EST REPORT

Report No.	:	TBR-C-202511-0314-31
Applicant	:	Bigme Cloud Literacy Technology Co., Ltd.
Equipment Under Test (EUT)		
EUT Name	:	Tablet
Model No.	:	B10
Series Model No.	:	B10 Pro,B10 Plus,B10 Ultra,B10 Max,B10 Lite,B10 S,B10 BW,B10 Color,B10 Pro Color,B10 Plus Color,B10 Ultra Color,B10 Max Color,B10 Lite Color,B10 S Color,B10 Color Pro,B10 Color Plus
Brand Name	:	Bigme
Receipt Date	:	2025-12-17
Test Date	:	2025-12-17 to 2026-04-20
Issue Date	:	2026-04-20
Rule Part(s)	:	MIC Notice No.88 Annex 43
Test Standards	:	ARIB STD-T66 Article 2 paragraph 1 item 19
Conclusions	:	**PASS**
		In the configuration tested, the EUT complied with the standards specified above

Tested By	:	Lily zhang	Lily zhang
Reviewed By	:	Henry huang	Henry huang
Approved By	:	IVAN SU	Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202511-0314-31	Rev.01	Initial issue of report	2026-04-20

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1. General Information

1.1 Description of Device (EUT)

EUT	:	Tablet
Model(s) No.	:	B10, B10 Pro,B10 Plus,B10 Ultra,B10 Max,B10 Lite,B10 S,B10 BW,B10 Color,B10 Pro Color,B10 Plus Color,B10 Ultra Color,B10 Max Color,B10 Lite Color,B10 S Color,B10 Color Pro,B10 Color Plus
Model Difference	:	All these models are exactly the same in terms of printed circuit boards, layout and circuit design. The difference lies in the distinction of different shell colors.
Power supply	:	USB INPUT: DC 5V/3A DC 3.85V 6900mAh 26.57Wh Rechargeable Li-ion battery
Radio Technology	:	802.11b/g/n(HT20)/n(HT40)/ax(HE20)/ax(HE40)
Operation frequency	:	802.11b/g/n(HT20)/ax(HE20): 2412MHz-2472MHz 802.11n(HT40)/ax(40): 2422MHz-2462MHz
Modulation	:	802.11b:DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM) 802.11ax: OFDMA (BPSK, QPSK,16QAM, 64QAM, 256QAM, 1024QAM)
Data Rate	:	802.11b:11/5.5/2/1Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n: up to 150Mbps 802.11ax: up to 300Mbps
Antenna Type	:	FPC Antenna, Maximum Gain: 2.45dBi
Declared Output Power	:	802.11b: 3mW/MHz 802.11g: 2mW/MHz 802.11n(HT20): 2mW/MHz 802.11n(HT40): 1mW/MHz 802.11ax(HE20): 2mW/MHz 802.11ax(HE40): 1mW/MHz
Applicant	:	Bigme Cloud Literacy Technology Co., Ltd.
Address	:	01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD.,BAO AN 3RD DISTRICT,SHENZHEN, CHINA
Manufacturer	:	Bigme Cloud Literacy Technology Co., Ltd.
Address	:	01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD.,BAO AN 3RD DISTRICT,SHENZHEN, CHINA
Software Version	:	V1.0
Hardware Version	:	V1.0

Remark:

(1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.

(2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

1.2 Channle List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	**2412**	06	2437	11	2462
02	2417	**07**	**2442**	12	2467
03	2422	08	2447	**13**	**2472**
04	2427	09	2452		
05	2432	10	2457		
Note: CH 01~CH 13 for 802.11b/g/n(HT20)/ax(HE20) CH 03~CH 11 for 802.11n(HT40)/ /ax(HE40)					

2. Description of Test

2.1 Summary of Test

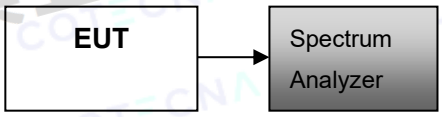
CLAUSE (ARIB STD-T66)	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	**PASS**
3.2 (3)	Tolerances for Antenna Power	**PASS**
3.2 (4)	Frequency Tolerance	**PASS**
3.2 (5)	Transmission Rate	**PASS**
3.2 (7)	Occupied Frequency Bandwidth	**PASS**
3.2 (8)	Spread Bandwidth	**PASS**
3.2 (9)	Process Gain	**PASS**
3.2 (10)	Number of Carriers	**PASS**
3.2 (11)	Dwell Time	**N/A**
3.2 (6)	Spurious Emissions	**PASS**
/	Interference prevention function	**PASS**
/	Carrier Sensing function	**PASS**
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	**PASS**
Note: N/A is an abbreviation for Not Applicable.		

2.2 Assistant Equipment Used for Test

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

Equipment	Model No.	Serial No.	Trade Name
/	/	/	/

2.3 Block Diagram of Test Setup



Test PC run test software provided by client to control EUT work in test mode as described in clause 2.4

2.4 Test Mode Description

The test software (Engineering Mode) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode:

Tested Mode, Channel and Parameters Information		
Mode	**Channel Fre.(MHz)**	**Parameters**
802.11b	2412	15
	2442	15
	2472	15
802.11g	2412	15
	2442	15
	2472	15.5
802.11n(HT20)	2412	15
	2442	15.5
	2472	15.5
802.11n(HT40)	2422	14.5
	2442	14.5
	2462	15
802.11ax(HE20)	2412	15
	2442	15
	2472	15
802.11ax(HE40)	2422	14.5
	2442	15
	2462	15
Note: Some modes not apply for all the test items.		

Test Voltage Information		
Power supply voltage 3.85V DC (Normal)	Power supply voltage 4.235V DC (+10%)	Power supply voltage 3.465V DC (-10%)
RF module voltage DC 3.3V	RF module voltage DC 3.3V	RF module voltage DC 3.3V
When EUT be operated at 10% from the normal supply voltage, the supply voltage of RF part was varied within 1%. All test cased were done under the normal supply voltage. Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.		

2.5 Test Conditions

Temperature range	25.2℃
Humidity range	52.1%
Pressure range	98kPa

2.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Bandwidth	0.2KHz	/
Antenna Power	0.33dB	/
Frequency Tolerance	2.8 x 10^{-4}MHz	/
Conducted spurious emission	0.13dB	/

2.7 Test Lab Information

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)
The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01
The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)
The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2.8 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde&Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 27, 2025	Aug. 26, 2026
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 27, 2025	Aug. 26, 2026
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 27, 2025	Aug. 26, 2026
Digital Oscilloscope	Tektronix	TDS3014B	C011238	Jun. 16, 2025	Jun. 15, 2026
DC power supply	WTKS POWER	WSD-6020	W210916060 20P01	Aug. 27, 2025	Aug. 26, 2026
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 27, 2025	Aug. 26, 2026
Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Aug. 27, 2025	Aug. 26, 2026
Calibration agencies:			Guangzhou LiSai Metrology & Test Co., Ltd. CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd		

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.

☐(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.

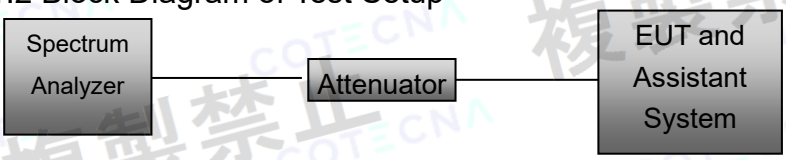
3. Transmitter Test

3.1 Frequency Error

3.1.1 Test Limit

+/- 50x 10^{-6} or less (50ppm)

3.1.2 Block Diagram of Test Setup



3.1.3 Test Procedure

(1) Configure EUT and assistant system

(2) Set EUT work in carrier Tx mode as described in clause 2.4

(3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.
Resolution BW: 10 KHz.
Video BW: 10 KHz.
Span: 1MHz.
Detector: Peak.
Trace Mode: Max Hold.

(4) When the trace is complete, find the peak value of the power envelope and record the frequency.

3.1.4 Deviation From Test Standard

No deviation

3.1.5 Test Result

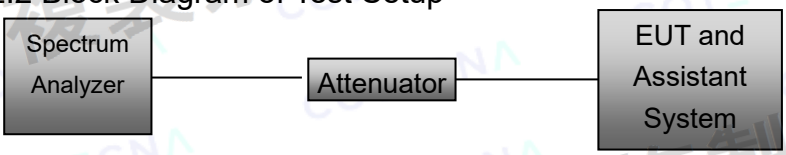
Please refer to the Appendix A.

3.2 Antenna Power

3.2.1 Test Limit

Mode	Limit	Remark
802.11b/g/n(HT20)	≤10mW/MHz	Output Power
802.11n(HT40)	≤5mW/MHz	
Tolerance: +20%		
802.11b/g/n(HT20)	≤12.14dBm/MHz	E.I.R.P Power
802.11n(HT40)	≤9.13dBm/MHz	

3.2.2 Block Diagram of Test Setup



3.2.3 Test Procedure

Connect the UUT to the spectrum analyzer 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.

When the trace is complete, find the peak value of the power envelope. Calculated the Maximum deviation and recorded the results.

3.2.4 Deviation From Test Standard

No deviation

3.2.5 Test Result

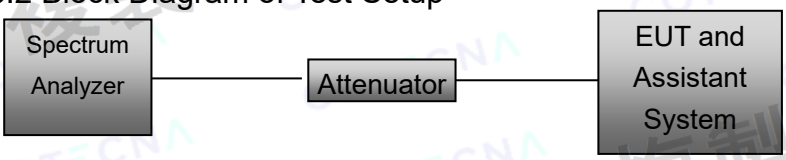
Please refer to the Appendix B.

3.3 Occupied Bandwidth

3.3.1 Test Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.3.2 Block Diagram of Test Setup



3.3.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26 MHz (For DSSS or OFDM Device) or 83.5 MHz (For FHSS Device).

3.3.4 Deviation From Test Standard

No deviation

3.3.5 Test Result

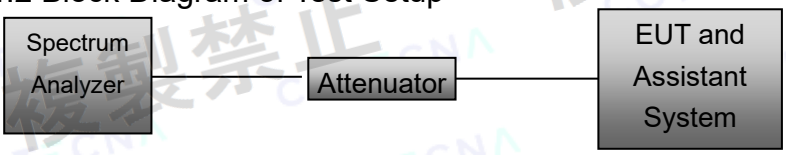
Please refer to the Appendix C.

3.4 Spread Bandwidth

3.4.1 Test Limit

ITEM	LIMIT	REMARK
SPREADING FACTOR	≧5	Operating frequency 2400 to 2483MHz
SPREADING BANDWIDTH	≧500kHz	

3.4.2 Block Diagram of Test Setup



3.4.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500 kHz.

3.4.4 Deviation From Test Standard

No deviation

3.4.5 Test Result

Please refer to the Appendix D.

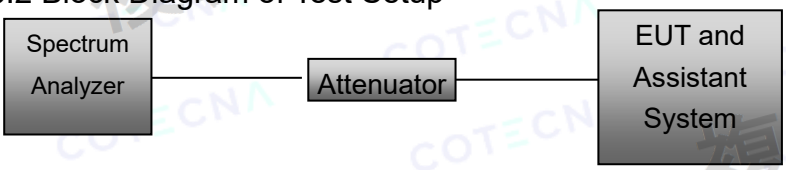
3.5 Spurious Emission of TX

3.5.1 Test Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

FREQUENCIES (MHz)	LIMIT
30.0MHz to 1000MHz	≦ 2.5uW/MHz
1000MHz to 2387MHz	≦ 2.5uW/MHz
2387.0MHz to 2400.0MHz	≦ 25uW/MHz
2483.5MHz to 2496.5MHz	≦ 25uW/MHz
2496.5MHz to 13000.0MHz	≦ 2.5uW/MHz

3.5.2 Block Diagram of Test Setup



3.5.3 Test Procedure

(1) Configure EUT and assistant system

(2) Set EUT work in test mode as described in clause 2.4

(3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1G: BW: 1MHz. Video BW: 1MHz.

Above 1G: BW: 1MHz. Video BW: 1MHz.

Detector: Peak. Trace Mode: Max Hold.

(4) All the emissions from 30MHz to 13.0GHz were measured and record.

3.5.4 Deviation From Test Standard

No deviation

3.5.5 Test Result

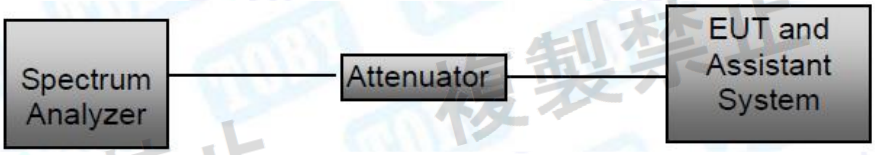
Please refer to the Appendix E.

3.6 Number of Carriers

3.6.1 Test Limit

The OFDM system shall have one or more carriers per 1 MHz bandwidth.

3.6.2 Block Diagram of Test Setup



3.6.3 Deviation From Test Standard

No deviation

3.6.4 Test Result

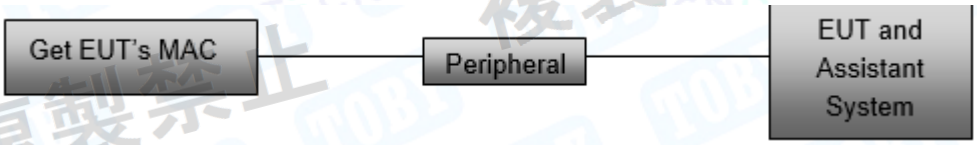
ENVIRONMENTAL CONDITIONS	23.6deg.C, 43% RH
TEST RESULT	This device has more than 1 subcarrier in 1MHz, Compliances with the requirement.

3.7 Interference Prevention Function

3.7.1 Test Limit

Item	Limits
Identification	≥48 bits
MAC IP List	MAC Scan

3.7.2 Block Diagram of Test Setup



3.7.3 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.

3.7.4 Deviation From Test Standard

No deviation

3.7.5 Test Result

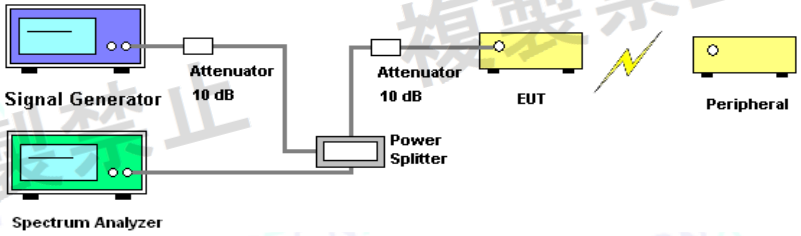
Temperature:	25.2℃	Humidity:	52.1%RH
Mac:	3e:6c:87:e3:5f:05		
Test result:	CONFORM		
Tested by:	Lily zhang		

3.8 Carrier Sensing Function

3.8.1 Test Limit

Good – EUT stop RF transmission signal after carrier inject to EUT.
(On 22.79+Gr-20*log (f)[dBm] (Gr: dBi; f: MHz) or 100mV/m)

3.8.2 Block Diagram of Test Setup



3.8.3 Test Procedure

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On 22.79+Gr-20*log(f)[dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB:1MHz / VB:1MHz / SPAN: 50MHz / AT: 10dB /Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

3.8.4 Deviation From Test Standard

No deviation

3.8.5 Test Result

802.11n (HT40)

FREQUENCY (MHz)	Pcs (dBm)	C.F (dB)	S.G LEVEL	TEST RESULT
2422	-42.4435	4.09	-38.3535	PASS
2442	-42.5149	4.16	-38.3549	PASS
2462	-42.5858	4.18	-38.4058	PASS

NOTE:

Pcs (dBm) = 22.79 + Gr - 20log(F).

Gr: Antenna gain **(2.4GHz:2.45dBi). F:** Transmission frequency (MHz).

CF = Distributor loss + cable loss.

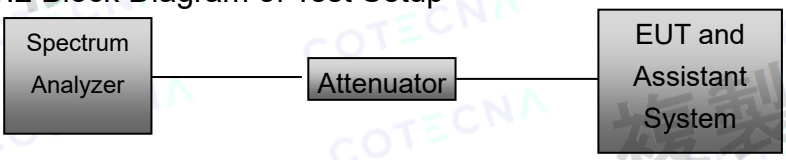
4. Receiver Test

4.1 Secondary Radiated Emissions

4.1.1 Test Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

4.1.2 Block Diagram of Test Setup



4.1.3 Test Procedure

(1) Configure EUT and assistant system

(2) Set EUT work in test mode as described in clause 2.4

(3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1G: BW: 100kHz. Video BW: 100kHz.

Above 1G: BW: 1MHz. Video BW: 1MHz.

Detector: Peak. Trace Mode: Max Hold.

(4) All the emissions from 30MHz to 13.0GHz were measured and record.

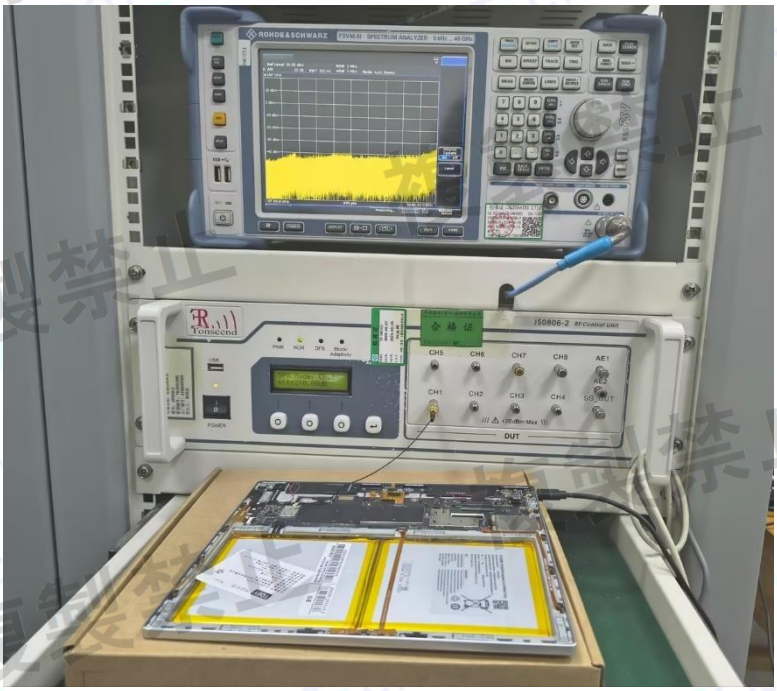
4.1.4 Deviation From Test Standard

No deviation

4.1.5 Test Result

Please refer to the Appendix F.

5. Test Setup Photos



6. EUT Photos

Reference to the test report No.: TBR-C-202511-0314-3

7. Label Information

Reference to the test report No.: TBR-C-202511-0314-3

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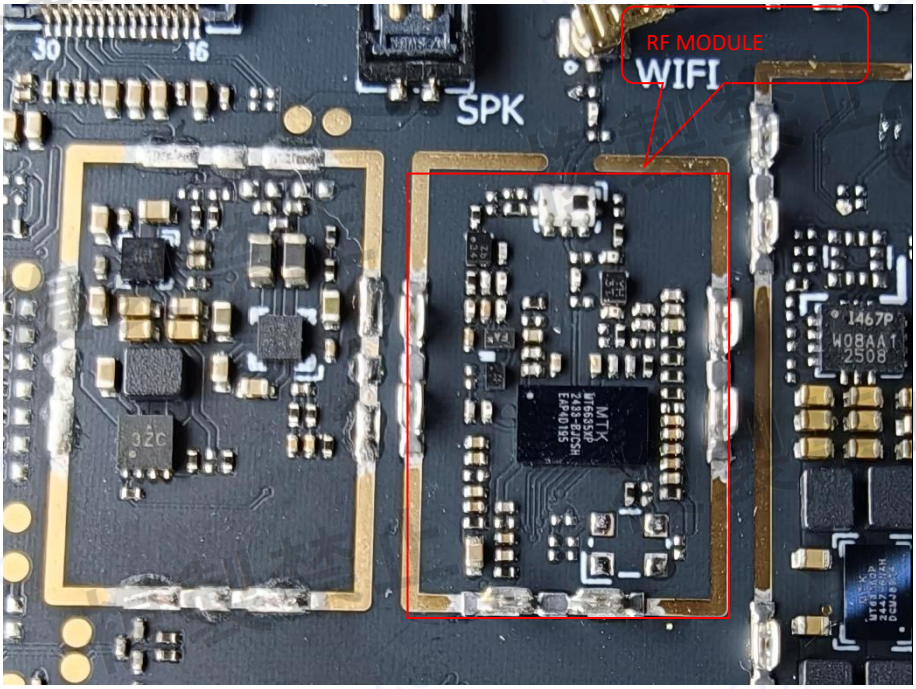
8. Construction Protection Confirmation Method

8.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

8.2 Confirmation Method

RF module is welded directly to PCB board. So the end user can not to modify or change the RF Parts easily.



Appendix A: Frequency Error

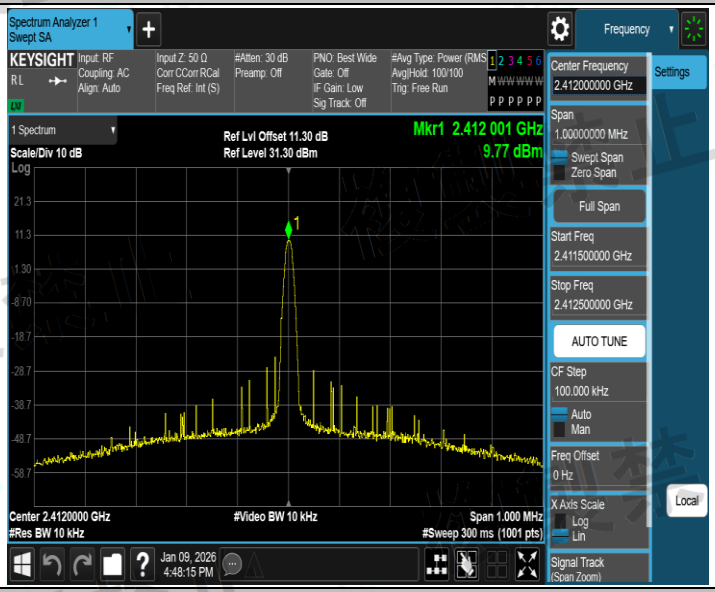
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
	single carrier	Ant1	2412	0.41459	±50	PASS
			2442	0.40950	±50	PASS
			2472	0.40453	±50	PASS
			2422	0.41288	±50	PASS
			2462	0.40617	±50	PASS

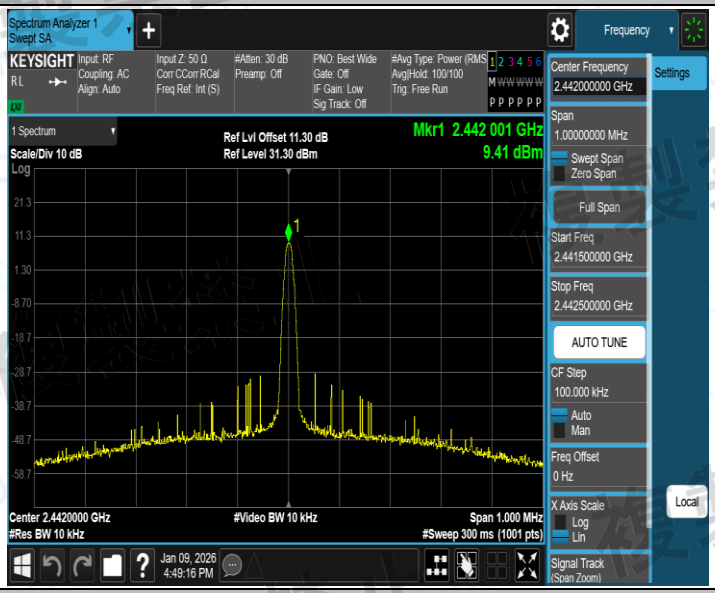
Remark: Only show the test data of worst condition.

Test Graphs

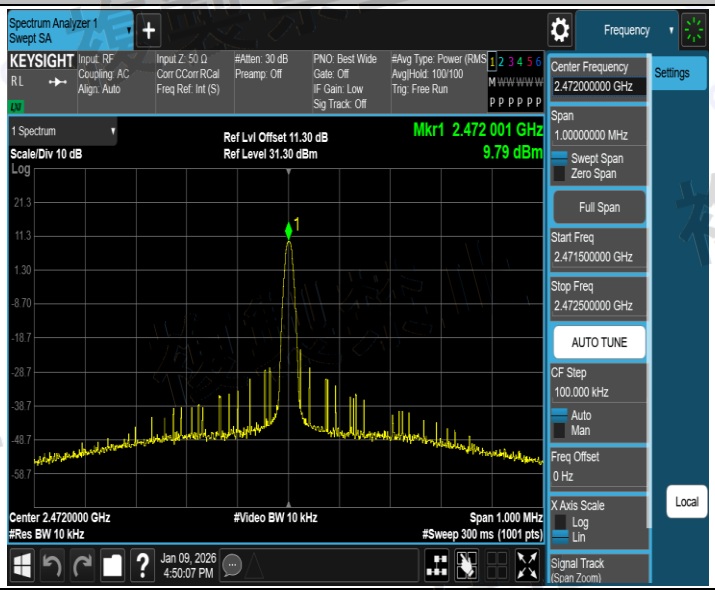
NTNV_Ant1_2412



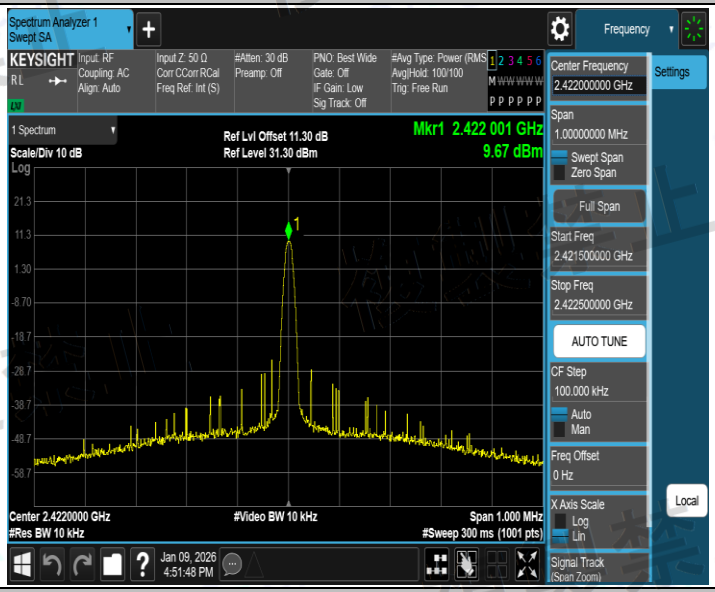
NTNV_Ant1_2442



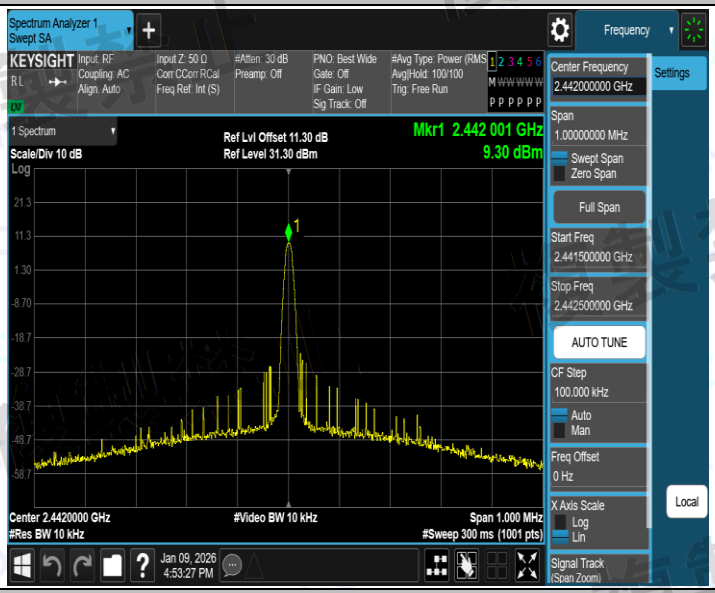
NTNV_Ant1_2472



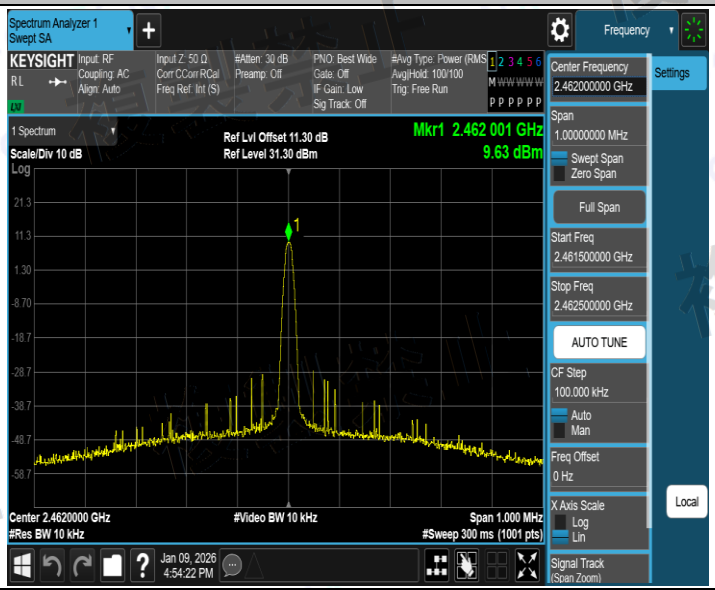
NTNV_Ant1_2422



NTNV_Ant1_2442



NTNV_Ant1_2462



Appendix B: Antenna Power

Antenna Power							
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result(mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2412	4.56	2.8576	≤10	PASS
			2442	3.43	2.2029	≤10	PASS
			2472	4.05	2.5410	≤10	PASS
	11G	Ant1	2412	3.65	2.3174	≤10	PASS
			2442	2.28	1.6904	≤10	PASS
			2472	2.81	1.9099	≤10	PASS
	11N20SISO	Ant1	2412	3.21	2.0941	≤10	PASS
			2442	2.80	1.9055	≤10	PASS
			2472	2.76	1.8880	≤10	PASS
	11N40SISO	Ant1	2422	-0.32	0.9290	≤5	PASS
			2442	-0.62	0.8670	≤5	PASS
			2462	-0.81	0.8299	≤5	PASS
	11AX20SISO	Ant1	2412	2.39	1.7338	≤10	PASS
			2442	1.91	1.5524	≤10	PASS
			2472	2.47	1.7660	≤10	PASS
	11AX40SISO	Ant1	2422	-0.55	0.8810	≤5	PASS
			2442	-1.32	0.7379	≤5	PASS
			2462	-1.26	0.7482	≤5	PASS

Remark: Only show the test data of worst condition.

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	2.8576	3	-4.75	+20	PASS
			2442	2.2029	3	-26.57	+20	PASS
			2472	2.5410	3	-15.30	+20	PASS
	11G	Ant1	2412	2.3174	2	15.87	+20	PASS
			2442	1.6904	2	-15.48	+20	PASS
			2472	1.9099	2	-4.51	+20	PASS
	11N20SISO	Ant1	2412	2.0941	2	4.71	+20	PASS
			2442	1.9055	2	-4.73	+20	PASS
			2472	1.8880	2	-5.60	+20	PASS
	11N40SISO	Ant1	2422	0.9290	1	-7.10	+20	PASS
			2442	0.8670	1	-13.30	+20	PASS
			2462	0.8299	1	-17.01	+20	PASS
	11AX20SISO	Ant1	2412	1.7338	2	-13.31	+20	PASS
			2442	1.5524	2	-22.38	+20	PASS
			2472	1.7660	2	-11.70	+20	PASS
	11AX40SISO	Ant1	2422	0.8810	1	-0.12	+20	PASS
			2442	0.7379	1	-0.26	+20	PASS
			2462	0.7482	1	-0.25	+20	PASS

Remark: Only show the test data of worst condition.

EIRP(dBm/MHz)							
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	4.56	7.01	≤12.14	PASS
			2442	3.43	5.88	≤12.14	PASS
			2472	4.05	6.50	≤12.14	PASS
	11G	Ant1	2412	3.65	6.10	≤12.14	PASS
			2442	2.28	4.73	≤12.14	PASS
			2472	2.81	5.26	≤12.14	PASS
	11N20SISO	Ant1	2412	3.21	5.66	≤12.14	PASS
			2442	2.80	5.25	≤12.14	PASS
			2472	2.76	5.21	≤12.14	PASS
	11N40SISO	Ant1	2422	-0.32	2.13	≤9.13	PASS
			2442	-0.62	1.83	≤9.13	PASS
			2462	-0.81	1.64	≤9.13	PASS
	11AX20SISO	Ant1	2412	2.39	4.84	≤12.14	PASS
			2442	1.91	4.36	≤12.14	PASS
			2472	2.47	4.92	≤12.14	PASS
	11AX40SISO	Ant1	2422	-0.55	1.90	≤9.13	PASS
			2442	-1.32	1.13	≤9.13	PASS
			2462	-1.26	1.19	≤9.13	PASS

Remark: Only show the test data of worst condition.

EIRP(dBm/MHz) =Antenna Power(dBm/MHz) + Antenna Gain(dBi)

Appendix C: Occupied Bandwidth

Test Result

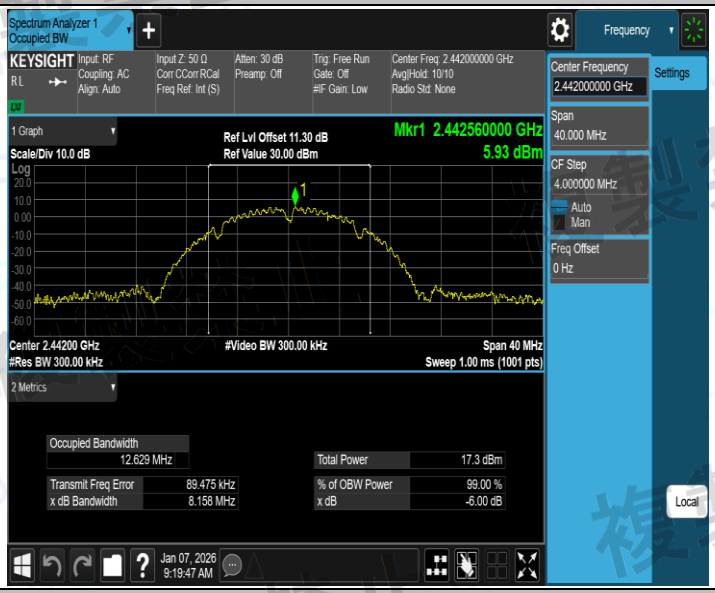
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	12.715	≤26	PASS
			2442	12.629	≤26	PASS
			2472	12.672	≤26	PASS
	11G	Ant1	2412	16.398	≤26	PASS
			2442	16.467	≤26	PASS
			2472	16.365	≤26	PASS
	11N20SISO	Ant1	2412	17.514	≤26	PASS
			2442	17.594	≤26	PASS
			2472	17.523	≤26	PASS
	11N40SISO	Ant1	2422	35.799	26-40	PASS
			2442	35.938	26-40	PASS
			2462	35.857	26-40	PASS
	11AX20SISO	Ant1	2412	18.853	≤26	PASS
			2442	18.797	≤26	PASS
			2472	18.787	≤26	PASS
	11AX40SISO	Ant1	2422	37.564	26-40	PASS
			2442	37.567	26-40	PASS
			2462	37.527	26-40	PASS

Remark: Only show the test data of worst condition.

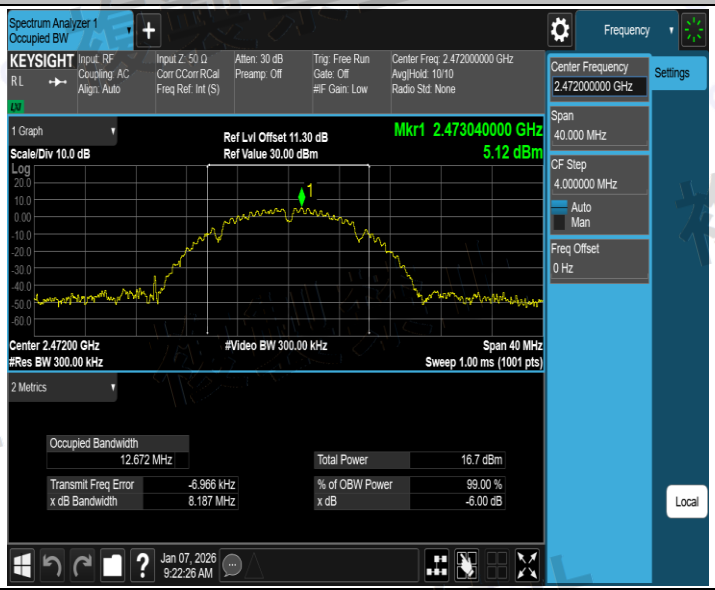
Test Graphs

NTNV_11B_Ant1_2412

NTNV_11B_Ant1_2442

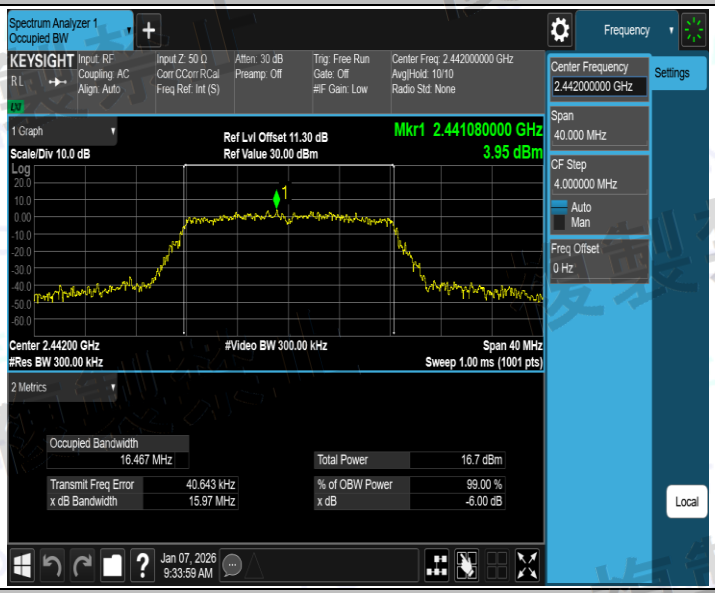


NTNV_11B_Ant1_2472



NTNV_11G_Ant1_2412

NTNV_11G_Ant1_2442



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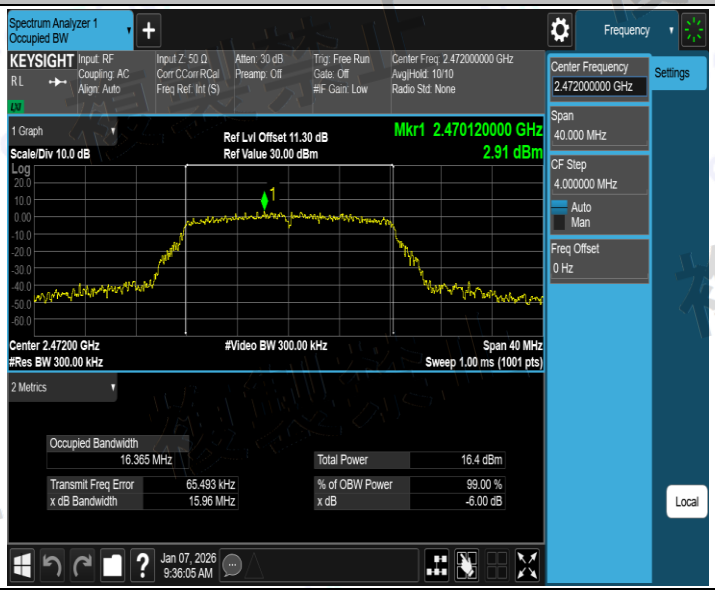
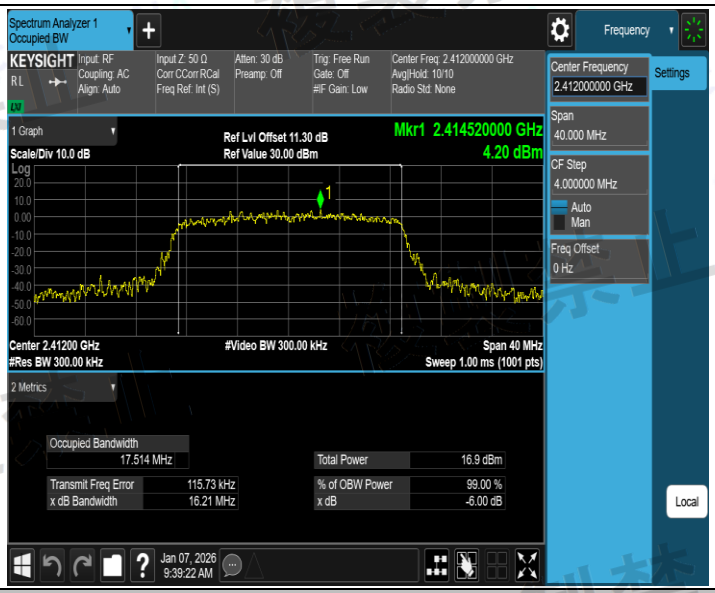


NTNV_11N20SISO_Ant1_2412



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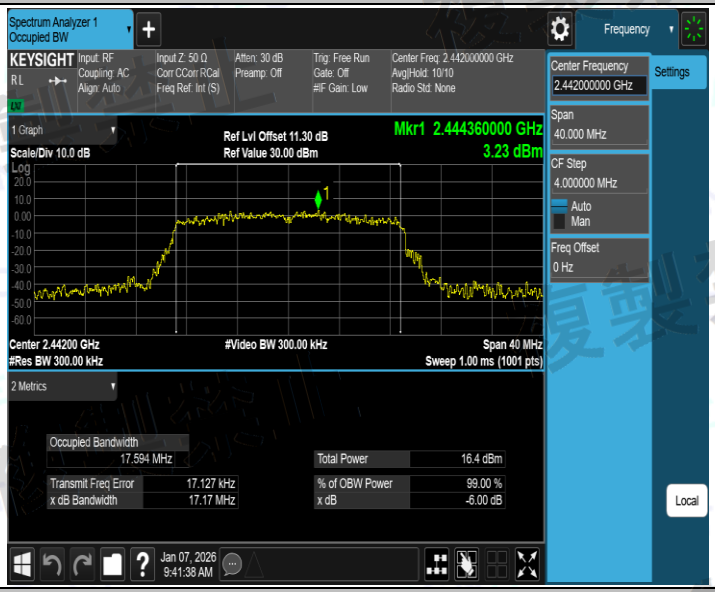

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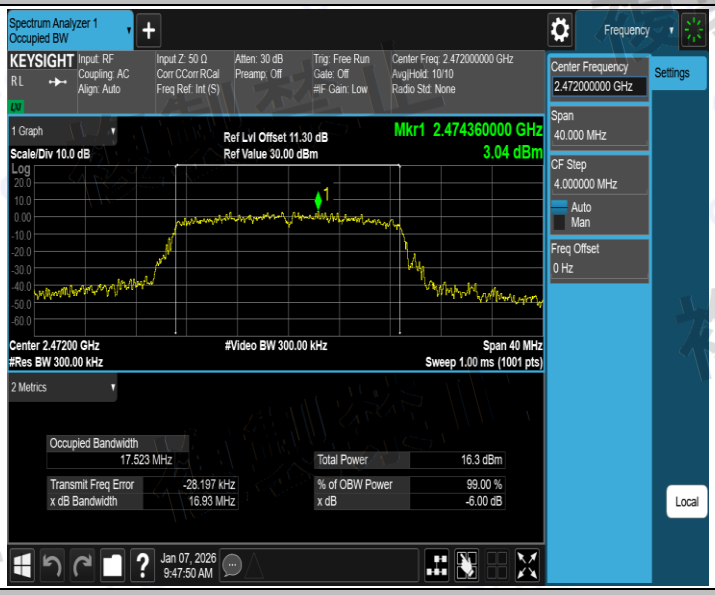

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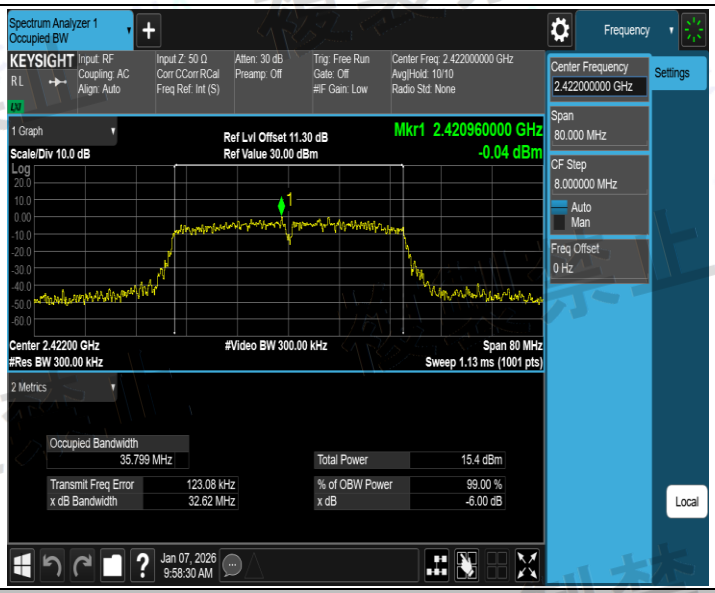

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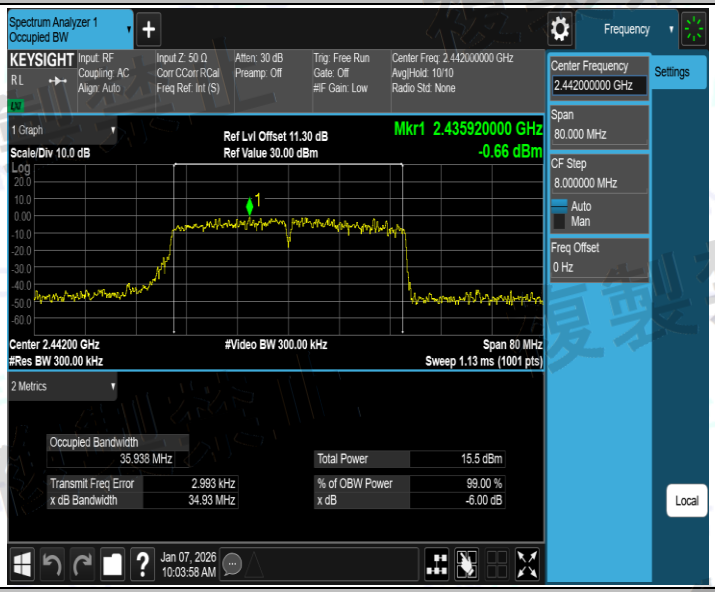
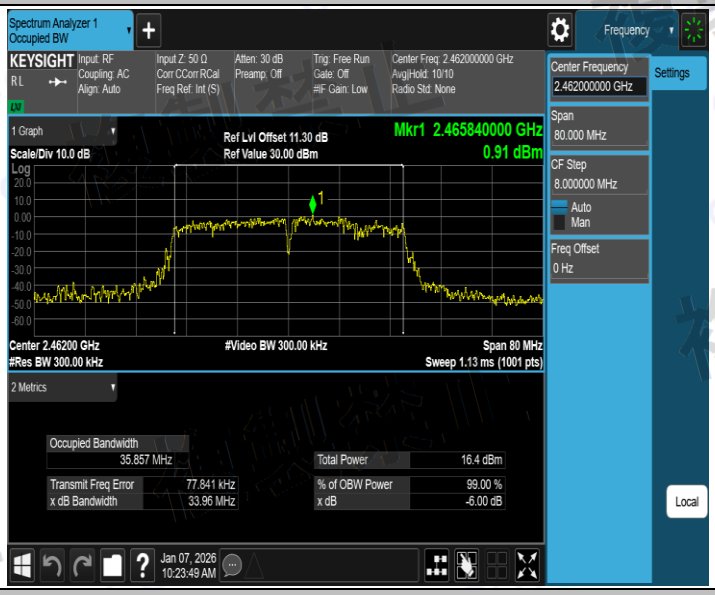
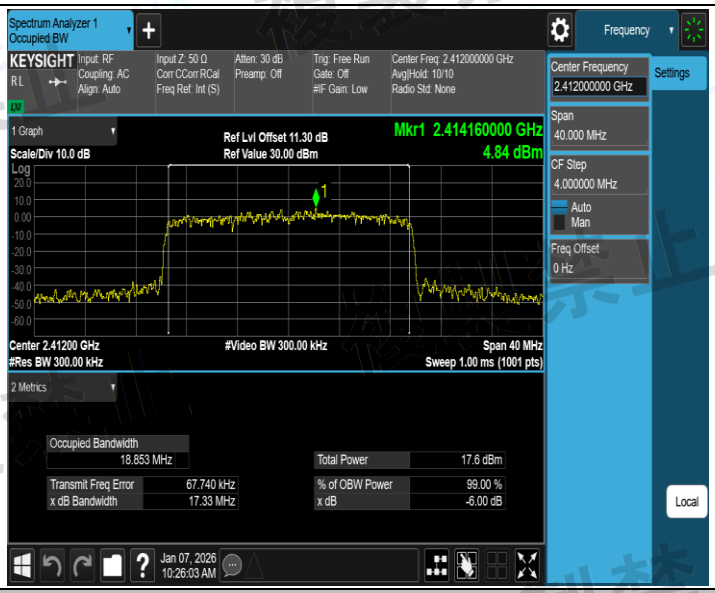


NTNV_11N40SISO_Ant1_2462



NTNV_11AX20SISO_Ant1_2412



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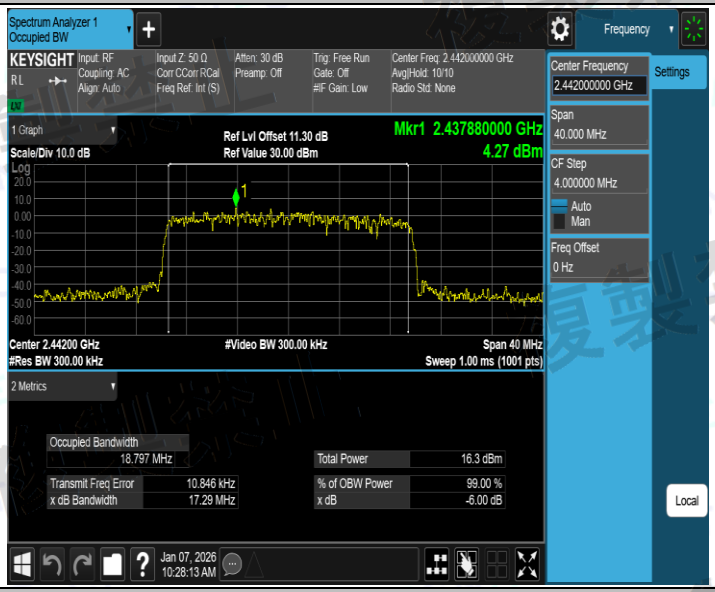

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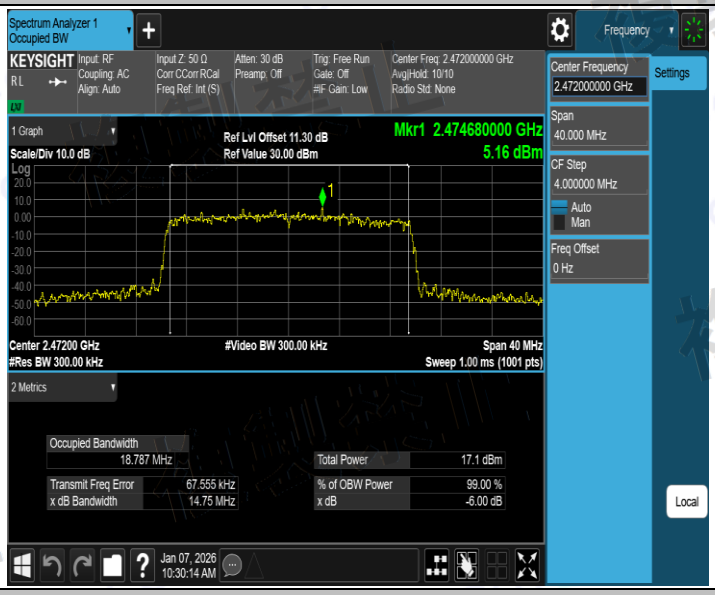
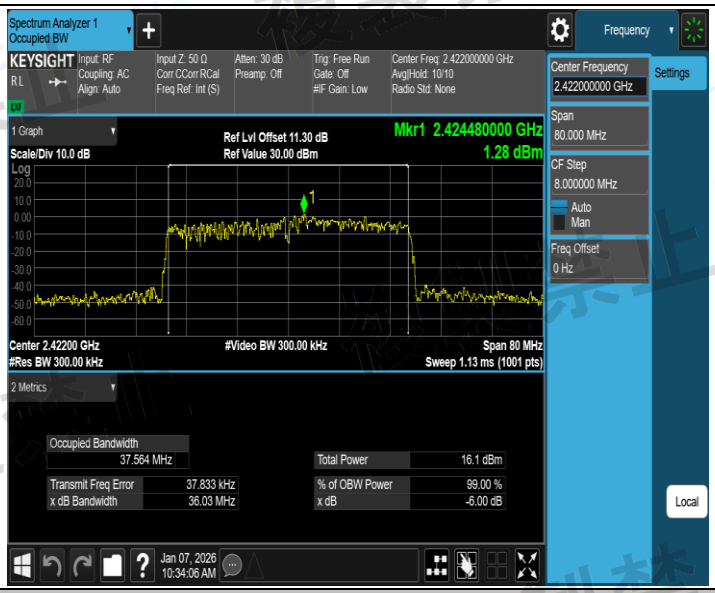
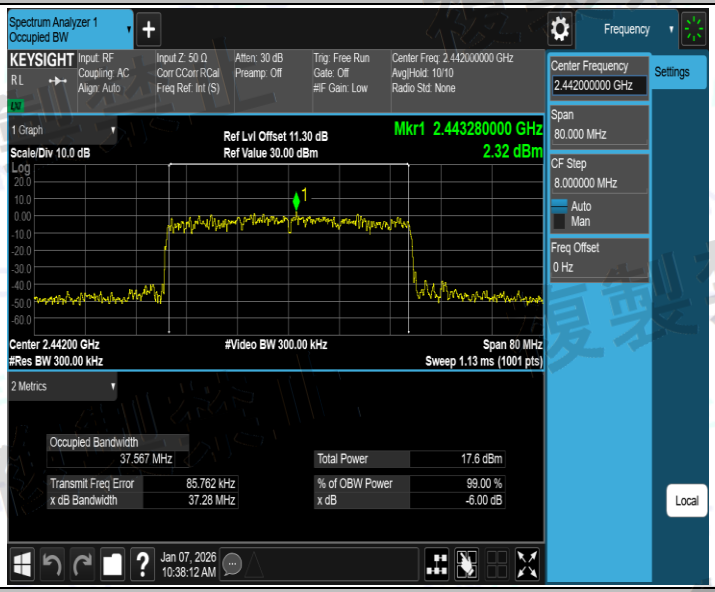


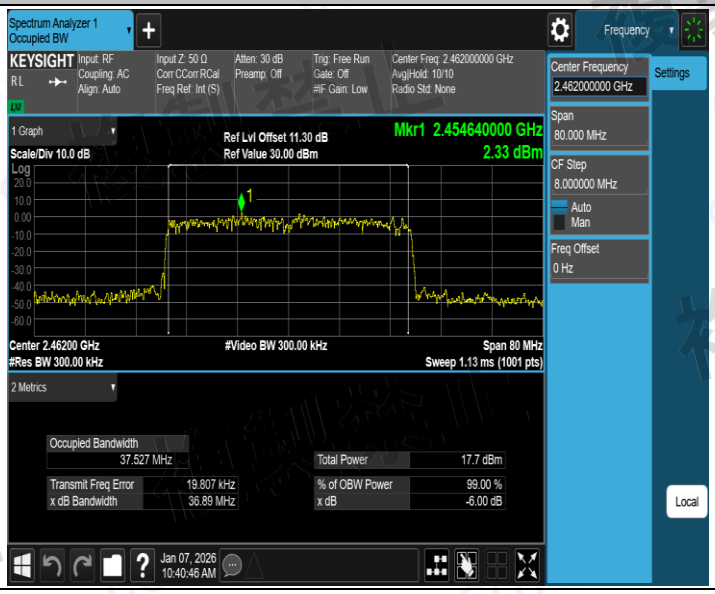
NTNV_11AX40SISO_Ant1_2422



NTNV_11AX40SISO_Ant1_2442



NTNV_11AX40SISO_Ant1_2462



Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2412	8.093	≥0.5	5.886	>5	PASS
			2442	8.177	≥0.5	5.947	>5	PASS
			2472	8.146	≥0.5	5.924	>5	PASS
	11G	Ant1	2412	13.740	≥0.5	9.993	>5	PASS
			2442	14.091	≥0.5	10.248	>5	PASS
			2472	13.894	≥0.5	10.105	>5	PASS
	11N20SISO	Ant1	2412	14.667	≥0.5	10.667	>5	PASS
			2442	14.812	≥0.5	10.772	>5	PASS
			2472	14.859	≥0.5	10.807	>5	PASS
	11N40SISO	Ant1	2422	30.807	≥0.5	22.405	>5	PASS
			2442	30.049	≥0.5	21.854	>5	PASS
			2462	29.831	≥0.5	21.695	>5	PASS
	11AX20SISO	Ant1	2412	16.419	≥0.5	11.941	>5	PASS
			2442	16.081	≥0.5	11.695	>5	PASS
			2472	16.013	≥0.5	11.646	>5	PASS
	11AX40SISO	Ant1	2422	32.940	≥0.5	23.956	>5	PASS
			2442	33.156	≥0.5	24.113	>5	PASS
			2462	32.423	≥0.5	23.580	>5	PASS

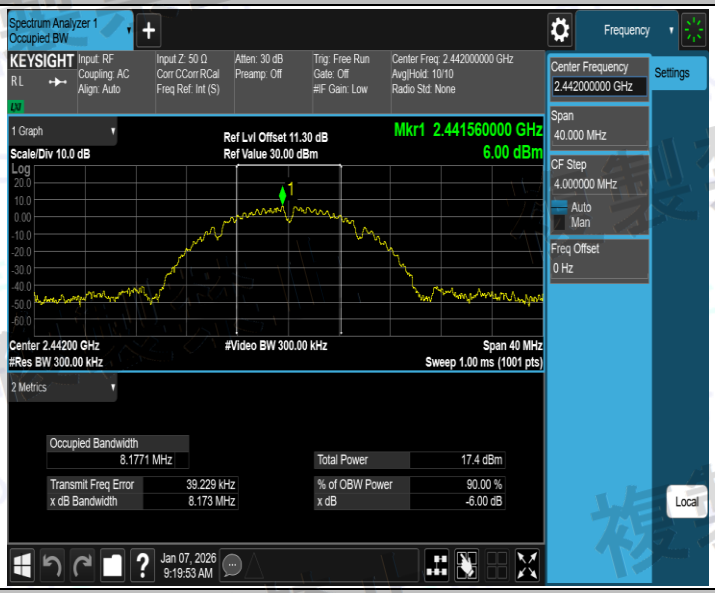
Remark: Only show the test data of worst condition.

Spreading Factor: 90% channel power bandwidth/1.375

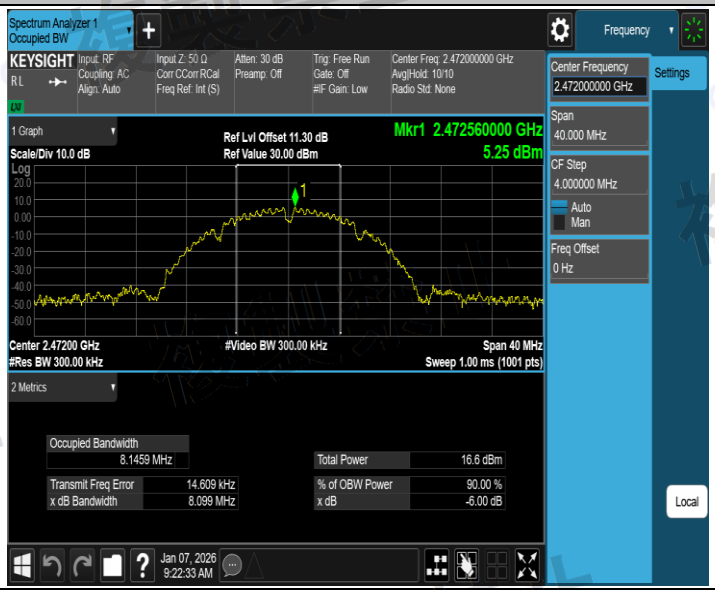
Test Graphs

NTNV_11B_Ant1_2412

NTNV_11B_Ant1_2442

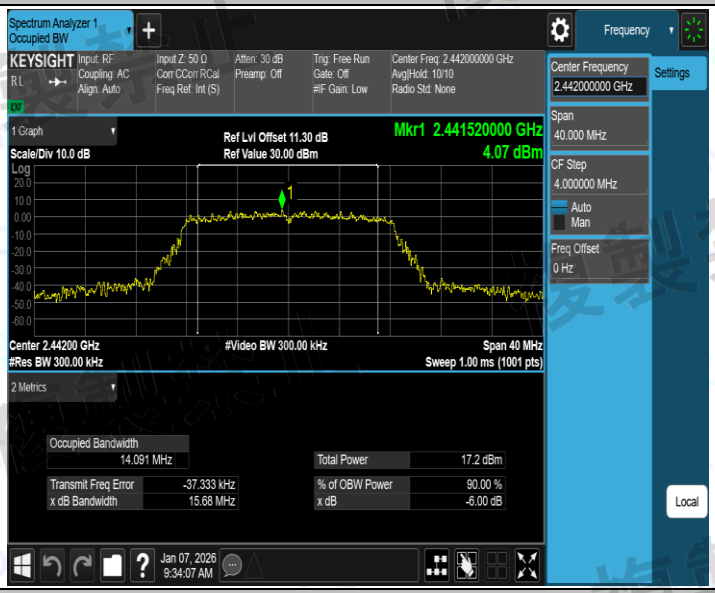


NTNV_11B_Ant1_2472



NTNV_11G_Ant1_2412

NTNV_11G_Ant1_2442



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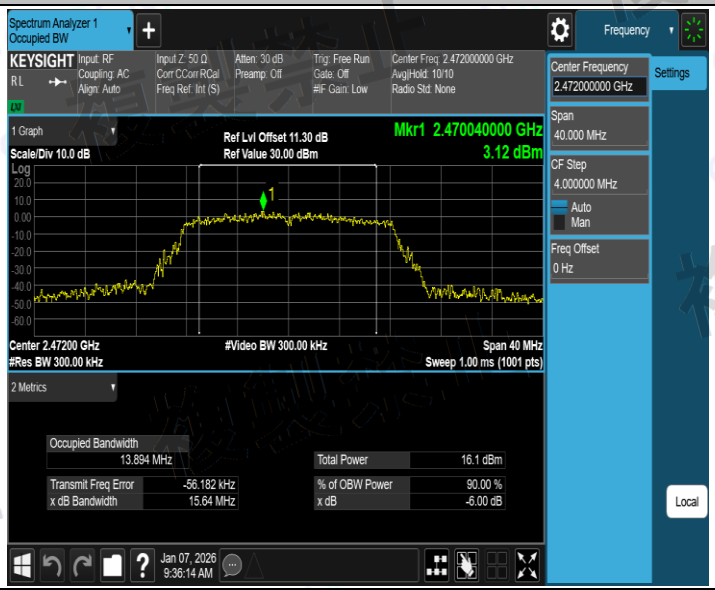
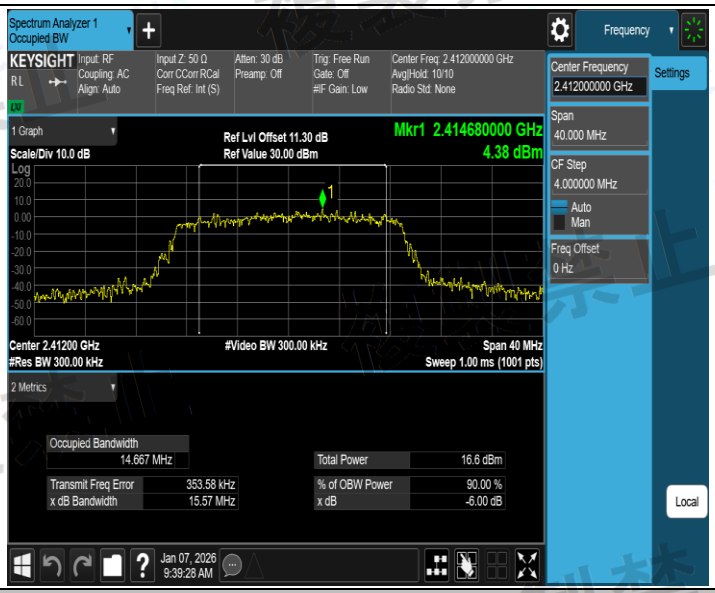
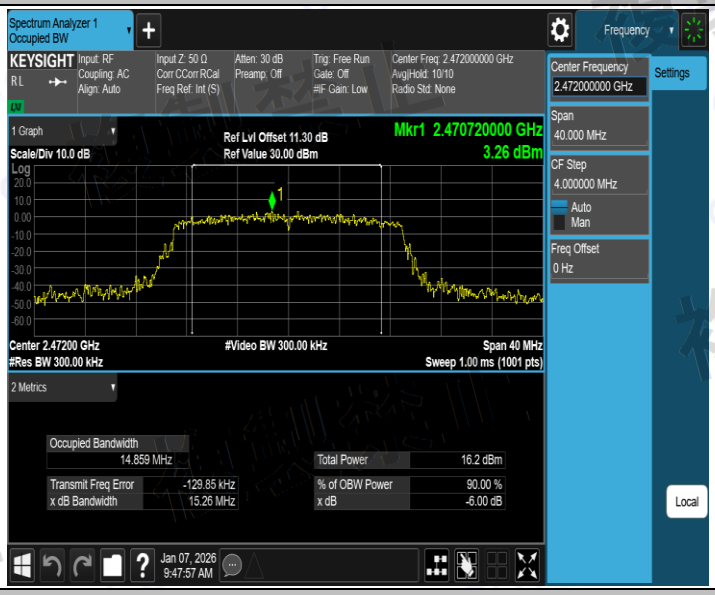


NTNV_11N20SISO_Ant1_2412

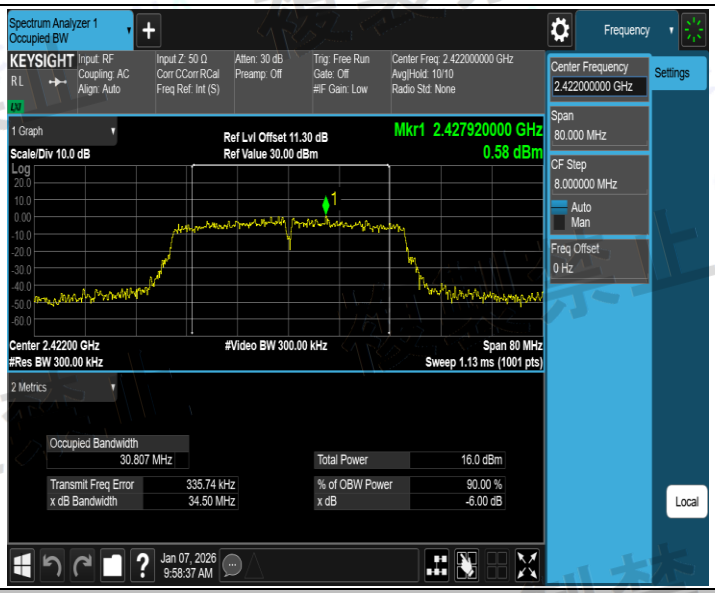


NTNV_11N20SISO_Ant1_2442

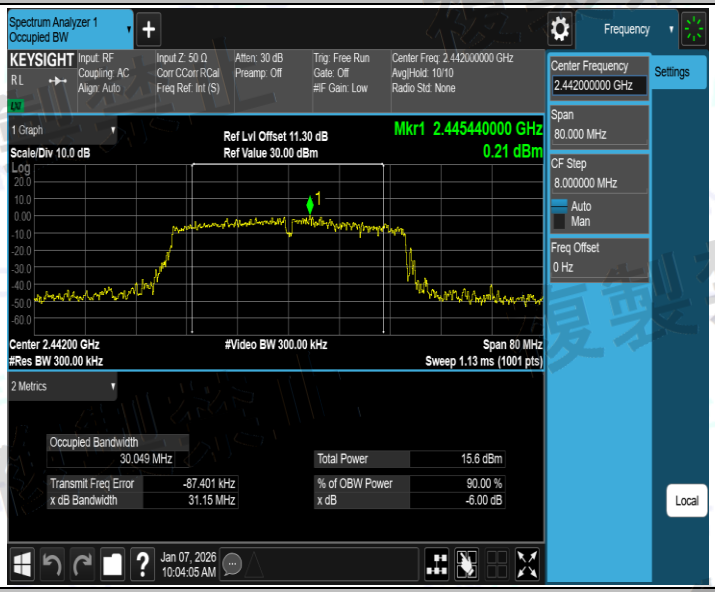
NTNV_11N20SISO_Ant1_2472



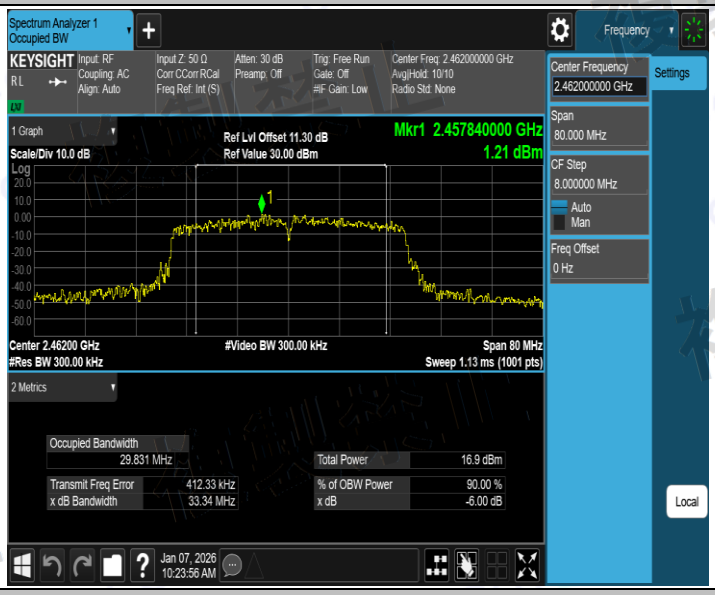
NTNV_11N40SISO_Ant1_2422



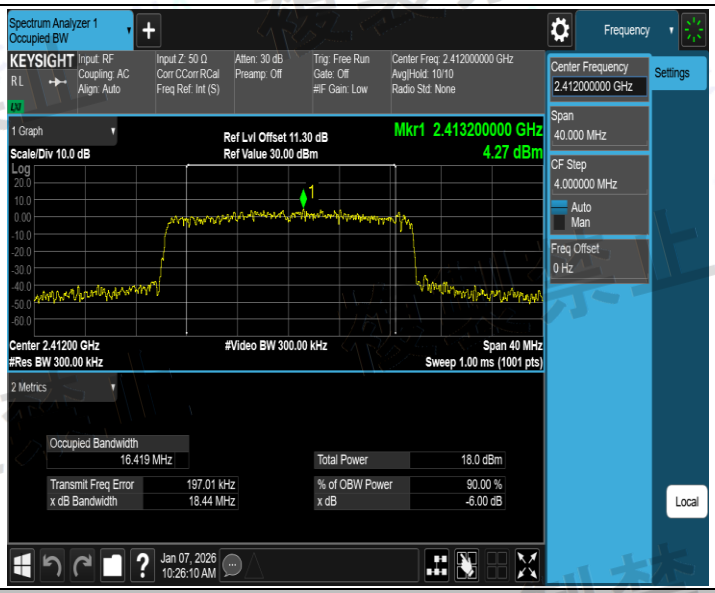
NTNV_11N40SISO_Ant1_2442



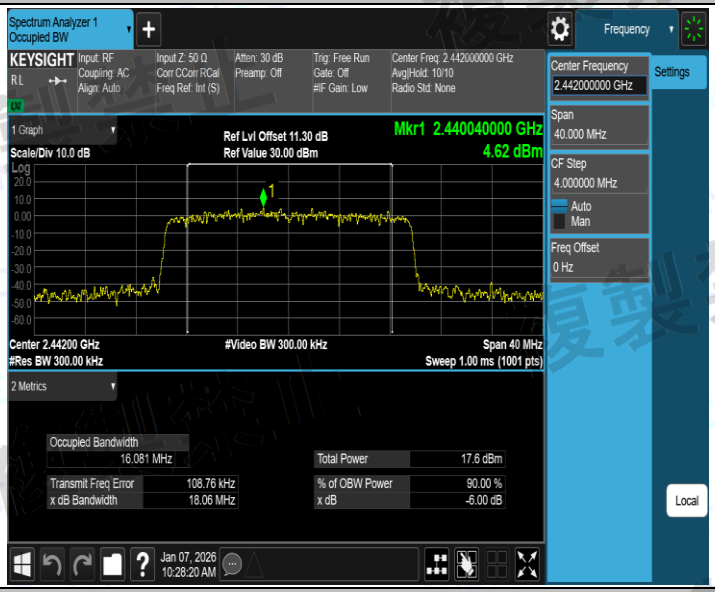
NTNV_11N40SISO_Ant1_2462



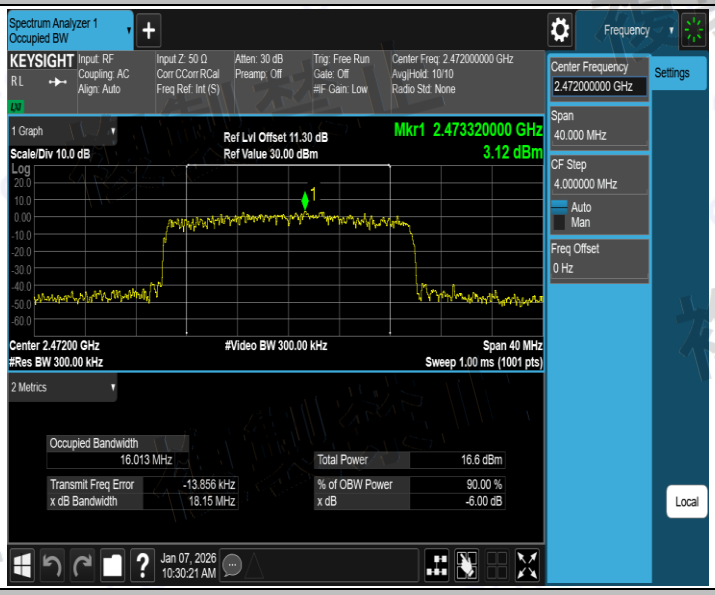
NTNV_11AX20SISO_Ant1_2412



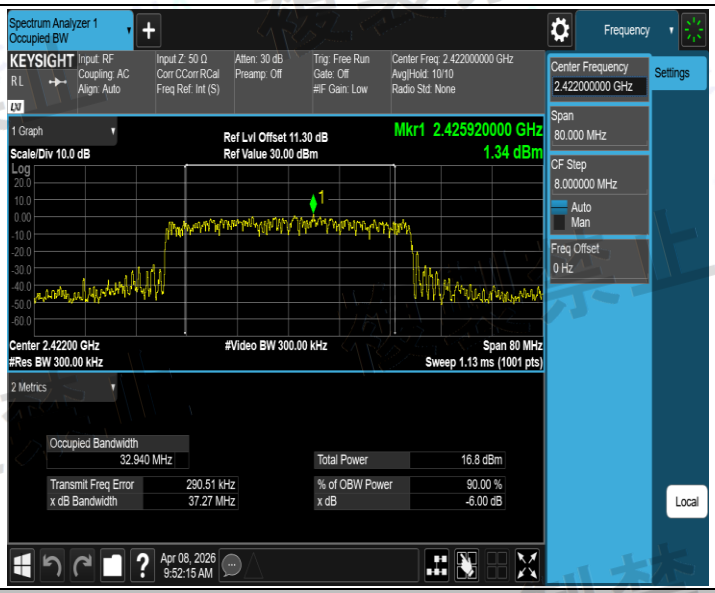
NTNV_11AX20SISO_Ant1_2442



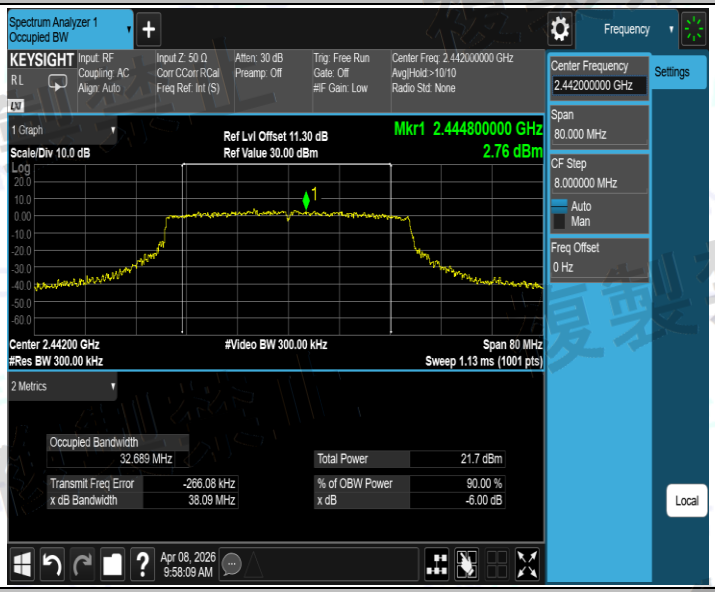
NTNV_11AX20SISO_Ant1_2472



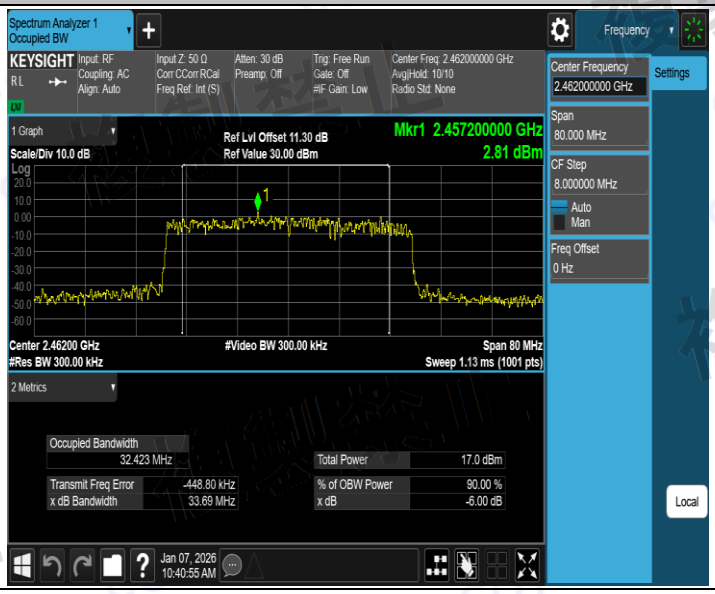
NTNV_11AX40SISO_Ant1_2422



NTNV_11AX40SISO_Ant1_2442



NTNV_11AX40SISO_Ant1_2462



Appendix E: Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-54.52	≤-26	0.00353	≤2.5	PASS
				1000~2387	-55.12	≤-26	0.00308	≤2.5	PASS
				2387~2400	-42.31	≤-16	0.05875	≤25	PASS
				2483.5~2496.5	-47.06	≤-16	0.01968	≤25	PASS
				2496.5~13000	-51.79	≤-26	0.00662	≤2.5	PASS
			2442	30~1000	-54.07	≤-26	0.00392	≤2.5	PASS
				1000~2387	-55.65	≤-26	0.00272	≤2.5	PASS
				2387~2400	-46.79	≤-16	0.02094	≤25	PASS
				2483.5~2496.5	-46.86	≤-16	0.02061	≤25	PASS
				2496.5~13000	-52.26	≤-26	0.00594	≤2.5	PASS
			2472	30~1000	-54.51	≤-26	0.00354	≤2.5	PASS
				1000~2387	-56.15	≤-26	0.00243	≤2.5	PASS
				2387~2400	-47.15	≤-16	0.01928	≤25	PASS
				2483.5~2496.5	-42.93	≤-16	0.05093	≤25	PASS
				2496.5~13000	-52.53	≤-26	0.00558	≤2.5	PASS
	11G	Ant1	2412	30~1000	-54.61	≤-26	0.00346	≤2.5	PASS
				1000~2387	-51.31	≤-26	0.00740	≤2.5	PASS
				2387~2400	-36.81	≤-16	0.20845	≤25	PASS
				2483.5~2496.5	-47.08	≤-16	0.01959	≤25	PASS
				2496.5~13000	-52.31	≤-26	0.00587	≤2.5	PASS
			2442	30~1000	-53.23	≤-26	0.00475	≤2.5	PASS
				1000~2387	-54.25	≤-26	0.00376	≤2.5	PASS
				2387~2400	-46.77	≤-16	0.02104	≤25	PASS
				2483.5~2496.5	-47.10	≤-16	0.01950	≤25	PASS
				2496.5~13000	-51.92	≤-26	0.00643	≤2.5	PASS
			2472	30~1000	-54.27	≤-26	0.00374	≤2.5	PASS
				1000~2387	-55.56	≤-26	0.00278	≤2.5	PASS
				2387~2400	-47.02	≤-16	0.01986	≤25	PASS
				2483.5~2496.5	-38.90	≤-16	0.12882	≤25	PASS
				2496.5~13000	-52.81	≤-26	0.00524	≤2.5	PASS
	11N20SISO	Ant1	2412	30~1000	-54.46	≤-26	0.00358	≤2.5	PASS
				1000~2387	-50.63	≤-26	0.00865	≤2.5	PASS
				2387~2400	-36.74	≤-16	0.21184	≤25	PASS
				2483.5~2496.5	-46.95	≤-16	0.02018	≤25	PASS
				2496.5~13000	-52.67	≤-26	0.00541	≤2.5	PASS
			2442	30~1000	-54.24	≤-26	0.00377	≤2.5	PASS
				1000~2387	-54.81	≤-26	0.00330	≤2.5	PASS
				2387~2400	-46.59	≤-16	0.02193	≤25	PASS
				2483.5~2496.5	-46.79	≤-16	0.02094	≤25	PASS

				2496.5~13000	-52.45	≤-26	0.00569	≤2.5	PASS
			2472	30~1000	-54.45	≤-26	0.00359	≤2.5	PASS
				1000~2387	-55.19	≤-26	0.00303	≤2.5	PASS
				2387~2400	-46.87	≤-16	0.02056	≤25	PASS
				2483.5~2496.5	-36.86	≤-16	0.20606	≤25	PASS
				2496.5~13000	-52.62	≤-26	0.00547	≤2.5	PASS
	11N40SISO	Ant1	2422	30~1000	-54.04	≤-26	0.00394	≤2.5	PASS
				1000~2387	-47.93	≤-26	0.01611	≤2.5	PASS
				2387~2400	-39.75	≤-16	0.10593	≤25	PASS
				2483.5~2496.5	-47.03	≤-16	0.01982	≤25	PASS
				2496.5~13000	-52.40	≤-26	0.00575	≤2.5	PASS
			2442	30~1000	-53.99	≤-26	0.00399	≤2.5	PASS
				1000~2387	-53.13	≤-26	0.00486	≤2.5	PASS
				2387~2400	-46.00	≤-16	0.02512	≤25	PASS
				2483.5~2496.5	-46.28	≤-16	0.02355	≤25	PASS
				2496.5~13000	-52.41	≤-26	0.00574	≤2.5	PASS
			2462	30~1000	-54.42	≤-26	0.00361	≤2.5	PASS
				1000~2387	-54.60	≤-26	0.00347	≤2.5	PASS
				2387~2400	-46.65	≤-16	0.02163	≤25	PASS
				2483.5~2496.5	-36.64	≤-16	0.21677	≤25	PASS
				2496.5~13000	-52.06	≤-26	0.00622	≤2.5	PASS
	11AX20SISO	Ant1	2412	30~1000	-53.19	≤-26	0.00480	≤2.5	PASS
				1000~2387	-50.70	≤-26	0.00851	≤2.5	PASS
				2387~2400	-39.95	≤-16	0.10116	≤25	PASS
				2483.5~2496.5	-46.99	≤-16	0.02000	≤25	PASS
				2496.5~13000	-52.80	≤-26	0.00525	≤2.5	PASS
			2442	30~1000	-53.62	≤-26	0.00435	≤2.5	PASS
				1000~2387	-55.02	≤-26	0.00315	≤2.5	PASS
				2387~2400	-46.90	≤-16	0.02042	≤25	PASS
				2483.5~2496.5	-46.68	≤-16	0.02148	≤25	PASS
				2496.5~13000	-51.61	≤-26	0.00690	≤2.5	PASS
			2472	30~1000	-54.31	≤-26	0.00371	≤2.5	PASS
				1000~2387	-56.06	≤-26	0.00248	≤2.5	PASS
				2387~2400	-46.78	≤-16	0.02099	≤25	PASS
				2483.5~2496.5	-41.61	≤-16	0.06902	≤25	PASS
				2496.5~13000	-52.56	≤-26	0.00555	≤2.5	PASS
	11AX40SISO	Ant1	2422	30~1000	-54.16	≤-26	0.00384	≤2.5	PASS
				1000~2387	-52.66	≤-26	0.00542	≤2.5	PASS
				2387~2400	-42.68	≤-16	0.05395	≤25	PASS
				2483.5~2496.5	-46.90	≤-16	0.02042	≤25	PASS
				2496.5~13000	-52.61	≤-26	0.00548	≤2.5	PASS
			2442	30~1000	-53.92	≤-26	0.00406	≤2.5	PASS
				1000~2387	-53.72	≤-26	0.00425	≤2.5	PASS
				2387~2400	-45.91	≤-16	0.02564	≤25	PASS
				2483.5~2496.5	-46.41	≤-16	0.02286	≤25	PASS

				2496.5~13000	-52.28	≤-26	0.00592	≤2.5	PASS
			2462	30~1000	-54.38	≤-26	0.00365	≤2.5	PASS
				1000~2387	-54.57	≤-26	0.00349	≤2.5	PASS
				2387~2400	-46.90	≤-16	0.02042	≤25	PASS
				2483.5~2496.5	-41.38	≤-16	0.07278	≤25	PASS
				2496.5~13000	-52.34	≤-26	0.00583	≤2.5	PASS

Remark: Only show the test data of worst condition.

Note:SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format

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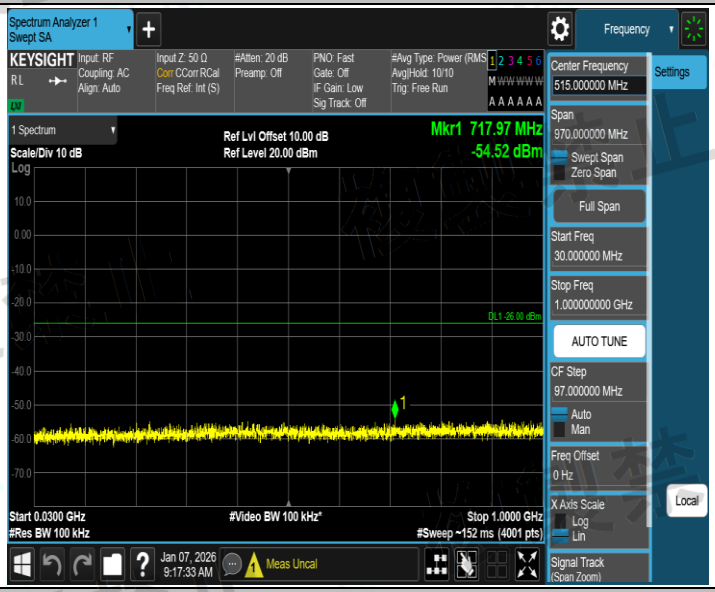
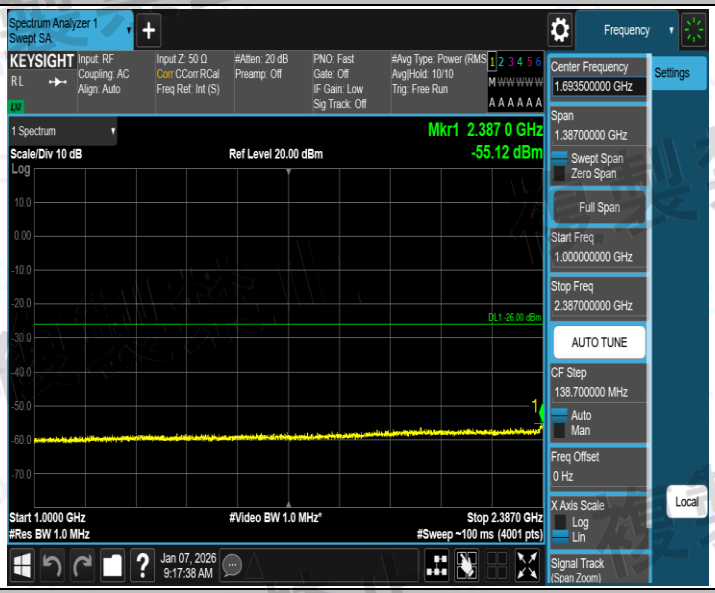
Test Graphs

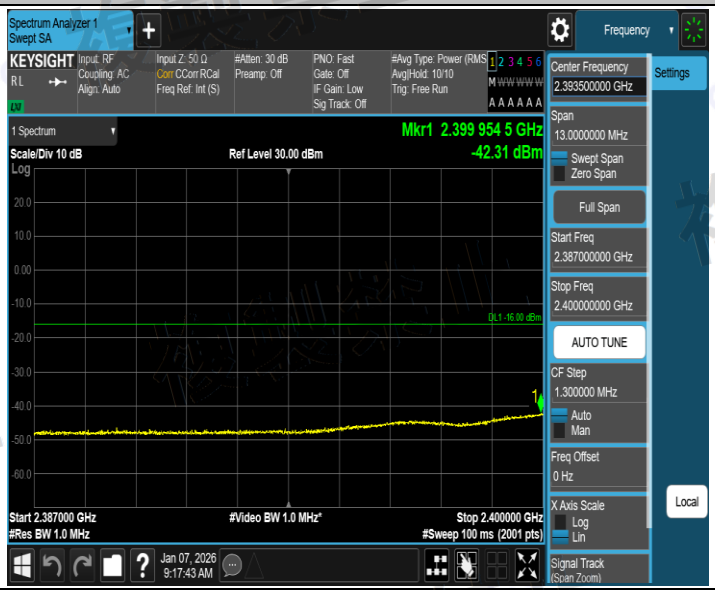
NTNV_11B_Ant1_2412_30~1000



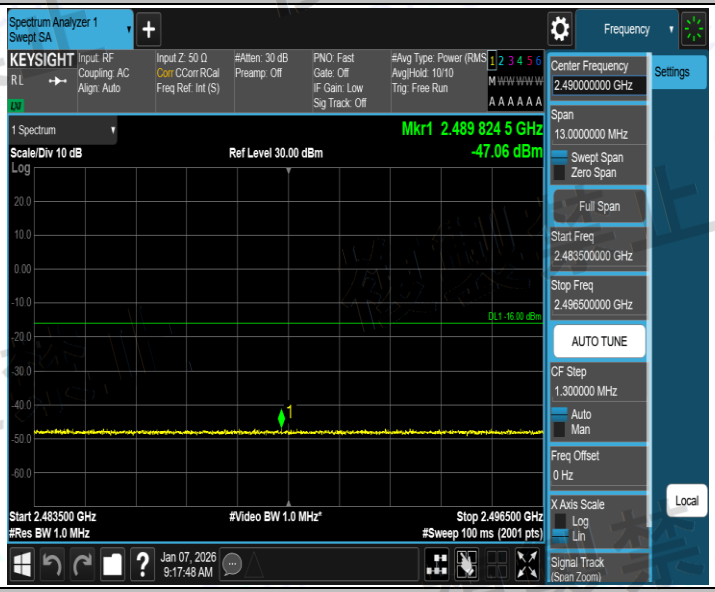
NTNV_11B_Ant1_2412_1000~2387



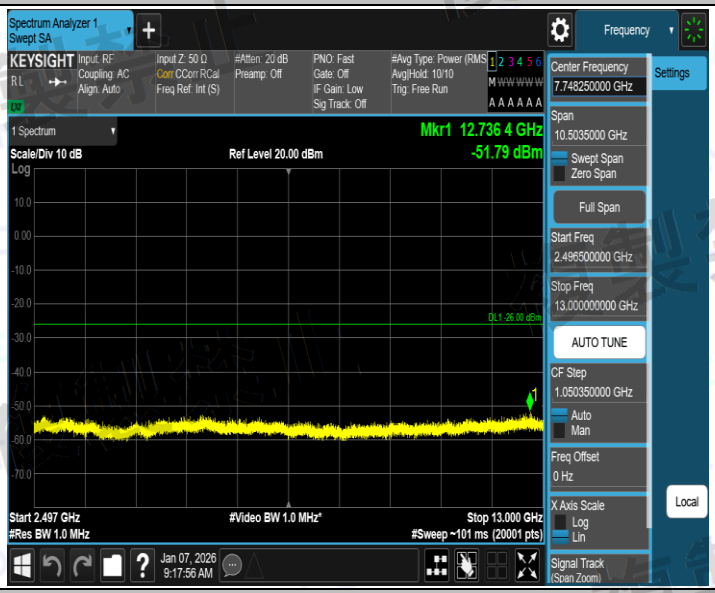
NTNV_11B_Ant1_2412_2387~2400



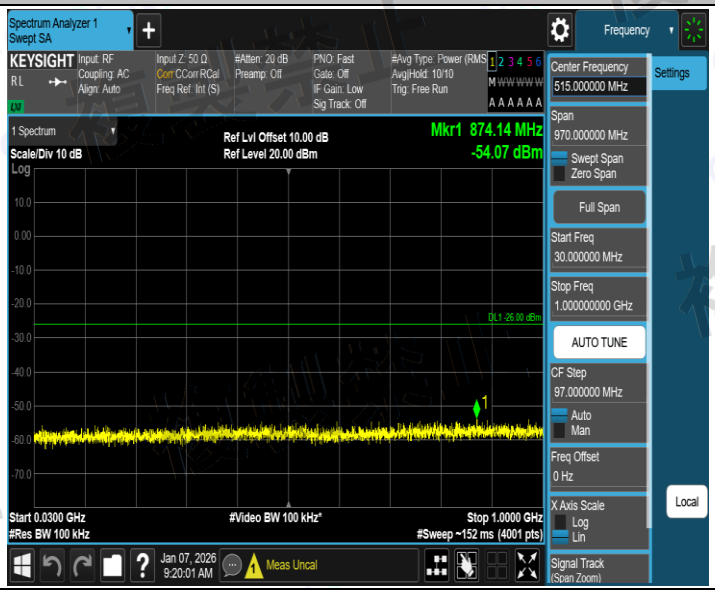
NTNV_11B_Ant1_2412_2483.5~2496.5



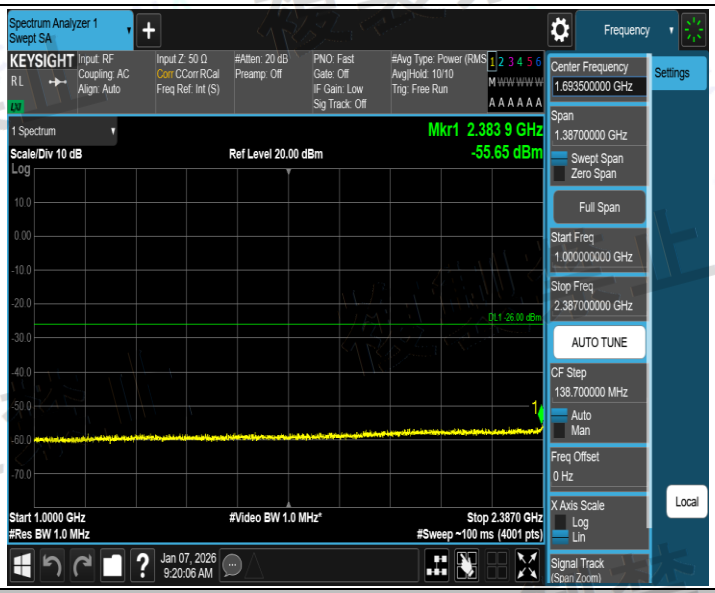
NTNV_11B_Ant1_2412_2496.5~13000



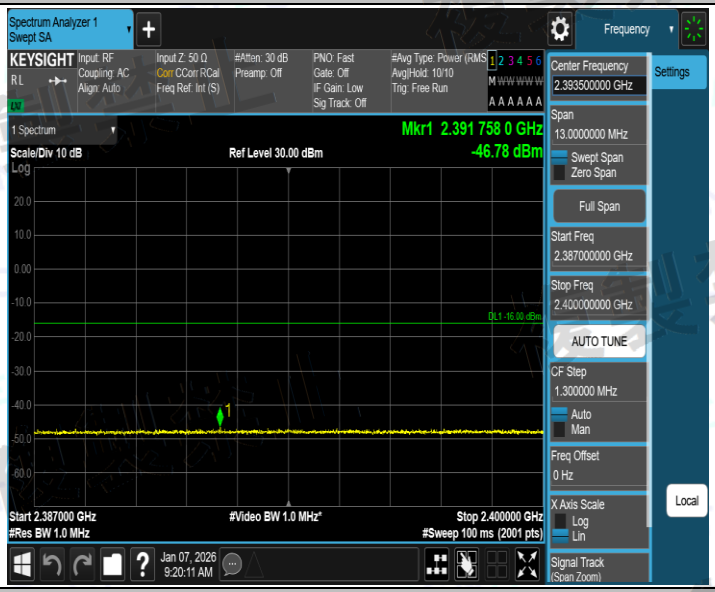
NTNV_11B_Ant1_2442_30~1000



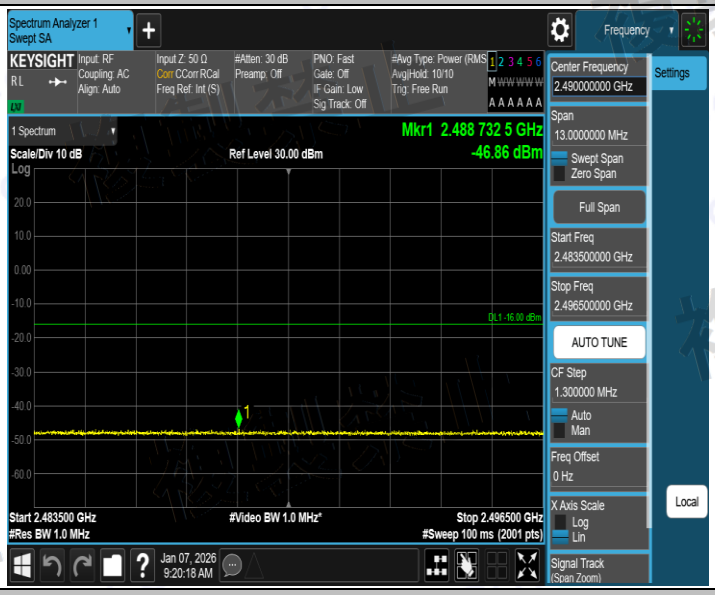
NTNV_11B_Ant1_2442_1000~2387



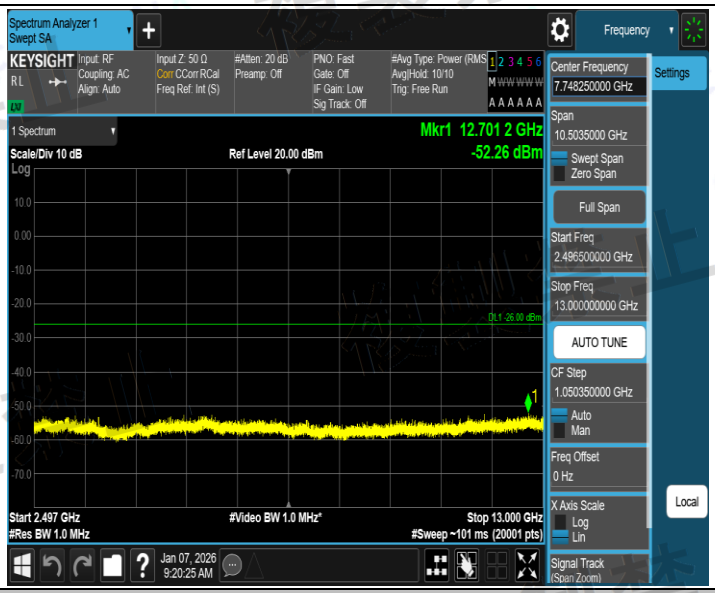
NTNV_11B_Ant1_2442_2387~2400



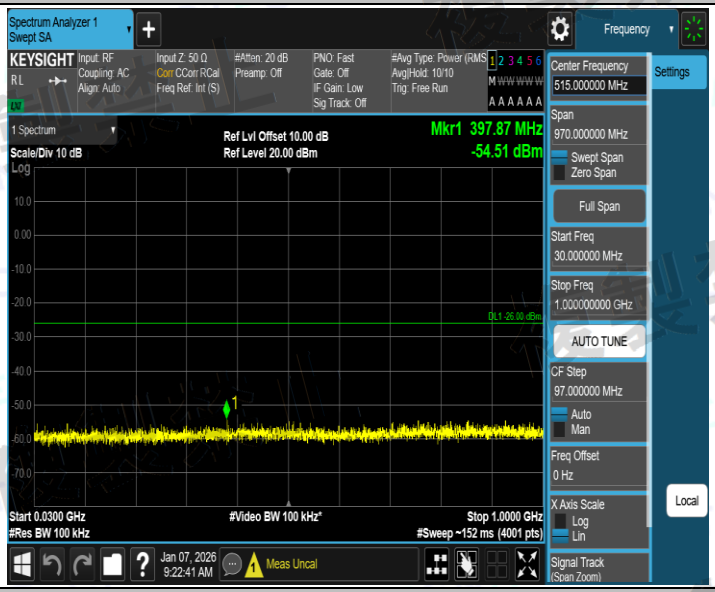
NTNV_11B_Ant1_2442_2483.5~2496.5



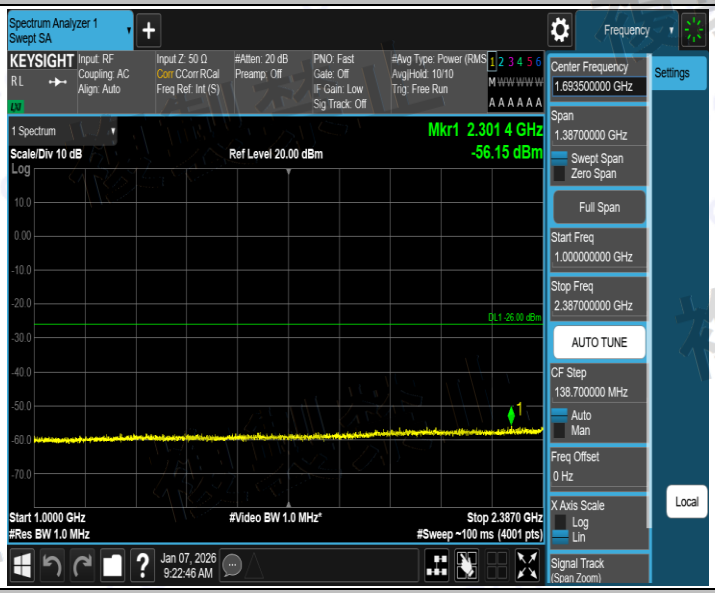
NTNV_11B_Ant1_2442_2496.5~13000



NTNV_11B_Ant1_2472_30~1000

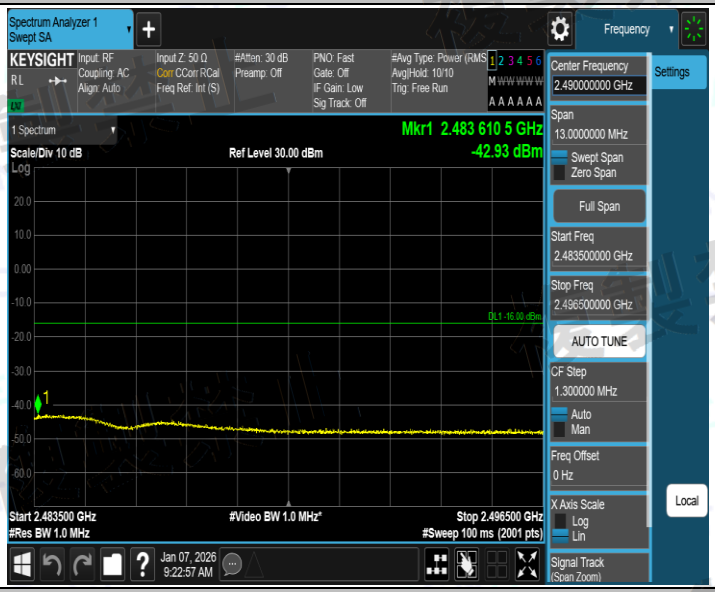


NTNV_11B_Ant1_2472_1000~2387

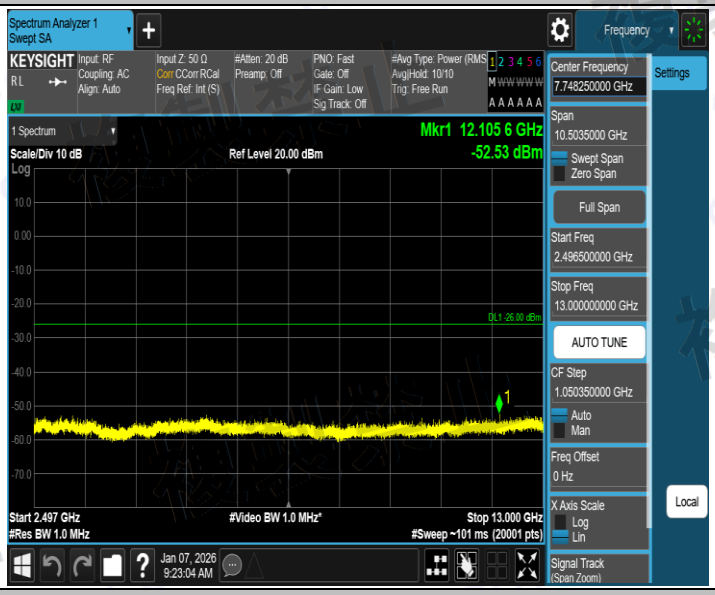


NTNV_11B_Ant1_2472_2387~2400

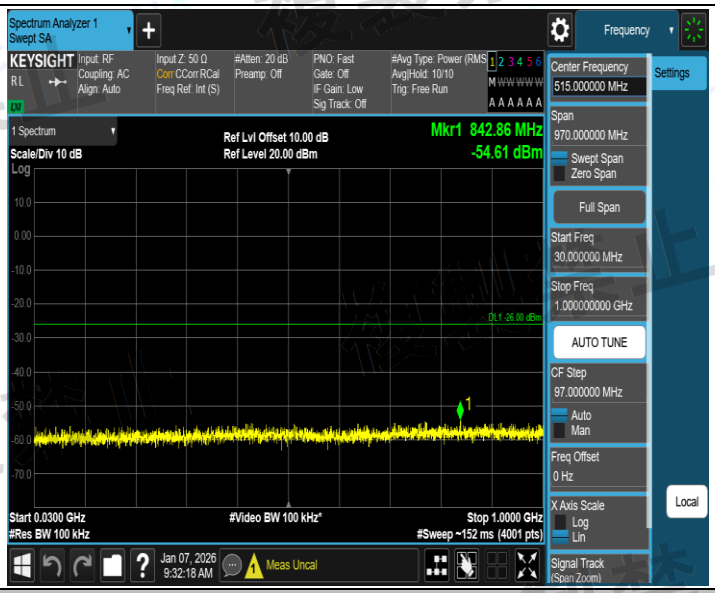
NTNV_11B_Ant1_2472_2483.5~2496.5



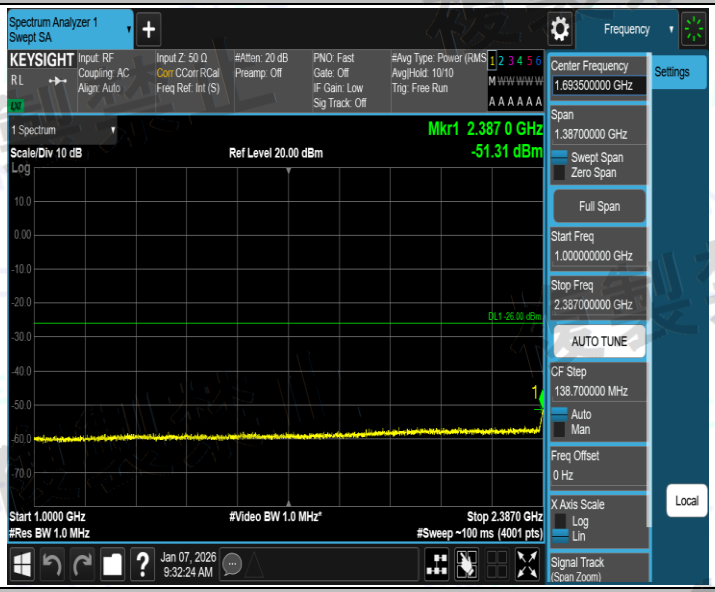
NTNV_11B_Ant1_2472_2496.5~13000



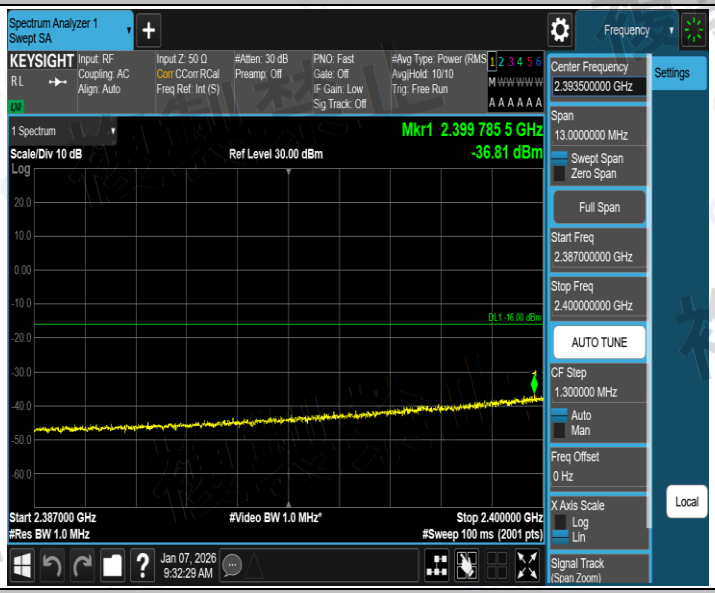
NTNV_11G_Ant1_2412_30~1000



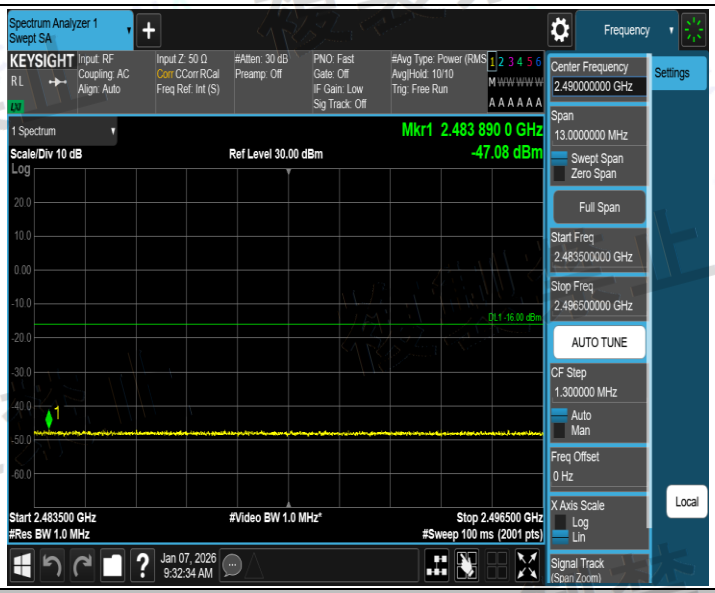
NTNV_11G_Ant1_2412_1000~2387



NTNV_11G_Ant1_2412_2387~2400



NTNV_11G_Ant1_2412_2483.5~2496.5



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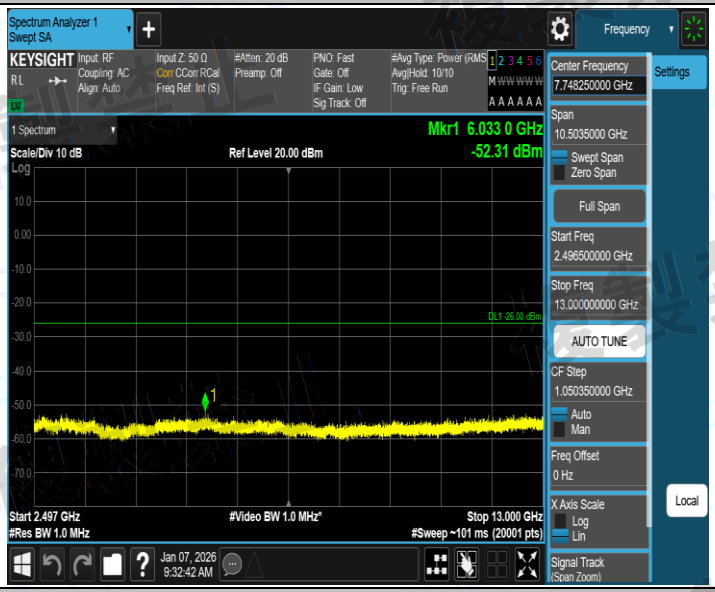

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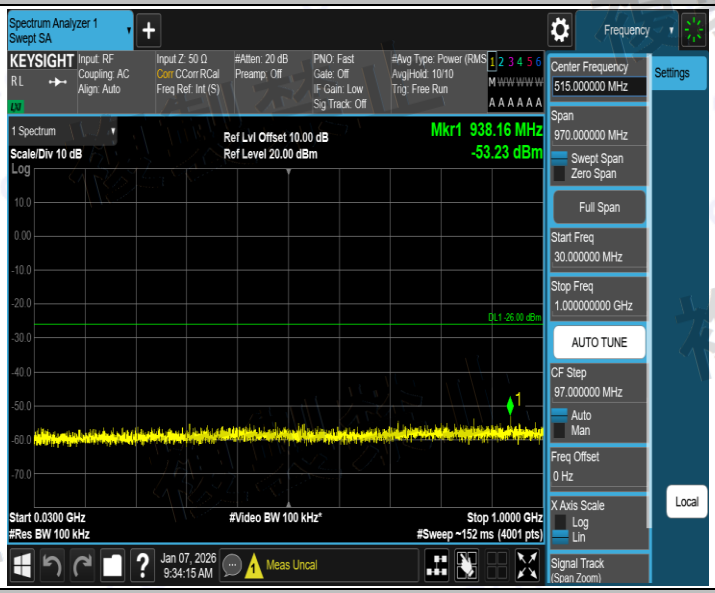
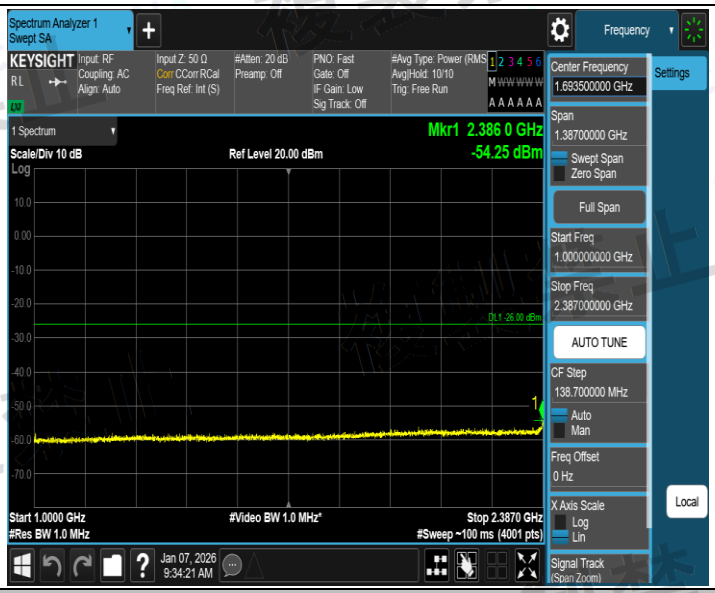
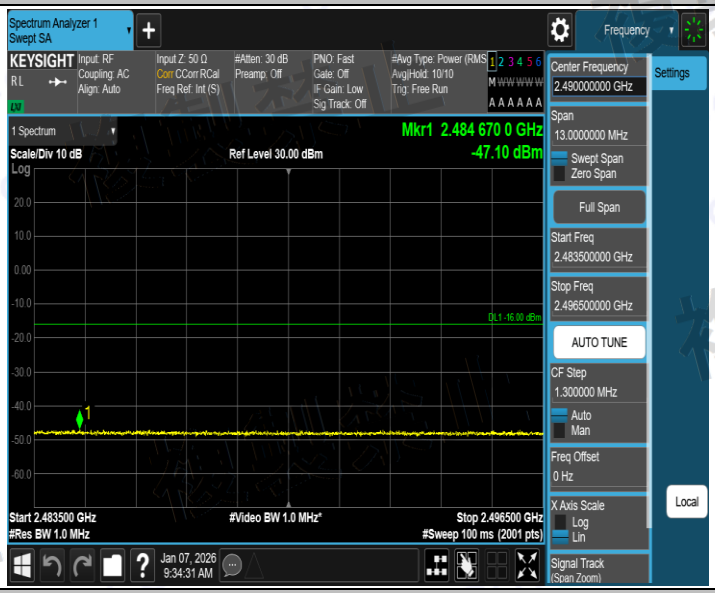


NTNV_11G_Ant1_2442_1000~2387

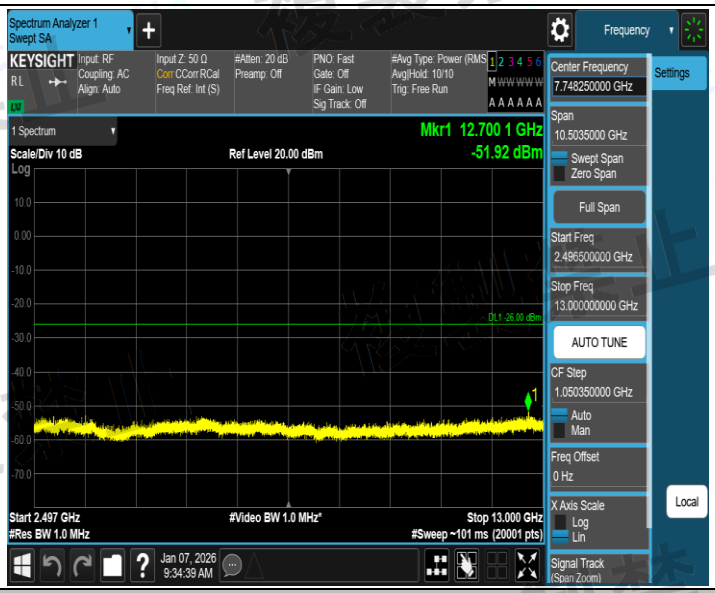


NTNV_11G_Ant1_2442_2387~2400

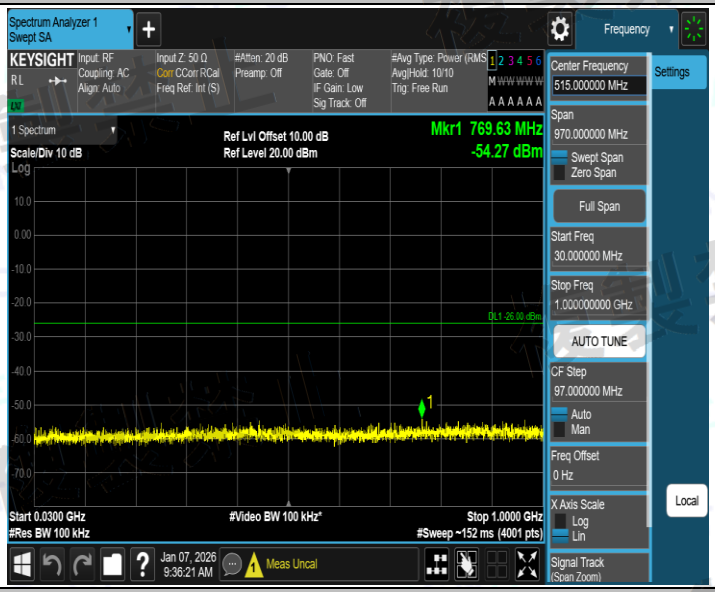
NTNV_11G_Ant1_2442_2483.5~2496.5



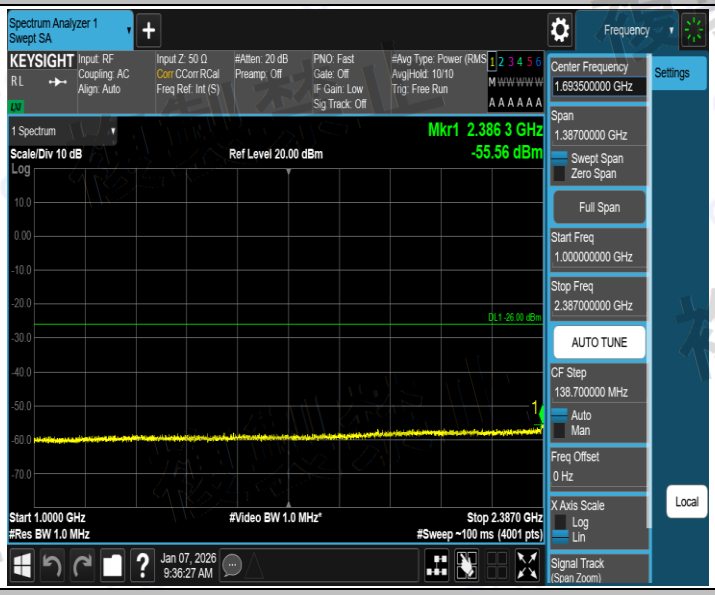
NTNV_11G_Ant1_2442_2496.5~13000



NTNV_11G_Ant1_2472_30~1000

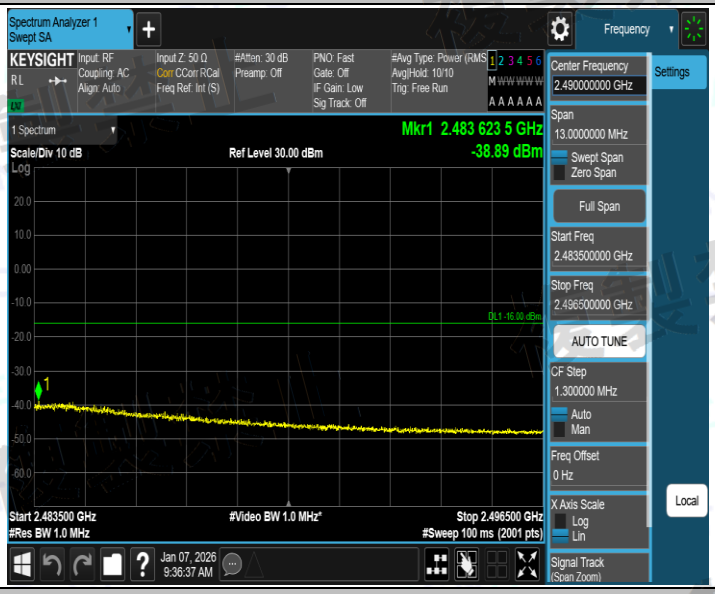


NTNV_11G_Ant1_2472_1000~2387

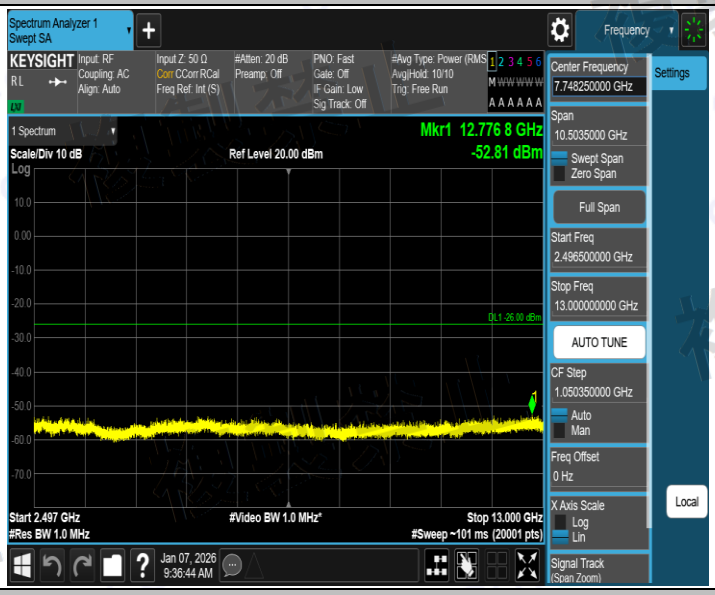


NTNV_11G_Ant1_2472_2387~2400

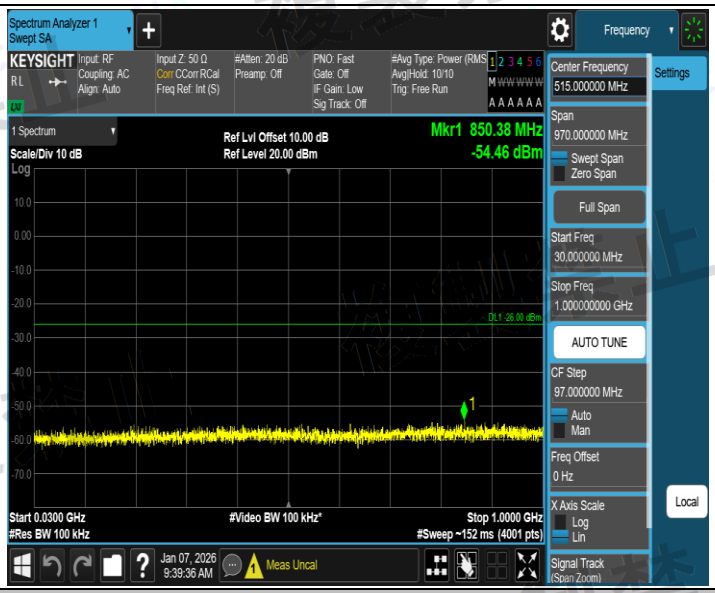
NTNV_11G_Ant1_2472_2483.5~2496.5



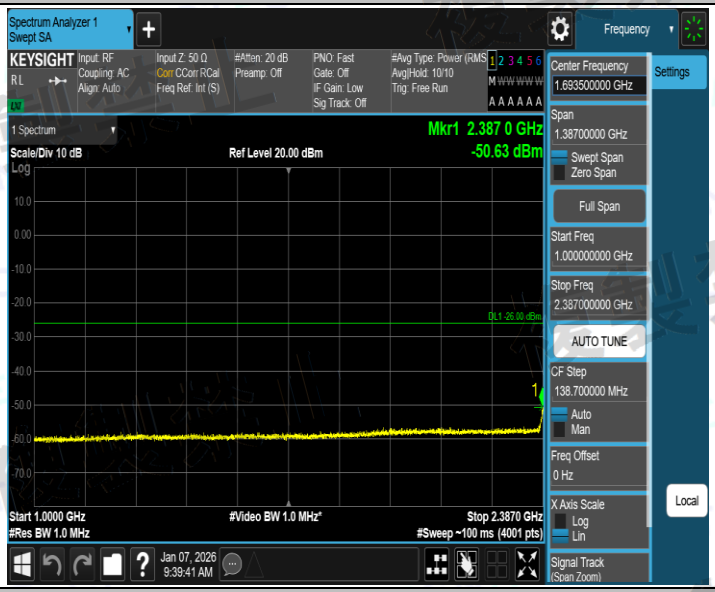
NTNV_11G_Ant1_2472_2496.5~13000



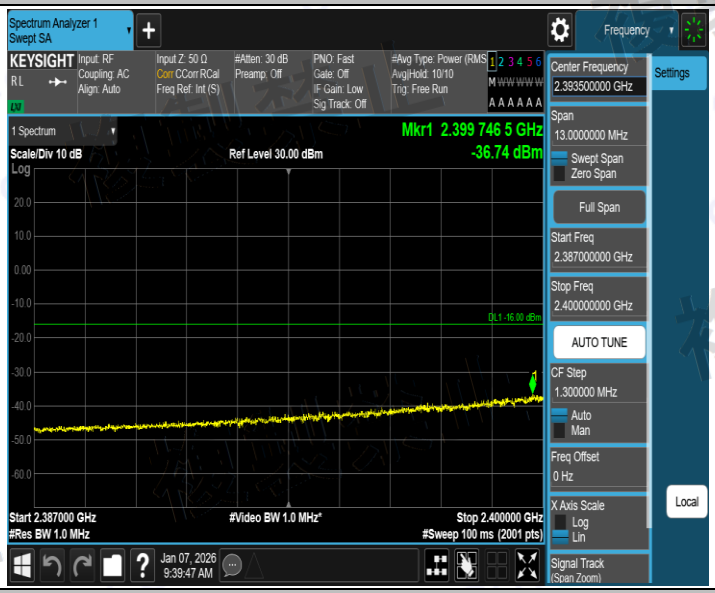
NTNV_11N20SISO_Ant1_2412_30~1000



NTNV_11N20SISO_Ant1_2412_1000~2387

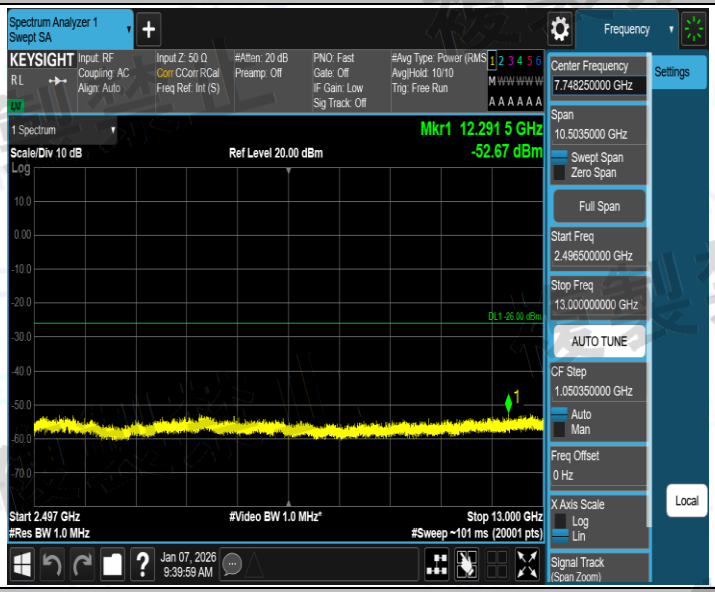


NTNV_11N20SISO_Ant1_2412_2387~2400



NTNV_11N20SISO_Ant1_2412_2483.5~2496.5

NTNV_11N20SISO_Ant1_2412_2496.5~13000



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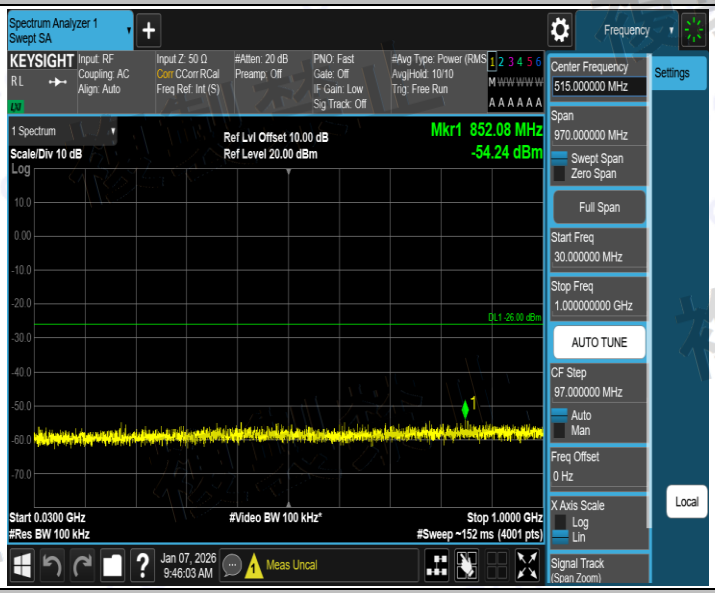

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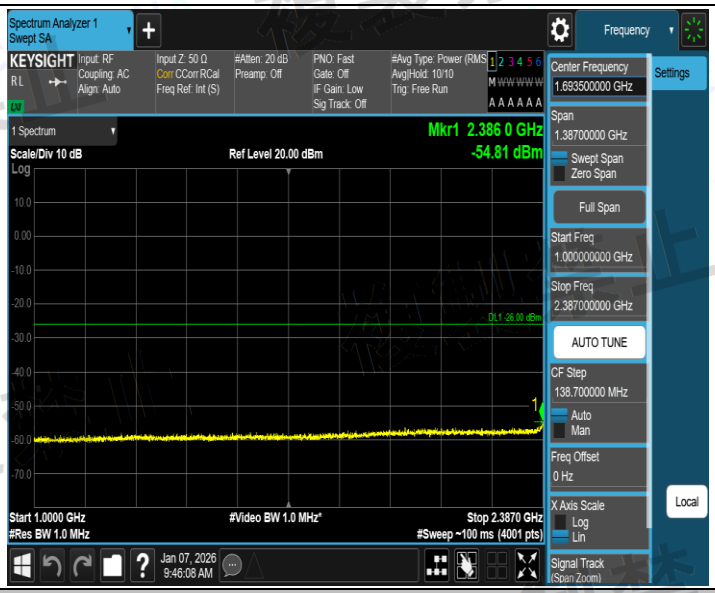
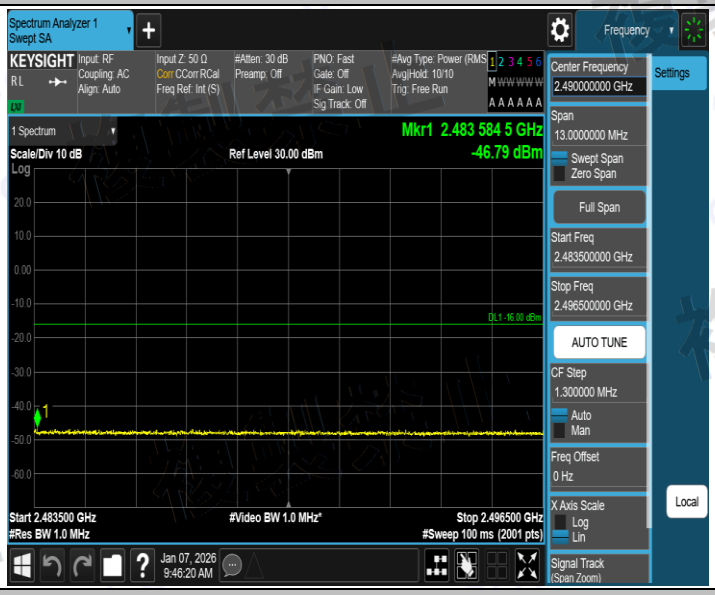


NTNV_11N20SISO_Ant1_2442_2387~2400

NTNV_11N20SISO_Ant1_2442_2483.5~2496.5



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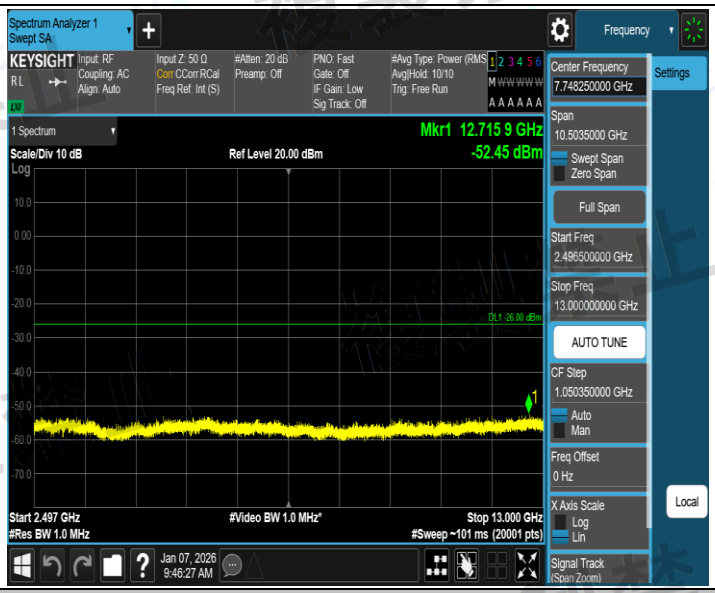

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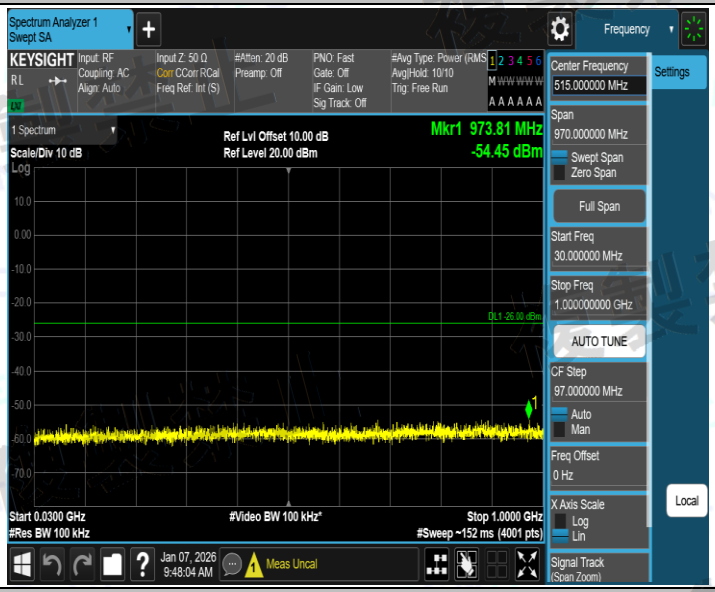

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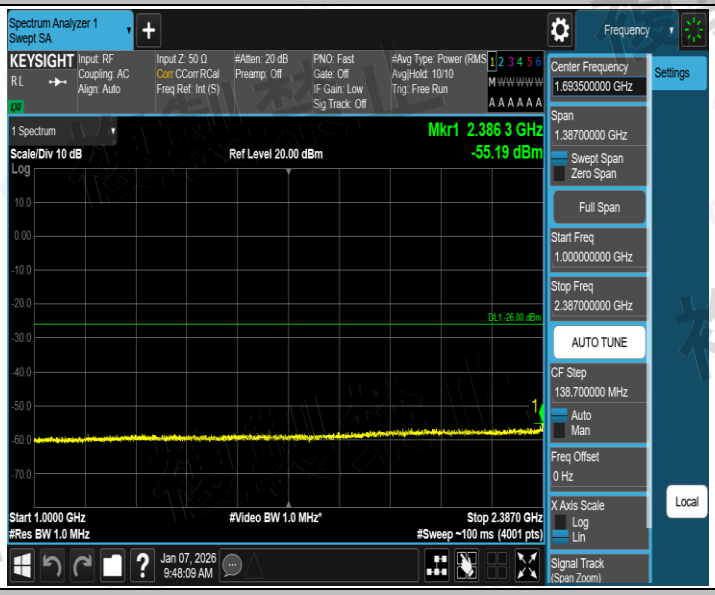
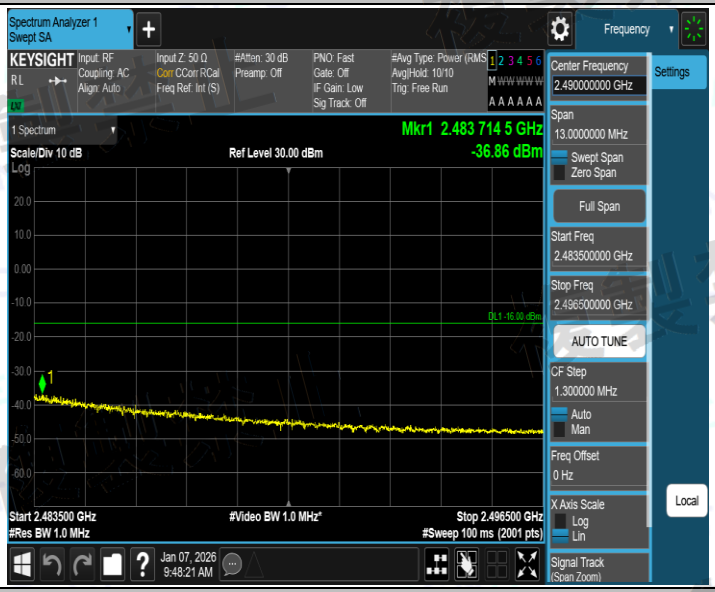


NTNV_11N20SISO_Ant1_2472_2387~2400

NTNV_11N20SISO_Ant1_2472_2483.5~2496.5



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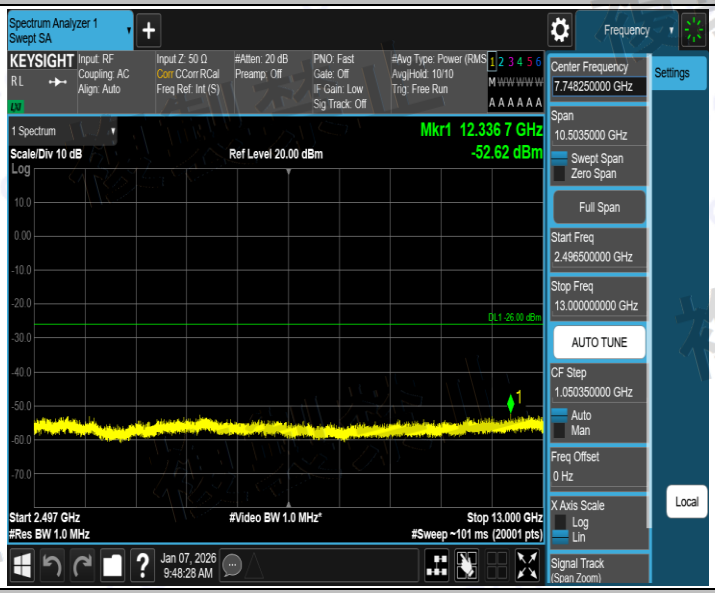

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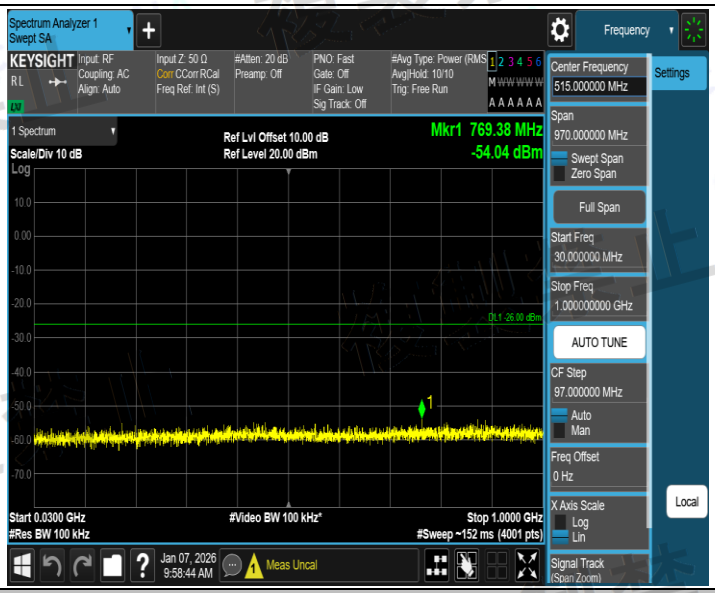

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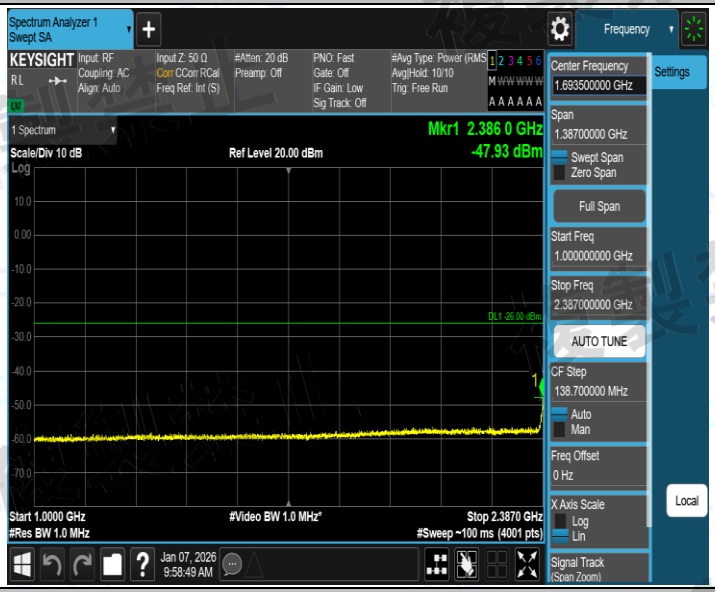

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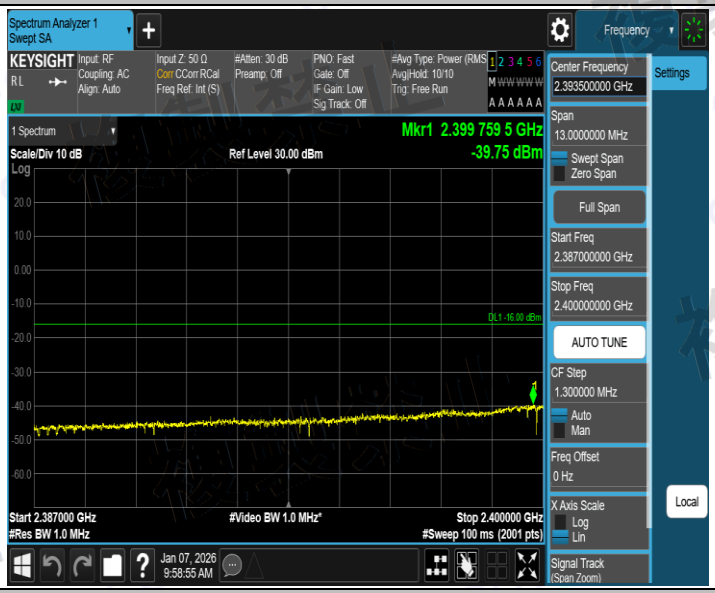
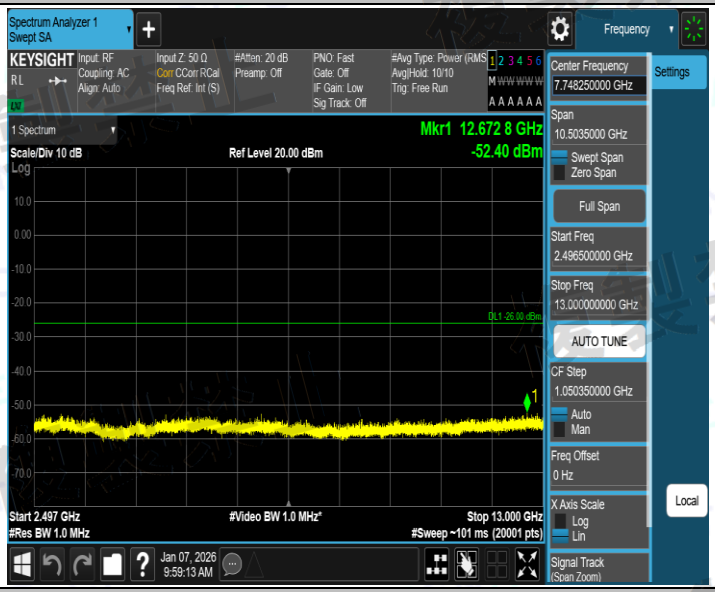


NTNV_11N40SISO_Ant1_2422_2483.5~2496.5

NTNV_11N40SISO_Ant1_2422_2496.5~13000



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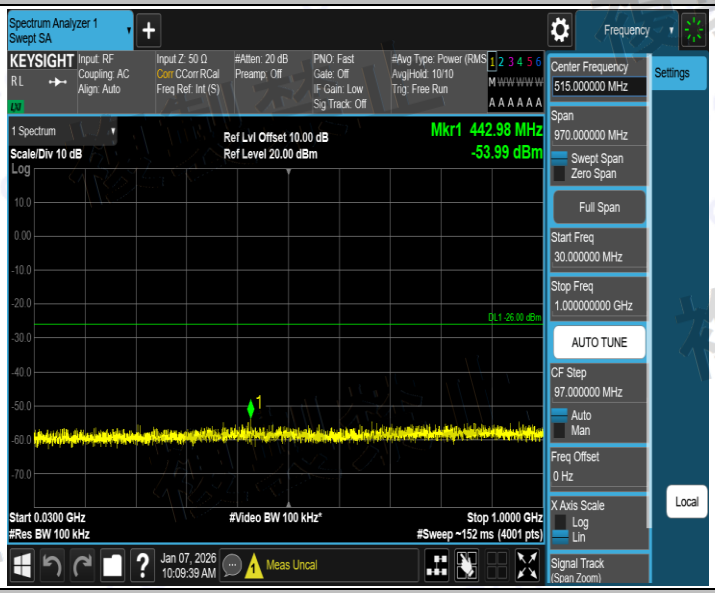

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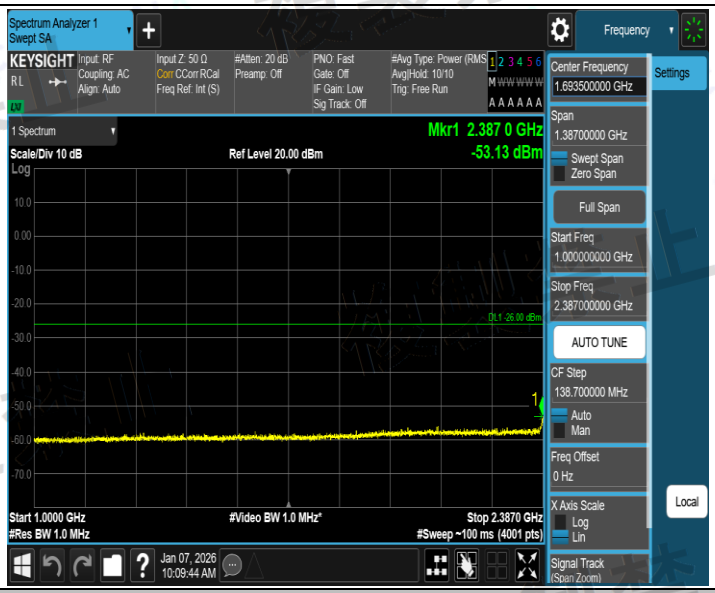

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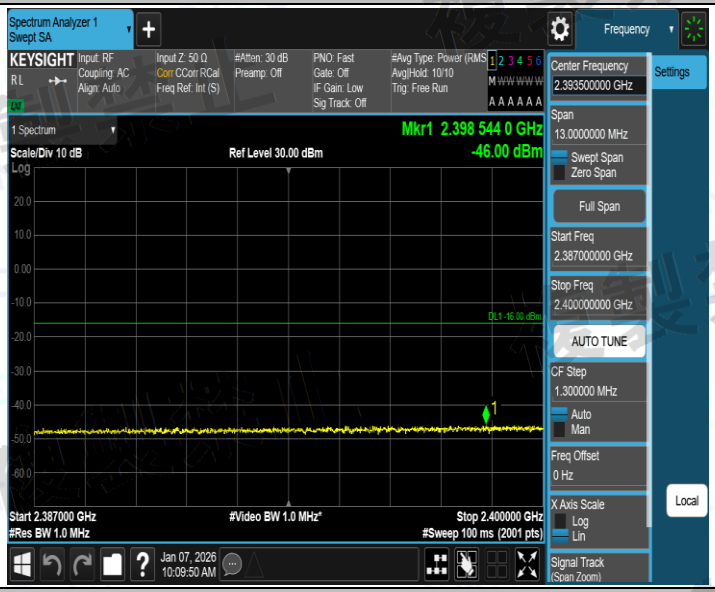

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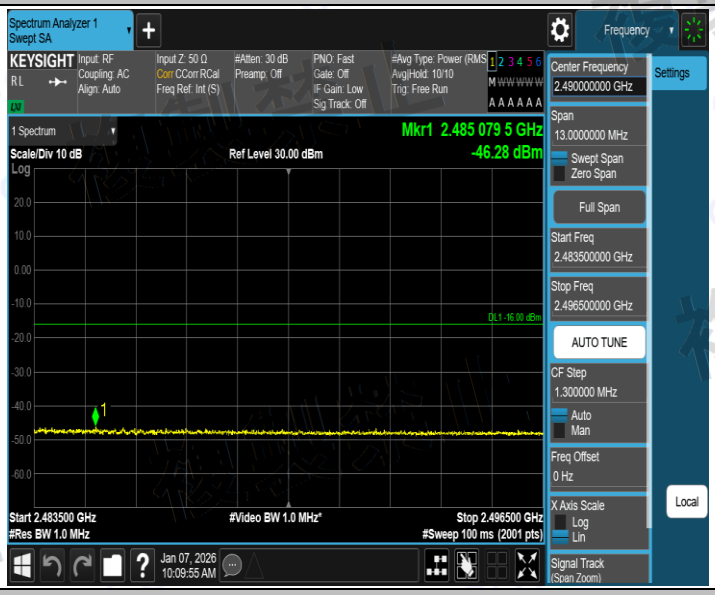

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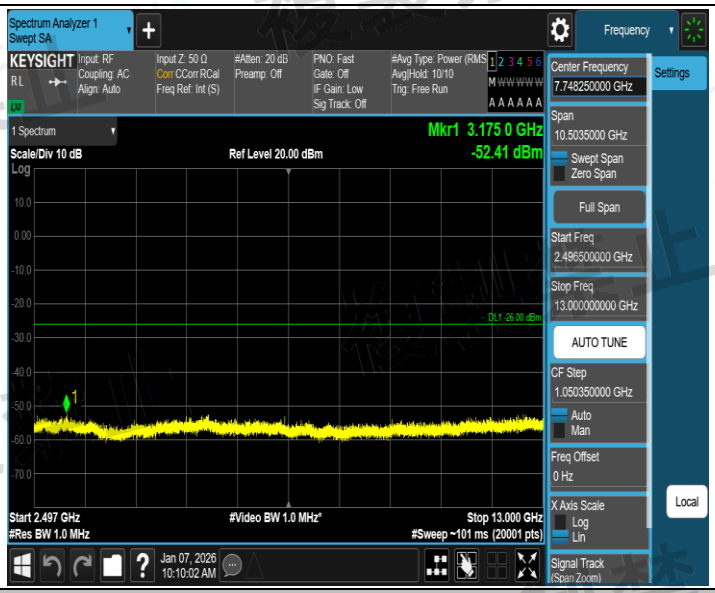

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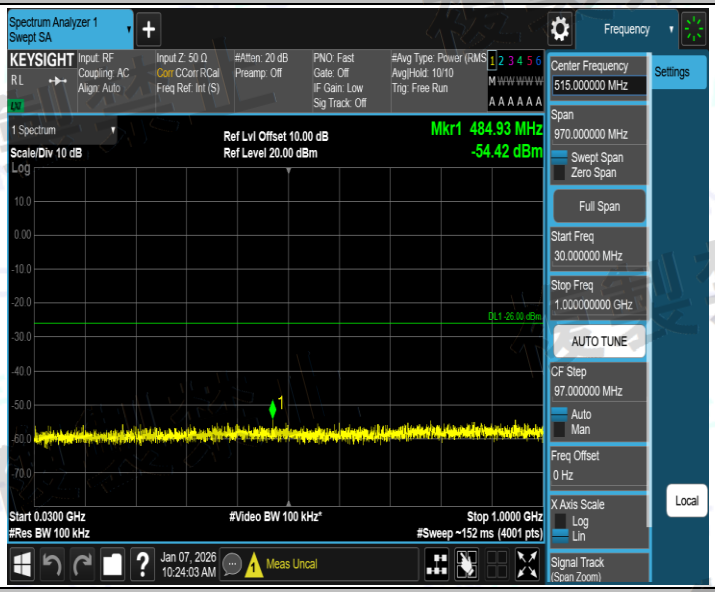

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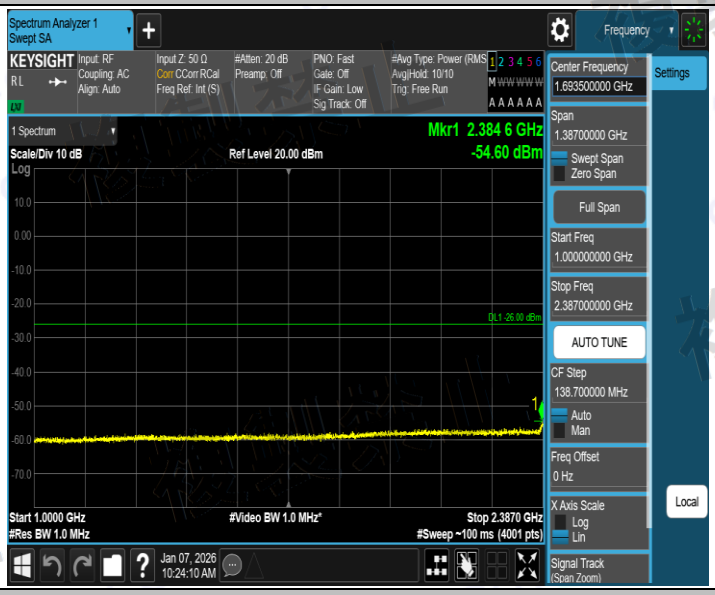
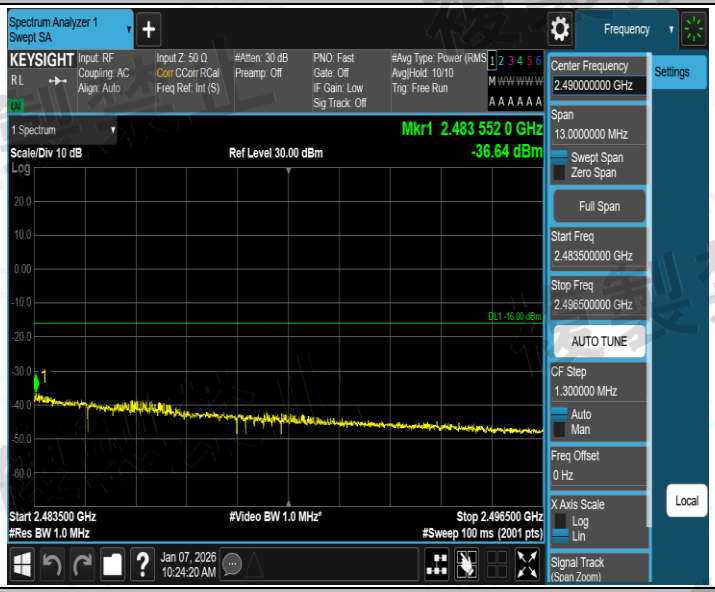


NTNV_11N40SISO_Ant1_2462_2387~2400

NTNV_11N40SISO_Ant1_2462_2483.5~2496.5



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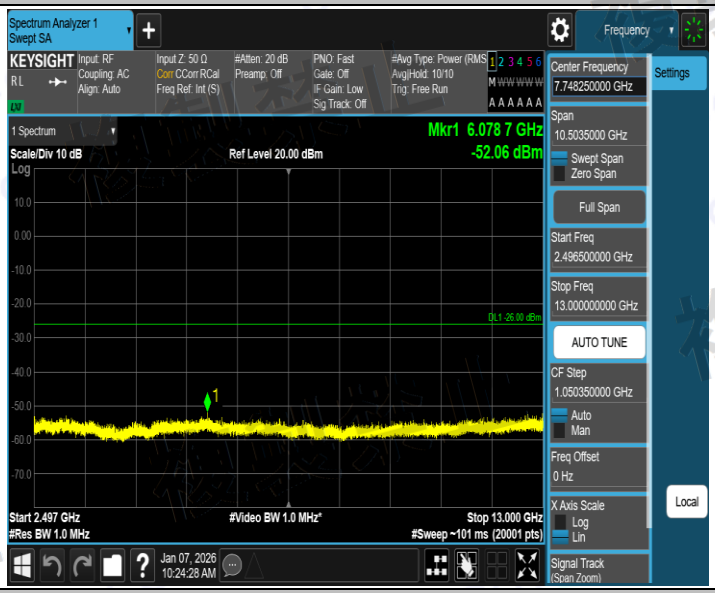

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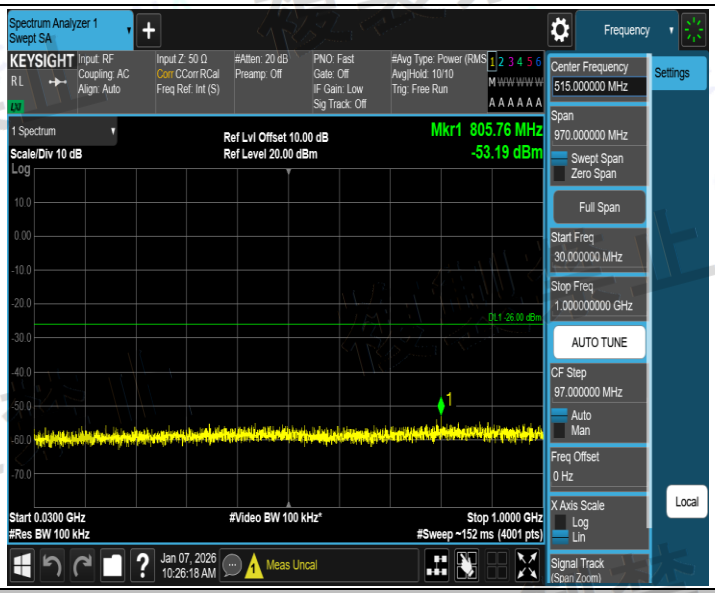

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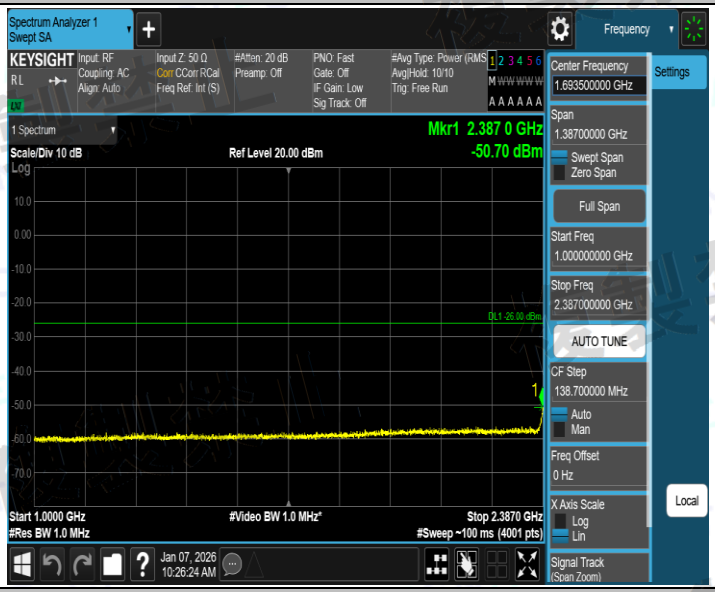

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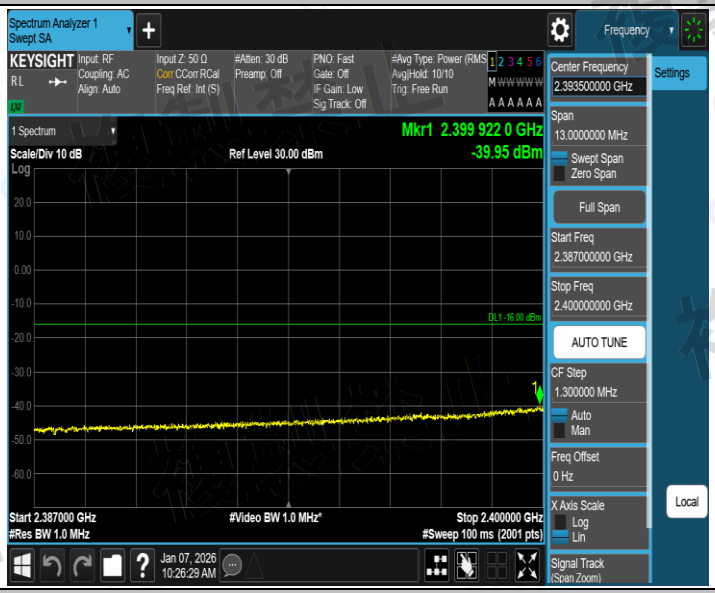

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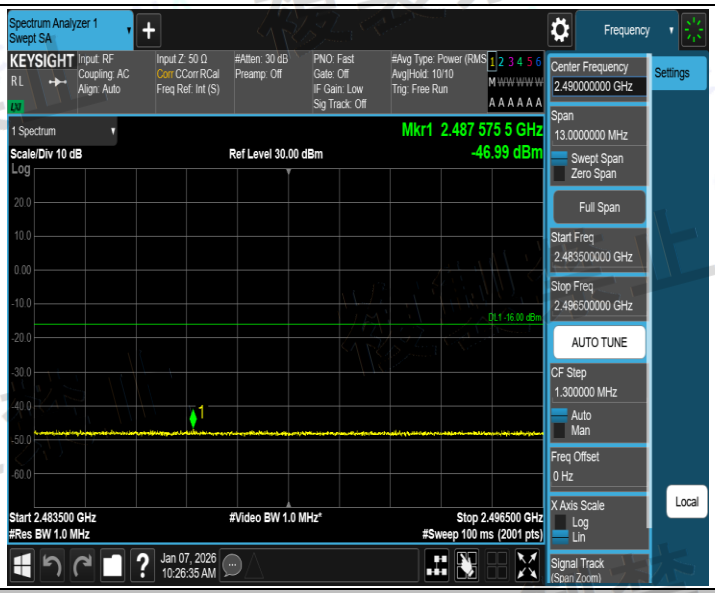

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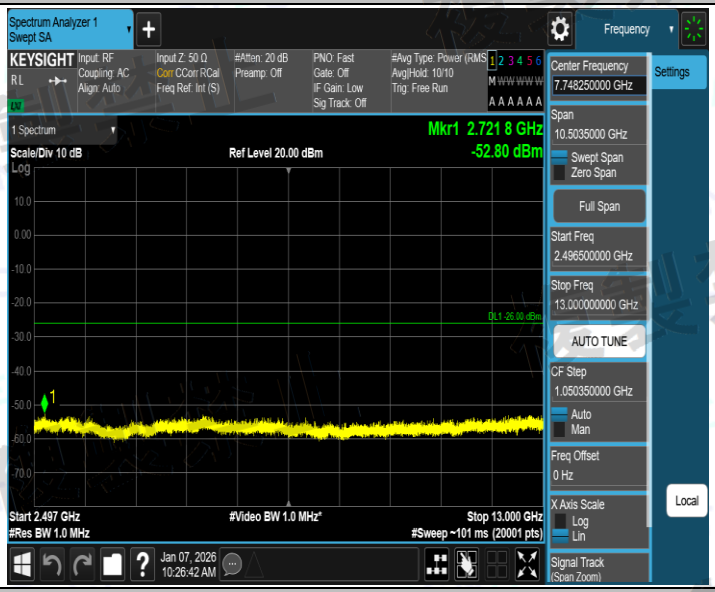

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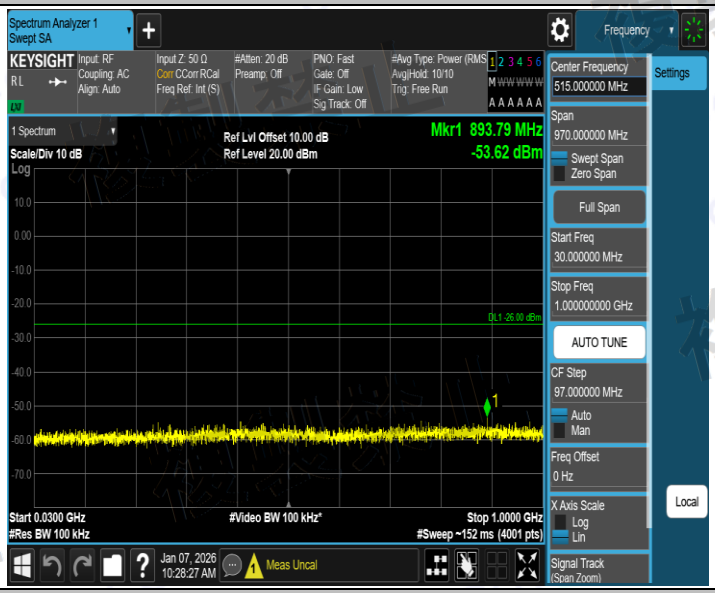

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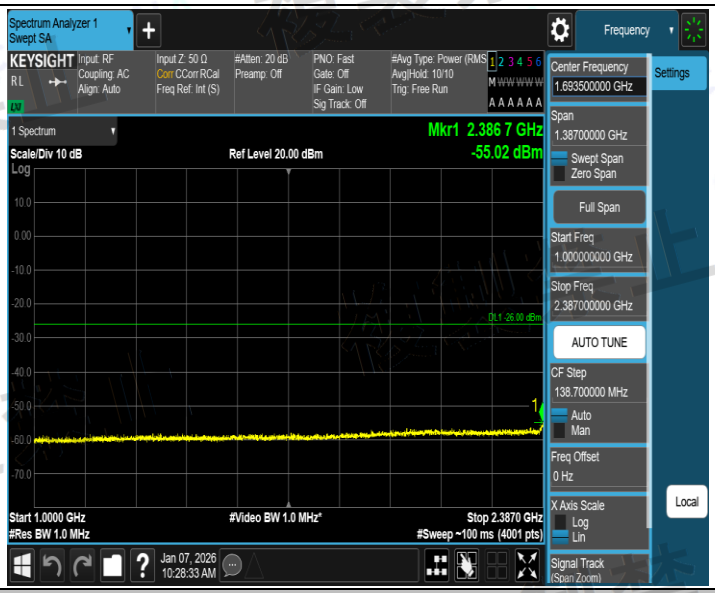

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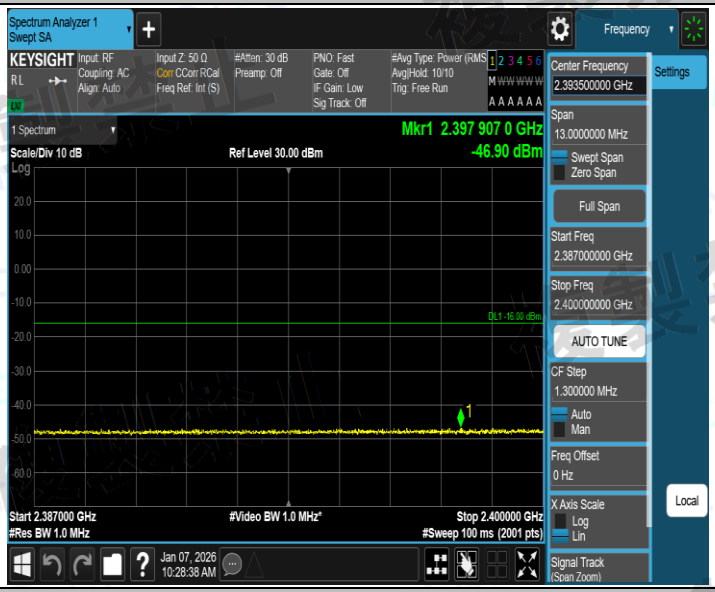

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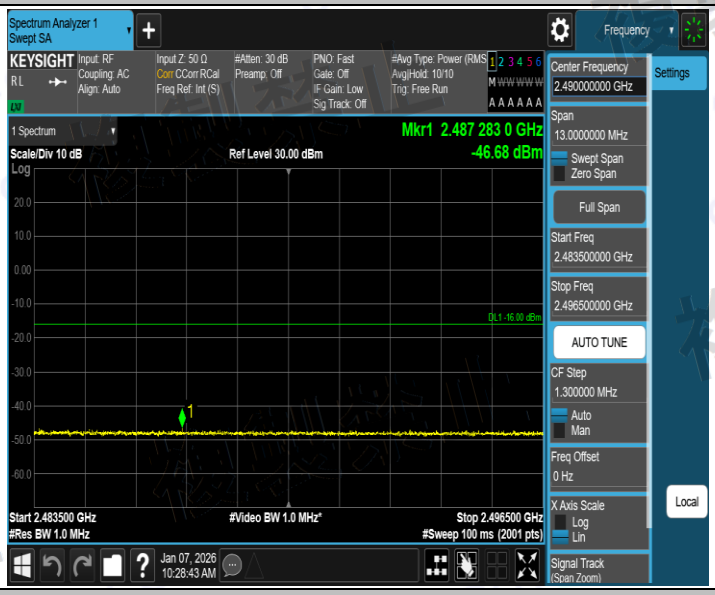

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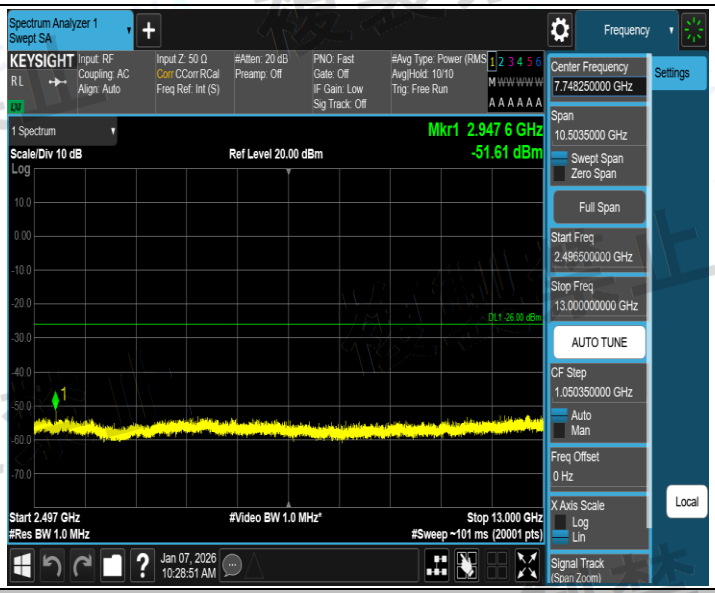

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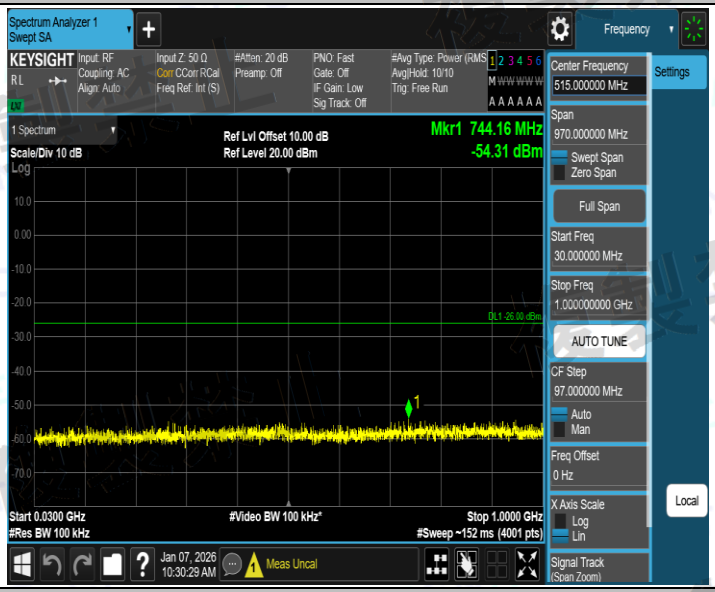

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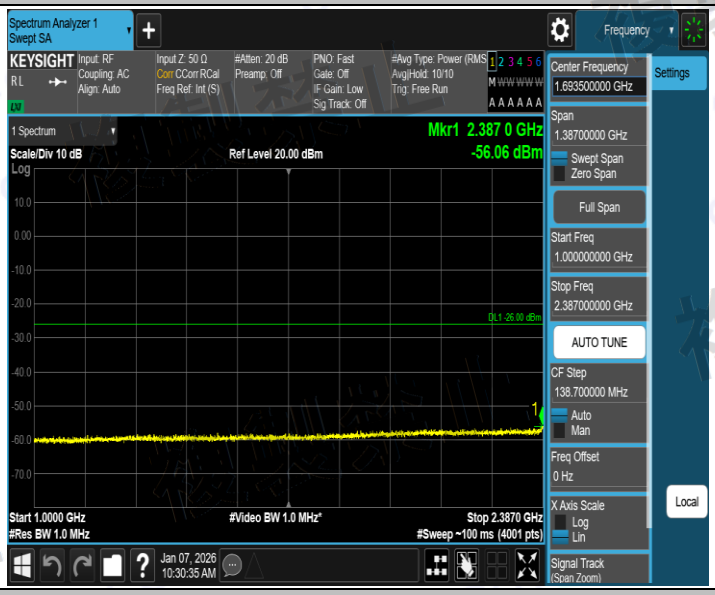
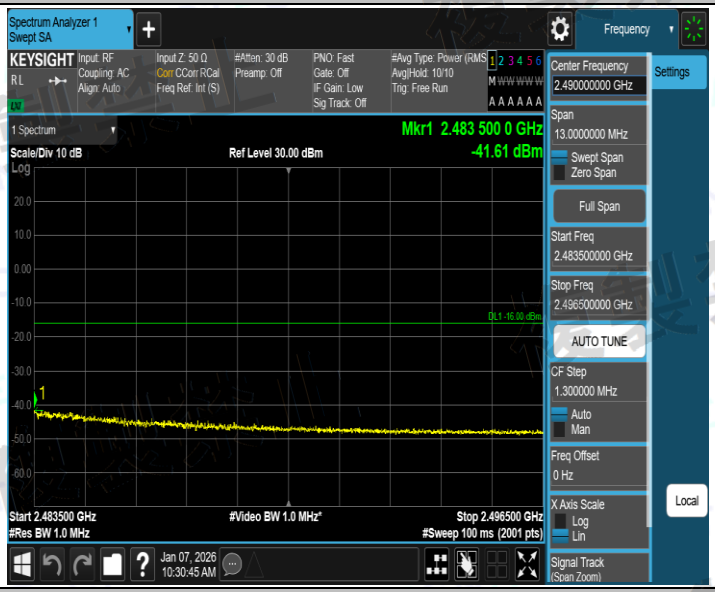


NTNV_11AX20SISO_Ant1_2472_2387~2400

NTNV_11AX20SISO_Ant1_2472_2483.5~2496.5



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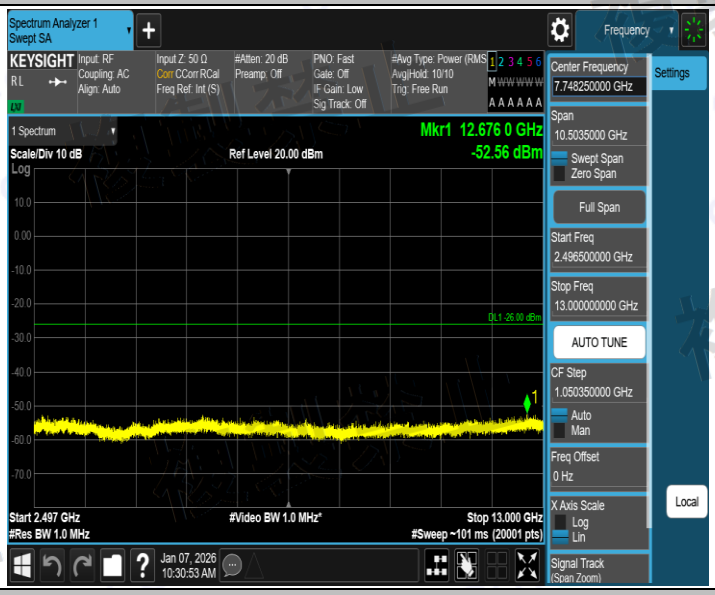

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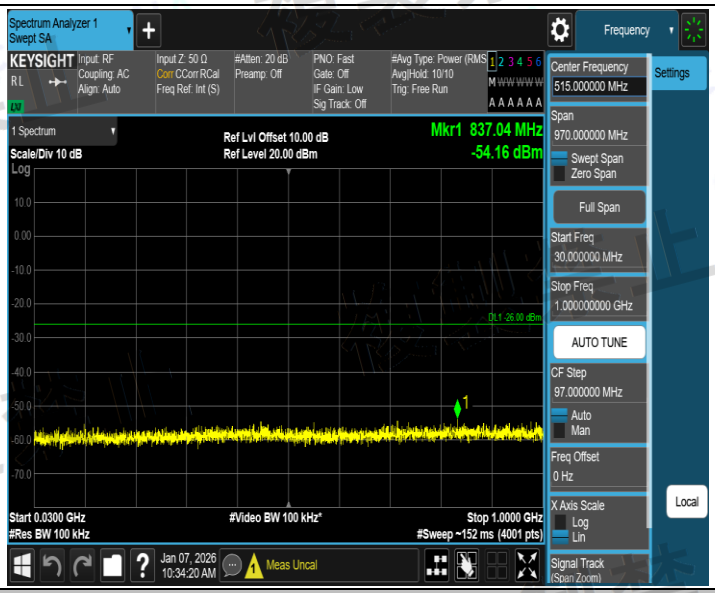

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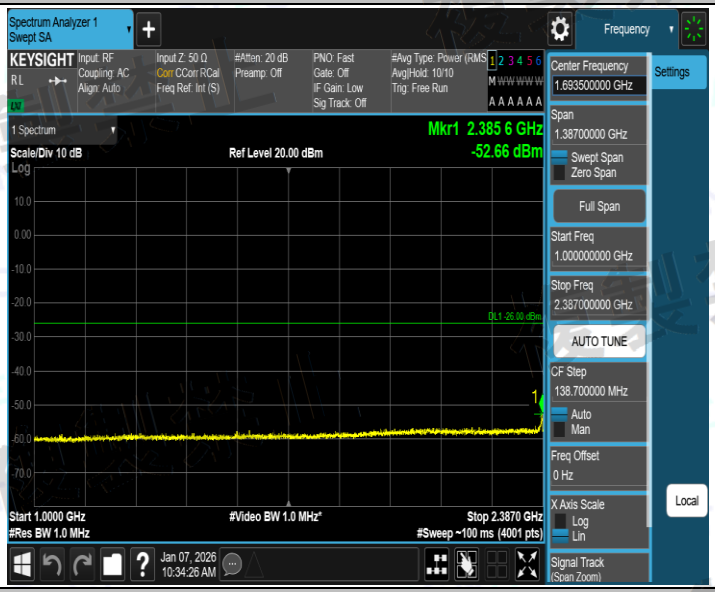

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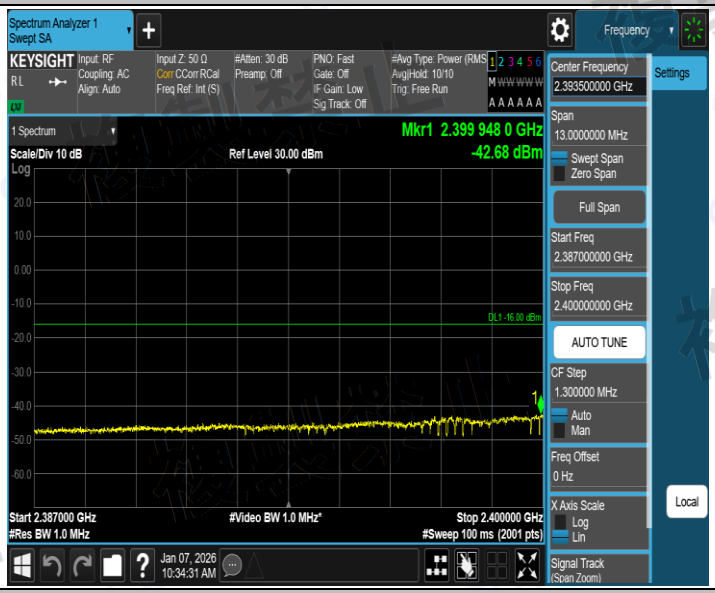
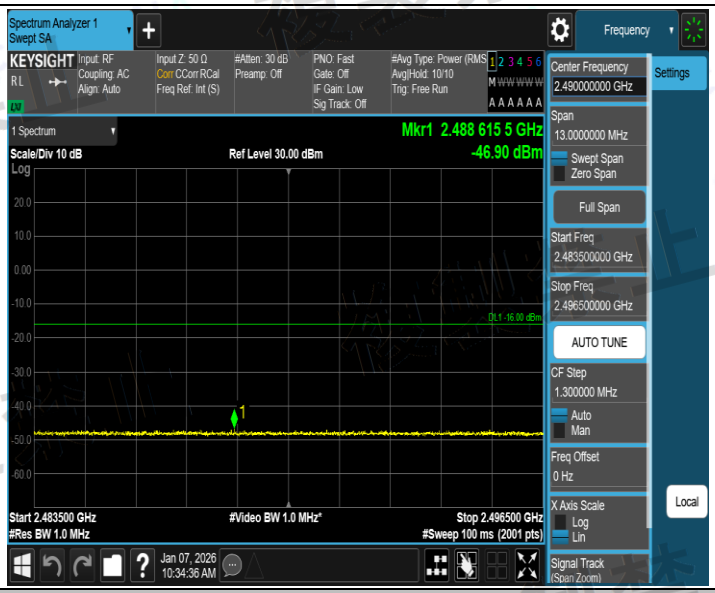


NTNV_11AX40SISO_Ant1_2422_2483.5~2496.5



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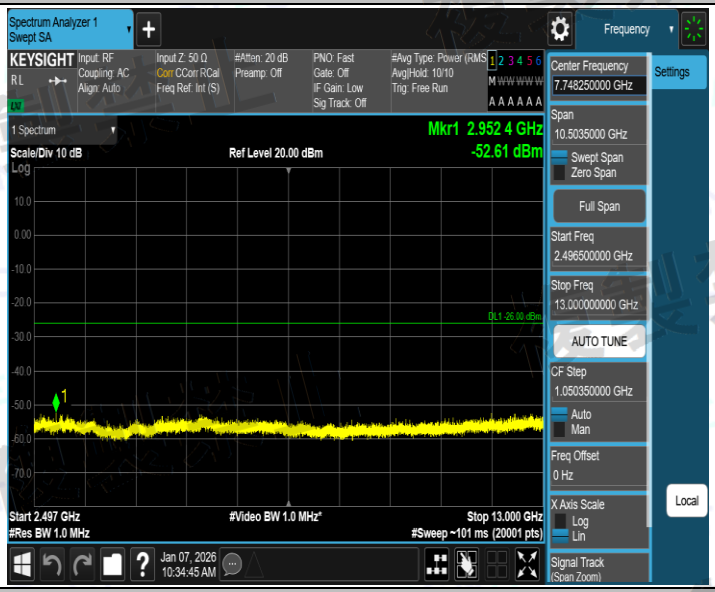

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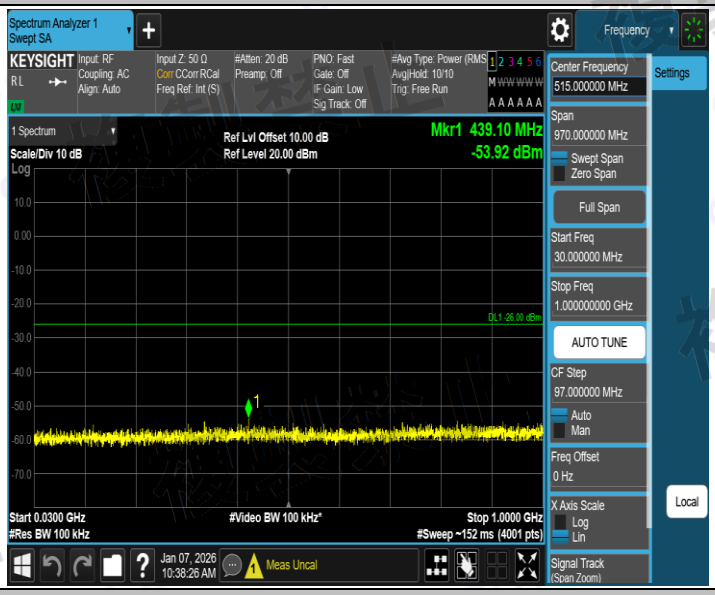

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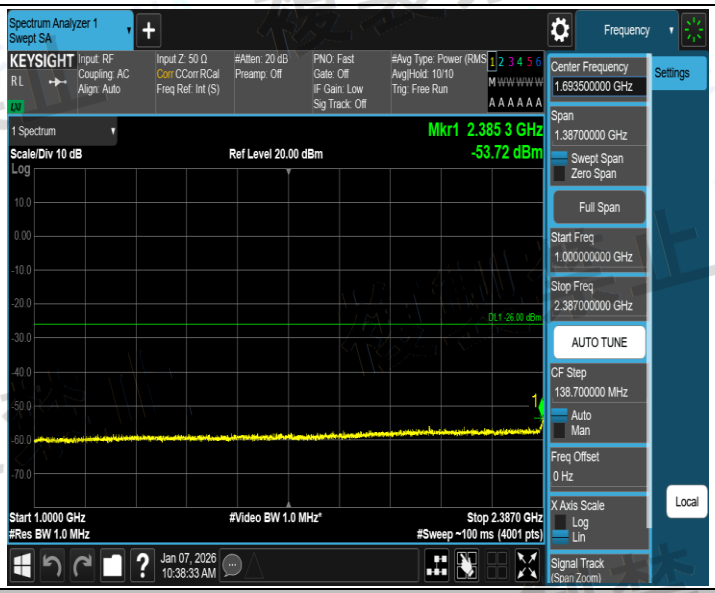

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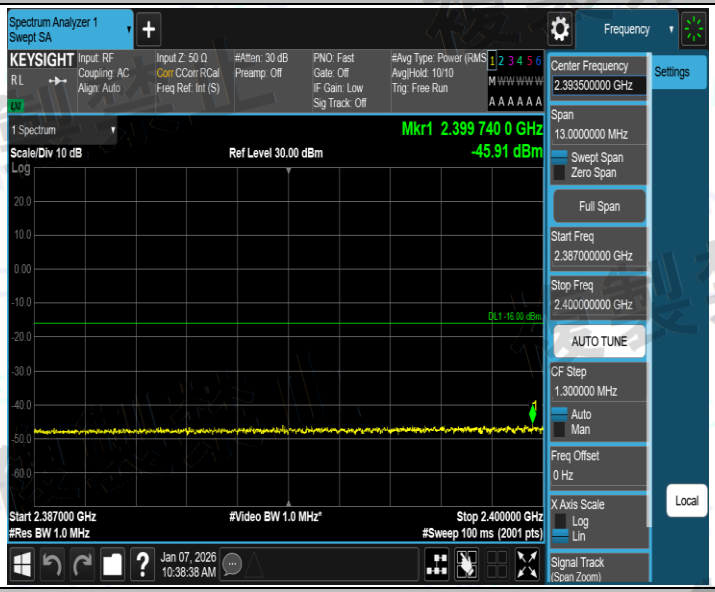
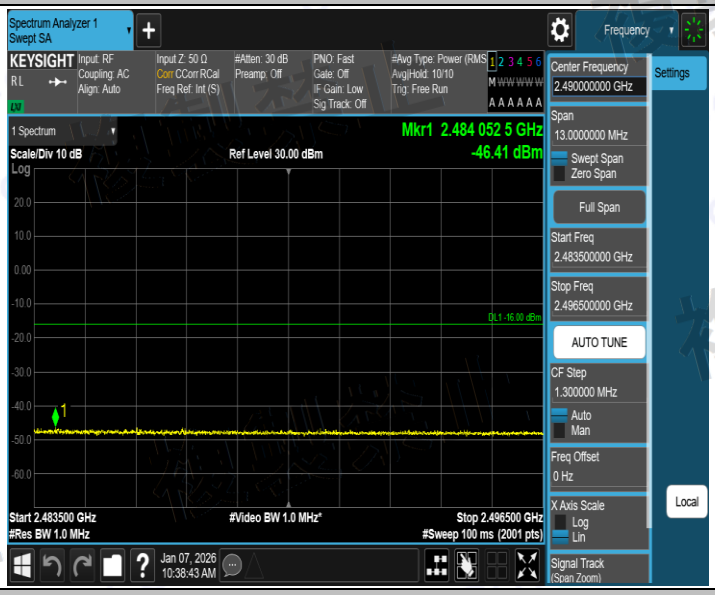
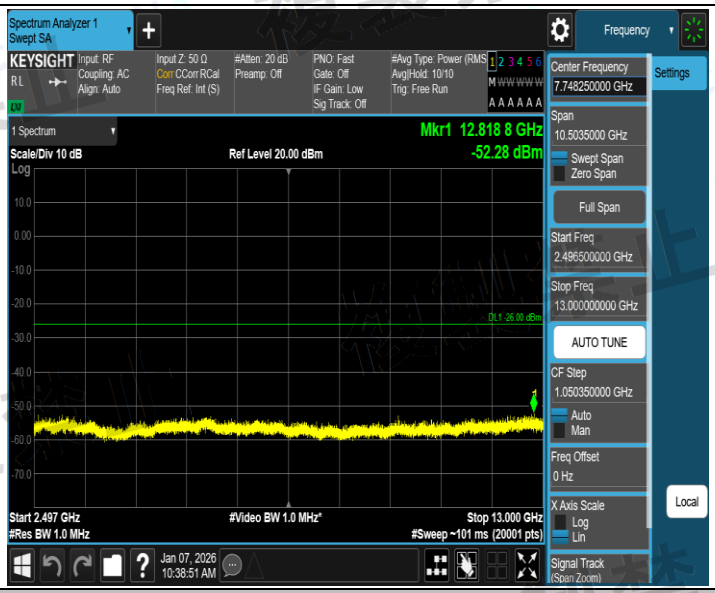


NTNV_11AX40SISO_Ant1_2442_2483.5~2496.5



NTNV_11AX40SISO_Ant1_2442_2496.5~13000



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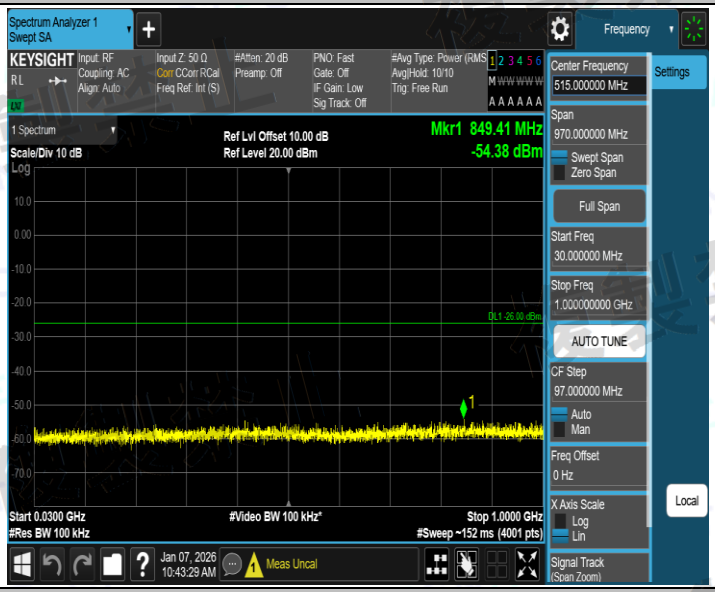
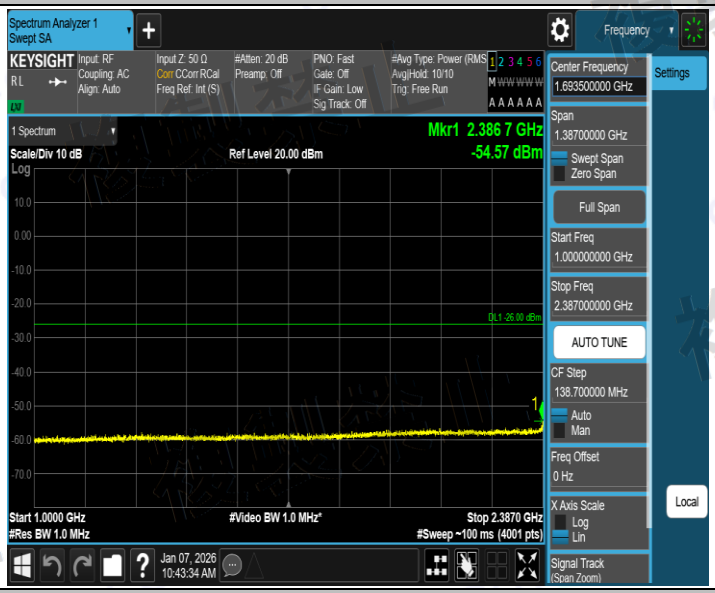


NTNV_11AX40SISO_Ant1_2462_1000~2387



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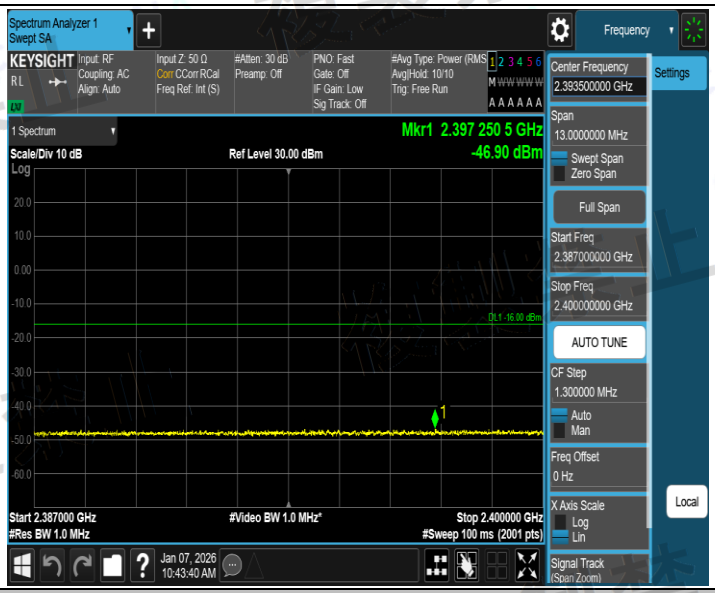
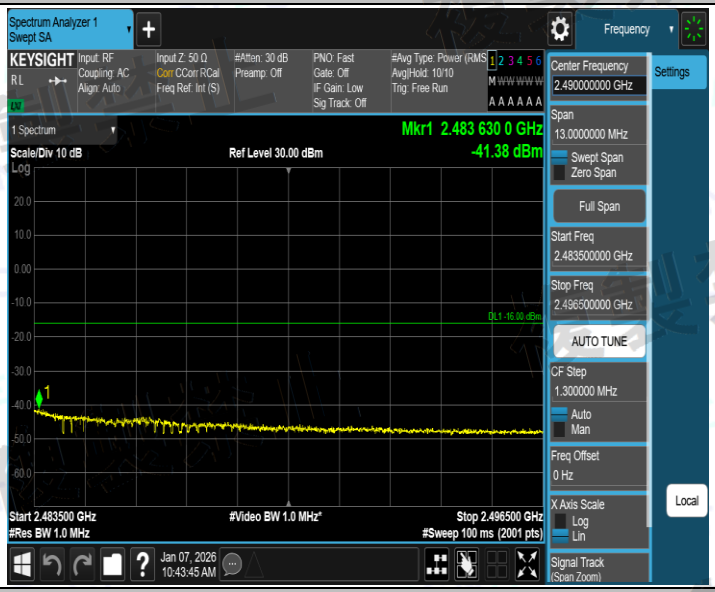
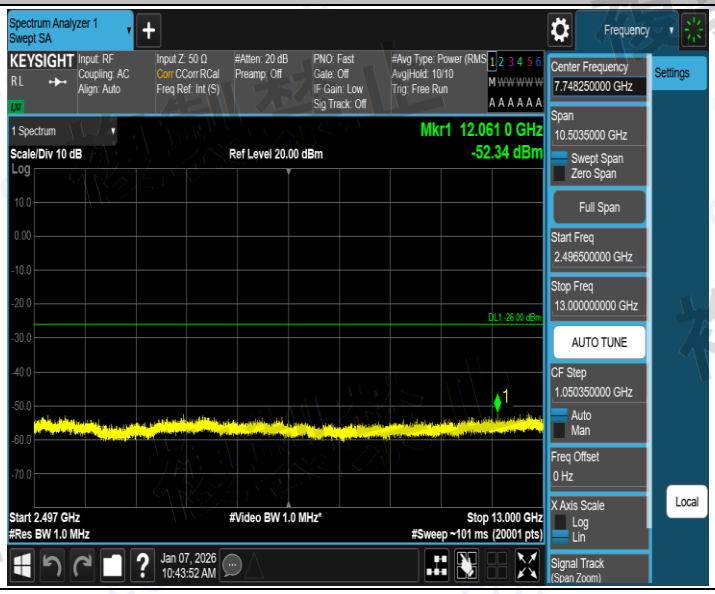


NTNV_11AX40SISO_Ant1_2462_2483.5~2496.5



NTNV_11AX40SISO_Ant1_2462_2496.5~13000



Appendix F: Spurious Emission of RX

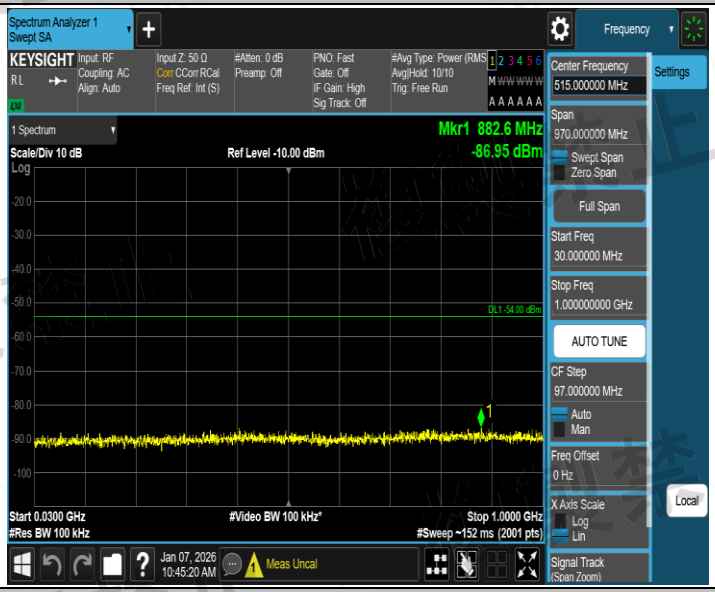
Test Result

TestCondition	Test Mode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-86.95	≤-54	0.00202	≤4	PASS
				1000~13000	-67.72	≤-47	0.16904	≤20	PASS
			2442	30~1000	-86.52	≤-54	0.00223	≤4	PASS
				1000~13000	-67.92	≤-47	0.16144	≤20	PASS
			2472	30~1000	-86.97	≤-54	0.00201	≤4	PASS
				1000~13000	-63.92	≤-47	0.40551	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-86.18	≤-54	0.00241	≤4	PASS
				1000~13000	-67.51	≤-47	0.17742	≤20	PASS
			2442	30~1000	-87.08	≤-54	0.00196	≤4	PASS
				1000~13000	-66.17	≤-47	0.24155	≤20	PASS
			2472	30~1000	-86.34	≤-54	0.00232	≤4	PASS
				1000~13000	-67.78	≤-47	0.16672	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	-83.80	≤-54	0.00417	≤4	PASS
				1000~13000	-67.83	≤-47	0.16482	≤20	PASS
			2442	30~1000	-84.95	≤-54	0.00320	≤4	PASS
				1000~13000	-70.87	≤-47	0.08185	≤20	PASS
			2462	30~1000	-85.43	≤-54	0.00286	≤4	PASS
				1000~13000	-70.88	≤-47	0.08166	≤20	PASS

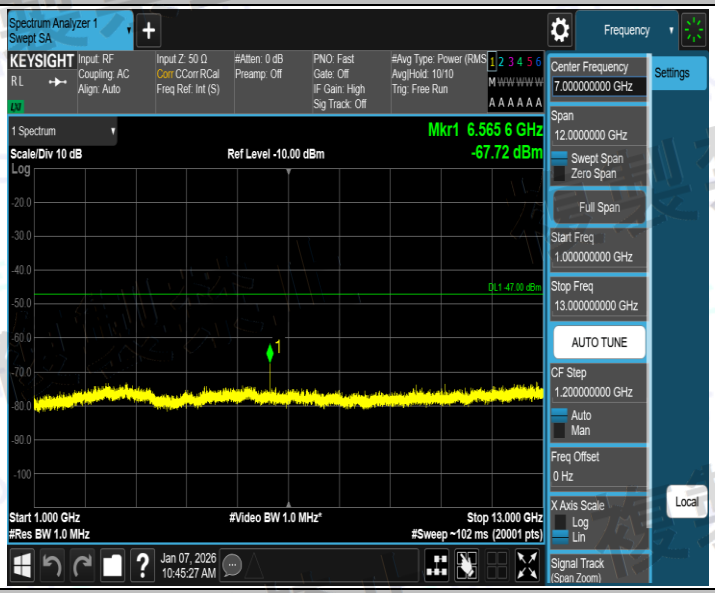
Remark: Only show the test data of worst condition.

Test Graphs

NTNV_11B_Ant1_2412_30~1000



NTNV_11B_Ant1_2412_1000~13000



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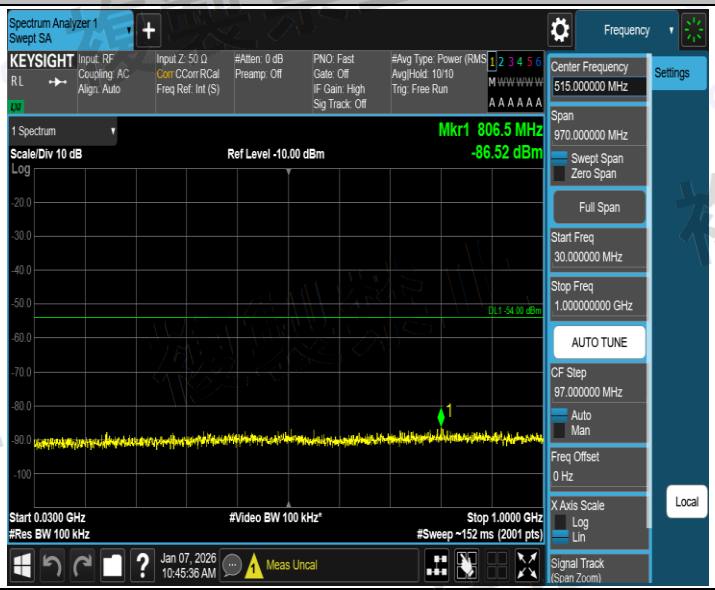
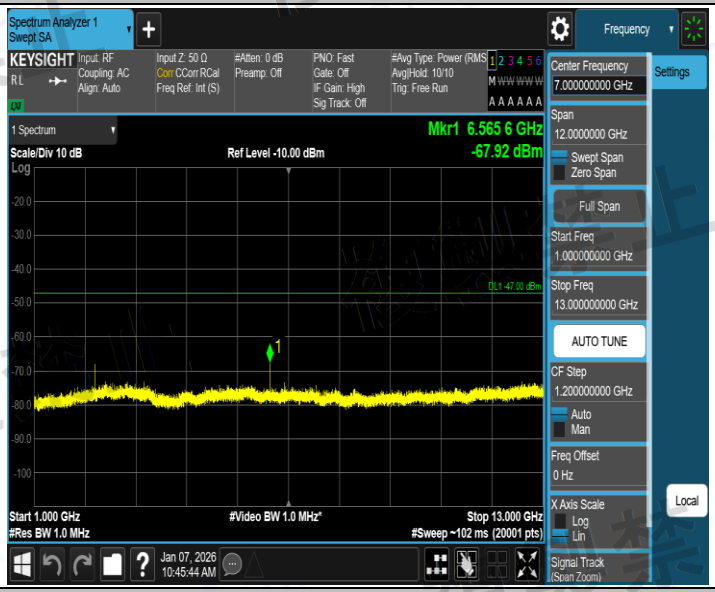


NTNV_11B_Ant1_2442_1000~13000

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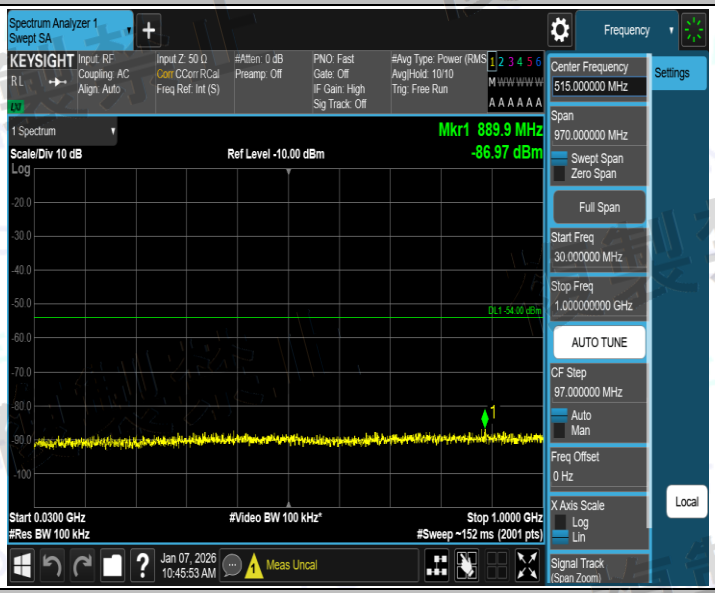
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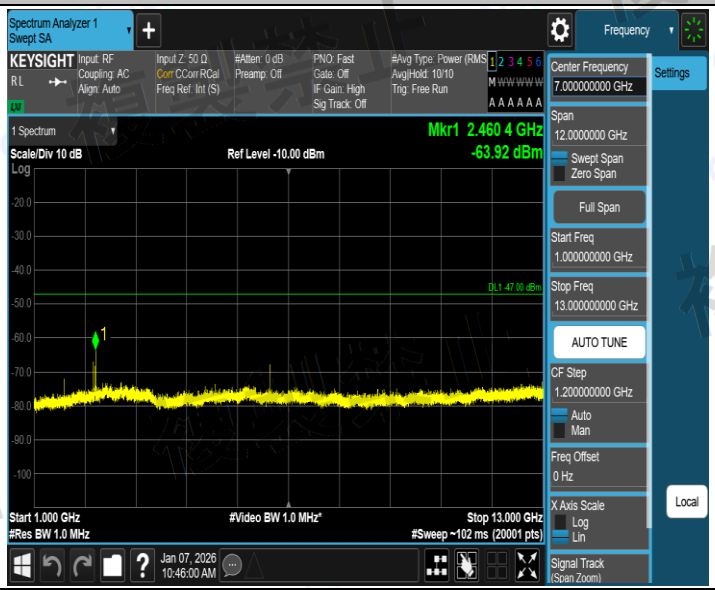
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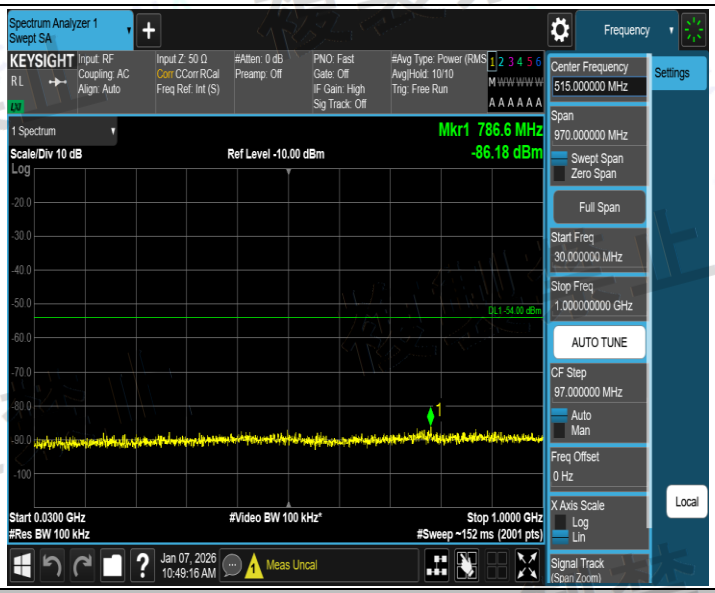
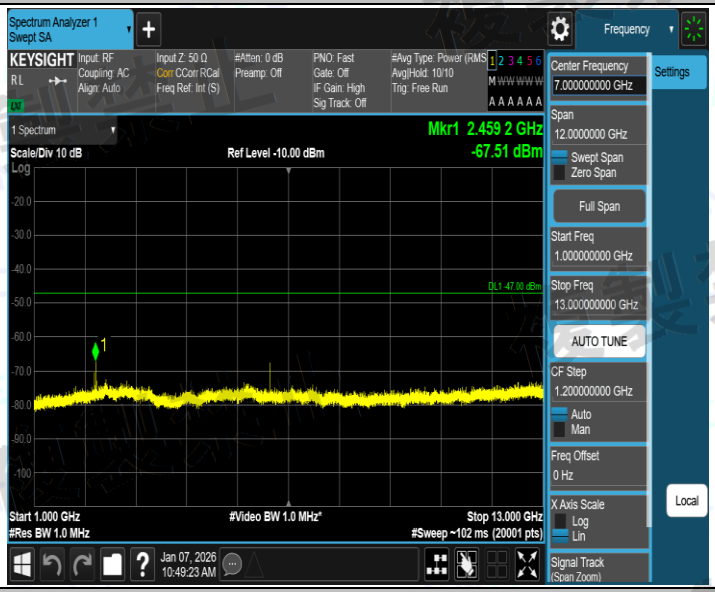
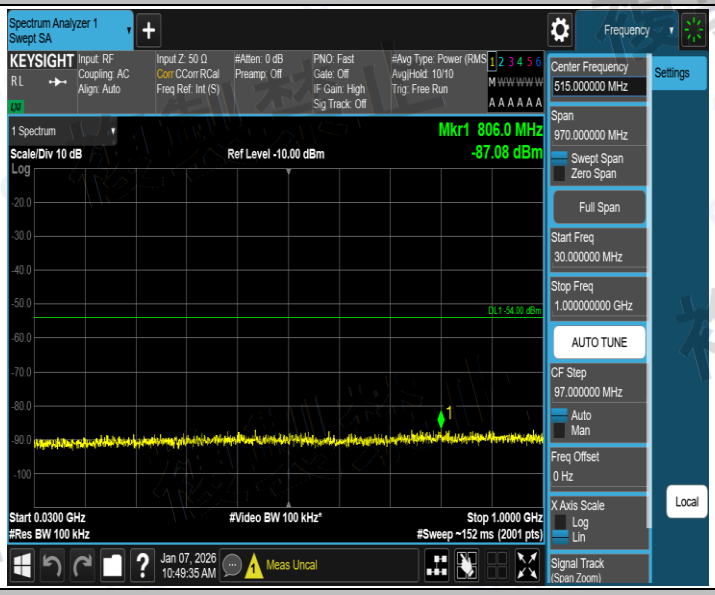


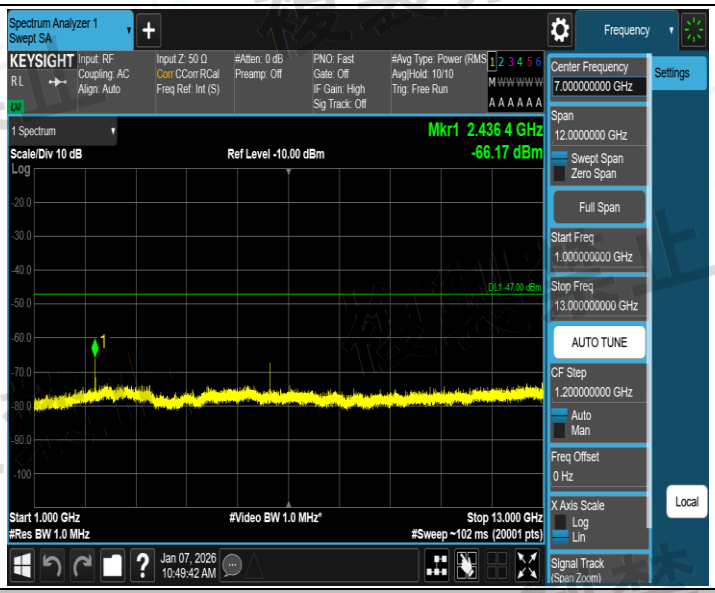
NTNV_11N20SISO_Ant1_2412_1000~13000



NTNV_11N20SISO_Ant1_2442_30~1000



NTNV_11N20SISO_Ant1_2442_1000~13000



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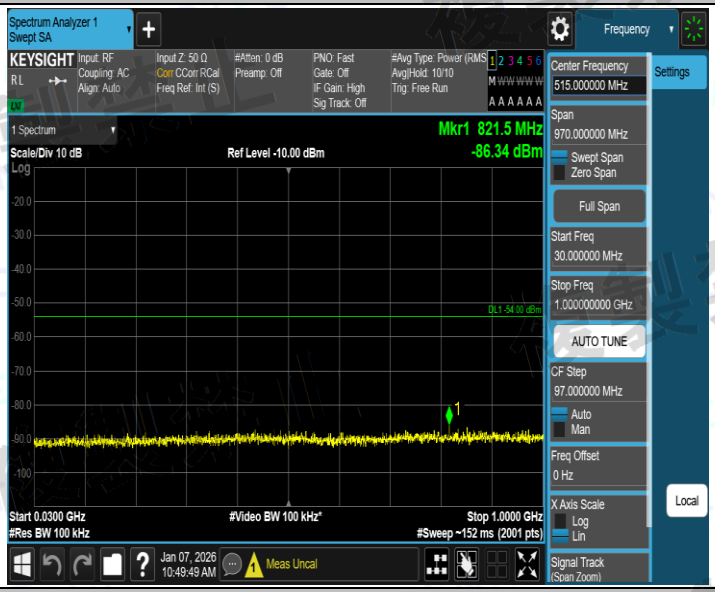

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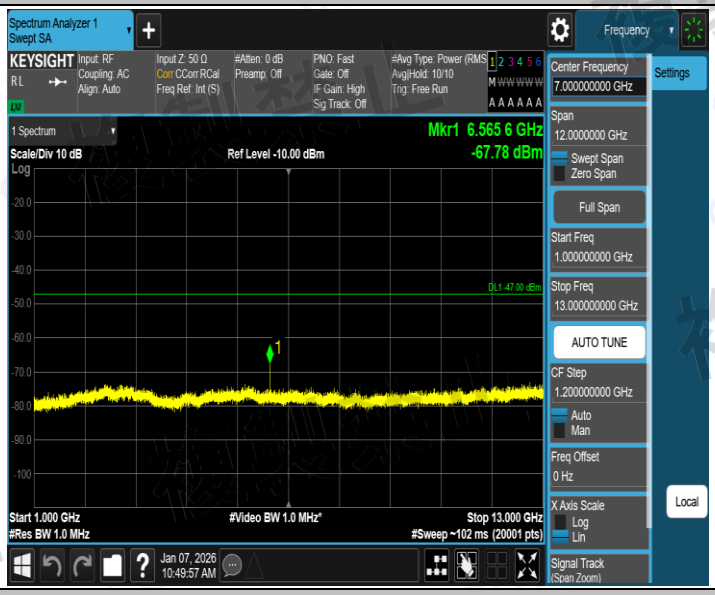

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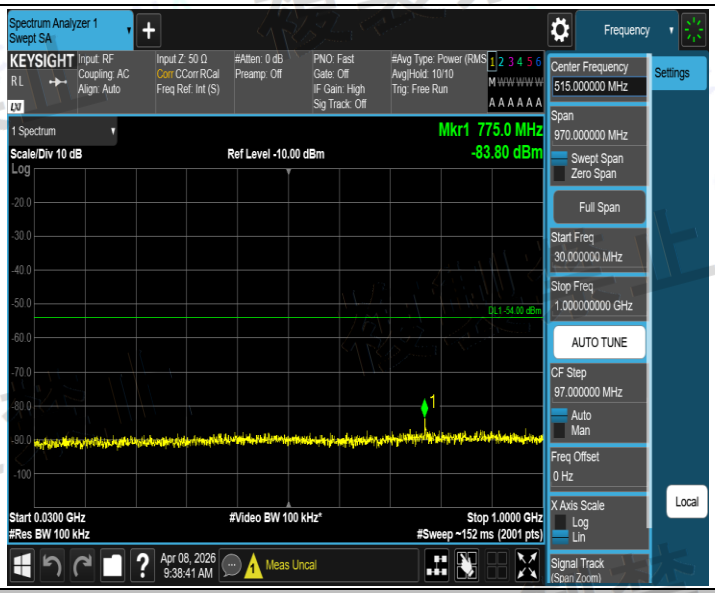
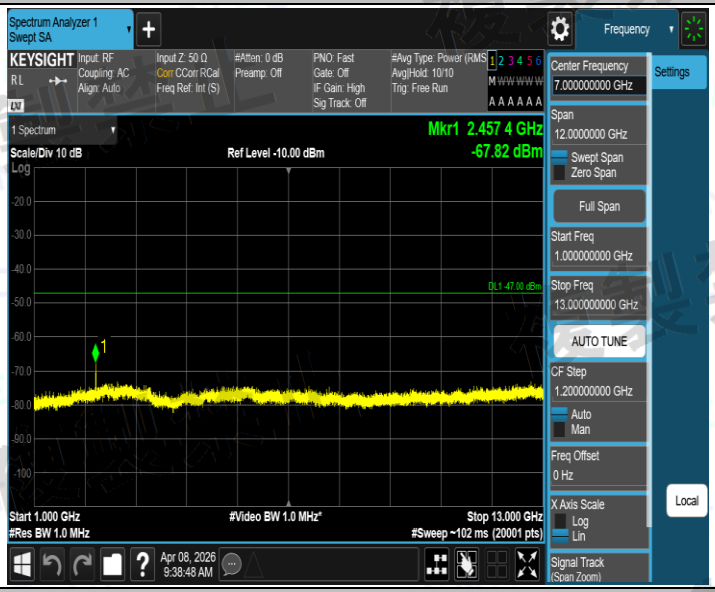


NTNV_11N40SISO_Ant1_2422_1000~13000



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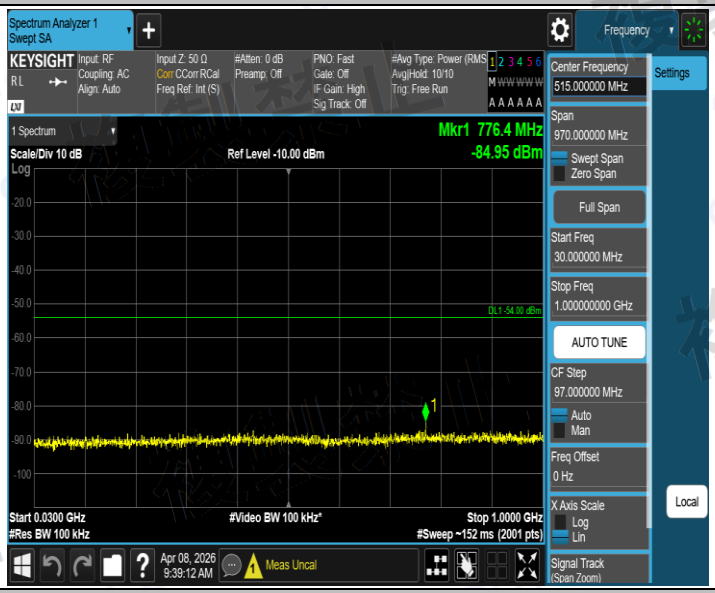

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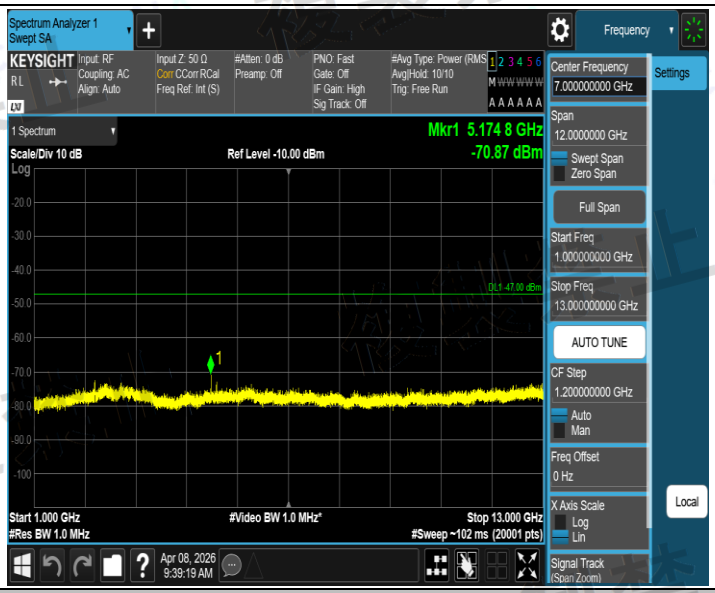
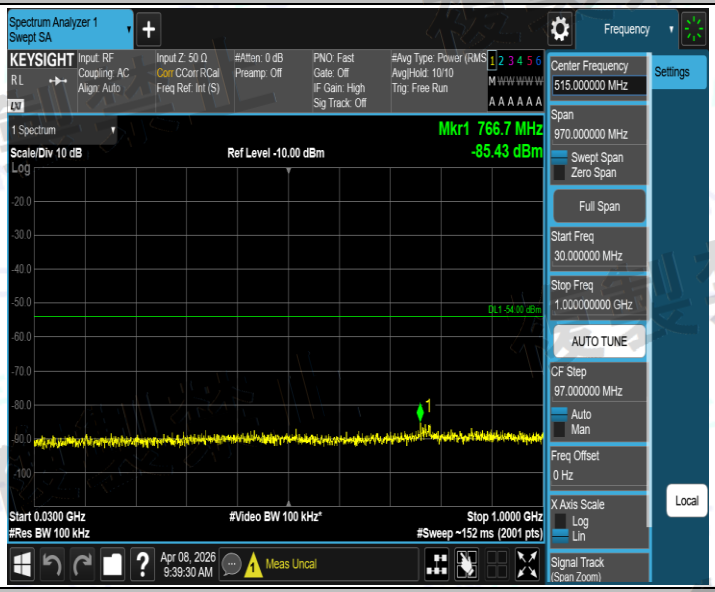


NTNV_11N40SISO_Ant1_2462_30~1000



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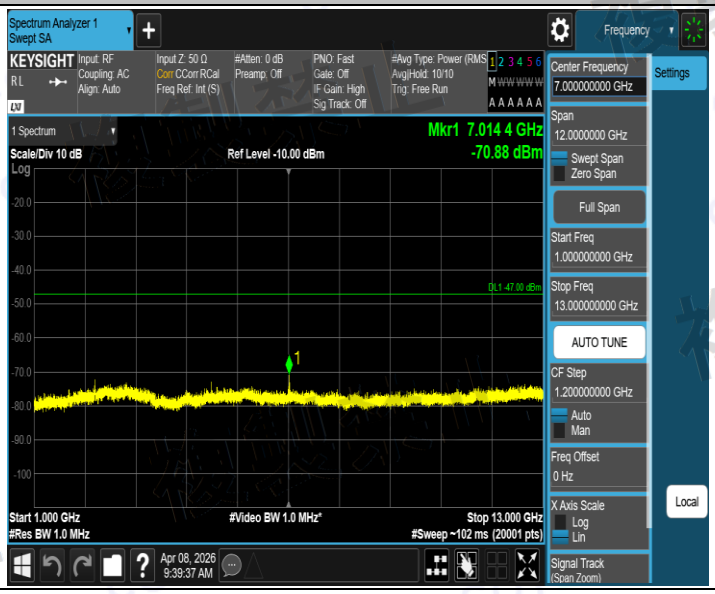

-----END OF THE REPORT-----