



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: fixed wireless phone

Test Model: F151

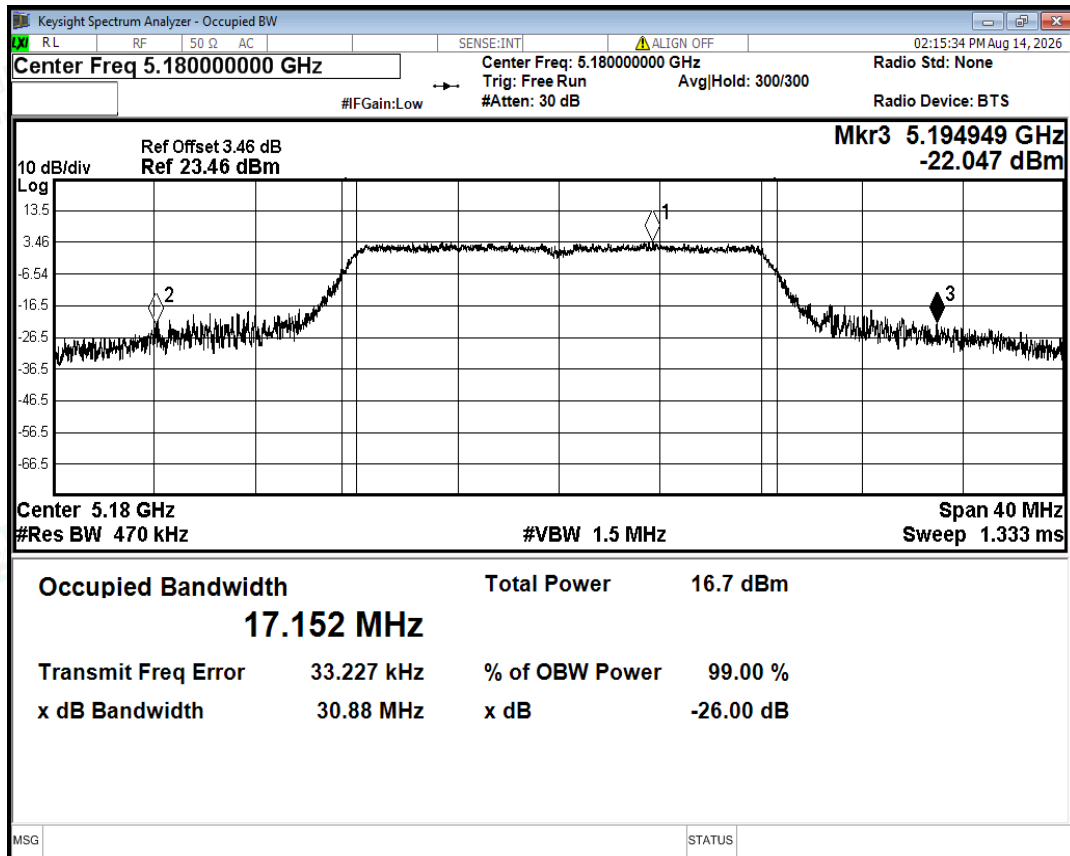
Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	55.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

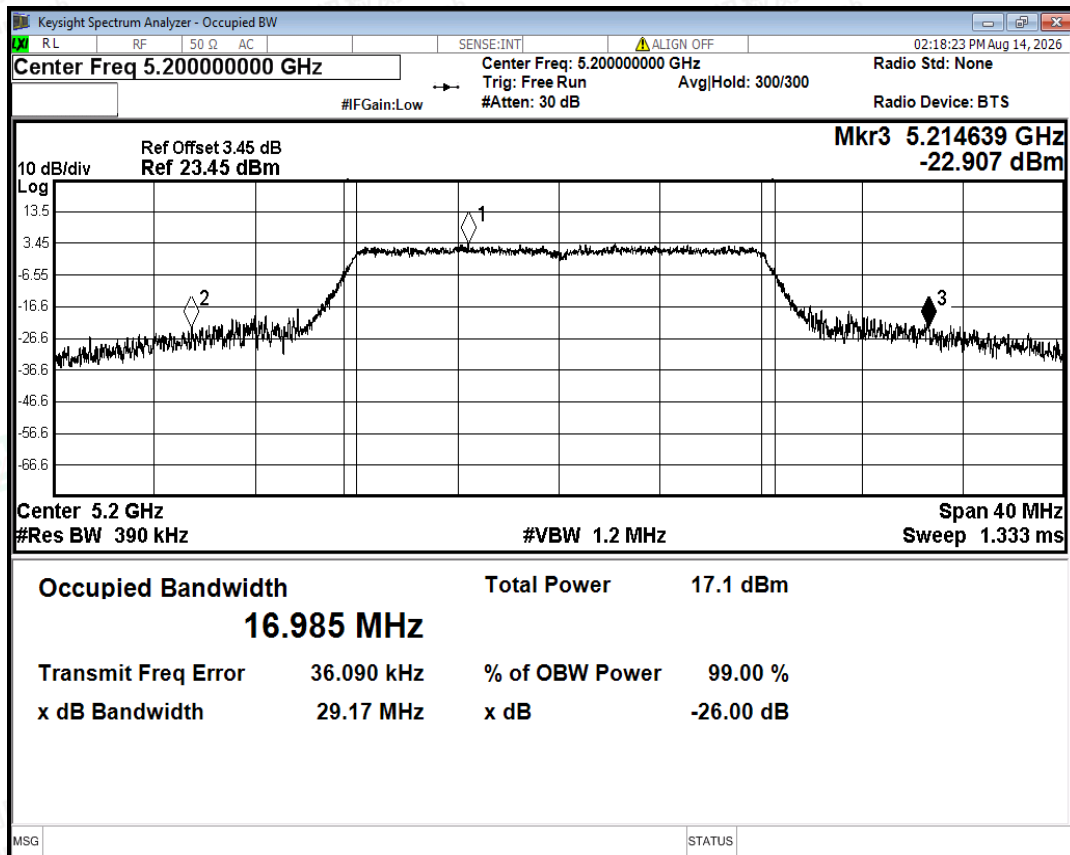


D.1 -26dB Bandwidth

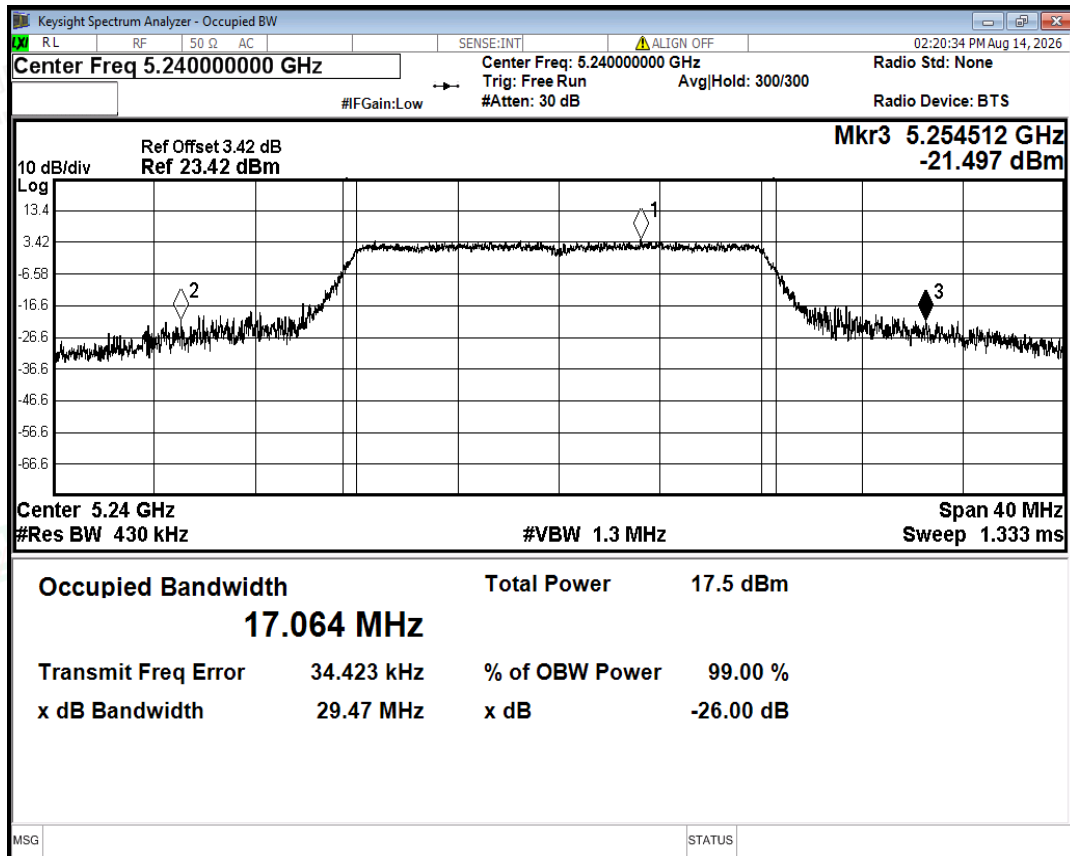
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	30.88
NVNT	a	5200	Ant1	29.17
NVNT	a	5240	Ant1	29.47
NVNT	n20	5180	Ant1	31.92
NVNT	n20	5200	Ant1	34.32
NVNT	n20	5240	Ant1	31.73
NVNT	n40	5190	Ant1	46.19
NVNT	n40	5230	Ant1	44.25
NVNT	ac20	5180	Ant1	31.46
NVNT	ac20	5200	Ant1	33.41
NVNT	ac20	5240	Ant1	34.44
NVNT	ac40	5190	Ant1	44.98
NVNT	ac40	5230	Ant1	48.1
NVNT	ac80	5210	Ant1	90.61
NVNT	ac160	5250	Ant1	164.1



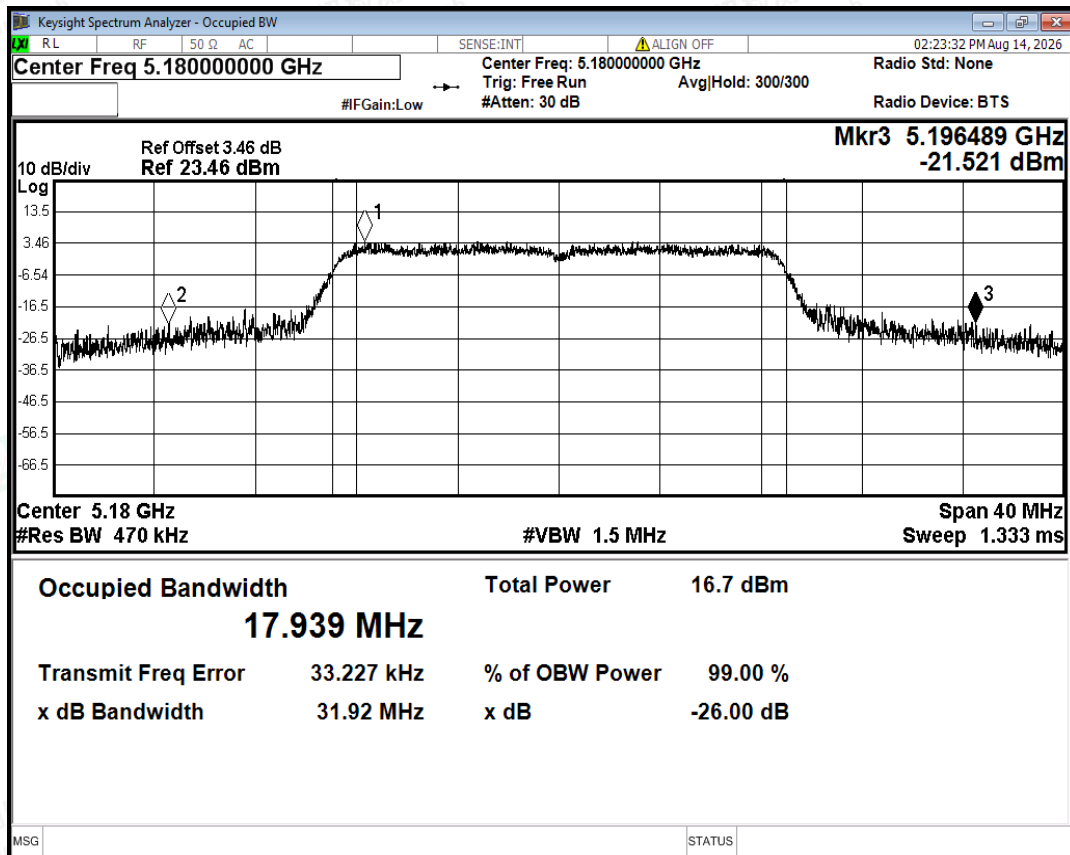
-26dB Bandwidth NVNT a 5180MHz Ant1



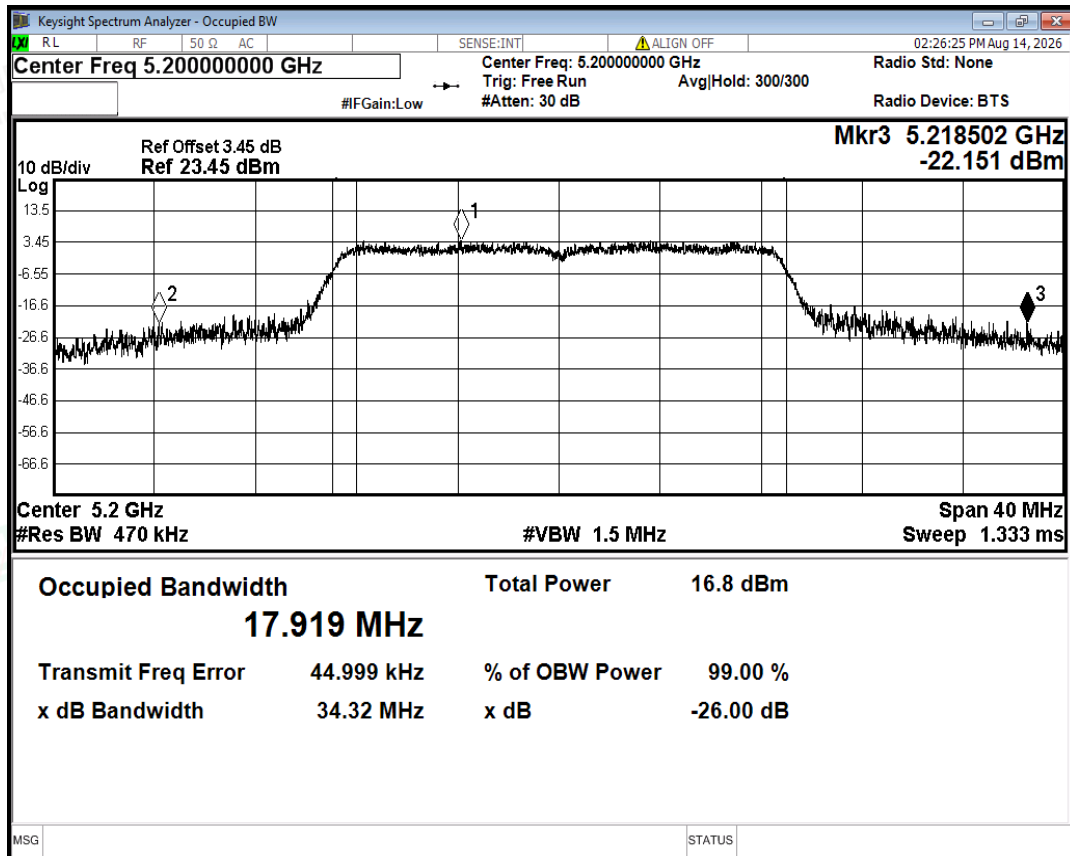
-26dB Bandwidth NVNT a 5200MHz Ant1



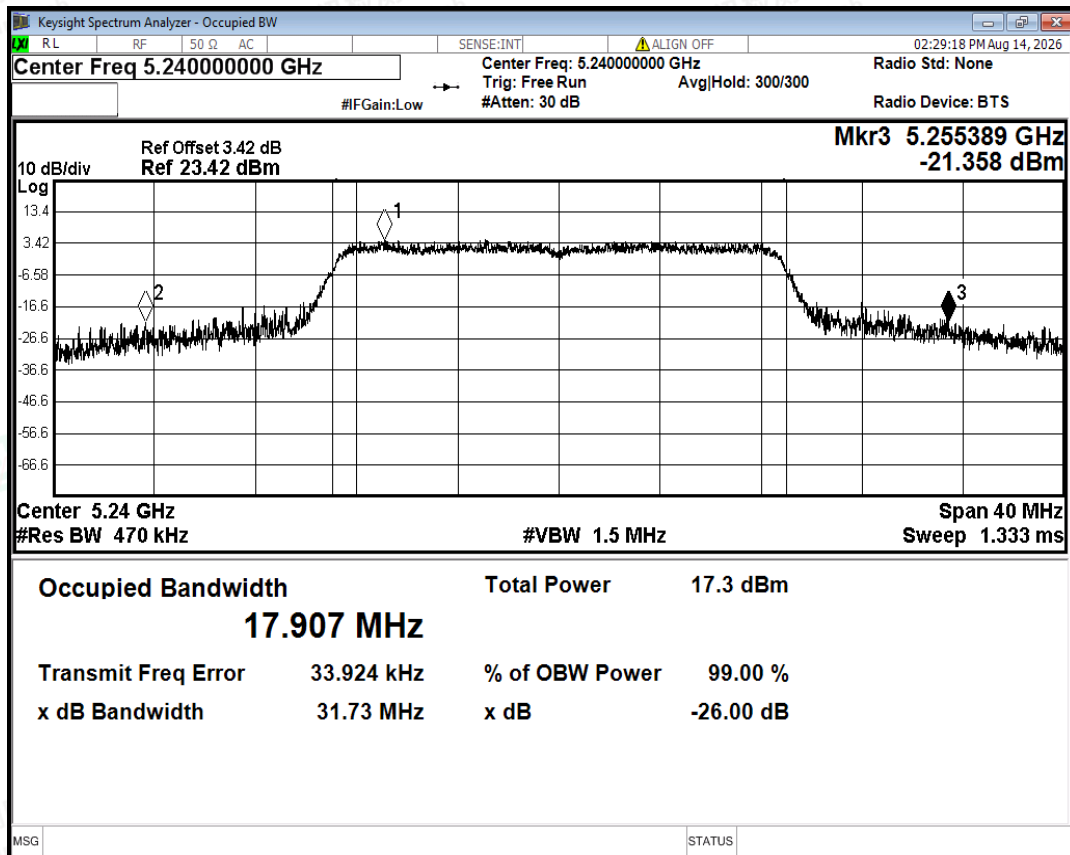
-26dB Bandwidth NVNT a 5240MHz Ant1



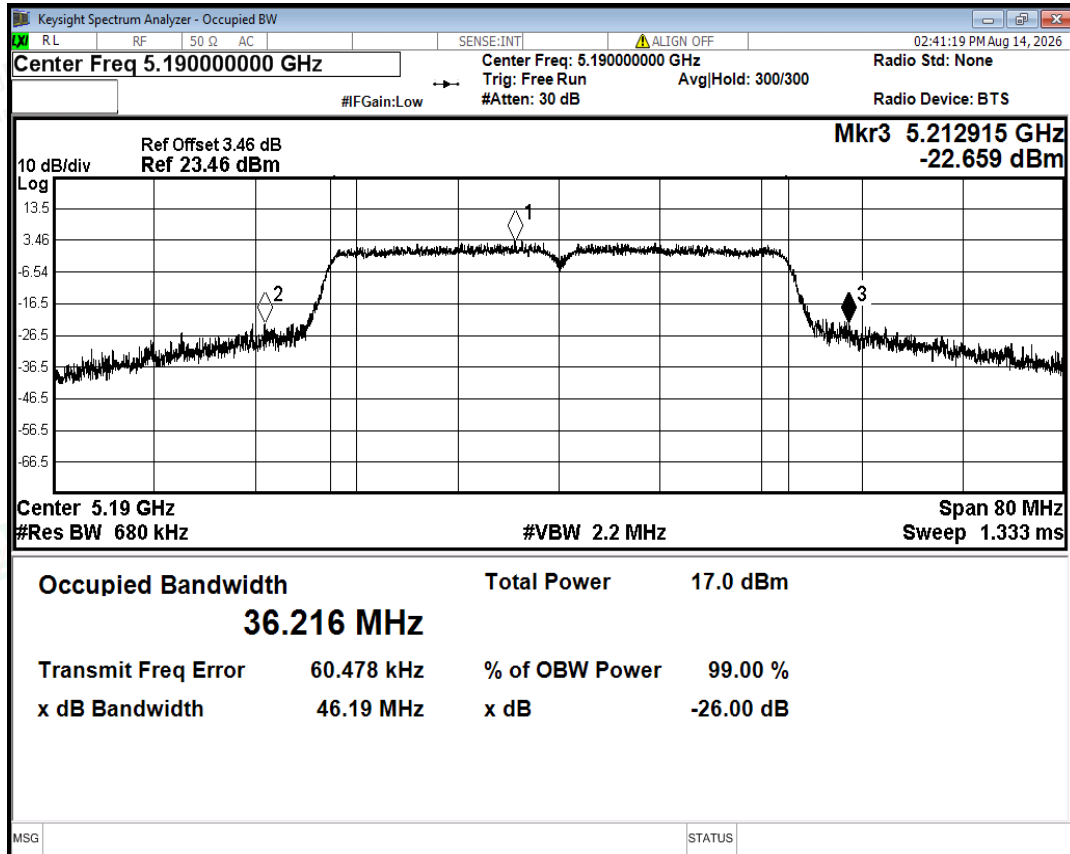
-26dB Bandwidth NVNT n20 5180MHz Ant1



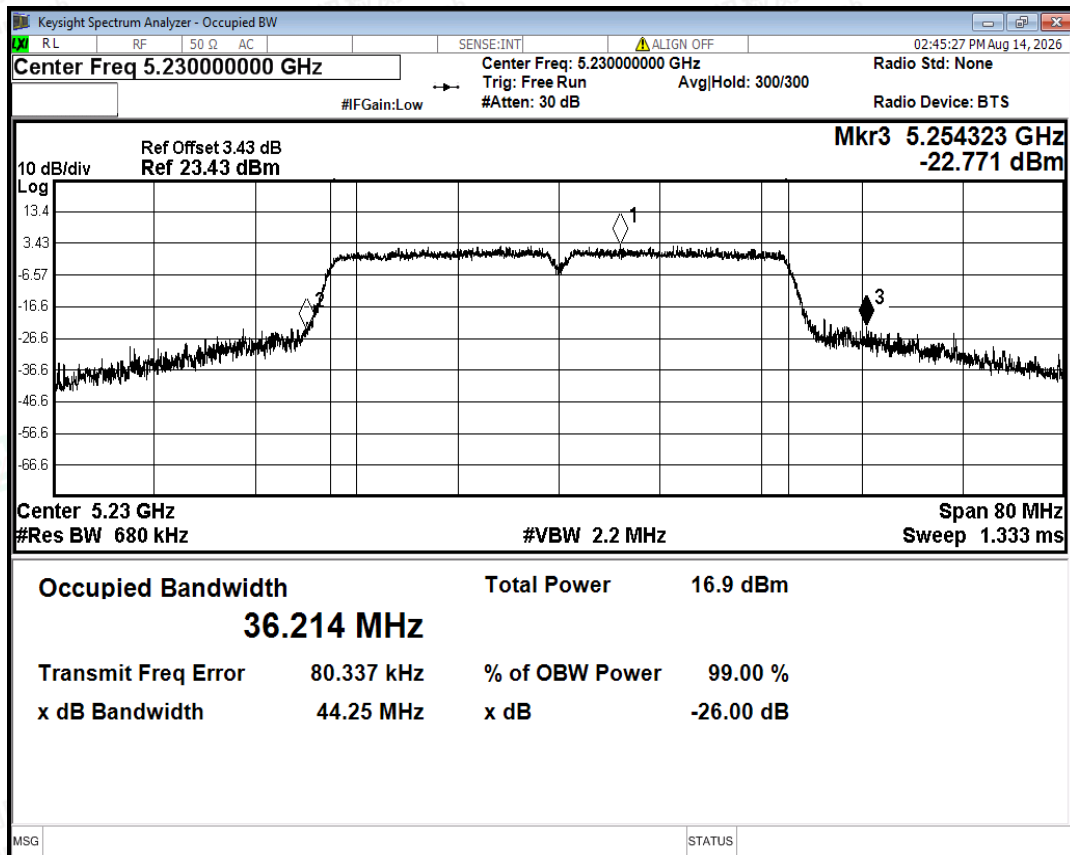
-26dB Bandwidth NVNT n20 5200MHz Ant1



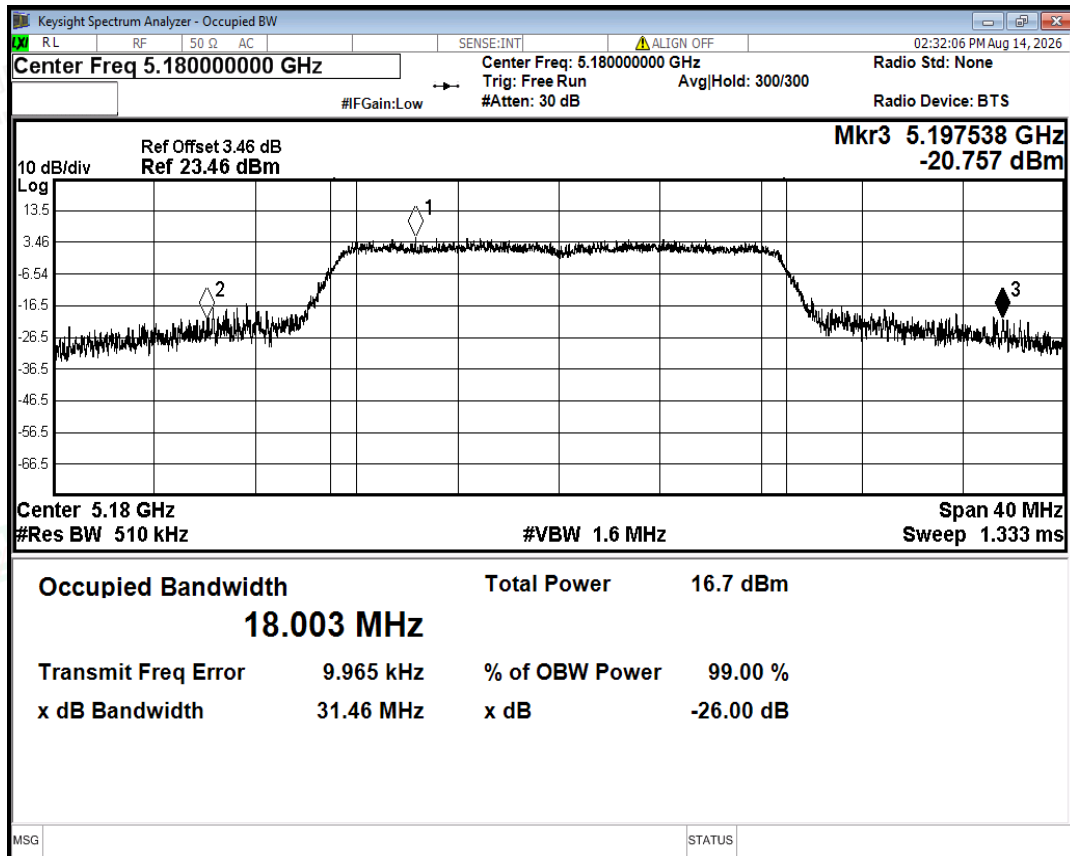
-26dB Bandwidth NVNT n20 5240MHz Ant1



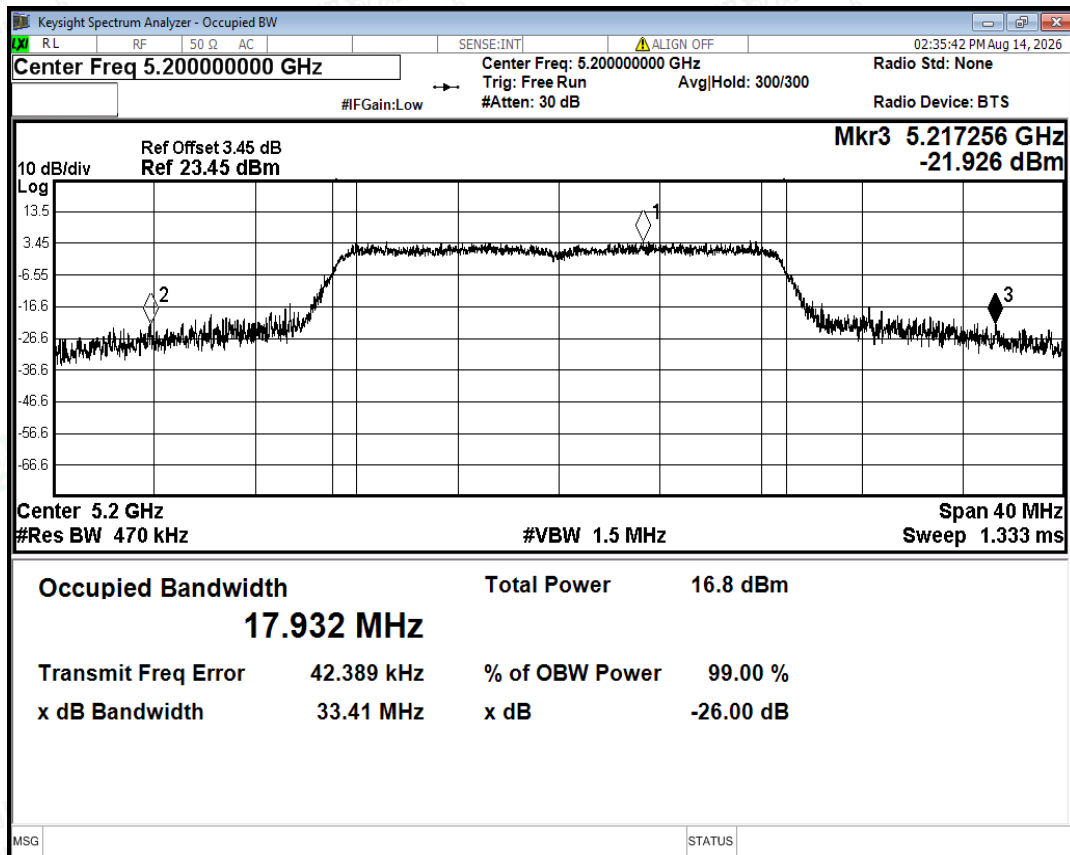
-26dB Bandwidth NVNT n40 5190MHz Ant1



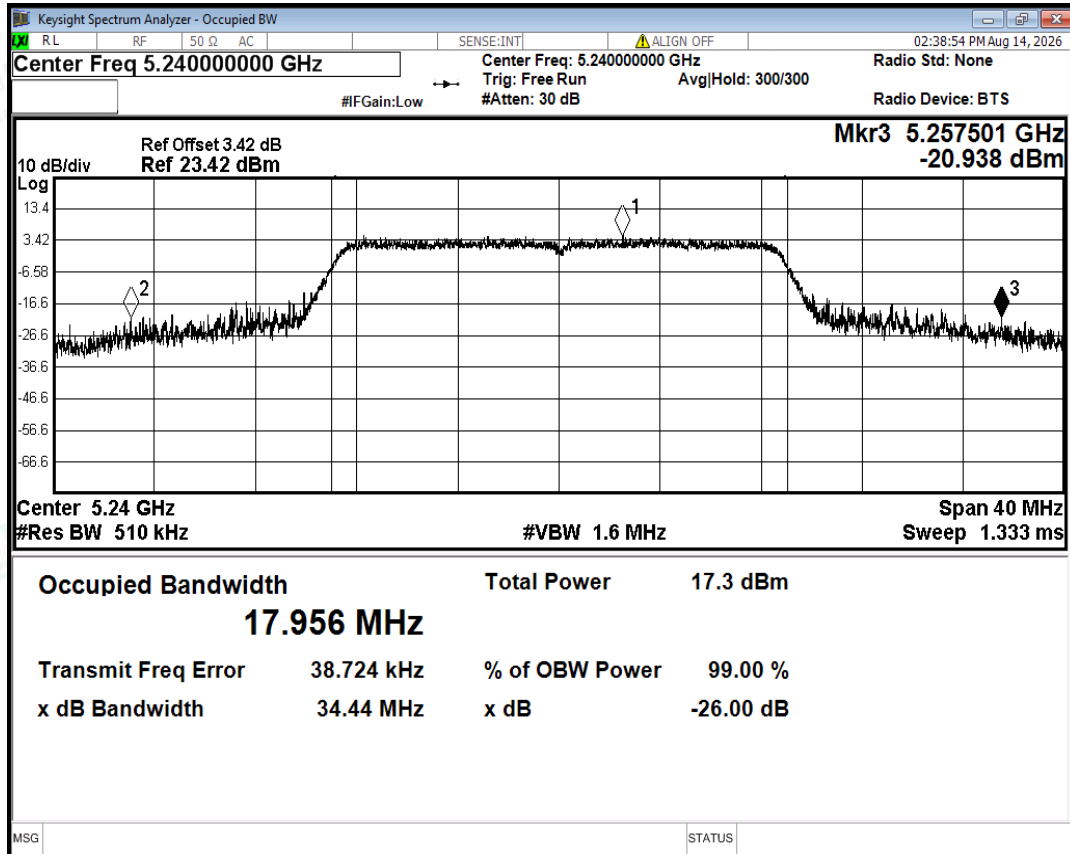
-26dB Bandwidth NVNT n40 5230MHz Ant1



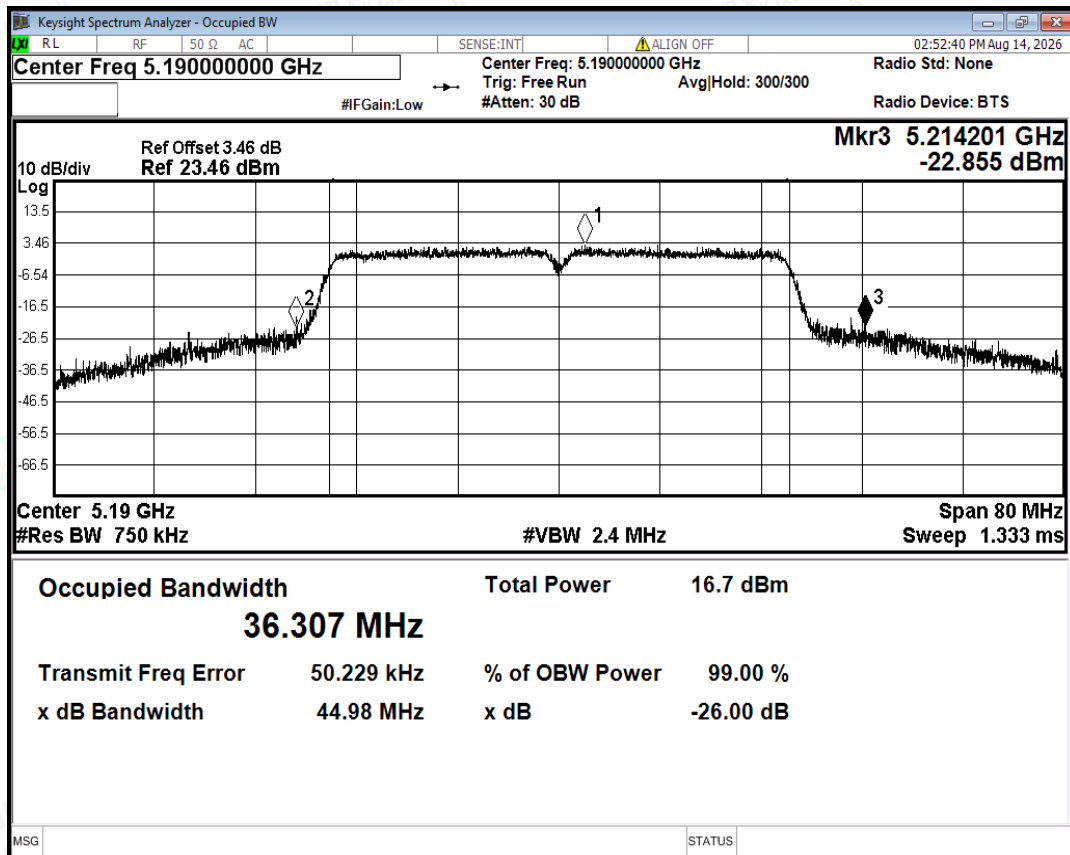
-26dB Bandwidth NVNT ac20 5180MHz Ant1



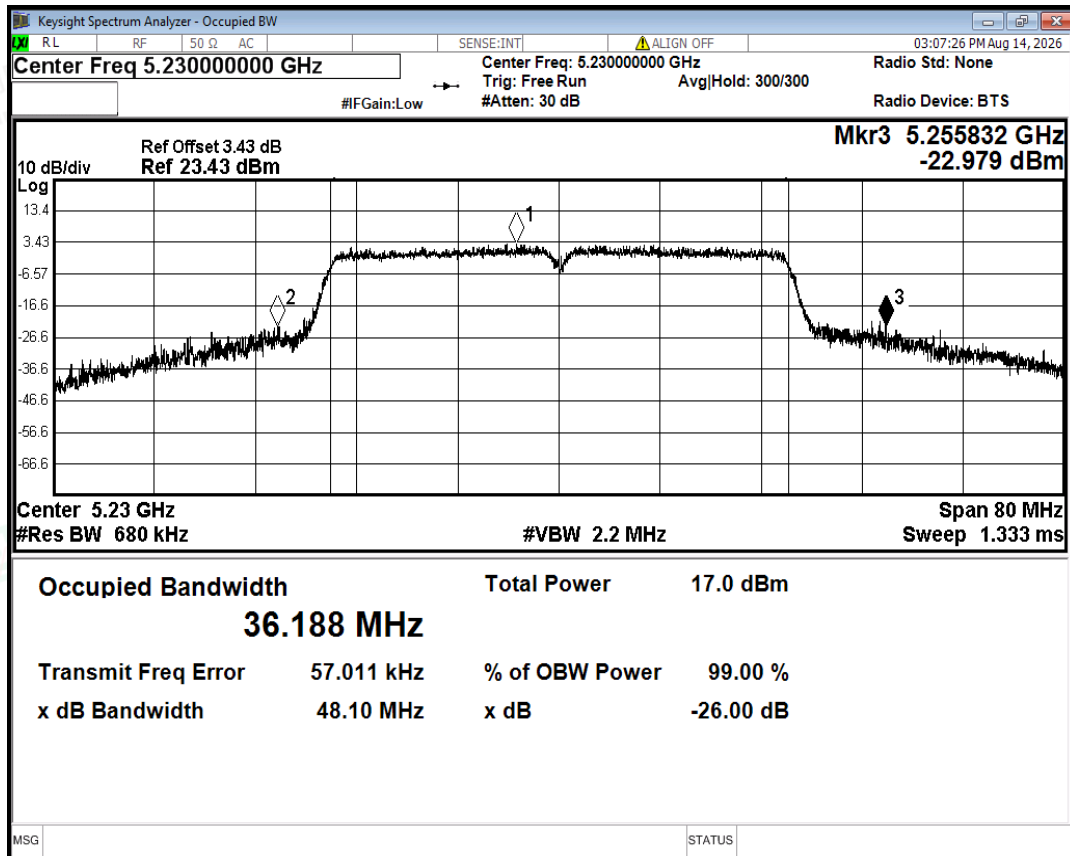
-26dB Bandwidth NVNT ac20 5200MHz Ant1



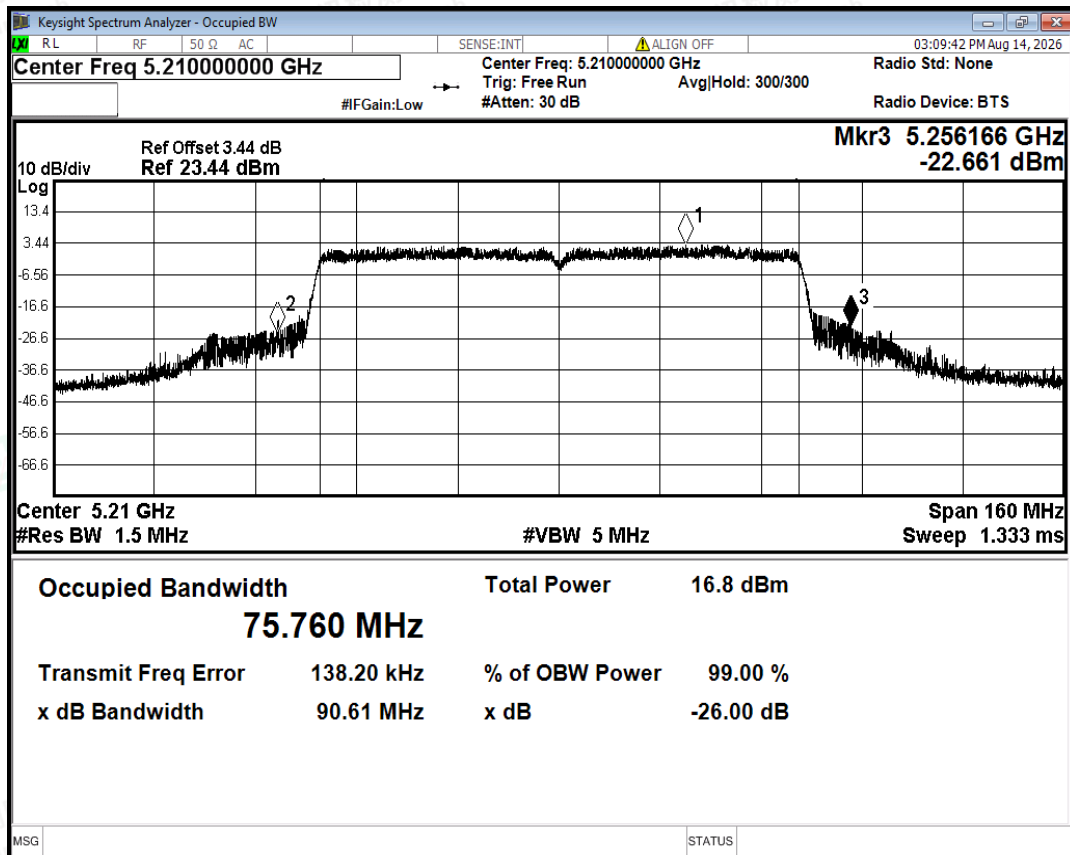
-26dB Bandwidth NVNT ac20 5240MHz Ant1



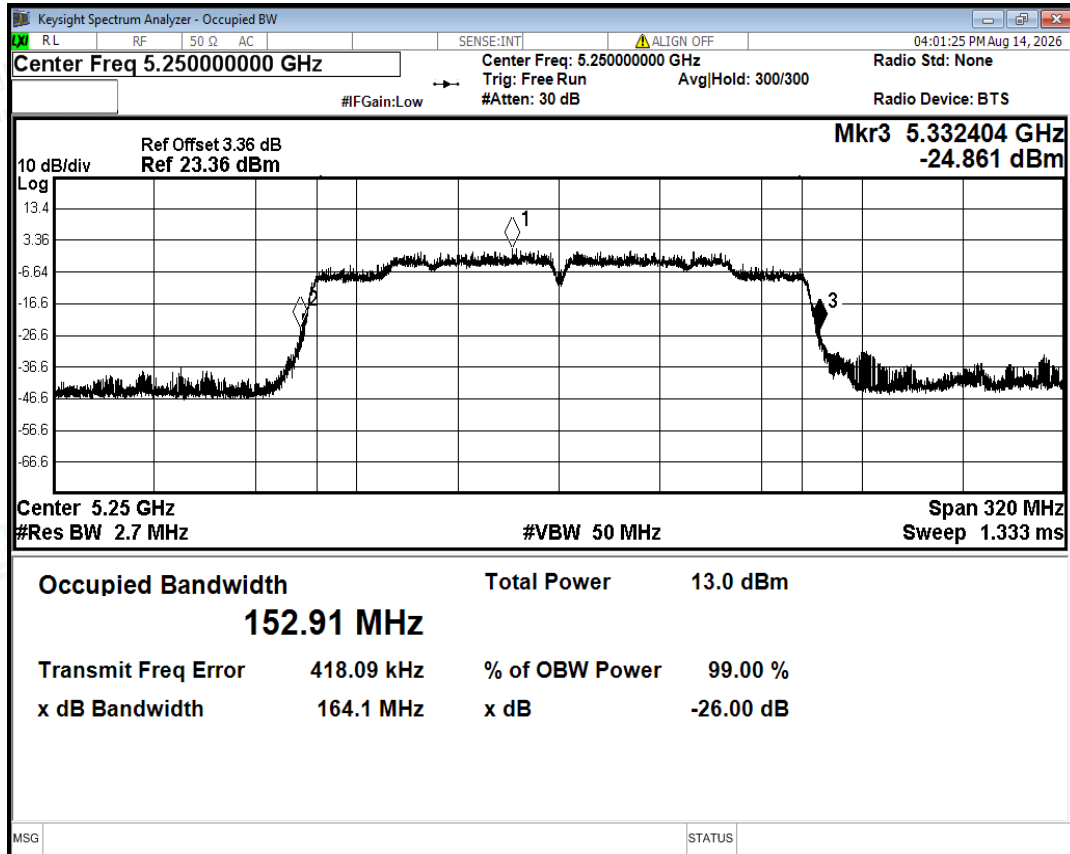
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac160 5250MHz Ant1



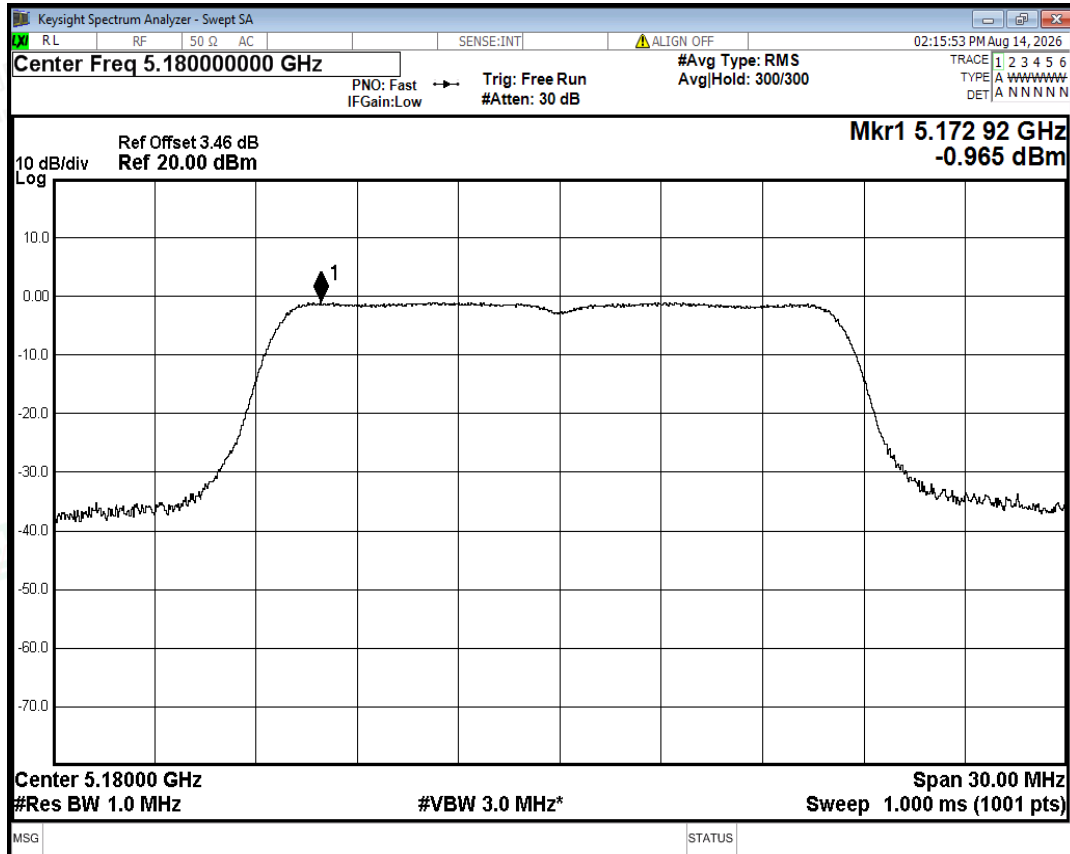
D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	a	5180	Ant1	10.34	0.18	10.52	0.01127	24	Pass
NVNT	a	5200	Ant1	10.71	0.18	10.89	0.01227	24	Pass
NVNT	a	5240	Ant1	11.16	0.18	11.34	0.01361	24	Pass
NVNT	n20	5180	Ant1	9.92	0.25	10.17	0.0104	24	Pass
NVNT	n20	5200	Ant1	9.98	0.25	10.23	0.01054	24	Pass
NVNT	n20	5240	Ant1	10.38	0.22	10.6	0.01148	24	Pass
NVNT	n40	5190	Ant1	9.84	0.42	10.26	0.01062	24	Pass
NVNT	n40	5230	Ant1	9.69	0.49	10.18	0.01042	24	Pass
NVNT	ac20	5180	Ant1	9.95	0.21	10.16	0.01038	24	Pass
NVNT	ac20	5200	Ant1	10	0.21	10.21	0.0105	24	Pass
NVNT	ac20	5240	Ant1	10.48	0.21	10.69	0.01172	24	Pass
NVNT	ac40	5190	Ant1	9.28	0.41	9.69	0.00931	24	Pass
NVNT	ac40	5230	Ant1	9.71	0.42	10.13	0.0103	24	Pass
NVNT	ac80	5210	Ant1	8.37	0.79	9.16	0.00824	24	Pass
NVNT	ac160 (Single contiguous 160MHz channel)	5250	Ant1	7.02	1.18	8.2	0.00661	24	Pass

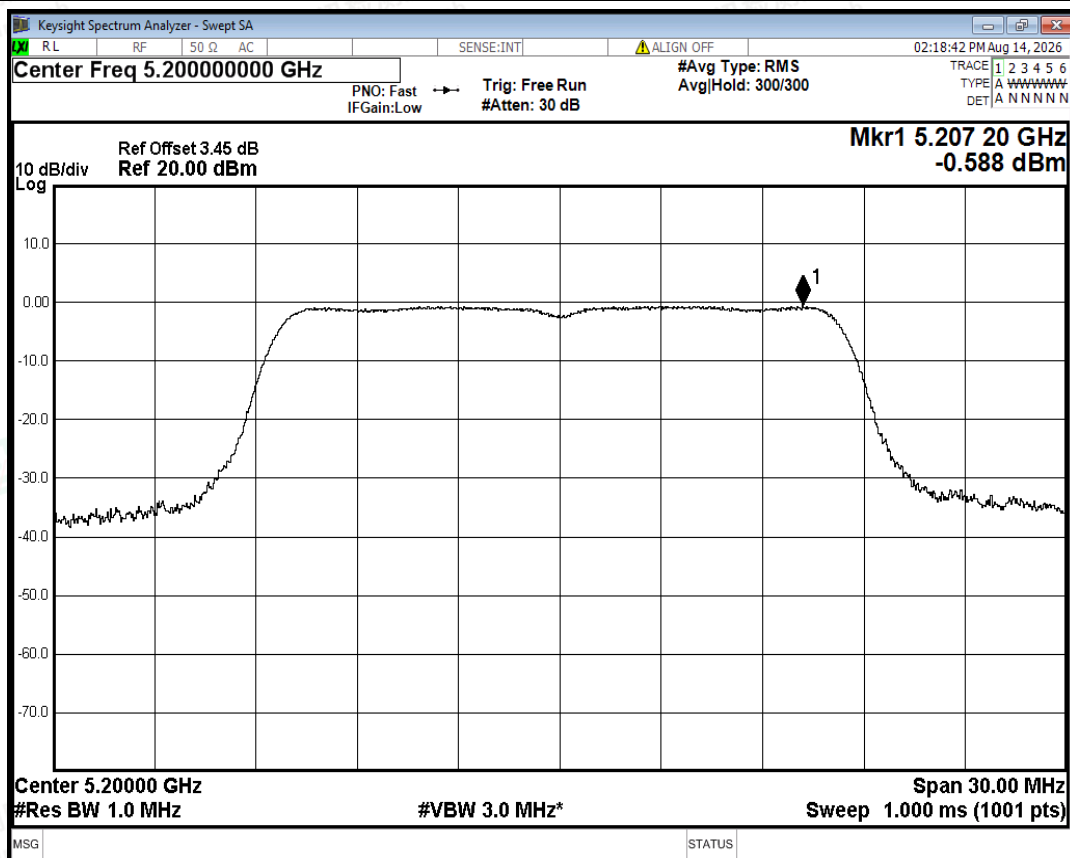


D.3 Maximum Power Spectral Density Level

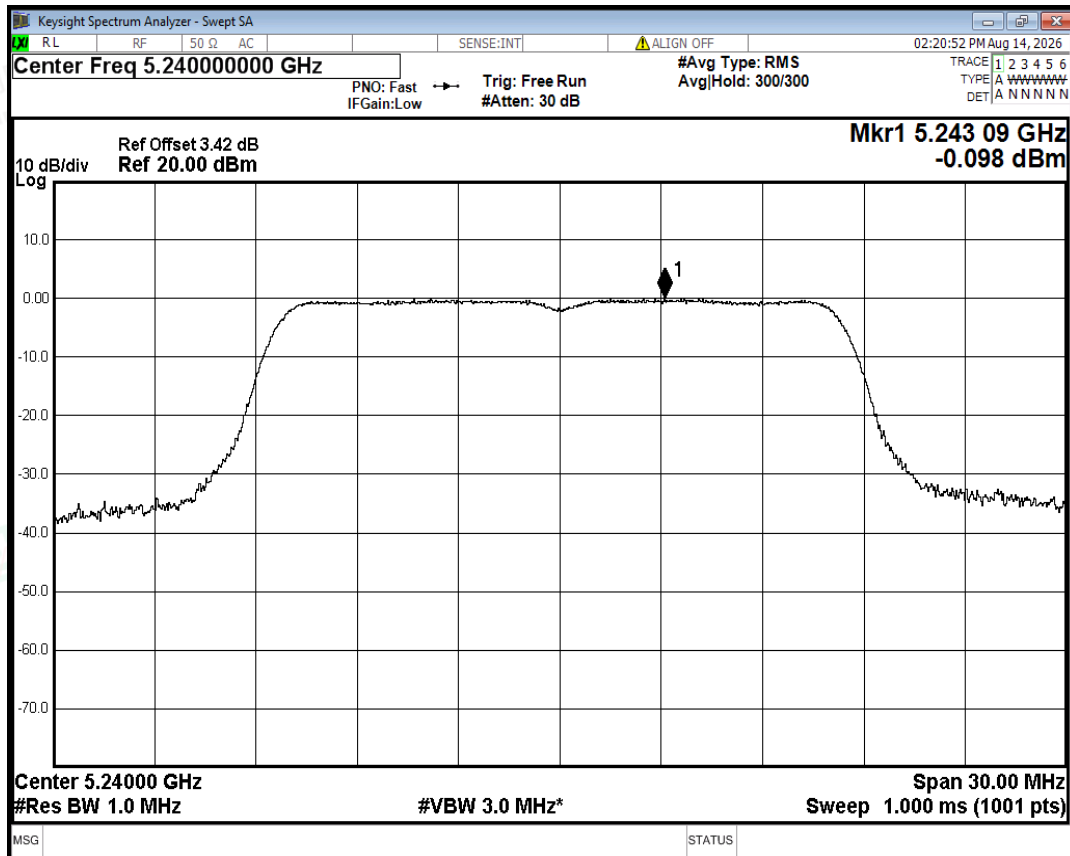
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-0.97	0.18	-0.78	11	Pass
NVNT	a	5200	Ant1	-0.59	0.18	-0.41	11	Pass
NVNT	a	5240	Ant1	-0.1	0.18	0.08	11	Pass
NVNT	n20	5180	Ant1	-1.6	0.25	-1.35	11	Pass
NVNT	n20	5200	Ant1	-1.36	0.25	-1.11	11	Pass
NVNT	n20	5240	Ant1	-0.86	0.22	-0.64	11	Pass
NVNT	n40	5190	Ant1	-4.76	0.42	-4.34	11	Pass
NVNT	n40	5230	Ant1	-4.72	0.49	-4.23	11	Pass
NVNT	ac20	5180	Ant1	-1.43	0.21	-1.22	11	Pass
NVNT	ac20	5200	Ant1	-1.41	0.21	-1.2	11	Pass
NVNT	ac20	5240	Ant1	-0.92	0.21	-0.71	11	Pass
NVNT	ac40	5190	Ant1	-5.05	0.41	-4.64	11	Pass
NVNT	ac40	5230	Ant1	-4.55	0.42	-4.13	11	Pass
NVNT	ac80	5210	Ant1	-8.95	0.79	-8.16	11	Pass
NVNT	ac160 (Single contiguous 160MHz channel)	5250	Ant1	-14.35	1.18	-13.17	11	Pass



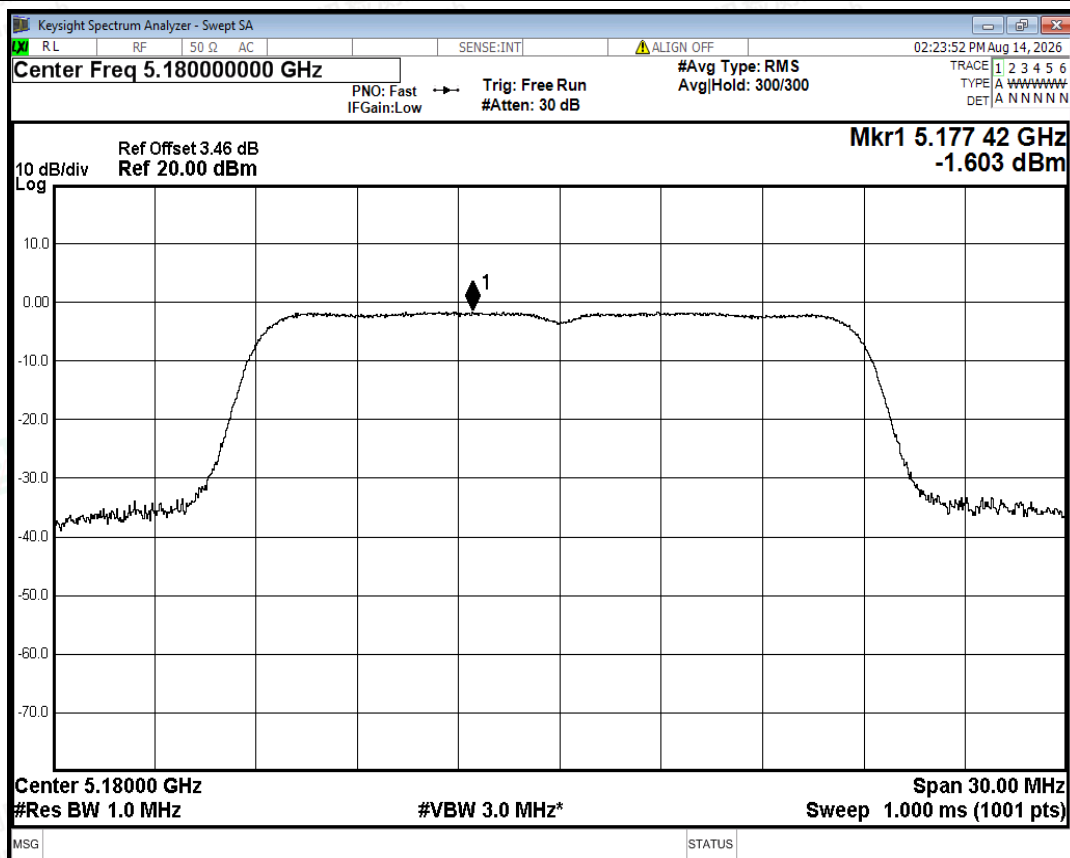
PSD NVNT a 5180MHz Ant1



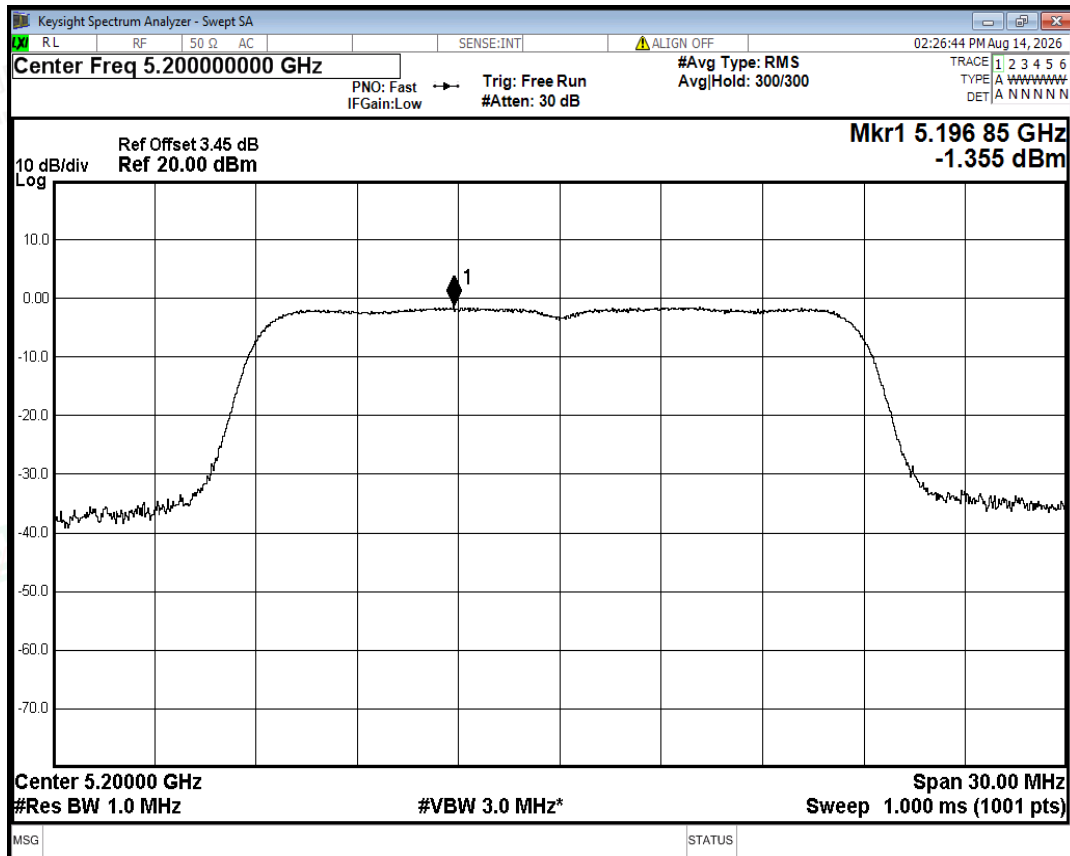
PSD NVNT a 5200MHz Ant1



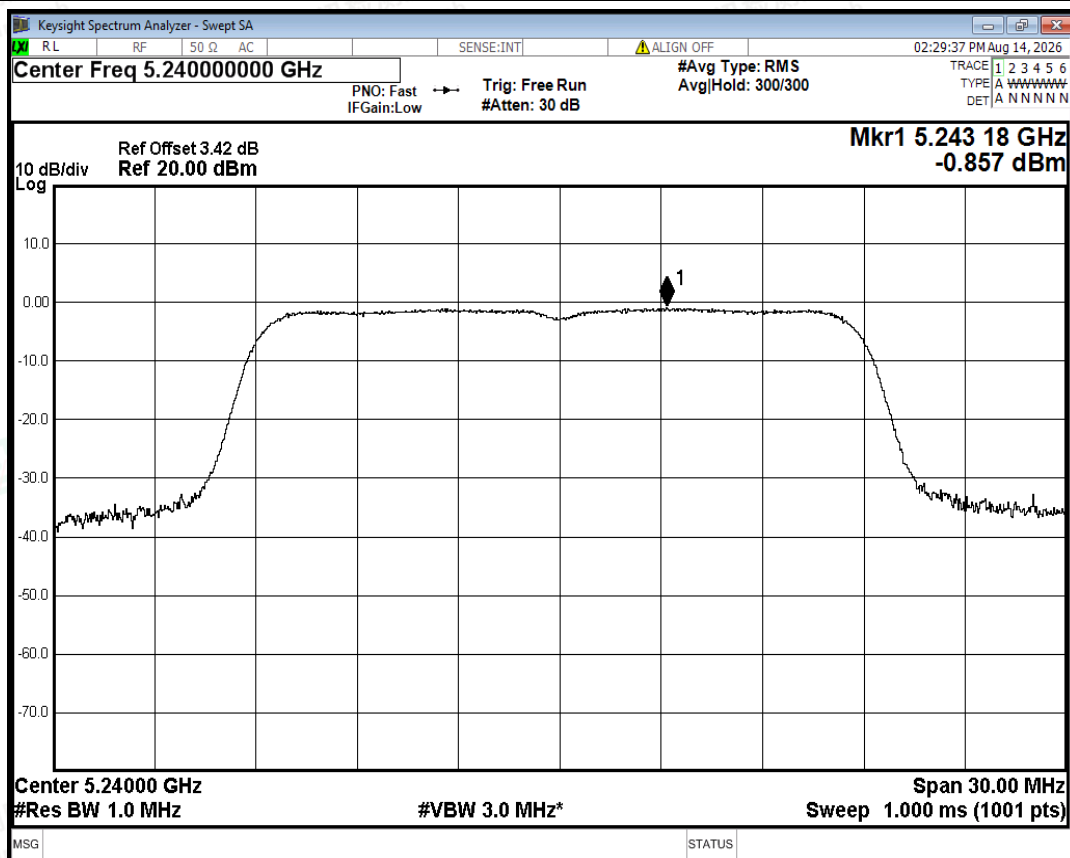
PSD NVNT a 5240MHz Ant1



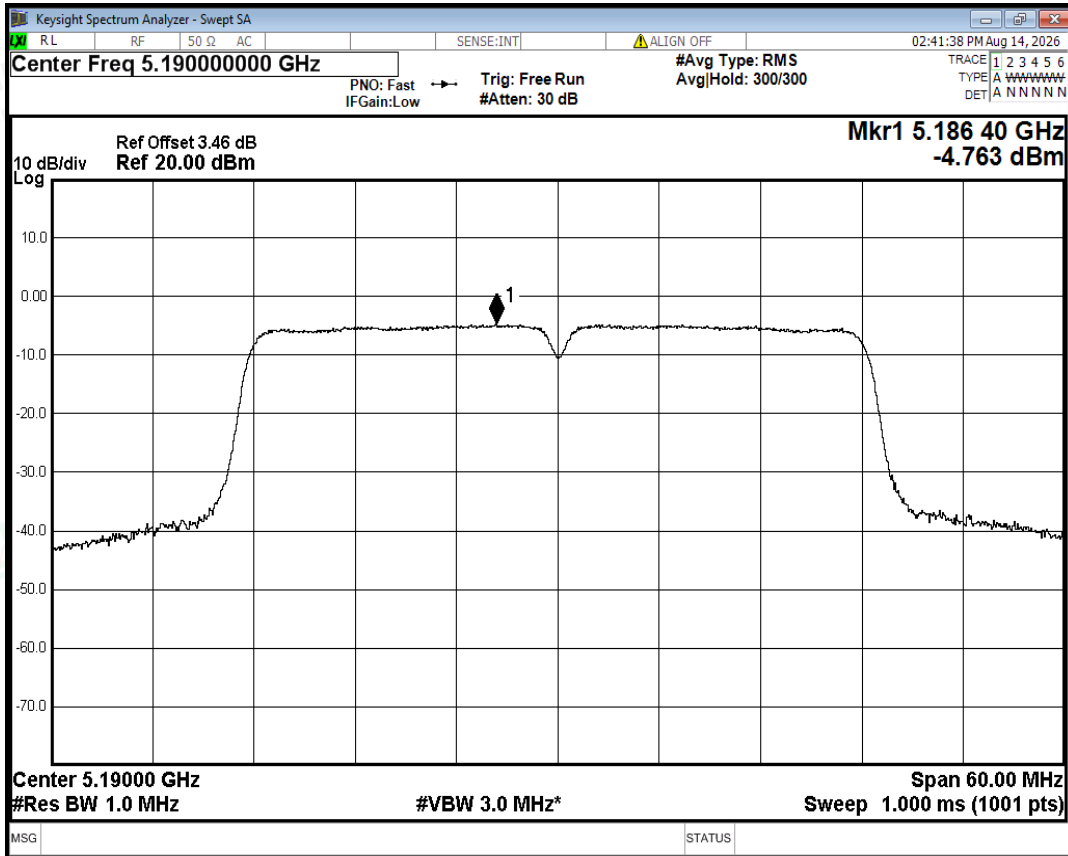
PSD NVNT n20 5180MHz Ant1



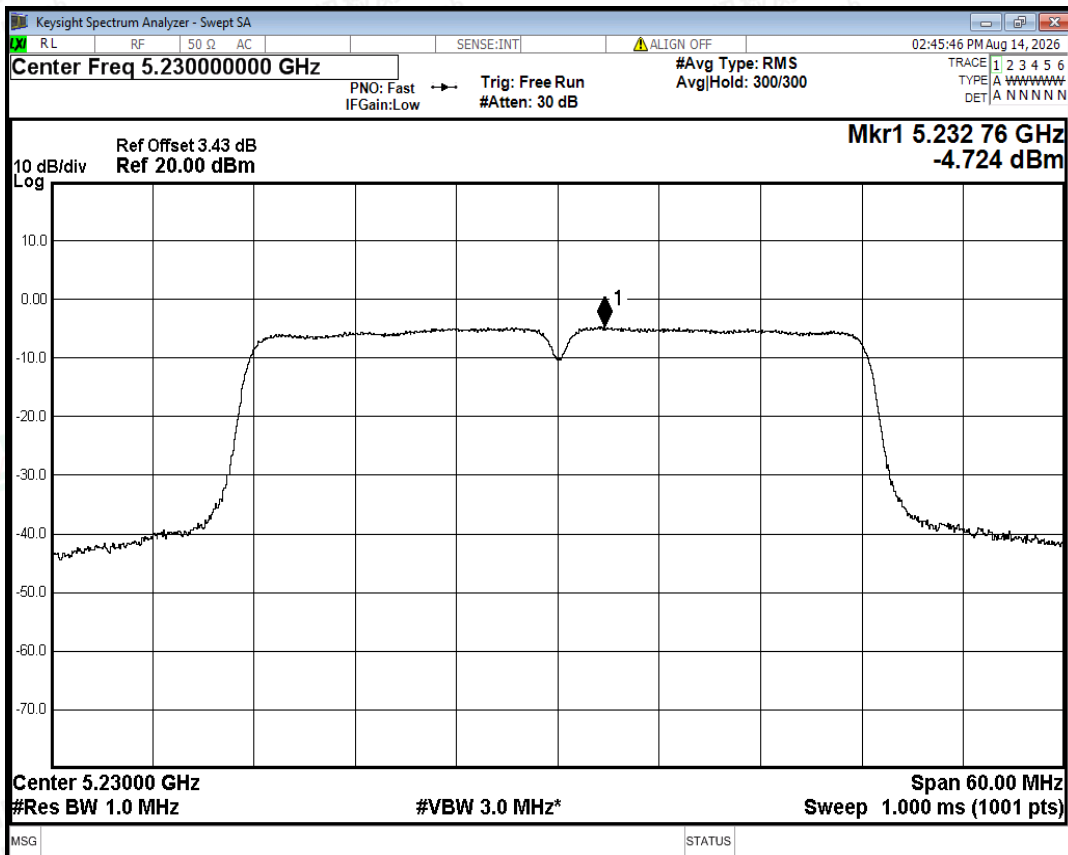
PSD NVNT n20 5200MHz Ant1



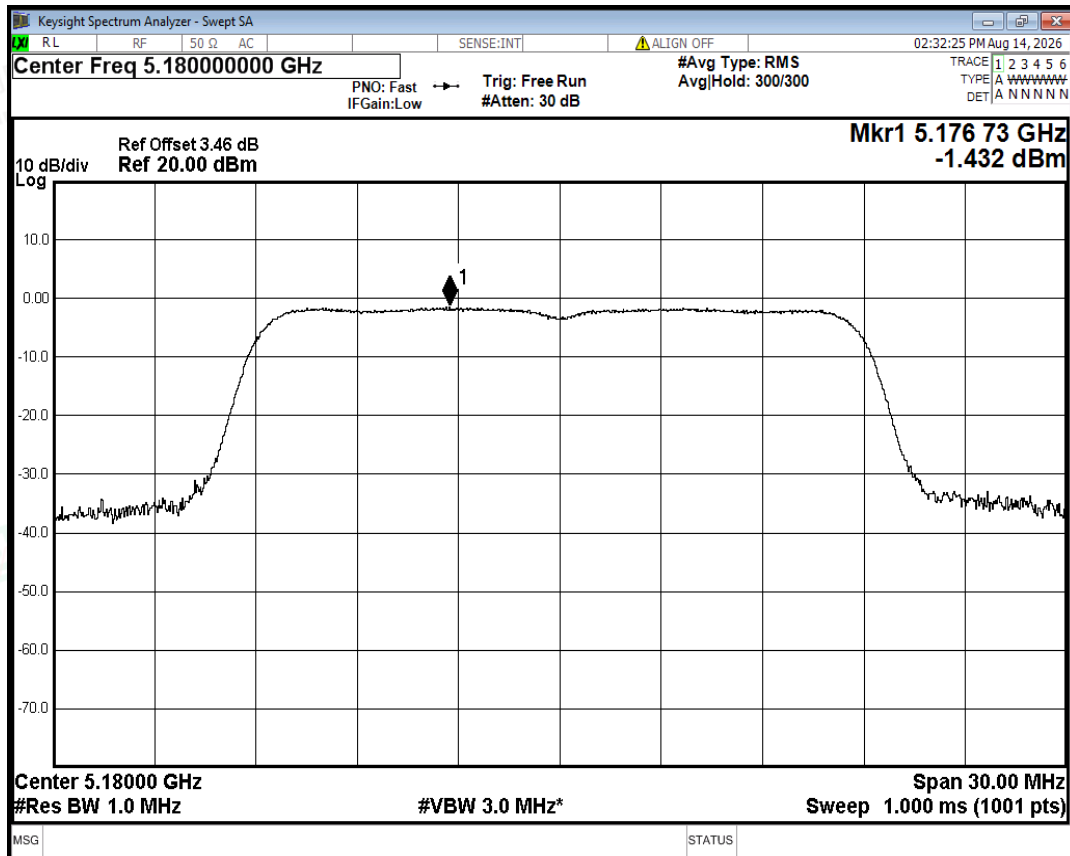
PSD NVNT n20 5240MHz Ant1



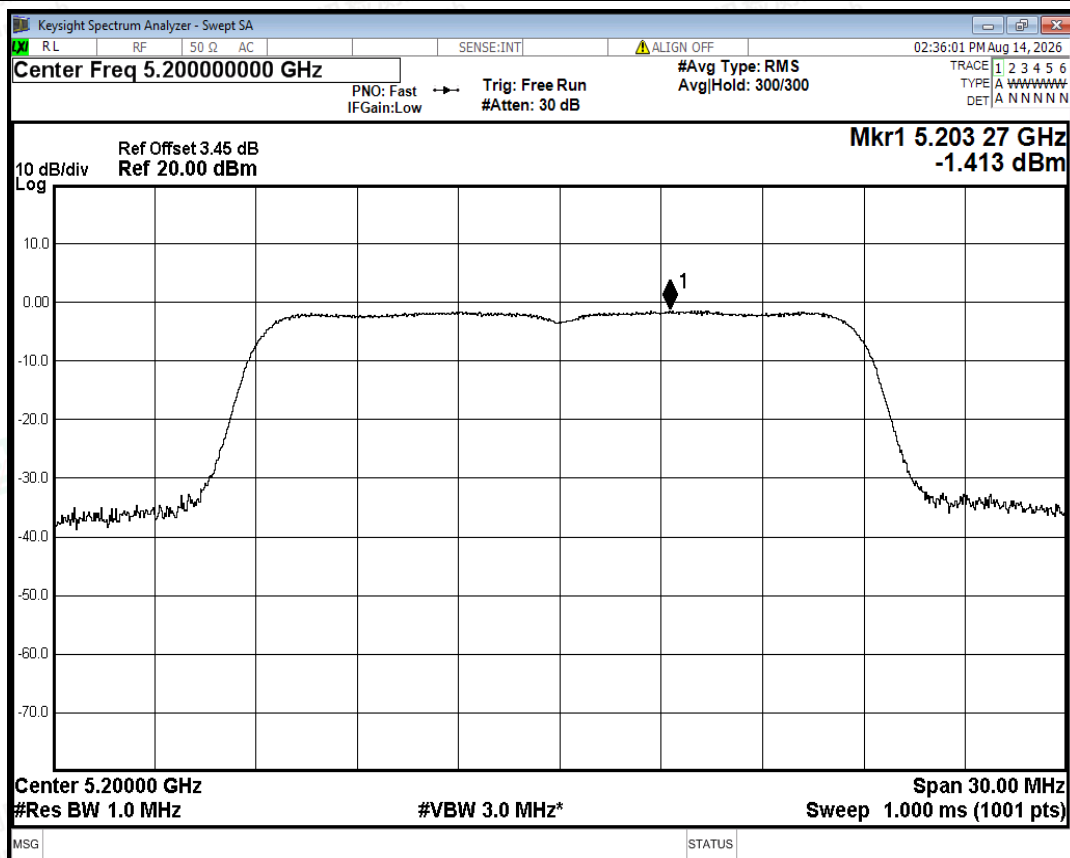
PSD NVNT n40 5190MHz Ant1



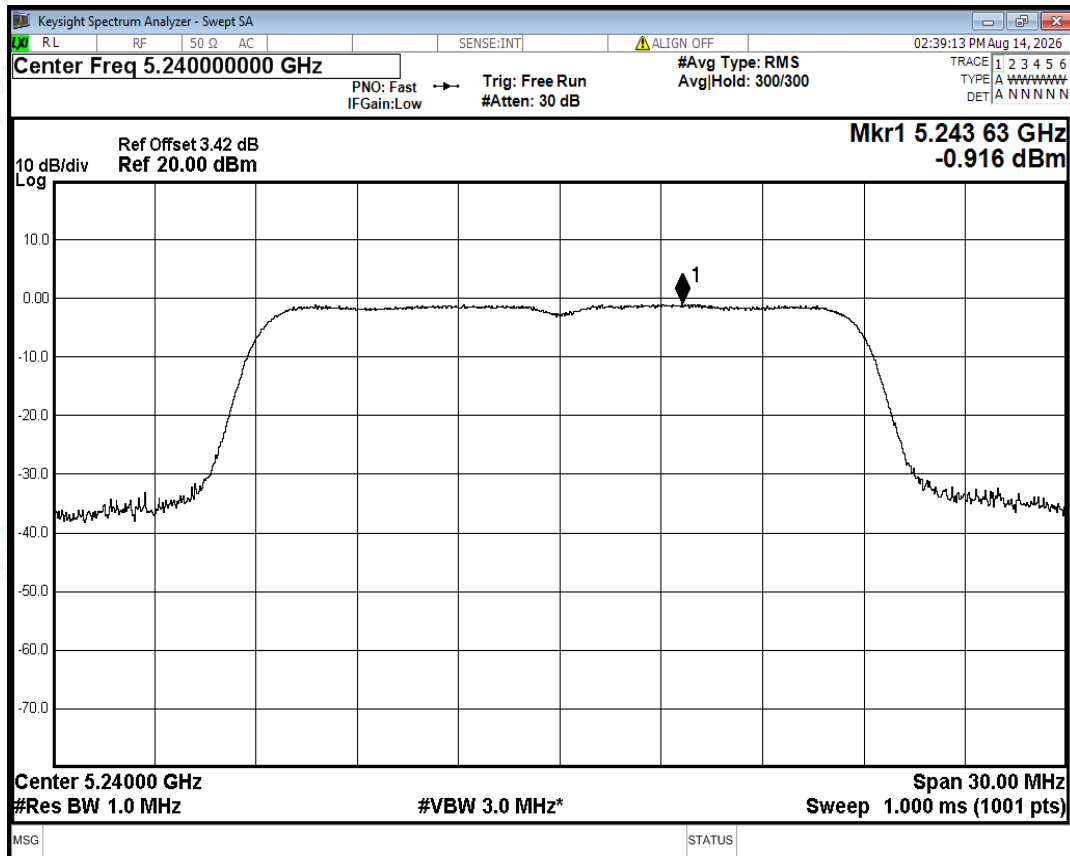
PSD NVNT n40 5230MHz Ant1



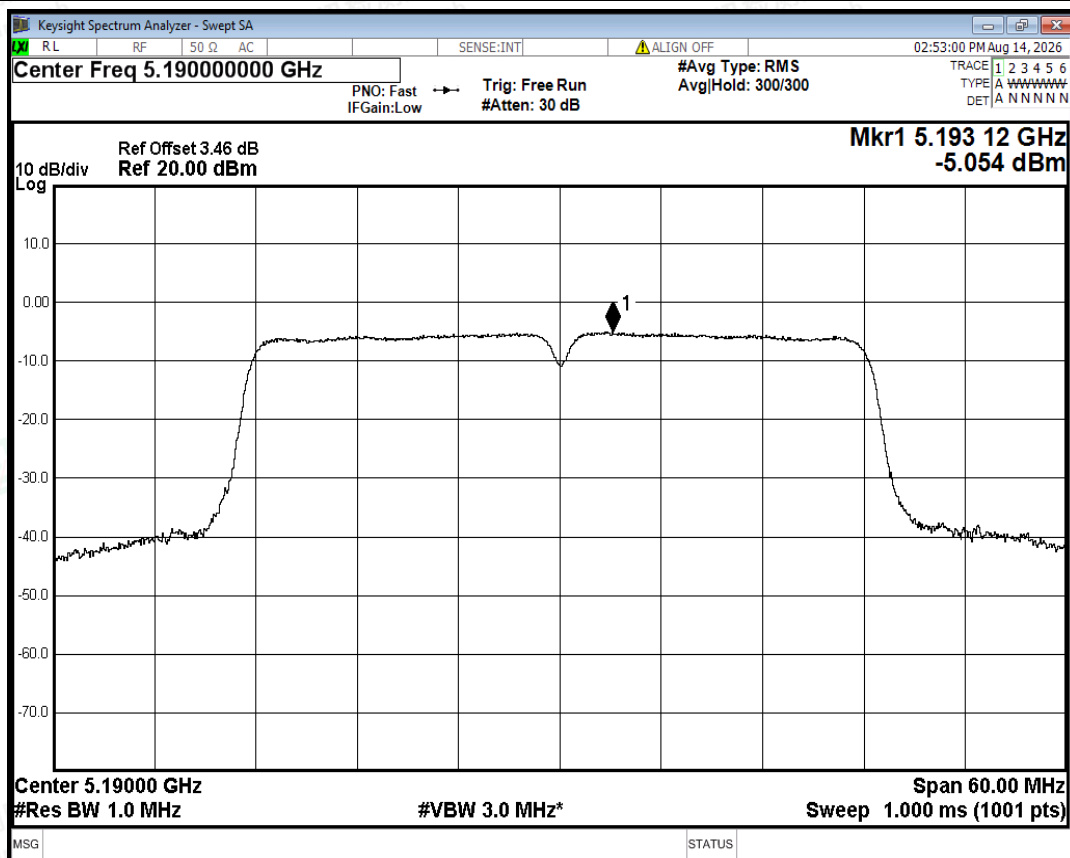
PSD NVNT ac20 5180MHz Ant1



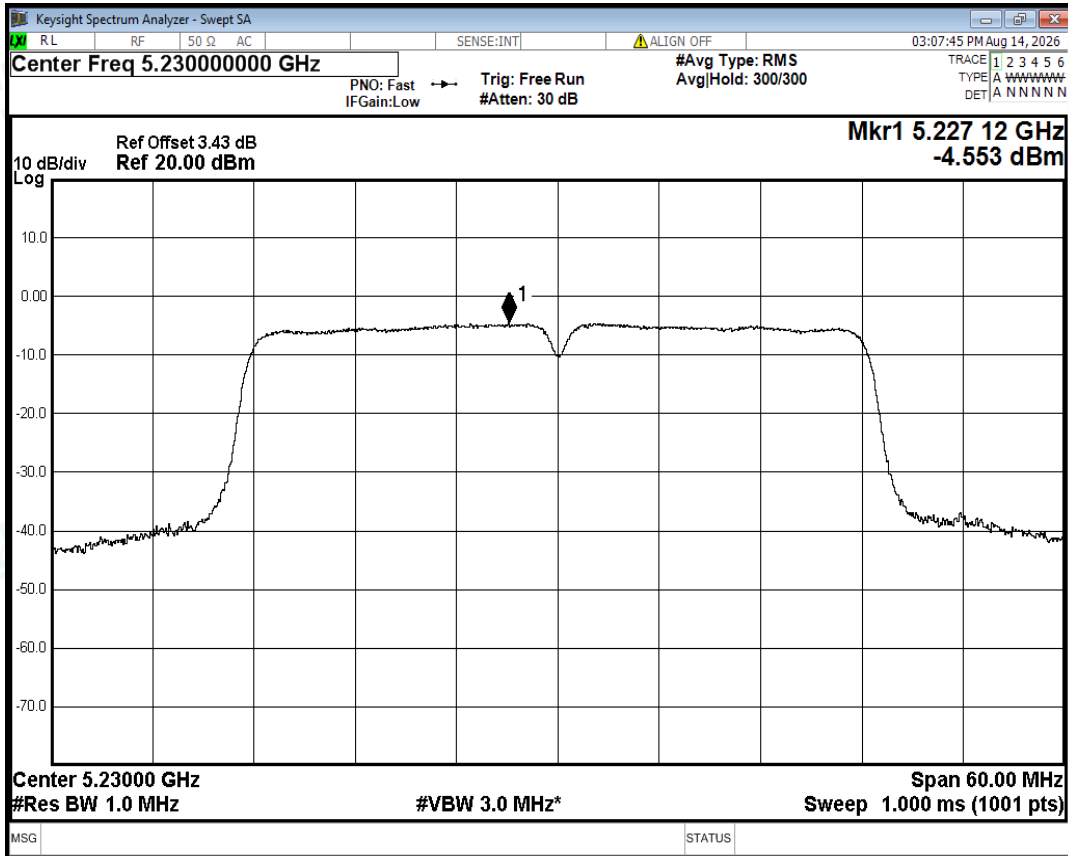
PSD NVNT ac20 5200MHz Ant1



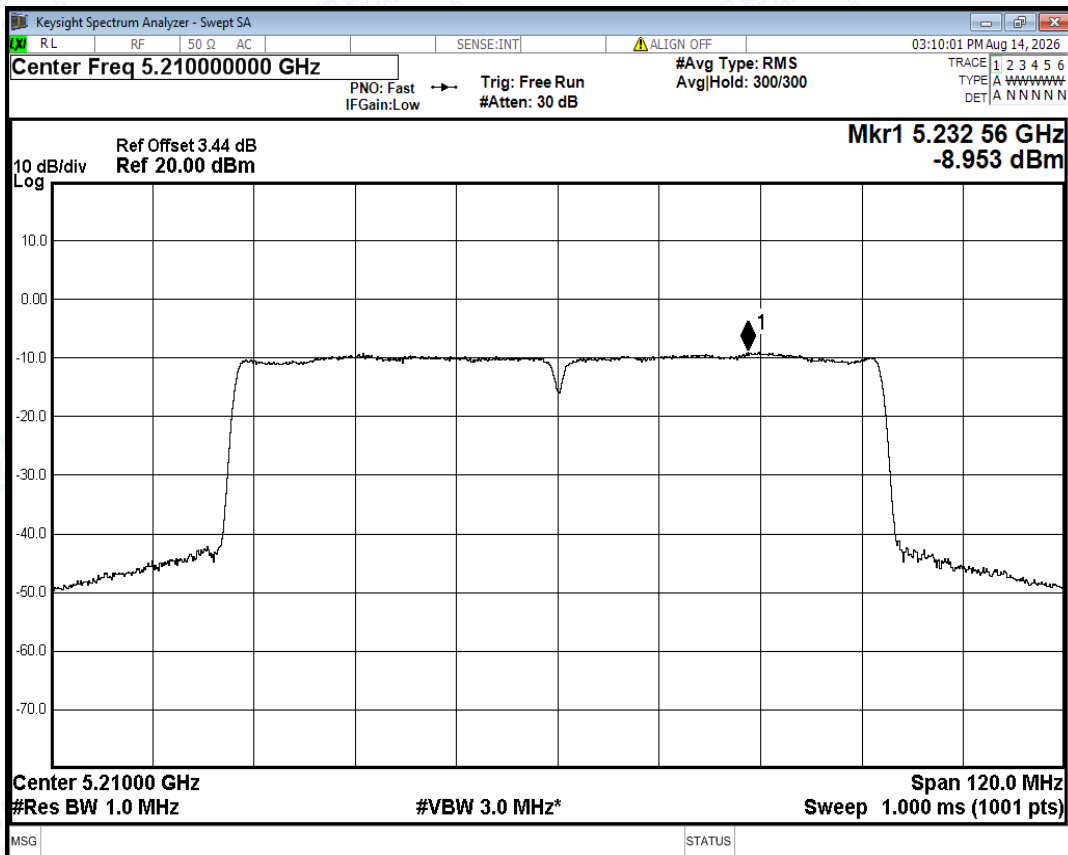
PSD NVNT ac20 5240MHz Ant1



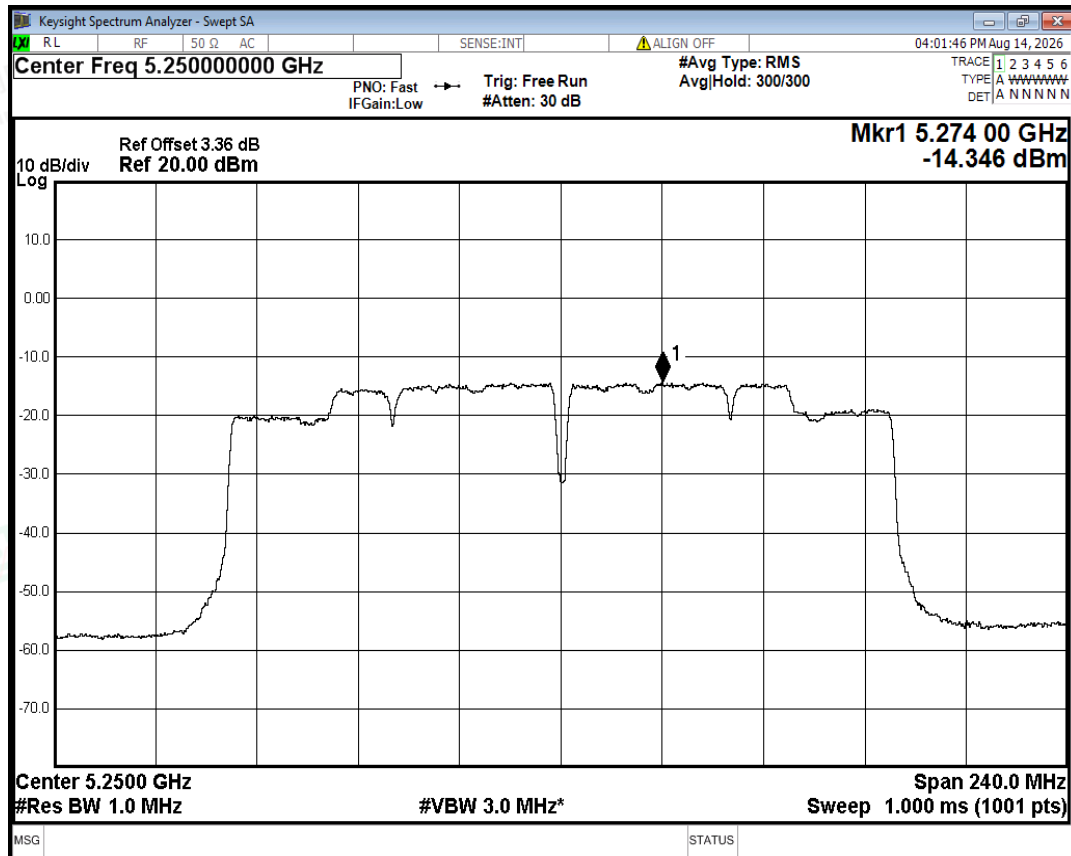
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac160 5250MHz Ant1

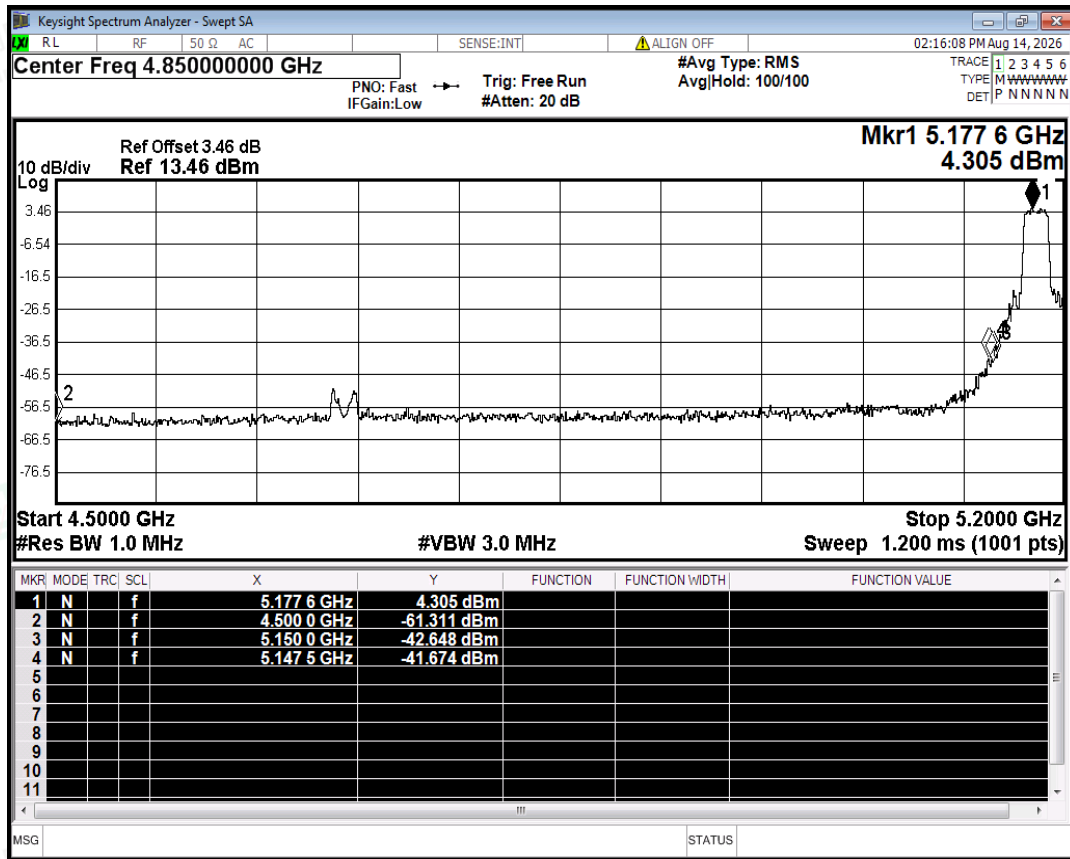


D.4 Restrict Band

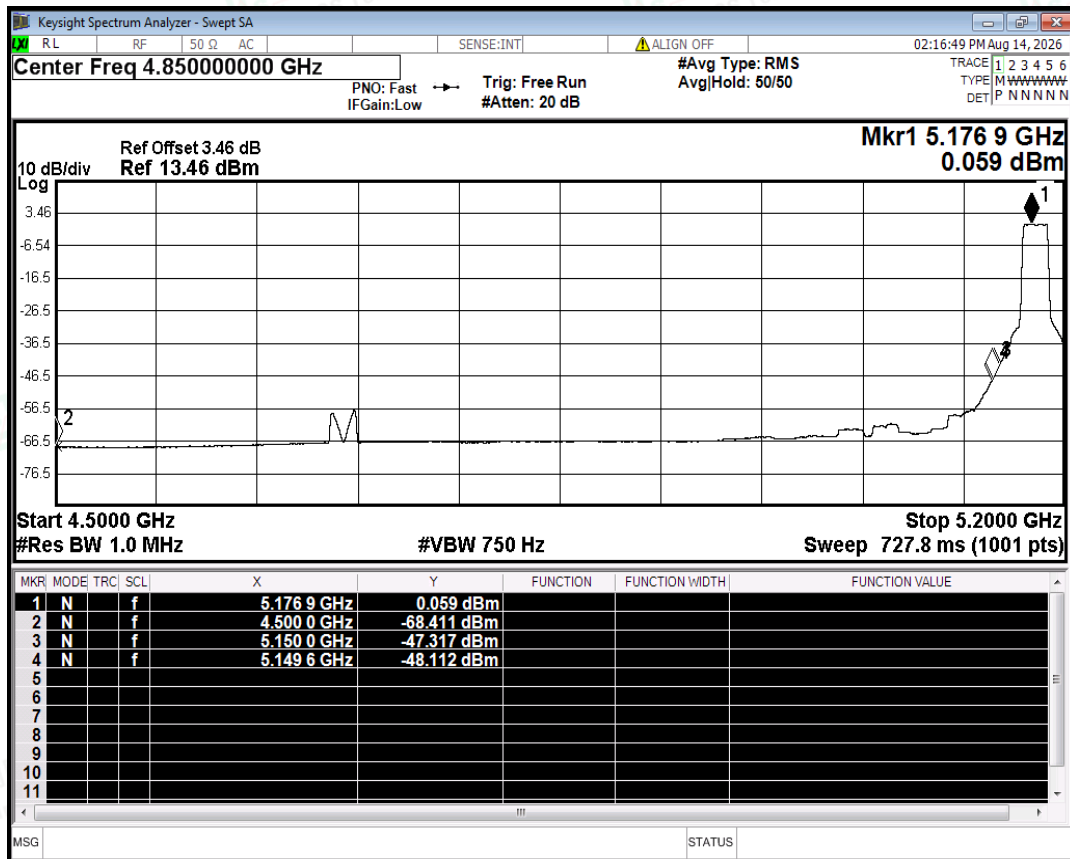
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-61.31	2.03	35.95	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-68.41	2.03	28.85	Average	54	Pass
NVNT	a	5180	Ant1	5147.5	-41.67	2.03	55.59	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-48.11	2.03	49.15	Average	54	Pass
NVNT	a	5180	Ant1	5150	-42.64	2.03	54.62	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-47.31	2.03	49.95	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.36	2.03	46.90	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.61	2.03	40.65	Average	54	Pass
NVNT	a	5240	Ant1	5418.24	-46.94	2.03	50.32	Peak	68.2	Pass
NVNT	a	5240	Ant1	5351.28	-56.46	2.03	40.80	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.27	2.03	47.99	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.05	2.03	40.21	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-51.97	2.03	45.29	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.4	2.03	38.86	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-42.27	2.03	54.99	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-47.29	2.03	49.97	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-42.52	2.03	54.74	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.98	2.03	50.28	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.74	2.03	47.52	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.69	2.03	40.57	Average	54	Pass
NVNT	n20	5240	Ant1	5421.36	-46.53	2.03	50.73	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5351.28	-56.62	2.03	40.64	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.73	2.03	47.53	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.9	2.03	40.36	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-61.62	2.03	35.64	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-67.98	2.03	29.28	Average	54	Pass
NVNT	n40	5190	Ant1	5148.24	-41.42	2.03	55.84	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-46.08	2.03	51.18	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-41.75	2.03	55.51	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-45.66	2.03	51.60	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.82	2.03	47.44	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.65	2.03	40.61	Average	54	Pass
NVNT	n40	5230	Ant1	5433.81	-47.72	2.03	49.54	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5445.96	-56.26	2.03	41.00	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.11	2.03	47.15	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.69	2.03	40.57	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-51.56	2.03	45.70	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.42	2.03	38.84	Average	54	Pass
NVNT	ac20	5180	Ant1	5148.9	-41.53	2.03	55.73	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-47.58	2.03	49.68	Average	54	Pass



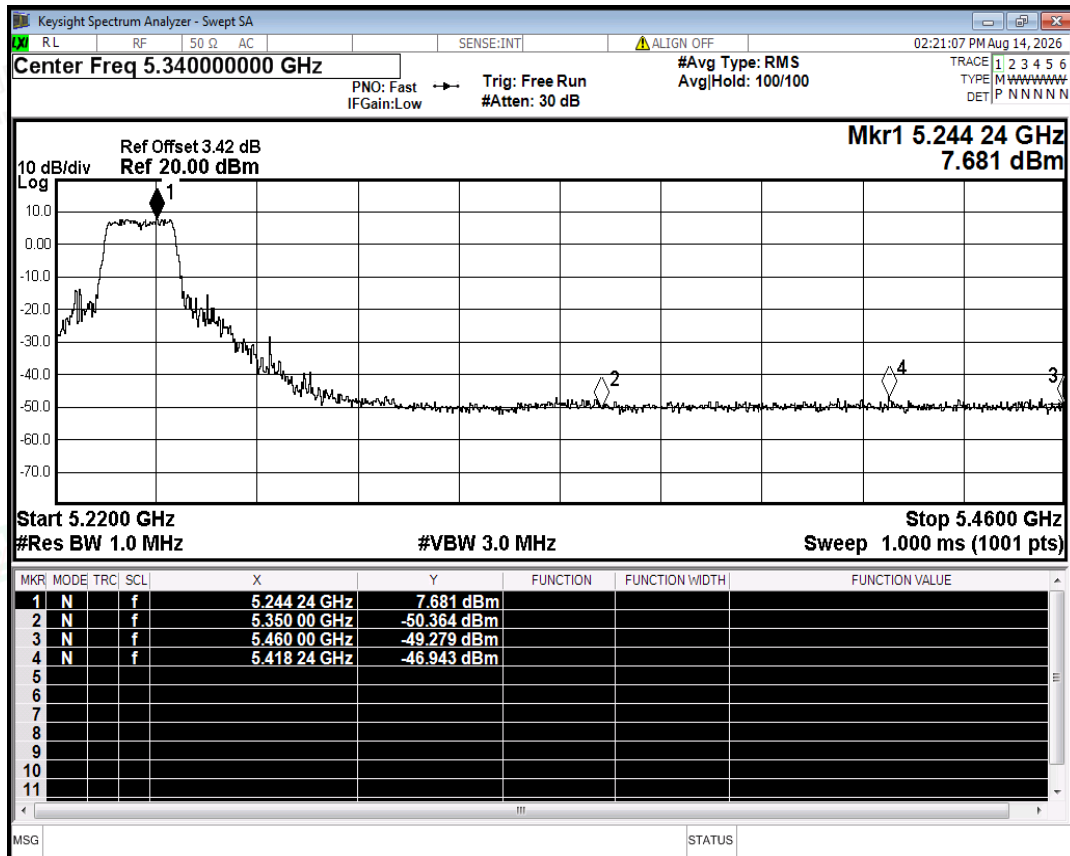
NVNT	ac20	5180	Ant1	5150	-38.85	2.03	58.41	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-47.19	2.03	50.07	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.66	2.03	46.60	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.55	2.03	40.71	Average	54	Pass
NVNT	ac20	5240	Ant1	5386.32	-46.95	2.03	50.31	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350.8	-56.47	2.03	40.79	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-48.22	2.03	49.04	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.79	2.03	40.47	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.09	2.03	47.17	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.27	2.03	38.99	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-42.89	2.03	54.37	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-46.77	2.03	50.49	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-39.38	2.03	57.88	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-46.56	2.03	50.70	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-50.4	2.03	46.86	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.6	2.03	40.66	Average	54	Pass
NVNT	ac40	5230	Ant1	5407.08	-47.05	2.03	50.21	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5411.94	-56.27	2.03	40.99	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-47.89	2.03	49.37	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.68	2.03	40.58	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-49.77	2.03	47.49	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.7	2.03	41.56	Average	54	Pass
NVNT	ac80	5210	Ant1	5369.25	-47.67	2.03	49.59	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5354.4	-55.56	2.03	41.70	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.56	2.03	47.70	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.33	2.03	40.93	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-50.48	2.03	46.78	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.86	2.03	39.40	Average	54	Pass
NVNT	ac80	5210	Ant1	5145.43	-40.72	2.03	56.54	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-47.1	2.03	50.16	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-42.43	2.03	54.83	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-46.5	2.03	50.76	Average	54	Pass
NVNT	ac160	5250	Ant1	5350	-46.21	2.03	51.05	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5350	-52.52	2.03	44.74	Average	54	Pass
NVNT	ac160	5250	Ant1	5404.5	-41.92	2.03	55.34	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5382.67	-49.31	2.03	47.95	Average	54	Pass
NVNT	ac160	5250	Ant1	5460	-49.14	2.03	48.12	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5460	-54.41	2.03	42.85	Average	54	Pass
NVNT	ac160	5250	Ant1	4500	-51.06	2.03	46.20	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	4500	-57.35	2.03	39.91	Average	54	Pass
NVNT	ac160	5250	Ant1	5075.12	-45.79	2.03	51.47	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5117.89	-53.27	2.03	43.99	Average	54	Pass
NVNT	ac160	5250	Ant1	5150	-48.81	2.03	48.45	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5150	-54.8	2.03	42.46	Average	54	Pass



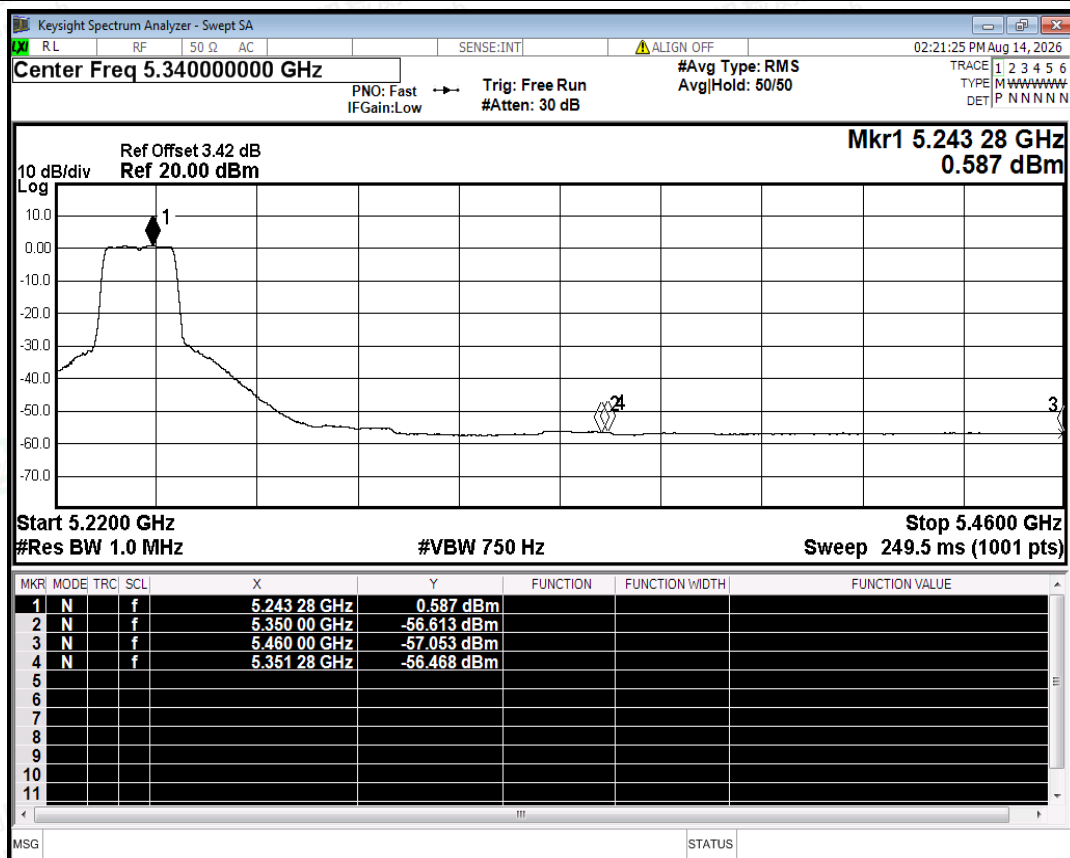
Restrict Band NVNT a 5180MHz Ant1 Peak



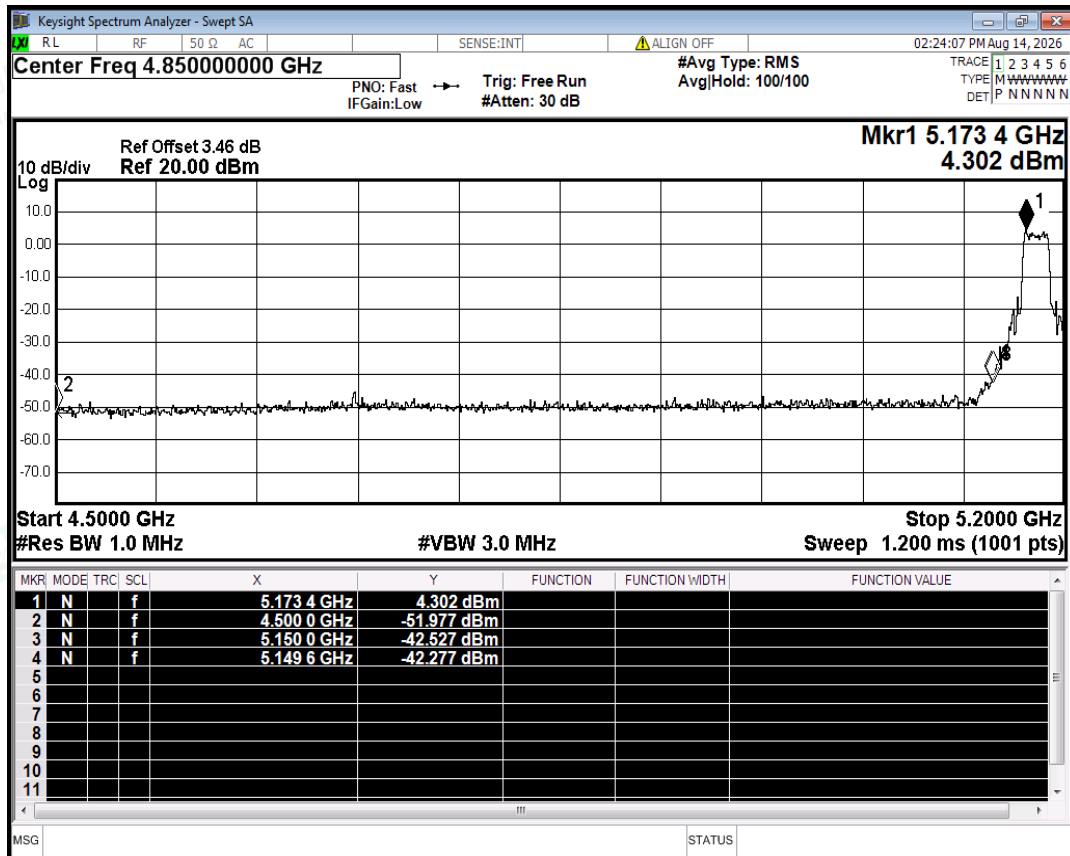
Restrict Band NVNT a 5180MHz Ant1 Average



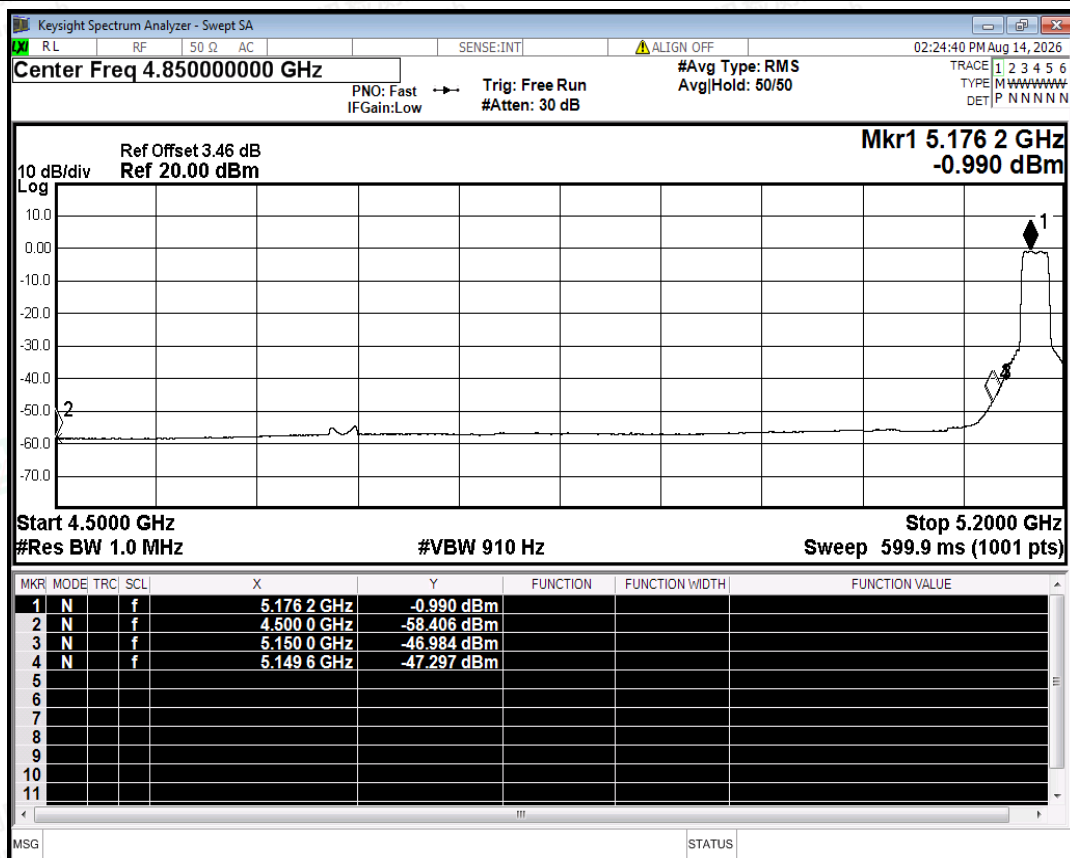
Restrict Band NVNT a 5240MHz Ant1 Peak



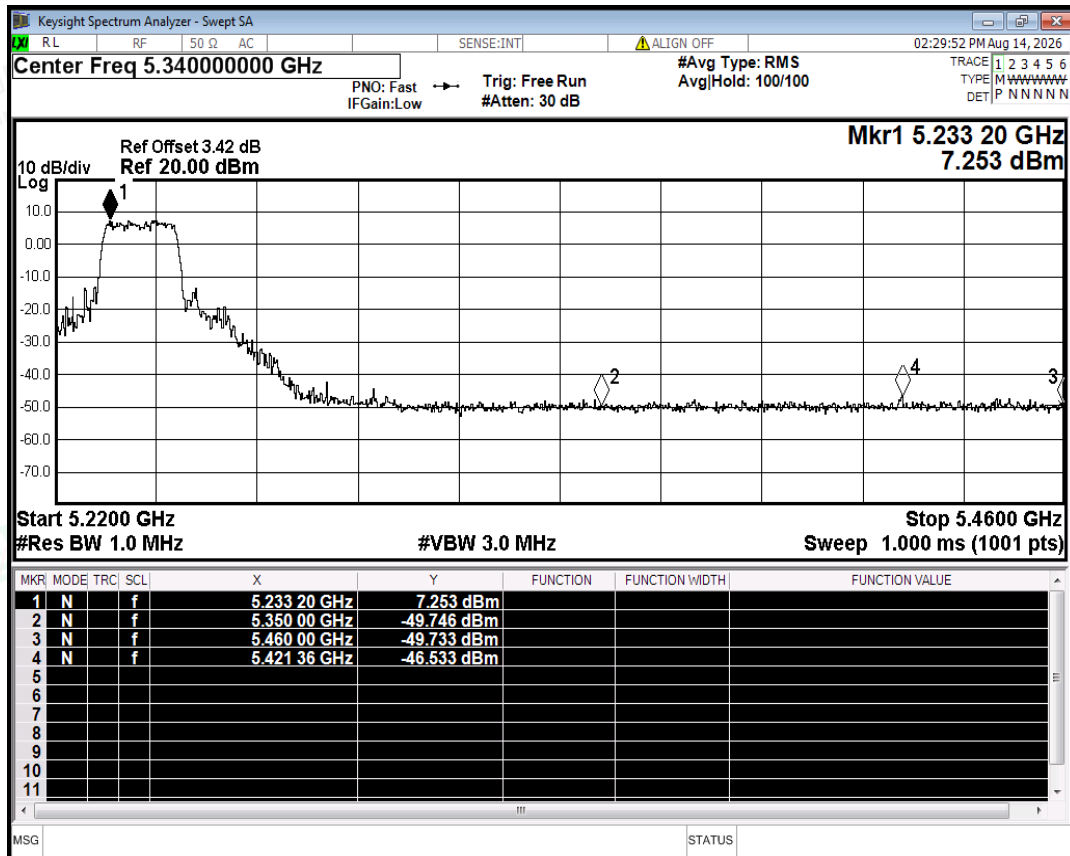
Restrict Band NVNT a 5240MHz Ant1 Average



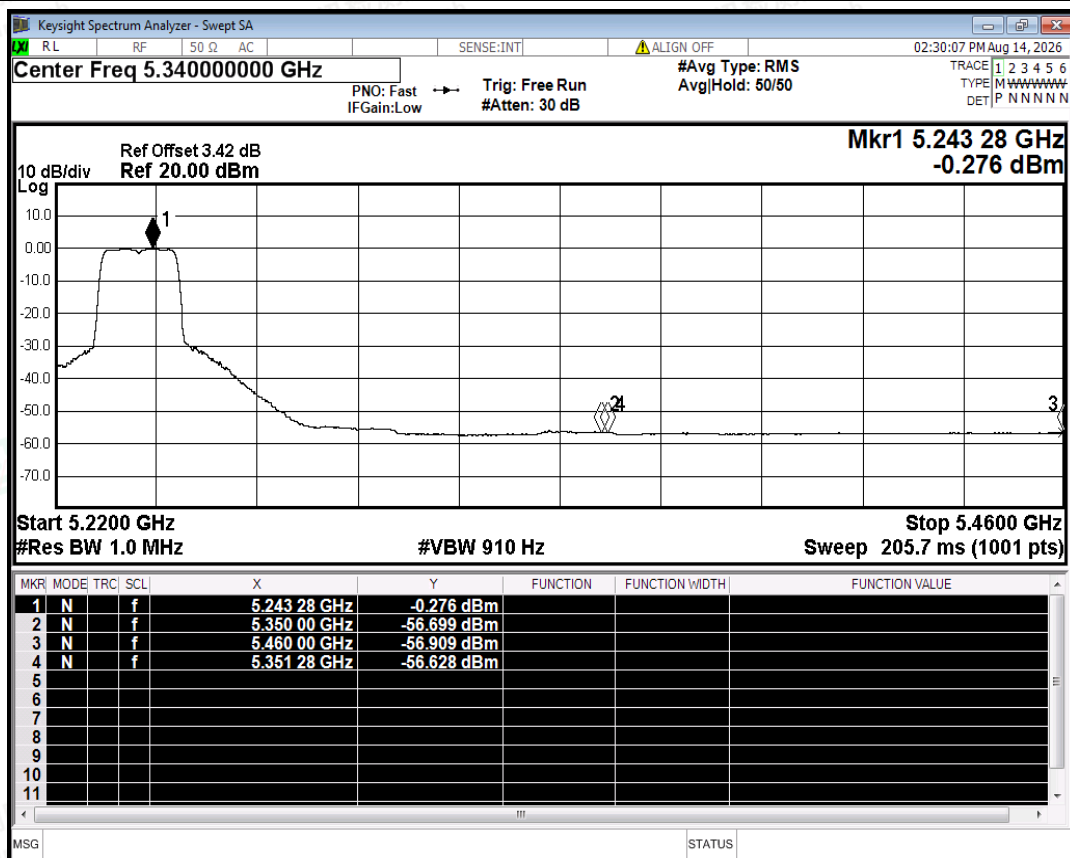
Restrict Band NVNT n20 5180MHz Ant1 Peak



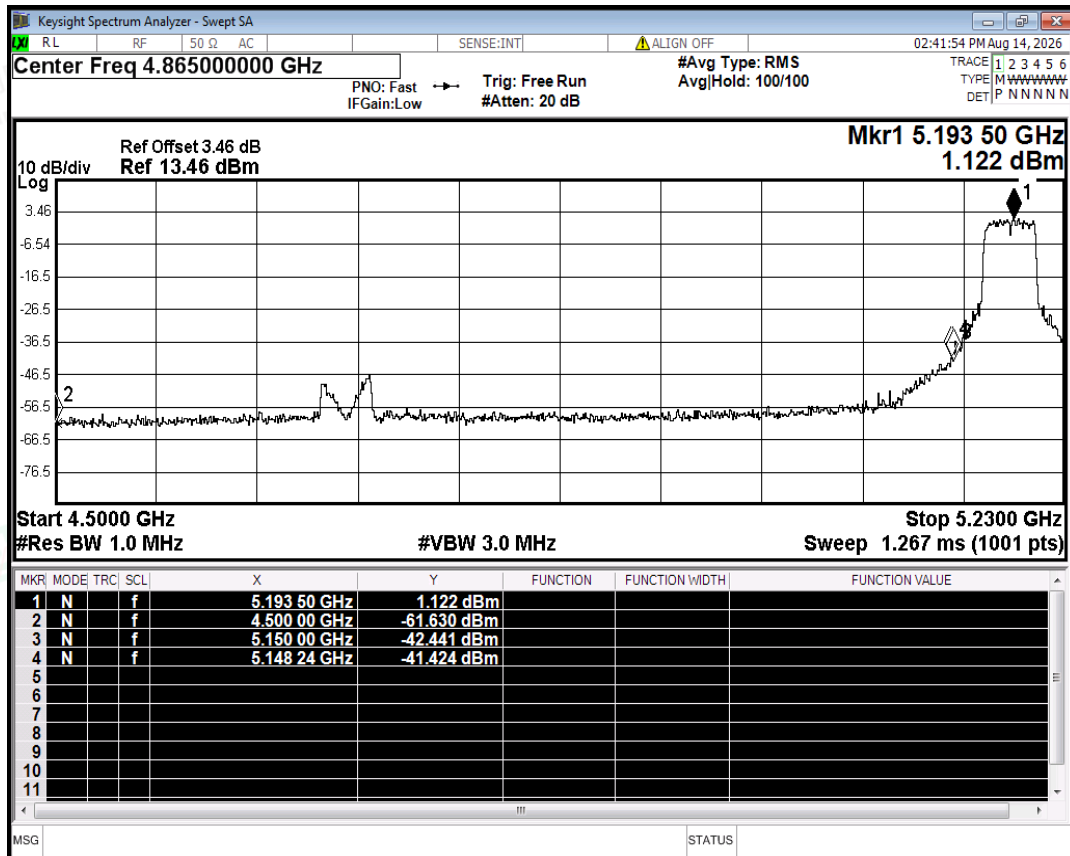
Restrict Band NVNT n20 5180MHz Ant1 Average



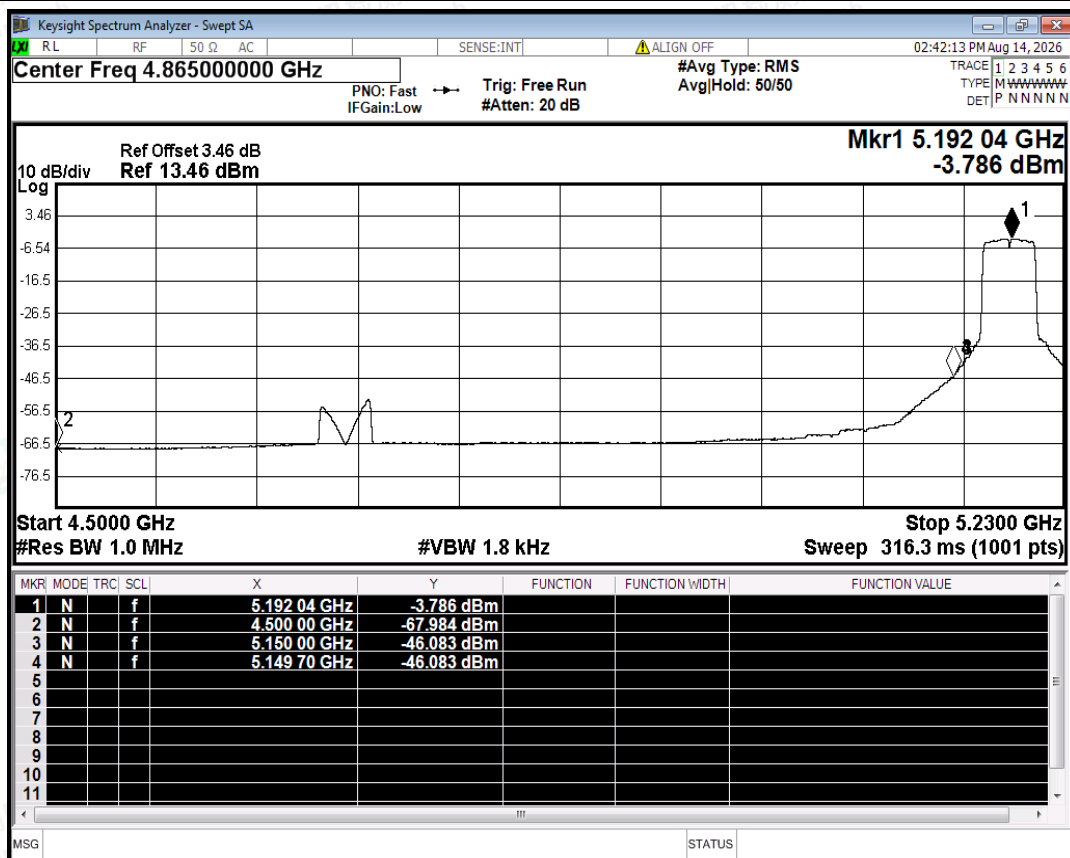
Restrict Band NVNT n20 5240MHz Ant1 Peak



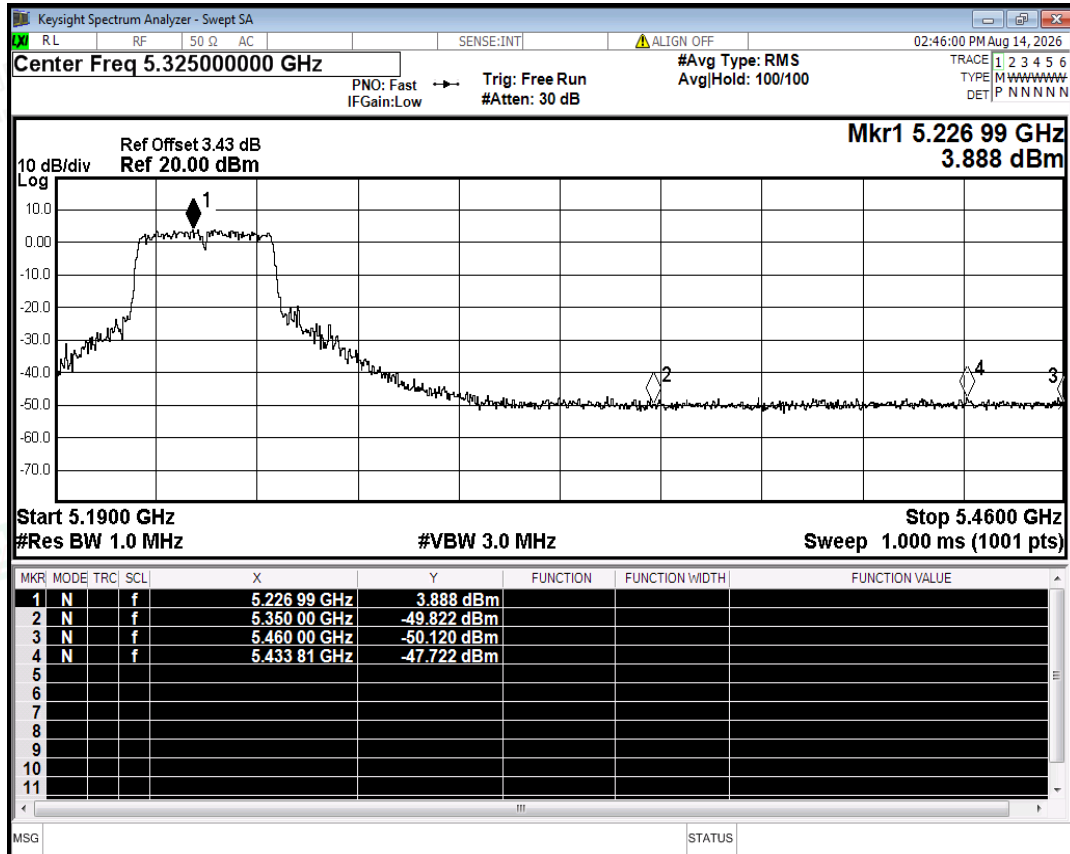
Restrict Band NVNT n20 5240MHz Ant1 Average



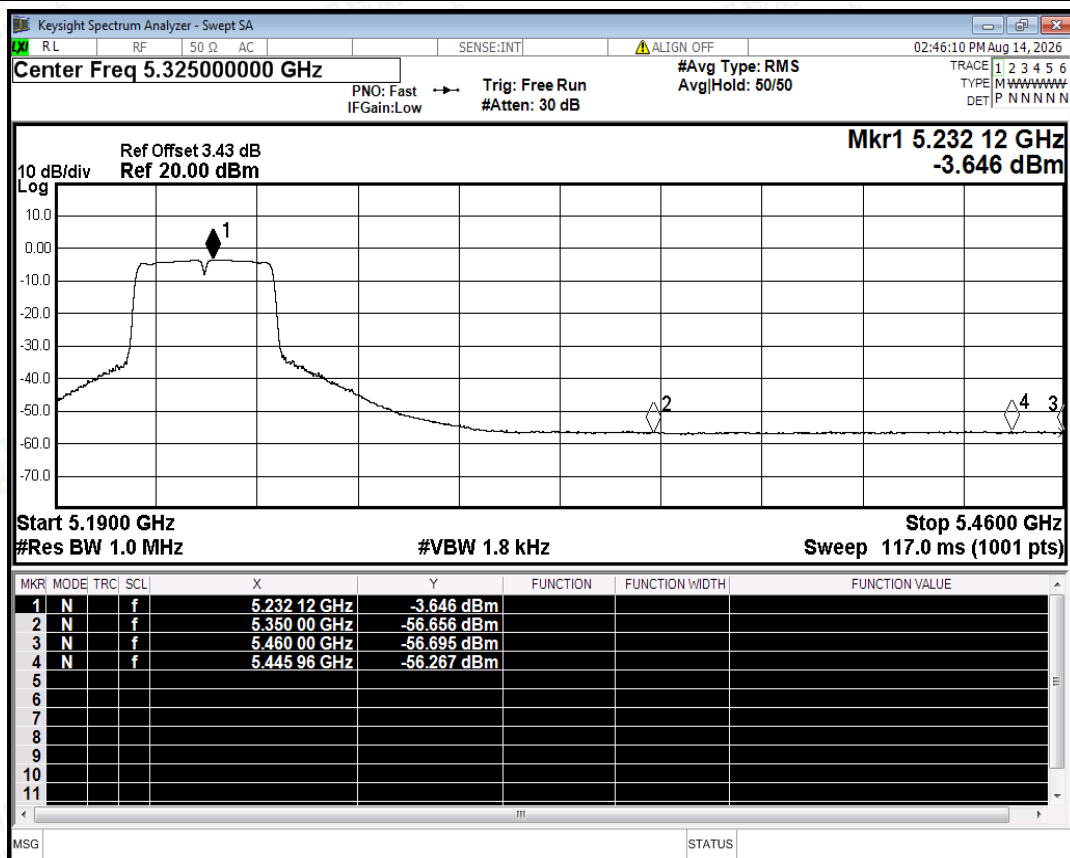
Restrict Band NVNT n40 5190MHz Ant1 Peak



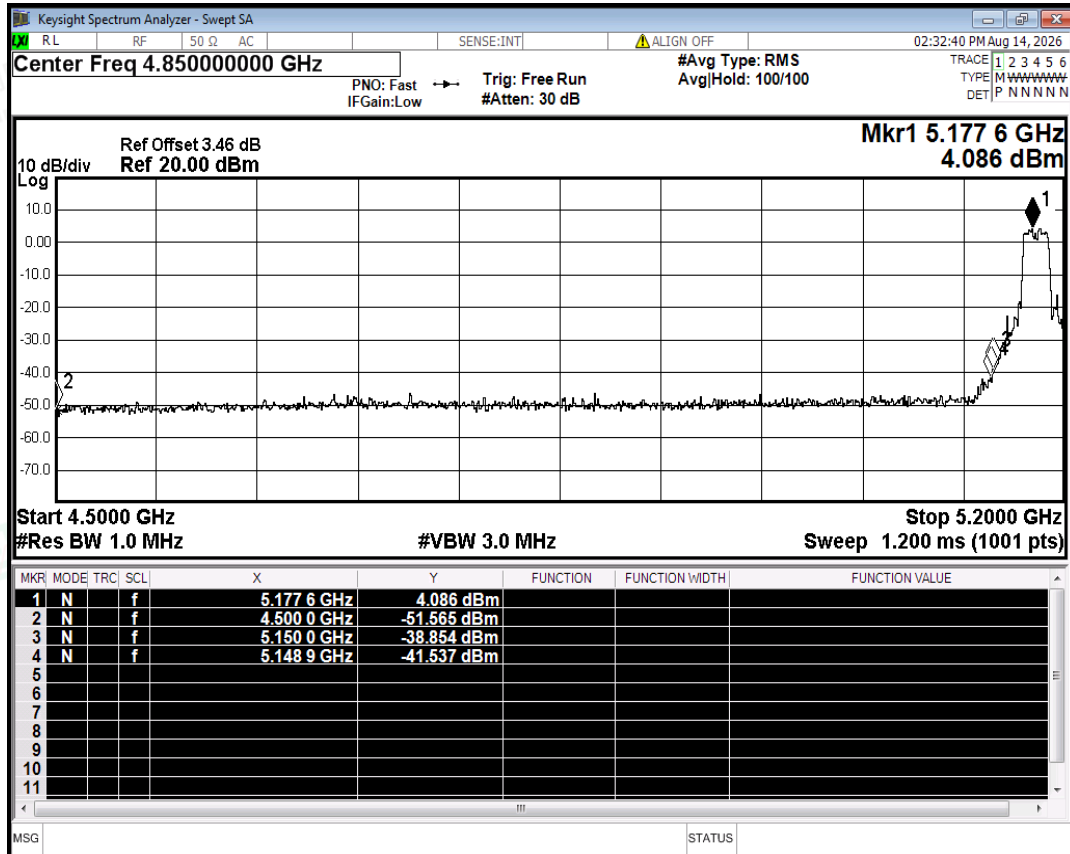
Restrict Band NVNT n40 5190MHz Ant1 Average



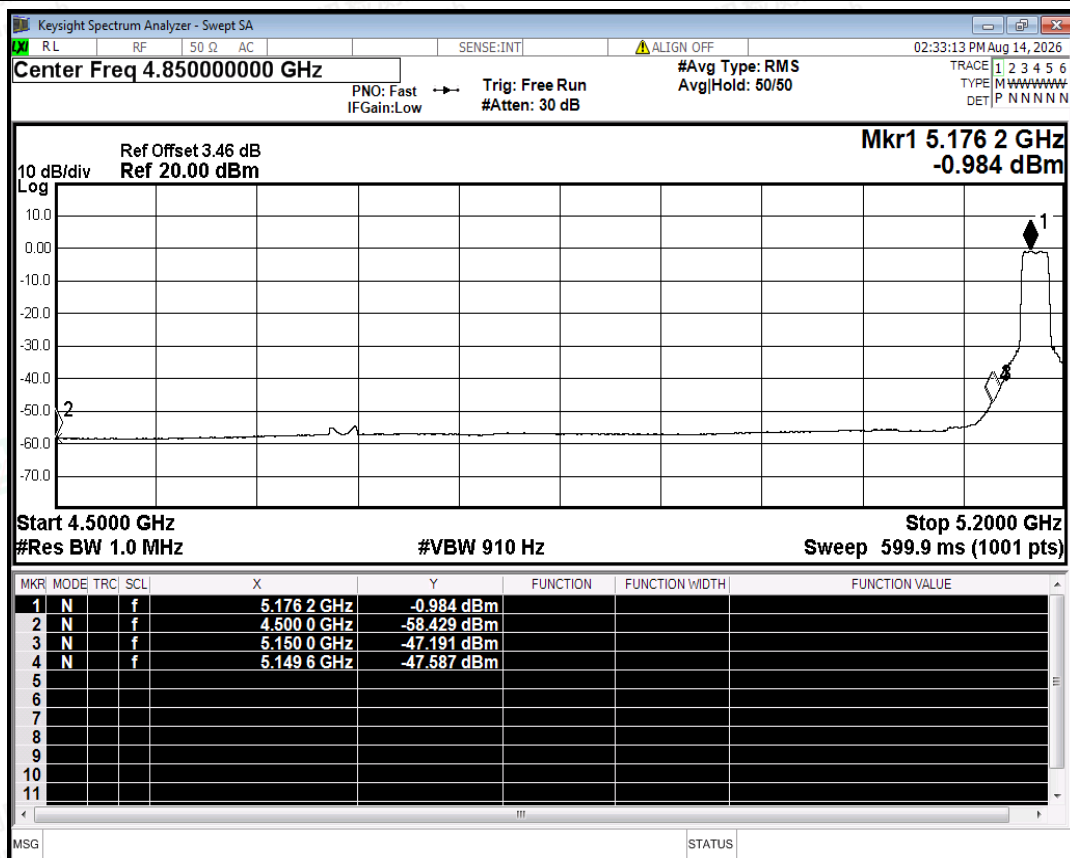
Restrict Band NVNT n40 5230MHz Ant1 Peak



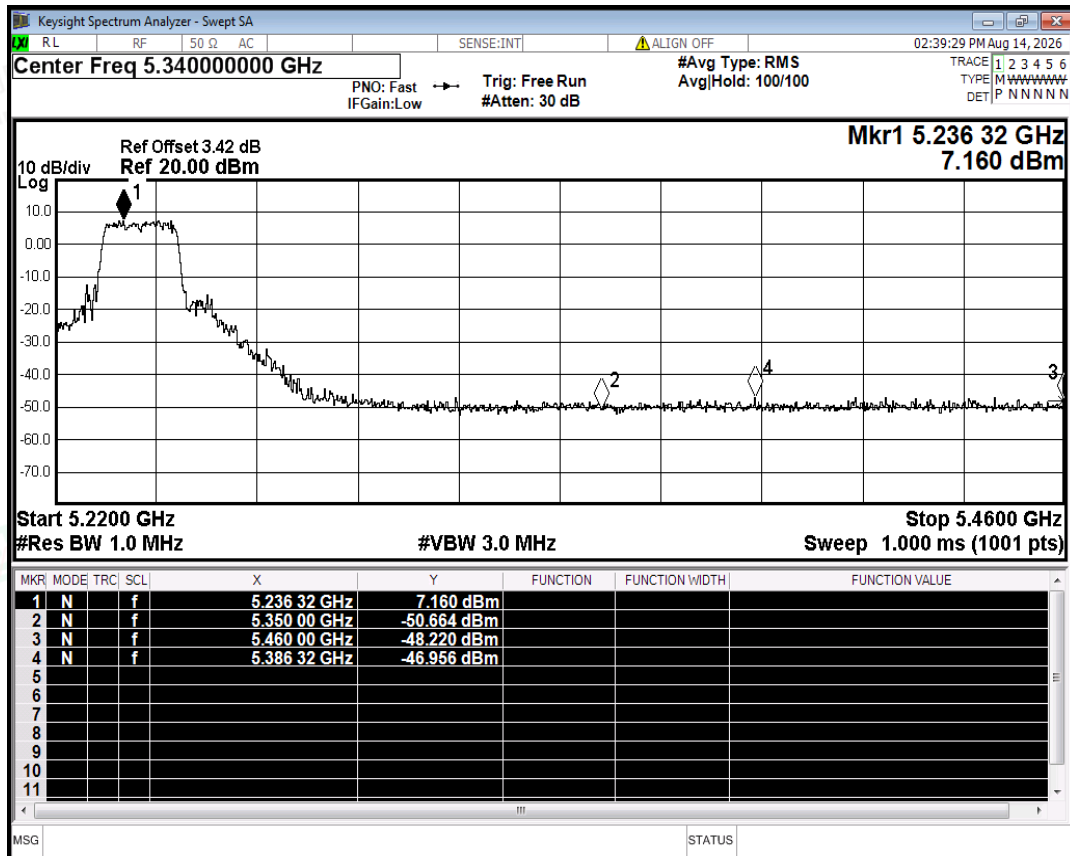
Restrict Band NVNT n40 5230MHz Ant1 Average



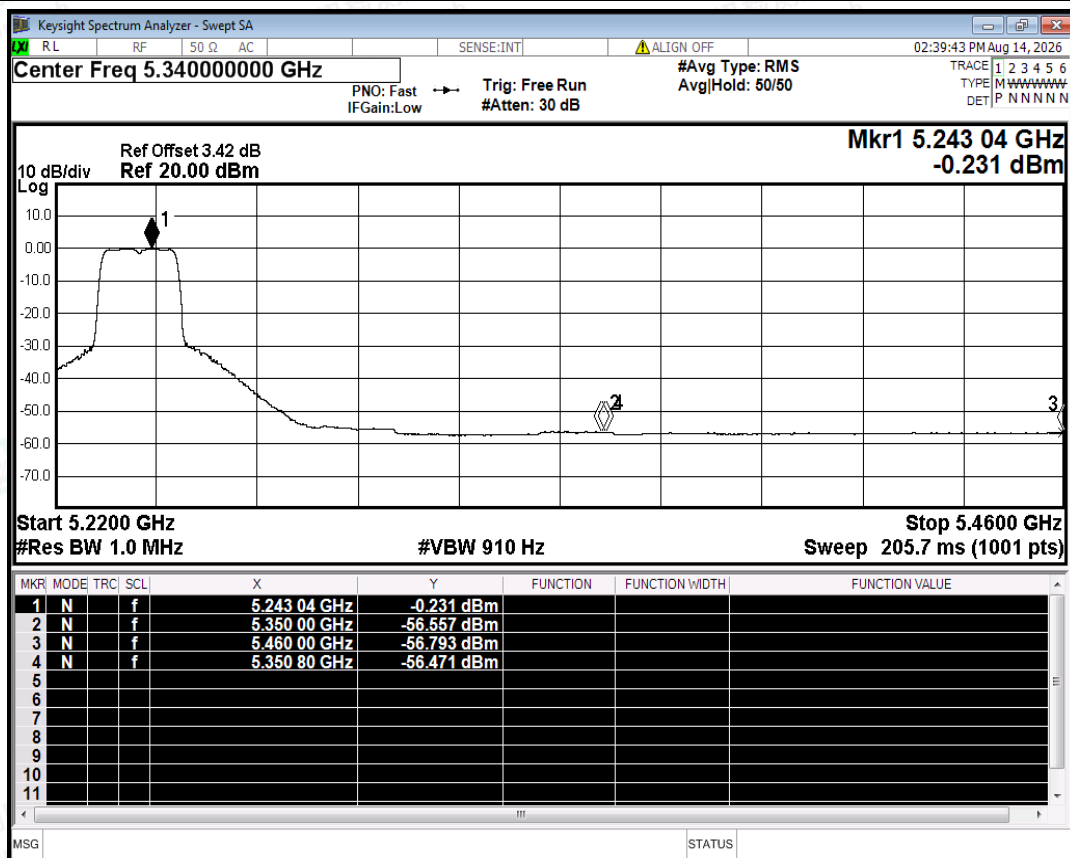
Restrict Band NVNT ac20 5180MHz Ant1 Peak



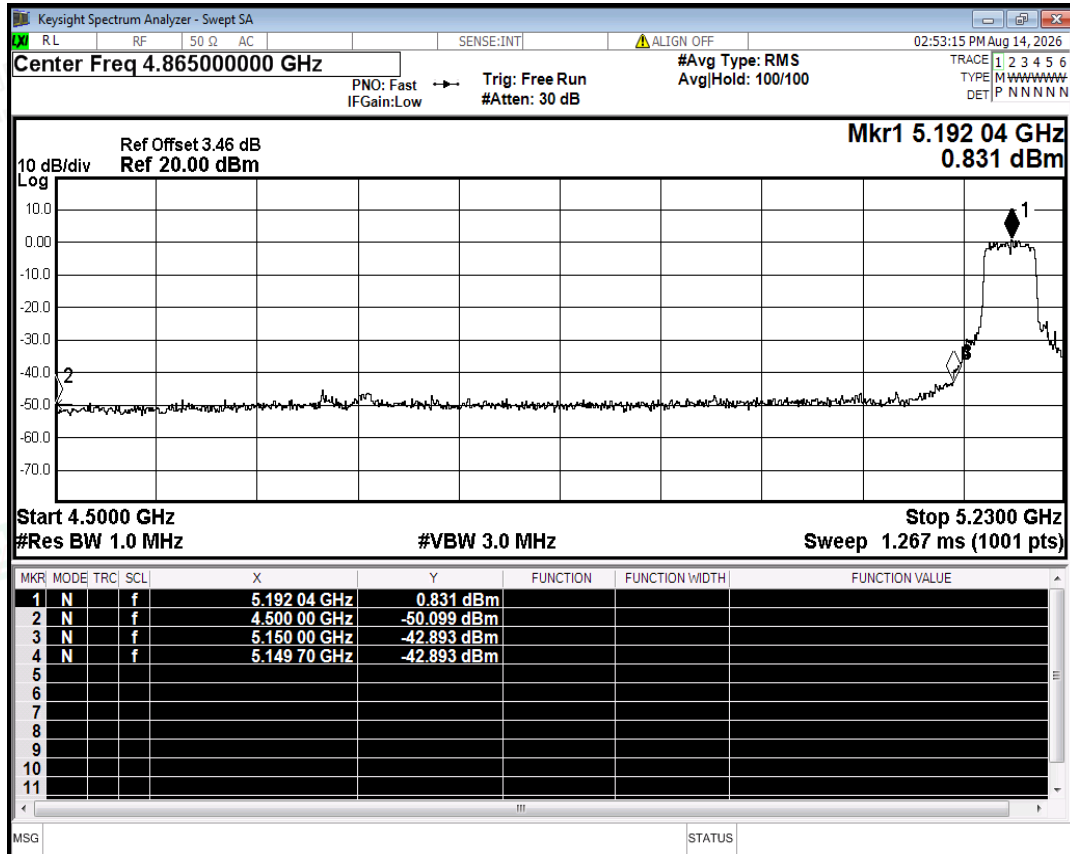
Restrict Band NVNT ac20 5180MHz Ant1 Average



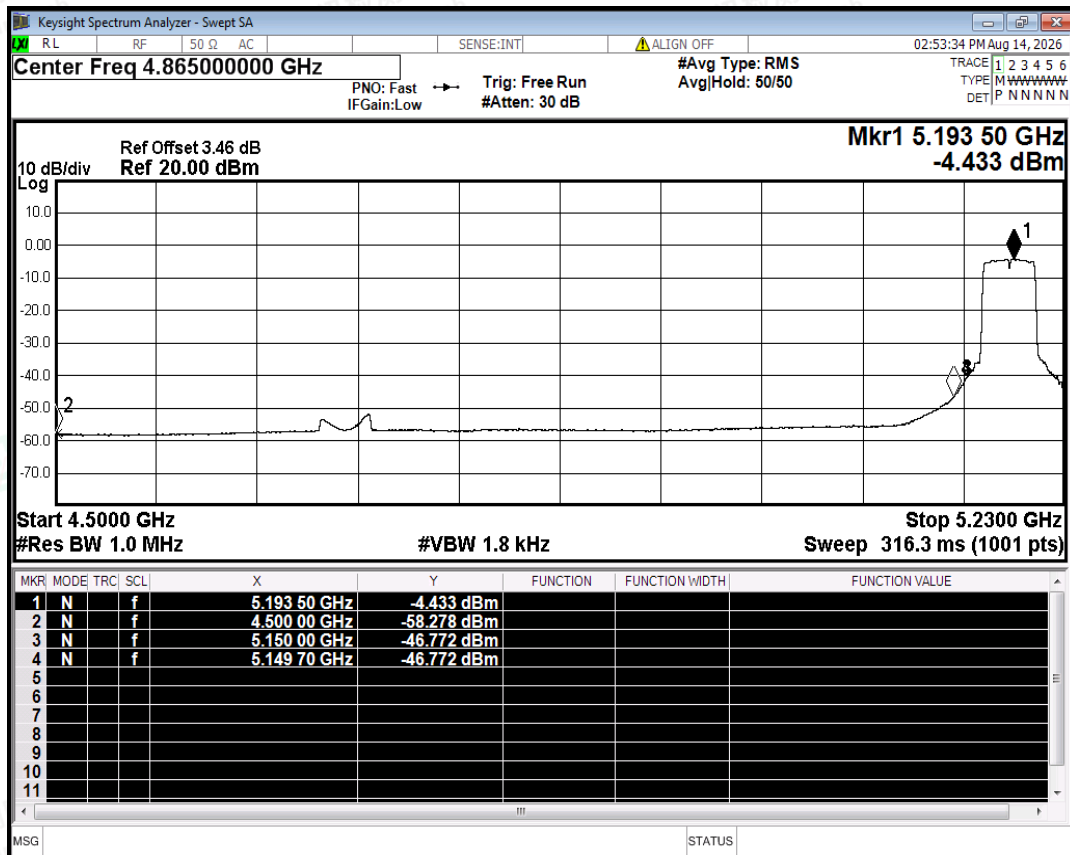
Restrict Band NVNT ac20 5240MHz Ant1 Peak



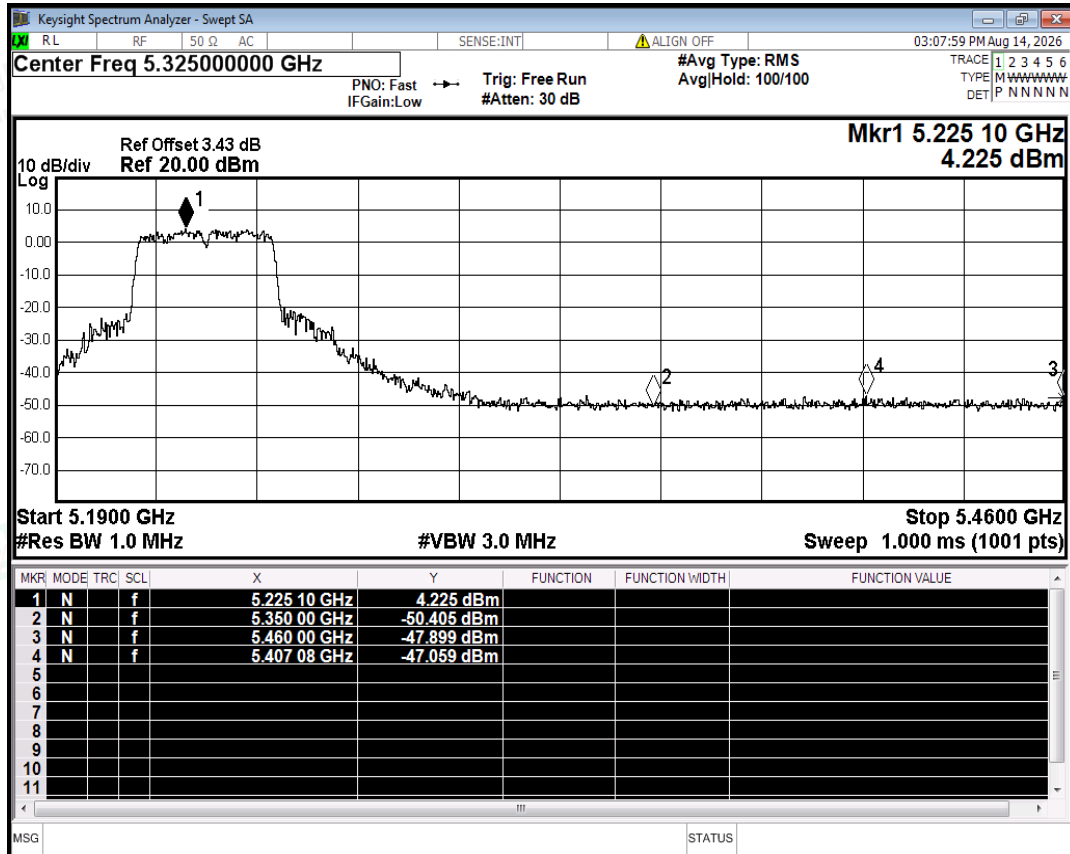
Restrict Band NVNT ac20 5240MHz Ant1 Average



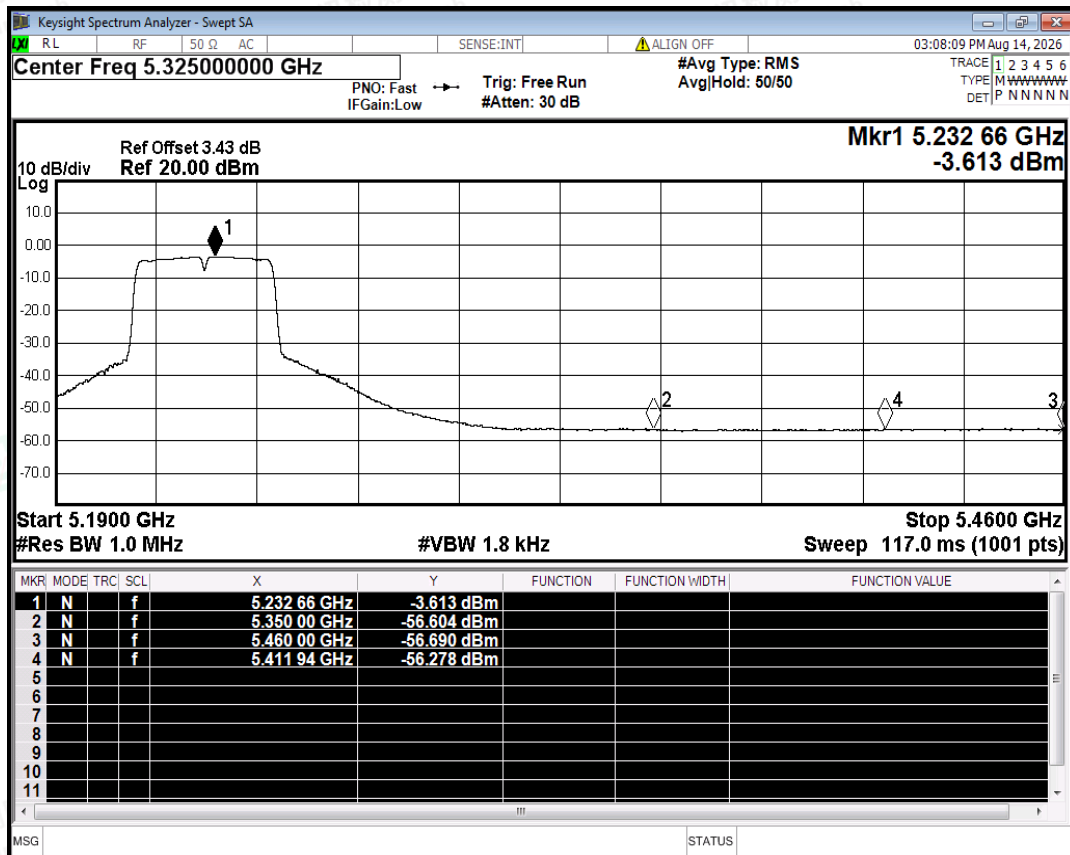
Restrict Band NVNT ac40 5190MHz Ant1 Peak



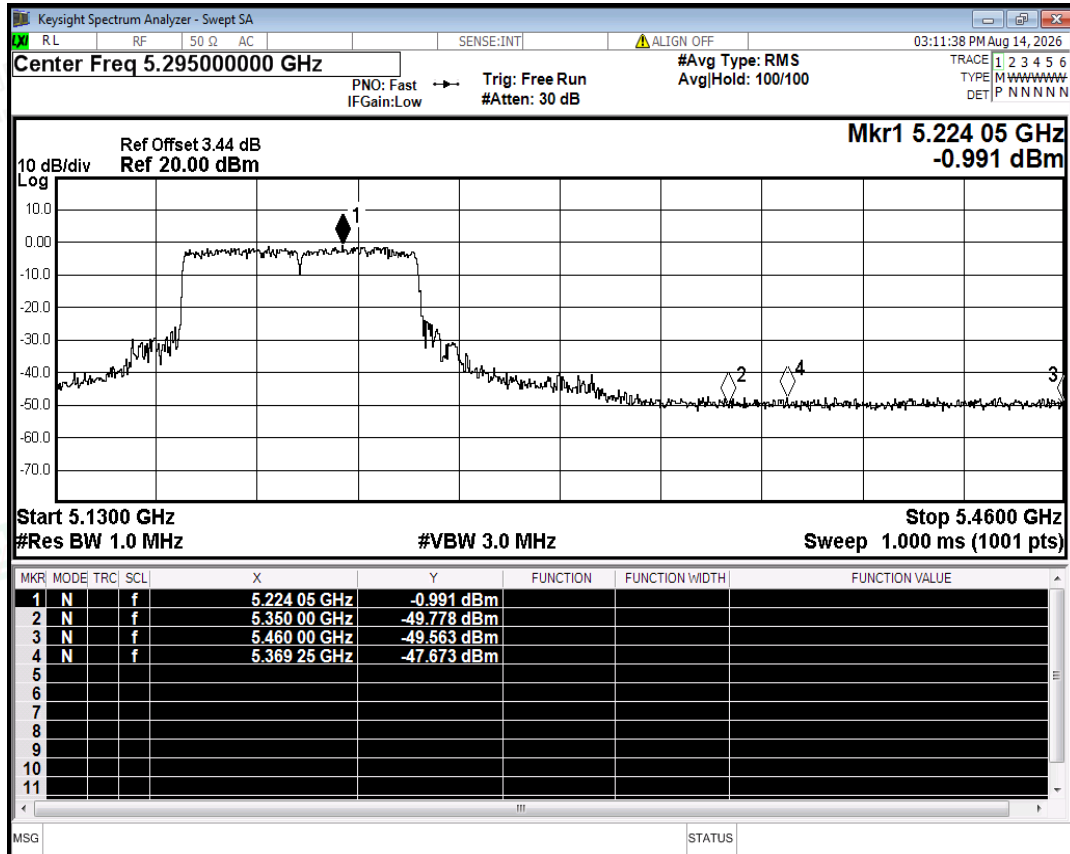
Restrict Band NVNT ac40 5190MHz Ant1 Average



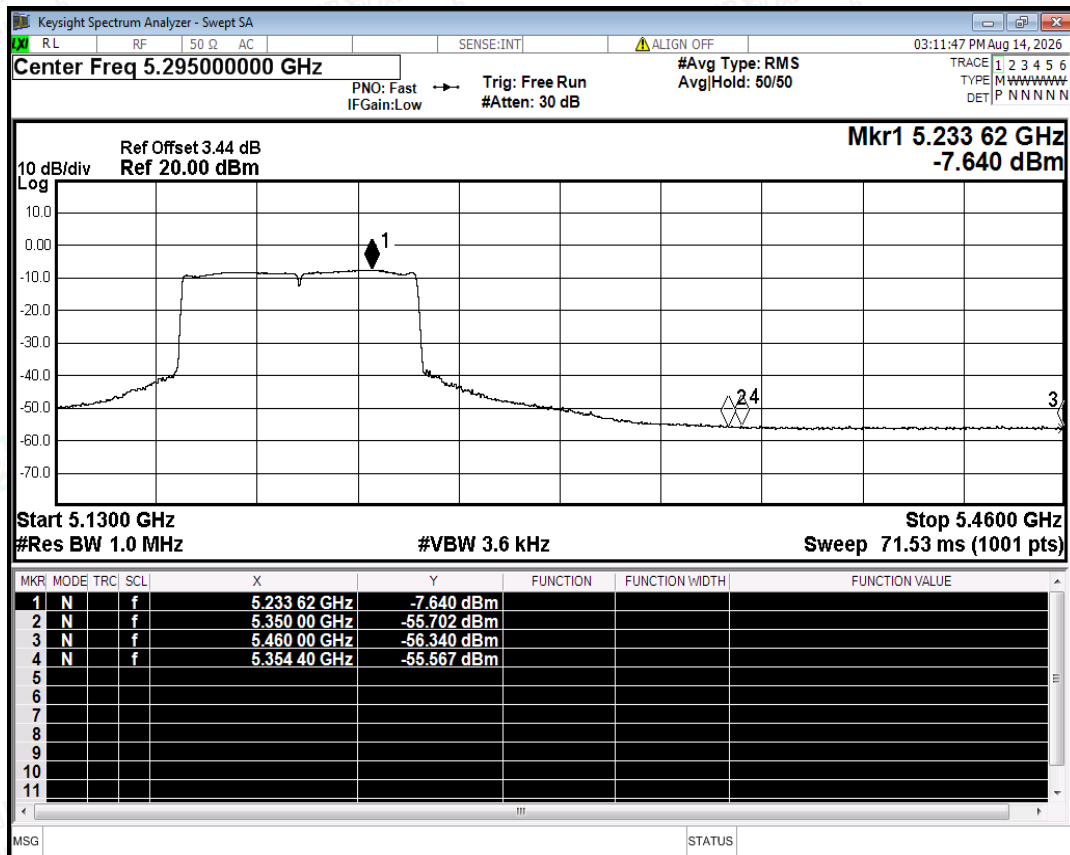
Restrict Band NVNT ac40 5230MHz Ant1 Peak



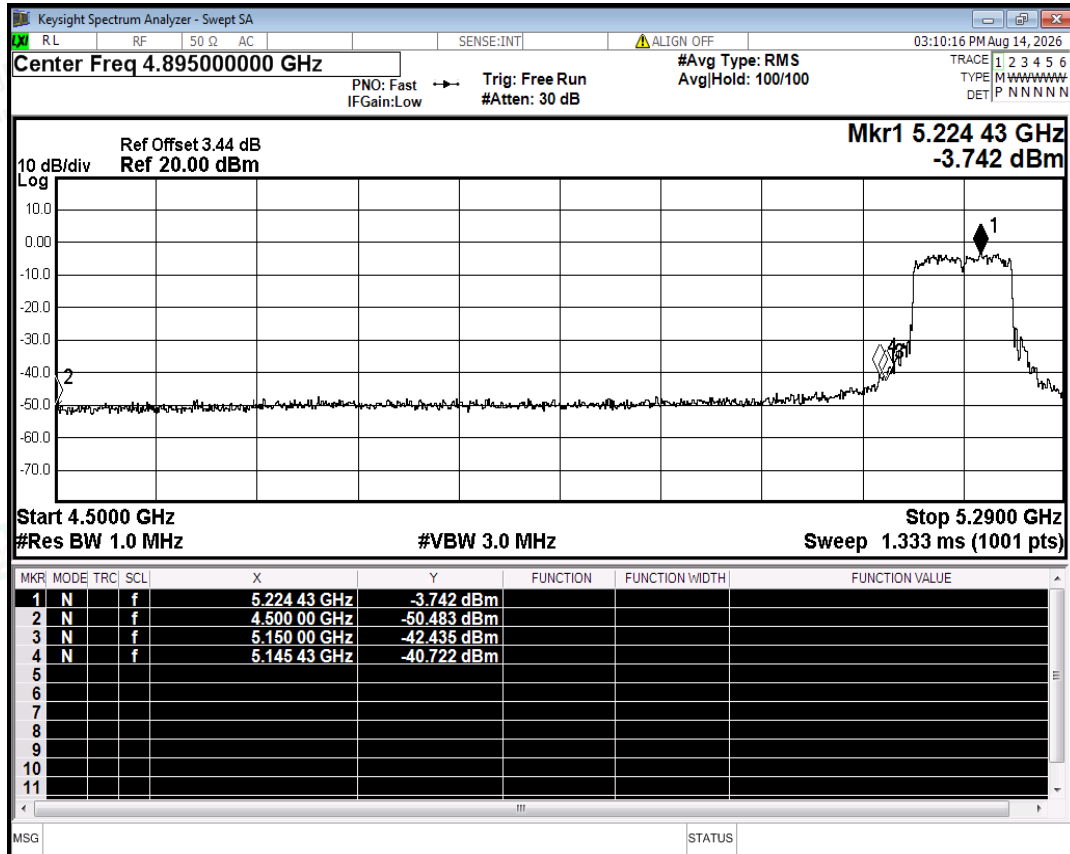
Restrict Band NVNT ac40 5230MHz Ant1 Average



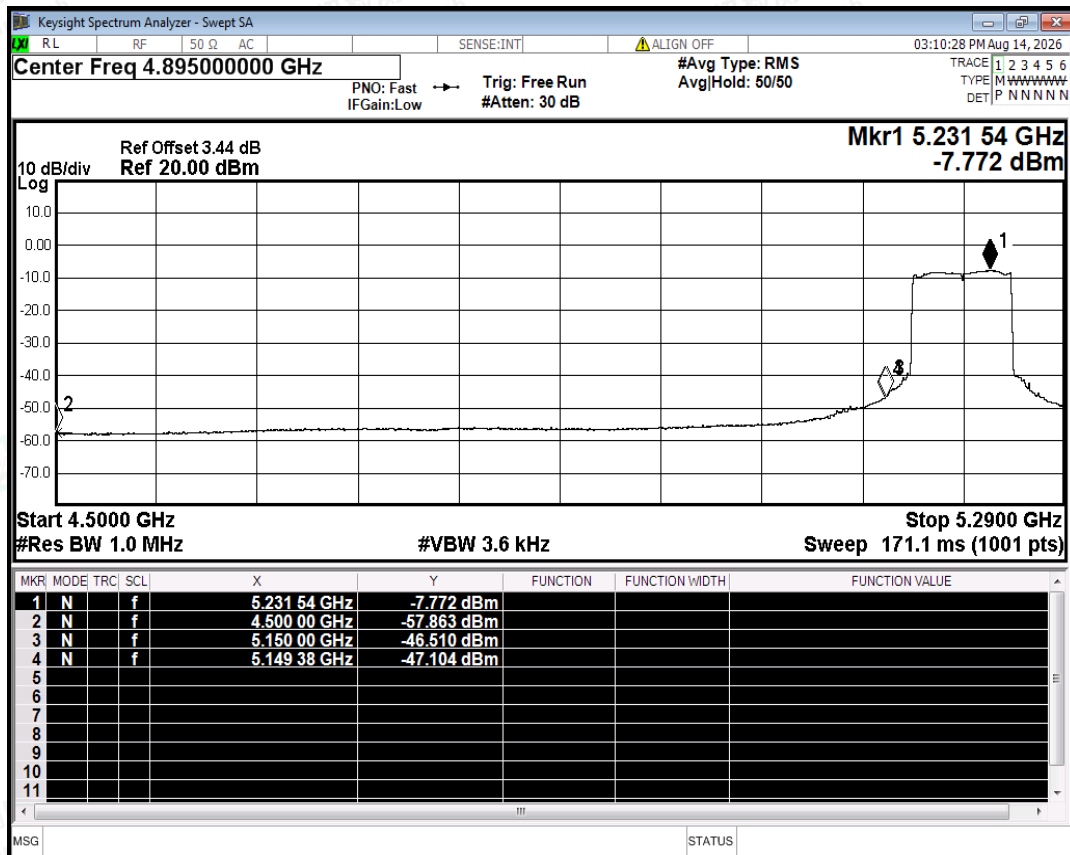
Restrict Band NVNT ac80 5210MHz Ant1 Peak



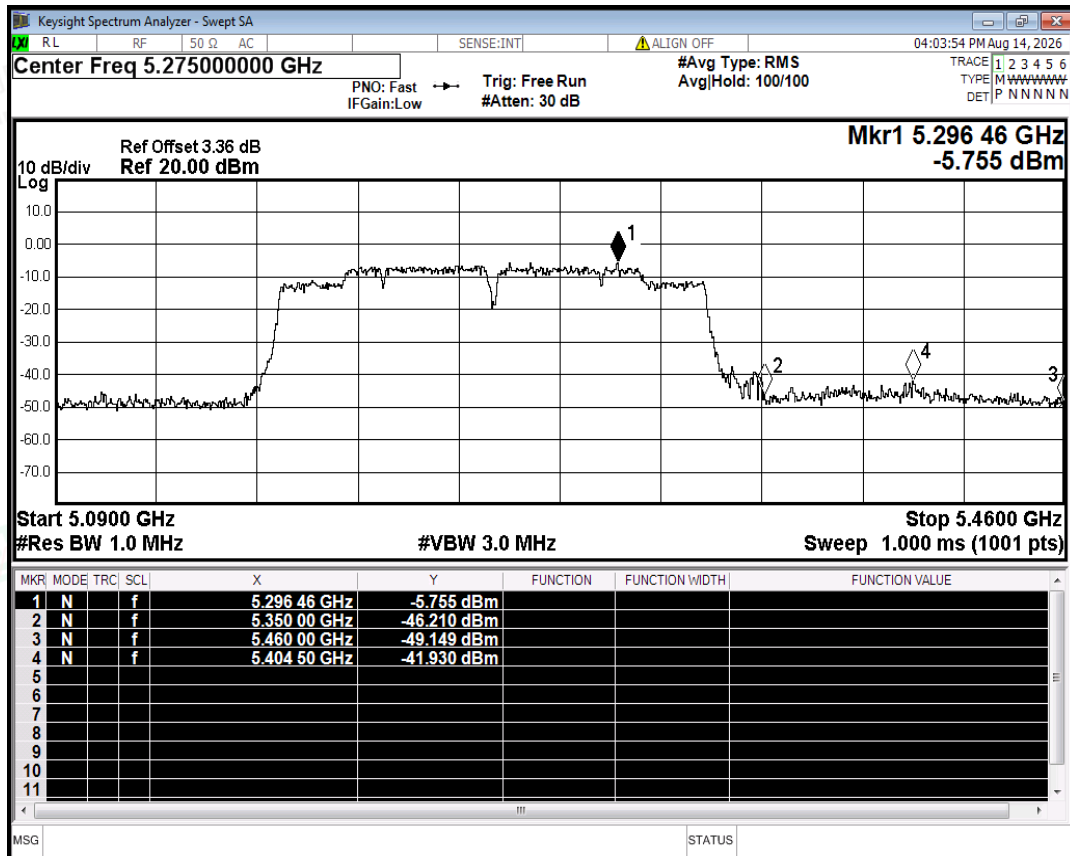
Restrict Band NVNT ac80 5210MHz Ant1 Average



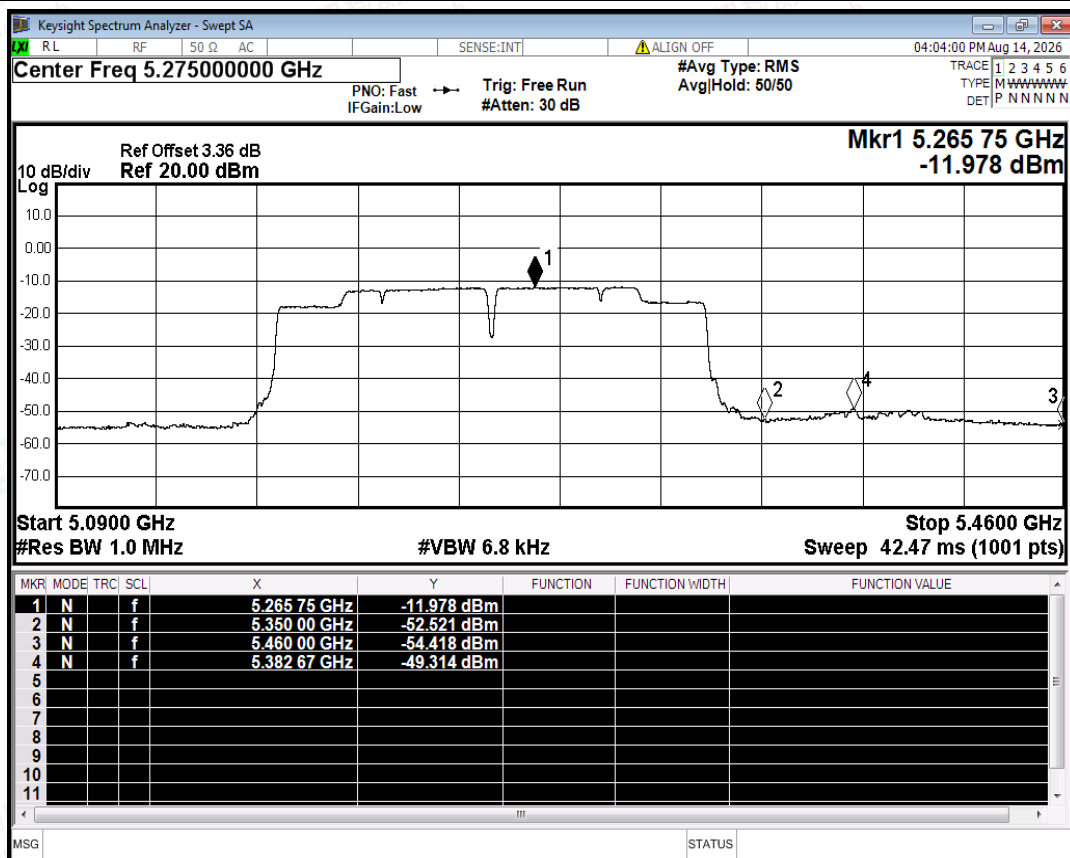
Restrict Band NVNT ac80 5210MHz Ant1 Peak



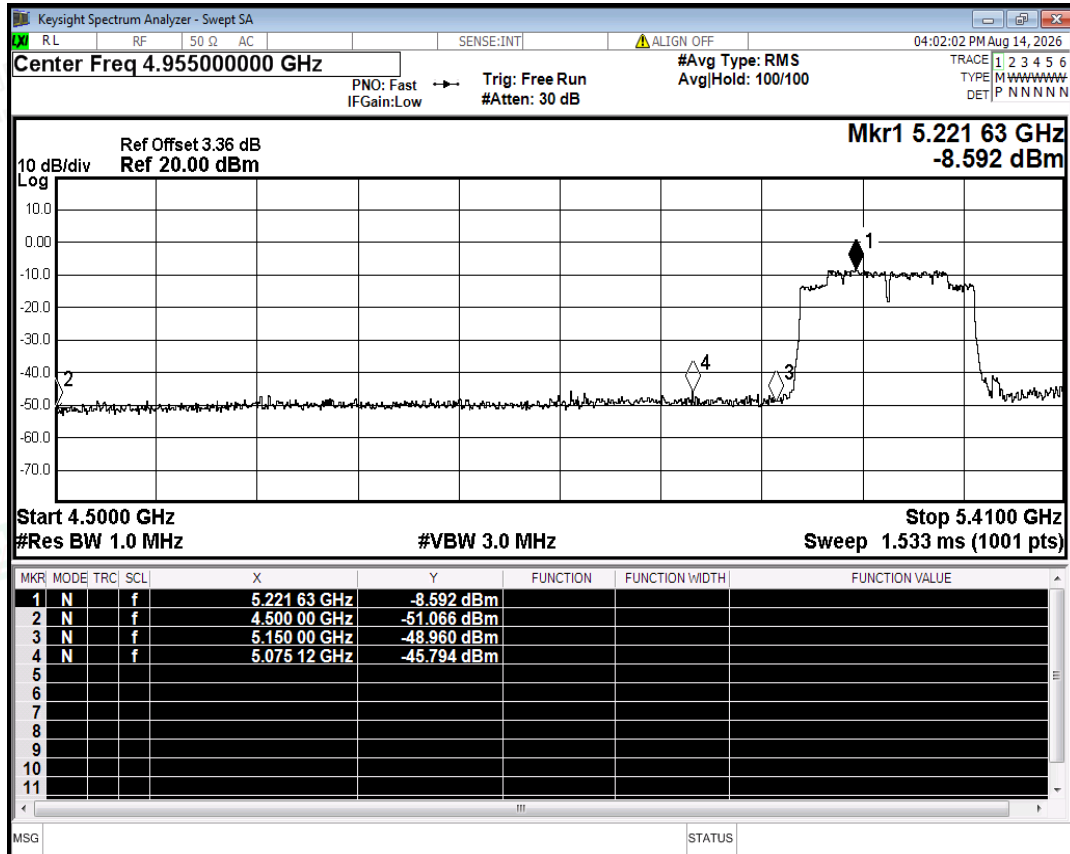
Restrict Band NVNT ac80 5210MHz Ant1 Average



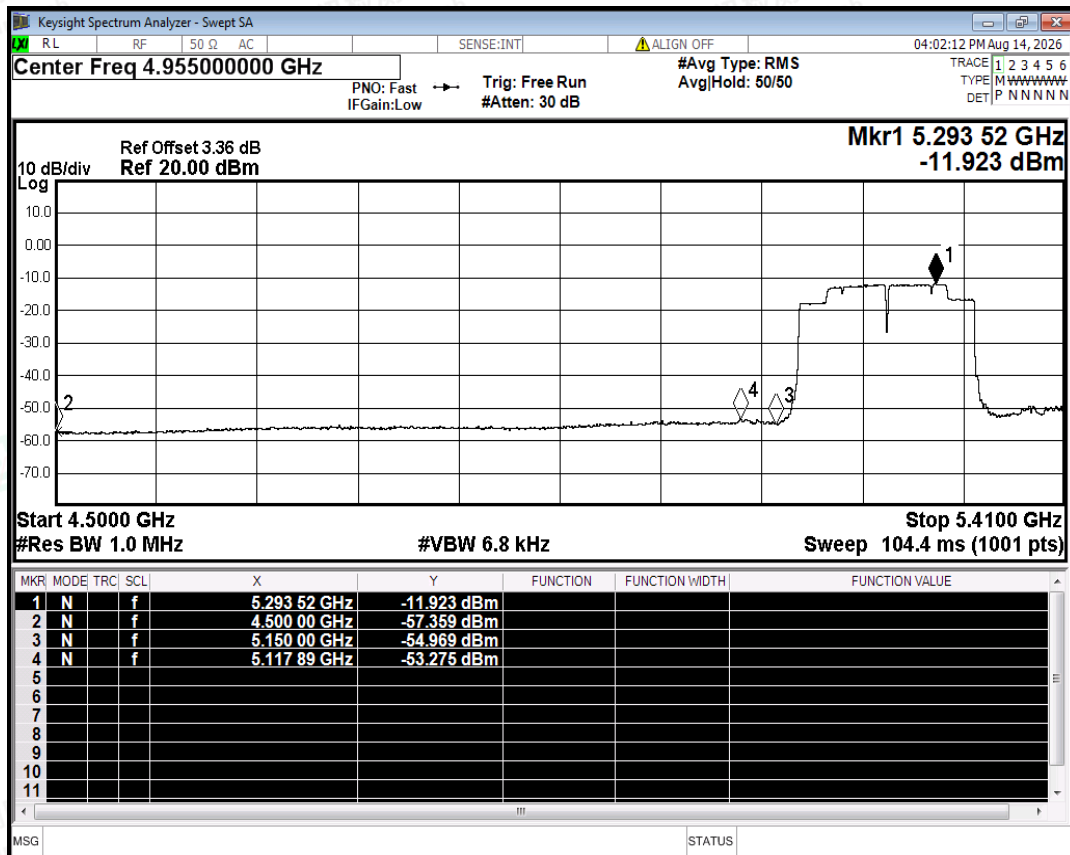
Restrict Band NVNT ac160 5250MHz Ant1 Peak



Restrict Band NVNT ac160 5250MHz Ant1 Average



Restrict Band NVNT ac160 5250MHz Ant1 Peak

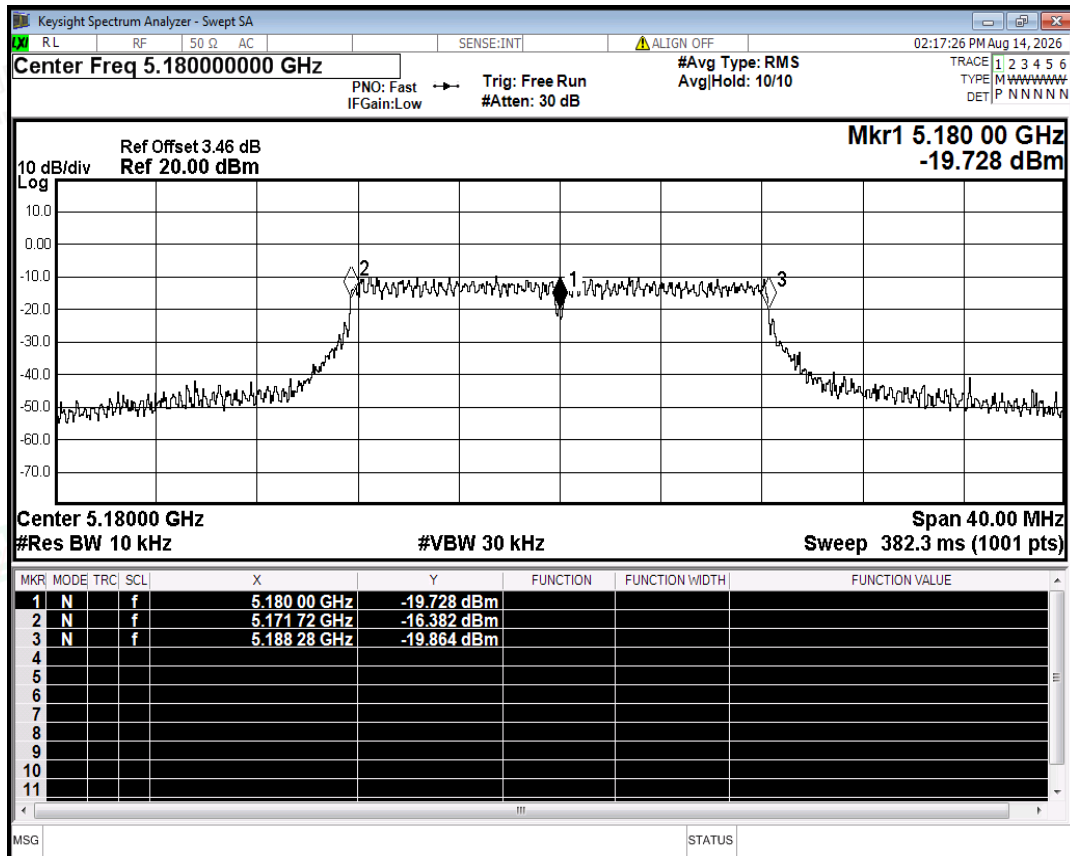


Restrict Band NVNT ac160 5250MHz Ant1 Average

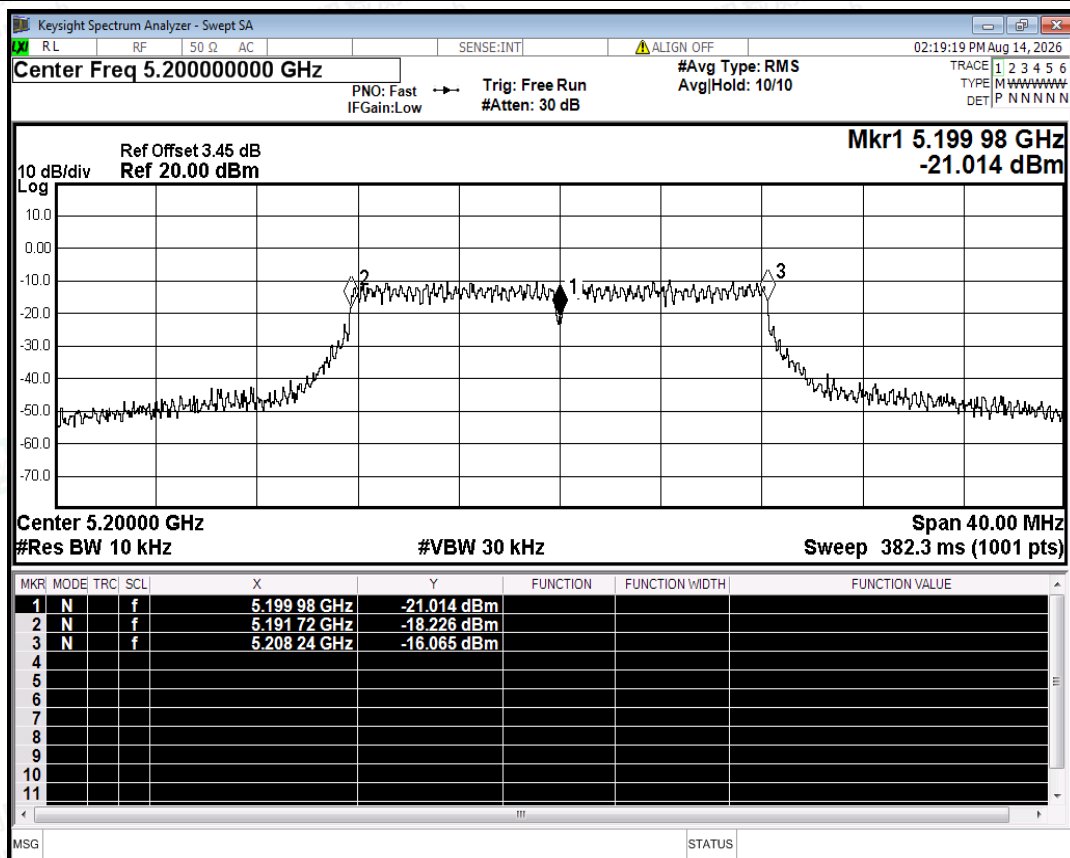


D.5 Frequency Stability

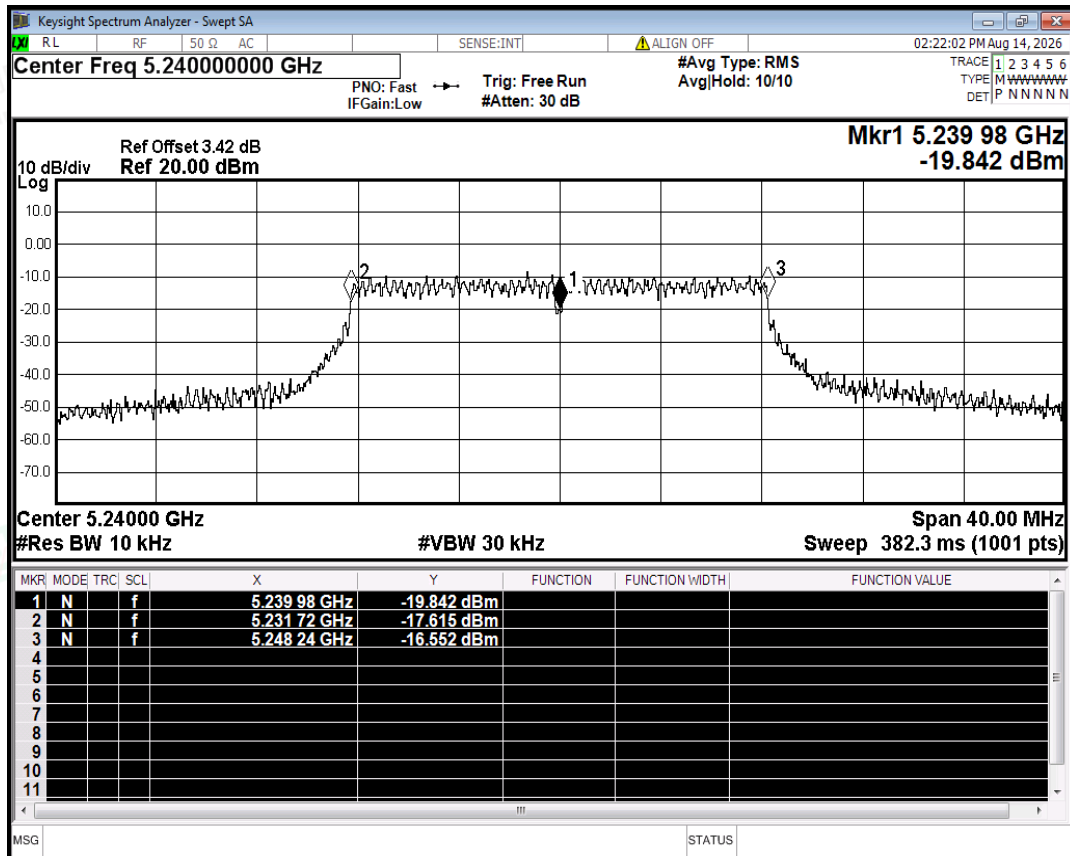
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	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	5199.96	-40000	-7.69	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	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



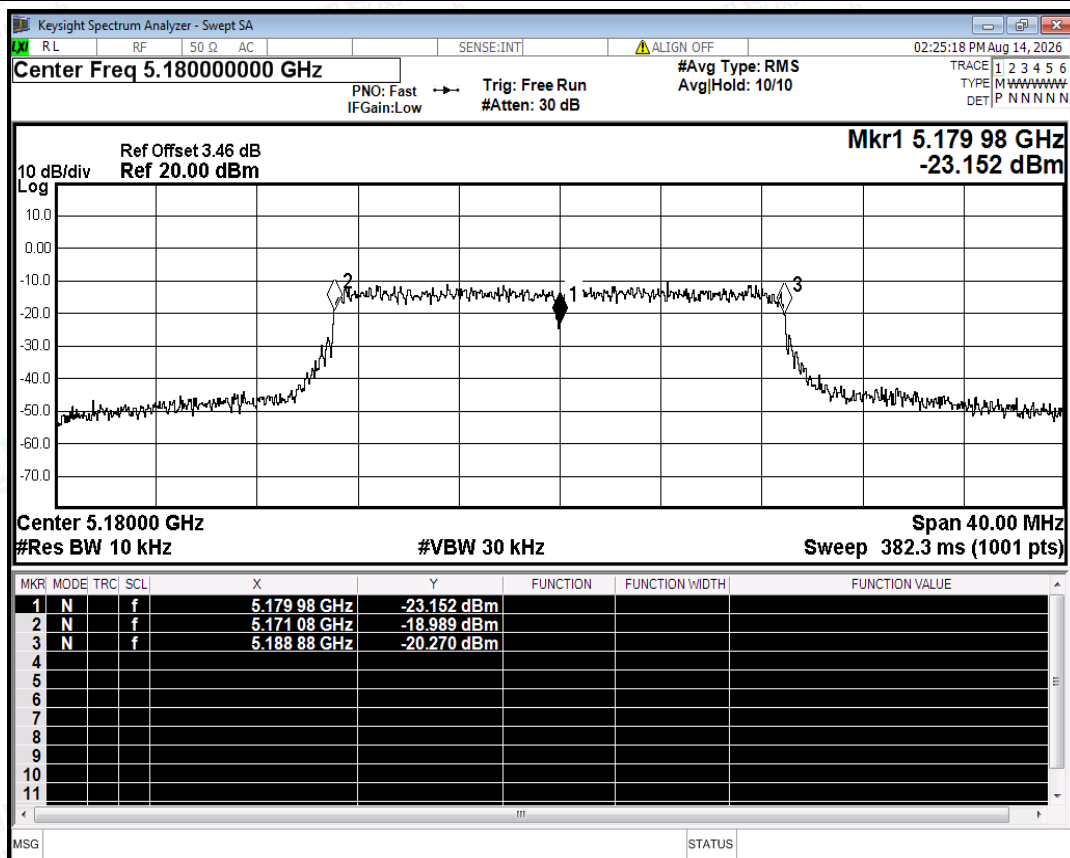
Freq. Stability NVNT a 5180MHz Ant1



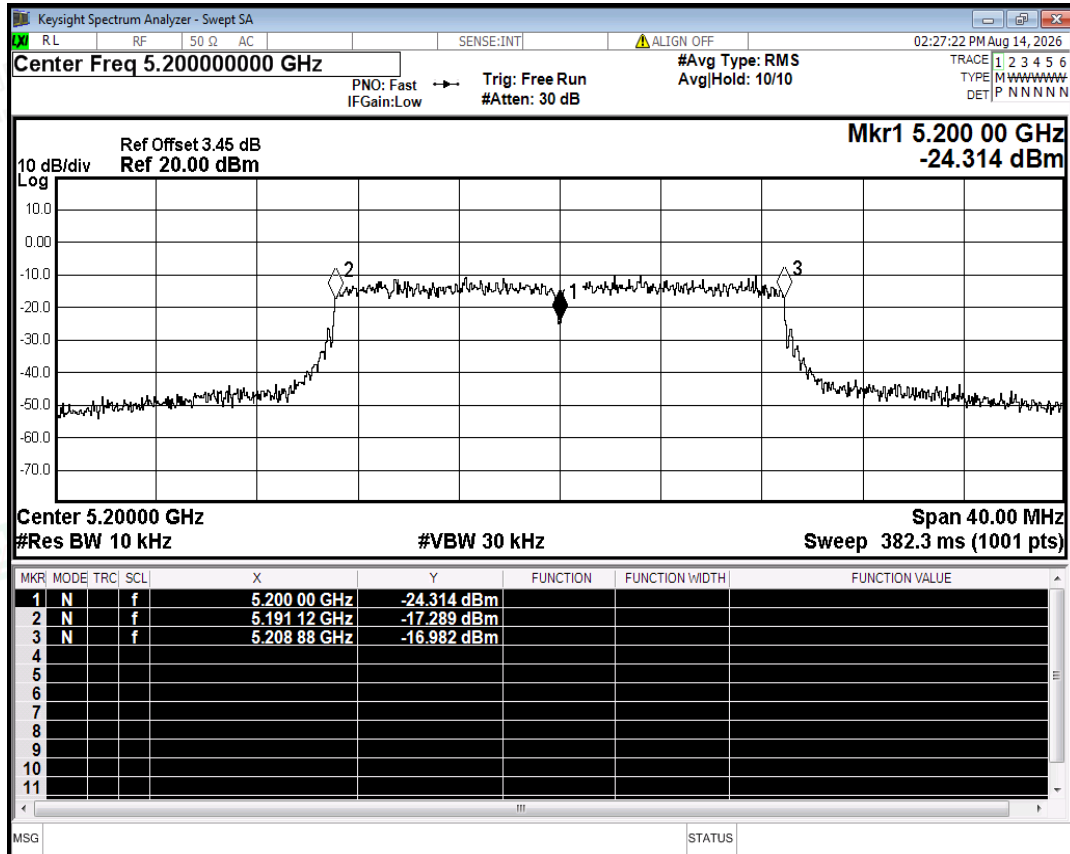
Freq. Stability NVNT a 5200MHz Ant1



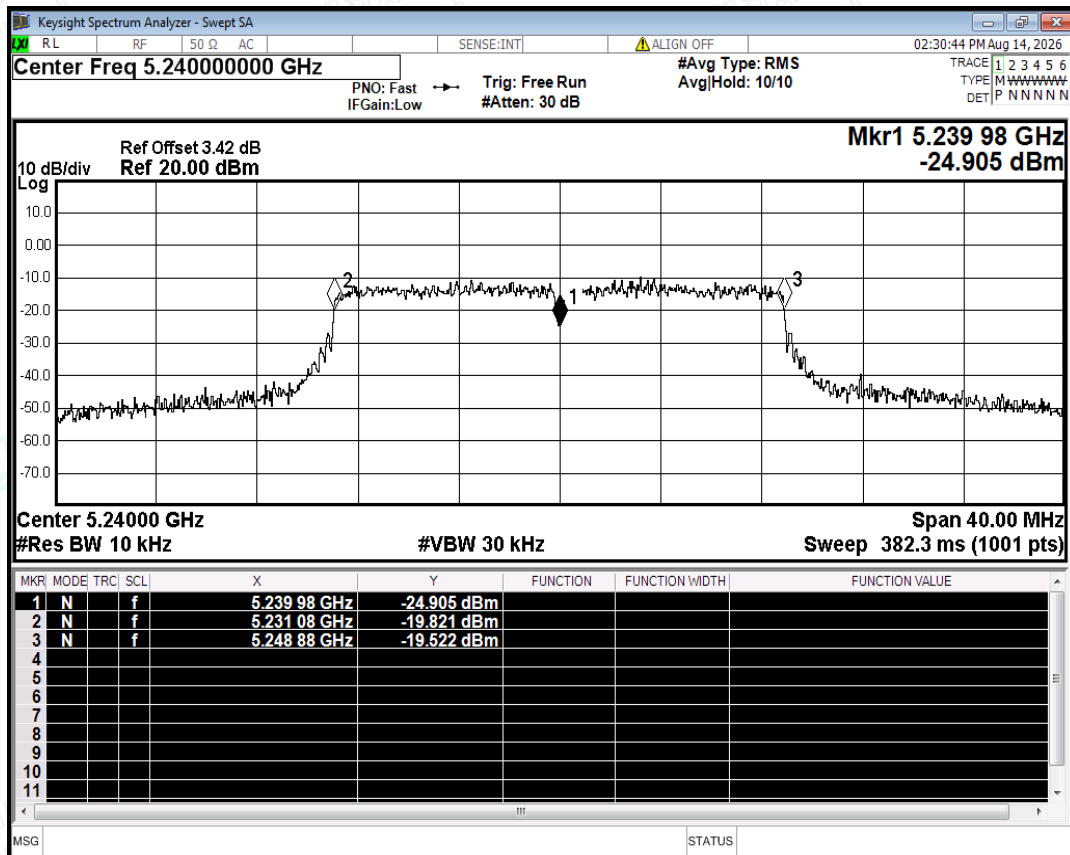
Freq. Stability NVNT a 5240MHz Ant1



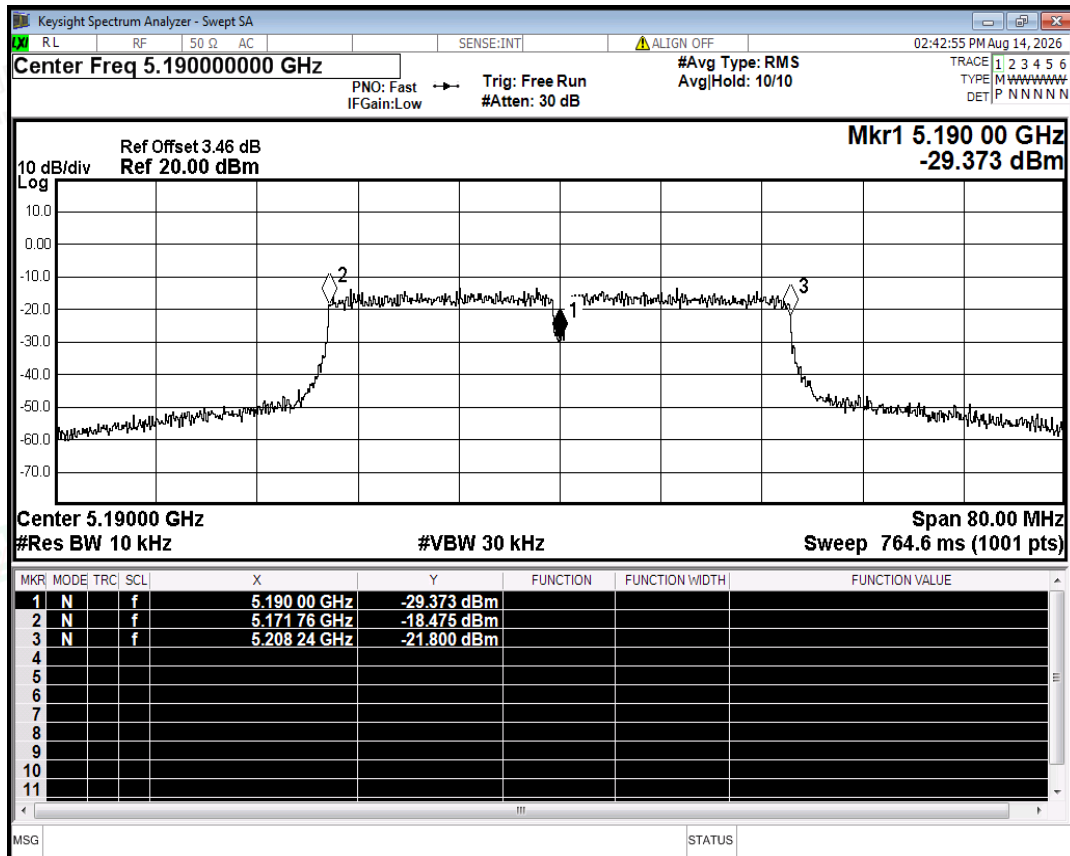
Freq. Stability NVNT n20 5180MHz Ant1



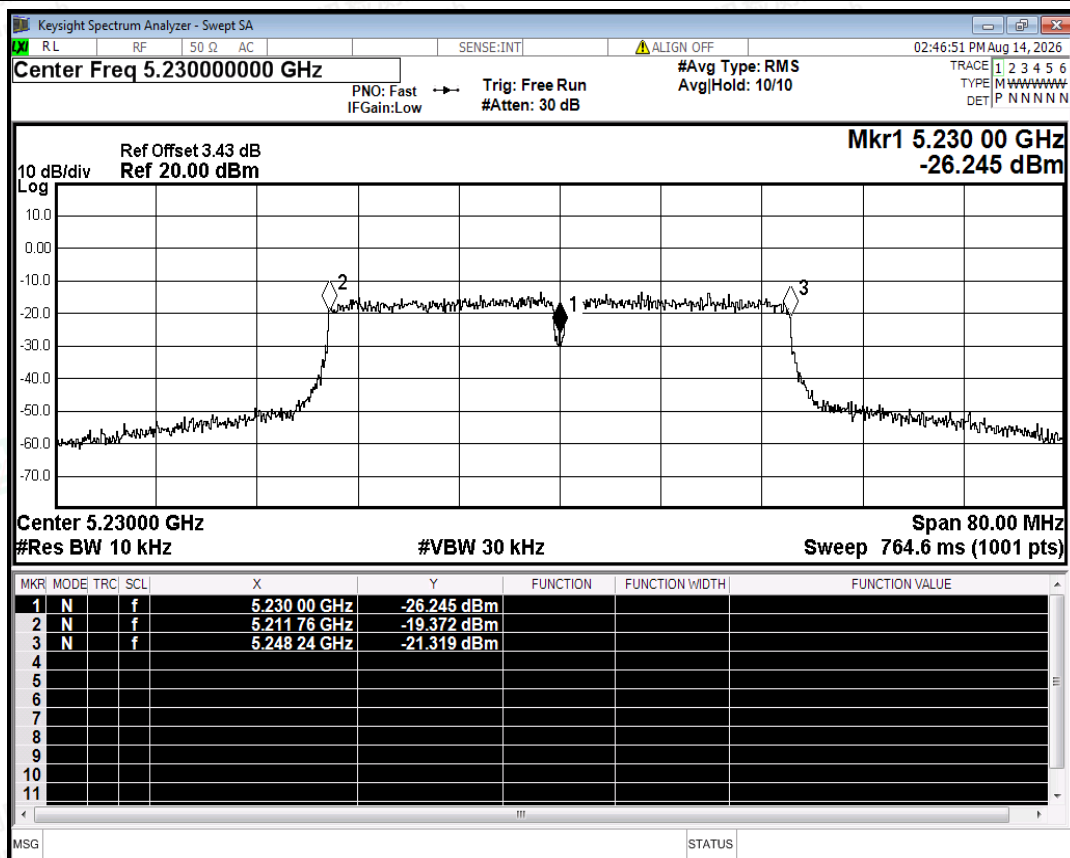
Freq. Stability NVNT n20 5200MHz Ant1



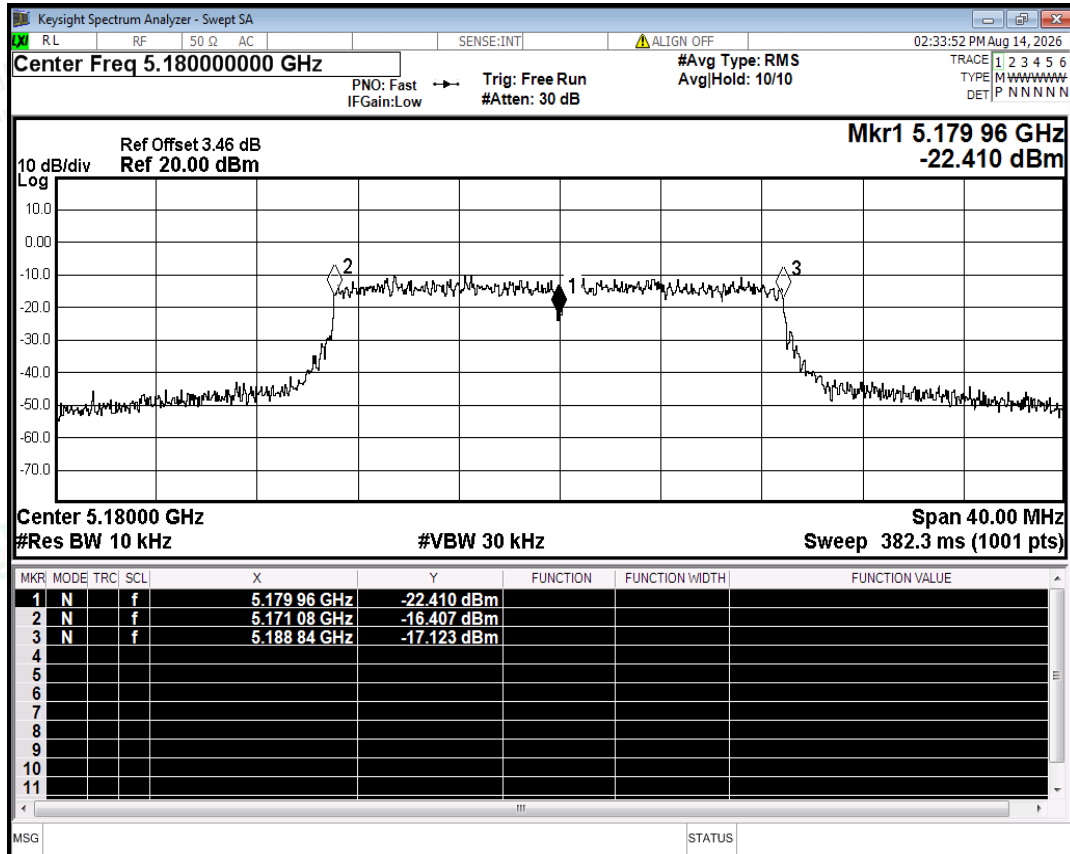
Freq. Stability NVNT n20 5240MHz Ant1



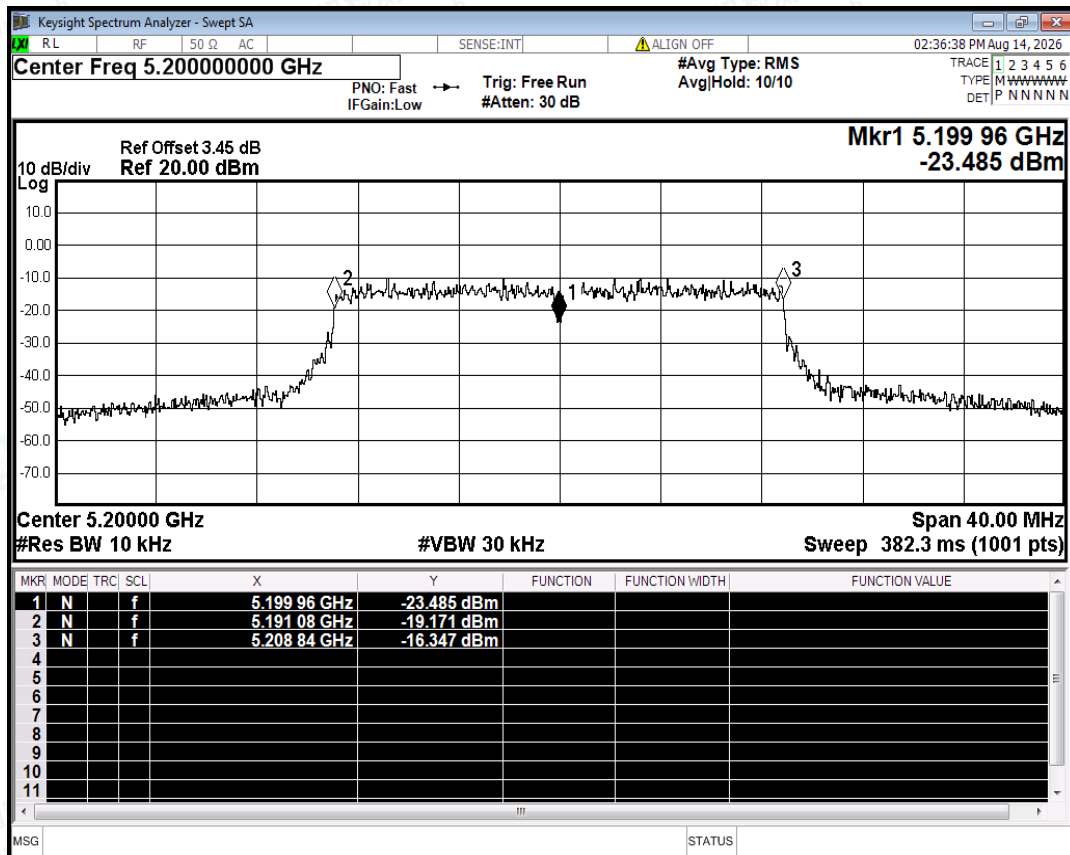
Freq. Stability NVNT n40 5190MHz Ant1



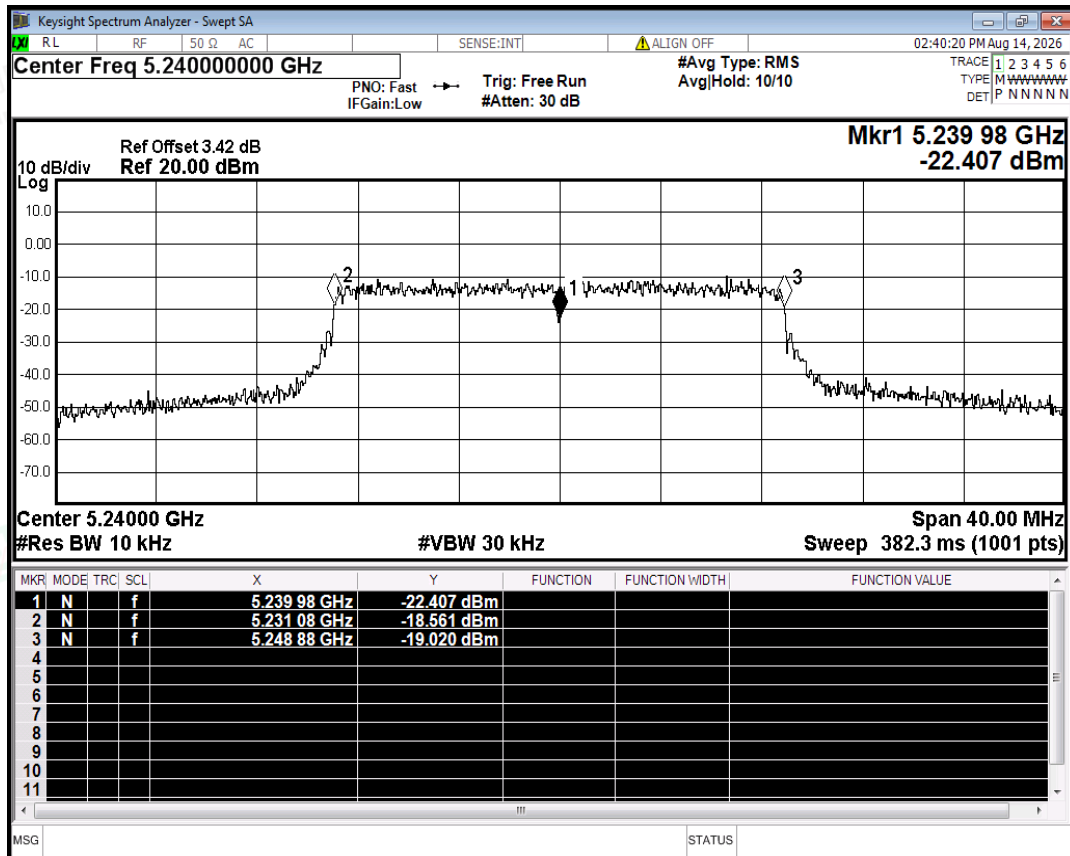
Freq. Stability NVNT n40 5230MHz Ant1



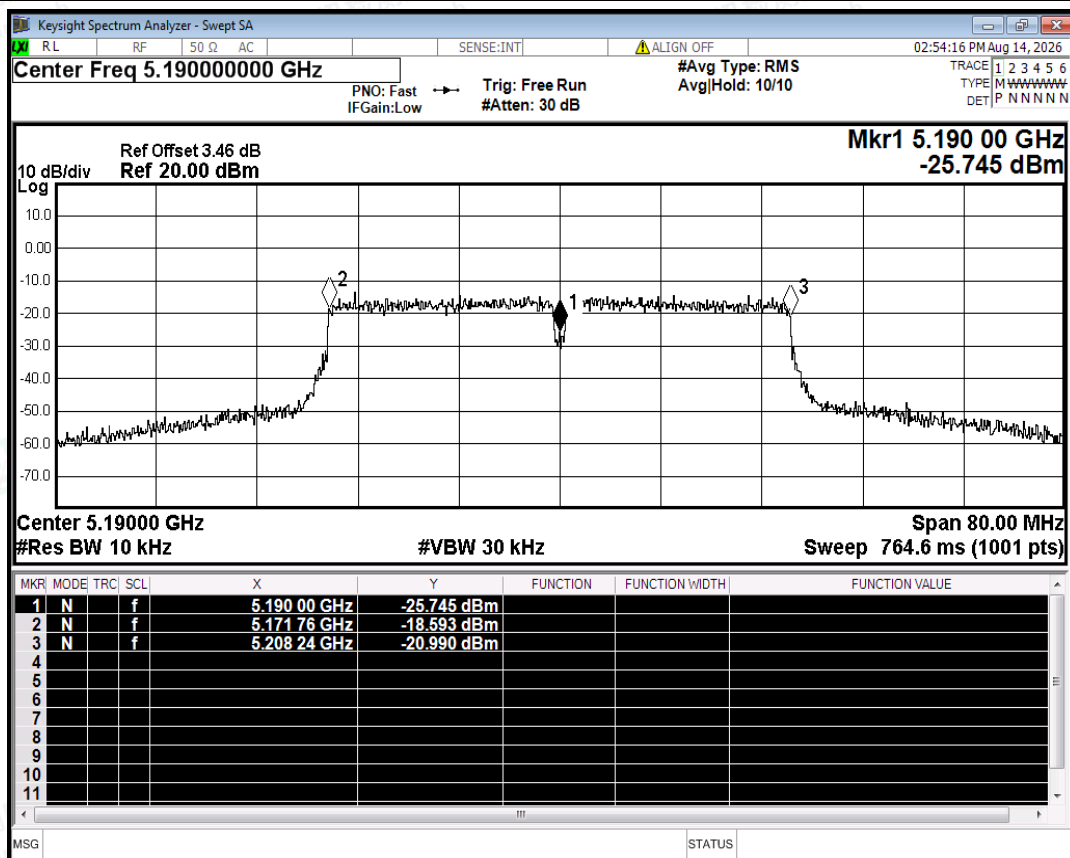
Freq. Stability NVNT ac20 5180MHz Ant1



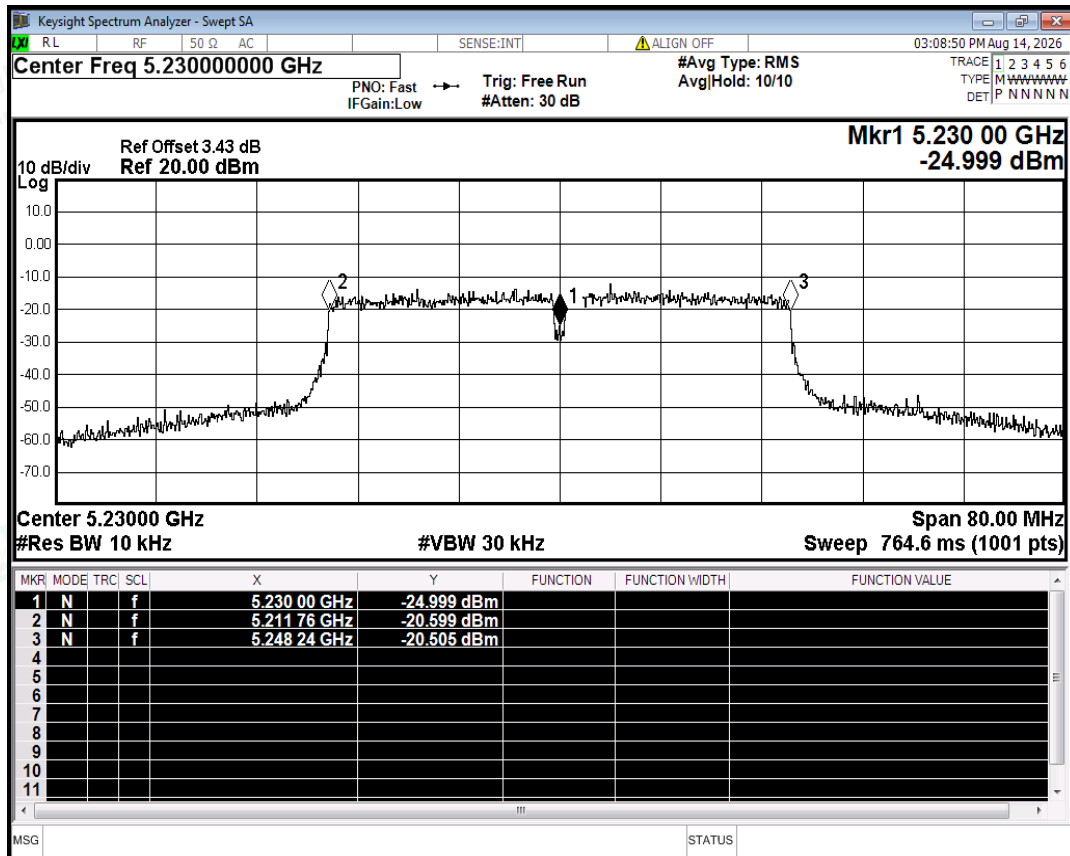
Freq. Stability NVNT ac20 5200MHz Ant1



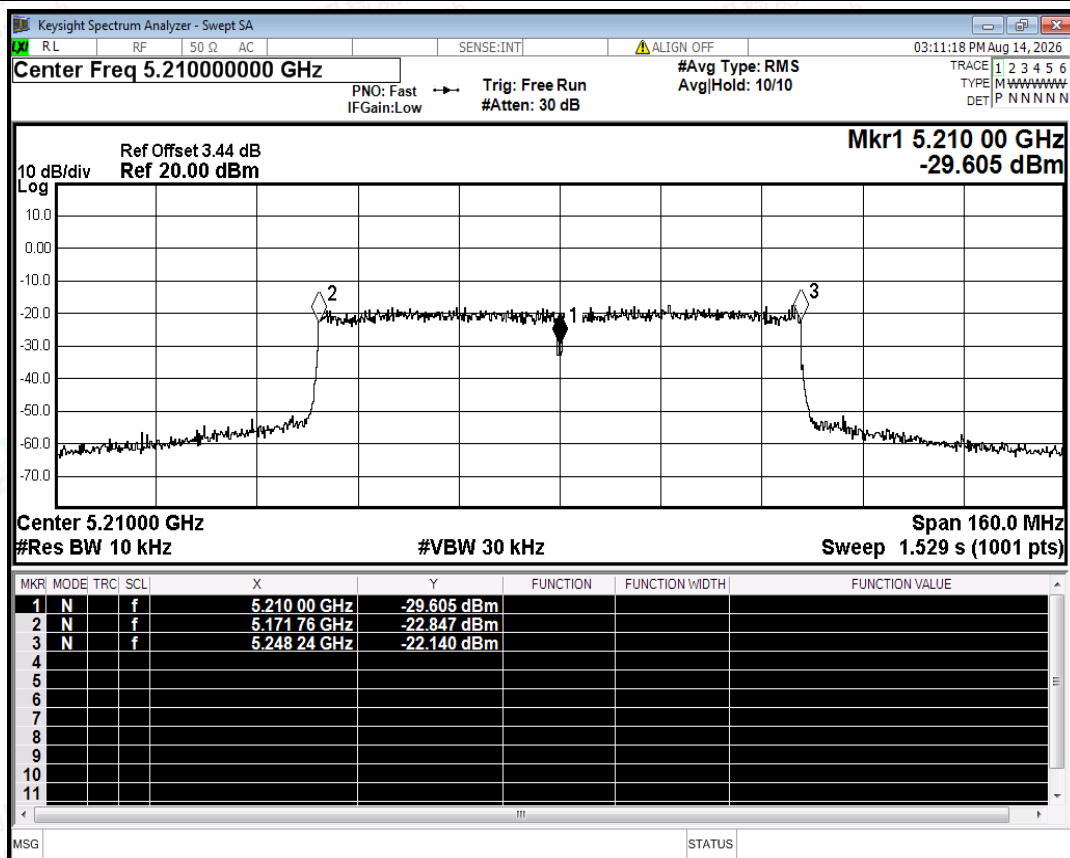
Freq. Stability NVNT ac20 5240MHz Ant1



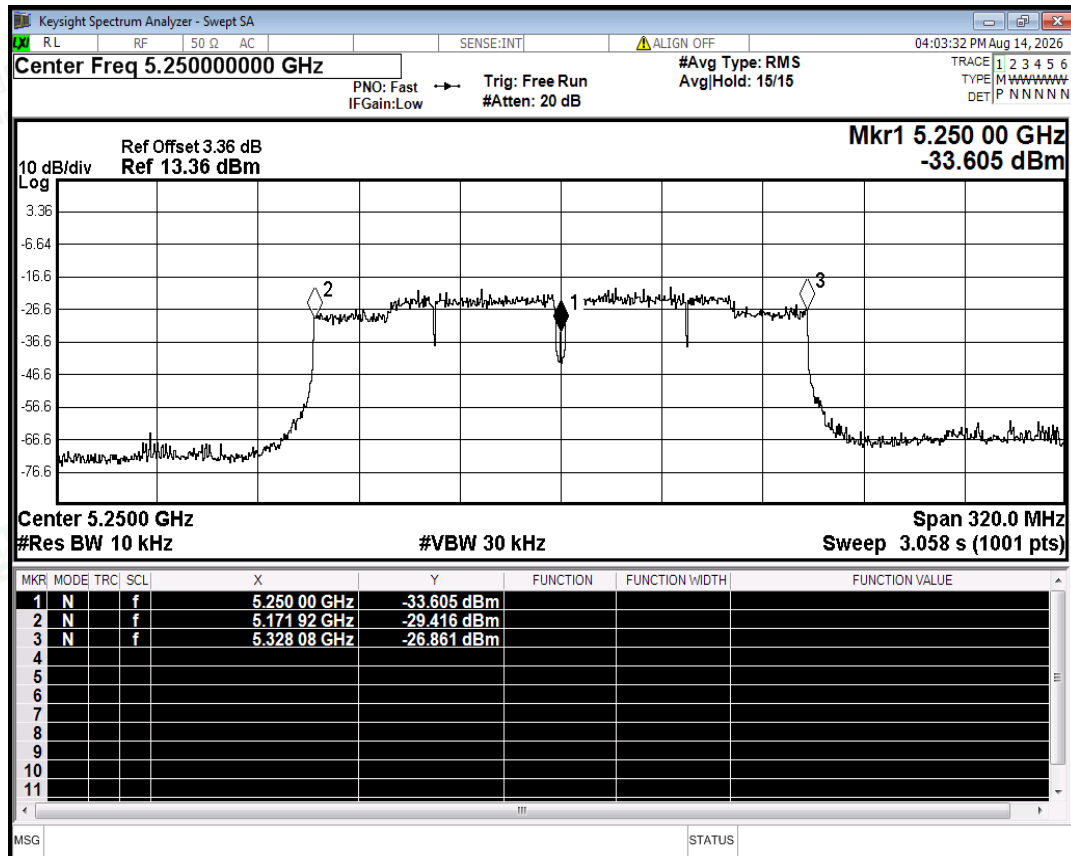
Freq. Stability NVNT ac40 5190MHz Ant1



Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1

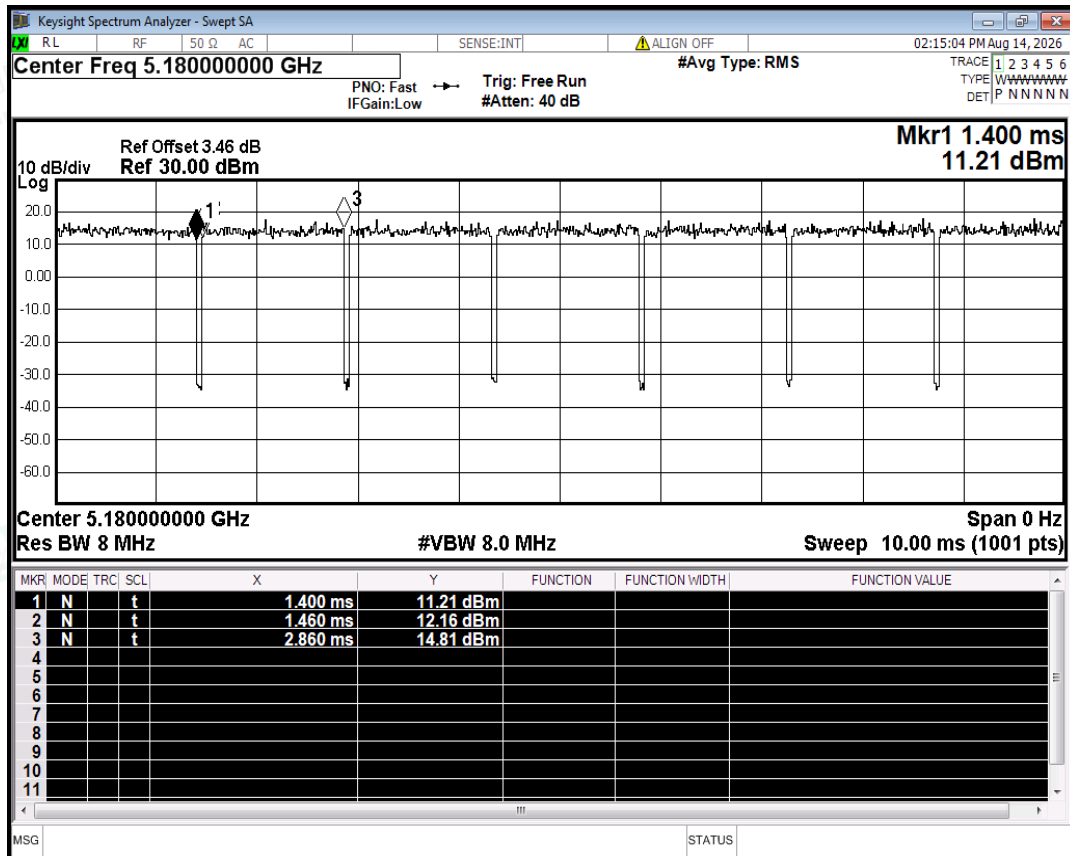


Freq. Stability NVNT ac160 5250MHz Ant1

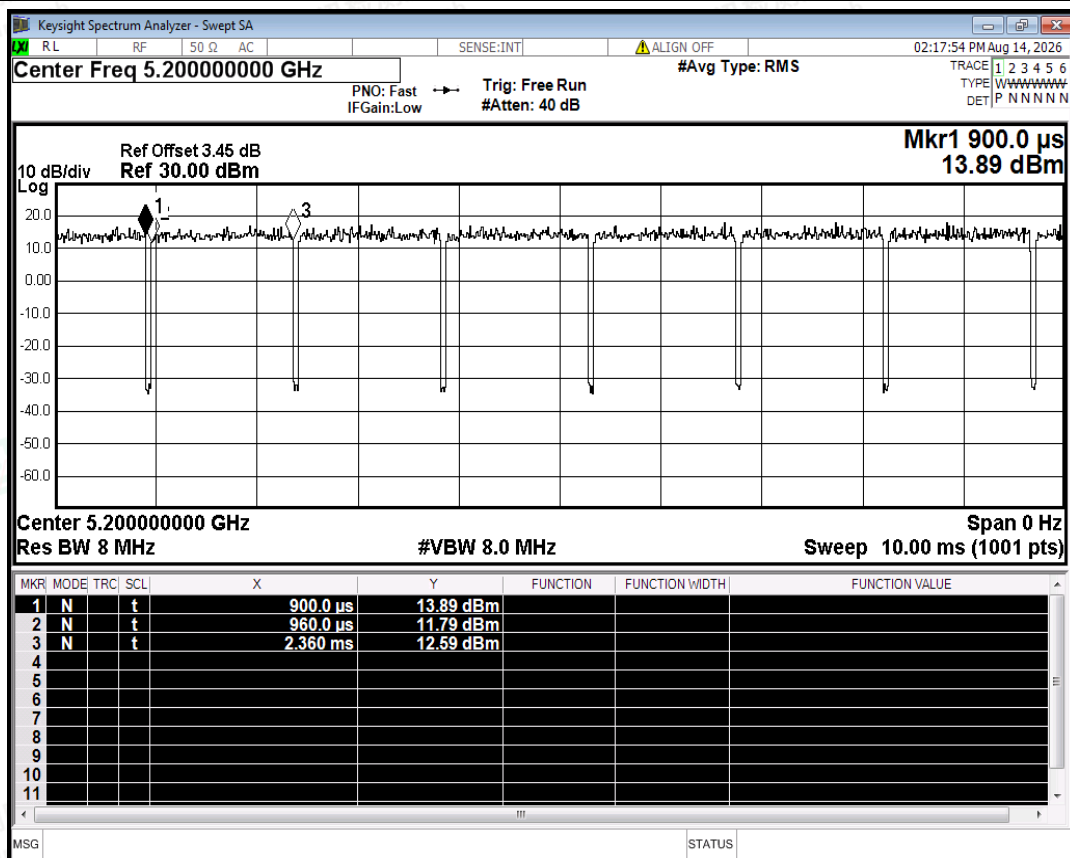


D.6 Duty Cycle

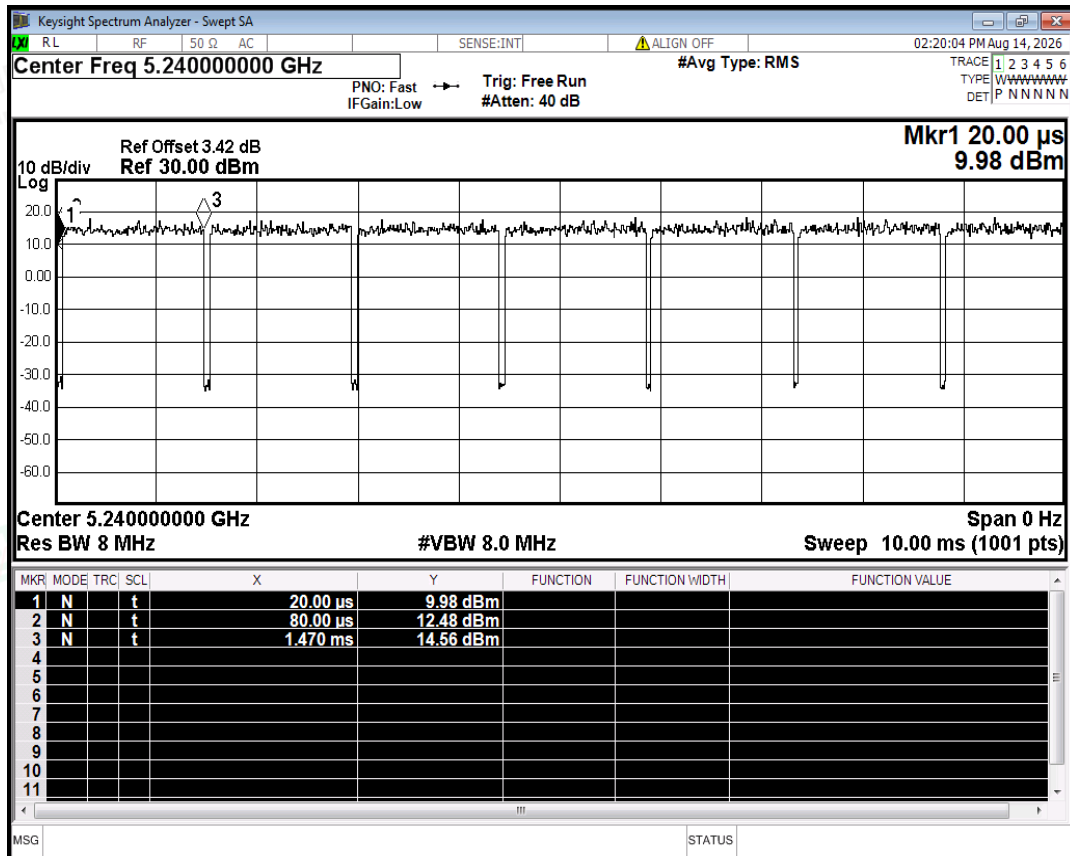
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	95.89	0.18	0.71
NVNT	a	5200	Ant1	95.89	0.18	0.71
NVNT	a	5240	Ant1	95.86	0.18	0.72
NVNT	n20	5180	Ant1	94.4	0.25	0.85
NVNT	n20	5200	Ant1	94.4	0.25	0.85
NVNT	n20	5240	Ant1	95.16	0.22	0.85
NVNT	n40	5190	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	95.2	0.21	0.84
NVNT	ac40	5190	Ant1	90.91	0.41	1.67
NVNT	ac40	5230	Ant1	90.77	0.42	1.69
NVNT	ac80	5210	Ant1	83.33	0.79	3.33
NVNT	ac160	5250	Ant1	76.19	1.18	6.25



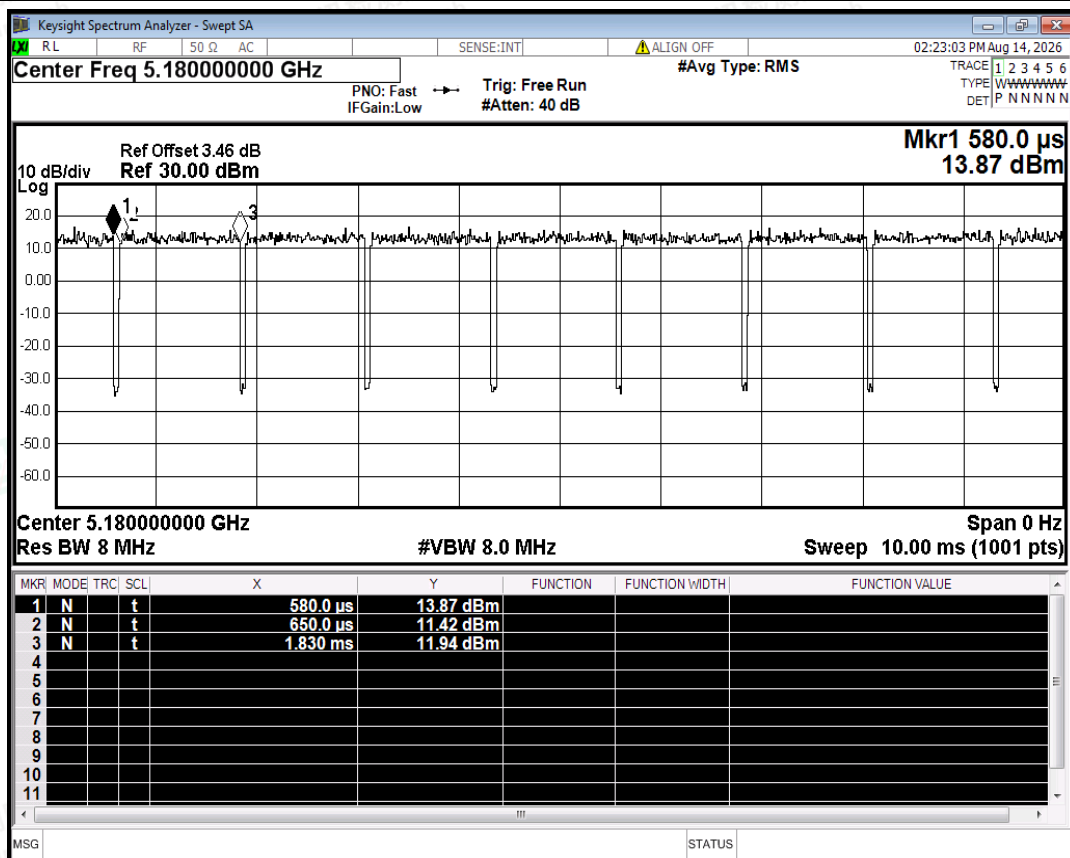
Duty Cycle NVNT a 5180MHz Ant1



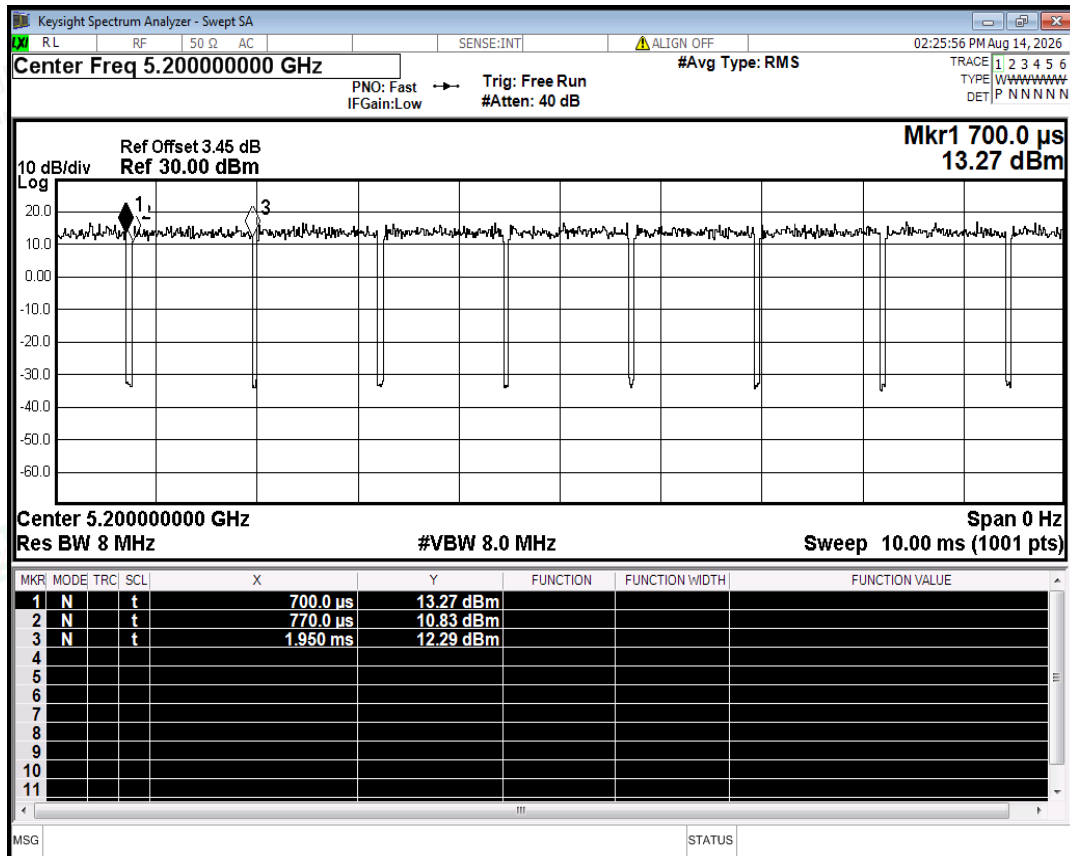
Duty Cycle NVNT a 5200MHz Ant1



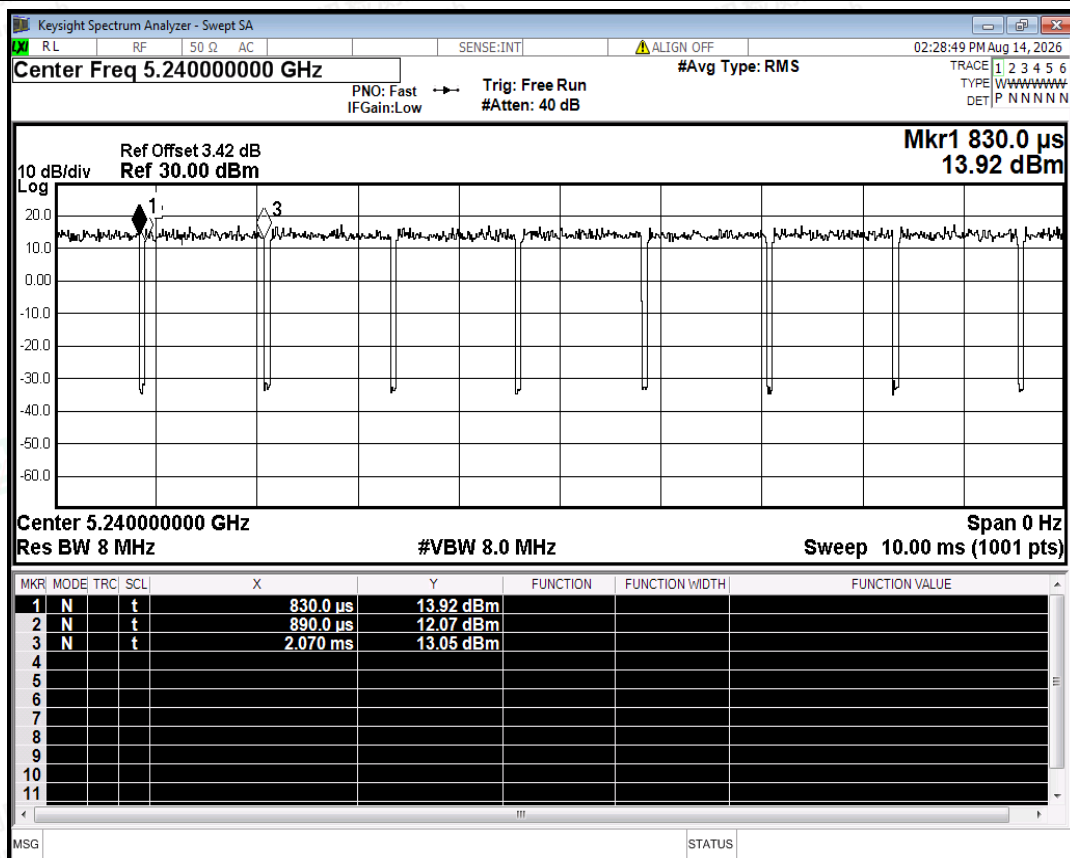
Duty Cycle NVNT a 5240MHz Ant1



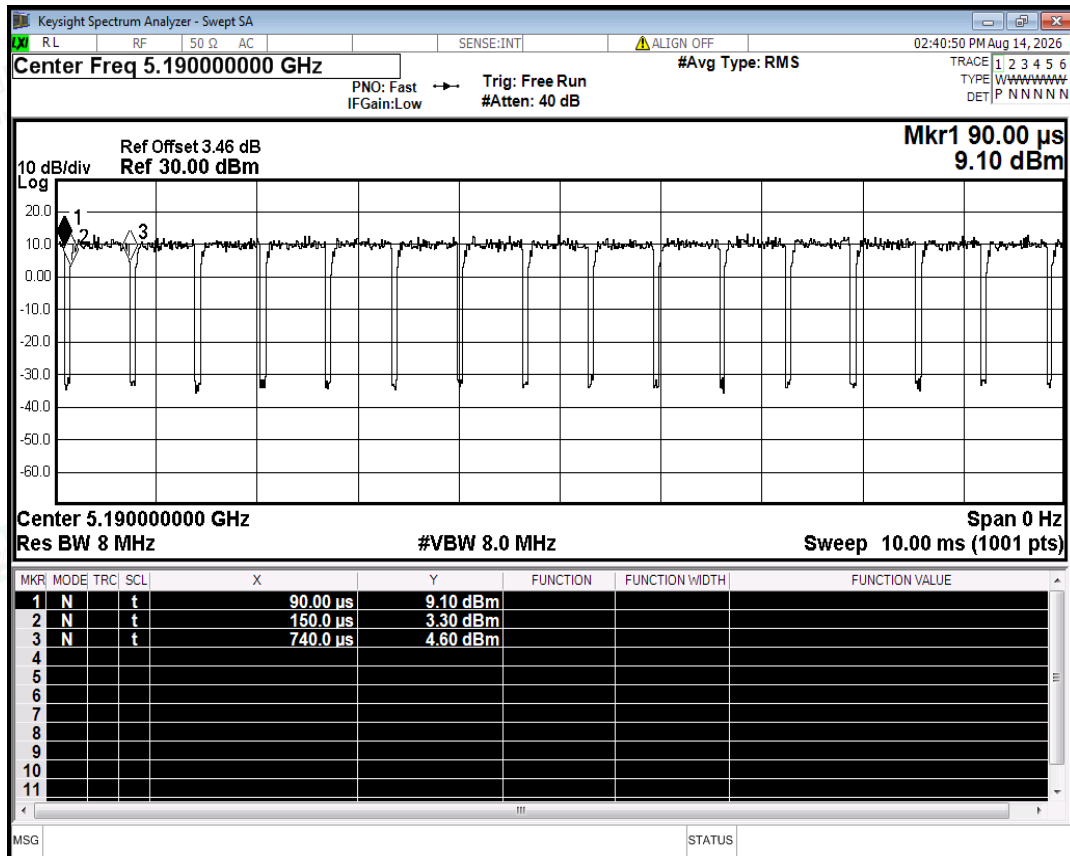
Duty Cycle NVNT n20 5180MHz Ant1



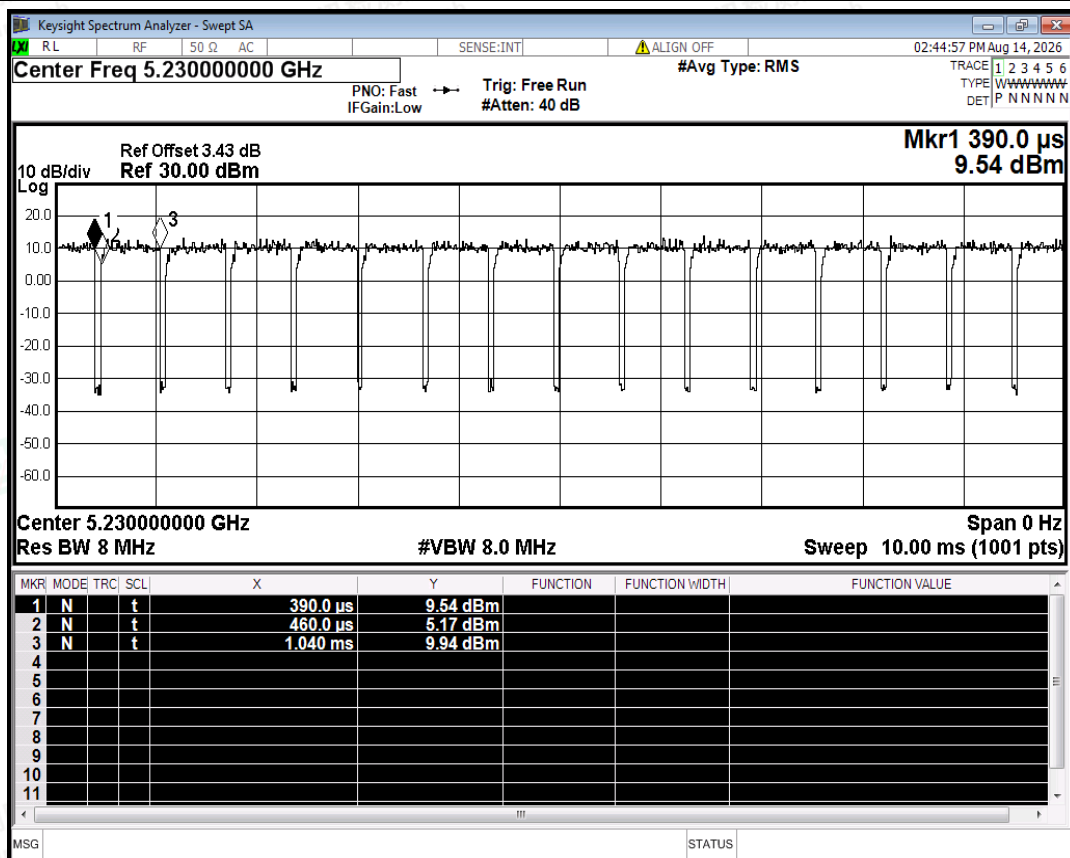
Duty Cycle NVNT n20 5200MHz Ant1



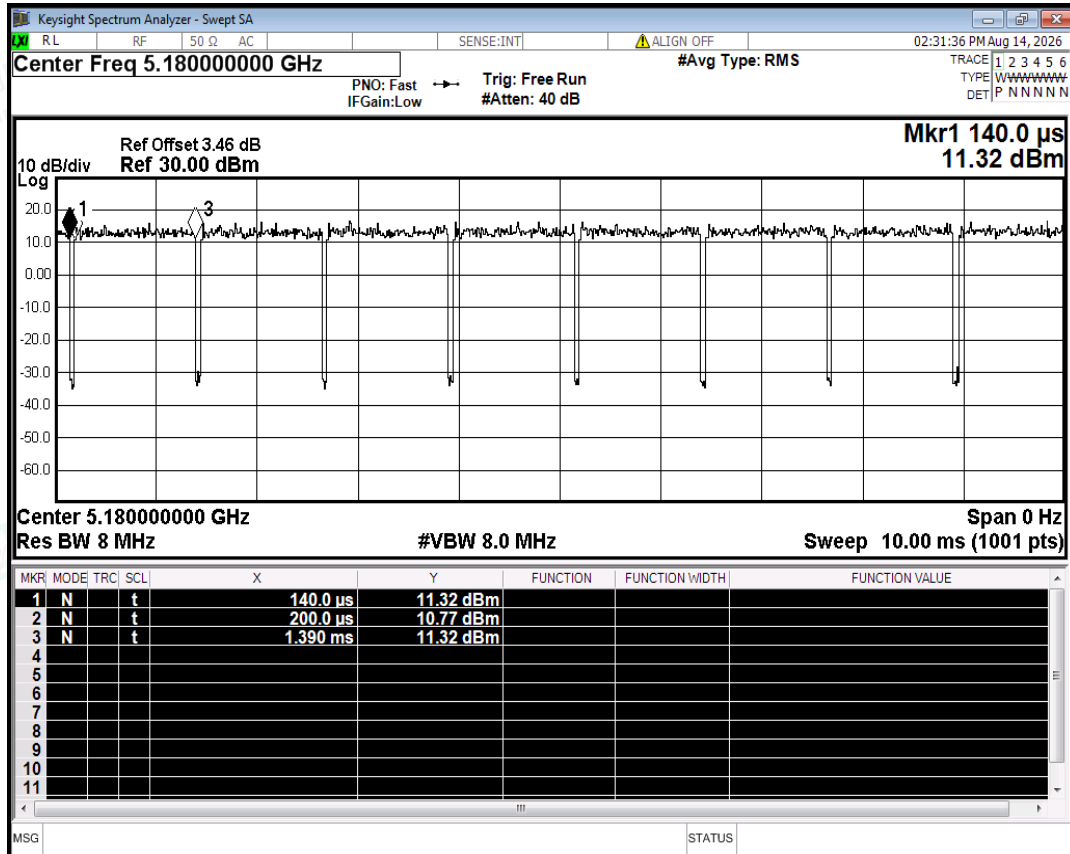
Duty Cycle NVNT n20 5240MHz Ant1



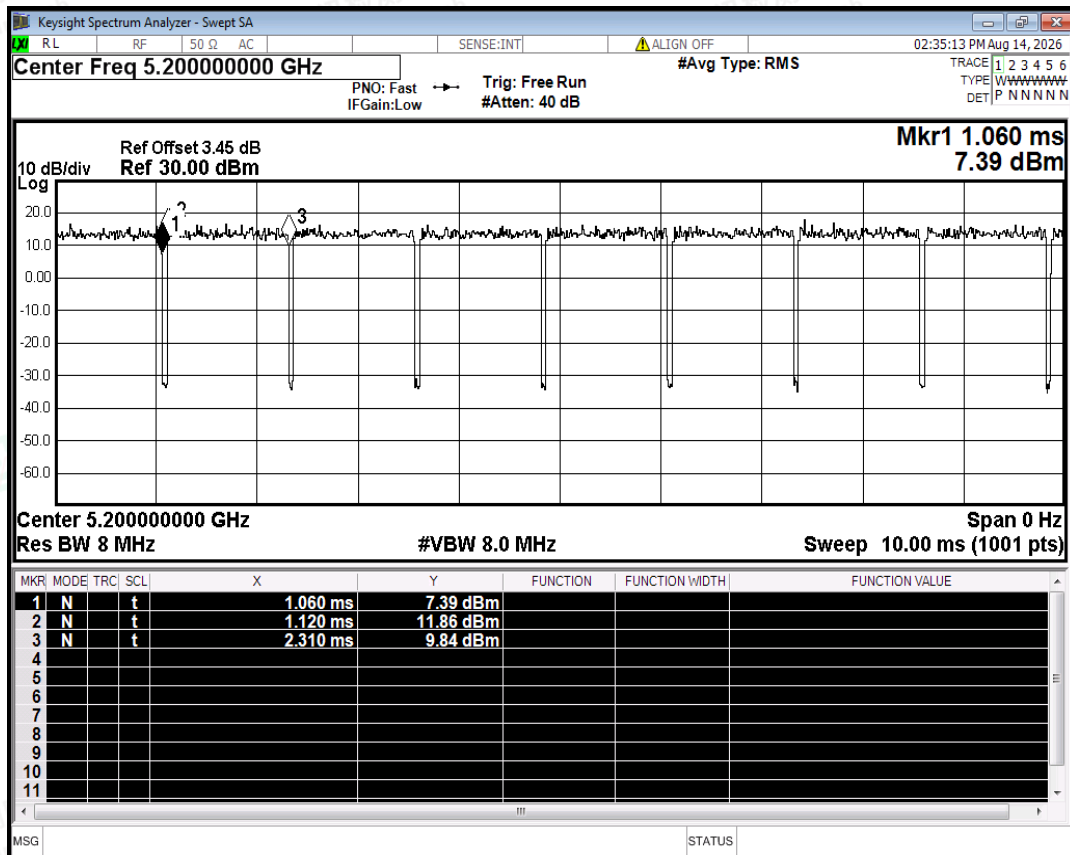
Duty Cycle NVNT n40 5190MHz Ant1



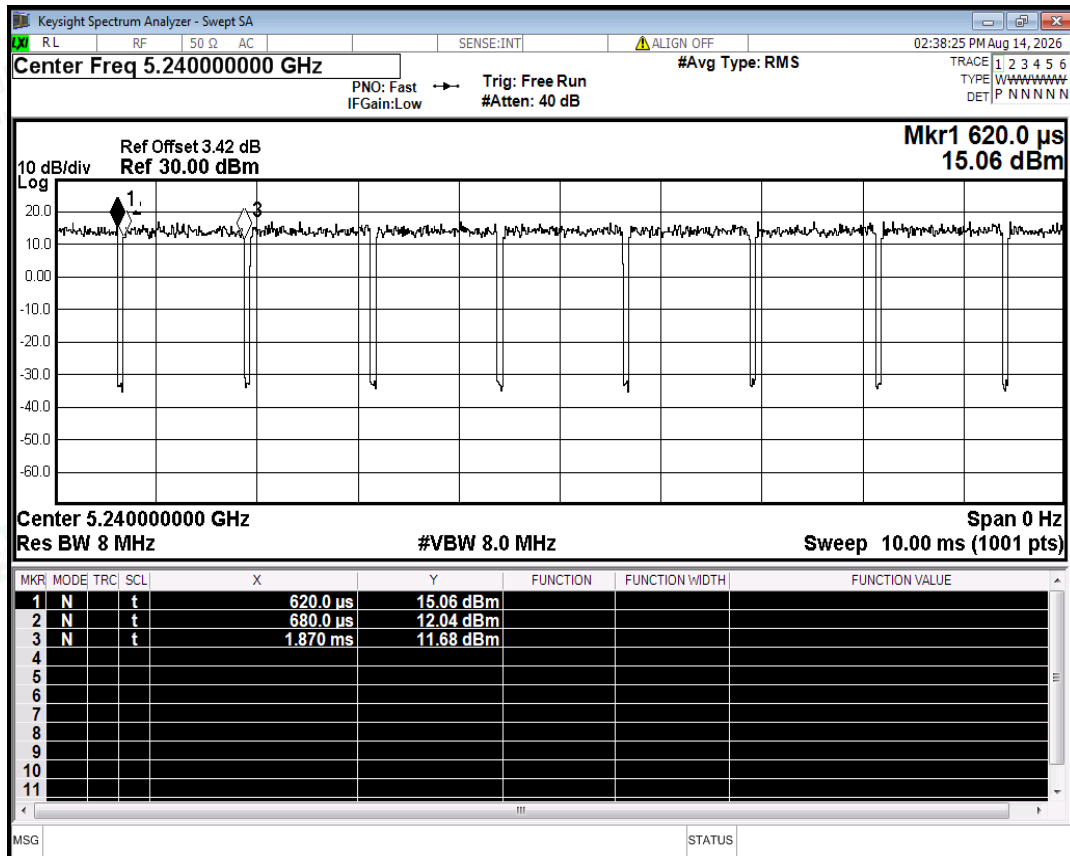
Duty Cycle NVNT n40 5230MHz Ant1



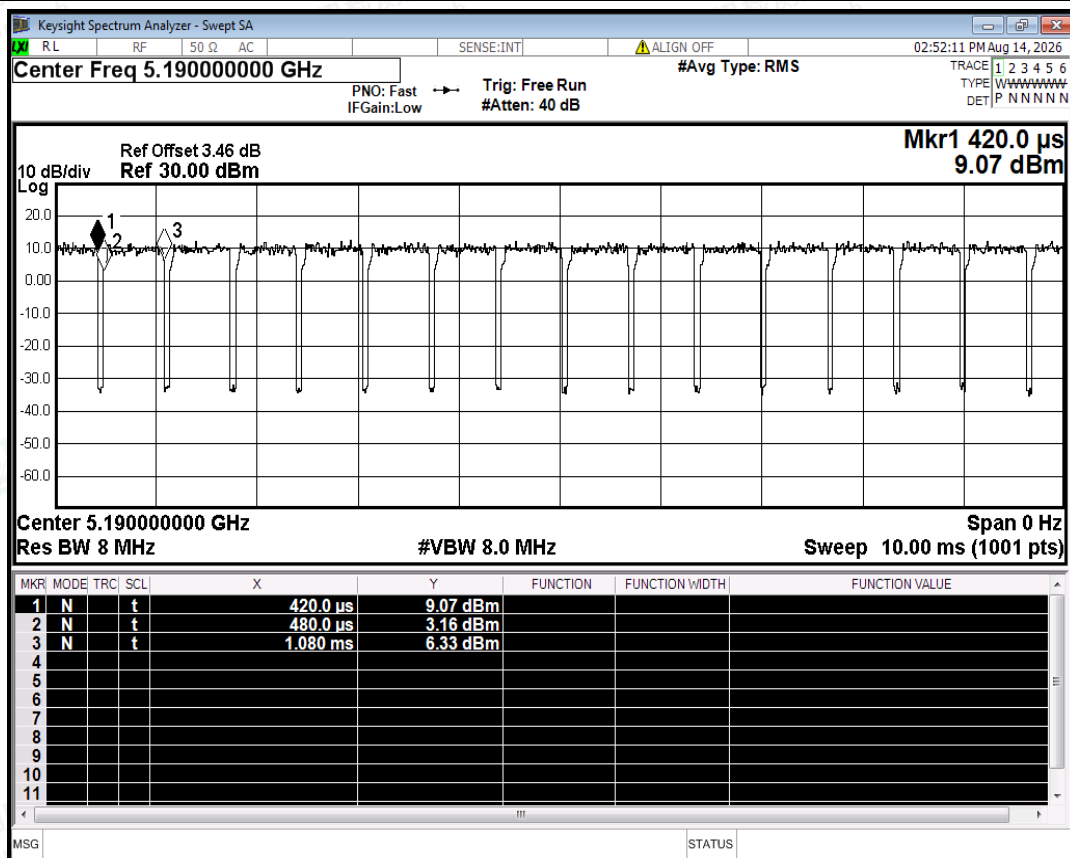
Duty Cycle NVNT ac20 5180MHz Ant1



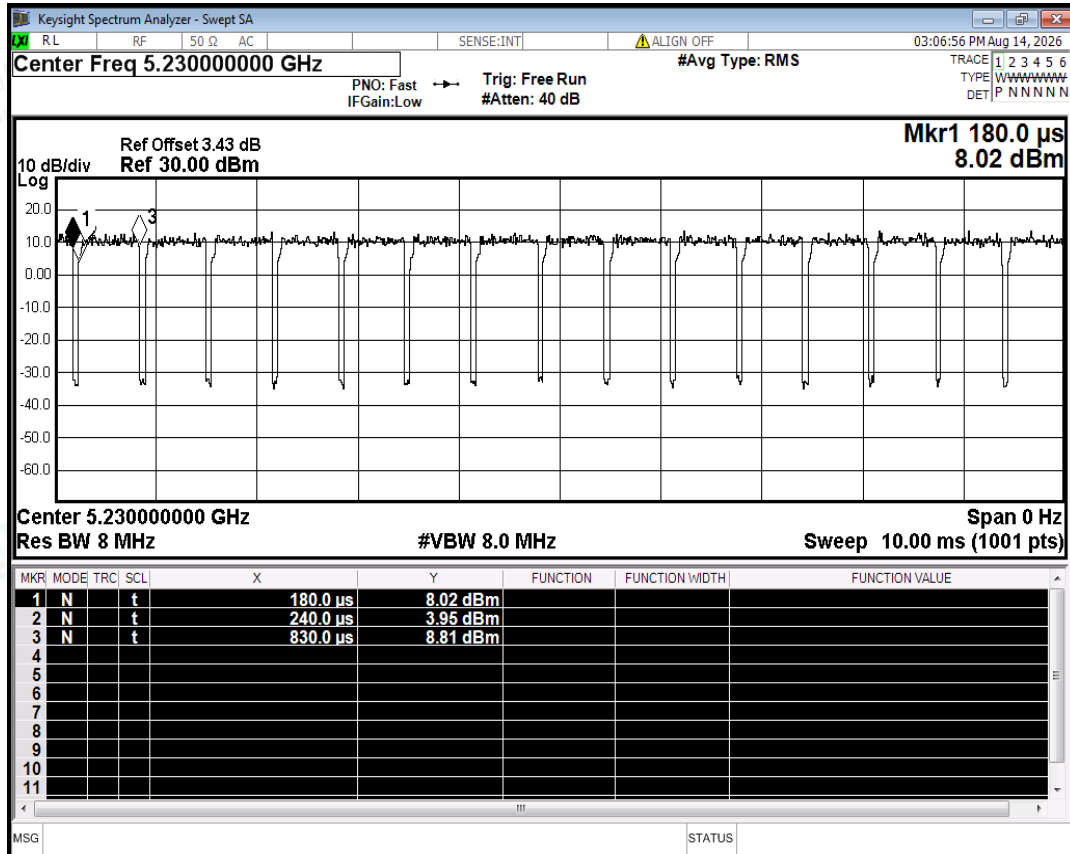
Duty Cycle NVNT ac20 5200MHz Ant1



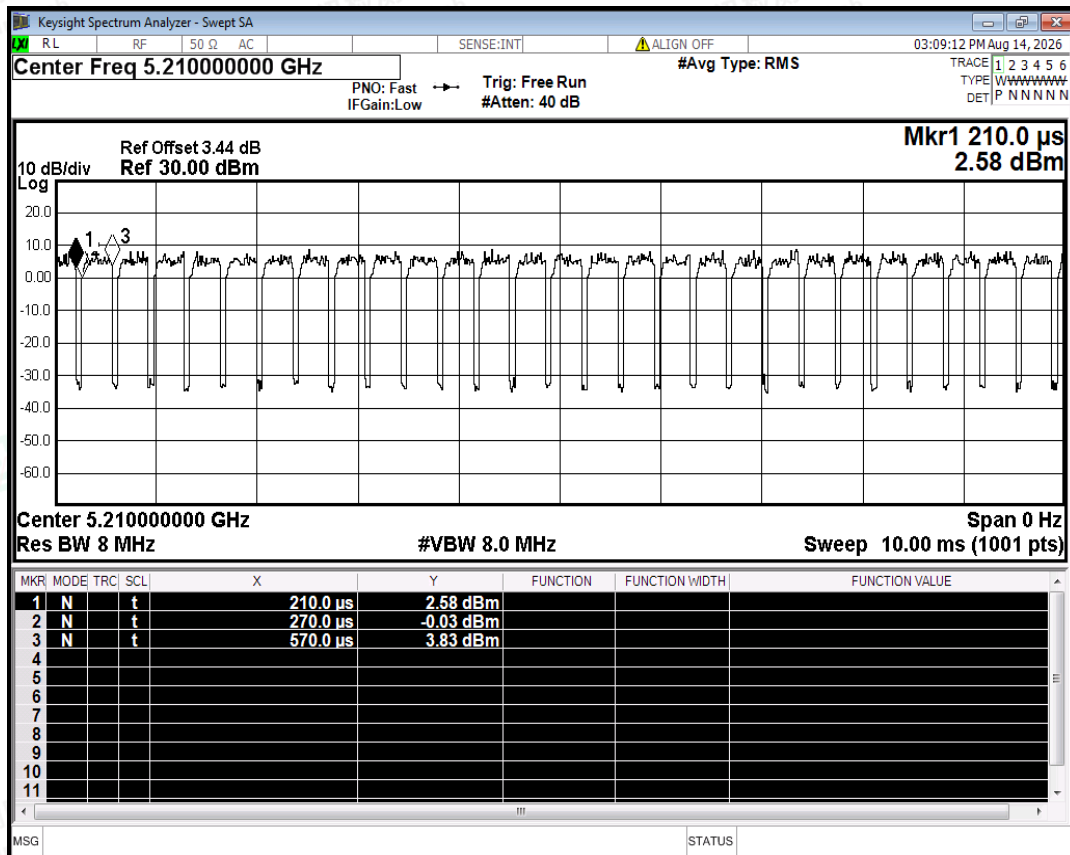
Duty Cycle NVNT ac20 5240MHz Ant1



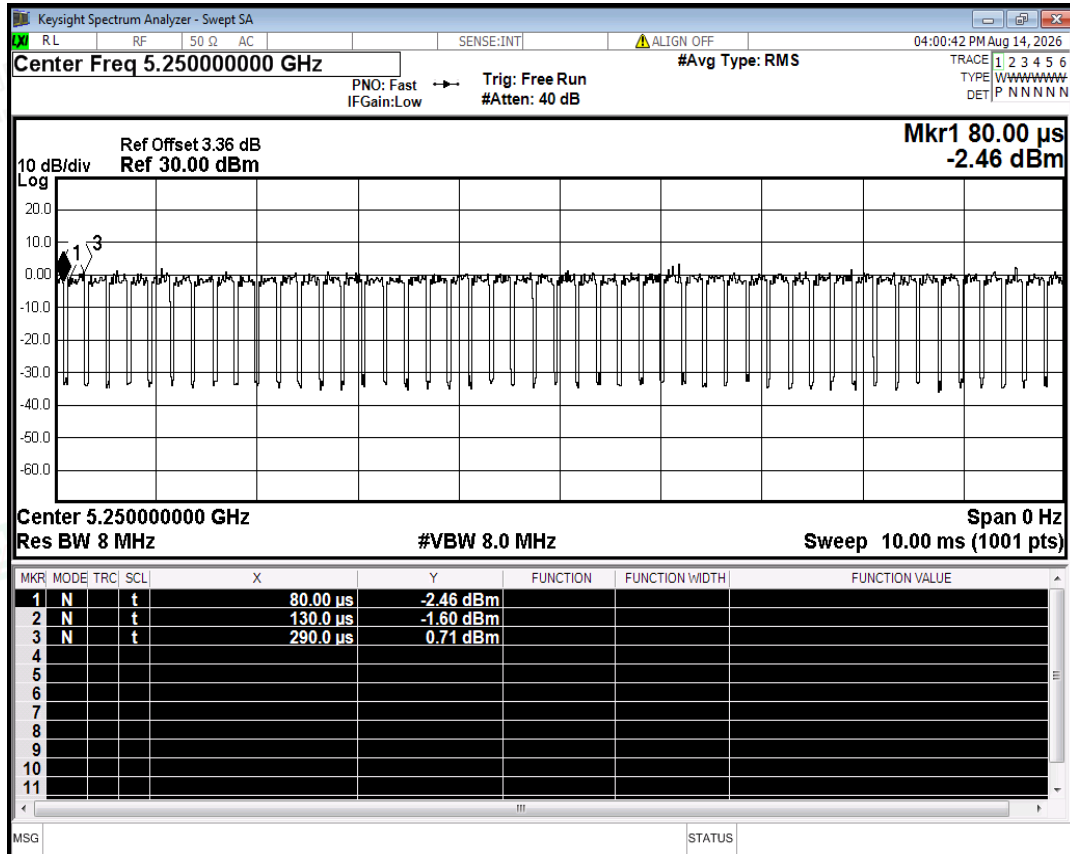
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac160 5250MHz Ant1