



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Mobile phone

Test Model: F175

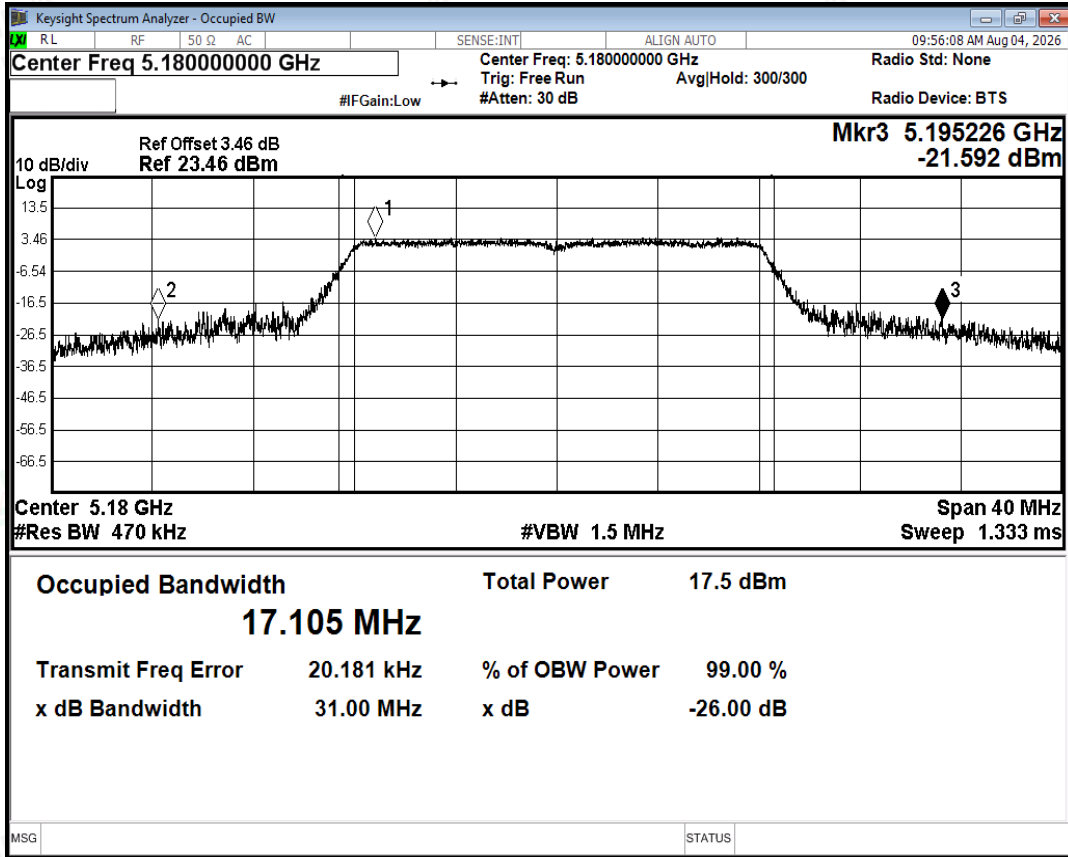
Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

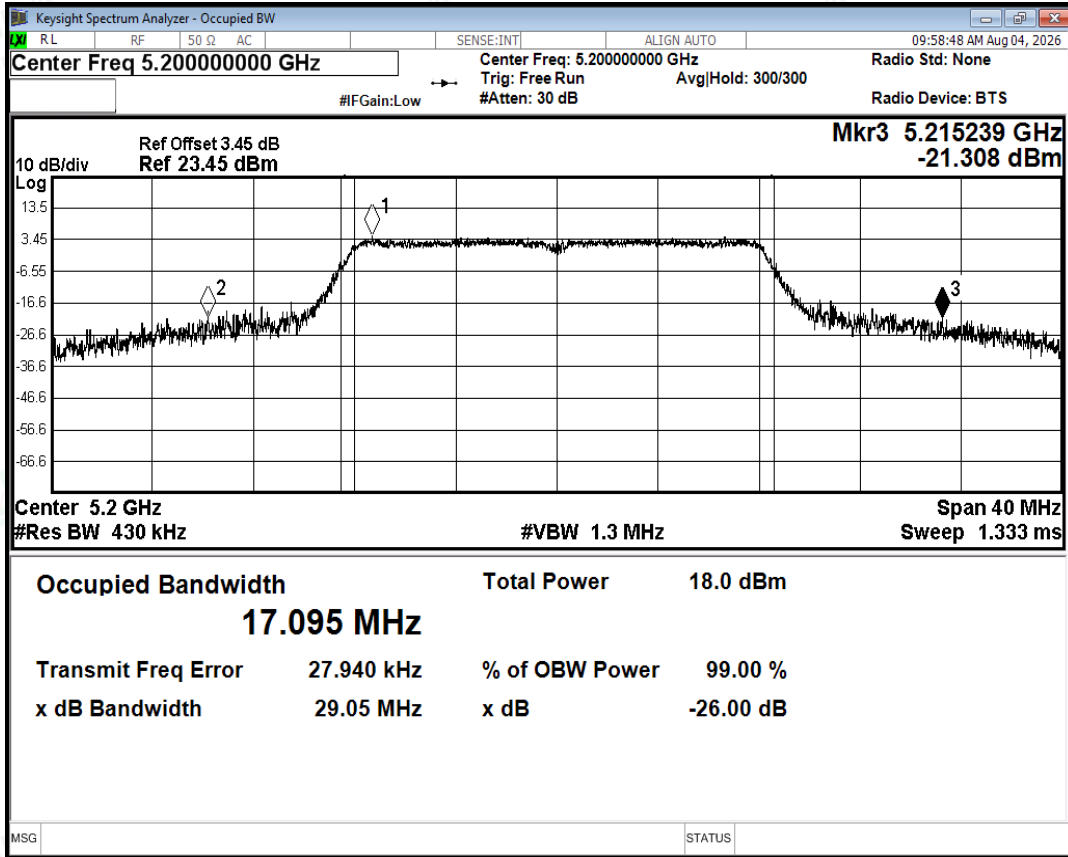


D.1 -26dB Bandwidth

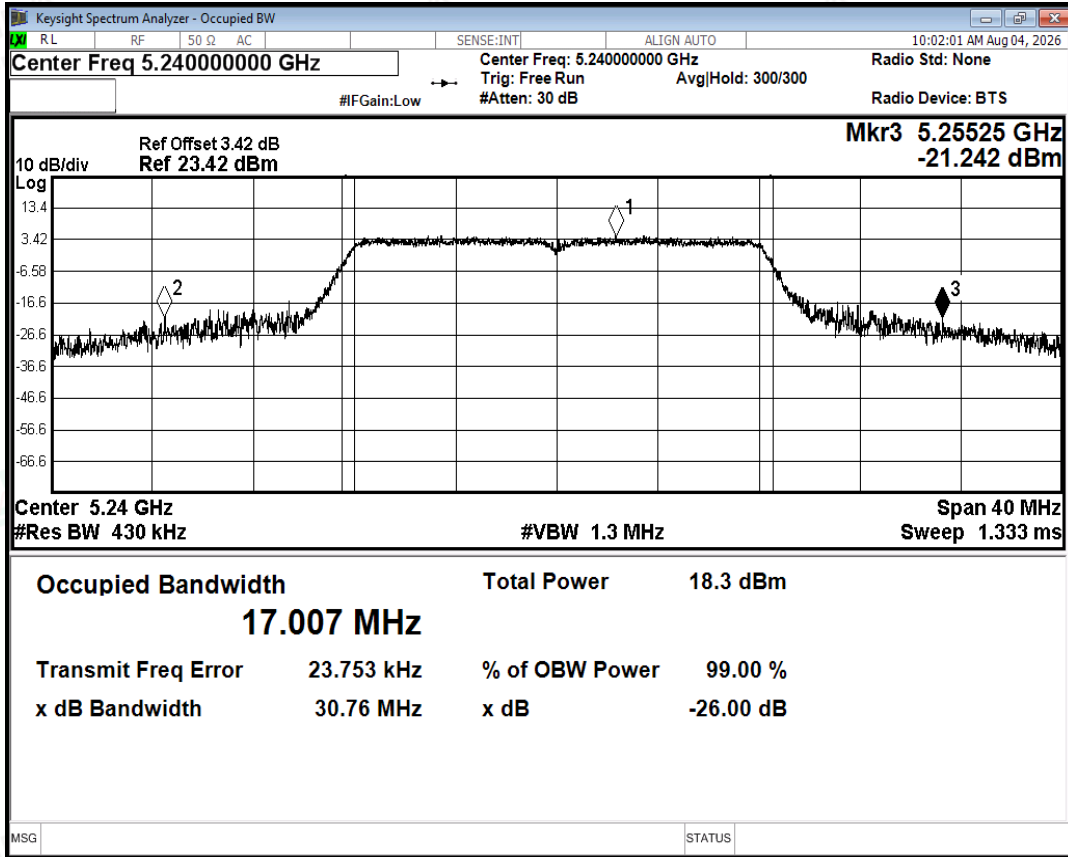
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	31
NVNT	a	5200	Ant1	29.05
NVNT	a	5240	Ant1	30.76
NVNT	n20	5180	Ant1	34.76
NVNT	n20	5200	Ant1	30.13
NVNT	n20	5240	Ant1	32.17
NVNT	n40	5190	Ant1	46.49
NVNT	n40	5230	Ant1	43.97
NVNT	ac20	5180	Ant1	30.46
NVNT	ac20	5200	Ant1	33.11
NVNT	ac20	5240	Ant1	35.31
NVNT	ac40	5190	Ant1	46.78
NVNT	ac40	5230	Ant1	47.1
NVNT	ac80	5210	Ant1	88.81
NVNT	ac160	5250	Ant1	166.3



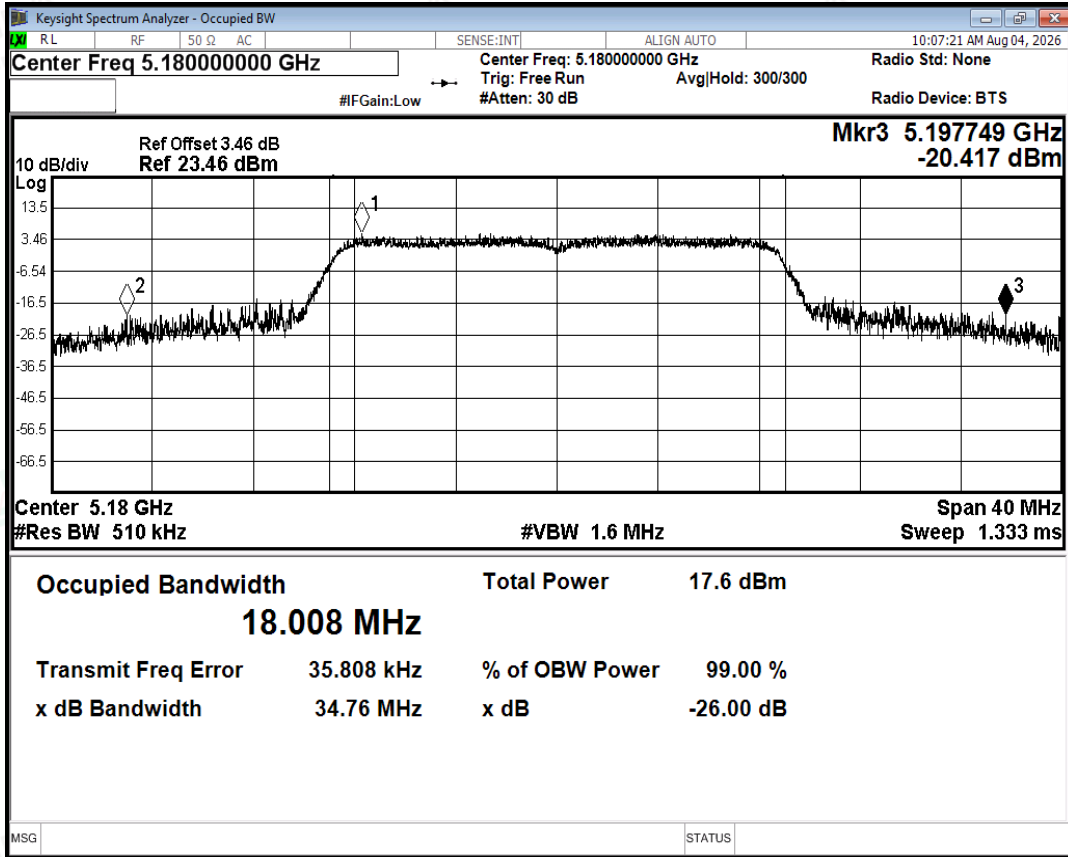
-26dB Bandwidth NVNT a 5180MHz Ant1



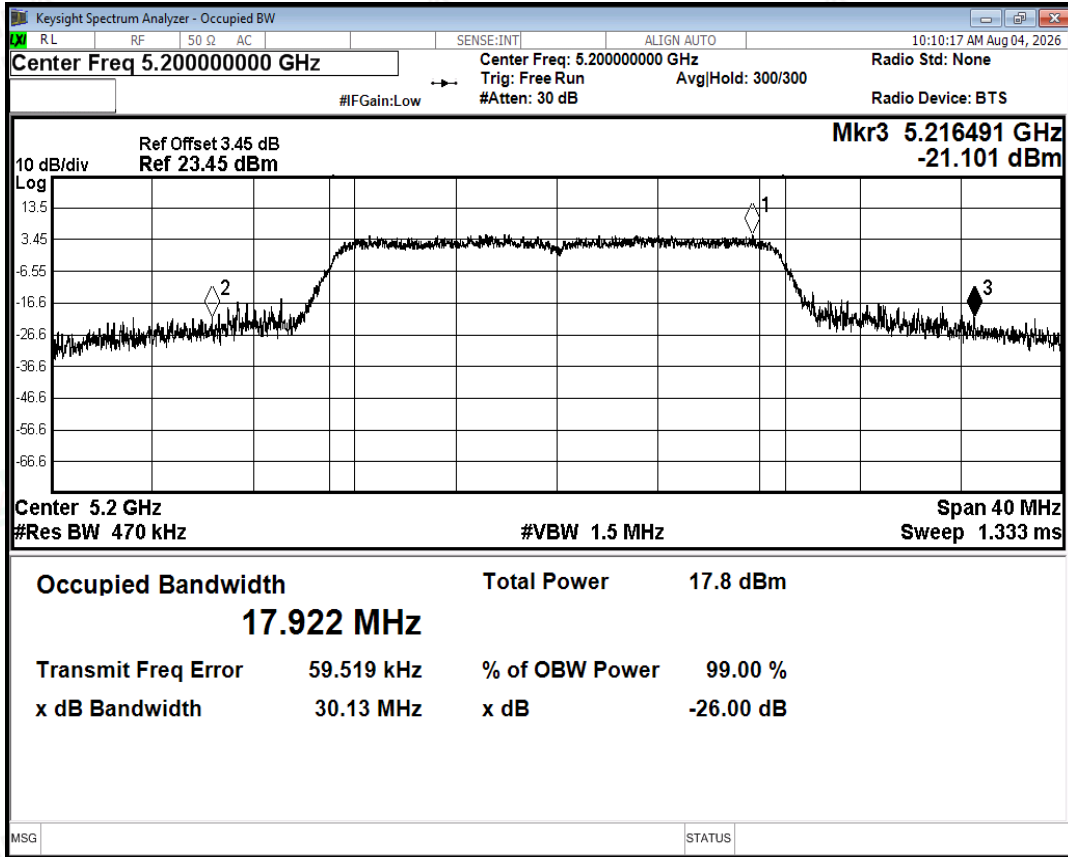
-26dB Bandwidth NVNT a 5200MHz Ant1



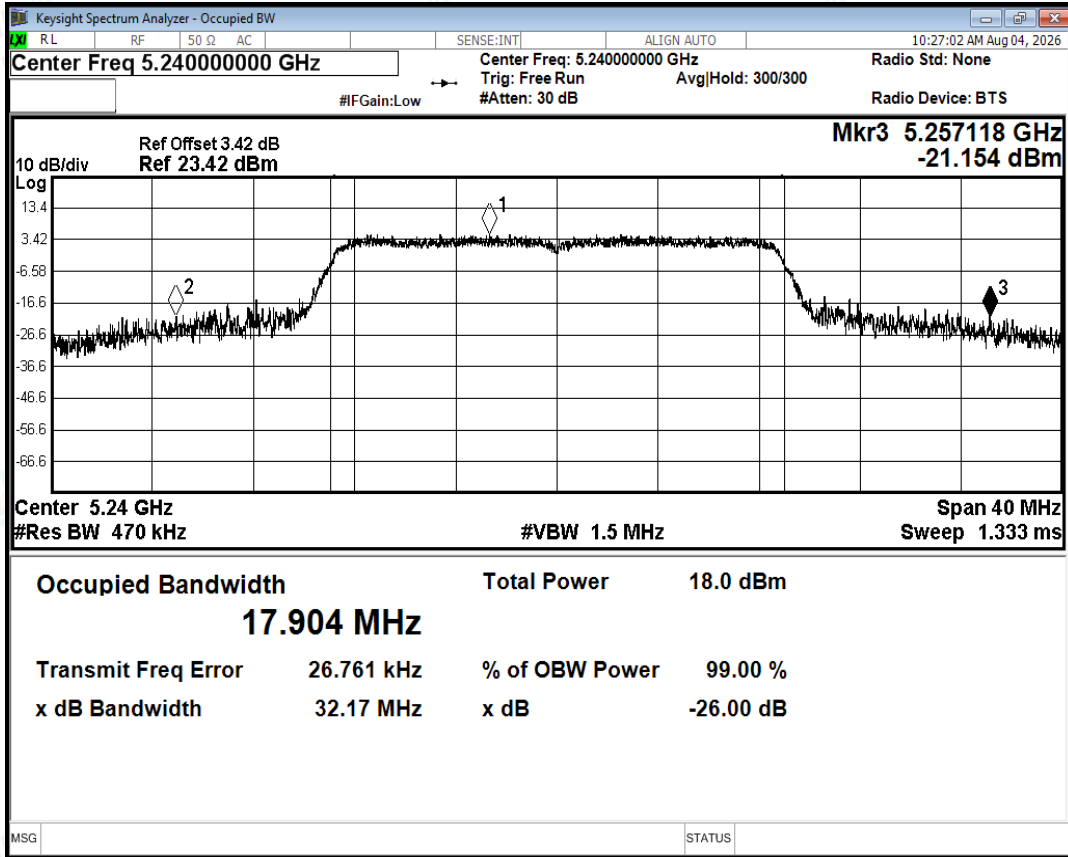
-26dB Bandwidth NVNT a 5240MHz Ant1



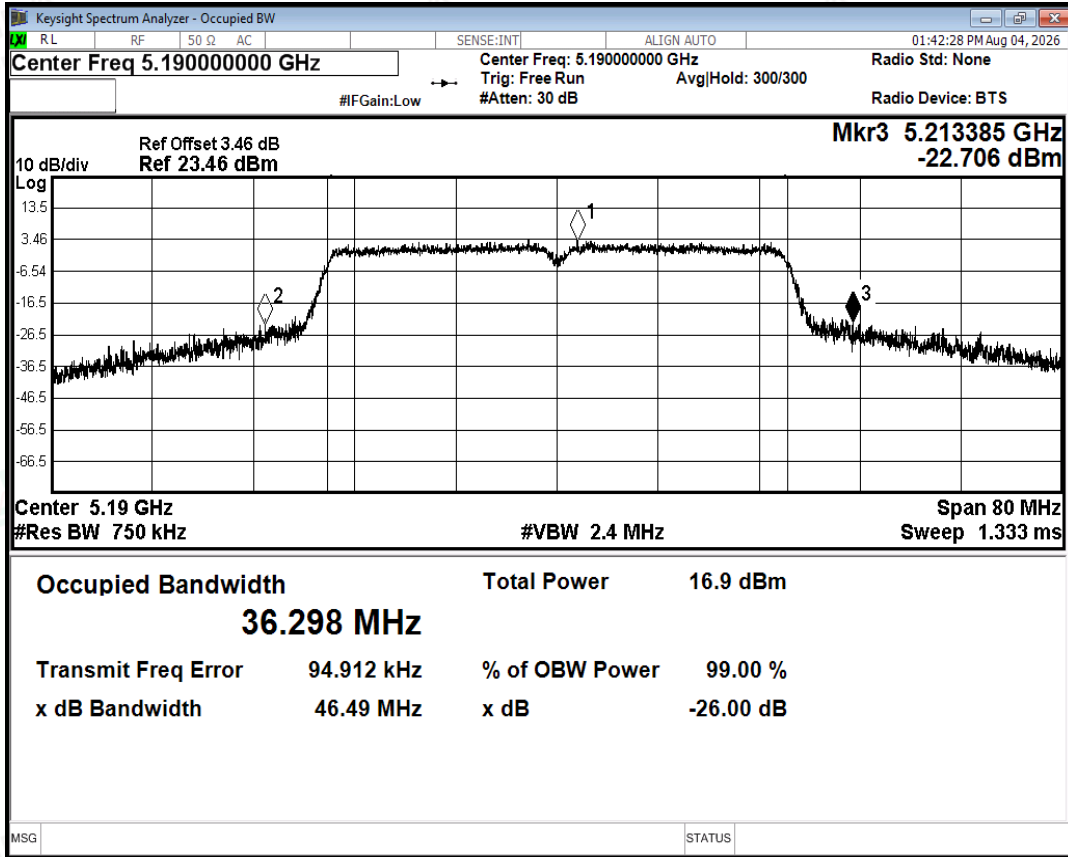
-26dB Bandwidth NVNT n20 5180MHz Ant1



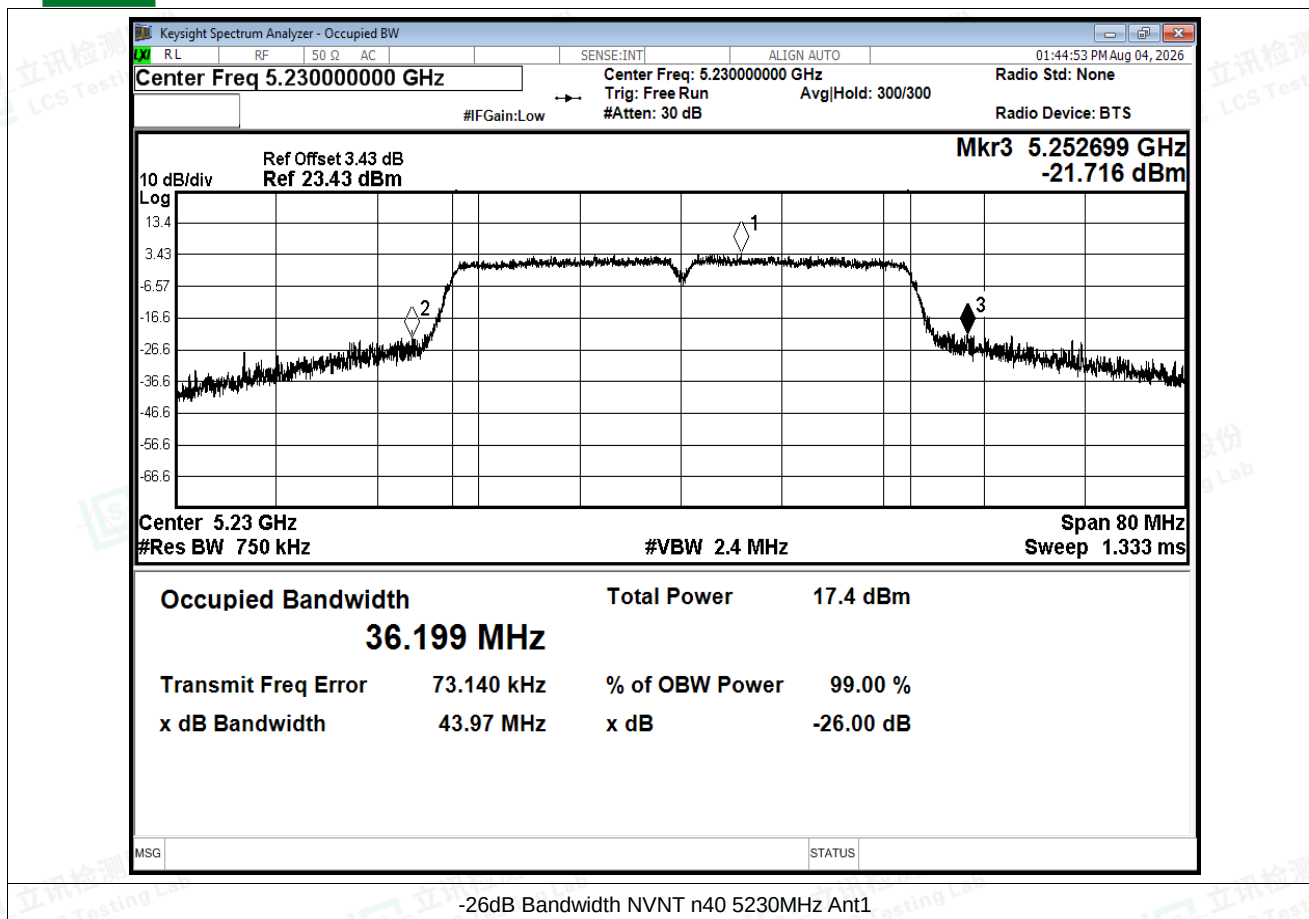
-26dB Bandwidth NVNT n20 5200MHz Ant1

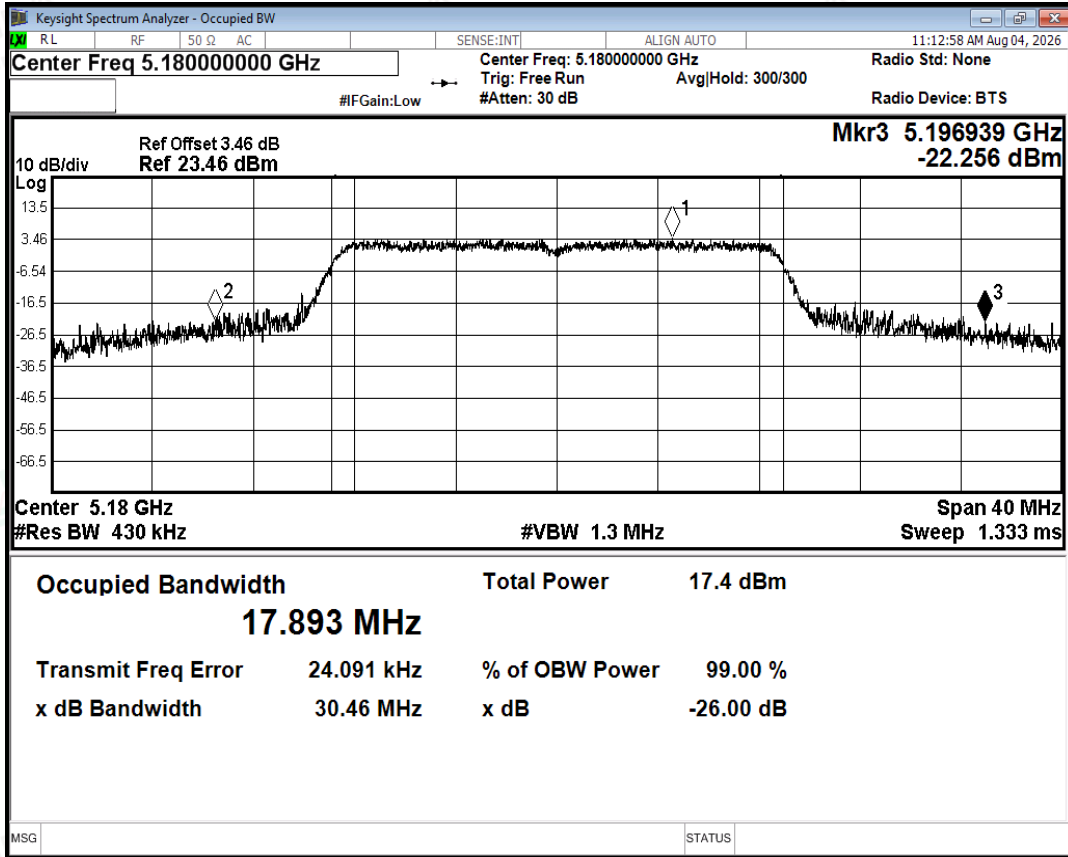


-26dB Bandwidth NVNT n20 5240MHz Ant1

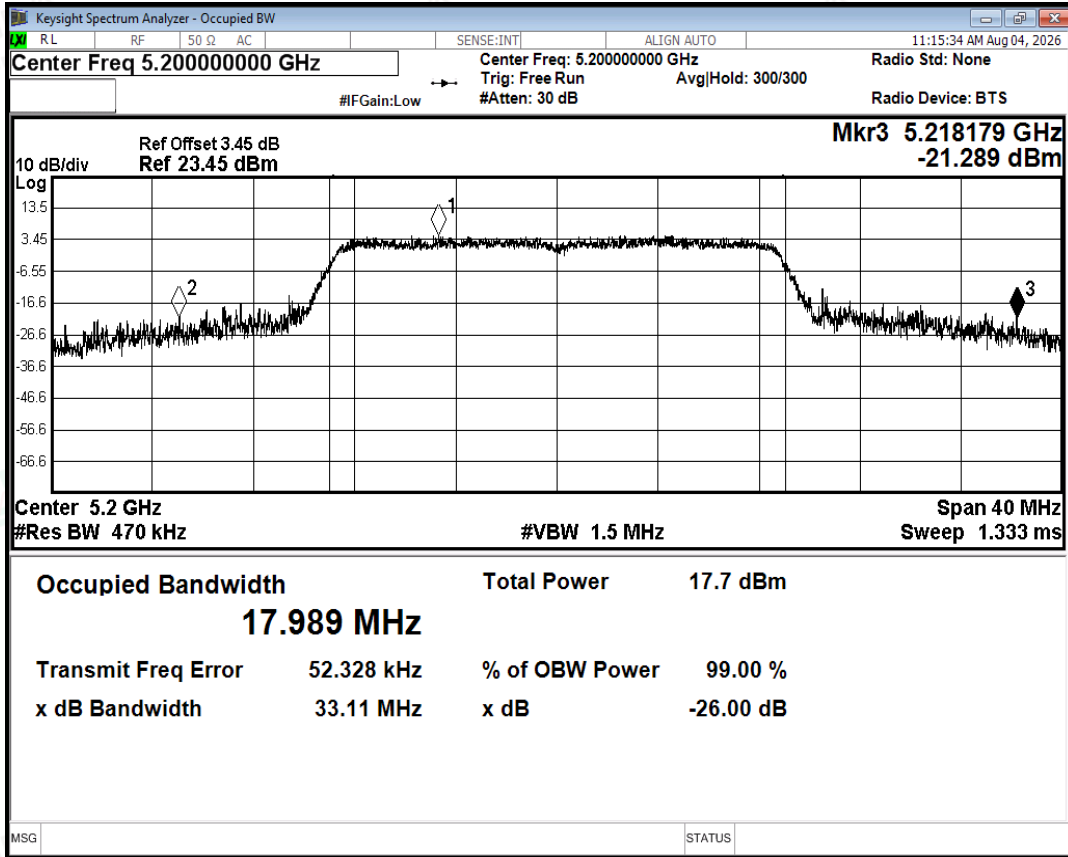


-26dB Bandwidth NVNT n40 5190MHz Ant1

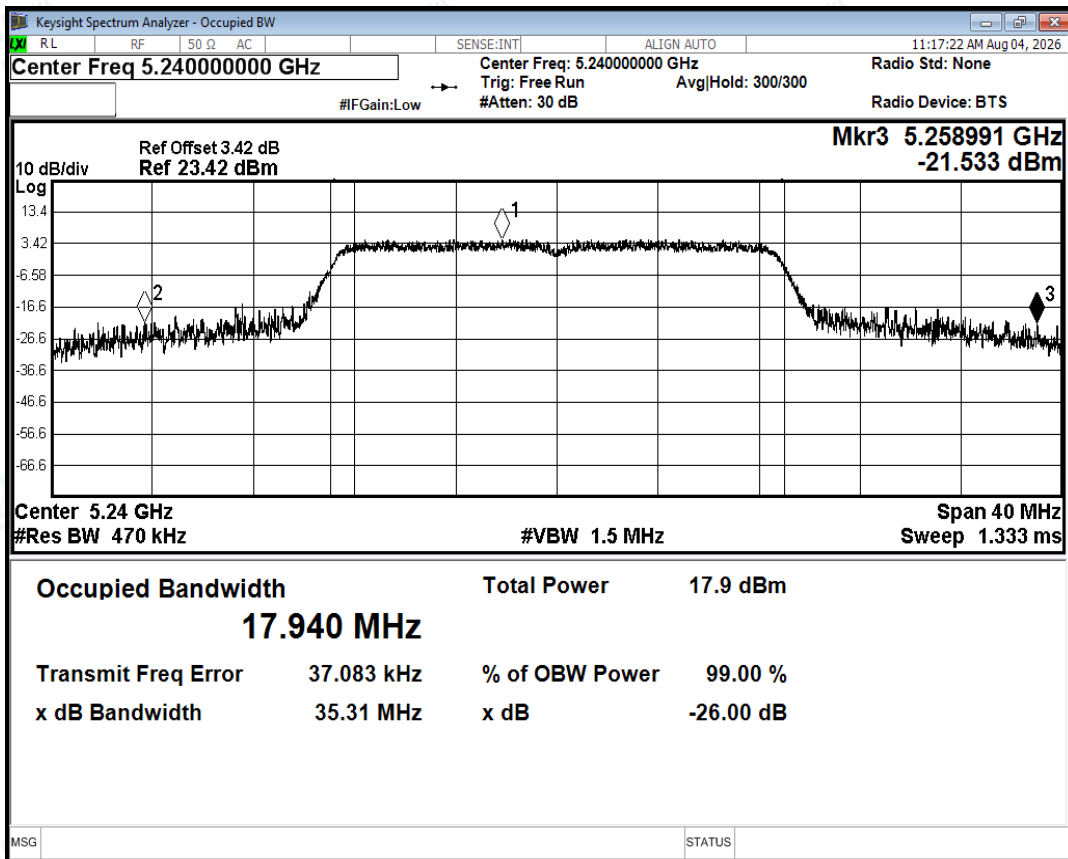




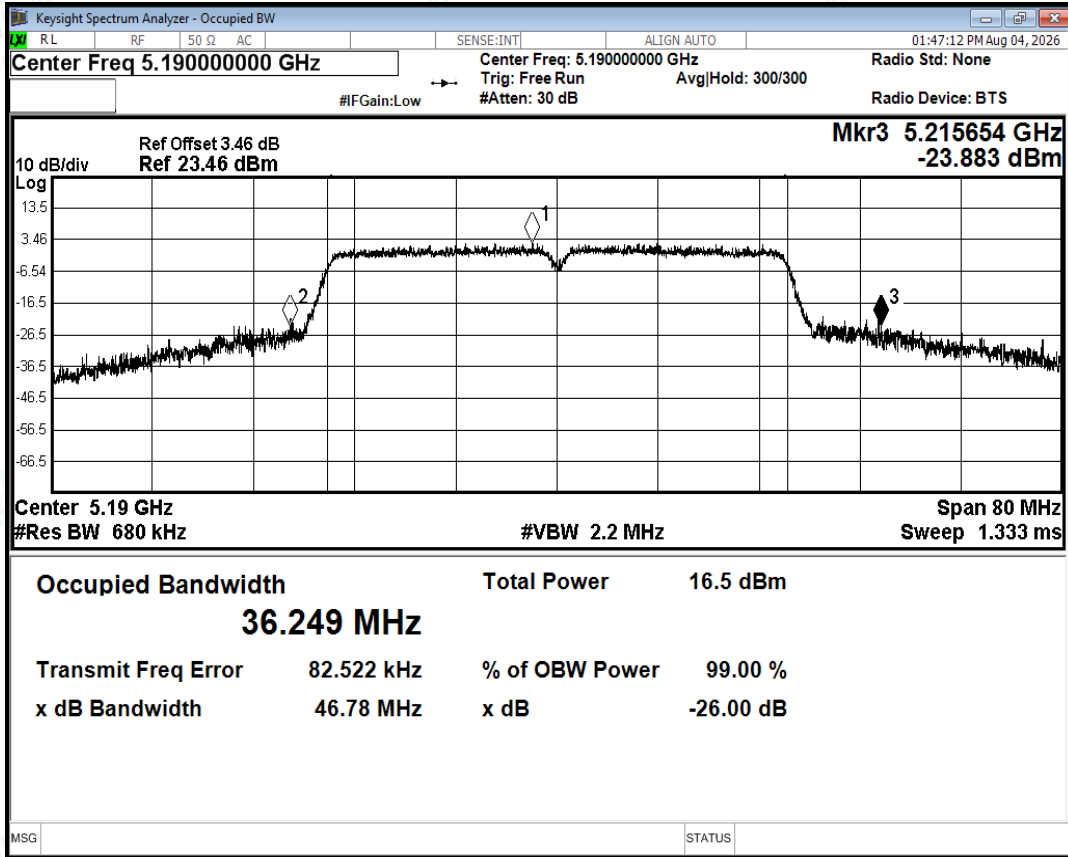
-26dB Bandwidth NVNT ac20 5180MHz Ant1



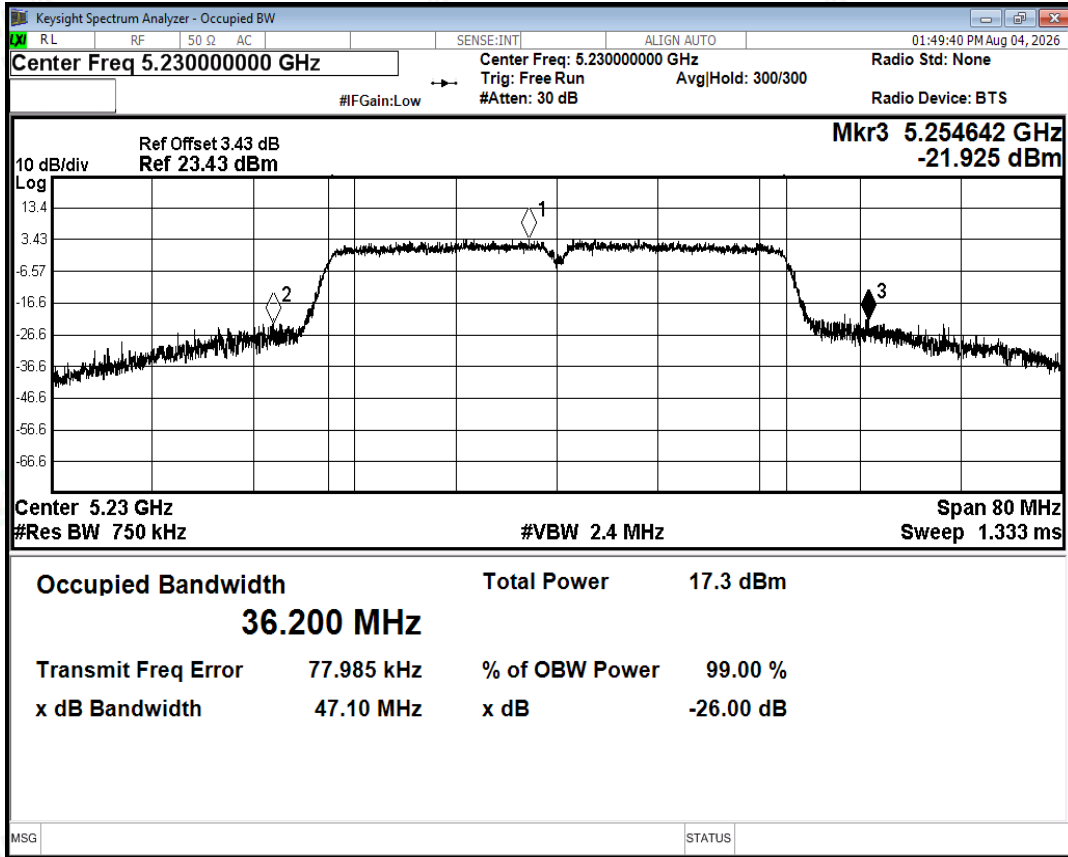
-26dB Bandwidth NVNT ac20 5200MHz Ant1



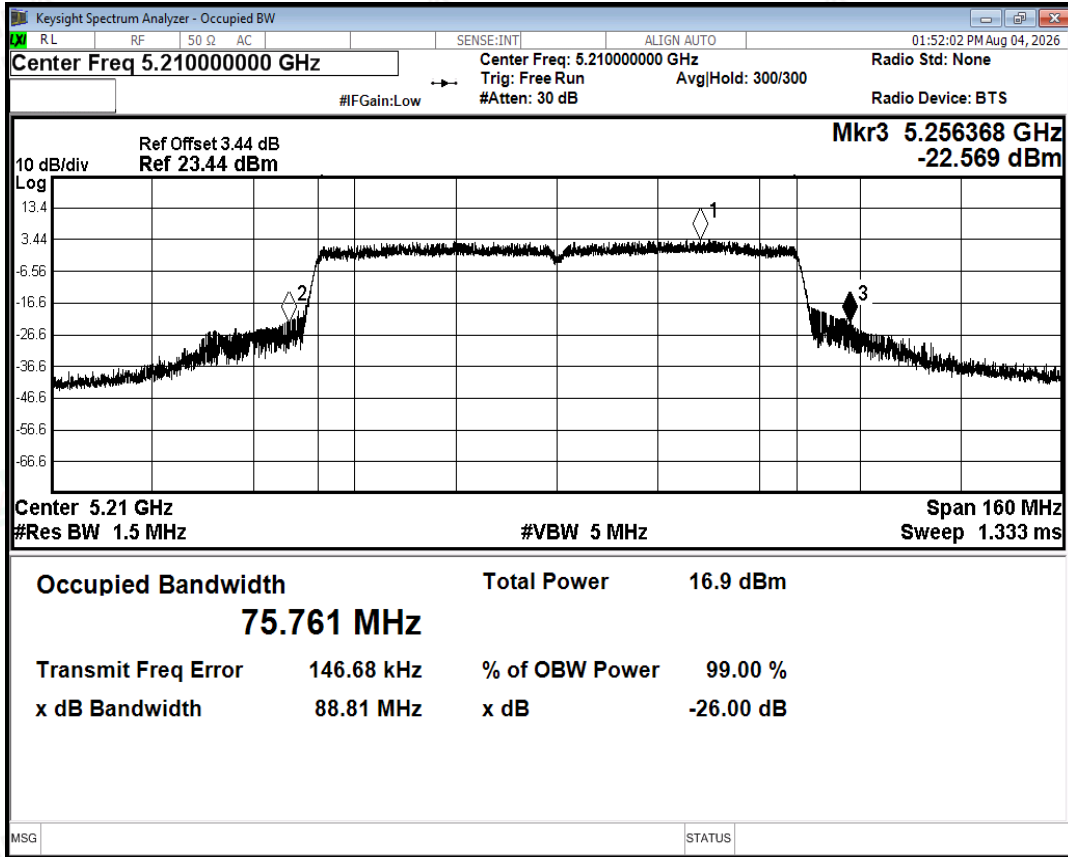
-26dB Bandwidth NVNT ac20 5240MHz Ant1



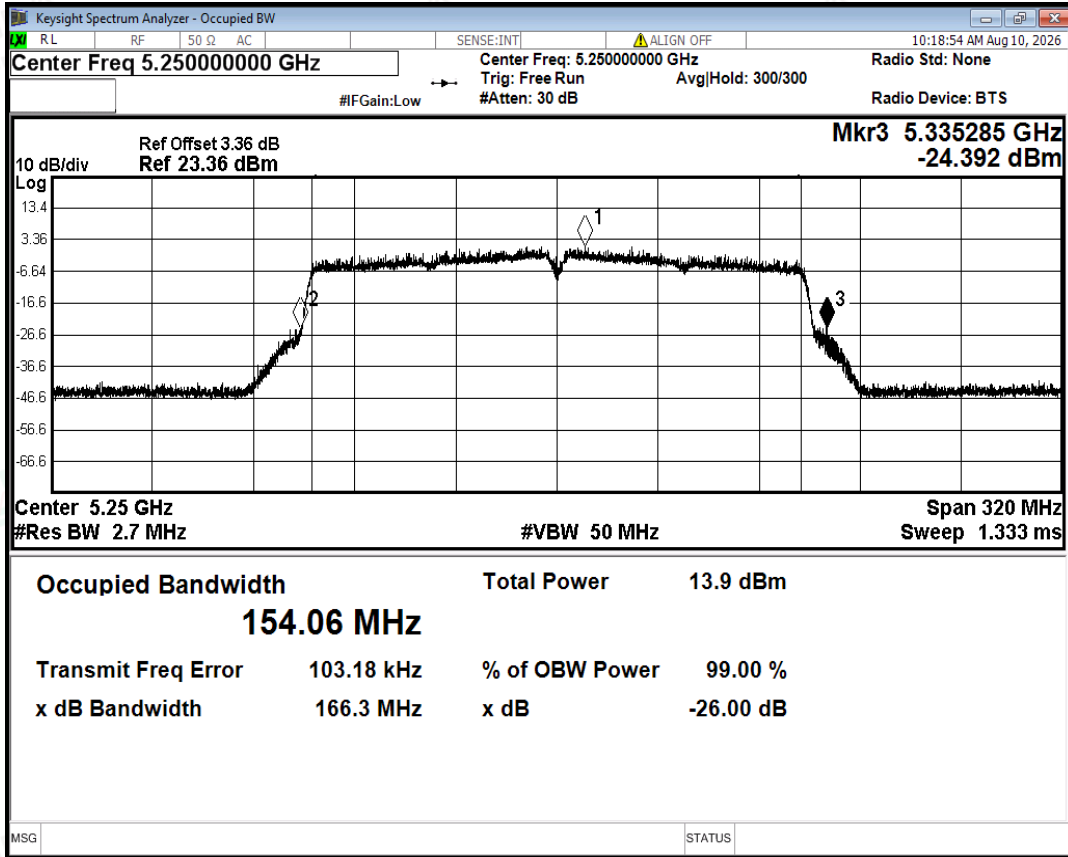
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac160 5250MHz Ant1



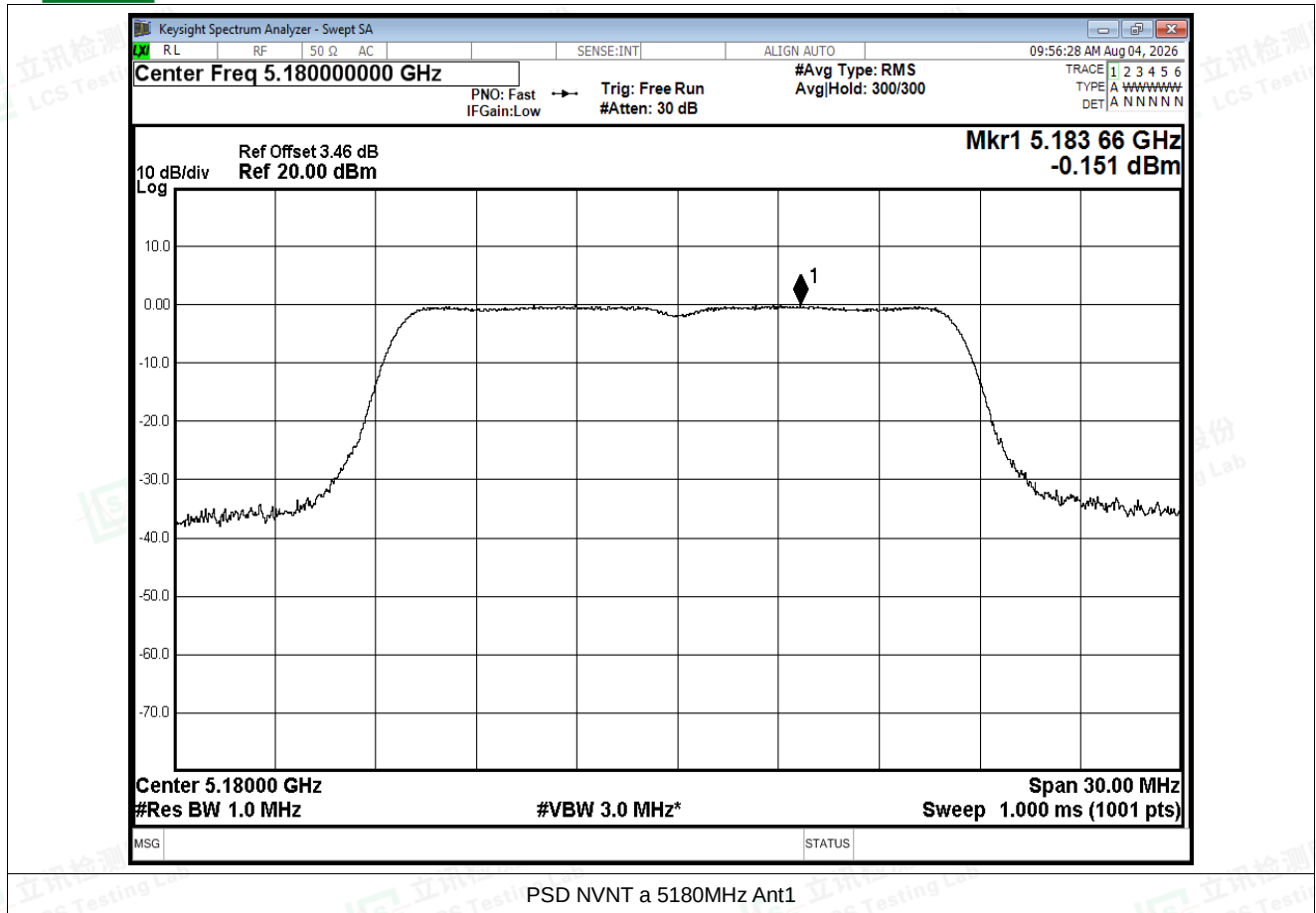
D.2 Maximum Conducted Output Power

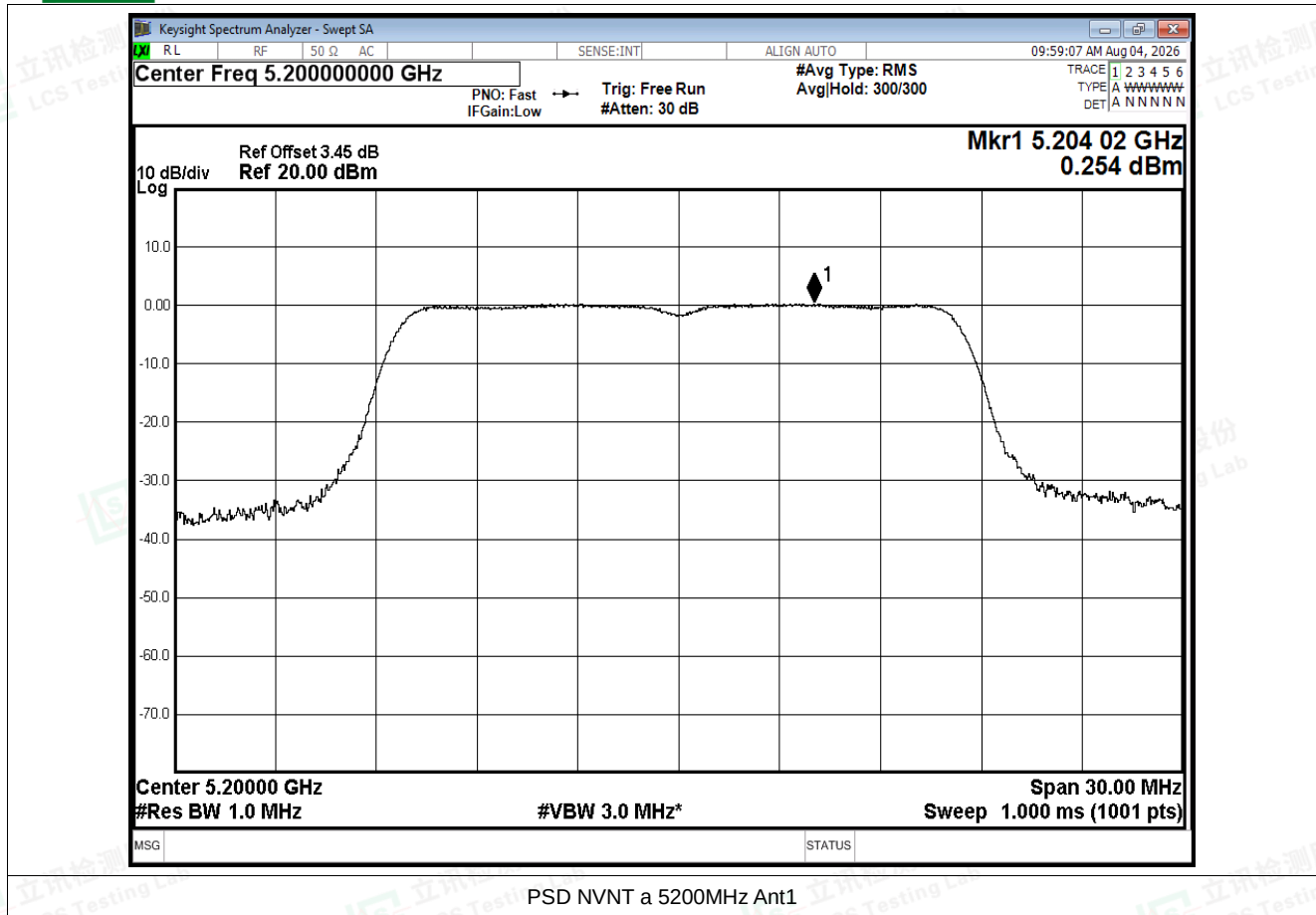
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5180	Ant1	11.11	0.18	11.29	24	Pass
NVNT	a	5200	Ant1	11.56	0.21	11.77	24	Pass
NVNT	a	5240	Ant1	11.93	0.18	12.11	24	Pass
NVNT	n20	5180	Ant1	10.86	0.22	11.08	24	Pass
NVNT	n20	5200	Ant1	10.91	0.25	11.16	24	Pass
NVNT	n20	5240	Ant1	11.34	0.25	11.59	24	Pass
NVNT	n40	5190	Ant1	9.52	0.42	9.94	24	Pass
NVNT	n40	5230	Ant1	10.05	0.49	10.54	24	Pass
NVNT	ac20	5180	Ant1	10.69	0.21	10.9	24	Pass
NVNT	ac20	5200	Ant1	10.89	0.21	11.1	24	Pass
NVNT	ac20	5240	Ant1	11.19	0.25	11.44	24	Pass
NVNT	ac40	5190	Ant1	9.37	0.41	9.78	24	Pass
NVNT	ac40	5230	Ant1	10.01	0.49	10.5	24	Pass
NVNT	ac80	5210	Ant1	8.75	0.94	9.69	24	Pass
NVNT	ac160	5250	Ant1	7.88	1.25	9.13	10	Pass

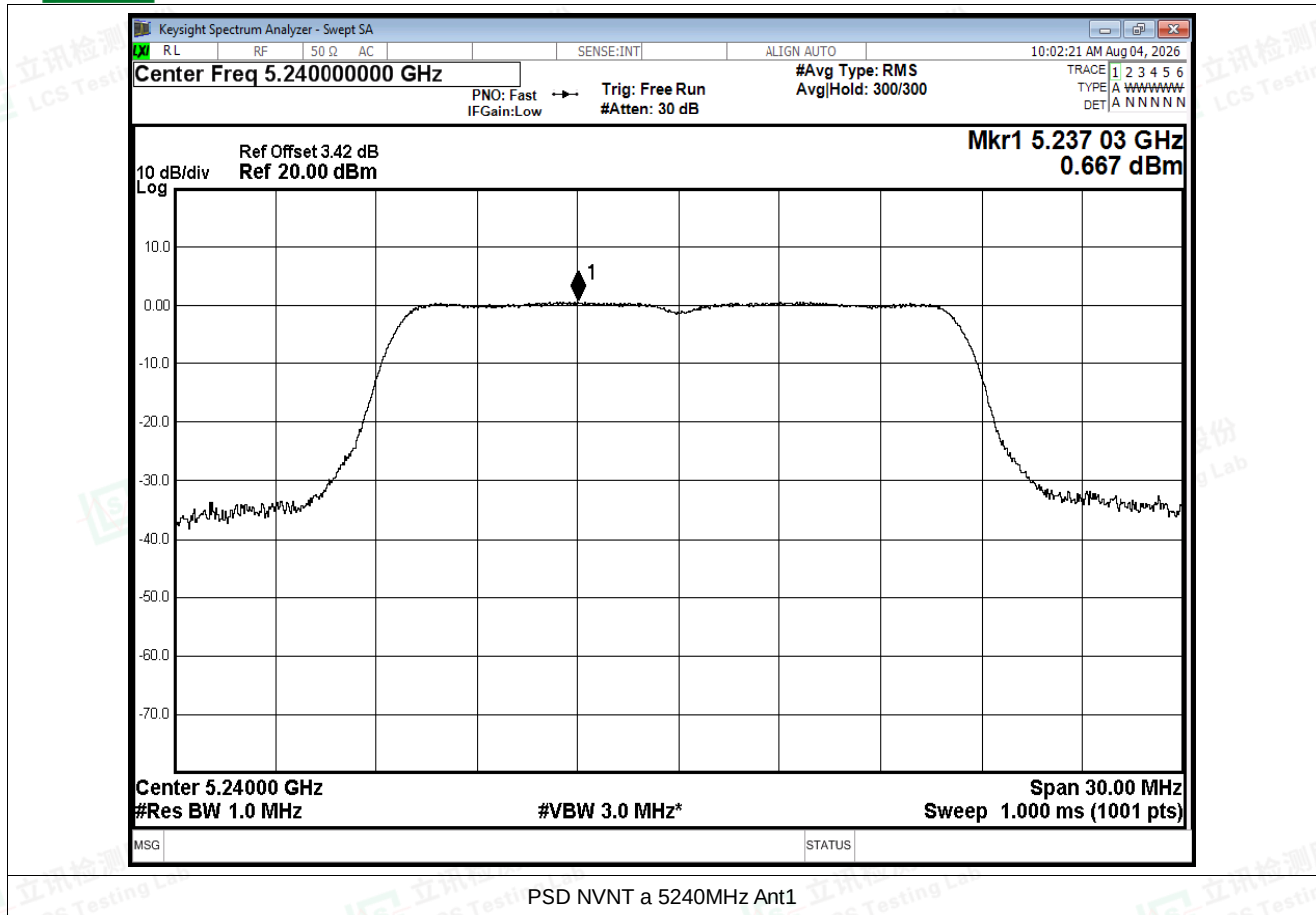


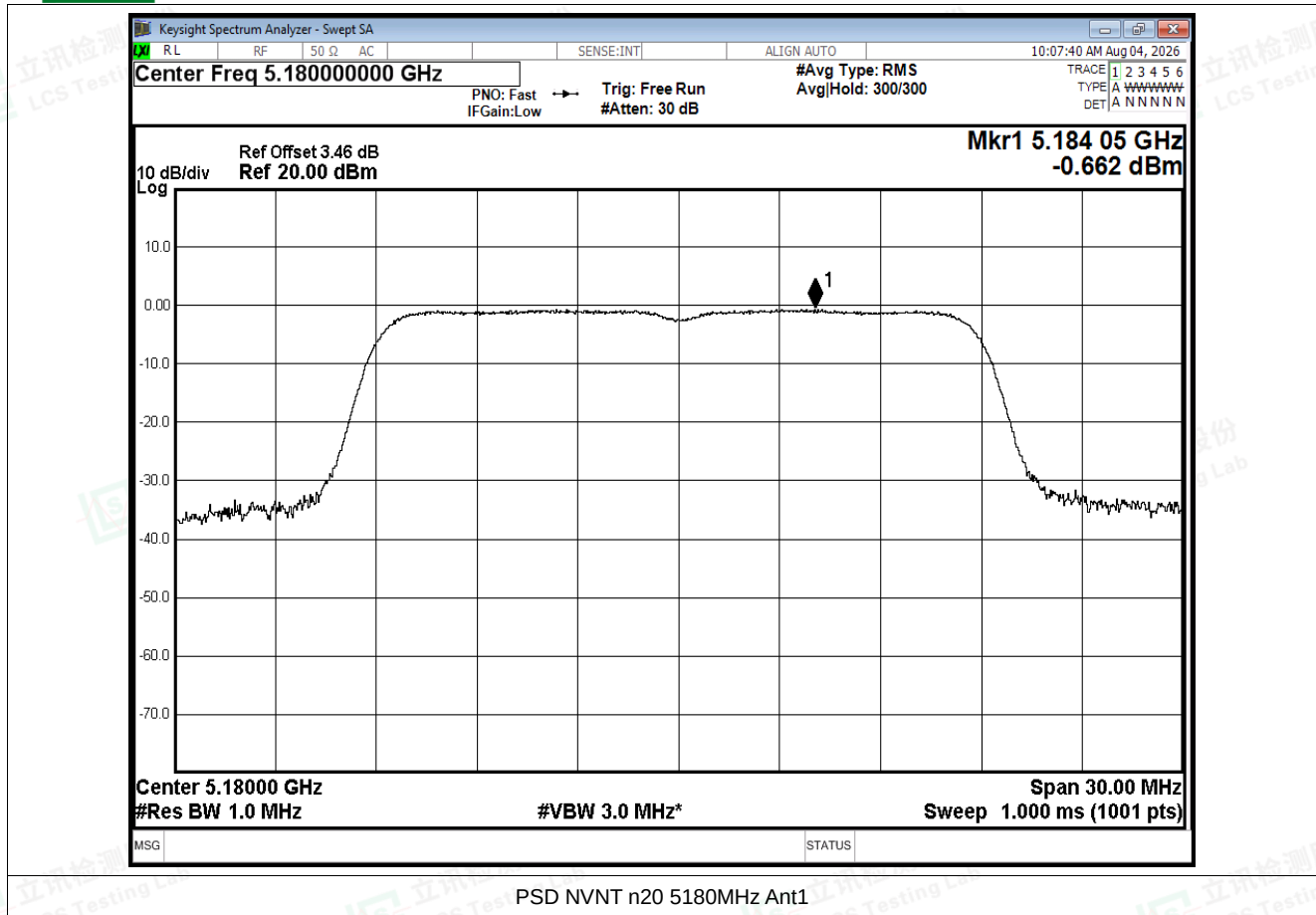
D.3 Maximum Power Spectral Density Level

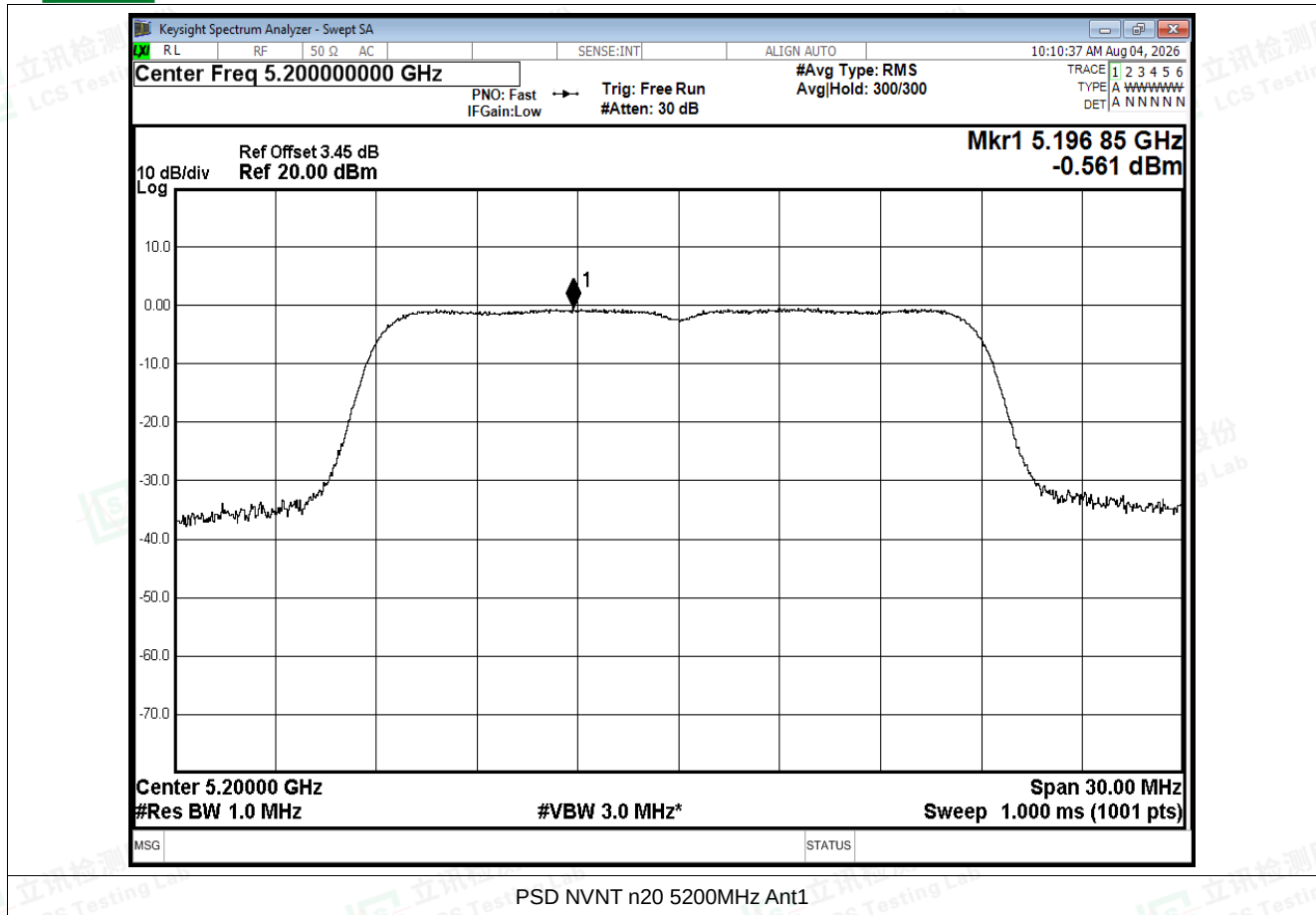
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz)	Limit Conducted(dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-0.15	0.18	0.03	11	Pass
NVNT	a	5200	Ant1	0.25	0.21	0.46	11	Pass
NVNT	a	5240	Ant1	0.67	0.18	0.85	11	Pass
NVNT	n20	5180	Ant1	-0.66	0.22	-0.44	11	Pass
NVNT	n20	5200	Ant1	-0.56	0.25	-0.31	11	Pass
NVNT	n20	5240	Ant1	-0.24	0.25	0.01	11	Pass
NVNT	n40	5190	Ant1	-4.83	0.42	-4.41	11	Pass
NVNT	n40	5230	Ant1	-4.29	0.49	-3.8	11	Pass
NVNT	ac20	5180	Ant1	-0.67	0.21	-0.46	11	Pass
NVNT	ac20	5200	Ant1	-0.5	0.21	-0.29	11	Pass
NVNT	ac20	5240	Ant1	-0.24	0.25	0.01	11	Pass
NVNT	ac40	5190	Ant1	-5.06	0.41	-4.65	11	Pass
NVNT	ac40	5230	Ant1	-4.27	0.49	-3.78	11	Pass
NVNT	ac80	5210	Ant1	-8.87	0.94	-7.93	11	Pass
NVNT	ac160	5250	Ant1	-12.78	1.25	-11.53	10	Pass

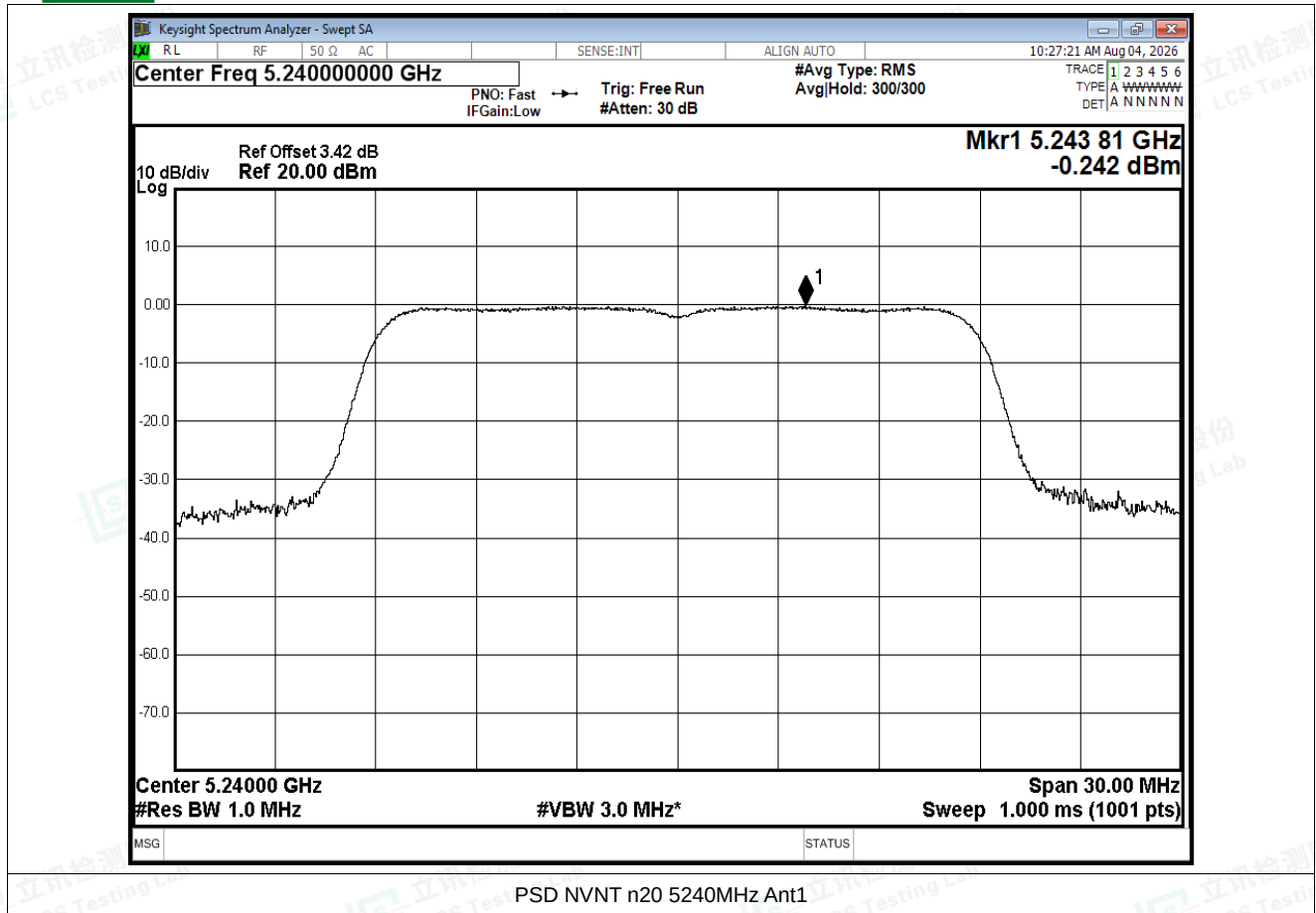


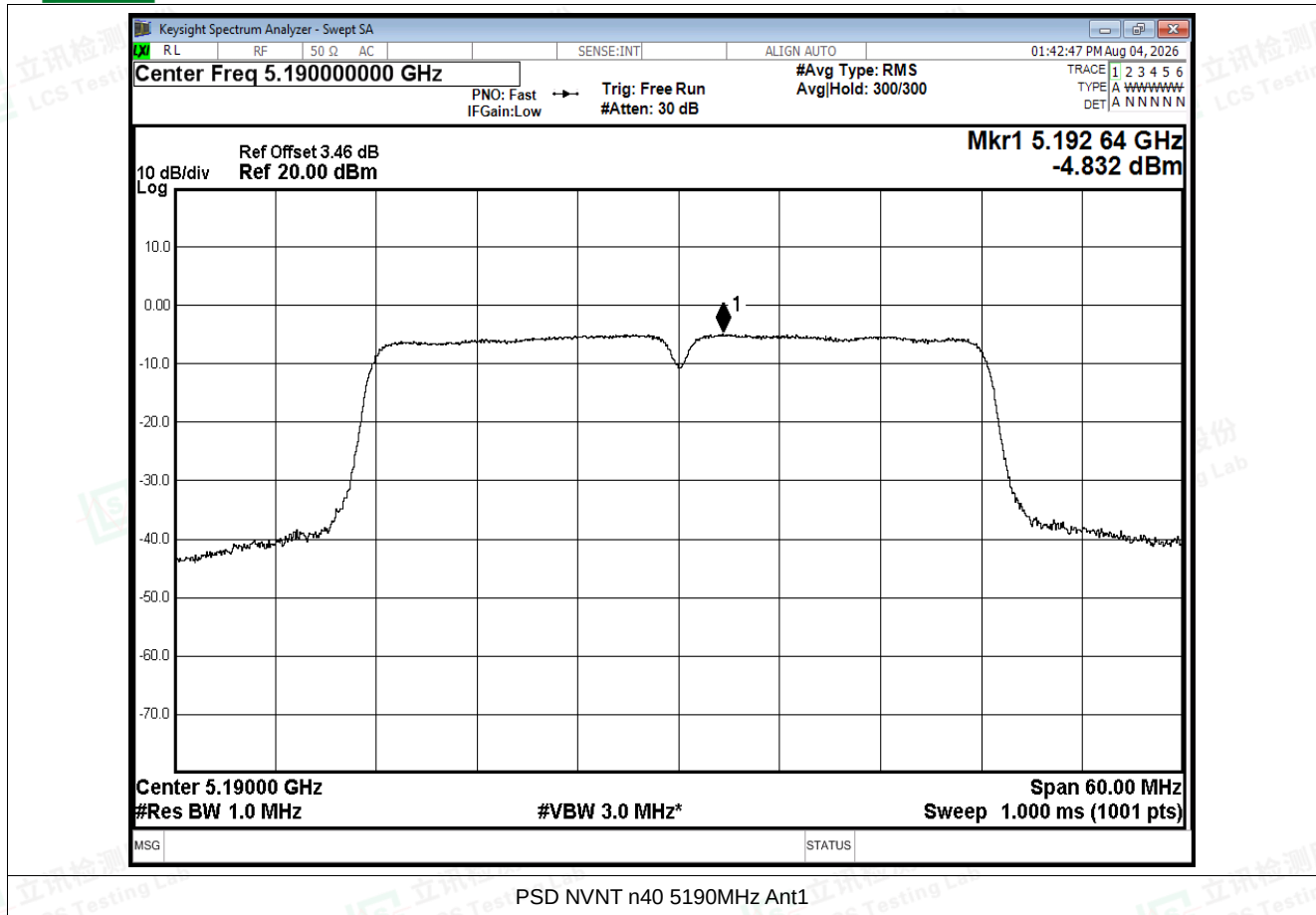


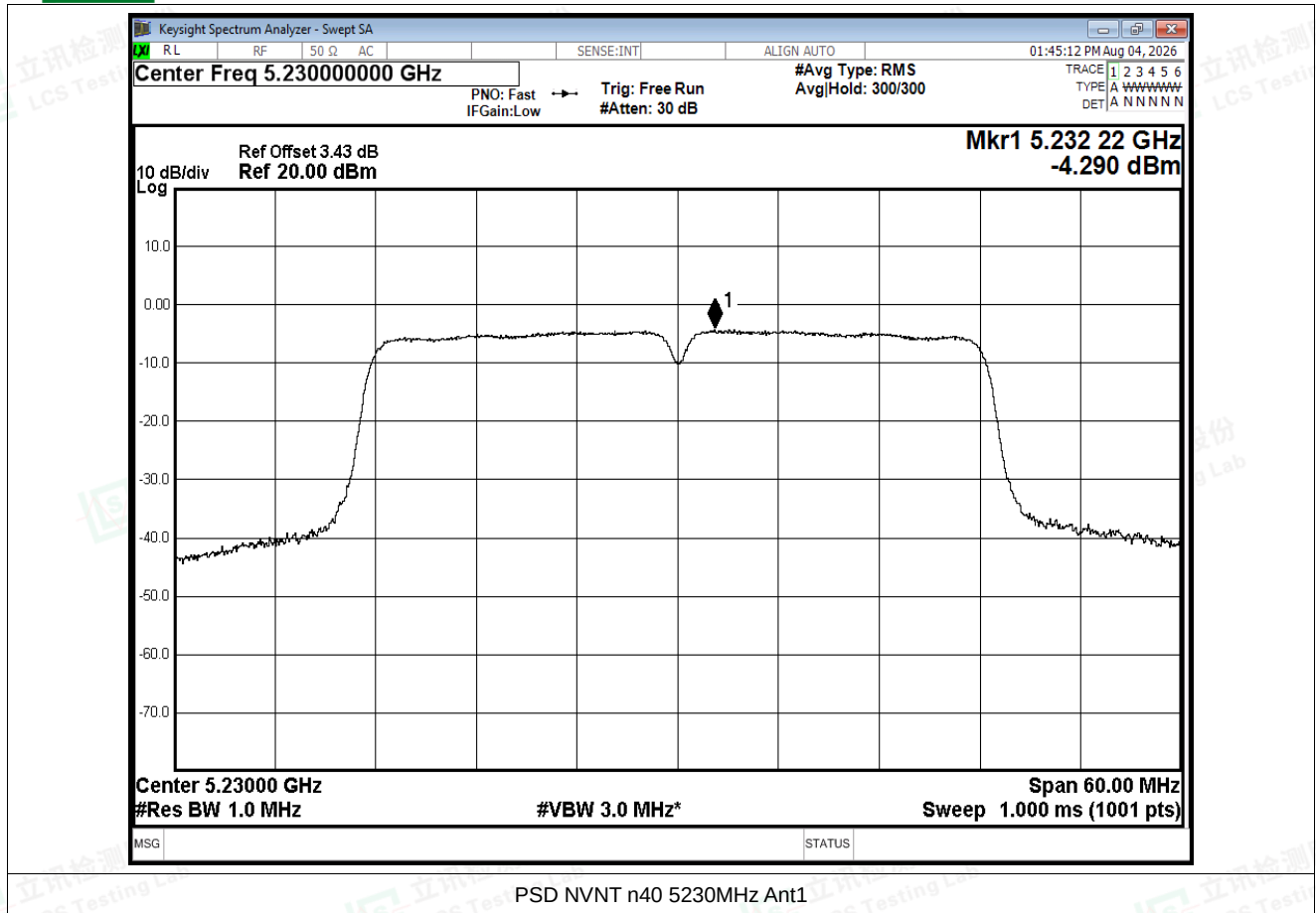


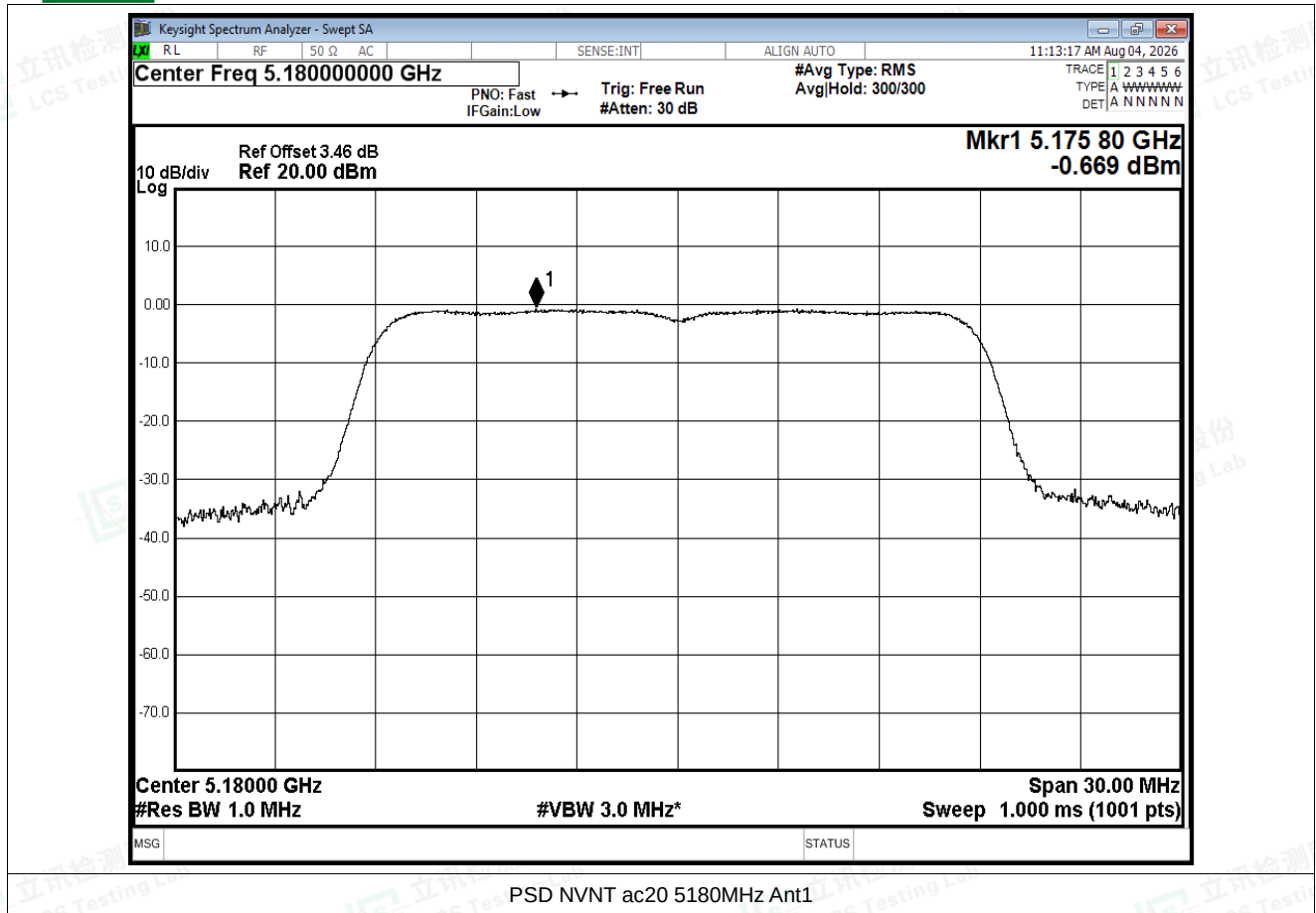


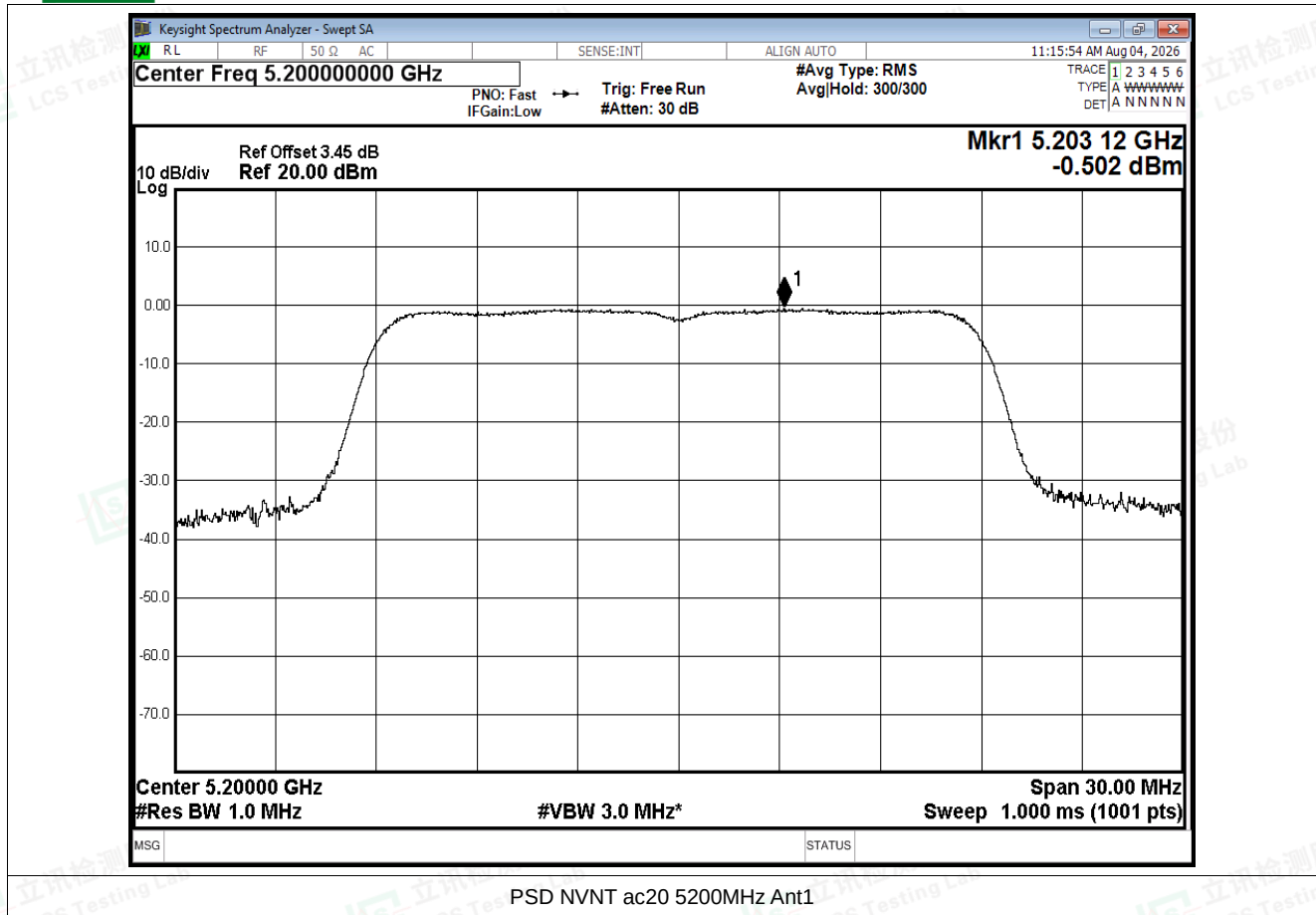


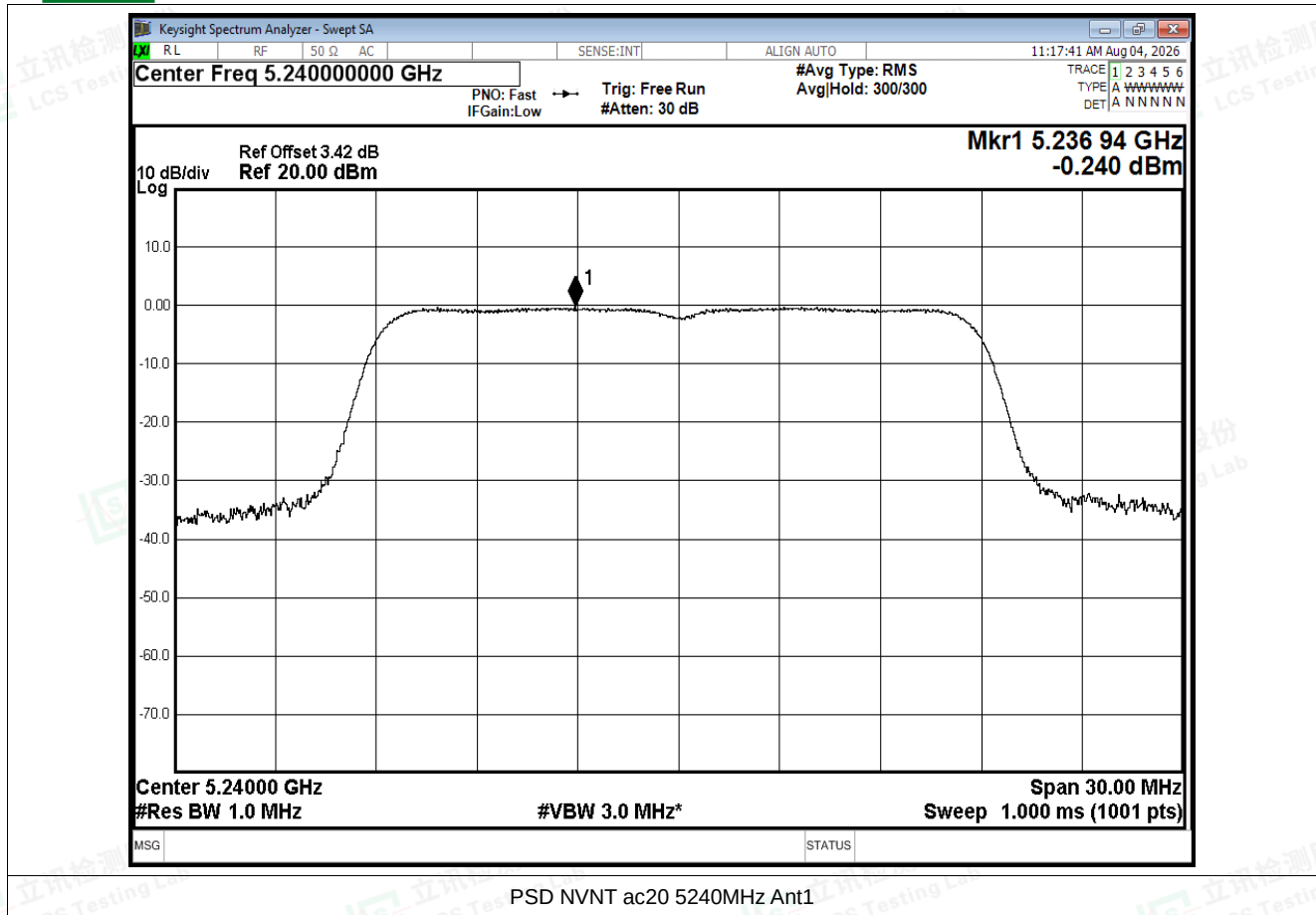


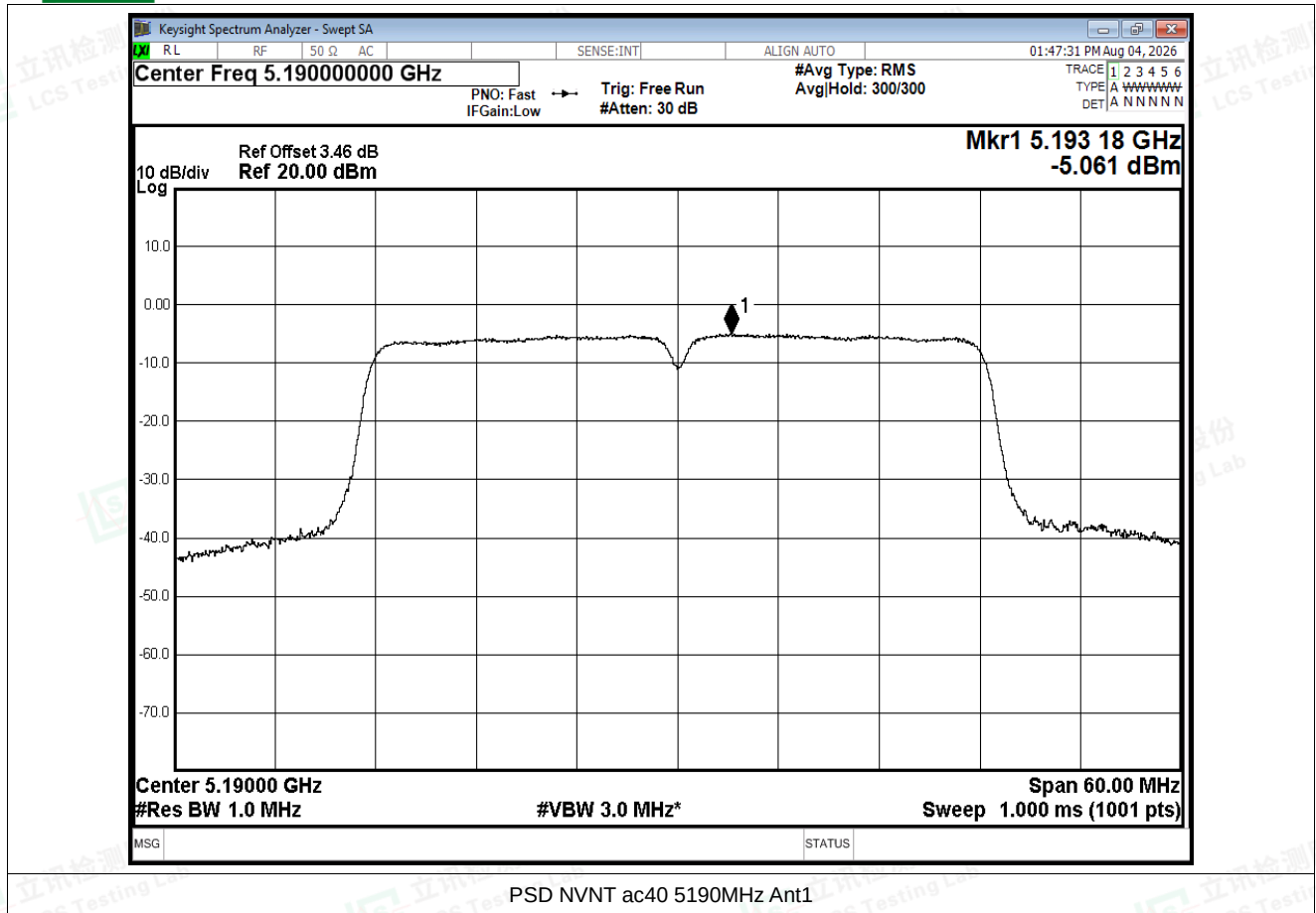


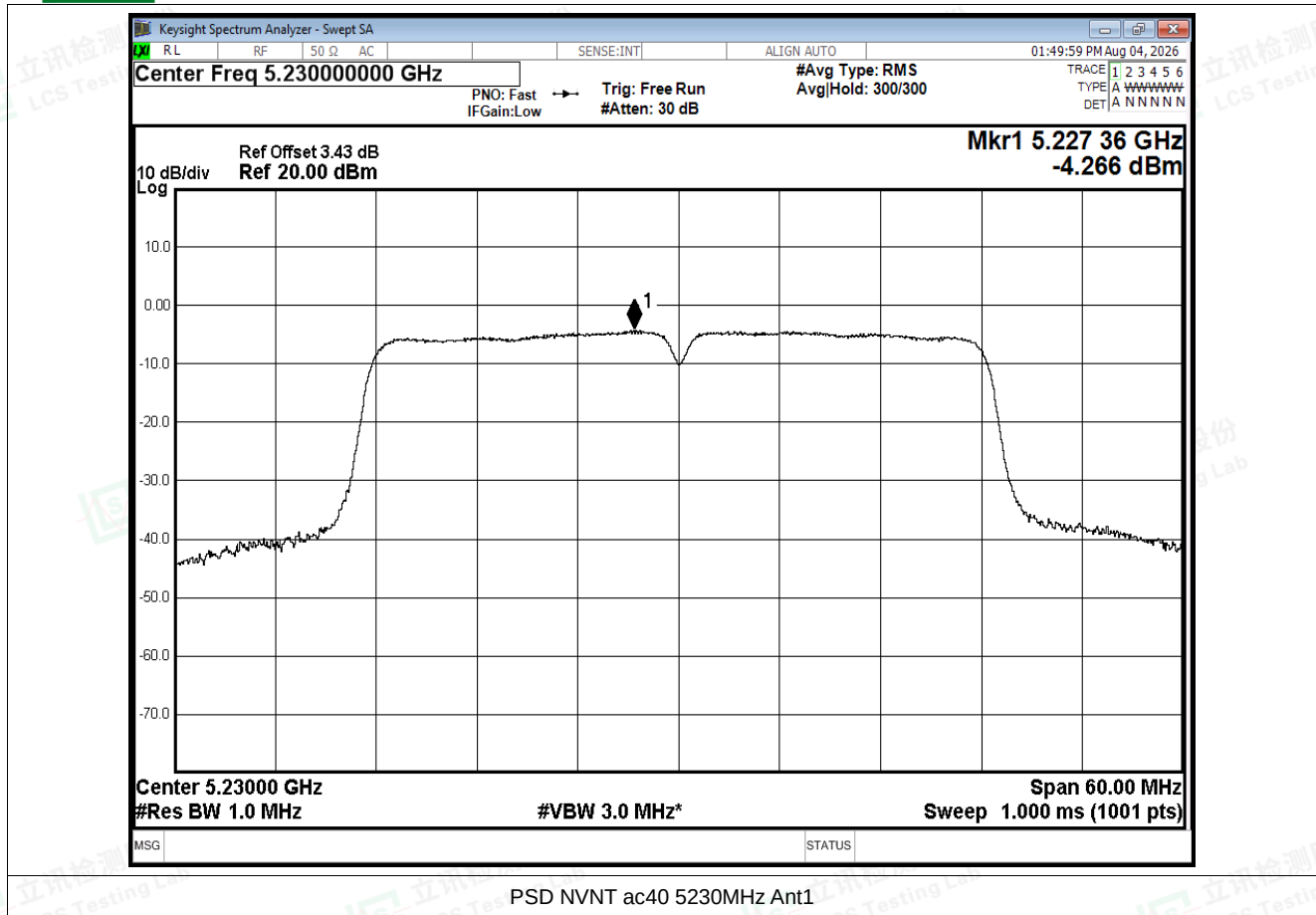


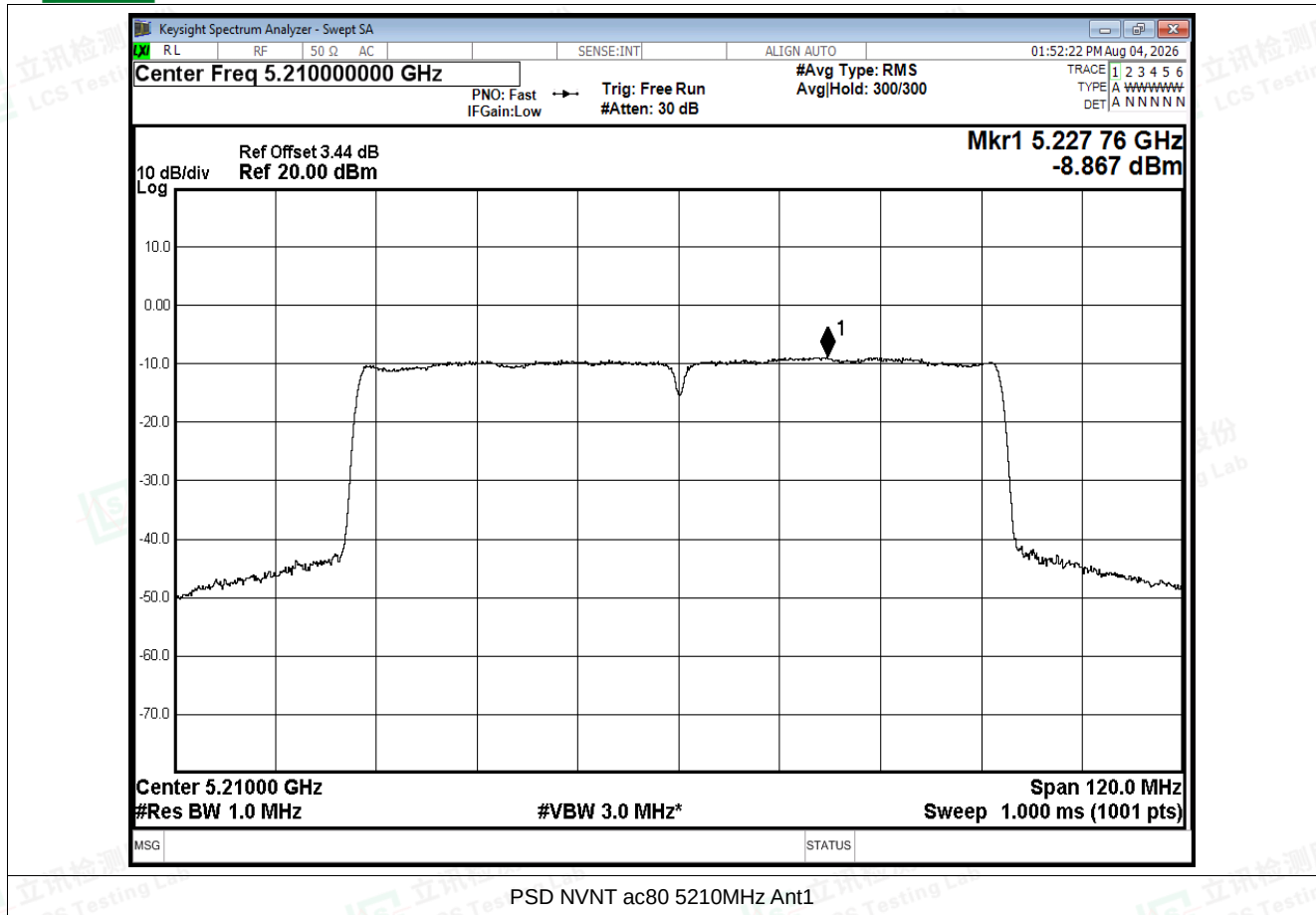


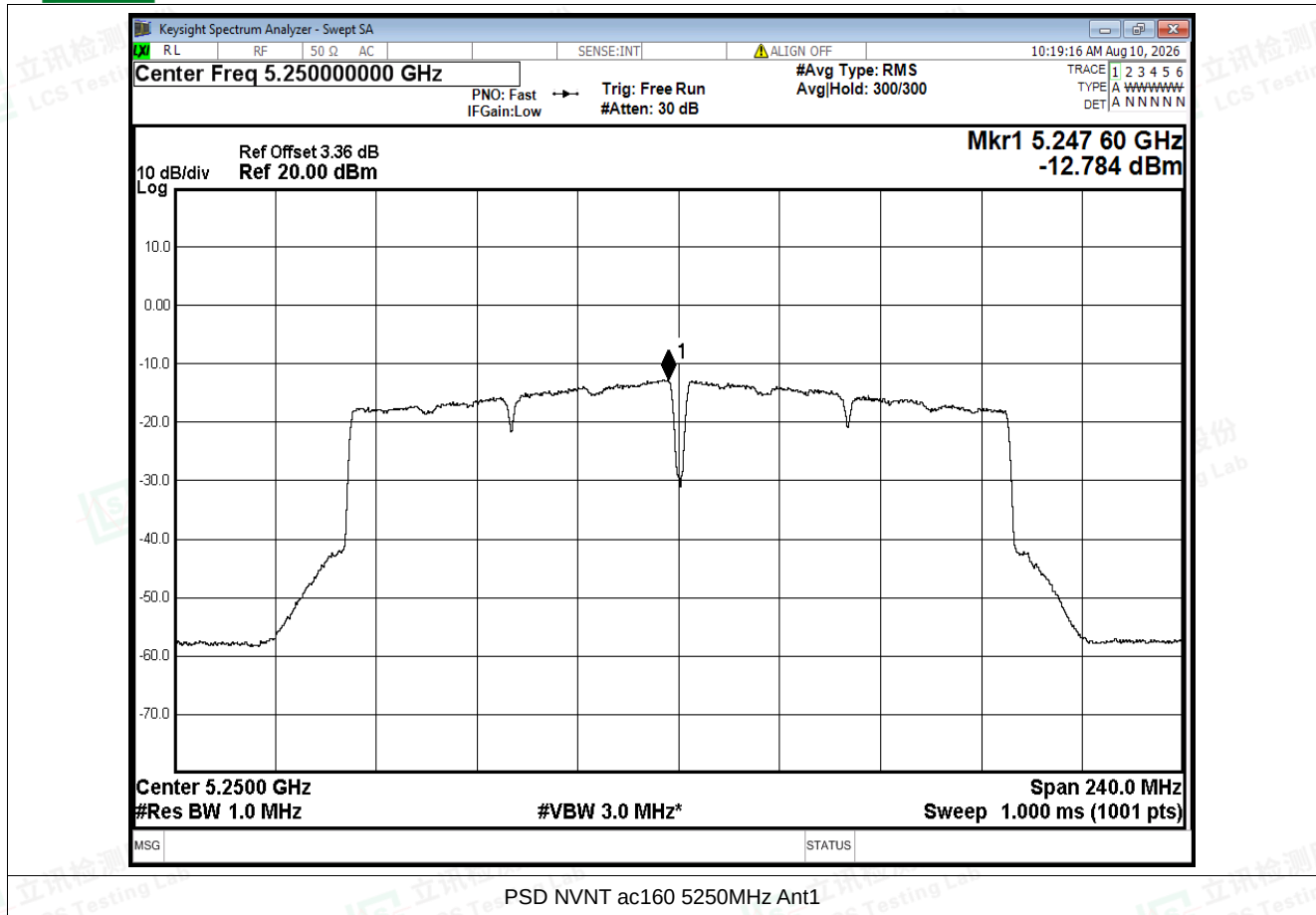














D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-60.05	2	37.18	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-68.25	2	28.98	Average	54	Pass
NVNT	a	5180	Ant1	5147.5	-42.84	2	54.39	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-47.41	2	49.82	Average	54	Pass
NVNT	a	5180	Ant1	5150	-43.63	2	53.6	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-46.92	2	50.31	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.27	2	47.96	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.16	2	41.07	Average	54	Pass
NVNT	a	5240	Ant1	5454.72	-46.95	2	50.28	Peak	68.2	Pass
NVNT	a	5240	Ant1	5351.52	-55.99	2	41.24	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.59	2	46.64	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-56.71	2	40.52	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.84	2	47.39	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.32	2	38.91	Average	54	Pass
NVNT	n20	5180	Ant1	5146.8	-38.66	2	58.57	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-46.34	2	50.89	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-38.36	2	58.87	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.23	2	51	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-50.61	2	46.62	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.14	2	41.09	Average	54	Pass
NVNT	n20	5240	Ant1	5351.28	-46.61	2	50.62	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5351.28	-56.09	2	41.14	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.36	2	47.87	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.85	2	40.38	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-60.94	2	36.29	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-68.21	2	29.02	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-43.83	2	53.4	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-46.84	2	50.39	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-44.73	2	52.5	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-46.37	2	50.86	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.36	2	47.87	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.59	2	40.64	Average	54	Pass
NVNT	n40	5230	Ant1	5373.87	-46.02	2	51.21	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5452.17	-55.88	2	41.35	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.56	2	46.67	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.42	2	40.81	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.73	2	47.5	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.28	2	38.95	Average	54	Pass

Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



NVNT	ac20	5180	Ant1	5149.6	-39.37	2	57.86	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-47.01	2	50.22	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-43.25	2	53.98	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-46.35	2	50.88	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.79	2	47.44	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.32	2	40.91	Average	54	Pass
NVNT	ac20	5240	Ant1	5406.72	-47.1	2	50.13	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350.08	-56.32	2	40.91	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.81	2	47.42	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.7	2	40.53	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-51.22	2	46.01	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.11	2	39.12	Average	54	Pass
NVNT	ac40	5190	Ant1	5145.32	-42.83	2	54.4	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-46.71	2	50.52	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-43.45	2	53.78	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-46.22	2	51.01	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-48.51	2	48.72	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.62	2	40.61	Average	54	Pass
NVNT	ac40	5230	Ant1	5412.48	-47.58	2	49.65	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5449.2	-56.2	2	41.03	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.98	2	47.25	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.35	2	40.88	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-49.72	2	47.51	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.51	2	41.72	Average	54	Pass
NVNT	ac80	5210	Ant1	5418.42	-47.05	2	50.18	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5358.69	-55.33	2	41.9	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.49	2	46.74	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.1	2	41.13	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-51.76	2	45.47	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.54	2	39.69	Average	54	Pass
NVNT	ac80	5210	Ant1	5146.22	-42.96	2	54.27	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-47.47	2	49.76	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-42.55	2	54.68	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-47.15	2	50.08	Average	54	Pass
NVNT	ac160	5250	Ant1	5350	-48.55	2	48.68	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5350	-54.26	2	42.97	Average	54	Pass
NVNT	ac160	5250	Ant1	5371.94	-46.67	2	50.56	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5397.47	-53.57	2	43.66	Average	54	Pass
NVNT	ac160	5250	Ant1	5460	-48.81	2	48.42	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5460	-55.36	2	41.87	Average	54	Pass
NVNT	ac160	5250	Ant1	4500	-50.92	2	46.31	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	4500	-57.56	2	39.67	Average	54	Pass

Shenzhen LCS Compliance Testing Laboratory Ltd.

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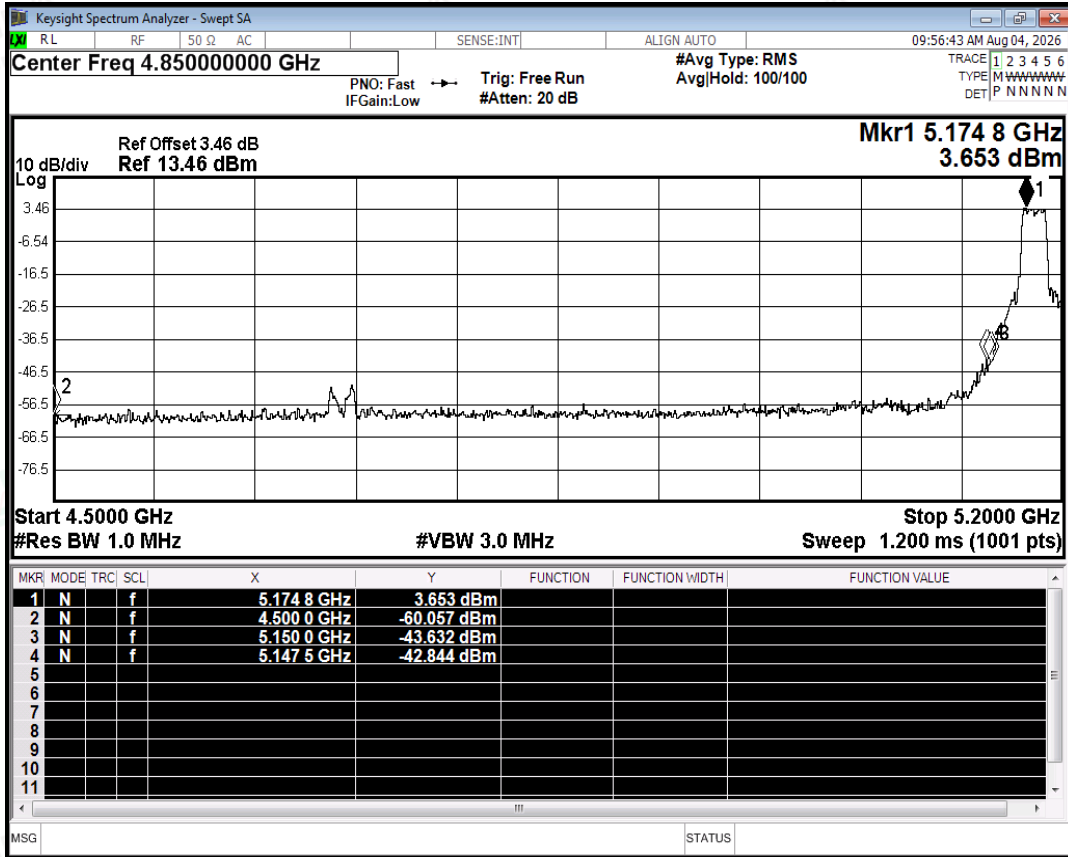
NVNT	ac160	5250	Ant1	5118.8	-46.44	2	50.79	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5113.34	-53.61	2	43.62	Average	54	Pass
NVNT	ac160	5250	Ant1	5150	-48.81	2	48.42	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5150	-54.69	2	42.54	Average	54	Pass



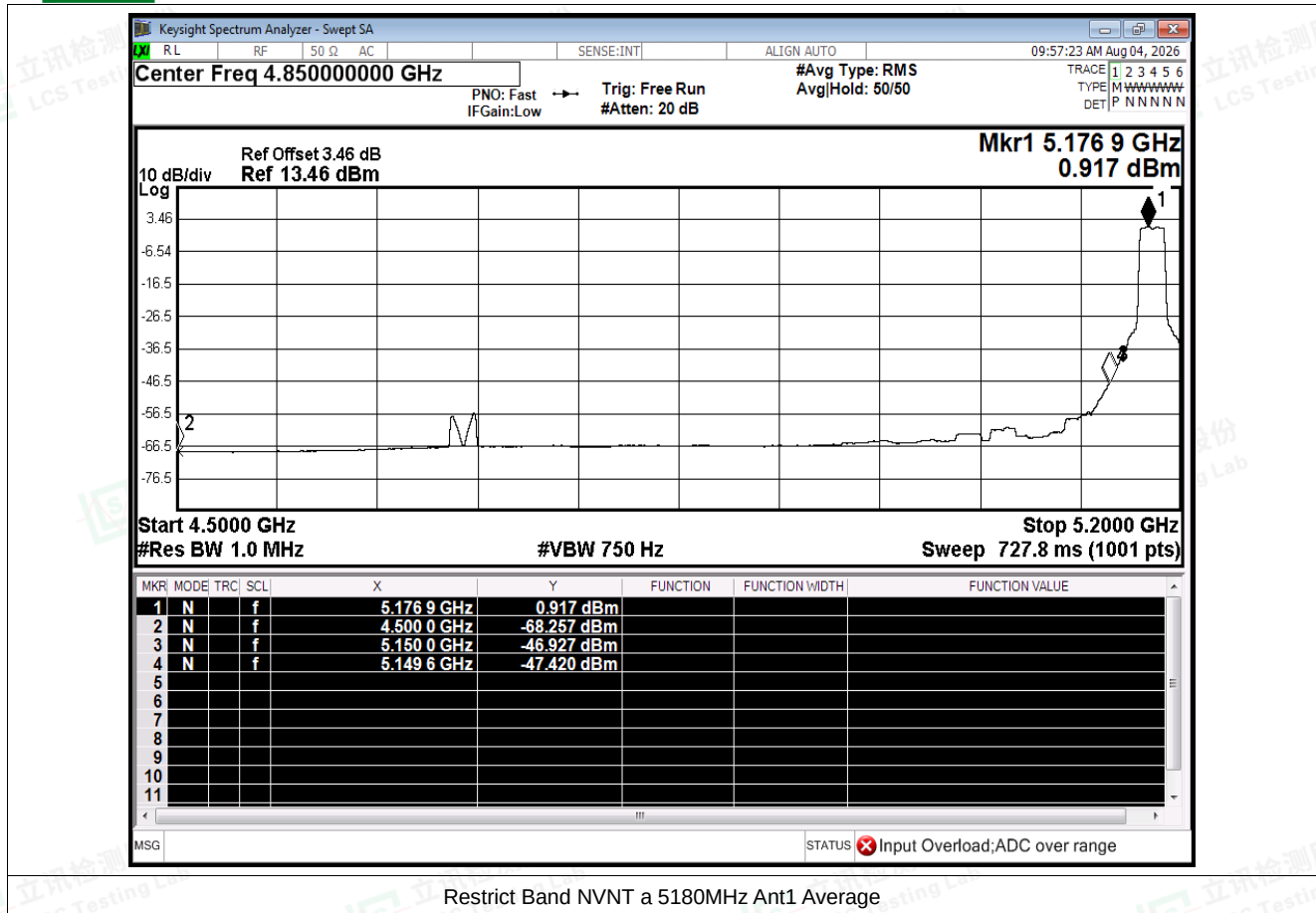
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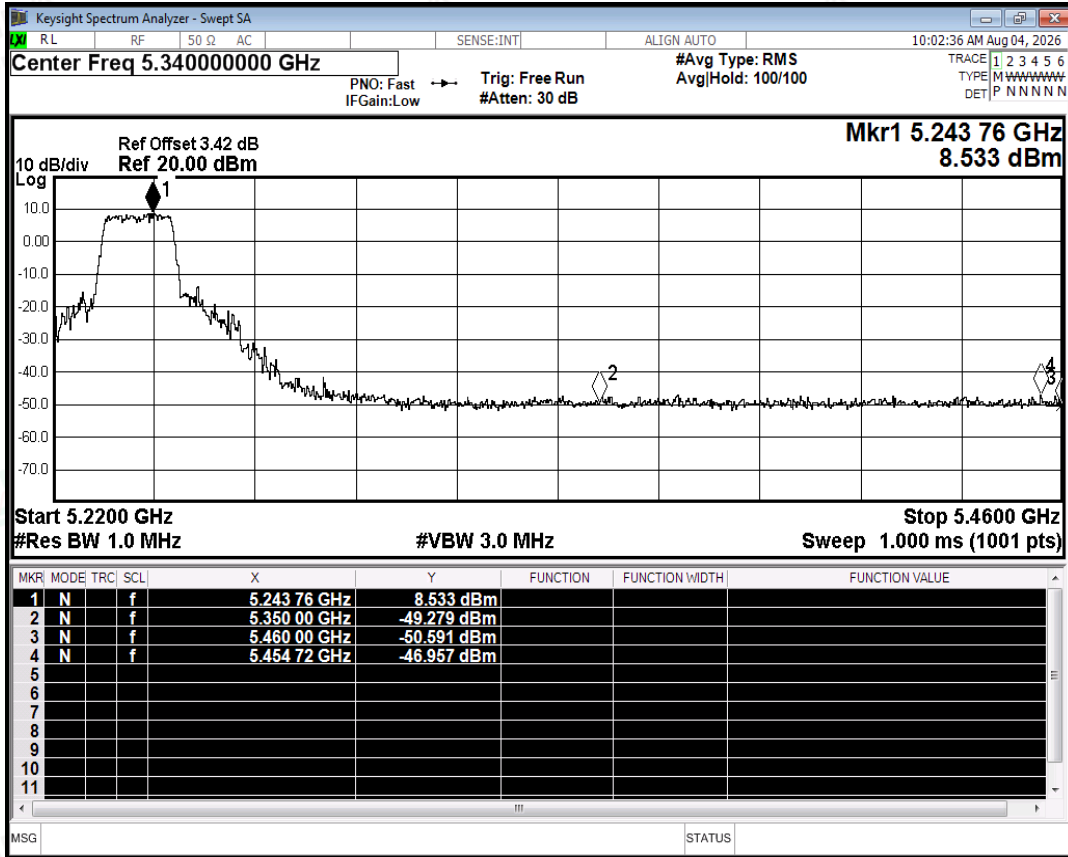
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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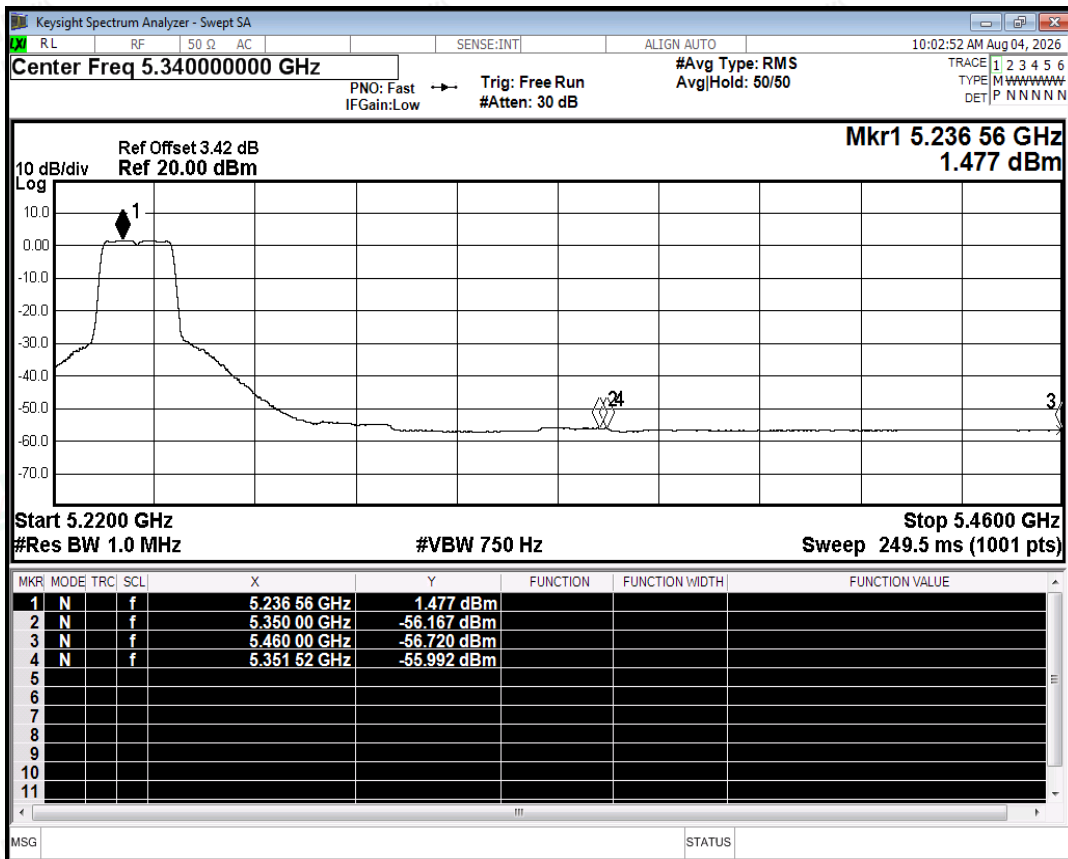


Restrict Band NVNT a 5180MHz Ant1 Peak

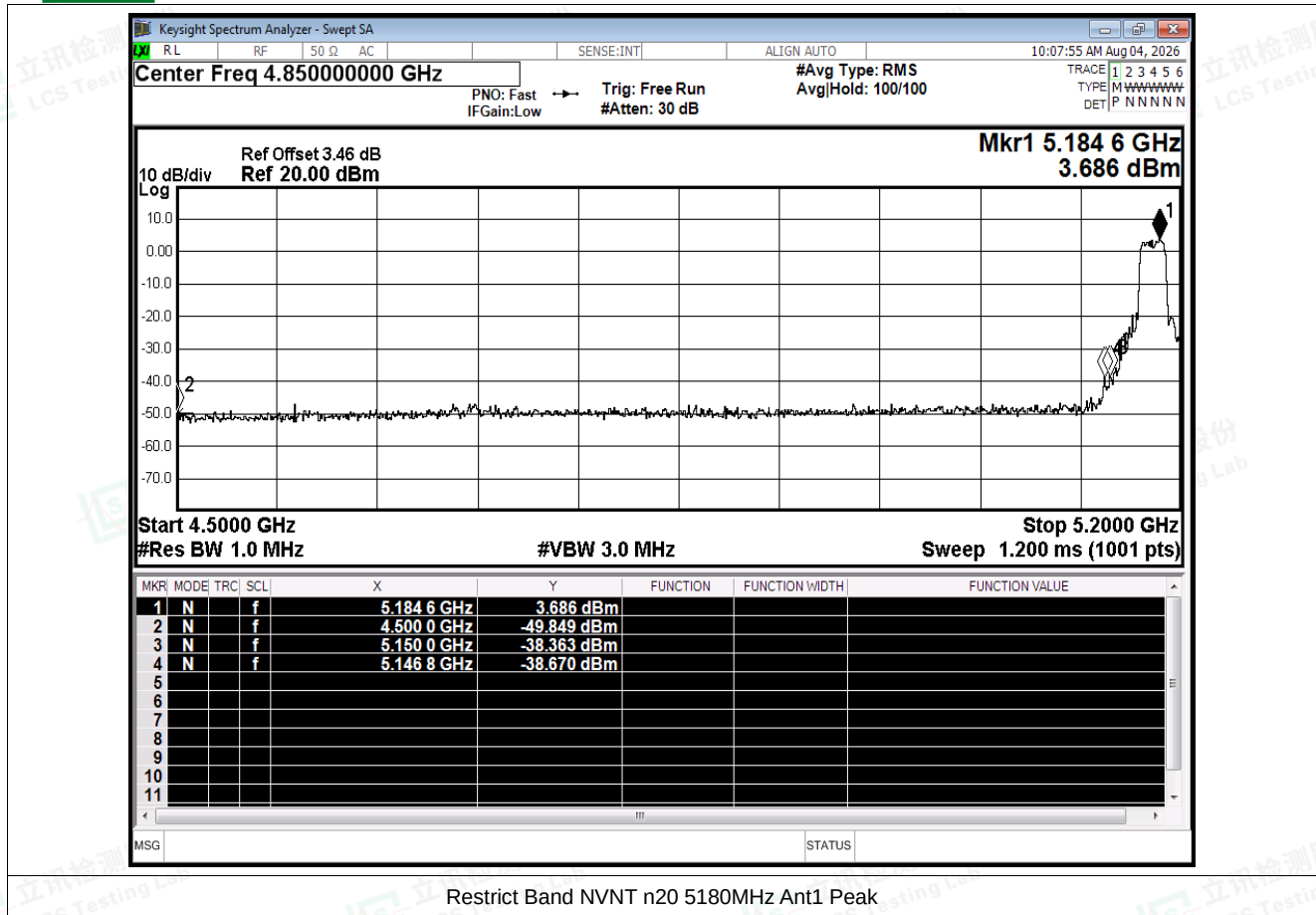


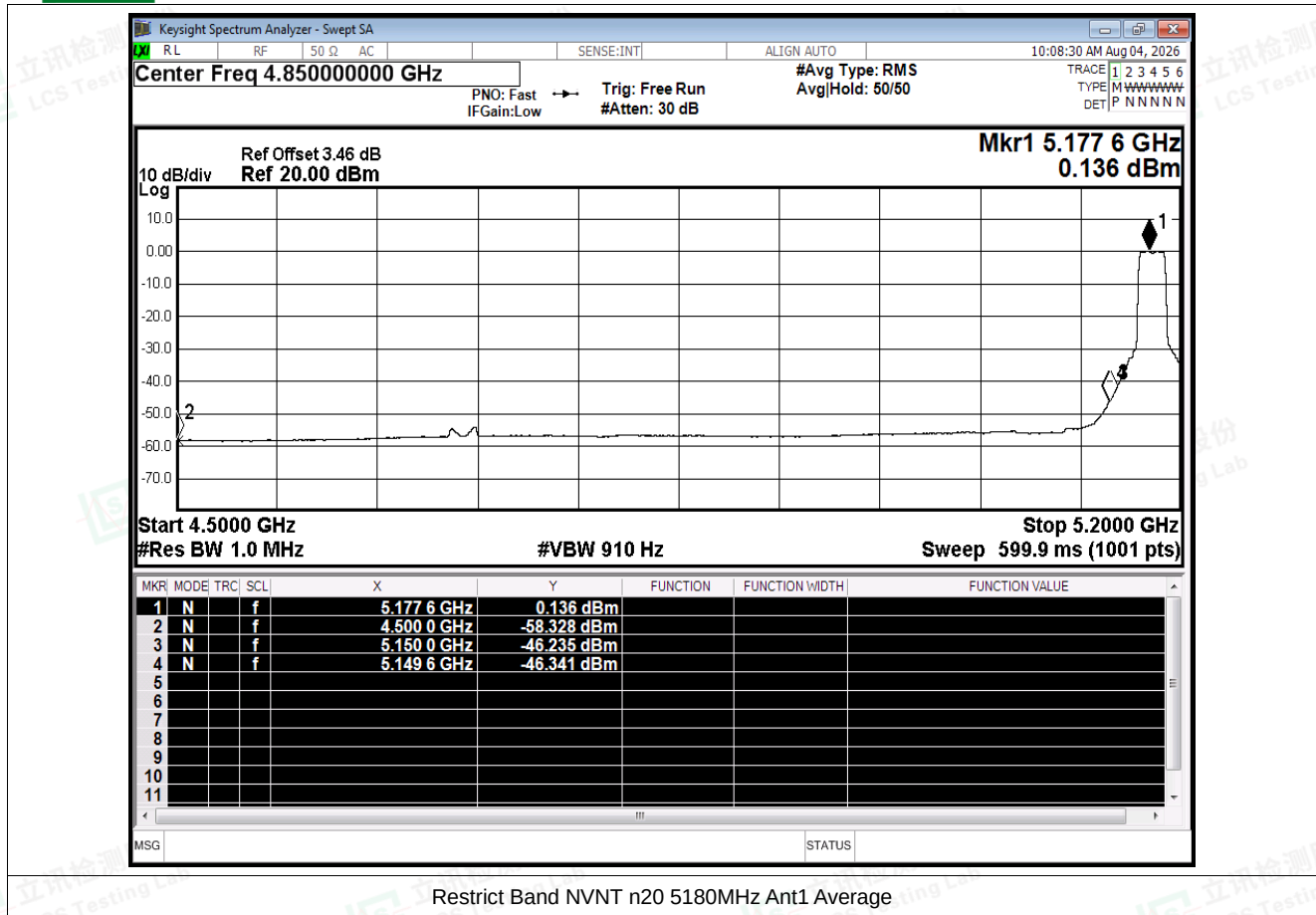


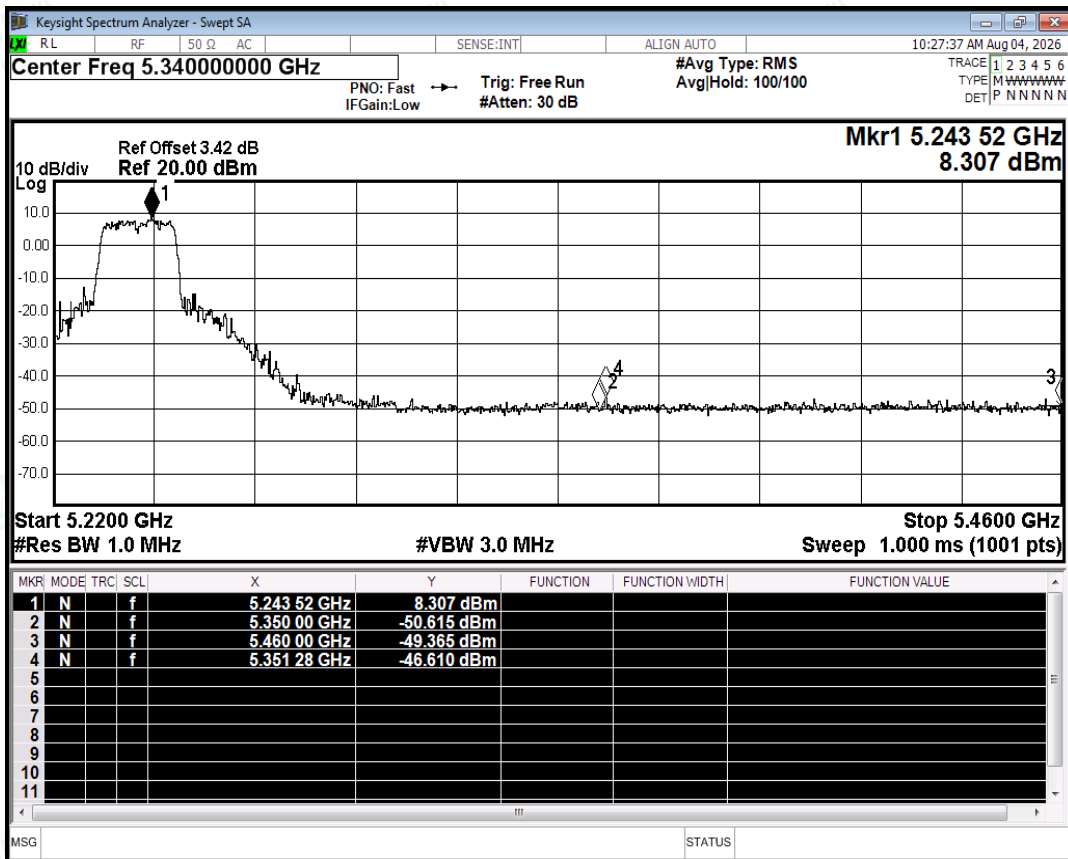
Restrict Band NVNT a 5240MHz Ant1 Peak



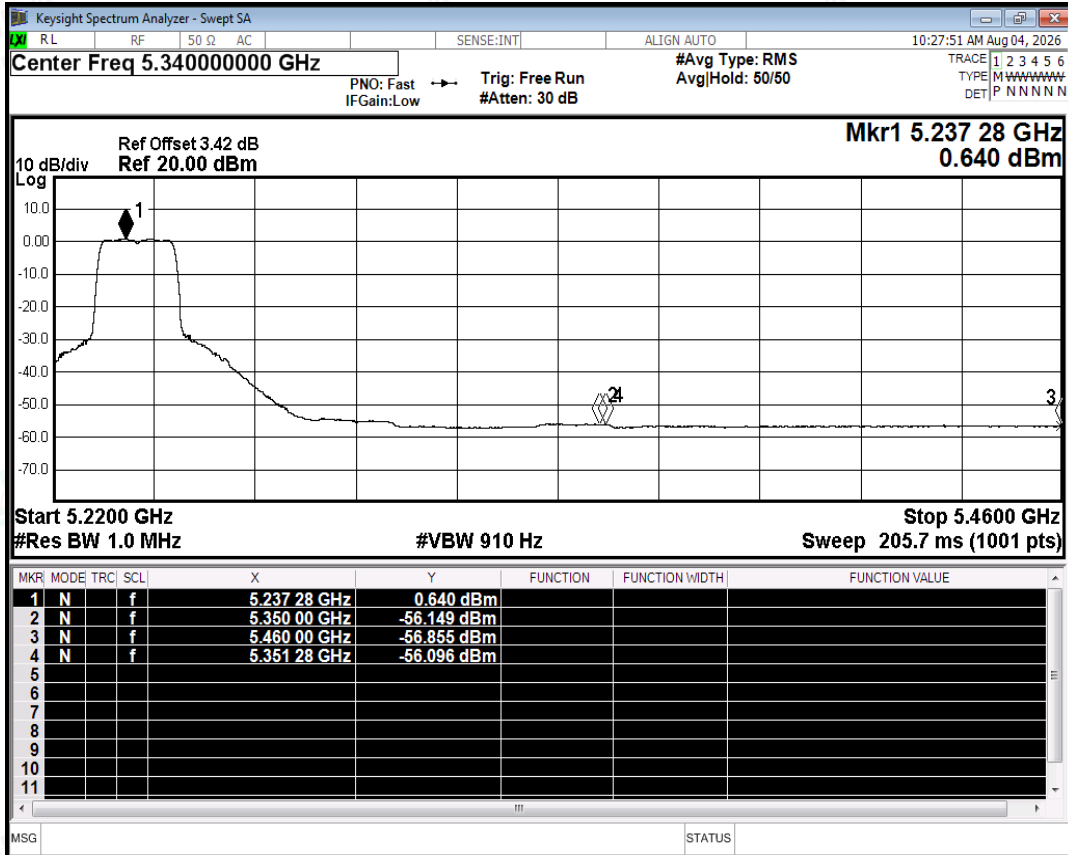
Restrict Band NVNT a 5240MHz Ant1 Average



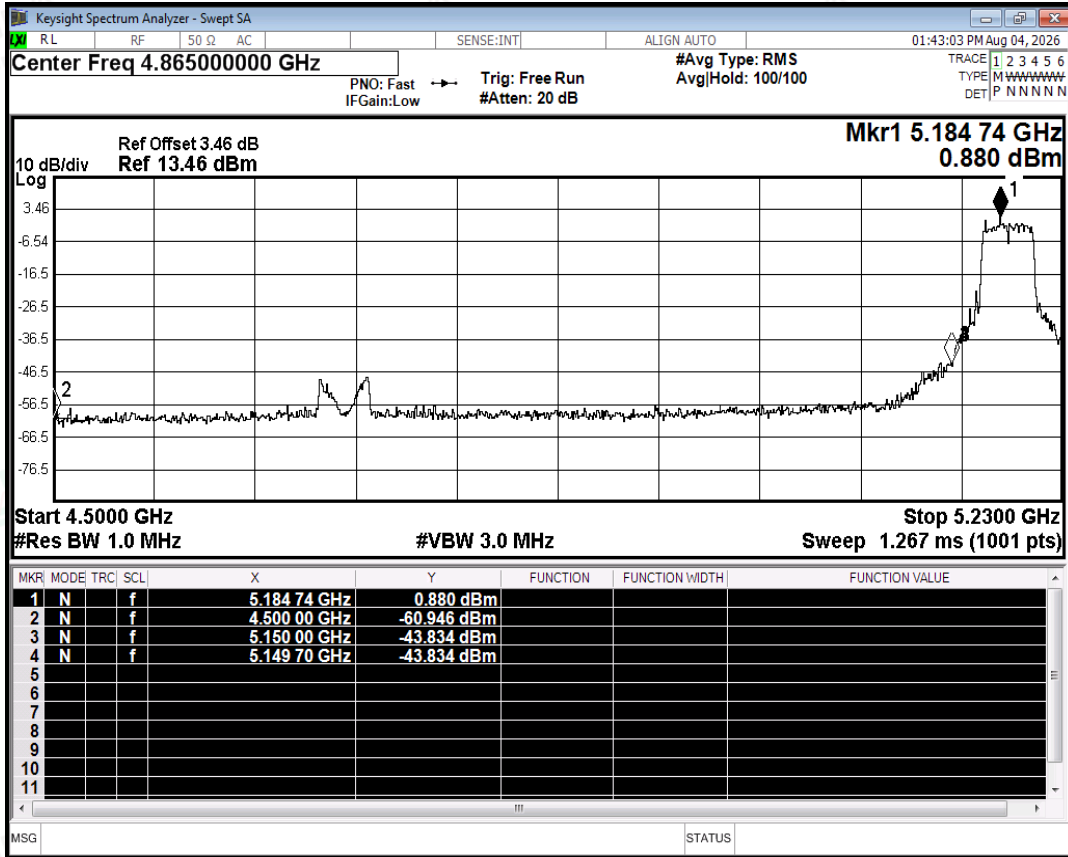




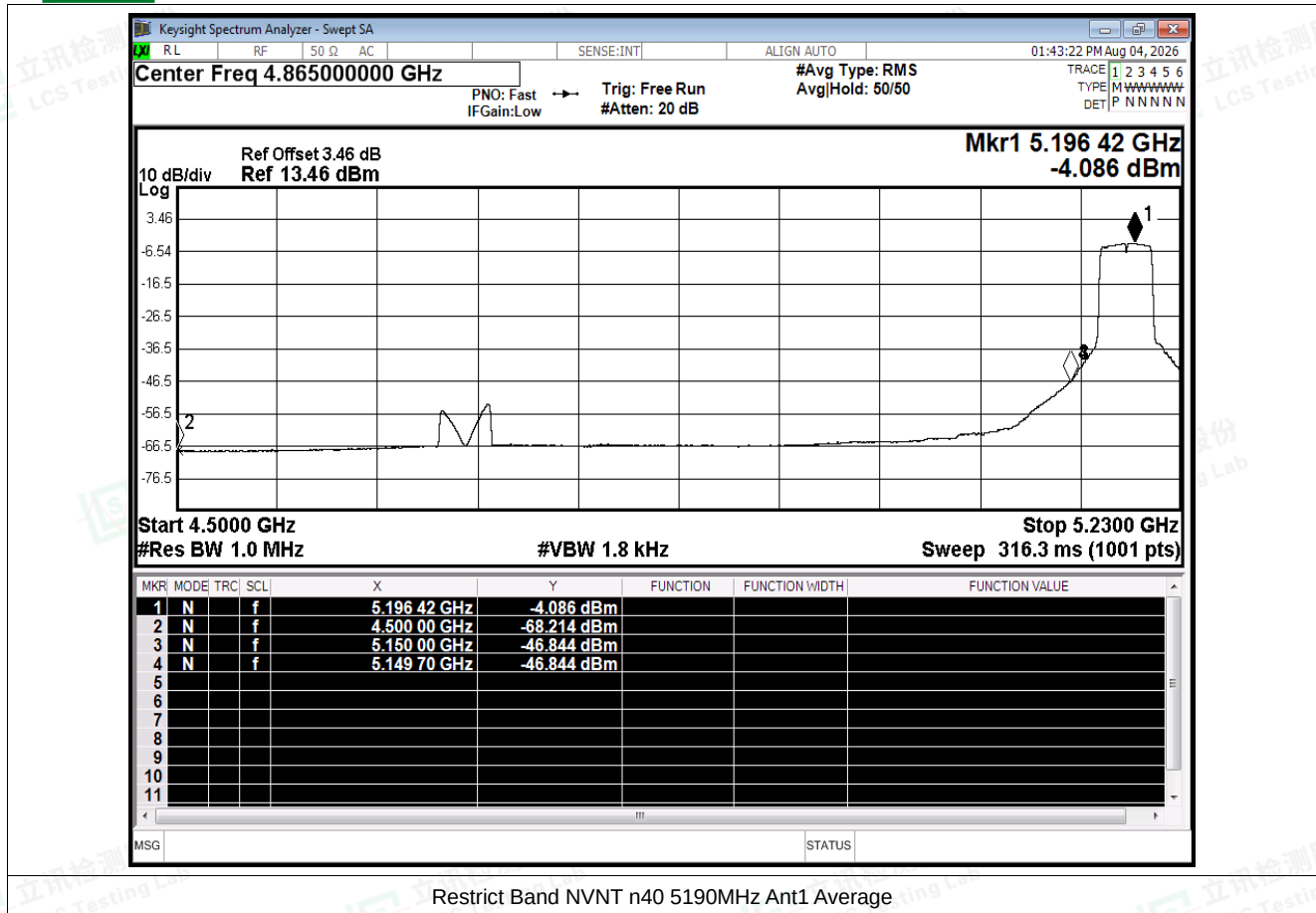
Restrict Band NVNT n20 5240MHz Ant1 Peak

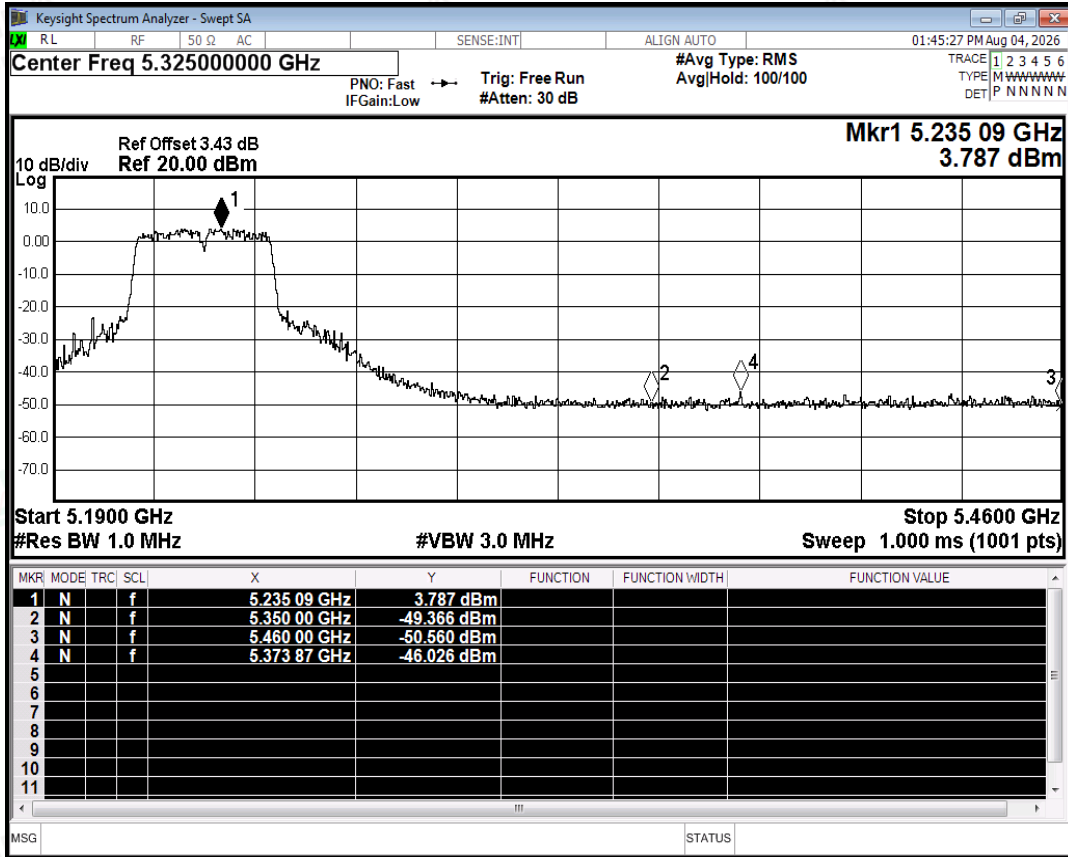


Restrict Band NVNT n20 5240MHz Ant1 Average

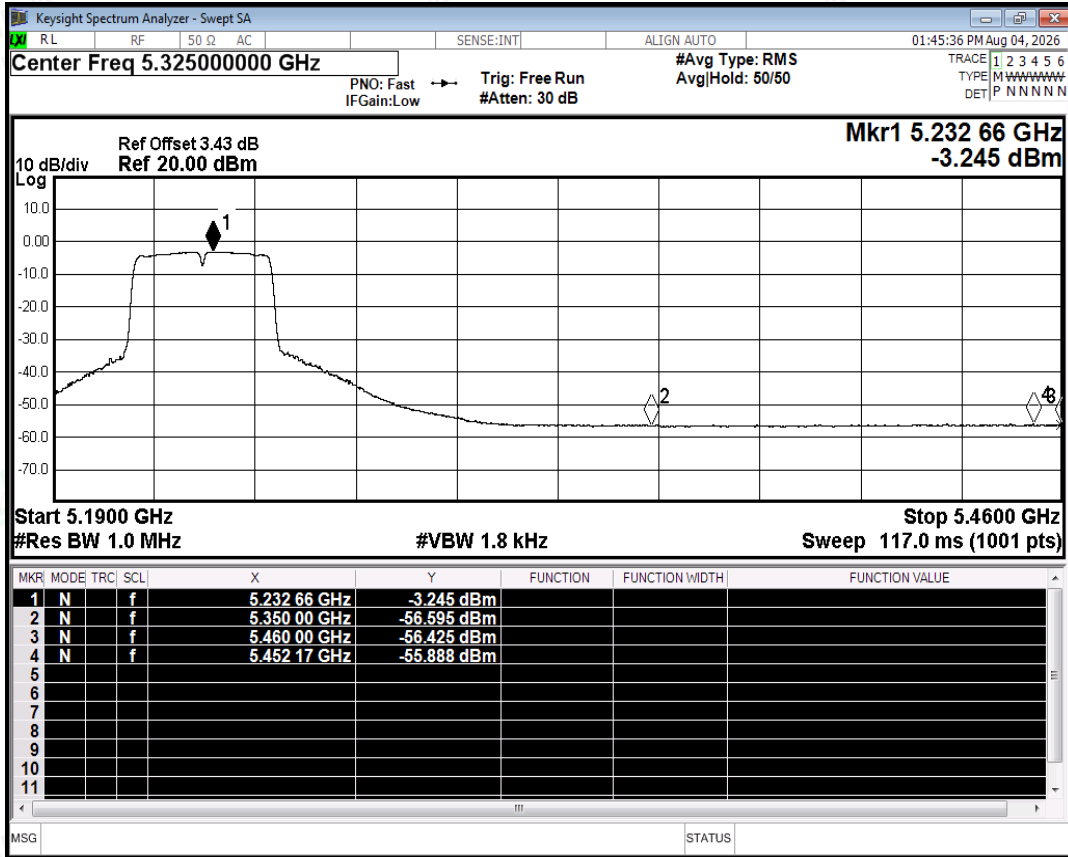


Restrict Band NVNT n40 5190MHz Ant1 Peak

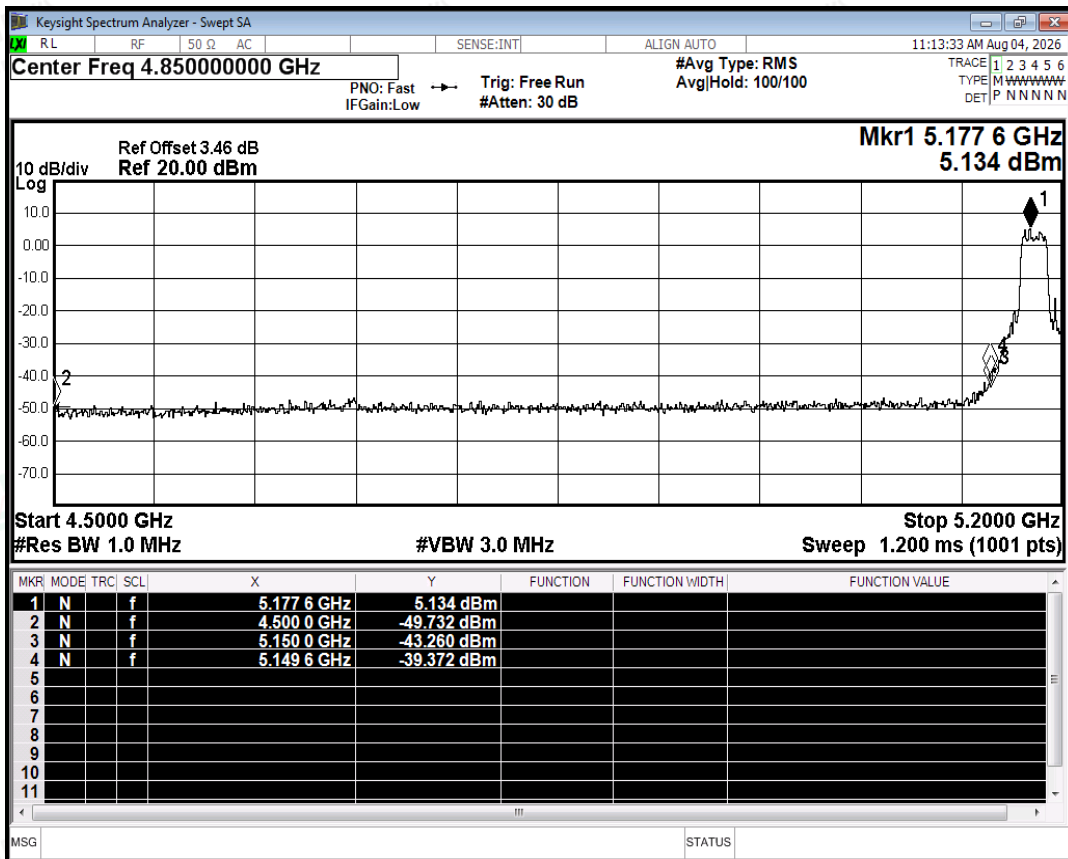




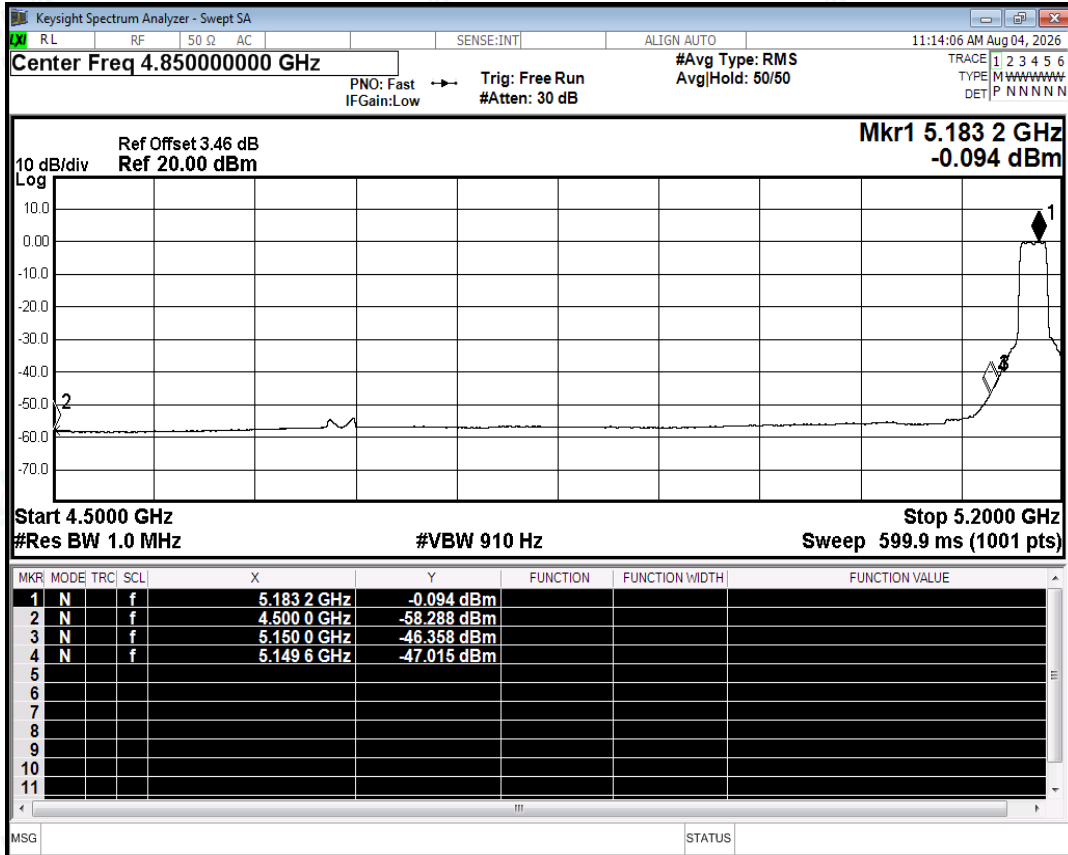
Restrict Band NVNT n40 5230MHz Ant1 Peak



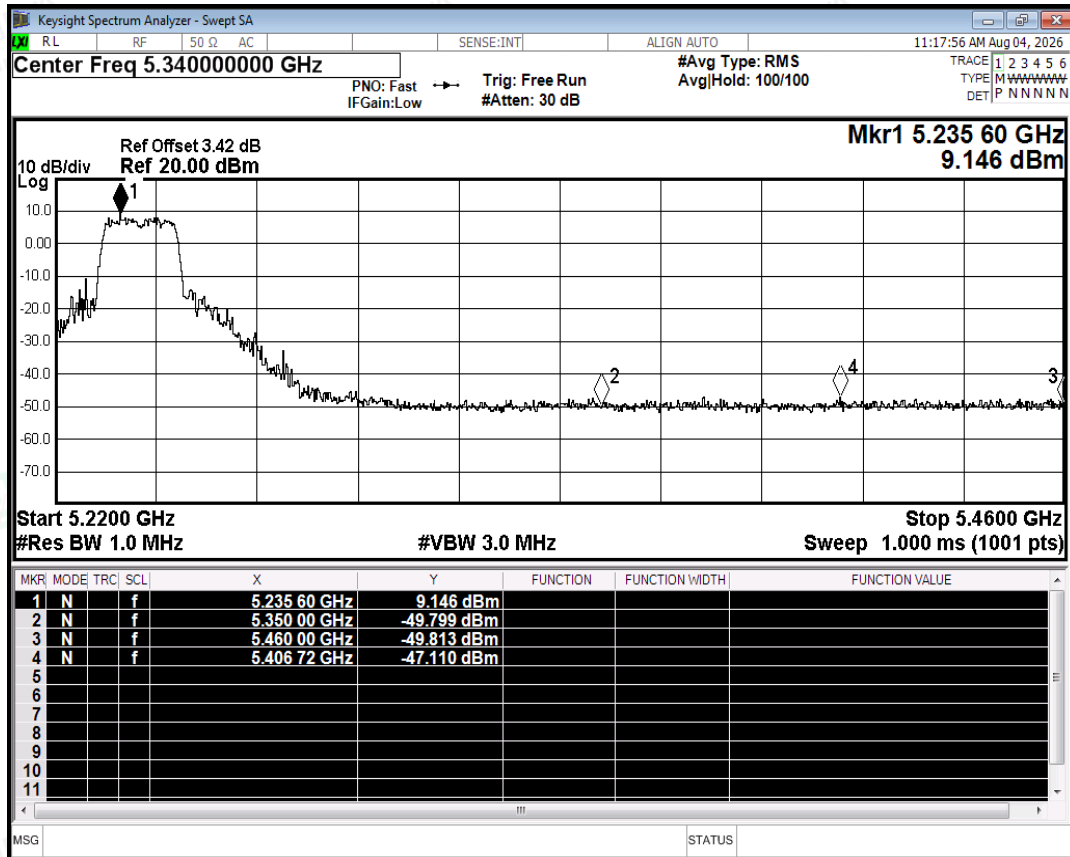
Restrict Band NVNT n40 5230MHz Ant1 Average



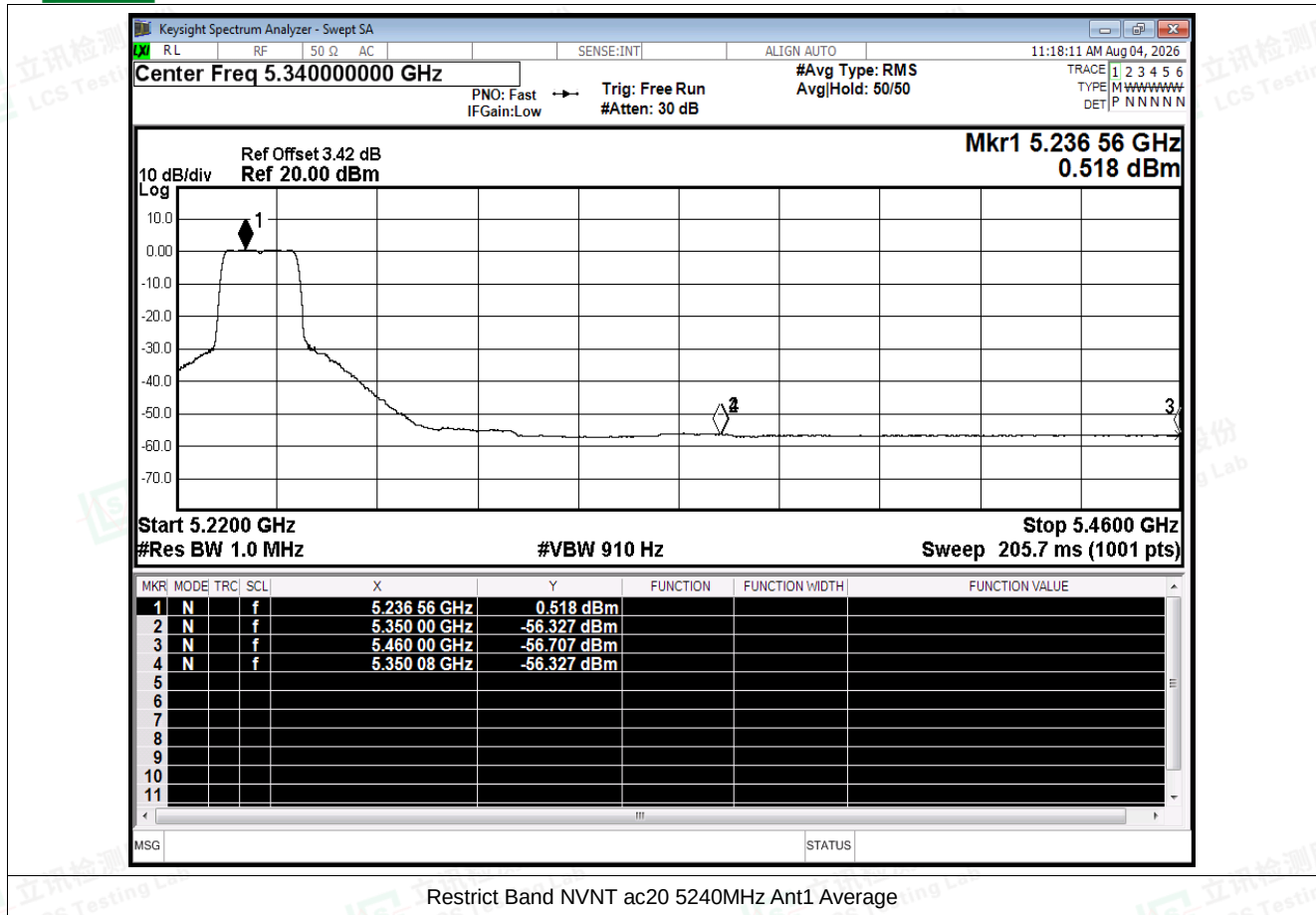
Restrict Band NVNT ac20 5180MHz Ant1 Peak

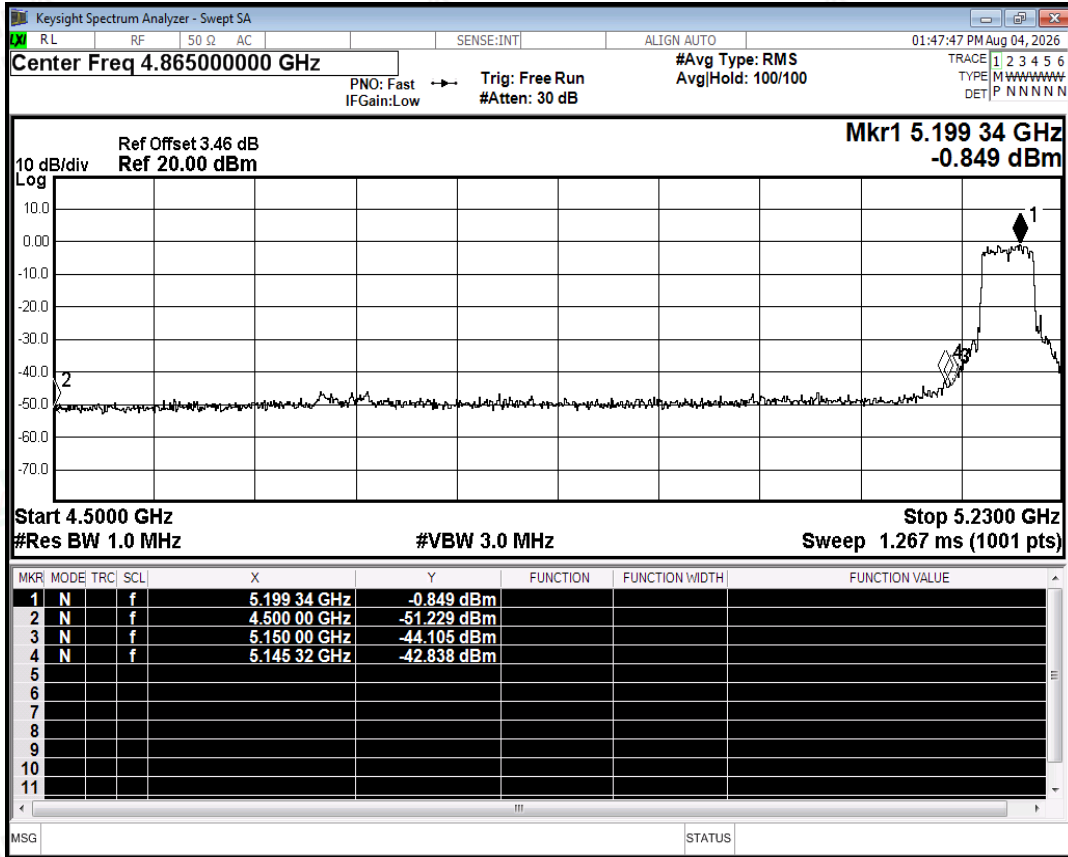


Restrict Band NVNT ac20 5180MHz Ant1 Average

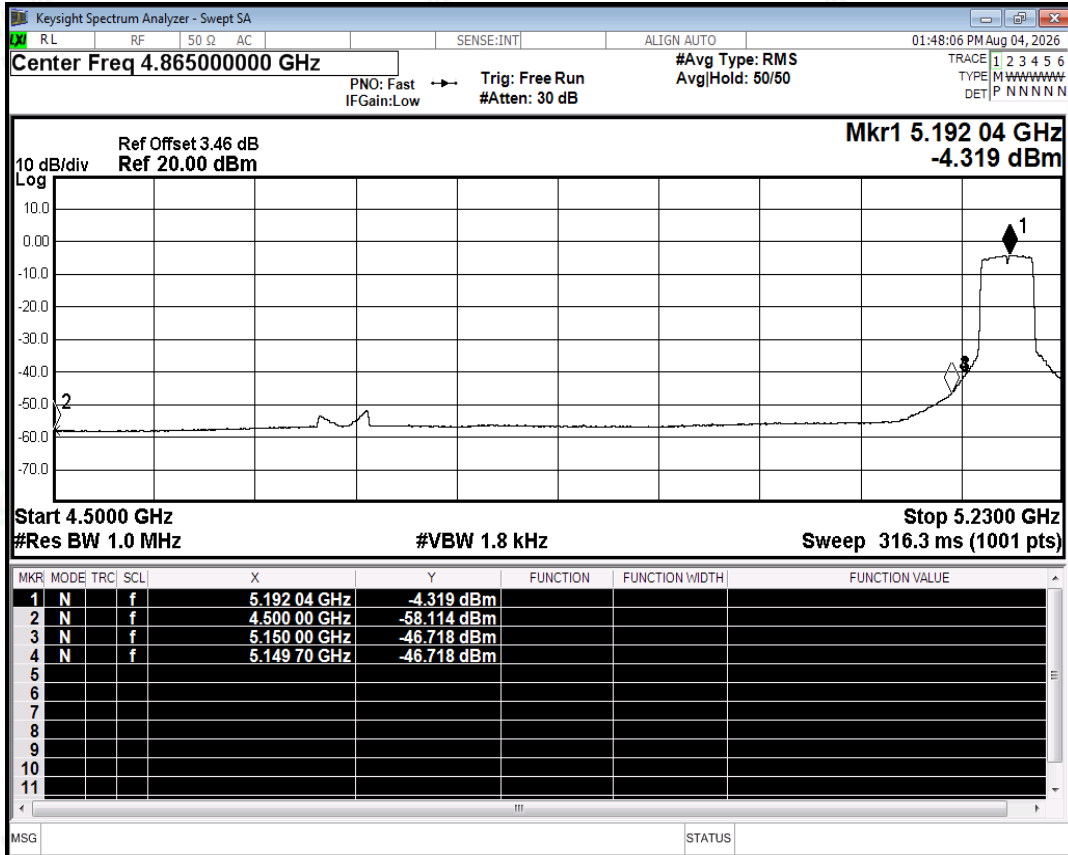


Restrict Band NVNT ac20 5240MHz Ant1 Peak

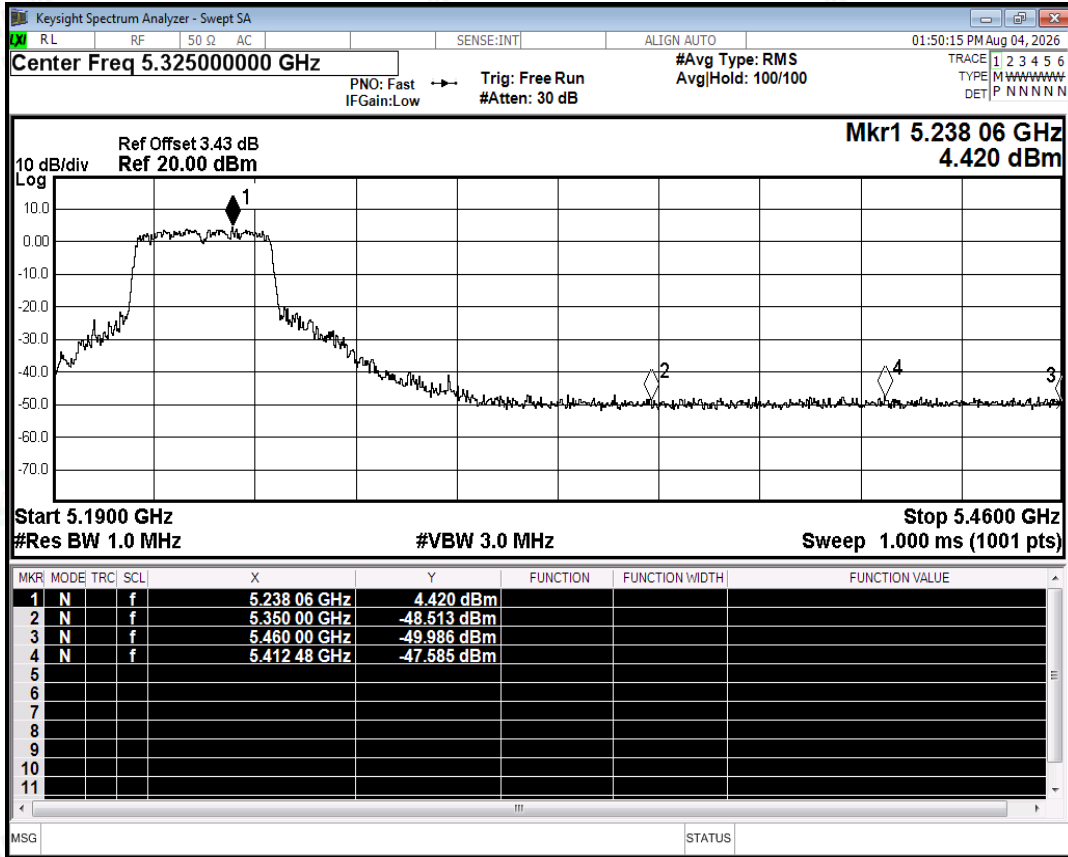




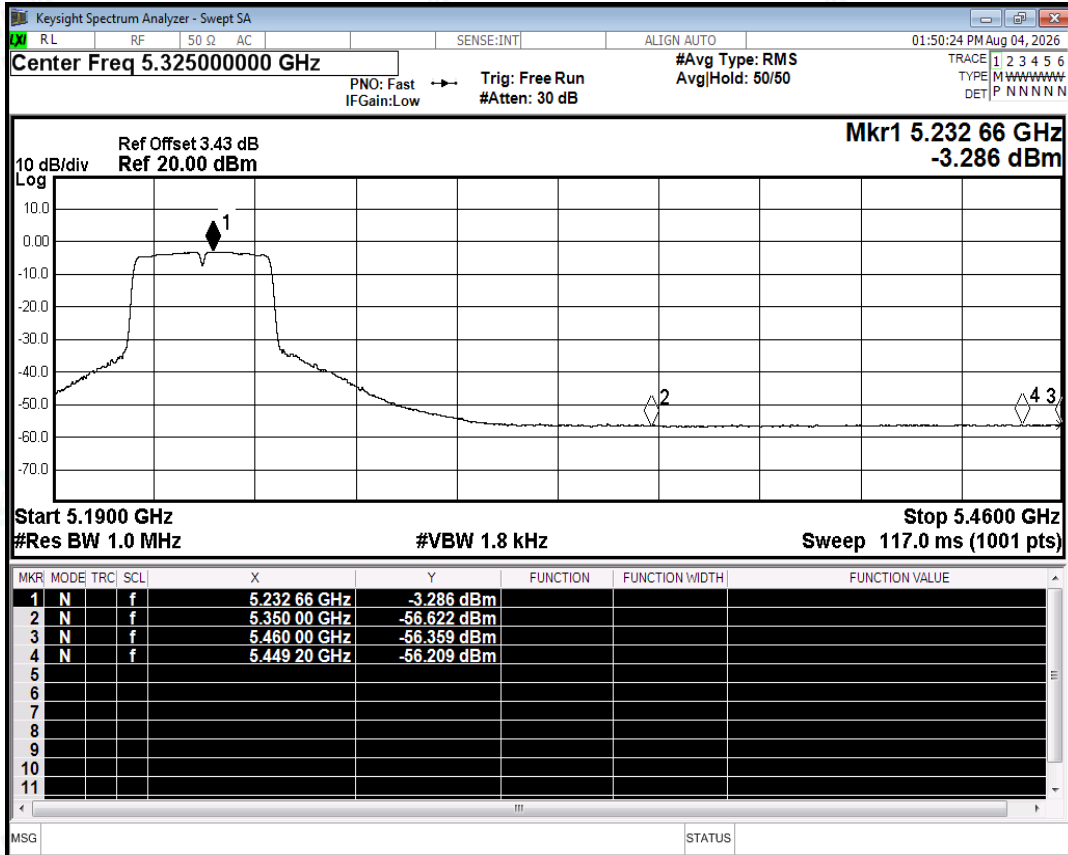
Restrict Band NVNT ac40 5190MHz Ant1 Peak



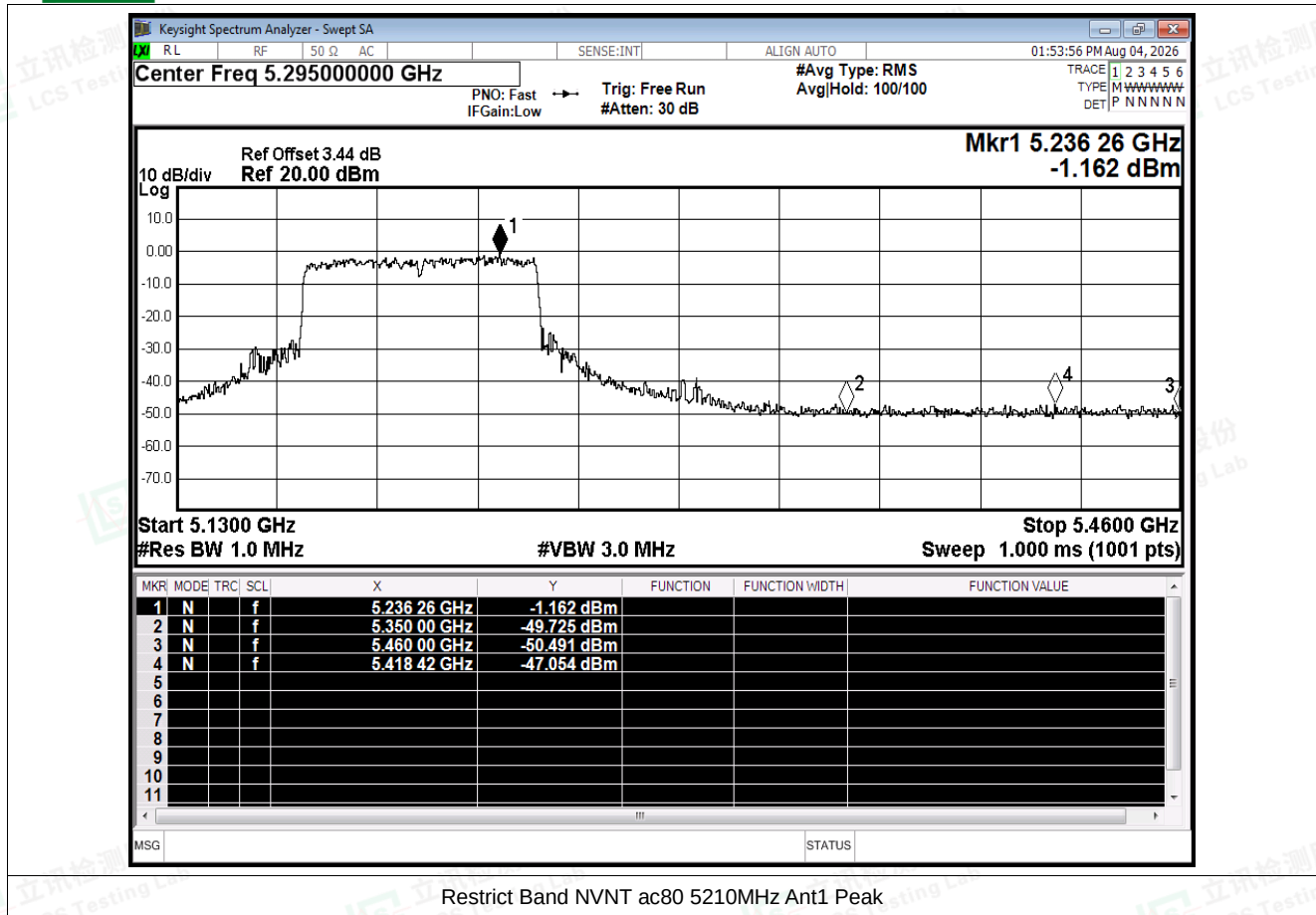
Restrict Band NVNT ac40 5190MHz Ant1 Average

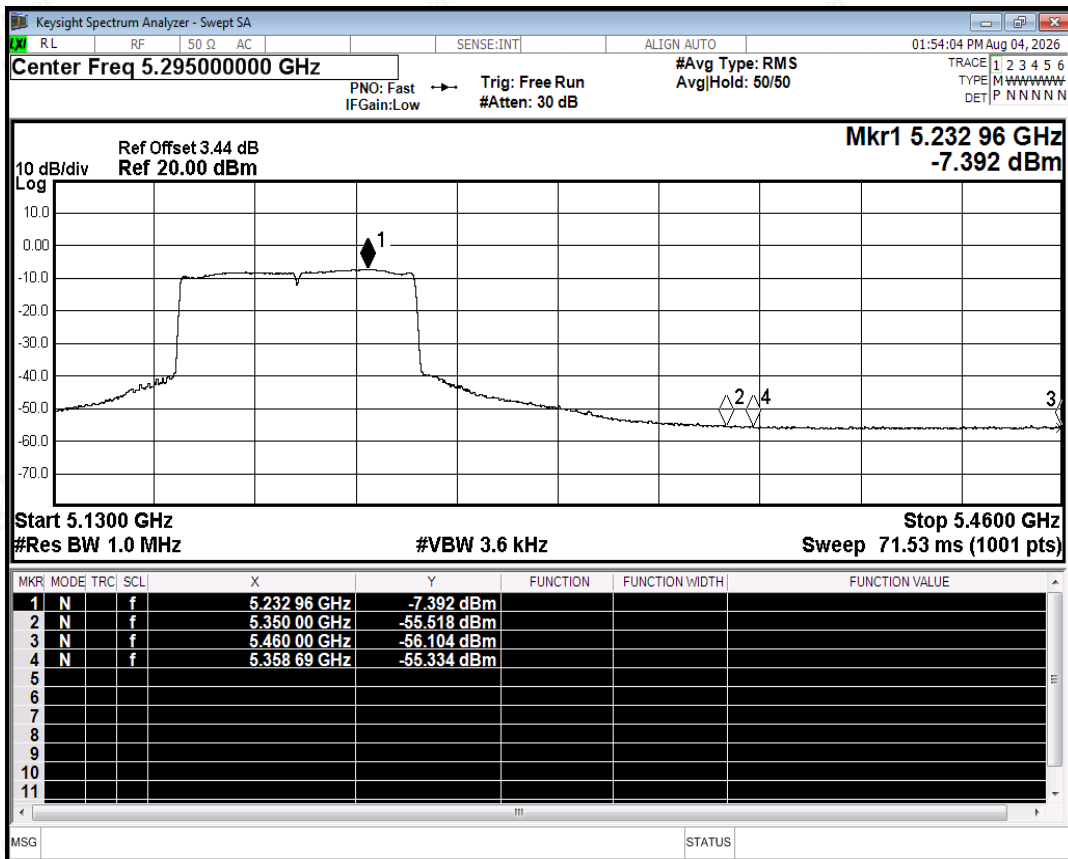


Restrict Band NVNT ac40 5230MHz Ant1 Peak

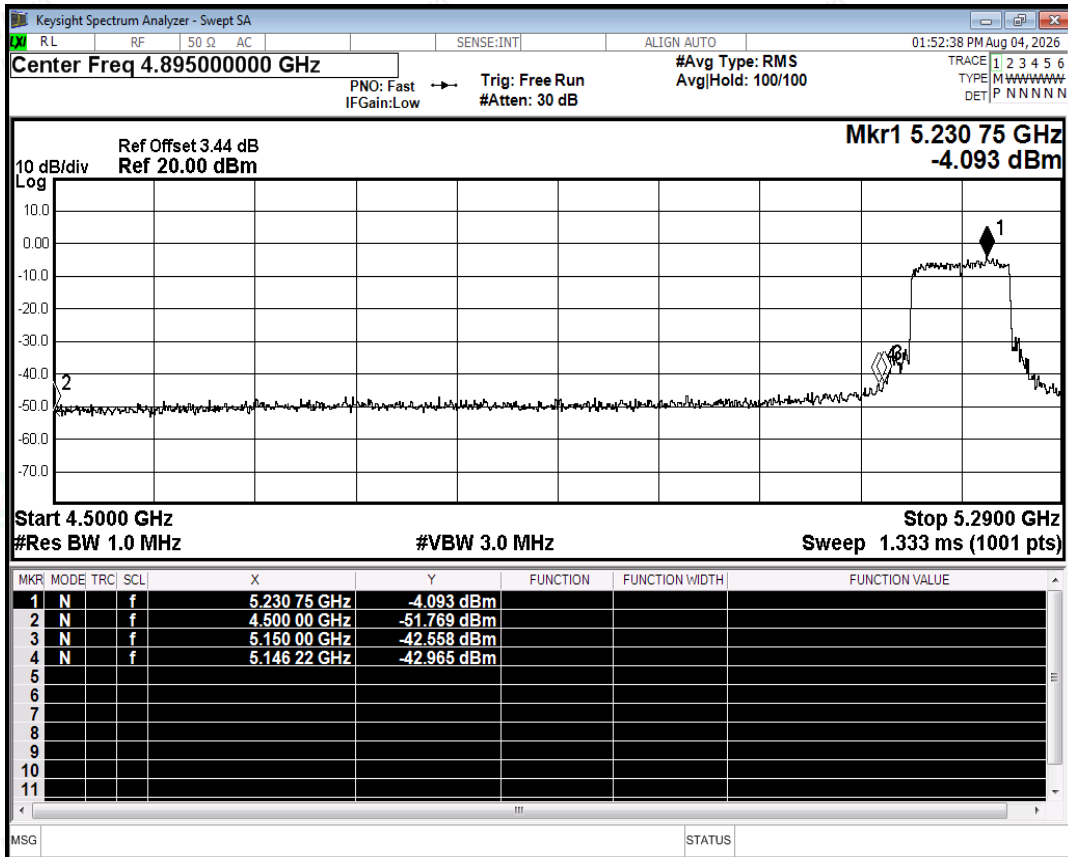


Restrict Band NVNT ac40 5230MHz Ant1 Average

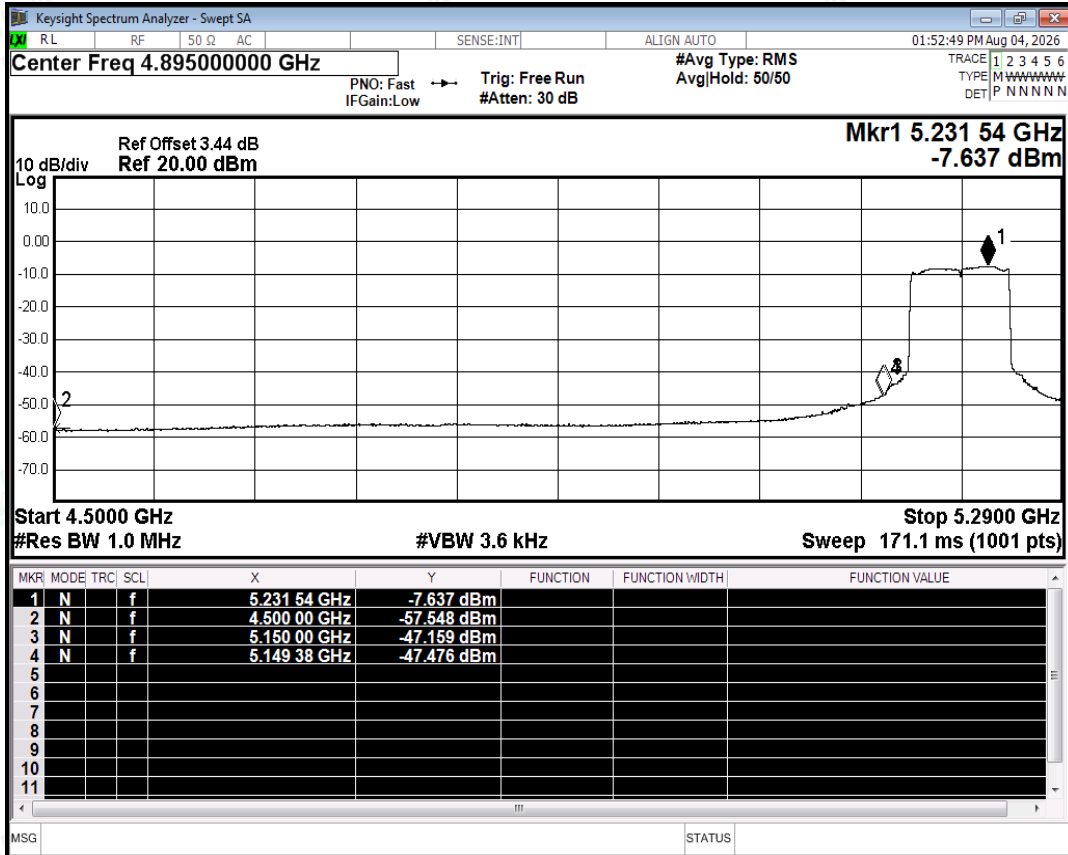




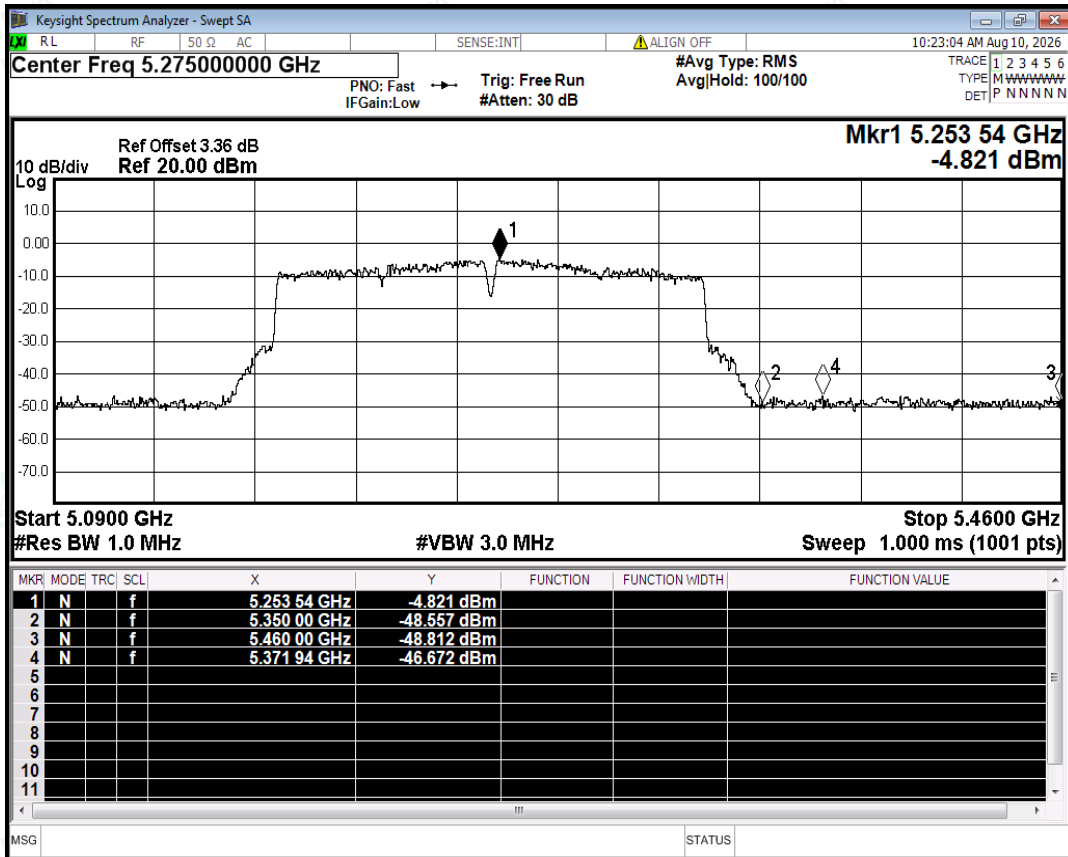
Restrict Band NVNT ac80 5210MHz Ant1 Average



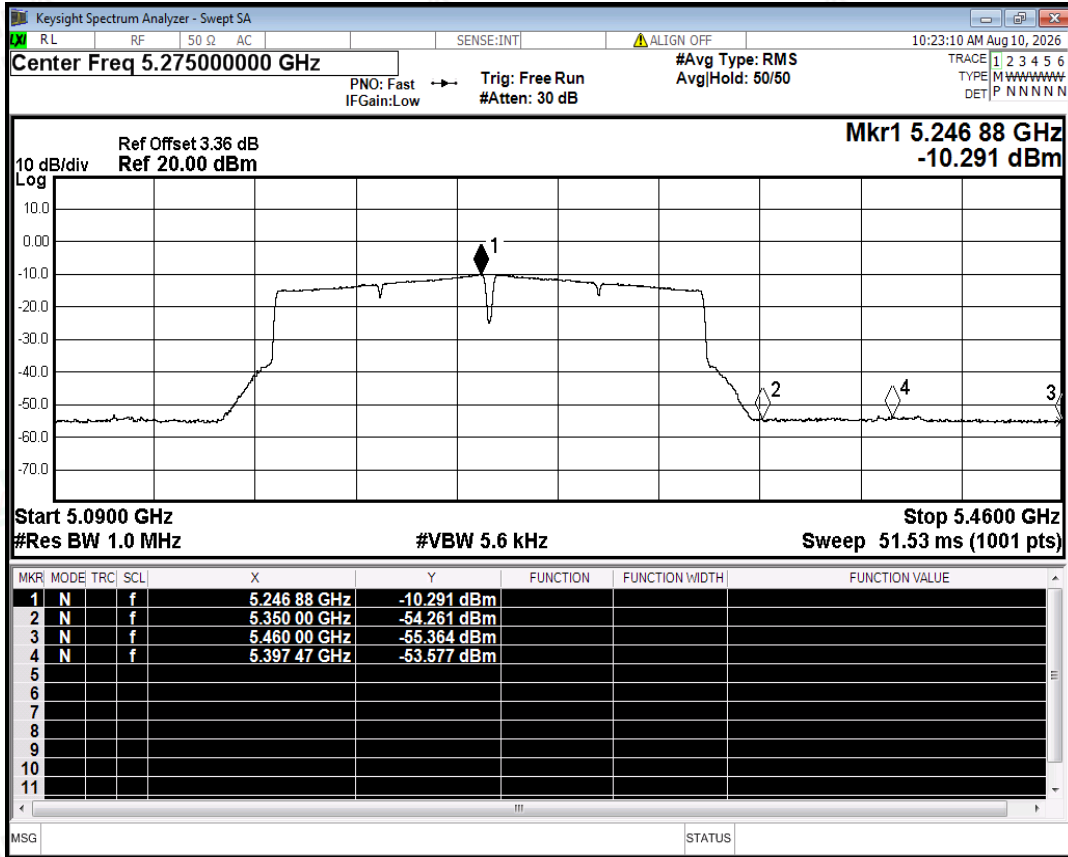
Restrict Band NVNT ac80 5210MHz Ant1 Peak



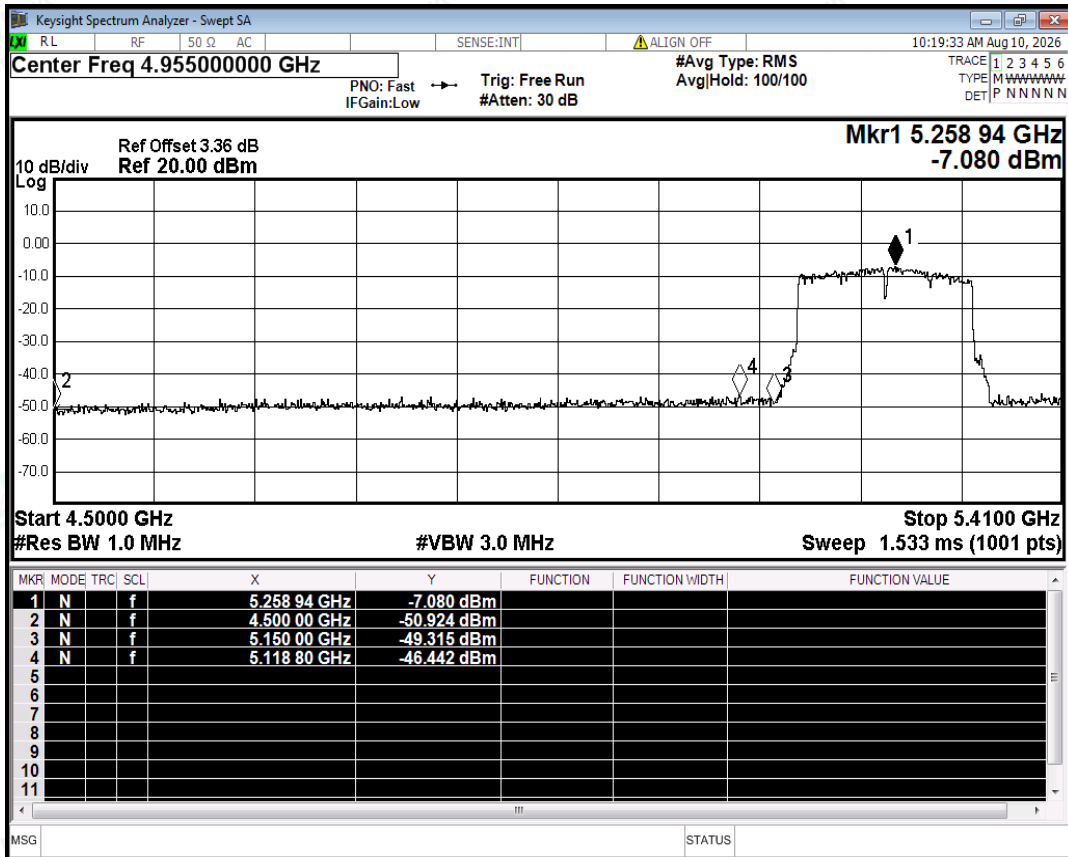
Restrict Band NVNT ac80 5210MHz Ant1 Average



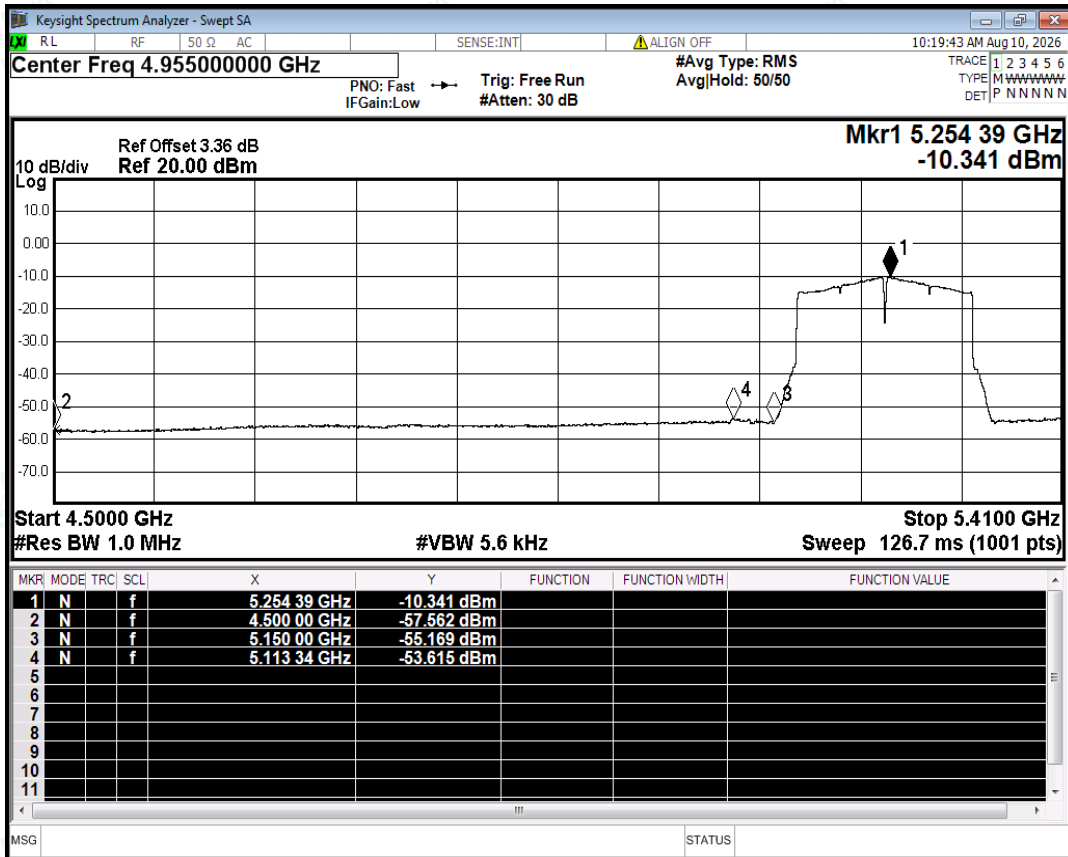
Restrict Band NVNT ac160 5250MHz Ant1 Peak



Restrict Band NVNT ac160 5250MHz Ant1 Average



Restrict Band NVNT ac160 5250MHz Ant1 Peak

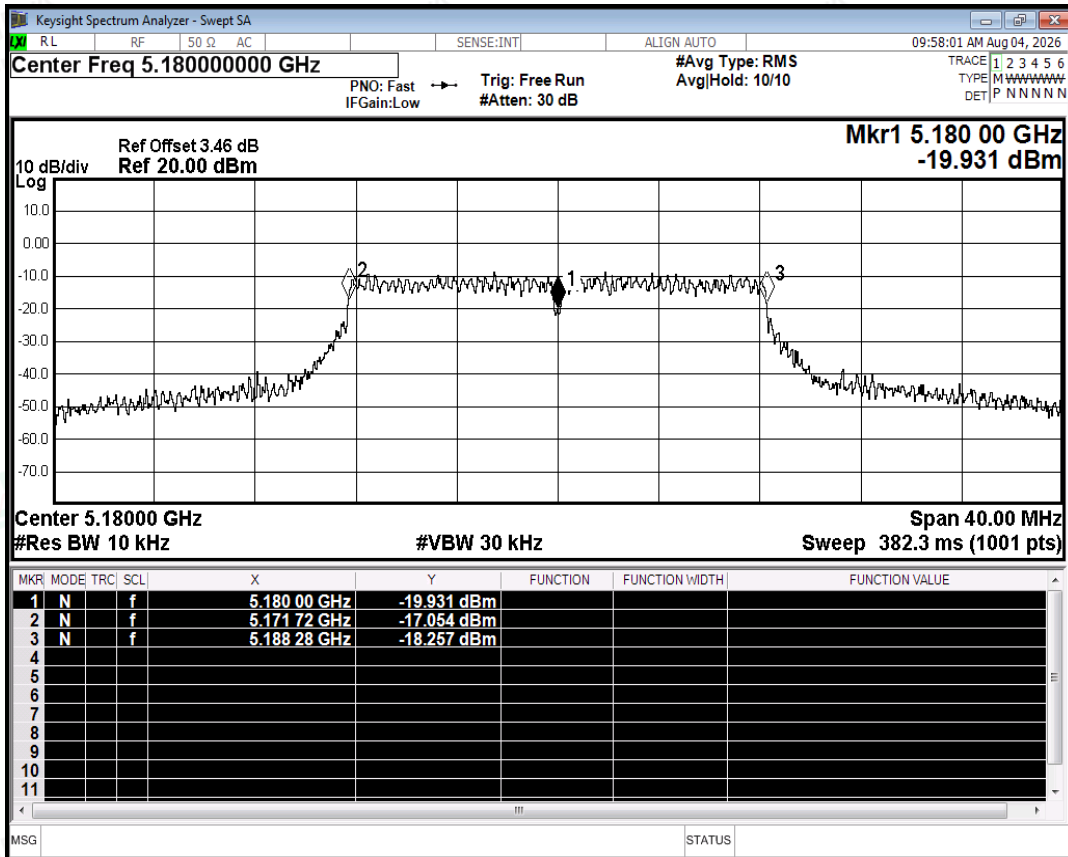


Restrict Band NVNT ac160 5250MHz Ant1 Average

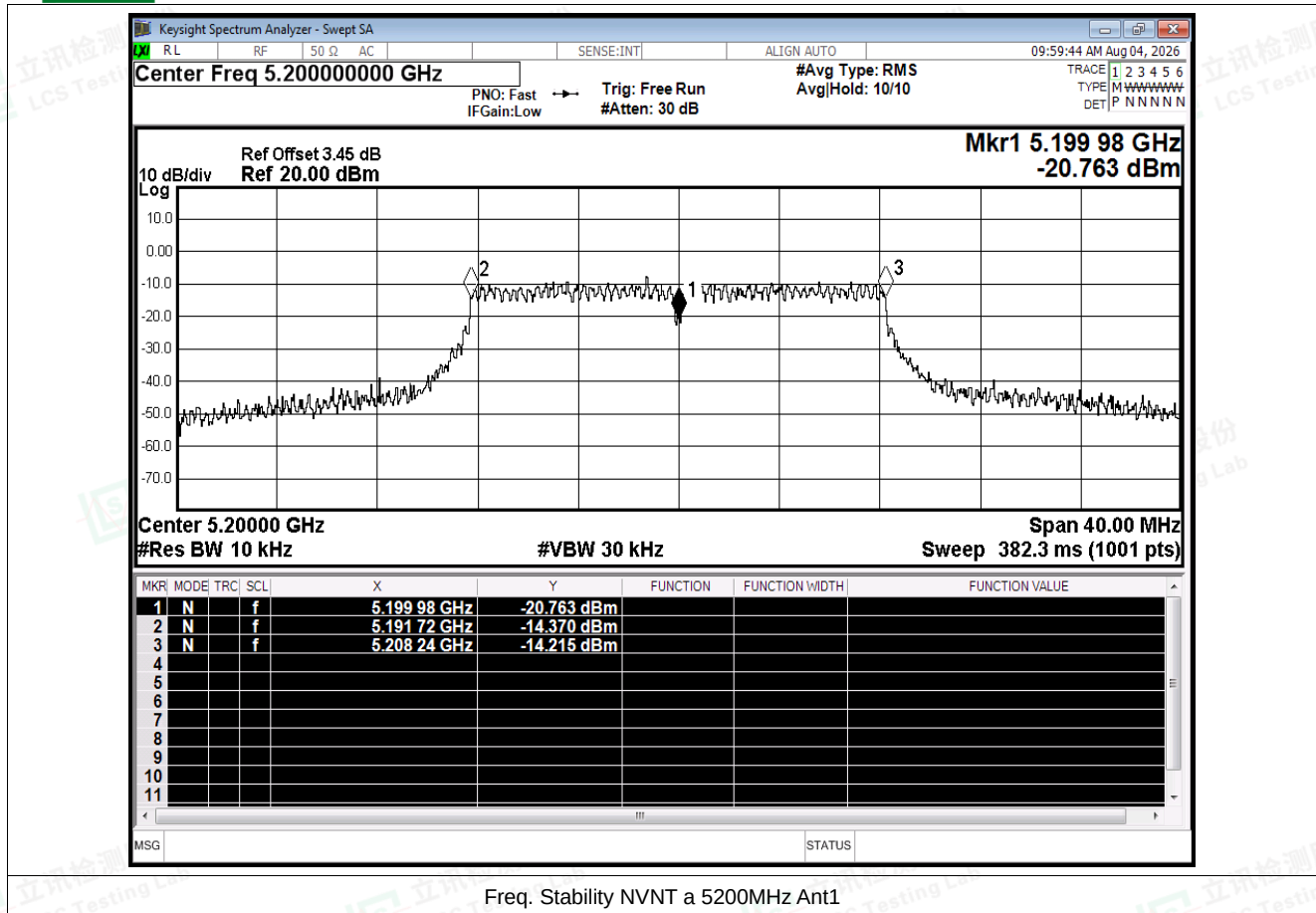


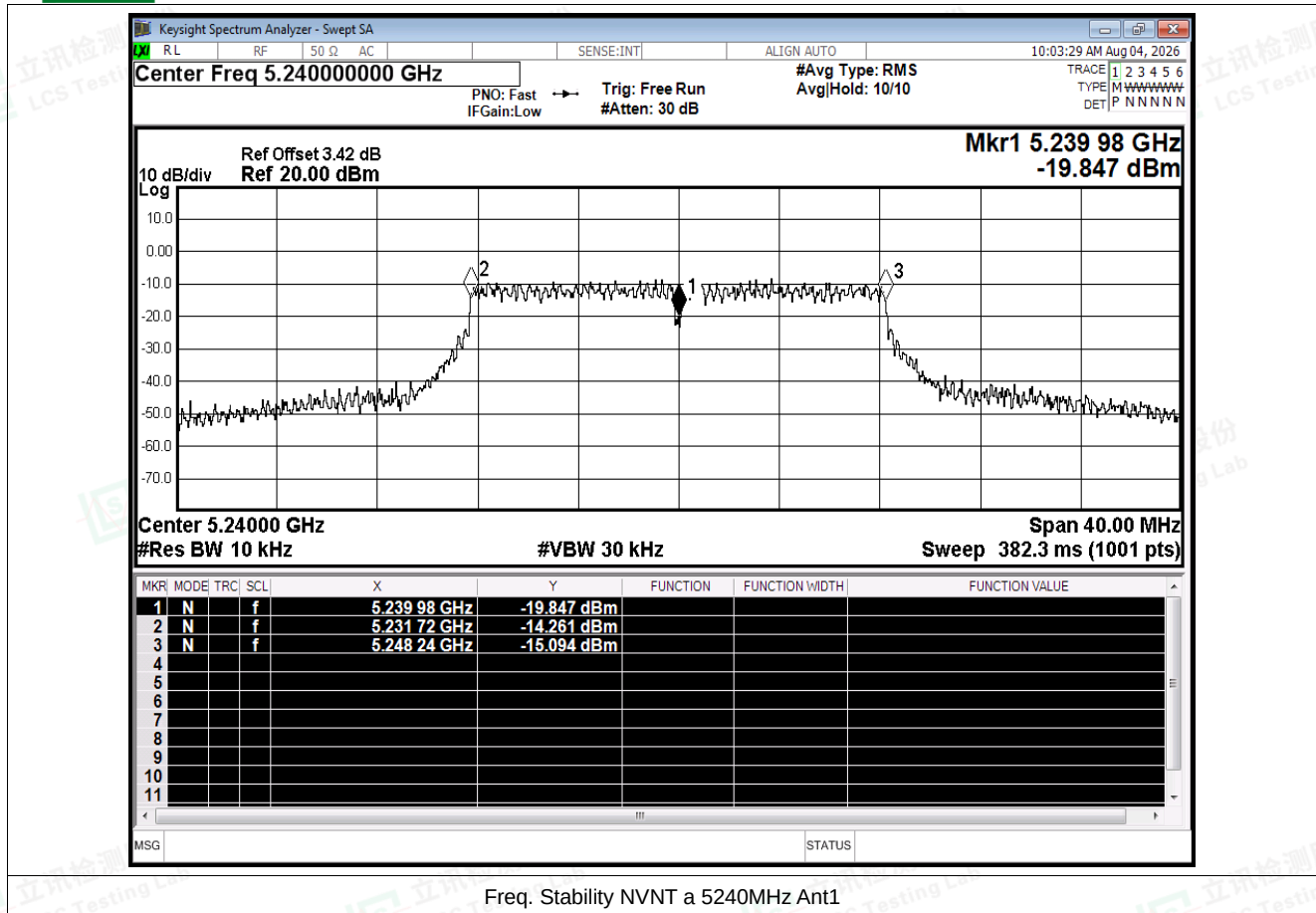
D.5 Frequency Stability

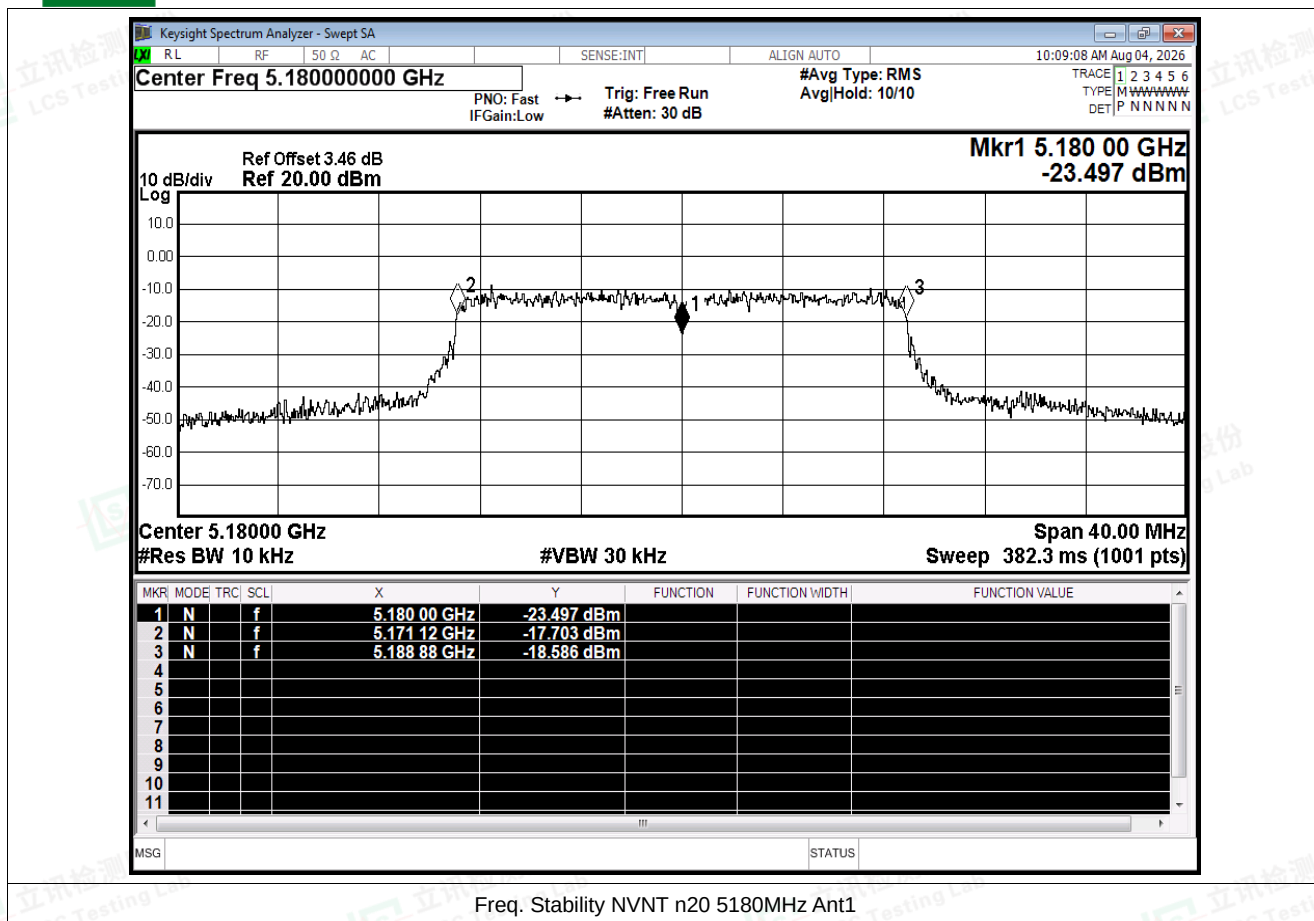
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5200	0	0	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5200	0	0	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass
NVNT	ac160	5250	Ant1	5250	0	0	25	Pass

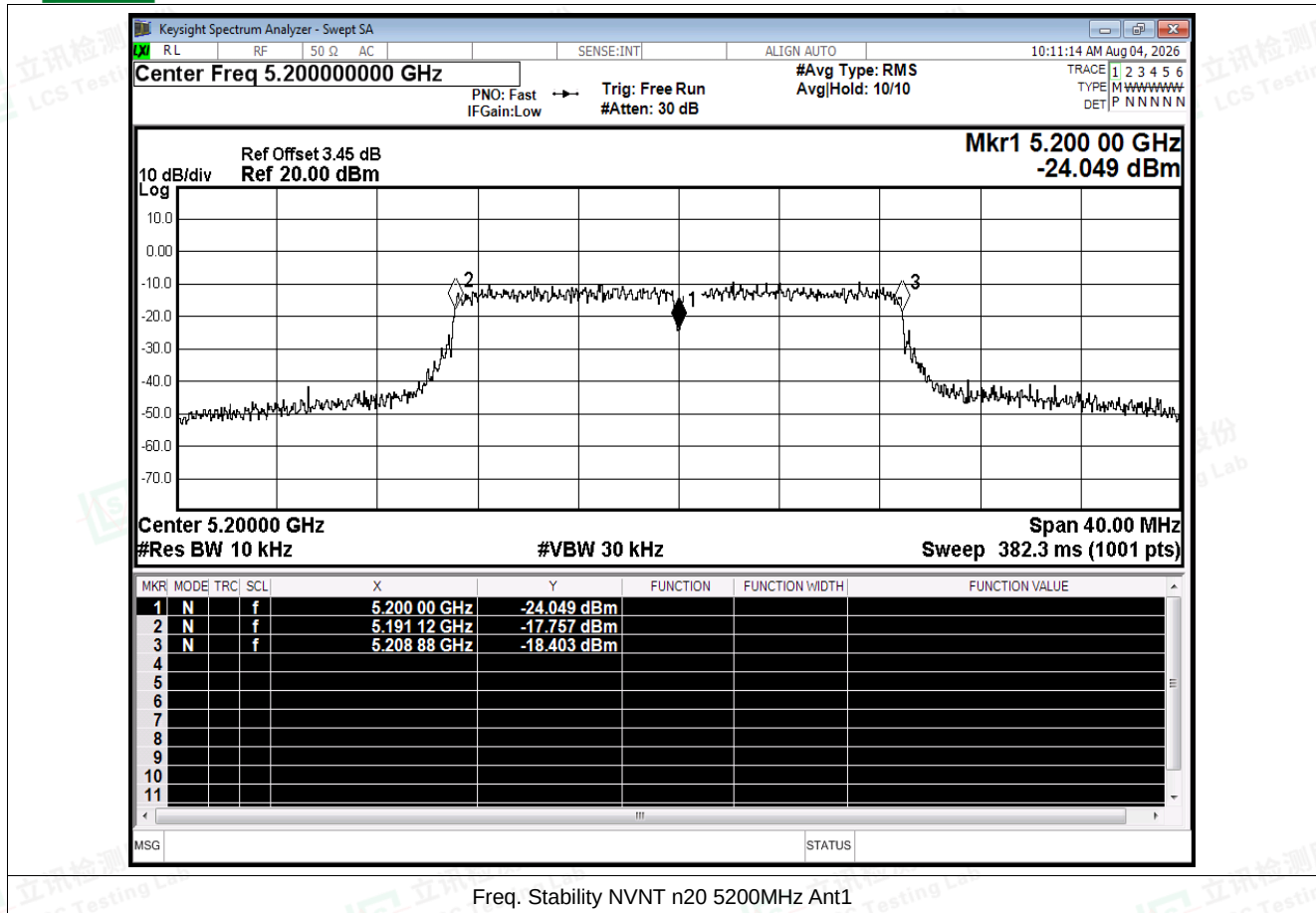


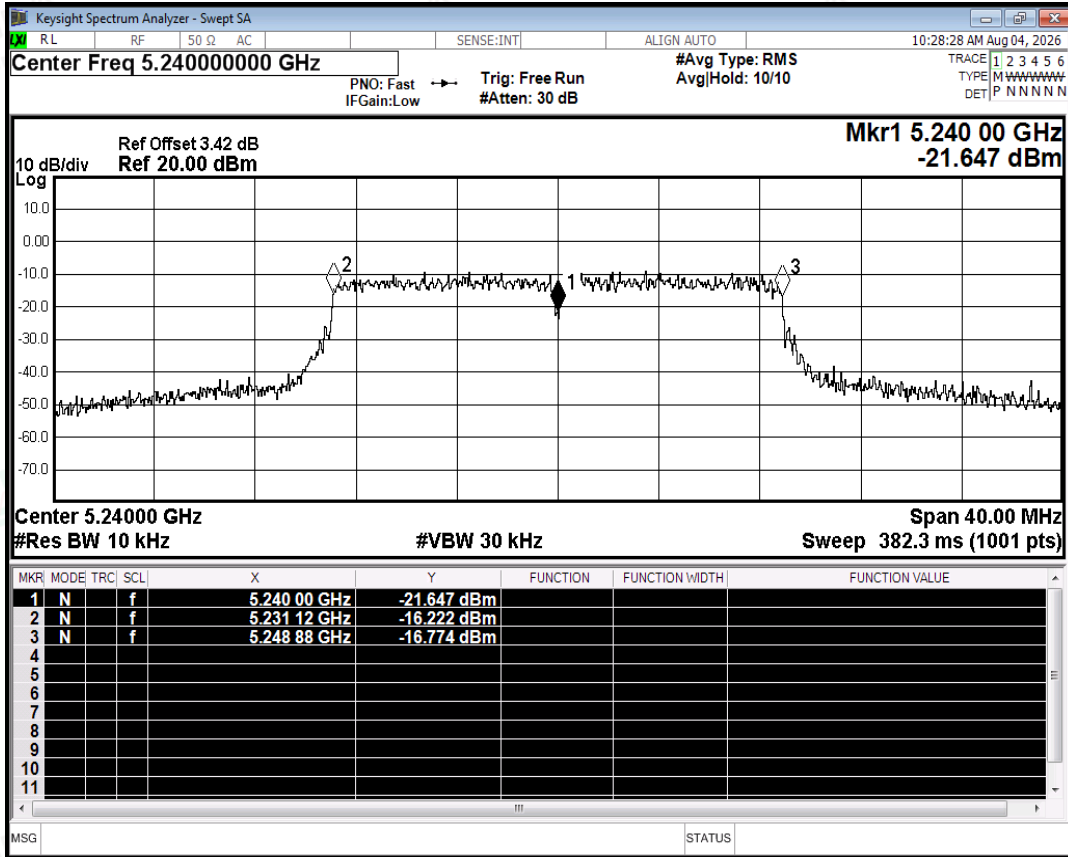
Freq. Stability NVNT a 5180MHz Ant1



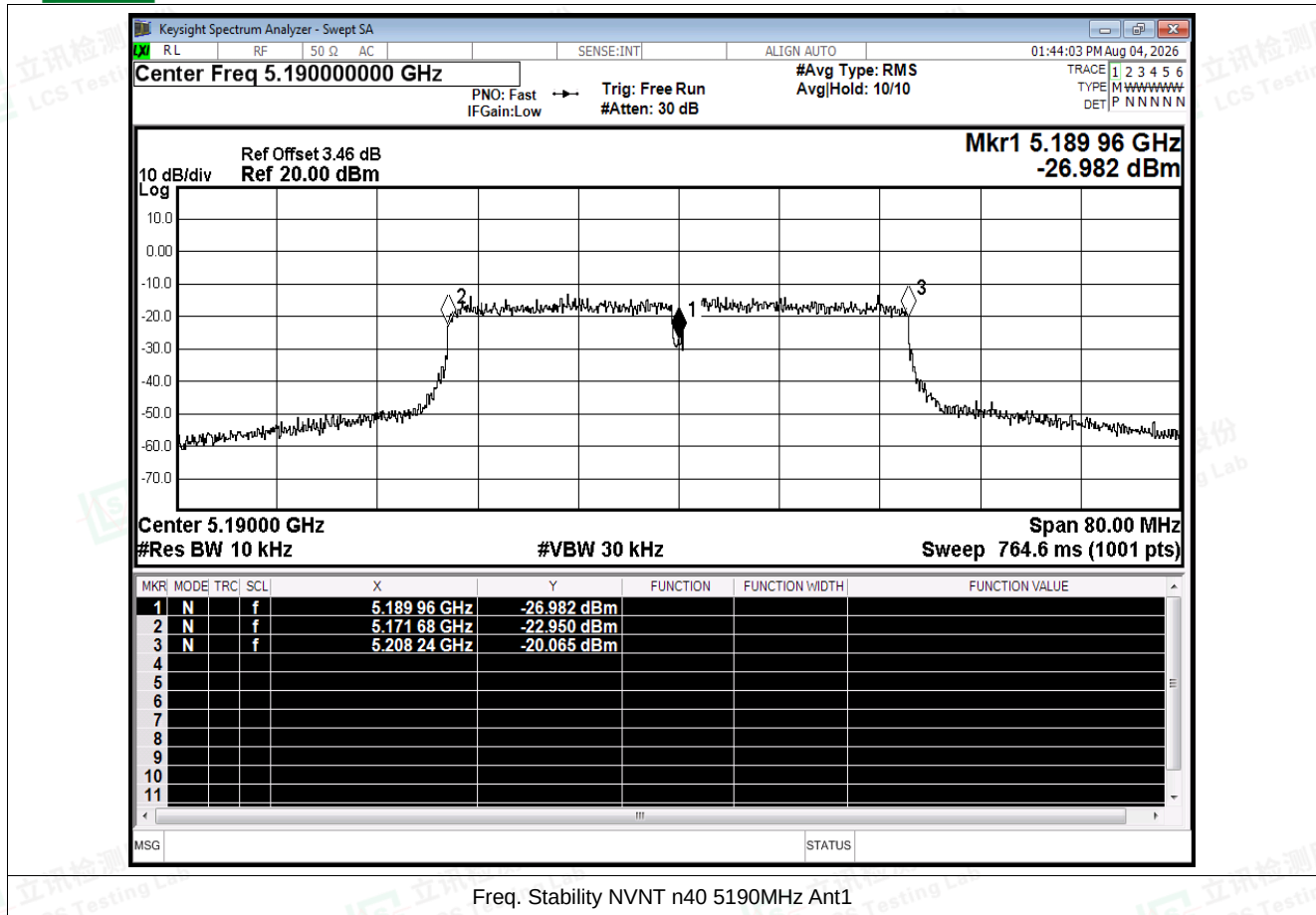


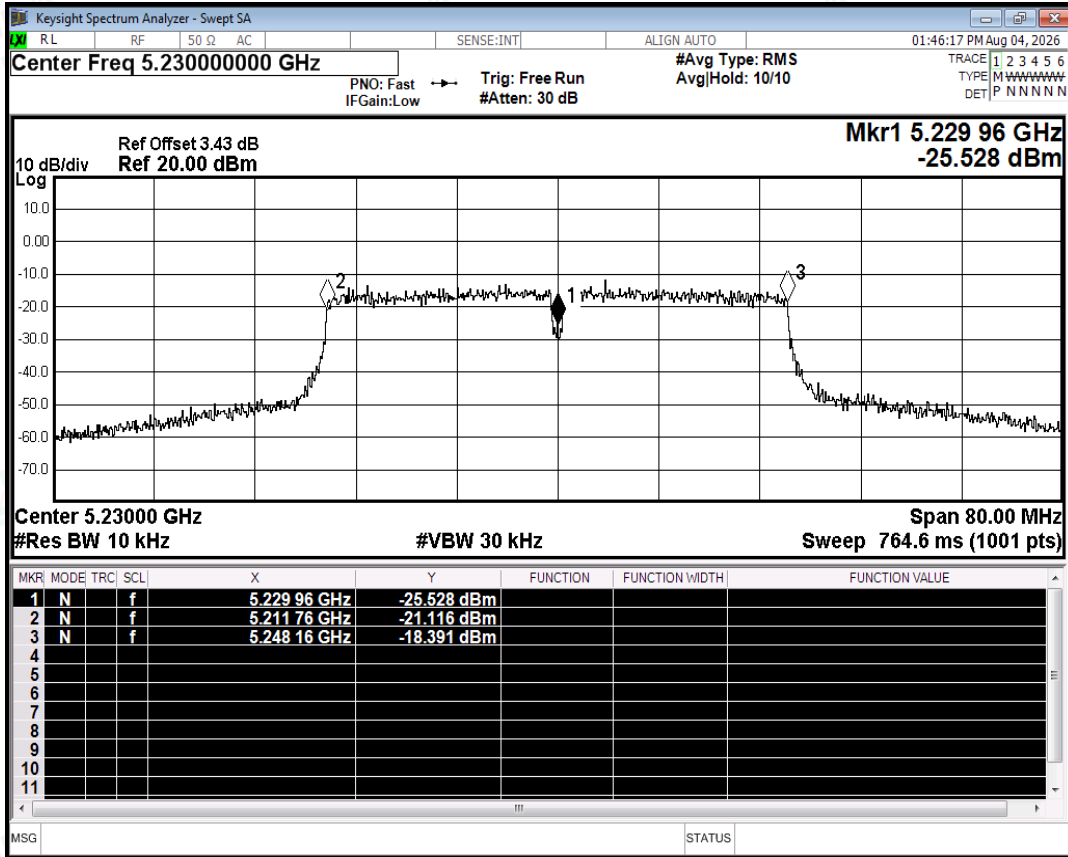




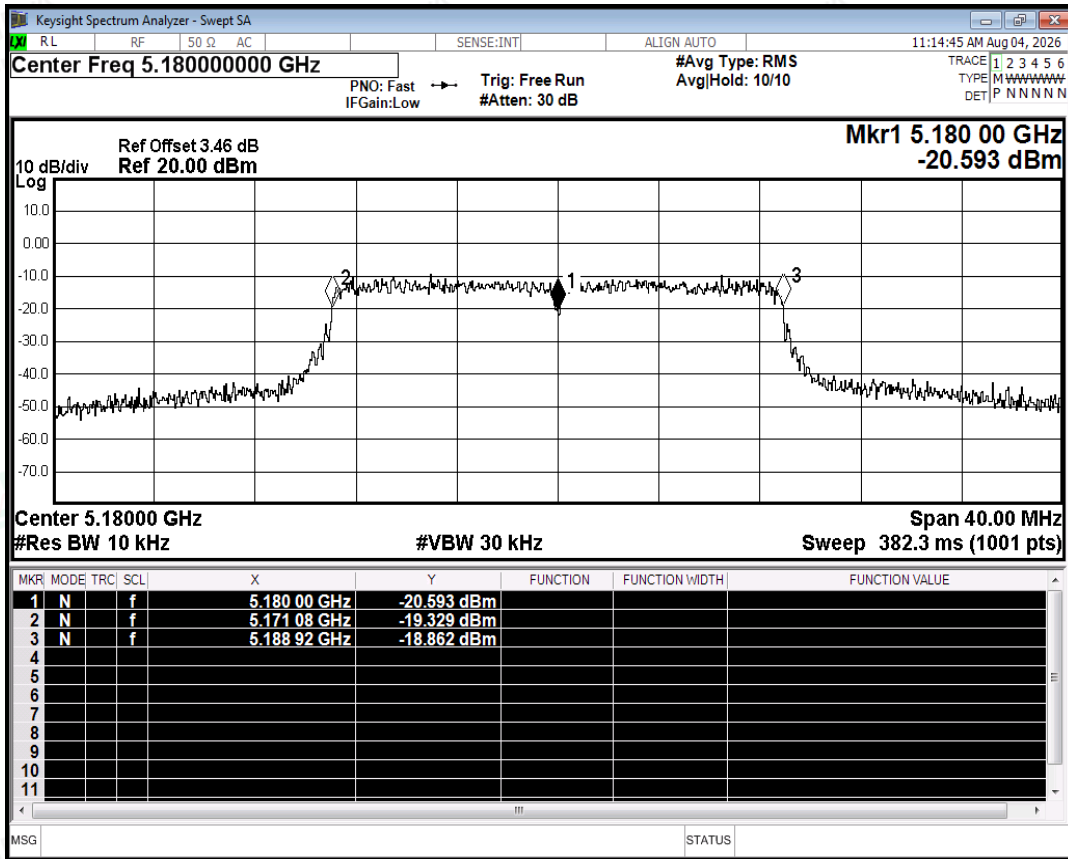


Freq. Stability NVNT n20 5240MHz Ant1

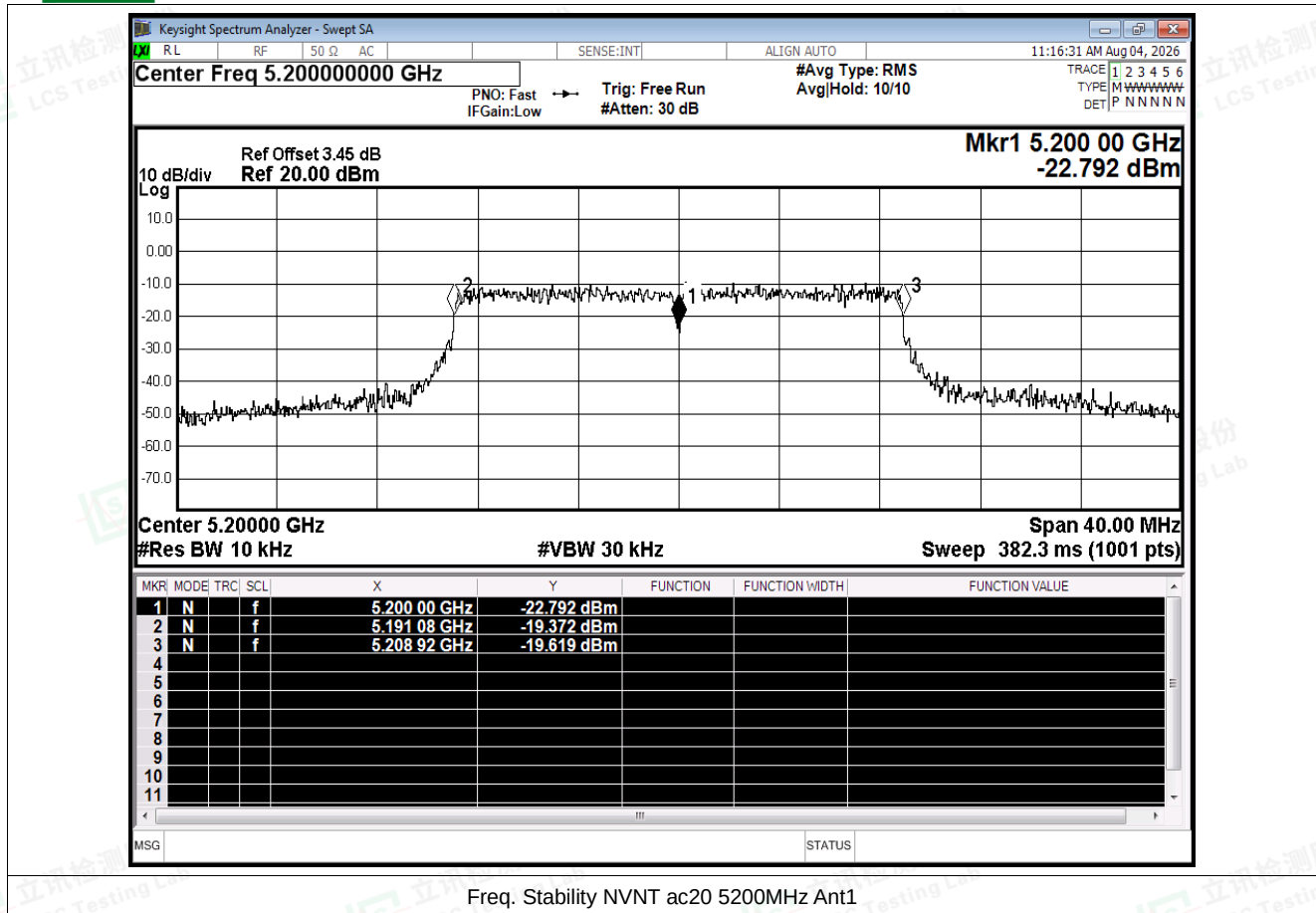


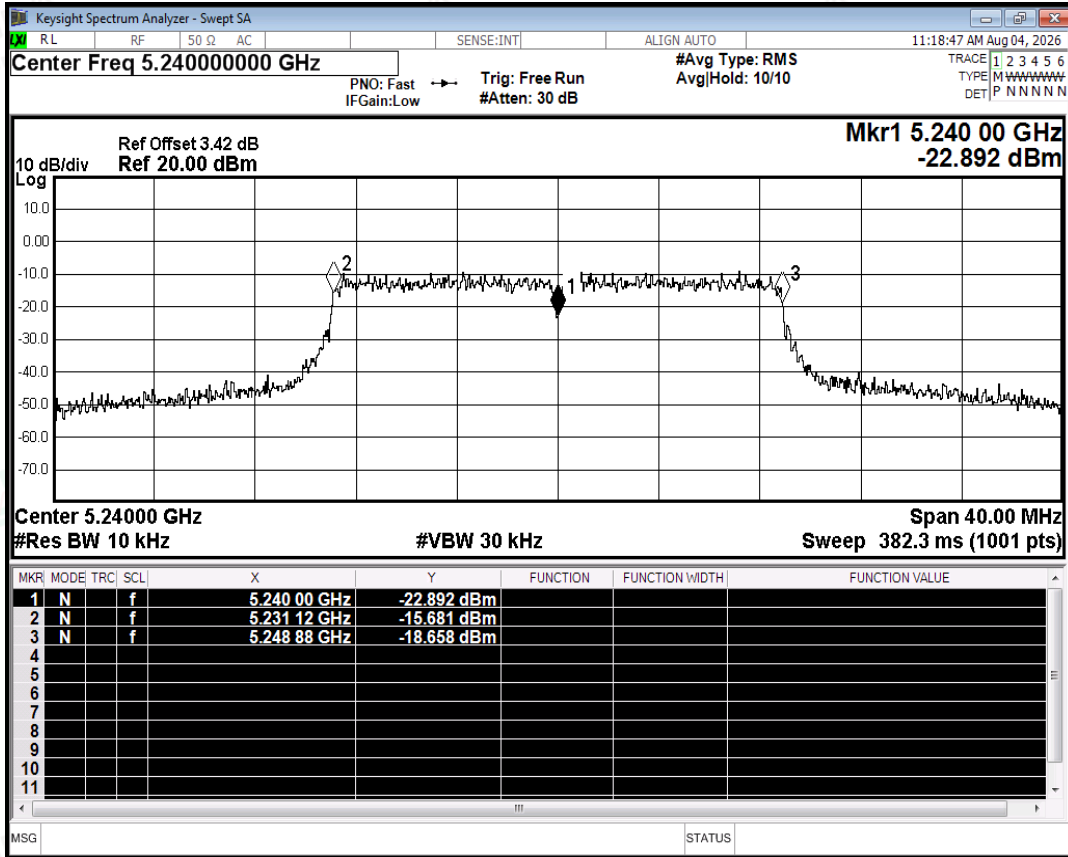


Freq. Stability NVNT n40 5230MHz Ant1

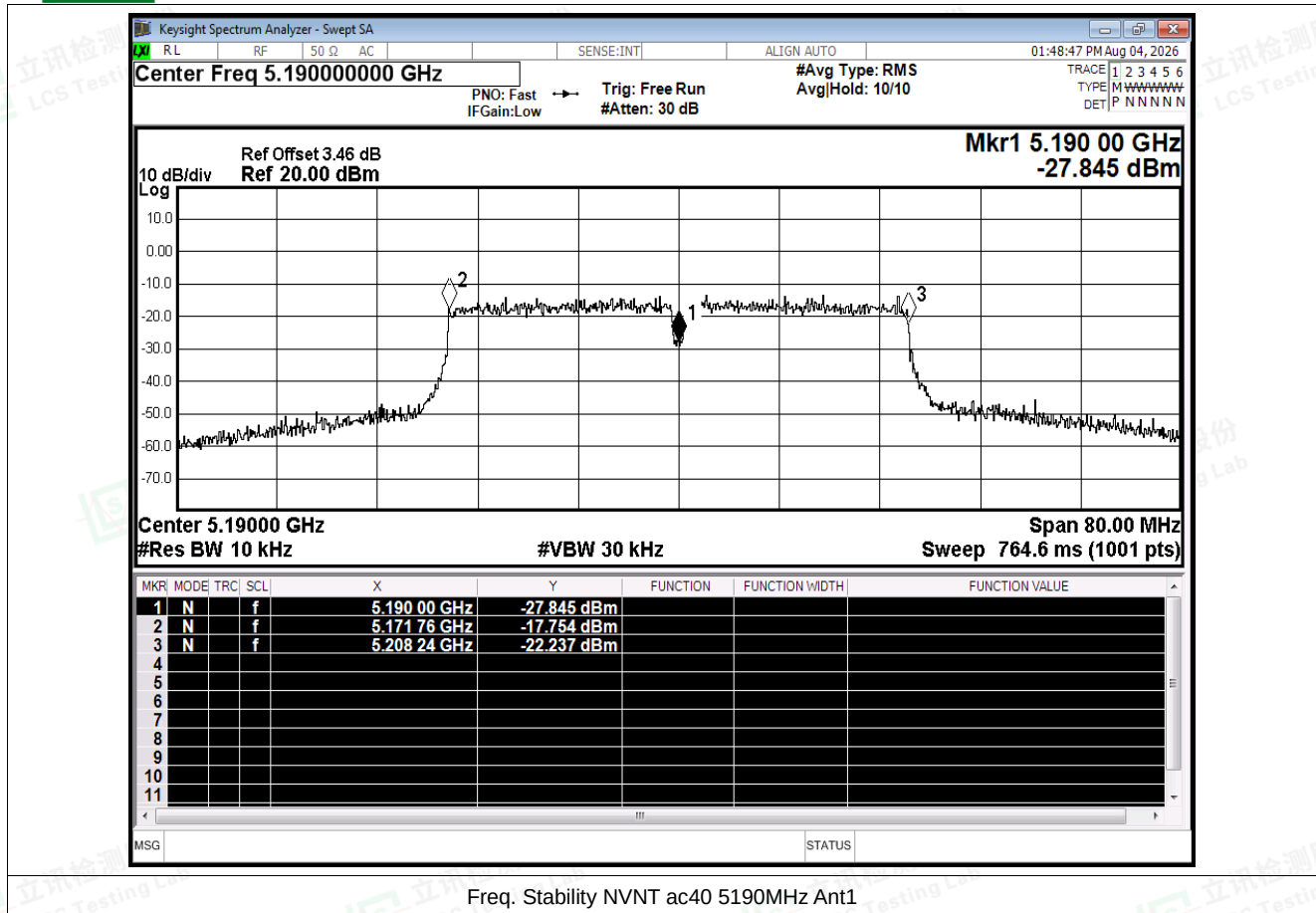


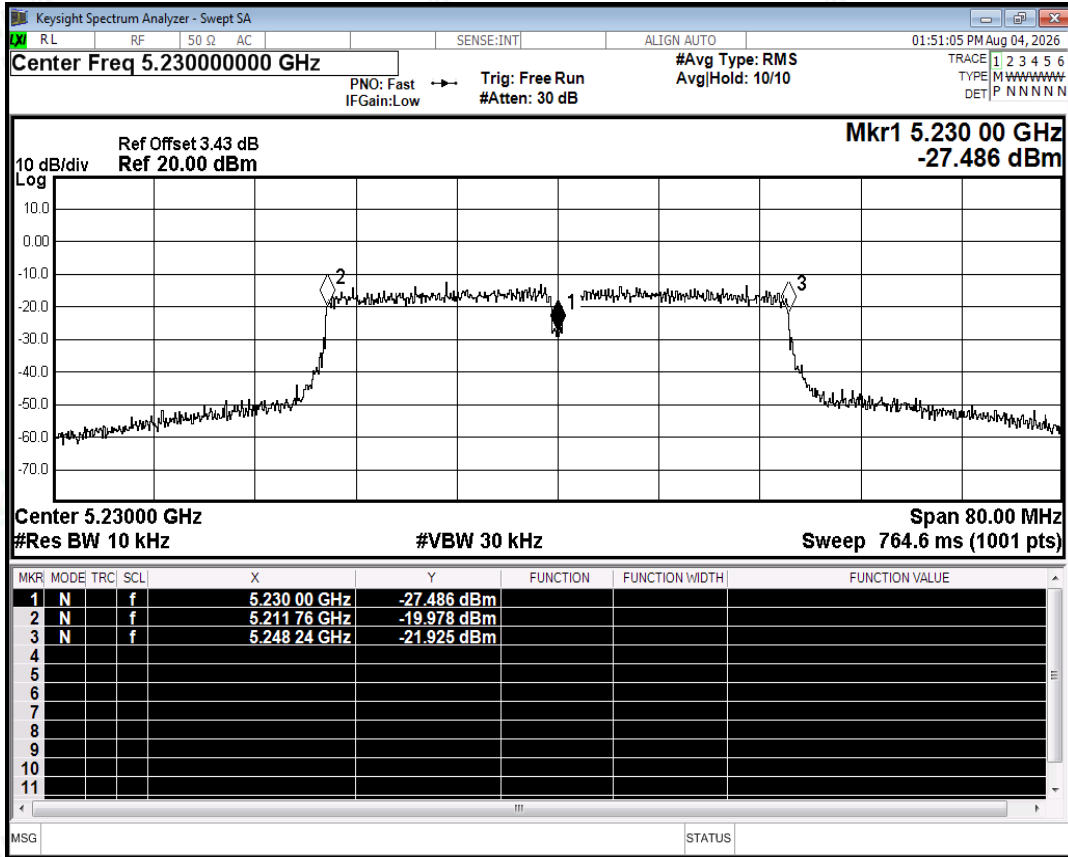
Freq. Stability NVNT ac20 5180MHz Ant1



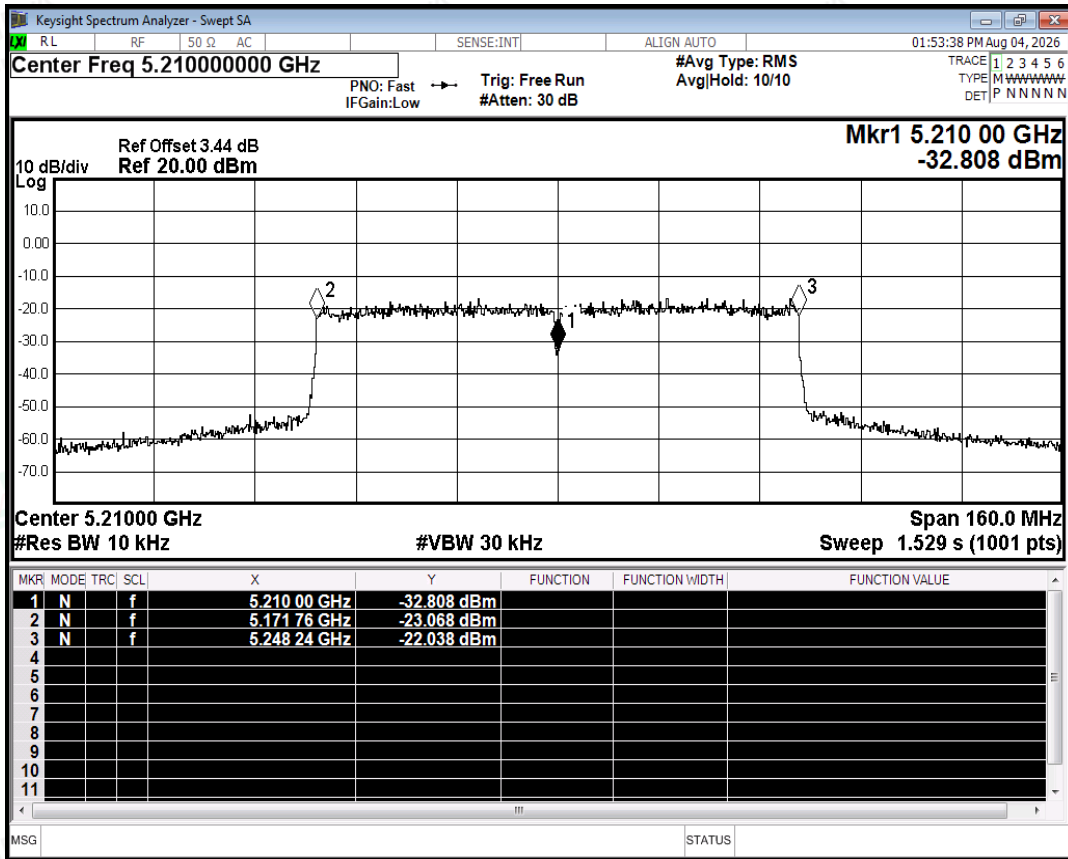


Freq. Stability NVNT ac20 5240MHz Ant1

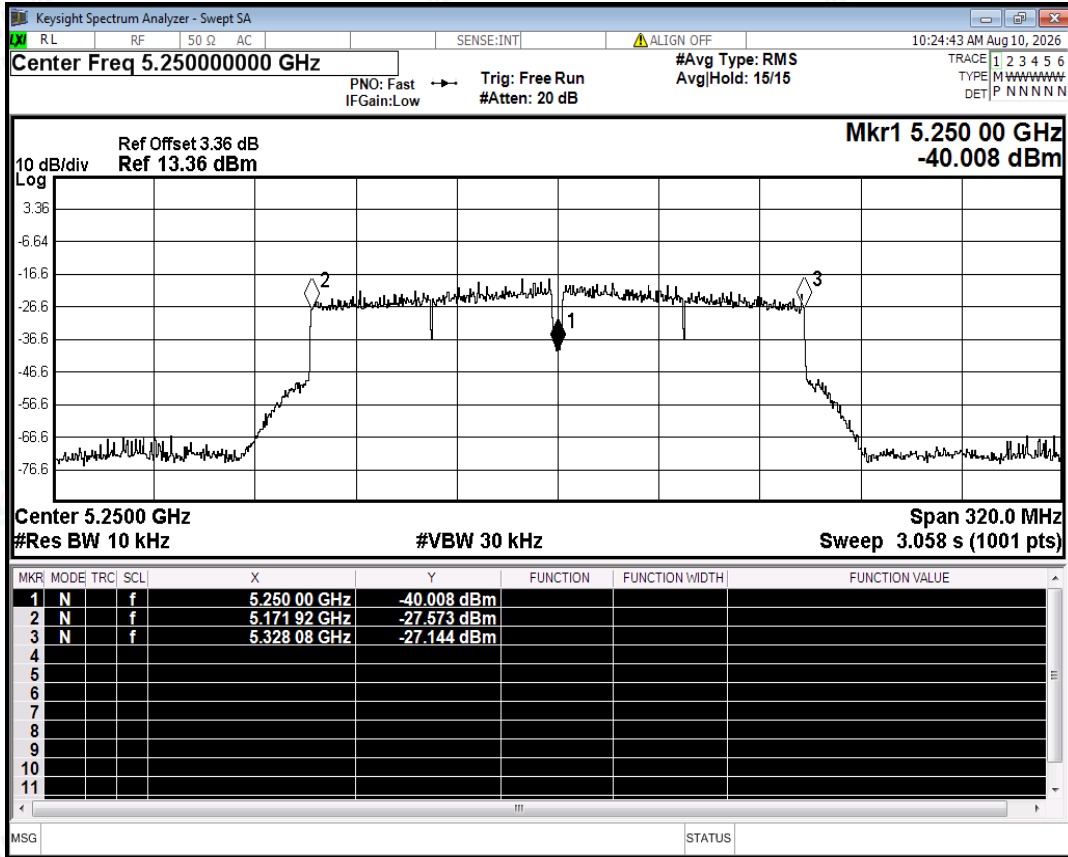




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1

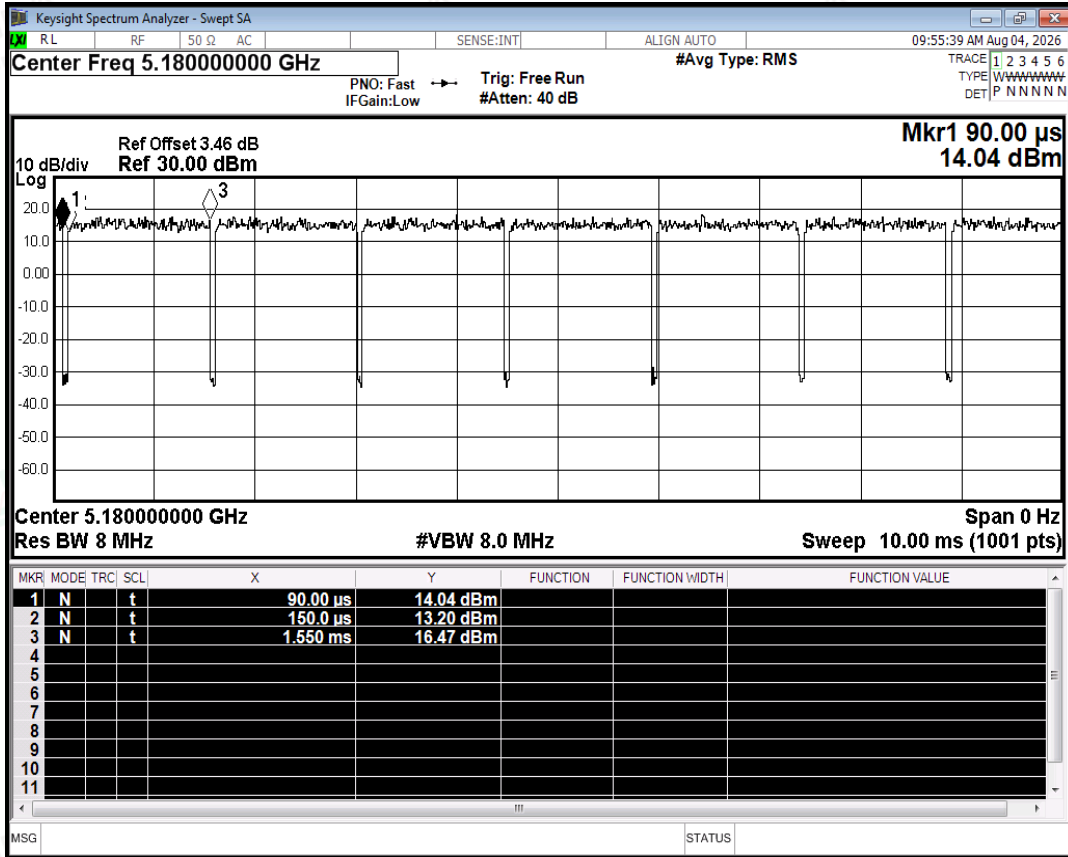


Freq. Stability NVNT ac160 5250MHz Ant1

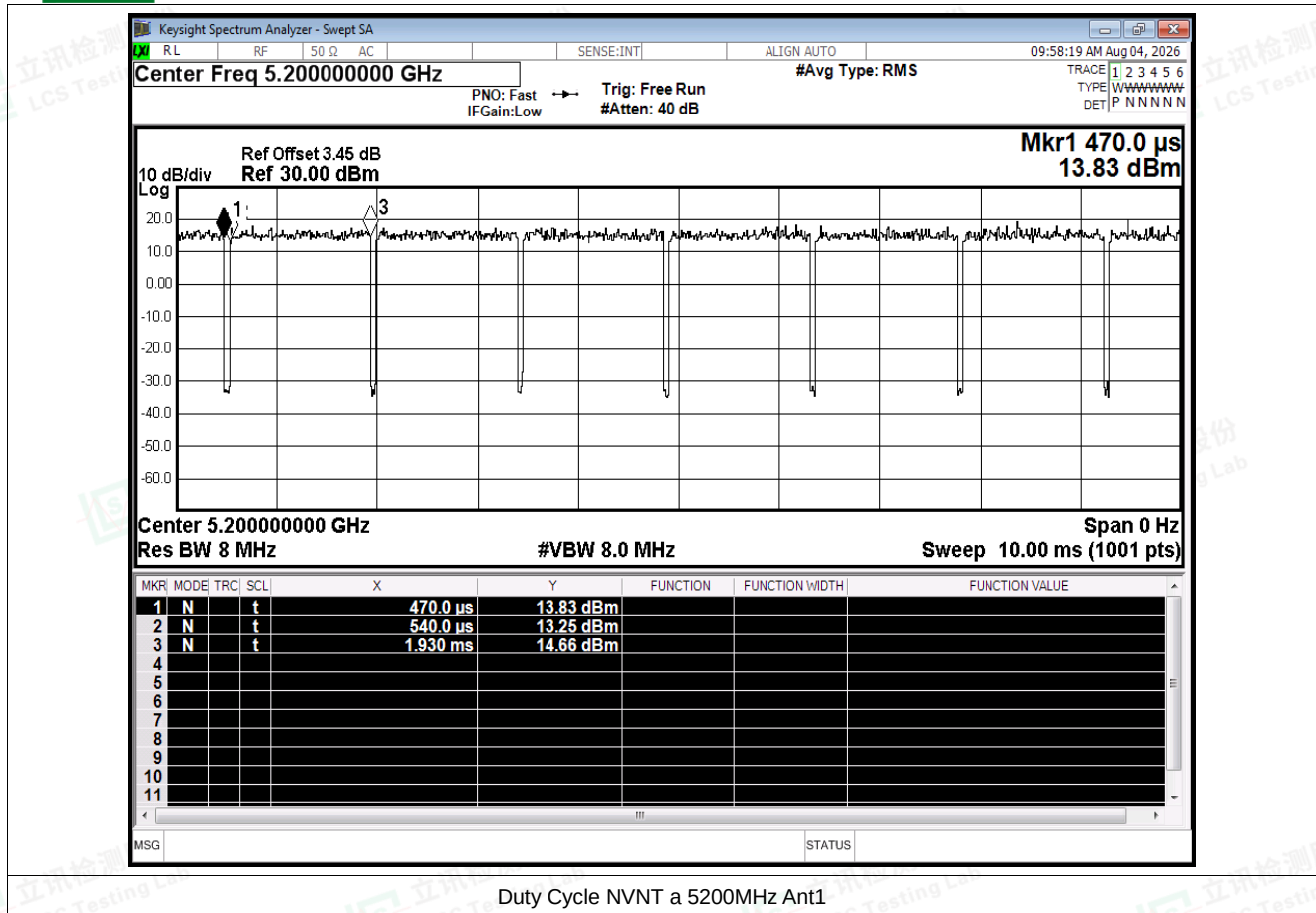


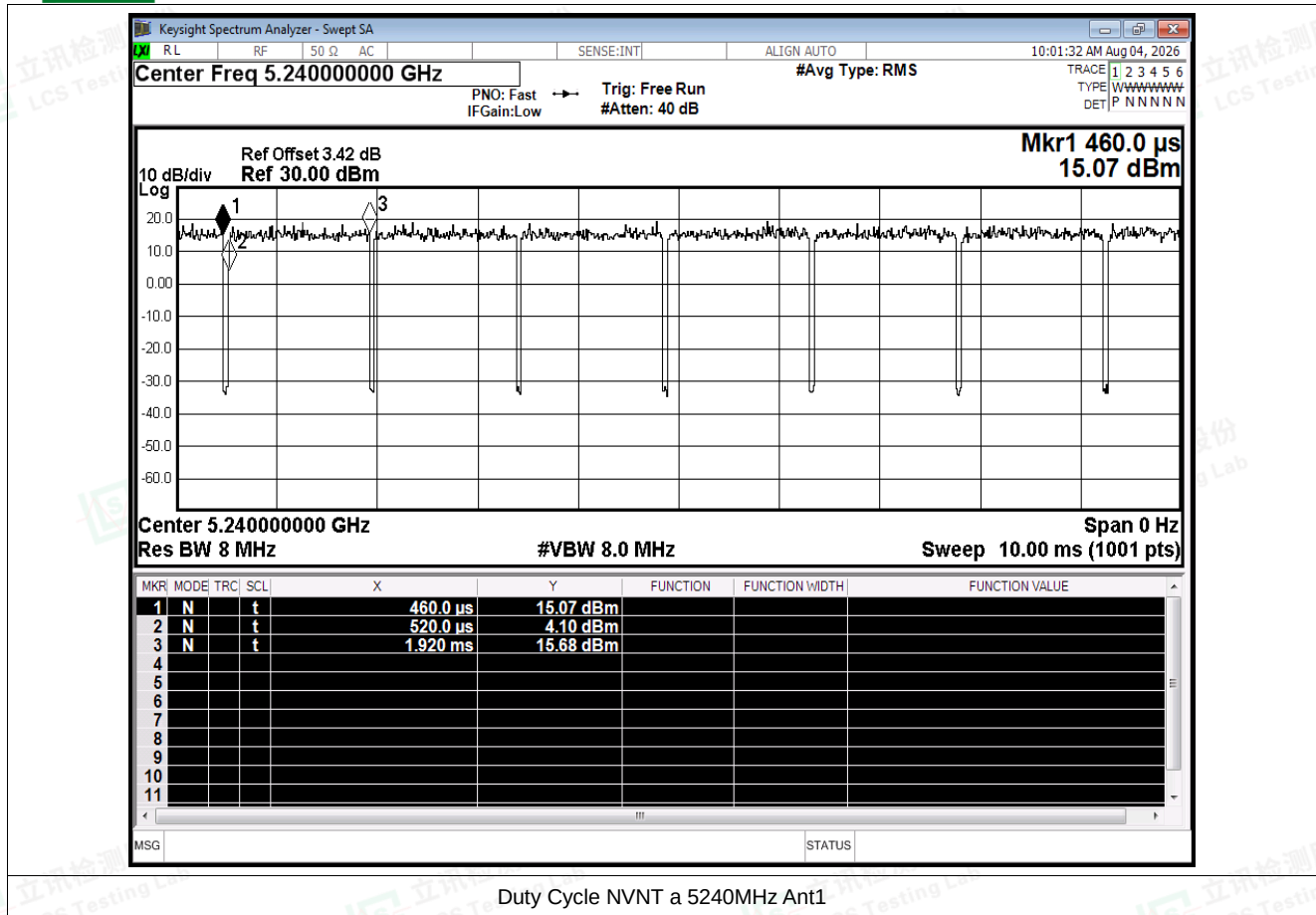
D.6 Duty Cycle

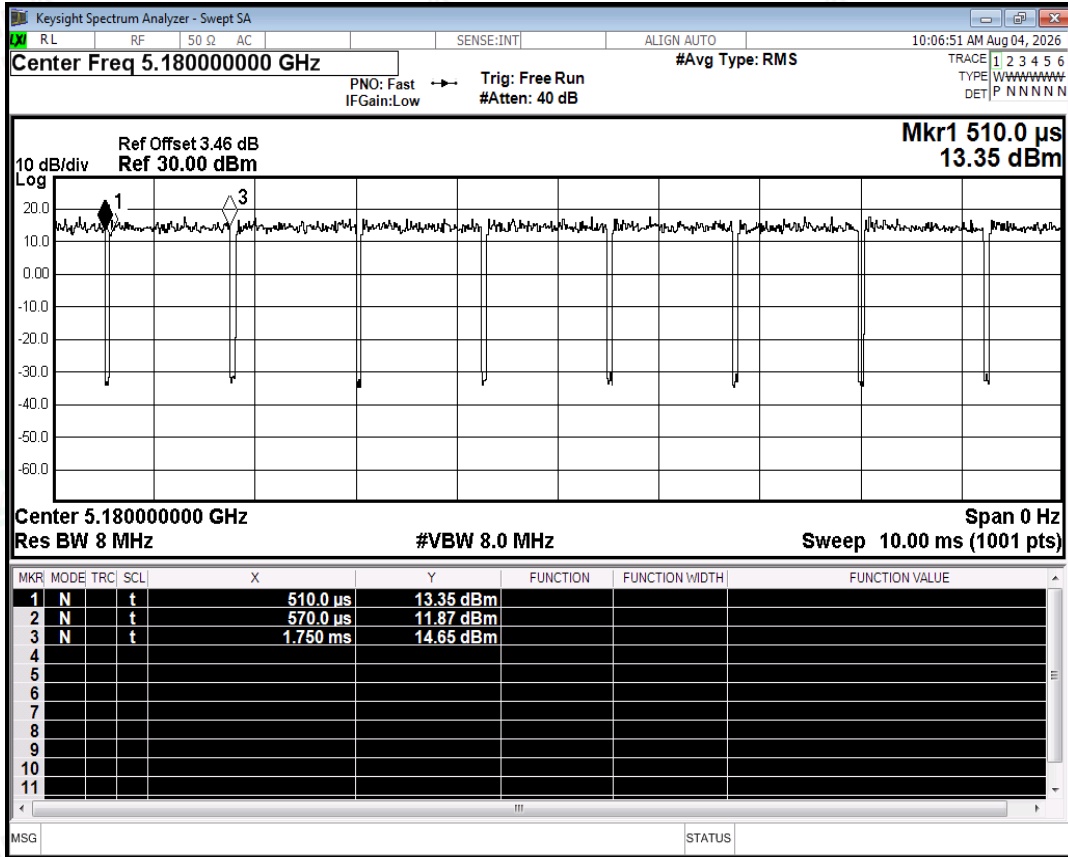
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	95.89	0.18	0.71
NVNT	a	5200	Ant1	95.21	0.21	0.72
NVNT	a	5240	Ant1	95.89	0.18	0.71
NVNT	n20	5180	Ant1	95.16	0.22	0.85
NVNT	n20	5200	Ant1	94.4	0.25	0.85
NVNT	n20	5240	Ant1	94.4	0.25	0.85
NVNT	n40	5190	Ant1	90.77	0.42	1.69
NVNT	n40	5230	Ant1	89.23	0.49	1.72
NVNT	ac20	5180	Ant1	95.2	0.21	0.84
NVNT	ac20	5200	Ant1	95.2	0.21	0.84
NVNT	ac20	5240	Ant1	94.4	0.25	0.85
NVNT	ac40	5190	Ant1	90.91	0.41	1.67
NVNT	ac40	5230	Ant1	89.39	0.49	1.69
NVNT	ac80	5210	Ant1	80.56	0.94	3.45
NVNT	ac160	5250	Ant1	75	1.25	5.56



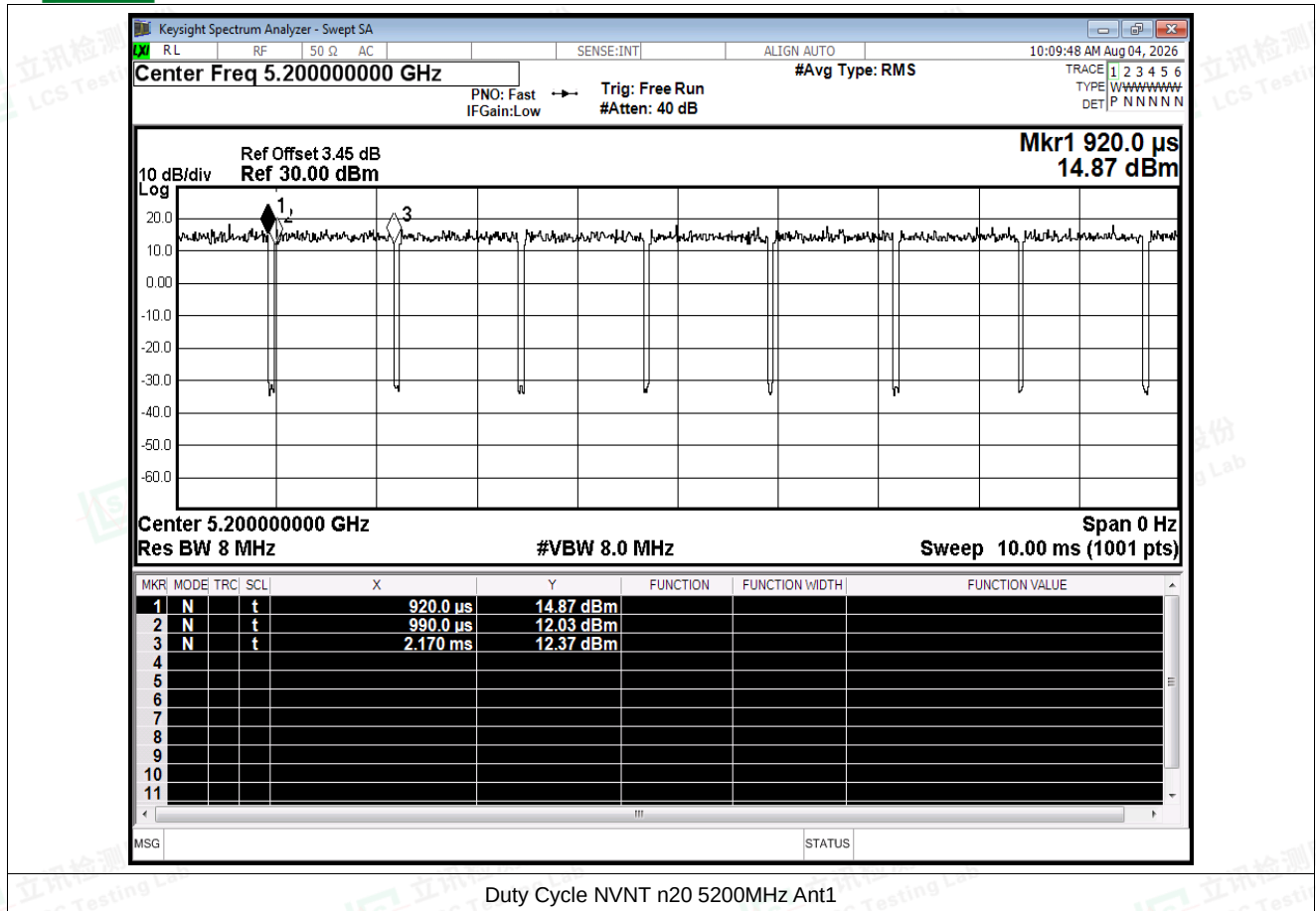
Duty Cycle NVNT a 5180MHz Ant1

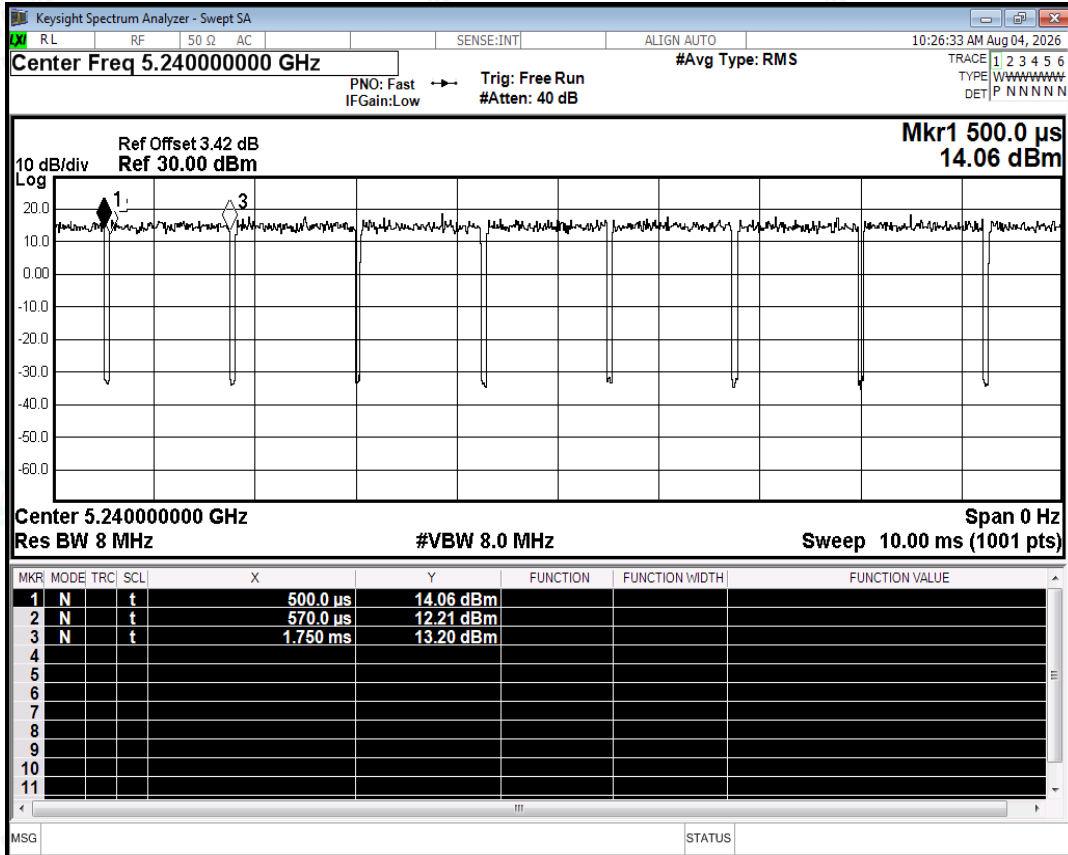




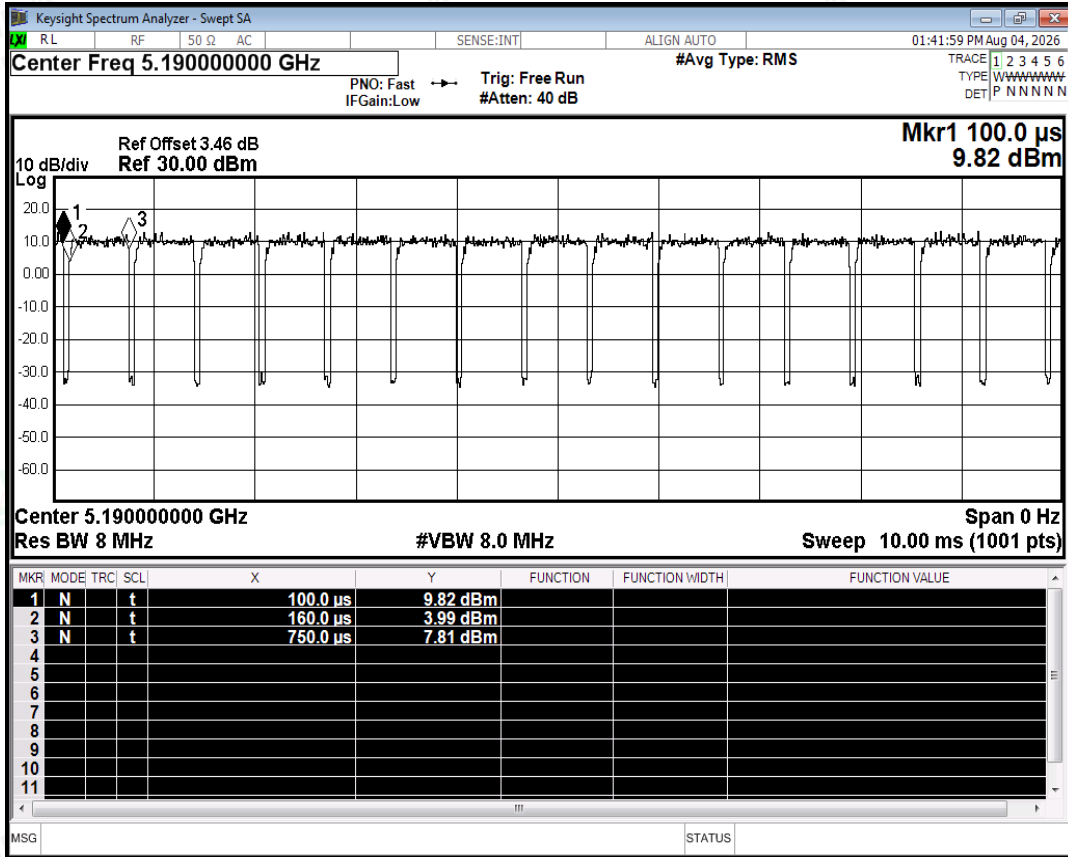


Duty Cycle NVNT n20 5180MHz Ant1

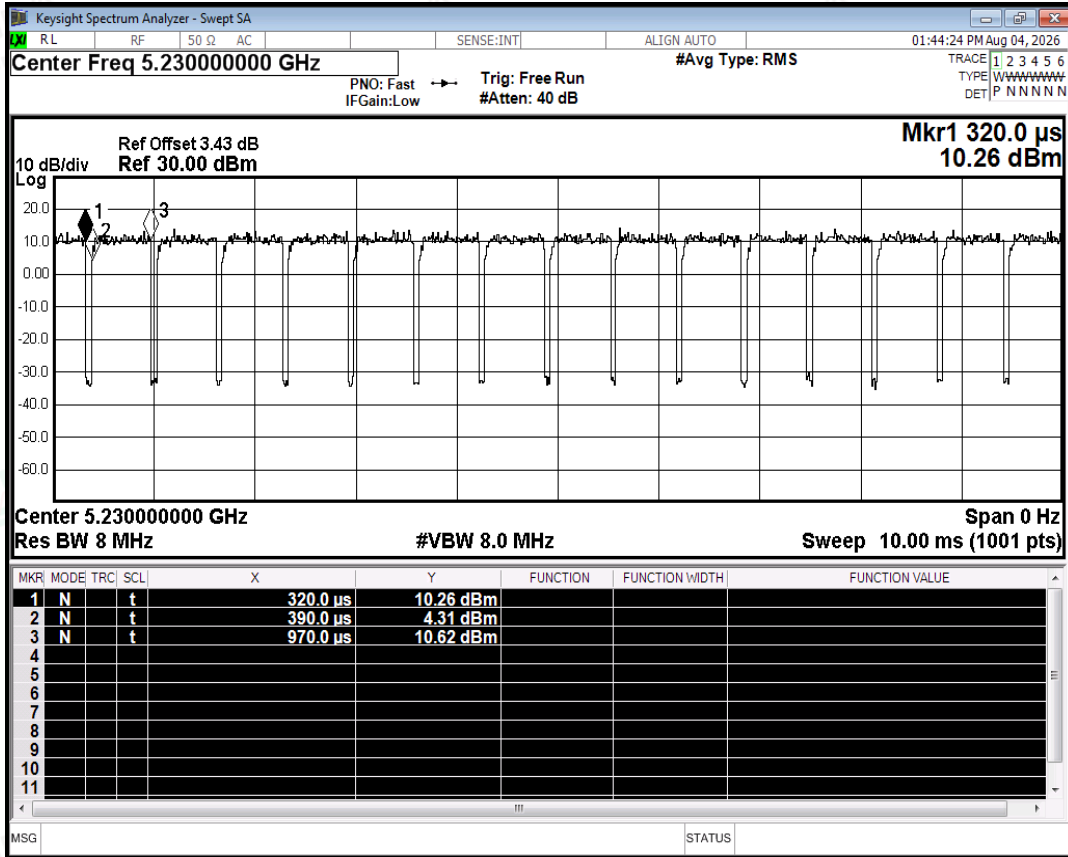




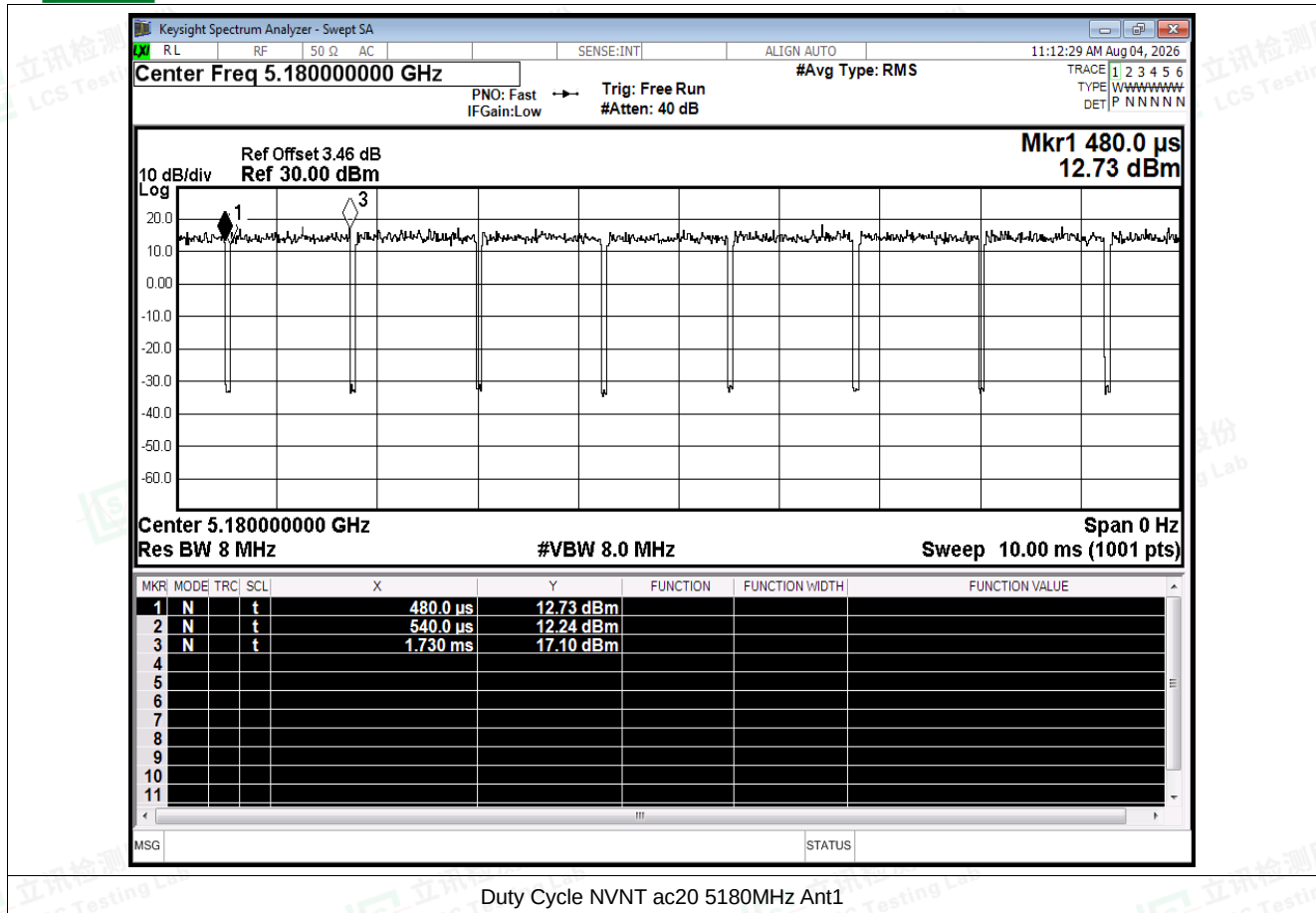
Duty Cycle NVNT n20 5240MHz Ant1

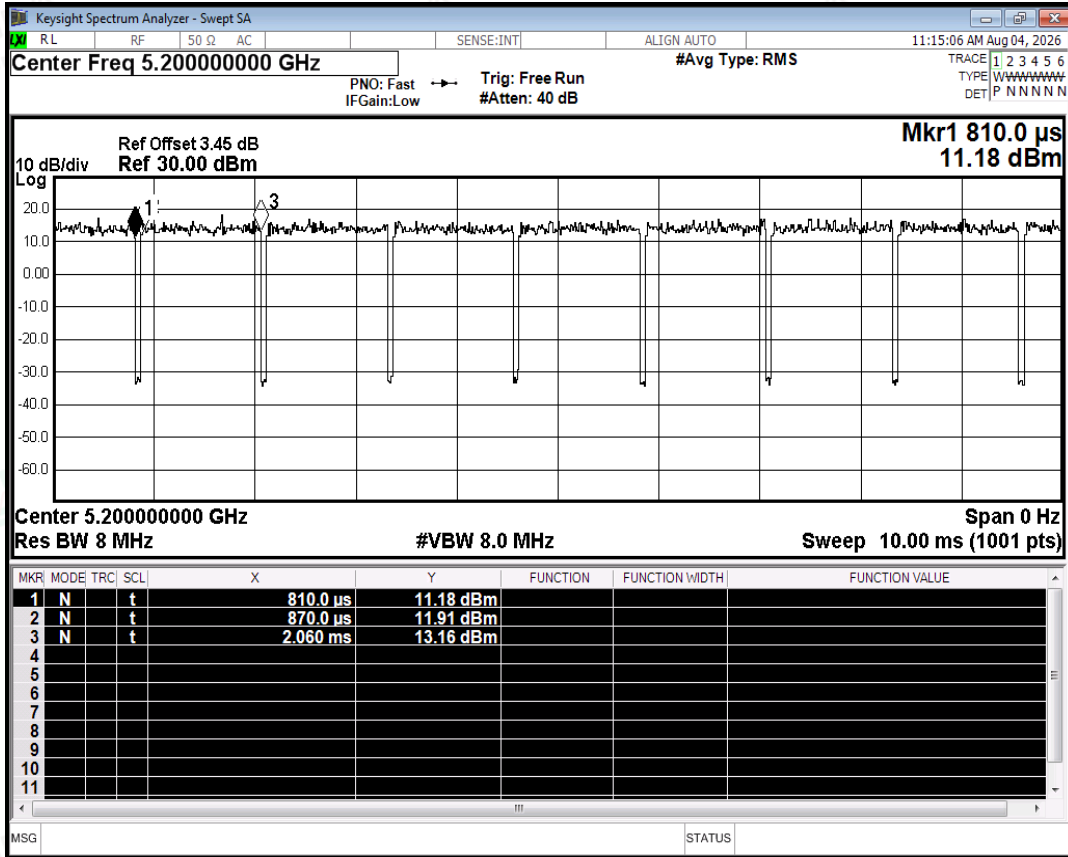


Duty Cycle NVNT n40 5190MHz Ant1

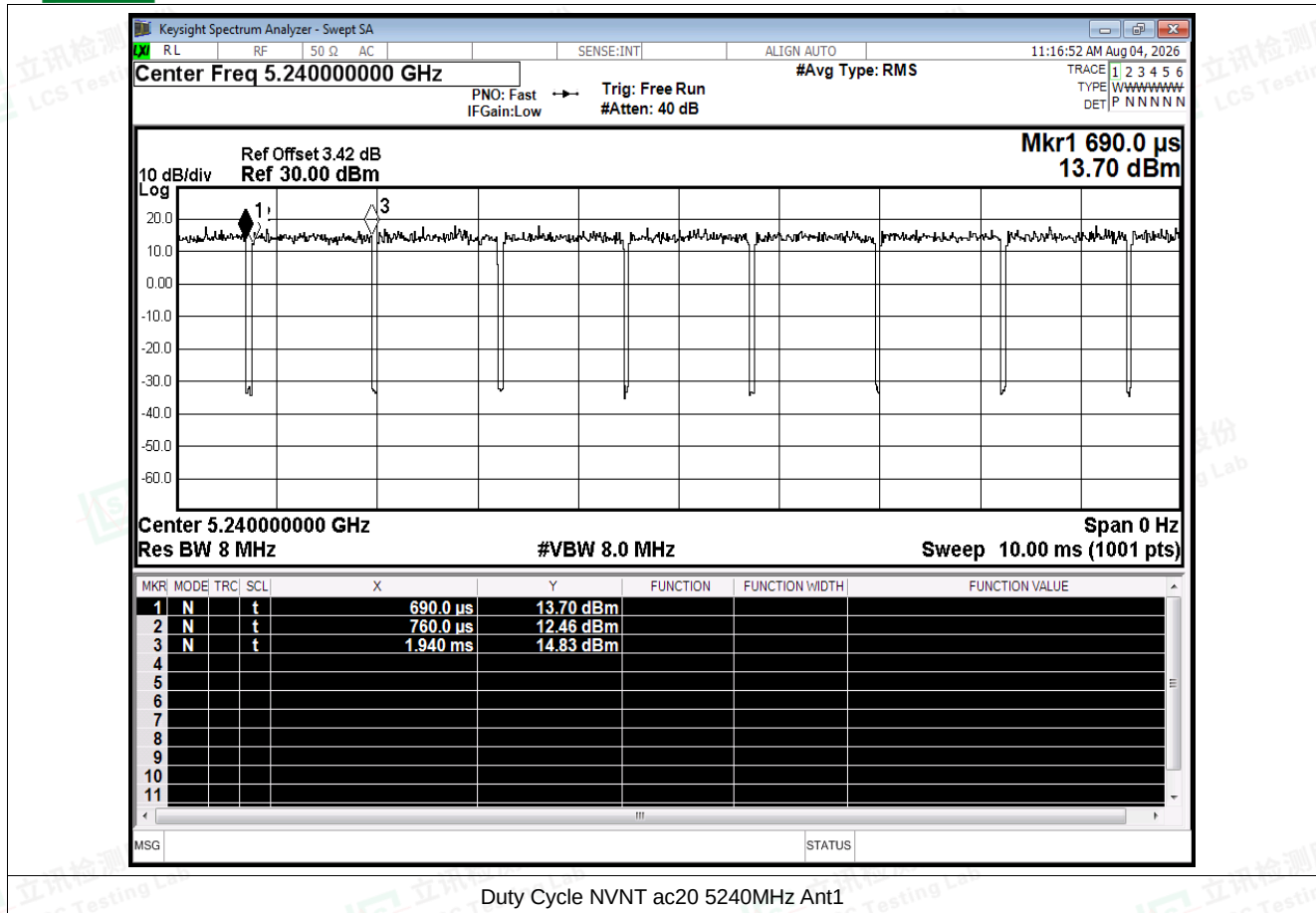


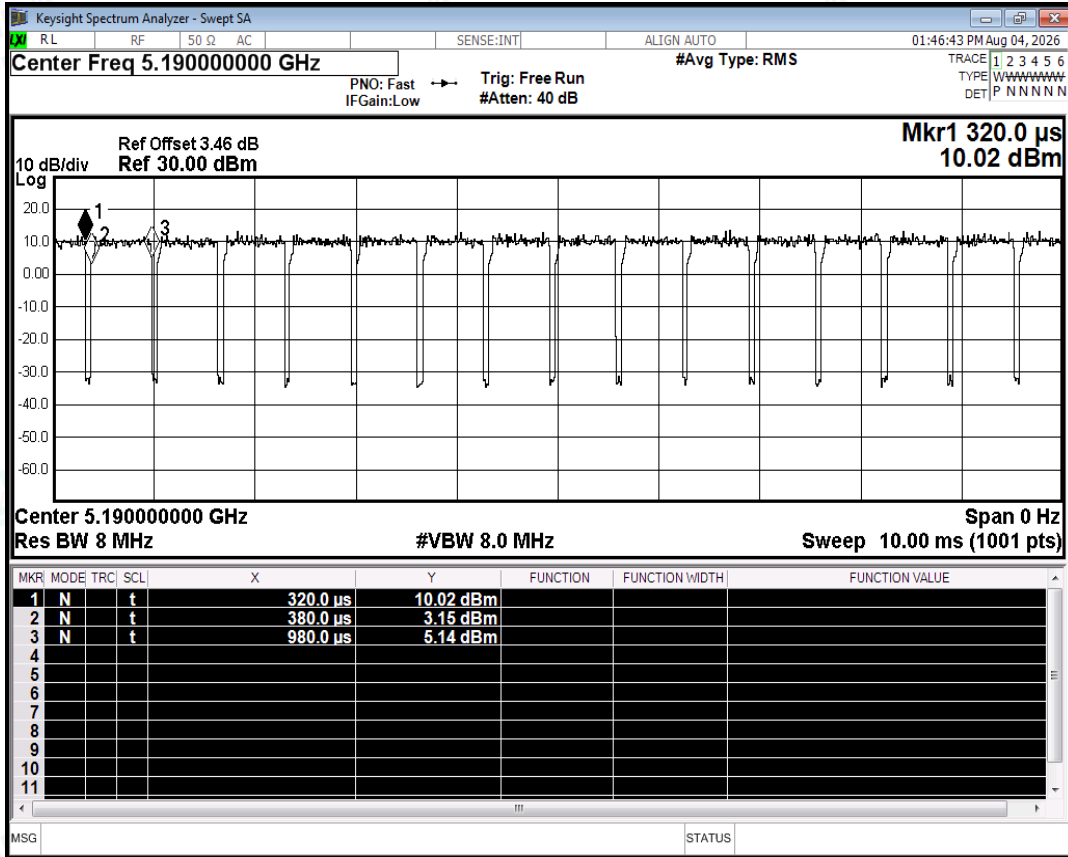
Duty Cycle NVNT n40 5230MHz Ant1



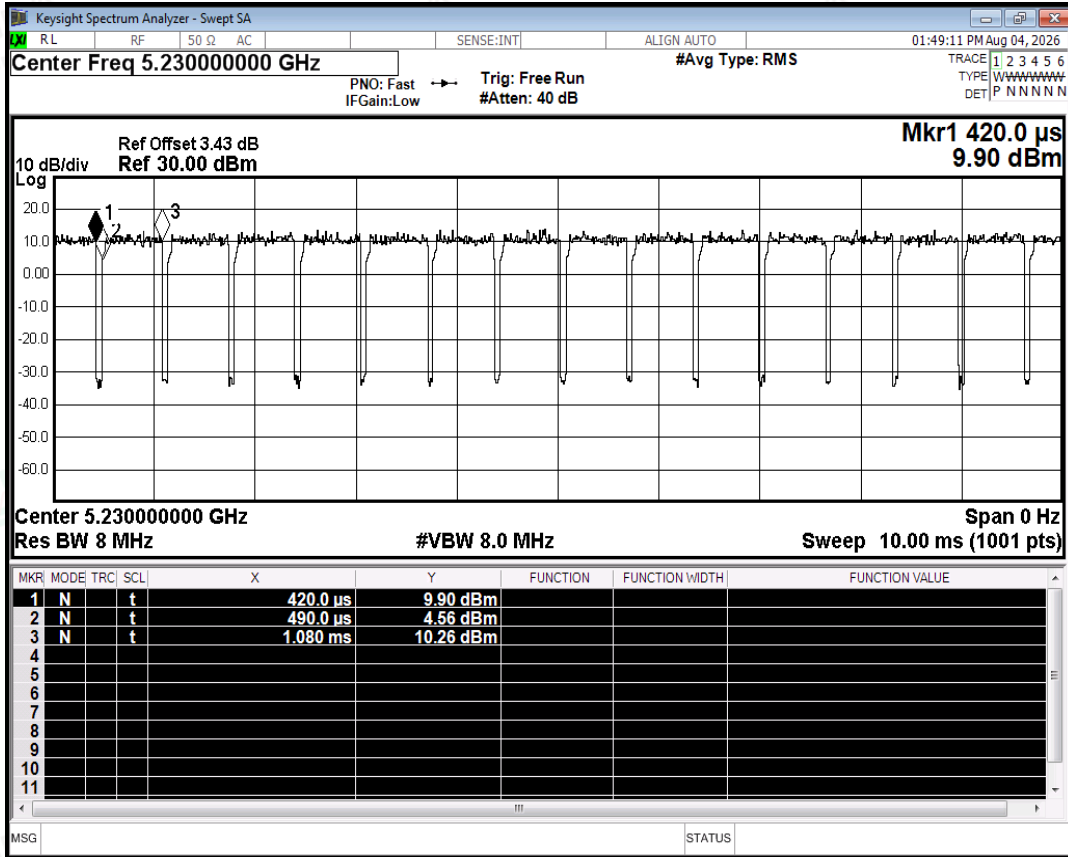


Duty Cycle NVNT ac20 5200MHz Ant1

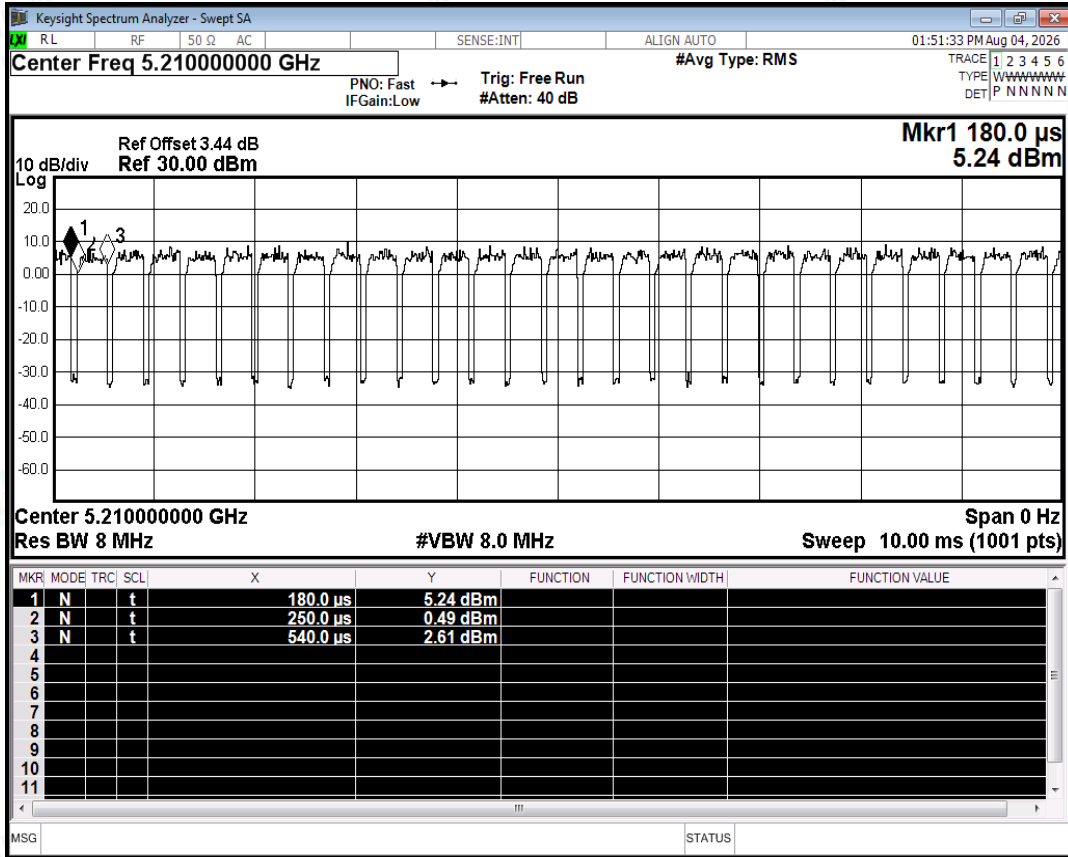




Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1

