

TEST REPORT

Report No.: BCTC2508685576-5E

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Product Name: Tablet

Test Model: C107

Tested Date: 2025-09-03 to 2025-10-31

Issued Date: 2025-11-05

Shenzhen BCTC Technology Co., Ltd.



Product Name: Tablet

Trademark: N/A

Model/Type Reference: C107
A10, A10PRO, A10L, C109, C108, C109L, C10, C10L, C11, C12, C13, KT1028,
KT1026, KT1016, A10Max, A10S

Prepared For: Shenzhen Efercro Electronic Technology Co., Ltd.

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Manufacturer: Shenzhen Efercro Electronic Technology Co., Ltd.

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Prepared By: Shenzhen BCTC Technology Co., Ltd.

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Community, Nanwan Street, Longgang District, Shenzhen, Guangdong, China

Sample Received Date: 2025-09-01

Sample Tested Date: 2025-09-03 to 2025-10-31

Report No.: BCTC2508685576-5E

Test Standards: ARIB STD-T71 Ver.6.1
Article2 Paragraph 1, item 19-3
MIC Notice No.88 Appendix No.45

Test Results: PASS

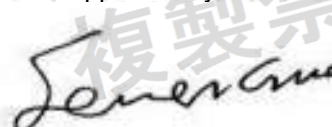
Remark: This is JAPAN RADIO test report.

Tested by:



Eric Yang/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
BCTC2508685576-5E	2025-11-05	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

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:	C107 A10, A10PRO, A10L, C109, C108, C109L, C10, C10L, C11, C12, C13, KT1028, KT1026, KT1016, A10Max, A10S
Model Differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	863C_MB_V2.8
Software Version:	V1.0
Wi-Fi Specification:	802.11a/n/ac/ax (20MHz channel bandwidth) 802.11n/ac/ax (40MHz channel bandwidth) 802.11ac/ax (80MHz channel bandwidth)
Operation Frequency:	5500MHz-5700MHz for 802.11a/n(HT20)/ac20/ax20; 5510MHz-5670MHz for 802.11n(HT40)/ac40/ax40; 5530MHz-5610MHz for 802.11 ac80/ax80.
Rated RF Output Power Density:	802.11a: 1 mW/MHz ; 802.11n20: 1 mW/MHz; 802.11 n40: 1 mW/MHz; 802.11 ac20: 1 mW/MHz; 802.11 ac40: 1 mW/MHz; 802.11 ac80: 0.5 mW/MHz 802.11 ax20: 1 mW/MHz; 802.11 ax40: 1 mW/MHz; 802.11 ax80: 0.5 mW/MHz
Conducted Power Density:	802.11a: 1.21 mW/MHz ; 802.11n20: 0.79 mW/MHz; 802.11 n40: 0.58 mW/MHz; 802.11 ac20: 0.73 mW/MHz; 802.11 ac40: 0.58 mW/MHz; 802.11 ac80: 0.54 mW/MHz 802.11 ax20: 0.71 mW/MHz; 802.11 ax40: 0.56 mW/MHz; 802.11 ax80: 0.56 mW/MHz
Type of Modulation:	OFDMA/OFDM
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac (VHT20)/ax (HE20): NSS1, MCS0-MCS8 802.11ac (VHT40/VHT80)/ax (HE40/HE80):NSS1, MCS0-MCS9
Number Of Channel:	11 channels for 802.11a/n20/ac/ax20 in the 5500-5700MHz band ; 5 channels for 802.11 n40/ac40/ax40 in the 5510-5670MHz band ; 2 channels for 802.11 ac80/ax80 in the 5530-5610MHz band ;
Antenna installation:	FPC antenna
Antenna Gain:	1.68dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 3.8V

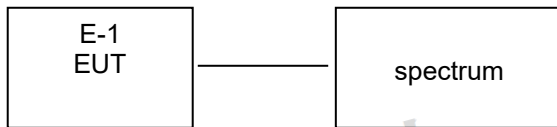


Report No.: BCTC2508685576-5E

Adapter:

Model: G50-US-0502000
Input: 100-240V~, 0.35A Max 50/60Hz
Output: 5.0V 2.0A 10.0W
Shenzhen ChengGuo Technology Co., Ltd
MADE IN CHINA

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	Tablet	N/A	C107	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

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	/	/	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/

802.11a/n-HT20 /ac-VHT20/ax-HE20		802.11n-HT40/ac-VHT40/ax-HE40		802.11ac-VHT80/ax-HE80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
120	5600	118	5590	122	5610
140	5700	134	5670	/	/

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	CH100	802.11a
Mode 2	CH120	
Mode 3	CH140	
Mode 4	RX	
Mode 5	CH100	802.11n20
Mode 6	CH120	
Mode 7	CH140	
Mode 8	RX	
Mode 9	CH102	802.11n40
Mode 10	CH118	
Mode 11	CH134	
Mode 12	RX	
Mode 13	CH100	802.11ac20/ax20
Mode 14	CH120	
Mode 15	CH140	
Mode 16	RX	
Mode 17	CH102	802.11ac40/ax40
Mode 18	CH118	
Mode 19	CH134	
Mode 20	RX	
Mode 21	CH106	802.11ac80/ax80
Mode 22	CH122	
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	3.8V	4.18V	3.42V
Voltage Variation (%)	0%	+10%	-10%

Note:

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

During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, $\pm 10\%$ 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	AIC8800DCDW_wifi_test		
Frequency	5500 MHz	5600 MHz	5700MHz
Parameters	DEF	DEF	DEF
Frequency	5510 MHz	5590 MHz	5670MHz
Parameters	DEF	DEF	DEF
Frequency	5530 MHz	5610 MHz	/
Parameters	DEF	DEF	/

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Technology Co., Ltd. Address: 101M., Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang Community, Nanwan Street, 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
Temperature & humidity gauge	\	HTC-1	\	Sep.1, 2025	Aug.31, 2026

Calibration laboratory: CCIC(Shenzhen) Co., Ltd

6. RF Shielding Method

Chipset:

The product structure is uses SMD patch process.

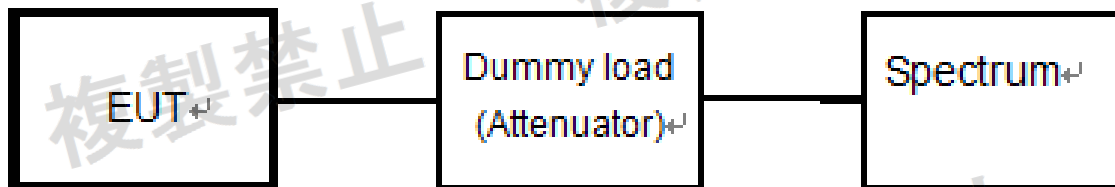
As shown in the picture, If the will be open so the product be damage.



RF module shielding

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.

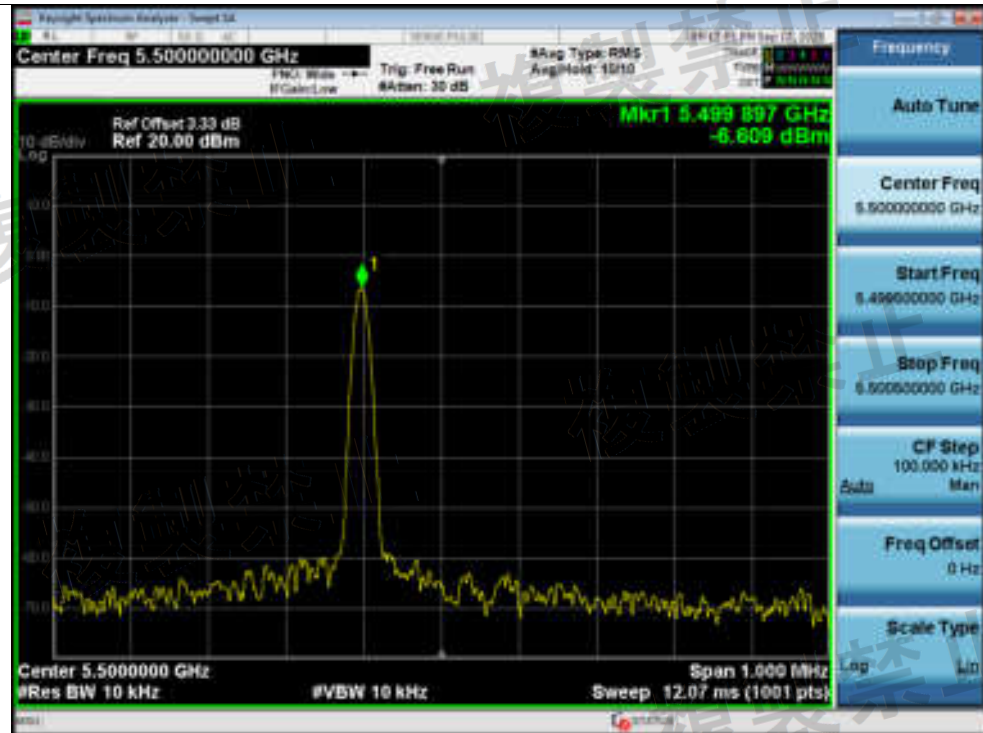
7.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

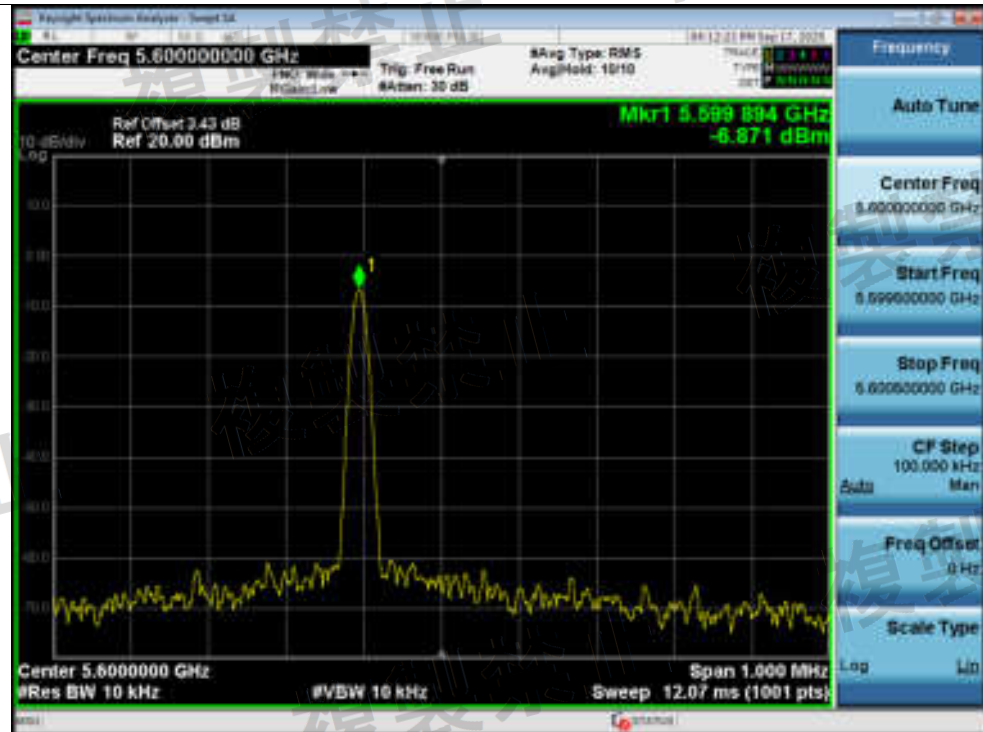
Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	5499.897	-18.73	±20	Pass
NVNT	a	5600	5599.894	-18.93	±20	Pass
NVNT	a	5700	5699.893	-18.77	±20	Pass
NVNT	n40	5510	5509.902	-17.79	±20	Pass
NVNT	n40	5590	5589.978	-3.94	±20	Pass
NVNT	n40	5670	5669.893	-18.87	±20	Pass
NVNT	ax80	5530	5529.893	-19.35	±20	Pass
NVNT	ax80	5610	5609.893	-19.07	±20	Pass

Test Graphs

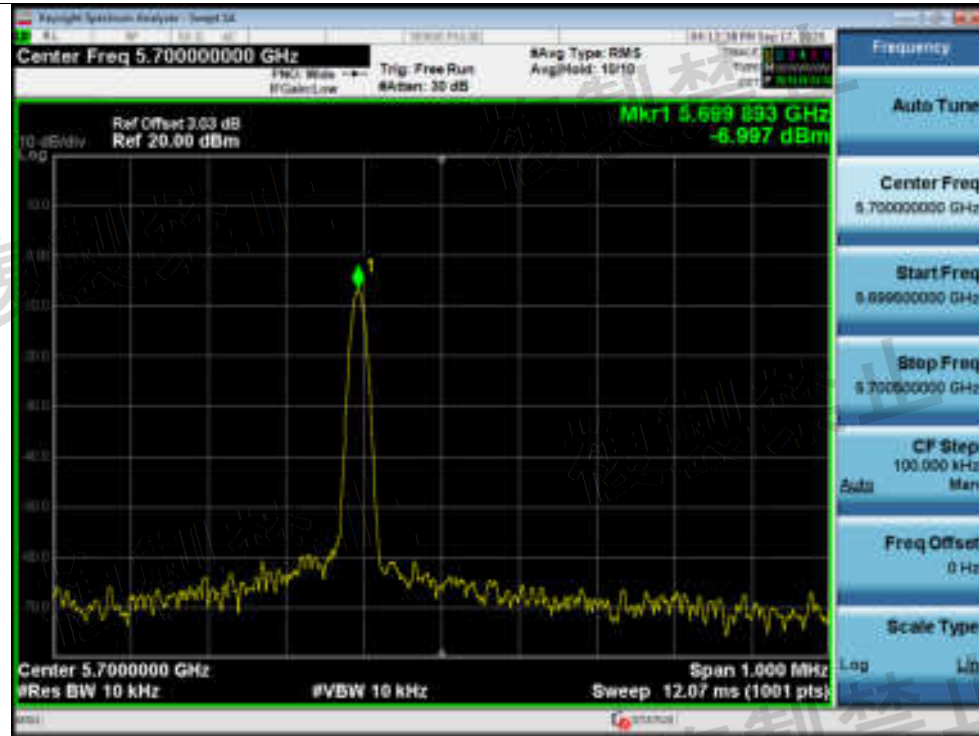
Freq. Error NVNT a 5500MHz Ant1



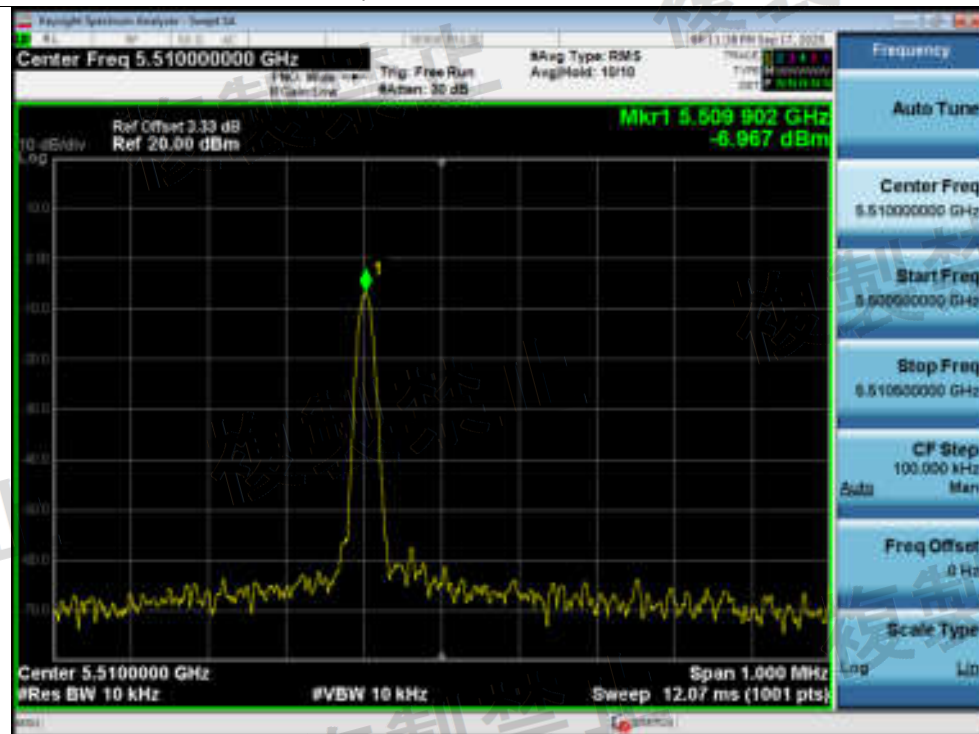
Freq. Error NVNT a 5600MHz Ant1



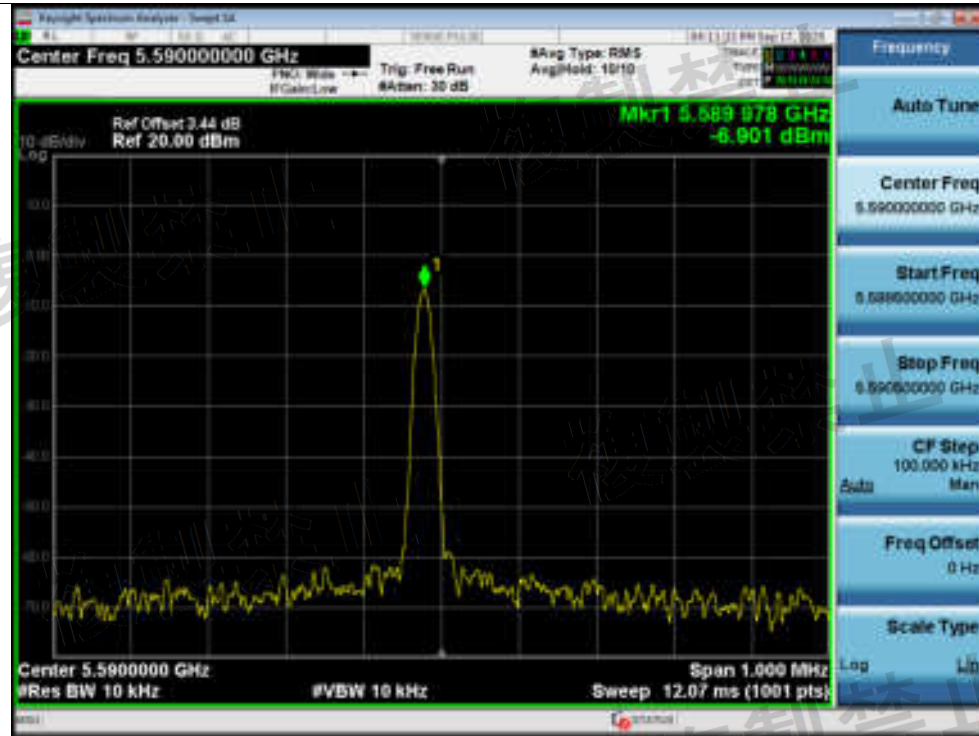
Freq. Error NVNT a 5700MHz Ant1



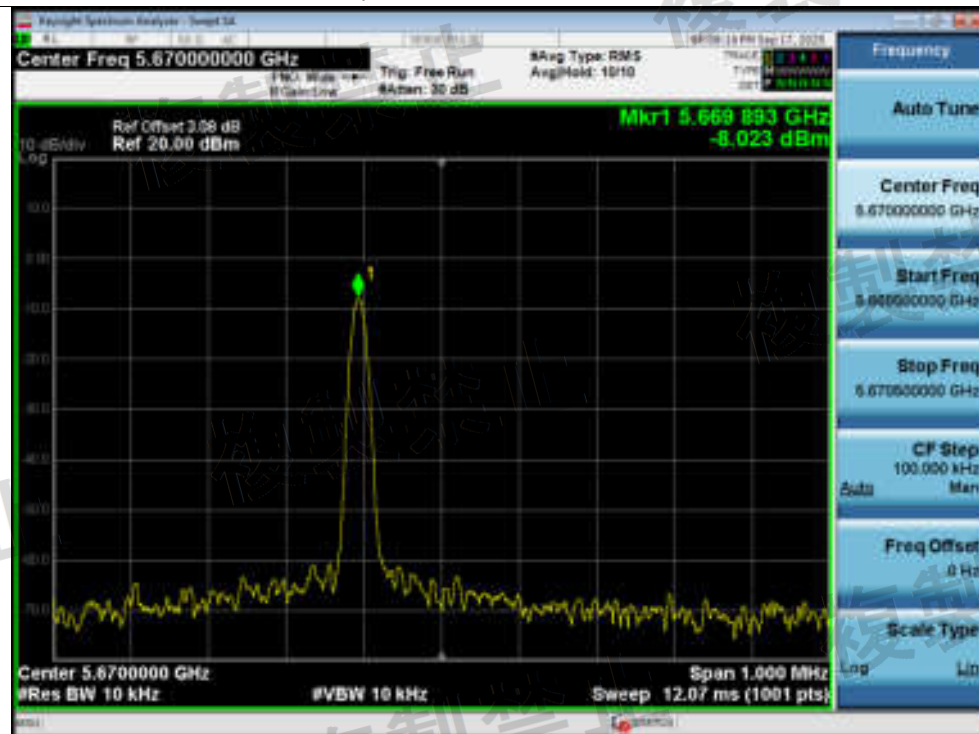
Freq. Error NVNT n40 5510MHz Ant1



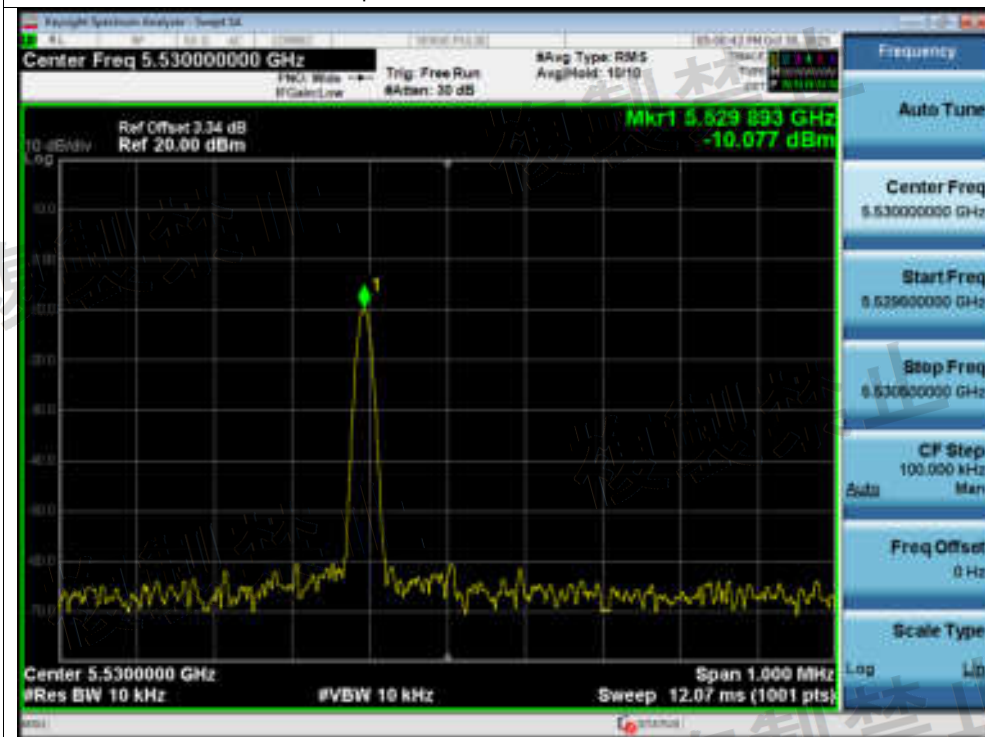
Freq. Error NVNT n40 5590MHz Ant1



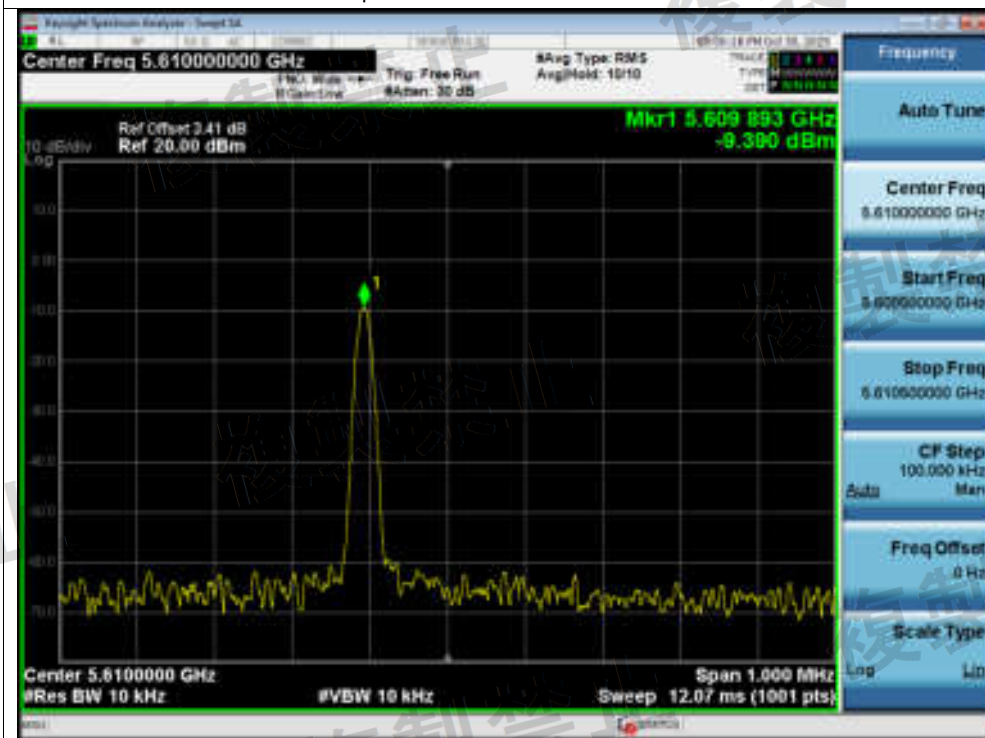
Freq. Error NVNT n40 5670MHz Ant1



Freq. Error NVNT ax80 5530MHz Ant1

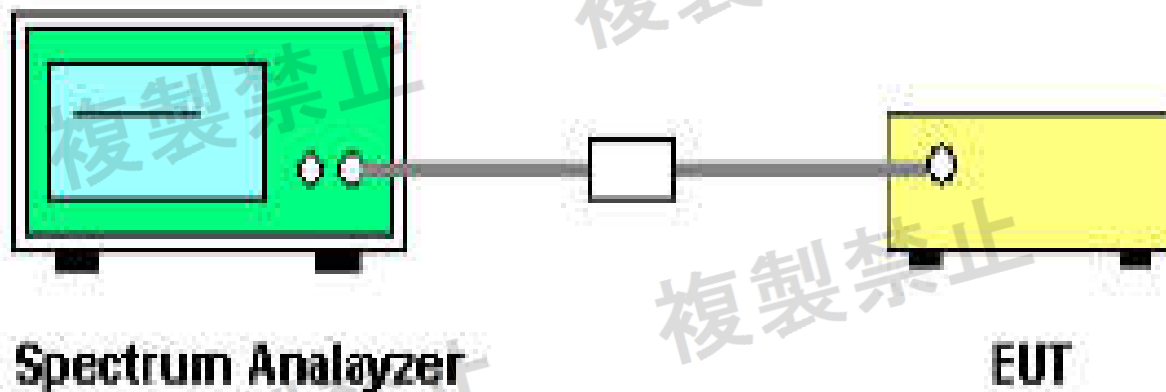


Freq. Error NVNT ax80 5610MHz Ant1



8. Antenna Power

8.1 Block Diagram Of Test Setup



8.2 Limit

Item	Limits
Antenna Power	802.11a20/n20/ac20/ax20 $\leq$ 25mW/MHz: without TPC 802.11n40/ac40/ax40 $\leq$ 12.5mW/MHz: without TPC 802.11ac80/ax80 $\leq$ 6.25mW/MHz: without TPC
Antenna Power tolerance	+50%, -50% (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

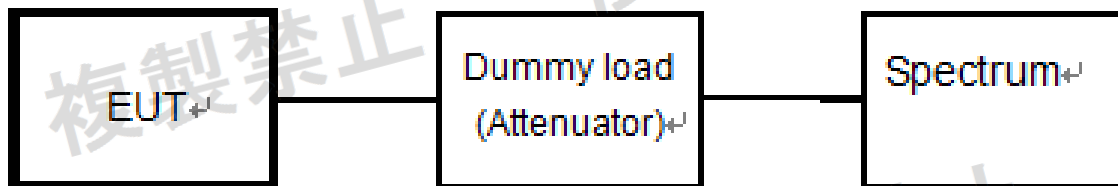
Temperature:	26°C		
Humidity:	54%RH	Test Voltage	DC 3.8V
Condition:	NVNT		

Mode	Frequency (MHz)	Power (dBm/MHz)	Antenna Power (mW/MHz)	Rated power density (mW/MHz)	Antenna Gain (dBi)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Antenna Power Error (%)	Verdict
a	5500	0.84	1.21	1	1.68	1.79	25	21	Pass
a	5600	0.60	1.15	1	1.68	1.69	25	15	Pass
a	5700	0.45	1.11	1	1.68	1.63	25	11	Pass
n20	5500	-1.40	0.72	1	1.68	1.07	25	-28	Pass
n20	5600	-1.31	0.74	1	1.68	1.09	25	-26	Pass
n20	5700	-1.01	0.79	1	1.68	1.17	25	-21	Pass
n40	5510	-2.42	0.57	1	1.68	0.84	12.5	-43	Pass
n40	5590	-2.37	0.58	1	1.68	0.85	12.5	-42	Pass
n40	5670	-2.56	0.55	1	1.68	0.82	12.5	-45	Pass
ac20	5500	-2.03	0.63	1	1.68	0.92	25	-37	Pass
ac20	5600	-1.44	0.72	1	1.68	1.06	25	-28	Pass
ac20	5700	-1.38	0.73	1	1.68	1.07	25	-27	Pass
ac40	5510	-2.86	0.52	1	1.68	0.76	12.5	-48	Pass
ac40	5590	-2.34	0.58	1	1.68	0.86	12.5	-42	Pass
ac40	5670	-2.63	0.55	1	1.68	0.80	12.5	-45	Pass
ac80	5530	-3.12	0.49	0.5	1.68	0.72	6.25	-2	Pass
ac80	5610	-2.66	0.54	0.5	1.68	0.80	6.25	8	Pass
ax20	5500	-2.09	0.62	1	1.68	0.91	25	-38	Pass
ax20	5600	-1.63	0.69	1	1.68	1.01	25	-31	Pass
ax20	5700	-1.47	0.71	1	1.68	1.05	25	-29	Pass
ax40	5510	-2.82	0.52	1	1.68	0.77	12.5	-48	Pass
ax40	5590	-2.51	0.56	1	1.68	0.83	12.5	-44	Pass
ax40	5670	-2.66	0.54	1	1.68	0.80	12.5	-46	Pass
ax80	5530	-3.35	0.46	0.5	1.68	0.68	6.25	-8	Pass
ax80	5610	-2.48	0.56	0.5	1.68	0.83	6.25	12	Pass
Antenna Power Error Limit: +50%, -50% (Base on manufacturer declare antenna power density)									

Note: The EUT has no TPC function.

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

1. Setting of SA is following as: RB: 300kHz / VB:300kHz / SPAN: 3MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

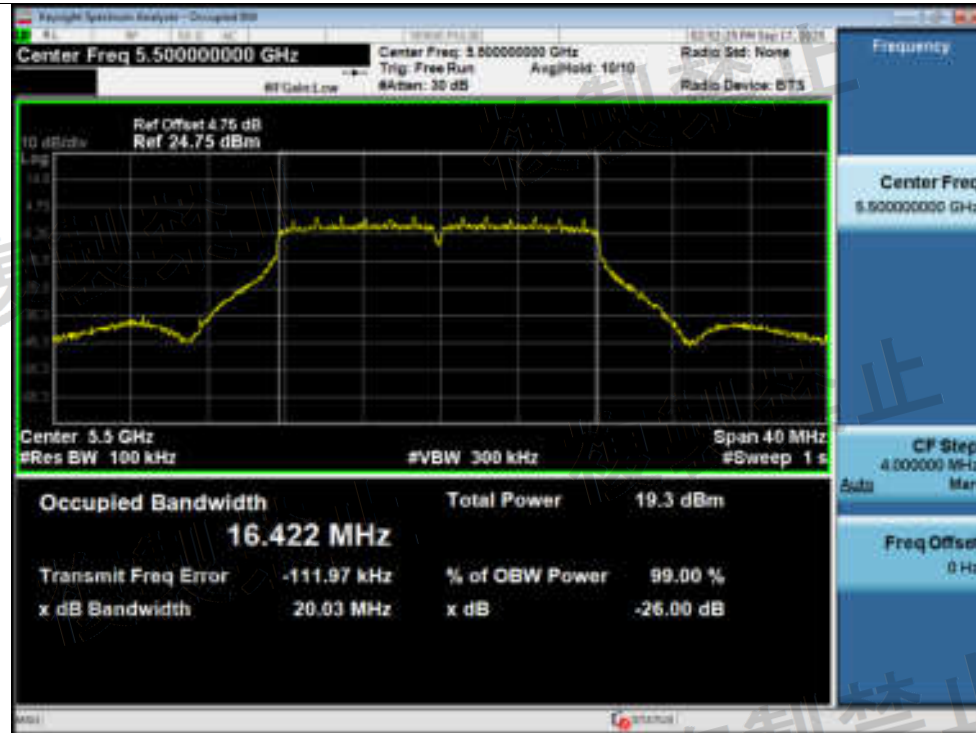
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).

9.4 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5500	16.422	14.621	20	Pass
NVNT	a	5600	16.457	14.614	20	Pass
NVNT	a	5700	16.435	14.625	20	Pass
NVNT	n20	5500	17.596	15.57	20	Pass
NVNT	n20	5600	17.609	15.591	20	Pass
NVNT	n20	5700	17.622	15.592	20	Pass
NVNT	n40	5510	36.048	31.963	40	Pass
NVNT	n40	5590	36.03	31.977	40	Pass
NVNT	n40	5670	36.023	32.195	40	Pass
NVNT	ac20	5500	17.607	15.58	20	Pass
NVNT	ac20	5600	17.61	15.553	20	Pass
NVNT	ac20	5700	17.619	15.548	20	Pass
NVNT	ac40	5510	36.052	32.041	40	Pass
NVNT	ac40	5590	36.05	32.129	40	Pass
NVNT	ac40	5670	36.048	32.031	40	Pass
NVNT	ac80	5530	75.732	69.279	80	Pass
NVNT	ac80	5610	75.584	67.505	80	Pass
NVNT	ax20	5500	18.871	16.815	20	Pass
NVNT	ax20	5600	18.89	16.661	20	Pass
NVNT	ax20	5700	18.88	16.602	20	Pass
NVNT	ax40	5510	37.613	33.218	40	Pass
NVNT	ax40	5590	37.62	33.004	40	Pass
NVNT	ax40	5670	37.618	33.491	40	Pass
NVNT	ax80	5530	77.612	70.533	80	Pass
NVNT	ax80	5610	77.458	69.423	80	Pass

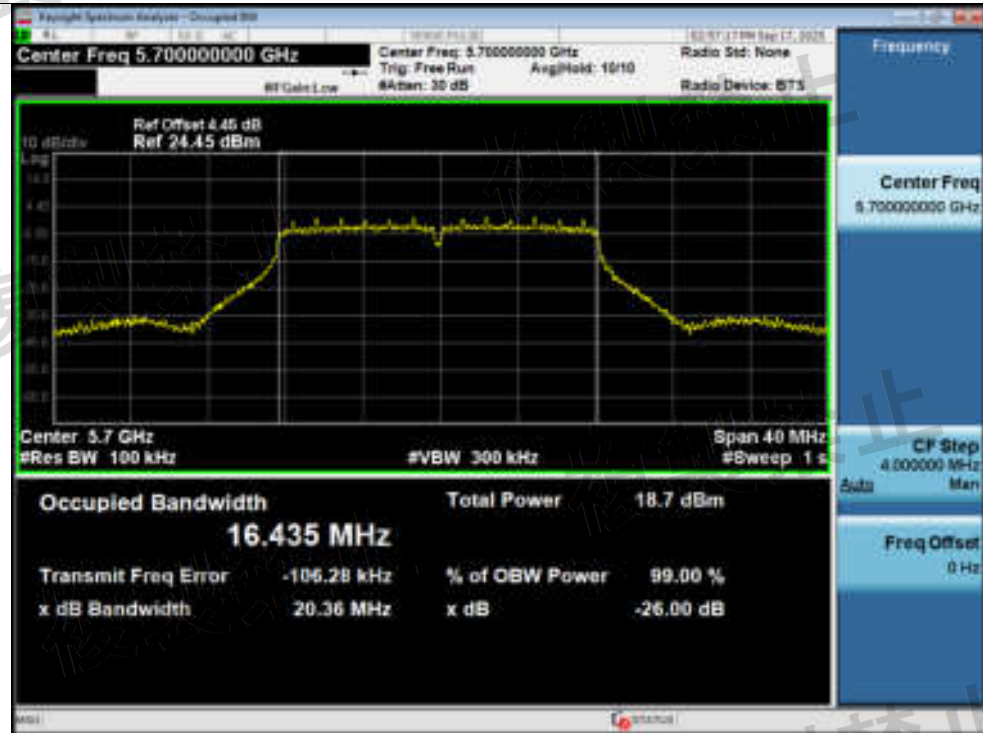
Test Graphs
OBW NVNT a 5500MHz Ant1



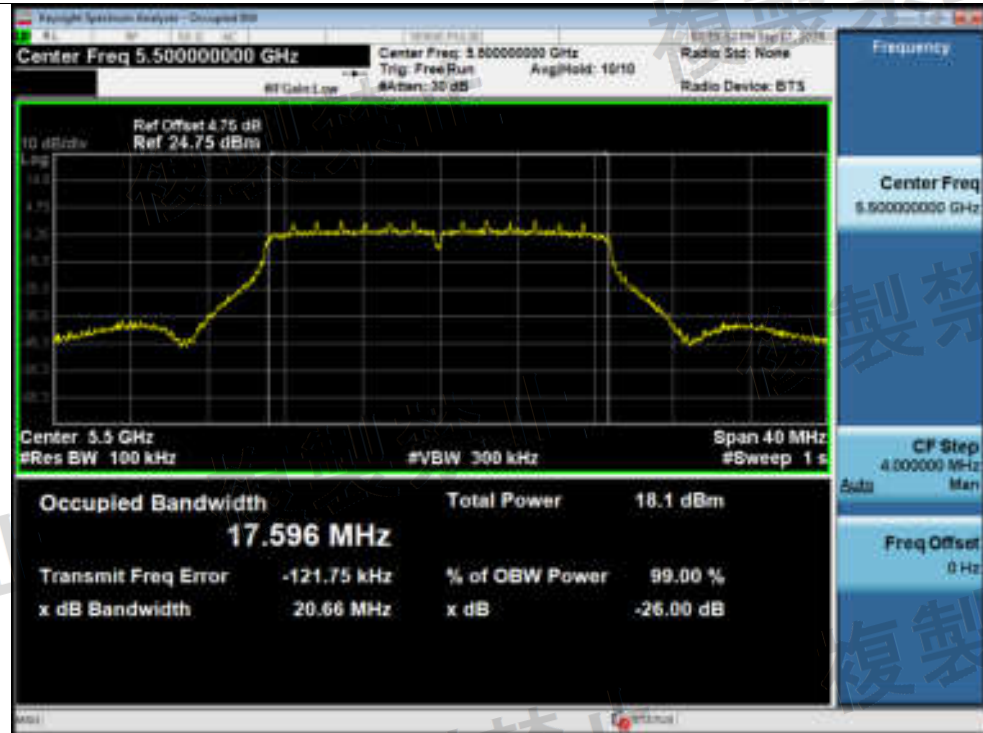
OBW NVNT a 5600MHz Ant1



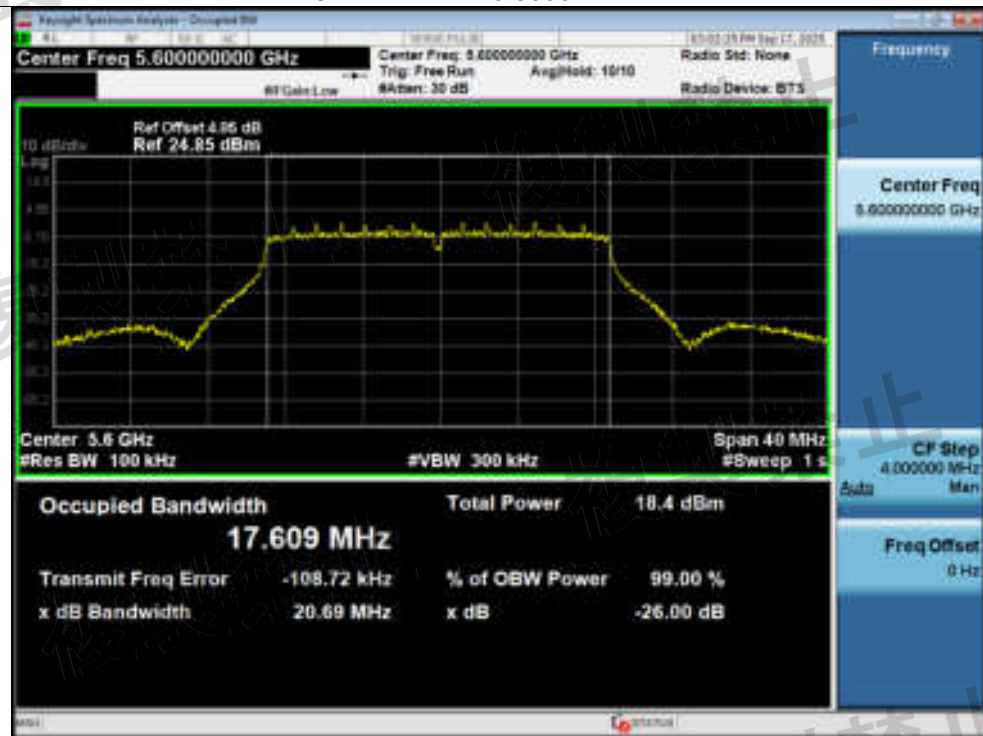
OBW NVNT a 5700MHz Ant1



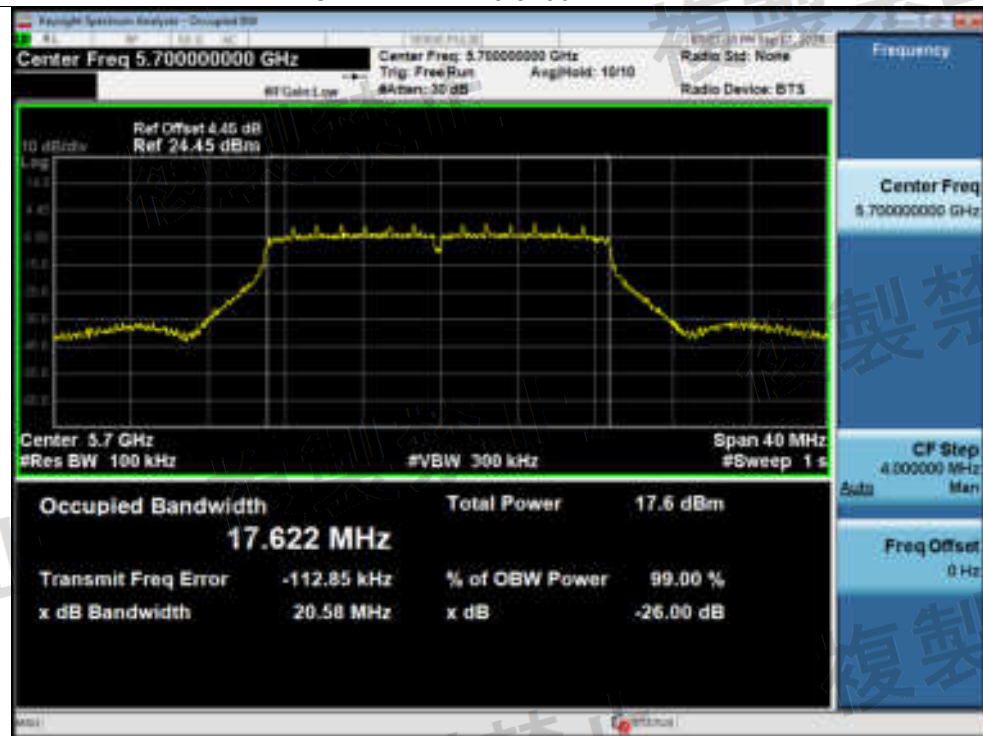
OBW NVNT n20 5500MHz Ant1



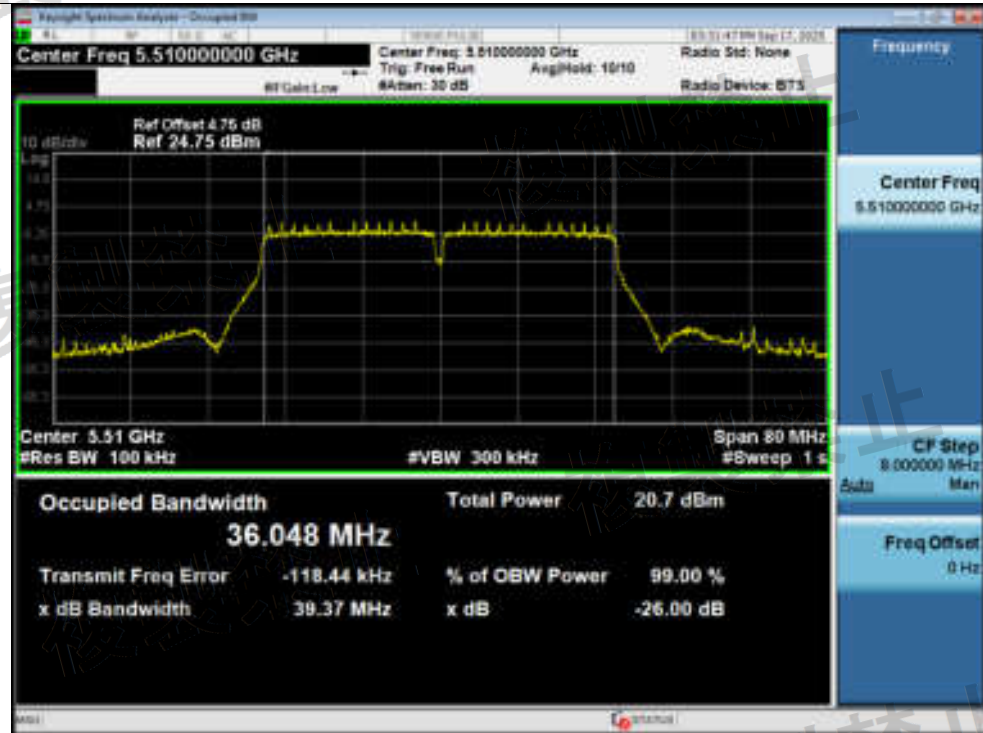
OBW NVNT n20 5600MHz Ant1



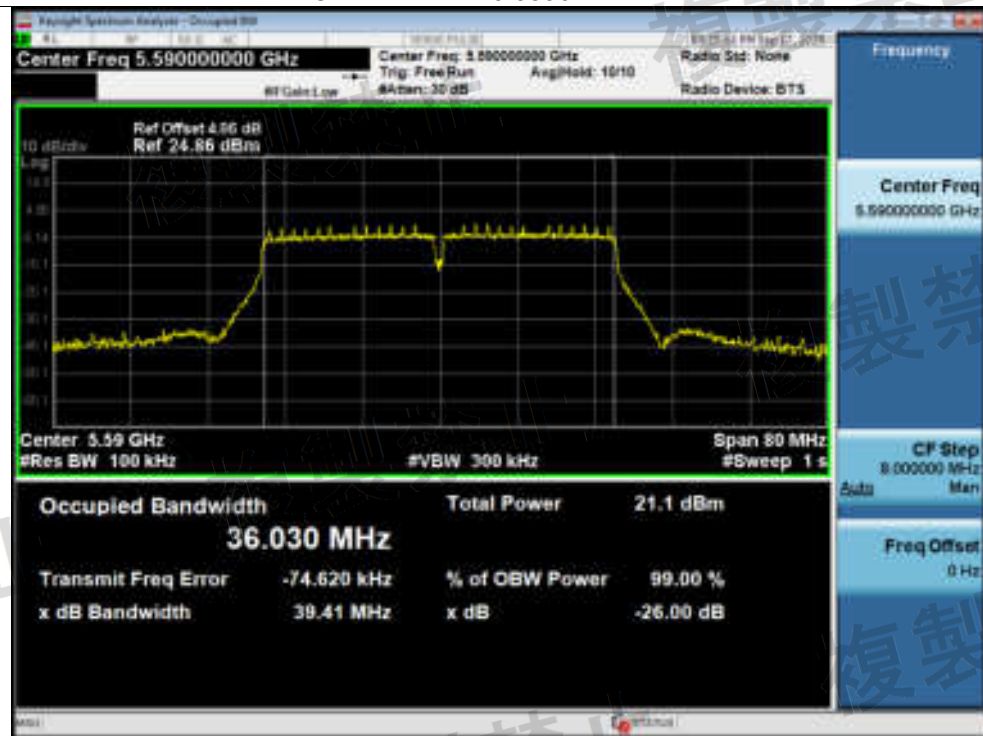
OBW NVNT n20 5700MHz Ant1



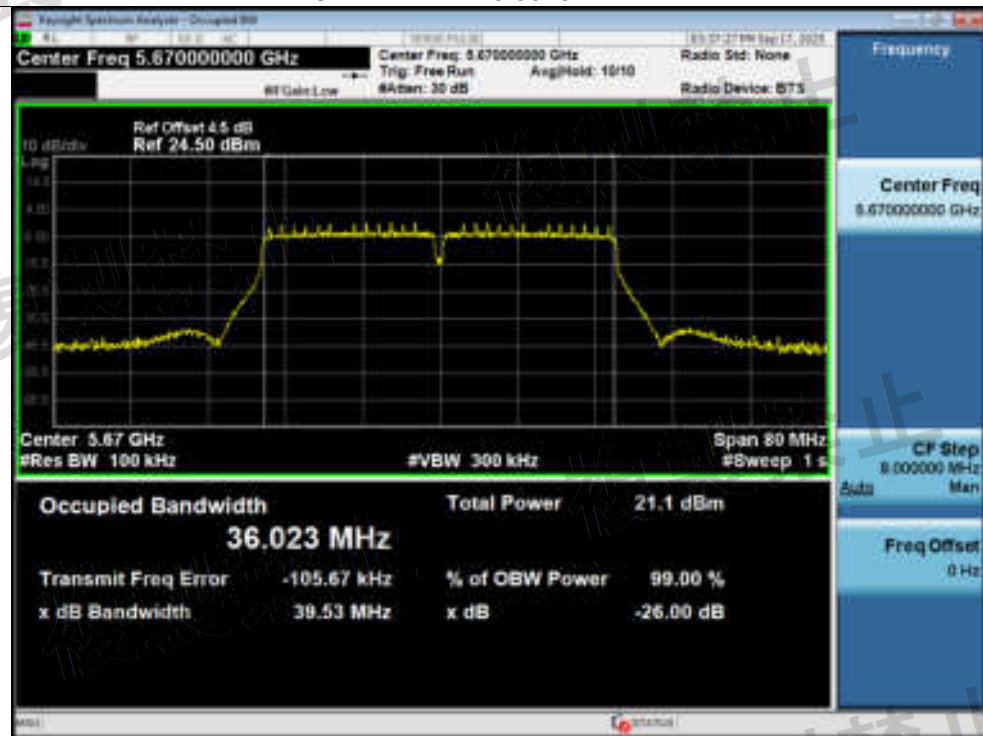
OBW NVNT n40 5510MHz Ant1



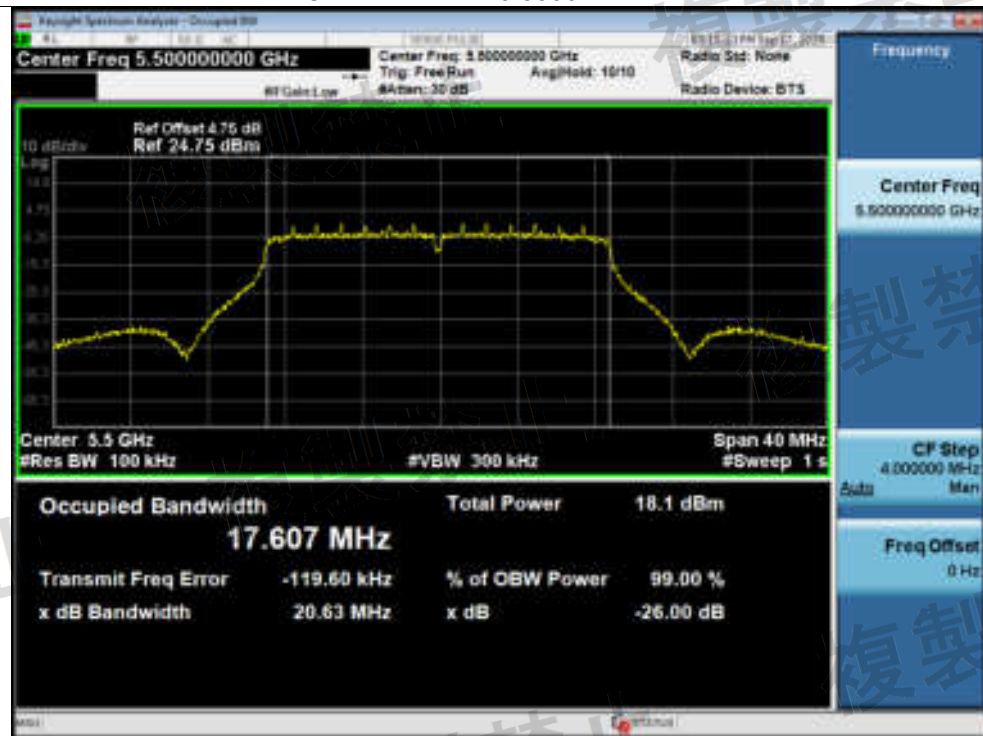
OBW NVNT n40 5590MHz Ant1



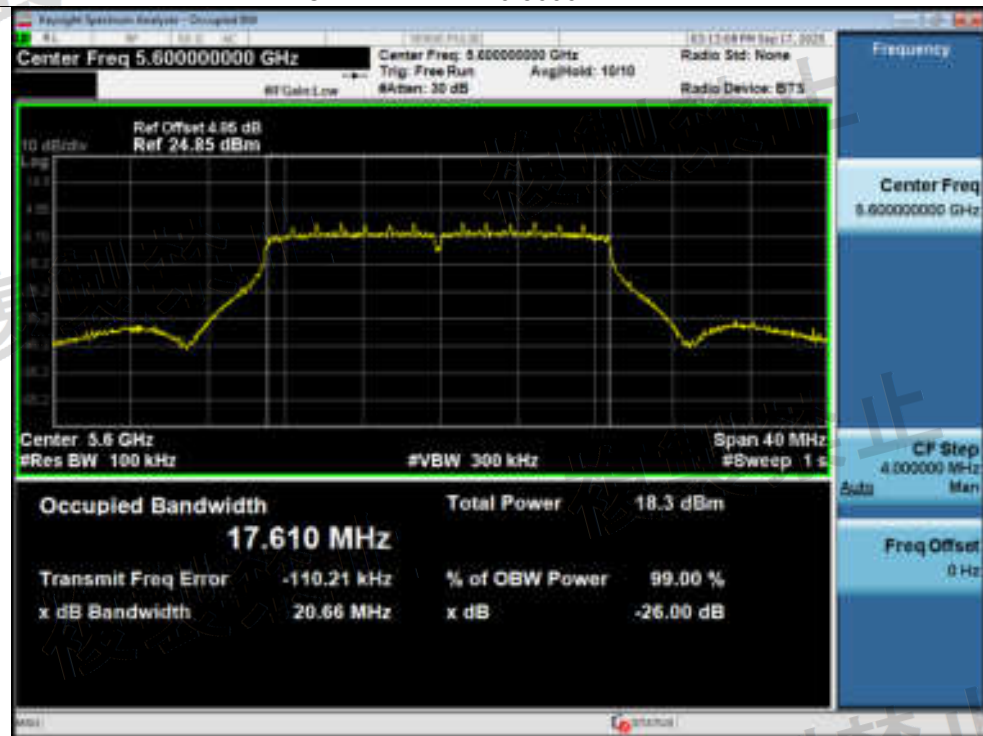
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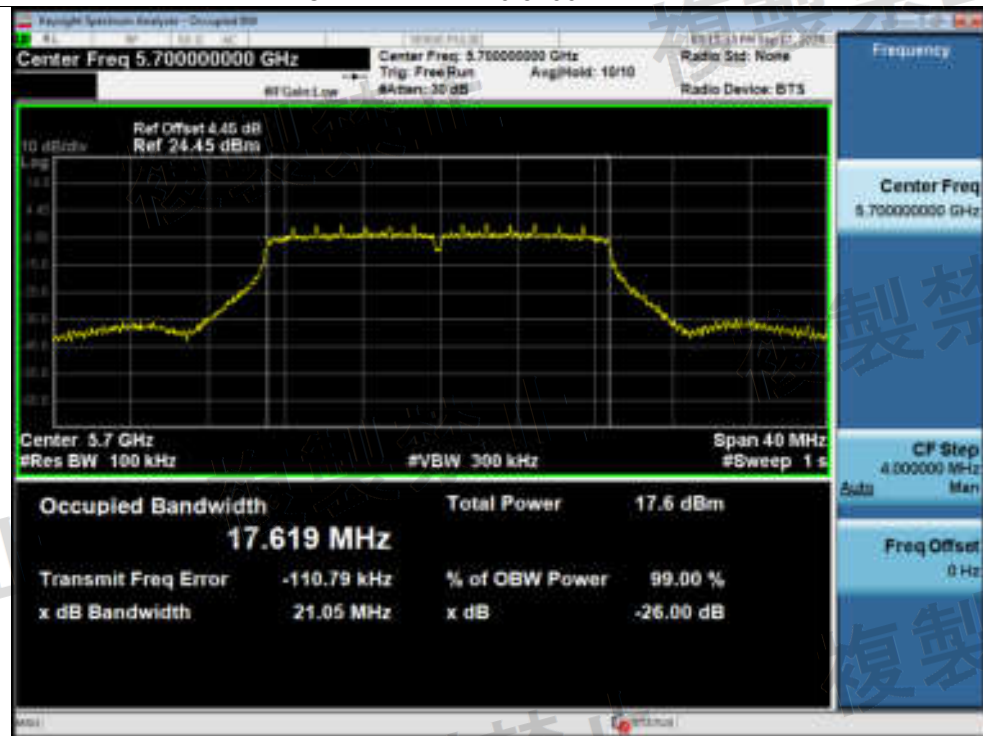
OBW NVNT ac20 5500MHz Ant1



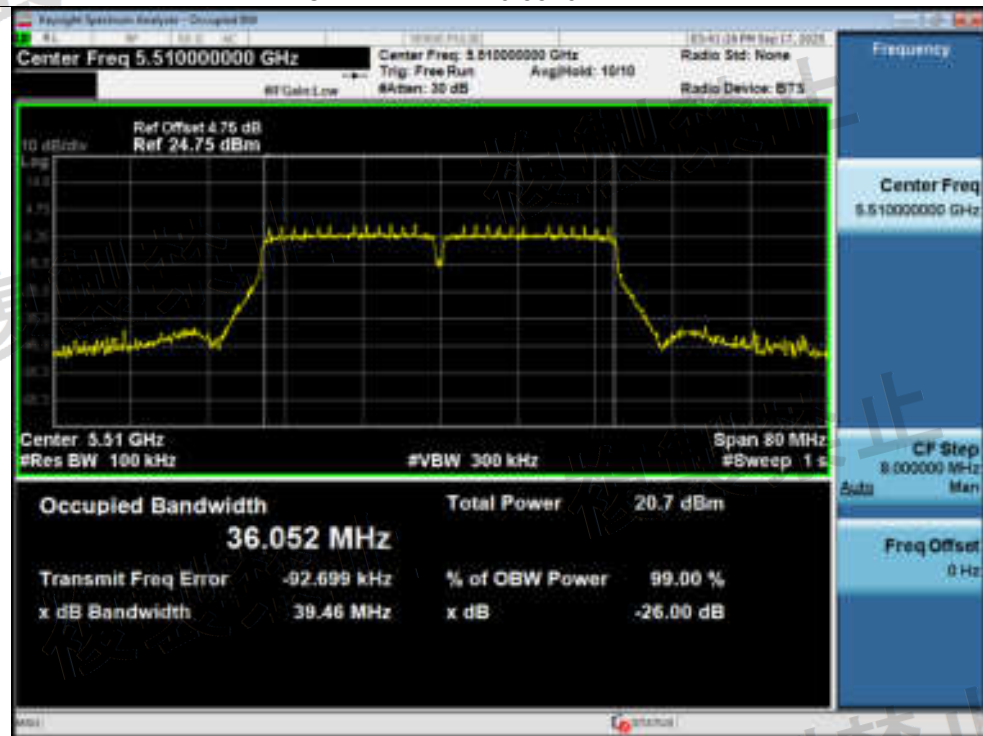
OBW NVNT ac20 5600MHz Ant1



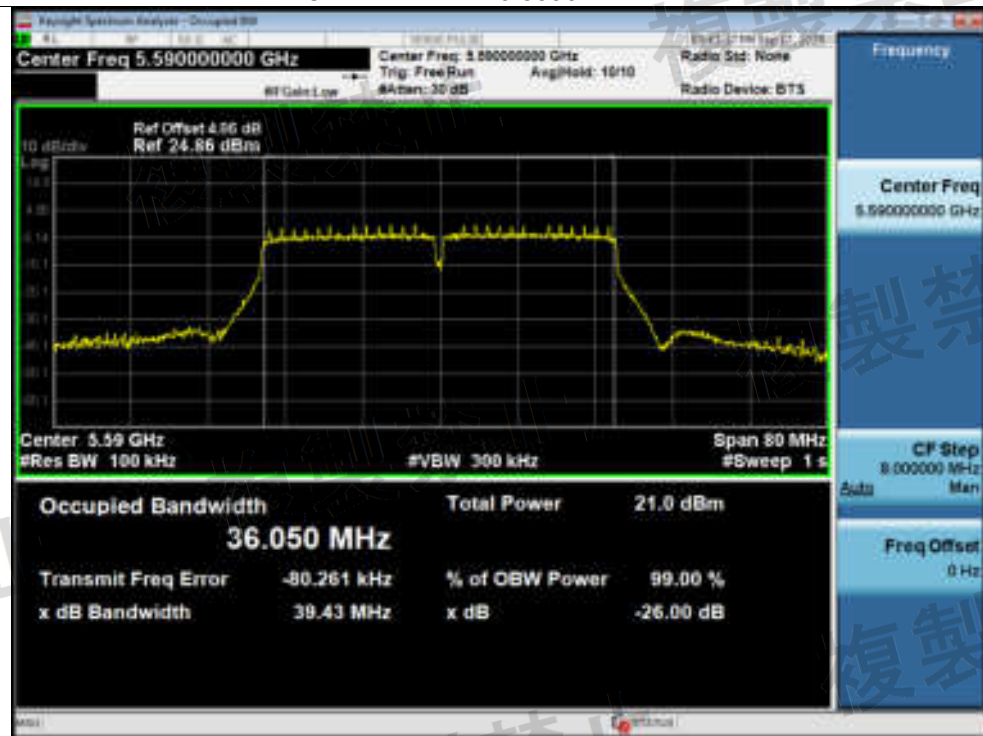
OBW NVNT ac20 5700MHz Ant1



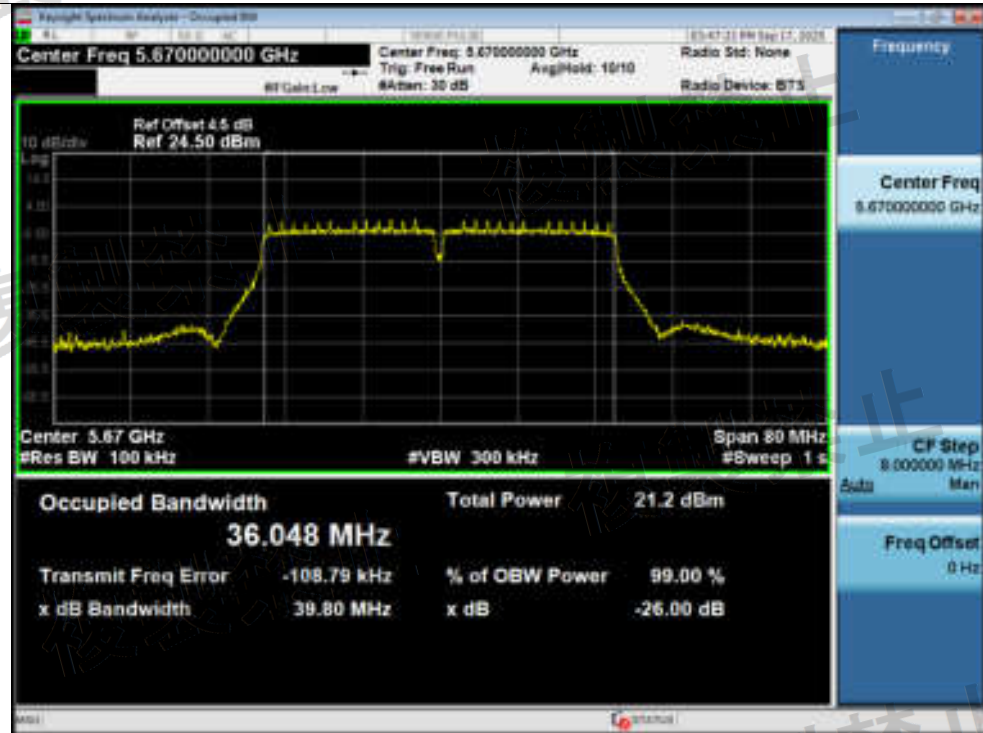
OBW NVNT ac40 5510MHz Ant1



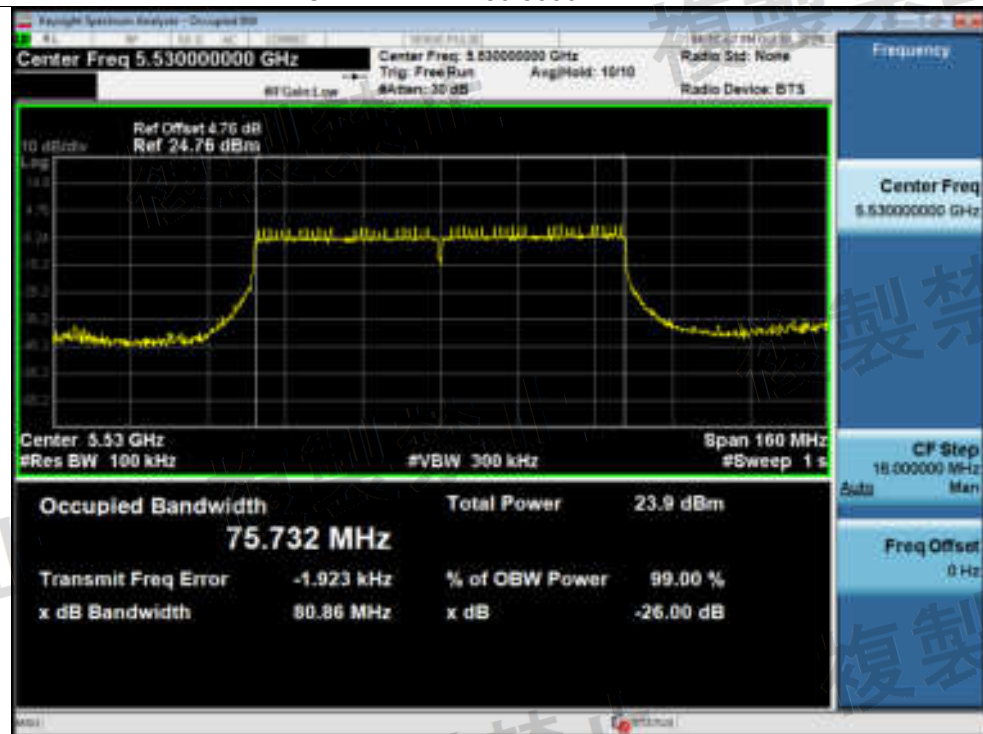
OBW NVNT ac40 5590MHz Ant1



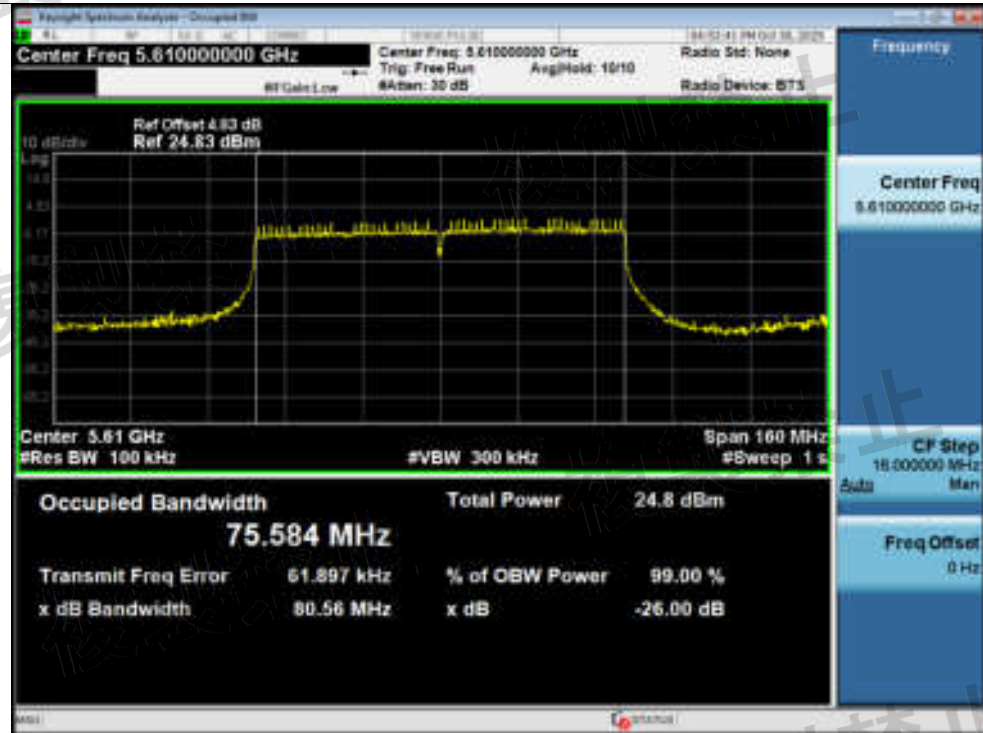
OBW NVNT ac40 5670MHz Ant1



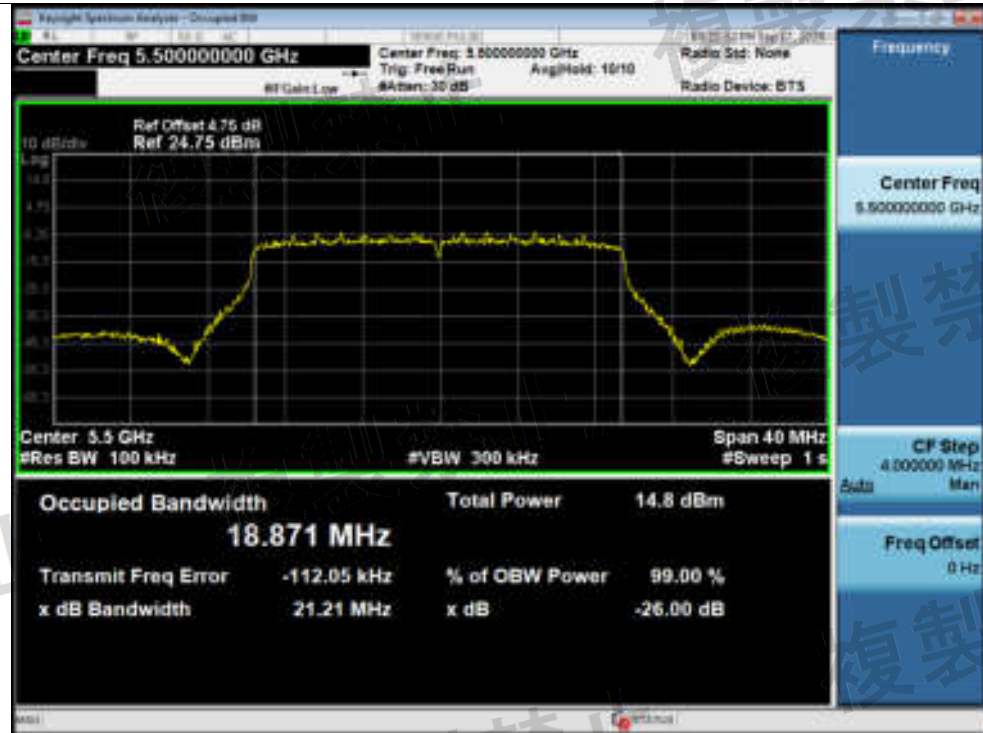
OBW NVNT ac80 5530MHz Ant1



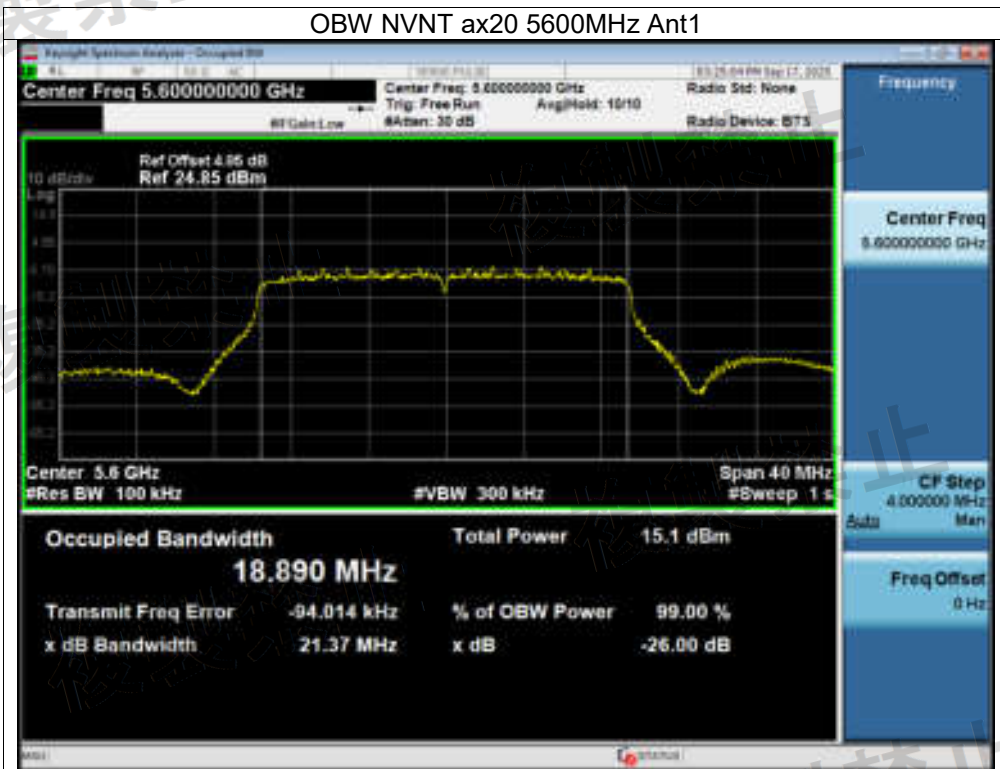
OBW NVNT ac80 5610MHz Ant1



OBW NVNT ax20 5500MHz Ant1



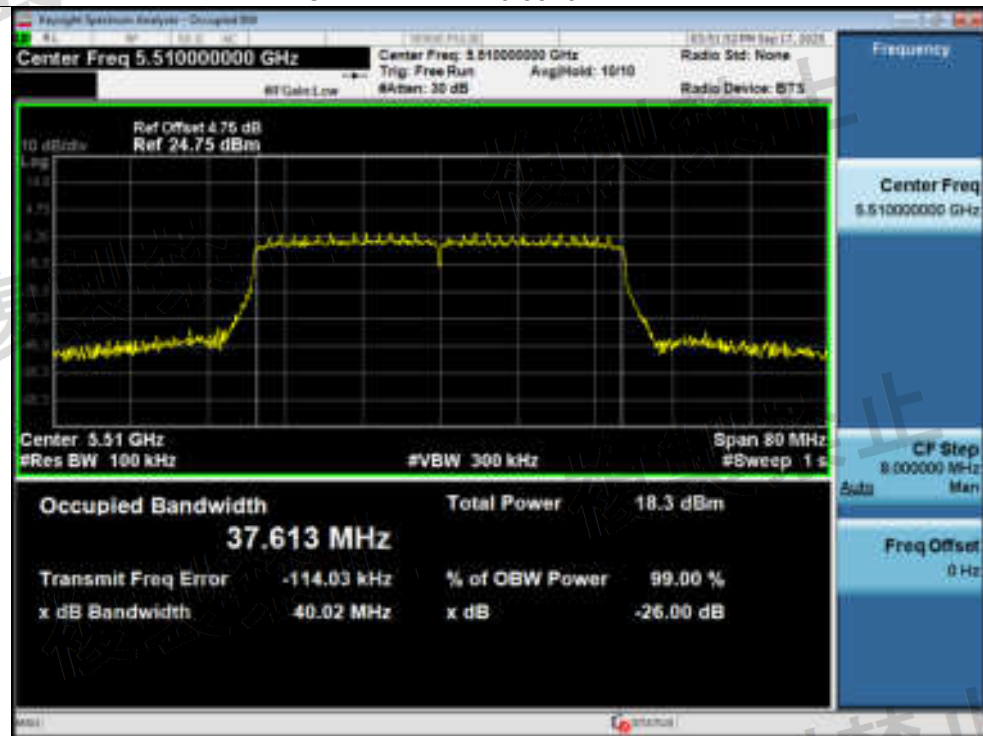
OBW NVNT ax20 5600MHz Ant1



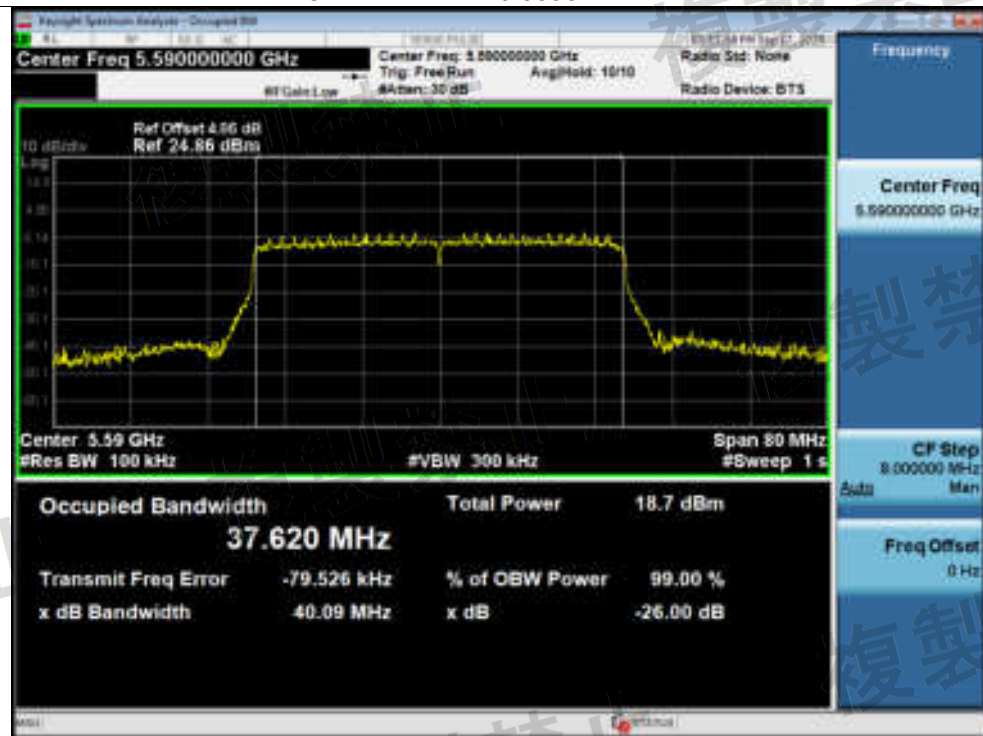
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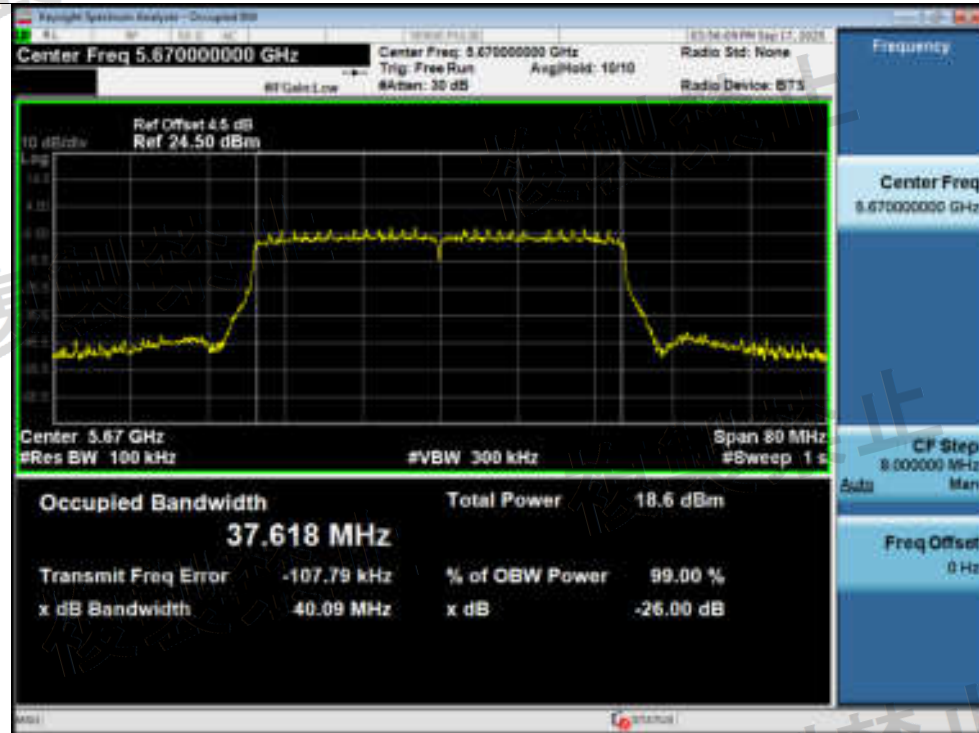
OBW NVNT ax40 5510MHz Ant1



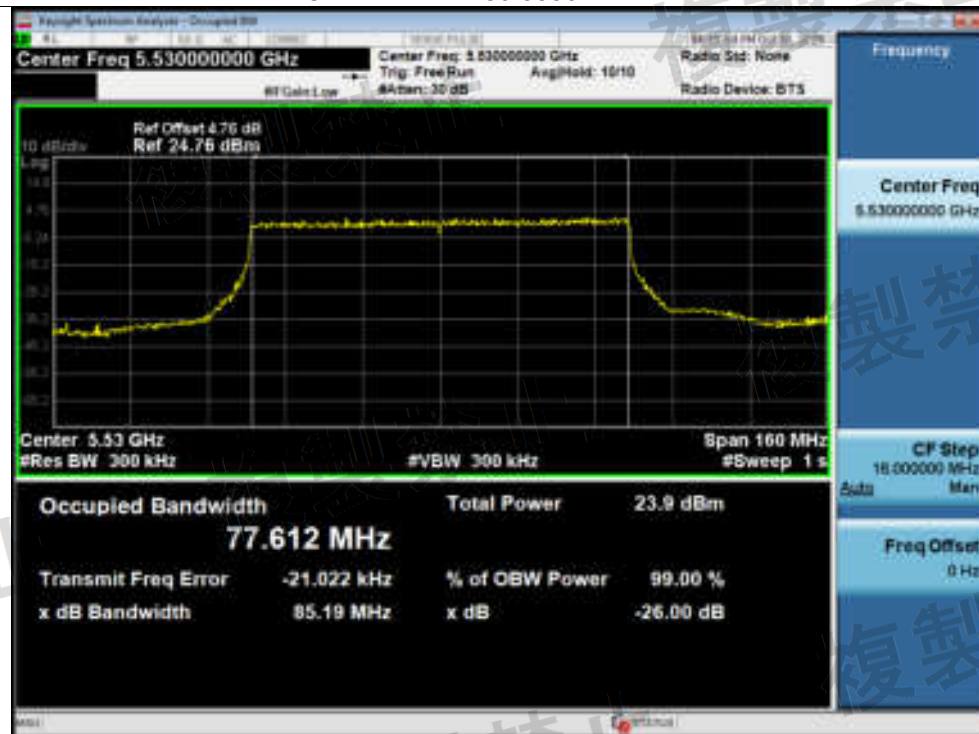
OBW NVNT ax40 5590MHz Ant1



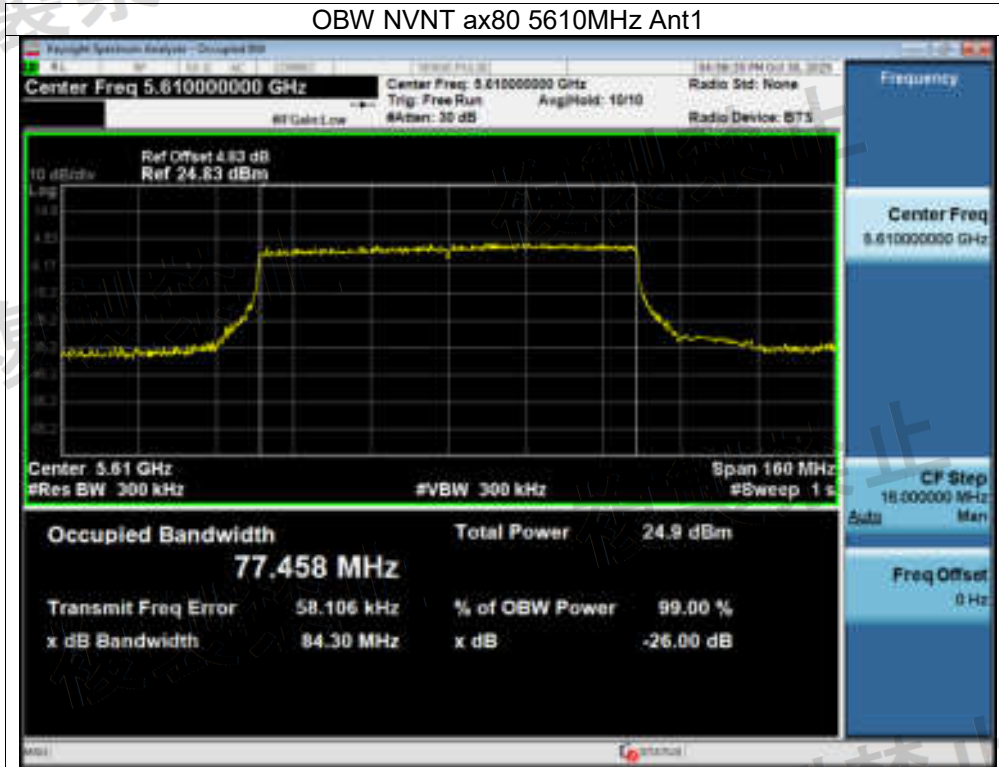
OBW NVNT ax40 5670MHz Ant1



OBW NVNT ax80 5530MHz Ant1

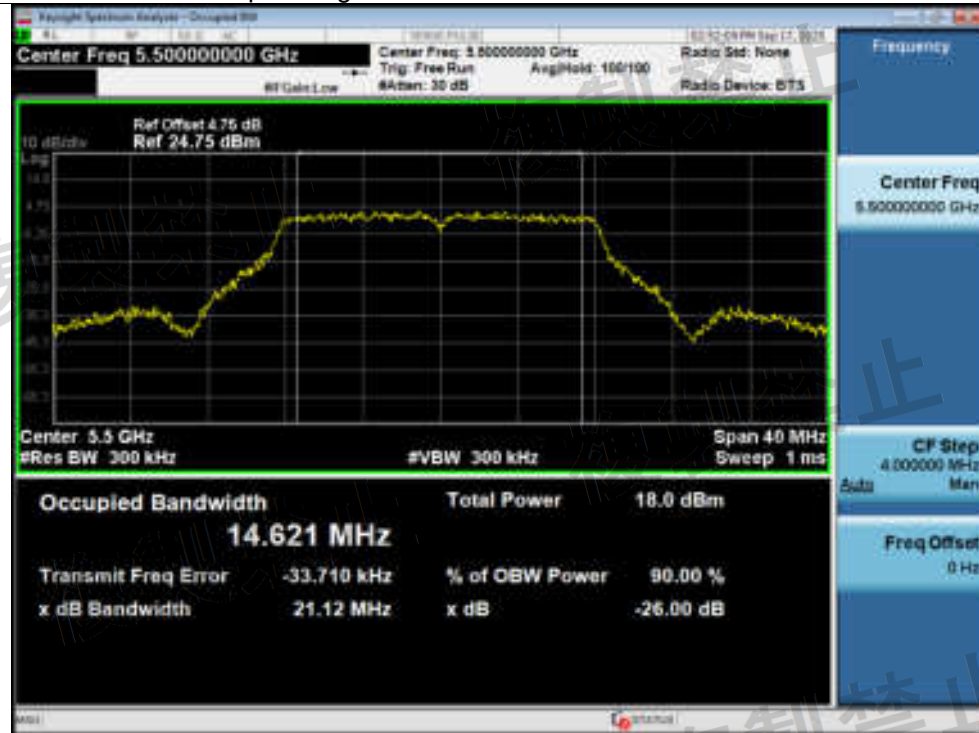


OBW NVNT ax80 5610MHz Ant1

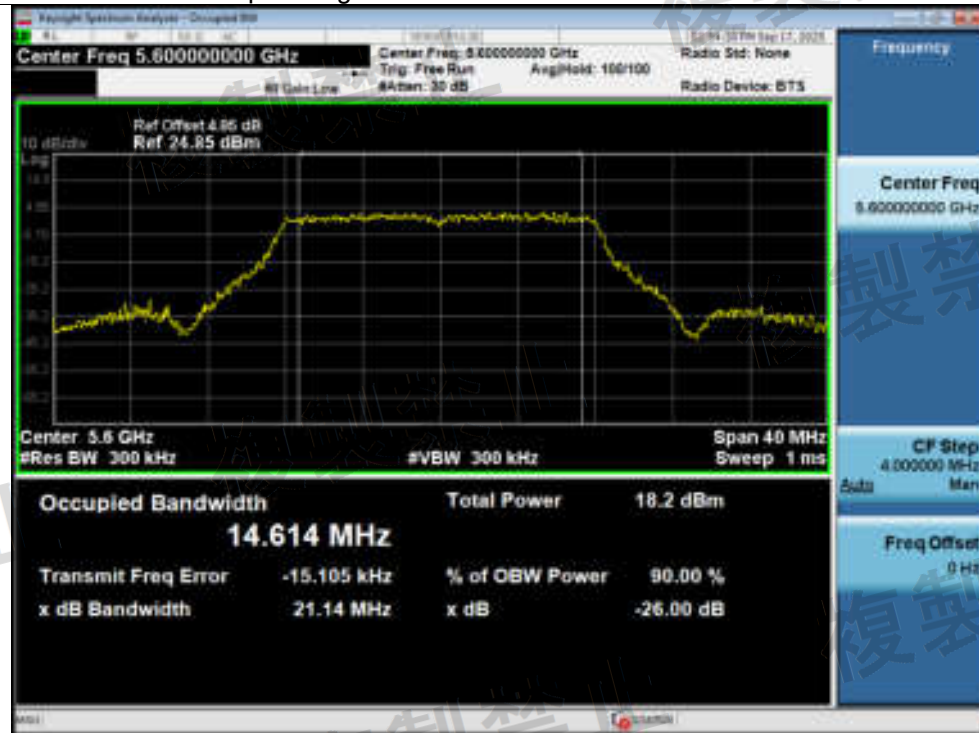


Test Graphs

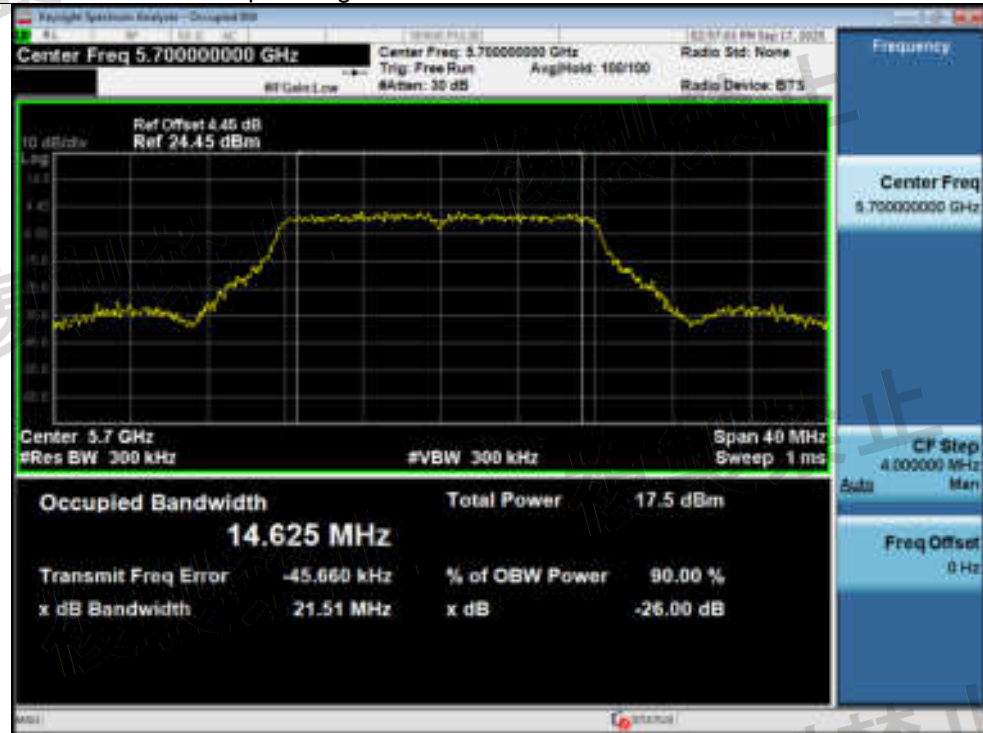
Spreading Bandwidth NVNT a 5500MHz Ant1



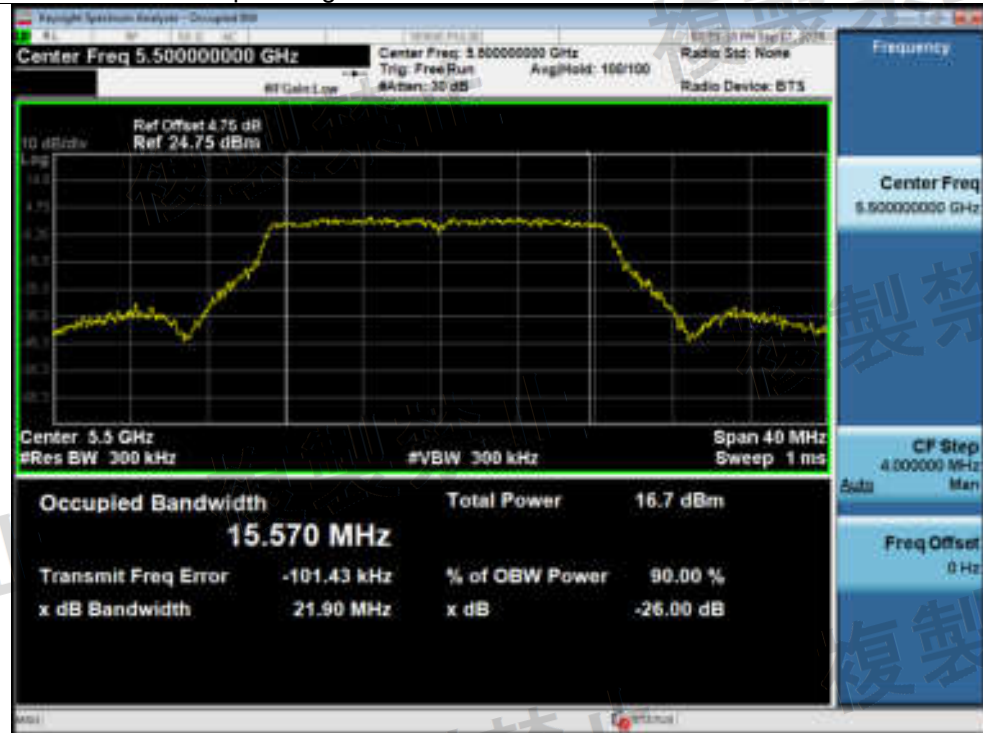
Spreading Bandwidth NVNT a 5600MHz Ant1



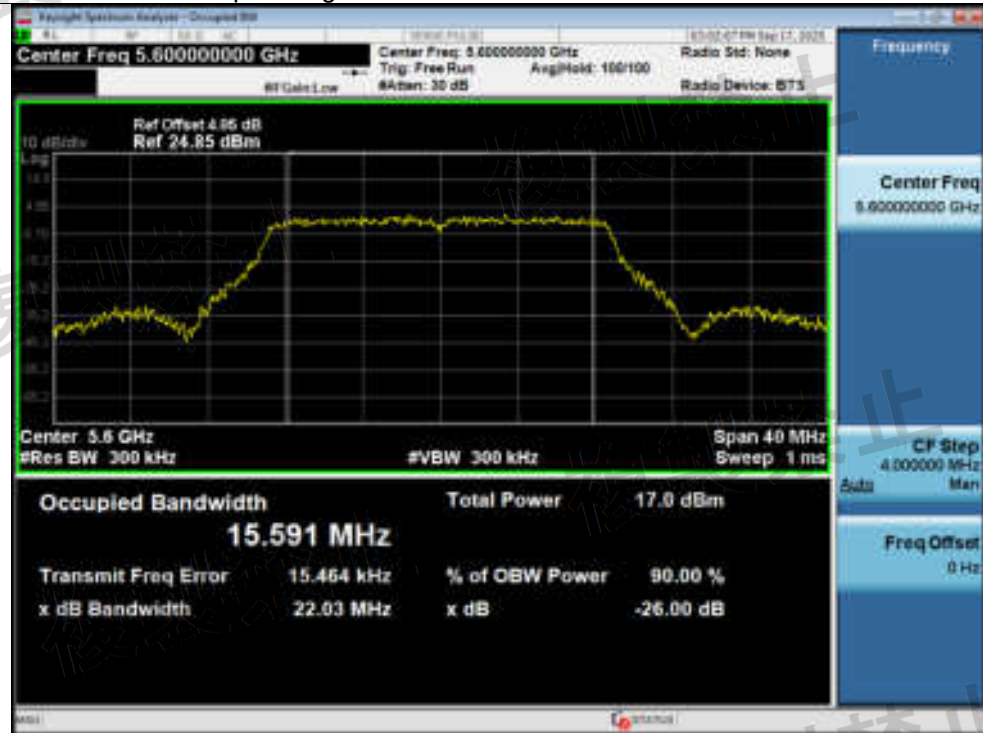
Spreading Bandwidth NVNT a 5700MHz Ant1



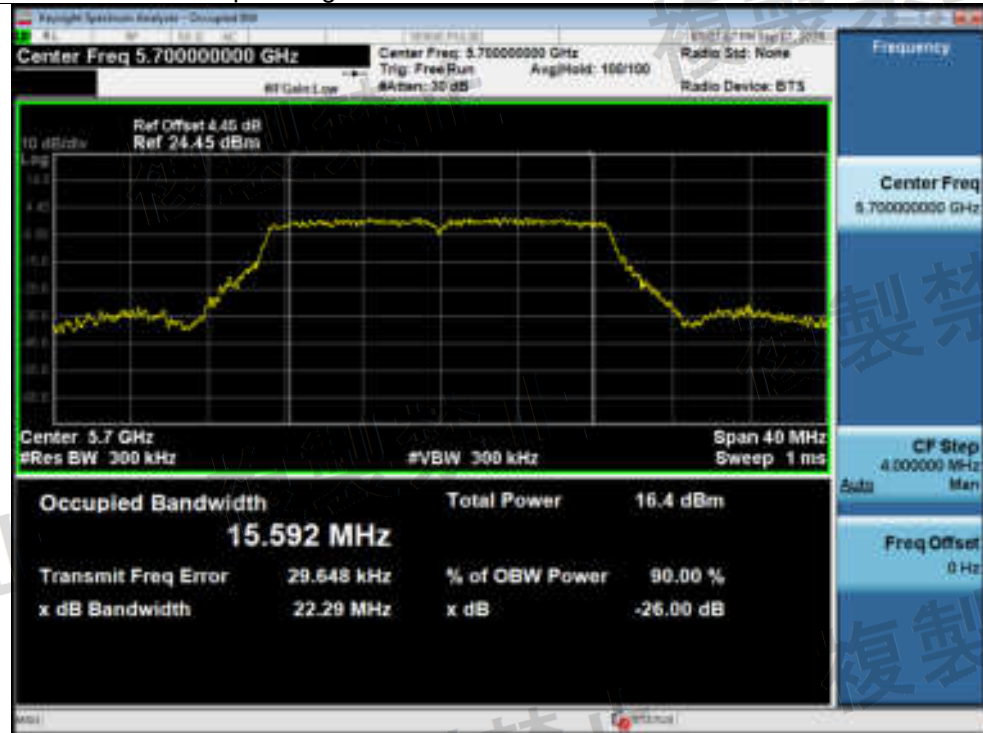
Spreading Bandwidth NVNT n20 5500MHz Ant1



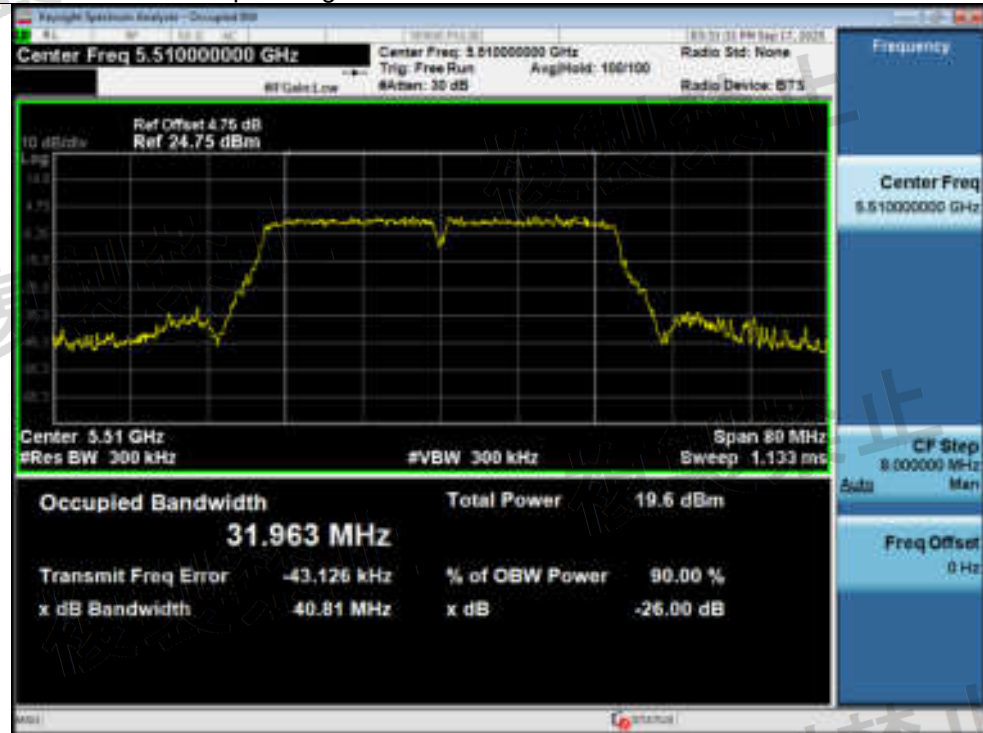
Spreading Bandwidth NVNT n20 5600MHz Ant1



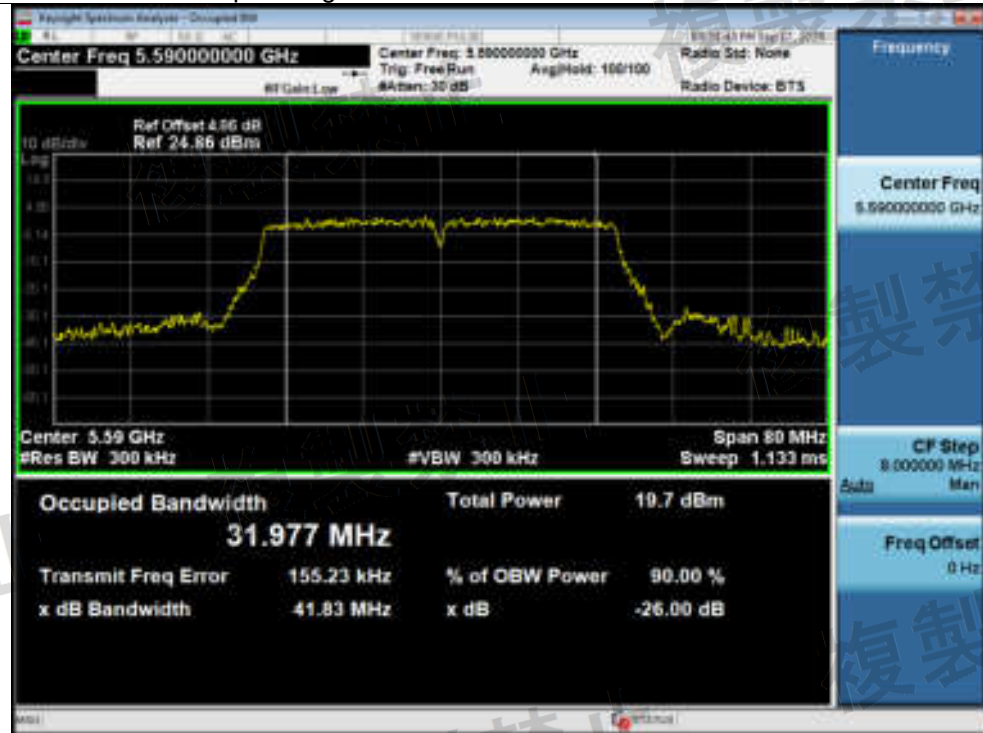
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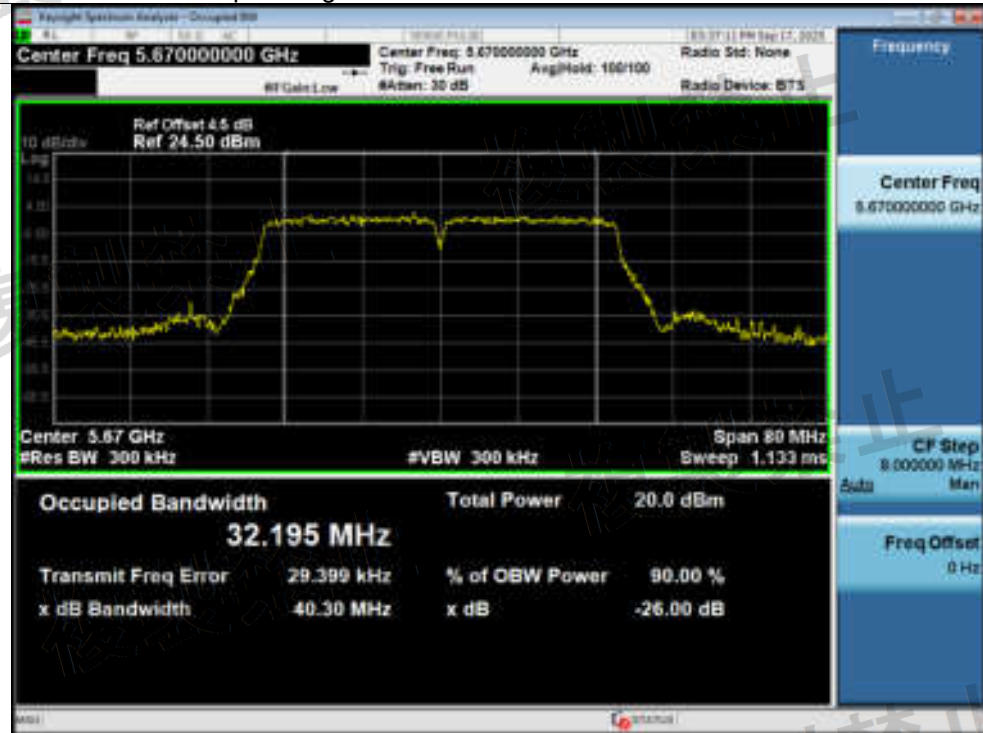
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Spreading Bandwidth NVNT n40 5590MHz Ant1



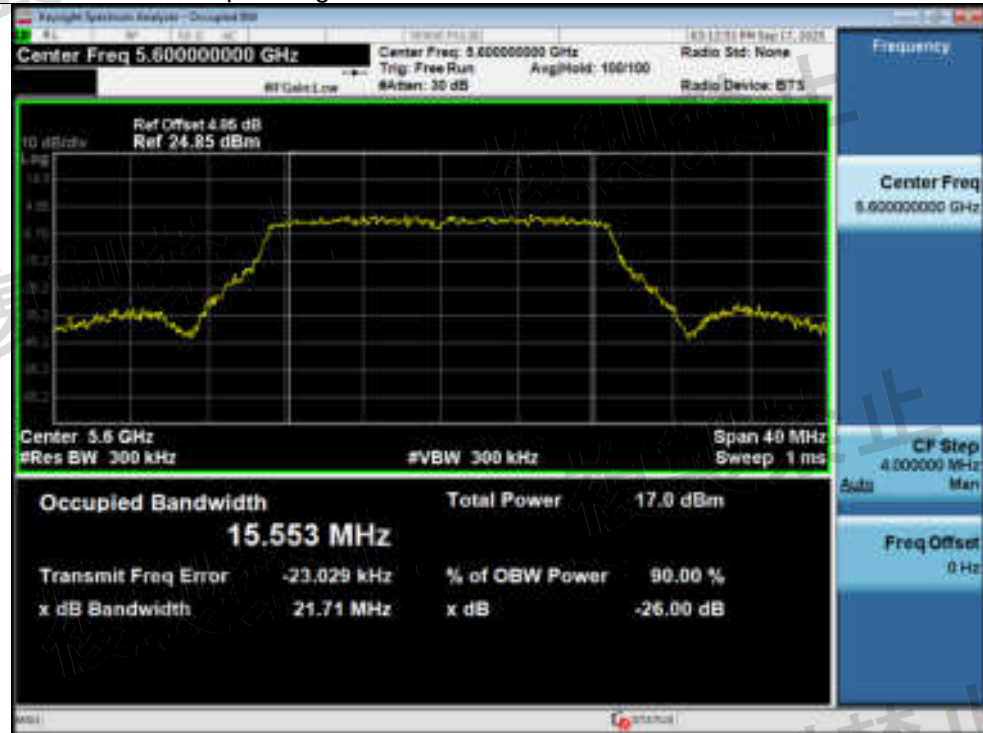
Spreading Bandwidth NVNT n40 5670MHz Ant1



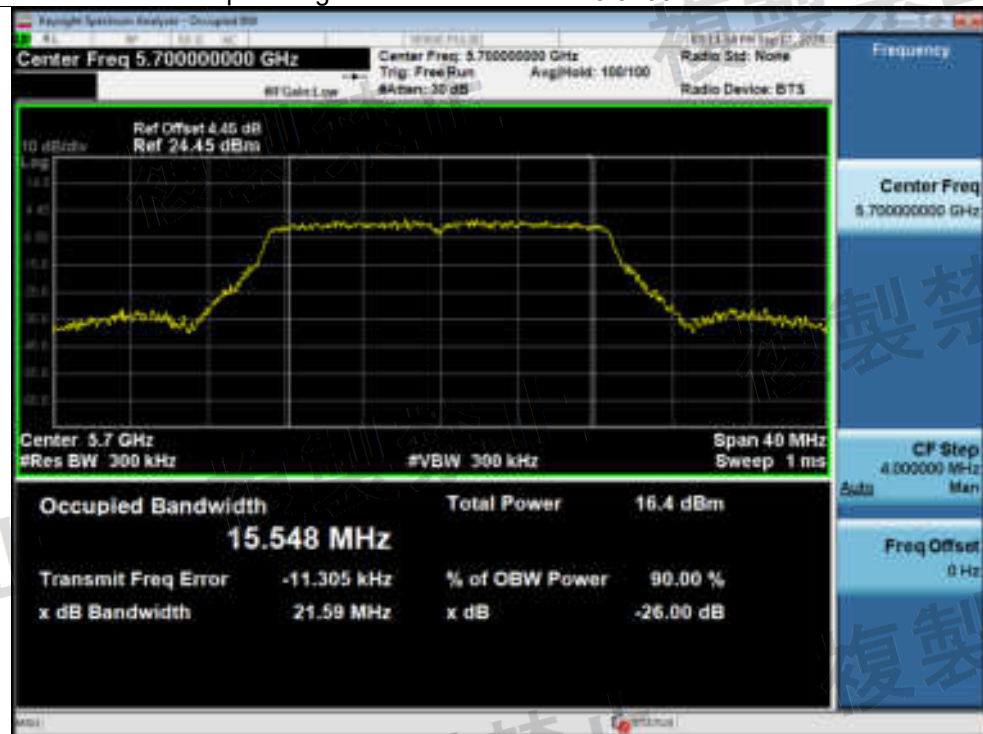
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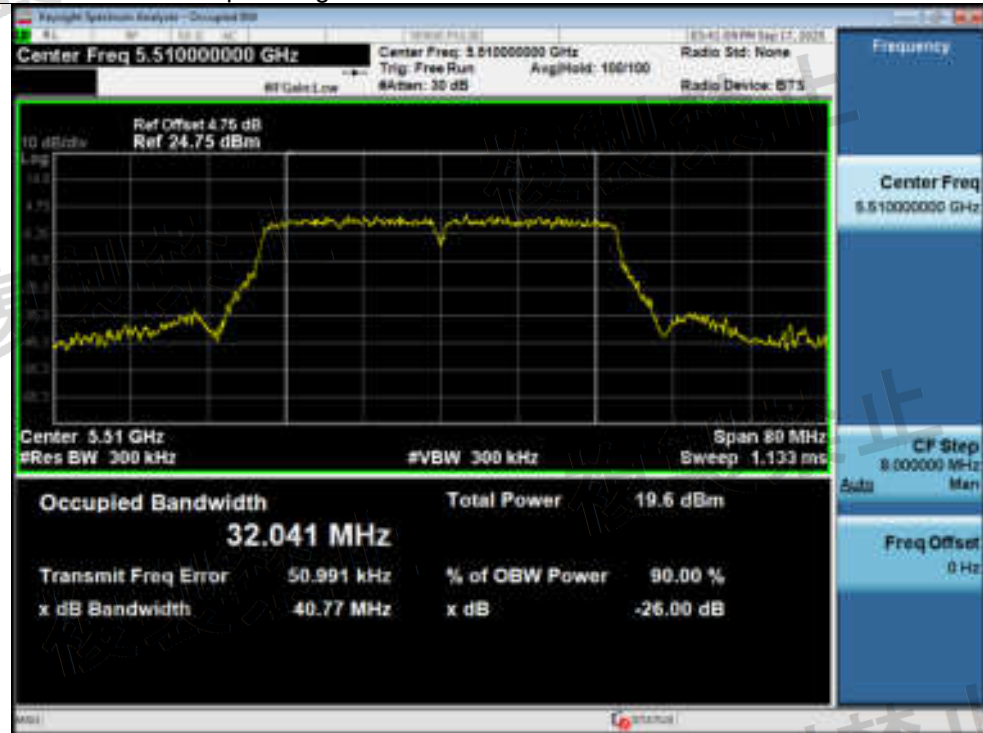
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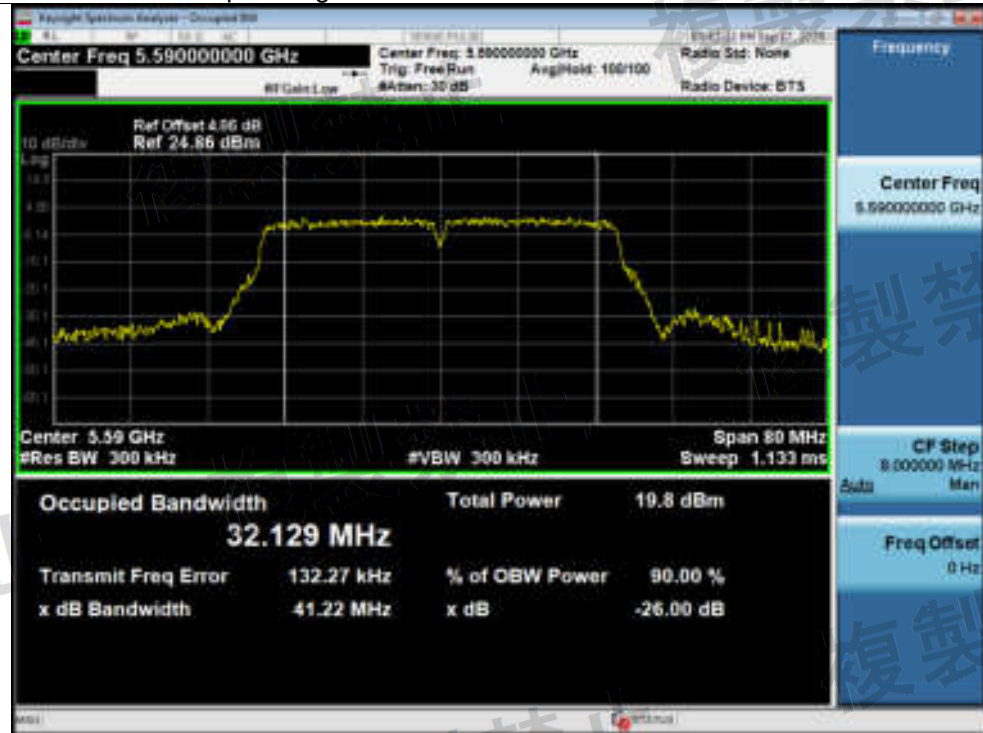
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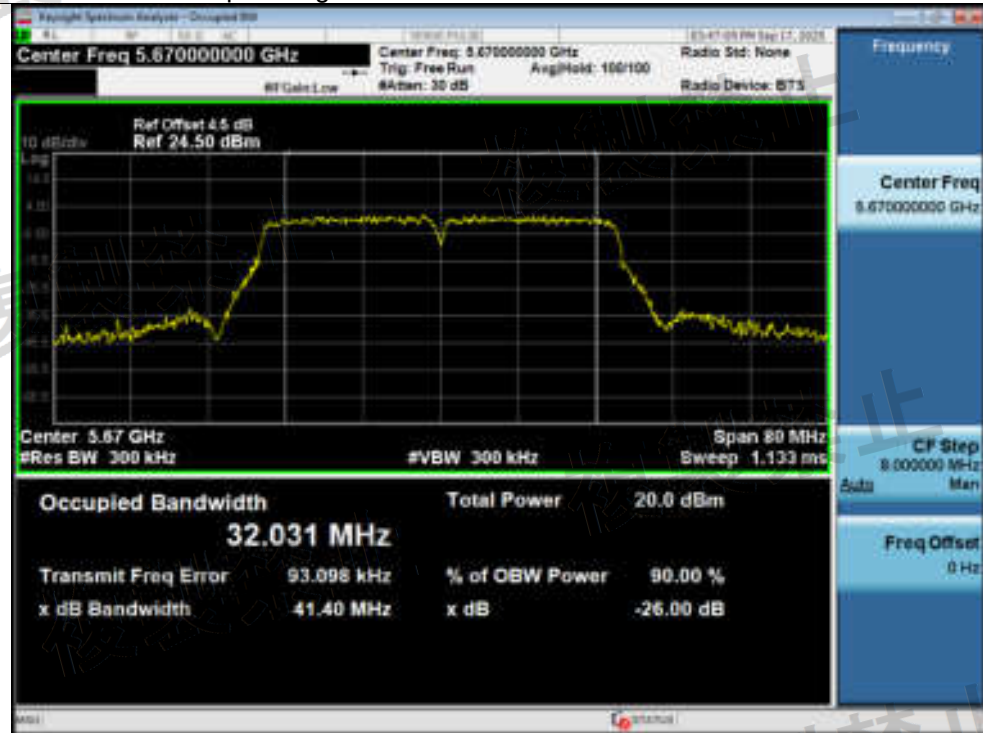
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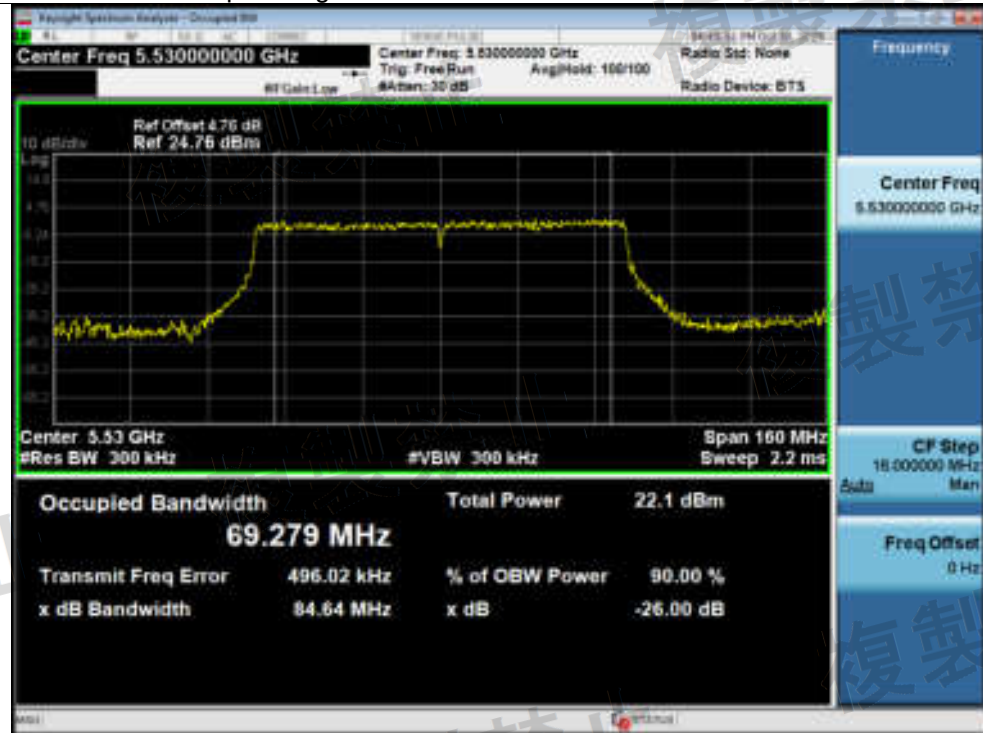
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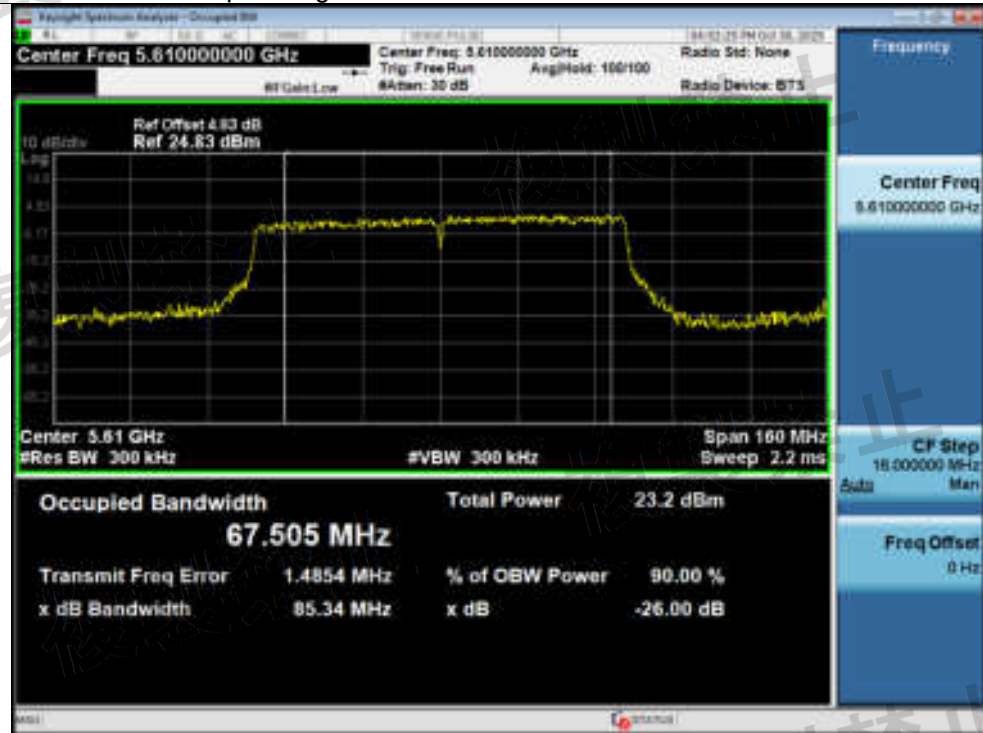
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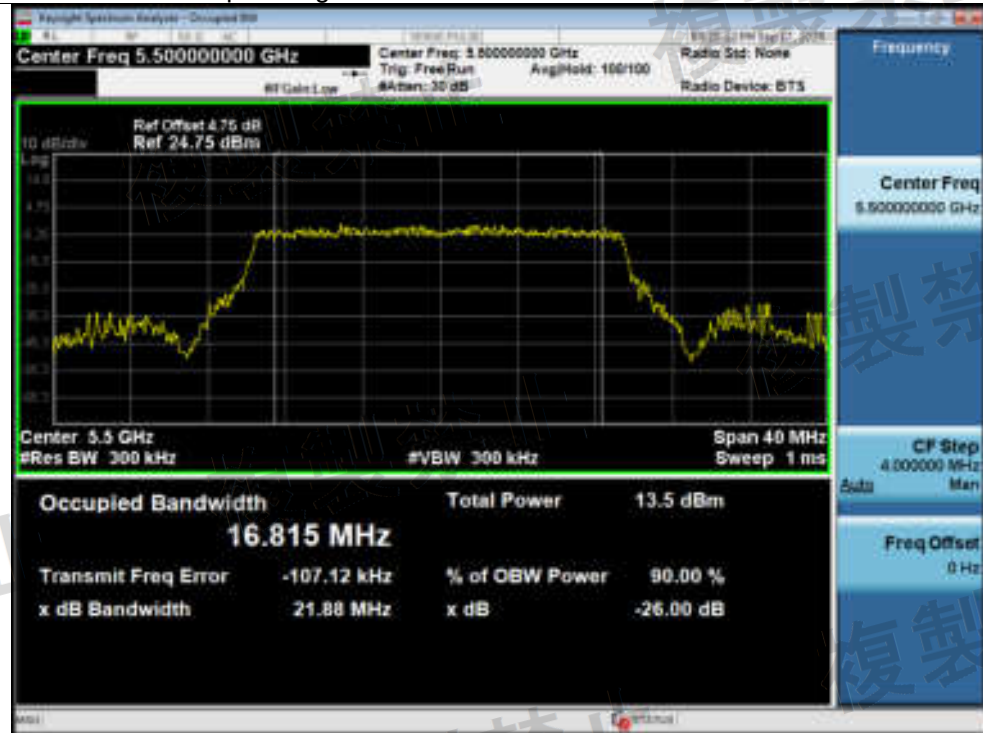
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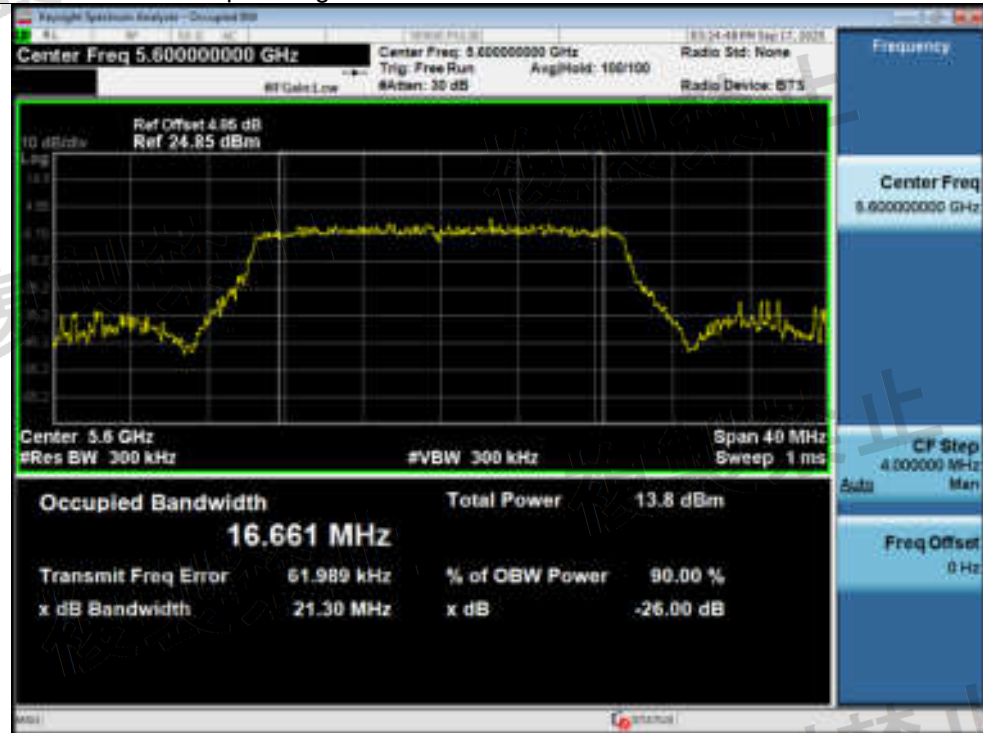
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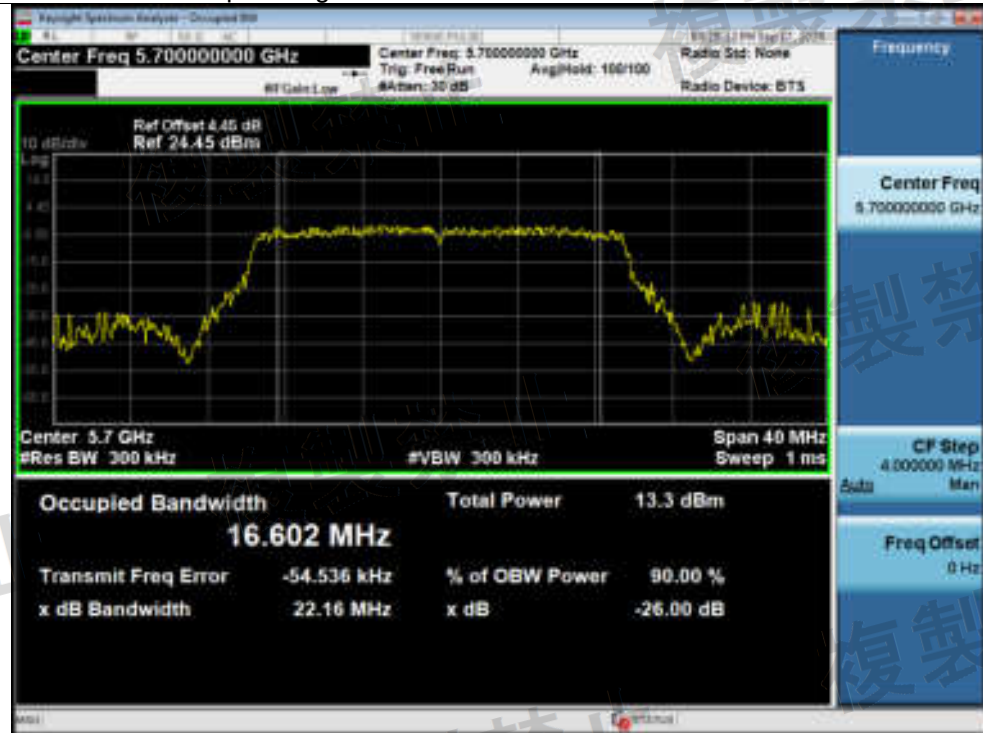
Spreading Bandwidth NVNT ax20 5500MHz Ant1



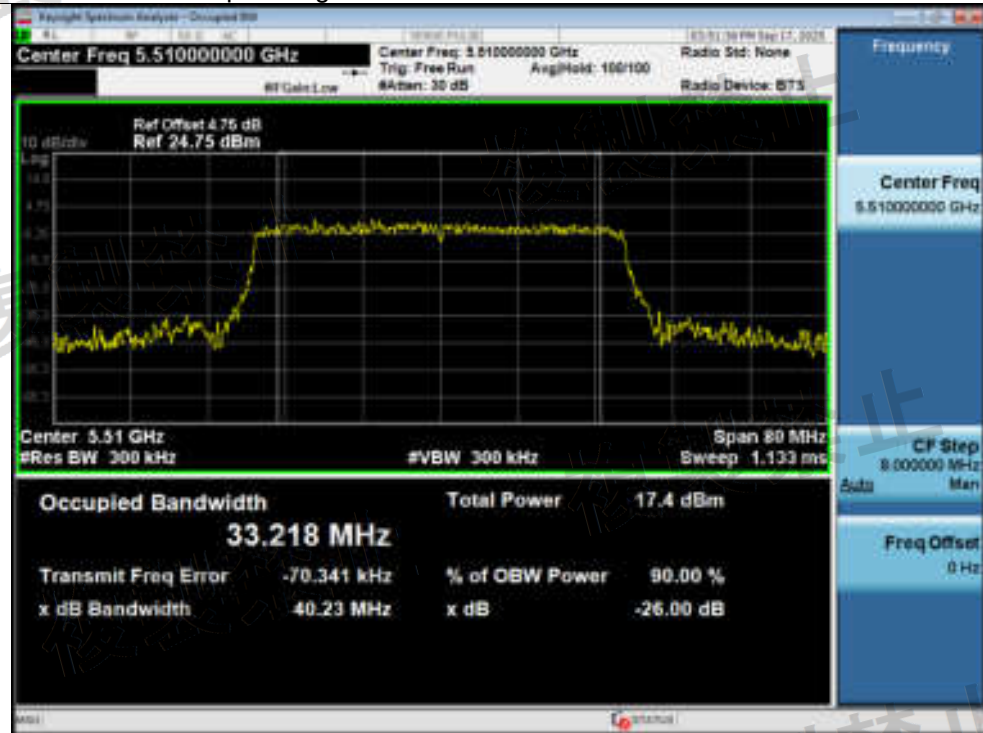
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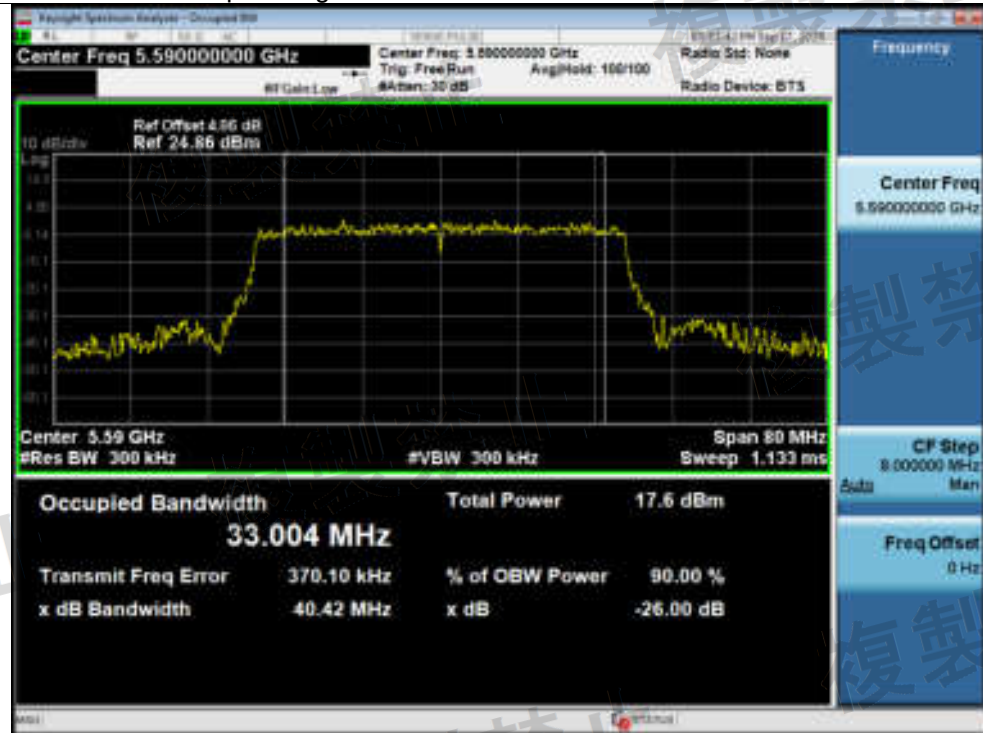
Spreading Bandwidth NVNT ax20 5700MHz Ant1



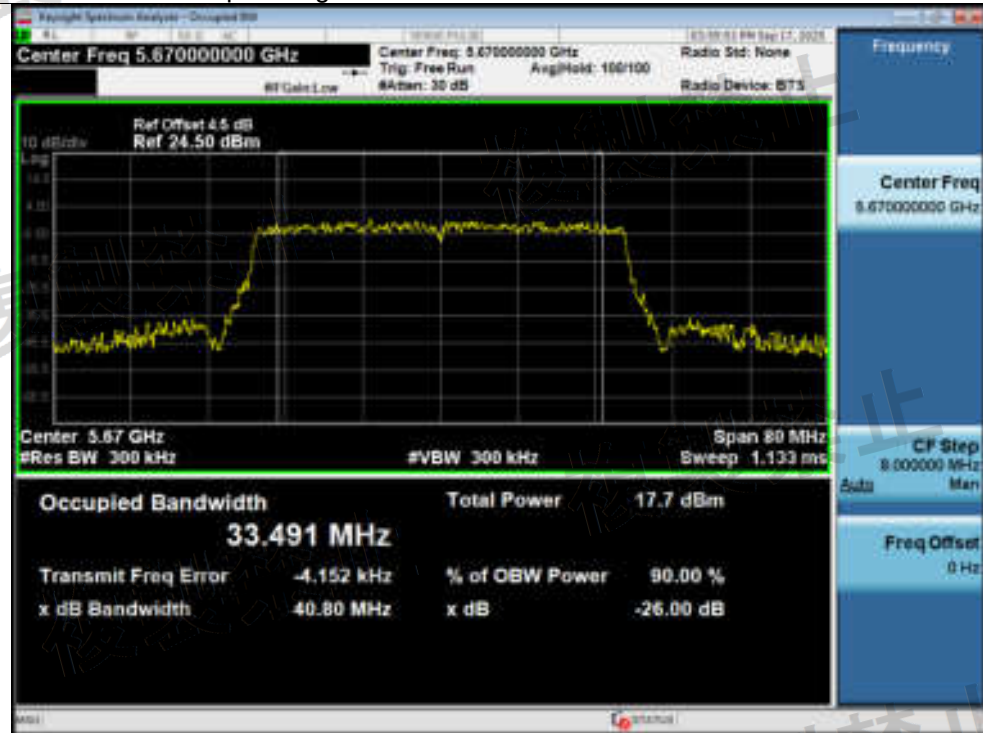
Spreading Bandwidth NVNT ax40 5510MHz Ant1



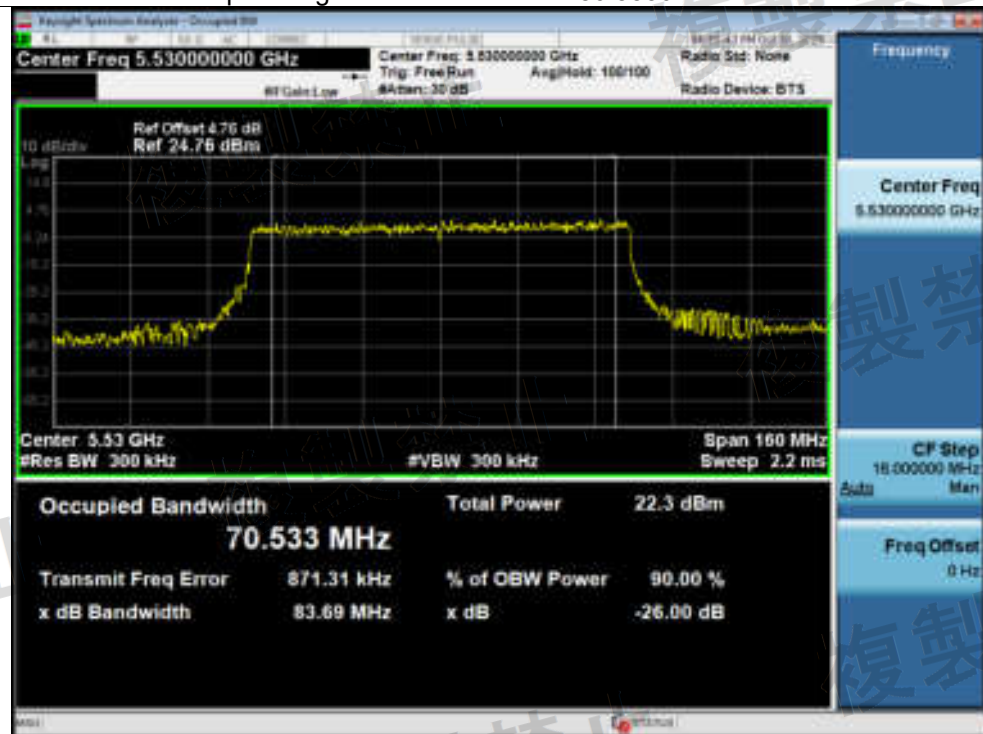
Spreading Bandwidth NVNT ax40 5590MHz Ant1



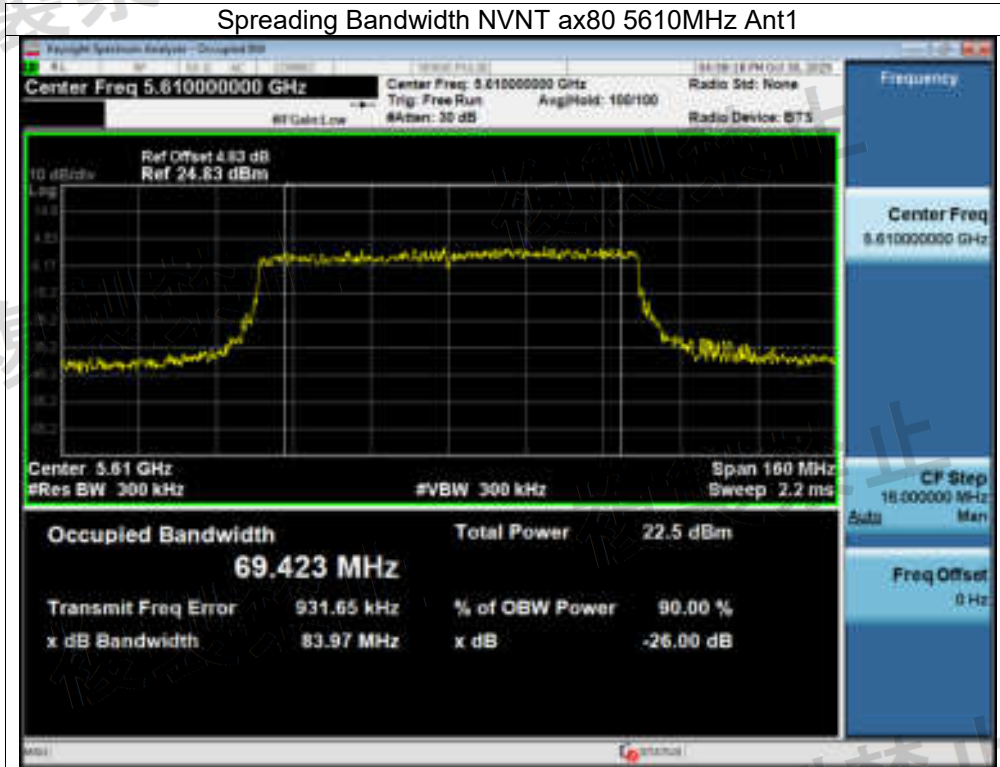
Spreading Bandwidth NVNT ax40 5670MHz Ant1



Spreading Bandwidth NVNT ax80 5530MHz Ant1

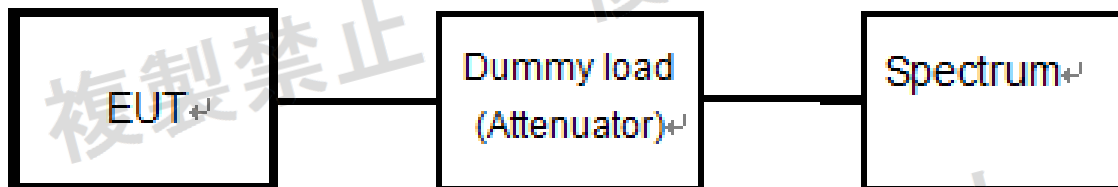


Spreading Bandwidth NVNT ax80 5610MHz Ant1



10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

W56	
20MHz system	
DSSS, etc.	OFDM
5,470 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 2.5 uW/MHz
	5,460 - 5,470 MHz : 12.5 uW/MHz
5,730 MHz or more : 12.5 uW/MHz	5,745 - 5,765 MHz : 12.5 uW/MHz
	Over 5,765 MHz : 2.5 uW/MHz
40MHz system	
80MHz system	
5,460 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 12.5 uW/MHz
5,460 - 5,470 MHz : 50 uW/MHz	5,460 - 5,469.5 MHz : 50 uW/MHz
	5,469.5 - 5,470 MHz : 51.2 uW/MHz
5,770 MHz or more : 12.5 uW/MHz	5,770 MHz or more : 12.5 uW/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:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold

10.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start(dBm)	Limit Stop (dBm)	Verdict
NVNT	a	5500	30-5460	4401.15	-40.23	-26	-26	Pass
NVNT	a	5500	5460-5470	5468.51	-37.97	-19	-19	Pass
NVNT	a	5500	5745-5765	5756.56	-44.43	-19	-19	Pass
NVNT	a	5500	5765-26000	24300.26	-31.01	-26	-26	Pass
NVNT	a	5600	30-5460	2973.06	-41.52	-26	-26	Pass
NVNT	a	5600	5460-5470	5467.7	-44.63	-19	-19	Pass
NVNT	a	5600	5745-5765	5757.7	-45.54	-19	-19	Pass
NVNT	a	5600	5765-26000	25109.66	-31.62	-26	-26	Pass
NVNT	a	5700	30-5460	2587.53	-42.49	-26	-26	Pass
NVNT	a	5700	5460-5470	5461.77	-45.08	-19	-19	Pass
NVNT	a	5700	5745-5765	5749.62	-39.86	-19	-19	Pass
NVNT	a	5700	5765-26000	24603.79	-32.32	-26	-26	Pass
NVNT	n20	5500	30-5460	5460	-42.37	-26	-26	Pass
NVNT	n20	5500	5460-5470	5466.6	-37.84	-19	-19	Pass
NVNT	n20	5500	5745-5765	5748.28	-44.82	-19	-19	Pass
NVNT	n20	5500	5765-26000	25089.43	-31.89	-26	-26	Pass
NVNT	n20	5600	30-5460	2641.83	-42.87	-26	-26	Pass
NVNT	n20	5600	5460-5470	5468.94	-44.24	-19	-19	Pass
NVNT	n20	5600	5745-5765	5758.72	-38.07	-19	-19	Pass
NVNT	n20	5600	5765-26000	24826.37	-32.22	-26	-26	Pass
NVNT	n20	5700	30-5460	5405.7	-42.02	-26	-26	Pass
NVNT	n20	5700	5460-5470	5463.86	-44.97	-19	-19	Pass
NVNT	n20	5700	5745-5765	5745.44	-40.86	-19	-19	Pass
NVNT	n20	5700	5765-26000	25048.96	-32.08	-26	-26	Pass
NVNT	n40	5510	30-5460	5454.57	-40.05	-19	-19	Pass
NVNT	n40	5510	5460-5470	5469.65	-34.64	-18	-18	Pass
NVNT	n40	5510	5770-26000	24948.04	-30.87	-19	-19	Pass
NVNT	n40	5590	30-5460	2500.65	-42.59	-19	-19	Pass
NVNT	n40	5590	5460-5470	5464.81	-41.25	-18	-18	Pass
NVNT	n40	5590	5770-26000	24927.81	-31.83	-19	-19	Pass
NVNT	n40	5670	30-5460	2745	-42.94	-19	-19	Pass
NVNT	n40	5670	5460-5470	5461.86	-44.12	-18	-18	Pass
NVNT	n40	5670	5770-26000	24523.21	-32.5	-19	-19	Pass
NVNT	ac20	5500	30-5460	5460	-42.44	-26	-26	Pass
NVNT	ac20	5500	5460-5470	5467.6	-40.45	-19	-19	Pass
NVNT	ac20	5500	5745-5765	5757.48	-42.48	-19	-19	Pass
NVNT	ac20	5500	5765-26000	24704.96	-31.33	-26	-26	Pass
NVNT	ac20	5600	30-5460	2641.83	-42.2	-26	-26	Pass
NVNT	ac20	5600	5460-5470	5466.62	-44.51	-19	-19	Pass
NVNT	ac20	5600	5745-5765	5764.78	-38.57	-19	-19	Pass
NVNT	ac20	5600	5765-26000	25008.49	-31.74	-26	-26	Pass
NVNT	ac20	5700	30-5460	4558.62	-41.7	-26	-26	Pass
NVNT	ac20	5700	5460-5470	5467.32	-43.49	-19	-19	Pass
NVNT	ac20	5700	5745-5765	5748	-41.38	-19	-19	Pass
NVNT	ac20	5700	5765-26000	25008.49	-32.29	-26	-26	Pass
NVNT	ac40	5510	30-5460	5454.57	-40.17	-19	-19	Pass
NVNT	ac40	5510	5460-5470	5469.36	-34.12	-18	-18	Pass

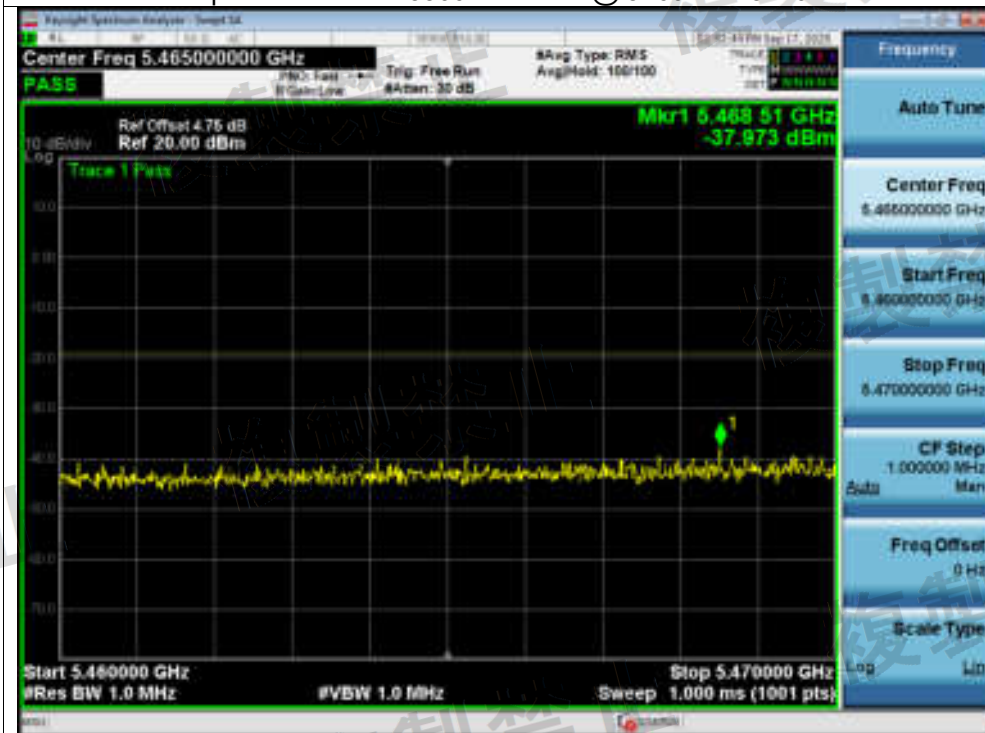
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NVNT	ac40	5590	5460-5470	5463.01	-44.72	-18	-18	Pass
NVNT	ac40	5590	5770-26000	24260.22	-31.45	-19	-19	Pass
NVNT	ac40	5670	30-5460	4536.9	-41.66	-19	-19	Pass
NVNT	ac40	5670	5460-5470	5466.4	-43.65	-18	-18	Pass
NVNT	ac40	5670	5770-26000	25534.71	-31.94	-19	-19	Pass
NVNT	ac80	5530	30-5460	5454.57	-34.42	-19	-19	Pass
NVNT	ac80	5530	5460-5469.5	5468.80	-33.15	-13	-13	Pass
NVNT	ac80	5530	5469.5-5470	5469.92	-33.53	-13	-13	Pass
NVNT	ac80	5530	5770-26000	24604.13	-32.43	-19	-19	Pass
NVNT	ac80	5610	30-5460	5058.18	-42.35	-19	-19	Pass
NVNT	ac80	5610	5460-5469.5	5463.57	-40.50	-13	-13	Pass
NVNT	ac80	5610	5469.5-5470	5469.55	-36.76	-13	-13	Pass
NVNT	ac80	5610	5770-26000	24826.66	-32.02	-19	-19	Pass
NVNT	ax20	5500	30-5460	5454.57	-42.27	-26	-26	Pass
NVNT	ax20	5500	5460-5470	5466.48	-42.61	-19	-19	Pass
NVNT	ax20	5500	5745-5765	5756.76	-45.53	-19	-19	Pass
NVNT	ax20	5500	5765-26000	24968.02	-31.16	-26	-26	Pass
NVNT	ax20	5600	30-5460	3125.1	-42.65	-26	-26	Pass
NVNT	ax20	5600	5460-5470	5464.41	-43.5	-19	-19	Pass
NVNT	ax20	5600	5745-5765	5754.34	-45.24	-19	-19	Pass
NVNT	ax20	5600	5765-26000	24968.02	-31.9	-26	-26	Pass
NVNT	ax20	5700	30-5460	3141.39	-42.9	-26	-26	Pass
NVNT	ax20	5700	5460-5470	5465.65	-44.88	-19	-19	Pass
NVNT	ax20	5700	5745-5765	5756.5	-43.51	-19	-19	Pass
NVNT	ax20	5700	5765-26000	24826.37	-31.83	-26	-26	Pass
NVNT	ax40	5510	30-5460	5460	-37.29	-19	-19	Pass
NVNT	ax40	5510	5460-5470	5467.57	-32.09	-18	-18	Pass
NVNT	ax40	5510	5770-26000	25312.18	-31.23	-19	-19	Pass
NVNT	ax40	5590	30-5460	3130.53	-42.38	-19	-19	Pass
NVNT	ax40	5590	5460-5470	5466.33	-44.69	-18	-18	Pass
NVNT	ax40	5590	5770-26000	24968.27	-31.73	-19	-19	Pass
NVNT	ax40	5670	30-5460	2554.95	-42.86	-19	-19	Pass
NVNT	ax40	5670	5460-5470	5466.18	-45.04	-18	-18	Pass
NVNT	ax40	5670	5770-26000	25190.8	-32.46	-19	-19	Pass
NVNT	ax80	5530	30-5460	5443.71	-35.63	-19	-19	Pass
NVNT	ax80	5530	5460-5469.5	5467.66	-32.90	-13	-13	Pass
NVNT	ax80	5530	5469.5-5470	5469.58	-32.05	-13	-13	Pass
NVNT	ax80	5530	5770-26000	25089.65	-32.54	-19	-19	Pass
NVNT	ax80	5610	30-5460	4488.57	-42.13	-19	-19	Pass
NVNT	ax80	5610	5460-5469.5	5462.84	-41.34	-13	-13	Pass
NVNT	ax80	5610	5469.5-5470	5469.82	-38.93	-13	-13	Pass
NVNT	ax80	5610	5770-26000	24921.74	-31.89	-19	-19	Pass

Test Graphs

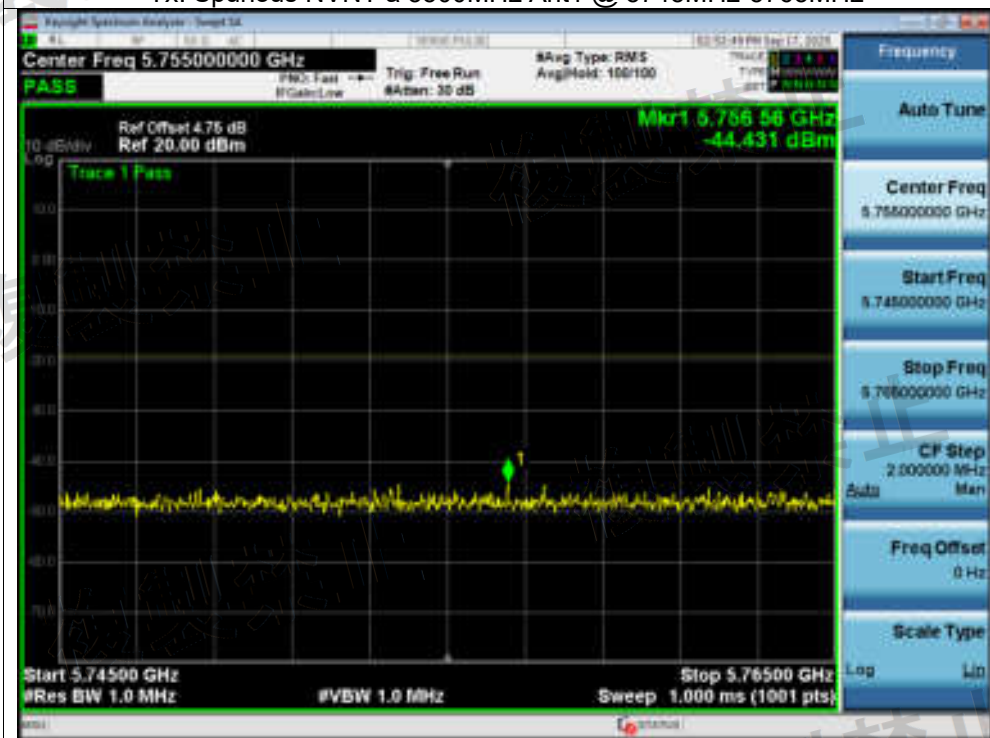
Tx. Spurious NVNT a 5500MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT a 5500MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT a 5500MHz Ant1 @ 5745MHz-5765MHz



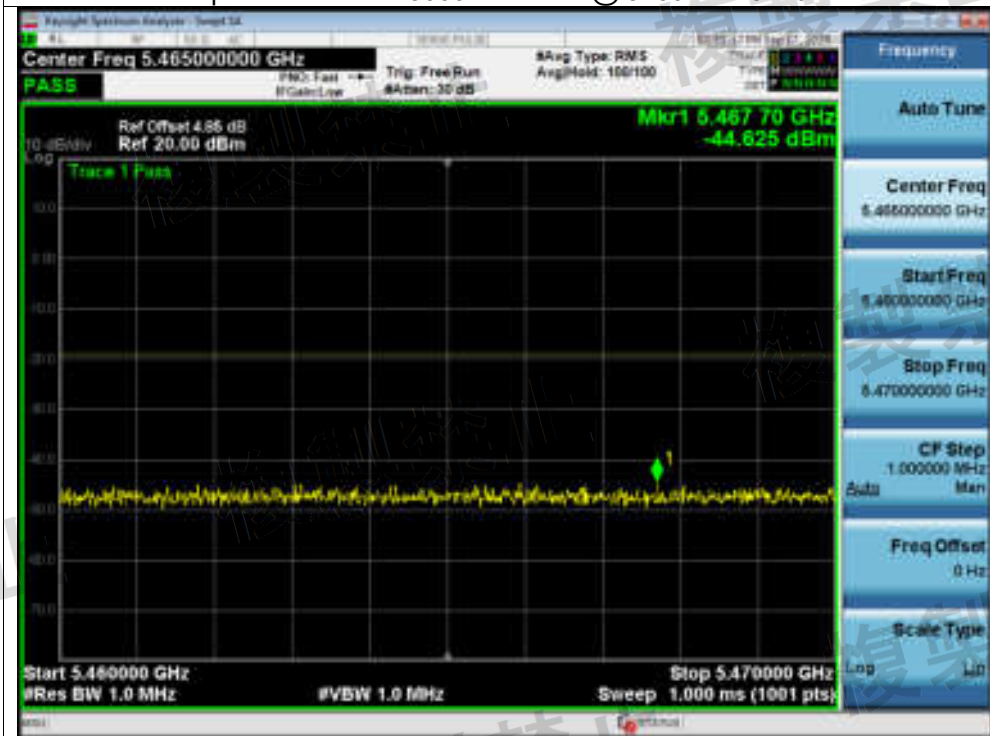
Tx. Spurious NVNT a 5500MHz Ant1 @ 5765MHz-26000MHz



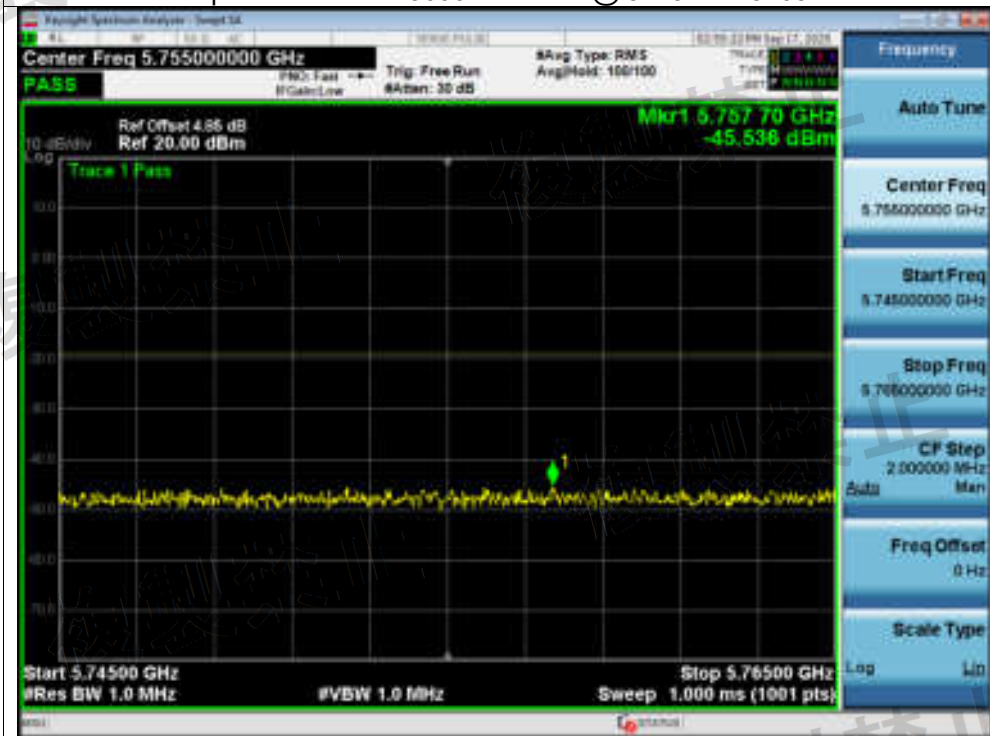
Tx. Spurious NVNT a 5600MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT a 5600MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT a 5600MHz Ant1 @ 5745MHz-5765MHz



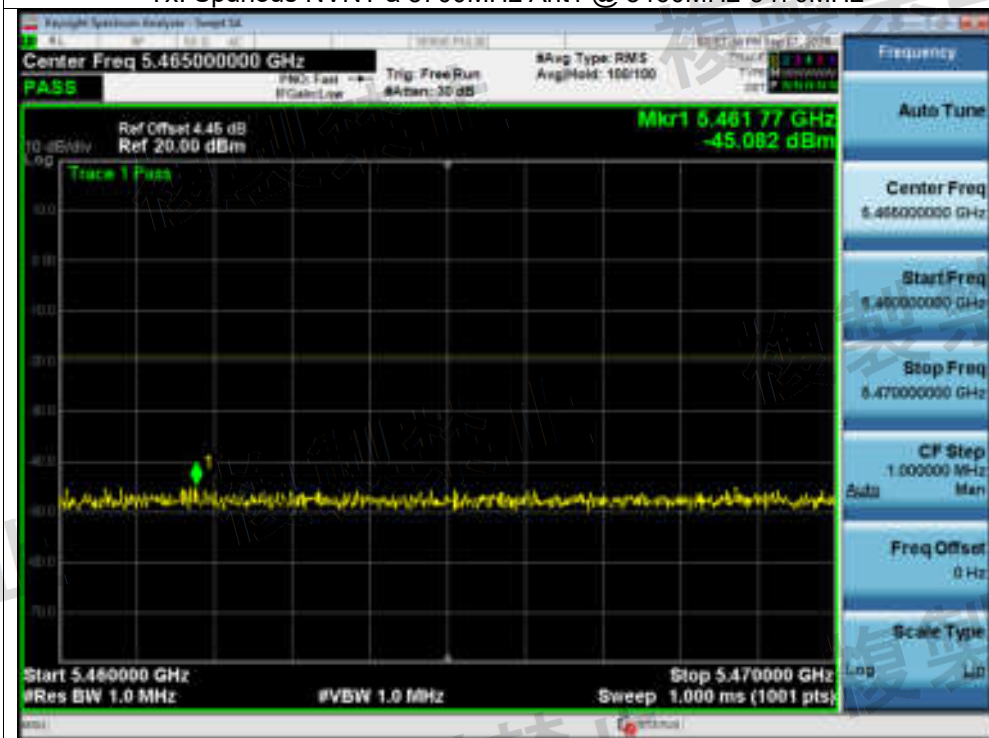
Tx. Spurious NVNT a 5600MHz Ant1 @ 5765MHz-26000MHz



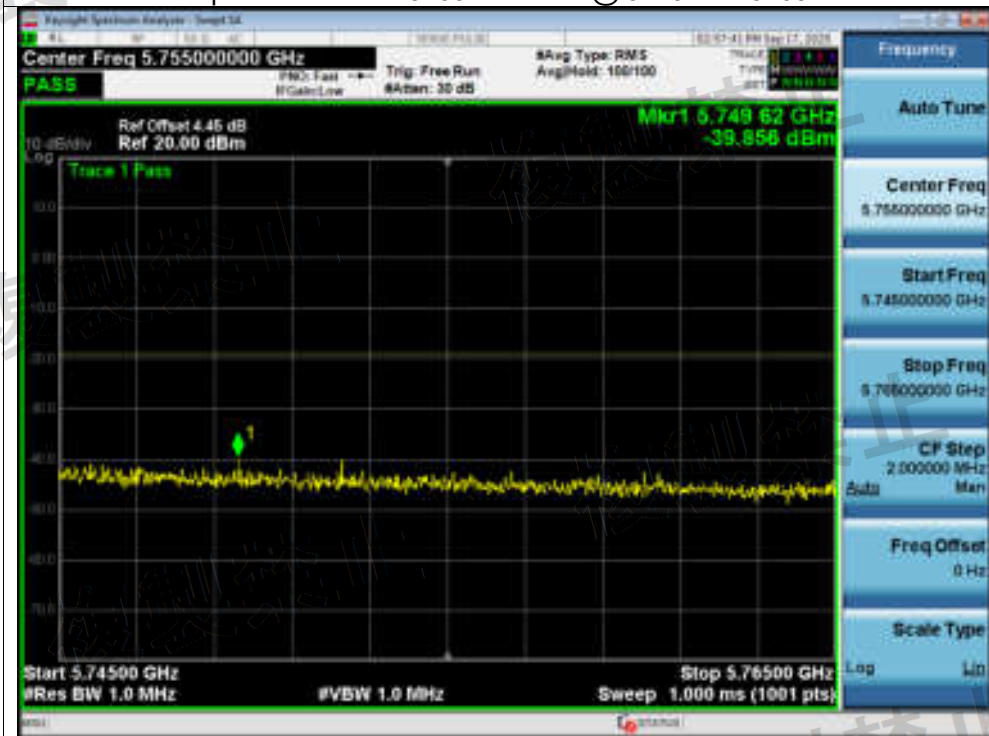
Tx. Spurious NVNT a 5700MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT a 5700MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT a 5700MHz Ant1 @ 5745MHz-5765MHz



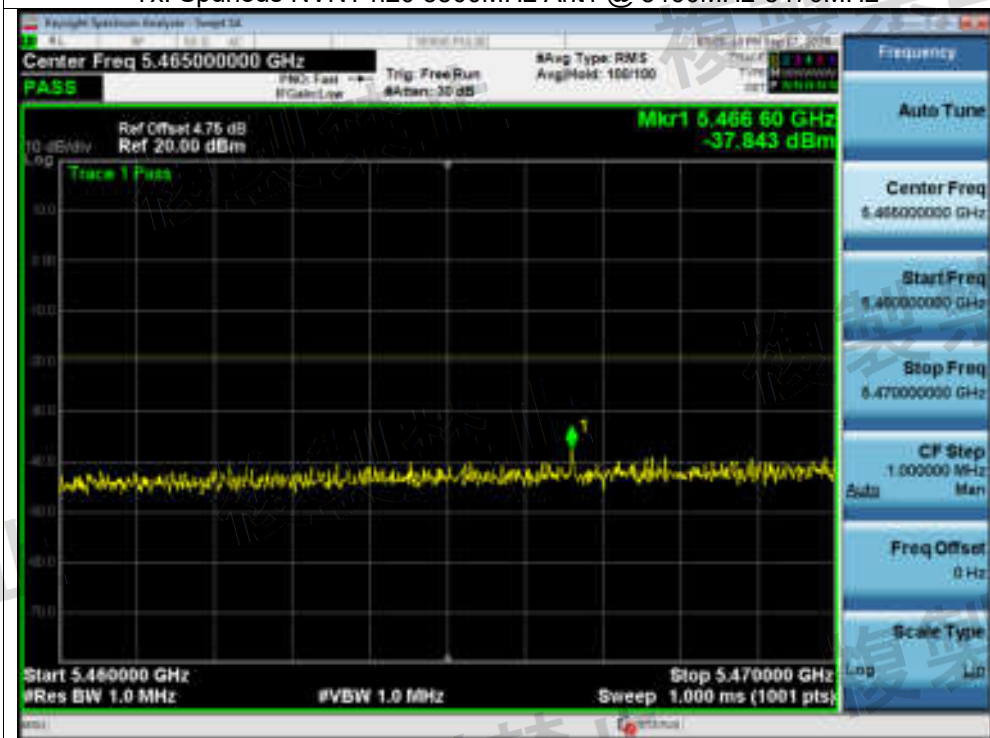
Tx. Spurious NVNT a 5700MHz Ant1 @ 5765MHz-26000MHz



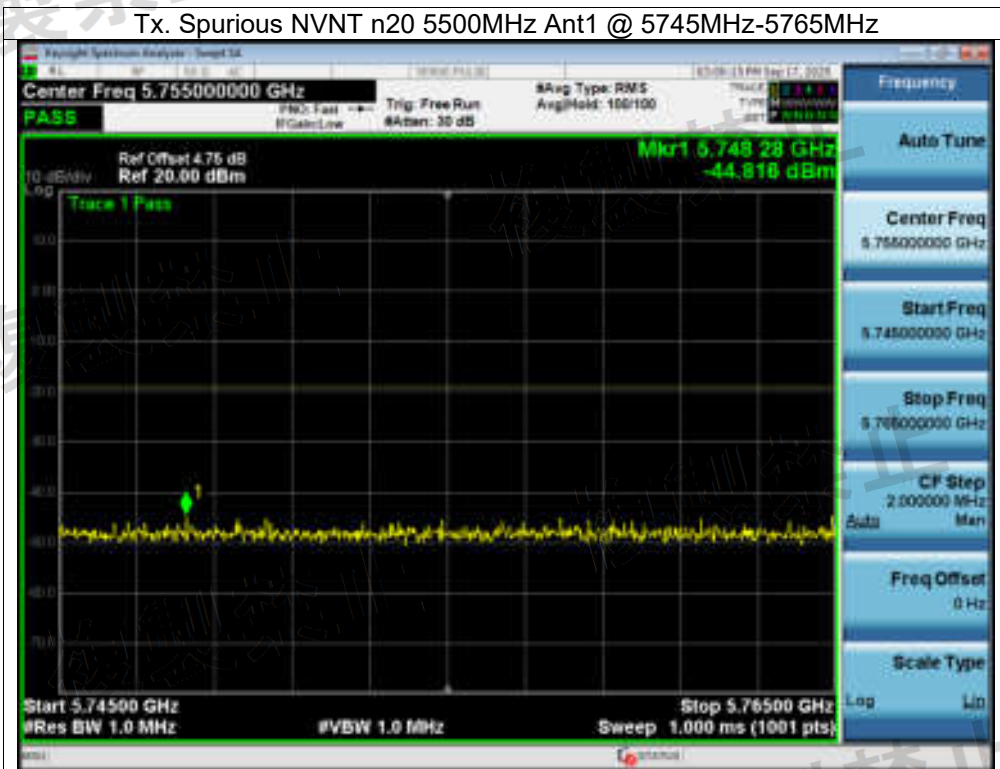
Tx. Spurious NVNT n20 5500MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT n20 5500MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT n20 5500MHz Ant1 @ 5745MHz-5765MHz



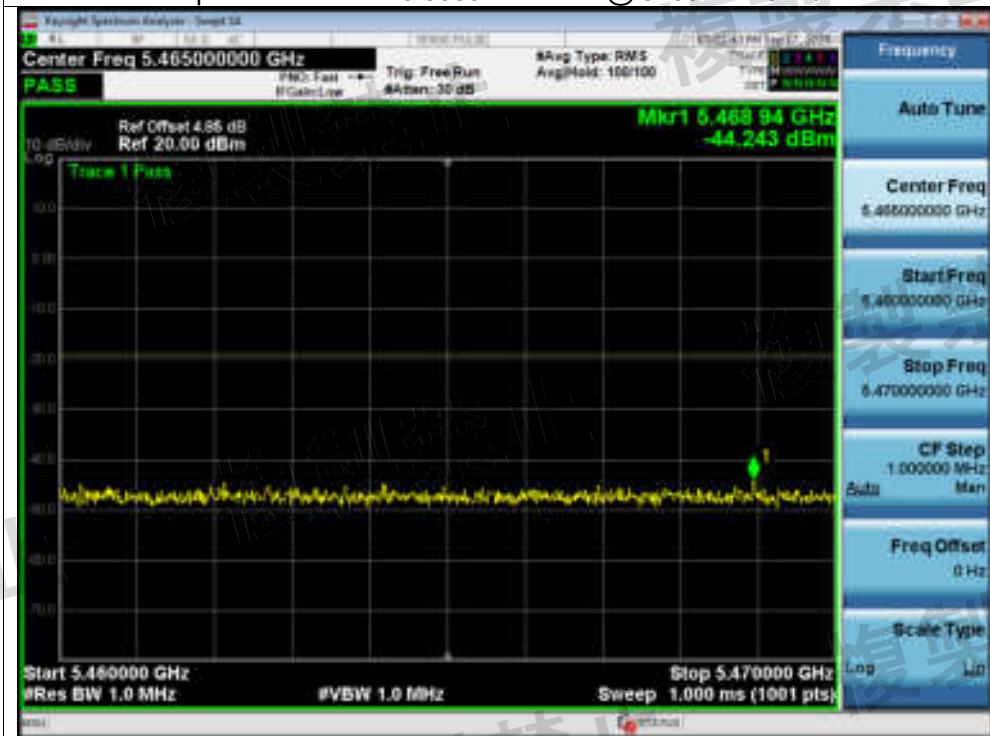
Tx. Spurious NVNT n20 5500MHz Ant1 @ 5765MHz-26000MHz



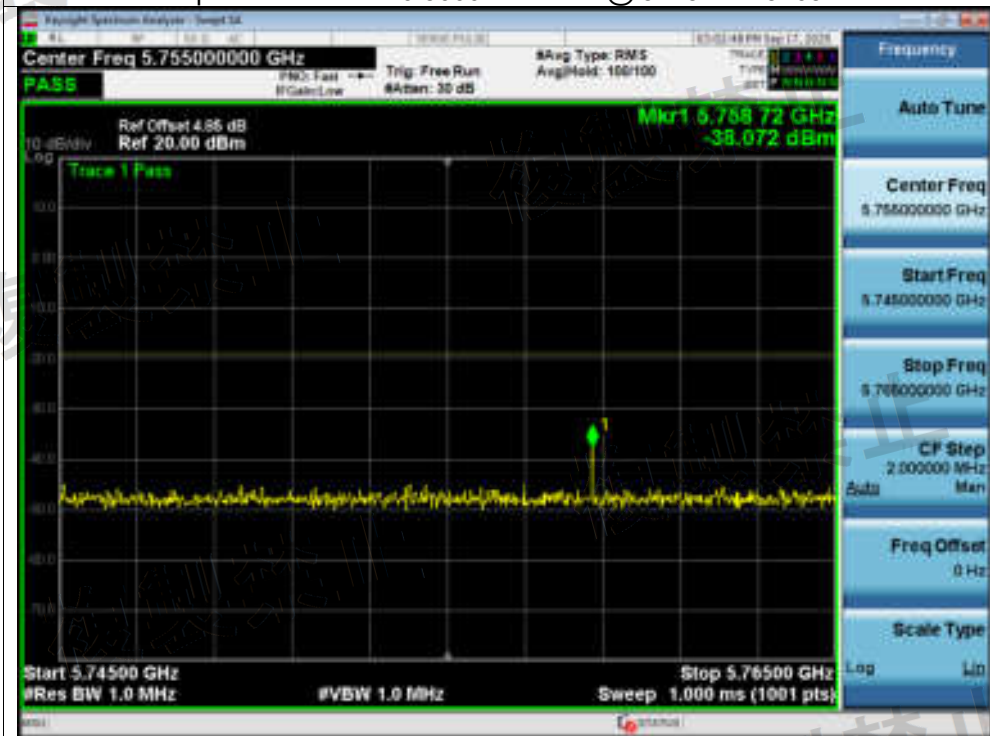
Tx. Spurious NVNT n20 5600MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT n20 5600MHz Ant1 @ 5460MHz-5470MHz



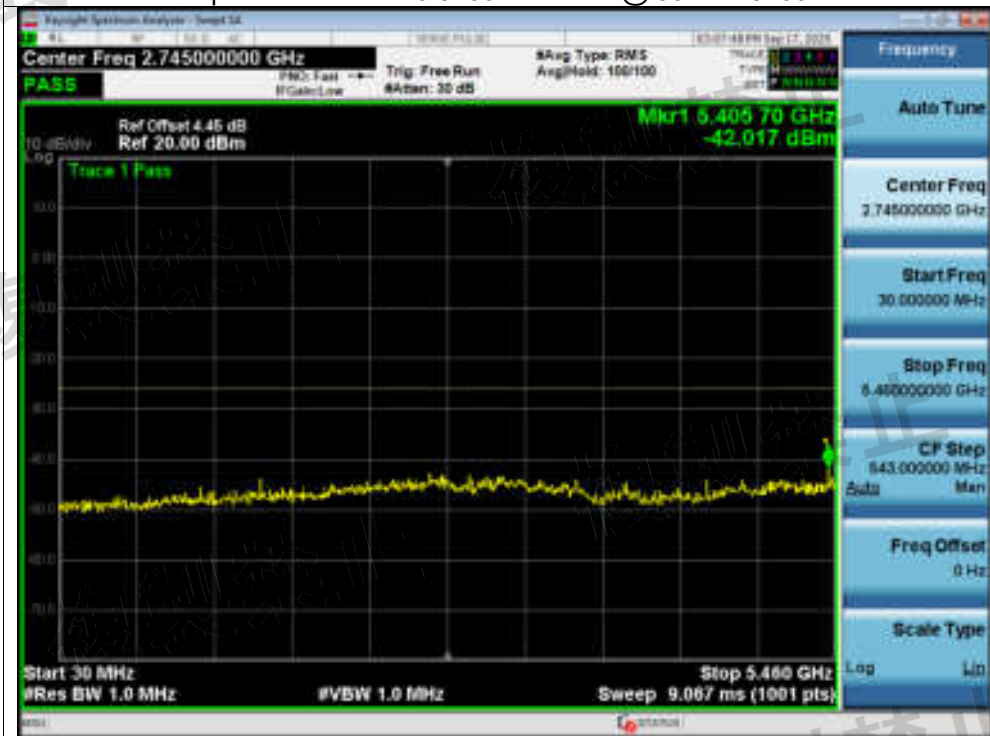
Tx. Spurious NVNT n20 5600MHz Ant1 @ 5745MHz-5765MHz



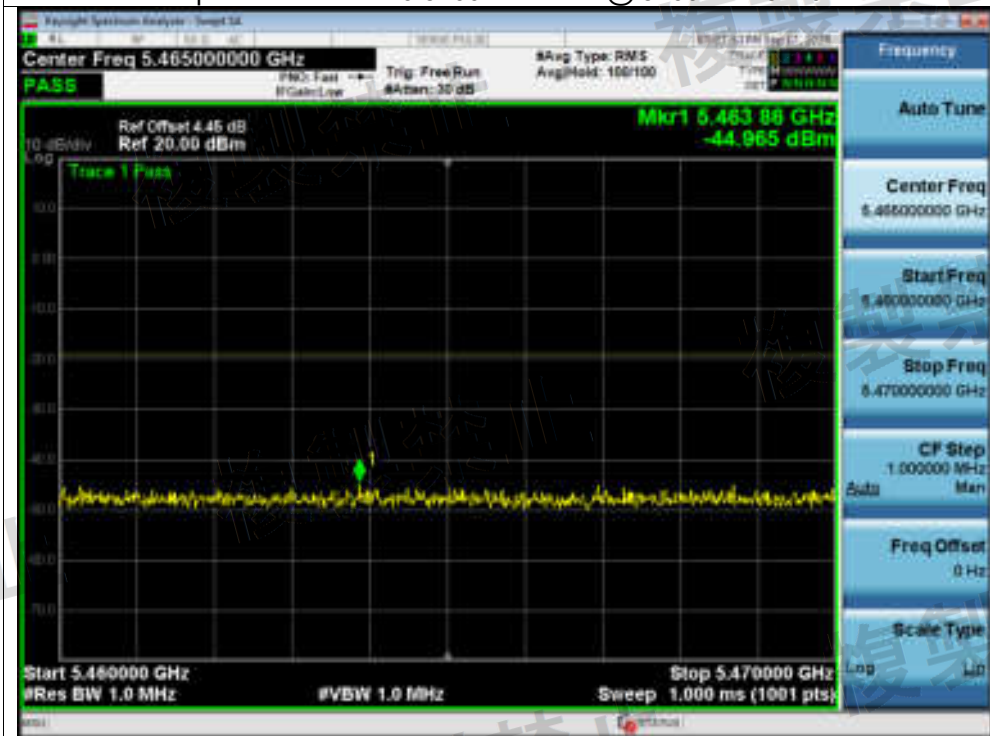
Tx. Spurious NVNT n20 5600MHz Ant1 @ 5765MHz-26000MHz



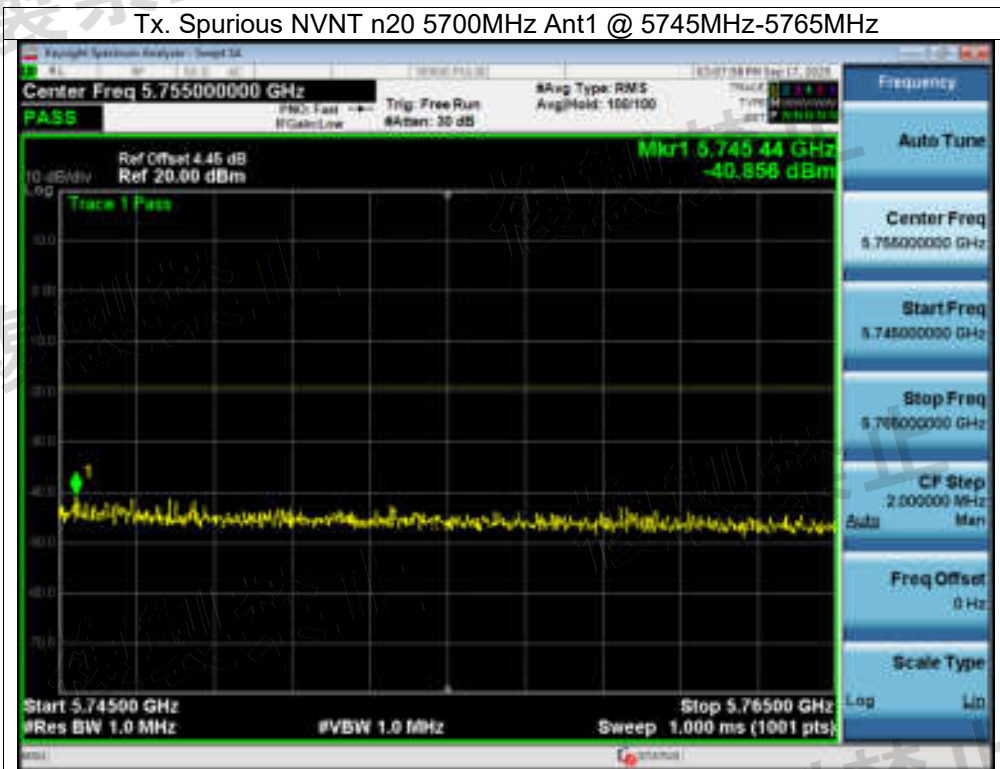
Tx. Spurious NVNT n20 5700MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT n20 5700MHz Ant1 @ 5460MHz-5470MHz



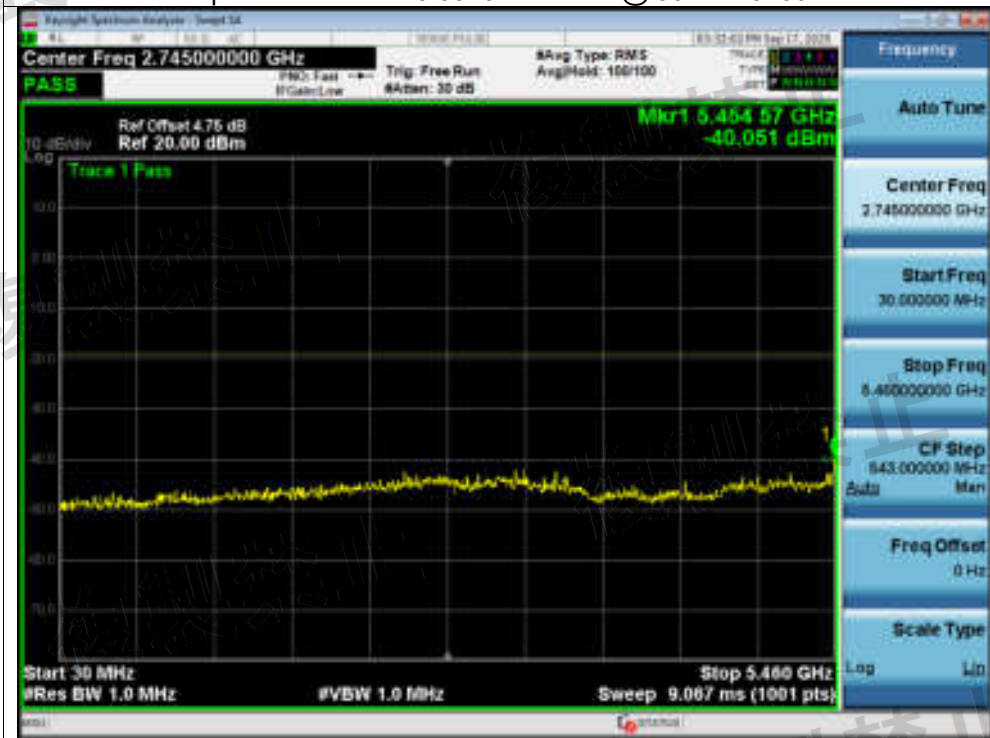
Tx. Spurious NVNT n20 5700MHz Ant1 @ 5745MHz-5765MHz



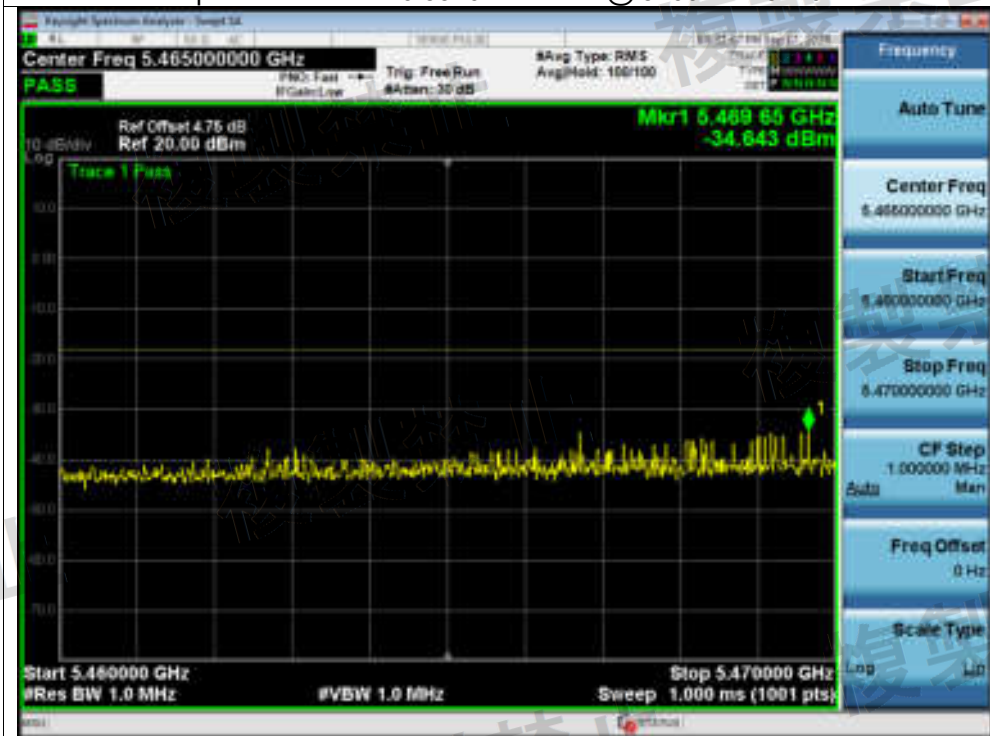
Tx. Spurious NVNT n20 5700MHz Ant1 @ 5765MHz-26000MHz



Tx. Spurious NVNT n40 5510MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT n40 5510MHz Ant1 @ 5460MHz-5470MHz



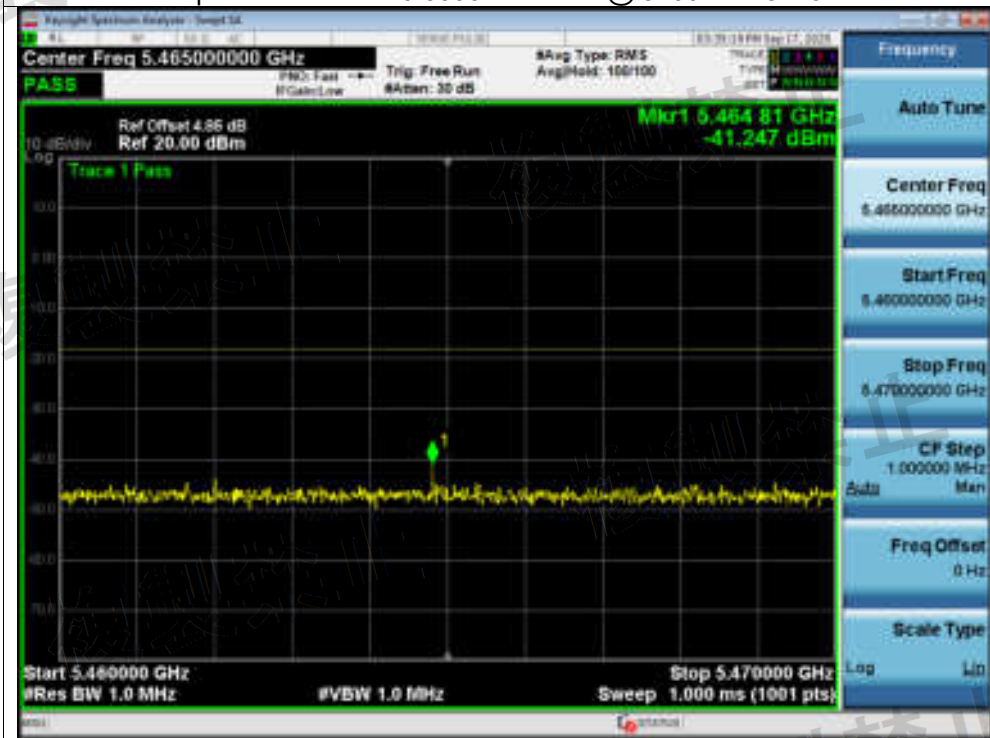
Tx. Spurious NVNT n40 5510MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT n40 5590MHz Ant1 @ 30MHz-5460MHz



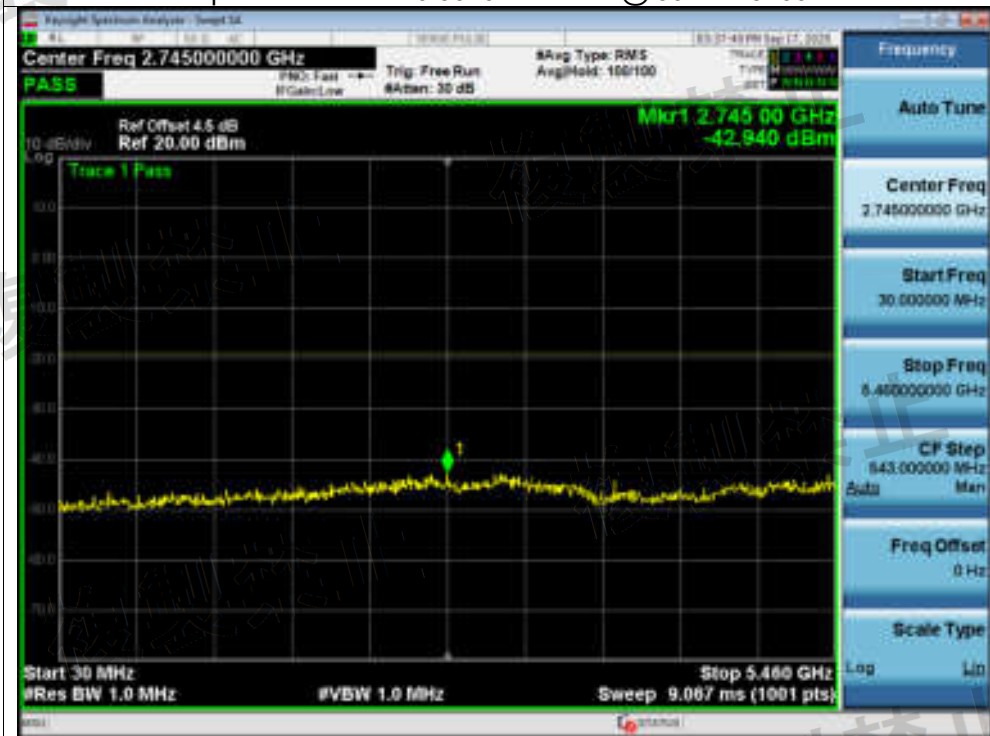
Tx. Spurious NVNT n40 5590MHz Ant1 @ 5460MHz-5470MHz



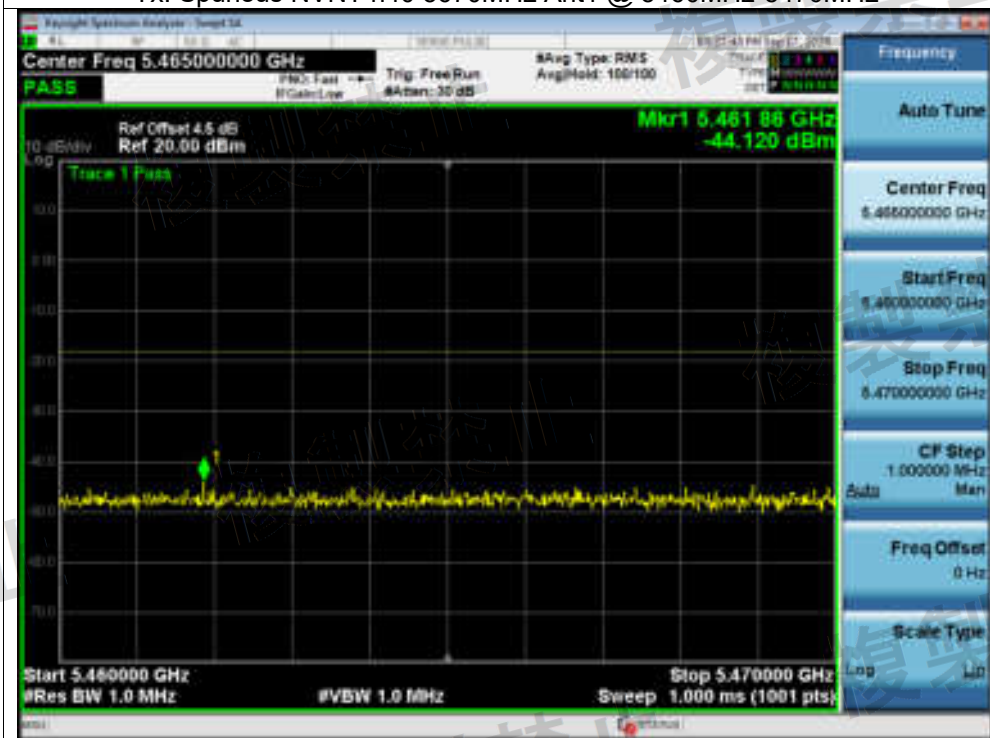
Tx. Spurious NVNT n40 5590MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT n40 5670MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT n40 5670MHz Ant1 @ 5460MHz-5470MHz



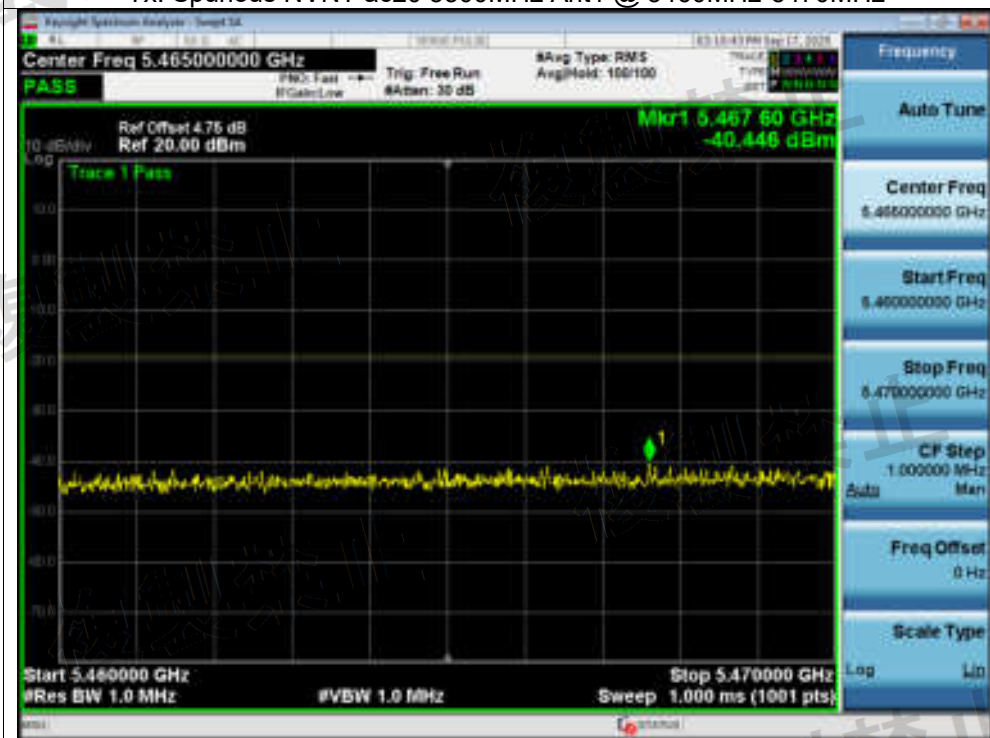
Tx. Spurious NVNT n40 5670MHz Ant1 @ 5770MHz-26000MHz



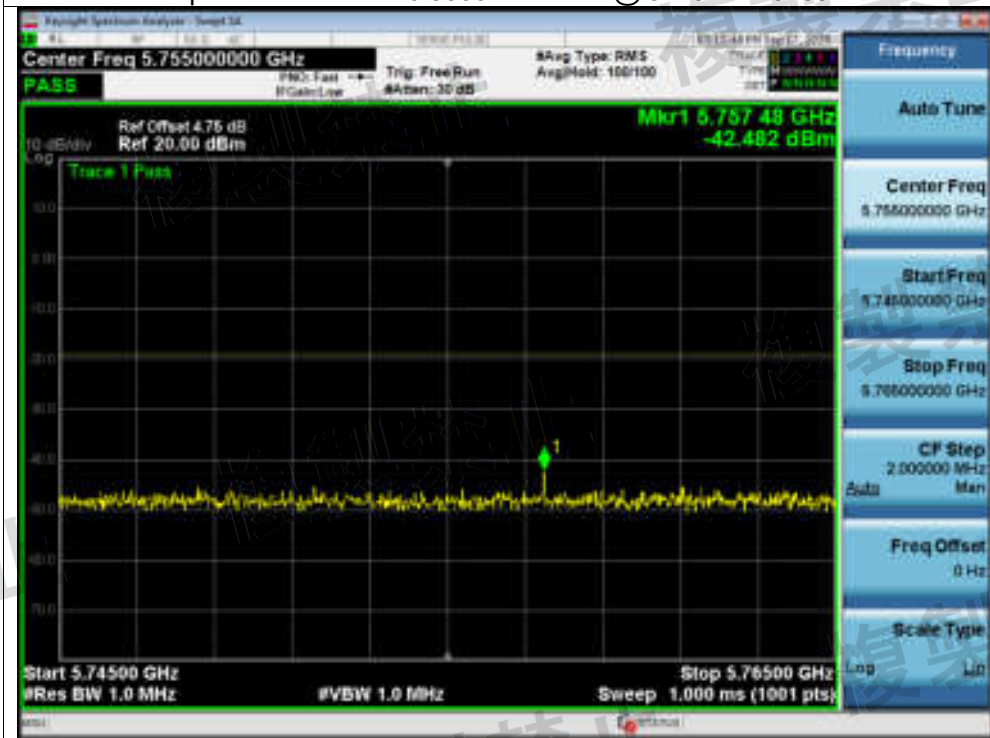
Tx. Spurious NVNT ac20 5500MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac20 5500MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT ac20 5500MHz Ant1 @ 5745MHz-5765MHz



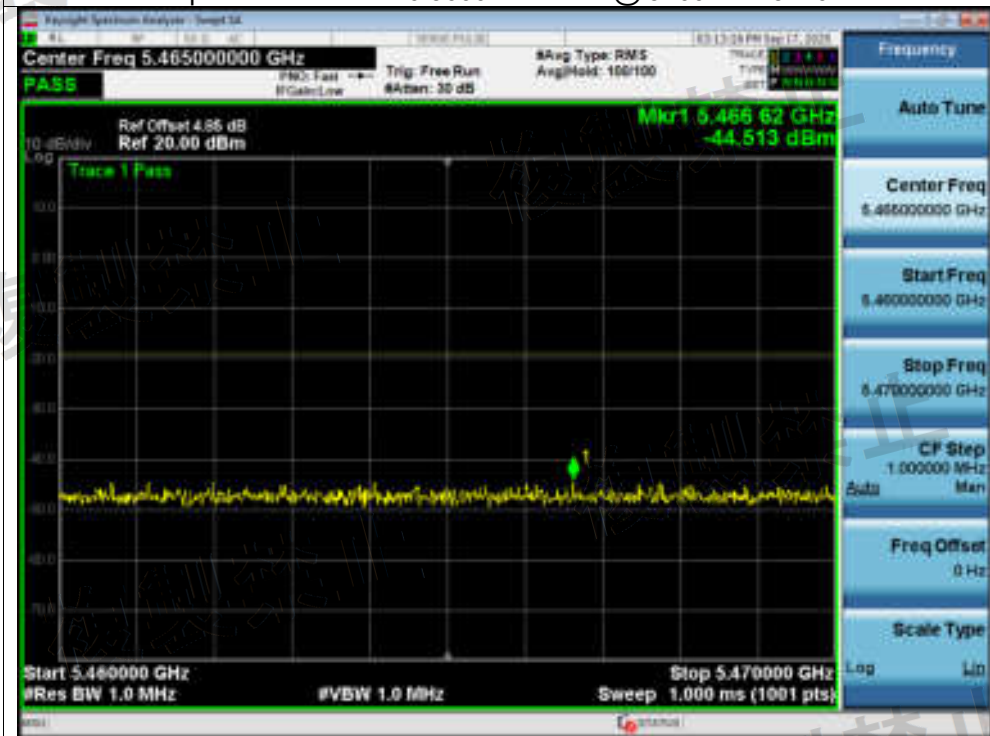
Tx. Spurious NVNT ac20 5500MHz Ant1 @ 5765MHz-26000MHz



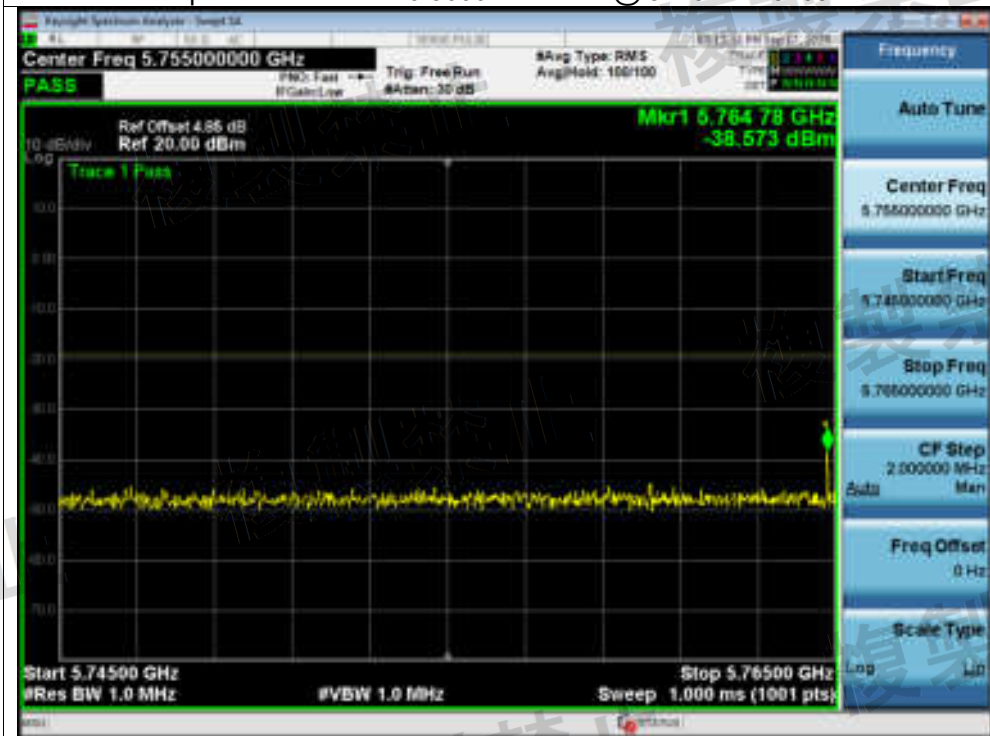
Tx. Spurious NVNT ac20 5600MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac20 5600MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT ac20 5600MHz Ant1 @ 5745MHz-5765MHz



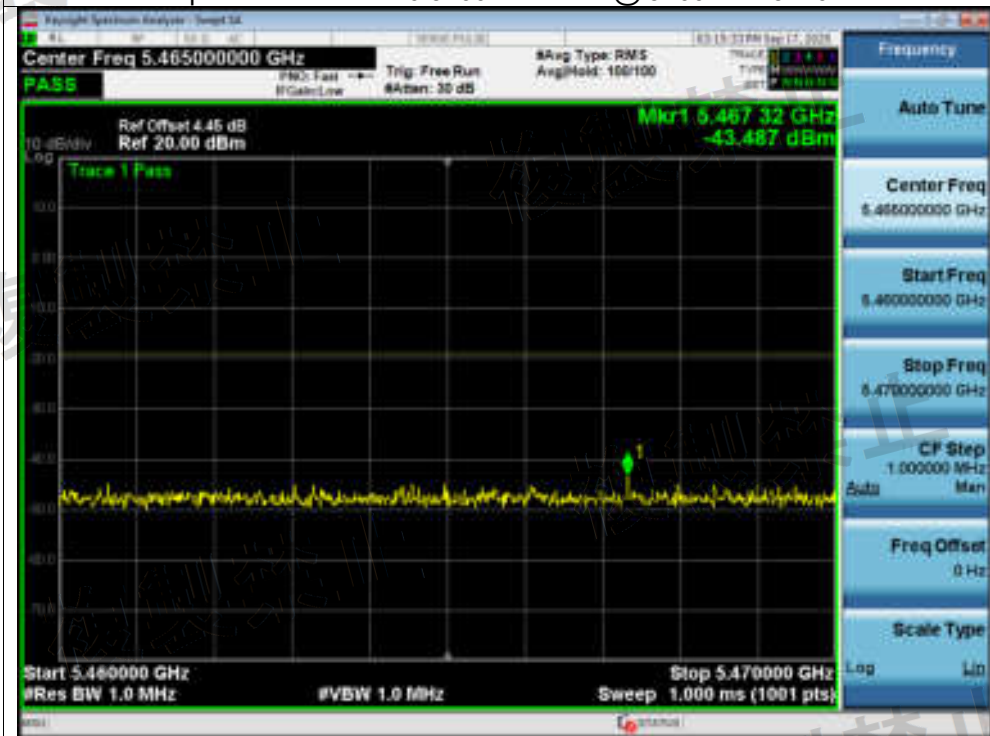
Tx. Spurious NVNT ac20 5600MHz Ant1 @ 5765MHz-26000MHz



Tx. Spurious NVNT ac20 5700MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac20 5700MHz Ant1 @ 5460MHz-5470MHz



Tx. Spurious NVNT ac20 5700MHz Ant1 @ 5745MHz-5765MHz



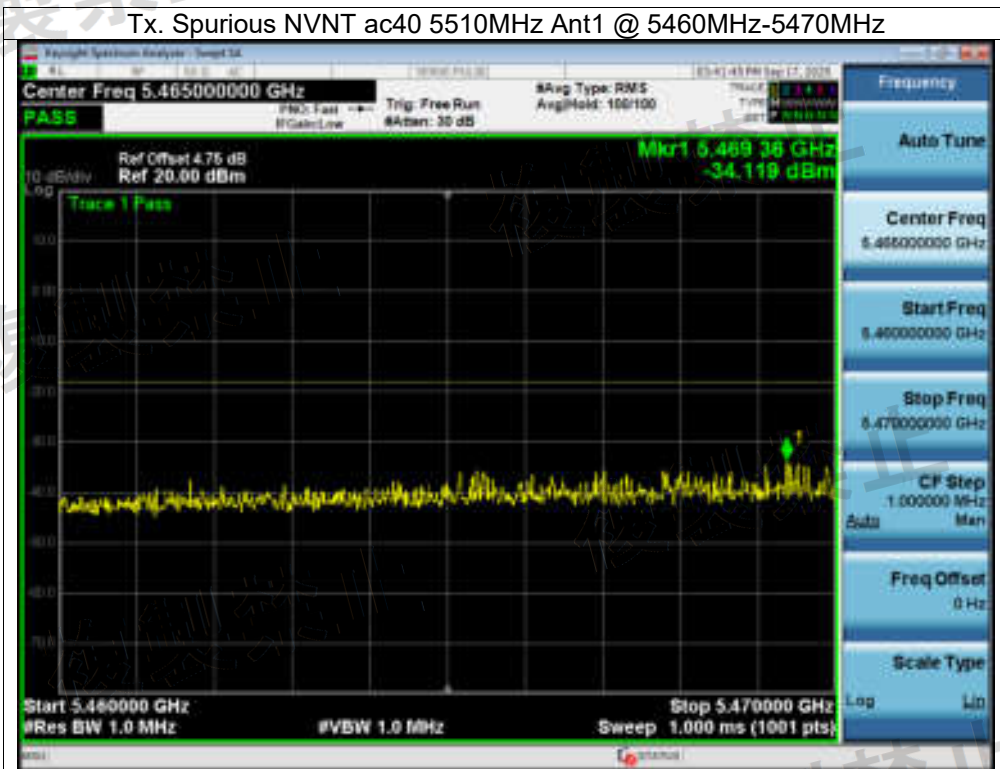
Tx. Spurious NVNT ac20 5700MHz Ant1 @ 5765MHz-26000MHz



Tx. Spurious NVNT ac40 5510MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac40 5510MHz Ant1 @ 5460MHz-5470MHz



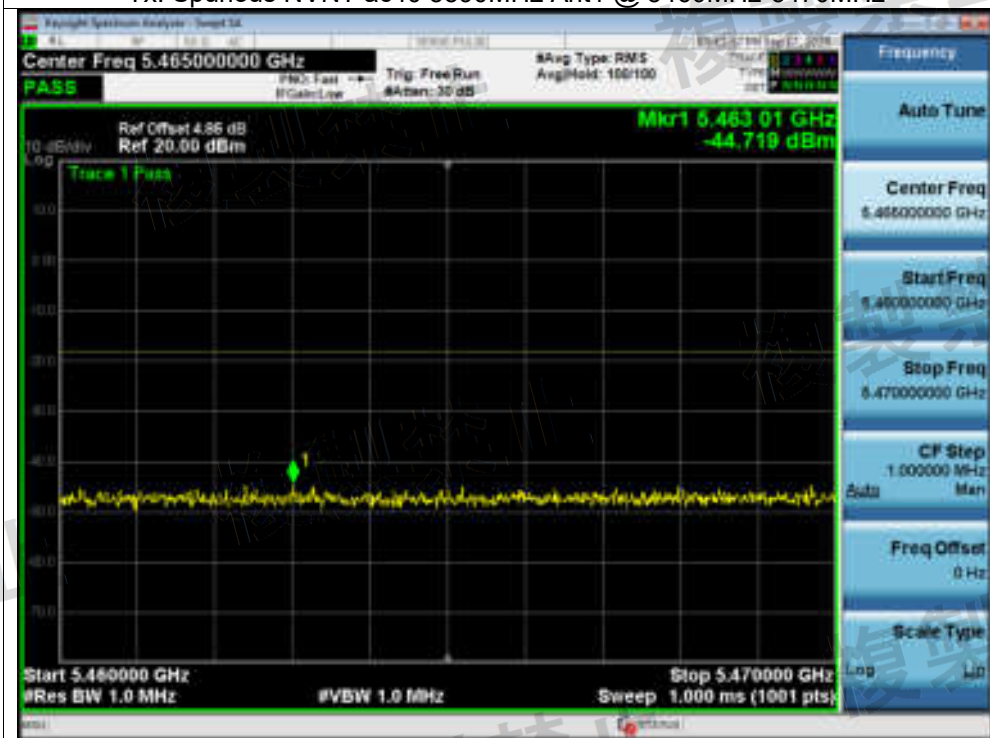
Tx. Spurious NVNT ac40 5510MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT ac40 5590MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac40 5590MHz Ant1 @ 5460MHz-5470MHz



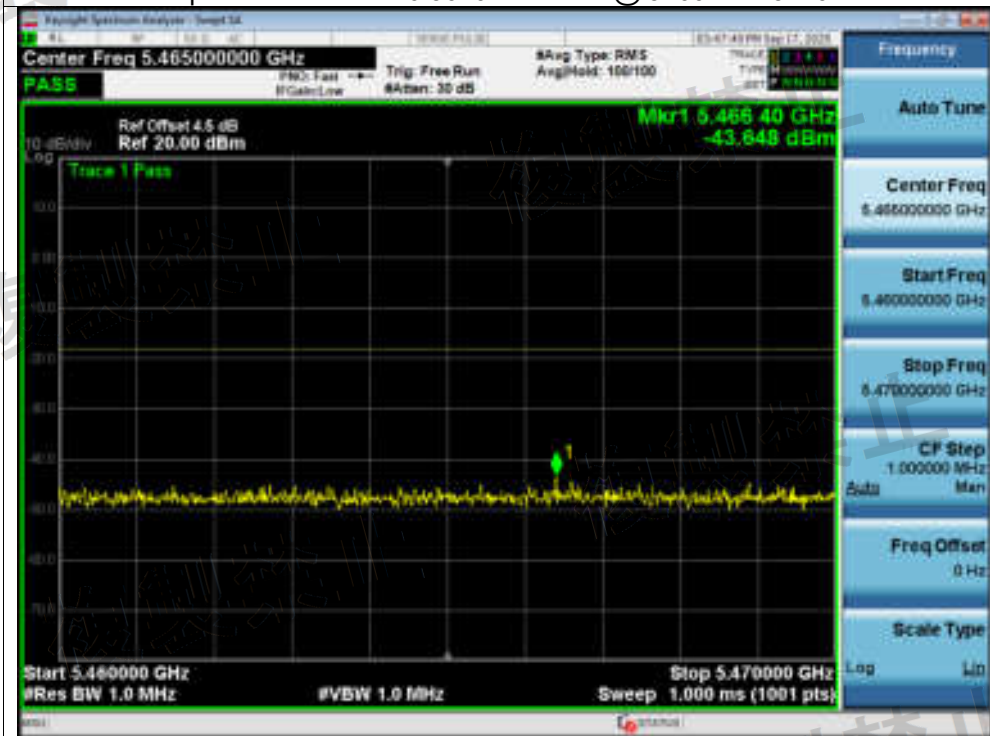
Tx. Spurious NVNT ac40 5590MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT ac40 5670MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac40 5670MHz Ant1 @ 5460MHz-5470MHz



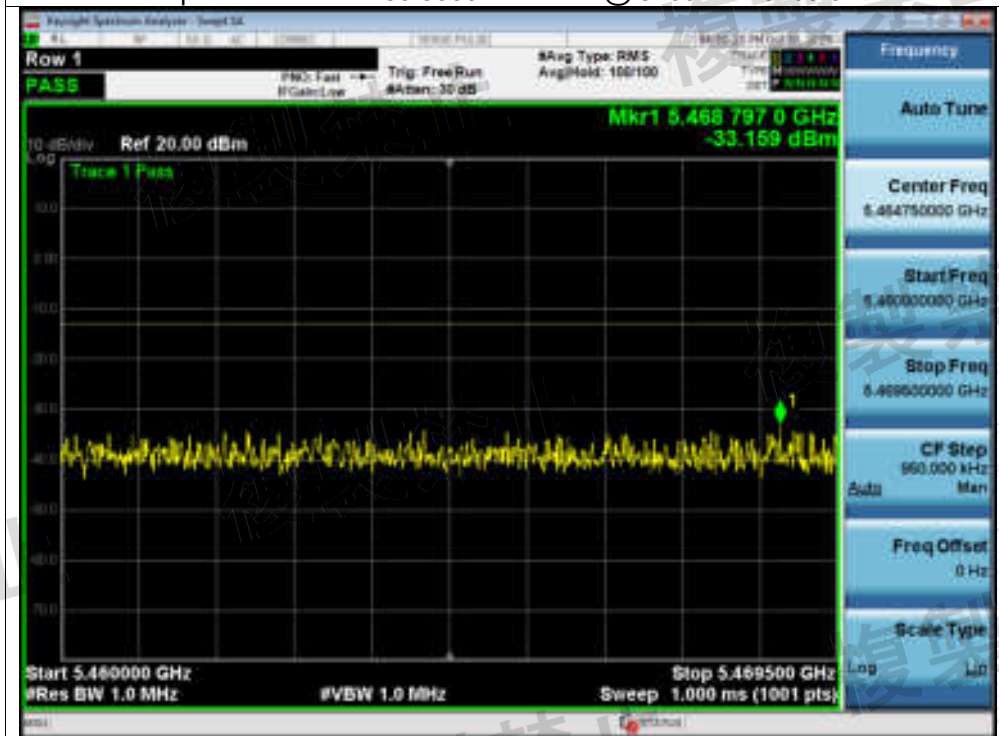
Tx. Spurious NVNT ac40 5670MHz Ant1 @ 5770MHz-26000MHz



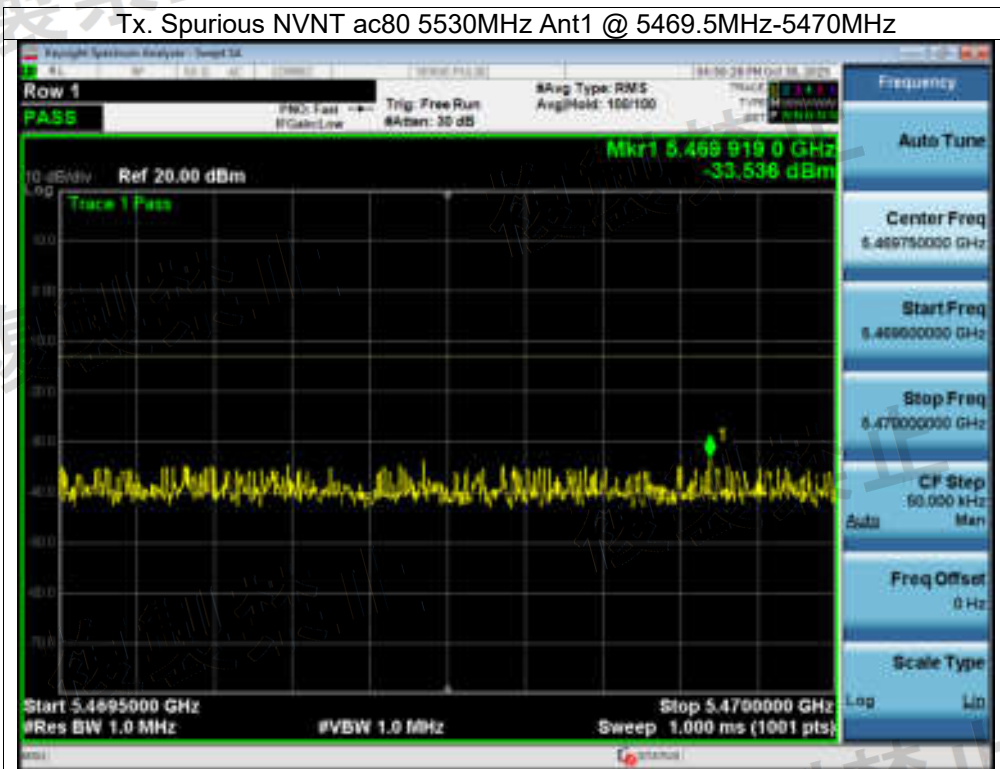
Tx. Spurious NVNT ac80 5530MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac80 5530MHz Ant1 @ 5460MHz-5469.5MHz



Tx. Spurious NVNT ac80 5530MHz Ant1 @ 5469.5MHz-5470MHz



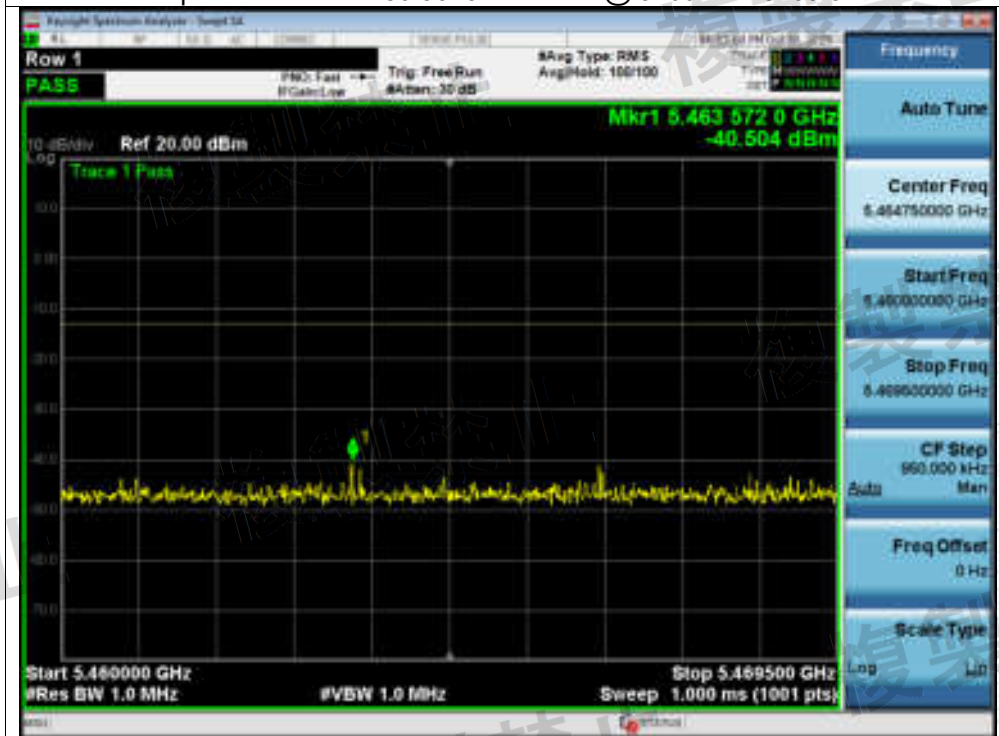
Tx. Spurious NVNT ac80 5530MHz Ant1 @ 5770MHz-26000MHz



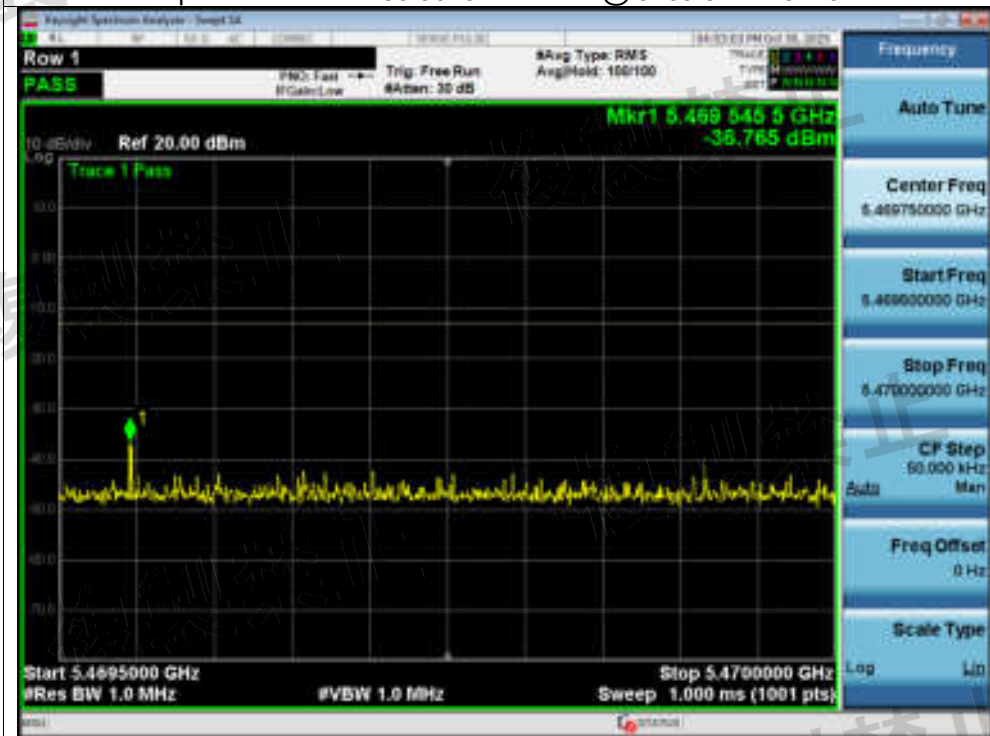
Tx. Spurious NVNT ac80 5610MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ac80 5610MHz Ant1 @ 5460MHz-5469.5MHz



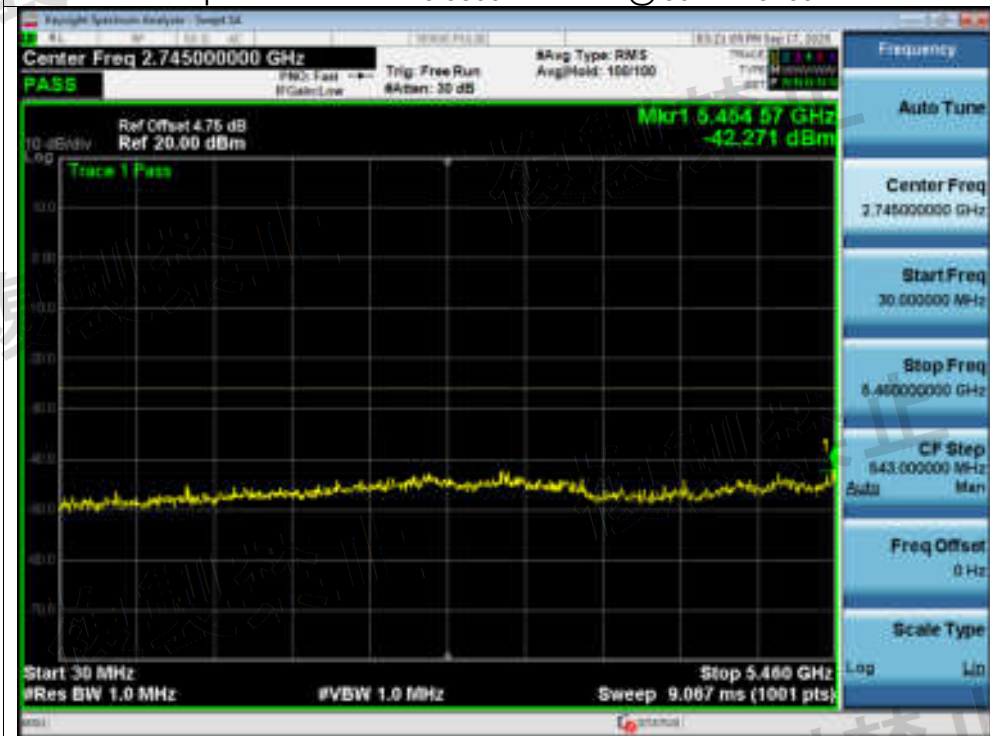
Tx. Spurious NVNT ac80 5610MHz Ant1 @ 5469.5MHz-5470MHz



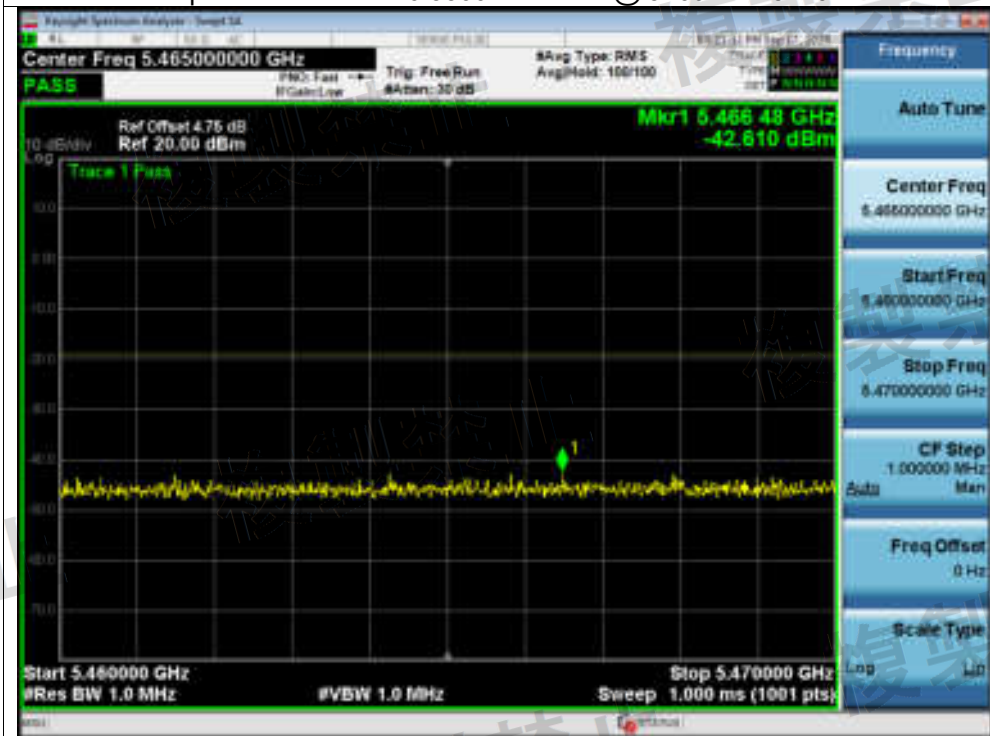
Tx. Spurious NVNT ac80 5610MHz Ant1 @ 5770MHz-26000MHz



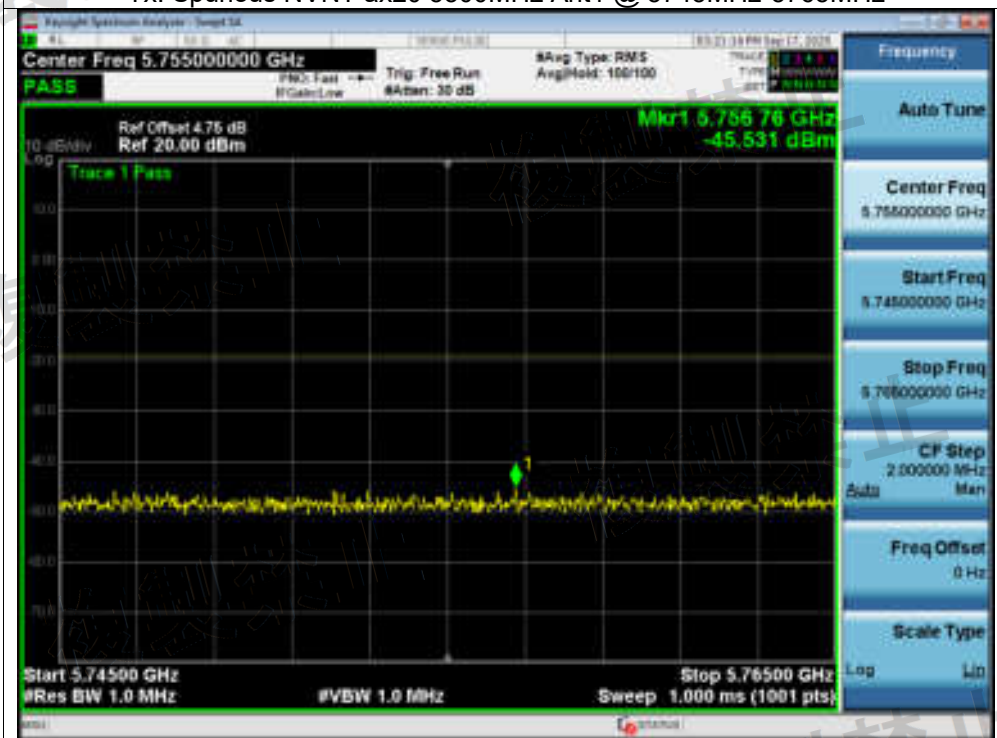
Tx. Spurious NVNT ax20 5500MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax20 5500MHz Ant1 @ 5460MHz-5470MHz



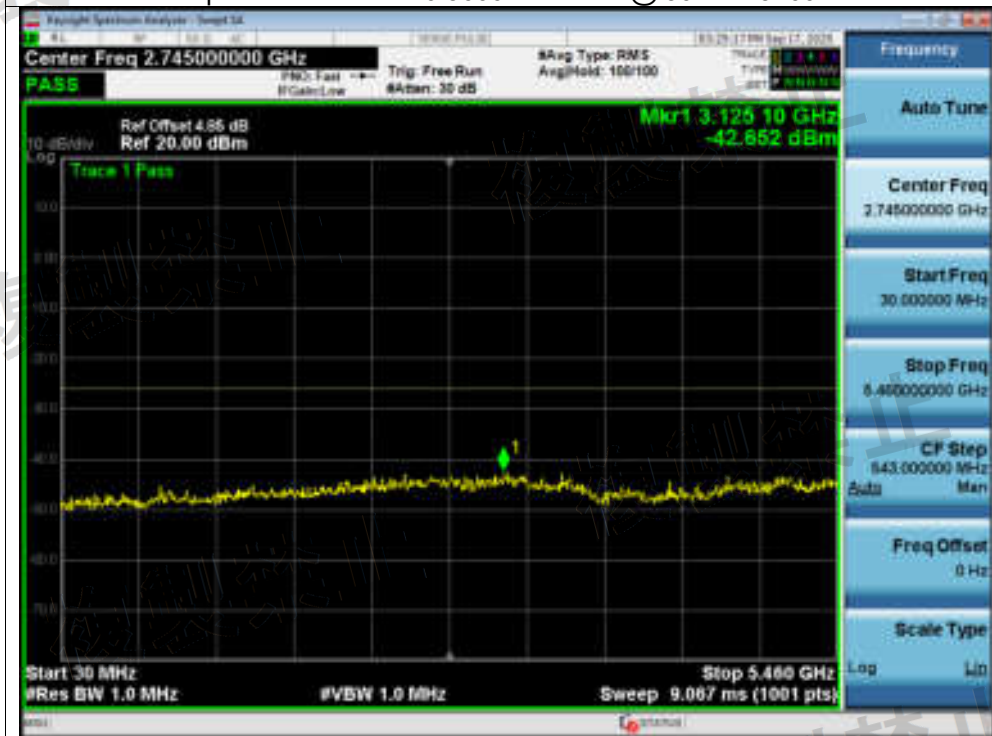
Tx. Spurious NVNT ax20 5500MHz Ant1 @ 5745MHz-5765MHz



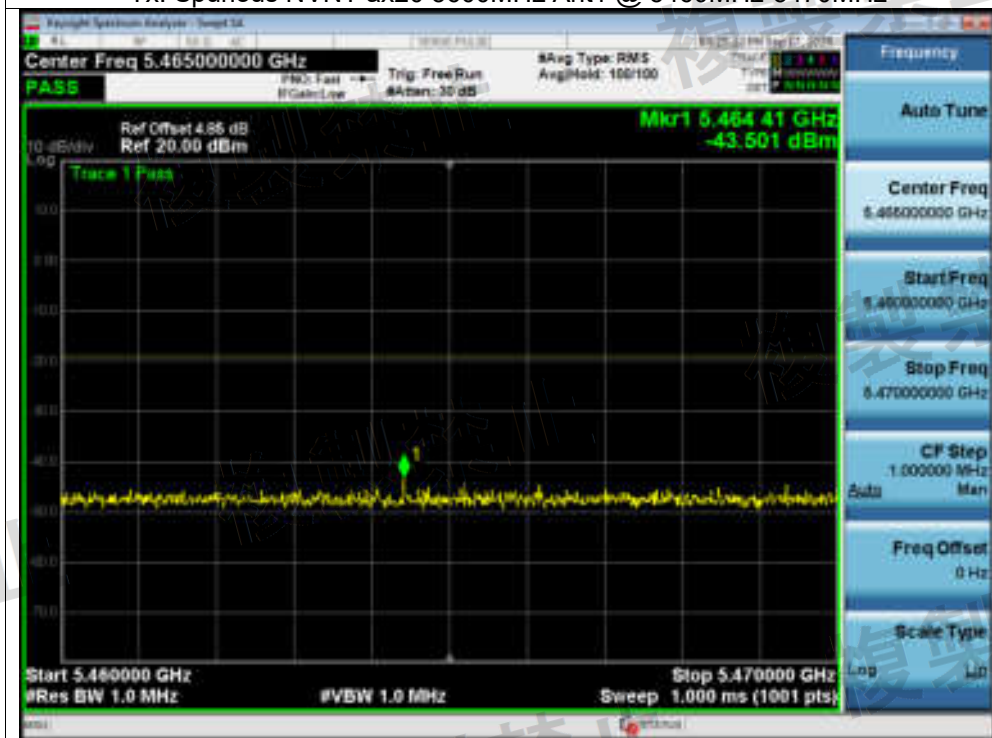
Tx. Spurious NVNT ax20 5500MHz Ant1 @ 5765MHz-26000MHz



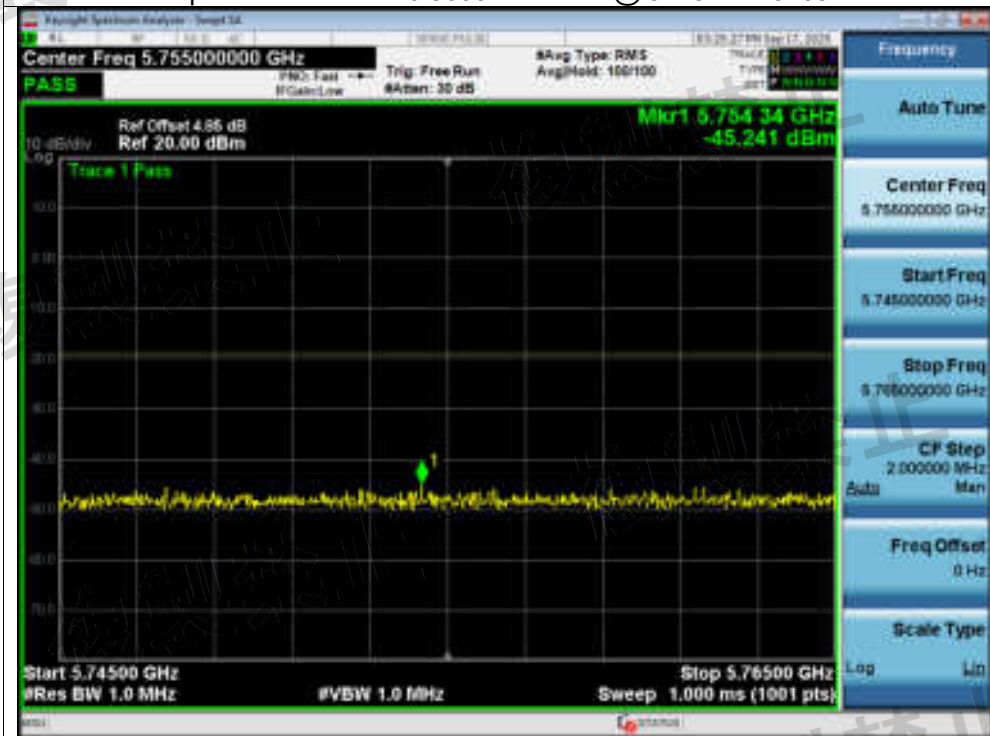
Tx. Spurious NVNT ax20 5600MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax20 5600MHz Ant1 @ 5460MHz-5470MHz



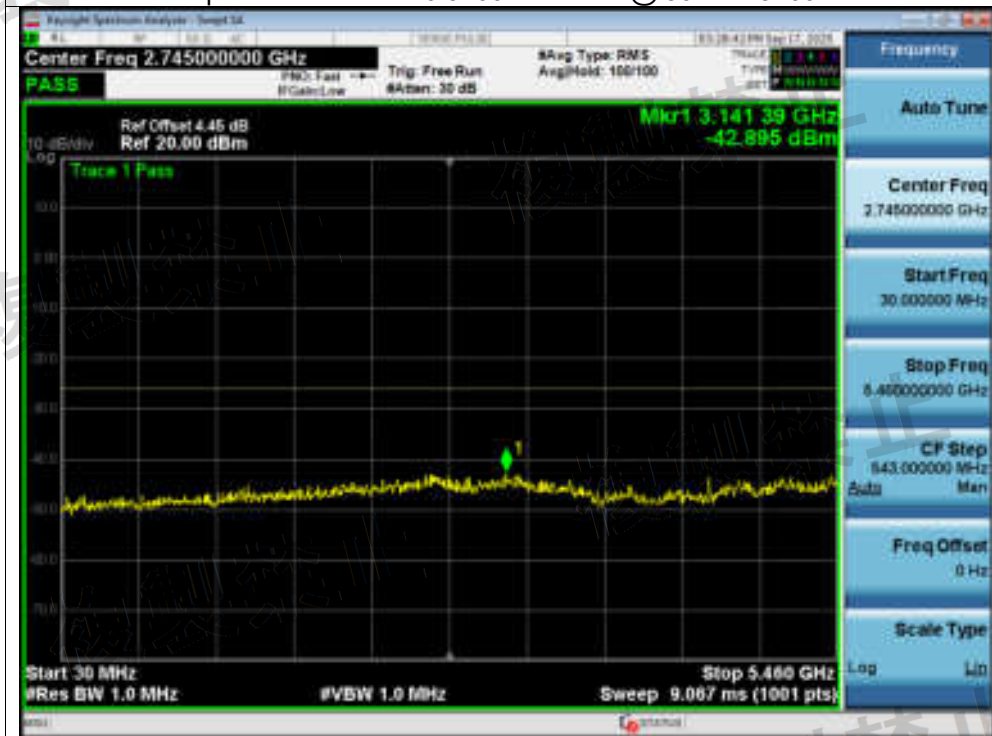
Tx. Spurious NVNT ax20 5600MHz Ant1 @ 5745MHz-5765MHz



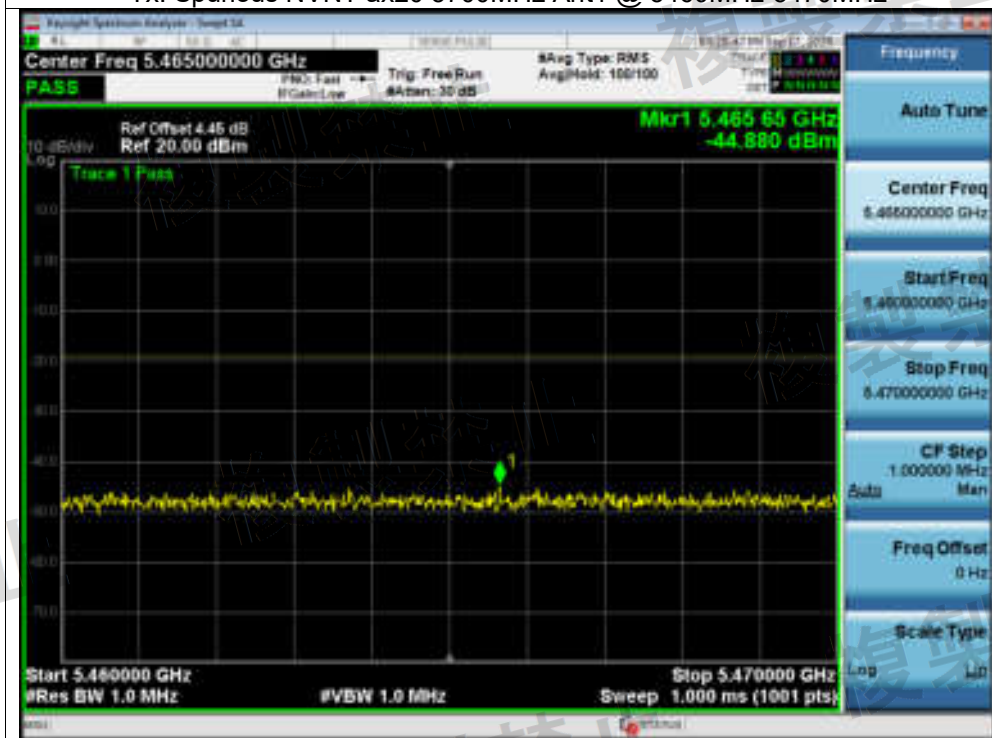
Tx. Spurious NVNT ax20 5600MHz Ant1 @ 5765MHz-26000MHz



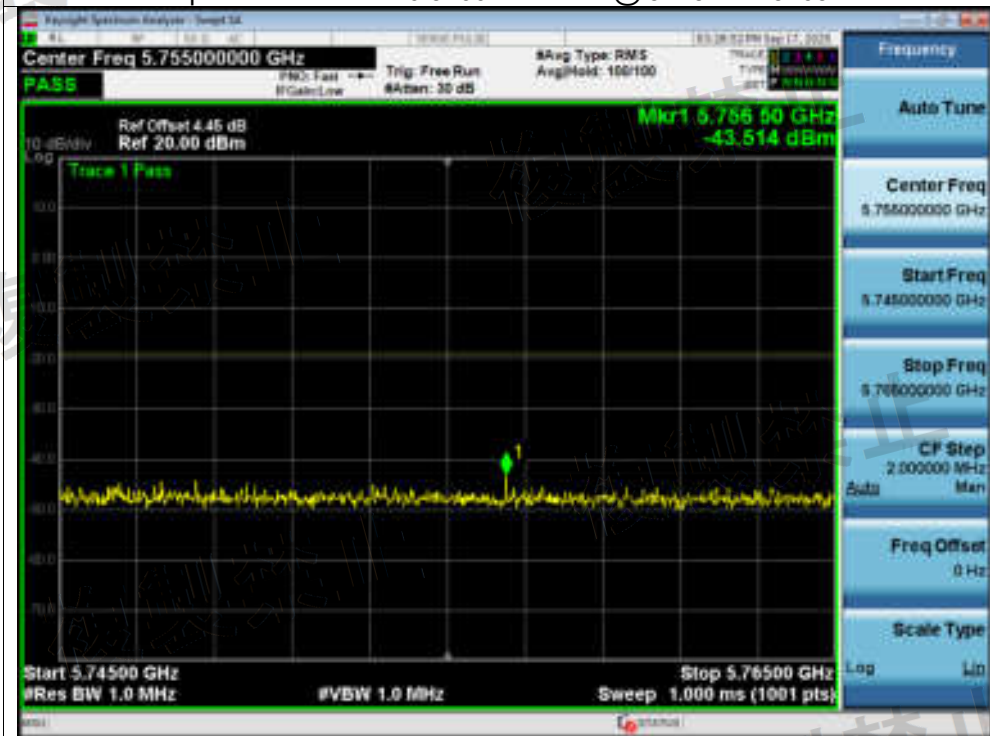
Tx. Spurious NVNT ax20 5700MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax20 5700MHz Ant1 @ 5460MHz-5470MHz



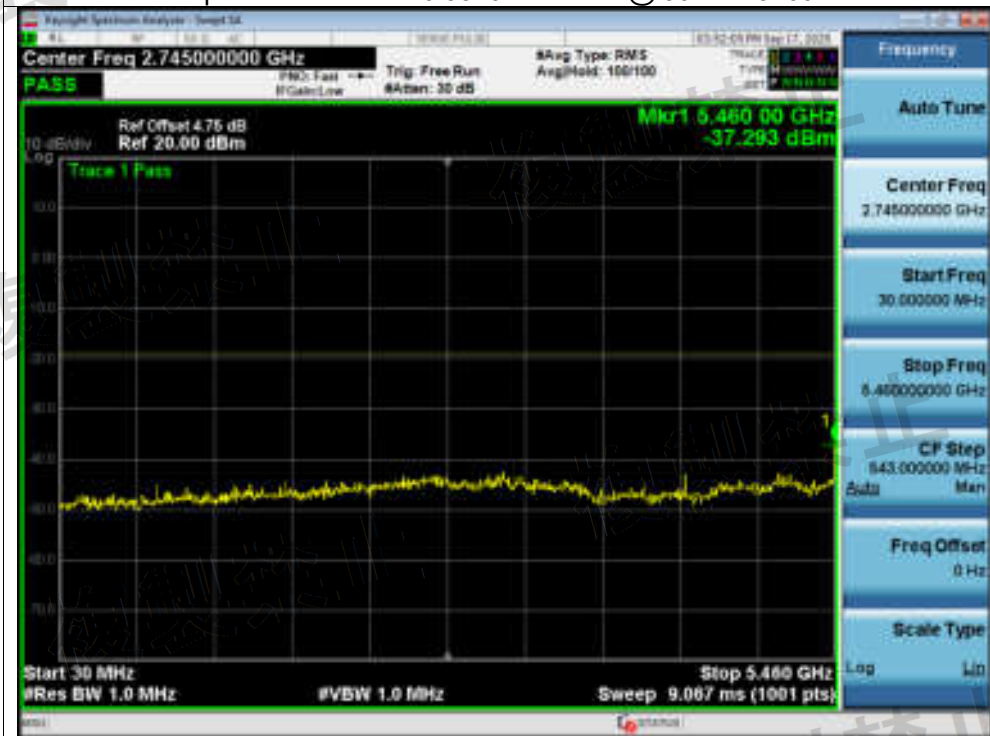
Tx. Spurious NVNT ax20 5700MHz Ant1 @ 5745MHz-5765MHz



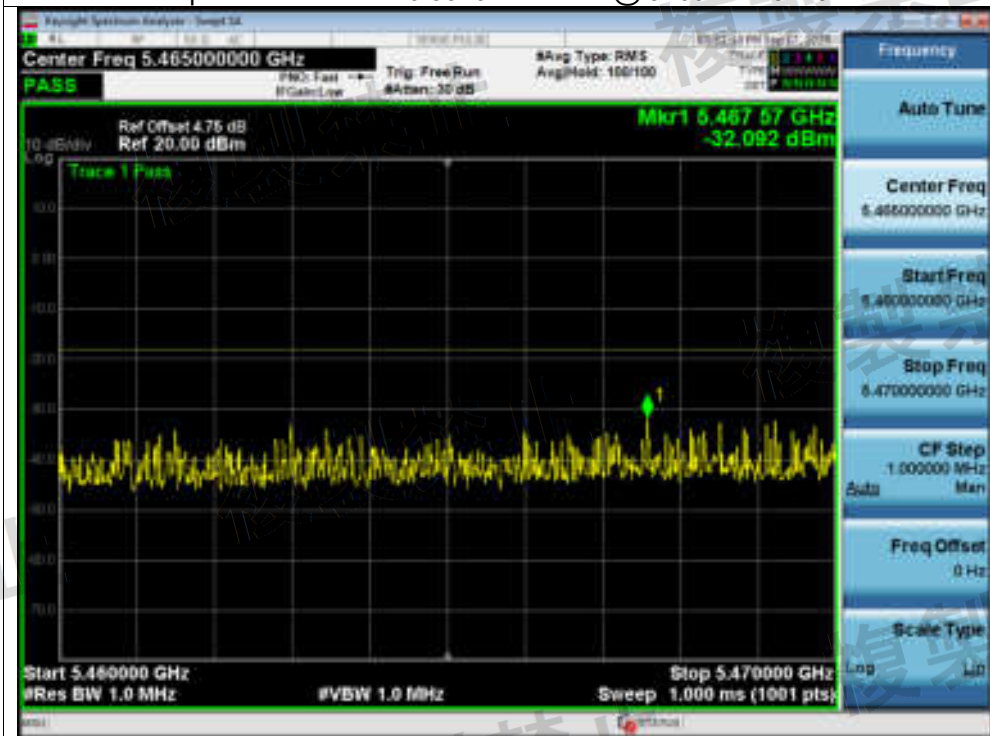
Tx. Spurious NVNT ax20 5700MHz Ant1 @ 5765MHz-26000MHz



Tx. Spurious NVNT ax40 5510MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax40 5510MHz Ant1 @ 5460MHz-5470MHz



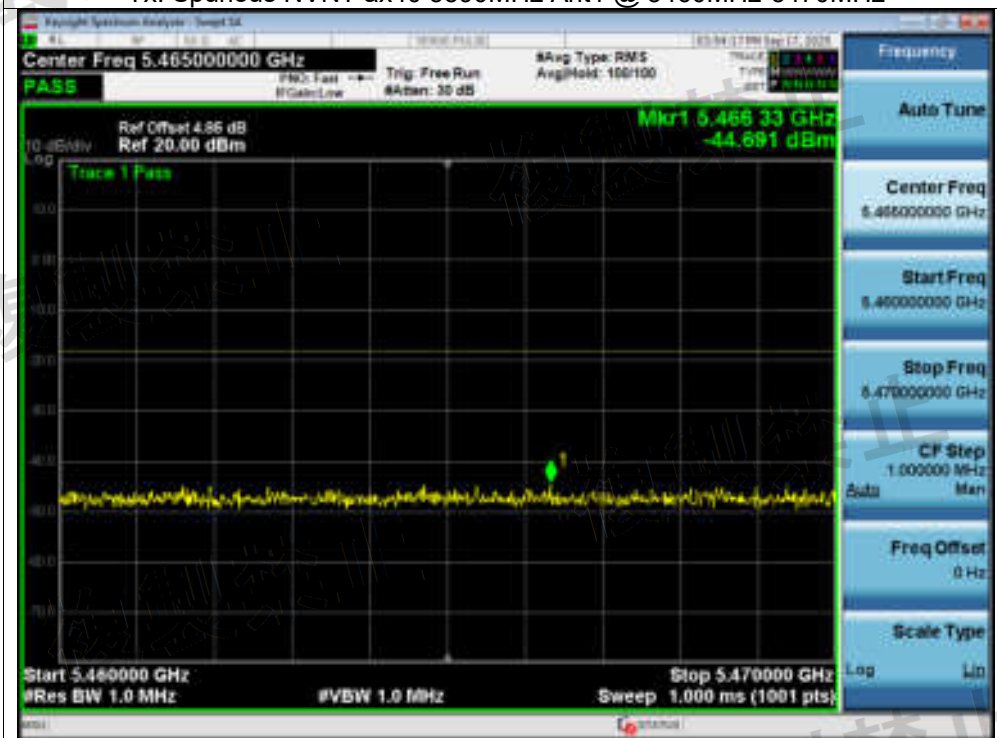
Tx. Spurious NVNT ax40 5510MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT ax40 5590MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax40 5590MHz Ant1 @ 5460MHz-5470MHz



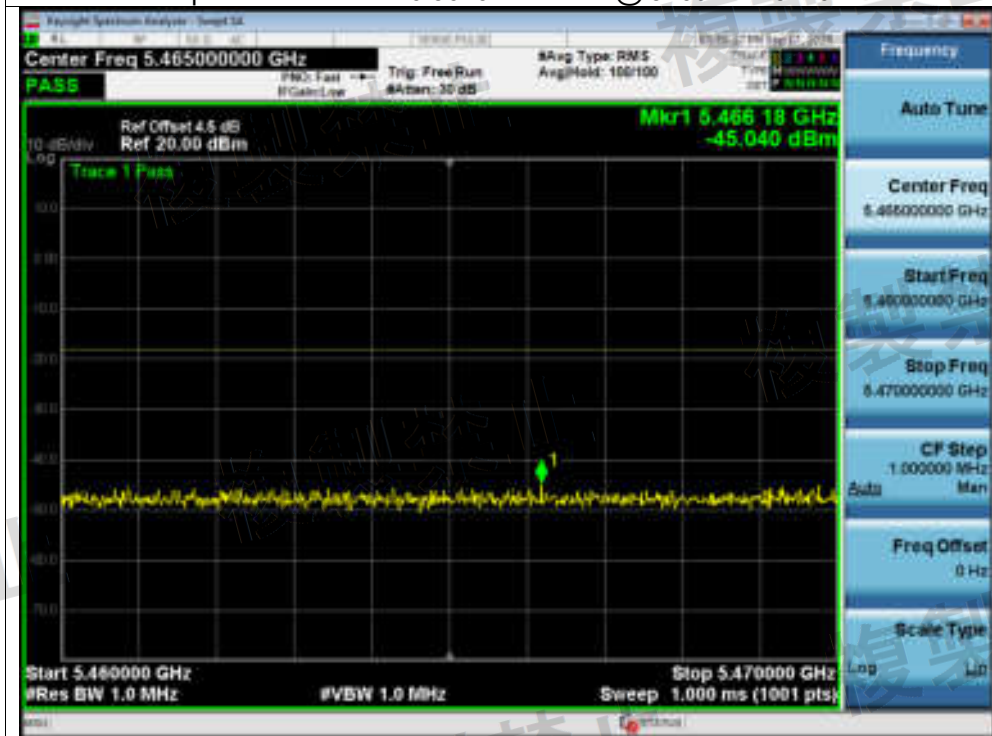
Tx. Spurious NVNT ax40 5590MHz Ant1 @ 5770MHz-26000MHz



Tx. Spurious NVNT ax40 5670MHz Ant1 @ 30MHz-5460MHz



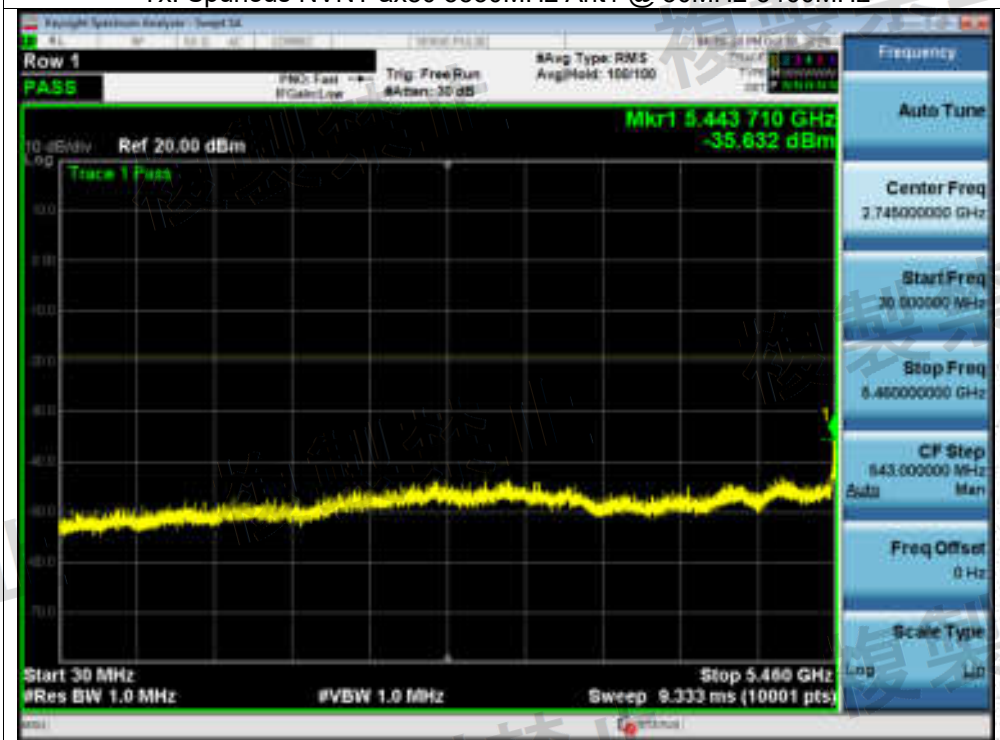
Tx. Spurious NVNT ax40 5670MHz Ant1 @ 5460MHz-5470MHz



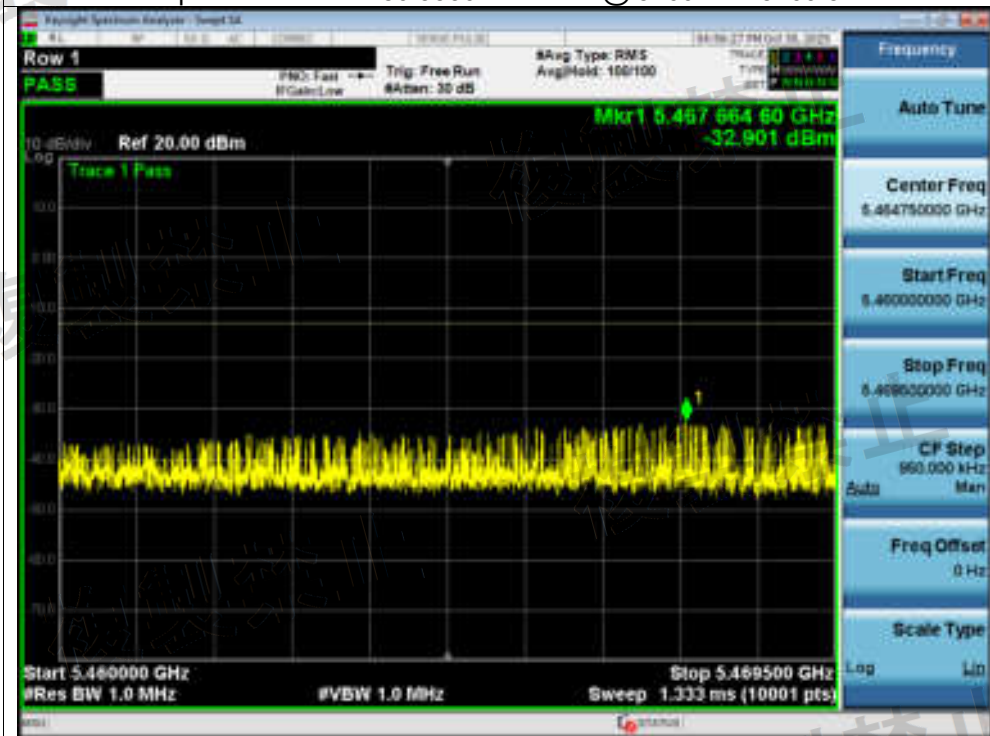
Tx. Spurious NVNT ax40 5670MHz Ant1 @ 5770MHz-26000MHz



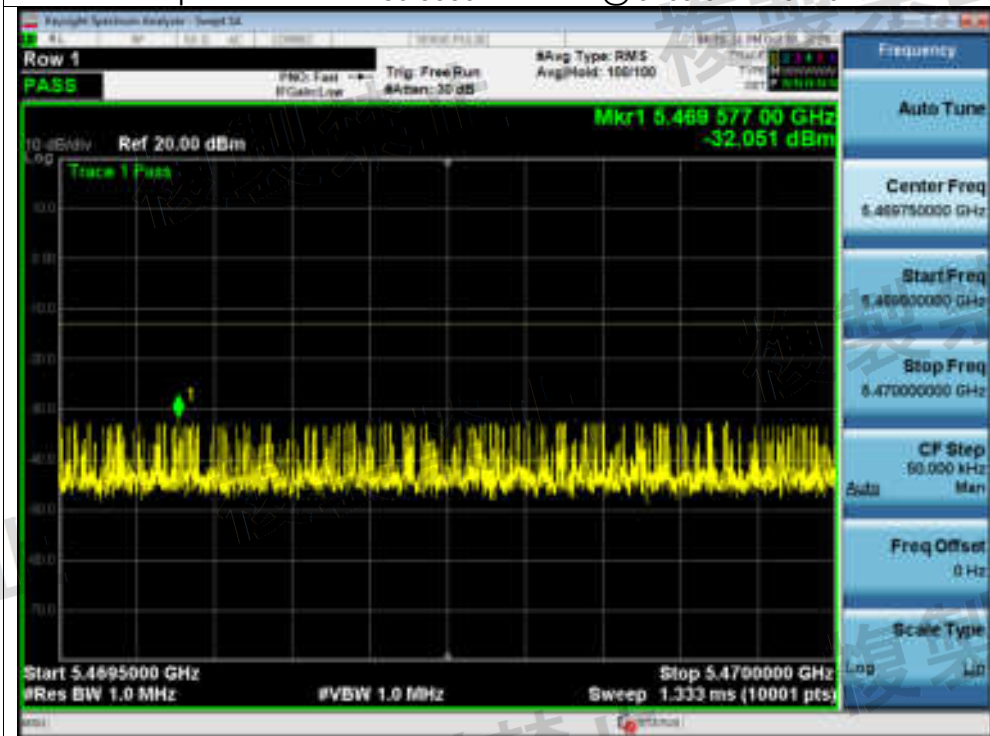
Tx. Spurious NVNT ax80 5530MHz Ant1 @ 30MHz-5460MHz



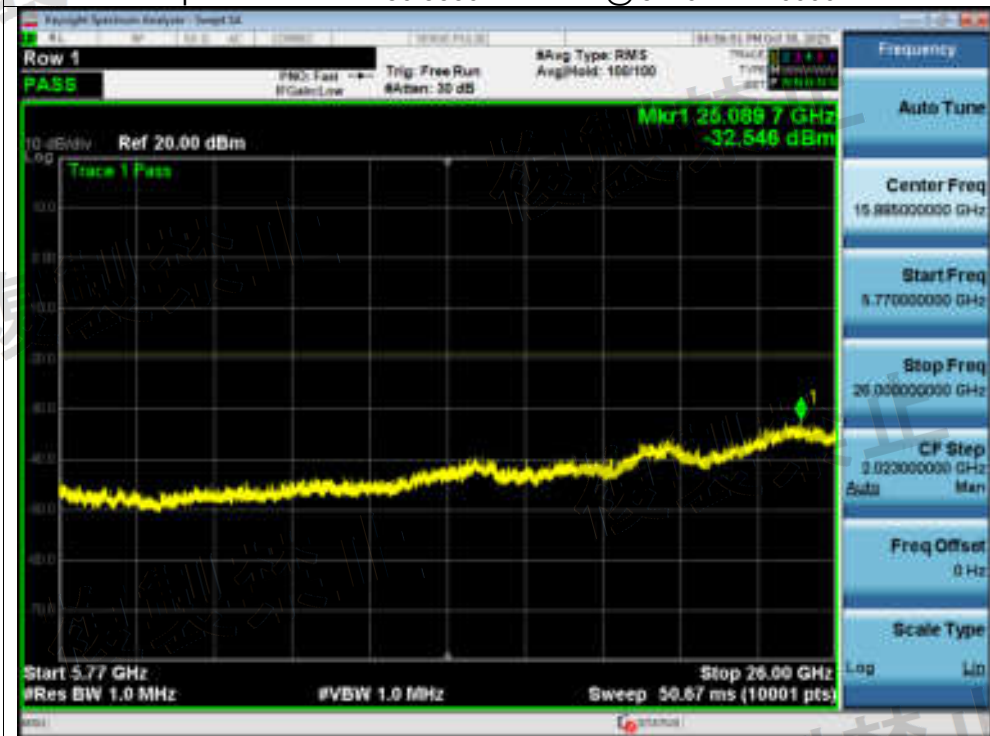
Tx. Spurious NVNT ax80 5530MHz Ant1 @ 5460MHz-5469.5MHz



Tx. Spurious NVNT ax80 5530MHz Ant1 @ 5469.5MHz-5470MHz



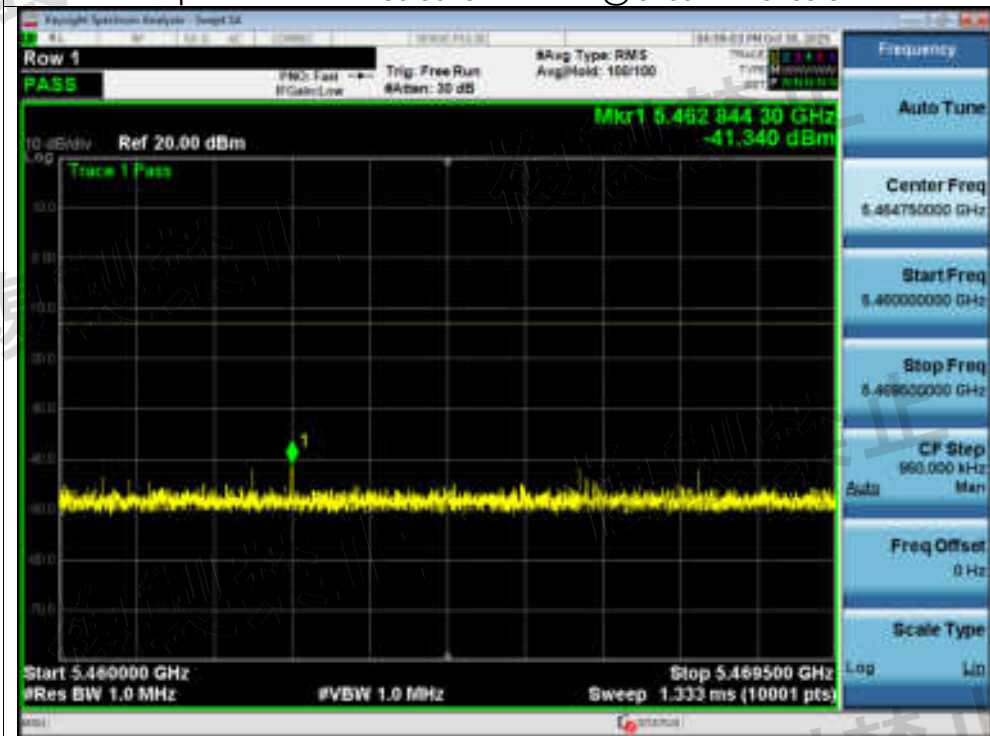
Tx. Spurious NVNT ax80 5530MHz Ant1 @ 5770MHz-26000MHz



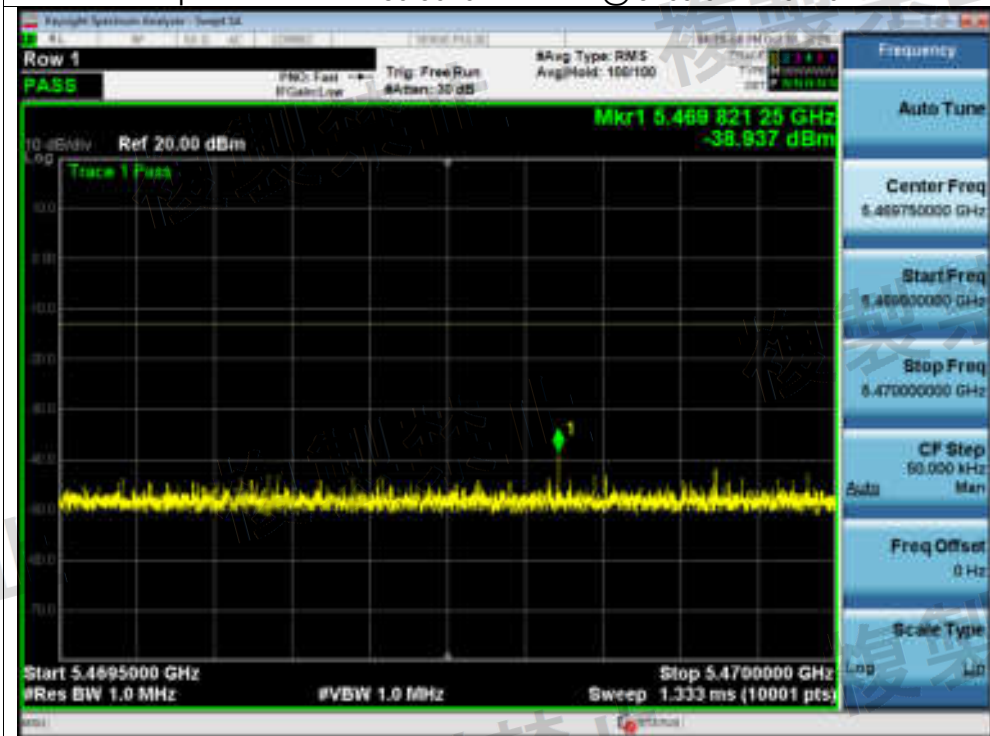
Tx. Spurious NVNT ax80 5610MHz Ant1 @ 30MHz-5460MHz



Tx. Spurious NVNT ax80 5610MHz Ant1 @ 5460MHz-5469.5MHz



Tx. Spurious NVNT ax80 5610MHz Ant1 @ 5469.5MHz-5470MHz

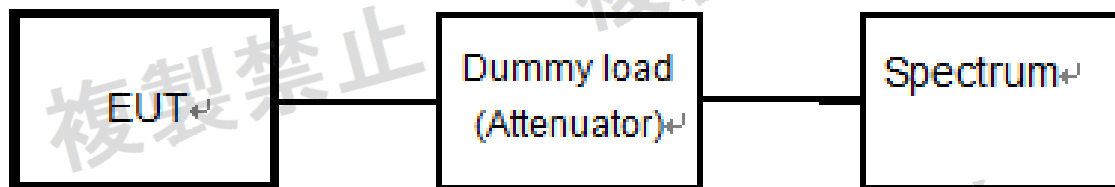


Tx. Spurious NVNT ax80 5610MHz Ant1 @ 5770MHz-26000MHz



11. Secondary Radiated Emissions Measurement

11.1 Block Diagram Of Test Setup



11.2 Limit

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

11.3 Measuring Instruments And Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

11.4 Test Procedure

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

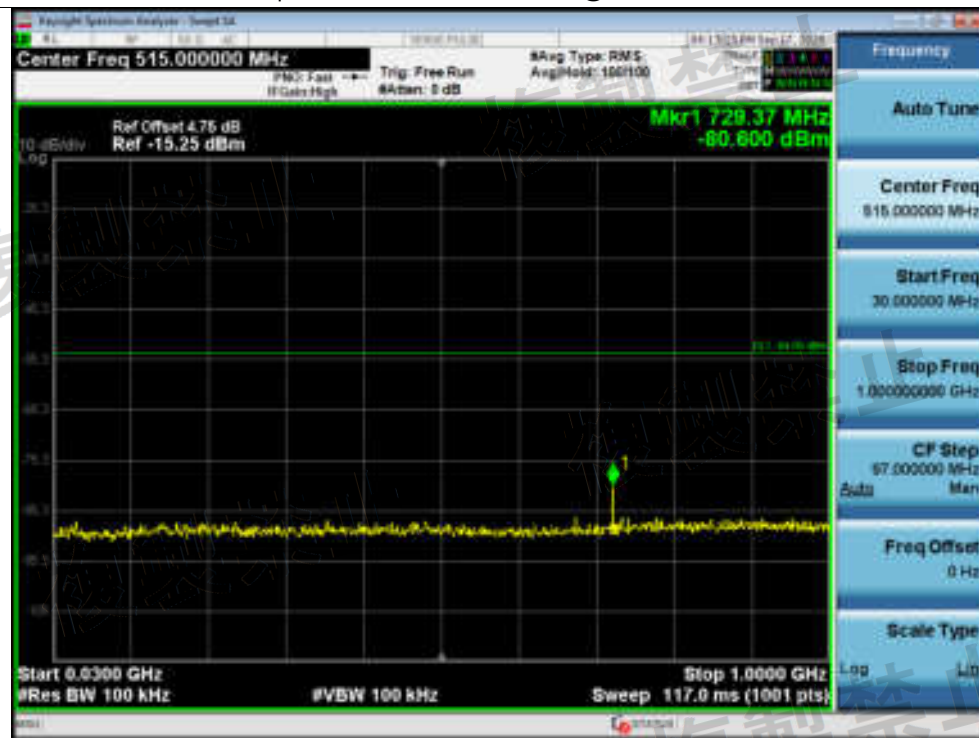
11.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	30-1000	729.37	-80.6	-54	Pass
NVNT	a	5500	1000-26000	24975	-62.31	-47	Pass
NVNT	a	5600	30-1000	705.12	-77	-54	Pass
NVNT	a	5600	1000-26000	25125	-61.87	-47	Pass
NVNT	a	5700	30-1000	704.15	-77.67	-54	Pass
NVNT	a	5700	1000-26000	24975	-62.07	-47	Pass
NVNT	n40	5510	30-1000	913.67	-85.7	-54	Pass
NVNT	n40	5510	1000-26000	24925	-61.69	-47	Pass
NVNT	n40	5590	30-1000	670.2	-86.22	-54	Pass
NVNT	n40	5590	1000-26000	24750	-61.62	-47	Pass
NVNT	n40	5670	30-1000	730.34	-79.69	-54	Pass
NVNT	n40	5670	1000-26000	24775	-62.91	-47	Pass
NVNT	ax80	5610	30-1000	871.09	-88.65	-54	Pass
NVNT	ax80	5610	1000-26000	24645.00	-63.17	-47	Pass

Test Graphs

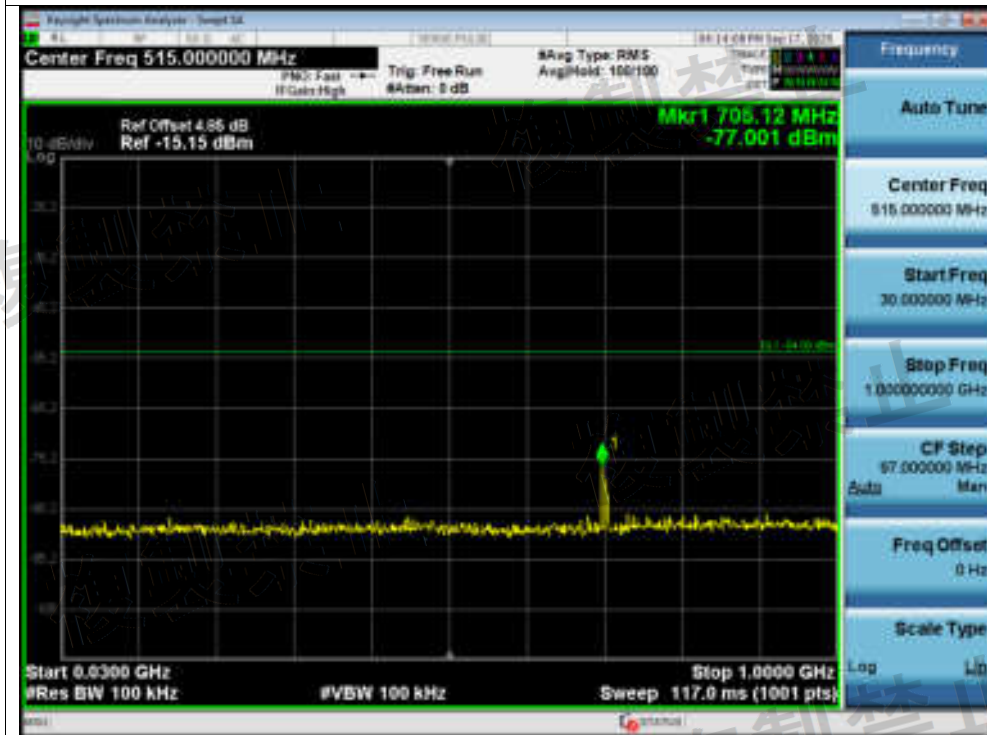
Rx. Spurious NVNT a 5500MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT a 5500MHz Ant1 @ 1000MHz-26000MHz



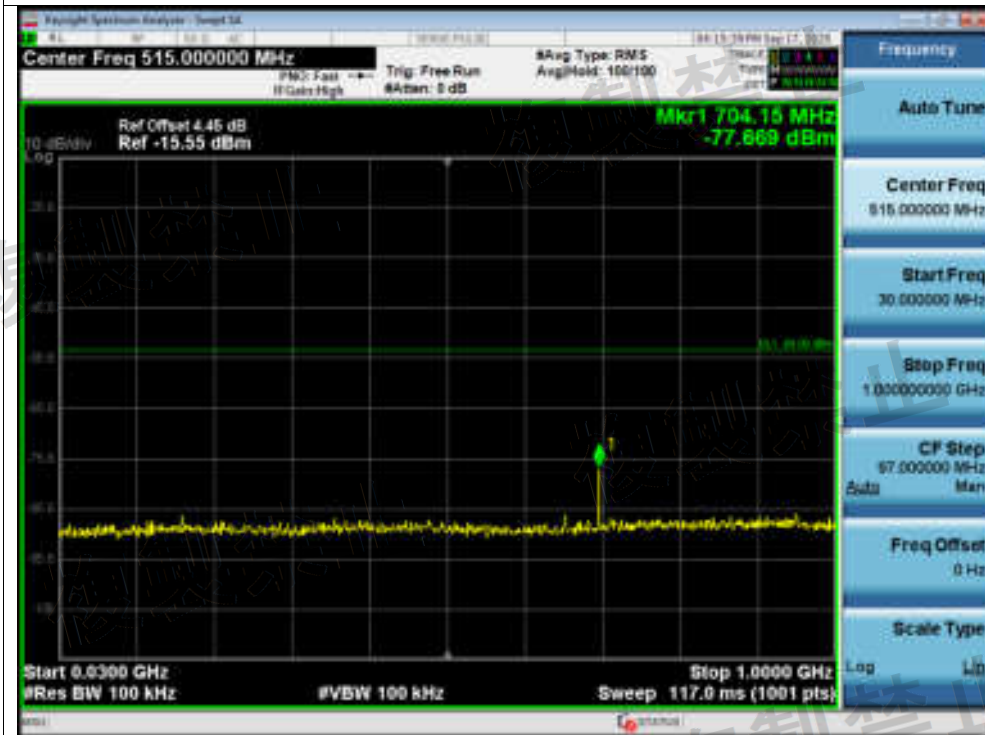
Rx. Spurious NVNT a 5600MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT a 5600MHz Ant1 @ 1000MHz-26000MHz



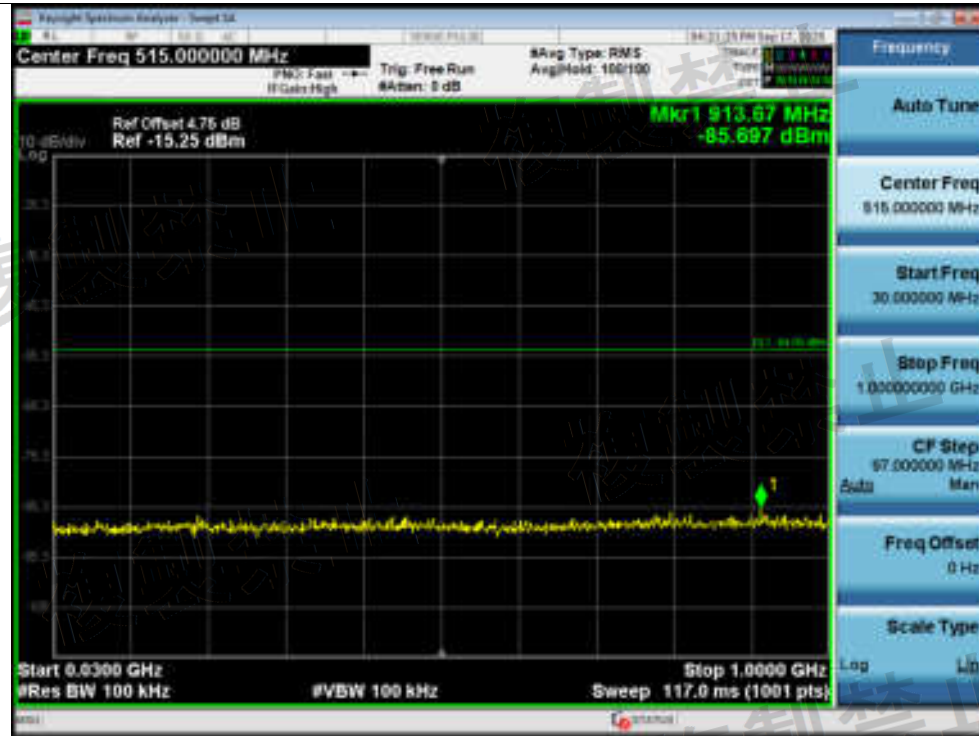
Rx. Spurious NVNT a 5700MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT a 5700MHz Ant1 @ 1000MHz-26000MHz



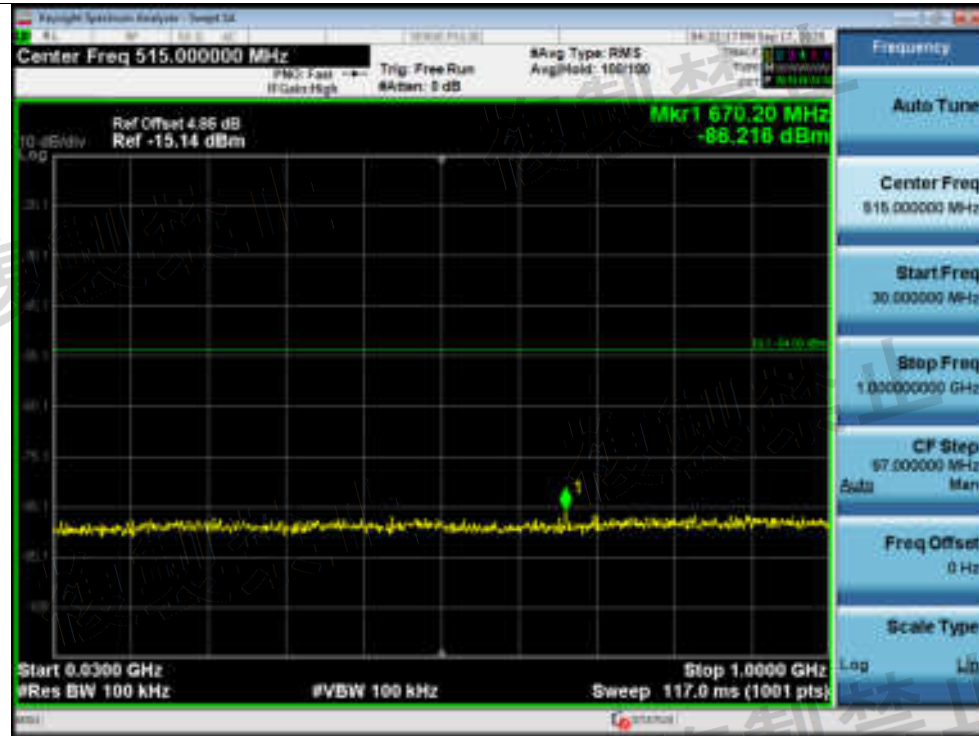
Rx. Spurious NVNT n40 5510MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT n40 5510MHz Ant1 @ 1000MHz-26000MHz



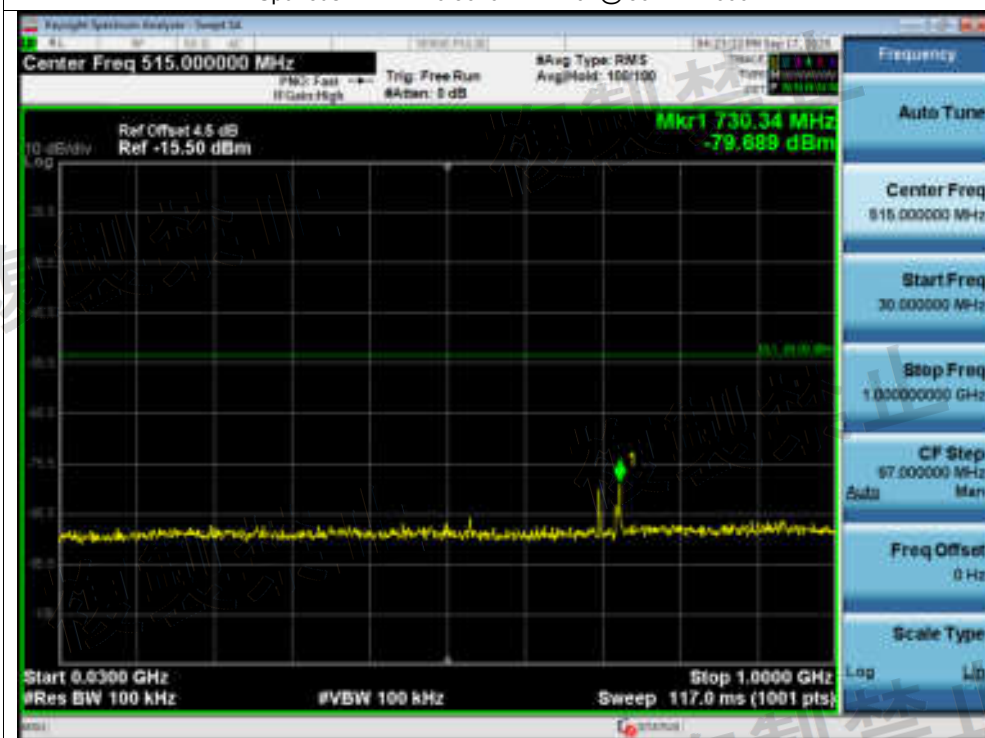
Rx. Spurious NVNT n40 5590MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT n40 5590MHz Ant1 @ 1000MHz-26000MHz



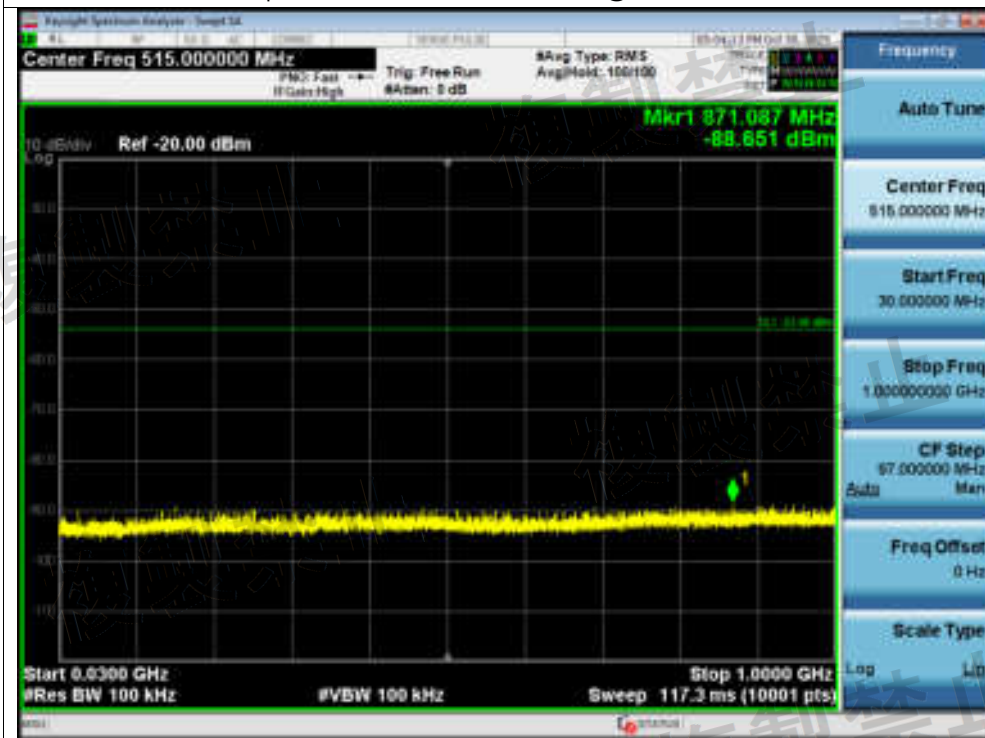
Rx. Spurious NVNT n40 5670MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT n40 5670MHz Ant1 @ 1000MHz-26000MHz



Rx. Spurious NVNT ax80 5610MHz Ant1 @ 30MHz-1000MHz

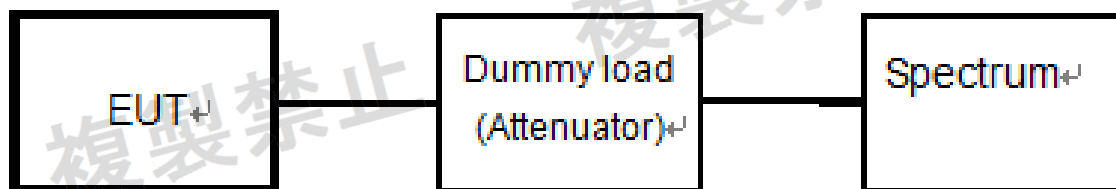


Rx. Spurious NVNT ax80 5610MHz Ant1 @ 1000MHz-26000MHz



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.

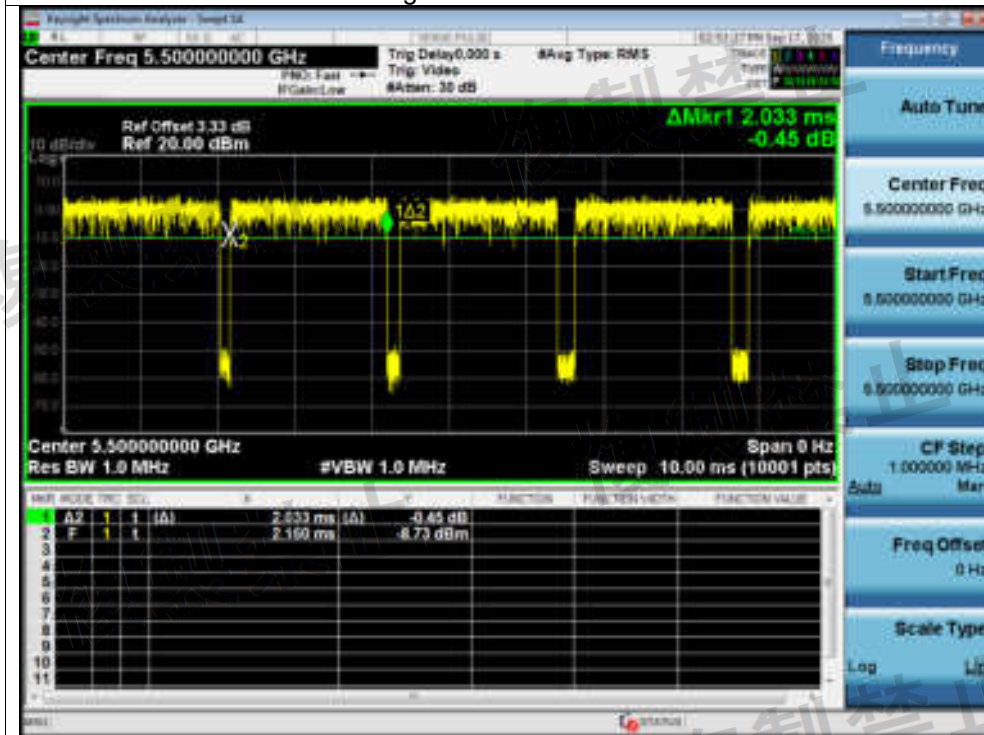
Spectrum Parameter	Setting
Center frequency	Test frequency
Sweep bandwidth	0Hz
Resoluble bandwidth	1MHz
Video bandwidth	equivalent to resolvable bandwidth
Sweep Time	Minimum time to assure measuring accuracy
Y-axis scale	10dB/Div.
Detection mode	Positive peak
Trigger condition	Rising up of level

12.4 Test Result

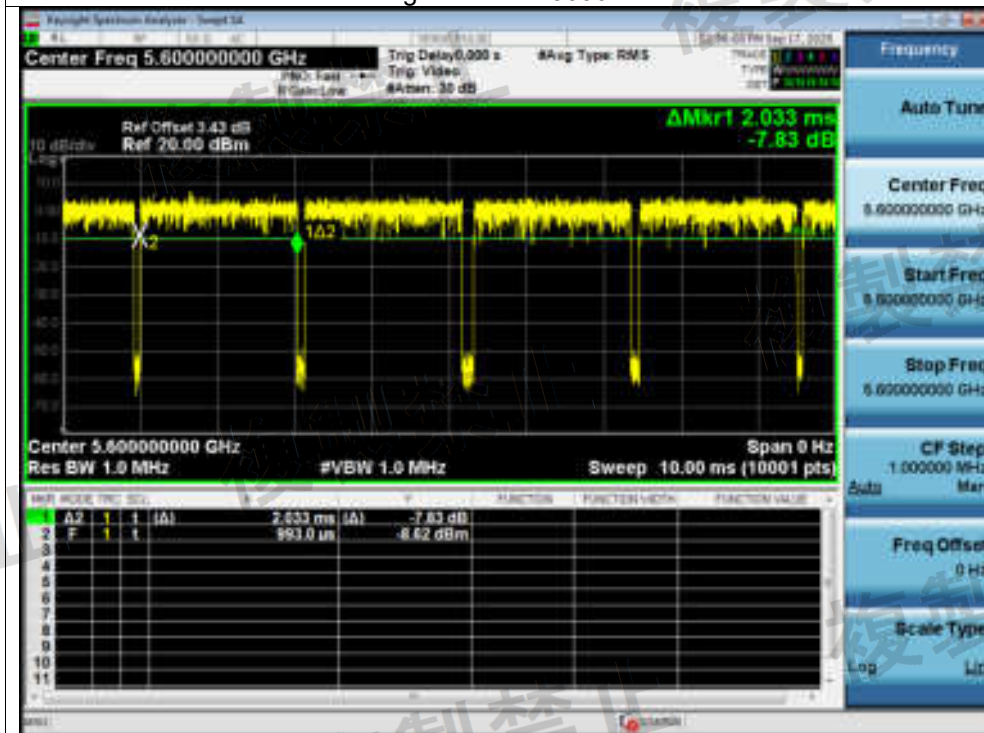
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	5500	2.033	8	Pass
NVNT	a	5600	2.033	8	Pass
NVNT	a	5700	2.034	8	Pass
NVNT	n20	5500	1.894	8	Pass
NVNT	n20	5600	1.894	8	Pass
NVNT	n20	5700	1.894	8	Pass
NVNT	n40	5510	0.933	8	Pass
NVNT	n40	5590	0.933	8	Pass
NVNT	n40	5670	0.933	8	Pass
NVNT	ac20	5500	1.902	8	Pass
NVNT	ac20	5600	1.902	8	Pass
NVNT	ac20	5700	1.902	8	Pass
NVNT	ac40	5510	0.938	8	Pass
NVNT	ac40	5590	0.937	8	Pass
NVNT	ac40	5670	0.937	8	Pass
NVNT	ac80	5530	0.458	8	Pass
NVNT	ac80	5610	0.457	8	Pass
NVNT	ax20	5500	1.462	8	Pass
NVNT	ax20	5600	1.462	8	Pass
NVNT	ax20	5700	1.462	8	Pass
NVNT	ax40	5510	0.763	8	Pass
NVNT	ax40	5590	0.763	8	Pass
NVNT	ax40	5670	0.763	8	Pass
NVNT	ax80	5530	0.396	8	Pass
NVNT	ax80	5610	0.396	8	Pass

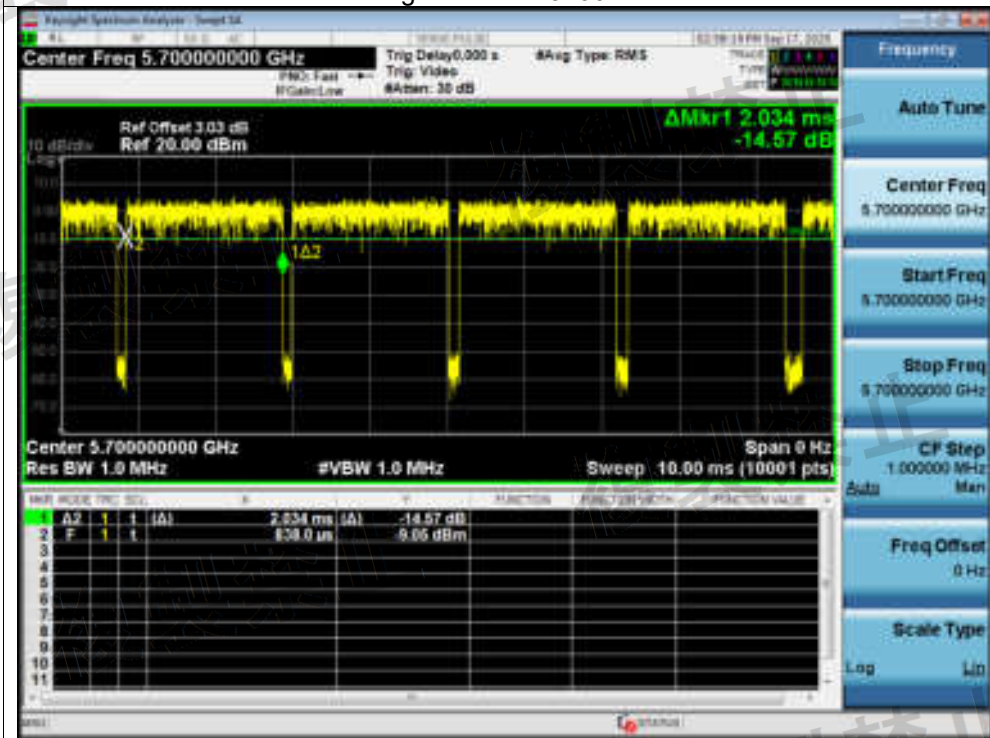
Test Graphs
Burst Length NVNT a 5500MHz Ant1



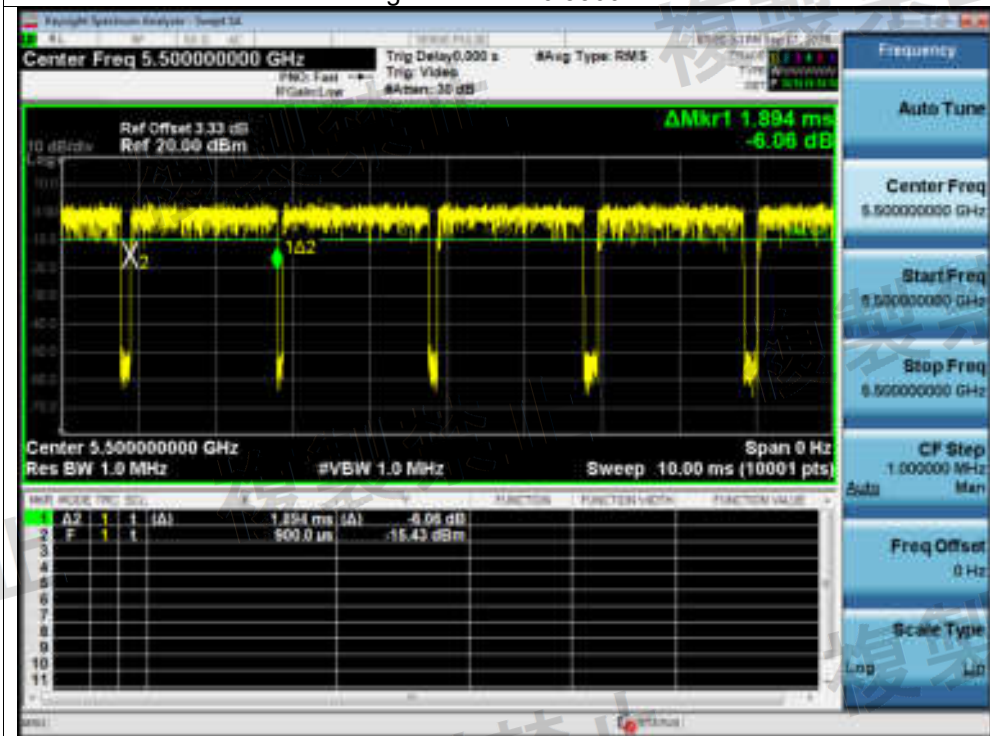
Burst Length NVNT a 5600MHz Ant1



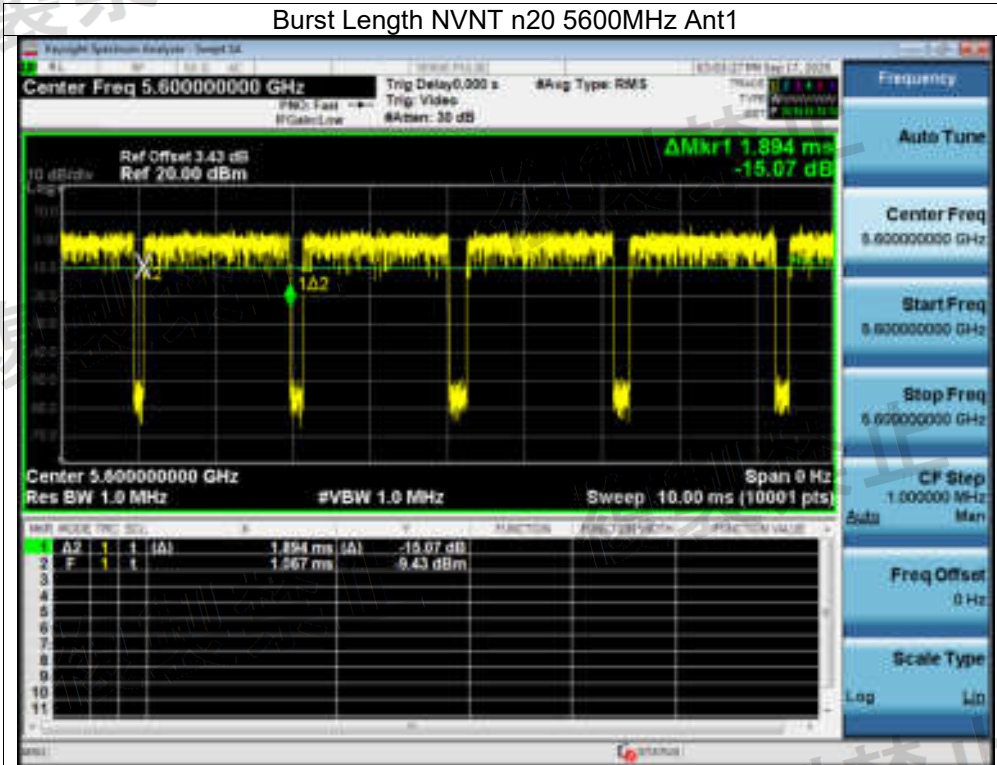
Burst Length NVNT a 5700MHz Ant1



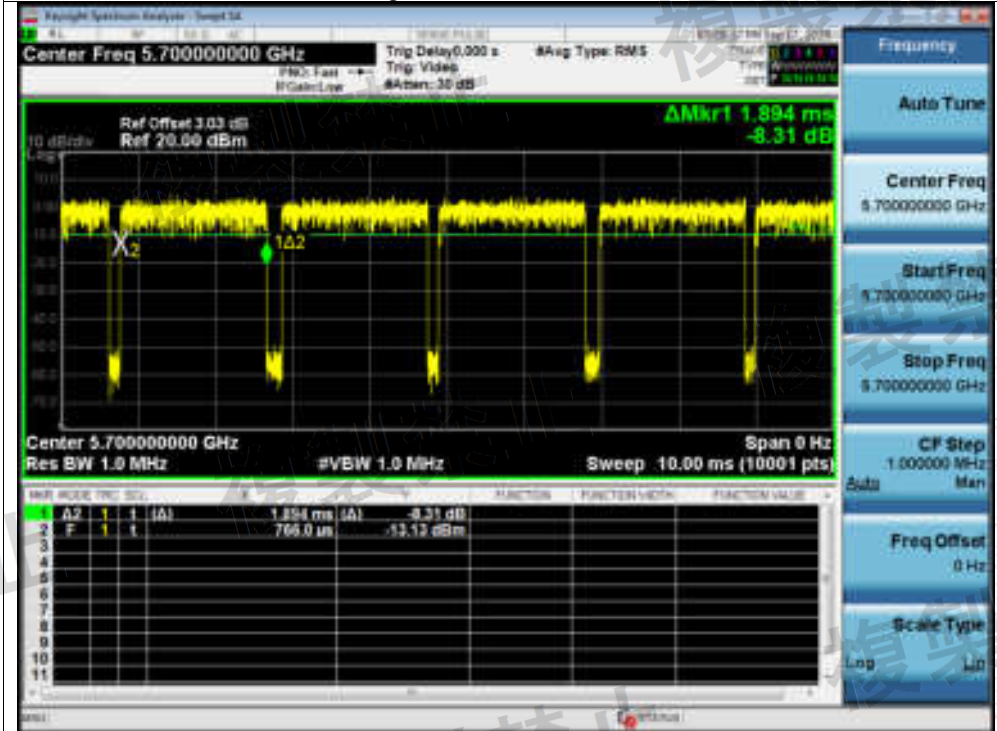
Burst Length NVNT n20 5500MHz Ant1



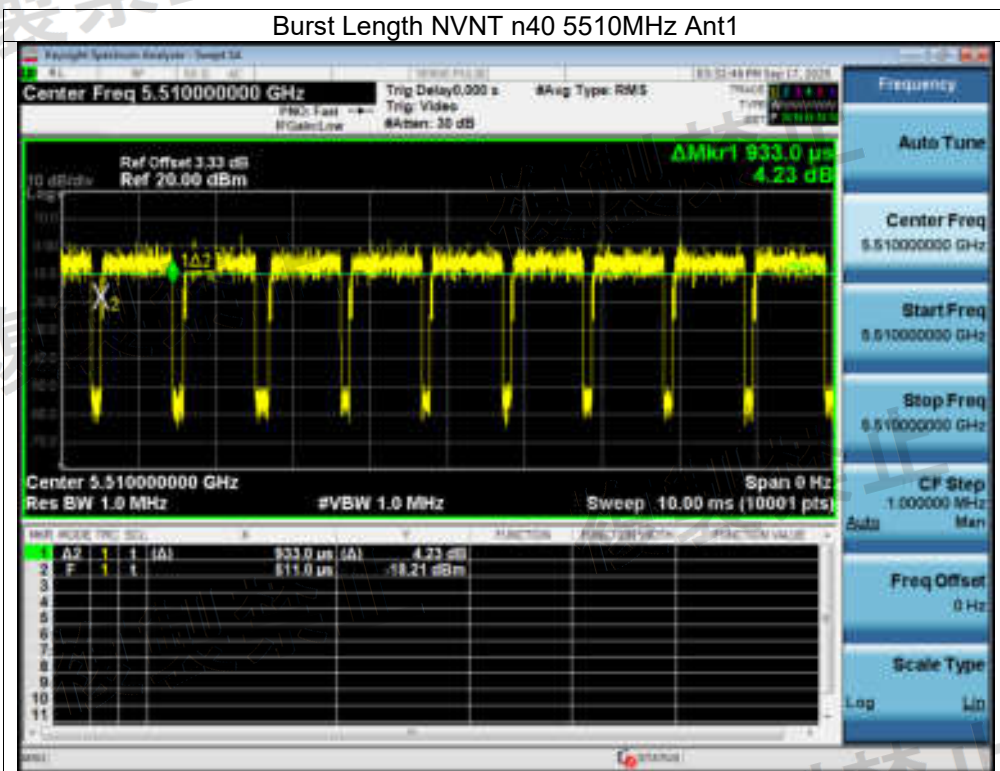
Burst Length NVNT n20 5600MHz Ant1



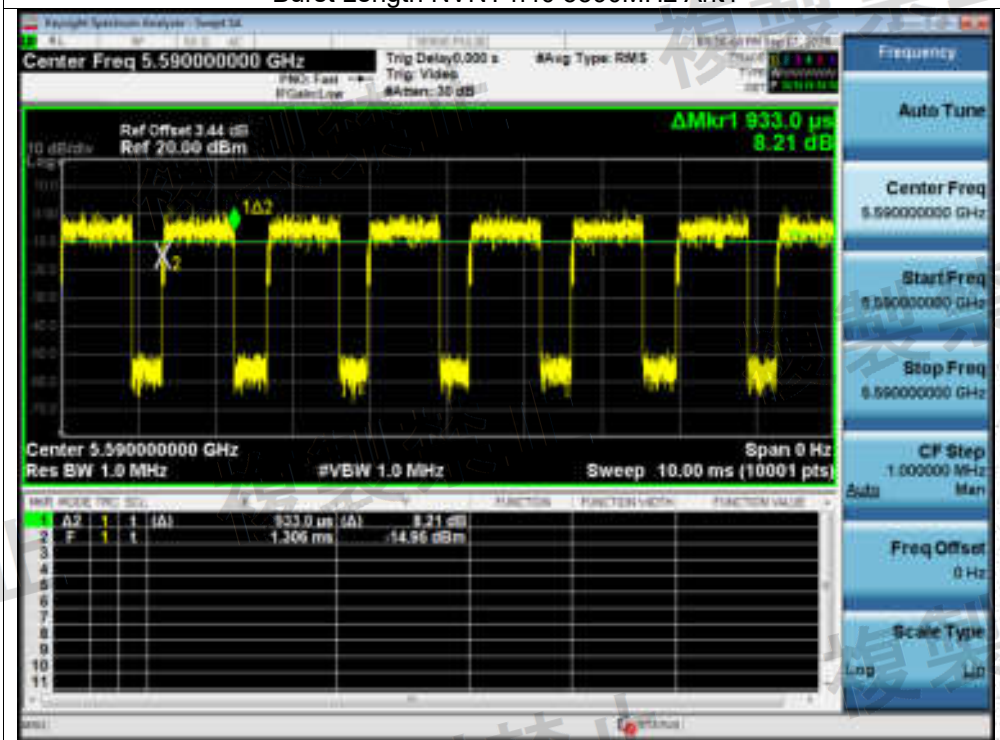
Burst Length NVNT n20 5700MHz Ant1



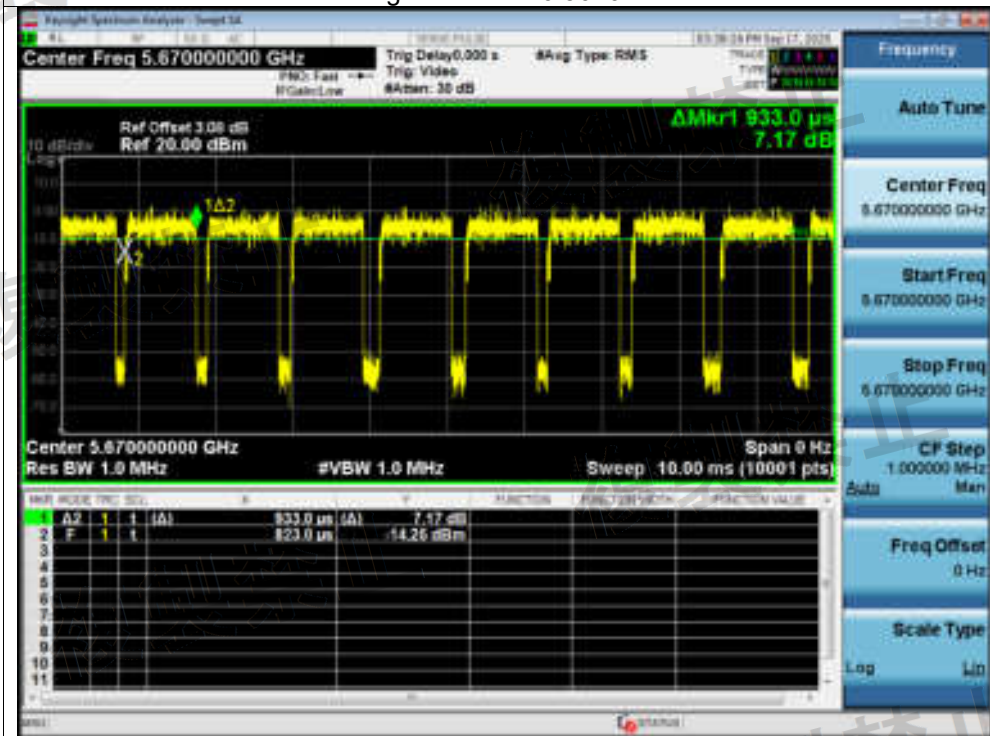
Burst Length NVNT n40 5510MHz Ant1



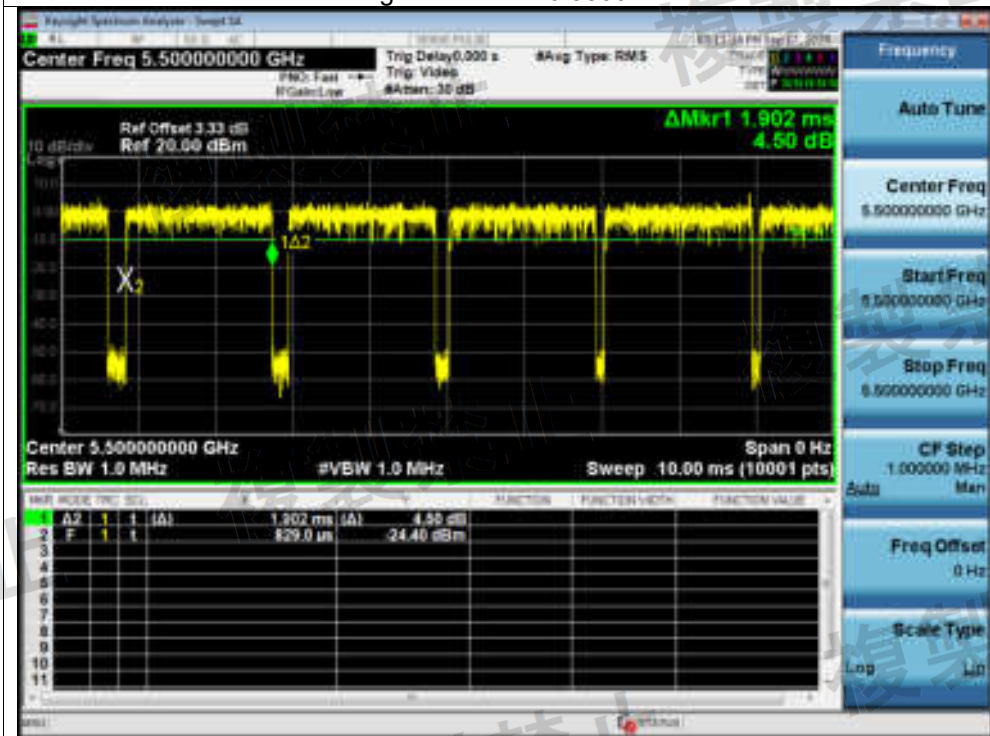
Burst Length NVNT n40 5590MHz Ant1



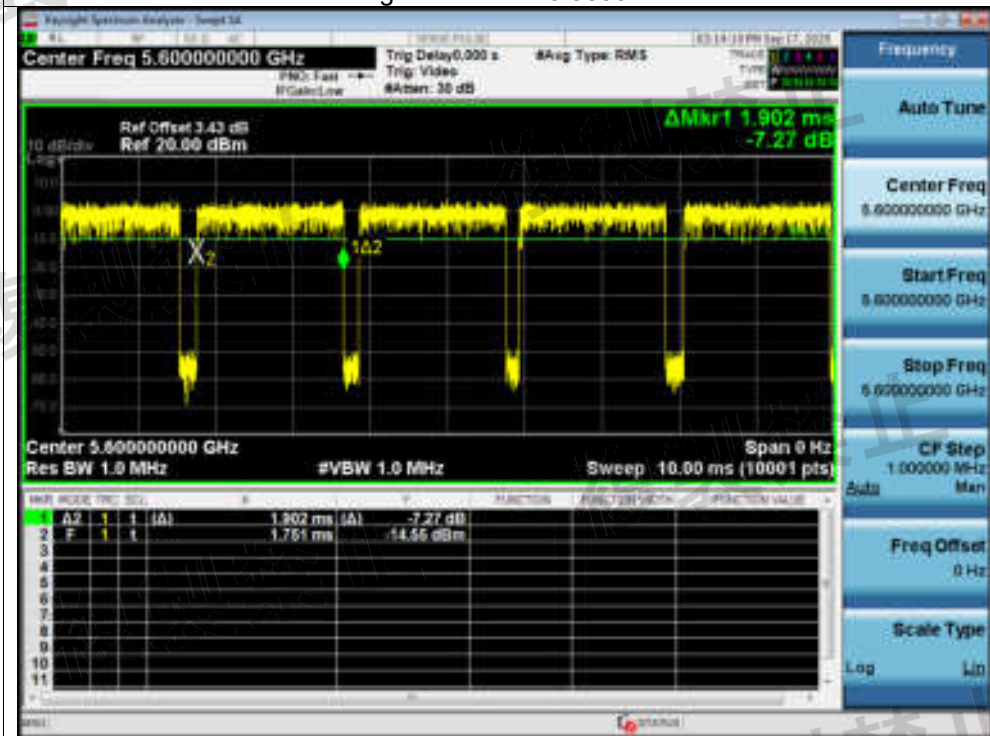
Burst Length NVNT n40 5670MHz Ant1



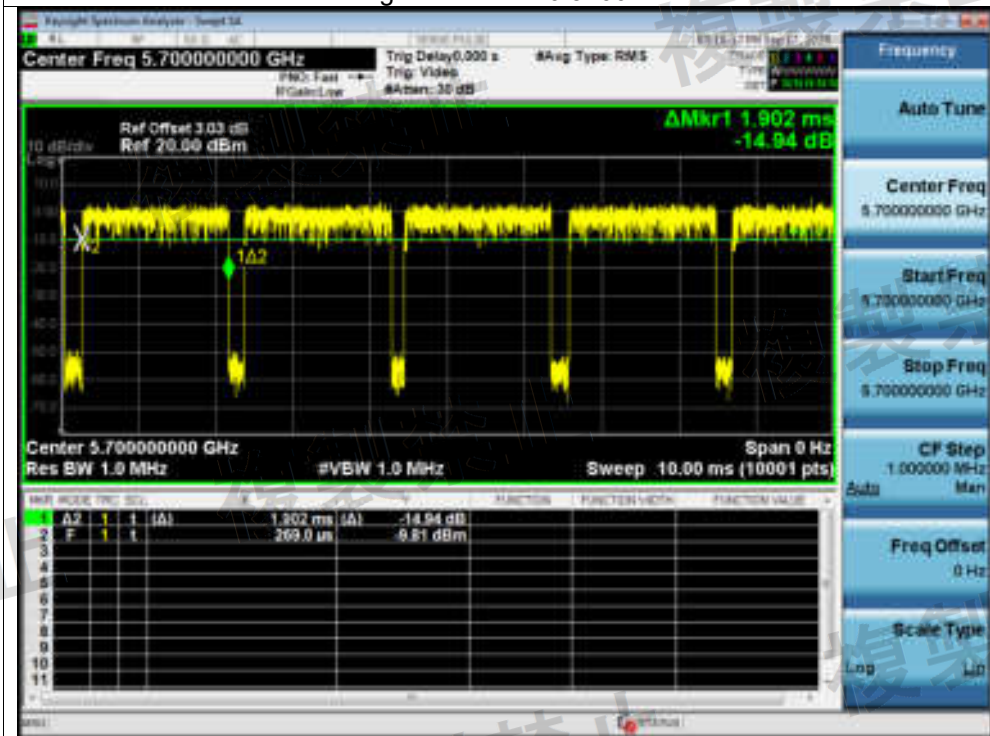
Burst Length NVNT ac20 5500MHz Ant1



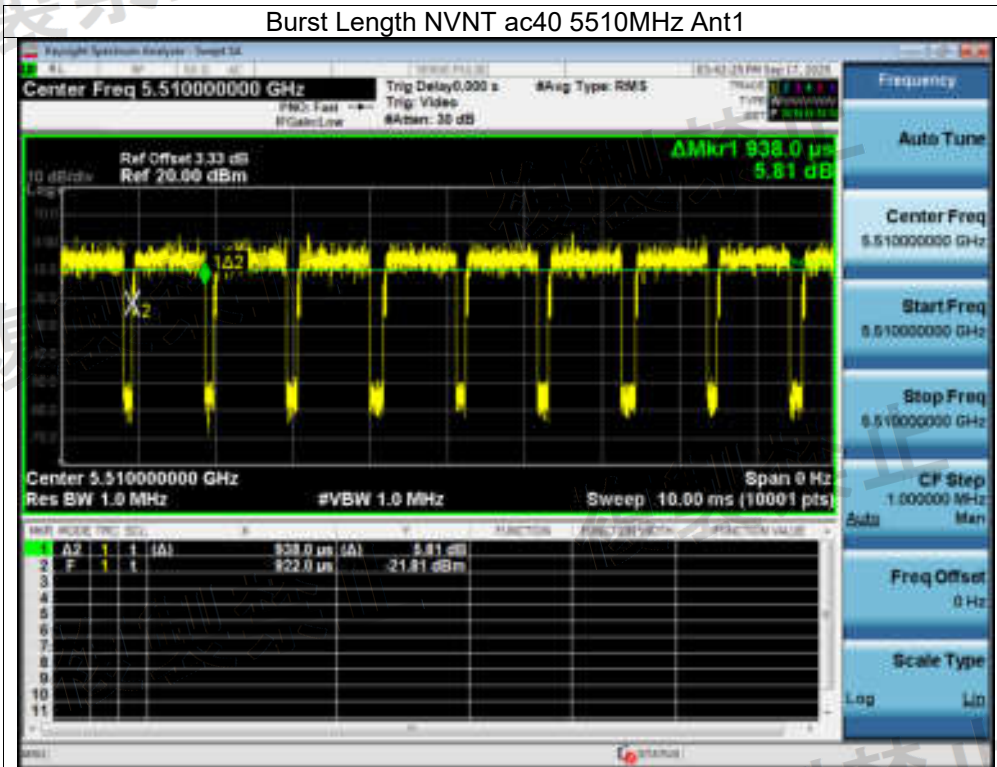
Burst Length NVNT ac20 5600MHz Ant1



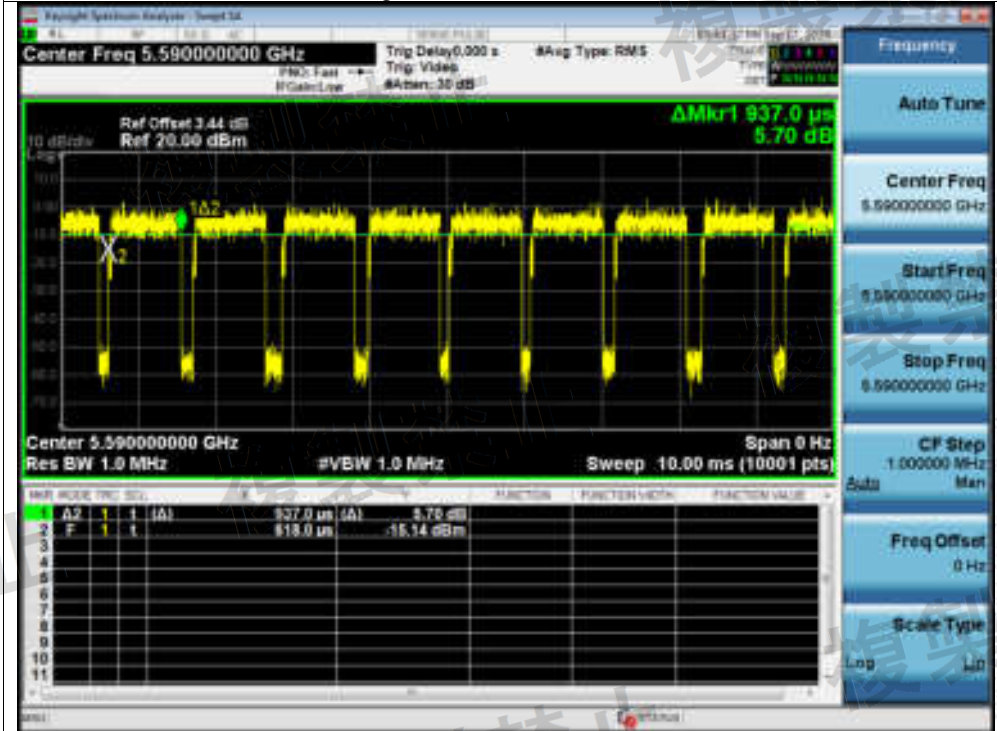
Burst Length NVNT ac20 5700MHz Ant1



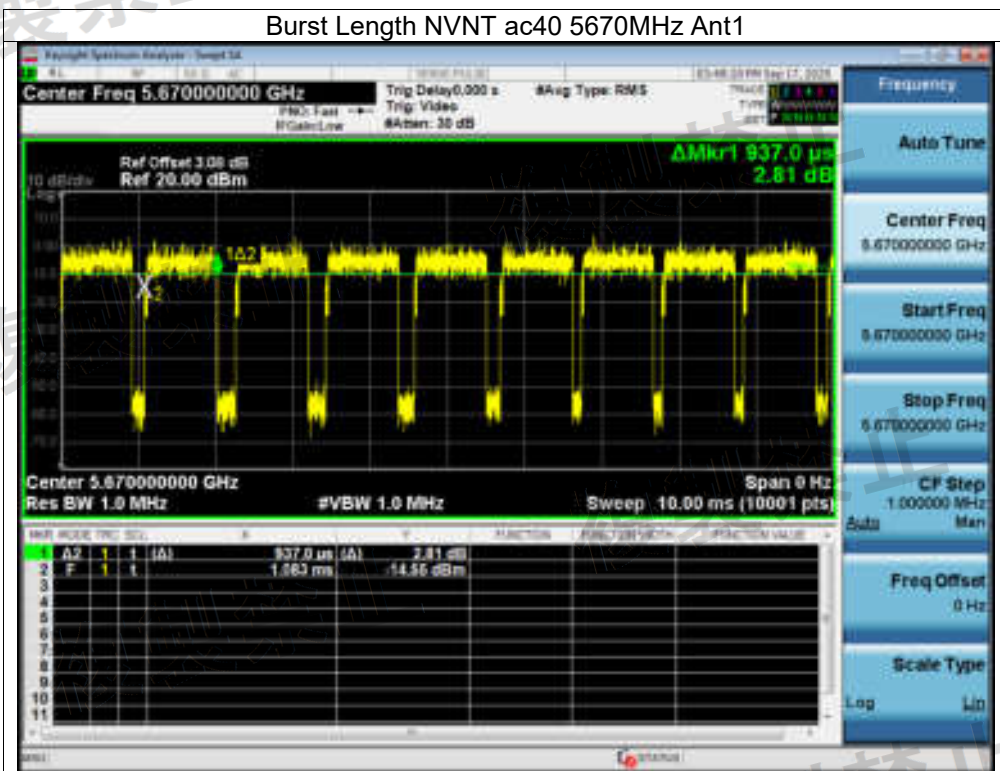
Burst Length NVNT ac40 5510MHz Ant1



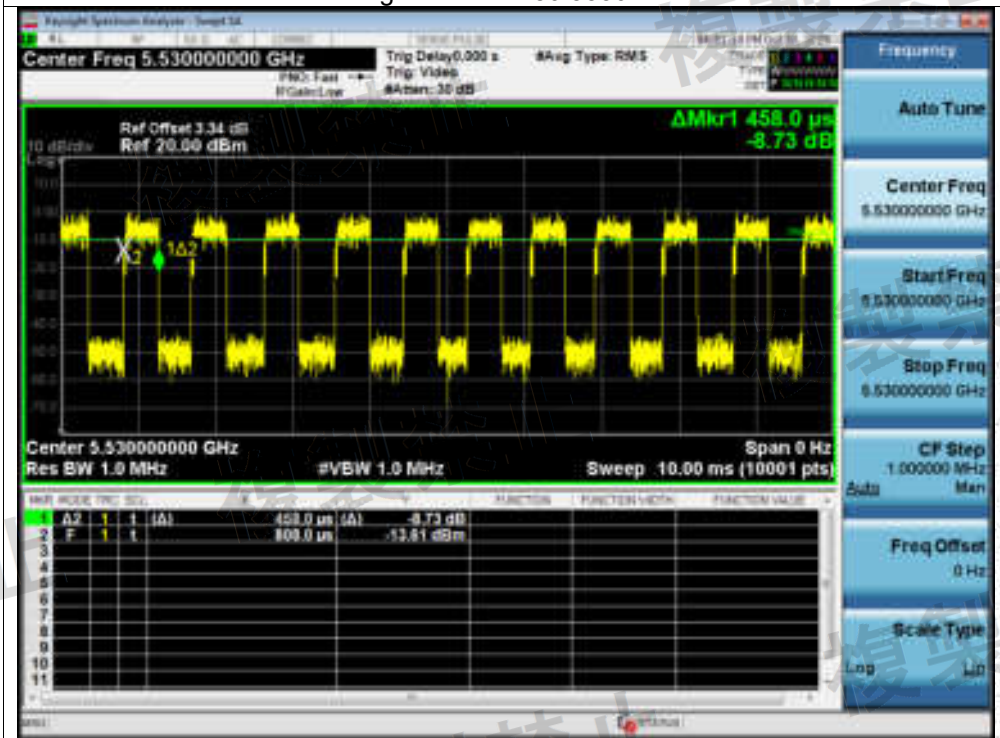
Burst Length NVNT ac40 5590MHz Ant1



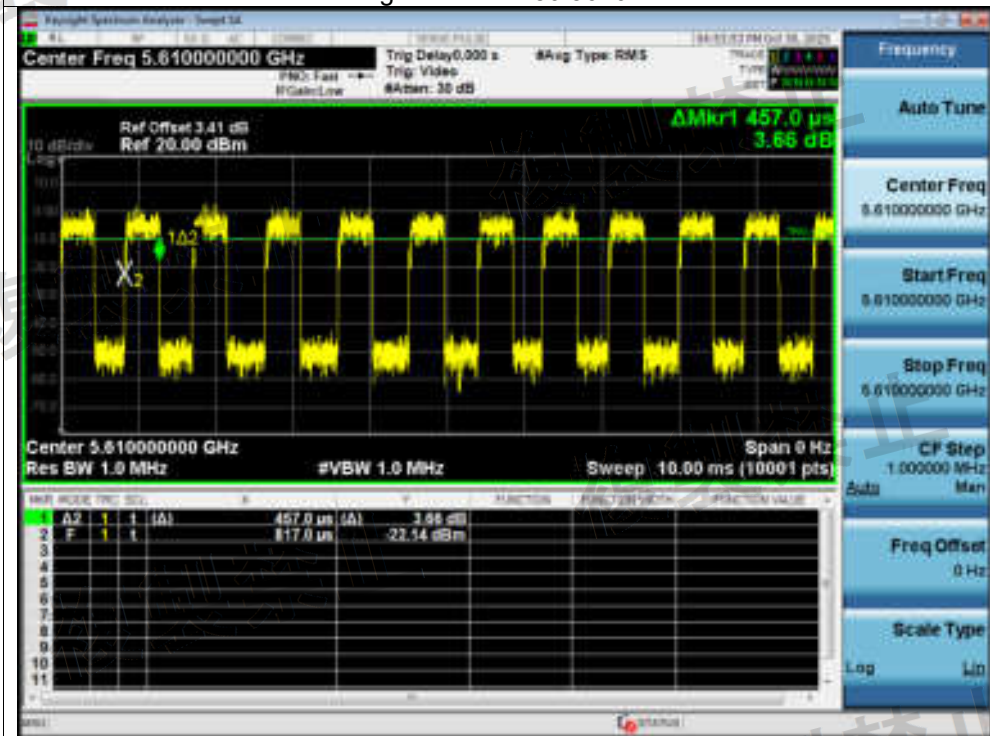
Burst Length NVNT ac40 5670MHz Ant1



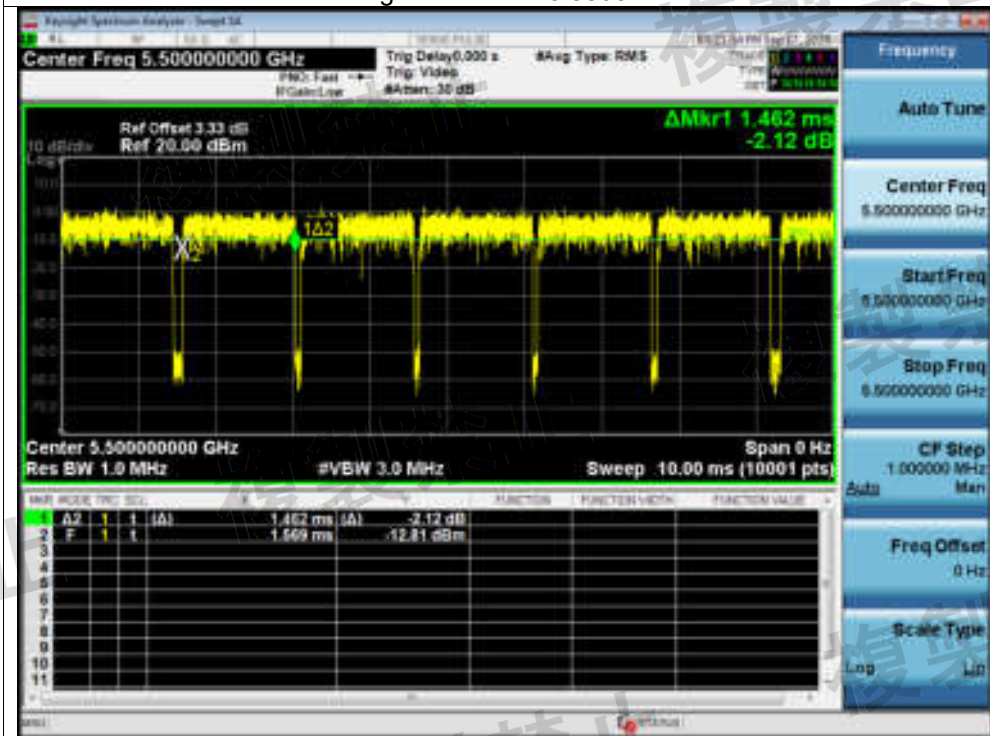
Burst Length NVNT ac80 5530MHz Ant1



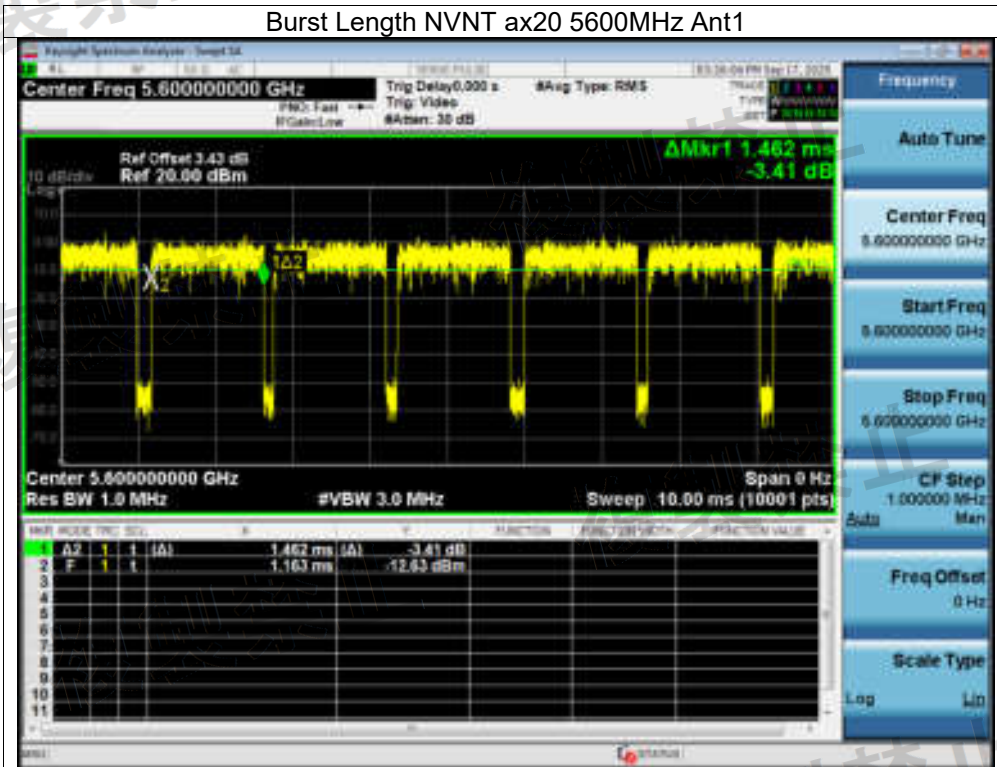
Burst Length NVNT ac80 5610MHz Ant1



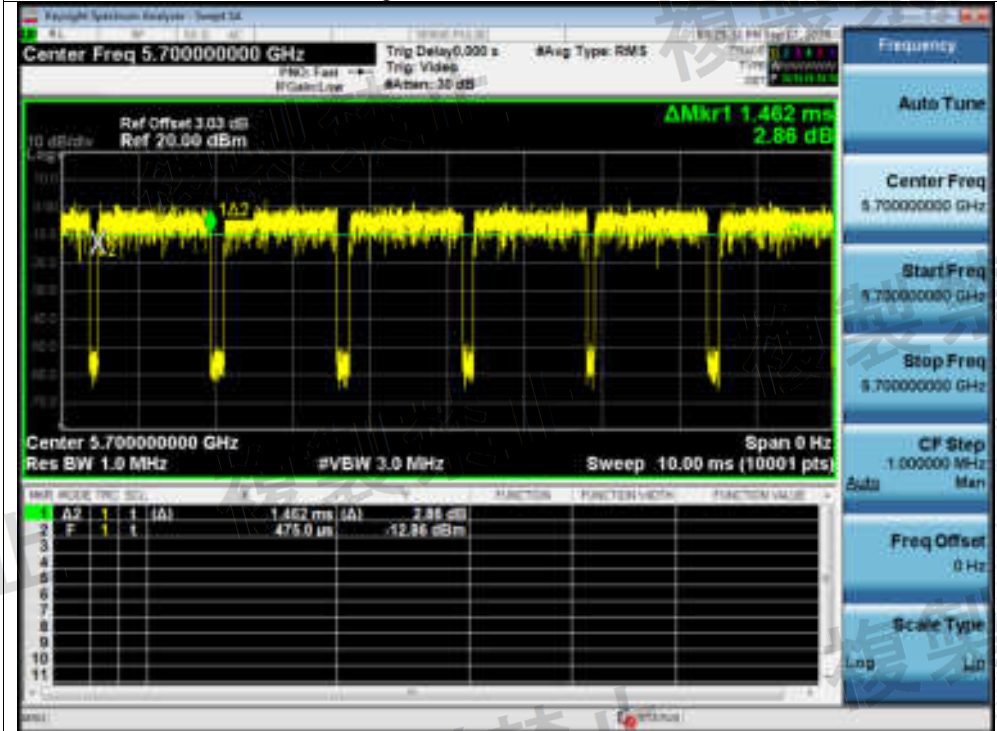
Burst Length NVNT ax20 5500MHz Ant1



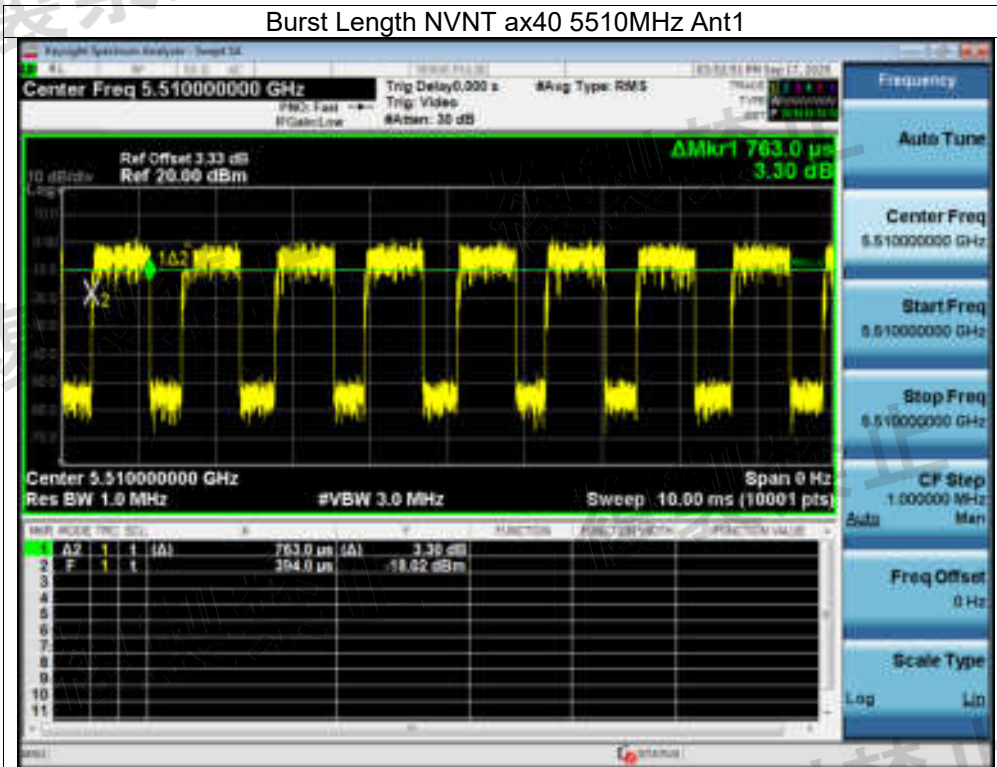
Burst Length NVNT ax20 5600MHz Ant1



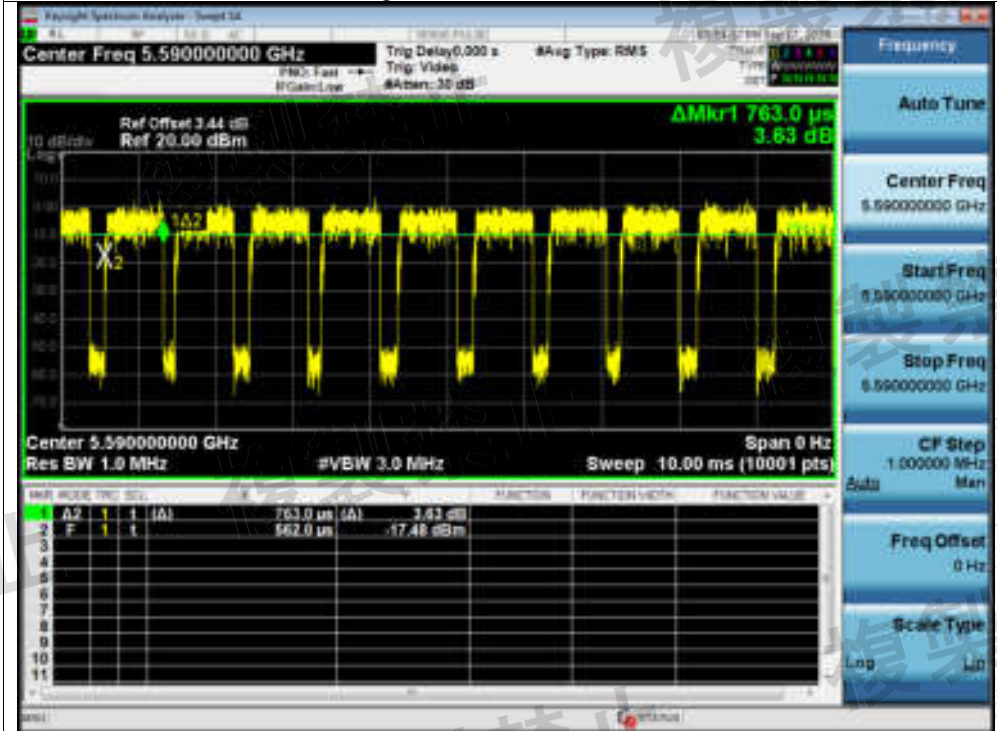
Burst Length NVNT ax20 5700MHz Ant1



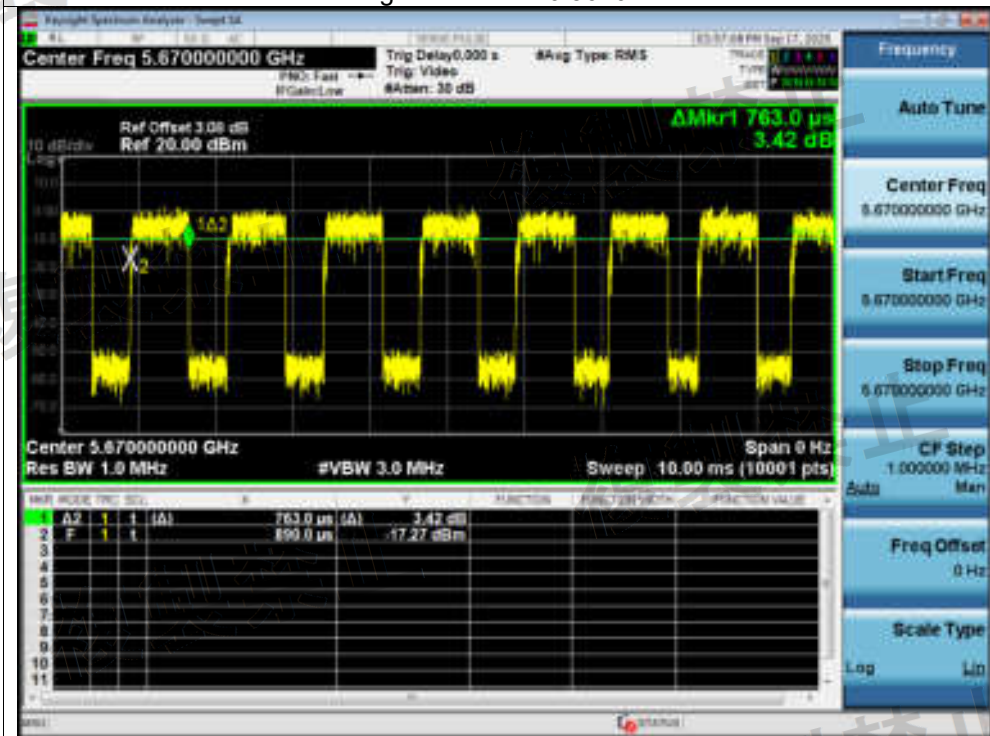
Burst Length NVNT ax40 5510MHz Ant1



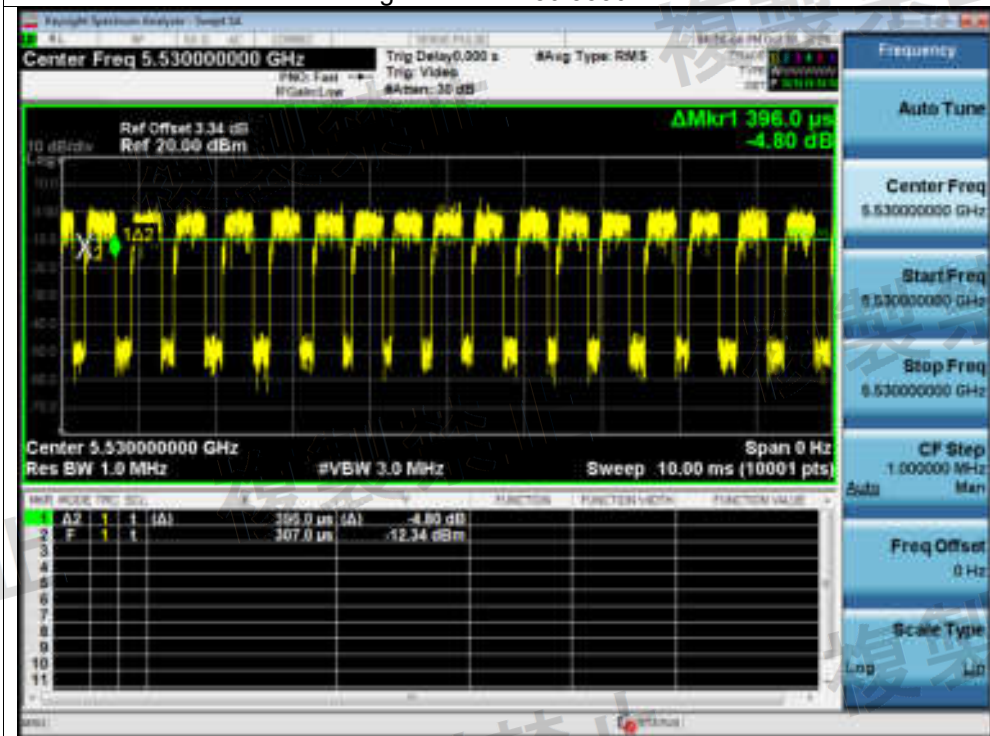
Burst Length NVNT ax40 5590MHz Ant1



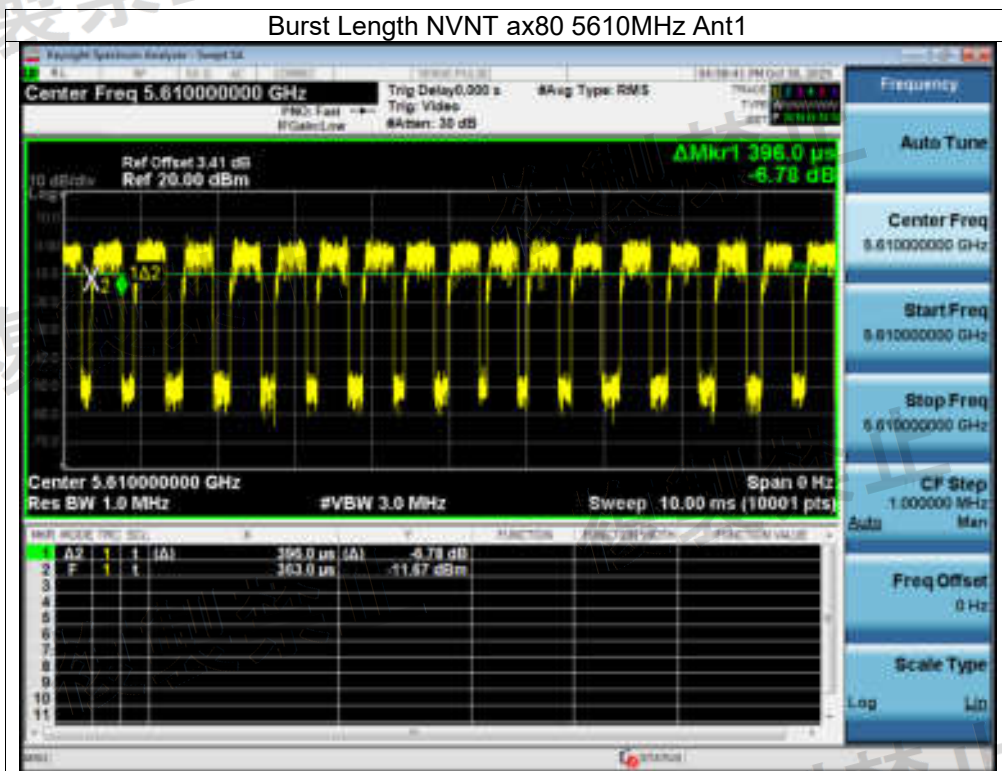
Burst Length NVNT ax40 5670MHz Ant1



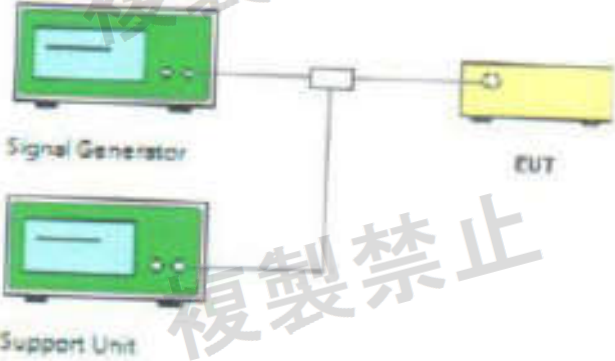
Burst Length NVNT ax80 5530MHz Ant1



Burst Length NVNT ax80 5610MHz Ant1



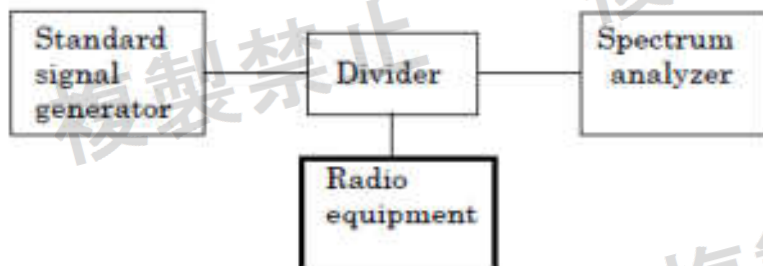
13. Interference Prevention Function Measurement

Test condition:	Test diffusion code and modulate with standard coding test signal
Test setup:	
Test Procedures:	1. The EUT continuous connected with support unit. 2. Signal generator transmitted interference signal to the EUT. 3. Check the EUT must be automatic cessation of transmitting
Test Instruments:	Refer to section 5.2 for details
Test results:	Pass Transmitter: The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good. Receiver: The transmitting mode of EUT is on normal operating, the interference prevention function is good.
Mac address:	54:90:f3:bb:aa:9b

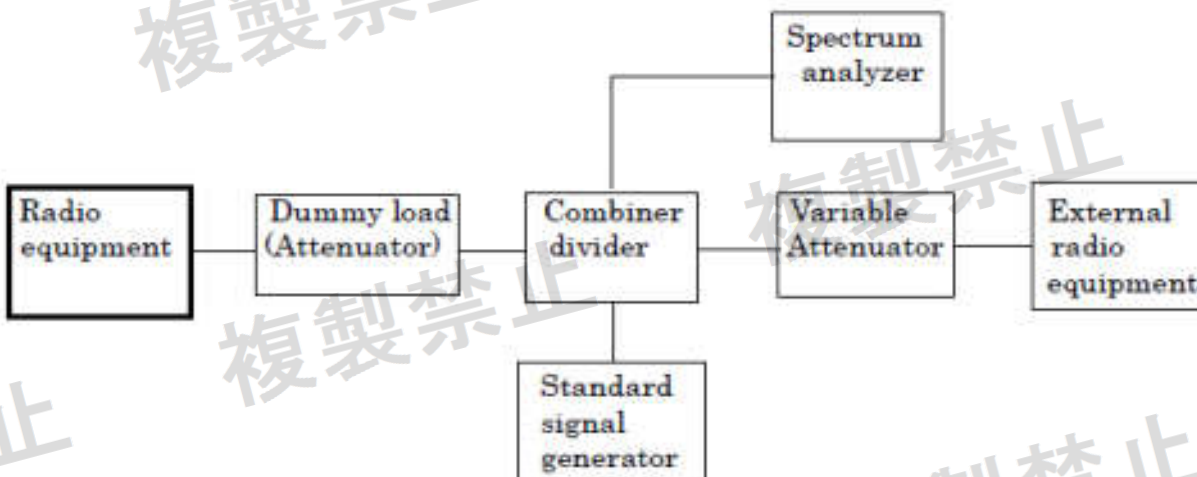
14. Carrier Sense Capability Measurement

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

14.4 Test Result

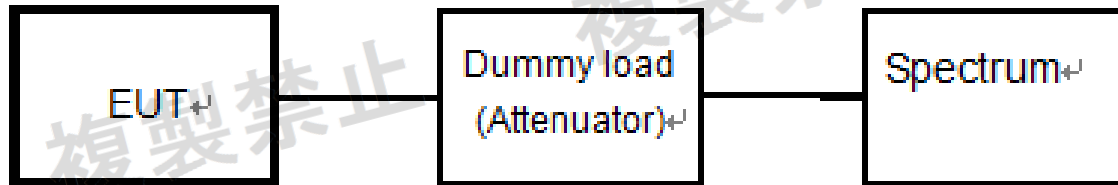
(1) RESULT

Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11a	CH100	Pass	Pass	Pass
	CH120	Pass	Pass	Pass
	CH140	Pass	Pass	Pass
802.11n20	CH100	Pass	Pass	Pass
	CH120	Pass	Pass	Pass
	CH140	Pass	Pass	Pass
802.11n40	CH102	Pass	Pass	Pass
	CH118	Pass	Pass	Pass
	CH134	Pass	Pass	Pass
802.11ac20	CH100	Pass	Pass	Pass
	CH120	Pass	Pass	Pass
	CH140	Pass	Pass	Pass
802.11nac40	CH102	Pass	Pass	Pass
	CH118	Pass	Pass	Pass
	CH134	Pass	Pass	Pass
802.11ac80	CH106	Pass	Pass	Pass
	CH122	Pass	Pass	Pass
802.11ax20	CH100	Pass	Pass	Pass
	CH120	Pass	Pass	Pass
	CH140	Pass	Pass	Pass
802.11nax40	CH102	Pass	Pass	Pass
	CH118	Pass	Pass	Pass
	CH134	Pass	Pass	Pass
802.11ax80	CH106	Pass	Pass	Pass
	CH122	Pass	Pass	Pass

Result:OK

15. Adjacent Channel Emitted Power Measurement

15.1 Block Diagram Of Test Setup



15.2 Limit

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

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);
Resolvable 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)

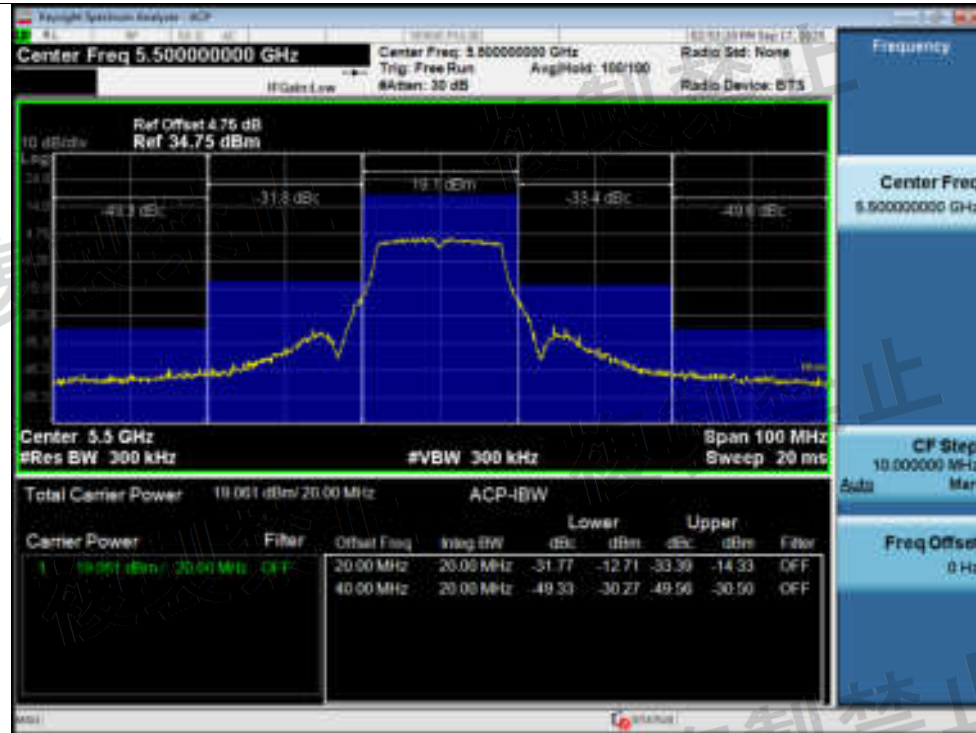
15.4 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

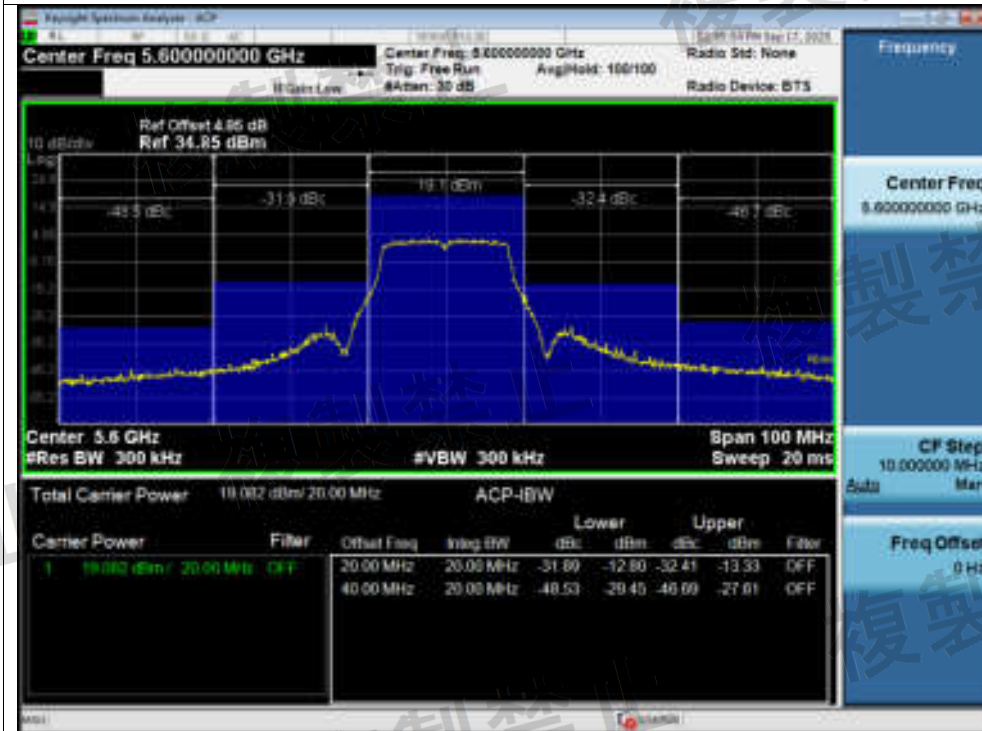
Condition	Mode	Frequency (MHz)	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	-20	-31.77	-25	Pass
NVNT	a	5500	-40	-49.33	-40	Pass
NVNT	a	5500	20	-33.39	-25	Pass
NVNT	a	5500	40	-49.56	-40	Pass
NVNT	a	5600	-20	-31.89	-25	Pass
NVNT	a	5600	-40	-48.53	-40	Pass
NVNT	a	5600	20	-32.41	-25	Pass
NVNT	a	5600	40	-46.69	-40	Pass
NVNT	a	5700	-20	-31.57	-25	Pass
NVNT	a	5700	-40	-46.15	-40	Pass
NVNT	a	5700	20	-32.02	-25	Pass
NVNT	a	5700	40	-45.53	-40	Pass
NVNT	n20	5500	-20	-30.4	-25	Pass
NVNT	n20	5500	-40	-48.17	-40	Pass
NVNT	n20	5500	20	-31.78	-25	Pass
NVNT	n20	5500	40	-48.38	-40	Pass
NVNT	n20	5600	-20	-30.56	-25	Pass
NVNT	n20	5600	-40	-47.78	-40	Pass
NVNT	n20	5600	20	-30.99	-25	Pass
NVNT	n20	5600	40	-46.22	-40	Pass
NVNT	n20	5700	-20	-30.25	-25	Pass
NVNT	n20	5700	-40	-45.99	-40	Pass
NVNT	n20	5700	20	-30.9	-25	Pass
NVNT	n20	5700	40	-45.34	-40	Pass
NVNT	n40	5510	-40	-35.53	-25	Pass
NVNT	n40	5510	-80	-49.86	-40	Pass
NVNT	n40	5510	40	-36.15	-25	Pass
NVNT	n40	5510	80	-50.07	-40	Pass
NVNT	n40	5590	-40	-35.05	-25	Pass
NVNT	n40	5590	-80	-49.36	-40	Pass
NVNT	n40	5590	40	-35.3	-25	Pass
NVNT	n40	5590	80	-49.3	-40	Pass
NVNT	n40	5670	-40	-35.49	-25	Pass
NVNT	n40	5670	-80	-50.46	-40	Pass
NVNT	n40	5670	40	-36.36	-25	Pass
NVNT	n40	5670	80	-49.96	-40	Pass
NVNT	ac20	5500	-20	-30.62	-25	Pass
NVNT	ac20	5500	-40	-48.32	-40	Pass
NVNT	ac20	5500	20	-32.07	-25	Pass
NVNT	ac20	5500	40	-48.43	-40	Pass
NVNT	ac20	5600	-20	-30.58	-25	Pass
NVNT	ac20	5600	-40	-47.85	-40	Pass
NVNT	ac20	5600	20	-31.1	-25	Pass
NVNT	ac20	5600	40	-46.3	-40	Pass
NVNT	ac20	5700	-20	-30.14	-25	Pass
NVNT	ac20	5700	-40	-46.16	-40	Pass
NVNT	ac20	5700	20	-30.91	-25	Pass
NVNT	ac20	5700	40	-45.52	-40	Pass

NVNT	ac40	5510	-40	-35.18	-25	Pass
NVNT	ac40	5510	-80	-49.5	-40	Pass
NVNT	ac40	5510	40	-35.6	-25	Pass
NVNT	ac40	5510	80	-49.64	-40	Pass
NVNT	ac40	5590	-40	-35.34	-25	Pass
NVNT	ac40	5590	-80	-49.31	-40	Pass
NVNT	ac40	5590	40	-35.11	-25	Pass
NVNT	ac40	5590	80	-49.77	-40	Pass
NVNT	ac40	5670	-40	-35.4	-25	Pass
NVNT	ac40	5670	-80	-50.29	-40	Pass
NVNT	ac40	5670	40	-35.7	-25	Pass
NVNT	ac40	5670	80	-49.59	-40	Pass
NVNT	ac80	5530	-80	-33.45	-25	Pass
NVNT	ac80	5530	-160	-46.3	-40	Pass
NVNT	ac80	5530	80	-30.87	-25	Pass
NVNT	ac80	5530	160	-46.33	-40	Pass
NVNT	ac80	5610	-80	-32.64	-25	Pass
NVNT	ac80	5610	-160	-46.39	-40	Pass
NVNT	ac80	5610	80	-31.03	-25	Pass
NVNT	ac80	5610	160	-46.38	-40	Pass
NVNT	ax20	5500	-20	-28.57	-25	Pass
NVNT	ax20	5500	-40	-47.37	-40	Pass
NVNT	ax20	5500	20	-29.8	-25	Pass
NVNT	ax20	5500	40	-47.6	-40	Pass
NVNT	ax20	5600	-20	-29.24	-25	Pass
NVNT	ax20	5600	-40	-48.26	-40	Pass
NVNT	ax20	5600	20	-28.96	-25	Pass
NVNT	ax20	5600	40	-47.79	-40	Pass
NVNT	ax20	5700	-20	-28.66	-25	Pass
NVNT	ax20	5700	-40	-48.58	-40	Pass
NVNT	ax20	5700	20	-29.21	-25	Pass
NVNT	ax20	5700	40	-48	-40	Pass
NVNT	ax40	5510	-40	-34.67	-25	Pass
NVNT	ax40	5510	-80	-48.58	-40	Pass
NVNT	ax40	5510	40	-35.54	-25	Pass
NVNT	ax40	5510	80	-48.68	-40	Pass
NVNT	ax40	5590	-40	-34.89	-25	Pass
NVNT	ax40	5590	-80	-49.05	-40	Pass
NVNT	ax40	5590	40	-34.67	-25	Pass
NVNT	ax40	5590	80	-49.5	-40	Pass
NVNT	ax40	5670	-40	-35.41	-25	Pass
NVNT	ax40	5670	-80	-49.96	-40	Pass
NVNT	ax40	5670	40	-35.92	-25	Pass
NVNT	ax40	5670	80	-49.41	-40	Pass
NVNT	ax80	5530	-80	-33.91	-25	Pass
NVNT	ax80	5530	-160	-46.79	-40	Pass
NVNT	ax80	5530	80	-31.81	-25	Pass
NVNT	ax80	5530	160	-46.77	-40	Pass
NVNT	ax80	5610	-80	-34.31	-25	Pass
NVNT	ax80	5610	-160	-47.17	-40	Pass
NVNT	ax80	5610	80	-31.97	-25	Pass
NVNT	ax80	5610	160	-47.5	-40	Pass

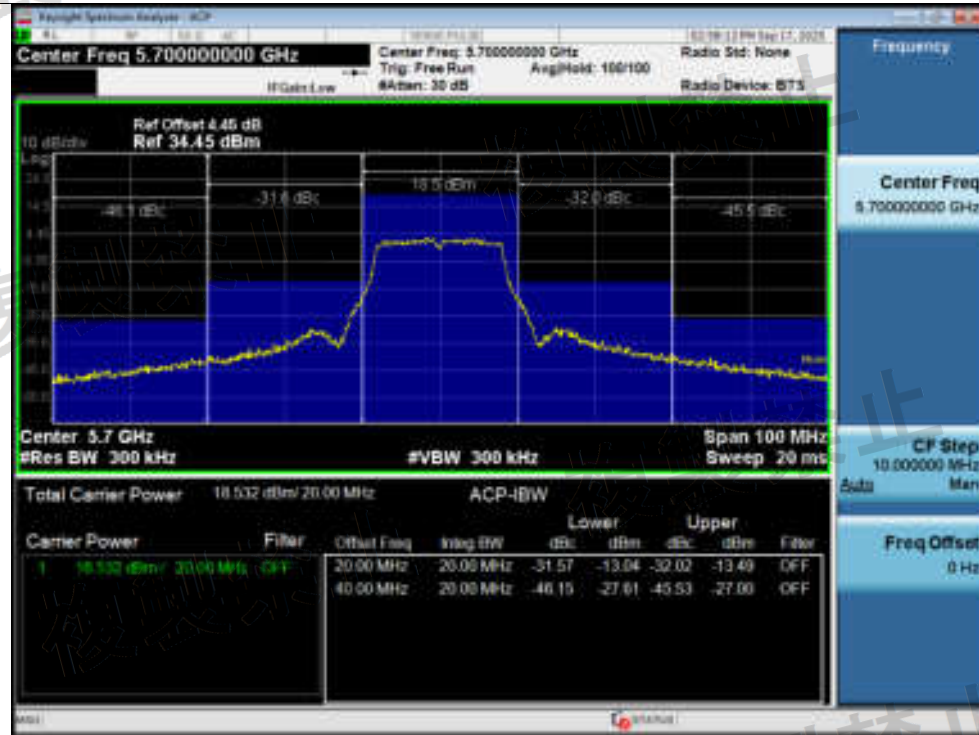
Test Graphs
ACEP NVNT a 5500MHz Ant1



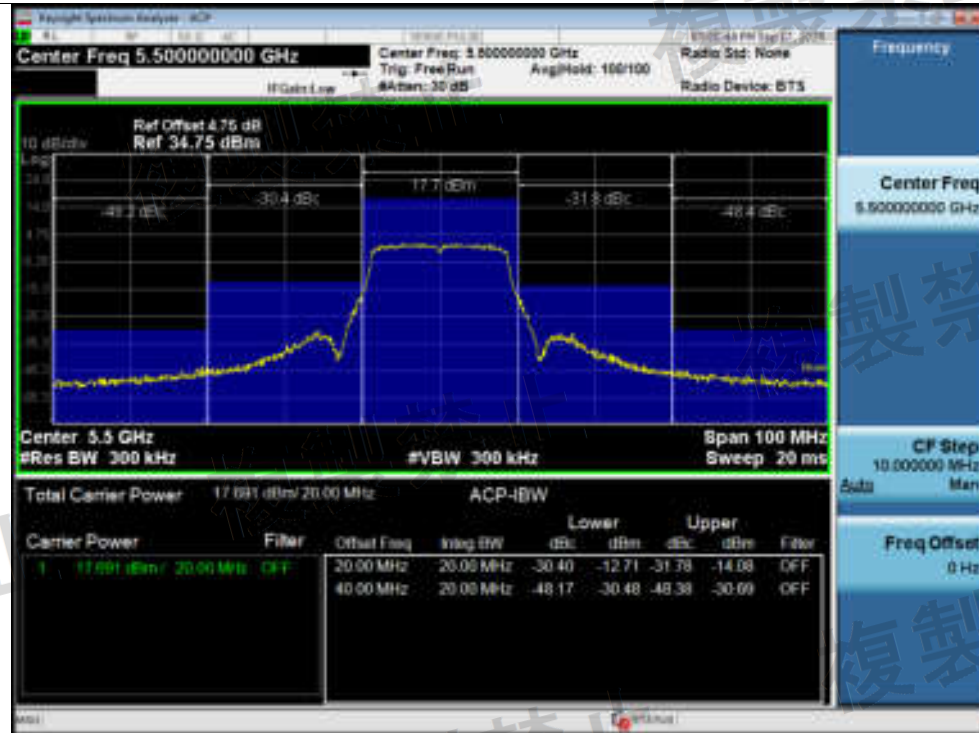
ACEP NVNT a 5600MHz Ant1



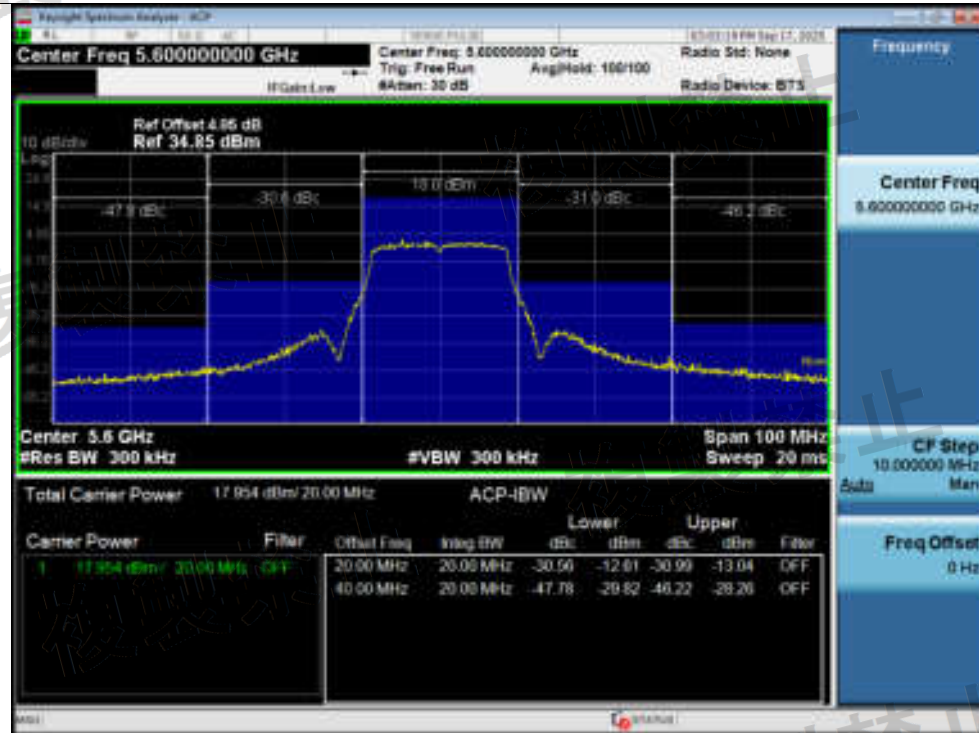
ACEP NVNT a 5700MHz Ant1



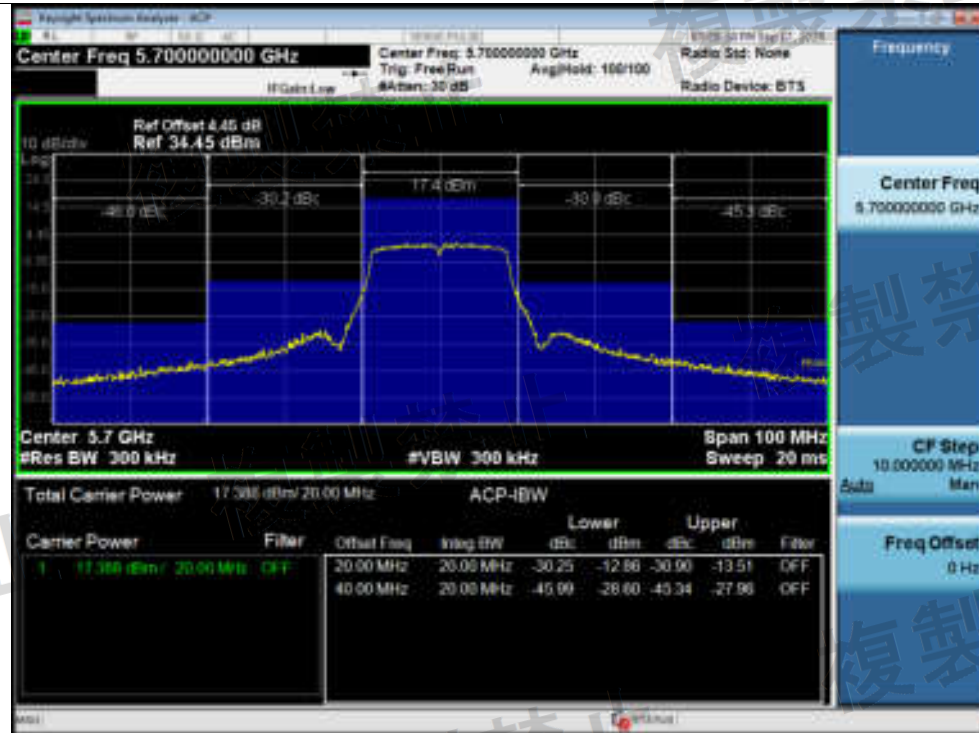
ACEP NVNT n20 5500MHz Ant1



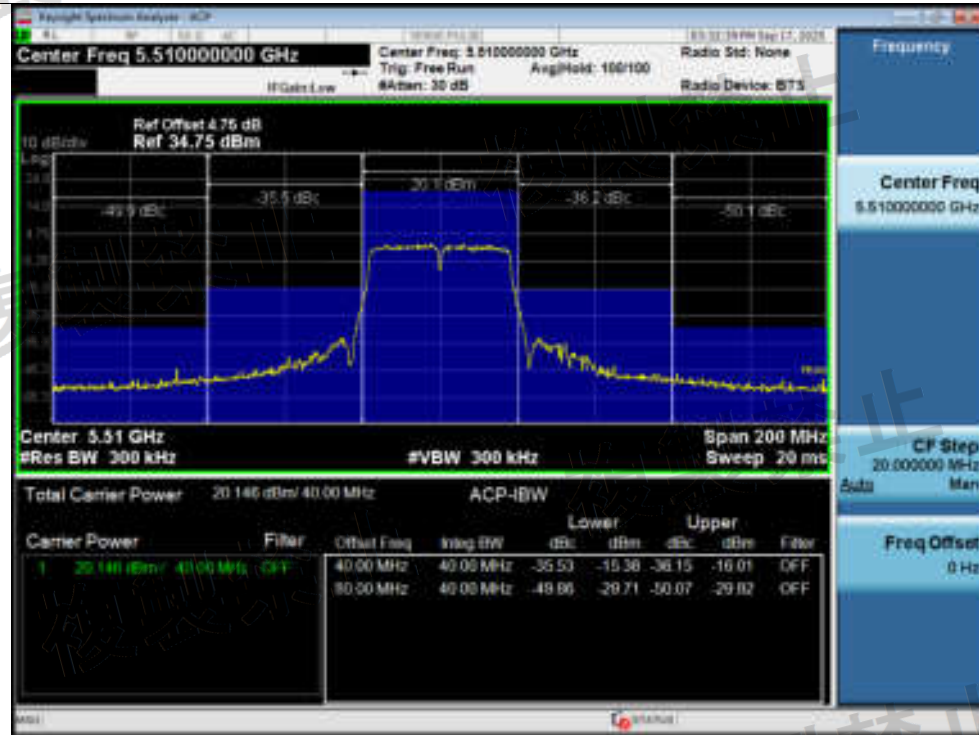
ACEP NVNT n20 5600MHz Ant1



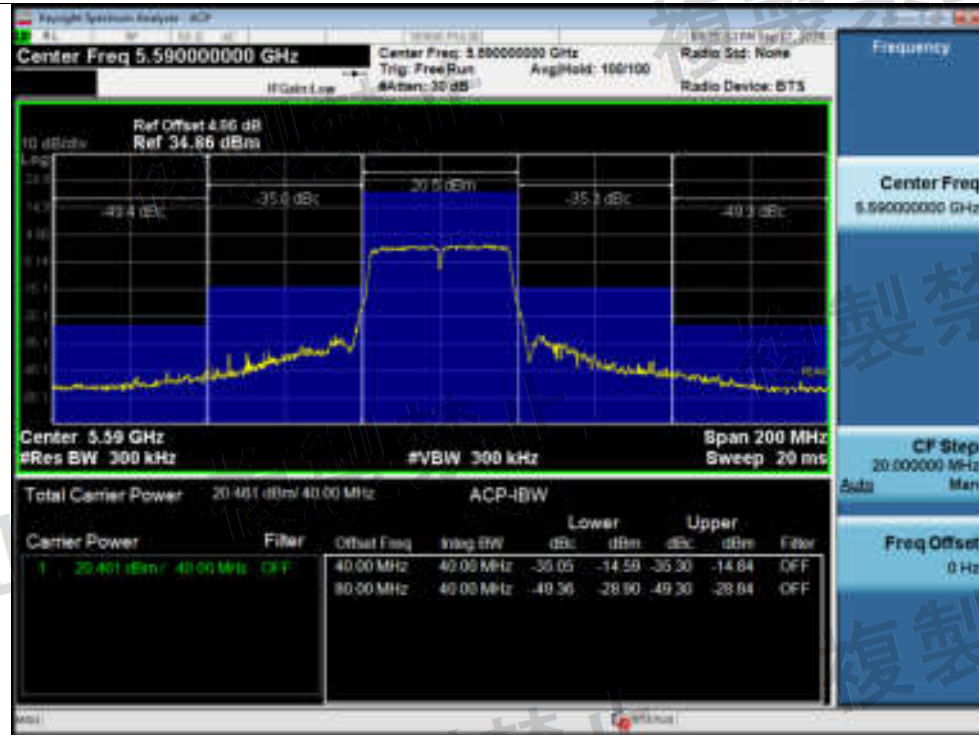
ACEP NVNT n20 5700MHz Ant1



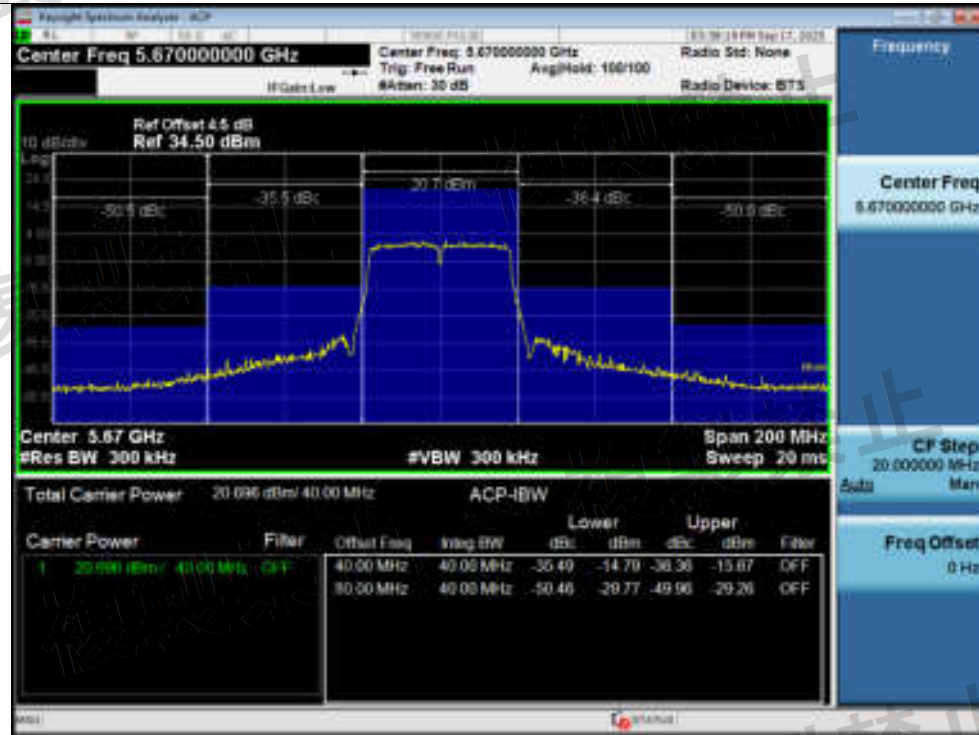
ACEP NVNT n40 5510MHz Ant1



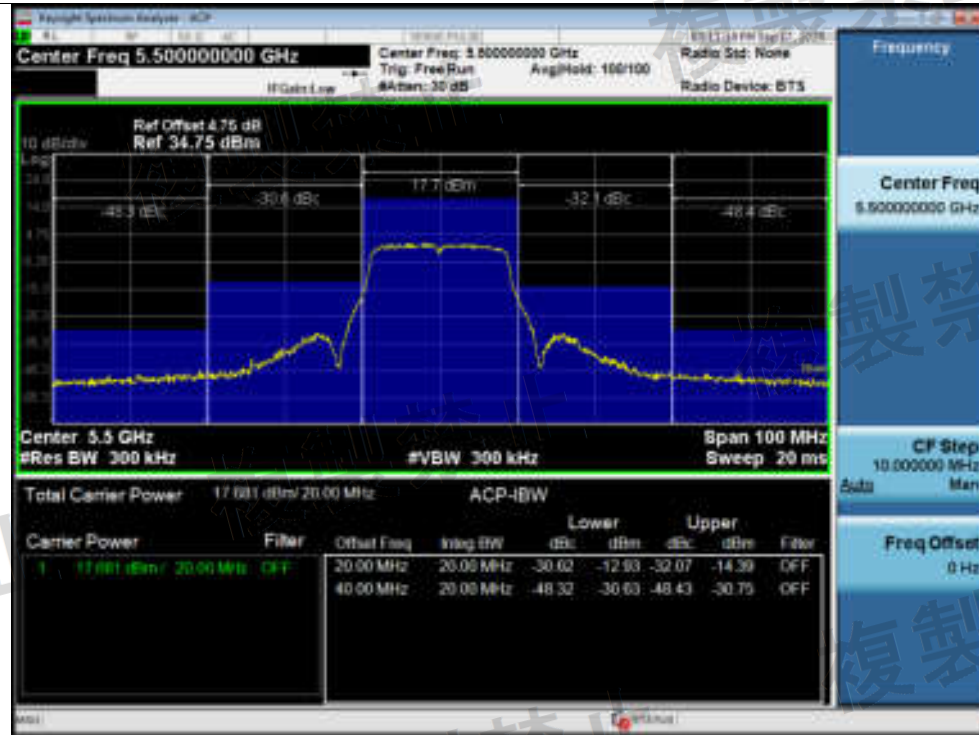
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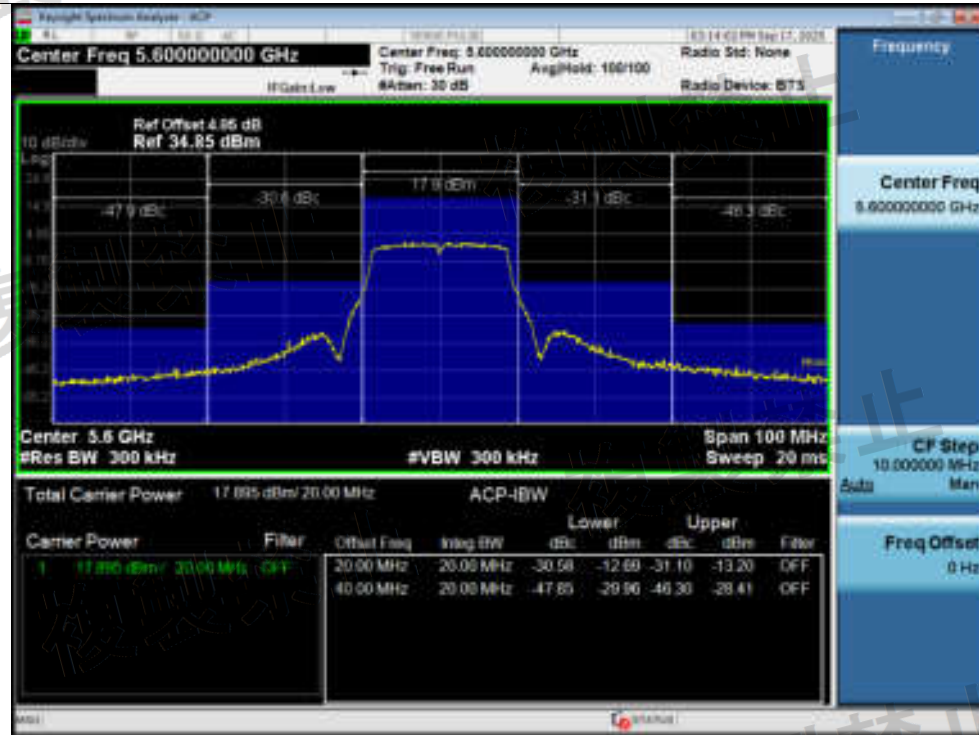
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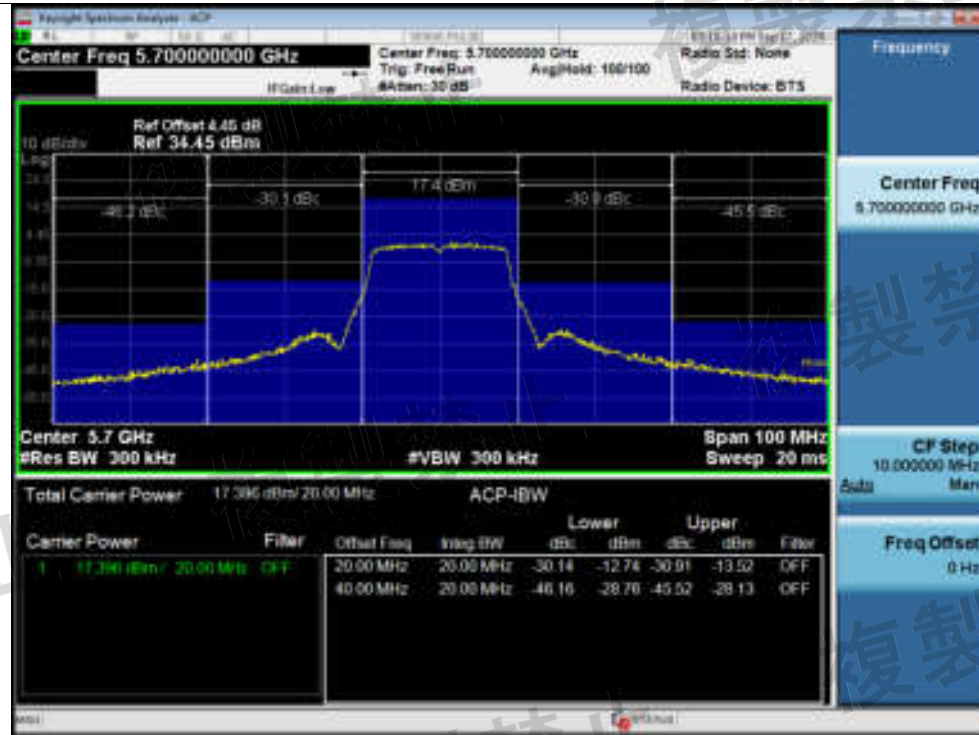
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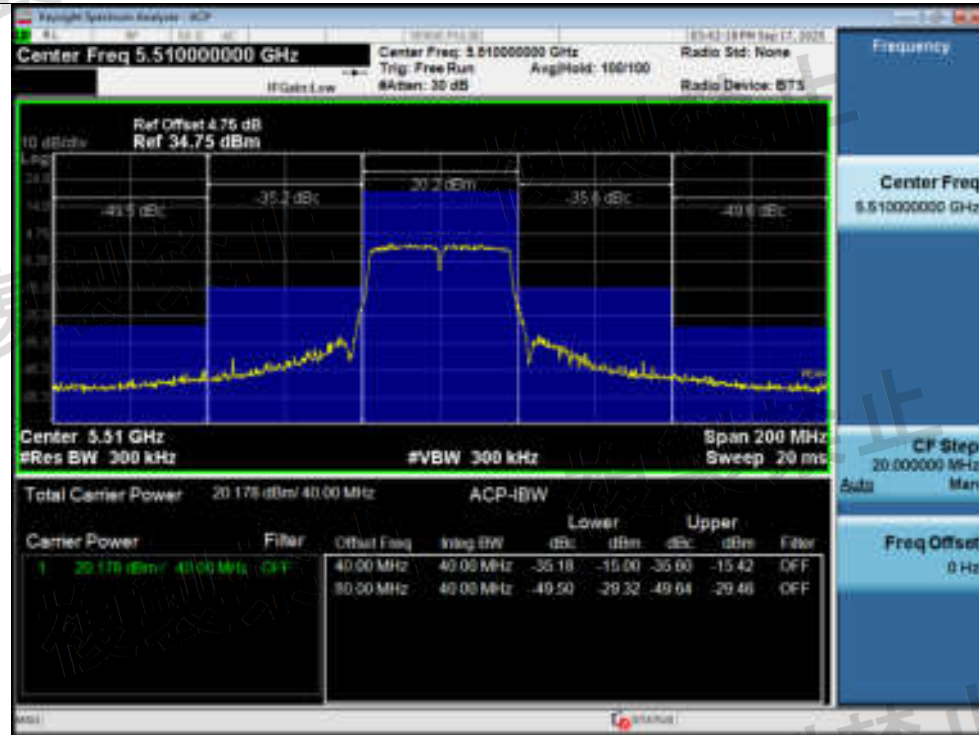
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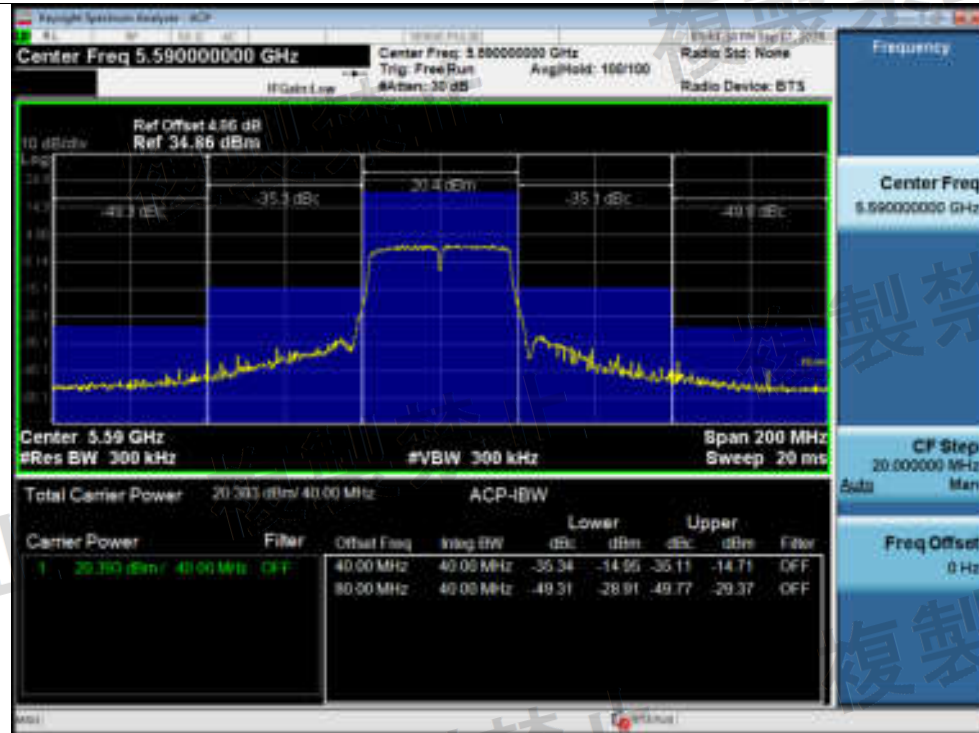
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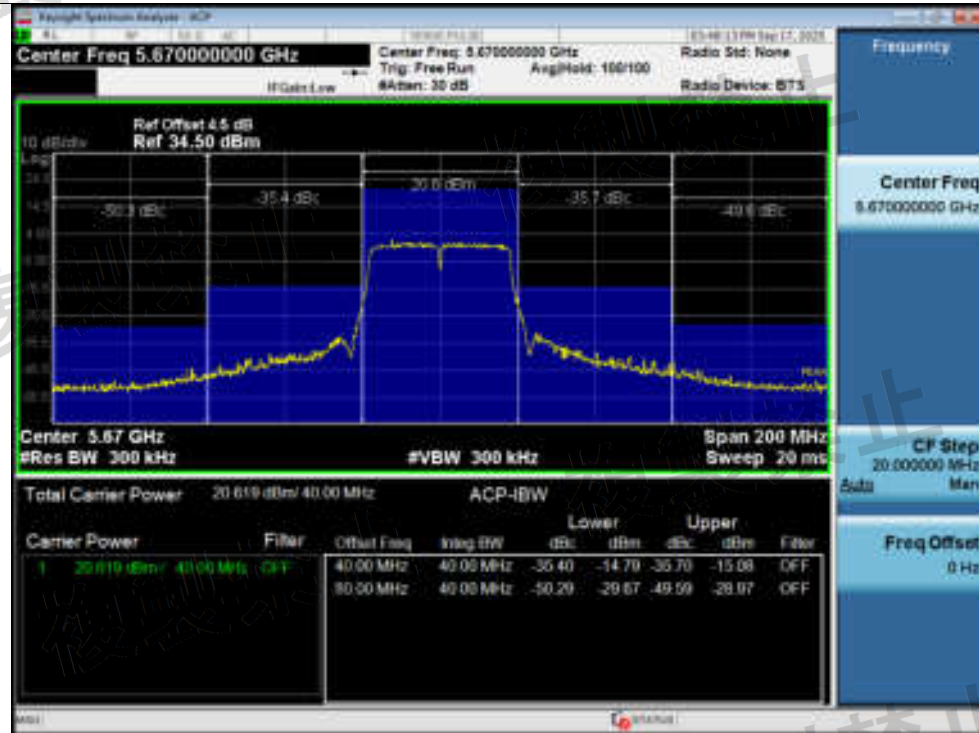
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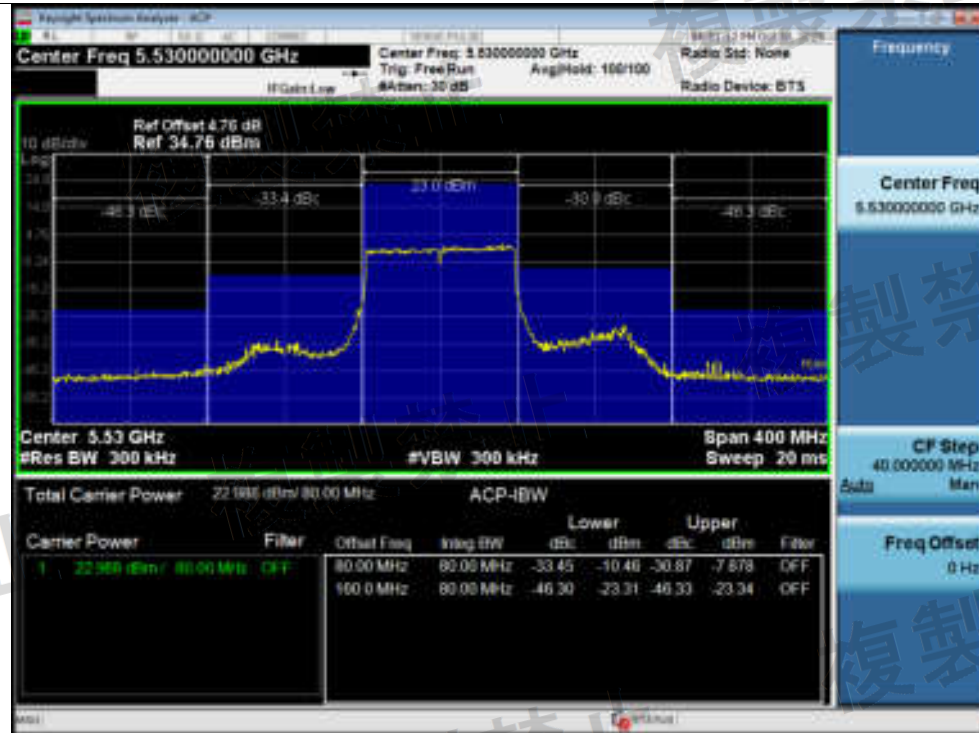
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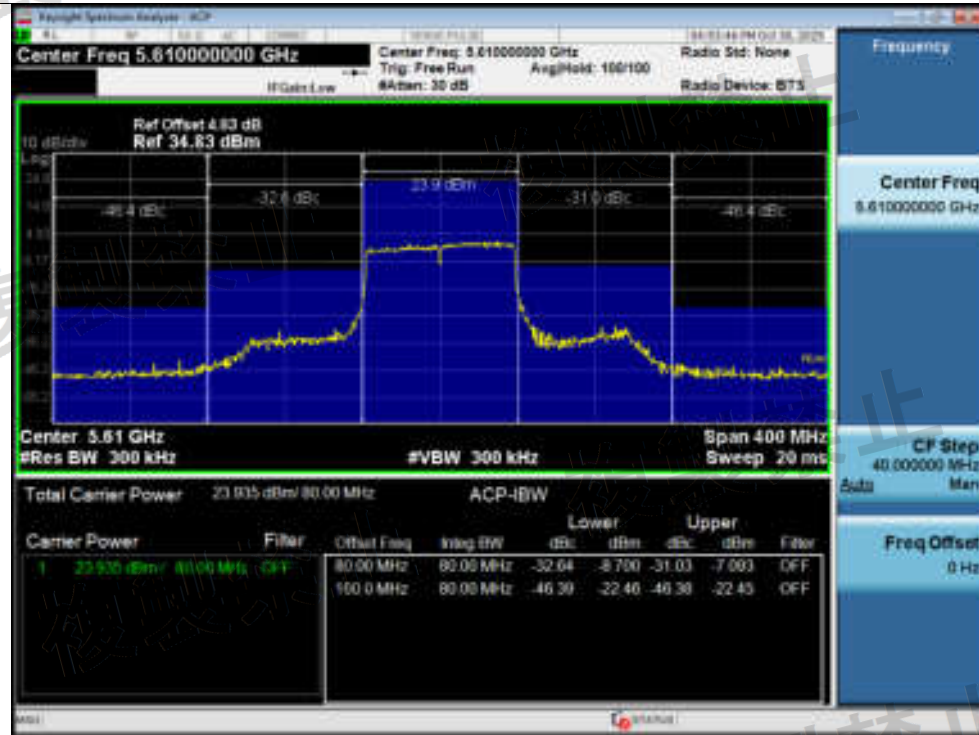
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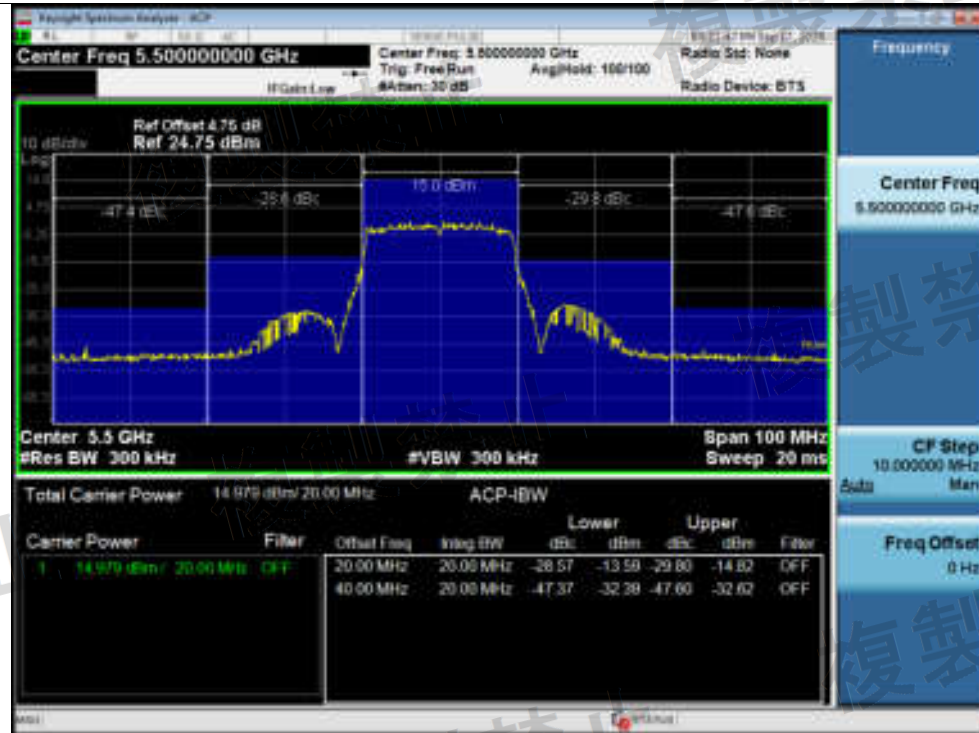
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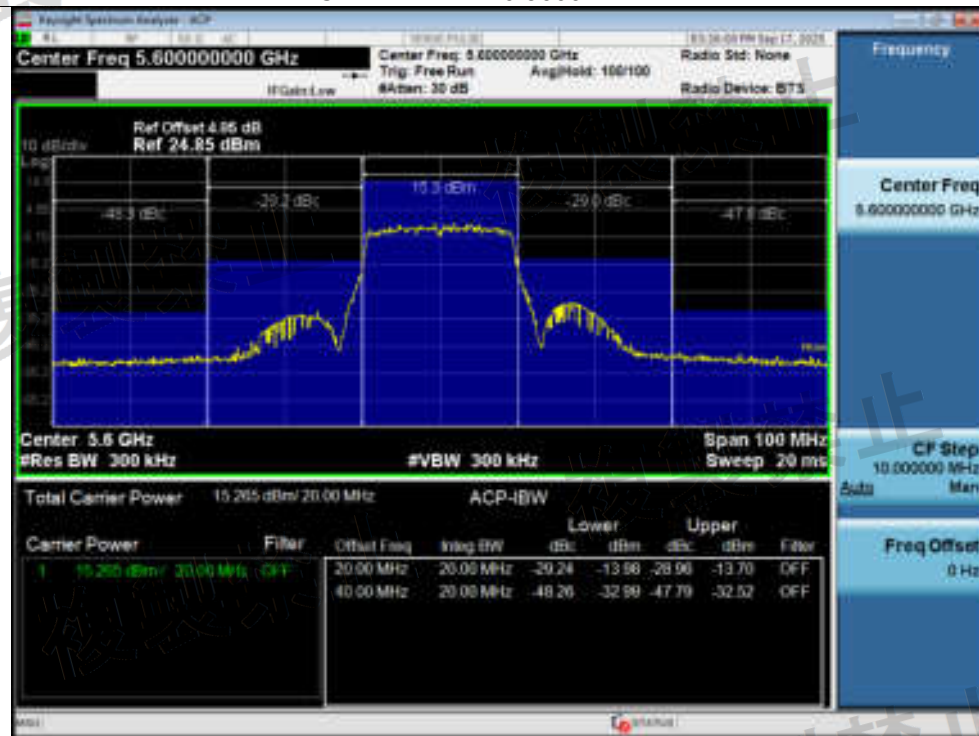
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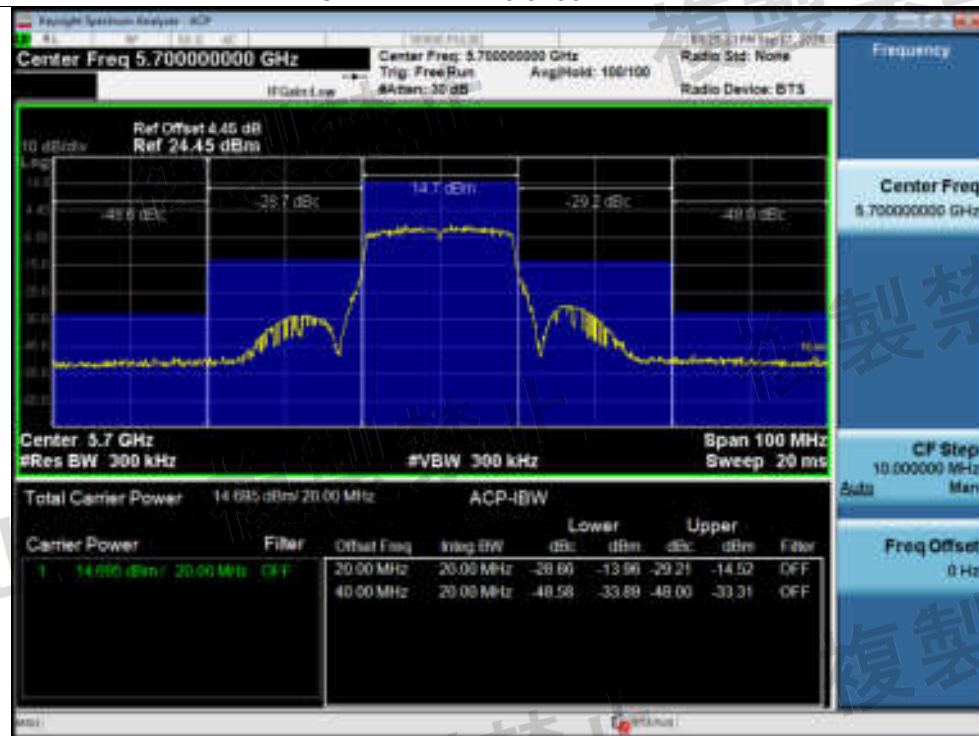
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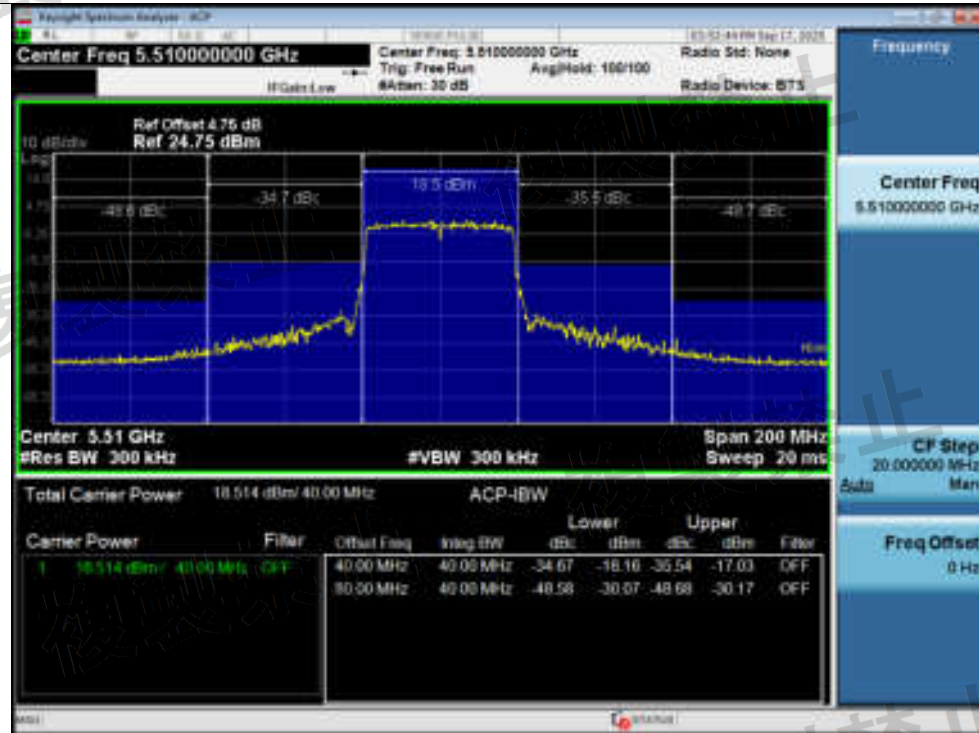
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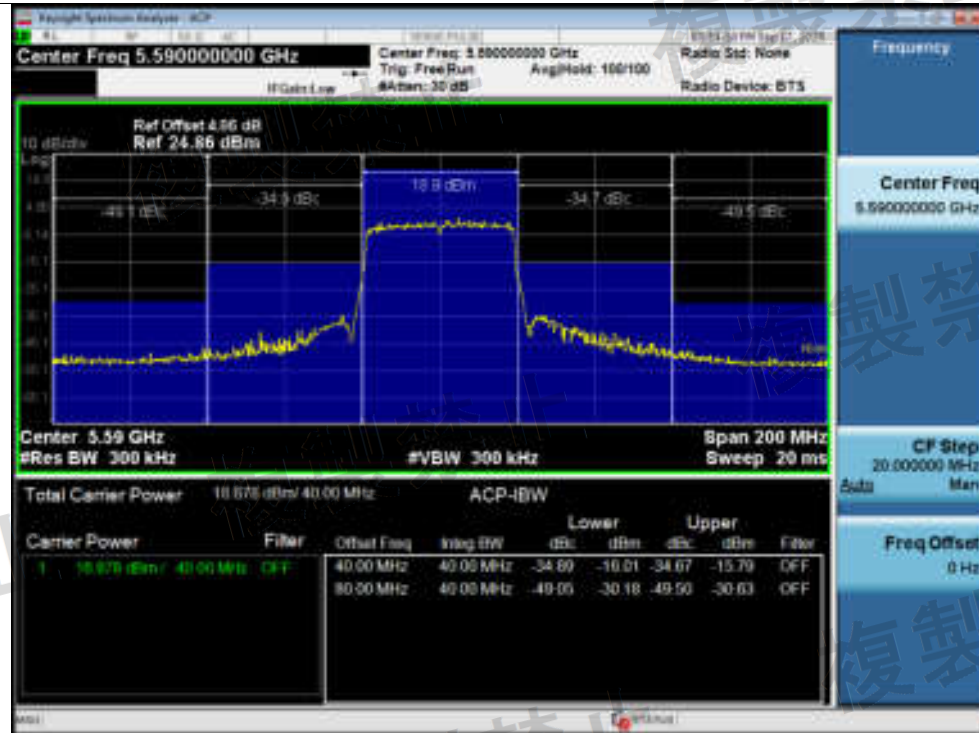
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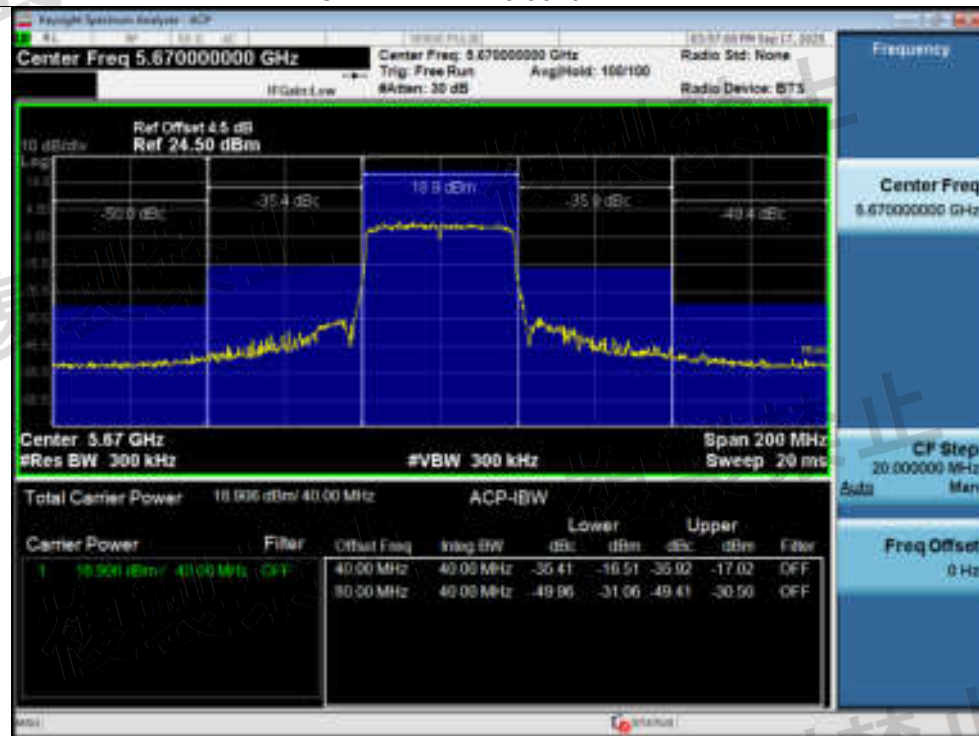
ACEP NVNT ax40 5510MHz Ant1



ACEP NVNT ax40 5590MHz Ant1



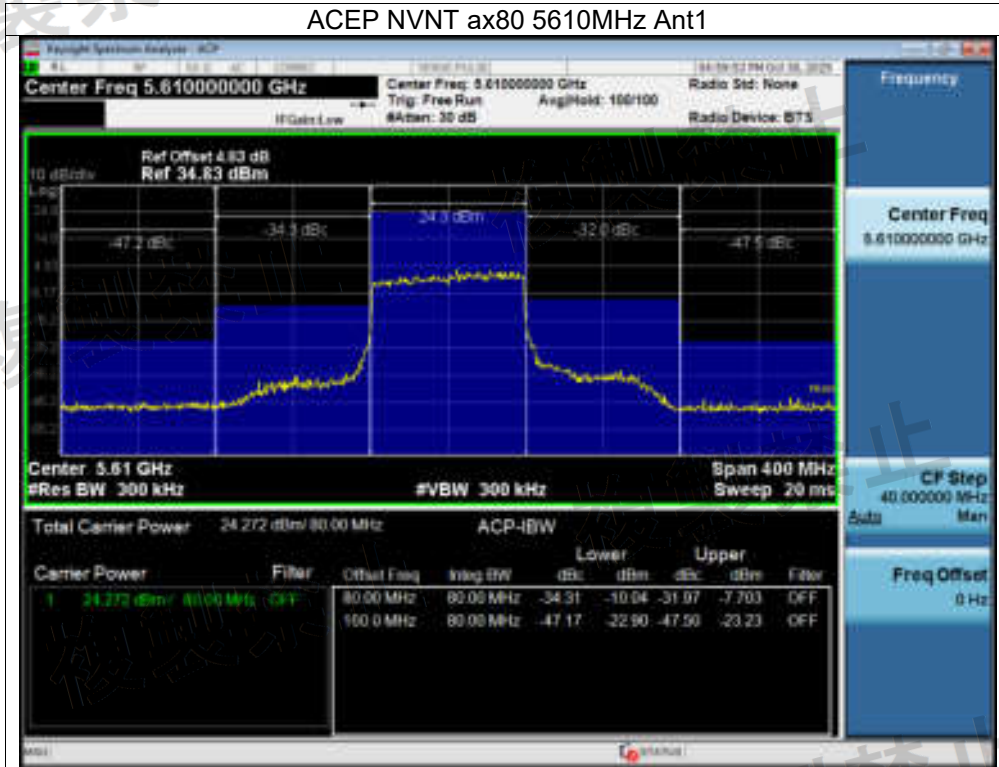
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ACEP NVNT ax80 5530MHz Ant1

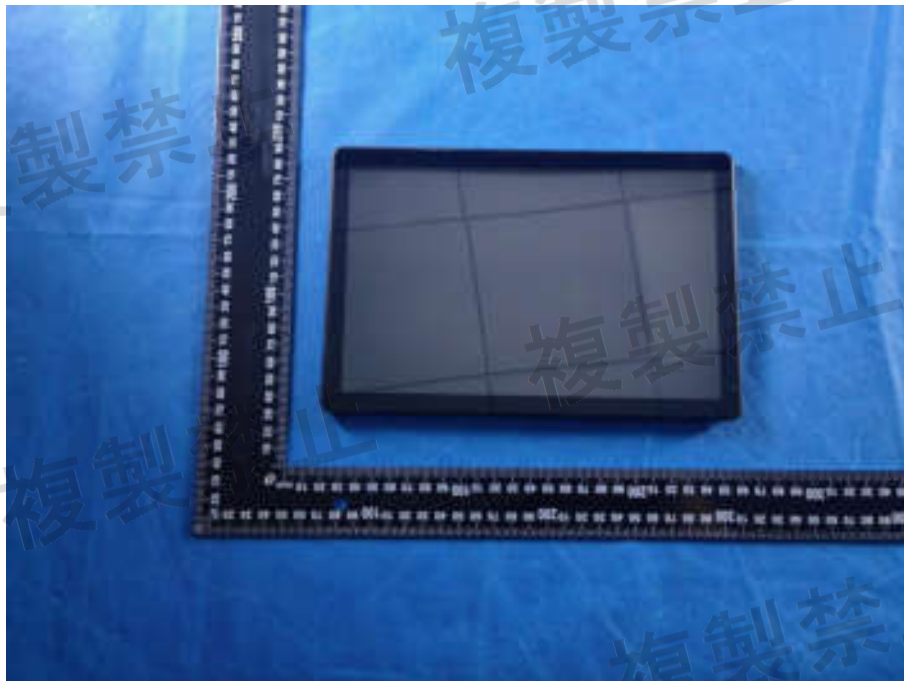


ACEP NVNT ax80 5610MHz Ant1



16. EUT Photographs

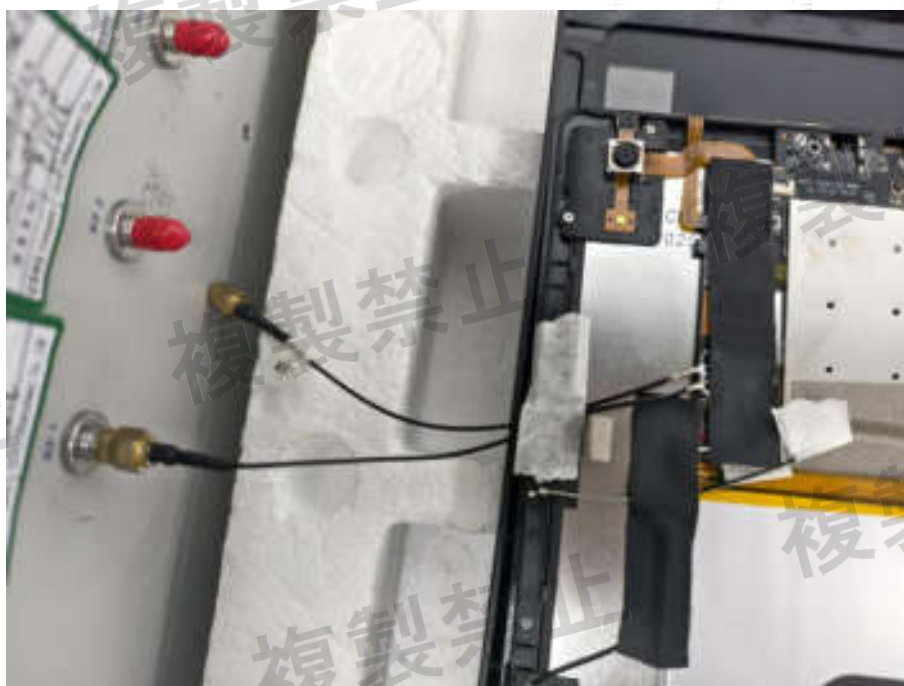
EUT Photo



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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***** END *****