

TEST REPORT

Report No.: BCTC2601737221-5E

Applicant: Shenzhen Zhuo Er Photographic Equipment Co., Ltd

Product Name: 5 INCH WIRELESSVLOG SELFIE MONITOR

Test Model: M5

Tested Date: 2026-01-13 to 2026-02-26

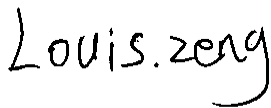
Issued Date: 2026-02-26

Shenzhen BCTC Technology Co., Ltd.



Product Name: 5 INCH WIRELESSVLOG SELFIE MONITOR
Trademark: K&F CONCEPT
Model/Type reference: M5
Prepared For: Shenzhen Zhuo Er Photographic Equipment Co., Ltd
Address: Room 712, Building No.2, YaoFengTong Industrial Park, No.1 Donghuan Road, Yousong Community, Longhua Street, Longhua District, Shenzhen, China
Manufacturer: Shenzhen Zhuo Er Photographic Equipment Co., Ltd
Address: Room 712, Building No.2, YaoFengTong Industrial Park, No.1 Donghuan Road, Yousong Community, Longhua Street, Longhua District, Shenzhen, China
Prepared By: Shenzhen BCTC Technology Co., Ltd.
Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China
Sample Received Date: 2026-01-13
Sample tested Date: 2026-01-13 to 2026-02-26
Issue Date: 2026-02-26
Report No.: BCTC2601737221-5E
Test Standards: Article 2-1-19-3
Test Results: PASS
Remark: This is JAPAN RADIO test report.

Tested by:



Louis Zeng/ Project Handler

Approved by:



Sewen Guo/Reviewer

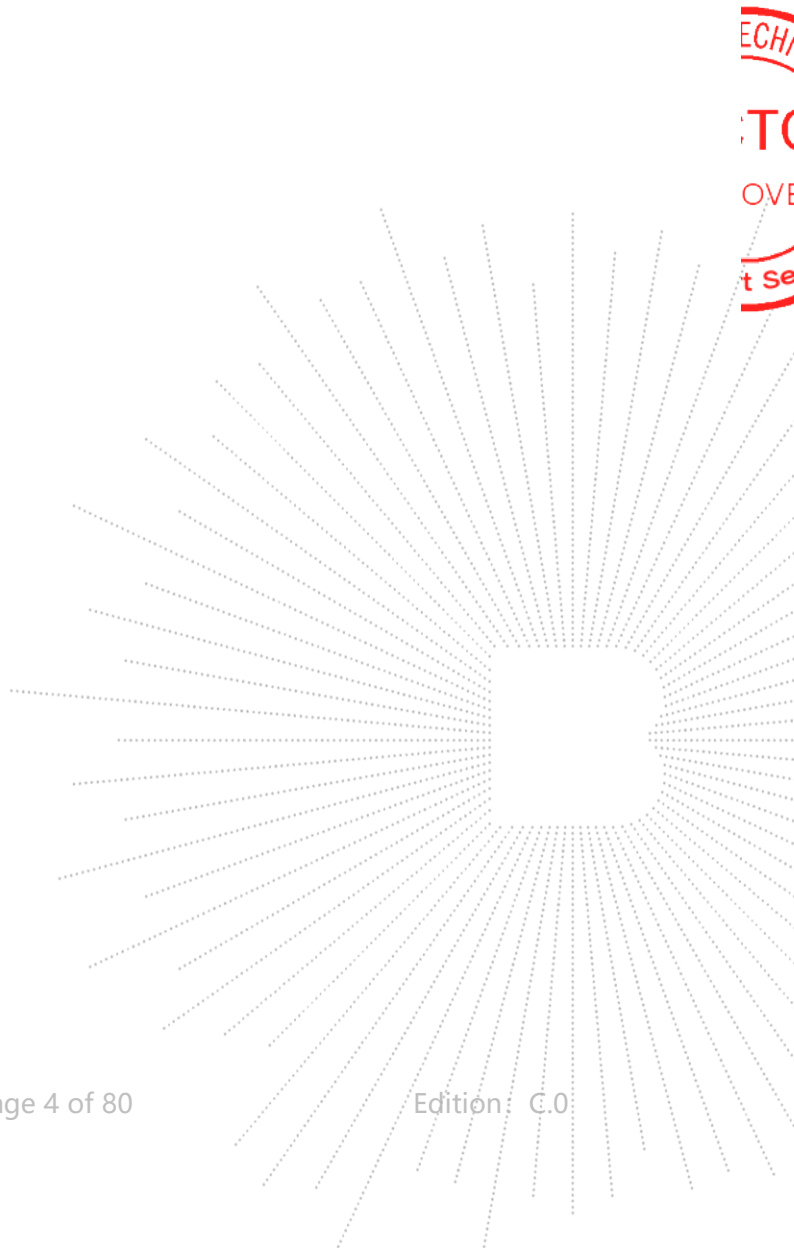
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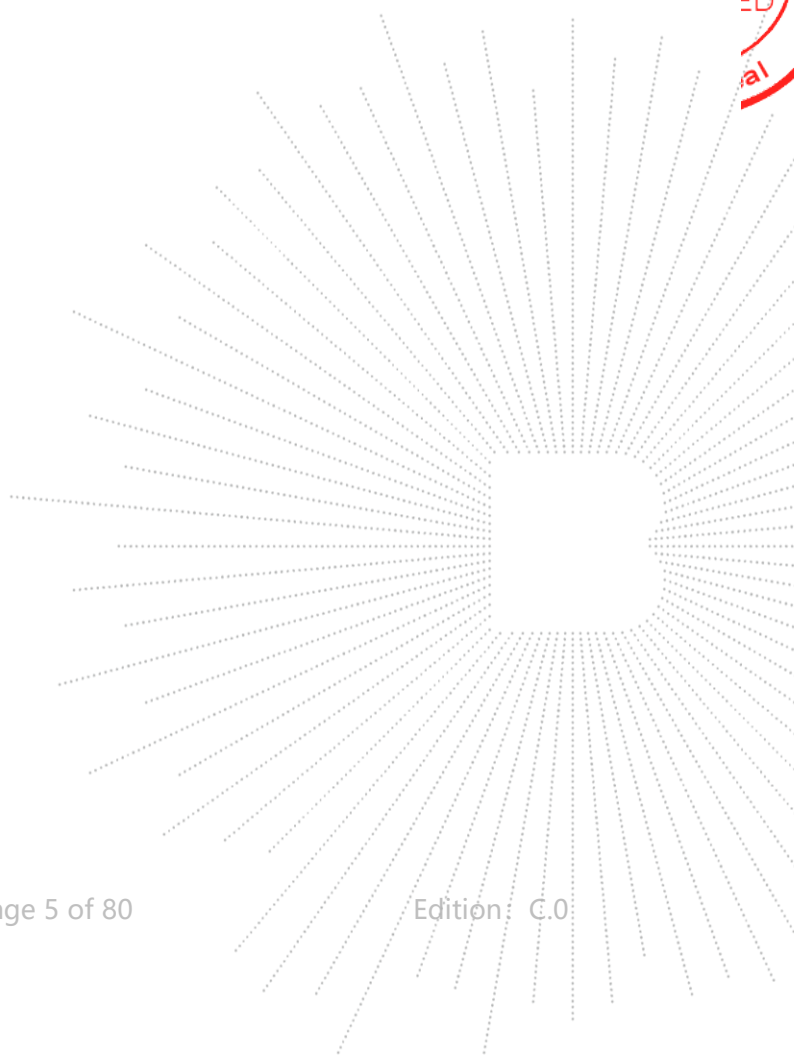
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2601737221-5E	2026-02-26	Original	Valid



2. Test Summary

Test procedures according to the technical standards:

Article 49-20	
Description of Test	Result
Frequency Error	Complies
Occupied Bandwidth (99%)	Complies
Unwanted Emission Intensity	Complies
Antenna Power and Tolerance	Complies
Secondary Radiated Emissions	Complies
Transmitter Burst Length	Complies
Interference Prevention Function	Complies
Carrier Sense Capability	Complies
Adjacent Channel Emitted Power	Complies
Out-Band Leakage Power	Complies
Construction Protection Confirmation	Complies
DFS	N/A

NOTE:

- (1) MIC Notice No.88 Appendix No.45
- (2) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20
- (3) DFS:A prototype is a client device that can be exempted
- (4) client Without Tpc.

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 %.

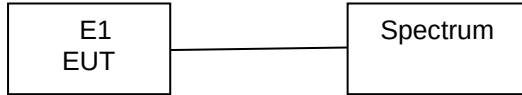
No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power, conducted	$\pm 0.16\text{dB}$
4	Spurious emissions, conducted	$\pm 0.21\text{dB}$
5	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions, radiated(>1G)	$\pm 5.0\text{dB}$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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	M5
Model differences:	N/A
Hardware Version:	EM05-A_20251103
Software Version:	EM05FOTA_EM05_2510141443
Wi-Fi Specification:	802.11a/n/(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth)
Operation Frequency:	5260MHz-5320MHz for 802.11a/n(HT20); 5270MHz-5310MHz for 802.11n(HT40);
Rated RF Output Power Density	802.11a: 3 mW/MHz ; 802.11n20: 2 mW/MHz; 802.11 n40: 2 mW/MHz;
Conducted Power Density	802.11a: 2.49 mW/MHz; 802.11n20: 1.64 mW/MHz; 802.11 n40: 1.61 mW/MHz;
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM / for 802.11a/n
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15;
Number Of Channel:	4 channels for 802.11a/n20 in the 5260-5320MHz band ; 2 channels for 802.11 n40 in the 5270-5310MHz band ;
Antenna installation:	Internal antenna 0.04 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:	Charging: DC 5V from adapter Battery: DC 3.8V

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	5 INCH WIRELESSVLOG SELFIE MONITOR	K&F CONCEPT	M5	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

802.11a/n(20MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
52	5.260	60	5.300
56	5.280	64	5.320

802.11n(40MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
54	5.270	62	5.310

4.5 Test Mode

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

Pretest Mode	Description	
Mode 1	CH52	802.11a
Mode 2	CH56	
Mode 3	CH64	
Mode 4	RX	
Mode 5	CH52	802.11n20
Mode 6	CH56	
Mode 7	CH64	
Mode 8	RX	
Mode 9	CH54	802.11n40
Mode 10	CH62	
Mode 11	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	3.8V	4.18V	3.42V
output voltage(RF chip voltage)	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	RFTestTool		
Parameters	DEF	DEF	DEF
Frequency	5280 MHz	5270 MHz	5280MHz
Parameters	DEF	DEF	DEF
Frequency	5310 MHz	5310 MHz	5320MHz

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 Technology Co., Ltd. Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang 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

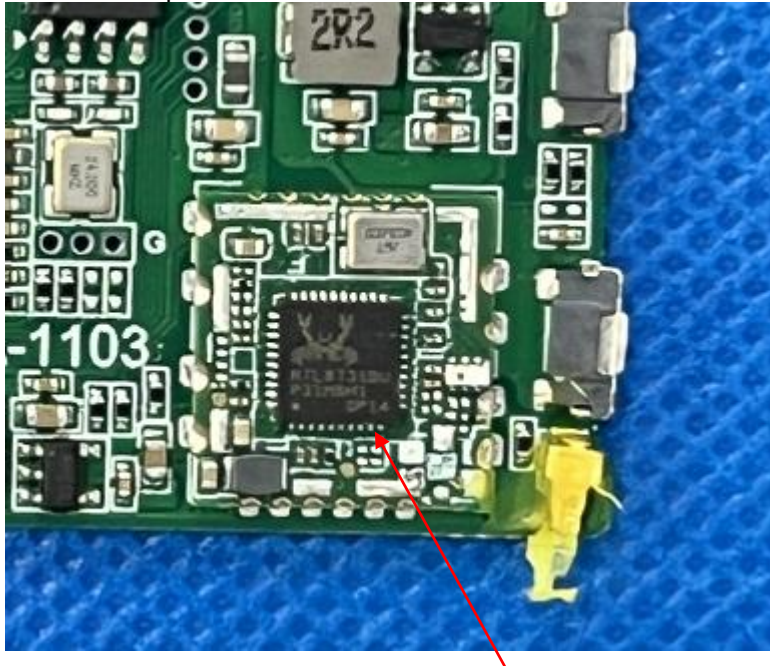
5.2 Test Instrument Used

Item	Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
1.	Power Metter	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

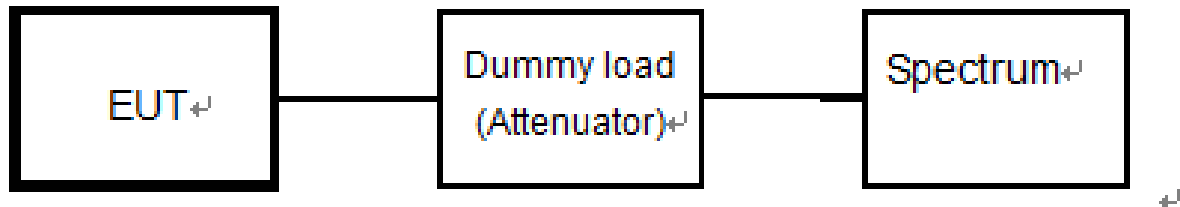
6. Tamperproof Declaration

Number of the pins: 40 interval distance 0.4mm



7. Frequency Error

7.1 Block Diagram Of Test Setup



7.2 Limit

Item	Limits
Frequency Error	$\pm 20\text{ppm}$

7.3 Measuring Instruments And Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

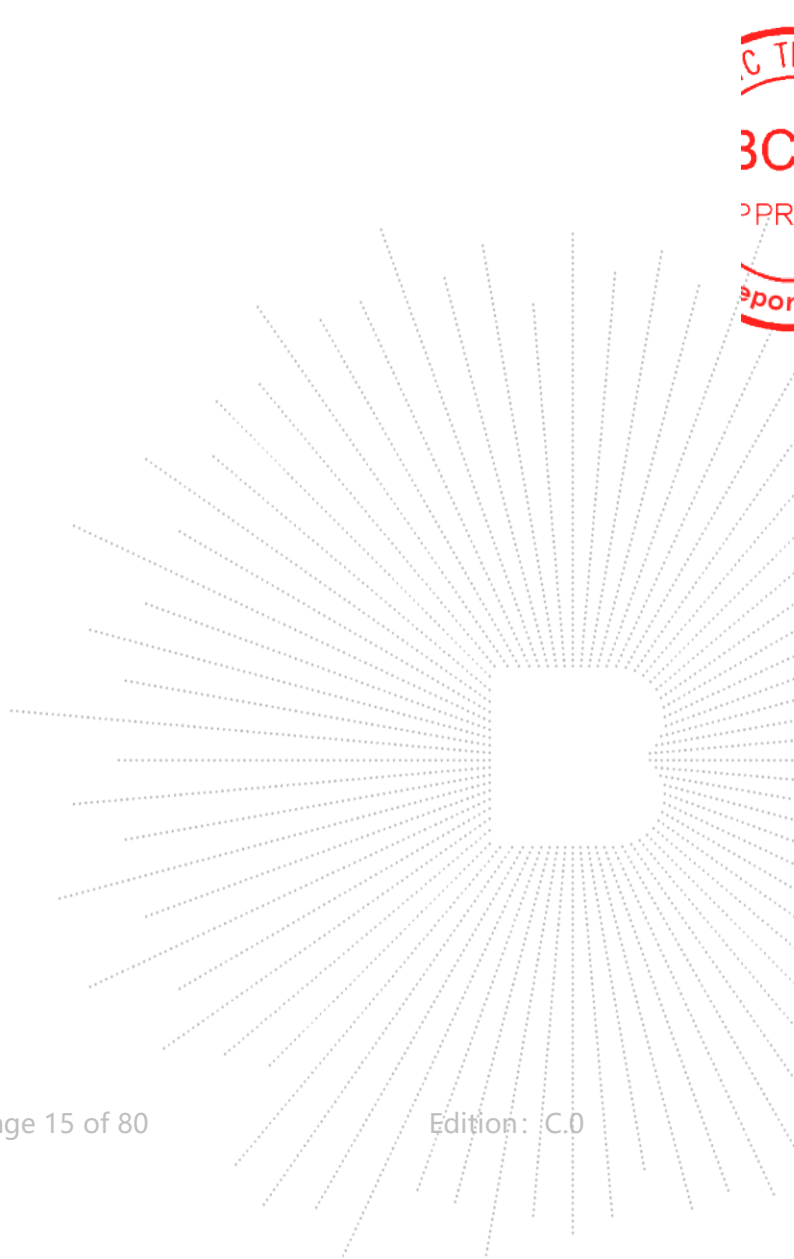
7.4 Test Procedure

- (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.

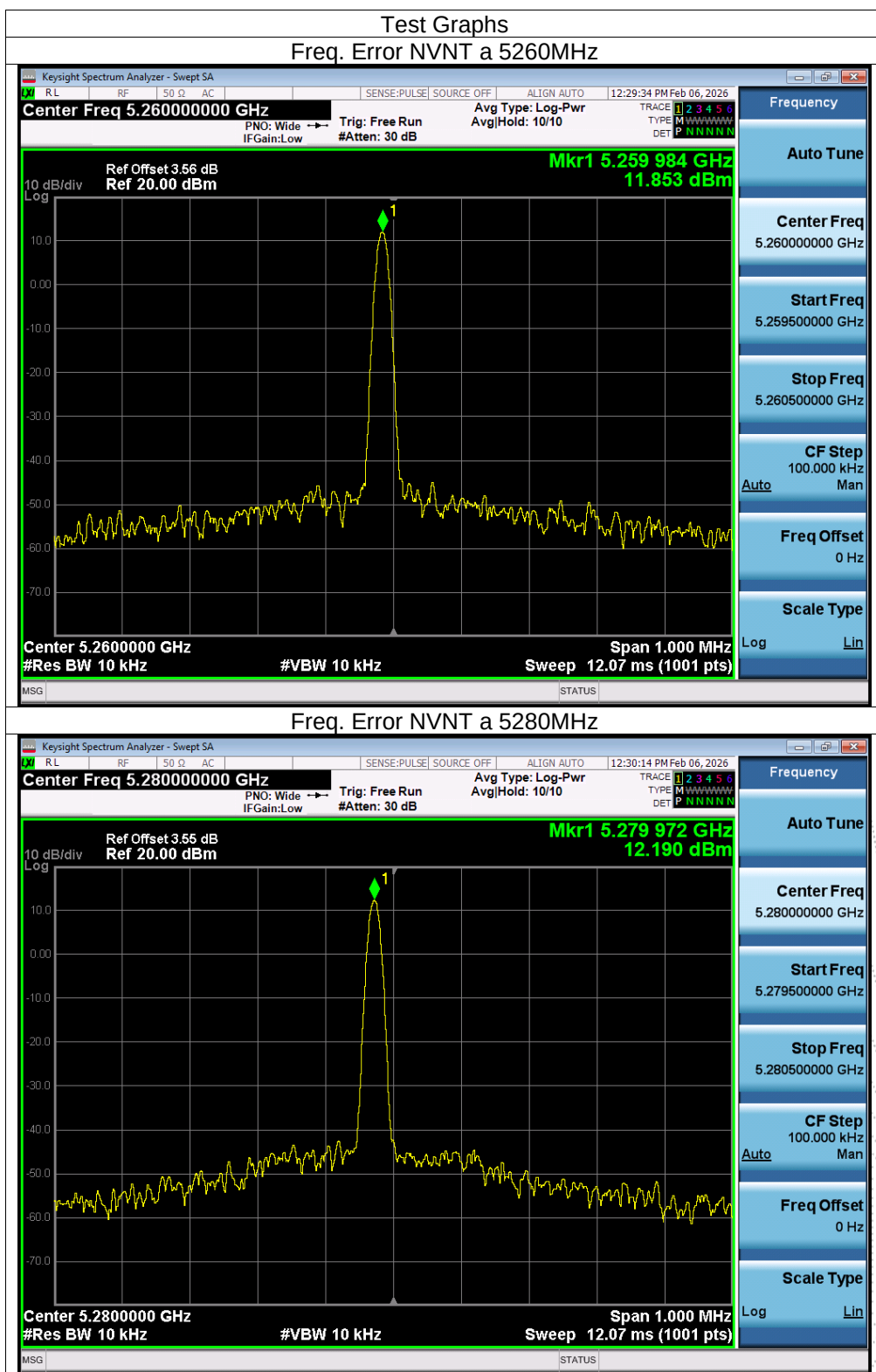
7.5 Test Result

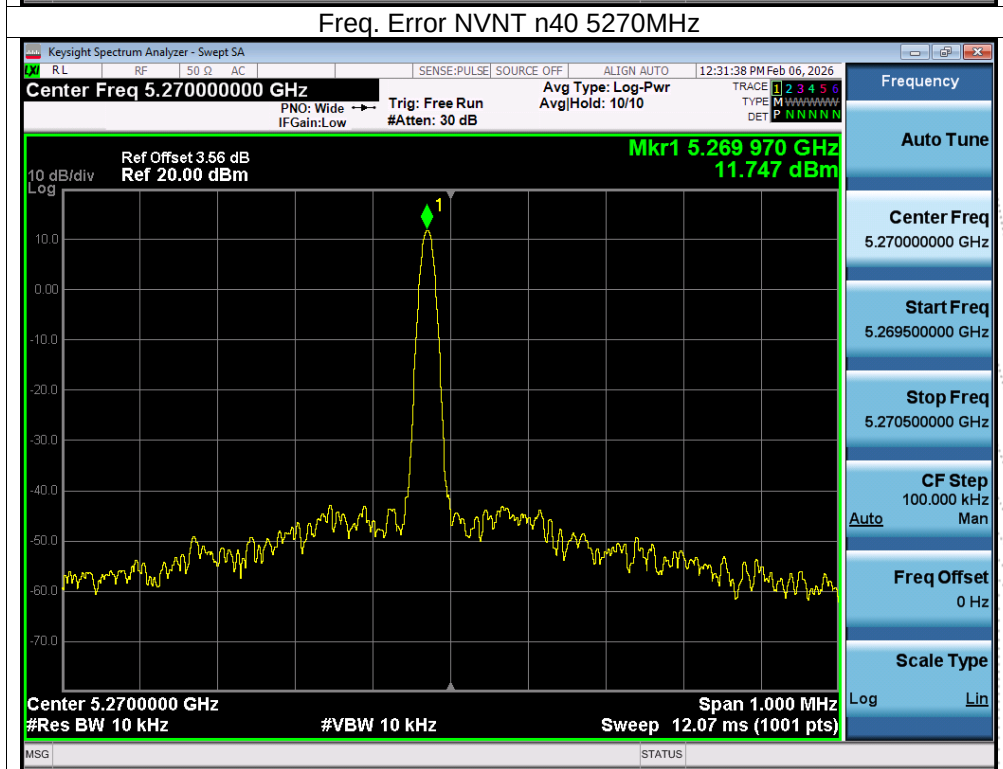
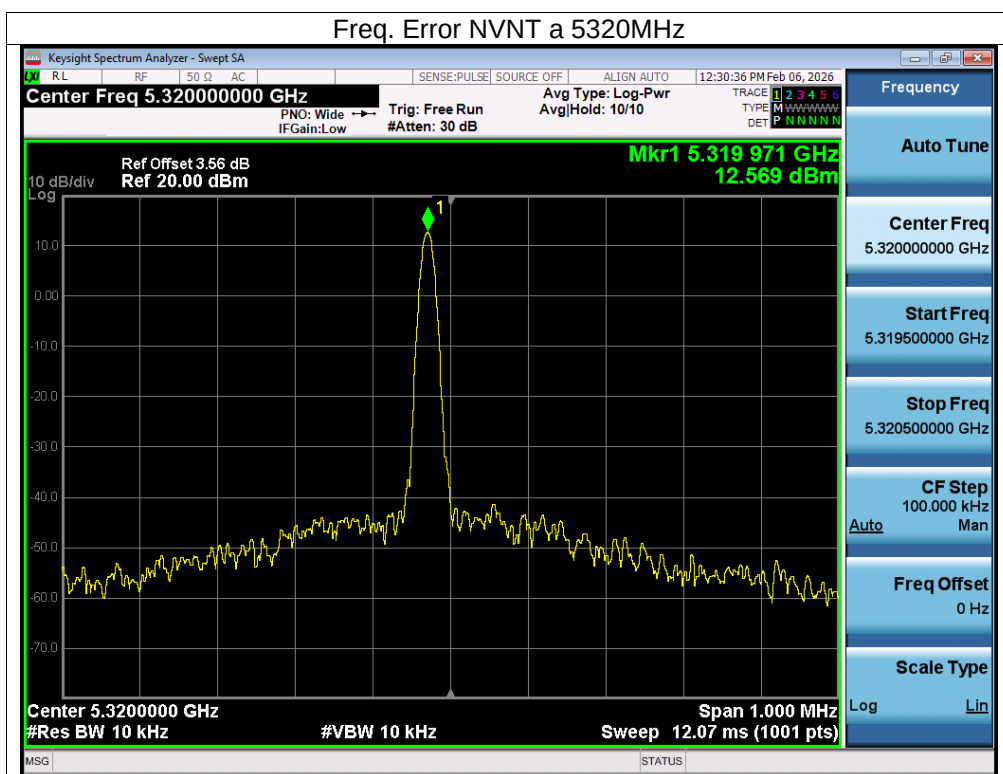
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

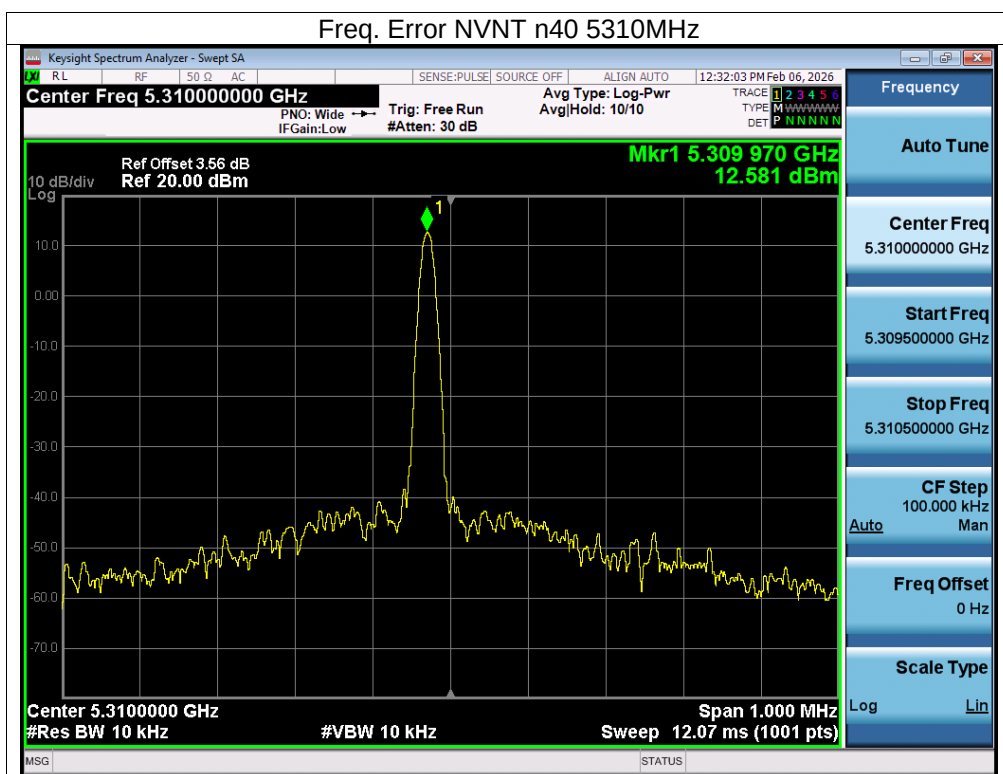
Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	5260	5259.984	-16000	-3.04	±20	Pass
NVNT	5280	5279.972	-28000	-5.3	±20	Pass
NVNT	5320	5319.971	-29000	-5.45	±20	Pass
NVNT	5270	5269.97	-30000	-5.69	±20	Pass
NVNT	5310	5309.97	-30000	-5.65	±20	Pass



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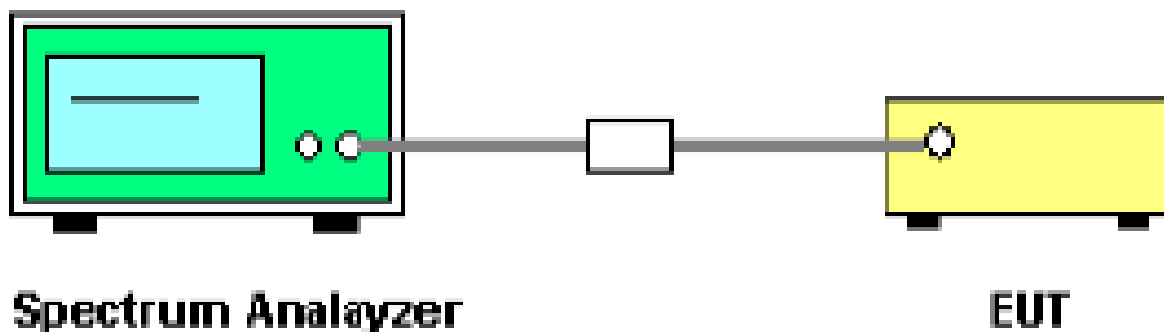




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8. Antenna Power

8.1 Block Diagram Of Test Setup



8.2 Limit

Item	Limits
Antenna Power	802.11a20/n20/ac20 $\leq$ 5mW/MHz 802.11n40/ac40 $\leq$ 2.5mW/MHz 802.11ac80 $\leq$ 1.25mW/MHz
Antenna Power tolerance	+20%, -80% (Base on manufacturer declare antenna power density)

8.3 Measuring Instruments And Setting

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. EUT Connect the to 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 $PD = Pt + 10 \cdot \log(1/x)$.
x: The duty cycle of the EUT in continuously transmitting mode
Pt: Output power of the SSG
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.

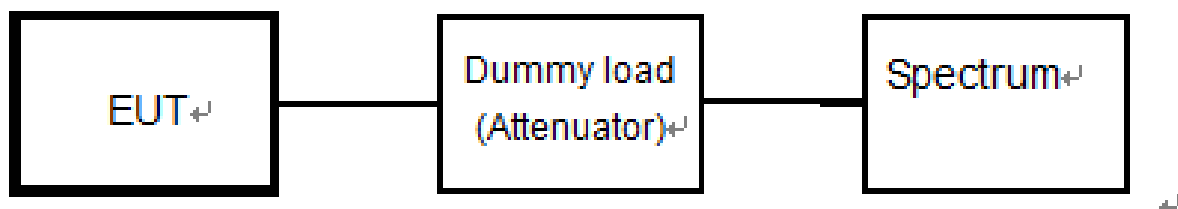
8.5 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

Condi- tion	Mode	Fre- quency (MHz)	Power (dBm/ MHz)	Antenna Power (mW/ MHz)	Antenna Gain (dBi)	Declared Power (mW/ MHz)	EIRP (mW/ MHz)	EIRP Limit (mW/ MHz)	Antenna Power Error (%)	Verdict
NVNT	a	5260	2.6	1.82	0.04	3	1.84	5	-39	Pass
NVNT	a	5280	3.37	2.17	0.04	3	2.19	5	-28	Pass
NVNT	a	5320	3.96	2.49	0.04	3	2.51	5	-17	Pass
NVNT	n20	5260	1.54	1.43	0.04	2	1.44	5	-29	Pass
NVNT	n20	5280	2.05	1.6	0.04	2	1.62	5	-20	Pass
NVNT	n20	5320	2.16	1.64	0.04	2	1.66	5	-18	Pass
NVNT	n40	5270	1.32	1.35	0.04	2	1.37	2.5	-32	Pass
NVNT	n40	5310	2.06	1.61	0.04	2	1.62	2.5	-20	Pass
Antenna Power Error Limit : +20%, -80% (Base on manufacturer declare antenna power density)										

9. Occupied Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

Item	Limits
Occupied Bandwidth	Not exceed 20MHz(DSSS 20MHz system) 20MHz(OFDM 20MHz system), 40MHz(OFDM 40MHz system) , 80MHz(OFDM 80MHz system)

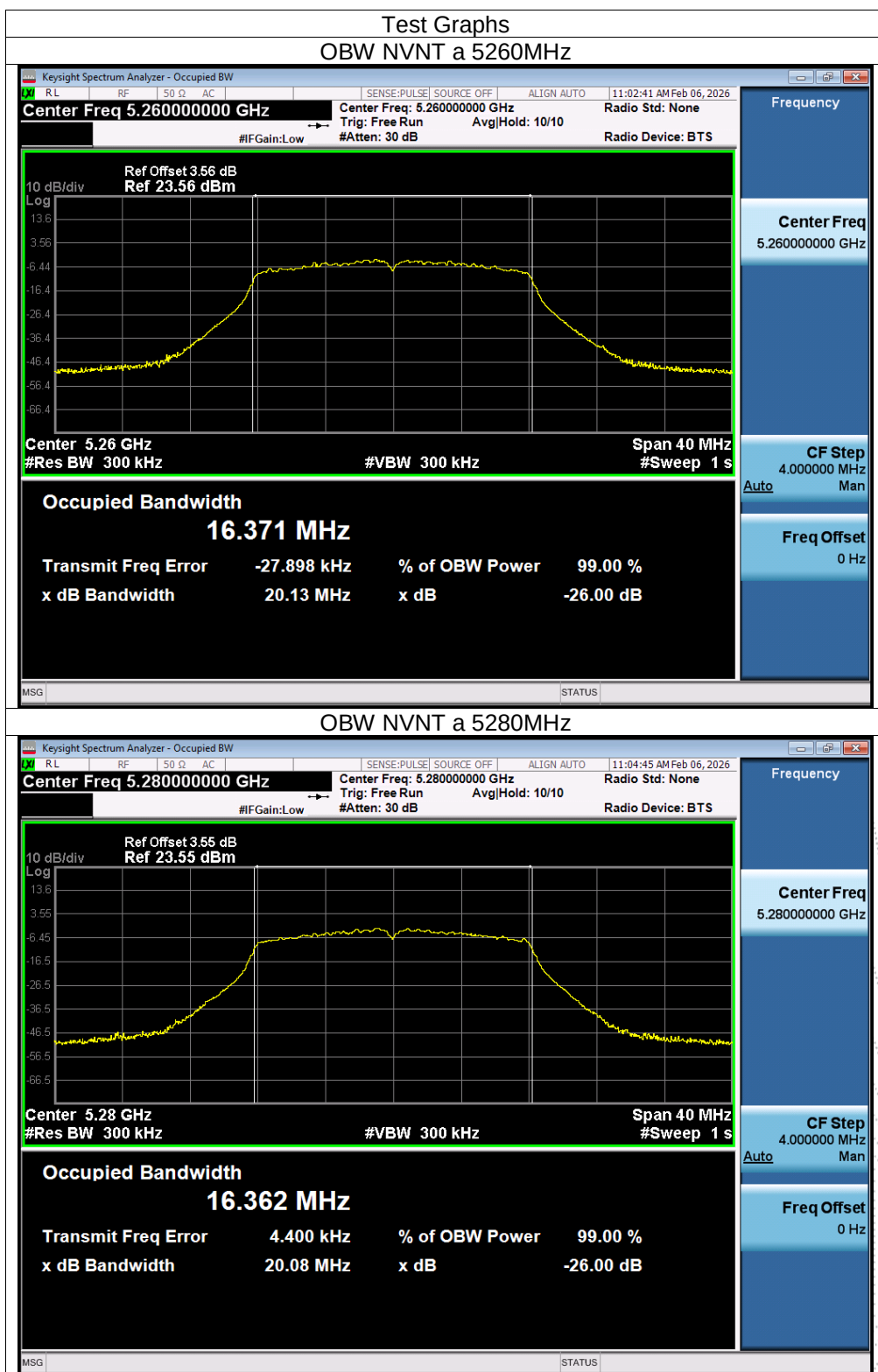
9.3 Test Procedure

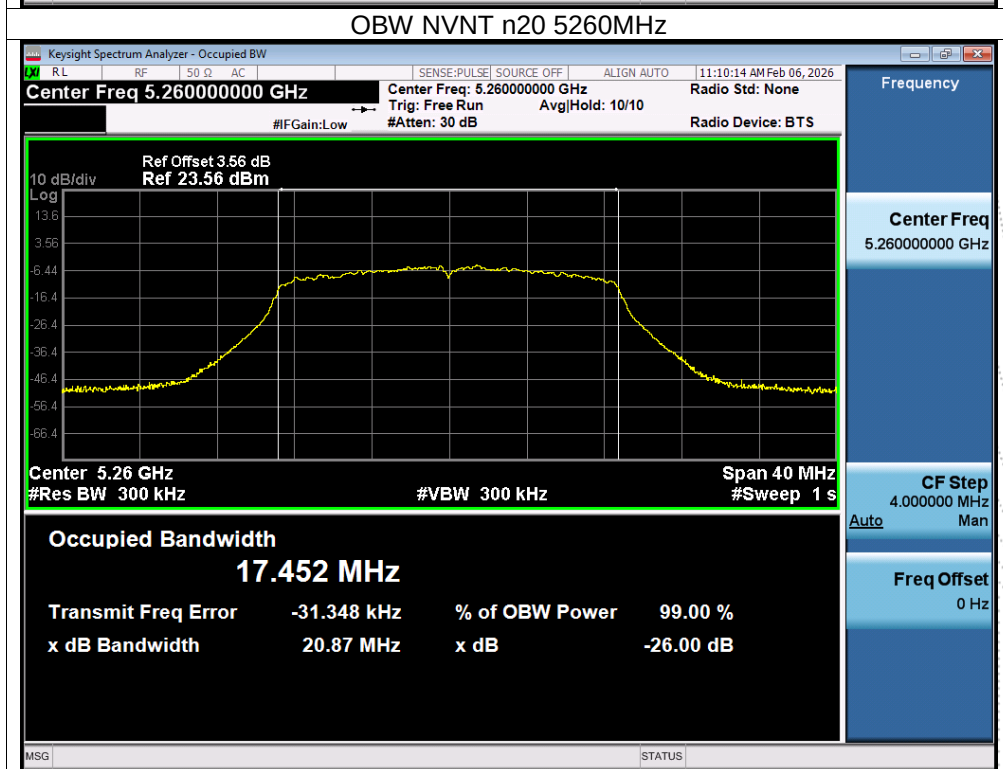
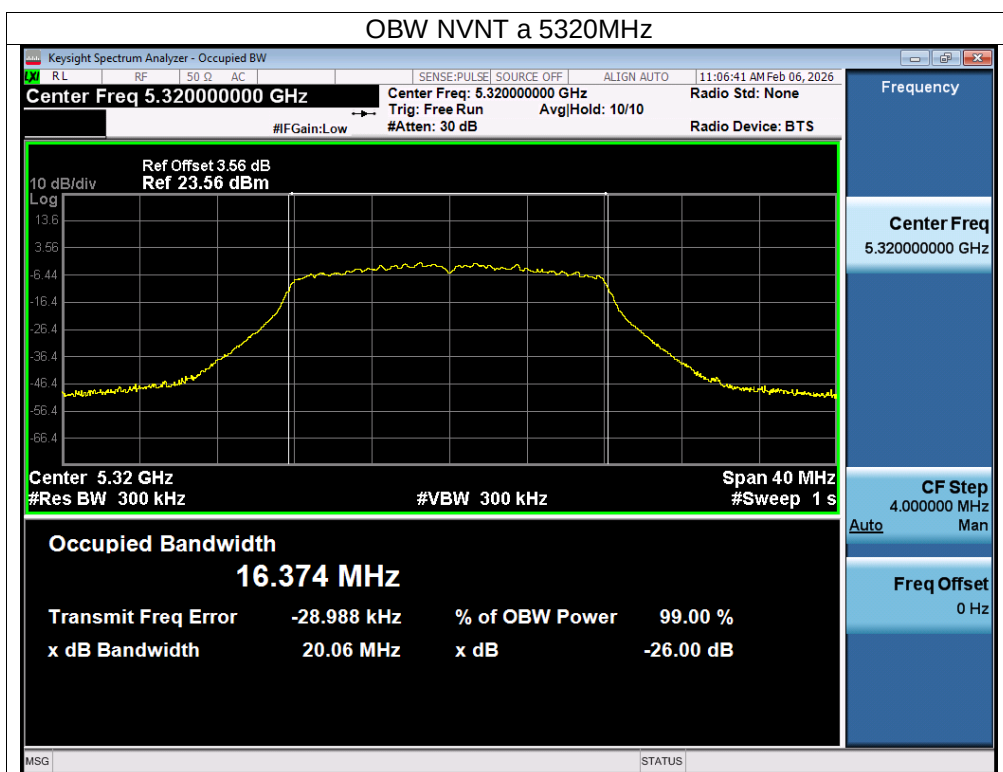
- Setting of SA is following as: RB: 300 kHz / VB: 300 kHz / SPAN: 3MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive: peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).

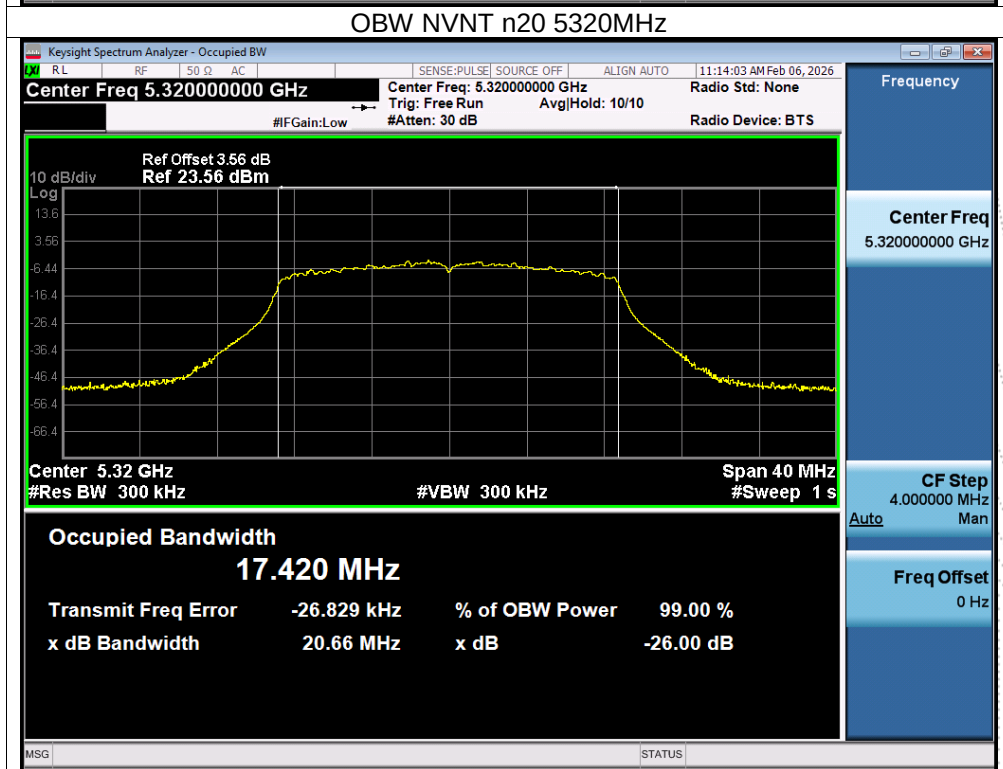
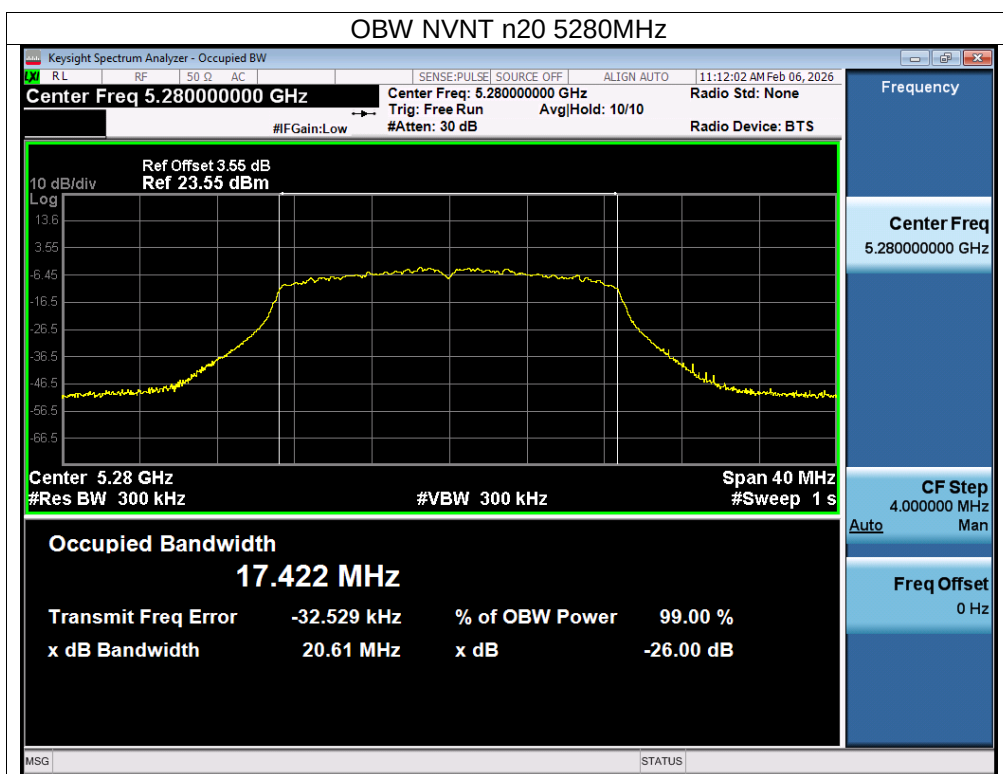
9.4 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

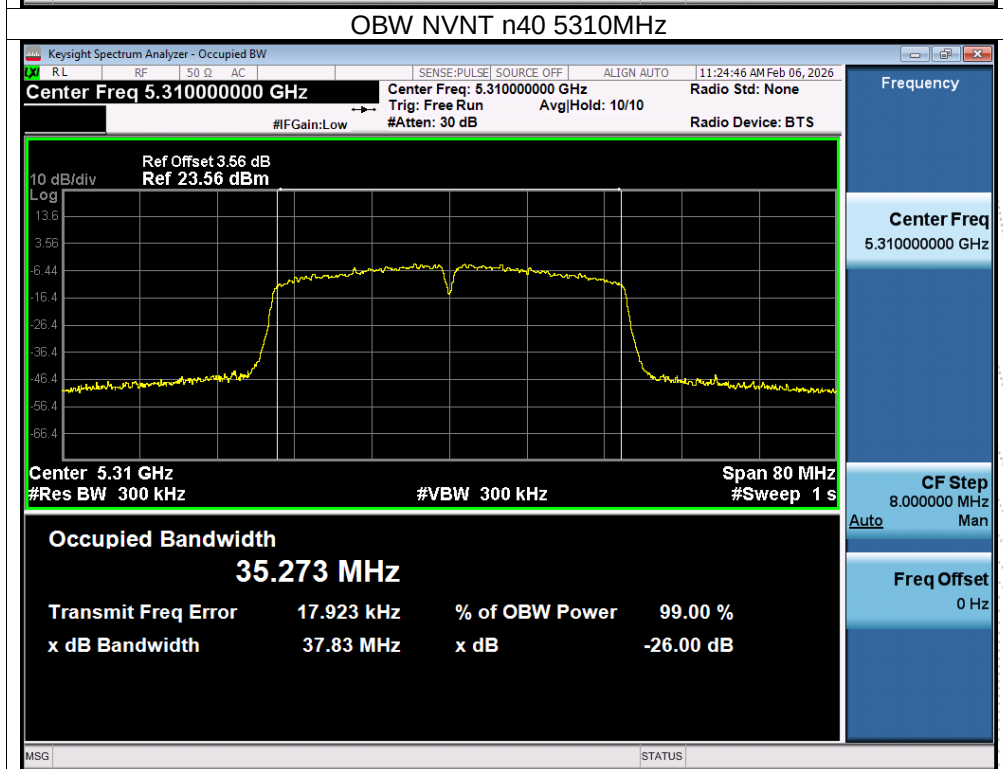
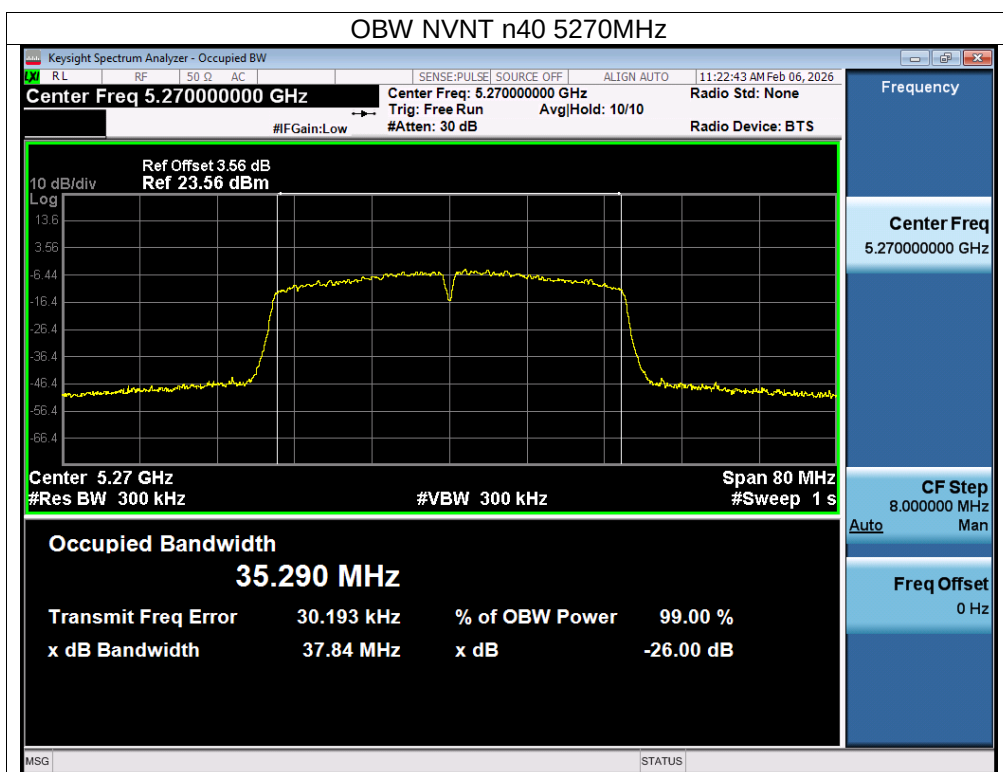
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5260	16.371	20	Pass
NVNT	a	5280	16.362	20	Pass
NVNT	a	5320	16.374	20	Pass
NVNT	n20	5260	17.452	20	Pass
NVNT	n20	5280	17.422	20	Pass
NVNT	n20	5320	17.42	20	Pass
NVNT	n40	5270	35.29	40	Pass
NVNT	n40	5310	35.273	40	Pass







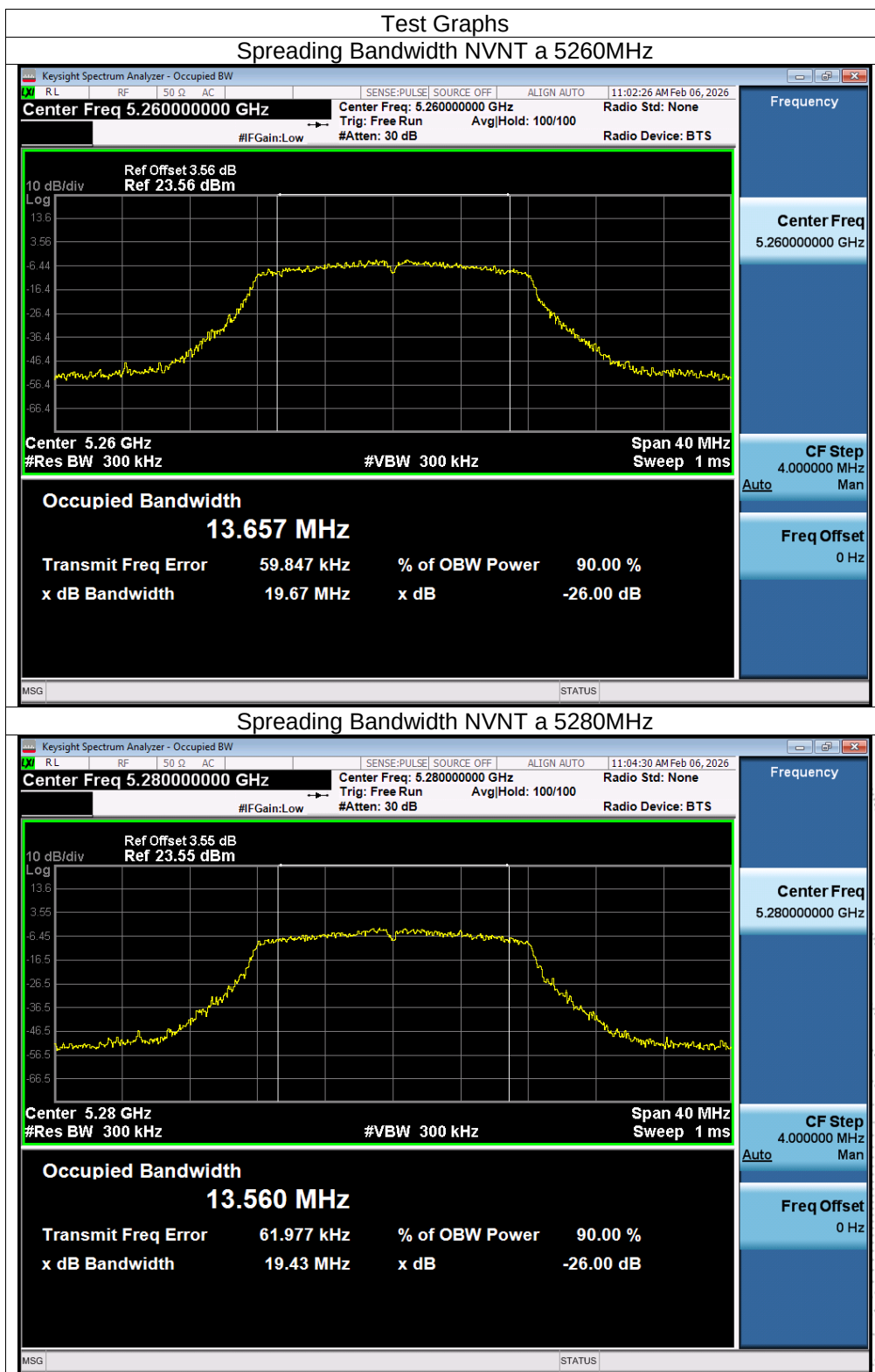
CO., LTD

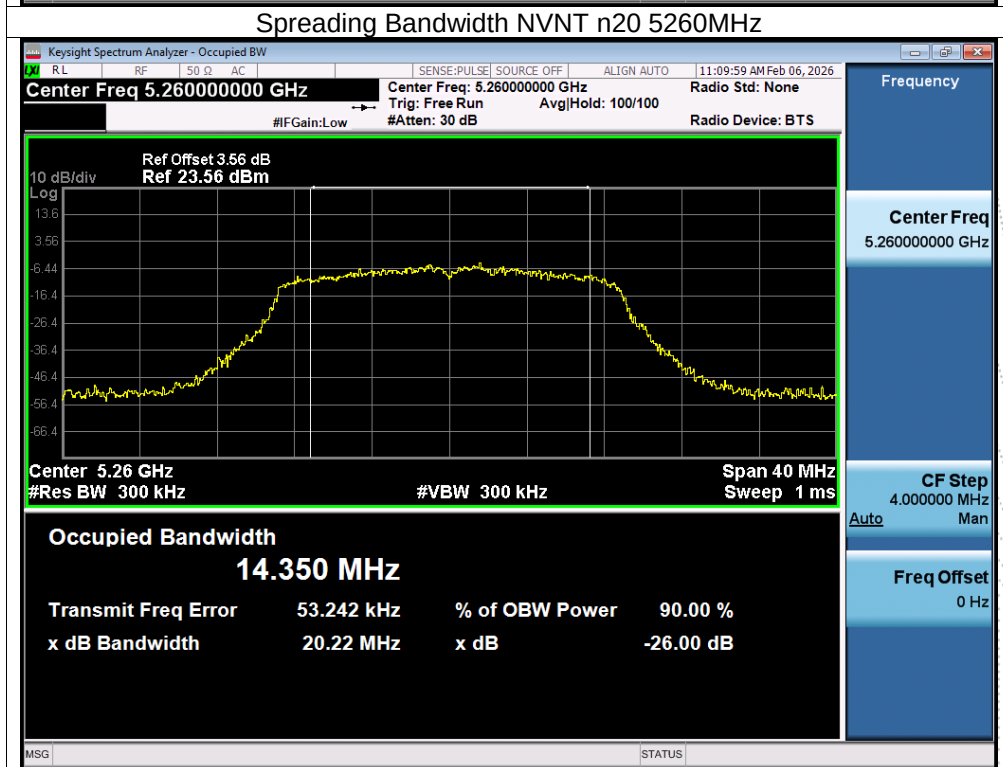
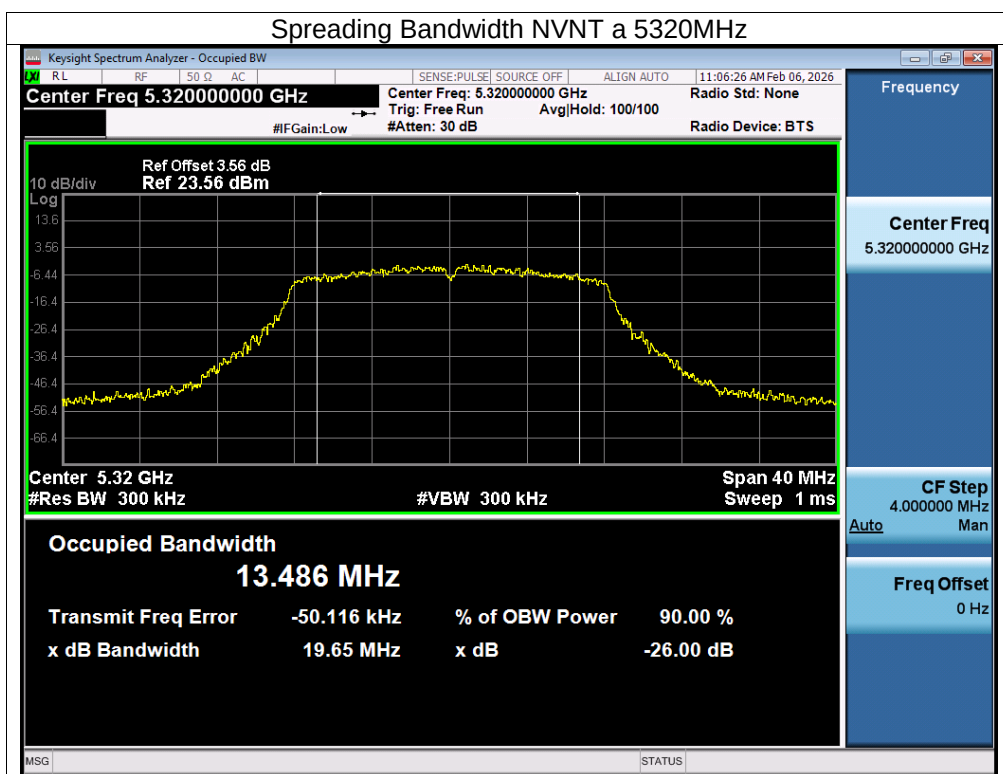


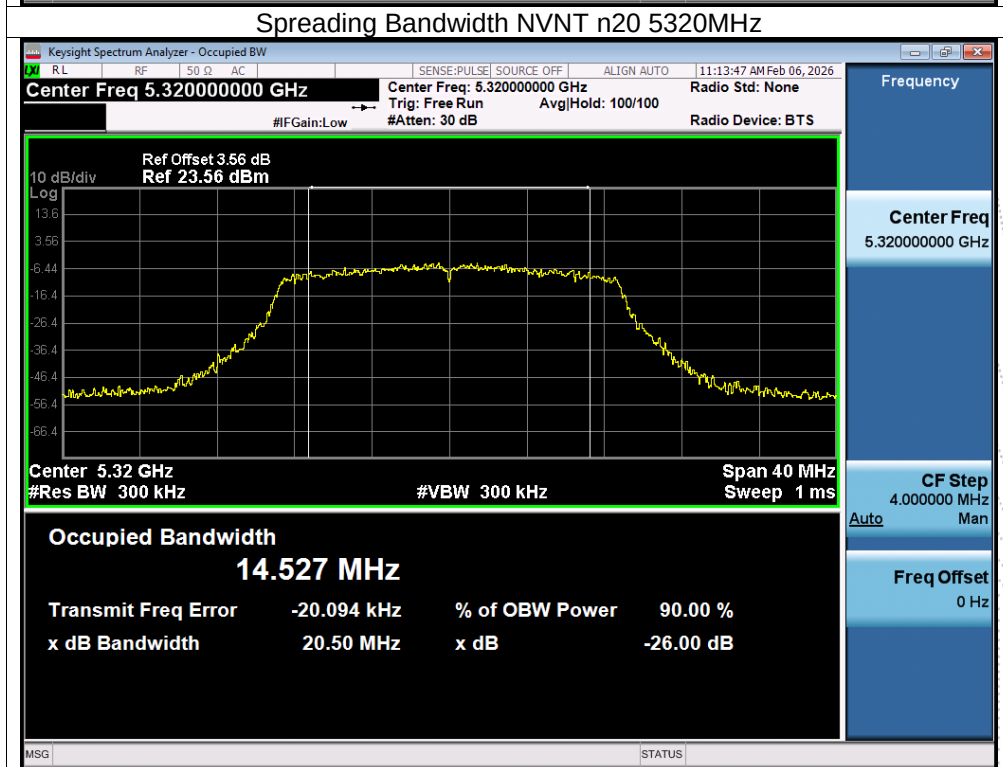
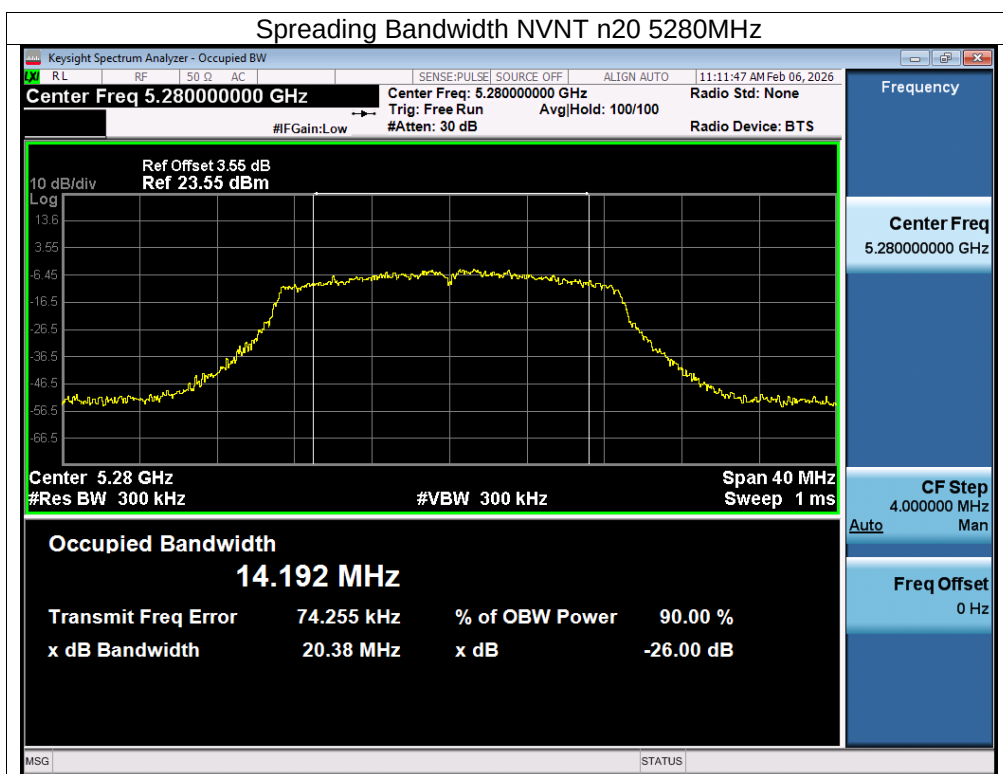
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

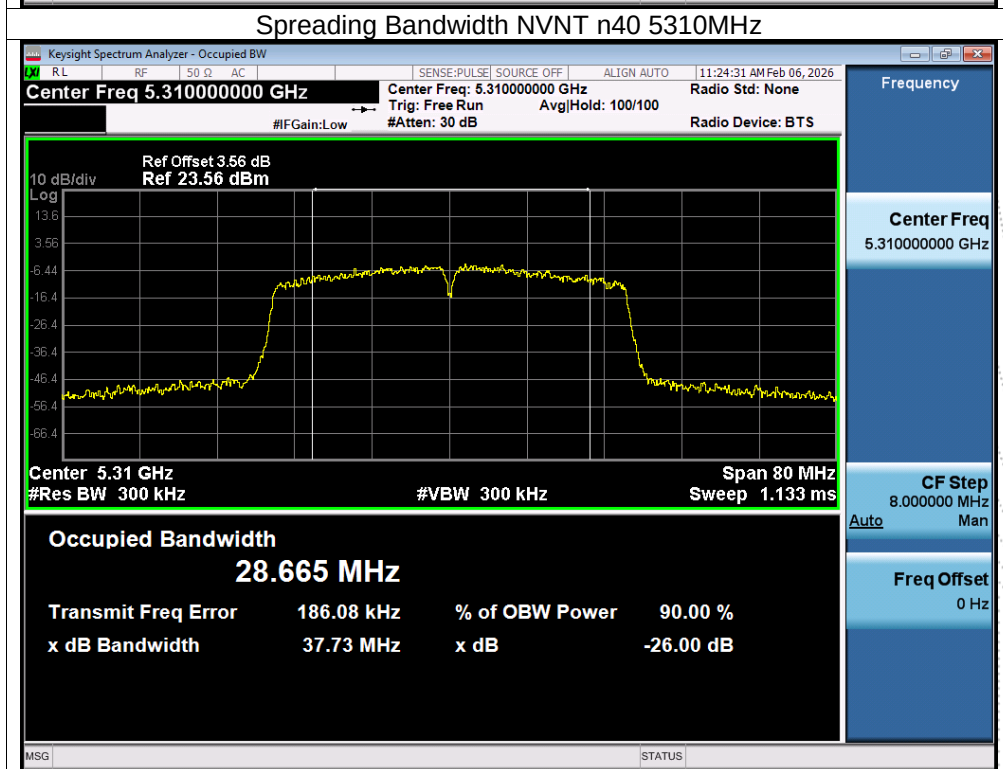
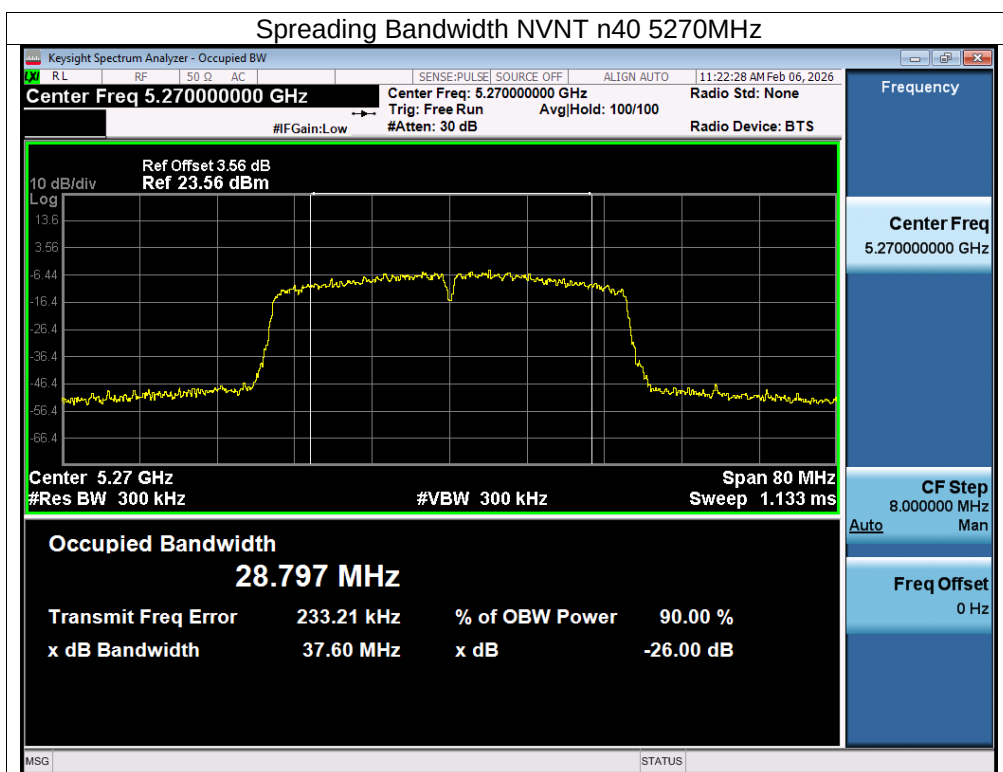
Condition	Mode	Frequency (MHz)	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5260	13.657	0.5	Pass
NVNT	a	5280	13.56	0.5	Pass
NVNT	a	5320	13.486	0.5	Pass
NVNT	n20	5260	14.35	0.5	Pass
NVNT	n20	5280	14.192	0.5	Pass
NVNT	n20	5320	14.527	0.5	Pass
NVNT	n40	5270	28.797	0.5	Pass
NVNT	n40	5310	28.665	0.5	Pass





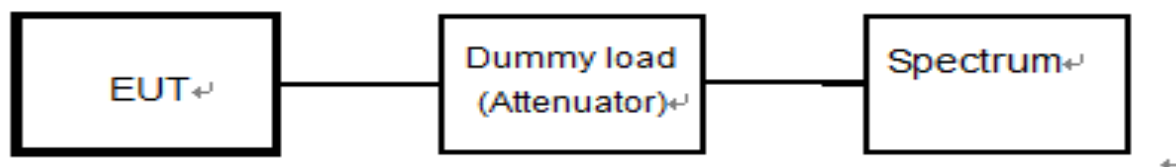






10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

20MHz system	
OBW:18-20MHz or less	OBW:18-20MHz
30MHz~5233.3MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz); 5233.3MHz~5240MHz: $\leq 10-1.8-(6/50)(f-20)$ (-26 ~ -18dBm/MHz); 5240MHz~5249MHz: $\leq 10-1-(8/90)(f-11)$ mW/MHz (-18 ~ -10dBm/MHz); 5249MHz~5250MHz: $\leq 101-(f-9)$ mW/MHz (-10 ~ 0dBm/MHz); 5350MHz~26500MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz)	30MHz~5233.3MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz); 5233.3MHz~5240MHz: $\leq 10-1.8-(6/50)(f-20)$ (-26 ~ -18dBm/MHz); 5240MHz~5249MHz: $\leq 10-1-(8/90)(f-11)$ mW/MHz (-18 ~ -10dBm/MHz); 5249MHz~5249.8MHz: $\leq 101-(f-9)$ mW/MHz (-10 ~ -2dBm/MHz); 5249.8MHz~5250MHz: $\leq 101-(8/3)(f-9.75)$ mW/MHz (-2 ~ 3.3dBm/MHz); 5350MHz~26500MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz)
40MHz system	80MHz system
30MHz~5221.6MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz); 5221.6MHz~5230MHz: $\leq 10-(3/50)(f-40)-1.8+\log(1/2)$ mW/MHz (-26 ~ -21dBm/MHz); 5230MHz~5249MHz: $\leq 10-(8/190)(f-21)-1+\log(1/2)$ mW/MHz (-21 ~ -13dBm/MHz); 5249MHz~5250MHz: $\leq 10-(f-20)+\log(1/2)$ mW/MHz (-13 ~ -3dBm/MHz); 5350MHz~5358.4MHz: $\leq 15\mu\text{W}/\text{MHz}$ (-18.24dBm/MHz); 5358.4MHz~26500MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz)	30MHz~5203.3MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz); 5203.3MHz~5210MHz: $\leq 10-(3/100)(f-80)-1.8+\log(1/4)$ mW/MHz (-26 ~ -24dBm/MHz); 5210MHz~5249MHz: $\leq 10-(8/390)(f-41)-1+\log(1/4)$ mW/MHz (-24 ~ -16dBm/MHz); 5249MHz~5250MHz: $\leq 10-(f-40)+\log(1/4)$ mW/MHz (-16 ~ -6dBm/MHz); 5350MHz~5376.8MHz: $\leq 15\mu\text{W}/\text{MHz}$ (-18.24dBm/MHz); 5376.8MHz~26500MHz: $\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/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	Below 1GHz: 1 MHz Above 1Ghz: 1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.4 Test Procedure

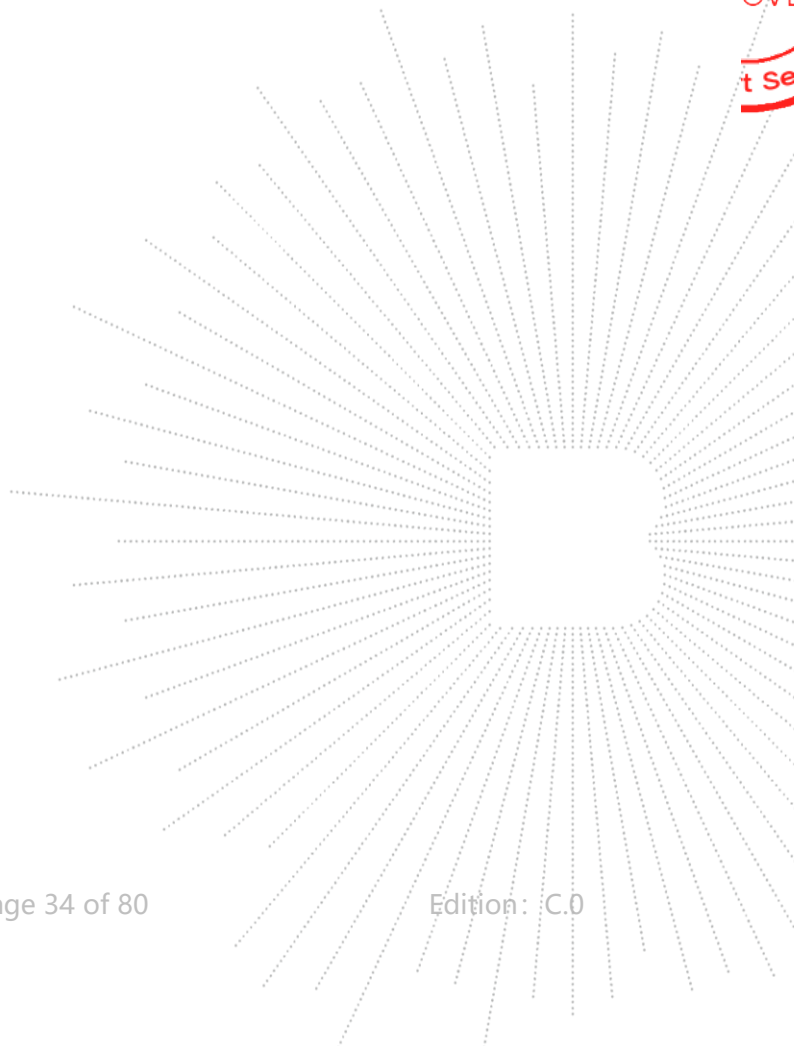
1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB: 100 KHz / VB:100KHz/Above 1GHz RB:1MHz / VB:1MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto/Sweep Mode: Continuous sweep / Detect mode: Positive peak/ Trace mode: Max hold

10.5 Test Result

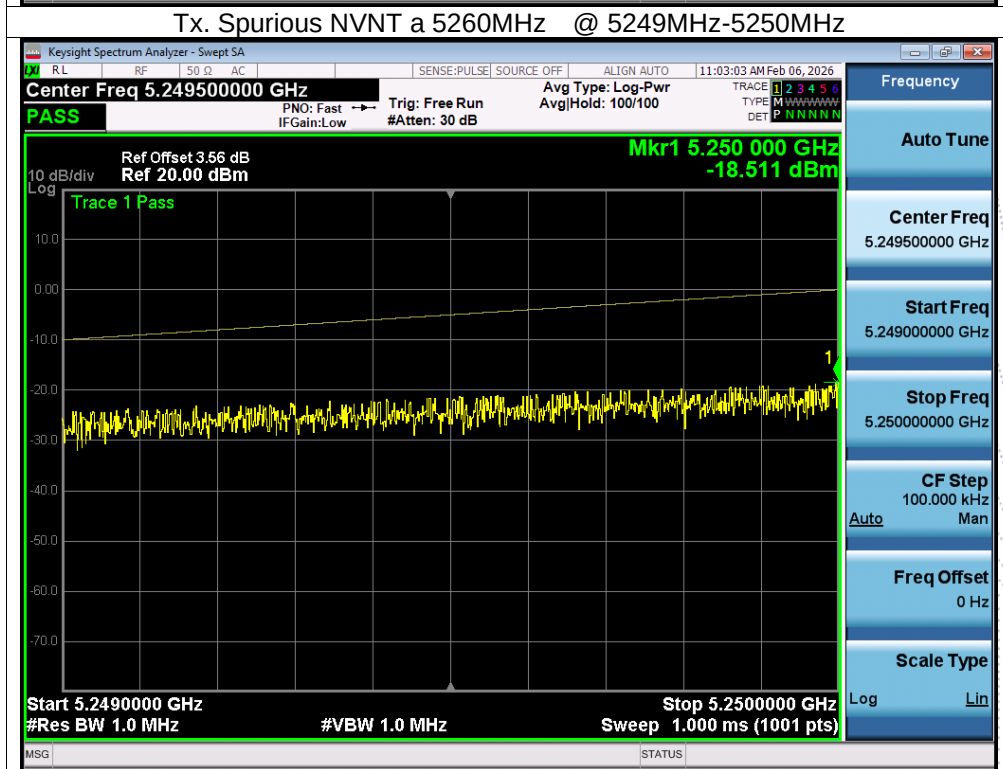
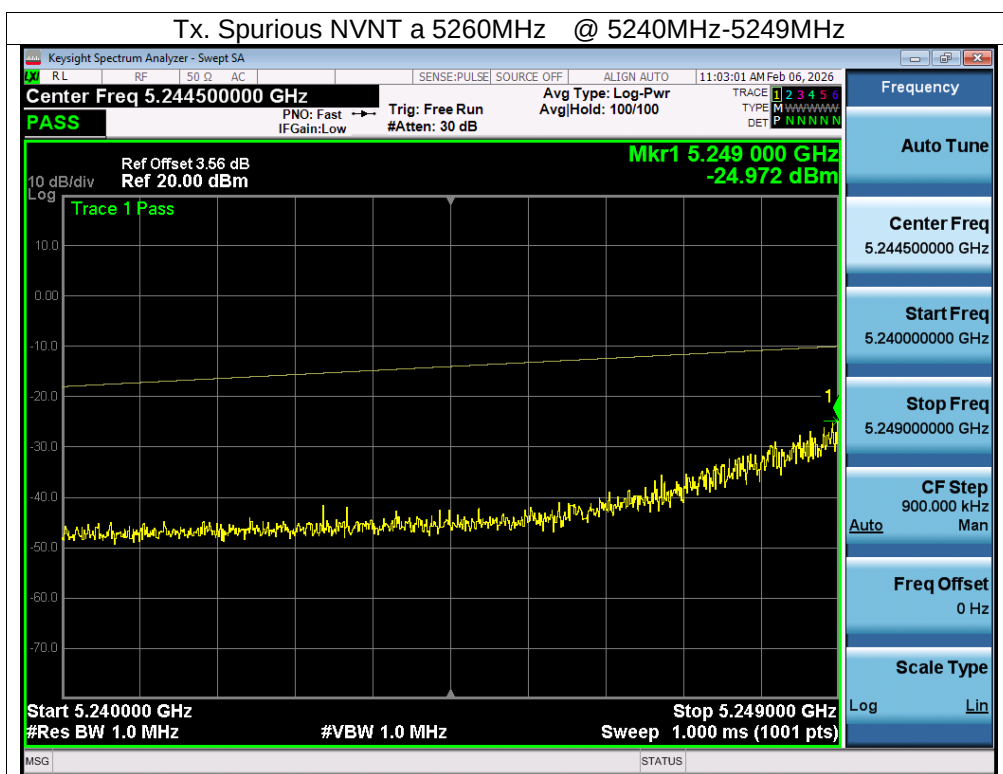
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	a	5260	30-5233.3	5176.06	-40.74	-26	-26	Pass
NVNT	a	5260	5233.3-5240	5239.34	-44.41	-26	-18	Pass
NVNT	a	5260	5240-5249	5249	-24.97	-18	-10	Pass
NVNT	a	5260	5249-5250	5250	-18.51	-10	0	Pass
NVNT	a	5260	5350-26000	24327.35	-33.81	-26	-26	Pass
NVNT	a	5280	30-5233.3	3698.33	-42.46	-26	-26	Pass
NVNT	a	5280	5233.3-5240	5237.37	-44.53	-26	-18	Pass
NVNT	a	5280	5240-5249	5240.42	-45.1	-18	-10	Pass
NVNT	a	5280	5249-5250	5249.34	-44.4	-10	0	Pass
NVNT	a	5280	5350-26000	25958.7	-34.05	-26	-26	Pass
NVNT	a	5320	30-5233.3	3687.92	-43.19	-26	-26	Pass
NVNT	a	5320	5233.3-5240	5237.49	-44.29	-26	-18	Pass
NVNT	a	5320	5240-5249	5247.61	-44.29	-18	-10	Pass
NVNT	a	5320	5249-5250	5249.94	-44.71	-10	0	Pass
NVNT	a	5320	5350-26000	25876.1	-33.69	-26	-26	Pass
NVNT	n20	5260	30-5233.3	3682.72	-42.51	-26	-26	Pass
NVNT	n20	5260	5233.3-5240	5237.26	-44.77	-26	-18	Pass
NVNT	n20	5260	5240-5249	5249	-24.17	-18	-10	Pass
NVNT	n20	5260	5249-5250	5249.97	-16.57	-10	0	Pass
NVNT	n20	5260	5350-26000	25896.75	-34.45	-26	-26	Pass
NVNT	n20	5280	30-5233.3	3703.53	-43.19	-26	-26	Pass
NVNT	n20	5280	5233.3-5240	5235.75	-44.69	-26	-18	Pass
NVNT	n20	5280	5240-5249	5242.15	-44.55	-18	-10	Pass
NVNT	n20	5280	5249-5250	5249.83	-44.81	-10	0	Pass
NVNT	n20	5280	5350-26000	25442.45	-33.61	-26	-26	Pass
NVNT	n20	5320	30-5233.3	3687.92	-42.79	-26	-26	Pass
NVNT	n20	5320	5233.3-5240	5235.36	-44.14	-26	-18	Pass
NVNT	n20	5320	5240-5249	5241.17	-44.52	-18	-10	Pass
NVNT	n20	5320	5249-5250	5249.94	-44.43	-10	0	Pass
NVNT	n20	5320	5350-26000	25050.1	-34.25	-26	-26	Pass
NVNT	n40	5270	30-5221.6	3778.34	-42.62	-26	-26	Pass
NVNT	n40	5270	5221.6-5230	5223.28	-44.21	-26	-21	Pass
NVNT	n40	5270	5230-5249	5247.9	-40.02	-21	-13	Pass
NVNT	n40	5270	5249-5250	5249.95	-32.6	-13	-3	Pass
NVNT	n40	5270	5350-5358.4	5352.45	-45.21	-18	-18	Pass
NVNT	n40	5270	5358.4-26000	25979.36	-34.24	-26	-26	Pass
NVNT	n40	5310	30-5221.6	5065.85	-42.93	-26	-26	Pass

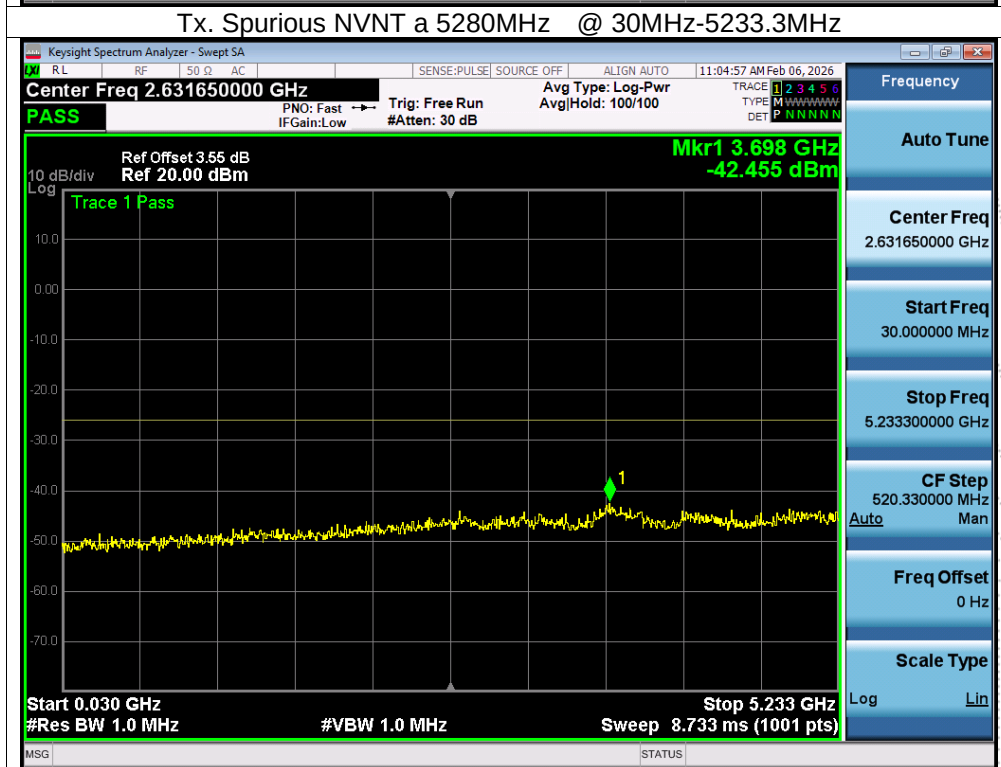
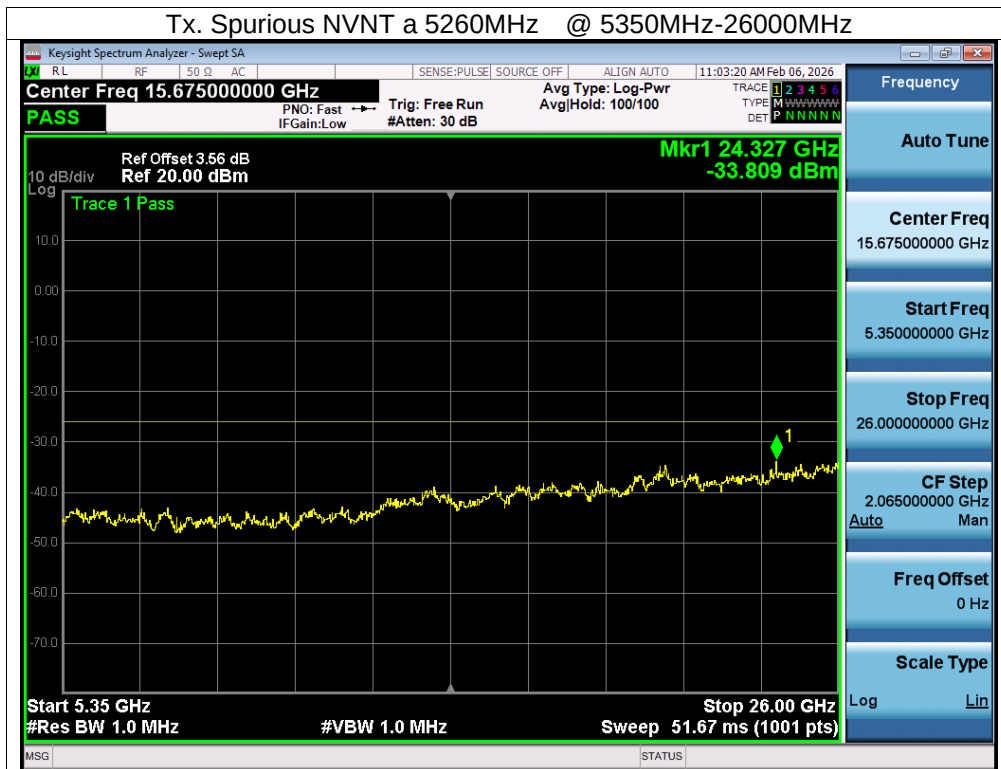
NVNT	n40	5310	5221.6-5230	5223.15	-44.77	-26	-21	Pass
NVNT	n40	5310	5230-5249	5237.62	-44.63	-21	-13	Pass
NVNT	n40	5310	5249-5250	5249.41	-44.07	-13	-3	Pass
NVNT	n40	5310	5350-5358.4	5353.62	-44.72	-18	-18	Pass
NVNT	n40	5310	5358.4-26000	21273.07	-34.11	-26	-26	Pass

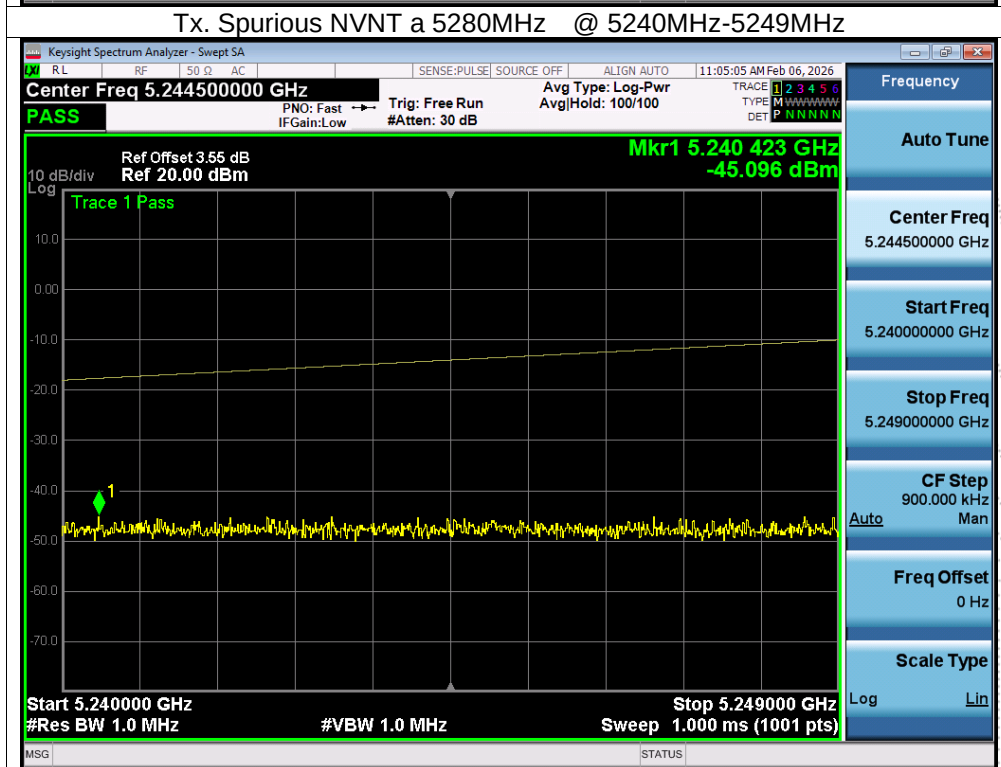
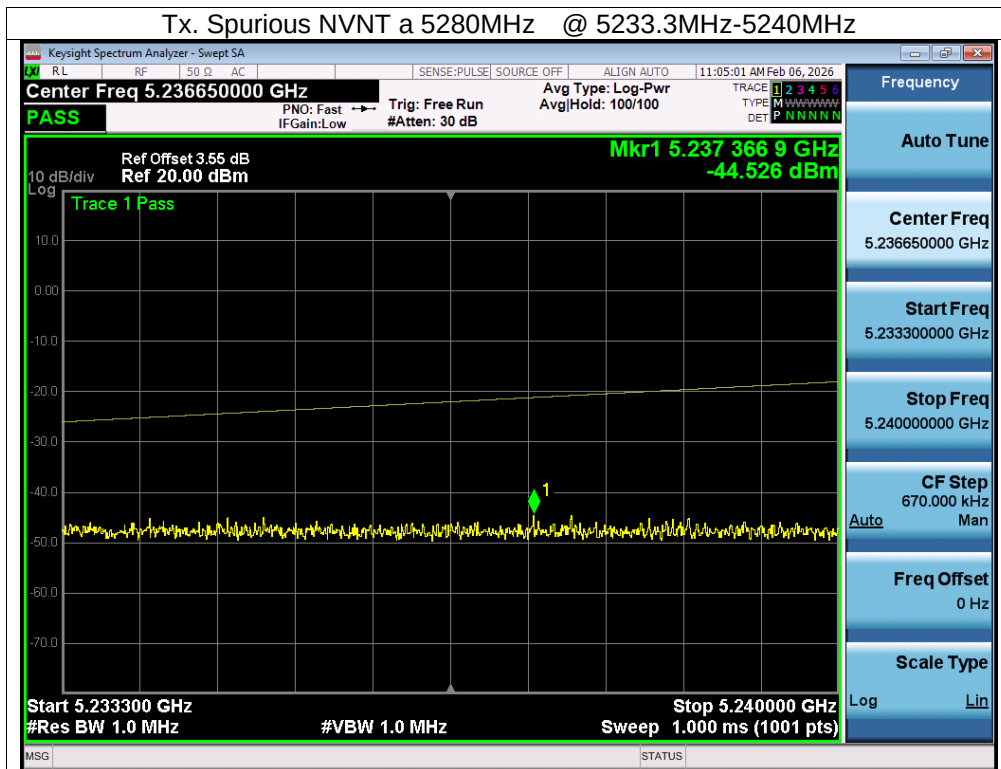


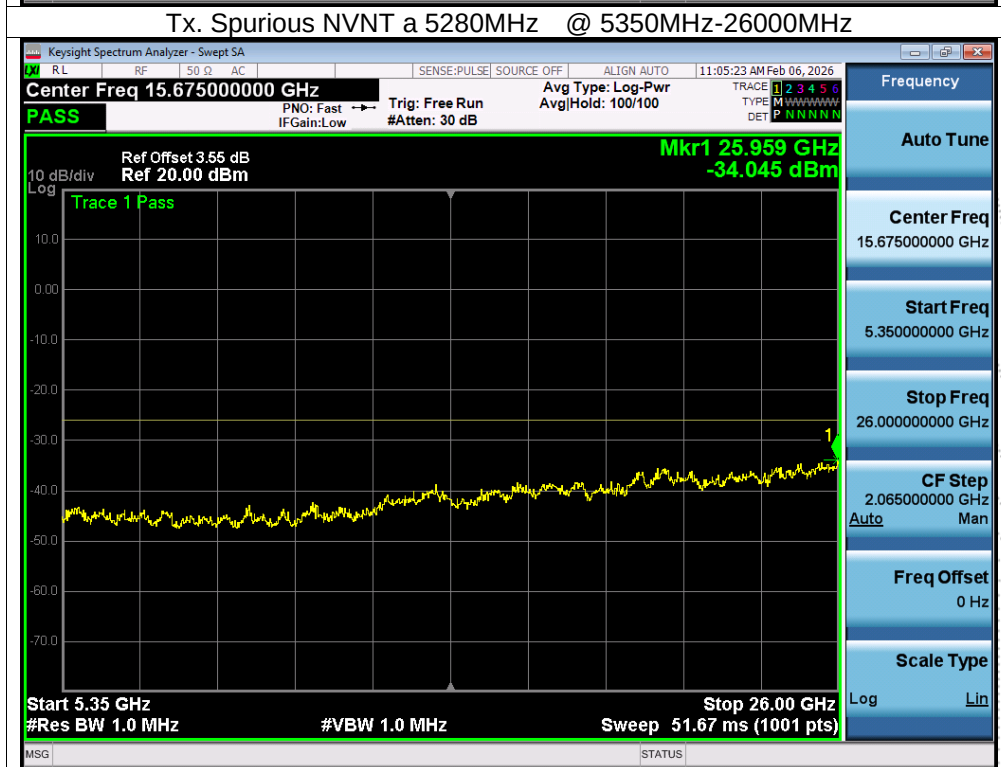
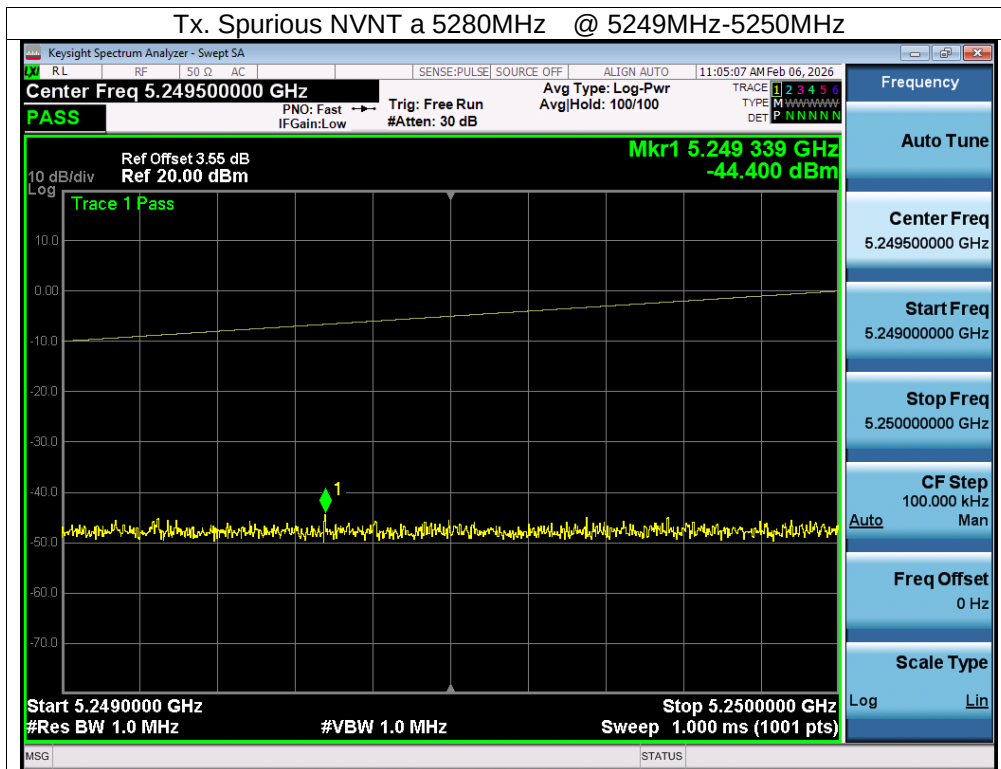


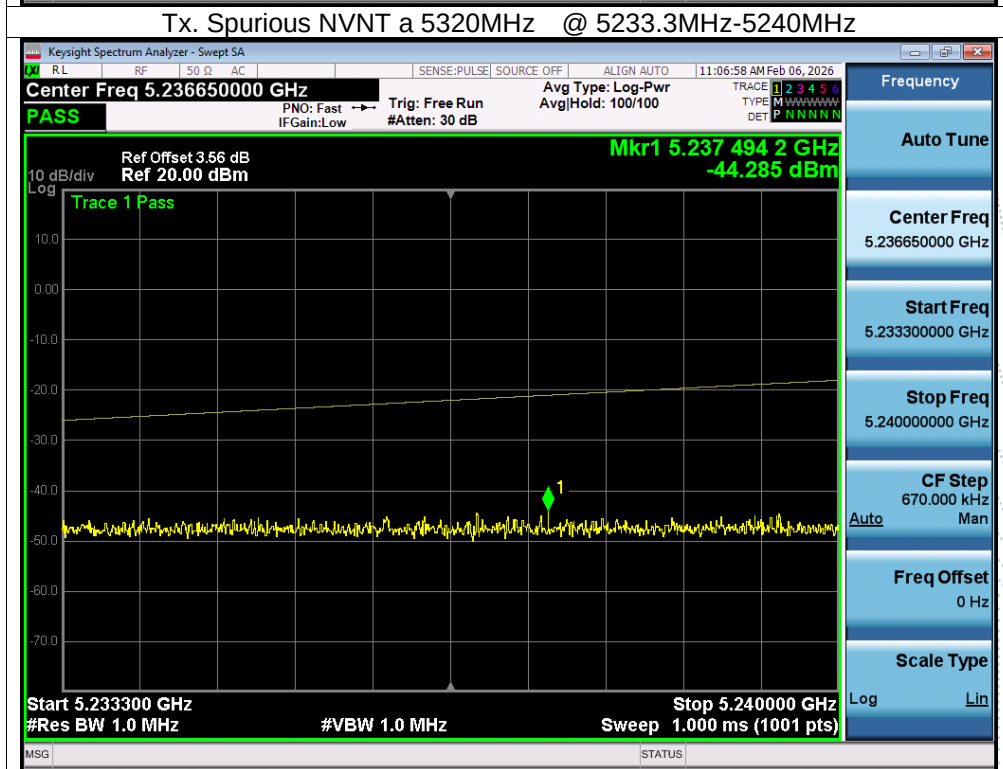
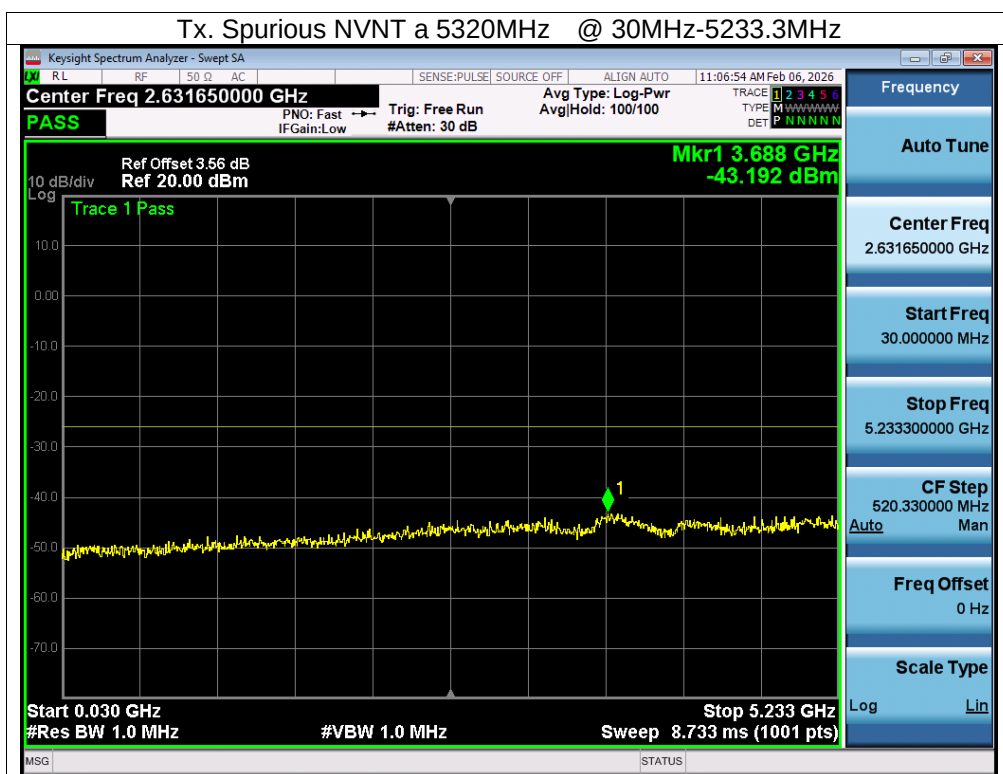


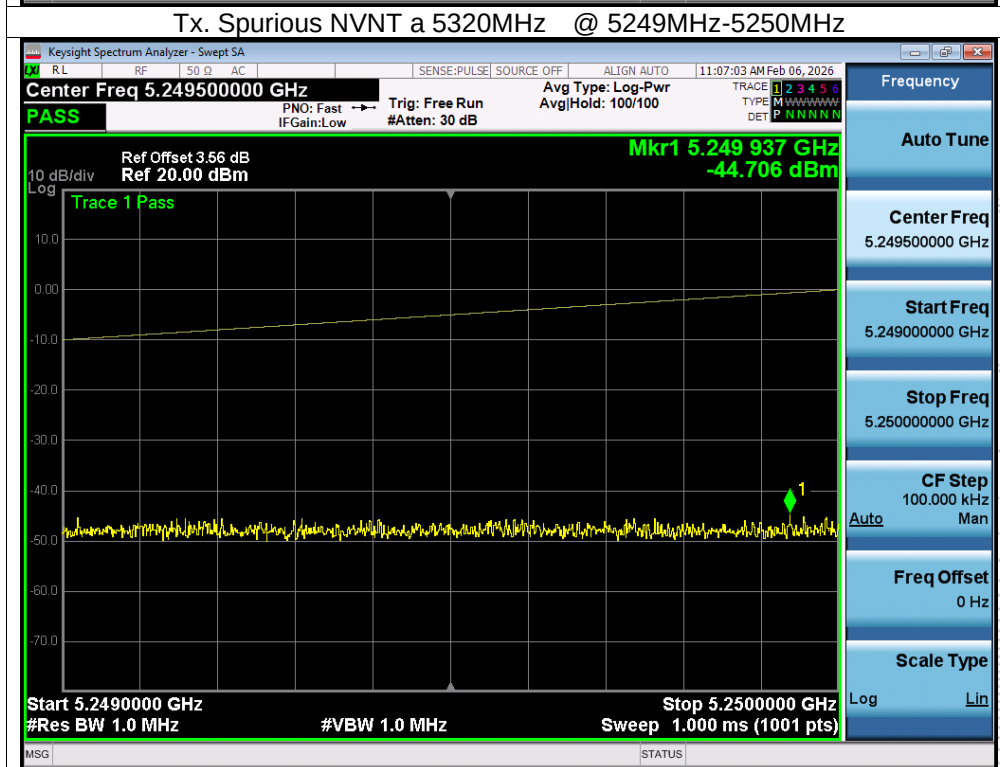
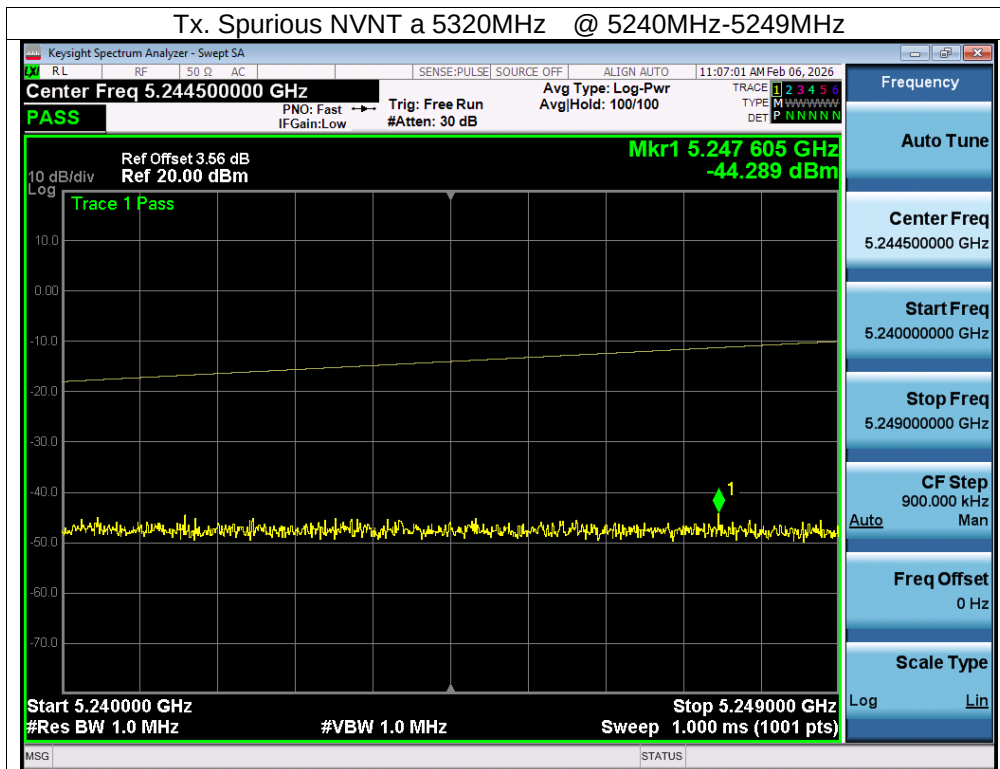
BCTC CO., LTD.

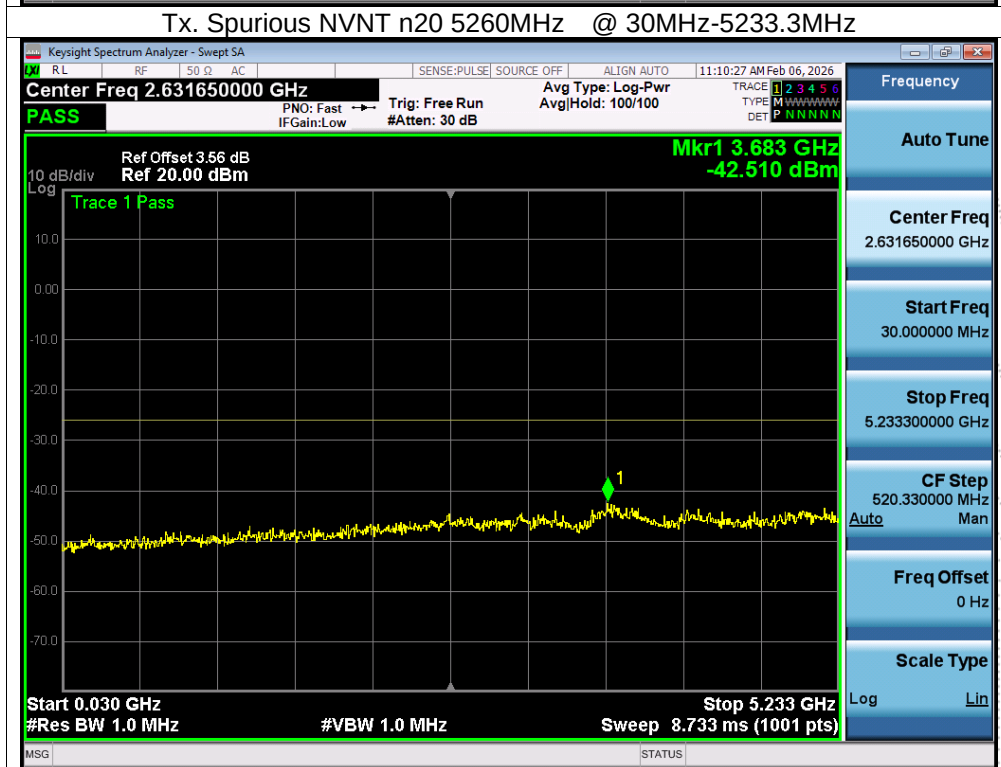
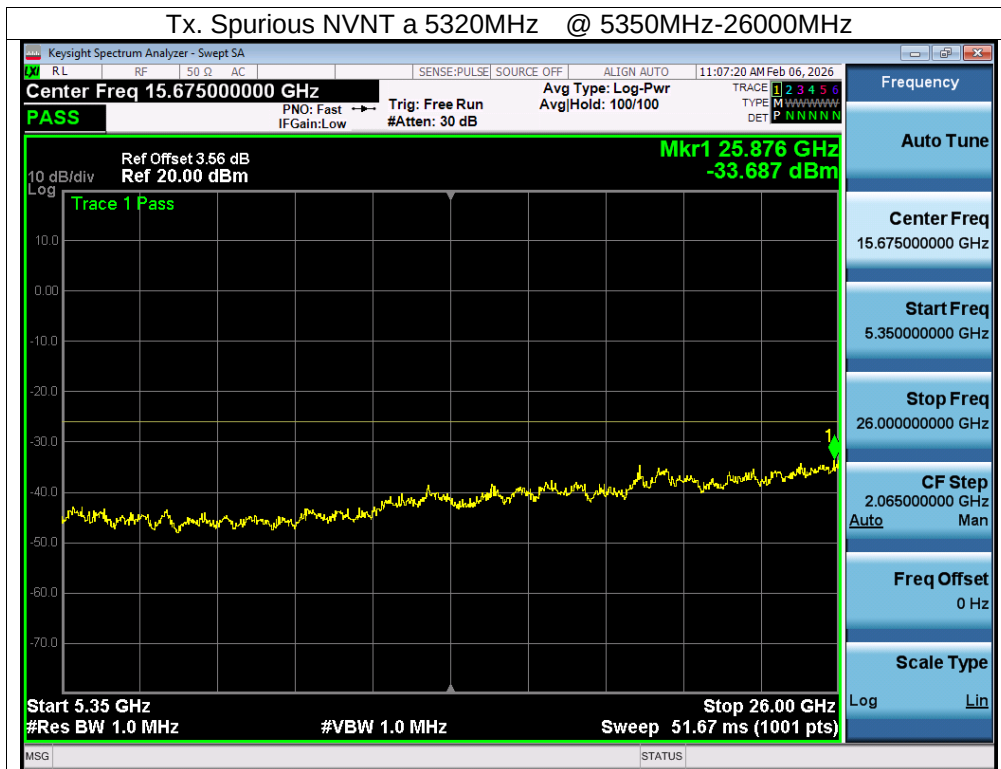


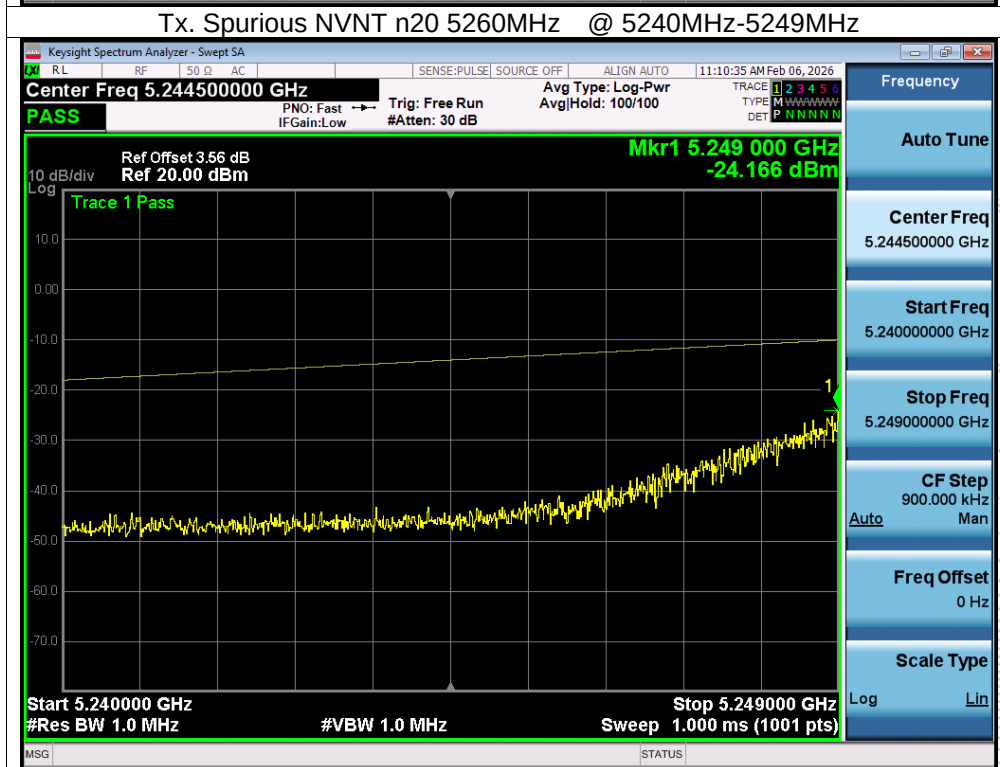
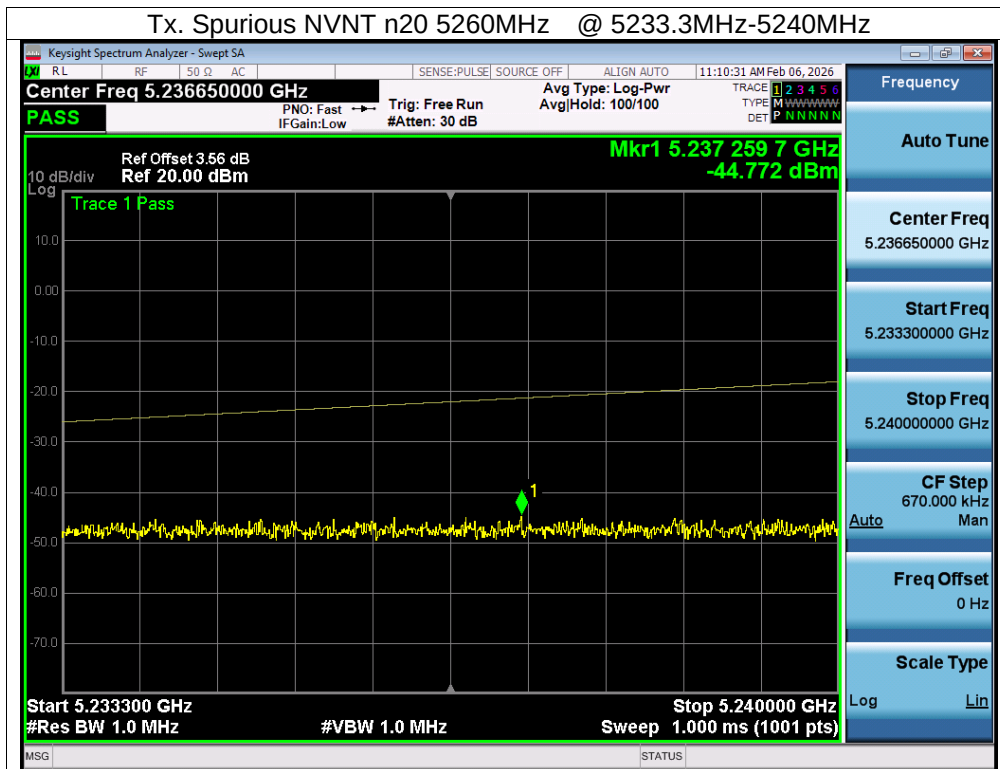


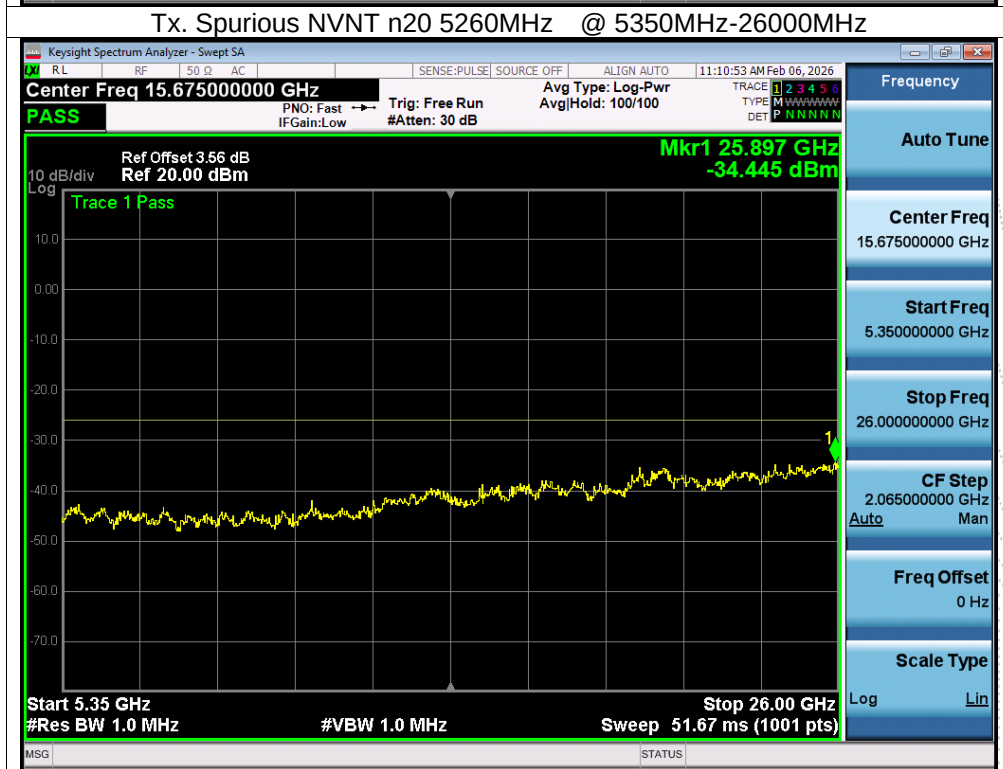
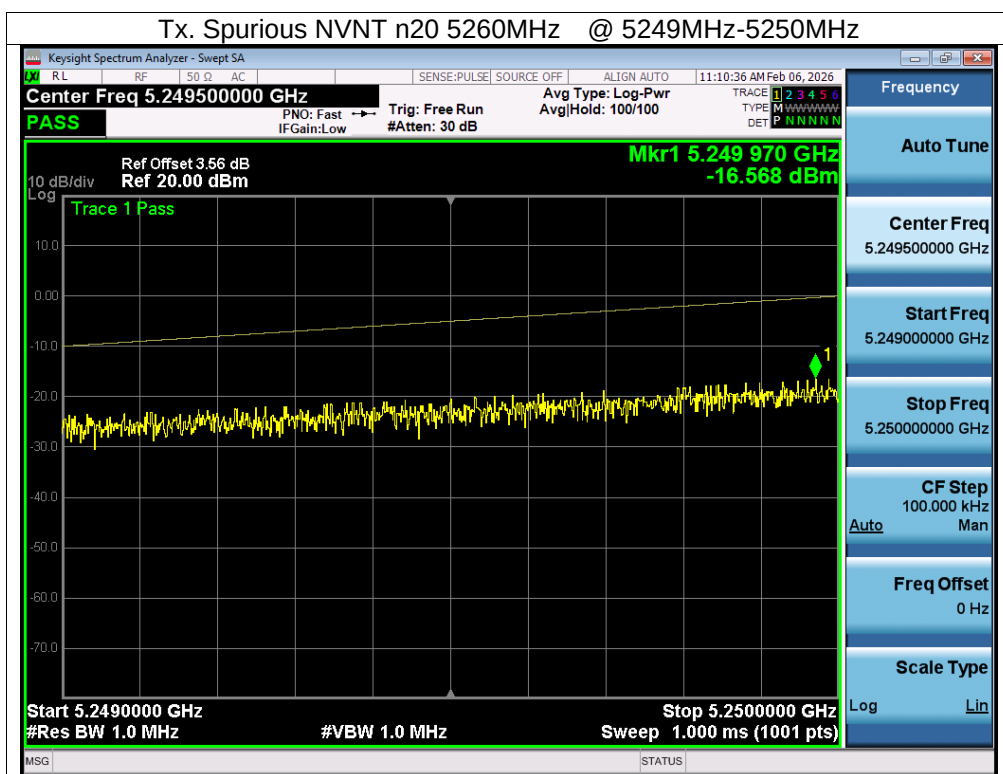


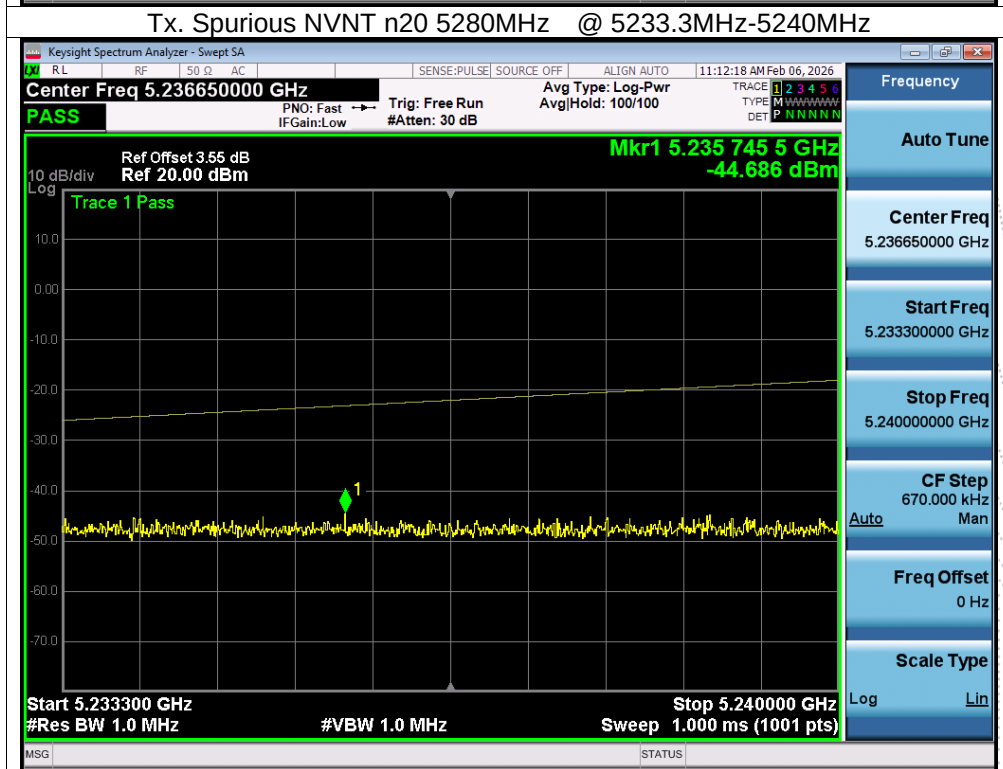
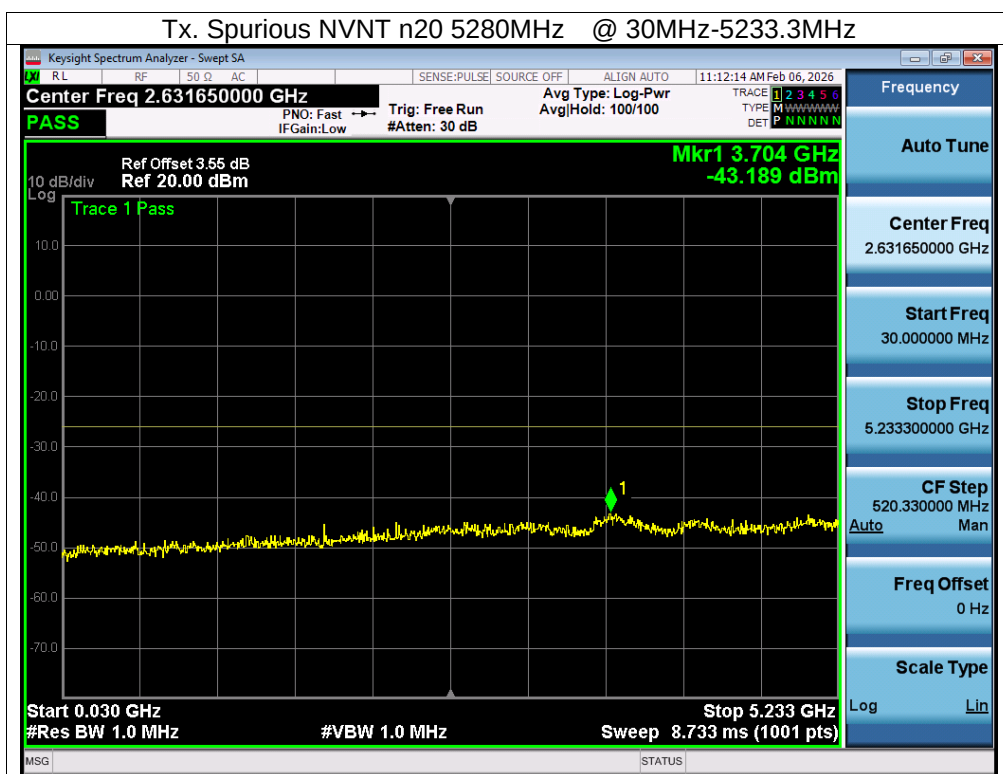


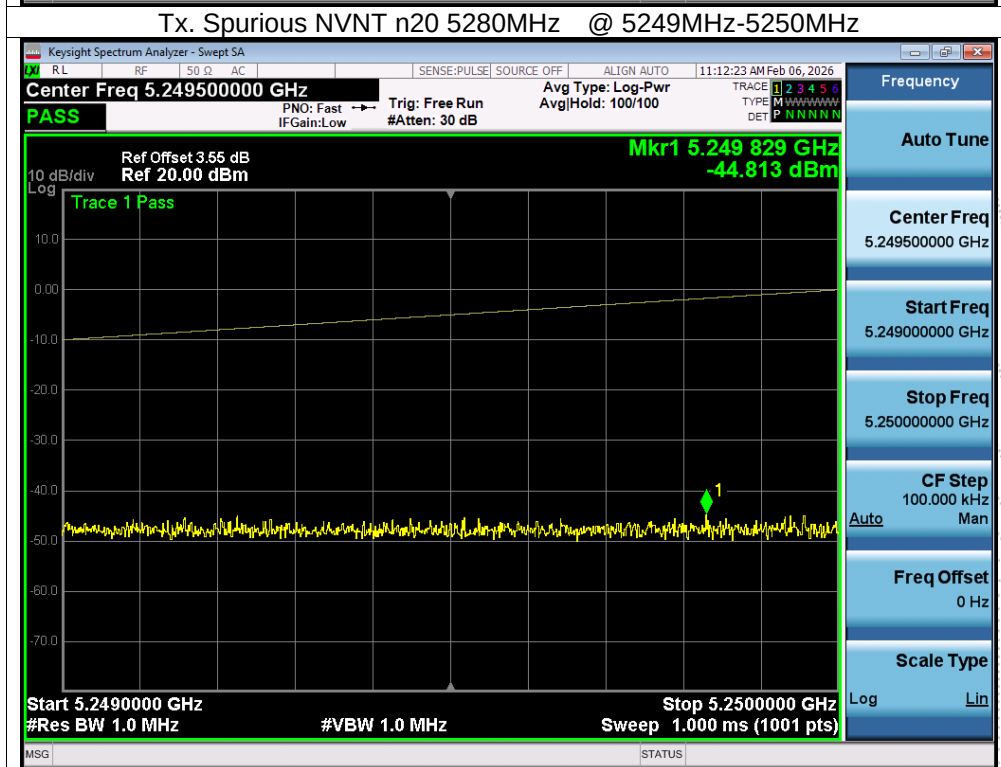
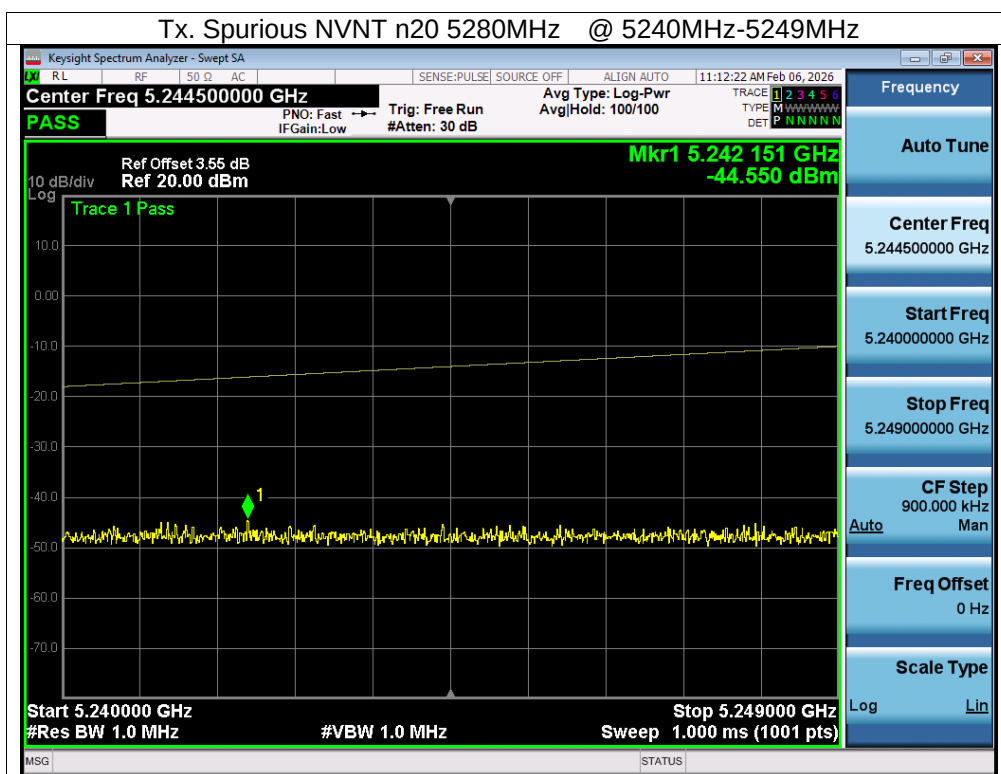


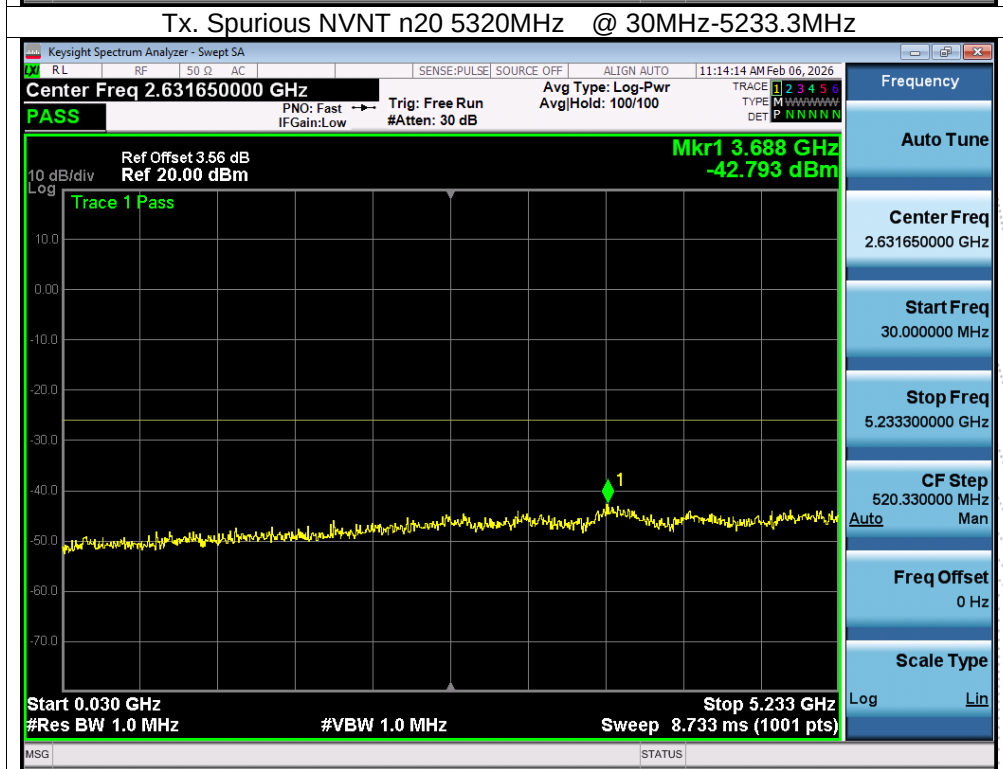
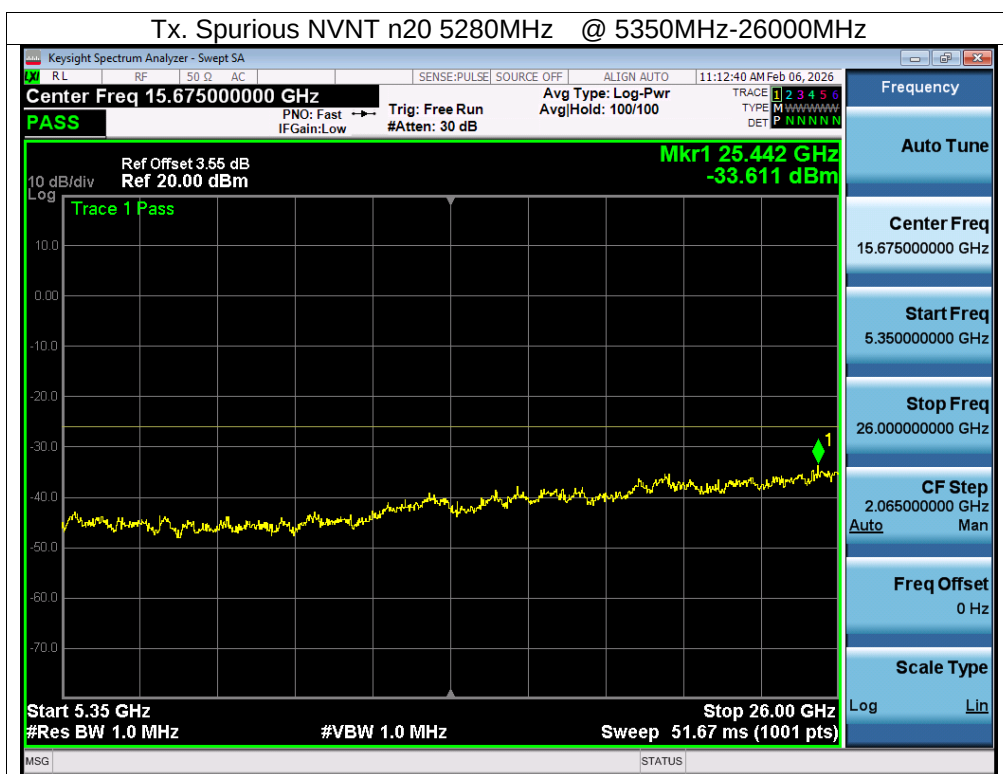


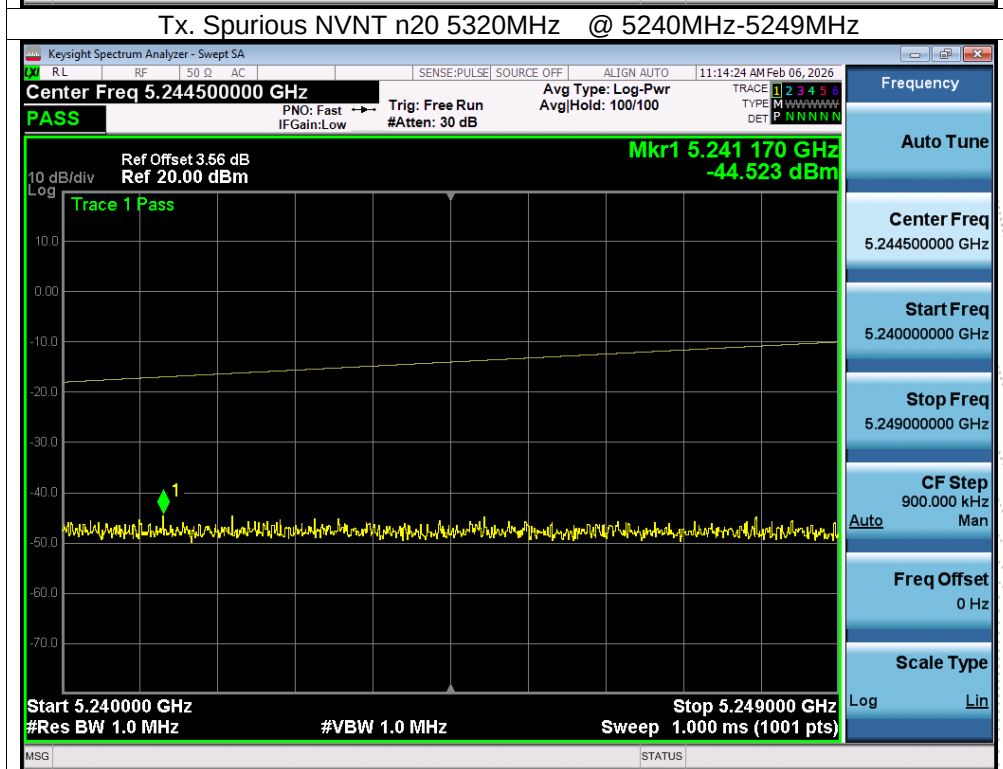
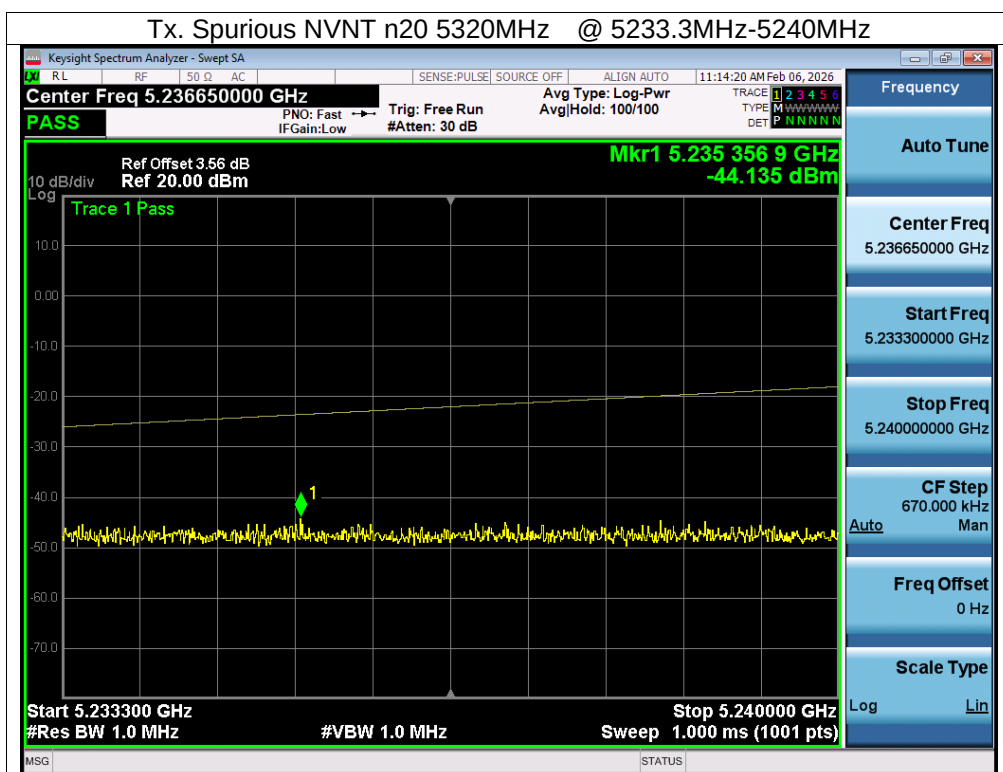




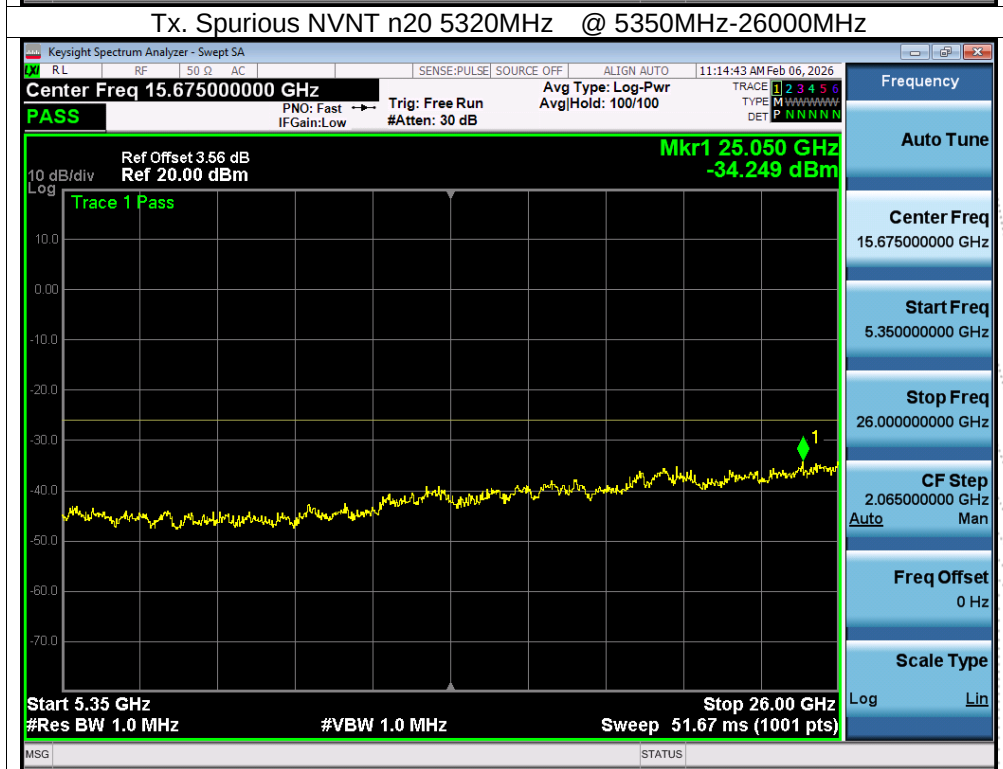
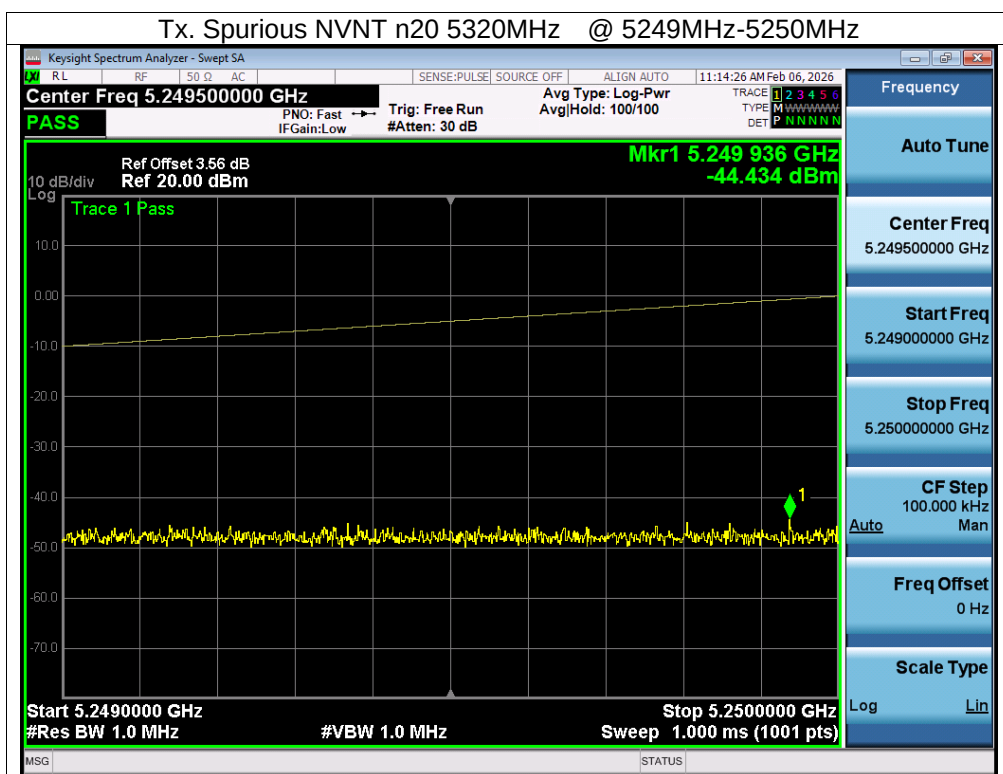


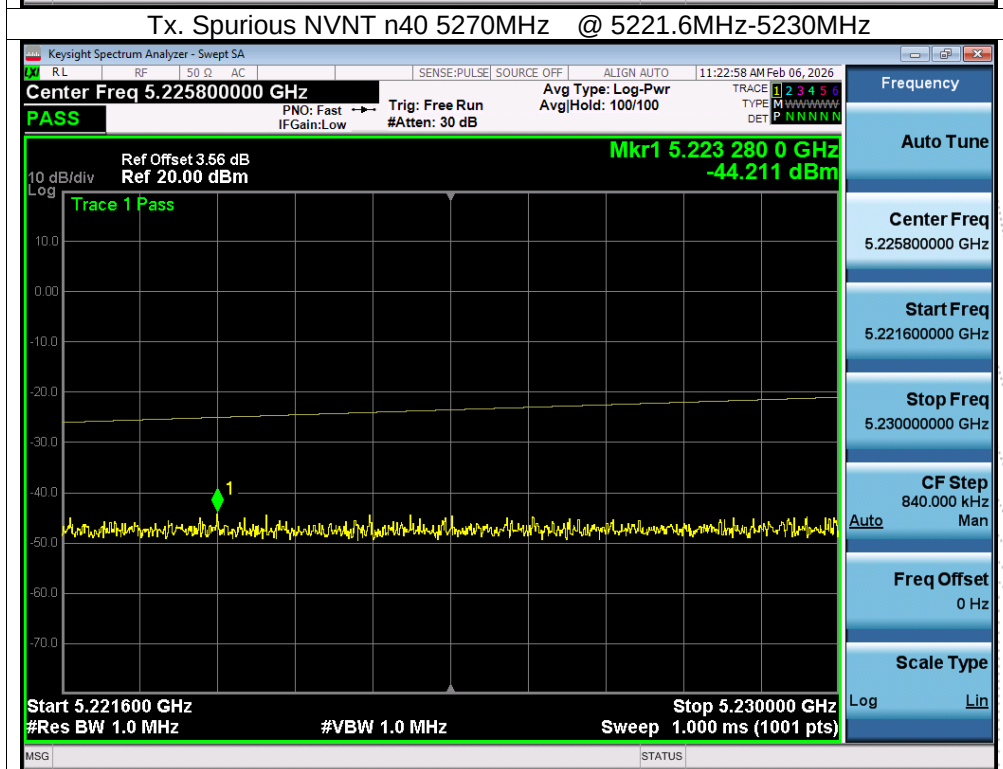
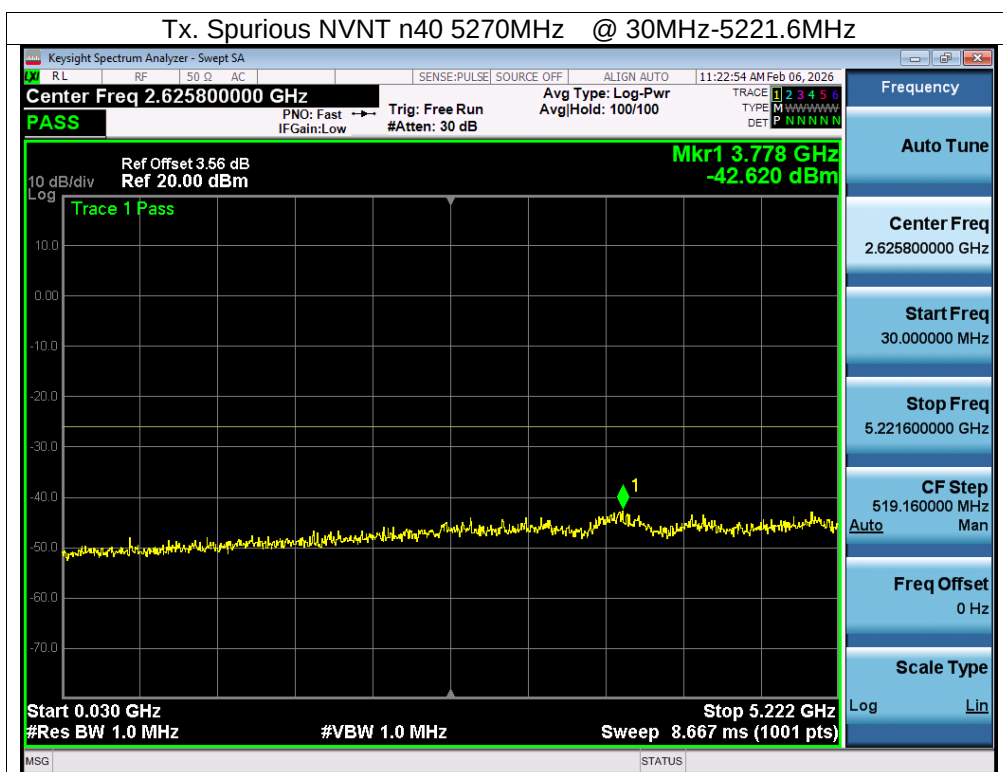


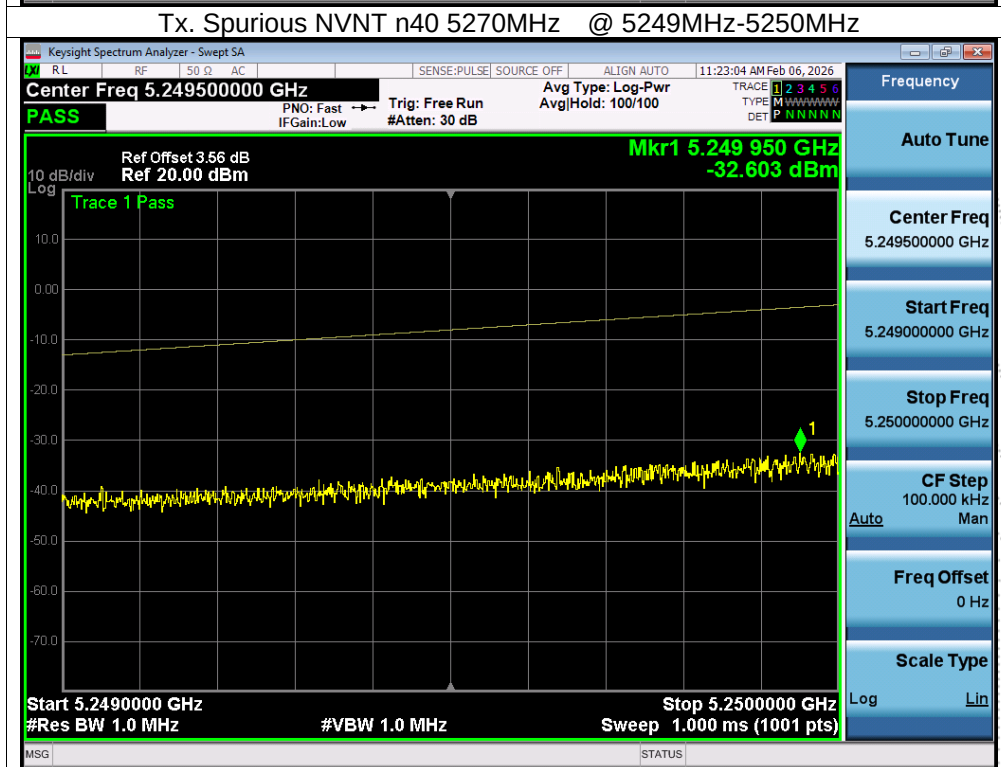
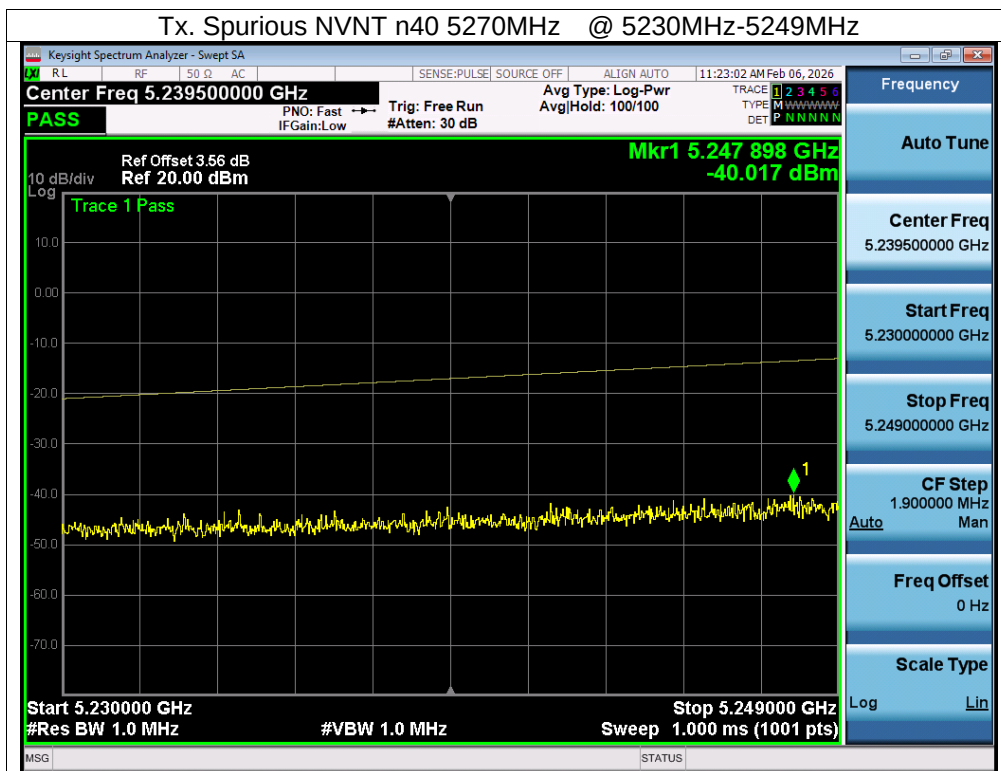


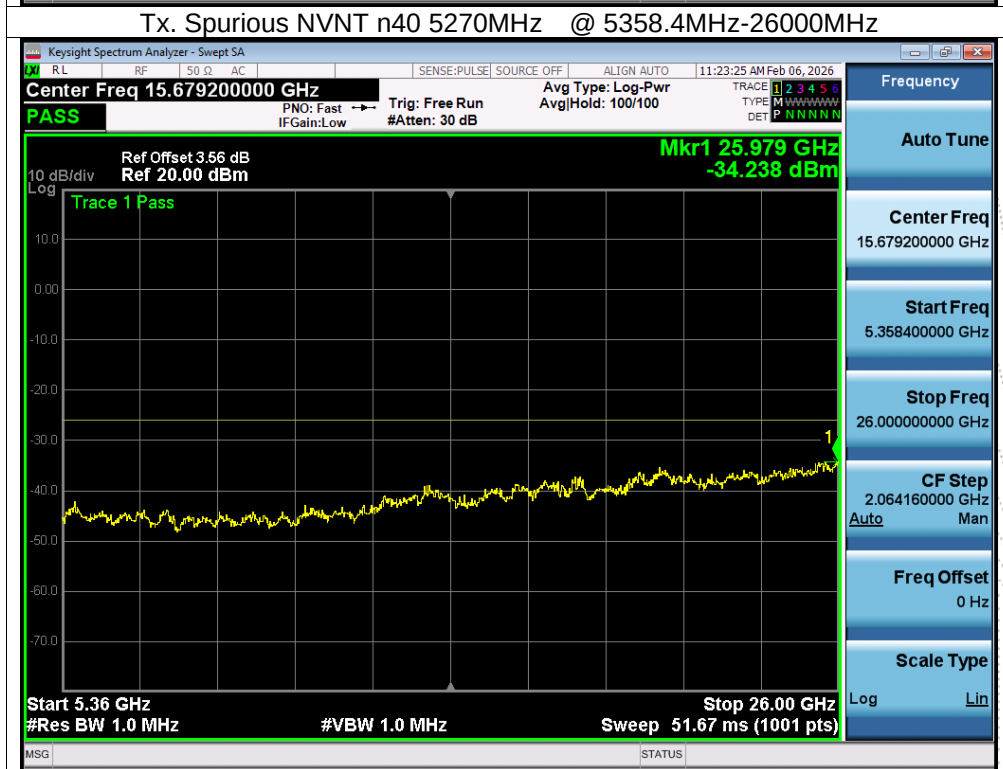
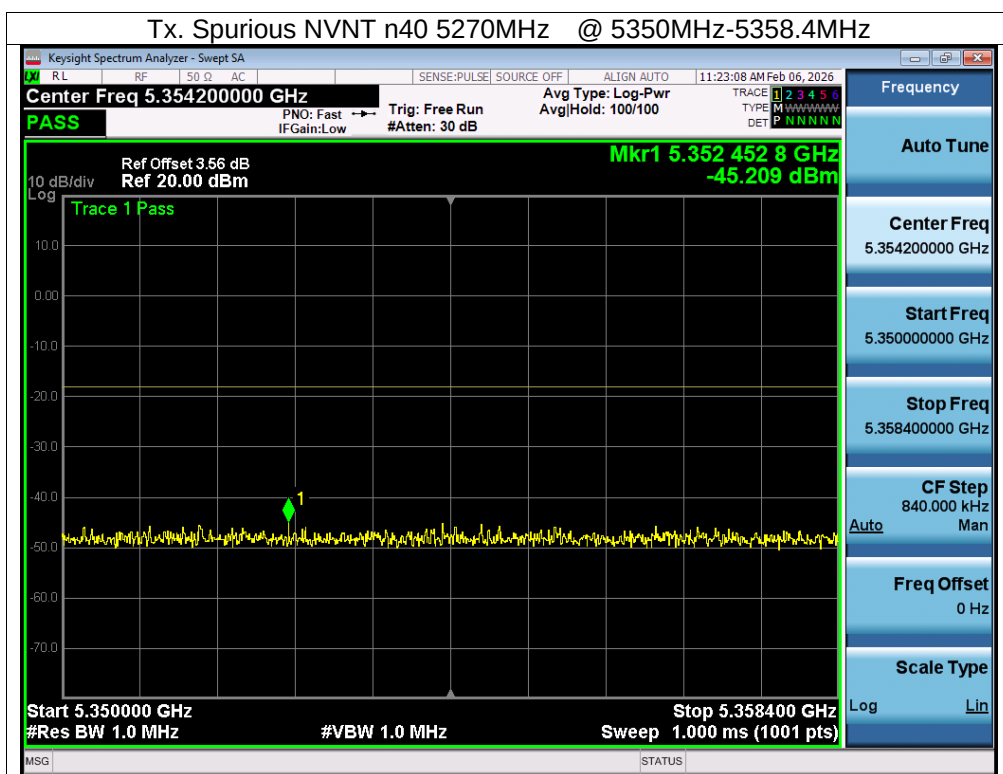


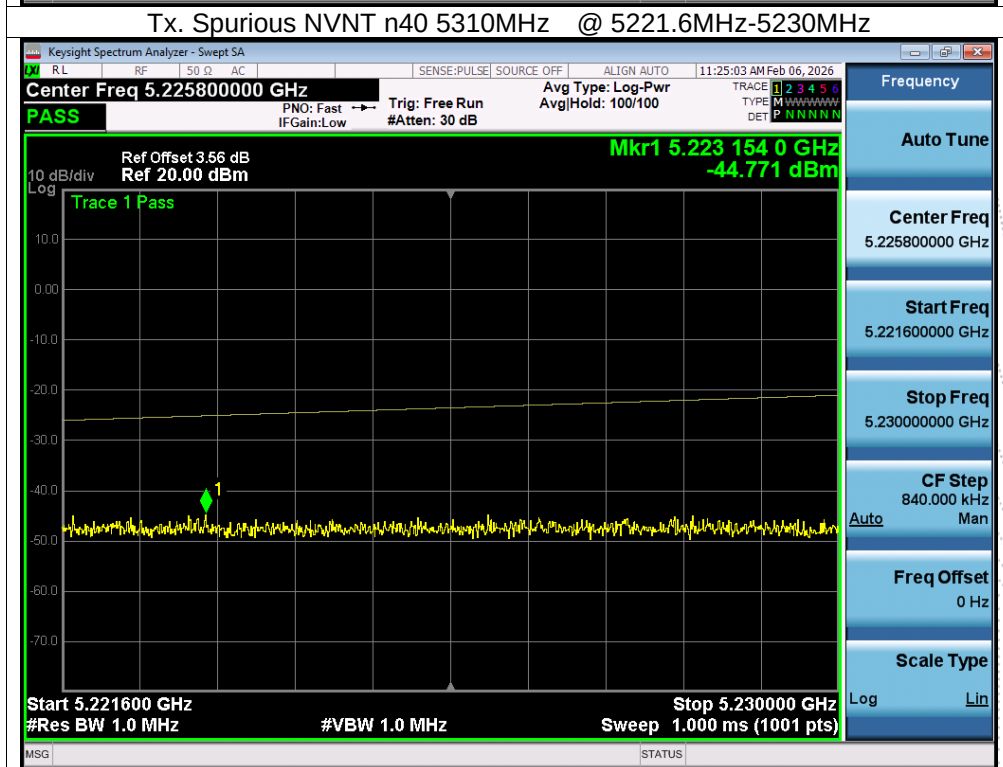
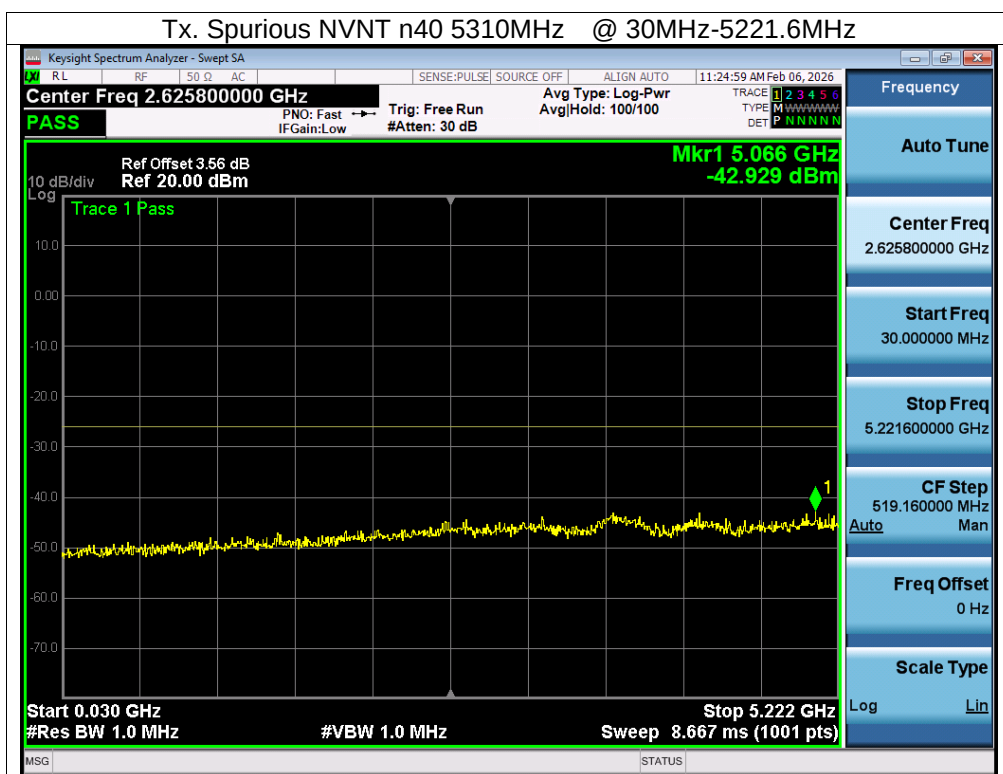
CO., LTD

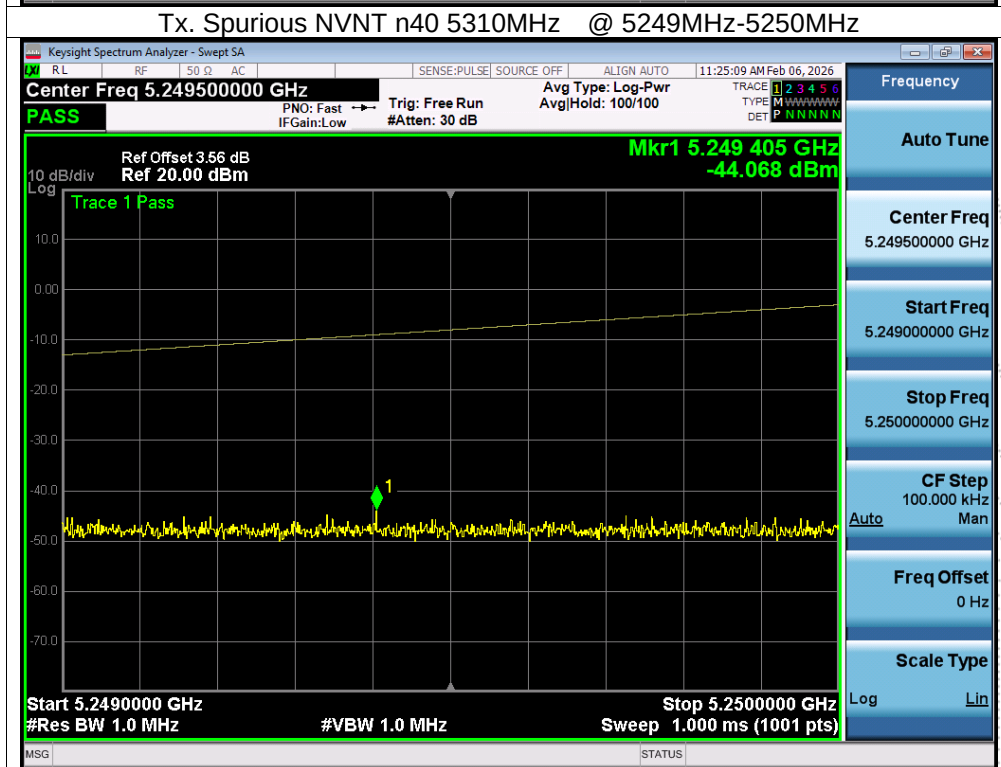
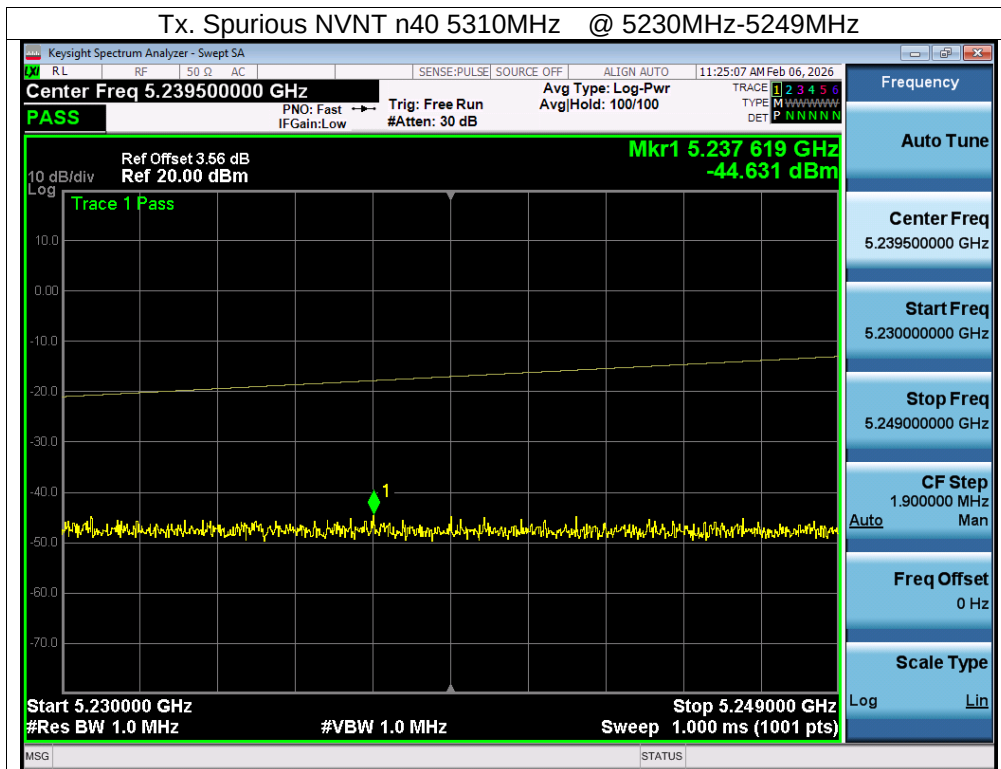


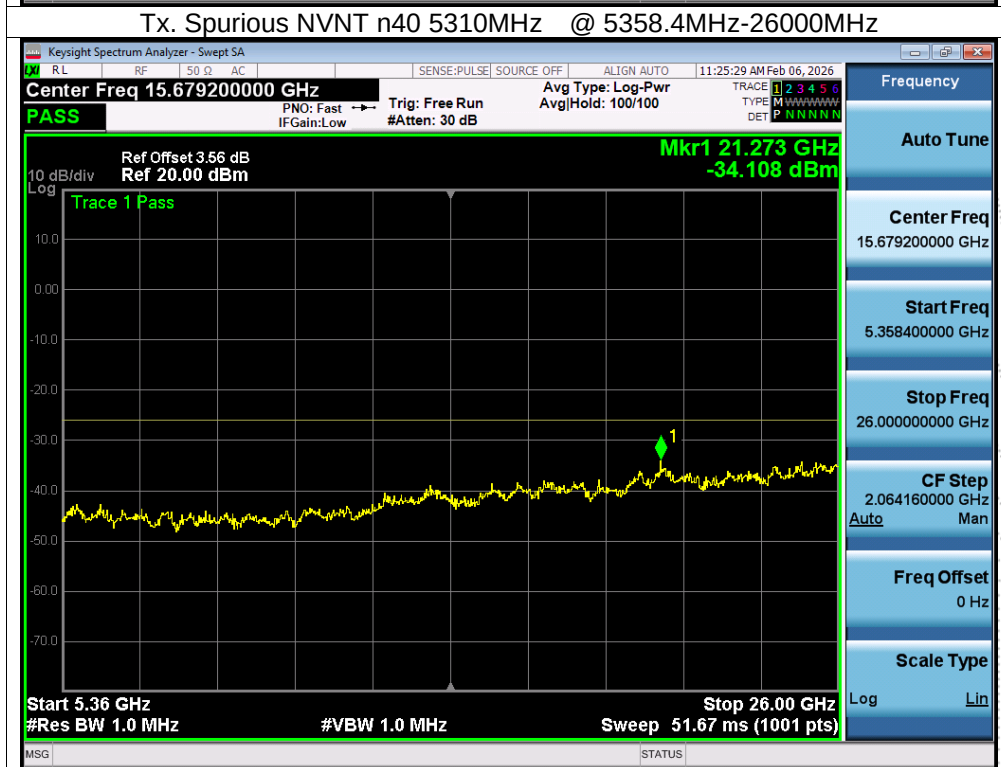
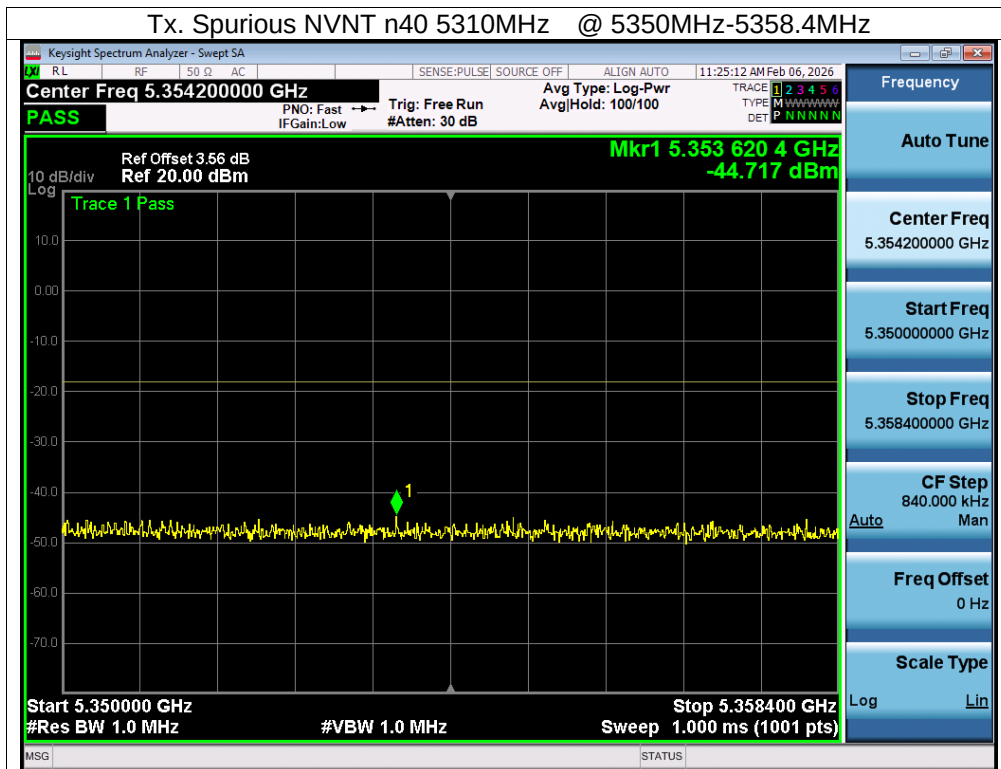






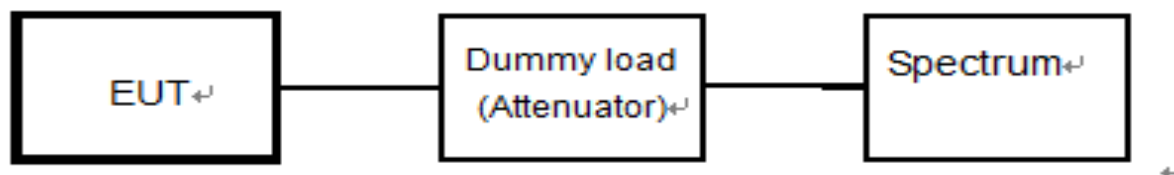






11. Secondary Radiated Emissions Measurement

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

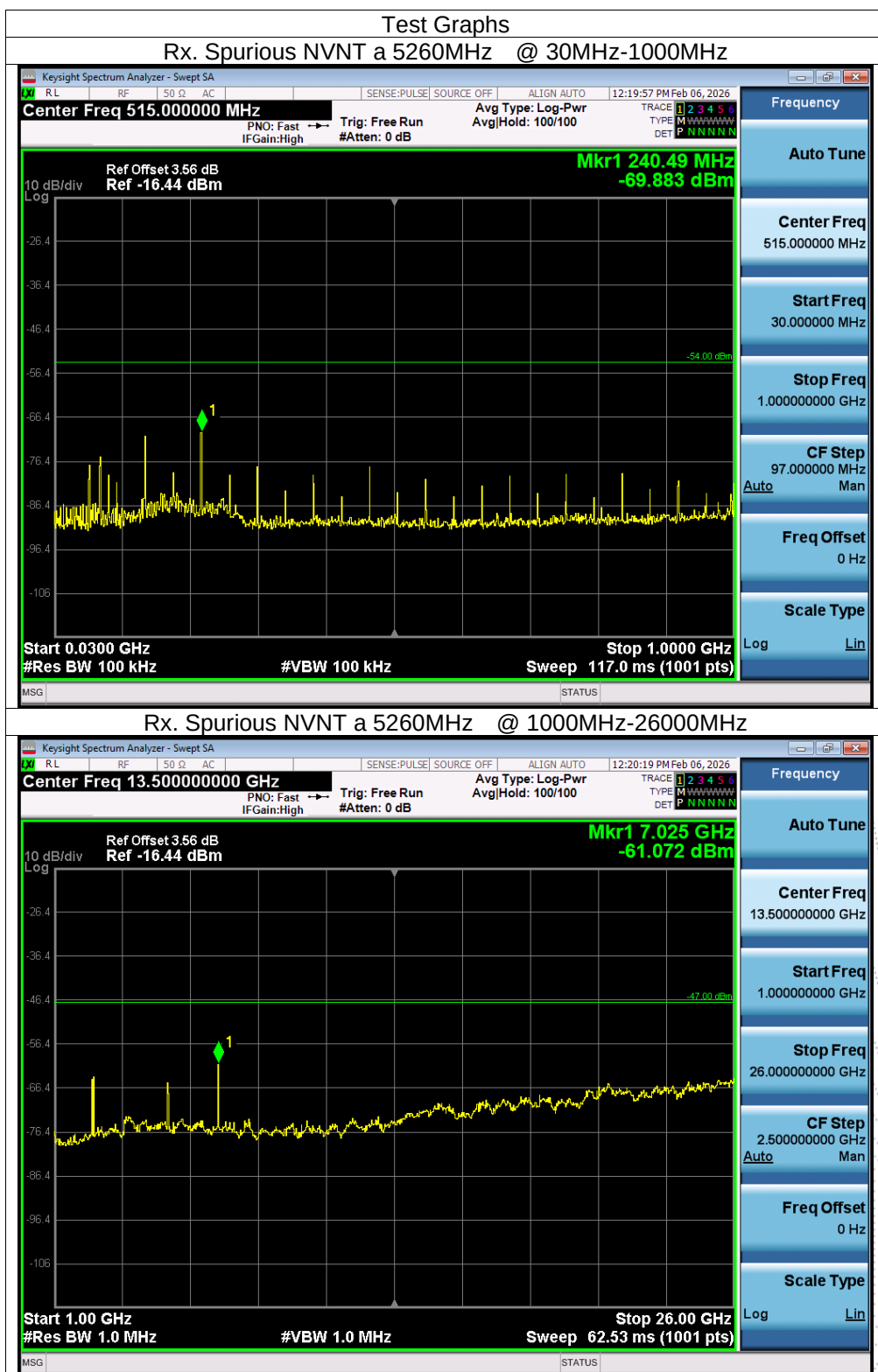
- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold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

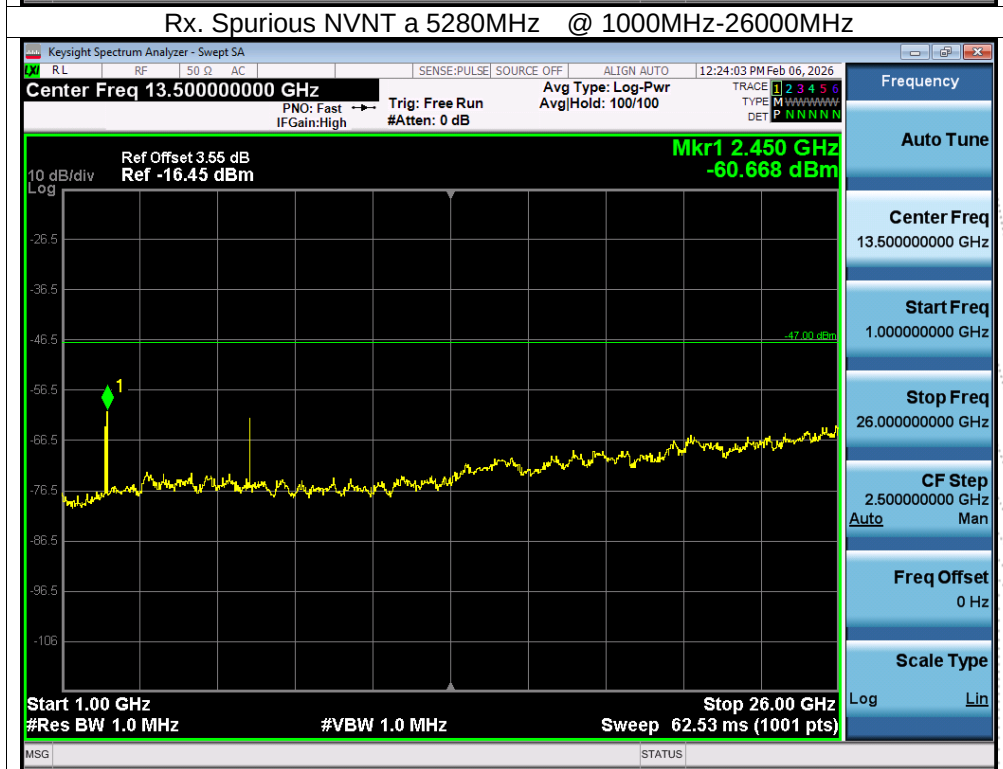
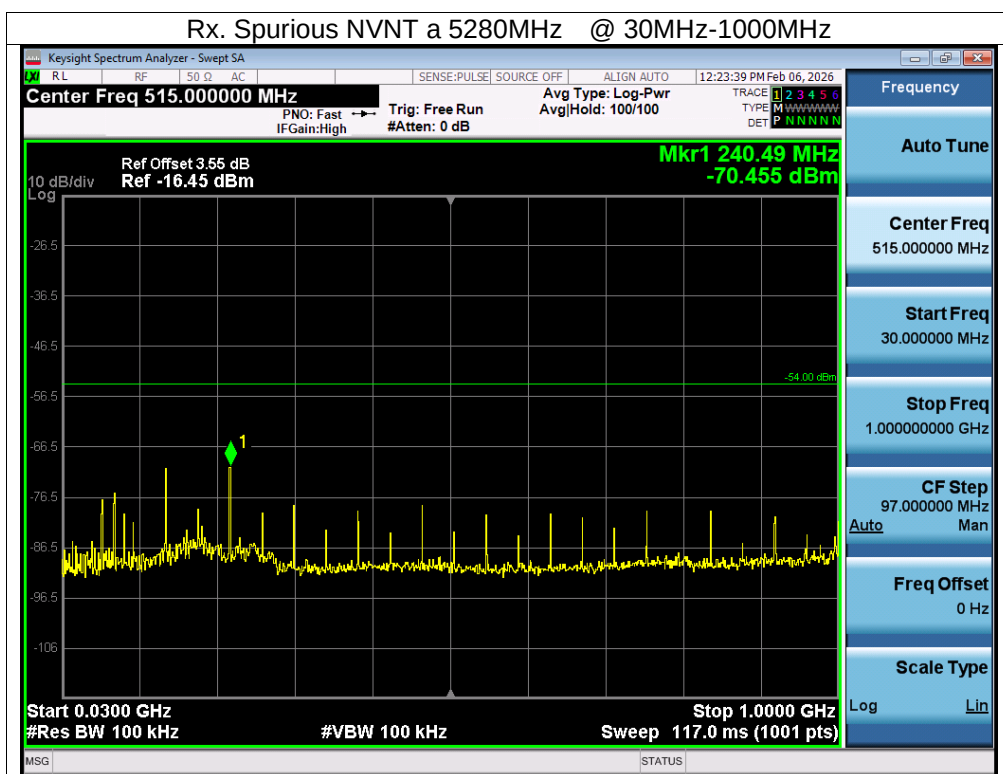
11.5 Test Result

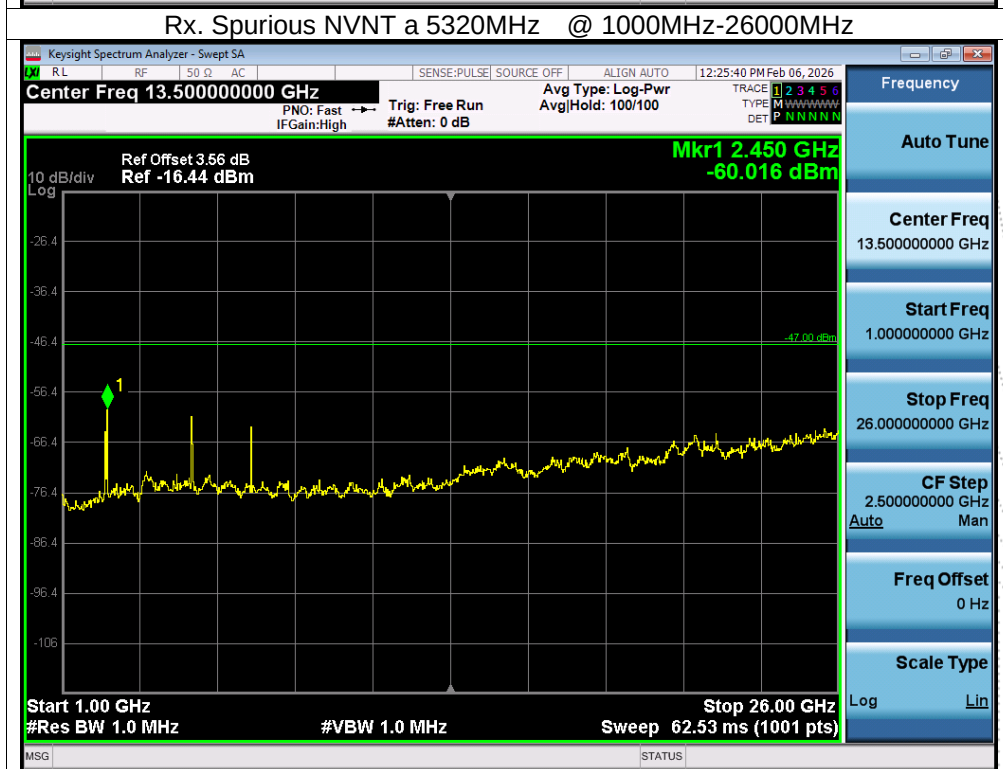
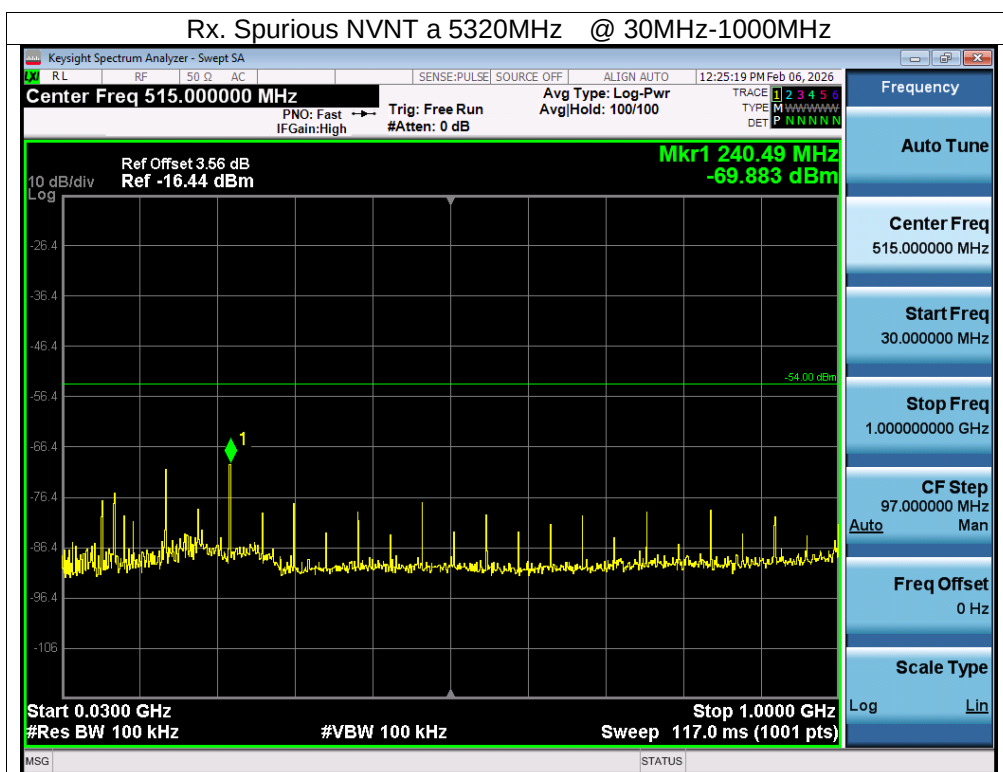
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

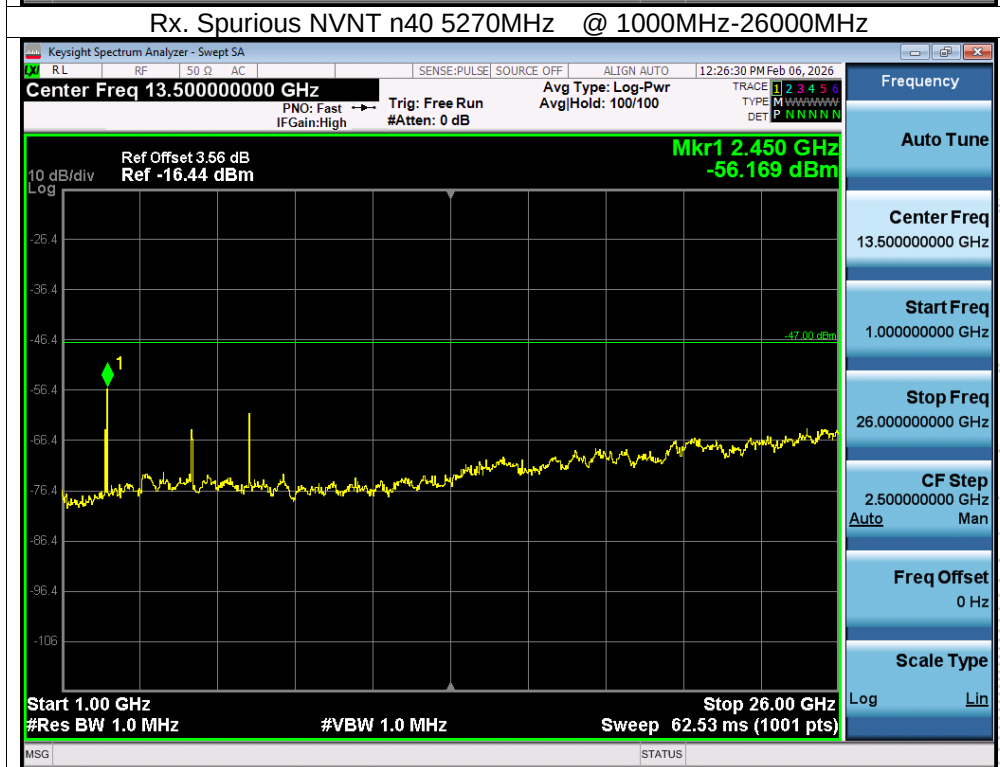
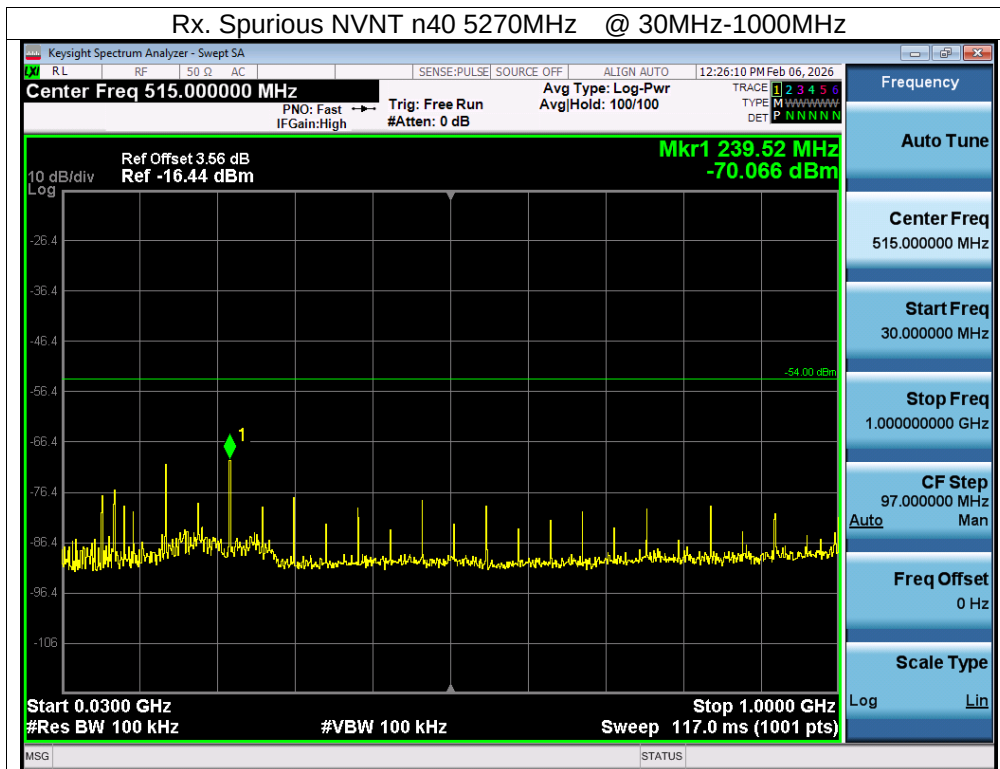
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	30-1000	240.49	-69.88	-54	Pass
NVNT	a	5260	1000-26000	7025	-61.07	-47	Pass
NVNT	a	5280	30-1000	240.49	-70.46	-54	Pass
NVNT	a	5280	1000-26000	2450	-60.67	-47	Pass
NVNT	a	5320	30-1000	240.49	-69.88	-54	Pass
NVNT	a	5320	1000-26000	2450	-60.02	-47	Pass
NVNT	n40	5270	30-1000	239.52	-70.07	-54	Pass
NVNT	n40	5270	1000-26000	2450	-56.17	-47	Pass
NVNT	n40	5310	30-1000	240.49	-70.49	-54	Pass
NVNT	n40	5310	1000-26000	2450	-58.61	-47	Pass

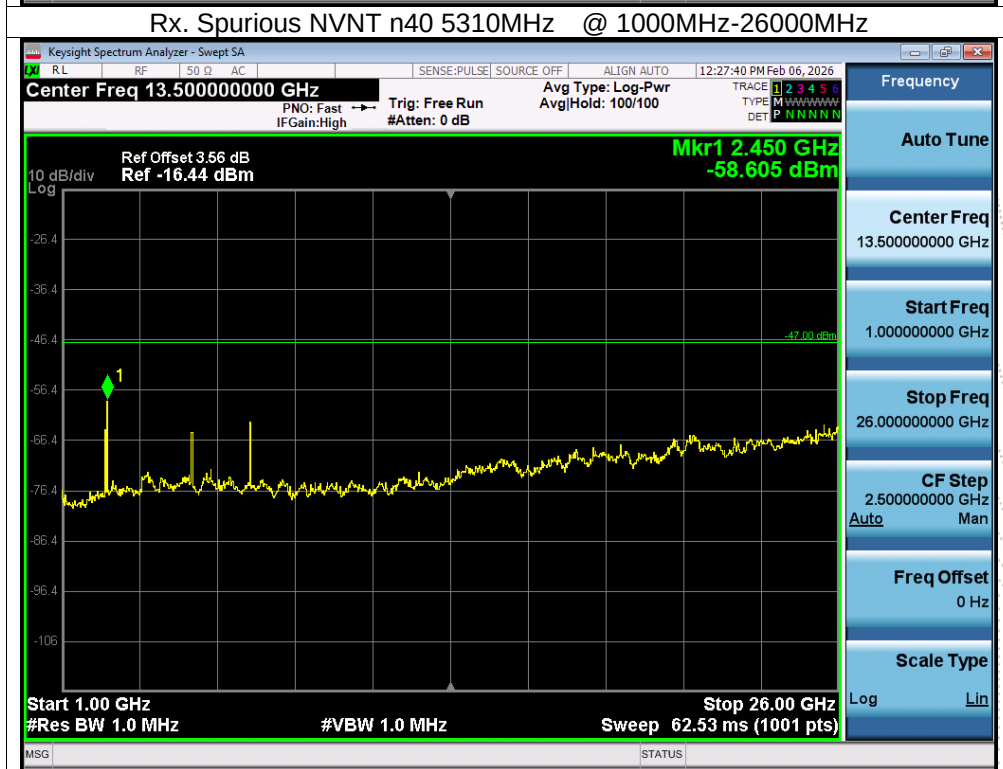
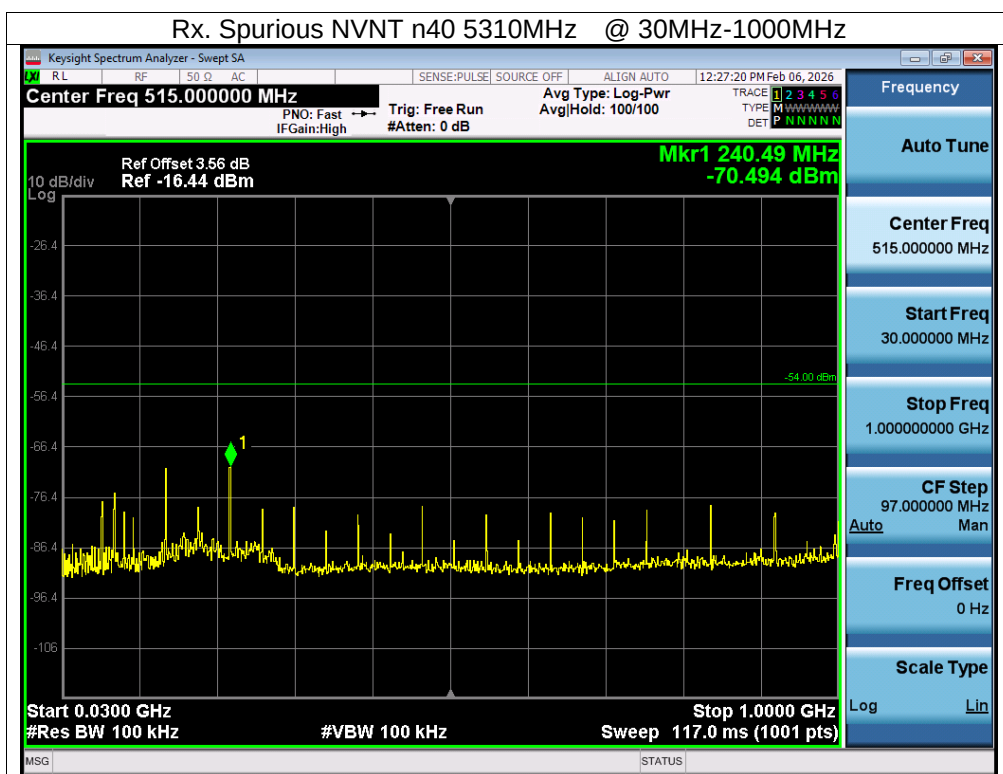
C T
3C
PPR
spor





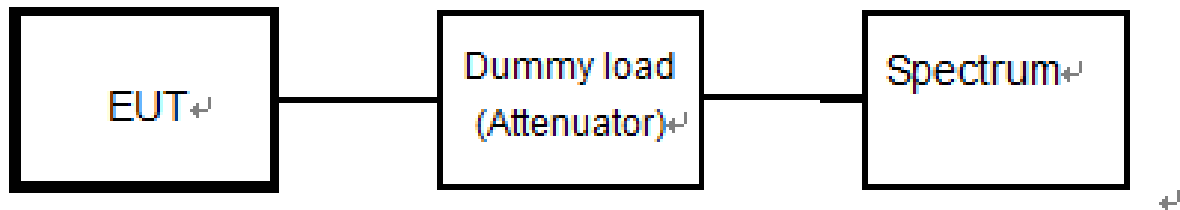






12. Transmitter Burst Length Measurement

12.1 Block Diagram Of Test Setup



12.2 Limit

Item	Limits
Transmitter Burst Length	≤8msecond

12.3 Measuring Instruments And Setting

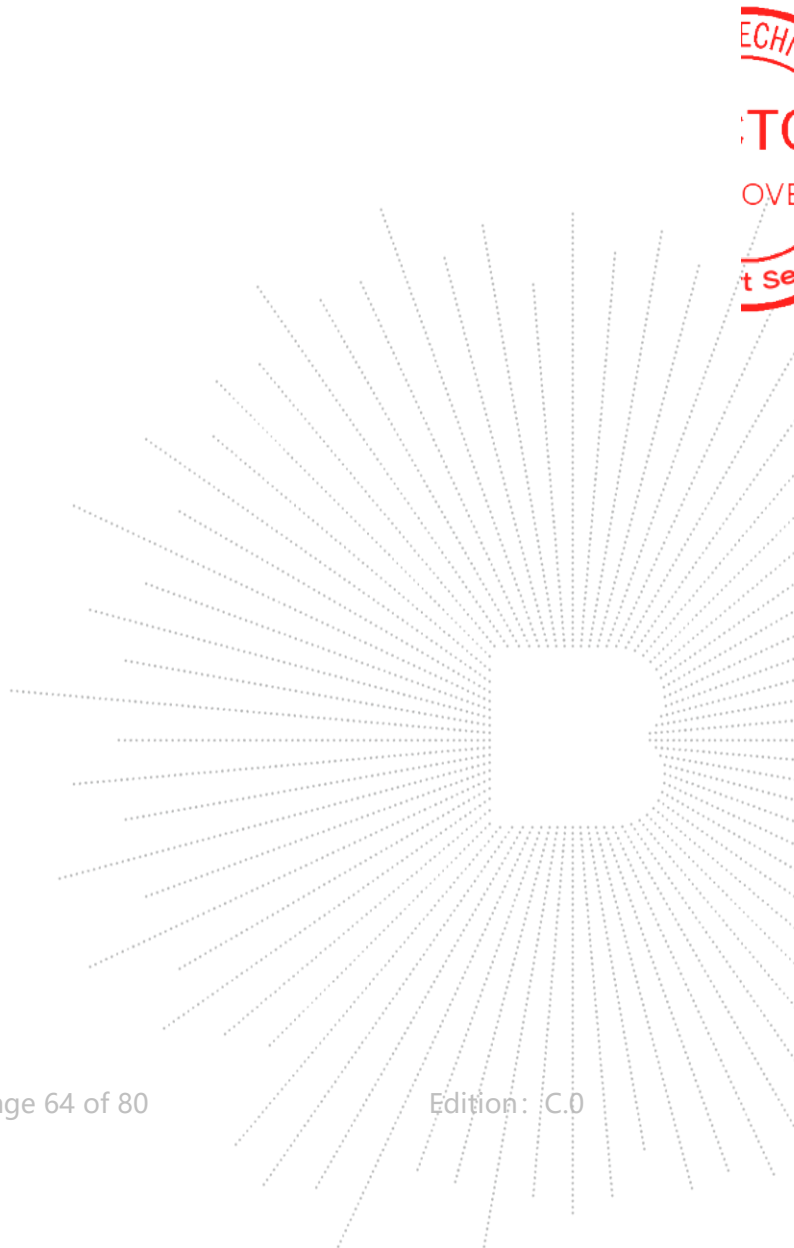
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

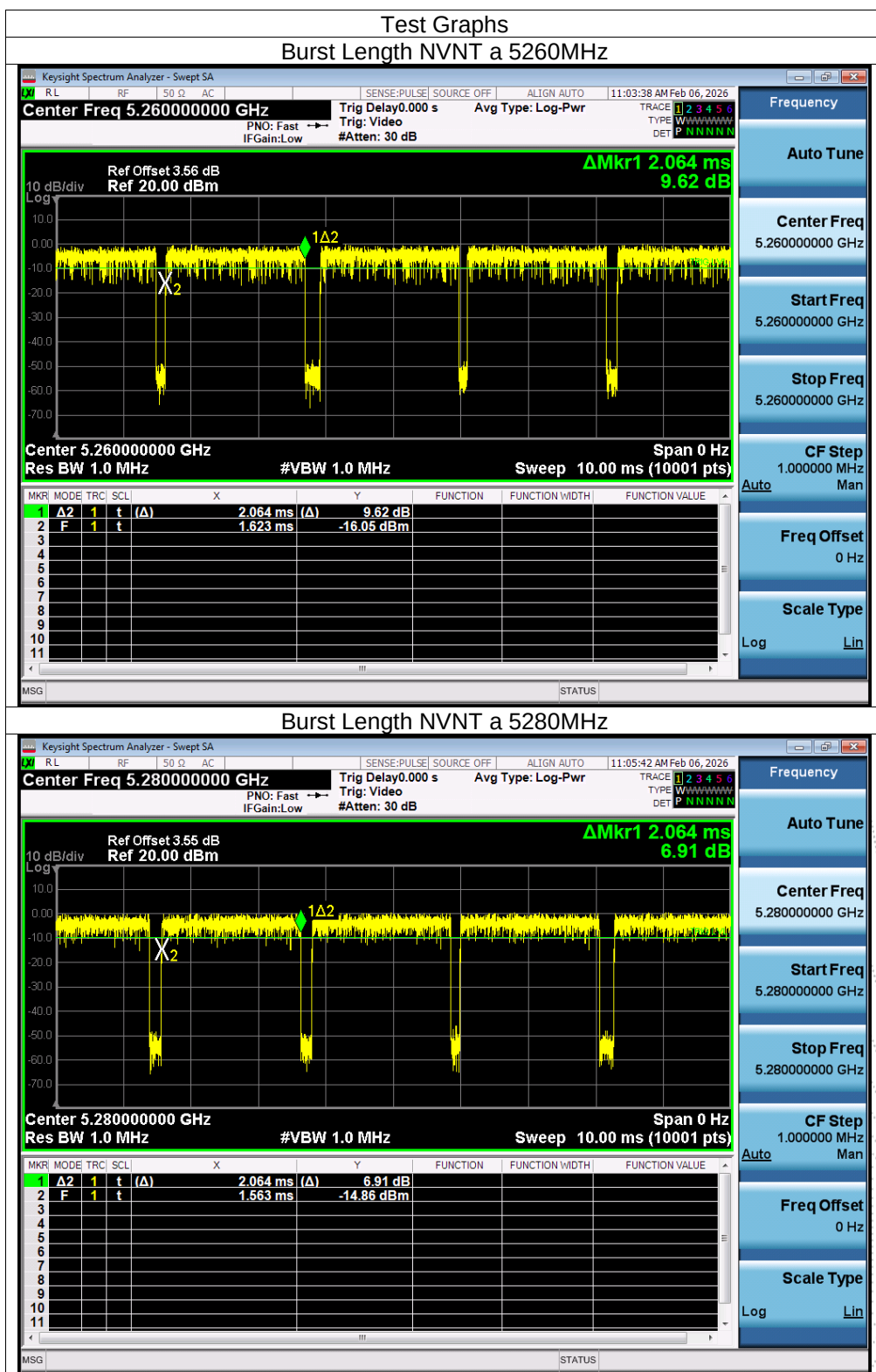
Spectrum Parameter	Setting
Center frequency	Test frequency
Sweep bandwidth	0Hz
Resoluble bandwidth	1MHz
Video bandwidth	equivalent to resolvable bandwidth
Sweep Time	Minimum time to assure measuring accuracy
Y-axis scale	10dB/Div.
Detection mode	Positive peak
Trigger condition	Rising up of level

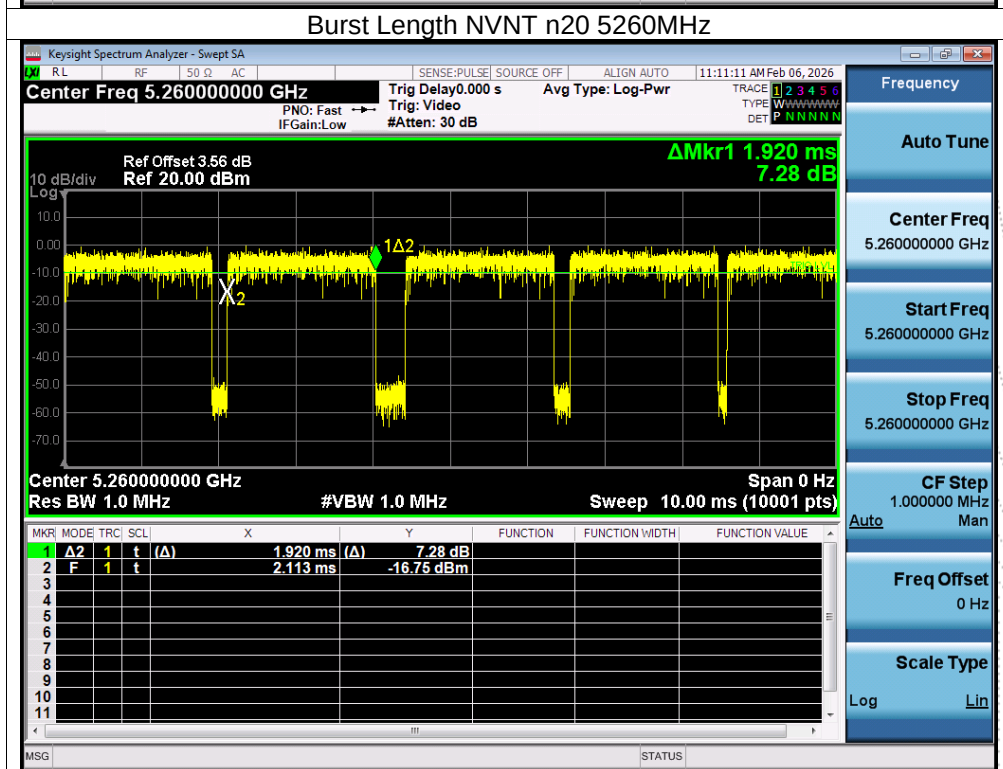
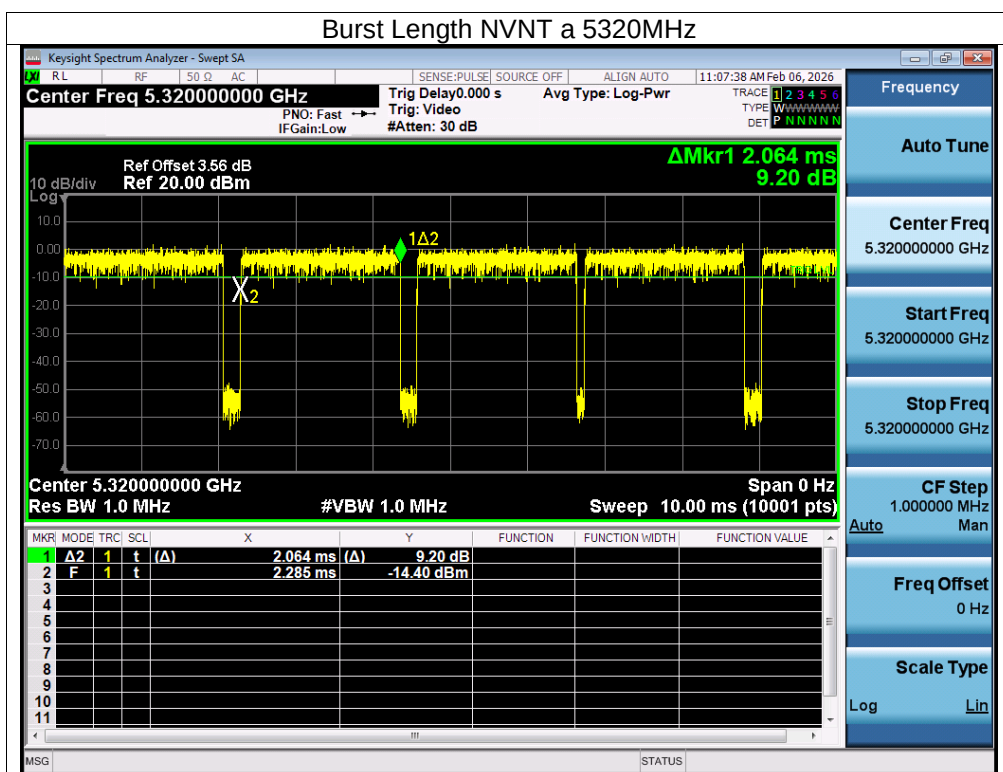
12.4 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

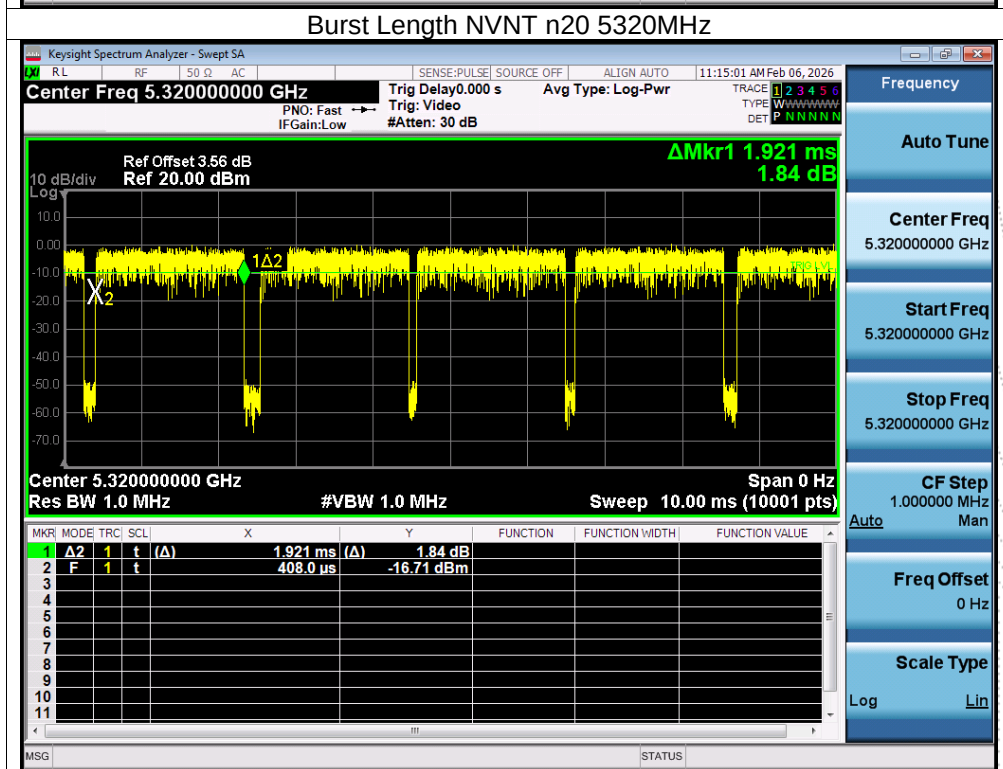
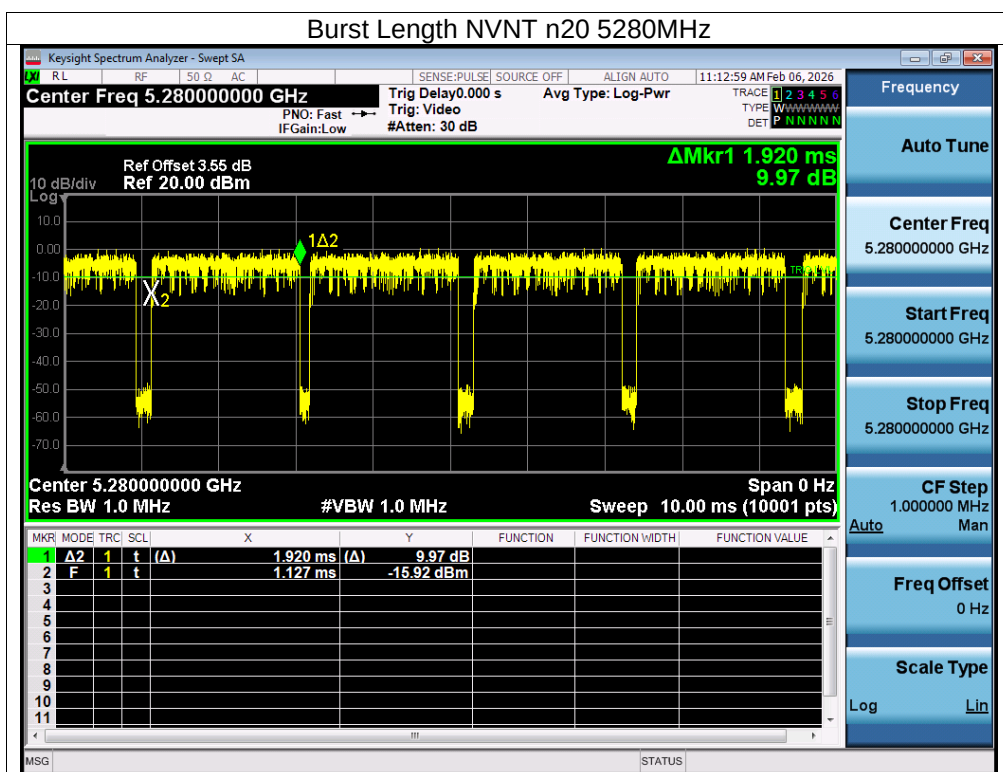
Condition	Mode	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	5260	2.064	8	Pass
NVNT	a	5280	2.064	8	Pass
NVNT	a	5320	2.064	8	Pass
NVNT	n20	5260	1.92	8	Pass
NVNT	n20	5280	1.92	8	Pass
NVNT	n20	5320	1.921	8	Pass
NVNT	n40	5270	0.937	8	Pass
NVNT	n40	5310	0.936	8	Pass

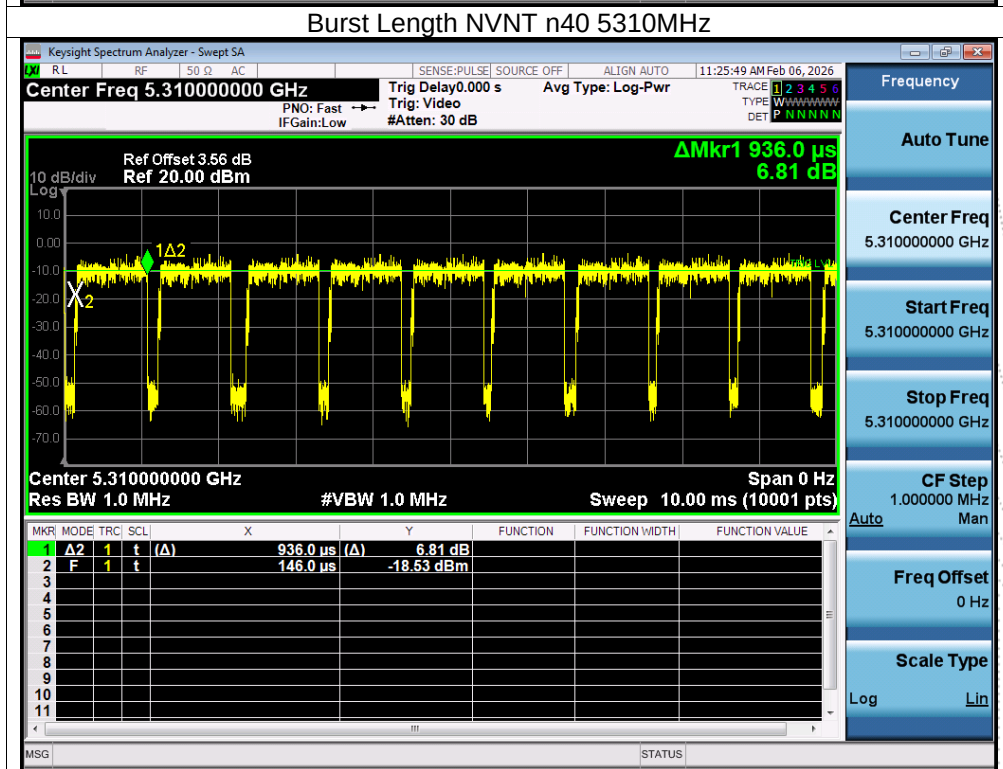
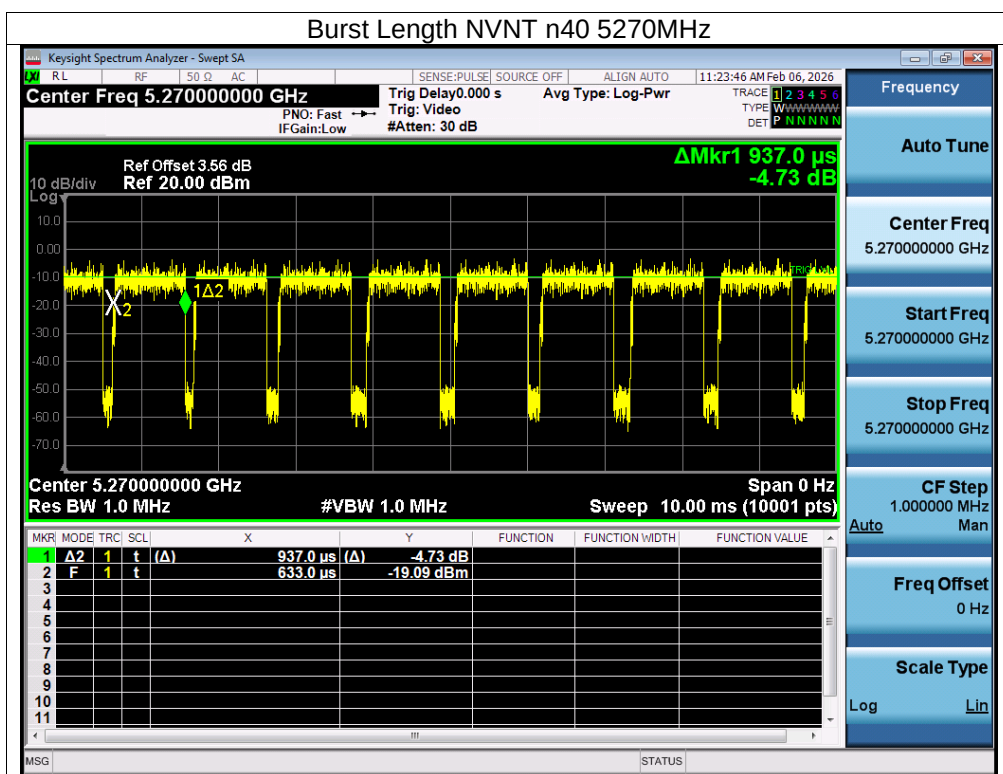




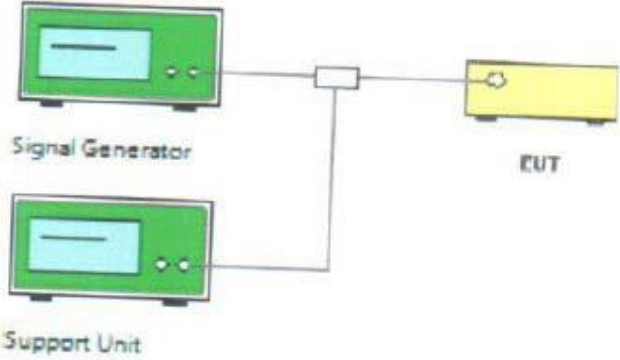


CO., LTD





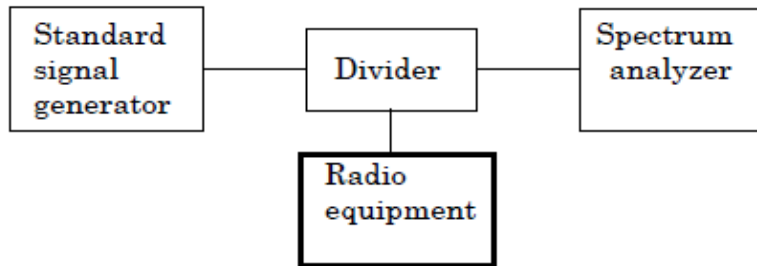
13. Interference Prevention Function Measurement

Test condition:	Test diffusion code and modulate with standard coding test signal
Test setup:	
Test Procedures:	1. The EUT continuous connected with support unit. 2. Signal generator transmitted interference signal to the EUT. 3. Check the EUT must be automatic cessation of transmitting
Test Instruments:	Refer to section 5.2 for details
Test results:	Pass Transmitter: The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good. Receiver: The transmitting mode of EUT is on normal operating, the interference prevention function is good.
Mac address:	00:0a:f5:f0:11:4e

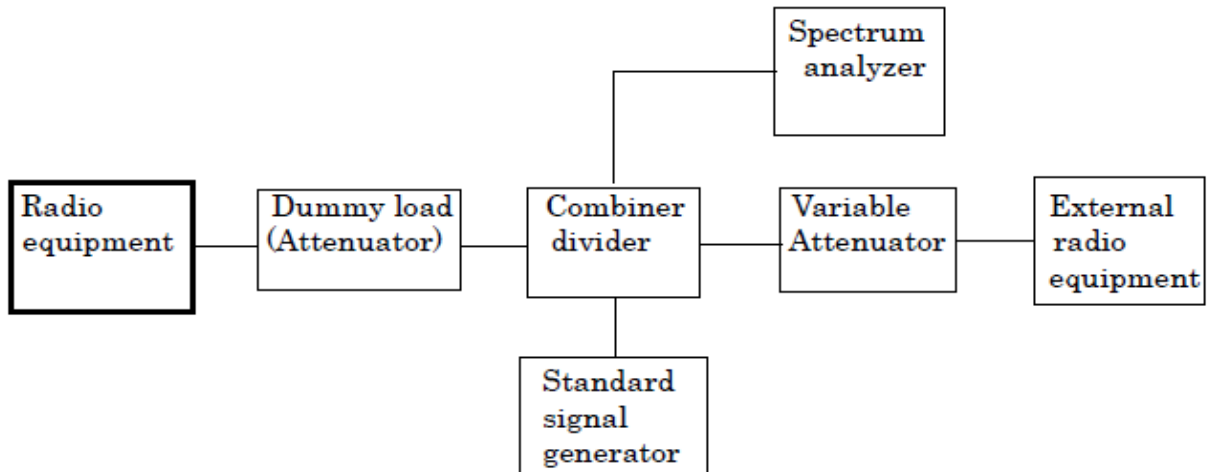
14. Carrier Sense Capability Measurement

14.1 Block Diagram Of Test Setup

(1) Test performed with the radio equipment to be tested only



(2) Test performed using the external radio equipment



14.2 Limit

EUT stop RF transmission signal after carrier inject to EUT.

14.3 Test Procedure

(1) Test performed with the radio equipment to be tested only

A. Set the standard signal generator in non-transmission condition and the radio equipment to be tested in transmission condition, and confirm transmission of radio wave by means of the spectrum analyzer.

B. Set the radio equipment to be tested in receiving condition.

C. Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radio wave by means of the spectrum analyzer.

(2) Test performed using the external radio equipment

A. Set the standard signal generator in non-transmission condition.

B. Connect the radio equipment to be tested with the external equipment by means of the line and confirm transmission of radio wave of test frequency by means of the spectrum analyzer.

C. Set the radio equipment to be tested in receiving condition.

D. Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radio wave by means of the spectrum analyzer.

Note: SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on $22.79 + G - 20 \cdot \log(f)$ dBm) (G is the antenna gain, f is the test frequency).

14.5 Test Result

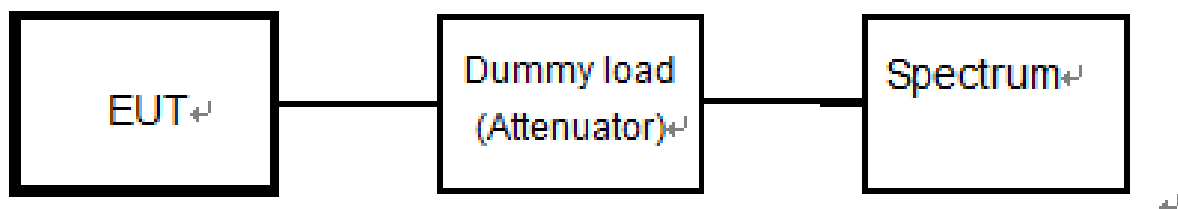
(1) RESULT

Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11a	CH52	Pass	Pass	Pass
	CH56	Pass	Pass	Pass
	CH64	Pass	Pass	Pass
802.11n20	CH52	Pass	Pass	Pass
	CH56	Pass	Pass	Pass
	CH64	Pass	Pass	Pass
802.11n40	CH54	Pass	Pass	Pass
	CH62	Pass	Pass	Pass

Result: OK

15. Adjacent Channel Emitted Power Measurement

15.1 Block Diagram Of Test Setup



15.2 Limit

802.11a	802.11n20/ac20
Fc ± 20MHz ±10MHz BW : -25dBc Fc ± 40MHz ±10MHz BW : -40dBc	Fc ± 20MHz ±10MHz BW : -25dBc Fc ± 40MHz ±10MHz BW : -40dBc
802.11n40/ac40	802.11ac80
Fc ± 40MHz ±20MHz BW : -25dBc Fc ± 80MHz ±20MHz BW : -40dBc	Fc ± 80MHz ±40MHz BW : -20dBc

15.3 Measuring Instruments And Setting

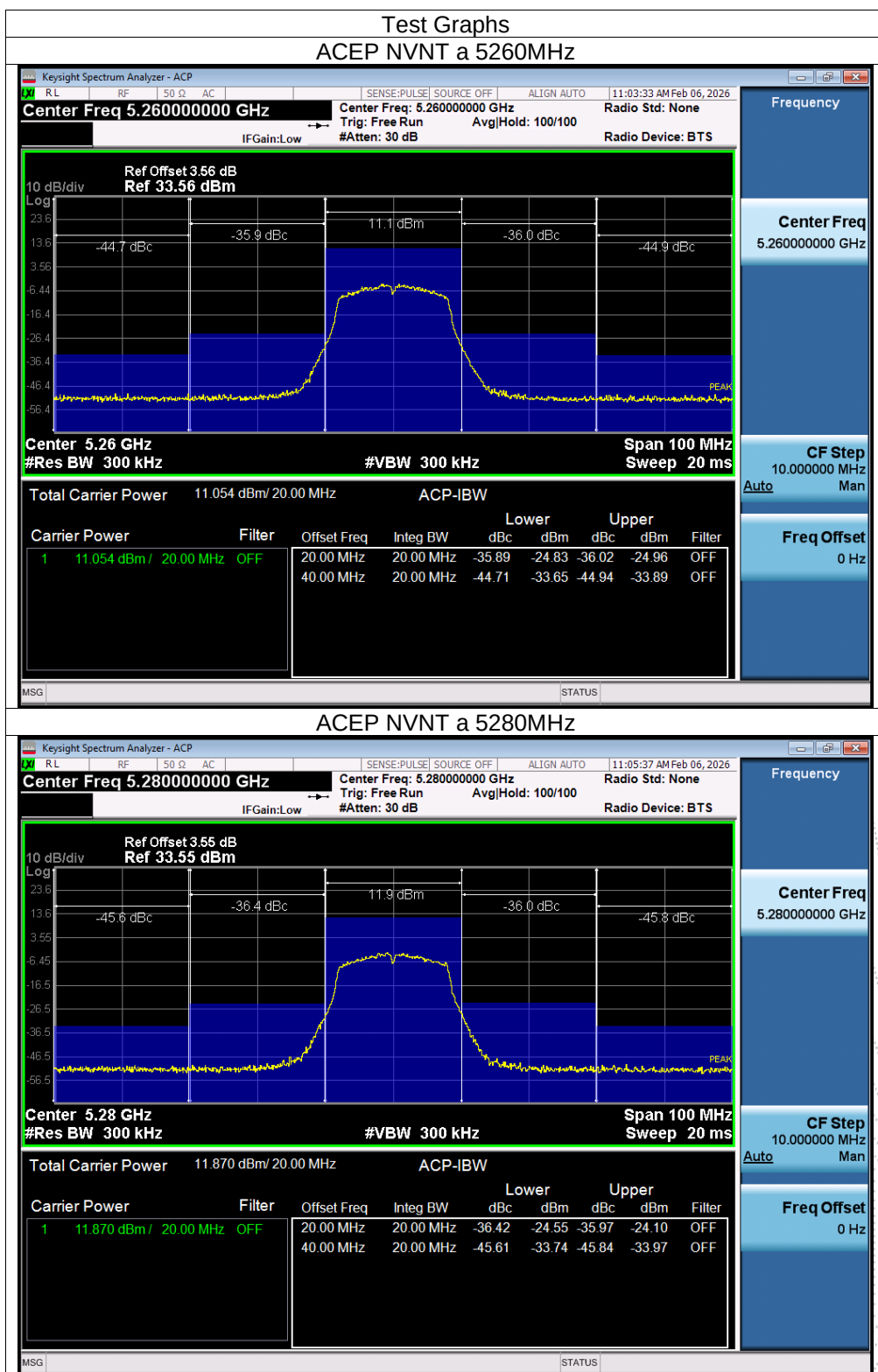
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

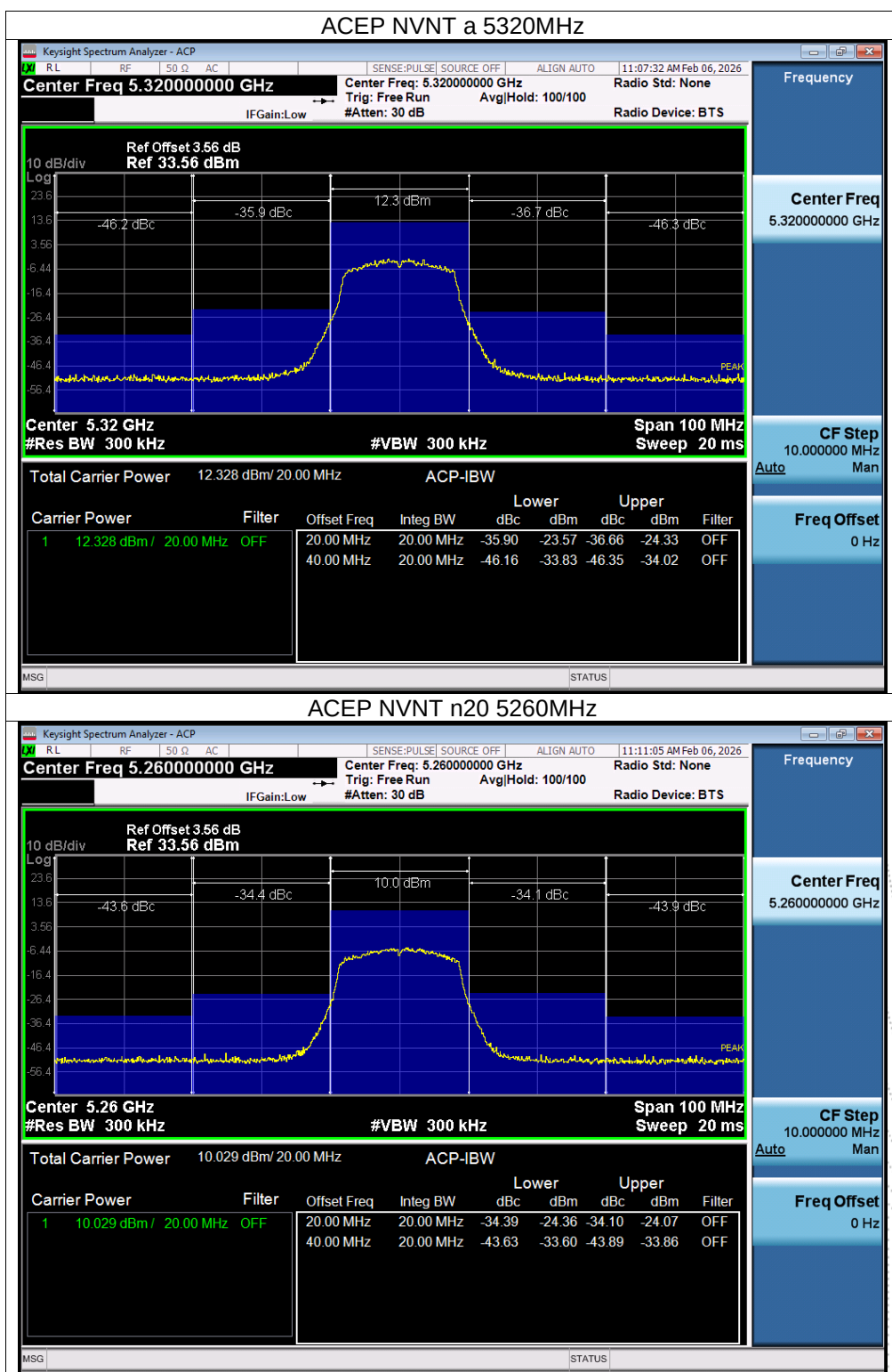
Spectrum Parameter	Setting
Center frequency	Frequency indicated in the test procedure
Sweep frequency width	120MHz(20MHz system); 240MHz(40MHz system); 480MHz(80MHz system);
Resoluble bandwidth	300kHz
Video bandwidth	300kHz
Y-axis scale	10dB/Div.
Input level	Value to be maximum dynamic range
Data points	More than 400 points
Sweep mode	Continuous sweep
Detection mode	Sample (Positive peak in case of burst wave)

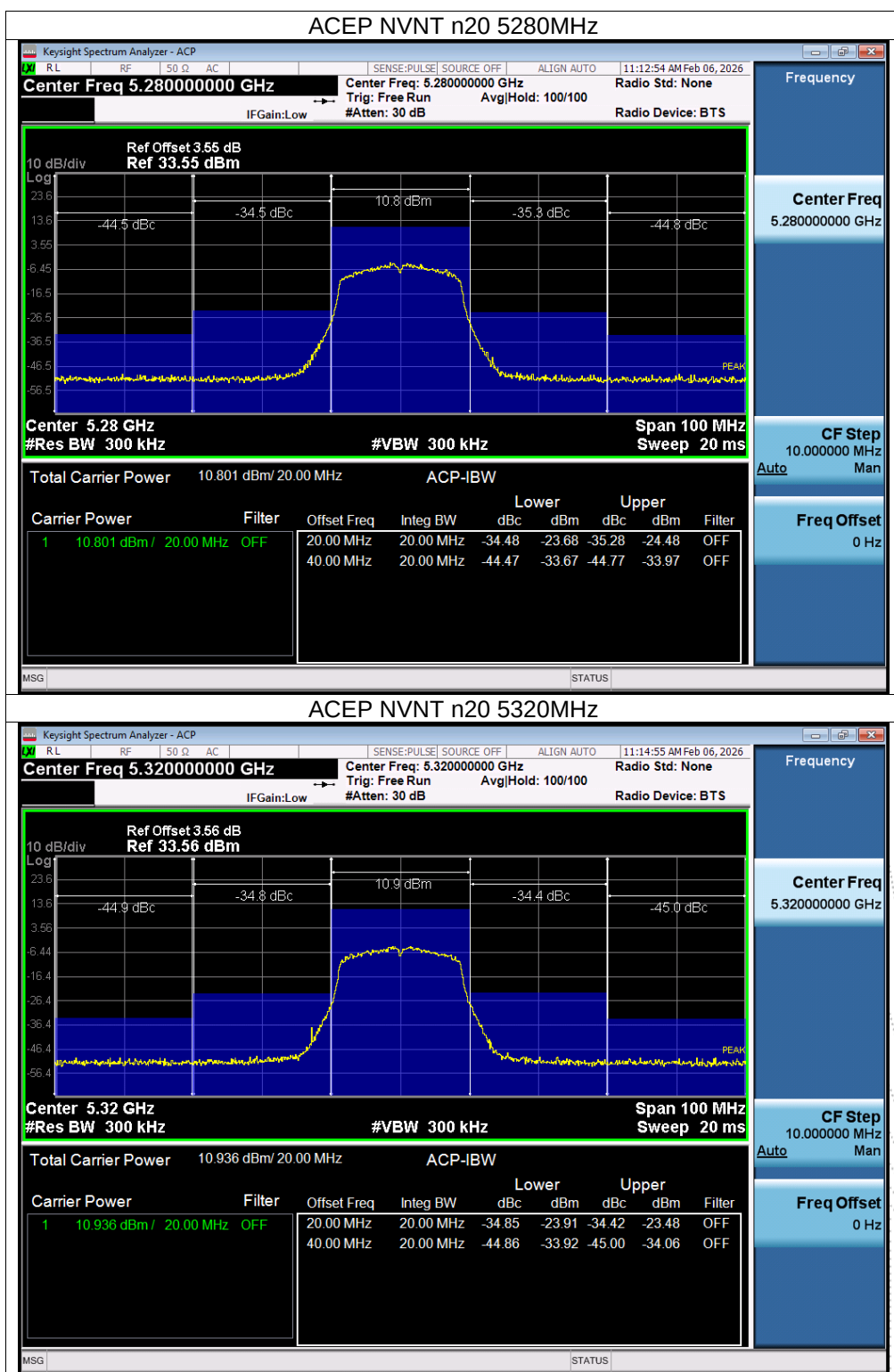
15.4 Test Result

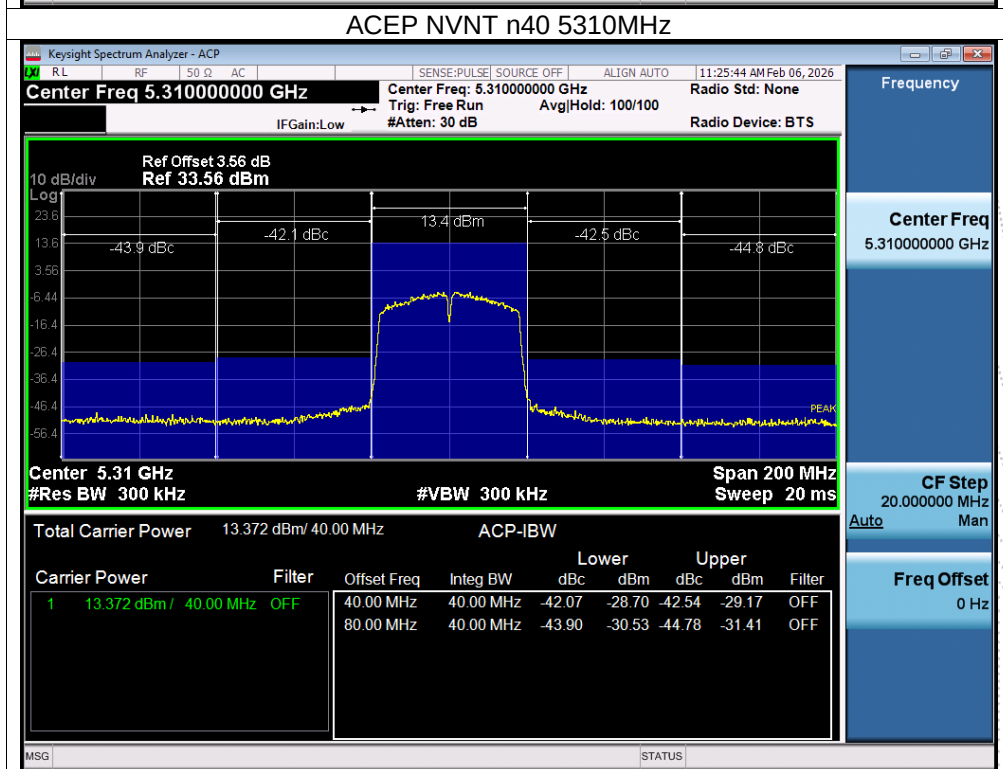
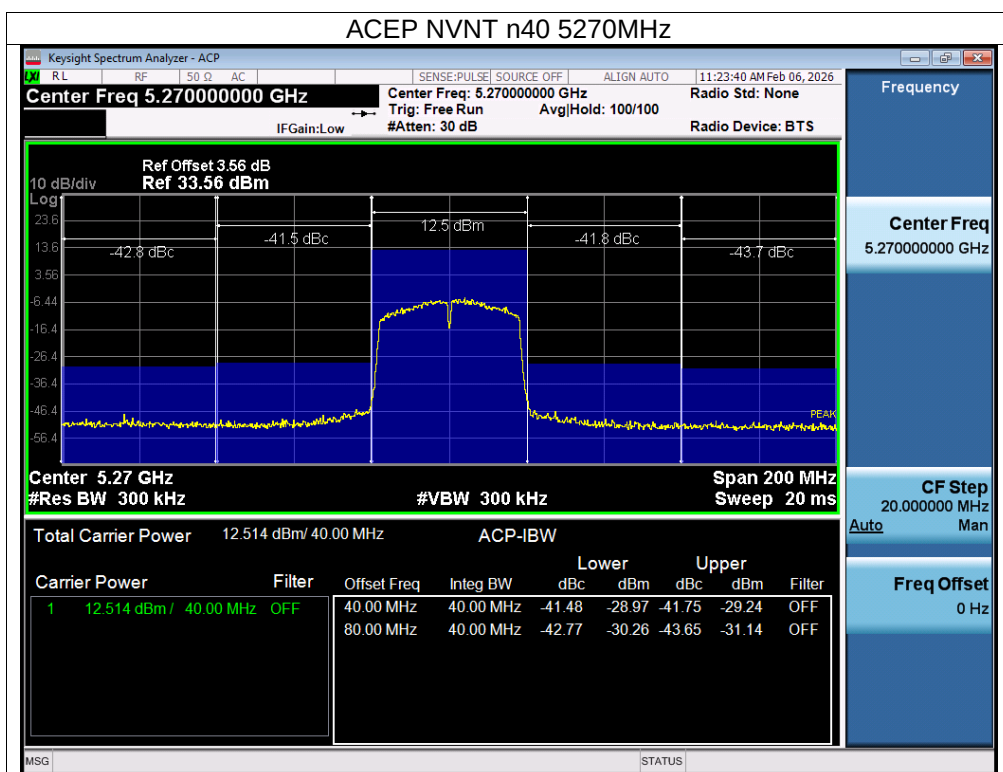
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	-20	-35.89	-25	Pass
NVNT	a	5260	-40	-44.71	-40	Pass
NVNT	a	5260	20	-36.02	-25	Pass
NVNT	a	5260	40	-44.94	-40	Pass
NVNT	a	5280	-20	-36.42	-25	Pass
NVNT	a	5280	-40	-45.61	-40	Pass
NVNT	a	5280	20	-35.97	-25	Pass
NVNT	a	5280	40	-45.84	-40	Pass
NVNT	a	5320	-20	-35.9	-25	Pass
NVNT	a	5320	-40	-46.16	-40	Pass
NVNT	a	5320	20	-36.66	-25	Pass
NVNT	a	5320	40	-46.35	-40	Pass
NVNT	n20	5260	-20	-34.39	-25	Pass
NVNT	n20	5260	-40	-43.63	-40	Pass
NVNT	n20	5260	20	-34.1	-25	Pass
NVNT	n20	5260	40	-43.89	-40	Pass
NVNT	n20	5280	-20	-34.48	-25	Pass
NVNT	n20	5280	-40	-44.47	-40	Pass
NVNT	n20	5280	20	-35.28	-25	Pass
NVNT	n20	5280	40	-44.77	-40	Pass
NVNT	n20	5320	-20	-34.85	-25	Pass
NVNT	n20	5320	-40	-44.86	-40	Pass
NVNT	n20	5320	20	-34.42	-25	Pass
NVNT	n20	5320	40	-45	-40	Pass
NVNT	n40	5270	-40	-41.48	-25	Pass
NVNT	n40	5270	-80	-42.77	-40	Pass
NVNT	n40	5270	40	-41.75	-25	Pass
NVNT	n40	5270	80	-43.65	-40	Pass
NVNT	n40	5310	-40	-42.07	-25	Pass
NVNT	n40	5310	-80	-43.9	-40	Pass
NVNT	n40	5310	40	-42.54	-25	Pass
NVNT	n40	5310	80	-44.78	-40	Pass



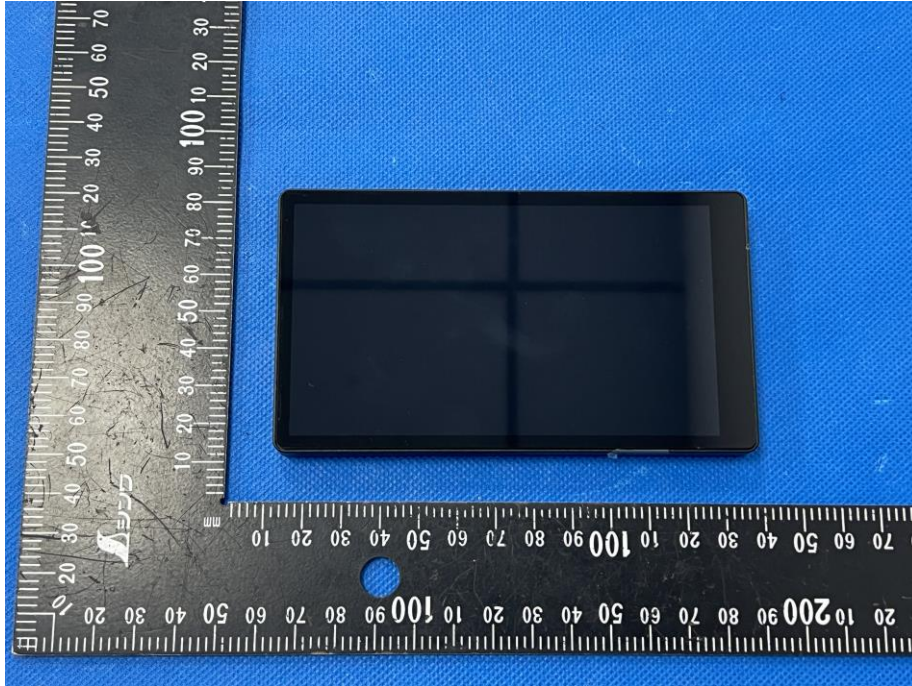




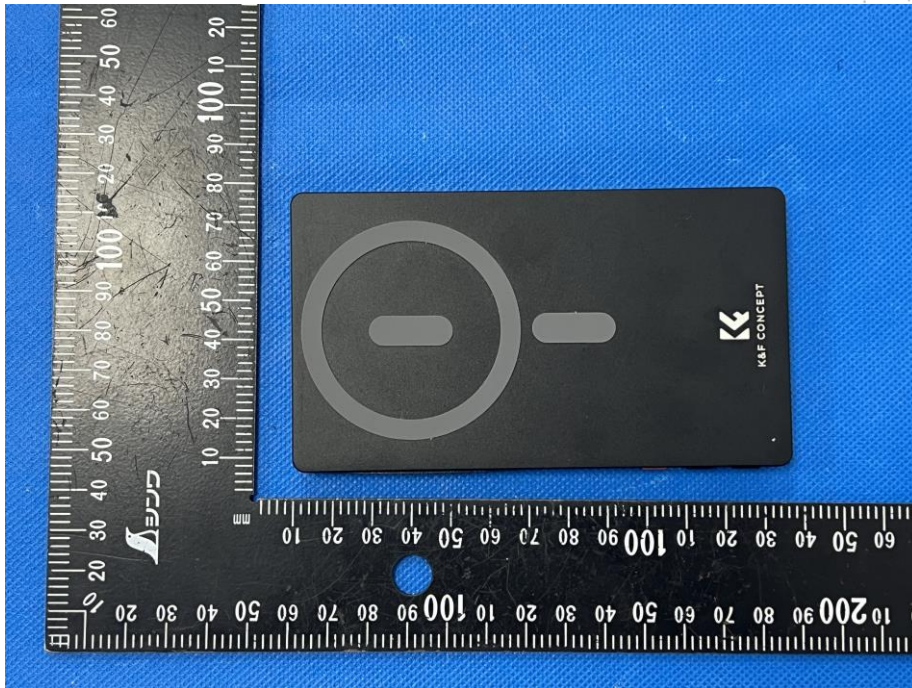


16. EUT Photographs

EUT Photo 1



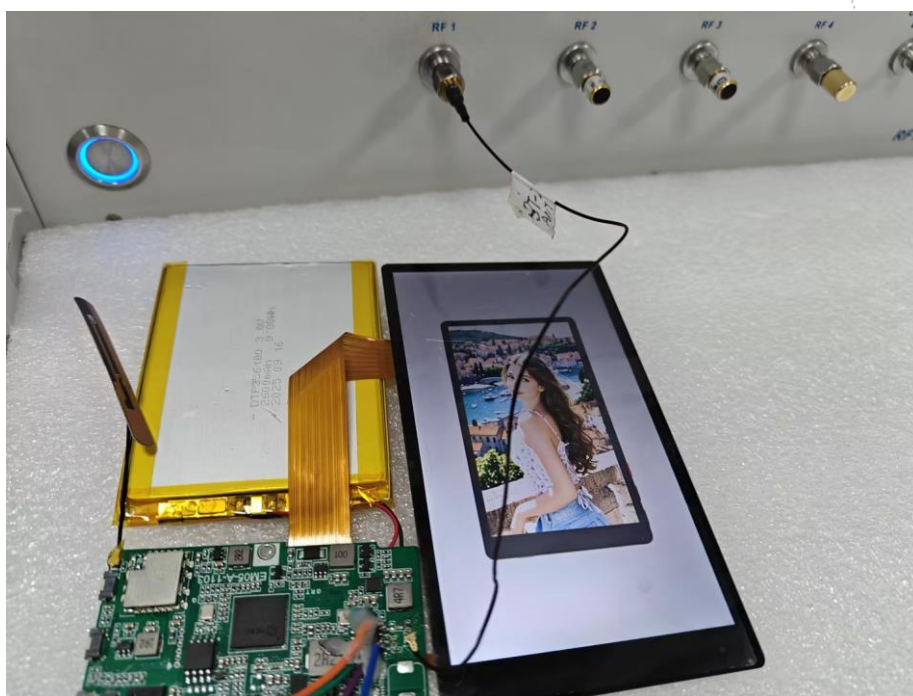
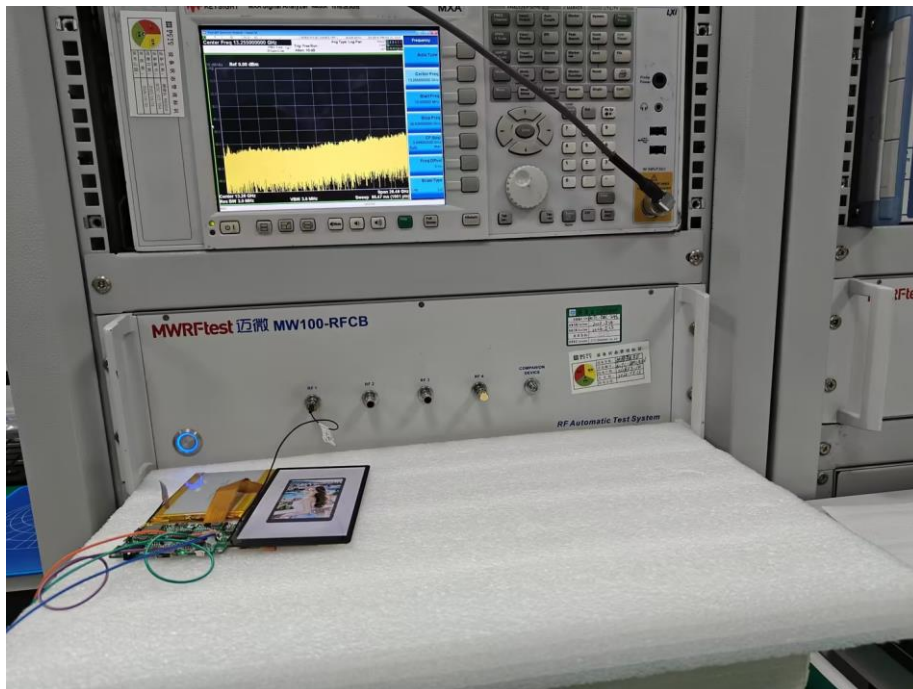
EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

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.

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TEL: 400-788-9558

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Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****