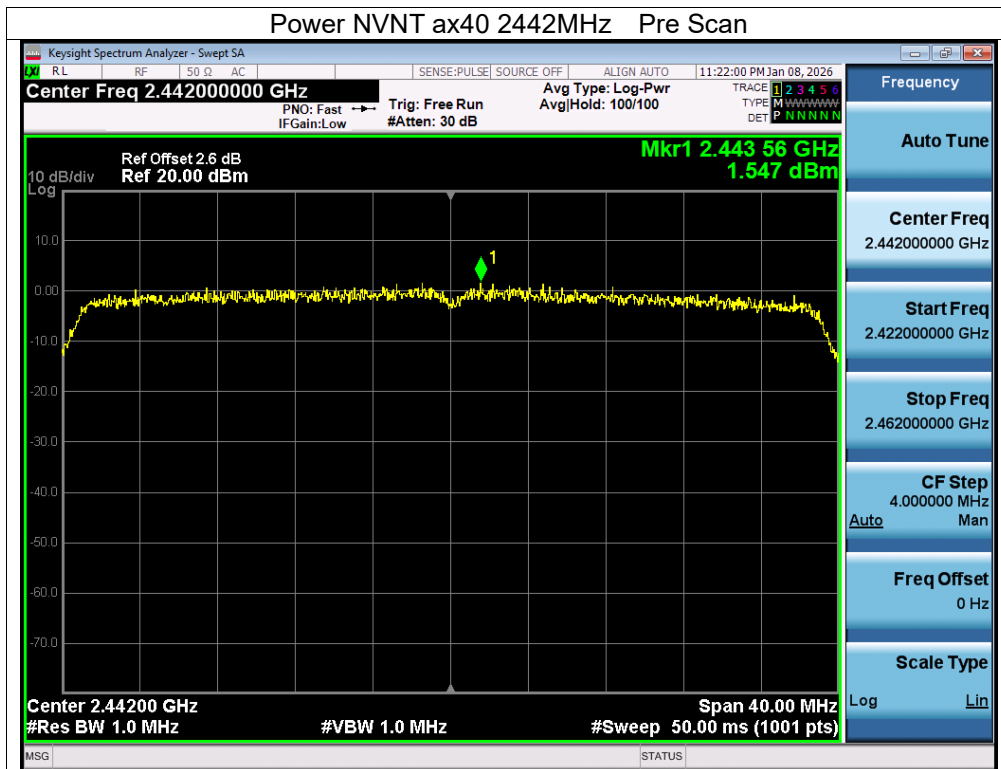


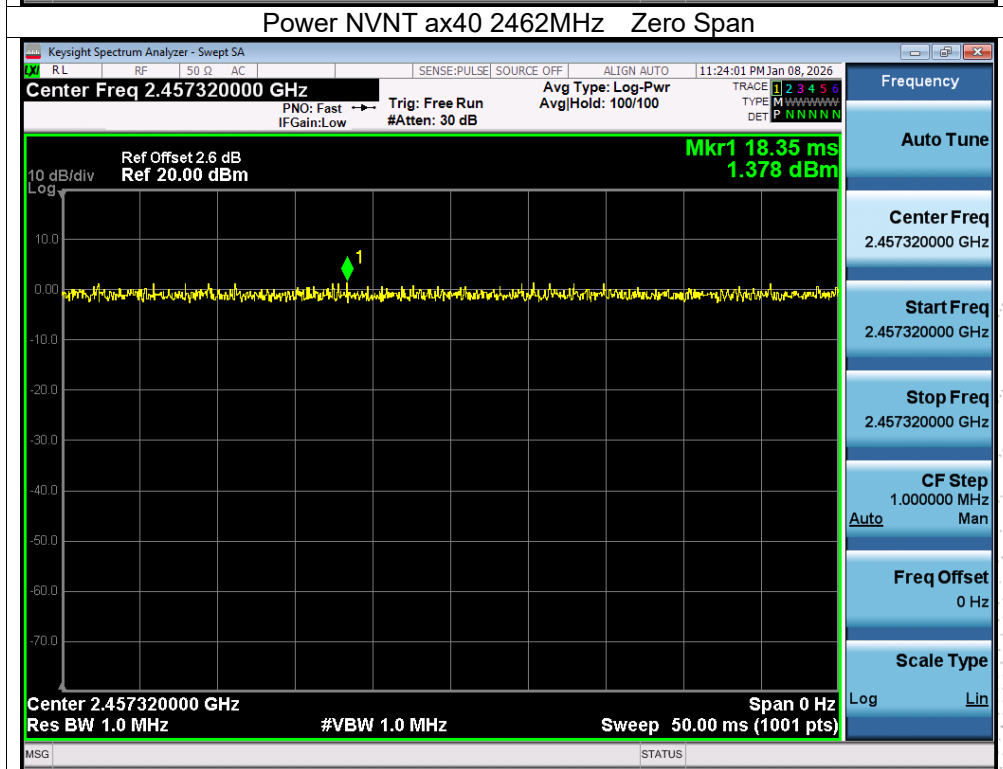
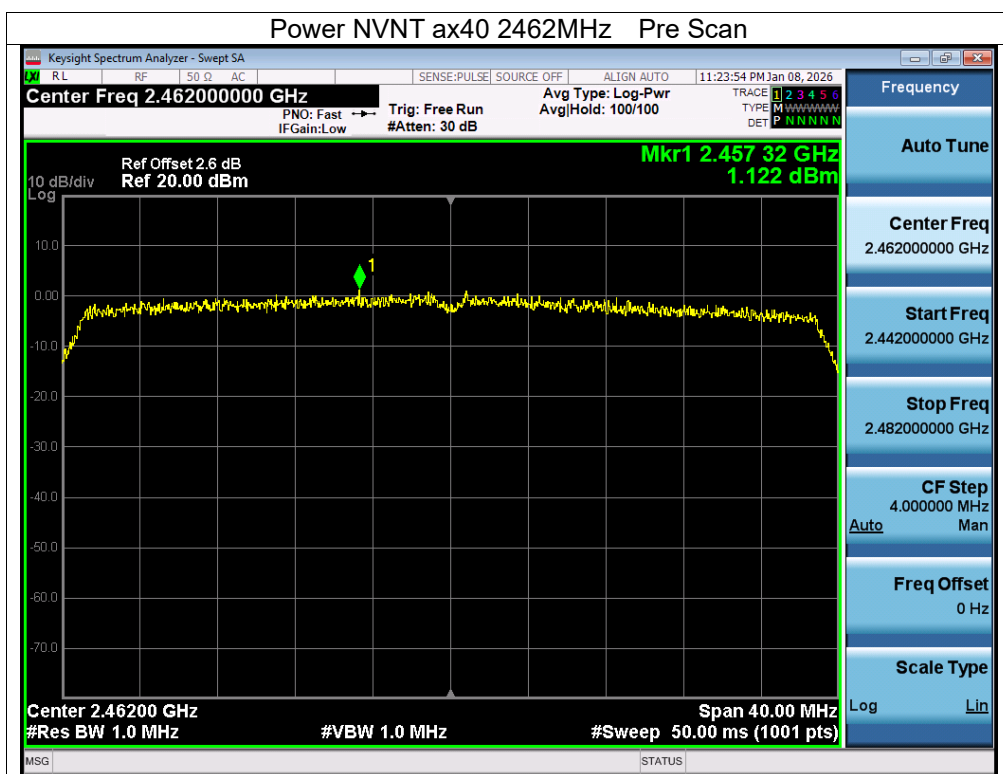






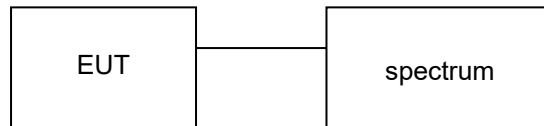
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9. Occupied Bandwidth And Spread-Spectrum Bandwidth Measurement

9.1 Block Diagram Of Test Setup



9.2 Limit

Item	Limits
Occupied Band Width:	802.11b,g,n(HT20),n(HT40): 26MHz or less

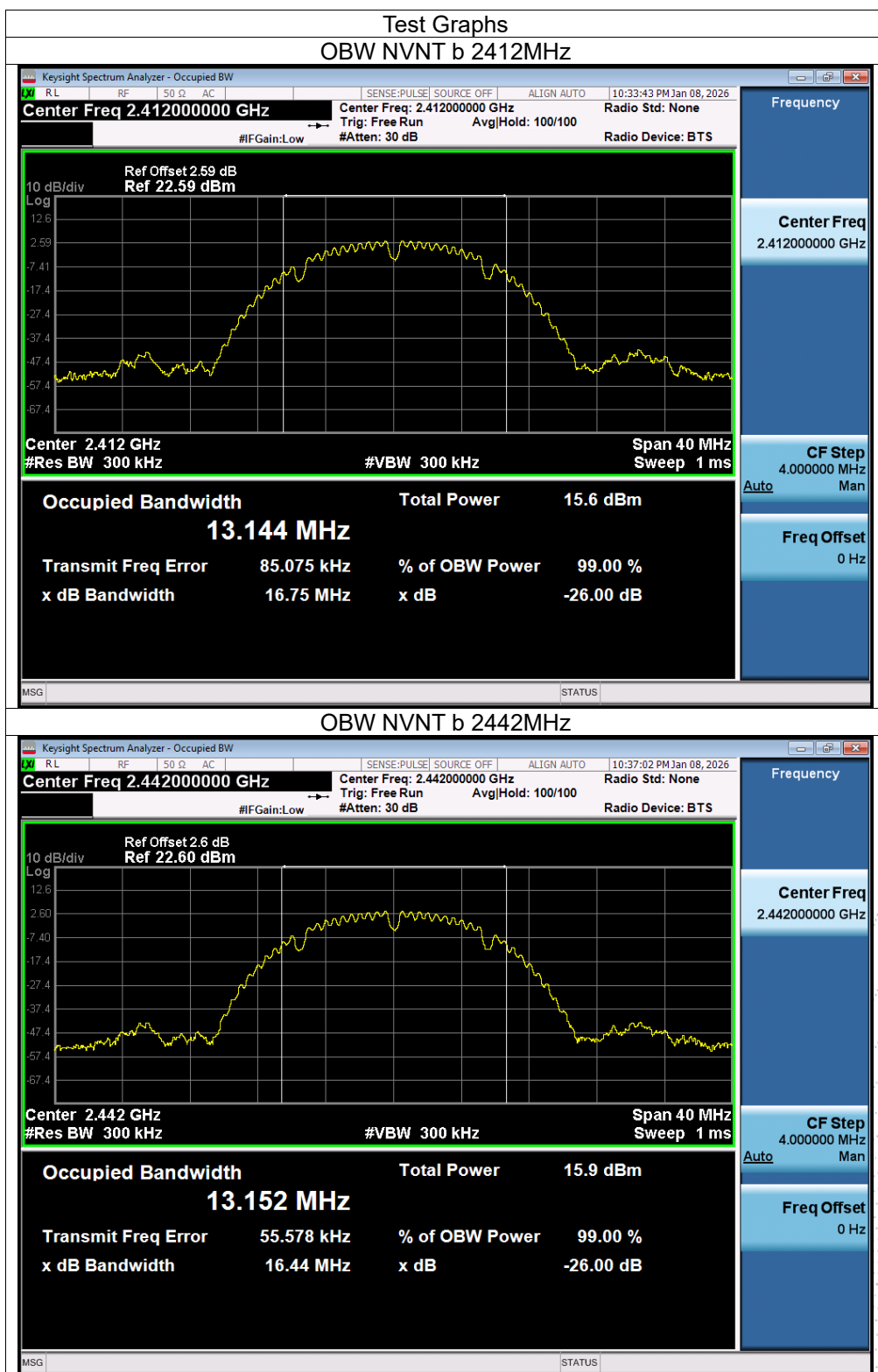
9.3 Test Procedure

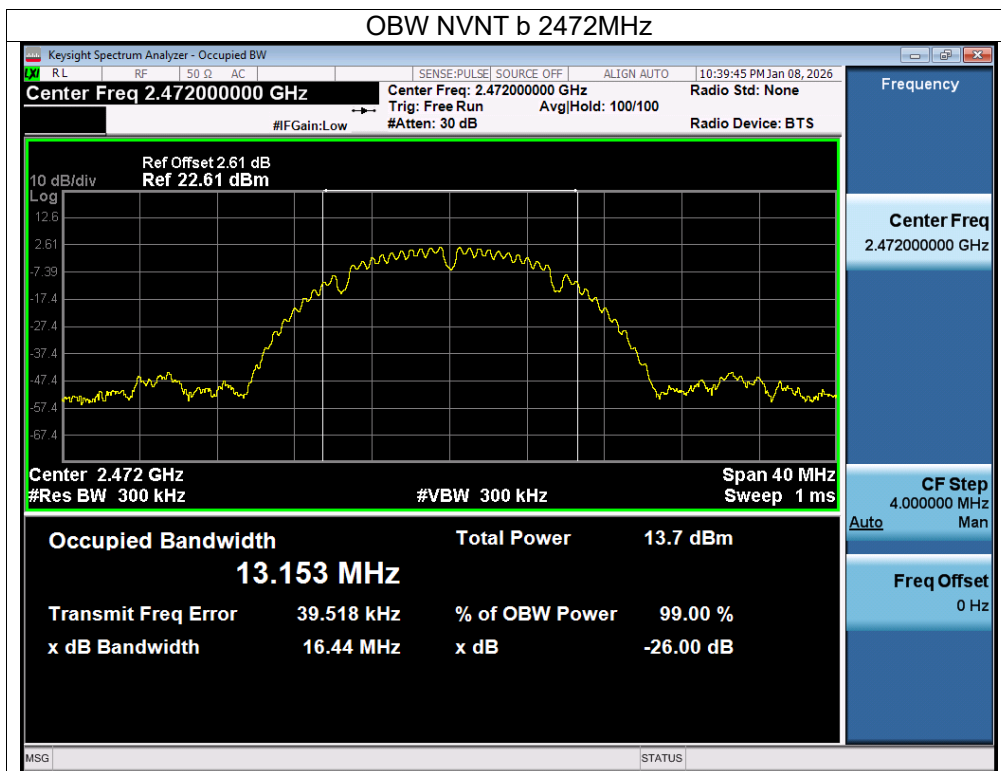
1. Setting of SA is following as: RB: 300kHz / VB:300kHz / SPAN: 40MHz / AT: 30dB / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum 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 DSSS or OFDM Device) or 83.5MHz (For FHSS Device).
3. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth.
4. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
5. Spread Spectrum Factor limit is greater than 5

9.4 Test Result

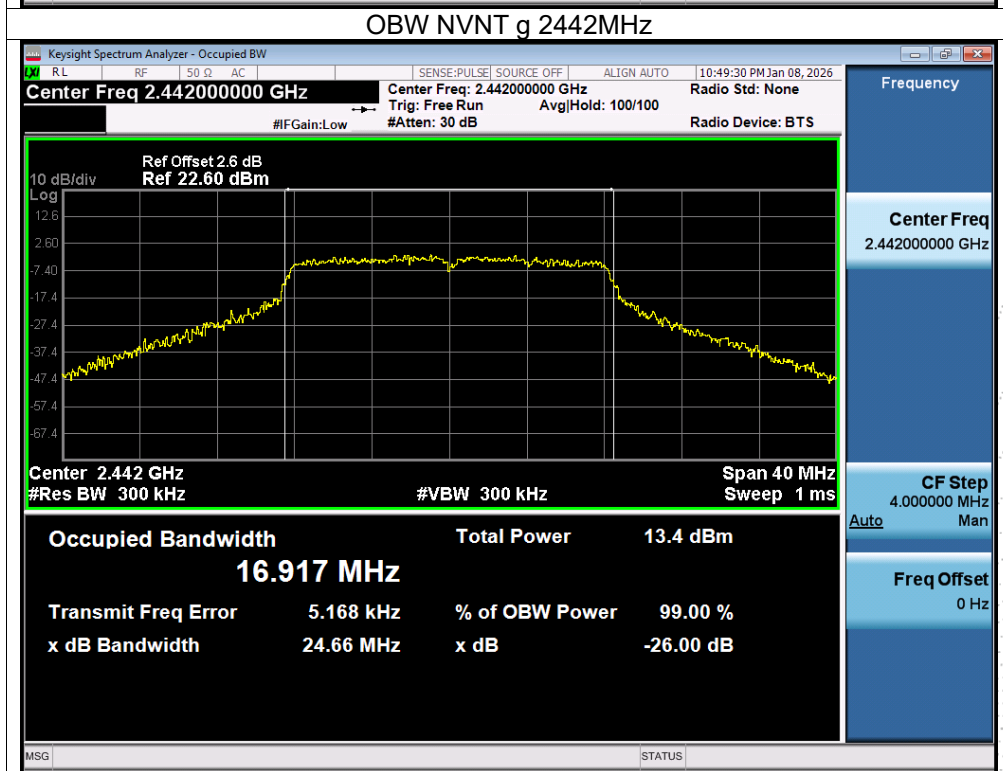
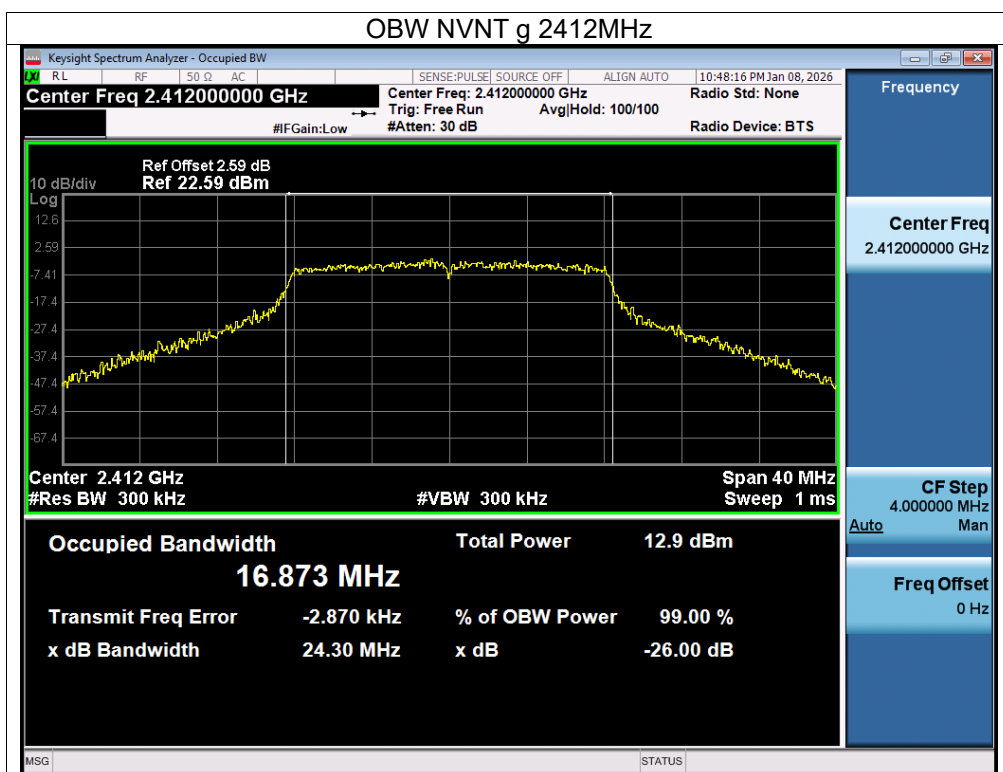
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Condition:	NVNT		

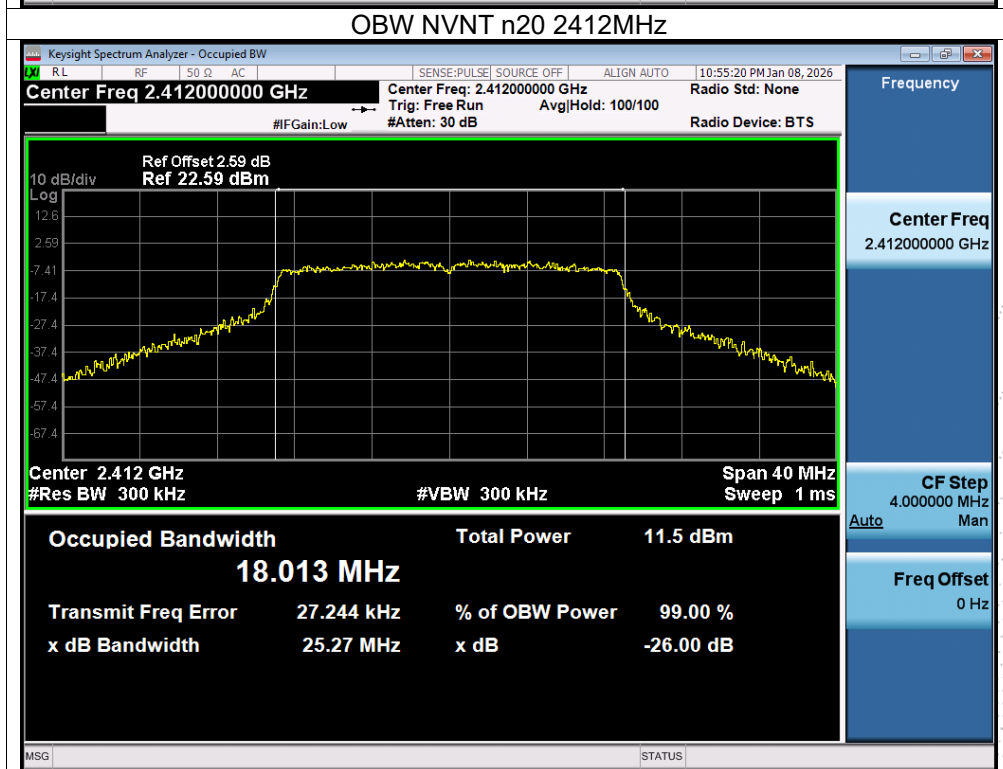
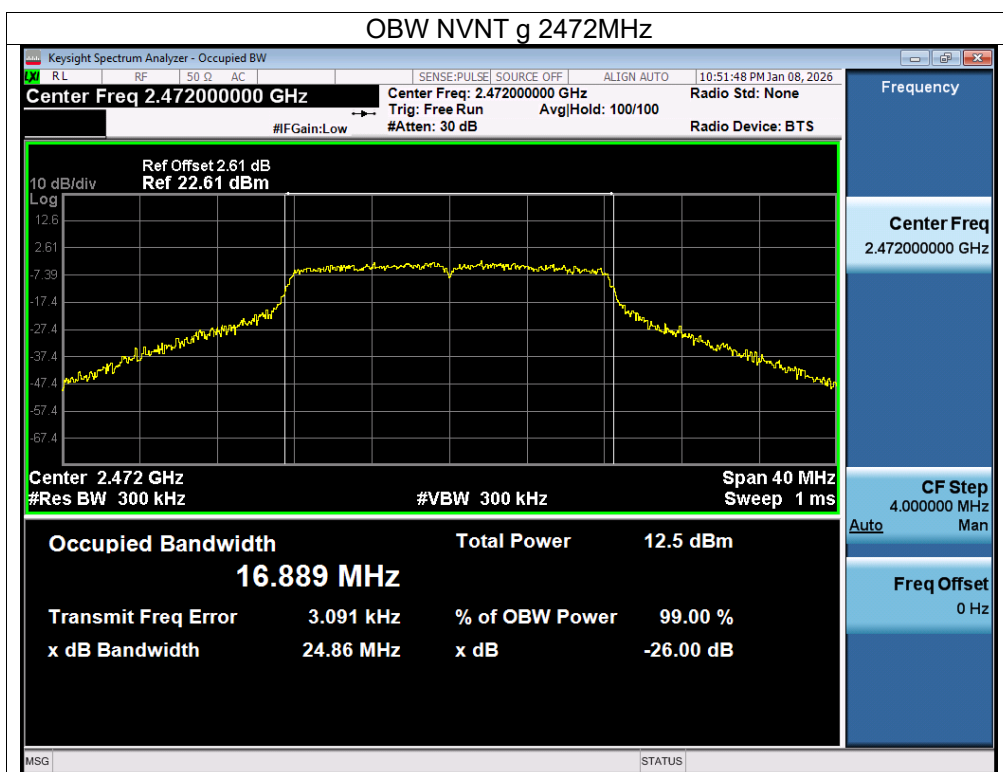
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	90% Occupied Bandwidth (MHz)	Spread Factor	Verdict
802.11b	2412	13.144	8.786	6.390	PASS
	2442	13.152	8.830	6.422	
	2472	13.153	8.833	6.424	
802.11g	2412	16.873	14.536	/	
	2442	16.917	14.537	/	
	2472	16.889	14.554	/	
802.11n (HT20)	2412	18.013	15.474	/	
	2442	18.072	15.607	/	
	2472	18.110	15.583	/	
802.11n (HT40)	2422	36.203	31.452	/	
	2442	36.205	31.838	/	
	2462	36.193	31.473	/	
802.11ax (HE20)	2412	19.097	16.529	/	
	2442	19.088	16.679	/	
	2472	19.181	16.664	/	
802.11ax (HE40)	2422	37.751	32.546	/	
	2442	37.755	33.325	/	
	2462	37.719	33.113	/	

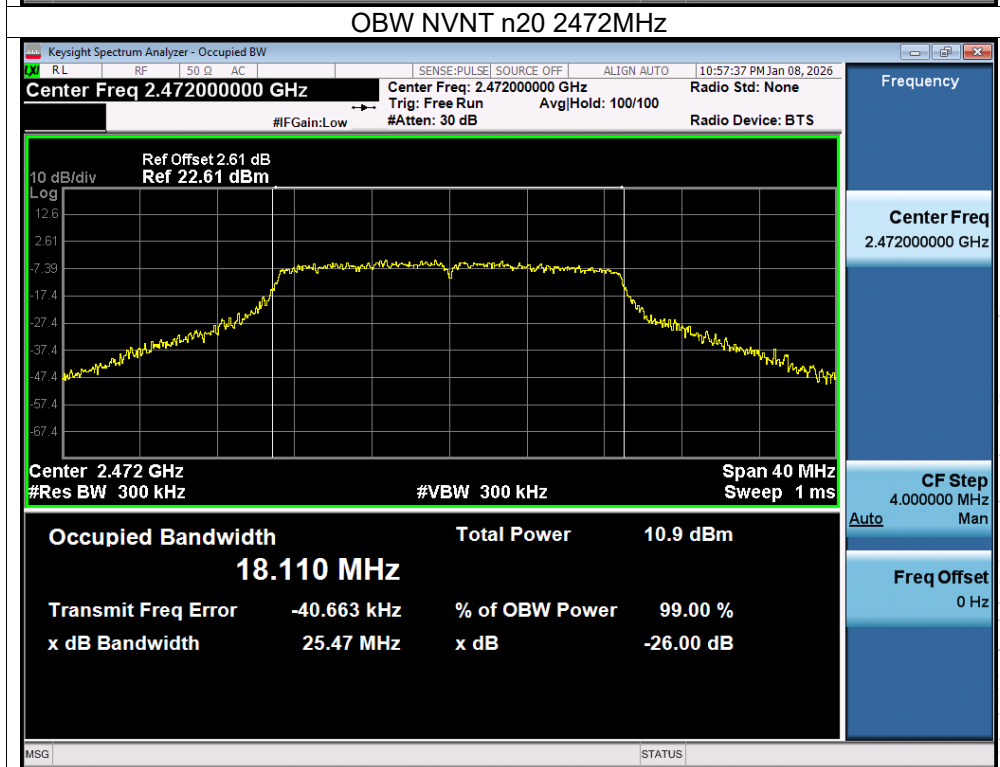
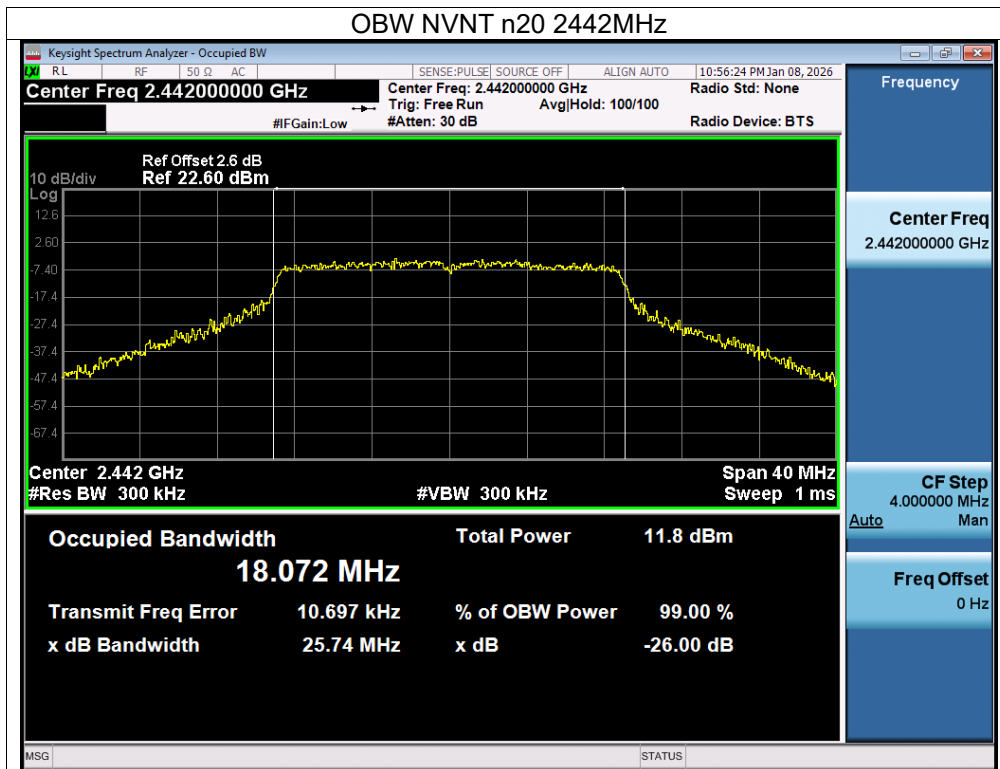


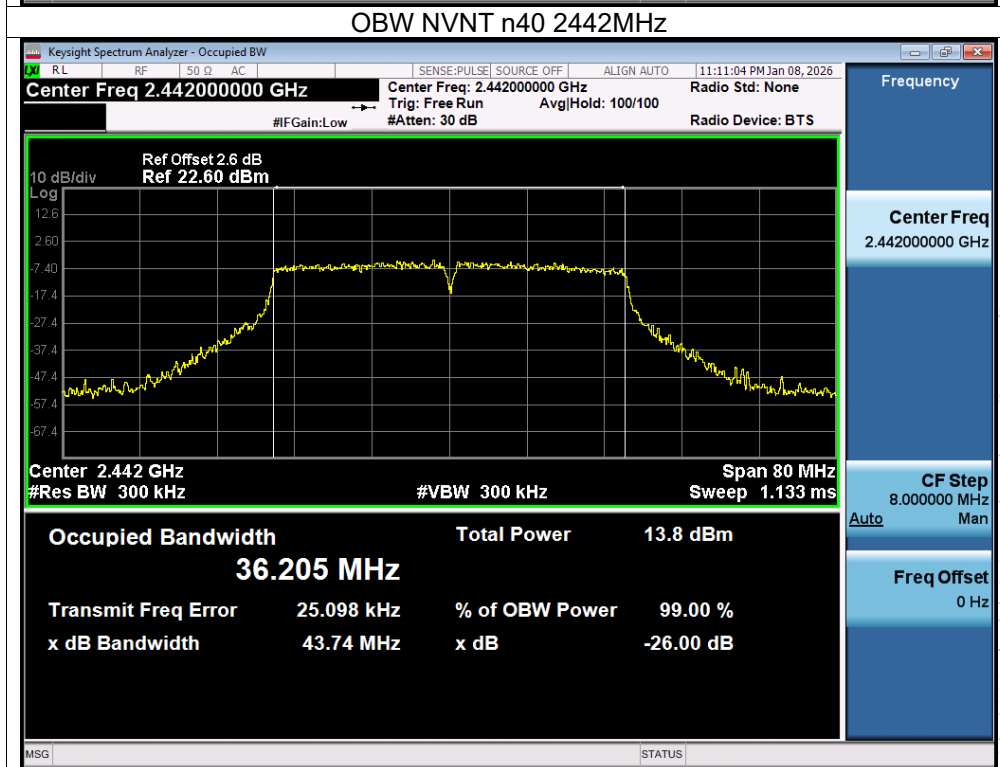
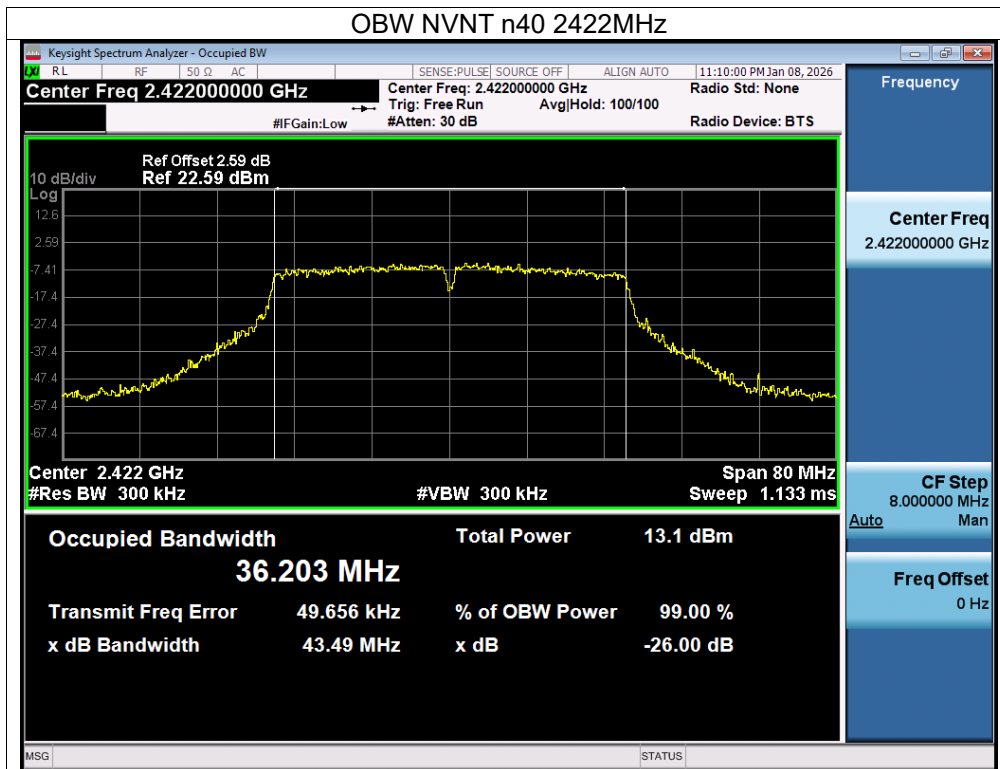


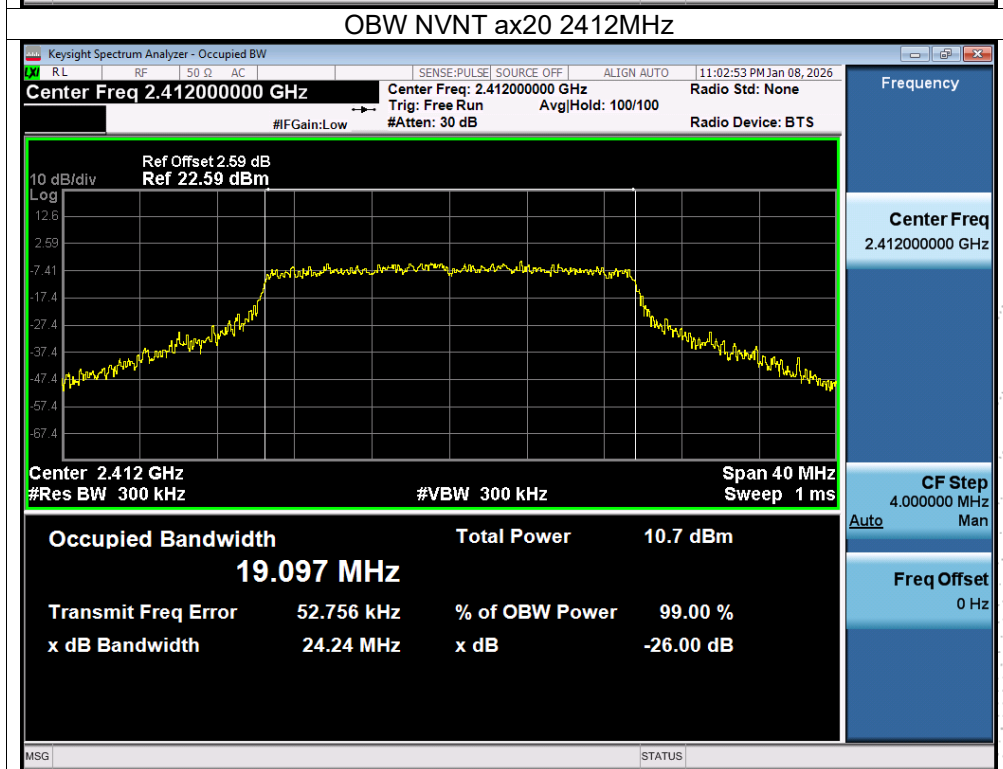
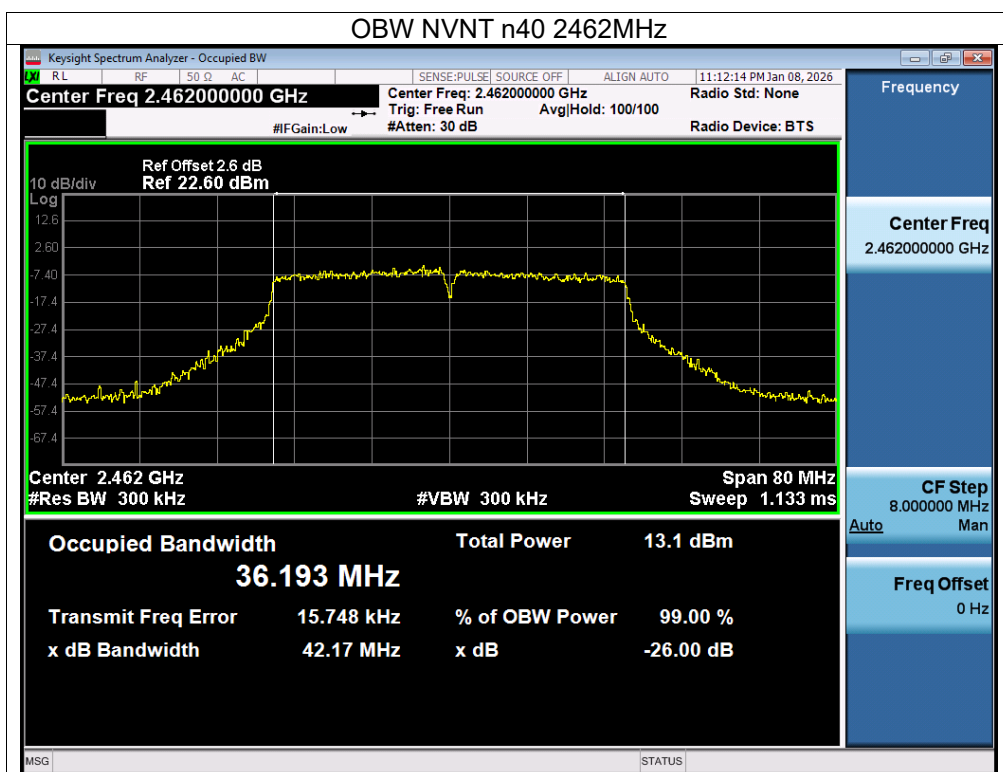
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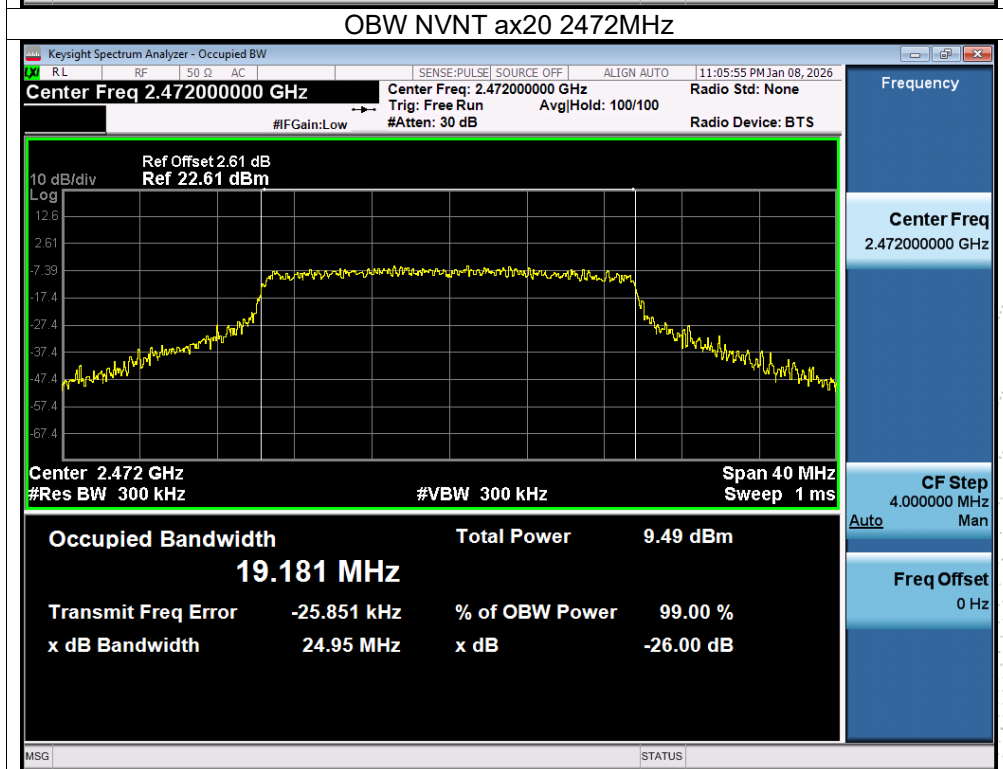
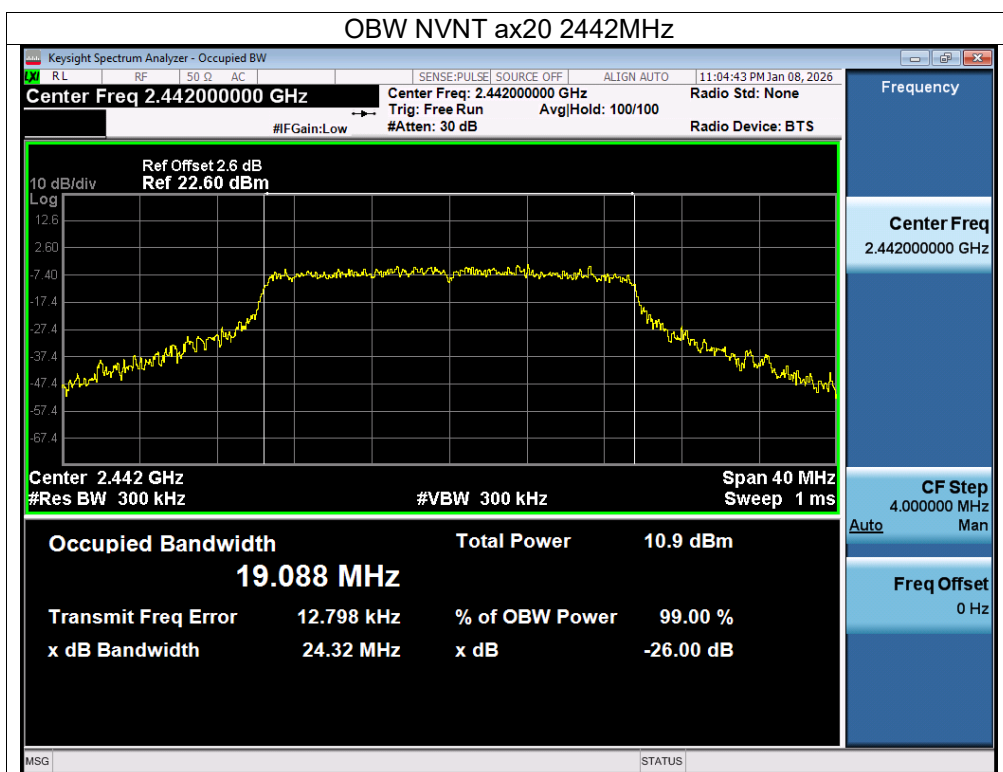




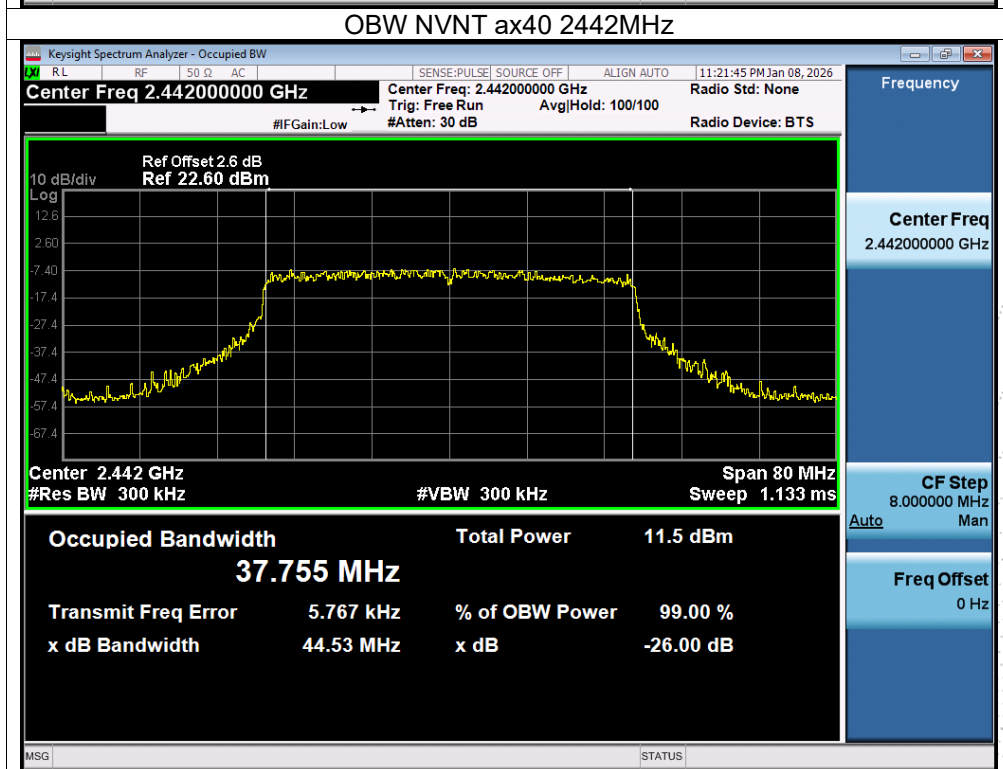
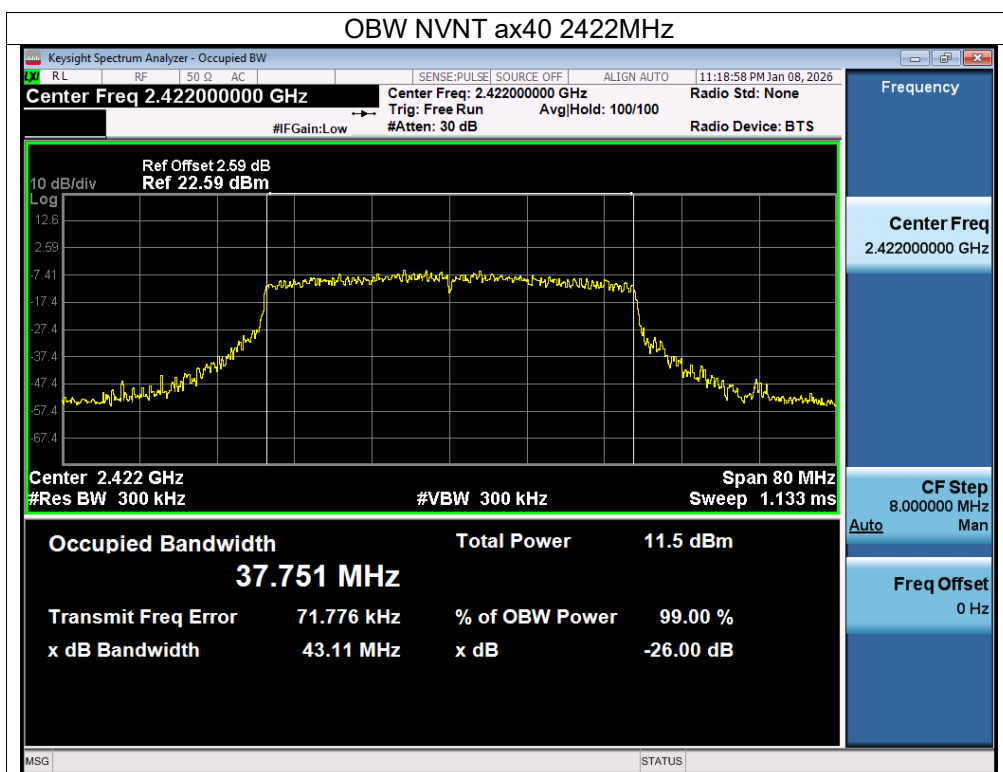


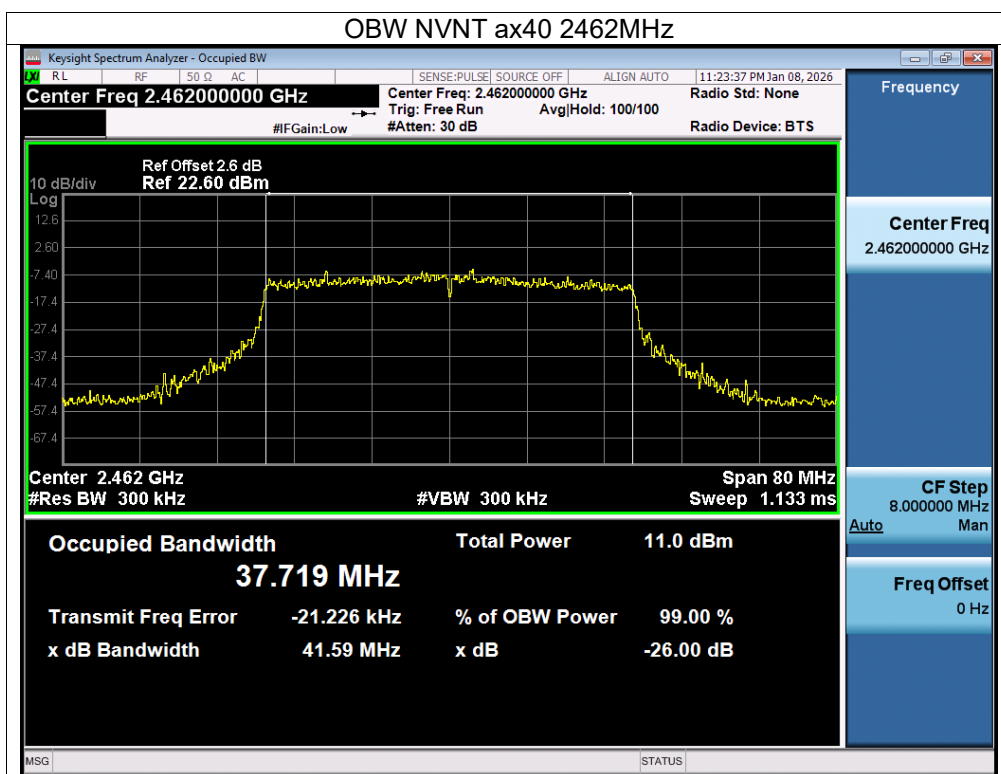


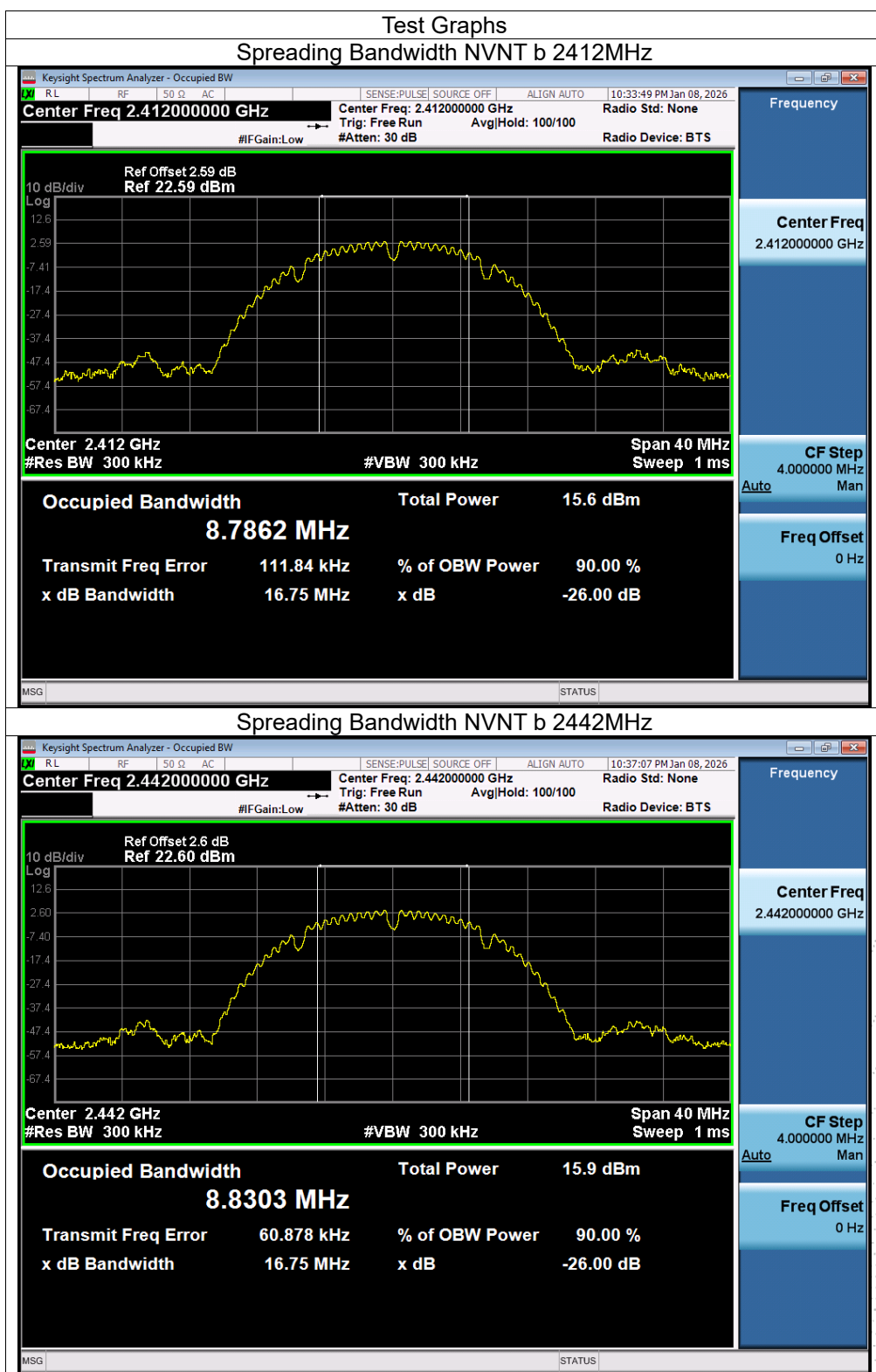


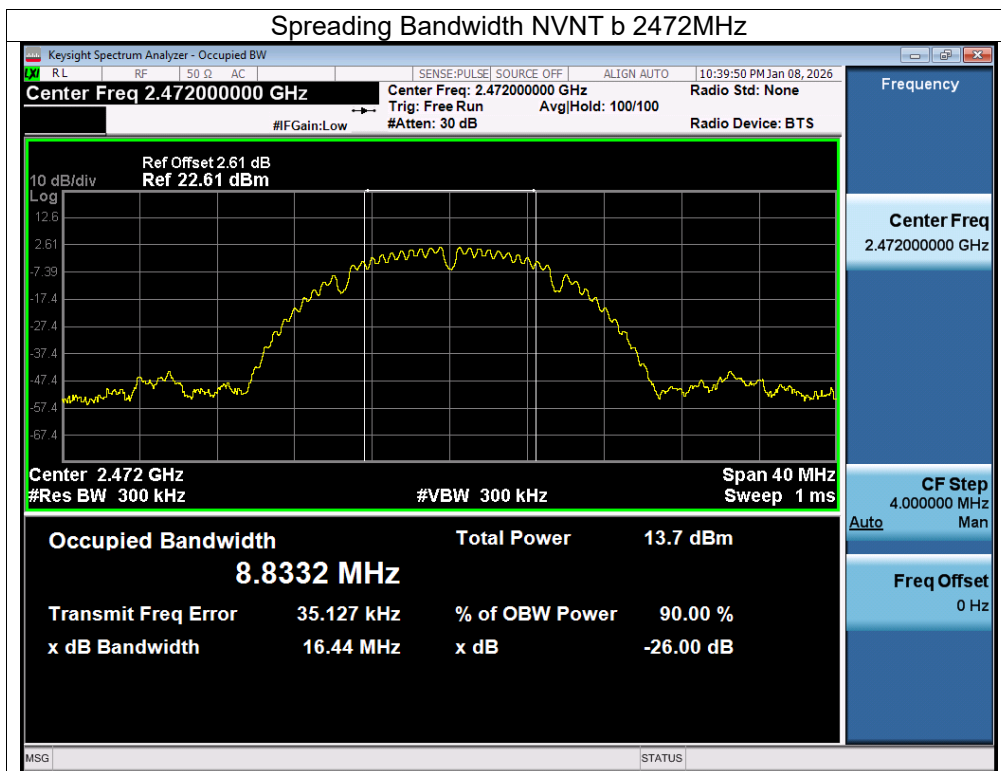


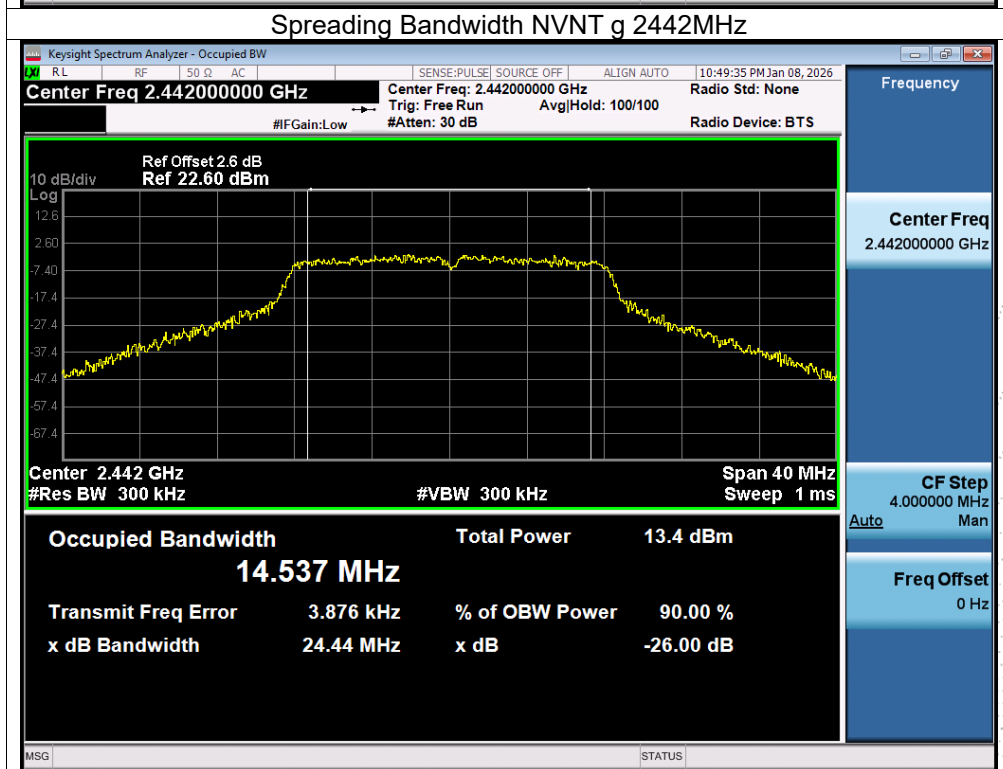
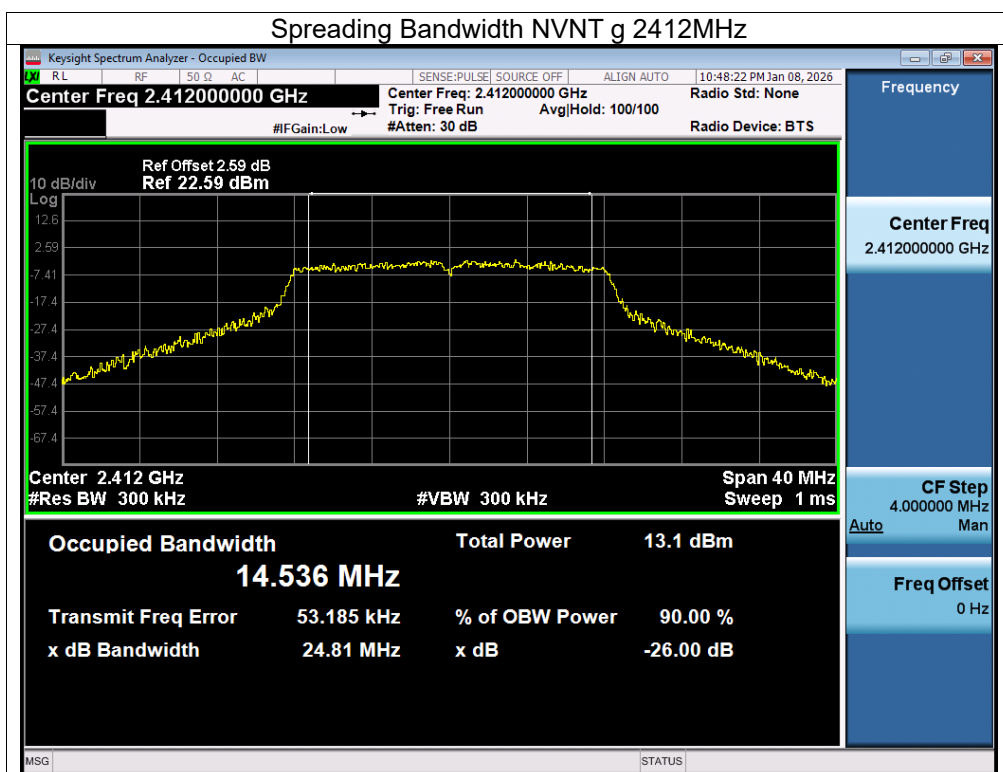
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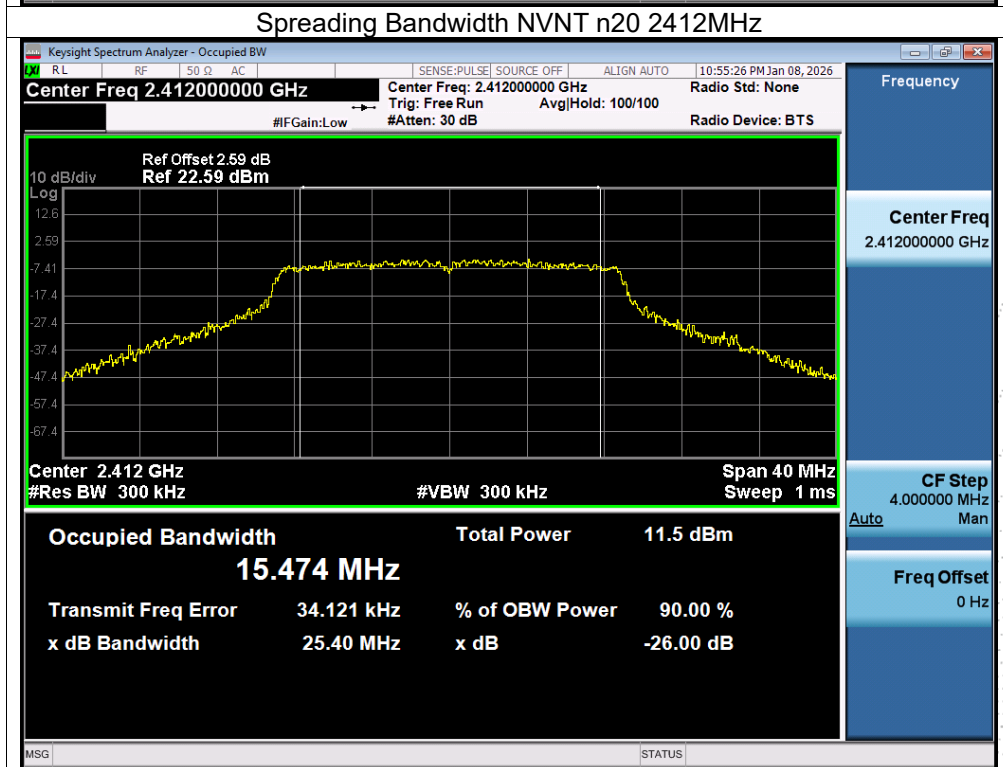
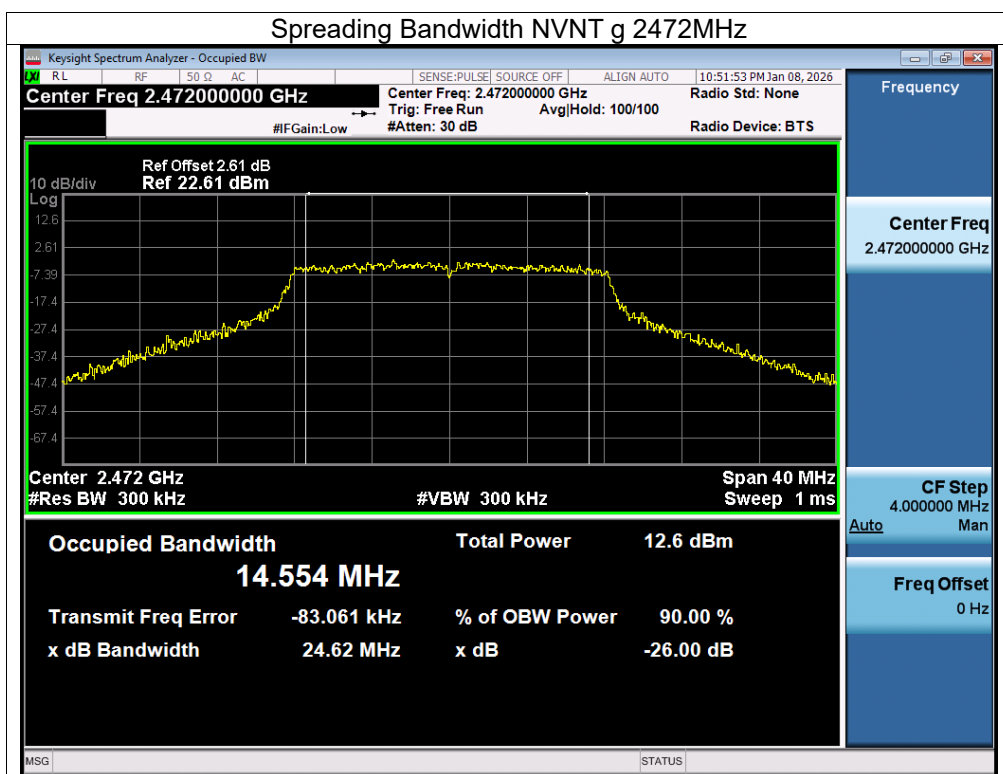


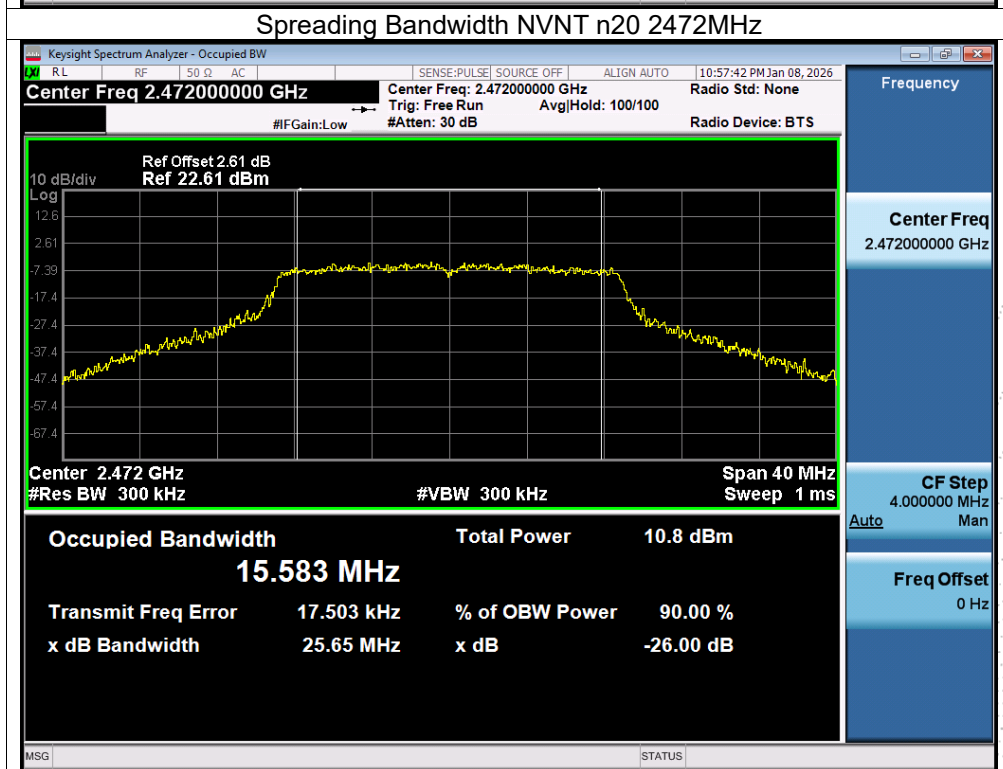
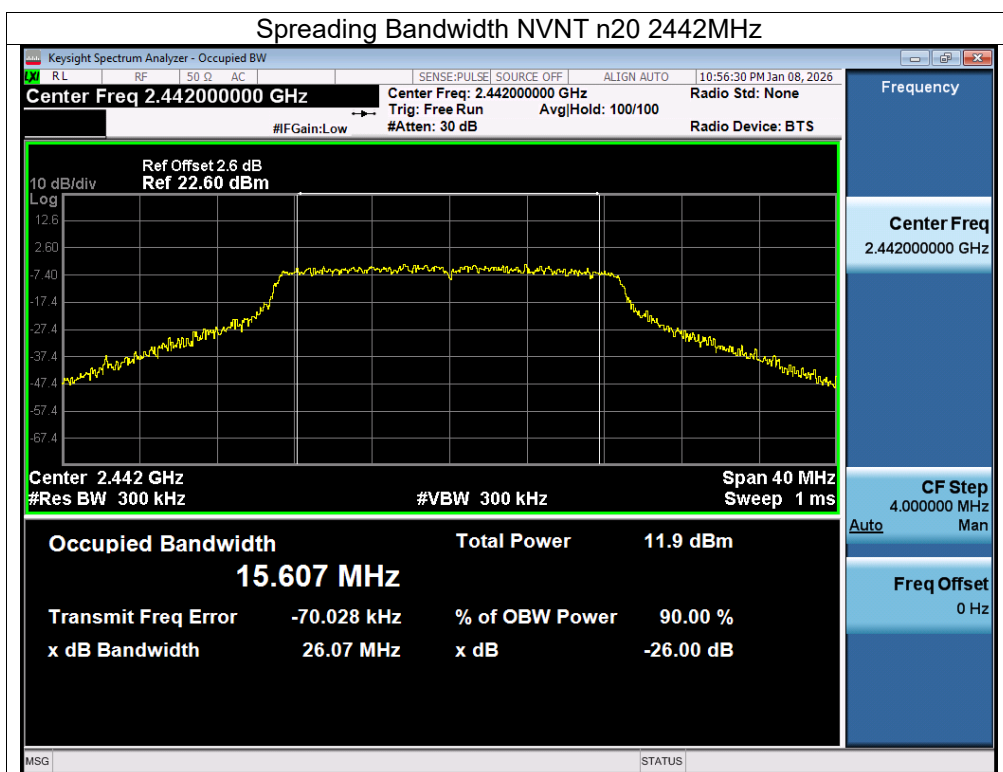


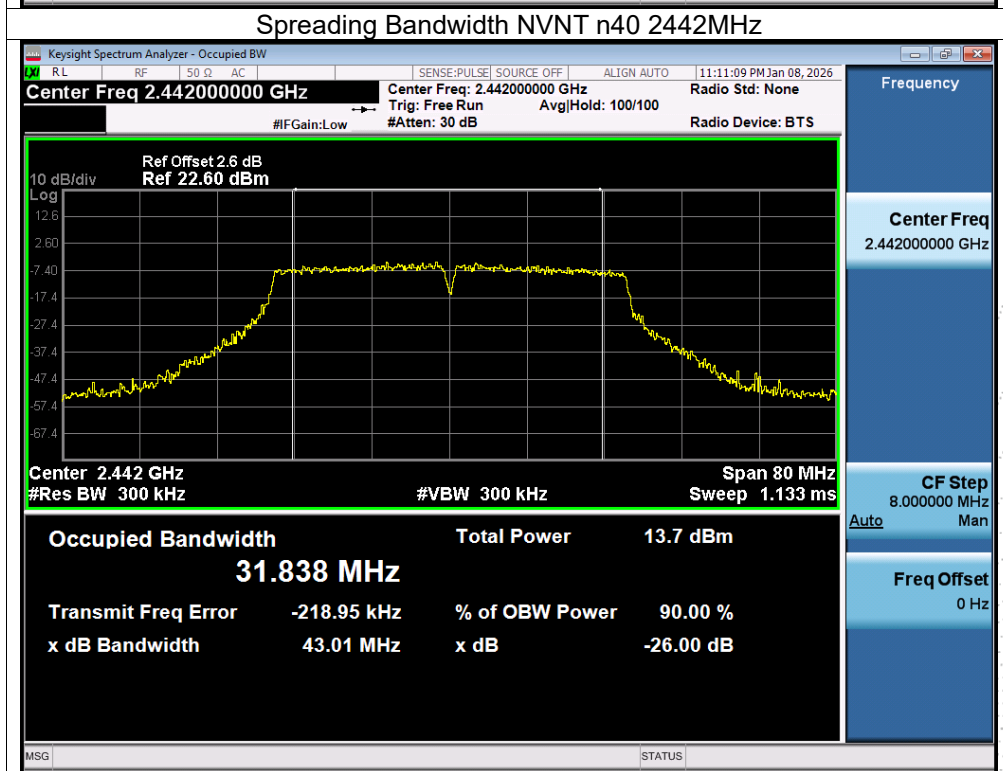
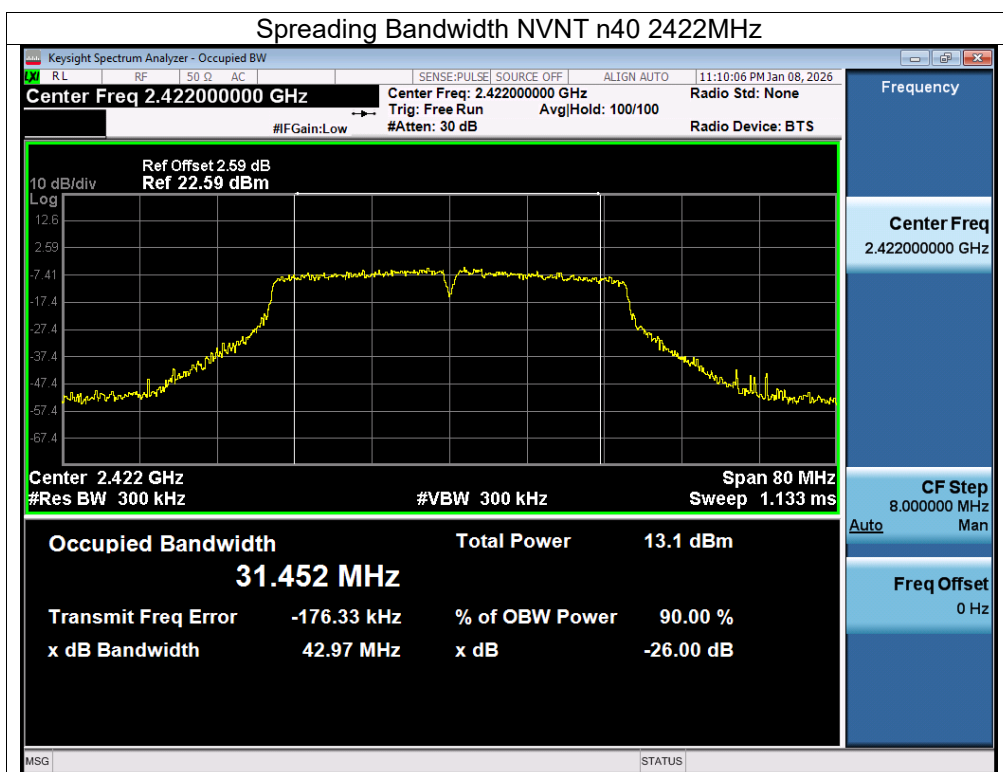


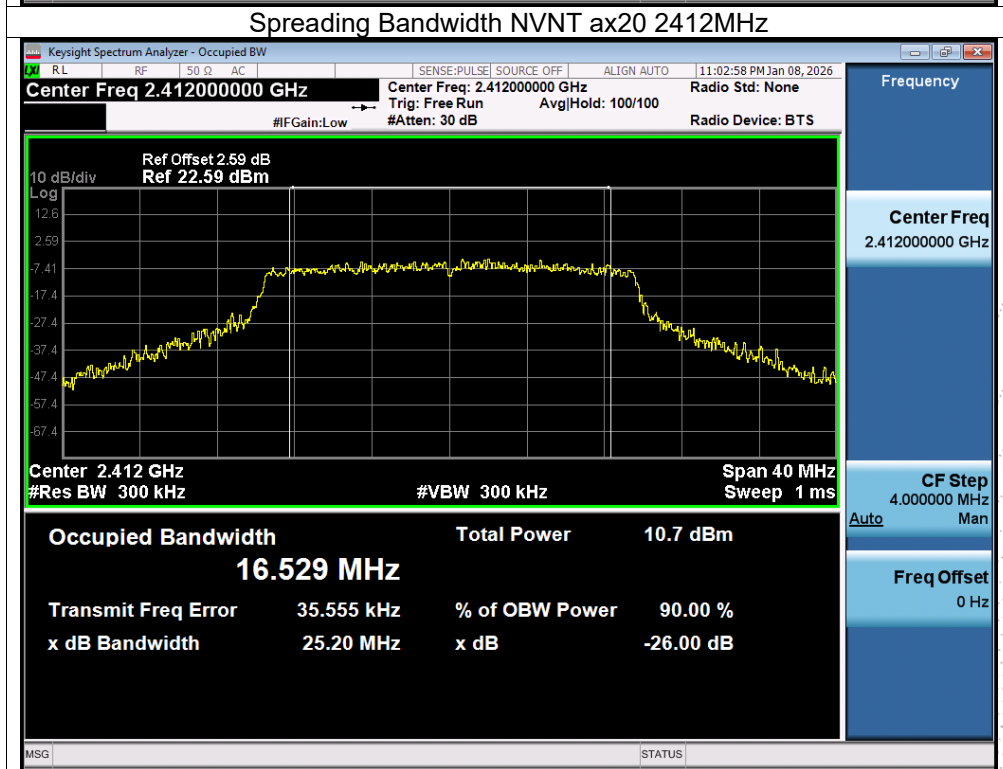
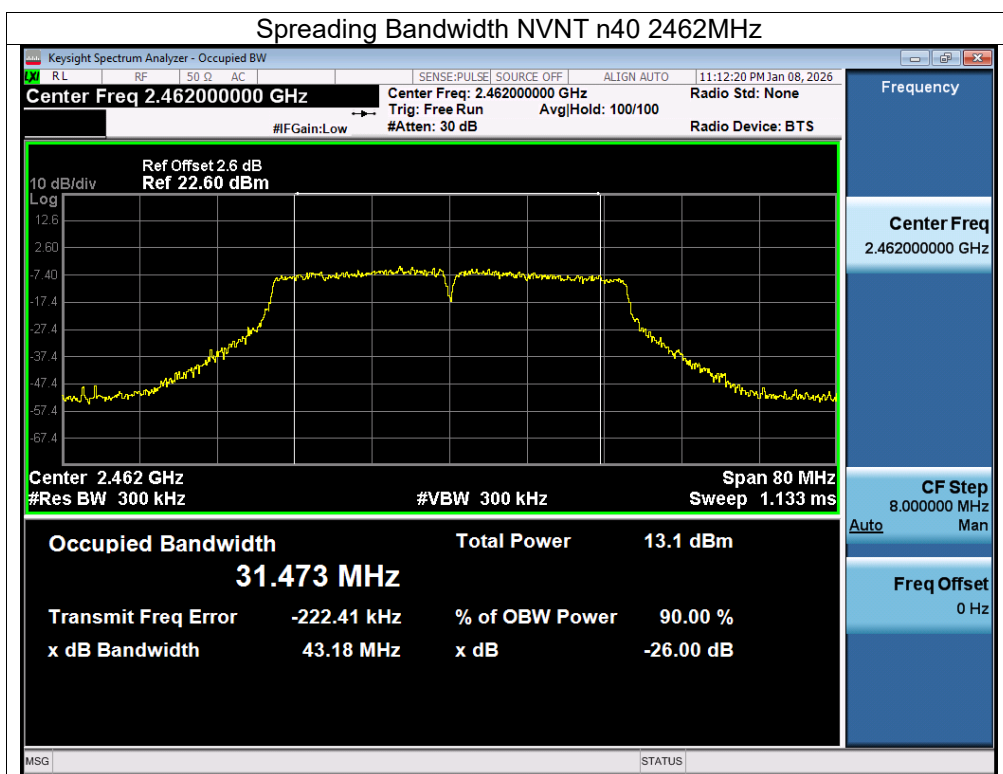


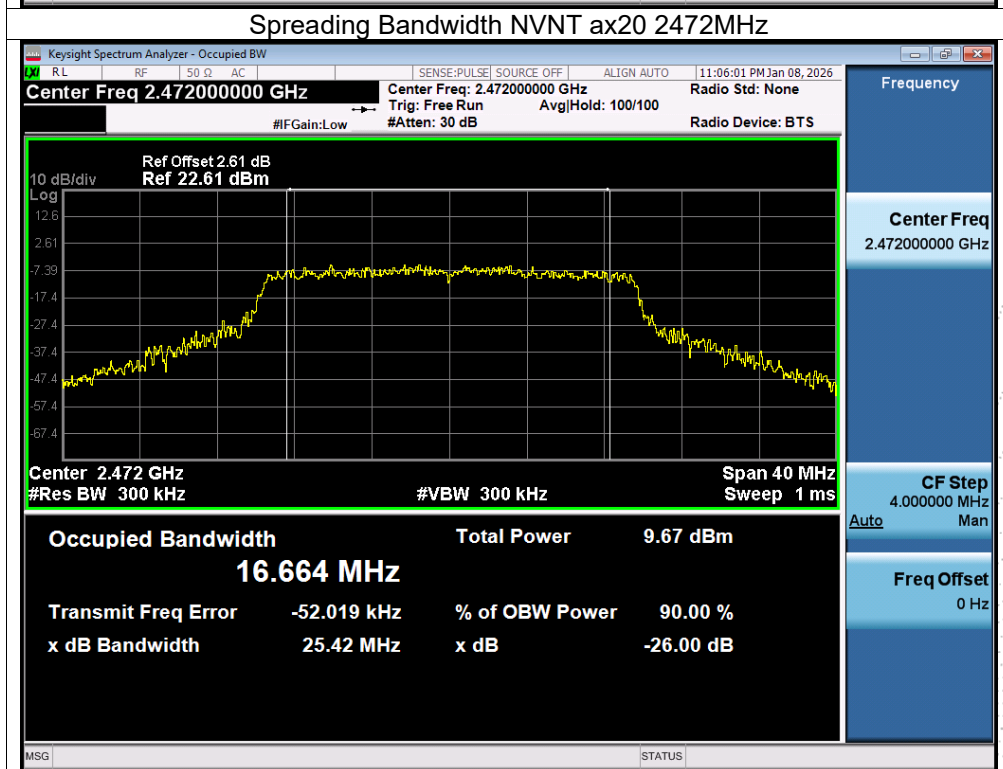
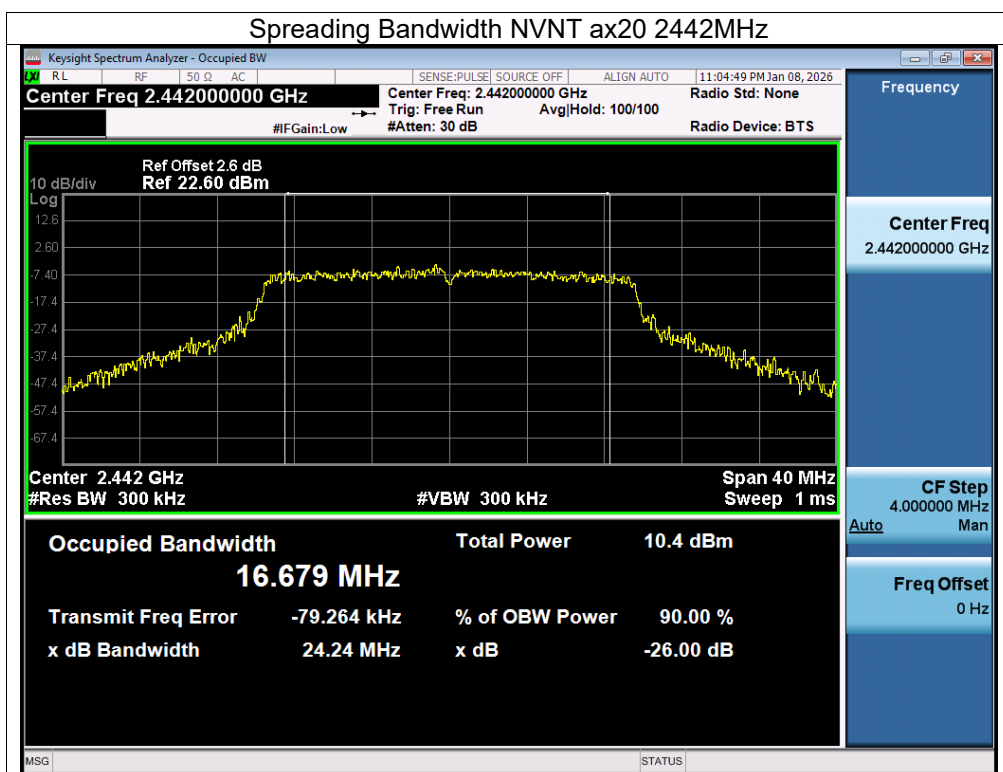


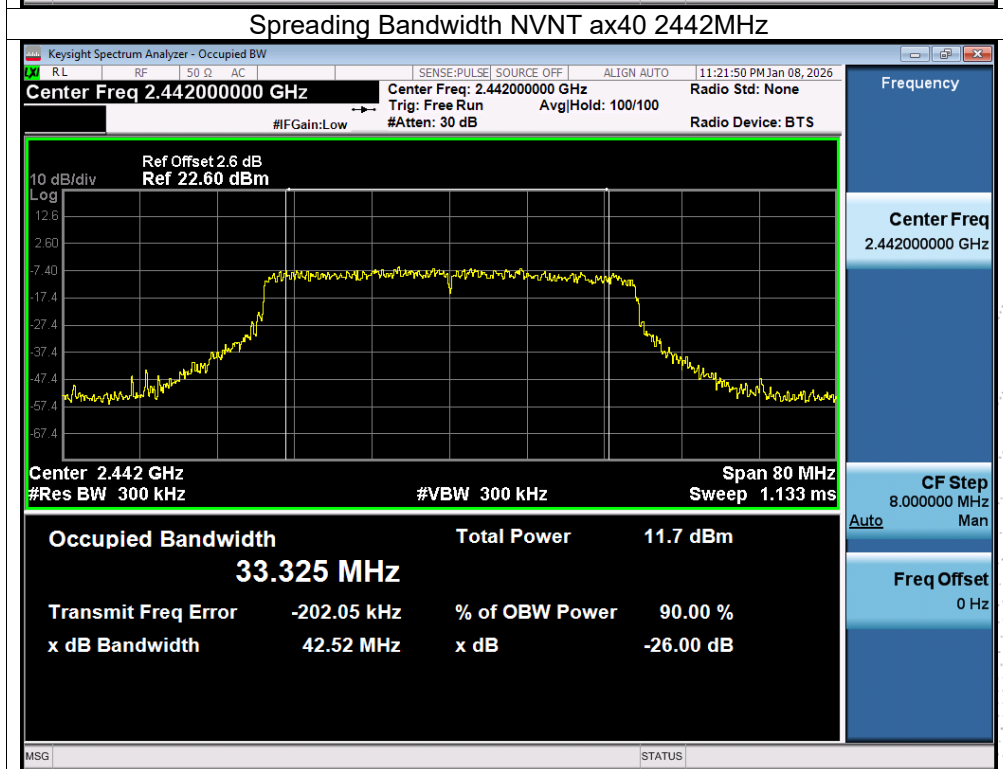
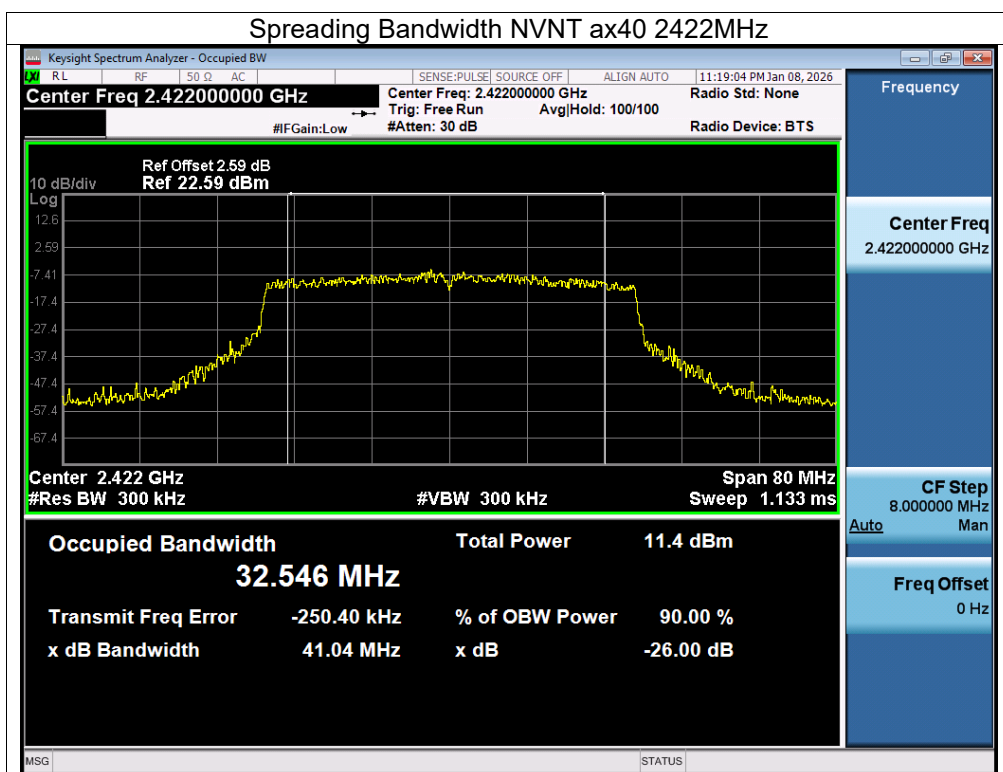


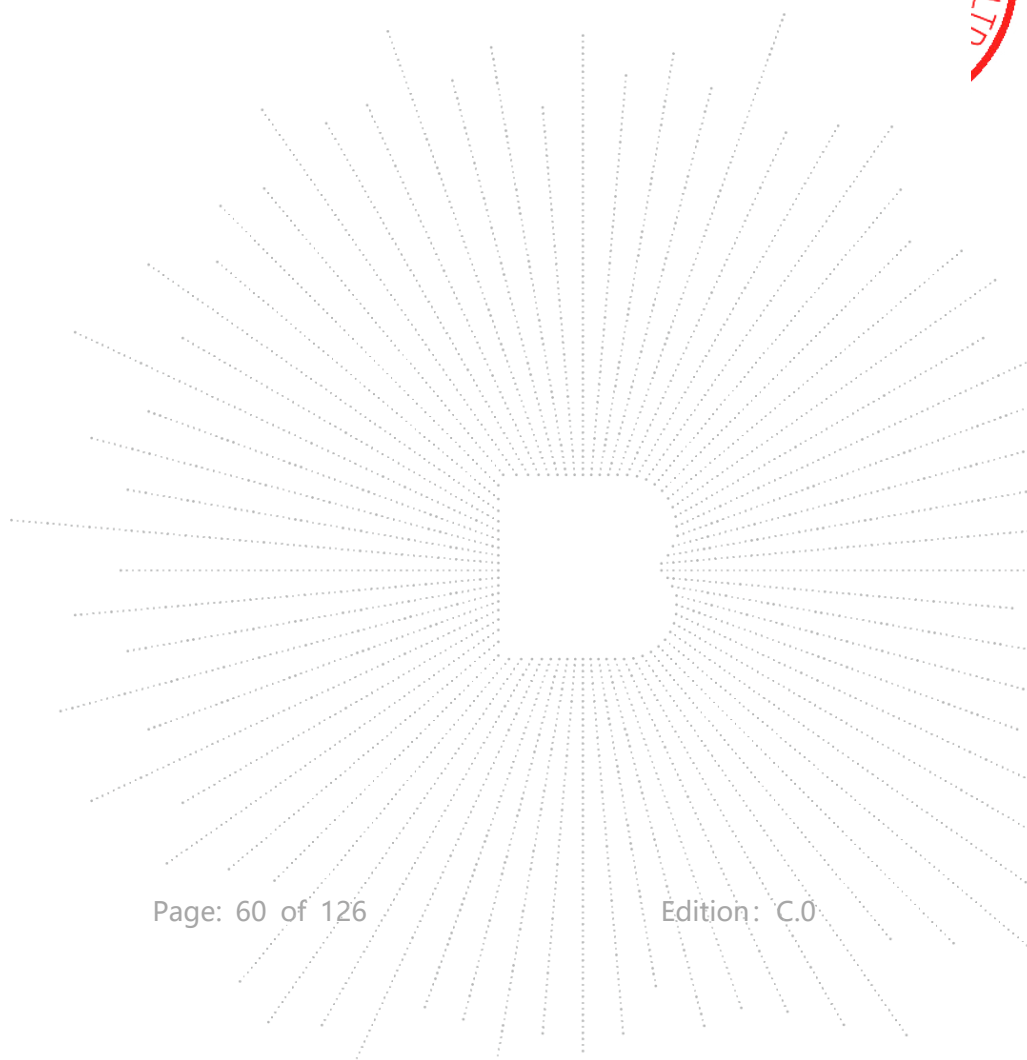
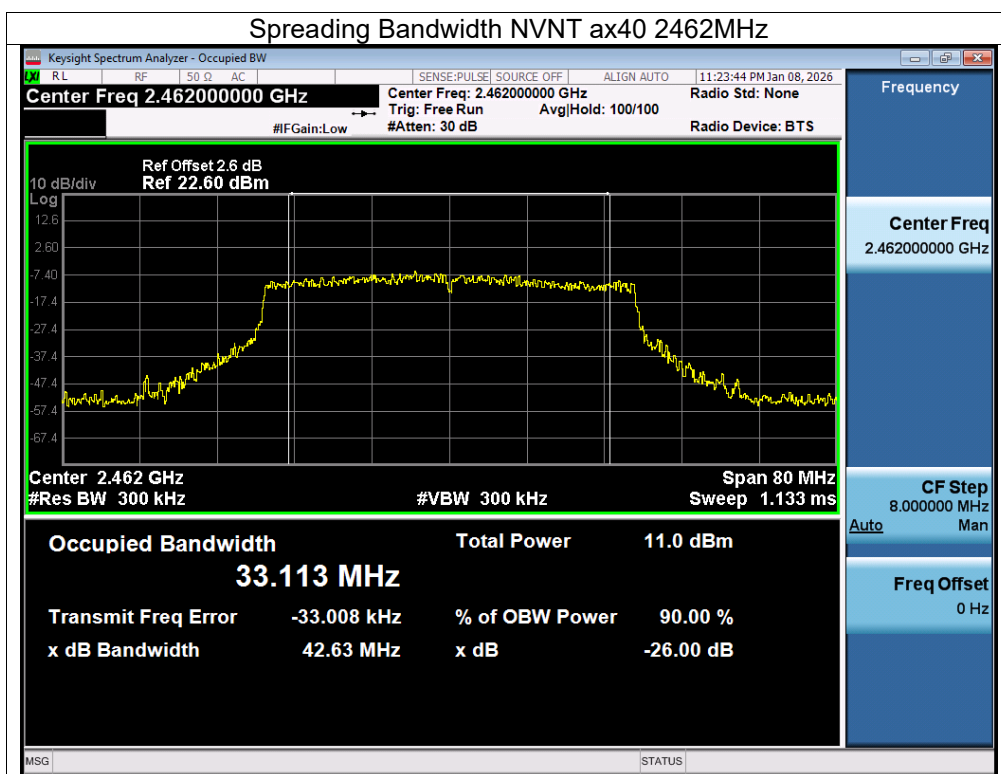






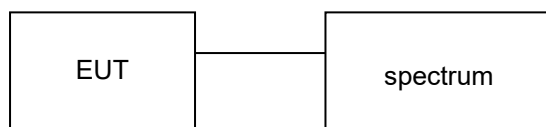






10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

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

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz / AT: 20dB Ref: 10dBm / 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 $0.25\mu\text{W/MHz}$.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W/MHz}$.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than $25\mu\text{W/MHz}$.
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 $25\mu\text{W/MHz}$
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W/MHz}$

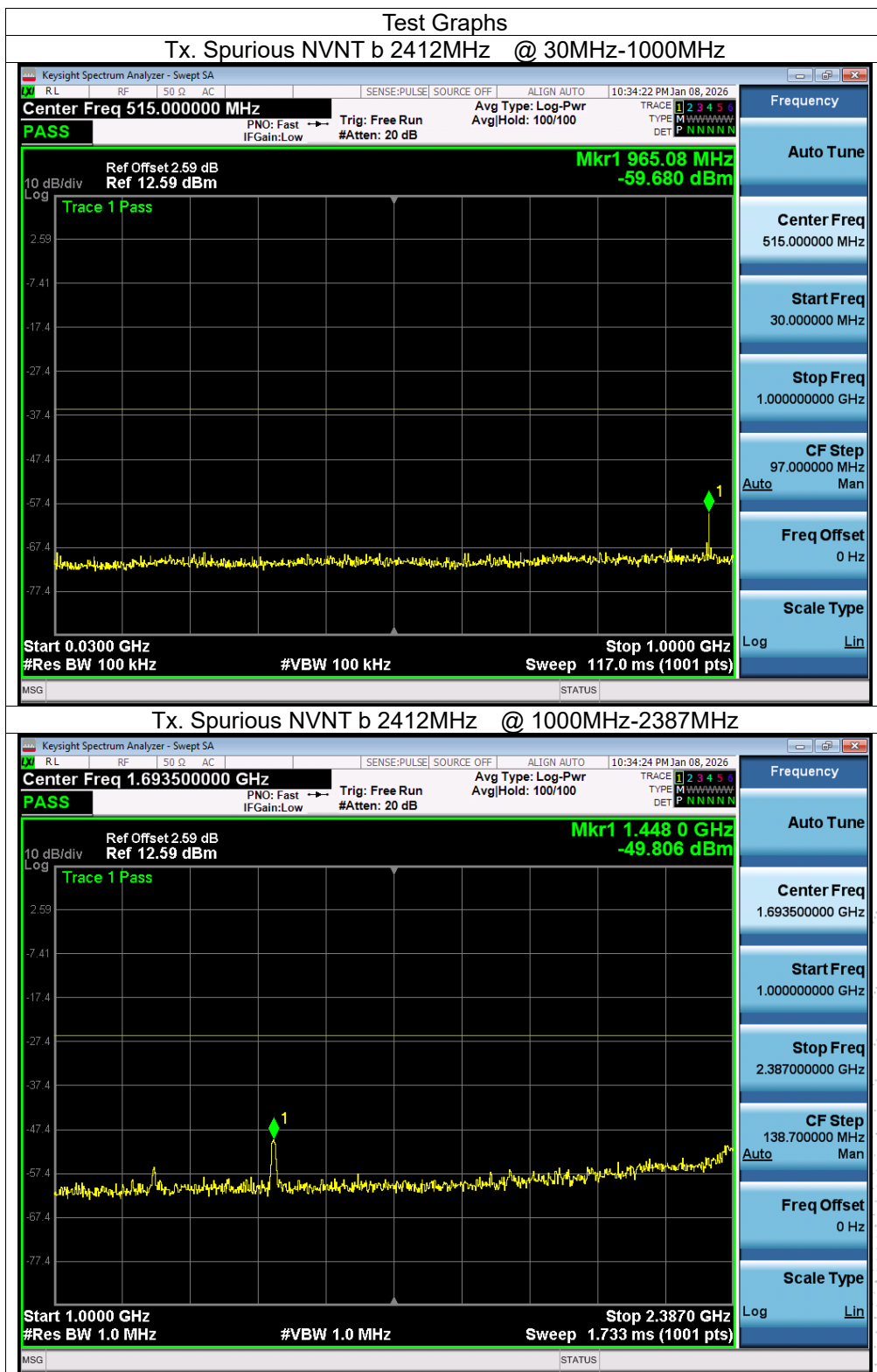
10.5 Test Result

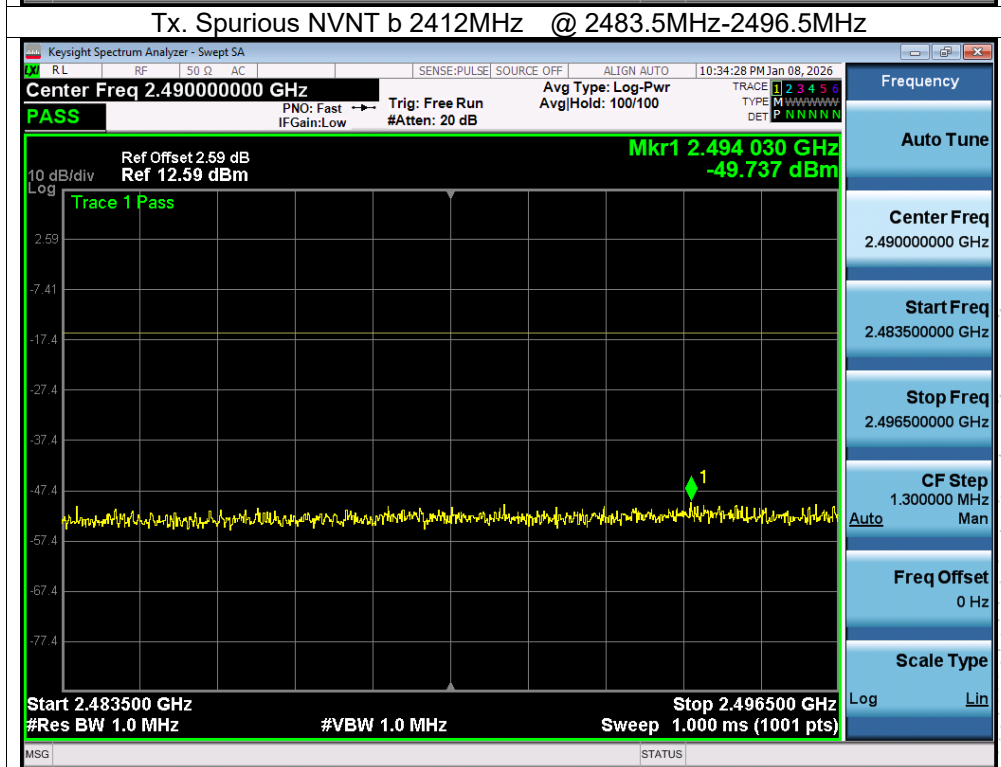
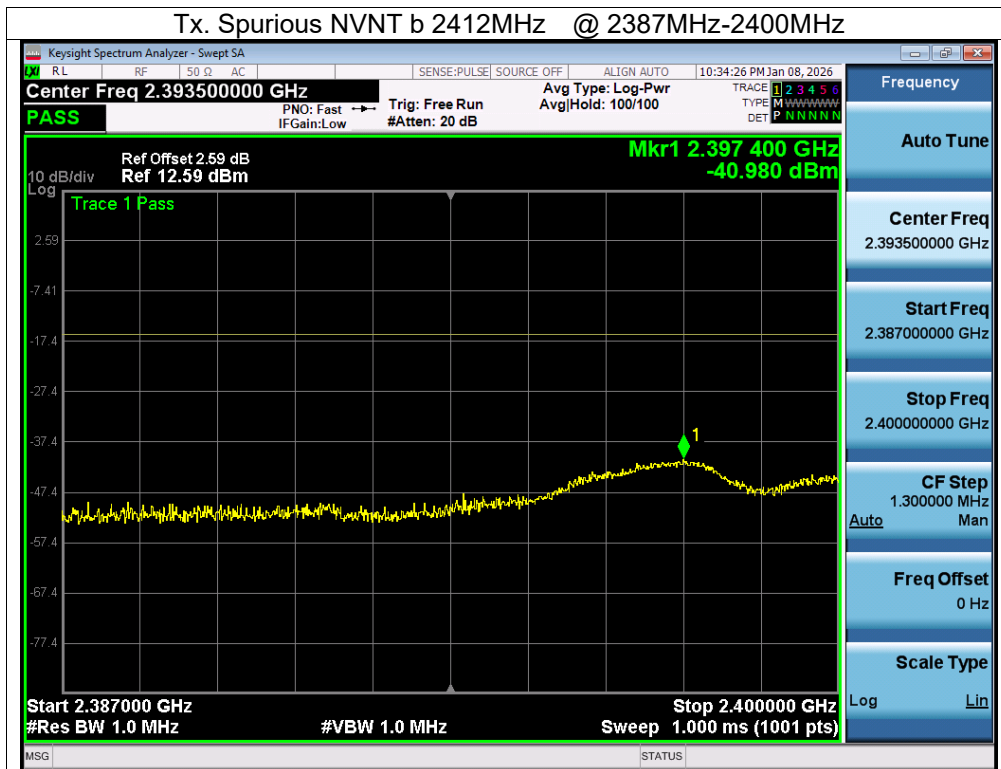
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Test Mode:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ax (HE20) 802.11ax (HE40)		

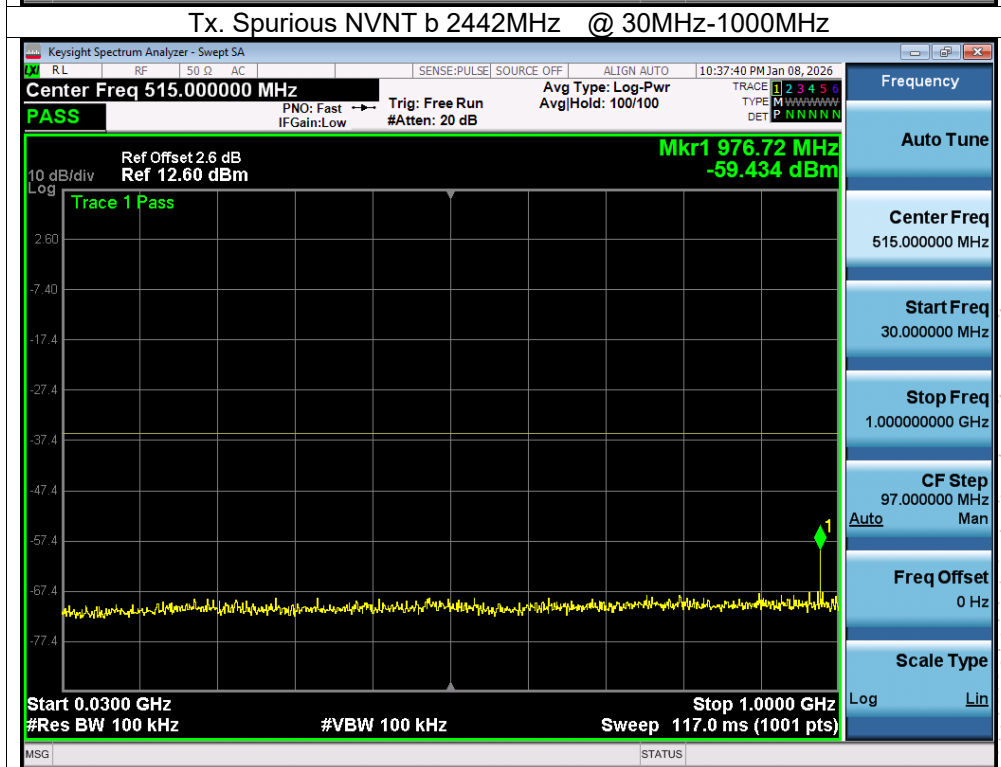
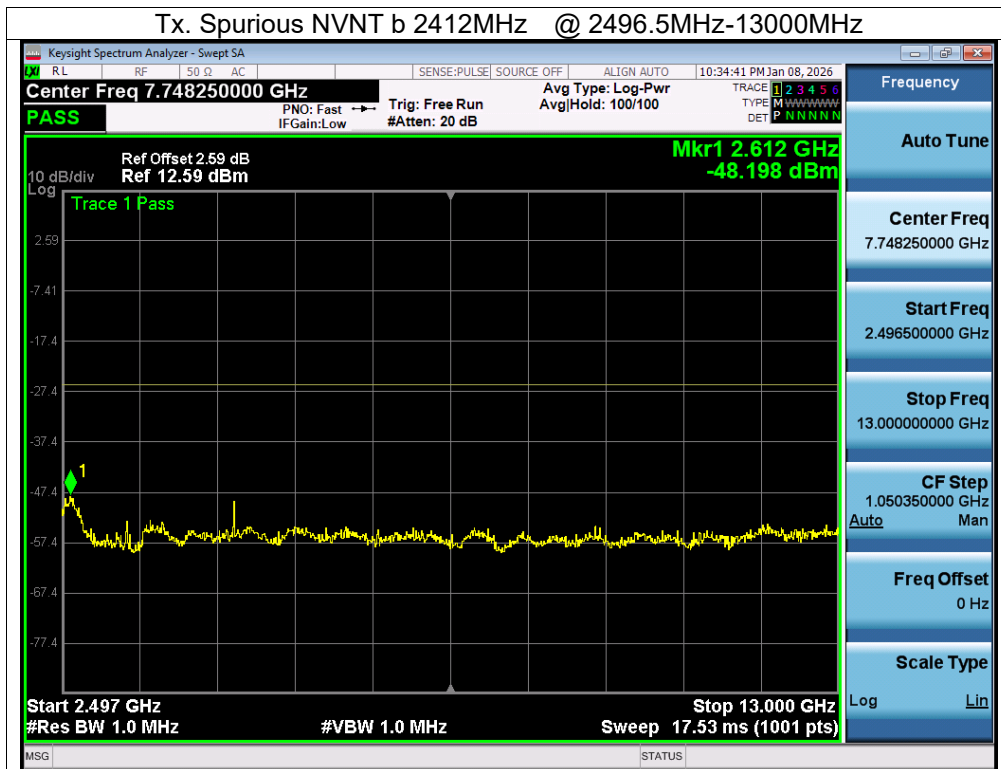
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (uW/MHz)	Limit (uW/MHz)	Verdict
NVNT	b	2412	30-1000	965.08	-49.68	0.011	0.25	Pass
NVNT	b	2412	1000-2387	1448	-49.81	0.010	2.5	Pass
NVNT	b	2412	2387-2400	2397.4	-40.98	0.080	25	Pass
NVNT	b	2412	2483.5-2496.5	2494.03	-49.74	0.011	25	Pass
NVNT	b	2412	2496.5-13000	2612.04	-48.2	0.015	2.5	Pass
NVNT	b	2442	30-1000	976.72	-49.43	0.011	0.25	Pass
NVNT	b	2442	1000-2387	1467.42	-49.75	0.011	2.5	Pass
NVNT	b	2442	2387-2400	2395.28	-50.61	0.009	25	Pass
NVNT	b	2442	2483.5-2496.5	2486.07	-47.64	0.017	25	Pass
NVNT	b	2442	2496.5-13000	4880.79	-47.81	0.017	2.5	Pass
NVNT	b	2472	30-1000	988.36	-50.85	0.008	0.25	Pass
NVNT	b	2472	1000-2387	1484.06	-50.78	0.008	2.5	Pass
NVNT	b	2472	2387-2400	2398.47	-53.76	0.004	25	Pass
NVNT	b	2472	2483.5-2496.5	2486.58	-41.93	0.064	25	Pass
NVNT	b	2472	2496.5-13000	5164.39	-45.49	0.028	2.5	Pass
NVNT	g	2412	30-1000	518.88	-58.25	0.001	0.25	Pass
NVNT	g	2412	1000-2387	2110.99	-42.75	0.053	2.5	Pass
NVNT	g	2412	2387-2400	2399.66	-16.03	24.946	25	Pass
NVNT	g	2412	2483.5-2496.5	2492.21	-43.95	0.040	25	Pass
NVNT	g	2412	2496.5-13000	2664.56	-47.28	0.019	2.5	Pass
NVNT	g	2442	30-1000	689.6	-57.52	0.002	0.25	Pass
NVNT	g	2442	1000-2387	2137.34	-42.39	0.058	2.5	Pass
NVNT	g	2442	2387-2400	2397.58	-44.91	0.032	25	Pass
NVNT	g	2442	2483.5-2496.5	2494.11	-43.4	0.046	25	Pass
NVNT	g	2442	2496.5-13000	5174.89	-50.41	0.009	2.5	Pass
NVNT	g	2472	30-1000	199.75	-57.3	0.002	0.25	Pass
NVNT	g	2472	1000-2387	2342.62	-42.05	0.062	2.5	Pass
NVNT	g	2472	2387-2400	2397.02	-45.06	0.031	25	Pass
NVNT	g	2472	2483.5-2496.5	2483.5	-17.63	17.258	25	Pass
NVNT	g	2472	2496.5-13000	2496.5	-37.69	0.170	2.5	Pass
NVNT	n20	2412	30-1000	162.89	-57.83	0.002	0.25	Pass
NVNT	n20	2412	1000-2387	2159.53	-42.18	0.061	2.5	Pass
NVNT	n20	2412	2387-2400	2399.48	-17.75	16.788	25	Pass
NVNT	n20	2412	2483.5-2496.5	2493.52	-45.77	0.026	25	Pass
NVNT	n20	2412	2496.5-13000	3861.96	-41.04	0.079	2.5	Pass
NVNT	n20	2442	30-1000	773.02	-57.26	0.002	0.25	Pass
NVNT	n20	2442	1000-2387	2116.54	-44.41	0.036	2.5	Pass
NVNT	n20	2442	2387-2400	2389.99	-38.14	0.153	25	Pass
NVNT	n20	2442	2483.5-2496.5	2495.76	-43.98	0.040	25	Pass
NVNT	n20	2442	2496.5-13000	5174.89	-51.24	0.008	2.5	Pass
NVNT	n20	2472	30-1000	899.12	-58.04	0.002	0.25	Pass
NVNT	n20	2472	1000-2387	2299.62	-39.63	0.109	2.5	Pass
NVNT	n20	2472	2387-2400	2393.1	-42.45	0.057	25	Pass
NVNT	n20	2472	2483.5-2496.5	2483.79	-17.71	16.943	25	Pass

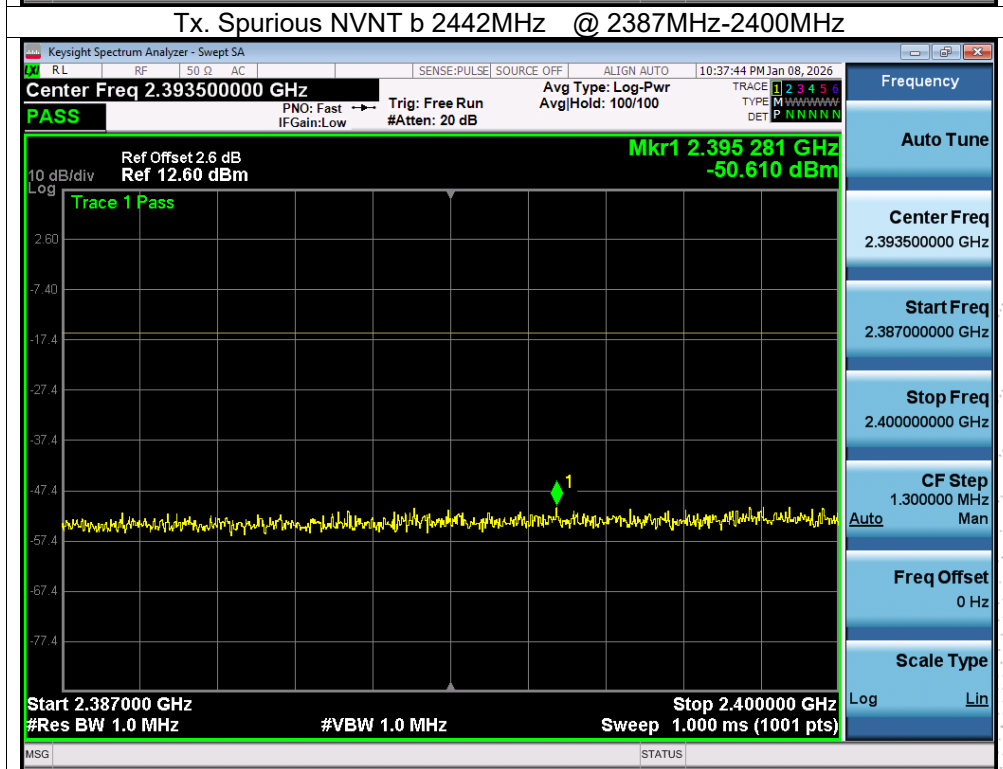
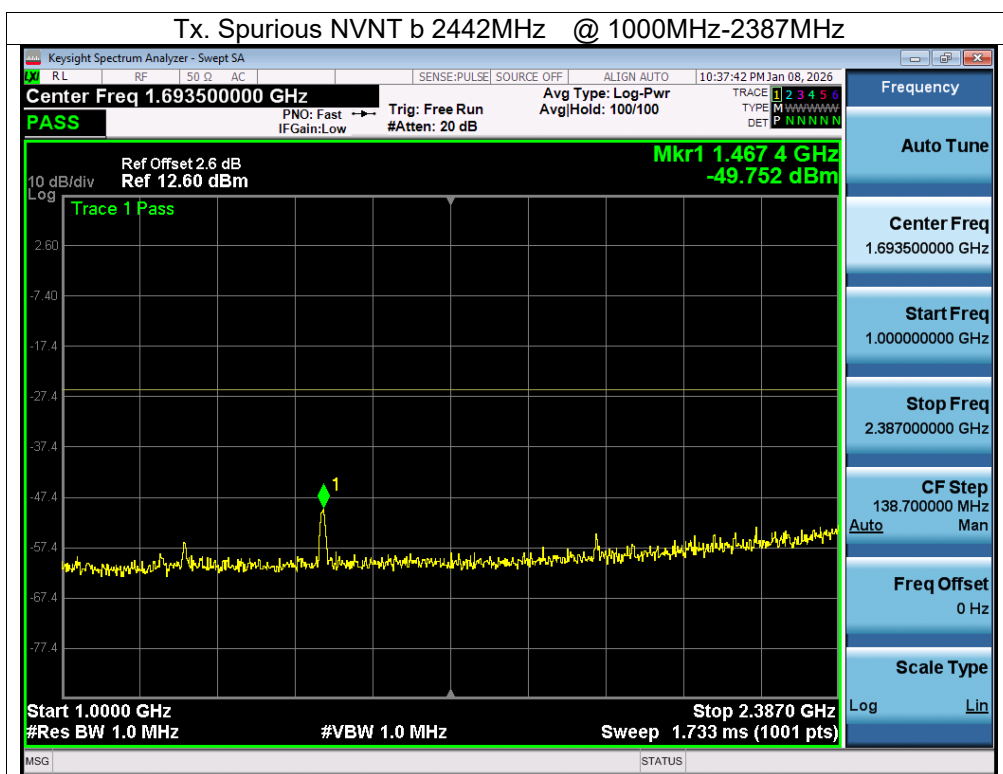
NVNT	n20	2472	2496.5-13000	2496.5	-35.13	0.307	2.5	Pass
NVNT	n40	2422	30-1000	934.04	-57.8	0.002	0.25	Pass
NVNT	n40	2422	1000-2387	1898.78	-47.35	0.018	2.5	Pass
NVNT	n40	2422	2387-2400	2399.95	-21.16	7.656	25	Pass
NVNT	n40	2422	2483.5-2496.5	2488.73	-40.61	0.087	25	Pass
NVNT	n40	2422	2496.5-13000	3872.46	-41.38	0.073	2.5	Pass
NVNT	n40	2442	30-1000	747.8	-57.85	0.002	0.25	Pass
NVNT	n40	2442	1000-2387	2181.72	-41.67	0.068	2.5	Pass
NVNT	n40	2442	2387-2400	2399.23	-44.23	0.038	25	Pass
NVNT	n40	2442	2483.5-2496.5	2487.36	-43.68	0.043	25	Pass
NVNT	n40	2442	2496.5-13000	5174.89	-51.91	0.006	2.5	Pass
NVNT	n40	2462	30-1000	938.89	-57.58	0.002	0.25	Pass
NVNT	n40	2462	1000-2387	2049.96	-41.54	0.070	2.5	Pass
NVNT	n40	2462	2387-2400	2391.07	-41.61	0.069	25	Pass
NVNT	n40	2462	2483.5-2496.5	2483.55	-21.62	6.887	25	Pass
NVNT	n40	2462	2496.5-13000	2496.5	-38.79	0.132	2.5	Pass
NVNT	ax20	2412	30-1000	468.44	-57.6	0.002	0.25	Pass
NVNT	ax20	2412	1000-2387	2387	-51.92	0.006	2.5	Pass
NVNT	ax20	2412	2387-2400	2398.93	-18.16	15.276	25	Pass
NVNT	ax20	2412	2483.5-2496.5	2485.85	-45.89	0.026	25	Pass
NVNT	ax20	2412	2496.5-13000	5826.11	-48.86	0.013	2.5	Pass
NVNT	ax20	2442	30-1000	881.66	-57.73	0.002	0.25	Pass
NVNT	ax20	2442	1000-2387	2210.85	-51.98	0.006	2.5	Pass
NVNT	ax20	2442	2387-2400	2394.96	-45.59	0.028	25	Pass
NVNT	ax20	2442	2483.5-2496.5	2493.95	-48.93	0.013	25	Pass
NVNT	ax20	2442	2496.5-13000	5090.86	-51.67	0.007	2.5	Pass
NVNT	ax20	2472	30-1000	964.11	-58.03	0.002	0.25	Pass
NVNT	ax20	2472	1000-2387	2034.7	-48.4	0.014	2.5	Pass
NVNT	ax20	2472	2387-2400	2390.39	-55.02	0.003	25	Pass
NVNT	ax20	2472	2483.5-2496.5	2483.73	-18.22	15.066	25	Pass
NVNT	ax20	2472	2496.5-13000	2496.5	-37.51	0.177	2.5	Pass
NVNT	ax40	2422	30-1000	835.1	-58.6	0.001	0.25	Pass
NVNT	ax40	2422	1000-2387	2387	-39.45	0.114	2.5	Pass
NVNT	ax40	2422	2387-2400	2399.62	-23.54	4.426	25	Pass
NVNT	ax40	2422	2483.5-2496.5	2488.93	-53.2	0.005	25	Pass
NVNT	ax40	2422	2496.5-13000	5815.61	-52.99	0.005	2.5	Pass
NVNT	ax40	2442	30-1000	984.48	-57.12	0.002	0.25	Pass
NVNT	ax40	2442	1000-2387	2159.53	-49.3	0.012	2.5	Pass
NVNT	ax40	2442	2387-2400	2391.48	-43.43	0.045	25	Pass
NVNT	ax40	2442	2483.5-2496.5	2483.62	-45.6	0.028	25	Pass
NVNT	ax40	2442	2496.5-13000	3903.97	-41.83	0.066	2.5	Pass
NVNT	ax40	2462	30-1000	778.84	-58.03	0.002	0.25	Pass
NVNT	ax40	2462	1000-2387	2199.76	-40.99	0.080	2.5	Pass
NVNT	ax40	2462	2387-2400	2398.8	-40.88	0.082	25	Pass
NVNT	ax40	2462	2483.5-2496.5	2484.32	-22.89	5.140	25	Pass
NVNT	ax40	2462	2496.5-13000	2496.5	-41.17	0.076	2.5	Pass

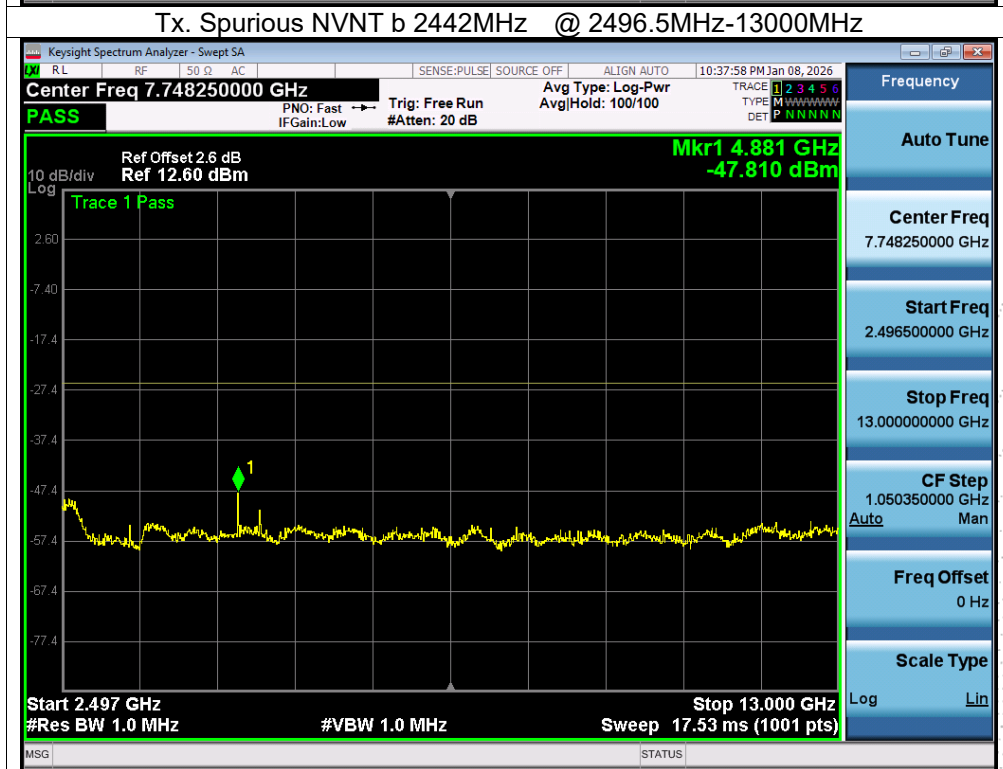
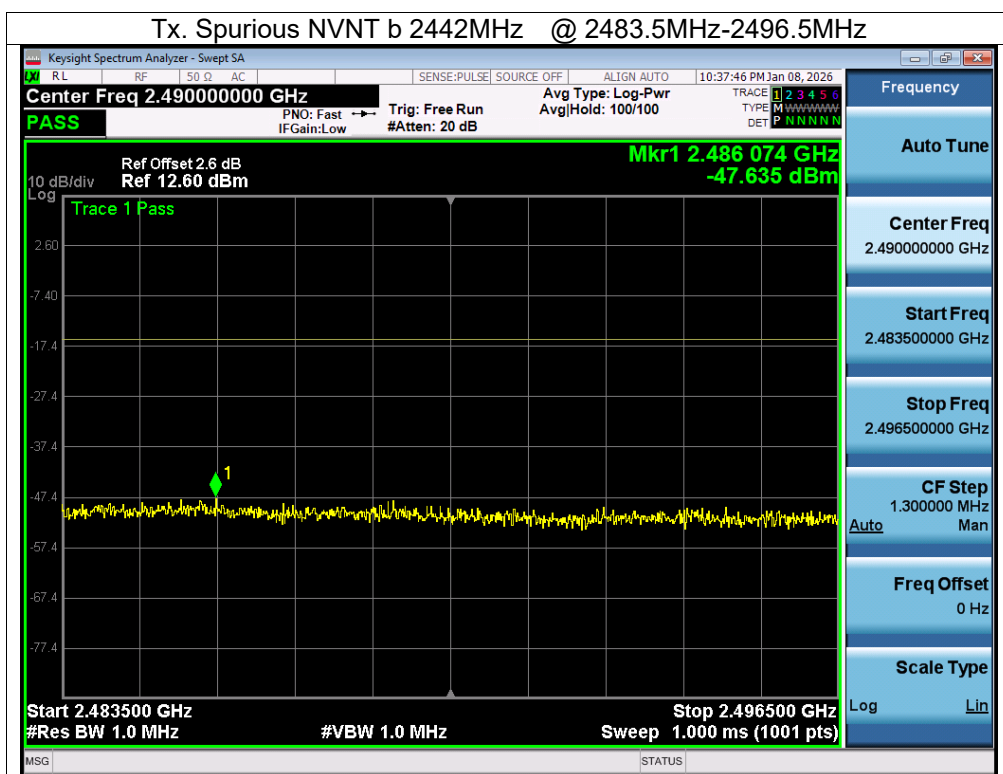
When the RB=100kHz, RB factor = $10\log(RB0/RB1) = 10\log(1M/100K) = 10\text{dB}$

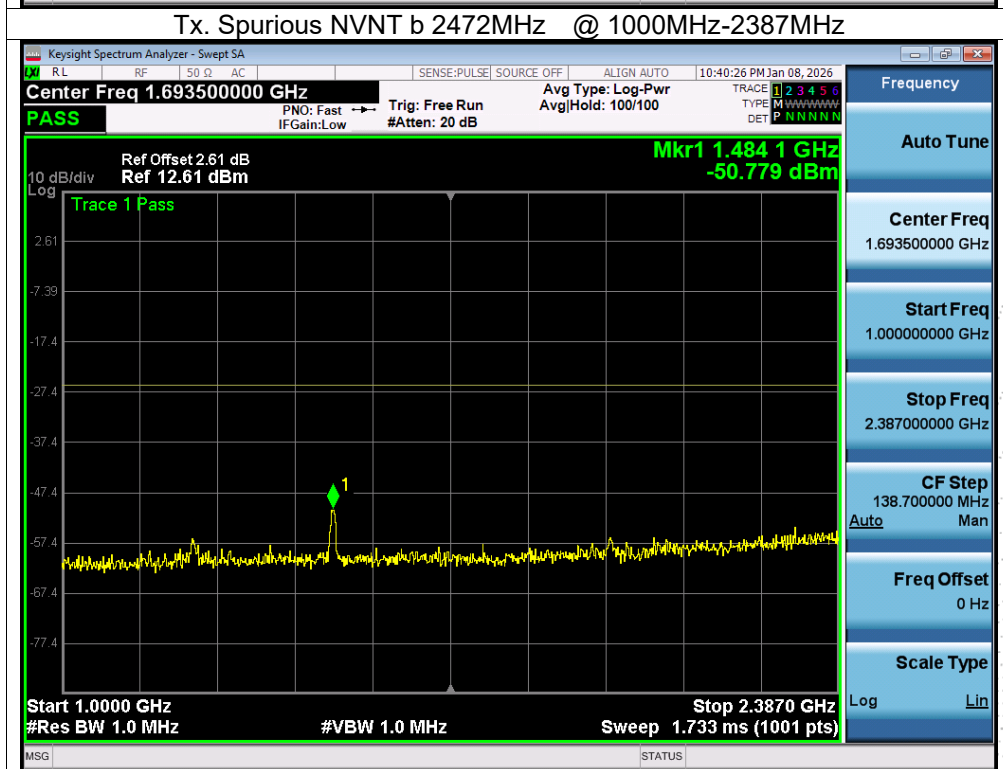
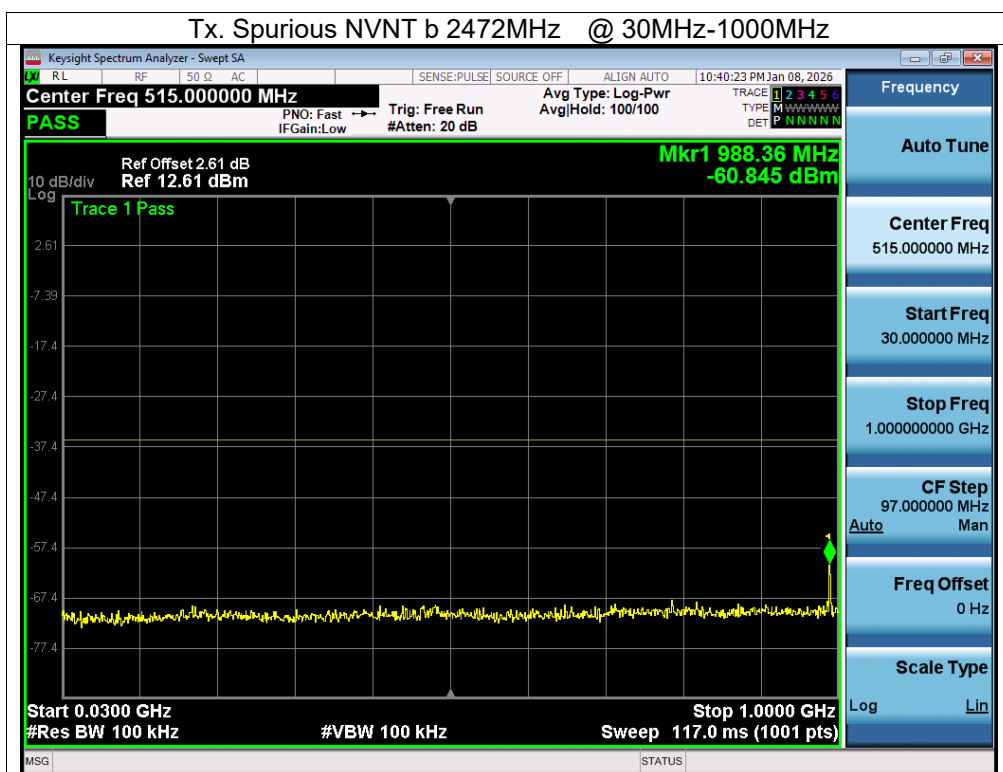


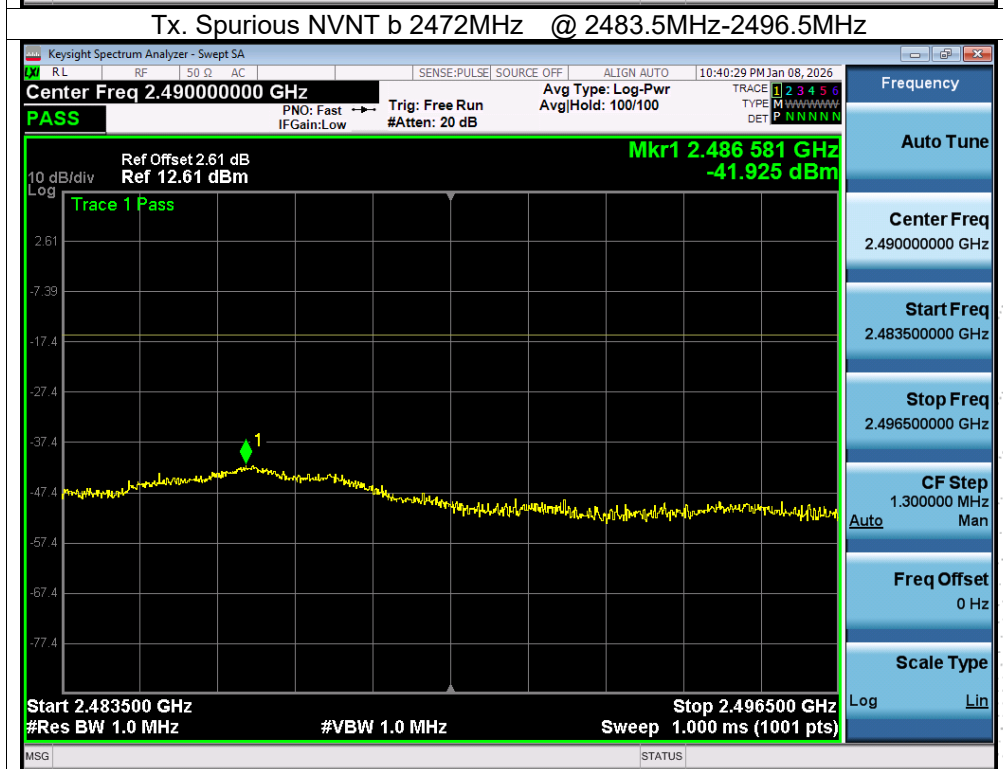
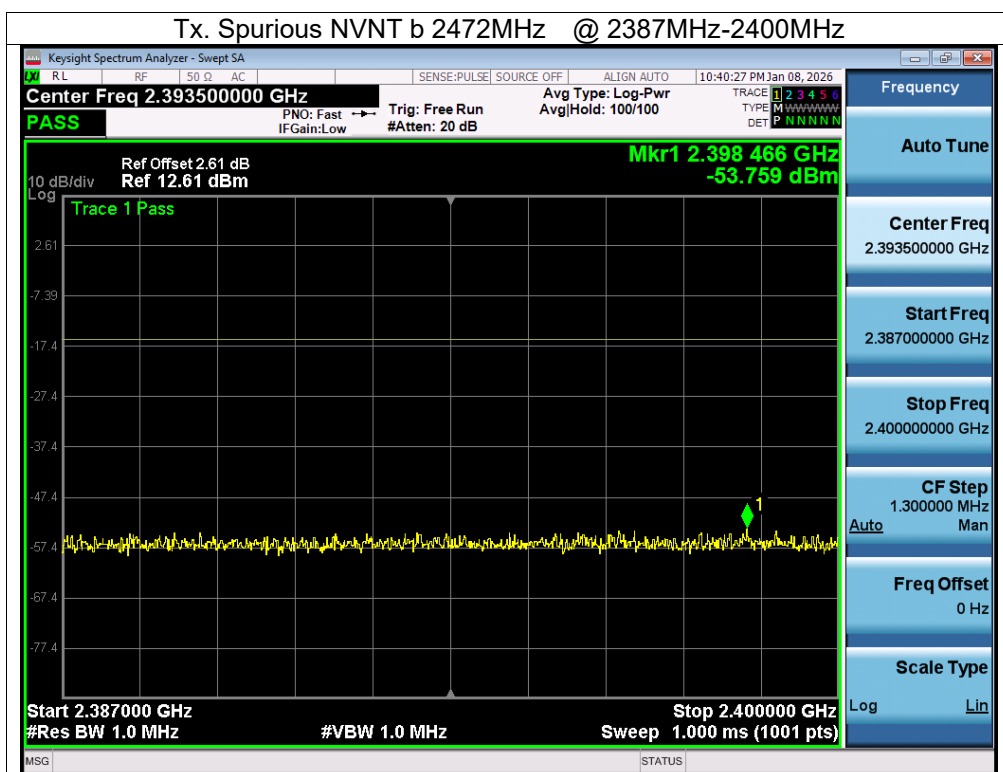


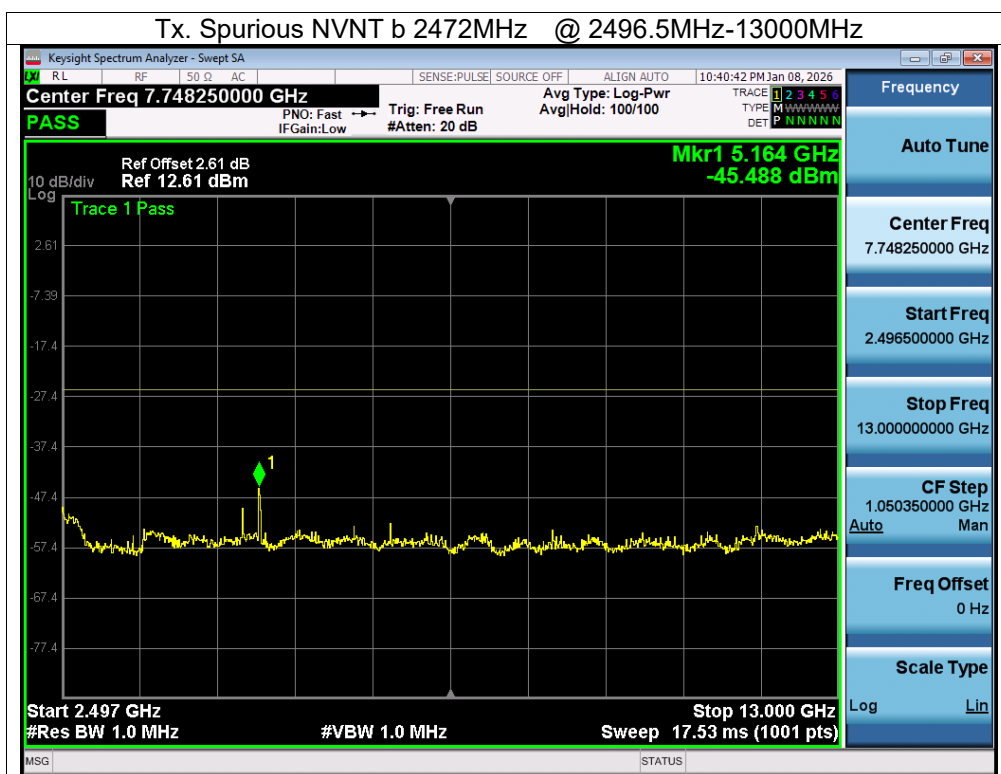


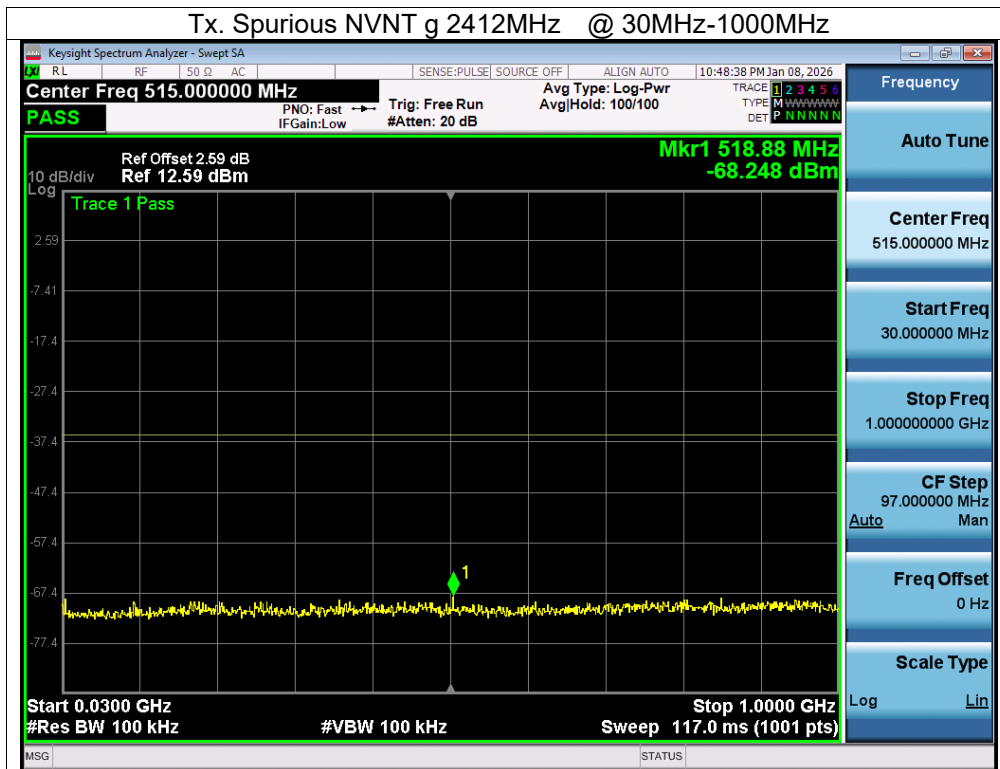


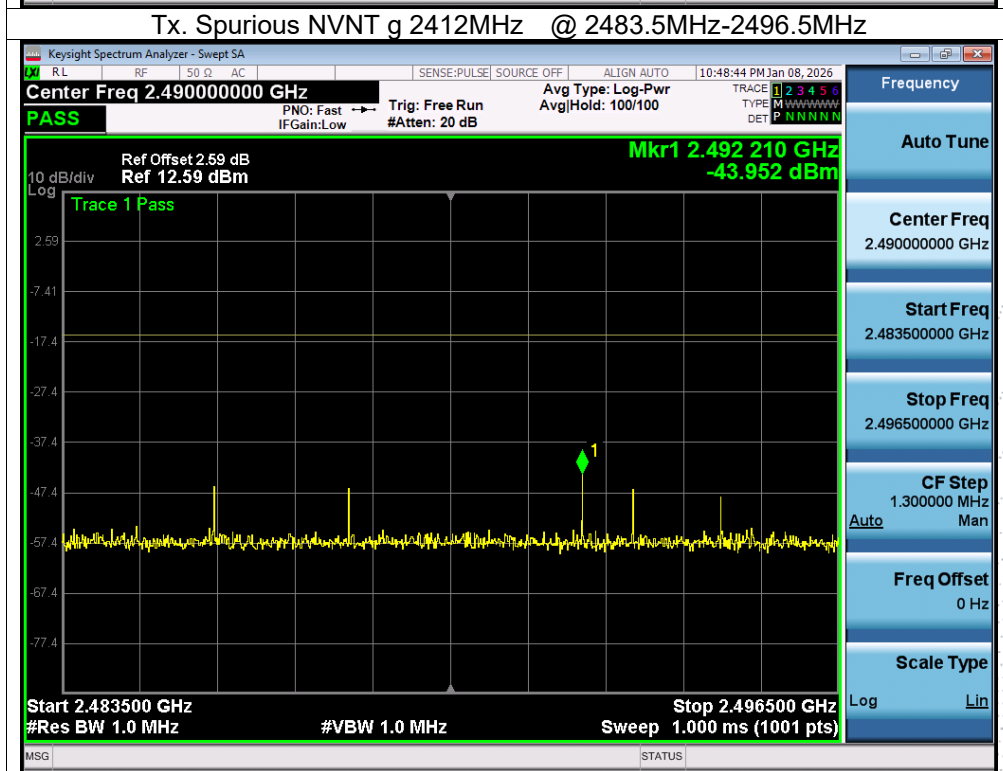
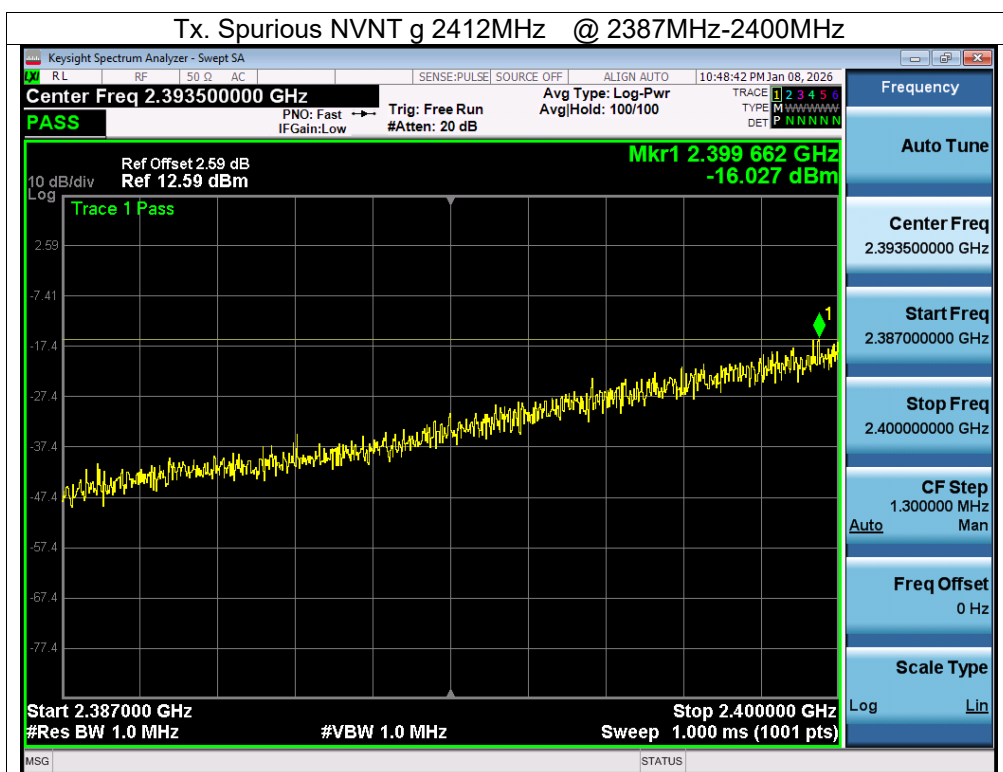


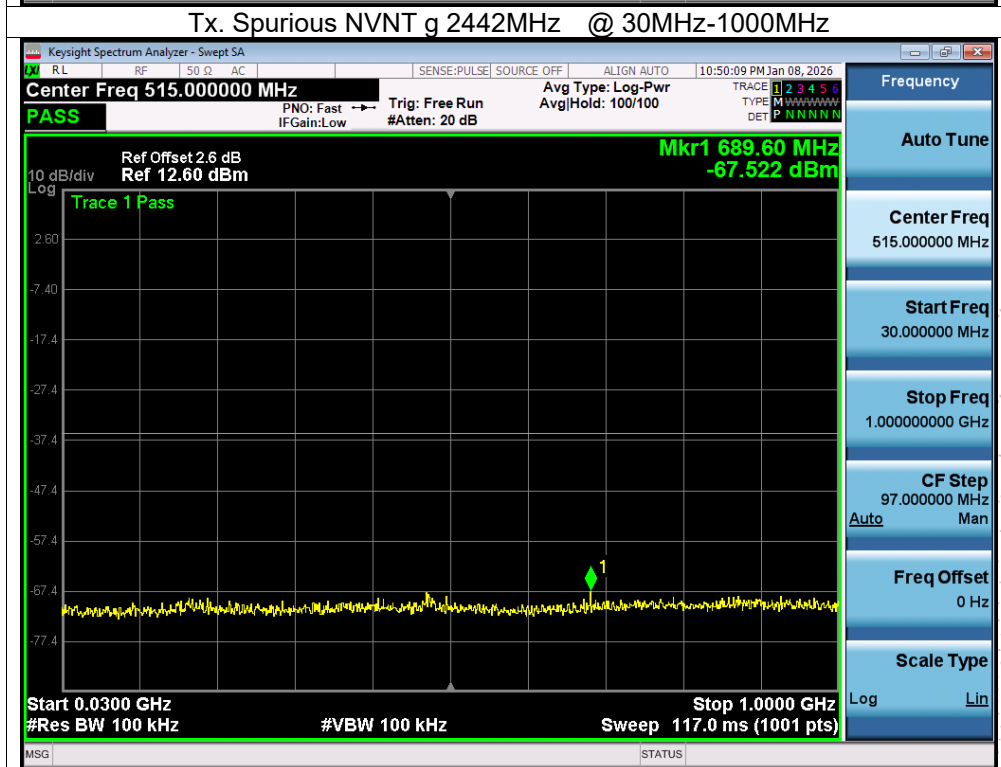
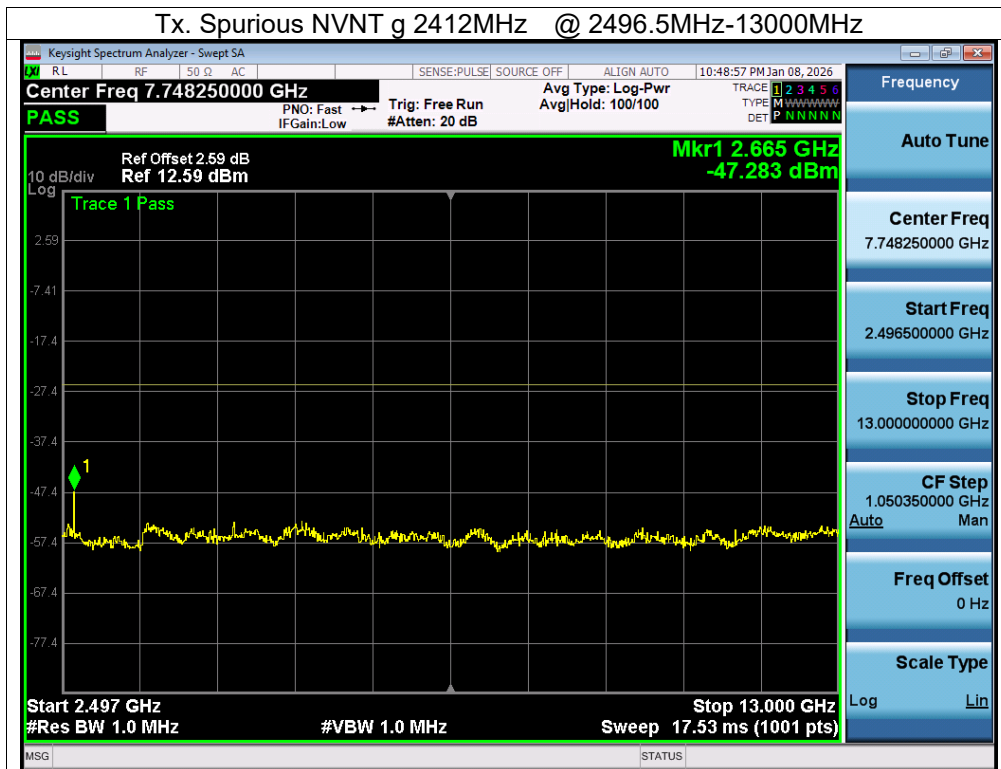


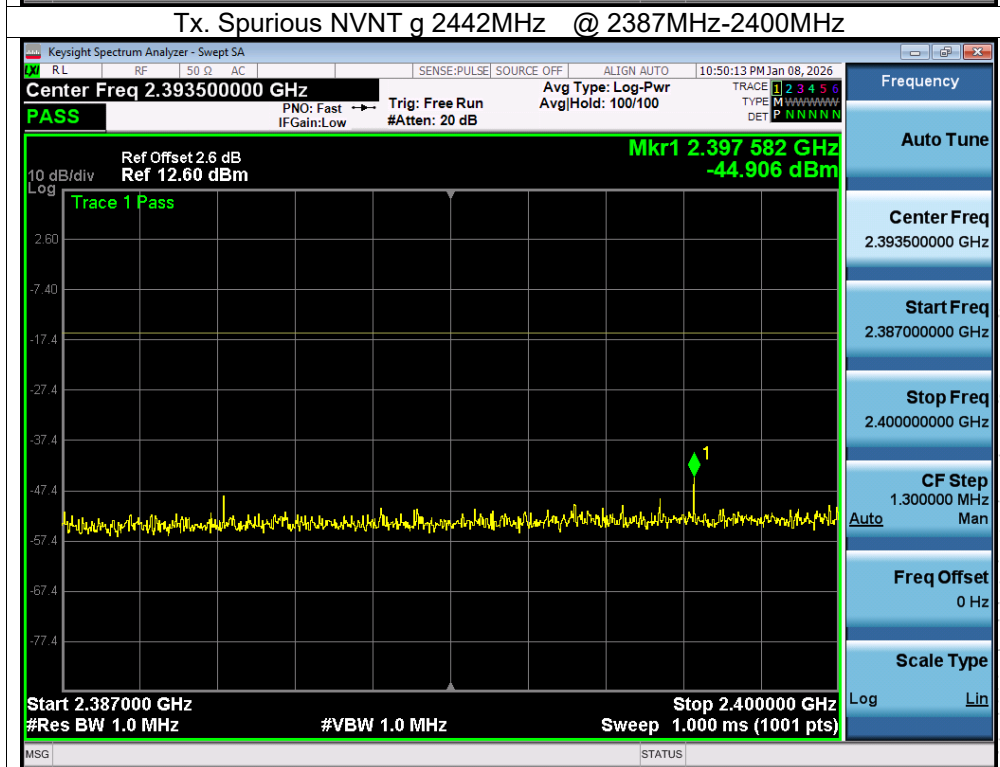
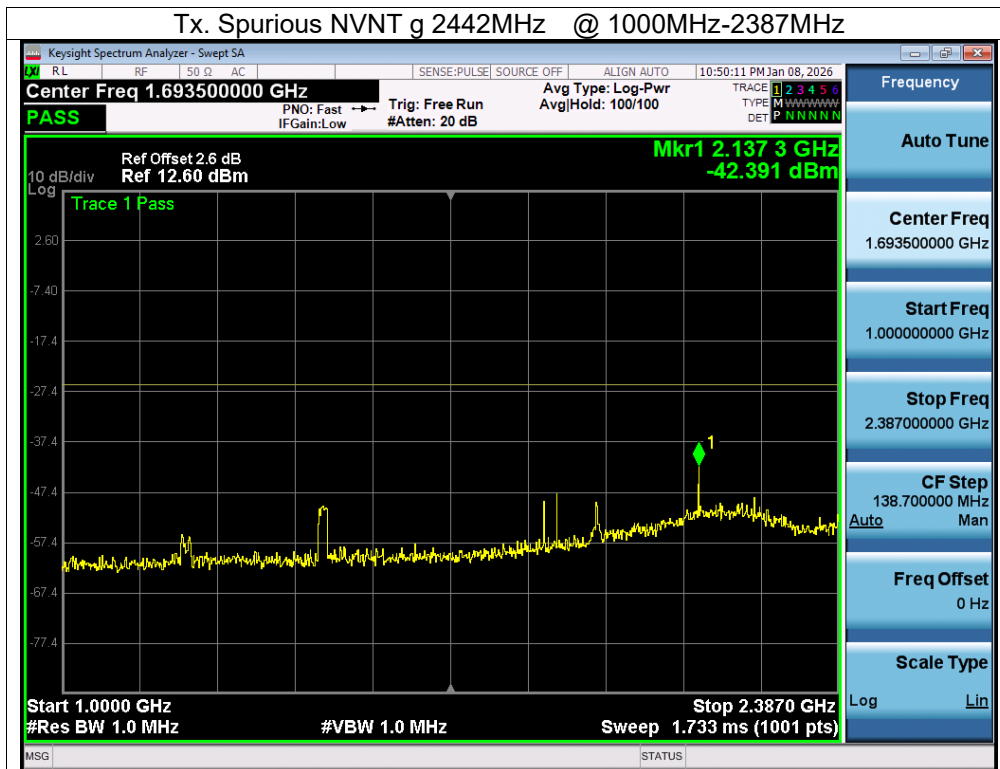


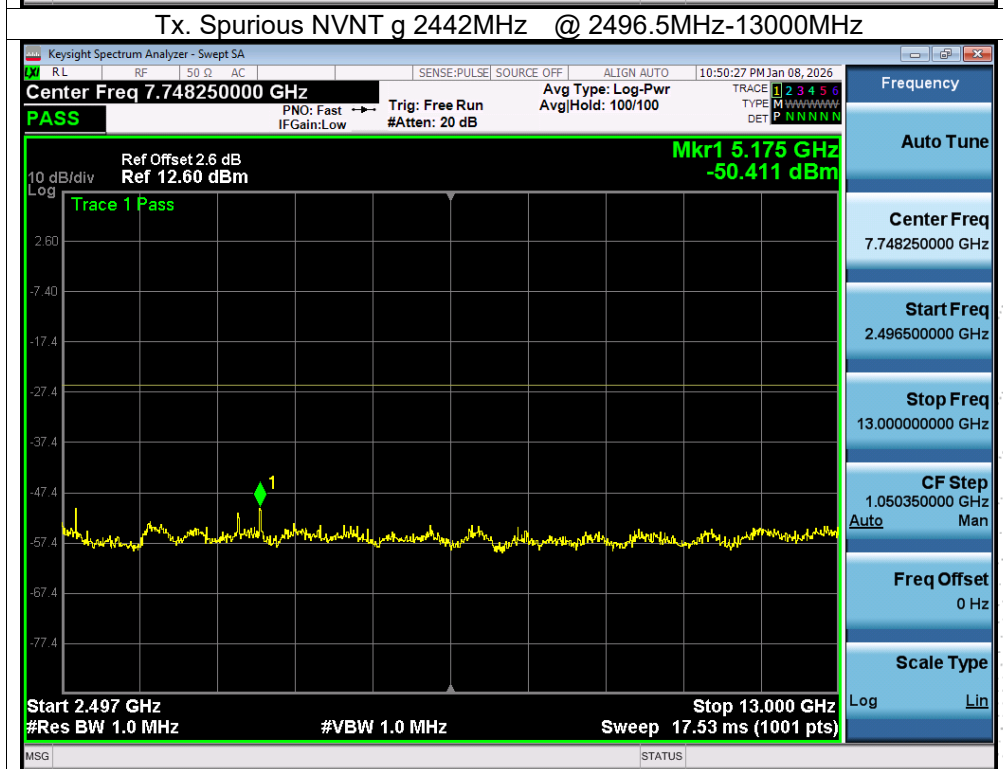
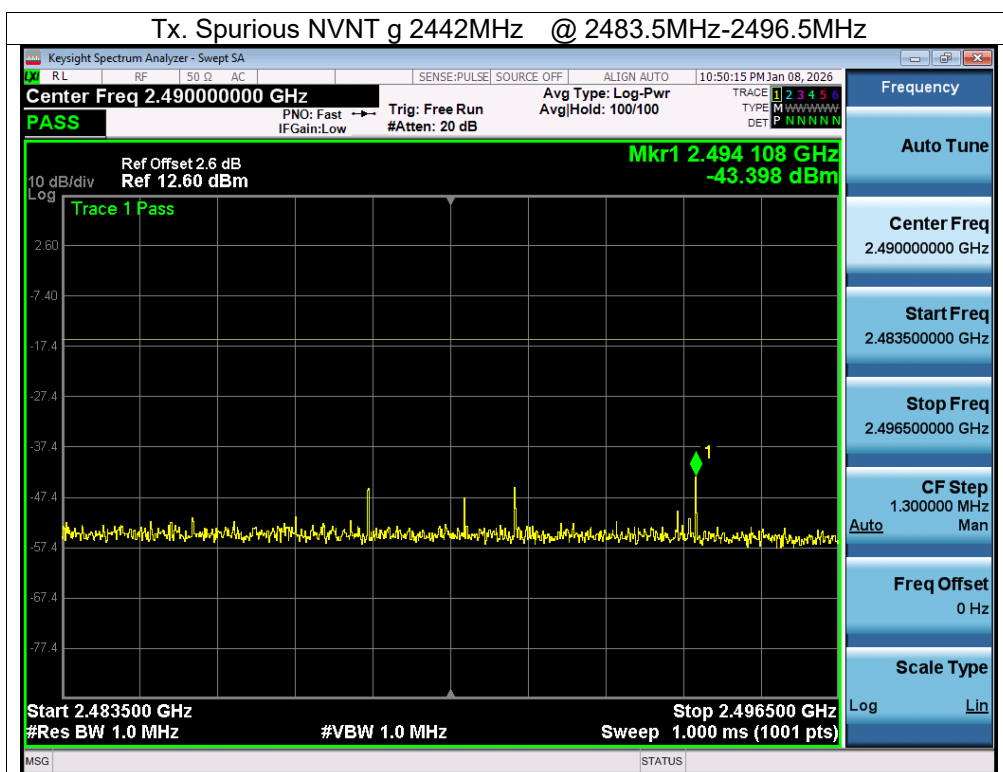


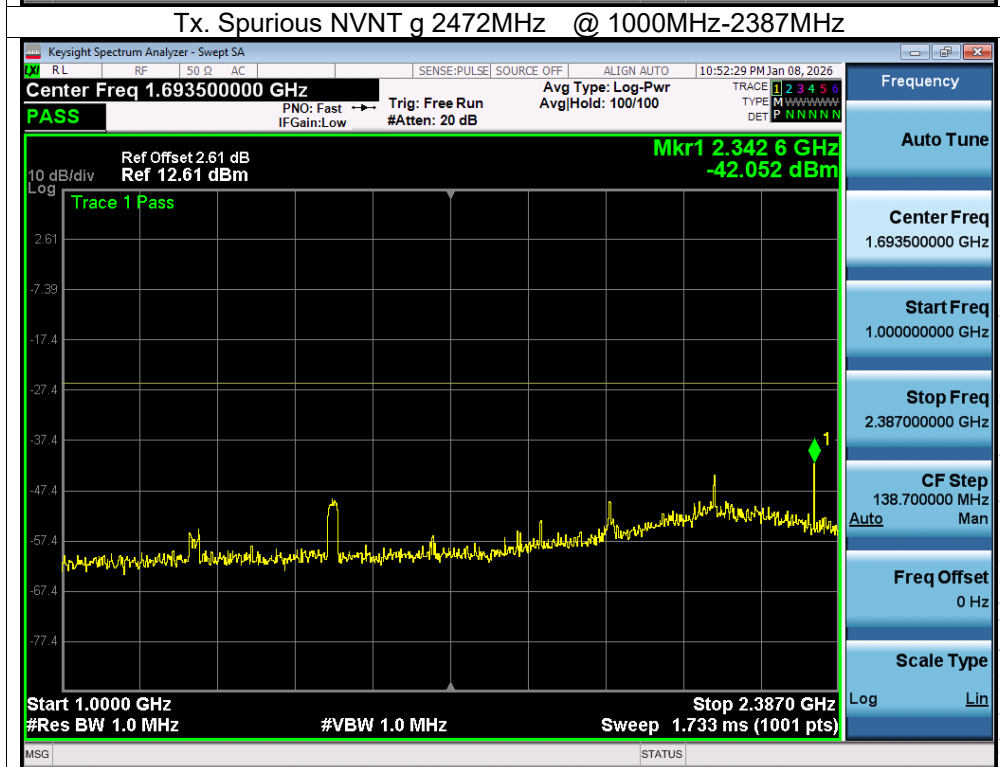
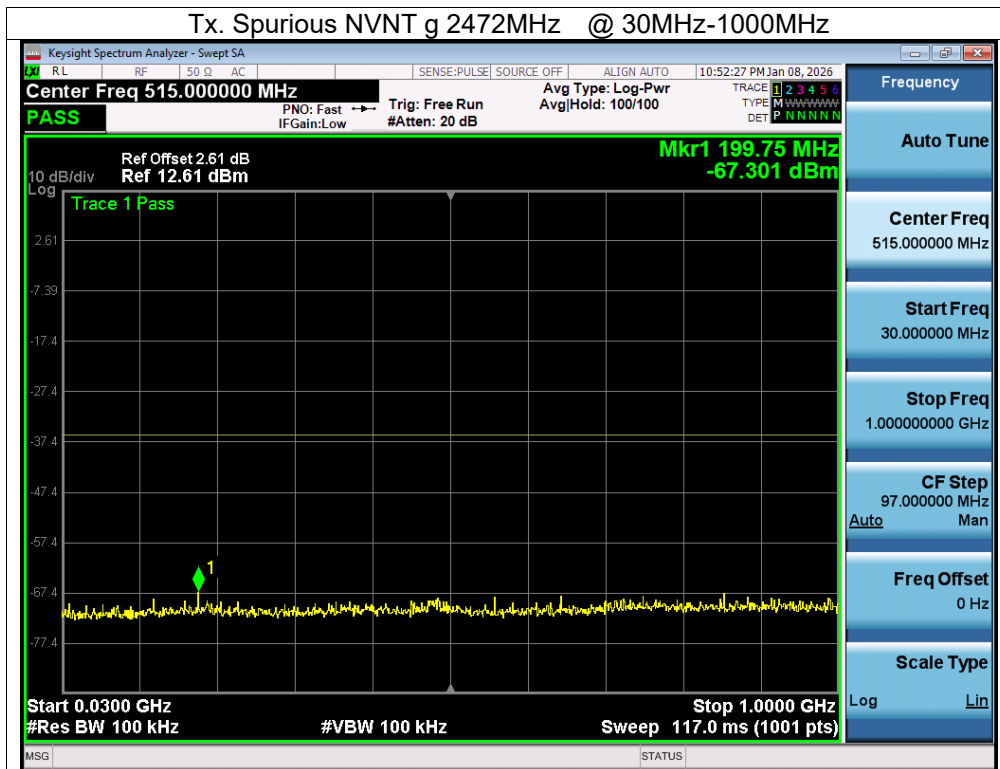


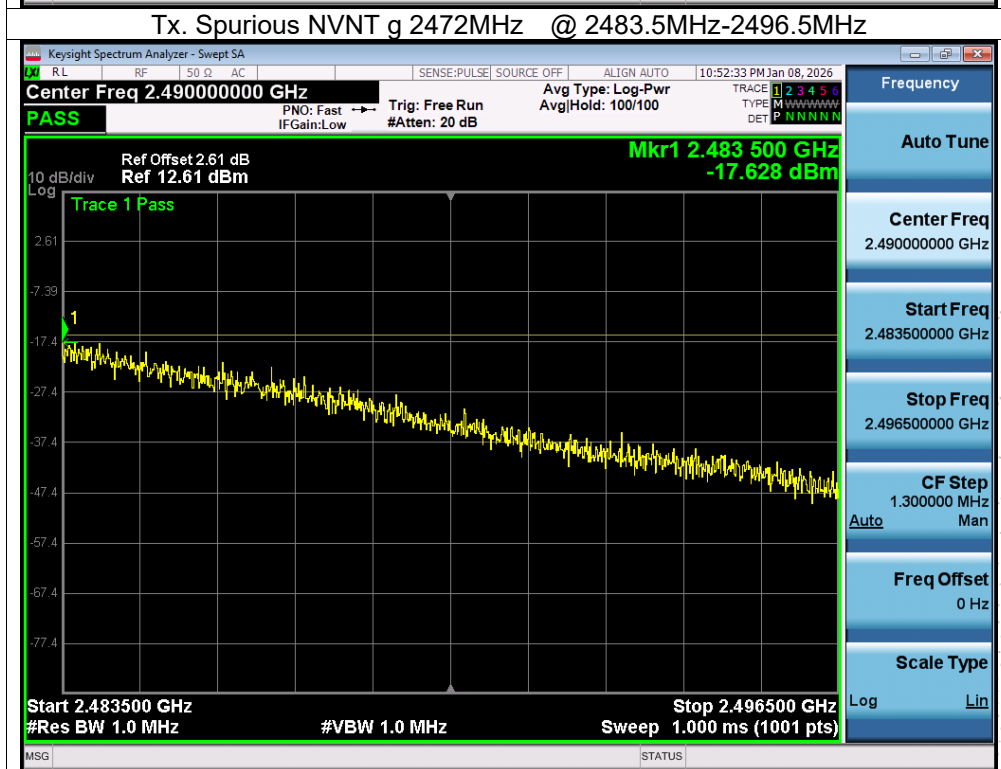
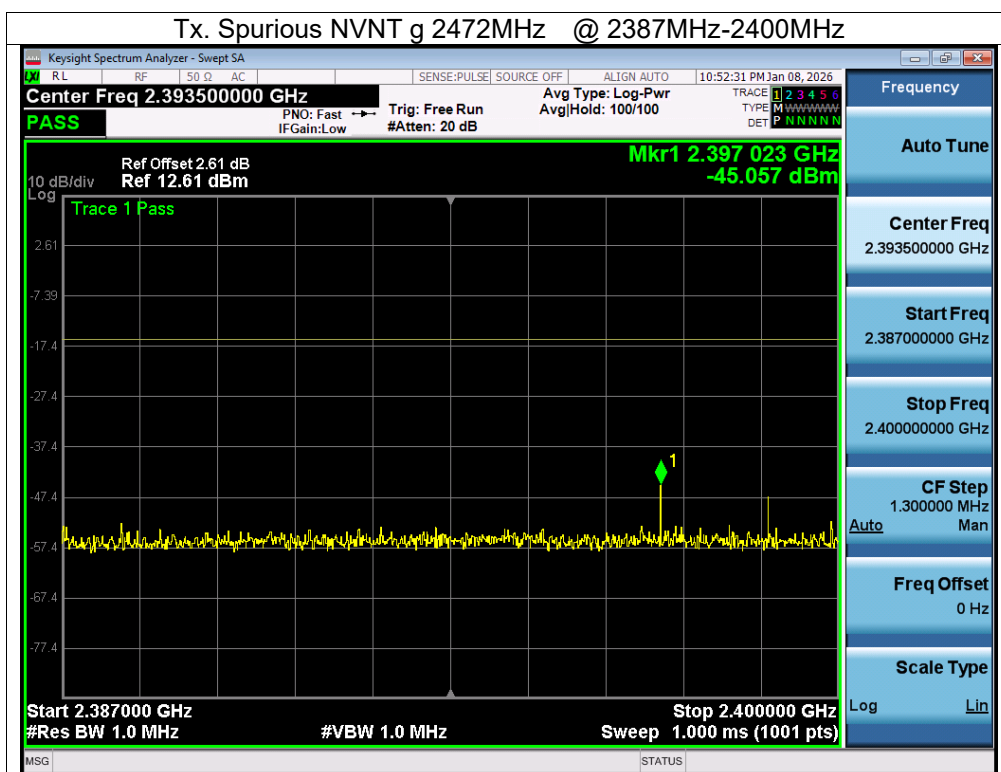




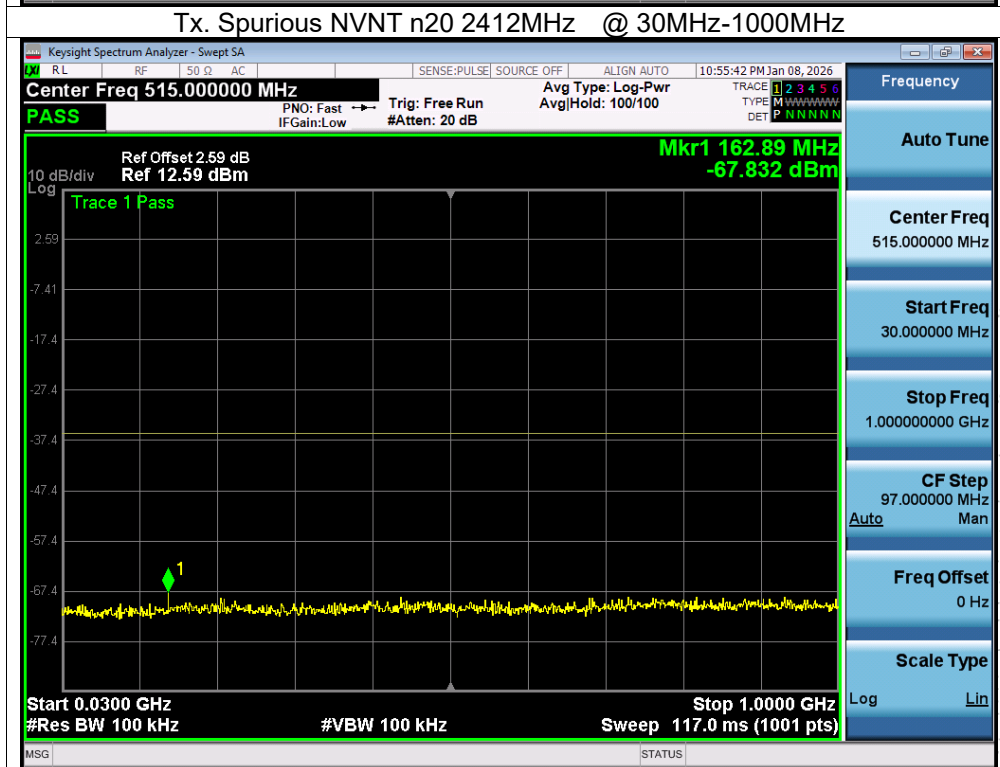
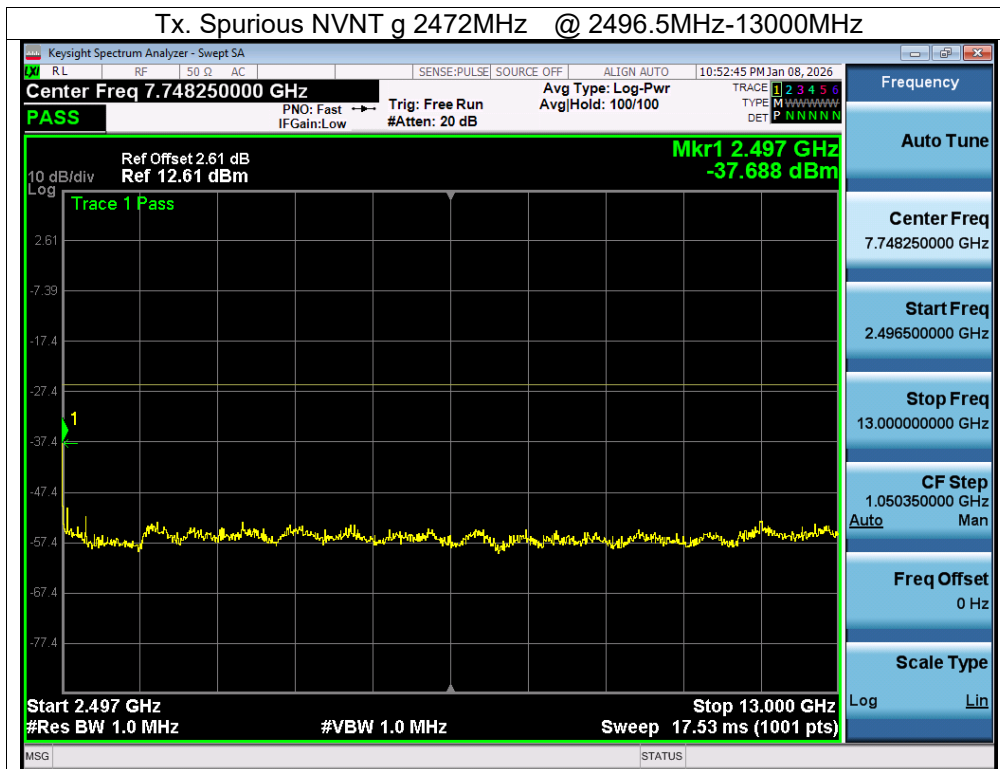


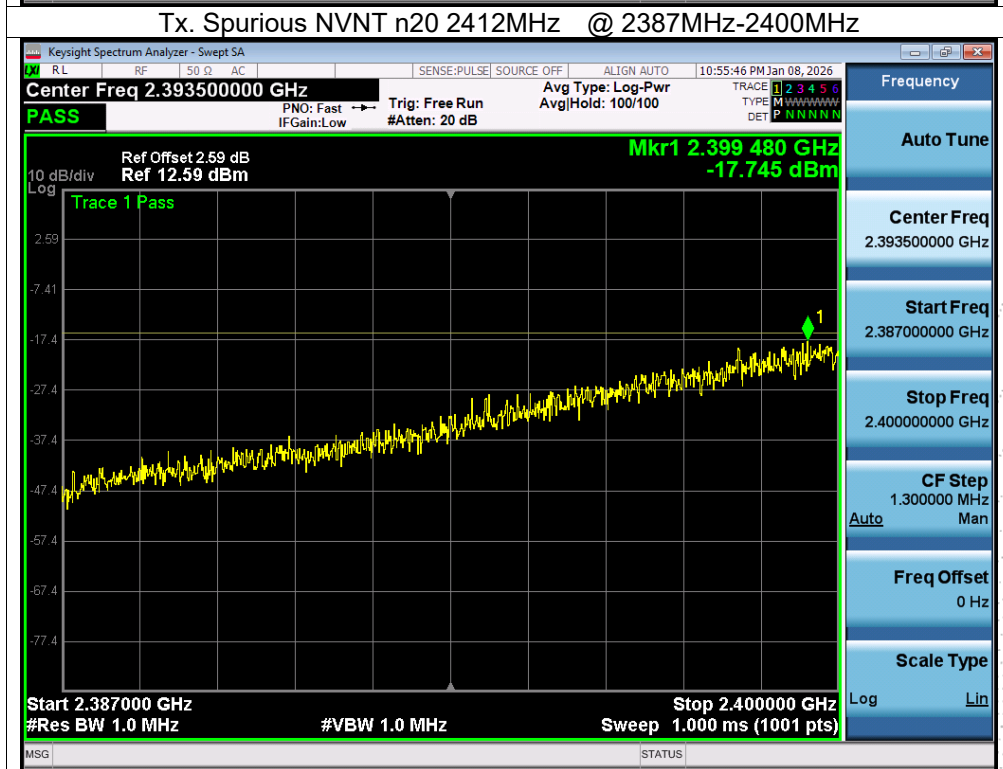
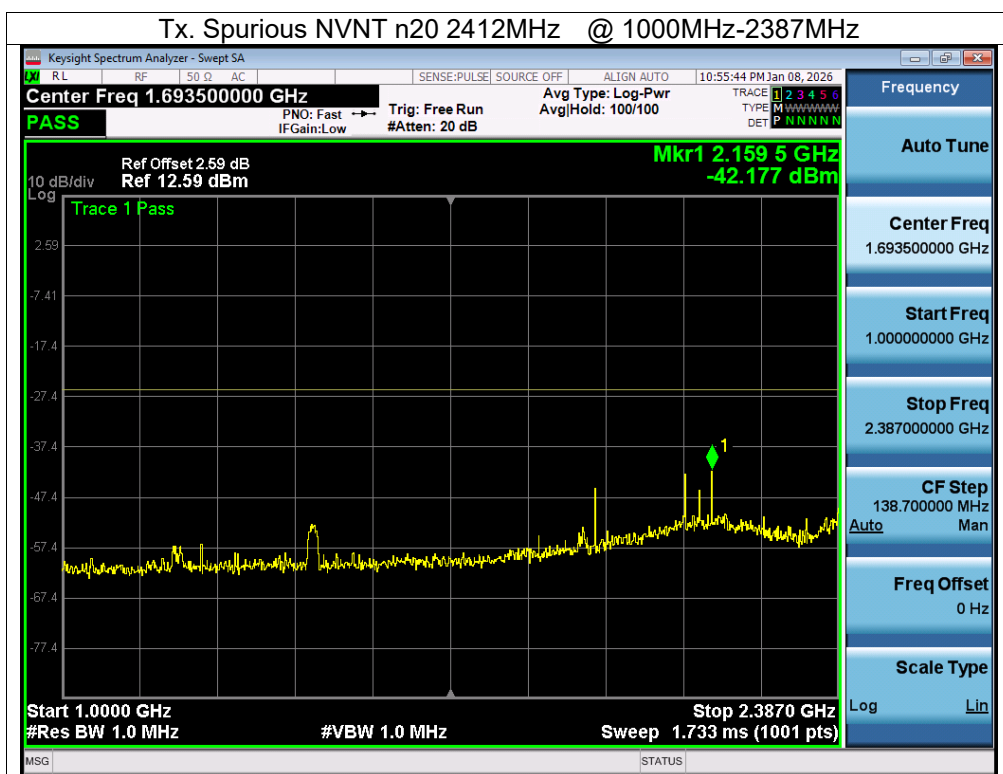


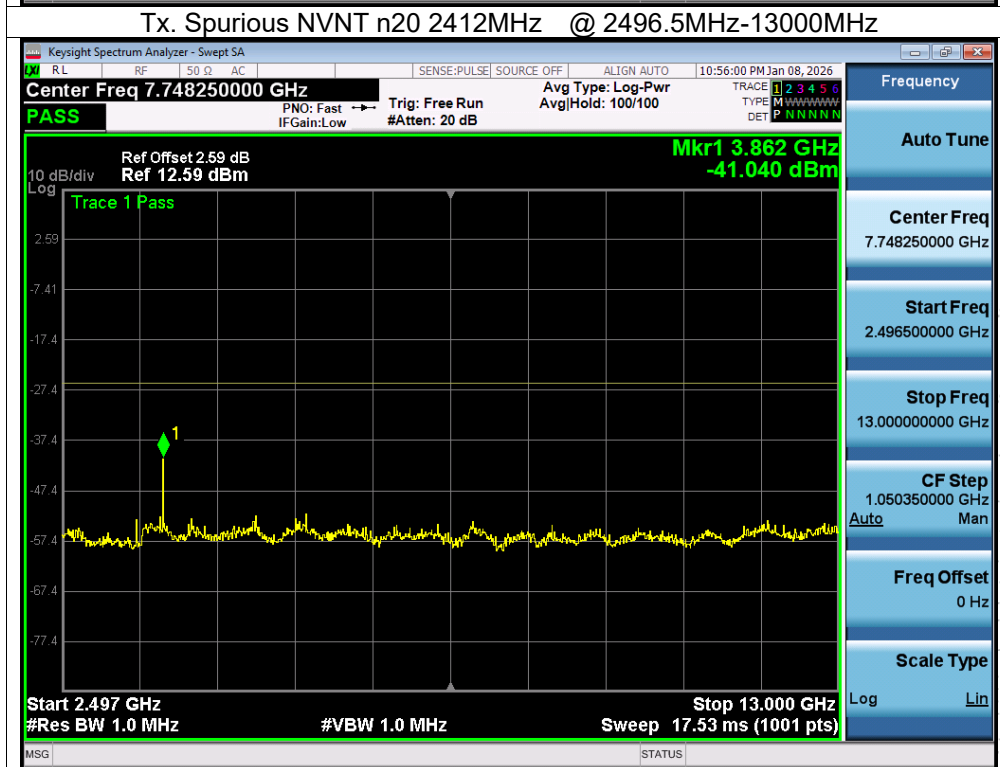
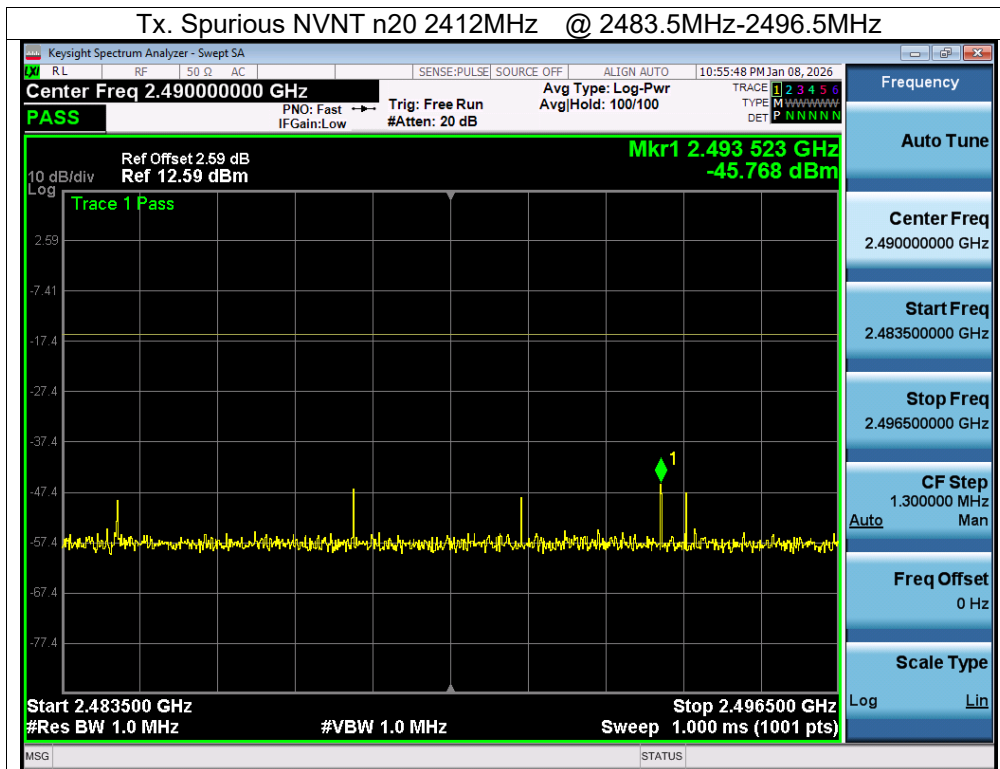


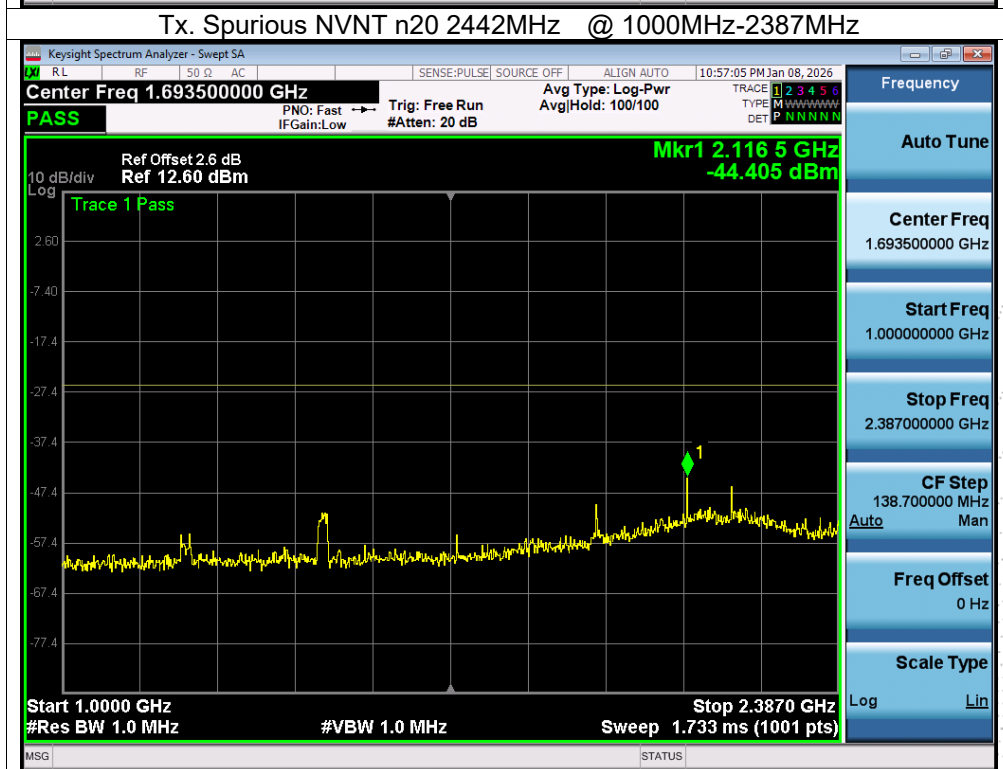
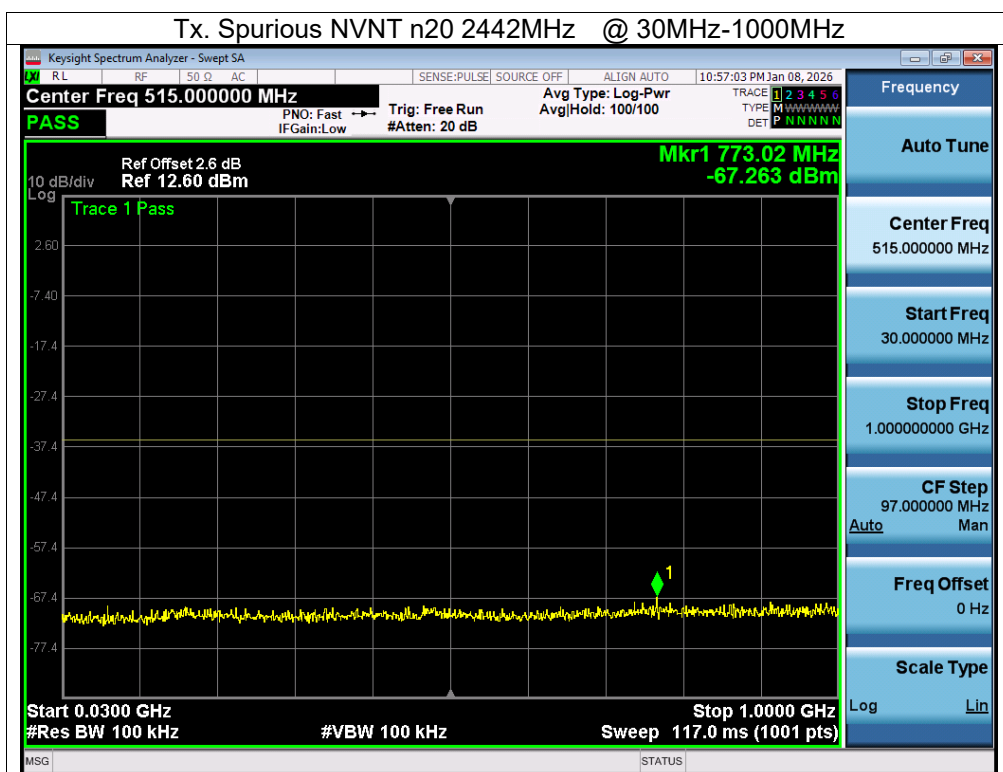


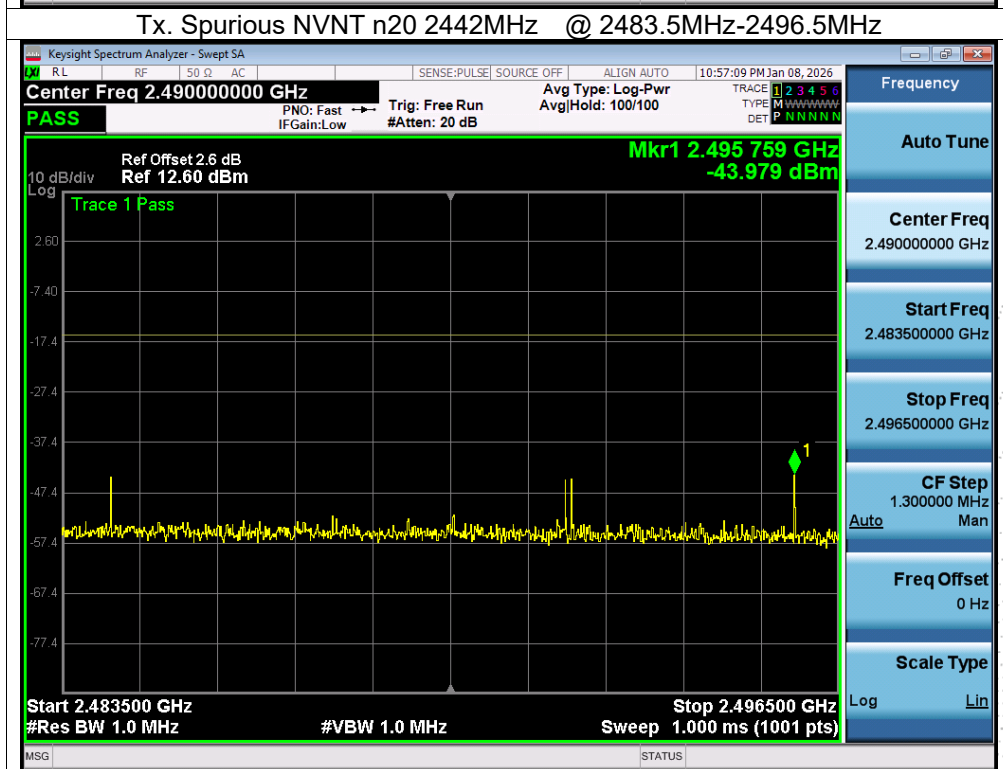
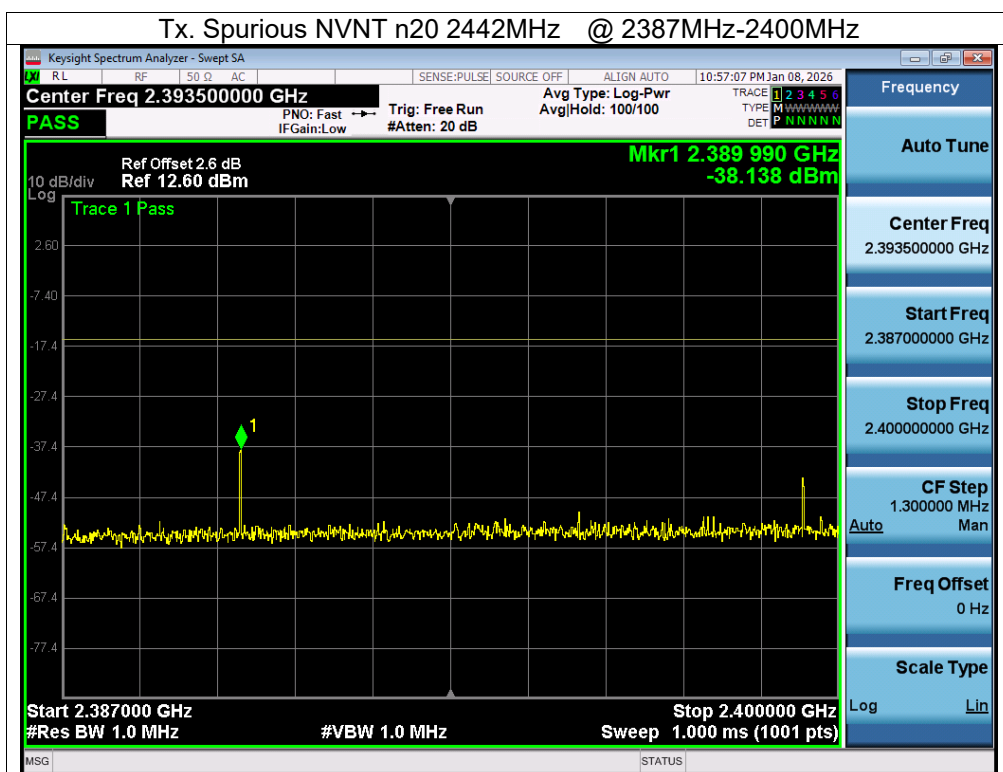
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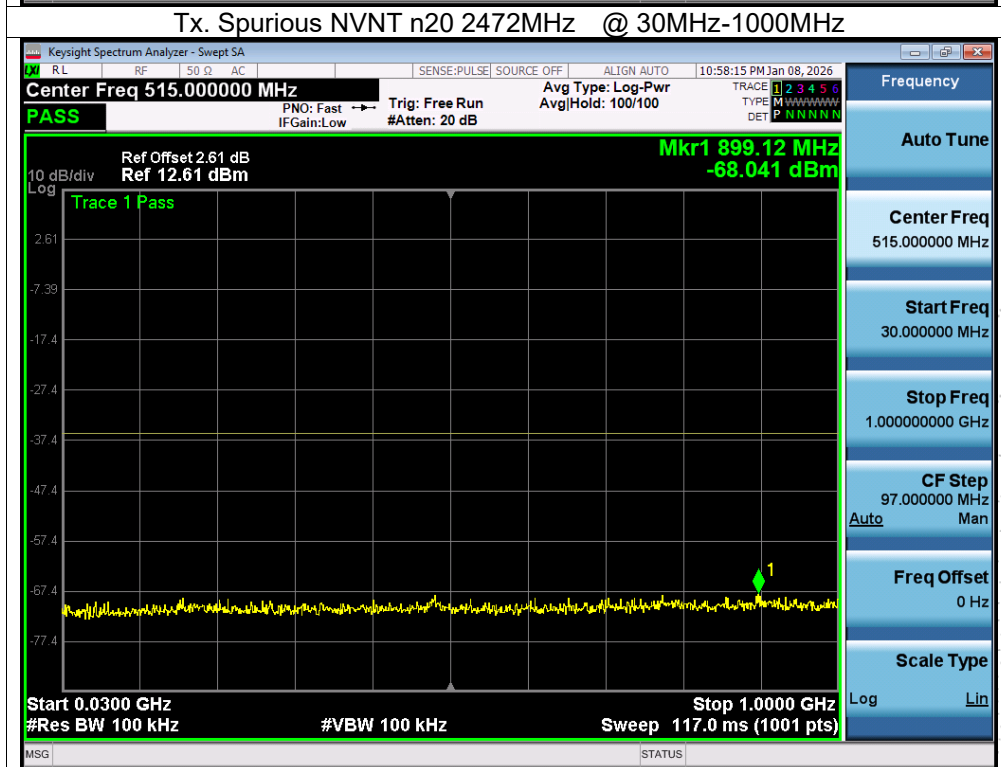
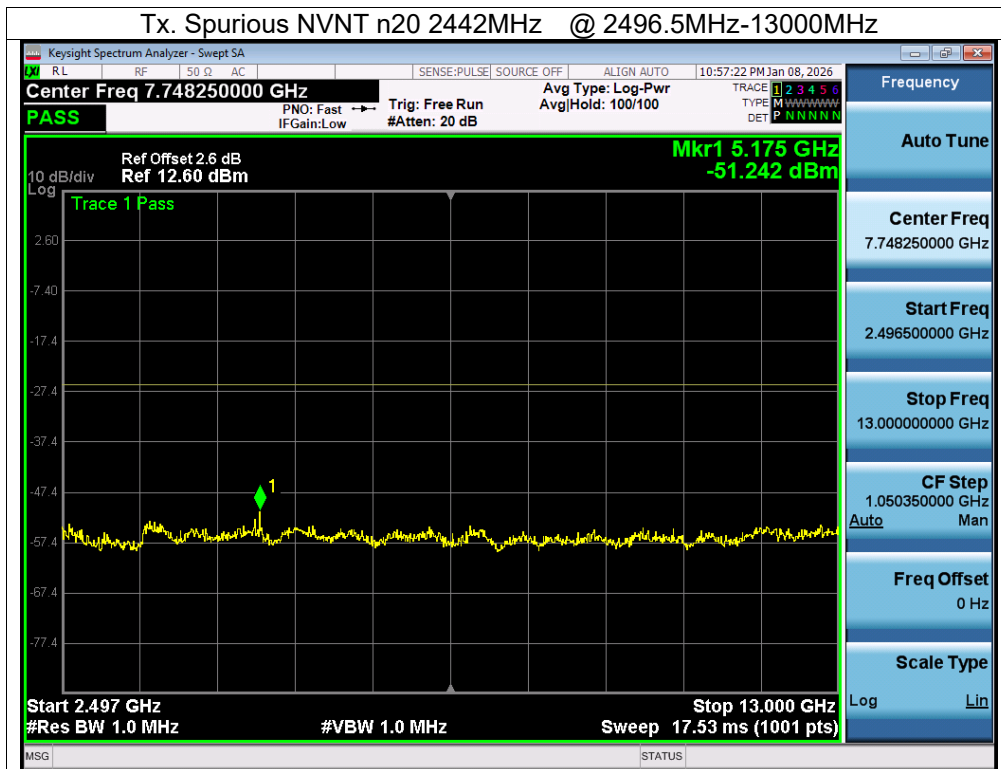


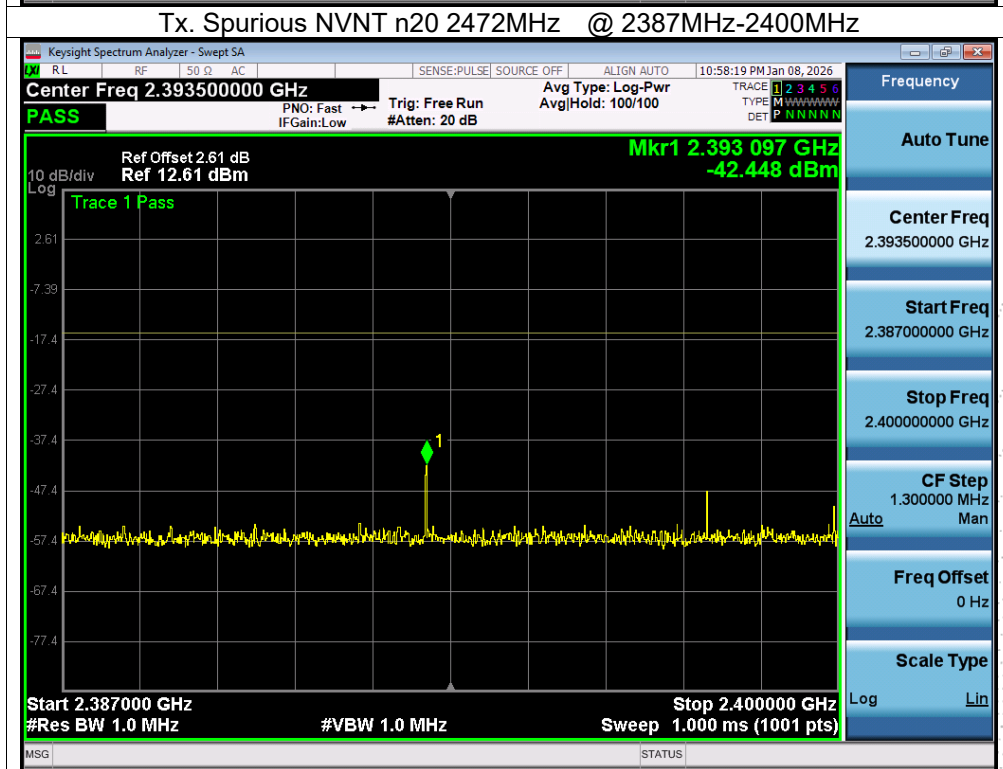
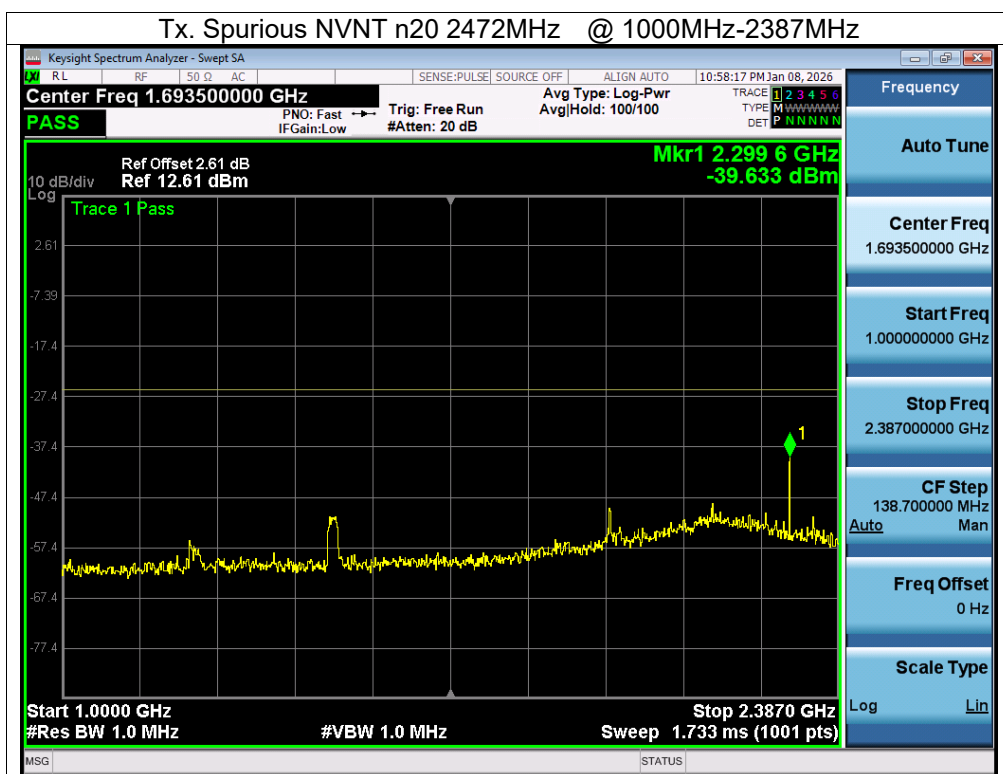


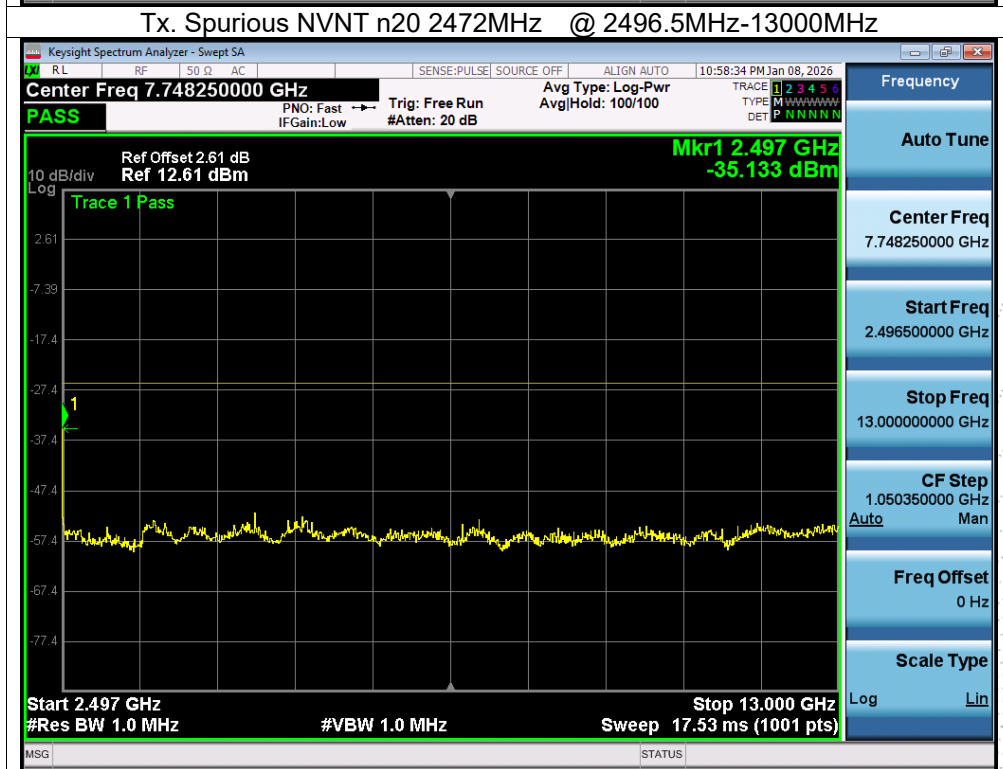
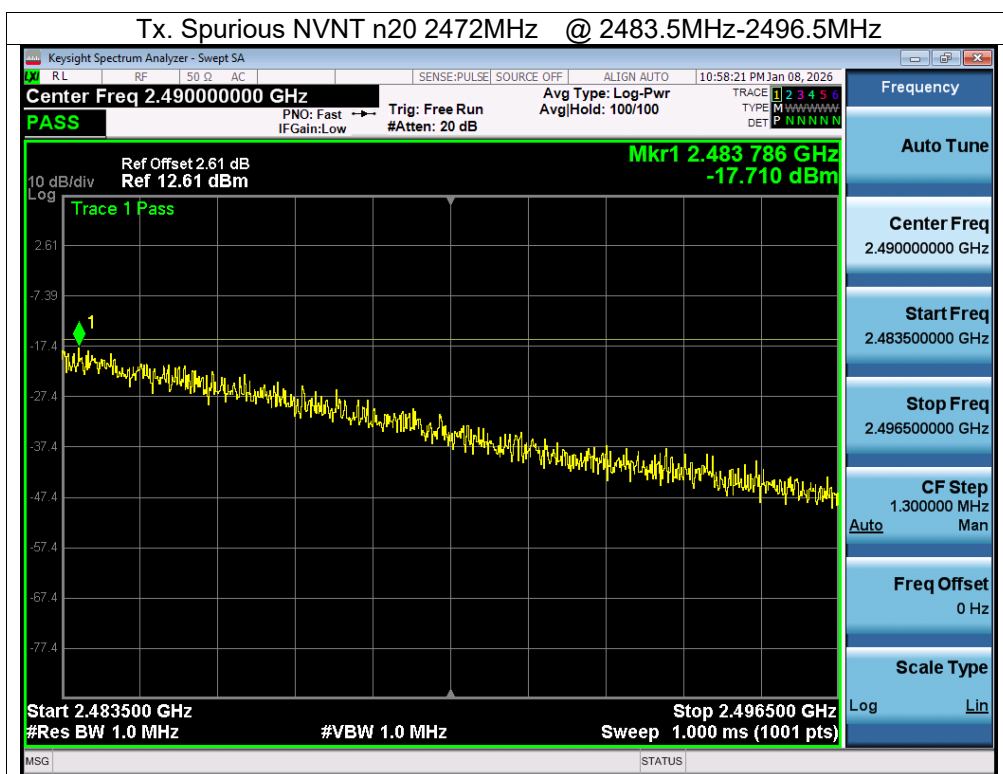


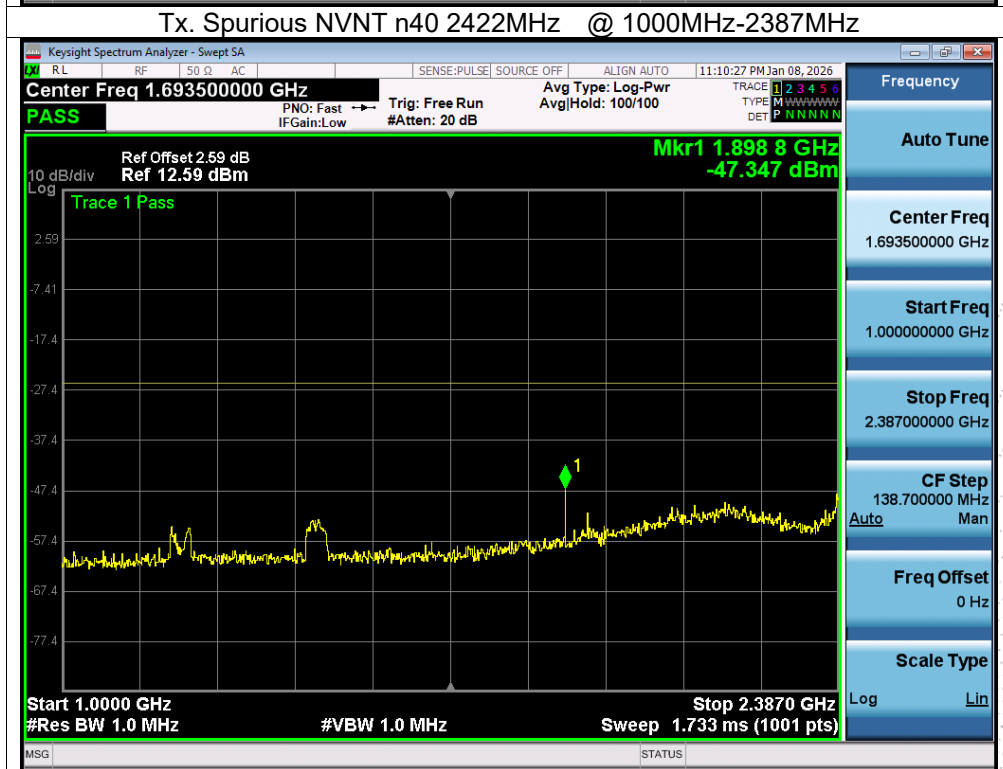
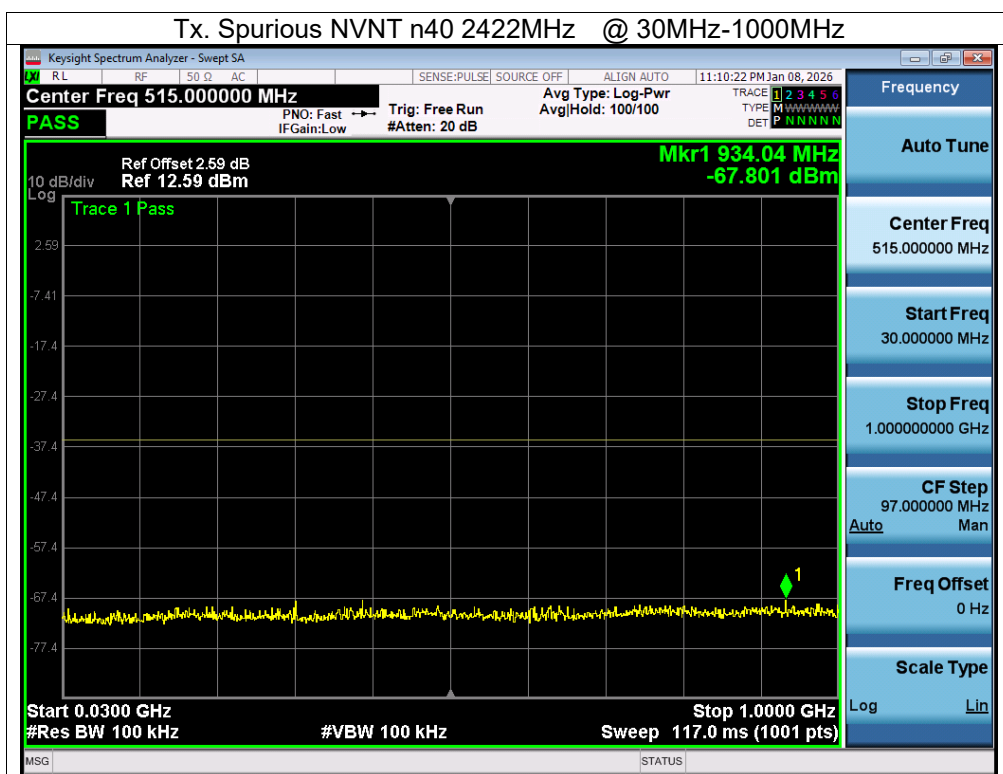


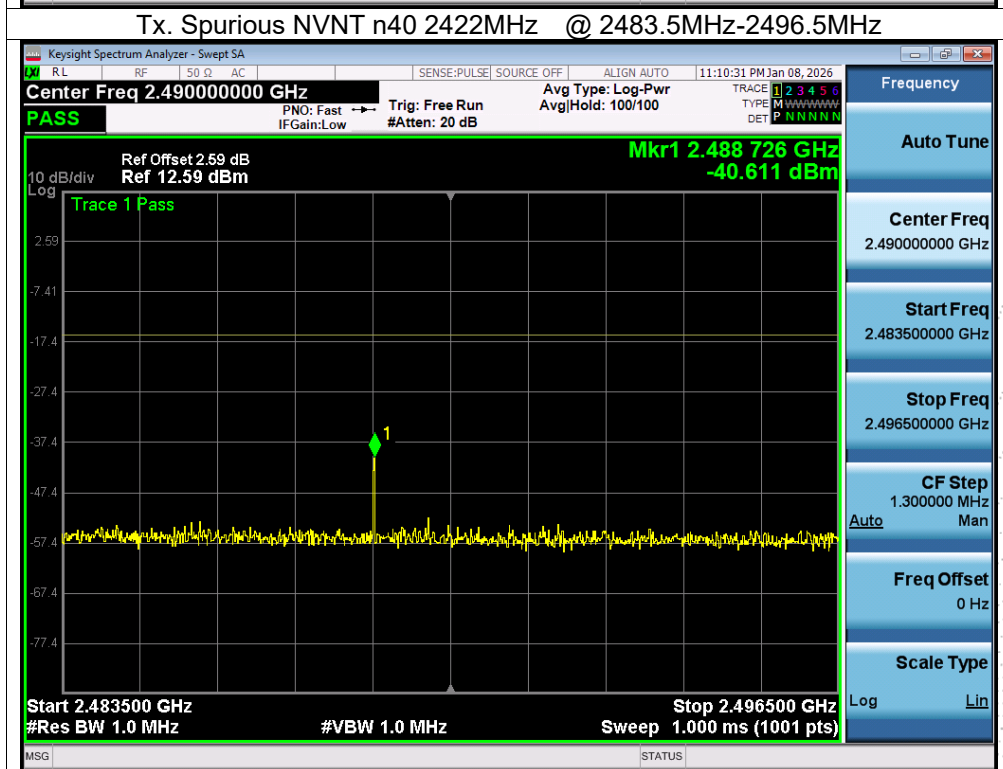
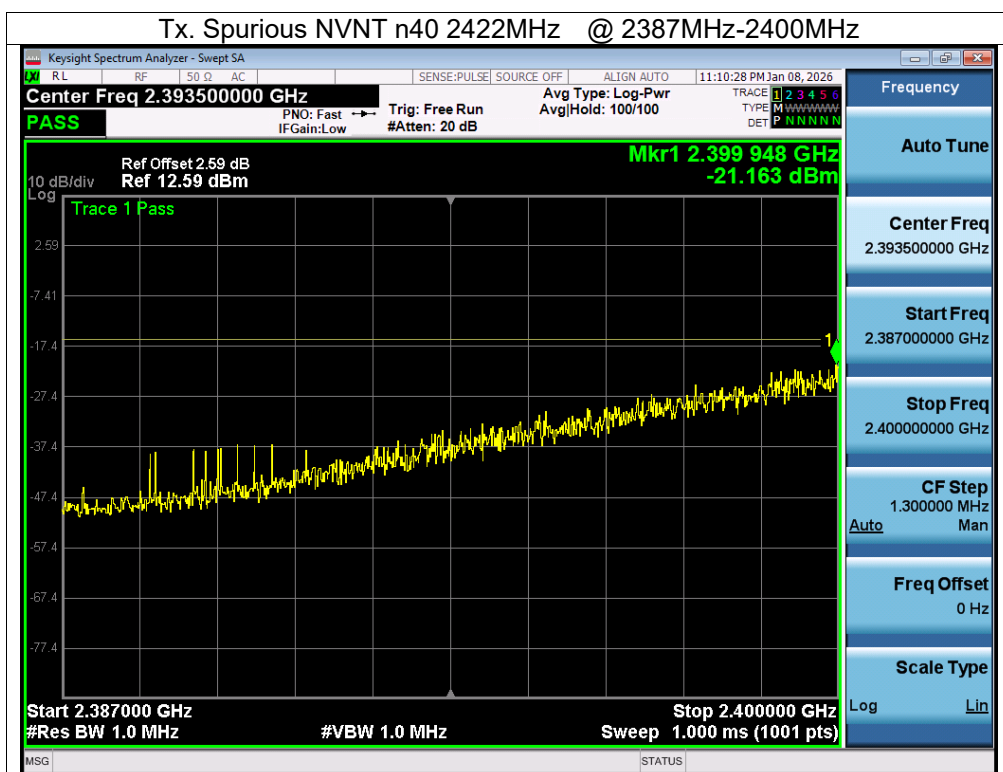


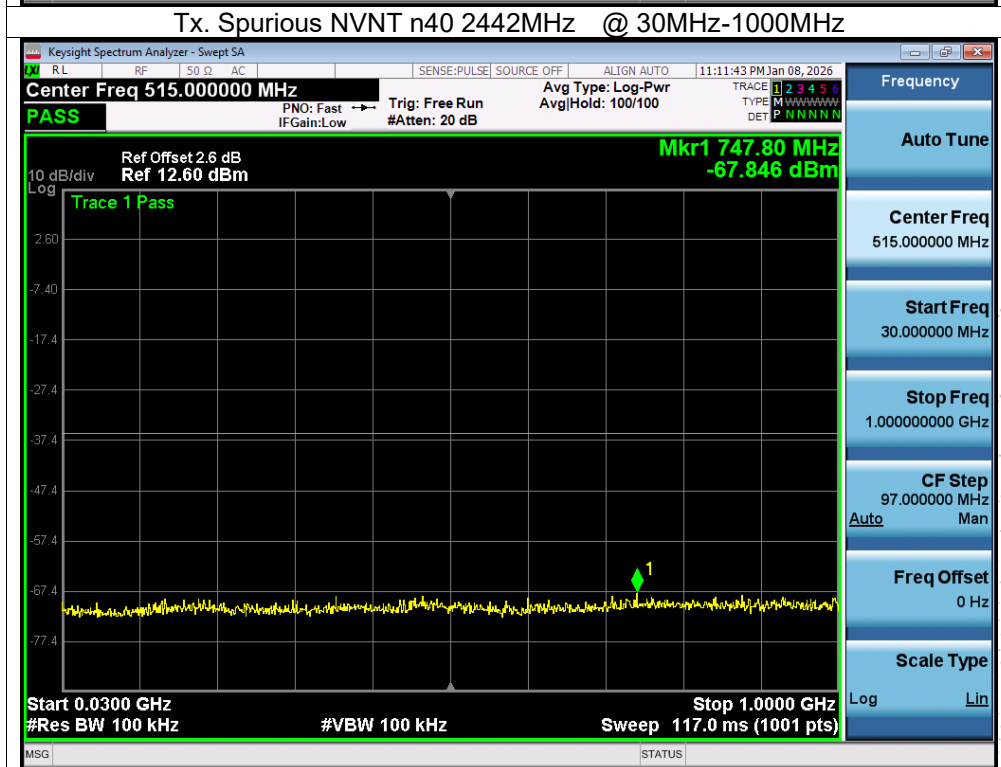
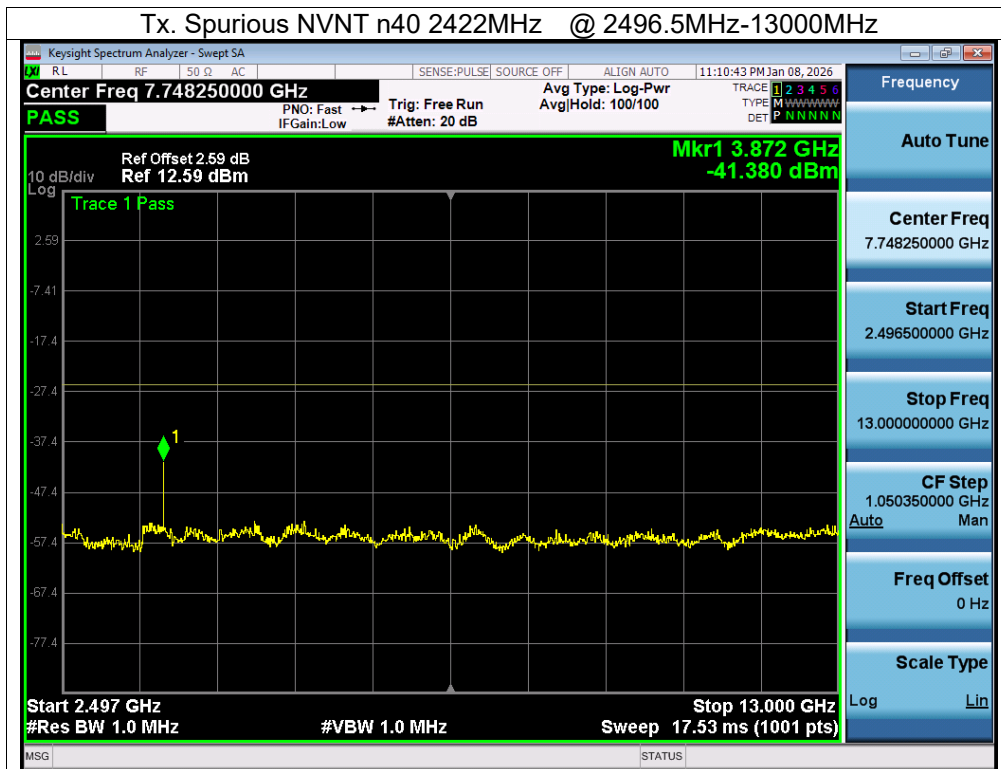


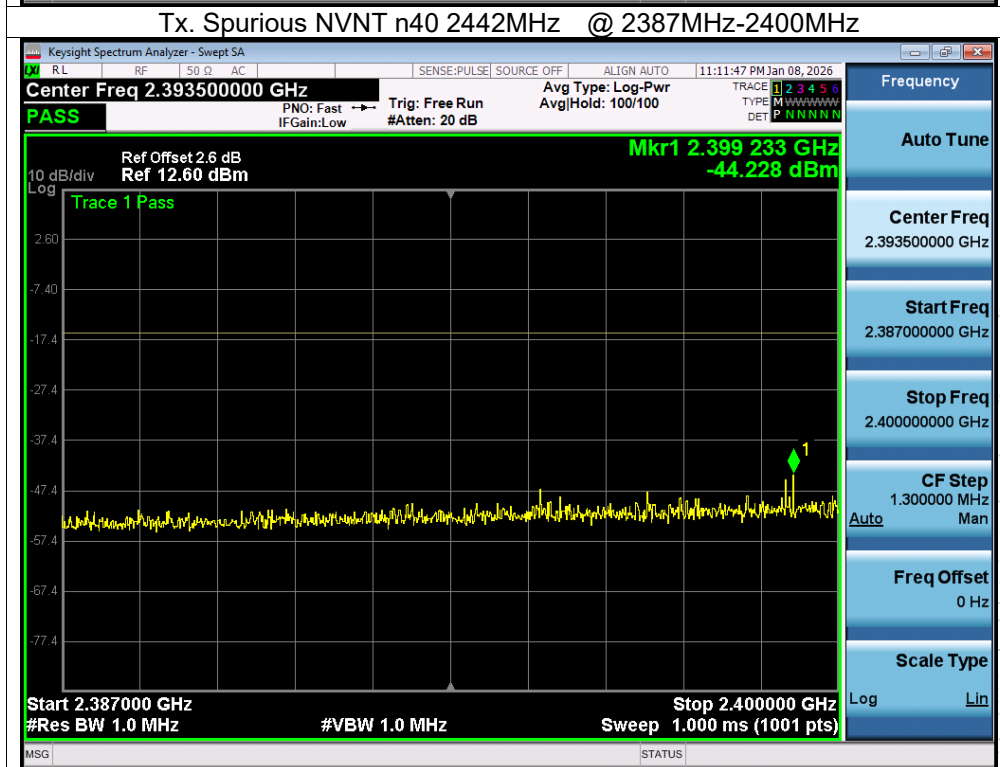
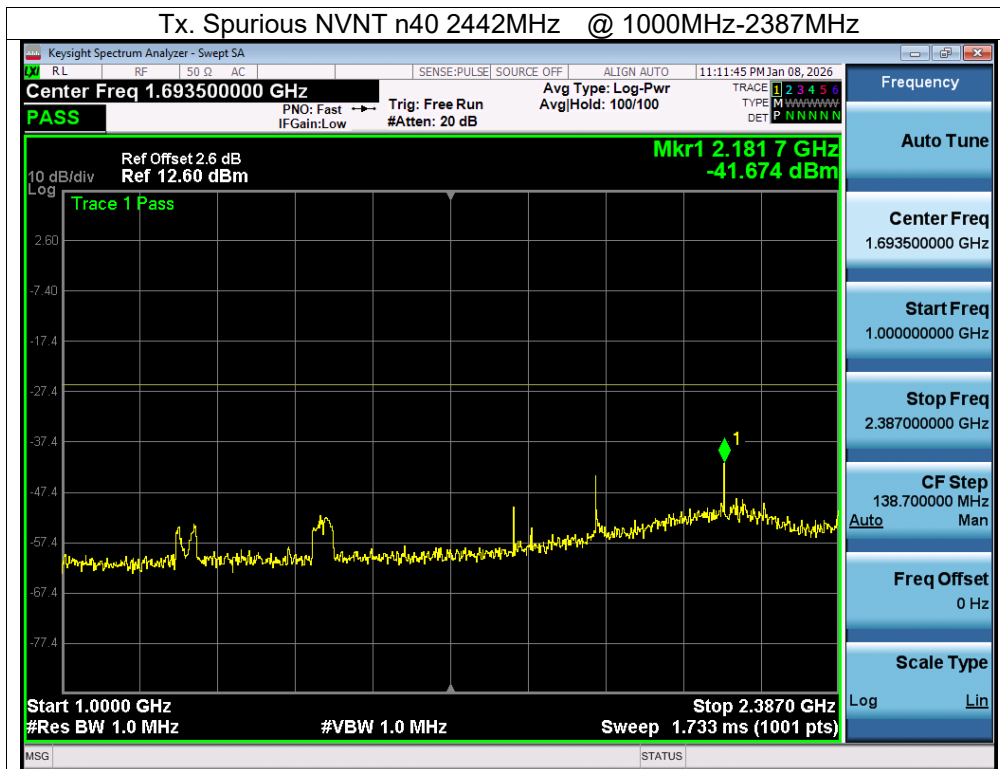


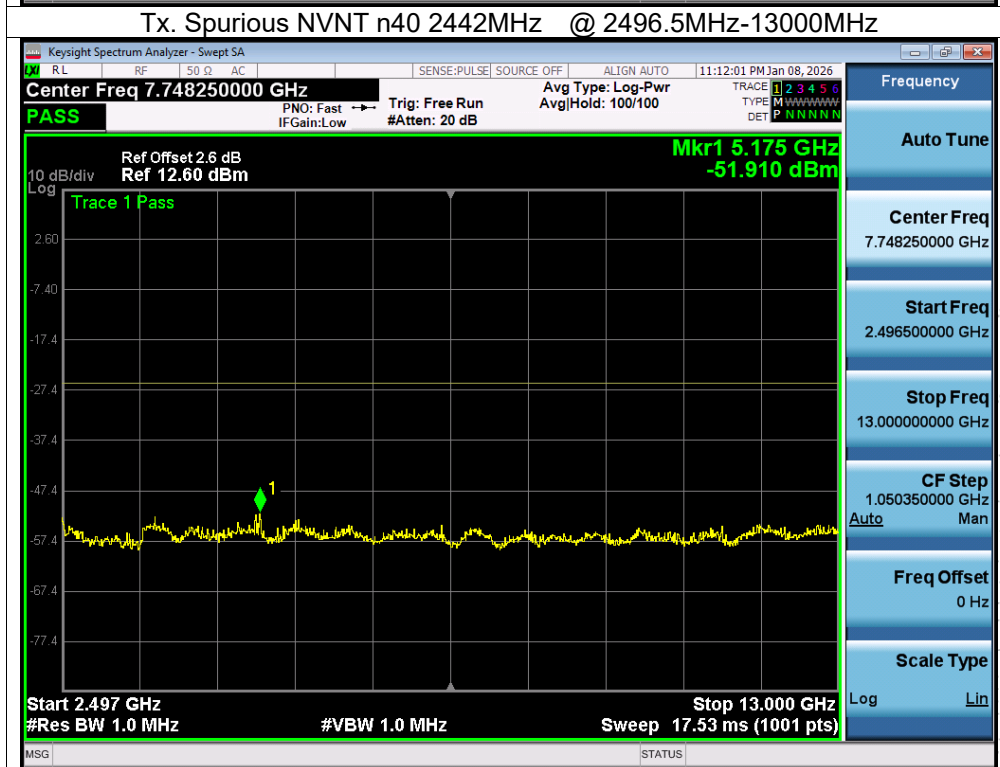
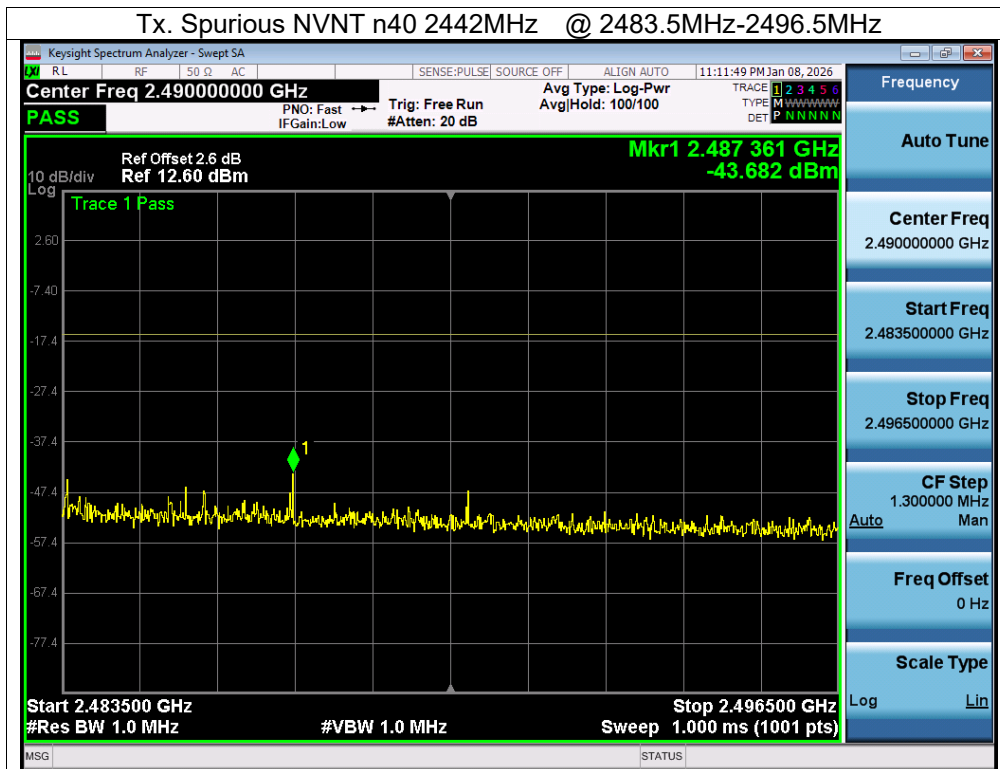


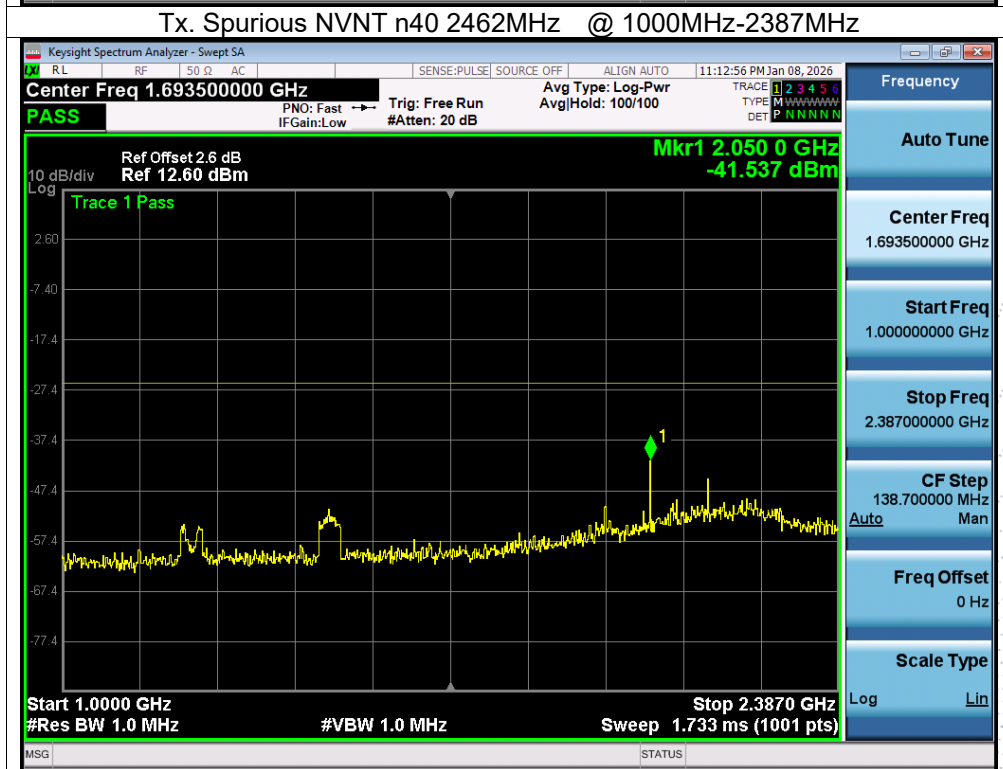
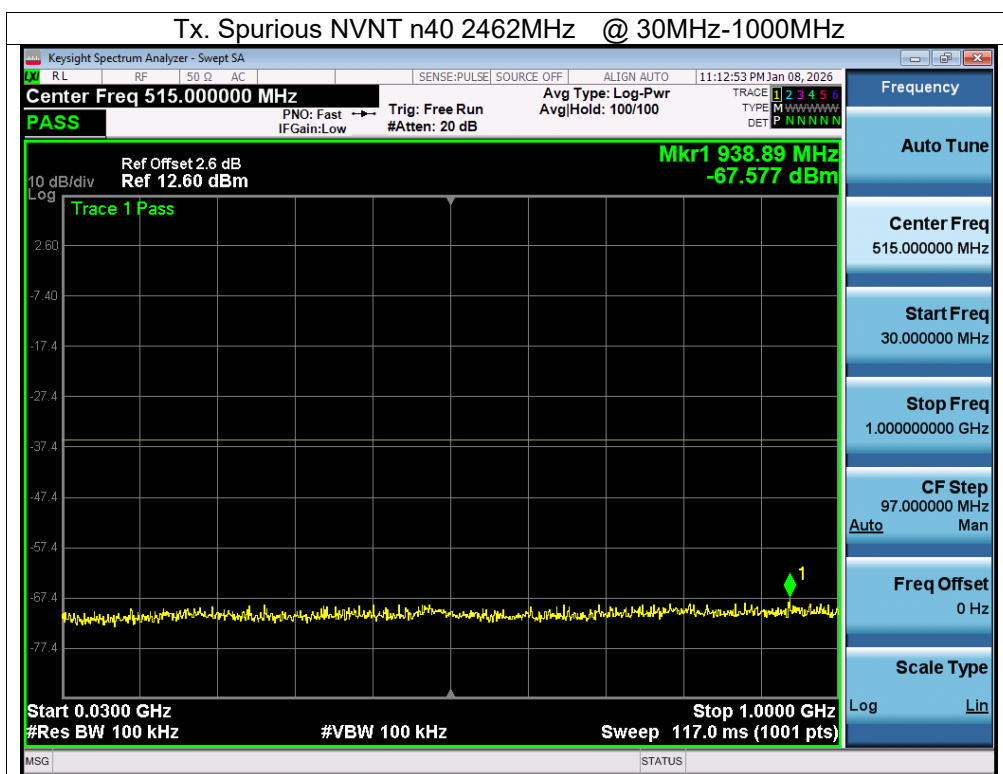


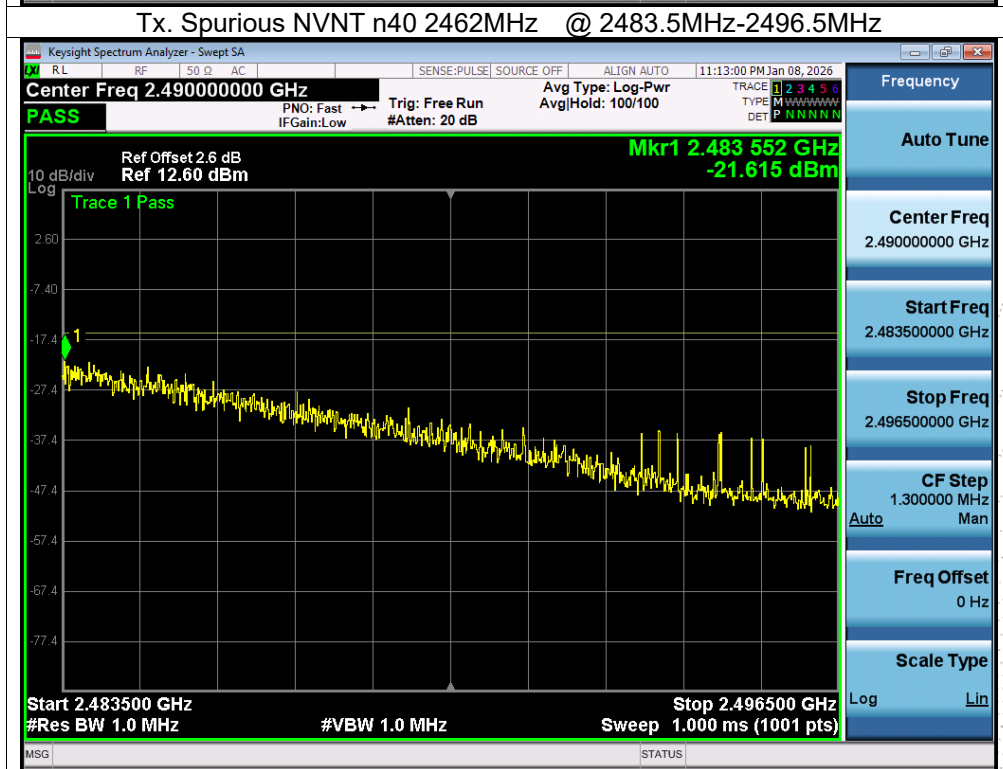
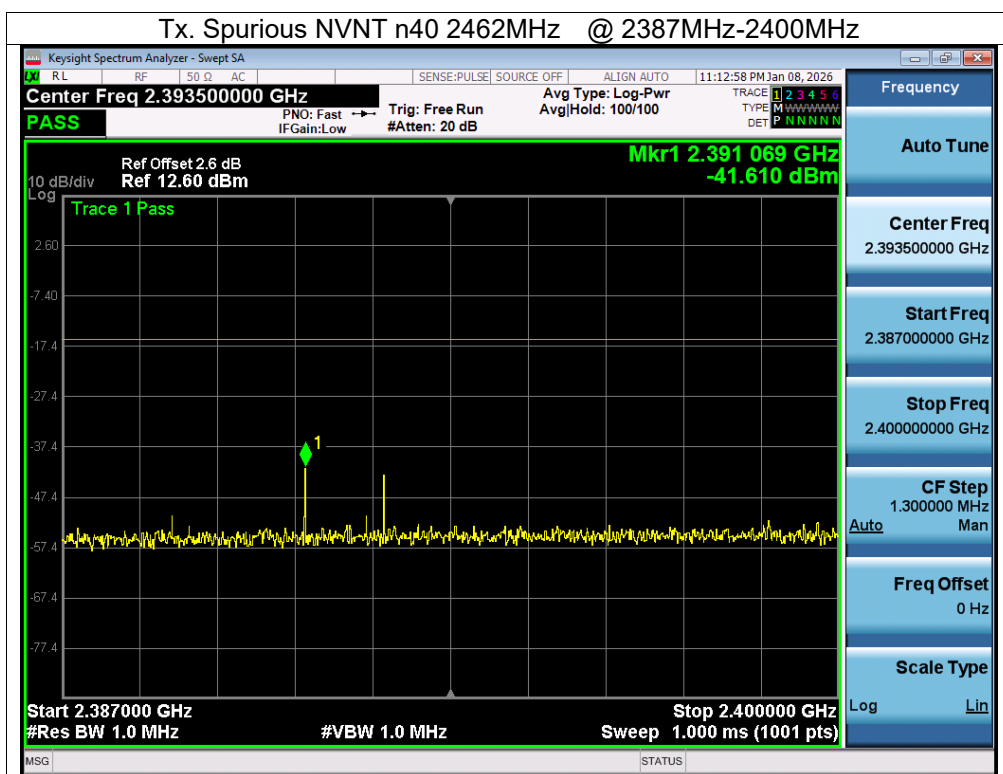


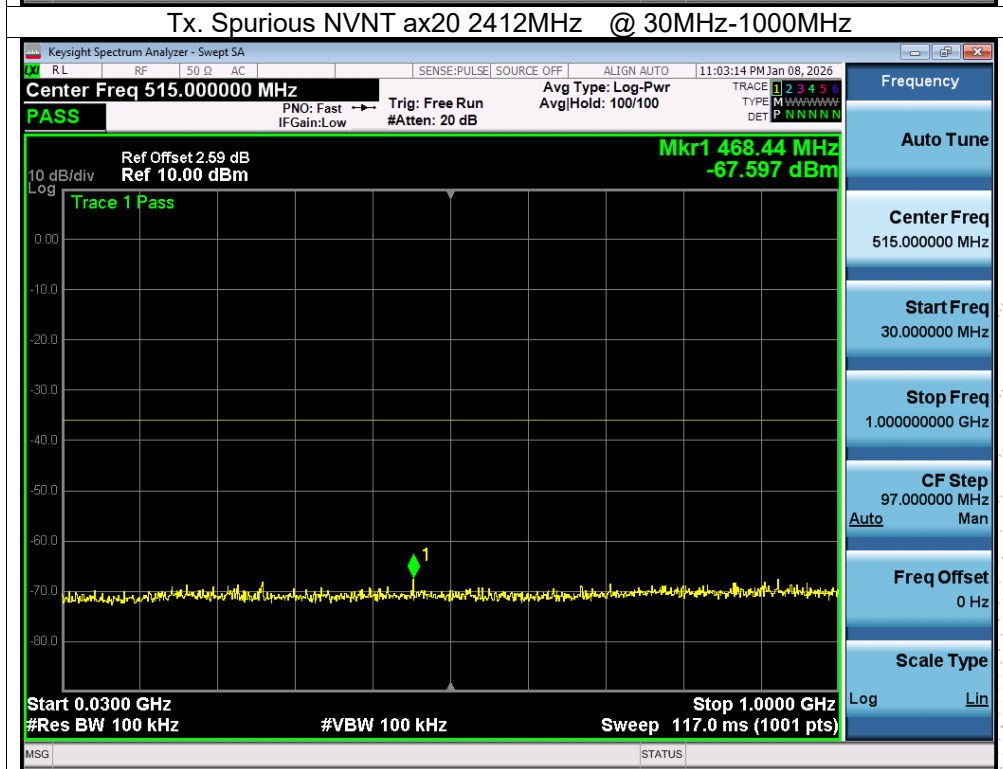
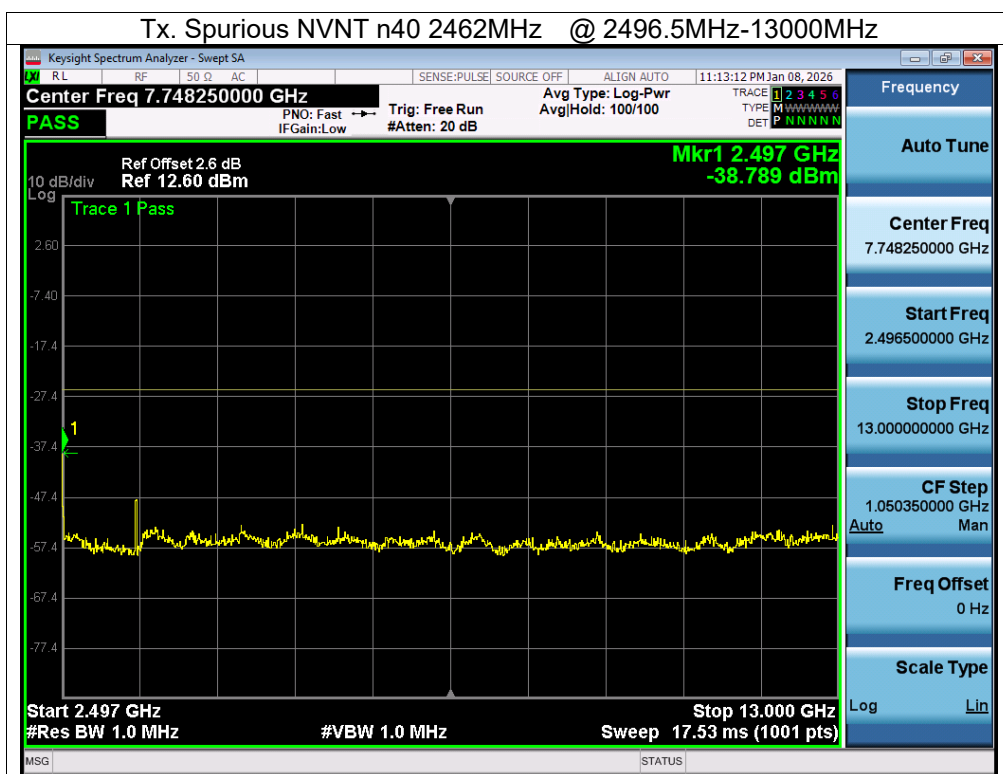


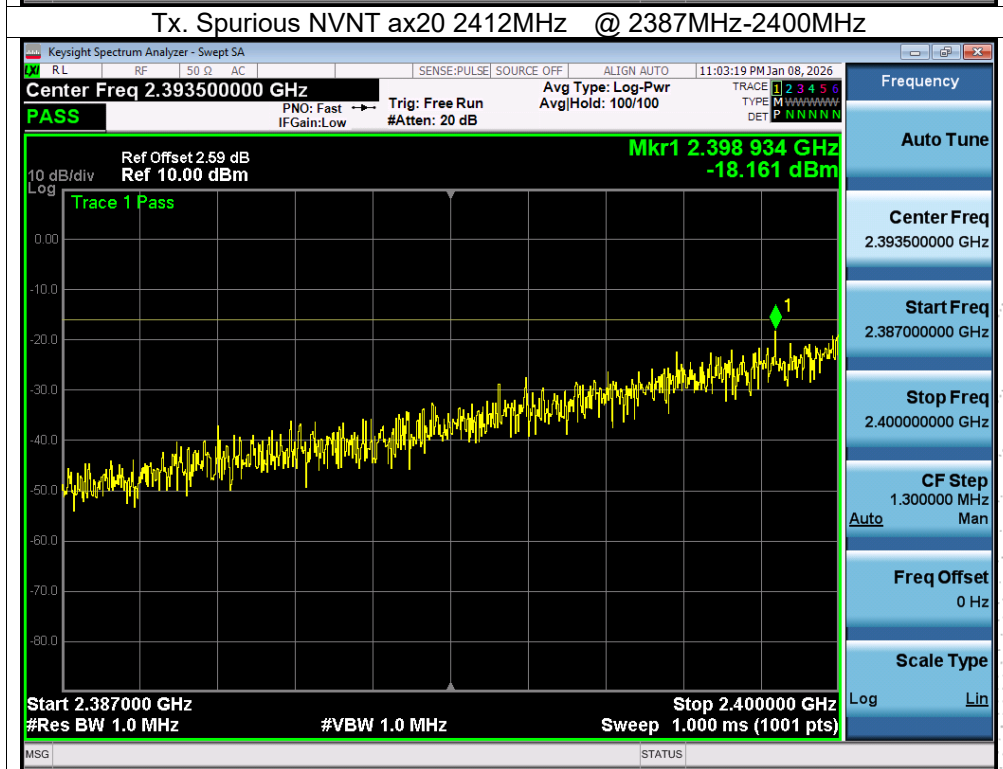
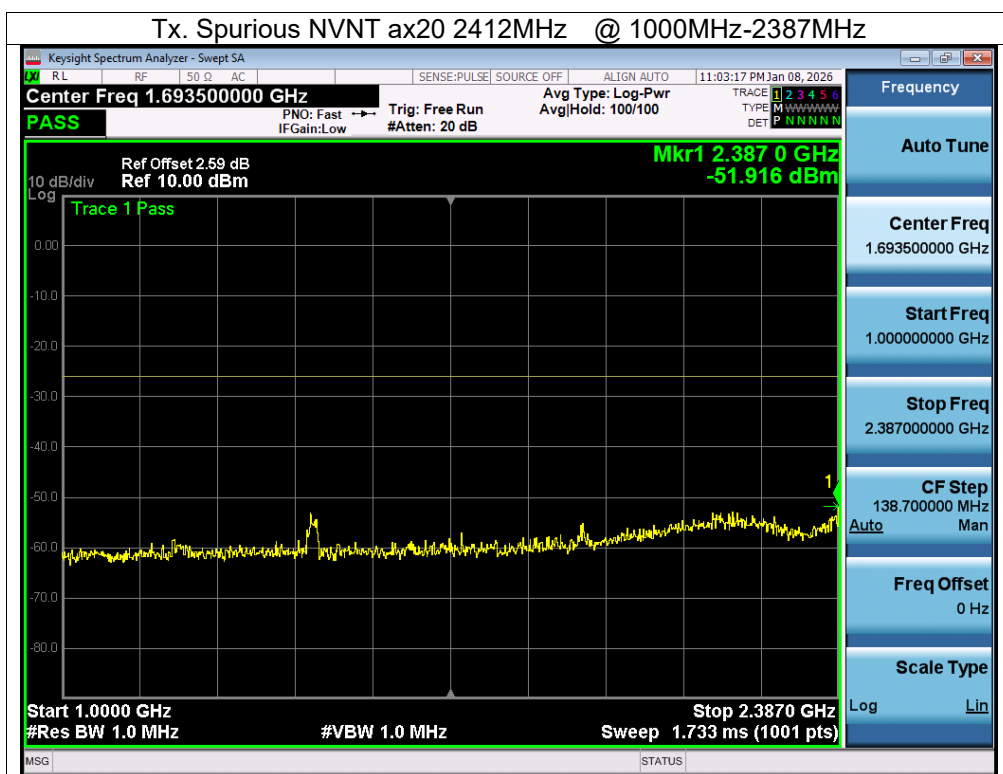


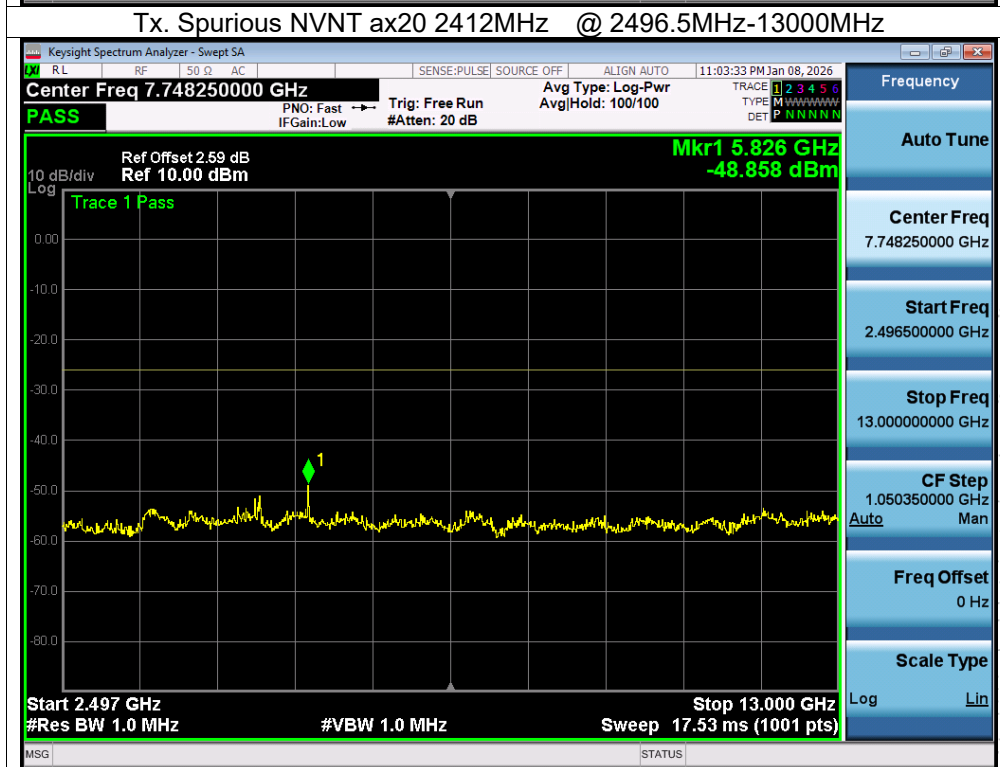
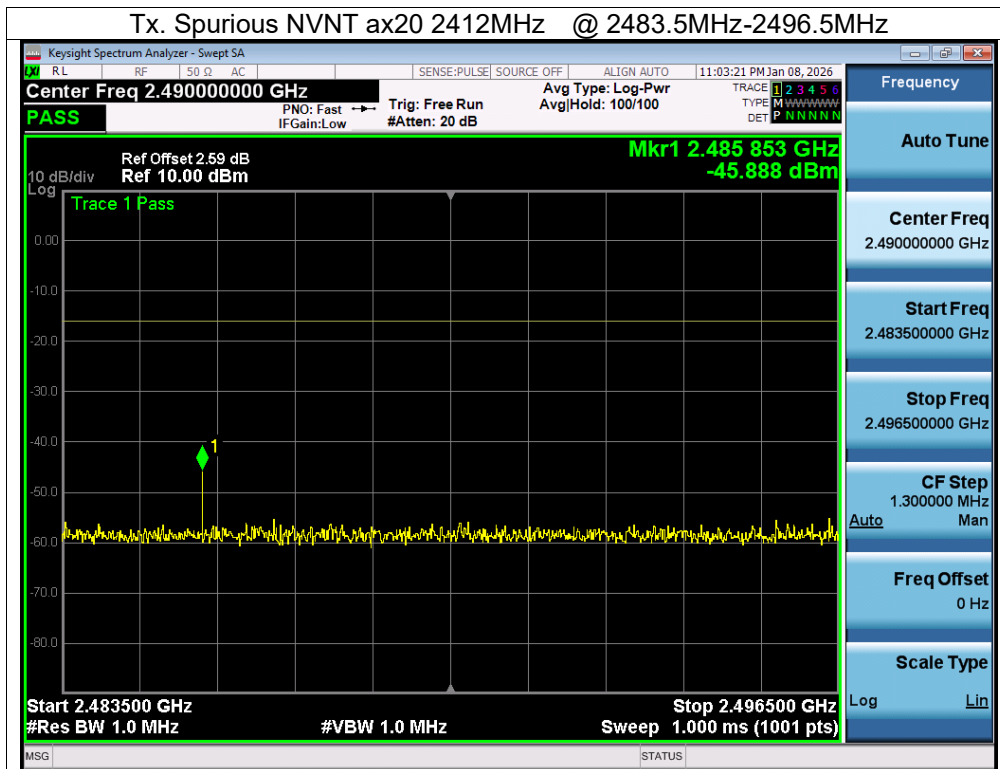


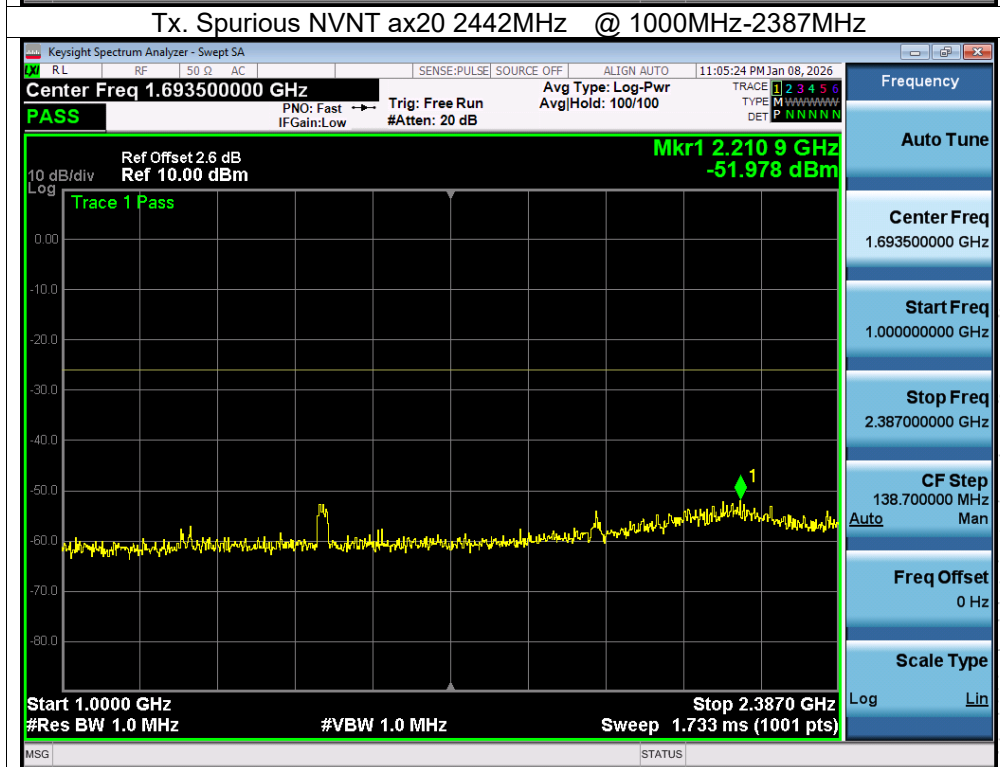
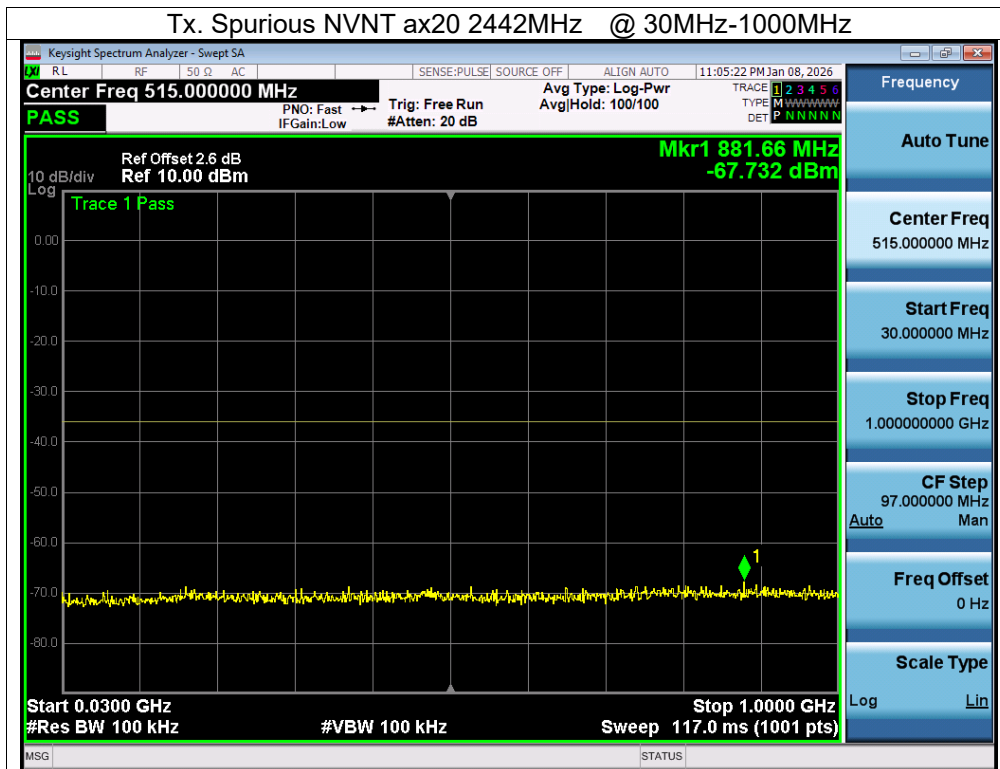


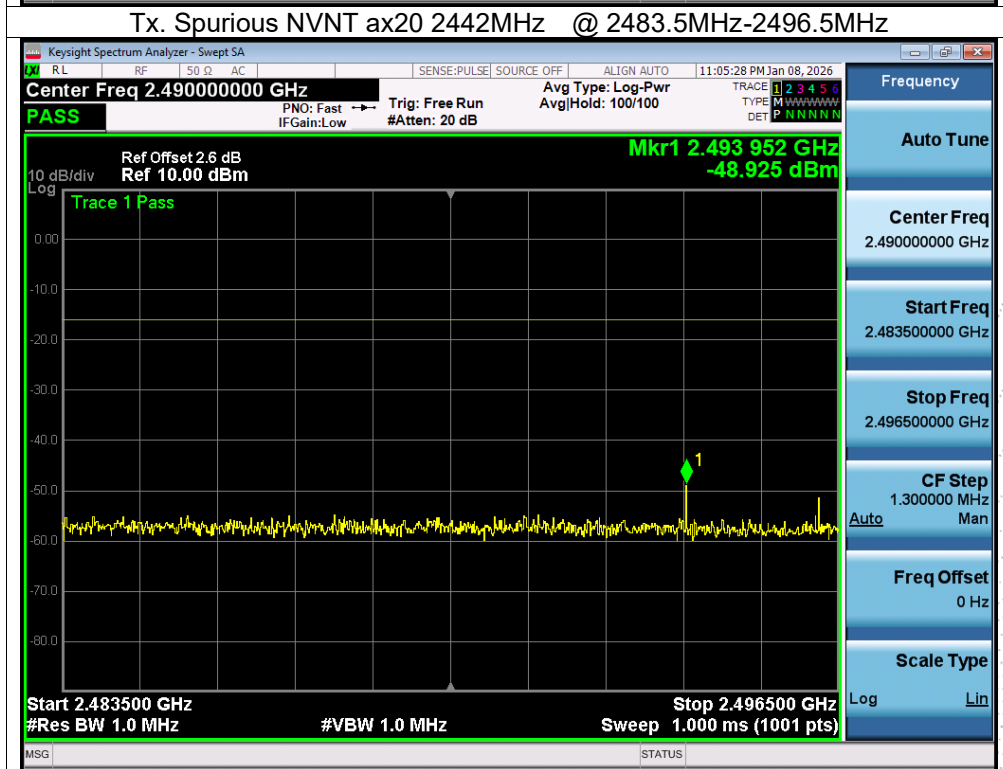
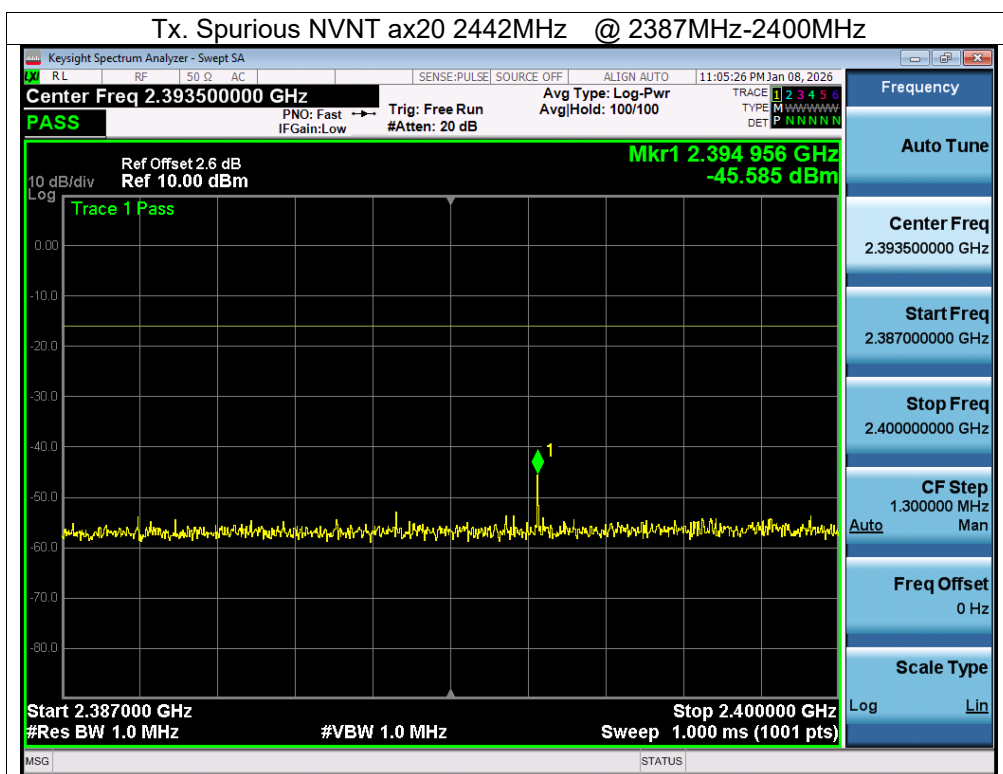


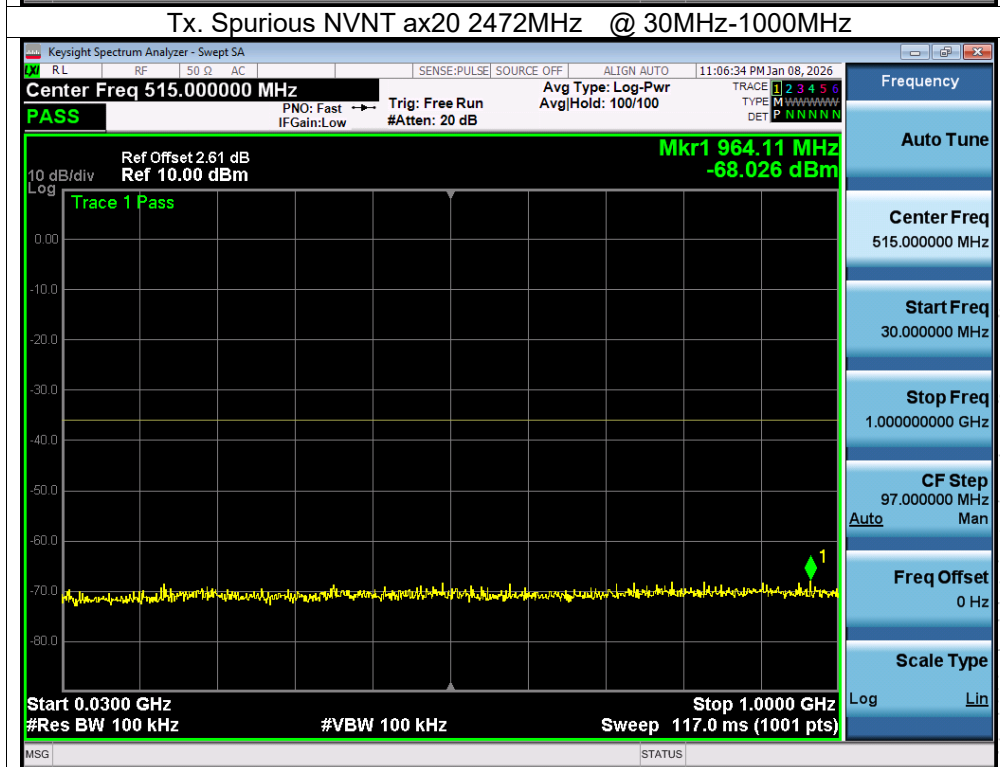
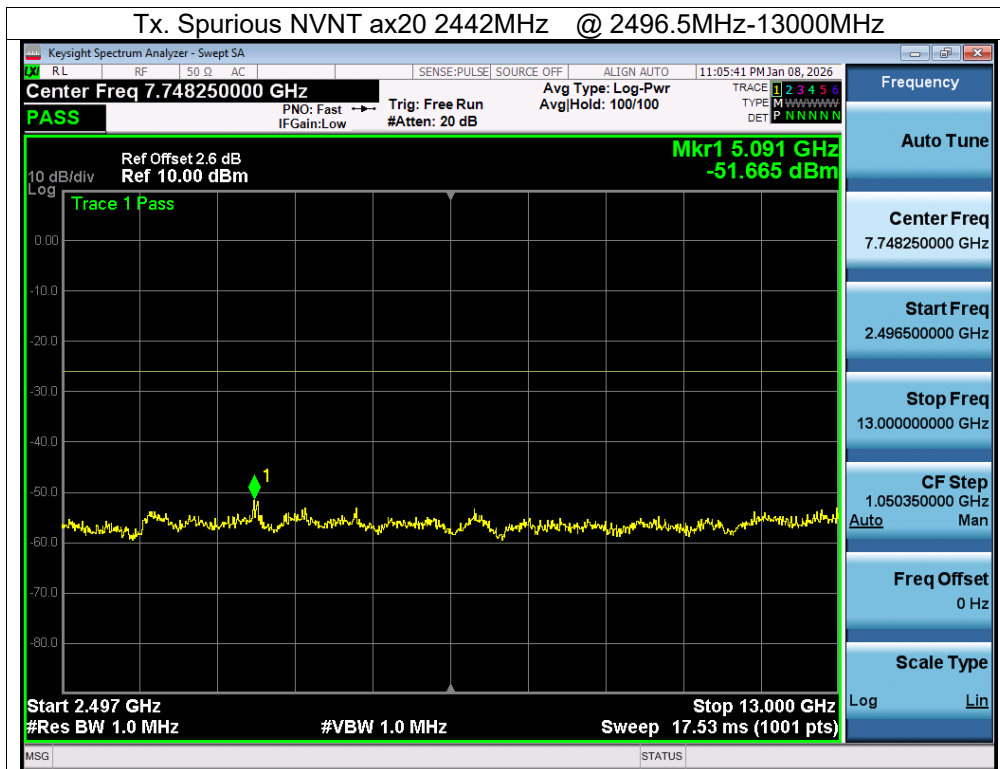


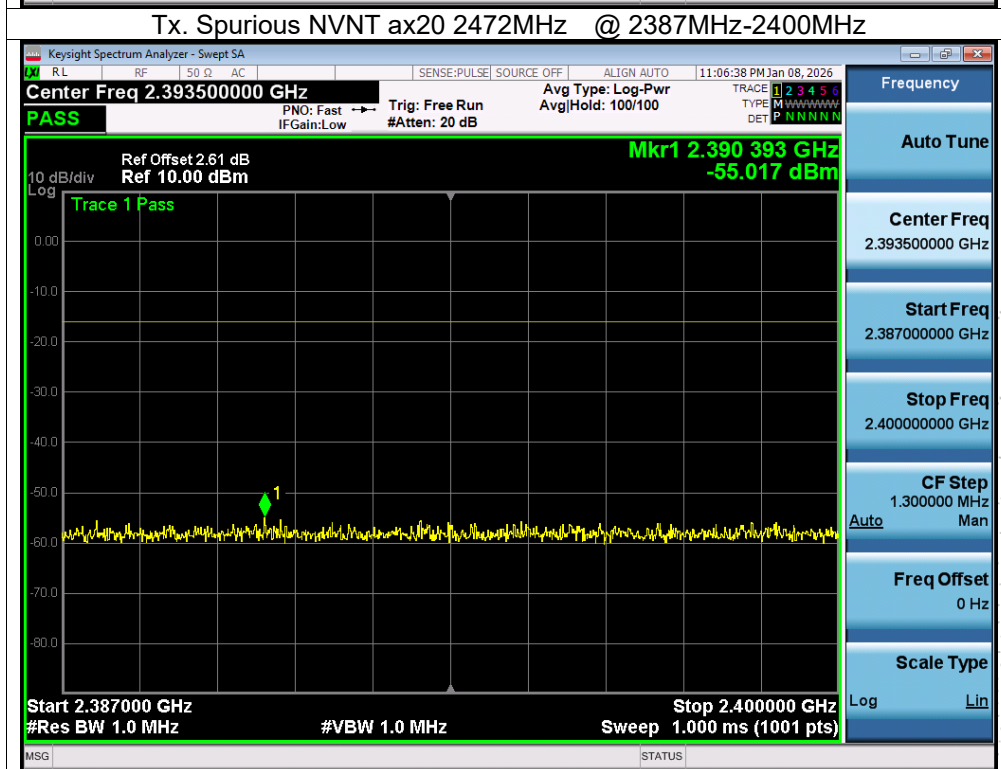
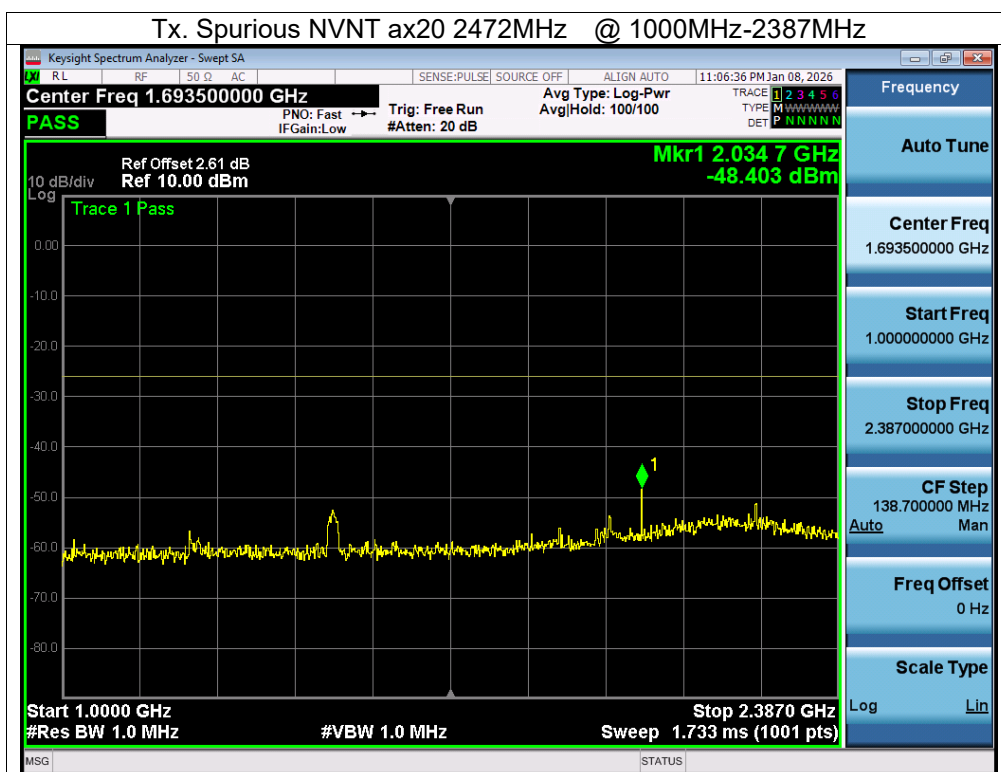


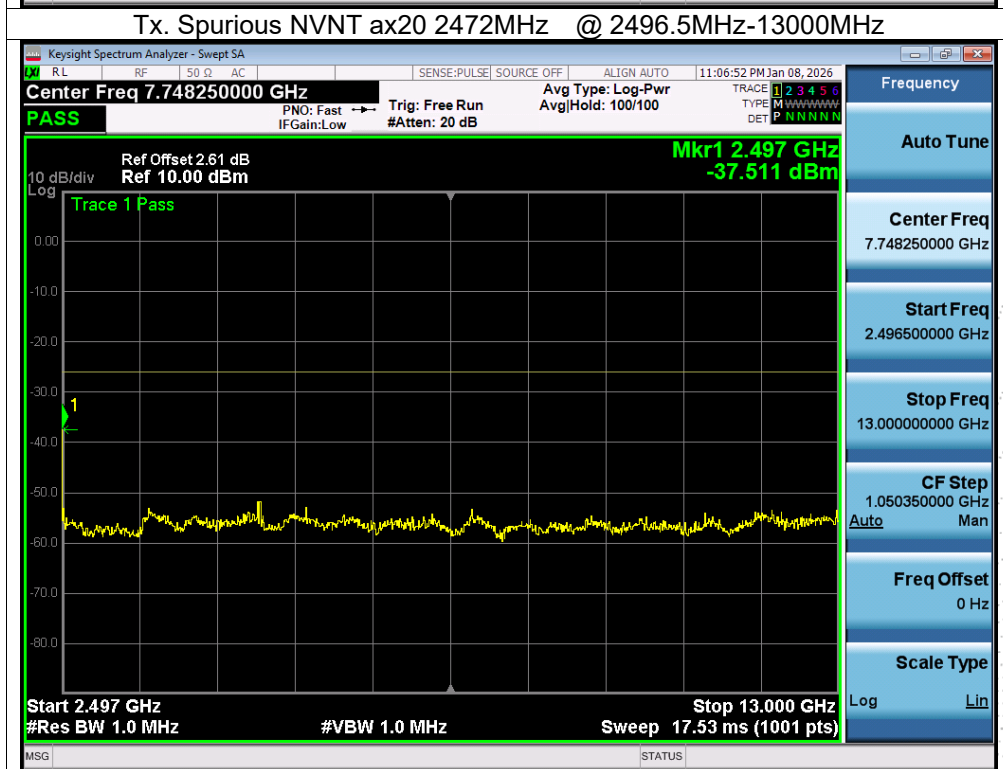
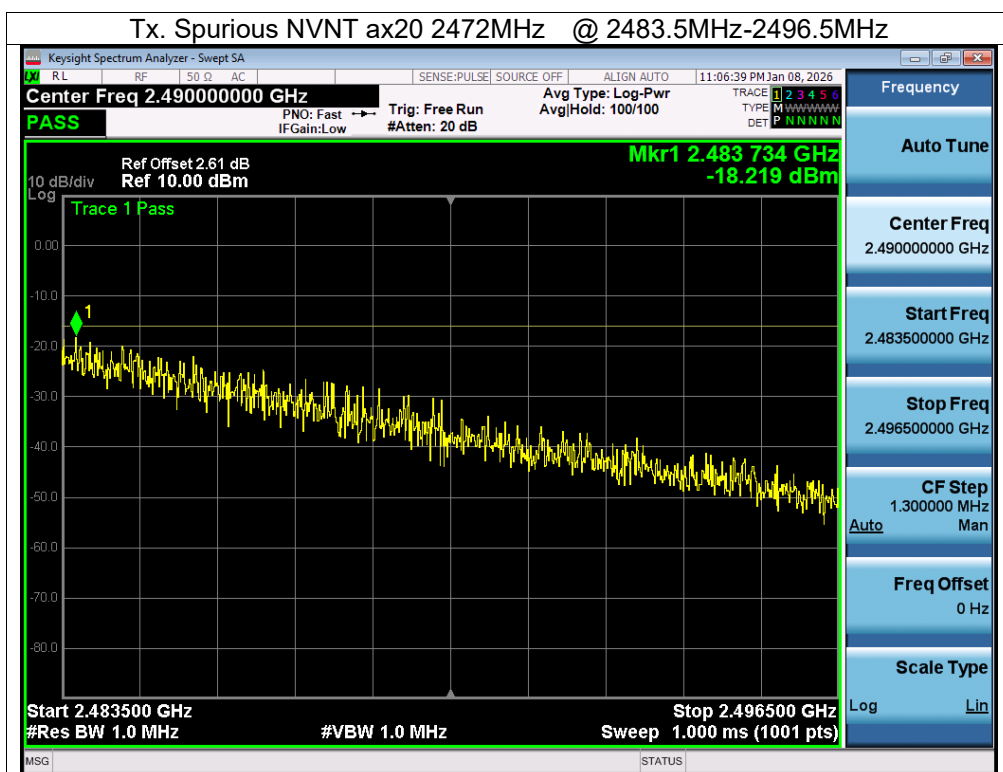


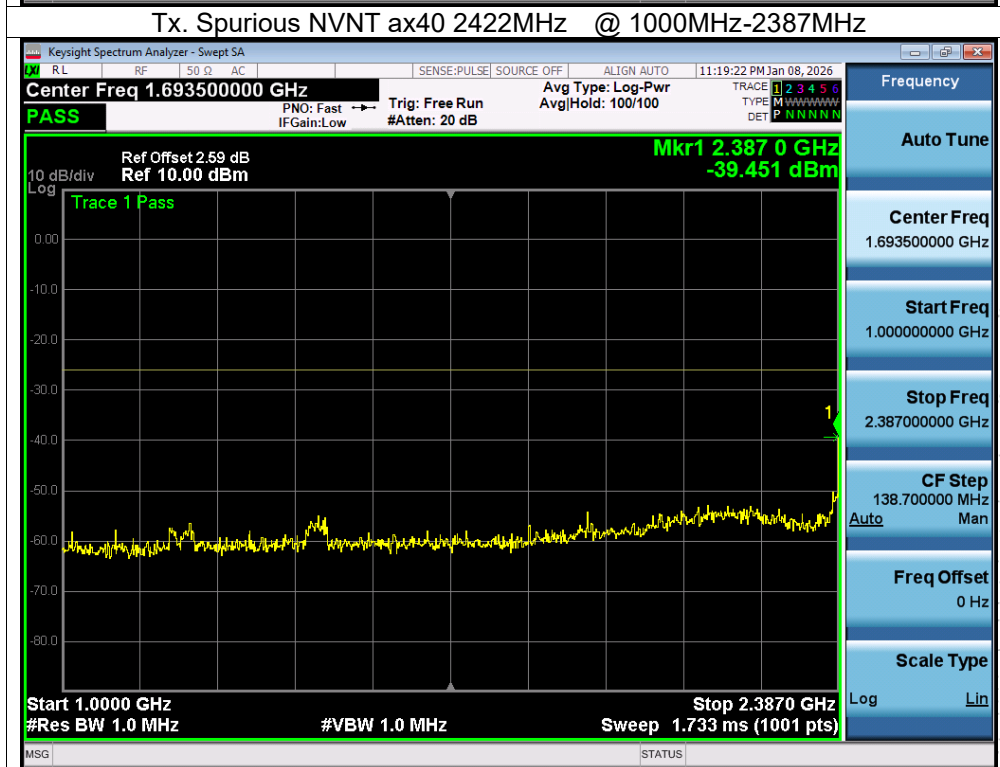
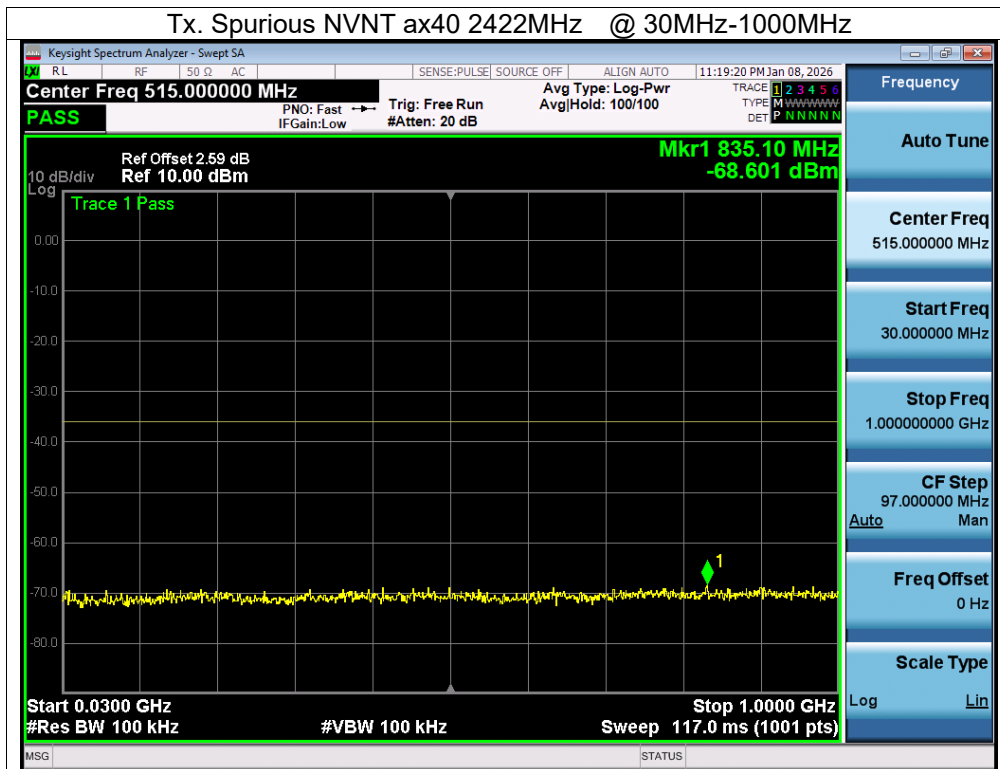


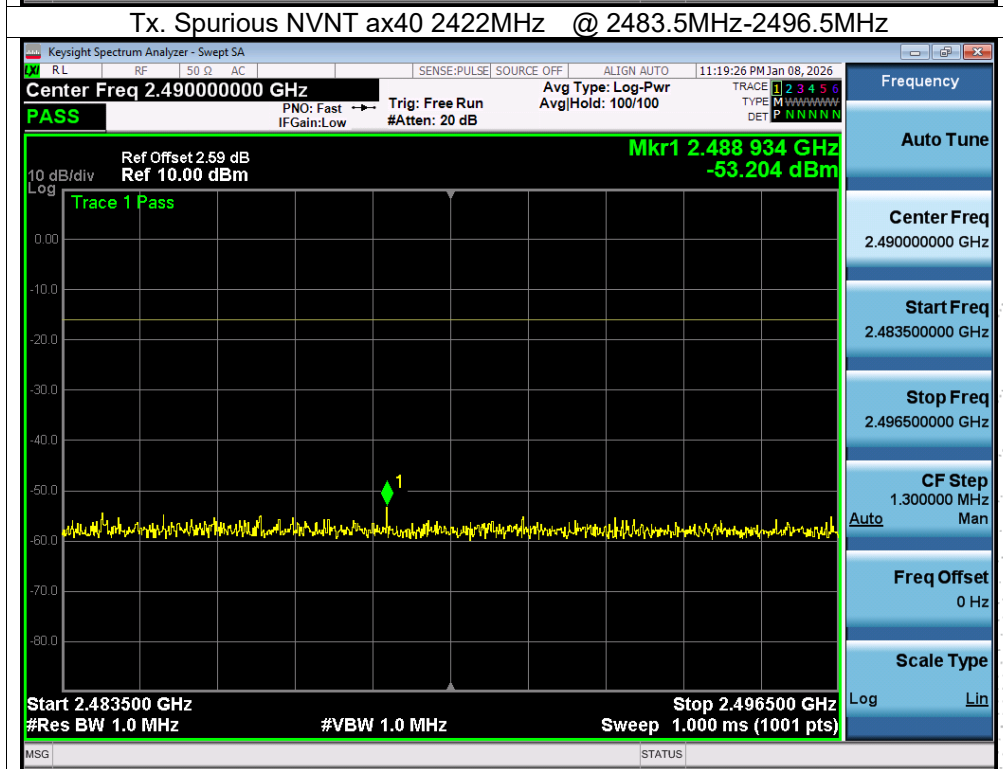
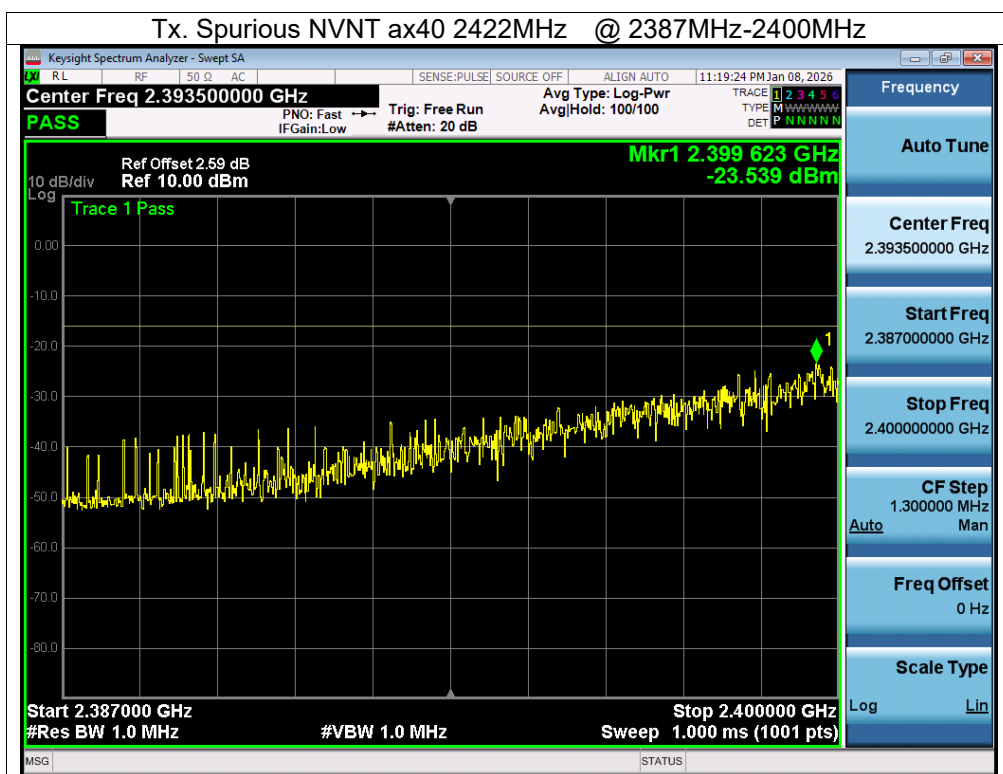


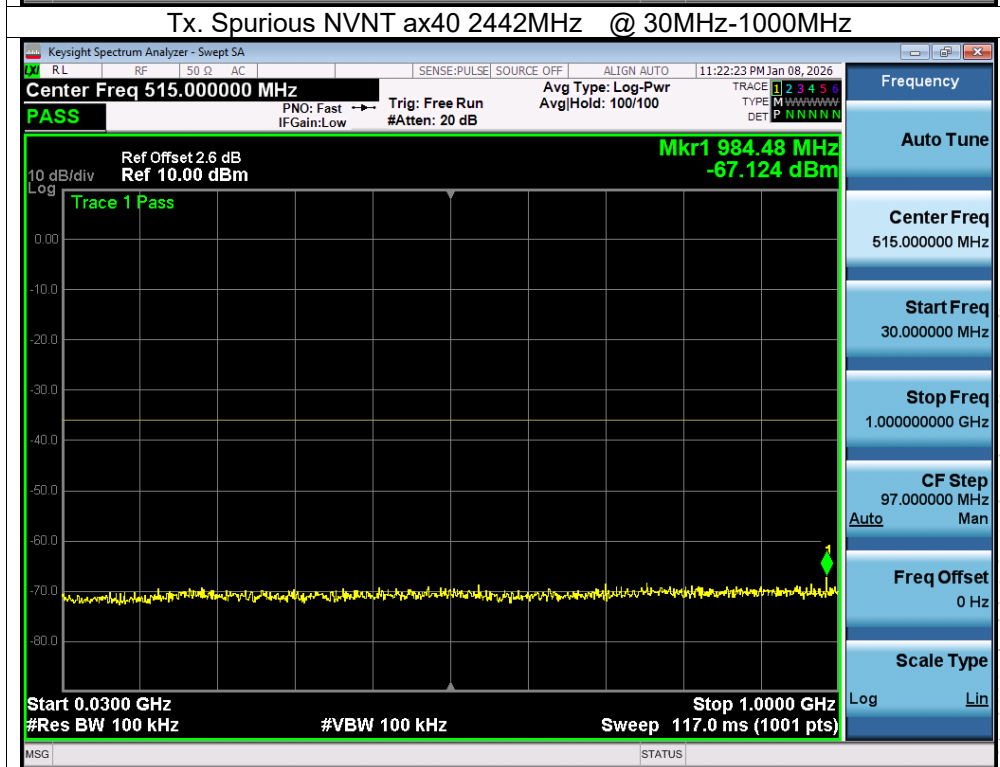
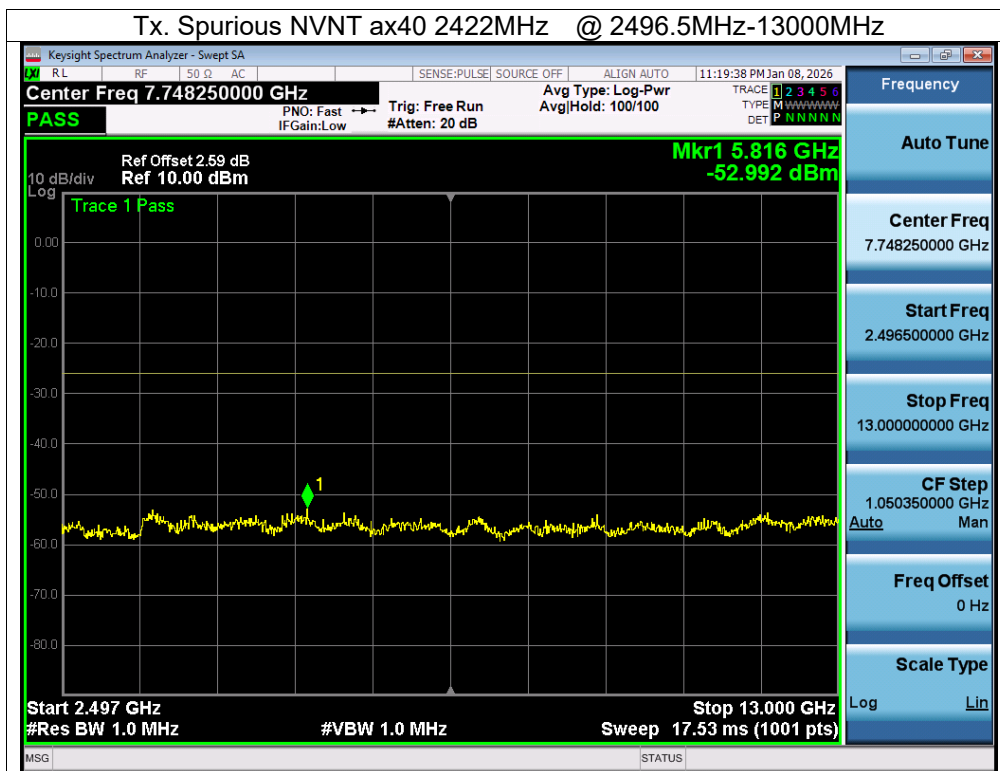


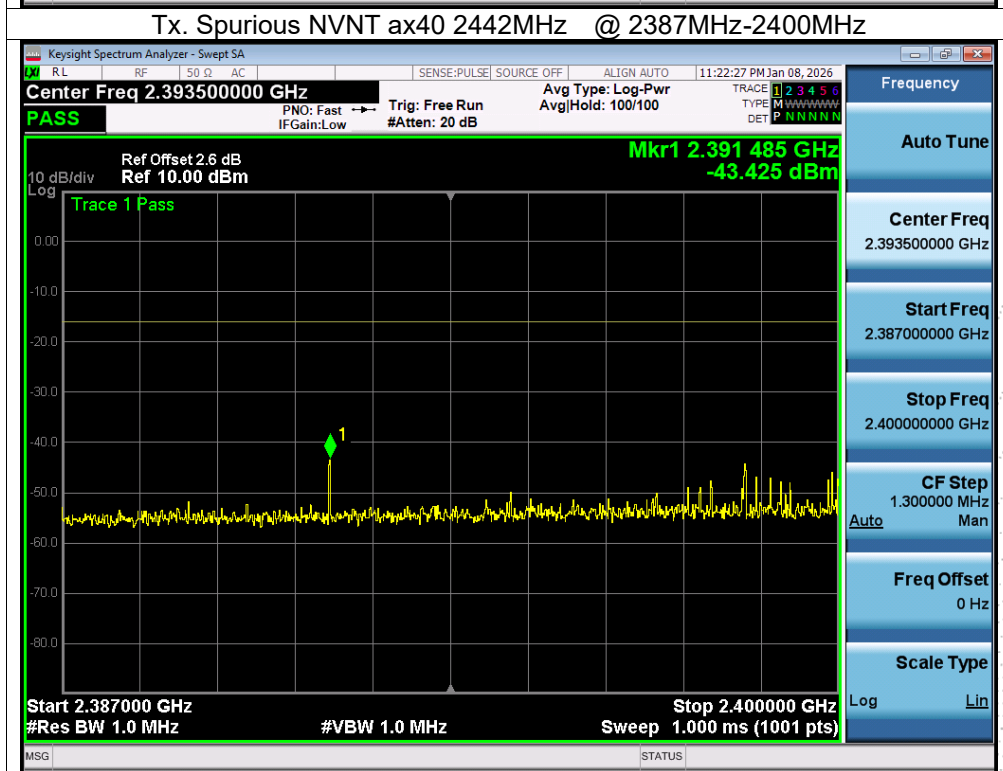
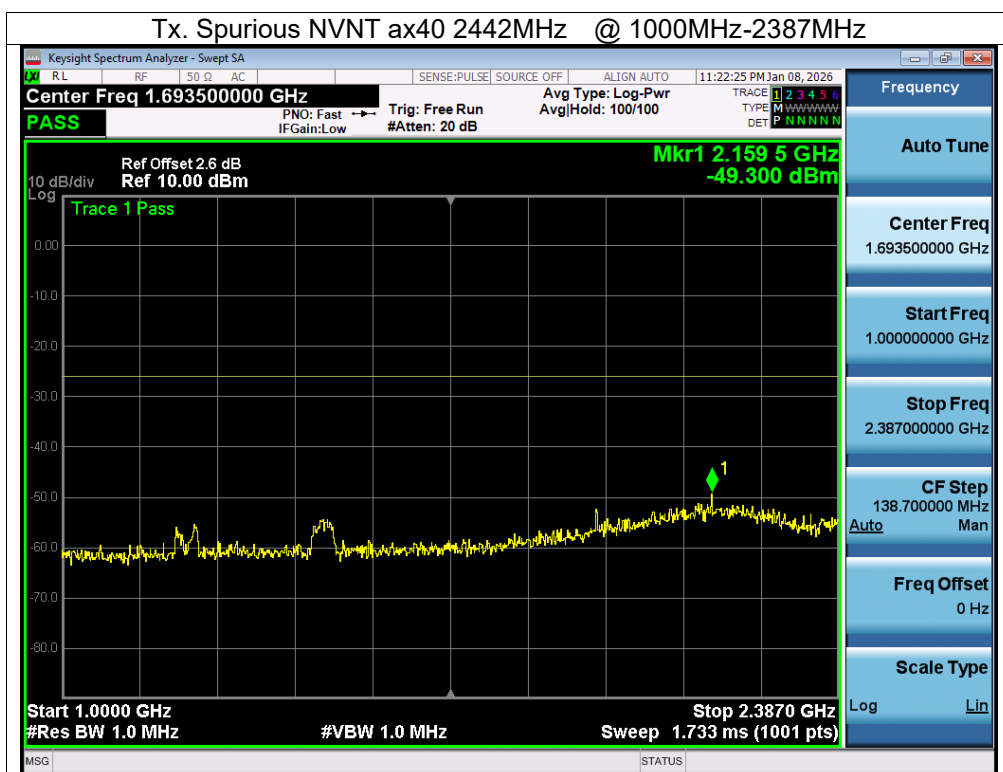


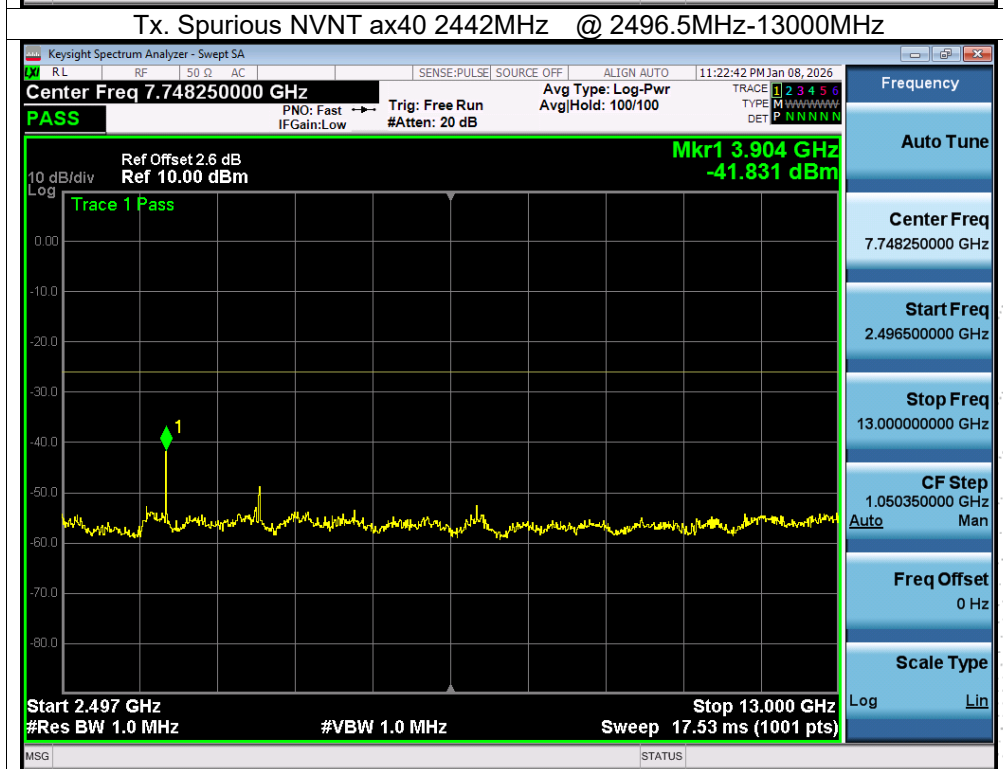
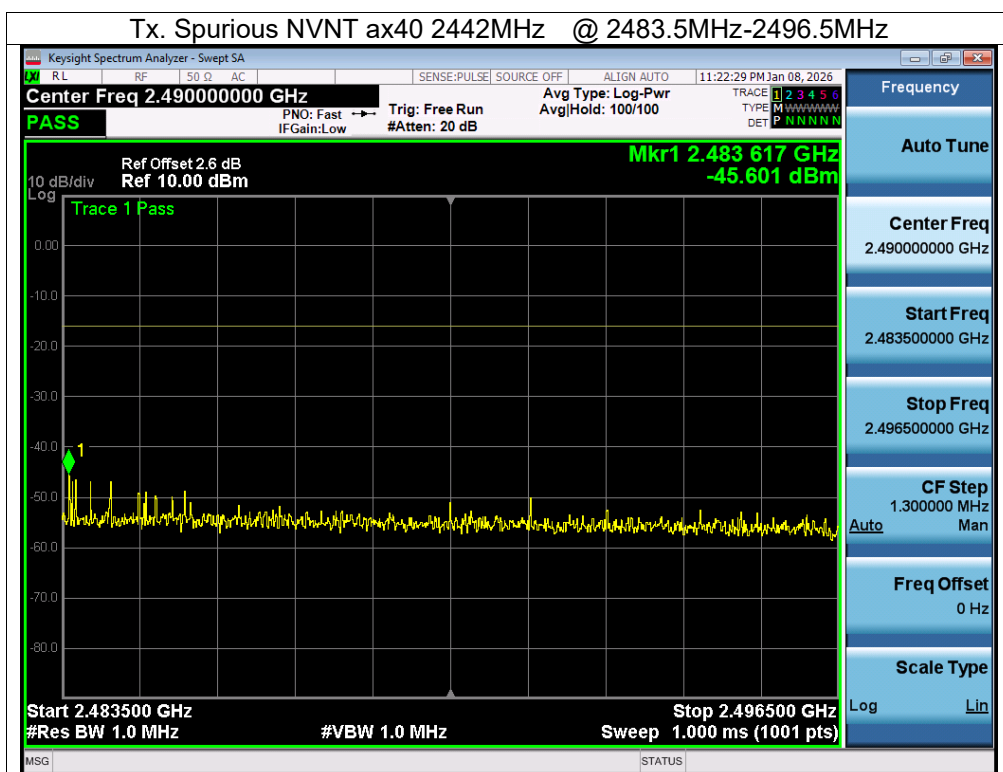


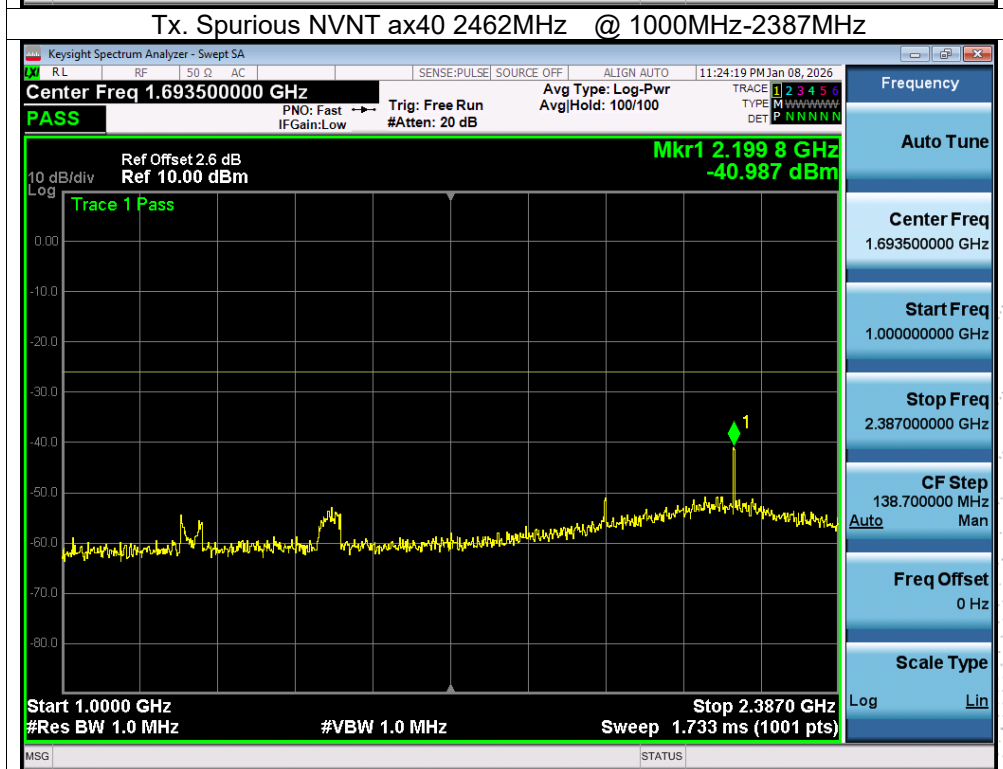
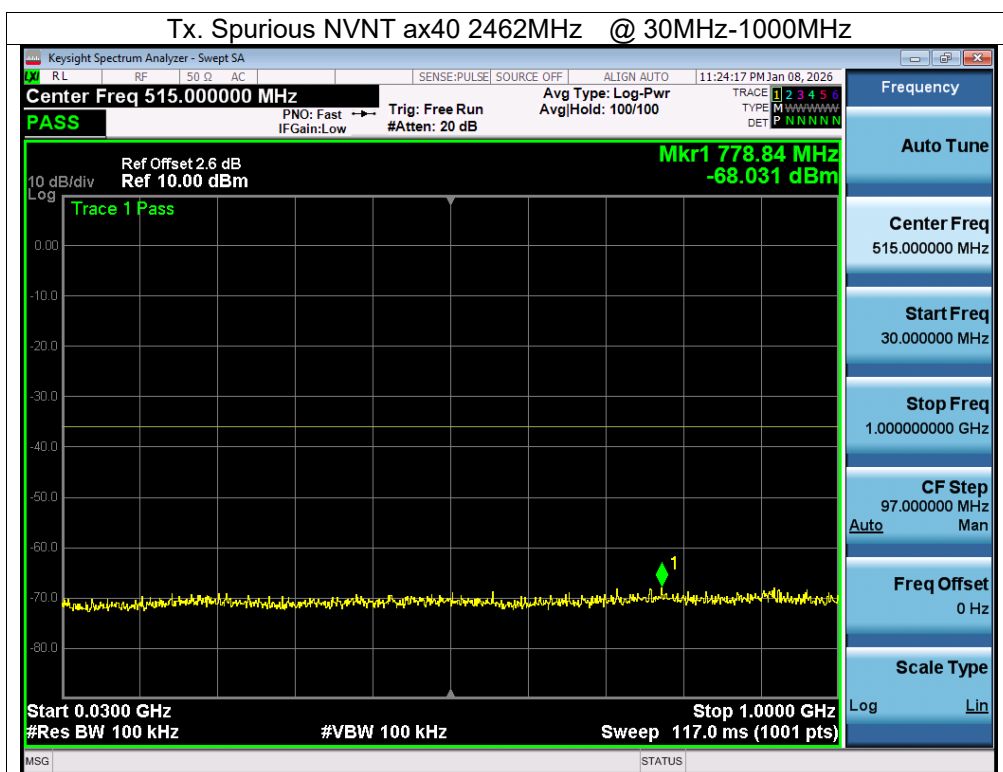


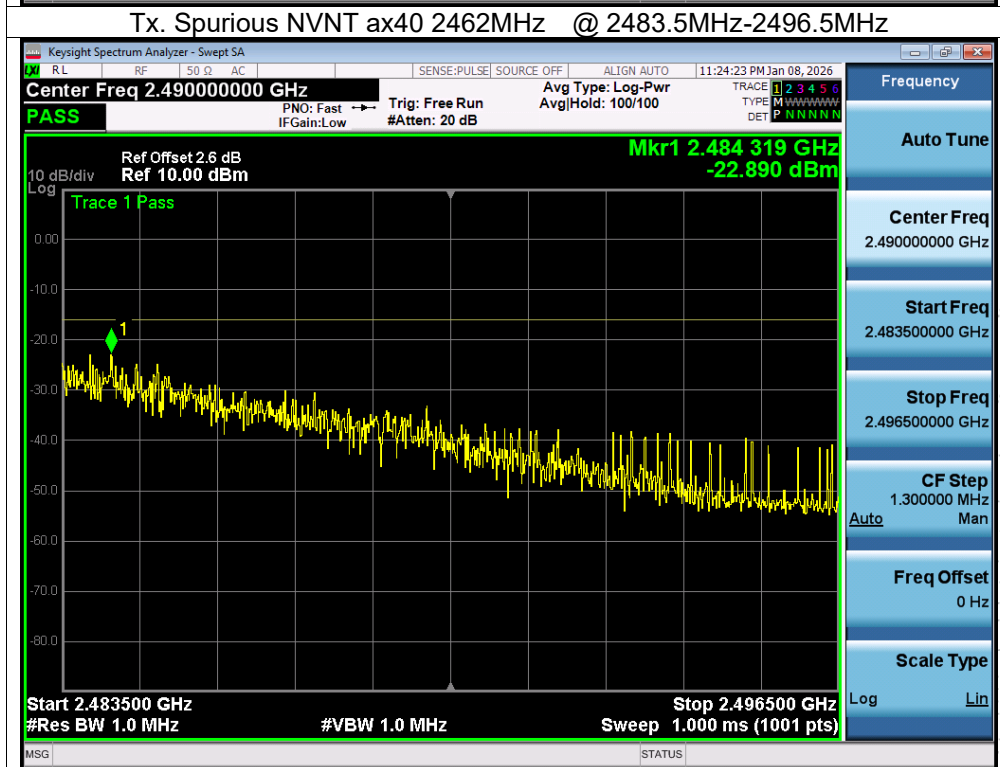
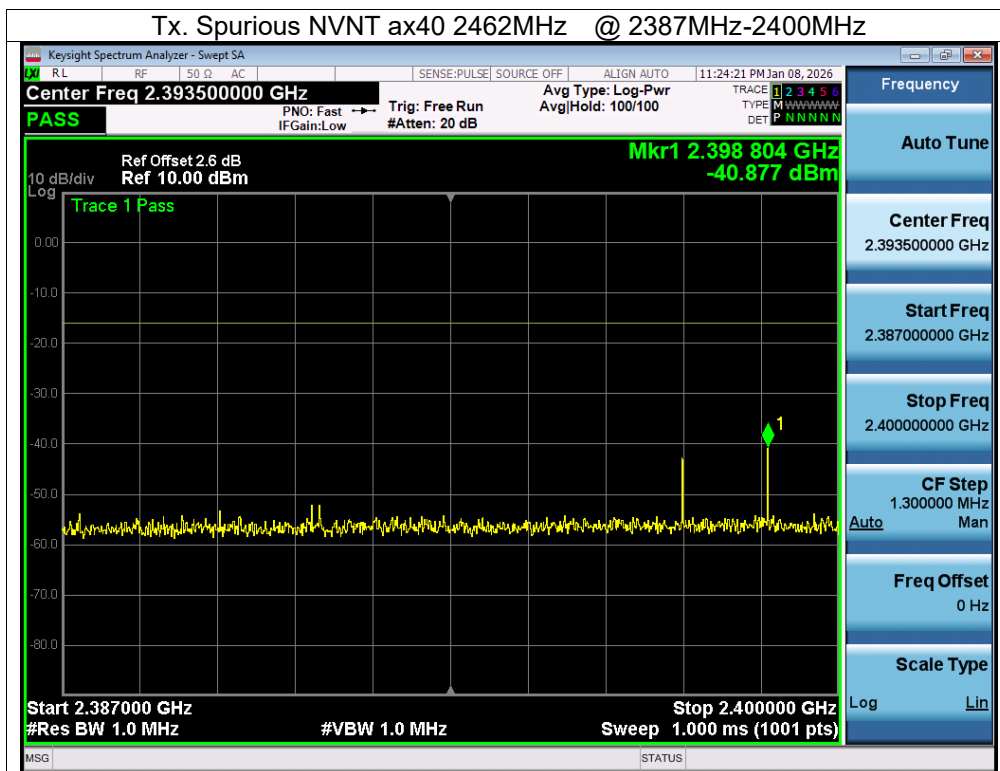


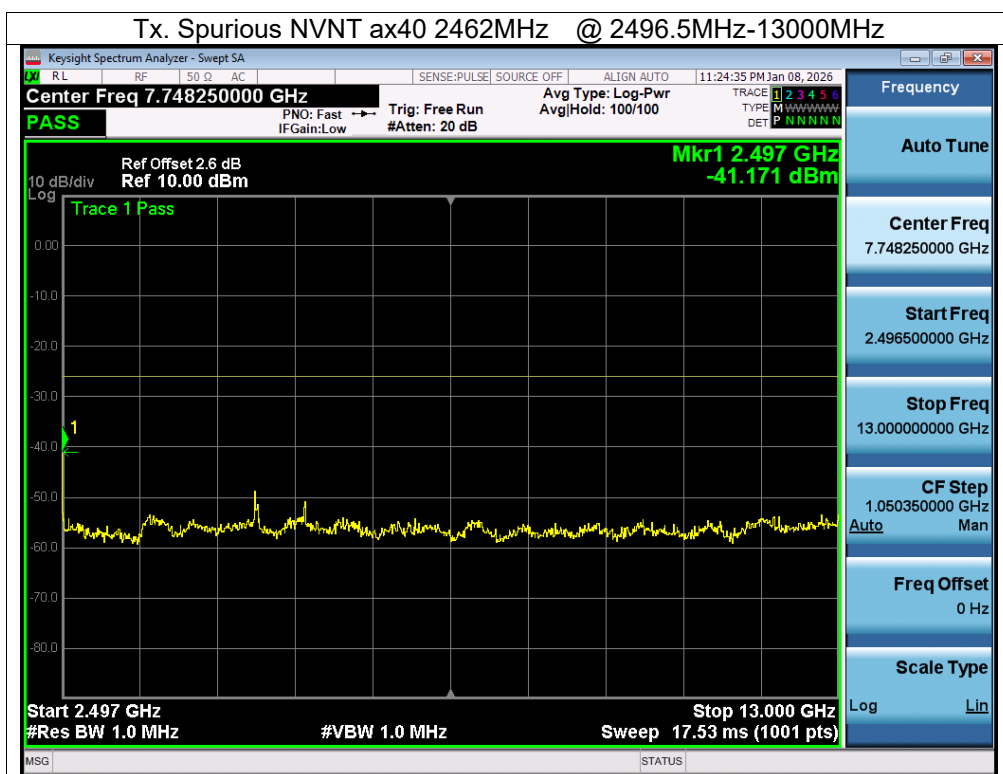








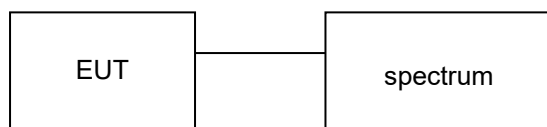




SHENZHEN

11. Imitation Of Collateral Emission Of Receiver Measurement

11.1 Block Diagram Of Test Setup



11.2 Limit

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

11.3 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

11.4 Test Procedure

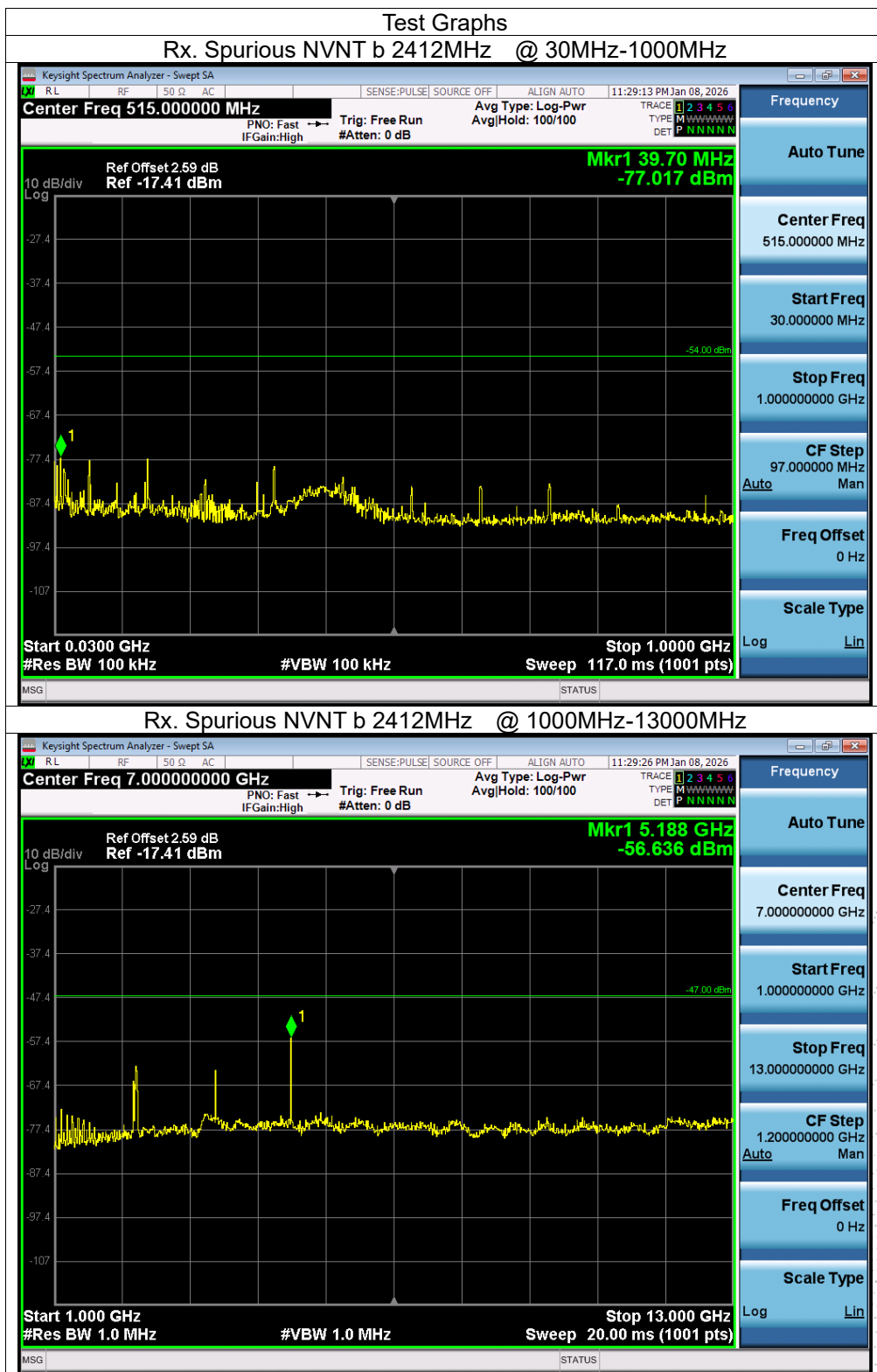
- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 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
- 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.

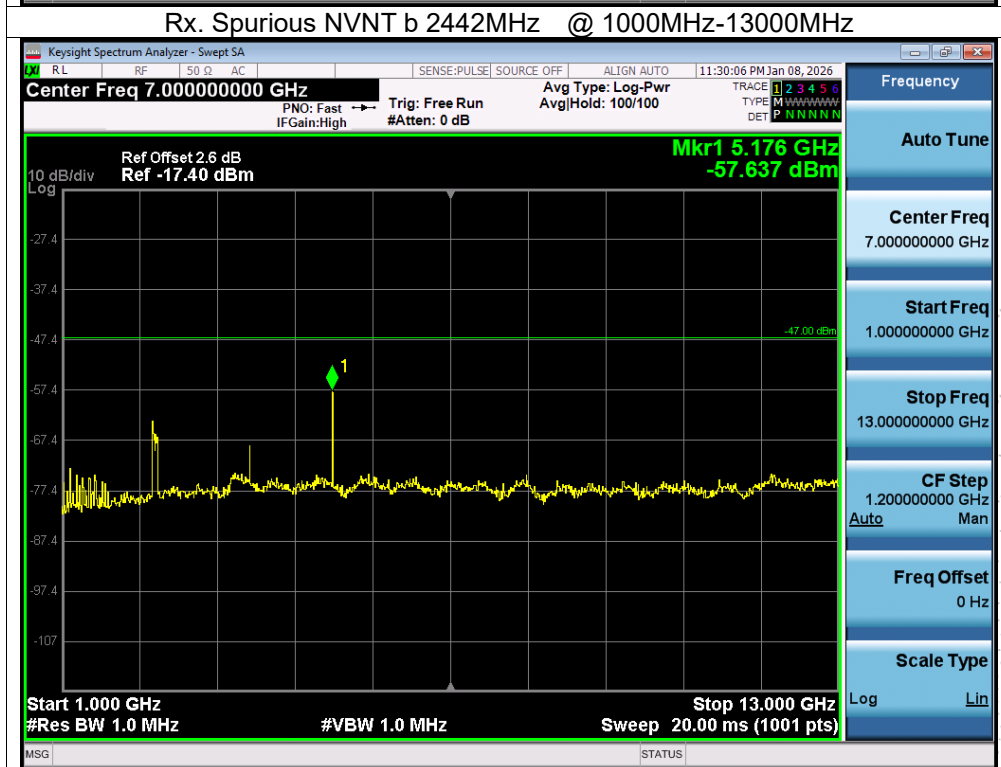
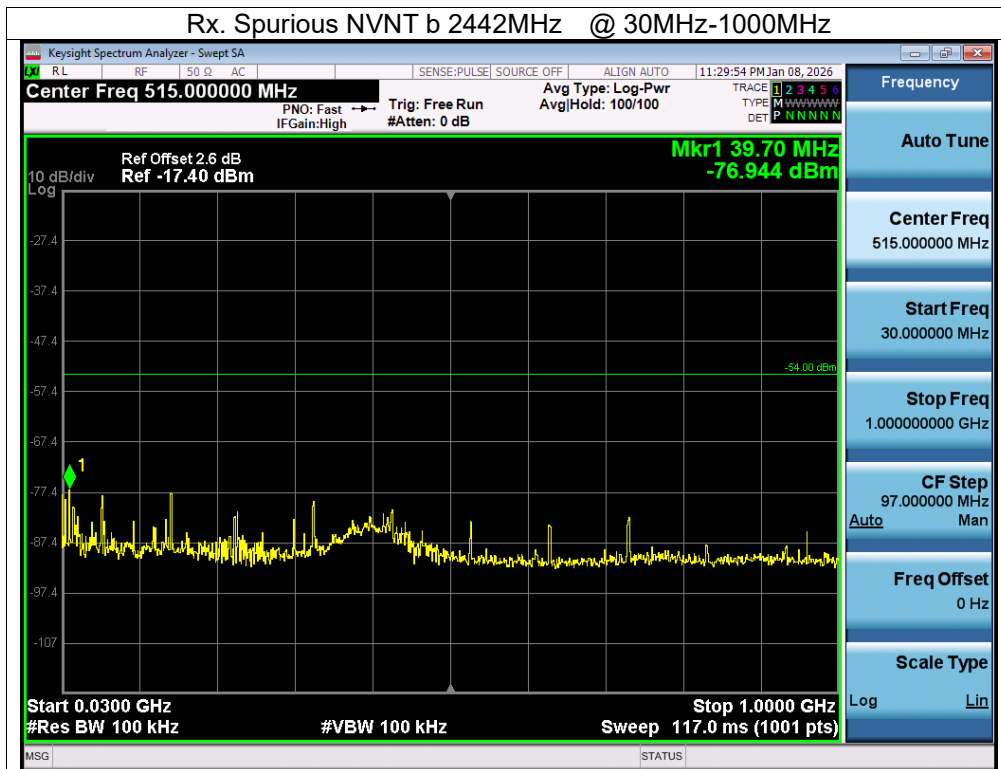
11.5 Test Result

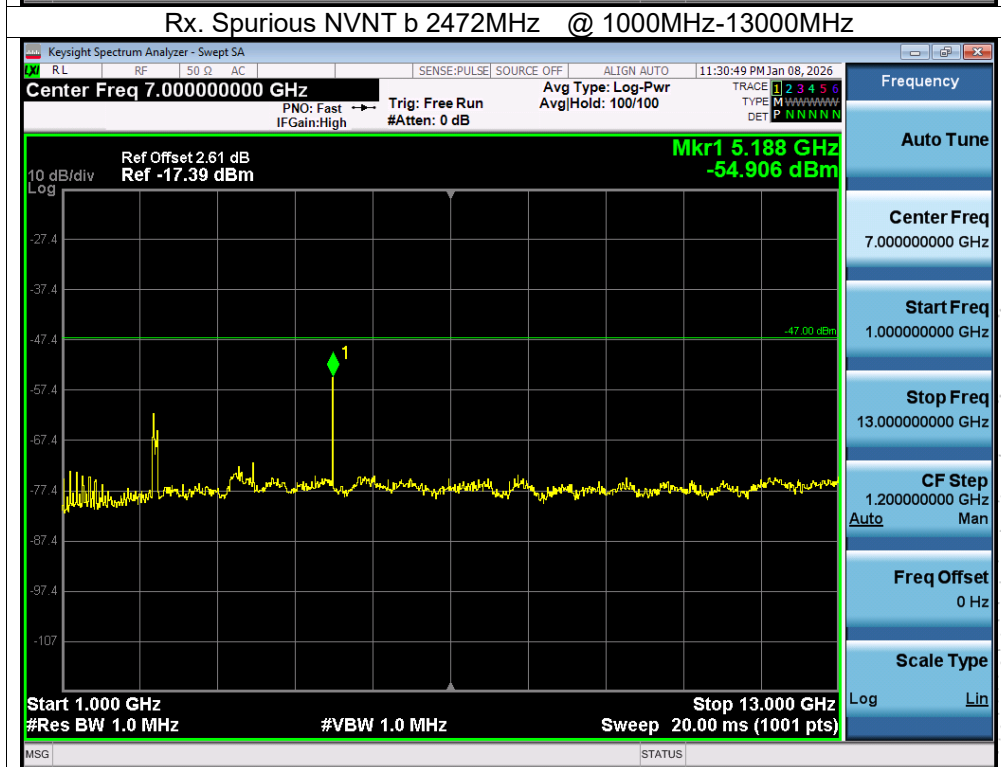
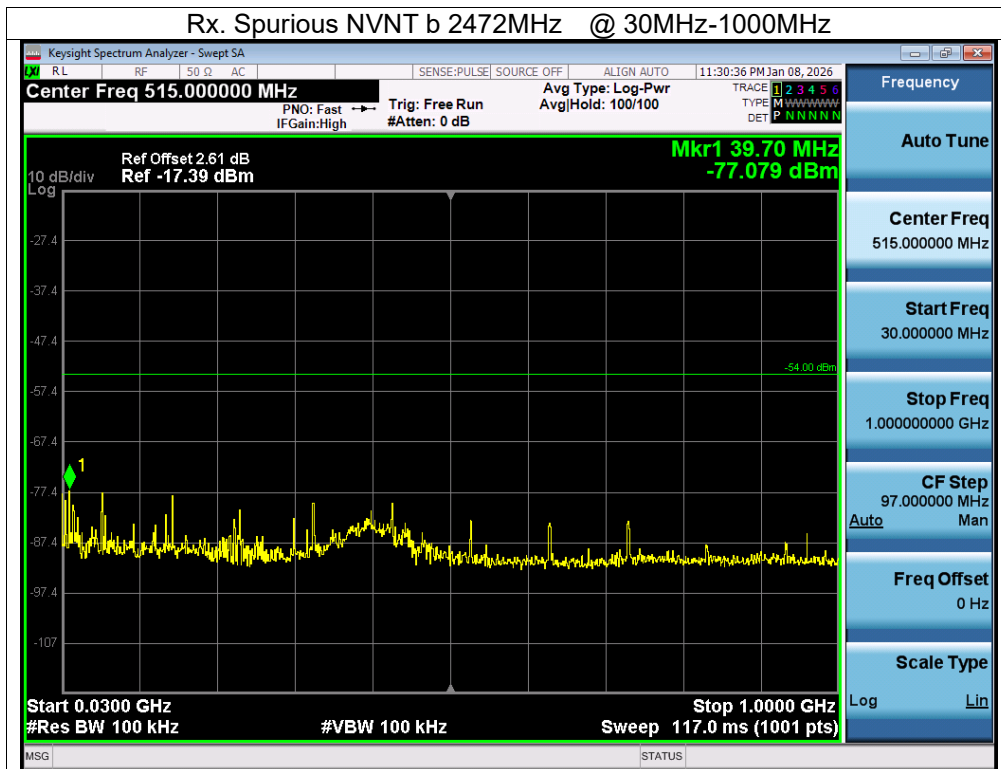
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Test Mode:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)		

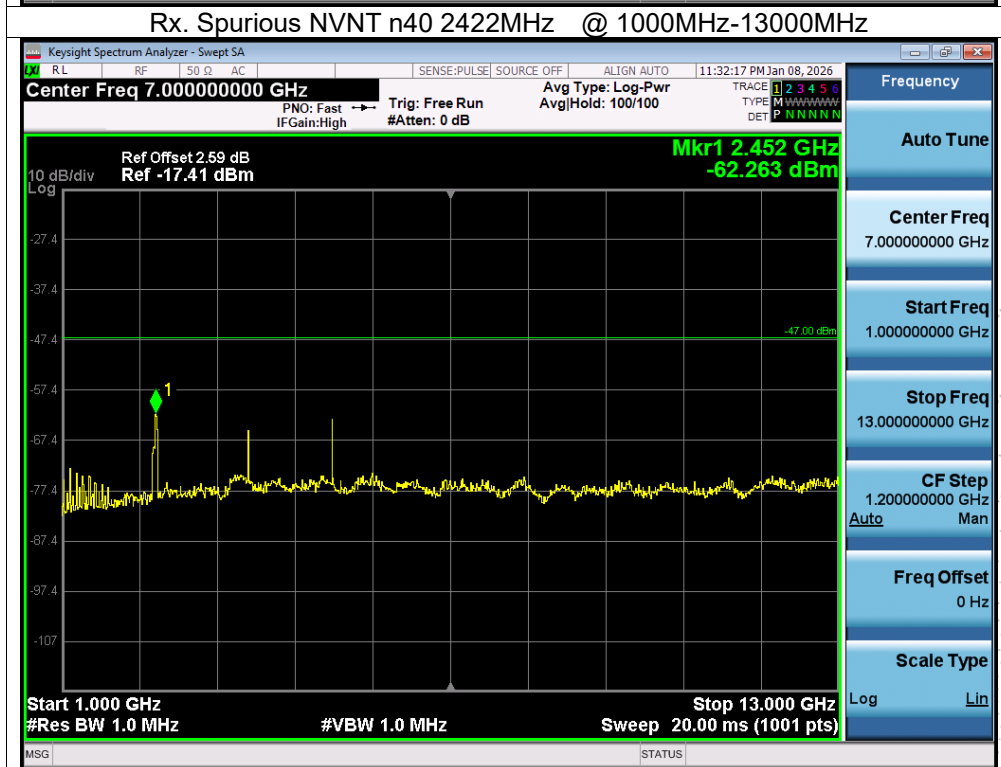
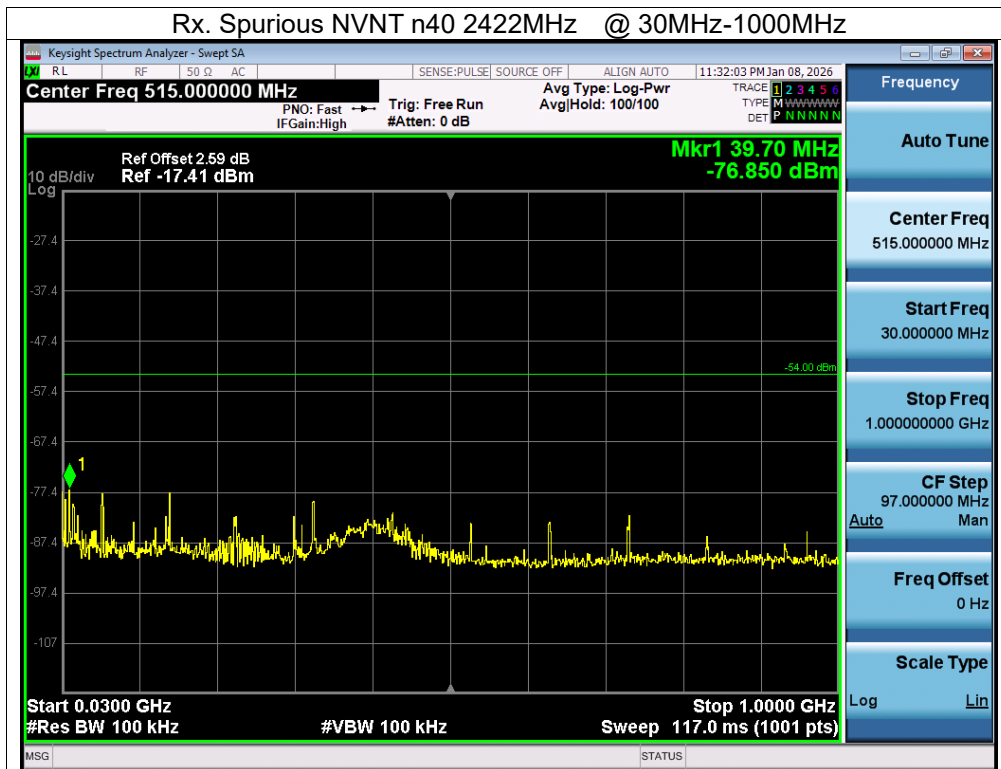
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
NVNT	b	2412	30-1000	39.7	-77.02	0.0199	4	Pass
NVNT	b	2412	1000-13000	5188	-56.64	2.1677	20	Pass
NVNT	b	2442	30-1000	39.7	-76.94	0.0202	4	Pass
NVNT	b	2442	1000-13000	5176	-57.64	1.7219	20	Pass
NVNT	b	2472	30-1000	39.7	-77.08	0.0196	4	Pass
NVNT	b	2472	1000-13000	5188	-54.91	3.2285	20	Pass
NVNT	n40	2422	30-1000	39.7	-76.85	0.0207	4	Pass
NVNT	n40	2422	1000-13000	2452	-62.26	0.5943	20	Pass
NVNT	n40	2442	30-1000	39.7	-76.83	0.0207	4	Pass
NVNT	n40	2442	1000-13000	5188	-54.56	3.4995	20	Pass
NVNT	n40	2462	30-1000	39.7	-77.05	0.0197	4	Pass
NVNT	n40	2462	1000-13000	5188	-57.38	1.8281	20	Pass

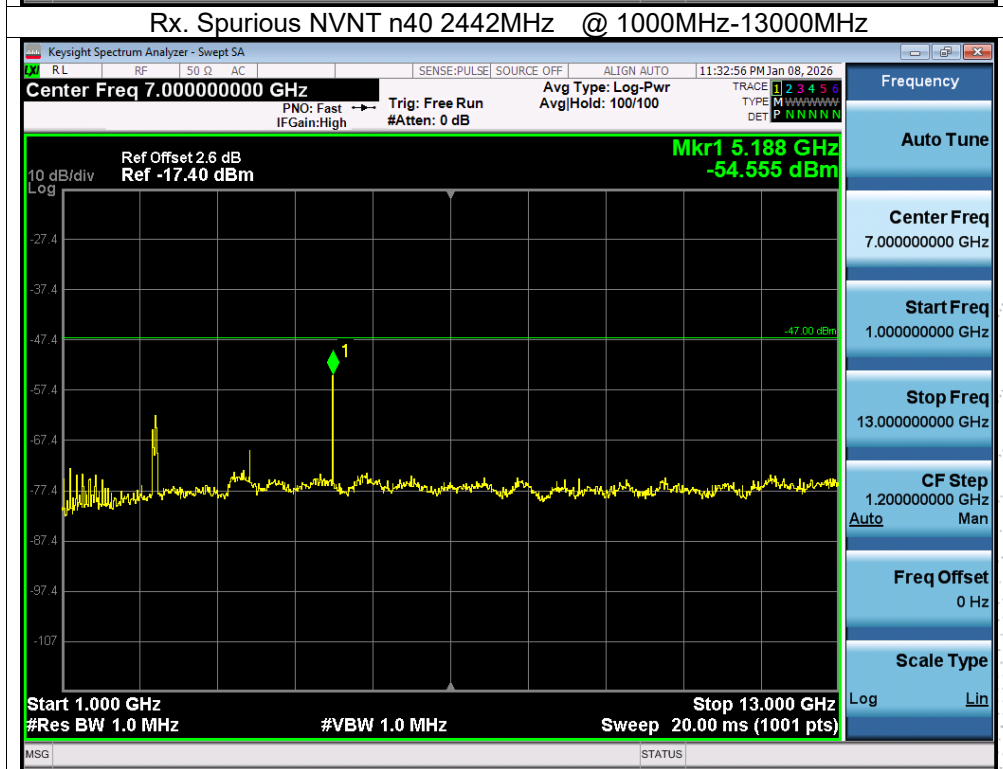
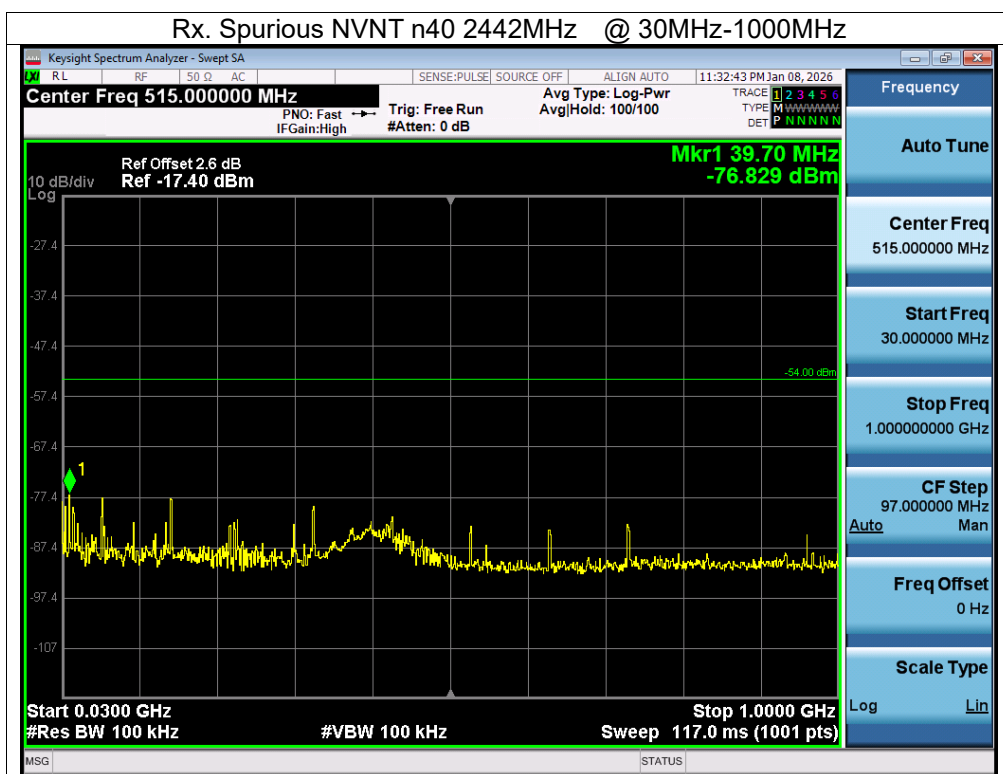
BCTC
 BCTC
 PPR
 Report

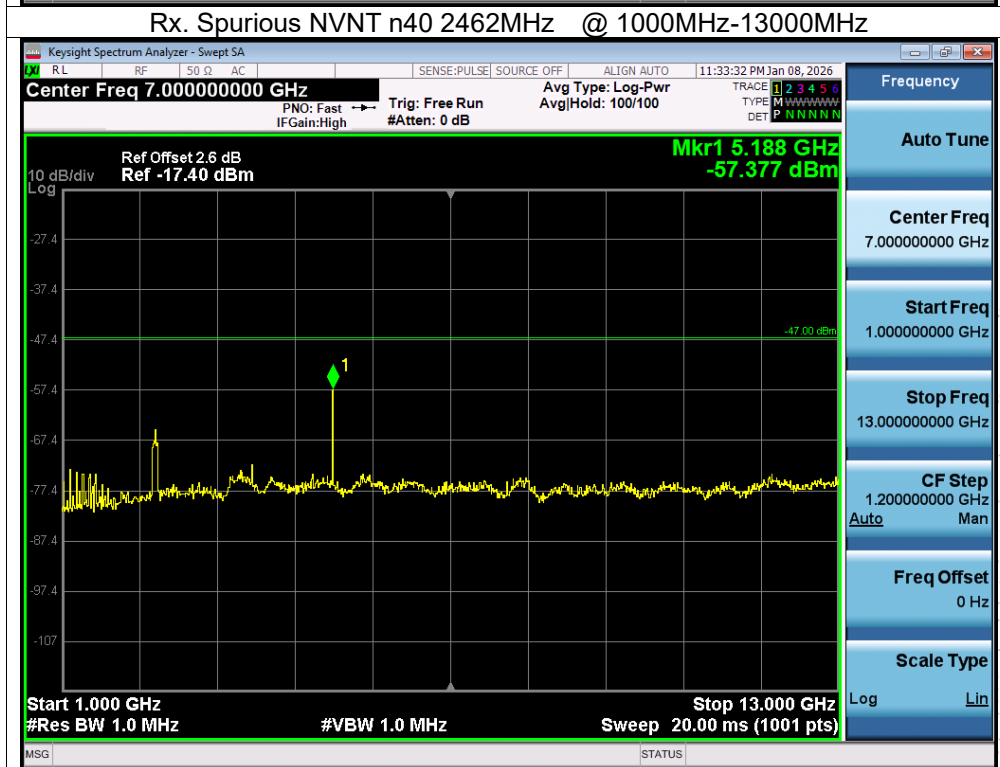
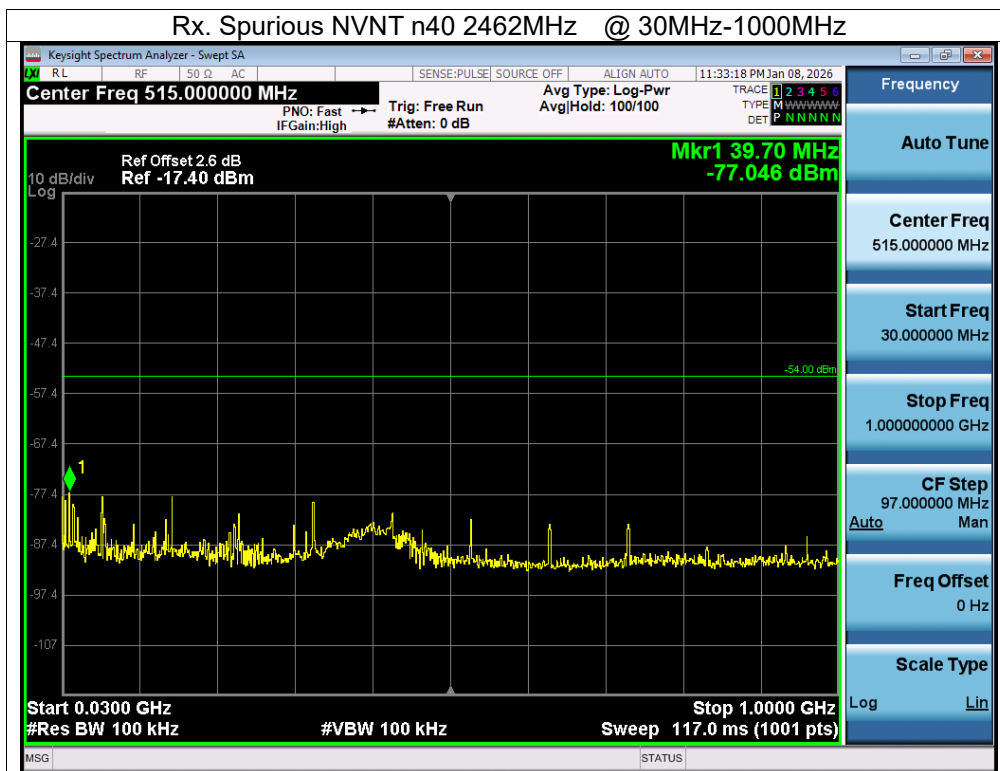








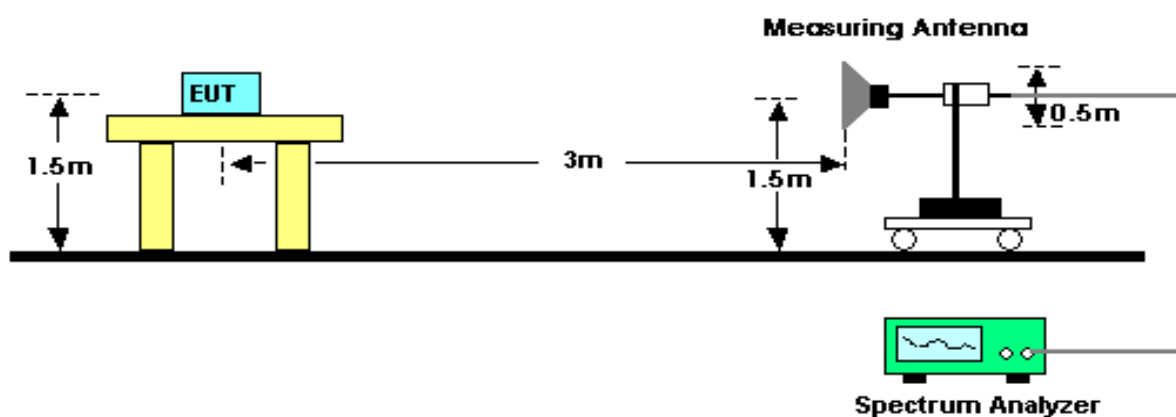




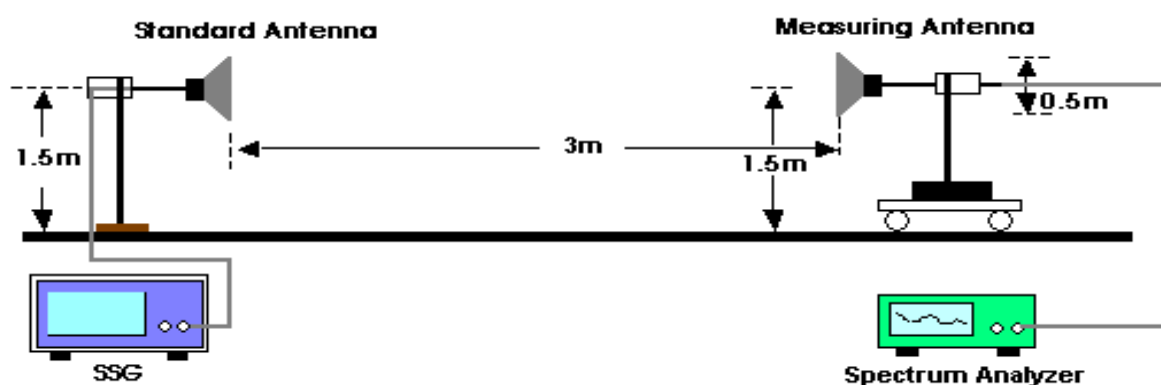
12. Transmission Antenna Gain (EIRP Antenna Power) Measurement

12.1 Block Diagram Of Test Setup

For EUT radiation measurement



For standard antenna measurement



12.2 Limit

Modulation	Frequency band	Antenna power	Max EIRP	
			Non-directional	Beam directional ^{Note1}
DS	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM1	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM2	2,400-2,483.5MHz	5mW/MHz	9.14dBm/MHz	19.14dBm/MHz
FH,DS-FH, FH-OFDM	2,400-2,483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz
	2,427-2,470.75MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
Other than those above	2,400-2,483.5MHz	10mW	12.14dBm	22.14dBm

Note: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 38 MHz or less.

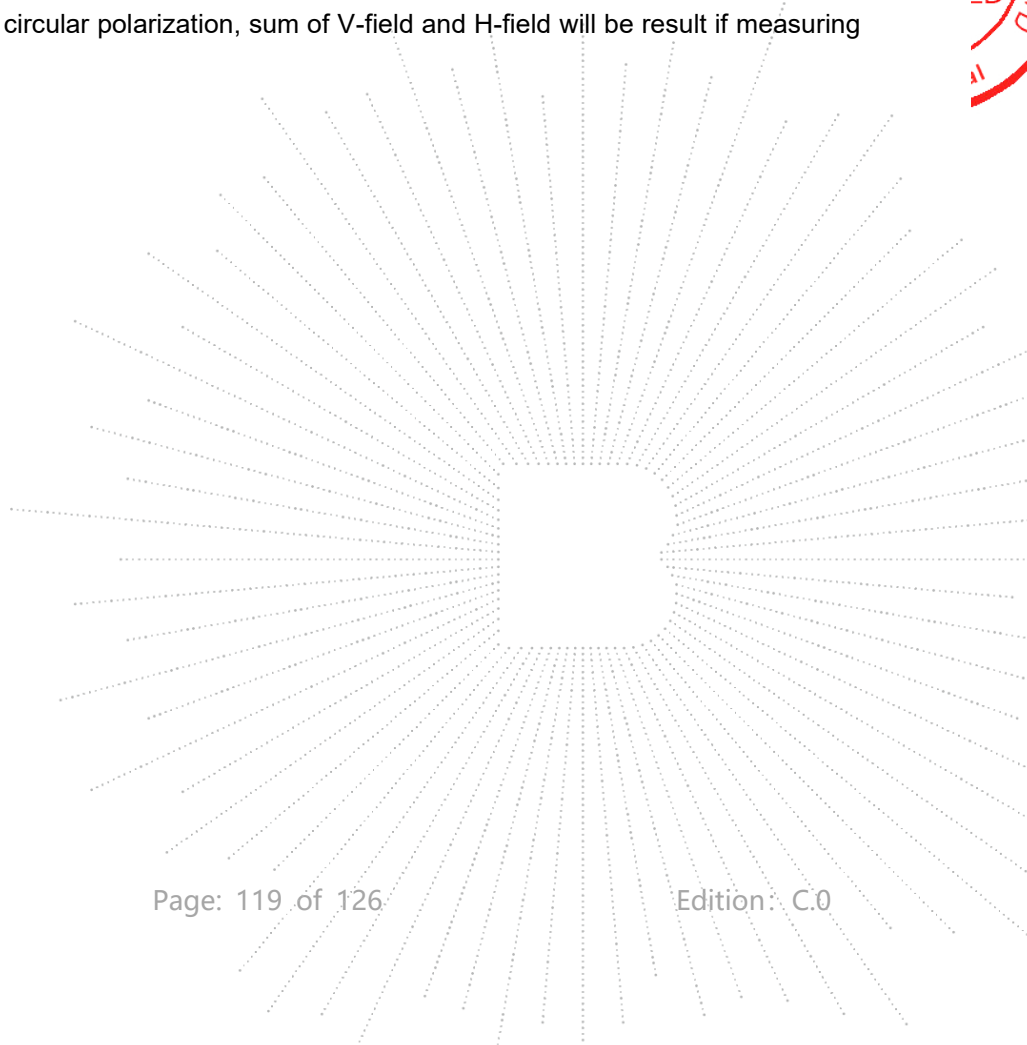
12.3 Measuring Instruments And Setting

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

12.4 Test Procedure

1. Set EUT ad measuring antenna at the same height and roughly facing each other.
2. 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 the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or caluate Pt with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the Pt.
7. Calculate EIRP by the formula below $\text{EIRP} = \text{Gt} - \text{L} + \text{Pt}$.
Gt: gain of replacing antenna (dBi)
L: feeder loss between SSG and replacing antenna
Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.



12.5 Test Result

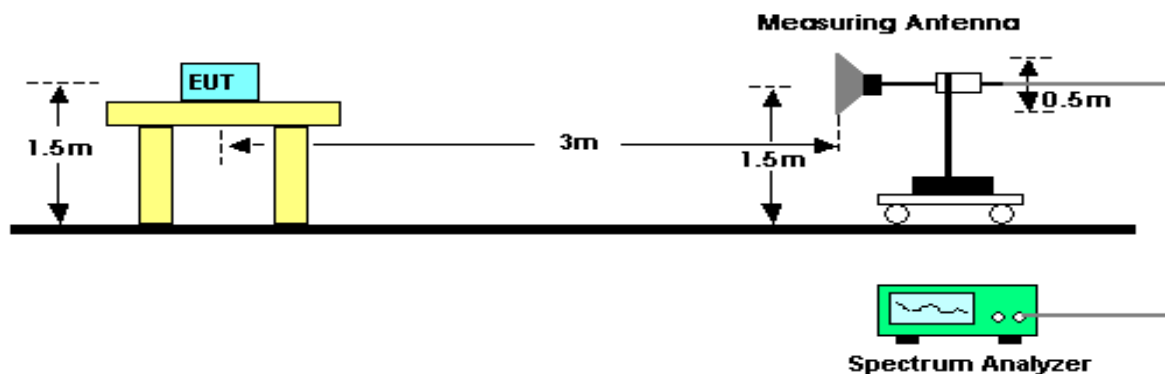
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.7V
Condition:	NVNT		

Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Antenna gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11b	2412	5.74	4.05	9.79	12.14	PASS
	2442	5.91		9.96		
	2472	3.76		7.81		
802.11g	2412	4.31		8.36		
	2442	4.85		8.90		
	2472	4.00		8.05		
802.11n (HT20)	2412	3.56		7.61	9.14	
	2442	3.36		7.41		
	2472	2.93		6.98		
802.11n (HT40)	2422	1.98		6.03		
	2442	1.88		5.93		
	2462	1.76		5.81		
802.11ax (HE20)	2412	3.66		7.71		
	2442	4.03		8.08		
	2472	2.93		6.98		
802.11ax (HE40)	2422	1.61		5.66		
	2442	1.57		5.62		
	2462	1.38		5.43		

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13. Transmission Radiation Angle Width (3dB Beamwidth) Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$
Note ₁ : $A = \text{E.I.R.P.} / (2.14\text{dBi} + \text{"Antenna Power (limit)" of each modulation method (*3mW/MHz, 10mW/MHz, etc.)})$ Note ₂ : This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

13.3 Measuring Instruments And Setting

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

13.4 Test Procedure

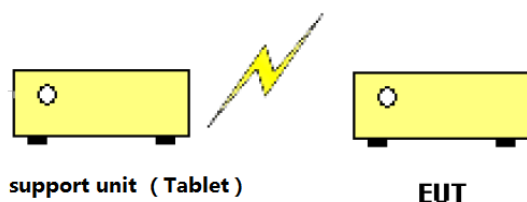
- Set EUT and measuring antenna at the same height and roughly facing each other.
- Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
- Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
- Move 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. The output level at the spectrum analyzer is read as "E"
- Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
- Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or
 $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$

13.5 Test Result

N/A

14. Radio Interference Prevention Capability Measurement

14.1 Block Diagram Of Test Setup



14.2 Limit

Item	Limits
Identification code	≥ 48 bits

14.3 Measuring Instruments And Setting

Item	Limits
MAC IP List	MAC Scan

14.4 Test Procedure

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

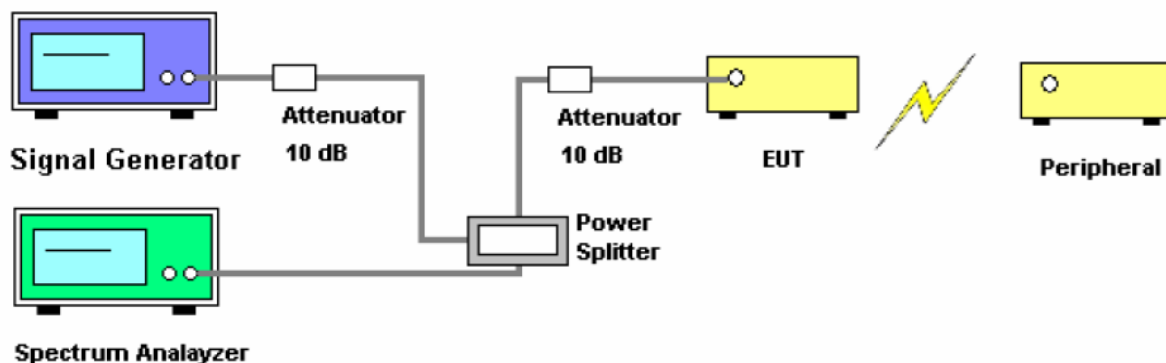
14.5 Test Result

Temperature:	26°C	Test Voltage	DC 3.7V
Humidity:	54 % RH	Test result:	PASS

MAC: 32:76:16:43:ed:25

15. Carrier Sense Capability Measurement

15.1 Block Diagram Of Test Setup



15.2 Limit

EUT stop RF transmission signal after carrier inject to EUT

15.3 Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on $22.79 + G - 20 \cdot \log(f) \text{ dBm}$) (G is the antenna gain, f is the test frequency).
2. turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

15.4 Test Result

Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11n40	CH3	Pass	Pass	Pass
	CH7	Pass	Pass	Pass
	CH11	Pass	Pass	Pass
802.11ax40	CH3	Pass	Pass	Pass
	CH7	Pass	Pass	Pass
	CH11	Pass	Pass	Pass

Note: For this test just evaluate the mode which bandwidth $\geq 26 \text{ MHz}$.
Result: PASS

16. EUT Photographs

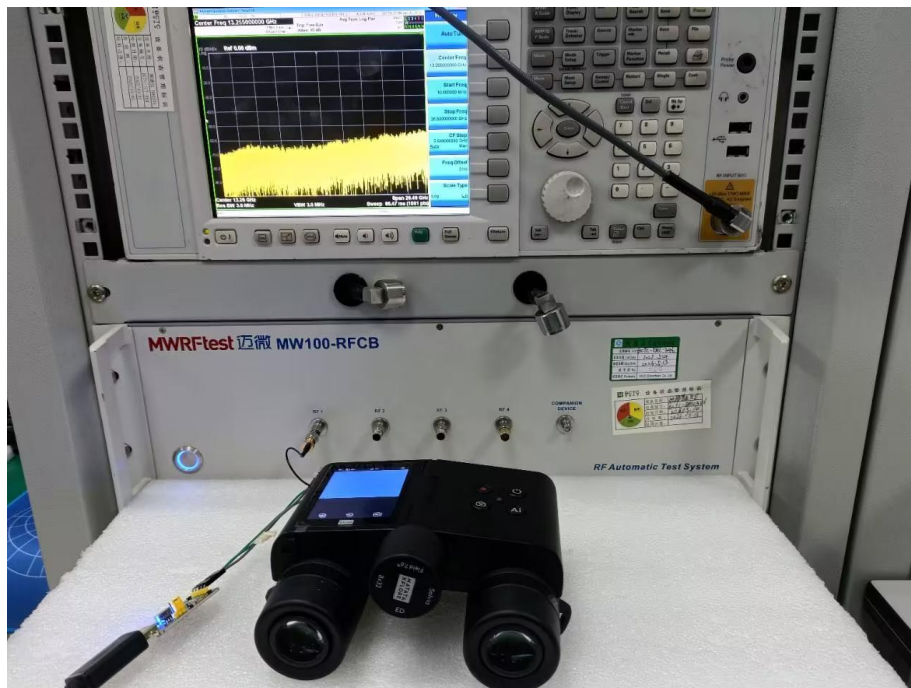
EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details.
(BN8x32_External & Internal Photos)

17. EUT Test Setup Photographs

Measurement Photos



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.

Address:

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***** END *****

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