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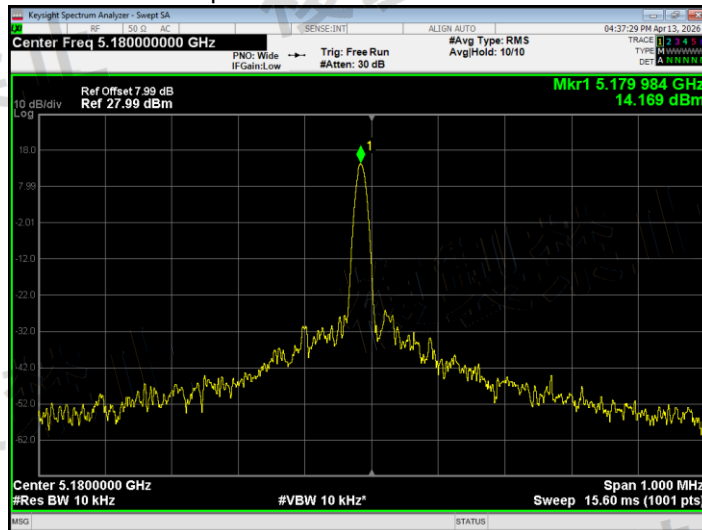
Telec WIFI5.2G

MIC 5.2G WIFI Test Data

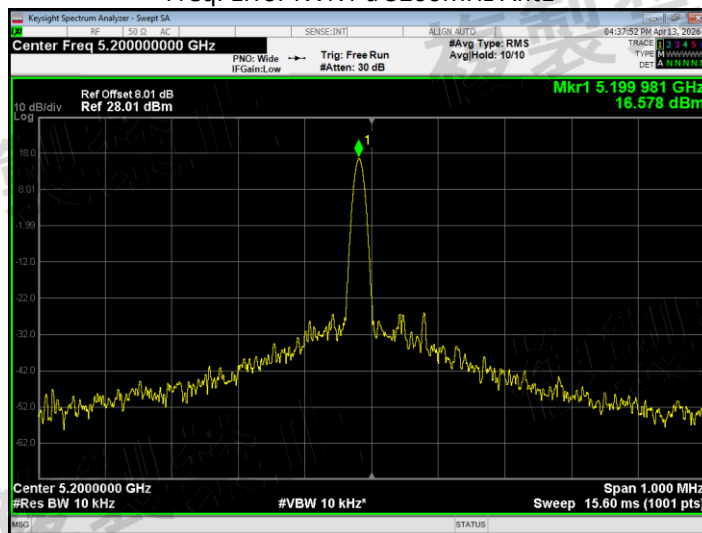
1. Frequency Tolerance

Condition	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	5180	Ant1	5179.984	-3.09	50	Pass
NVNT	5200	Ant1	5199.981	-3.65	50	Pass
NVNT	5240	Ant1	5239.977	-4.39	50	Pass
NVNT	5190	Ant1	5189.977	-4.43	50	Pass
NVNT	5230	Ant1	5229.976	-4.59	50	Pass

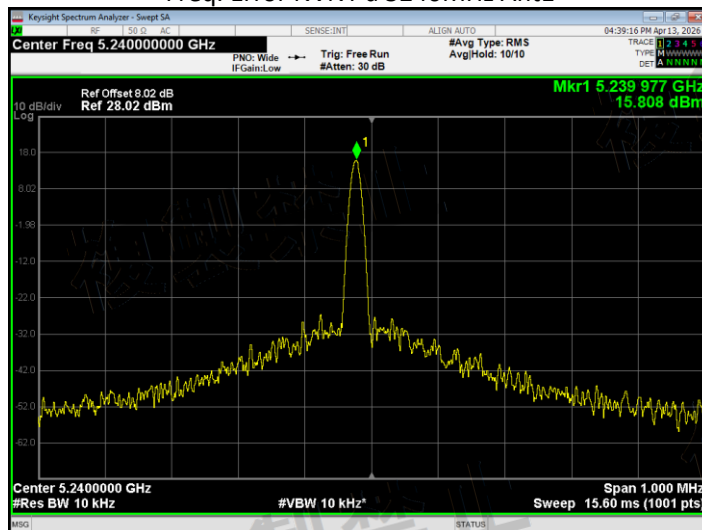
Freq. Error NVNT a 5180MHz Ant1



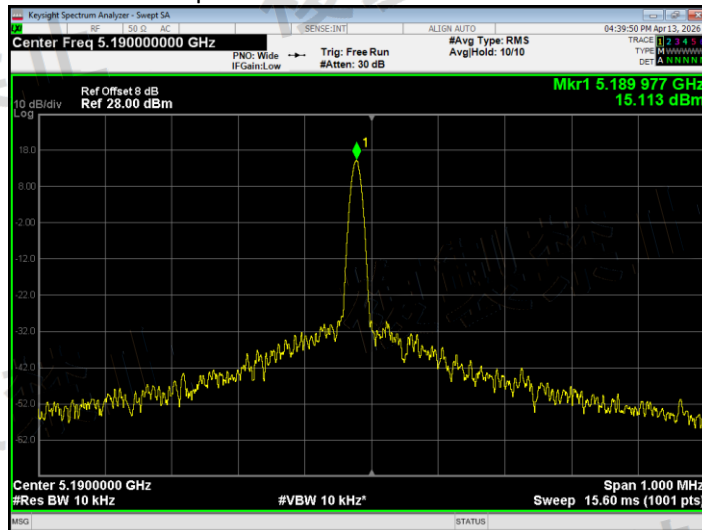
Freq. Error NVNT a 5200MHz Ant1



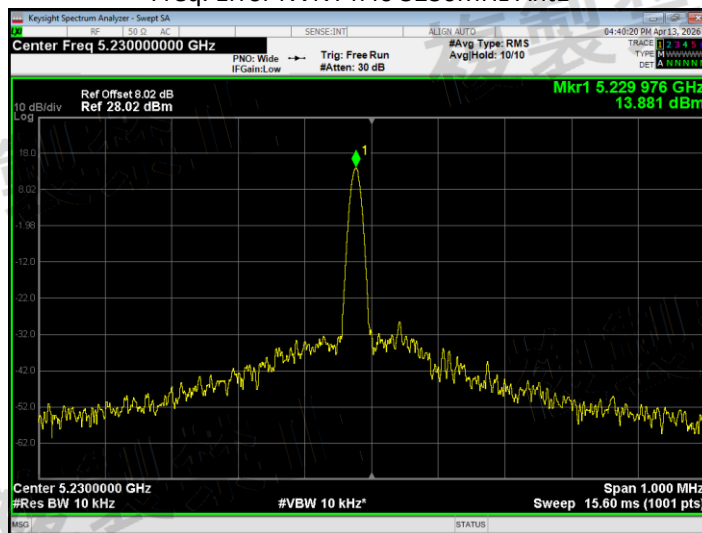
Freq. Error NVNT a 5240MHz Ant1



Freq. Error NVNT n40 5190MHz Ant1



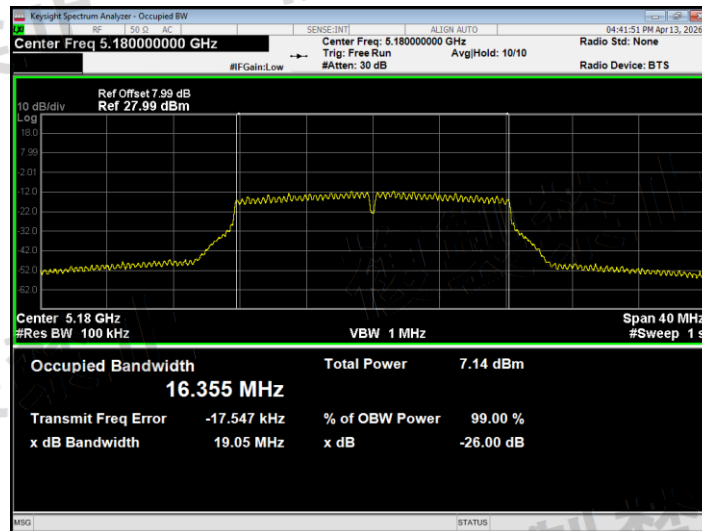
Freq. Error NVNT n40 5230MHz Ant1



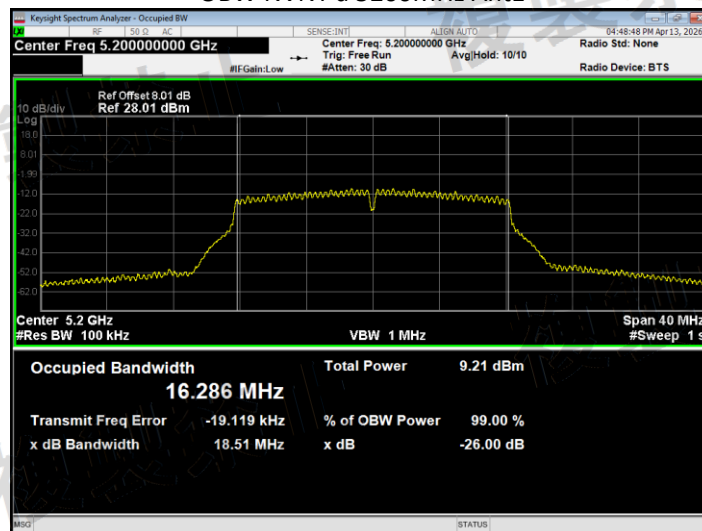
2. Occupied Frequency Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5180	Ant1	16.355	20	Pass
NVNT	a	5200	Ant1	16.286	20	Pass
NVNT	a	5240	Ant1	16.299	20	Pass
NVNT	n20	5180	Ant1	17.568	20	Pass
NVNT	n20	5200	Ant1	17.497	20	Pass
NVNT	n20	5240	Ant1	17.517	20	Pass
NVNT	n40	5190	Ant1	35.871	40	Pass
NVNT	n40	5230	Ant1	36.08	40	Pass

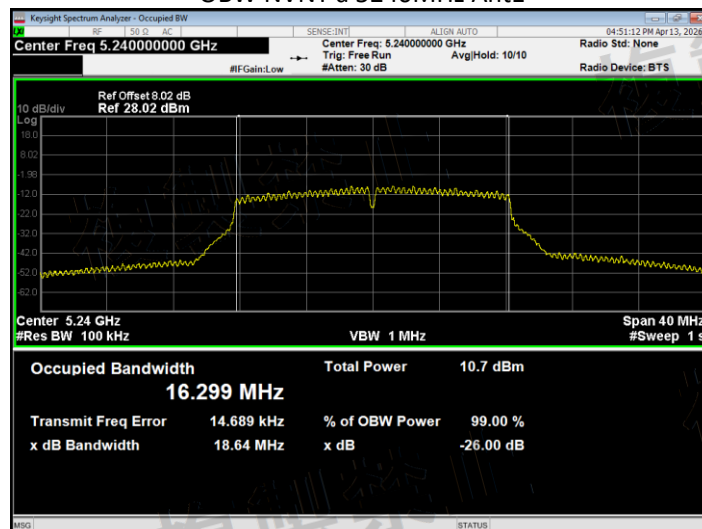
OBW NVNT a 5180MHz Ant1



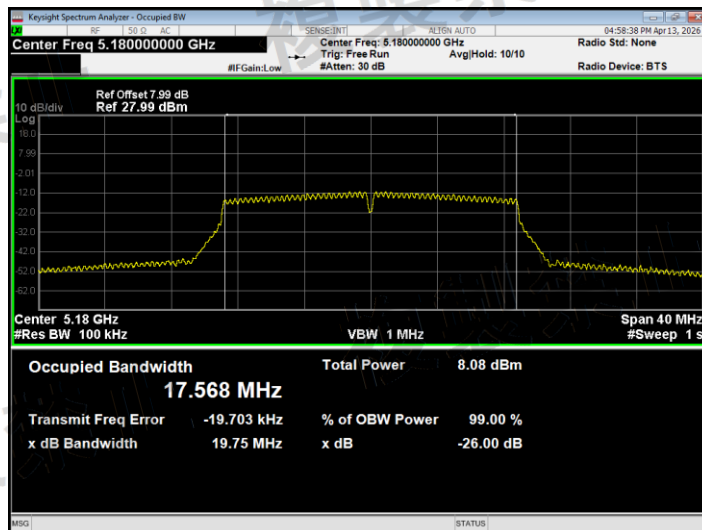
OBW NVNT a 5200MHz Ant1



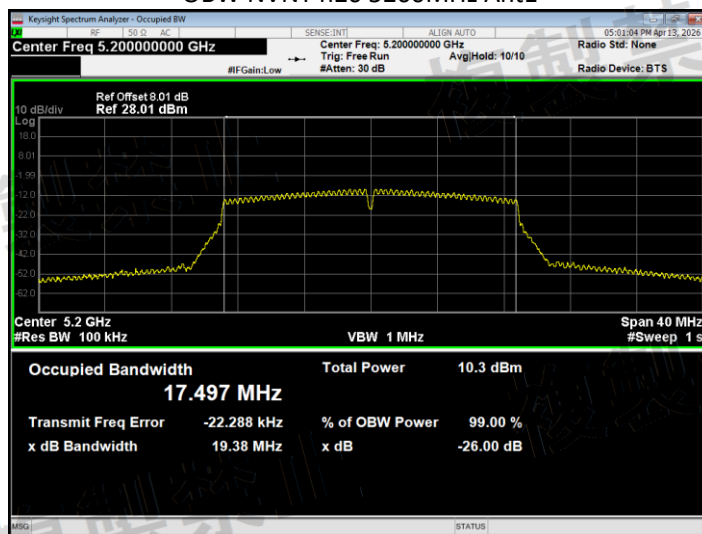
OBW NVNT a 5240MHz Ant1



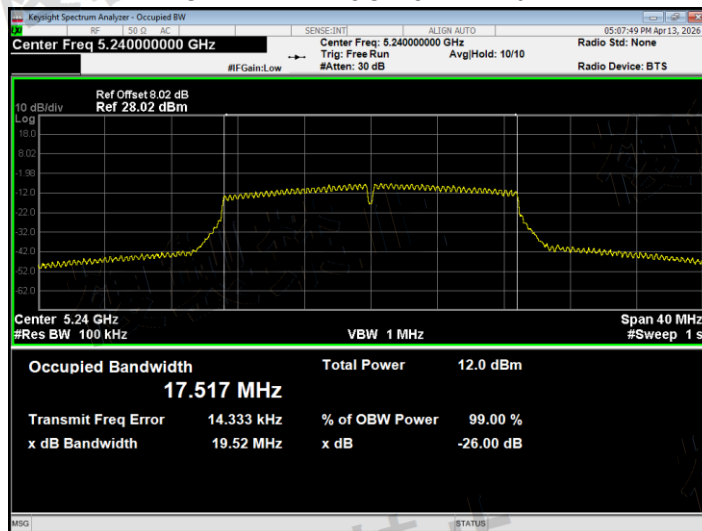
OBW NVNT n20 5180MHz Ant1



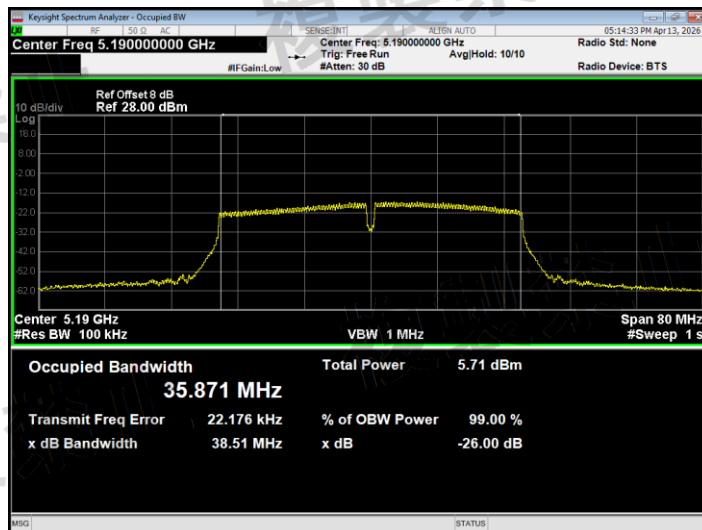
OBW NVNT n20 5200MHz Ant1



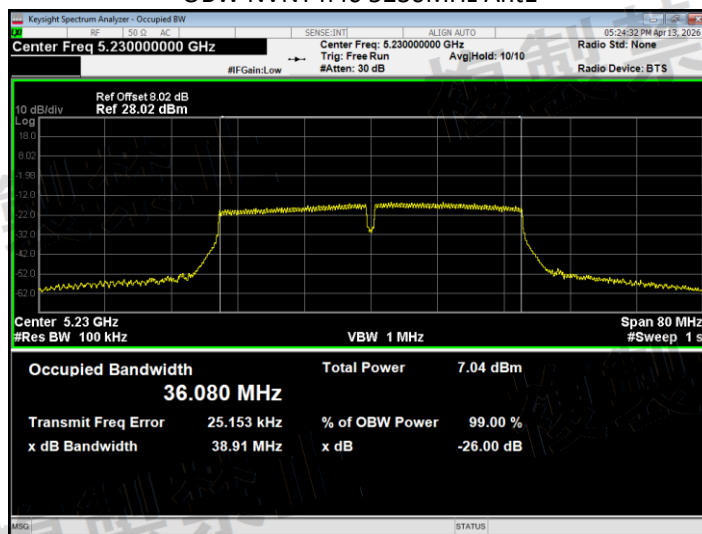
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



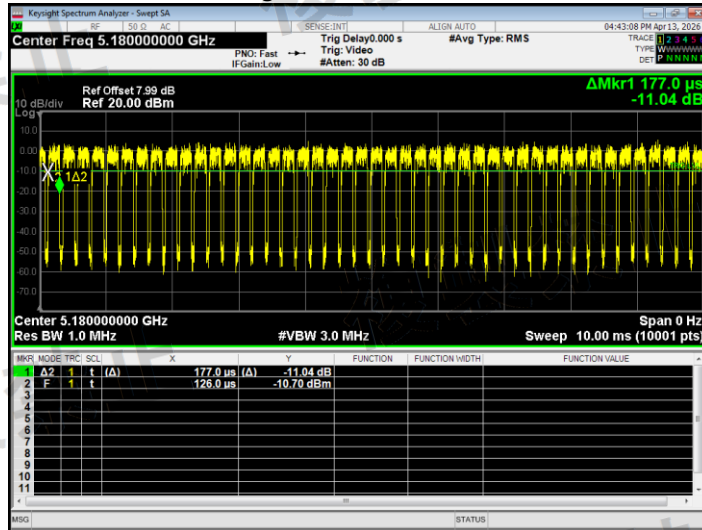
OBW NVNT n40 5230MHz Ant1



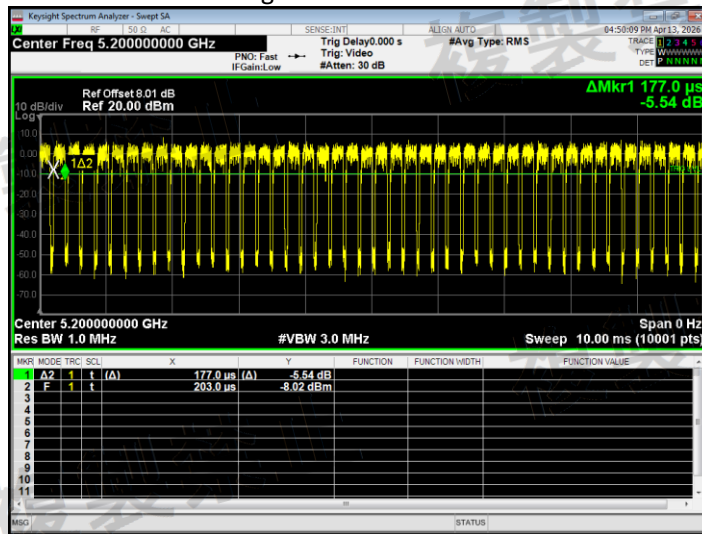
3. Burst Length

Condition	Mode	Frequency (MHz)	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	Ant1	5180	0.177	8	Pass
NVNT	a	Ant1	5200	0.177	8	Pass
NVNT	a	Ant1	5240	0.177	8	Pass
NVNT	n20	Ant1	5180	1.301	8	Pass
NVNT	n20	Ant1	5200	1.301	8	Pass
NVNT	n20	Ant1	5240	1.301	8	Pass
NVNT	n40	Ant1	5190	0.649	8	Pass
NVNT	n40	Ant1	5230	0.649	8	Pass

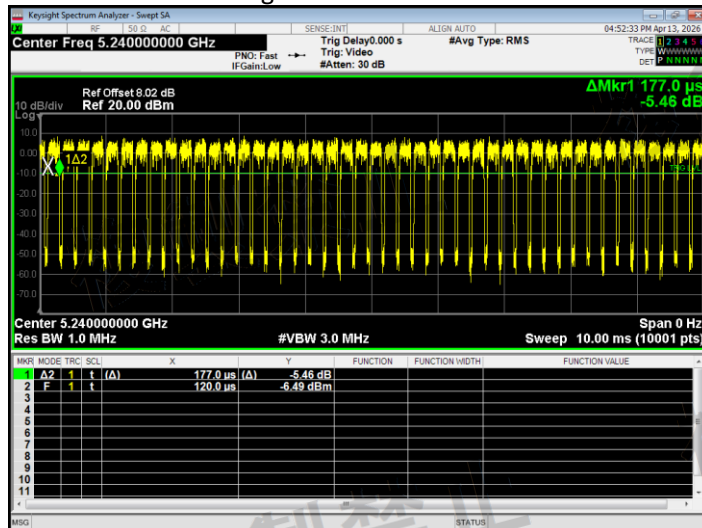
Burst Length NVNT a 5180MHz Ant1



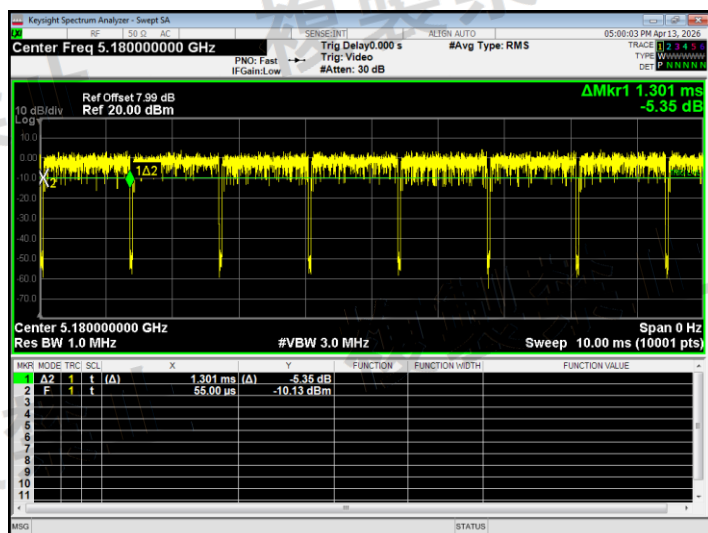
Burst Length NVNT a 5200MHz Ant1



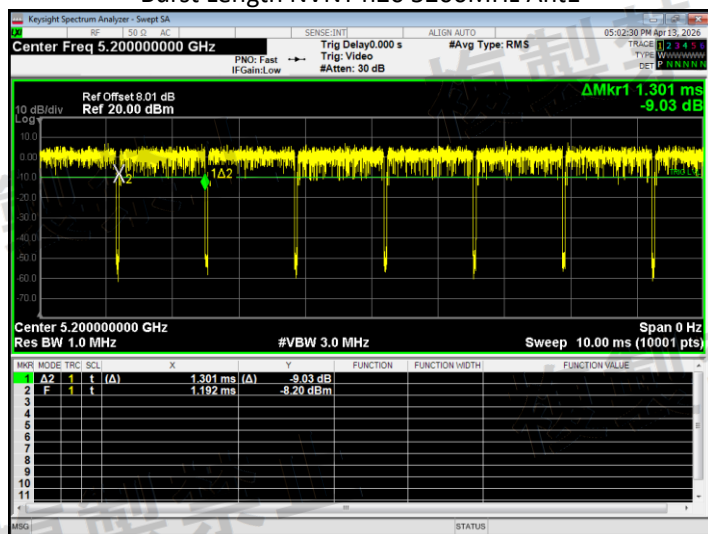
Burst Length NVNT a 5240MHz Ant1



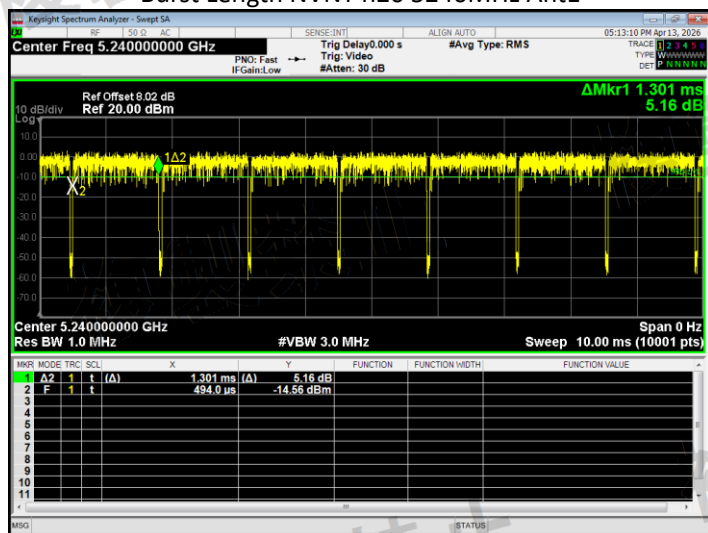
Burst Length NVNT n20 5180MHz Ant1



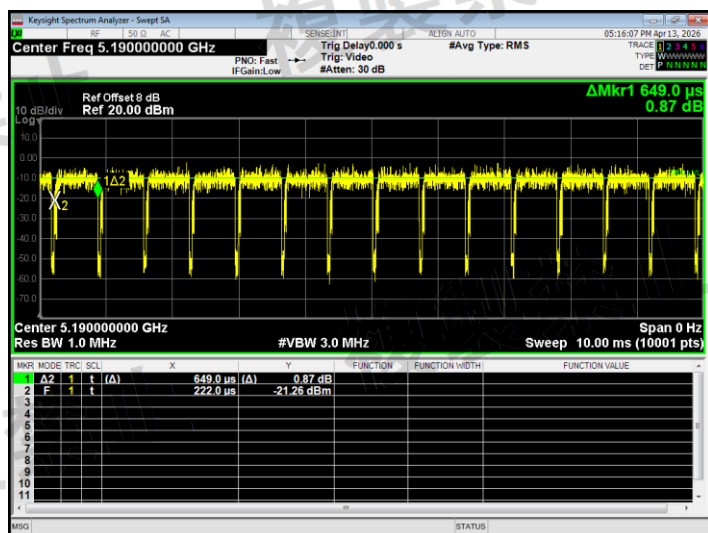
Burst Length NVNT n20 5200MHz Ant1



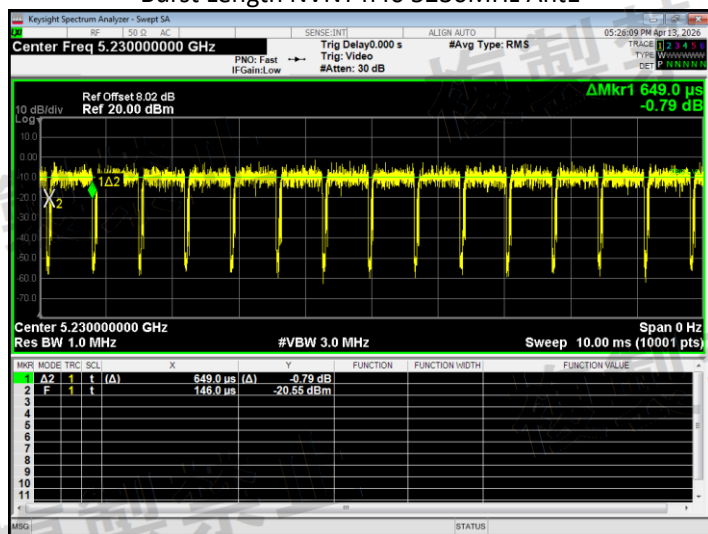
Burst Length NVNT n20 5240MHz Ant1



Burst Length NVNT n40 5190MHz Ant1



Burst Length NVNT n40 5230MHz Ant1



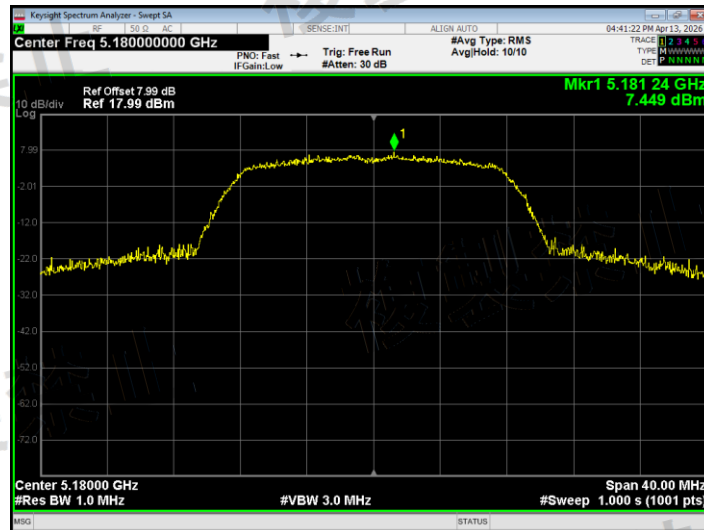
4. RF output power & E.I.R.P.(Without TPC)

Condition	Mode	Frequency	Antenna Power(mW/MHz)	Rated Power(mW/MHz)	Power Limit(mW/MHz)	Power Tolerance(%)	Tolerance Limit(%)	Result
NVNT	a	5180	0.436	1	10	-56.4	-80~20	Pass
NVNT	a	5200	0.716	1	10	-28.4	-80~20	Pass
NVNT	a	5240	0.995	1	10	-0.5	-80~20	Pass
NVNT	n20	5180	0.504	1	10	-49.6	-80~20	Pass
NVNT	n20	5200	0.818	1	10	-18.2	-80~20	Pass
NVNT	n20	5240	0.442	1	10	-55.8	-80~20	Pass
NVNT	n40	5190	0.404	1	5	-59.6	-80~20	Pass
NVNT	n40	5230	0.429	1	5	-57.1	-80~20	Pass

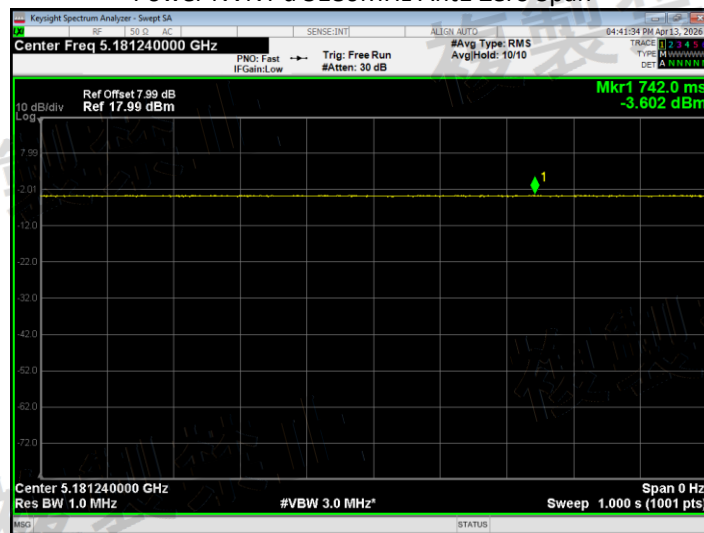
Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	EIRP Power (mW/MHz)	Power Limit(mW/MHz)	Verdict
NVNT	a	5180	-3.605	3.6	-0.005	0.999	10	Pass
NVNT	a	5200	-1.451	3.6	2.149	1.640	10	Pass
NVNT	a	5240	-0.022	3.6	3.578	2.279	10	Pass
NVNT	n20	5180	-2.976	3.6	0.624	1.155	10	Pass
NVNT	n20	5200	-0.872	3.6	2.728	1.874	10	Pass
NVNT	n20	5240	-3.546	3.6	0.054	1.013	10	Pass
NVNT	n40	5190	-3.936	3.6	-0.336	0.926	5	Pass
NVNT	n40	5230	-3.675	3.6	-0.075	0.983	5	Pass

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

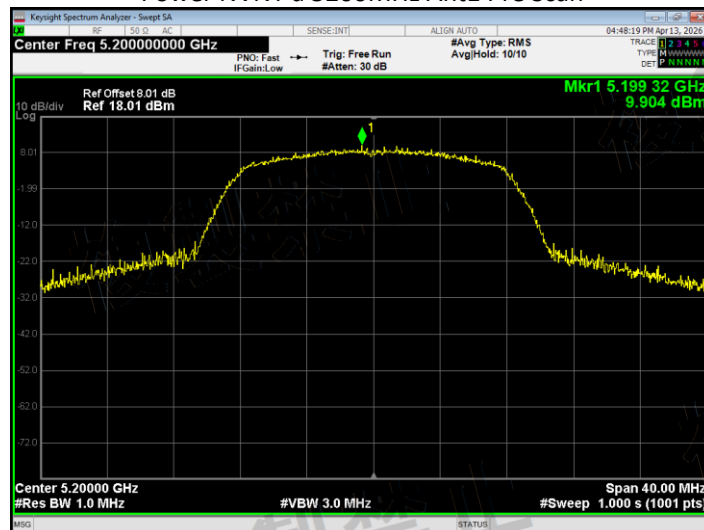
Power NVNT a 5180MHz Ant1 Pre Scan



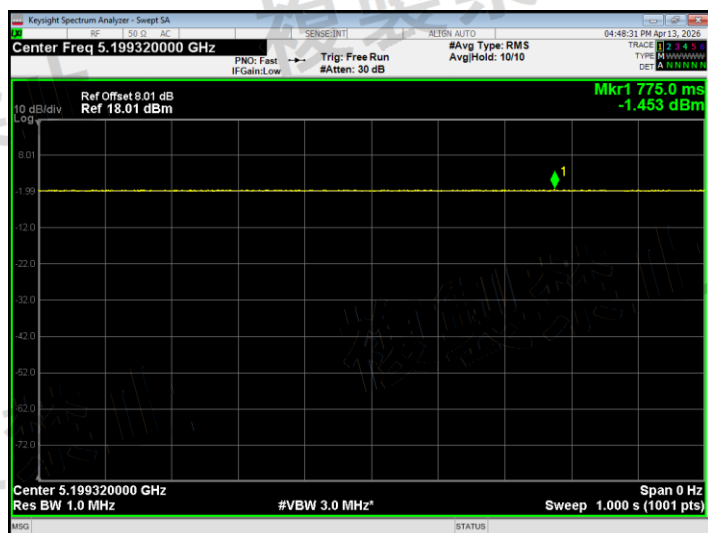
Power NVNT a 5180MHz Ant1 Zero Span



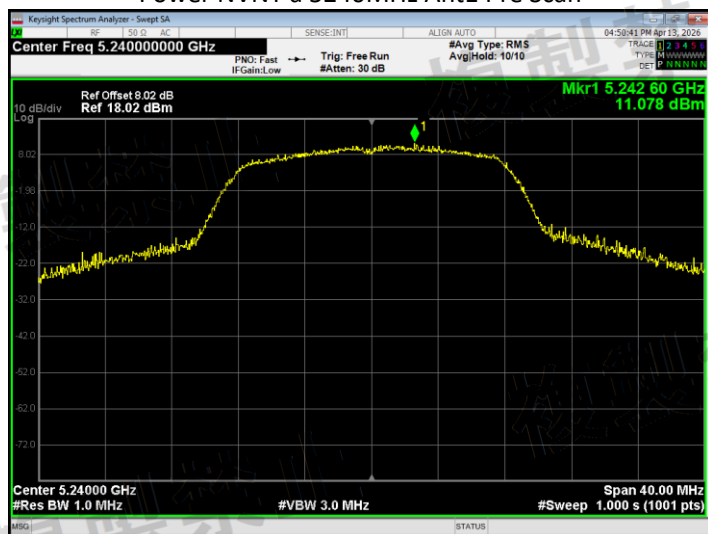
Power NVNT a 5200MHz Ant1 Pre Scan



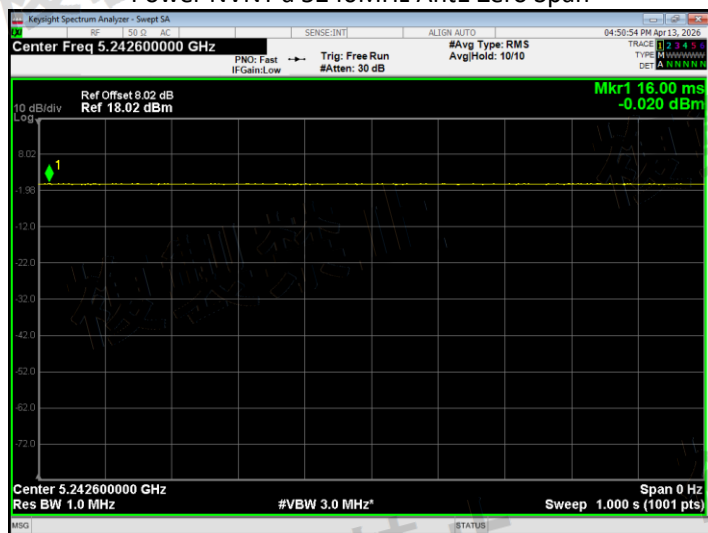
Power NVNT a 5200MHz Ant1 Zero Span



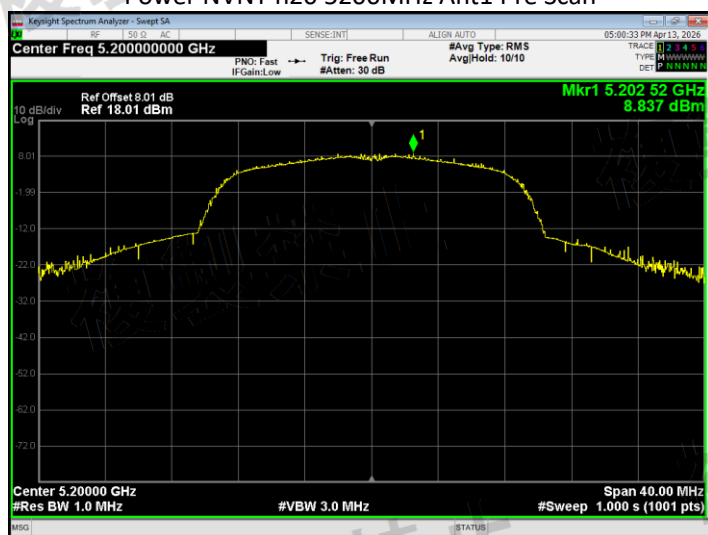
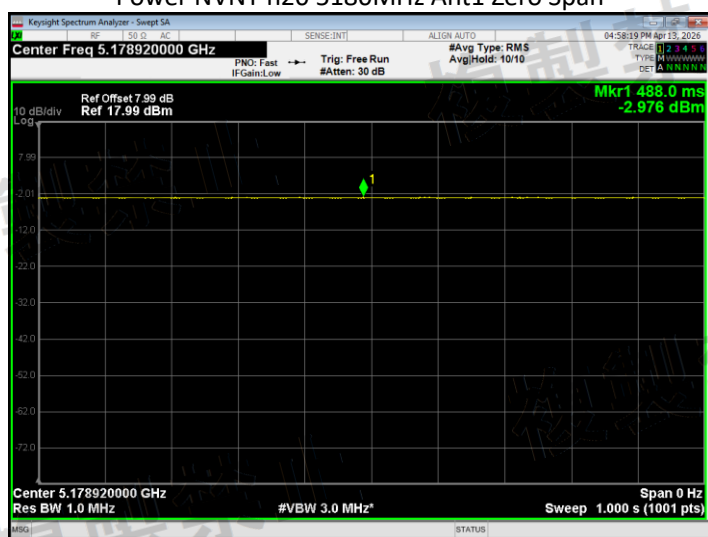
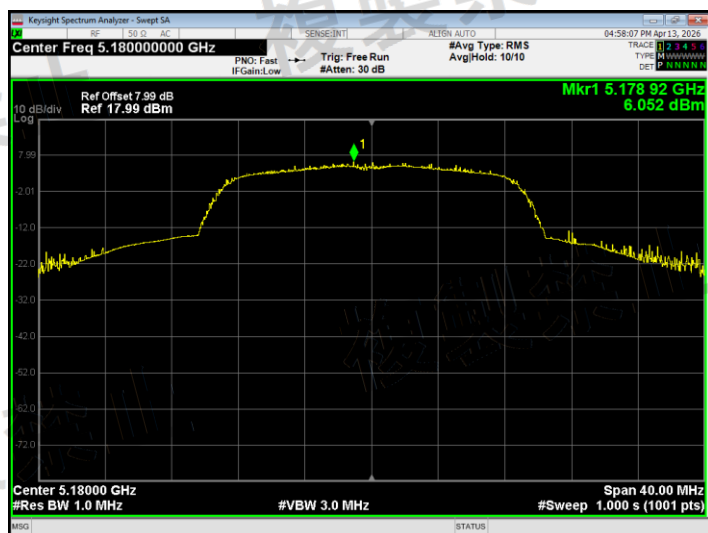
Power NVNT a 5240MHz Ant1 Pre Scan

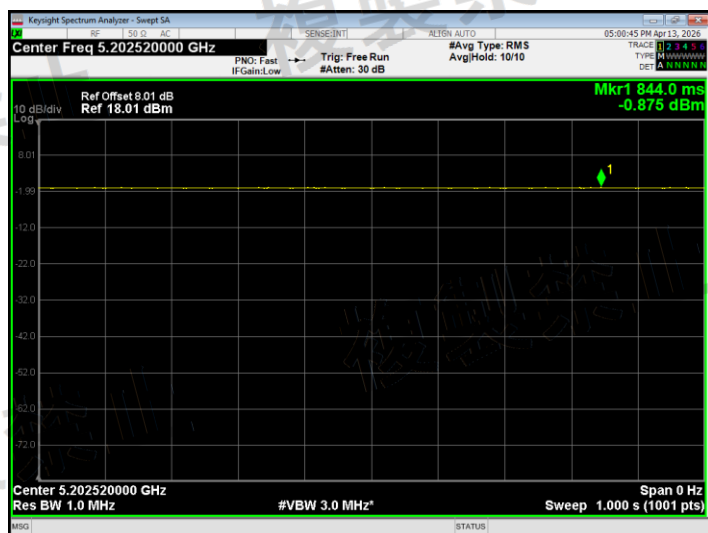


Power NVNT a 5240MHz Ant1 Zero Span

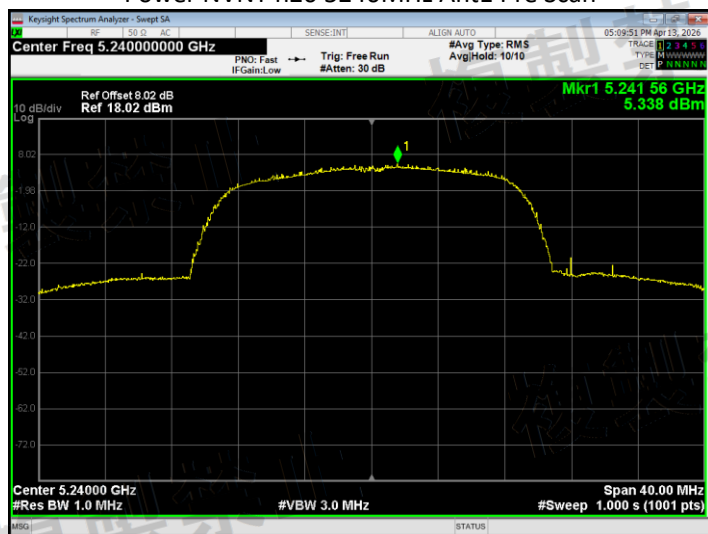


Power NVNT n20 5180MHz Ant1 Pre Scan





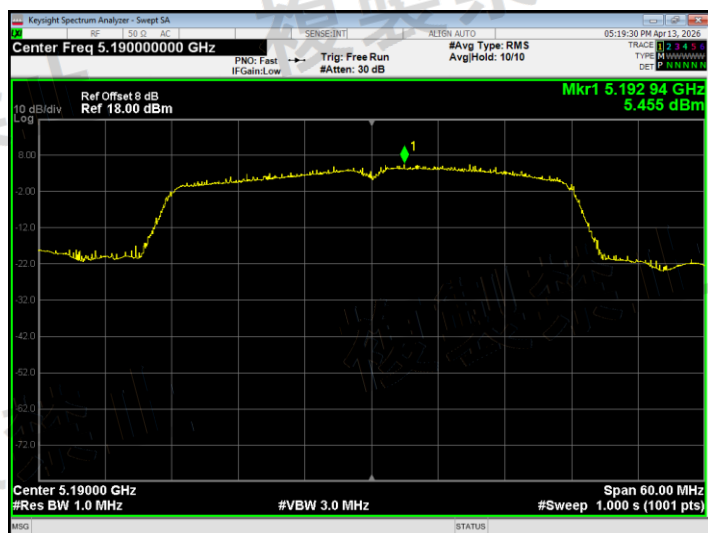
Power NVNT n20 5240MHz Ant1 Pre Scan



Power NVNT n20 5240MHz Ant1 Zero Span



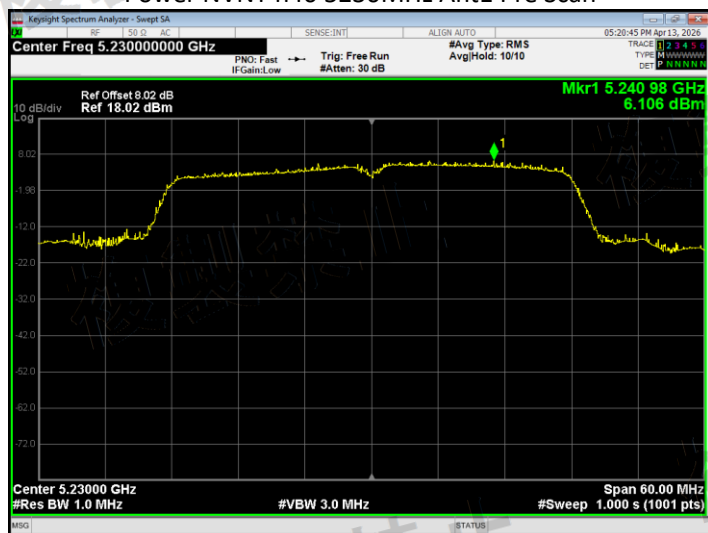
Power NVNT n40 5190MHz Ant1 Pre Scan



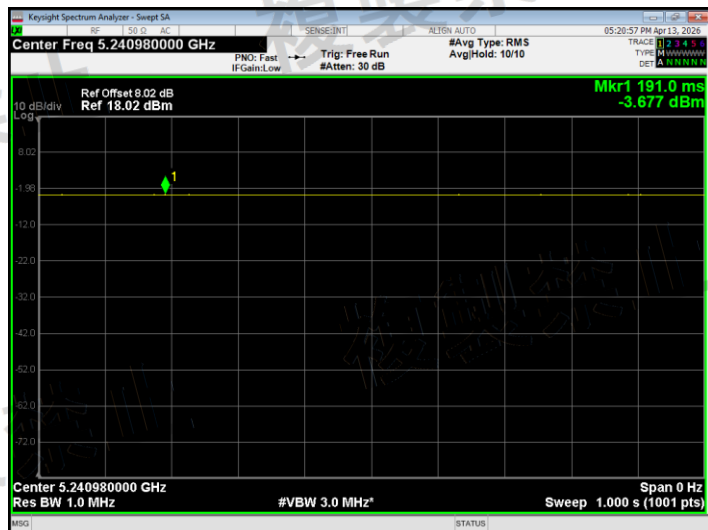
Power NVNT n40 5190MHz Ant1 Zero Span



Power NVNT n40 5230MHz Ant1 Pre Scan



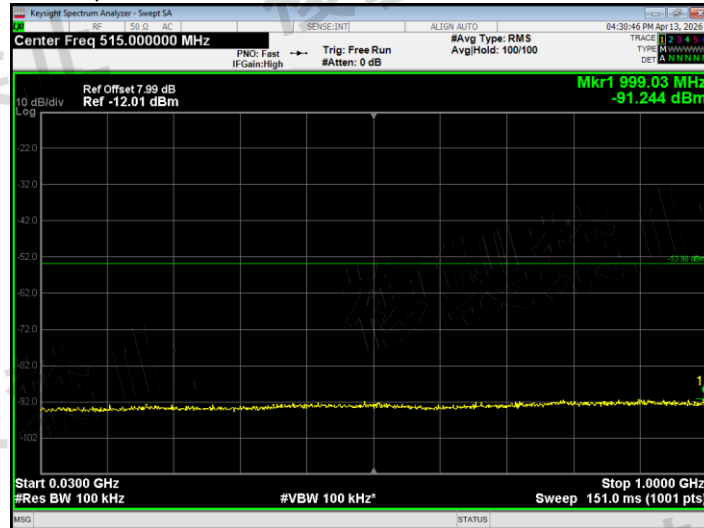
Power NVNT n40 5230MHz Ant1 Zero Span



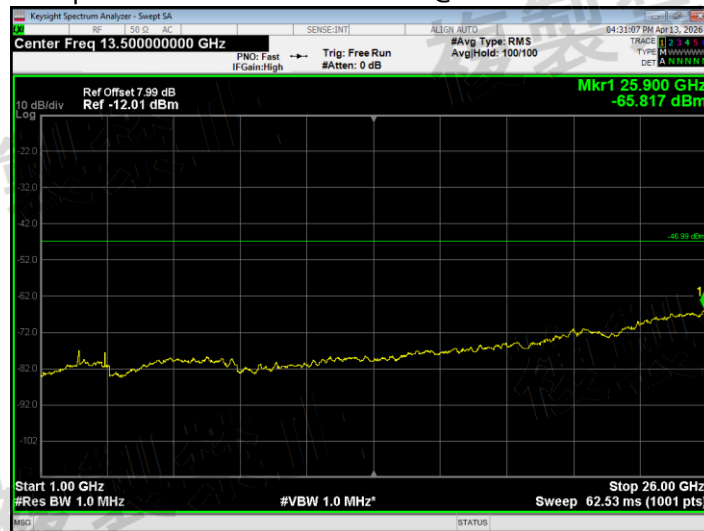
5. Secondary emission of radio wave

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (nW/MHz)	Limit (nW/MHz)	Verdict
NVNT	a	5180	Ant1	30-1000	999.03	-91.24	0.0008	4	Pass
NVNT	a	5180	Ant1	1000-26000	25900	-65.82	0.2618	20	Pass
NVNT	a	5200	Ant1	30-1000	912.7	-90.77	0.0008	4	Pass
NVNT	a	5200	Ant1	1000-26000	25925	-65.59	0.2761	20	Pass
NVNT	a	5240	Ant1	30-1000	915.61	-91.02	0.0008	4	Pass
NVNT	a	5240	Ant1	1000-26000	25975	-65.28	0.2965	20	Pass
NVNT	n20	5180	Ant1	30-1000	902.03	-91.15	0.0008	4	Pass
NVNT	n20	5180	Ant1	1000-26000	25950	-65.32	0.2938	20	Pass
NVNT	n20	5200	Ant1	30-1000	939.86	-91.07	0.0008	4	Pass
NVNT	n20	5200	Ant1	1000-26000	25875	-65.67	0.271	20	Pass
NVNT	n20	5240	Ant1	30-1000	805.03	-91.45	0.0007	4	Pass
NVNT	n20	5240	Ant1	1000-26000	25900	-65.68	0.2704	20	Pass
NVNT	n40	5190	Ant1	30-1000	946.65	-91.31	0.0007	4	Pass
NVNT	n40	5190	Ant1	1000-26000	25900	-65.82	0.2618	20	Pass
NVNT	n40	5230	Ant1	30-1000	934.04	-91.05	0.0008	4	Pass
NVNT	n40	5230	Ant1	1000-26000	26000	-65.54	0.2793	20	Pass

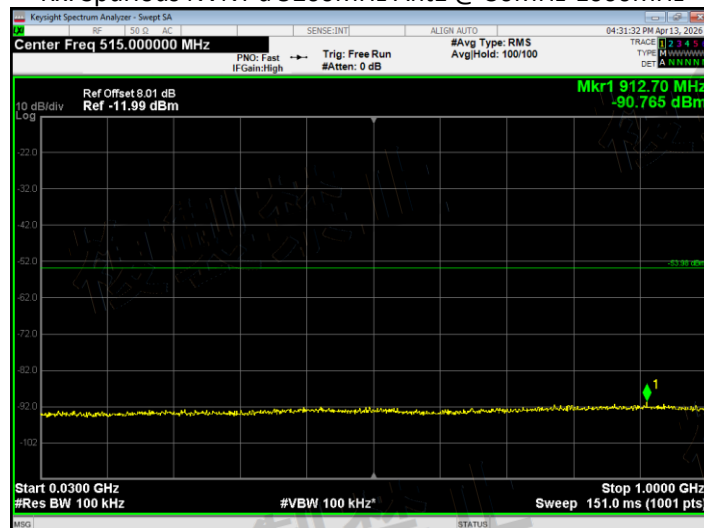
Rx. Spurious NVNT a 5180MHz Ant1 @ 30MHz-1000MHz



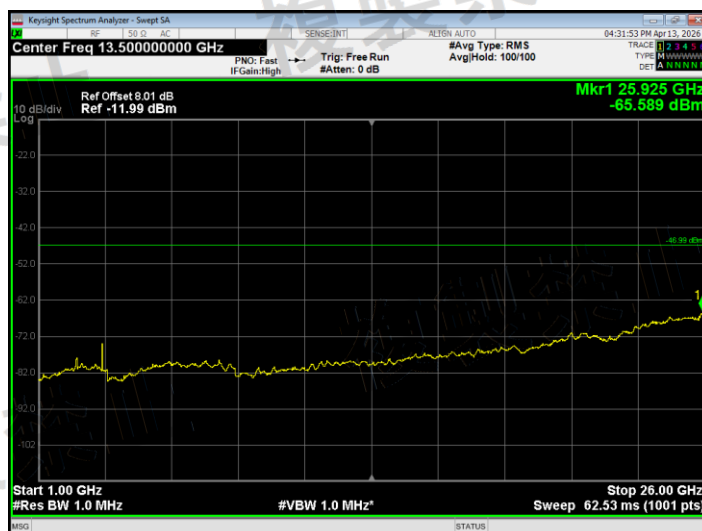
Rx. Spurious NVNT a 5180MHz Ant1 @ 1000MHz-26000MHz



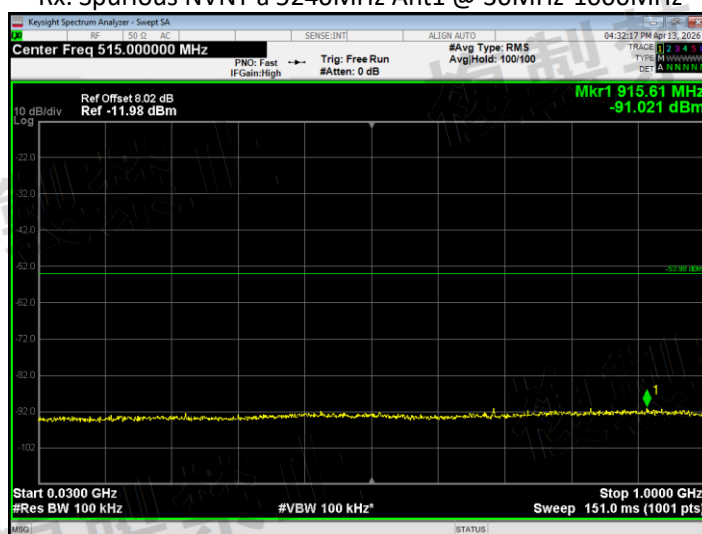
Rx. Spurious NVNT a 5200MHz Ant1 @ 30MHz-1000MHz



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



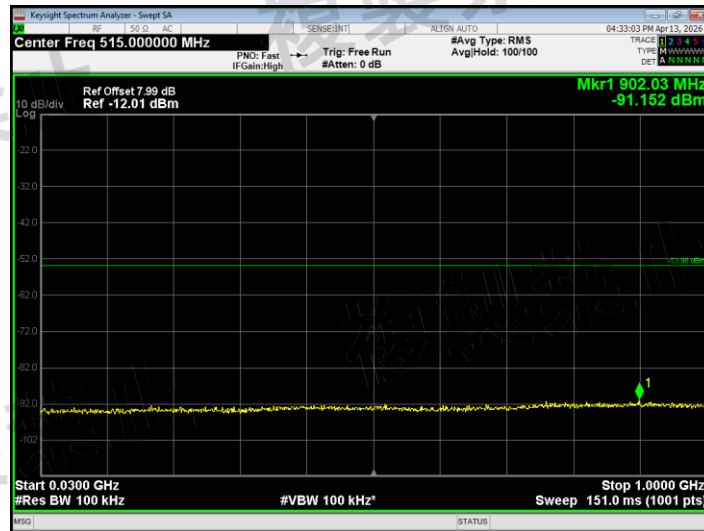
Rx. Spurious NVNT a 5240MHz Ant1 @ 30MHz-1000MHz



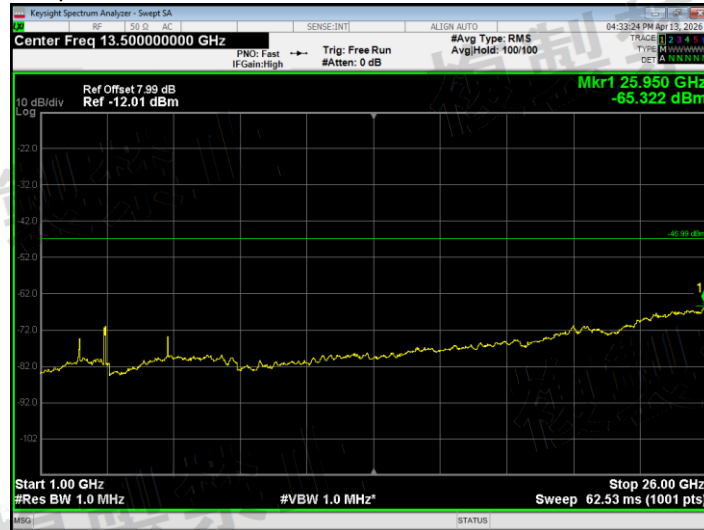
Rx. Spurious NVNT a 5240MHz Ant1 @ 1000MHz-26000MHz



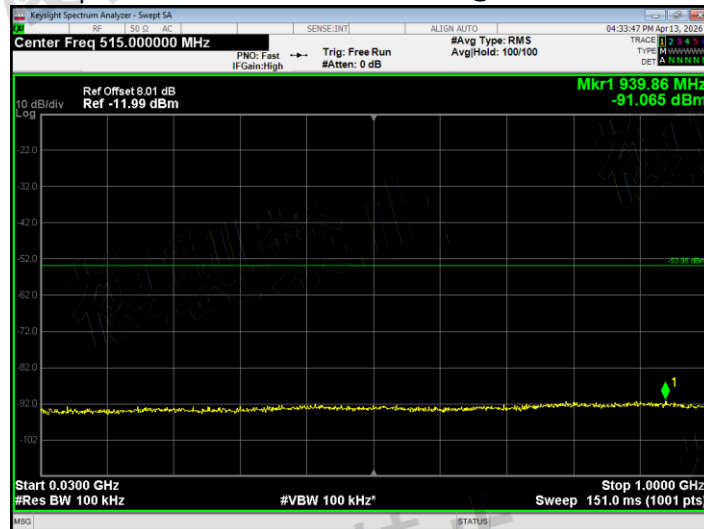
Rx. Spurious NVNT n20 5180MHz Ant1 @ 30MHz-1000MHz



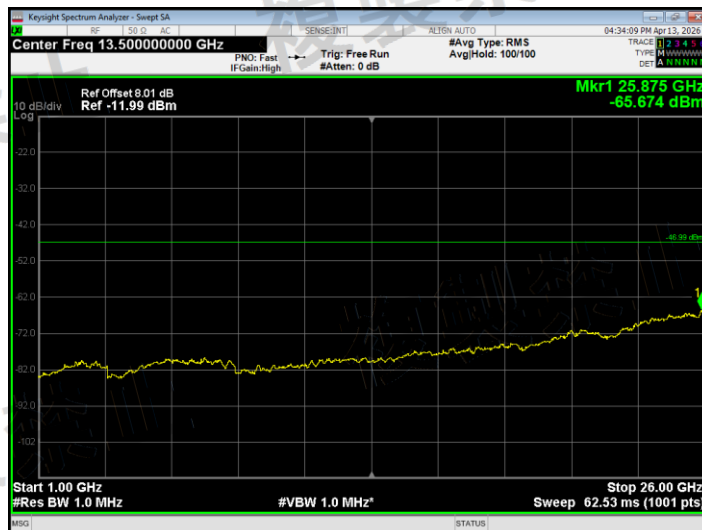
Rx. Spurious NVNT n20 5180MHz Ant1 @ 1000MHz-26000MHz



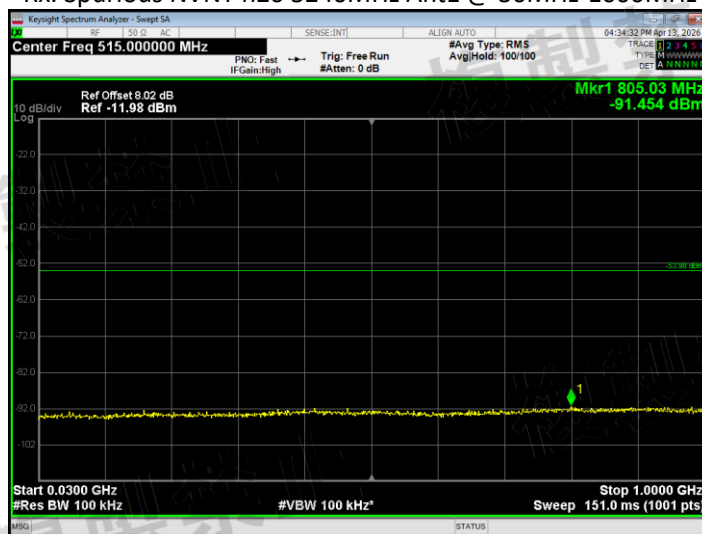
Rx. Spurious NVNT n20 5200MHz Ant1 @ 30MHz-1000MHz



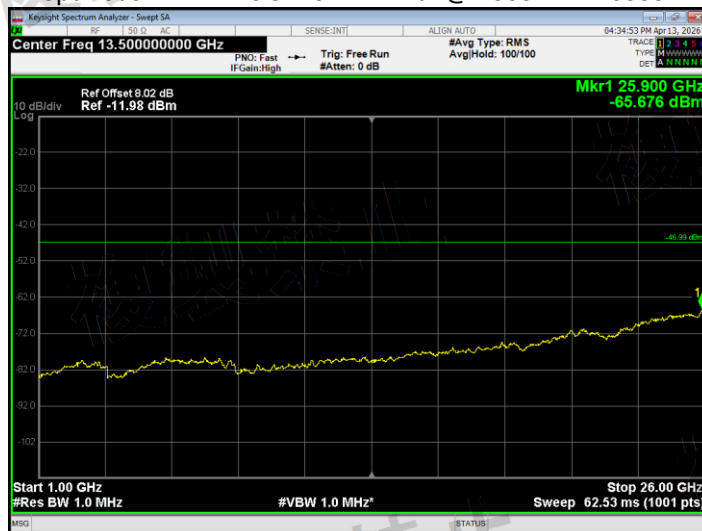
Rx. Spurious NVNT n20 5200MHz Ant1 @ 1000MHz-26000MHz



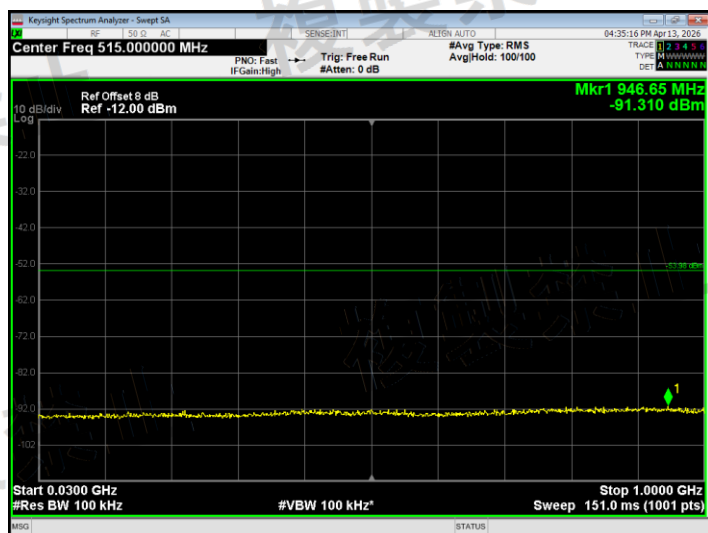
Rx. Spurious NVNT n20 5240MHz Ant1 @ 30MHz-1000MHz



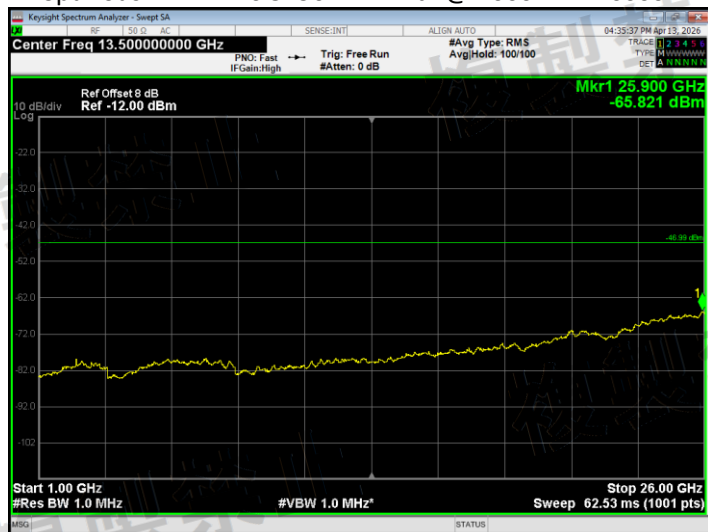
Rx. Spurious NVNT n20 5240MHz Ant1 @ 1000MHz-26000MHz



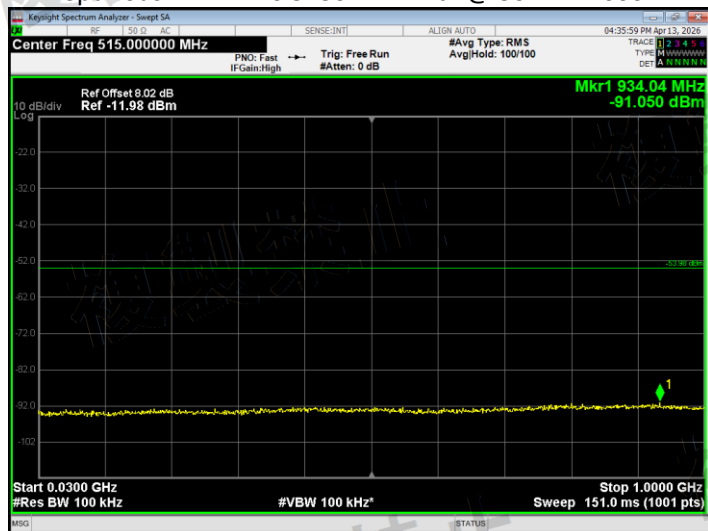
Rx. Spurious NVNT n40 5190MHz Ant1 @ 30MHz-1000MHz



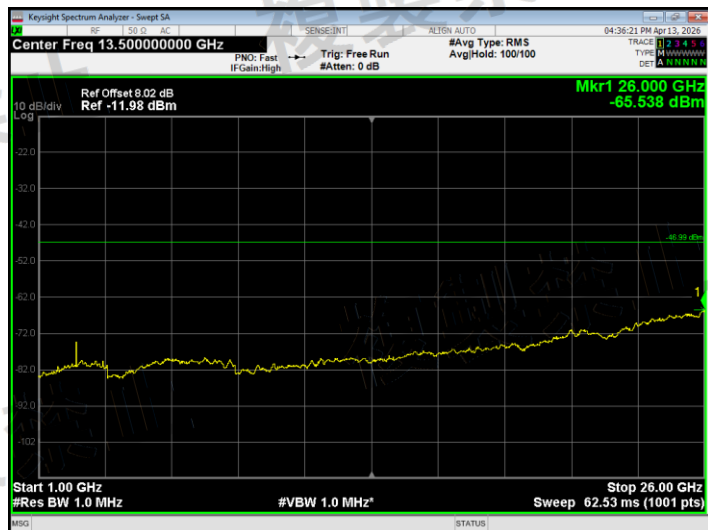
Rx. Spurious NVNT n40 5190MHz Ant1 @ 1000MHz-26000MHz



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



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

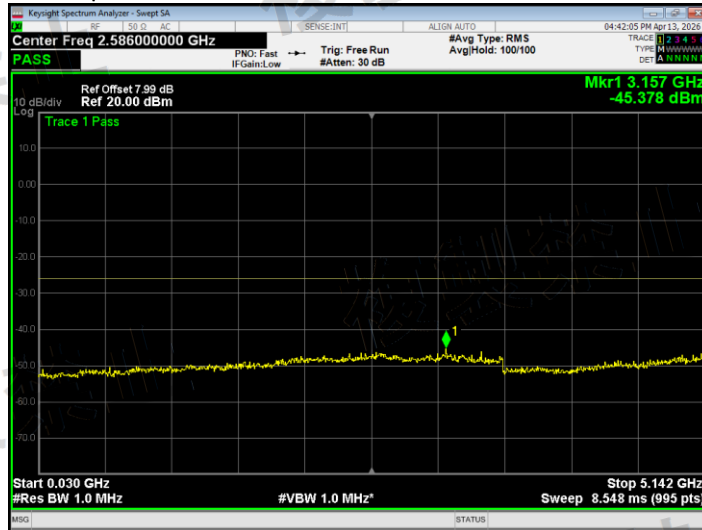


6. Spurious Emissions

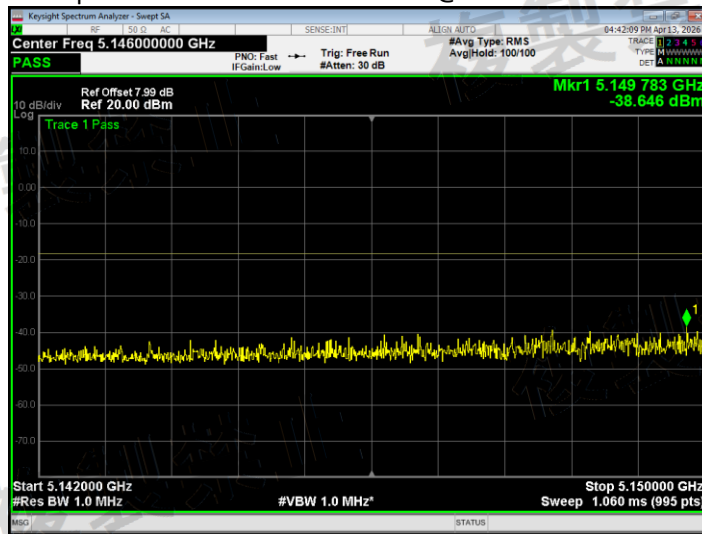
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (uW/MHz)	Limit Start(uW/MHz)	Limit Stop (uW/MHz)	Verdict
NVNT	a	5180	Ant1	30-5142	3156.86	-45.38	0.029	2.5	2.5	Pass
NVNT	a	5180	Ant1	5142-5150	5149.78	-38.65	0.1365	15	15	Pass
NVNT	a	5180	Ant1	5250-5251	5250.48	-42.98	0.0504	1000	100	Pass
NVNT	a	5180	Ant1	5251-5260	5251.57	-42.69	0.0538	100	15.85	Pass
NVNT	a	5180	Ant1	5260-5266.7	5260.88	-43.94	0.0404	15.85	2.49	Pass
NVNT	a	5180	Ant1	5266.7-26000	25979.14	-34.48	0.3565	2.5	2.5	Pass
NVNT	a	5200	Ant1	30-5142	3403.92	-40.1	0.0977	2.5	2.5	Pass
NVNT	a	5200	Ant1	5142-5150	5142.29	-43.89	0.0408	15	15	Pass
NVNT	a	5200	Ant1	5250-5251	5250.88	-43.55	0.0442	1000	100	Pass
NVNT	a	5200	Ant1	5251-5260	5258.9	-43.52	0.0445	100	15.85	Pass
NVNT	a	5200	Ant1	5260-5266.7	5265.11	-43.86	0.0411	15.85	2.49	Pass
NVNT	a	5200	Ant1	5266.7-26000	25937.8	-34.86	0.3266	2.5	2.5	Pass
NVNT	a	5240	Ant1	30-5142	3040.97	-46.21	0.0239	2.5	2.5	Pass
NVNT	a	5240	Ant1	5142-5150	5148.71	-44.23	0.0378	15	15	Pass
NVNT	a	5240	Ant1	5250-5251	5250.04	-14.41	36.2243	1000	100	Pass
NVNT	a	5240	Ant1	5251-5260	5251.83	-19.41	11.4551	100	15.85	Pass
NVNT	a	5240	Ant1	5260-5266.7	5261.66	-28.86	1.3002	15.85	2.49	Pass
NVNT	a	5240	Ant1	5266.7-26000	25875.6	-34.91	0.3228	2.5	2.5	Pass
NVNT	n20	5180	Ant1	30-5142	2427.53	-45.53	0.028	2.5	2.5	Pass
NVNT	n20	5180	Ant1	5142-5150	5149.42	-34.59	0.3475	15	15	Pass
NVNT	n20	5180	Ant1	5250-5251	5250.51	-43.96	0.0402	1000	100	Pass
NVNT	n20	5180	Ant1	5251-5260	5252.86	-43.69	0.0428	100	15.85	Pass
NVNT	n20	5180	Ant1	5260-5266.7	5260.35	-42.82	0.0522	15.85	2.49	Pass
NVNT	n20	5180	Ant1	5266.7-26000	25917.07	-34.72	0.3373	2.5	2.5	Pass
NVNT	n20	5200	Ant1	30-5142	2632.01	-46.06	0.0248	2.5	2.5	Pass
NVNT	n20	5200	Ant1	5142-5150	5148.09	-42.89	0.0514	15	15	Pass
NVNT	n20	5200	Ant1	5250-5251	5250.65	-43.28	0.047	1000	100	Pass
NVNT	n20	5200	Ant1	5251-5260	5256	-42.3	0.0589	100	15.85	Pass
NVNT	n20	5200	Ant1	5260-5266.7	5260.93	-43.2	0.0479	15.85	2.49	Pass
NVNT	n20	5200	Ant1	5266.7-26000	25958.53	-34.76	0.3342	2.5	2.5	Pass
NVNT	n20	5240	Ant1	30-5142	3419.26	-35.23	0.2999	2.5	2.5	Pass
NVNT	n20	5240	Ant1	5142-5150	5149.15	-43.89	0.0408	15	15	Pass
NVNT	n20	5240	Ant1	5250-5251	5250.04	-9.09	123.3105	1000	100	Pass
NVNT	n20	5240	Ant1	5251-5260	5251.58	-14.42	36.141	100	15.85	Pass
NVNT	n20	5240	Ant1	5260-5266.7	5260.69	-24.63	3.4435	15.85	2.49	Pass
NVNT	n20	5240	Ant1	5266.7-26000	25917.07	-34.91	0.3228	2.5	2.5	Pass
NVNT	n40	5190	Ant1	30-5141.6	3403.66	-33.59	0.4375	2.5	2.5	Pass
NVNT	n40	5190	Ant1	5141.6-5150	5148.59	-35.44	0.2858	15	15	Pass
NVNT	n40	5190	Ant1	5250-5251	5250.05	-41.05	0.0785	500	50	Pass
NVNT	n40	5190	Ant1	5251-5270	5260.59	-42.79	0.0526	50	7.92	Pass
NVNT	n40	5190	Ant1	5270-5278.4	5271.92	-44.11	0.0388	7.92	2.48	Pass
NVNT	n40	5190	Ant1	5278.4-26000	25937.84	-34.94	0.3206	2.5	2.5	Pass
NVNT	n40	5230	Ant1	30-5141.6	2647.14	-45.52	0.0281	2.5	2.5	Pass
NVNT	n40	5230	Ant1	5141.6-5150	5145.71	-43.96	0.0402	15	15	Pass
NVNT	n40	5230	Ant1	5250-5251	5250.02	-19.71	10.6905	500	50	Pass
NVNT	n40	5230	Ant1	5251-5270	5258.6	-28.97	1.2677	50	7.92	Pass
NVNT	n40	5230	Ant1	5270-5278.4	5270.47	-35.96	0.2535	7.92	2.48	Pass
NVNT	n40	5230	Ant1	5278.4-26000	25896.39	-34.92	0.3221	2.5	2.5	Pass

Note: The antenna gain plus line loss is compensated in the test data.

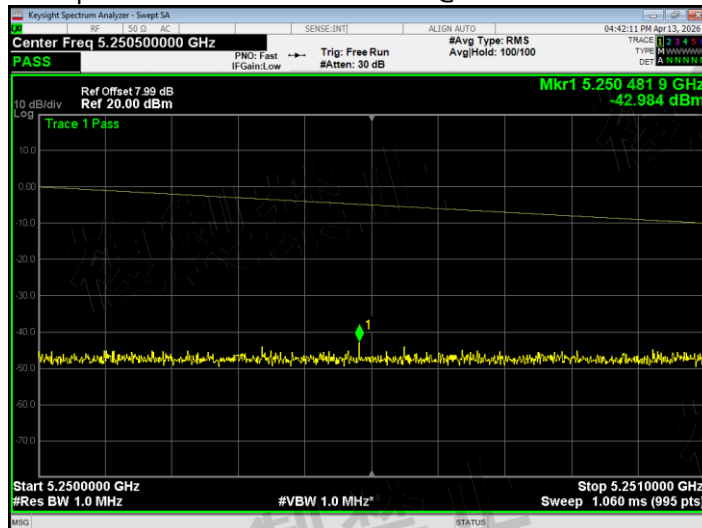
Tx. Spurious NVNT a 5180MHz Ant1 @ 30MHz-5142MHz



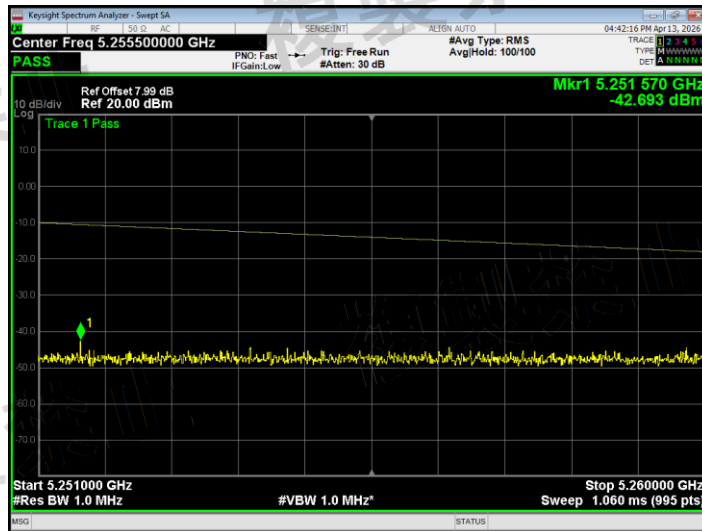
Tx. Spurious NVNT a 5180MHz Ant1 @ 5142MHz-5150MHz



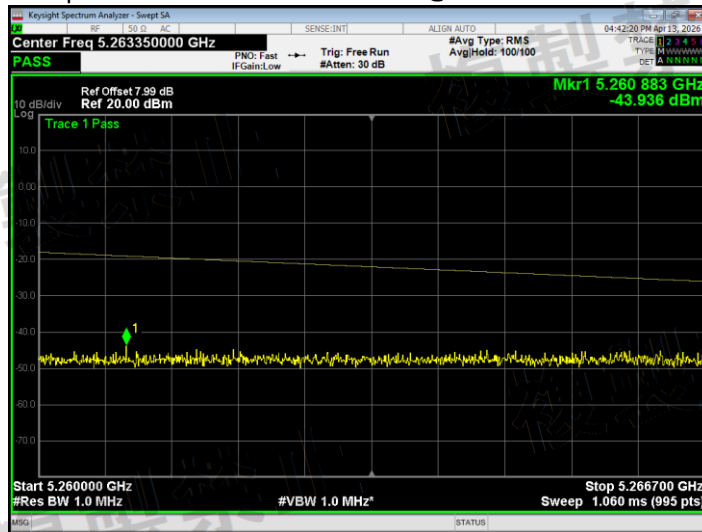
Tx. Spurious NVNT a 5180MHz Ant1 @ 5250MHz-5251MHz



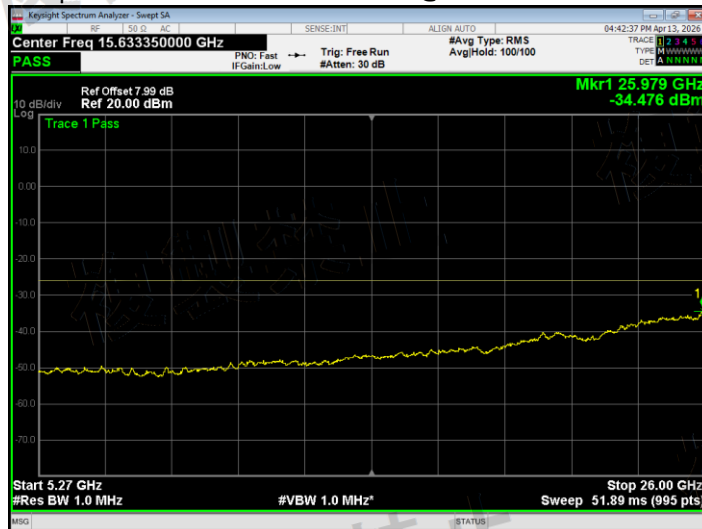
Tx. Spurious NVNT a 5180MHz Ant1 @ 5251MHz-5260MHz



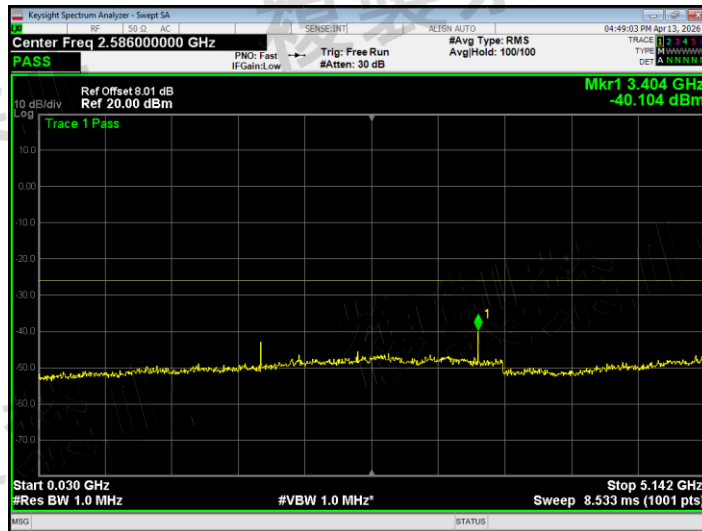
Tx. Spurious NVNT a 5180MHz Ant1 @ 5260MHz-5266.7MHz



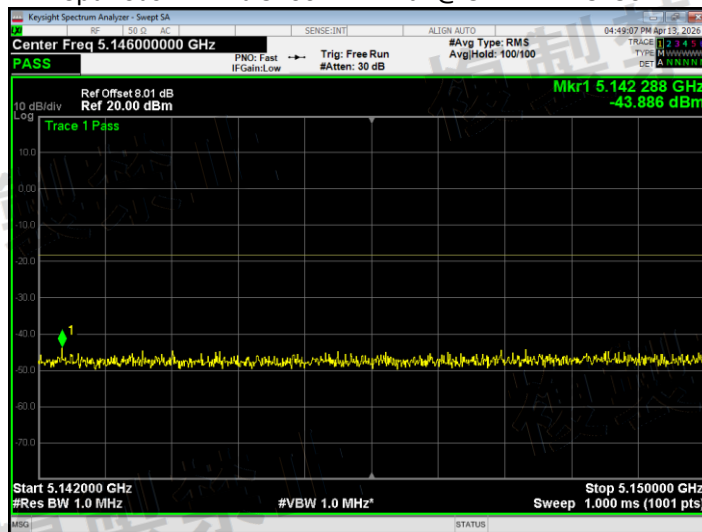
Tx. Spurious NVNT a 5180MHz Ant1 @ 5266.7MHz-26000MHz



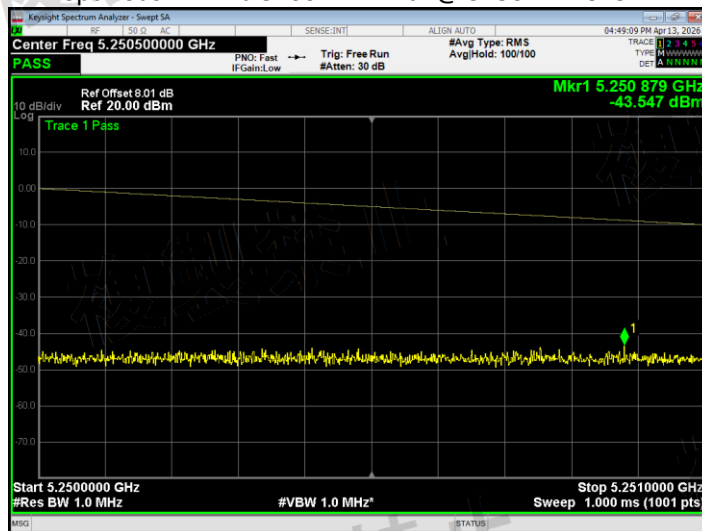
Tx. Spurious NVNT a 5200MHz Ant1 @ 30MHz-5142MHz



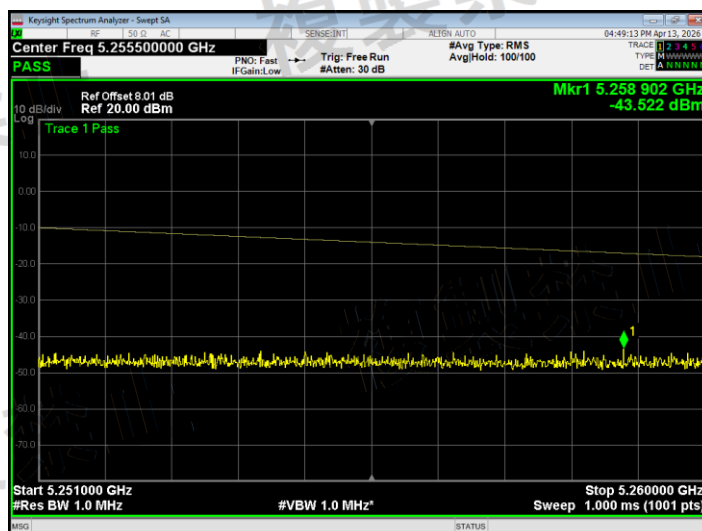
Tx. Spurious NVNT a 5200MHz Ant1 @ 5142MHz-5150MHz



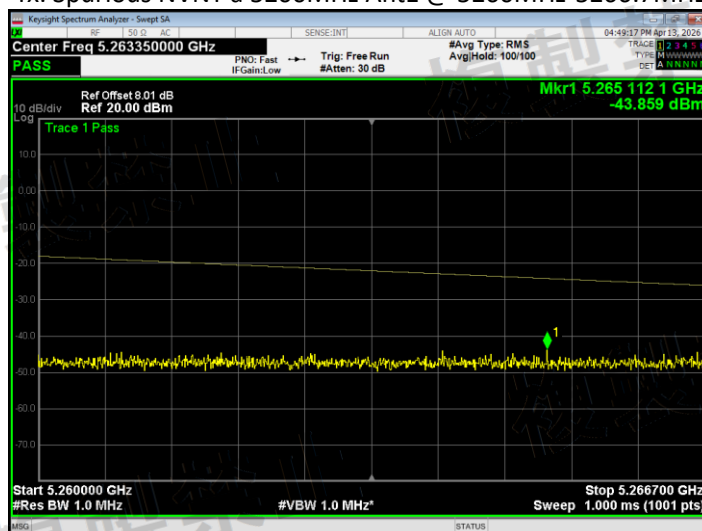
Tx. Spurious NVNT a 5200MHz Ant1 @ 5250MHz-5251MHz



Tx. Spurious NVNT a 5200MHz Ant1 @ 5251MHz-5260MHz



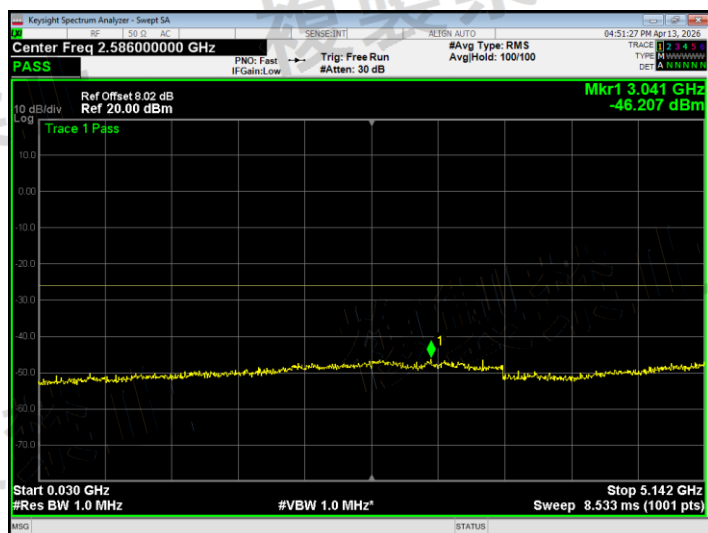
Tx. Spurious NVNT a 5200MHz Ant1 @ 5260MHz-5266.7MHz



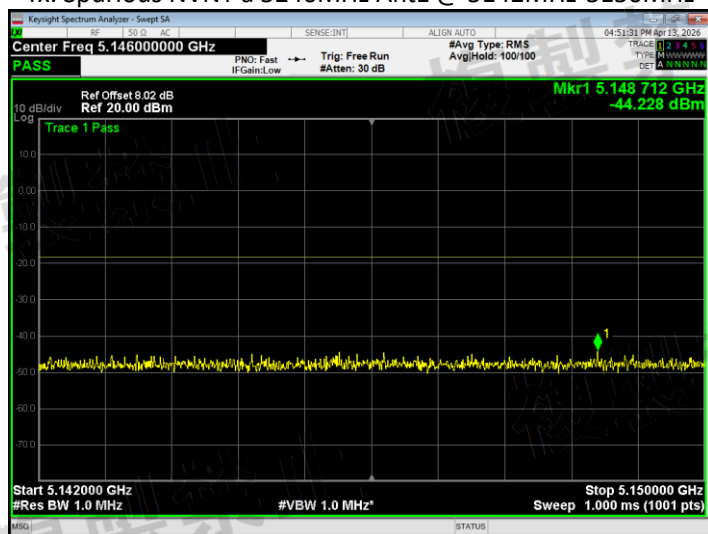
Tx. Spurious NVNT a 5200MHz Ant1 @ 5266.7MHz-26000MHz



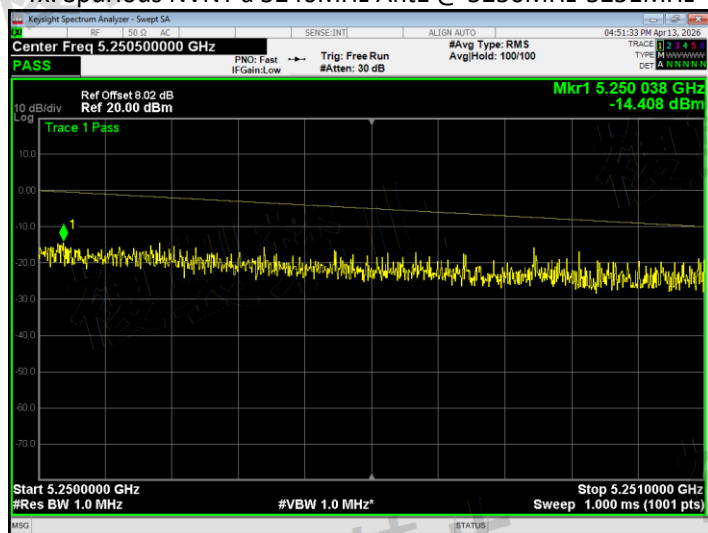
Tx. Spurious NVNT a 5240MHz Ant1 @ 30MHz-5142MHz



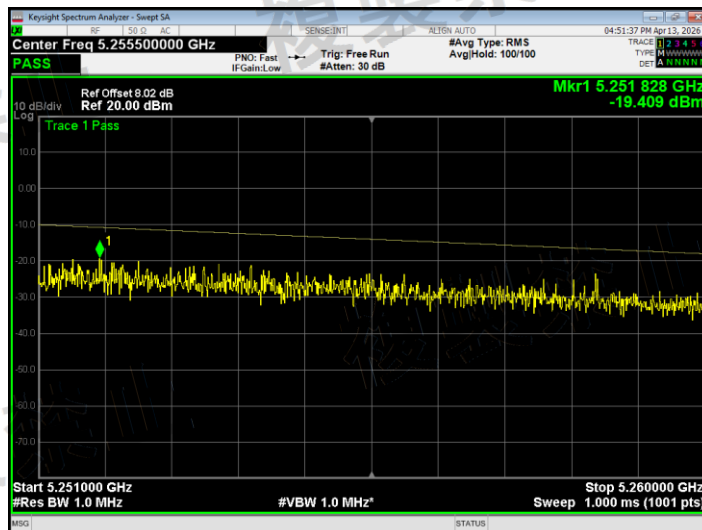
Tx. Spurious NVNT a 5240MHz Ant1 @ 5142MHz-5150MHz



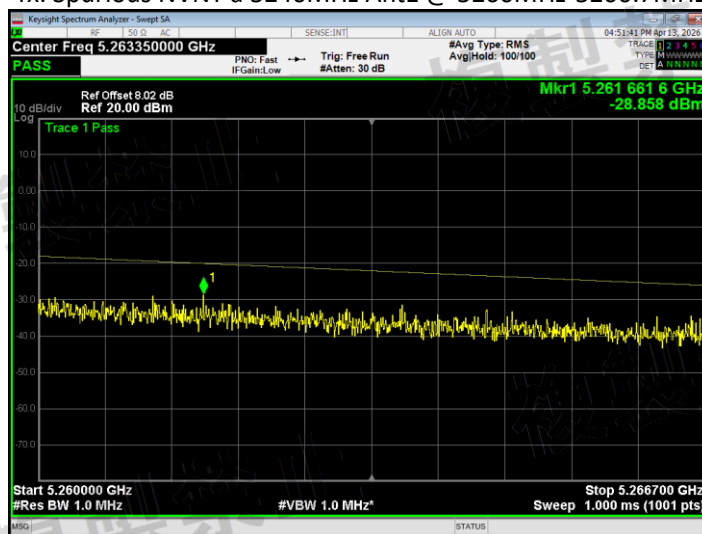
Tx. Spurious NVNT a 5240MHz Ant1 @ 5250MHz-5251MHz



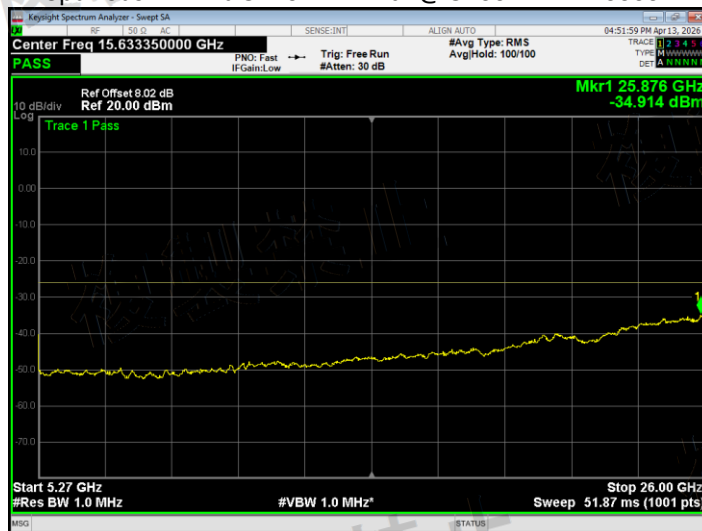
Tx. Spurious NVNT a 5240MHz Ant1 @ 5251MHz-5260MHz



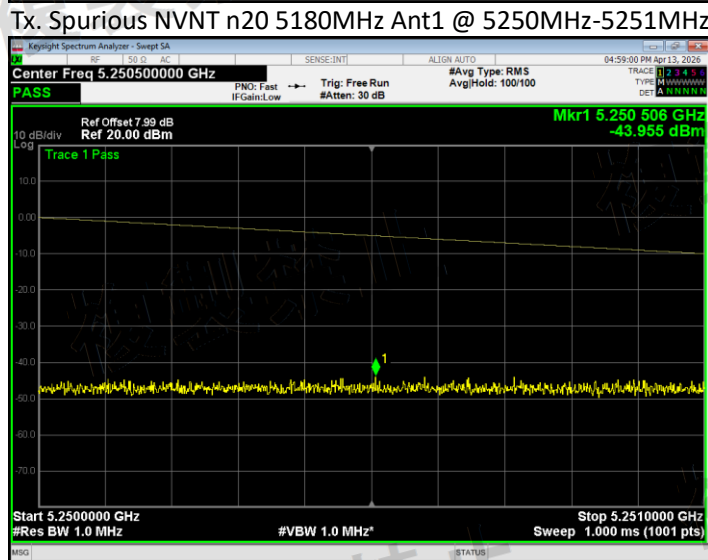
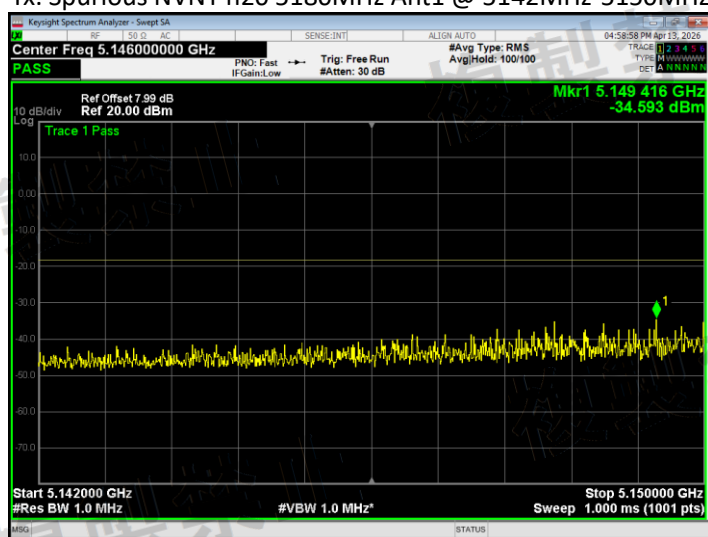
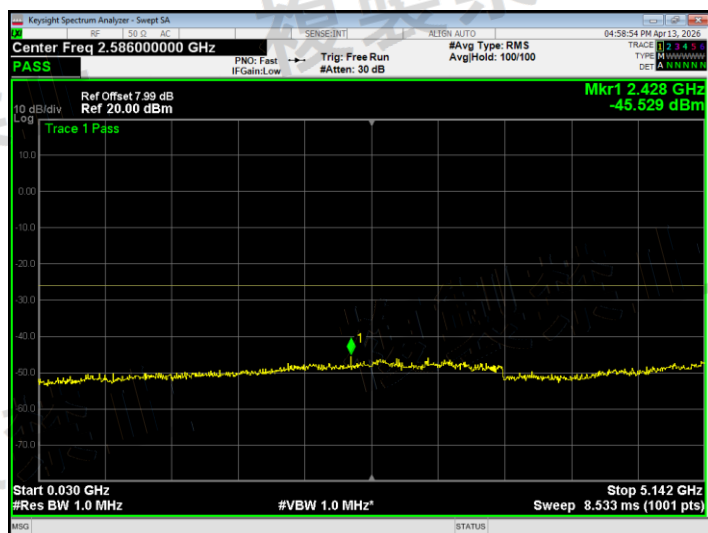
Tx. Spurious NVNT a 5240MHz Ant1 @ 5260MHz-5266.7MHz



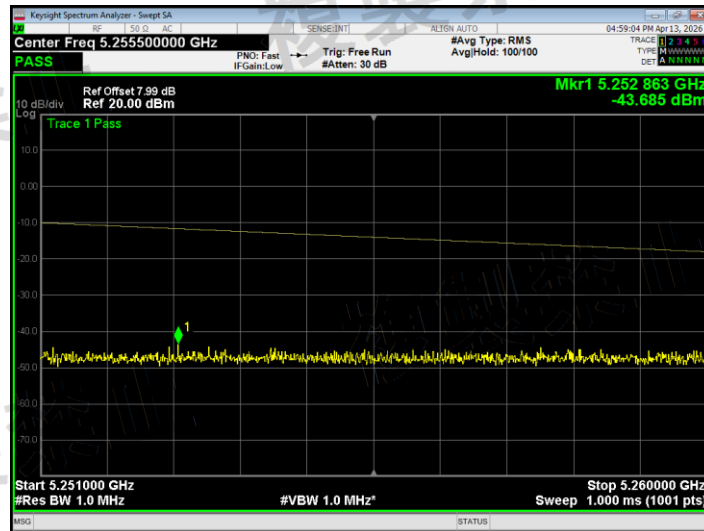
Tx. Spurious NVNT a 5240MHz Ant1 @ 5266.7MHz-26000MHz



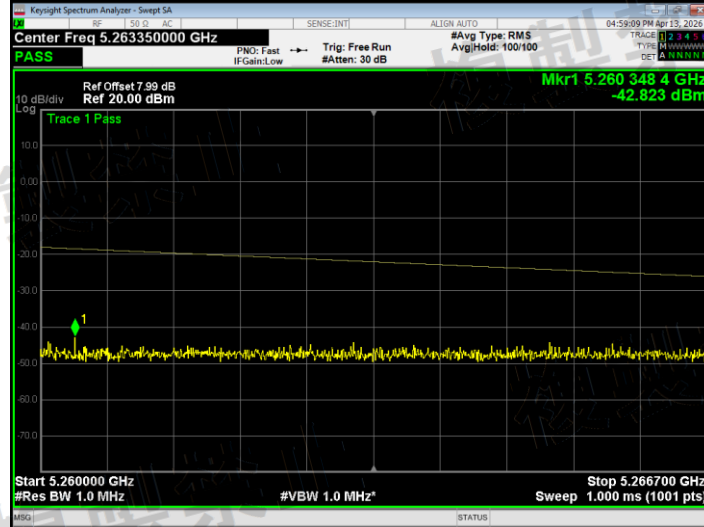
Tx. Spurious NVNT n20 5180MHz Ant1 @ 30MHz-5142MHz



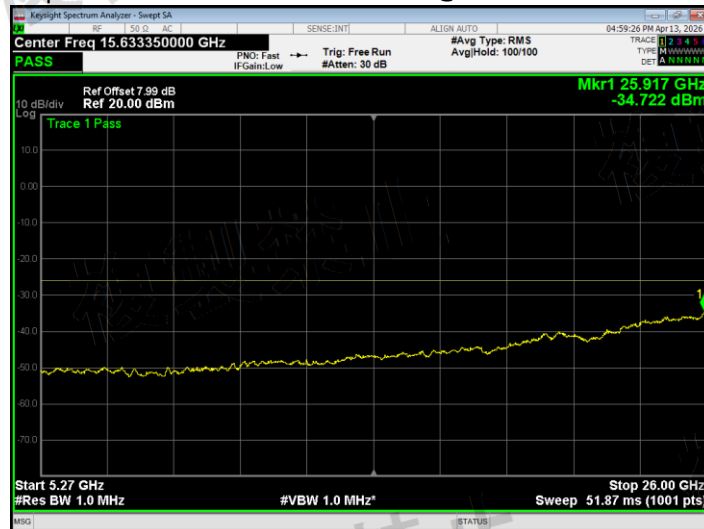
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5251MHz-5260MHz



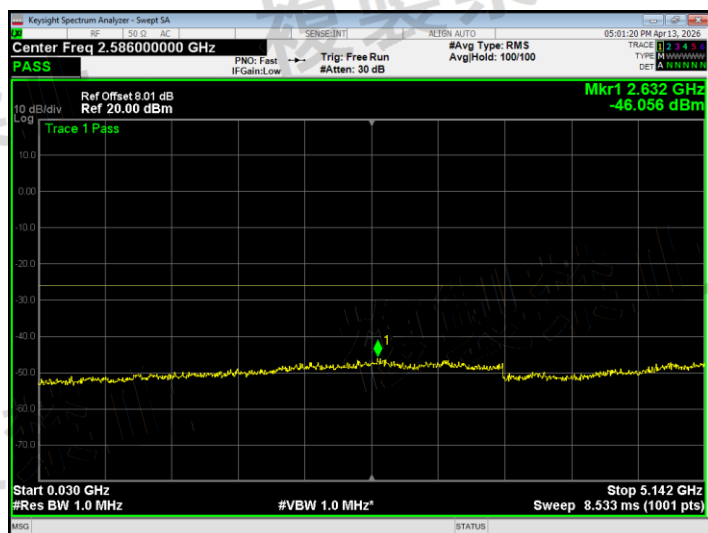
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5260MHz-5266.7MHz



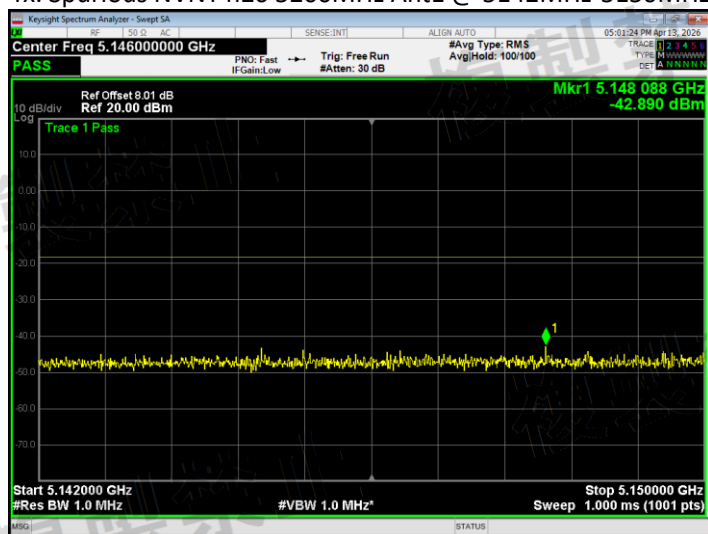
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5266.7MHz-26000MHz



Tx. Spurious NVNT n20 5200MHz Ant1 @ 30MHz-5142MHz



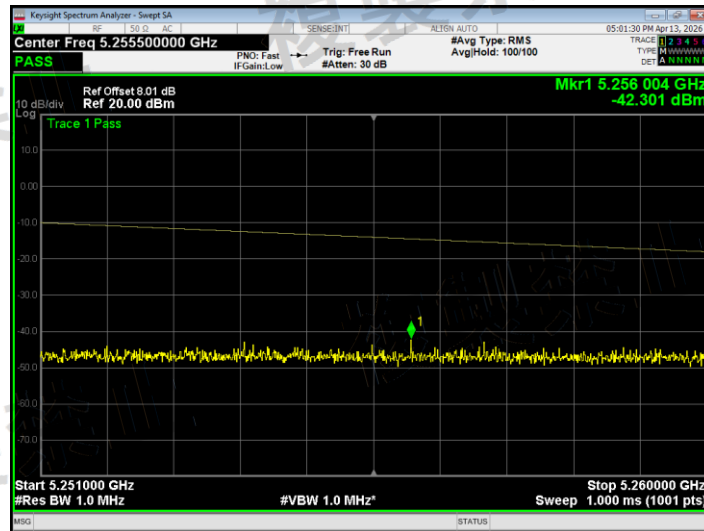
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5142MHz-5150MHz



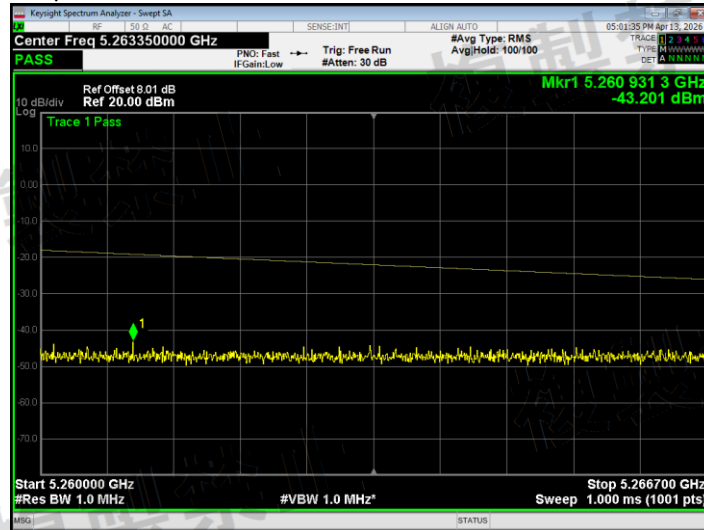
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5250MHz-5251MHz



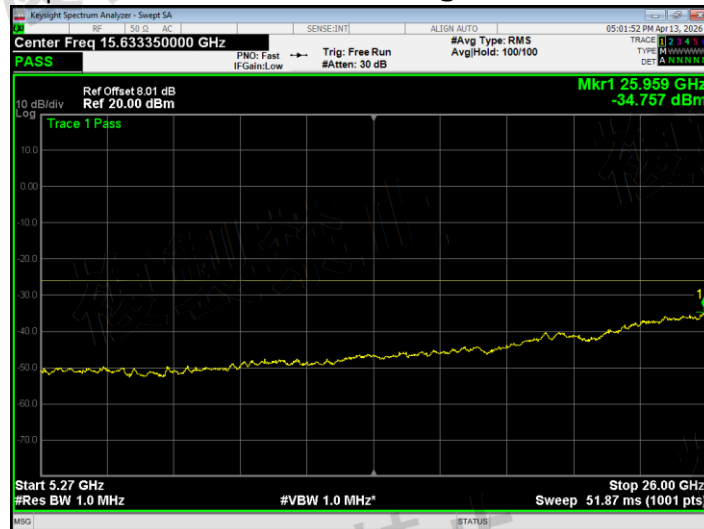
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5251MHz-5260MHz



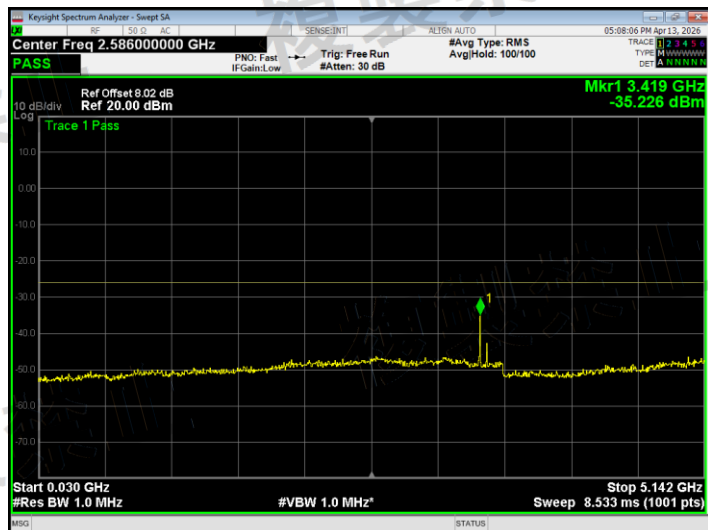
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5260MHz-5266.7MHz



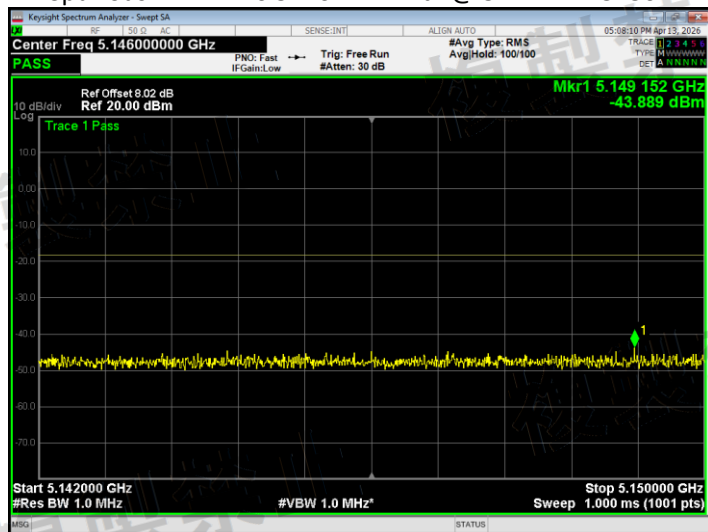
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5266.7MHz-26000MHz



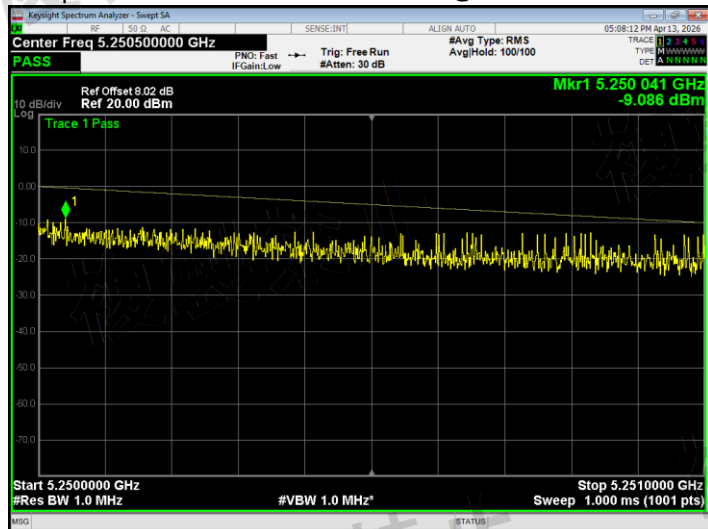
Tx. Spurious NVNT n20 5240MHz Ant1 @ 30MHz-5142MHz



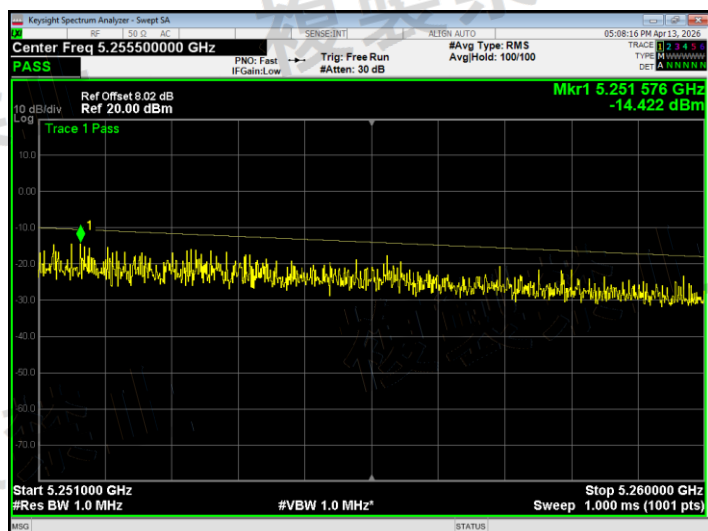
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5142MHz-5150MHz



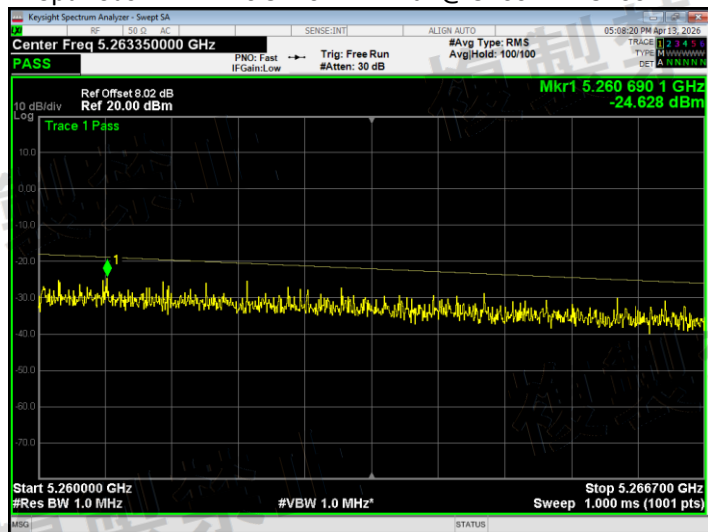
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5250MHz-5251MHz



Tx. Spurious NVNT n20 5240MHz Ant1 @ 5251MHz-5260MHz



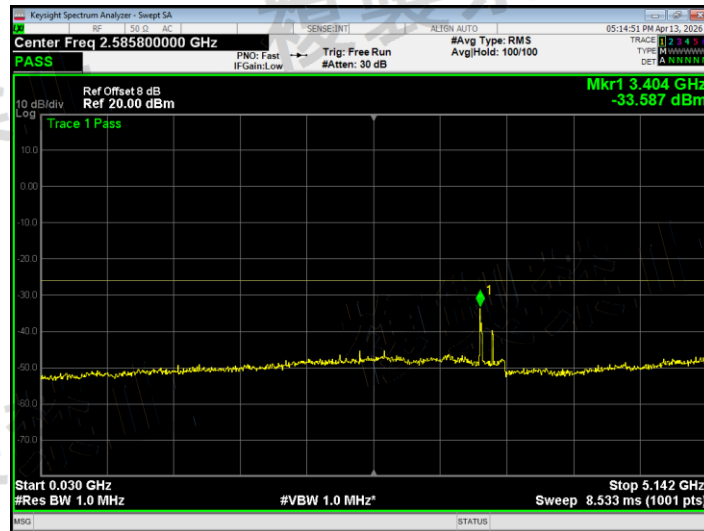
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5260MHz-5266.7MHz



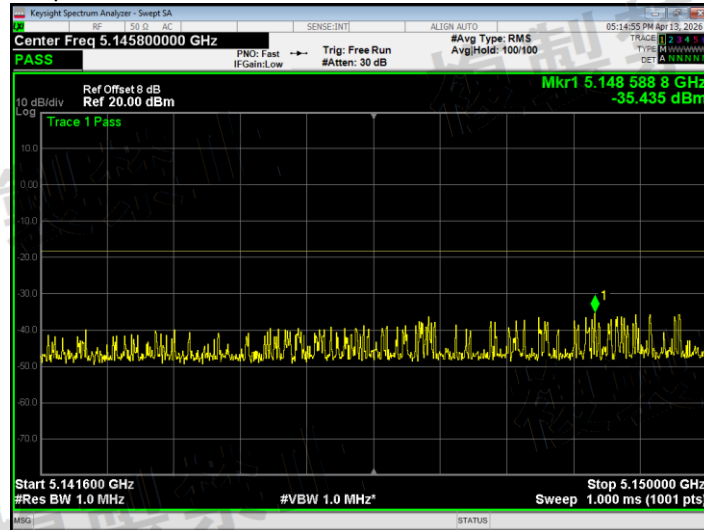
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5266.7MHz-26000MHz



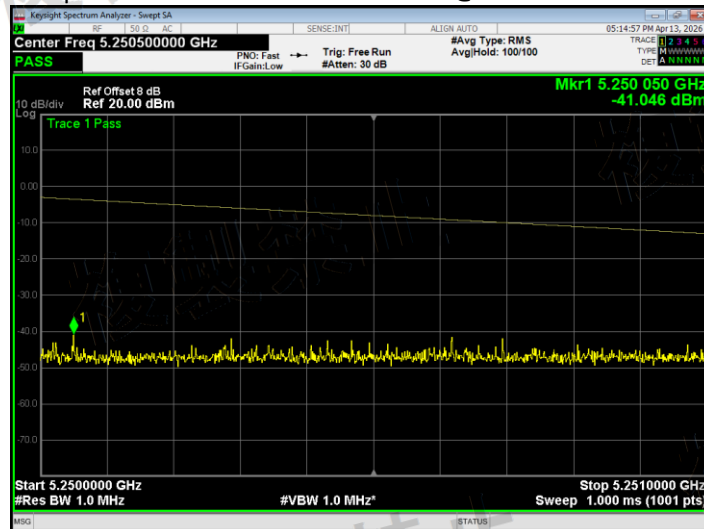
Tx. Spurious NVNT n40 5190MHz Ant1 @ 30MHz-5141.6MHz



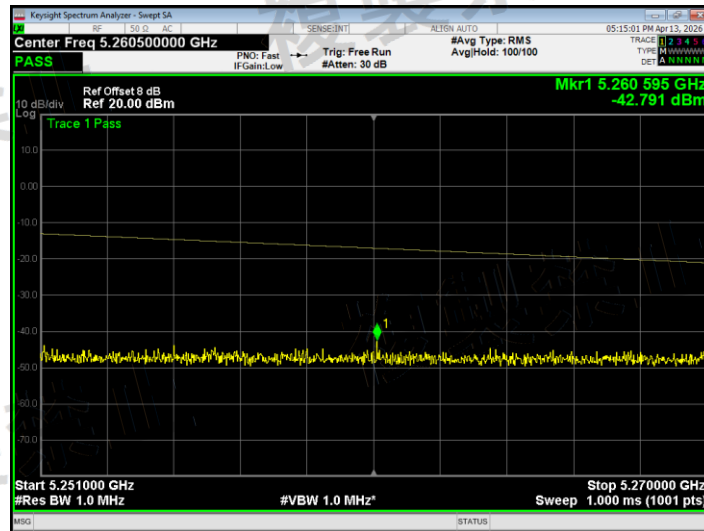
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5141.6MHz-5150MHz



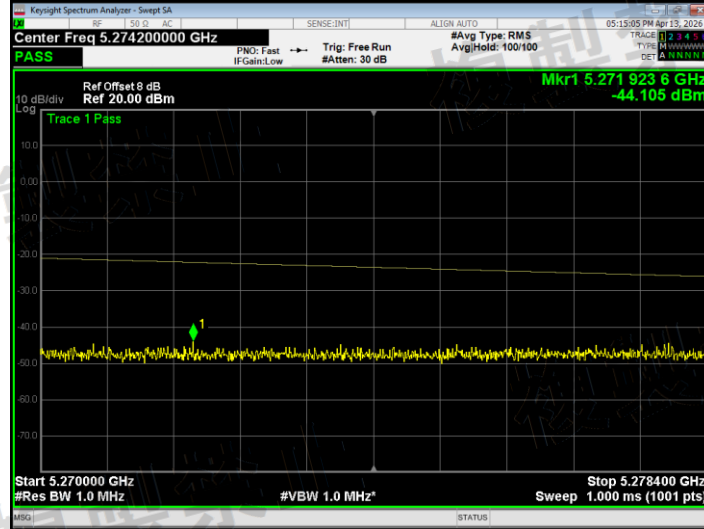
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5250MHz-5251MHz



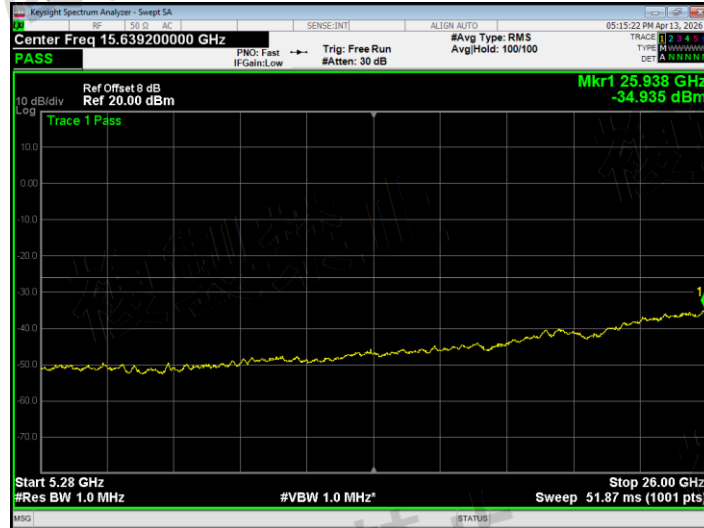
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5251MHz-5270MHz



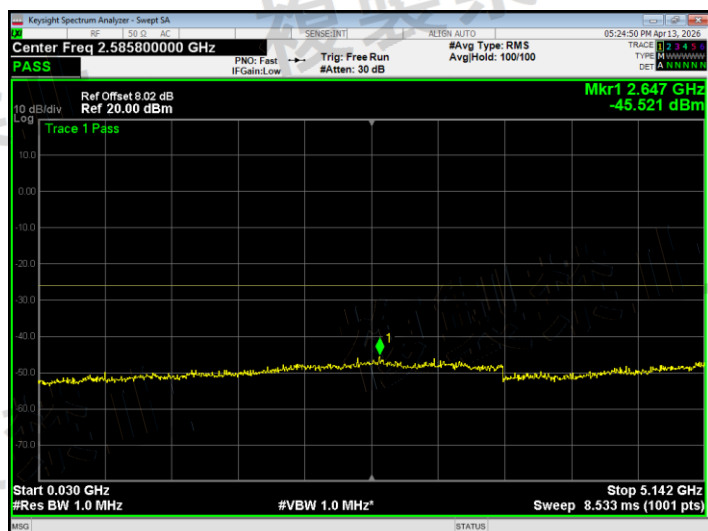
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5270MHz-5278.4MHz



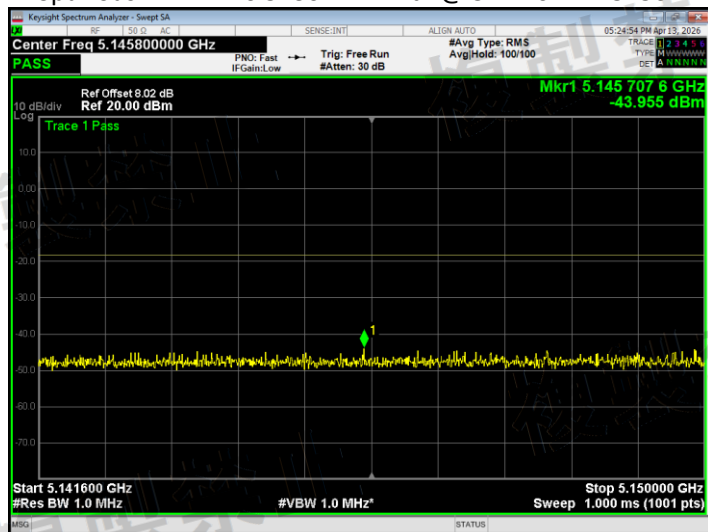
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5278.4MHz-26000MHz



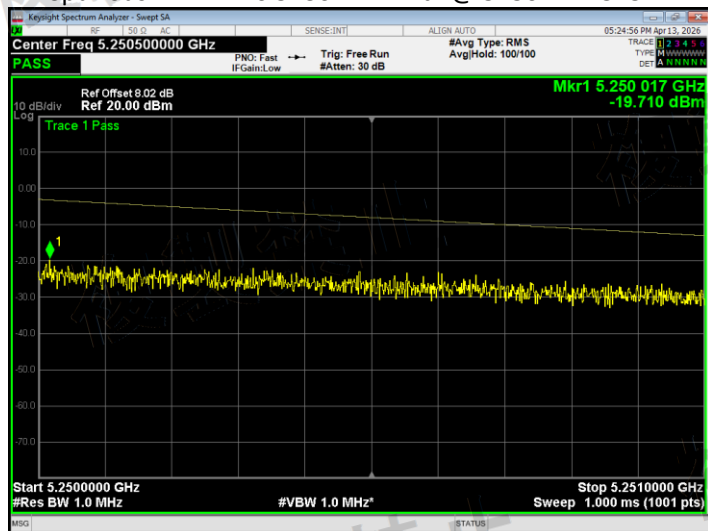
Tx. Spurious NVNT n40 5230MHz Ant1 @ 30MHz-5141.6MHz



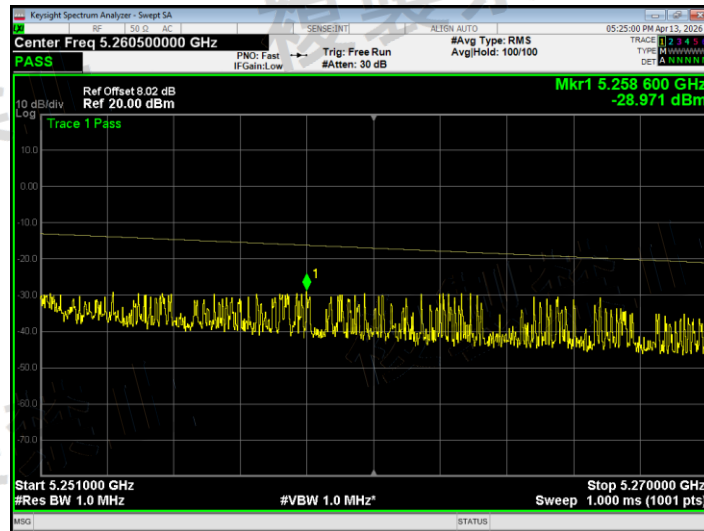
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5141.6MHz-5150MHz



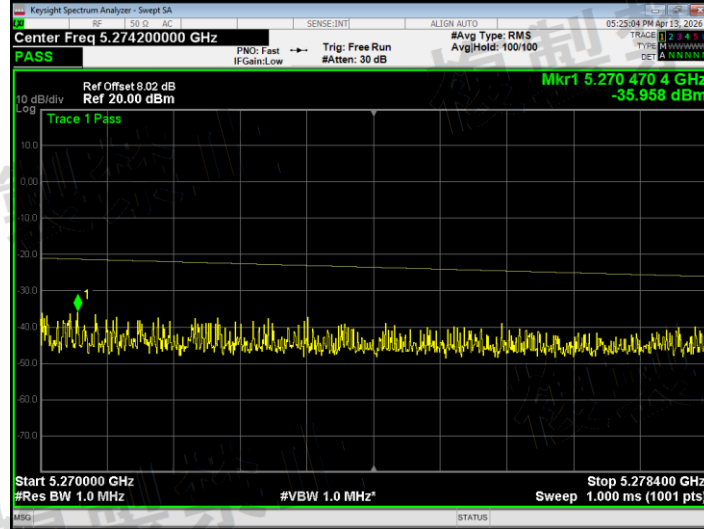
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5250MHz-5251MHz



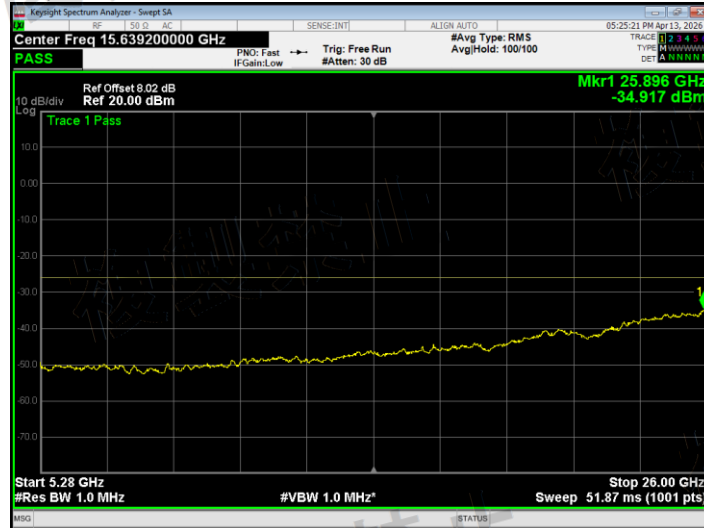
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5251MHz-5270MHz



Tx. Spurious NVNT n40 5230MHz Ant1 @ 5270MHz-5278.4MHz



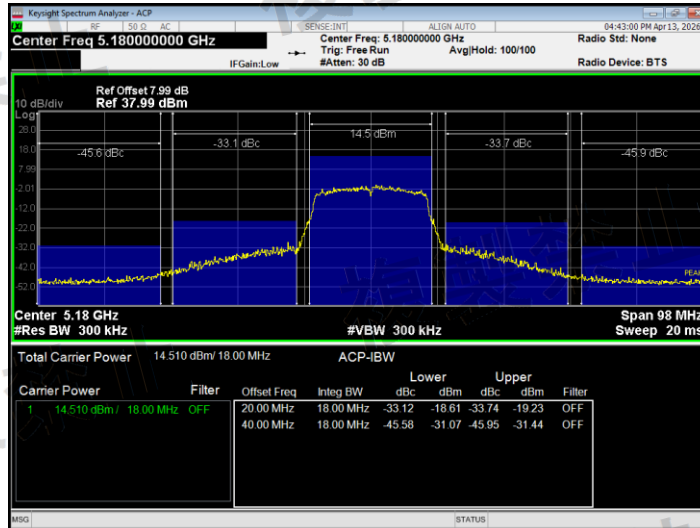
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5278.4MHz-26000MHz



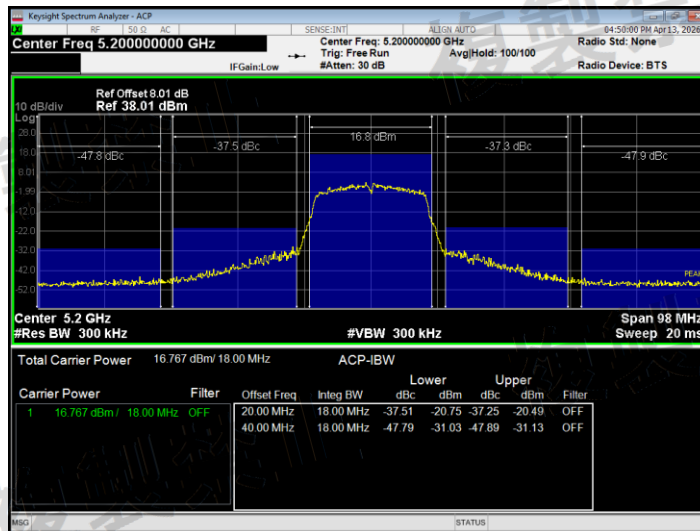
7. ACP Measure

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	SISO	5180	ANT1	Refer To Test Graph		Pass
			5200	ANT1	Refer To Test Graph		Pass
			5240	ANT1	Refer To Test Graph		Pass
	802.11n (HT20)	SISO	5180	ANT1	Refer To Test Graph		Pass
			5200	ANT1	Refer To Test Graph		Pass
			5240	ANT1	Refer To Test Graph		Pass
	802.11n (HT40)	SISO	5190	ANT1	Refer To Test Graph		Pass
			5230	ANT1	Refer To Test Graph		Pass

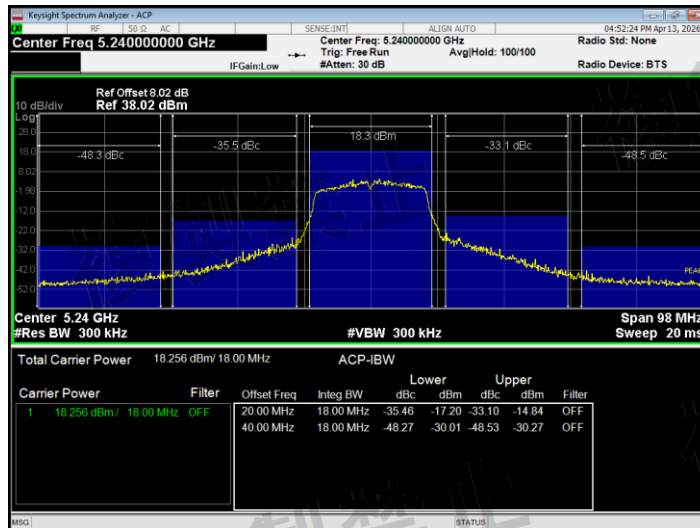
ACEP NVNT a 5180MHz Ant1



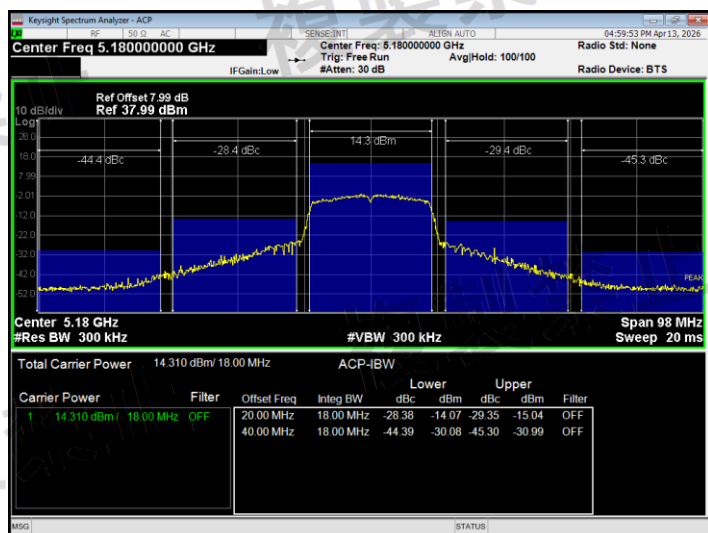
ACEP NVNT a 5200MHz Ant1



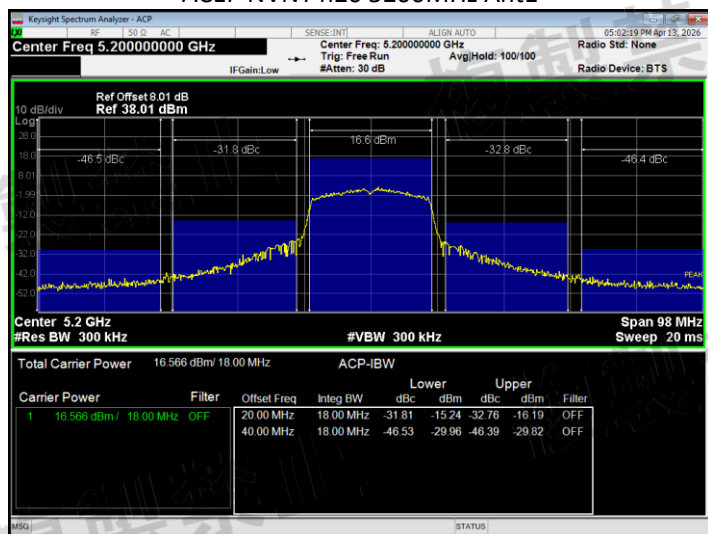
ACEP NVNT a 5240MHz Ant1



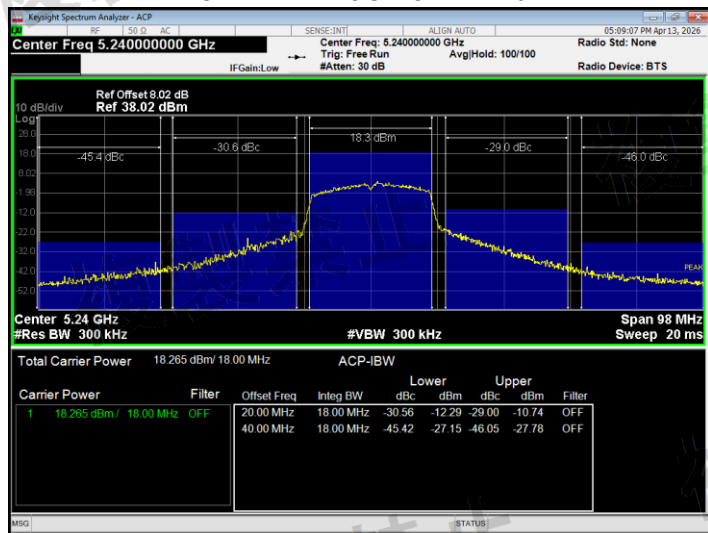
ACEP NVNT n20 5180MHz Ant1



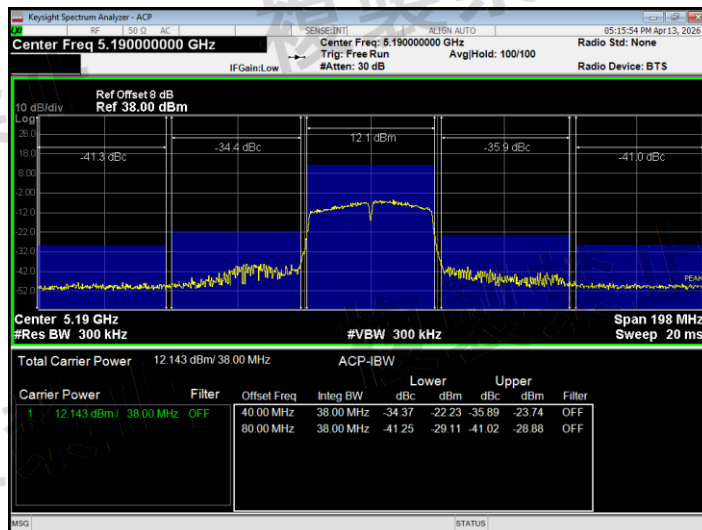
ACEP NVNT n20 5200MHz Ant1



ACEP NVNT n20 5240MHz Ant1



ACEP NVNT n40 5190MHz Ant1



ACEP NVNT n40 5230MHz Ant1

