



Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: BlueCash-50

Test Model: BlueCash-50

Environmental Conditions

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





B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.596	>=0.5	Pass
NVNT	a	5200	Ant1	19.535	>=0.5	Pass
NVNT	a	5240	Ant1	19.474	>=0.5	Pass
NVNT	n20	5180	Ant1	19.899	>=0.5	Pass
NVNT	n20	5200	Ant1	19.973	>=0.5	Pass
NVNT	n20	5240	Ant1	19.963	>=0.5	Pass
NVNT	n40	5190	Ant1	39.897	>=0.5	Pass
NVNT	n40	5230	Ant1	39.74	>=0.5	Pass
NVNT	ac20	5180	Ant1	19.859	>=0.5	Pass
NVNT	ac20	5200	Ant1	19.984	>=0.5	Pass
NVNT	ac20	5240	Ant1	19.854	>=0.5	Pass
NVNT	ac40	5190	Ant1	39.711	>=0.5	Pass
NVNT	ac40	5230	Ant1	39.699	>=0.5	Pass
NVNT	ac80	5210	Ant1	79.863	>=0.5	Pass

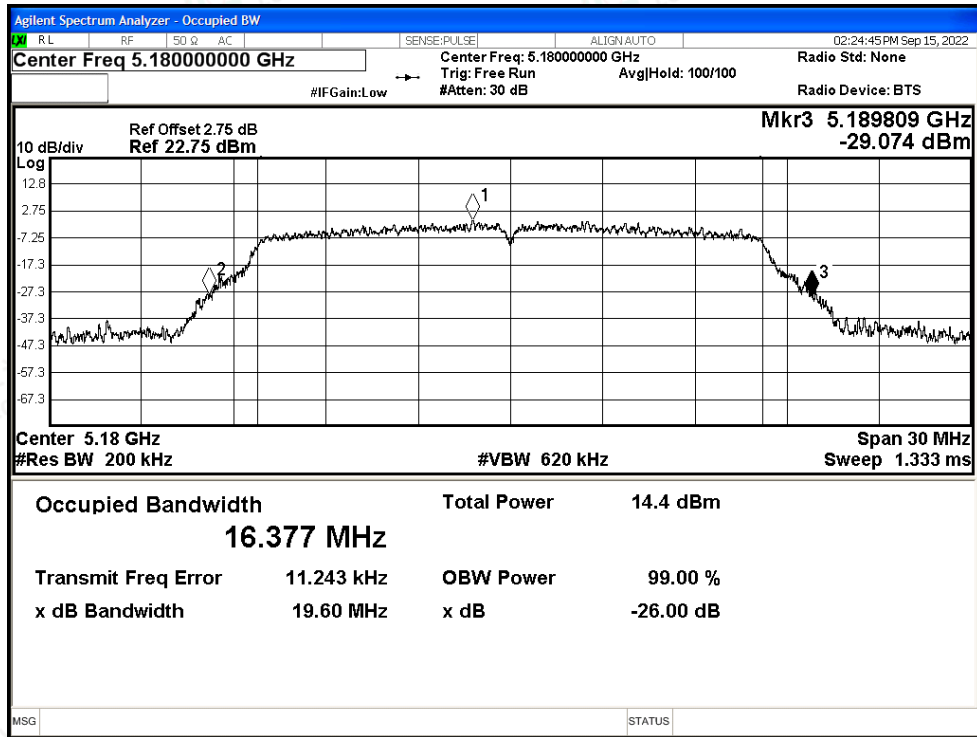


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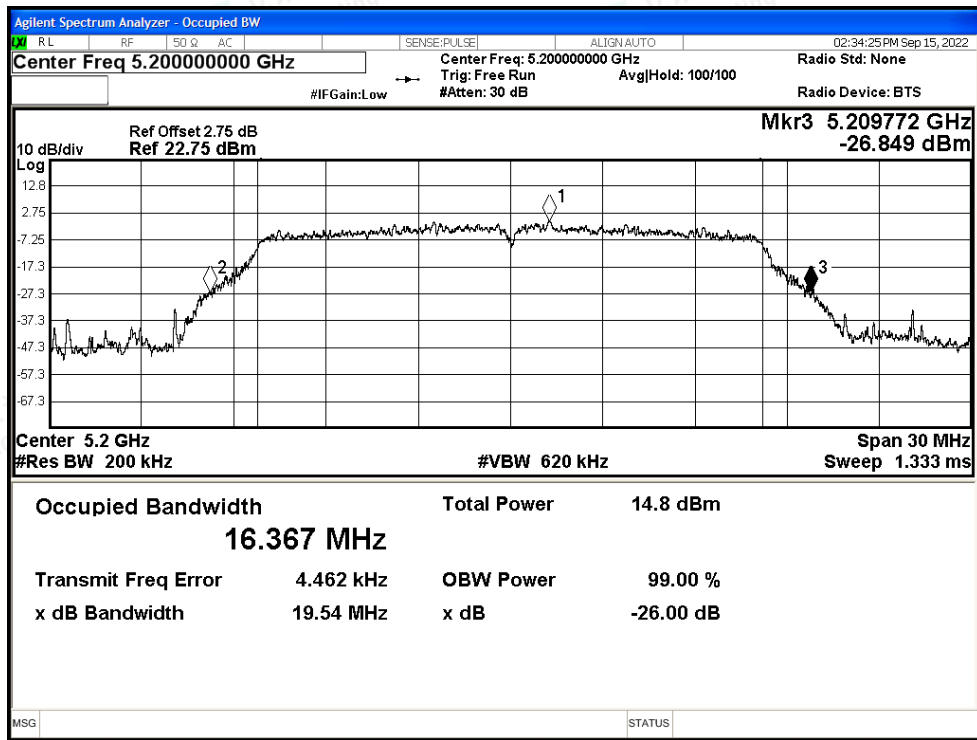


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

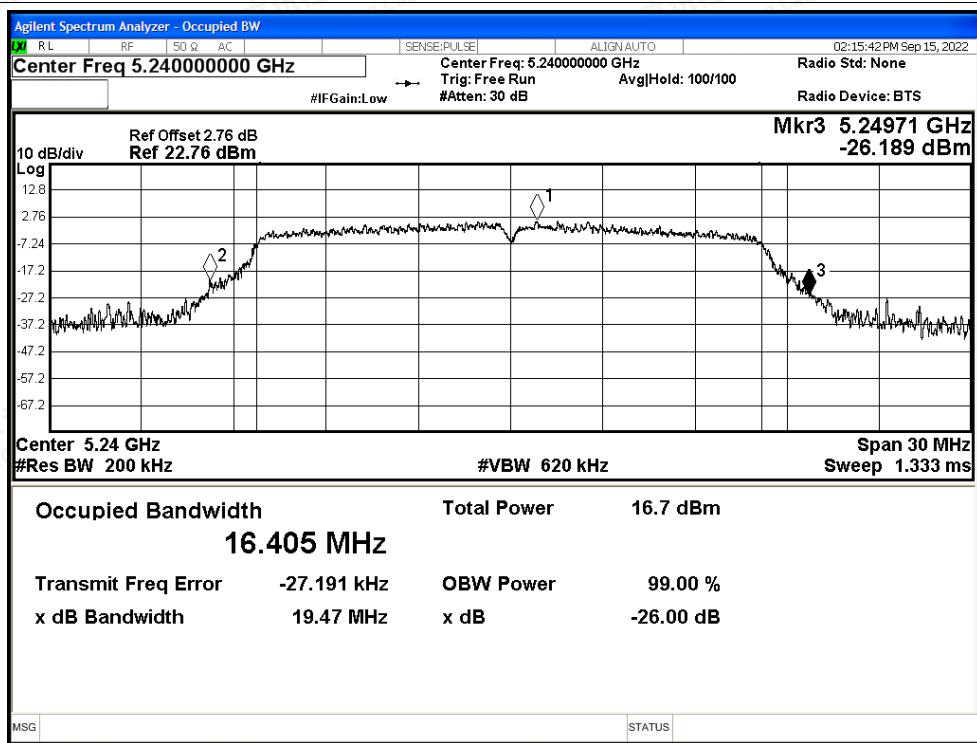


-26dB Bandwidth NVNT a 5200MHz Ant1



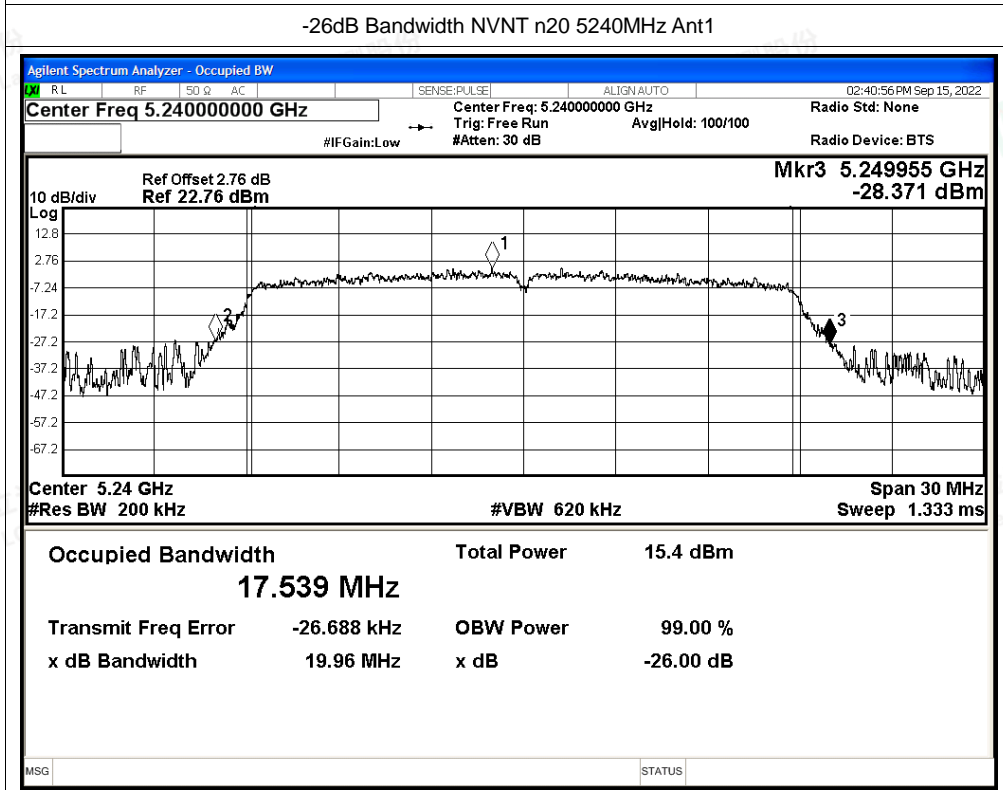
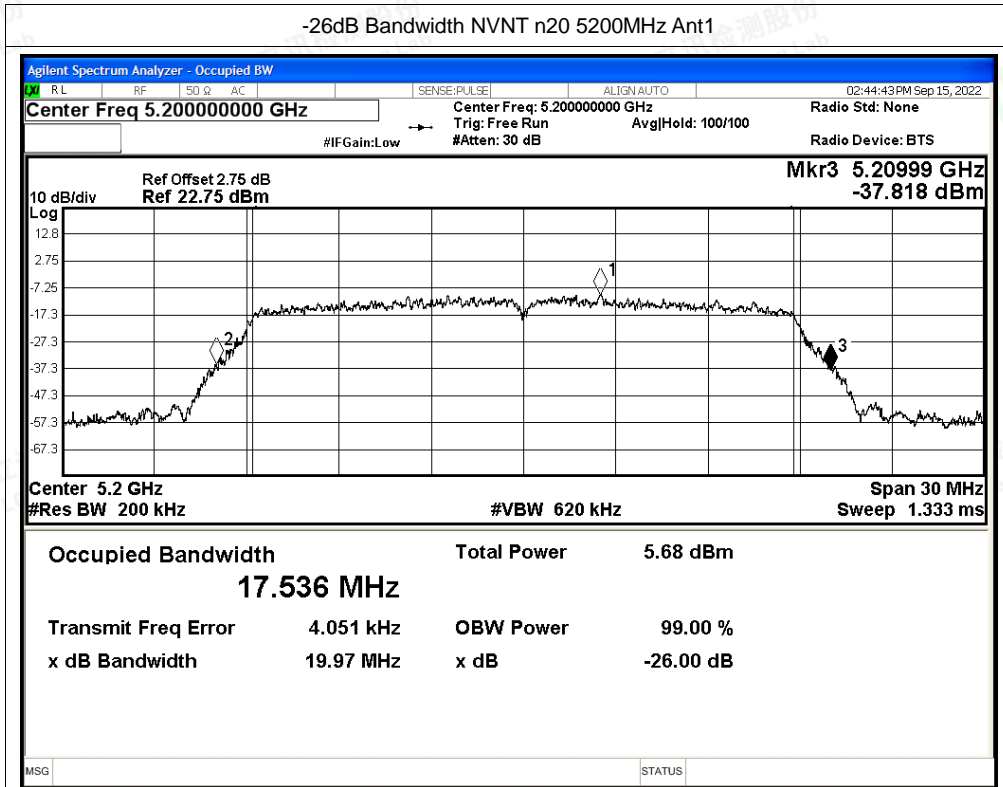


-26dB Bandwidth NVNT a 5240MHz Ant1



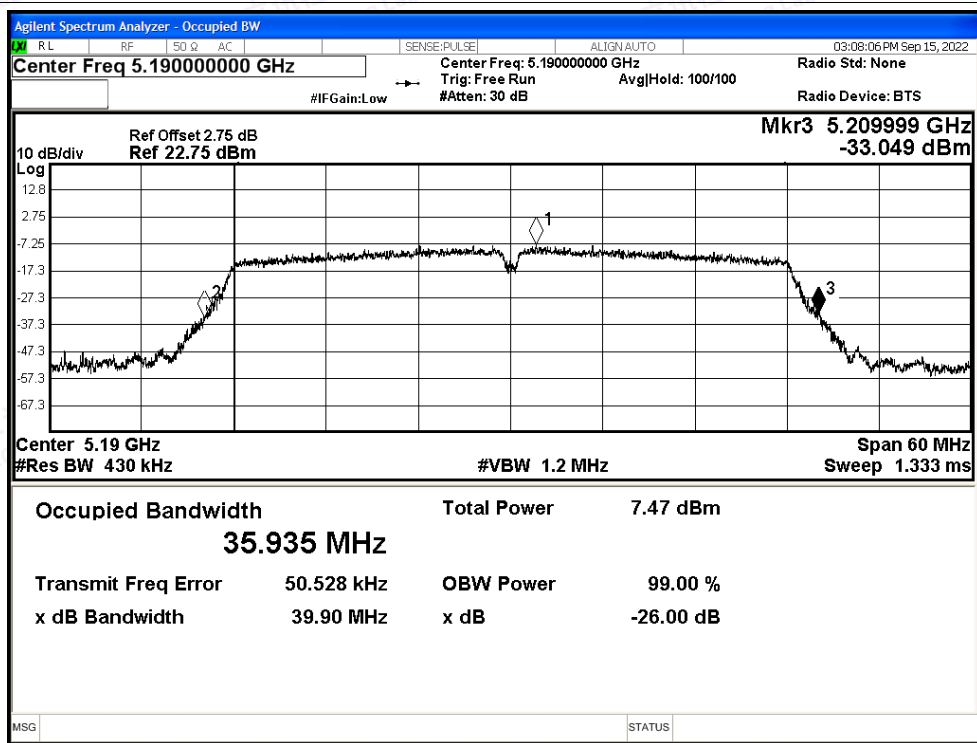
-26dB Bandwidth NVNT n20 5180MHz Ant1



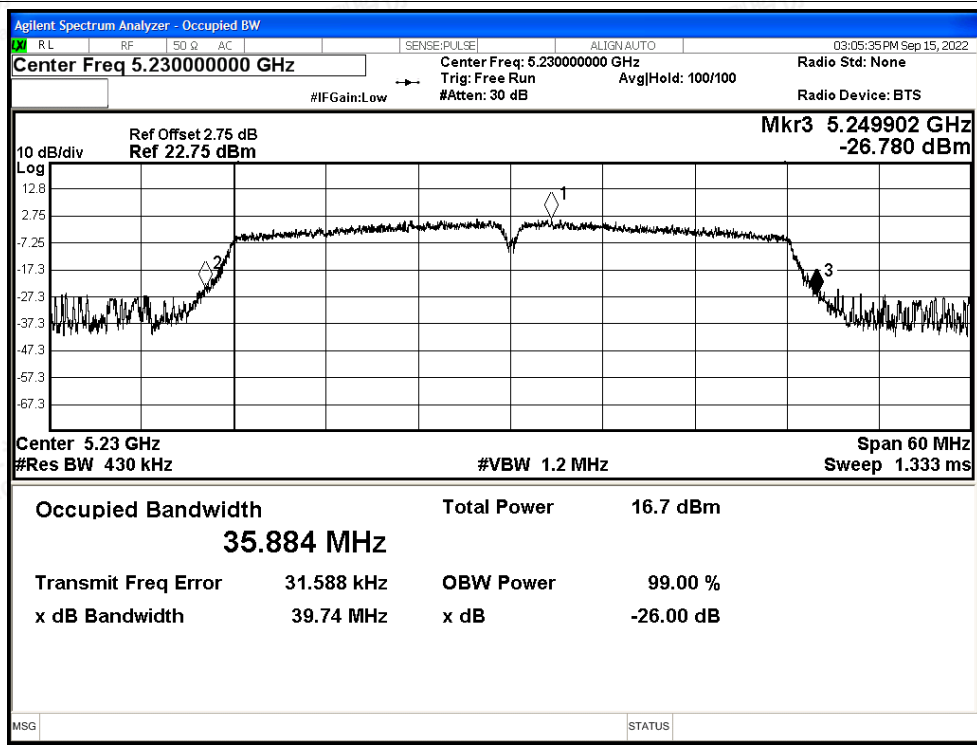




-26dB Bandwidth NVNT n40 5190MHz Ant1

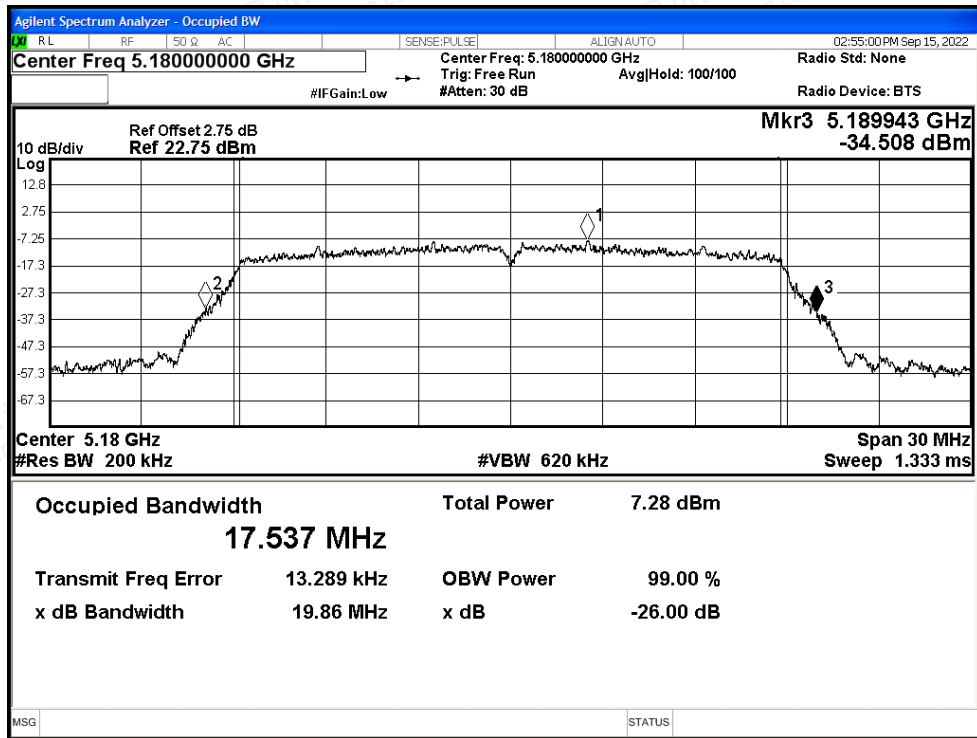


-26dB Bandwidth NVNT n40 5230MHz Ant1

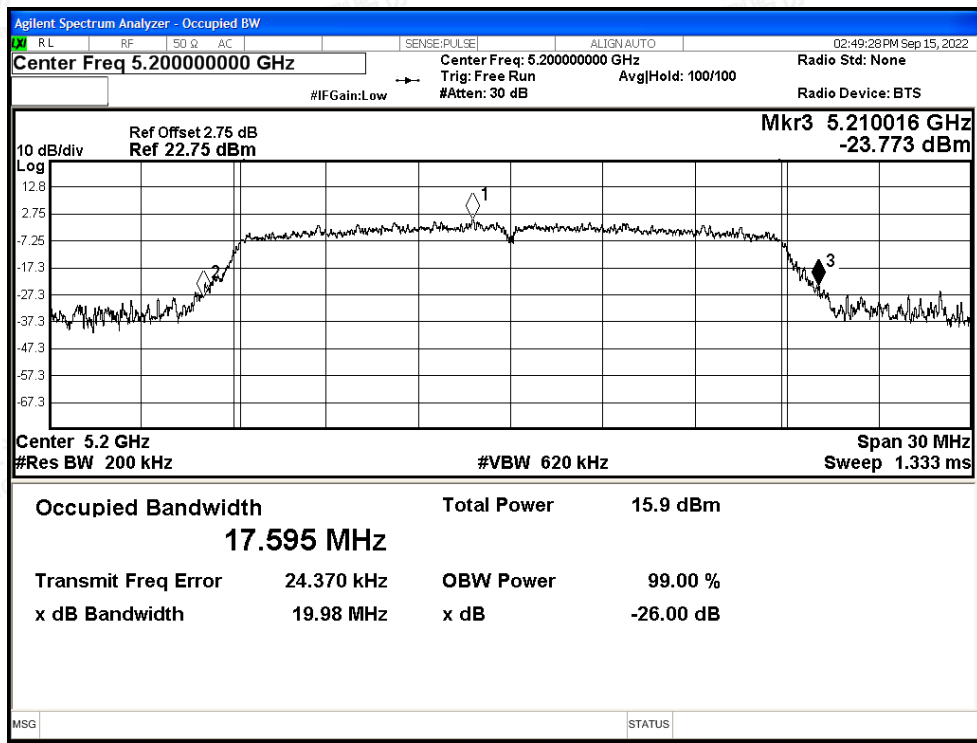




-26dB Bandwidth NVNT ac20 5180MHz Ant1

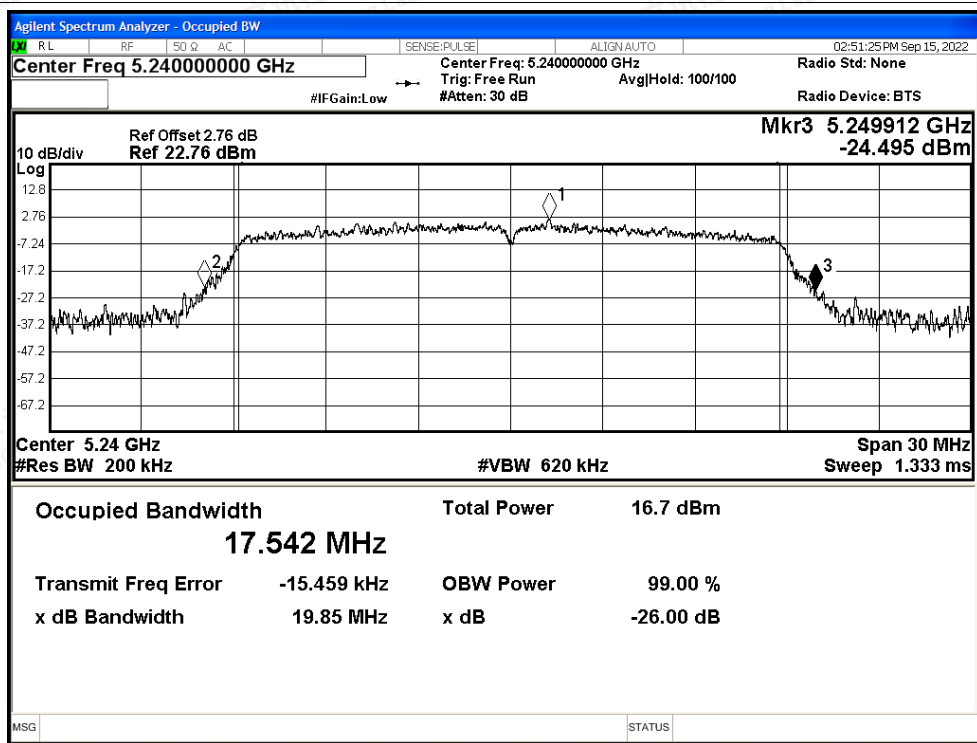


-26dB Bandwidth NVNT ac20 5200MHz Ant1

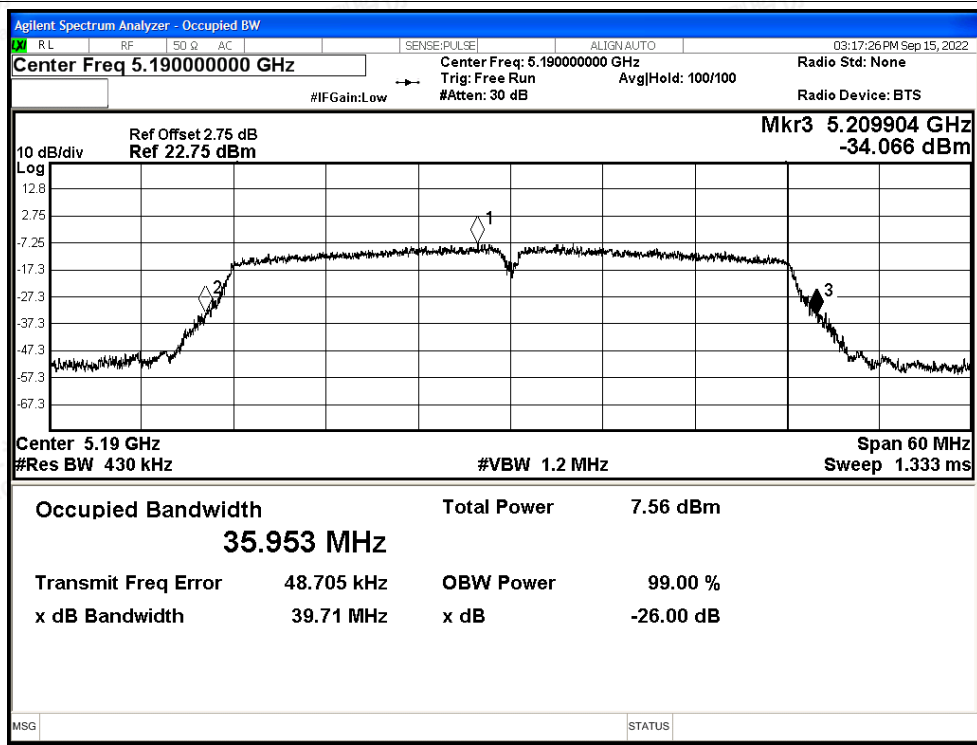




-26dB Bandwidth NVNT ac20 5240MHz Ant1

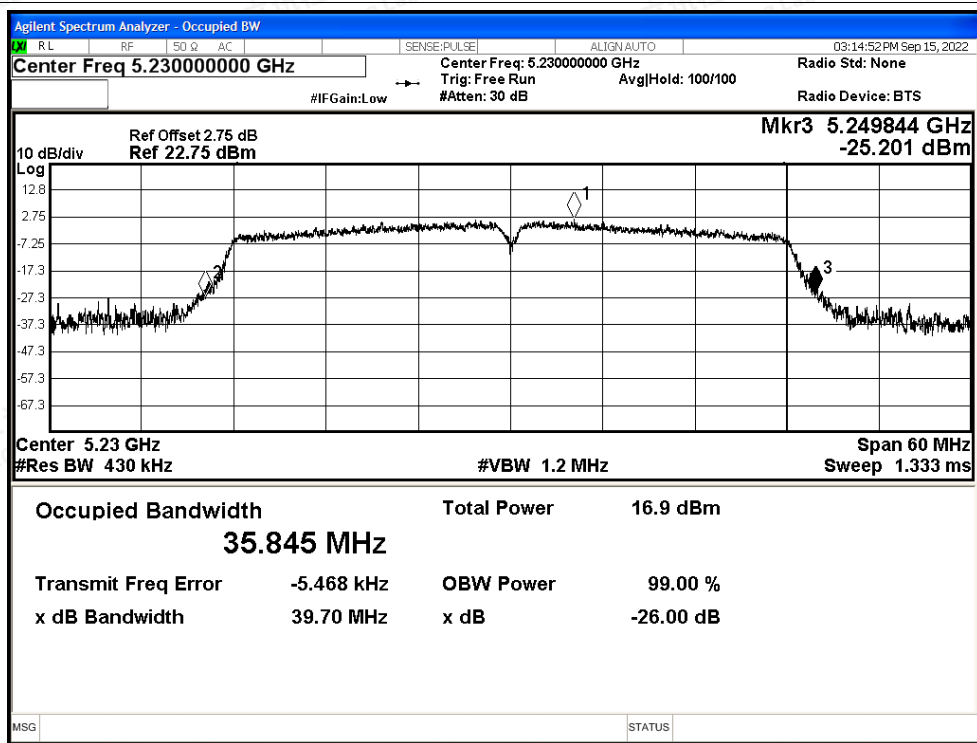


-26dB Bandwidth NVNT ac40 5190MHz Ant1

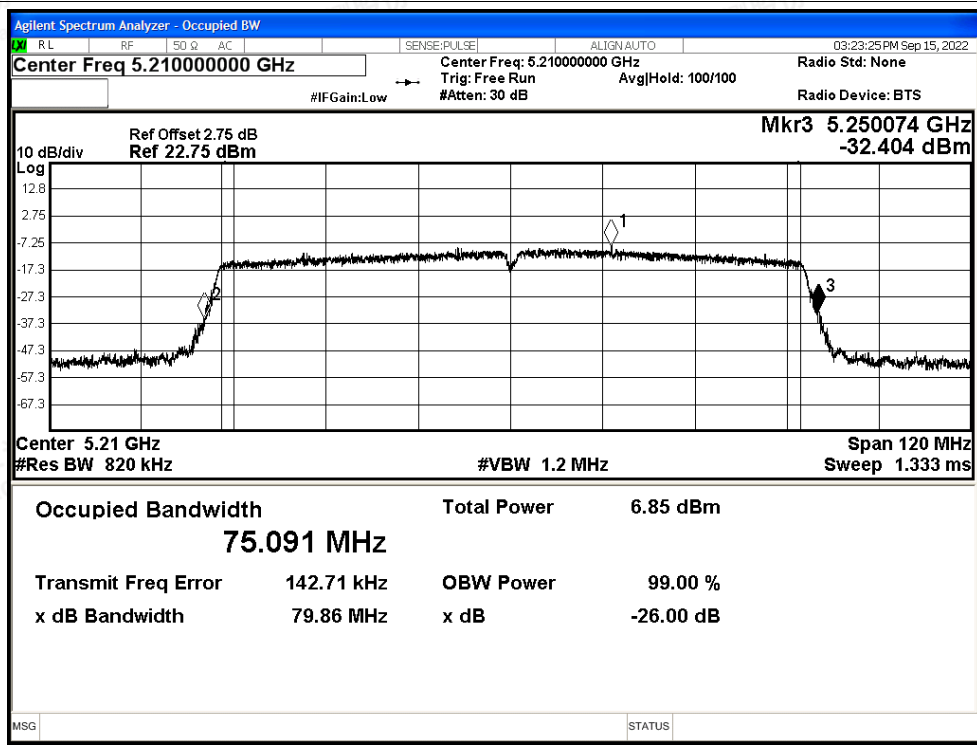




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-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	10.77	0	10.77	24	Pass
NVNT	a	5200	Ant1	10.87	0	10.87	24	Pass
NVNT	a	5240	Ant1	10.66	0	10.66	24	Pass
NVNT	n20	5180	Ant1	10.02	0	10.02	24	Pass
NVNT	n20	5200	Ant1	10.2	0	10.2	24	Pass
NVNT	n20	5240	Ant1	9.78	0	9.78	24	Pass
NVNT	n40	5190	Ant1	9.96	0	9.96	24	Pass
NVNT	n40	5230	Ant1	10.02	0	10.02	24	Pass
NVNT	ac20	5180	Ant1	10.15	0	10.15	24	Pass
NVNT	ac20	5200	Ant1	10.23	0	10.23	24	Pass
NVNT	ac20	5240	Ant1	9.99	0	9.99	24	Pass
NVNT	ac40	5190	Ant1	9.8	0	9.8	24	Pass
NVNT	ac40	5230	Ant1	10.15	0	10.15	24	Pass
NVNT	ac80	5210	Ant1	9.77	0	9.77	24	Pass



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.25	0	-0.25	11	Pass
NVNT	a	5200	Ant1	0.37	0	0.37	11	Pass
NVNT	a	5240	Ant1	-1.07	0	-1.07	11	Pass
NVNT	n20	5180	Ant1	-2.31	0	-2.31	11	Pass
NVNT	n20	5200	Ant1	-3.66	0	-3.66	11	Pass
NVNT	n20	5240	Ant1	-2.55	0	-2.55	11	Pass
NVNT	n40	5190	Ant1	-5.6	0	-5.6	11	Pass
NVNT	n40	5230	Ant1	-4.64	0	-4.64	11	Pass
NVNT	ac20	5180	Ant1	-2.66	0	-2.66	11	Pass
NVNT	ac20	5200	Ant1	-1.77	0	-1.77	11	Pass
NVNT	ac20	5240	Ant1	-1.34	0	-1.34	11	Pass
NVNT	ac40	5190	Ant1	-6.42	0	-6.42	11	Pass
NVNT	ac40	5230	Ant1	-5.61	0	-5.61	11	Pass
NVNT	ac80	5210	Ant1	-20.14	0	-20.14	11	Pass

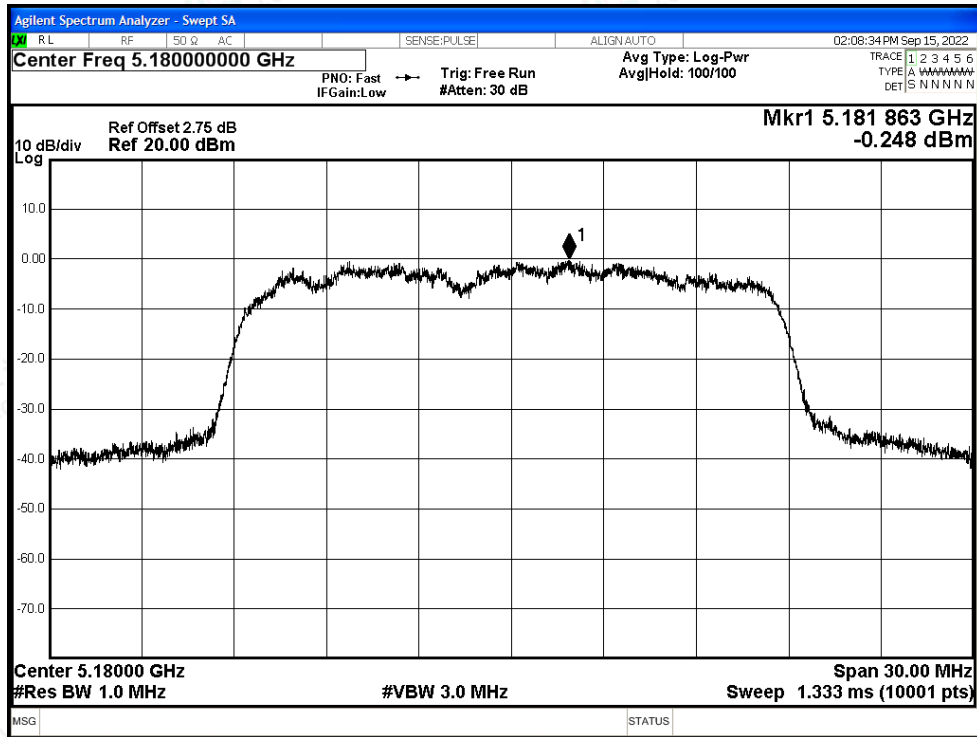


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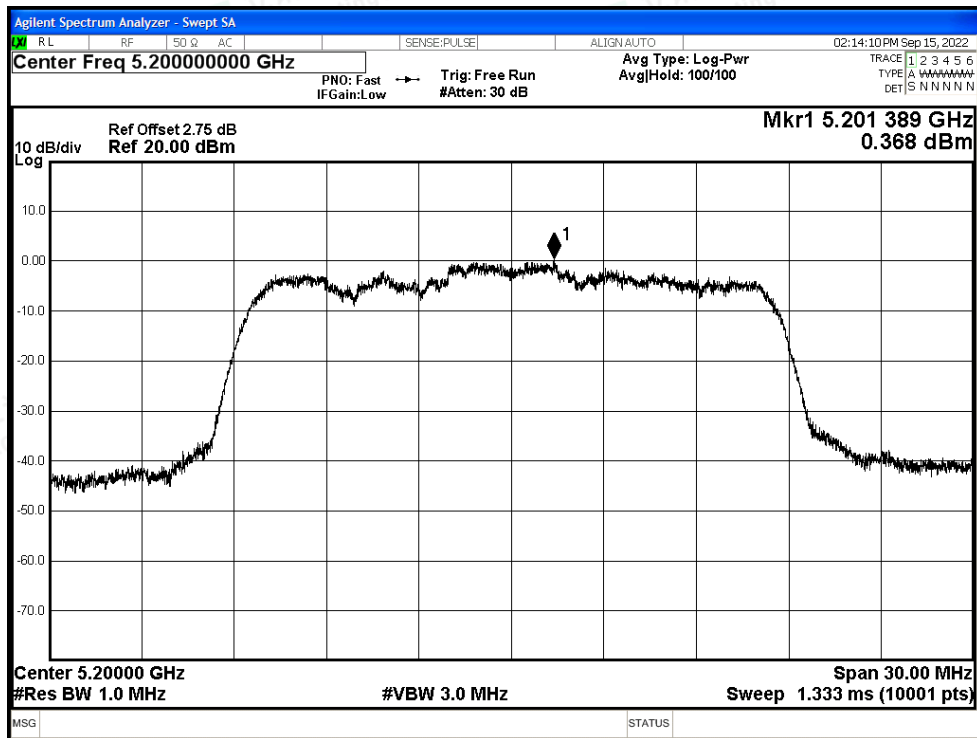


Test Graphs

PSD NVNT a 5180MHz Ant1

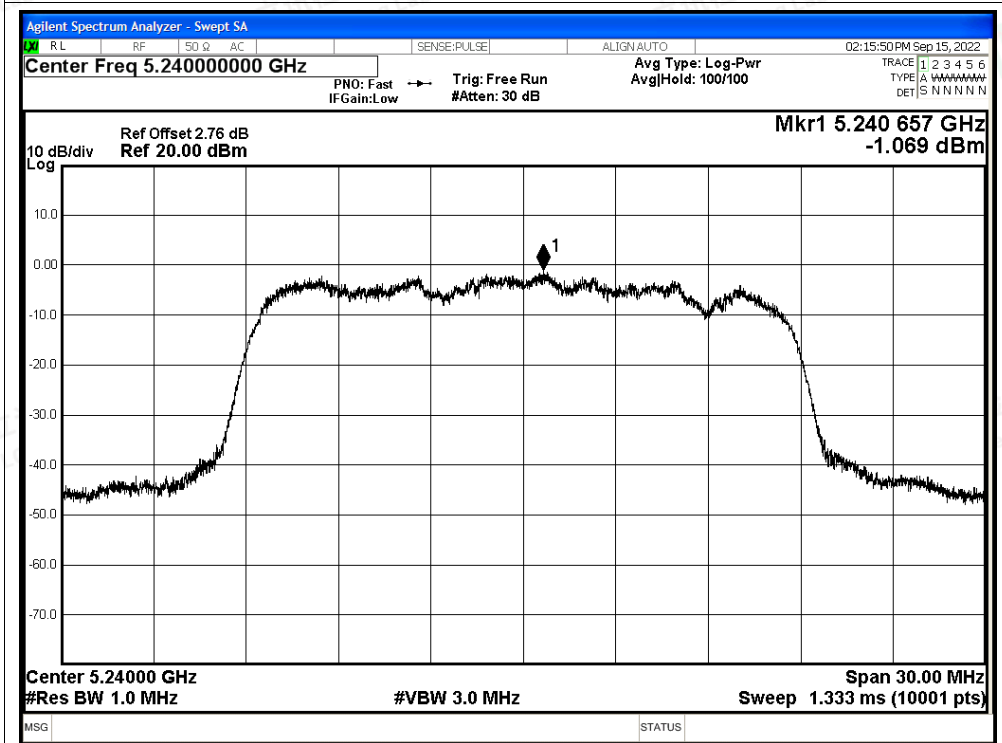


PSD NVNT a 5200MHz Ant1

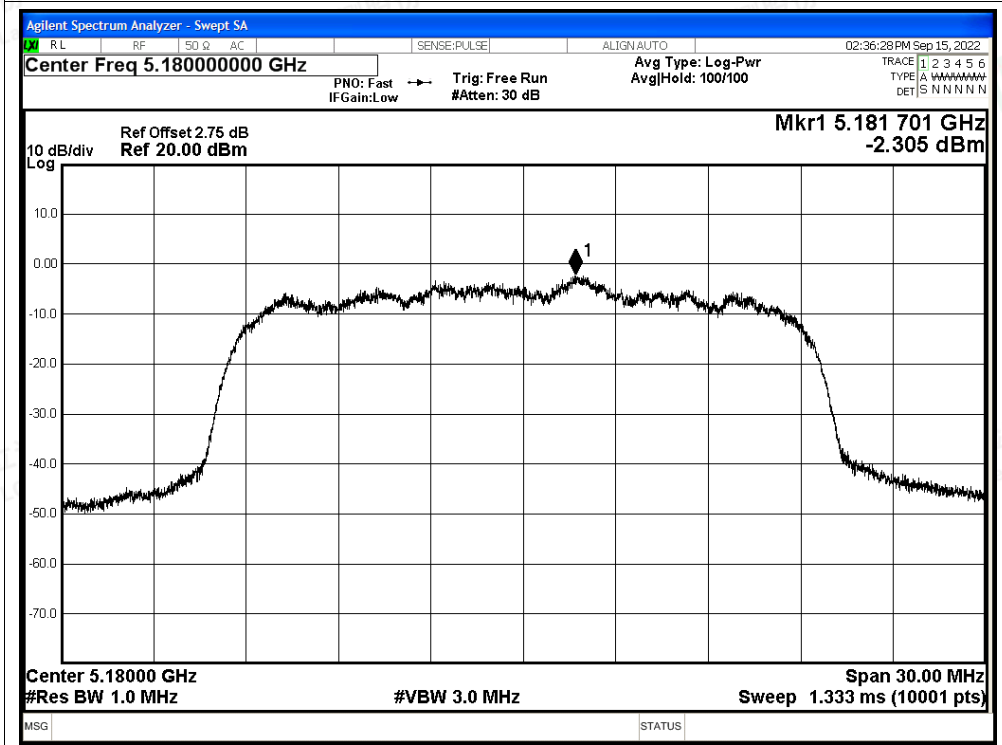


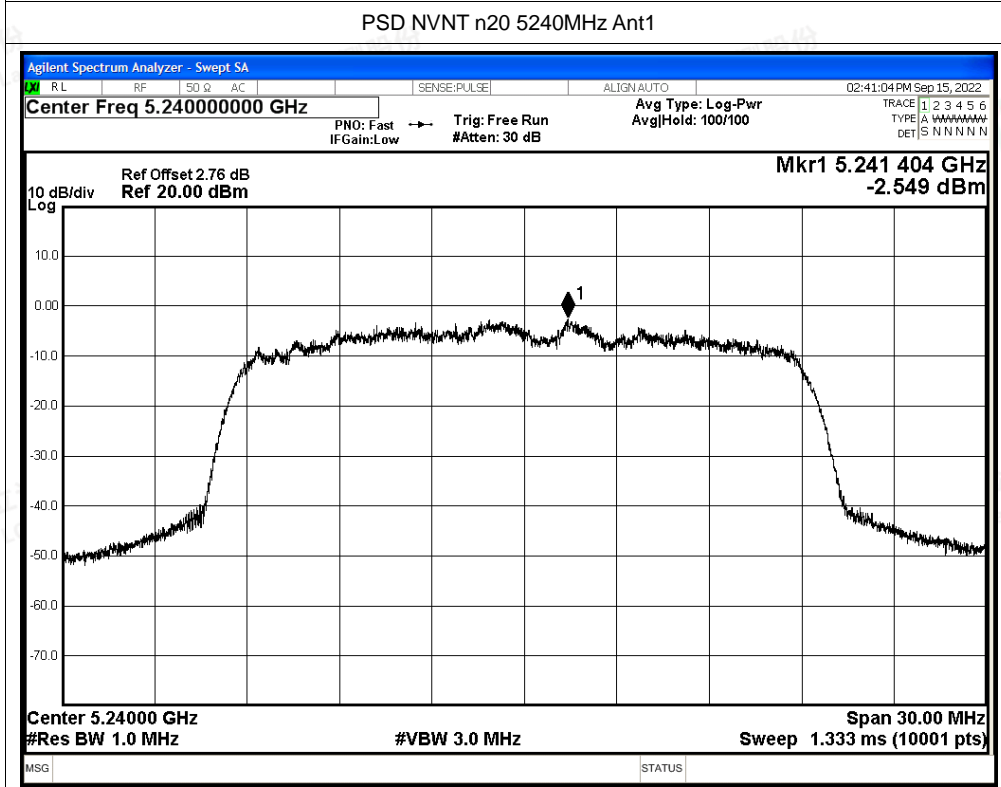
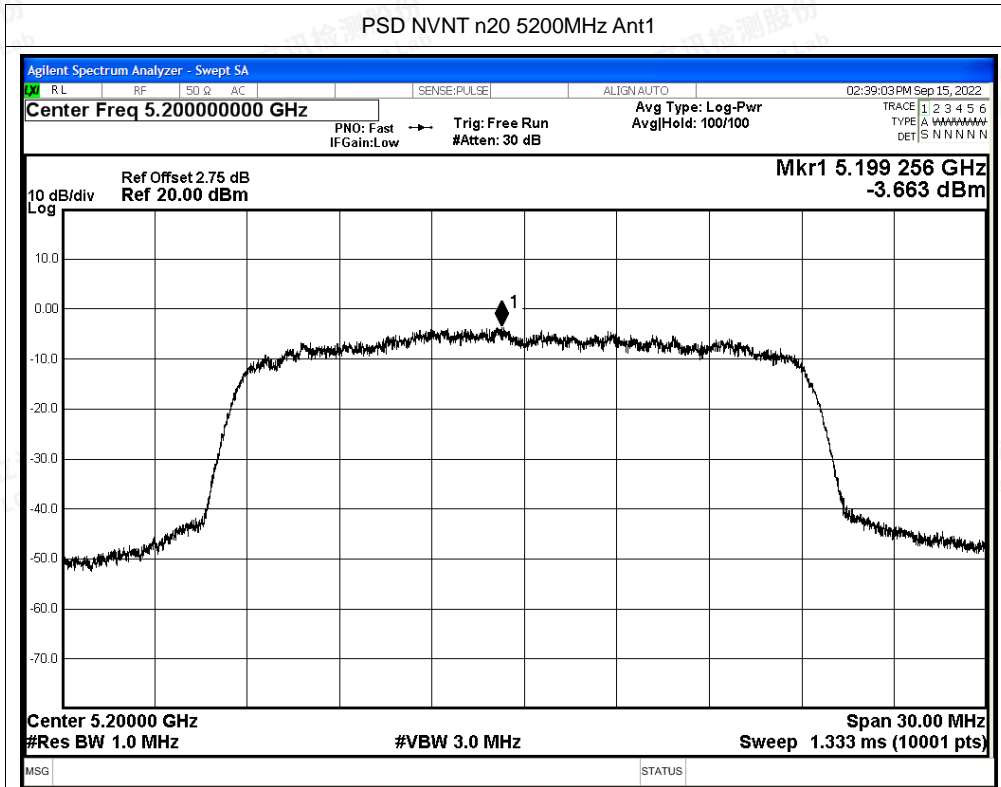


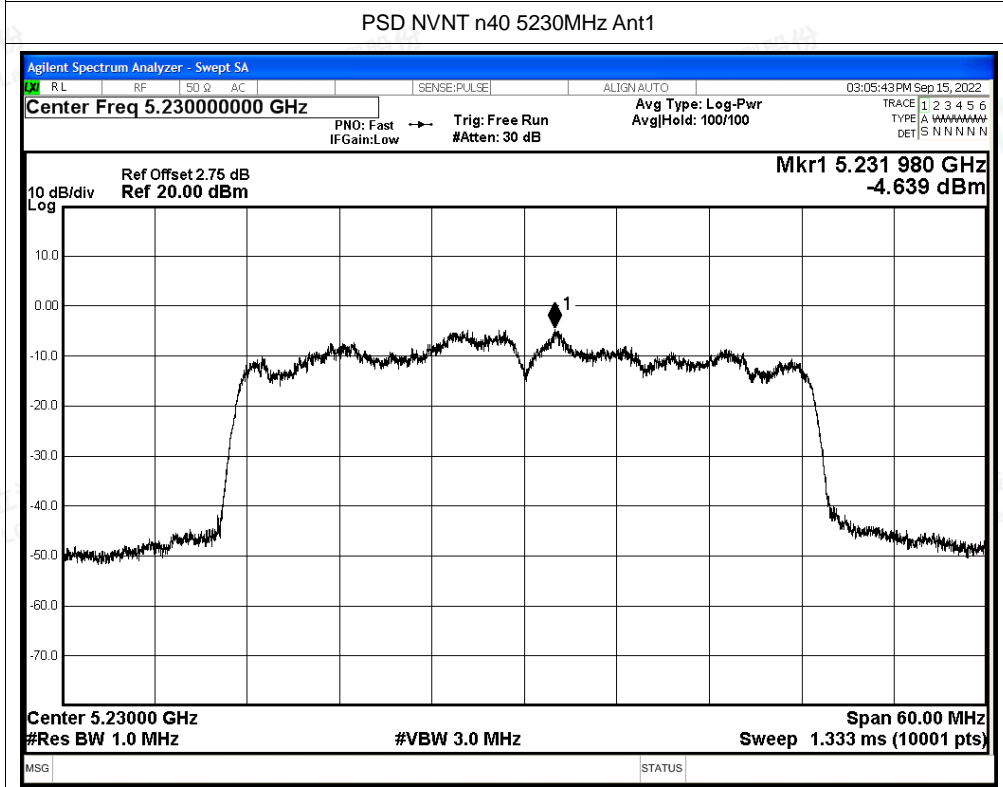
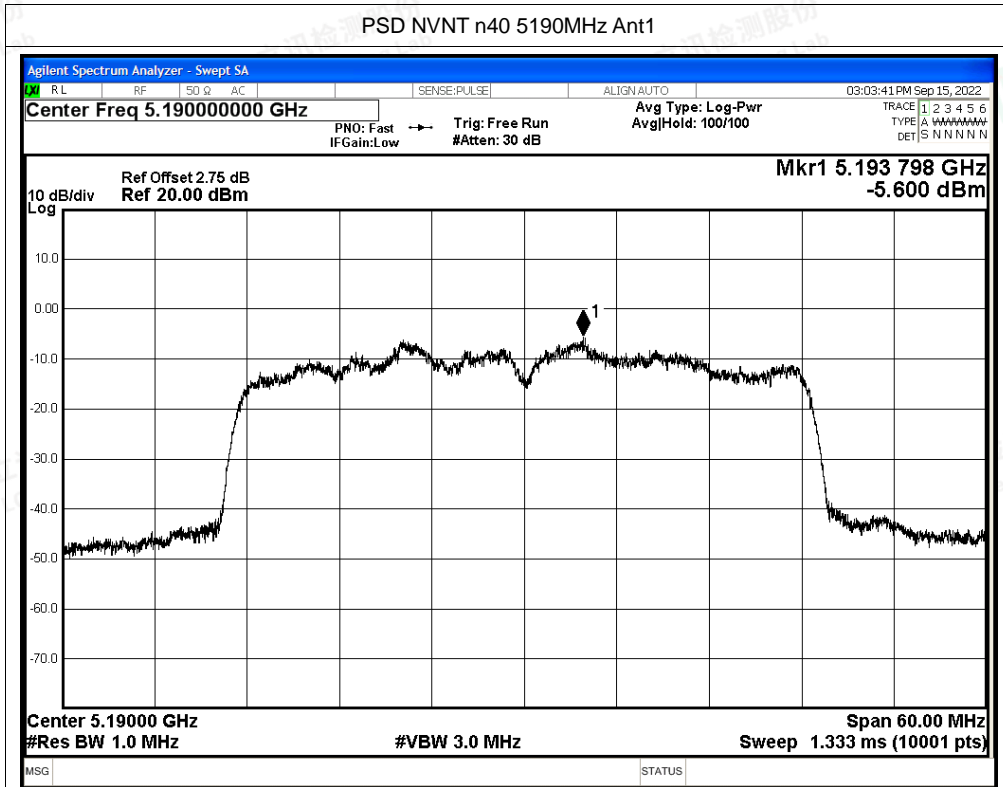
PSD NVNT a 5240MHz Ant1

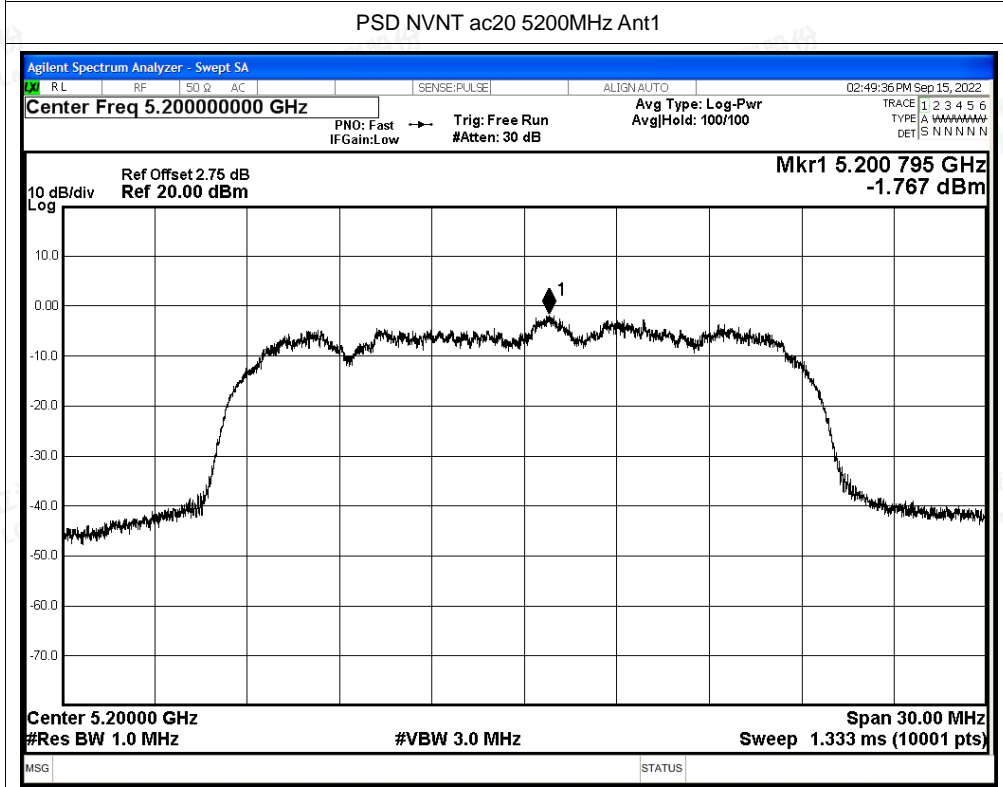
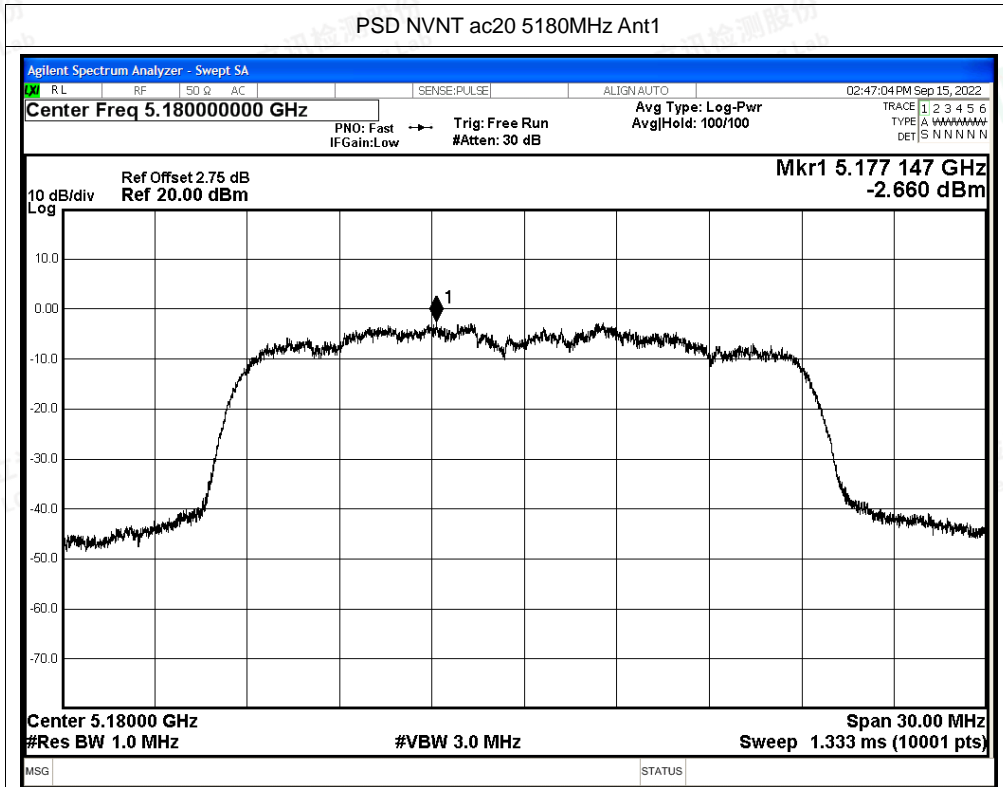


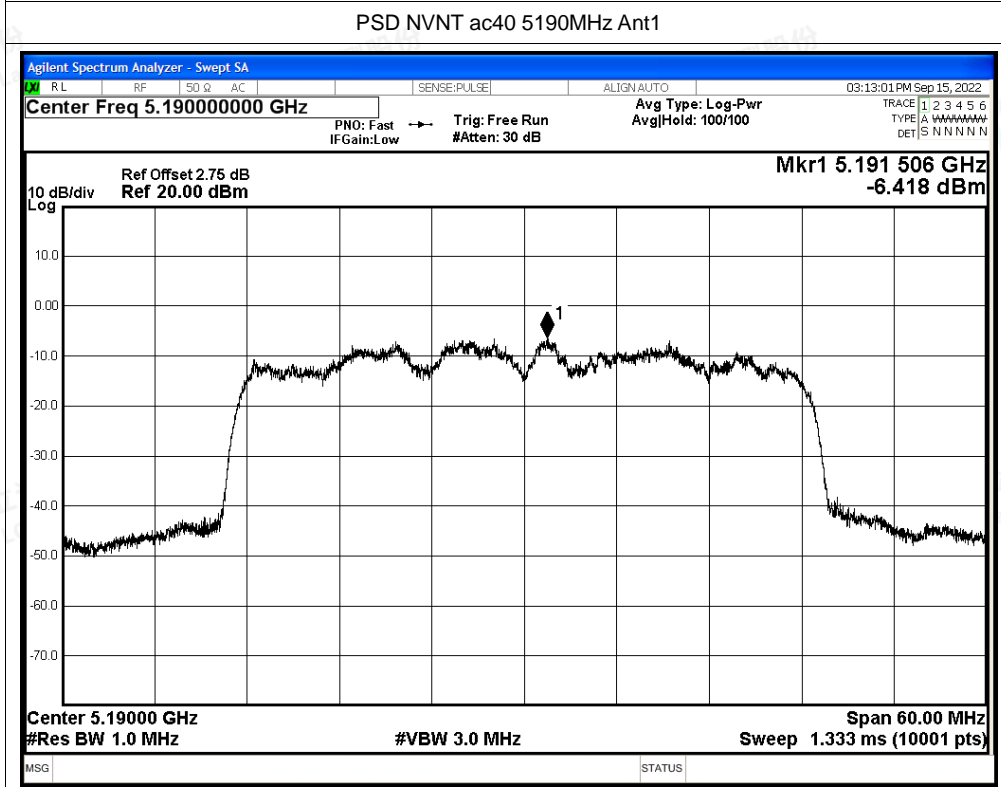
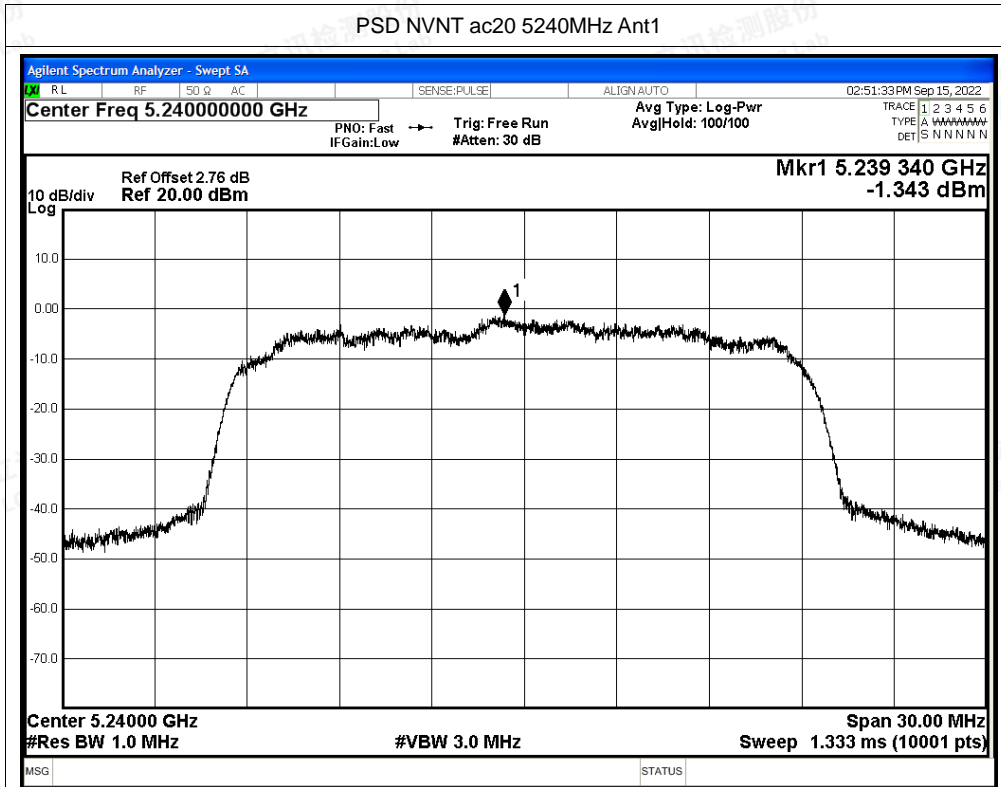
PSD NVNT n20 5180MHz Ant1





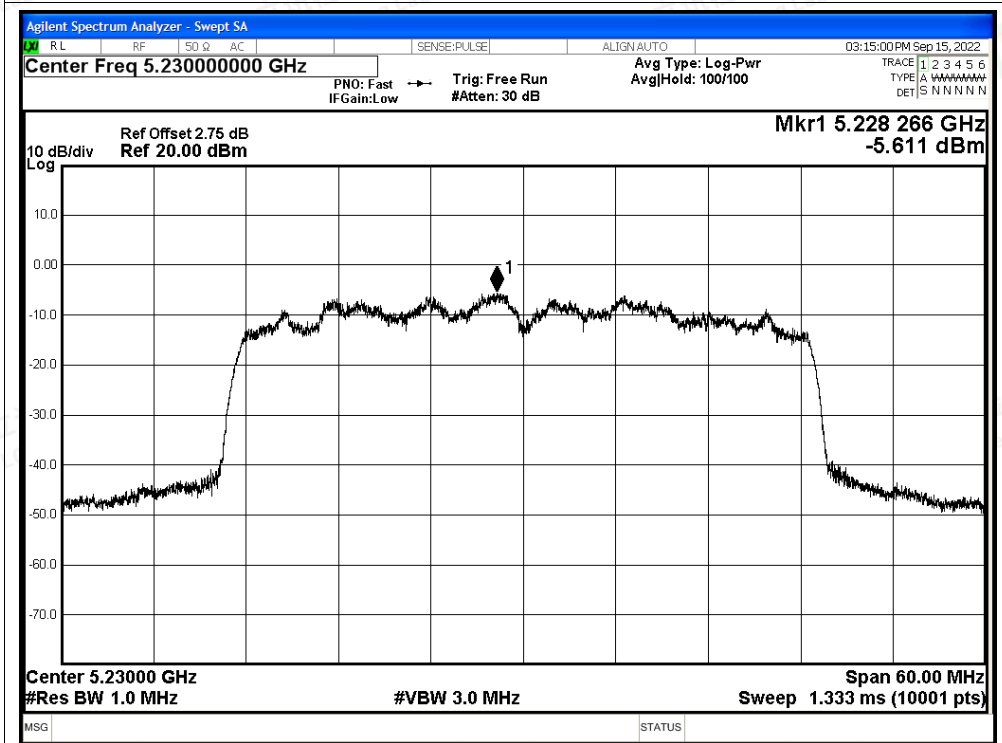




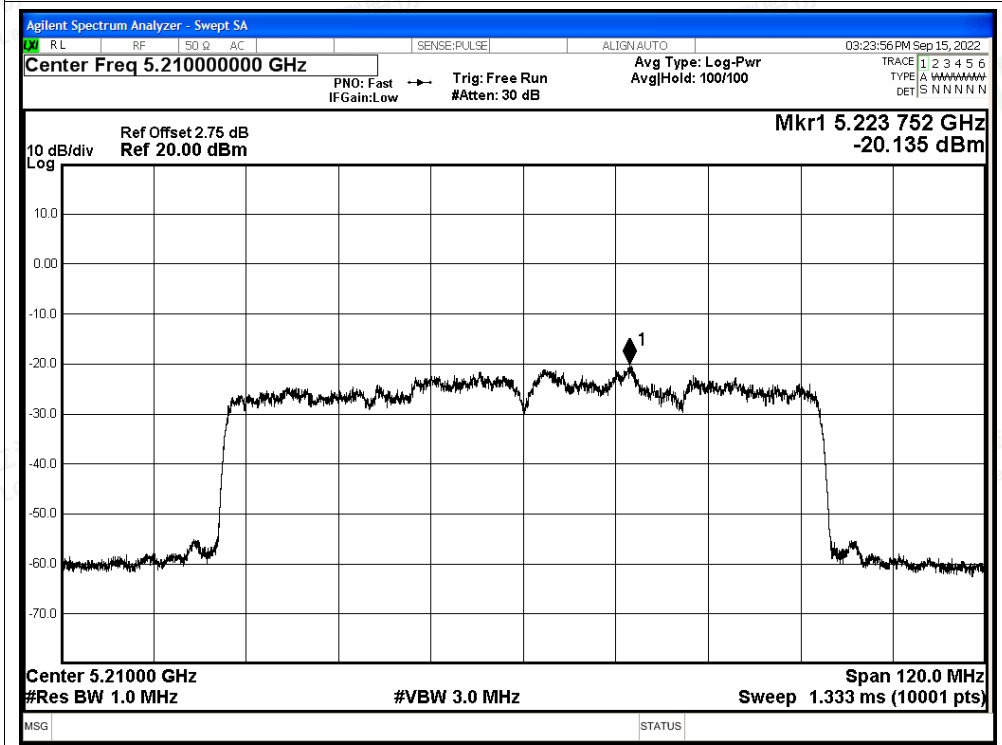




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz 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
NVHT	a	5180	Ant1	4500	-49.07	2	48.16	Peak	68.2	Pass
NVHT	a	5180	Ant1	4500	-59.78	2	37.45	Average	54	Pass
NVHT	a	5180	Ant1	5098.5	-44.01	2	53.22	Peak	68.2	Pass
NVHT	a	5180	Ant1	5138.4	-57.7	2	39.53	Average	54	Pass
NVHT	a	5180	Ant1	5150	-48.08	2	49.15	Peak	68.2	Pass
NVHT	a	5180	Ant1	5150	-57.83	2	39.4	Average	54	Pass
NVHT	a	5240	Ant1	5350	-47.97	2	49.26	Peak	68.2	Pass
NVHT	a	5240	Ant1	5350	-59.67	2	37.56	Average	54	Pass
NVHT	a	5240	Ant1	5431.44	-47.43	2	49.8	Peak	68.2	Pass
NVHT	a	5240	Ant1	5368.32	-59.11	2	38.12	Average	54	Pass
NVHT	a	5240	Ant1	5460	-49.2	2	48.03	Peak	68.2	Pass
NVHT	a	5240	Ant1	5460	-59.57	2	37.66	Average	54	Pass
NVHT	n20	5180	Ant1	4500	-49.44	2	47.79	Peak	68.2	Pass
NVHT	n20	5180	Ant1	4500	-59.65	2	37.58	Average	54	Pass
NVHT	n20	5180	Ant1	4936.1	-44.81	2	52.42	Peak	68.2	Pass
NVHT	n20	5180	Ant1	5111.1	-57.72	2	39.51	Average	54	Pass
NVHT	n20	5180	Ant1	5150	-48.45	2	48.78	Peak	68.2	Pass
NVHT	n20	5180	Ant1	5150	-57.76	2	39.47	Average	54	Pass
NVHT	n20	5240	Ant1	5350	-49.84	2	47.39	Peak	68.2	Pass
NVHT	n20	5240	Ant1	5350	-59.43	2	37.8	Average	54	Pass
NVHT	n20	5240	Ant1	5430.72	-47.41	2	49.82	Peak	68.2	Pass
NVHT	n20	5240	Ant1	5415.36	-59.14	2	38.09	Average	54	Pass
NVHT	n20	5240	Ant1	5460	-50.19	2	47.04	Peak	68.2	Pass
NVHT	n20	5240	Ant1	5460	-59.48	2	37.75	Average	54	Pass
NVHT	n40	5190	Ant1	4500	-50.47	2	46.76	Peak	68.2	Pass
NVHT	n40	5190	Ant1	4500	-55.37	2	41.86	Average	54	Pass
NVHT	n40	5190	Ant1	5108.09	-45.85	2	51.38	Peak	68.2	Pass
NVHT	n40	5190	Ant1	5141.67	-51.65	2	45.58	Average	54	Pass
NVHT	n40	5190	Ant1	5150	-49.32	2	47.91	Peak	68.2	Pass
NVHT	n40	5190	Ant1	5150	-53.97	2	43.26	Average	54	Pass
NVHT	n40	5230	Ant1	5350	-49.67	2	47.56	Peak	68.2	Pass
NVHT	n40	5230	Ant1	5350	-54.58	2	42.65	Average	54	Pass
NVHT	n40	5230	Ant1	5441.37	-46.9	2	50.33	Peak	68.2	Pass
NVHT	n40	5230	Ant1	5458.11	-49.87	2	47.36	Average	54	Pass
NVHT	n40	5230	Ant1	5460	-50.24	2	46.99	Peak	68.2	Pass
NVHT	n40	5230	Ant1	5460	-53.61	2	43.62	Average	54	Pass
NVHT	ac20	5180	Ant1	4500	-50.22	2	47.01	Peak	68.2	Pass





NVHT	ac20	5180	Ant1	4500	-59.56	2	37.67	Average	54	Pass
NVHT	ac20	5180	Ant1	5146.1	-45.99	2	51.24	Peak	68.2	Pass
NVHT	ac20	5180	Ant1	5102.7	-57.75	2	39.48	Average	54	Pass
NVHT	ac20	5180	Ant1	5150	-47.93	2	49.3	Peak	68.2	Pass
NVHT	ac20	5180	Ant1	5150	-57.88	2	39.35	Average	54	Pass
NVHT	ac20	5240	Ant1	5350	-50.55	2	46.68	Peak	68.2	Pass
NVHT	ac20	5240	Ant1	5350	-59.53	2	37.7	Average	54	Pass
NVHT	ac20	5240	Ant1	5430.96	-47.29	2	49.94	Peak	68.2	Pass
NVHT	ac20	5240	Ant1	5370	-59.17	2	38.06	Average	54	Pass
NVHT	ac20	5240	Ant1	5460	-50.69	2	46.54	Peak	68.2	Pass
NVHT	ac20	5240	Ant1	5460	-59.35	2	37.88	Average	54	Pass
NVHT	ac40	5190	Ant1	4500	-49.25	2	47.98	Peak	68.2	Pass
NVHT	ac40	5190	Ant1	4500	-54.45	2	42.78	Average	54	Pass
NVHT	ac40	5190	Ant1	5099.33	-46.35	2	50.88	Peak	68.2	Pass
NVHT	ac40	5190	Ant1	4997.86	-49.06	2	48.17	Average	54	Pass
NVHT	ac40	5190	Ant1	5150	-48.13	2	49.1	Peak	68.2	Pass
NVHT	ac40	5190	Ant1	5150	-51.93	2	45.3	Average	54	Pass
NVHT	ac40	5230	Ant1	5350	-49.32	2	47.91	Peak	68.2	Pass
NVHT	ac40	5230	Ant1	5350	-59.17	2	38.06	Average	54	Pass
NVHT	ac40	5230	Ant1	5366.58	-47.08	2	50.15	Peak	68.2	Pass
NVHT	ac40	5230	Ant1	5426.52	-58.87	2	38.36	Average	54	Pass
NVHT	ac40	5230	Ant1	5460	-49.02	2	48.21	Peak	68.2	Pass
NVHT	ac40	5230	Ant1	5460	-59.19	2	38.04	Average	54	Pass
NVHT	ac80	5210	Ant1	5350	-49.45	2	47.78	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	5350	-58.48	2	38.75	Average	54	Pass
NVHT	ac80	5210	Ant1	5377.83	-46.37	2	50.86	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	5408.19	-57.62	2	39.61	Average	54	Pass
NVHT	ac80	5210	Ant1	5460	-49.79	2	47.44	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	5460	-58.12	2	39.11	Average	54	Pass
NVHT	ac80	5210	Ant1	4500	-49.4	2	47.83	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	4500	-59.4	2	37.83	Average	54	Pass
NVHT	ac80	5210	Ant1	5137.53	-46.24	2	50.99	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	5149.38	-56.32	2	40.91	Average	54	Pass
NVHT	ac80	5210	Ant1	5150	-46.92	2	50.31	Peak	68.2	Pass
NVHT	ac80	5210	Ant1	5150	-56.53	2	40.7	Average	54	Pass

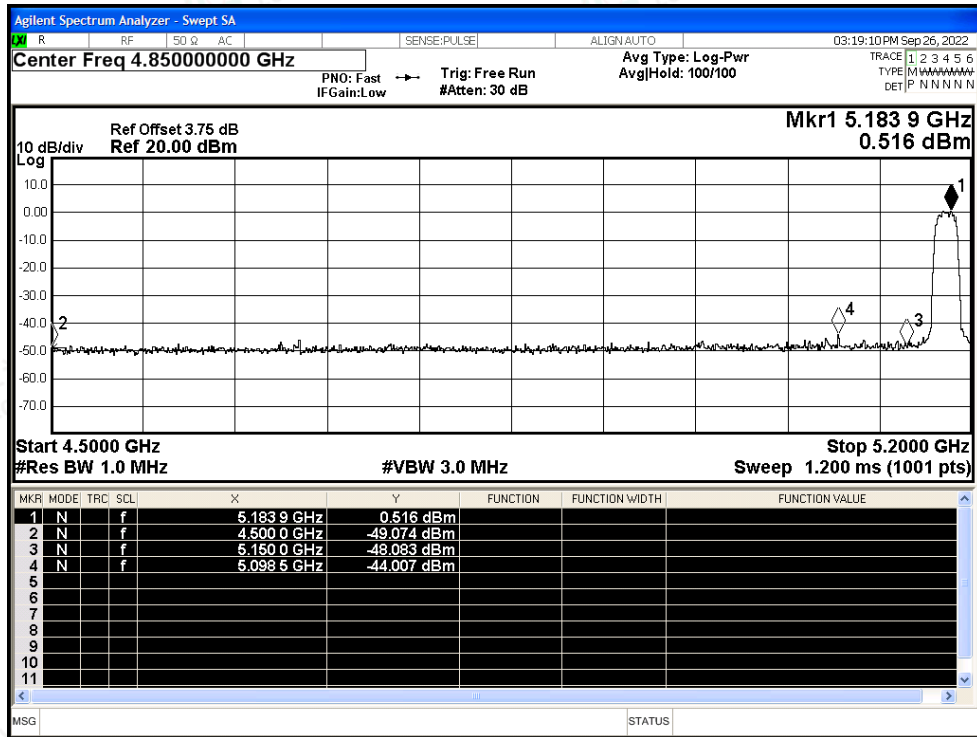


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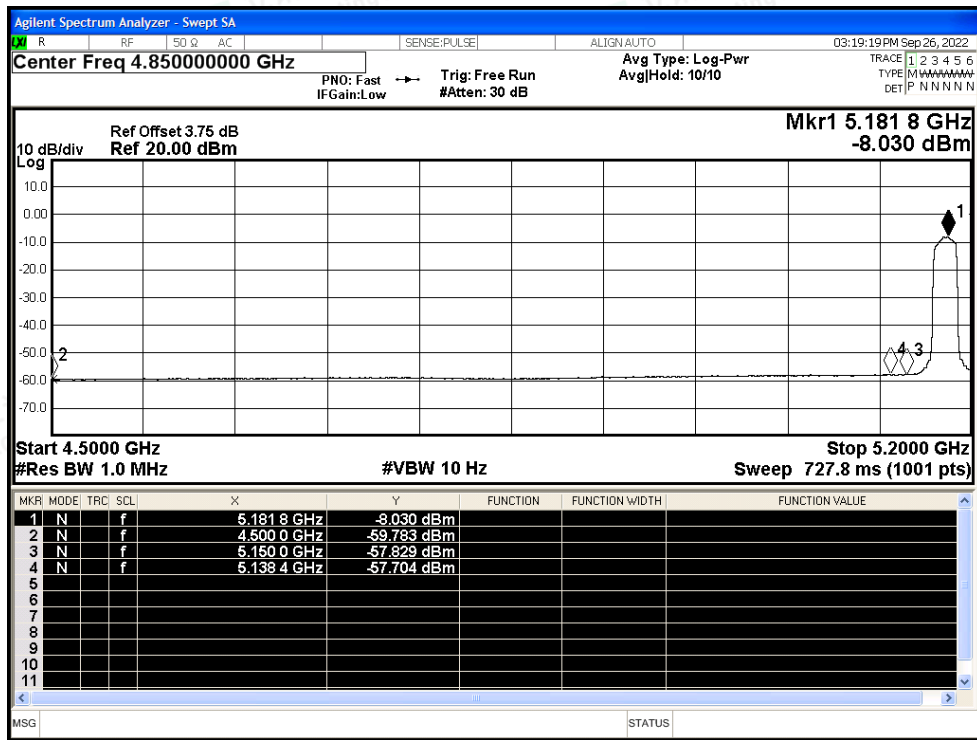


Test Graphs

Restrict Band NVHT a 5180MHz Ant1 Peak

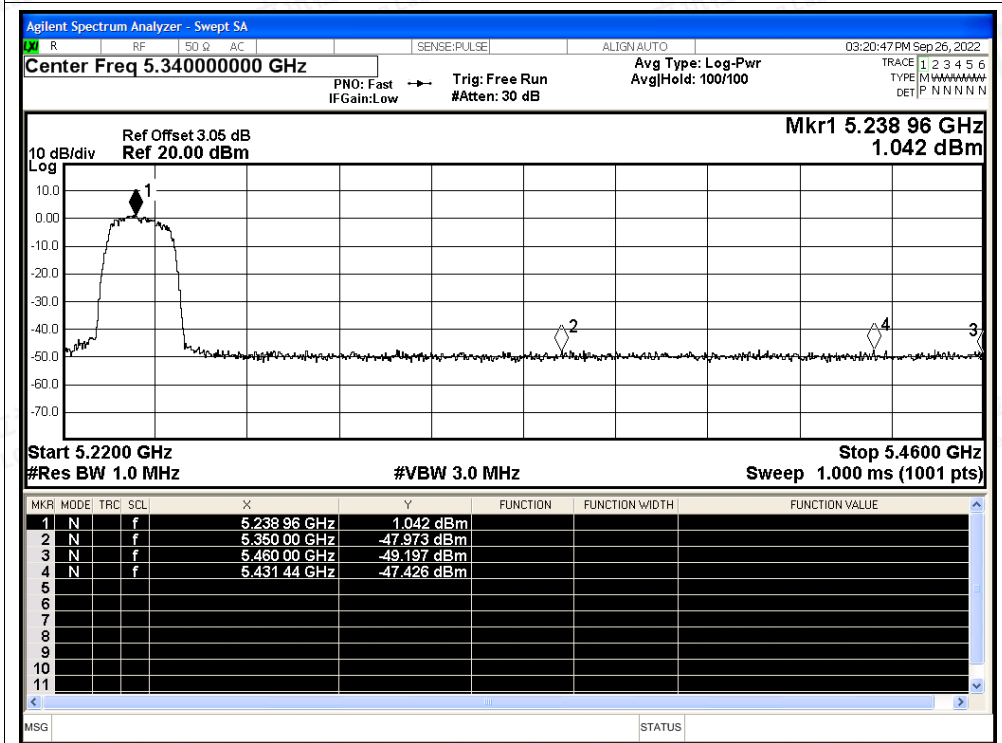


Restrict Band NVHT a 5180MHz Ant1 Average

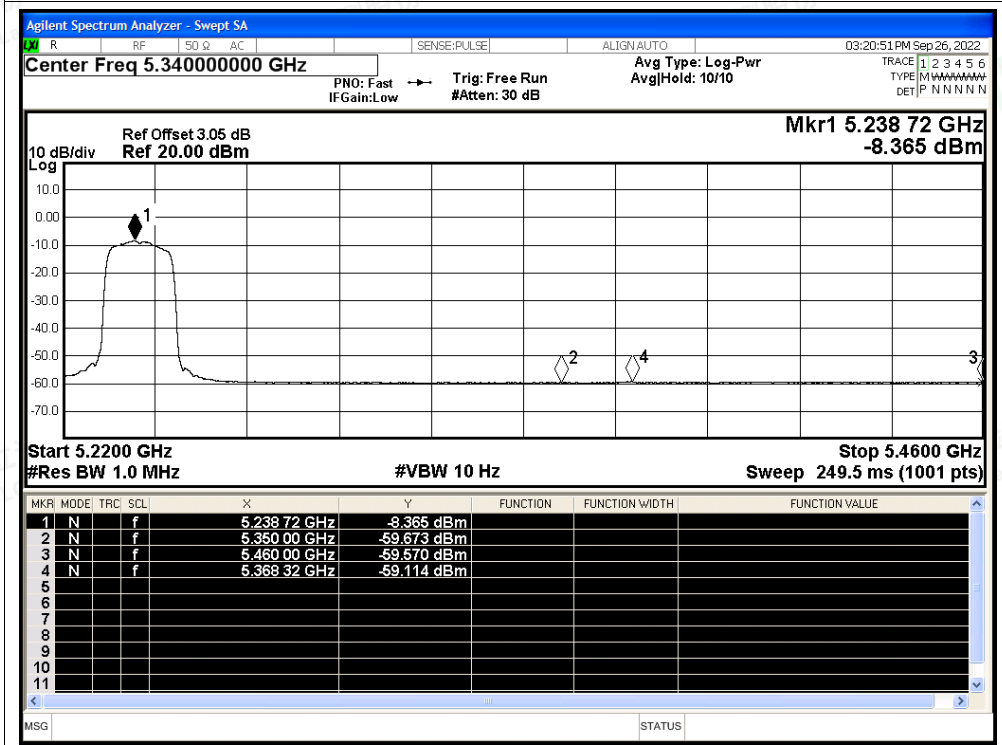




Restrict Band NVHT a 5240MHz Ant1 Peak

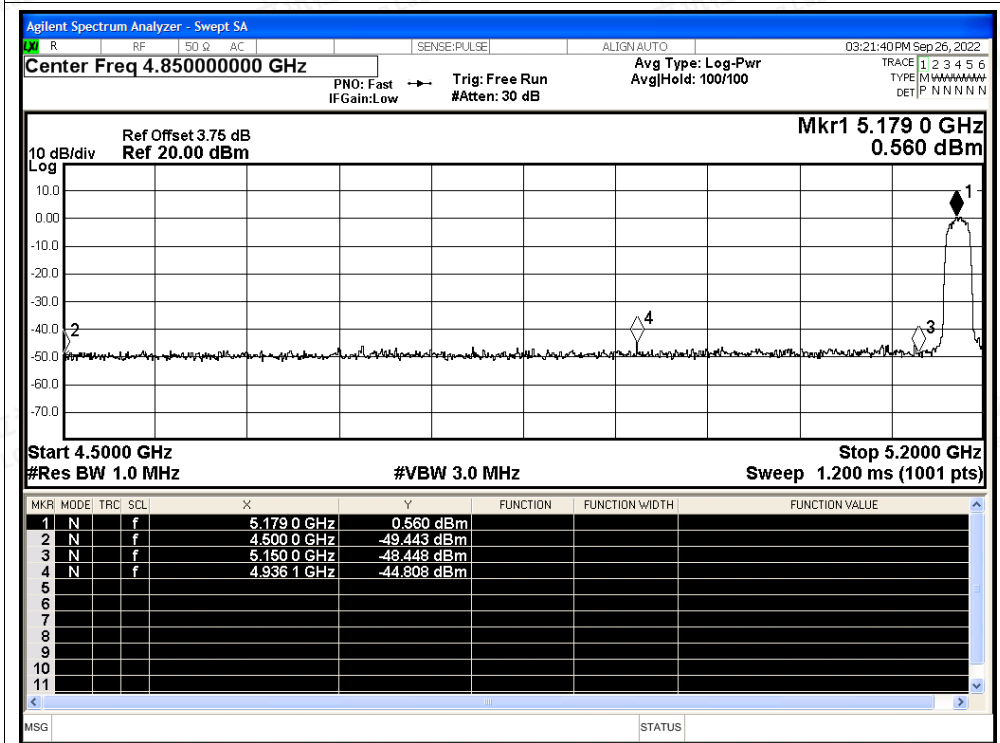


Restrict Band NVHT a 5240MHz Ant1 Average

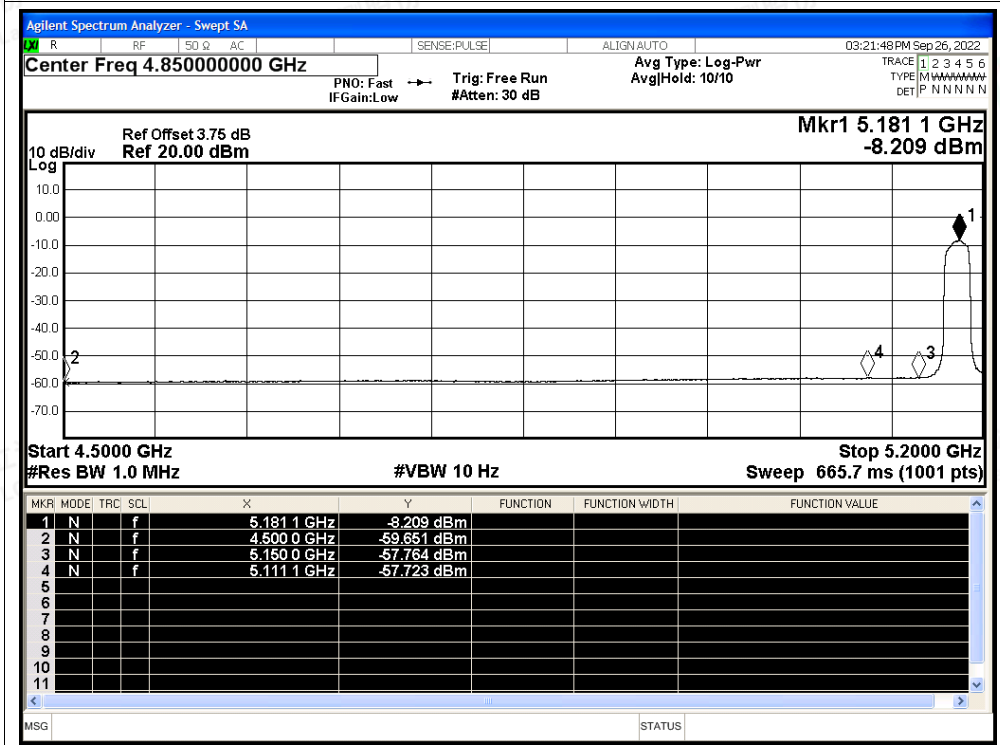




Restrict Band NVHT n20 5180MHz Ant1 Peak

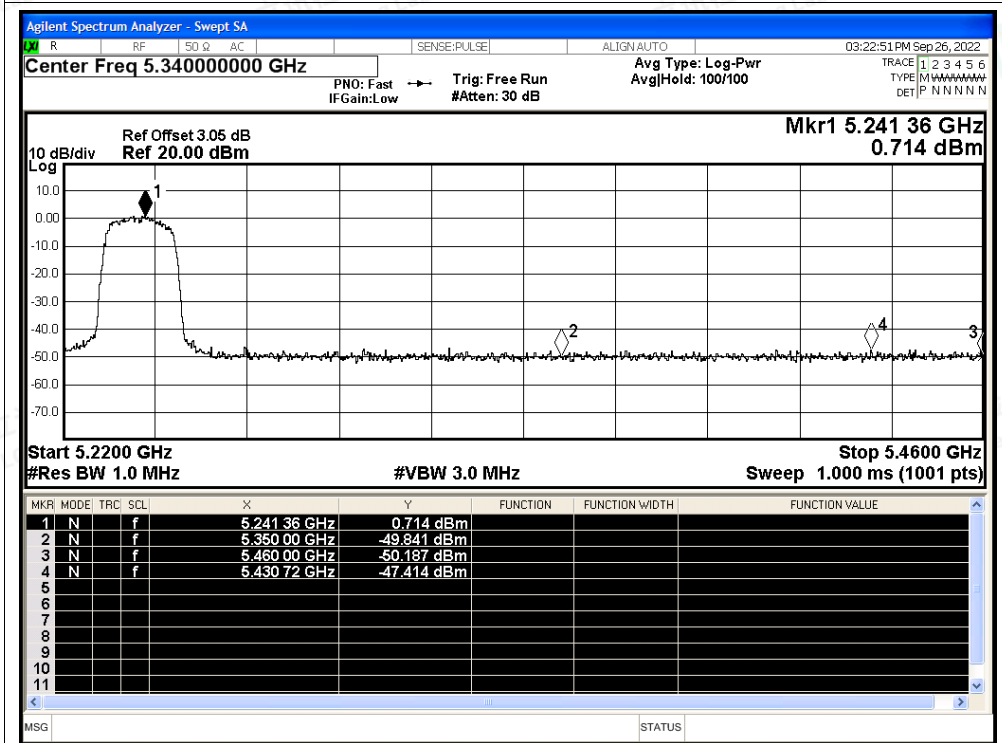


Restrict Band NVHT n20 5180MHz Ant1 Average

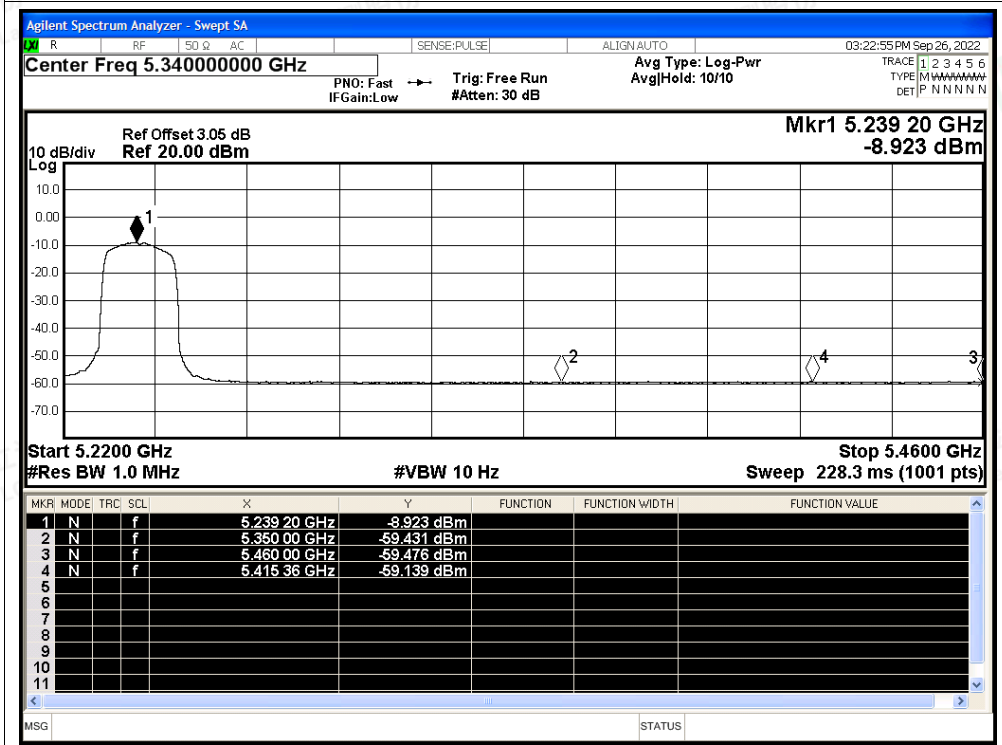




Restrict Band NVHT n20 5240MHz Ant1 Peak

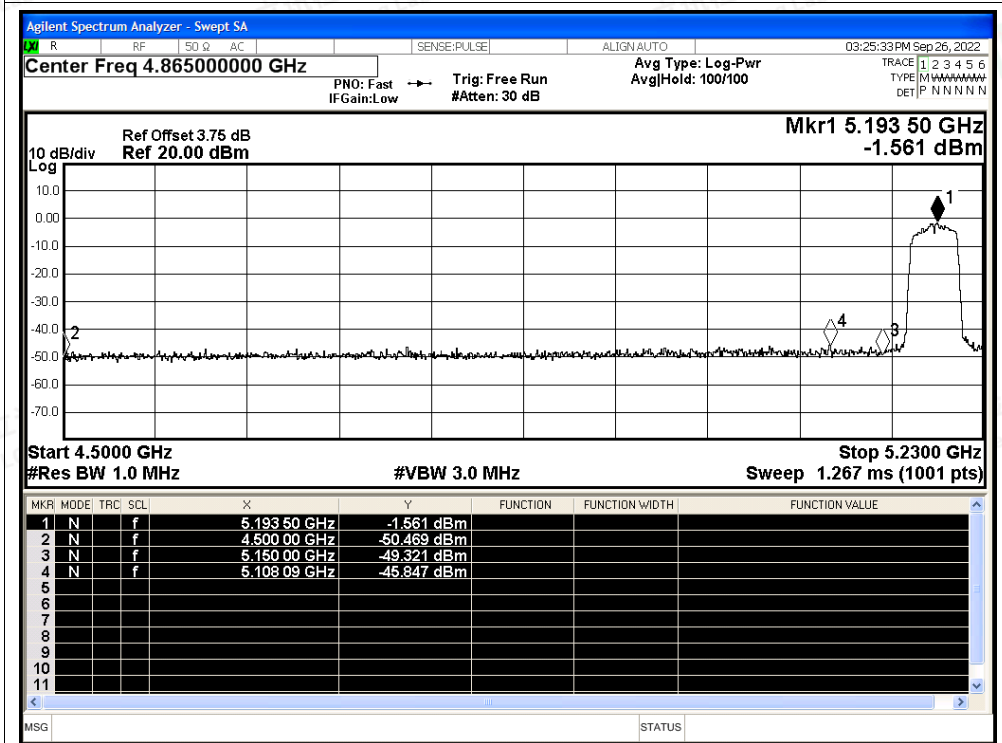


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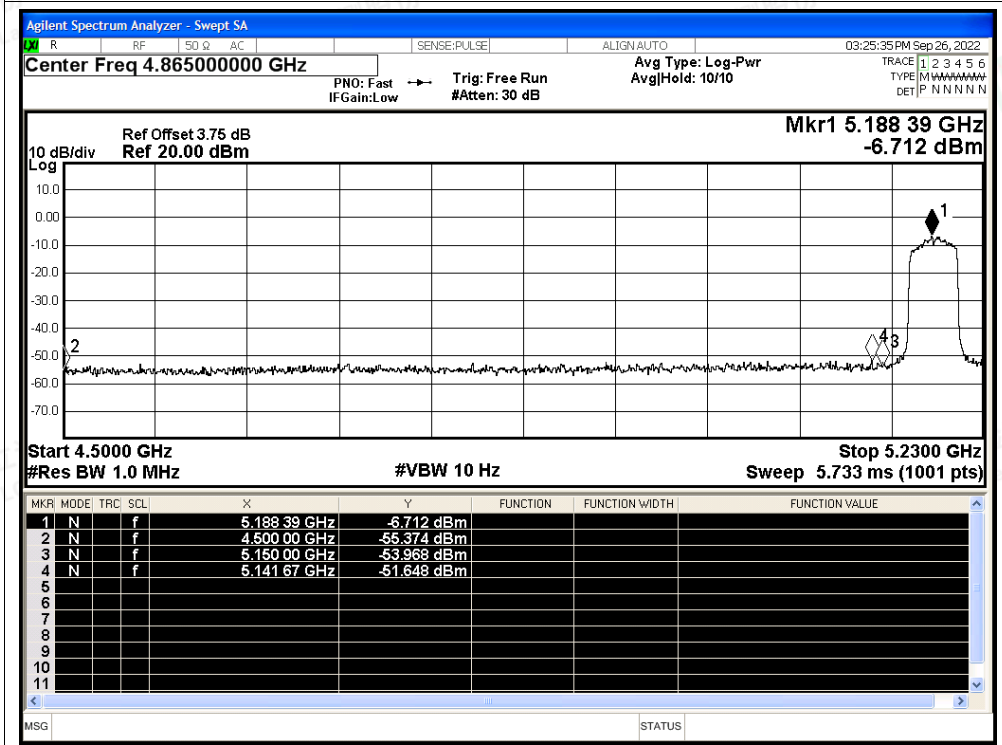




Restrict Band NVHT n40 5190MHz Ant1 Peak

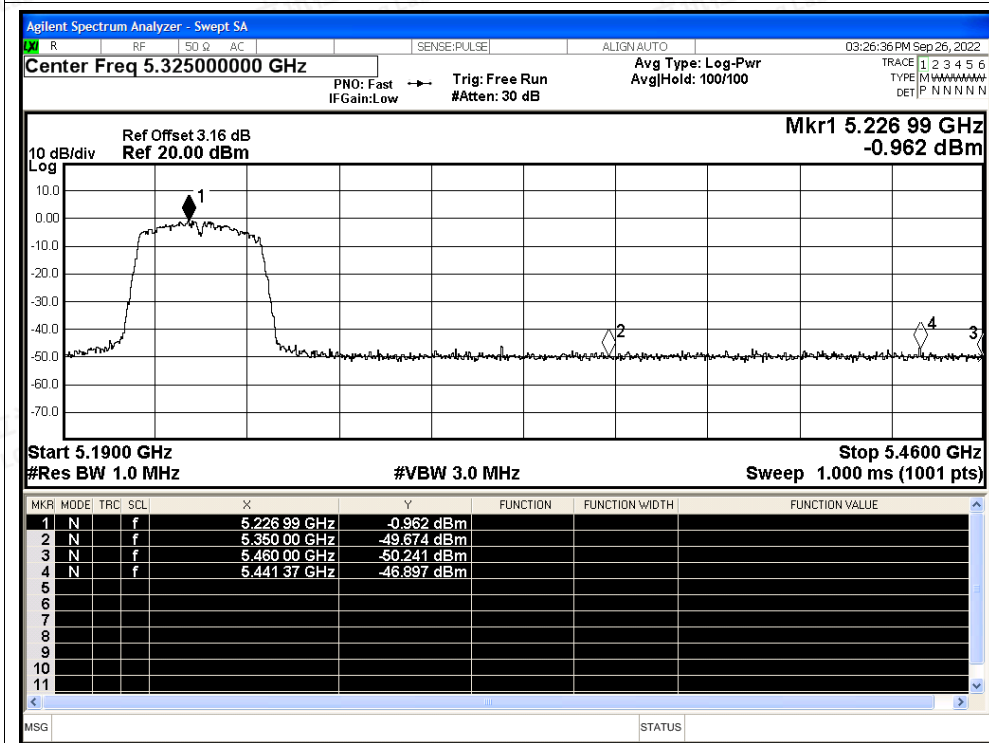


Restrict Band NVHT n40 5190MHz Ant1 Average

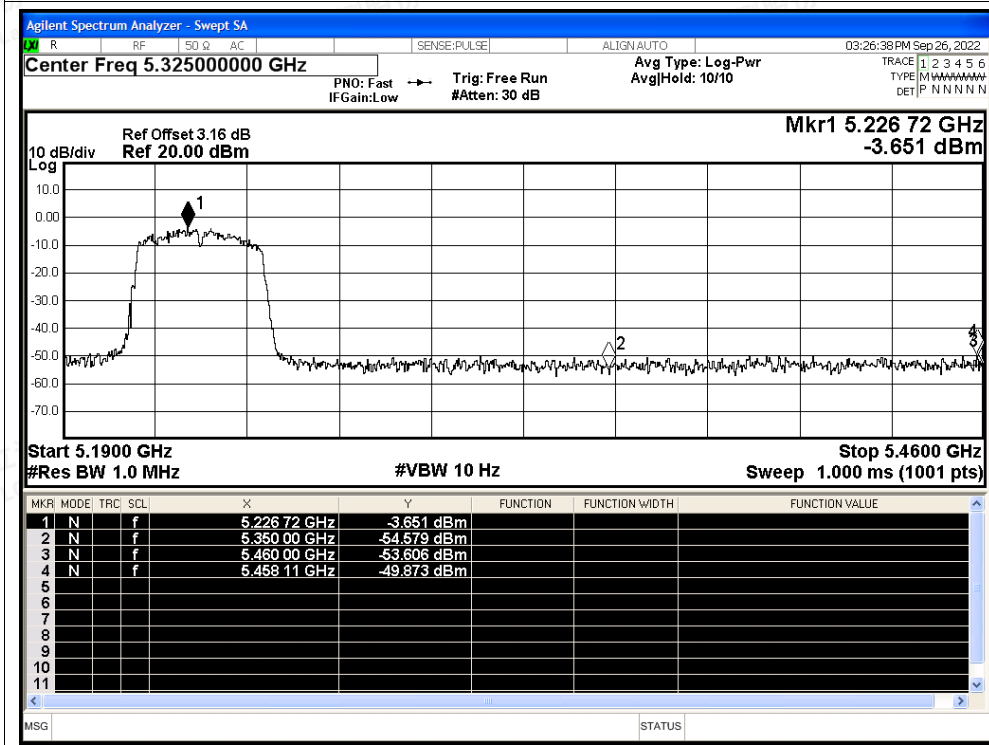




Restrict Band NVHT n40 5230MHz Ant1 Peak

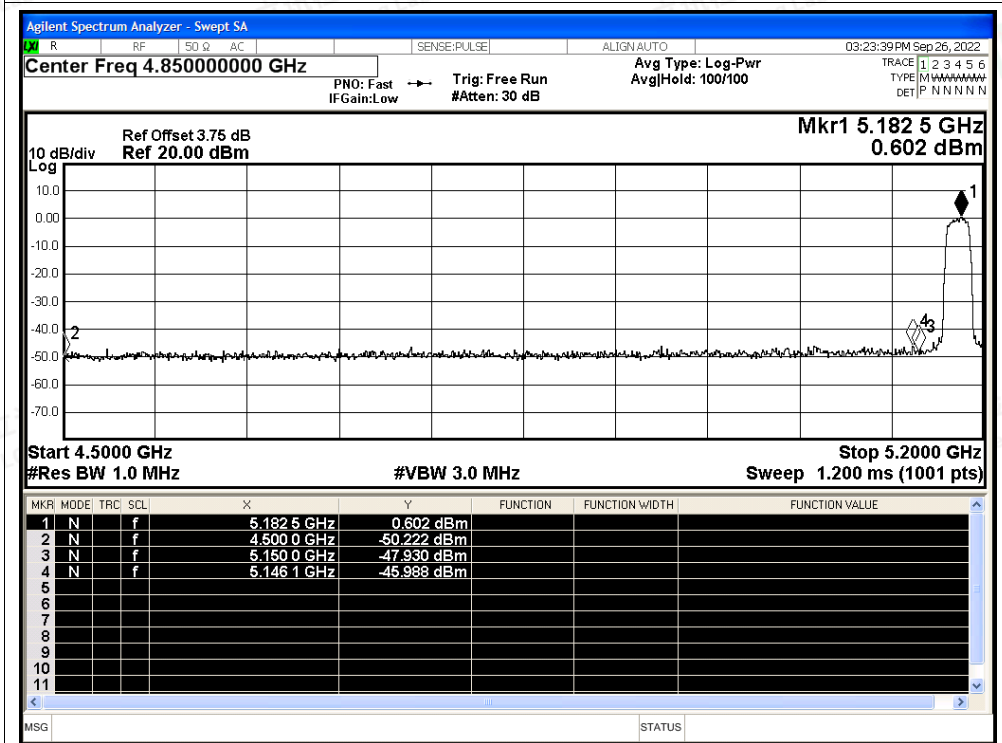


Restrict Band NVHT n40 5230MHz Ant1 Average

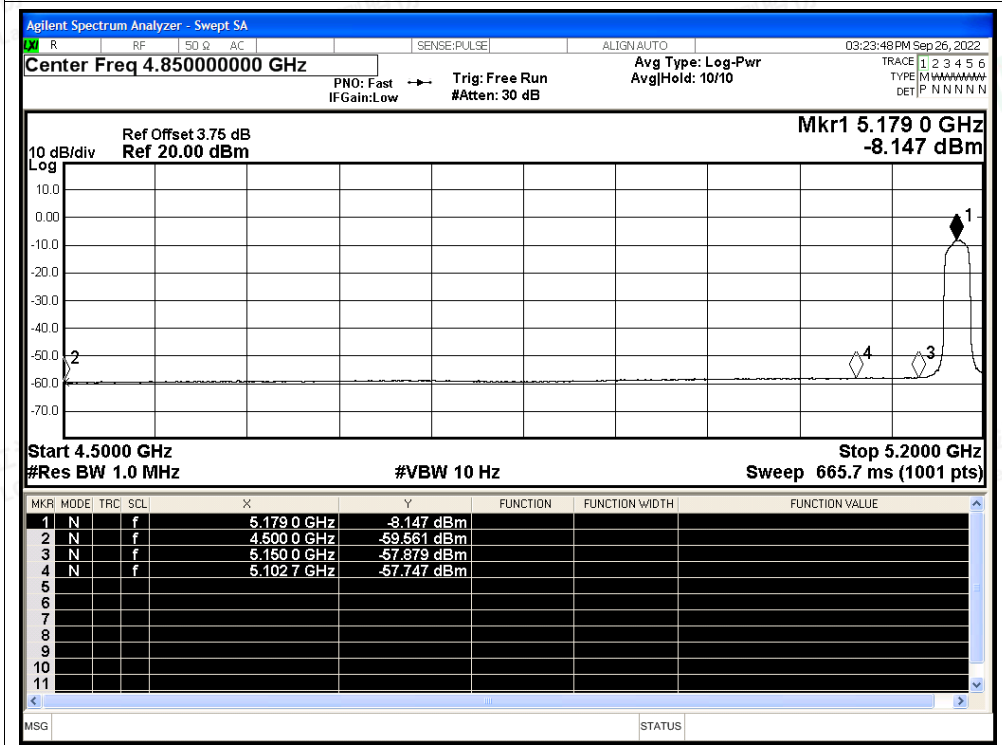




Restrict Band NVHT ac20 5180MHz Ant1 Peak

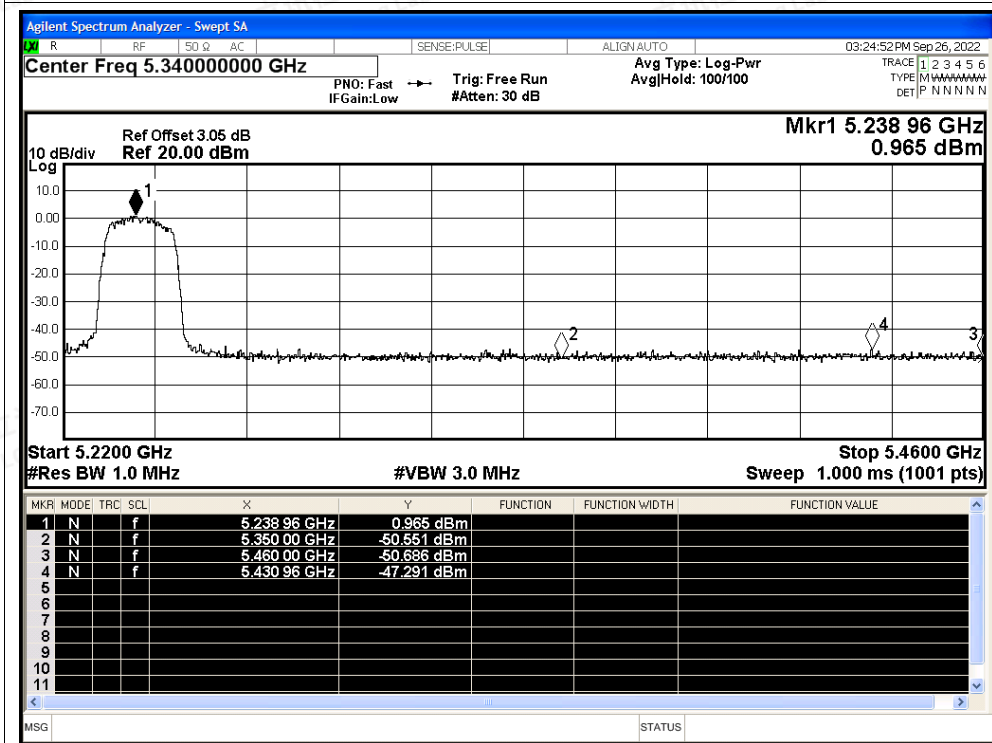


Restrict Band NVHT ac20 5180MHz Ant1 Average

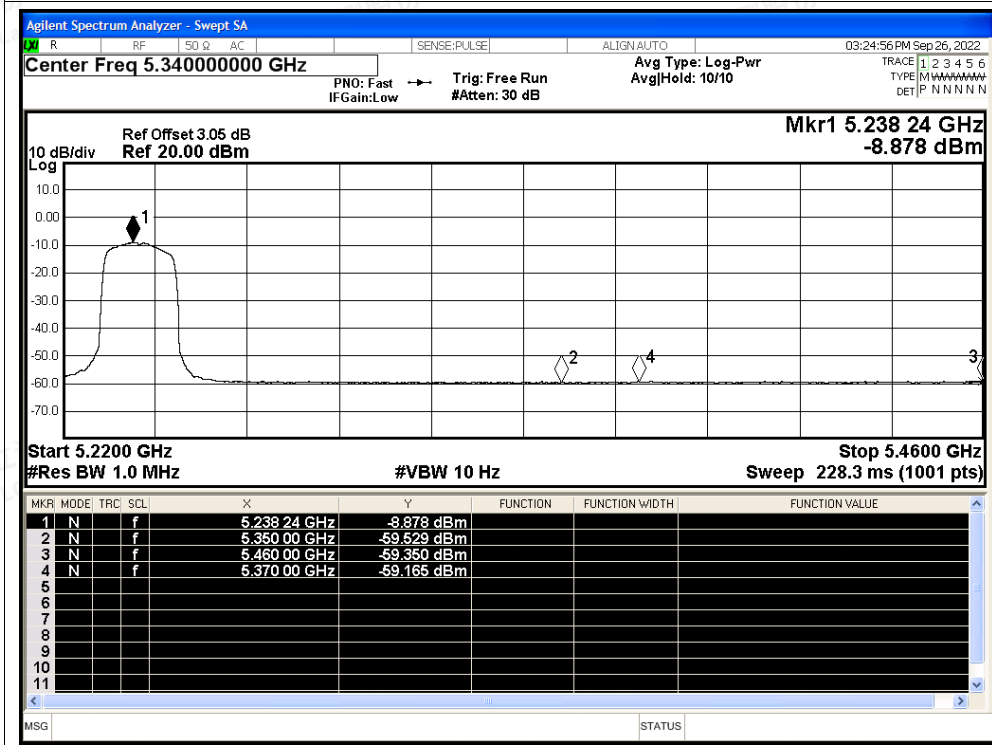




Restrict Band NVHT ac20 5240MHz Ant1 Peak

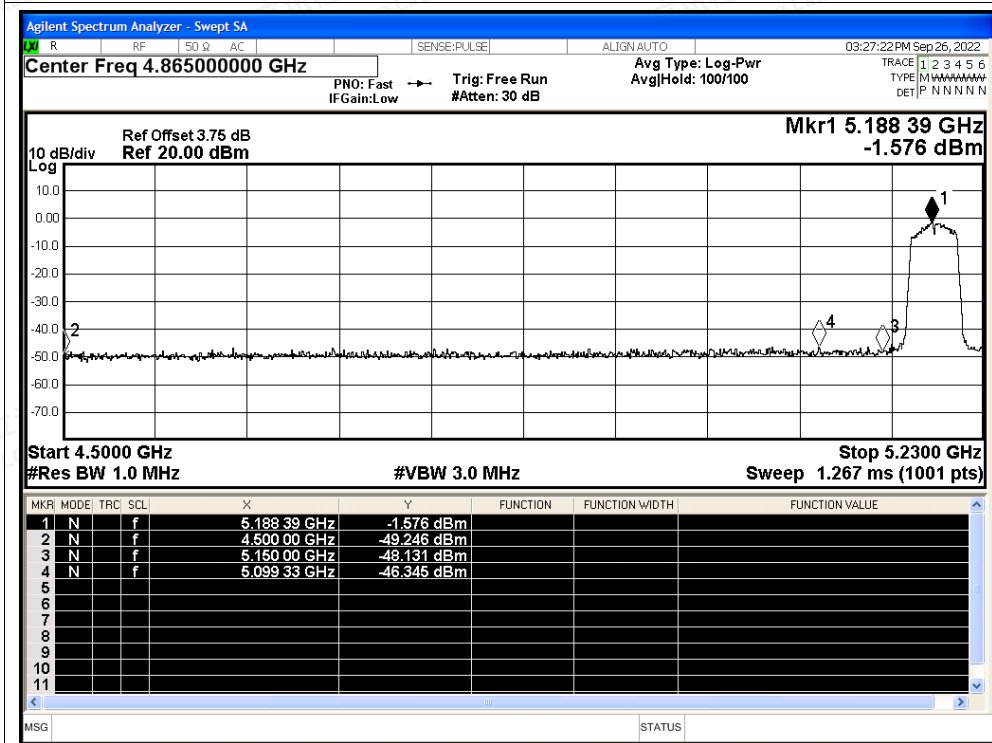


Restrict Band NVHT ac20 5240MHz Ant1 Average

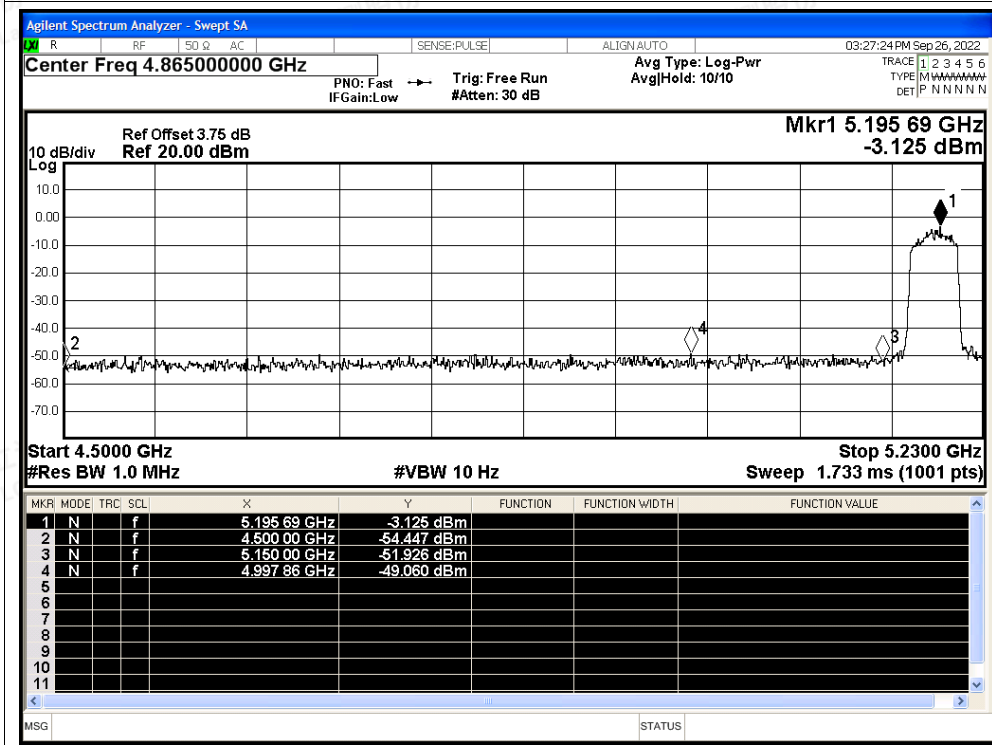




Restrict Band NVHT ac40 5190MHz Ant1 Peak

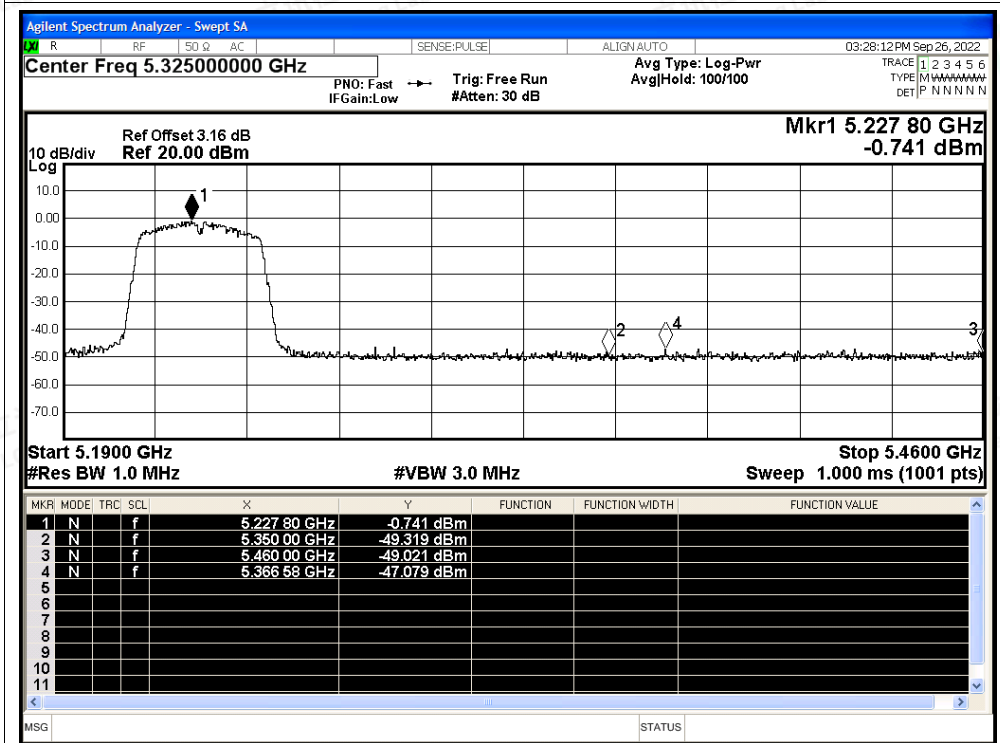


Restrict Band NVHT ac40 5190MHz Ant1 Average

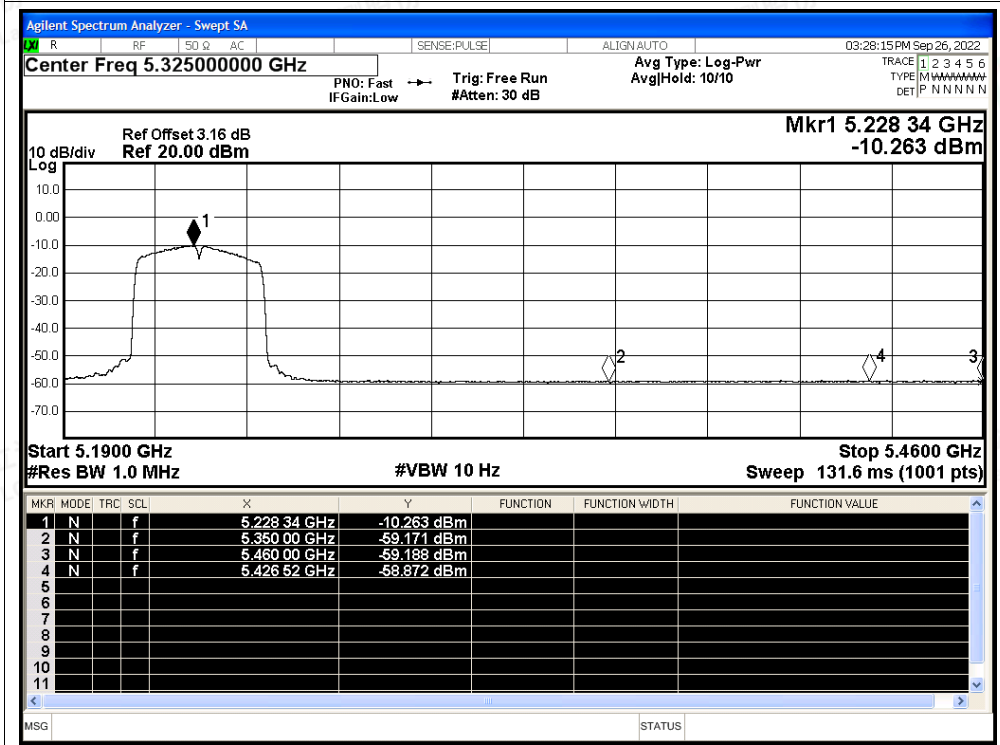




Restrict Band NVHT ac40 5230MHz Ant1 Peak

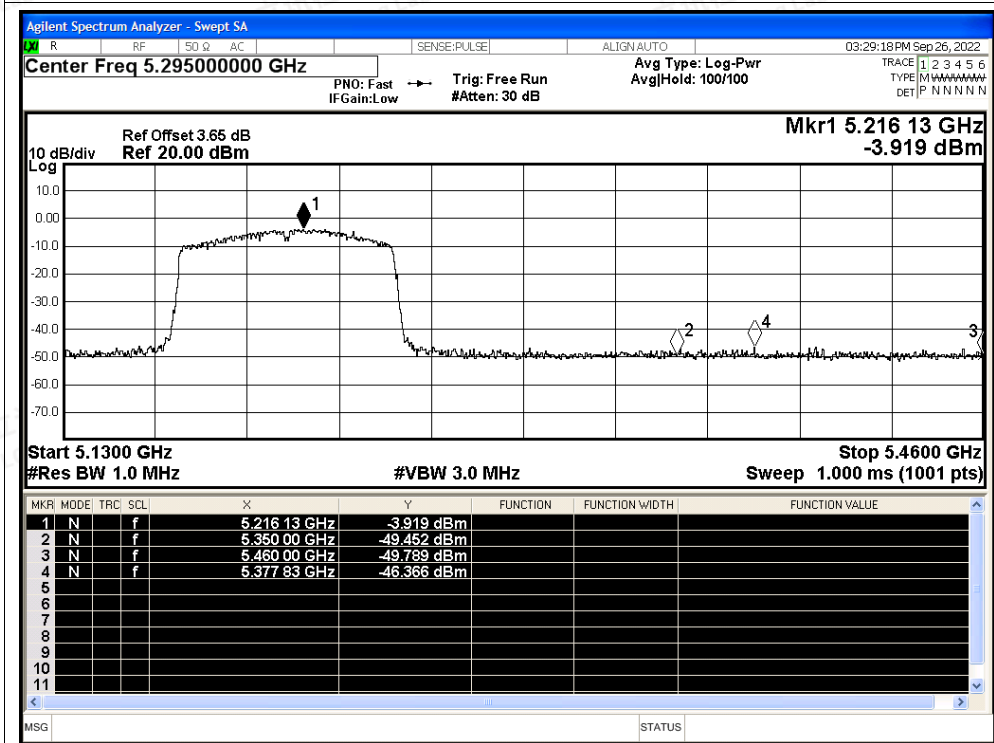


Restrict Band NVHT ac40 5230MHz Ant1 Average

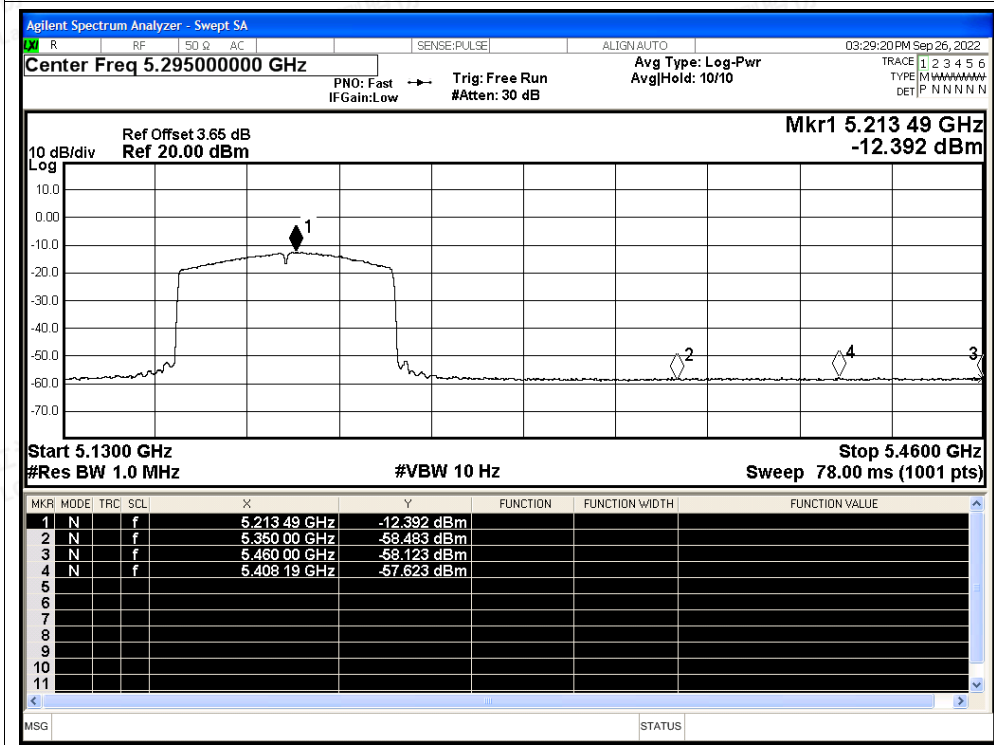




Restrict Band NVHT ac80 5210MHz Ant1 Peak

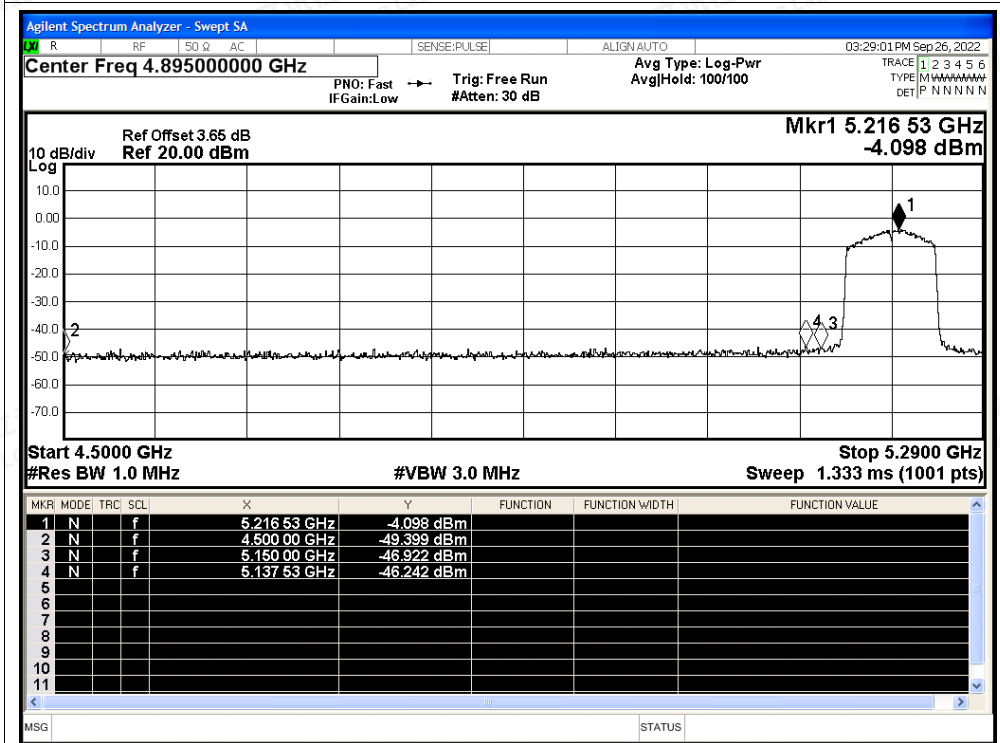


Restrict Band NVHT ac80 5210MHz Ant1 Average

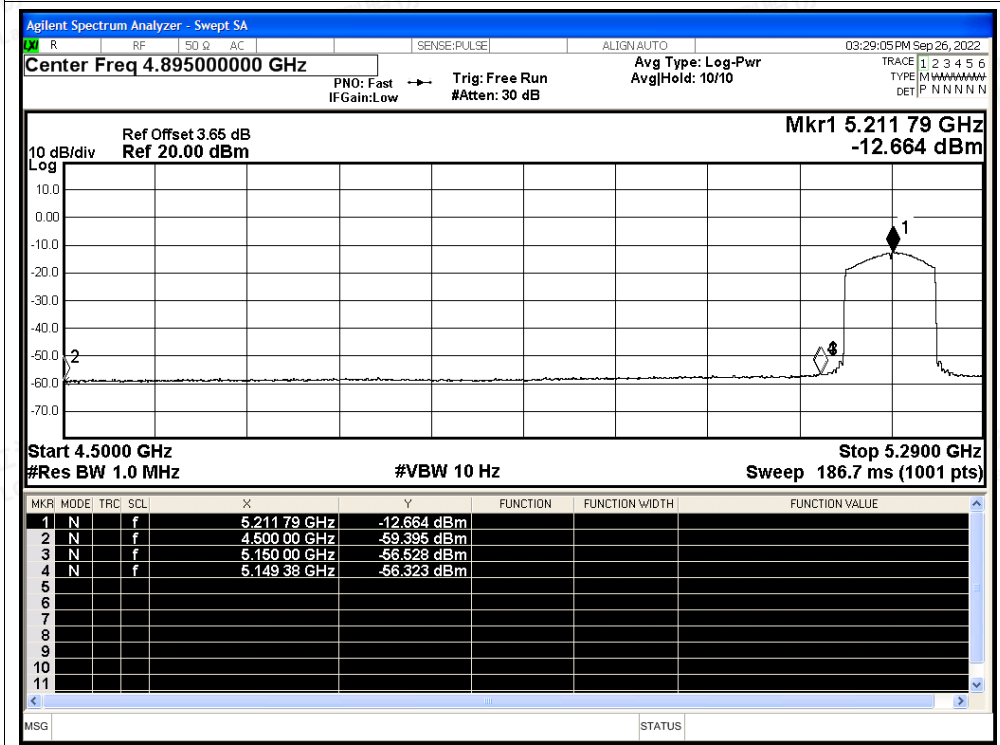




Restrict Band NVHT ac80 5210MHz Ant1 Peak



Restrict Band NVHT 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	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5200	0	0	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

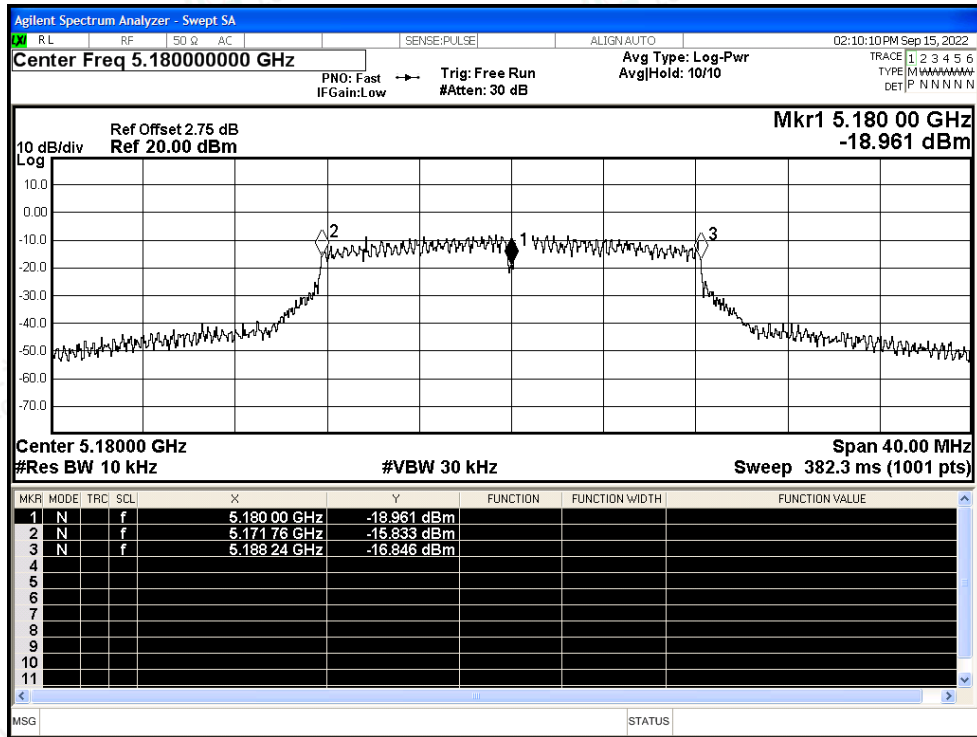


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

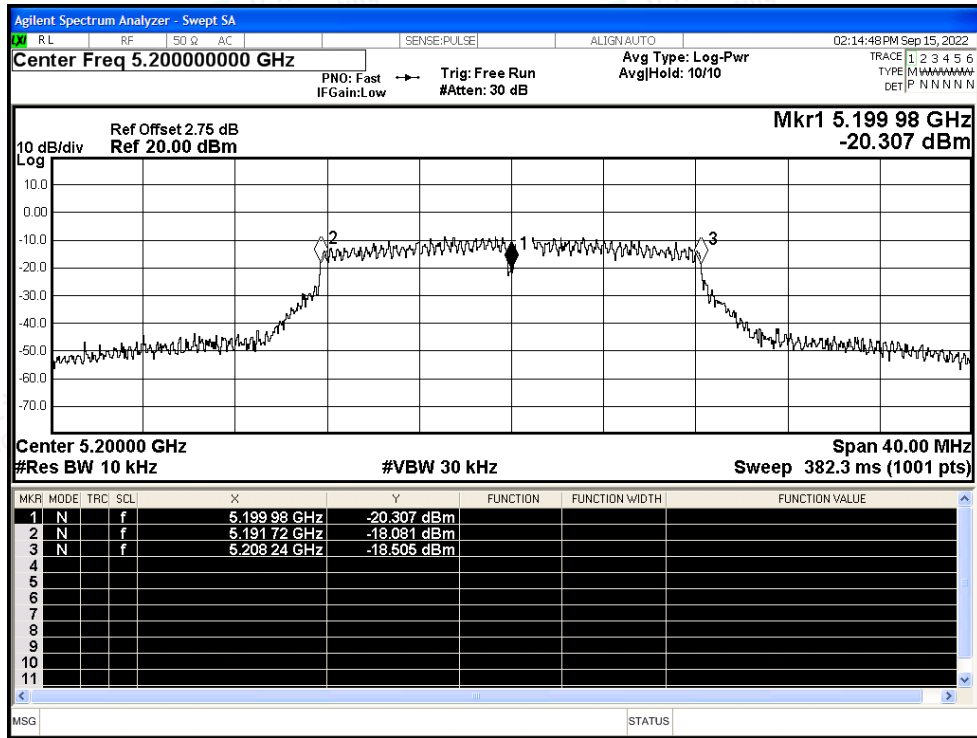


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1

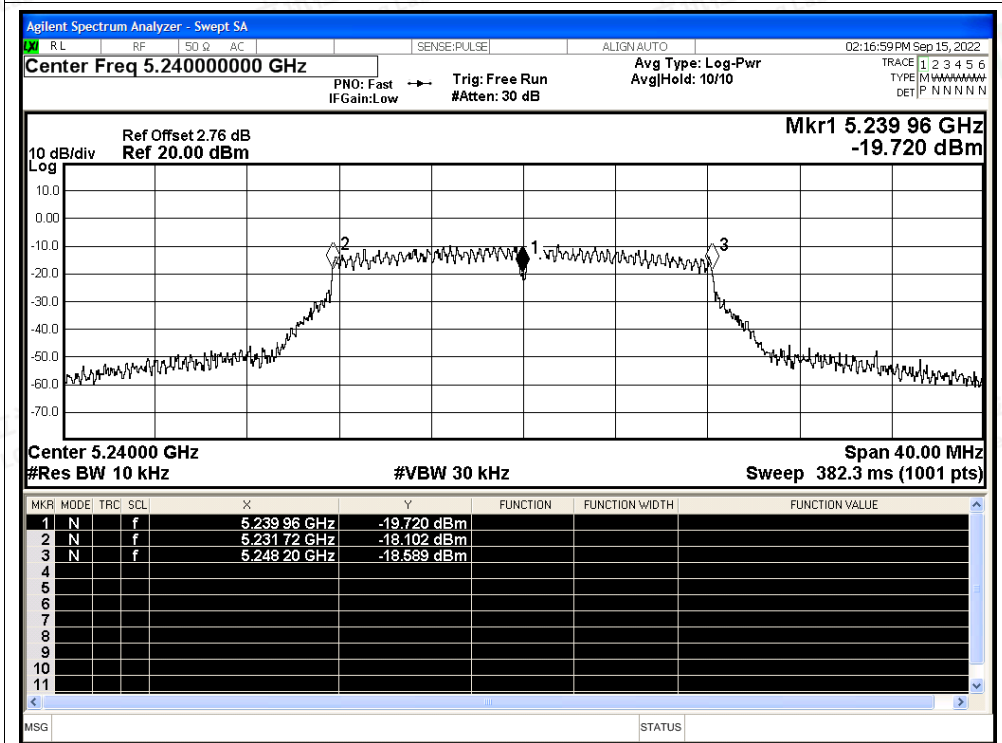


Freq. Stability NVNT a 5200MHz Ant1

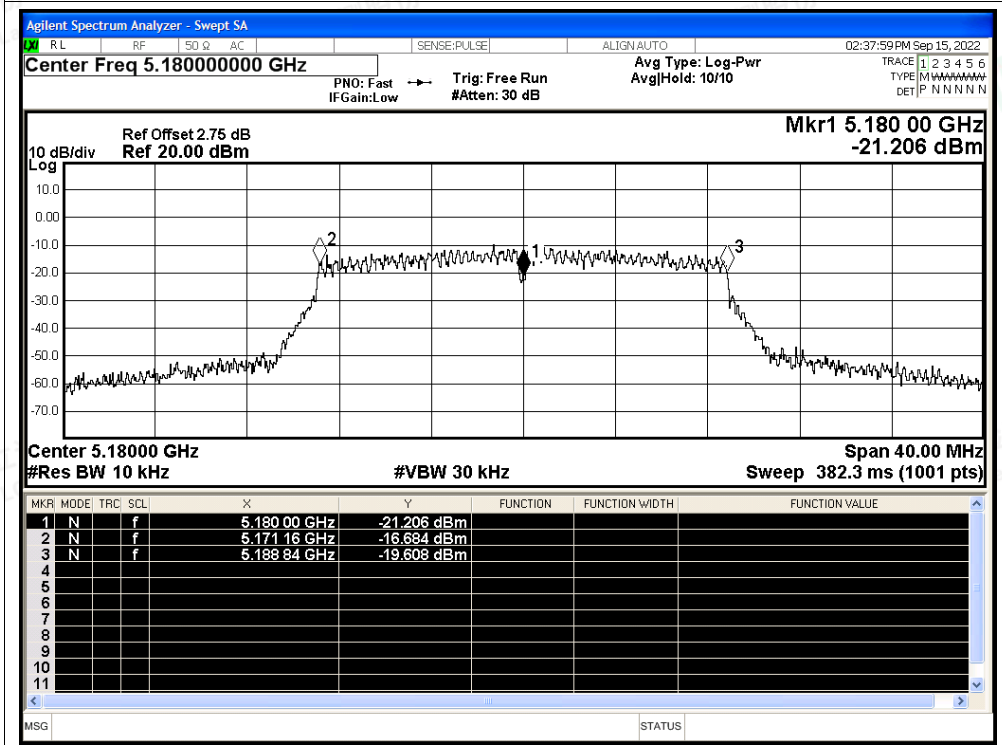




Freq. Stability NVNT a 5240MHz Ant1

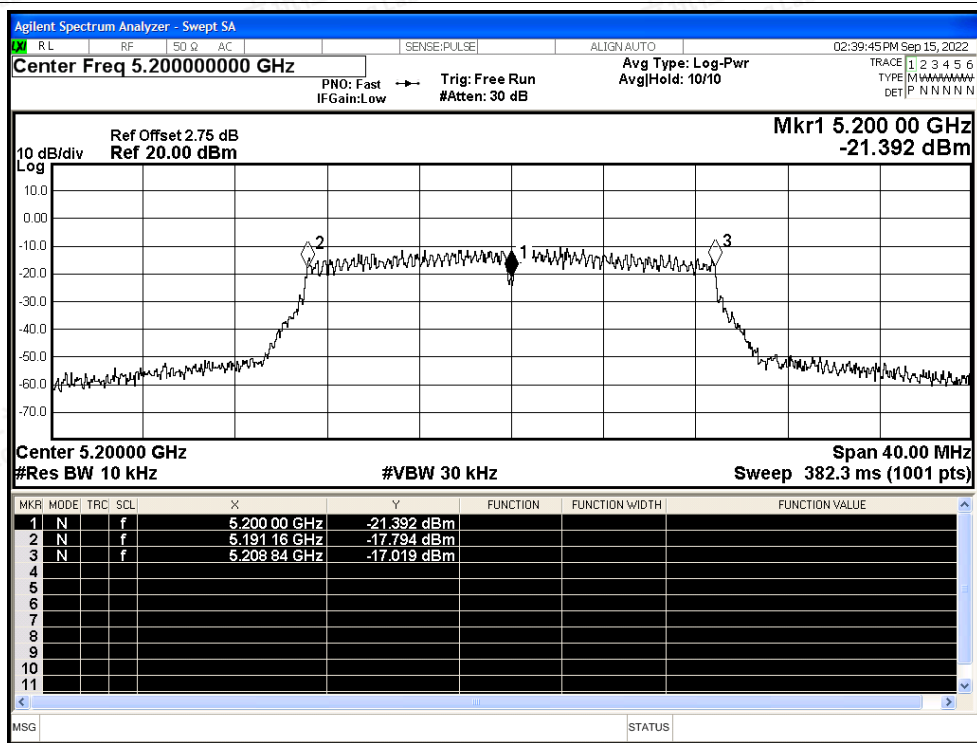


Freq. Stability NVNT n20 5180MHz Ant1

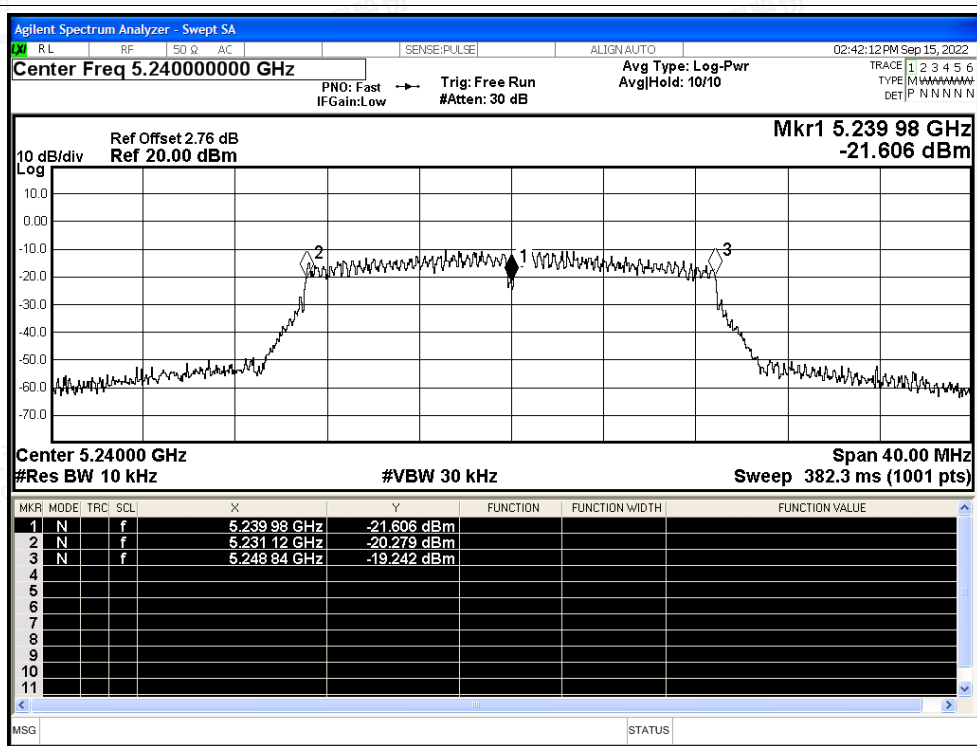




Freq. Stability NVNT n20 5200MHz Ant1

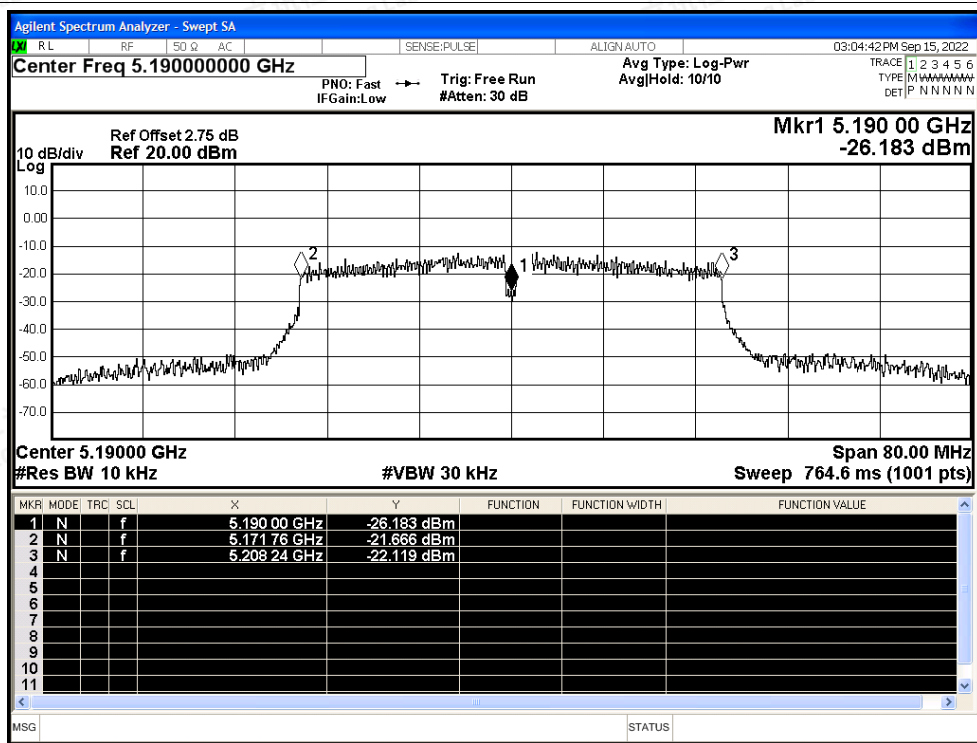


Freq. Stability NVNT n20 5240MHz Ant1

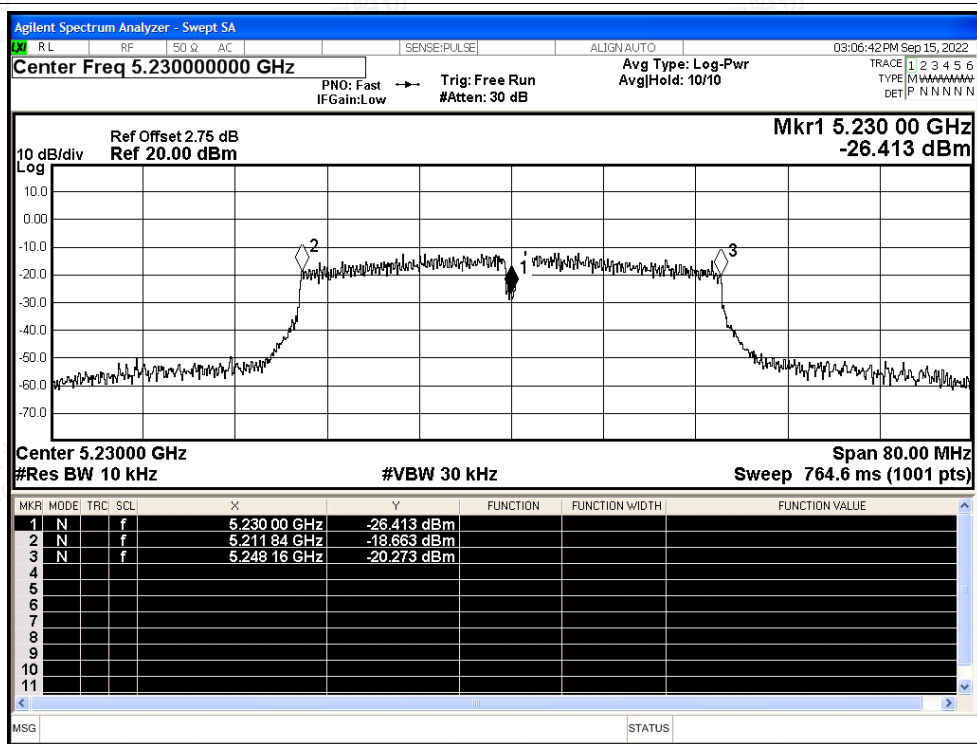




Freq. Stability NVNT n40 5190MHz Ant1

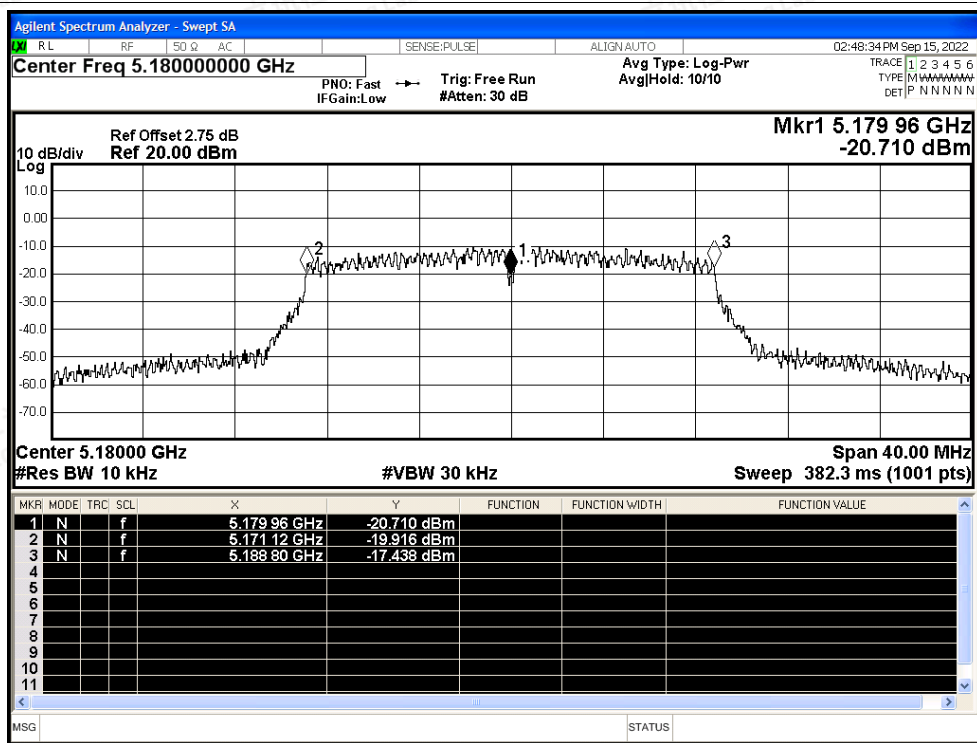


Freq. Stability NVNT n40 5230MHz Ant1

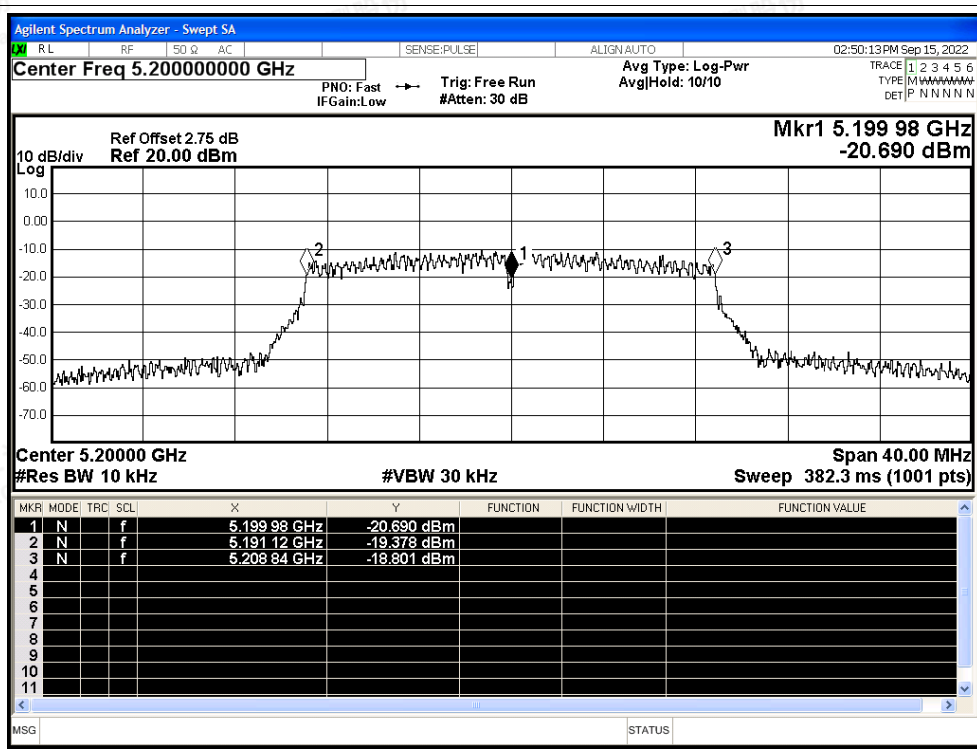




Freq. Stability NVNT ac20 5180MHz Ant1

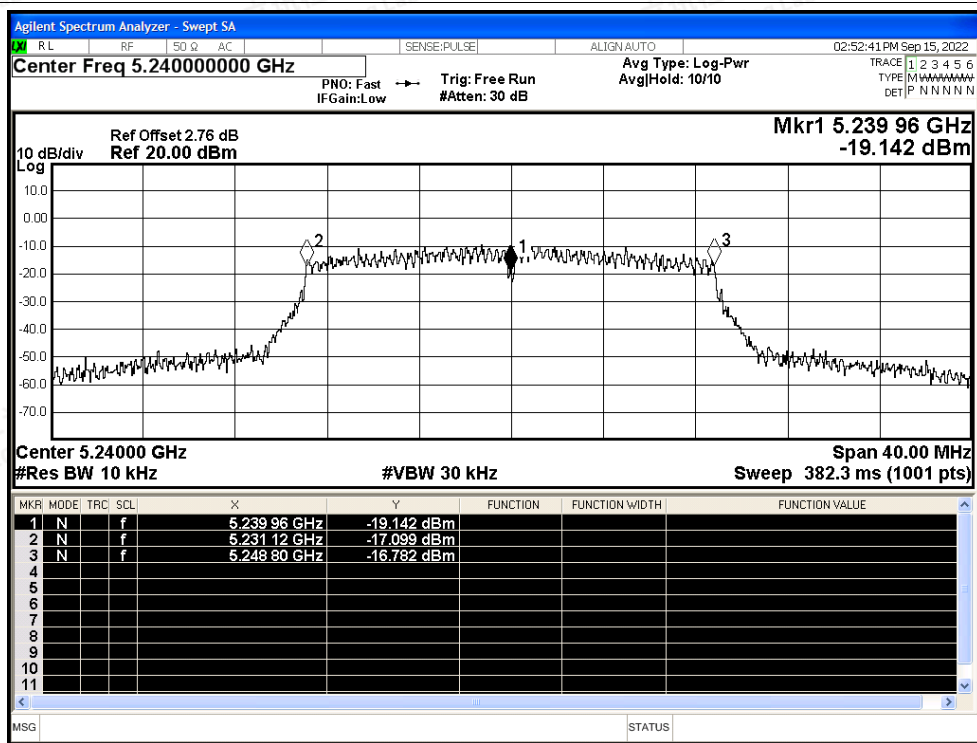


Freq. Stability NVNT ac20 5200MHz Ant1

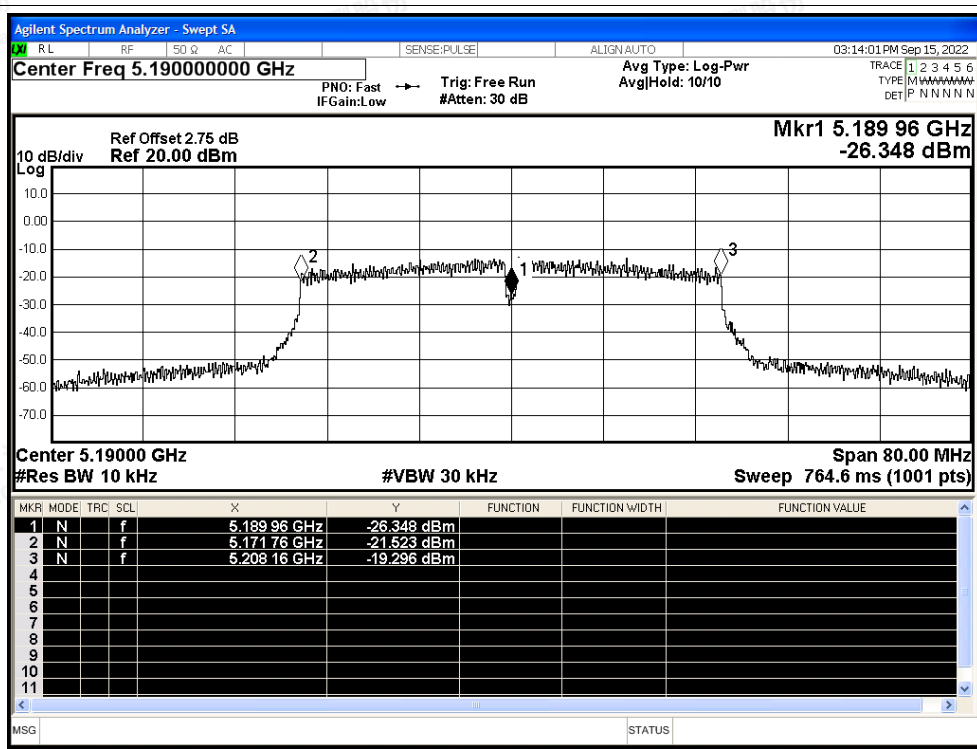




Freq. Stability NVNT ac20 5240MHz Ant1

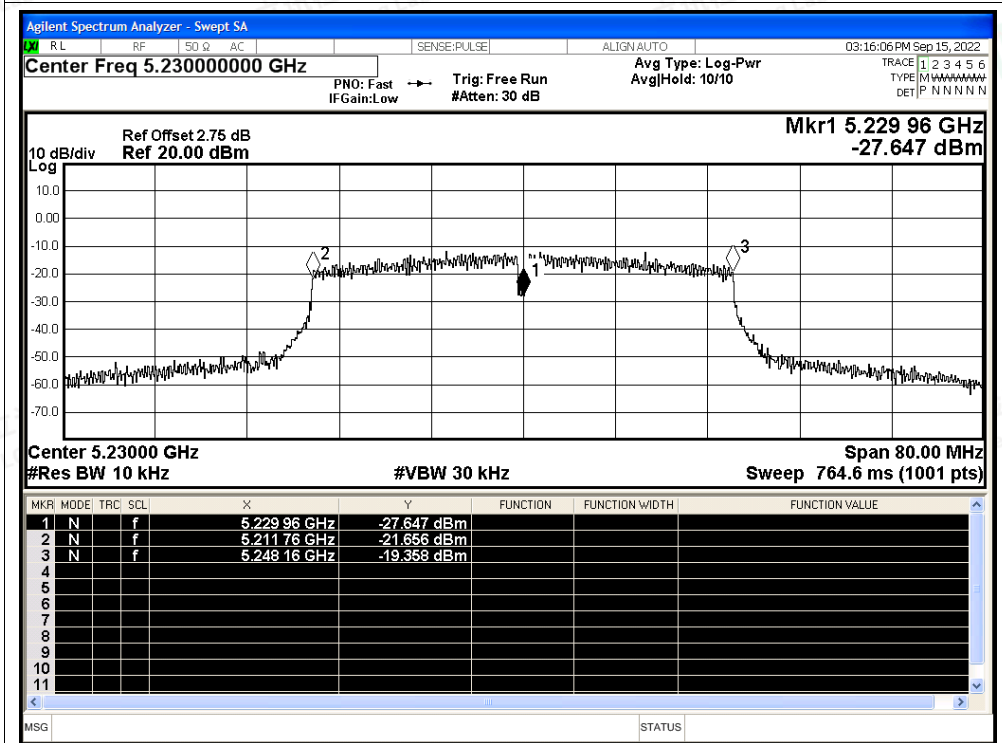


Freq. Stability NVNT ac40 5190MHz Ant1

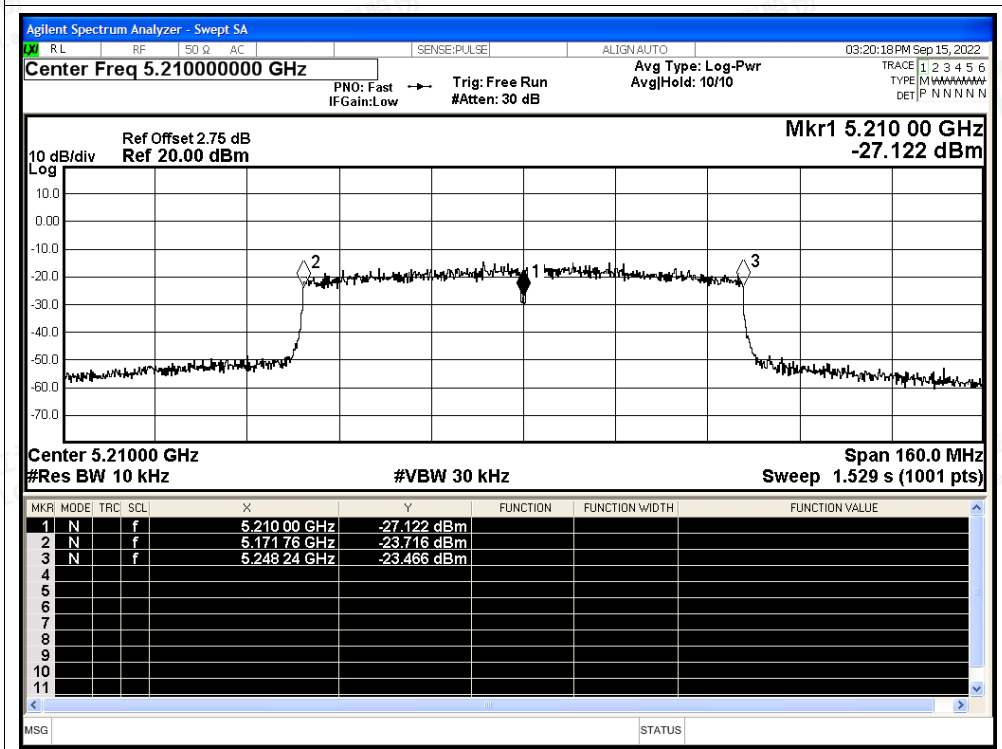




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1





B.6 Duty Cycle

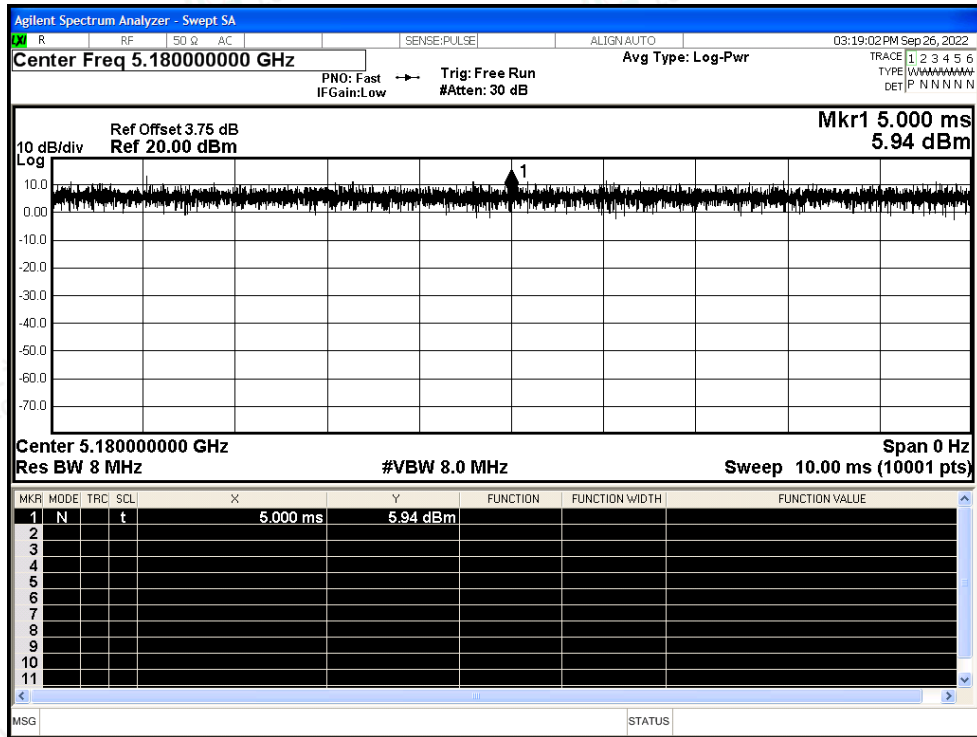
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVHT	a	5180	Ant1	100	0	0
NVHT	a	5200	Ant1	100	0	0
NVHT	a	5240	Ant1	100	0	0
NVHT	n20	5180	Ant1	100	0	0
NVHT	n20	5200	Ant1	100	0	0
NVHT	n20	5240	Ant1	100	0	0
NVHT	n40	5190	Ant1	100	0	0
NVHT	n40	5230	Ant1	100	0	0
NVHT	ac20	5180	Ant1	100	0	0
NVHT	ac20	5200	Ant1	100	0	0
NVHT	ac20	5240	Ant1	100	0	0
NVHT	ac40	5190	Ant1	100	0	0
NVHT	ac40	5230	Ant1	100	0	0
NVHT	ac80	5210	Ant1	100	0	0



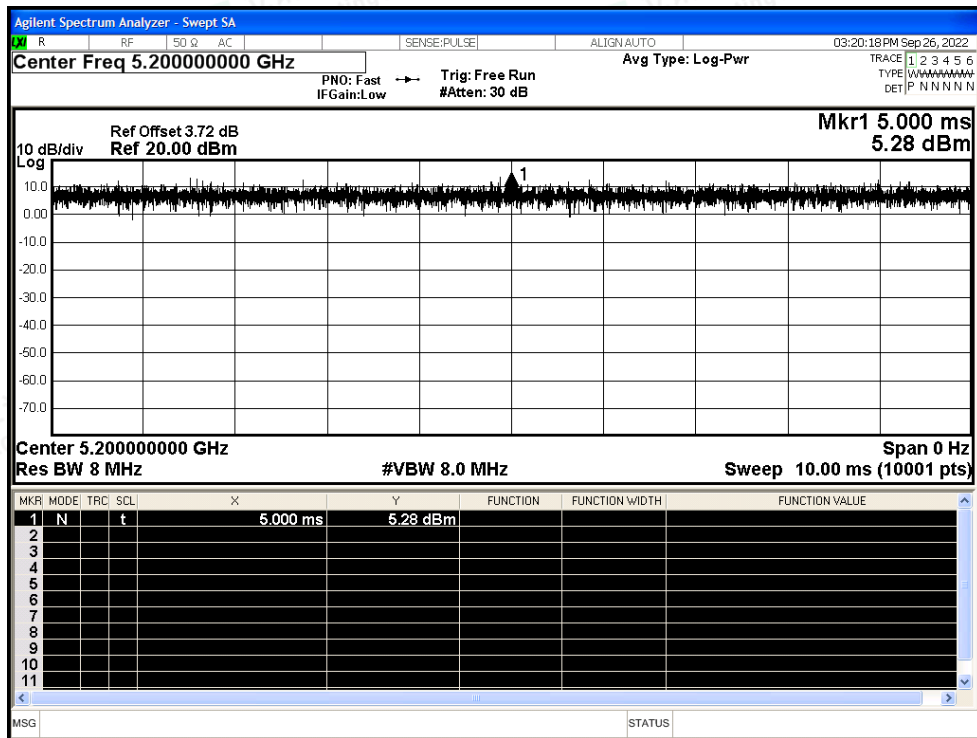


Test Graphs

Duty Cycle NVHT a 5180MHz Ant1

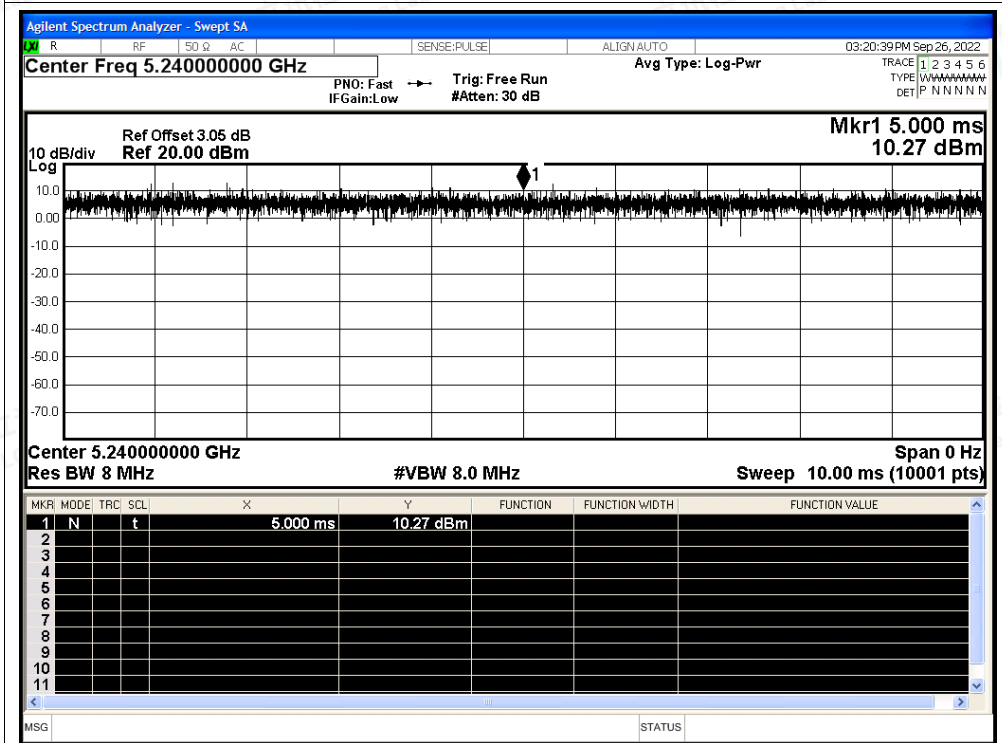


Duty Cycle NVHT a 5200MHz Ant1

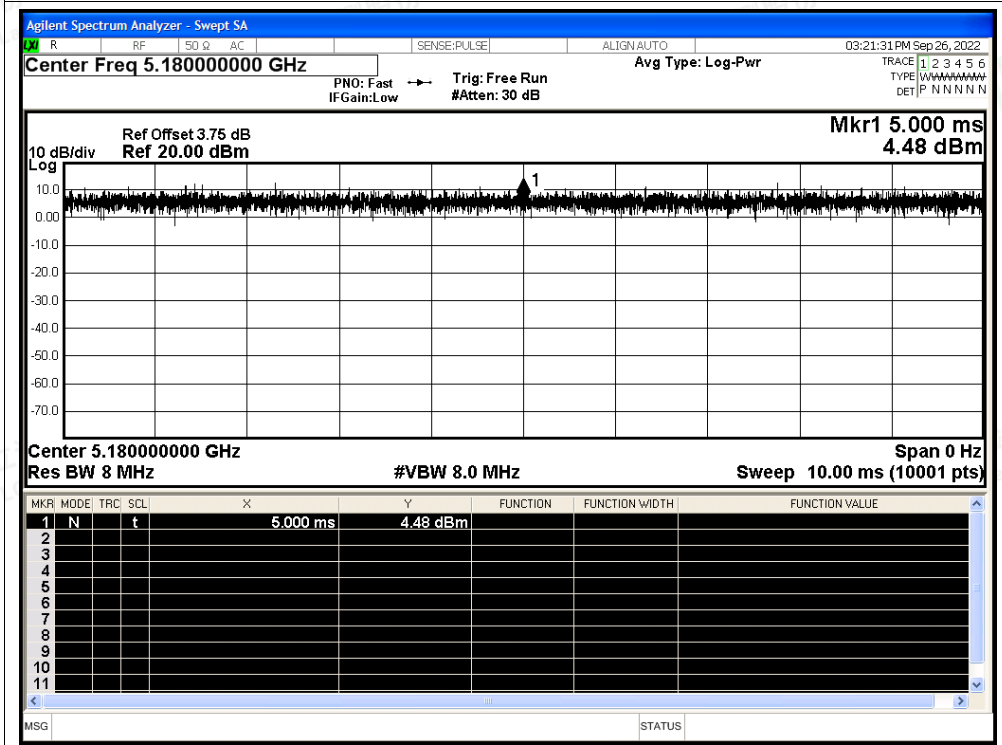




Duty Cycle NVHT a 5240MHz Ant1

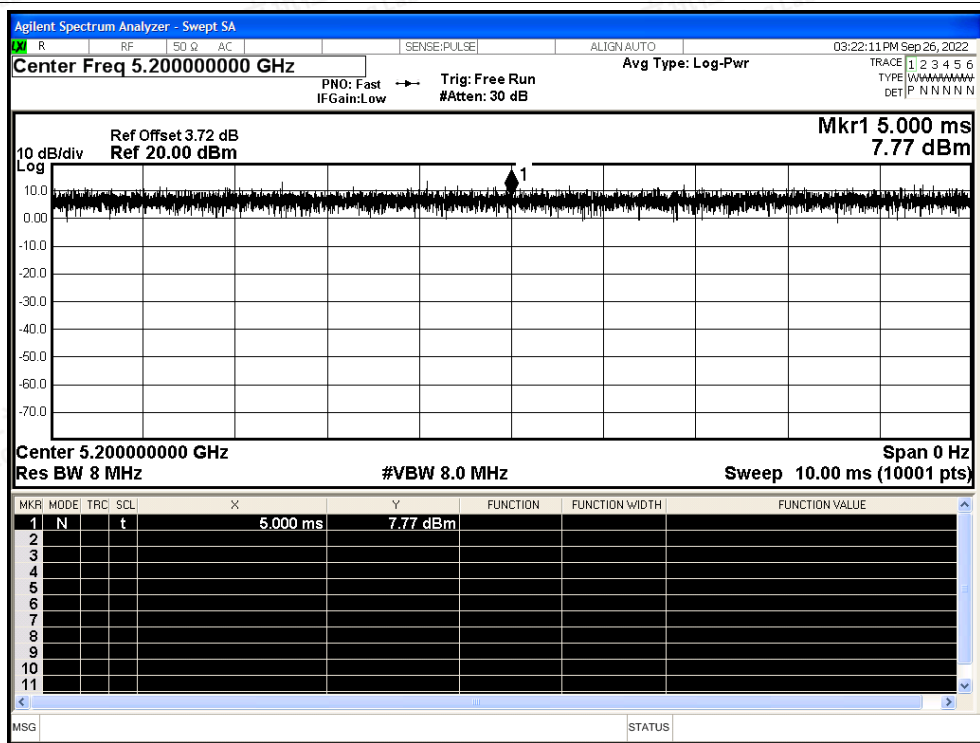


Duty Cycle NVHT n20 5180MHz Ant1

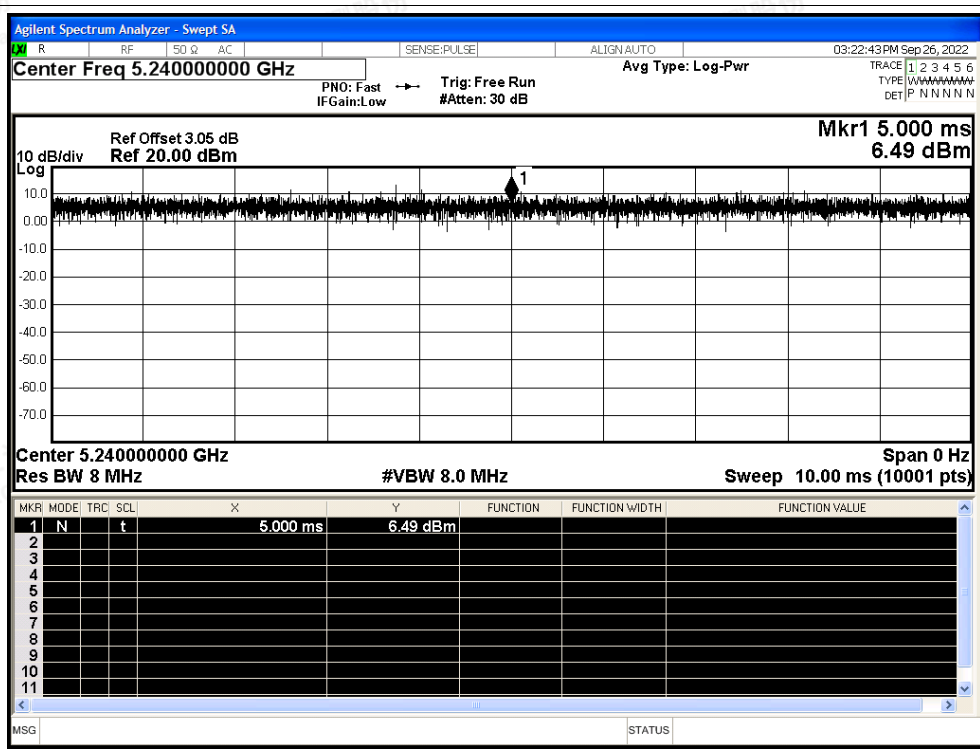




Duty Cycle NVHT n20 5200MHz Ant1

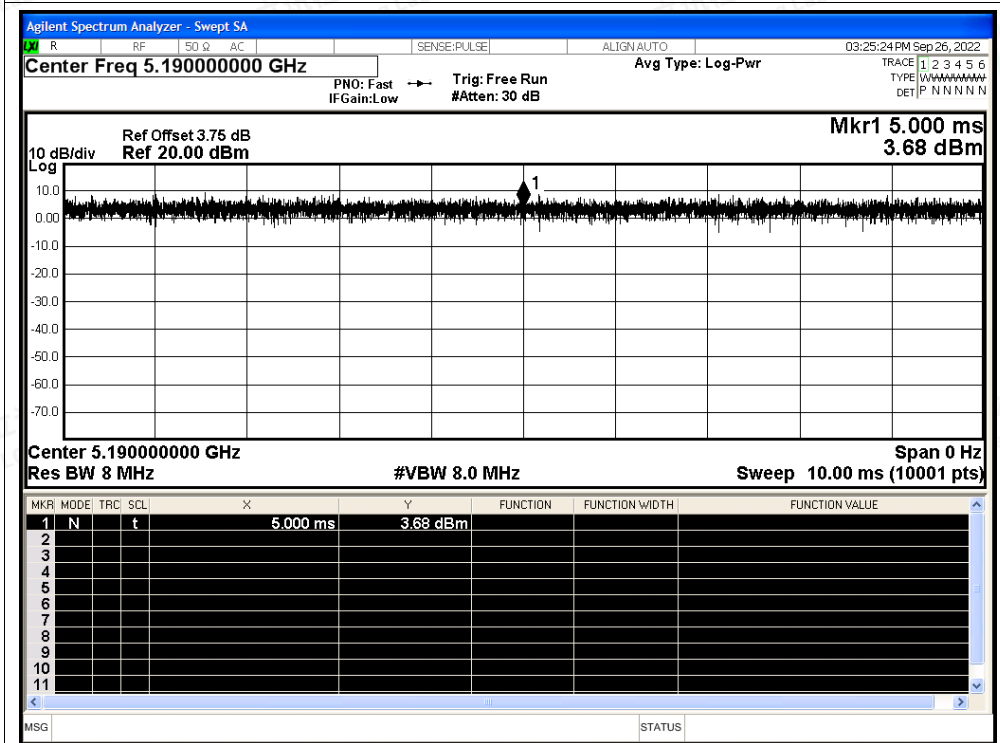


Duty Cycle NVHT n20 5240MHz Ant1

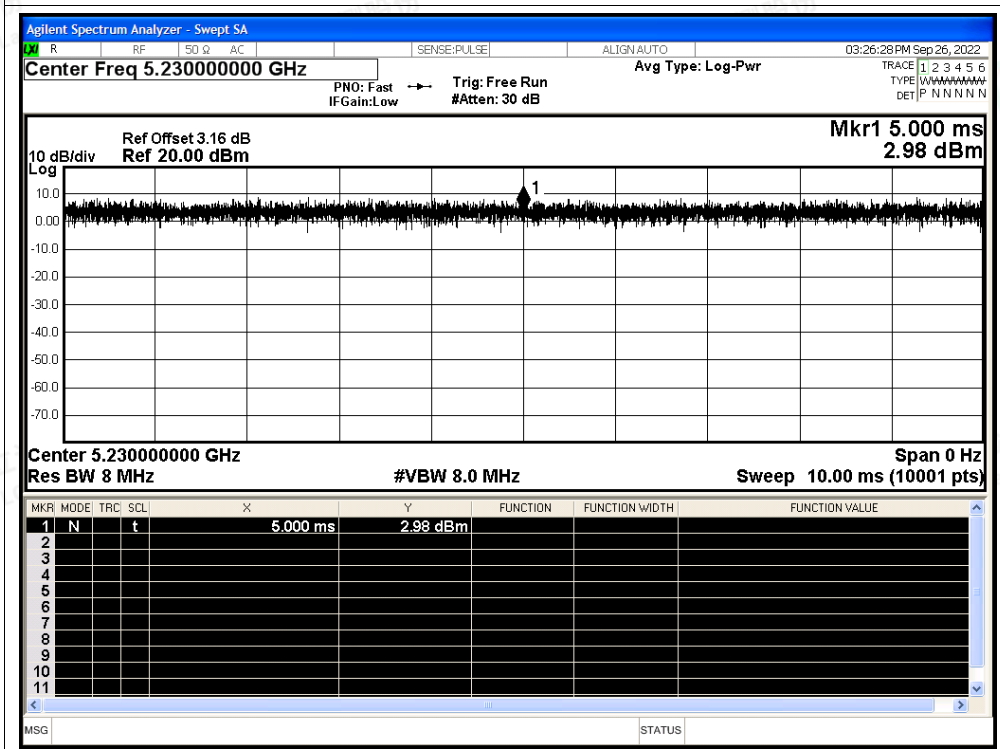




Duty Cycle NVHT n40 5190MHz Ant1

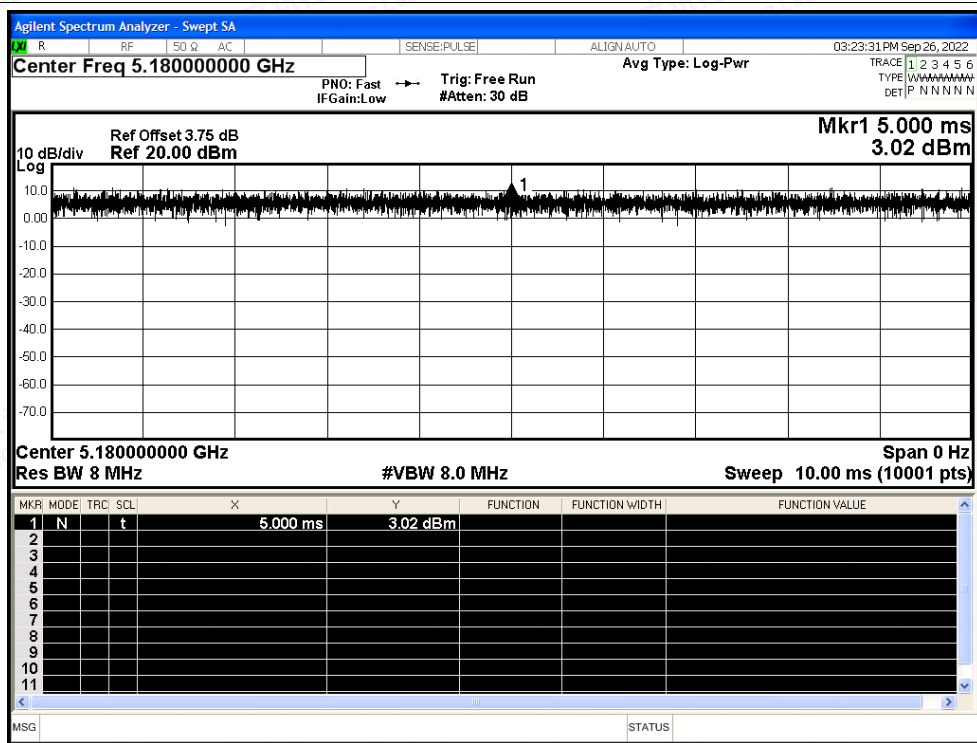


Duty Cycle NVHT n40 5230MHz Ant1

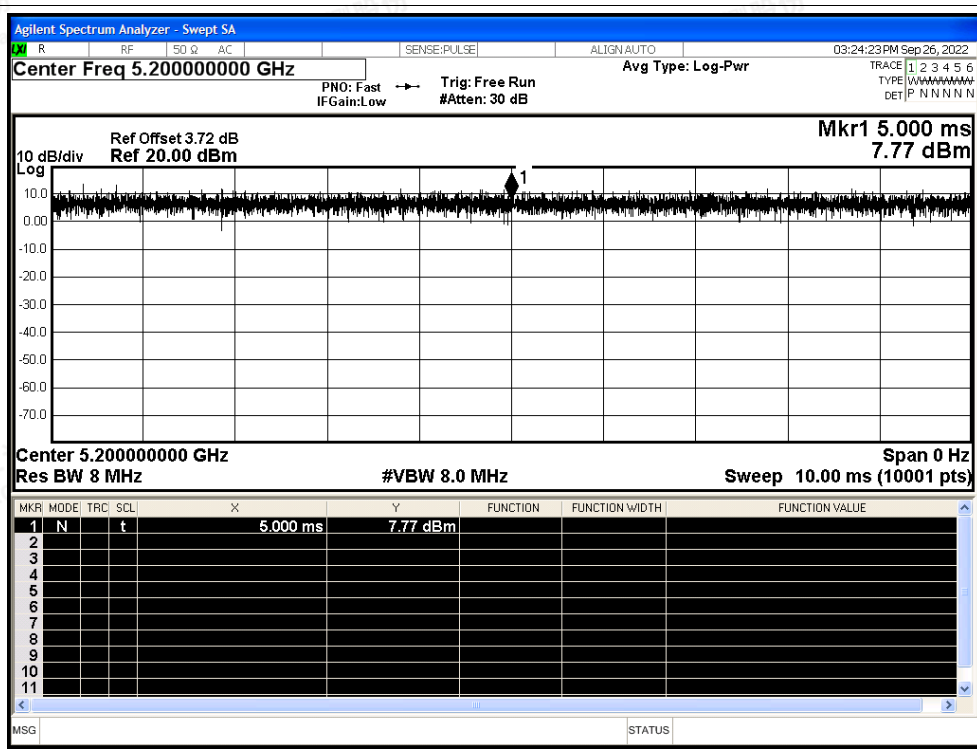




Duty Cycle NVHT ac20 5180MHz Ant1

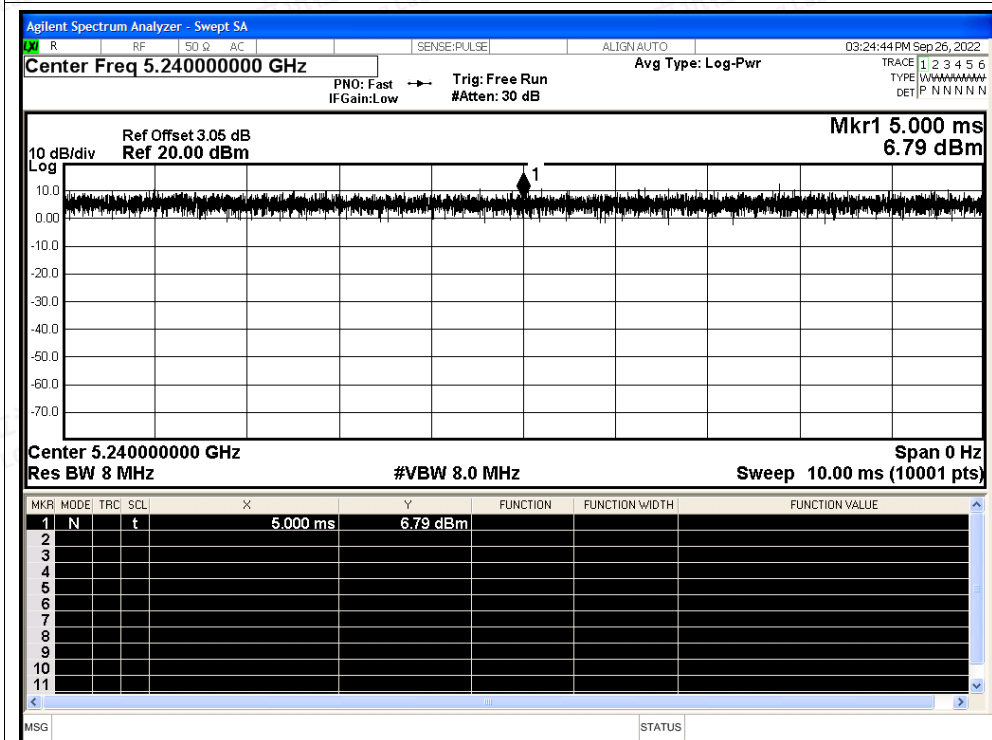


Duty Cycle NVHT ac20 5200MHz Ant1

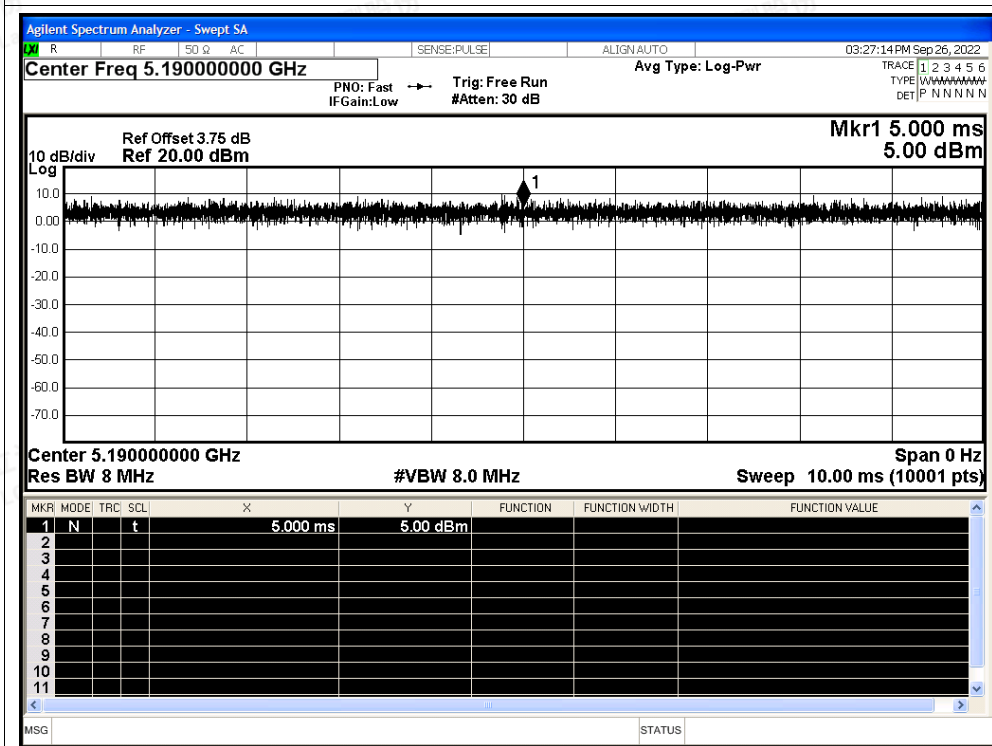




Duty Cycle NVHT ac20 5240MHz Ant1

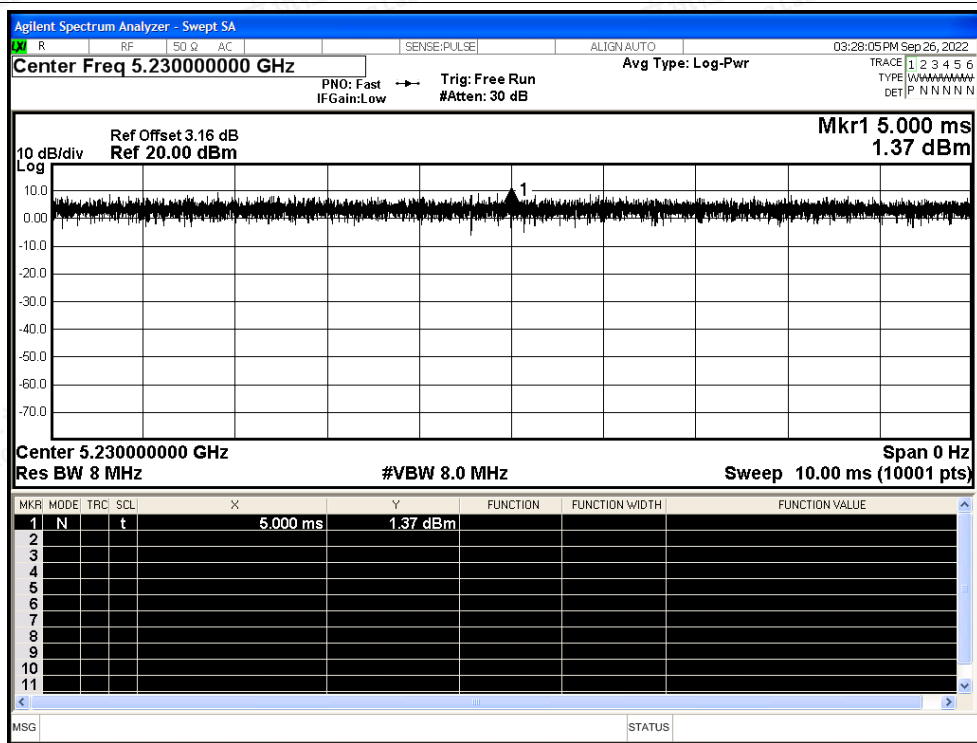


Duty Cycle NVHT ac40 5190MHz Ant1





Duty Cycle NVHT ac40 5230MHz Ant1



Duty Cycle NVHT ac80 5210MHz Ant1

