

TEST REPORT

Report No.: BCTC2512088076-3E

Applicant: Shenzhen Aincubic Technology Co.,Ltd

Product Name: 3D Printer

Test Model: Aincubic Kobra S1 Max

Tested Date: 2025-12-18 to 2026-01-13

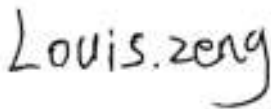
Issued Date: 2026-01-13

Shenzhen BCTC Technology Co., Ltd.



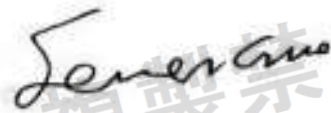
Product Name: 3D Printer
Trademark: ANYCUBIC
Model/Type reference: Anycubic Kobra S1 Max
Anycubic Kobra S1 Max Combo
Prepared For: Shenzhen Anycubic Technology Co.,Ltd
Address: Room 101-501, Building No.11, Yinhai Industrial Park, Yinhe Community,
Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer: Shenzhen Anycubic Technology Co.,Ltd
Address: Room 101-501, Building No.11, Yinhai Industrial Park, Yinhe Community,
Yuanshan Street, Longgang District, Shenzhen, Guangdong, 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: 2025-12-18
Sample tested Date: 2025-12-18 to 2026-01-13
Issue Date: 2026-01-13
Report No.: BCTC2512088076-3E
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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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2512088076-3E	2026-01-13	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) 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:	Anycubic Kobra S1 Max Anycubic Kobra S1 Max Combo
Model differences:	All models are identical except for the model name, the test model is Anycubic Kobra S1 Max.
Hardware Version:	N/A
Software Version:	N/A
Wi-Fi Specification:	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth)
Operation Frequency:	5260MHz-5320MHz for 802.11a/n(HT20)/ac(HT20)/ax(VHT20); 5270MHz-5310MHz for 802.11n(HT40)/ac(HT40)/ax(VHT40); 802.11a: 1 mW/MHz ; 802.11n20: 1 mW/MHz;
Rated RF Output Power Density	802.11 n40: 1 mW/MHz; 802.11 ac20: 1 mW/MHz; 802.11 ac40: 1 mW/MHz; 802.11 ax20: 1 mW/MHz; 802.11 ax40: 1 mW/MHz; 802.11a: 0.91 mW/MHz; 802.11n20: 0.72 mW/MHz;
Conducted Power Density	802.11 ac20: 0.67 mW/MHz; 802.11 ac40: 0.33 mW/MHz; 802.11 ax20: 0.81 mW/MHz; 802.11 ax40: 0.46 mW/MHz;
Type of Modulation:	OFDM/OFDMA
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac/ax(VHT20): NSS1, MCS0-MCS8 802.11ac/ax(VHT40):NSS1, MCS0-MCS9
Number Of Channel:	4 channels for 802.11a/n20/ac20/ax20 in the 5260-5320MHz band ; 2 channels for 802.11 n40/ac40/ax40 in the 5270-5310MHz band ;
Antenna installation:	FPC antenna 6.22 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:	AC 100-120V, 200-240V 50/60Hz

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	3D Printer	ANYCUBIC	Anycubic Kobra S1 Max	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/ac/ax(20MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
52	5.260	60	5.300
56	5.280	64	5.320

802.11n/ac/ax(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	
Mode 12	CH52	
Mode 13	CH56	802.11ac20/ax20
Mode 14	CH64	
Mode 15	RX	
Mode 16	CH54	
Mode 17	CH62	802.11ac40/ax40
Mode 18	RX	

Note: This prototype does not support RU mode.

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 AC Power	100V	110V	90V
Voltage Variation	0%	+10%	-10%
RF input point power (DC)	3.3V	3.3V	3.3V

Note:

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

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

4.7 Table Of Parameters Of Test Software Setting

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

Test software Version	SecureCRT		
Frequency	DEF	DEF	DEF
Parameters	5260 MHz	5270 MHz	5280MHz
Frequency	DEF	DEF	
Parameters	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.

5.2 Test Instrument Used

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Spectrum Analyzer	Keysight	N9020A	MY51287403	Aug.30, 2025	Aug.29, 2026
Signal Generator	Keysight	N5182A	MY50144088	Aug.30, 2025	Aug.29, 2026
Power Sensor	MWRFTest	MW100-RFCB	\	Aug.30, 2025	Aug.29, 2026
Radio frequency control box	MWRFTest	MW100-RFCB	\	\	\
Software	Frad	EZ-EMC	FA-03A2 RE	\	\
Software	Keysight	Keysight.ETSL Test system	1.02.05	\	\
D.C. Power Supply	LongWei	D-41747 Viersen	6230316	Aug.30, 2025	Aug.29, 2026
Communication test set	R&S	CMW500	157483	Aug.30, 2025	Aug.29, 2026
Programmable constant temperature and humidity test chamber	Auchno	OJN-9606-408 L	19120183	July.9, 2025	July.8, 2026
Hygrothermograph	Thermo	HTC-1	\	Aug.30, 2025	Aug.29, 2026

Calibration laboratory: CCIC(Shenzhen) Co., Ltd

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

6. RF Shielding Method

Chipset:

The product structure is uses SMD patch process.

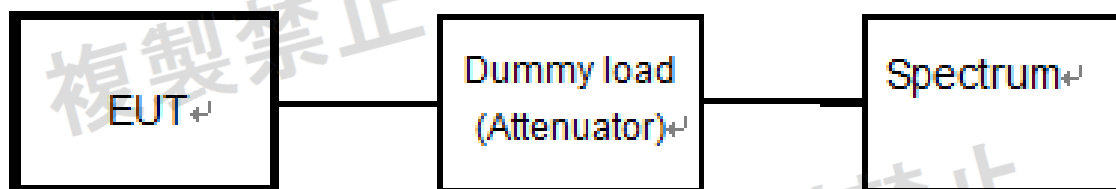
As shown in the picture, If the will be open so the product be damage.

Number of the pins: QFN20 interval distance 0.5mm



7. Frequency Error

7.1 Block Diagram Of Test Setup



7.2 Limit

Item	Limits
Frequency Error	±20ppm

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.

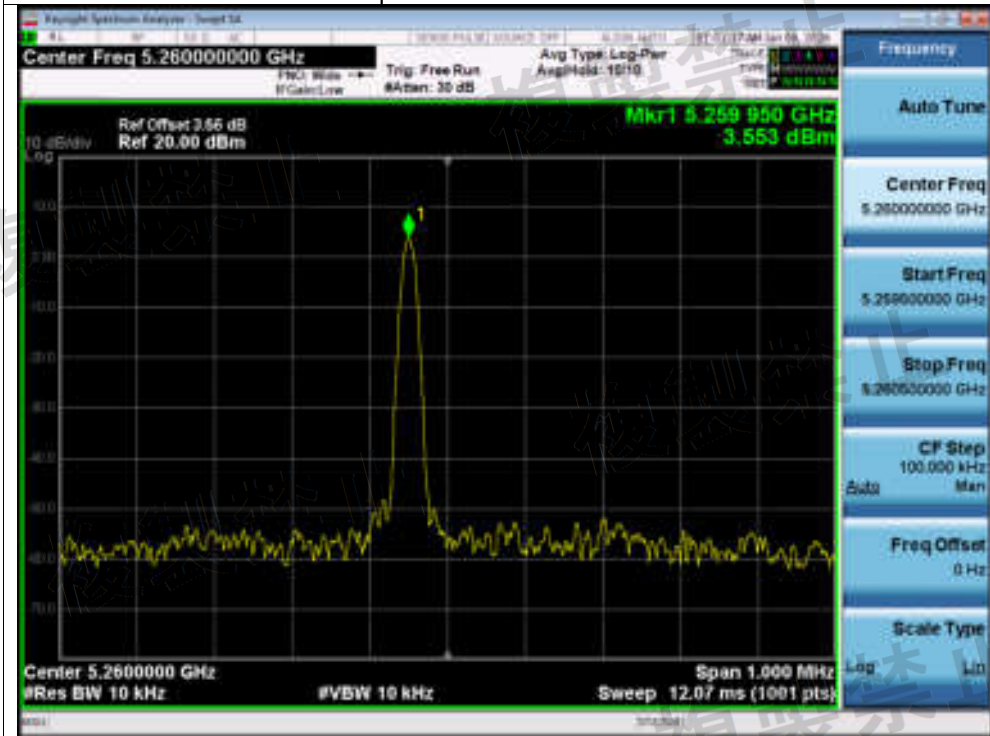
In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the 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

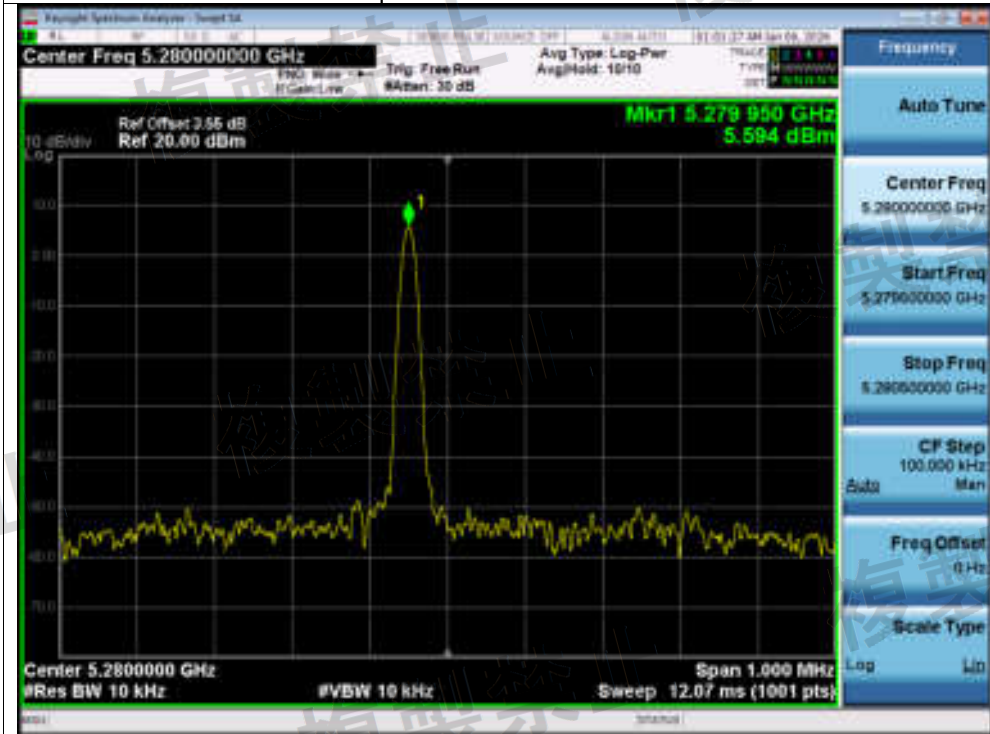
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	5260	5259.95	-50000	-9.51	20	Pass
NVNT	5280	5279.95	-50000	-9.47	20	Pass
NVNT	5320	5319.95	-50000	-9.4	20	Pass
NVNT	5270	5269.95	-50000	-9.49	20	Pass
NVNT	5310	5309.95	-50000	-9.42	20	Pass

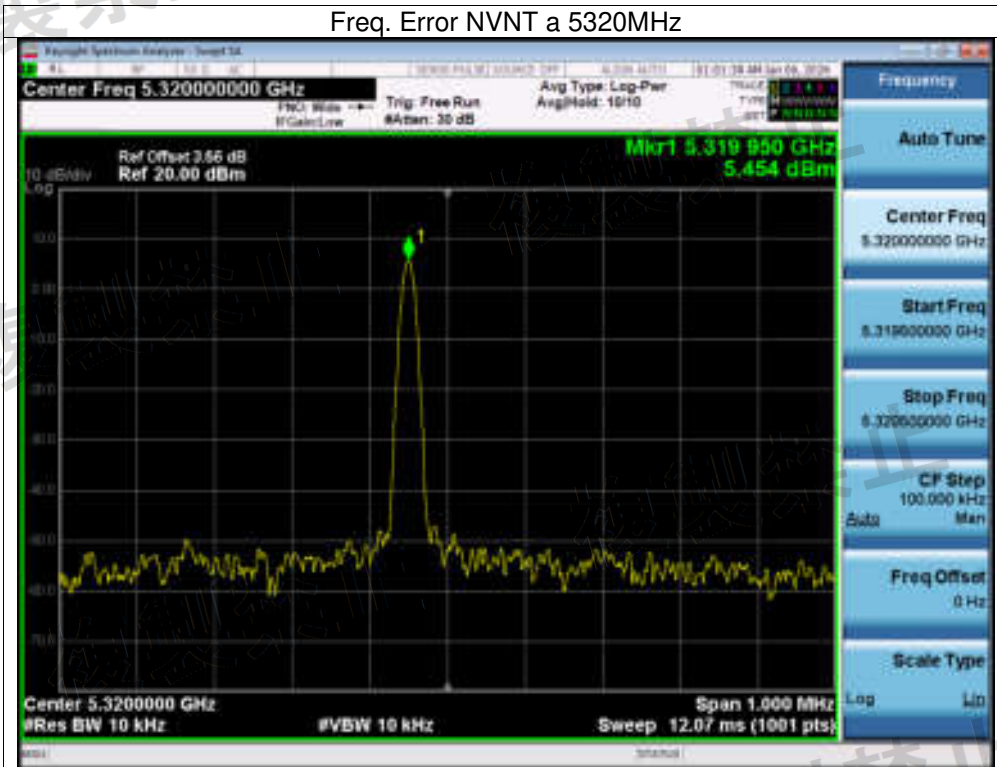
Test Graphs
Freq. Error NVNT a 5260MHz



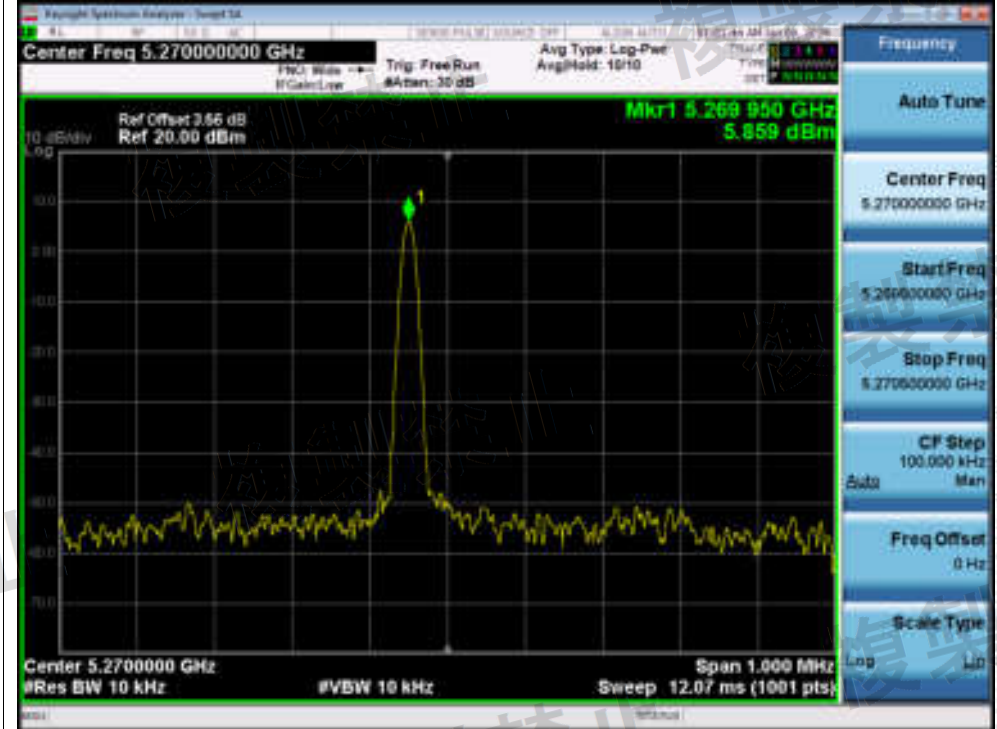
Freq. Error NVNT a 5280MHz



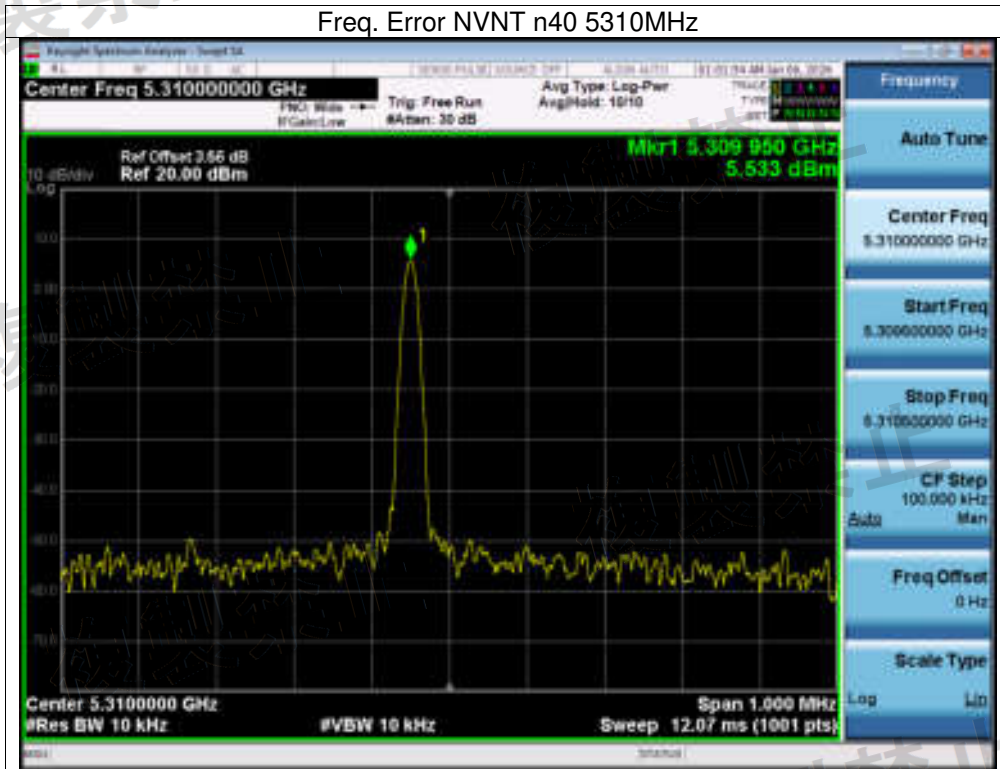
Freq. Error NVNT a 5320MHz



Freq. Error NVNT n40 5270MHz

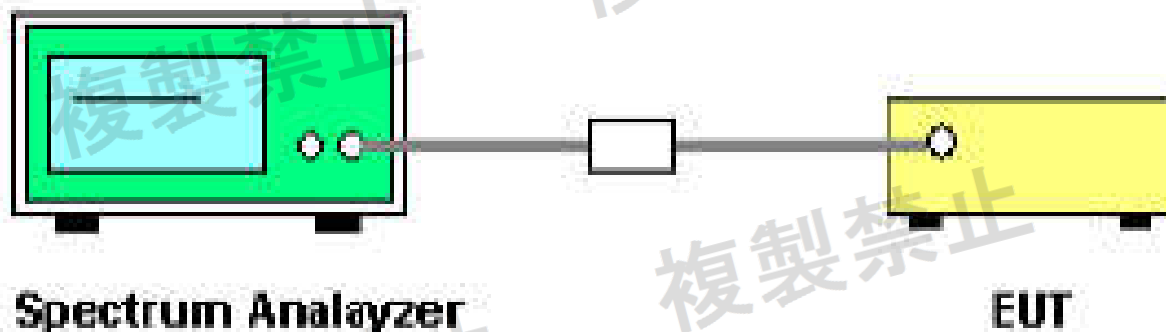


Freq. Error NVNT n40 5310MHz



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.

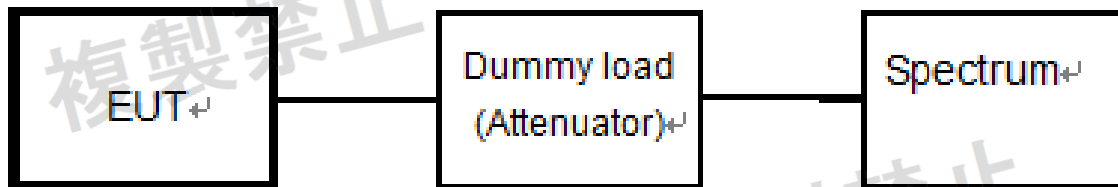
8.5 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

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	-0.81	0.83	6.22	1	3.48	5	-17	Pass
NVNT	a	5280	-0.4	0.91	6.22	1	3.82	5	-9	Pass
NVNT	a	5320	-0.66	0.86	6.22	1	3.60	5	-14	Pass
NVNT	n20	5260	-2.13	0.61	6.22	1	2.56	5	-39	Pass
NVNT	n20	5280	-1.44	0.72	6.22	1	3.01	5	-28	Pass
NVNT	n20	5320	-1.62	0.69	6.22	1	2.88	5	-31	Pass
NVNT	n40	5270	-4.67	0.34	6.22	1	1.43	2.5	-66	Pass
NVNT	n40	5310	-4.76	0.33	6.22	1	1.40	2.5	-67	Pass
NVNT	ac20	5260	-2.32	0.59	6.22	1	2.45	5	-41	Pass
NVNT	ac20	5280	-1.74	0.67	6.22	1	2.81	5	-33	Pass
NVNT	ac20	5320	-2.04	0.63	6.22	1	2.62	5	-37	Pass
NVNT	ac40	5270	-4.82	0.33	6.22	1	1.38	2.5	-67	Pass
NVNT	ac40	5310	-4.85	0.33	6.22	1	1.37	2.5	-67	Pass
NVNT	ax20	5260	-1.38	0.73	6.22	1	3.05	5	-27	Pass
NVNT	ax20	5280	-0.9	0.81	6.22	1	3.40	5	-19	Pass
NVNT	ax20	5320	-1.18	0.76	6.22	1	3.19	5	-24	Pass
NVNT	ax40	5270	-3.49	0.45	6.22	1	1.87	2.5	-55	Pass
NVNT	ax40	5310	-3.38	0.46	6.22	1	1.92	2.5	-54	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

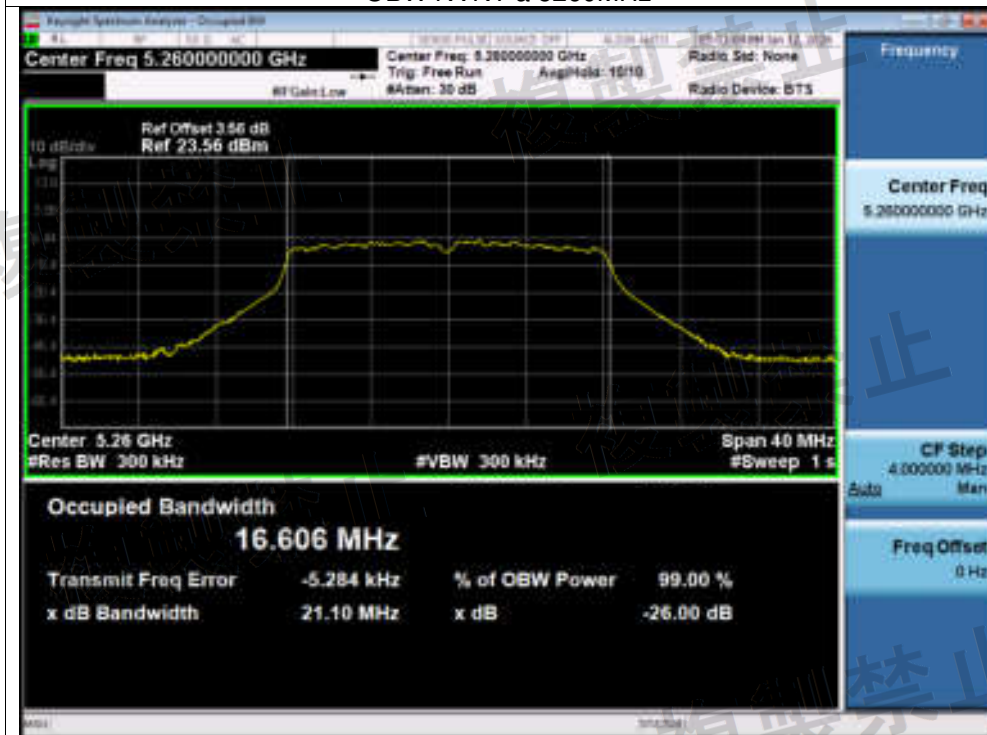
- Setting of SA is following as: RB: 300kHz / VB: 300 kHz / SPAN: 3MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive: peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous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

9.4 Test Result

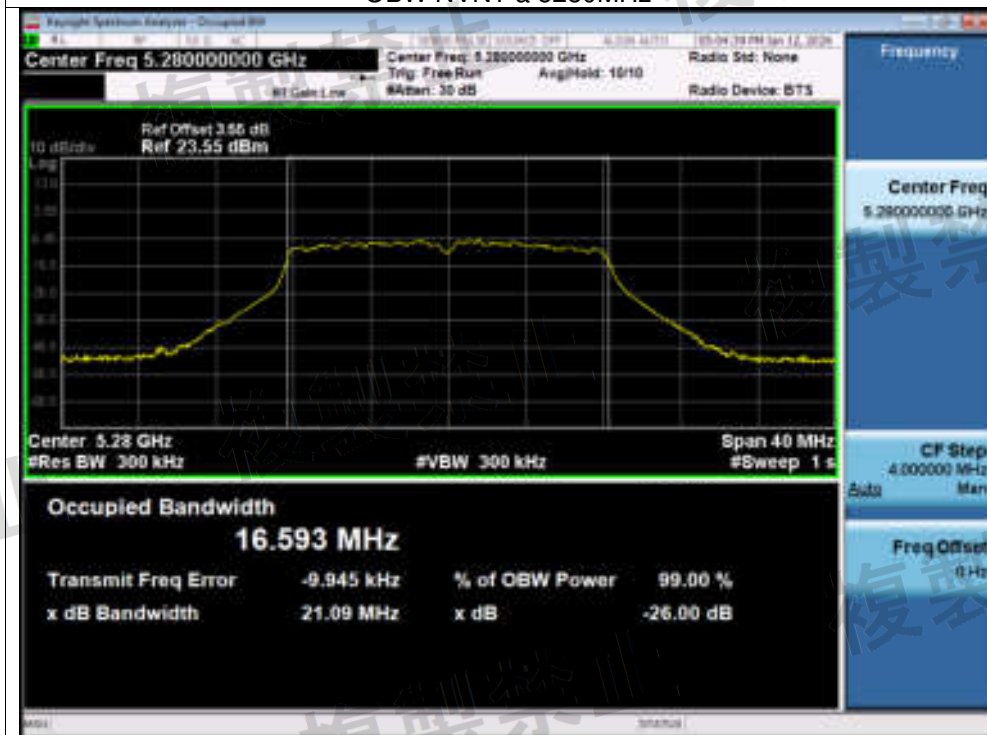
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5260	16.606	20	Pass
NVNT	a	5280	16.593	20	Pass
NVNT	a	5320	16.607	20	Pass
NVNT	n20	5260	17.792	20	Pass
NVNT	n20	5280	17.775	20	Pass
NVNT	n20	5320	17.781	20	Pass
NVNT	n40	5270	35.86	40	Pass
NVNT	n40	5310	35.87	40	Pass
NVNT	ac20	5260	17.838	20	Pass
NVNT	ac20	5280	17.828	20	Pass
NVNT	ac20	5320	17.841	20	Pass
NVNT	ac40	5270	35.814	40	Pass
NVNT	ac40	5310	35.824	40	Pass
NVNT	ax20	5260	19.018	20	Pass
NVNT	ax20	5280	19.012	20	Pass
NVNT	ax20	5320	19.02	20	Pass
NVNT	ax40	5270	37.577	40	Pass
NVNT	ax40	5310	37.585	40	Pass

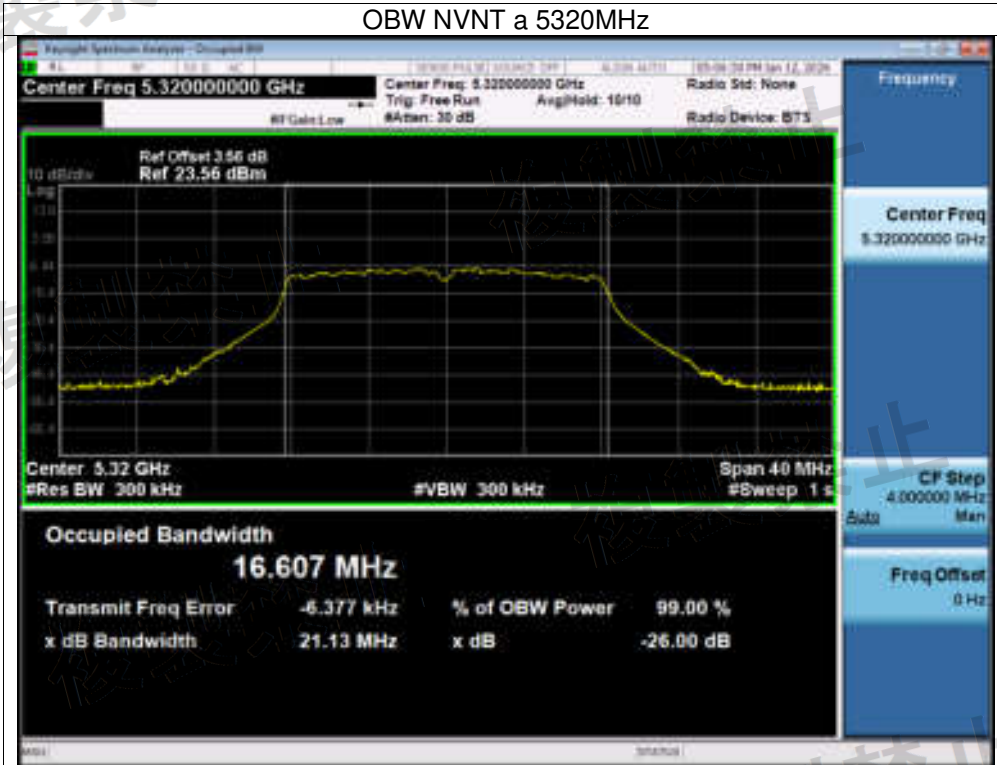
Test Graphs
OBW NVNT a 5260MHz



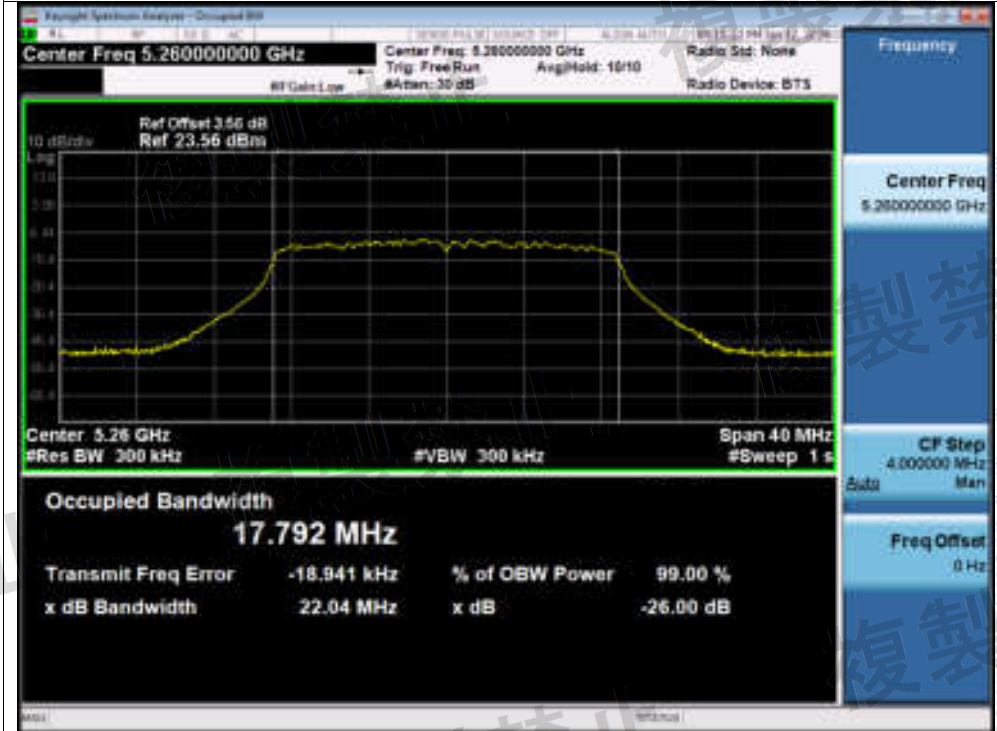
OBW NVNT a 5280MHz



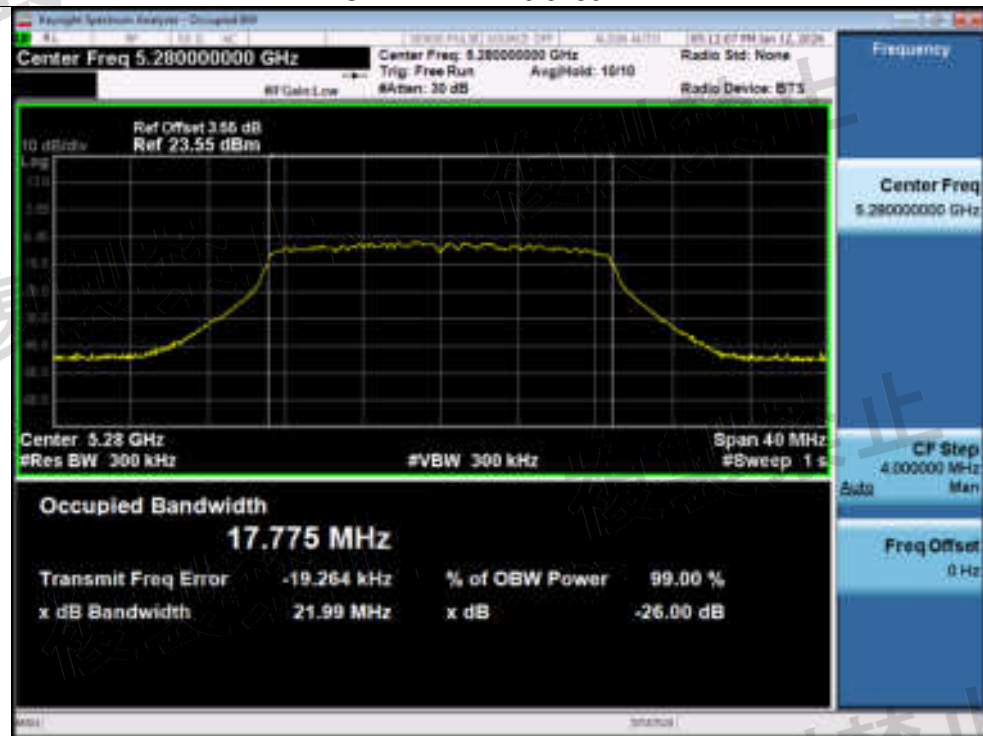
OBW NVNT a 5320MHz



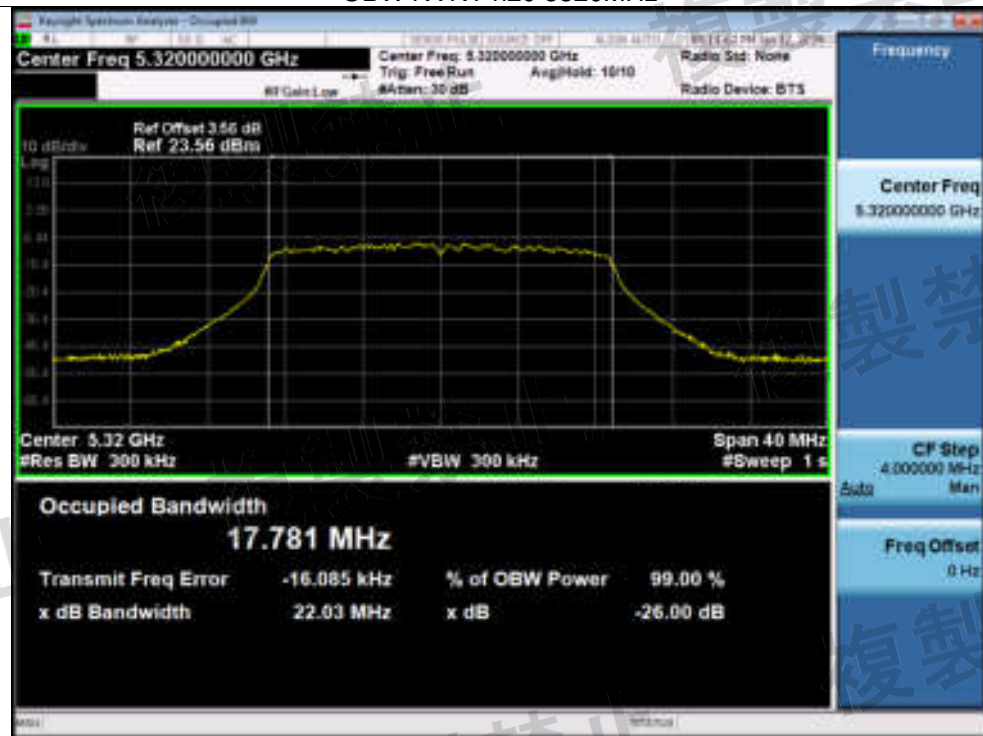
OBW NVNT n20 5260MHz



OBW NVNT n20 5280MHz



OBW NVNT n20 5320MHz



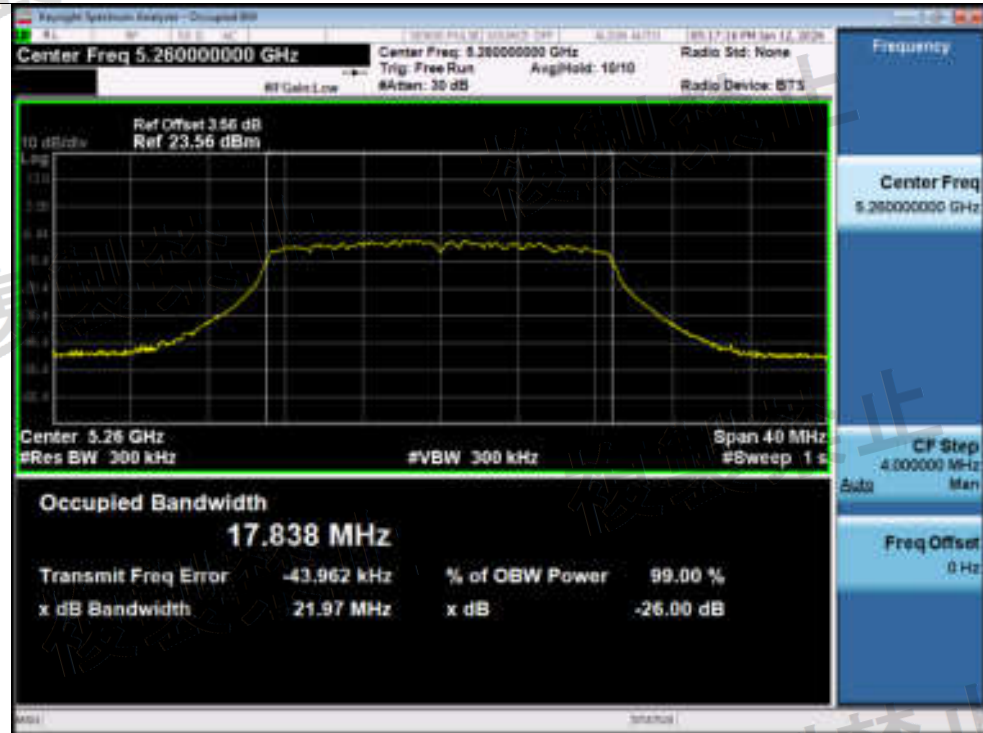
OBW NVNT n40 5270MHz



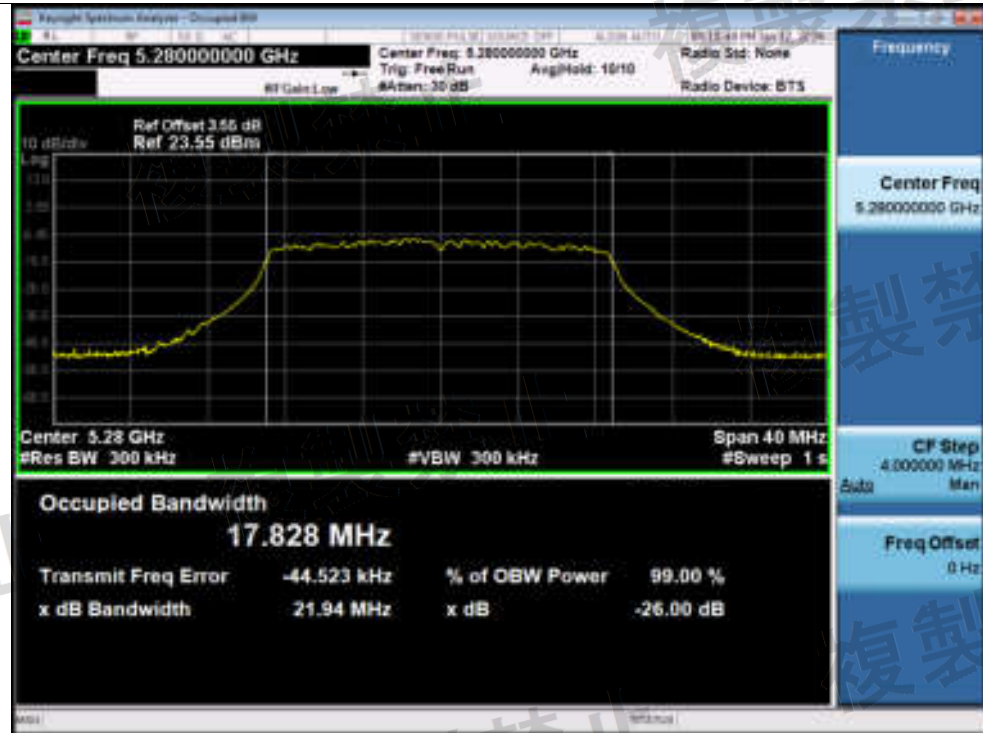
OBW NVNT n40 5310MHz



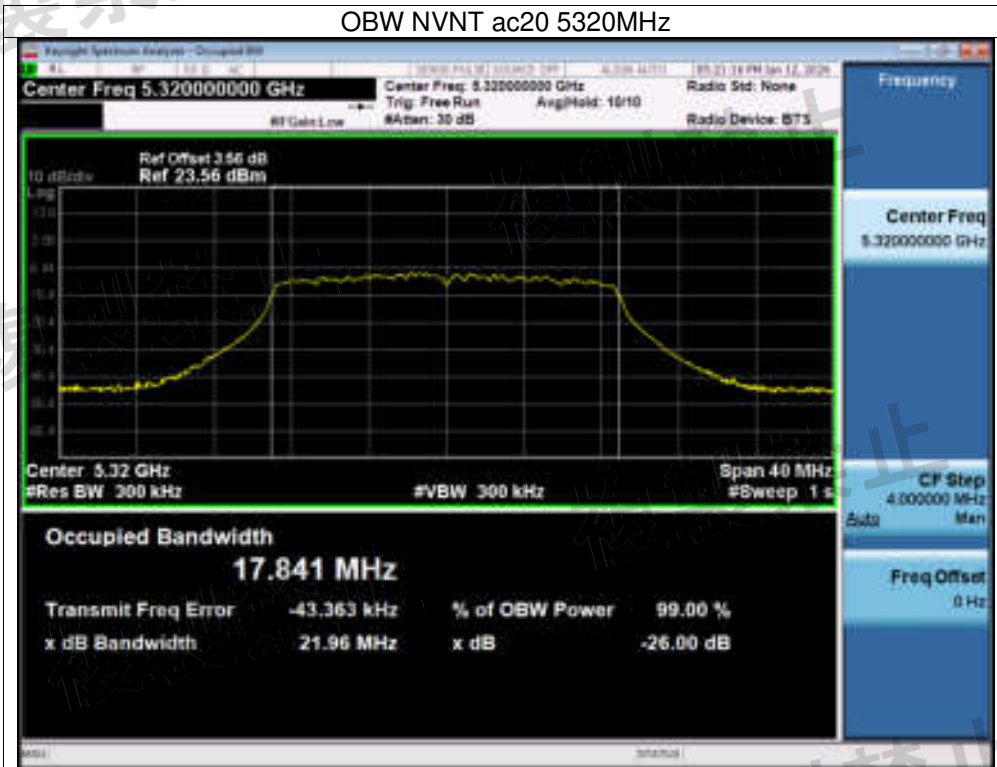
OBW NVNT ac20 5260MHz



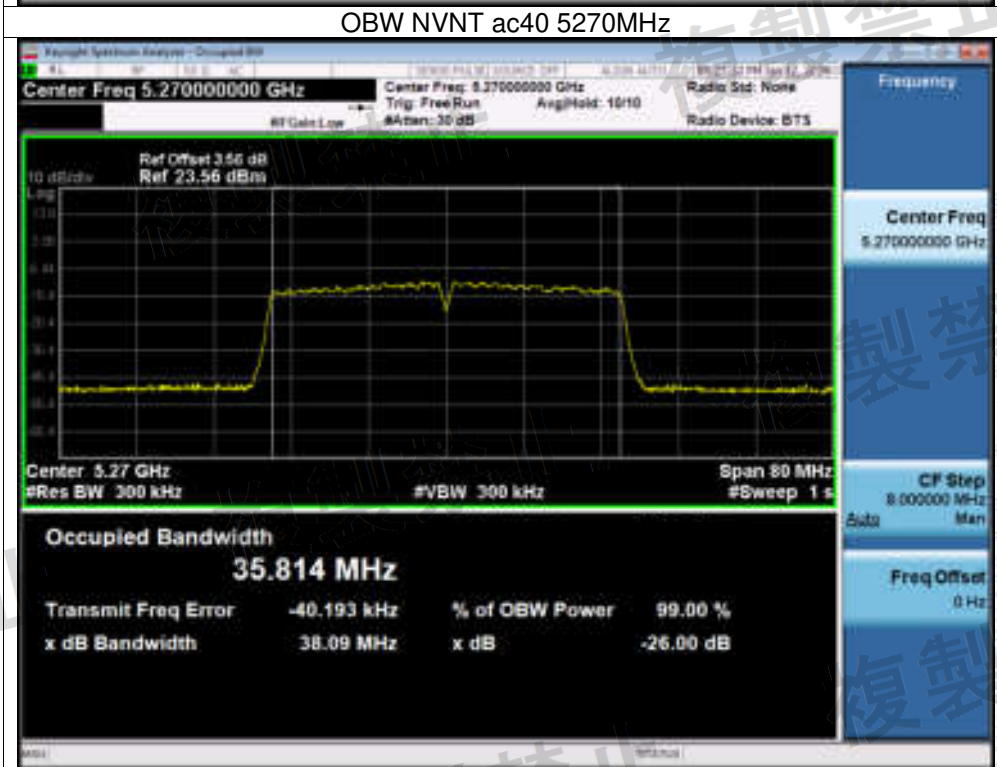
OBW NVNT ac20 5280MHz



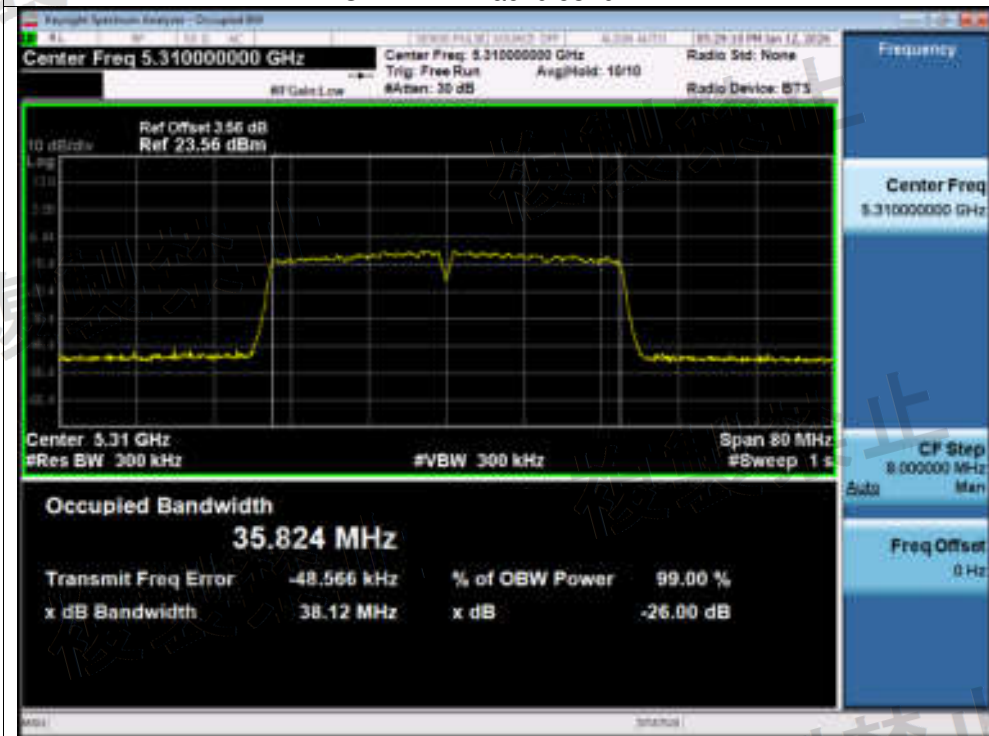
OBW NVNT ac20 5320MHz



OBW NVNT ac40 5270MHz



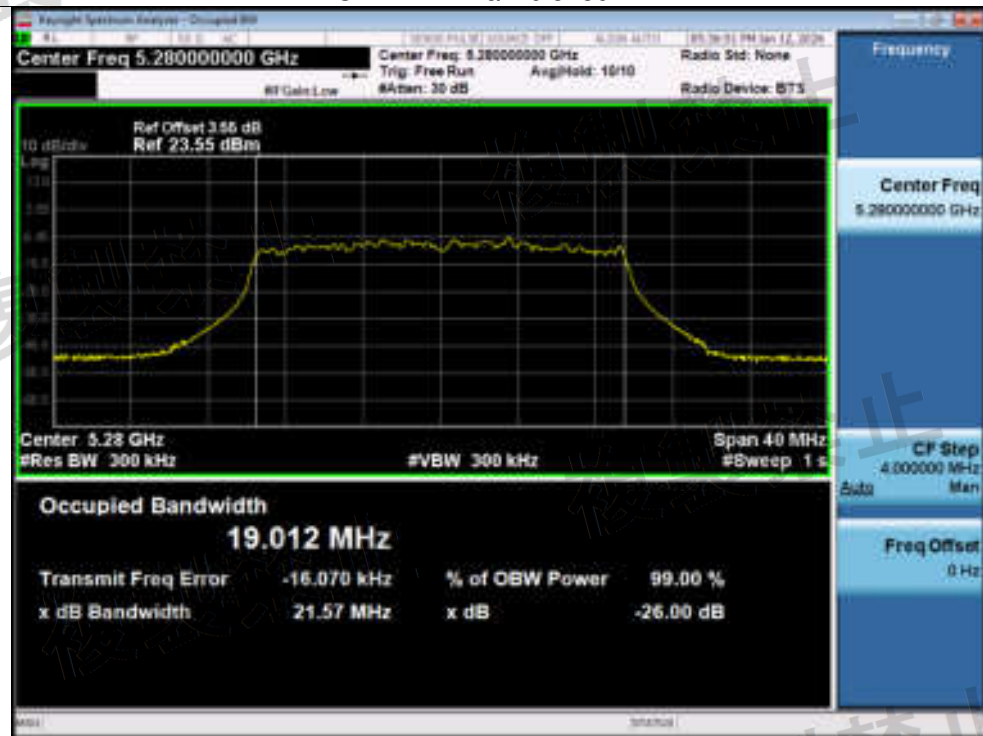
OBW NVNT ac40 5310MHz



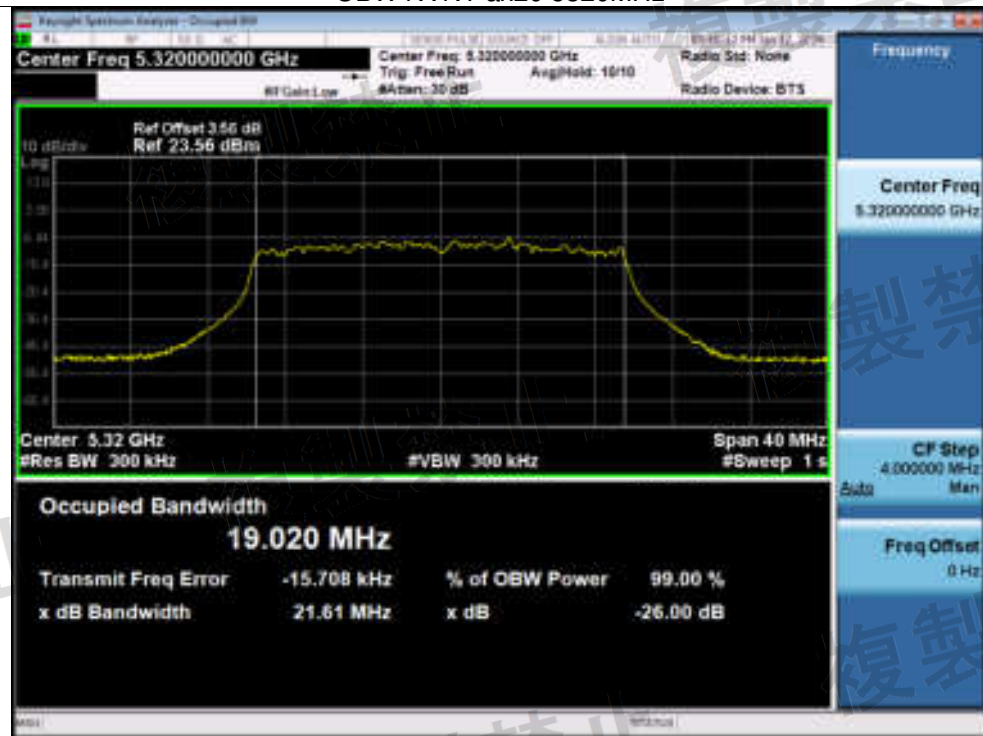
OBW NVNT ax20 5260MHz



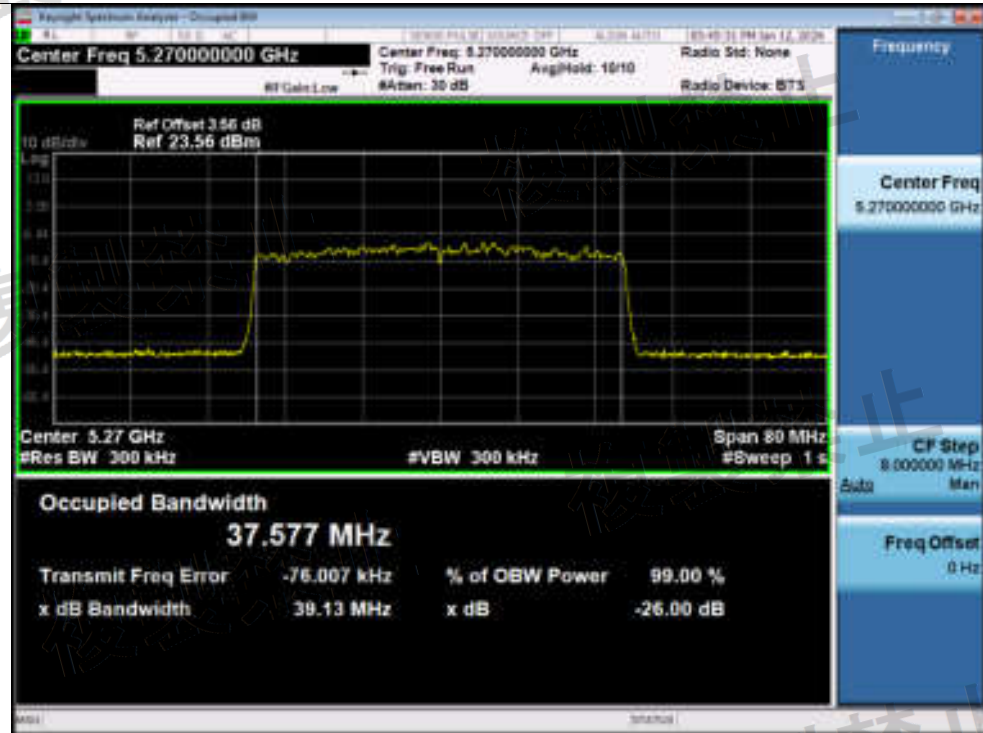
OBW NVNT ax20 5280MHz



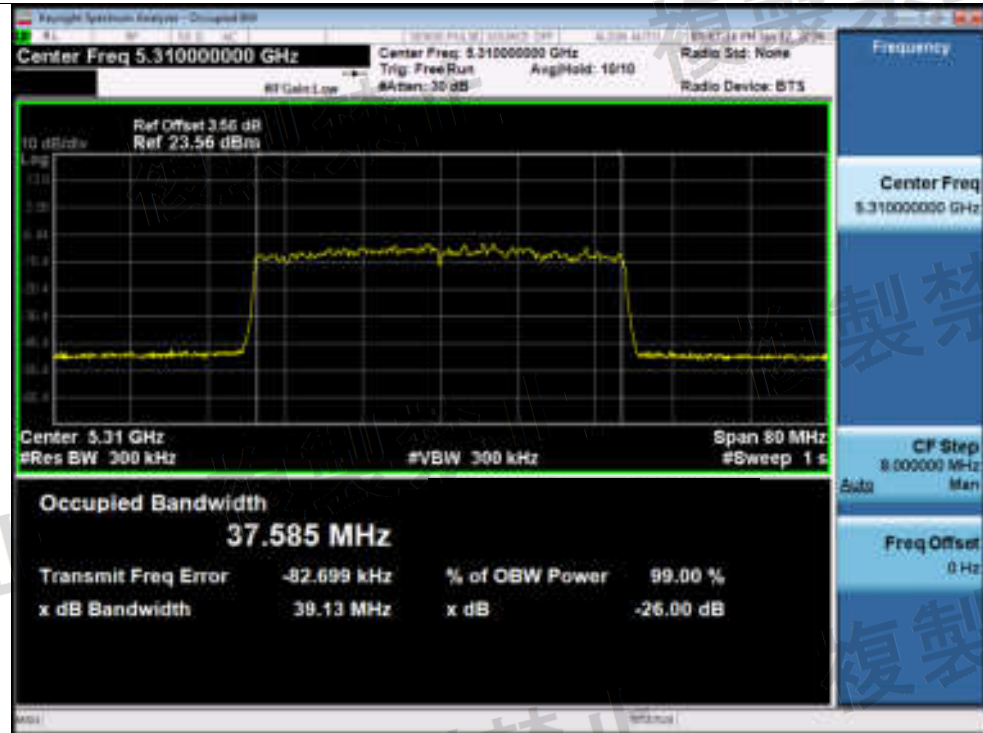
OBW NVNT ax20 5320MHz



OBW NVNT ax40 5270MHz

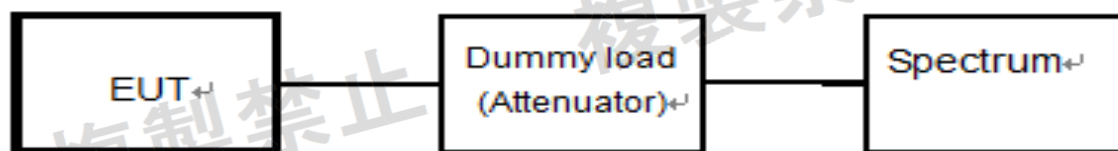


OBW NVNT ax40 5310MHz



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

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: 100 KHz/ Above 1GHz RB: 1 MHz / VB: 1 MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto/Sweep Mode: Continuous sweep / Detect mode: Positive peak/
Trace mode: Max hold

10.5 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

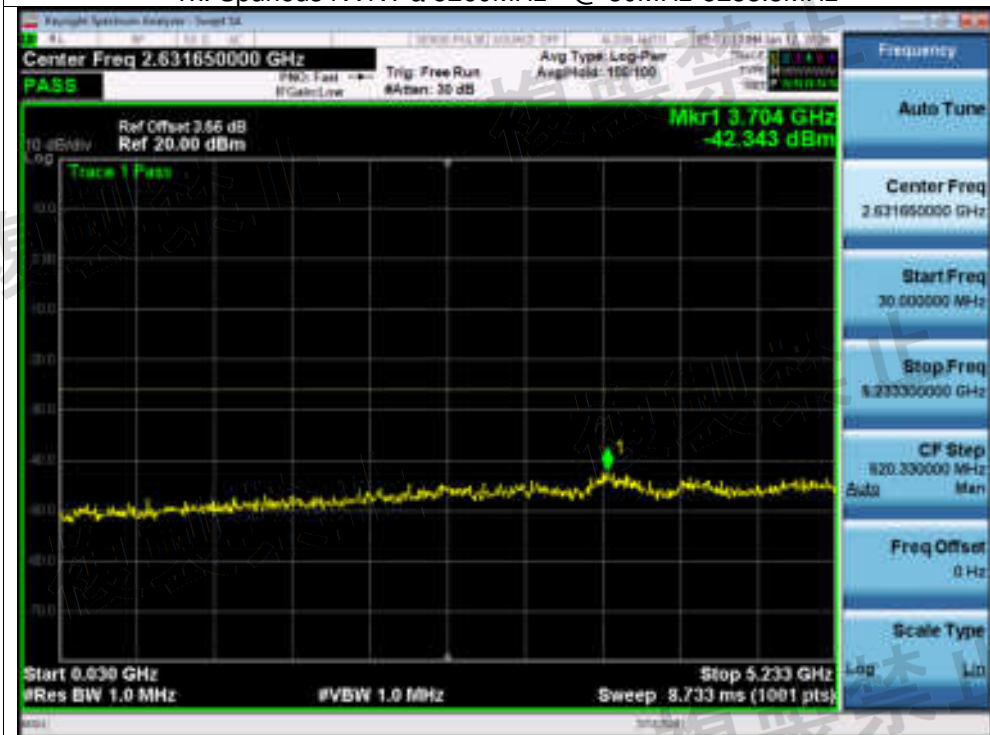
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	a	5260	30-5233.3	3703.53	-42.34	-26	-26	Pass
NVNT	a	5260	5233.3-5240	5237.74	-44.08	-26	-18	Pass
NVNT	a	5260	5240-5249	5248.94	-25.87	-18	-10	Pass
NVNT	a	5260	5249-5250	5249.99	-20.66	-10	0	Pass
NVNT	a	5260	5350-26000	25938.05	-33.33	-26	-26	Pass
NVNT	a	5280	30-5233.3	5176.06	-42.71	-26	-26	Pass
NVNT	a	5280	5233.3-5240	5236.93	-44.86	-26	-18	Pass
NVNT	a	5280	5240-5249	5242.2	-44.4	-18	-10	Pass
NVNT	a	5280	5249-5250	5249.67	-44.85	-10	0	Pass
NVNT	a	5280	5350-26000	26000	-33.8	-26	-26	Pass
NVNT	a	5320	30-5233.3	3729.55	-42.29	-26	-26	Pass
NVNT	a	5320	5233.3-5240	5235.07	-44.74	-26	-18	Pass
NVNT	a	5320	5240-5249	5247.18	-44.55	-18	-10	Pass
NVNT	a	5320	5249-5250	5249.27	-44.83	-10	0	Pass
NVNT	a	5320	5350-26000	25525.05	-33.17	-26	-26	Pass
NVNT	n20	5260	30-5233.3	5170.86	-42.81	-26	-26	Pass
NVNT	n20	5260	5233.3-5240	5238.3	-45.02	-26	-18	Pass
NVNT	n20	5260	5240-5249	5248.97	-24.71	-18	-10	Pass

NVNT	n20	5260	5249-5250	5250	-18.38	-10	0	Pass
NVNT	n20	5260	5350-26000	25380.5	-33.74	-26	-26	Pass
NVNT	n20	5280	30-5233.3	3682.72	-42.53	-26	-26	Pass
NVNT	n20	5280	5233.3-5240	5235.26	-44.58	-26	-18	Pass
NVNT	n20	5280	5240-5249	5240.61	-44.82	-18	-10	Pass
NVNT	n20	5280	5249-5250	5249.09	-44.66	-10	0	Pass
NVNT	n20	5280	5350-26000	25669.6	-33.43	-26	-26	Pass
NVNT	n20	5320	30-5233.3	3755.56	-42.59	-26	-26	Pass
NVNT	n20	5320	5233.3-5240	5234.62	-43.67	-26	-18	Pass
NVNT	n20	5320	5240-5249	5248.33	-44.55	-18	-10	Pass
NVNT	n20	5320	5249-5250	5249.92	-44.77	-10	0	Pass
NVNT	n20	5320	5350-26000	25442.45	-32.86	-26	-26	Pass
NVNT	n40	5270	30-5221.6	5174.88	-39.86	-26	-26	Pass
NVNT	n40	5270	5221.6-5230	5225.46	-44.76	-26	-21	Pass
NVNT	n40	5270	5230-5249	5244.52	-44.22	-21	-13	Pass
NVNT	n40	5270	5249-5250	5249.98	-38.22	-13	-3	Pass
NVNT	n40	5270	5350-5358.4	5354.8	-44.91	-18	-18	Pass
NVNT	n40	5270	5358.4-26000	25607.81	-33.76	-26	-26	Pass
NVNT	n40	5310	30-5221.6	3679.69	-42.85	-26	-26	Pass
NVNT	n40	5310	5221.6-5230	5227.25	-44.77	-26	-21	Pass
NVNT	n40	5310	5230-5249	5245.79	-44.96	-21	-13	Pass
NVNT	n40	5310	5249-5250	5249.85	-45.21	-13	-3	Pass
NVNT	n40	5310	5350-5358.4	5351.93	-45.07	-18	-18	Pass
NVNT	n40	5310	5358.4-26000	25896.79	-33.78	-26	-26	Pass
NVNT	ac20	5260	30-5233.3	3724.34	-42.81	-26	-26	Pass
NVNT	ac20	5260	5233.3-5240	5239.67	-44.69	-26	-18	Pass
NVNT	ac20	5260	5240-5249	5248.97	-25.12	-18	-10	Pass
NVNT	ac20	5260	5249-5250	5249.99	-17.73	-10	0	Pass
NVNT	ac20	5260	5350-26000	25607.65	-33.01	-26	-26	Pass
NVNT	ac20	5280	30-5233.3	5176.06	-40.55	-26	-26	Pass
NVNT	ac20	5280	5233.3-5240	5236.18	-44.24	-26	-18	Pass
NVNT	ac20	5280	5240-5249	5243.47	-44.43	-18	-10	Pass
NVNT	ac20	5280	5249-5250	5249.27	-44.55	-10	0	Pass
NVNT	ac20	5280	5350-26000	25256.6	-33.42	-26	-26	Pass
NVNT	ac20	5320	30-5233.3	5186.47	-40.83	-26	-26	Pass
NVNT	ac20	5320	5233.3-5240	5234.6	-44.88	-26	-18	Pass
NVNT	ac20	5320	5240-5249	5241.62	-43.77	-18	-10	Pass
NVNT	ac20	5320	5249-5250	5249.15	-45.21	-10	0	Pass
NVNT	ac20	5320	5350-26000	25958.7	-32.08	-26	-26	Pass
NVNT	ac40	5270	30-5221.6	3752.38	-42.46	-26	-26	Pass
NVNT	ac40	5270	5221.6-5230	5227.15	-44.03	-26	-21	Pass
NVNT	ac40	5270	5230-5249	5241.1	-43.63	-21	-13	Pass
NVNT	ac40	5270	5249-5250	5249.99	-37.9	-13	-3	Pass
NVNT	ac40	5270	5350-5358.4	5352.25	-45.12	-18	-18	Pass
NVNT	ac40	5270	5358.4-26000	25669.73	-33.65	-26	-26	Pass
NVNT	ac40	5310	30-5221.6	3653.74	-42.18	-26	-26	Pass

NVNT	ac40	5310	5221.6-5230	5226.3	-43.59	-26	-21	Pass
NVNT	ac40	5310	5230-5249	5247.37	-44.09	-21	-13	Pass
NVNT	ac40	5310	5249-5250	5249.17	-44.65	-13	-3	Pass
NVNT	ac40	5310	5350-5358.4	5357.89	-45.27	-18	-18	Pass
NVNT	ac40	5310	5358.4-26000	26000	-33.21	-26	-26	Pass
NVNT	ax20	5260	30-5233.3	5176.06	-40.22	-26	-26	Pass
NVNT	ax20	5260	5233.3-5240	5239.58	-44.16	-26	-18	Pass
NVNT	ax20	5260	5240-5249	5248.95	-24.93	-18	-10	Pass
NVNT	ax20	5260	5249-5249.8	5249.78	-16.4	-10	-2	Pass
NVNT	ax20	5260	5249.8-5250	5250	-14.51	-2	3	Pass
NVNT	ax20	5260	5350-26000	25958.7	-33.71	-26	-26	Pass
NVNT	ax20	5280	30-5233.3	5176.06	-42.33	-26	-26	Pass
NVNT	ax20	5280	5233.3-5240	5236	-44.81	-26	-18	Pass
NVNT	ax20	5280	5240-5249	5246.33	-44.43	-18	-10	Pass
NVNT	ax20	5280	5249-5249.8	5249.66	-44.83	-10	-2	Pass
NVNT	ax20	5280	5249.8-5250	5249.98	-45.17	-2	3	Pass
NVNT	ax20	5280	5350-26000	25628.3	-33.9	-26	-26	Pass
NVNT	ax20	5320	30-5233.3	5176.06	-41.15	-26	-26	Pass
NVNT	ax20	5320	5233.3-5240	5234.67	-44.37	-26	-18	Pass
NVNT	ax20	5320	5240-5249	5242.55	-45.08	-18	-10	Pass
NVNT	ax20	5320	5249-5249.8	5249.71	-45.17	-10	-2	Pass
NVNT	ax20	5320	5249.8-5250	5249.82	-45.2	-2	3	Pass
NVNT	ax20	5320	5350-26000	24926.2	-34.09	-26	-26	Pass
NVNT	ax40	5270	30-5221.6	5174.88	-38.5	-26	-26	Pass
NVNT	ax40	5270	5221.6-5230	5226.59	-44.58	-26	-21	Pass
NVNT	ax40	5270	5230-5249	5245.41	-43.65	-21	-13	Pass
NVNT	ax40	5270	5249-5250	5250	-26.12	-13	-3	Pass
NVNT	ax40	5270	5350-5358.4	5355.38	-45.11	-18	-18	Pass
NVNT	ax40	5270	5358.4-26000	25938.08	-33.56	-26	-26	Pass
NVNT	ax40	5310	30-5221.6	3741.99	-42.5	-26	-26	Pass
NVNT	ax40	5310	5221.6-5230	5227.39	-45.28	-26	-21	Pass
NVNT	ax40	5310	5230-5249	5245.58	-44.89	-21	-13	Pass
NVNT	ax40	5310	5249-5250	5249.06	-44.44	-13	-3	Pass
NVNT	ax40	5310	5350-5358.4	5350.92	-45.39	-18	-18	Pass
NVNT	ax40	5310	5358.4-26000	25958.72	-33.6	-26	-26	Pass

Test Graphs

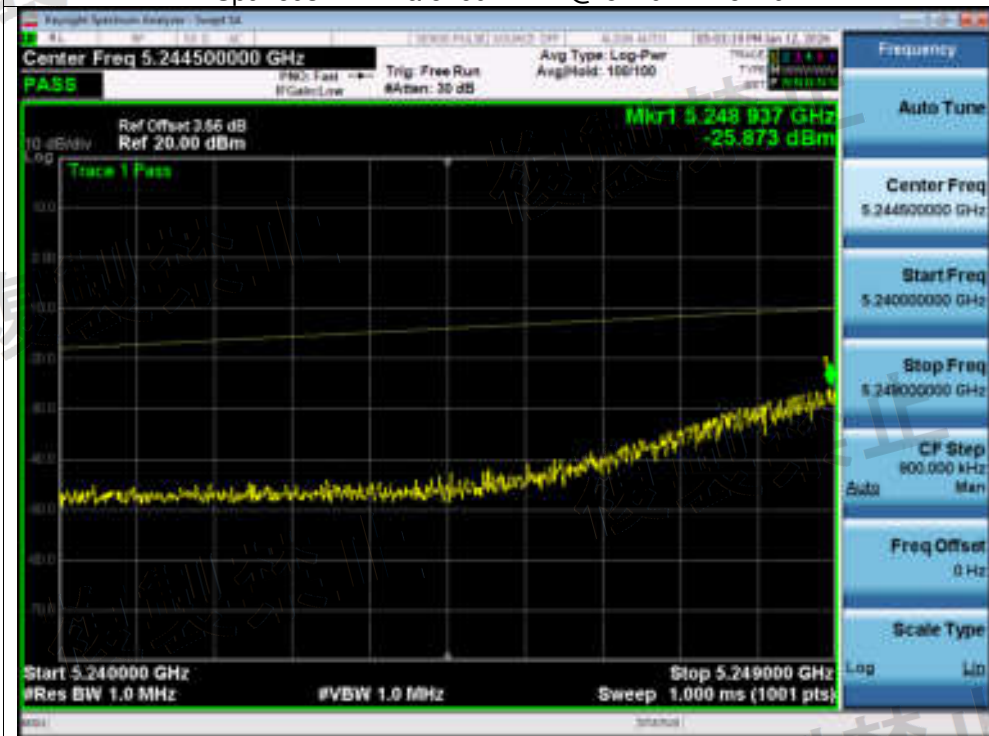
Tx. Spurious NVNT a 5260MHz @ 30MHz-5233.3MHz



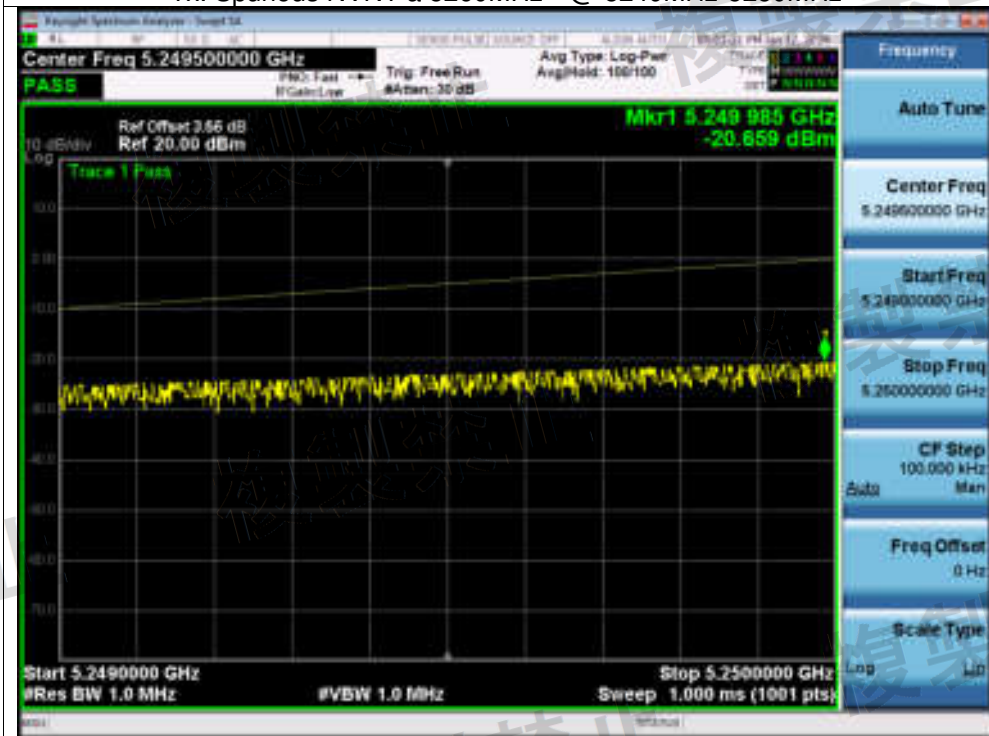
Tx. Spurious NVNT a 5260MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT a 5260MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT a 5260MHz @ 5249MHz-5250MHz



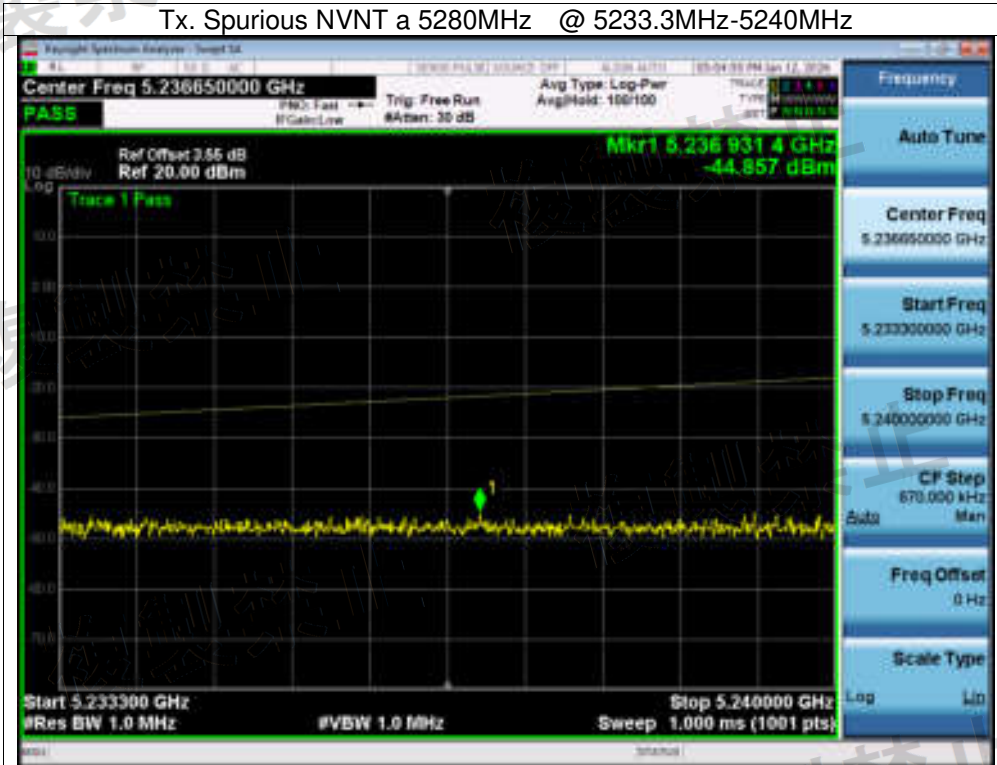
Tx. Spurious NVNT a 5260MHz @ 5350MHz-26000MHz



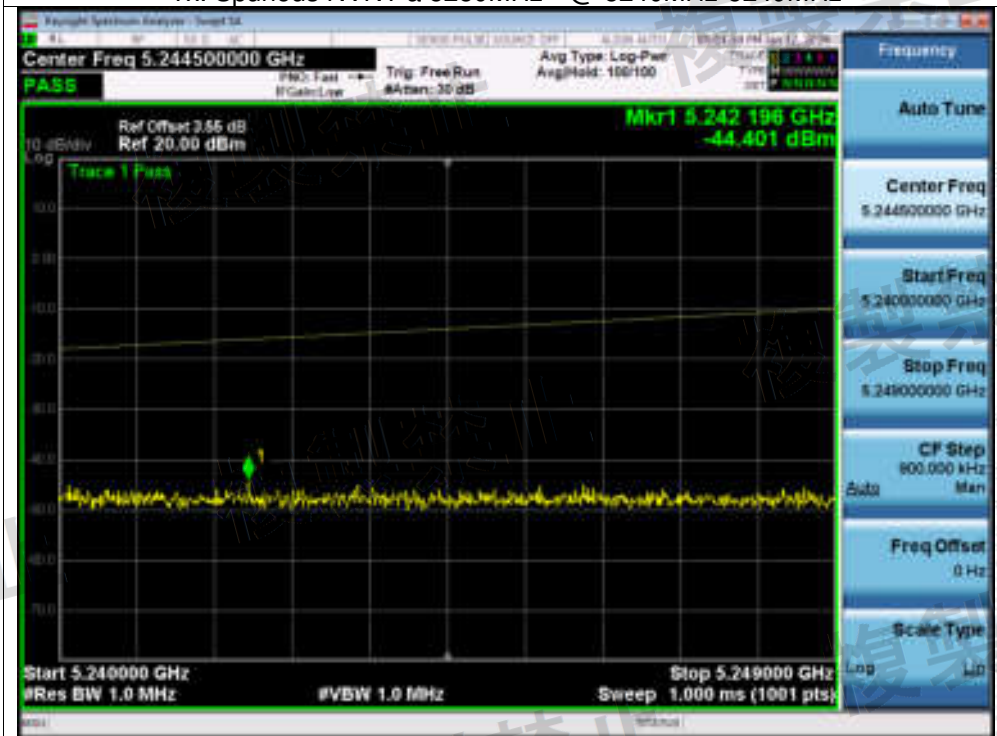
Tx. Spurious NVNT a 5280MHz @ 30MHz-5233.3MHz



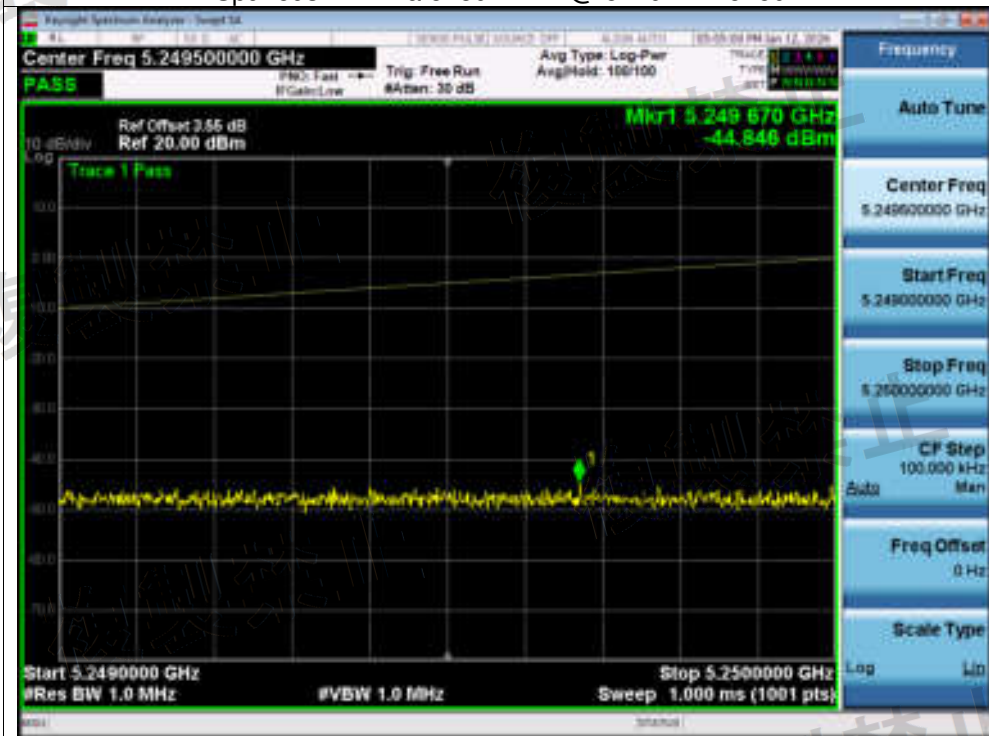
Tx. Spurious NVNT a 5280MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT a 5280MHz @ 5240MHz-5249MHz



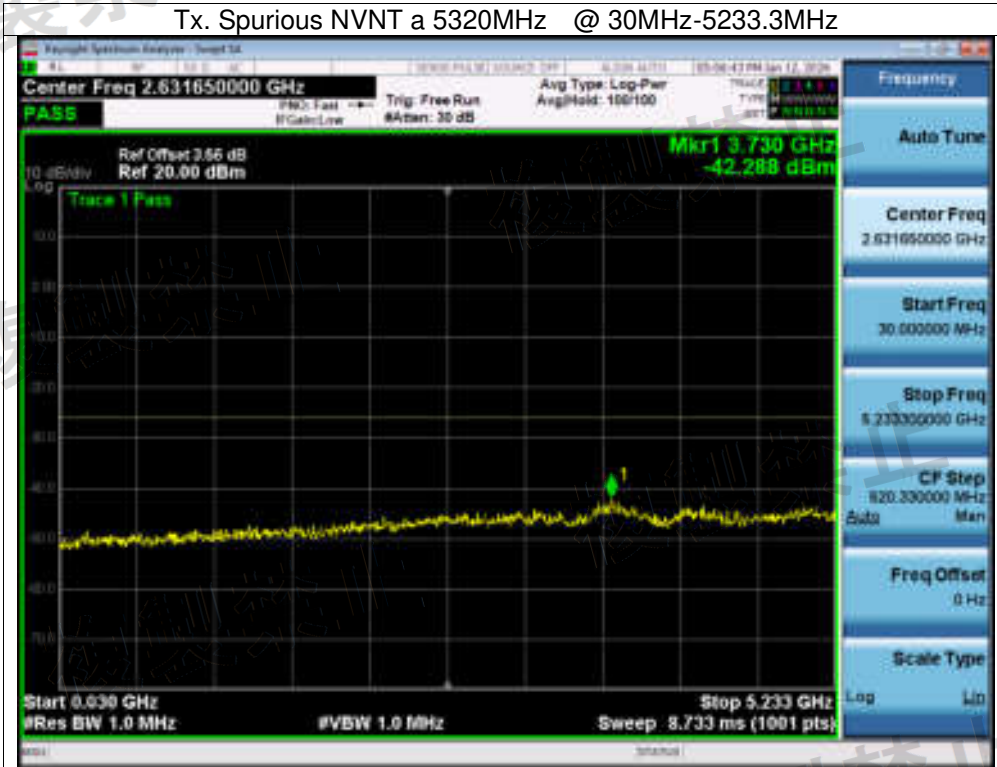
Tx. Spurious NVNT a 5280MHz @ 5249MHz-5250MHz



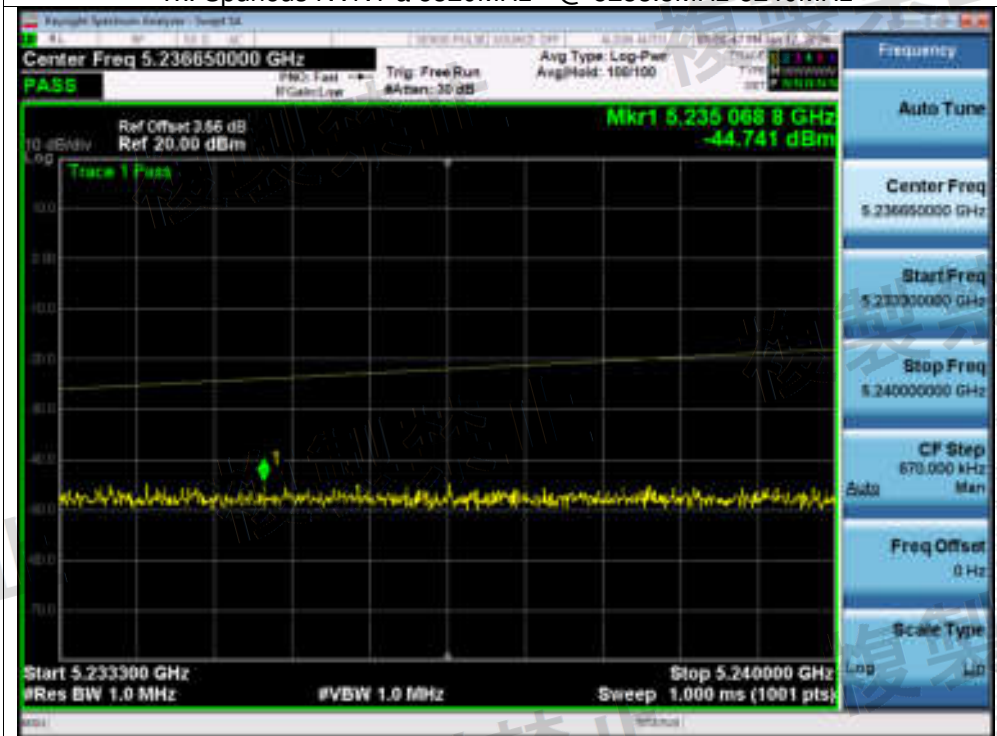
Tx. Spurious NVNT a 5280MHz @ 5350MHz-26000MHz



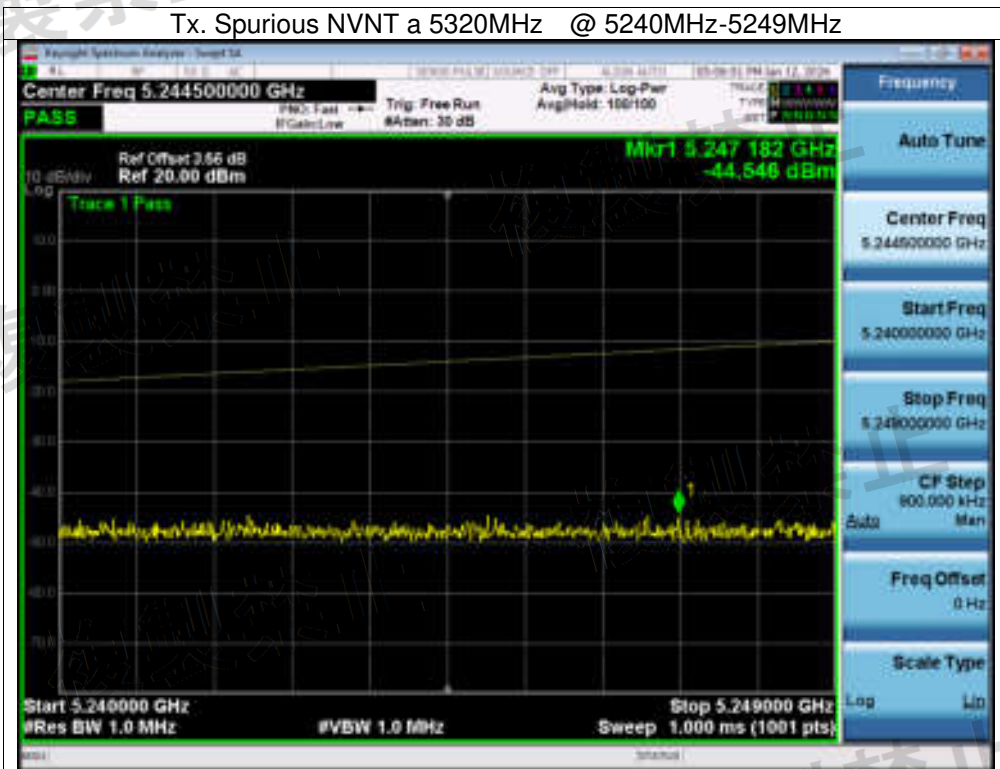
Tx. Spurious NVNT a 5320MHz @ 30MHz-5233.3MHz



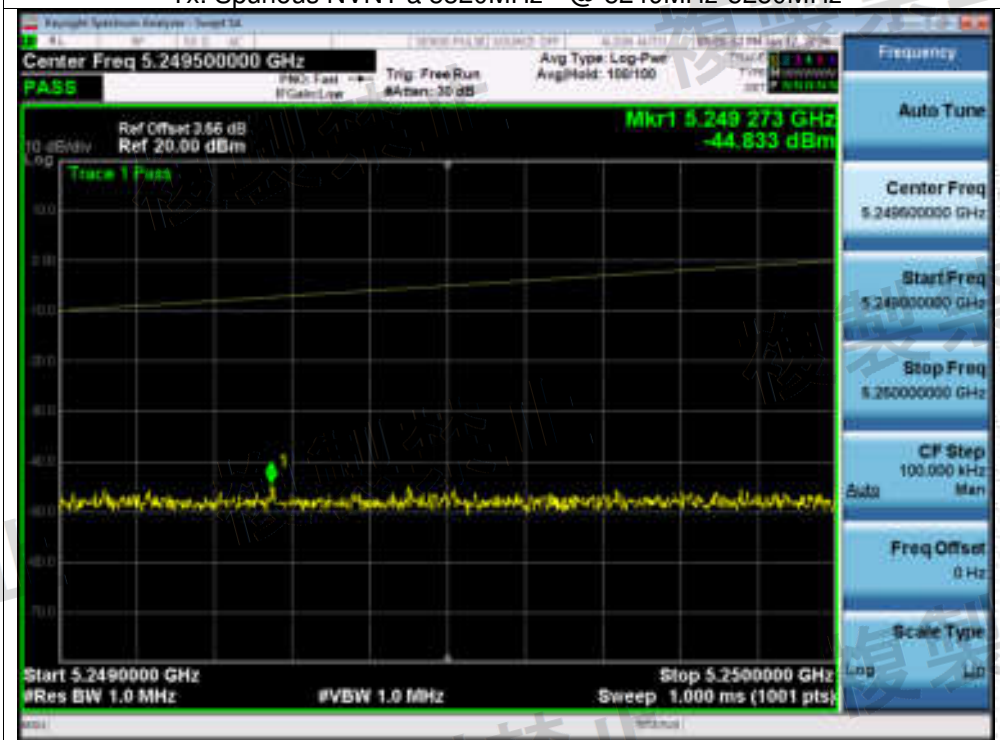
Tx. Spurious NVNT a 5320MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT a 5320MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT a 5320MHz @ 5249MHz-5250MHz



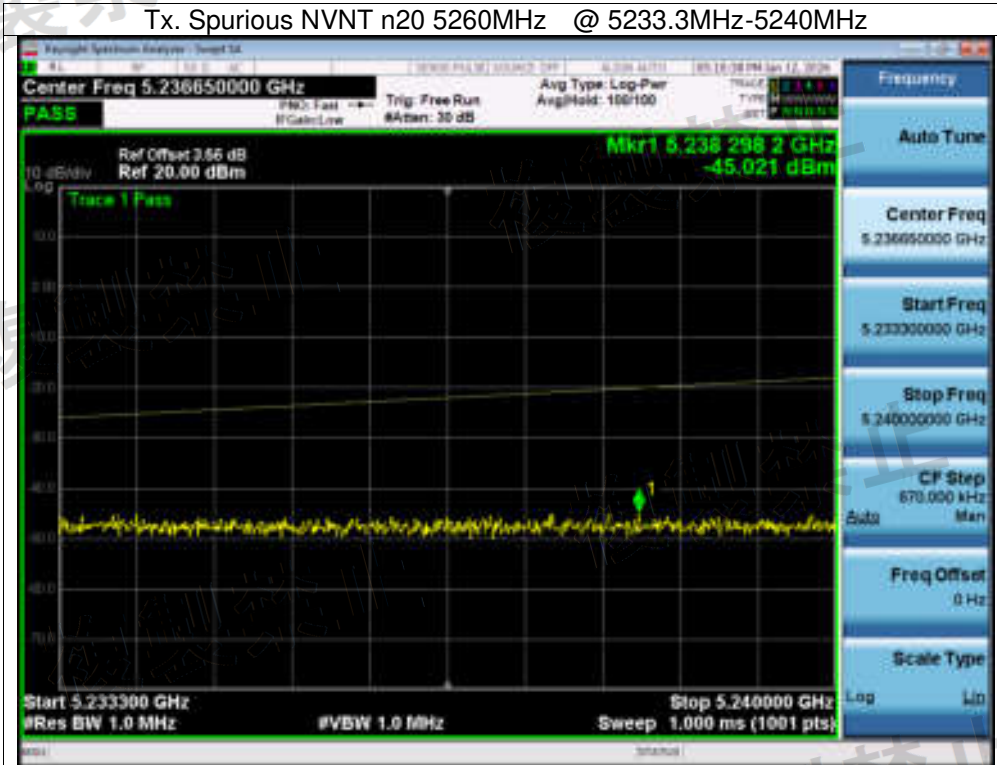
Tx. Spurious NVNT a 5320MHz @ 5350MHz-26000MHz



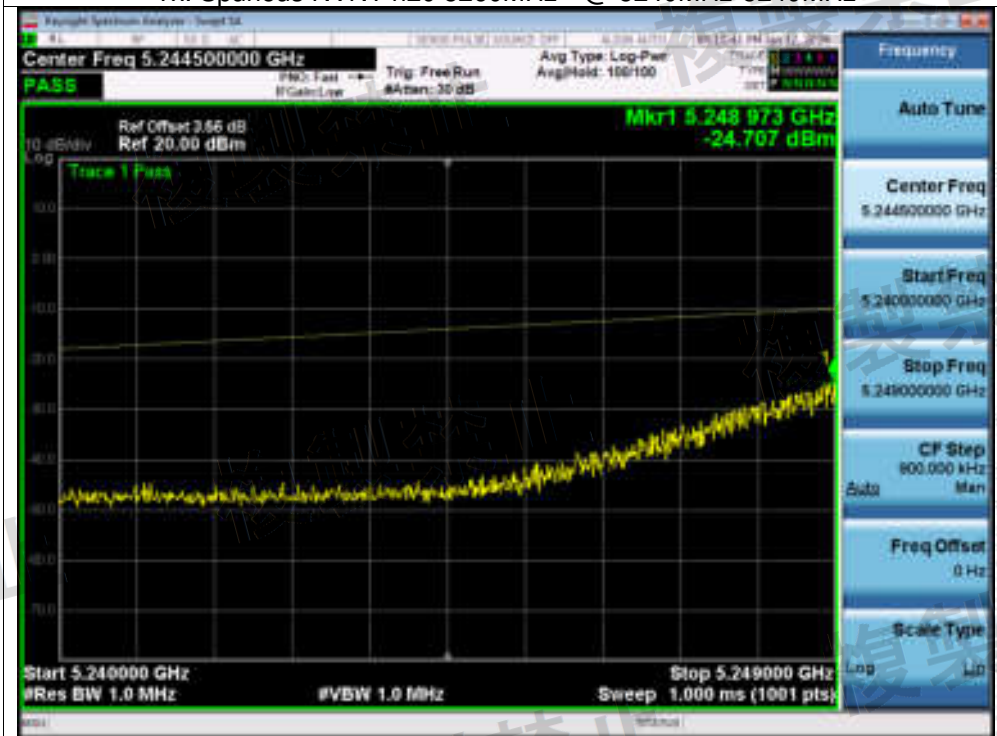
Tx. Spurious NVNT n20 5260MHz @ 30MHz-5233.3MHz



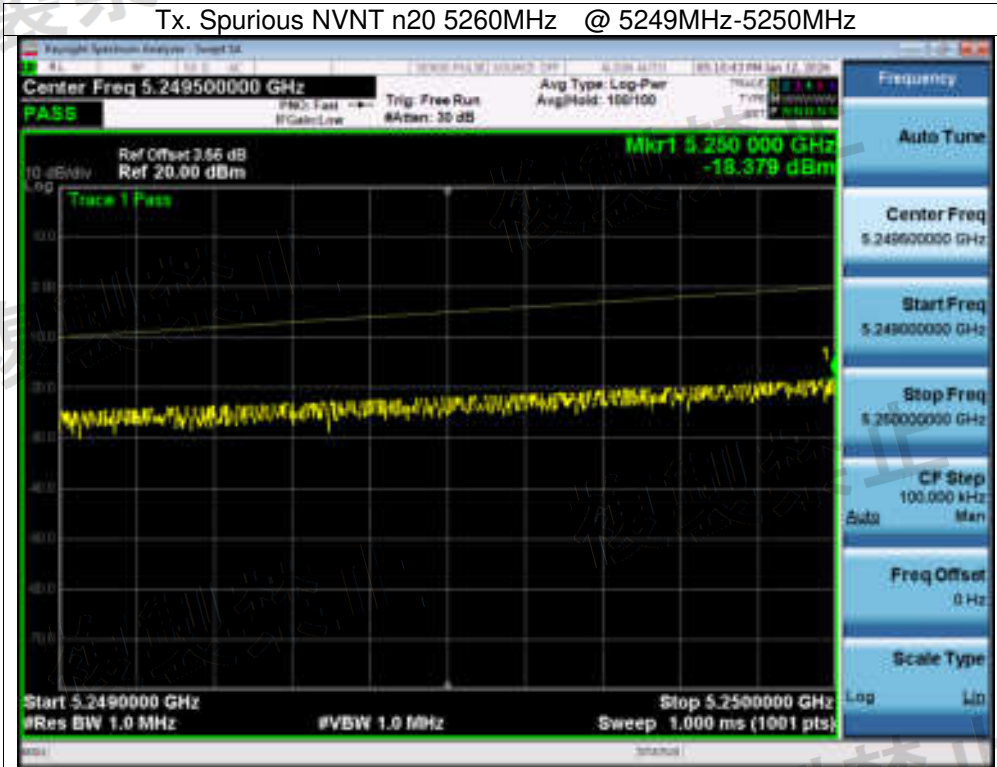
Tx. Spurious NVNT n20 5260MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT n20 5260MHz @ 5240MHz-5249MHz



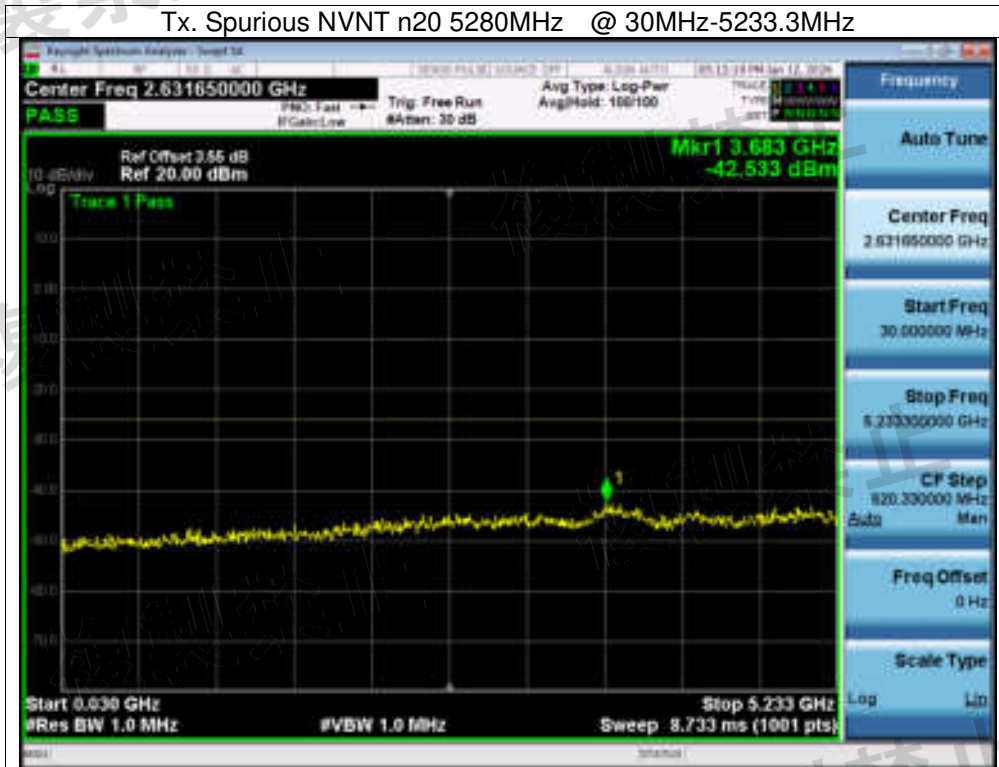
Tx. Spurious NVNT n20 5260MHz @ 5249MHz-5250MHz



Tx. Spurious NVNT n20 5260MHz @ 5350MHz-26000MHz



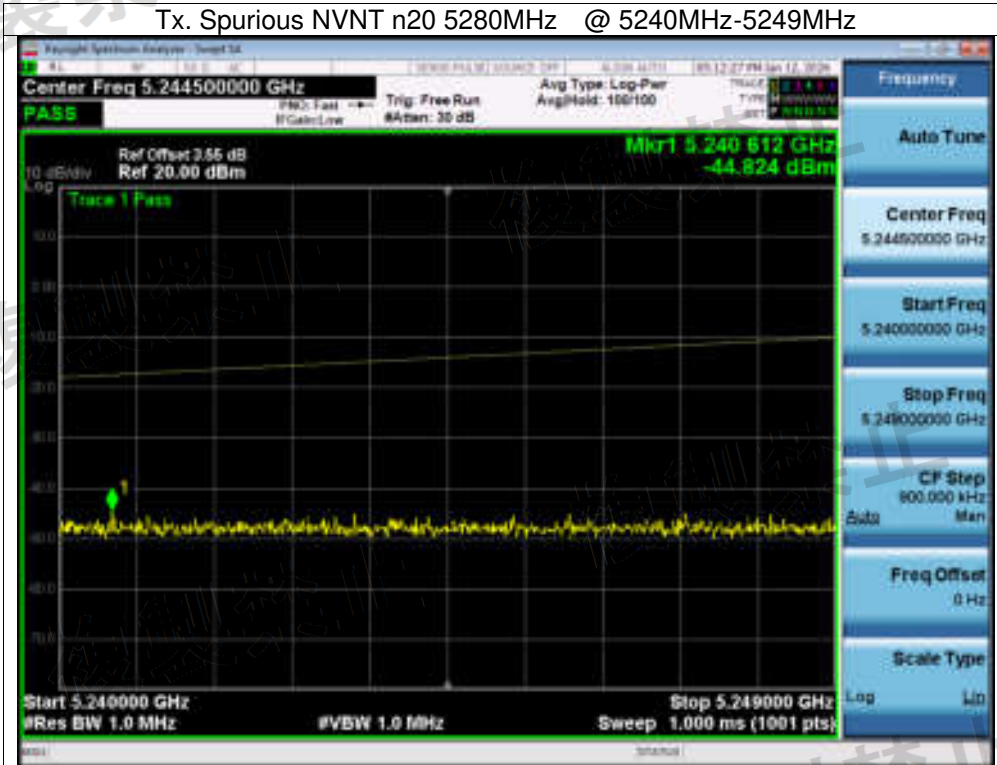
Tx. Spurious NVNT n20 5280MHz @ 30MHz-5233.3MHz



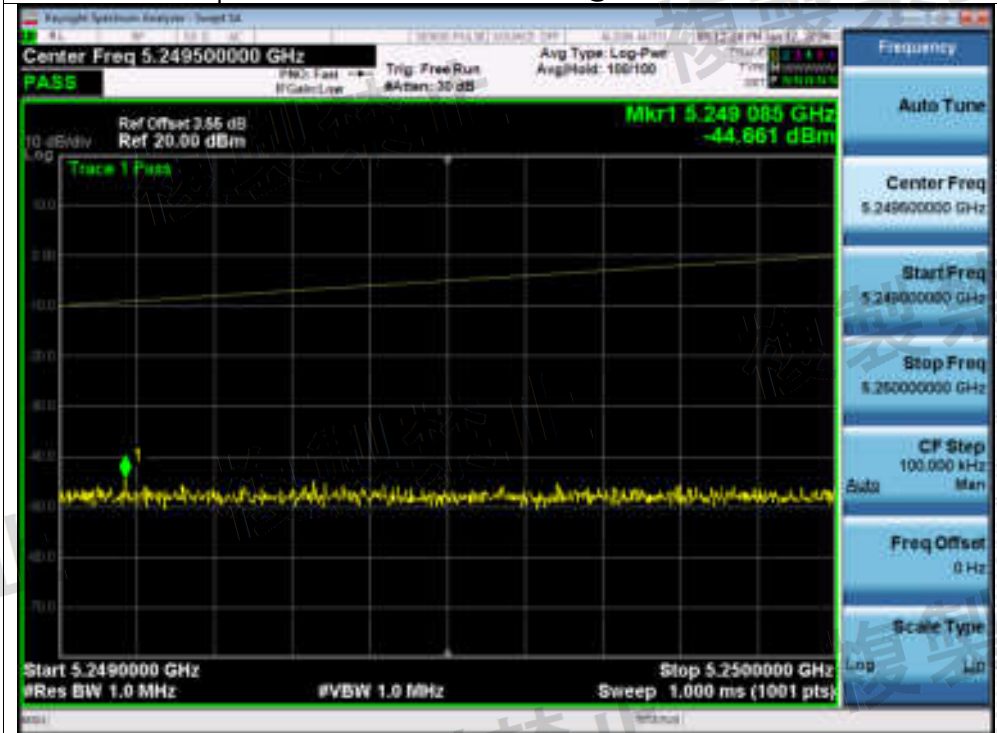
Tx. Spurious NVNT n20 5280MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT n20 5280MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT n20 5280MHz @ 5249MHz-5250MHz



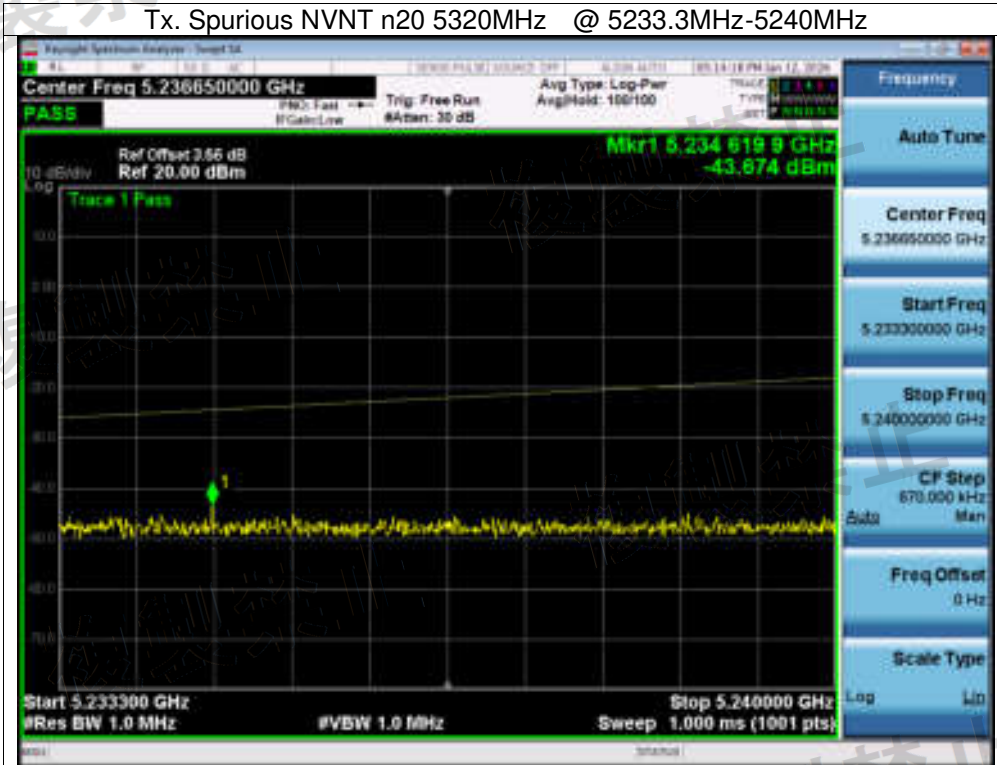
Tx. Spurious NVNT n20 5280MHz @ 5350MHz-26000MHz



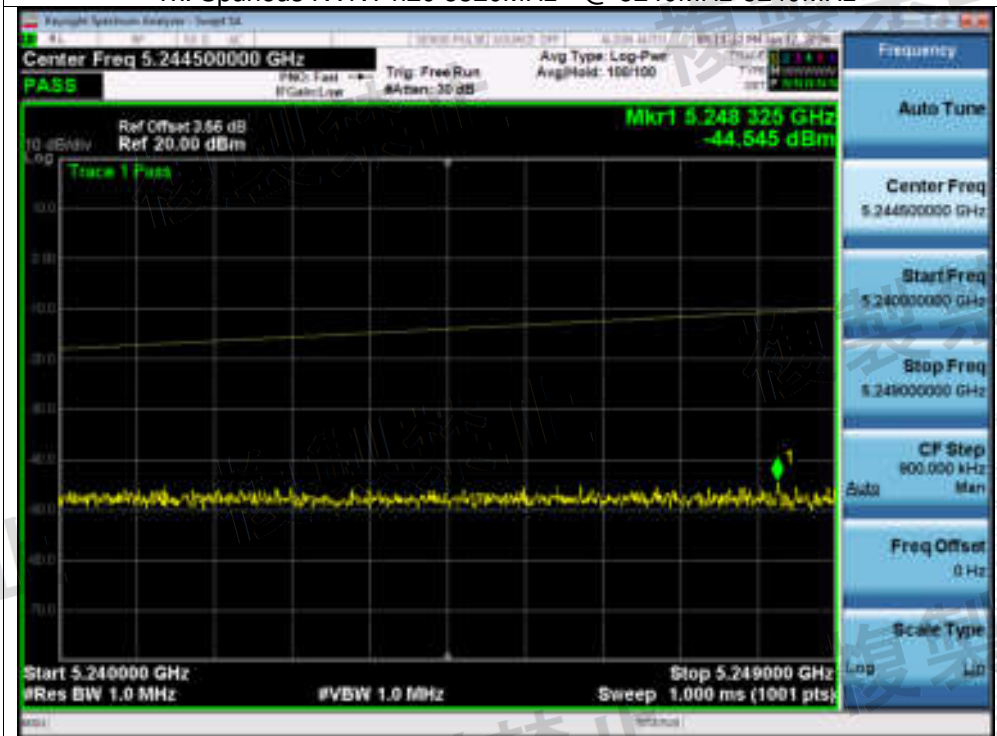
Tx. Spurious NVNT n20 5320MHz @ 30MHz-5233.3MHz



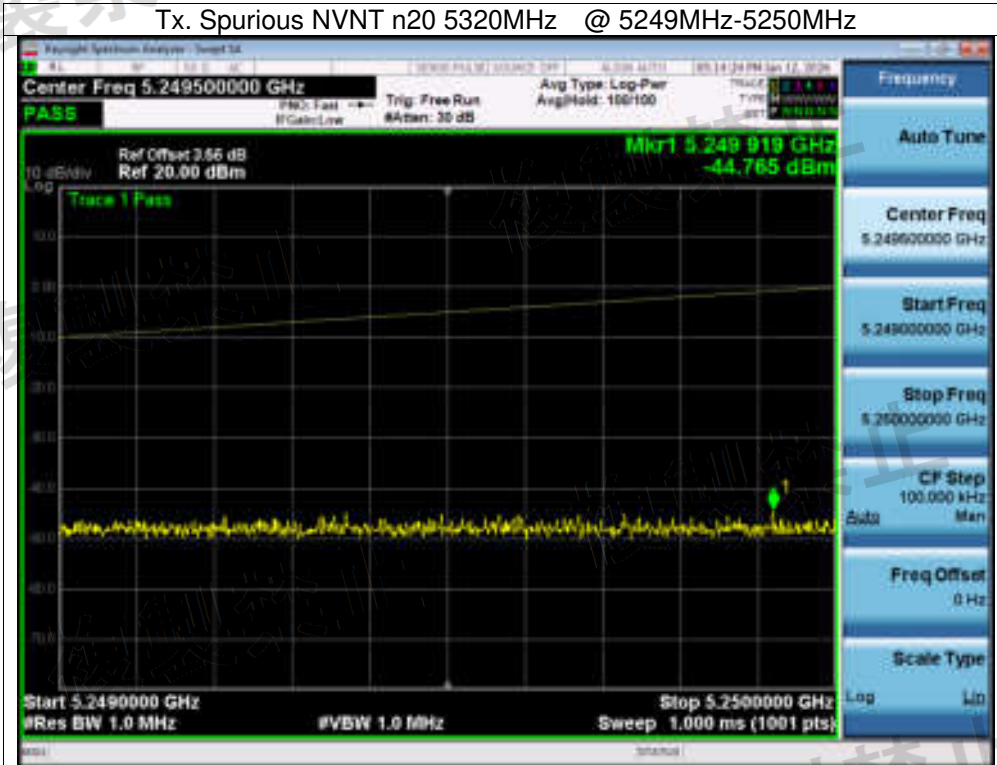
Tx. Spurious NVNT n20 5320MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT n20 5320MHz @ 5240MHz-5249MHz



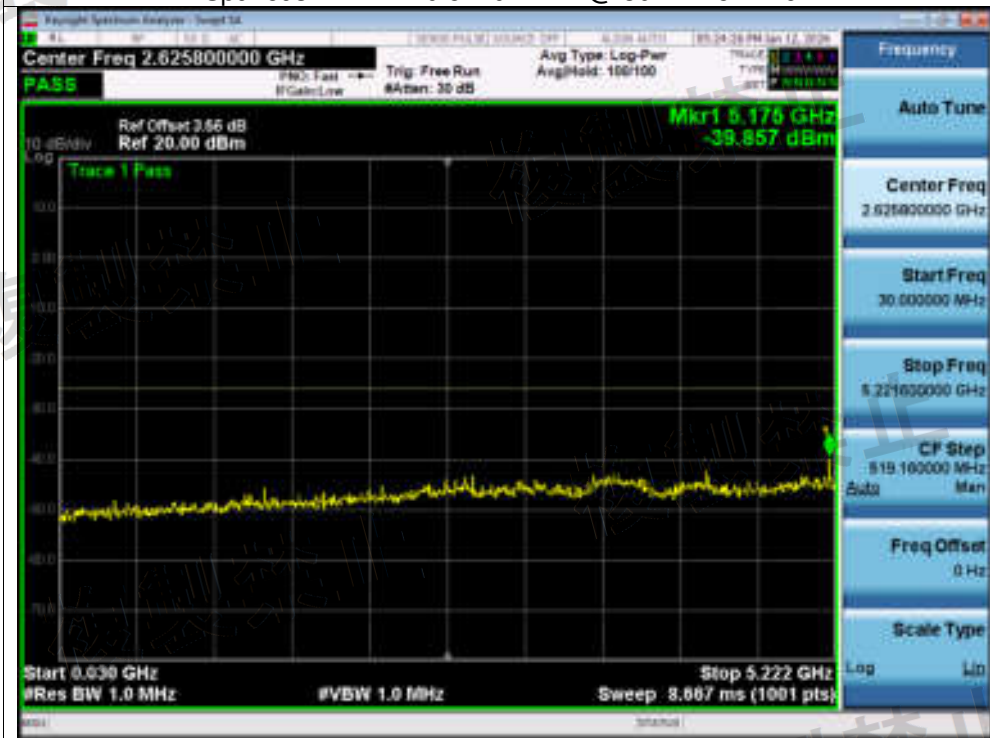
Tx. Spurious NVNT n20 5320MHz @ 5249MHz-5250MHz



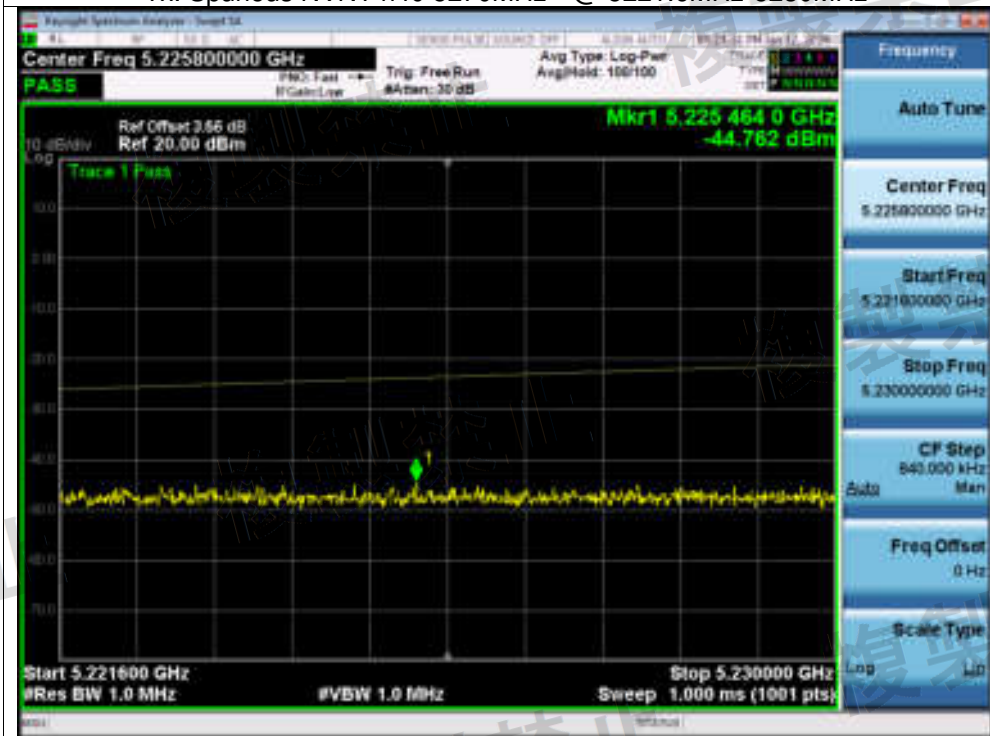
Tx. Spurious NVNT n20 5320MHz @ 5350MHz-26000MHz



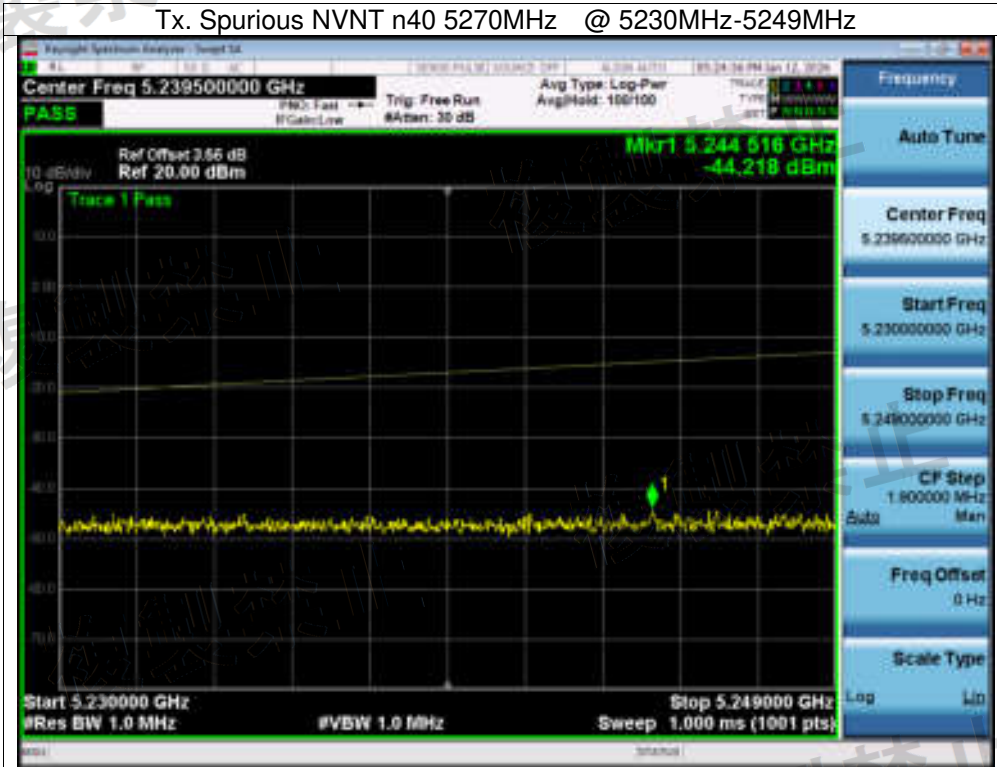
Tx. Spurious NVNT n40 5270MHz @ 30MHz-5221.6MHz



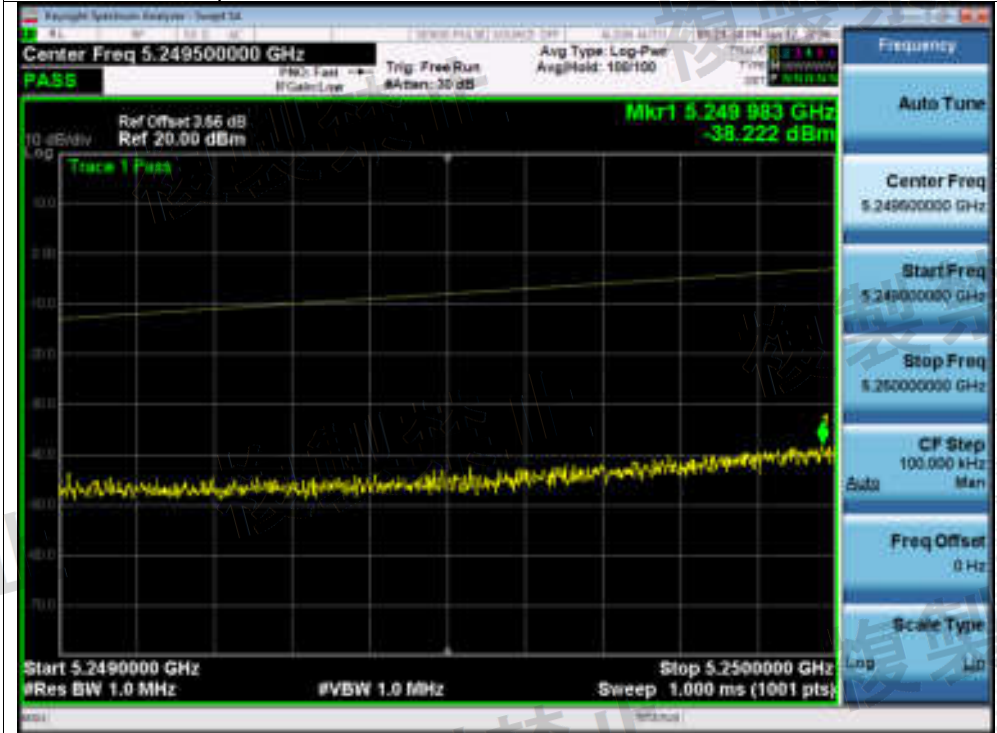
Tx. Spurious NVNT n40 5270MHz @ 5221.6MHz-5230MHz



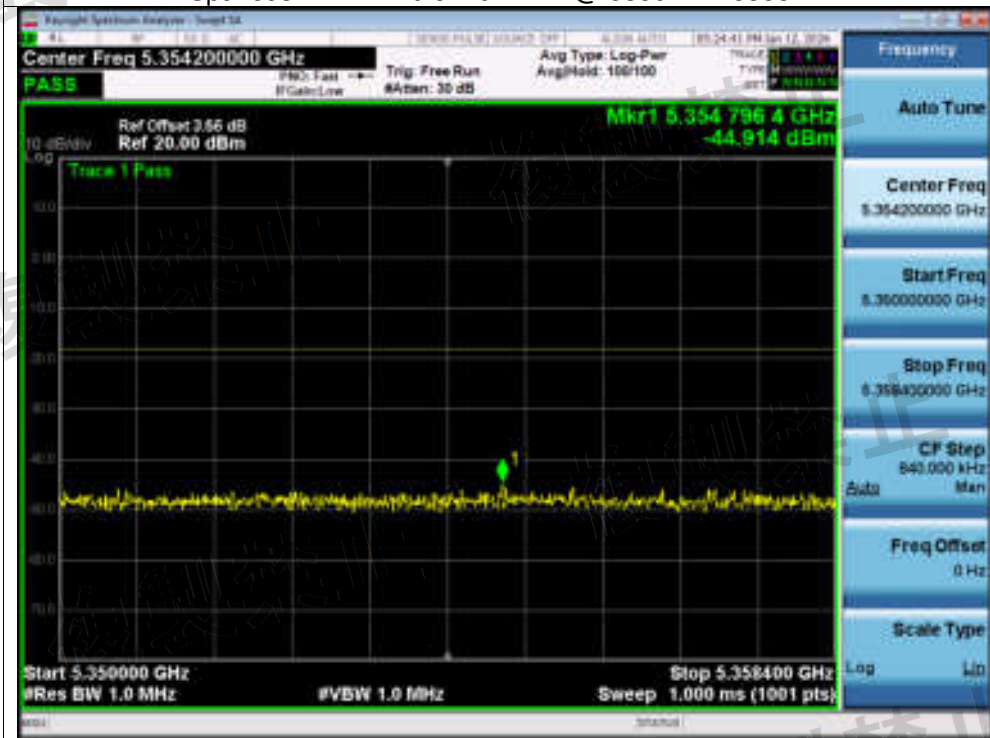
Tx. Spurious NVNT n40 5270MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT n40 5270MHz @ 5249MHz-5250MHz



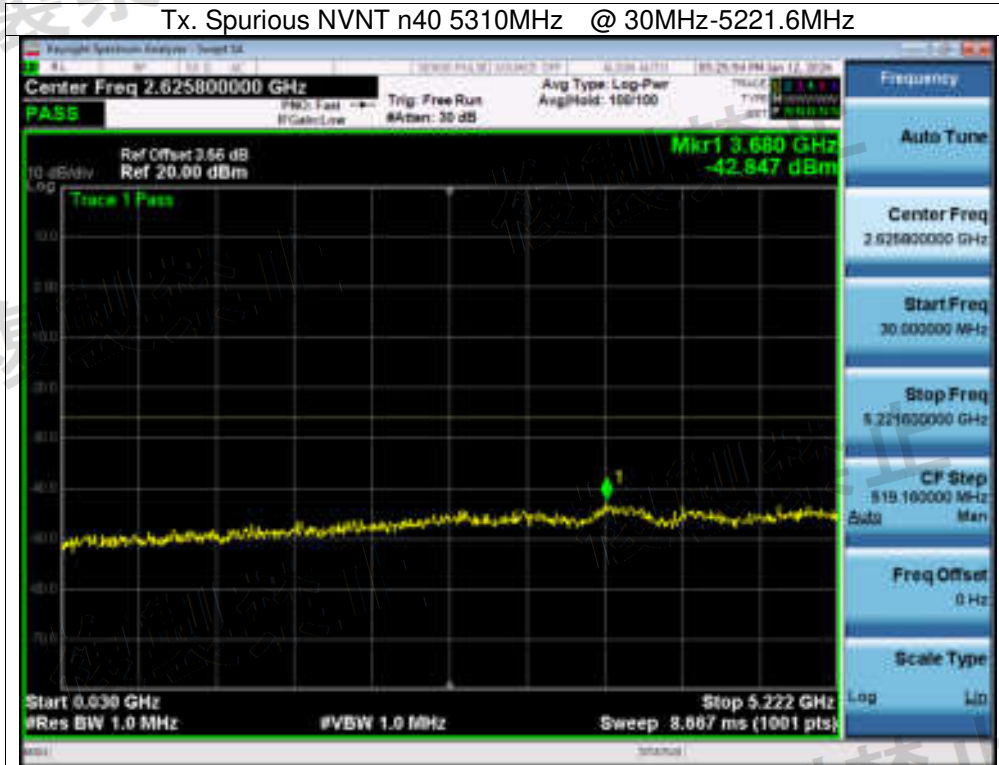
Tx. Spurious NVNT n40 5270MHz @ 5350MHz-5358.4MHz



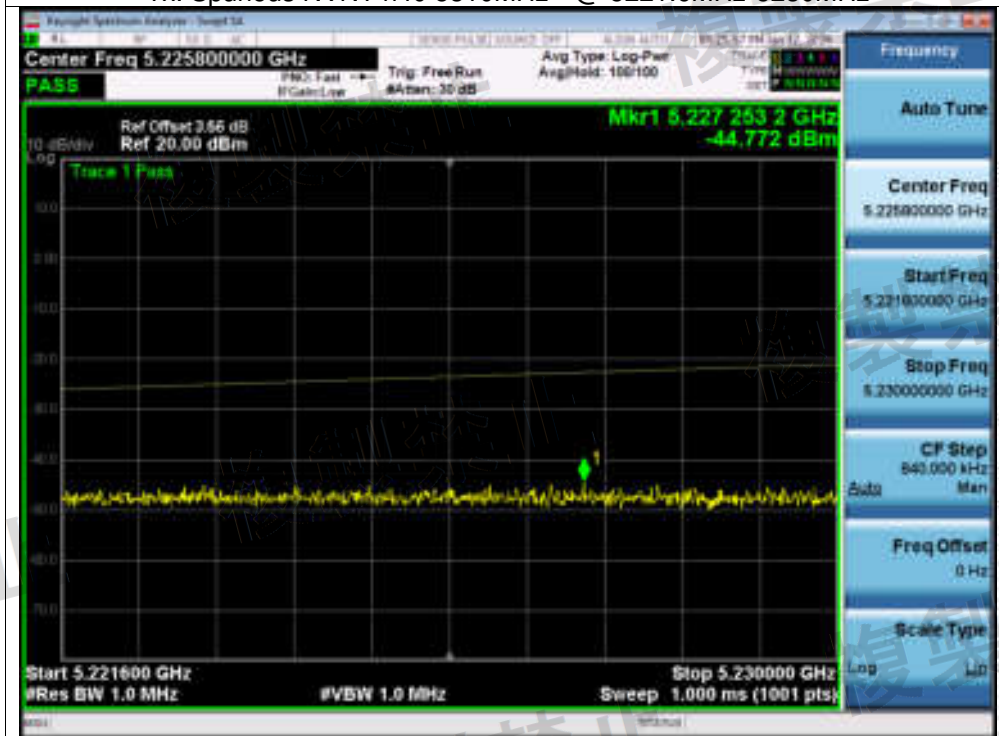
Tx. Spurious NVNT n40 5270MHz @ 5358.4MHz-26000MHz



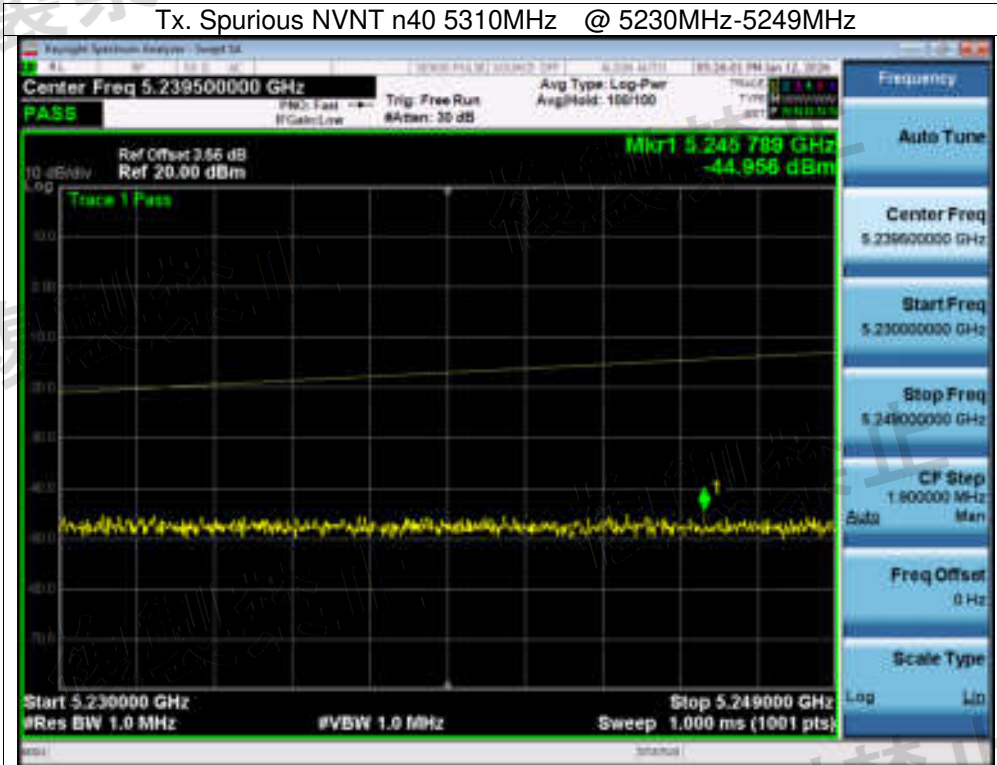
Tx. Spurious NVNT n40 5310MHz @ 30MHz-5221.6MHz



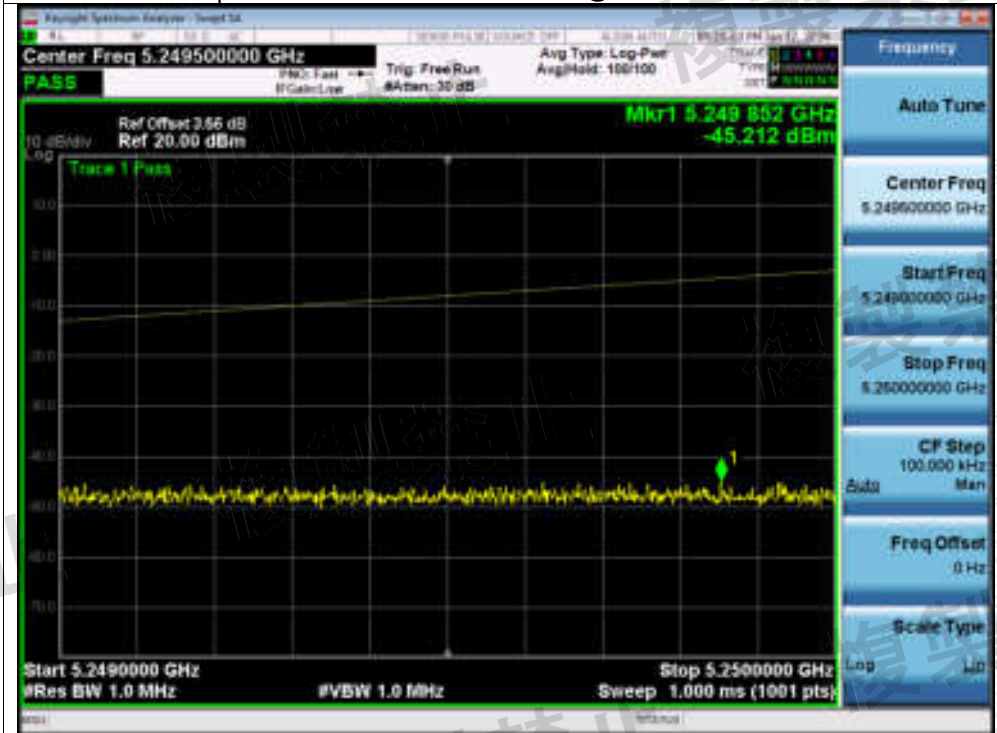
Tx. Spurious NVNT n40 5310MHz @ 5221.6MHz-5230MHz



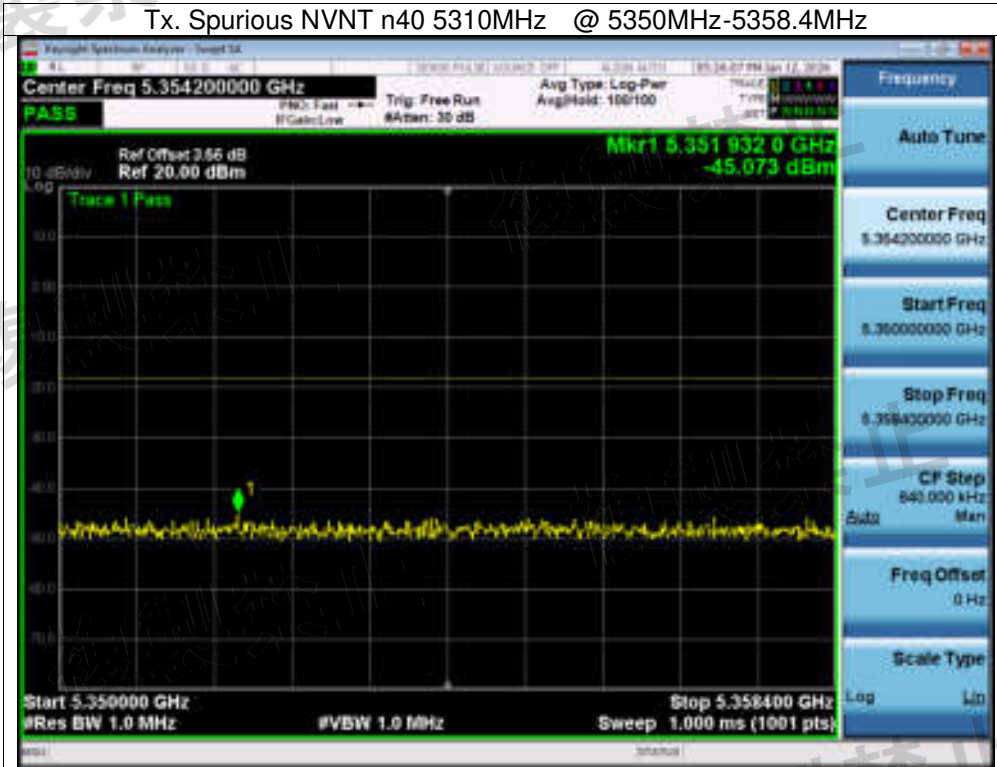
Tx. Spurious NVNT n40 5310MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT n40 5310MHz @ 5249MHz-5250MHz



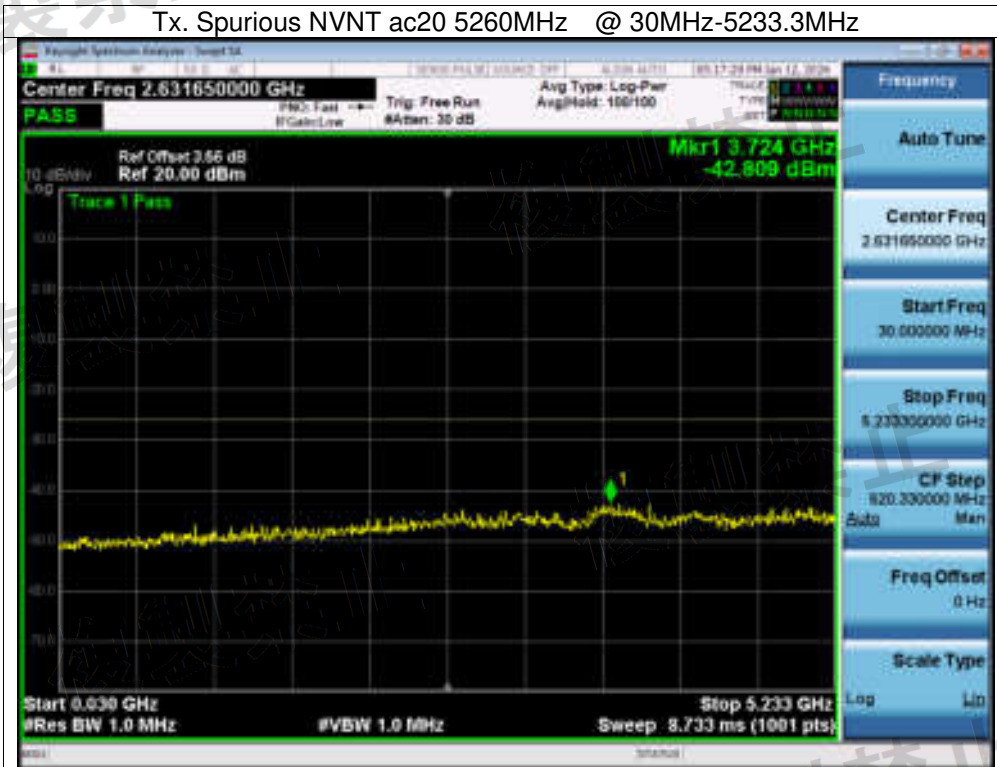
Tx. Spurious NVNT n40 5310MHz @ 5350MHz-5358.4MHz



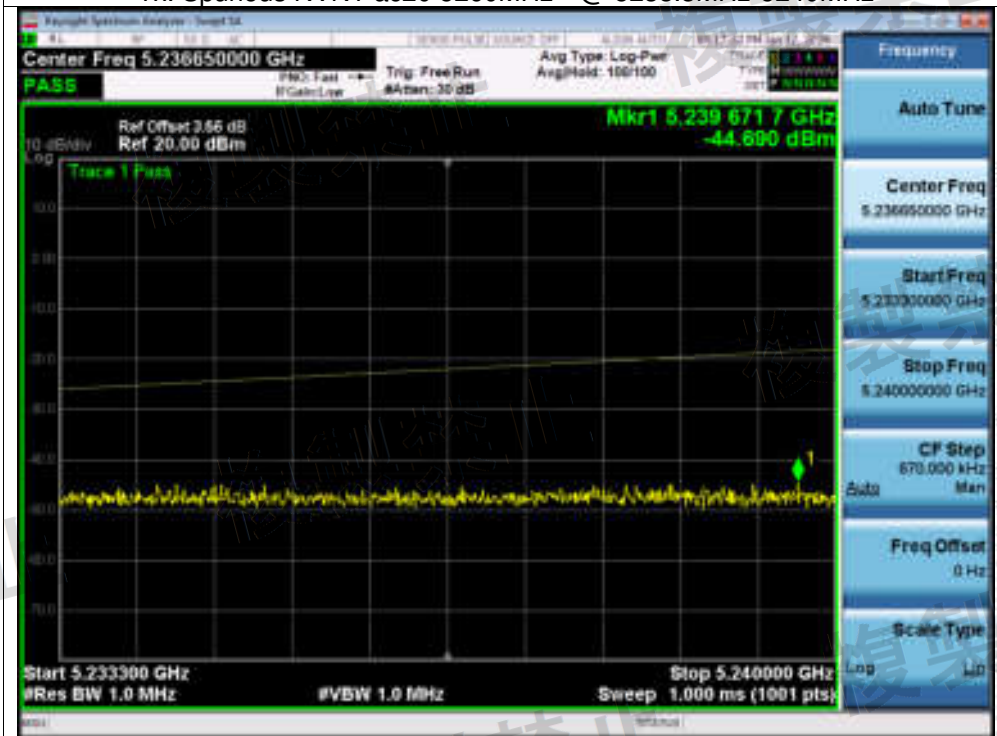
Tx. Spurious NVNT n40 5310MHz @ 5358.4MHz-26000MHz



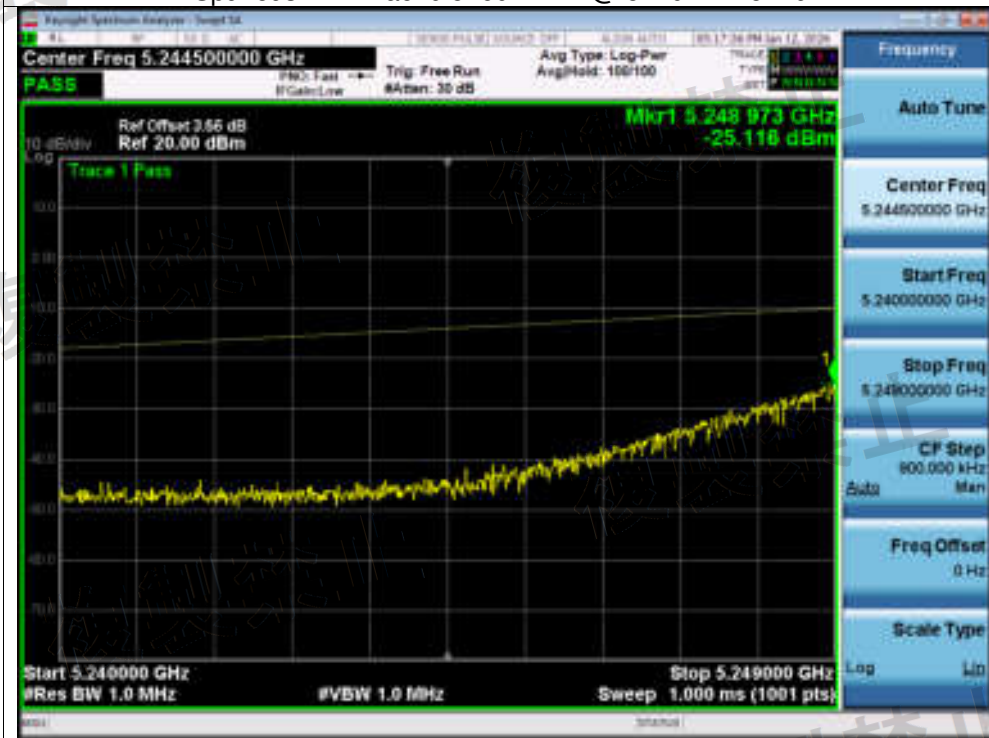
Tx. Spurious NVNT ac20 5260MHz @ 30MHz-5233.3MHz



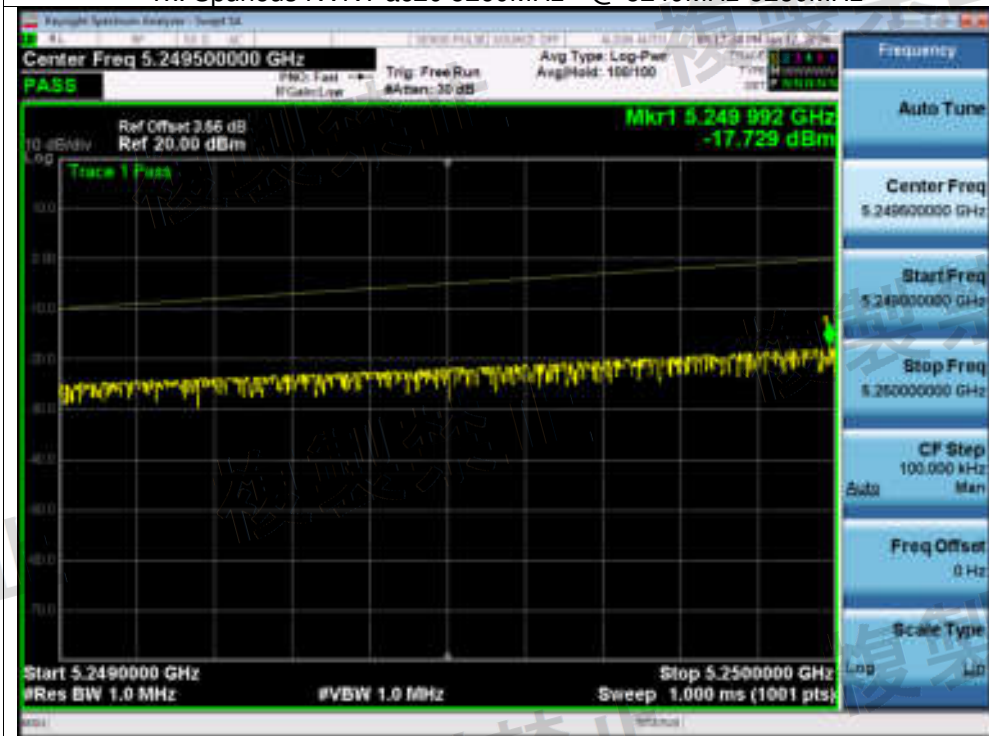
Tx. Spurious NVNT ac20 5260MHz @ 5233.3MHz-5240MHz



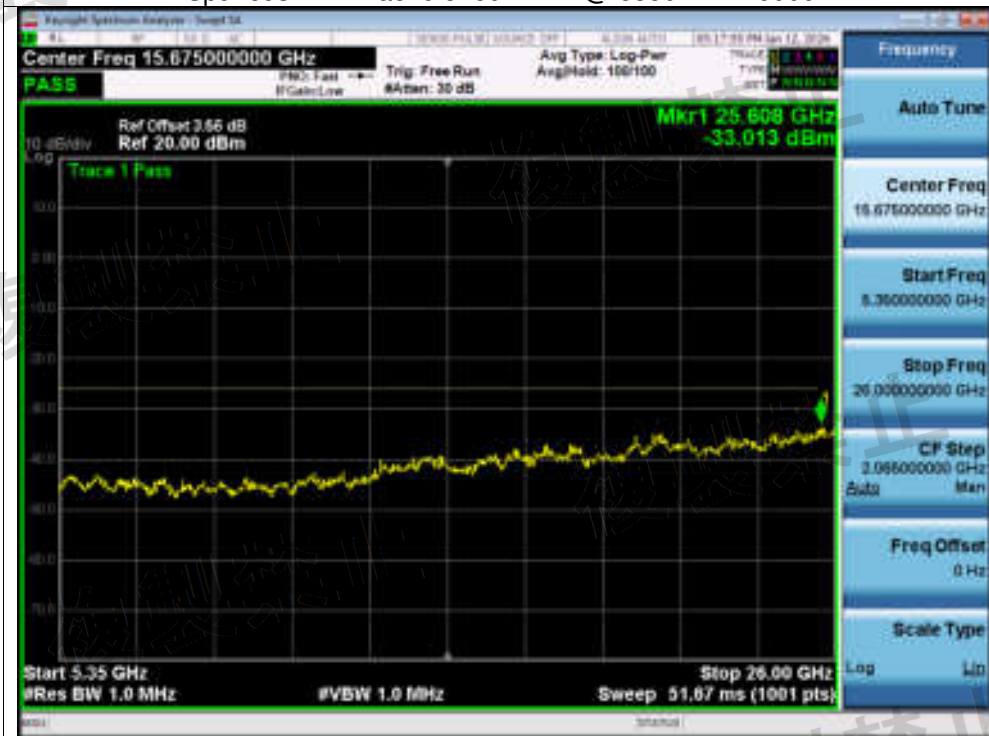
Tx. Spurious NVNT ac20 5260MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT ac20 5260MHz @ 5249MHz-5250MHz



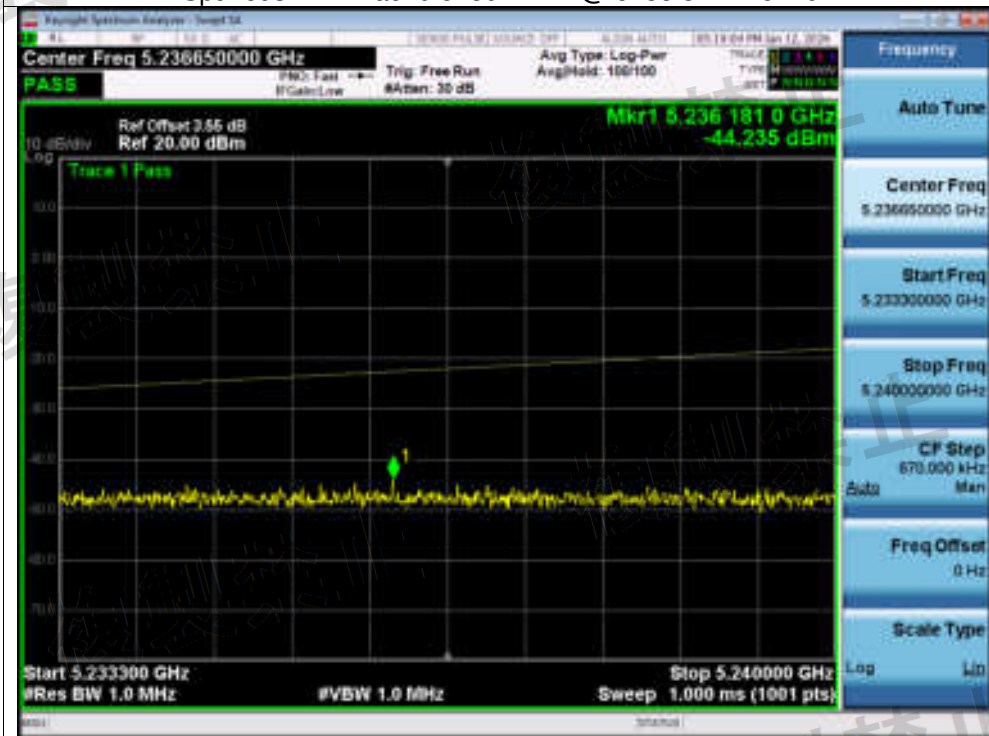
Tx. Spurious NVNT ac20 5260MHz @ 5350MHz-26000MHz



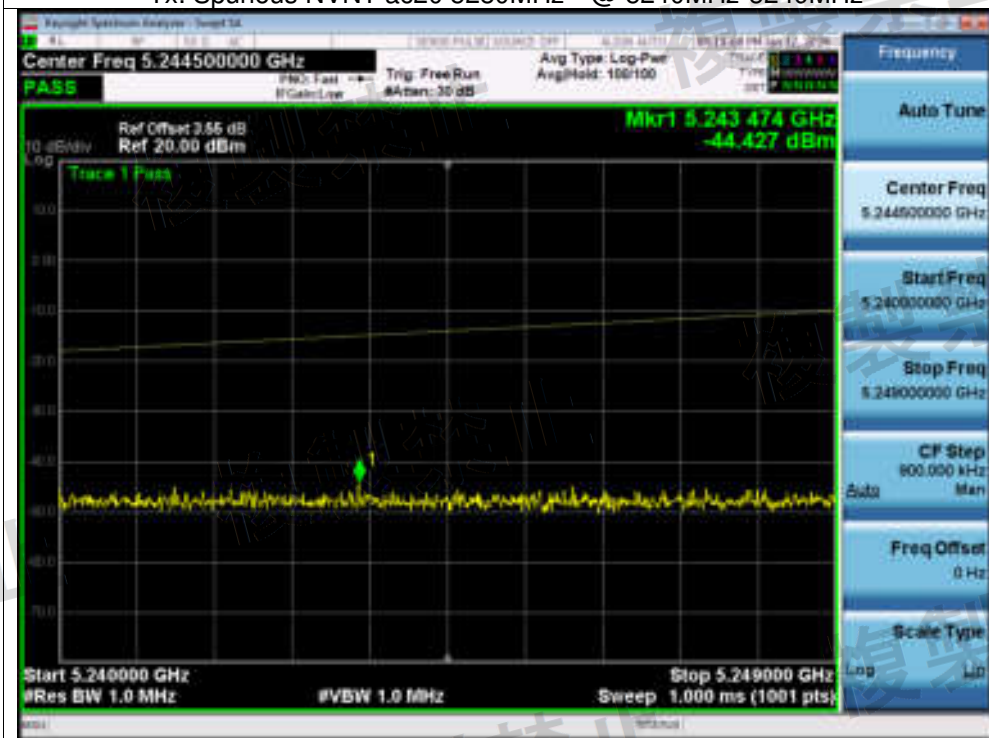
Tx. Spurious NVNT ac20 5280MHz @ 30MHz-5233.3MHz



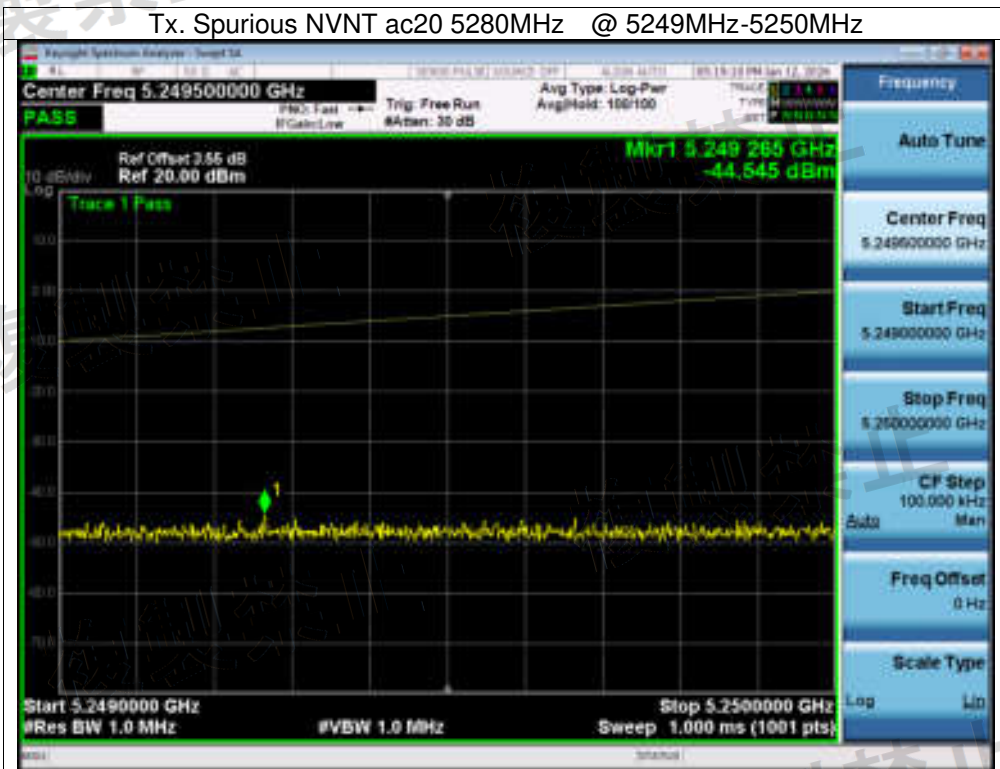
Tx. Spurious NVNT ac20 5280MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT ac20 5280MHz @ 5240MHz-5249MHz



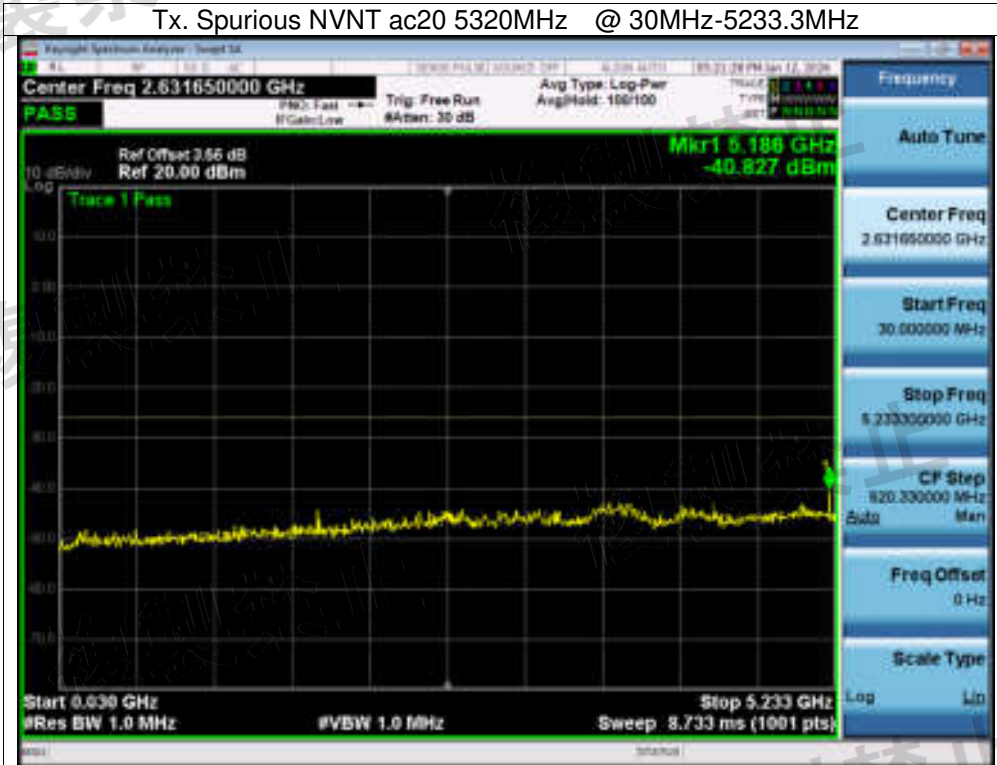
Tx. Spurious NVNT ac20 5280MHz @ 5249MHz-5250MHz



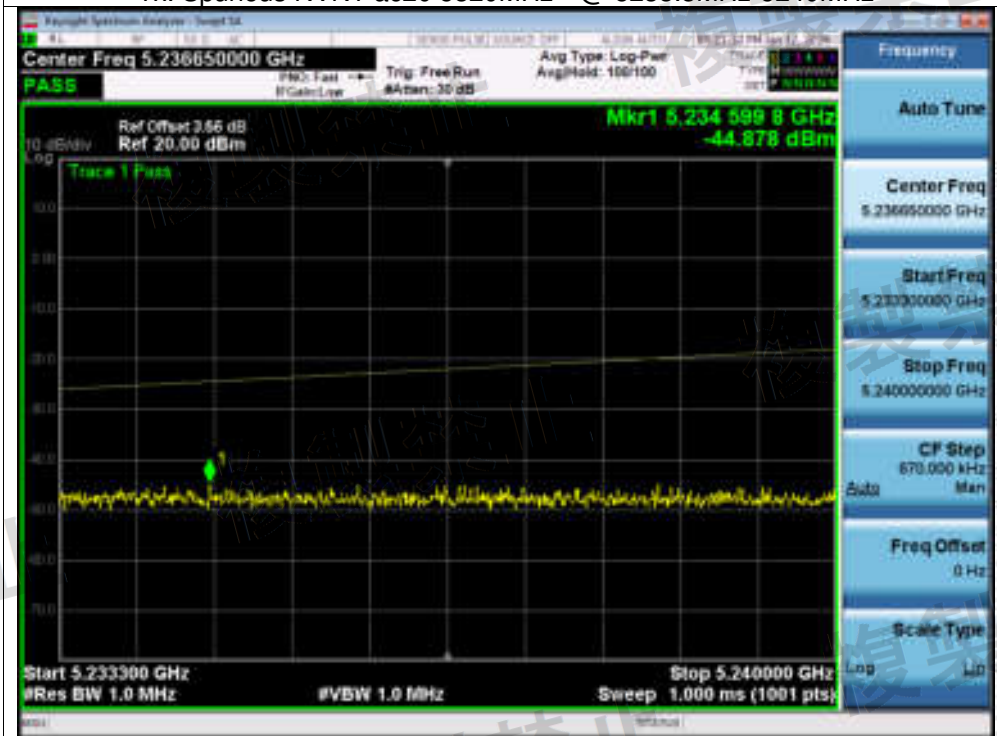
Tx. Spurious NVNT ac20 5280MHz @ 5350MHz-26000MHz



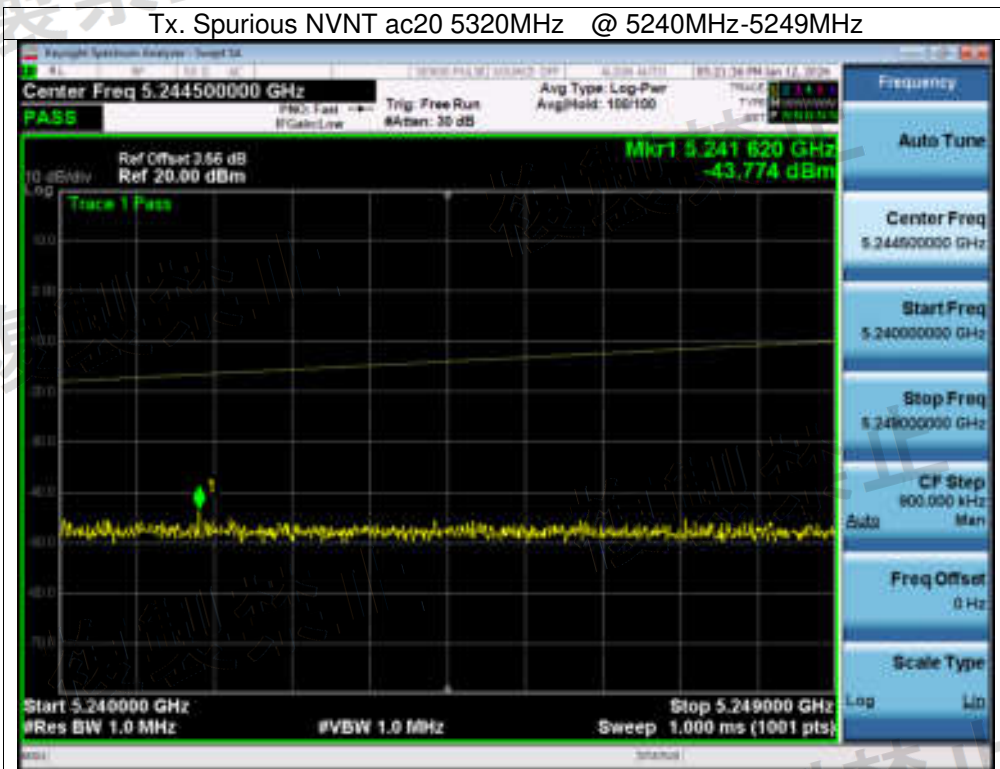
Tx. Spurious NVNT ac20 5320MHz @ 30MHz-5233.3MHz



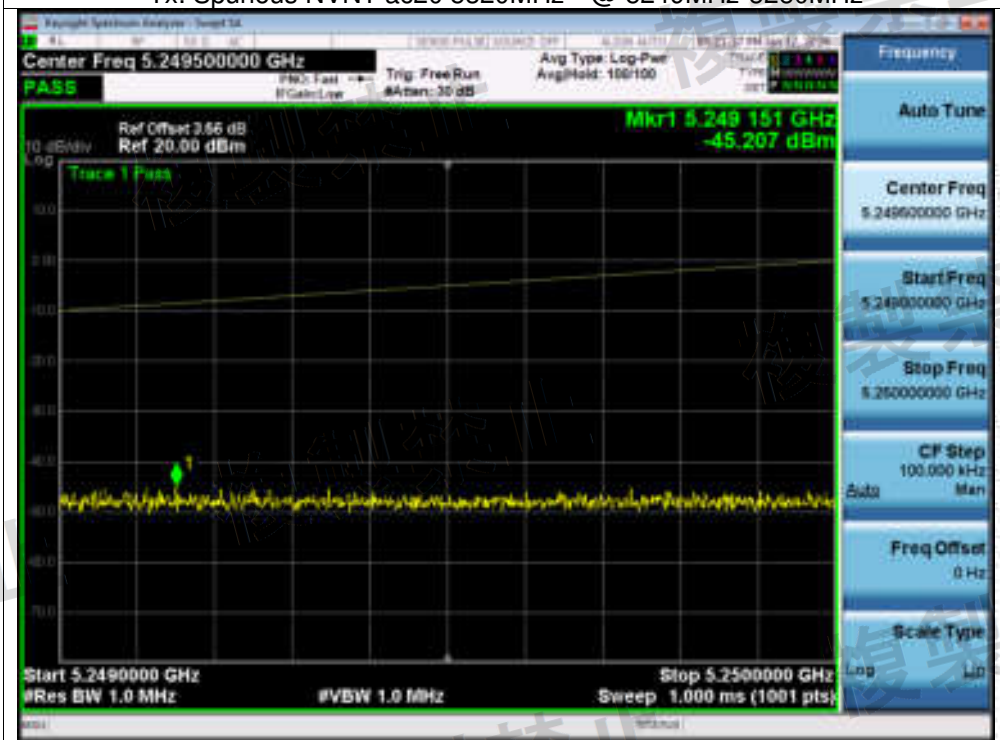
Tx. Spurious NVNT ac20 5320MHz @ 5233.3MHz-5240MHz



Tx. Spurious NVNT ac20 5320MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT ac20 5320MHz @ 5249MHz-5250MHz



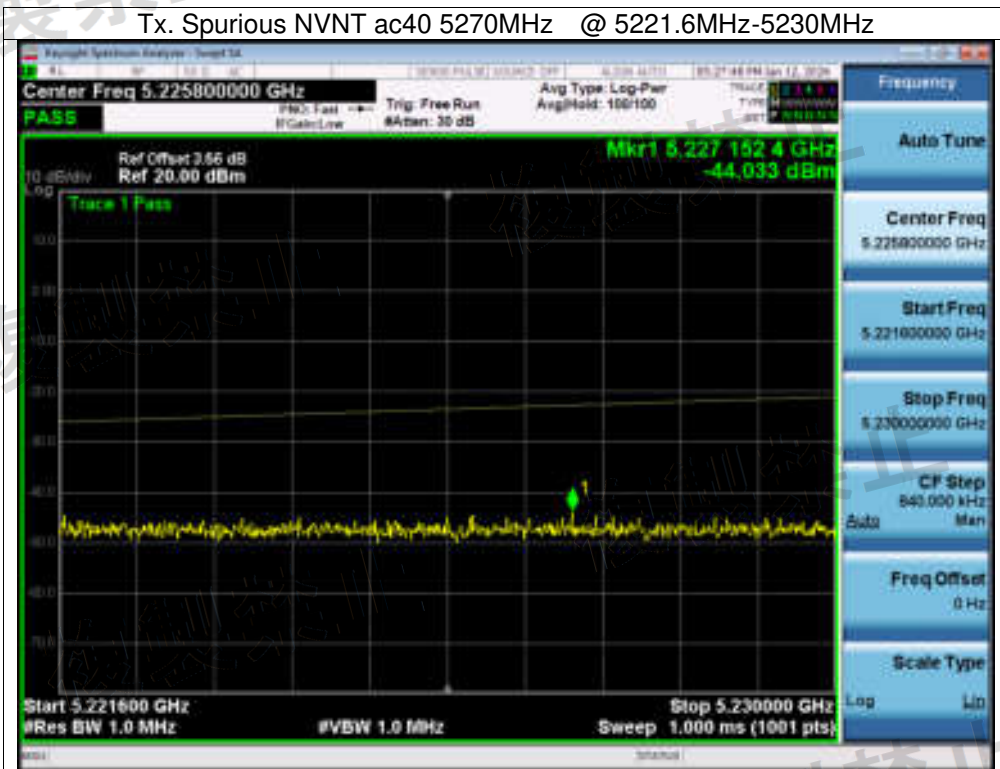
Tx. Spurious NVNT ac20 5320MHz @ 5350MHz-26000MHz



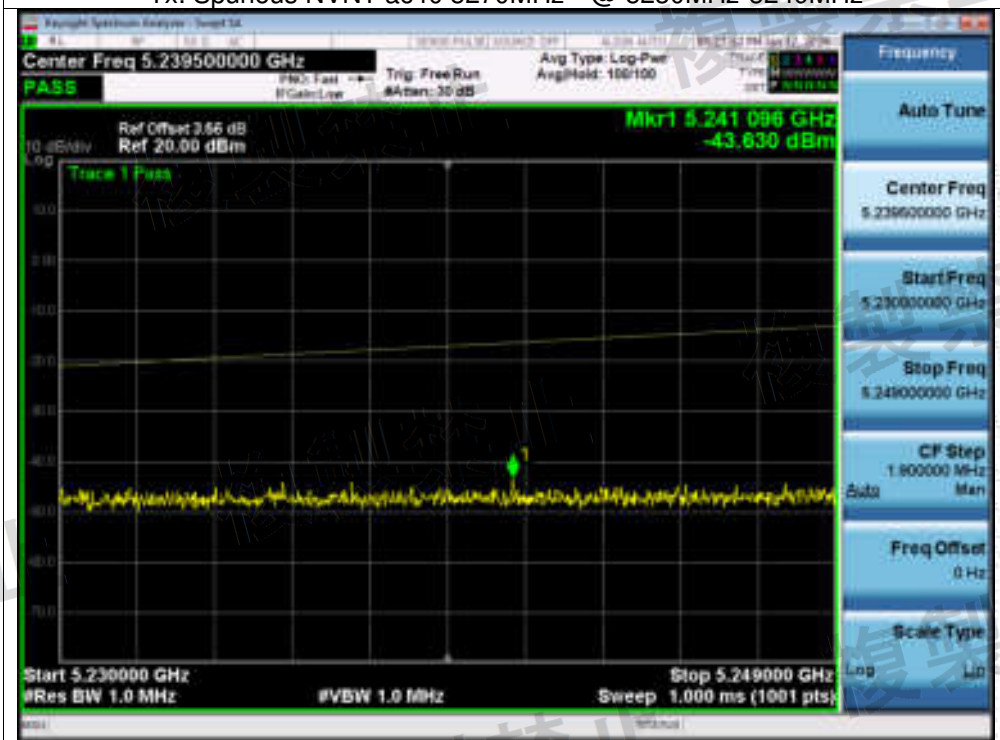
Tx. Spurious NVNT ac40 5270MHz @ 30MHz-5221.6MHz



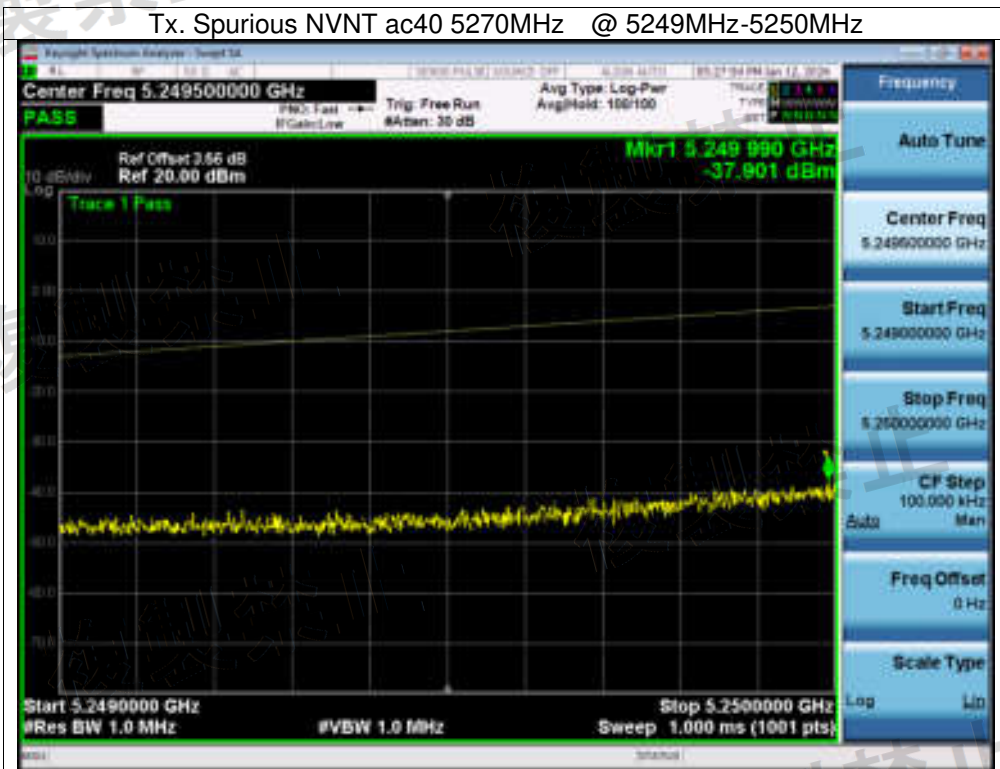
Tx. Spurious NVNT ac40 5270MHz @ 5221.6MHz-5230MHz



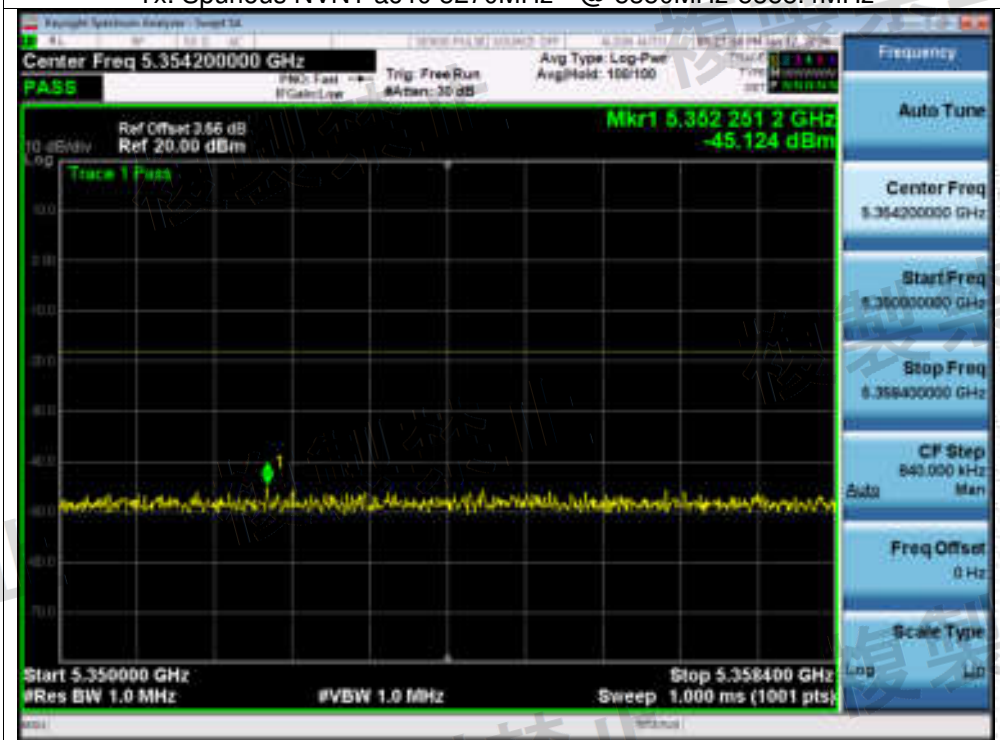
Tx. Spurious NVNT ac40 5270MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT ac40 5270MHz @ 5249MHz-5250MHz



Tx. Spurious NVNT ac40 5270MHz @ 5350MHz-5358.4MHz



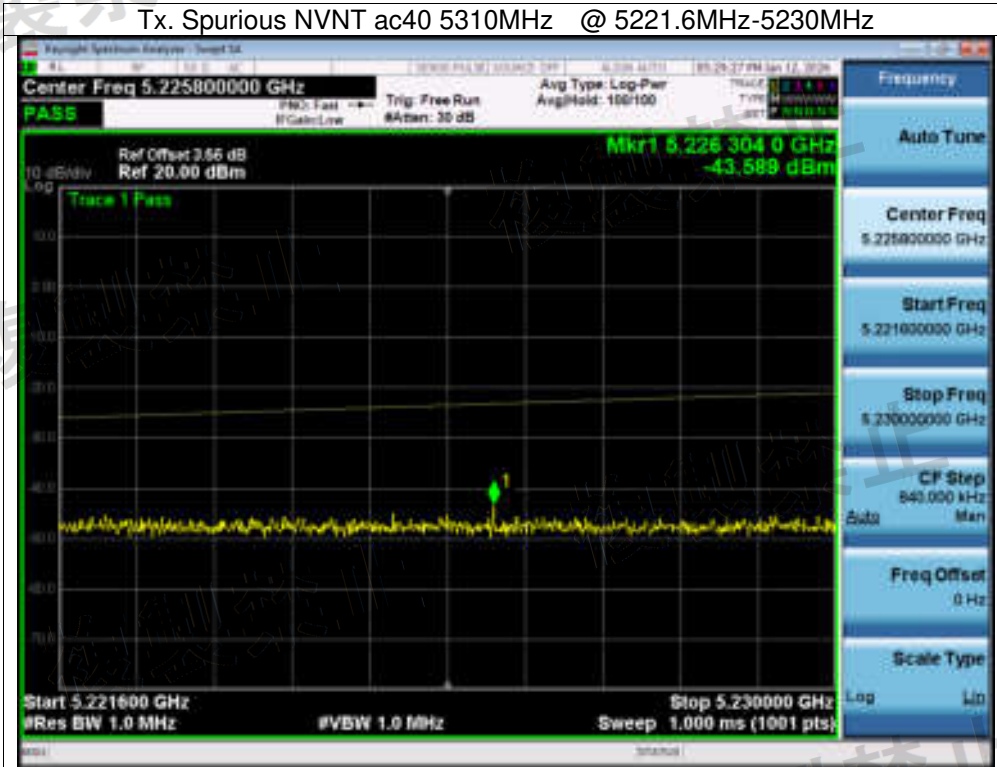
Tx. Spurious NVNT ac40 5270MHz @ 5358.4MHz-26000MHz



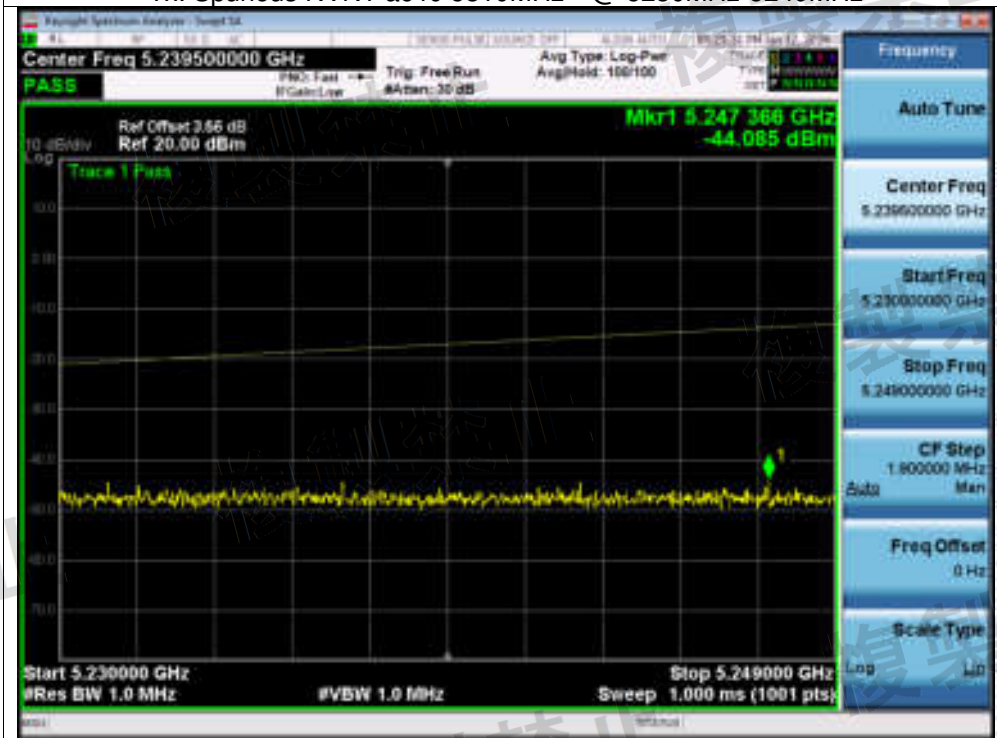
Tx. Spurious NVNT ac40 5310MHz @ 30MHz-5221.6MHz



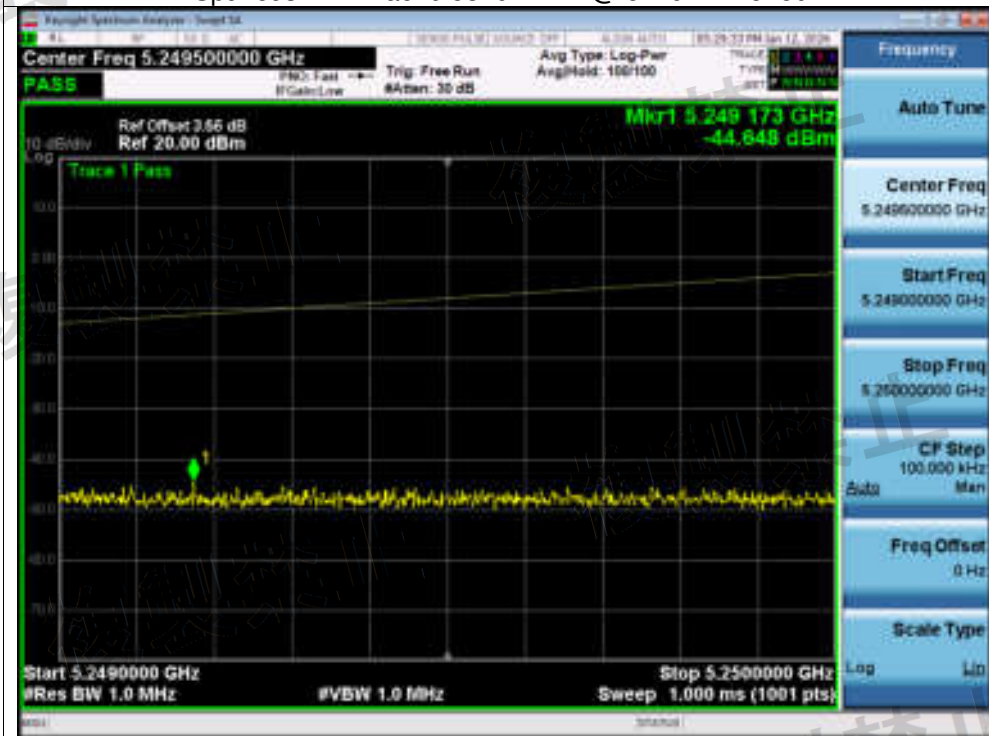
Tx. Spurious NVNT ac40 5310MHz @ 5221.6MHz-5230MHz



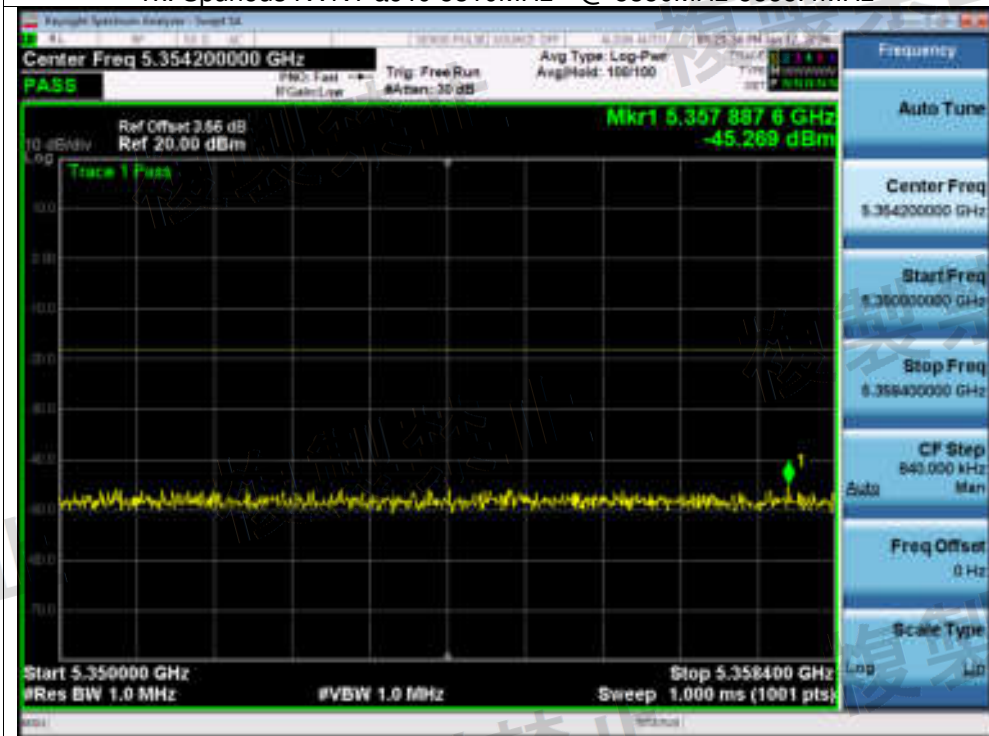
Tx. Spurious NVNT ac40 5310MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT ac40 5310MHz @ 5249MHz-5250MHz



Tx. Spurious NVNT ac40 5310MHz @ 5350MHz-5358.4MHz



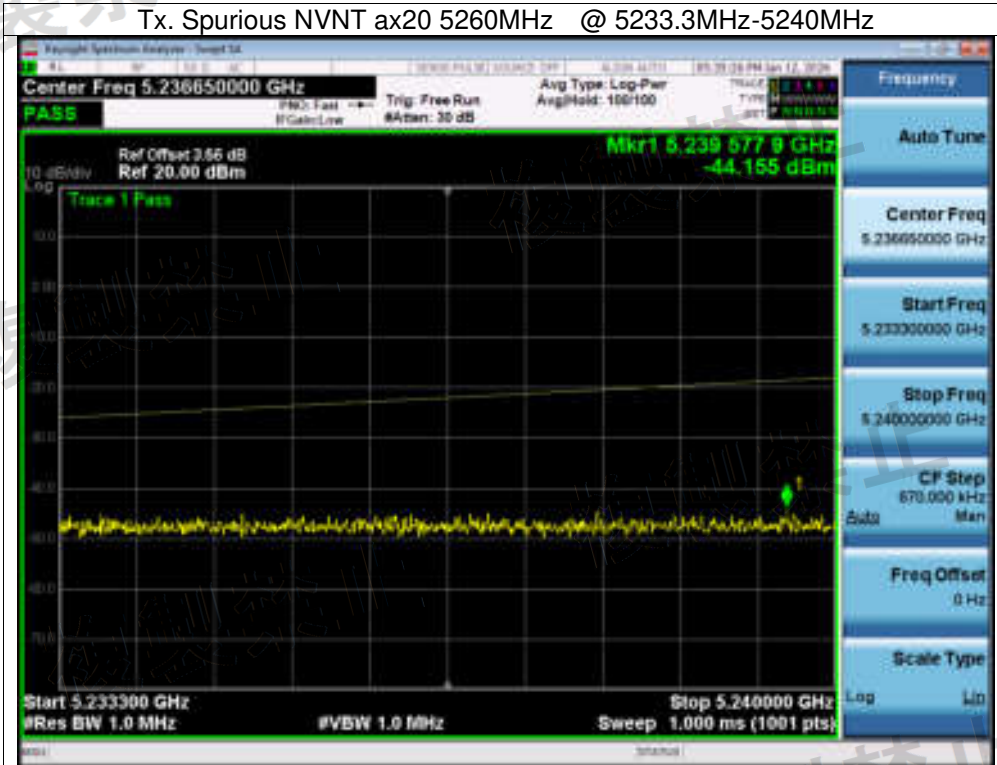
Tx. Spurious NVNT ac40 5310MHz @ 5358.4MHz-26000MHz



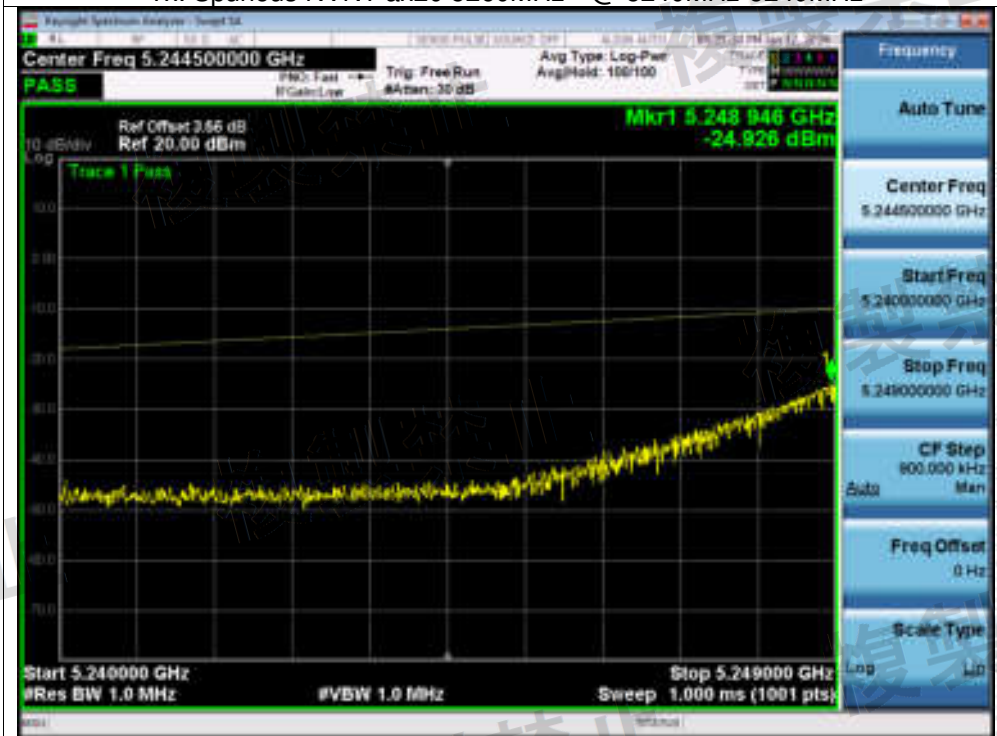
Tx. Spurious NVNT ax20 5260MHz @ 30MHz-5233.3MHz



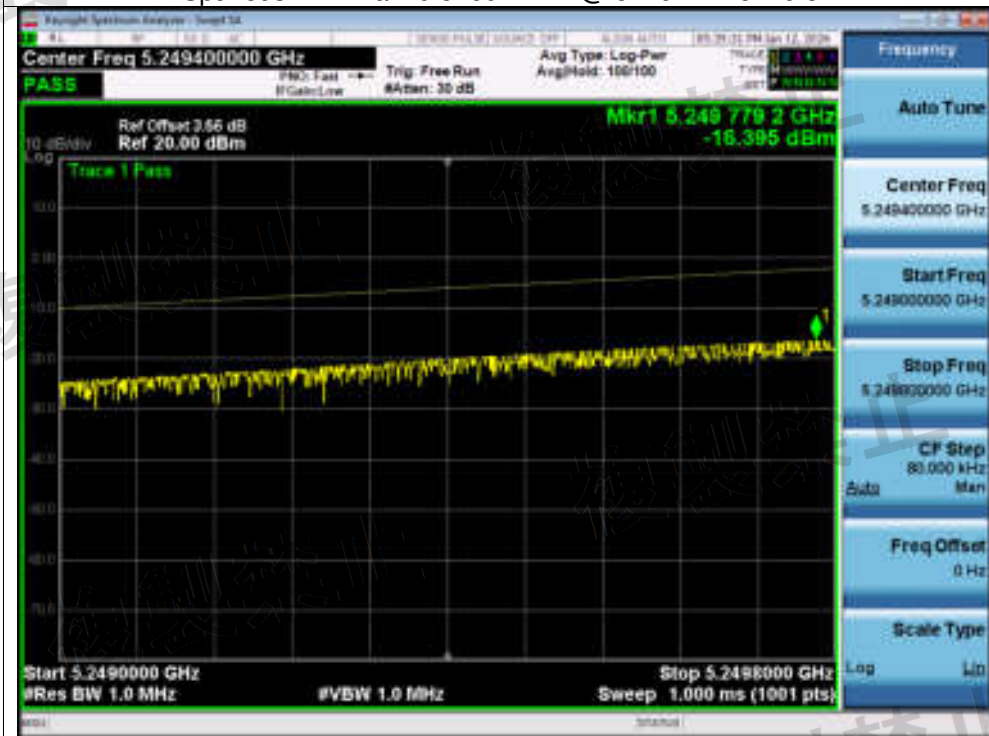
Tx. Spurious NVNT ax20 5260MHz @ 5233.3MHz-5240MHz



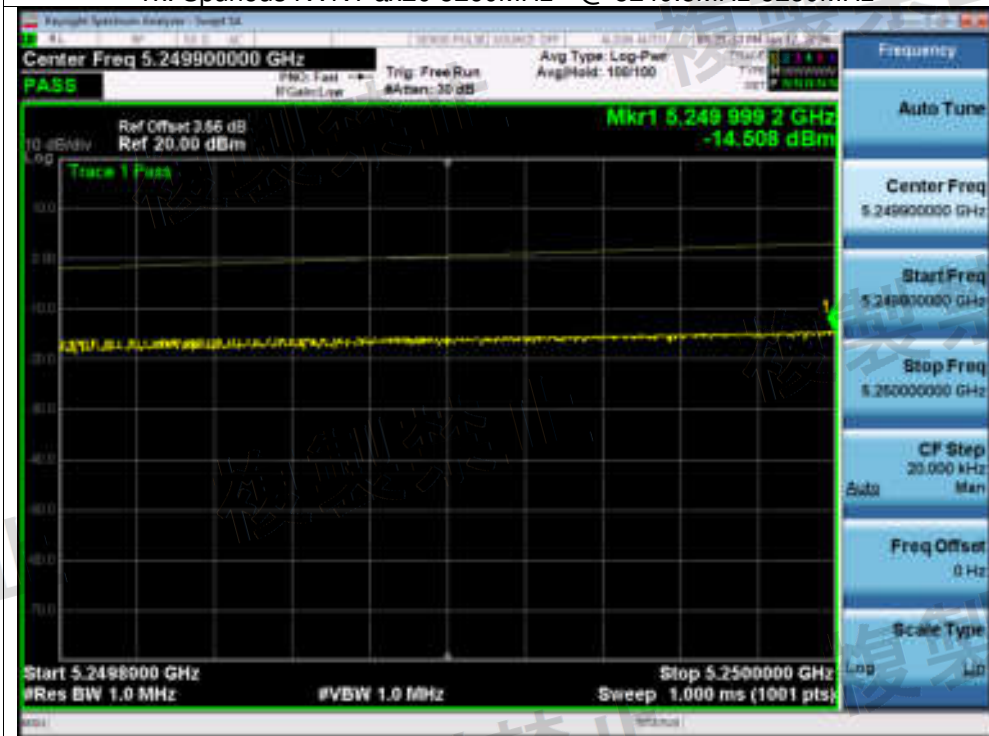
Tx. Spurious NVNT ax20 5260MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT ax20 5260MHz @ 5249MHz-5249.8MHz



Tx. Spurious NVNT ax20 5260MHz @ 5249.8MHz-5250MHz



Tx. Spurious NVNT ax20 5260MHz @ 5350MHz-26000MHz



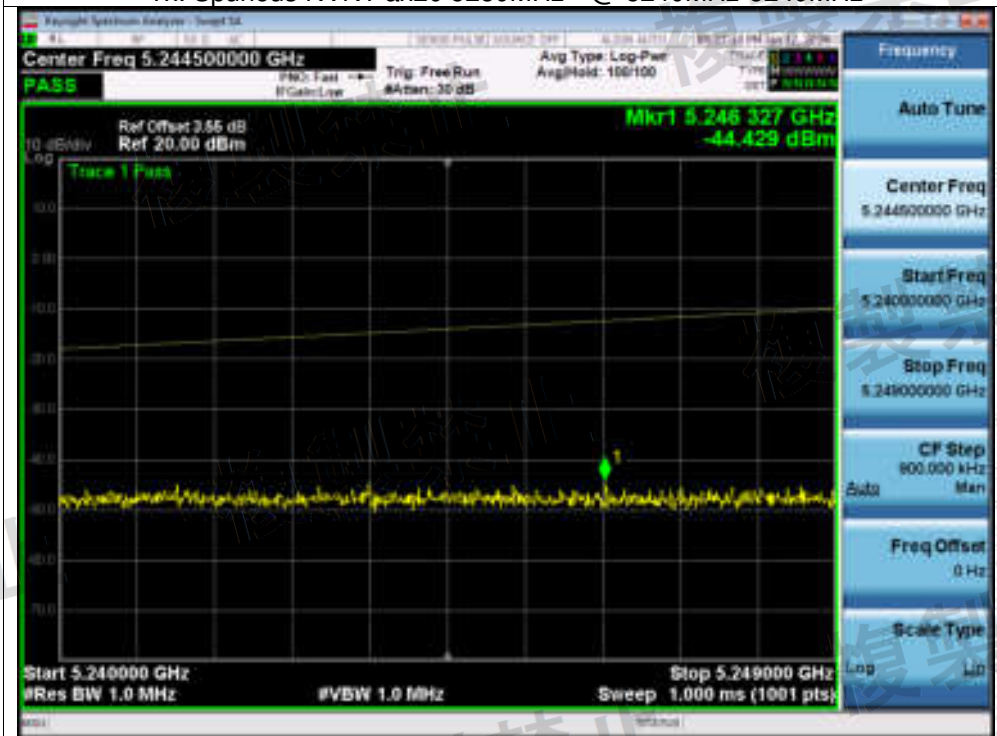
Tx. Spurious NVNT ax20 5280MHz @ 30MHz-5233.3MHz



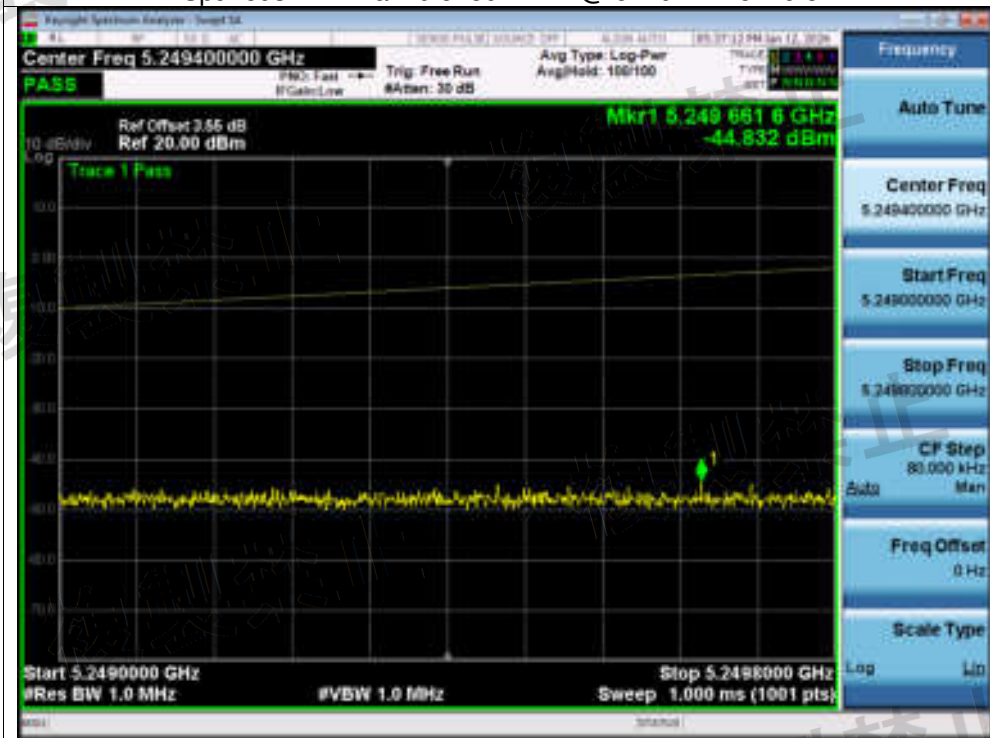
Tx. Spurious NVNT ax20 5280MHz @ 5233.3MHz-5240MHz



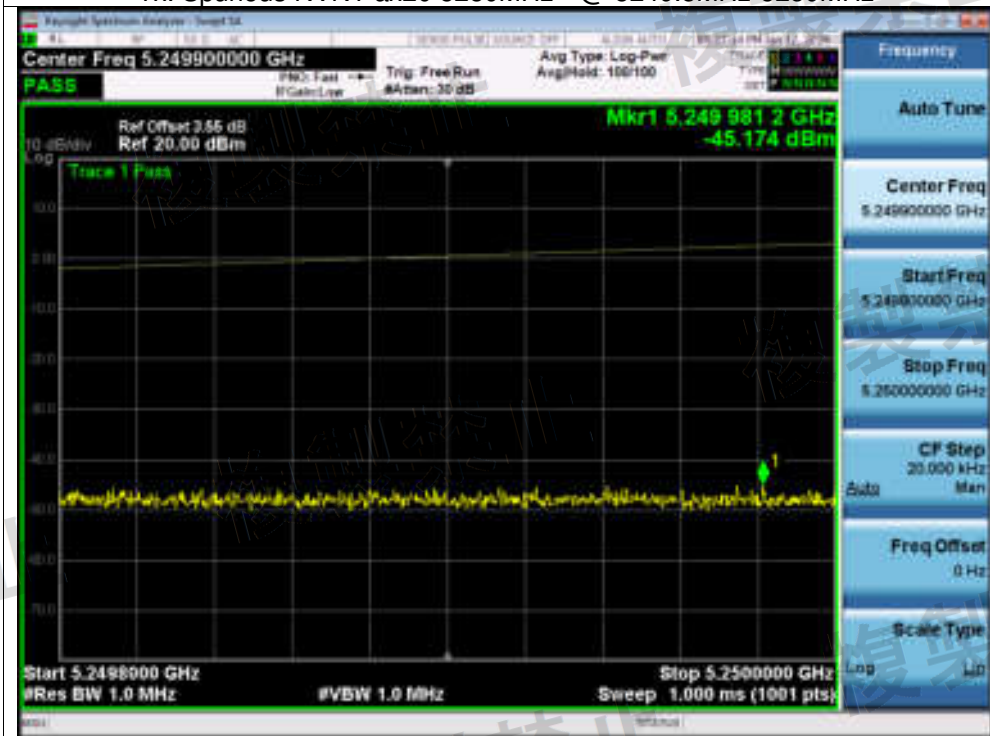
Tx. Spurious NVNT ax20 5280MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT ax20 5280MHz @ 5249MHz-5249.8MHz



Tx. Spurious NVNT ax20 5280MHz @ 5249.8MHz-5250MHz



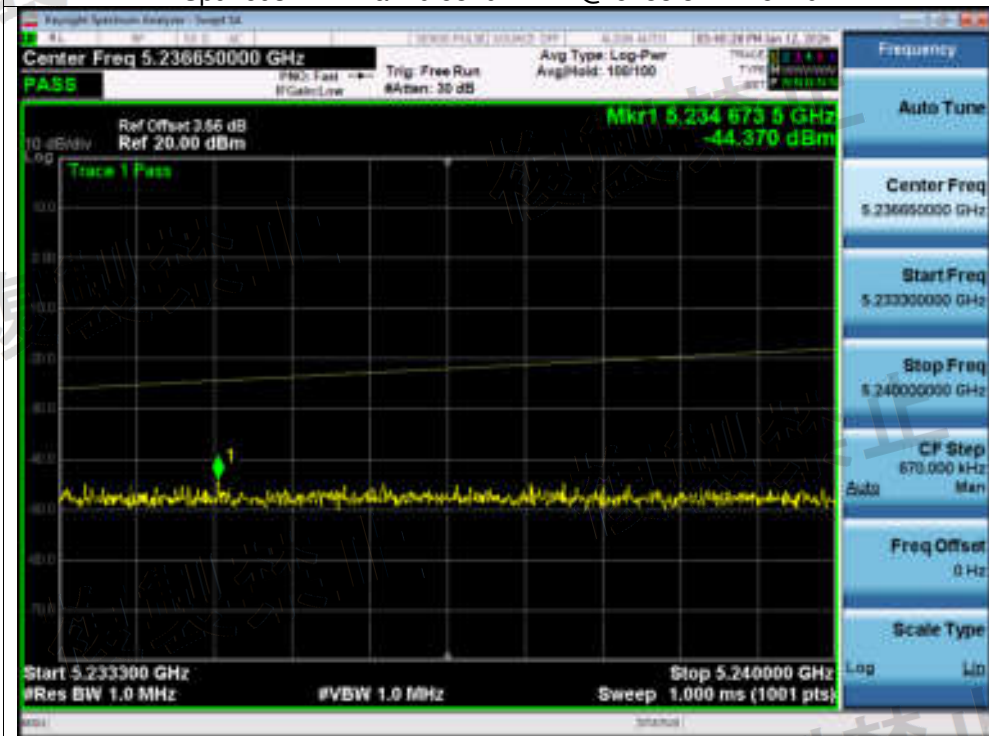
Tx. Spurious NVNT ax20 5280MHz @ 5350MHz-26000MHz



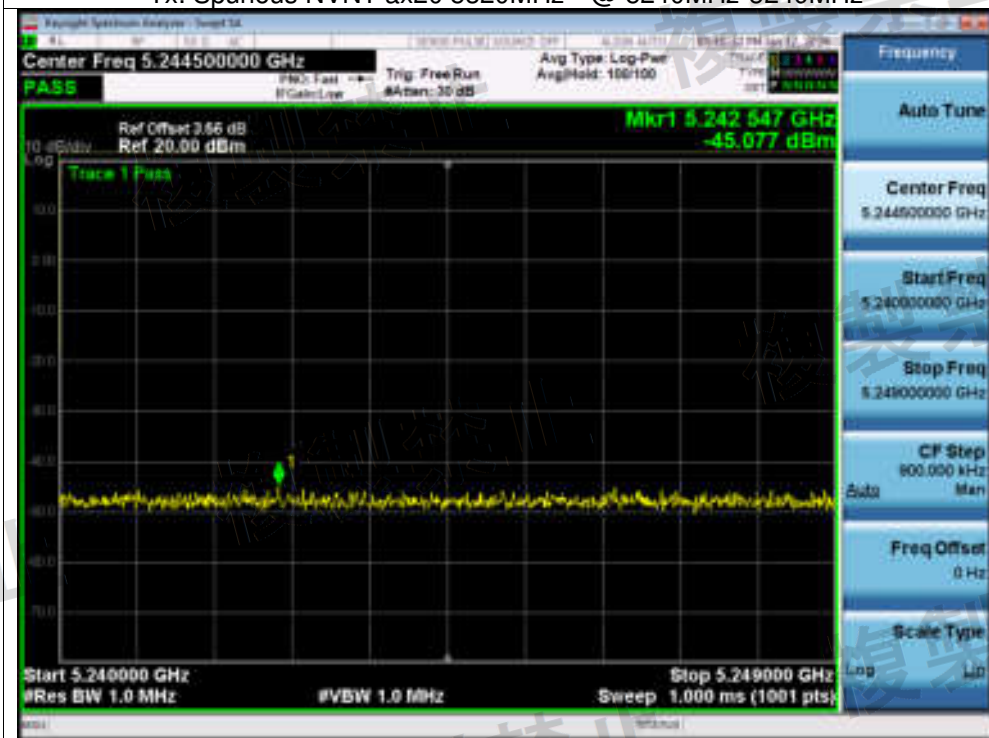
Tx. Spurious NVNT ax20 5320MHz @ 30MHz-5233.3MHz



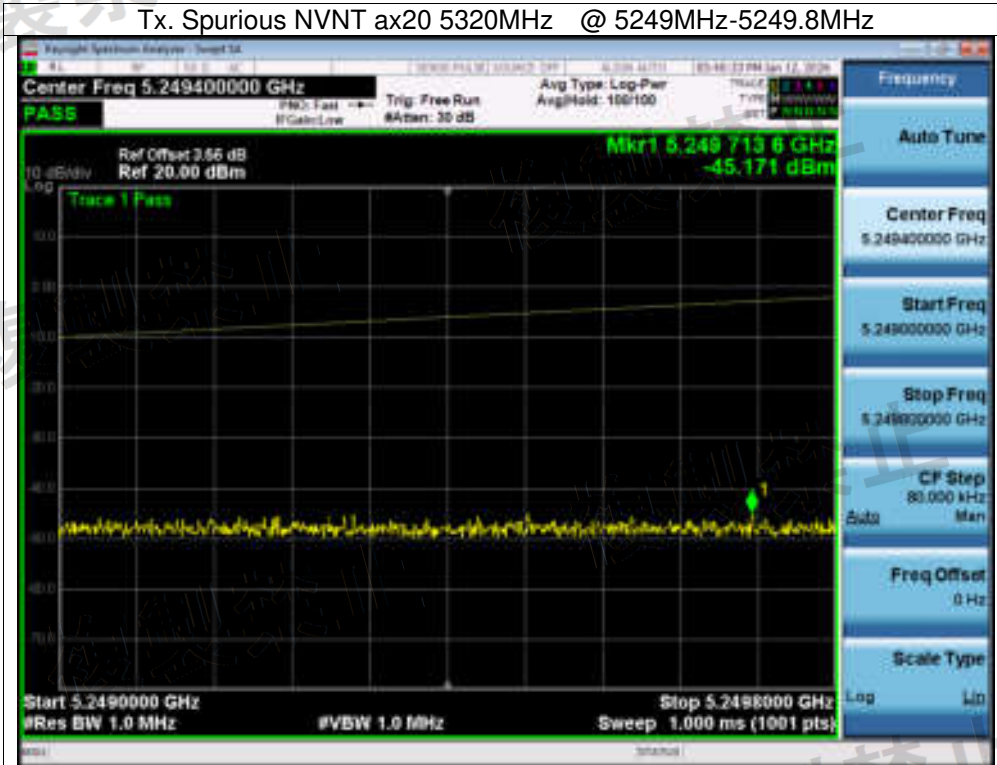
Tx. Spurious NVNT ax20 5320MHz @ 5233.3MHz-5240MHz



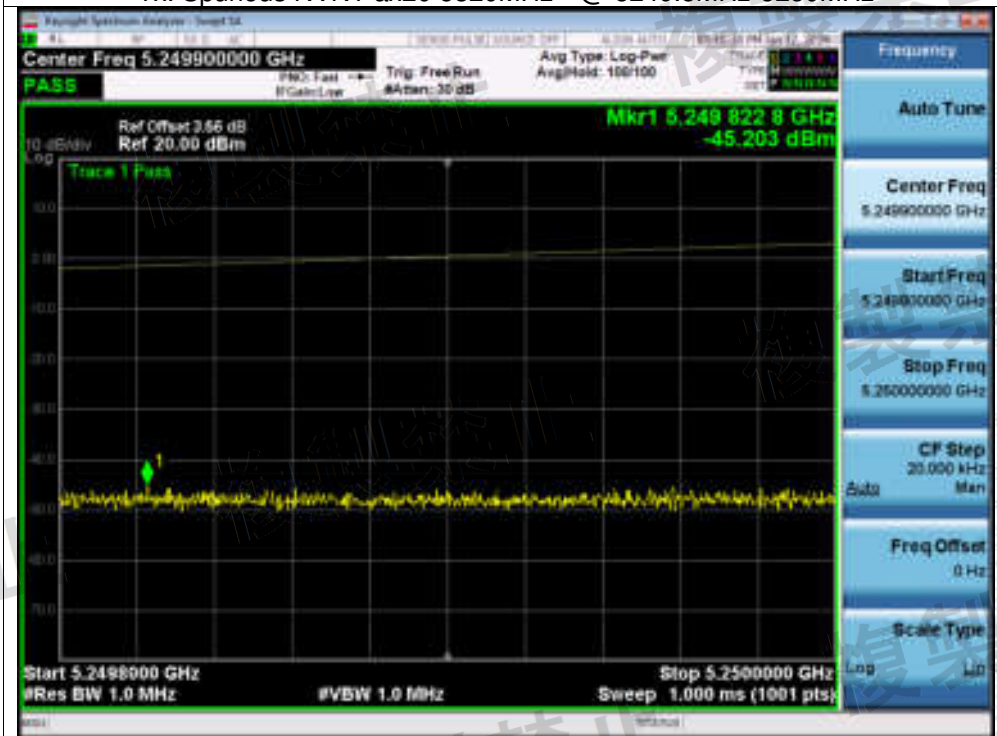
Tx. Spurious NVNT ax20 5320MHz @ 5240MHz-5249MHz



Tx. Spurious NVNT ax20 5320MHz @ 5249MHz-5249.8MHz



Tx. Spurious NVNT ax20 5320MHz @ 5249.8MHz-5250MHz



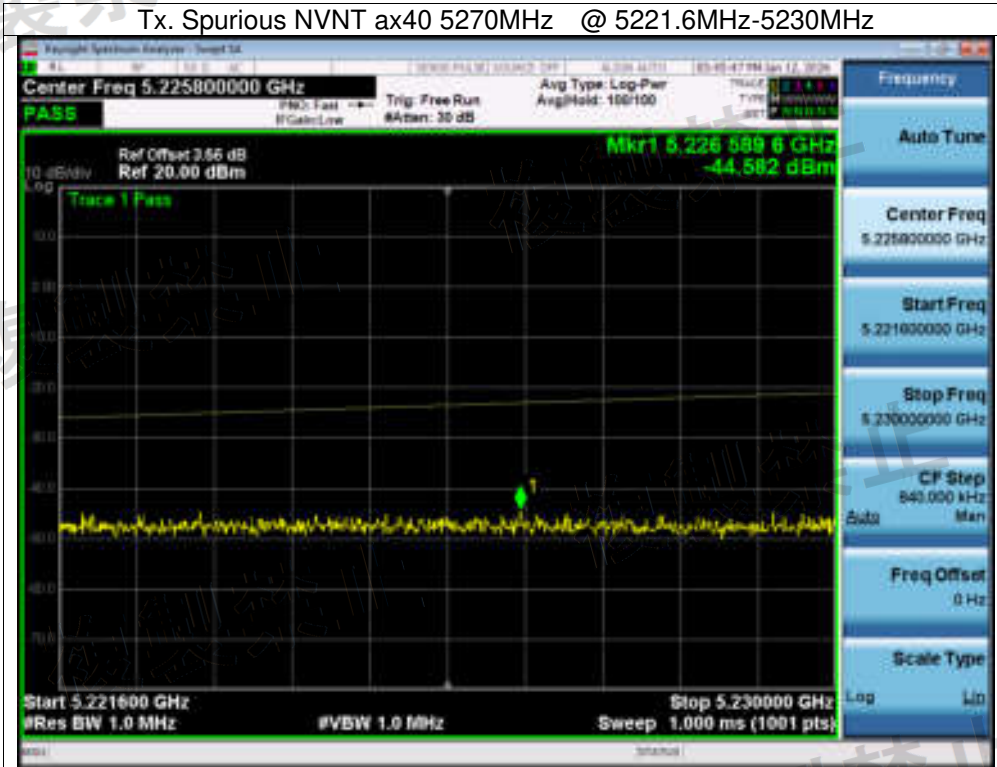
Tx. Spurious NVNT ax20 5320MHz @ 5350MHz-26000MHz



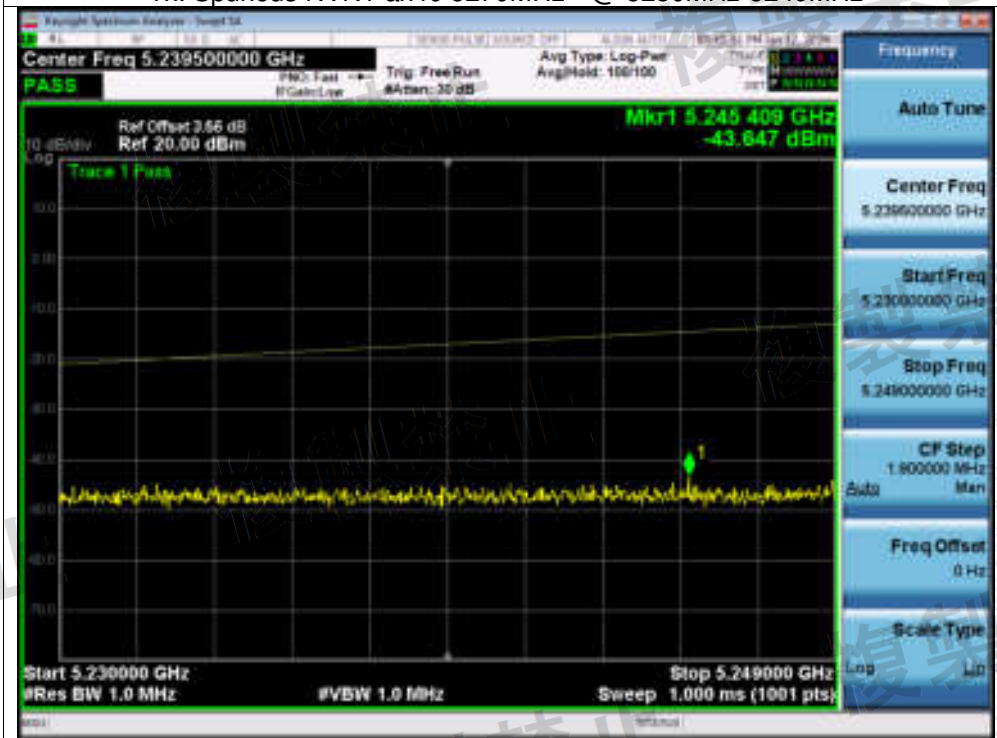
Tx. Spurious NVNT ax40 5270MHz @ 30MHz-5221.6MHz



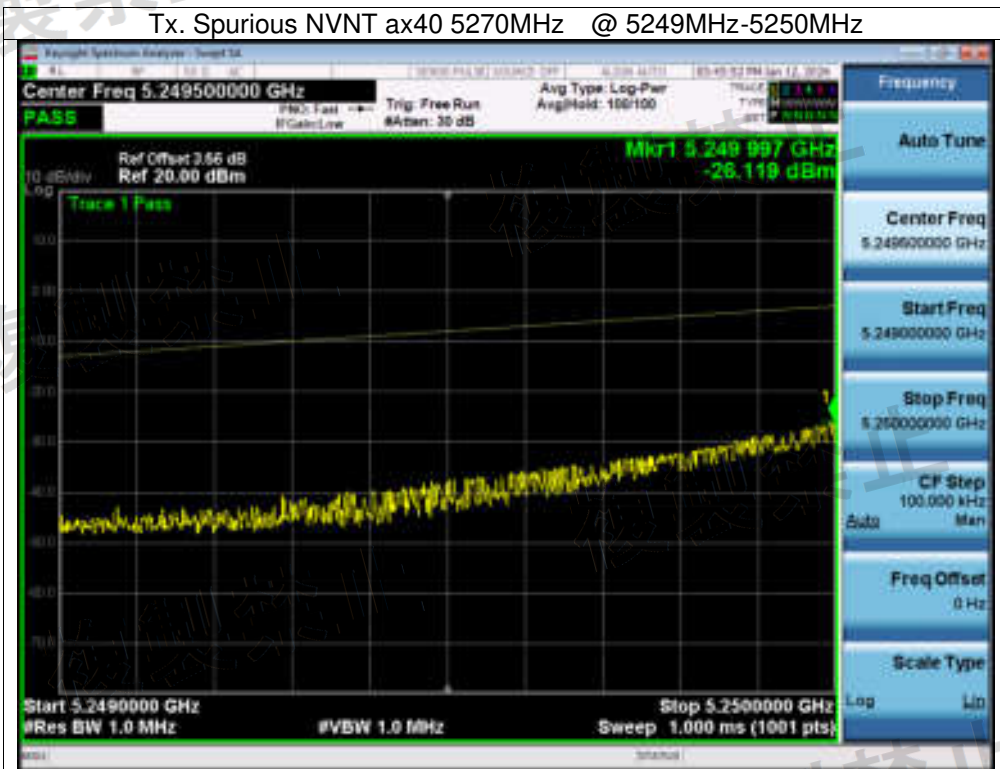
Tx. Spurious NVNT ax40 5270MHz @ 5221.6MHz-5230MHz



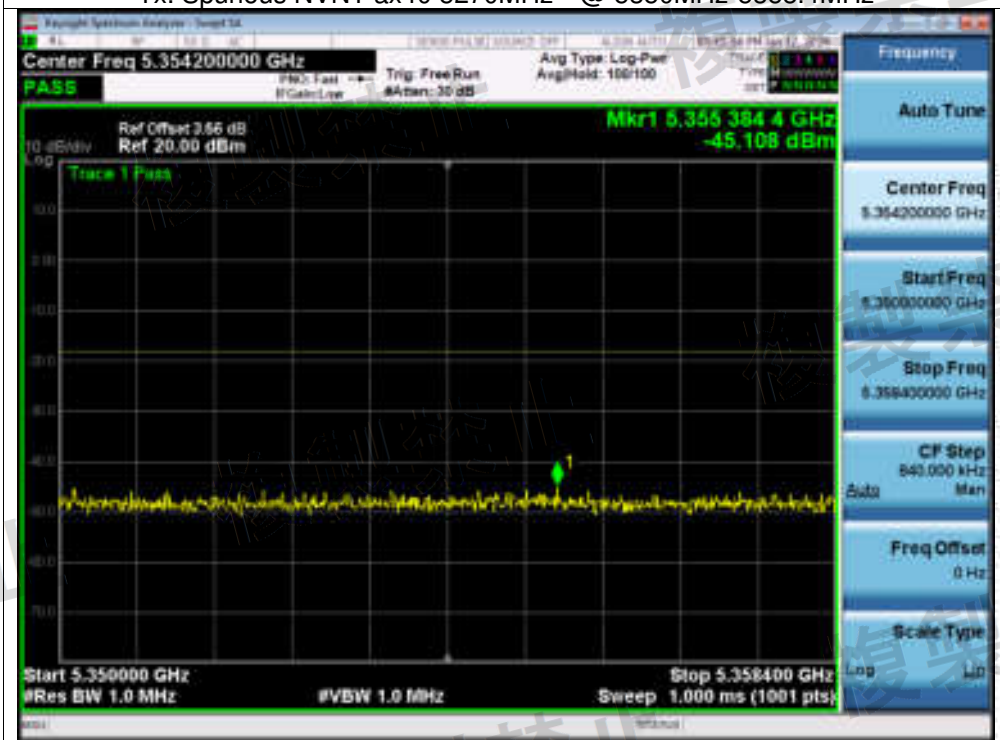
Tx. Spurious NVNT ax40 5270MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT ax40 5270MHz @ 5249MHz-5250MHz



Tx. Spurious NVNT ax40 5270MHz @ 5350MHz-5358.4MHz



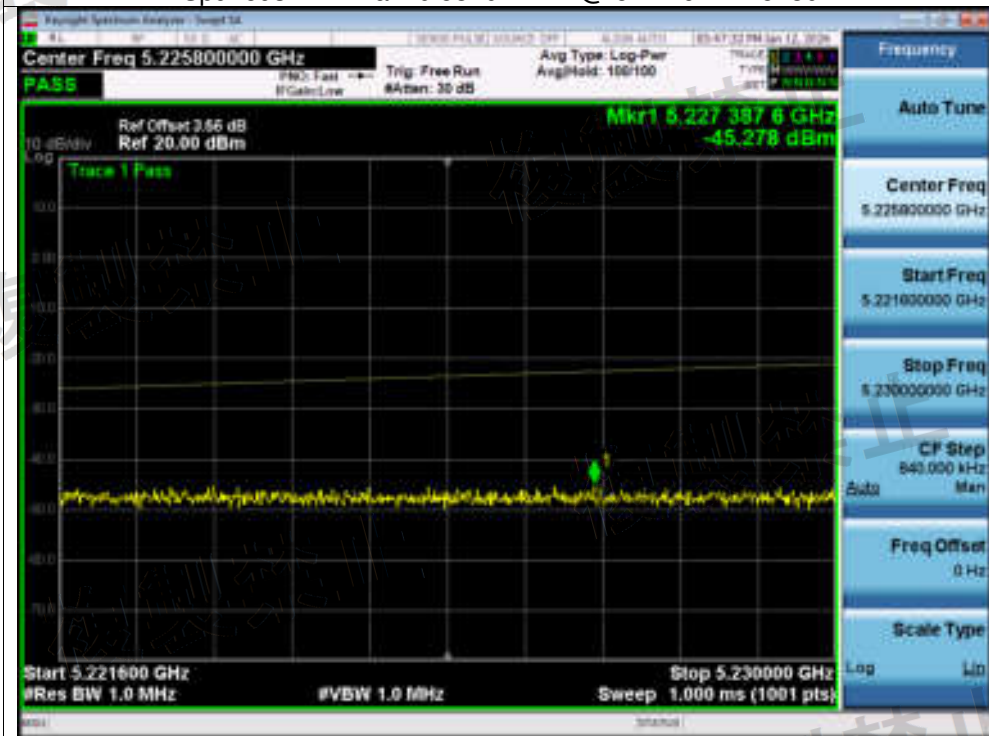
Tx. Spurious NVNT ax40 5270MHz @ 5358.4MHz-26000MHz



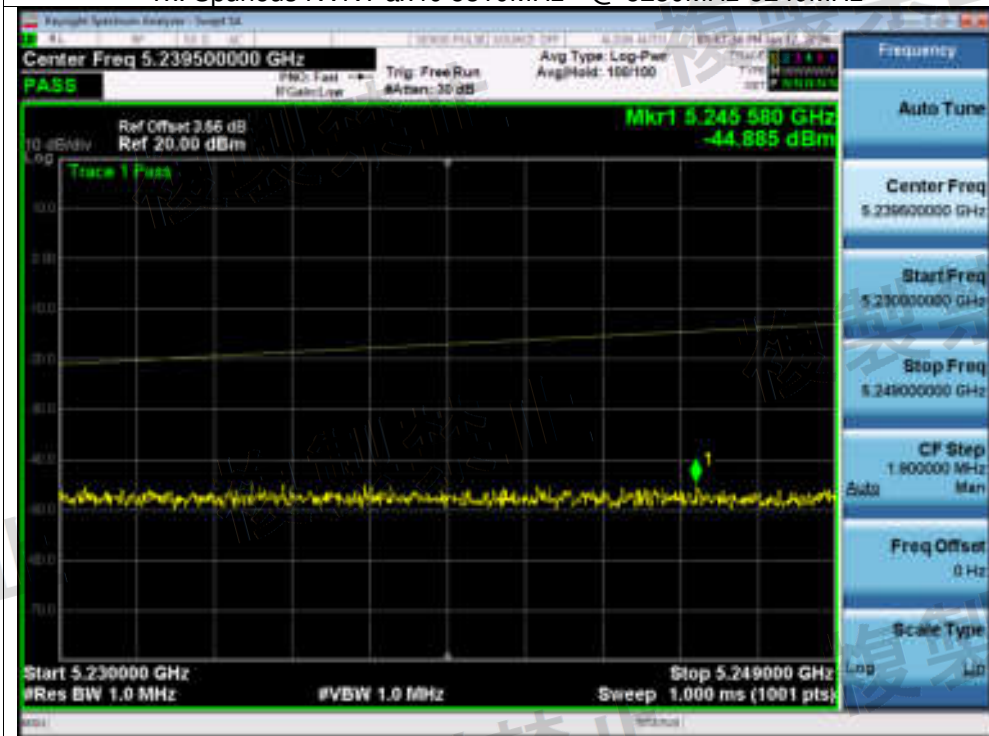
Tx. Spurious NVNT ax40 5310MHz @ 30MHz-5221.6MHz



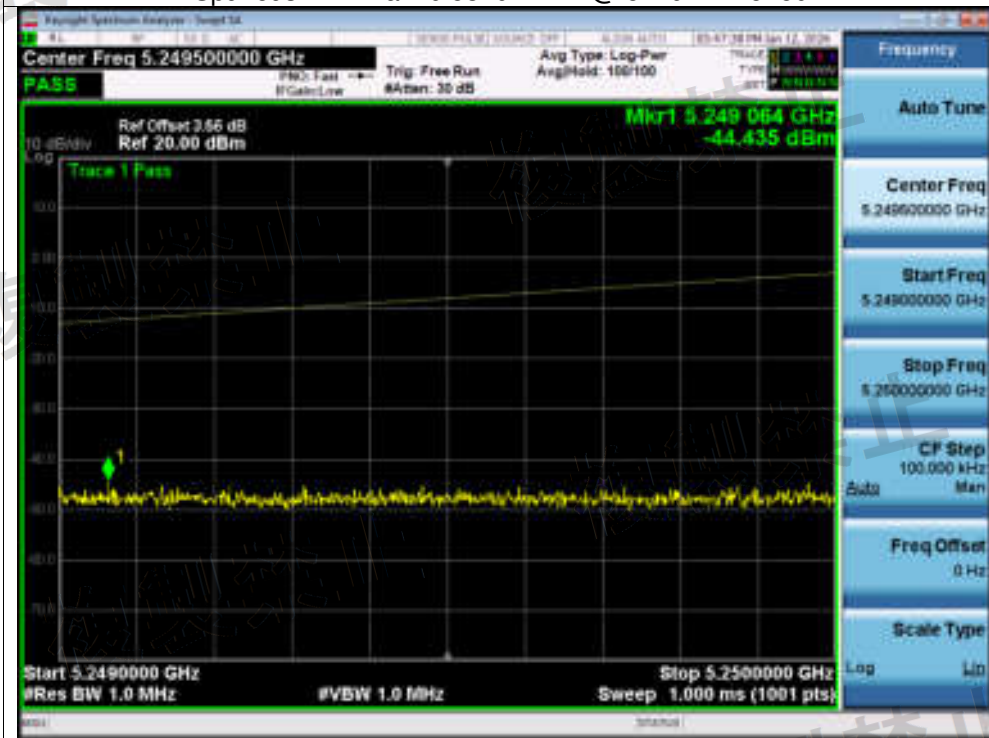
Tx. Spurious NVNT ax40 5310MHz @ 5221.6MHz-5230MHz



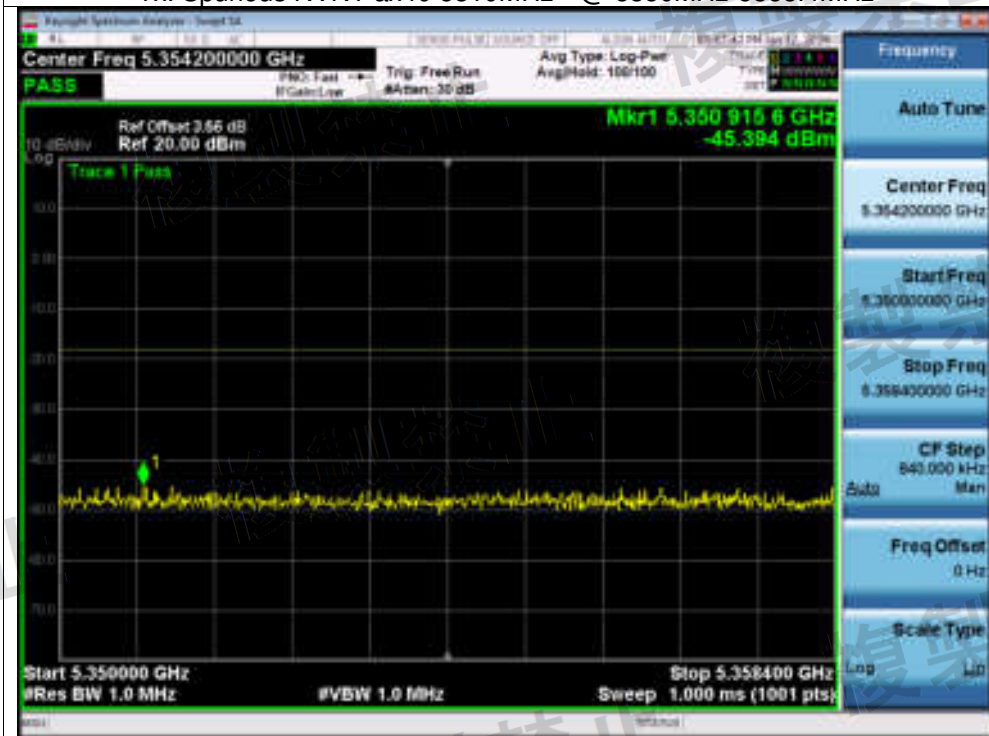
Tx. Spurious NVNT ax40 5310MHz @ 5230MHz-5249MHz



Tx. Spurious NVNT ax40 5310MHz @ 5249MHz-5250MHz



Tx. Spurious NVNT ax40 5310MHz @ 5350MHz-5358.4MHz

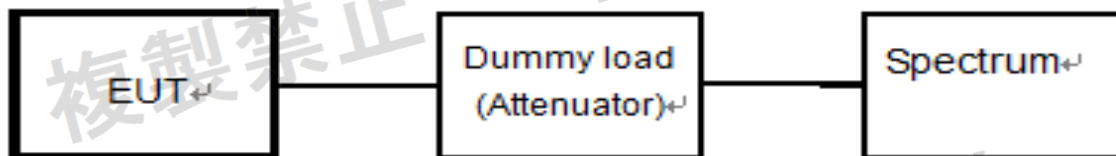


Tx. Spurious NVNT ax40 5310MHz @ 5358.4MHz-26000MHz



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

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. 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
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

11.5 Test Result

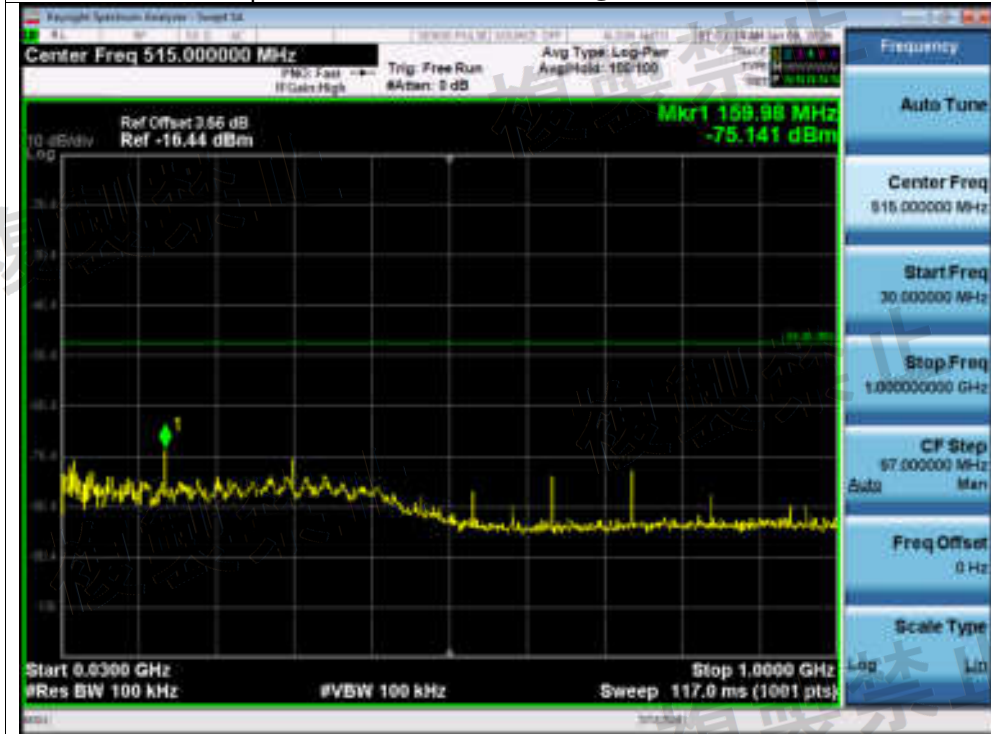
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	30-1000	159.98	-75.14	-54	Pass
NVNT	a	5260	1000-26000	5175	-55.54	-47	Pass
NVNT	a	5280	30-1000	159.98	-74.96	-54	Pass
NVNT	a	5280	1000-26000	5175	-56.58	-47	Pass
NVNT	a	5320	30-1000	159.98	-75.03	-54	Pass
NVNT	a	5320	1000-26000	2450	-56.81	-47	Pass
NVNT	n40	5270	30-1000	159.98	-75.16	-54	Pass
NVNT	n40	5270	1000-26000	5175	-55.86	-47	Pass
NVNT	n40	5310	30-1000	159.98	-75.09	-54	Pass
NVNT	n40	5310	1000-26000	5175	-55.91	-47	Pass

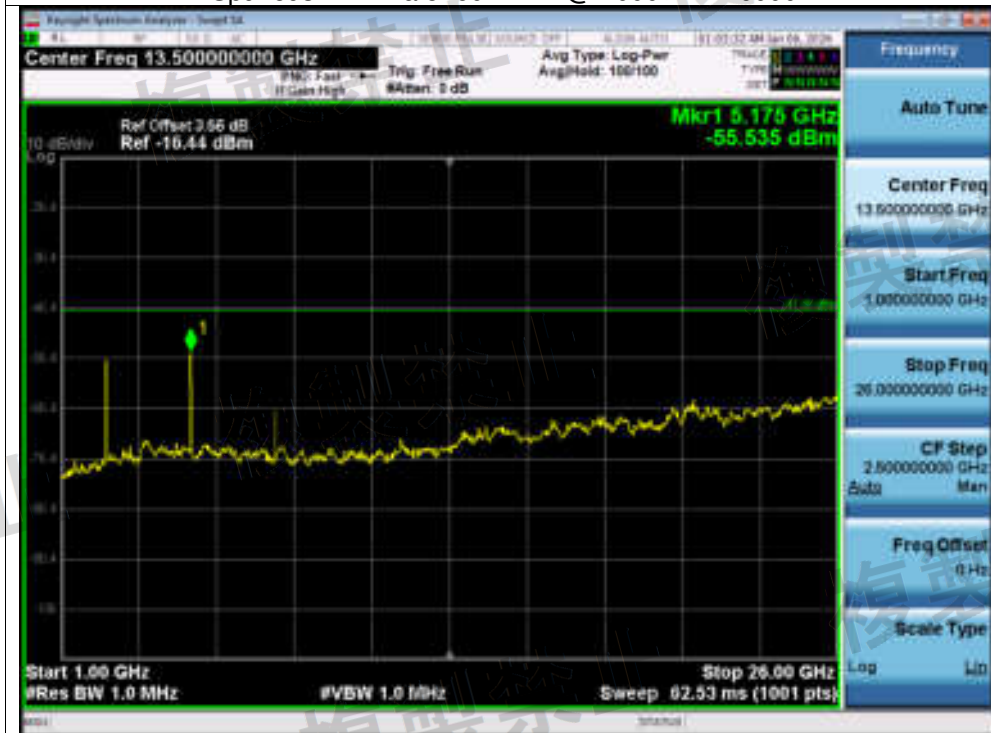
All the modes were tested and only recorded the worst mode in the report.

Test Graphs

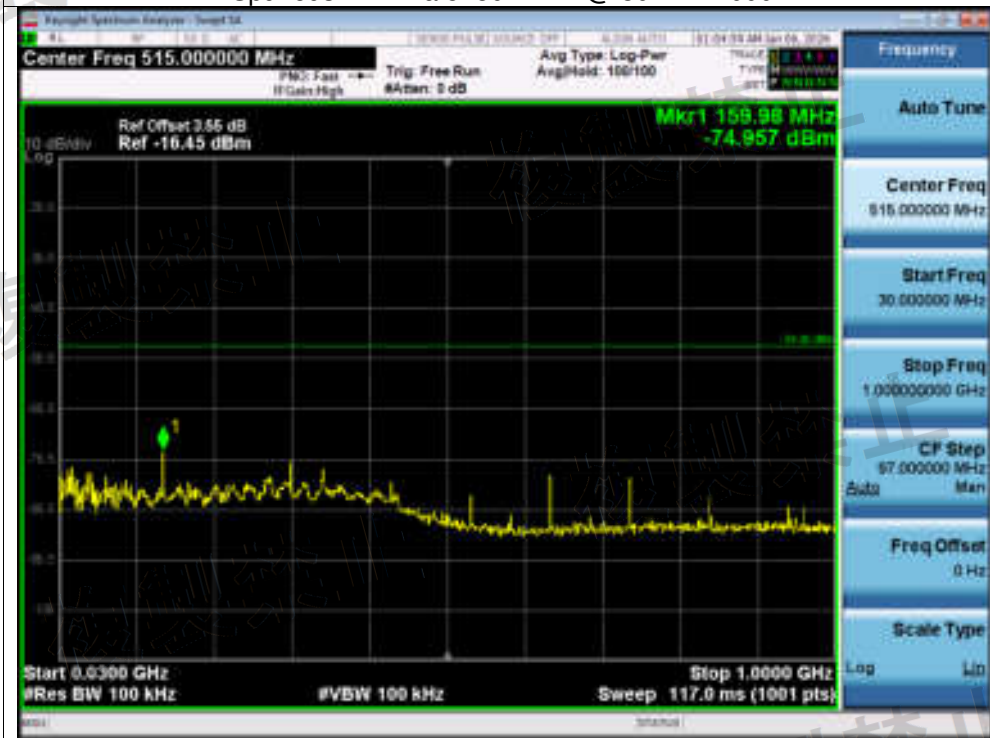
Rx. Spurious NVNT a 5260MHz @ 30MHz-1000MHz



Rx. Spurious NVNT a 5260MHz @ 1000MHz-26000MHz



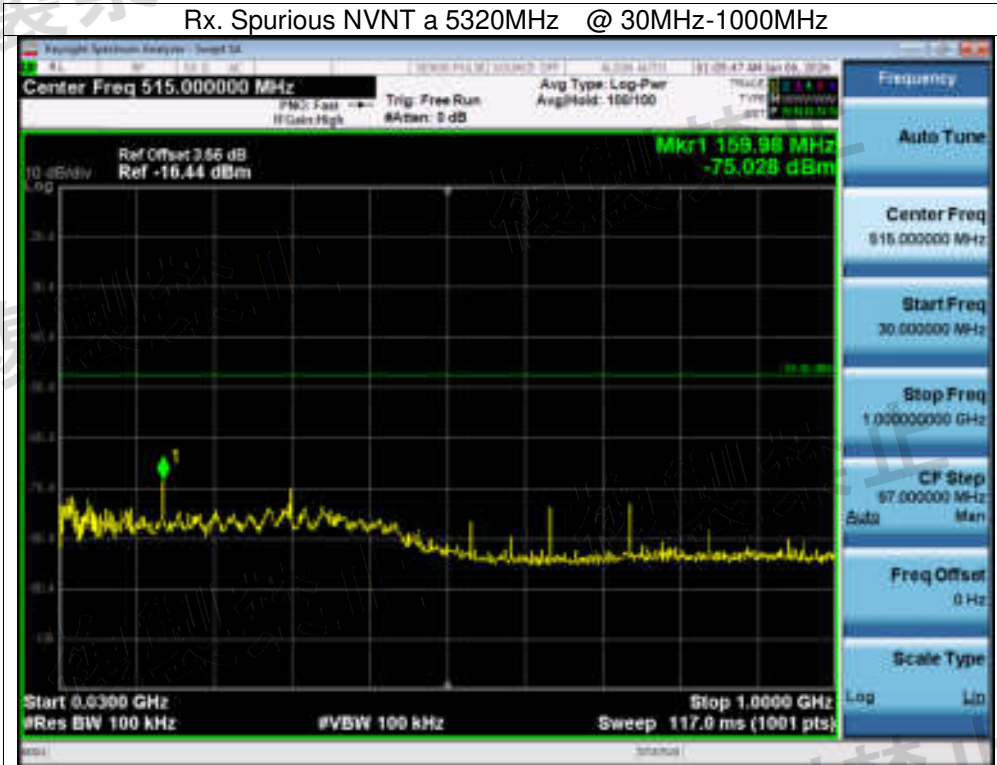
Rx. Spurious NVNT a 5280MHz @ 30MHz-1000MHz



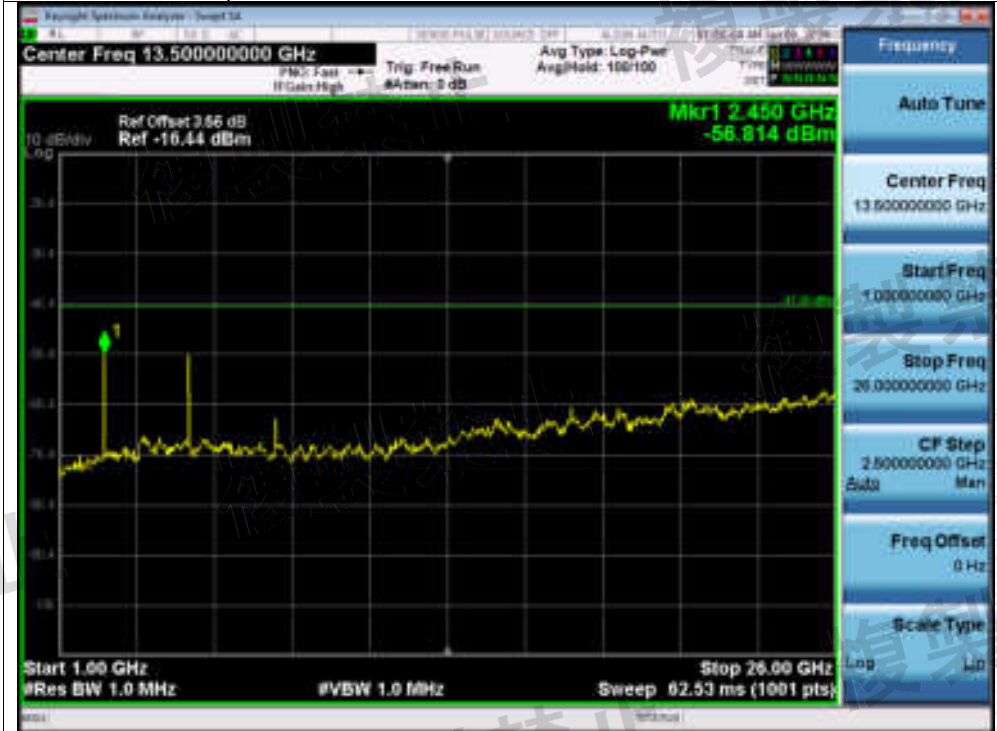
Rx. Spurious NVNT a 5280MHz @ 1000MHz-26000MHz



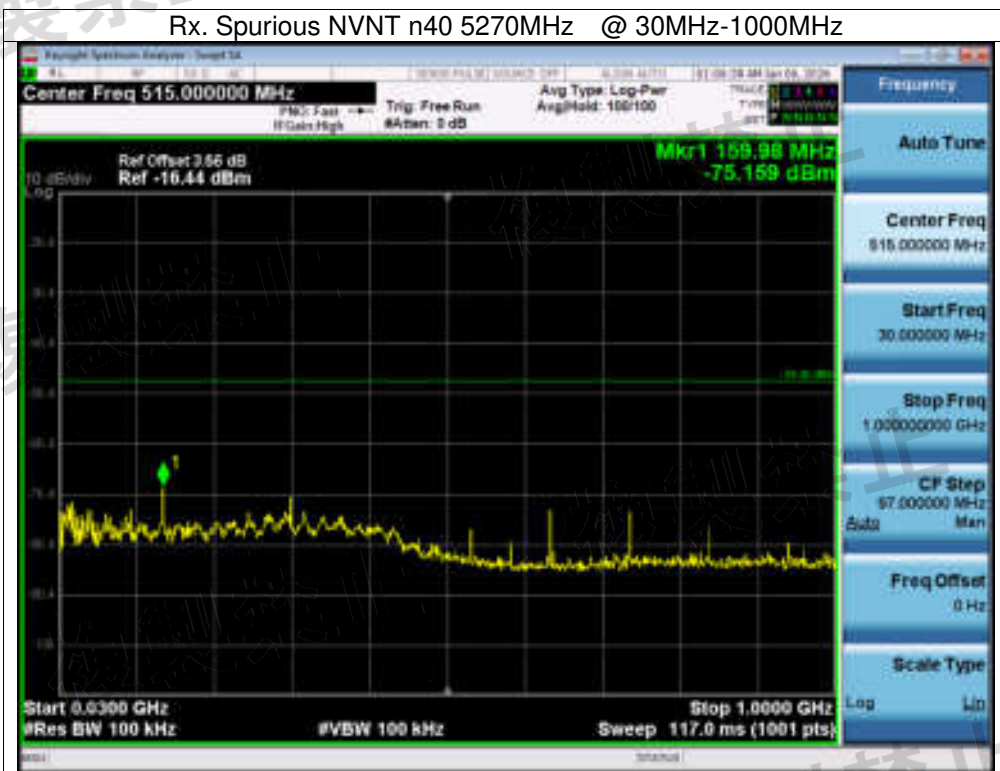
Rx. Spurious NVNT a 5320MHz @ 30MHz-1000MHz



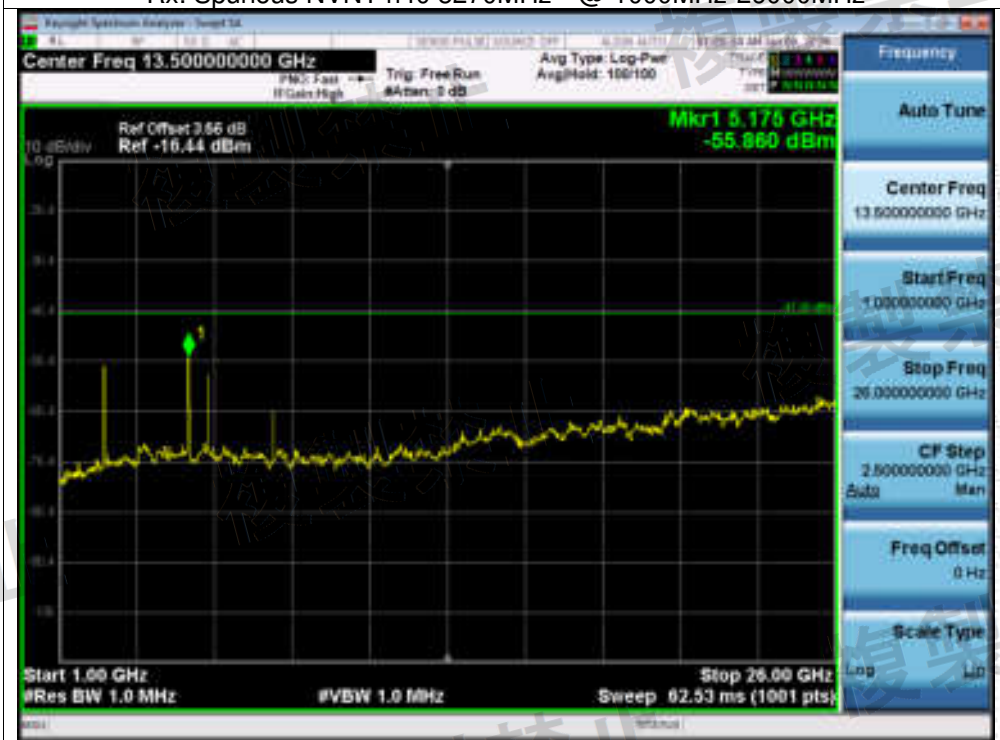
Rx. Spurious NVNT a 5320MHz @ 1000MHz-26000MHz



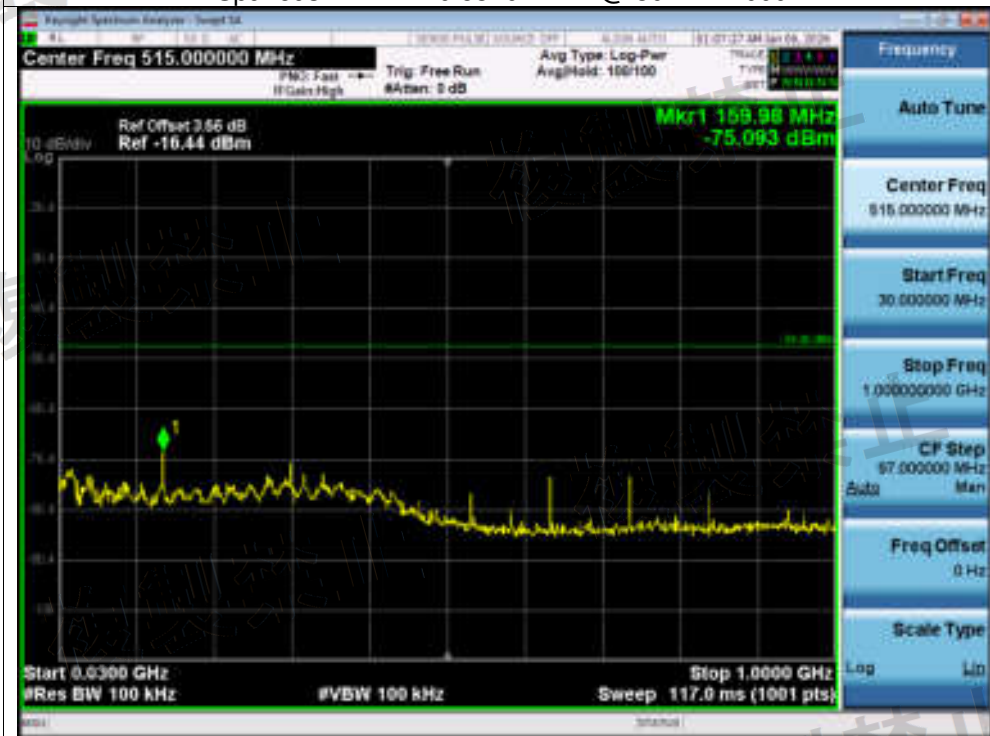
Rx. Spurious NVNT n40 5270MHz @ 30MHz-1000MHz



Rx. Spurious NVNT n40 5270MHz @ 1000MHz-26000MHz



Rx. Spurious NVNT n40 5310MHz @ 30MHz-1000MHz

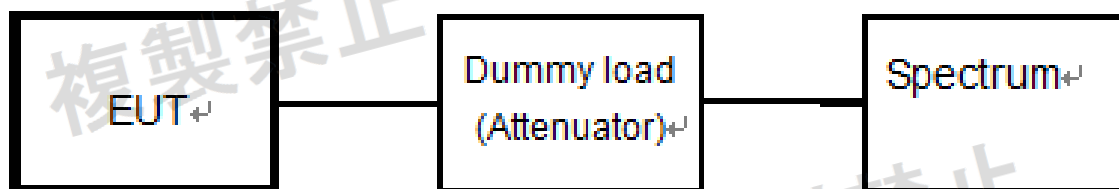


Rx. Spurious NVNT n40 5310MHz @ 1000MHz-26000MHz



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.

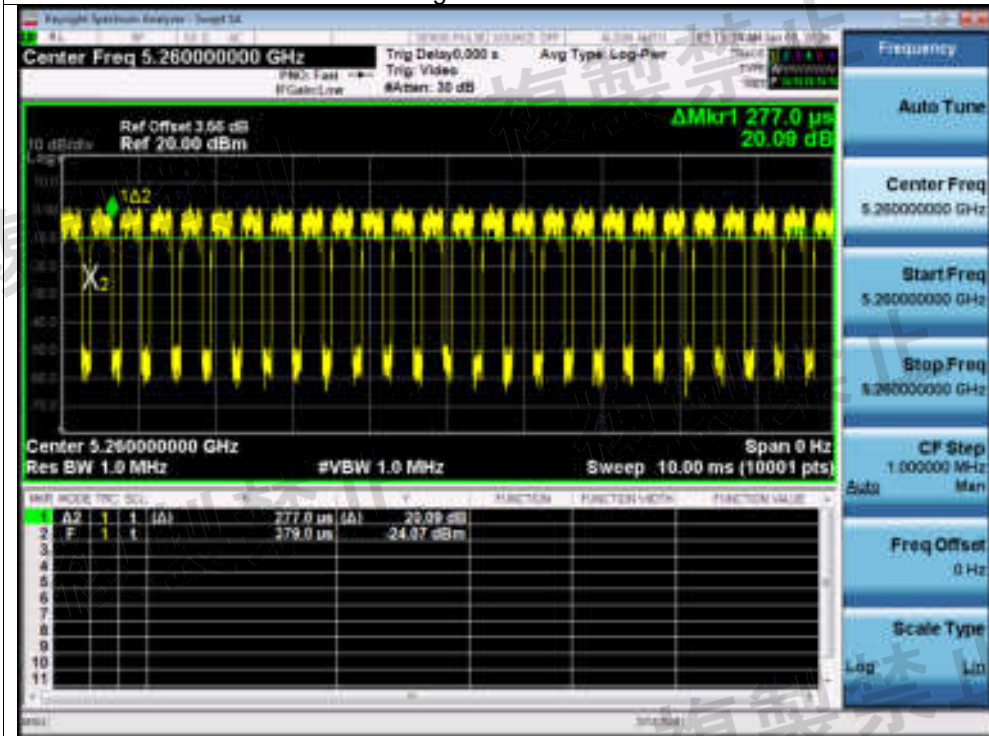
Spectrum Parameter	Setting
Center frequency	Test frequency
Sweep bandwidth	0Hz
Resoluble bandwidth	1MHz
Video bandwidth	equivalent to resolvable bandwidth
Sweep Time	Minimum time to assure measuring accuracy
Y-axis scale	10dB/Div.
Detection mode	Positive peak
Trigger condition	Rising up of level

12.4 Test Result

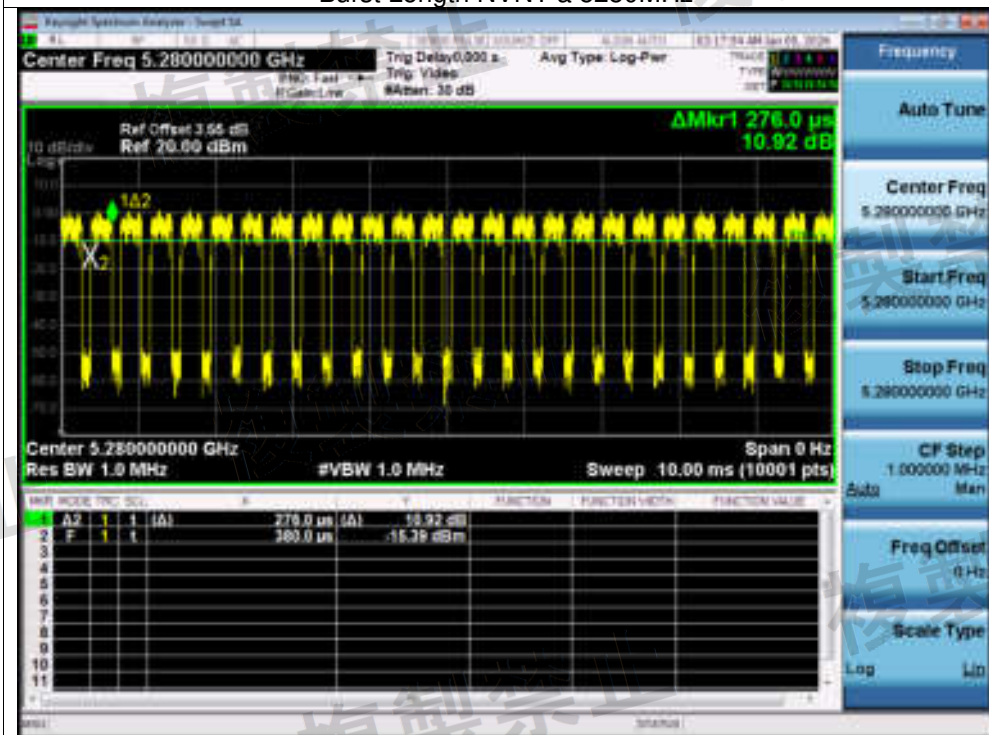
Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

Condition	Mode	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	5260	0.277	8	Pass
NVNT	a	5280	0.276	8	Pass
NVNT	a	5320	0.277	8	Pass
NVNT	n20	5260	0.292	8	Pass
NVNT	n20	5280	0.292	8	Pass
NVNT	n20	5320	0.292	8	Pass
NVNT	n40	5270	0.292	8	Pass
NVNT	n40	5310	0.292	8	Pass
NVNT	ac20	5260	0.297	8	Pass
NVNT	ac20	5280	0.297	8	Pass
NVNT	ac20	5320	0.296	8	Pass
NVNT	ac40	5270	0.304	8	Pass
NVNT	ac40	5310	0.304	8	Pass
NVNT	ax20	5260	0.265	8	Pass
NVNT	ax20	5280	0.265	8	Pass
NVNT	ax20	5320	0.265	8	Pass
NVNT	ax40	5270	0.256	8	Pass
NVNT	ax40	5310	0.256	8	Pass

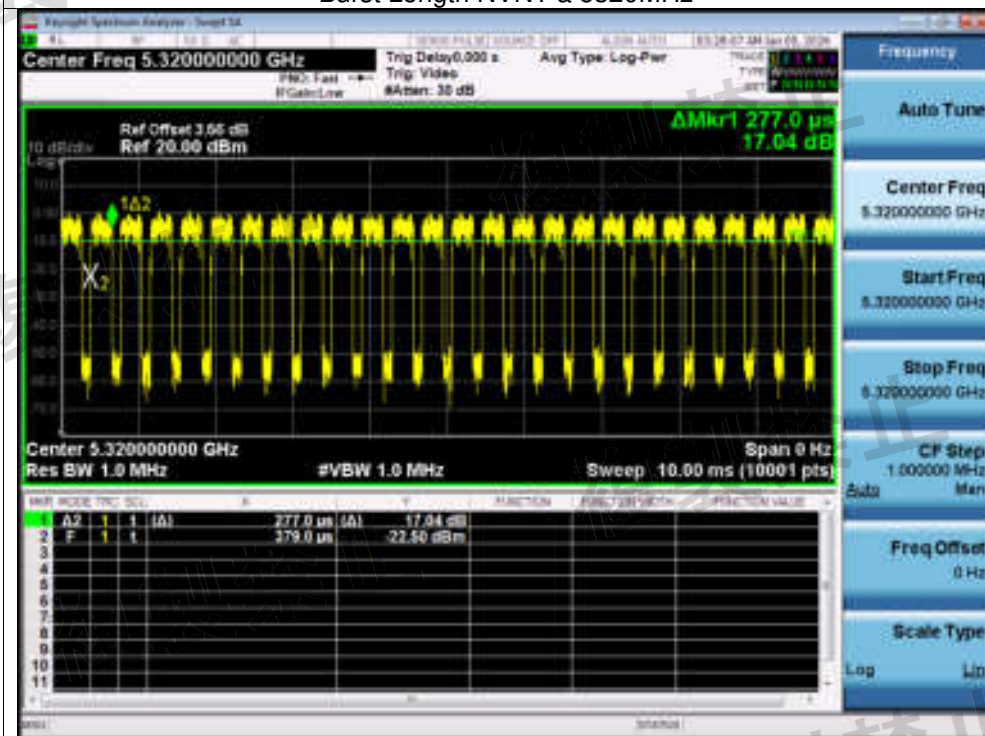
Test Graphs
Burst Length NVNT a 5260MHz



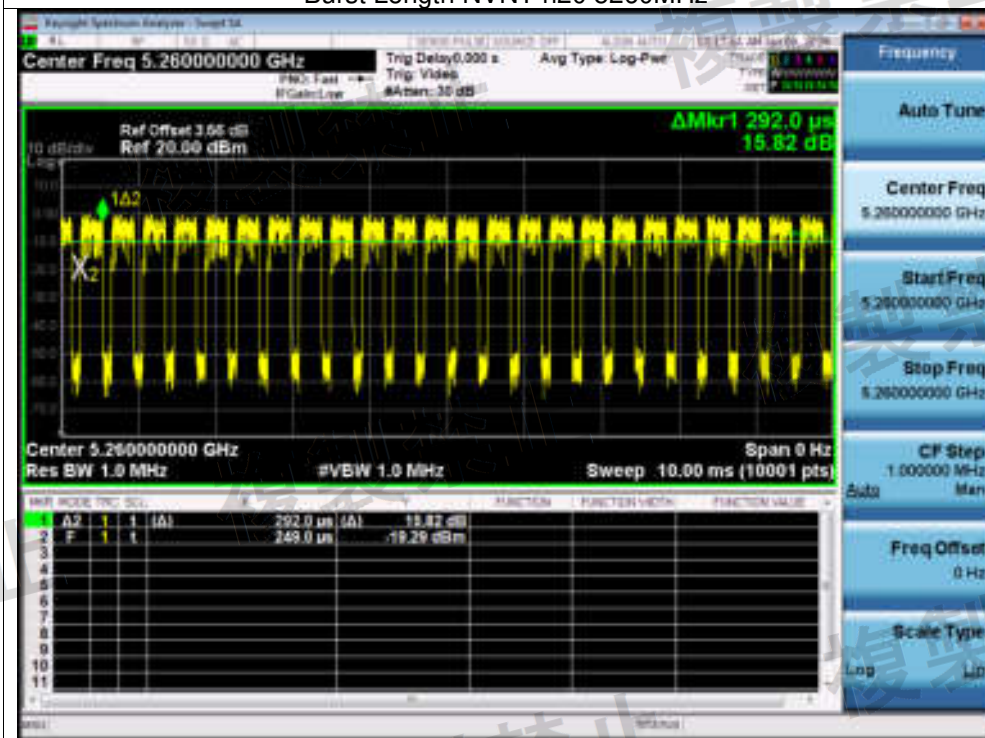
Burst Length NVNT a 5280MHz



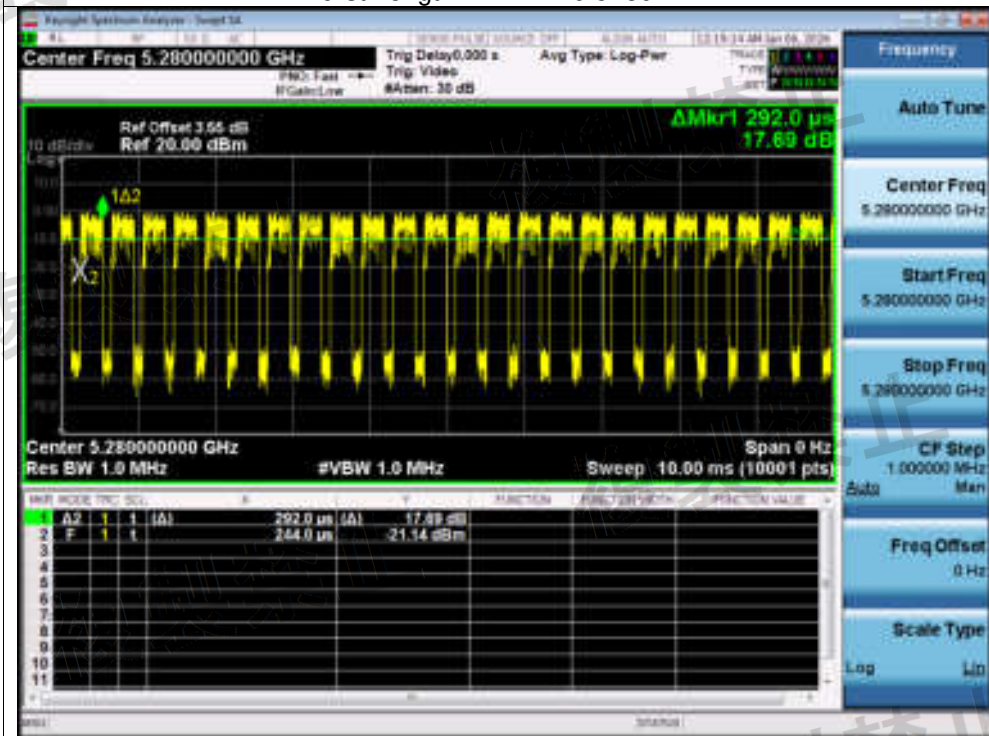
Burst Length NVNT a 5320MHz



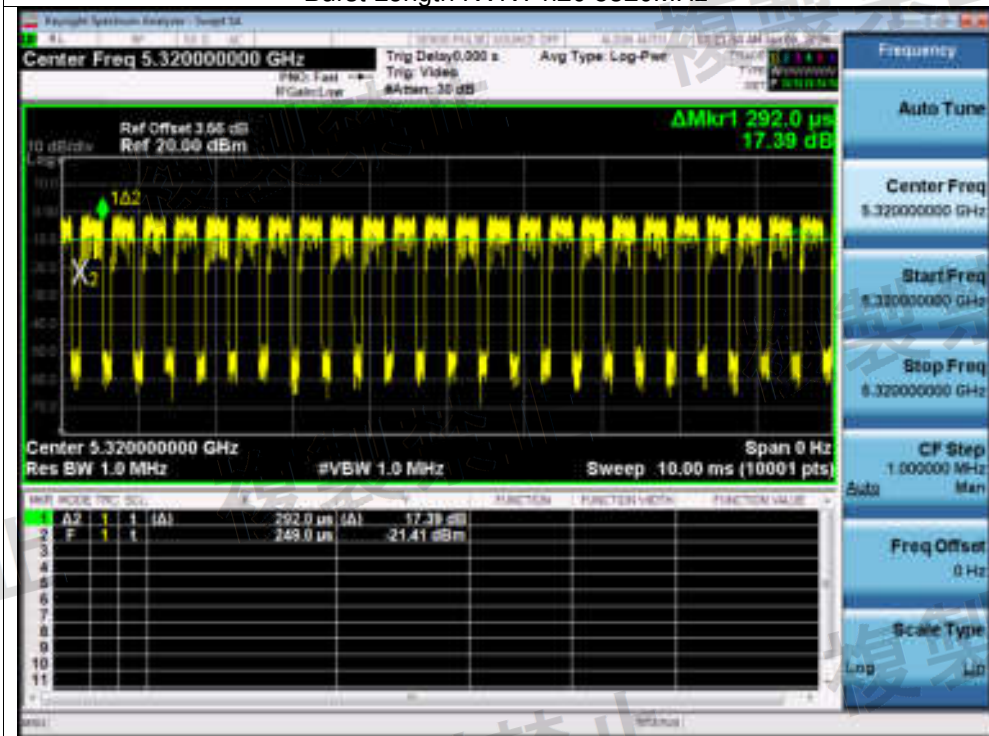
Burst Length NVNT n20 5260MHz



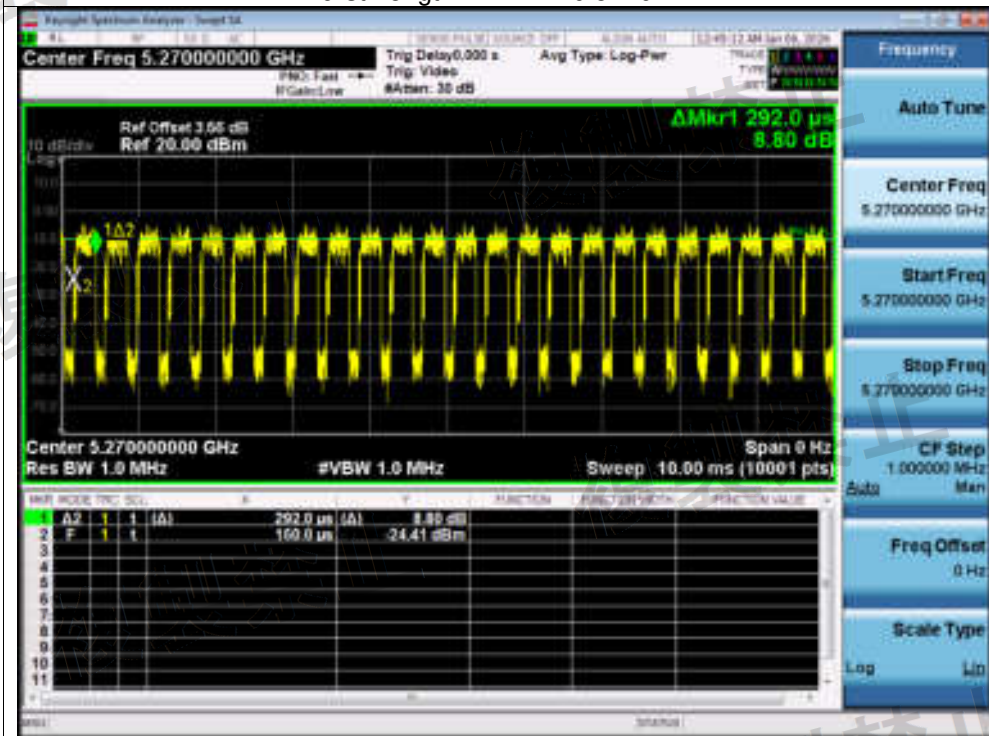
Burst Length NVNT n20 5280MHz



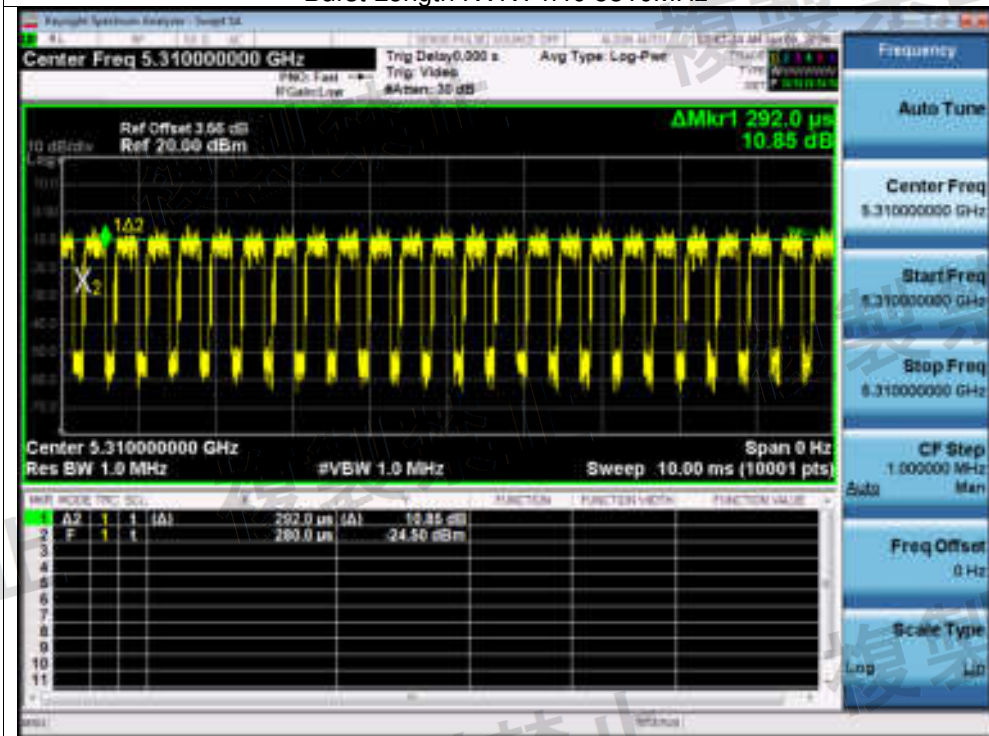
Burst Length NVNT n20 5320MHz



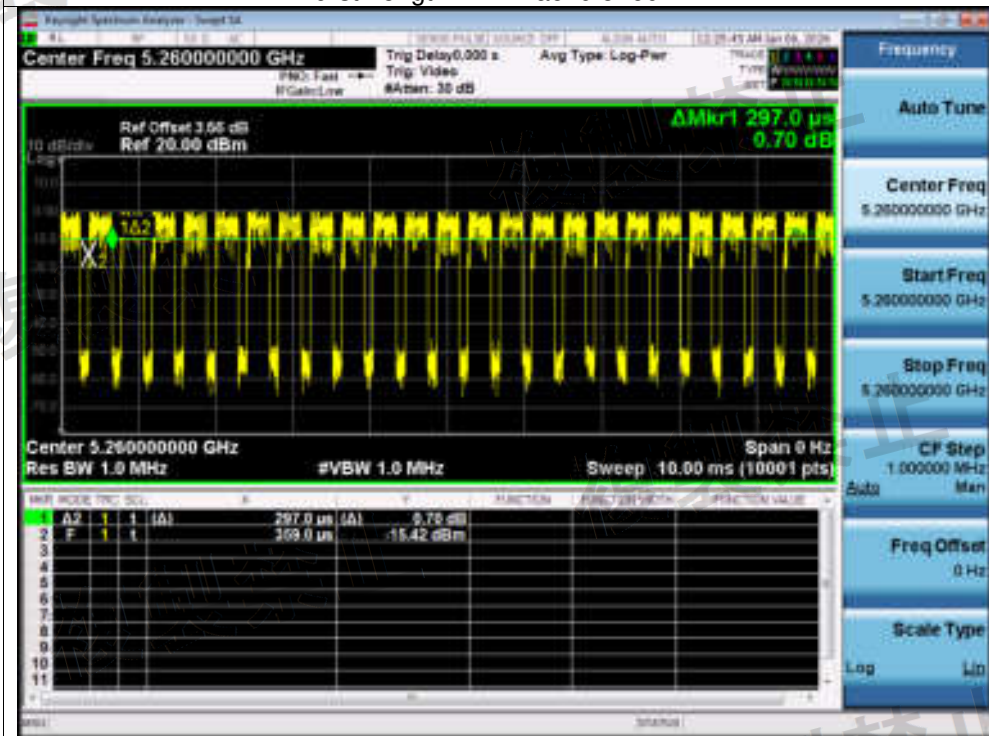
Burst Length NVNT n40 5270MHz



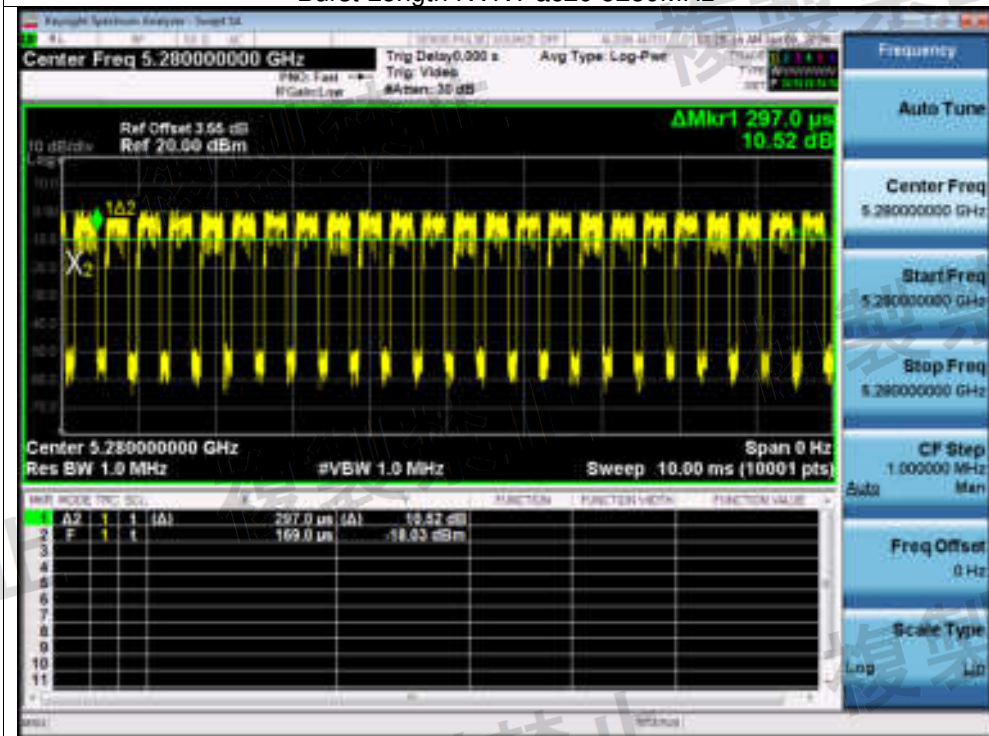
Burst Length NVNT n40 5310MHz



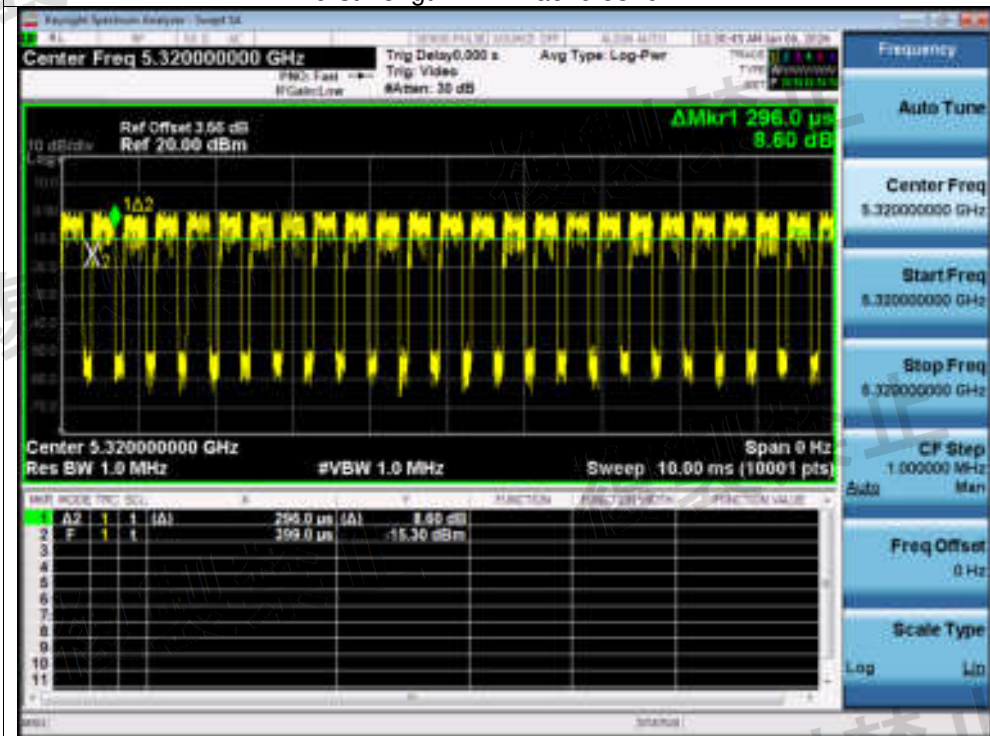
Burst Length NVNT ac20 5260MHz



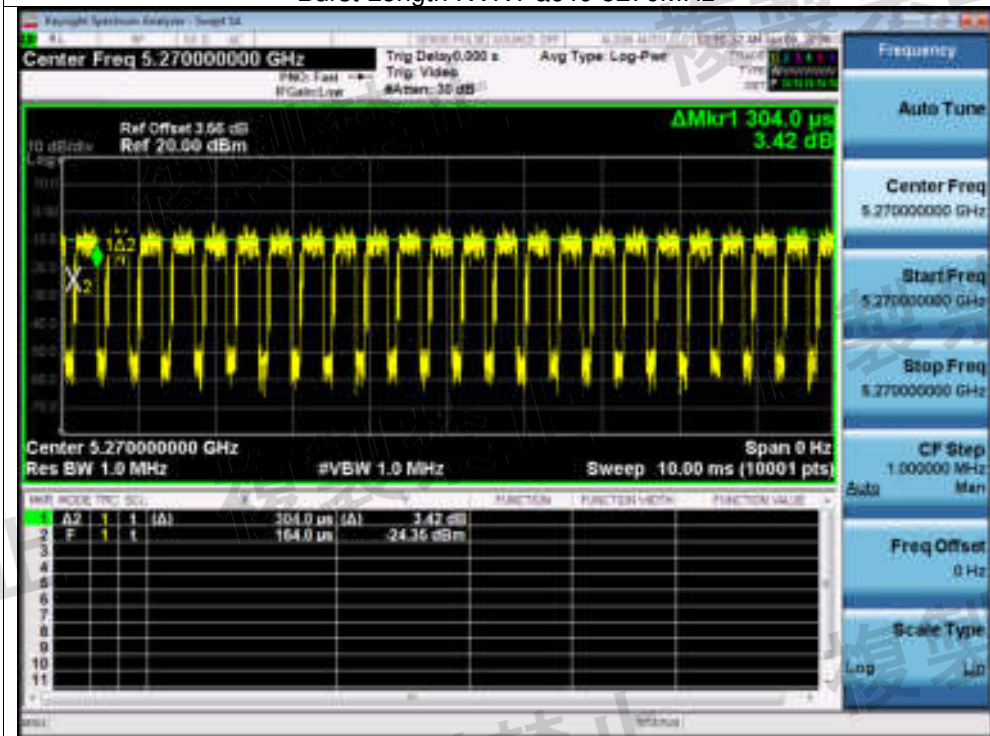
Burst Length NVNT ac20 5280MHz



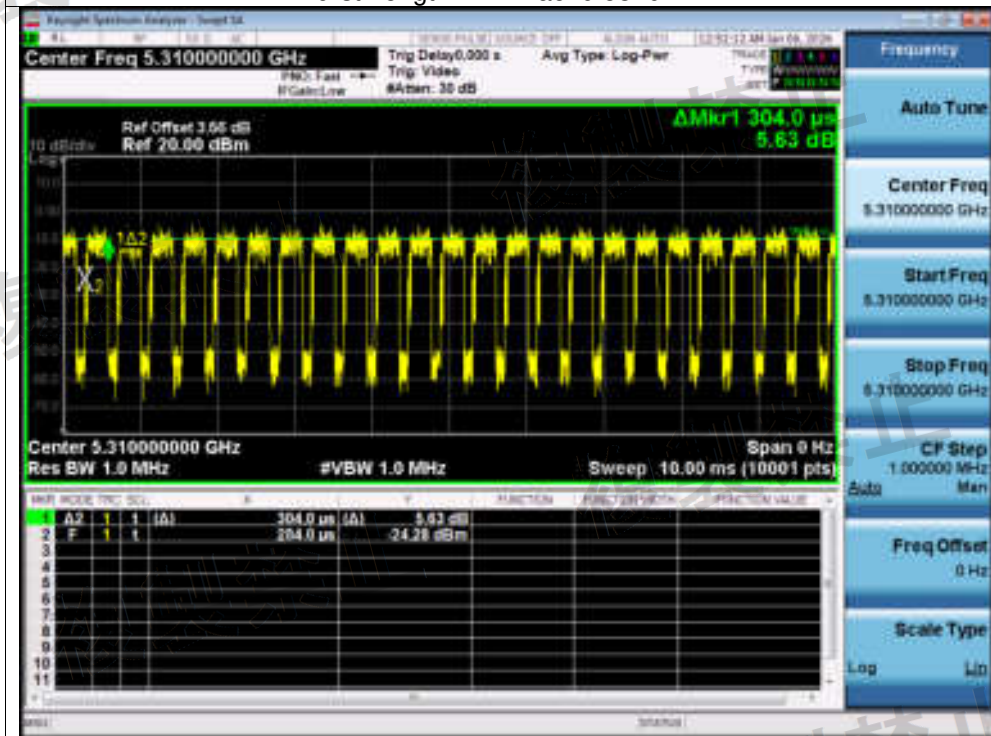
Burst Length NVNT ac20 5320MHz



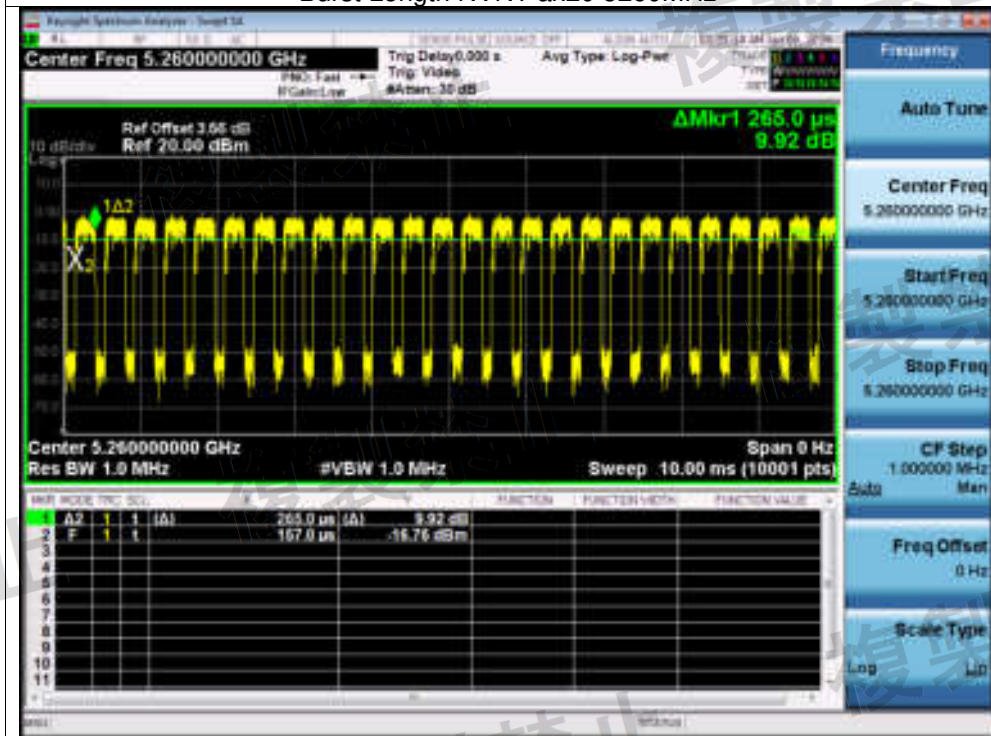
Burst Length NVNT ac40 5270MHz



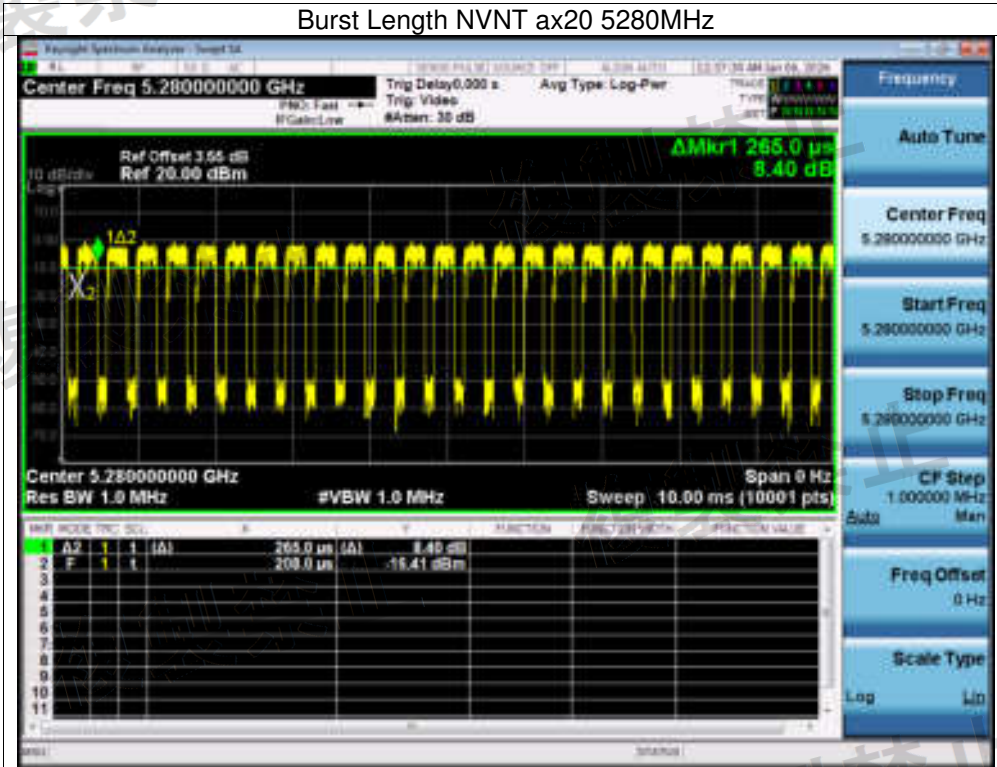
Burst Length NVNT ac40 5310MHz



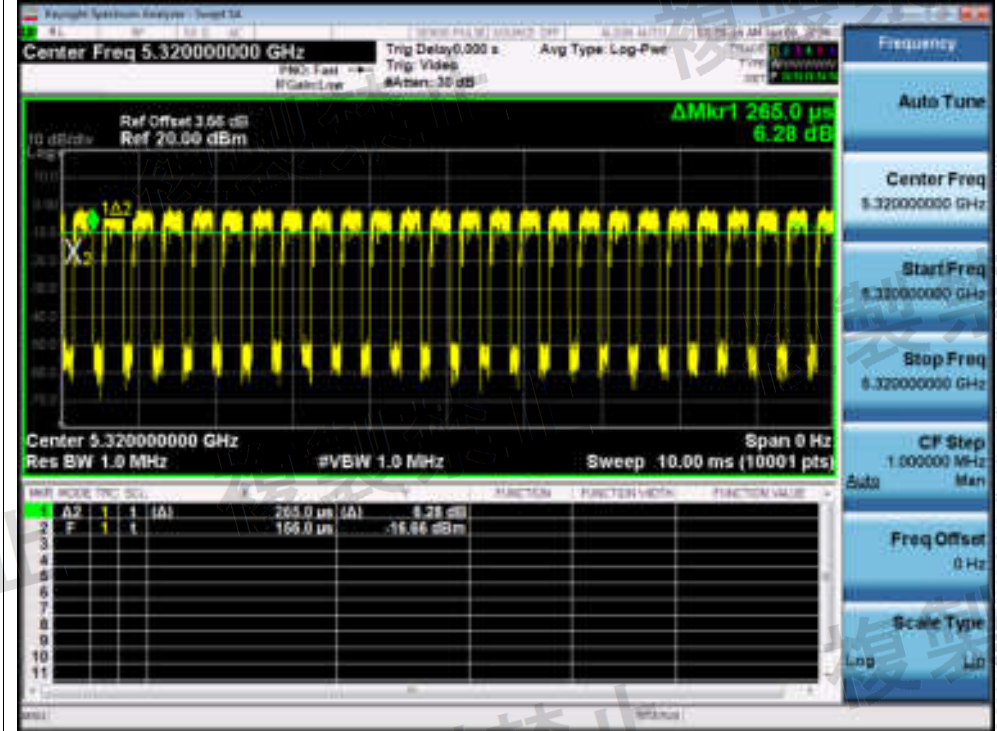
Burst Length NVNT ax20 5260MHz



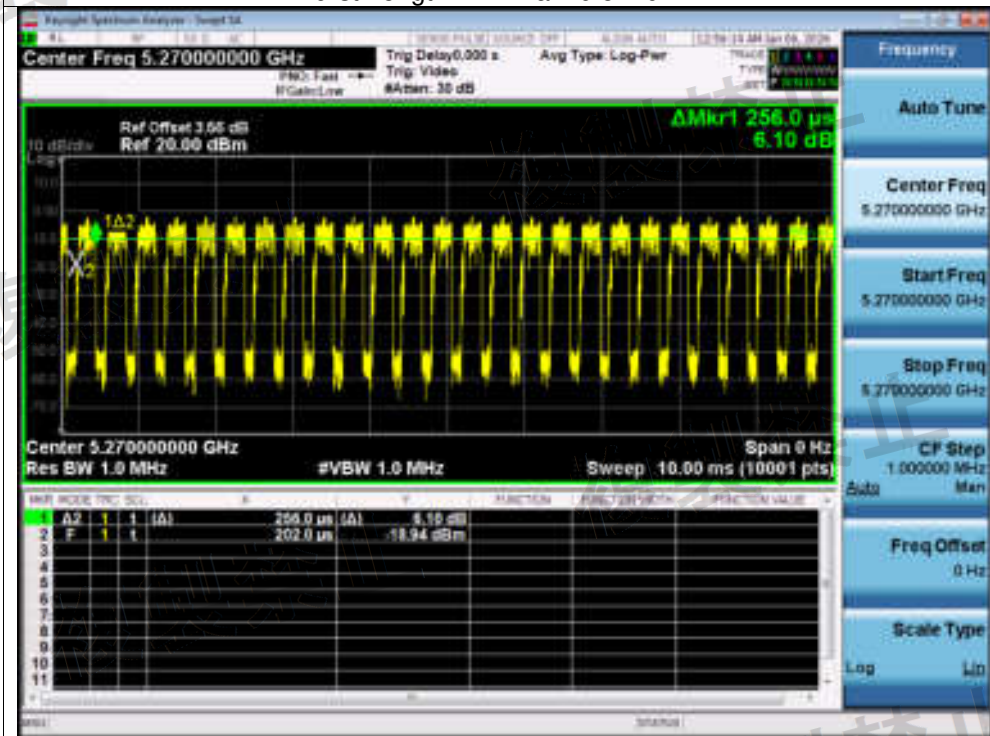
Burst Length NVNT ax20 5280MHz



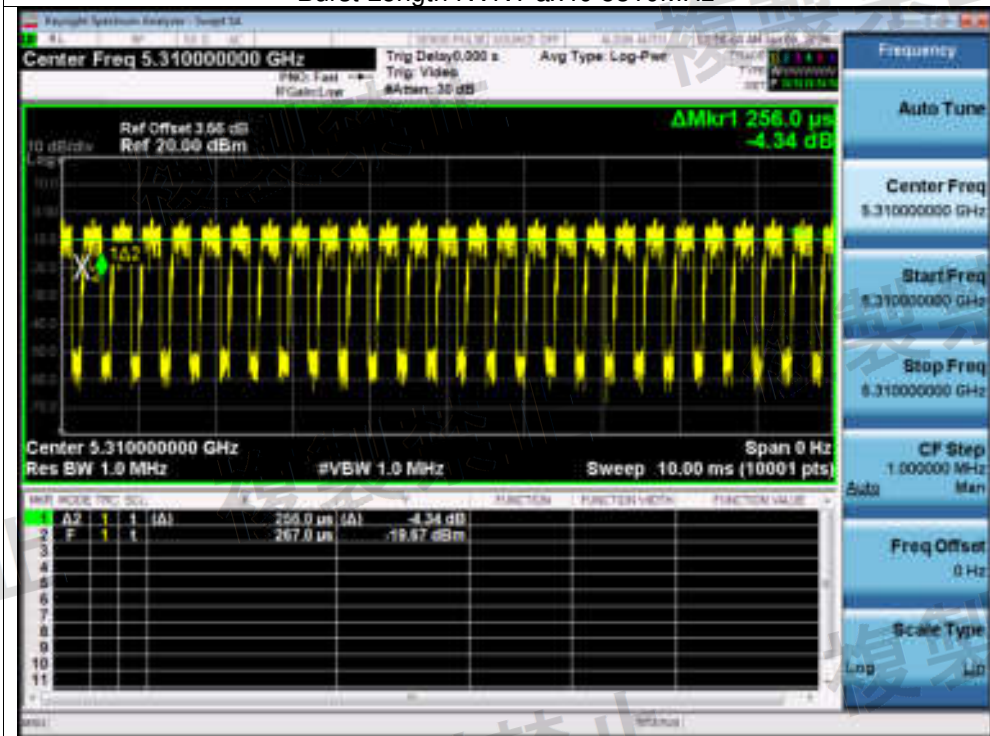
Burst Length NVNT ax20 5320MHz



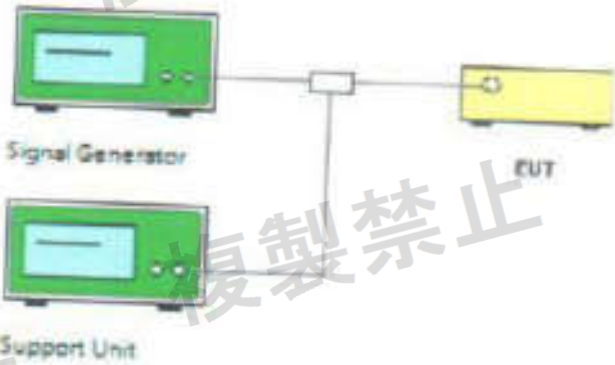
Burst Length NVNT ax40 5270MHz



Burst Length NVNT ax40 5310MHz



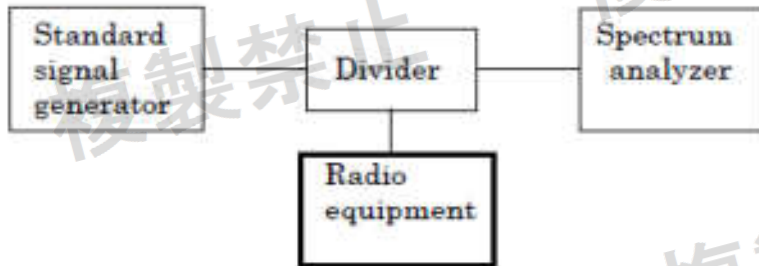
13. Interference Prevention Function Measurement

Test condition:	Test diffusion code and modulate with standard coding test signal
Test setup:	 The diagram shows a Signal Generator (green box) and a Support Unit (green box) connected to an EUT (yellow box). The Signal Generator is connected to the Support Unit, and the Support Unit is connected to the EUT.
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:	62:EC:F7:CF:05:2A

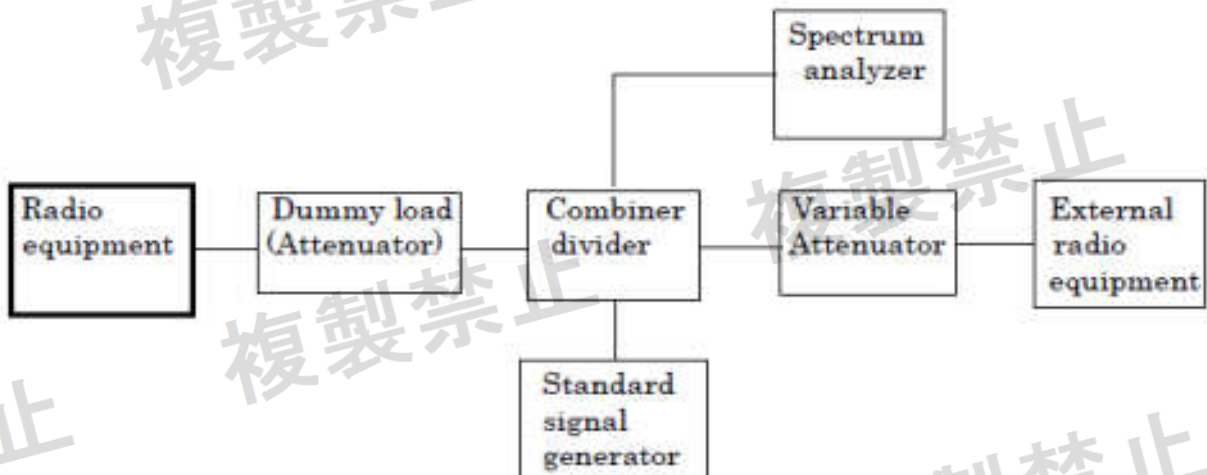
14. Carrier Sense Capability Measurement

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 radiowave 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 radiowave 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 radiowave 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 radiowave 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 $(on\ 22.79+G-20*\log(f)\text{dBm})$ (G is the antenna gain, f is the test frequency).

14.4 Test Result

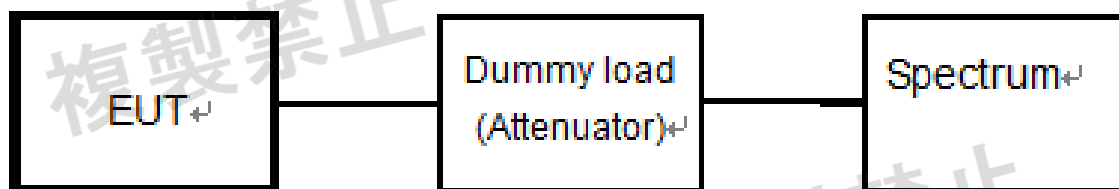
(1) RESULT

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
802.11ac20	CH52	Pass	Pass	Pass
	CH56	Pass	Pass	Pass
	CH64	Pass	Pass	Pass
802.11ac40	CH54	Pass	Pass	Pass
	CH62	Pass	Pass	Pass
802.11ax20	CH52	Pass	Pass	Pass
	CH56	Pass	Pass	Pass
	CH64	Pass	Pass	Pass
802.11ax40	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
$F_c \pm 20\text{MHz} \pm 10\text{MHz}$ BW : -25dBc $F_c \pm 40\text{MHz} \pm 10\text{MHz}$ BW : -40dBc	$F_c \pm 20\text{MHz} \pm 10\text{MHz}$ BW : -25dBc $F_c \pm 40\text{MHz} \pm 10\text{MHz}$ BW : -40dBc
802.11n40/ac40	802.11ac80
$F_c \pm 40\text{MHz} \pm 20\text{MHz}$ BW : -25dBc $F_c \pm 80\text{MHz} \pm 20\text{MHz}$ BW : -40dBc	$F_c \pm 80\text{MHz} \pm 40\text{MHz}$ 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)

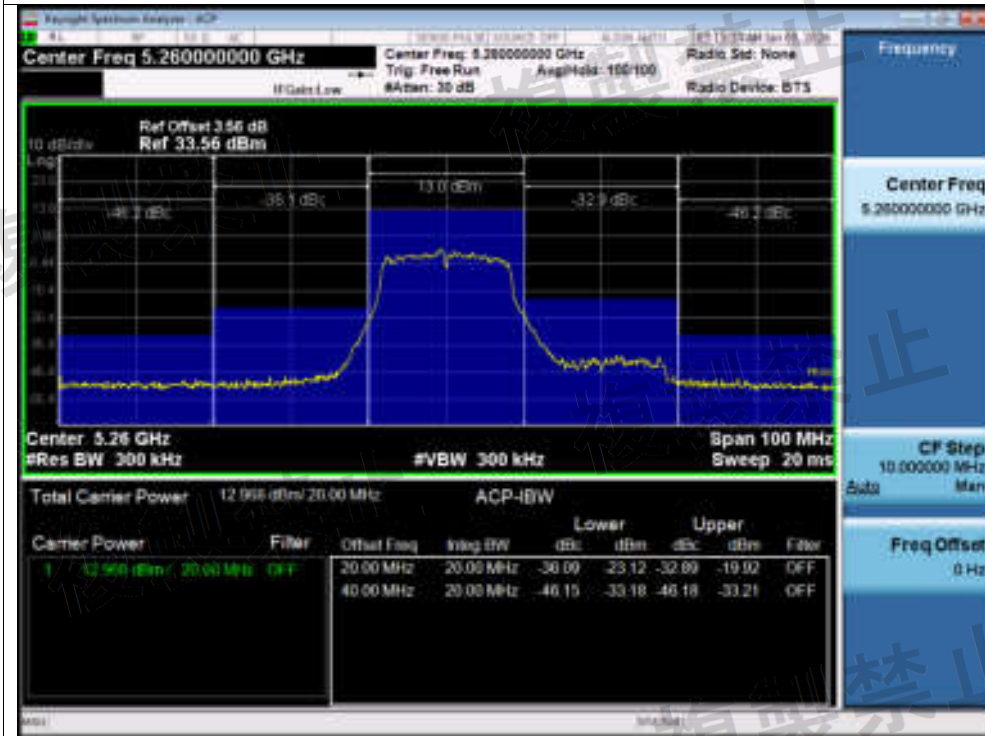
15.4 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage	AC 100V

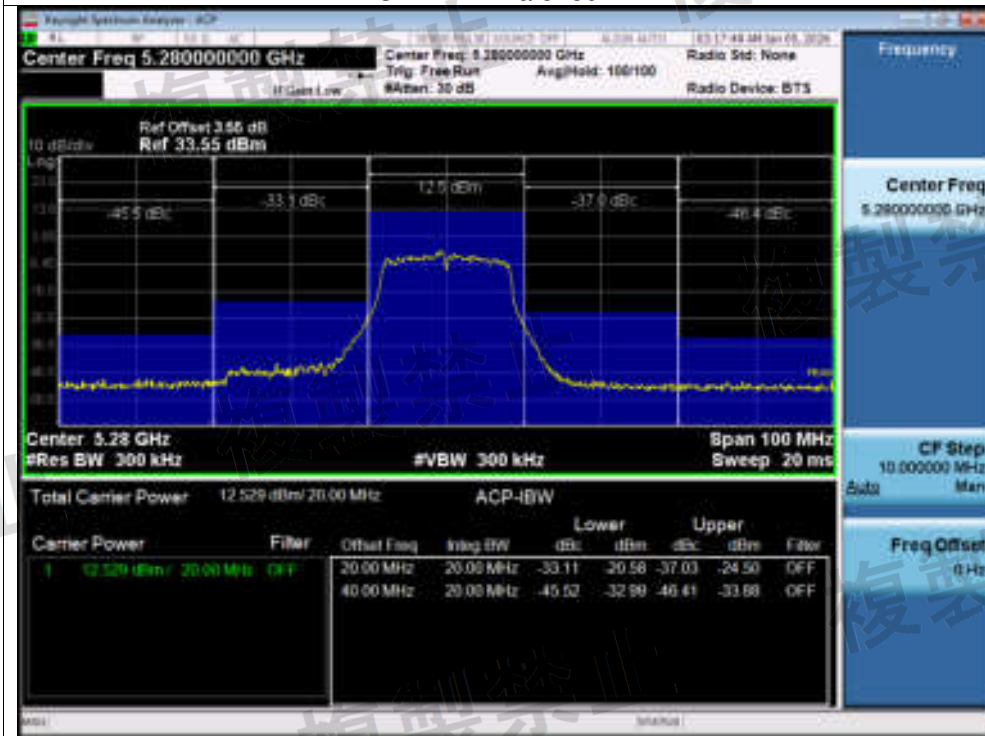
Condition	Mode	Frequency (MHz)	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	-20	-36.09	-25	Pass
NVNT	a	5260	-40	-46.15	-40	Pass
NVNT	a	5260	20	-32.89	-25	Pass
NVNT	a	5260	40	-46.18	-40	Pass
NVNT	a	5280	-20	-33.11	-25	Pass
NVNT	a	5280	-40	-45.52	-40	Pass
NVNT	a	5280	20	-37.03	-25	Pass
NVNT	a	5280	40	-46.41	-40	Pass
NVNT	a	5320	-20	-33.01	-25	Pass
NVNT	a	5320	-40	-45.12	-40	Pass
NVNT	a	5320	20	-37	-25	Pass
NVNT	a	5320	40	-46.12	-40	Pass
NVNT	n20	5260	-20	-31.78	-25	Pass
NVNT	n20	5260	-40	-45.02	-40	Pass
NVNT	n20	5260	20	-32.34	-25	Pass
NVNT	n20	5260	40	-45.64	-40	Pass
NVNT	n20	5280	-20	-31.85	-25	Pass
NVNT	n20	5280	-40	-45.3	-40	Pass
NVNT	n20	5280	20	-32.39	-25	Pass
NVNT	n20	5280	40	-45.7	-40	Pass
NVNT	n20	5320	-20	-31.79	-25	Pass
NVNT	n20	5320	-40	-44.87	-40	Pass
NVNT	n20	5320	20	-32.48	-25	Pass
NVNT	n20	5320	40	-45.33	-40	Pass
NVNT	n40	5270	-40	-41.34	-25	Pass
NVNT	n40	5270	-80	-42.62	-40	Pass
NVNT	n40	5270	40	-42.13	-25	Pass
NVNT	n40	5270	80	-44.03	-40	Pass
NVNT	n40	5310	-40	-40.8	-25	Pass
NVNT	n40	5310	-80	-42.96	-40	Pass
NVNT	n40	5310	40	-42.62	-25	Pass
NVNT	n40	5310	80	-43.97	-40	Pass
NVNT	ac20	5260	-20	-31.69	-25	Pass
NVNT	ac20	5260	-40	-45.53	-40	Pass
NVNT	ac20	5260	20	-32.4	-25	Pass
NVNT	ac20	5260	40	-46.17	-40	Pass
NVNT	ac20	5280	-20	-31.82	-25	Pass
NVNT	ac20	5280	-40	-46.34	-40	Pass

NVNT	ac20	5280	20	-32.35	-25	Pass
NVNT	ac20	5280	40	-46.87	-40	Pass
NVNT	ac20	5320	-20	-31.79	-25	Pass
NVNT	ac20	5320	-40	-46.14	-40	Pass
NVNT	ac20	5320	20	-32.48	-25	Pass
NVNT	ac20	5320	40	-46.62	-40	Pass
NVNT	ac40	5270	-40	-41.48	-25	Pass
NVNT	ac40	5270	-80	-42.39	-40	Pass
NVNT	ac40	5270	40	-42.19	-25	Pass
NVNT	ac40	5270	80	-44.18	-40	Pass
NVNT	ac40	5310	-40	-40.9	-25	Pass
NVNT	ac40	5310	-80	-42.98	-40	Pass
NVNT	ac40	5310	40	-42.78	-25	Pass
NVNT	ac40	5310	80	-44.03	-40	Pass
NVNT	ax20	5260	-20	-31.34	-25	Pass
NVNT	ax20	5260	-40	-45.5	-40	Pass
NVNT	ax20	5260	20	-30.86	-25	Pass
NVNT	ax20	5260	40	-46.19	-40	Pass
NVNT	ax20	5280	-20	-31.65	-25	Pass
NVNT	ax20	5280	-40	-46.12	-40	Pass
NVNT	ax20	5280	20	-30.84	-25	Pass
NVNT	ax20	5280	40	-46.64	-40	Pass
NVNT	ax20	5320	-20	-31.53	-25	Pass
NVNT	ax20	5320	-40	-46	-40	Pass
NVNT	ax20	5320	20	-30.98	-25	Pass
NVNT	ax20	5320	40	-46.45	-40	Pass
NVNT	ax40	5270	-40	-41.66	-25	Pass
NVNT	ax40	5270	-80	-40.6	-40	Pass
NVNT	ax40	5270	40	-42.54	-25	Pass
NVNT	ax40	5270	80	-44.25	-40	Pass
NVNT	ax40	5310	-40	-41.19	-25	Pass
NVNT	ax40	5310	-80	-42.98	-40	Pass
NVNT	ax40	5310	40	-42.74	-25	Pass
NVNT	ax40	5310	80	-44.08	-40	Pass

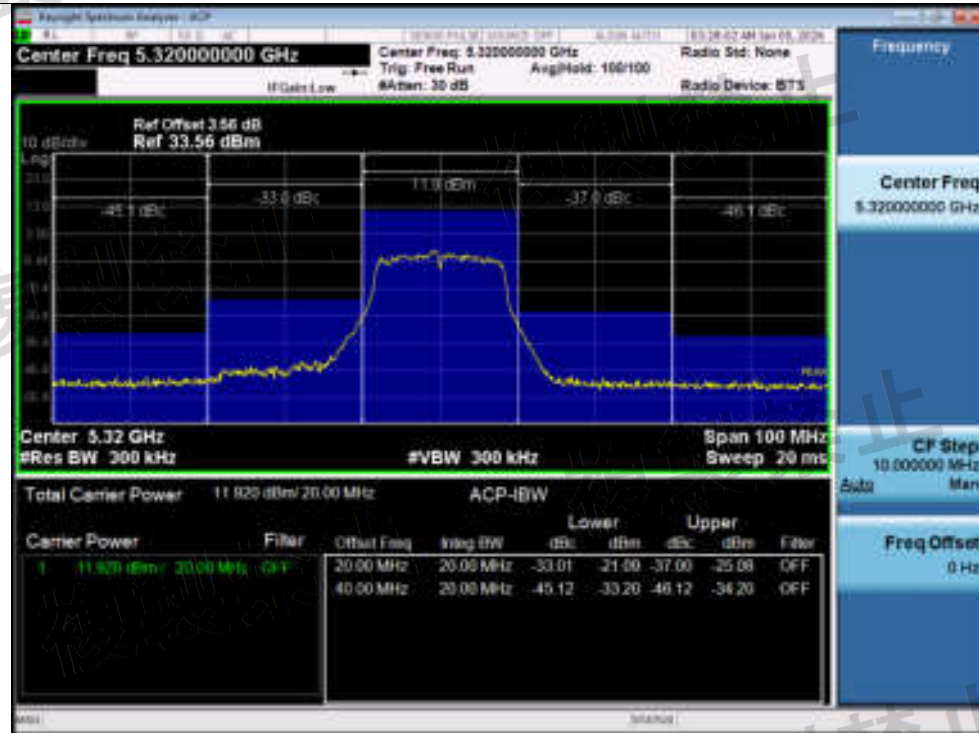
Test Graphs
ACEP NVNT a 5260MHz



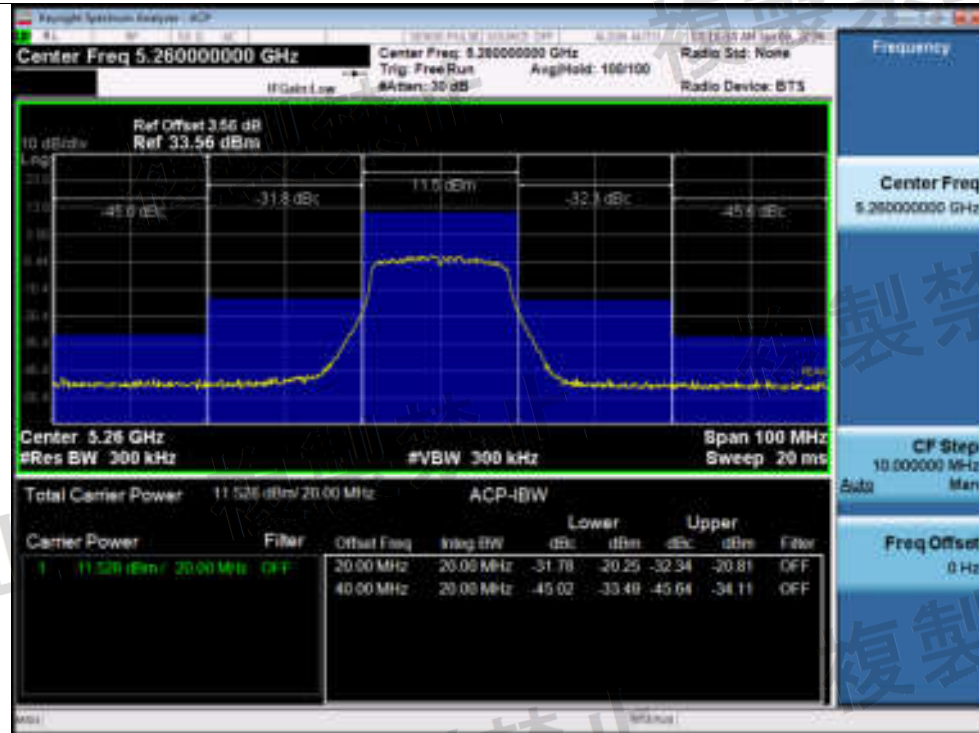
ACEP NVNT a 5280MHz



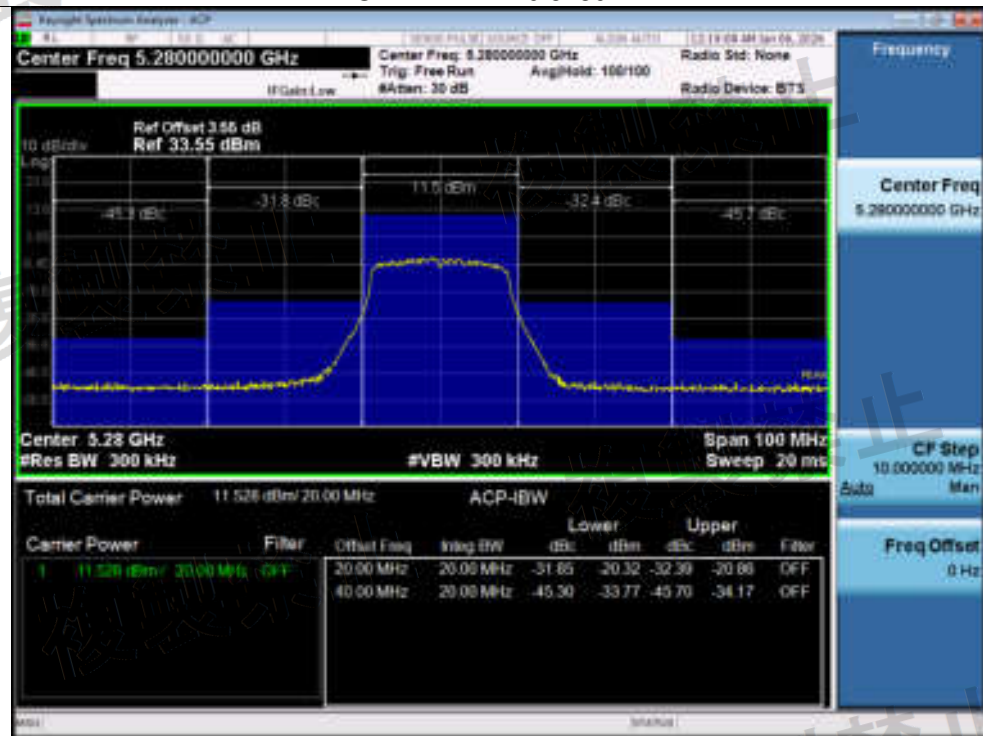
ACEP NVNT a 5320MHz



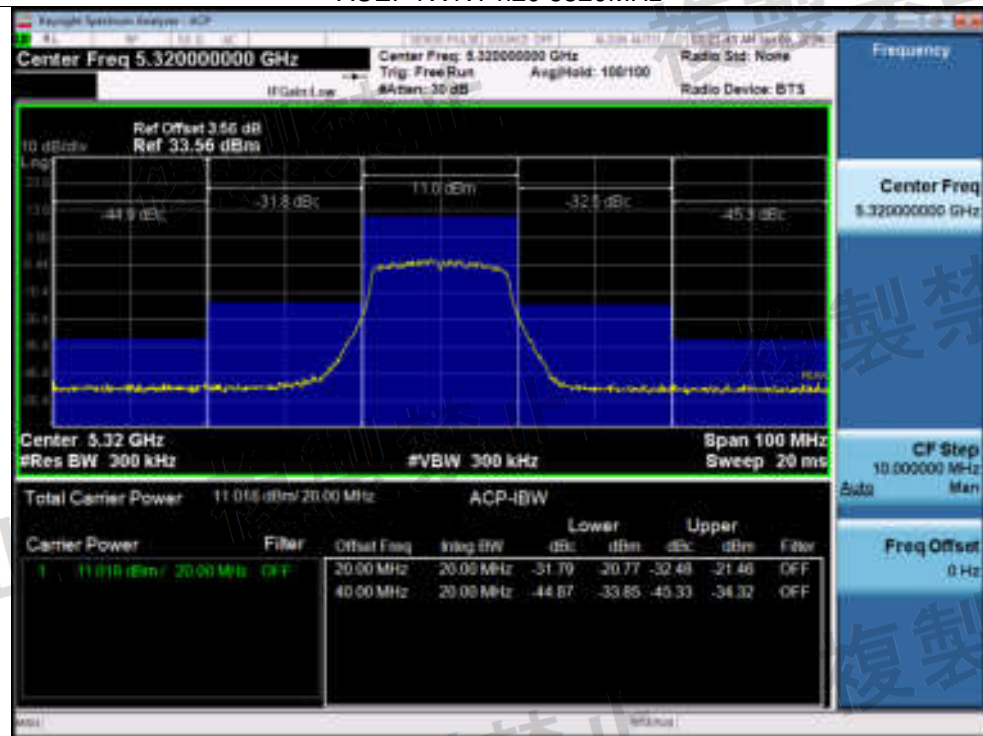
ACEP NVNT n20 5260MHz



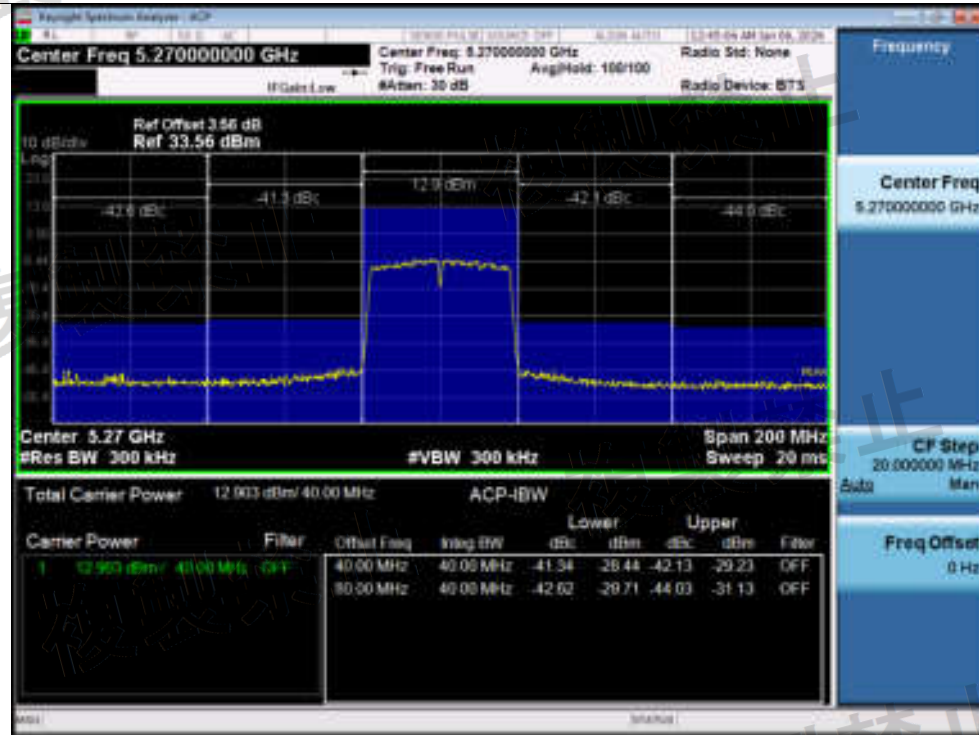
ACEP NVNT n20 5280MHz



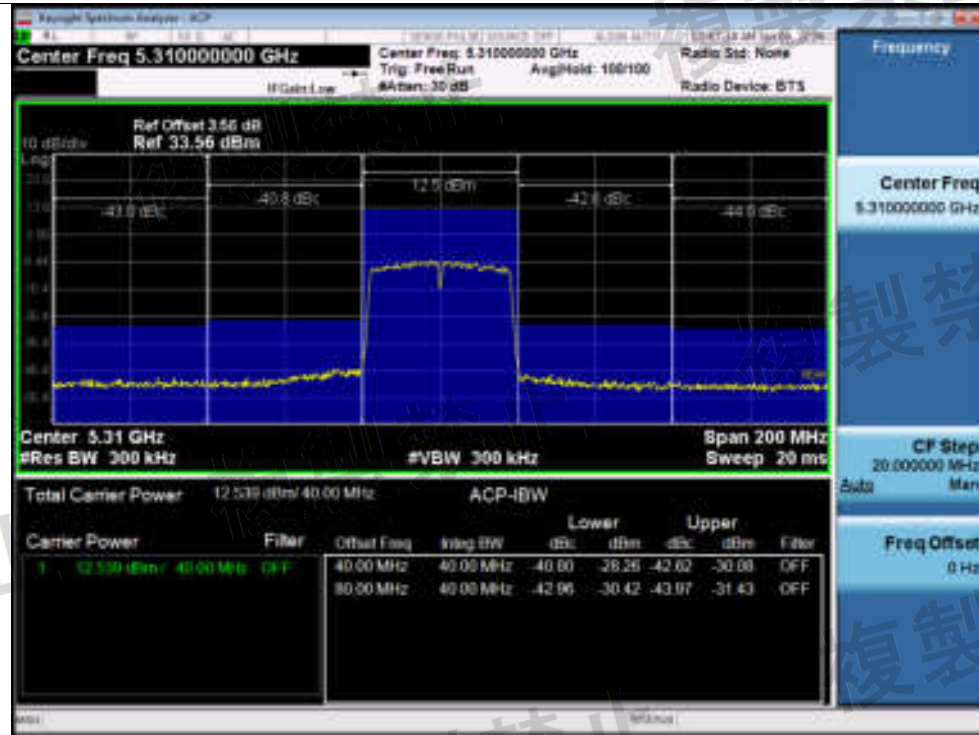
ACEP NVNT n20 5320MHz



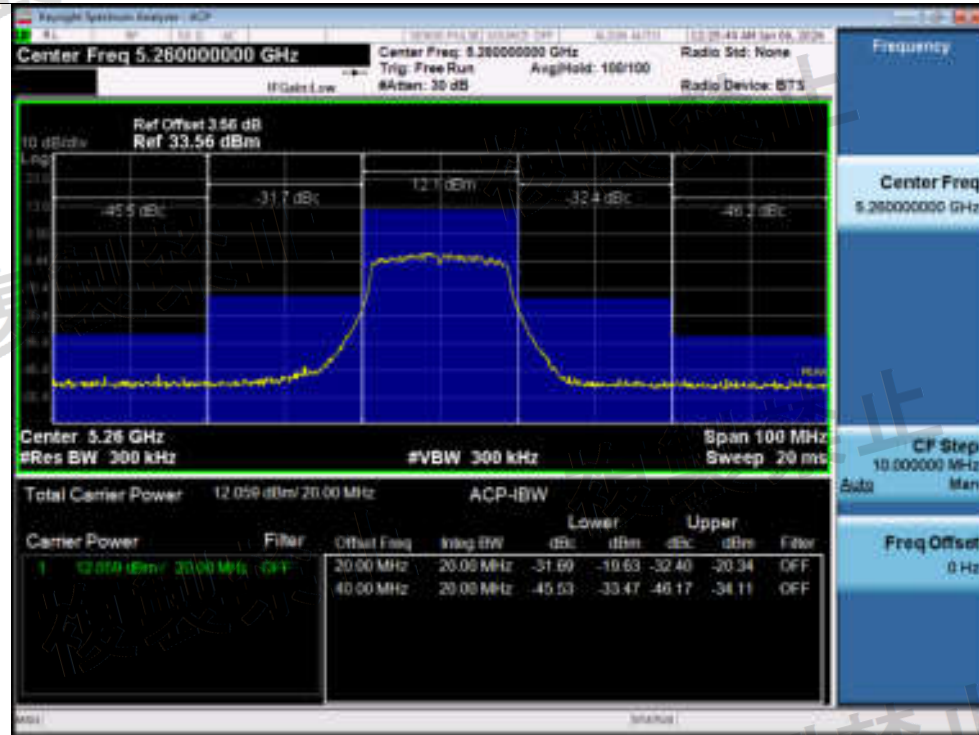
ACEP NVNT n40 5270MHz



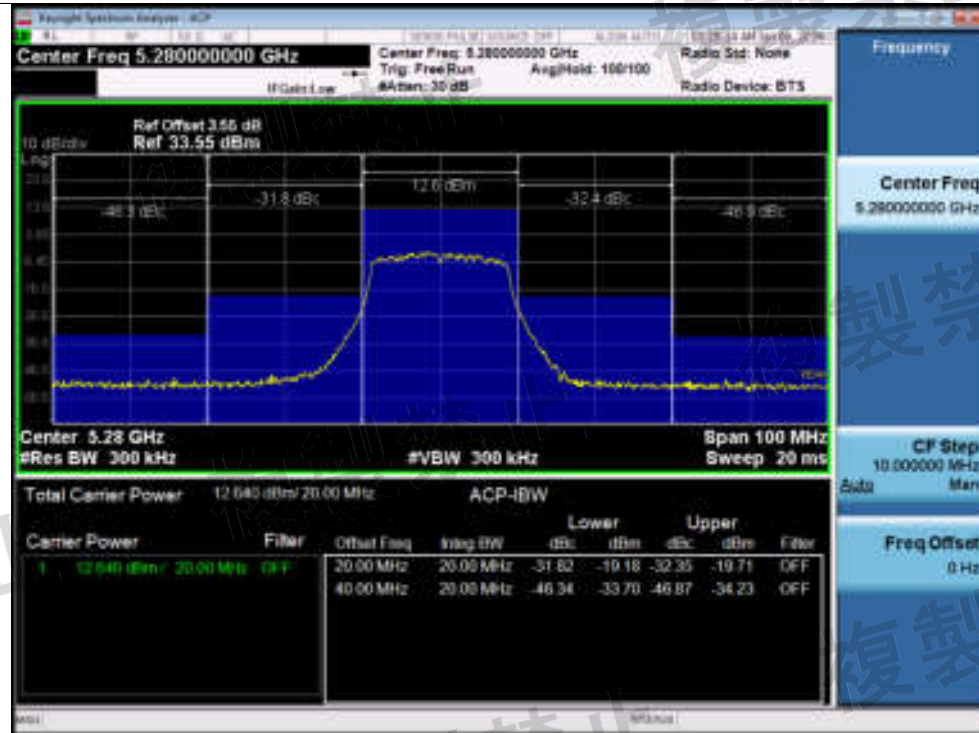
ACEP NVNT n40 5310MHz



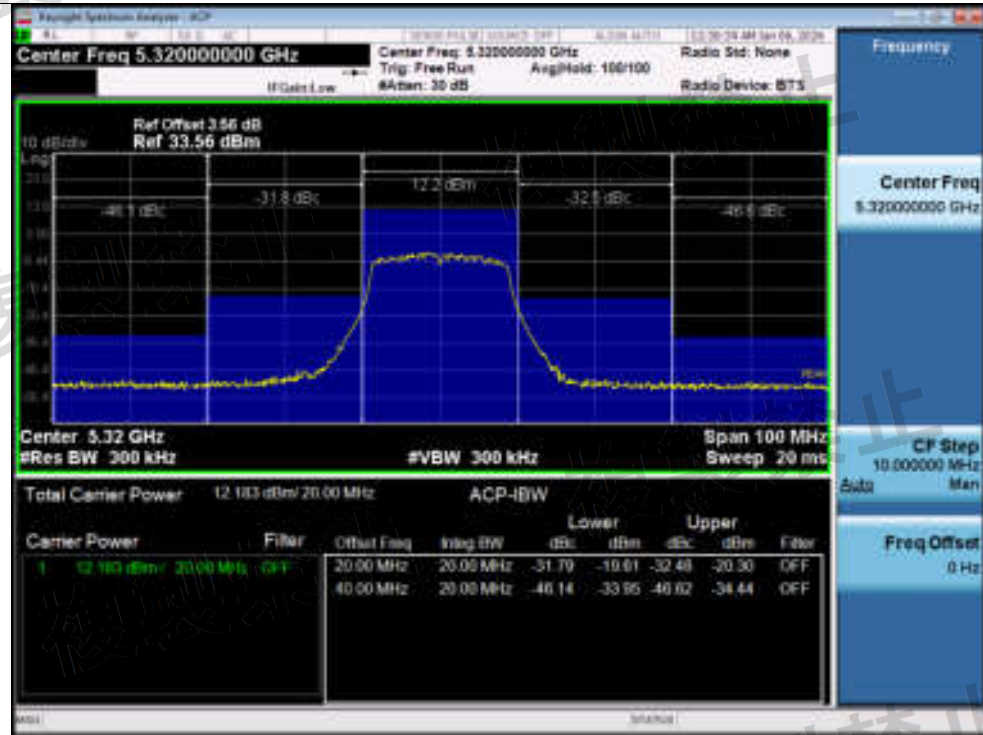
ACEP NVNT ac20 5260MHz



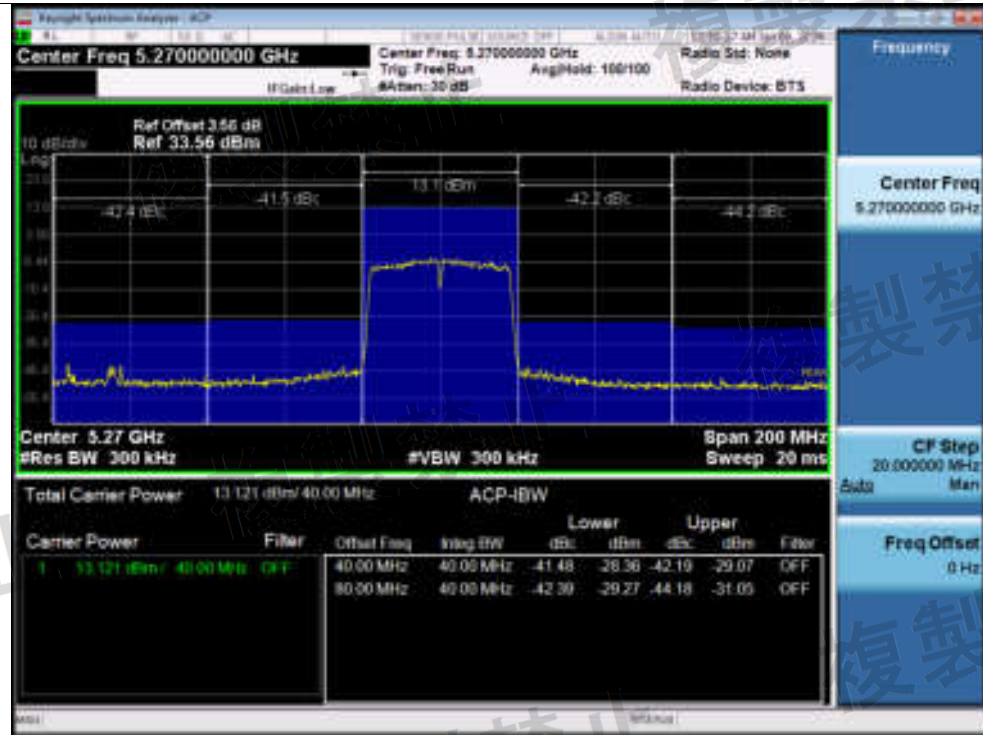
ACEP NVNT ac20 5280MHz



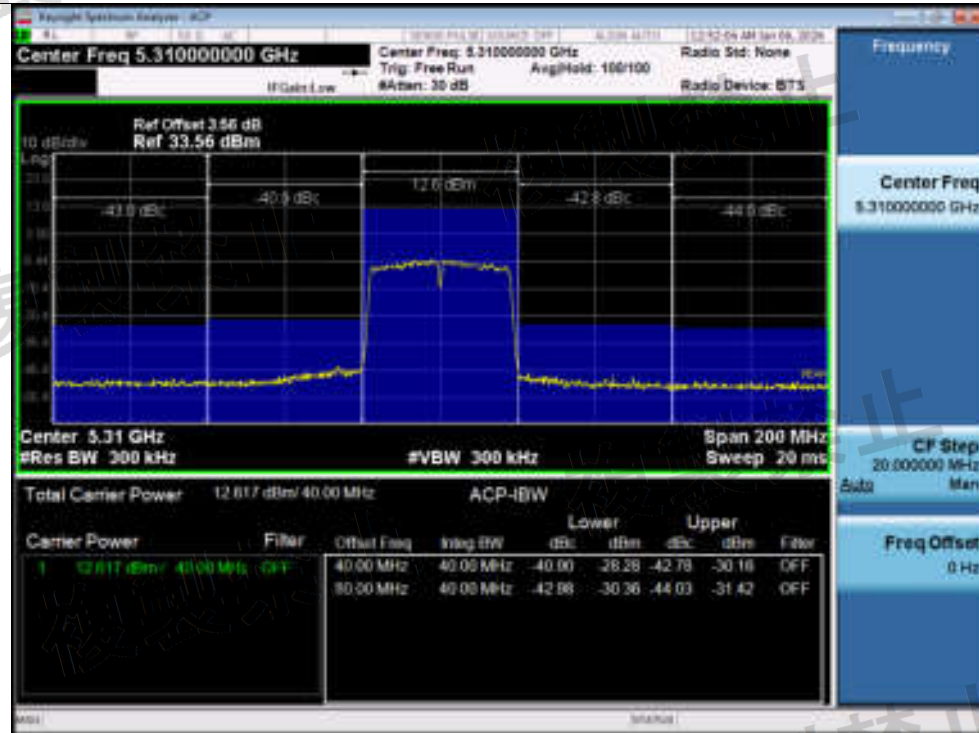
ACEP NVNT ac20 5320MHz



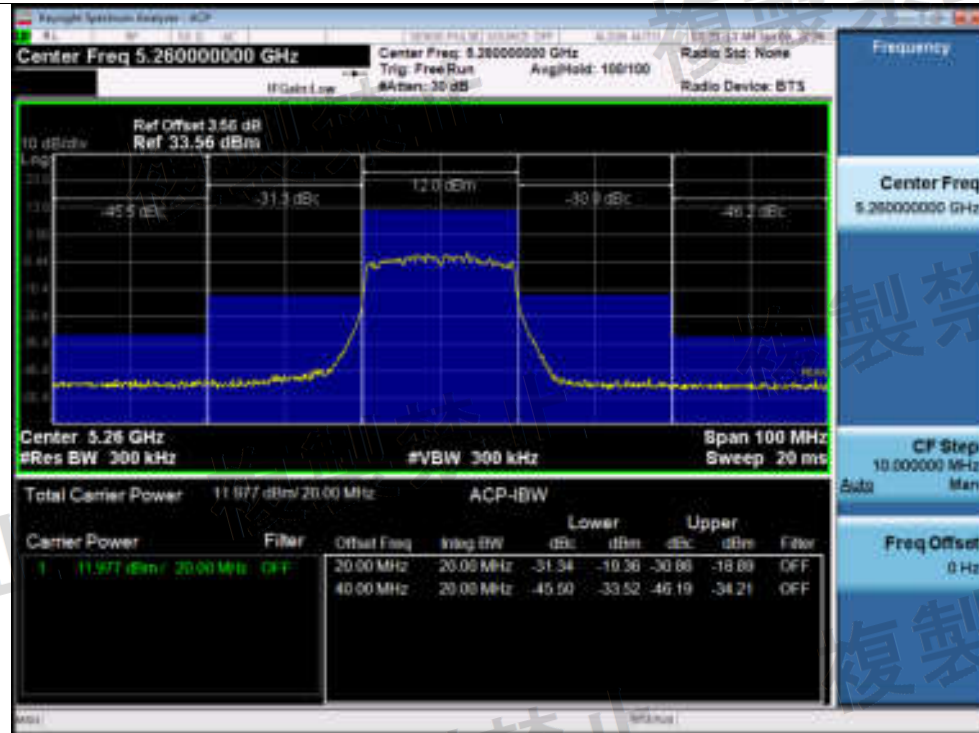
ACEP NVNT ac40 5270MHz



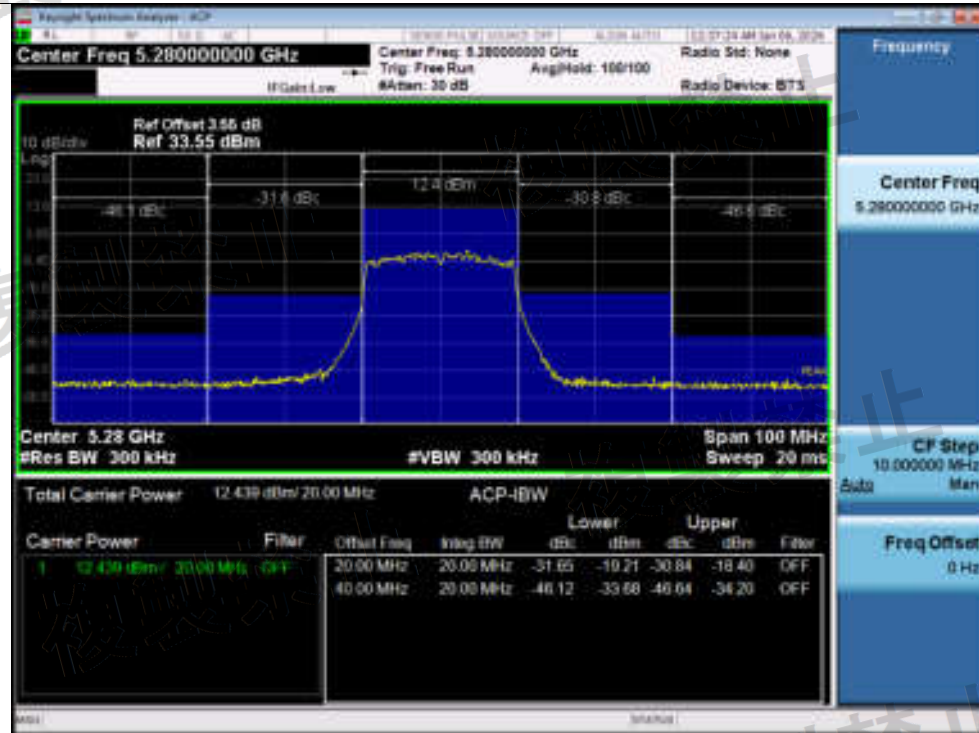
ACEP NVNT ac40 5310MHz



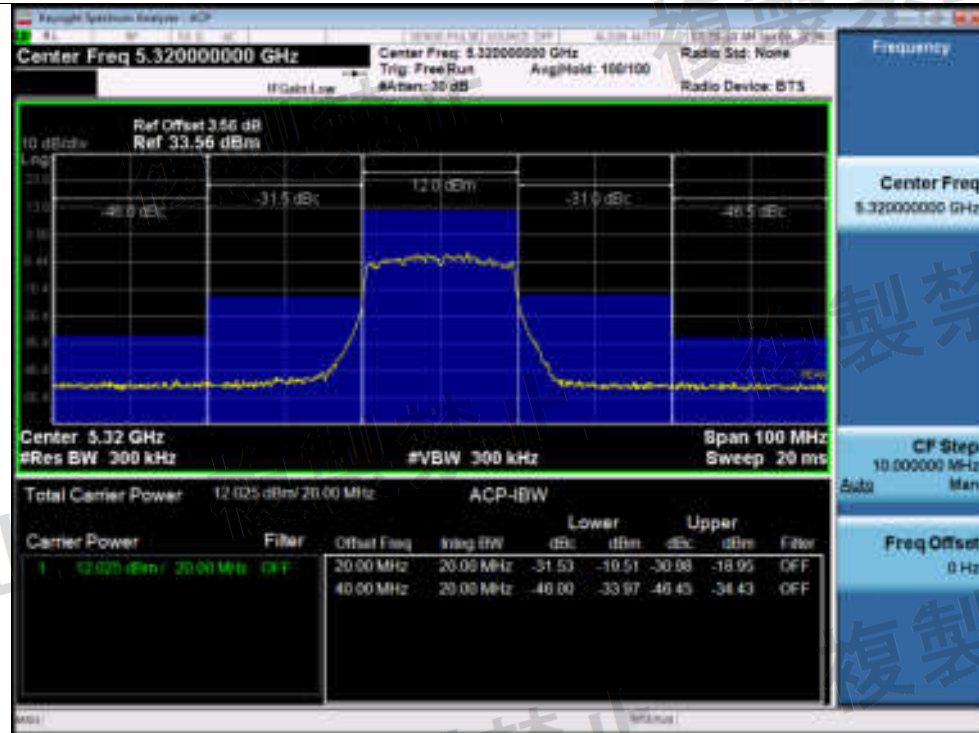
ACEP NVNT ax20 5260MHz



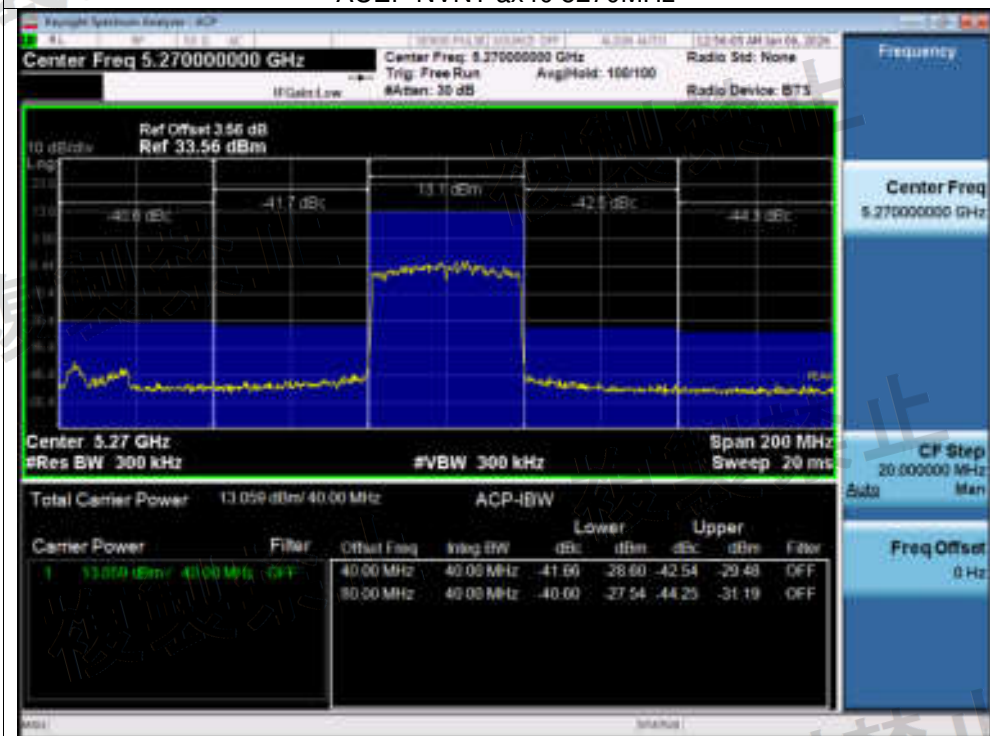
ACEP NVNT ax20 5280MHz



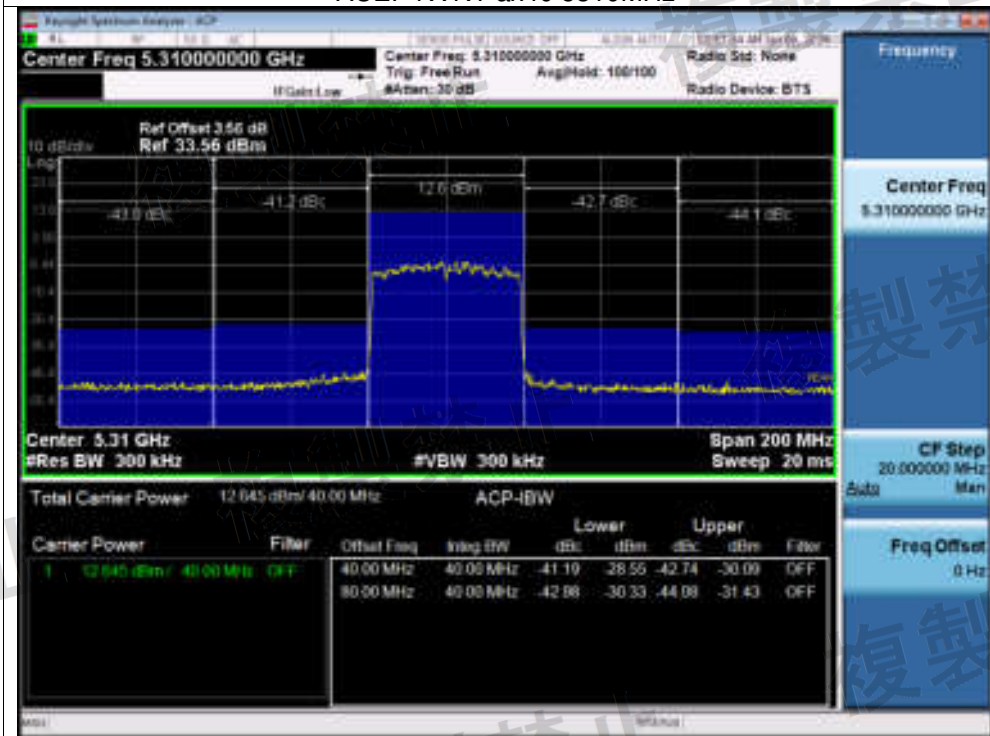
ACEP NVNT ax20 5320MHz



ACEP NVNT ax40 5270MHz

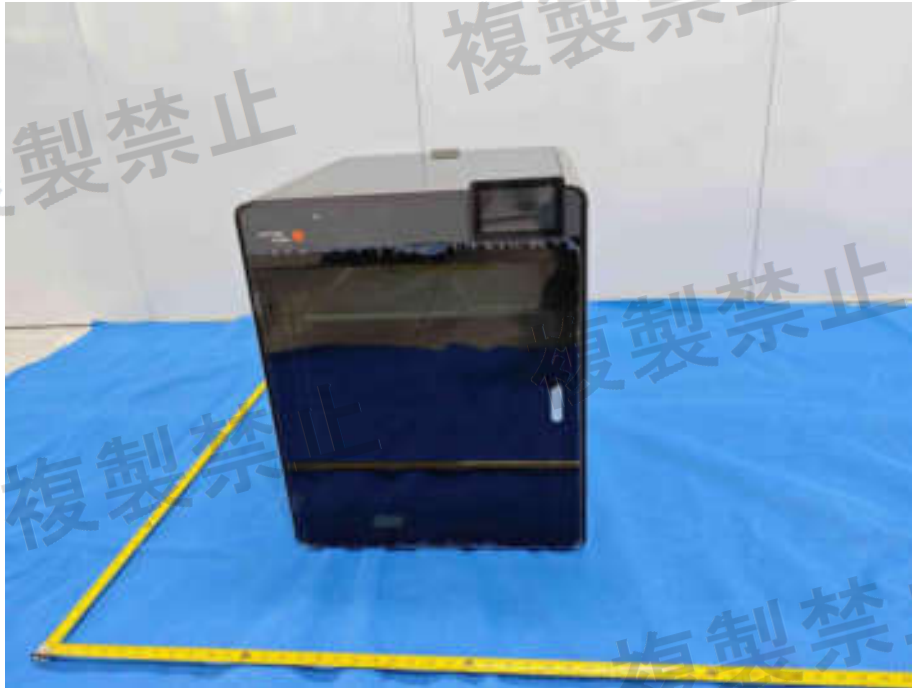


ACEP NVNT ax40 5310MHz



16. EUT Photographs

EUT Photo 1



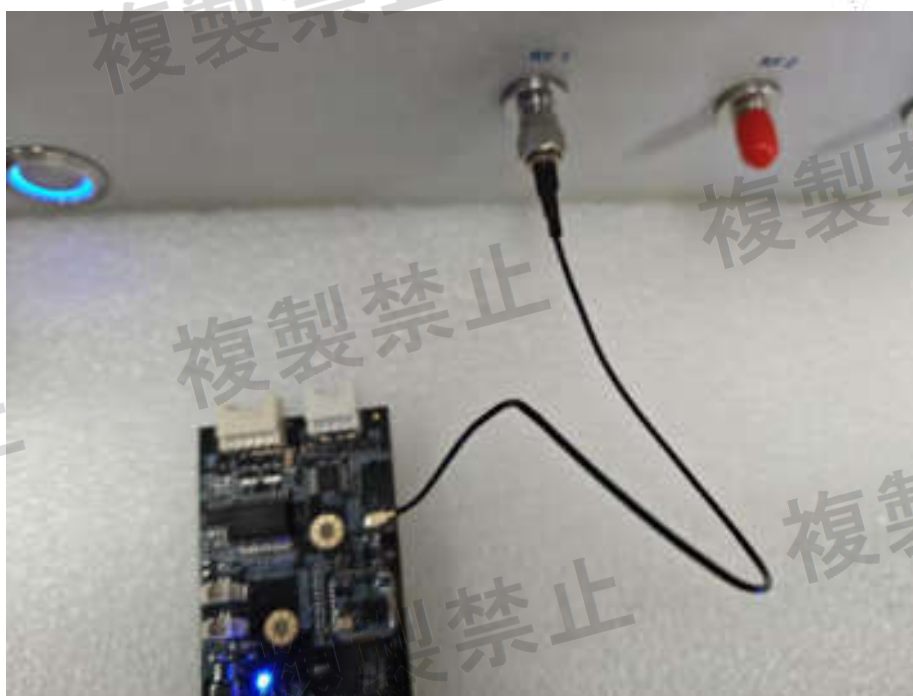
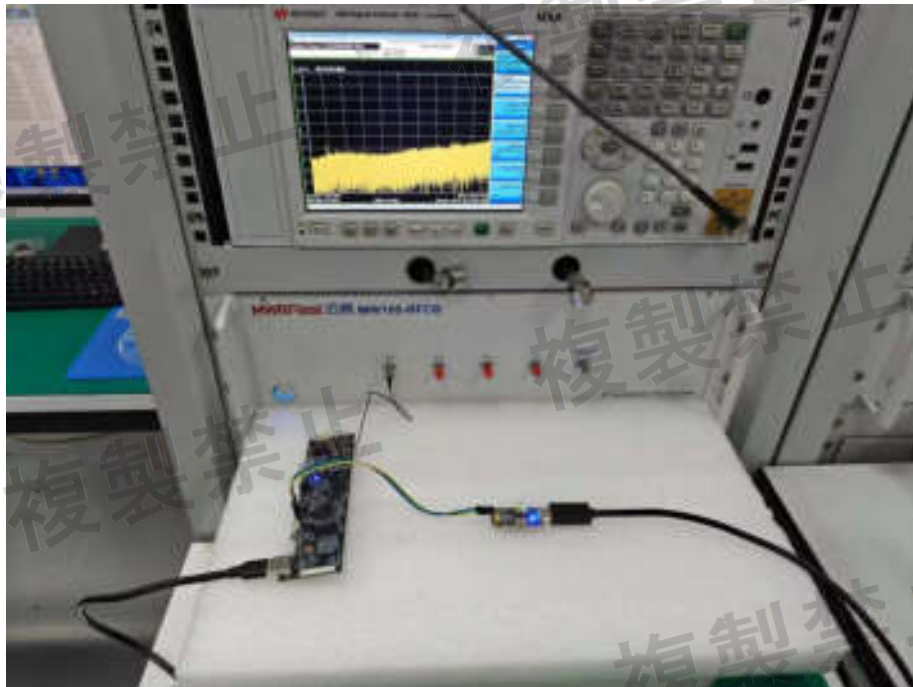
EUT Photo 2



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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Website: <http://www.chnbctc.com>

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***** END *****