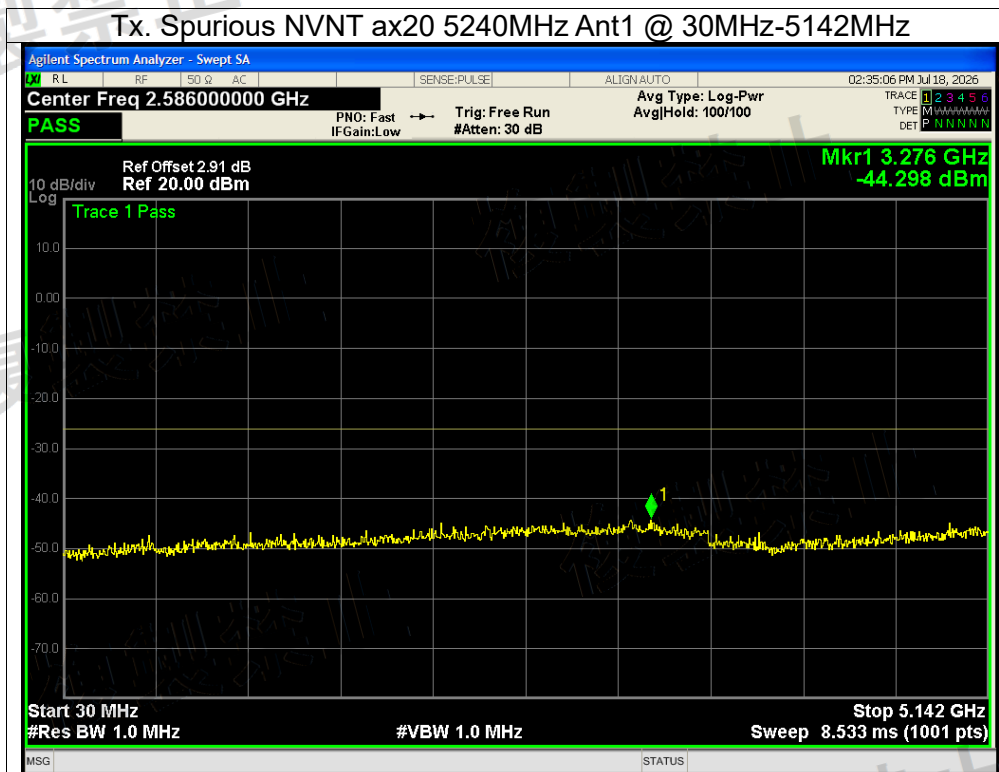
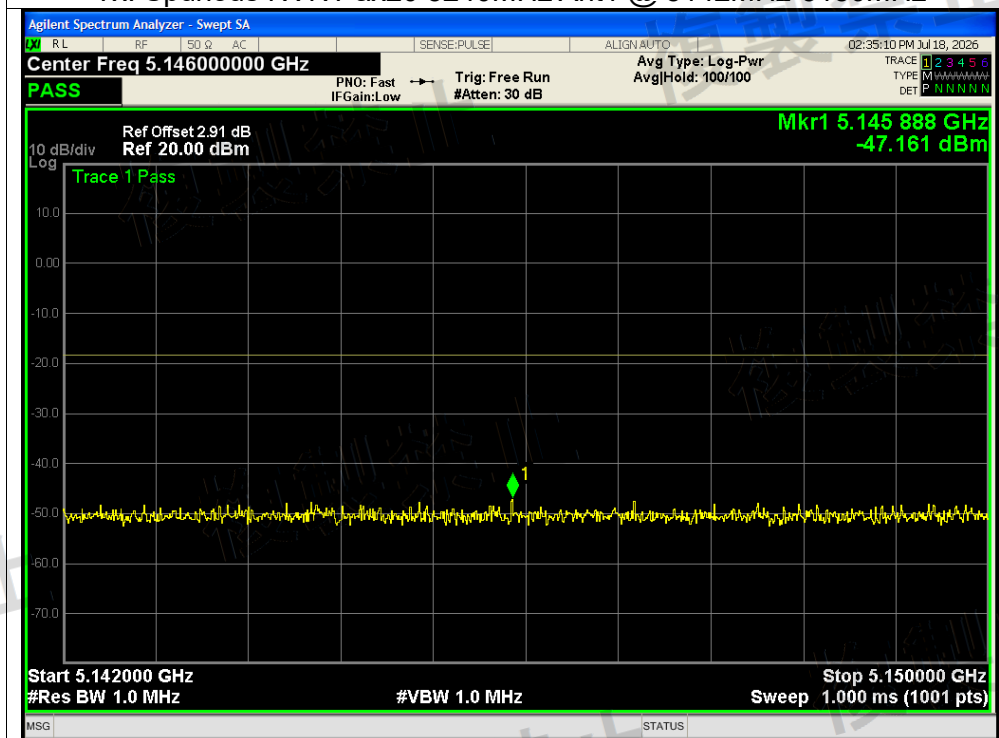




Tx. Spurious NVNT ax20 5240MHz Ant1 @ 30MHz-5142MHz

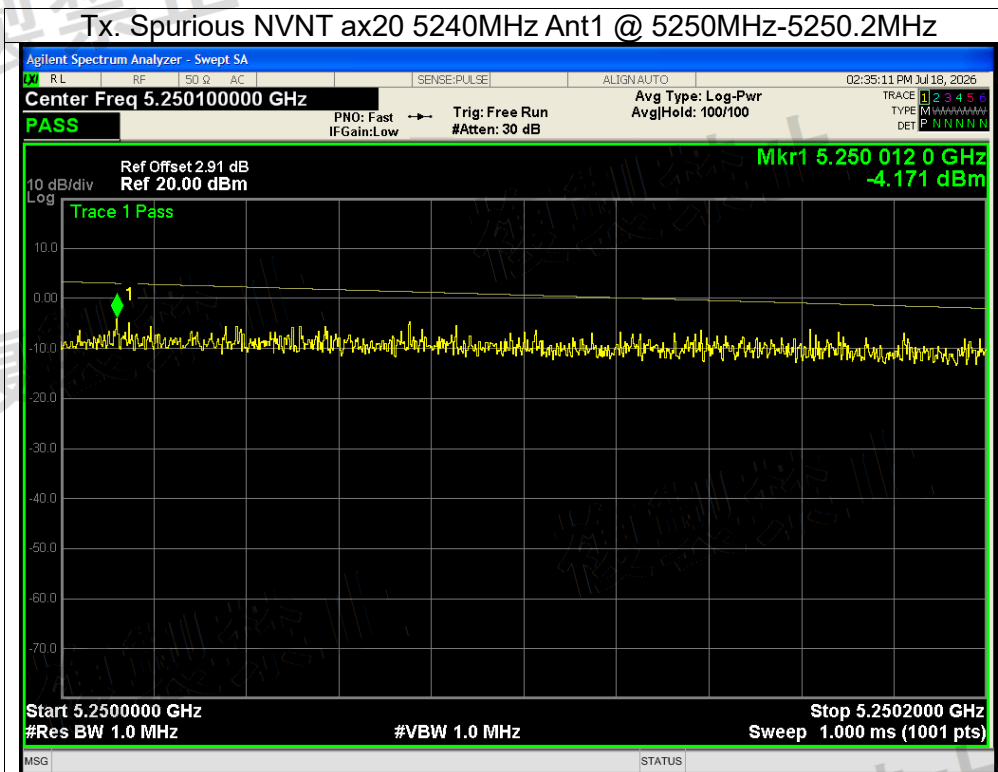


Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5142MHz-5150MHz

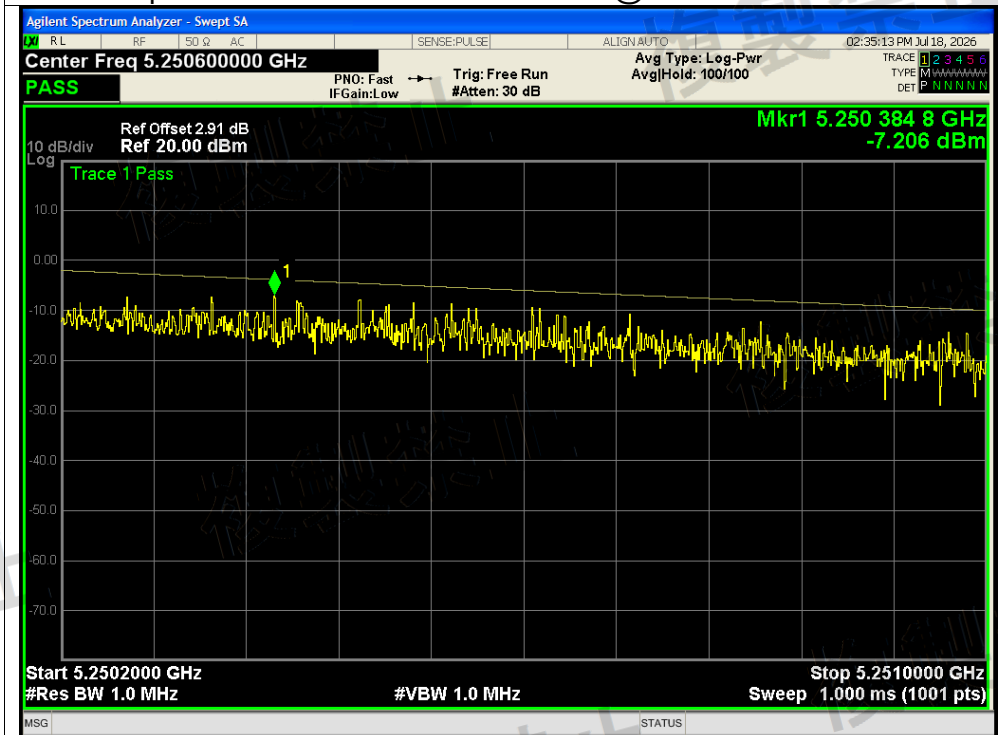




Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5250MHz-5250.2MHz

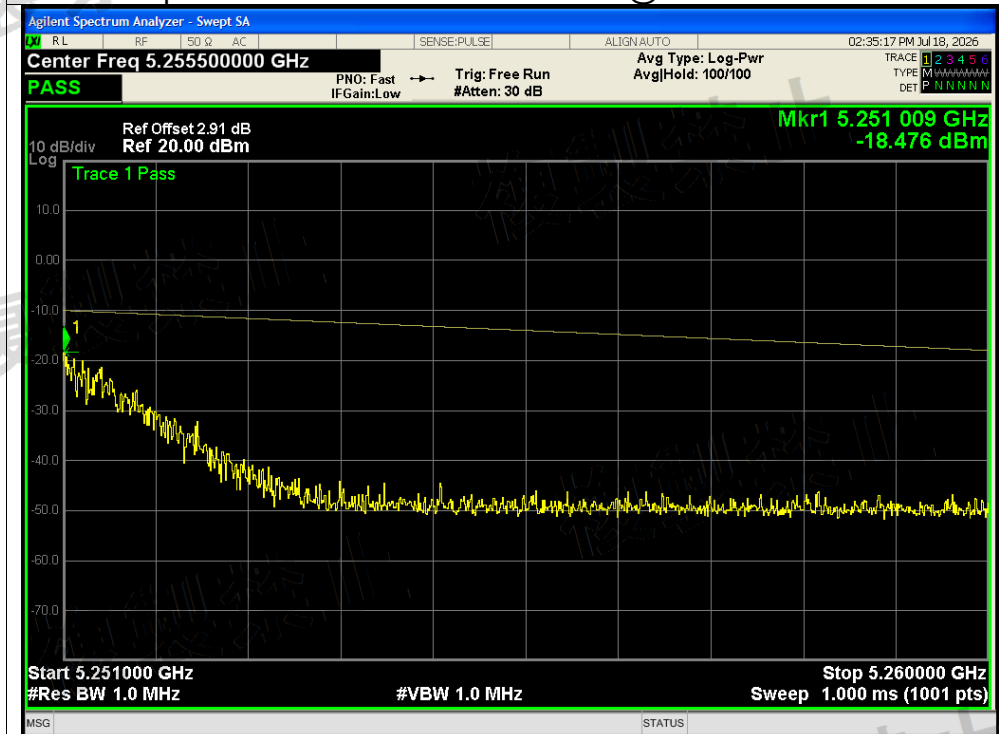


Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5250.2MHz-5251MHz

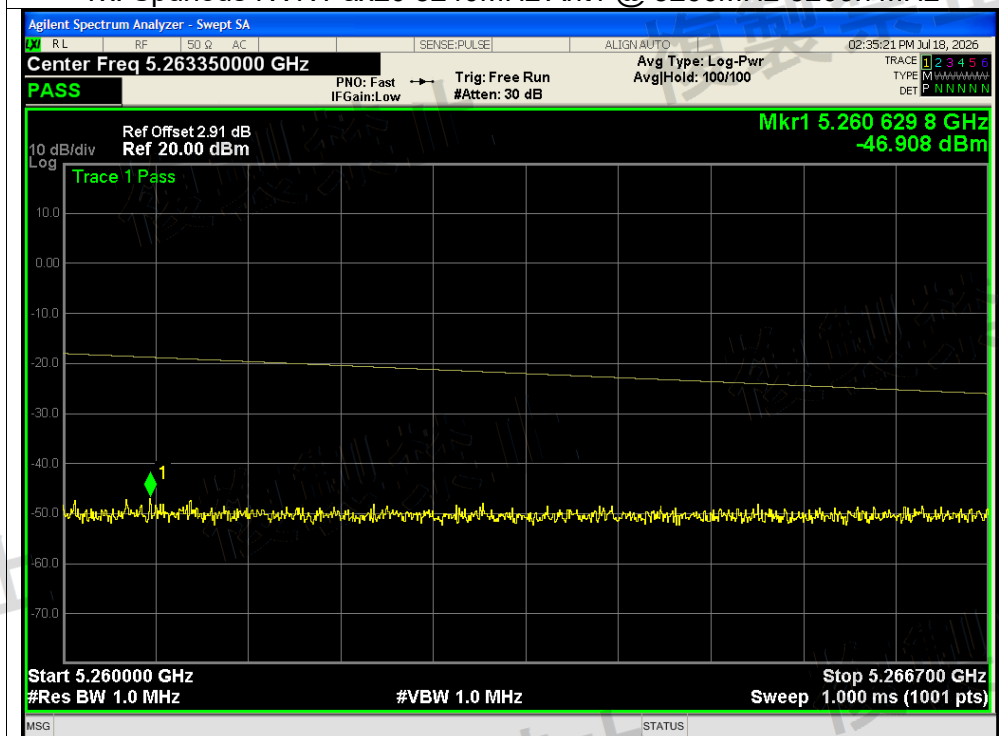




Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5251MHz-5260MHz

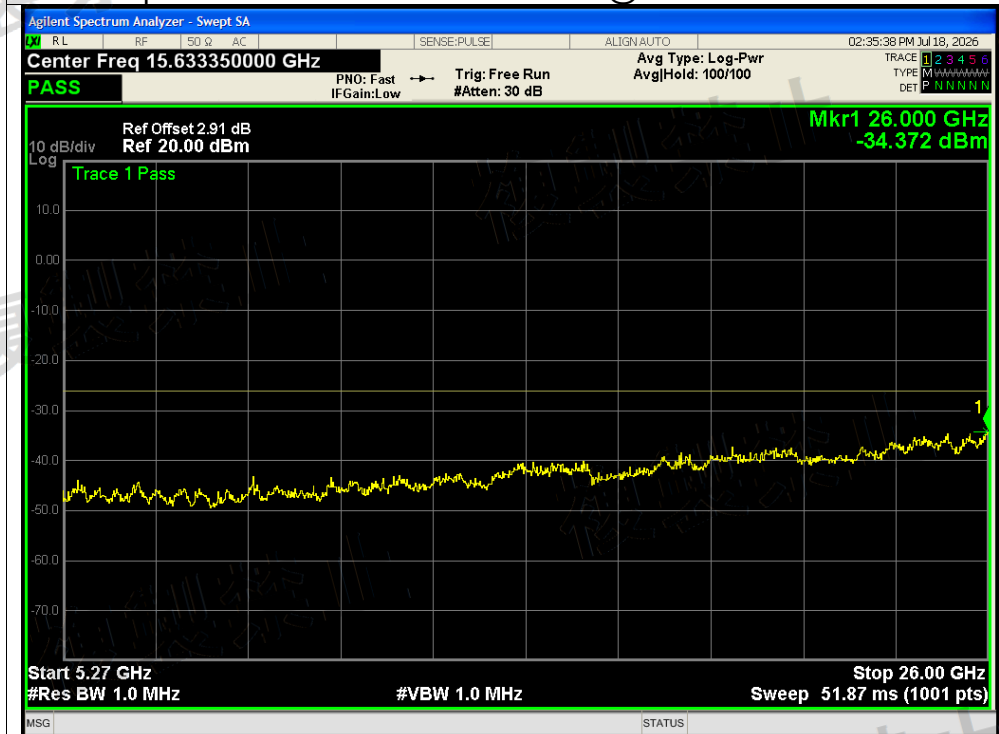


Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5260MHz-5266.7MHz

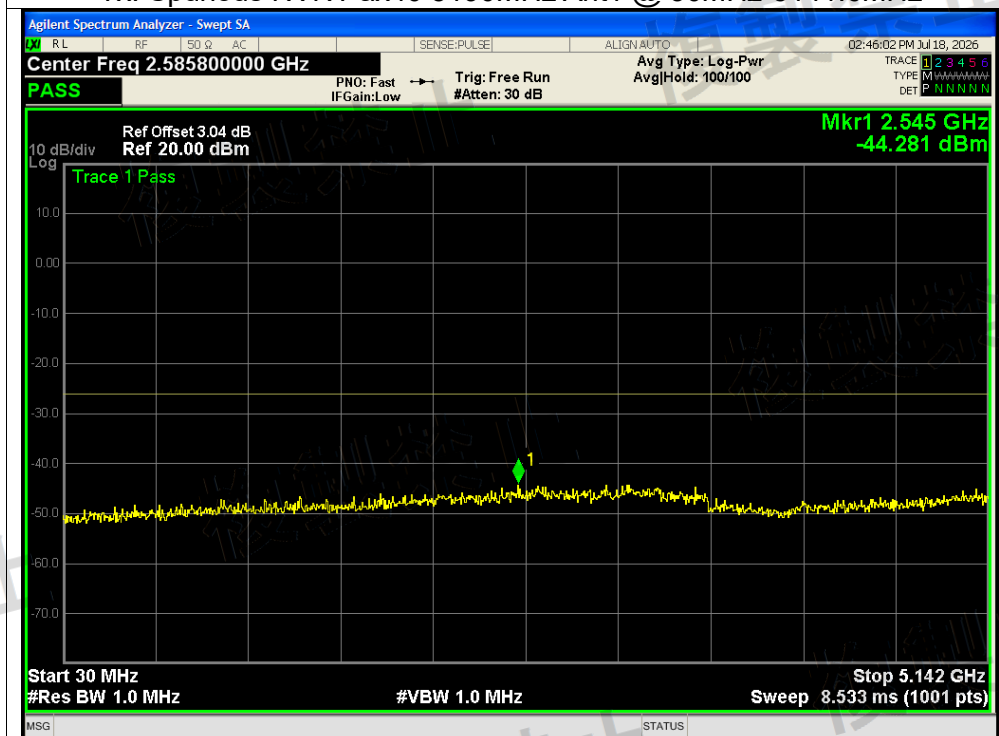




Tx. Spurious NVNT ax20 5240MHz Ant1 @ 5266.7MHz-26000MHz

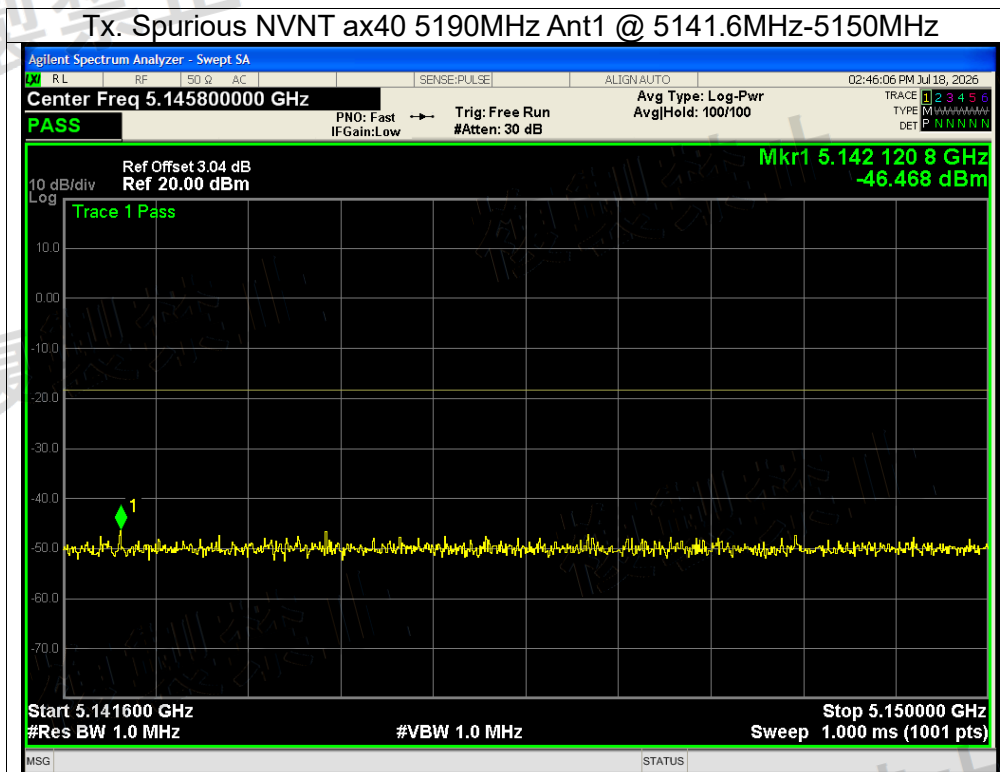


Tx. Spurious NVNT ax40 5190MHz Ant1 @ 30MHz-5141.6MHz





Tx. Spurious NVNT ax40 5190MHz Ant1 @ 5141.6MHz-5150MHz

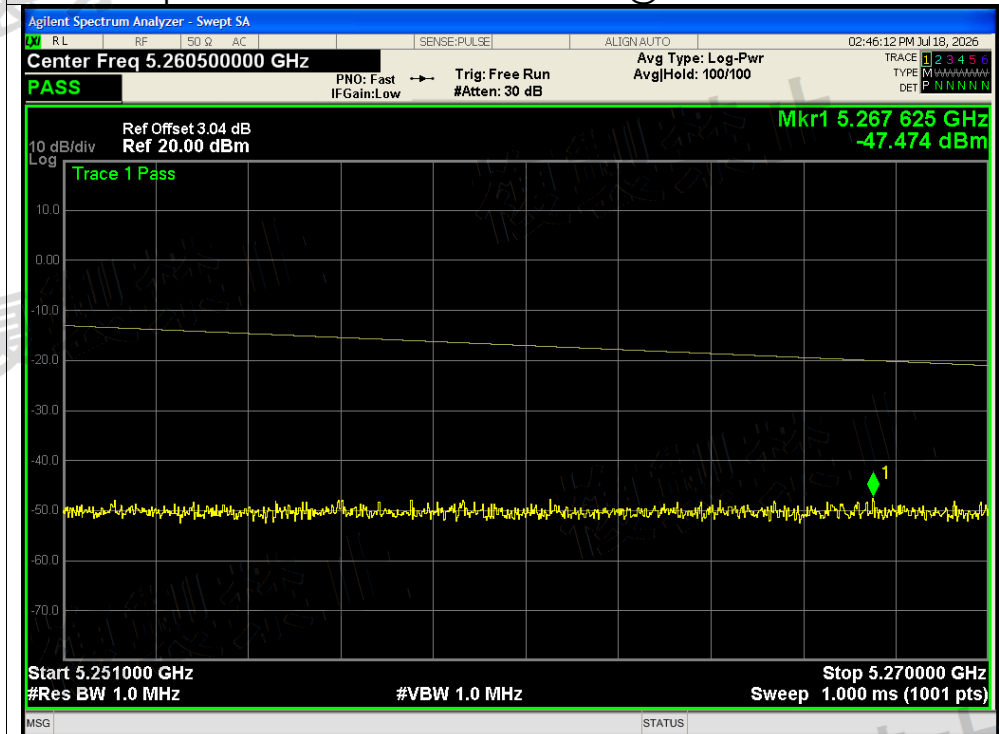


Tx. Spurious NVNT ax40 5190MHz Ant1 @ 5250MHz-5251MHz

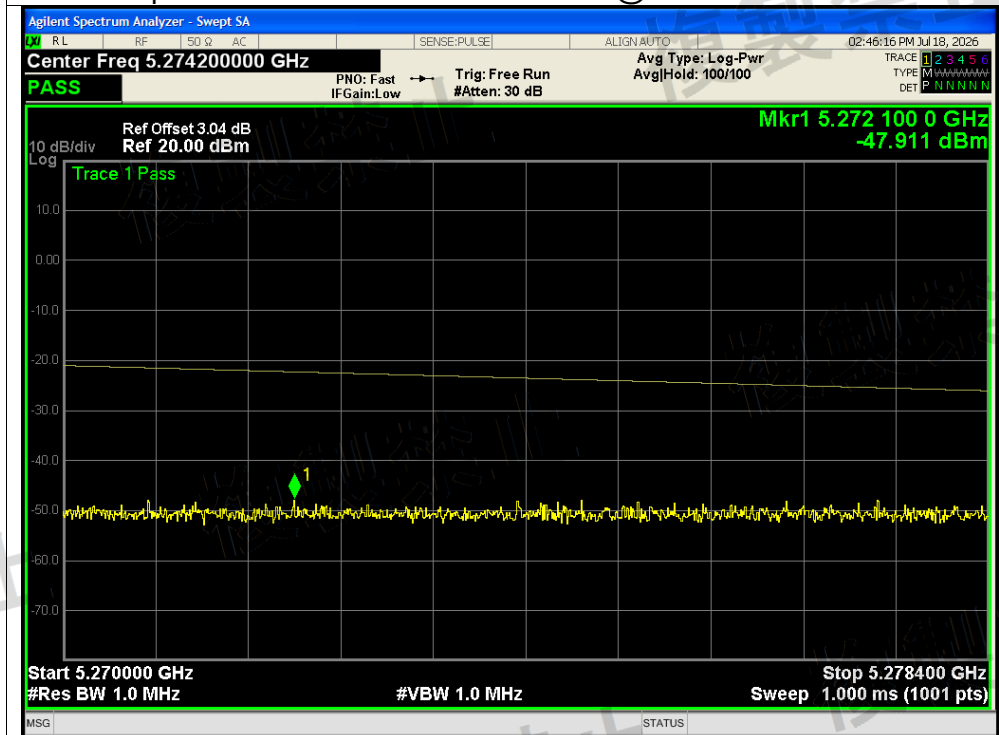




Tx. Spurious NVNT ax40 5190MHz Ant1 @ 5251MHz-5270MHz

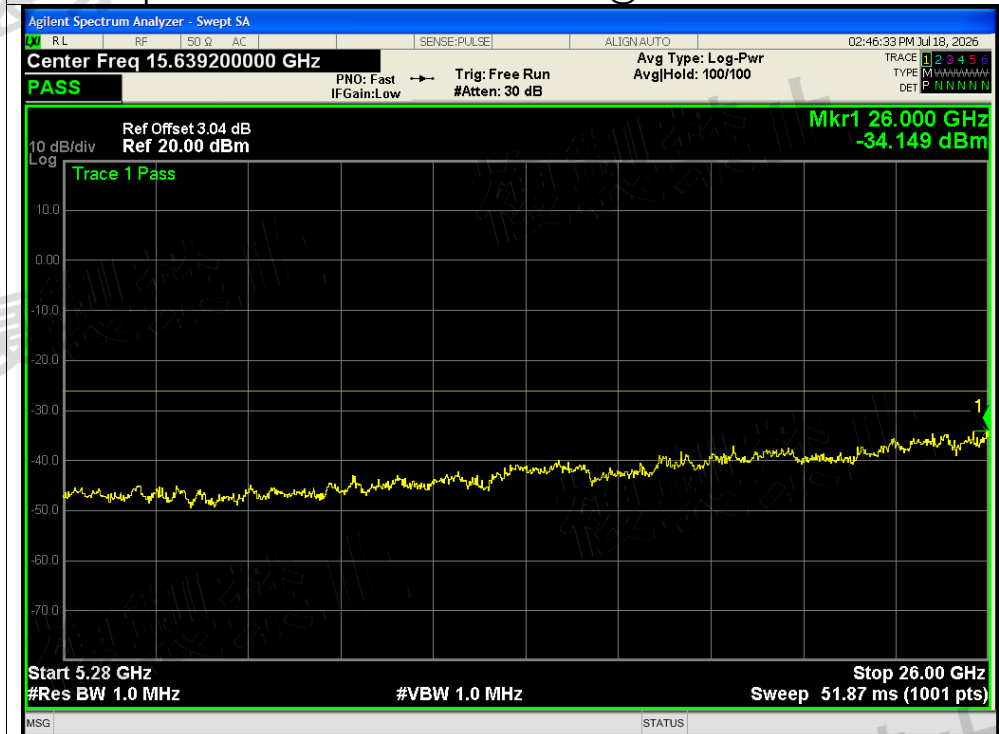


Tx. Spurious NVNT ax40 5190MHz Ant1 @ 5270MHz-5278.4MHz

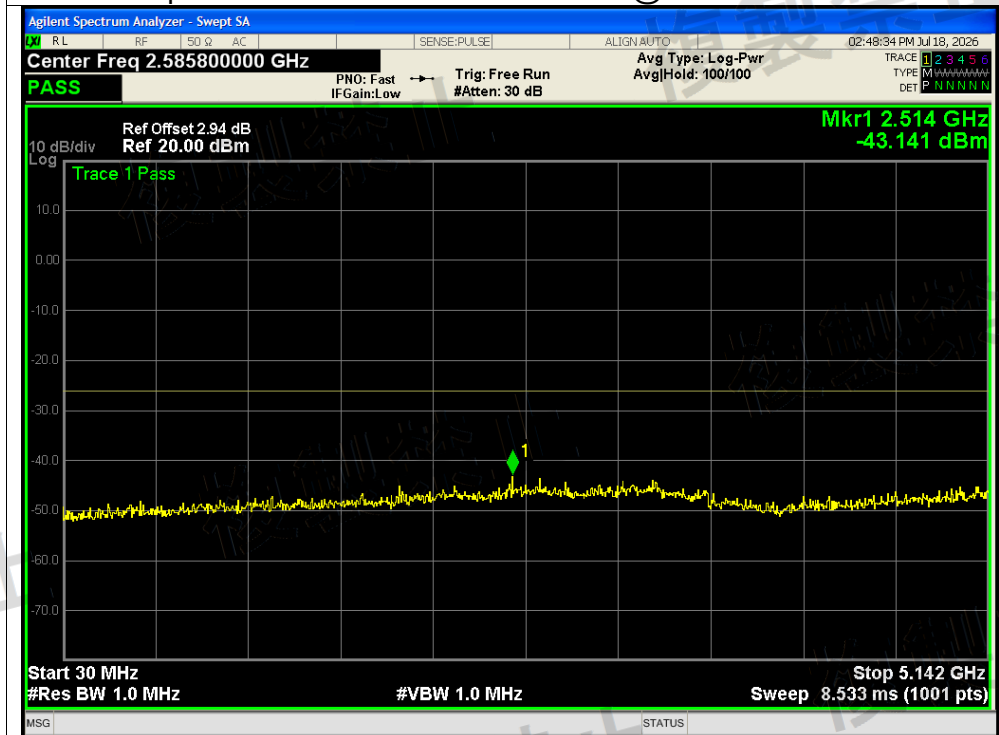




Tx. Spurious NVNT ax40 5190MHz Ant1 @ 5278.4MHz-26000MHz

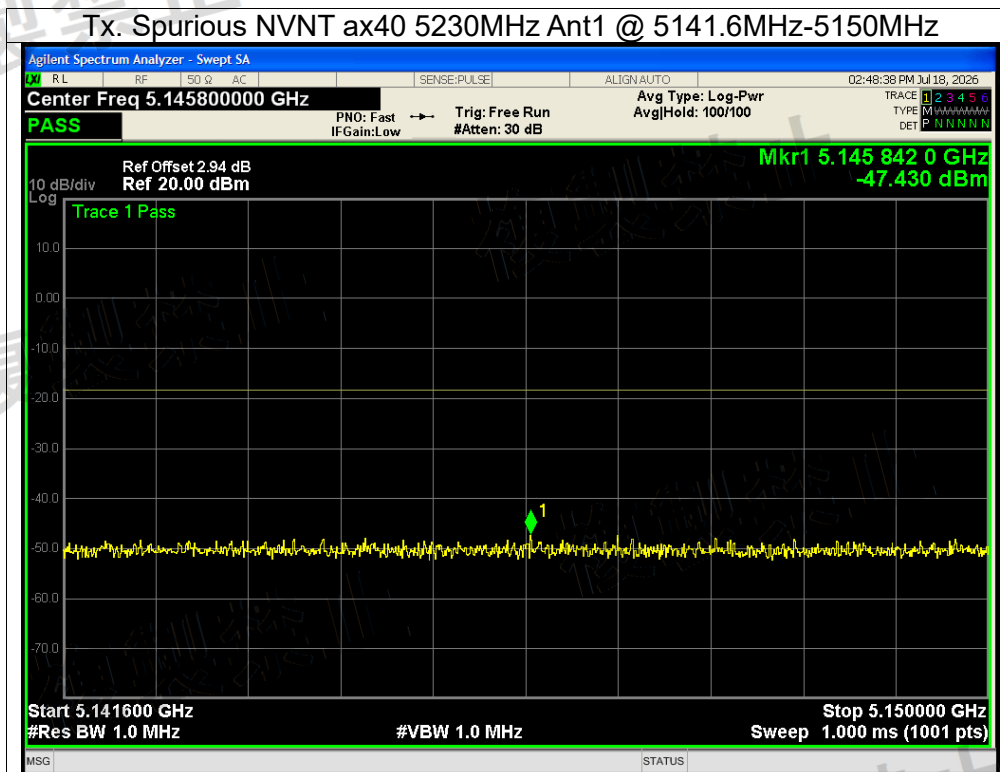


Tx. Spurious NVNT ax40 5230MHz Ant1 @ 30MHz-5141.6MHz

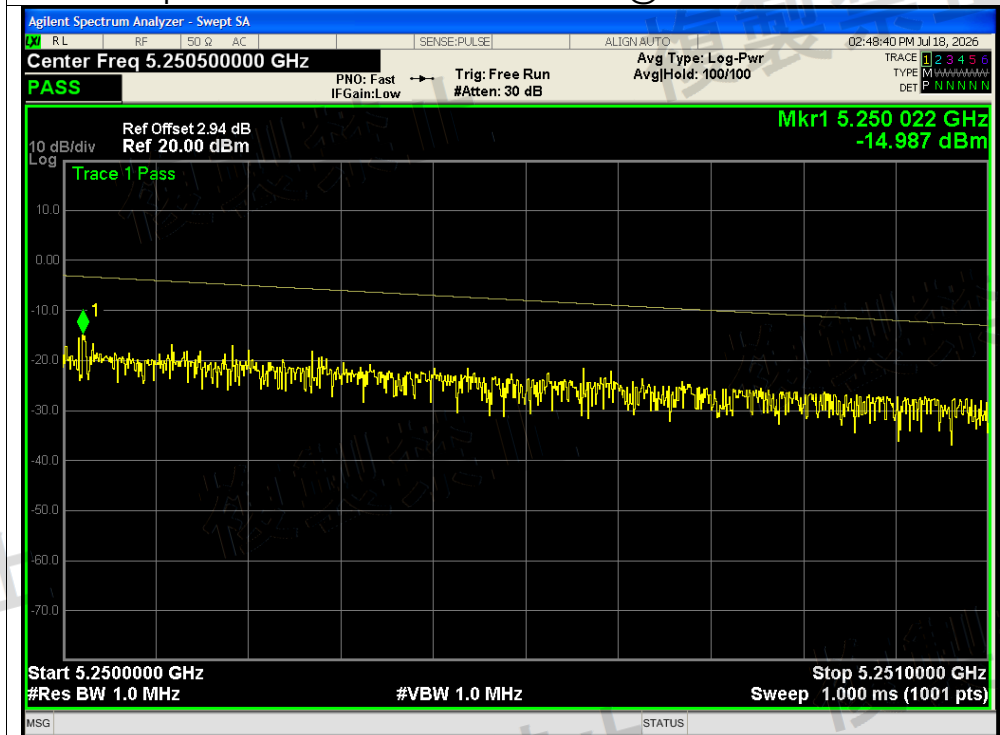




Tx. Spurious NVNT ax40 5230MHz Ant1 @ 5141.6MHz-5150MHz

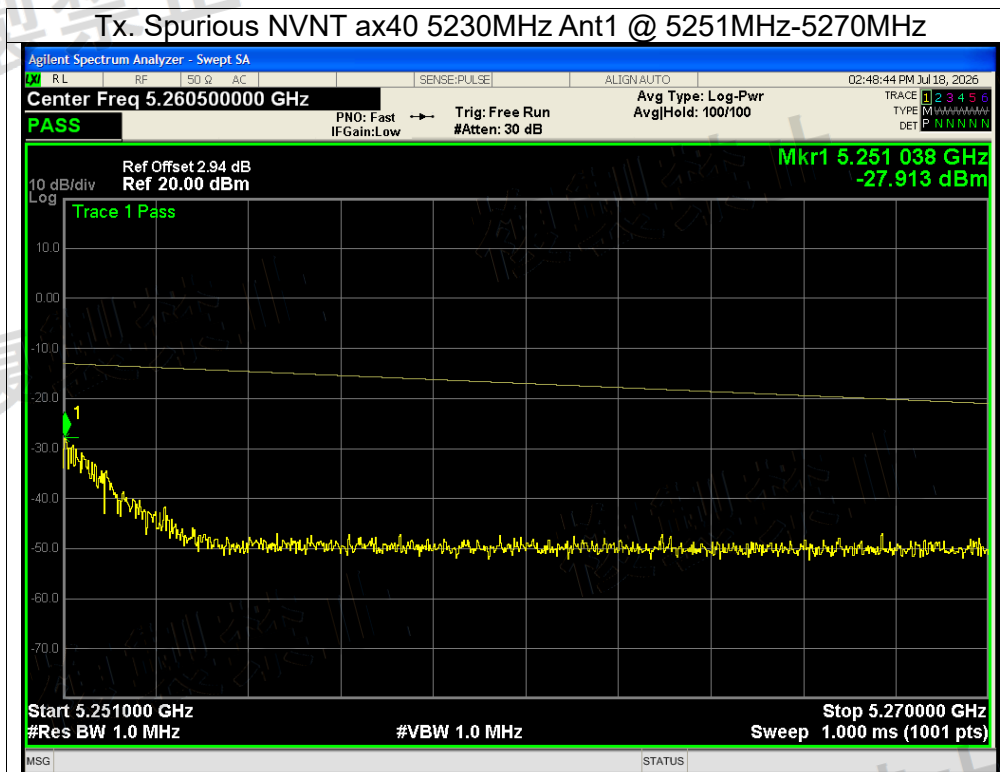


Tx. Spurious NVNT ax40 5230MHz Ant1 @ 5250MHz-5251MHz

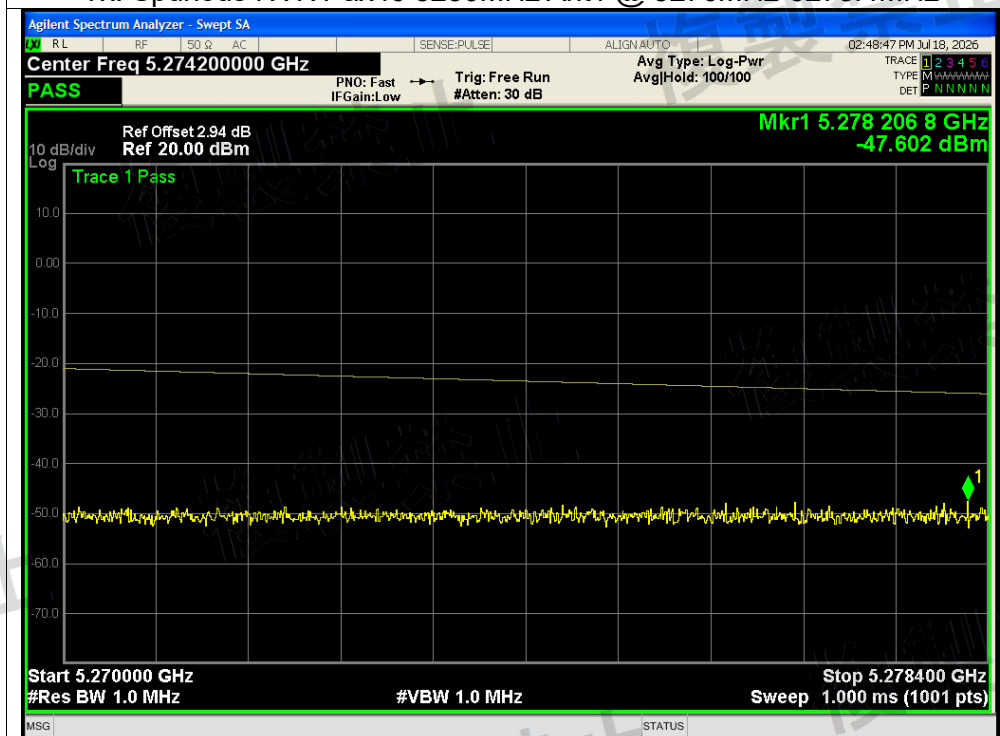




Tx. Spurious NVNT ax40 5230MHz Ant1 @ 5251MHz-5270MHz

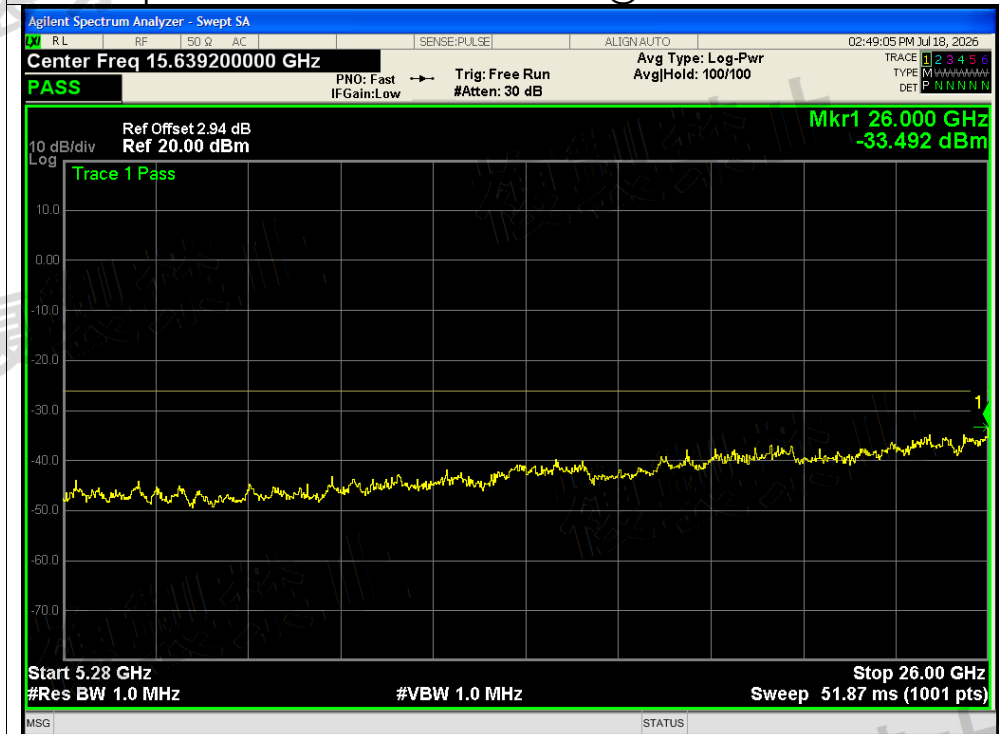


Tx. Spurious NVNT ax40 5230MHz Ant1 @ 5270MHz-5278.4MHz

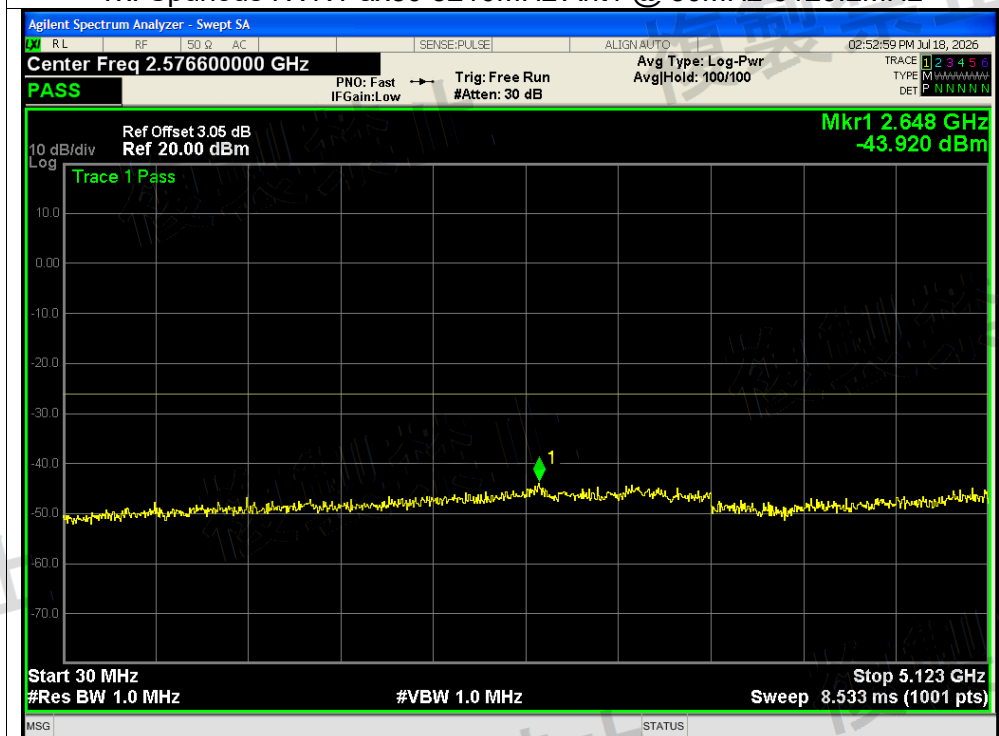




Tx. Spurious NVNT ax40 5230MHz Ant1 @ 5278.4MHz-26000MHz

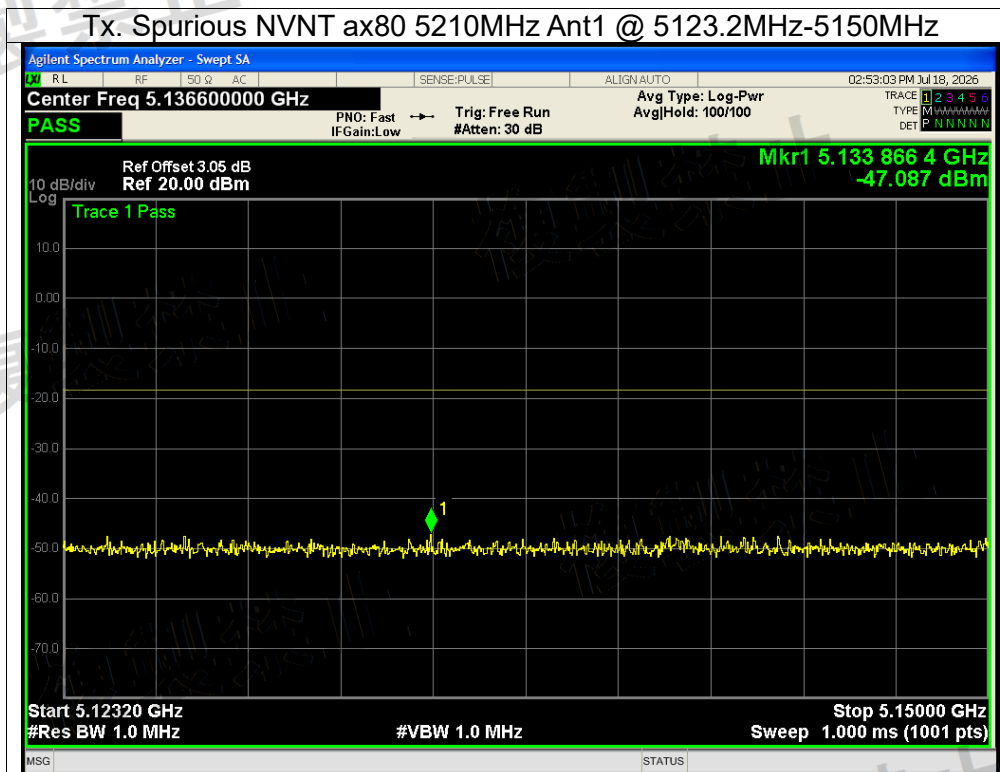


Tx. Spurious NVNT ax80 5210MHz Ant1 @ 30MHz-5123.2MHz

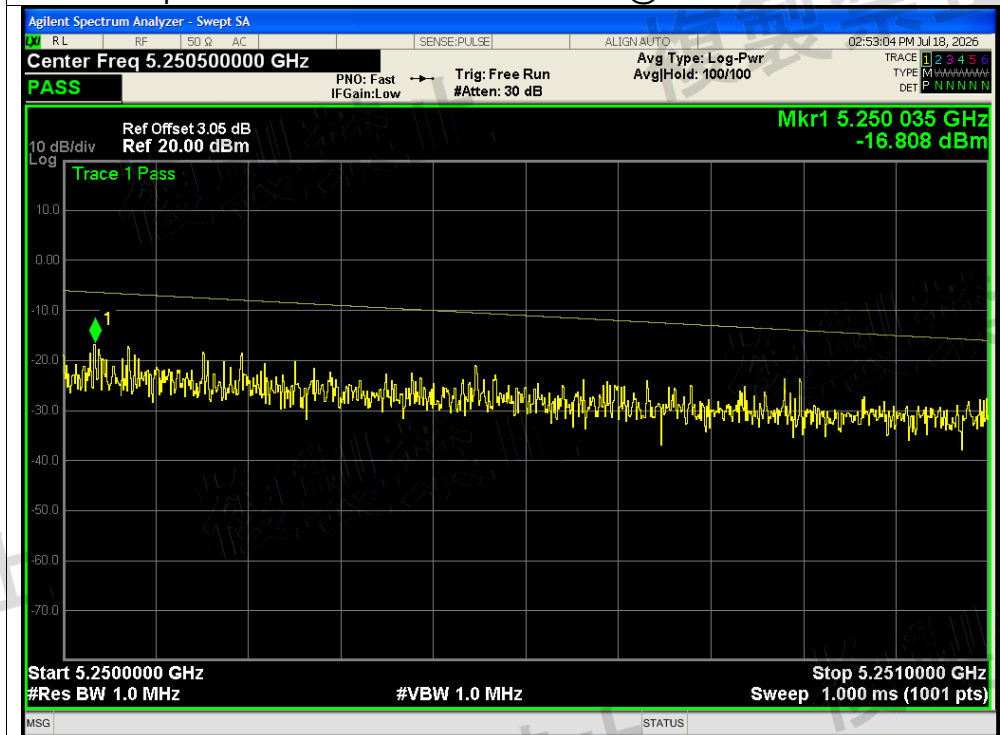




Tx. Spurious NVNT ax80 5210MHz Ant1 @ 5123.2MHz-5150MHz

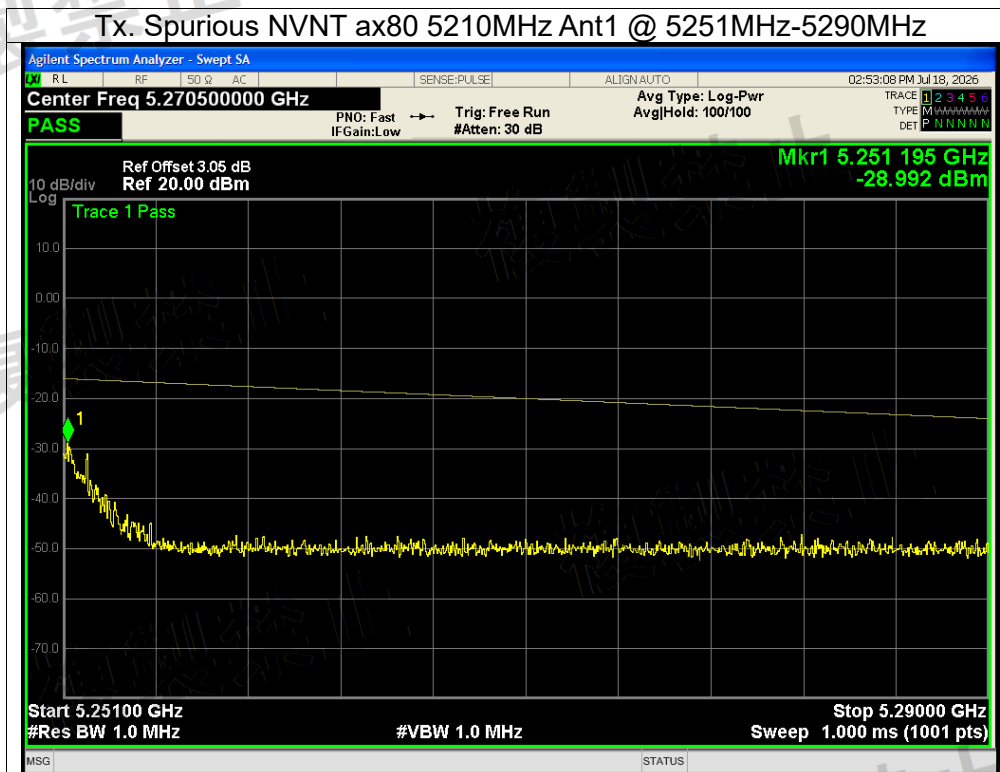


Tx. Spurious NVNT ax80 5210MHz Ant1 @ 5250MHz-5251MHz

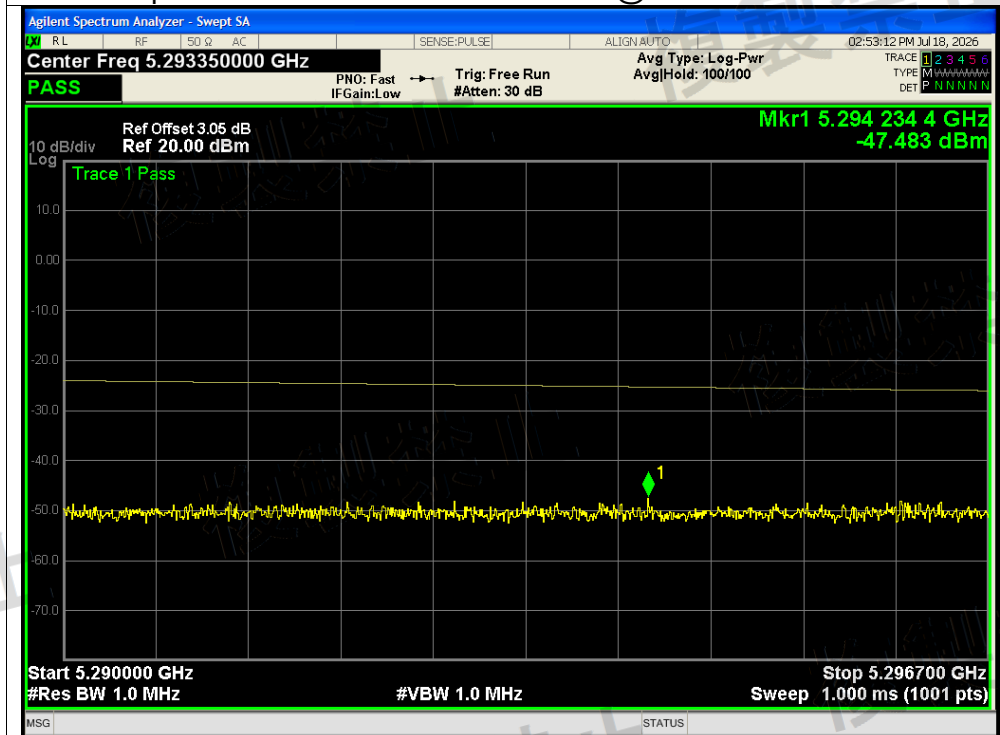


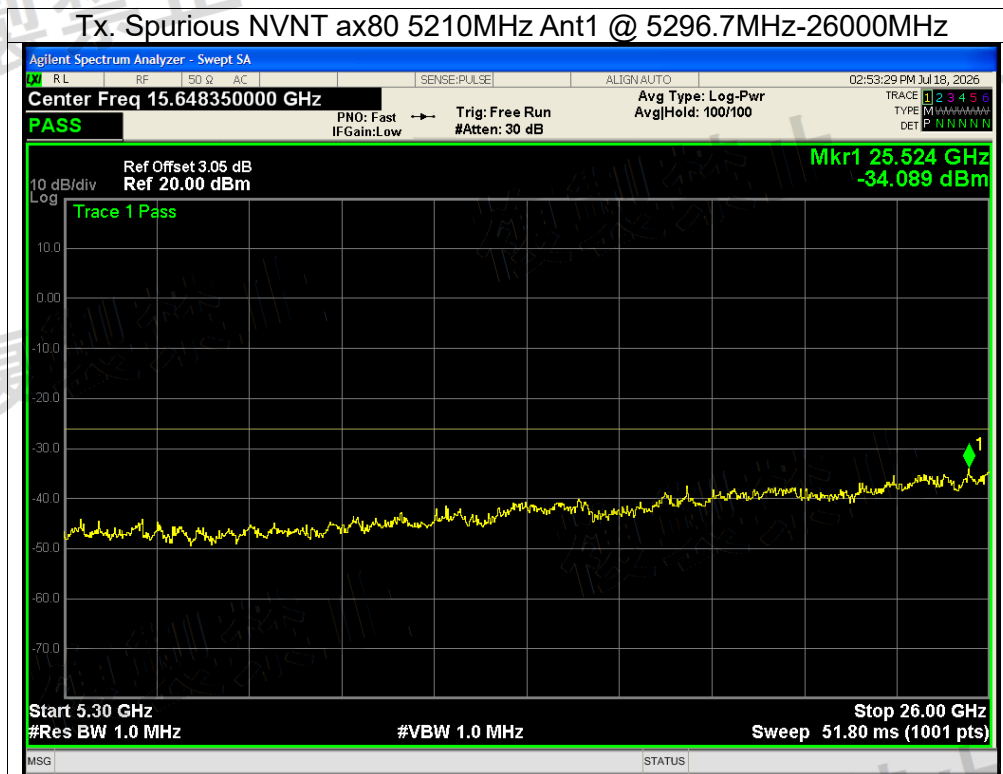


Tx. Spurious NVNT ax80 5210MHz Ant1 @ 5251MHz-5290MHz



Tx. Spurious NVNT ax80 5210MHz Ant1 @ 5290MHz-5296.7MHz







7. ADJACENT CHANNEL EMITTED POWER MEASUREMENT

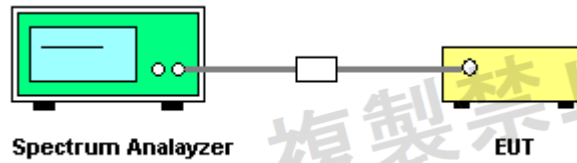
7.1 LIMIT

Item	LIMIT
Adjacent channel leakage power	$\leq -25\text{dBc}$ (within $\pm 10\text{MHz}$ band at $\pm 20\text{MHz}$ spacing) $\text{OBW} \leq 20\text{MHz}$
	$\leq -40\text{dBc}$ (within $\pm 10\text{MHz}$ band at $\pm 40\text{MHz}$ spacing) $\text{OBW} \leq 20\text{MHz}$
	$\leq -25\text{dBc}$ (within $\pm 20\text{MHz}$ band at $\pm 40\text{MHz}$ spacing) $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$
	$\leq -40\text{dBc}$ (within $\pm 20\text{MHz}$ band at $\pm 80\text{MHz}$ spacing) $20\text{MHz} < \text{OBW} \leq 40\text{MHz}$
	$\leq -25\text{dBc}$ (within $\pm 40\text{MHz}$ band at $\pm 80\text{MHz}$ spacing) $40\text{MHz} < \text{OBW} \leq 80\text{MHz}$

7.2 TEST PROCEDURES

1. EUT has the continuous reception mode and fixed only one channelize.
2. SA set RBW: 300KHz and VBW: 300KHz, Span 100MHz (BW=20MHz/200MHz(BW=40MHz), RMS Detector, trace Maximum Hold and use ACLR Option.
3. Frequency spacing and measuring bandwidth be specified in section 3.6.1.
4. Reporting the worst value

7.3 TEST SETUP



7.4 TEST DEVIATION

There is no deviation with the original standard.

7.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18,2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

Condition	Mode	Frequency (MHz)	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	-20	-42.55	-25	Pass
NVNT	a	5180	-40	-50.13	-40	Pass
NVNT	a	5180	20	-41.58	-25	Pass
NVNT	a	5180	40	-50.41	-40	Pass
NVNT	a	5200	-20	-43.01	-25	Pass
NVNT	a	5200	-40	-49.91	-40	Pass
NVNT	a	5200	20	-41.53	-25	Pass
NVNT	a	5200	40	-50.07	-40	Pass
NVNT	a	5240	-20	-43.31	-25	Pass
NVNT	a	5240	-40	-50.36	-40	Pass
NVNT	a	5240	20	-41.55	-25	Pass
NVNT	a	5240	40	-50.18	-40	Pass
NVNT	n20	5180	-20	-42.51	-25	Pass
NVNT	n20	5180	-40	-49.33	-40	Pass
NVNT	n20	5180	20	-41.5	-25	Pass
NVNT	n20	5180	40	-49.65	-40	Pass
NVNT	n20	5200	-20	-42.08	-25	Pass
NVNT	n20	5200	-40	-49.49	-40	Pass
NVNT	n20	5200	20	-40.19	-25	Pass
NVNT	n20	5200	40	-49.51	-40	Pass
NVNT	n20	5240	-20	-42.32	-25	Pass



NVNT	n20	5240	-40	-49.11	-40	Pass
NVNT	n20	5240	20	-41.41	-25	Pass
NVNT	n20	5240	40	-49.11	-40	Pass
NVNT	n40	5190	-40	-41.89	-25	Pass
NVNT	n40	5190	-80	-45.05	-40	Pass
NVNT	n40	5190	40	-41.8	-25	Pass
NVNT	n40	5190	80	-45.51	-40	Pass
NVNT	n40	5230	-40	-42.08	-25	Pass
NVNT	n40	5230	-80	-45.37	-40	Pass
NVNT	n40	5230	40	-41.46	-25	Pass
NVNT	n40	5230	80	-45.5	-40	Pass
NVNT	ac20	5180	-20	-41.29	-25	Pass
NVNT	ac20	5180	-40	-48.57	-40	Pass
NVNT	ac20	5180	20	-41.12	-25	Pass
NVNT	ac20	5180	40	-48.83	-40	Pass
NVNT	ac20	5200	-20	-41.31	-25	Pass
NVNT	ac20	5200	-40	-49.38	-40	Pass
NVNT	ac20	5200	20	-41.01	-25	Pass
NVNT	ac20	5200	40	-49.43	-40	Pass
NVNT	ac20	5240	-20	-41.62	-25	Pass
NVNT	ac20	5240	-40	-49.24	-40	Pass
NVNT	ac20	5240	20	-41.31	-25	Pass
NVNT	ac20	5240	40	-49.01	-40	Pass
NVNT	ac40	5190	-40	-41.74	-25	Pass
NVNT	ac40	5190	-80	-44.86	-40	Pass
NVNT	ac40	5190	40	-41.25	-25	Pass
NVNT	ac40	5190	80	-45.24	-40	Pass
NVNT	ac40	5230	-40	-41.98	-25	Pass
NVNT	ac40	5230	-80	-45.63	-40	Pass
NVNT	ac40	5230	40	-41.06	-25	Pass
NVNT	ac40	5230	80	-45.74	-40	Pass
NVNT	ac80	5210	-80	-39.39	-25	Pass
NVNT	ac80	5210	-160	-41.03	-40	Pass
NVNT	ac80	5210	80	-38.17	-25	Pass
NVNT	ac80	5210	160	-41.22	-40	Pass
NVNT	ax20	5180	-20	-30.52	-25	Pass
NVNT	ax20	5180	-40	-49.22	-40	Pass
NVNT	ax20	5180	20	-28.26	-25	Pass
NVNT	ax20	5180	40	-49.29	-40	Pass

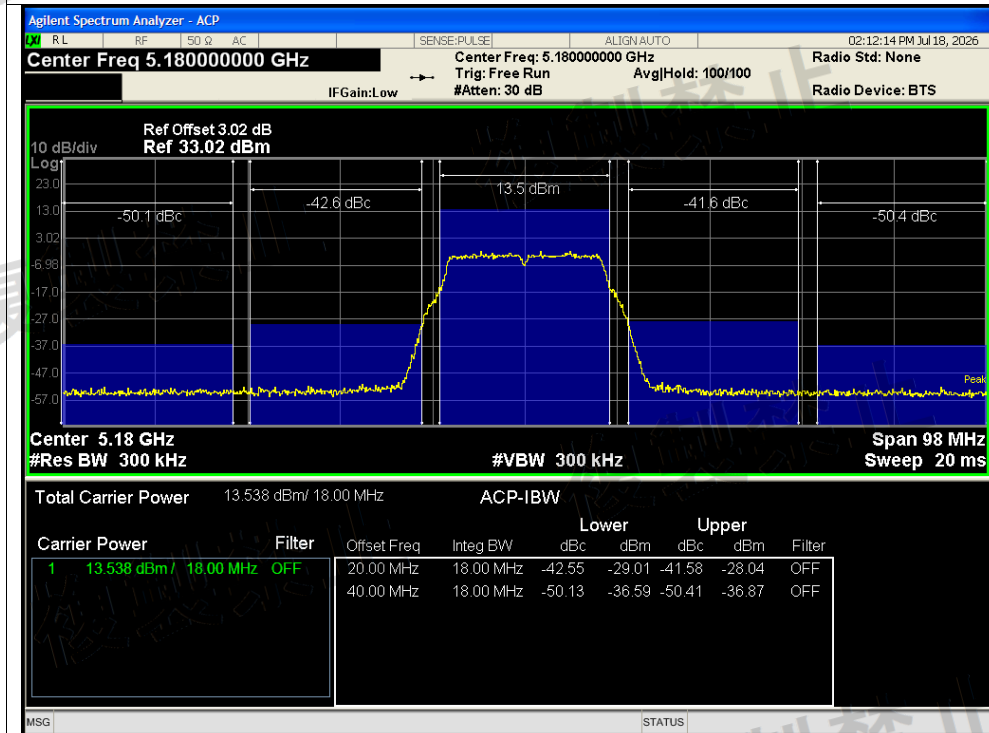


NVNT	ax20	5200	-20	-29.81	-25	Pass
NVNT	ax20	5200	-40	-49.52	-40	Pass
NVNT	ax20	5200	20	-28.97	-25	Pass
NVNT	ax20	5200	40	-49.67	-40	Pass
NVNT	ax20	5240	-20	-29.68	-25	Pass
NVNT	ax20	5240	-40	-49.69	-40	Pass
NVNT	ax20	5240	20	-29.78	-25	Pass
NVNT	ax20	5240	40	-49.51	-40	Pass
NVNT	ax40	5190	-40	-40.8	-25	Pass
NVNT	ax40	5190	-80	-46.12	-40	Pass
NVNT	ax40	5190	40	-39.56	-25	Pass
NVNT	ax40	5190	80	-46.56	-40	Pass
NVNT	ax40	5230	-40	-40.45	-25	Pass
NVNT	ax40	5230	-80	-46.47	-40	Pass
NVNT	ax40	5230	40	-39.48	-25	Pass
NVNT	ax40	5230	80	-46.49	-40	Pass
NVNT	ax80	5210	-80	-39.78	-25	Pass
NVNT	ax80	5210	-160	-42.68	-40	Pass
NVNT	ax80	5210	80	-38.34	-25	Pass
NVNT	ax80	5210	160	-42.67	-40	Pass

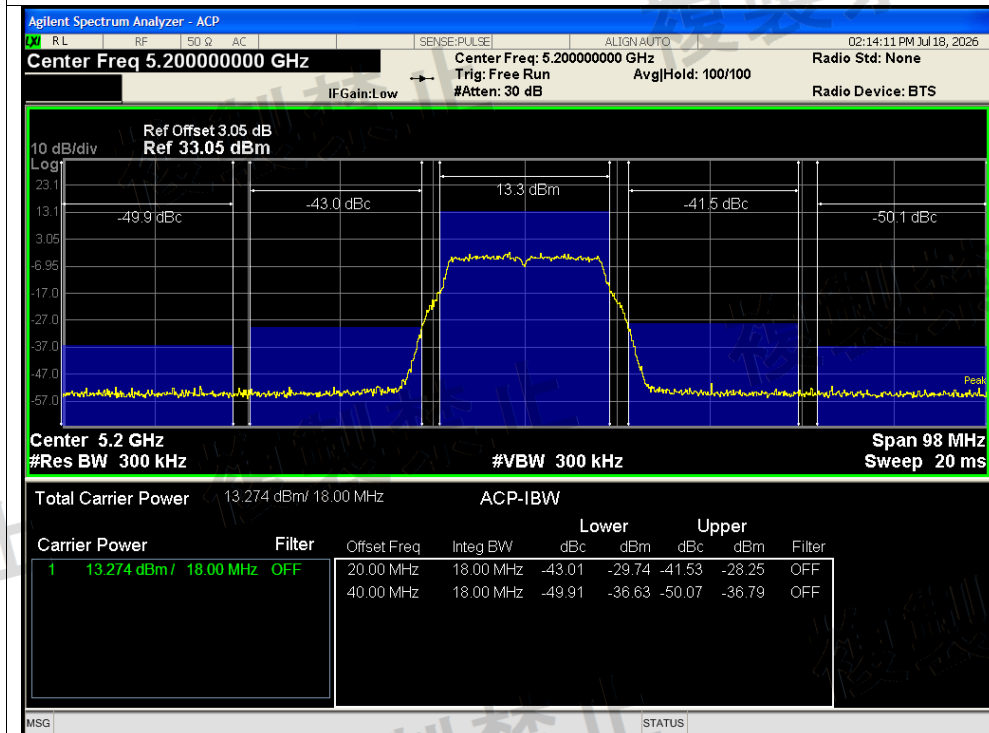


Test Graphs

ACEP NVNT a 5180MHz Ant1

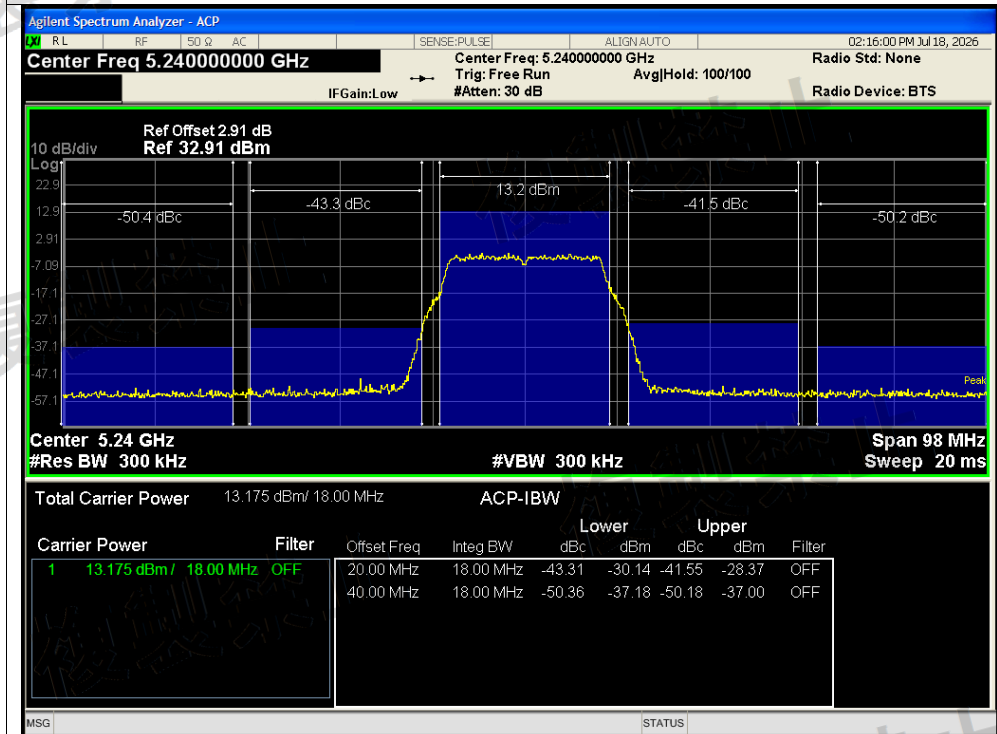


ACEP NVNT a 5200MHz Ant1

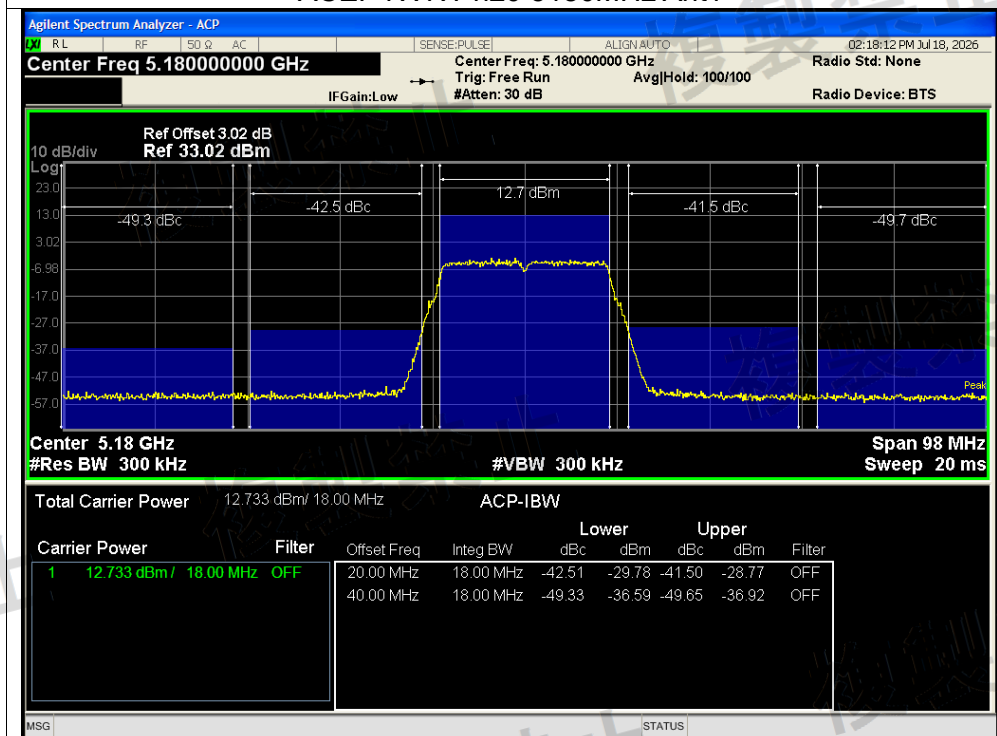




ACEP NVNT a 5240MHz Ant1

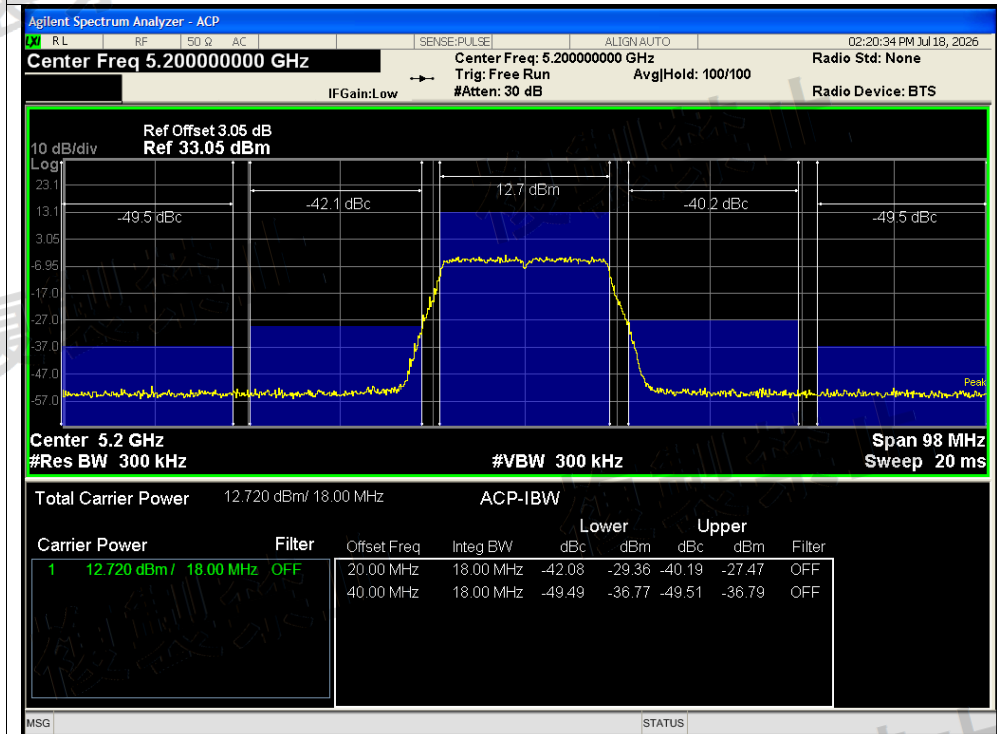


ACEP NVNT n20 5180MHz Ant1

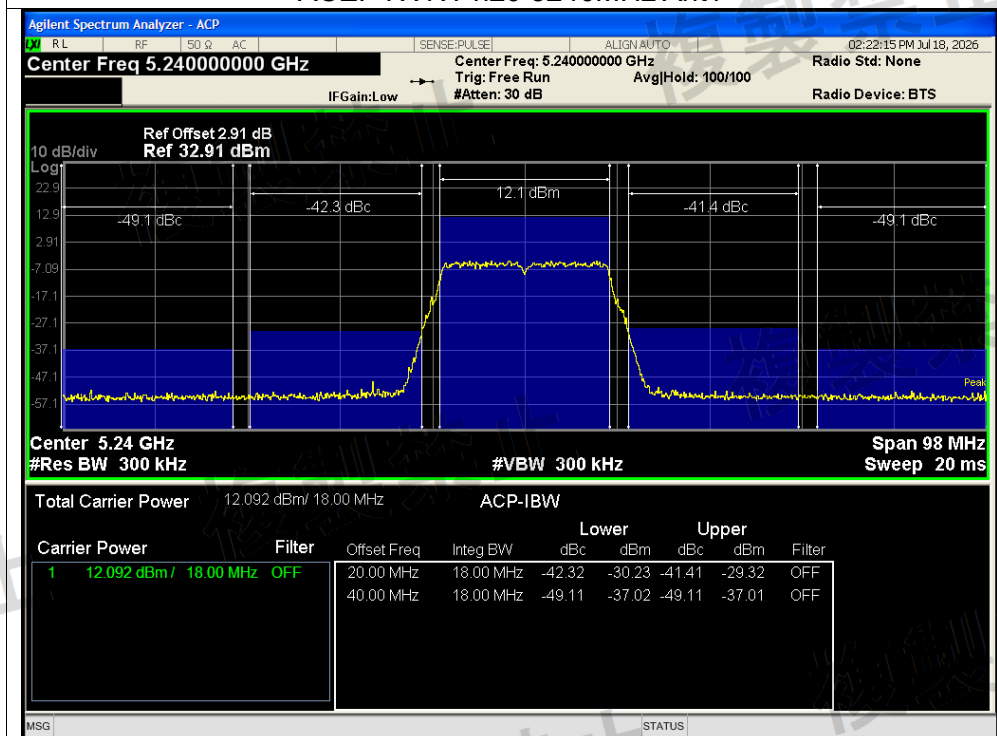




ACEP NVNT n20 5200MHz Ant1

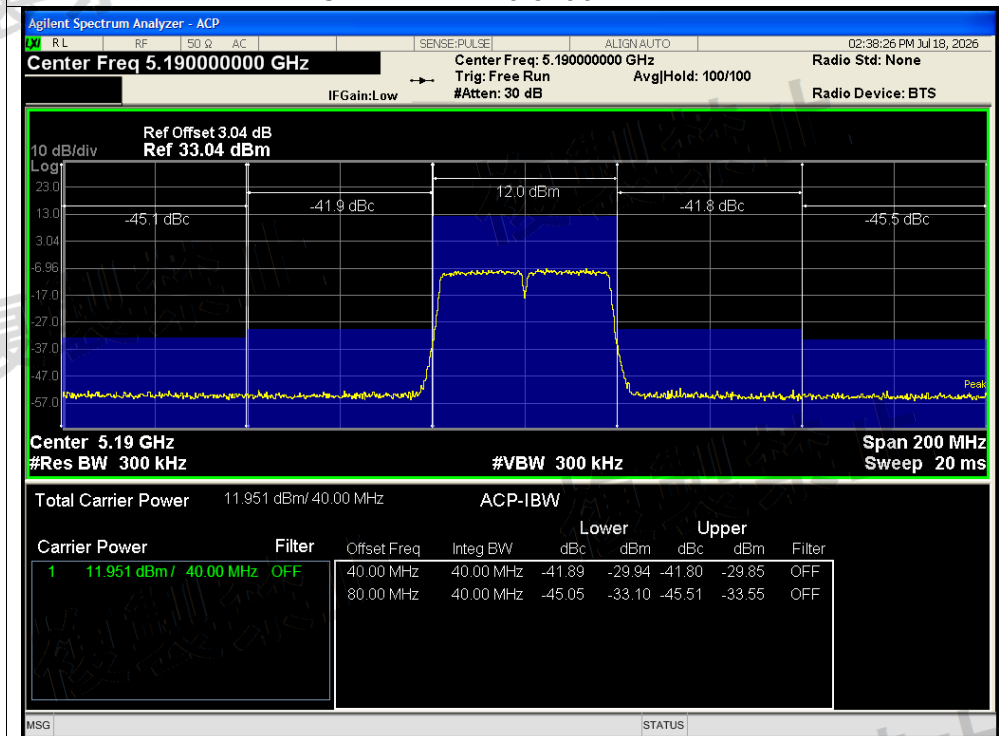


ACEP NVNT n20 5240MHz Ant1

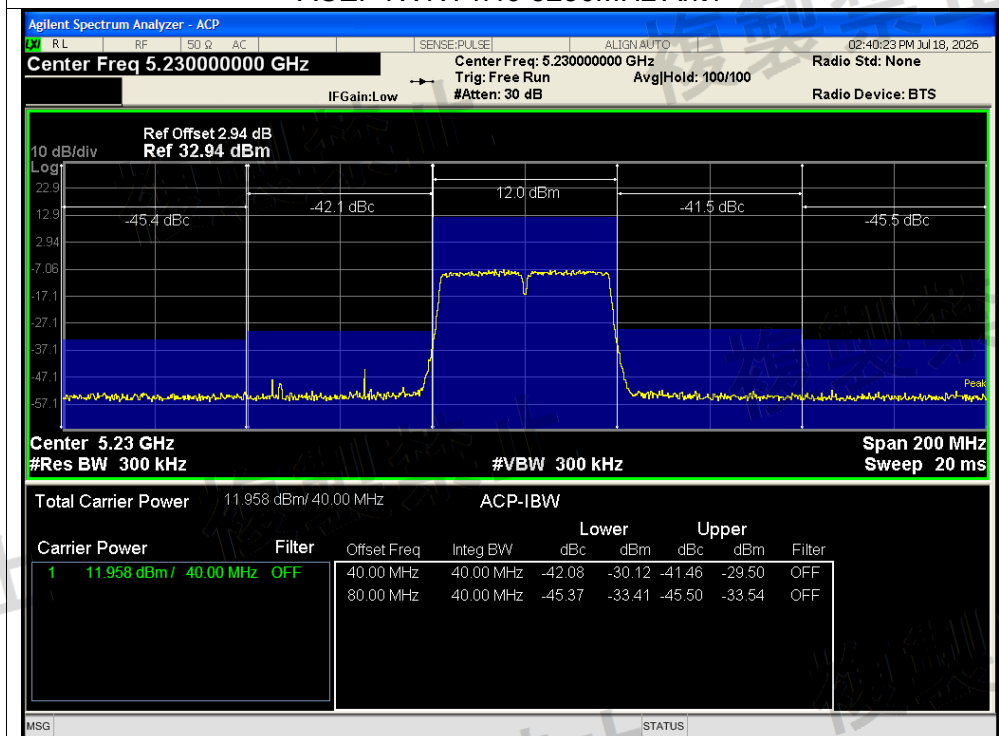




ACEP NVNT n40 5190MHz Ant1

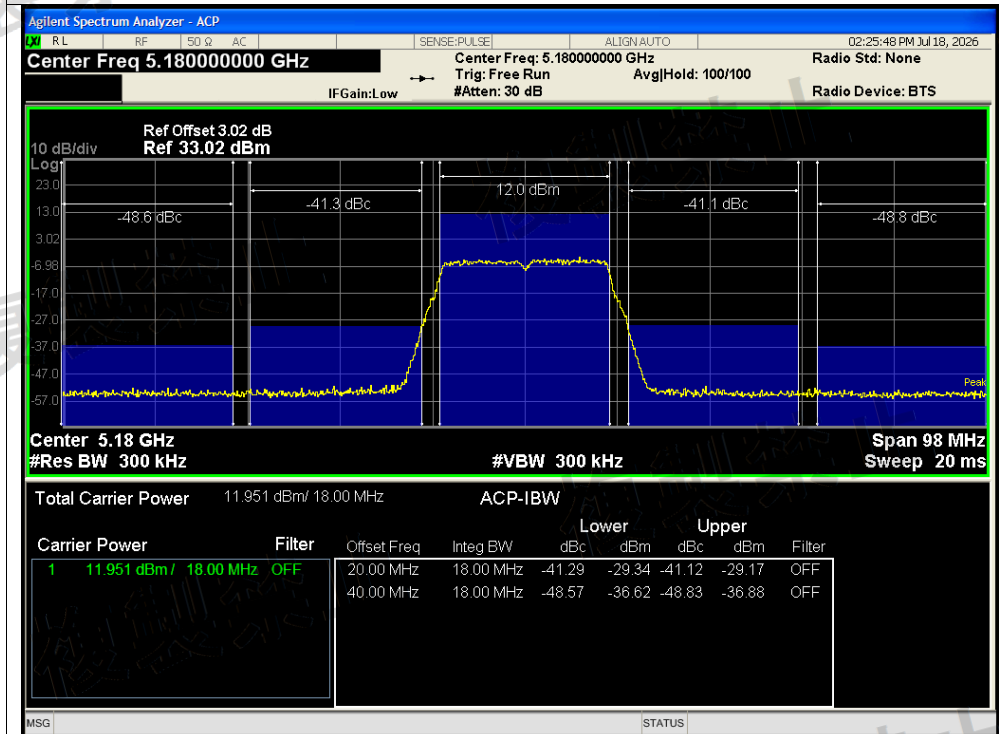


ACEP NVNT n40 5230MHz Ant1

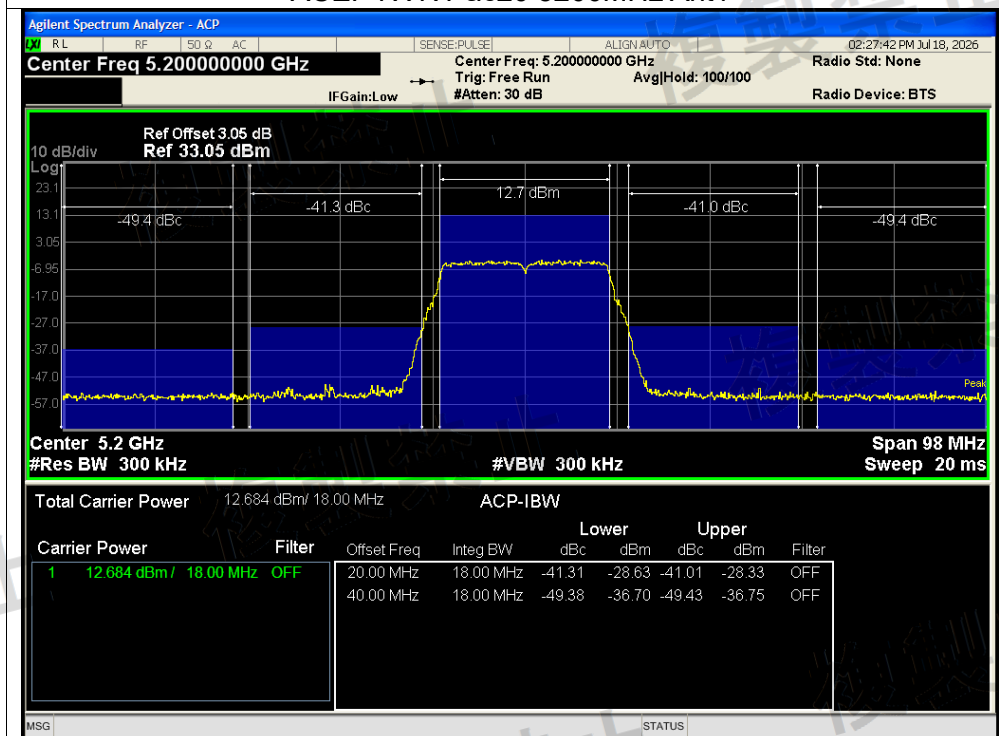




ACEP NVNT ac20 5180MHz Ant1

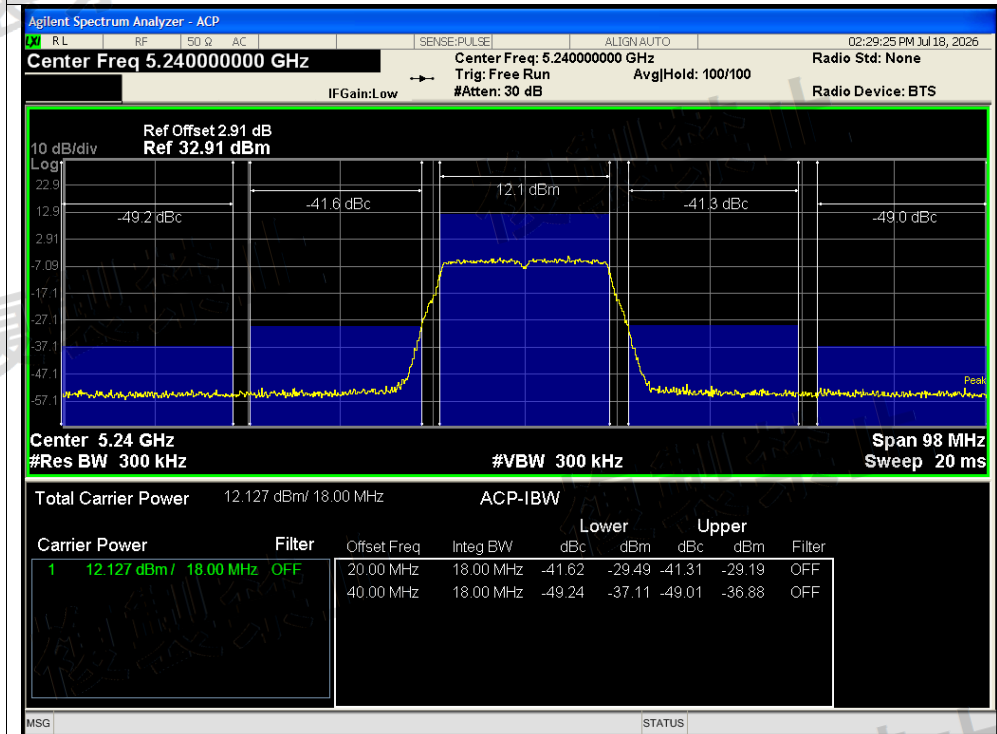


ACEP NVNT ac20 5200MHz Ant1

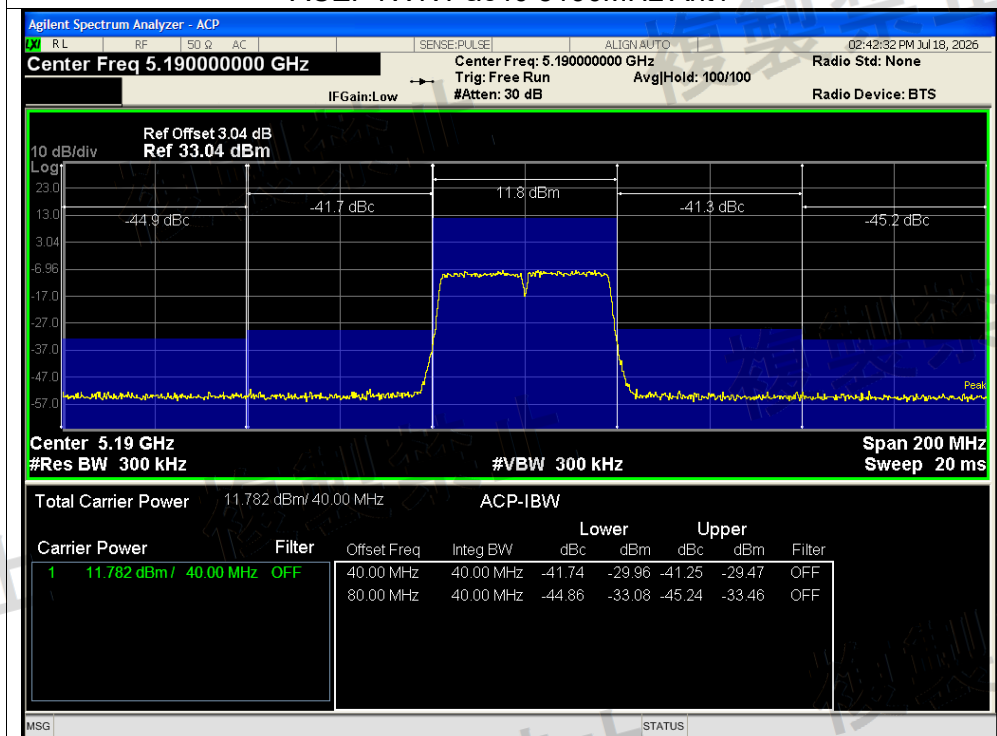




ACEP NVNT ac20 5240MHz Ant1

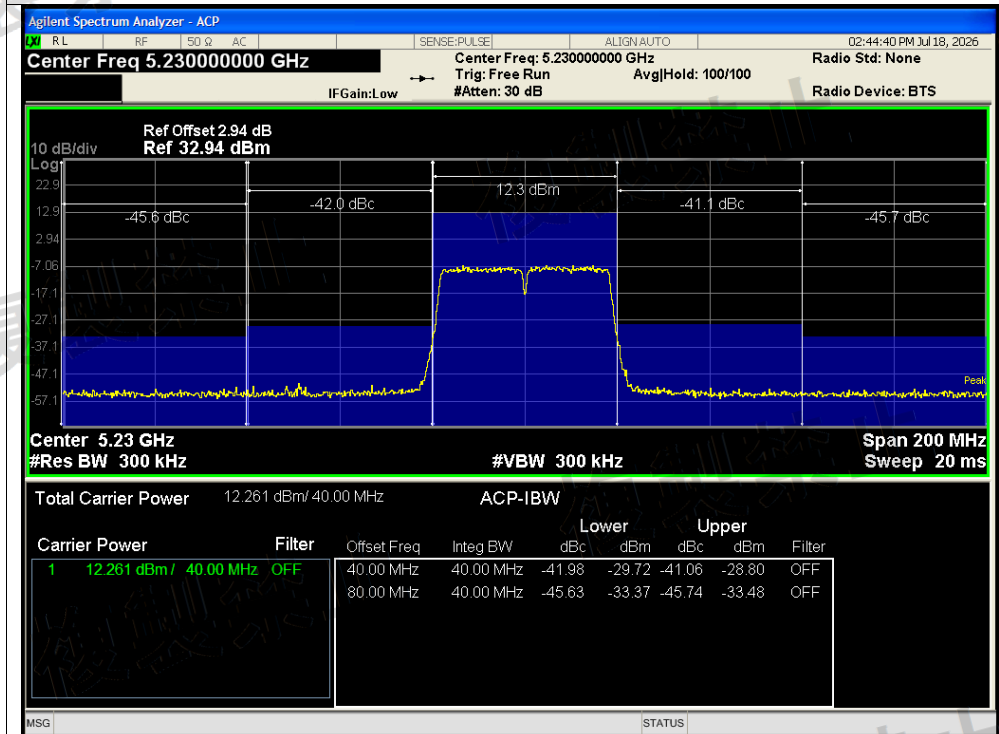


ACEP NVNT ac40 5190MHz Ant1

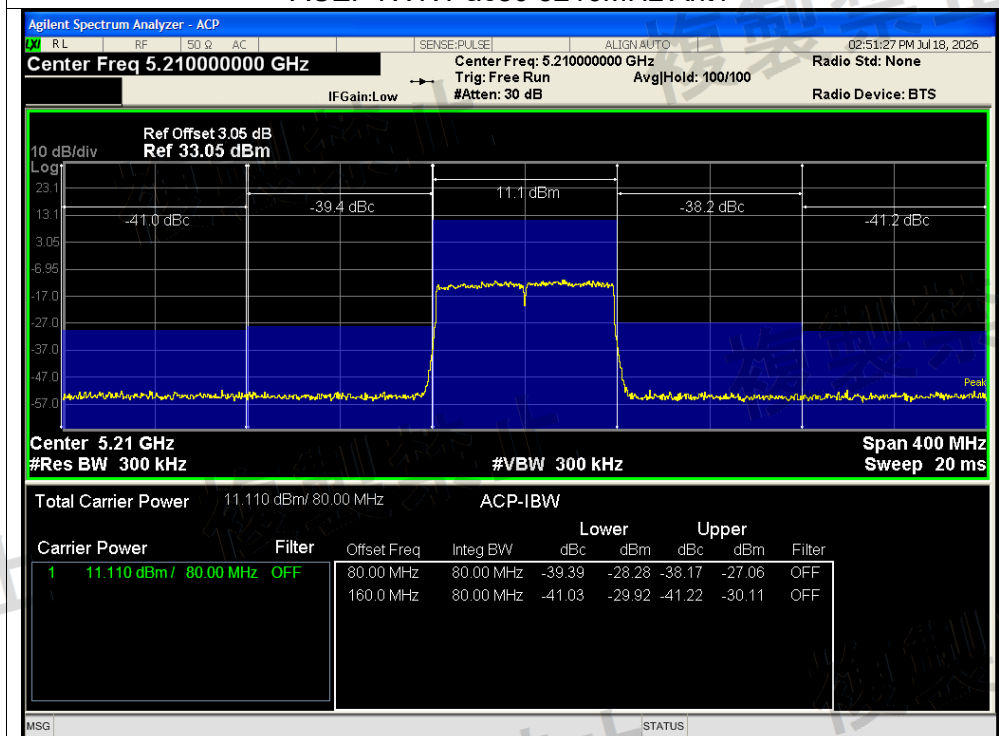




ACEP NVNT ac40 5230MHz Ant1

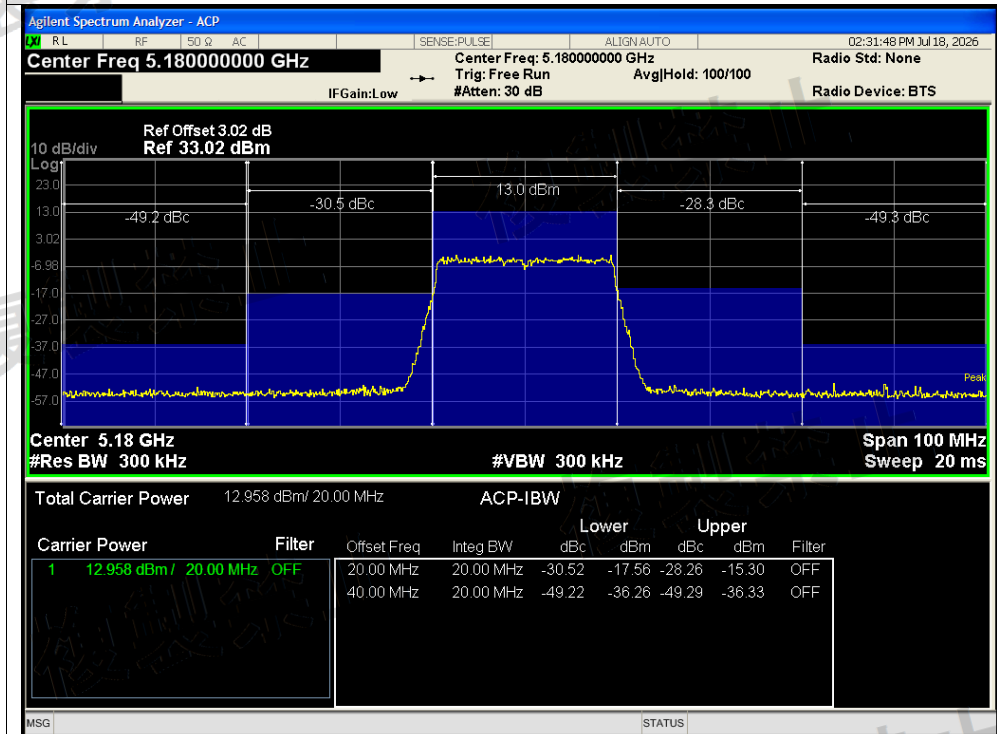


ACEP NVNT ac80 5210MHz Ant1

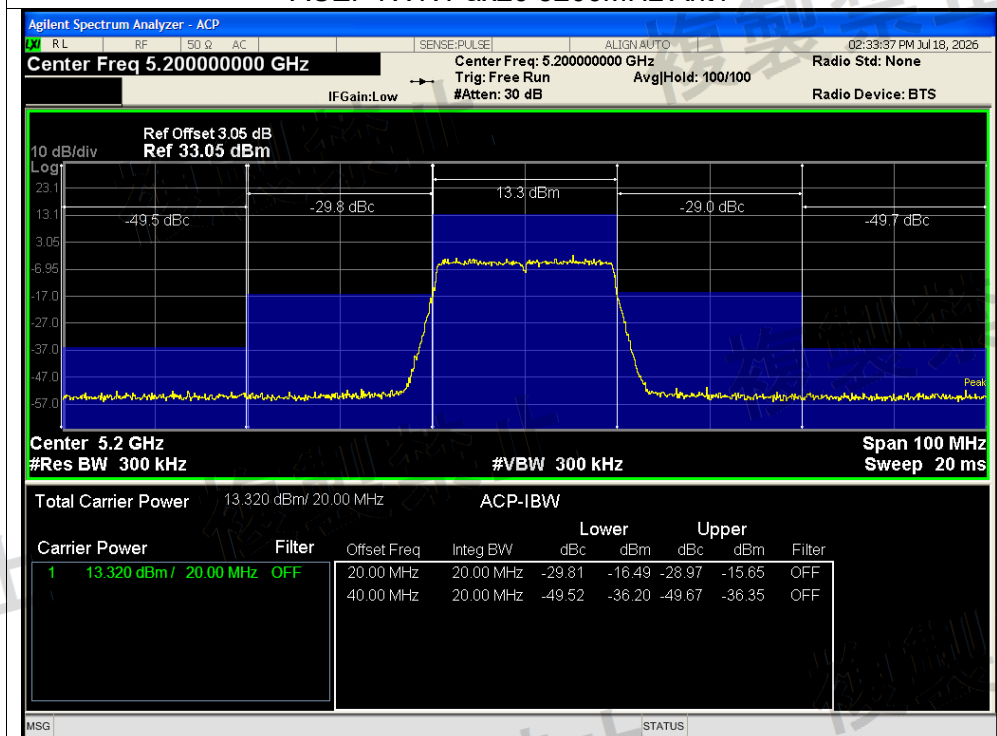




ACEP NVNT ax20 5180MHz Ant1

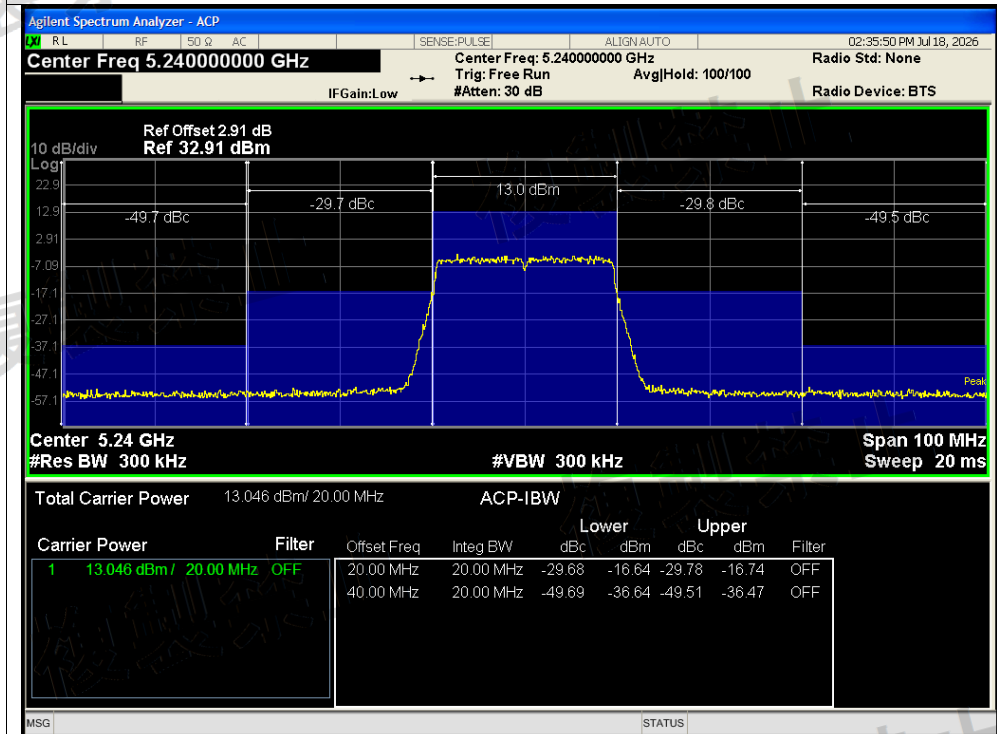


ACEP NVNT ax20 5200MHz Ant1

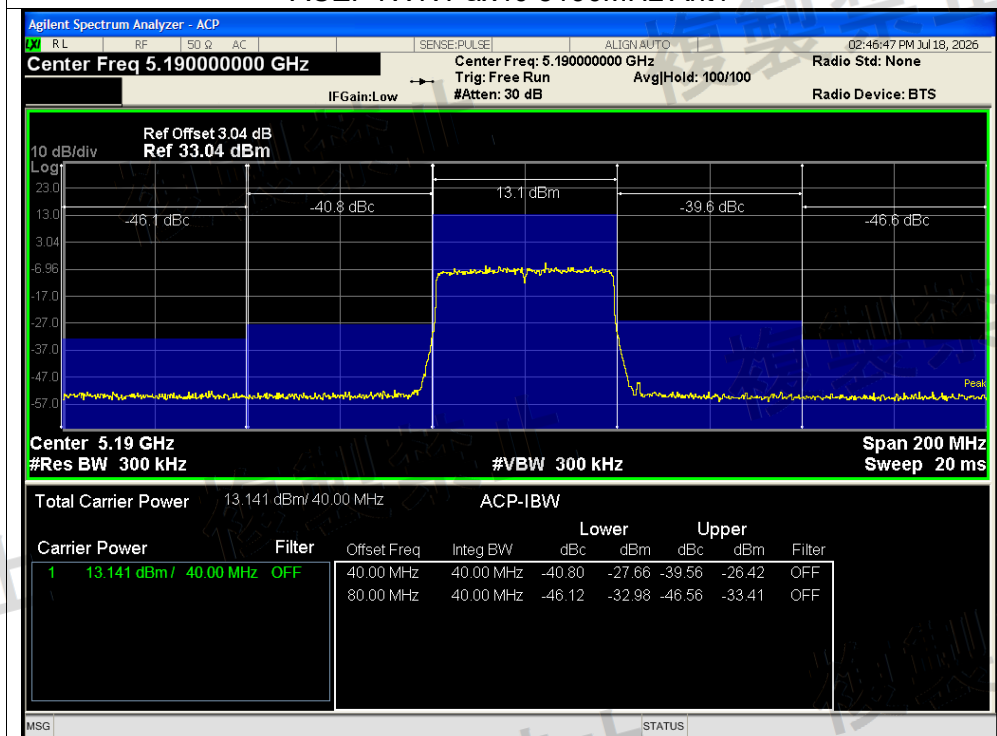




ACEP NVNT ax20 5240MHz Ant1

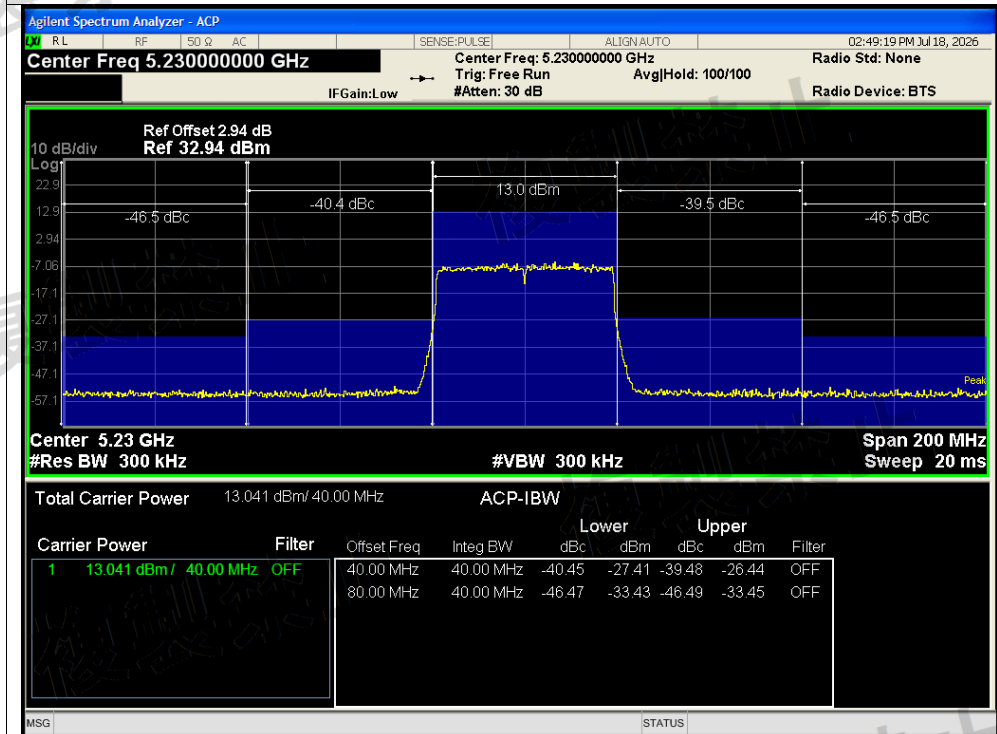


ACEP NVNT ax40 5190MHz Ant1

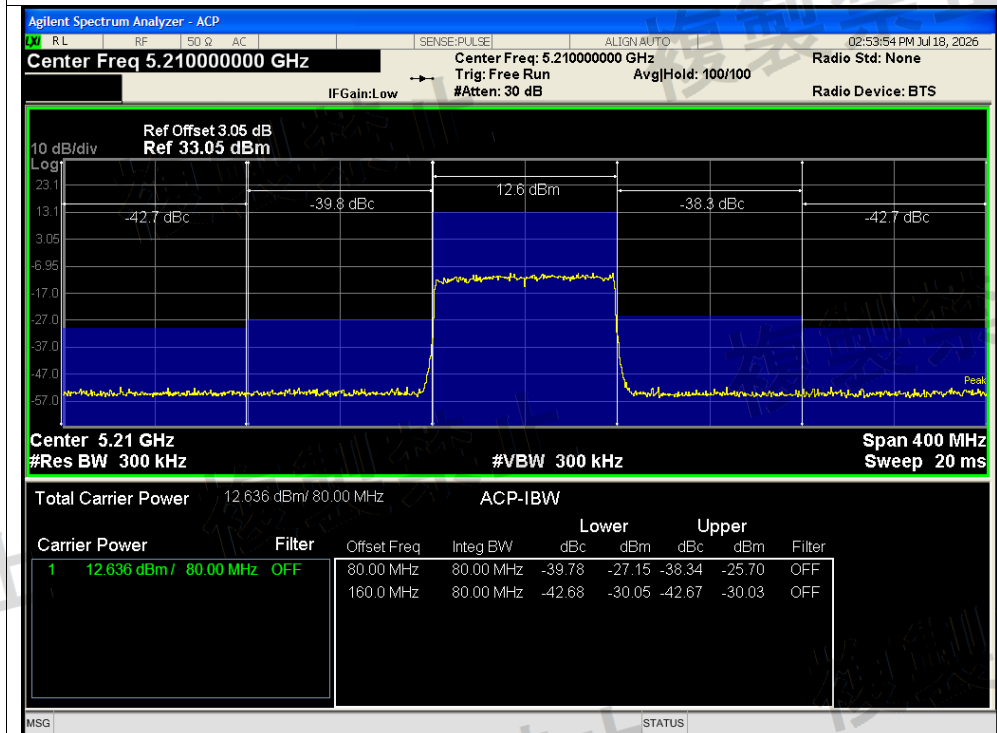




ACEP NVNT ax40 5230MHz Ant1



ACEP NVNT ax80 5210MHz Ant1



8. RF OUTPUT POWER / TOLERANCE

Band	Item	20MHz system		40MHz system	80MHz system	160MHz system
W52&W53	Antenna Power	DSSS,etc	OFDM	OFDM		
		10mW/MHz(DSSS) 10mW(other)	10mW/MHz	5mW/MHz	2.5mW/MHz	1.25mW/MHz
	Antenna Power Error	+20%, -80% (Base on manufacturer declare antenna power density)				
	E.I.R.P.(W52)	10mW/MHz		5mW/MHz	2.5mW/MHz	1.25mW/MHz
	E.I.R.P.(W53)	10mW/MHz With TPC 5mW/MHz Without TPC		5mW/MHz With TPC 2.5mW/MHz Without TPC	2.5mW/MHz With TPC 1.25mW/MHz Without TPC	1.25mW/MHz With TPC 0.625mW/MHz Without TPC
W56	Antenna Power	10mW/MHz(DSSS) 10mW(other)	10mW/MHz	5mW/MHz	2.5mW/MHz	1.25mW/MHz
	Antenna Power Error	+50%, -50% (Base on manufacturer declare antenna power density)				
	E.I.R.P.	50mW/MHz With TPC 25mW/MHz Without TPC		25mW/MHz With TPC 12.5mW/MHz Without TPC	12.5mW/MHz With TPC 6.25mW/MHz Without TPC	6.25mW/MHz With TPC 3.125mW/MHz Without TPC

8.1 TEST DEVIATION

There is no deviation with the original standard.

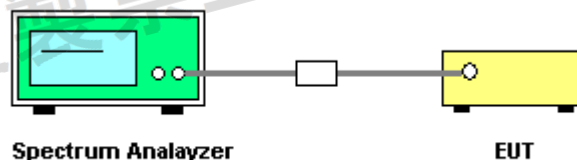
8.2 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

8.3 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

8.4 TEST SETUP



The test procedure contained in this option 1 shall be as follows:

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 3 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

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

Step 3:

Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Sweep time: 1 minute.
- Detector: Average (see note).
- Trace Mode: Max Hold.



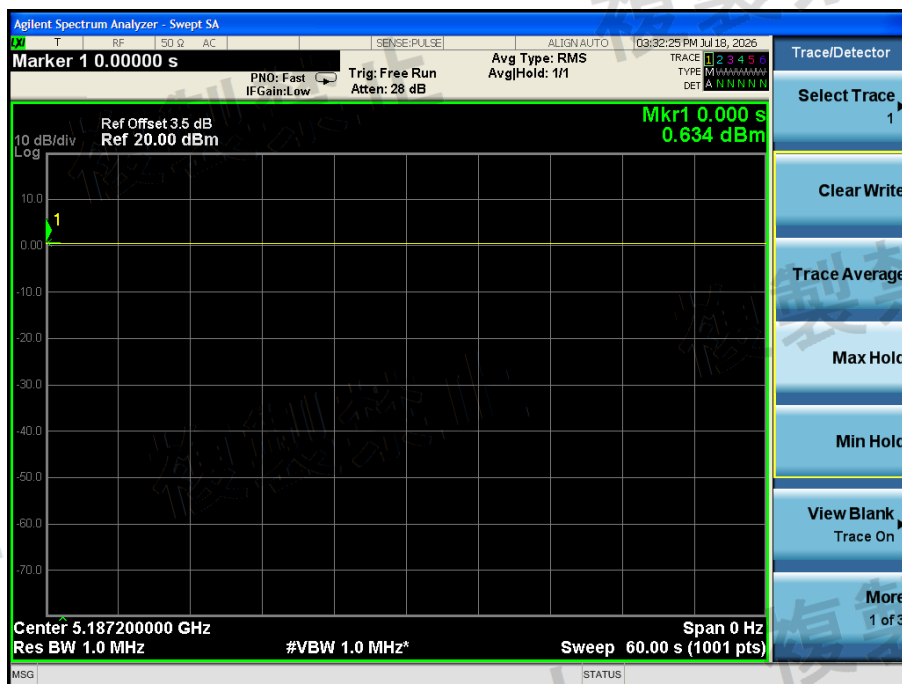
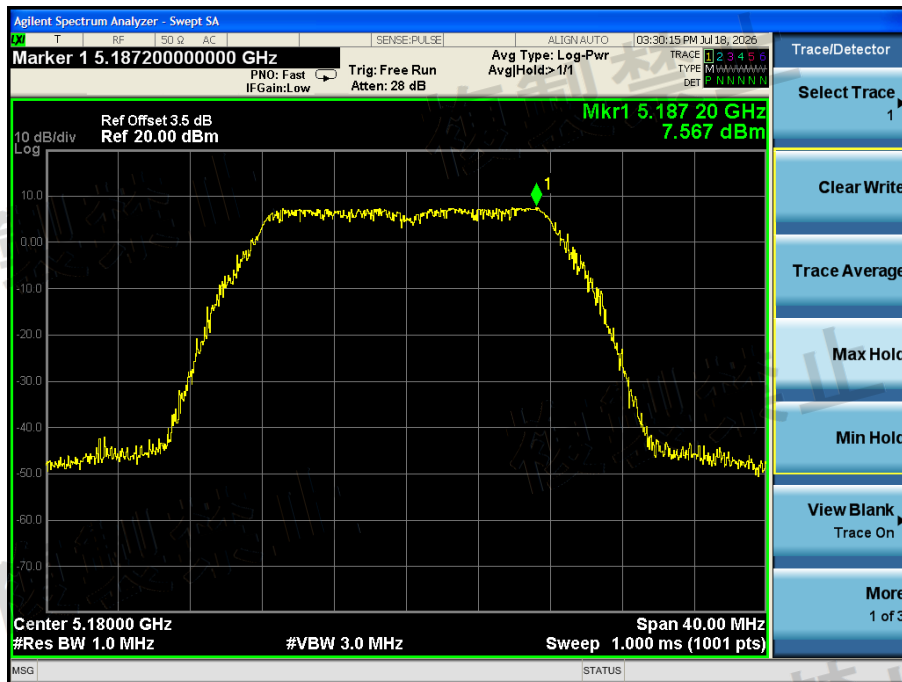
8.5 TEST RESULT

EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18,2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

Mode	Freq (MHz)	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Lower Limit (%)	Verdict
a	5180	0.634	1.157	2.0	-42.15	20	-80	Pass
a	5200	-1.530	0.703	2.0	-64.85	20	-80	Pass
a	5240	0.696	1.174	2.0	-41.30	20	-80	Pass
N20	5180	-0.833	0.825	2.0	-58.75	20	-80	Pass
N20	5200	-0.384	0.915	2.0	-54.25	20	-80	Pass
N20	5240	0.183	1.043	2.0	-47.85	20	-80	Pass
ac20	5180	-0.473	0.897	2.0	-55.15	20	-80	Pass
ac20	5200	-0.215	0.952	2.0	-52.40	20	-80	Pass
ac20	5240	0.636	1.158	2.0	-42.10	20	-80	Pass
ax20	5180	-1.576	0.696	2.0	-65.20	20	-80	Pass
ax20	5200	-0.299	0.933	2.0	-53.35	20	-80	Pass
ax20	5240	-0.082	0.981	2.0	-50.95	20	-80	Pass
N40	5190	-3.838	0.413	1.0	-58.70	20	-80	Pass
N40	5230	-2.826	0.522	1.0	-47.80	20	-80	Pass
ac40	5190	-3.127	0.487	1.0	-51.30	20	-80	Pass
ac40	5230	-2.416	0.573	1.0	-42.70	20	-80	Pass
ax40	5190	-4.046	0.394	1.0	-60.60	20	-80	Pass
ax40	5230	-3.245	0.474	1.0	-52.60	20	-80	Pass
ac80	5210	-6.148	0.243	0.5	-51.40	20	-80	Pass
ax80	5210	-6.400	0.229	0.5	-54.20	20	-80	Pass

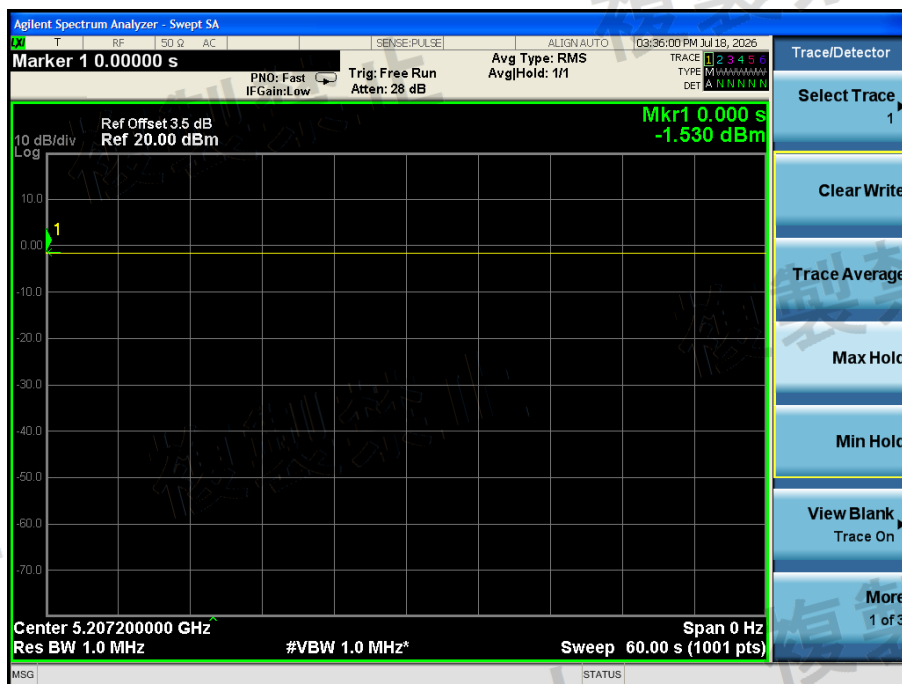
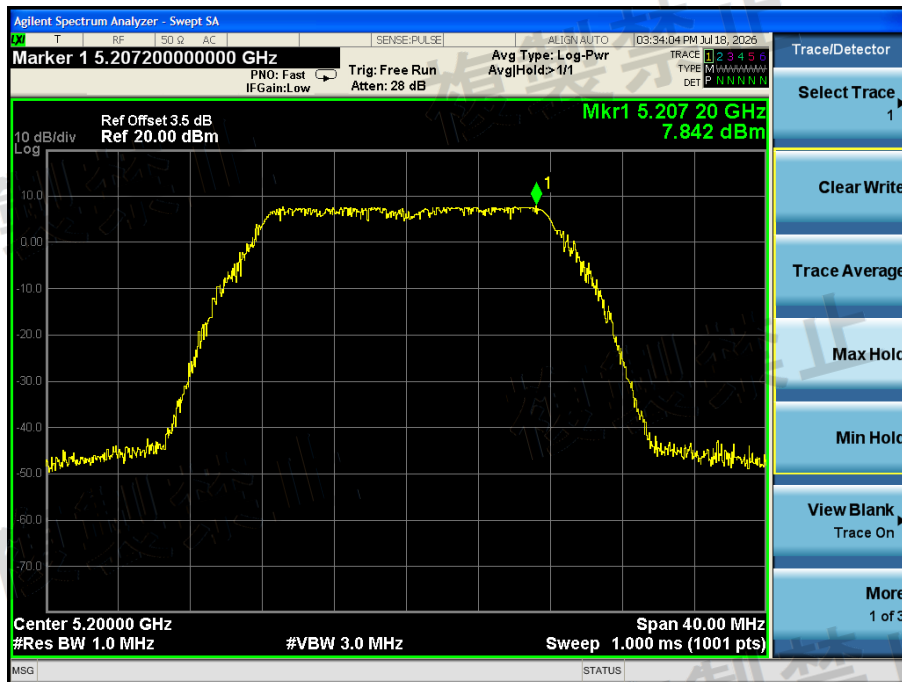


802.11a (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



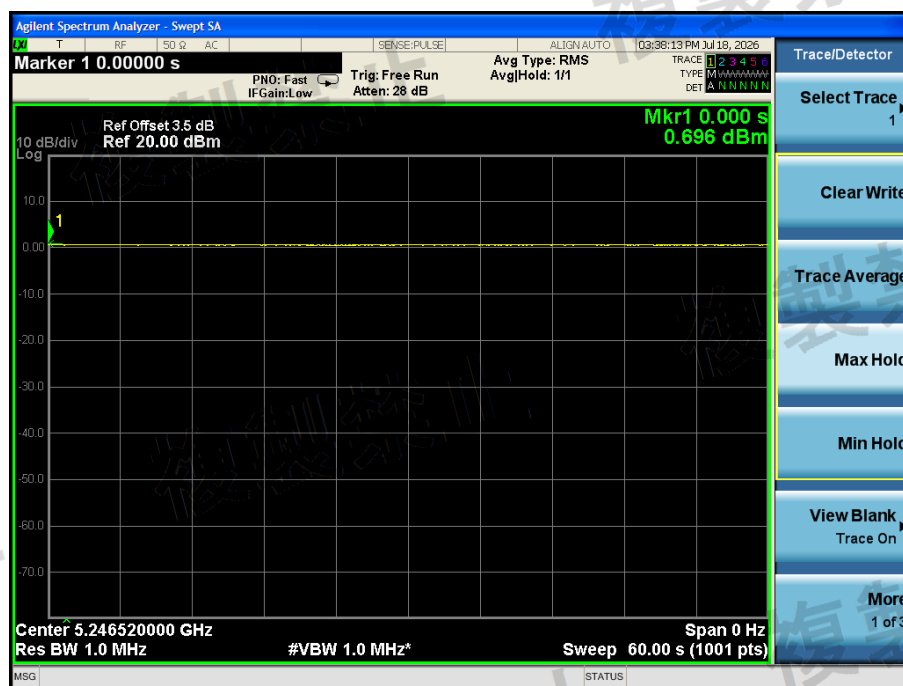
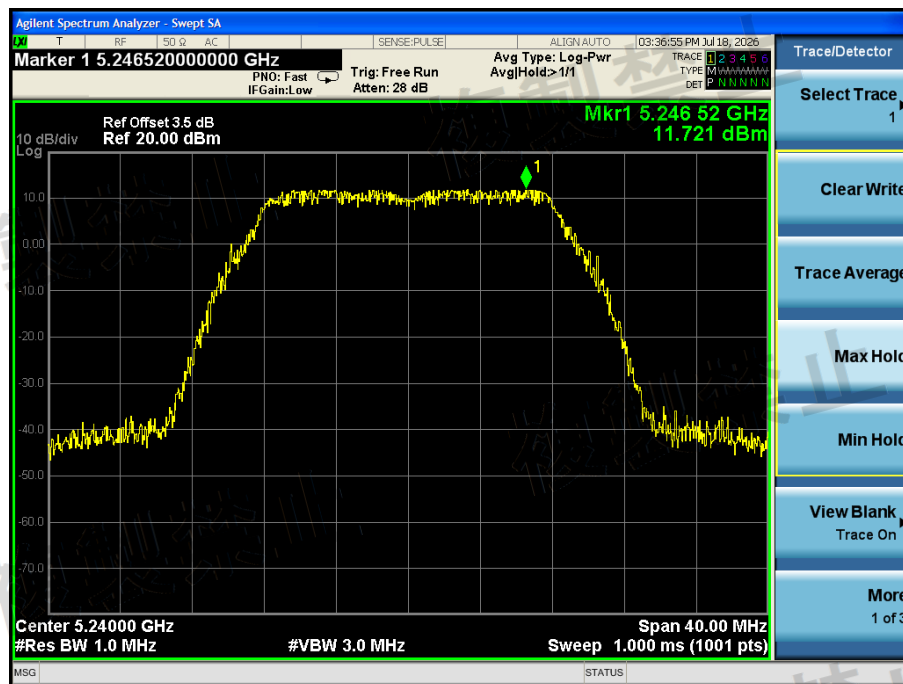


802.11a (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



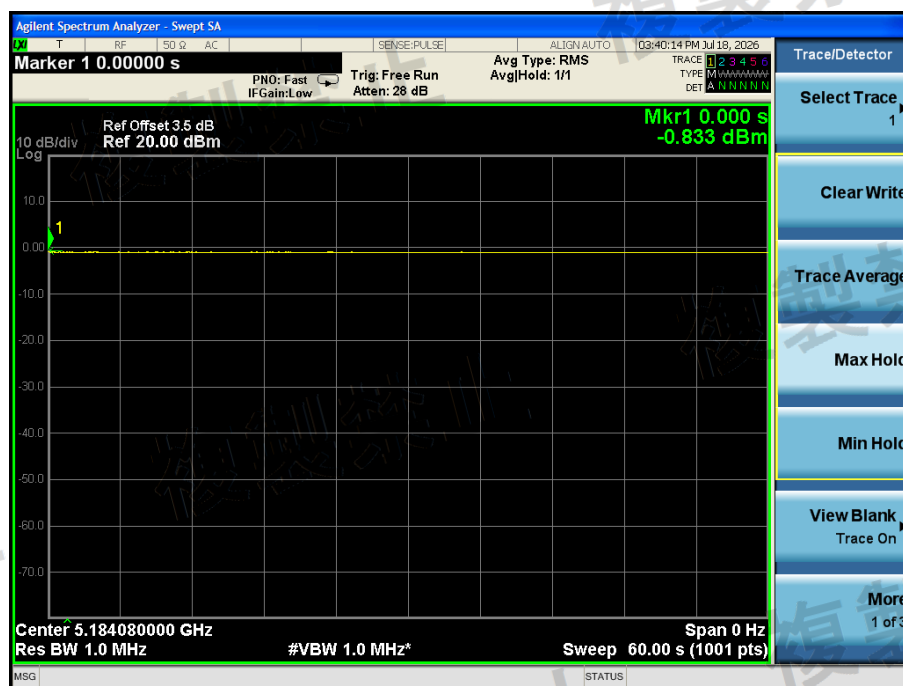
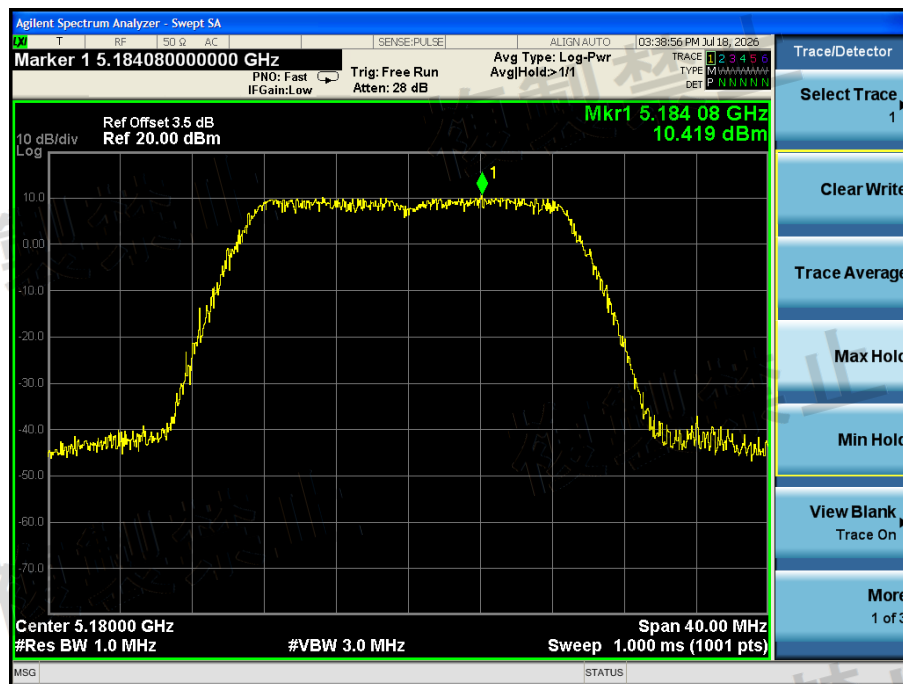


802.11a (5.15GHz-5.25GHz)
The Highest Channel 48: 5240MHz



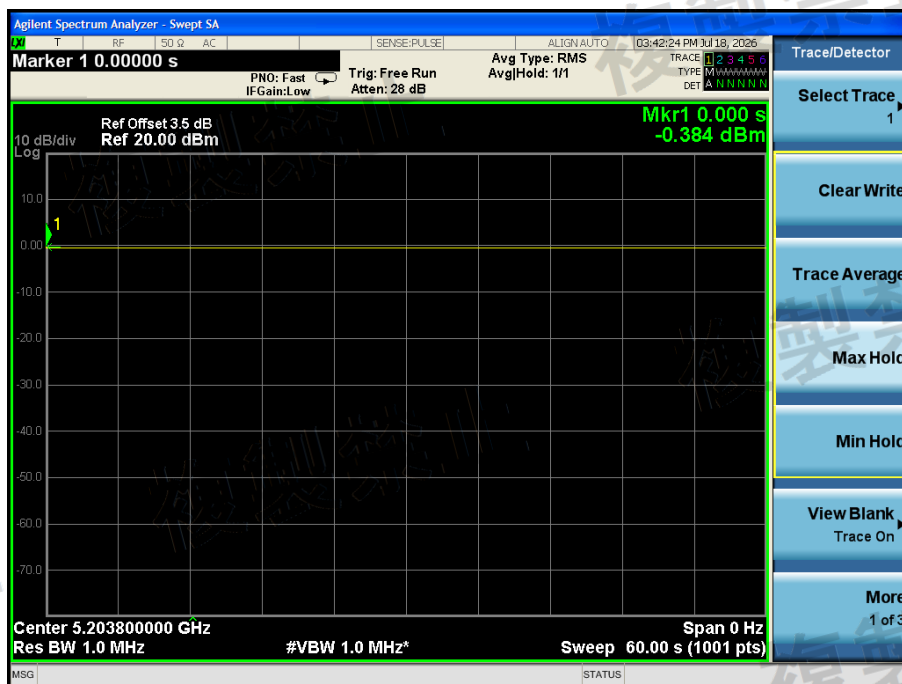
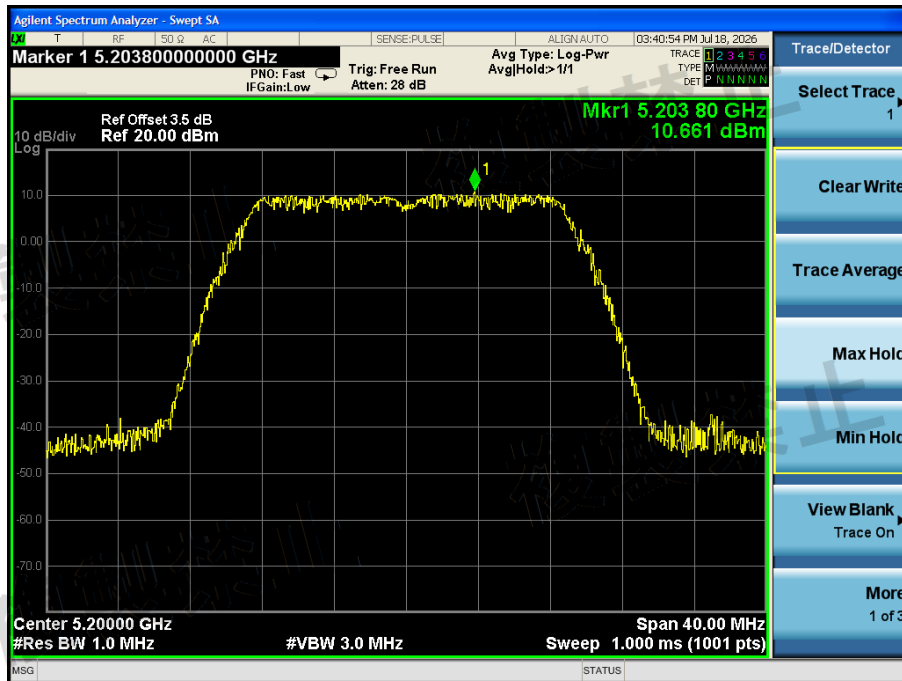


802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



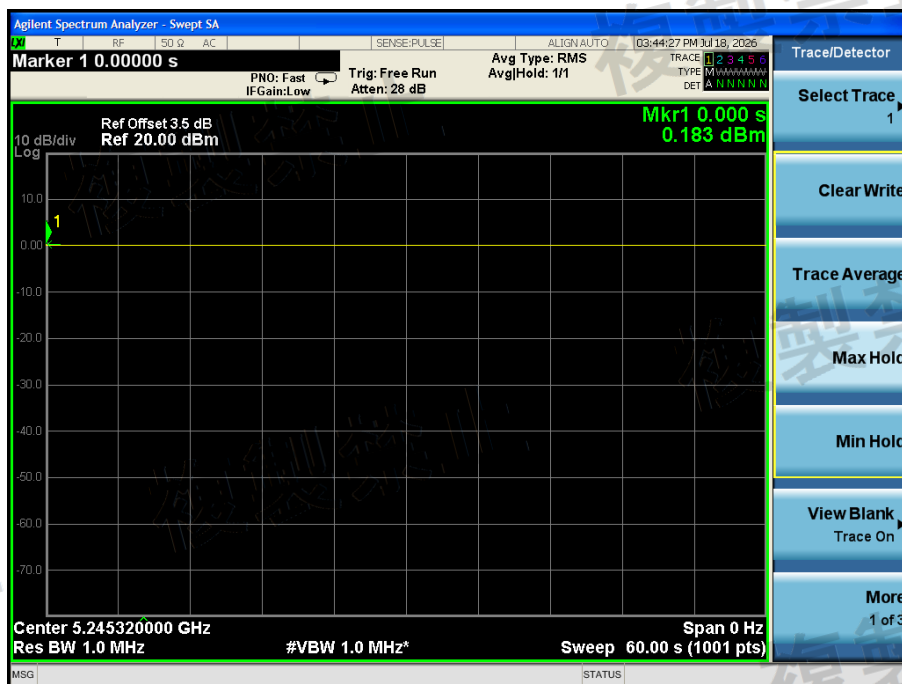
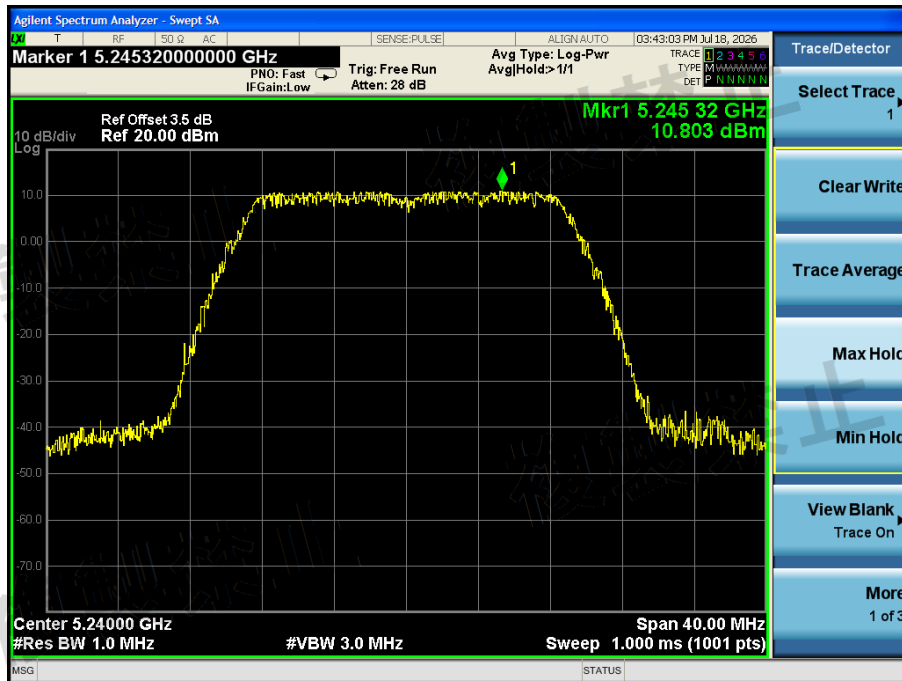


802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



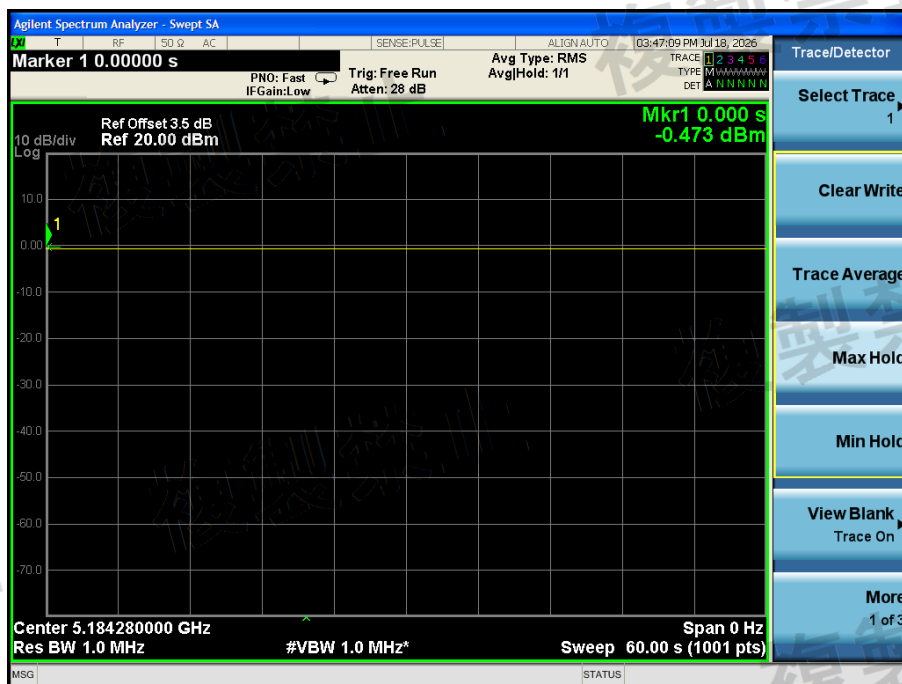
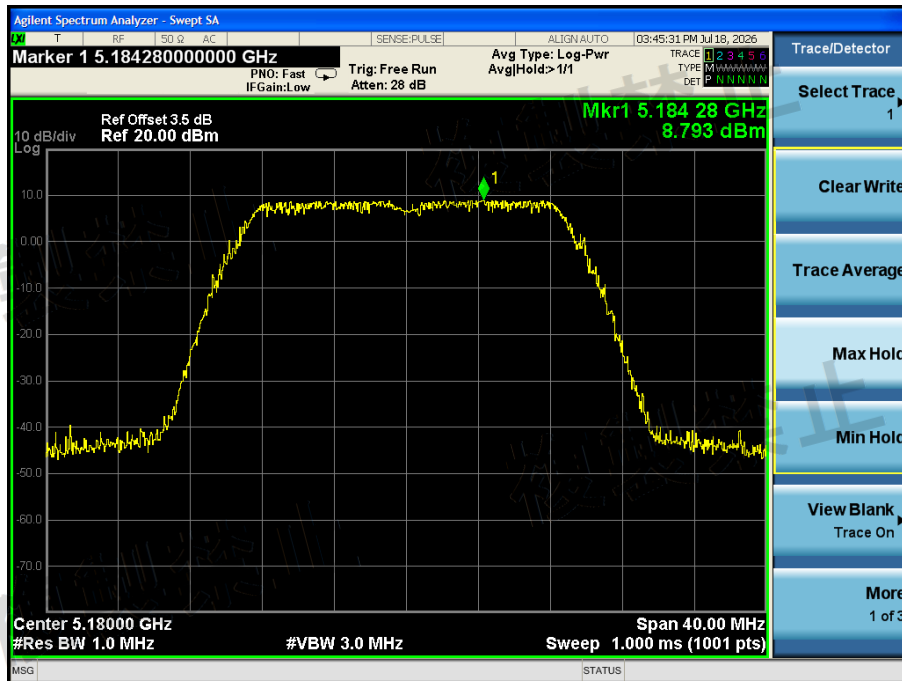


802.11n(20M) (5.15GHz-5.25GHz)
The Highest Channel 48: 5240MHz



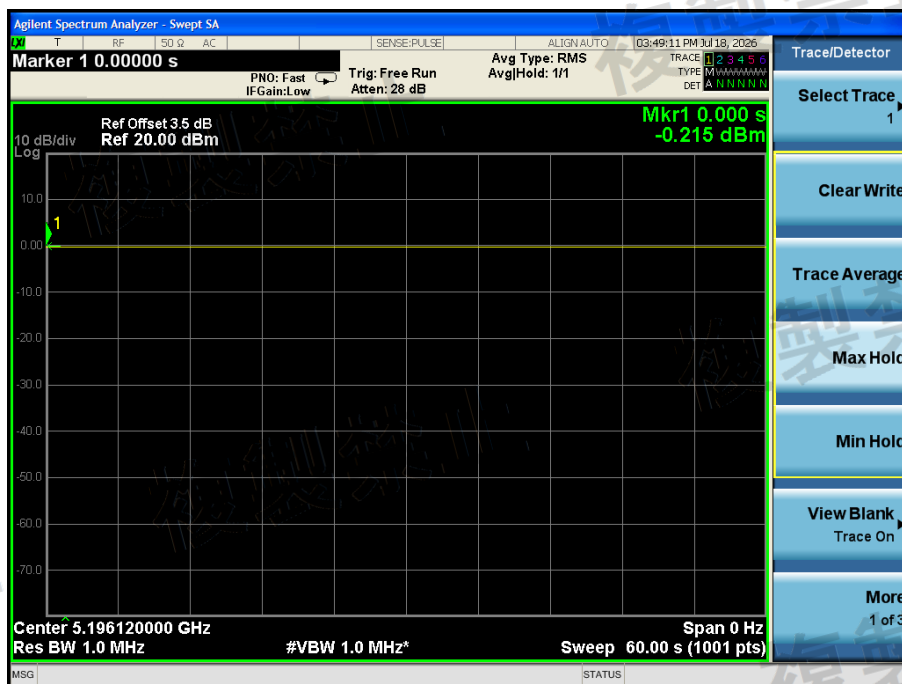
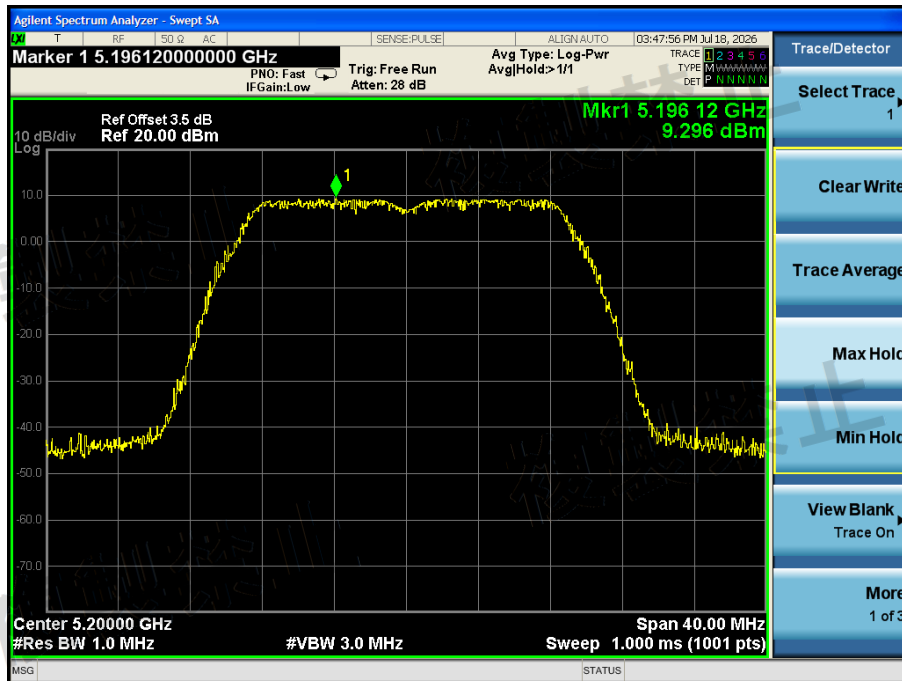


802.11ac (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



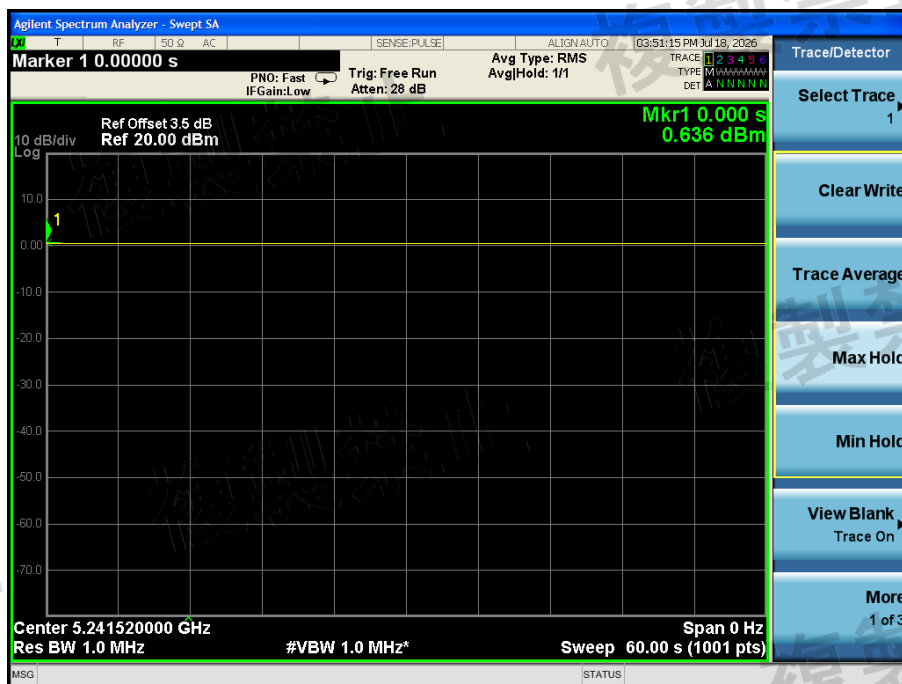
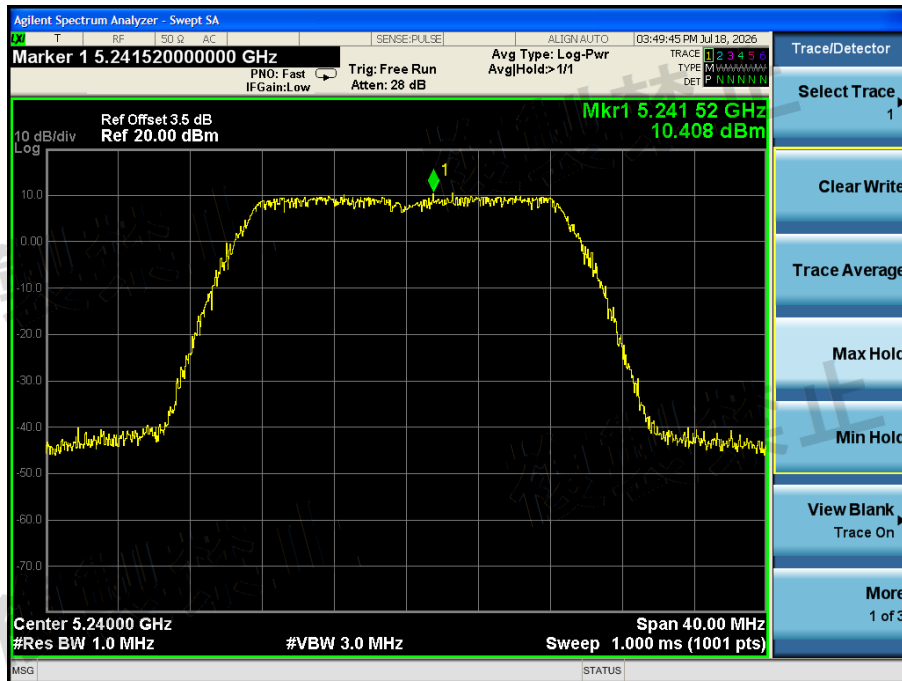


802.11ac (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



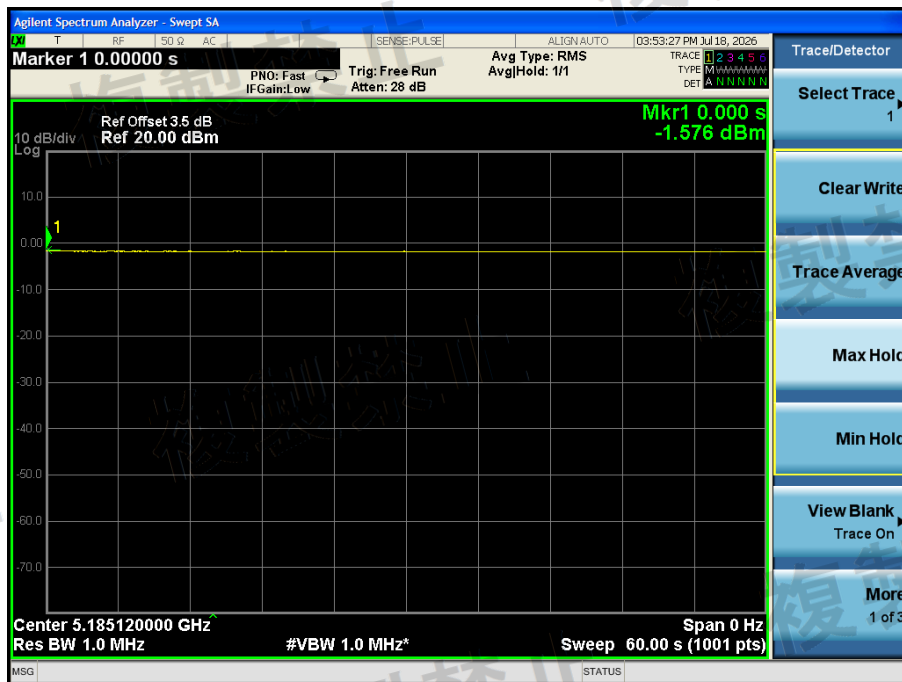
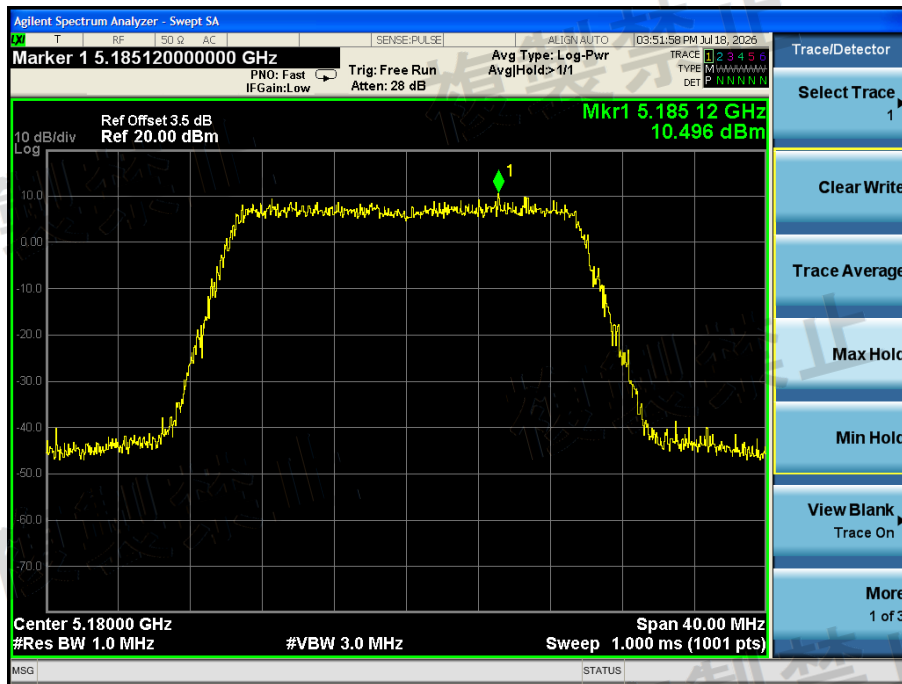


802.11ac (5.15GHz-5.25GHz)
The Highest Channel 48: 5240MHz



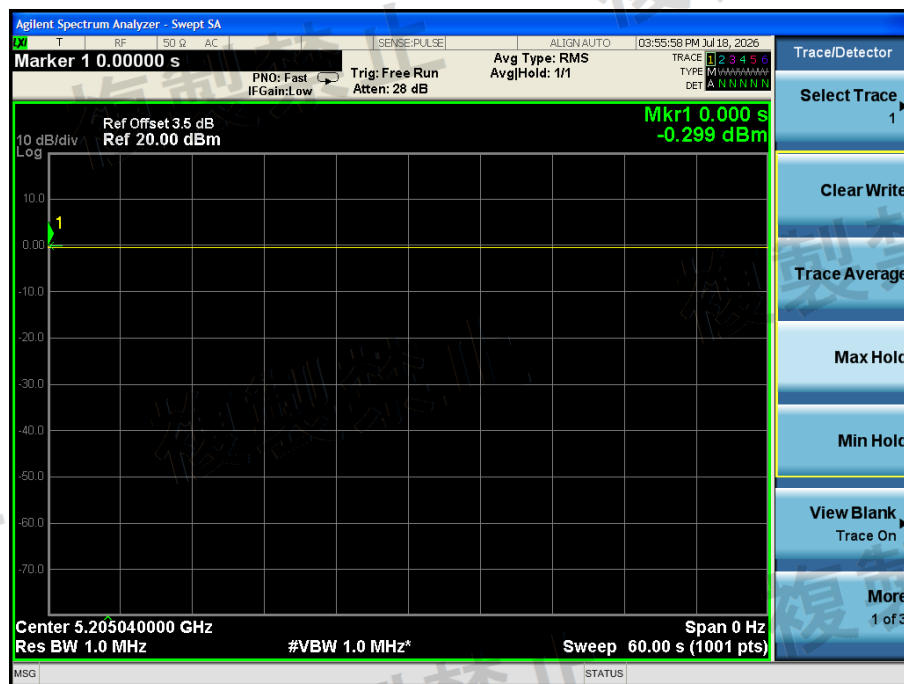
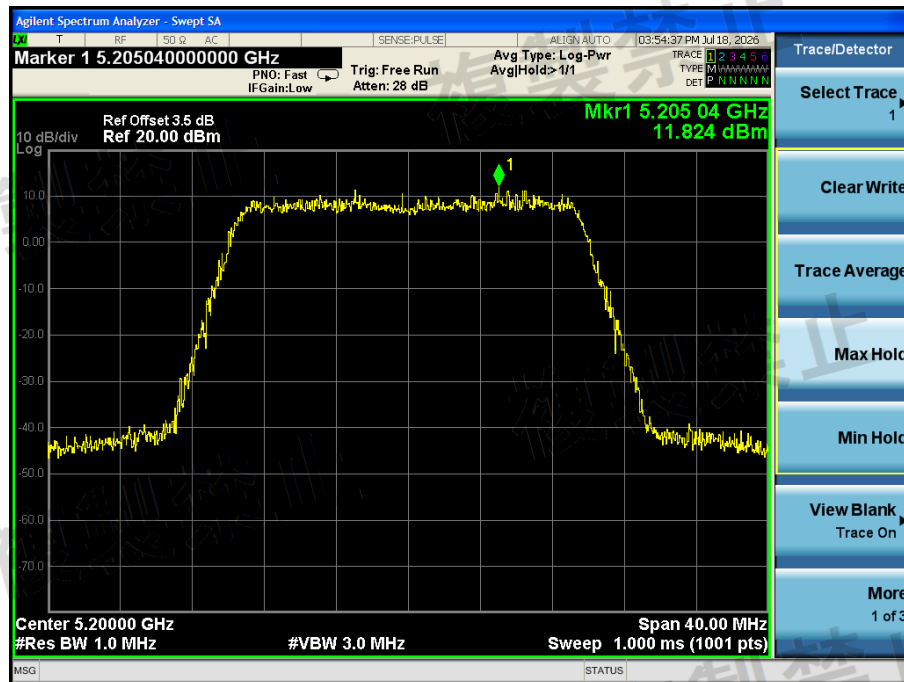


802.11ax (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



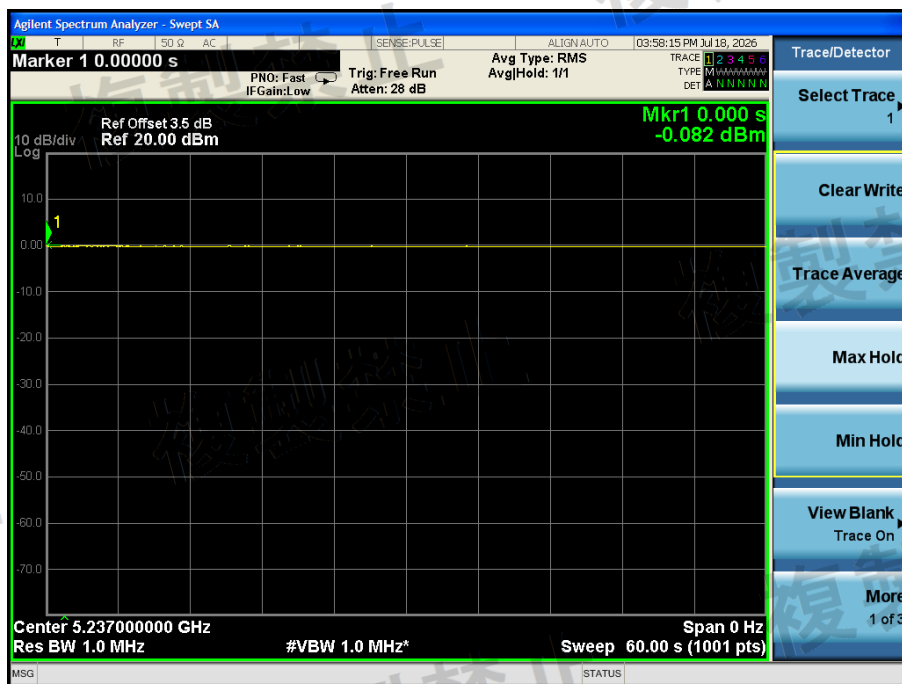
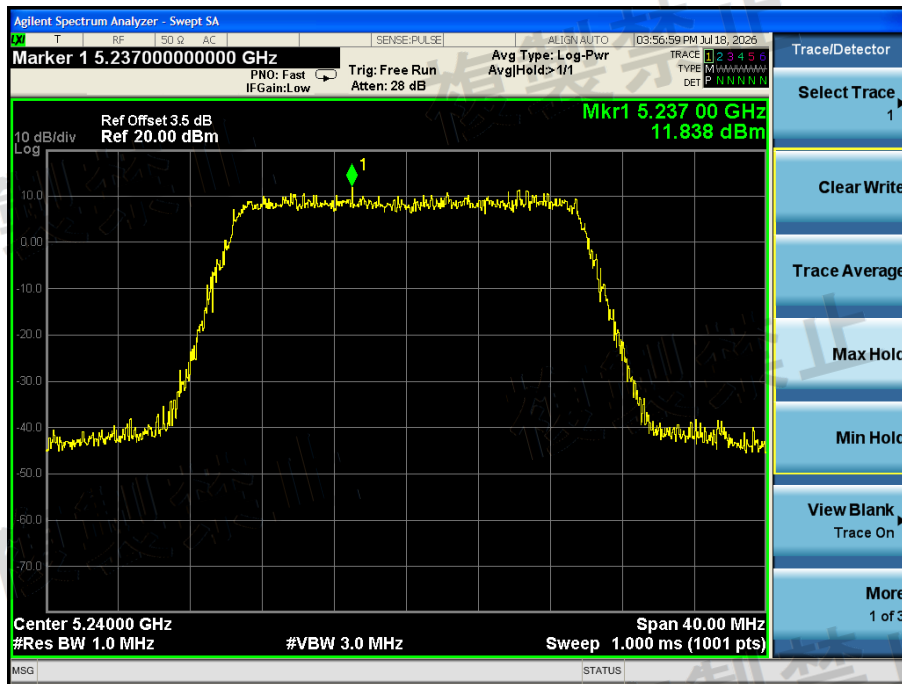


802.11ax (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



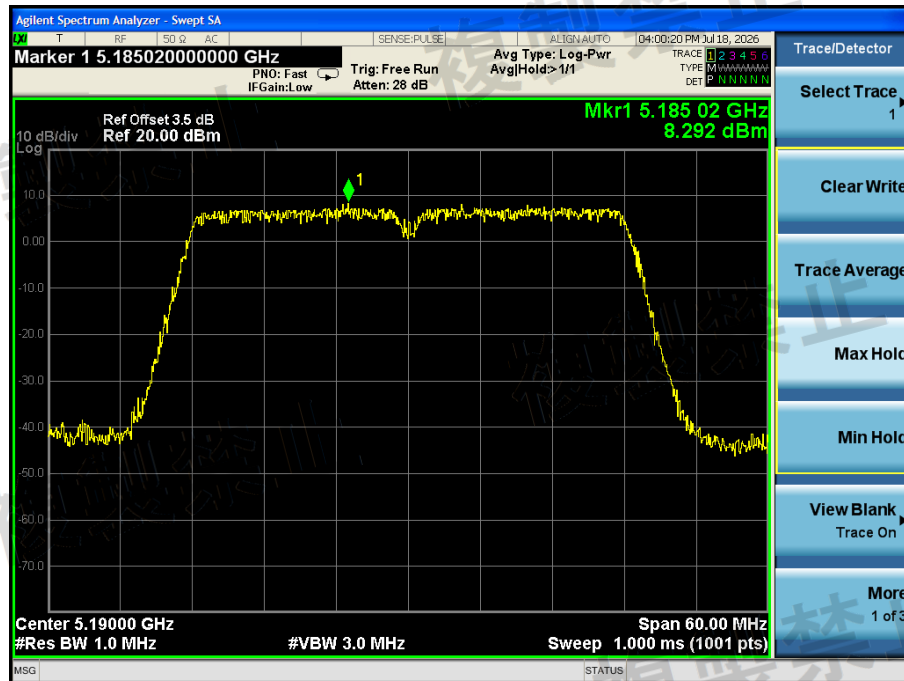


802.11ax (5.15GHz-5.25GHz)
The Highest Channel 48: 5240MHz



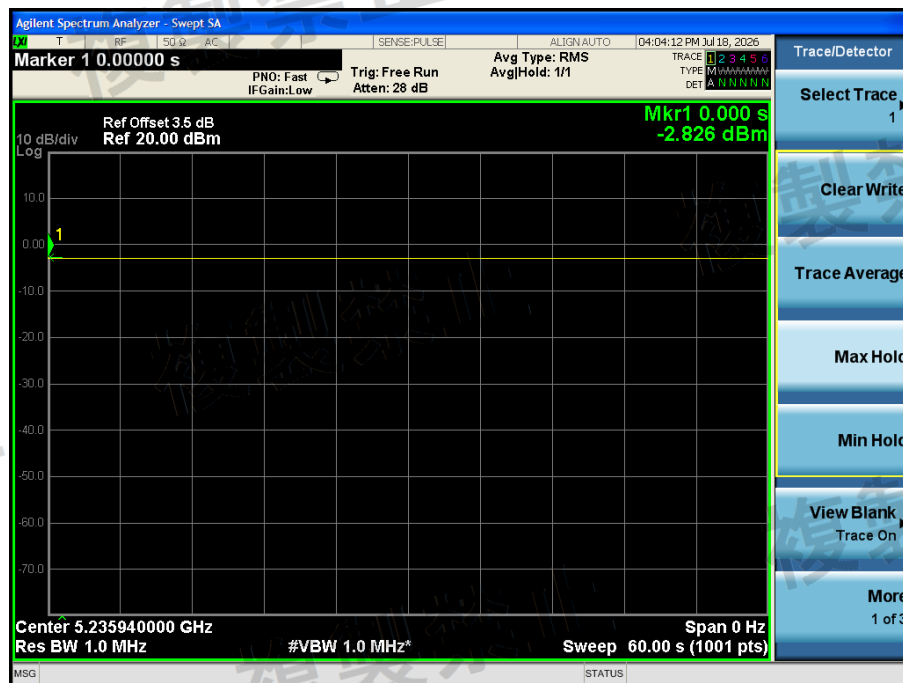
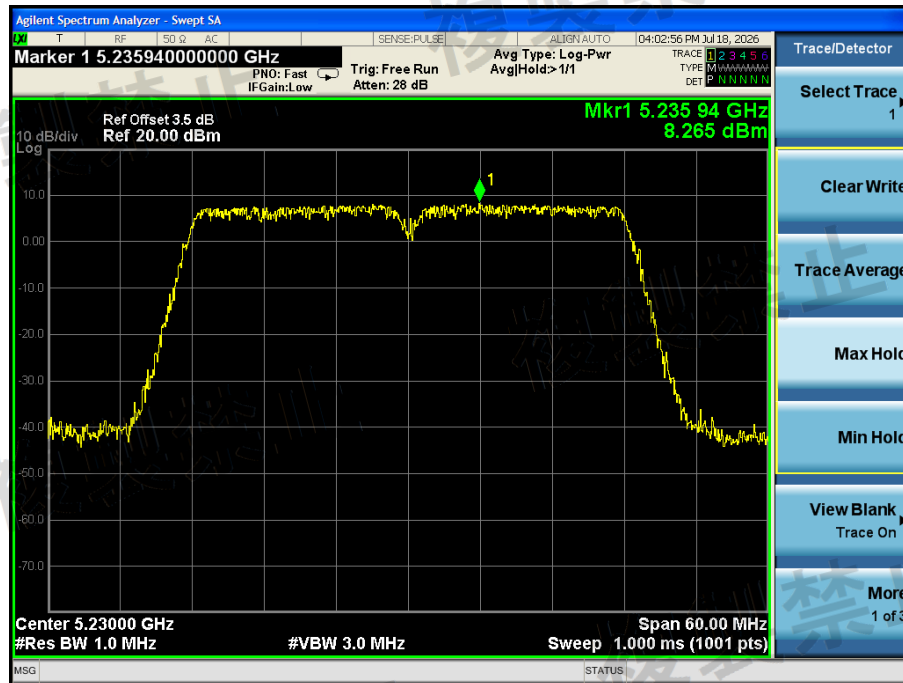


802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

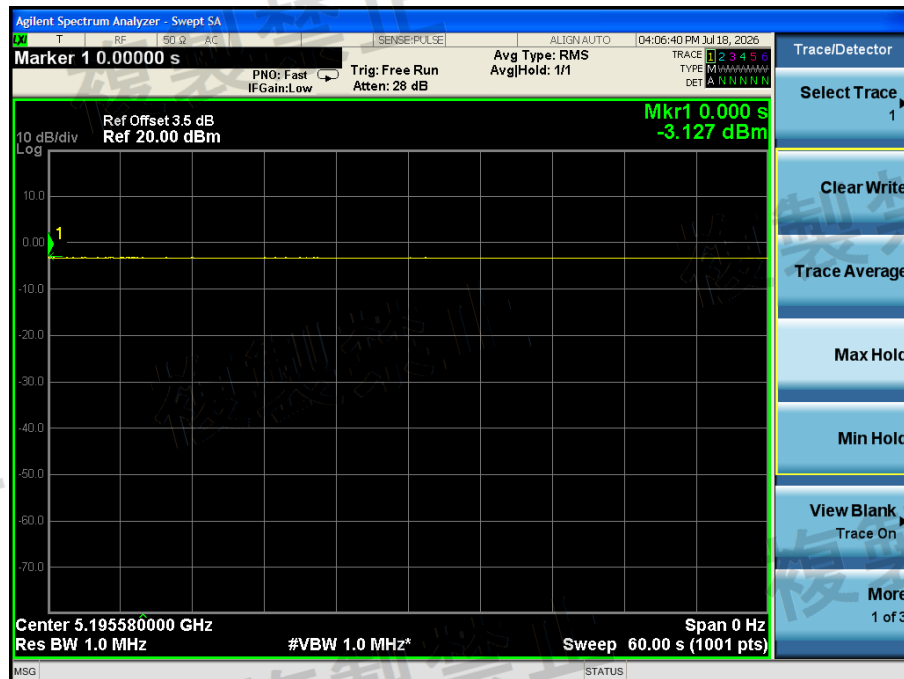
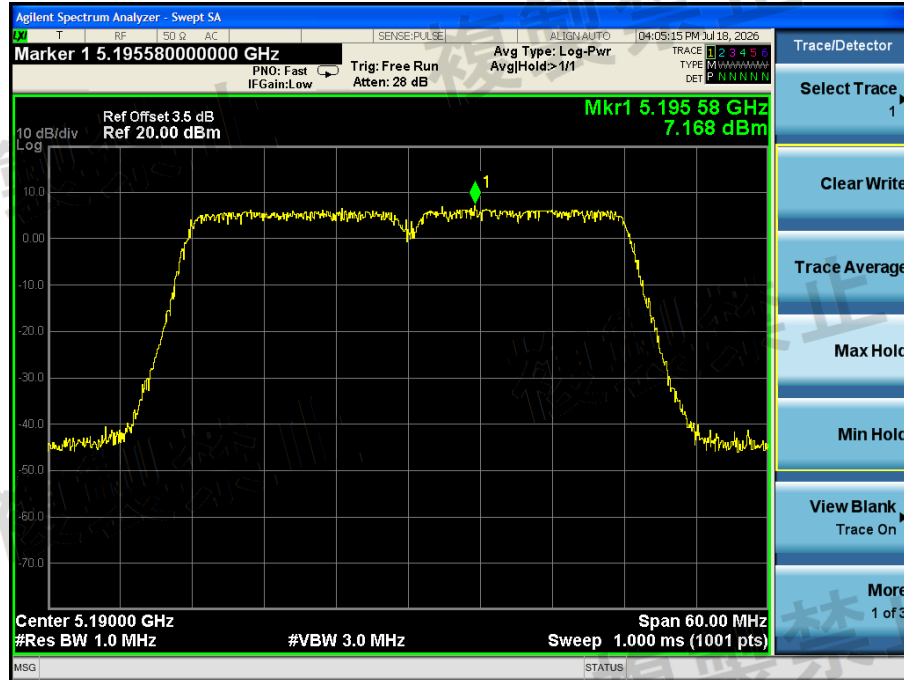




802.11n(40M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz

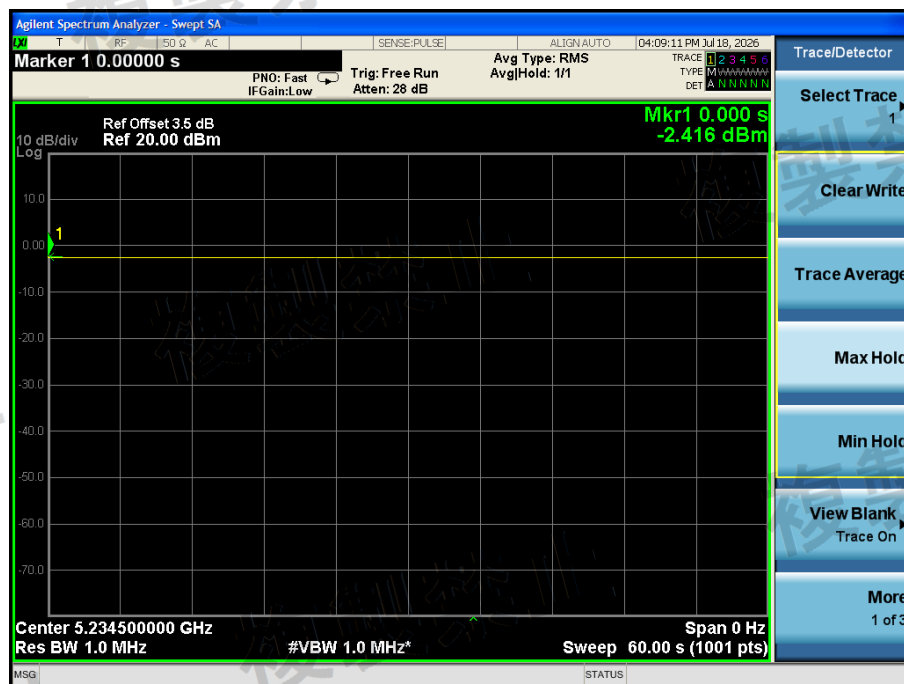
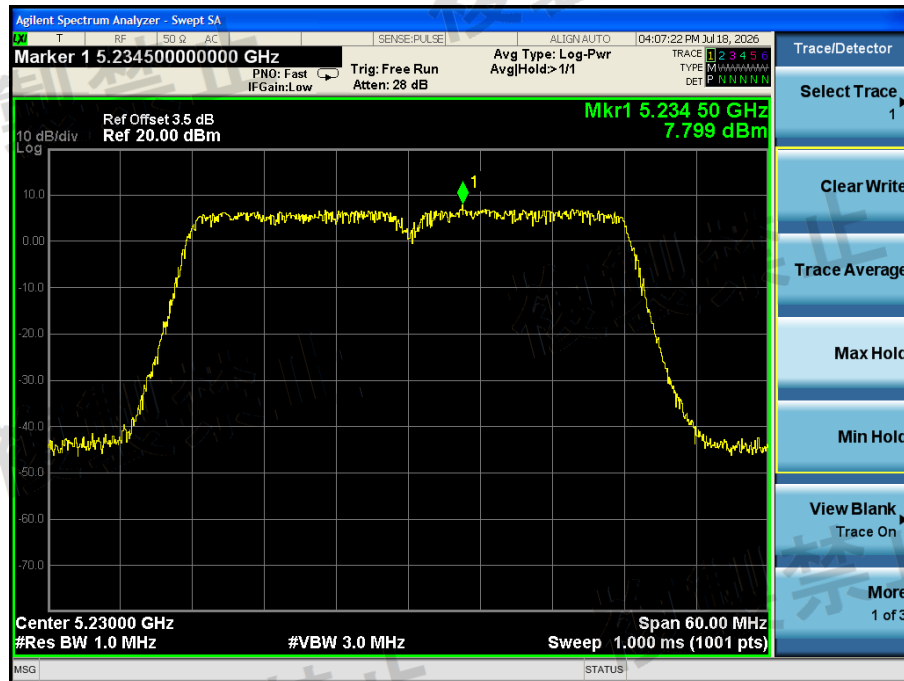


802.11ac(40M) (5.15GHz-5.25GHz) The Lowest Channel 38: 5190MHz



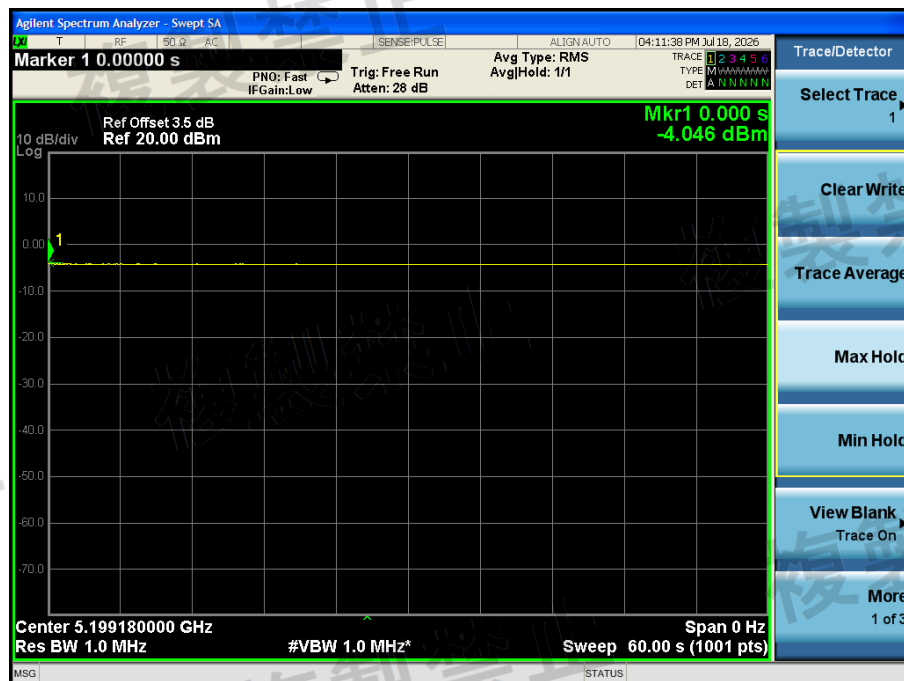
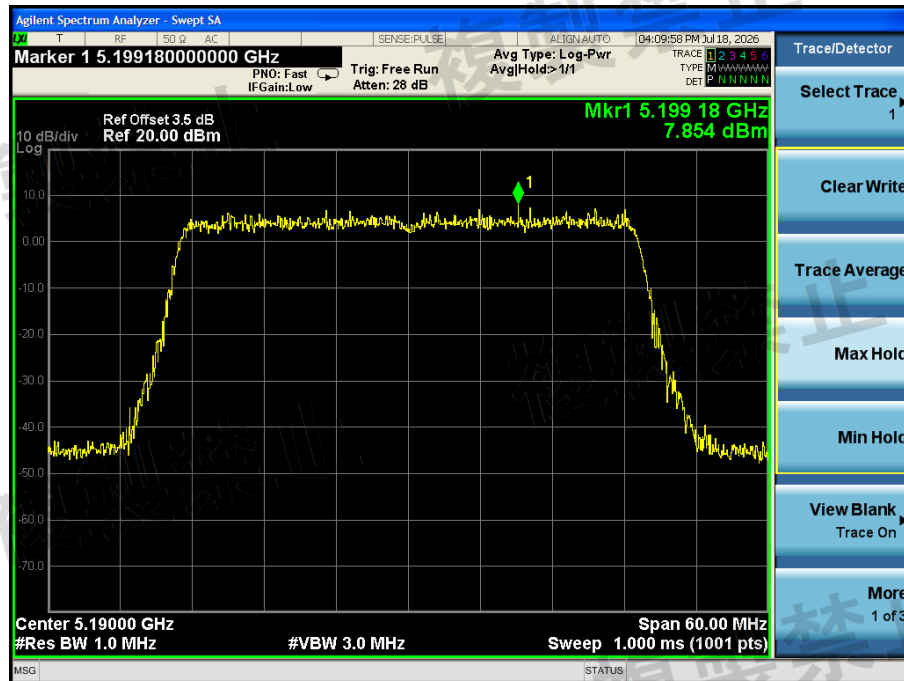


802.11ac(40M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



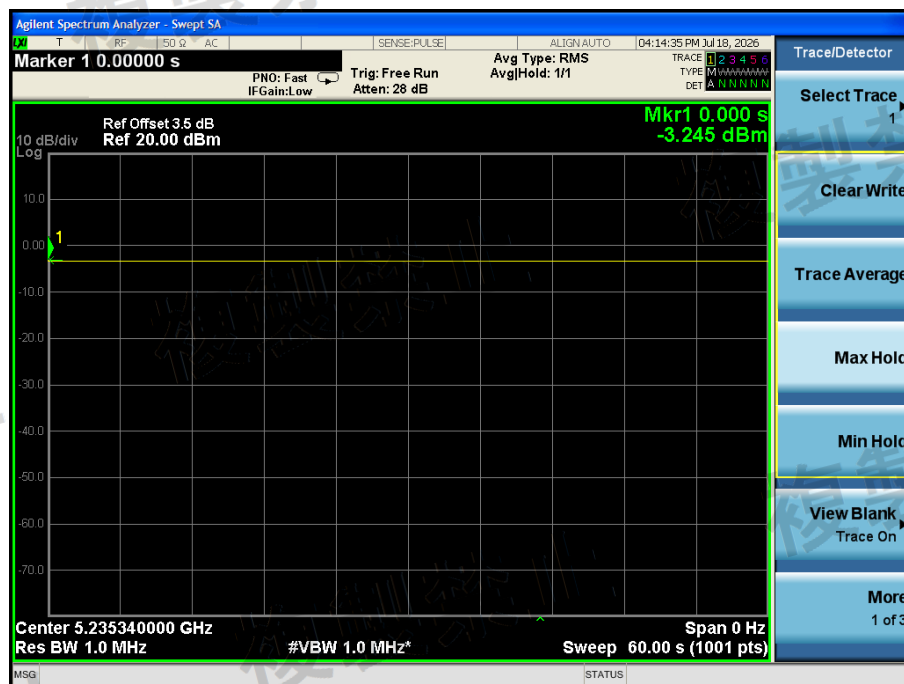
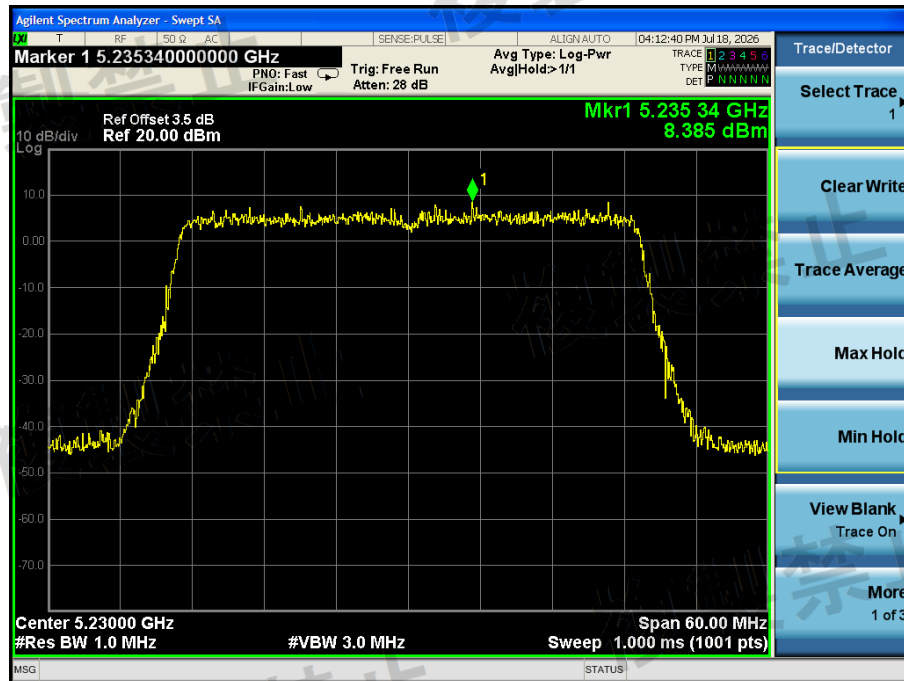


802.11ax(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



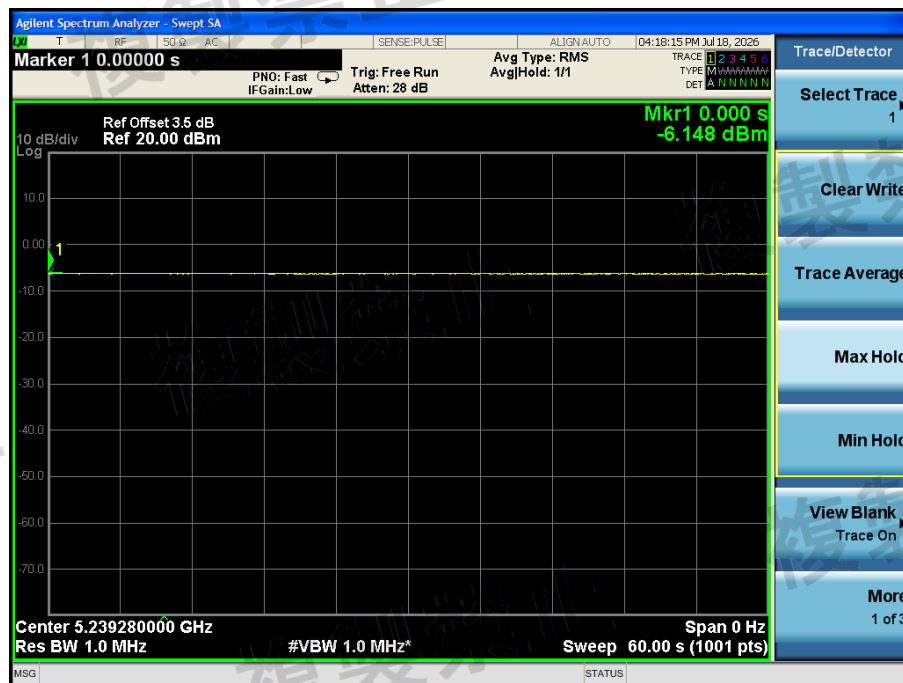
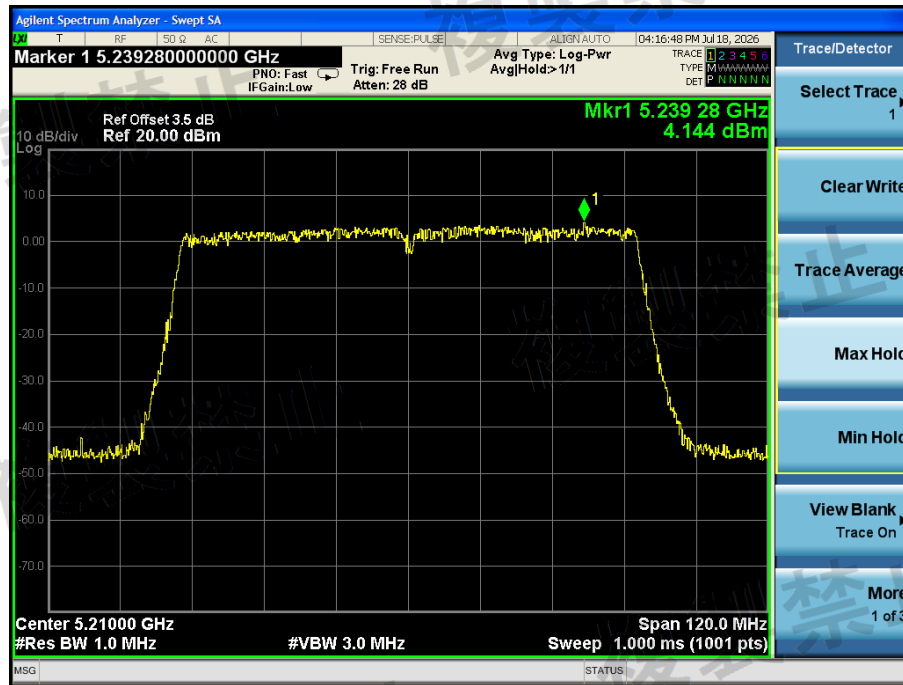


802.11ax(40M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



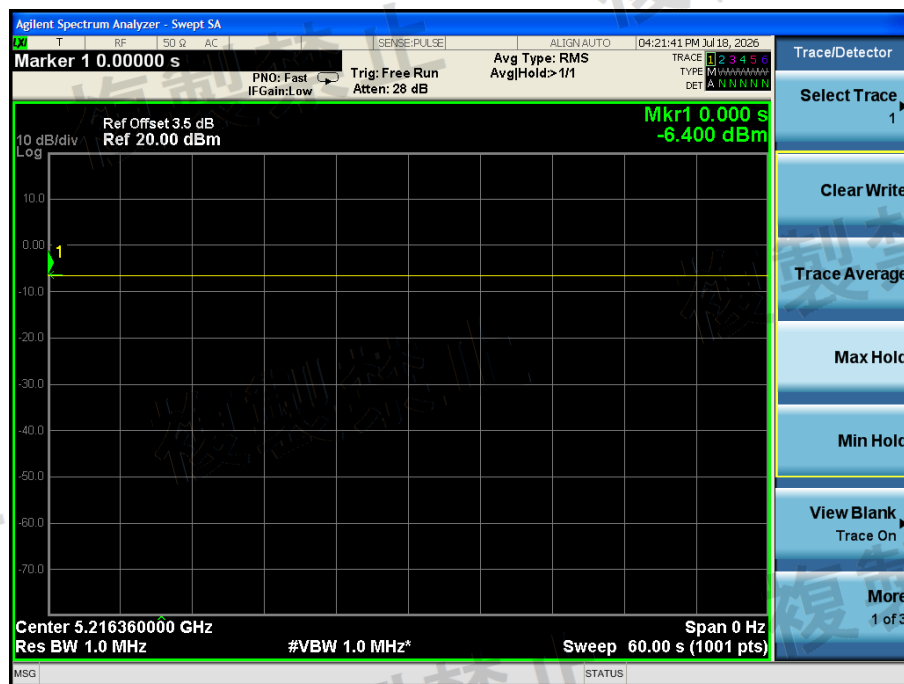
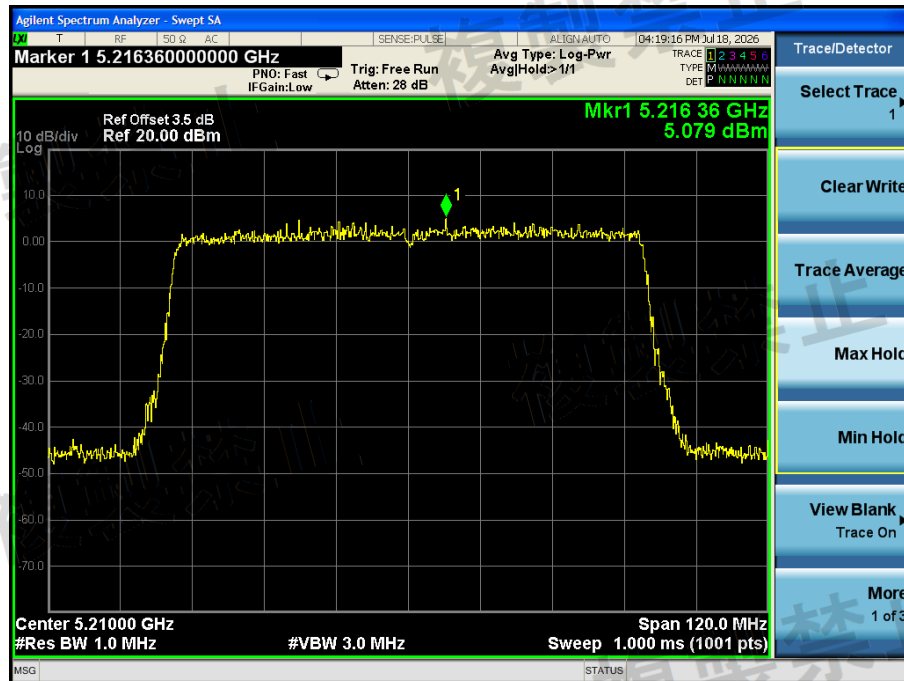


802.11ac(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz





802.11ac(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz





9. E.I.R.P MEASUREMENT

9.1 LIMIT

Mode	Limits
11a,11n,11ac 20MHz	$\leq 10\text{mW/MHz}$
11n,11ac 40MHz	$\leq 5\text{mW/MHz}$
11n,11ac 80 MHz	$\leq 2.5\text{mW/MHz}$

9.2 TEST PROCEDURES

EIRP Power= Conducted power + antenna gain.

9.3 TEST SETUP LAYOUT

Please refer to Section 8.4 of this test report.

9.4 TEST DEVIATION

There is no deviation with the original standard.

9.5 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

9.6 TEST RESULT OF TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER)



EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18,2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

Normal Voltage-a mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5180MHz	0.634	2.224	1.669	≤10
5200MHz	-1.530	0.060	1.014	≤10
5240MHz	0.696	2.286	1.693	≤10

Normal Voltage-n(20) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5180MHz	-0.833	0.757	1.190	≤10
5200MHz	-0.384	1.206	1.320	≤10
5240MHz	0.183	1.773	1.504	≤10

Normal Voltage-ac(20) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5180MHz	-0.473	1.117	1.293	≤10
5200MHz	-0.215	1.375	1.372	≤10
5240MHz	0.636	2.226	1.670	≤10

Normal Voltage-ax(20) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5180MHz	-1.576	0.014	1.003	≤10
5200MHz	-0.299	1.291	1.346	≤10
5240MHz	-0.082	1.508	1.415	≤10



Normal Voltage-n(40) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5190MHz	-3.838	-2.248	0.596	≤5
5230MHz	-2.826	-1.236	0.752	≤5

Normal Voltage-ac(40) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5190MHz	-3.127	-1.537	0.702	≤5
5230MHz	-2.416	-0.826	0.827	≤5

Normal Voltage-ax(40) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5190MHz	-4.046	-2.456	0.568	≤5
5230MHz	-3.245	-1.655	0.683	≤5

Normal Voltage-ac(80) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5210MHz	-6.148	-4.558	0.350	≤2.5

Normal Voltage-ax(80) mode

Frequency	power density	EIRP	EIRP	Limits
	(dBm/MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)
5210MHz	-6.400	-4.810	0.330	≤2.5

Note: E.I.R.P. (dBm/MHz) = Antenna Power (dBm/MHz) + Antenna Gain (dBi).

10 SPURIOUS EMISSIONS FOR RECEIVER

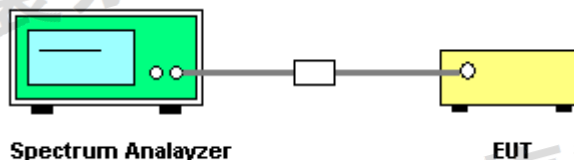
Limit

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

Test Procedure

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW:100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW.
4. If power level of lower emissions are more than 1/10 of limit ($.0.4\text{nW}$ 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.

10.1 TEST SETUP LAYOUT



10.2 TEST DEVIATION

There is no deviation with the original standard.

10.3 TEST DEVIATION

The EUT was programmed to be in continuously reception mode.

10.4 TEST RESULT OF LIMITATION OF COLLATERAL EMISSION OF RECEIVER



EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18,2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (nW/MHz)	Limit (nW/MHz)	Verdict
NVNT	a	5180	30-1000	869.05	-80.39	0.0091	4	Pass
NVNT	a	5180	1000-26000	2450	-60.58	0.875	20	Pass
NVNT	a	5200	30-1000	869.05	-80.91	0.0081	4	Pass
NVNT	a	5200	1000-26000	5200	-55.96	2.5351	20	Pass
NVNT	a	5240	30-1000	869.05	-76.68	0.0215	4	Pass
NVNT	a	5240	1000-26000	2450	-59.1	1.2303	20	Pass
NVNT	n20	5180	30-1000	870.99	-87.64	0.0017	4	Pass
NVNT	n20	5180	1000-26000	3550	-62.43	0.5715	20	Pass
NVNT	n20	5200	30-1000	847.71	-89	0.0013	4	Pass
NVNT	n20	5200	1000-26000	25950	-64.73	0.3365	20	Pass
NVNT	n20	5240	30-1000	773.99	-88.34	0.0015	4	Pass
NVNT	n20	5240	1000-26000	25975	-65.31	0.2944	20	Pass
NVNT	n40	5190	30-1000	807.94	-88.36	0.0015	4	Pass
NVNT	n40	5190	1000-26000	25975	-64.72	0.3373	20	Pass
NVNT	n40	5230	30-1000	845.77	-88.3	0.0015	4	Pass
NVNT	n40	5230	1000-26000	26000	-64.69	0.3396	20	Pass
NVNT	ac20	5180	30-1000	959.26	-88.7	0.0013	4	Pass
NVNT	ac20	5180	1000-26000	25950	-64.64	0.3436	20	Pass
NVNT	ac20	5200	30-1000	908.82	-88.37	0.0015	4	Pass
NVNT	ac20	5200	1000-26000	25025	-64.57	0.3491	20	Pass
NVNT	ac20	5240	30-1000	807.94	-88.66	0.0014	4	Pass
NVNT	ac20	5240	1000-26000	26000	-64.69	0.3396	20	Pass
NVNT	ac40	5190	30-1000	923.37	-87.79	0.0017	4	Pass
NVNT	ac40	5190	1000-26000	26000	-64.54	0.3516	20	Pass
NVNT	ac40	5230	30-1000	939.86	-87.92	0.0016	4	Pass
NVNT	ac40	5230	1000-26000	25950	-64.4	0.3631	20	Pass
NVNT	ac80	5210	30-1000	906.88	-88.57	0.0014	4	Pass
NVNT	ac80	5210	1000-26000	2450	-61.35	0.7328	20	Pass
NVNT	ax20	5180	30-1000	994.18	-88.55	0.0014	4	Pass
NVNT	ax20	5180	1000-26000	26000	-64.2	0.3802	20	Pass



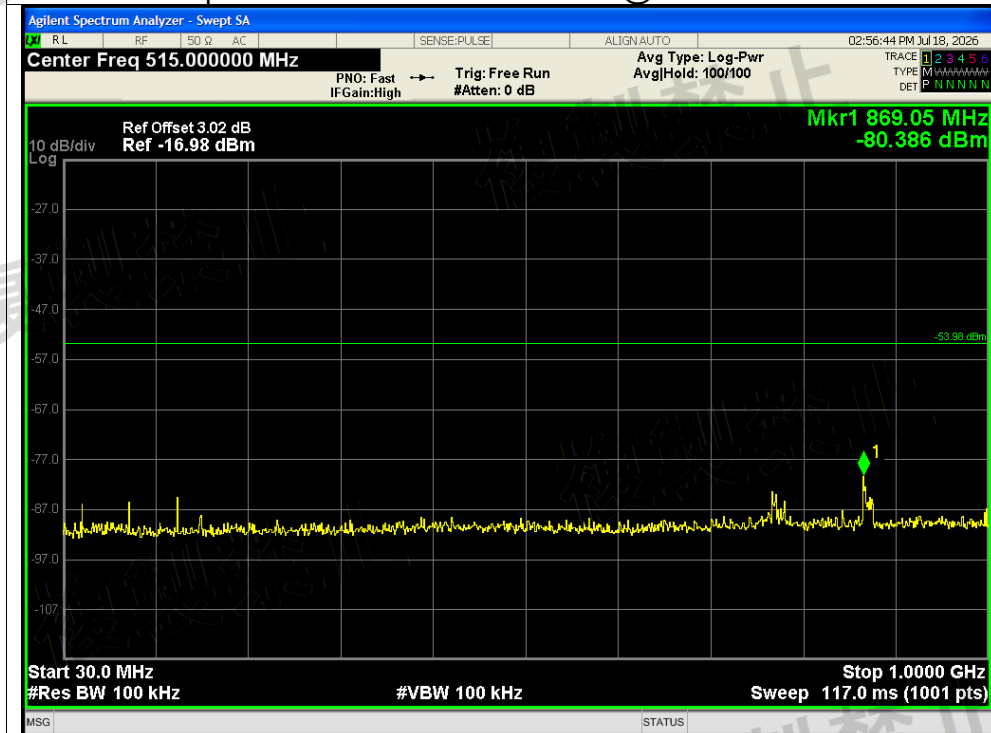
NVNT	ax20	5200	30-1000	743.92	-88.86	0.0013	4	Pass
NVNT	ax20	5200	1000-26000	26000	-63.31	0.4667	20	Pass
NVNT	ax20	5240	30-1000	571.26	-88.99	0.0013	4	Pass
NVNT	ax20	5240	1000-26000	26000	-63.82	0.415	20	Pass
NVNT	ax40	5190	30-1000	815.7	-88.87	0.0013	4	Pass
NVNT	ax40	5190	1000-26000	2450	-62.8	0.5248	20	Pass
NVNT	ax40	5230	30-1000	796.3	-86.92	0.002	4	Pass
NVNT	ax40	5230	1000-26000	25050	-64.55	0.3508	20	Pass
NVNT	ax80	5210	30-1000	800.18	-88.68	0.0014	4	Pass
NVNT	ax80	5210	1000-26000	26000	-63.39	0.4581	20	Pass

Note: Test graphs compensated for antenna gain.



Test Graphs

Rx. Spurious NVNT a 5180MHz Ant1 @ 30MHz-1000MHz

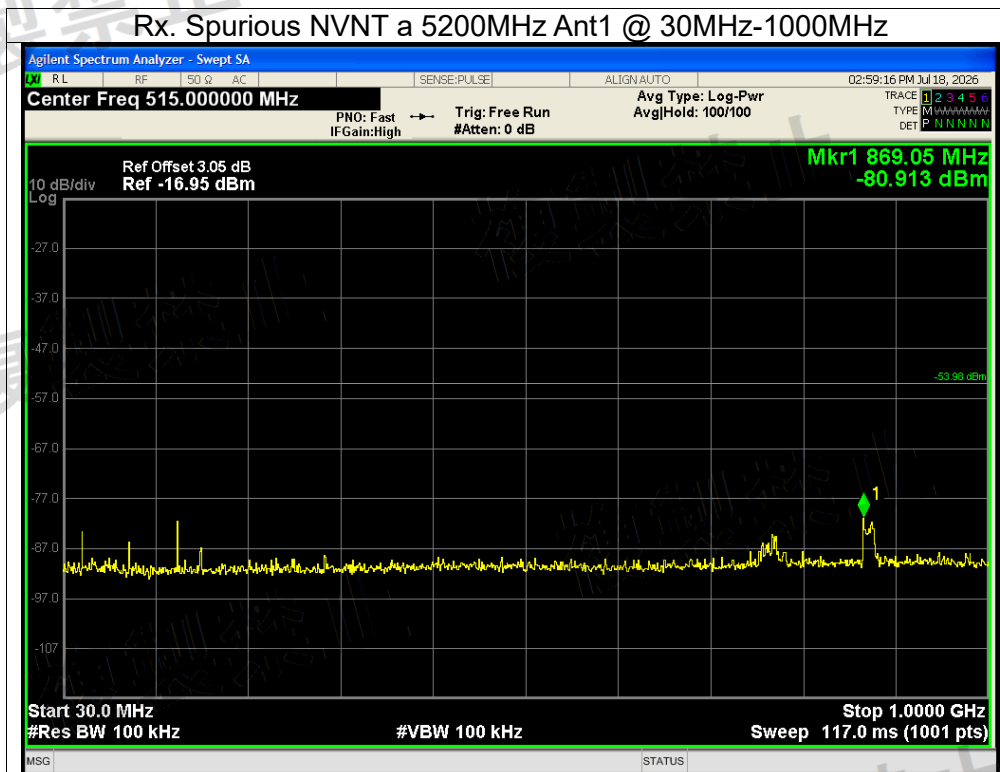


Rx. Spurious NVNT a 5180MHz Ant1 @ 1000MHz-26000MHz

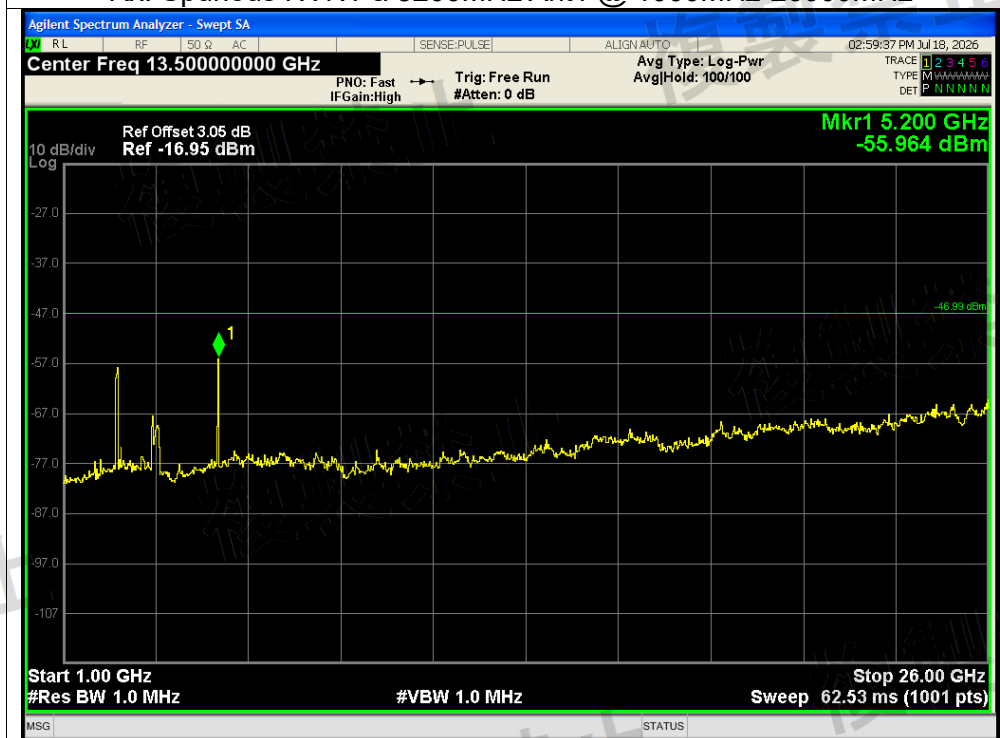




Rx. Spurious NVNT a 5200MHz Ant1 @ 30MHz-1000MHz

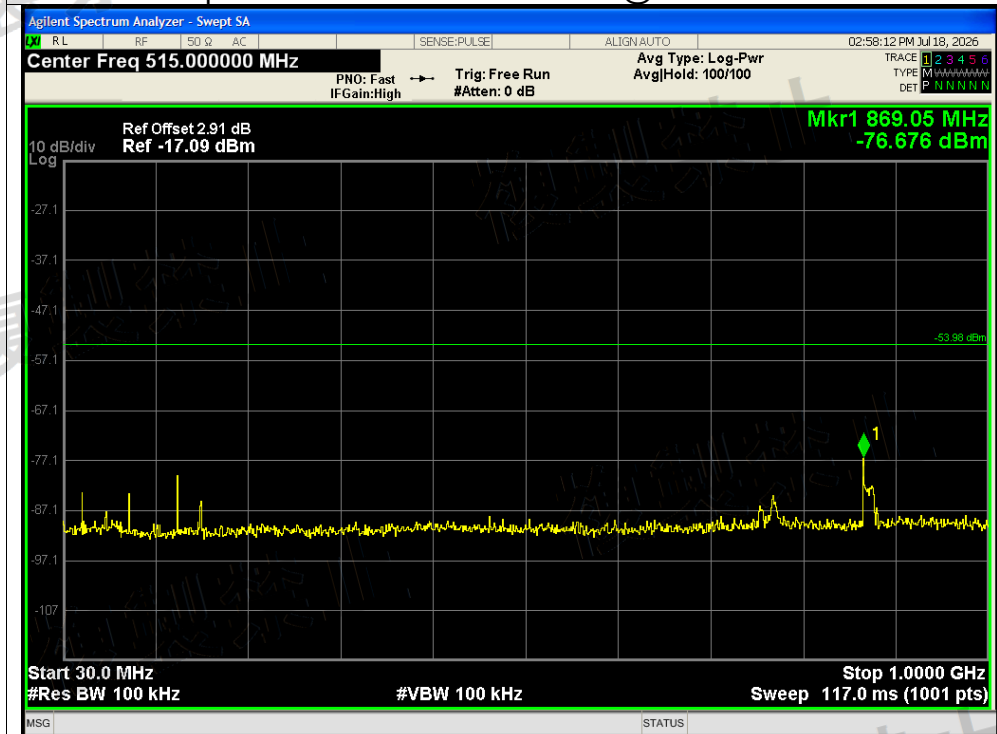


Rx. Spurious NVNT a 5200MHz Ant1 @ 1000MHz-26000MHz

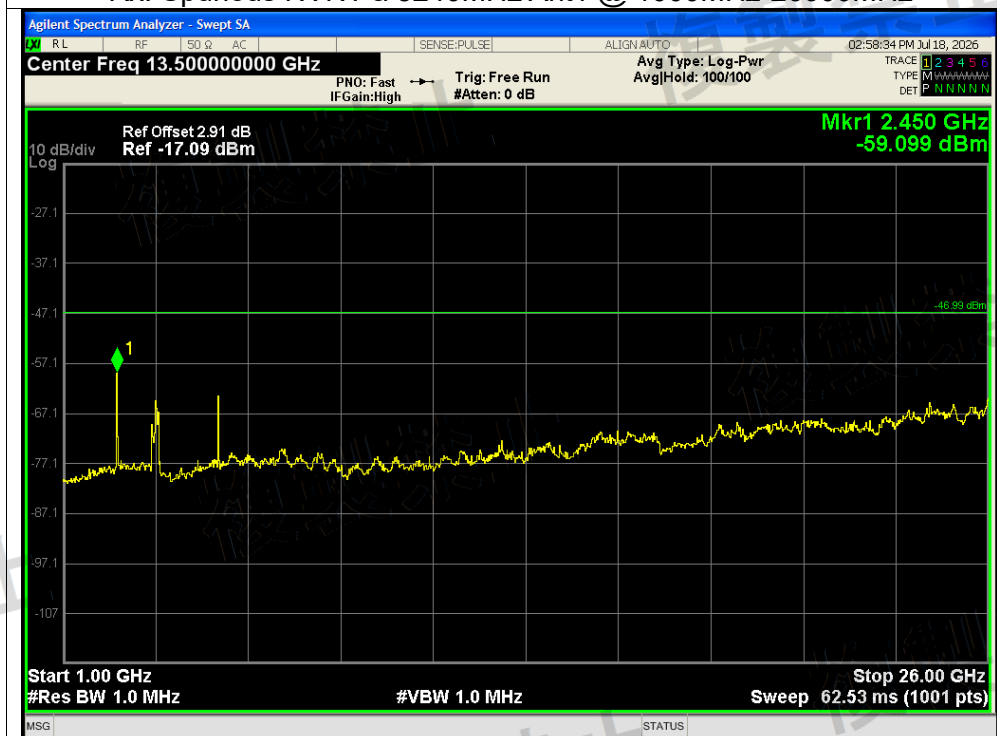




Rx. Spurious NVNT a 5240MHz Ant1 @ 30MHz-1000MHz

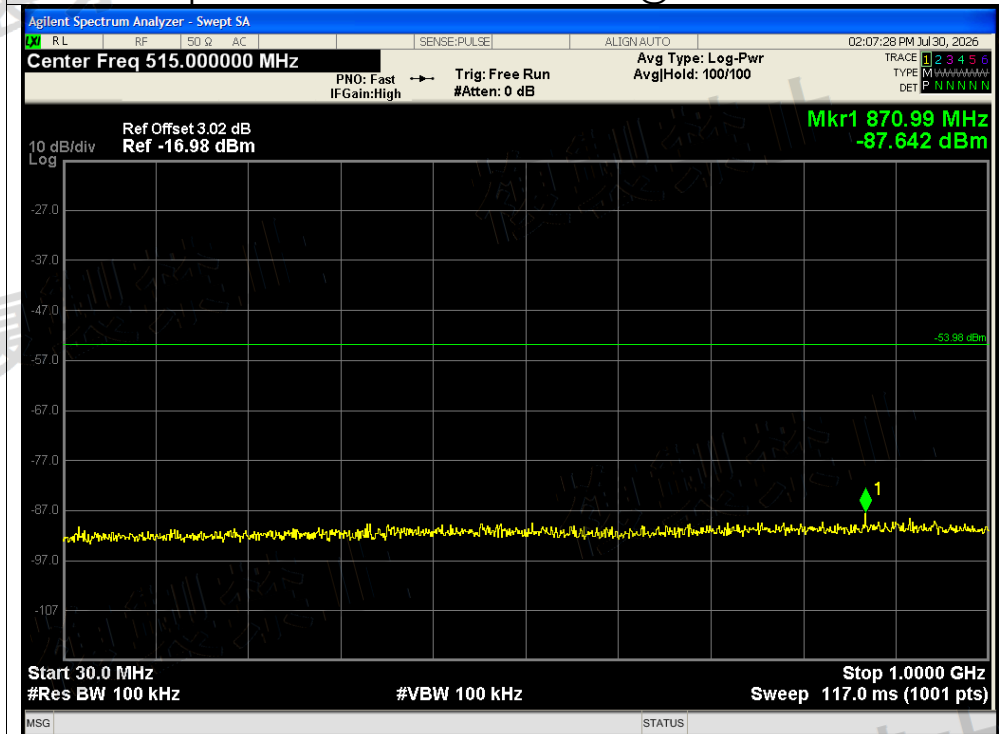


Rx. Spurious NVNT a 5240MHz Ant1 @ 1000MHz-26000MHz

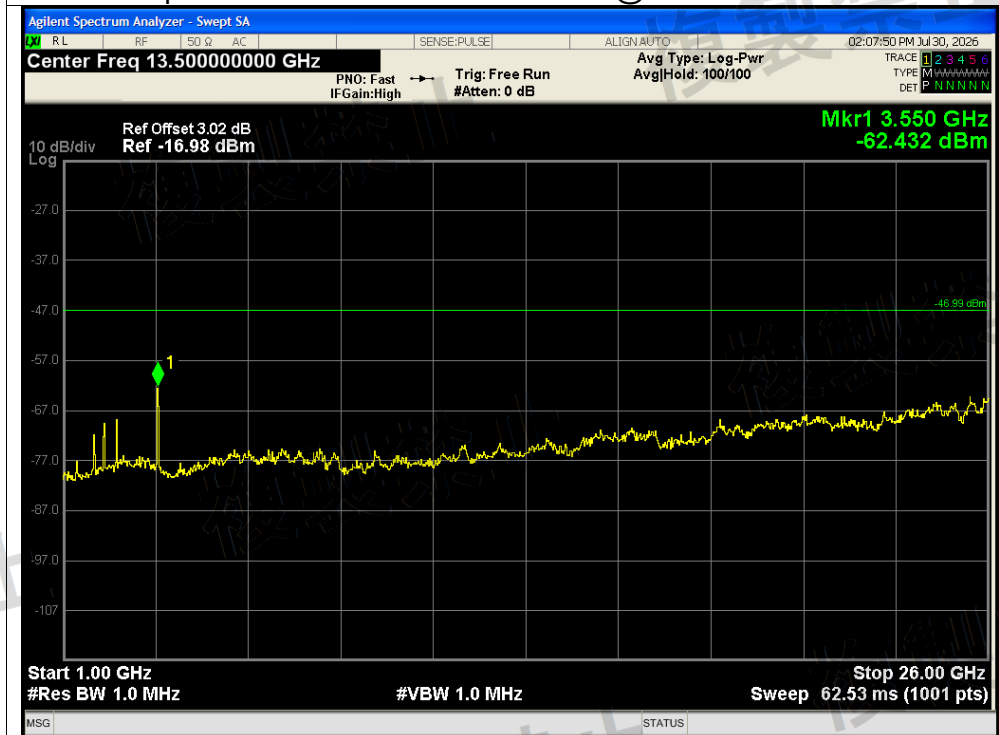




Rx. Spurious NVNT n20 5180MHz Ant1 @ 30MHz-1000MHz

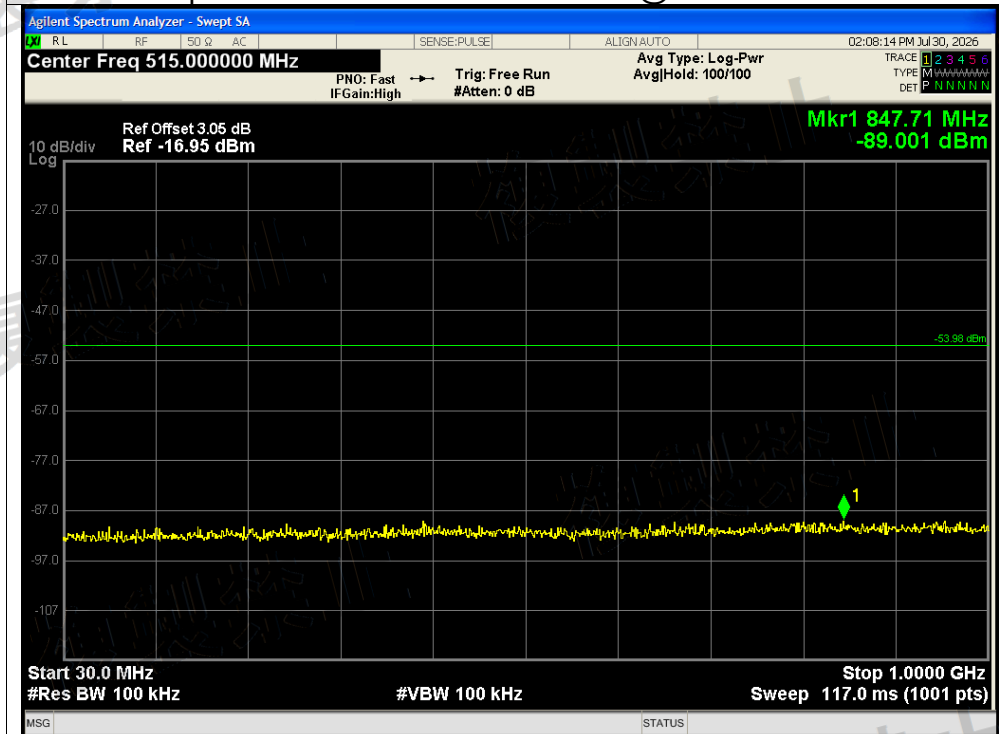


Rx. Spurious NVNT n20 5180MHz Ant1 @ 1000MHz-26000MHz





Rx. Spurious NVNT n20 5200MHz Ant1 @ 30MHz-1000MHz

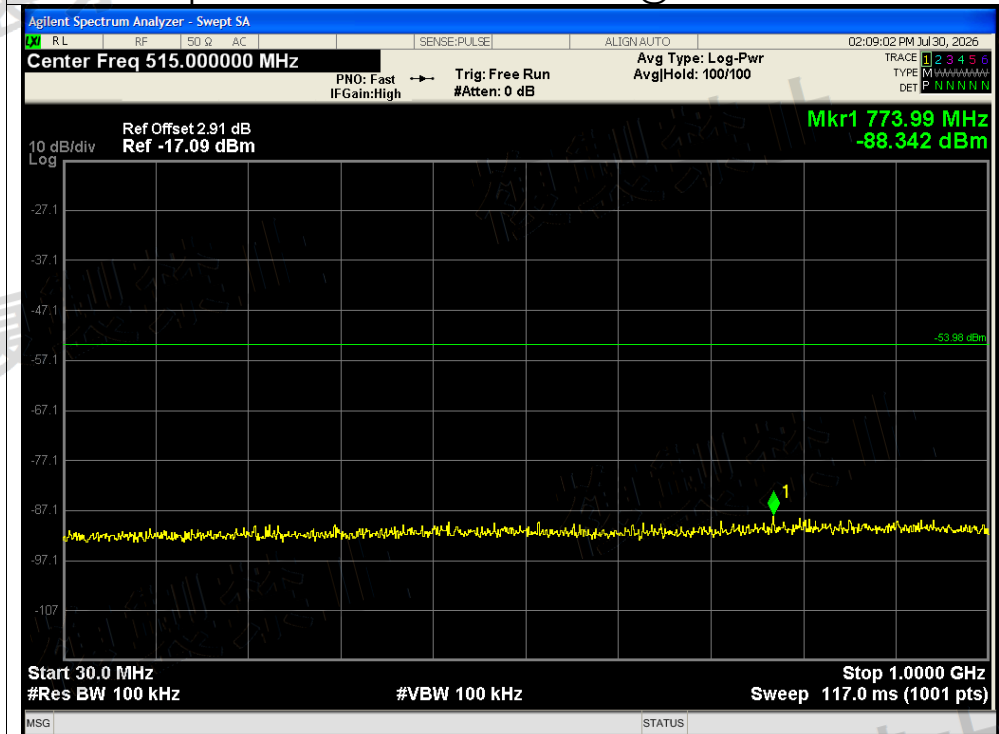


Rx. Spurious NVNT n20 5200MHz Ant1 @ 1000MHz-26000MHz

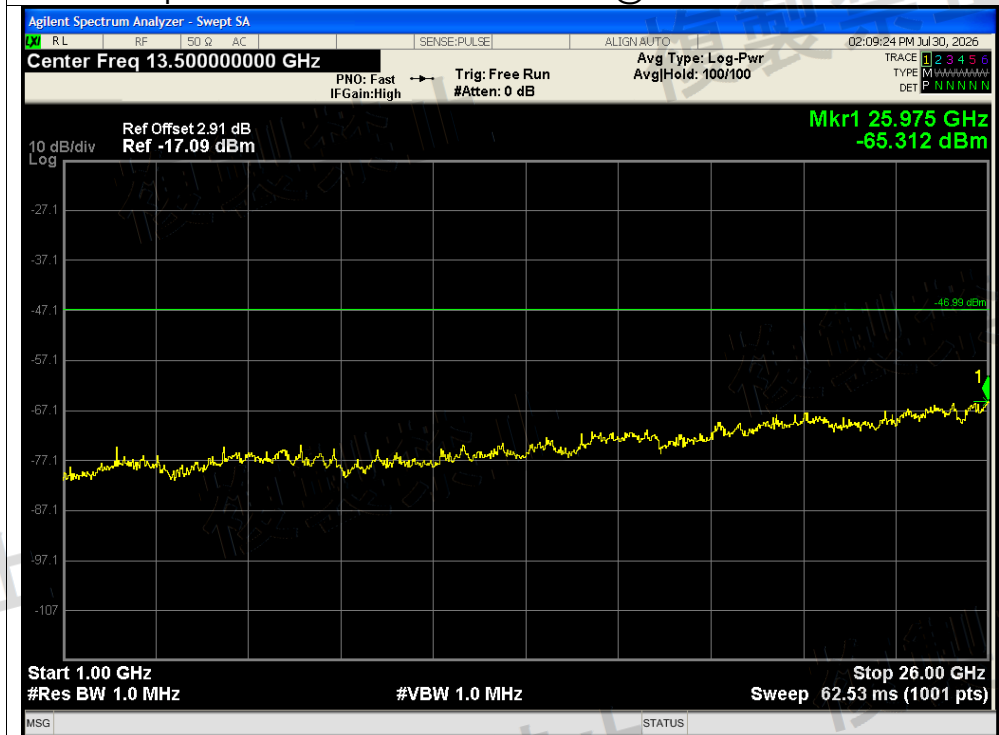




Rx. Spurious NVNT n20 5240MHz Ant1 @ 30MHz-1000MHz

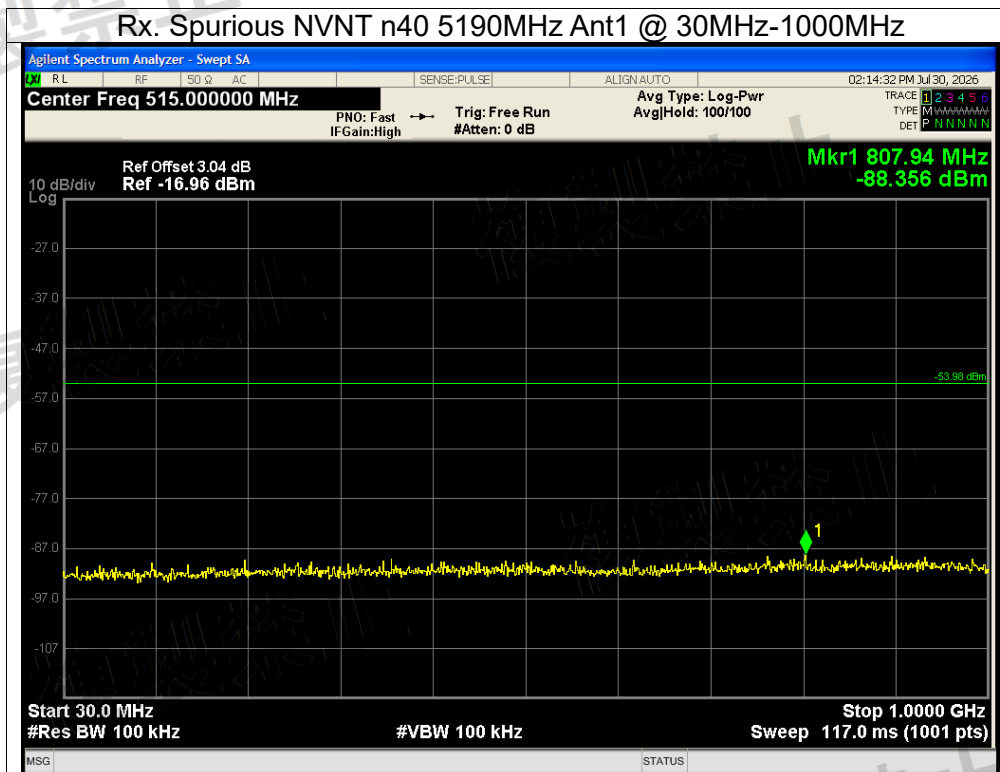


Rx. Spurious NVNT n20 5240MHz Ant1 @ 1000MHz-26000MHz





Rx. Spurious NVNT n40 5190MHz Ant1 @ 30MHz-1000MHz

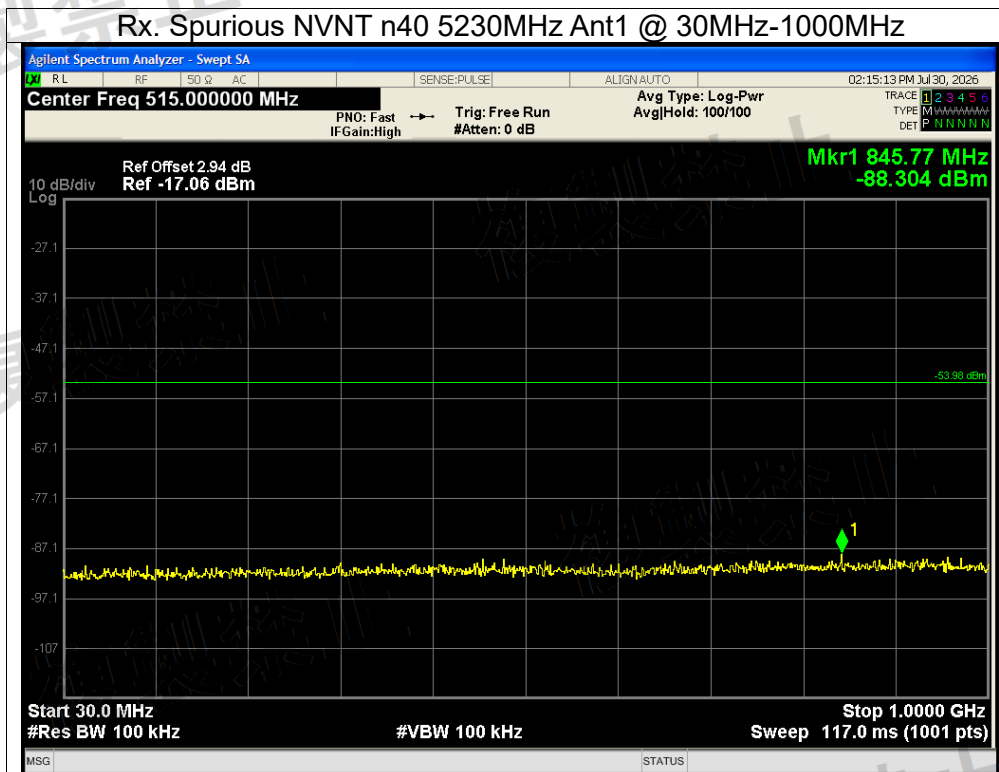


Rx. Spurious NVNT n40 5190MHz Ant1 @ 1000MHz-26000MHz

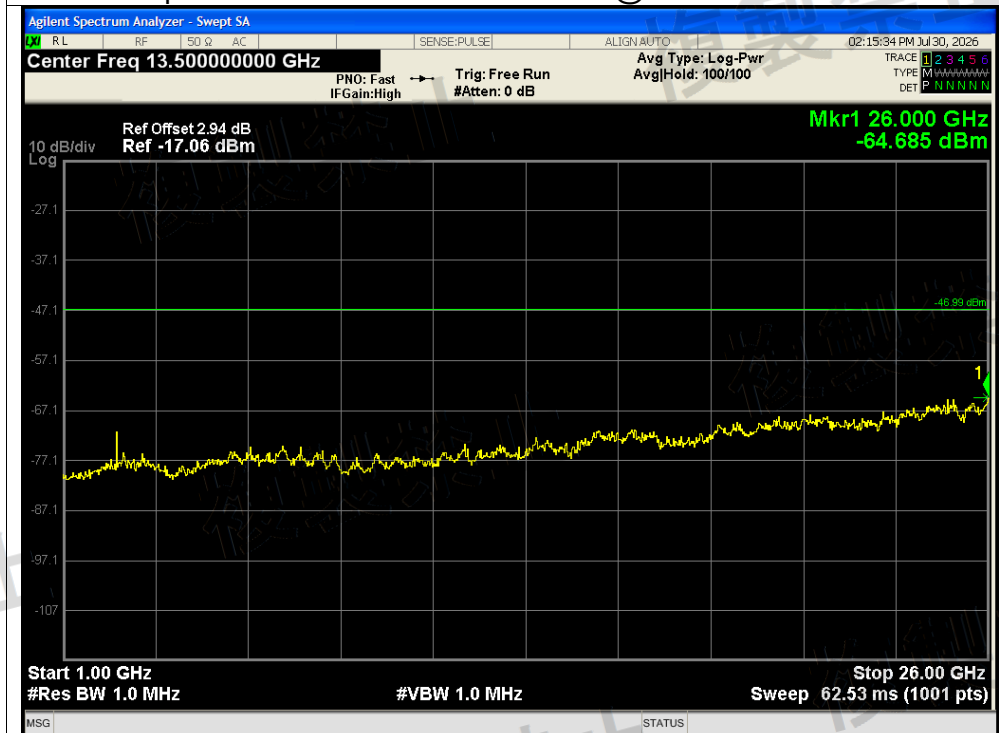




Rx. Spurious NVNT n40 5230MHz Ant1 @ 30MHz-1000MHz

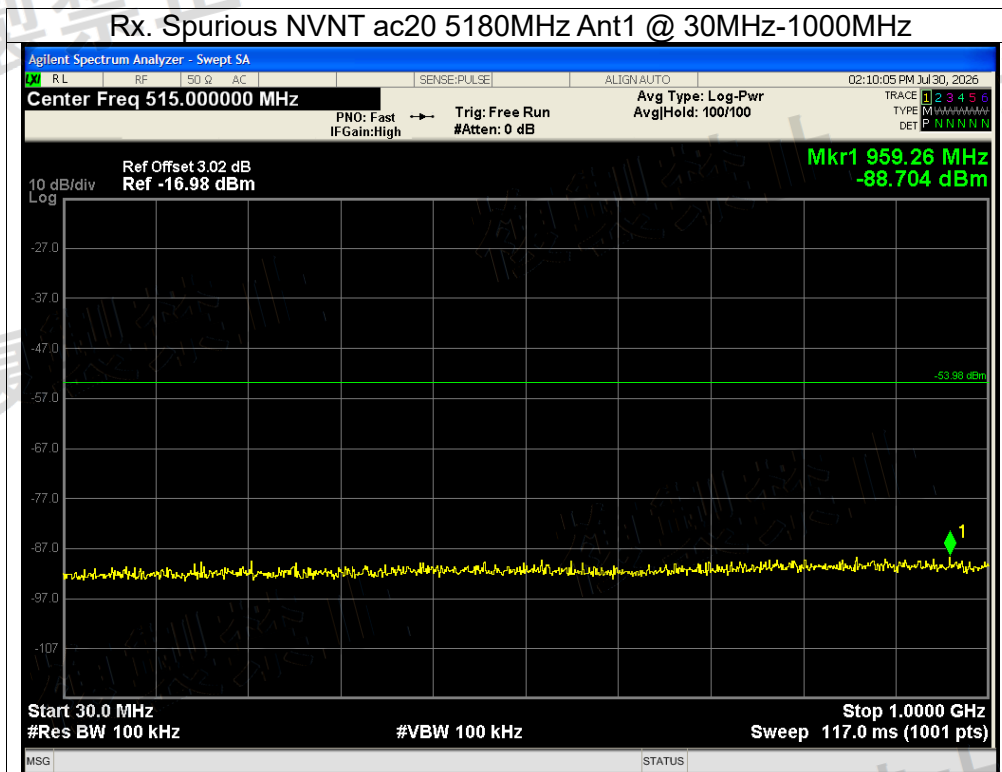


Rx. Spurious NVNT n40 5230MHz Ant1 @ 1000MHz-26000MHz





Rx. Spurious NVNT ac20 5180MHz Ant1 @ 30MHz-1000MHz

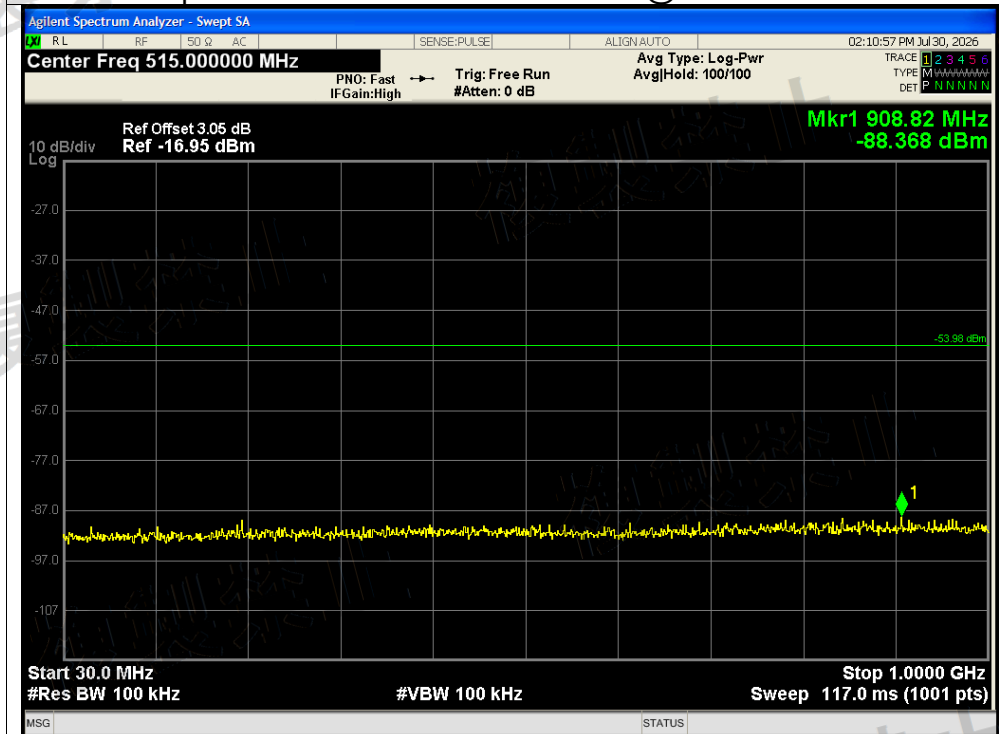


Rx. Spurious NVNT ac20 5180MHz Ant1 @ 1000MHz-26000MHz

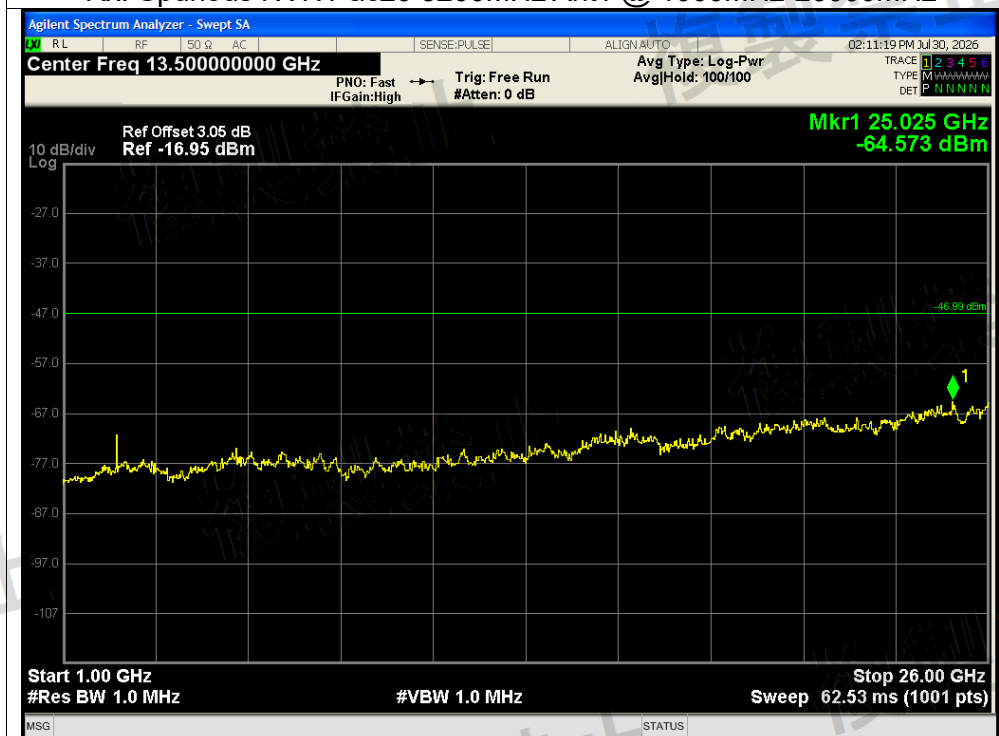




Rx. Spurious NVNT ac20 5200MHz Ant1 @ 30MHz-1000MHz

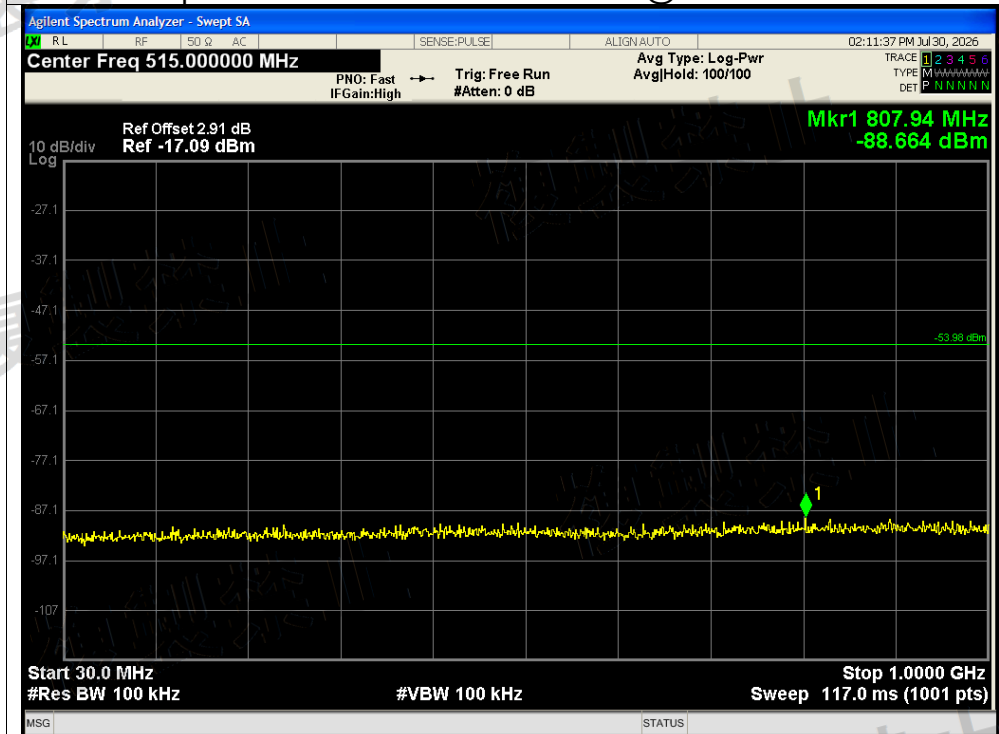


Rx. Spurious NVNT ac20 5200MHz Ant1 @ 1000MHz-26000MHz

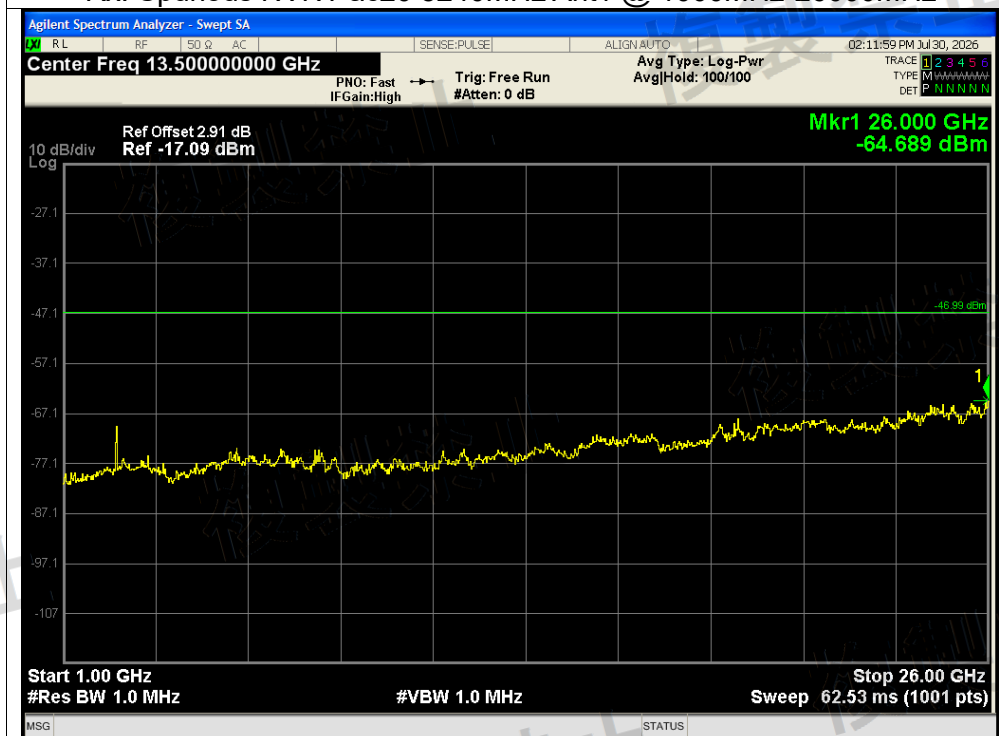




Rx. Spurious NVNT ac20 5240MHz Ant1 @ 30MHz-1000MHz

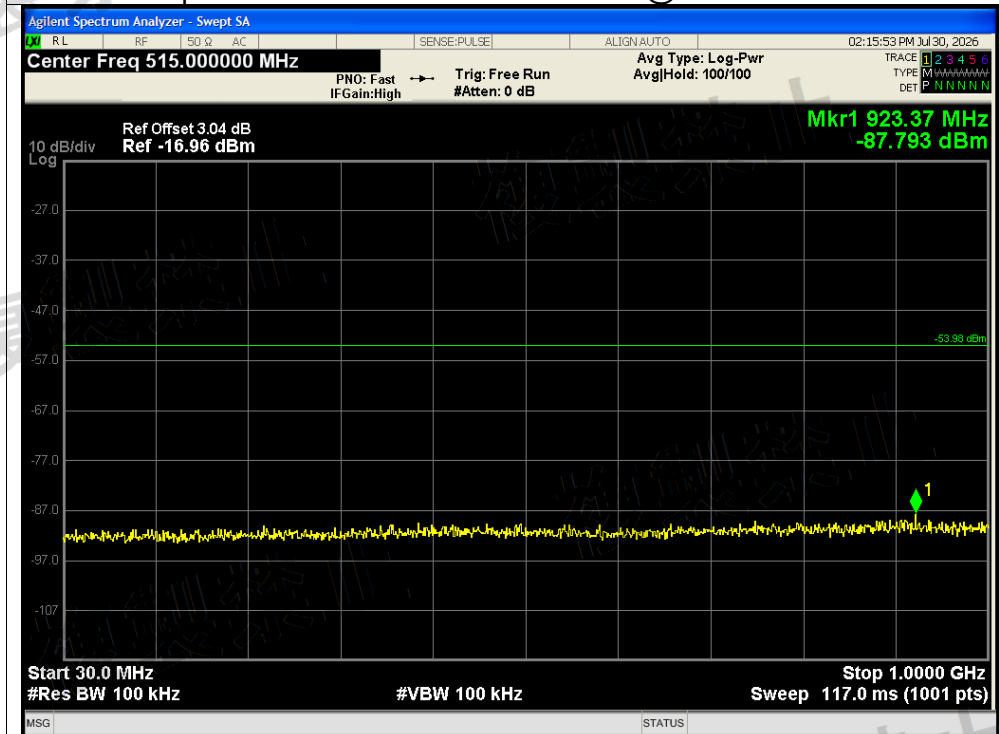


Rx. Spurious NVNT ac20 5240MHz Ant1 @ 1000MHz-26000MHz

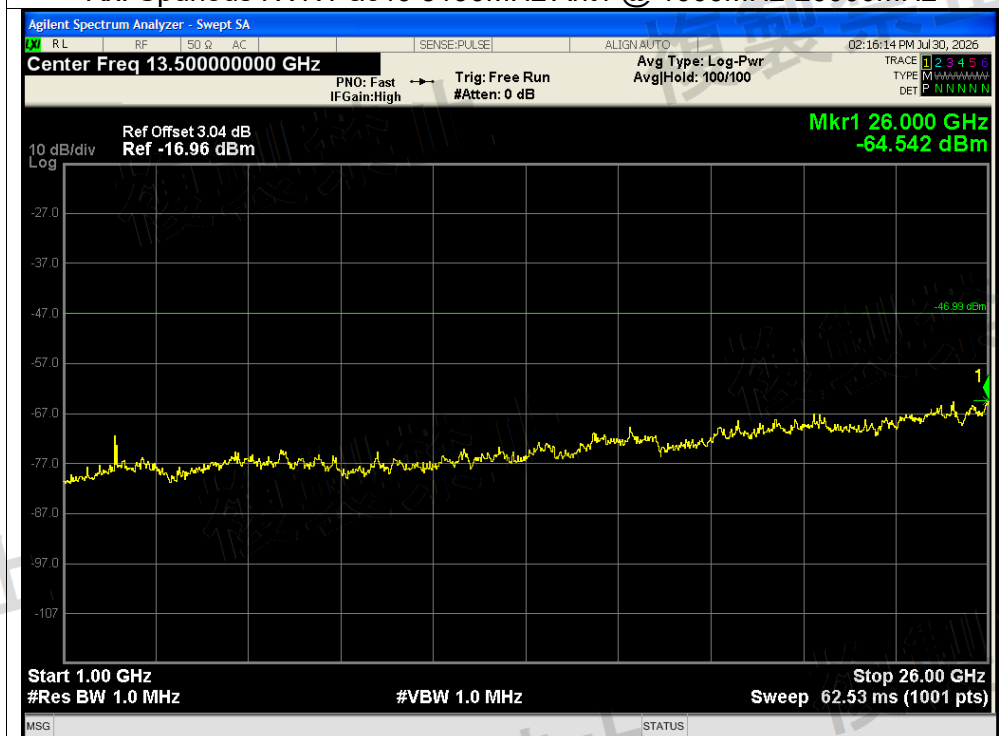




Rx. Spurious NVNT ac40 5190MHz Ant1 @ 30MHz-1000MHz

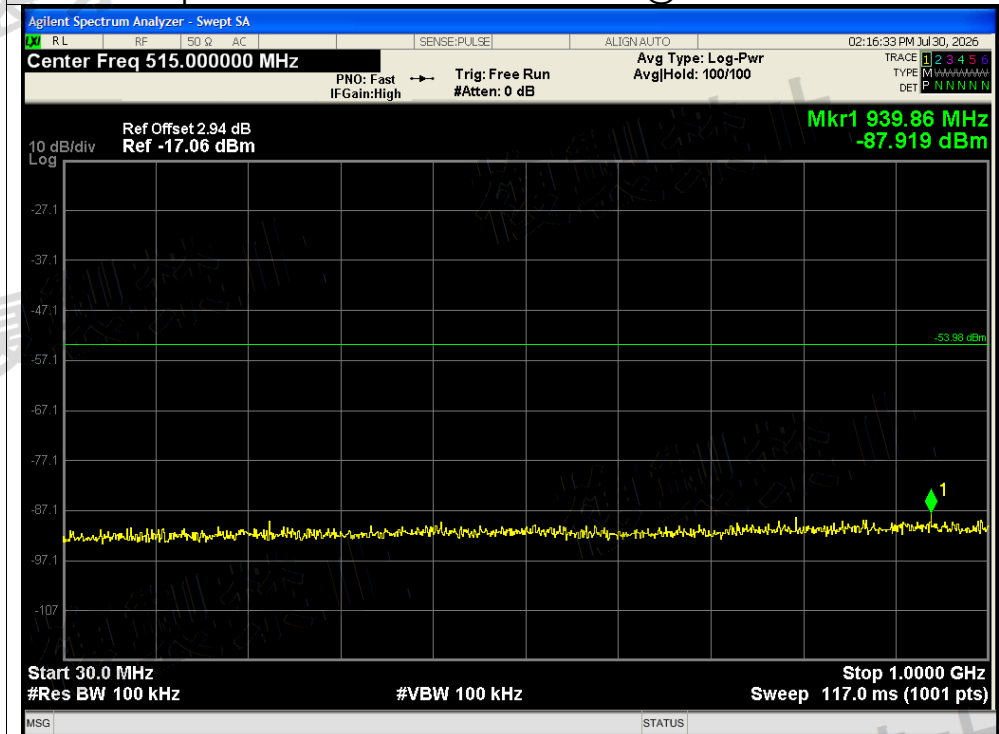


Rx. Spurious NVNT ac40 5190MHz Ant1 @ 1000MHz-26000MHz

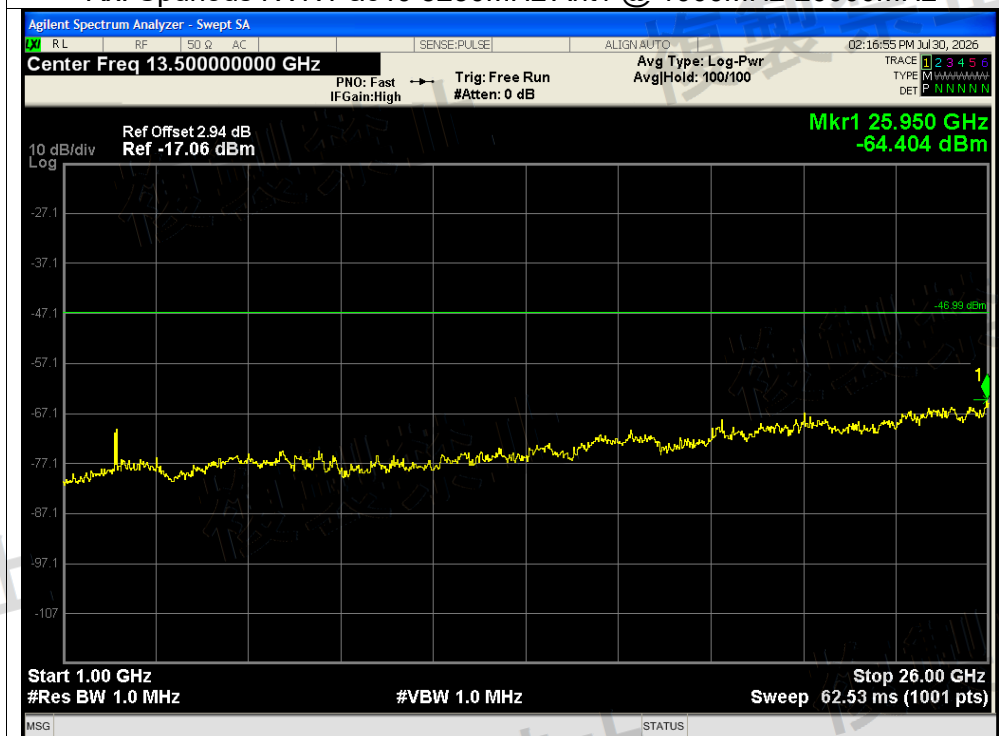




Rx. Spurious NVNT ac40 5230MHz Ant1 @ 30MHz-1000MHz

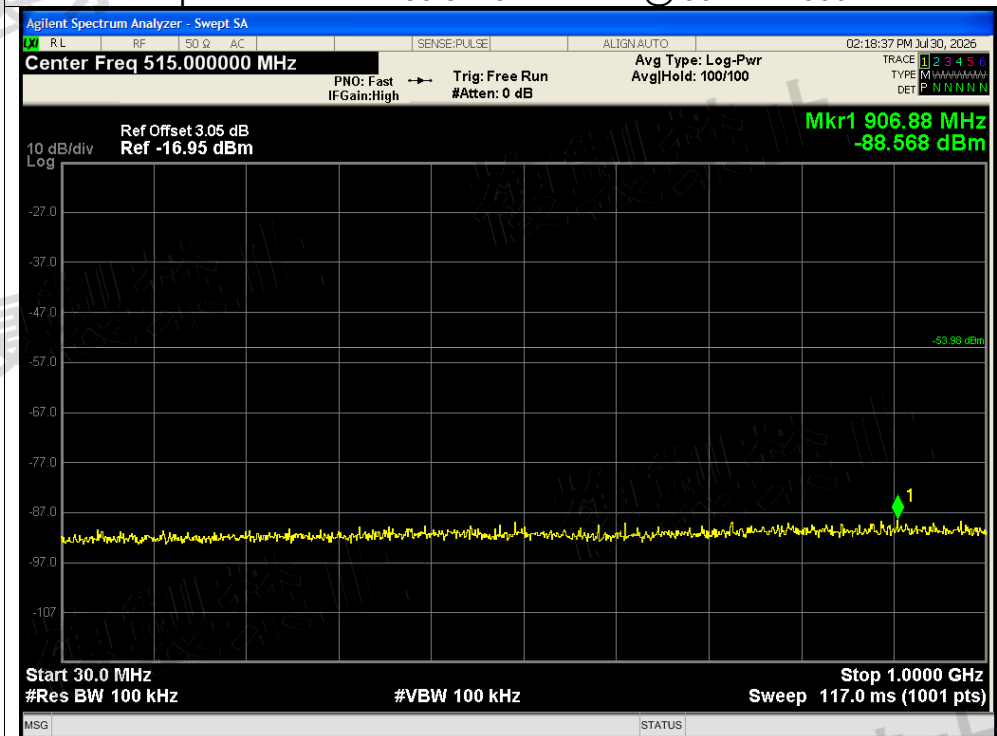


Rx. Spurious NVNT ac40 5230MHz Ant1 @ 1000MHz-26000MHz





Rx. Spurious NVNT ac80 5210MHz Ant1 @ 30MHz-1000MHz

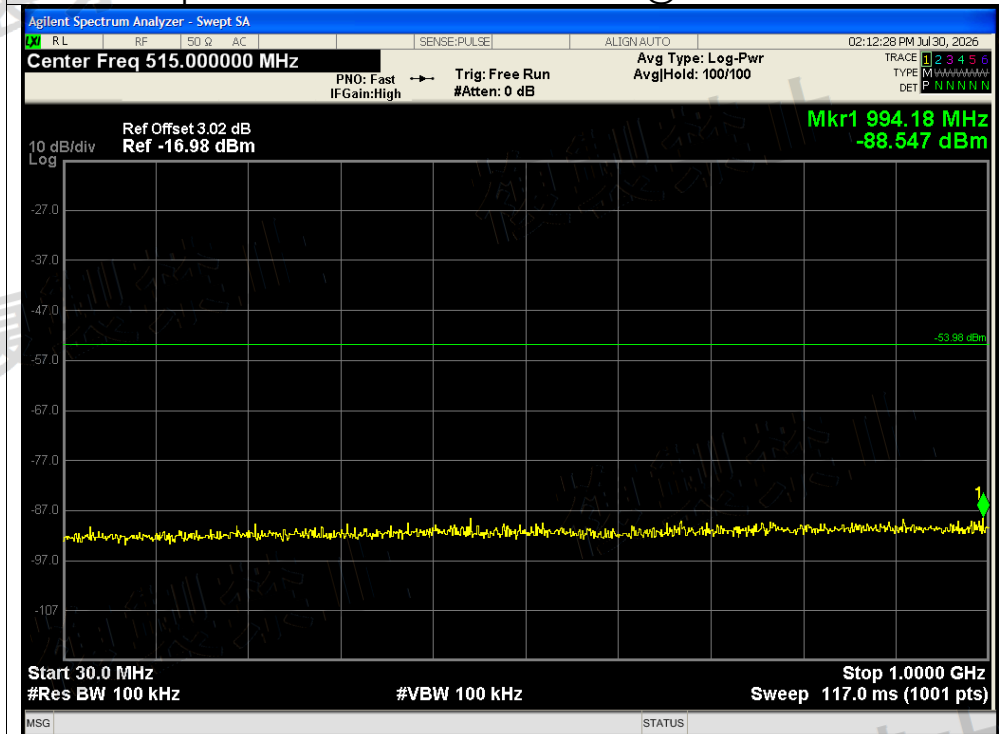


Rx. Spurious NVNT ac80 5210MHz Ant1 @ 1000MHz-26000MHz

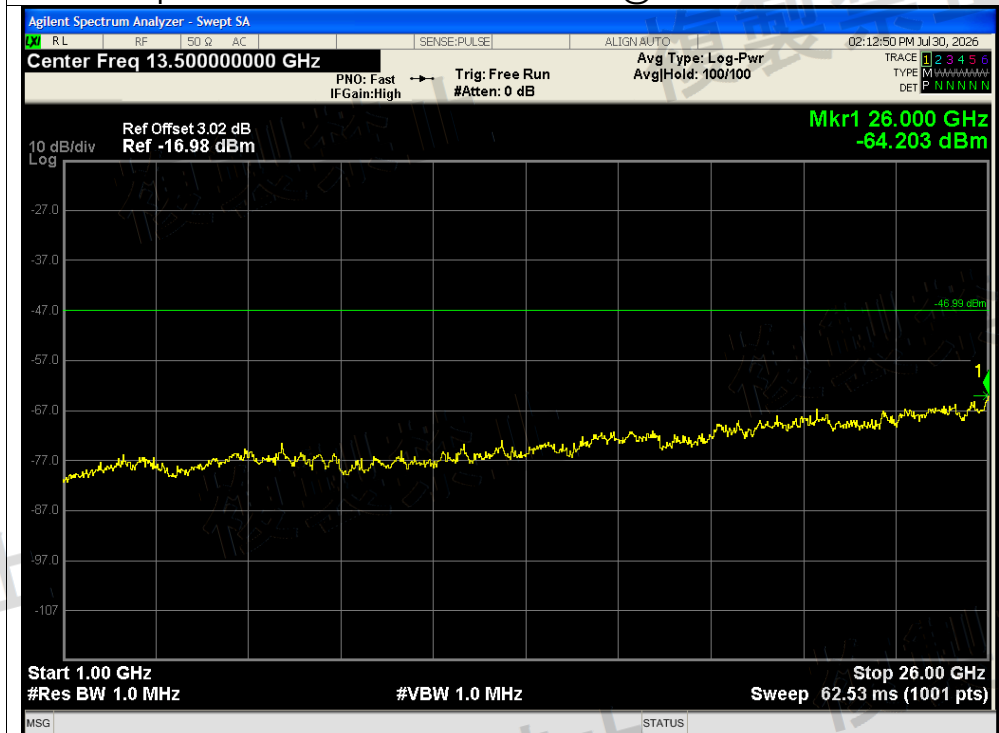




Rx. Spurious NVNT ax20 5180MHz Ant1 @ 30MHz-1000MHz

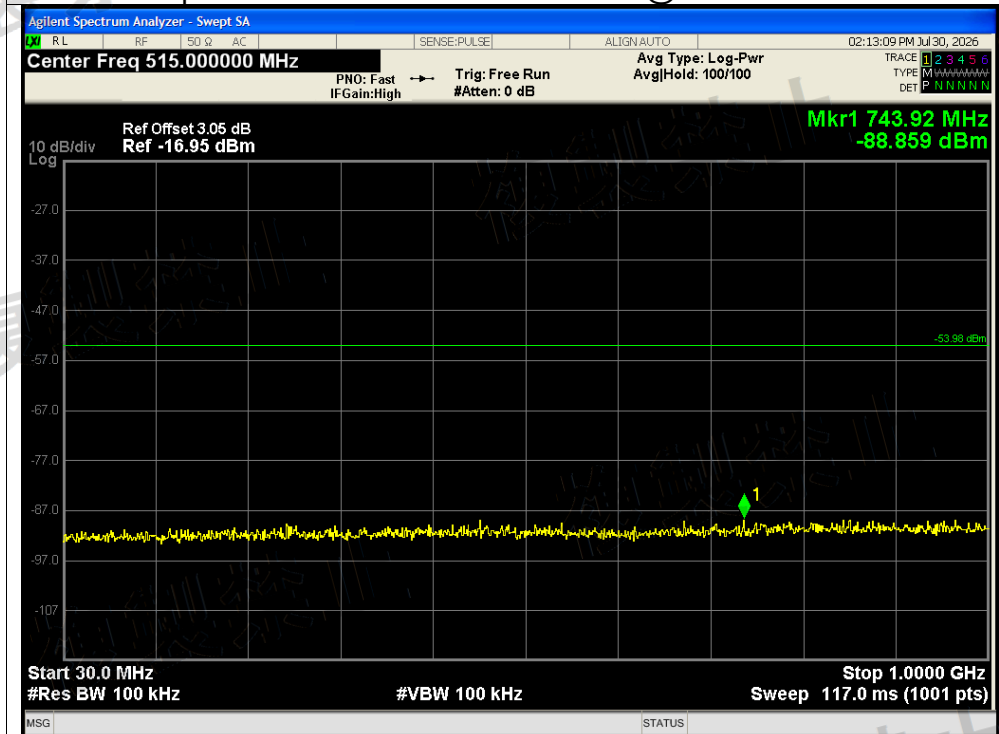


Rx. Spurious NVNT ax20 5180MHz Ant1 @ 1000MHz-26000MHz

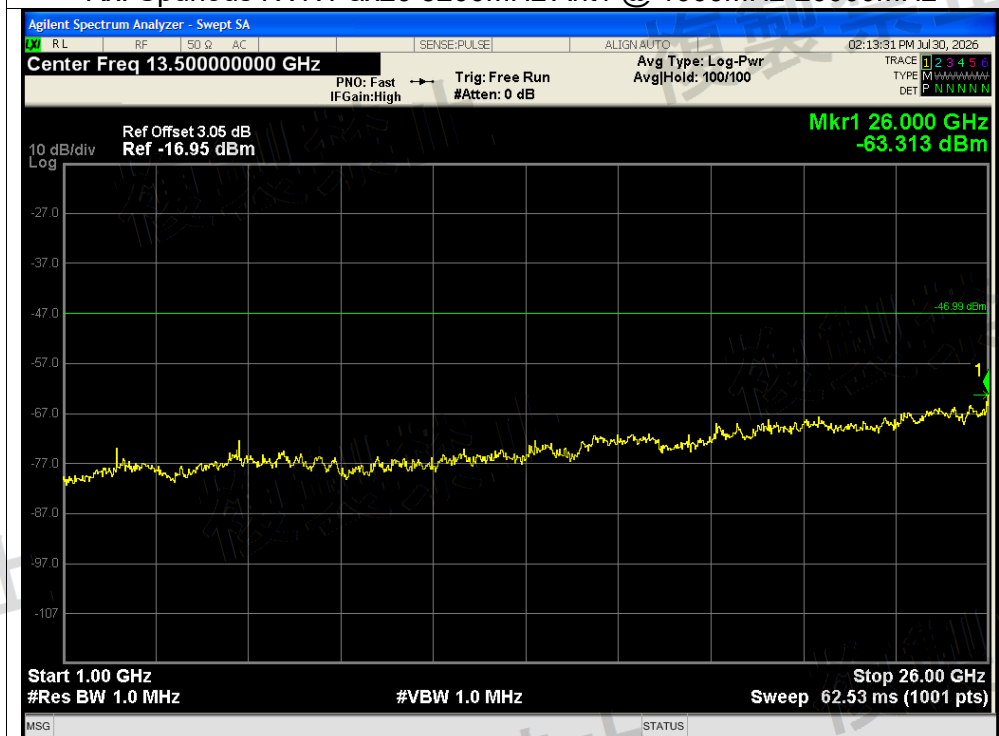




Rx. Spurious NVNT ax20 5200MHz Ant1 @ 30MHz-1000MHz

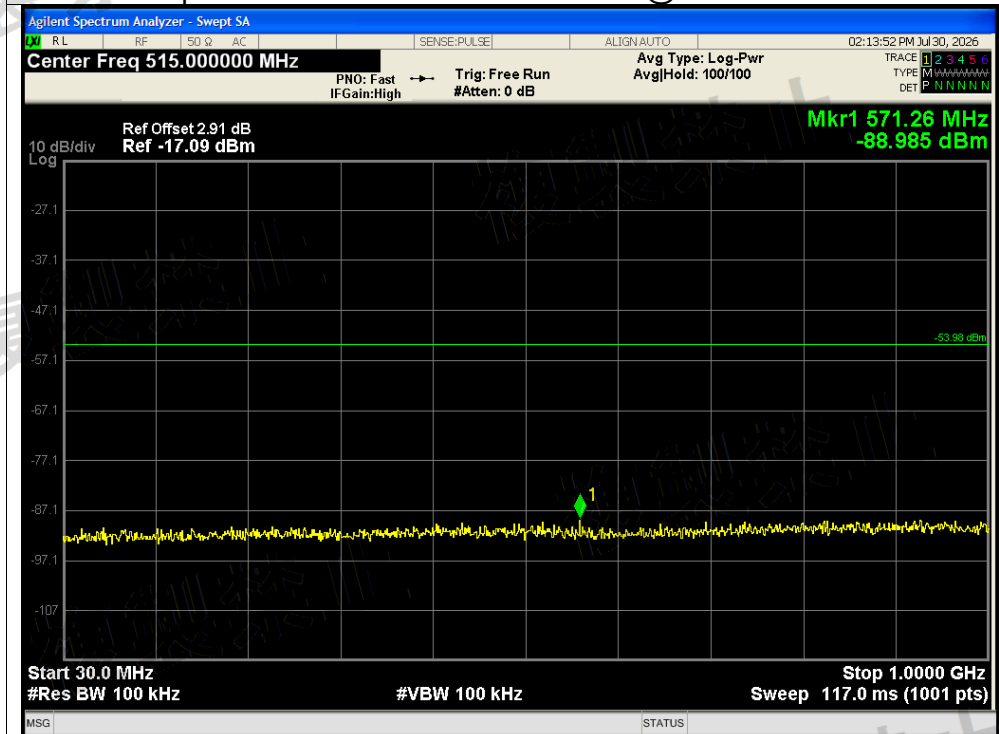


Rx. Spurious NVNT ax20 5200MHz Ant1 @ 1000MHz-26000MHz

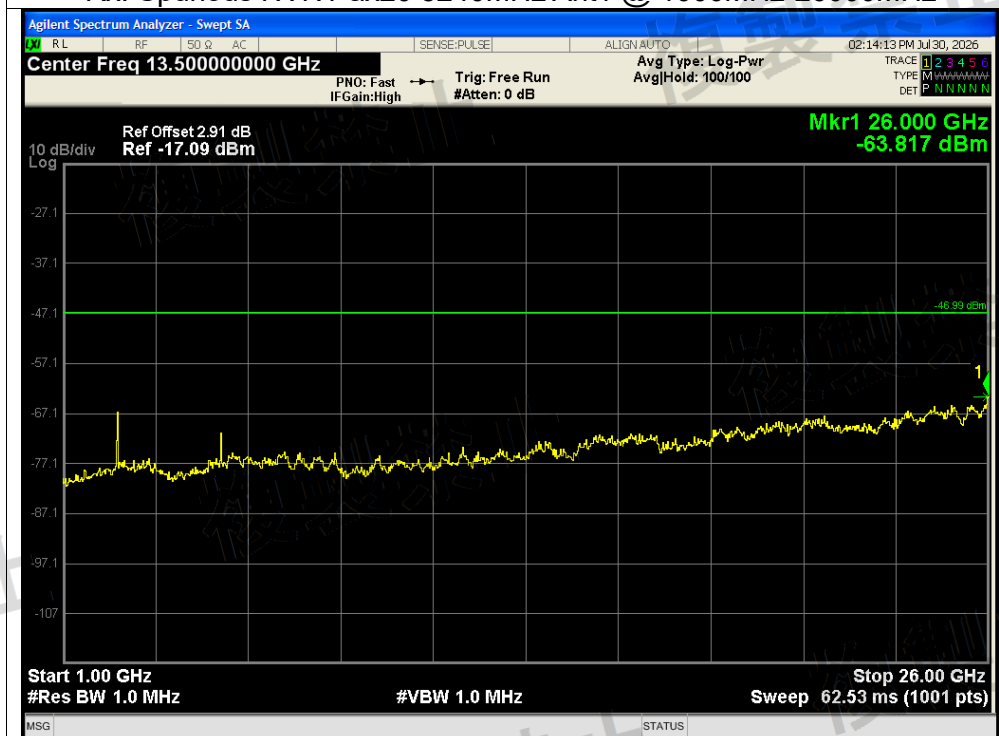




Rx. Spurious NVNT ax20 5240MHz Ant1 @ 30MHz-1000MHz

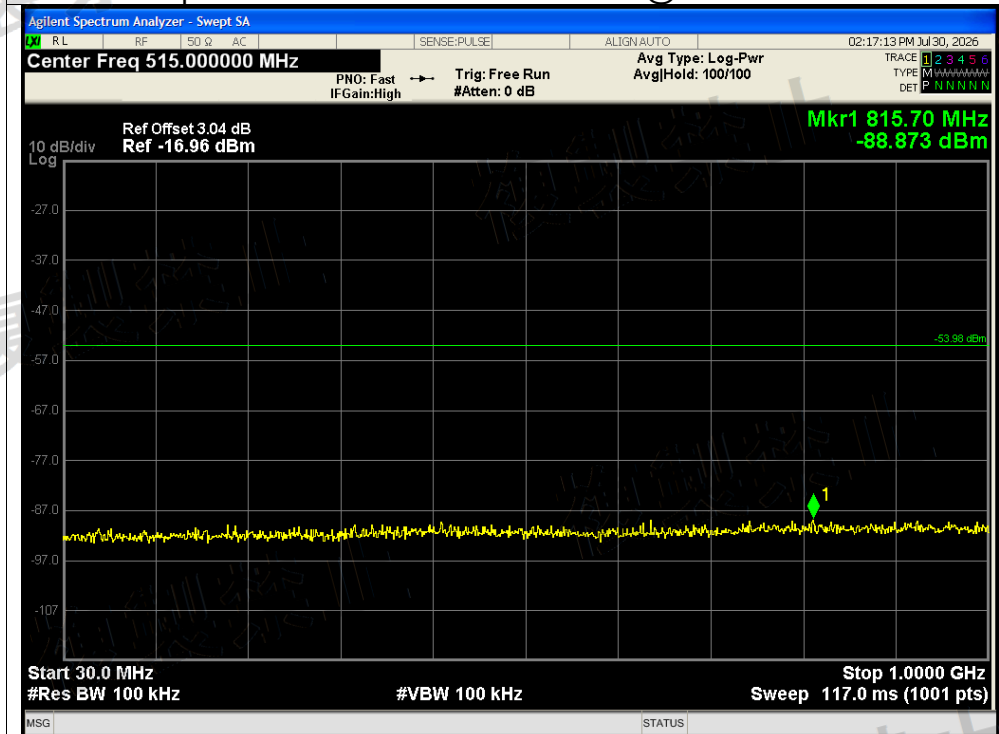


Rx. Spurious NVNT ax20 5240MHz Ant1 @ 1000MHz-26000MHz

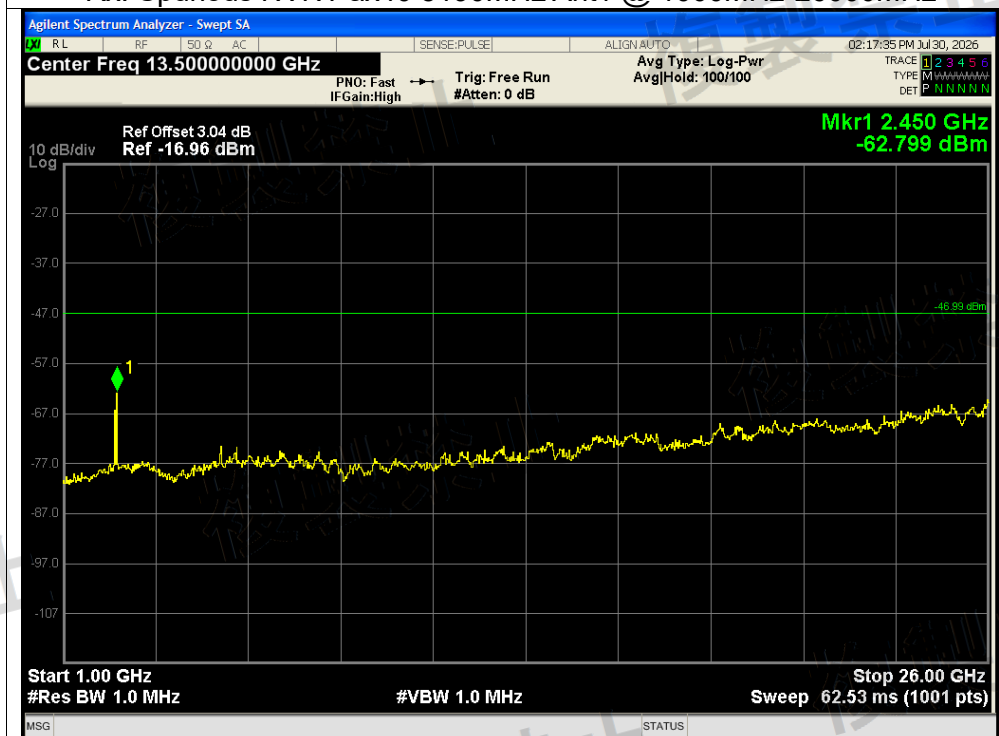




Rx. Spurious NVNT ax40 5190MHz Ant1 @ 30MHz-1000MHz

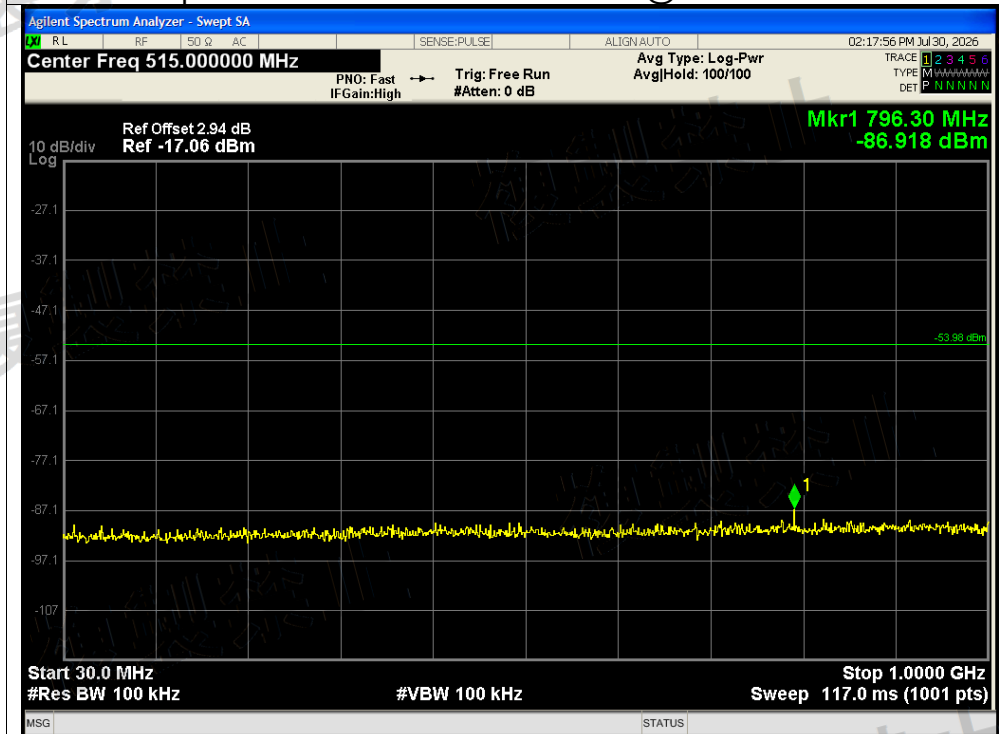


Rx. Spurious NVNT ax40 5190MHz Ant1 @ 1000MHz-26000MHz

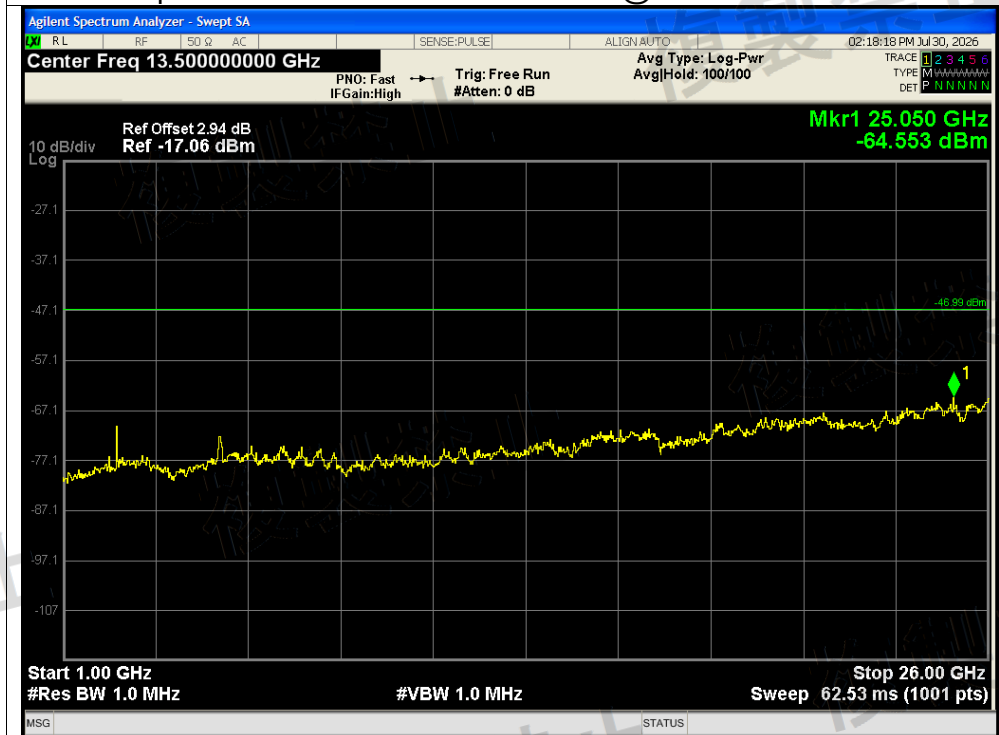




Rx. Spurious NVNT ax40 5230MHz Ant1 @ 30MHz-1000MHz

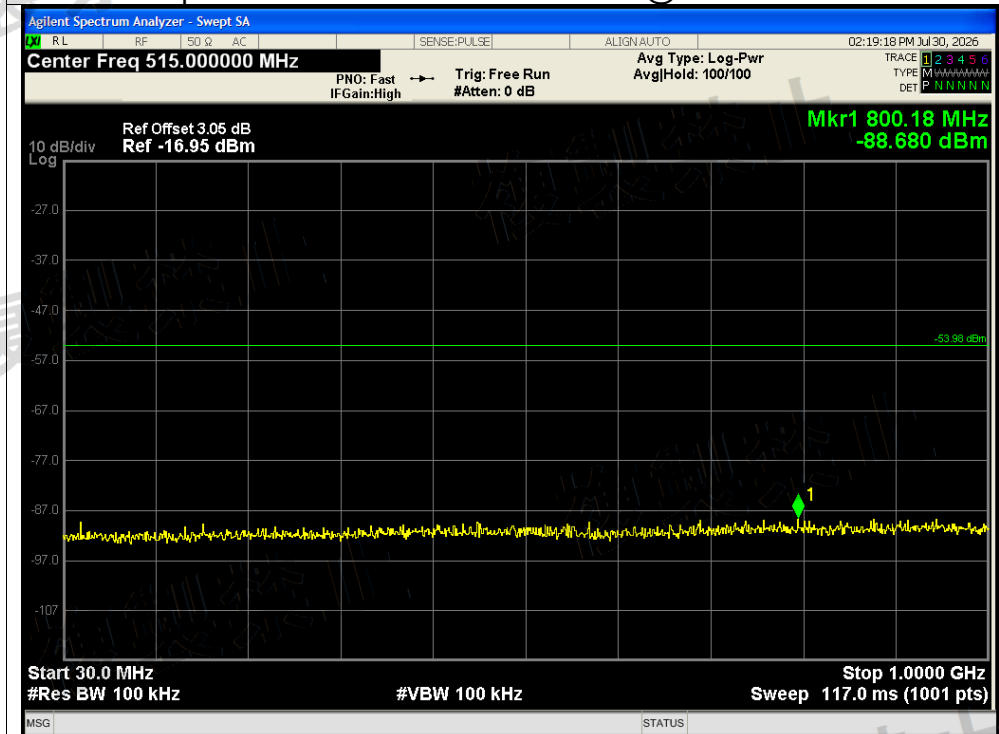


Rx. Spurious NVNT ax40 5230MHz Ant1 @ 1000MHz-26000MHz

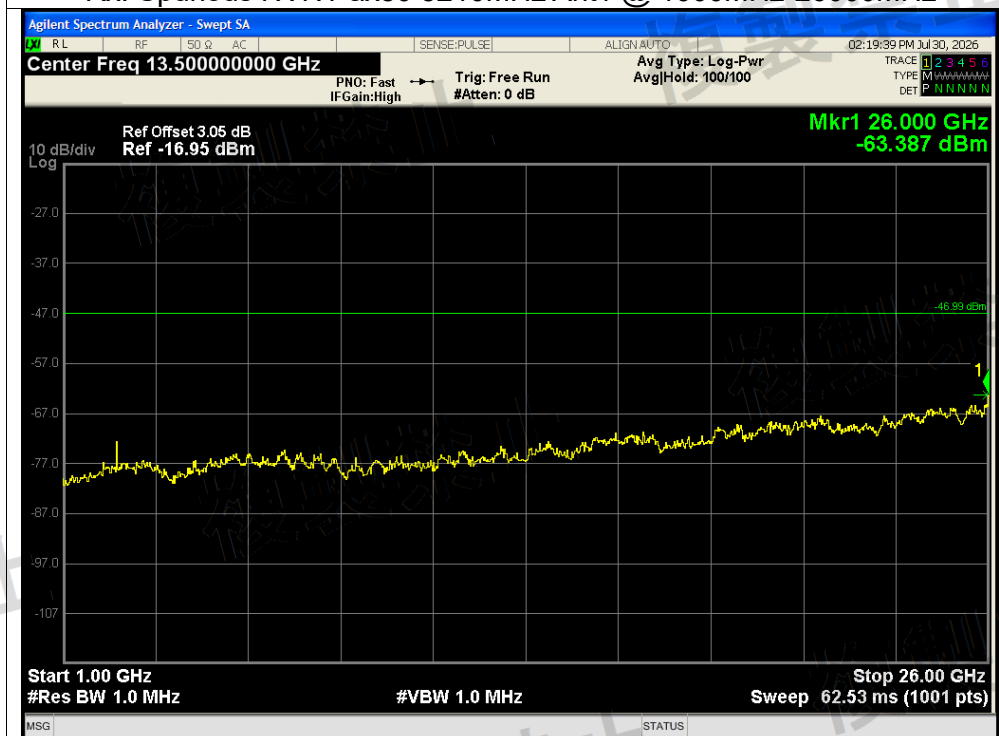




Rx. Spurious NVNT ax80 5210MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT ax80 5210MHz Ant1 @ 1000MHz-26000MHz



11 TRANSMISSION BURST LENGTH MEASUREMENT

LIMITS OF BURST LENGTH

Item	Limits
Transmission Burst	$\leq 8\text{ms}$

11.1 MEASURING INSTRUMENTS

See list of measuring instruments of this test report.

11.2 TEST PROCEDURES

- Setting of SA is following as: RBW: 1MHz/VBW:1MHz /Sweep Mode:Single sweep/Detect mode: Positive peak/Zero Span I Sweet time: more than burst length.
- Measure the maximum time duration of one burst length.

11.3 TEST SETUP

Spectrum Analyzer



EUT

11.4 TEST DEVIATION

There is no deviation with the original standard.

11.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

11.6 TEST RESULT OF TRANSMISSION BURST LENGTH



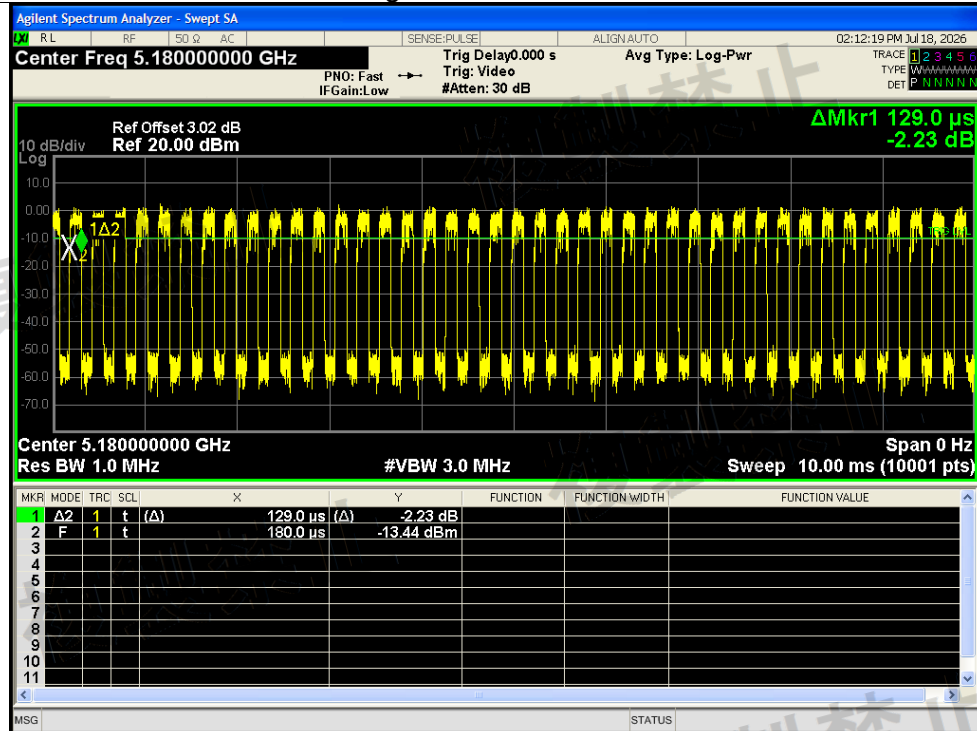
EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18,2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

Condition	Mode	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	5180	0.129	8	Pass
NVNT	a	5200	0.128	8	Pass
NVNT	a	5240	0.129	8	Pass
NVNT	n20	5180	0.144	8	Pass
NVNT	n20	5200	0.144	8	Pass
NVNT	n20	5240	0.145	8	Pass
NVNT	n40	5190	0.12	8	Pass
NVNT	n40	5230	0.121	8	Pass
NVNT	ac20	5180	0.152	8	Pass
NVNT	ac20	5200	0.152	8	Pass
NVNT	ac20	5240	0.152	8	Pass
NVNT	ac40	5190	0.129	8	Pass
NVNT	ac40	5230	0.129	8	Pass
NVNT	ac80	5210	0.105	8	Pass
NVNT	ax20	5180	0.323	8	Pass
NVNT	ax20	5200	0.323	8	Pass
NVNT	ax20	5240	0.324	8	Pass
NVNT	ax40	5190	0.31	8	Pass
NVNT	ax40	5230	0.31	8	Pass
NVNT	ax80	5210	0.281	8	Pass

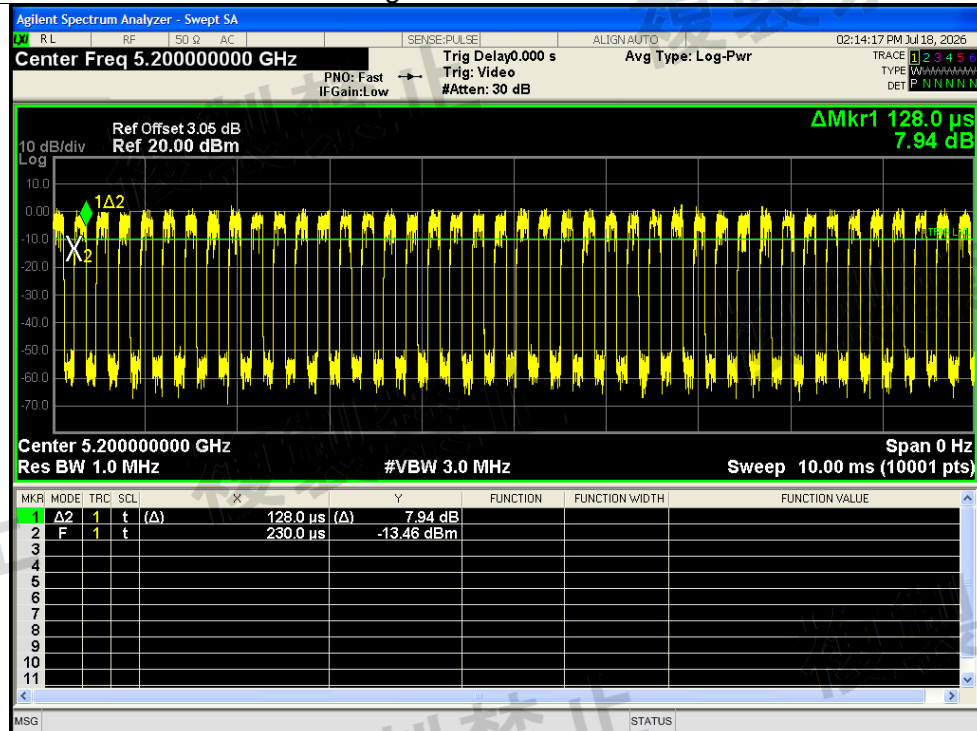


Test Graphs

Burst Length NVNT a 5180MHz Ant1

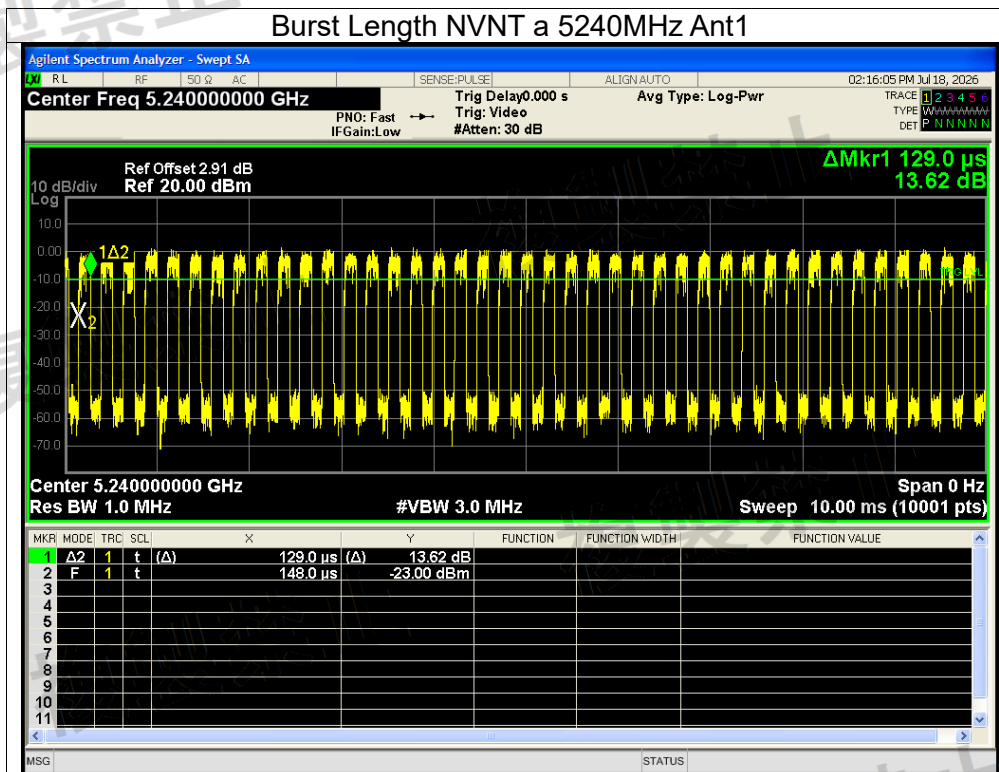


Burst Length NVNT a 5200MHz Ant1

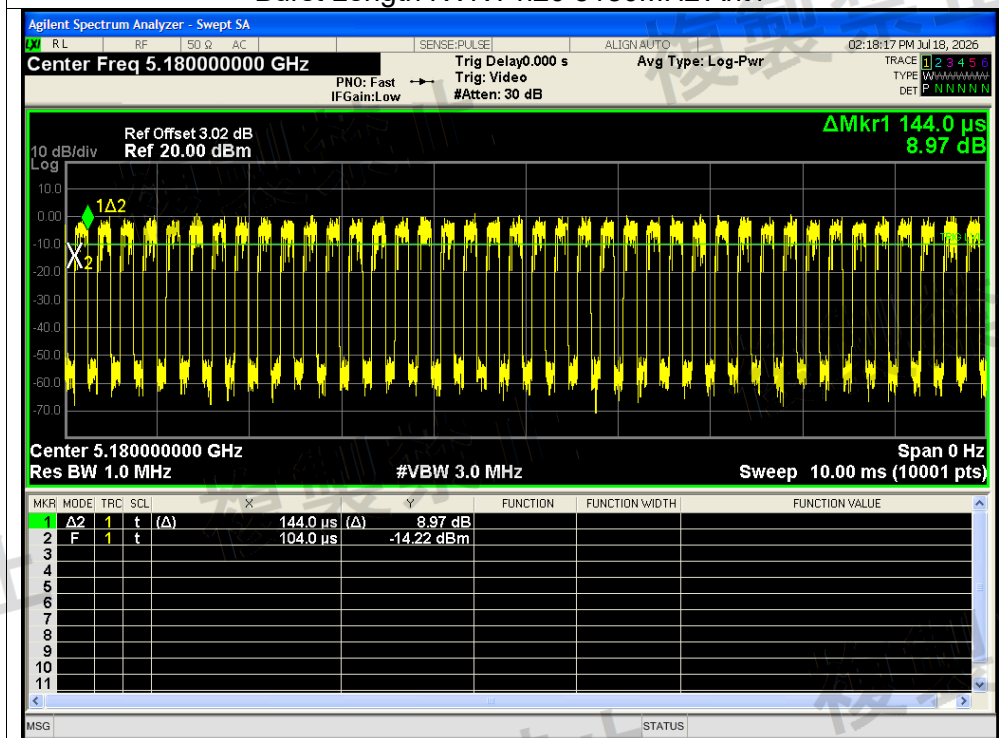




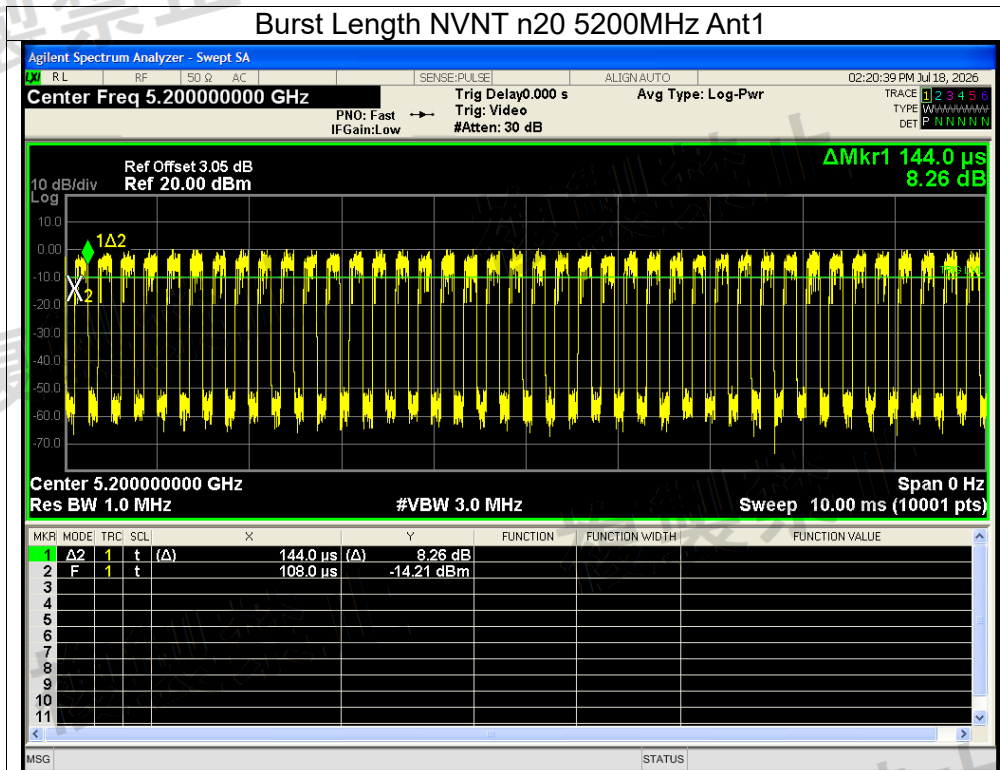
Burst Length NVNT a 5240MHz Ant1



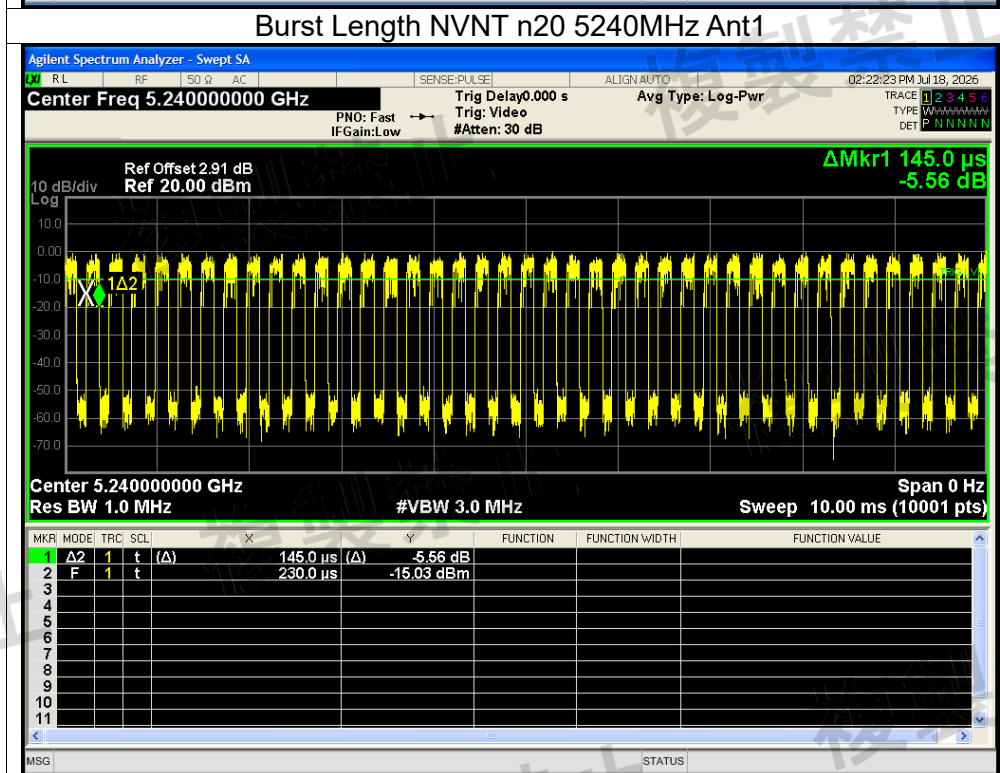
Burst Length NVNT n20 5180MHz Ant1



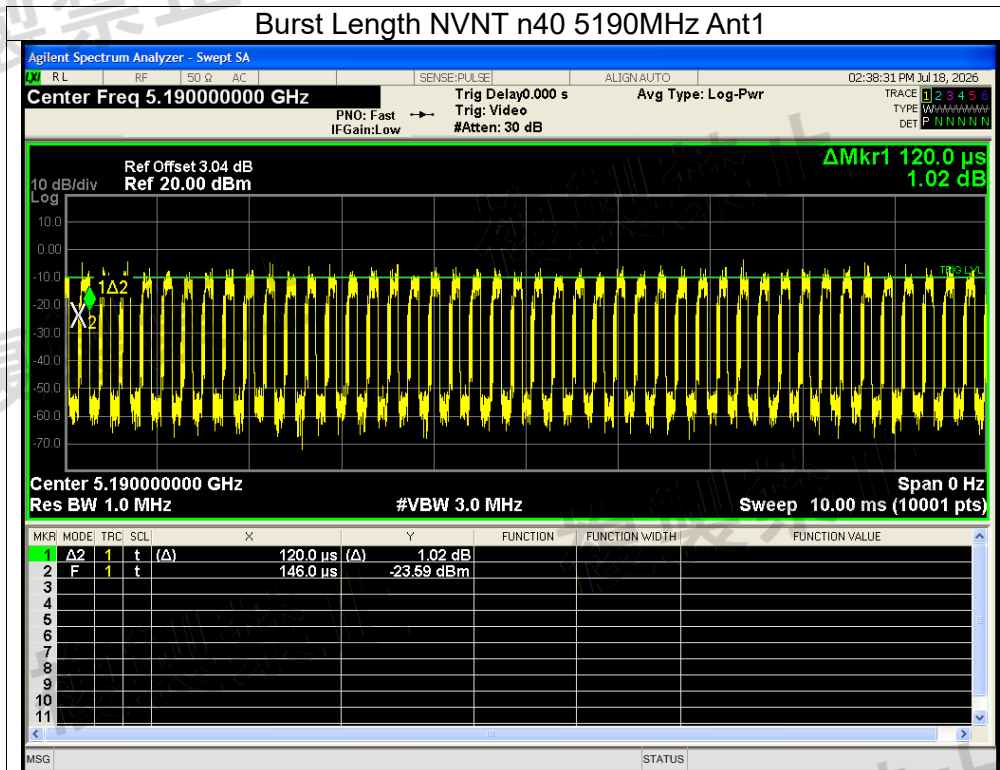
Burst Length NVNT n20 5200MHz Ant1



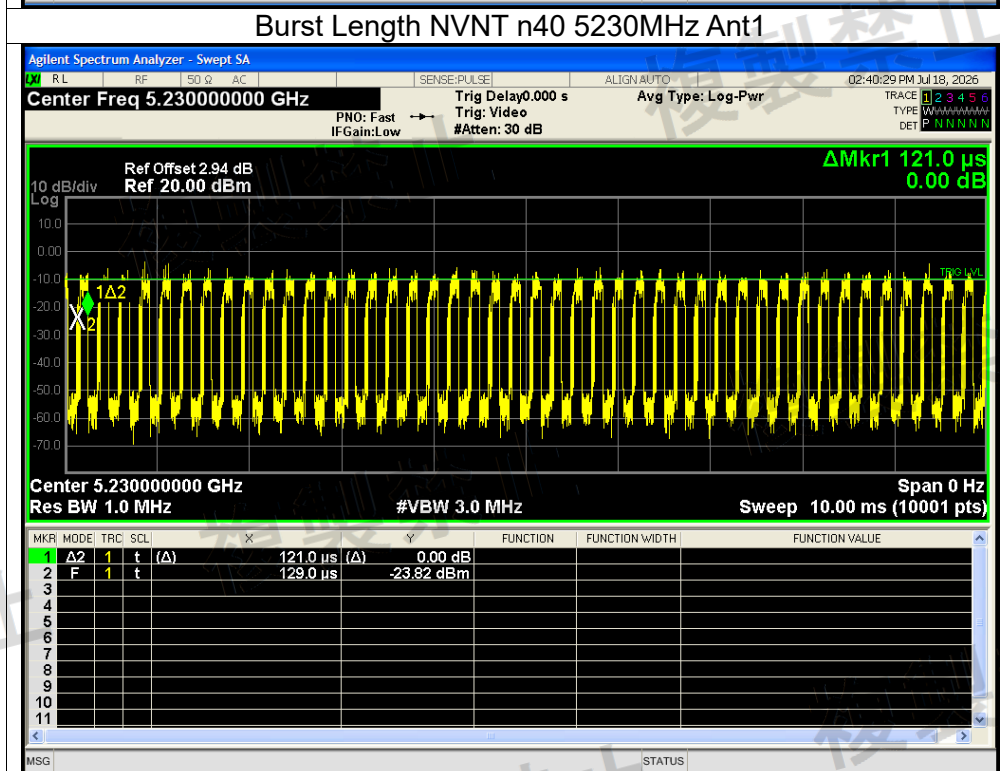
Burst Length NVNT n20 5240MHz Ant1



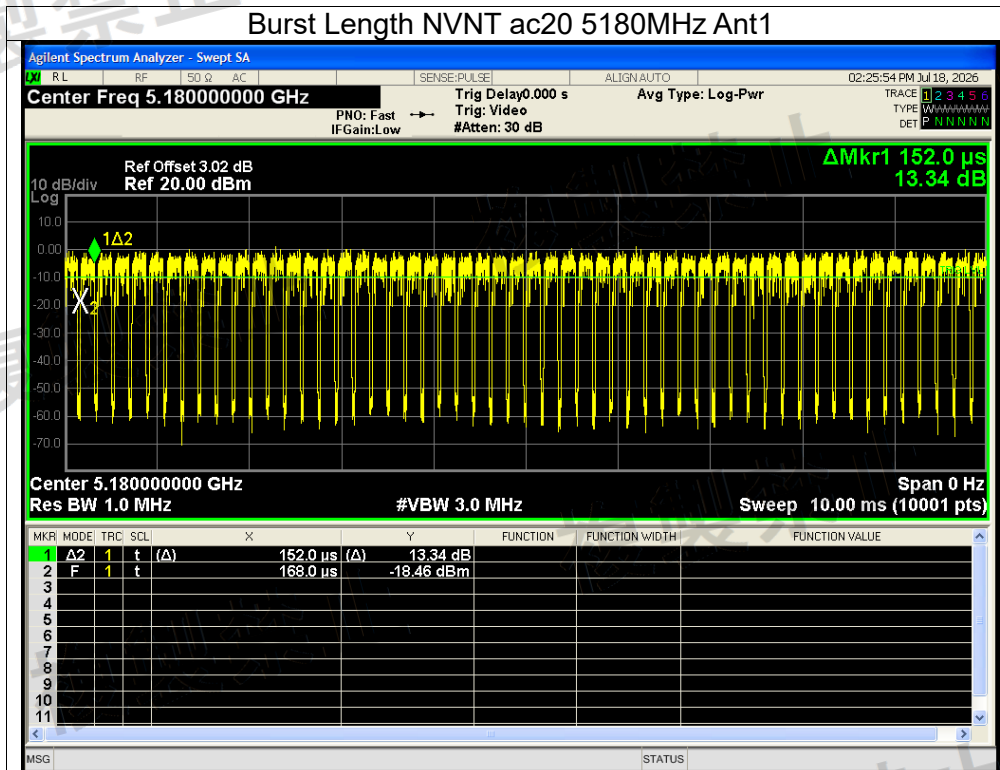
Burst Length NVNT n40 5190MHz Ant1



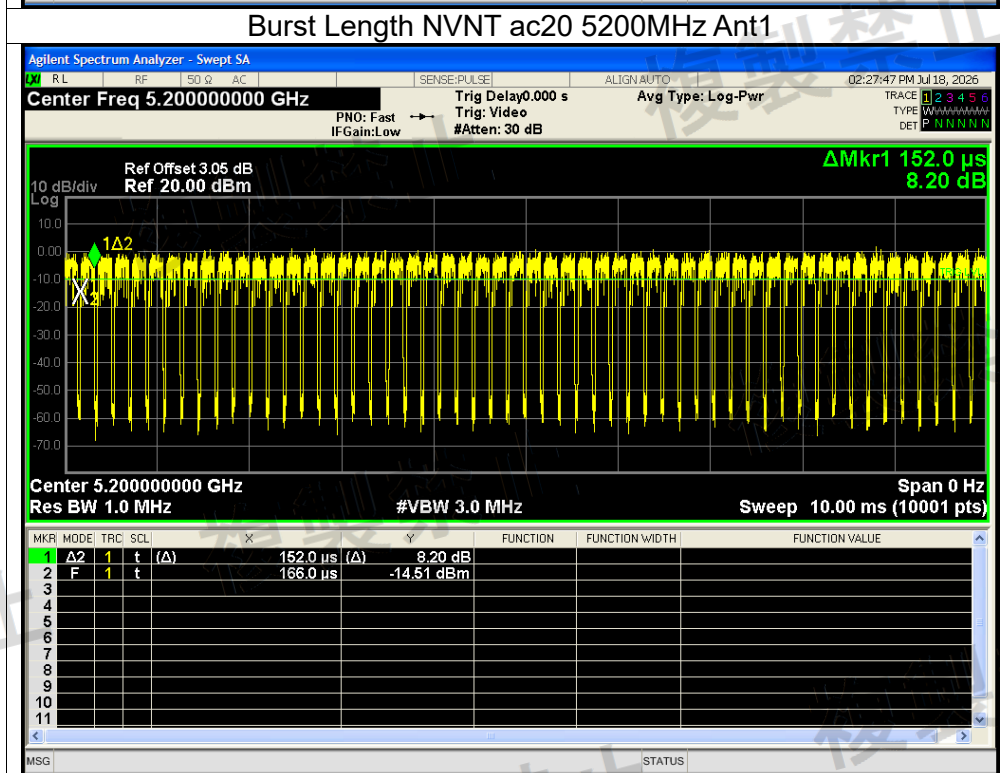
Burst Length NVNT n40 5230MHz Ant1



Burst Length NVNT ac20 5180MHz Ant1

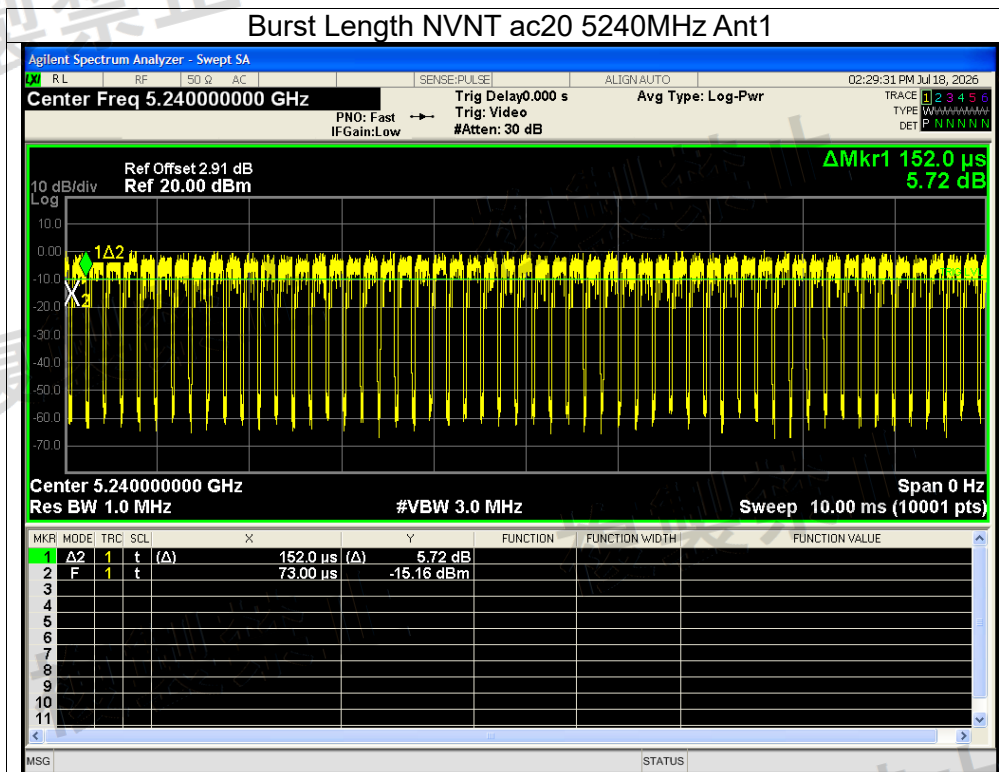


Burst Length NVNT ac20 5200MHz Ant1

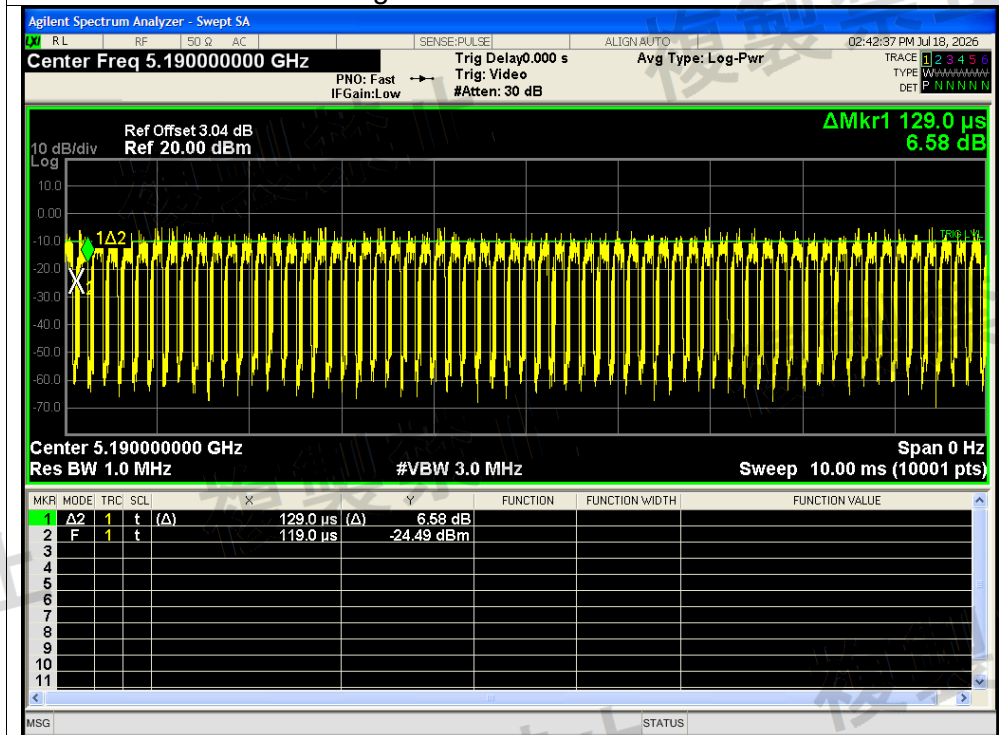




Burst Length NVNT ac20 5240MHz Ant1

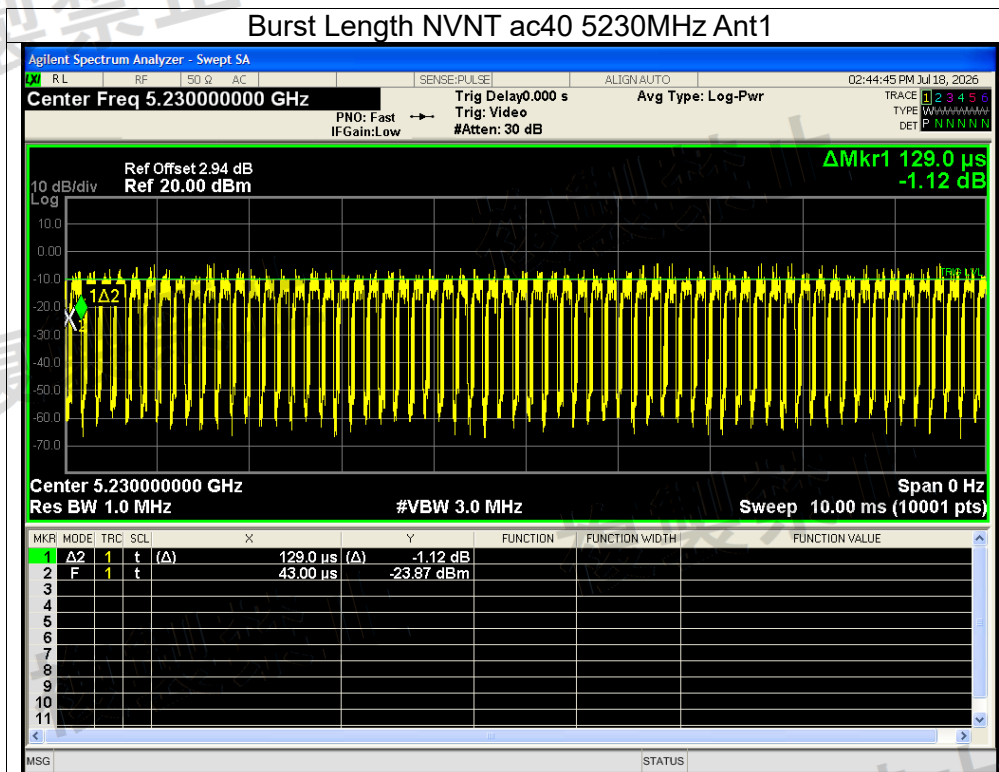


Burst Length NVNT ac40 5190MHz Ant1

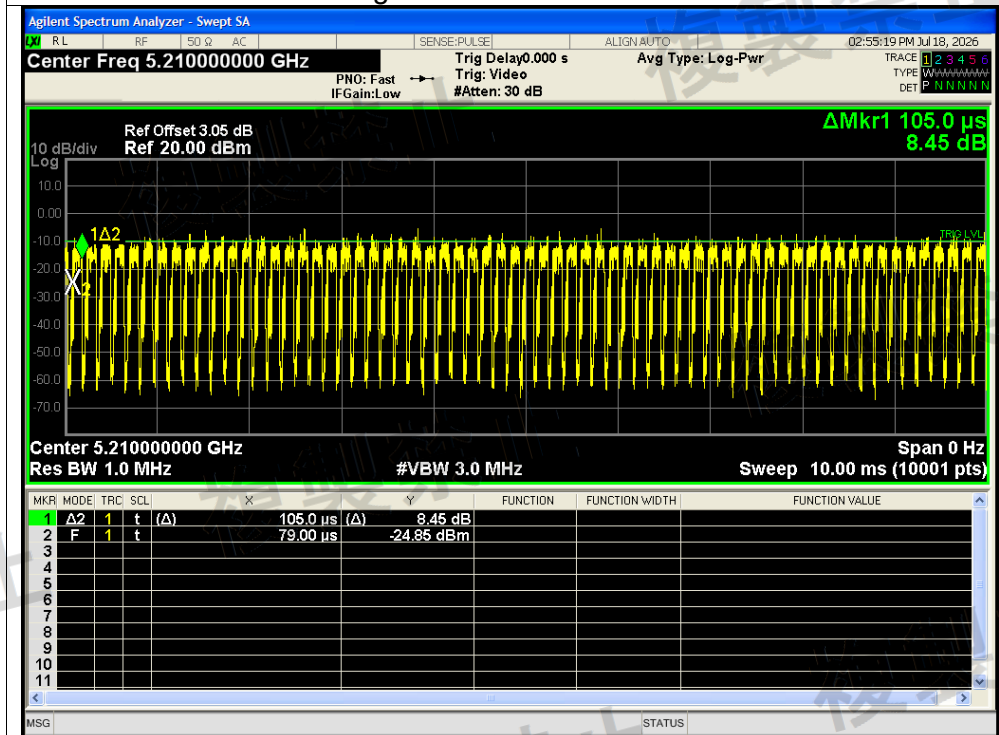




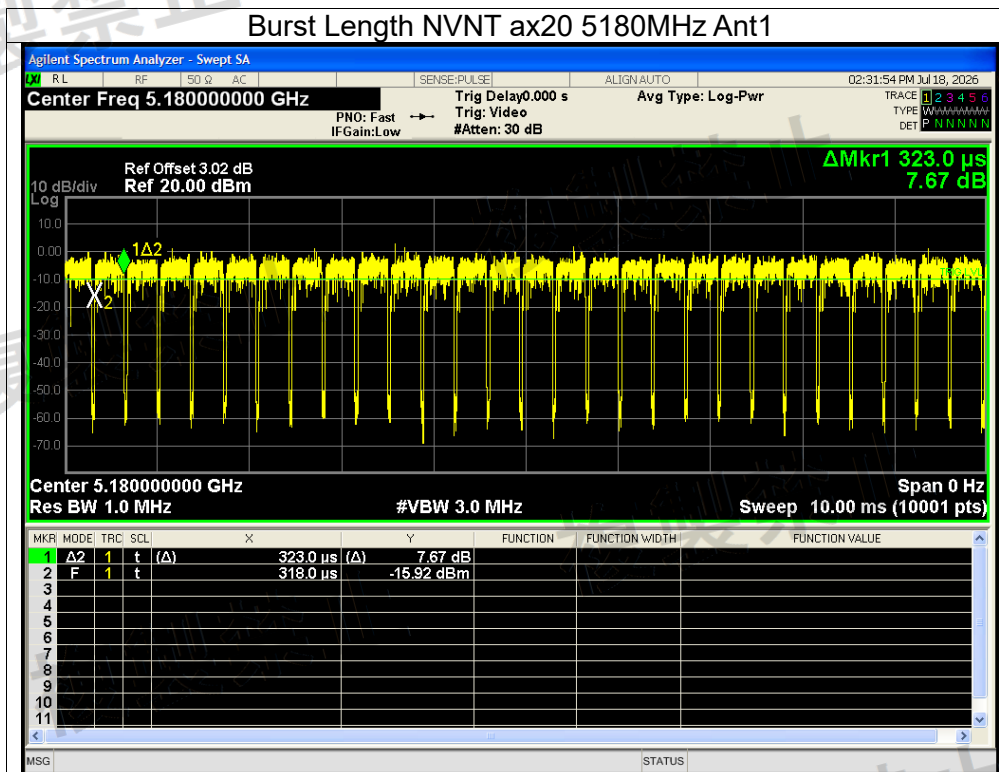
Burst Length NVNT ac40 5230MHz Ant1



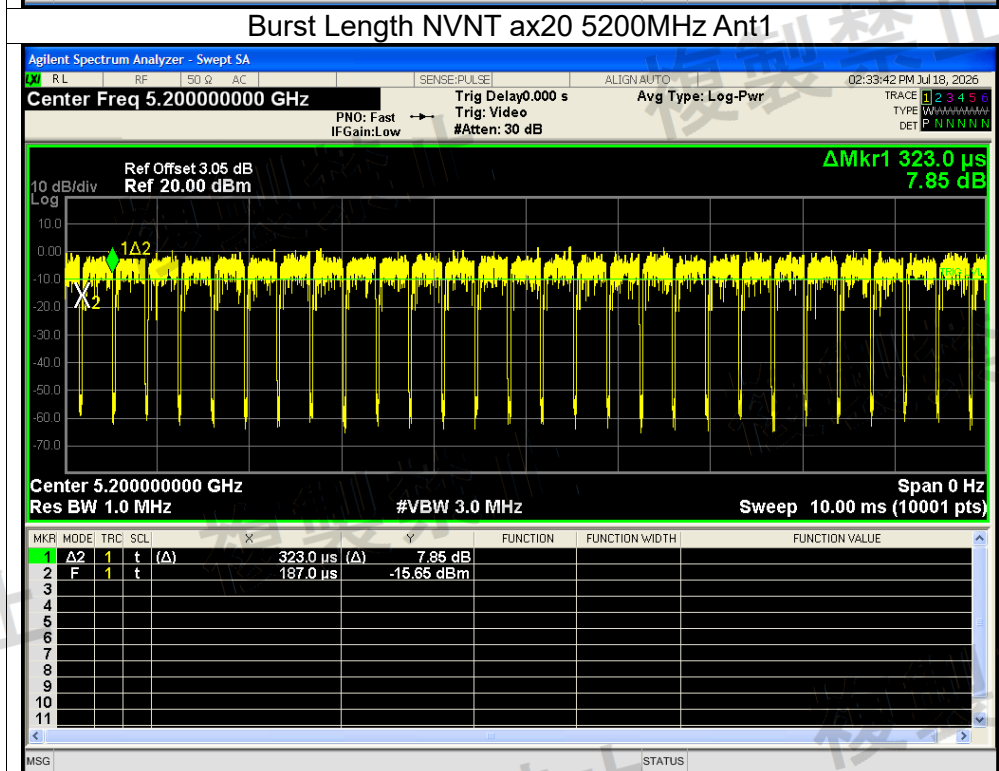
Burst Length NVNT ac80 5210MHz Ant1



Burst Length NVNT ax20 5180MHz Ant1

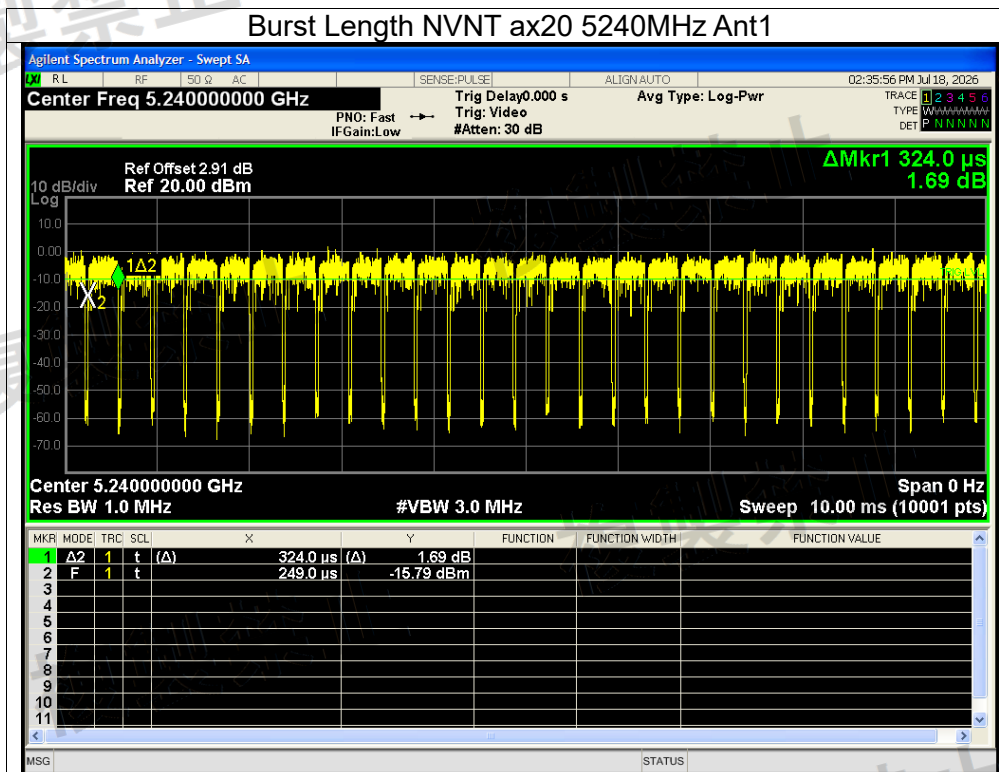


Burst Length NVNT ax20 5200MHz Ant1

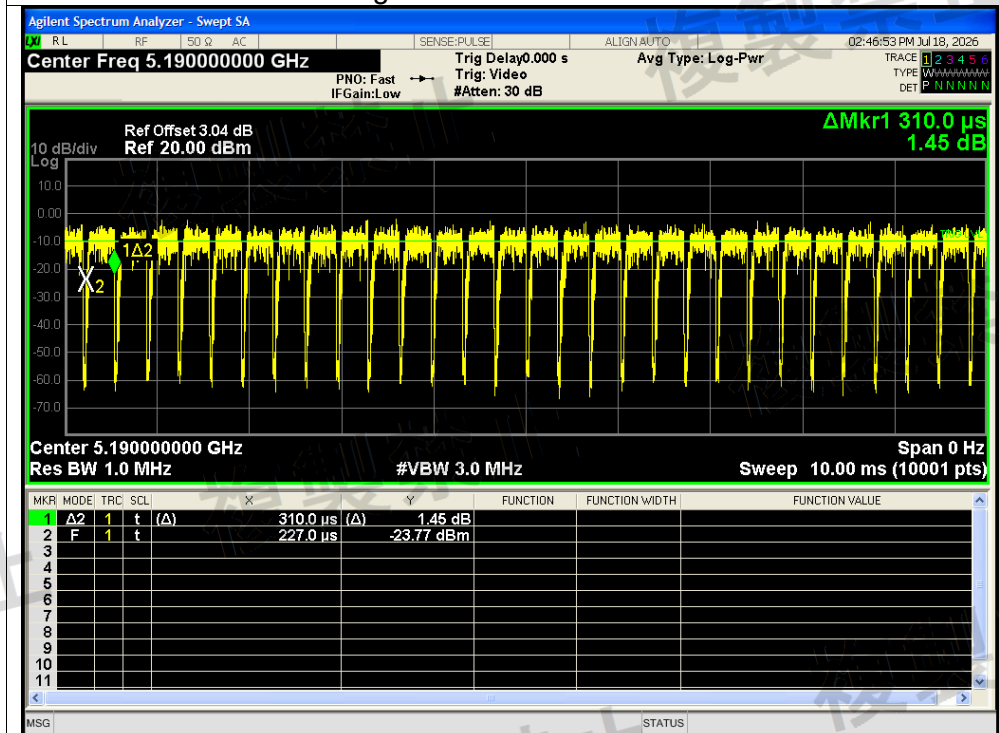




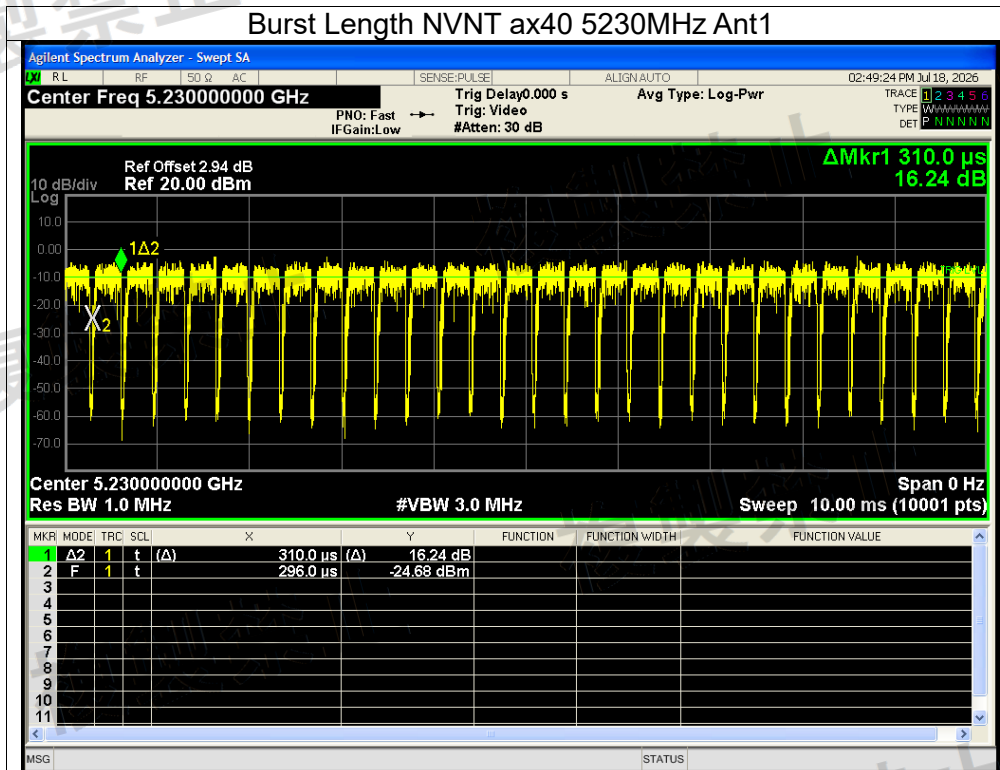
Burst Length NVNT ax20 5240MHz Ant1



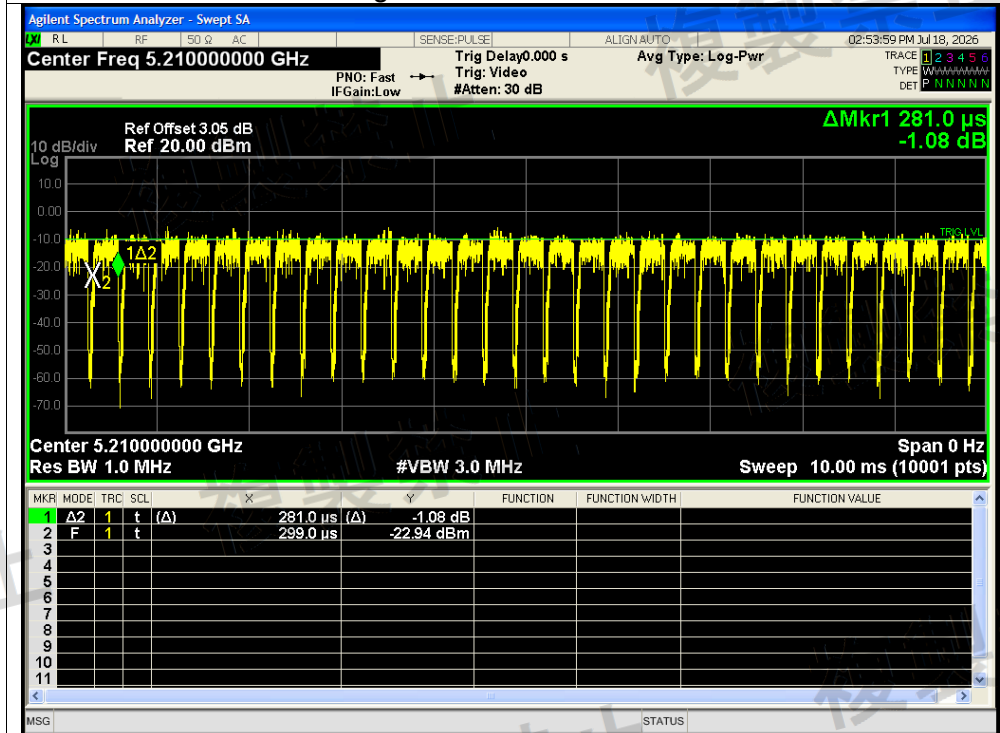
Burst Length NVNT ax40 5190MHz Ant1



Burst Length NVNT ax40 5230MHz Ant1



Burst Length NVNT ax80 5210MHz Ant1



12. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

12.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

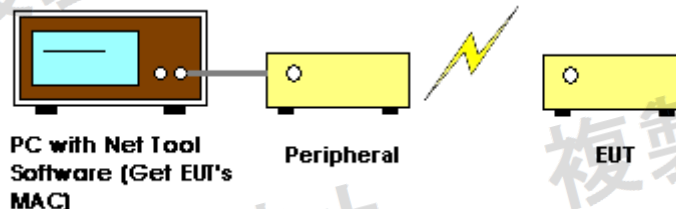
12.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

12.3 TEST PROCEDURES

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

12.4 TEST SETUP LAYOUT



12.5 TEST DEVIATION

There is no deviation with the original standard.

12.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

12.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

EUT:	PixelDarts	Model No.:	DN-PD1
Temperature:	25°C	Test Date:	Jul. 18, 2026
Humidity:	55 % RH	Tested by:	Jack Li
Atmospheric Pressure:	1013 mbar	Test Voltage	Normal Voltage

MAC Address: 54:78:B1:66:C5:00

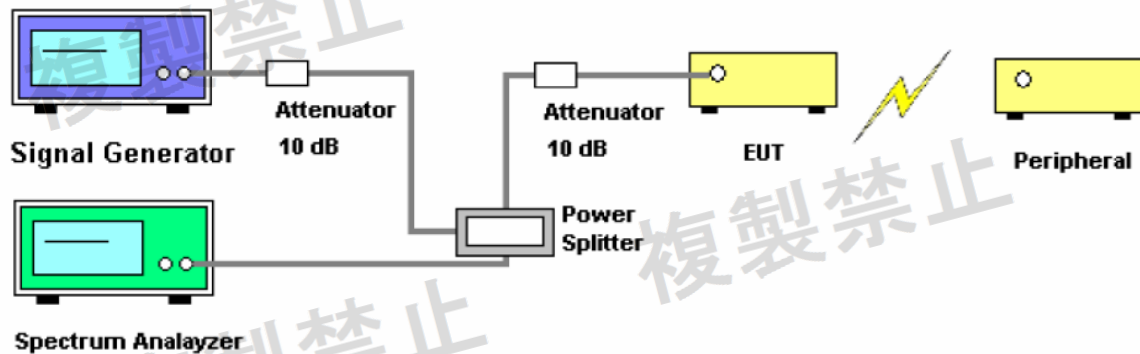
13 CARRIER SENSE CAPABILITY

Limit

EUT stop RF transmission signal after carrier inject to EUT

Test Procedure

Measurement System Diagram



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

Result:

Mode	Normal Voltage
802.11a	OK
802.11n20	OK
802.11 n40	OK
802.11ac20	OK
802.11 ac40	OK
802.11 ac80	OK
802.11ax20	OK
802.11 ax40	OK
802.11 ax80	OK

$\text{Pin} = 22.79 + G - 20 \cdot \log(\text{freq_MHz}) [\text{dBm}]$
 Limit: 100mw/m eirp
 Confirmed at -50dBm
 Result: OK



14. EUT TEST PHOTO

Measurement Photos

