



Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: NETWORK PLAYER

Test Model: 9000N

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





B.1 -26dB Bandwidth

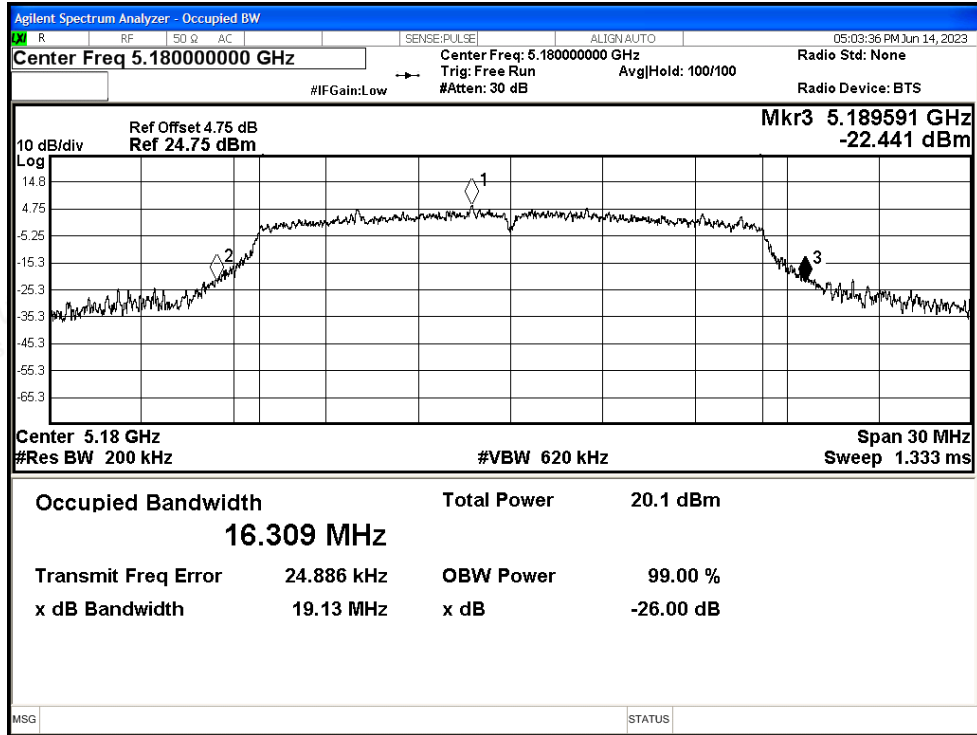
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.132	N/A	Pass
NVNT	a	5200	Ant1	19.037	N/A	Pass
NVNT	a	5240	Ant1	19.662	N/A	Pass
NVNT	n20	5180	Ant1	19.408	N/A	Pass
NVNT	n20	5200	Ant1	19.994	N/A	Pass
NVNT	n20	5240	Ant1	19.425	N/A	Pass
NVNT	n40	5190	Ant1	39.244	N/A	Pass
NVNT	n40	5230	Ant1	40.122	N/A	Pass
NVNT	ac20	5180	Ant1	19.821	N/A	Pass
NVNT	ac20	5200	Ant1	19.855	N/A	Pass
NVNT	ac20	5240	Ant1	19.388	N/A	Pass
NVNT	ac40	5190	Ant1	38.937	N/A	Pass
NVNT	ac40	5230	Ant1	39.883	N/A	Pass
NVNT	ac80	5210	Ant1	79.575	N/A	Pass



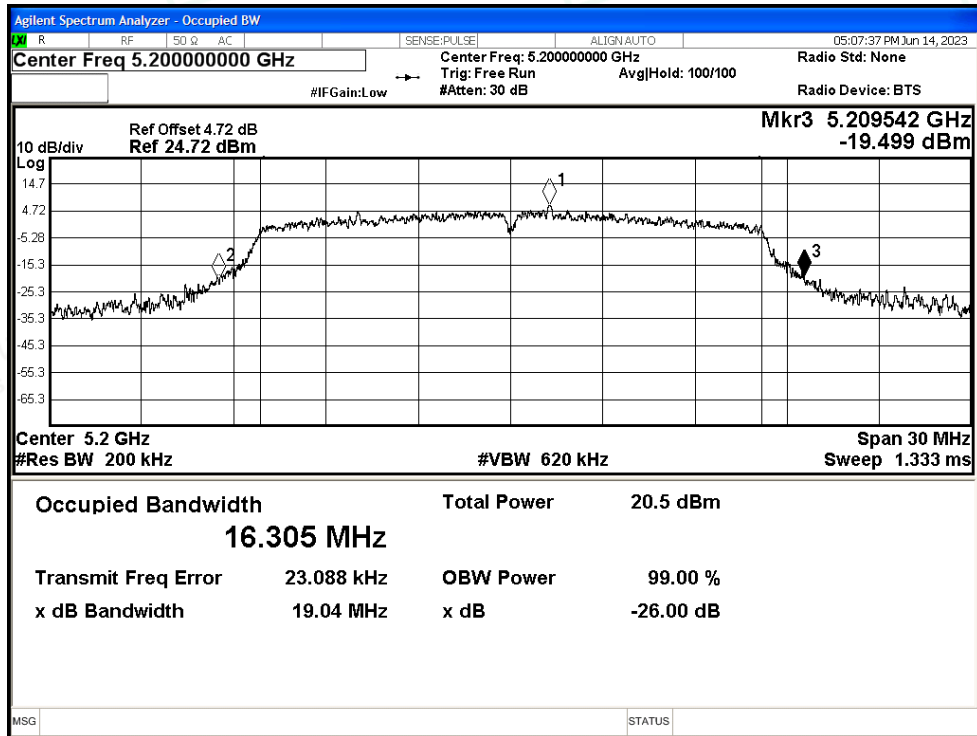


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

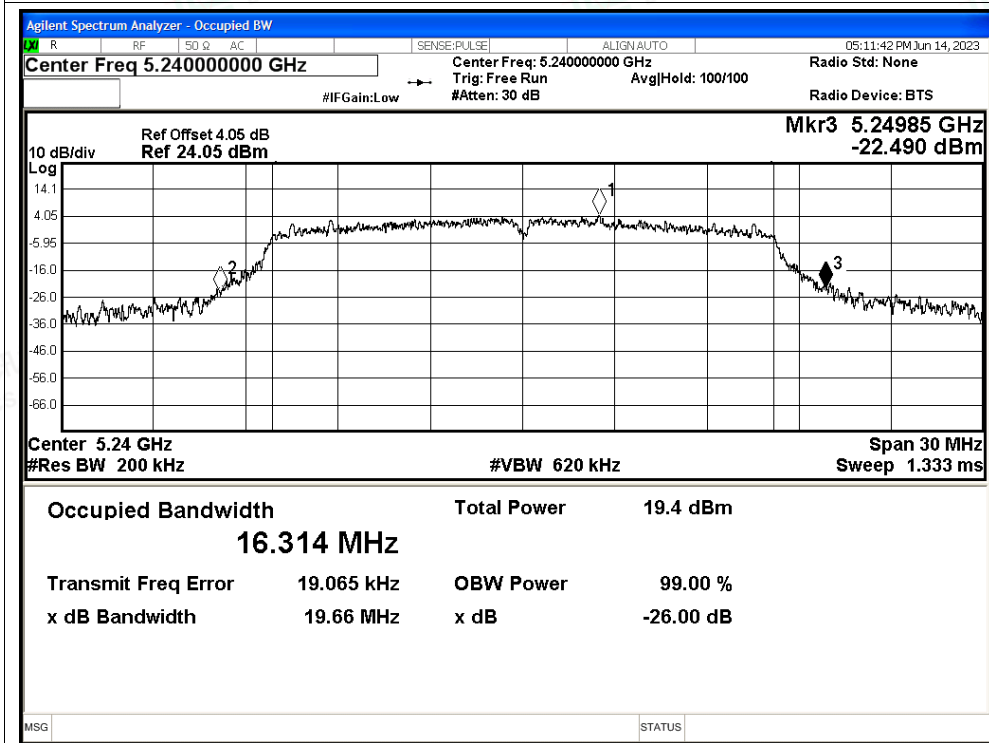


-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1

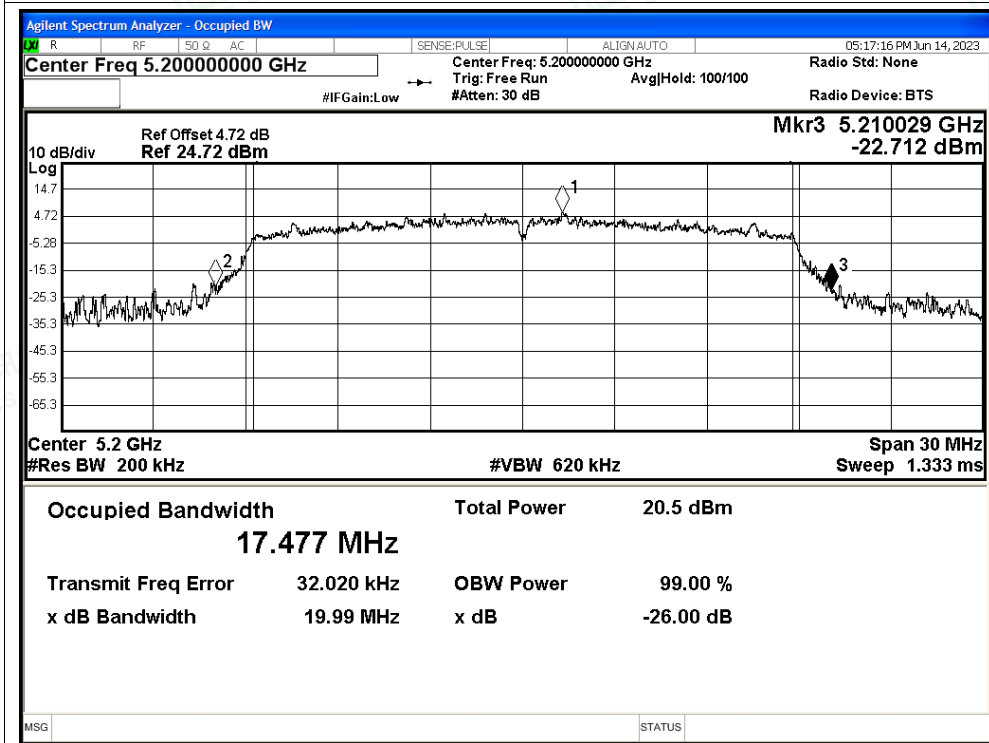


-26dB Bandwidth NVNT n20 5180MHz Ant1

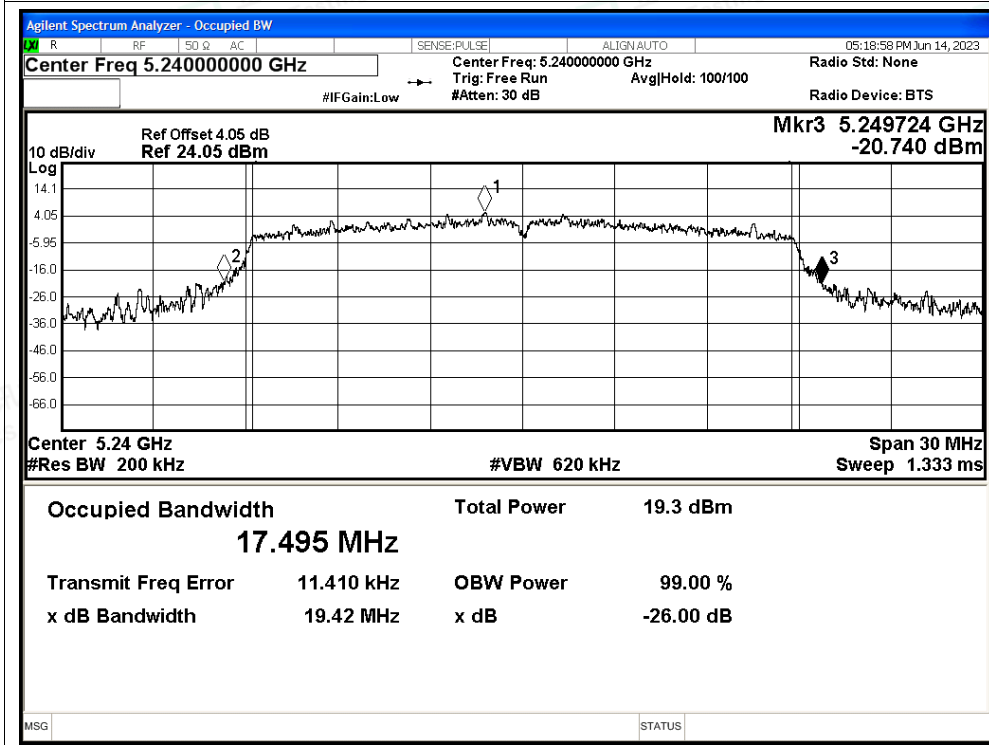




-26dB Bandwidth NVNT n20 5200MHz Ant1

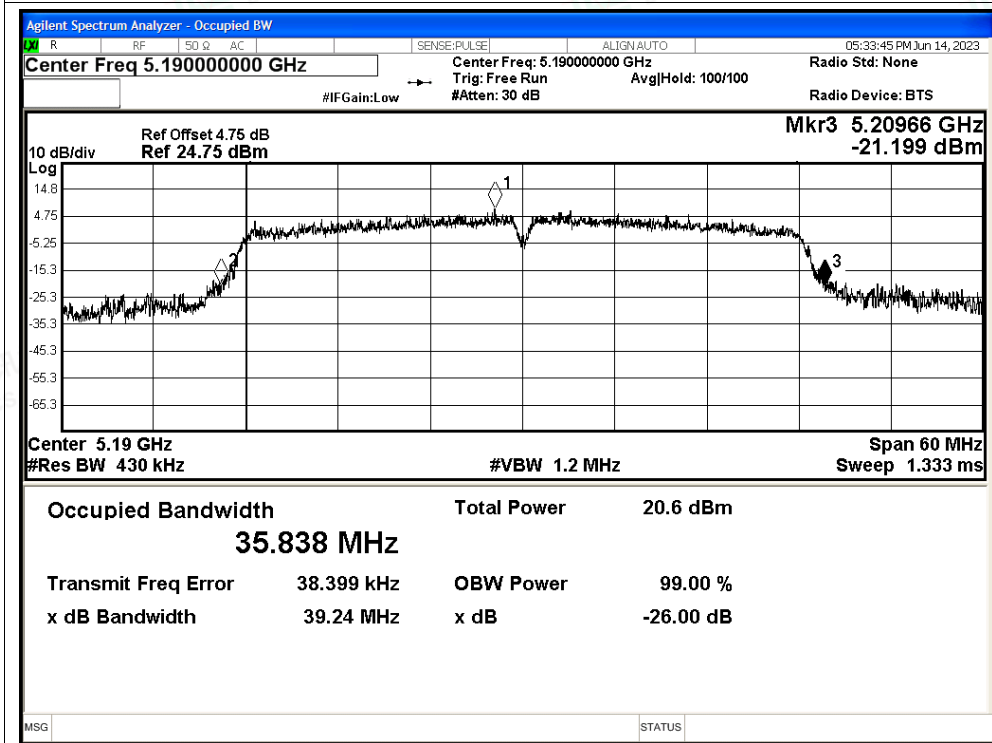


-26dB Bandwidth NVNT n20 5240MHz Ant1

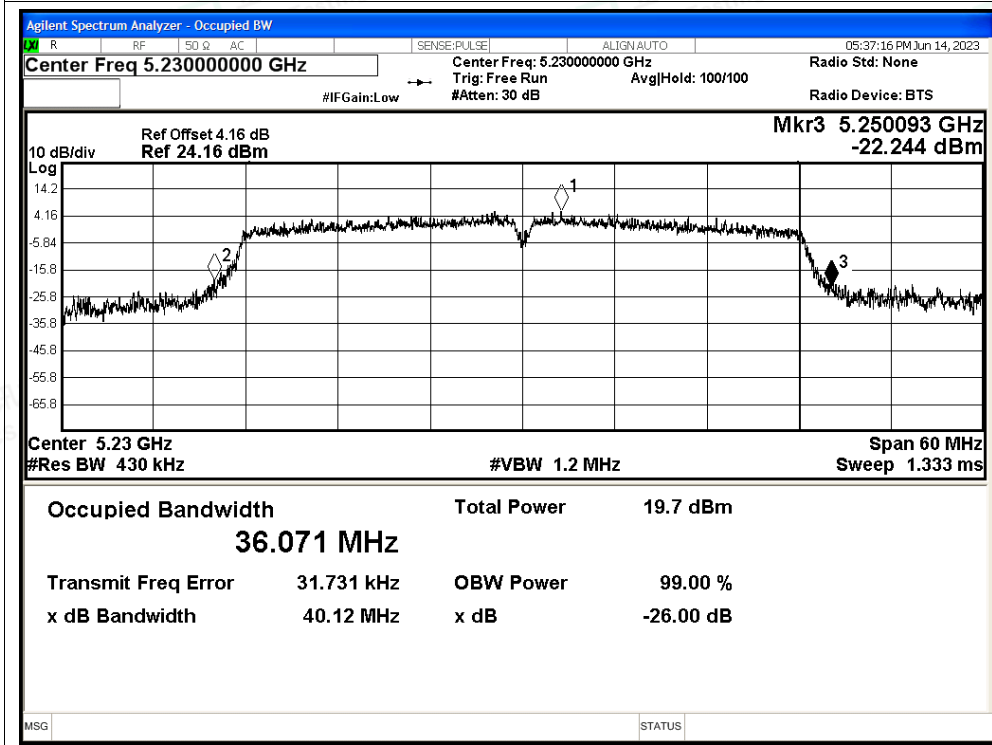




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

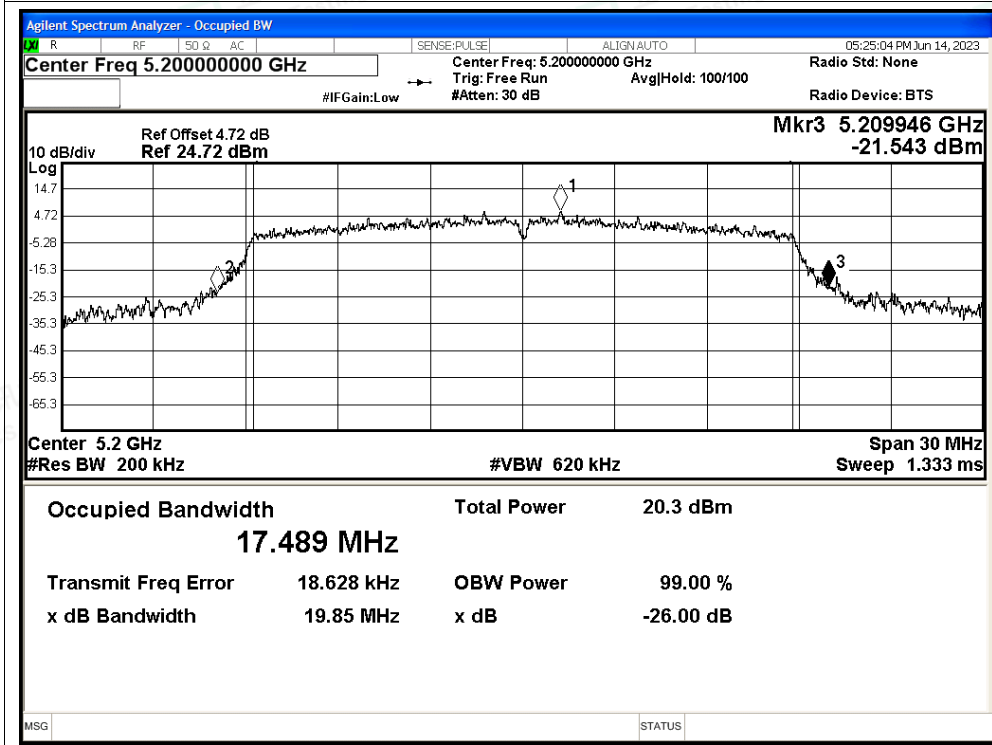




-26dB Bandwidth NVNT ac20 5180MHz Ant1

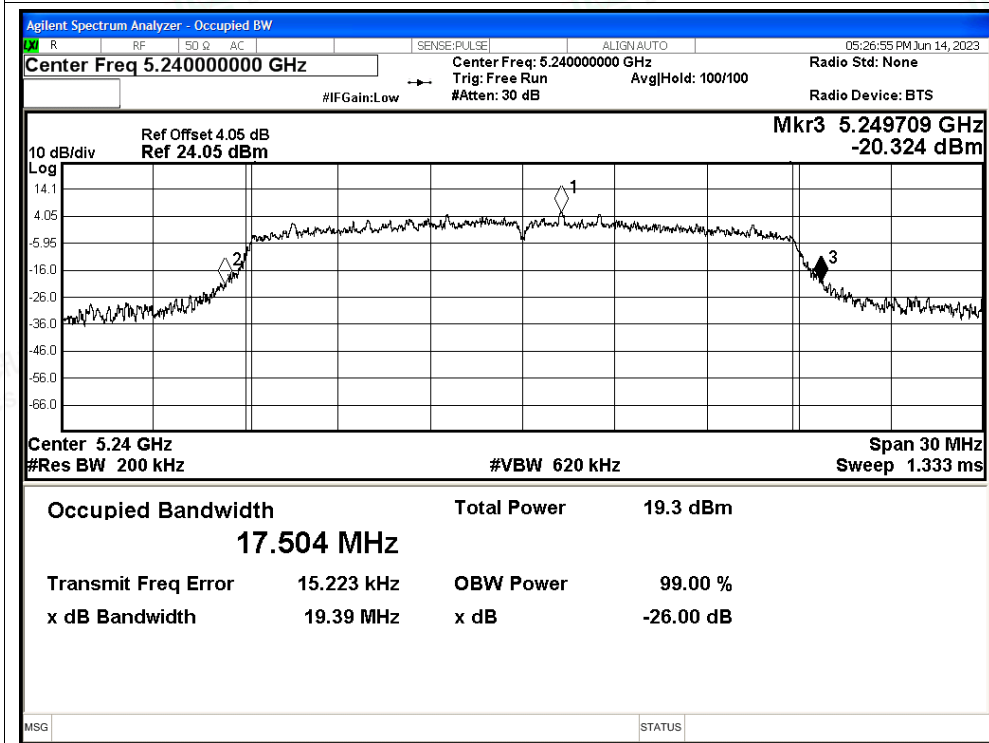


-26dB Bandwidth NVNT ac20 5200MHz Ant1

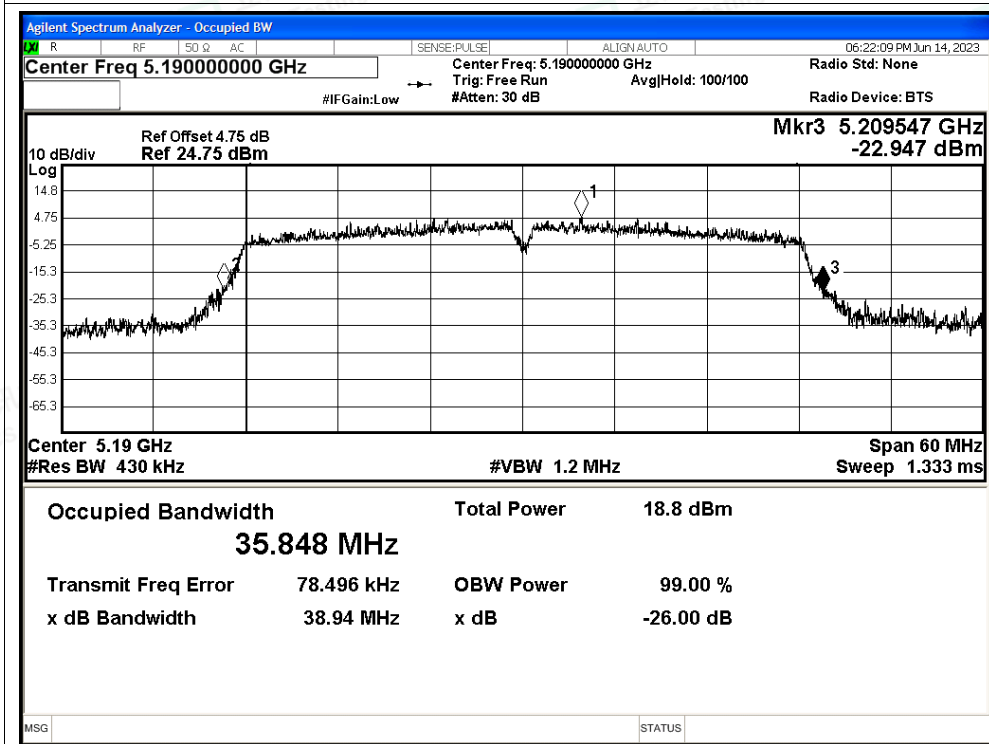




-26dB Bandwidth NVNT ac20 5240MHz Ant1

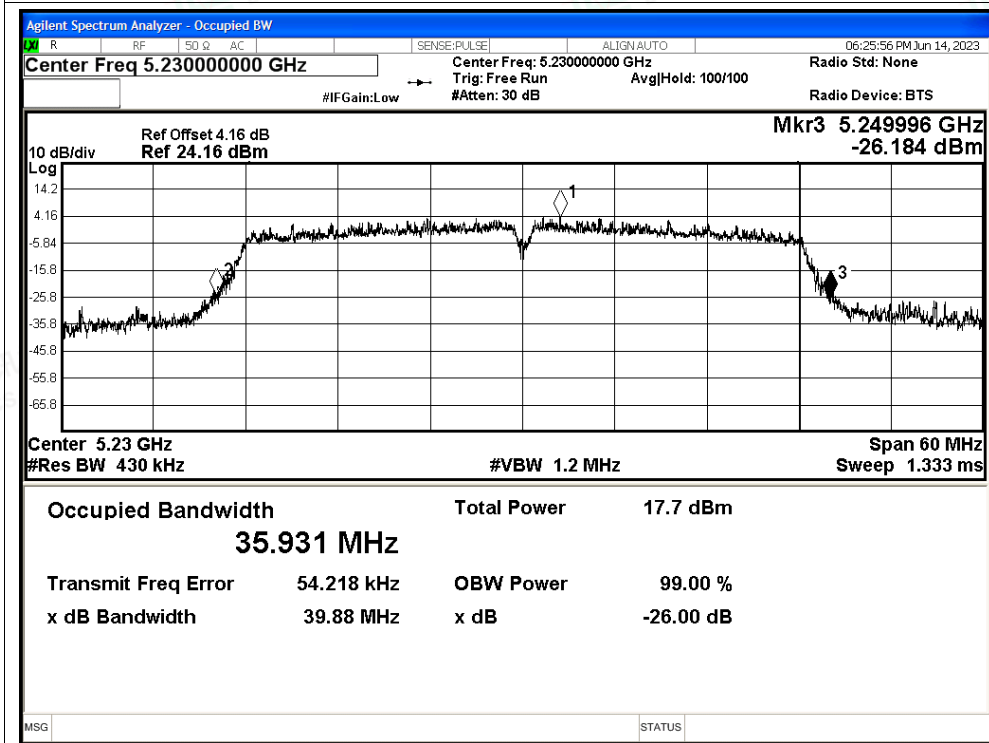


-26dB Bandwidth NVNT ac40 5190MHz Ant1

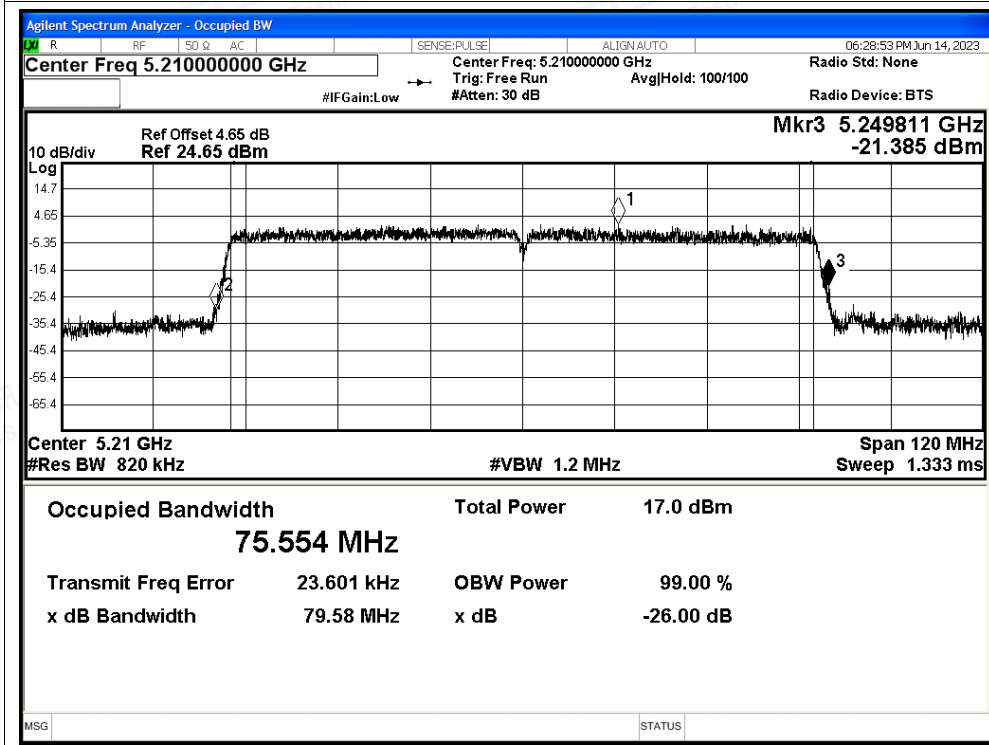




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.94	2.43	13.37	24	Pass
NVNT	a	5200	Ant1	11.01	2.31	13.32	24	Pass
NVNT	a	5240	Ant1	10.07	2.35	12.42	24	Pass
NVNT	n20	5180	Ant1	10.74	2.44	13.18	24	Pass
NVNT	n20	5200	Ant1	10.66	2.49	13.15	24	Pass
NVNT	n20	5240	Ant1	10.33	2.46	12.79	24	Pass
NVNT	n40	5190	Ant1	9.32	4.41	13.73	24	Pass
NVNT	n40	5230	Ant1	8.75	4.05	12.80	24	Pass
NVNT	ac20	5180	Ant1	10.33	2.59	12.92	24	Pass
NVNT	ac20	5200	Ant1	10.8	2.54	13.34	24	Pass
NVNT	ac20	5240	Ant1	10.51	2.46	12.97	24	Pass
NVNT	ac40	5190	Ant1	8.53	4.03	12.56	24	Pass
NVNT	ac40	5230	Ant1	8.54	4.1	12.64	24	Pass
NVNT	ac80	5210	Ant1	5.69	6.03	11.72	24	Pass





B.3 Maximum Power Spectral Density and EIRP Spectral Density Level

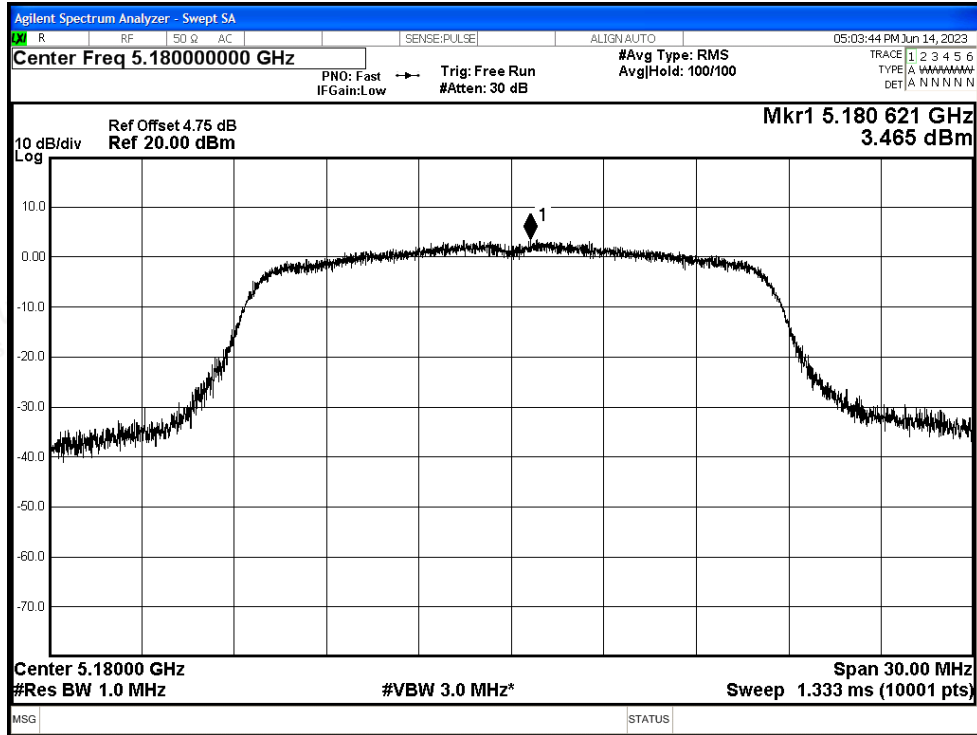
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	3.47	2.43	5.9	11	Pass
NVNT	a	5200	Ant1	4.2	2.31	6.51	11	Pass
NVNT	a	5240	Ant1	3.2	2.35	5.55	11	Pass
NVNT	n20	5180	Ant1	3.1	2.44	5.54	11	Pass
NVNT	n20	5200	Ant1	4.55	2.49	7.04	11	Pass
NVNT	n20	5240	Ant1	2.92	2.46	5.38	11	Pass
NVNT	n40	5190	Ant1	-0.45	4.41	3.96	11	Pass
NVNT	n40	5230	Ant1	-1.26	4.05	2.79	11	Pass
NVNT	ac20	5180	Ant1	3.57	2.59	6.16	11	Pass
NVNT	ac20	5200	Ant1	2.72	2.54	5.26	11	Pass
NVNT	ac20	5240	Ant1	2.29	2.46	4.75	11	Pass
NVNT	ac40	5190	Ant1	-2.59	4.03	1.44	11	Pass
NVNT	ac40	5230	Ant1	-3.8	4.1	0.3	11	Pass
NVNT	ac80	5210	Ant1	-10.17	6.03	-4.14	11	Pass



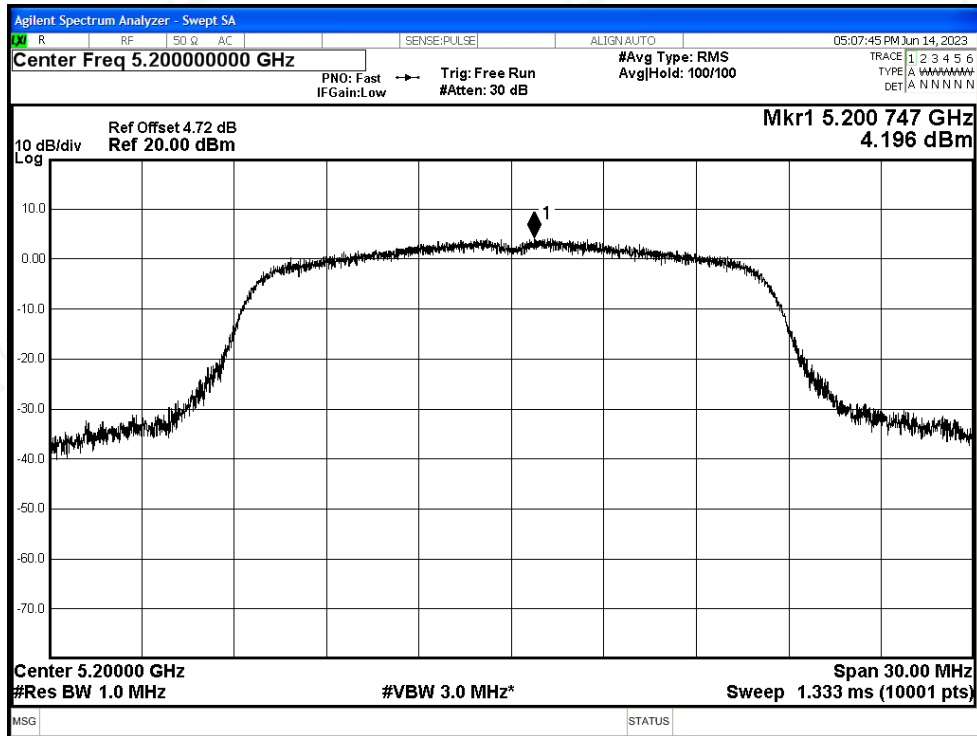


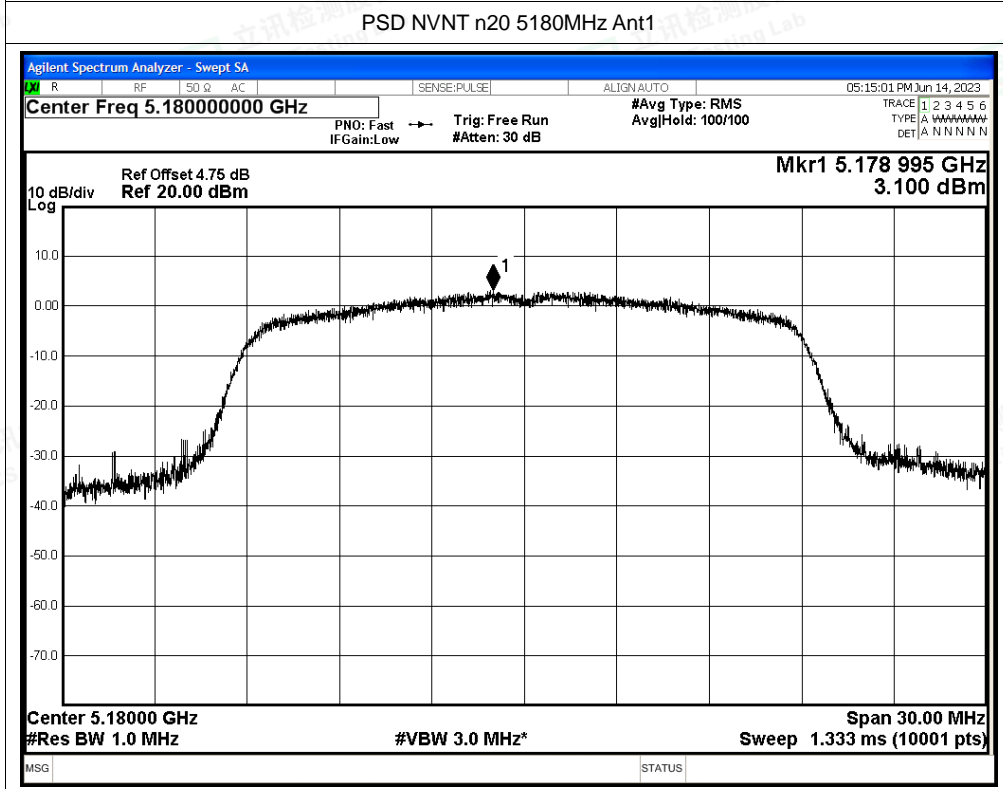
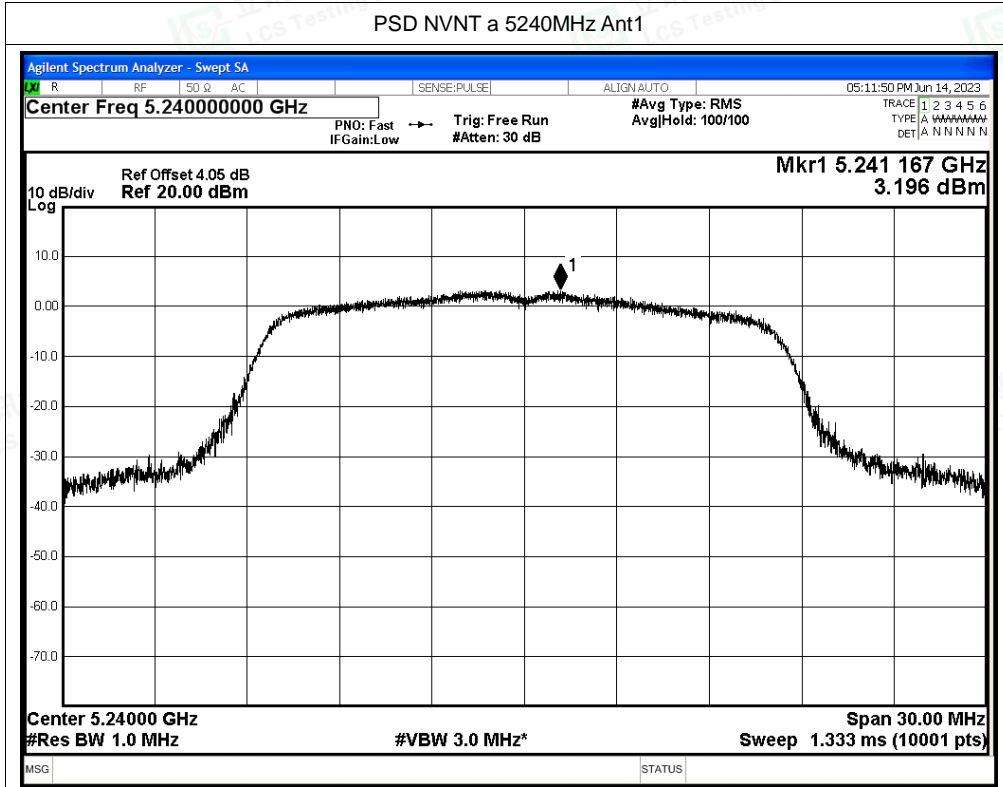
Test Graphs

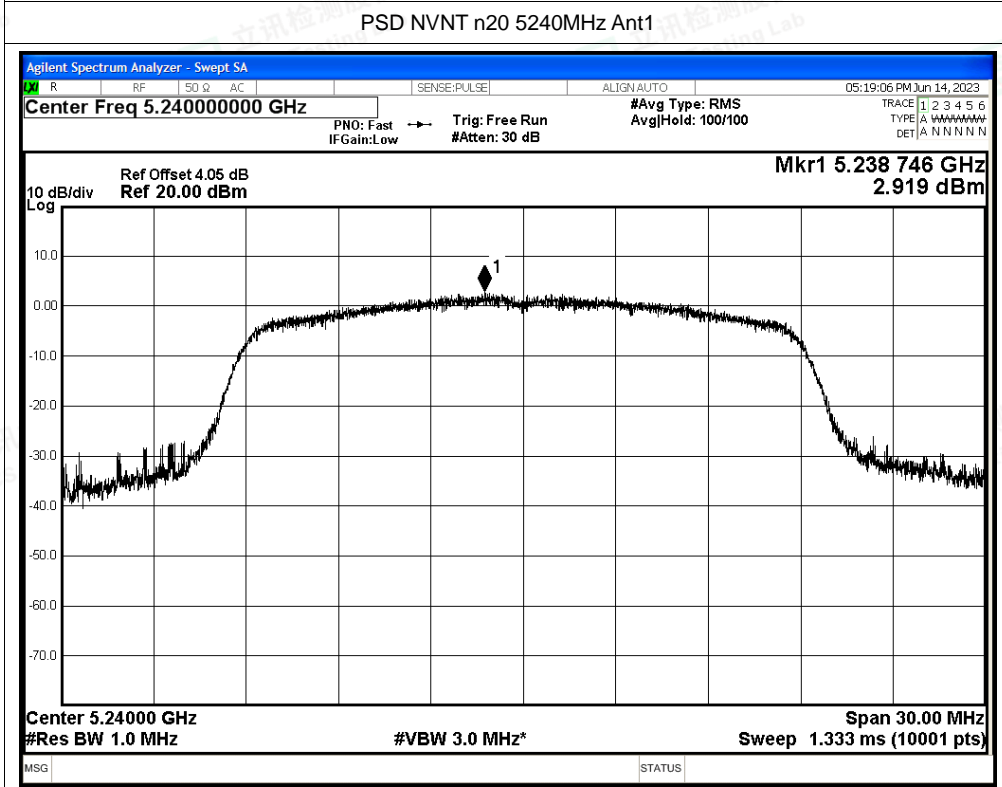
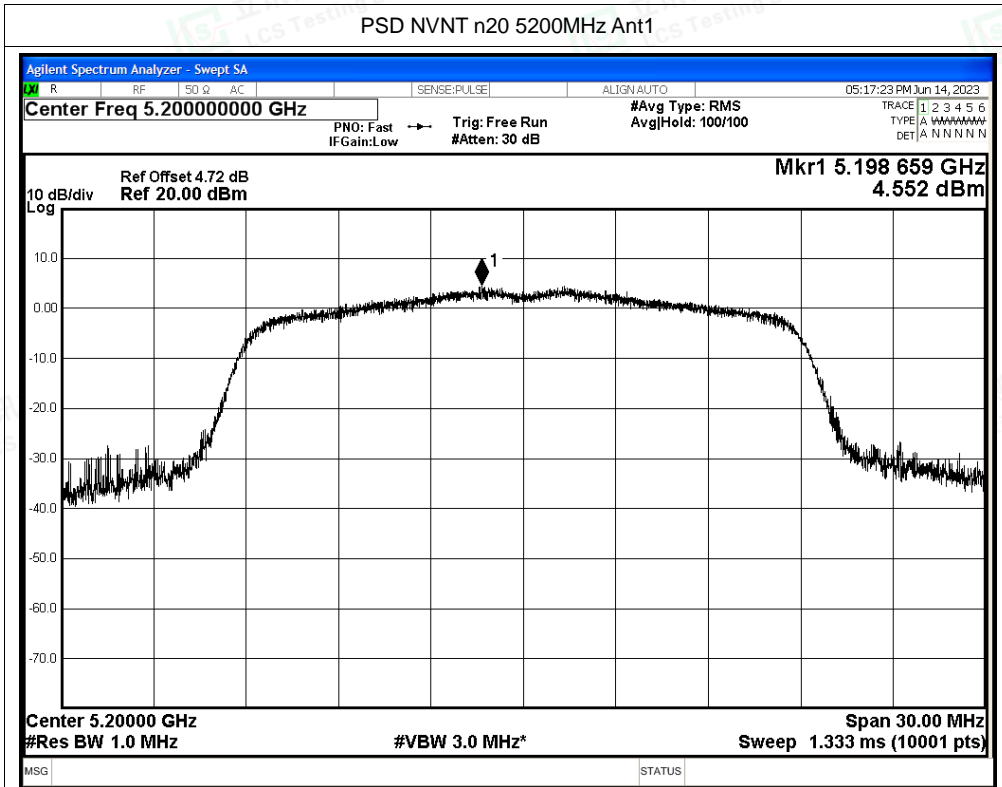
PSD NVNT a 5180MHz Ant1

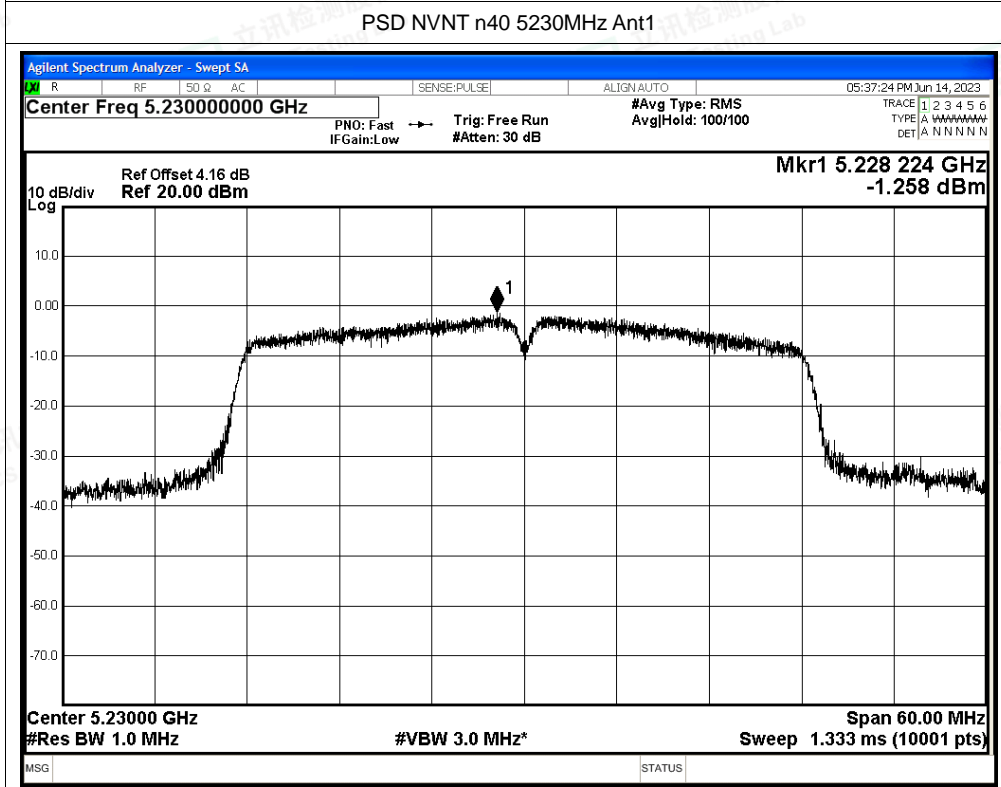
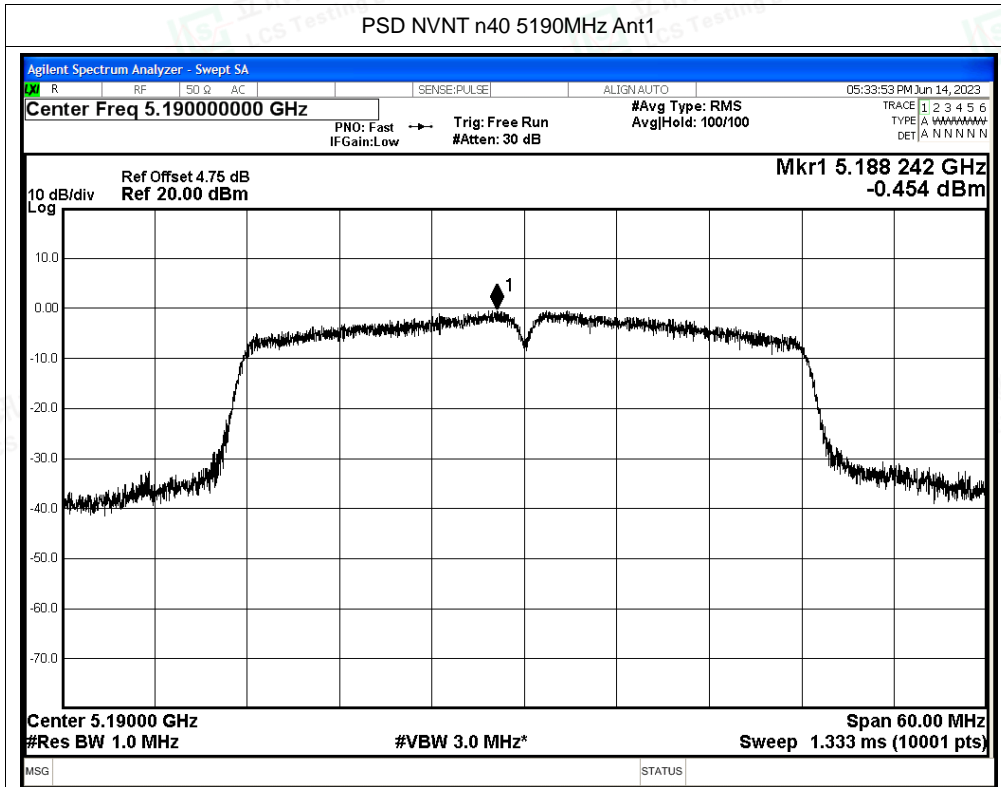


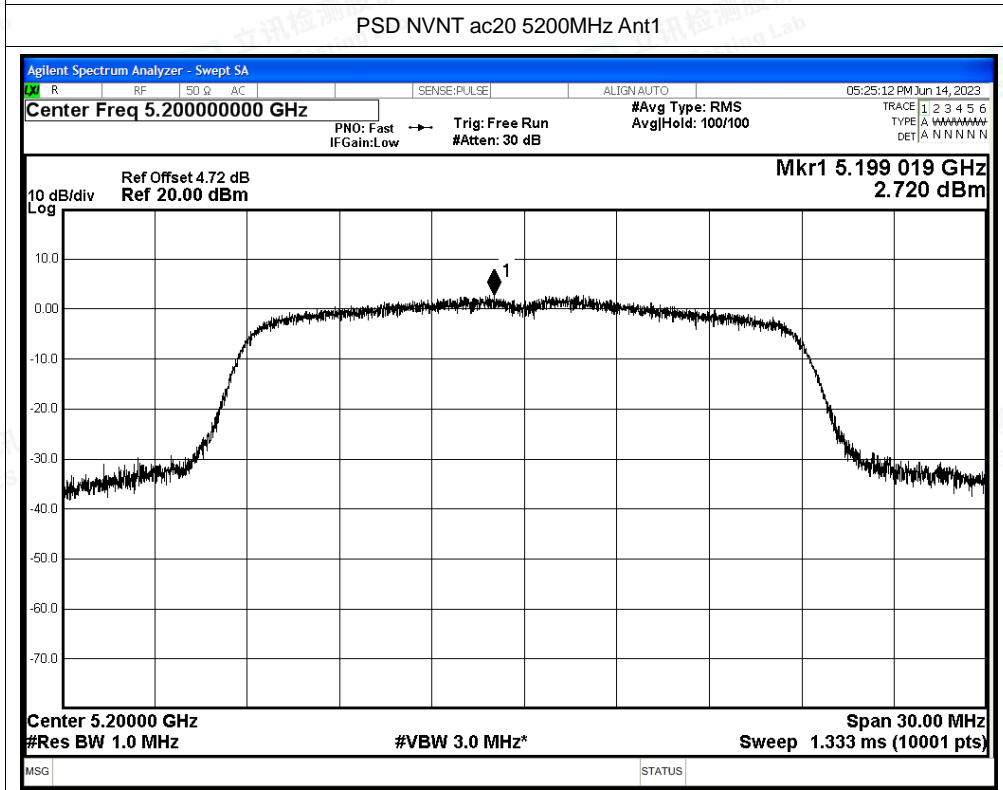
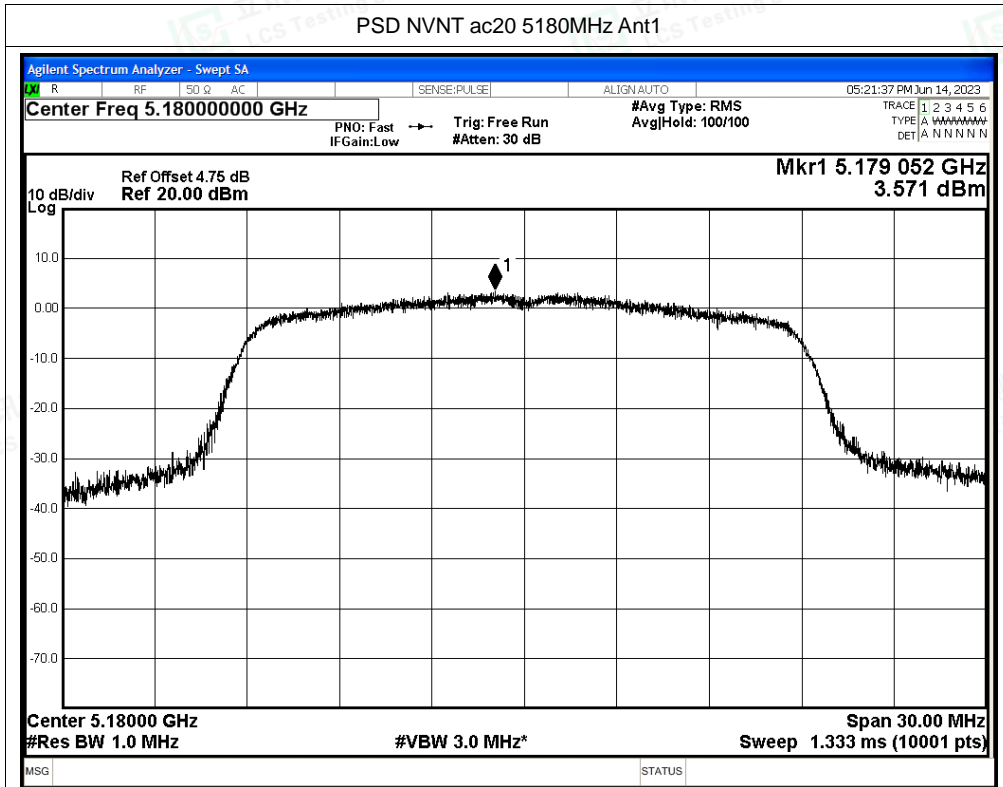
PSD NVNT a 5200MHz Ant1

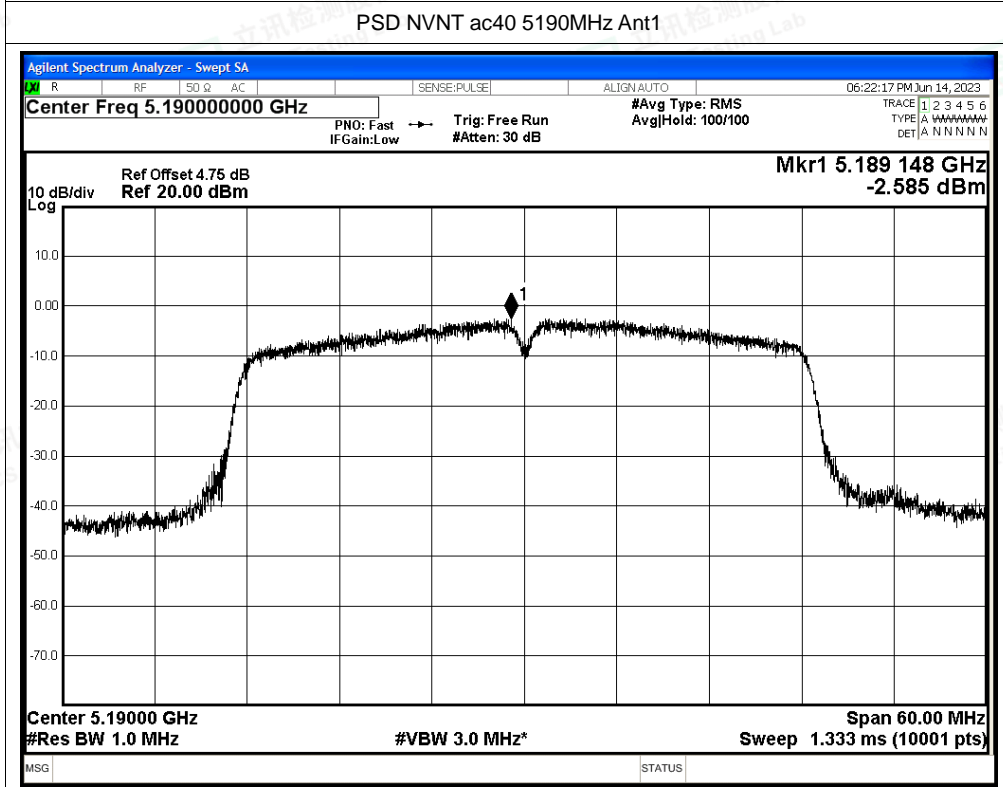
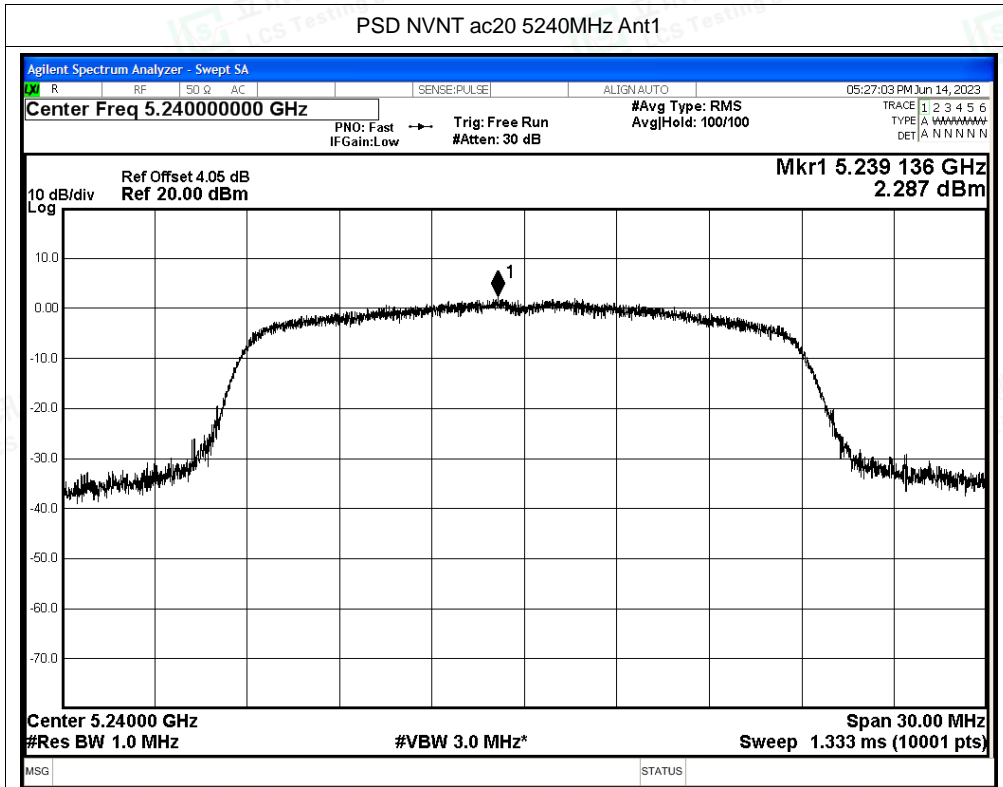


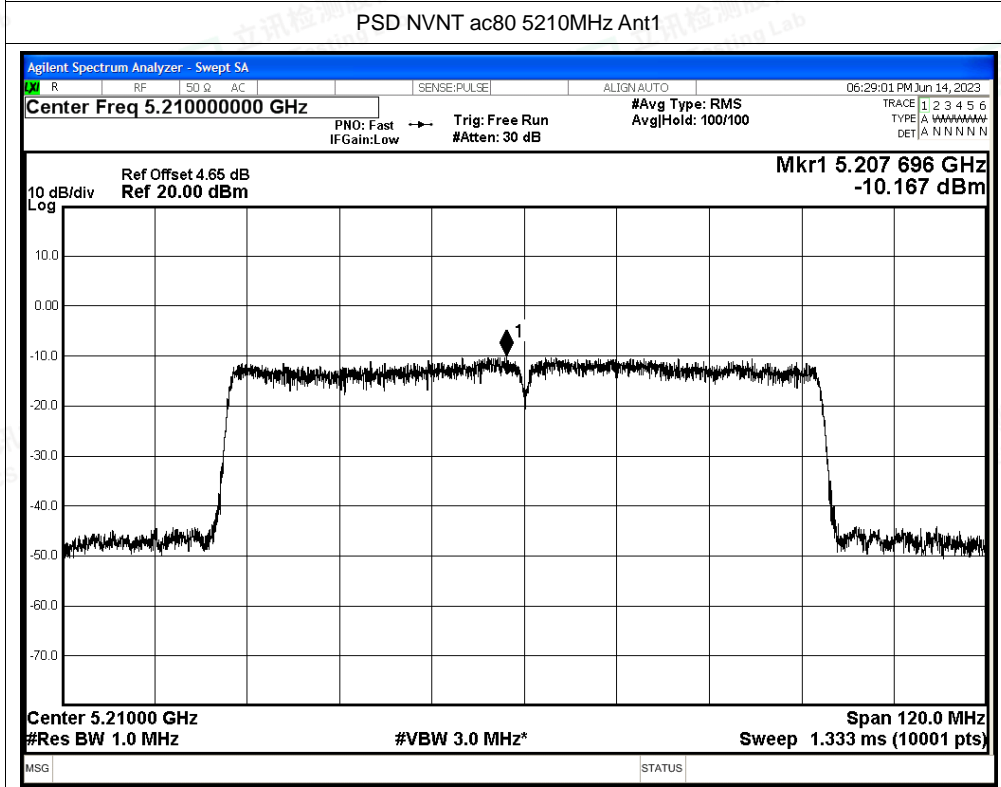
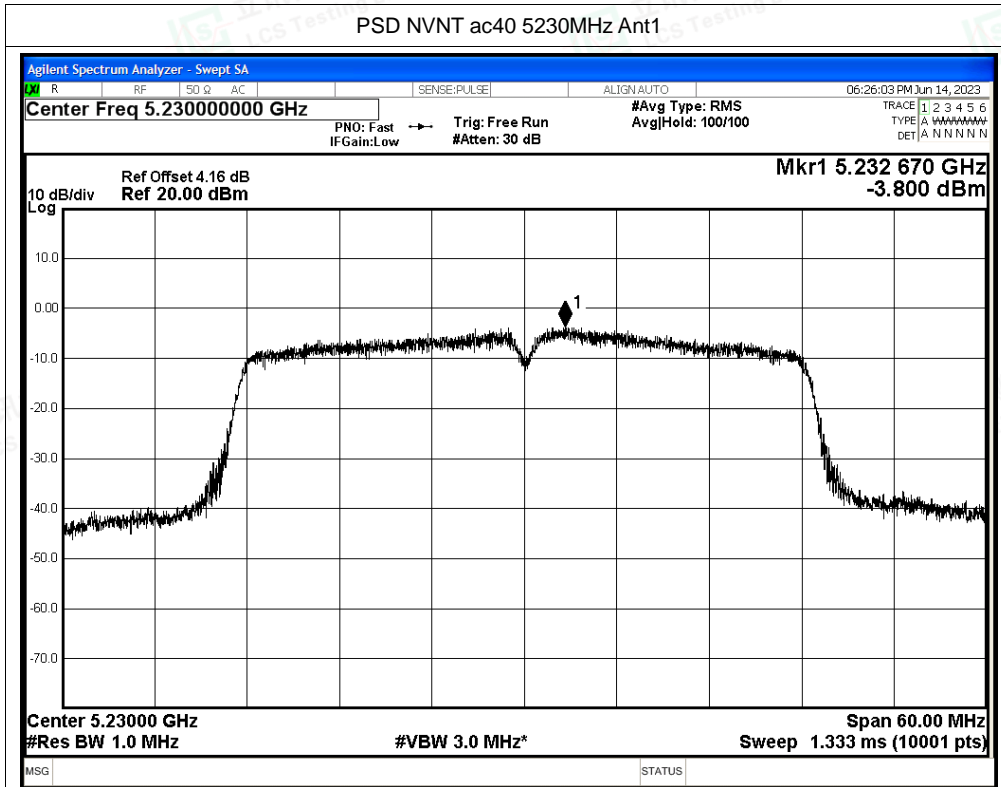














B.4 Restrict Band

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	-49.27	3.71	49.67	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-56.44	3.71	42.50	Average	54	Pass
NVNT	a	5180	Ant1	4605	-44.5	3.71	54.44	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-54.55	3.71	44.39	Average	54	Pass
NVNT	a	5180	Ant1	5150	-48.21	3.71	50.73	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.89	3.71	44.05	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.7	3.71	48.24	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.38	3.71	42.56	Average	54	Pass
NVNT	a	5240	Ant1	5406.72	-46.81	3.71	52.13	Peak	68.2	Pass
NVNT	a	5240	Ant1	5388.96	-56.1	3.71	42.84	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.32	3.71	49.62	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-56.45	3.71	42.49	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-48.8	3.71	50.14	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-56.31	3.71	42.63	Average	54	Pass
NVNT	n20	5180	Ant1	4750.6	-45.33	3.71	53.61	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5064.9	-54.66	3.71	44.28	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.52	3.71	51.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-54.78	3.71	44.16	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.07	3.71	49.87	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.19	3.71	42.75	Average	54	Pass
NVNT	n20	5240	Ant1	5438.88	-46.23	3.71	52.71	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5394.48	-55.99	3.71	42.95	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.55	3.71	50.39	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.36	3.71	42.58	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.4	3.71	49.54	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-56.34	3.71	42.60	Average	54	Pass
NVNT	n40	5190	Ant1	5132.91	-45.46	3.71	53.48	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5115.39	-54.25	3.71	44.69	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-47.54	3.71	51.40	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.74	3.71	44.20	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.72	3.71	50.22	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.17	3.71	42.77	Average	54	Pass
NVNT	n40	5230	Ant1	5396.01	-46.3	3.71	52.64	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5363.88	-55.52	3.71	43.42	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.29	3.71	49.65	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.1	3.71	42.84	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.68	3.71	50.26	Peak	68.2	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
 Scan code to check authenticity



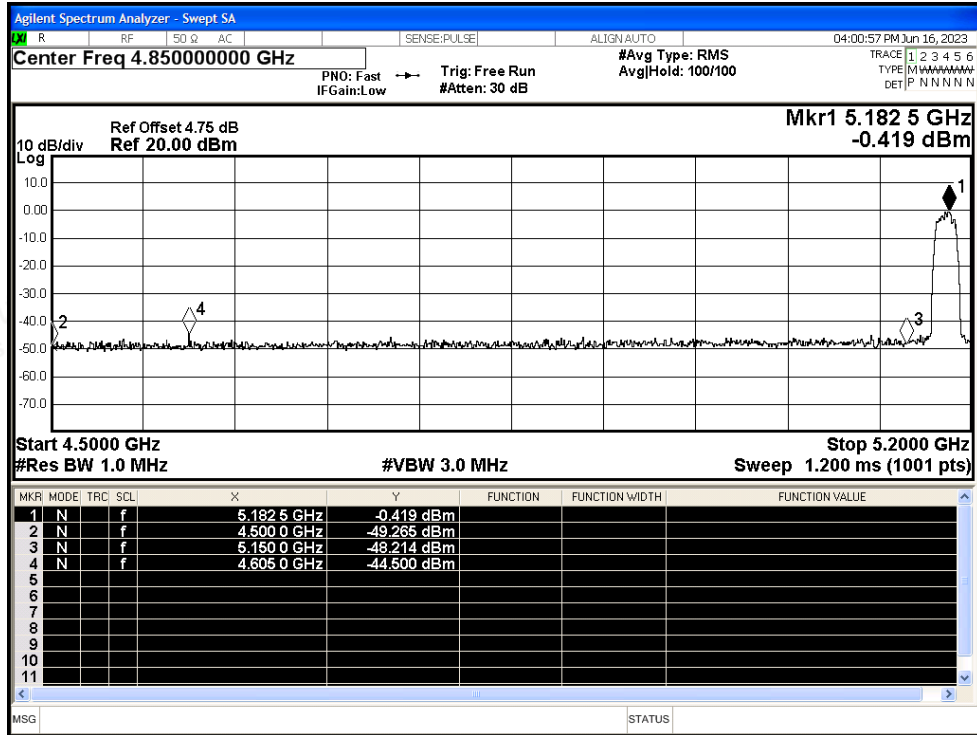
NVNT	ac20	5180	Ant1	4500	-56.53	3.71	42.41	Average	54	Pass
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NVNT	ac20	5180	Ant1	5117.4	-54.61	3.71	44.33	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-47.95	3.71	50.99	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.73	3.71	44.21	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.95	3.71	49.99	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.46	3.71	42.48	Average	54	Pass
NVNT	ac20	5240	Ant1	5385.36	-46.47	3.71	52.47	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5364	-55.93	3.71	43.01	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.2	3.71	48.74	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.46	3.71	42.48	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.79	3.71	49.15	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-56.13	3.71	42.81	Average	54	Pass
NVNT	ac40	5190	Ant1	4961.36	-45.48	3.71	53.46	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5129.99	-54.36	3.71	44.58	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-48.07	3.71	50.87	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.78	3.71	44.16	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.18	3.71	49.76	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.33	3.71	42.61	Average	54	Pass
NVNT	ac40	5230	Ant1	5356.32	-46.12	3.71	52.82	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5414.37	-55.7	3.71	43.24	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-46.91	3.71	52.03	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.15	3.71	42.79	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-48.01	3.71	50.93	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.47	3.71	43.47	Average	54	Pass
NVNT	ac80	5210	Ant1	5415.78	-46.09	3.71	52.85	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5365.62	-54.66	3.71	44.28	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.61	3.71	50.33	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-55.46	3.71	43.48	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.56	3.71	49.38	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-56.18	3.71	42.76	Average	54	Pass
NVNT	ac80	5210	Ant1	5043.52	-44.39	3.71	54.55	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5090.13	-54.03	3.71	44.91	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-47.91	3.71	51.03	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-53.82	3.71	45.12	Average	54	Pass



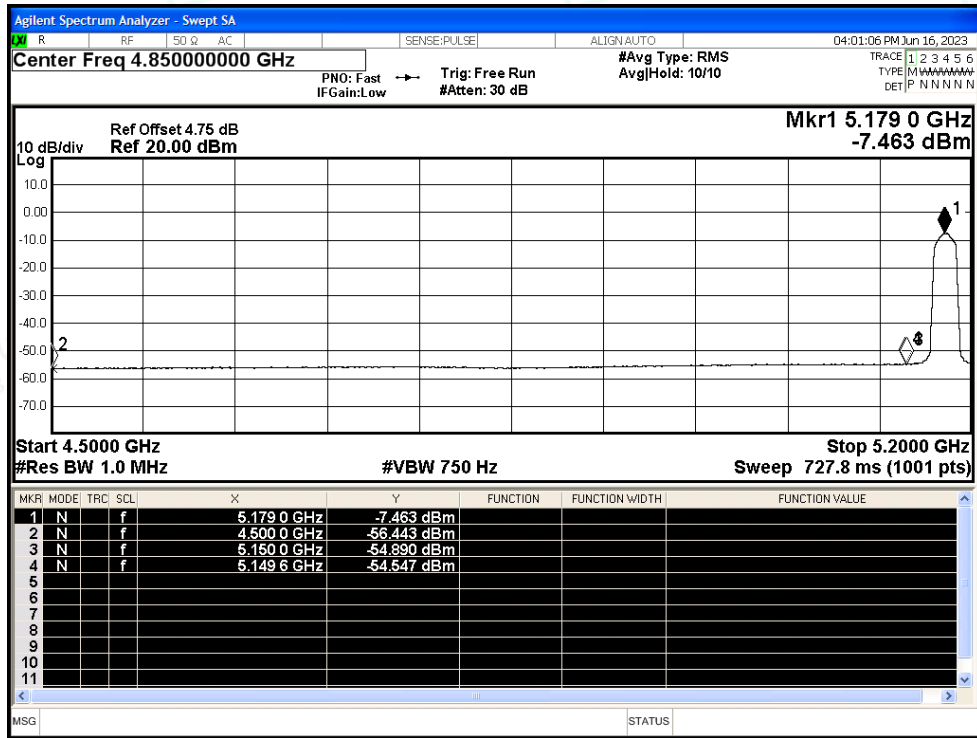


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

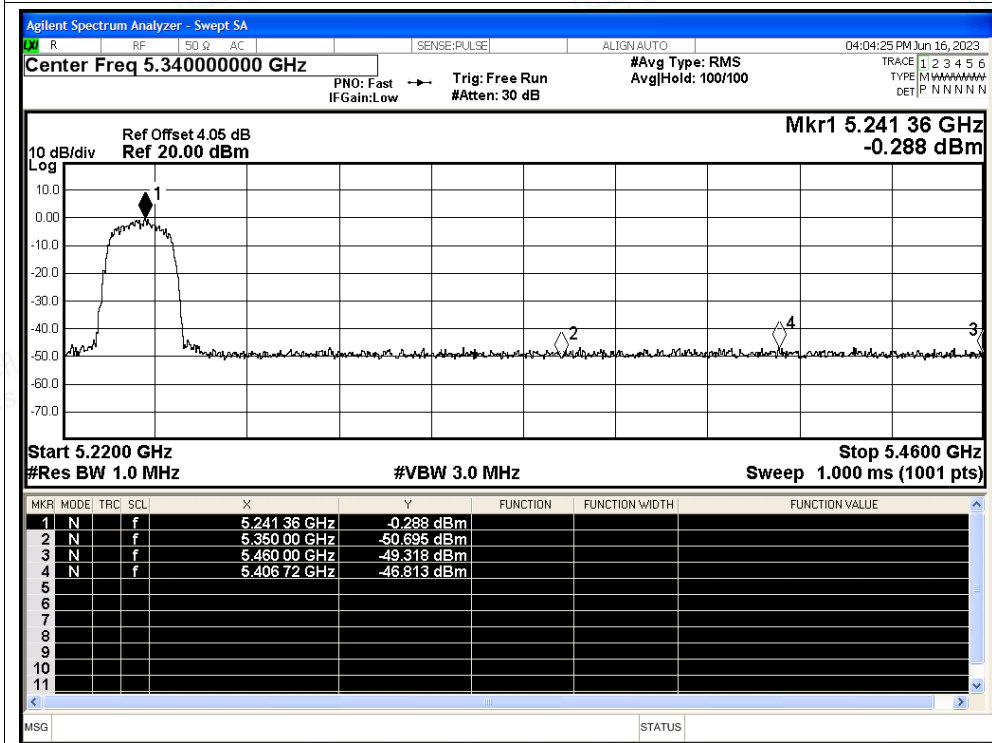


Restrict Band NVNT a 5180MHz Ant1 Average

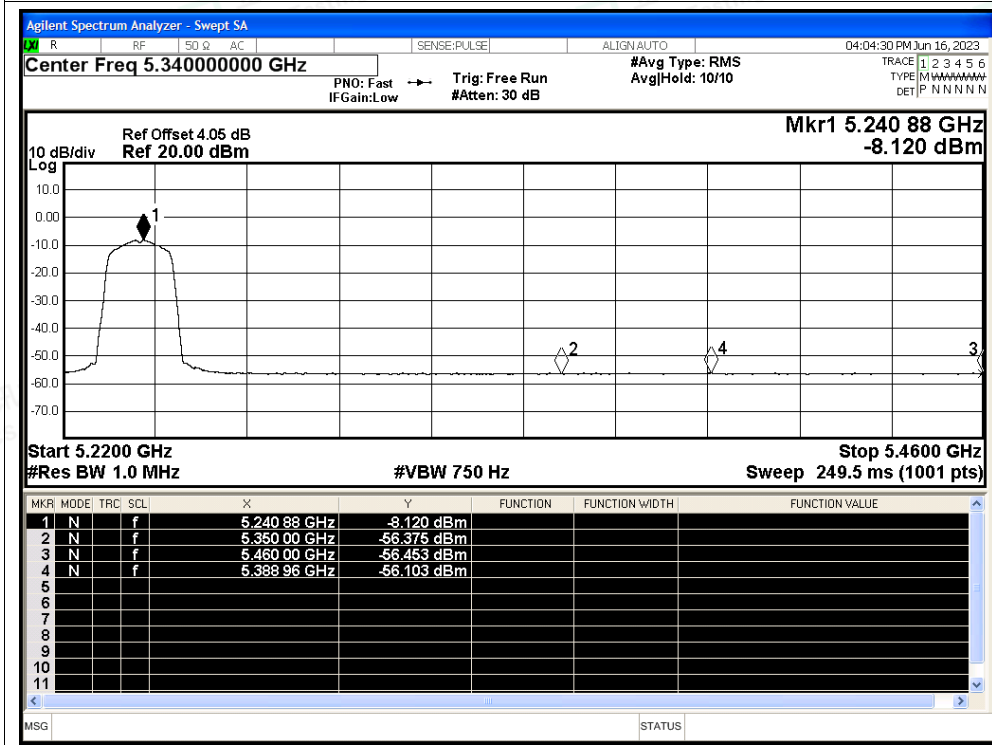




Restrict Band NVNT a 5240MHz Ant1 Peak

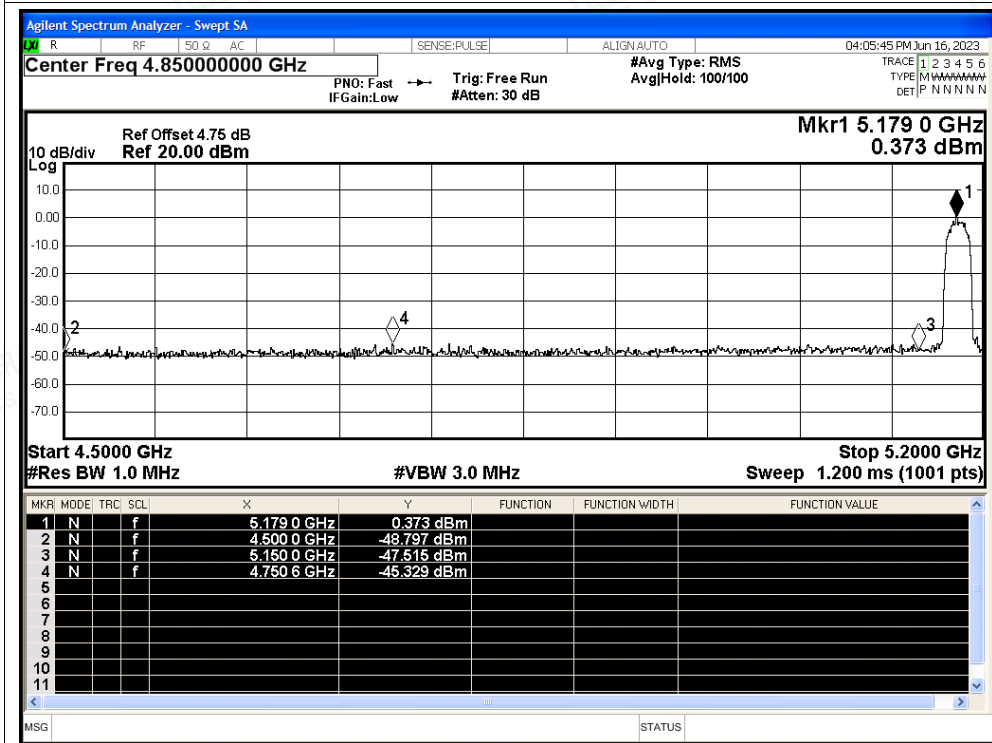


Restrict Band NVNT a 5240MHz Ant1 Average

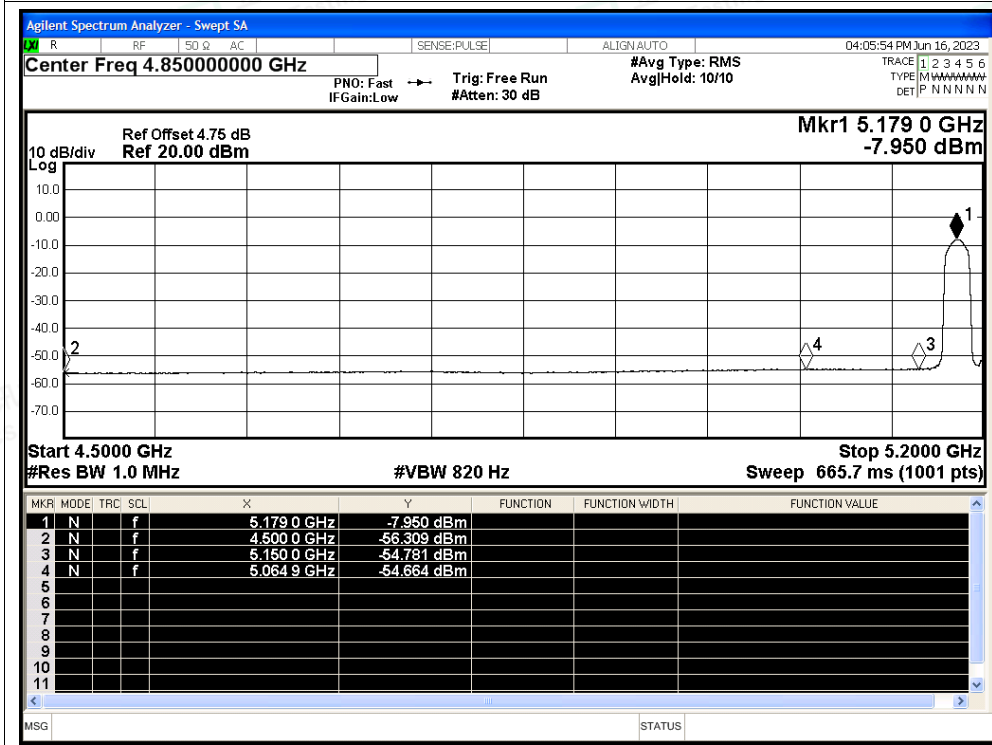




Restrict Band NVNT n20 5180MHz Ant1 Peak

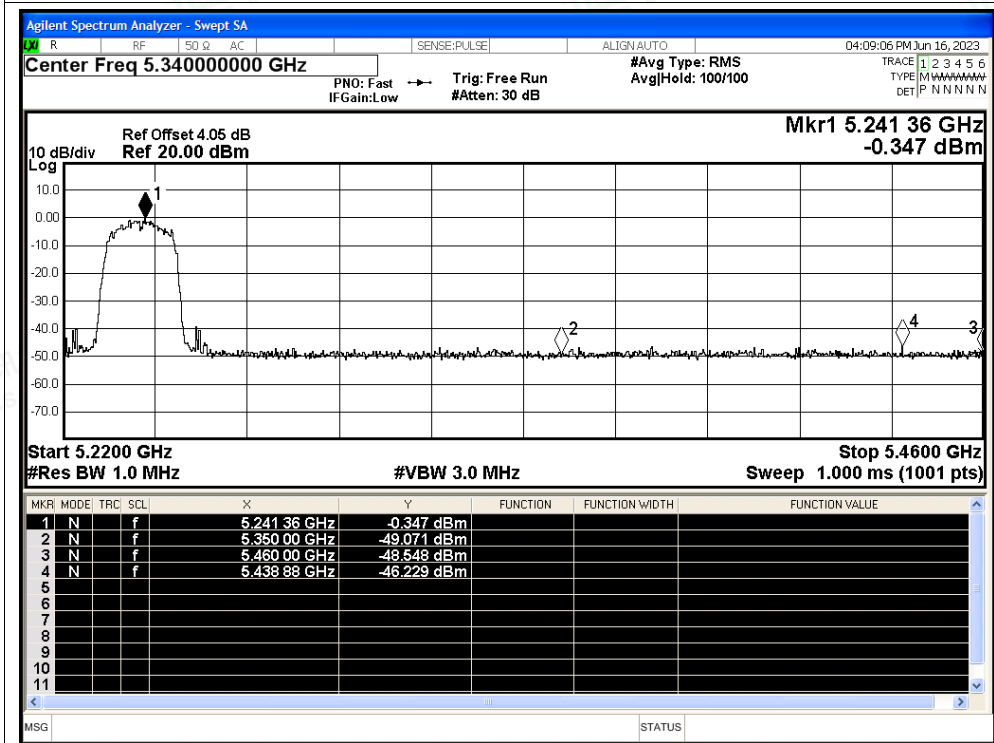


Restrict Band NVNT n20 5180MHz Ant1 Average

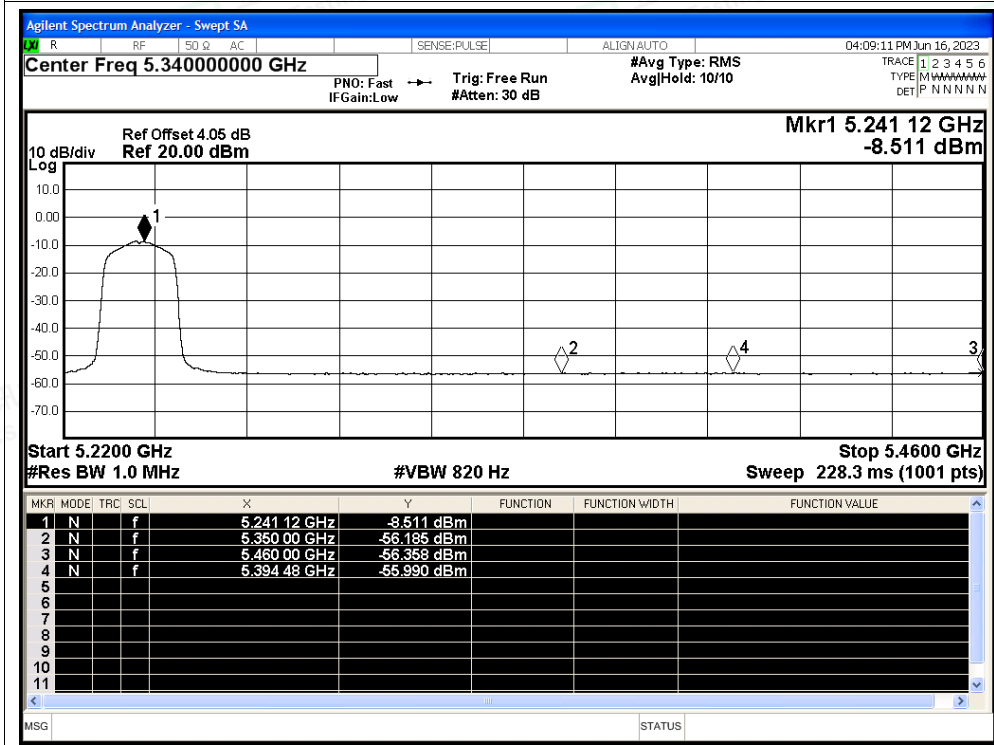




Restrict Band NVNT n20 5240MHz Ant1 Peak

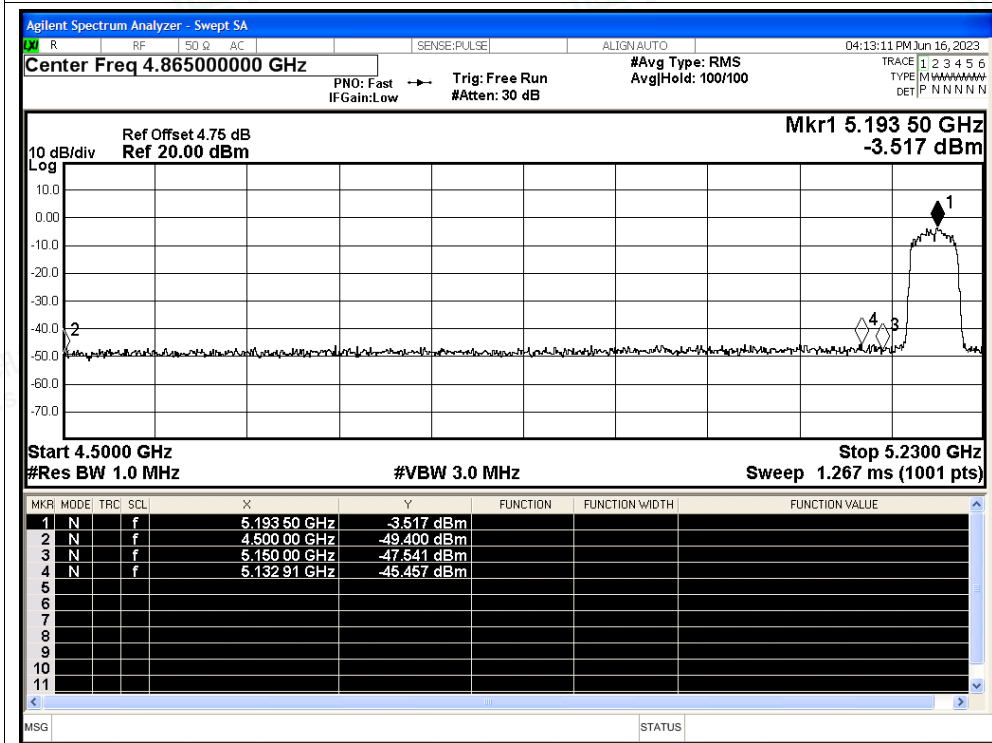


Restrict Band NVNT n20 5240MHz Ant1 Average

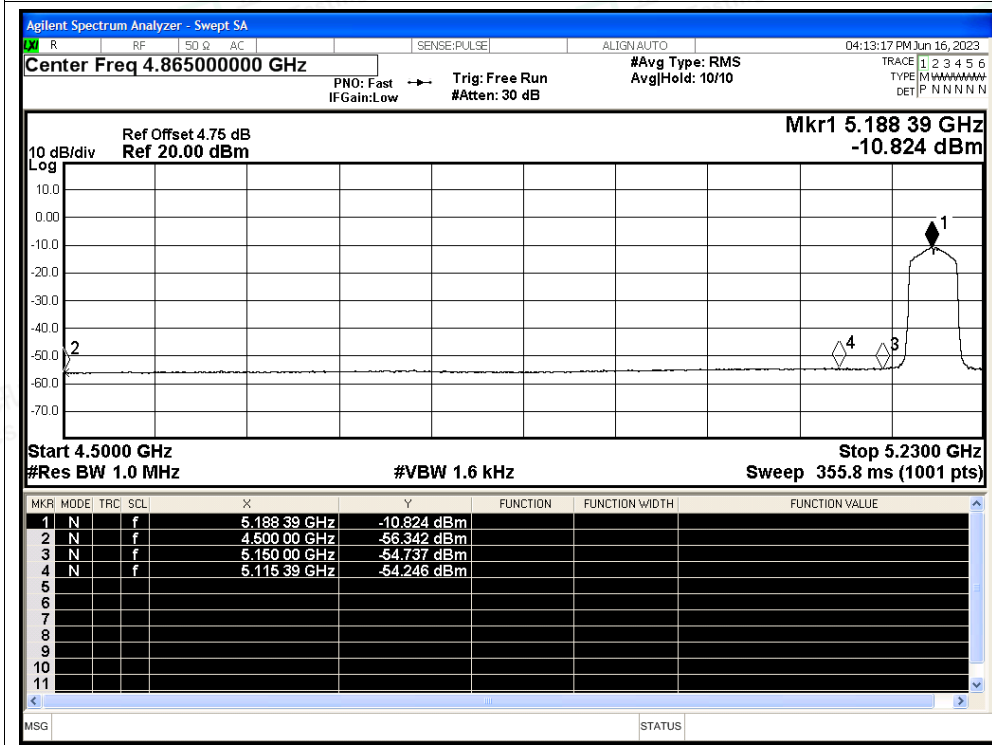




Restrict Band NVNT n40 5190MHz Ant1 Peak

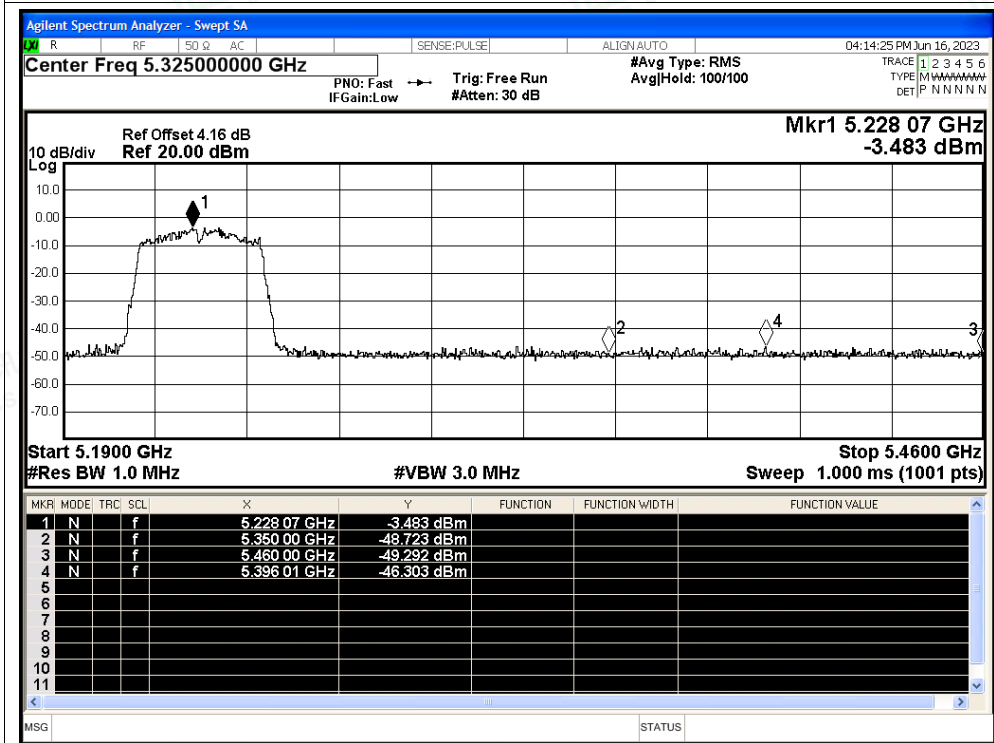


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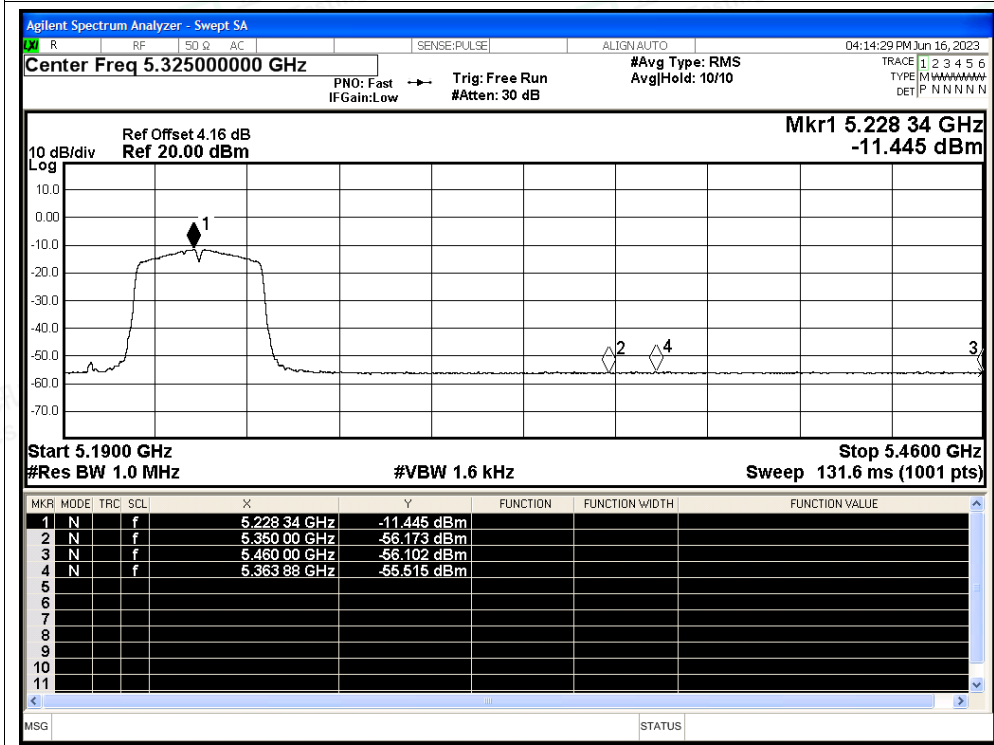




Restrict Band NVNT n40 5230MHz Ant1 Peak

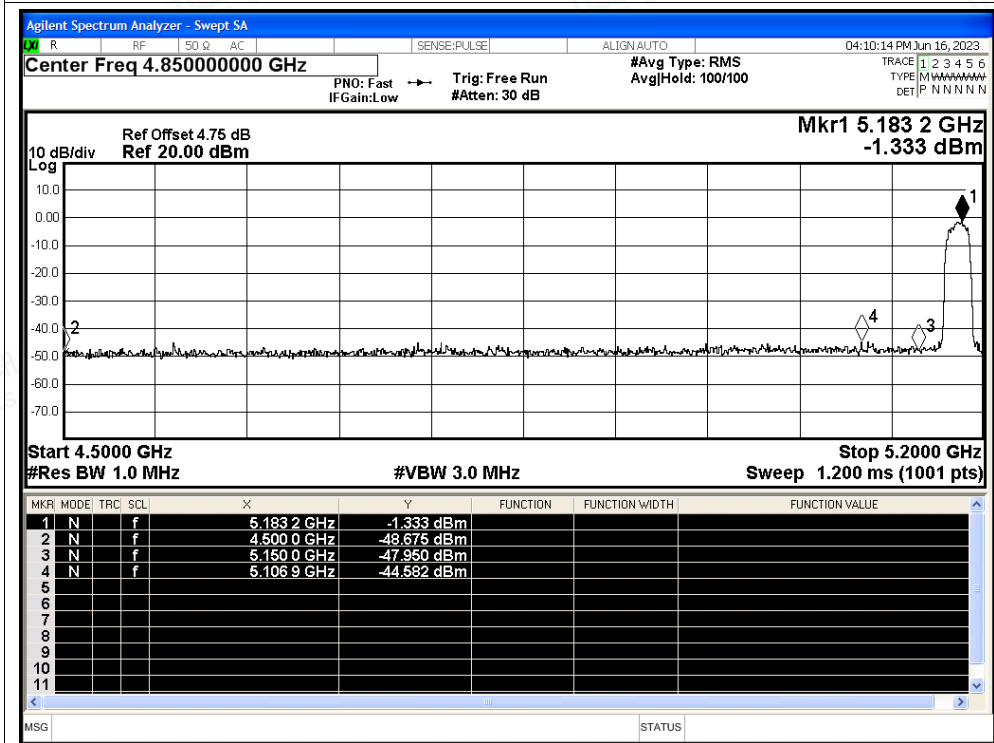


Restrict Band NVNT n40 5230MHz Ant1 Average

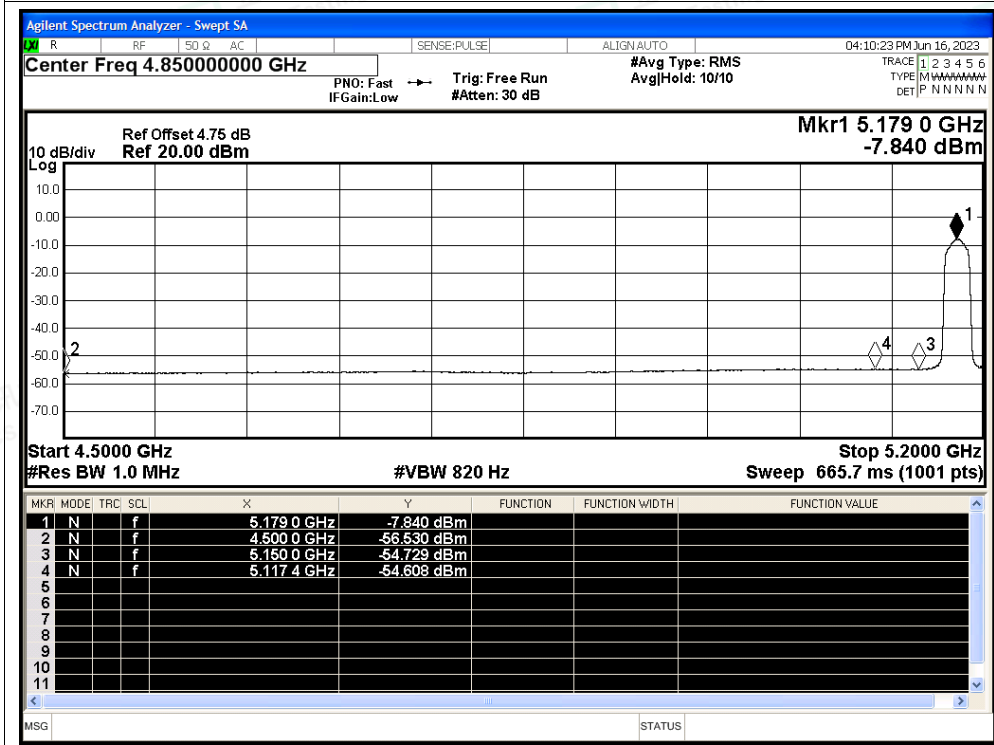




Restrict Band NVNT ac20 5180MHz Ant1 Peak

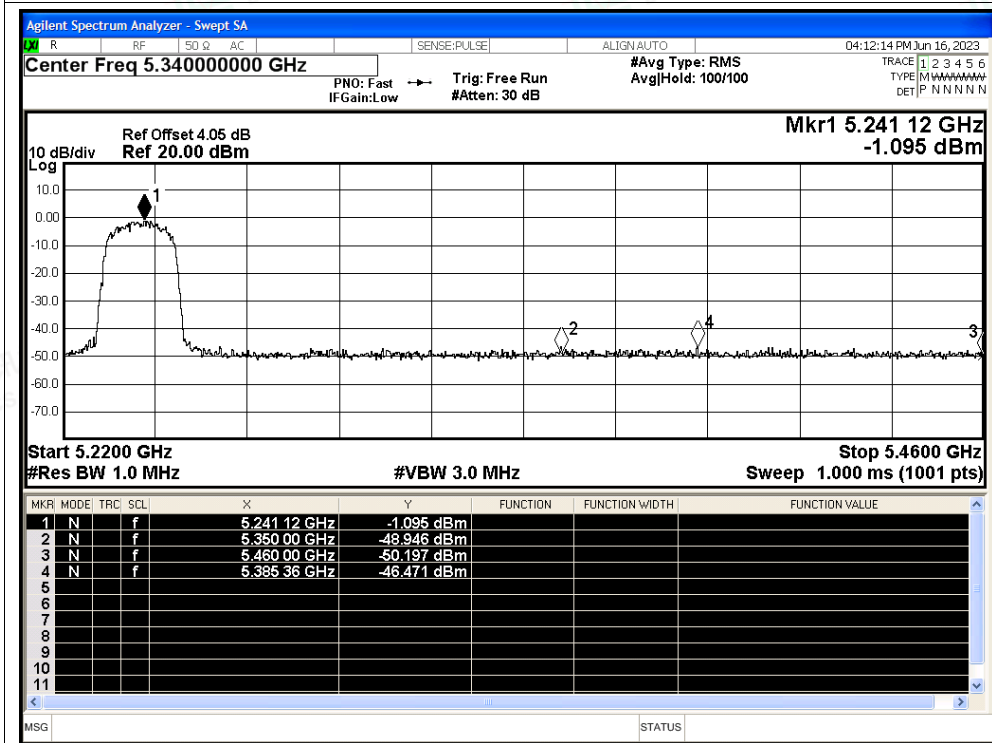


Restrict Band NVNT ac20 5180MHz Ant1 Average

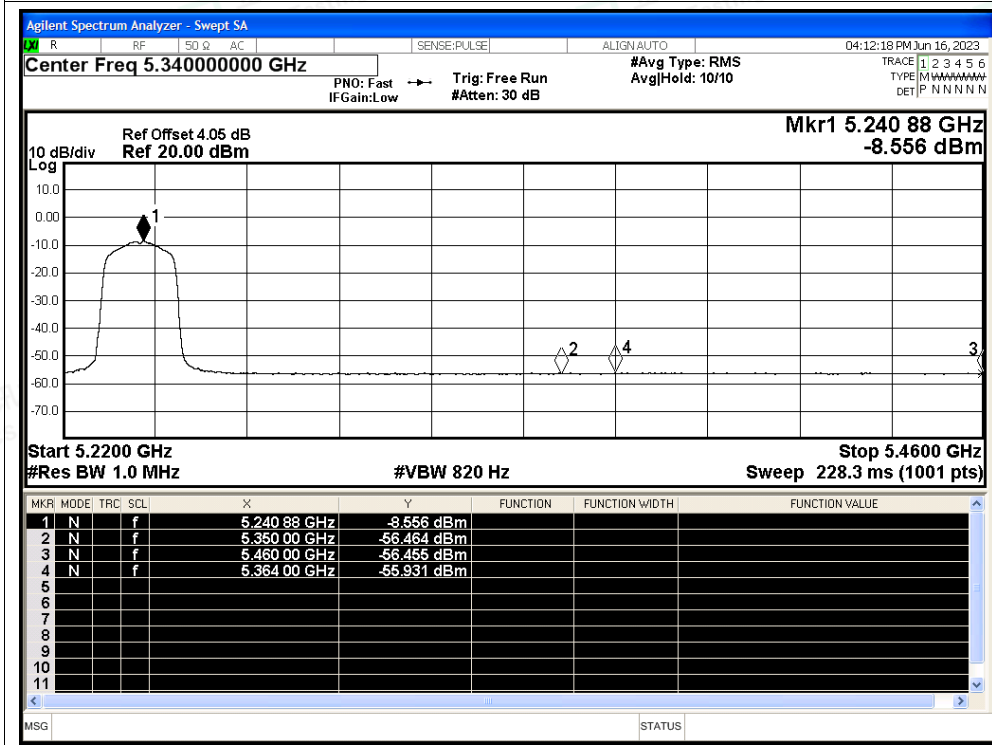




Restrict Band NVNT ac20 5240MHz Ant1 Peak

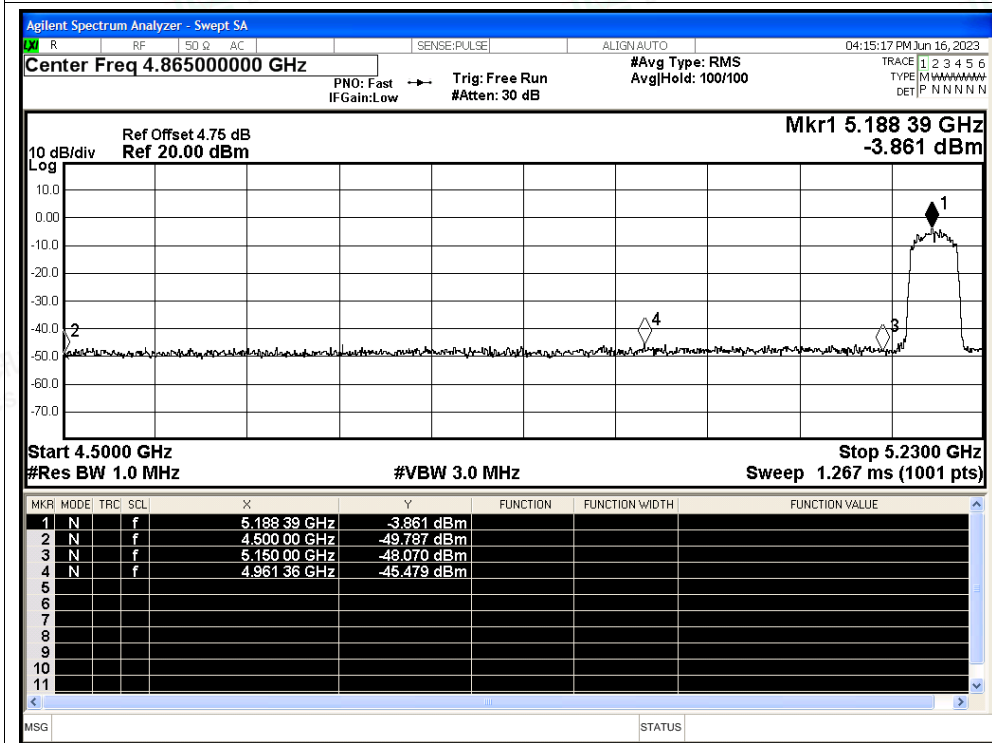


Restrict Band NVNT ac20 5240MHz Ant1 Average

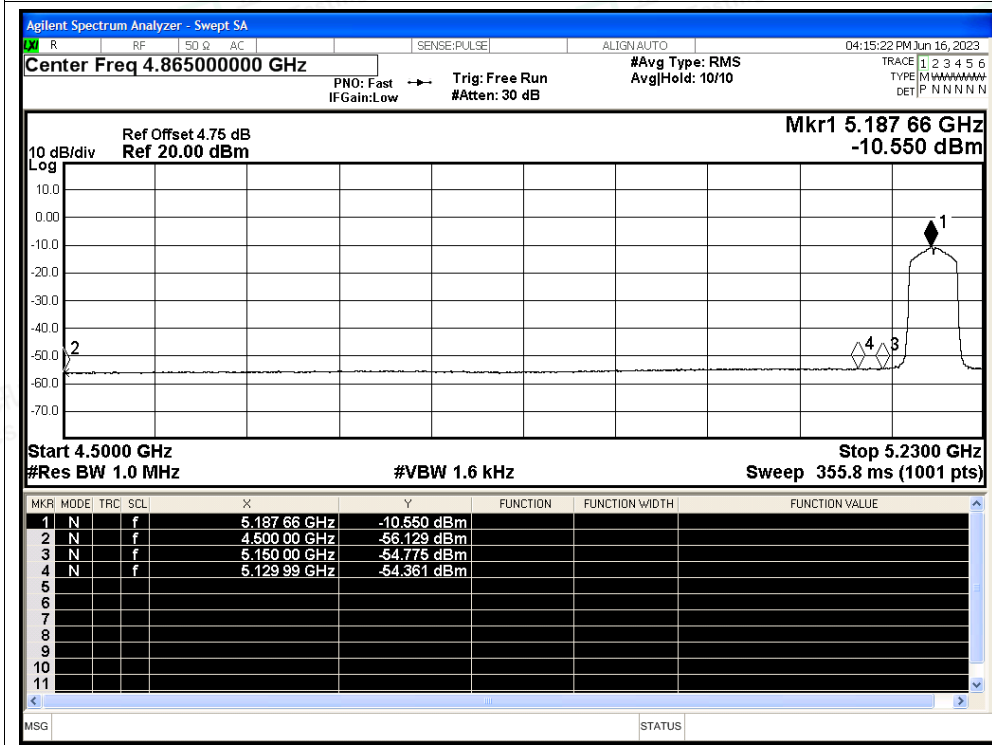




Restrict Band NVNT ac40 5190MHz Ant1 Peak

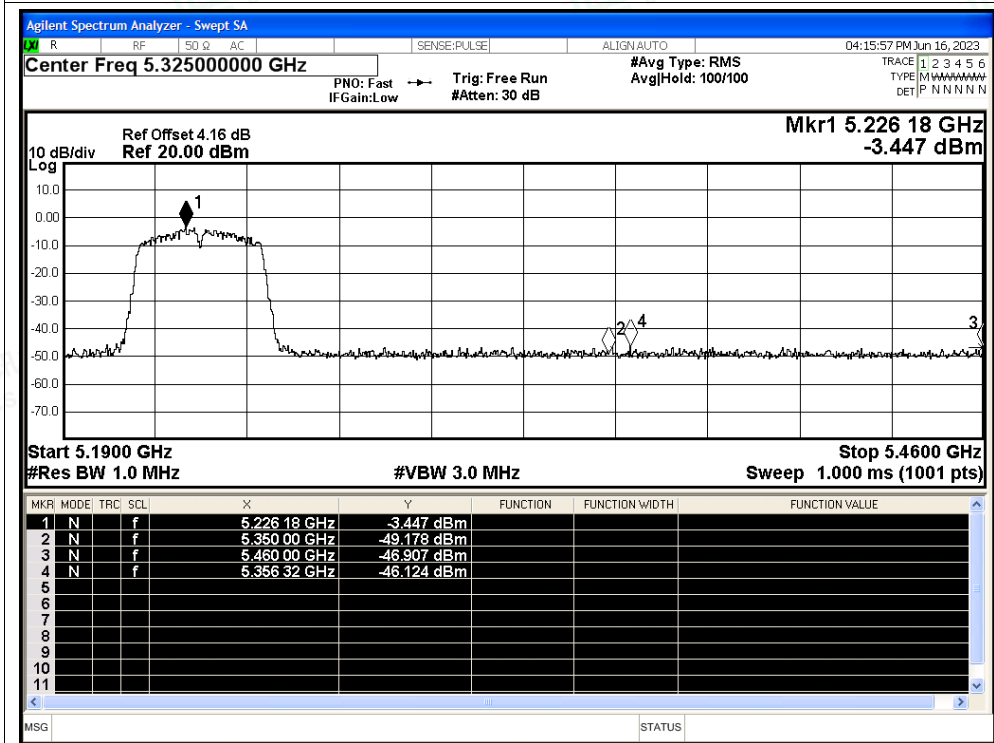


Restrict Band NVNT ac40 5190MHz Ant1 Average

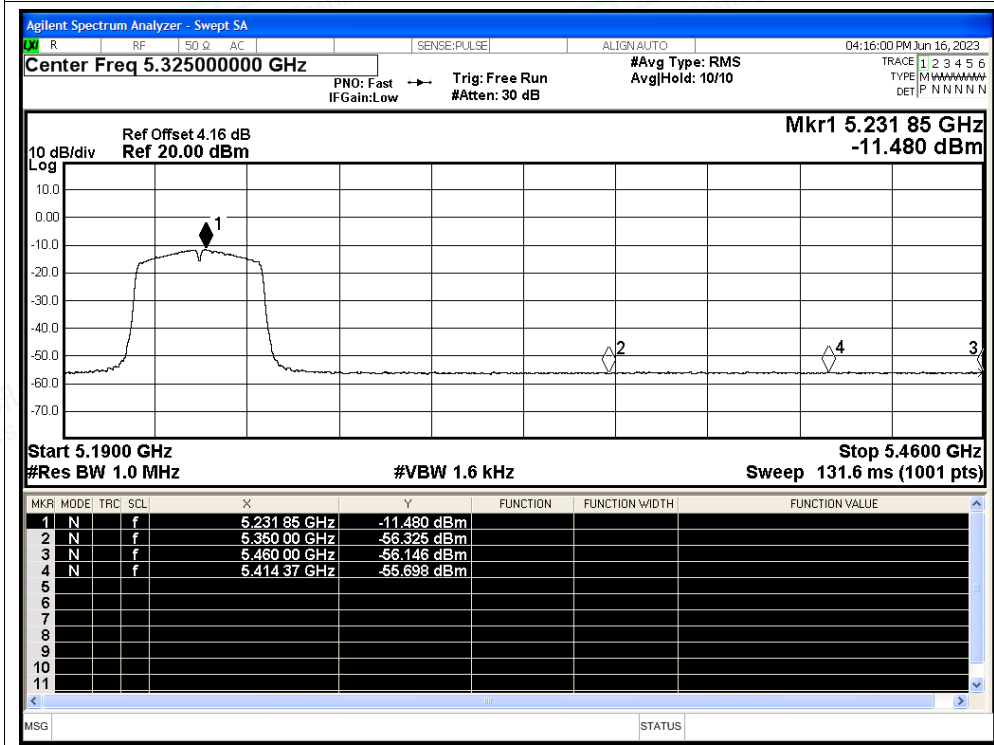




Restrict Band NVNT ac40 5230MHz Ant1 Peak

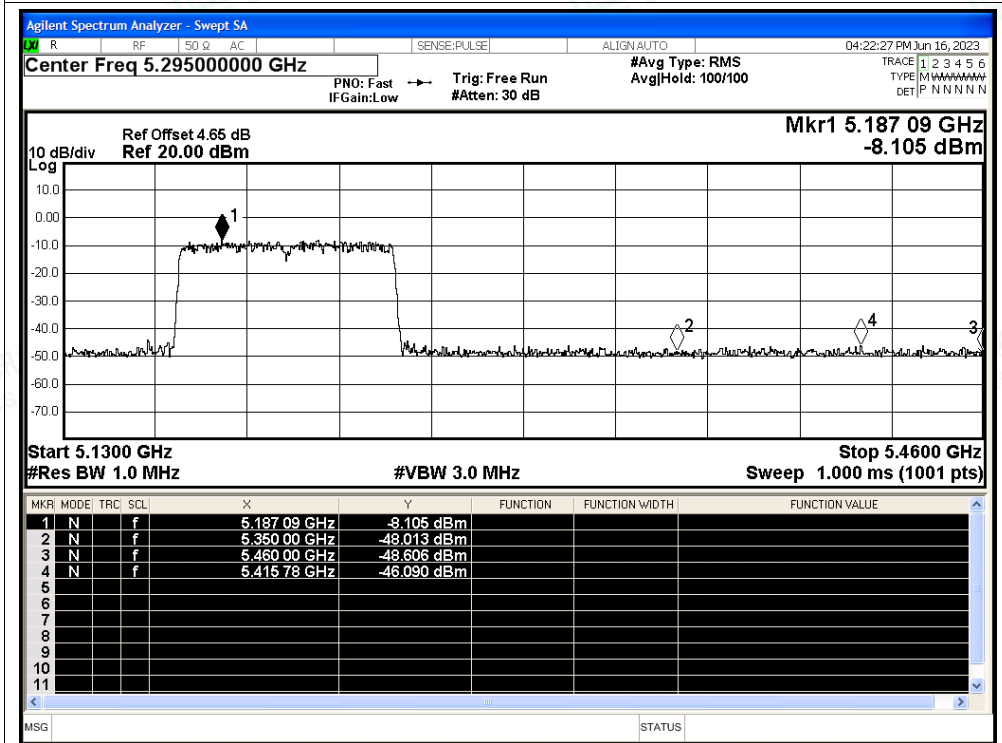


Restrict Band NVNT ac40 5230MHz Ant1 Average

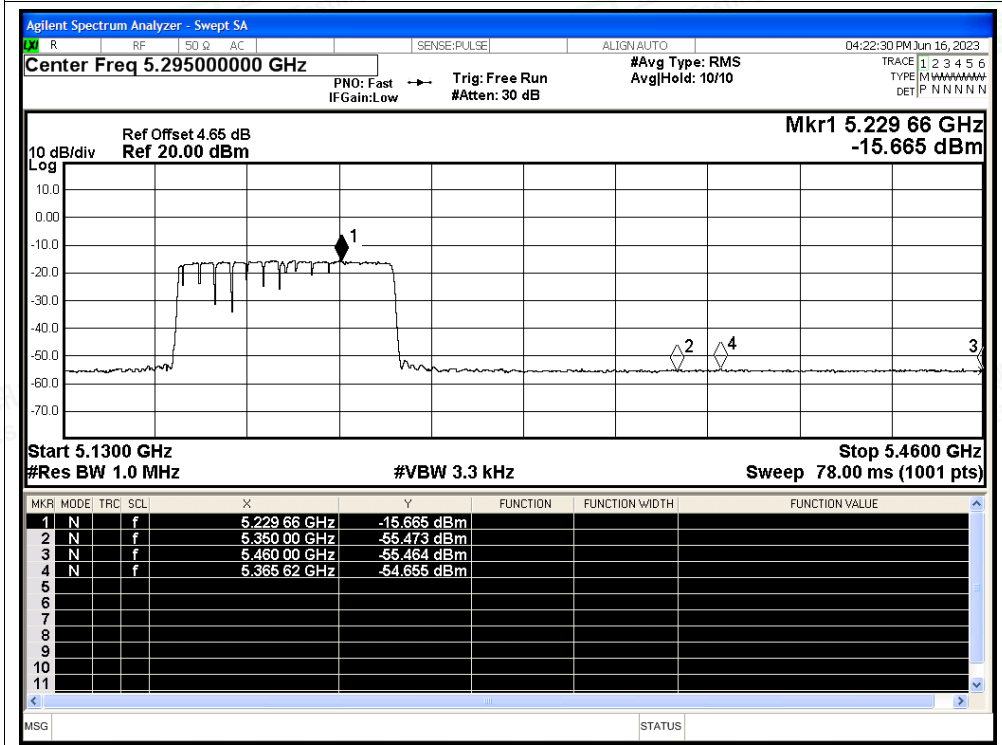




Restrict Band NVNT ac80 5210MHz Ant1 Peak

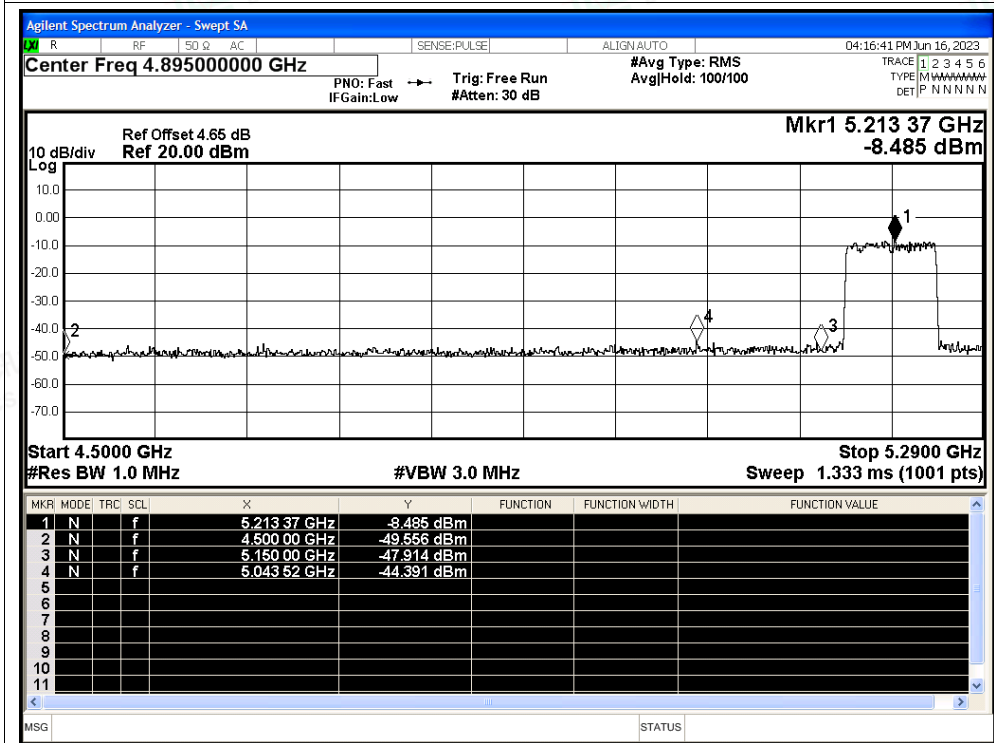


Restrict Band NVNT ac80 5210MHz Ant1 Average

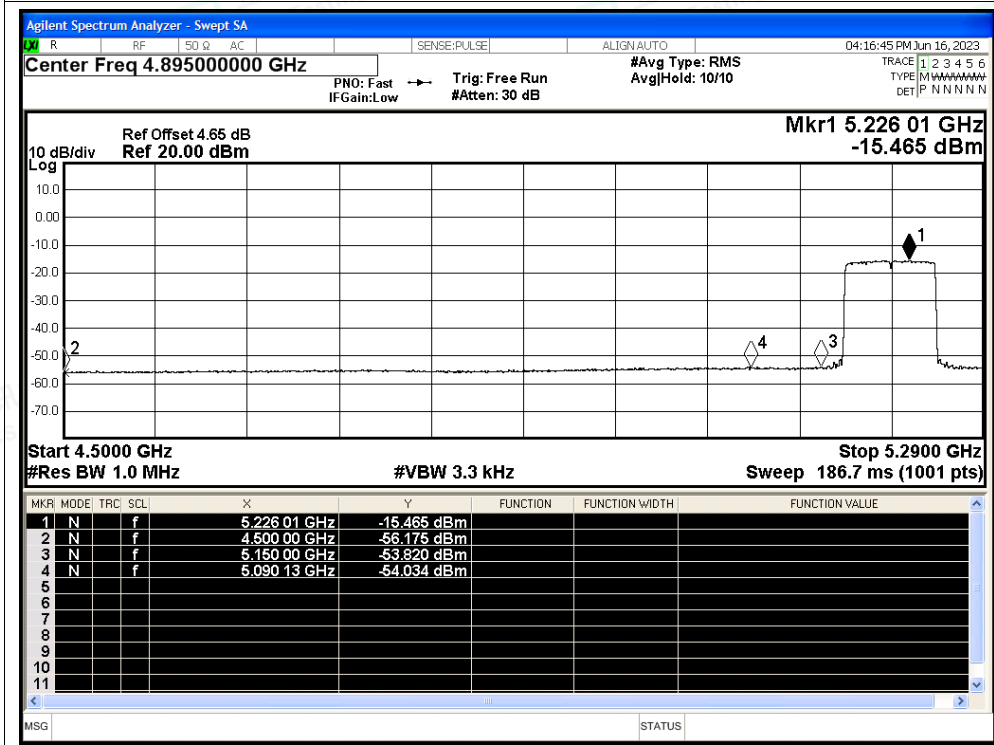




Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average





B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

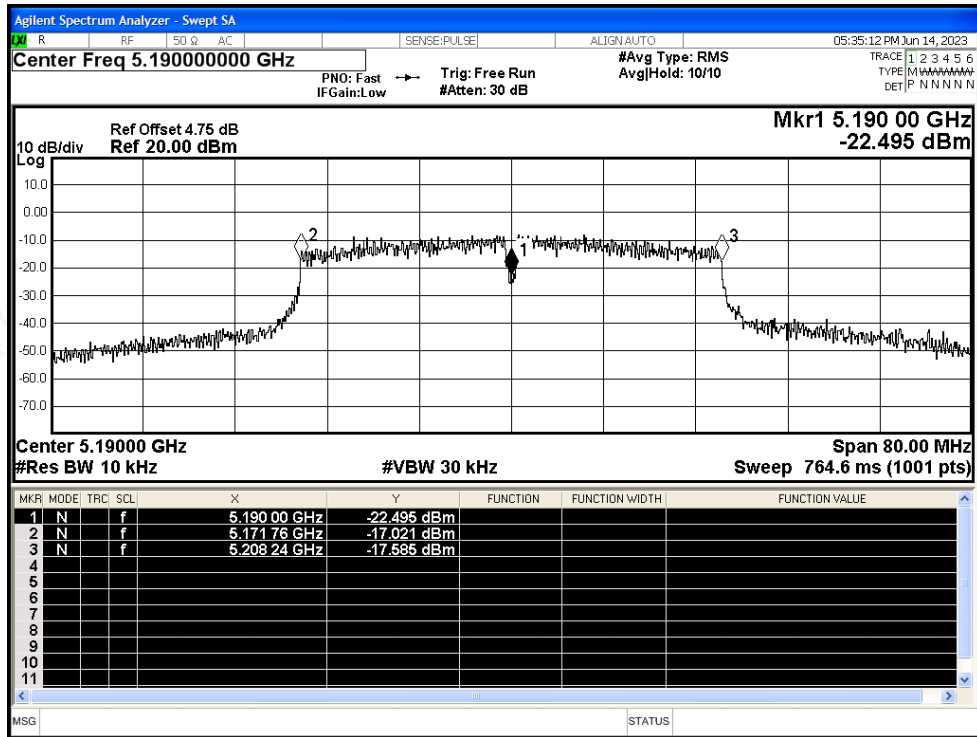


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

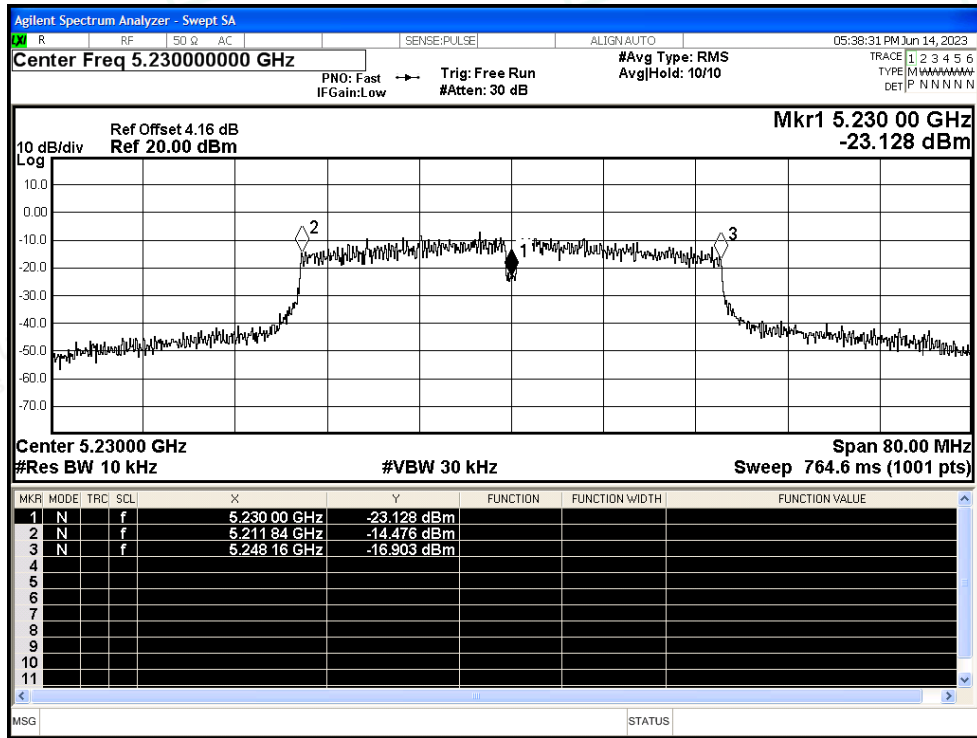


Test Graphs

Freq. Stability NVNT n40 5190MHz Ant1

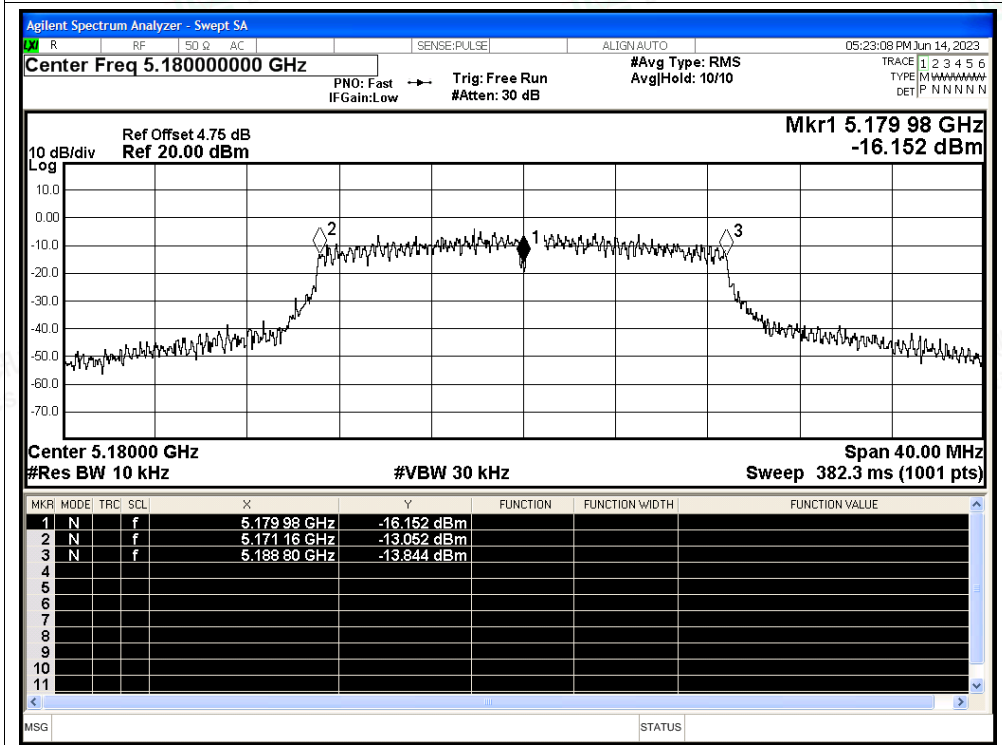


Freq. Stability NVNT n40 5230MHz Ant1

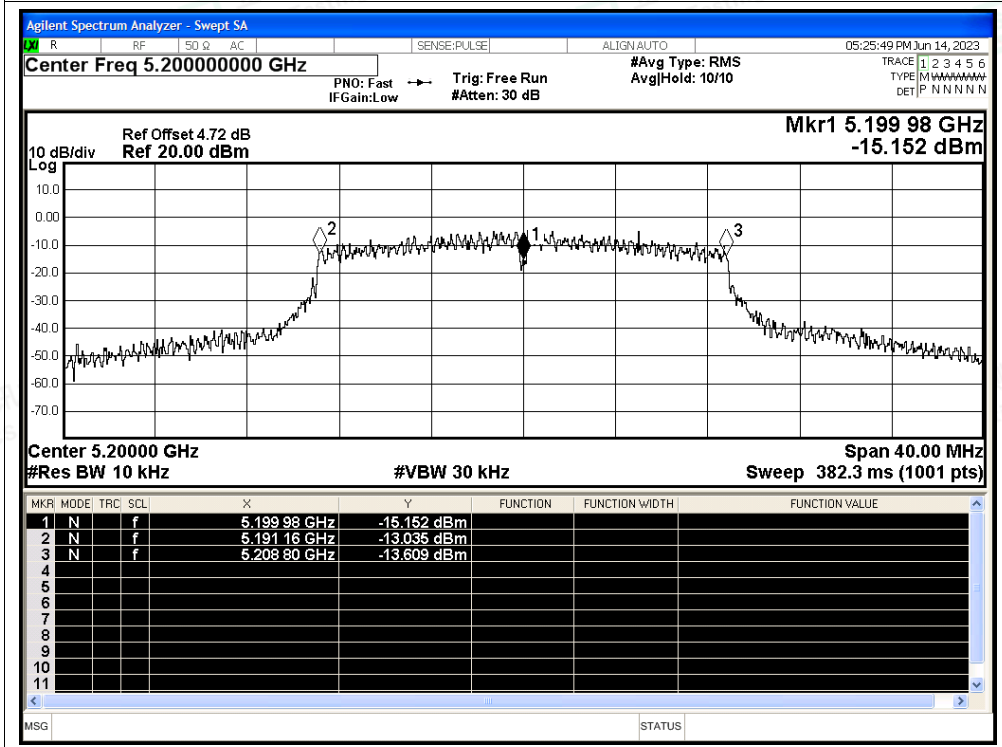




Freq. Stability NVNT ac20 5180MHz Ant1

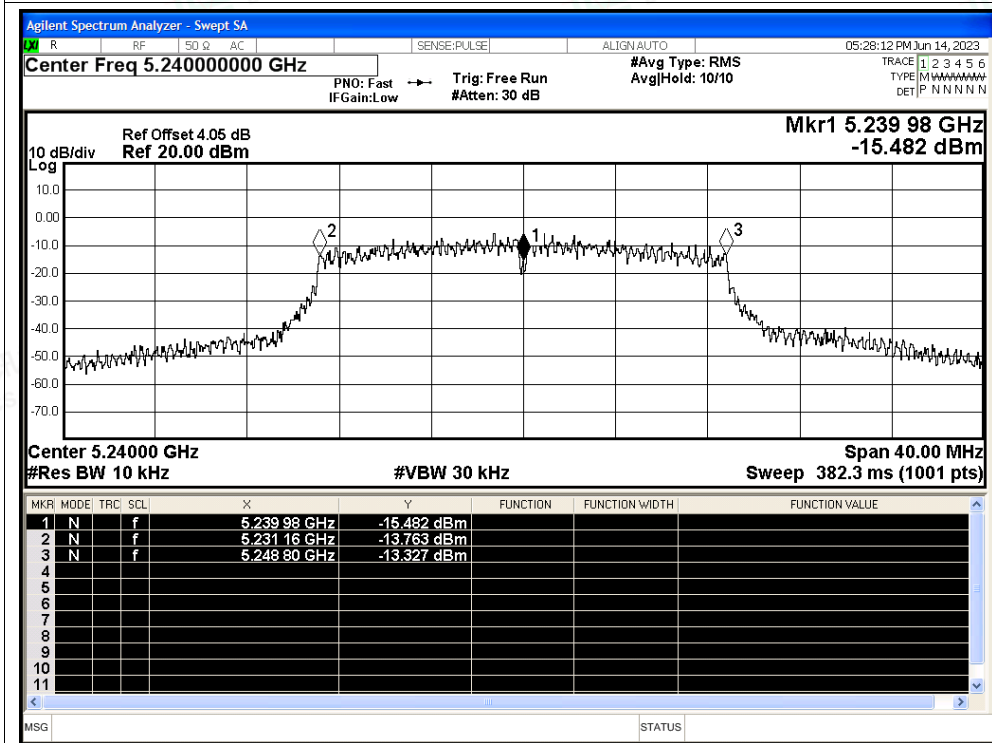


Freq. Stability NVNT ac20 5200MHz Ant1

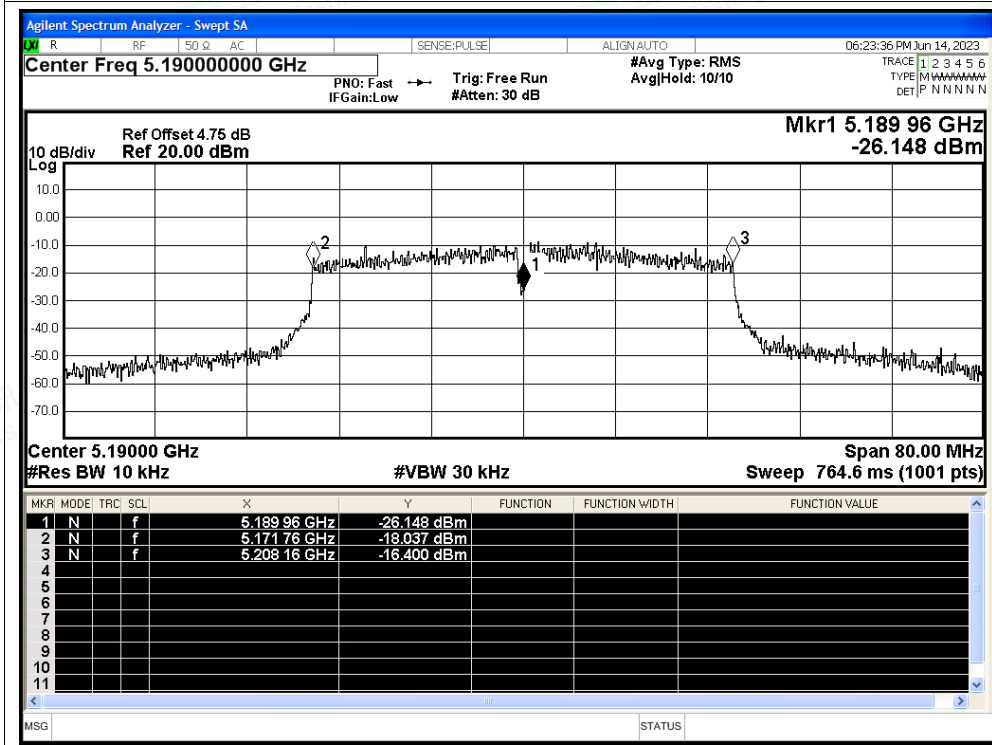




Freq. Stability NVNT ac20 5240MHz Ant1

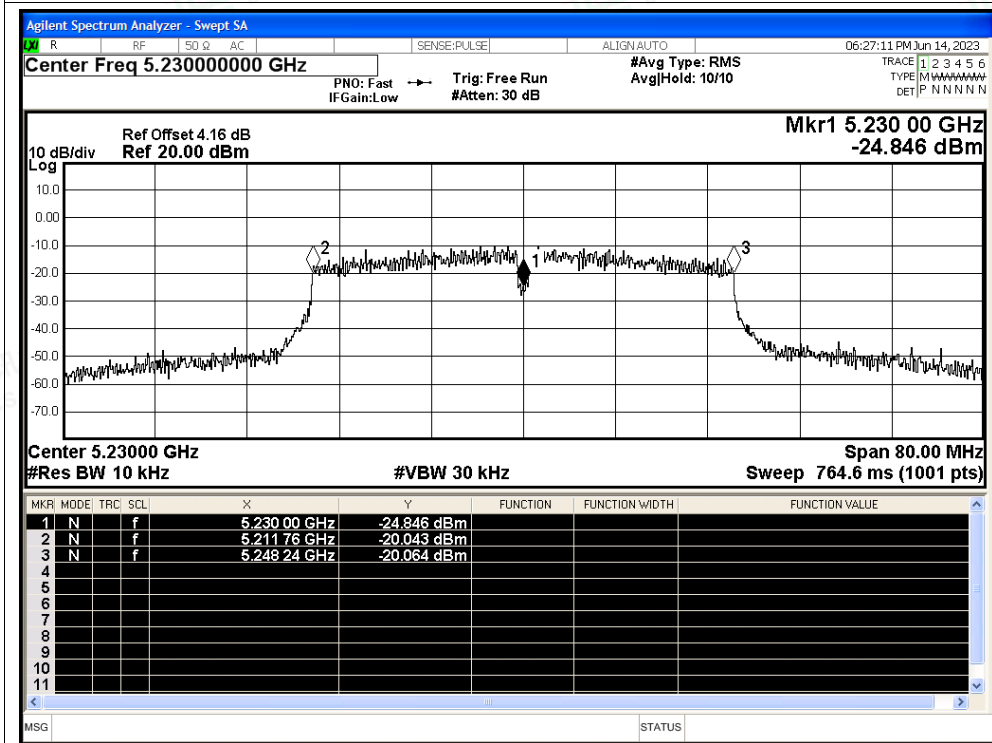


Freq. Stability NVNT ac40 5190MHz Ant1

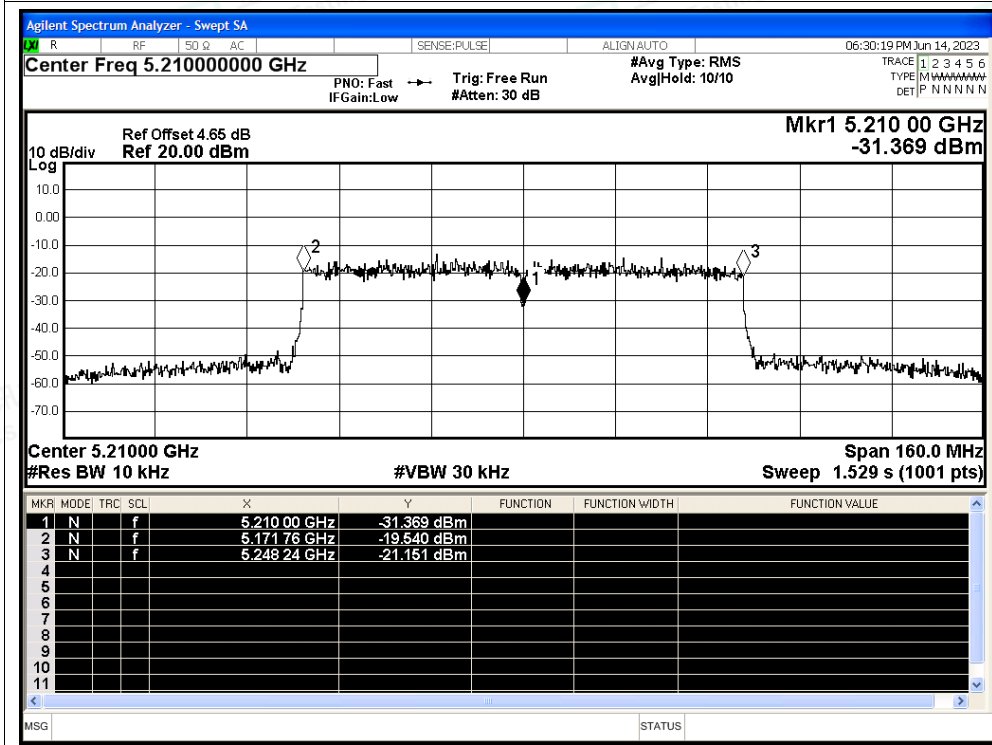




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1





B.6 Duty Cycle

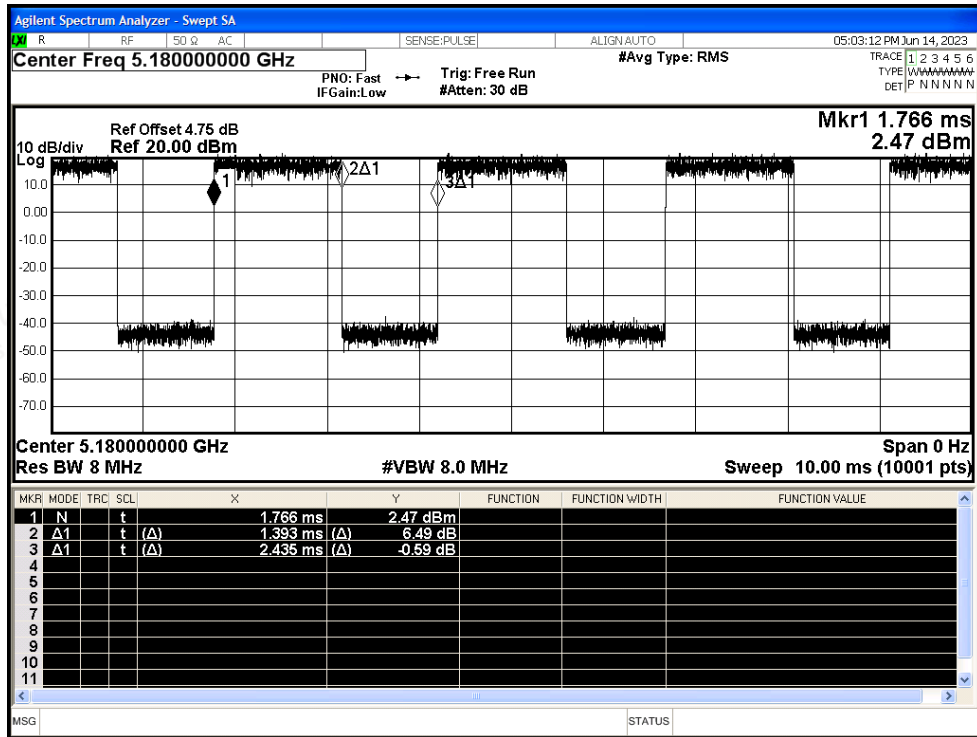
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	57.21	2.43	0.72
NVNT	a	5200	Ant1	58.73	2.31	0.72
NVNT	a	5240	Ant1	58.24	2.35	0.72
NVNT	n20	5180	Ant1	57.02	2.44	0.77
NVNT	n20	5200	Ant1	56.39	2.49	0.77
NVNT	n20	5240	Ant1	56.79	2.46	0.77
NVNT	n40	5190	Ant1	36.22	4.41	1.53
NVNT	n40	5230	Ant1	39.36	4.05	1.53
NVNT	ac20	5180	Ant1	55.02	2.59	0.76
NVNT	ac20	5200	Ant1	55.68	2.54	0.76
NVNT	ac20	5240	Ant1	56.76	2.46	0.76
NVNT	ac40	5190	Ant1	39.52	4.03	1.53
NVNT	ac40	5230	Ant1	38.88	4.1	1.53
NVNT	ac80	5210	Ant1	24.94	6.03	3.08



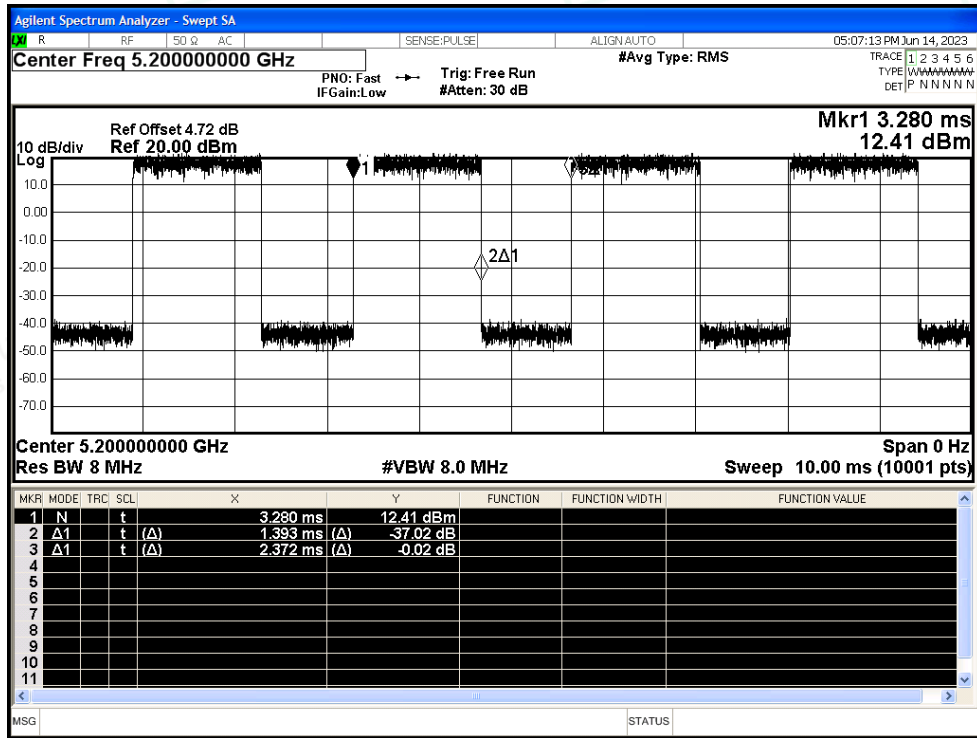


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

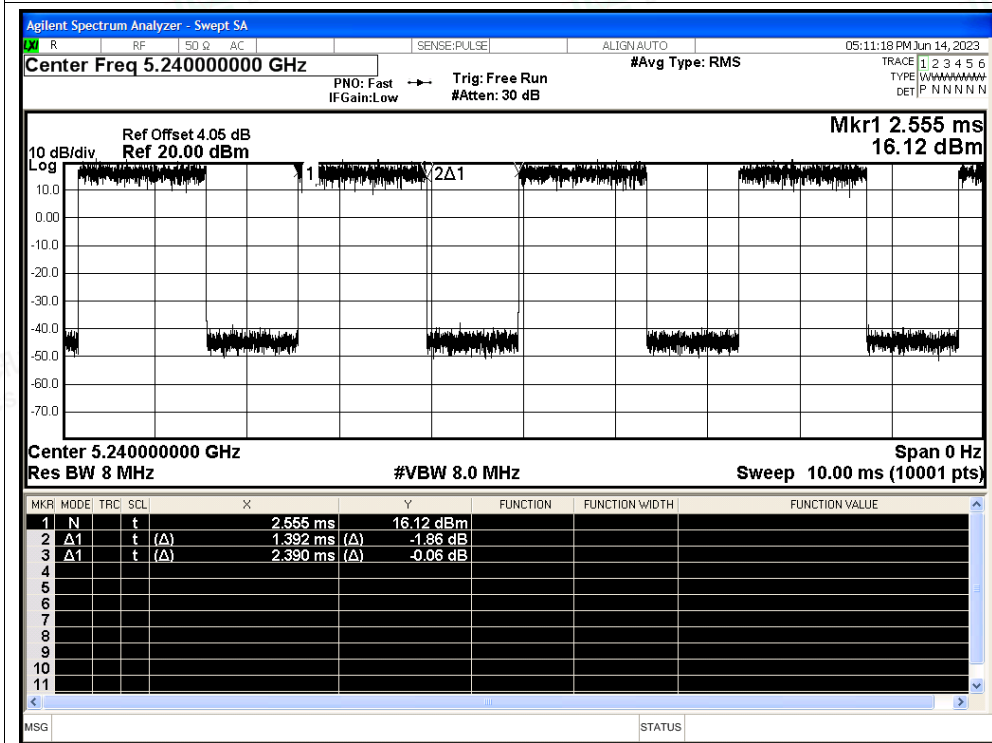


Duty Cycle NVNT a 5200MHz Ant1

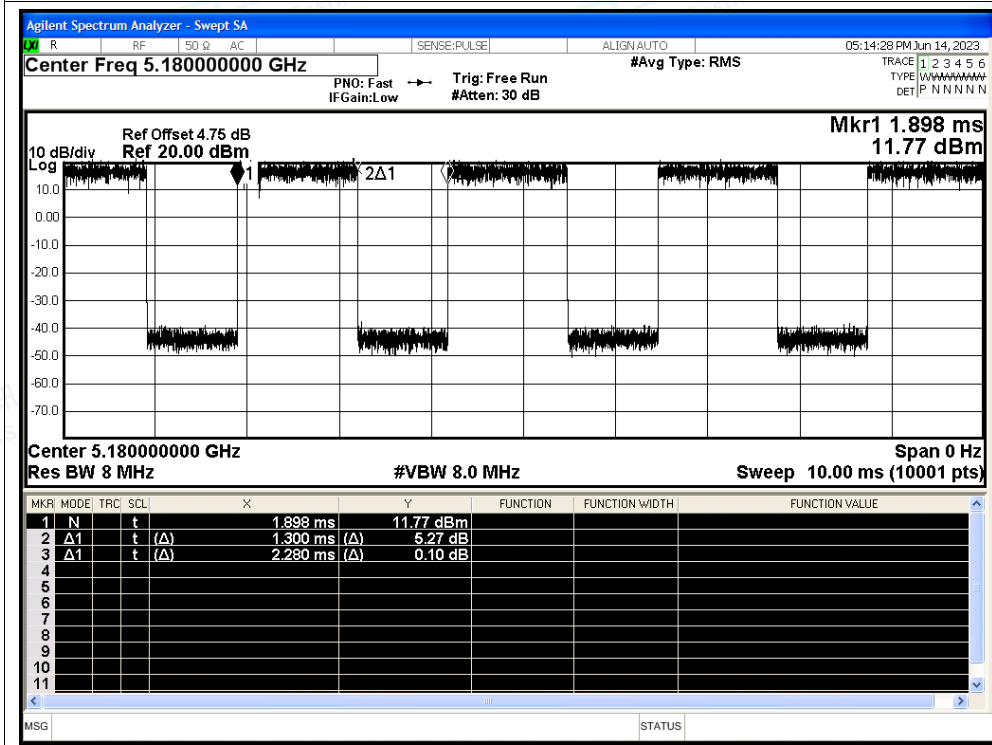




Duty Cycle NVNT a 5240MHz Ant1

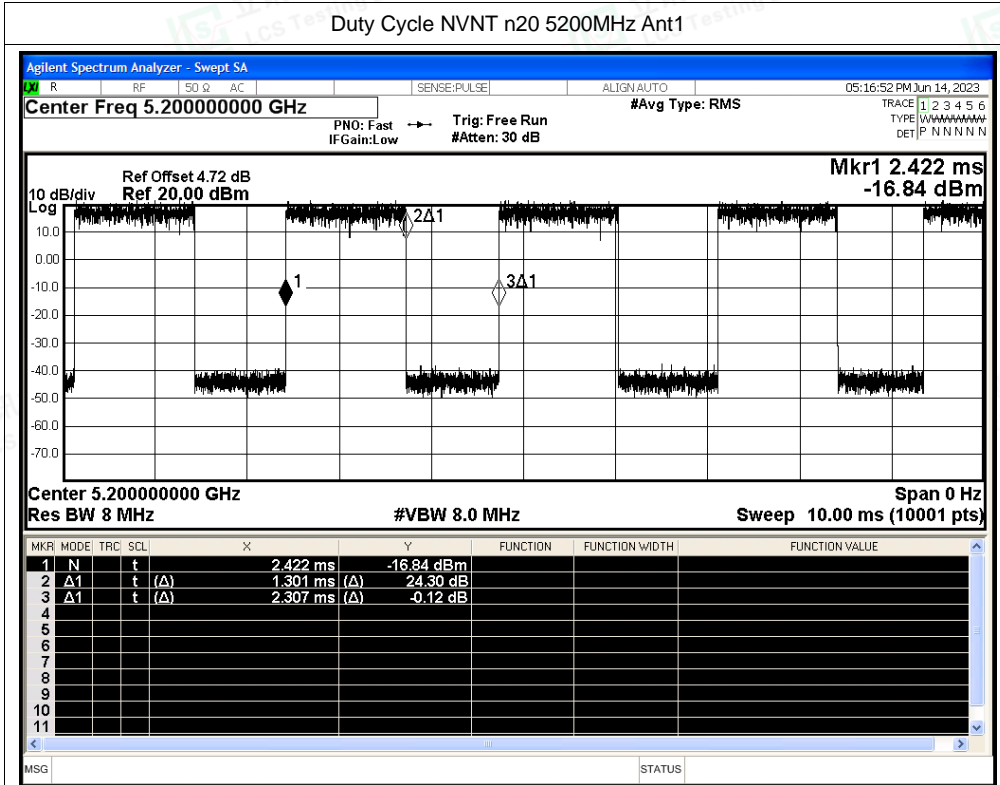


Duty Cycle NVNT n20 5180MHz Ant1

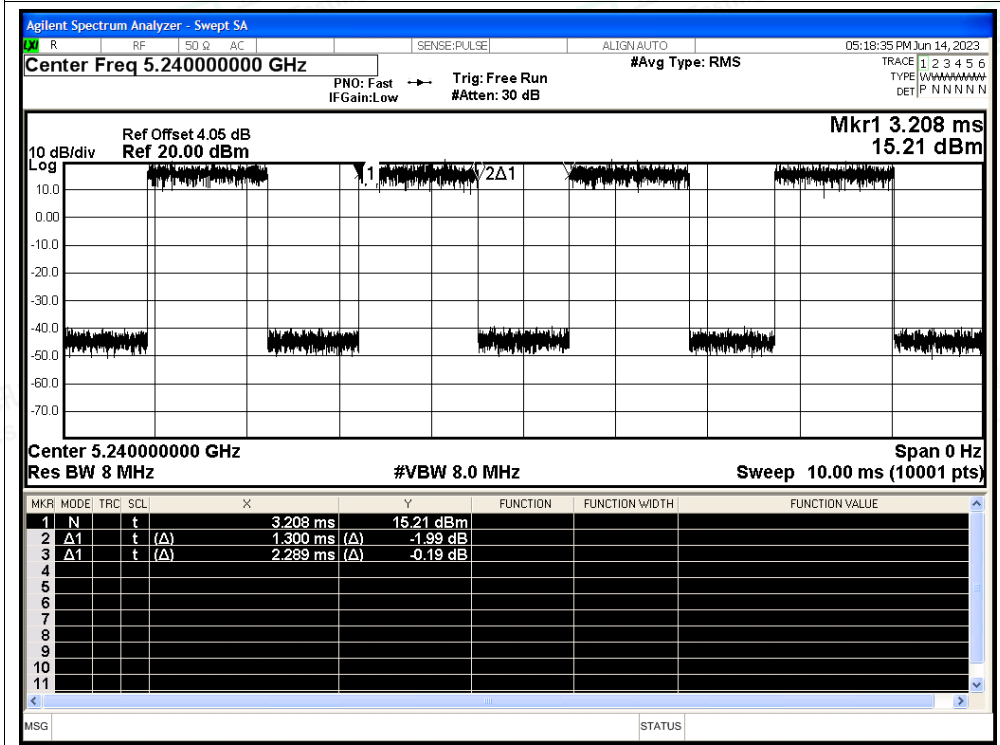




Duty Cycle NVNT n20 5200MHz Ant1

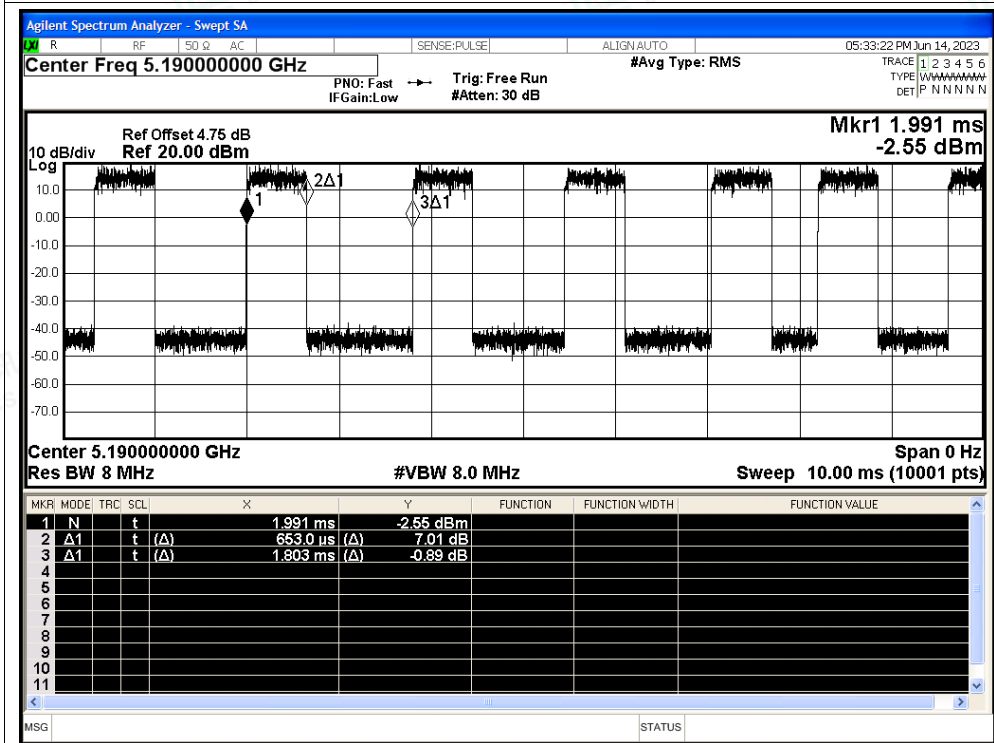


Duty Cycle NVNT n20 5240MHz Ant1

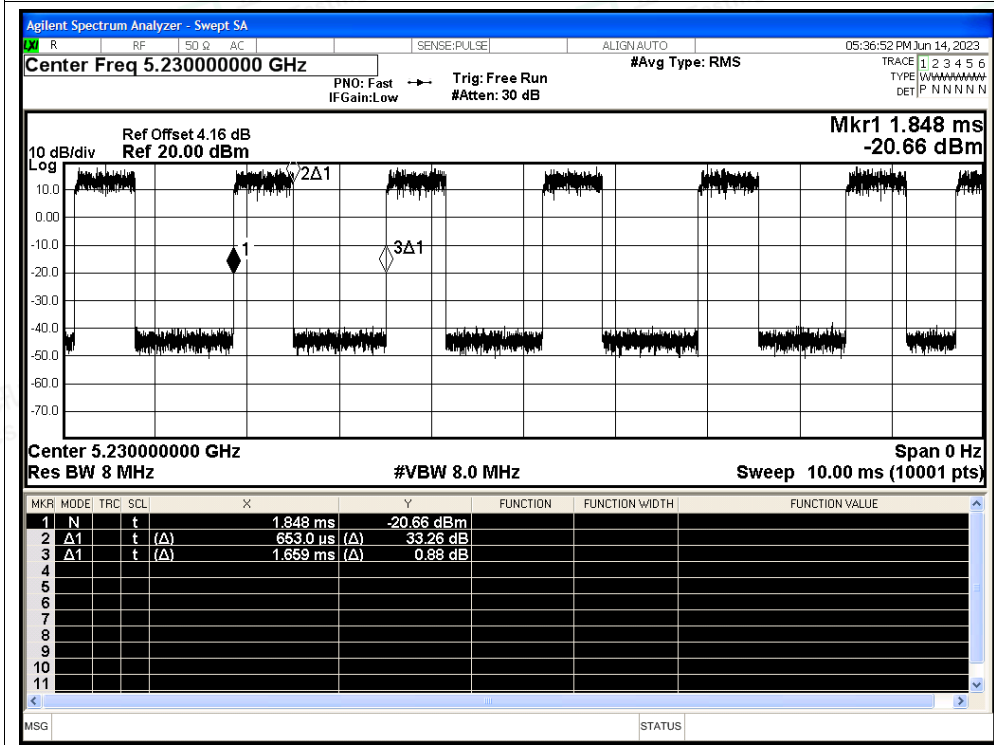




Duty Cycle NVNT n40 5190MHz Ant1

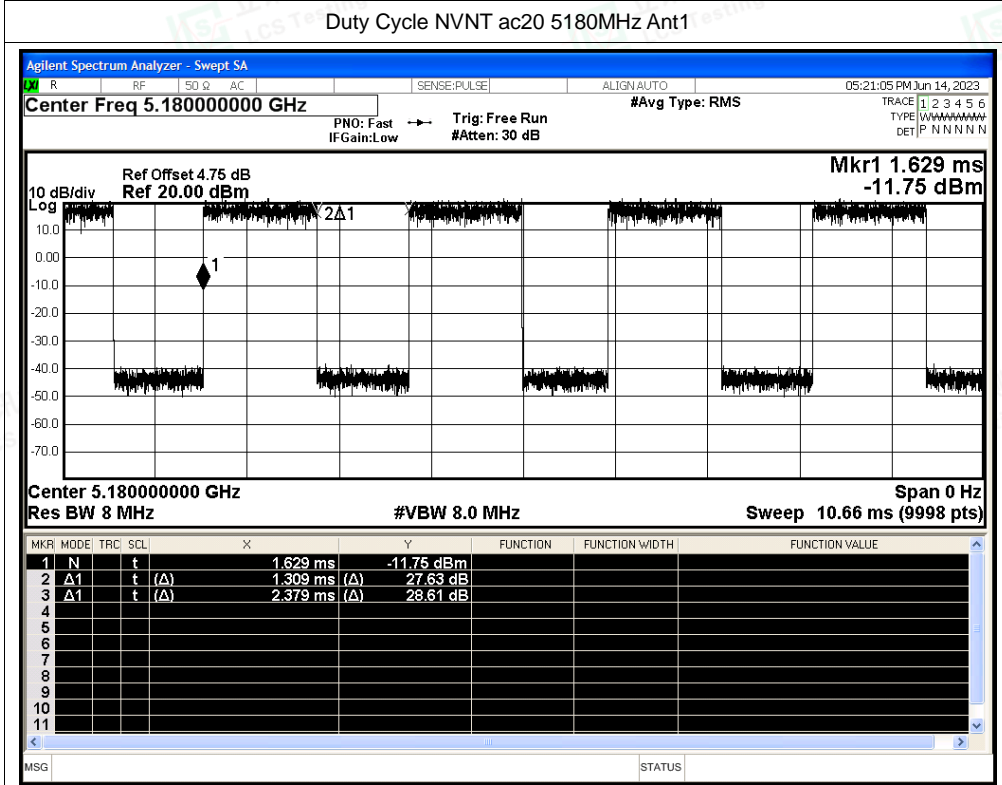


Duty Cycle NVNT n40 5230MHz Ant1

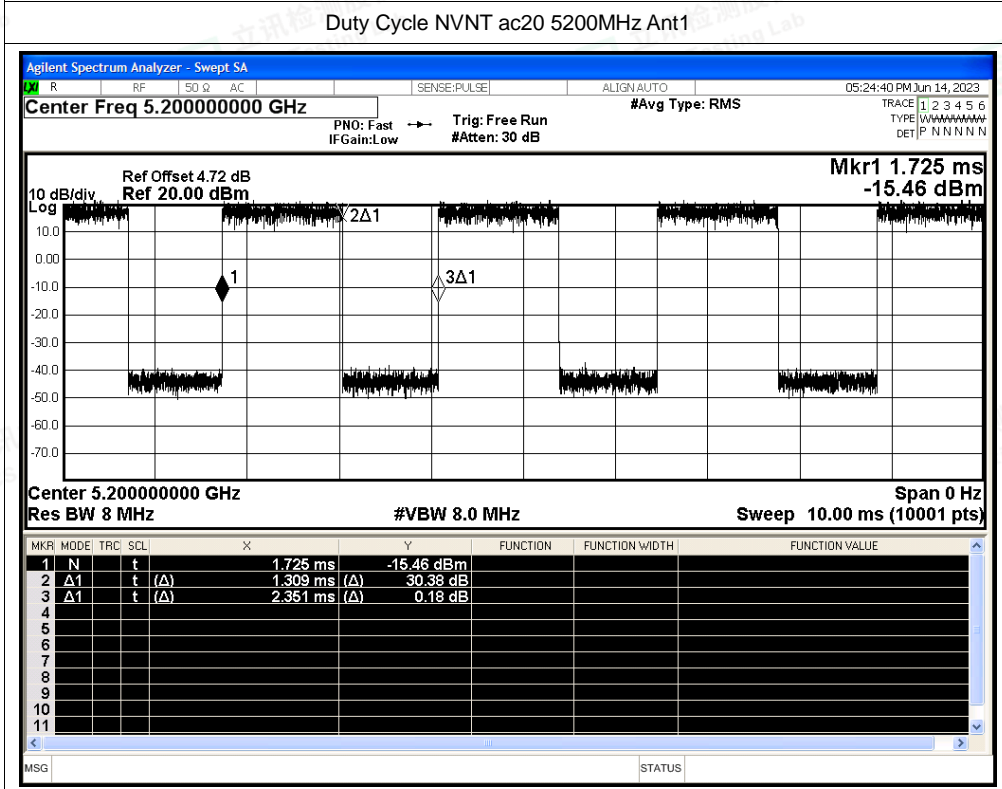




Duty Cycle NVNT ac20 5180MHz Ant1

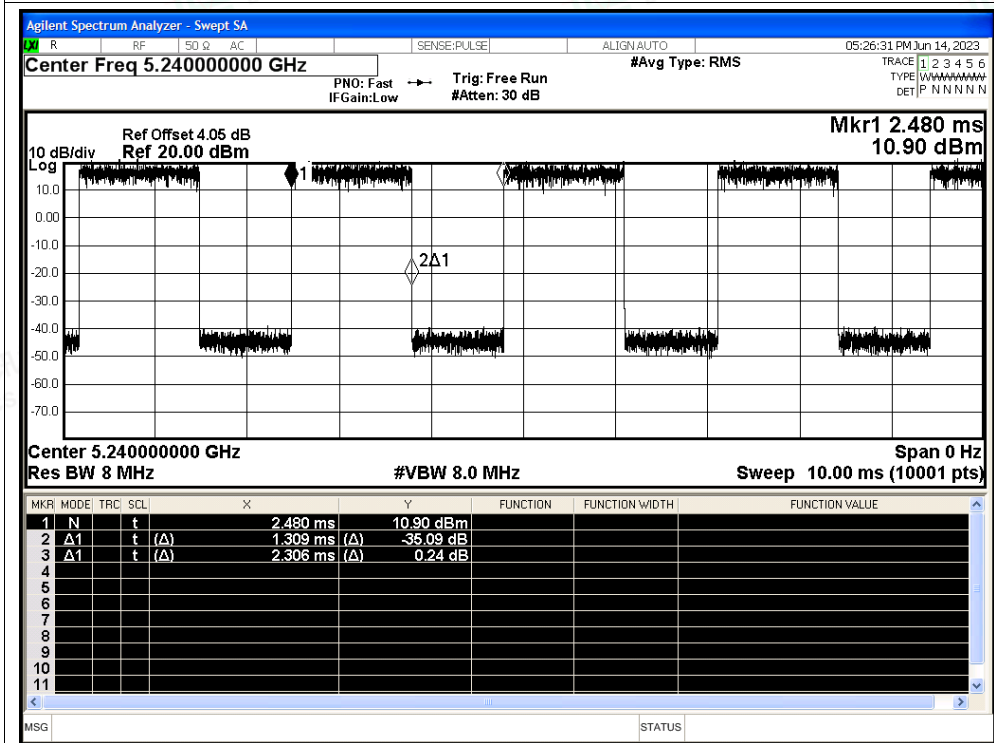


Duty Cycle NVNT ac20 5200MHz Ant1

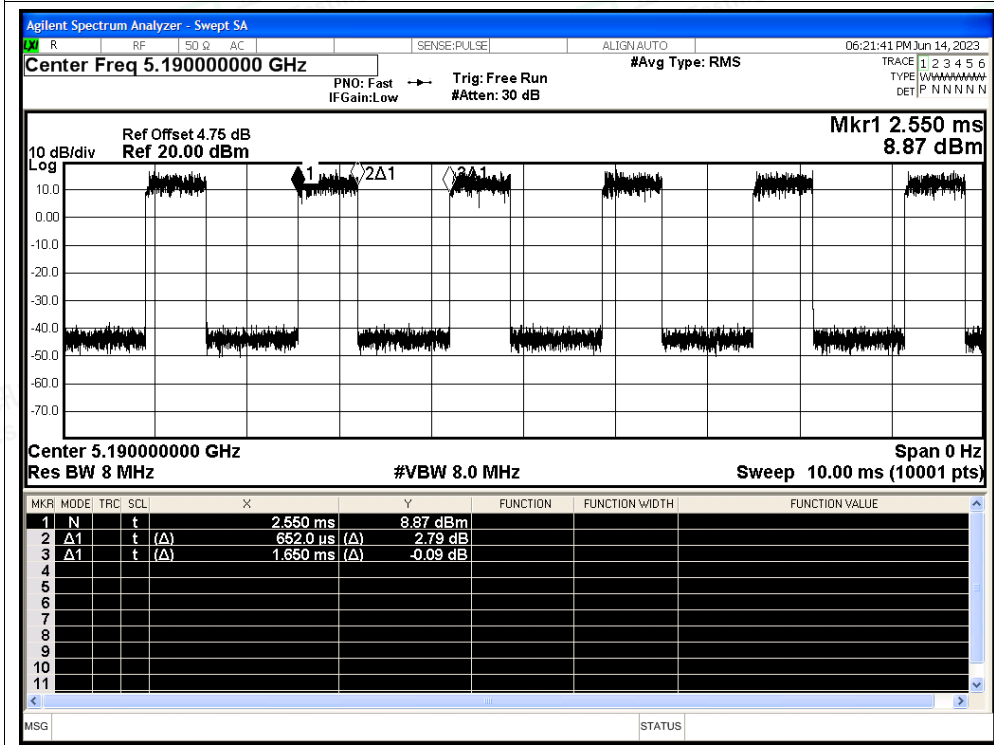




Duty Cycle NVNT ac20 5240MHz Ant1

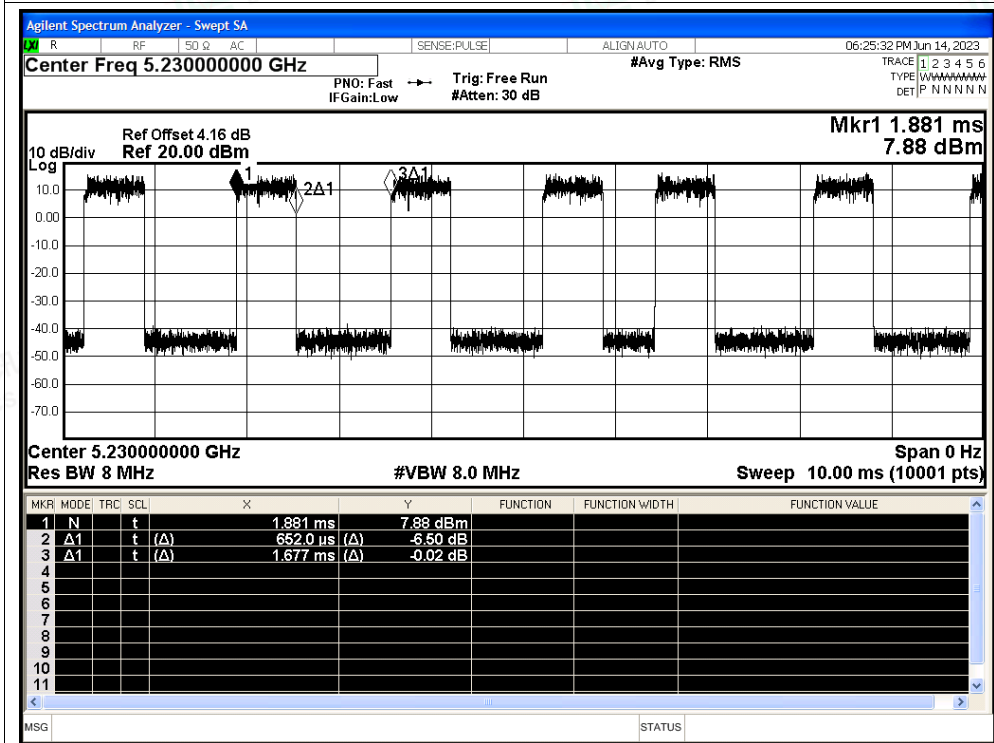


Duty Cycle NVNT ac40 5190MHz Ant1





Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1

