Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Projector

Test Model: H6

Environmental Conditions

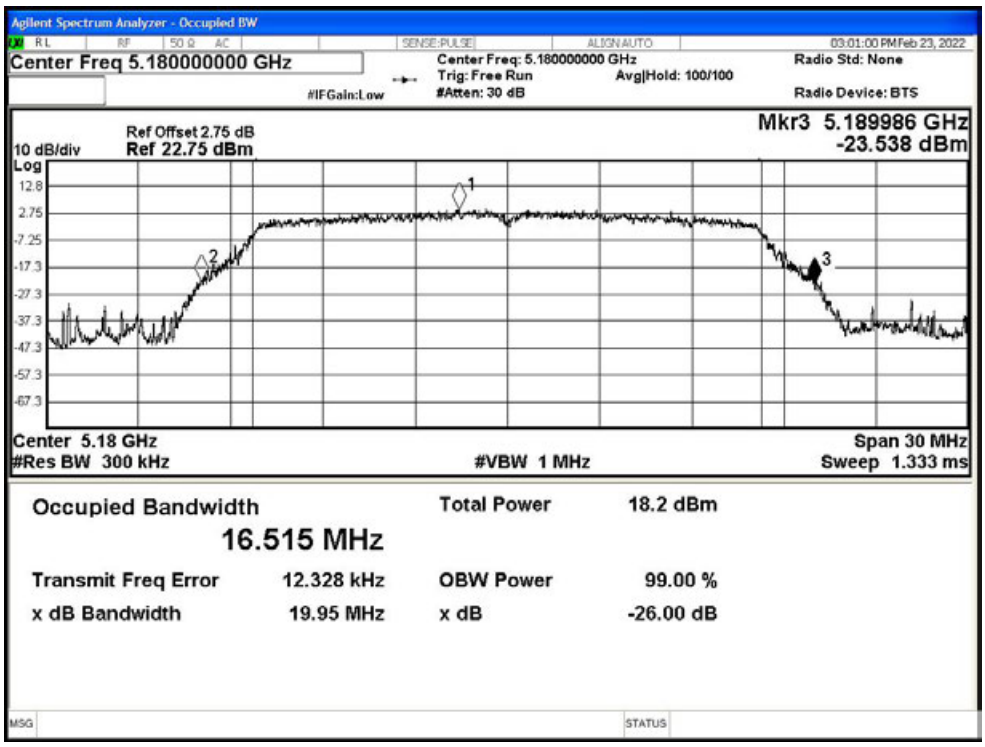
Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan

D.1 -26dB Bandwidth

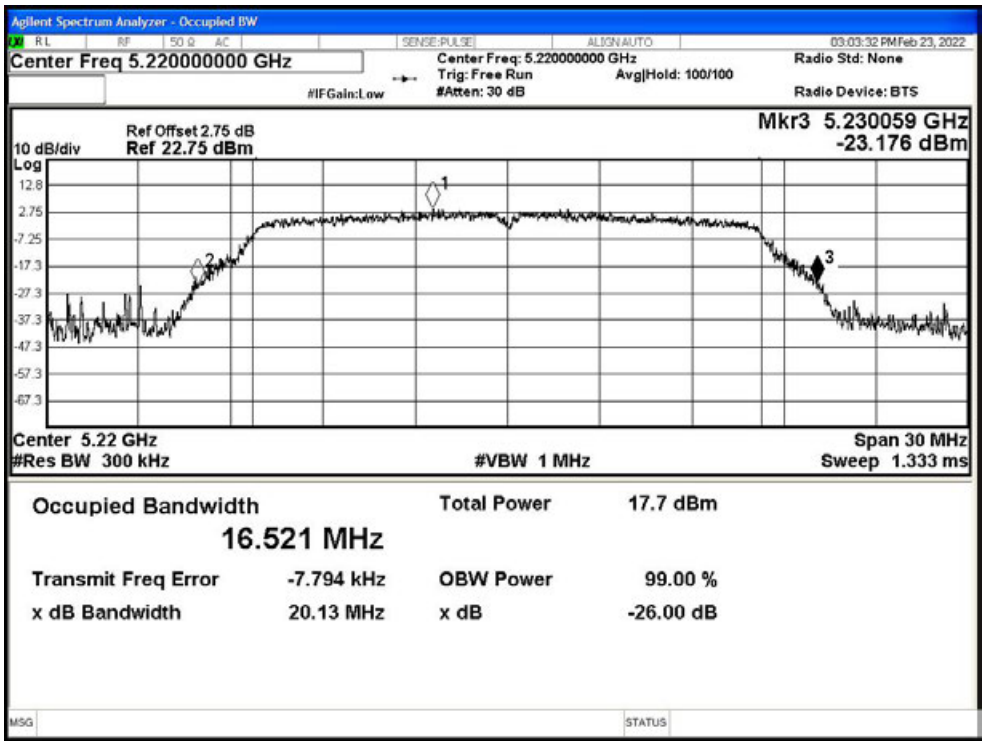
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit (MHz)	Verdict
NVNT	a	5180	Ant1	19.947	---	Pass
NVNT	a	5220	Ant1	20.133	---	Pass
NVNT	a	5240	Ant1	19.957	---	Pass
NVNT	n20	5180	Ant1	20.375	---	Pass
NVNT	n20	5220	Ant1	20.272	---	Pass
NVNT	n20	5240	Ant1	20.282	---	Pass
NVNT	n40	5190	Ant1	39.711	---	Pass
NVNT	n40	5230	Ant1	39.859	---	Pass
NVNT	ac20	5180	Ant1	20.34	---	Pass
NVNT	ac20	5220	Ant1	20.298	---	Pass
NVNT	ac20	5240	Ant1	20.254	---	Pass
NVNT	ac40	5190	Ant1	40.057	---	Pass
NVNT	ac40	5230	Ant1	40.1	---	Pass
NVNT	ac80	5210	Ant1	79.294	---	Pass

Test Graphs

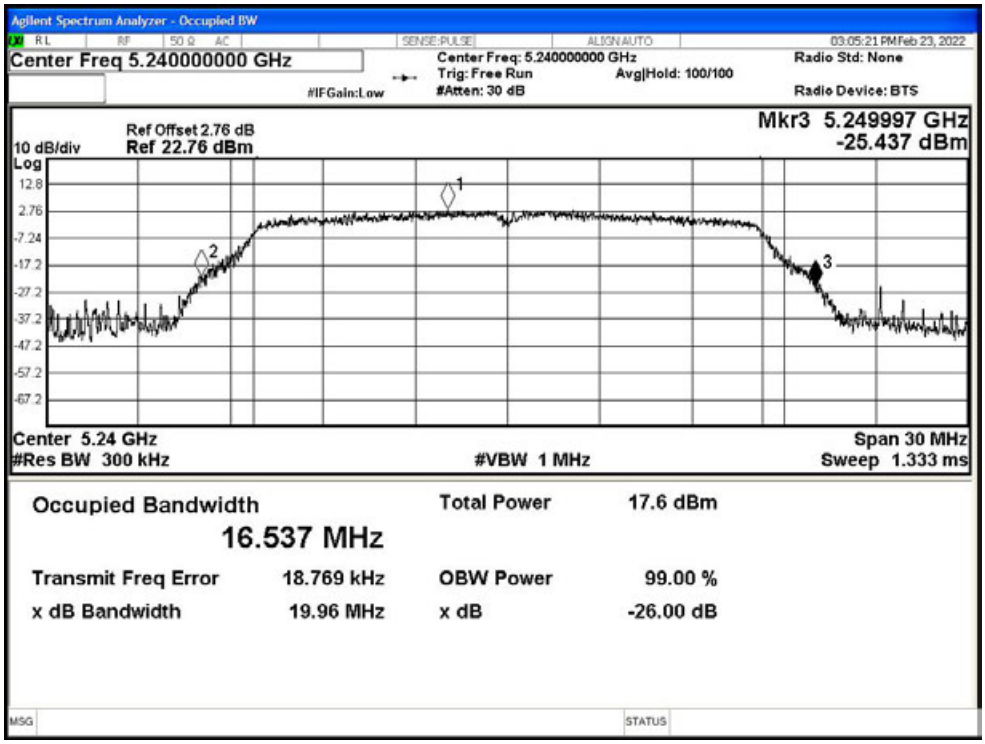
-26dB Bandwidth NVNT a 5180MHz Ant1



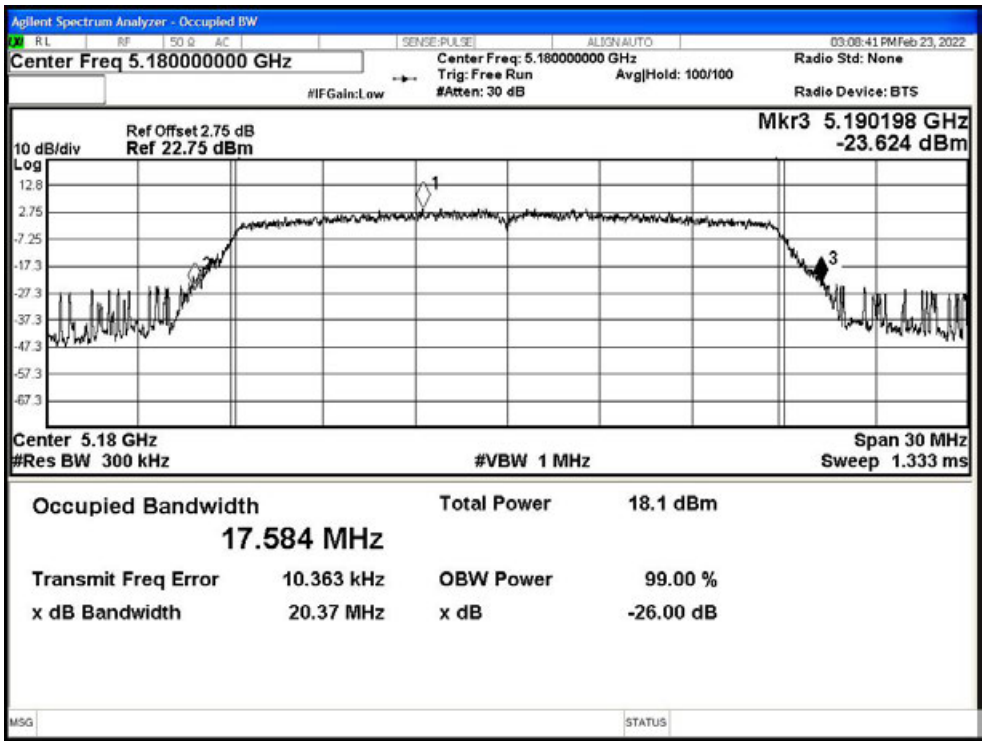
-26dB Bandwidth NVNT a 5220MHz Ant1



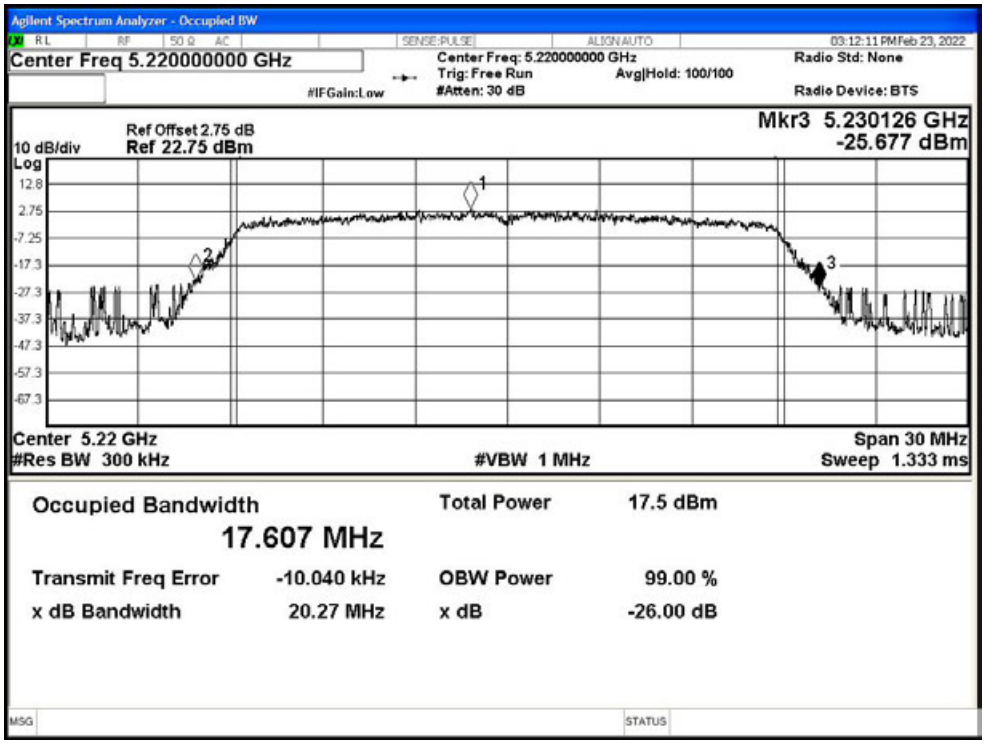
-26dB Bandwidth NVNT a 5240MHz Ant1



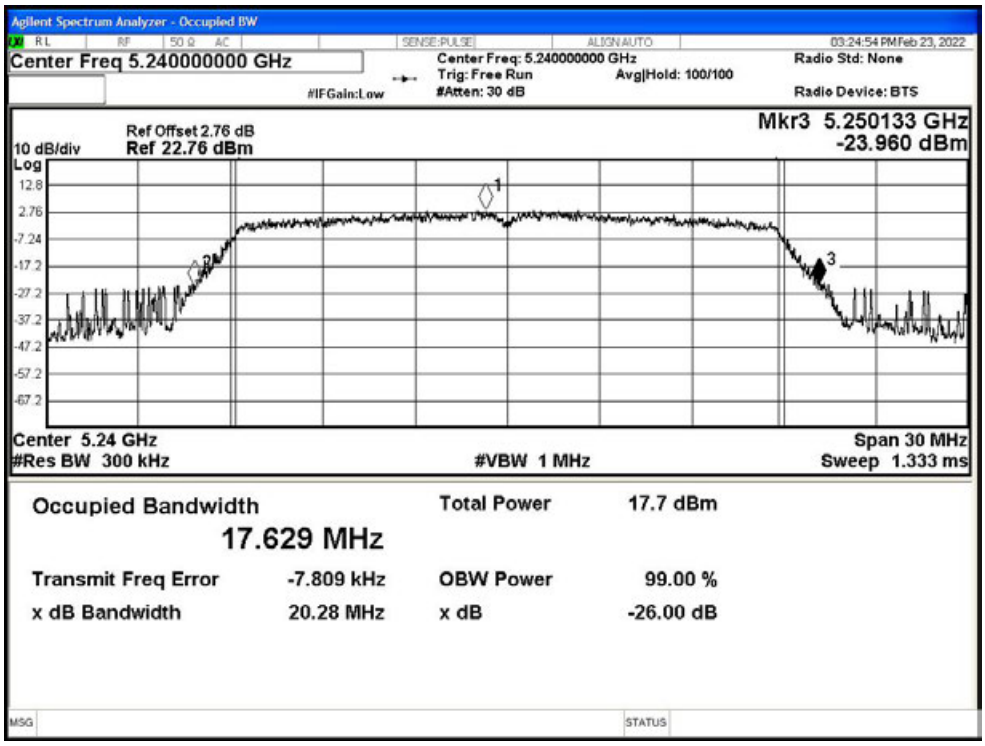
-26dB Bandwidth NVNT n20 5180MHz Ant1



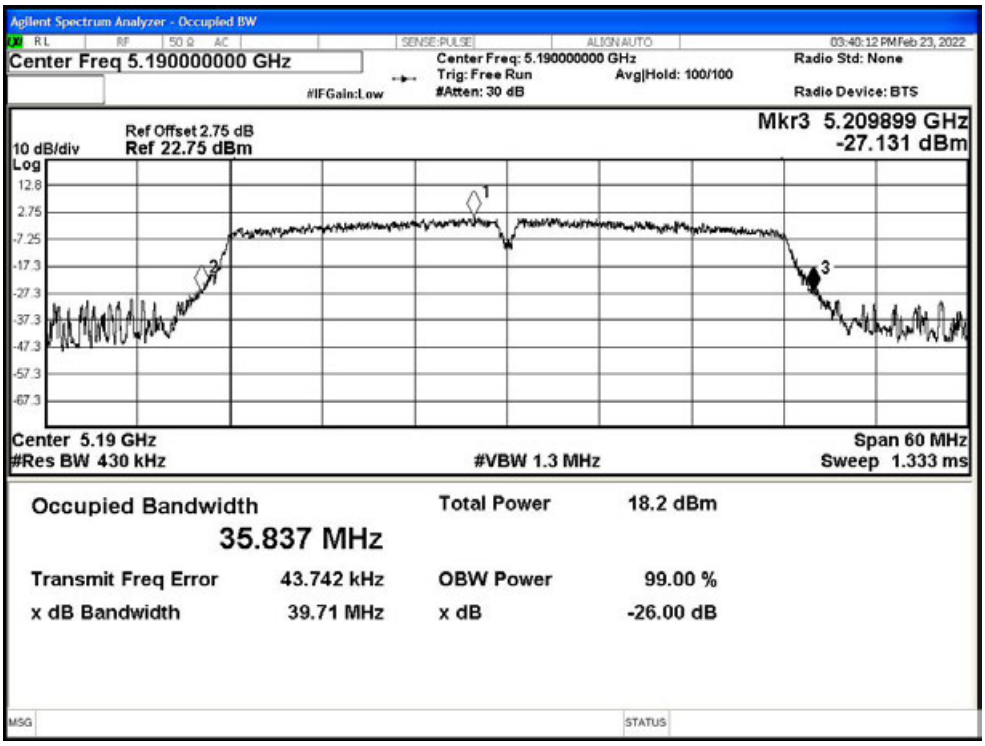
-26dB Bandwidth NVNT n20 5220MHz Ant1



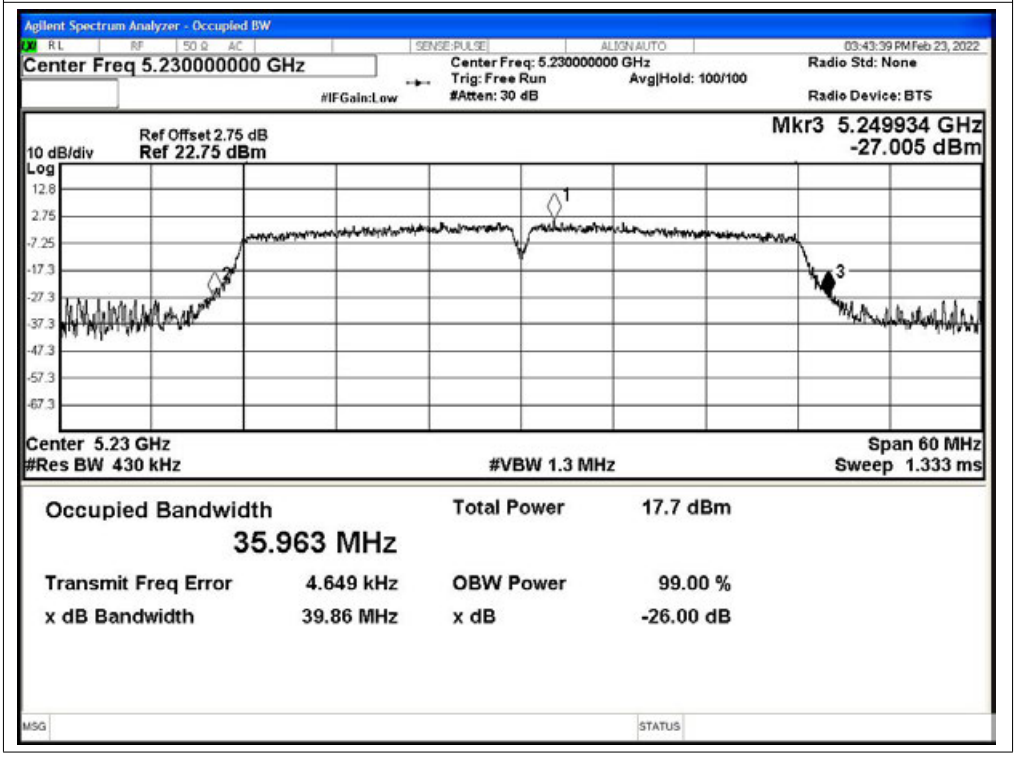
-26dB Bandwidth NVNT n20 5240MHz Ant1



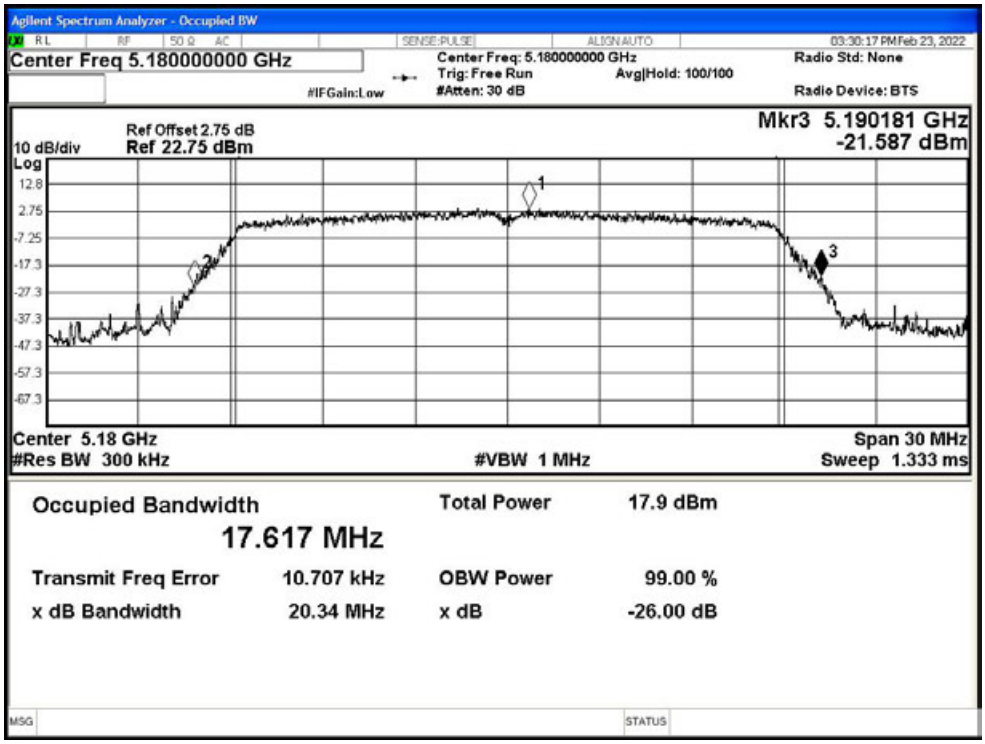
-26dB Bandwidth NVNT n40 5190MHz Ant1



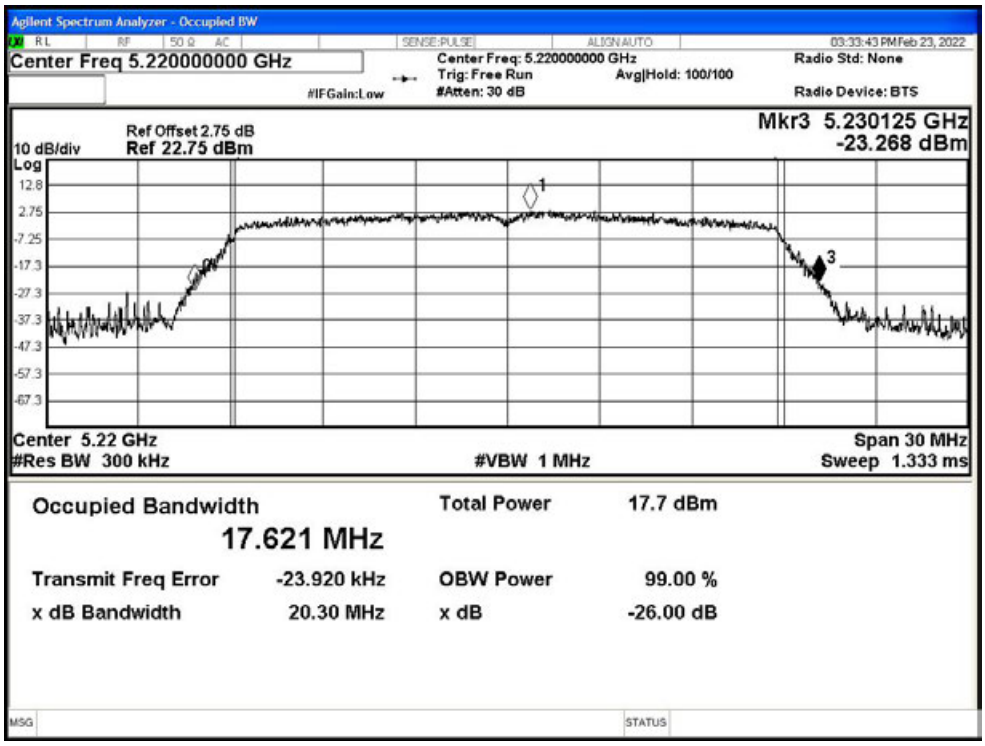
-26dB Bandwidth NVNT n40 5230MHz Ant1



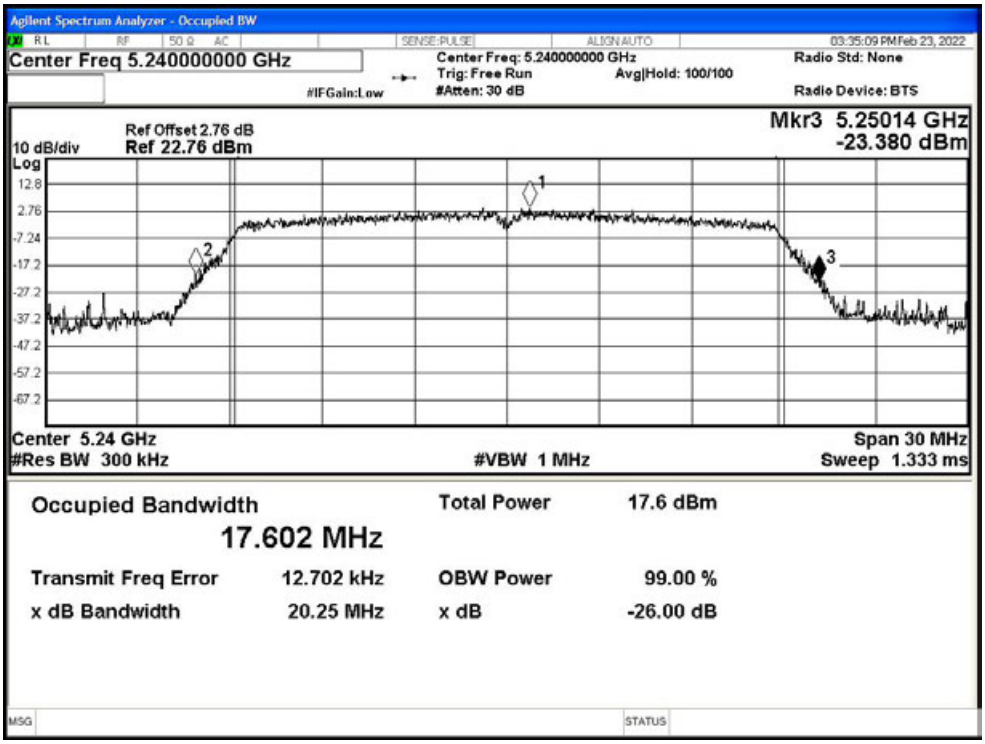
-26dB Bandwidth NVNT ac20 5180MHz Ant1



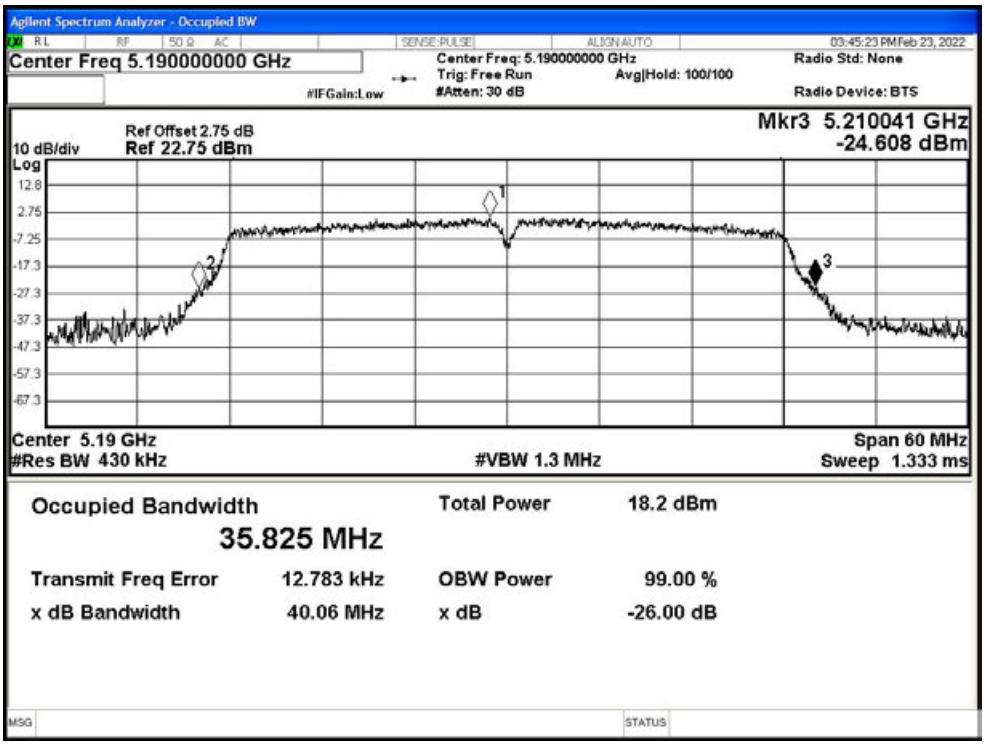
-26dB Bandwidth NVNT ac20 5220MHz Ant1



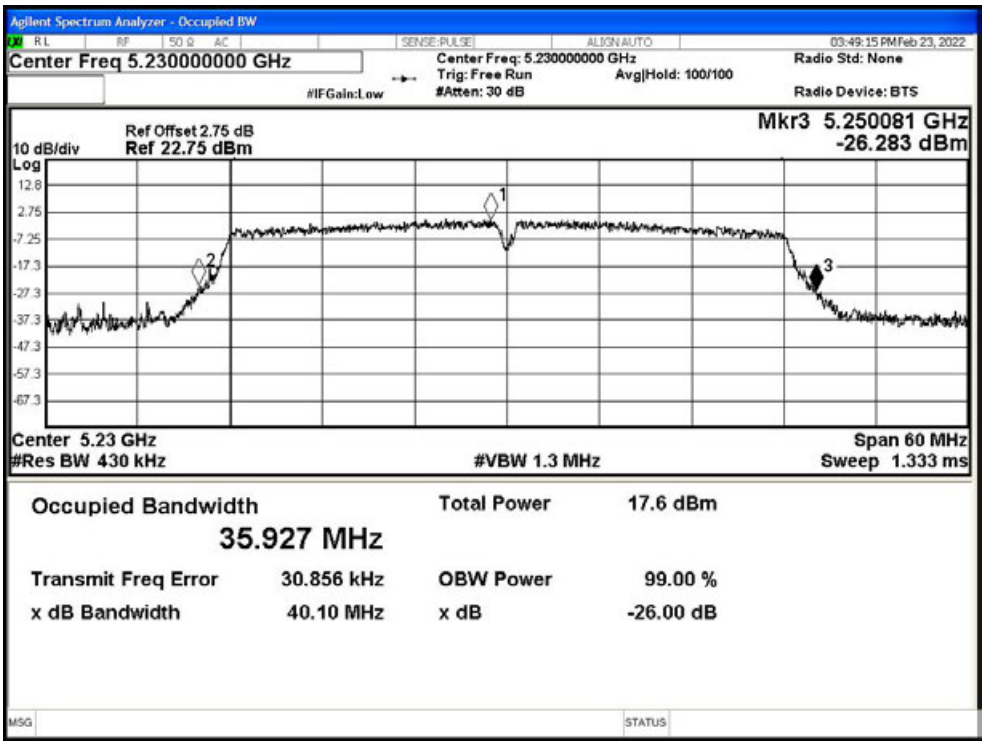
-26dB Bandwidth NVNT ac20 5240MHz Ant1



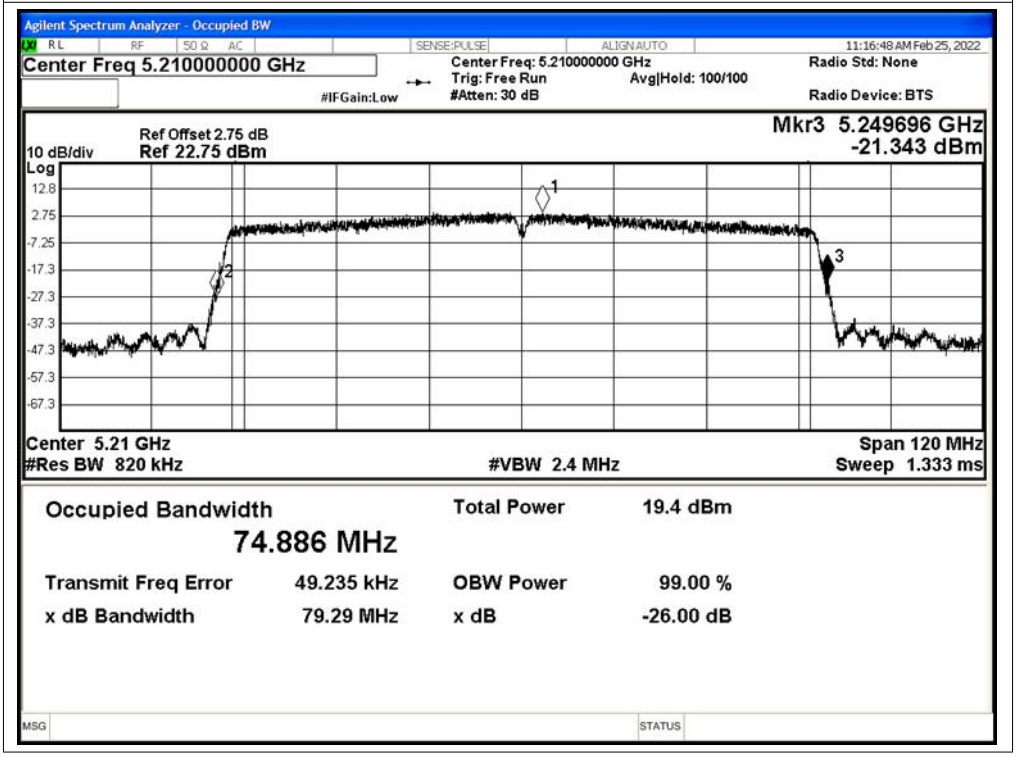
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



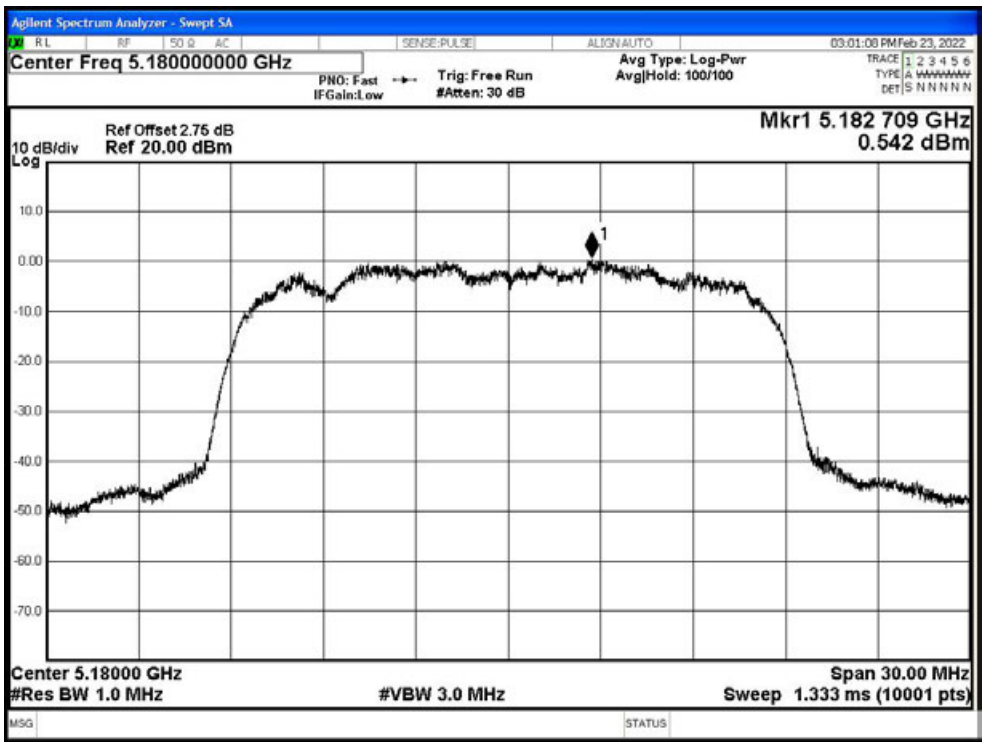
D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.41	0.13	12.54	≤23.98	Pass
NVNT	a	5220	Ant1	12.06	0.13	12.19	≤23.98	Pass
NVNT	a	5240	Ant1	11.98	0.13	12.11	≤23.98	Pass
NVNT	n20	5180	Ant1	12.45	0.14	12.59	≤23.98	Pass
NVNT	n20	5220	Ant1	11.83	0.14	11.97	≤23.98	Pass
NVNT	n20	5240	Ant1	12.02	0.14	12.16	≤23.98	Pass
NVNT	n40	5190	Ant1	12.19	0.27	12.46	≤23.98	Pass
NVNT	n40	5230	Ant1	11.65	0.27	11.92	≤23.98	Pass
NVNT	ac20	5180	Ant1	12.32	0.14	12.46	≤23.98	Pass
NVNT	ac20	5220	Ant1	11.8	0.14	11.94	≤23.98	Pass
NVNT	ac20	5240	Ant1	11.88	0.14	12.02	≤23.98	Pass
NVNT	ac40	5190	Ant1	12.34	0.27	12.61	≤23.98	Pass
NVNT	ac40	5230	Ant1	11.68	0.28	11.96	≤23.98	Pass
NVNT	ac80	5210	Ant1	11.27	0.54	11.81	≤23.98	Pass

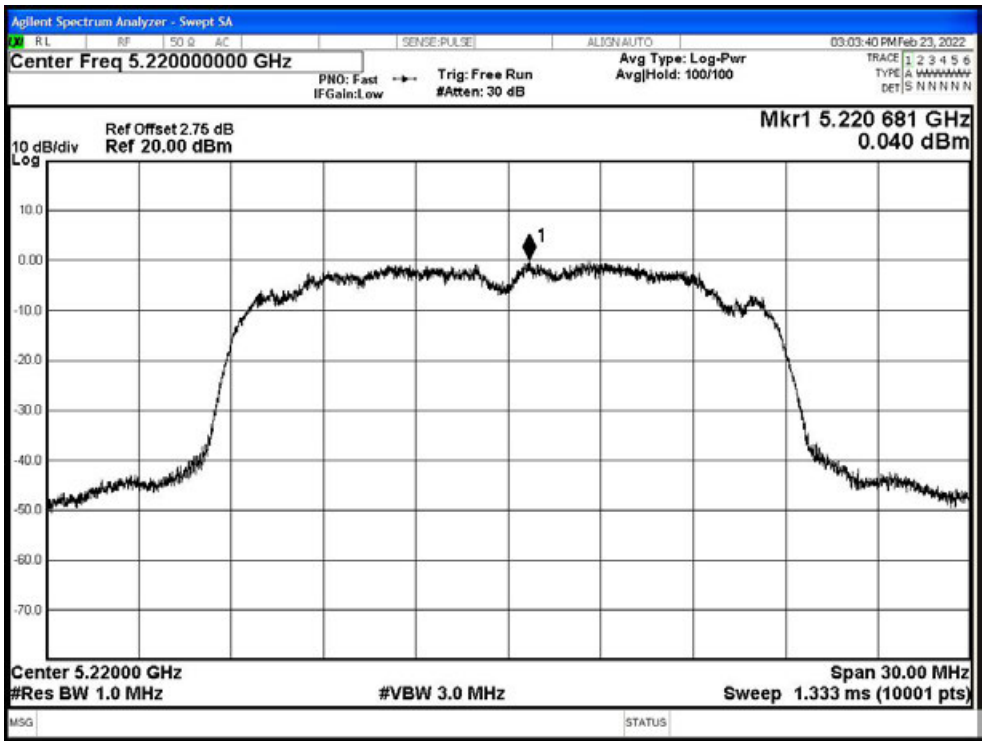
D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	0.54	0.13	0.67	≤11	Pass
NVNT	a	5220	Ant1	0.04	0.13	0.17	≤11	Pass
NVNT	a	5240	Ant1	-0.66	0.13	-0.53	≤11	Pass
NVNT	n20	5180	Ant1	-0.41	0.14	-0.27	≤11	Pass
NVNT	n20	5220	Ant1	-0.22	0.14	-0.08	≤11	Pass
NVNT	n20	5240	Ant1	-0.07	0.14	0.07	≤11	Pass
NVNT	n40	5190	Ant1	-4.41	0.27	-4.14	≤11	Pass
NVNT	n40	5230	Ant1	-4.63	4.77	0.14	≤11	Pass
NVNT	ac20	5180	Ant1	-0.14	0.14	0	≤11	Pass
NVNT	ac20	5220	Ant1	-0.44	0.14	-0.3	≤11	Pass
NVNT	ac20	5240	Ant1	-0.82	0.14	-0.68	≤11	Pass
NVNT	ac40	5190	Ant1	-4.43	0.27	-4.16	≤11	Pass
NVNT	ac40	5230	Ant1	-3.95	0.28	-3.67	≤11	Pass
NVNT	ac80	5210	Ant1	-9.33	0.54	-8.79	≤11	Pass

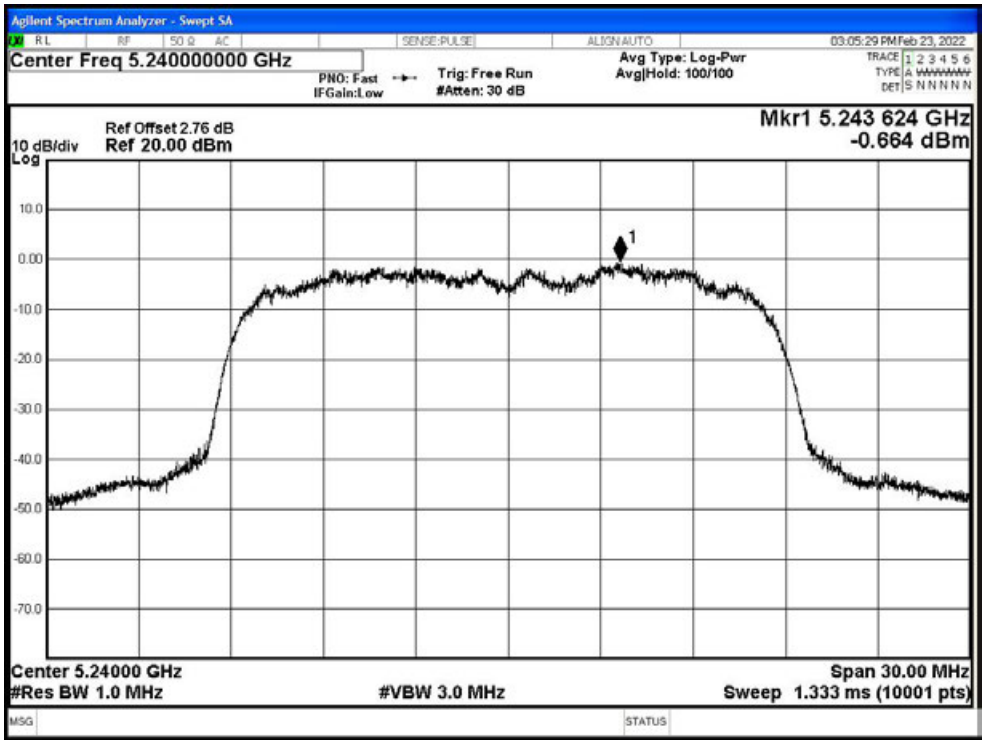
Test Graphs
PSD NVNT a 5180MHz Ant1



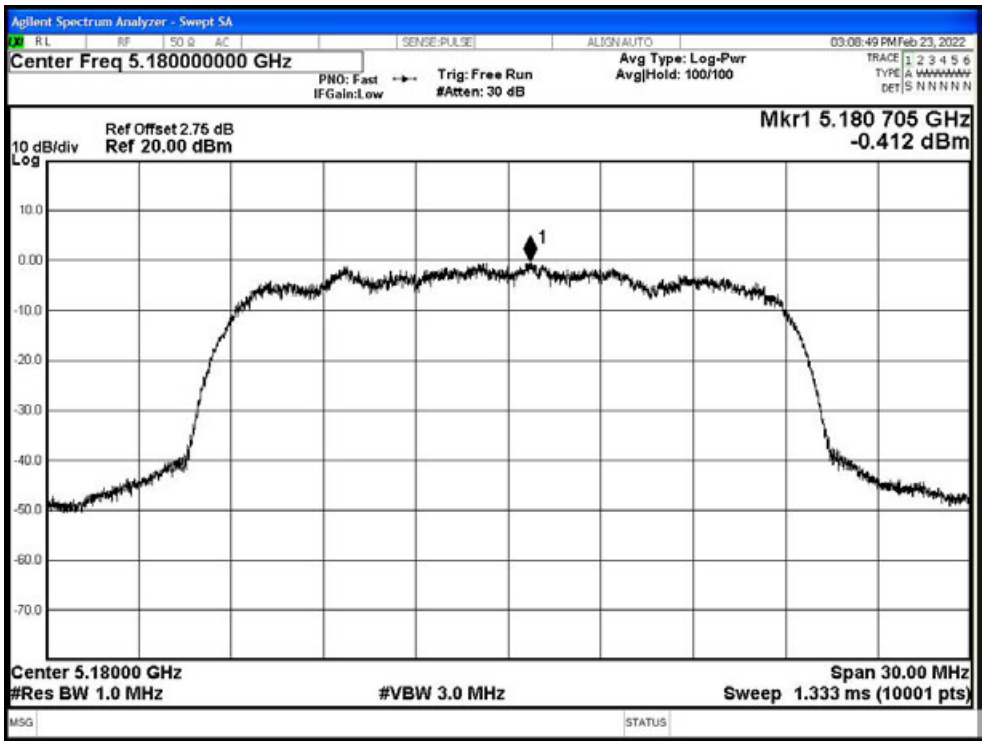
PSD NVNT a 5220MHz Ant1



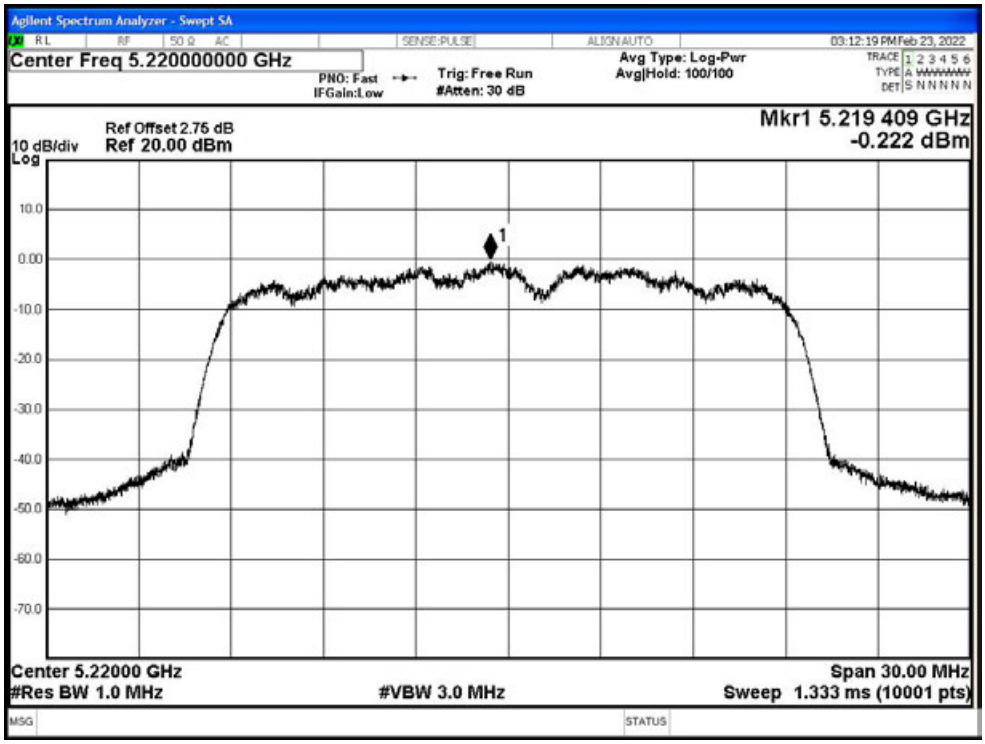
PSD NVNT a 5240MHz Ant1



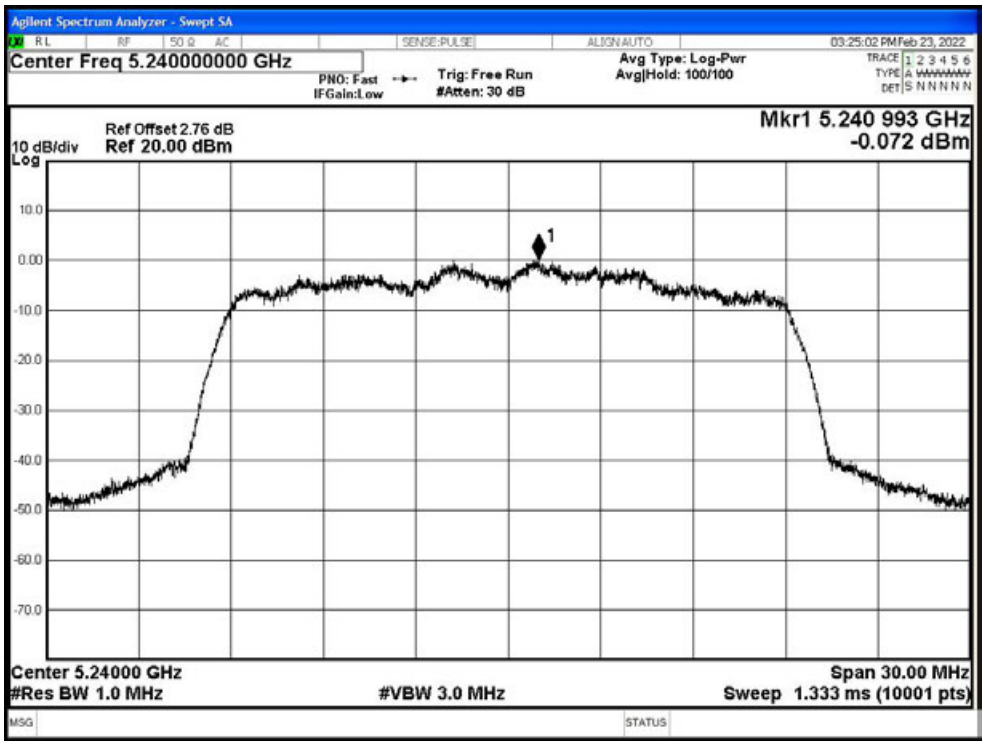
PSD NVNT n20 5180MHz Ant1



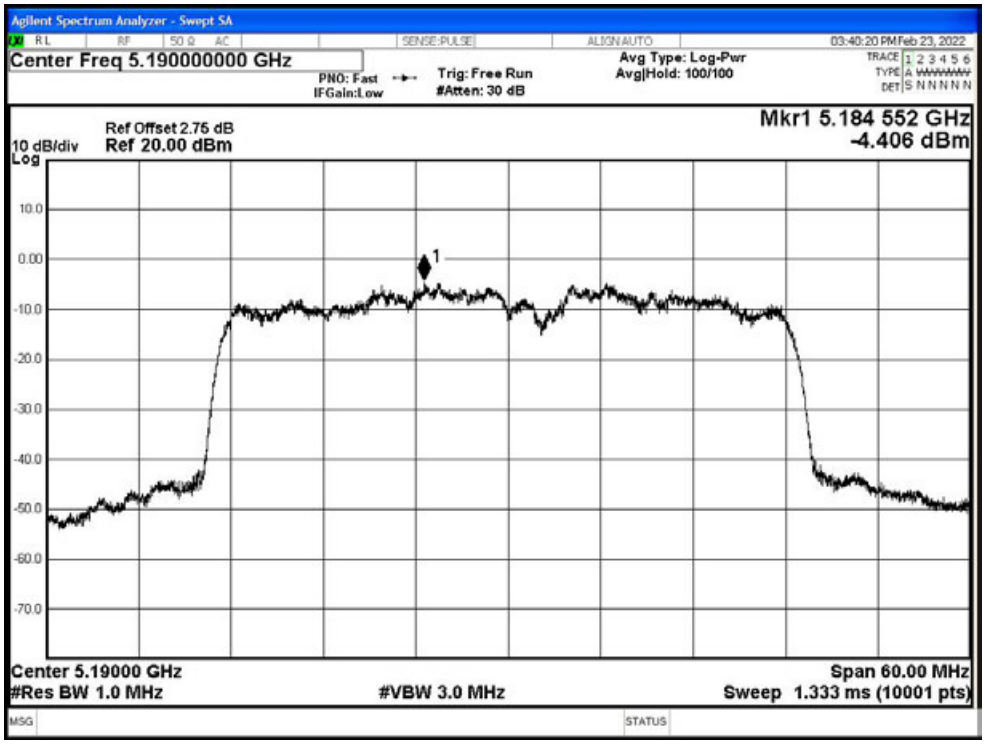
PSD NVNT n20 5220MHz Ant1



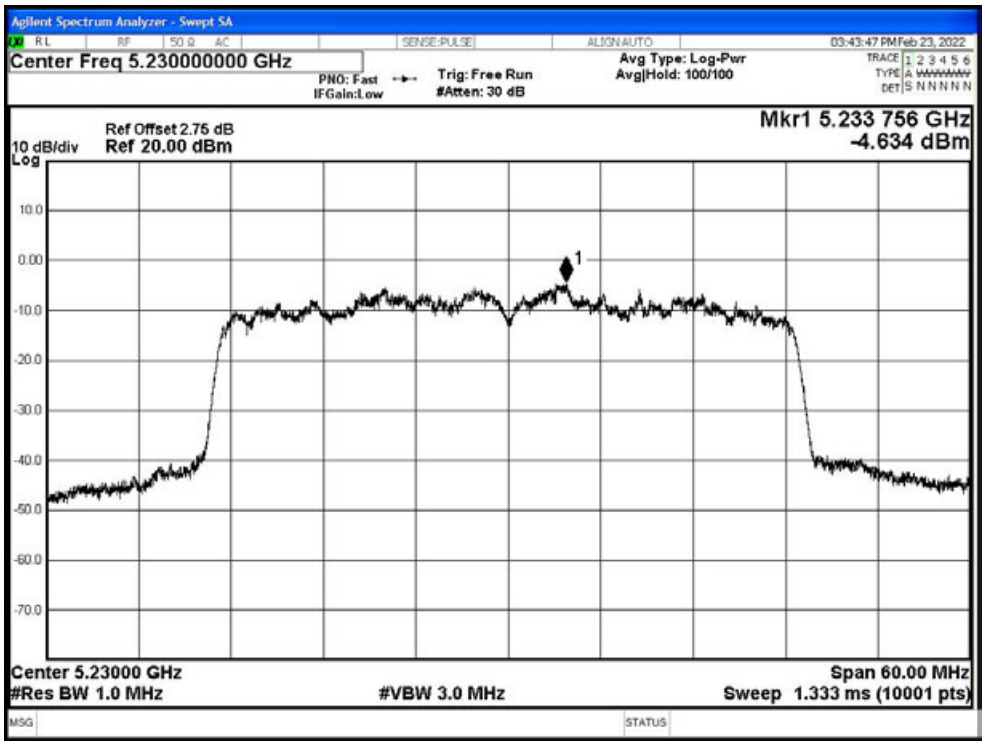
PSD NVNT n20 5240MHz Ant1



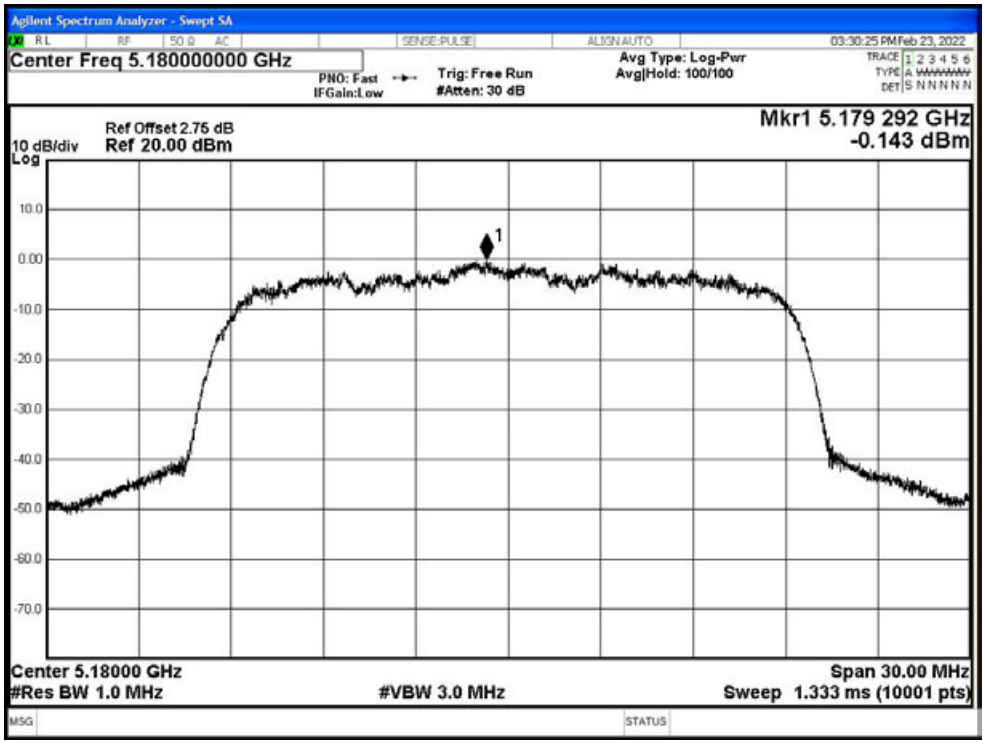
PSD NVNT n40 5190MHz Ant1



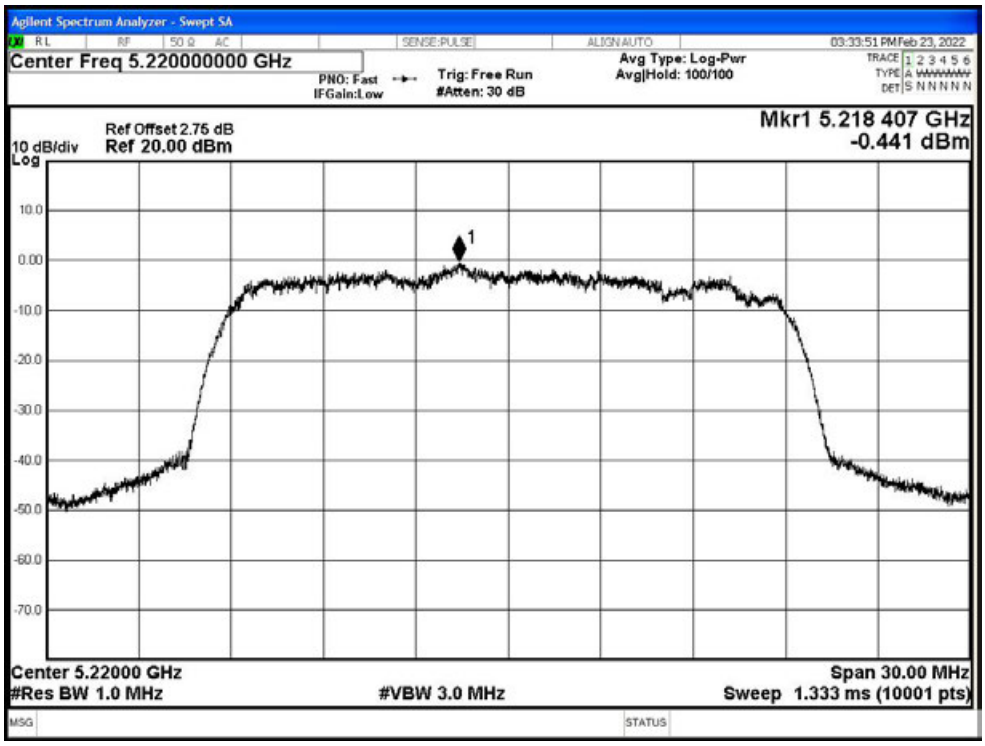
PSD NVNT n40 5230MHz Ant1



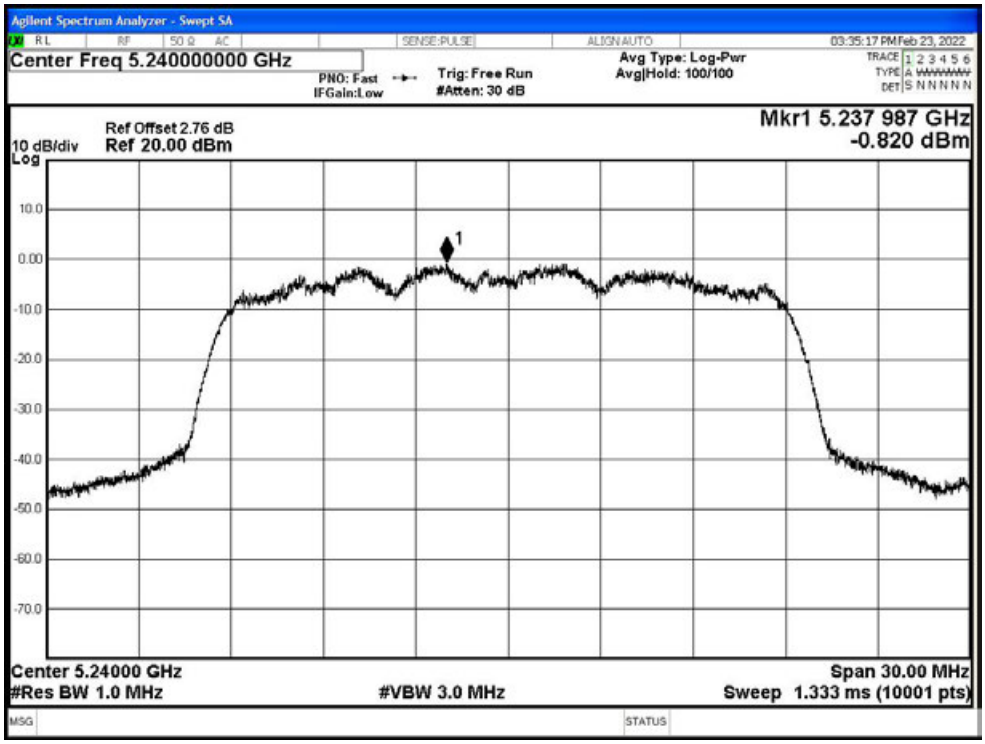
PSD NVNT ac20 5180MHz Ant1



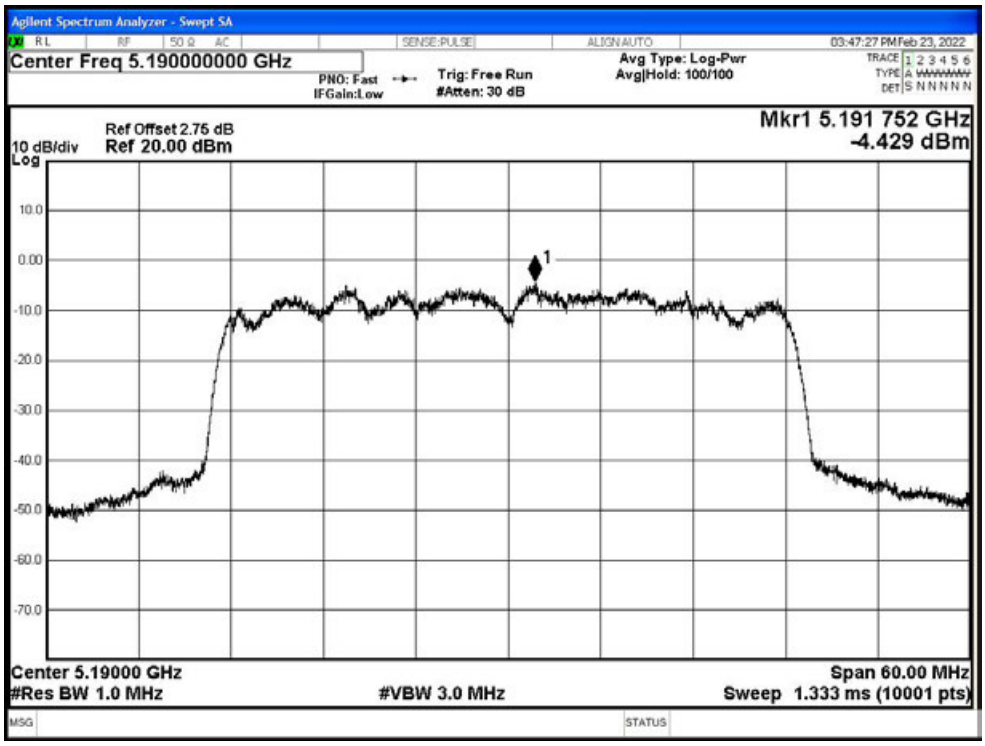
PSD NVNT ac20 5220MHz Ant1



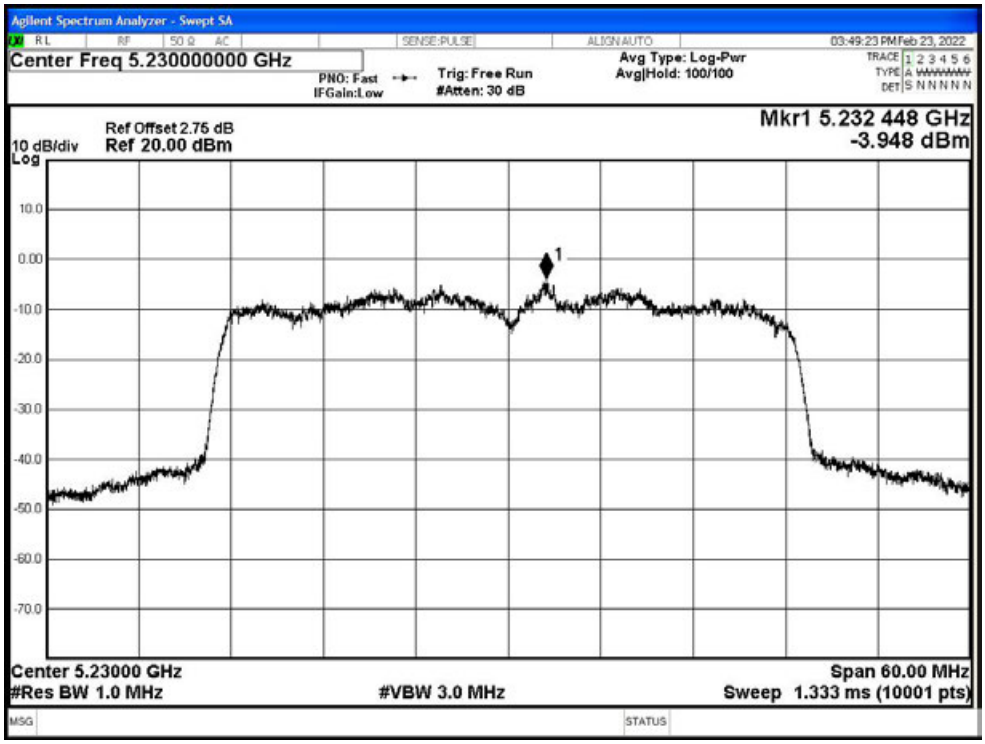
PSD NVNT ac20 5240MHz Ant1



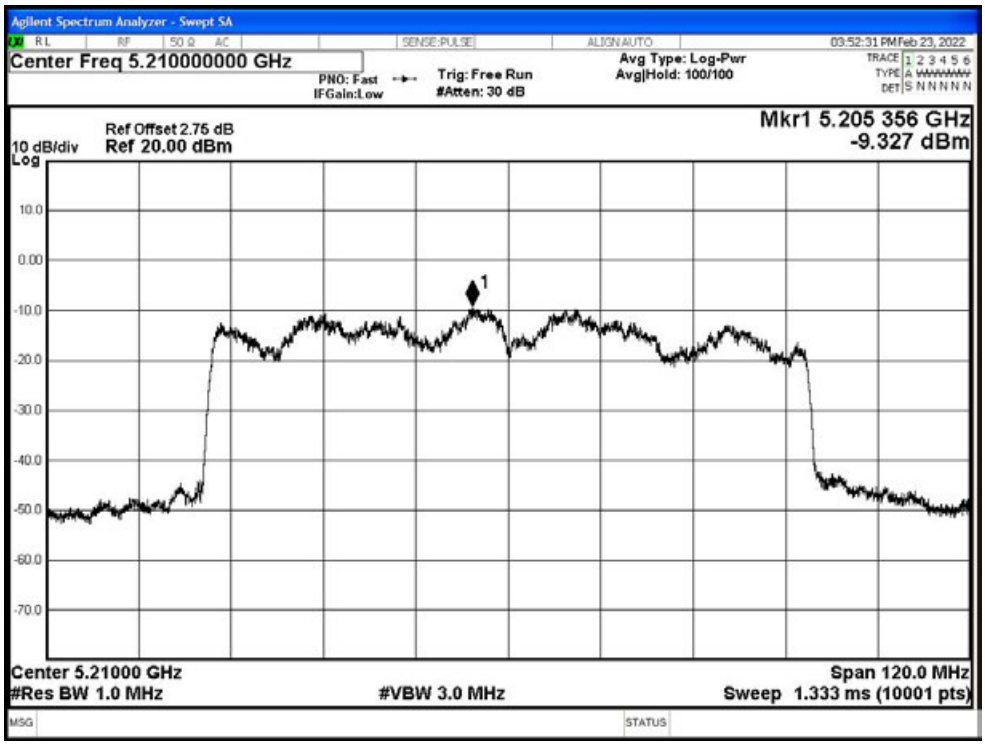
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

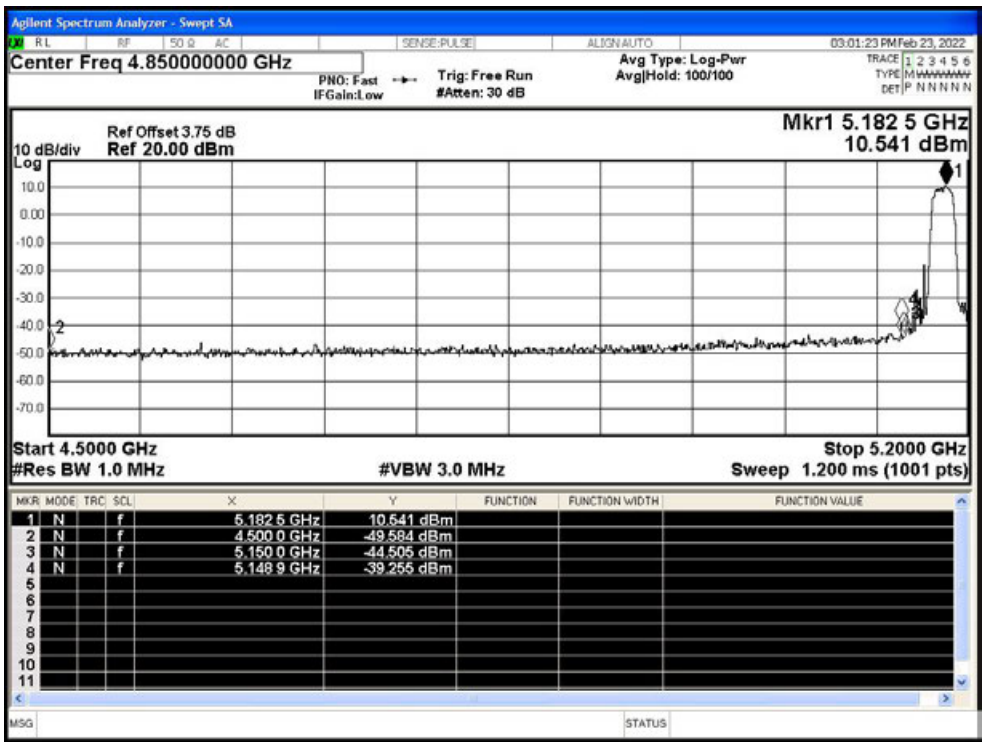


D.4 Restrict Band

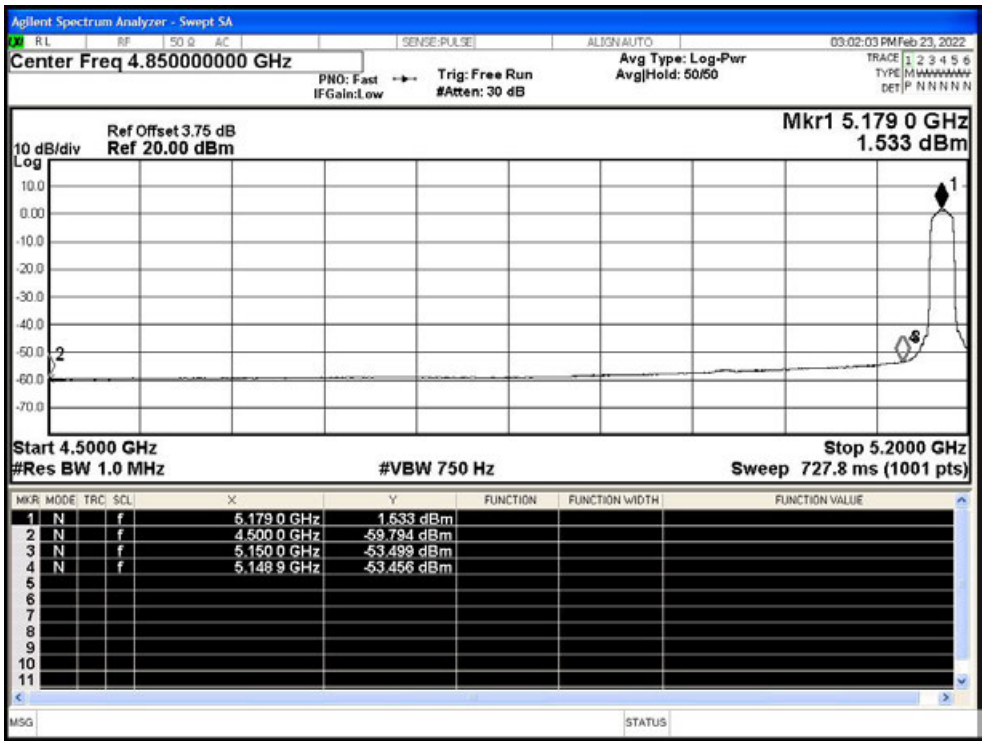
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-49.58	2	47.65	Peak	≤68.2	Pass
NVNT	a	5180	Ant1	4500	-59.79	2	37.44	Average	≤54	Pass
NVNT	a	5180	Ant1	5148.9	-39.25	2	57.98	Peak	≤68.2	Pass
NVNT	a	5180	Ant1	5148.9	-53.45	2	43.78	Average	≤54	Pass
NVNT	a	5180	Ant1	5150	-44.5	2	52.73	Peak	≤68.2	Pass
NVNT	a	5180	Ant1	5150	-53.49	2	43.74	Average	≤54	Pass
NVNT	a	5240	Ant1	5350	-46.92	2	50.31	Peak	≤68.2	Pass
NVNT	a	5240	Ant1	5350	-56.97	2	40.26	Average	≤54	Pass
NVNT	a	5240	Ant1	5371.68	-45.22	2	52.01	Peak	≤68.2	Pass
NVNT	a	5240	Ant1	5352	-56.92	2	40.31	Average	≤54	Pass
NVNT	a	5240	Ant1	5460	-49.18	2	48.05	Peak	≤68.2	Pass
NVNT	a	5240	Ant1	5460	-58.59	2	38.64	Average	≤54	Pass
NVNT	n20	5180	Ant1	4500	-50.08	2	47.15	Peak	≤68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.74	2	37.49	Average	≤54	Pass
NVNT	n20	5180	Ant1	5145.4	-35.6	2	61.63	Peak	≤68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-53	2	44.23	Average	≤54	Pass
NVNT	n20	5180	Ant1	5150	-43.66	2	53.57	Peak	≤68.2	Pass
NVNT	n20	5180	Ant1	5150	-52.87	2	44.36	Average	≤54	Pass
NVNT	n20	5240	Ant1	5350	-48.4	2	48.83	Peak	≤68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.93	2	40.3	Average	≤54	Pass
NVNT	n20	5240	Ant1	5399.04	-45.66	2	51.57	Peak	≤68.2	Pass
NVNT	n20	5240	Ant1	5351.04	-56.74	2	40.49	Average	≤54	Pass
NVNT	n20	5240	Ant1	5460	-50.65	2	46.58	Peak	≤68.2	Pass
NVNT	n20	5240	Ant1	5460	-58.58	2	38.65	Average	≤54	Pass
NVNT	n40	5190	Ant1	4500	-49.08	2	48.15	Peak	≤68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.42	2	37.81	Average	≤54	Pass
NVNT	n40	5190	Ant1	5147.51	-41.45	2	55.78	Peak	≤68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-53.96	2	43.27	Average	≤54	Pass
NVNT	n40	5190	Ant1	5150	-40.3	2	56.93	Peak	≤68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.11	2	43.12	Average	≤54	Pass
NVNT	n40	5230	Ant1	5350	-47.56	2	49.67	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.22	2	40.01	Average	54	Pass
NVNT	n40	5230	Ant1	5359.02	-45.75	2	51.48	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5373.33	-57.09	2	40.14	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-48.57	2	48.66	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.23	2	39	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-51.3	2	45.93	Peak	≤68.2	Pass
NVNT	ac20	5180	Ant1	4500	-59.68	2	37.55	Average	≤54	Pass
NVNT	ac20	5180	Ant1	5149.6	-41.78	2	55.45	Peak	≤68.2	Pass

NVNT	ac20	5180	Ant1	5149.6	-52.99	2	44.24	Average	≤54	Pass
NVNT	ac20	5180	Ant1	5150	-39.29	2	57.94	Peak	≤68.2	Pass
NVNT	ac20	5180	Ant1	5150	-52.98	2	44.25	Average	≤54	Pass
NVNT	ac20	5240	Ant1	5350	-48.24	2	48.99	Peak	≤68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.89	2	40.34	Average	≤54	Pass
NVNT	ac20	5240	Ant1	5351.76	-45.19	2	52.04	Peak	≤68.2	Pass
NVNT	ac20	5240	Ant1	5351.04	-56.74	2	40.49	Average	≤54	Pass
NVNT	ac20	5240	Ant1	5460	-50.2	2	47.03	Peak	≤68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.46	2	38.77	Average	≤54	Pass
NVNT	ac40	5190	Ant1	4500	-50.77	2	46.46	Peak	≤68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.44	2	37.79	Average	≤54	Pass
NVNT	ac40	5190	Ant1	5108.09	-45.16	2	52.07	Peak	≤68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-56	2	41.23	Average	≤54	Pass
NVNT	ac40	5190	Ant1	5150	-47.2	2	50.03	Peak	≤68.2	Pass
NVNT	ac40	5190	Ant1	5150	-56.2	2	41.03	Average	≤54	Pass
NVNT	ac40	5230	Ant1	5350	-47.72	2	49.51	Peak	≤68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.66	2	40.57	Average	≤54	Pass
NVNT	ac40	5230	Ant1	5353.08	-45.83	2	51.4	Peak	≤68.2	Pass
NVNT	ac40	5230	Ant1	5351.19	-56.43	2	40.8	Average	≤54	Pass
NVNT	ac40	5230	Ant1	5460	-49.1	2	48.13	Peak	≤68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.33	2	38.9	Average	≤54	Pass
NVNT	ac80	5210	Ant1	4500	-47.52	2	49.71	Peak	≤68.2	Pass
NVNT	ac80	5210	Ant1	4500	-58.71	2	38.52	Average	≤54	Pass
NVNT	ac80	5210	Ant1	5138.32	-44.18	2	53.05	Peak	≤68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-53.01	2	44.22	Average	≤54	Pass
NVNT	ac80	5210	Ant1	5150	-43.31	2	53.92	Peak	≤68.2	Pass
NVNT	ac80	5210	Ant1	5150	-53.3	2	43.93	Average	≤54	Pass
NVNT	ac80	5210	Ant1	5350	-47.98	2	49.25	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-57.05	2	40.18	Average	54	Pass
NVNT	ac80	5210	Ant1	5423.37	-45.98	2	51.25	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5369.25	-56.47	2	40.76	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.25	2	48.98	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-58.09	2	39.14	Average	54	Pass

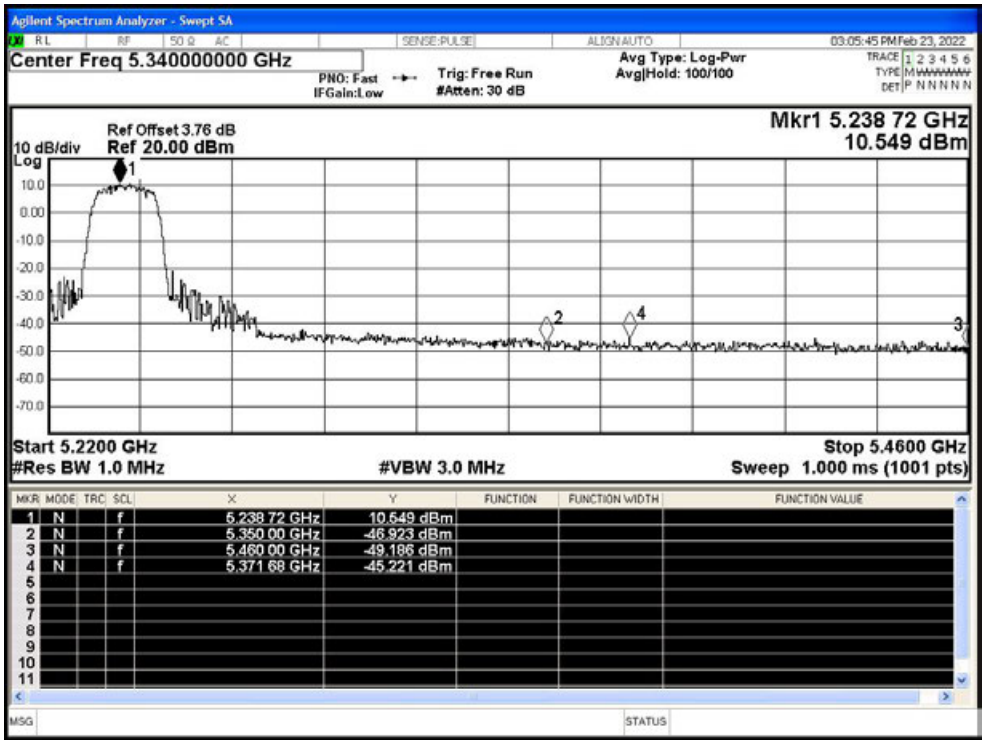
Test Graphs
Restrict Band NVNT a 5180MHz Ant1 Peak



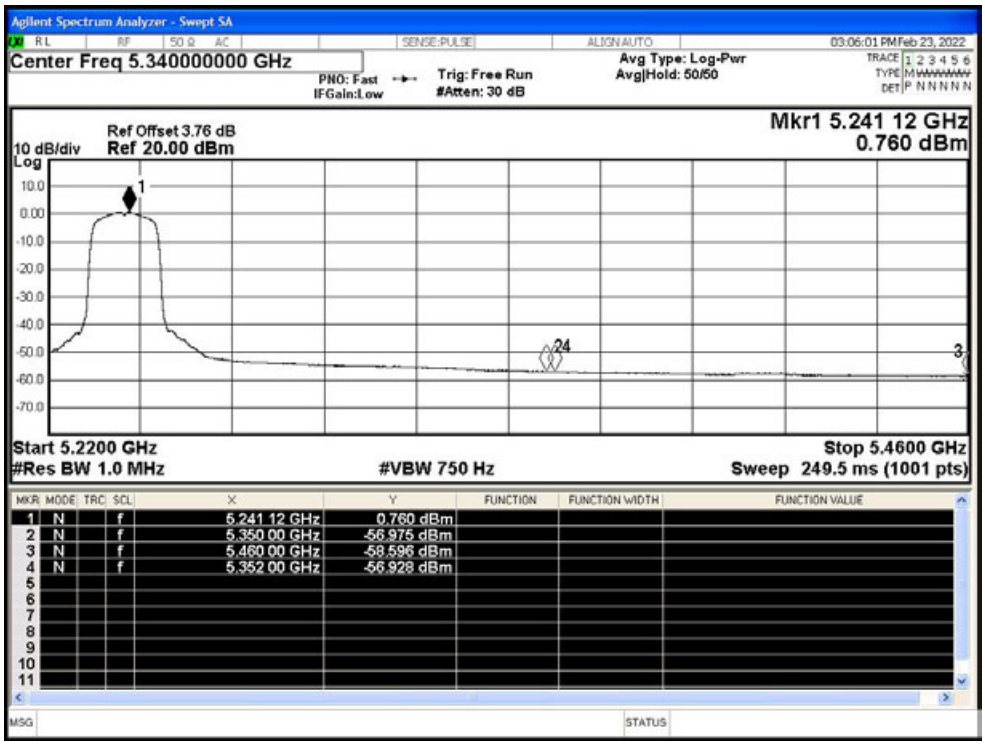
Restrict Band NVNT a 5180MHz Ant1 Average



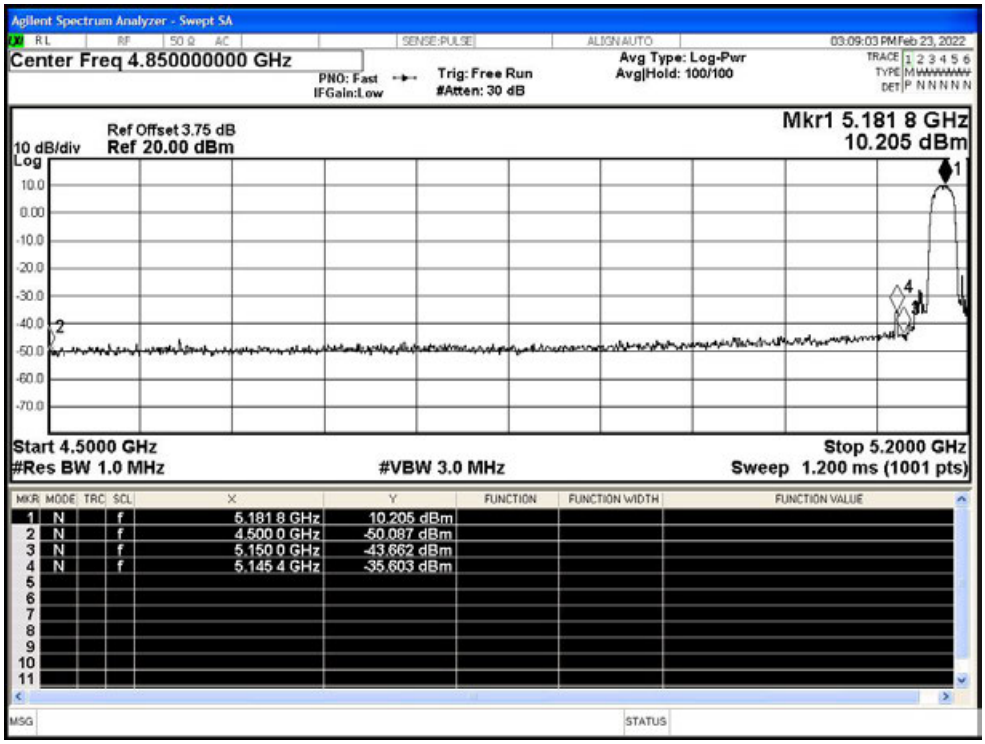
Restrict Band NVNT a 5240MHz Ant1 Peak



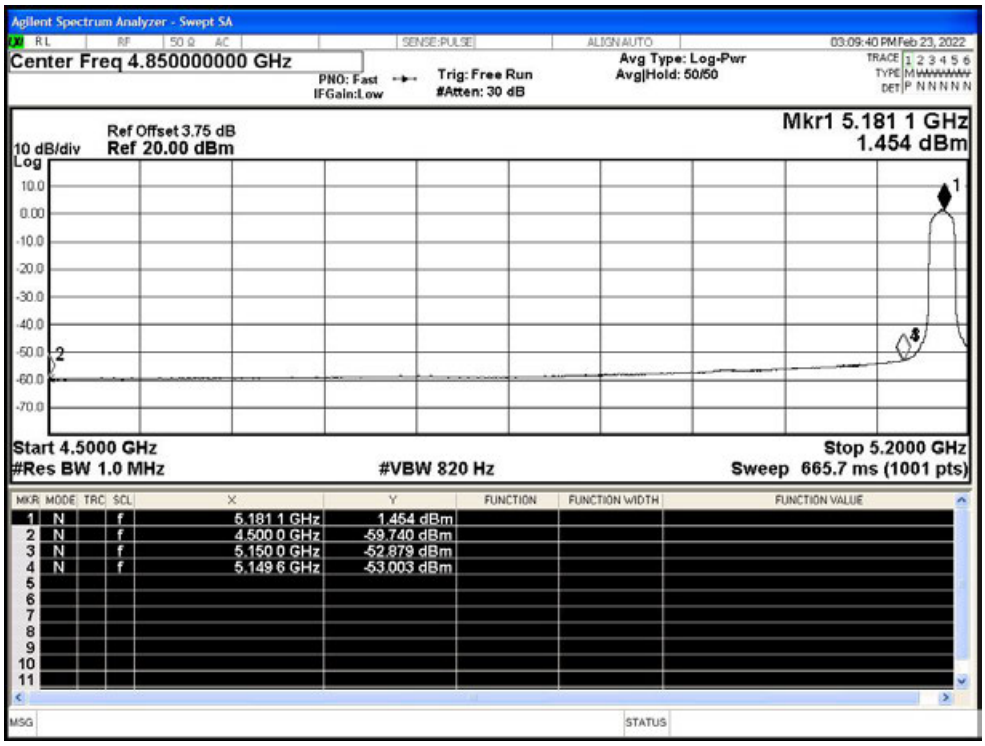
Restrict Band NVNT a 5240MHz Ant1 Average



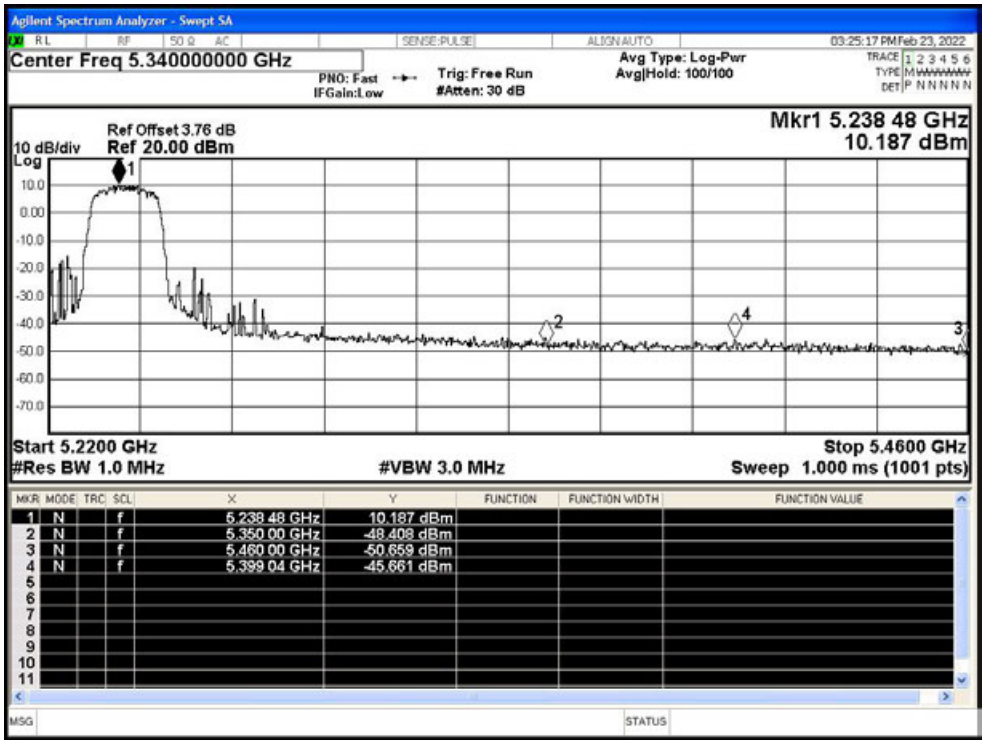
Restrict Band NVNT n20 5180MHz Ant1 Peak



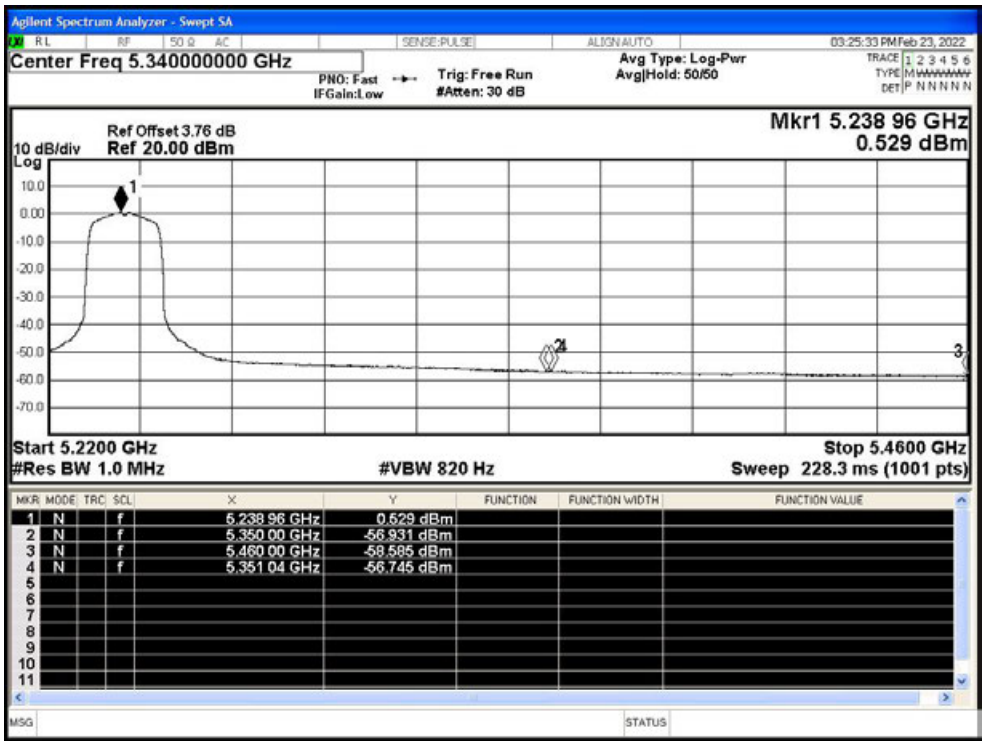
Restrict Band NVNT n20 5180MHz Ant1 Average



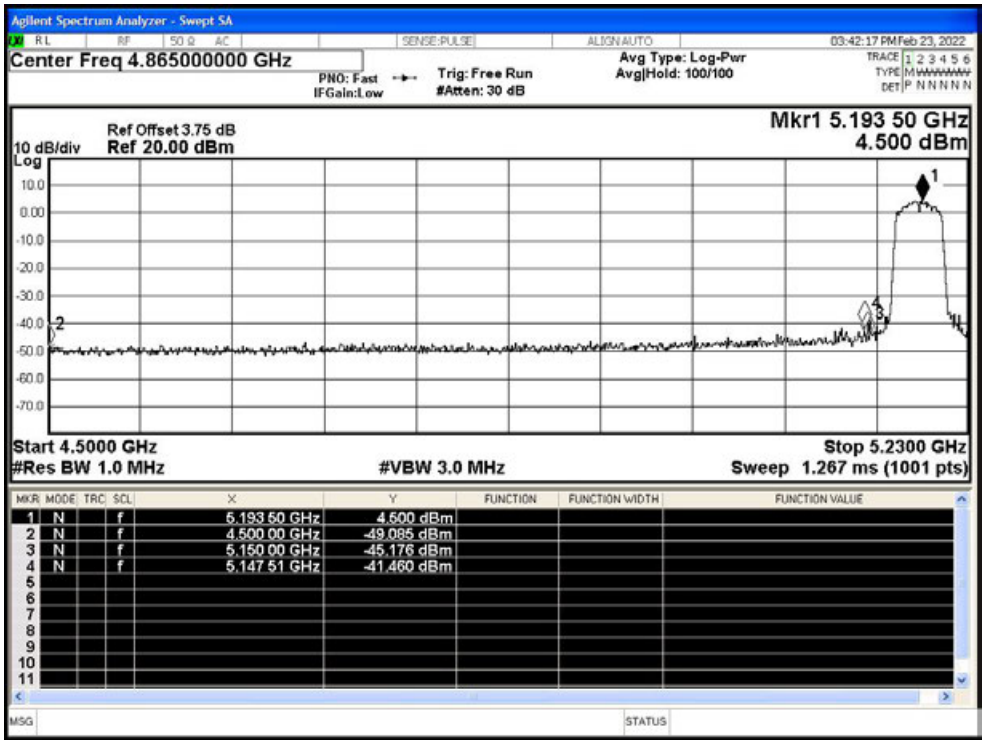
Restrict Band NVNT n20 5240MHz Ant1 Peak



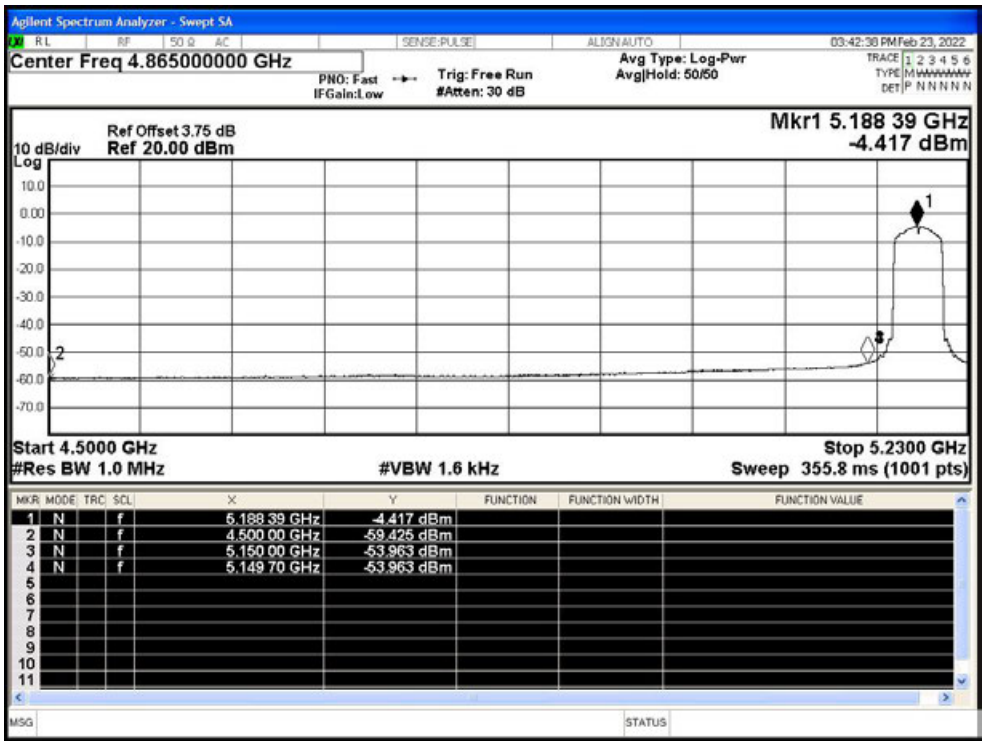
Restrict Band NVNT n20 5240MHz Ant1 Average



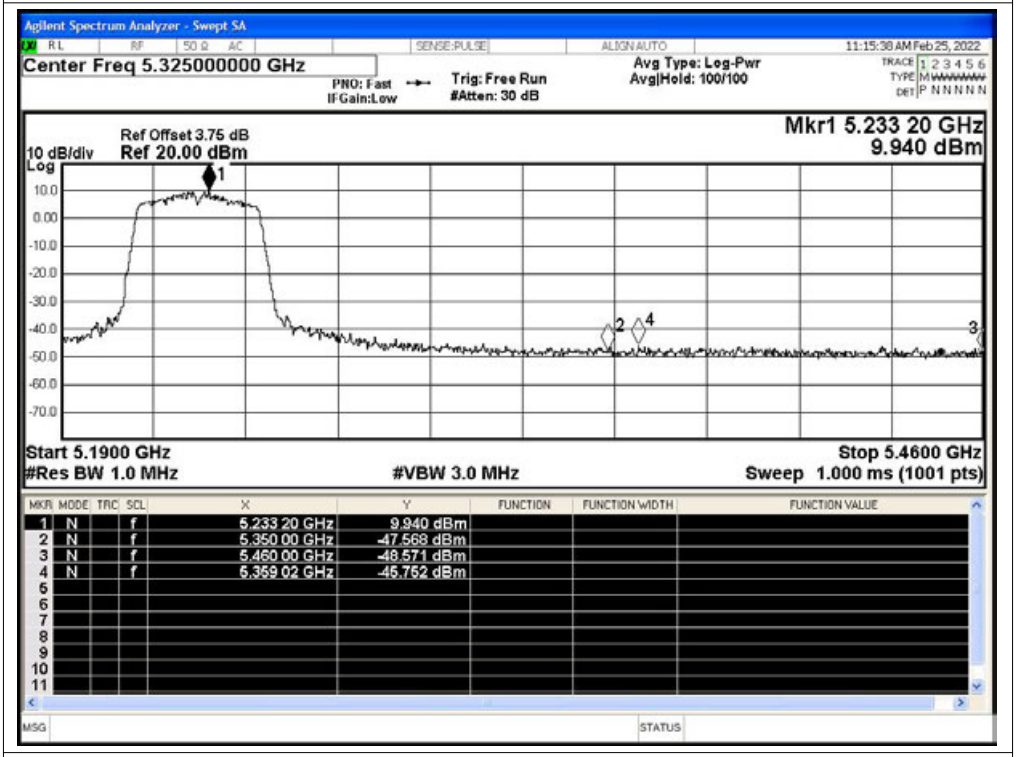
Restrict Band NVNT n40 5190MHz Ant1 Peak



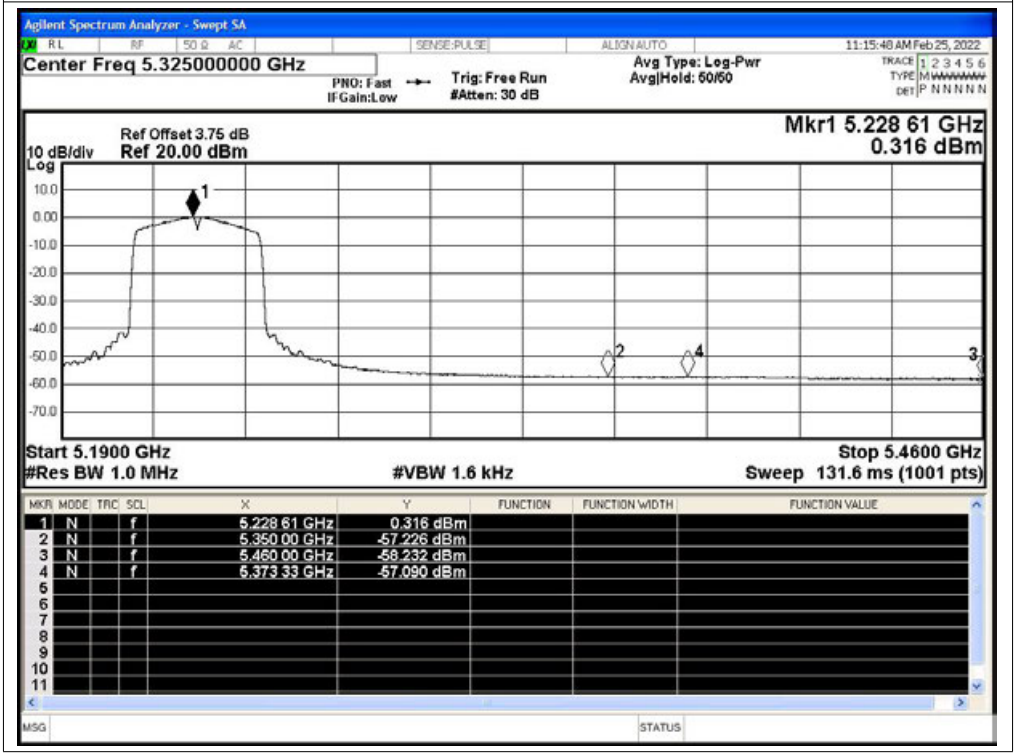
Restrict Band NVNT n40 5190MHz Ant1 Average



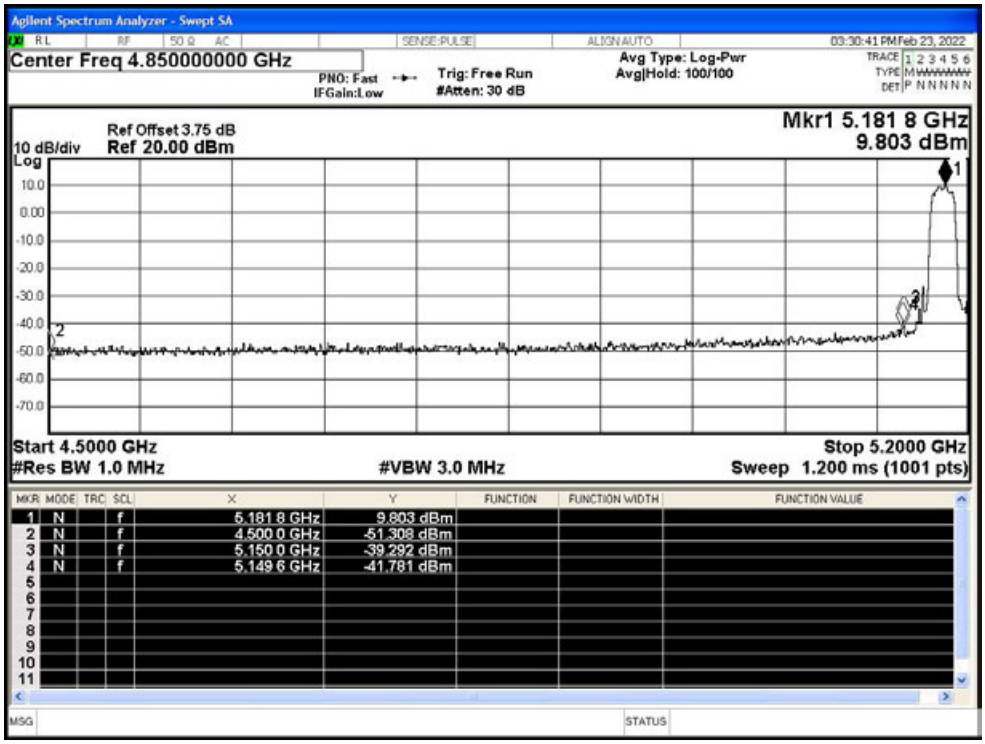
Restrict Band NVNT n40 5230MHz Ant1 Peak



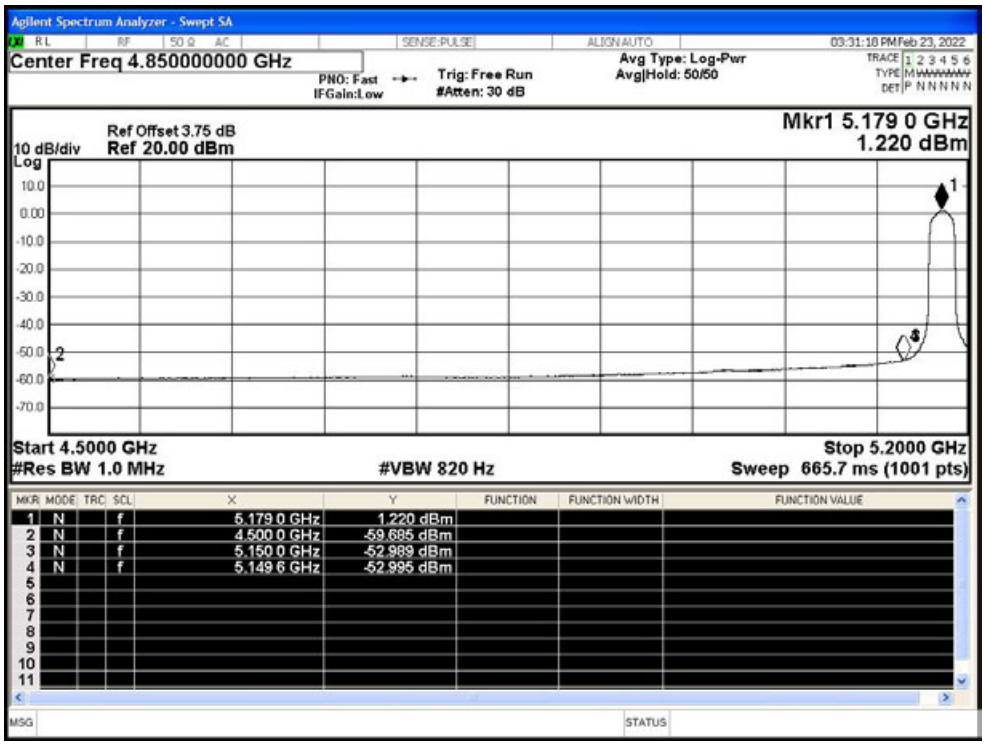
Restrict Band NVNT n40 5230MHz Ant1 Average



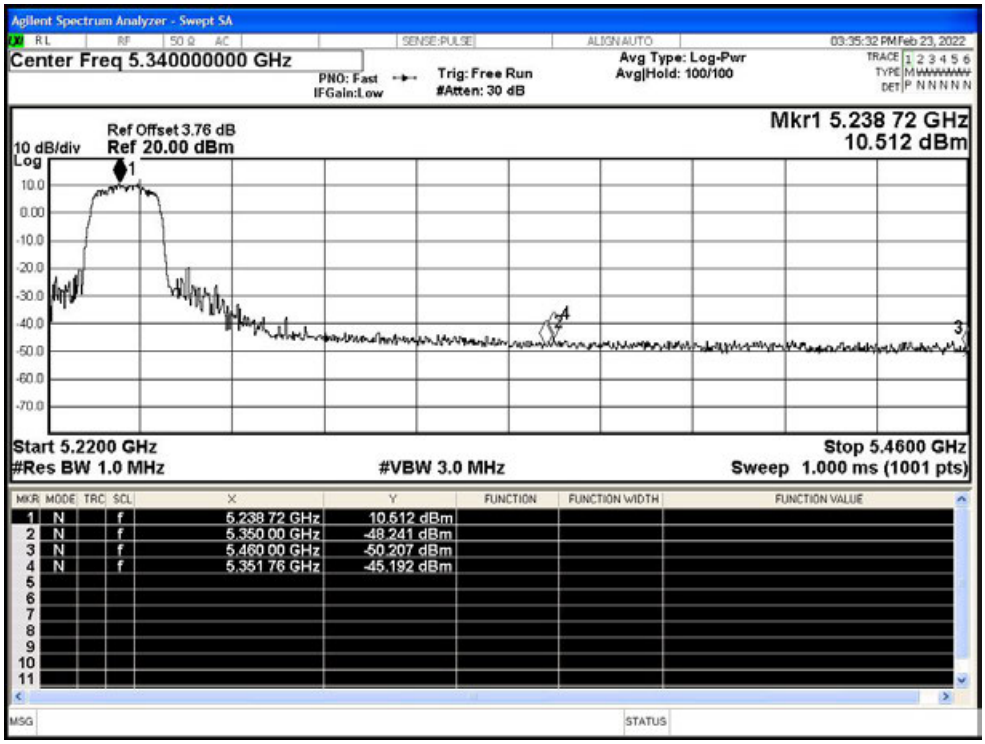
Restrict Band NVNT ac20 5180MHz Ant1 Peak



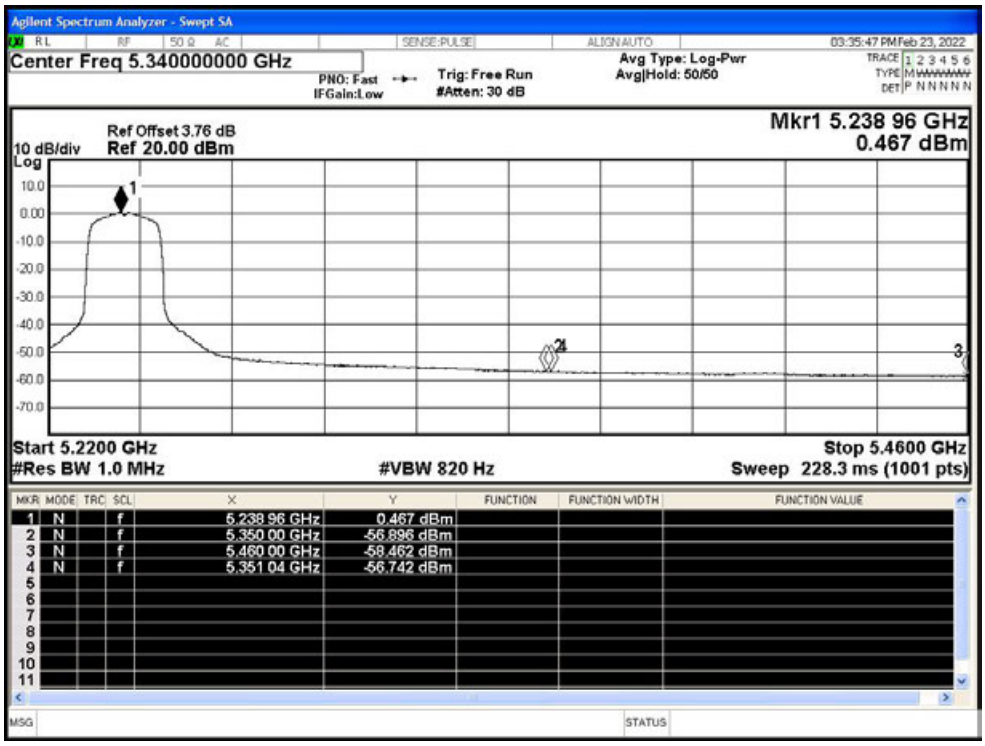
Restrict Band NVNT ac20 5180MHz Ant1 Average



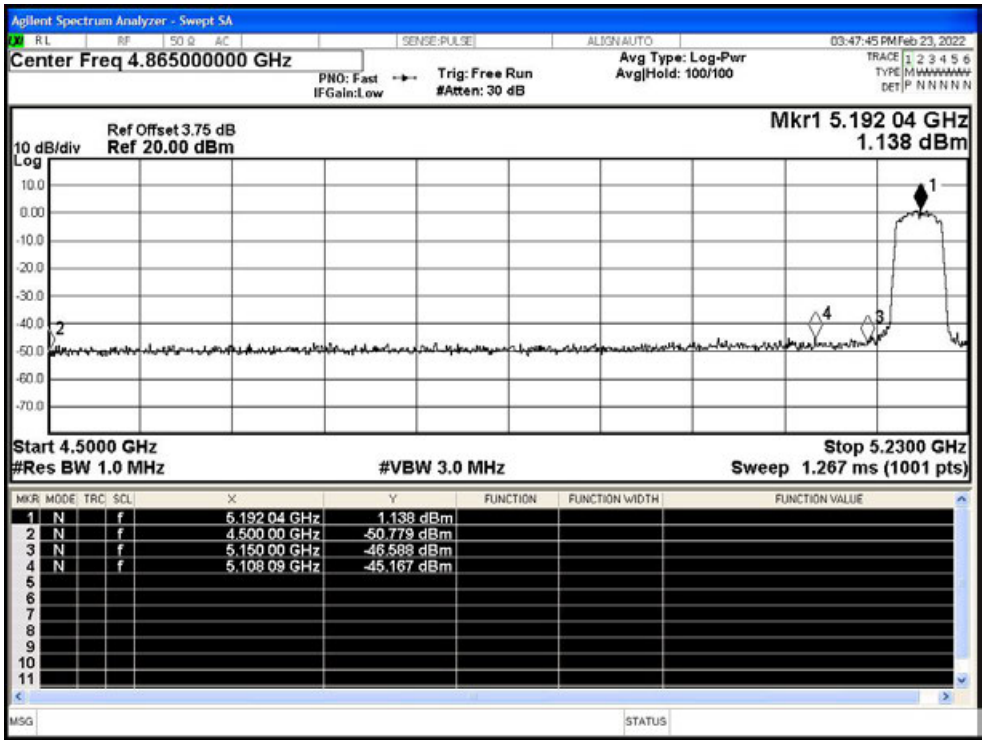
Restrict Band NVNT ac20 5240MHz Ant1 Peak



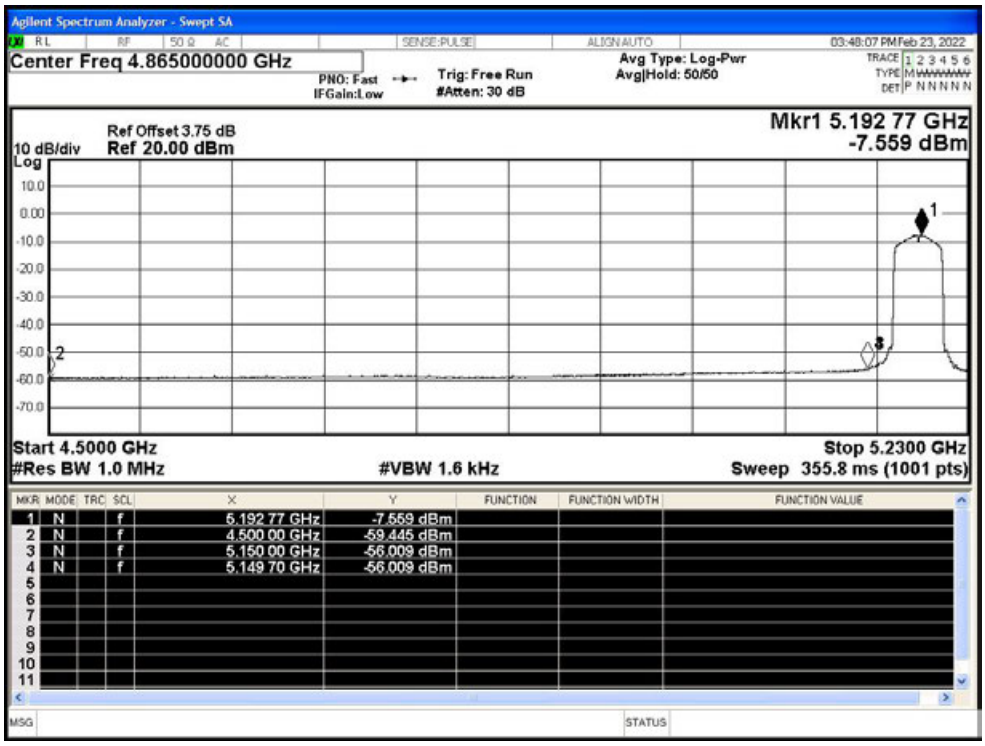
Restrict Band NVNT ac20 5240MHz Ant1 Average



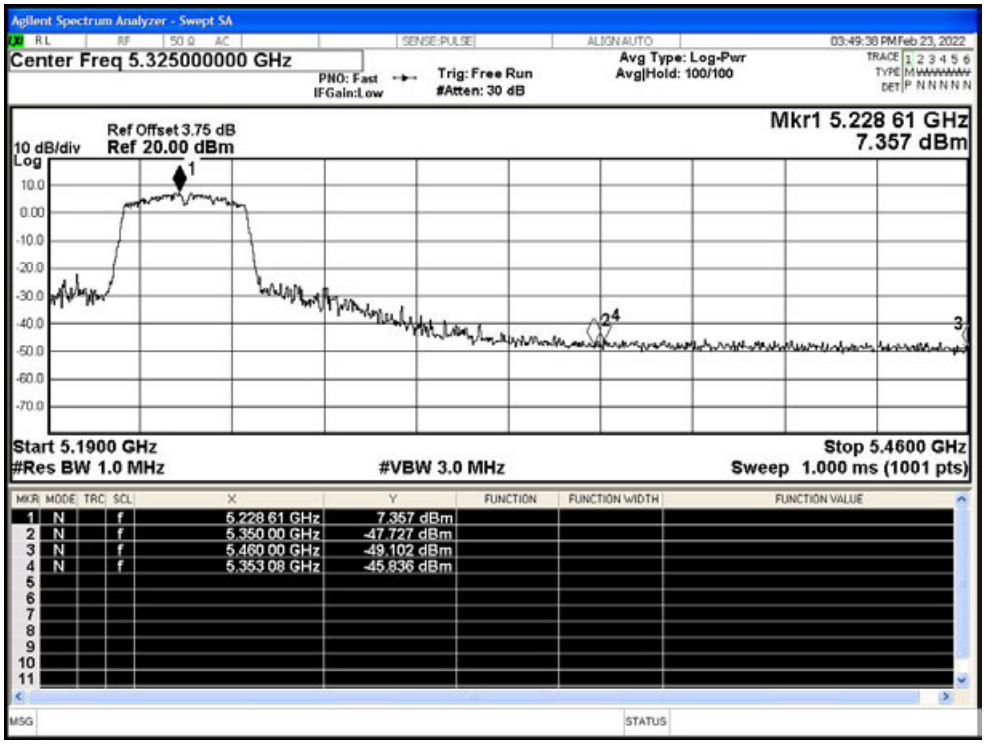
Restrict Band NVNT ac40 5190MHz Ant1 Peak



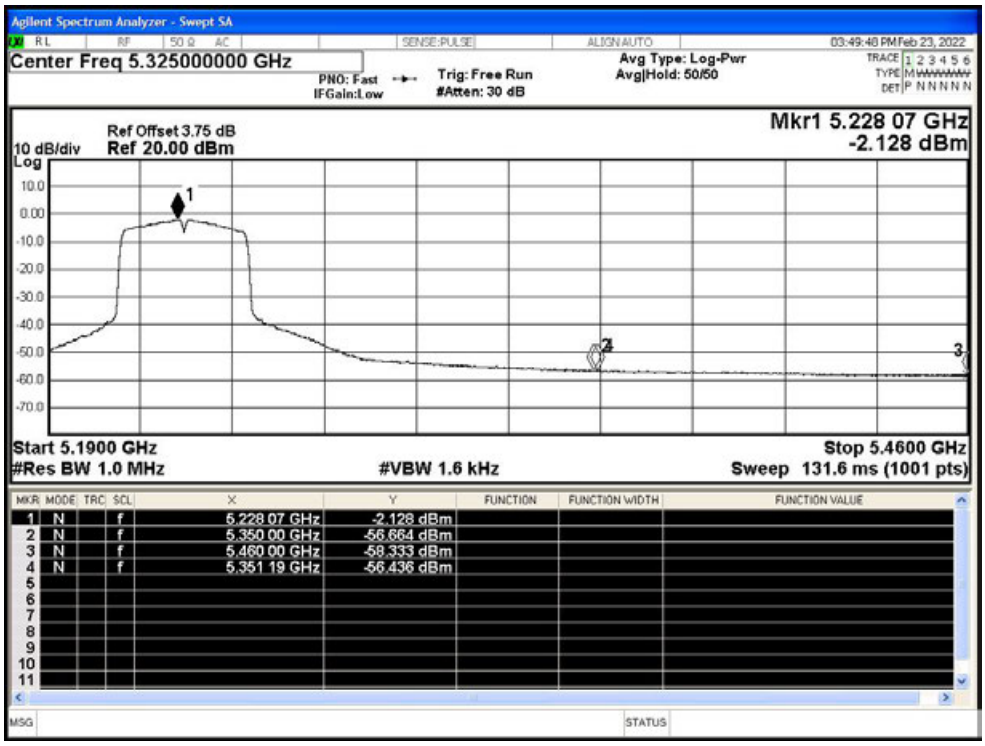
Restrict Band NVNT ac40 5190MHz Ant1 Average



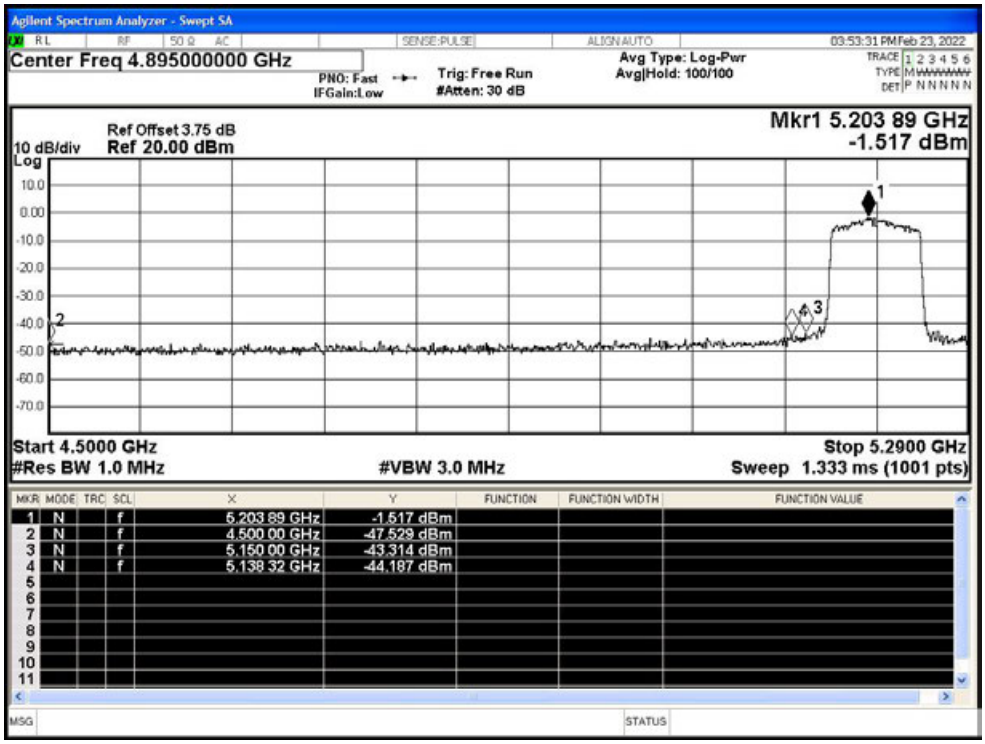
Restrict Band NVNT ac40 5230MHz Ant1 Peak



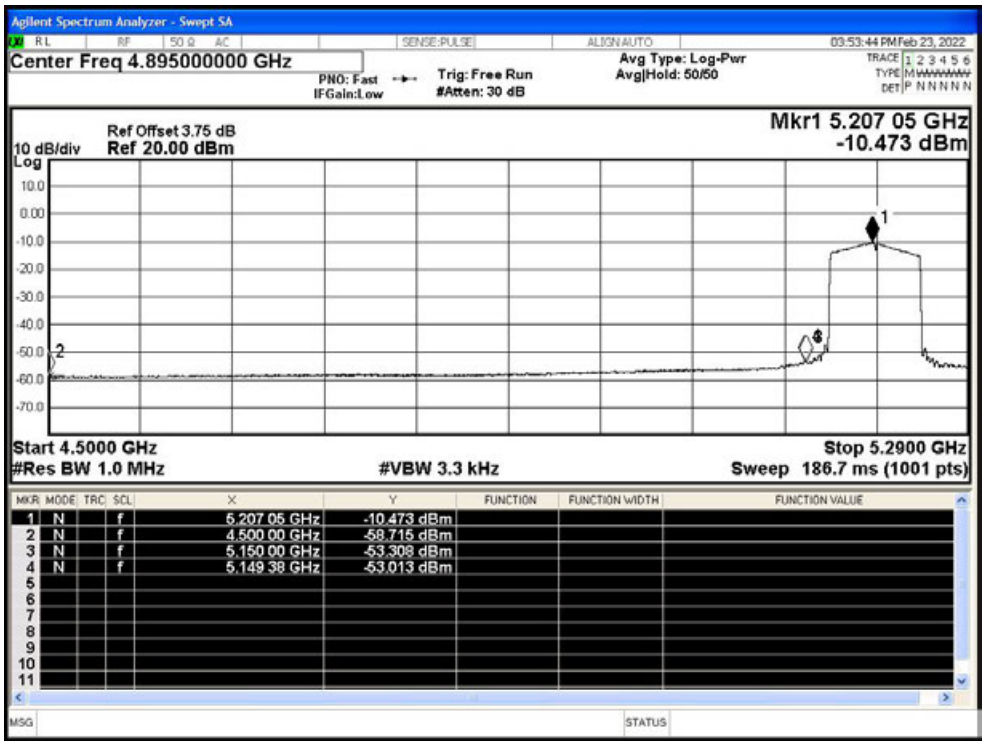
Restrict Band NVNT ac40 5230MHz Ant1 Average



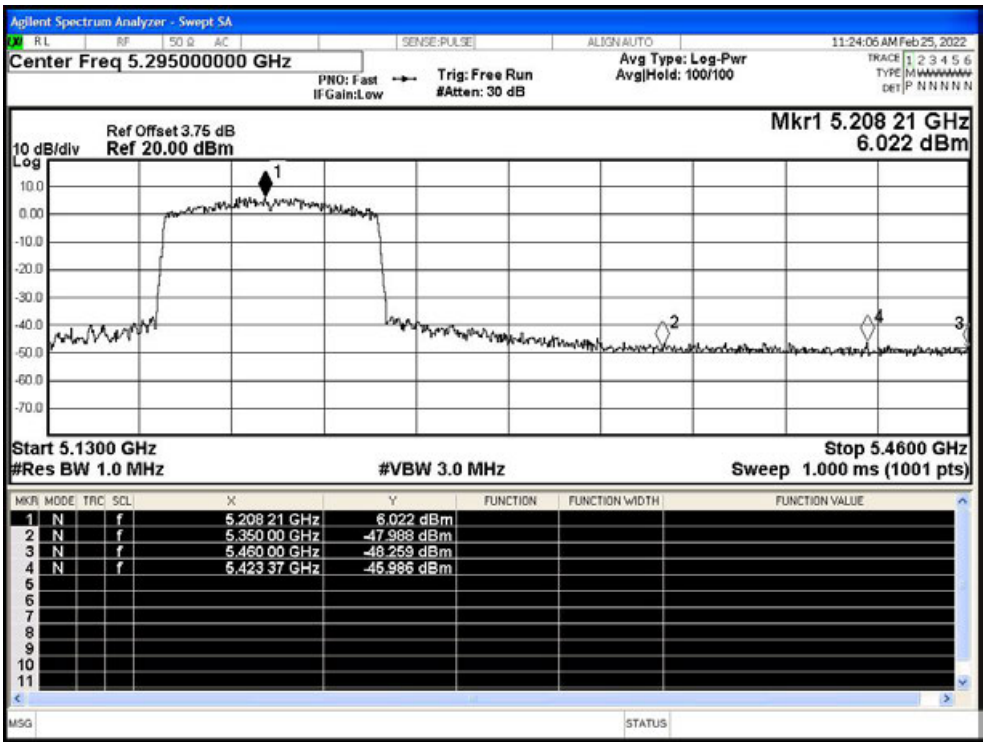
Restrict Band NVNT ac80 5210MHz Ant1 Peak



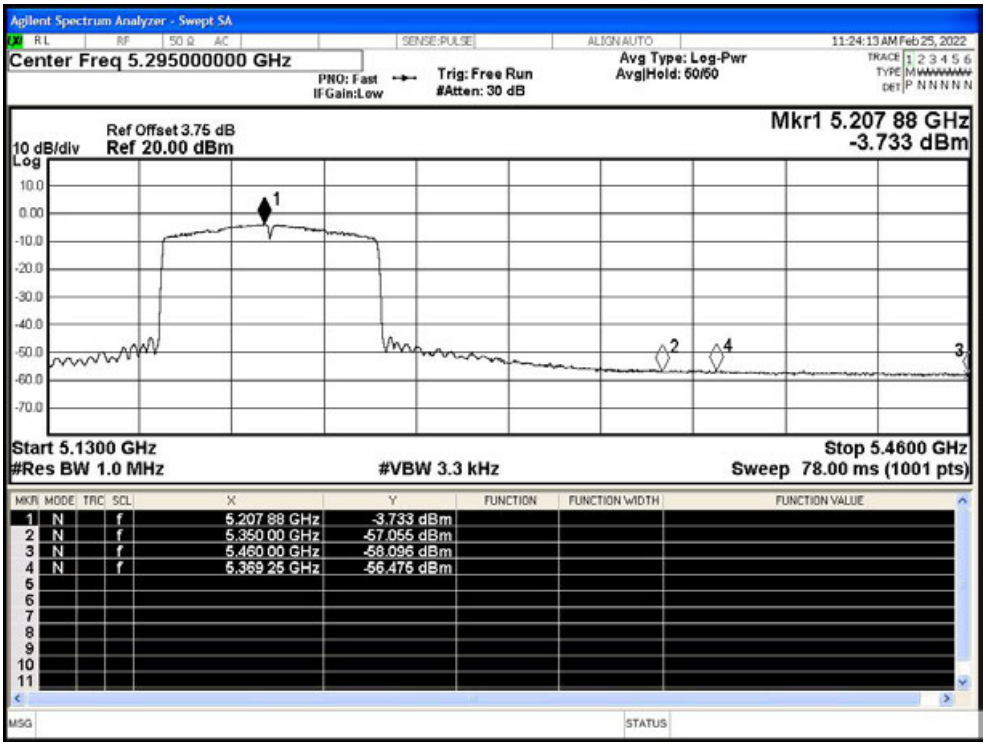
Restrict Band NVNT ac80 5210MHz Ant1 Average



Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average



D.5 Frequency Stability

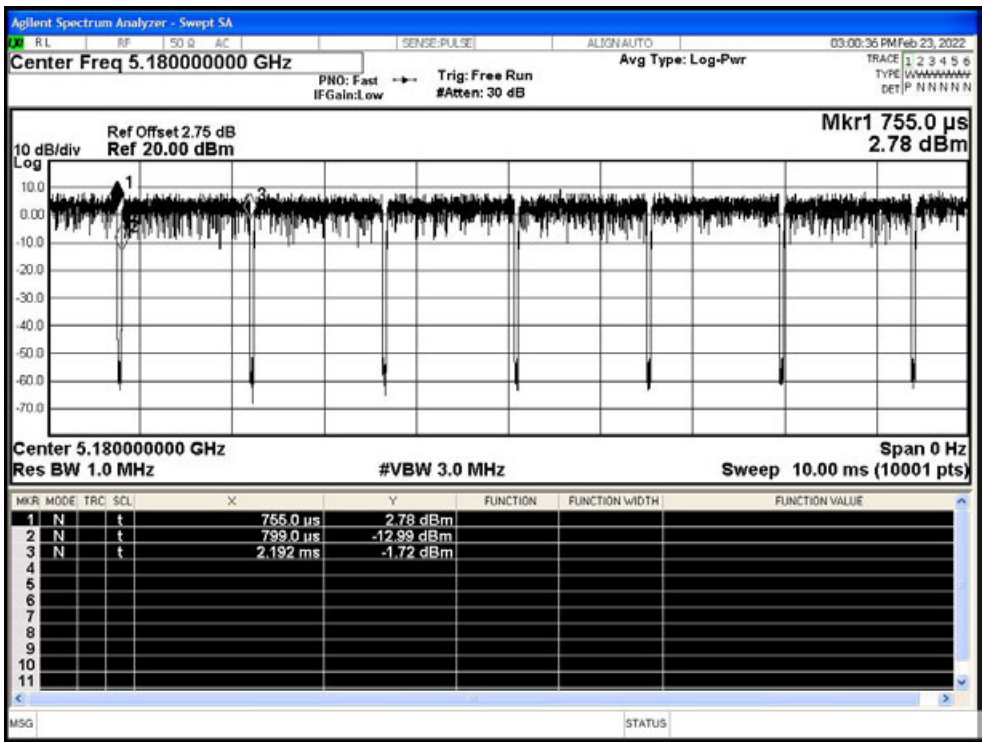
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5220	Ant1	5220.02	20000	3.83	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5220	Ant1	5219.96	-40000	-7.66	25	Pass
NVNT	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
-20C 120V	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
-10C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
0C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
10C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
40C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	ac20	5220	Ant1	5219.98	-20000	-3.83	25	Pass
-10C 120V	ac20	5220	Ant1	5219.98	-20000	-3.83	25	Pass
0C 120V	ac20	5220	Ant1	5219.98	-20000	-3.83	25	Pass
10C 120V	ac20	5220	Ant1	5219.96	-40000	-7.66	25	Pass
20C 120V	ac20	5220	Ant1	5219.96	-40000	-7.66	25	Pass
30C 120V	ac20	5220	Ant1	5219.98	-20000	-3.83	25	Pass
40C 120V	ac20	5220	Ant1	5219.98	-20000	-3.83	25	Pass
50C 120V	ac20	5220	Ant1	5219.96	-40000	-7.66	25	Pass
-20C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
10C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
20C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
40C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-20C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
-10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
0C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
30C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	ac40	5190	Ant1	5190	0	0	25	Pass

50C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
-10C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
0C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
10C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
30C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
40C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
50C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-20C 120V	ac80	5210	Ant1	5209.92	-80000	-15.36	25	Pass
-10C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
0C 120V	ac80	5210	Ant1	5209.92	-80000	-15.36	25	Pass
10C 120V	ac80	5210	Ant1	5209.92	-80000	-15.36	25	Pass
20C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
30C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
40C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
50C 120V	ac80	5210	Ant1	5210	0	0	25	Pass

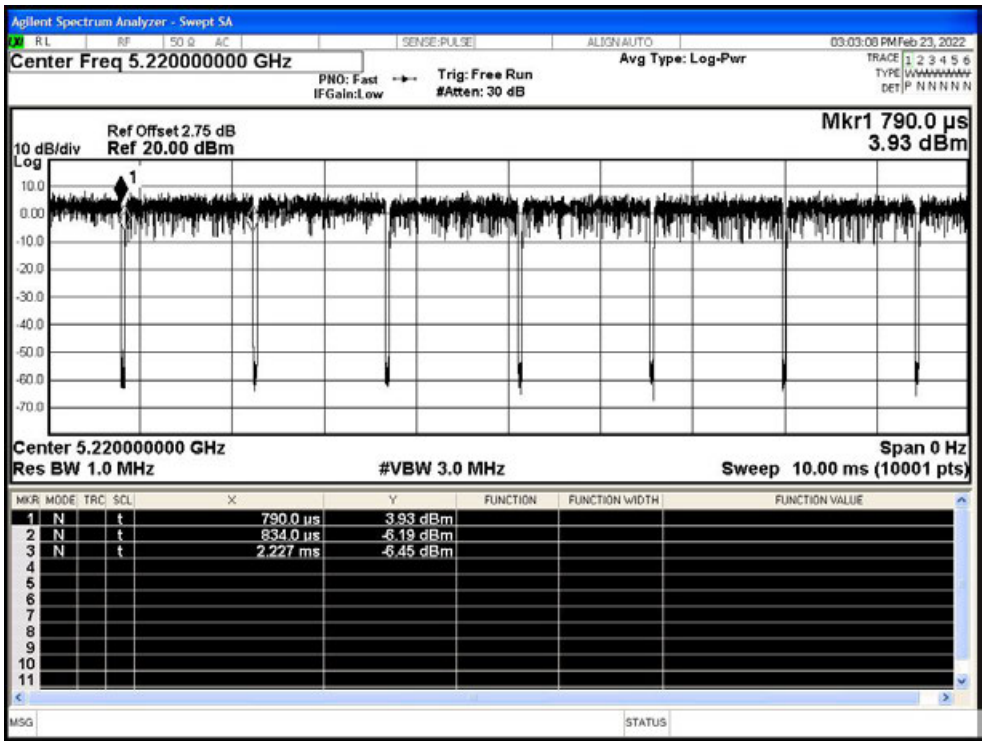
D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.94	0.13	0.72
NVNT	a	5220	Ant1	96.94	0.13	0.72
NVNT	a	5240	Ant1	96.94	0.13	0.72
NVNT	n20	5180	Ant1	96.73	0.14	0.77
NVNT	n20	5220	Ant1	96.8	0.14	0.77
NVNT	n20	5240	Ant1	96.73	0.14	0.77
NVNT	n40	5190	Ant1	94.08	0.27	1.54
NVNT	n40	5230	Ant1	93.93	0.27	1.54
NVNT	ac20	5180	Ant1	96.76	0.14	0.76
NVNT	ac20	5220	Ant1	96.83	0.14	0.76
NVNT	ac20	5240	Ant1	96.76	0.14	0.76
NVNT	ac40	5190	Ant1	93.97	0.27	1.53
NVNT	ac40	5230	Ant1	93.83	0.28	1.53
NVNT	ac80	5210	Ant1	88.32	0.54	3.08

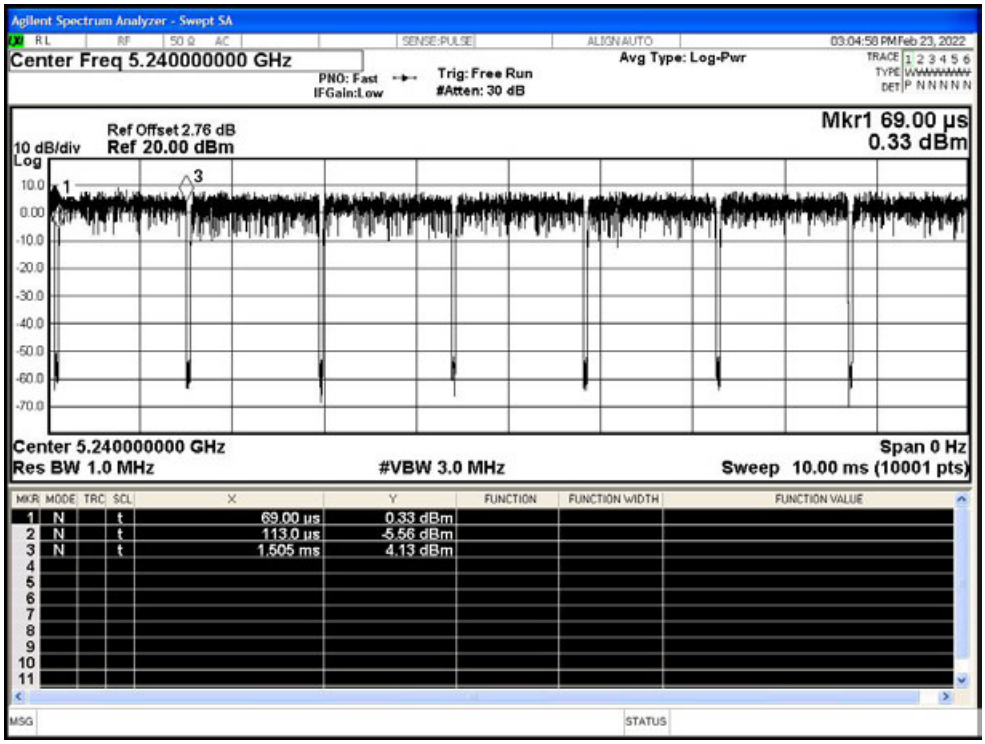
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



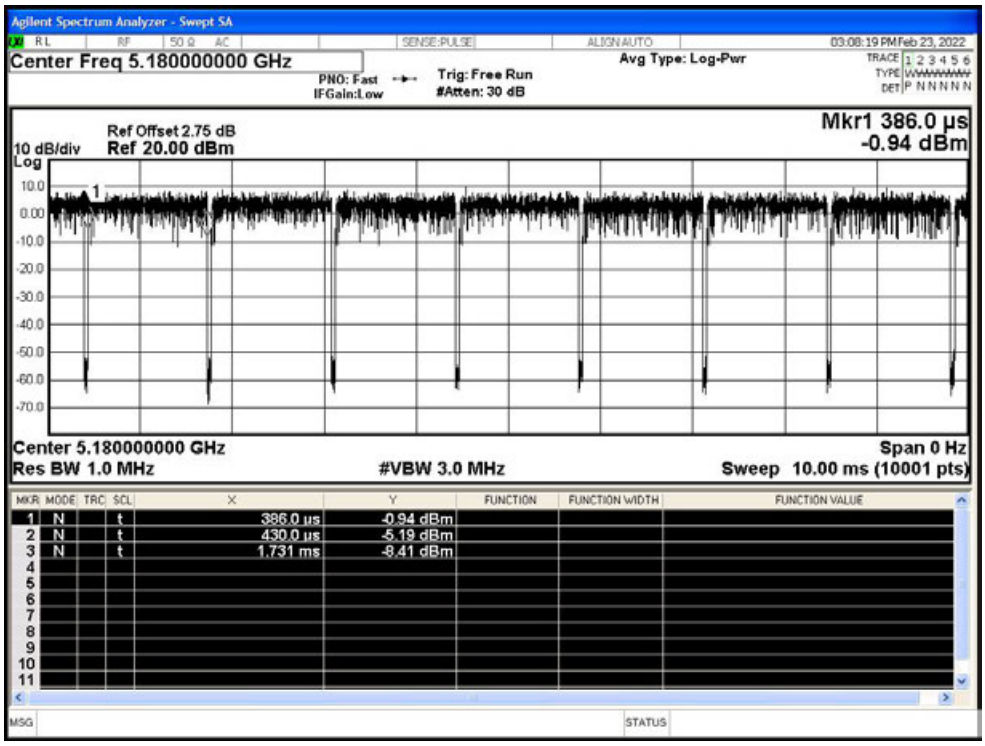
Duty Cycle NVNT a 5220MHz Ant1



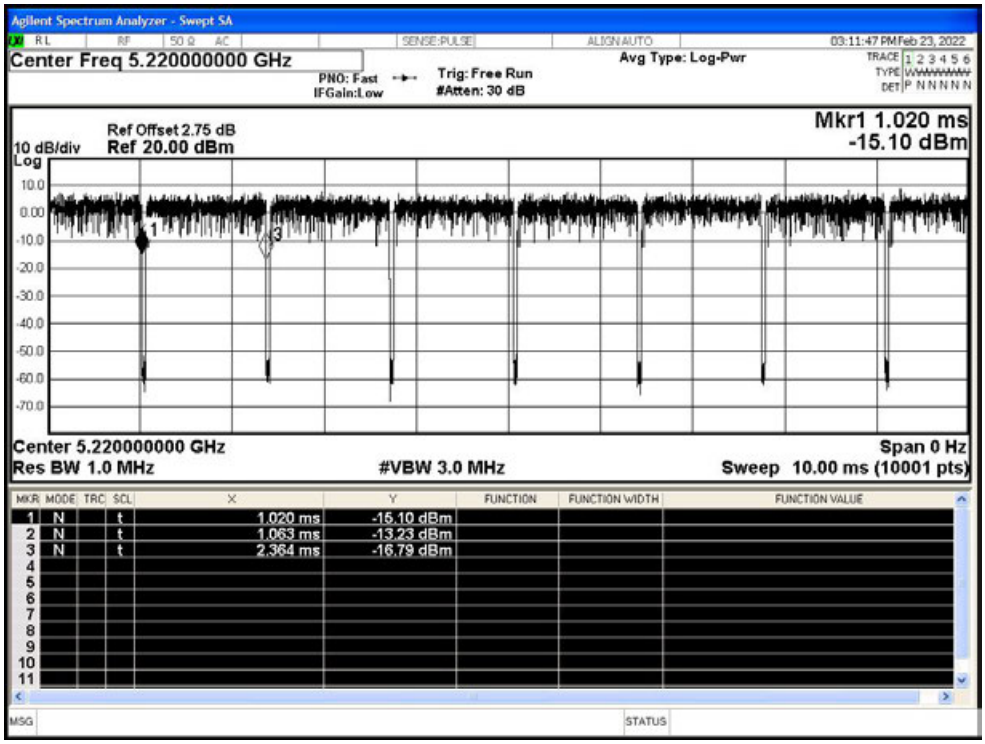
Duty Cycle NVNT a 5240MHz Ant1



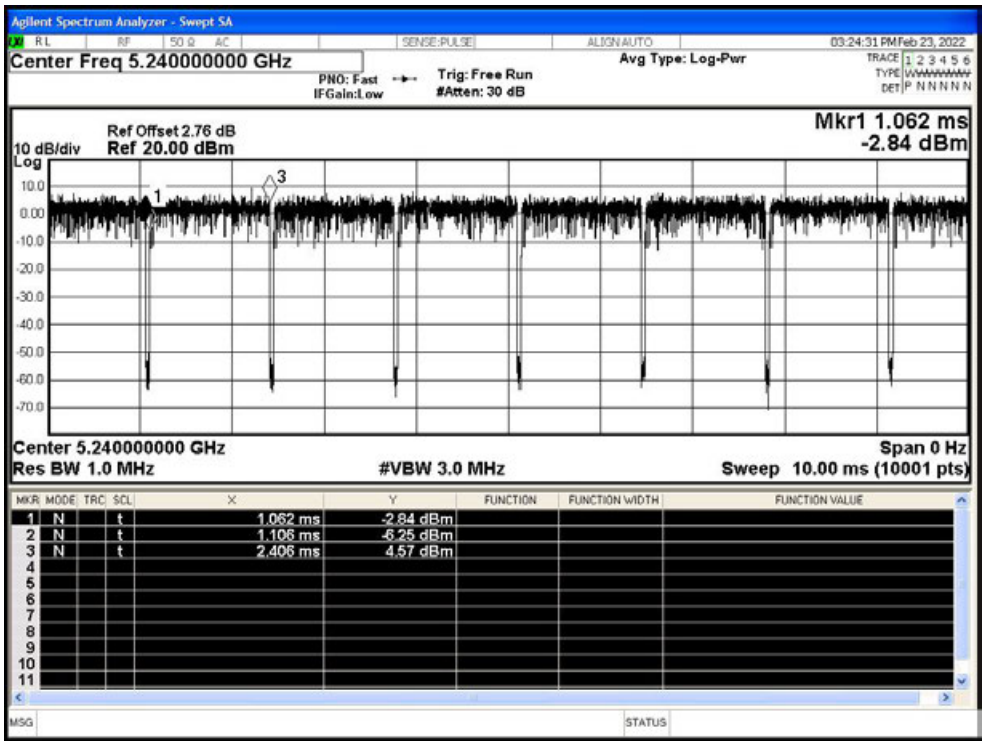
Duty Cycle NVNT n20 5180MHz Ant1



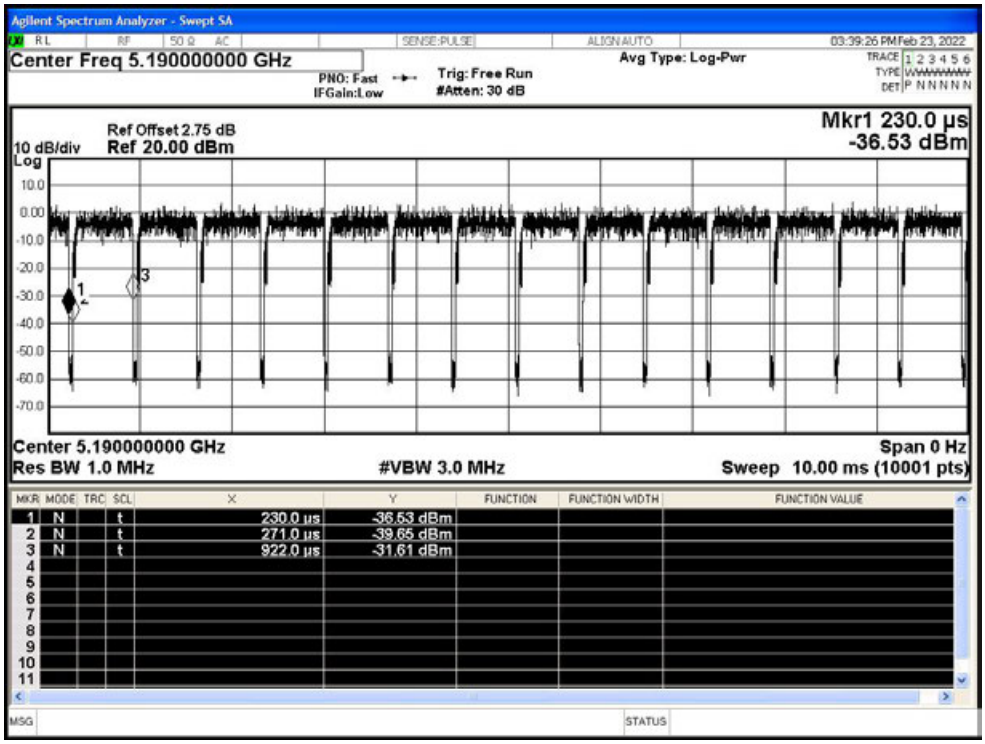
Duty Cycle NVNT n20 5220MHz Ant1



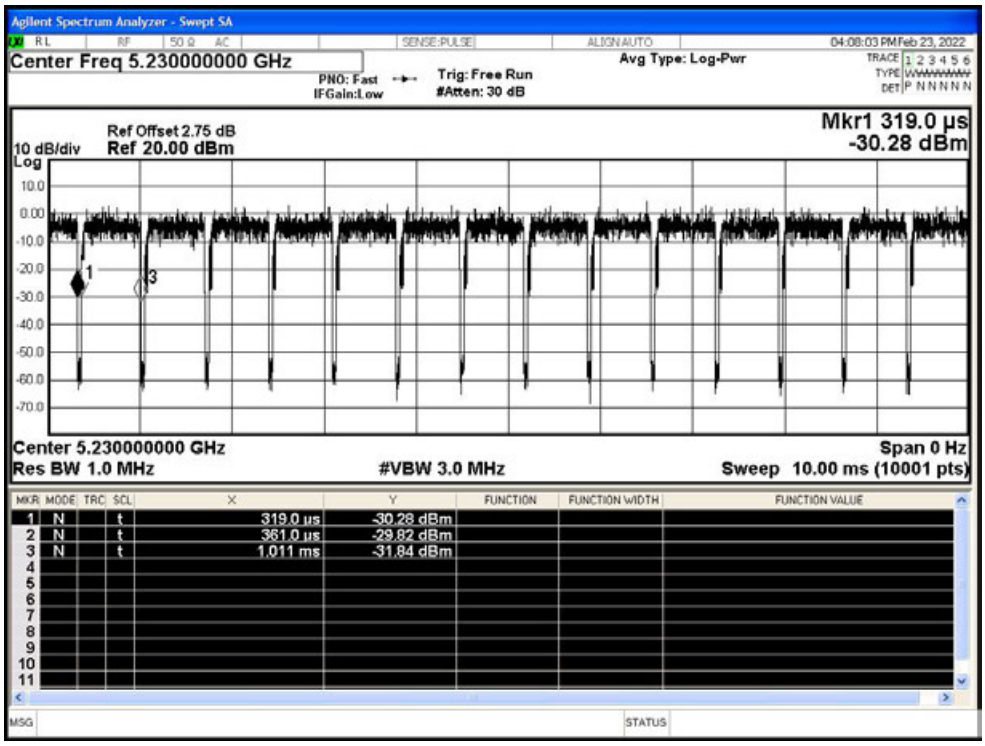
Duty Cycle NVNT n20 5240MHz Ant1



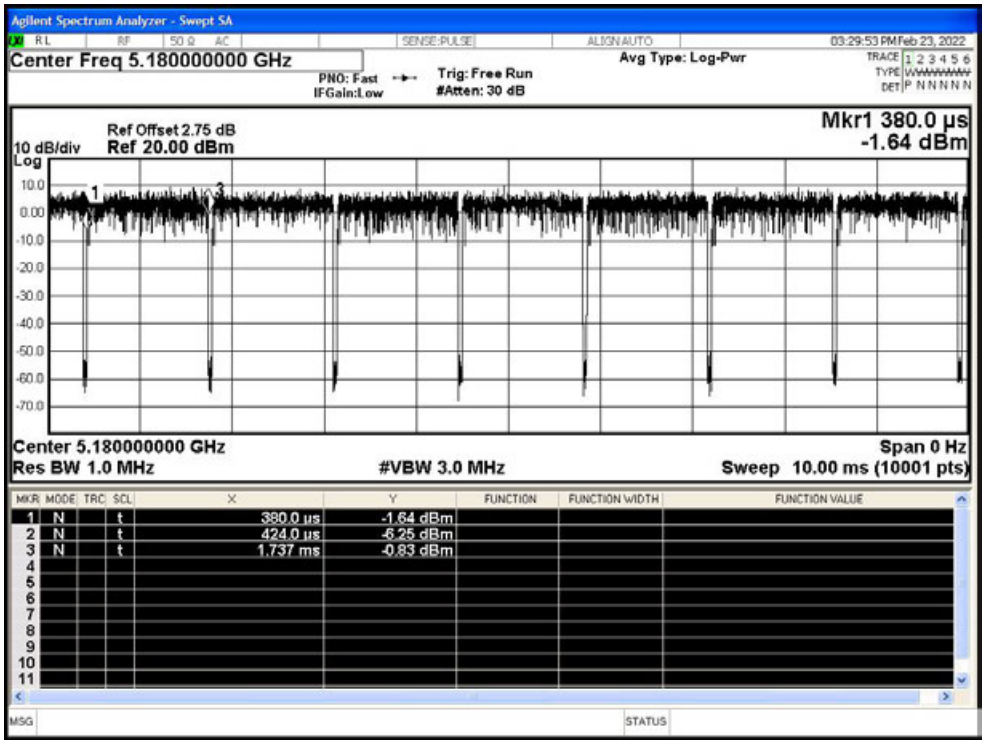
Duty Cycle NVNT n40 5190MHz Ant1



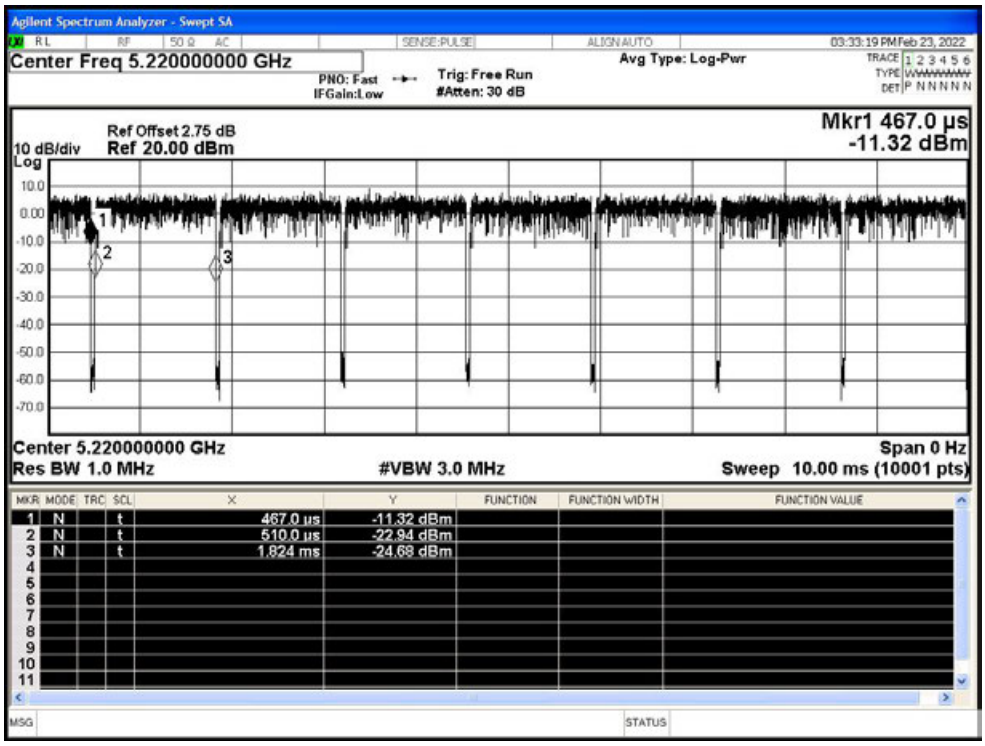
Duty Cycle NVNT n40 5230MHz Ant1



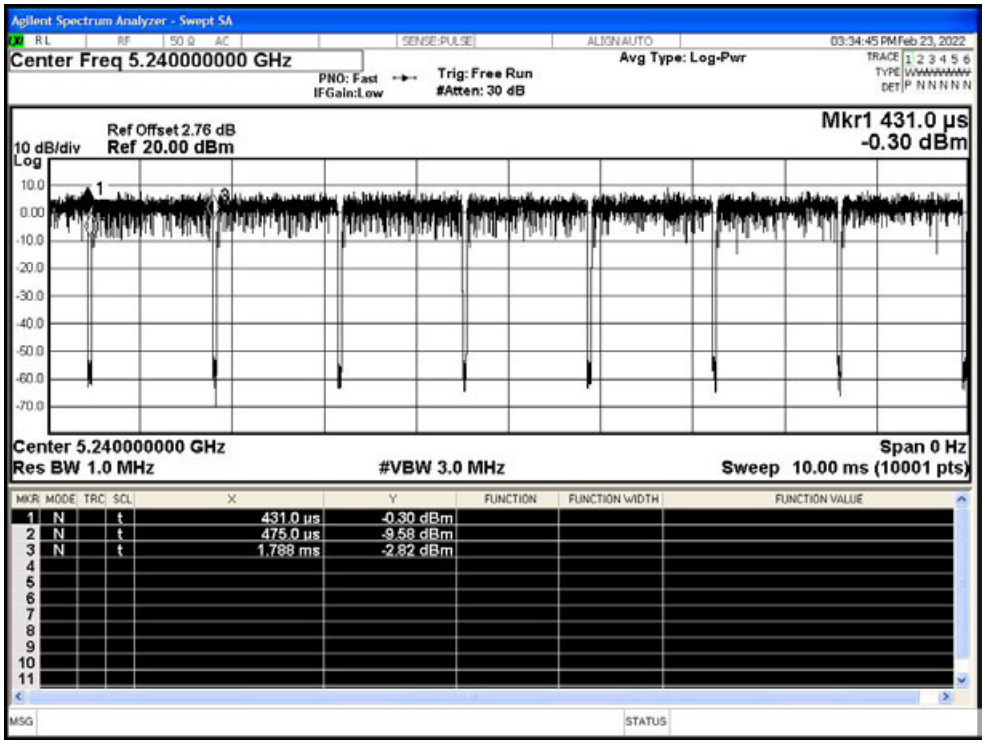
Duty Cycle NVNT ac20 5180MHz Ant1



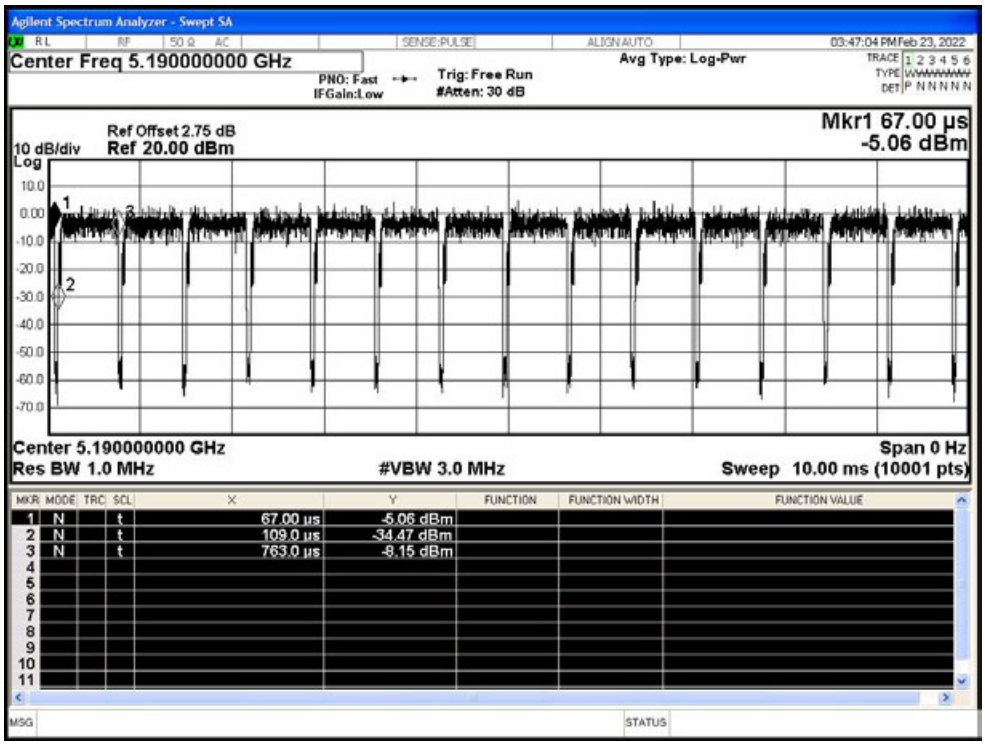
Duty Cycle NVNT ac20 5220MHz Ant1



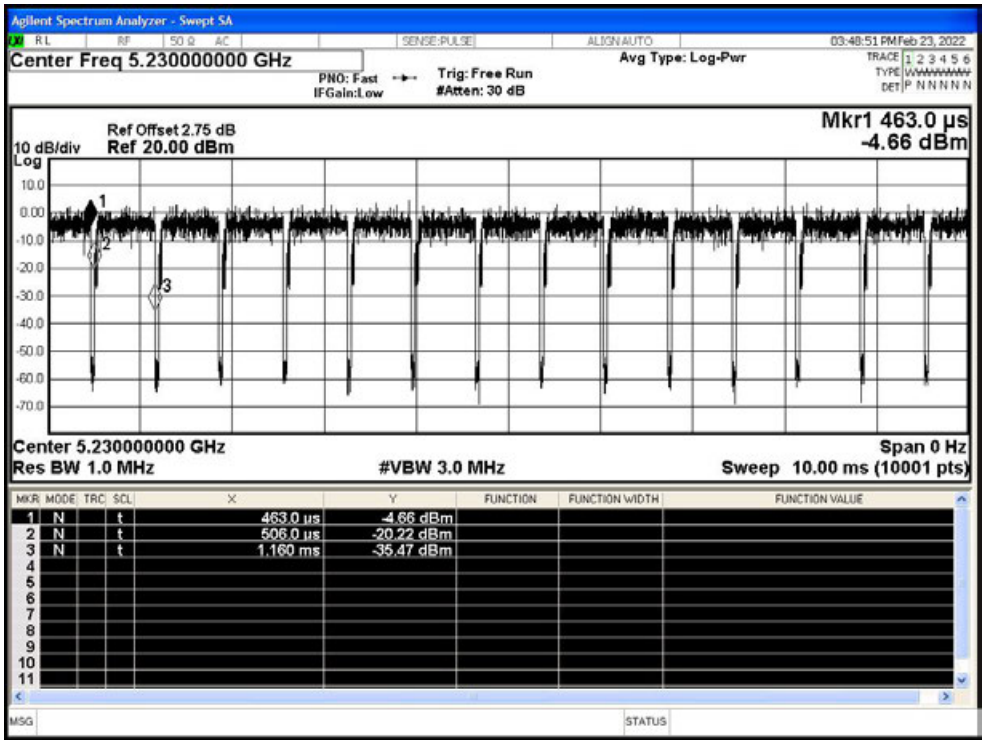
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1