



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Mobile phone

Test Model: F161

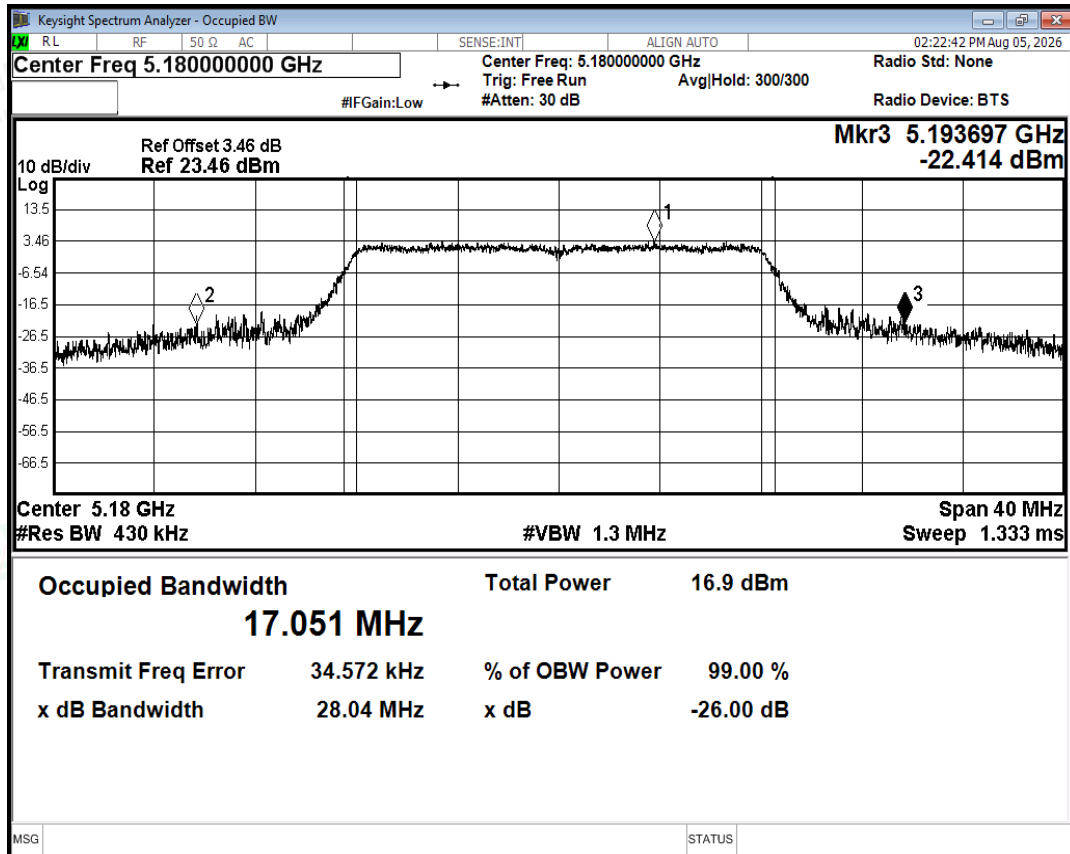
Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

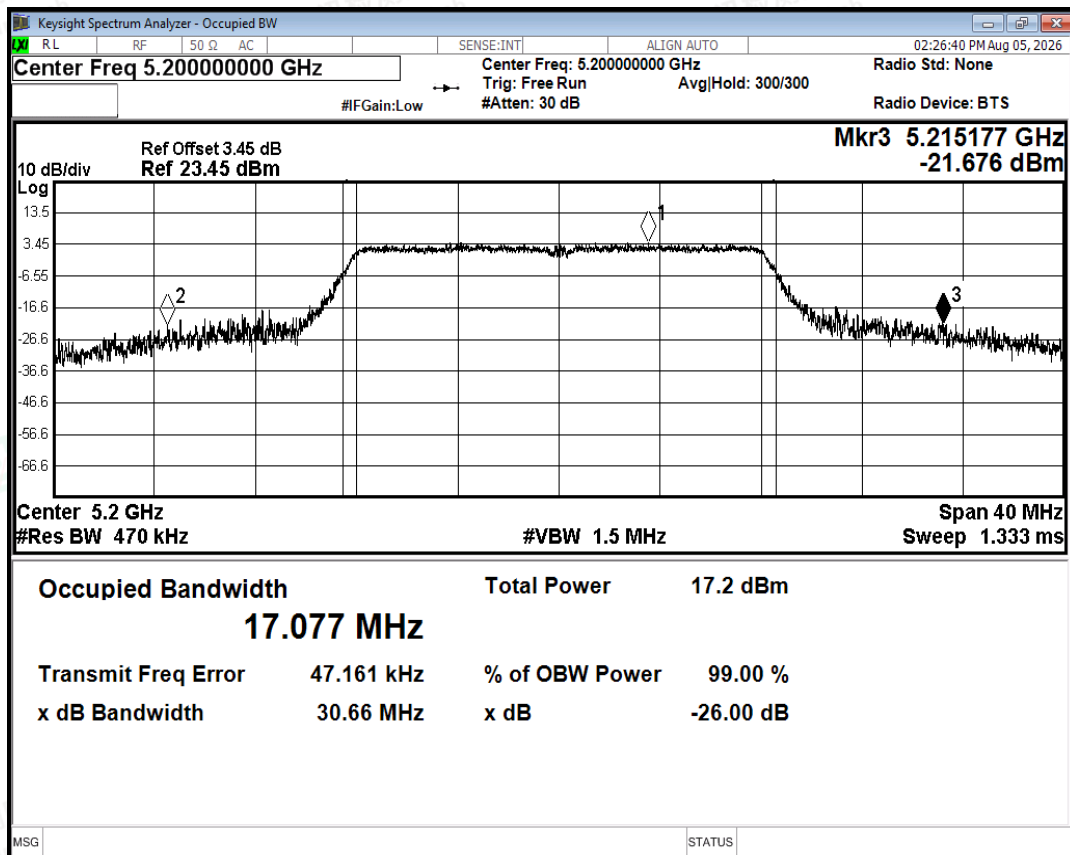


D.1 -26dB Bandwidth

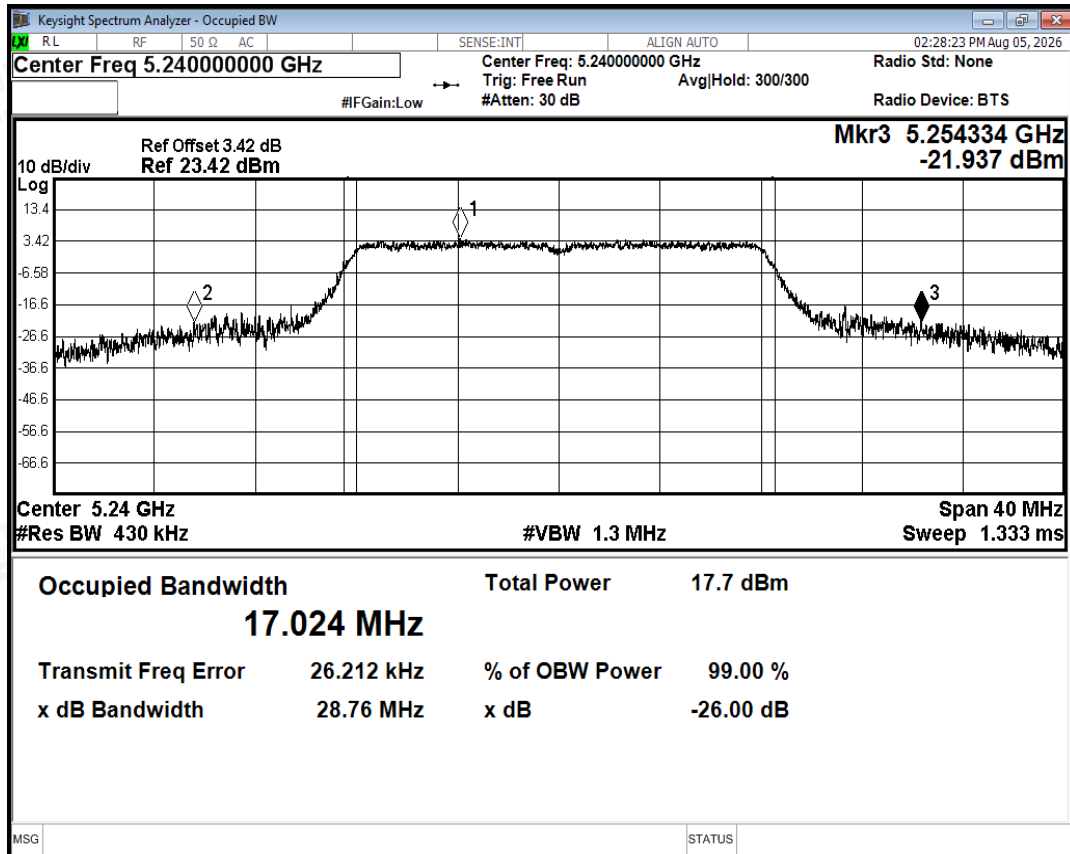
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	28.04
NVNT	a	5200	Ant1	30.66
NVNT	a	5240	Ant1	28.76
NVNT	n20	5180	Ant1	33.15
NVNT	n20	5200	Ant1	36.08
NVNT	n20	5240	Ant1	29.61
NVNT	n40	5190	Ant1	49.05
NVNT	n40	5230	Ant1	48.06
NVNT	ac20	5180	Ant1	32.29
NVNT	ac20	5200	Ant1	31.94
NVNT	ac20	5240	Ant1	33.97
NVNT	ac40	5190	Ant1	47.86
NVNT	ac40	5230	Ant1	44.21
NVNT	ac80	5210	Ant1	89.21
NVNT	ac160	5250	Ant1	161.7



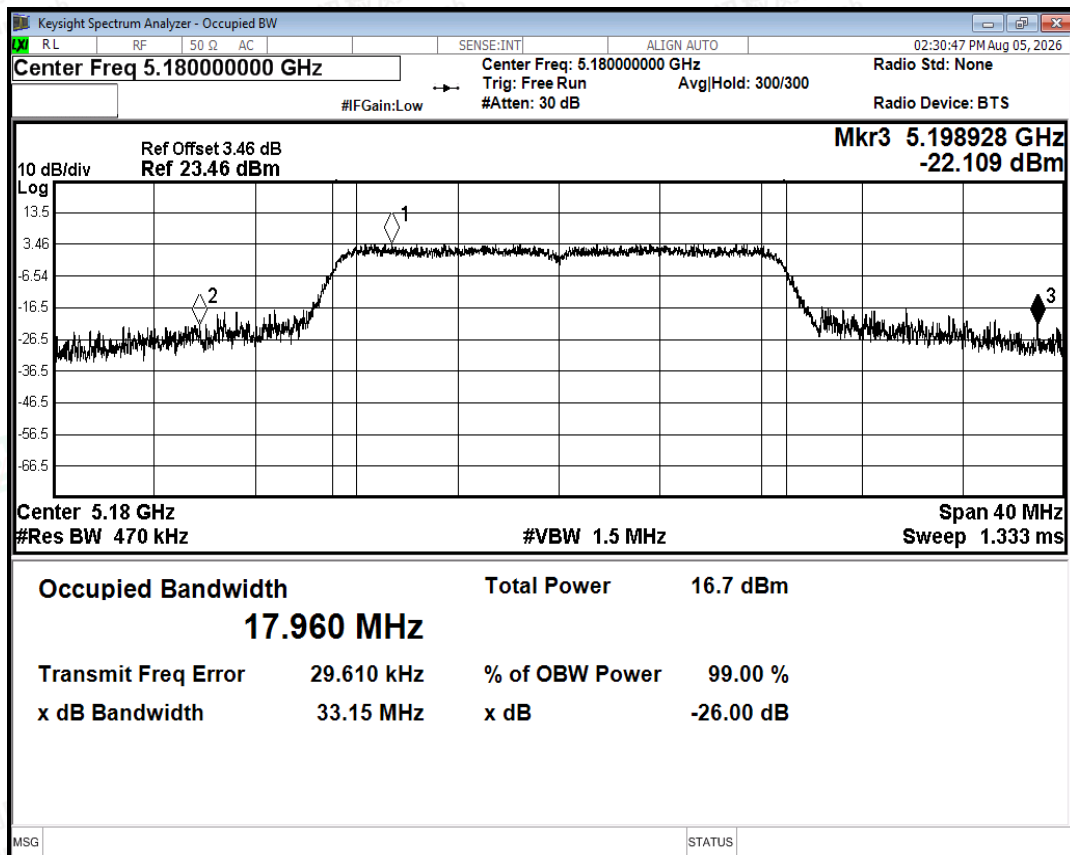
-26dB Bandwidth NVNT a 5180MHz Ant1



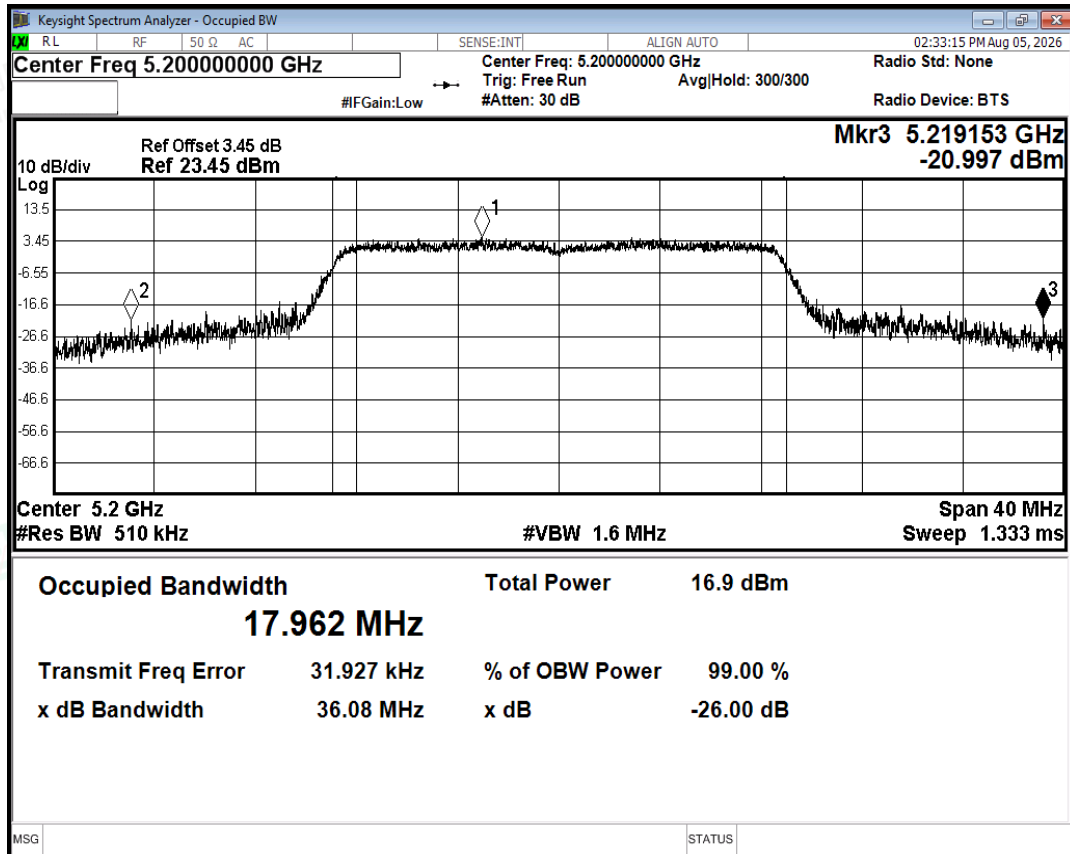
-26dB Bandwidth NVNT a 5200MHz Ant1



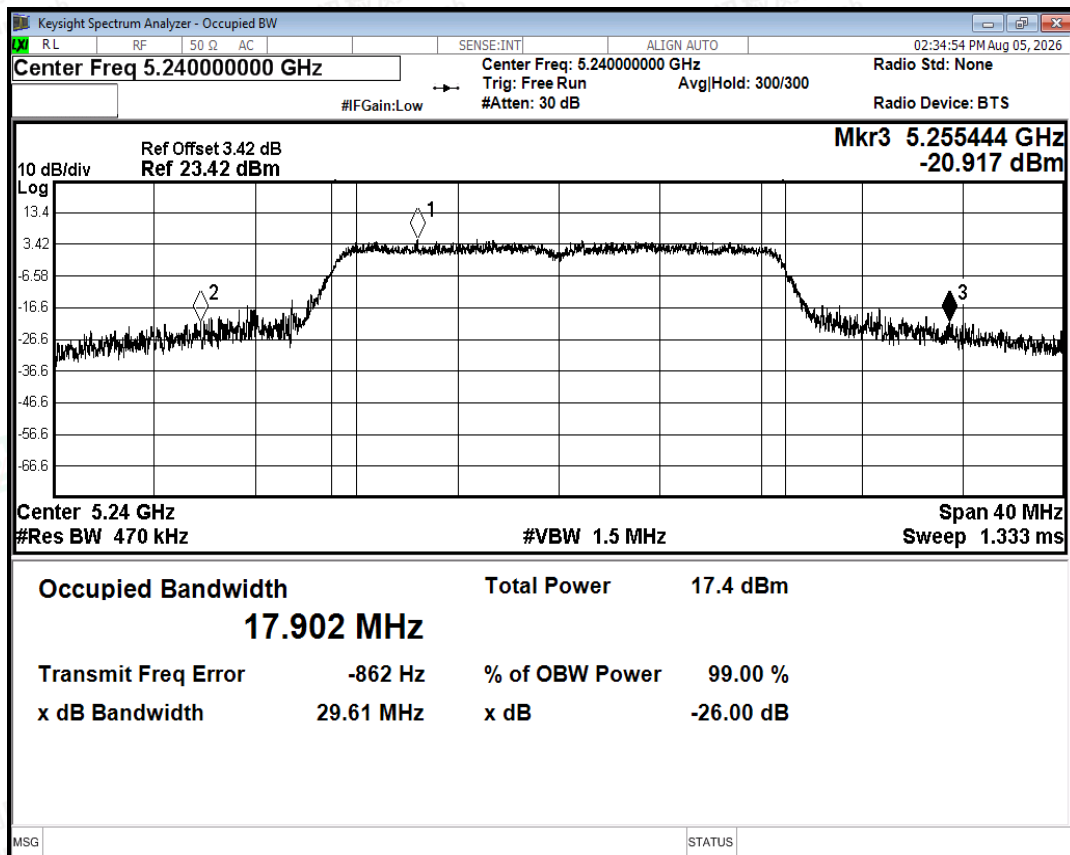
-26dB Bandwidth NVNT a 5240MHz Ant1



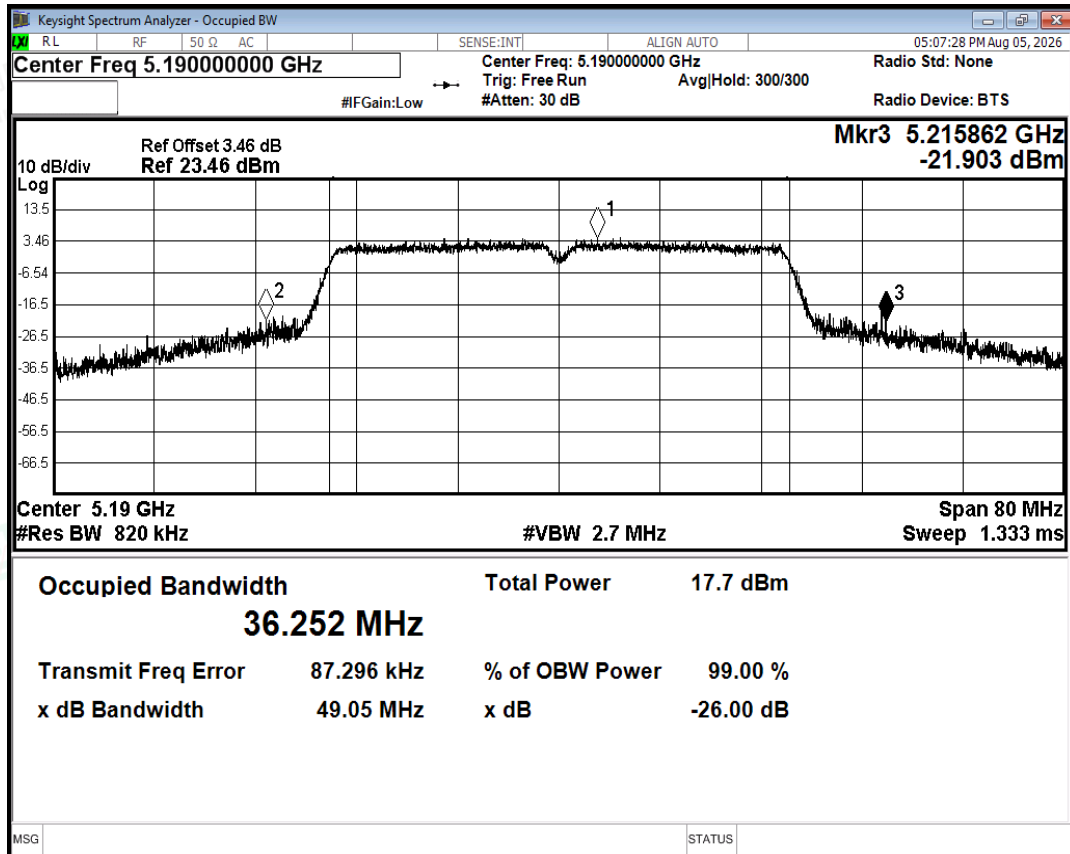
-26dB Bandwidth NVNT n20 5180MHz Ant1



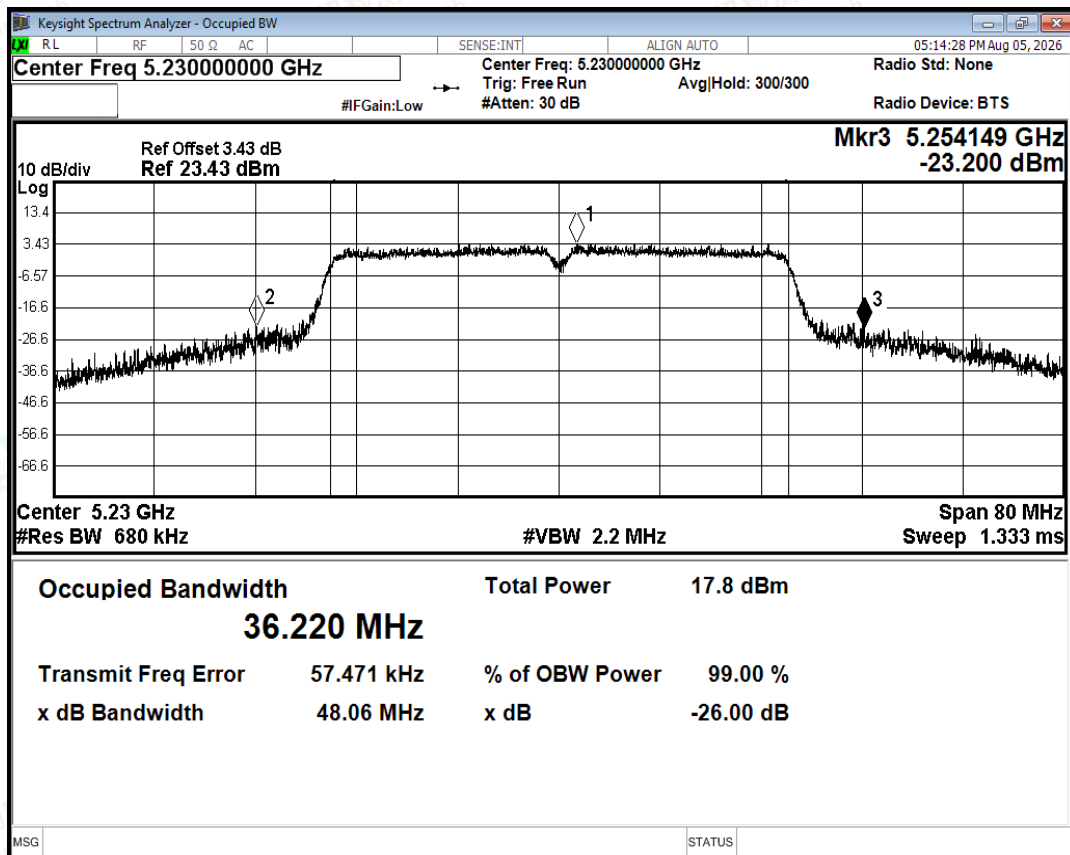
-26dB Bandwidth NVNT n20 5200MHz Ant1



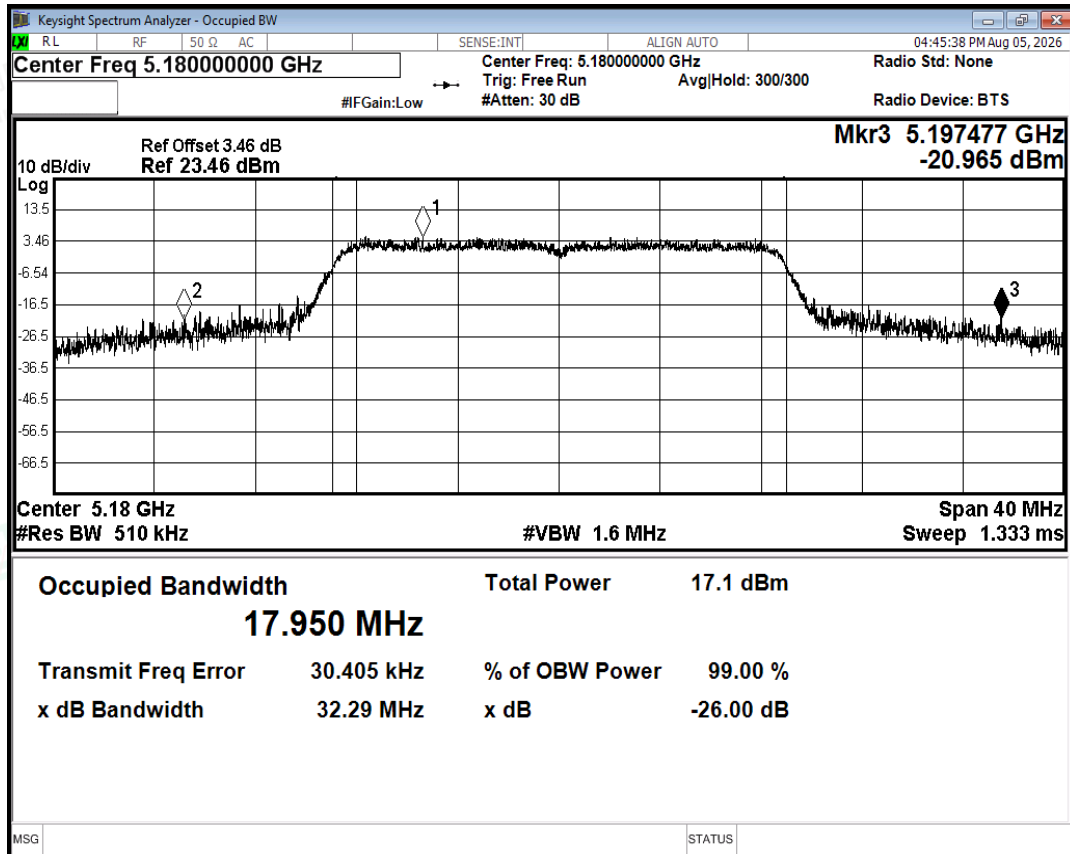
-26dB Bandwidth NVNT n20 5240MHz Ant1



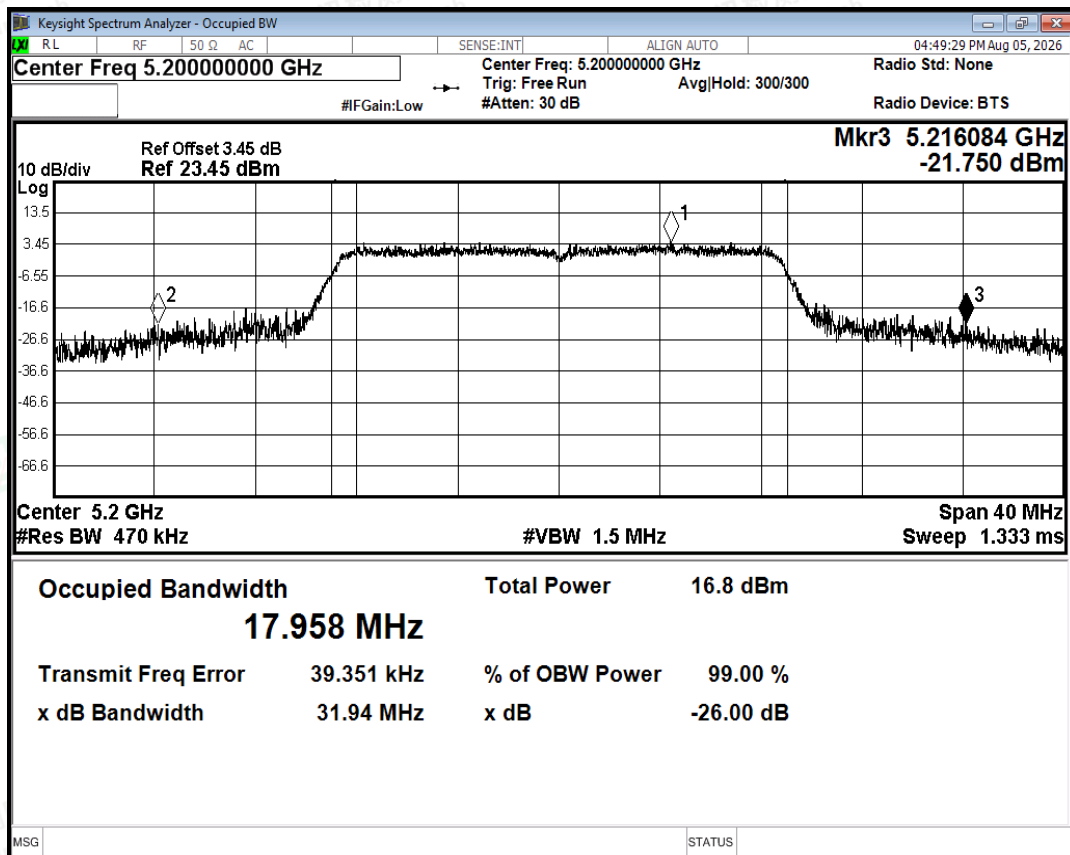
-26dB Bandwidth NVNT n40 5190MHz Ant1



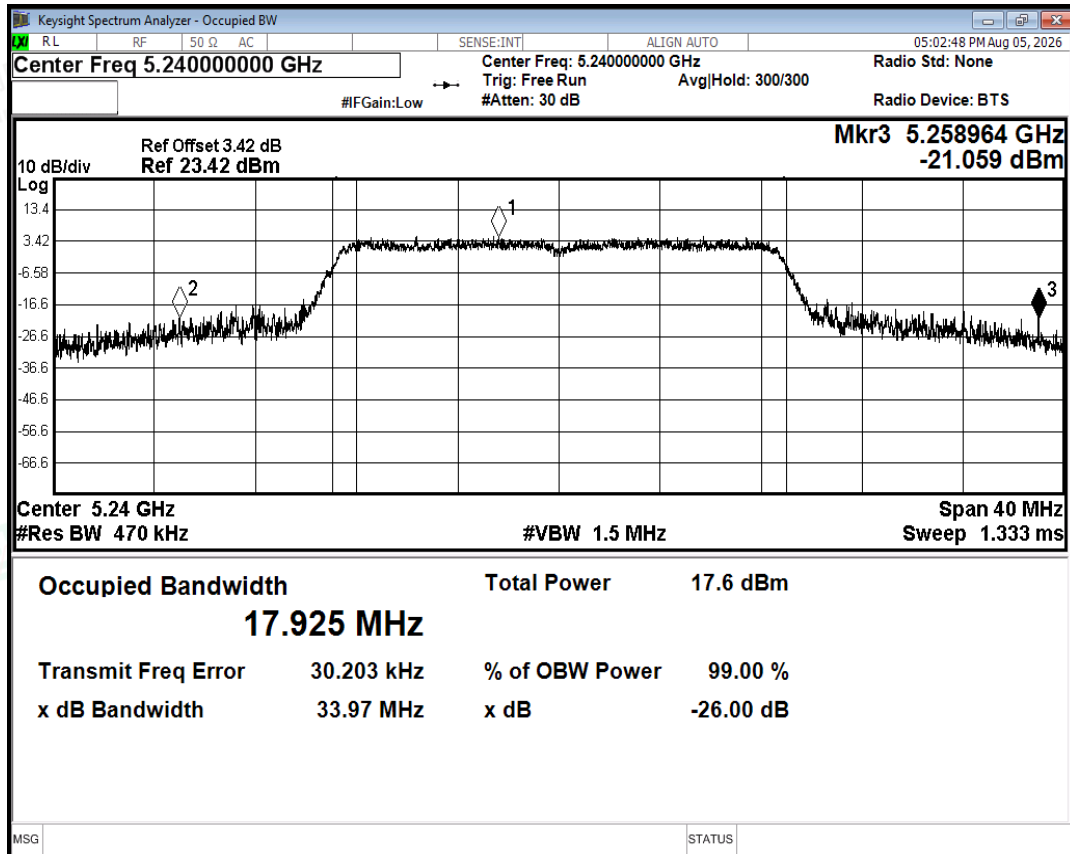
-26dB Bandwidth NVNT n40 5230MHz Ant1



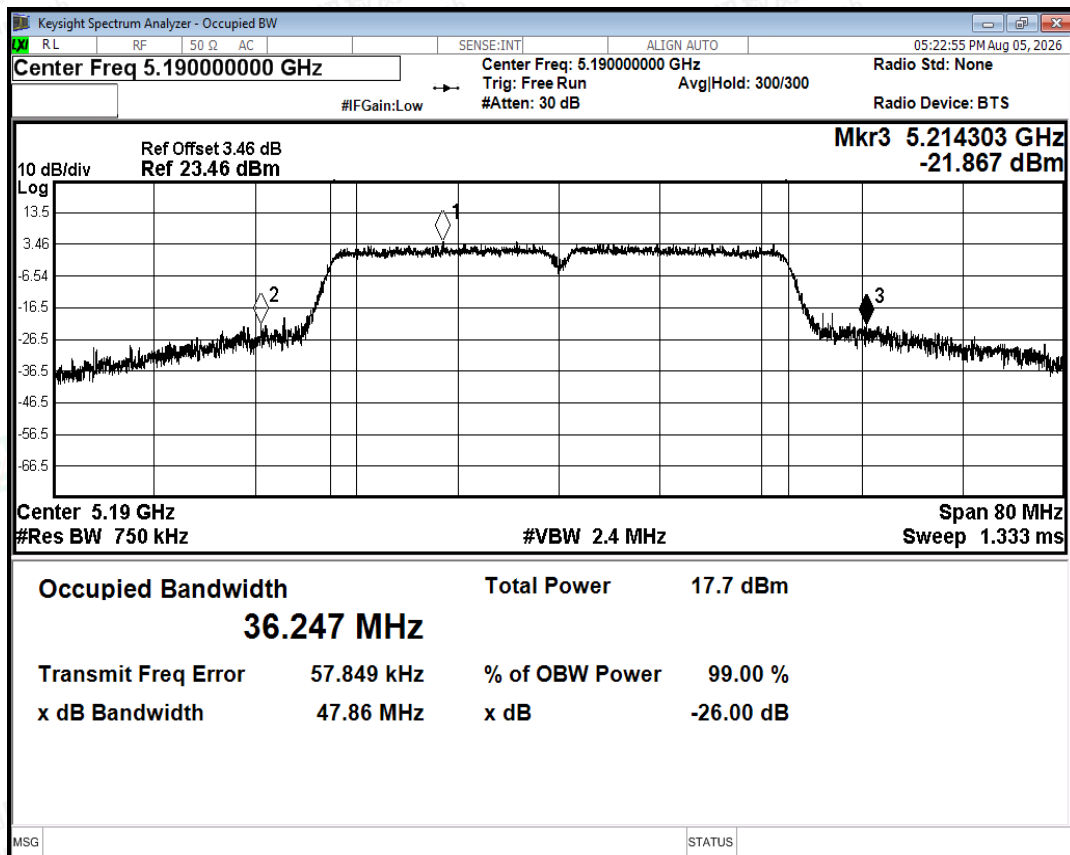
-26dB Bandwidth NVNT ac20 5180MHz Ant1



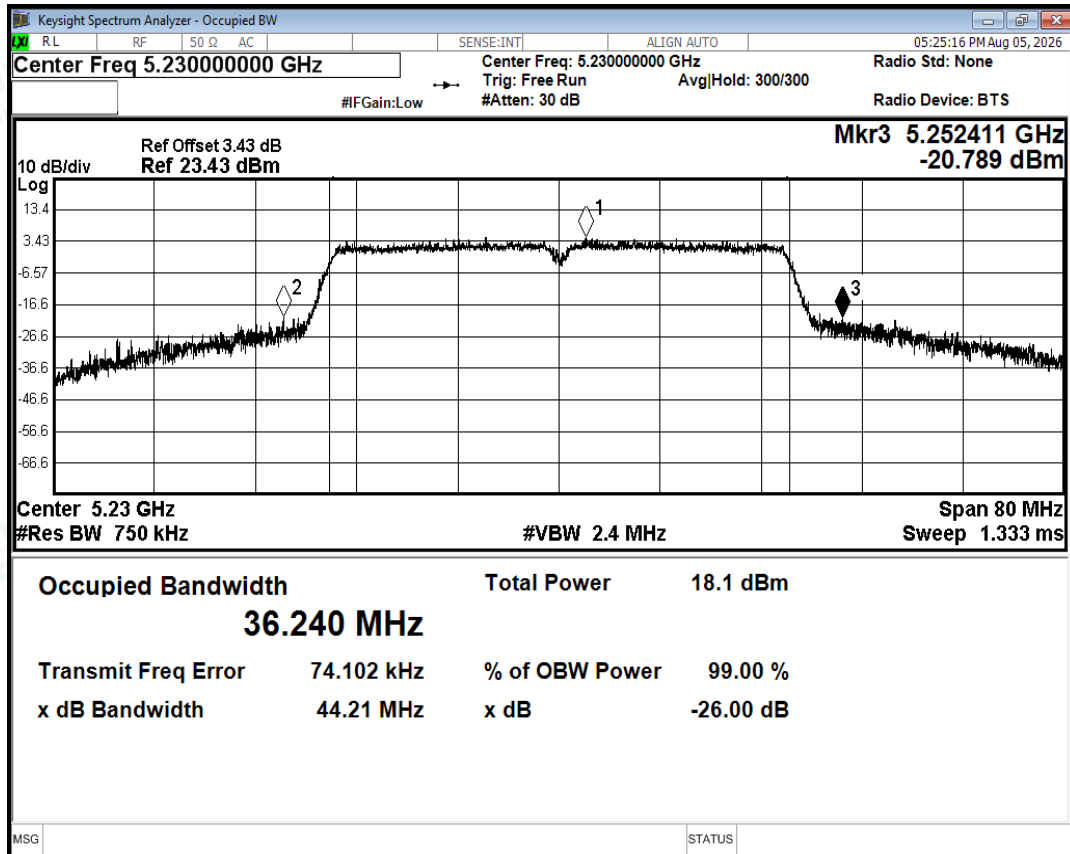
-26dB Bandwidth NVNT ac20 5200MHz Ant1



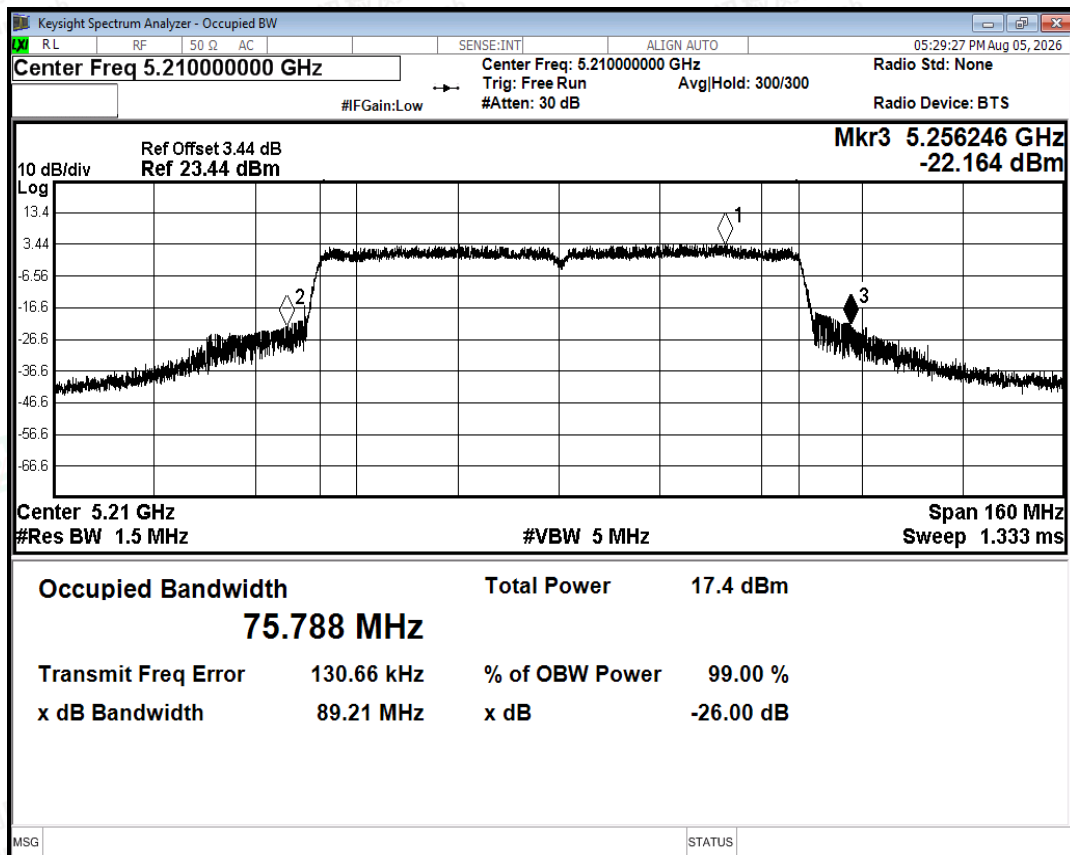
-26dB Bandwidth NVNT ac20 5240MHz Ant1



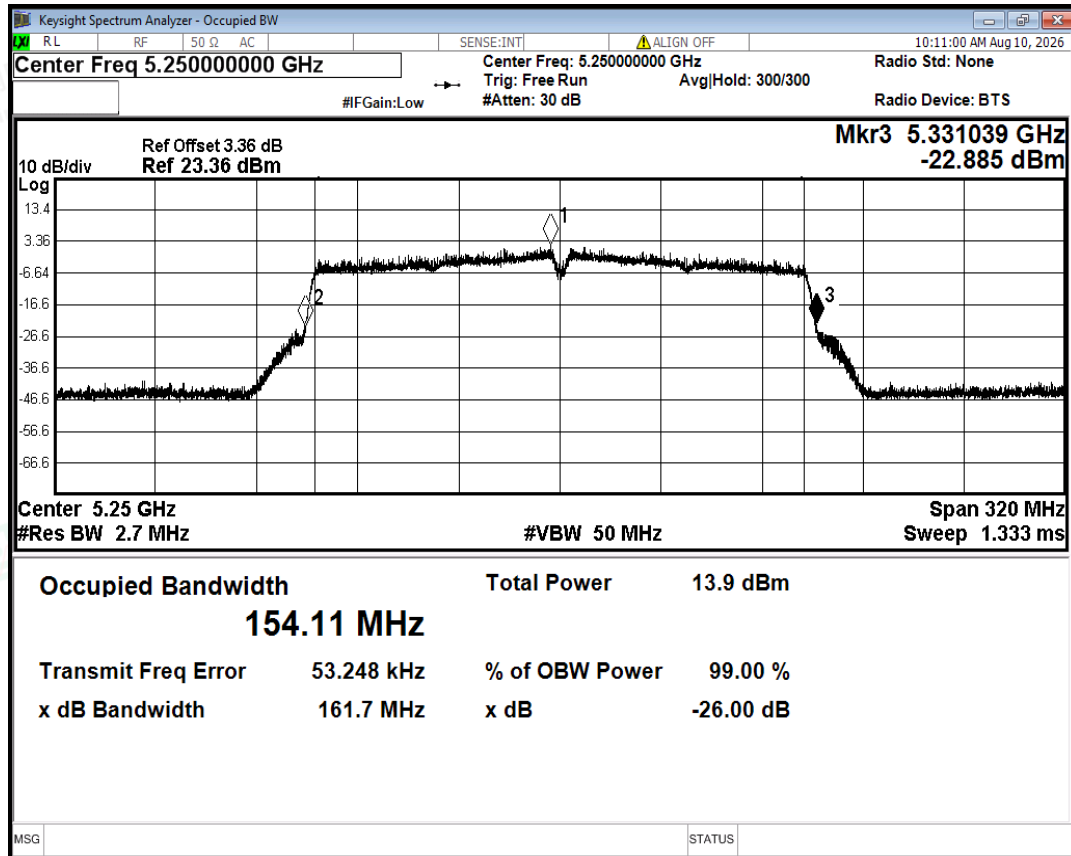
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac160 5250MHz Ant1



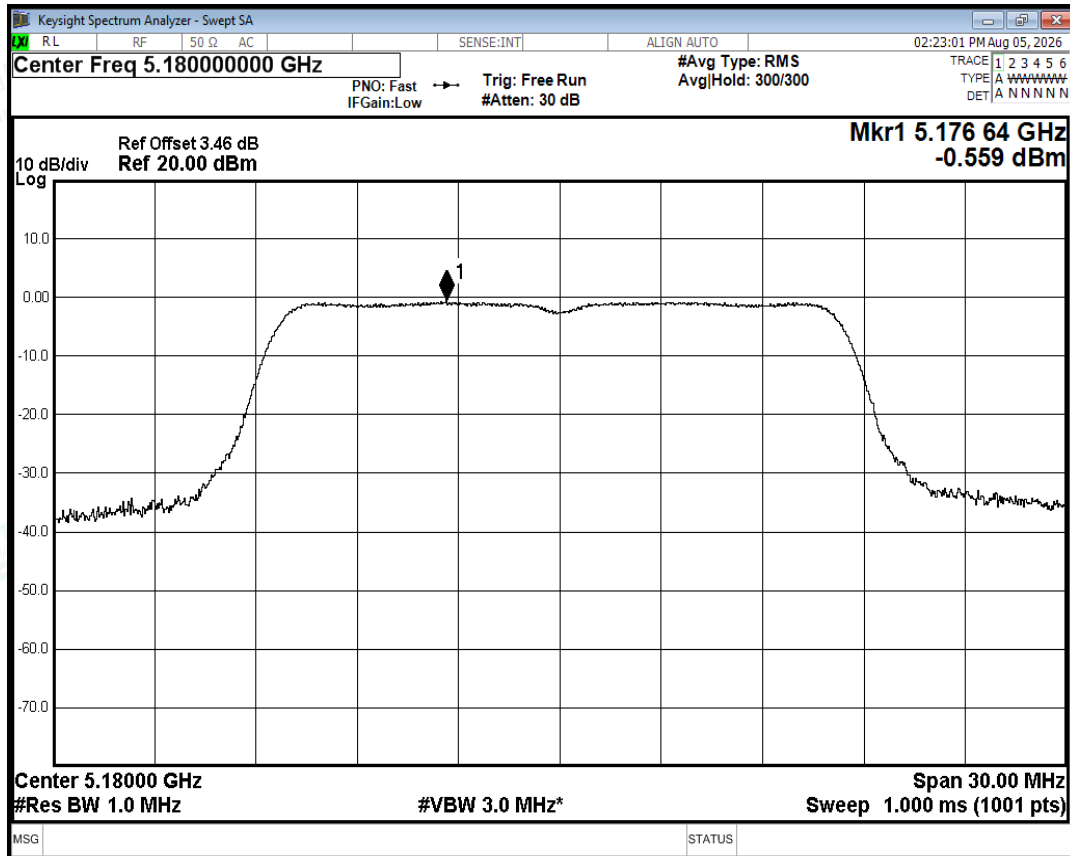
D.2 Maximum Conducted Output Power

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	10.63	0.18	10.81	0.01205	24	Pass
NVNT	a	5200	Ant1	10.84	0.18	11.02	0.01265	24	Pass
NVNT	a	5240	Ant1	11.36	0.18	11.54	0.01426	24	Pass
NVNT	n20	5180	Ant1	9.97	0.22	10.19	0.01045	24	Pass
NVNT	n20	5200	Ant1	10.1	0.21	10.31	0.01074	24	Pass
NVNT	n20	5240	Ant1	10.65	0.22	10.87	0.01222	24	Pass
NVNT	n40	5190	Ant1	10.24	0.42	10.66	0.01164	24	Pass
NVNT	n40	5230	Ant1	10.64	0.42	11.06	0.01276	24	Pass
NVNT	ac20	5180	Ant1	10.1	0.25	10.35	0.01084	24	Pass
NVNT	ac20	5200	Ant1	10.04	0.21	10.25	0.01059	24	Pass
NVNT	ac20	5240	Ant1	10.92	0.21	11.13	0.01297	24	Pass
NVNT	ac40	5190	Ant1	10.37	0.42	10.79	0.01199	24	Pass
NVNT	ac40	5230	Ant1	10.78	0.41	11.19	0.01315	24	Pass
NVNT	ac80	5210	Ant1	9.08	0.94	10.02	0.01005	24	Pass
NVNT	ac160 (Single contiguous 160MHz channel)	5250	Ant1	7.89	1.06	8.95	0.00785	24	Pass

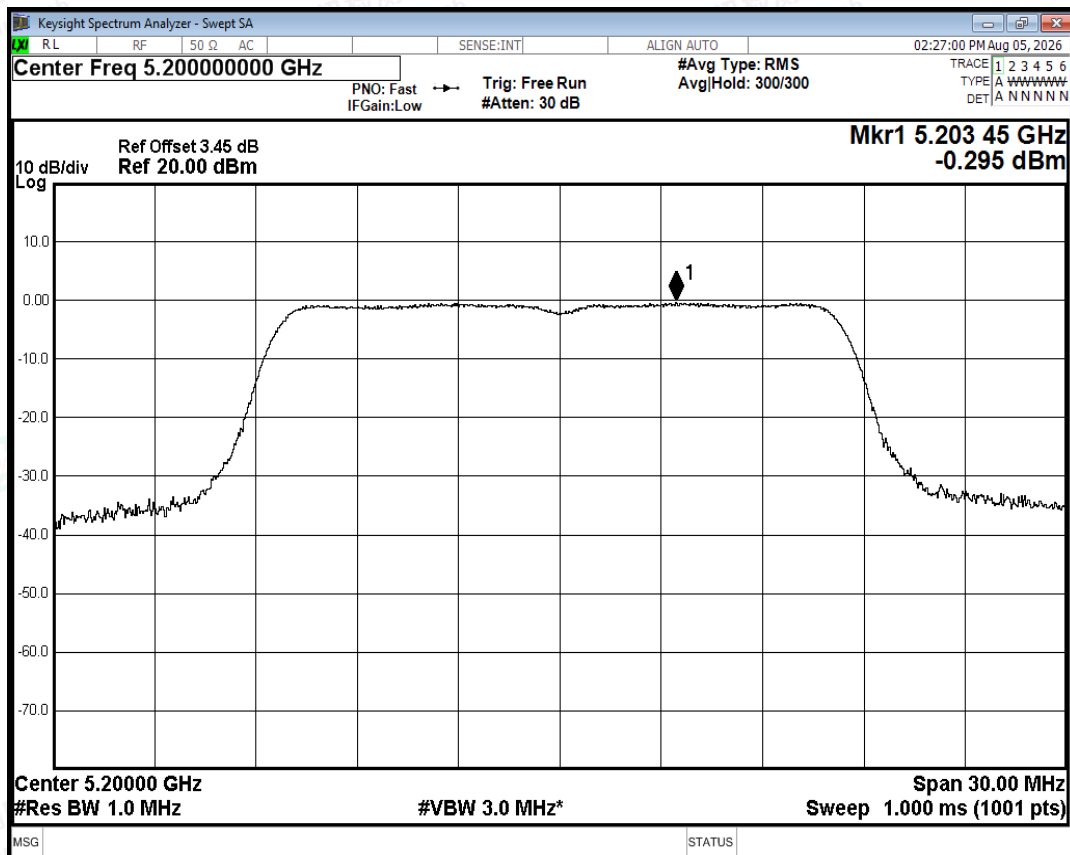


D.3 Maximum Power Spectral Density Level

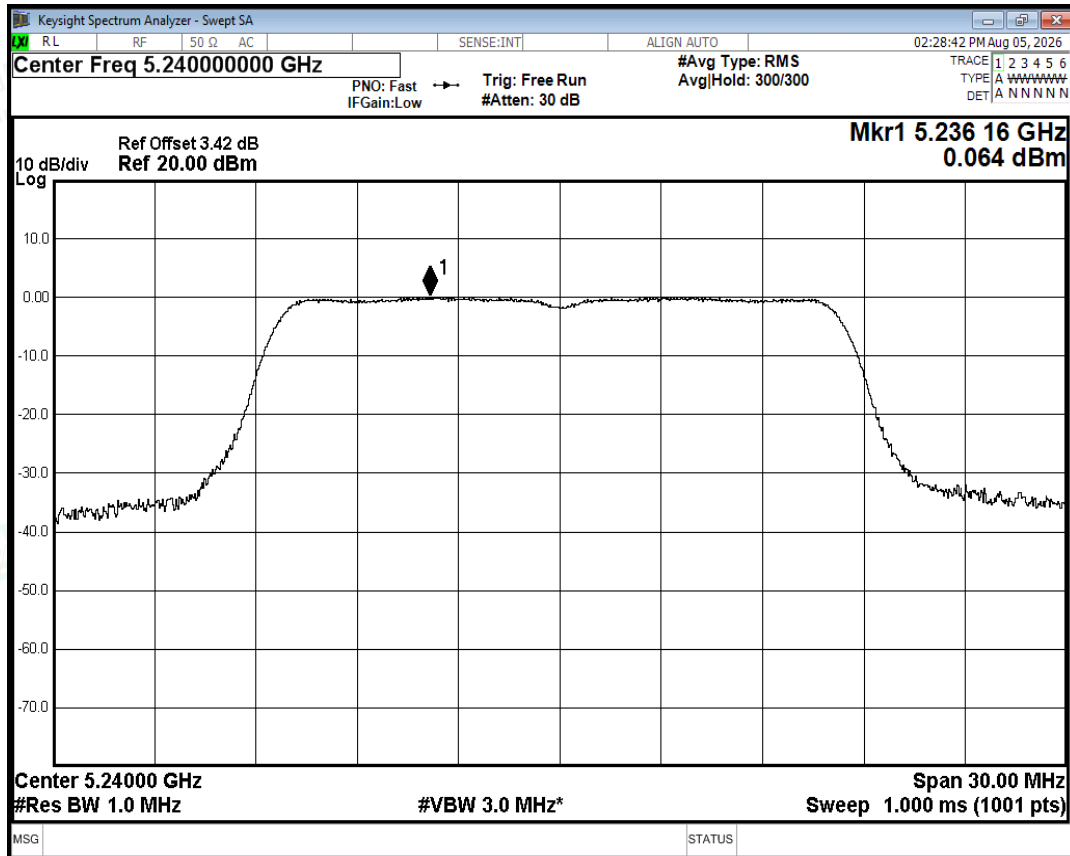
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-0.56	0.18	-0.38	11	Pass
NVNT	a	5200	Ant1	-0.3	0.18	-0.12	11	Pass
NVNT	a	5240	Ant1	0.06	0.18	0.24	11	Pass
NVNT	n20	5180	Ant1	-1.56	0.22	-1.34	11	Pass
NVNT	n20	5200	Ant1	-1.23	0.21	-1.02	11	Pass
NVNT	n20	5240	Ant1	-0.93	0.22	-0.71	11	Pass
NVNT	n40	5190	Ant1	-4.29	0.42	-3.87	11	Pass
NVNT	n40	5230	Ant1	-3.7	0.42	-3.28	11	Pass
NVNT	ac20	5180	Ant1	-1.42	0.25	-1.17	11	Pass
NVNT	ac20	5200	Ant1	-1.47	0.21	-1.26	11	Pass
NVNT	ac20	5240	Ant1	-0.42	0.21	-0.21	11	Pass
NVNT	ac40	5190	Ant1	-4.11	0.42	-3.69	11	Pass
NVNT	ac40	5230	Ant1	-3.46	0.41	-3.05	11	Pass
NVNT	ac80	5210	Ant1	-8.45	0.94	-7.51	11	Pass
NVNT	ac160 (Single contiguous 160MHz channel)	5250	Ant1	-12.53	1.06	-11.47	11	Pass



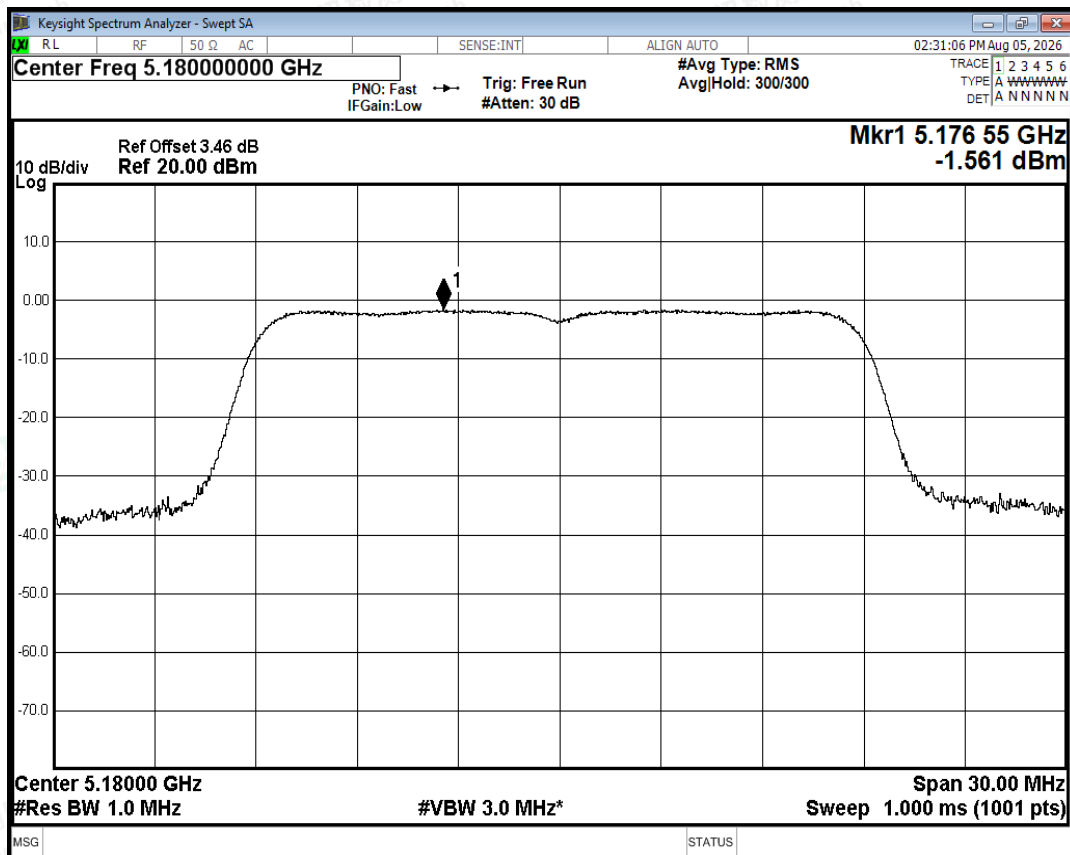
PSD NVNT a 5180MHz Ant1



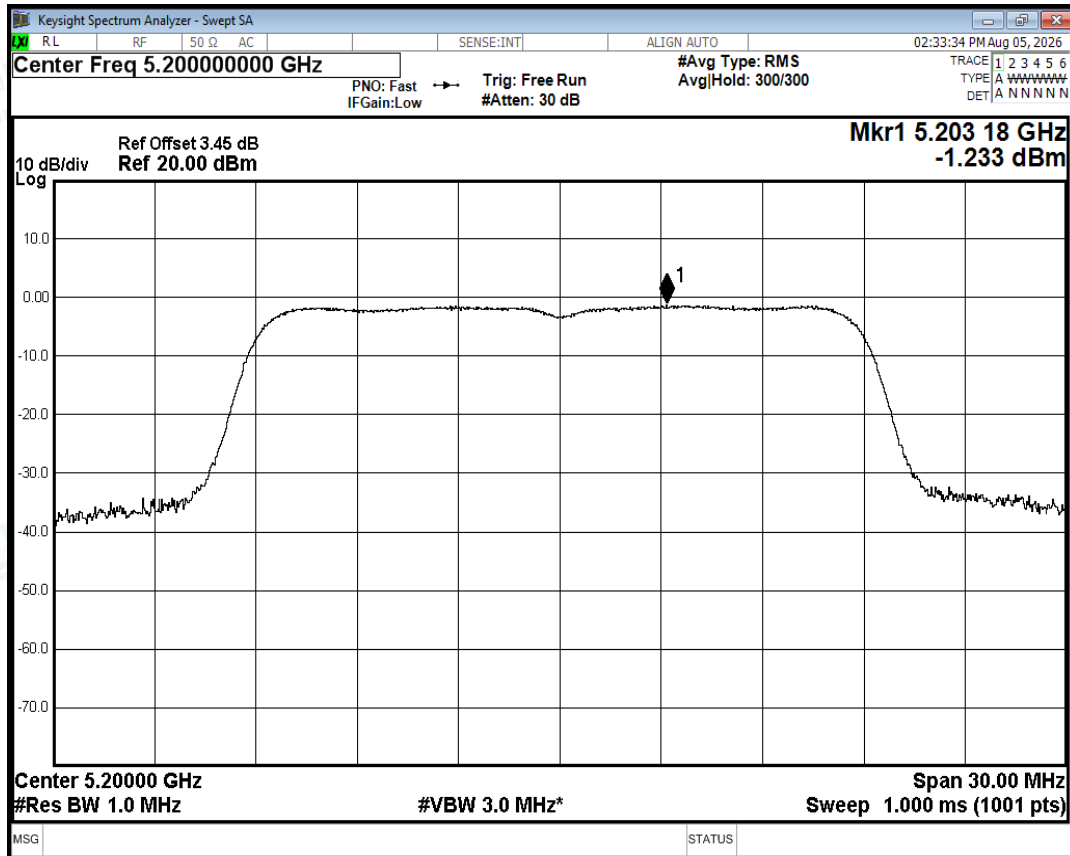
PSD NVNT a 5200MHz Ant1



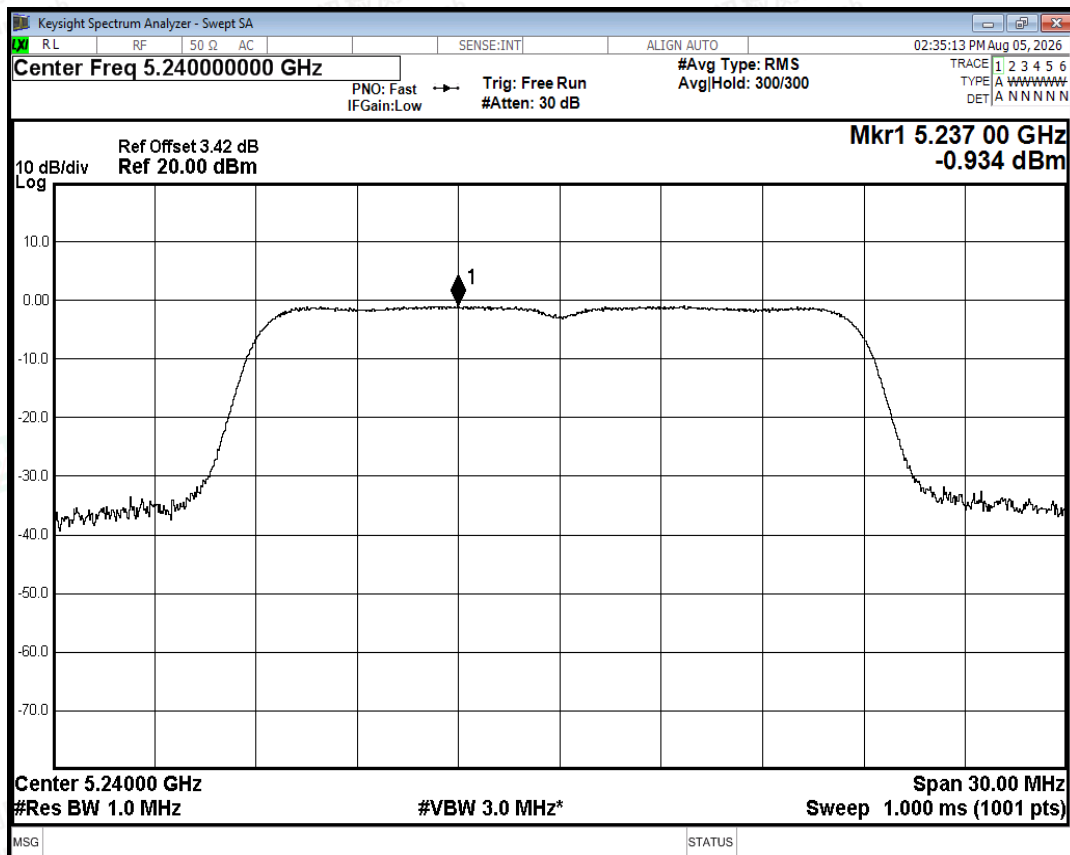
PSD NVNT a 5240MHz Ant1



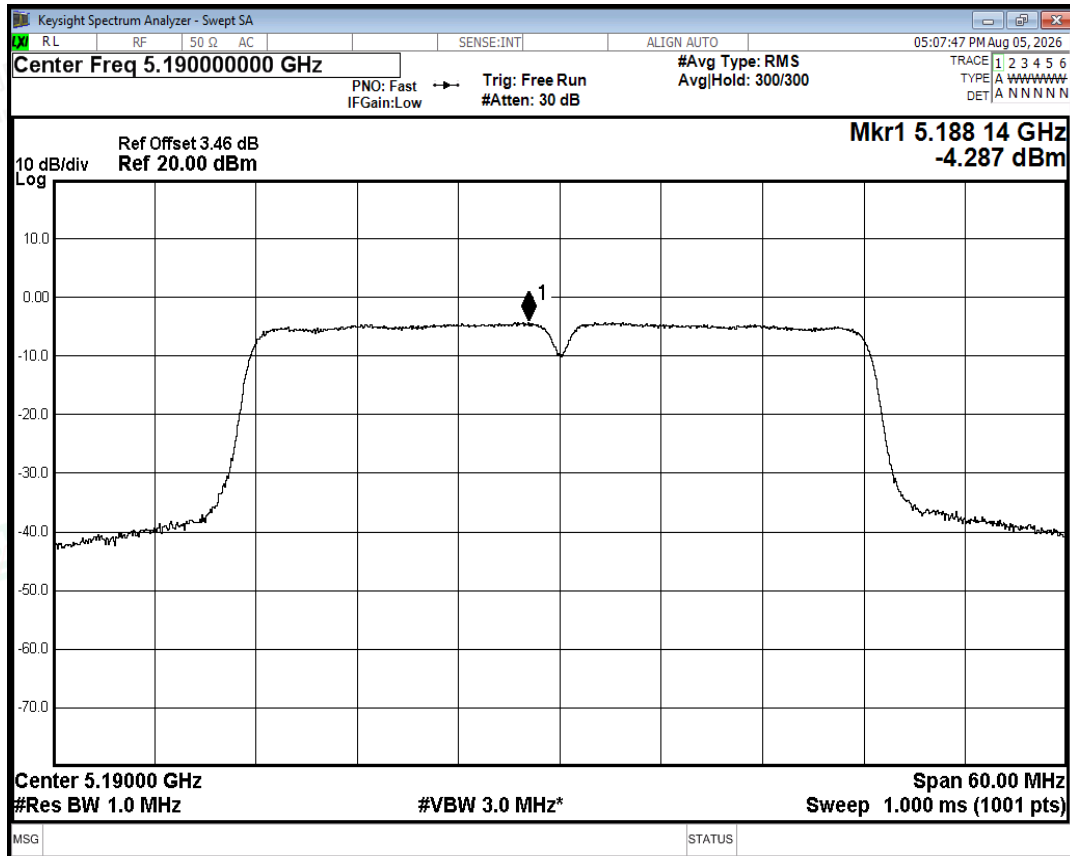
PSD NVNT n20 5180MHz Ant1



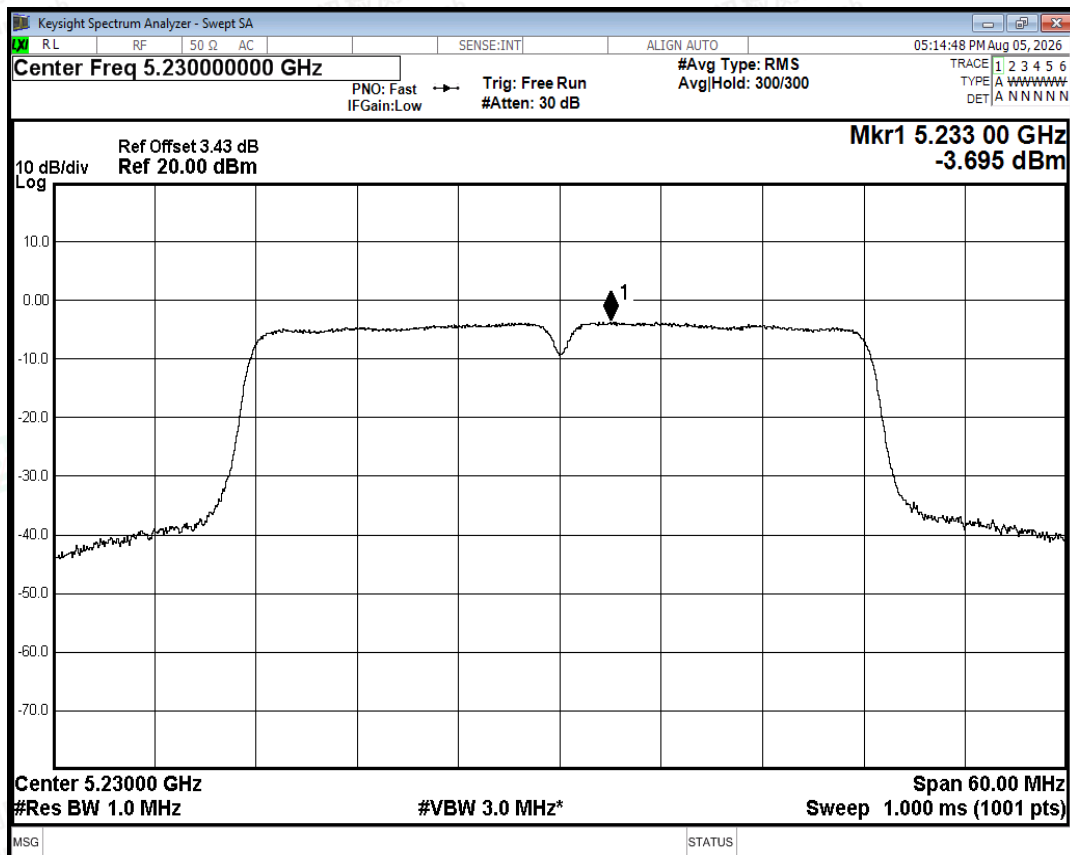
PSD NVNT n20 5200MHz Ant1



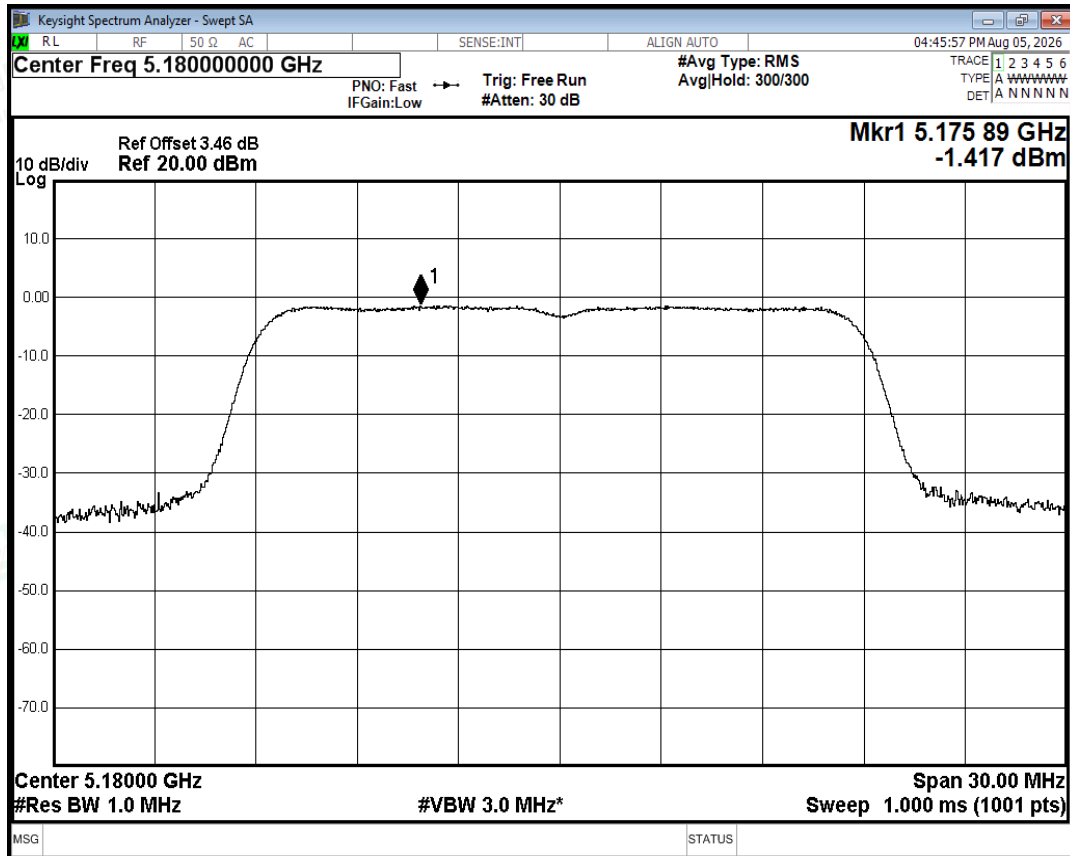
PSD NVNT n20 5240MHz Ant1



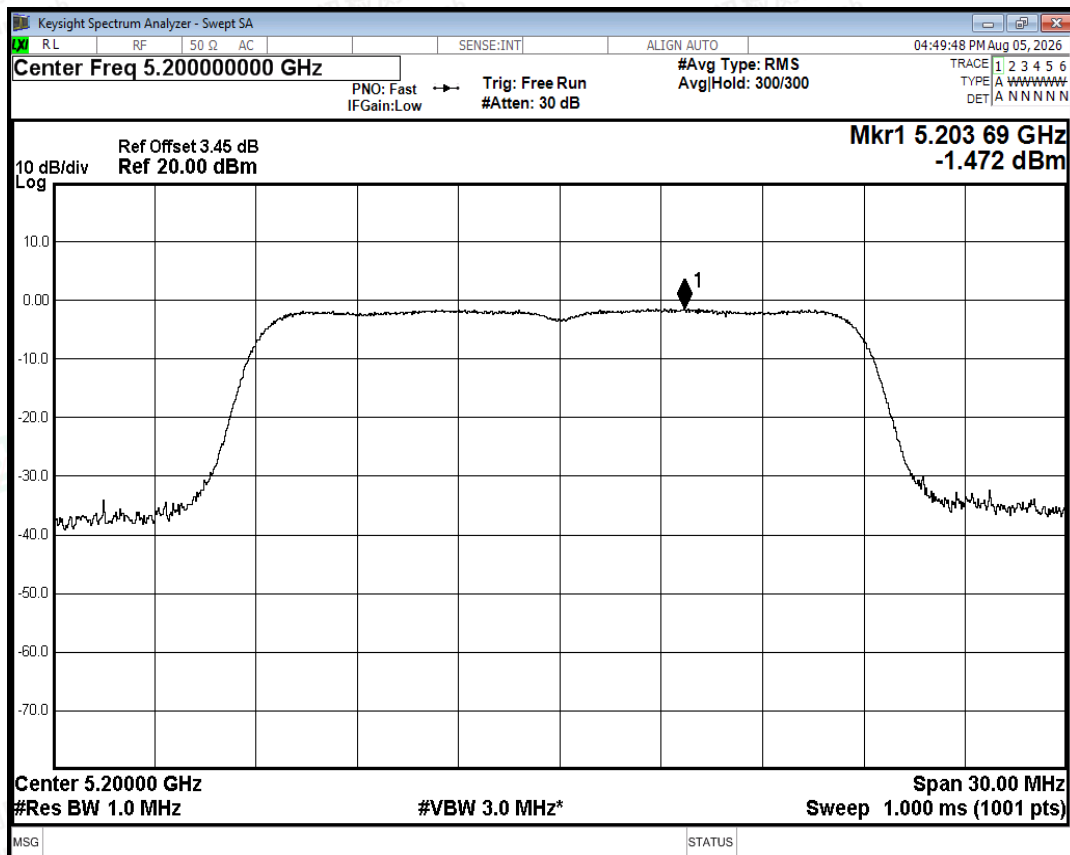
PSD NVNT n40 5190MHz Ant1



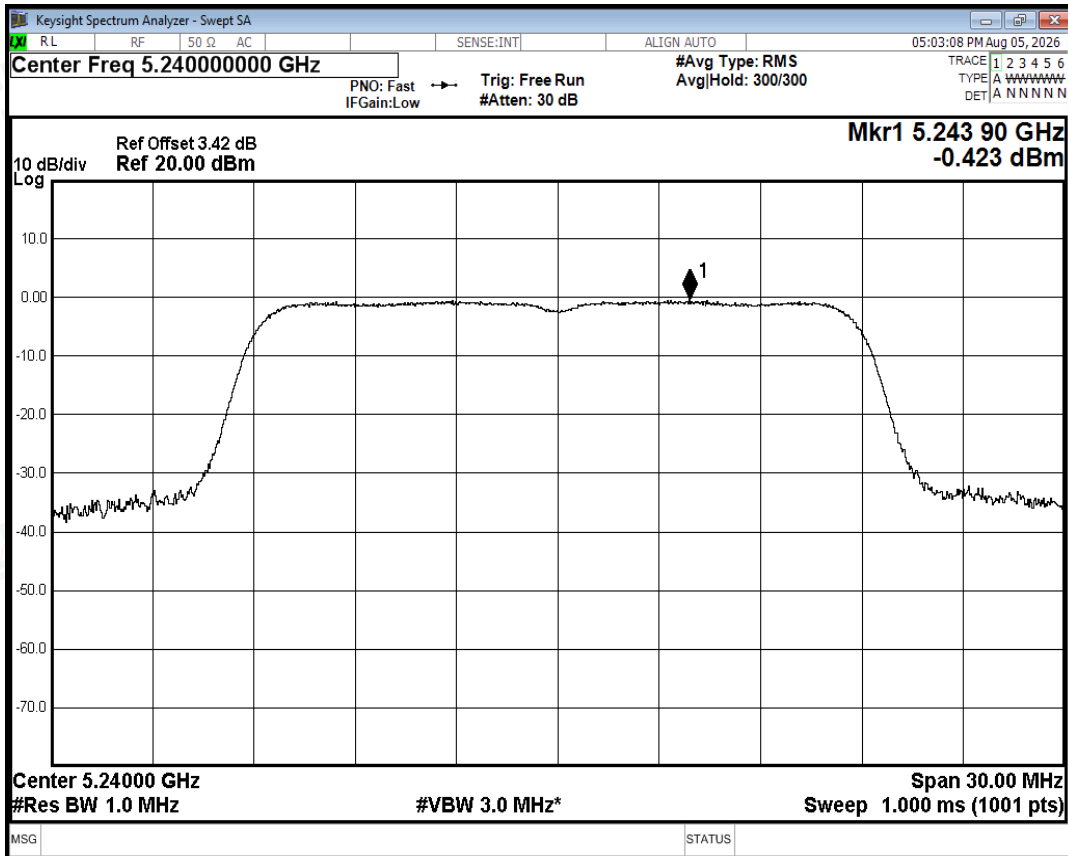
PSD NVNT n40 5230MHz Ant1



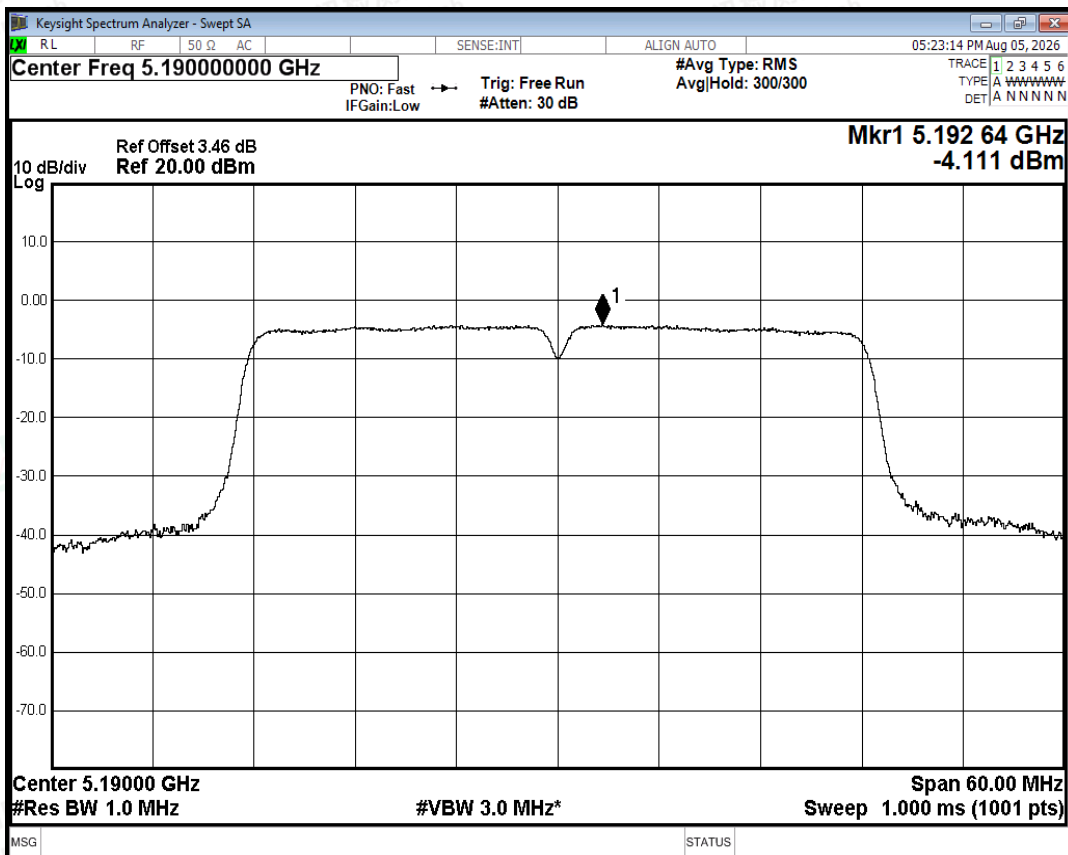
PSD NVNT ac20 5180MHz Ant1



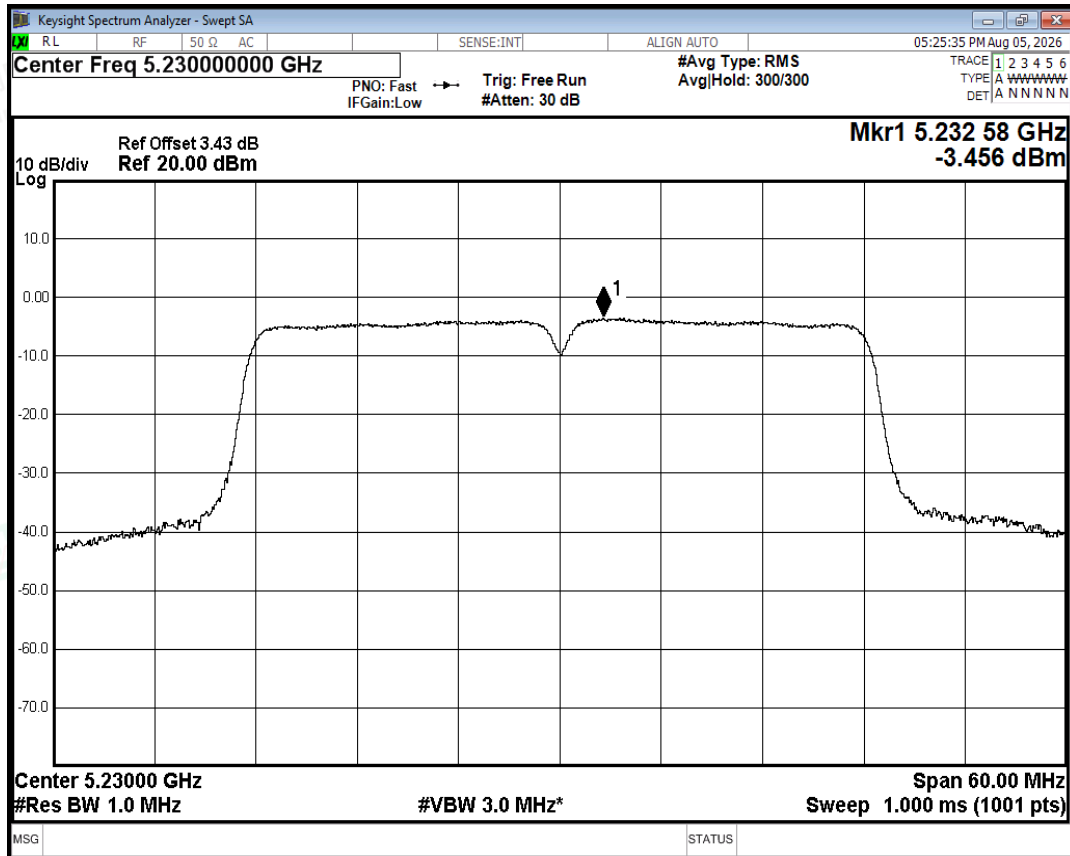
PSD NVNT ac20 5200MHz Ant1



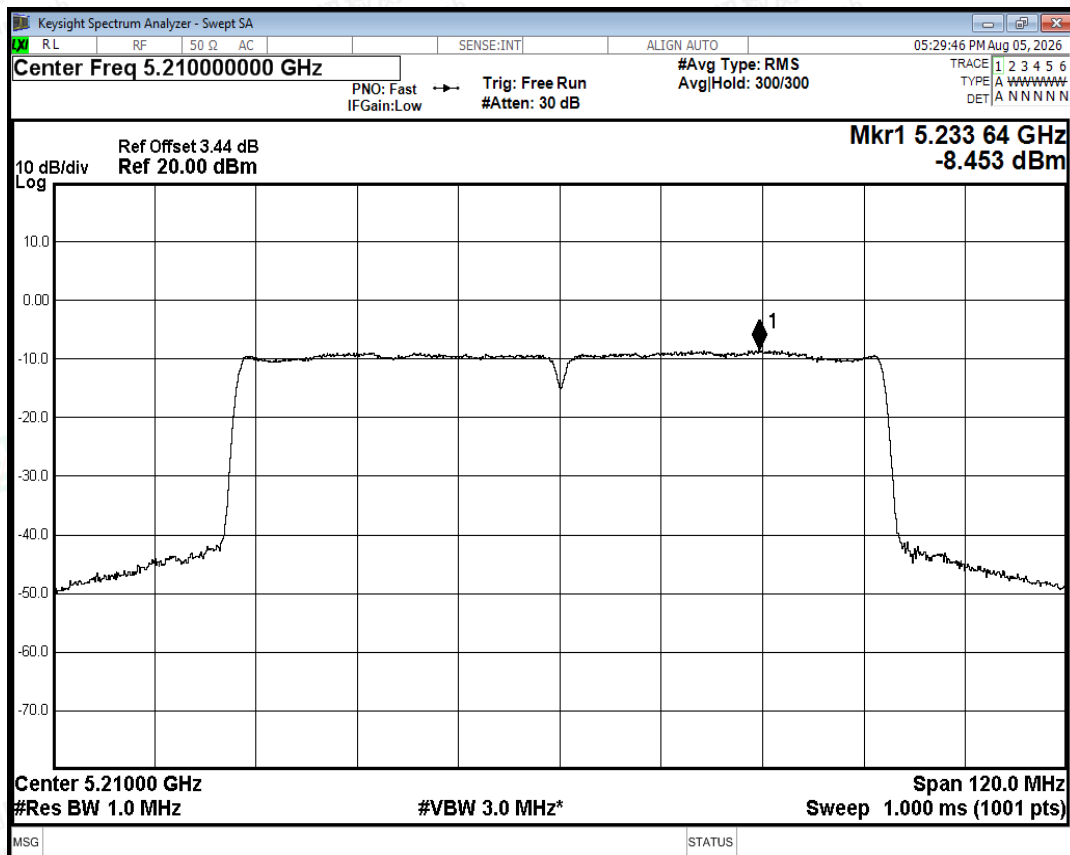
PSD NVNT ac20 5240MHz Ant1



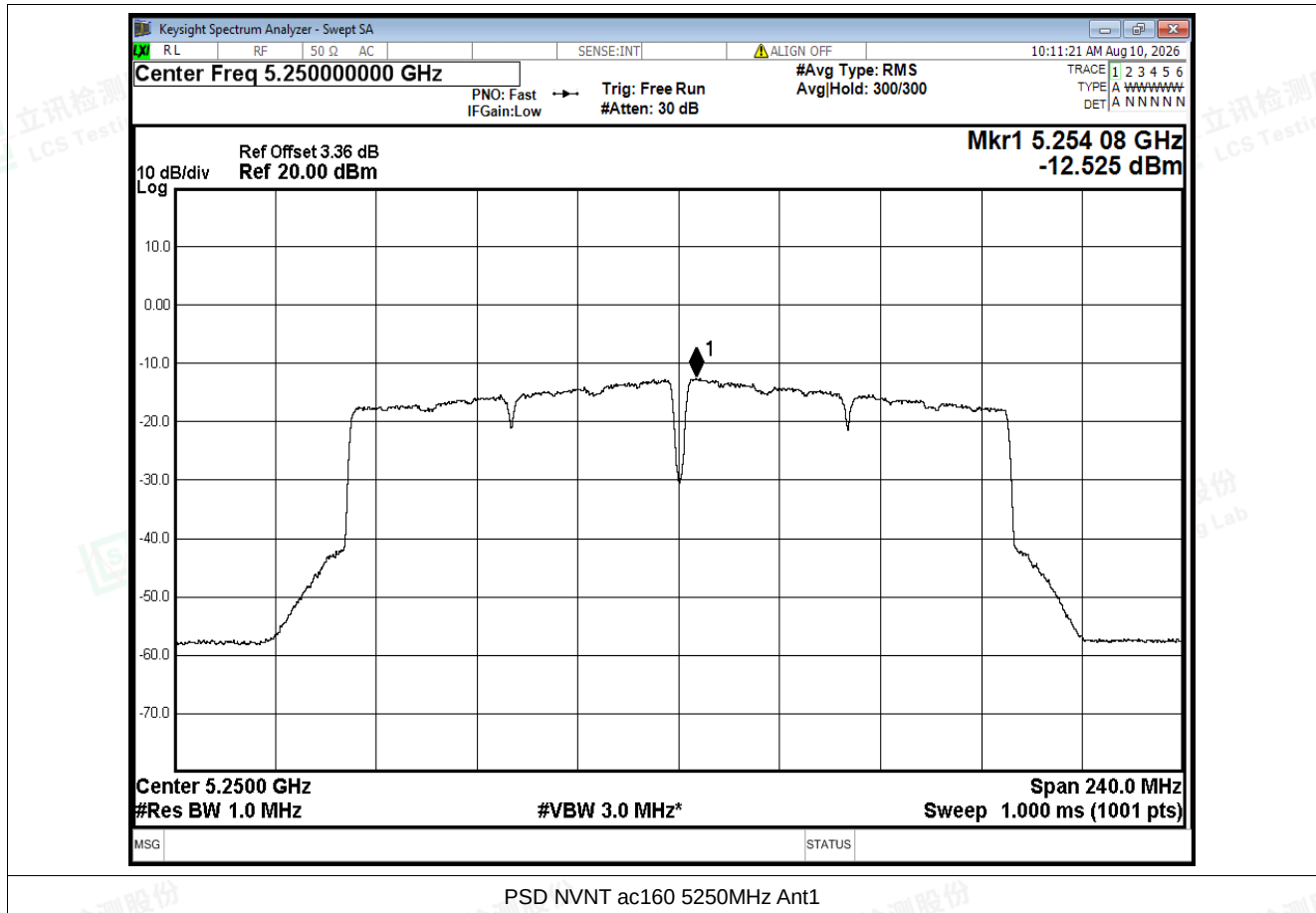
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



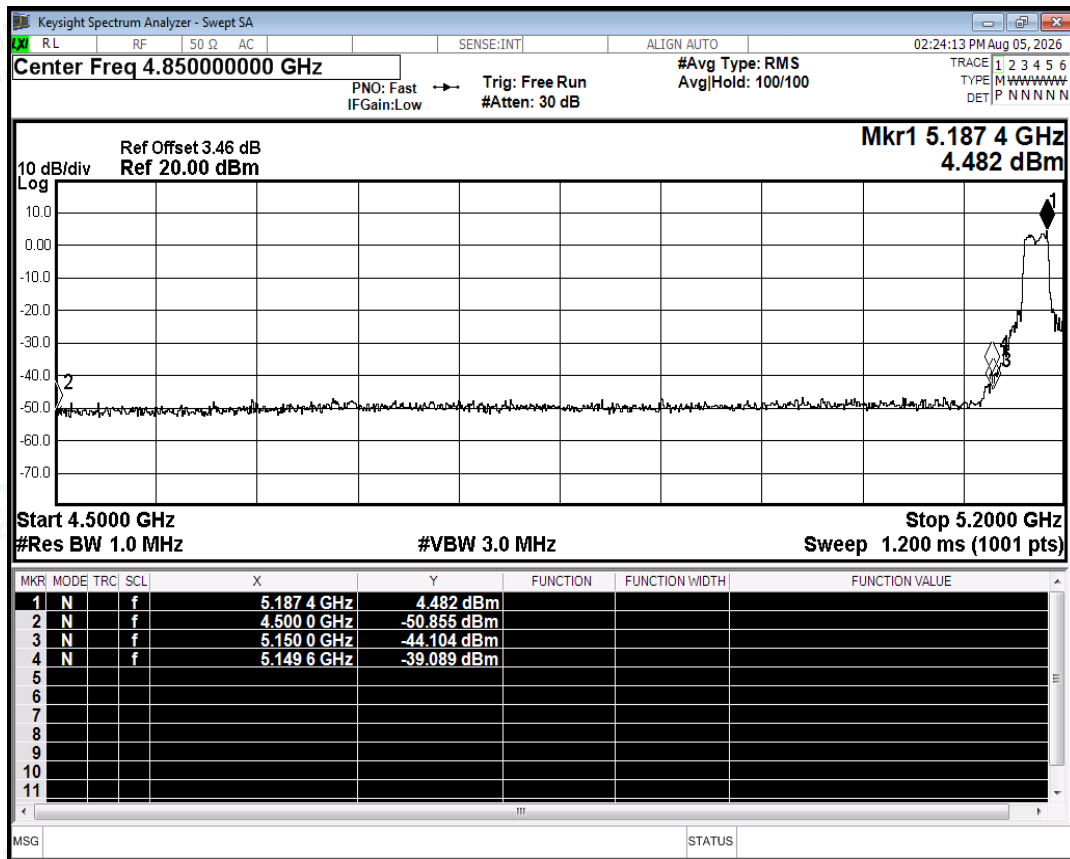


D.4 Restrict Band

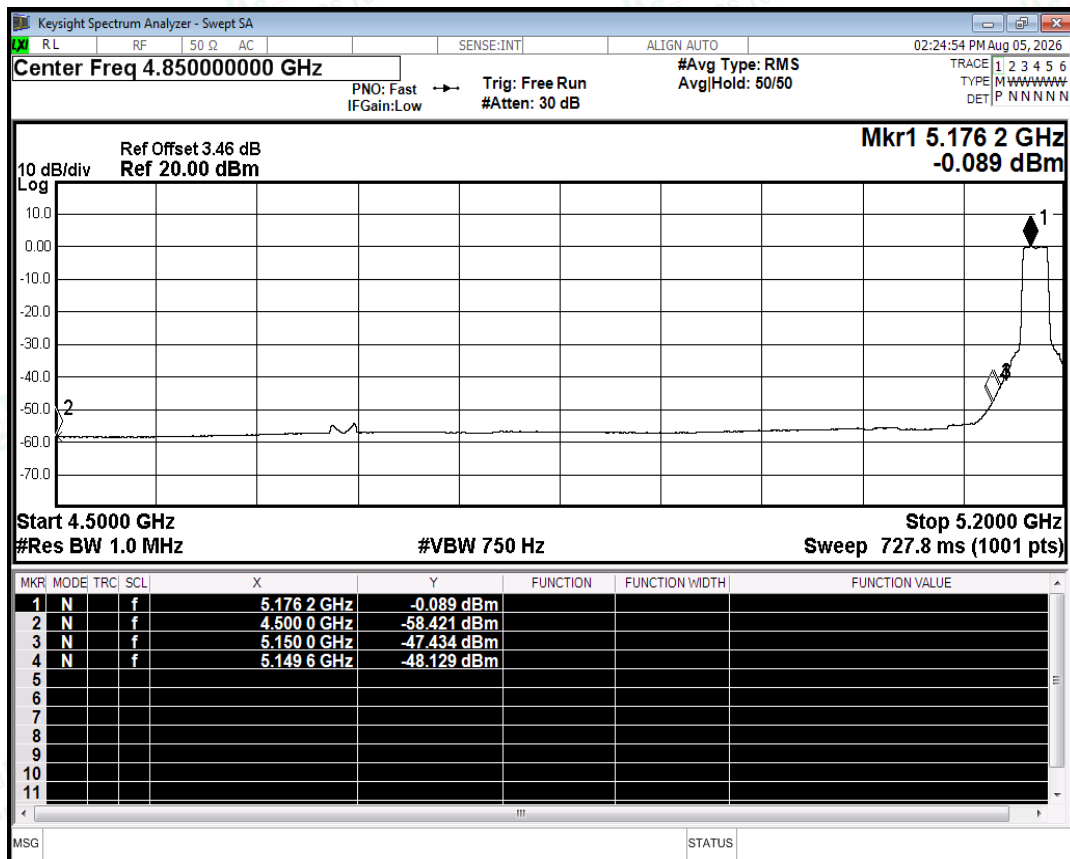
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-50.85	2	46.38	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-58.42	2	38.81	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-39.08	2	58.15	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-48.12	2	49.11	Average	54	Pass
NVNT	a	5180	Ant1	5150	-44.1	2	53.13	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-47.43	2	49.8	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.73	2	46.5	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.22	2	41.01	Average	54	Pass
NVNT	a	5240	Ant1	5425.44	-46.03	2	51.2	Peak	68.2	Pass
NVNT	a	5240	Ant1	5351.52	-56.16	2	41.07	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.59	2	47.64	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-56.88	2	40.35	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.5	2	46.73	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.35	2	38.88	Average	54	Pass
NVNT	n20	5180	Ant1	5146.1	-41.85	2	55.38	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-47.37	2	49.86	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-41.22	2	56.01	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.95	2	50.28	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.29	2	47.94	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.52	2	40.71	Average	54	Pass
NVNT	n20	5240	Ant1	5435.28	-47.25	2	49.98	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350.8	-56.04	2	41.19	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.62	2	47.61	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.67	2	40.56	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-61.37	2	35.86	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-68.13	2	29.1	Average	54	Pass
NVNT	n40	5190	Ant1	5146.05	-39.2	2	58.03	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-45.74	2	51.49	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-41.29	2	55.94	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-45.12	2	52.11	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.89	2	47.34	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.52	2	40.71	Average	54	Pass
NVNT	n40	5230	Ant1	5436.78	-46.46	2	50.77	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5445.96	-55.93	2	41.3	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.71	2	47.52	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.5	2	40.73	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-51.68	2	45.55	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.37	2	38.86	Average	54	Pass
NVNT	ac20	5180	Ant1	5148.9	-39.49	2	57.74	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-47.17	2	50.06	Average	54	Pass



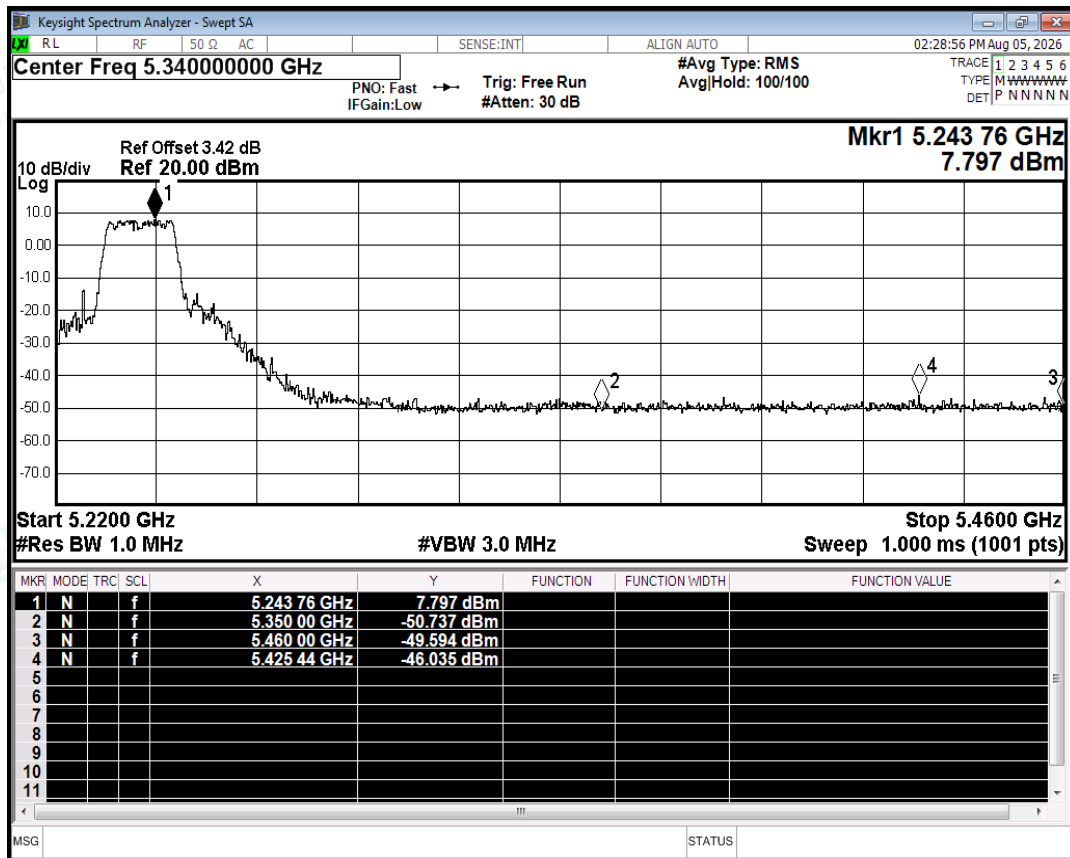
NVNT	ac20	5180	Ant1	5150	-44.41	2	52.82	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-46.84	2	50.39	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.37	2	46.86	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.47	2	40.76	Average	54	Pass
NVNT	ac20	5240	Ant1	5423.04	-46.94	2	50.29	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350.32	-56.28	2	40.95	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.46	2	47.77	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.71	2	40.52	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-51.04	2	46.19	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.28	2	38.95	Average	54	Pass
NVNT	ac40	5190	Ant1	5146.05	-39.75	2	57.48	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-45.66	2	51.57	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-41.9	2	55.33	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-44.95	2	52.28	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.55	2	47.68	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.58	2	40.65	Average	54	Pass
NVNT	ac40	5230	Ant1	5434.35	-46.62	2	50.61	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5424.9	-55.94	2	41.29	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.85	2	47.38	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.49	2	40.74	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-47.43	2	49.8	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.67	2	41.56	Average	54	Pass
NVNT	ac80	5210	Ant1	5449.11	-46.77	2	50.46	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5413.47	-55.42	2	41.81	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.85	2	46.38	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.05	2	41.18	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-48.78	2	48.45	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.6	2	39.63	Average	54	Pass
NVNT	ac80	5210	Ant1	5149.38	-42.21	2	55.02	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-46.81	2	50.42	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-40.81	2	56.42	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-46.77	2	50.46	Average	54	Pass
NVNT	ac160	5250	Ant1	5350	-48.87	2	48.36	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5350	-55.28	2	41.95	Average	54	Pass
NVNT	ac160	5250	Ant1	5391.92	-46.09	2	51.14	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5402.28	-53.6	2	43.63	Average	54	Pass
NVNT	ac160	5250	Ant1	5460	-46.89	2	50.34	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5460	-55.39	2	41.84	Average	54	Pass
NVNT	ac160	5250	Ant1	4500	-51.82	2	45.41	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	4500	-57.46	2	39.77	Average	54	Pass
NVNT	ac160	5250	Ant1	5116.07	-45.33	2	51.9	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5116.98	-53.54	2	43.69	Average	54	Pass
NVNT	ac160	5250	Ant1	5150	-49.63	2	47.6	Peak	68.2	Pass
NVNT	ac160	5250	Ant1	5150	-54.57	2	42.66	Average	54	Pass



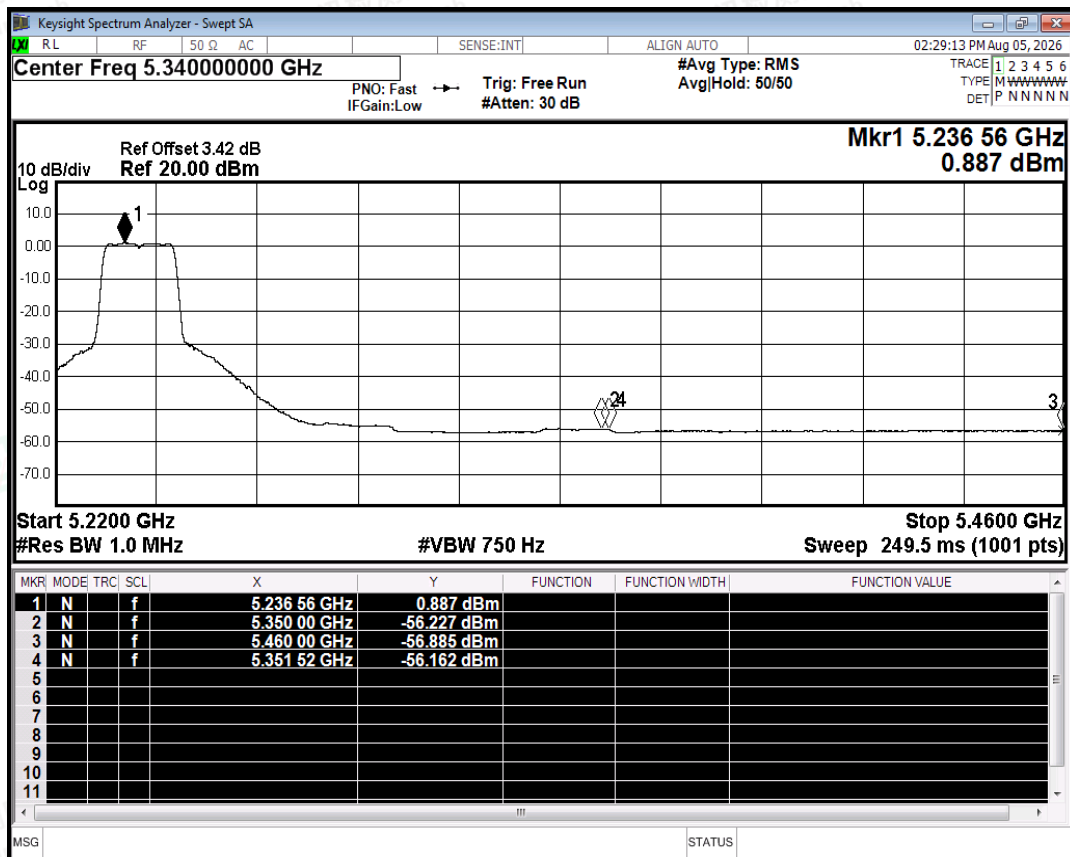
Restrict Band NVNT a 5180MHz Ant1 Peak



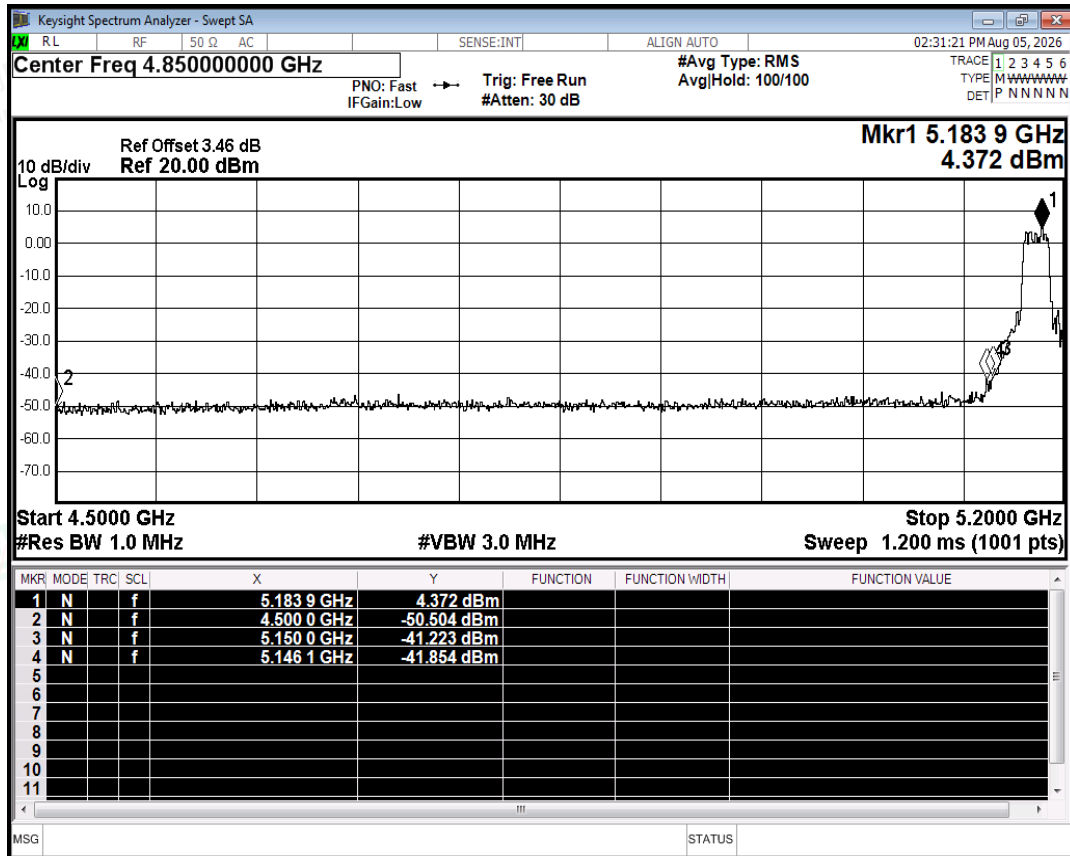
Restrict Band NVNT a 5180MHz Ant1 Average



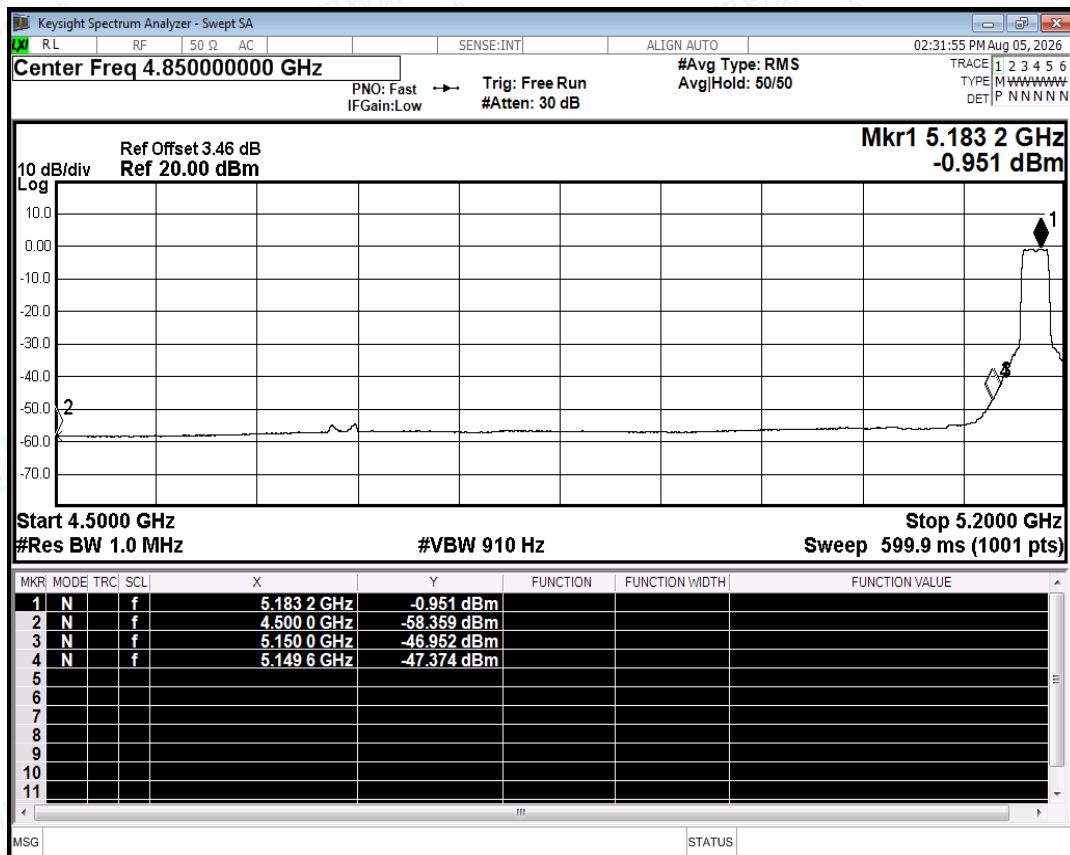
Restrict Band NVNT a 5240MHz Ant1 Peak



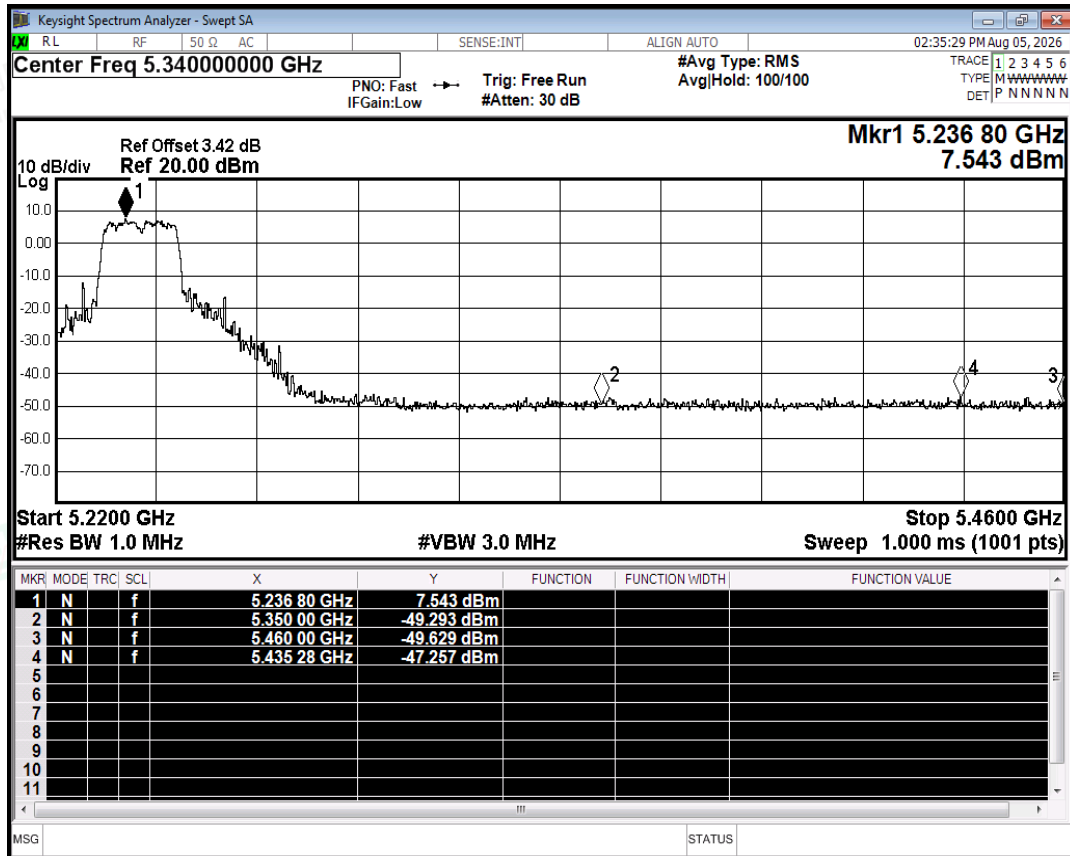
Restrict Band NVNT a 5240MHz Ant1 Average



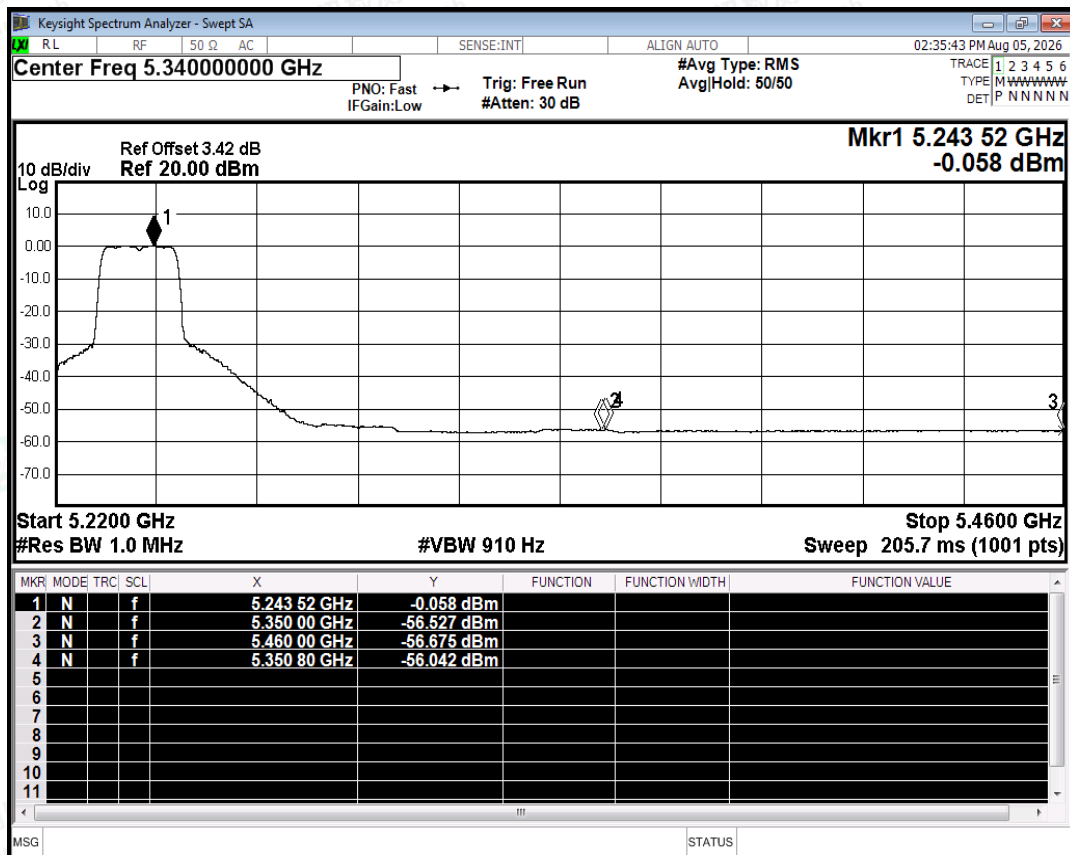
Restrict Band NVNT n20 5180MHz Ant1 Peak



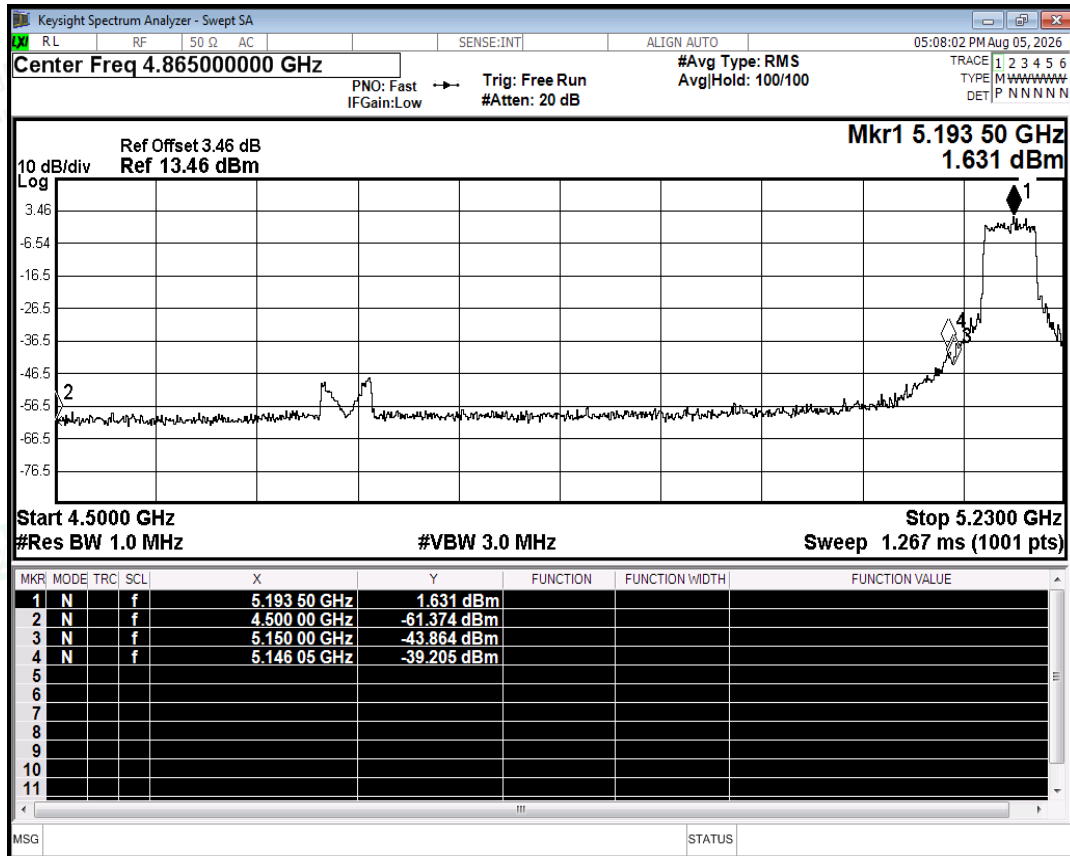
Restrict Band NVNT n20 5180MHz Ant1 Average



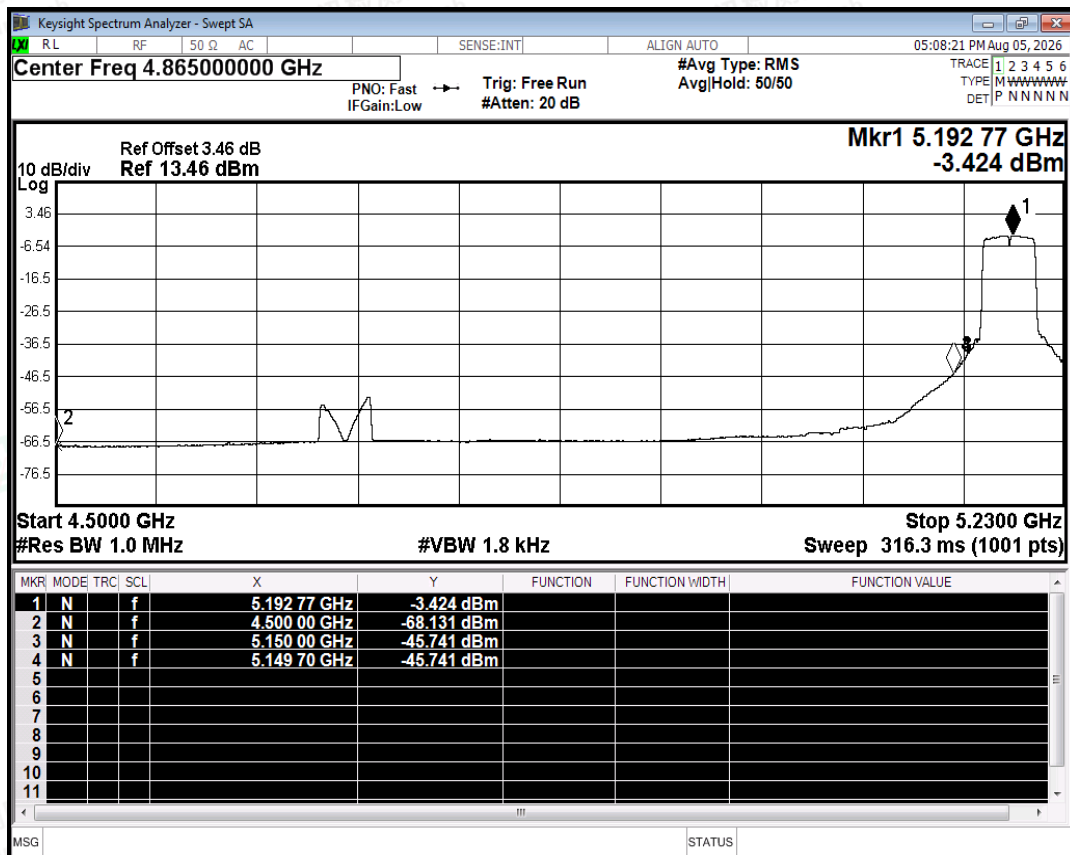
Restrict Band NVNT n20 5240MHz Ant1 Peak



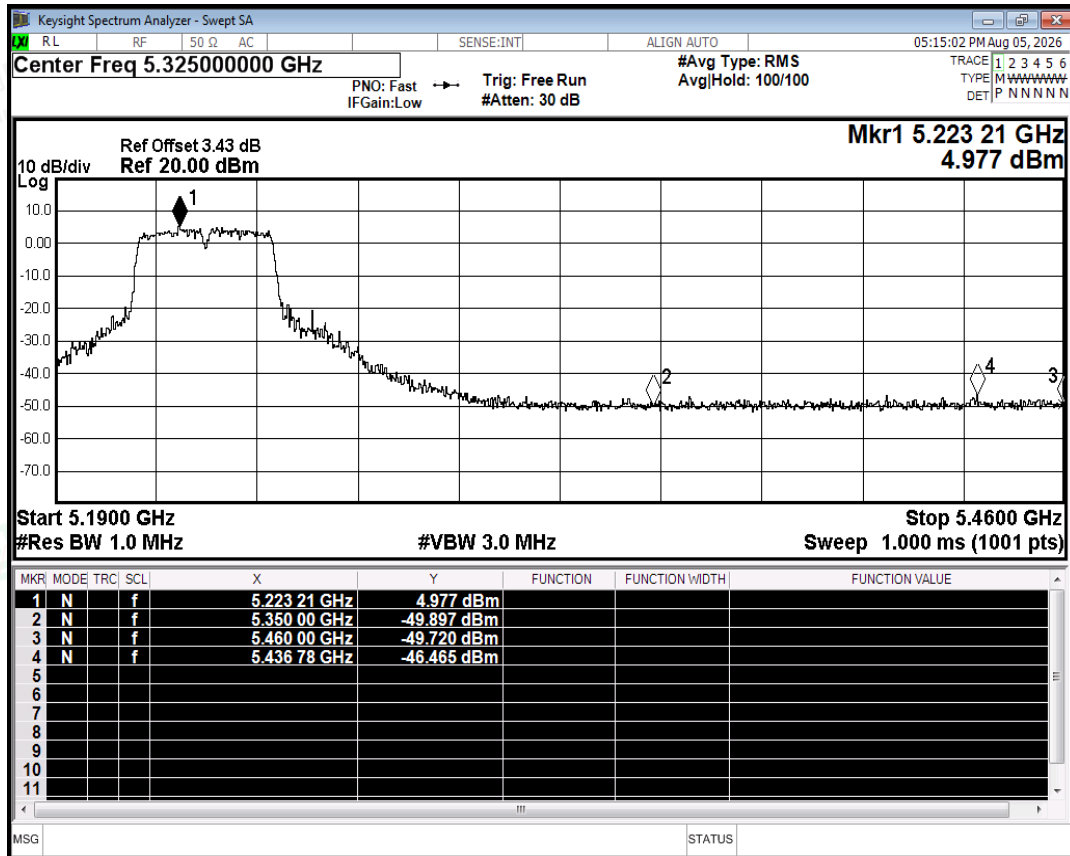
Restrict Band NVNT n20 5240MHz Ant1 Average



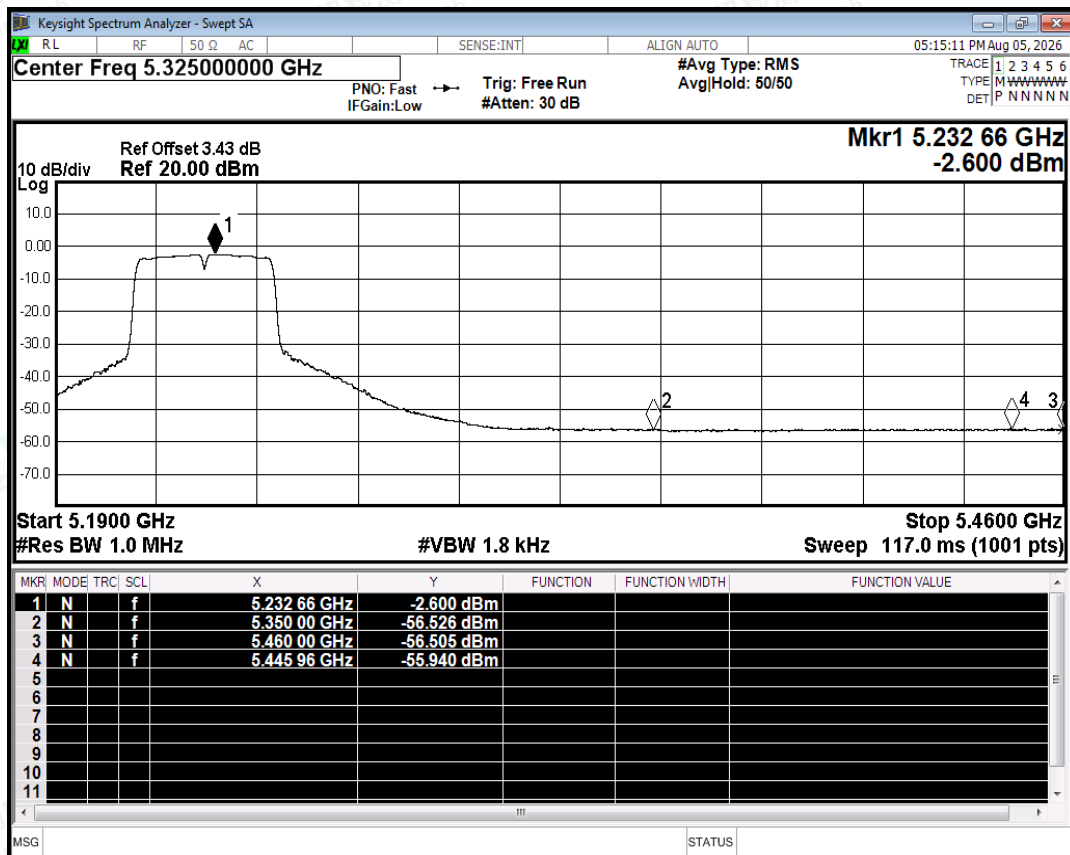
Restrict Band NVNT n40 5190MHz Ant1 Peak



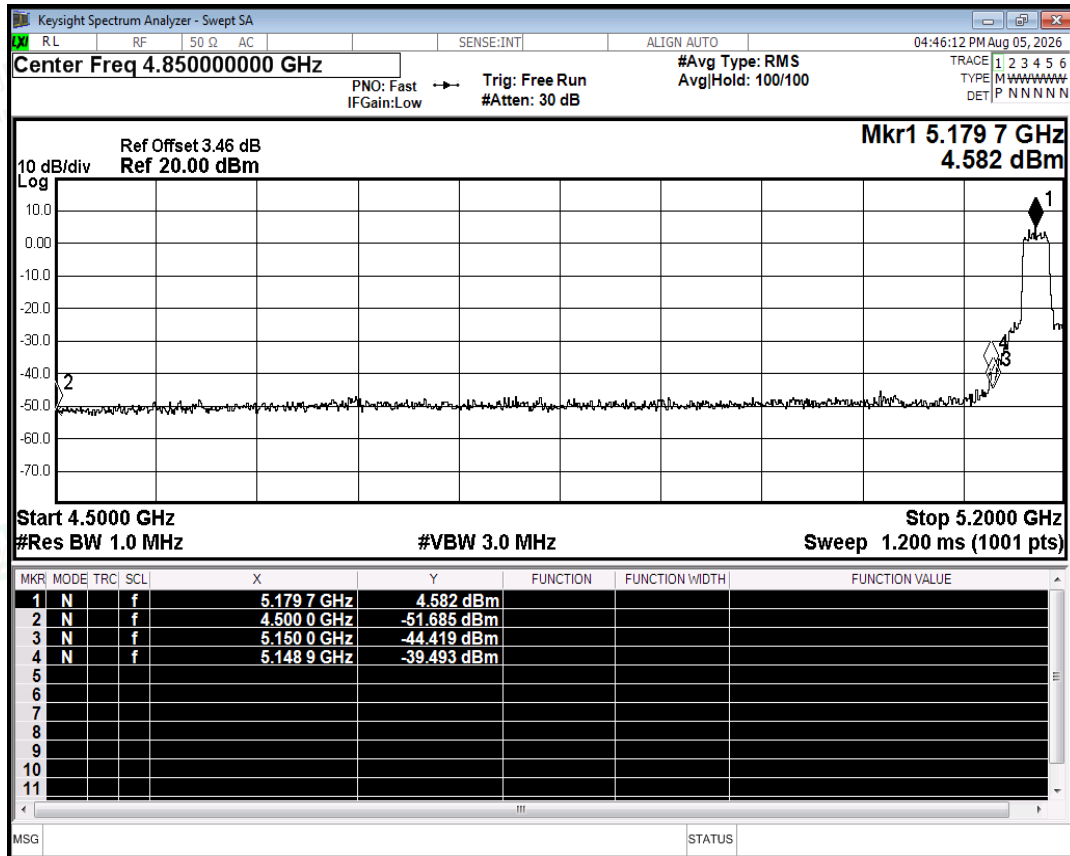
Restrict Band NVNT n40 5190MHz Ant1 Average



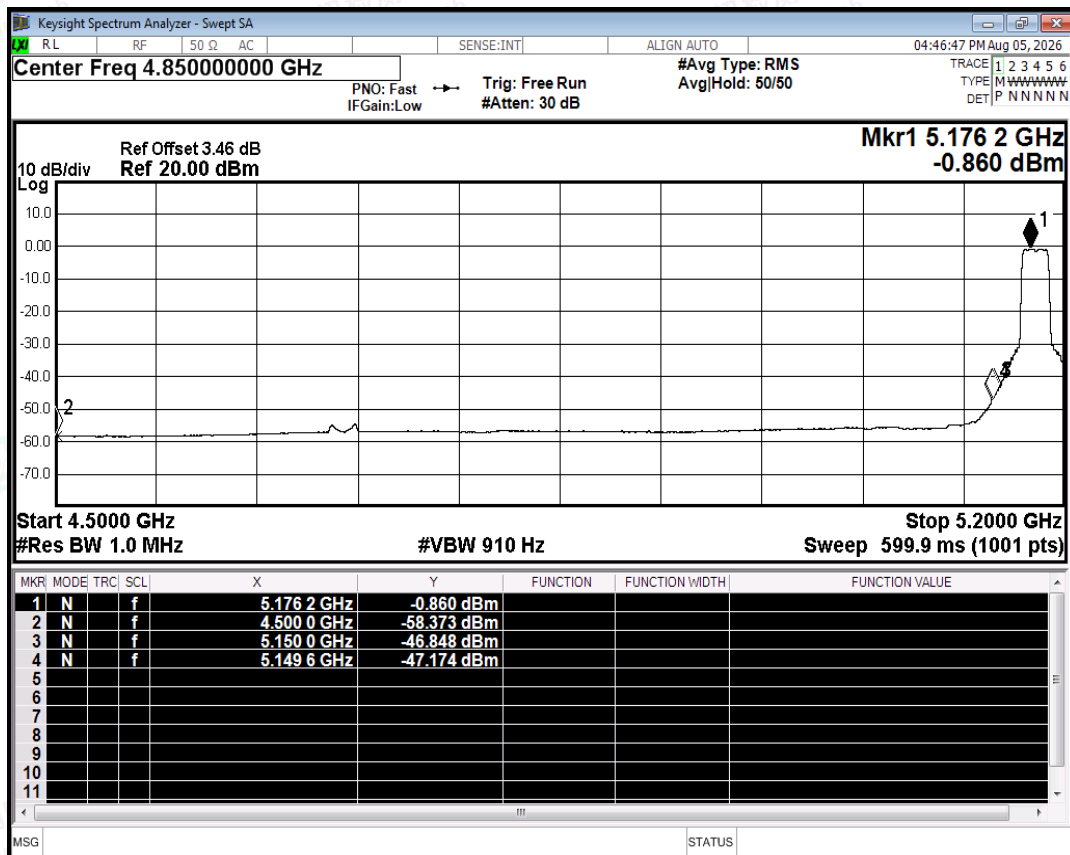
Restrict Band NVNT n40 5230MHz Ant1 Peak



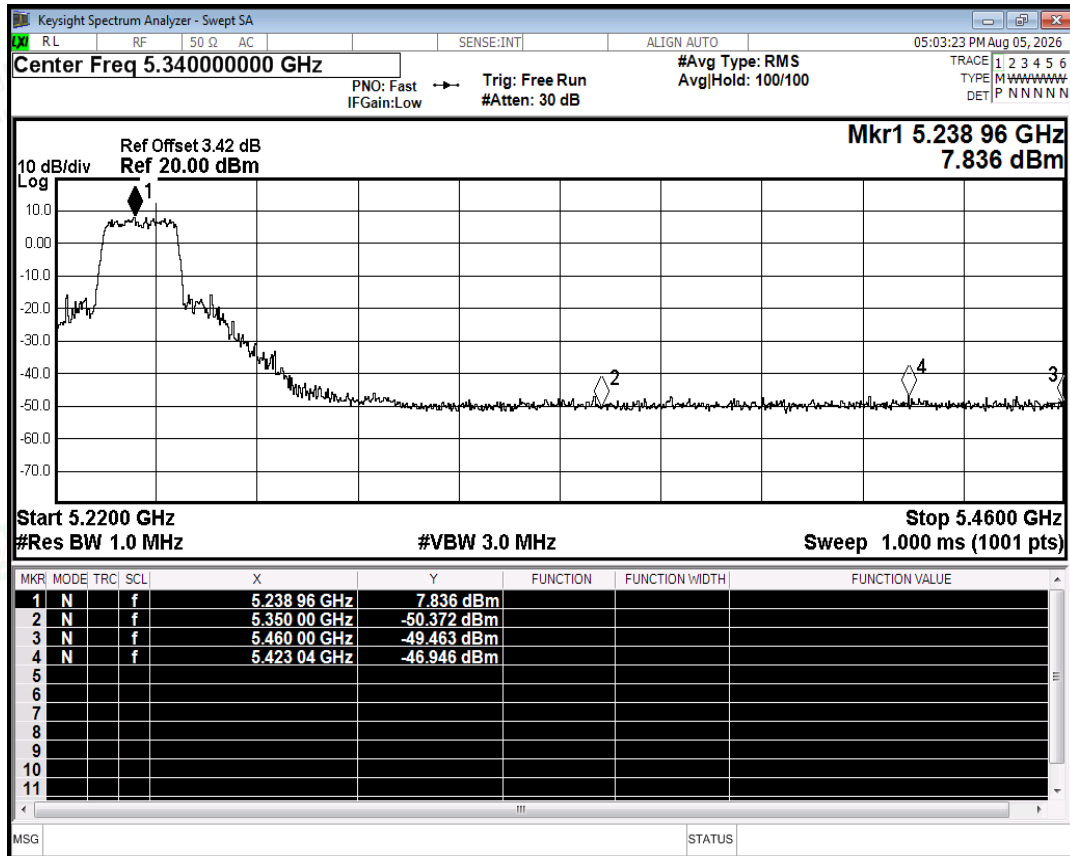
Restrict Band NVNT n40 5230MHz Ant1 Average



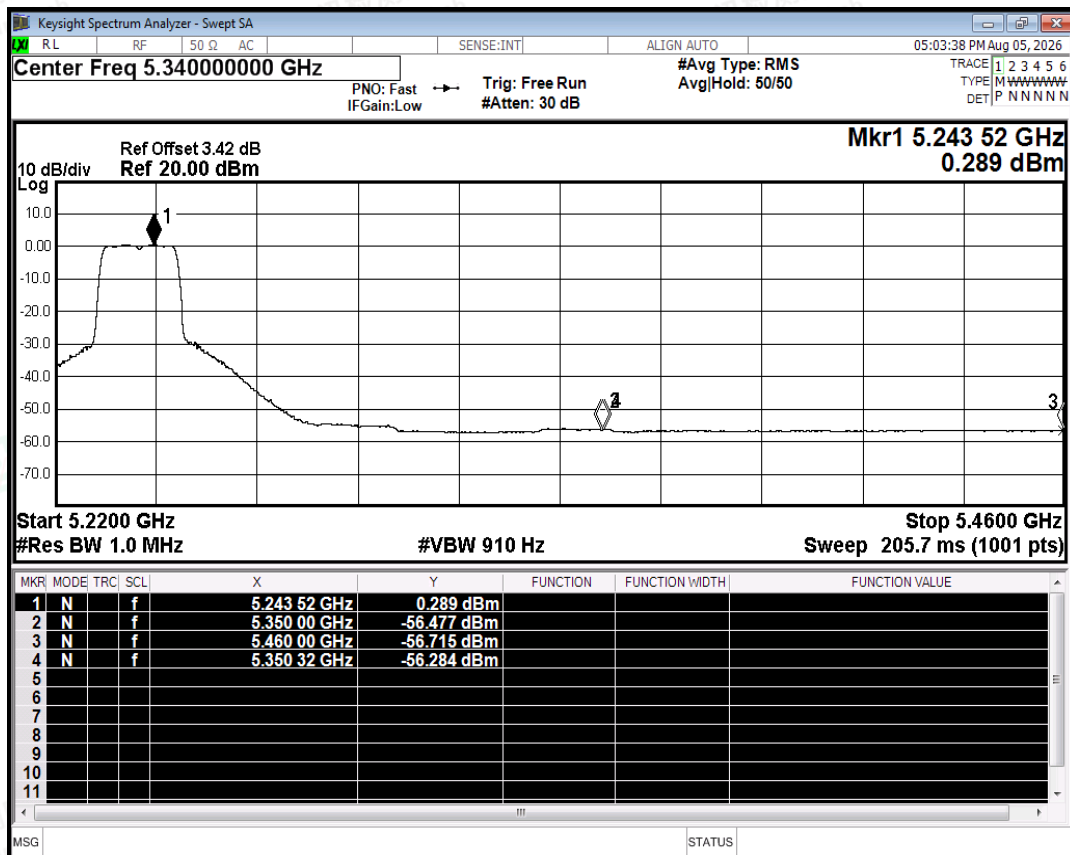
Restrict Band NVNT ac20 5180MHz Ant1 Peak



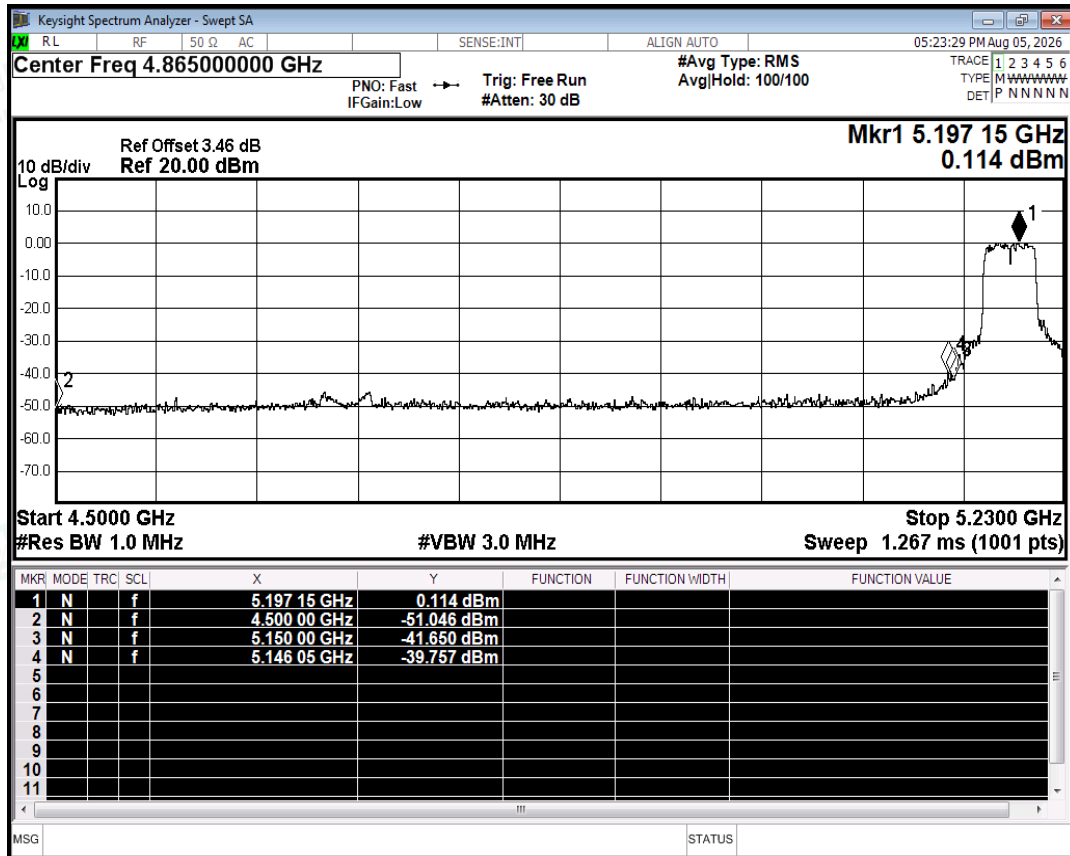
Restrict Band NVNT ac20 5180MHz Ant1 Average



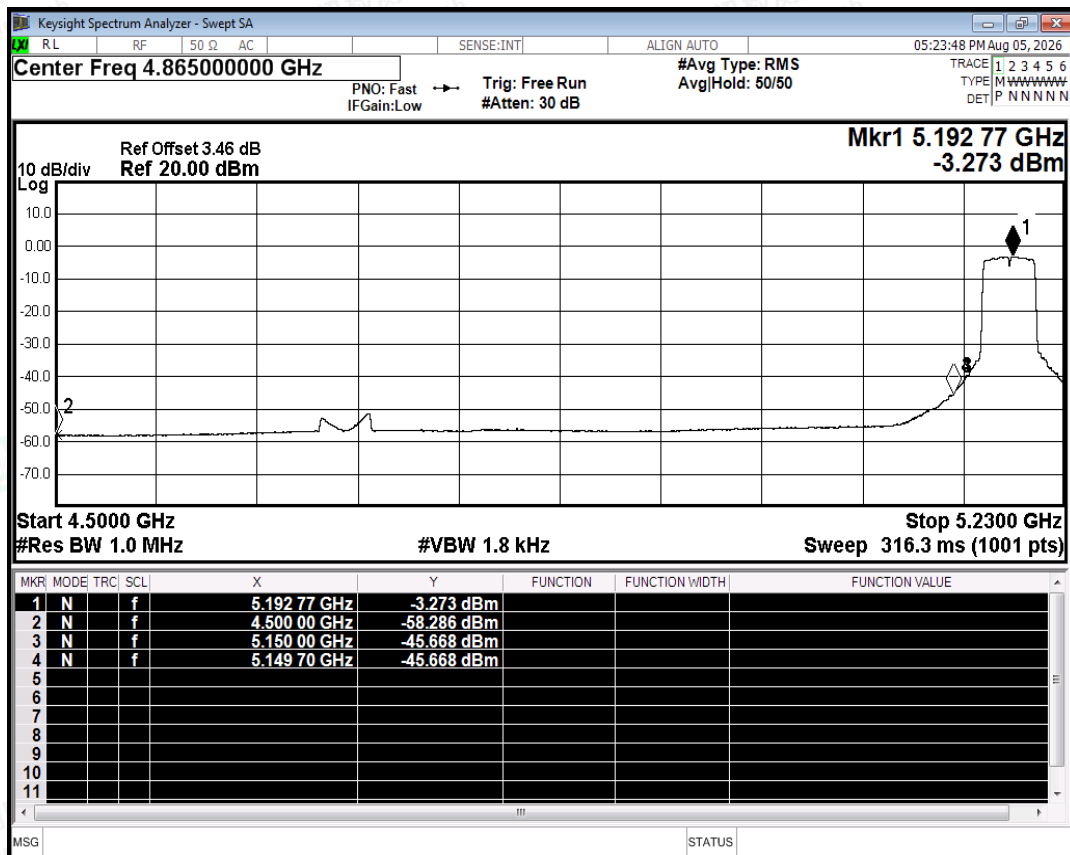
Restrict Band NVNT ac20 5240MHz Ant1 Peak



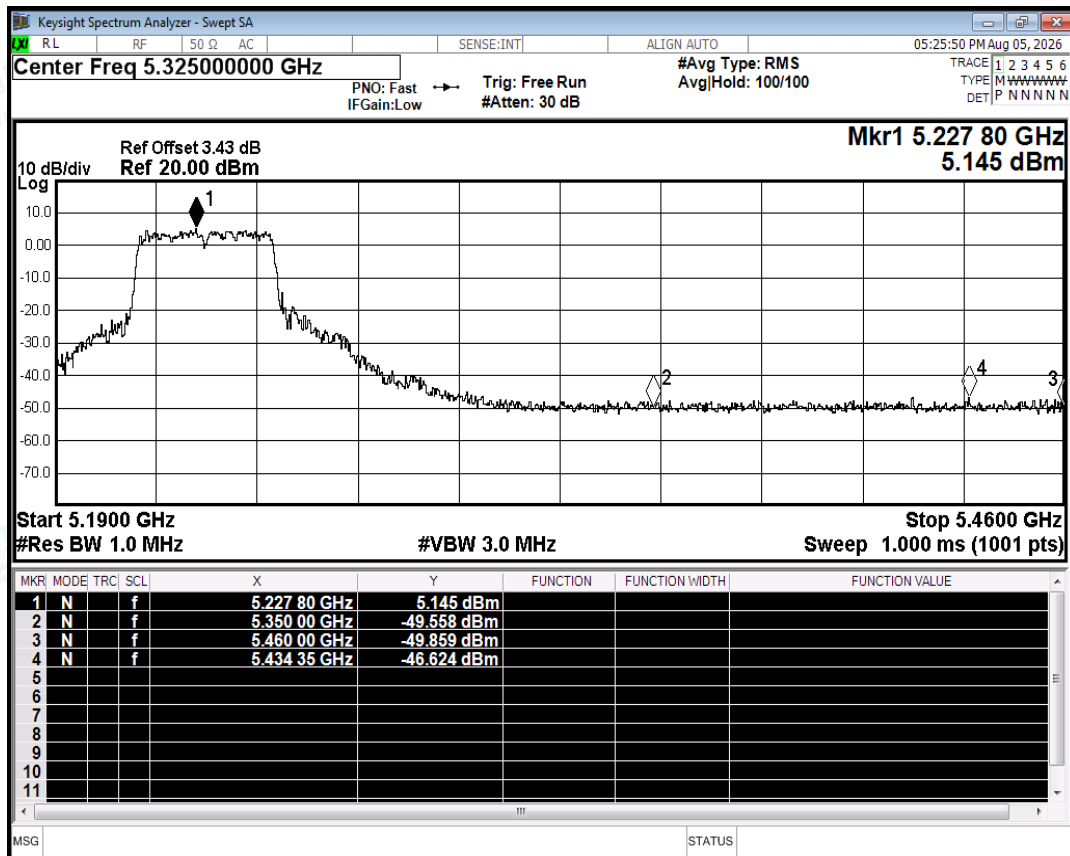
Restrict Band NVNT ac20 5240MHz Ant1 Average



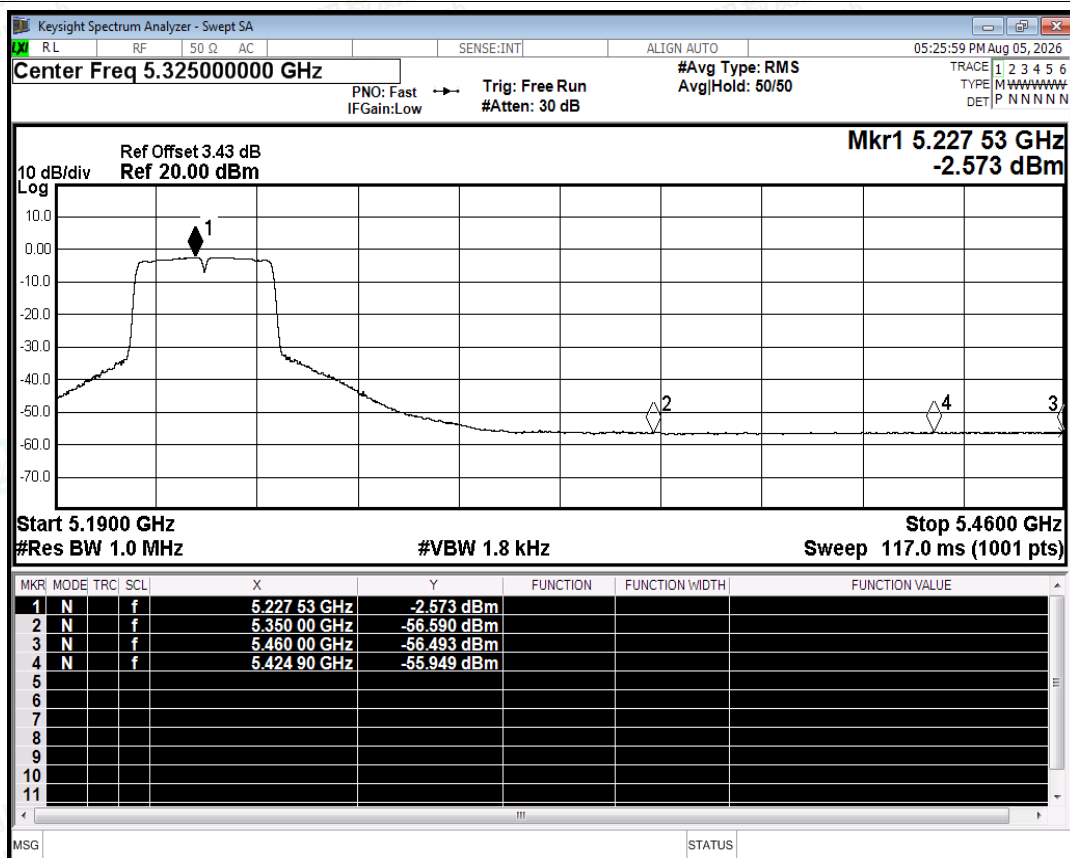
Restrict Band NVNT ac40 5190MHz Ant1 Peak



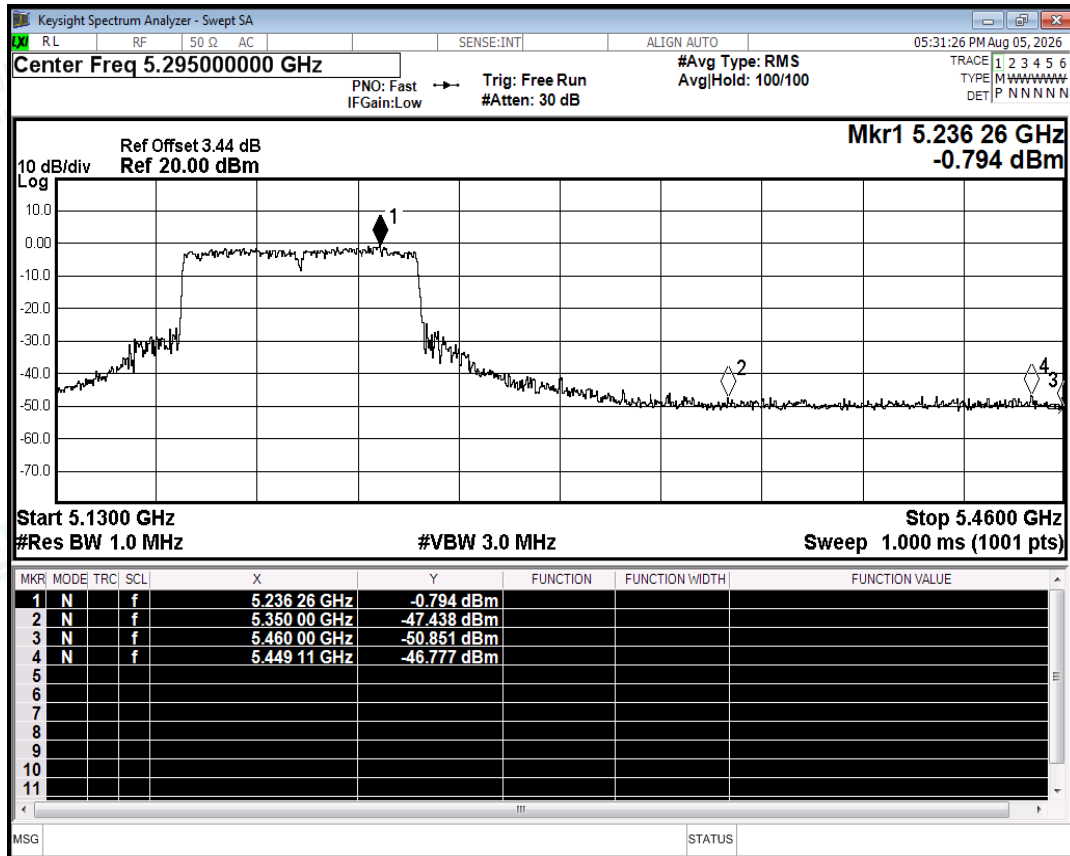
Restrict Band NVNT ac40 5190MHz Ant1 Average



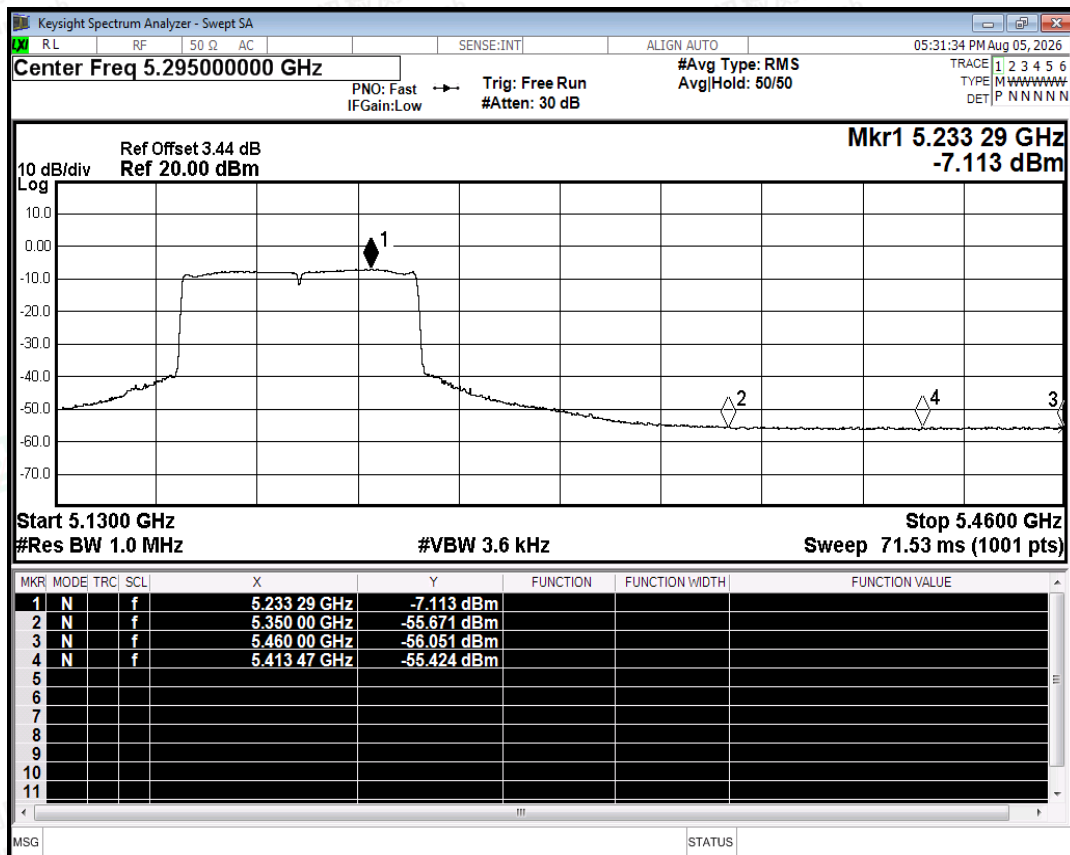
Restrict Band NVNT ac40 5230MHz Ant1 Peak



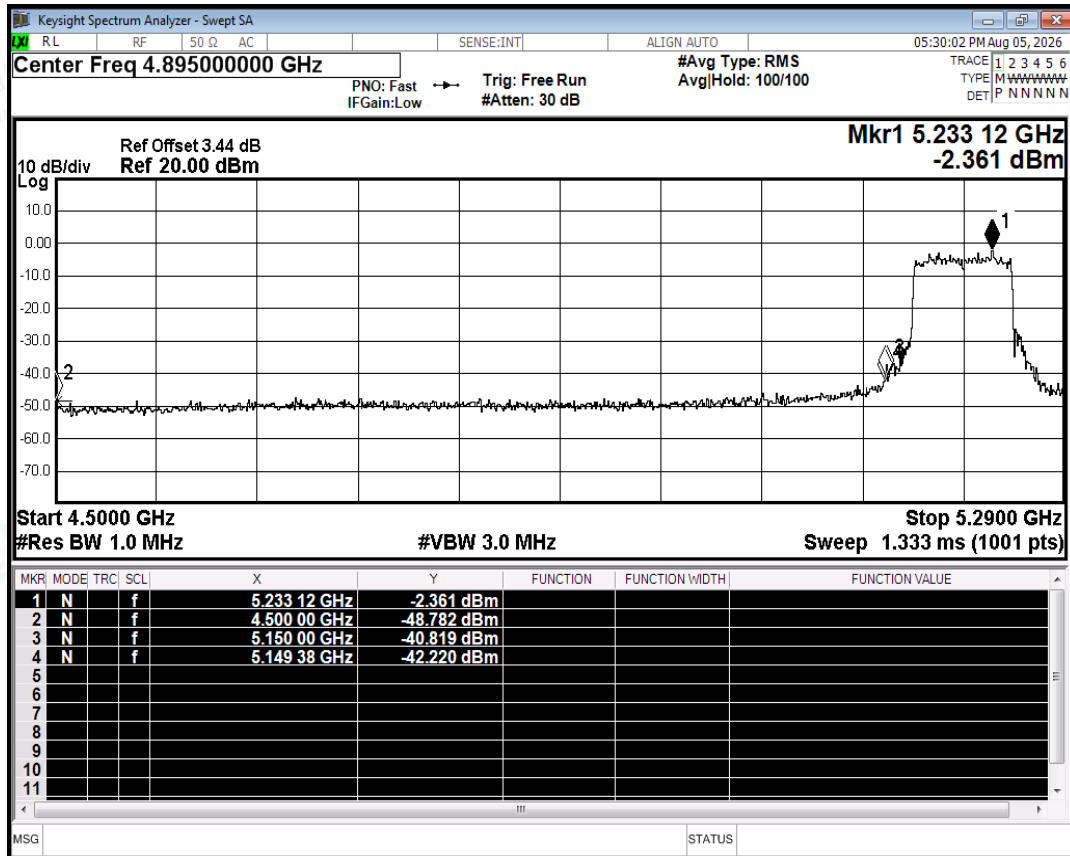
Restrict Band NVNT ac40 5230MHz Ant1 Average



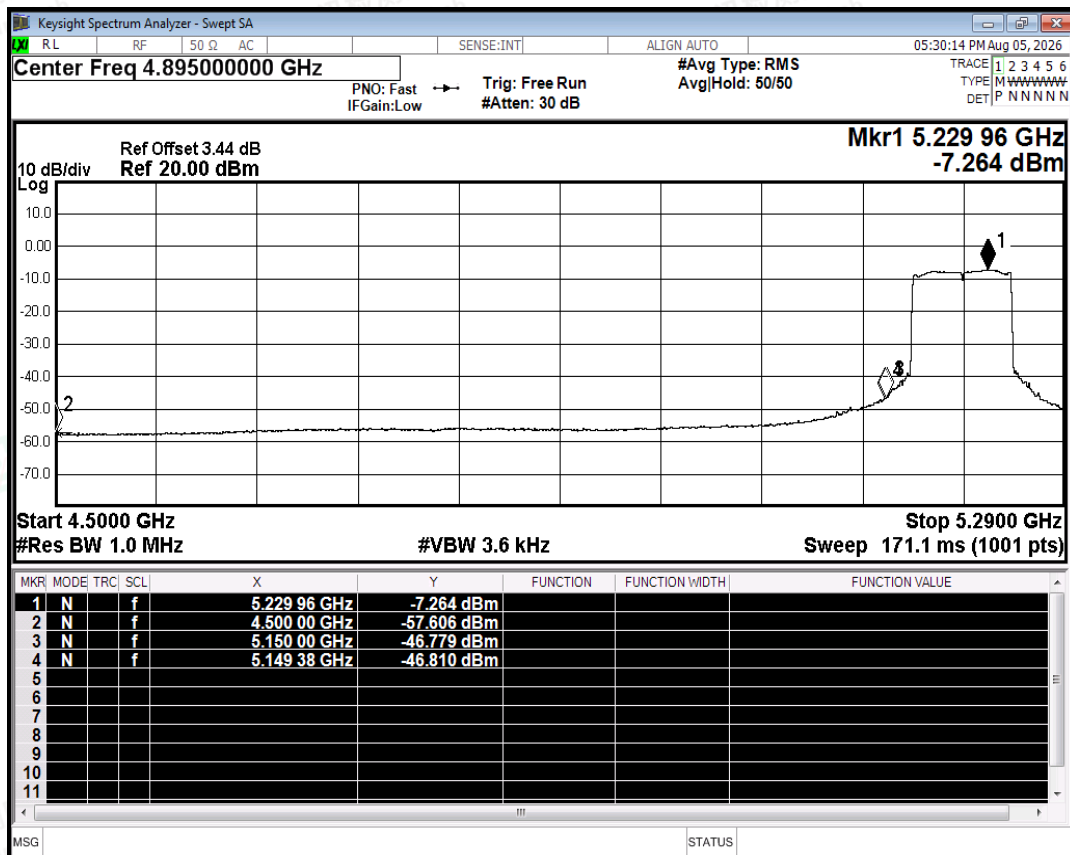
Restrict Band NVNT ac80 5210MHz Ant1 Peak



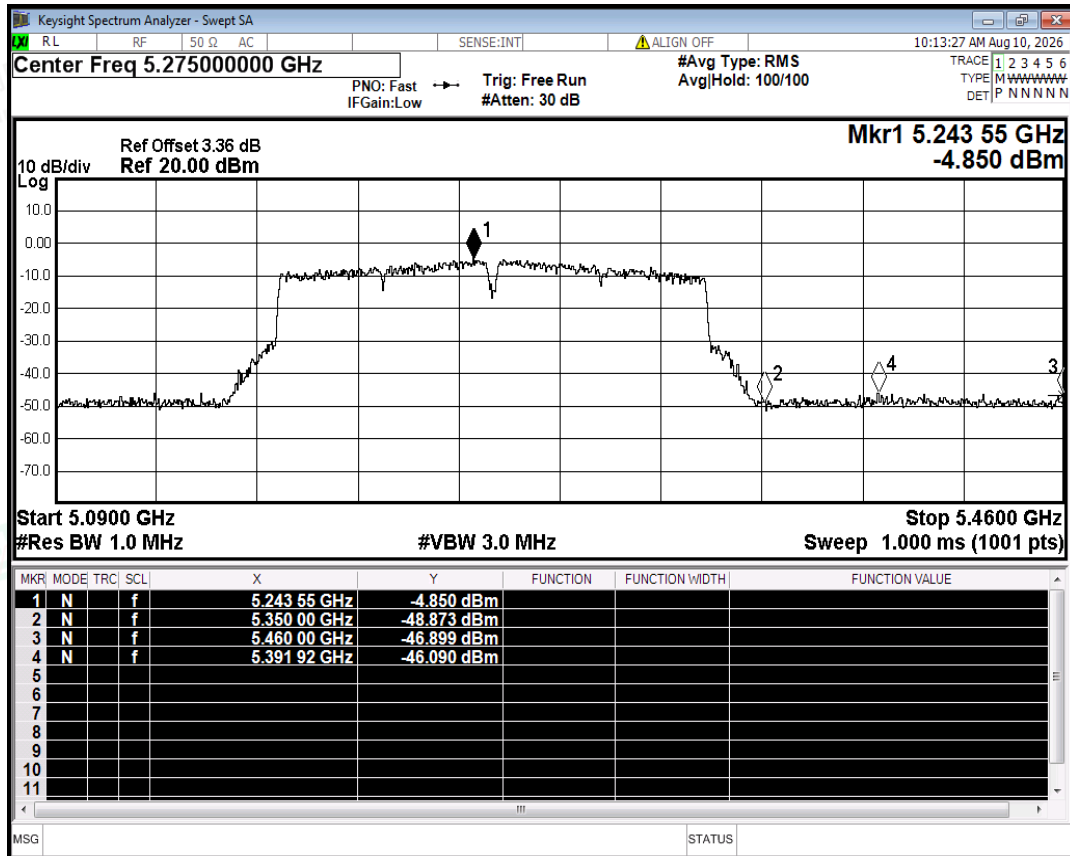
Restrict Band NVNT ac80 5210MHz Ant1 Average



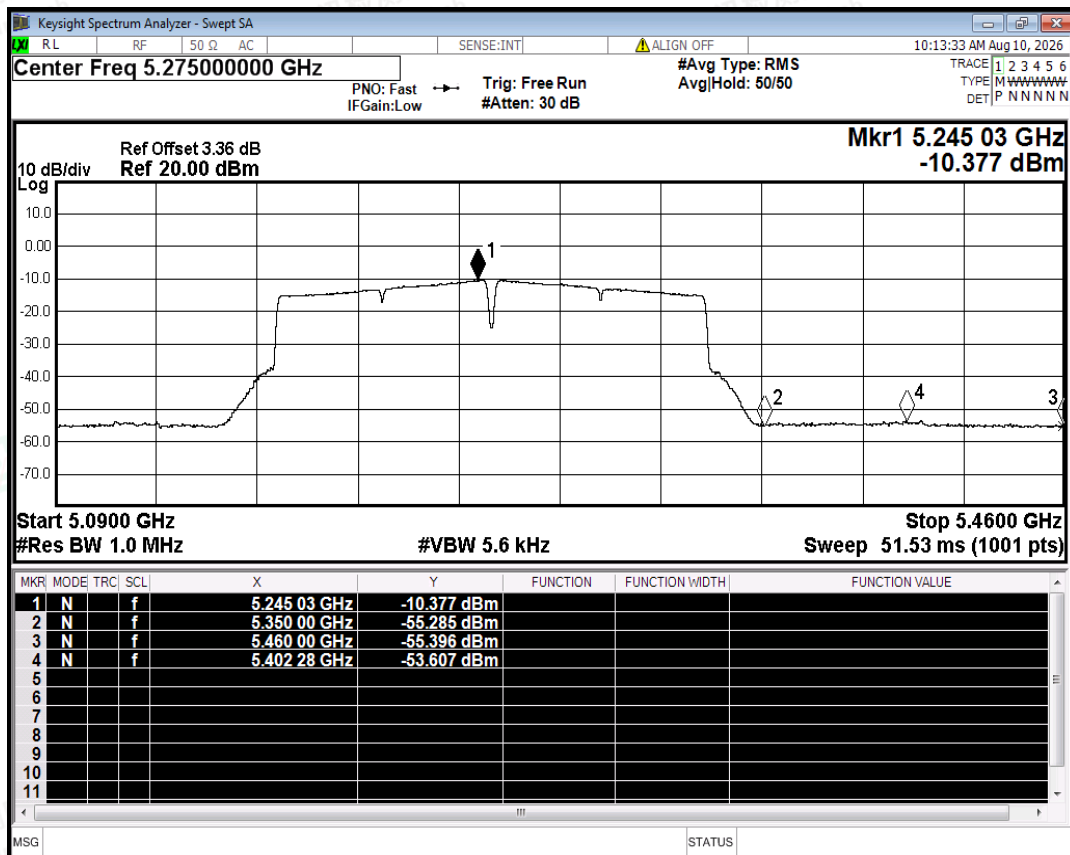
Restrict Band NVNT ac80 5210MHz Ant1 Peak



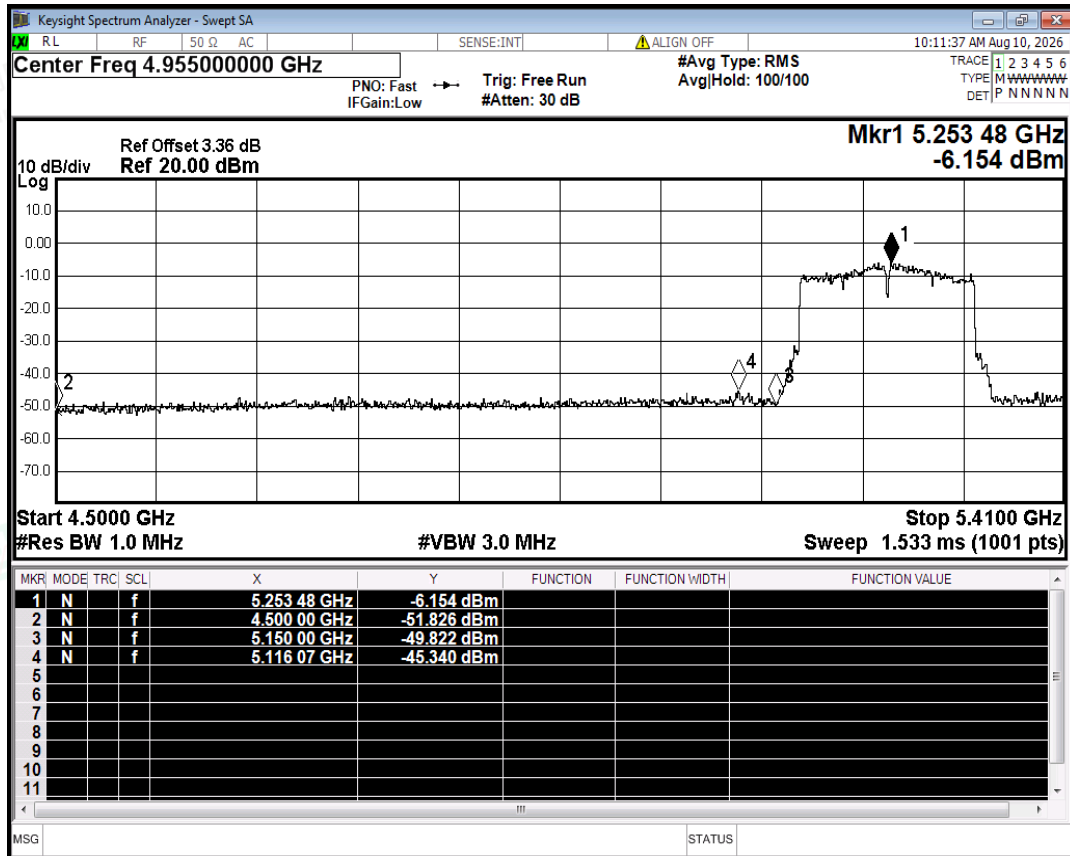
Restrict Band NVNT ac80 5210MHz Ant1 Average



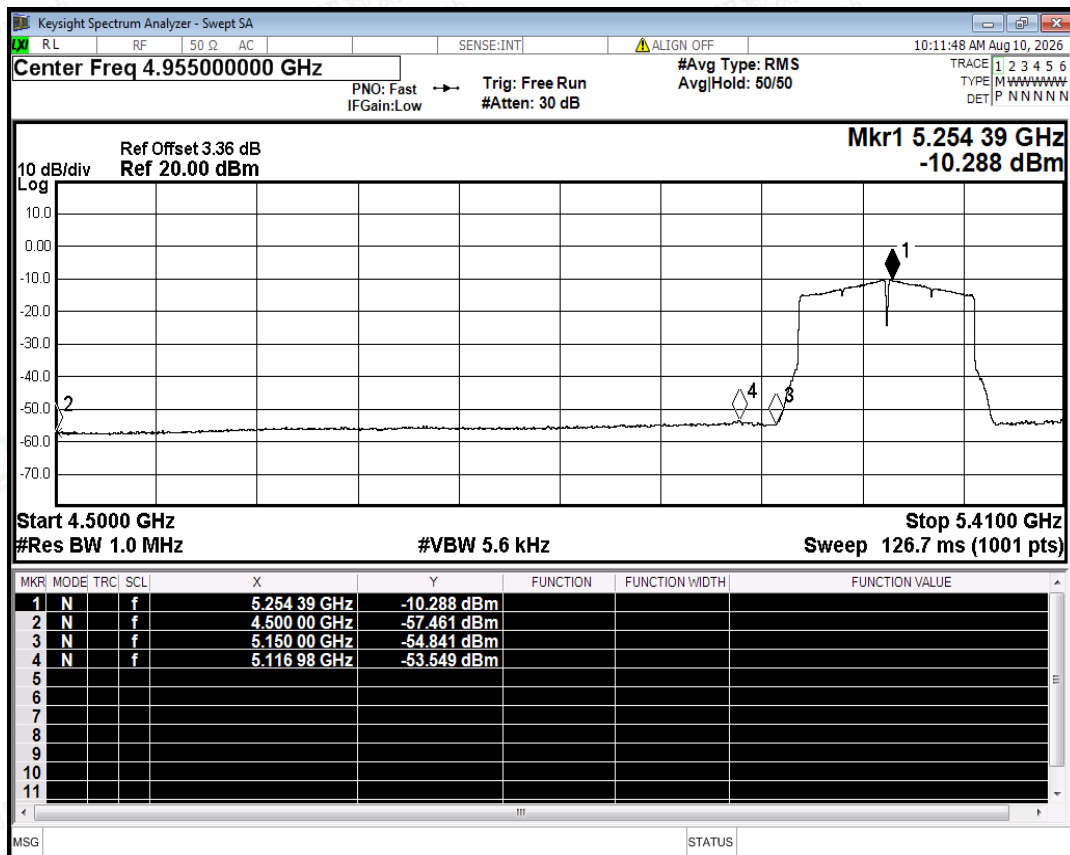
Restrict Band NVNT ac160 5250MHz Ant1 Peak



Restrict Band NVNT ac160 5250MHz Ant1 Average



Restrict Band NVNT ac160 5250MHz Ant1 Peak

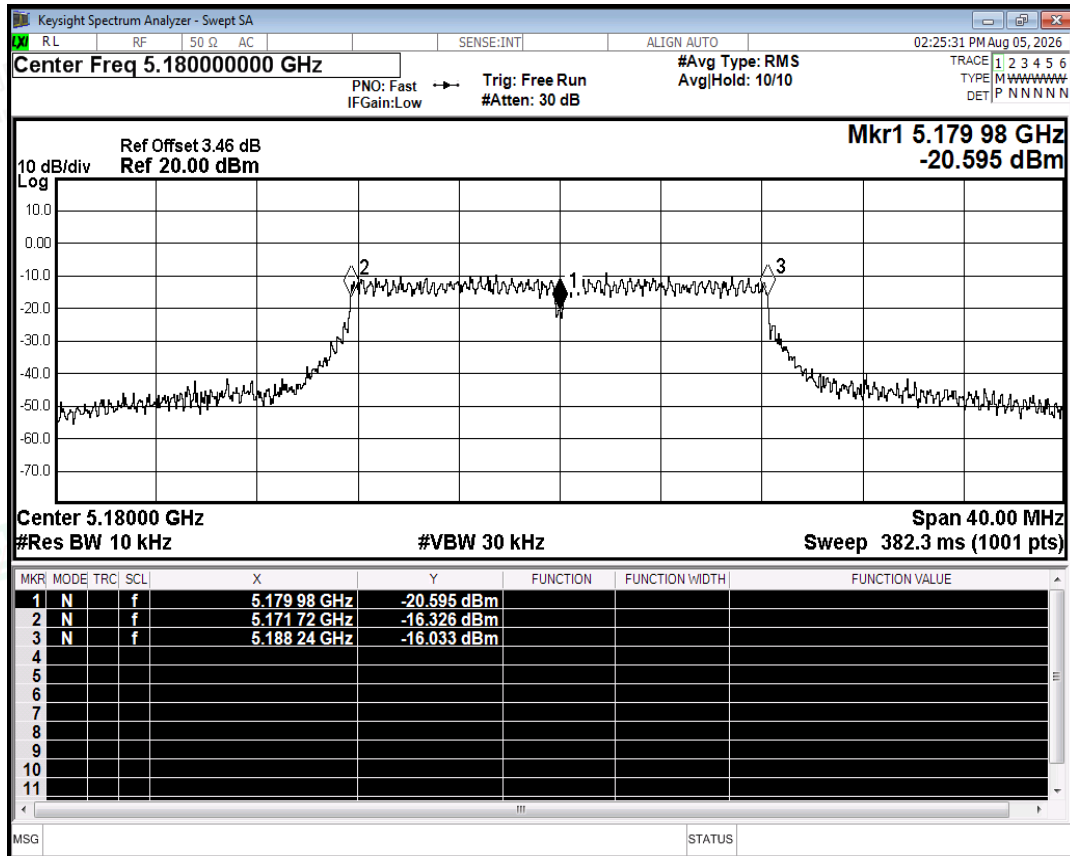


Restrict Band NVNT ac160 5250MHz Ant1 Average

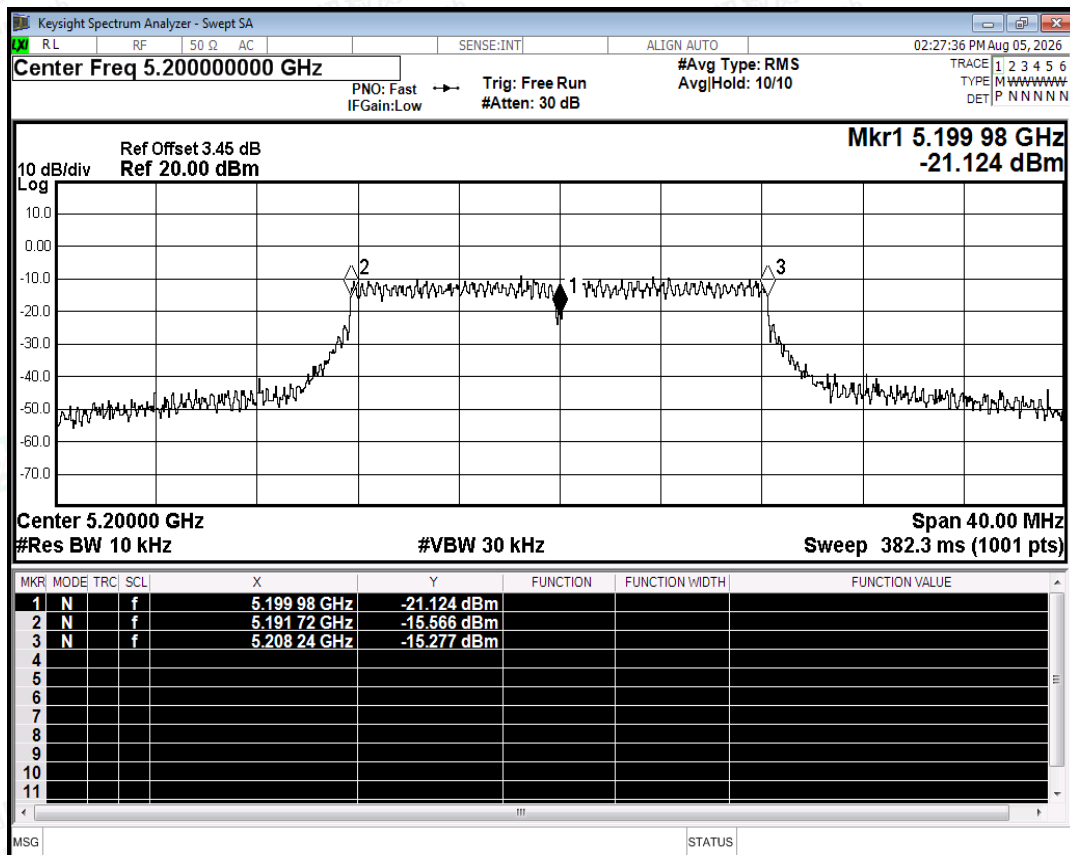


D.5 Frequency Stability

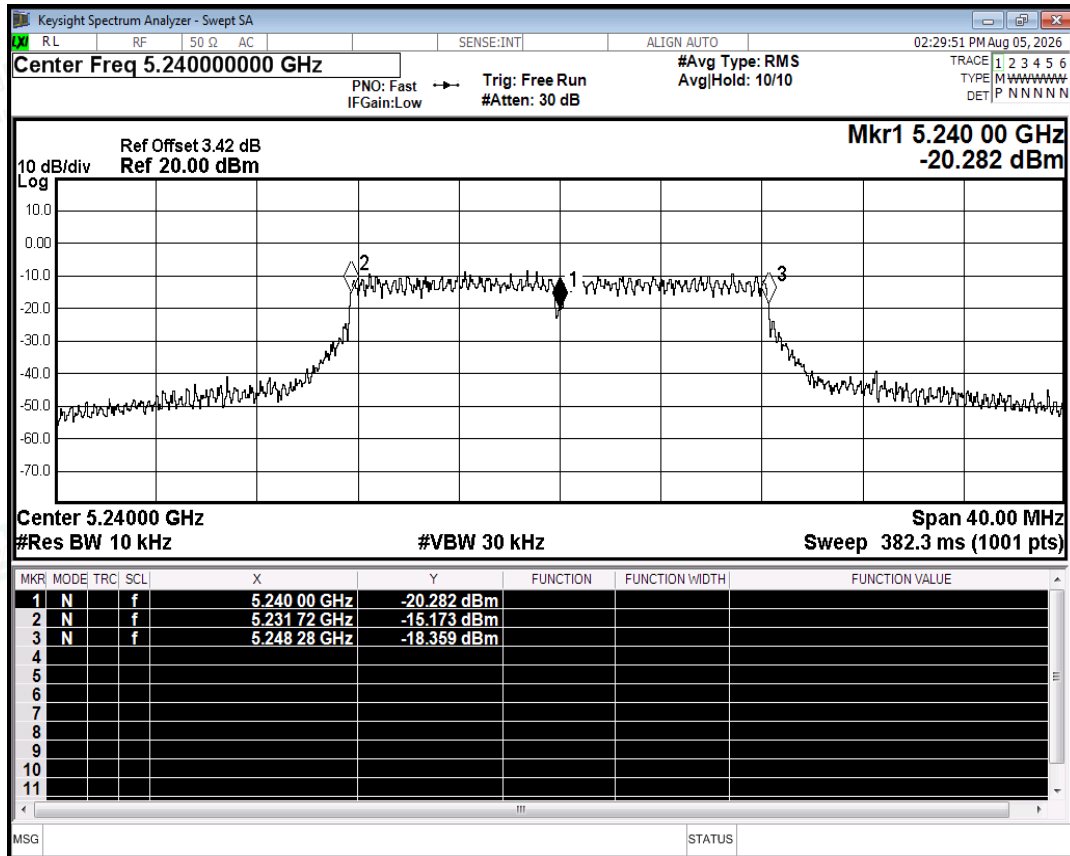
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	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	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	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



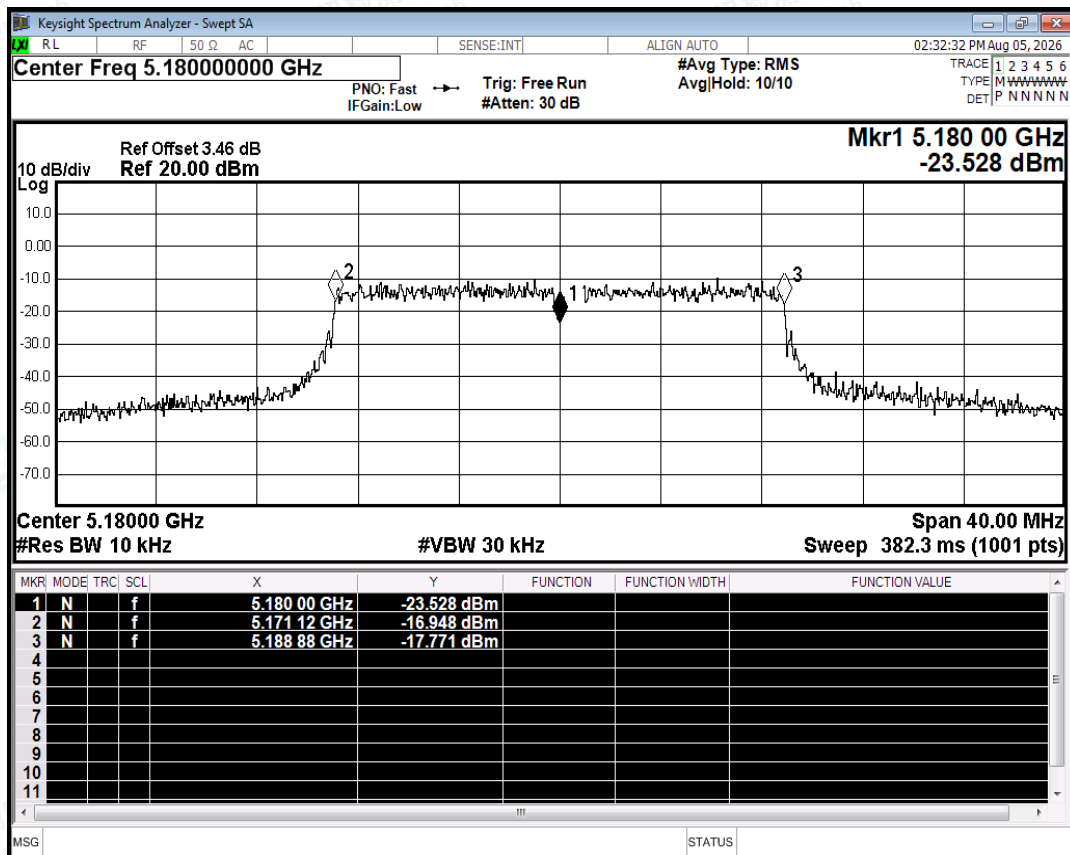
Freq. Stability NVNT a 5180MHz Ant1



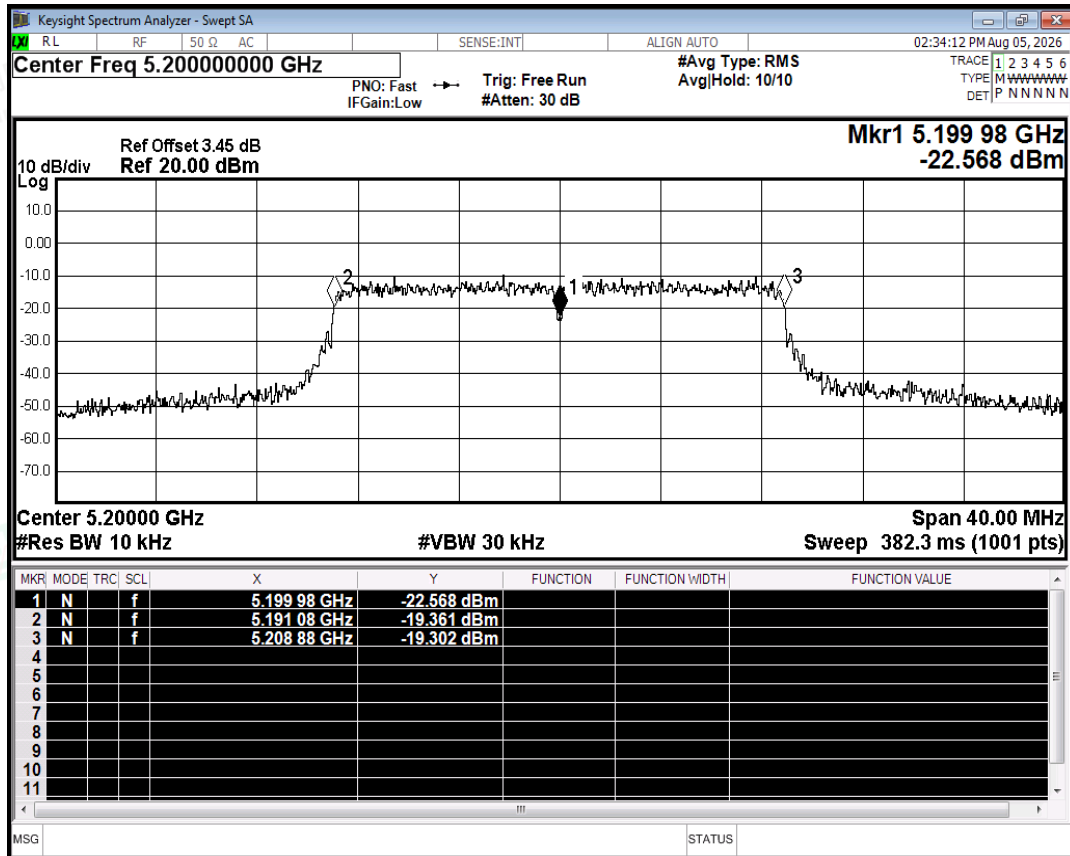
Freq. Stability NVNT a 5200MHz Ant1



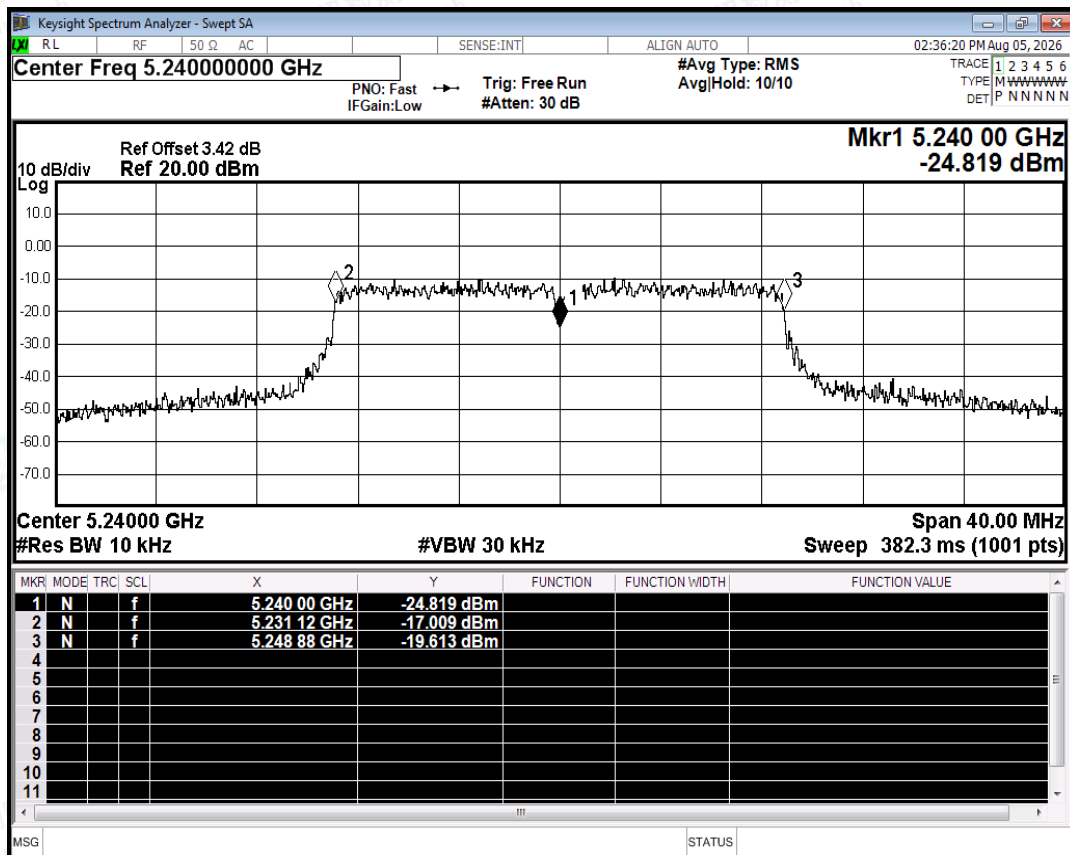
Freq. Stability NVNT a 5240MHz Ant1



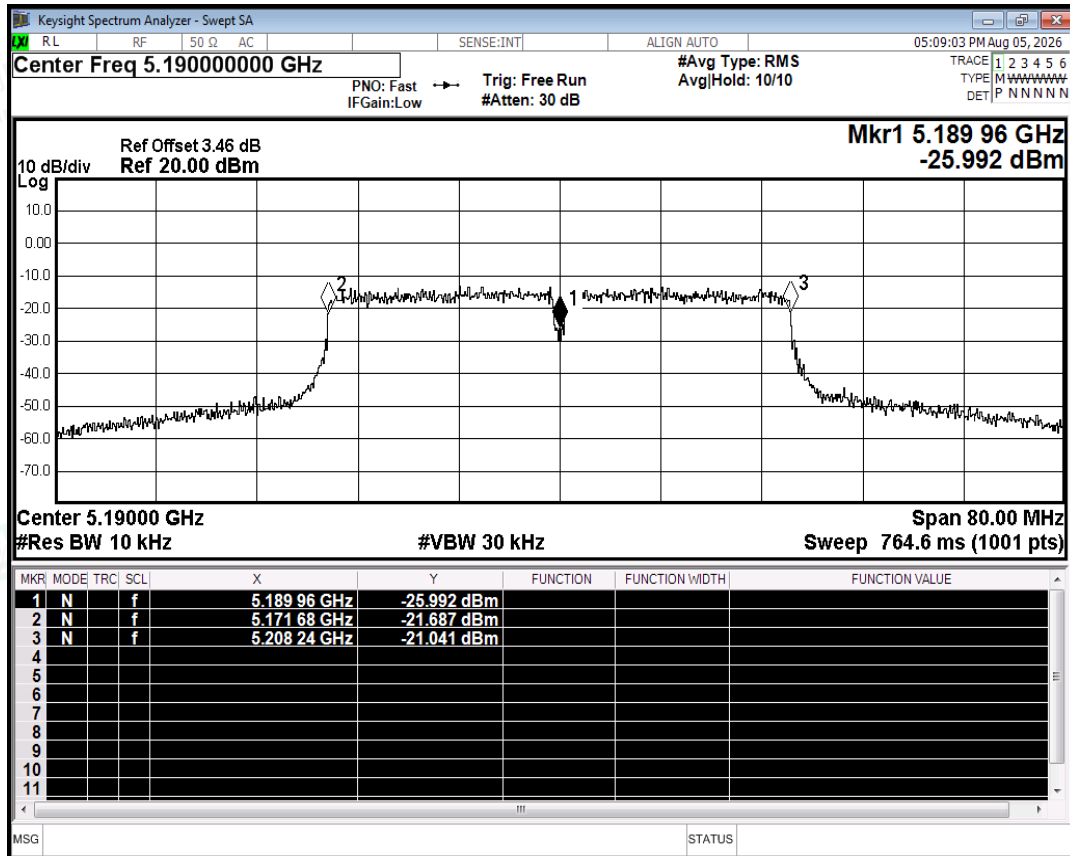
Freq. Stability NVNT n20 5180MHz Ant1



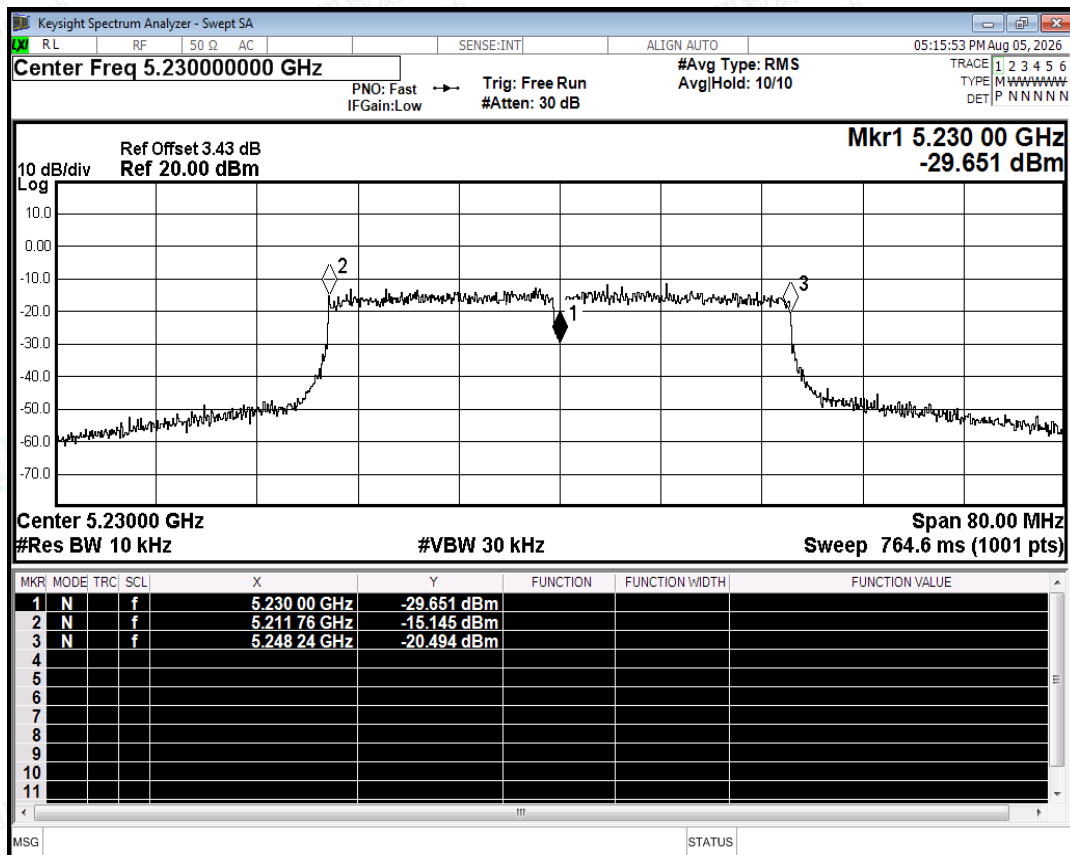
Freq. Stability NVNT n20 5200MHz Ant1



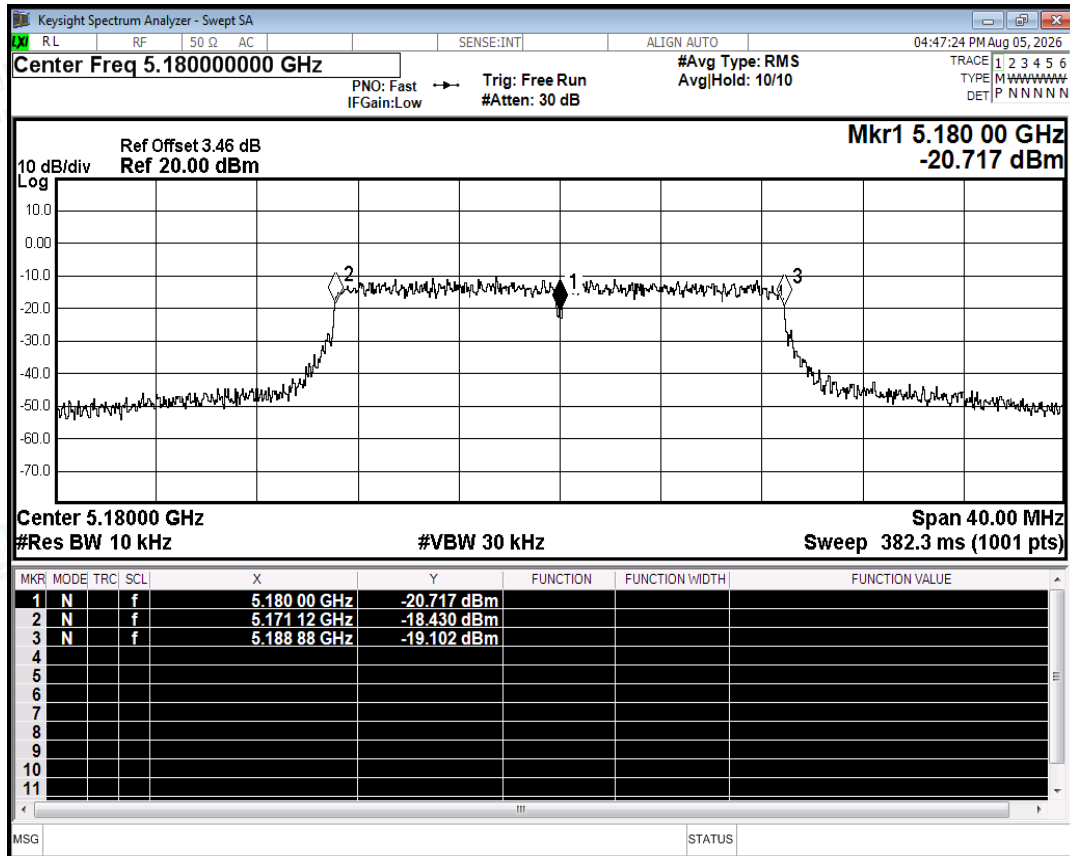
Freq. Stability NVNT n20 5240MHz Ant1



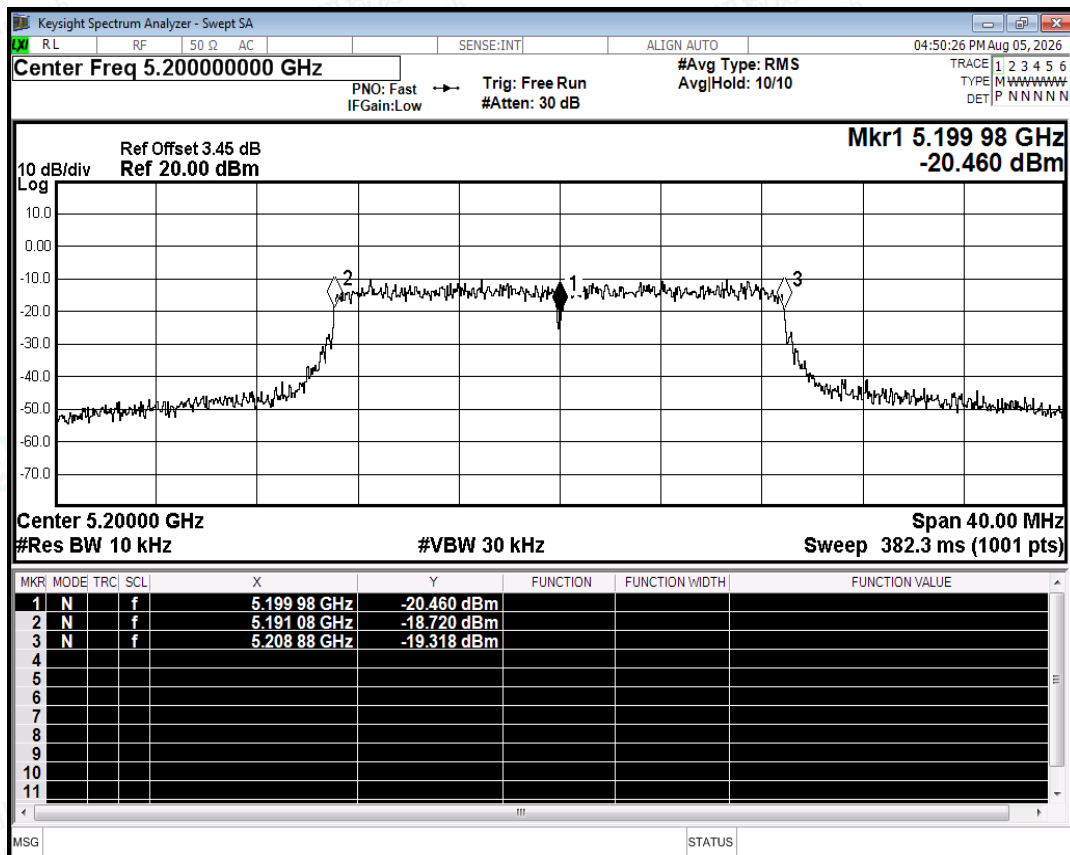
Freq. Stability NVNT n40 5190MHz Ant1



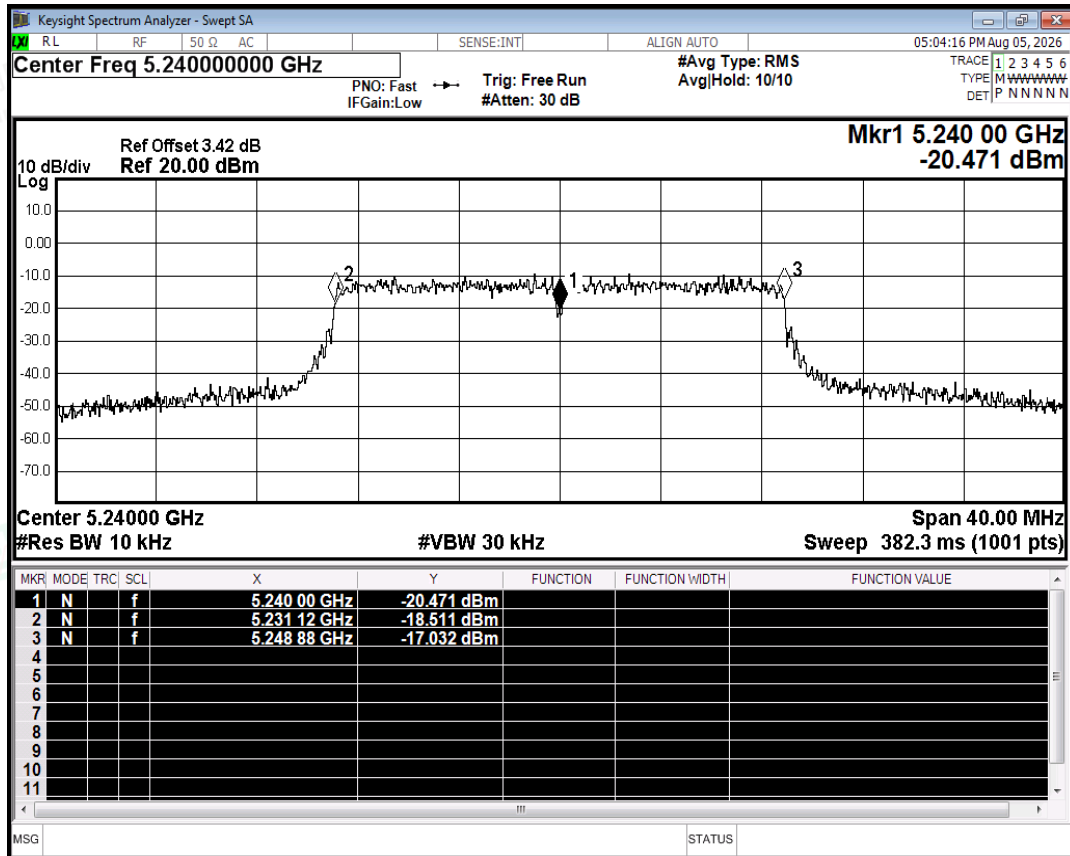
Freq. Stability NVNT n40 5230MHz Ant1



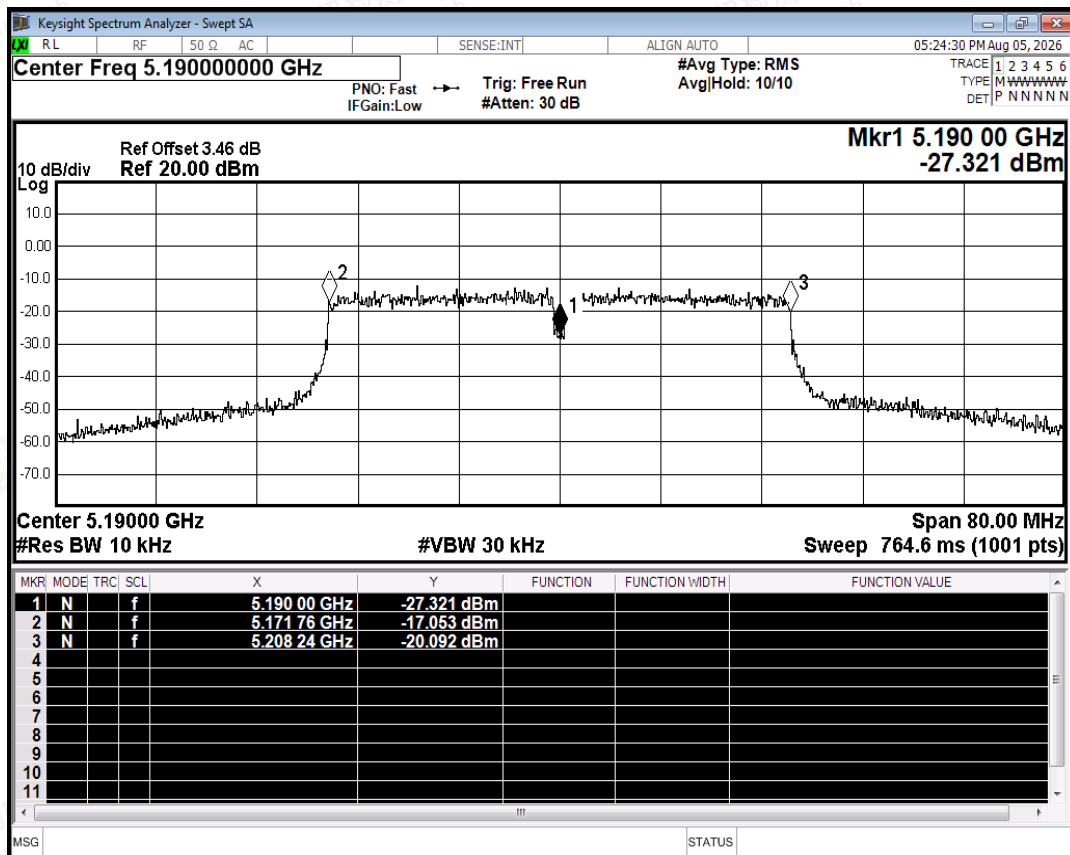
Freq. Stability NVNT ac20 5180MHz Ant1



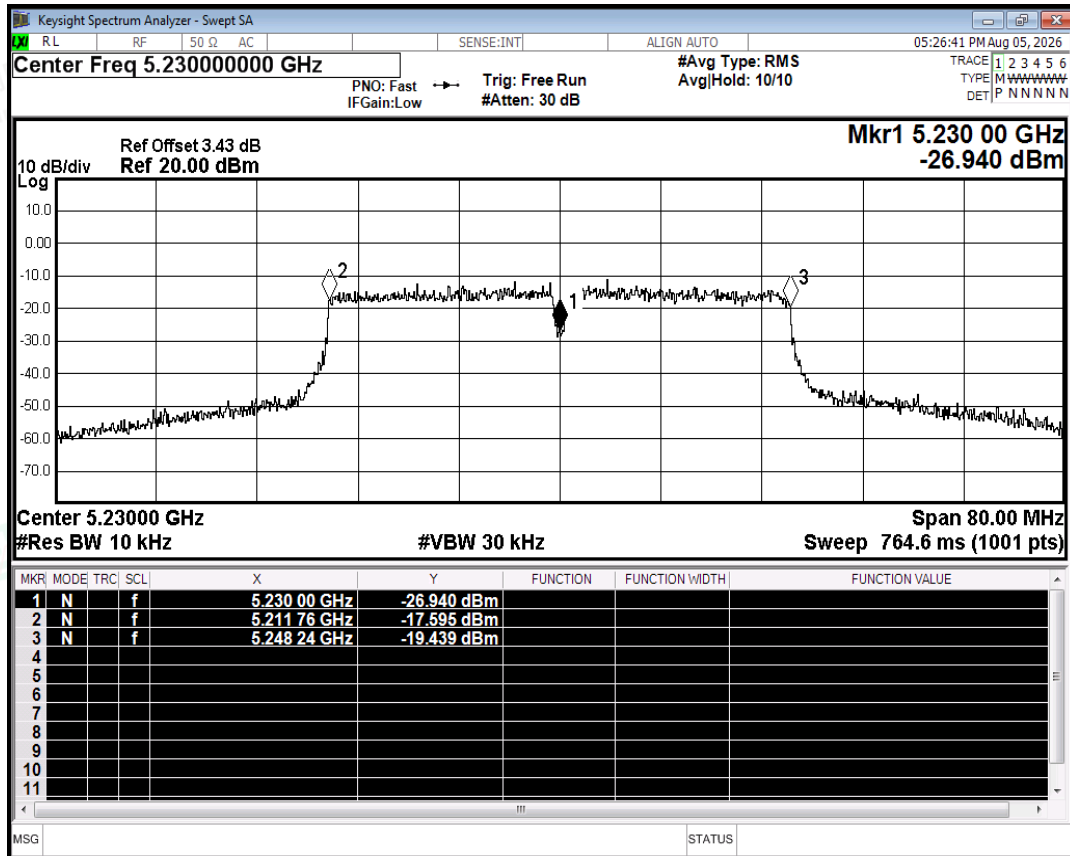
Freq. Stability NVNT ac20 5200MHz Ant1



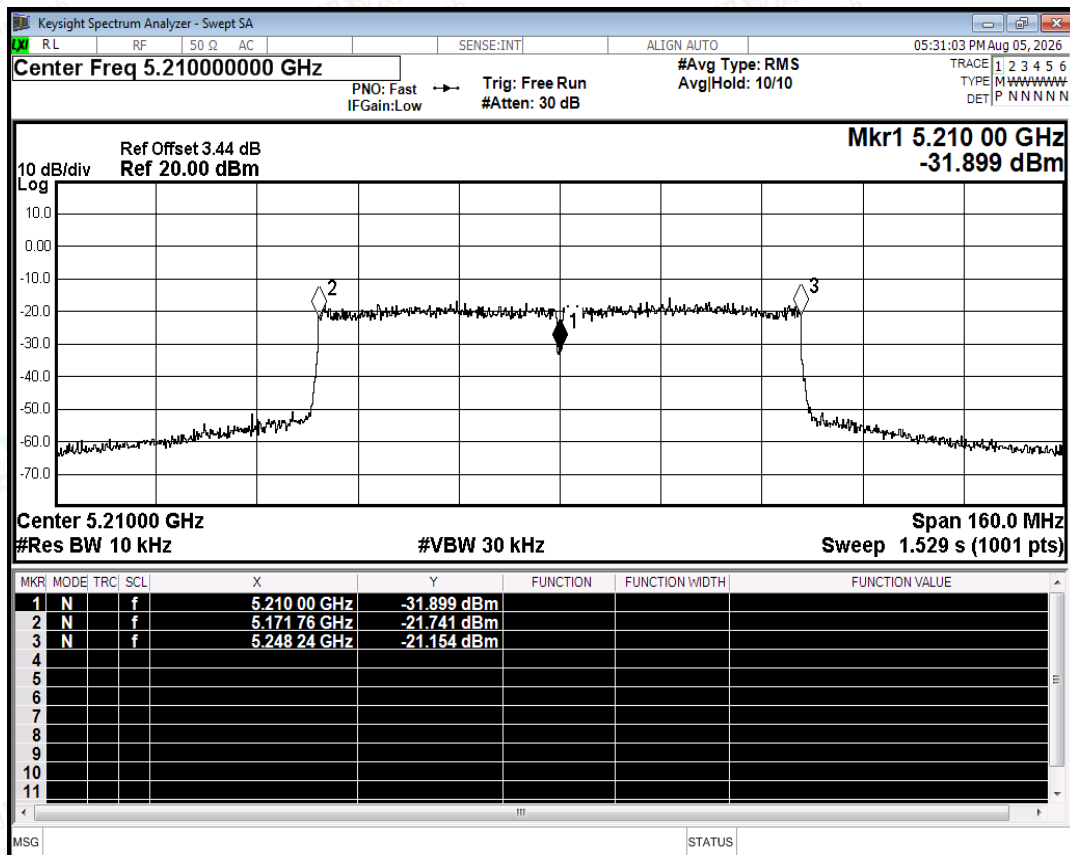
Freq. Stability NVNT ac20 5240MHz Ant1



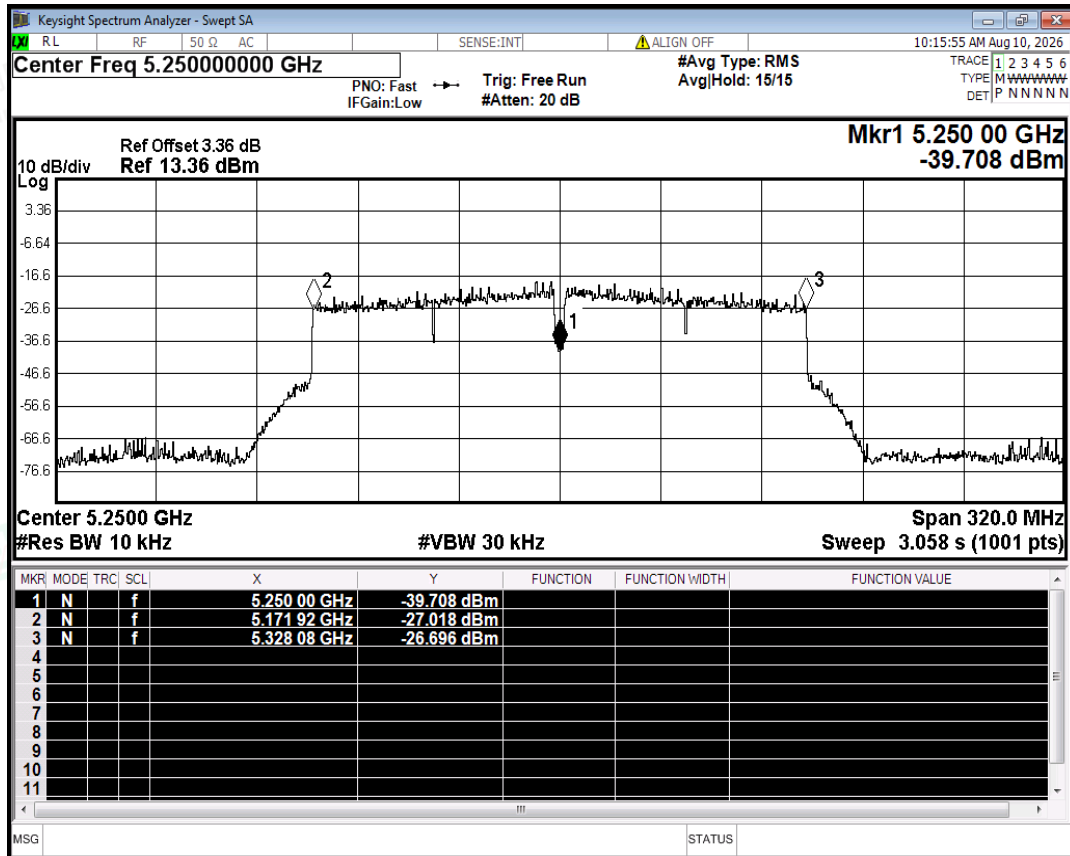
Freq. Stability NVNT ac40 5190MHz Ant1



Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1

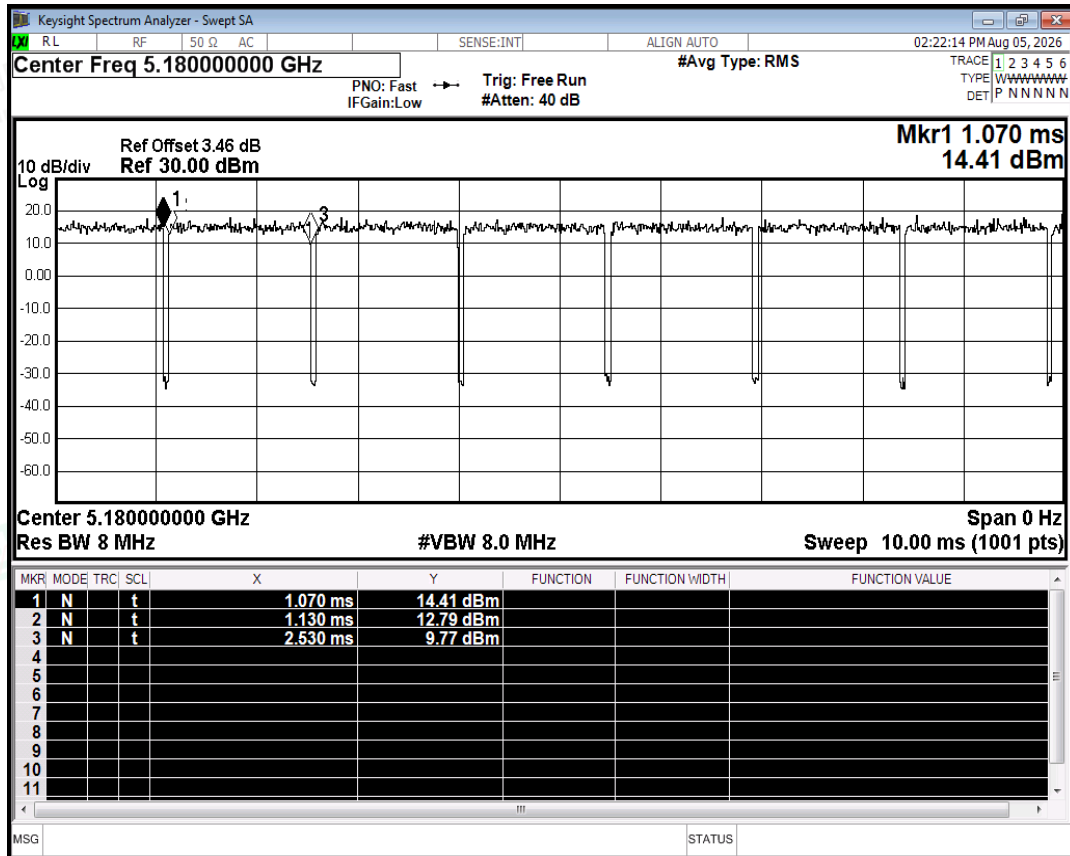


Freq. Stability NVNT ac160 5250MHz Ant1

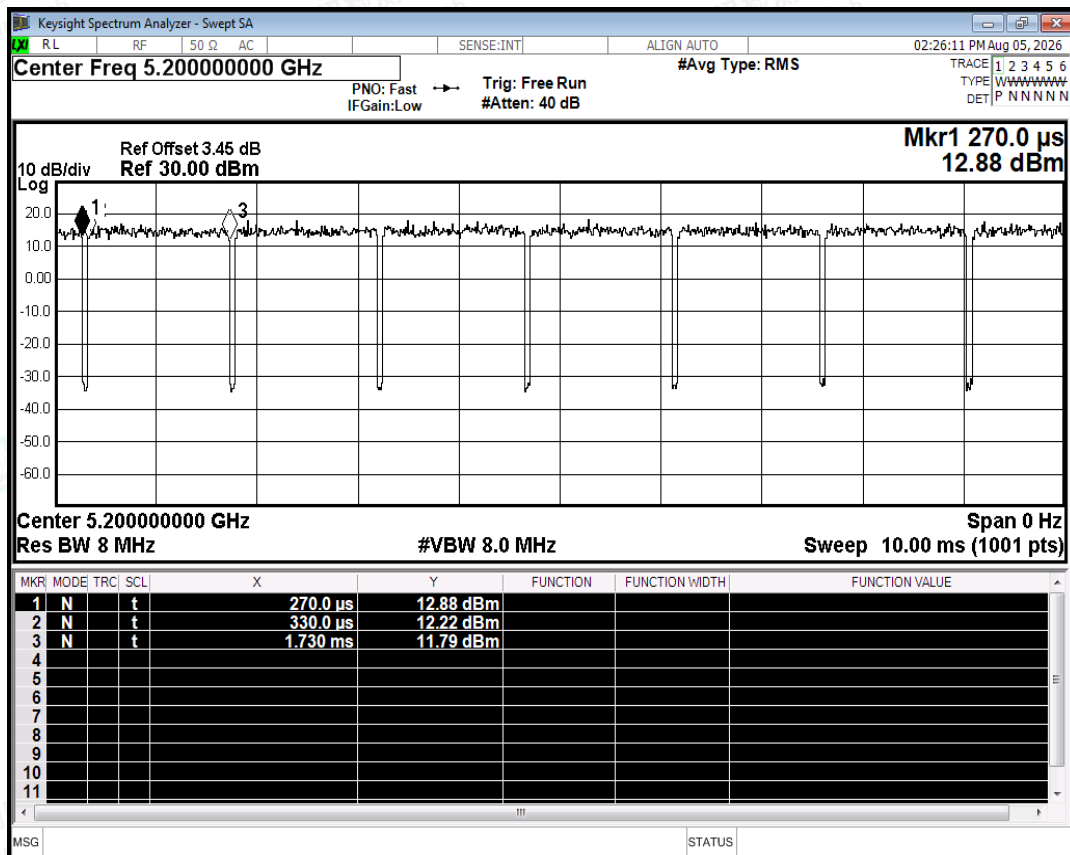


D.6 Duty Cycle

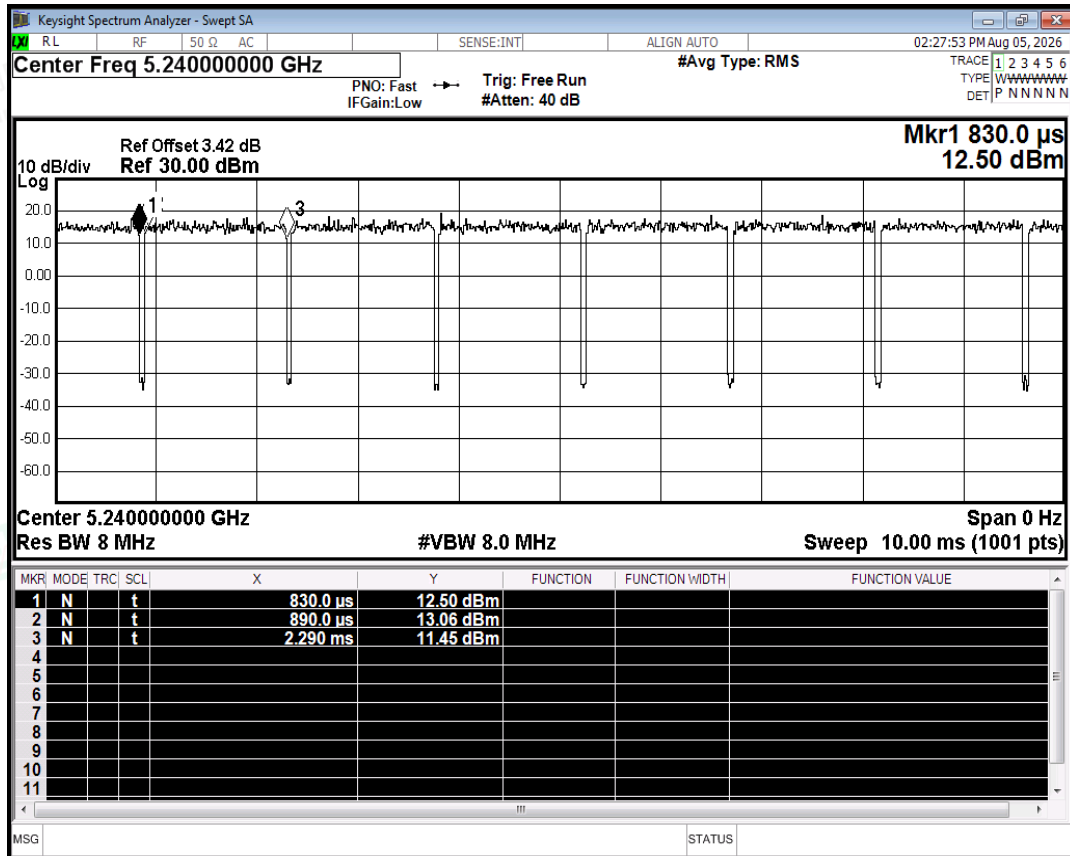
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	95.89	0.18	0.71
NVNT	a	5200	Ant1	95.89	0.18	0.71
NVNT	a	5240	Ant1	95.89	0.18	0.71
NVNT	n20	5180	Ant1	95.16	0.22	0.85
NVNT	n20	5200	Ant1	95.2	0.21	0.84
NVNT	n20	5240	Ant1	95.16	0.22	0.85
NVNT	n40	5190	Ant1	90.77	0.42	1.69
NVNT	n40	5230	Ant1	90.77	0.42	1.69
NVNT	ac20	5180	Ant1	94.4	0.25	0.85
NVNT	ac20	5200	Ant1	95.2	0.21	0.84
NVNT	ac20	5240	Ant1	95.2	0.21	0.84
NVNT	ac40	5190	Ant1	90.77	0.42	1.69
NVNT	ac40	5230	Ant1	90.91	0.41	1.67
NVNT	ac80	5210	Ant1	80.56	0.94	3.45
NVNT	ac160	5250	Ant1	78.26	1.06	5.56



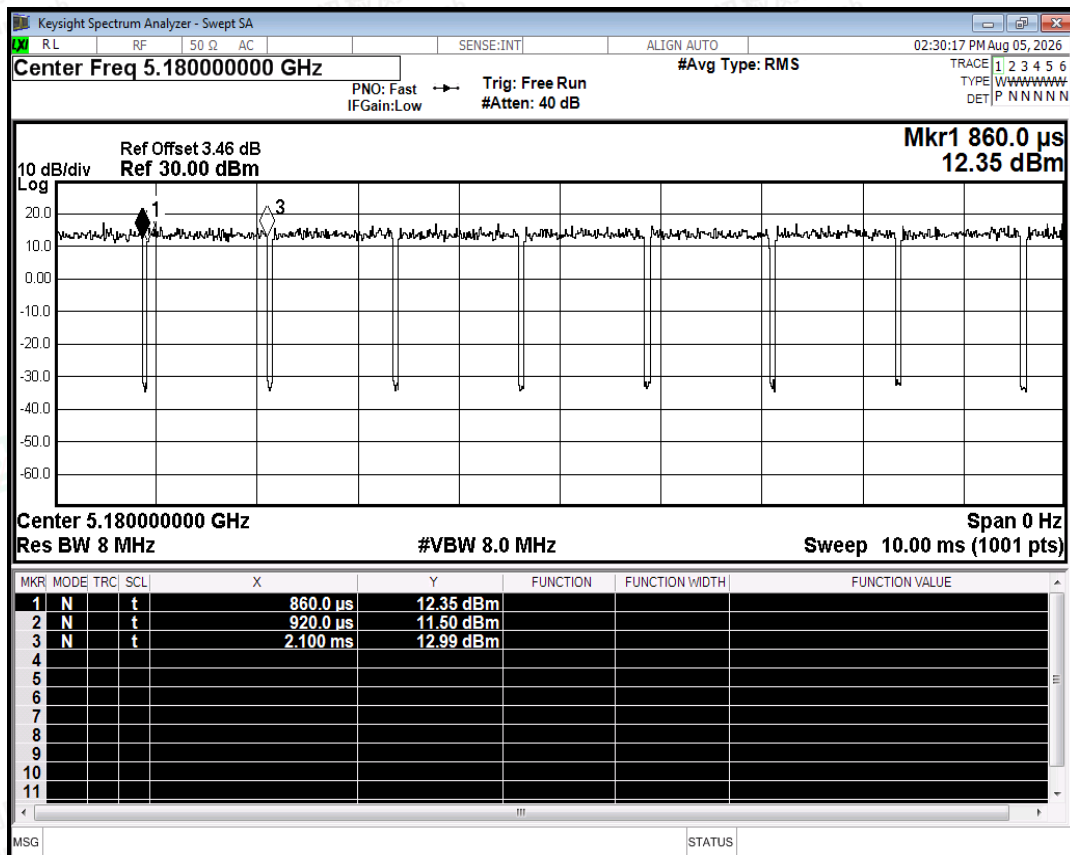
Duty Cycle NVNT a 5180MHz Ant1



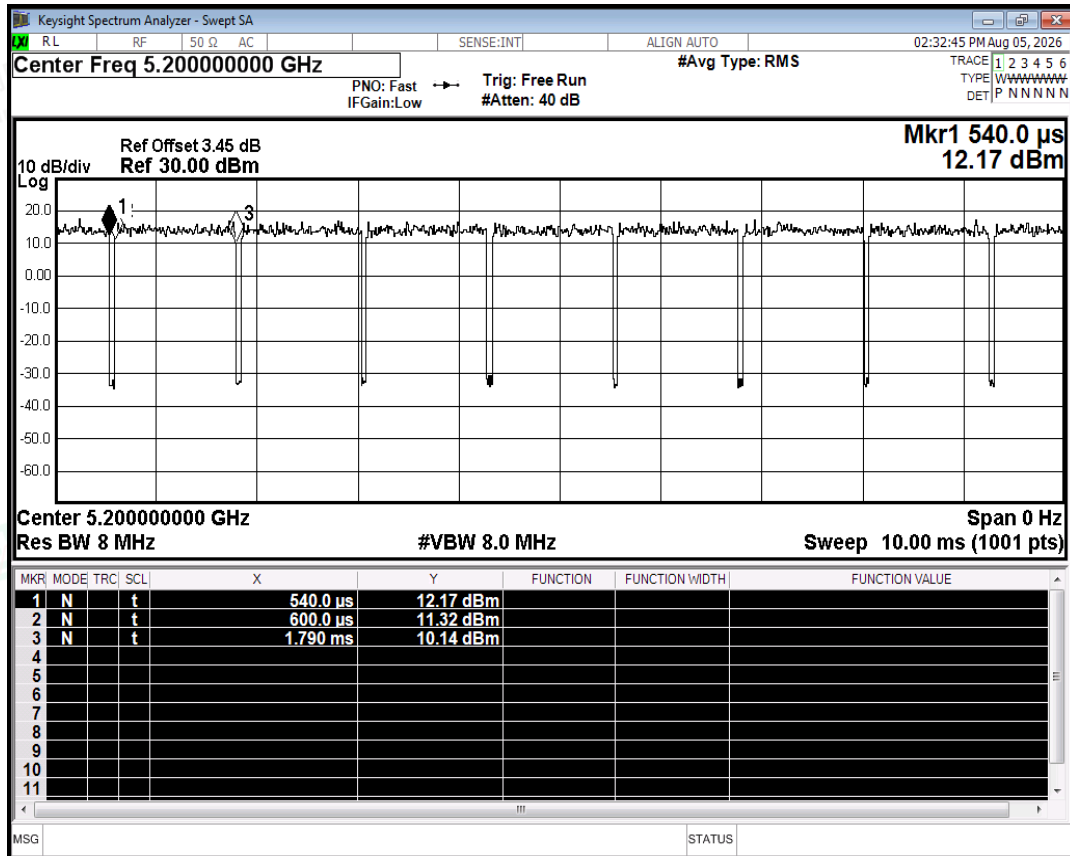
Duty Cycle NVNT a 5200MHz Ant1



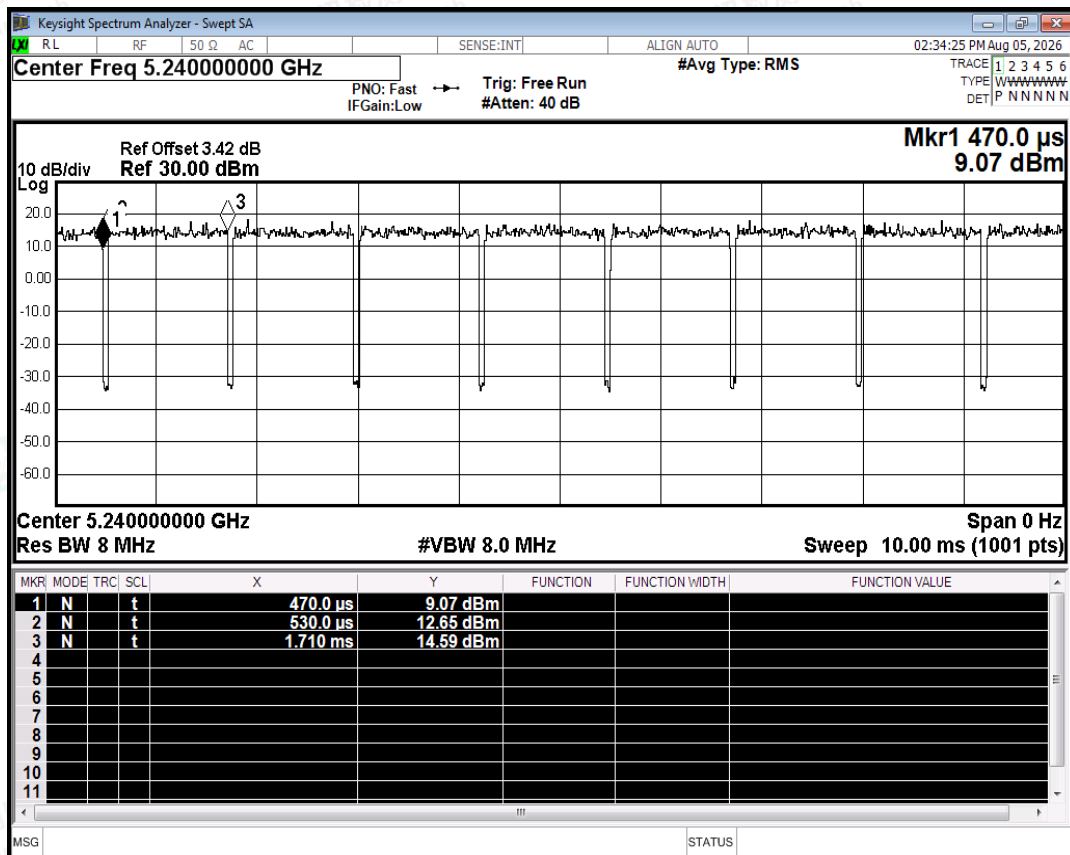
Duty Cycle NVNT a 5240MHz Ant1



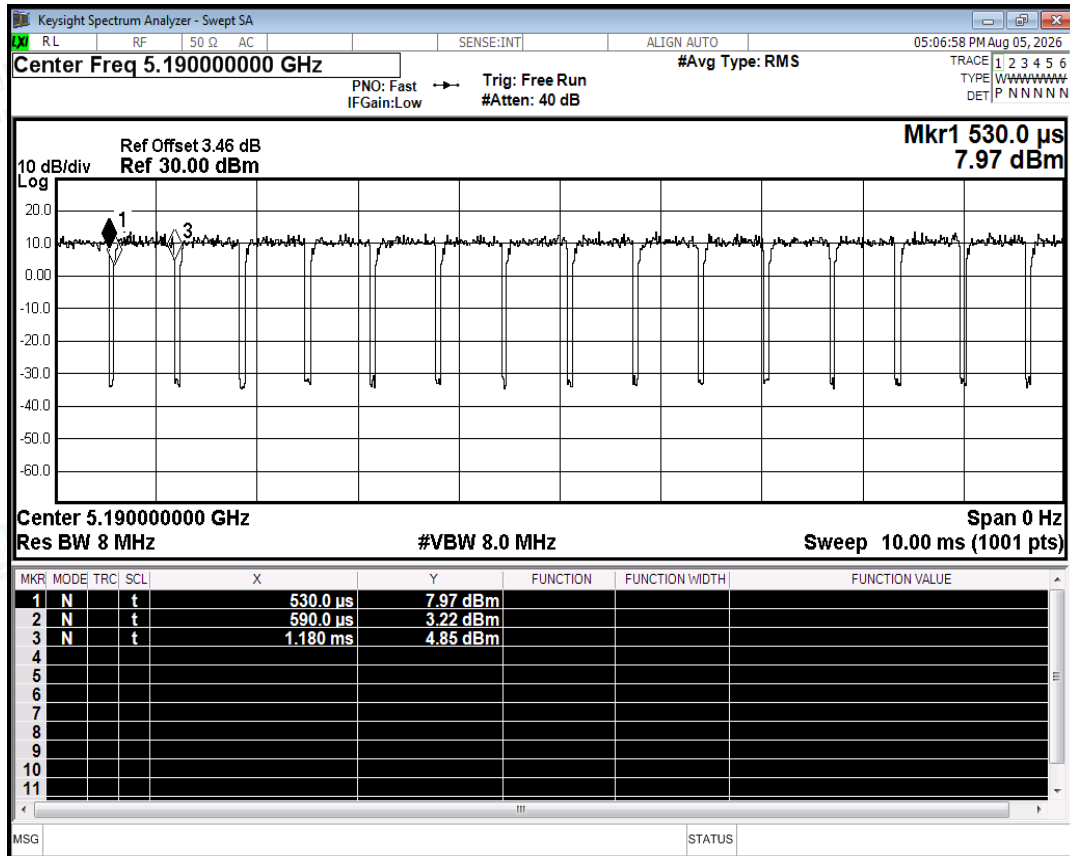
Duty Cycle NVNT n20 5180MHz Ant1



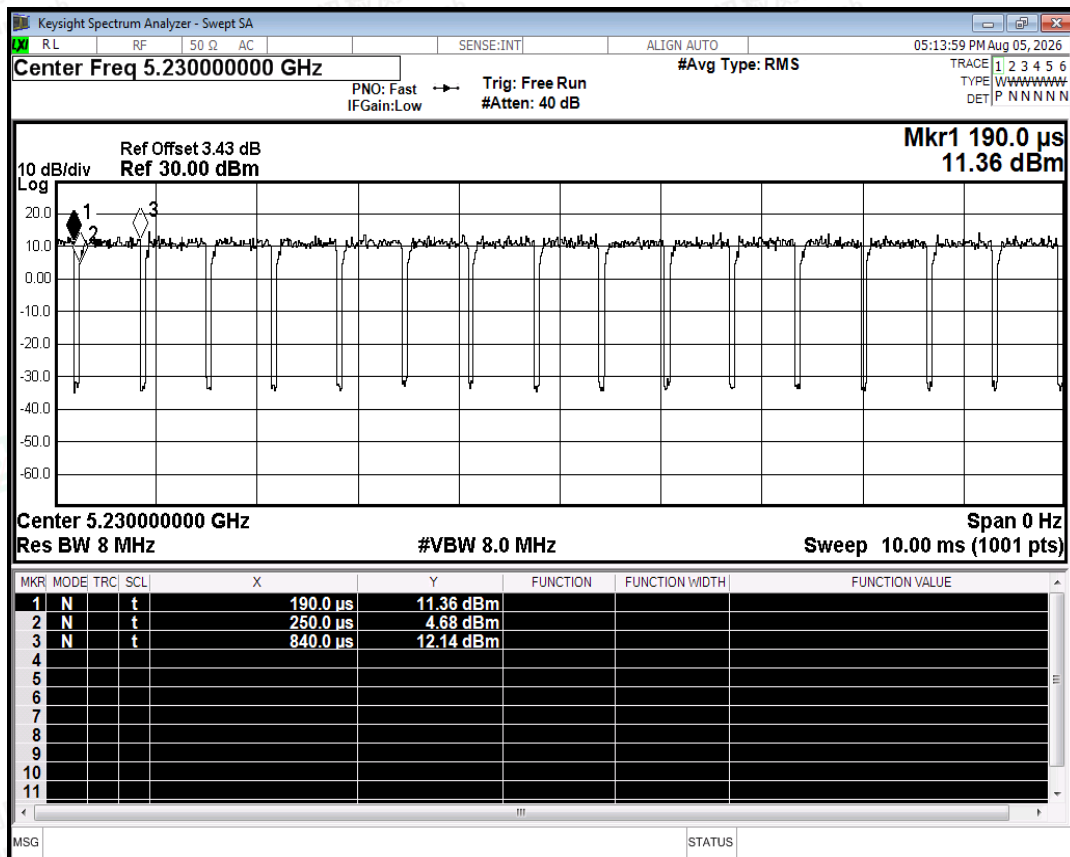
Duty Cycle NVNT n20 5200MHz Ant1



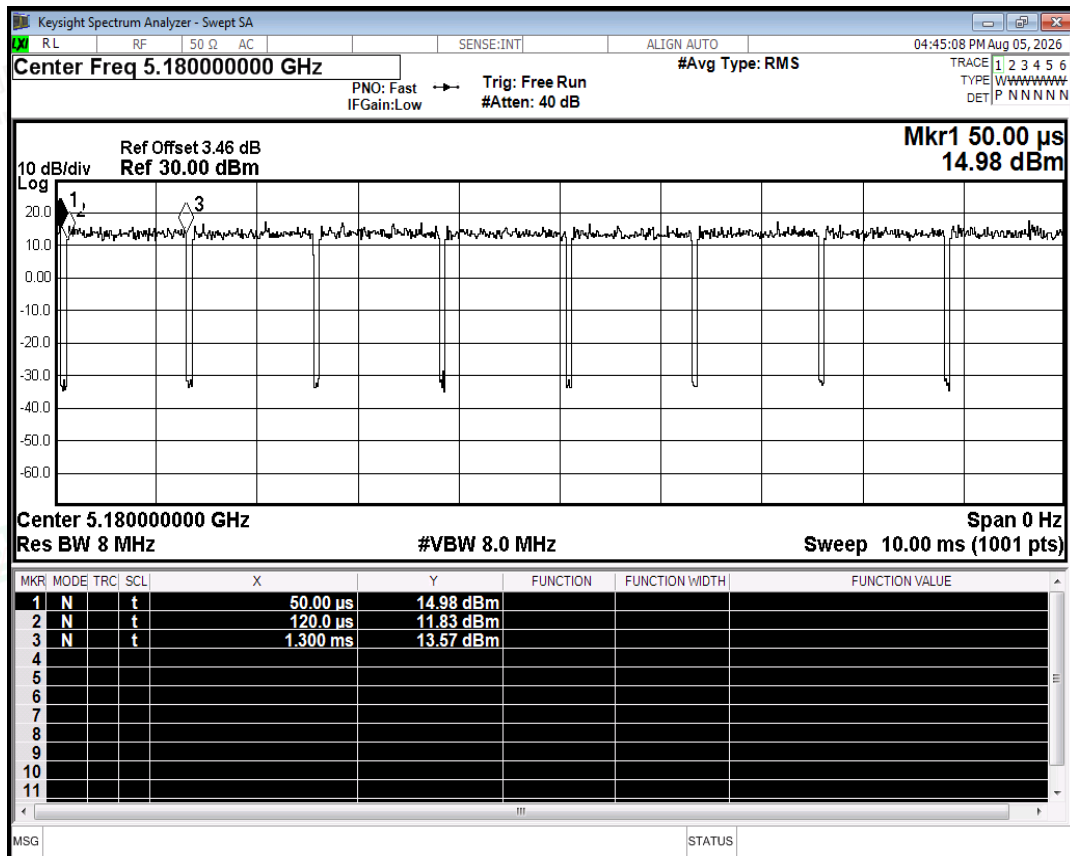
Duty Cycle NVNT n20 5240MHz Ant1



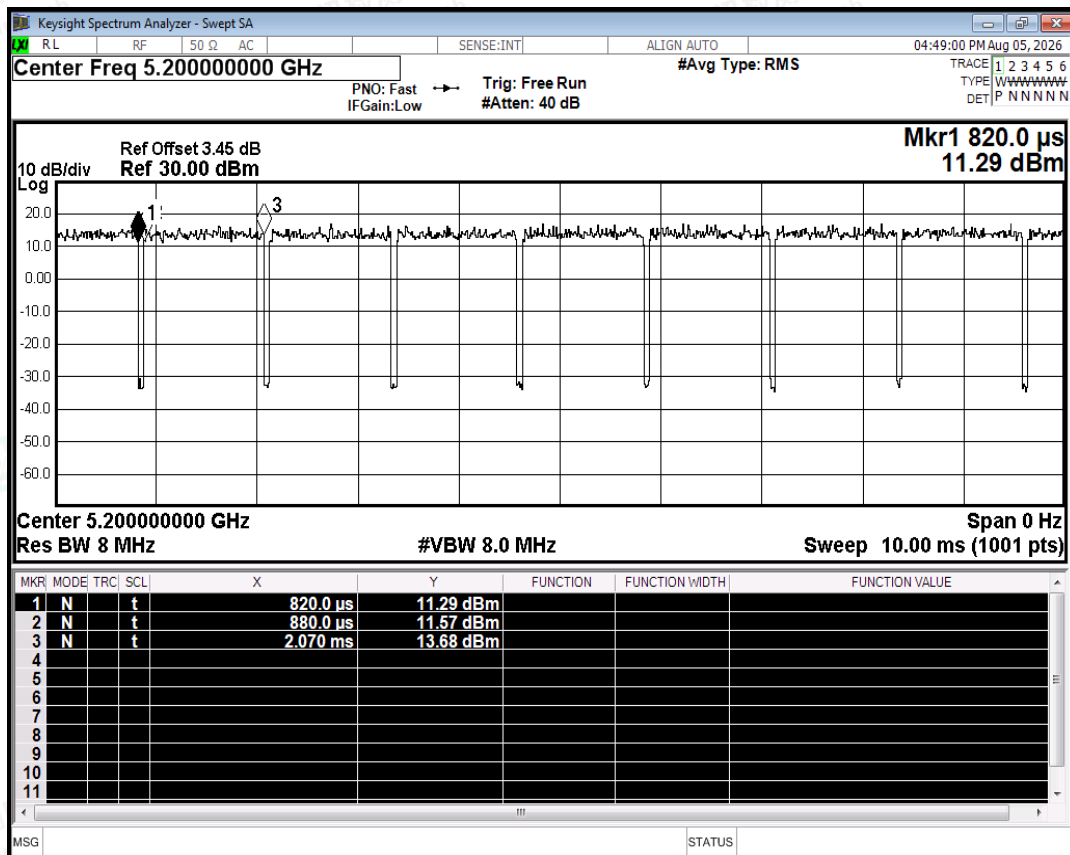
Duty Cycle NVNT n40 5190MHz Ant1



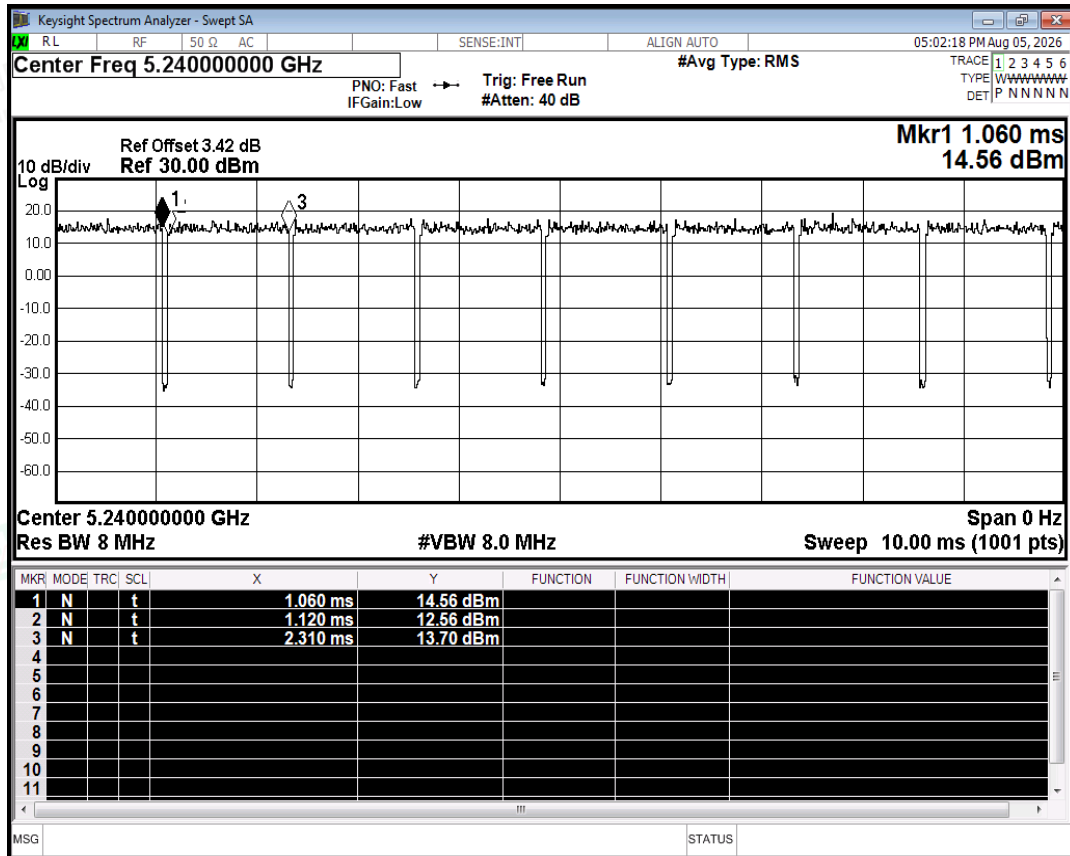
Duty Cycle NVNT n40 5230MHz Ant1



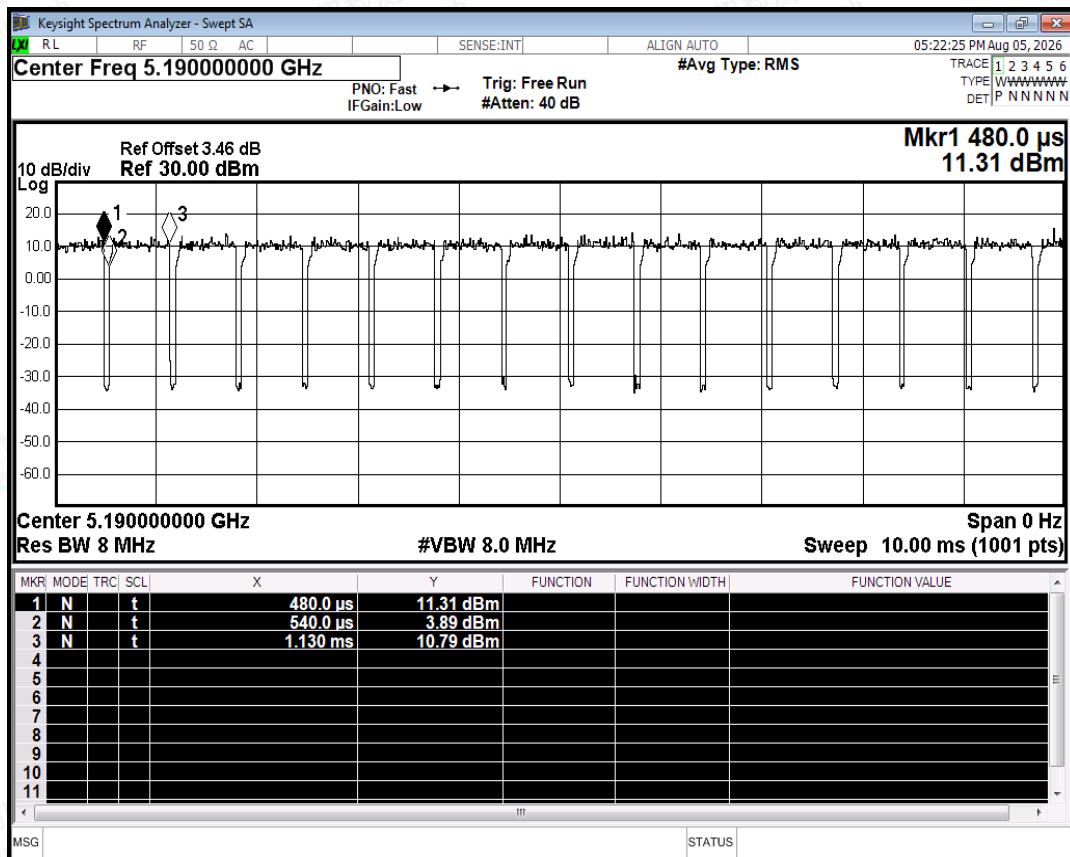
Duty Cycle NVNT ac20 5180MHz Ant1



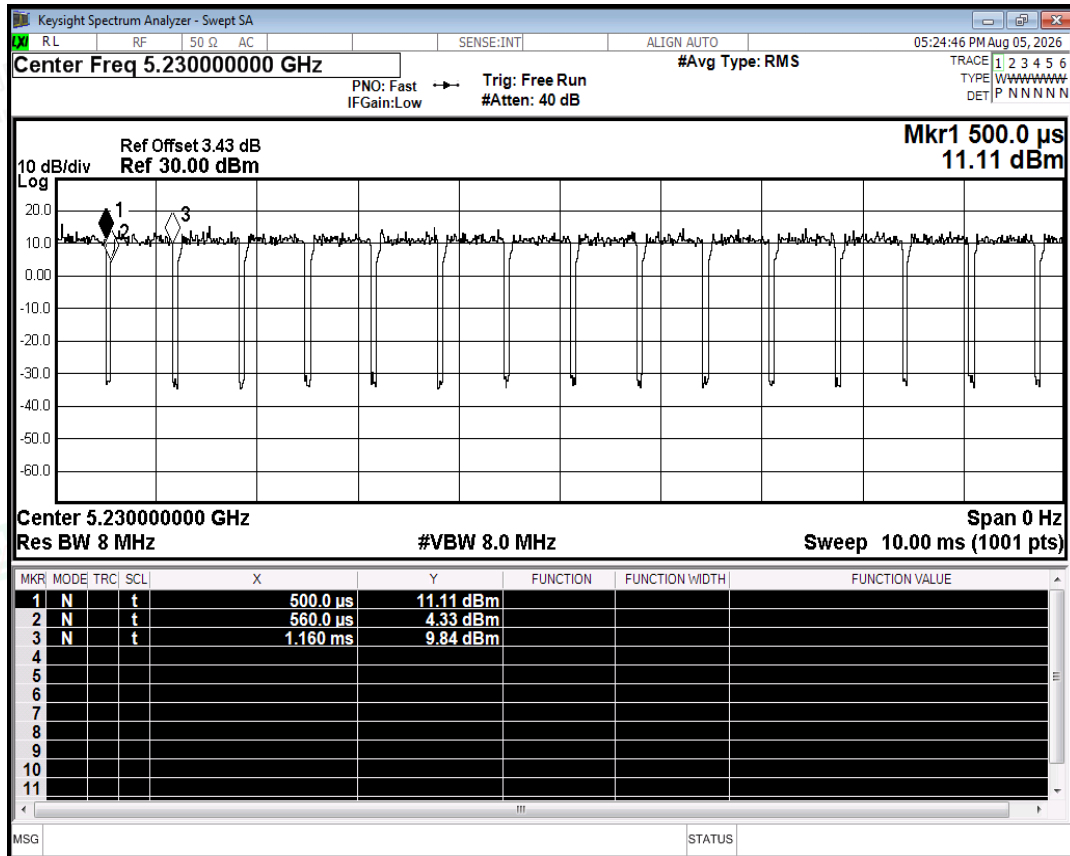
Duty Cycle NVNT ac20 5200MHz Ant1



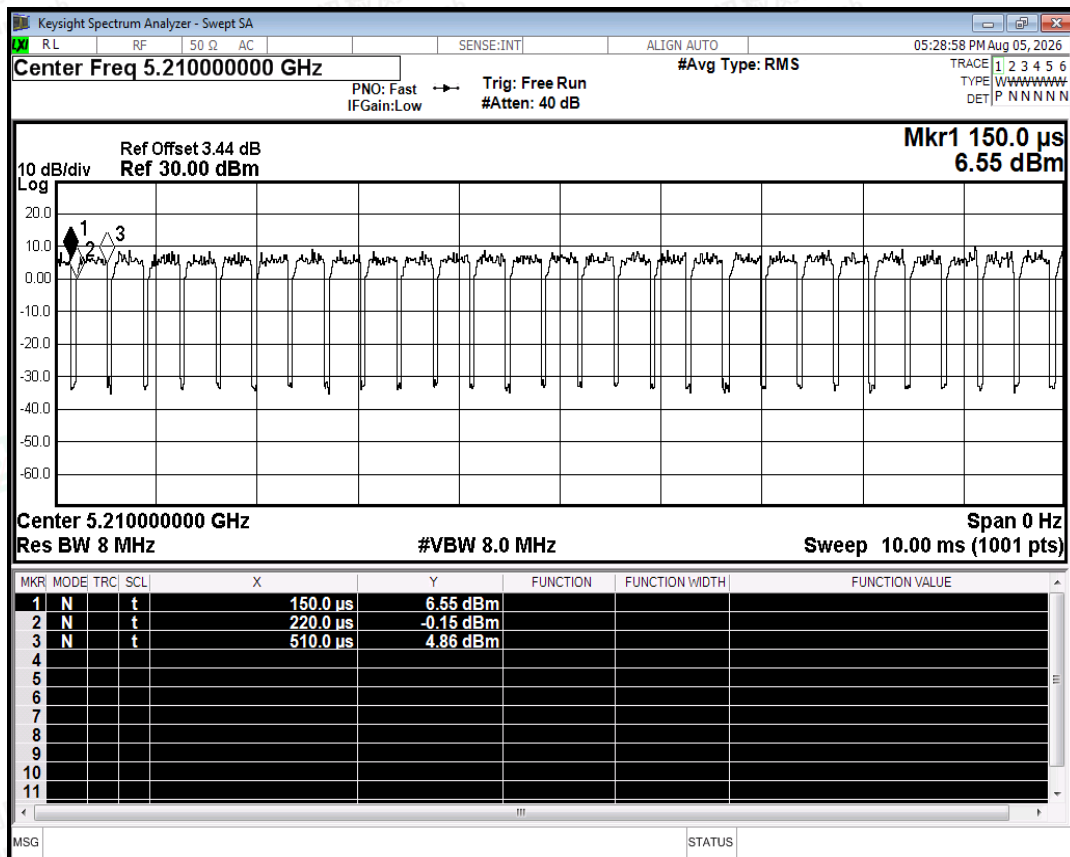
Duty Cycle NVNT ac20 5240MHz Ant1



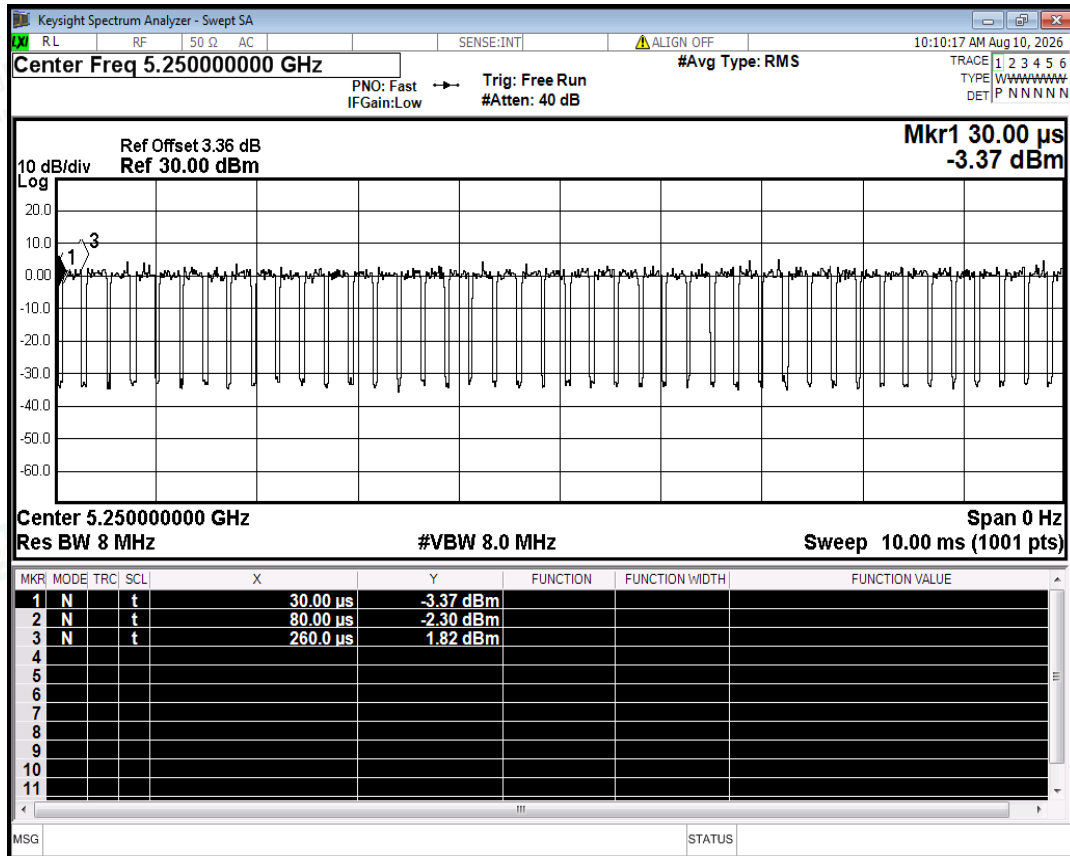
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac160 5250MHz Ant1