Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: IRADUO PRO 5G

Environmental Conditions

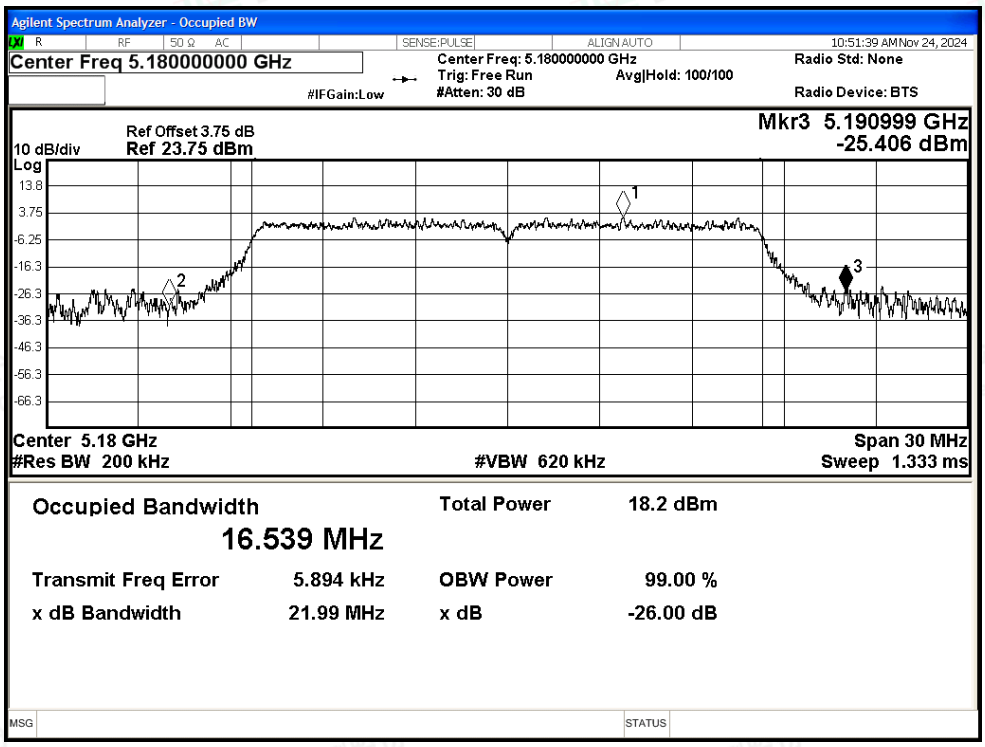
Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

D.1 -26dB Bandwidth

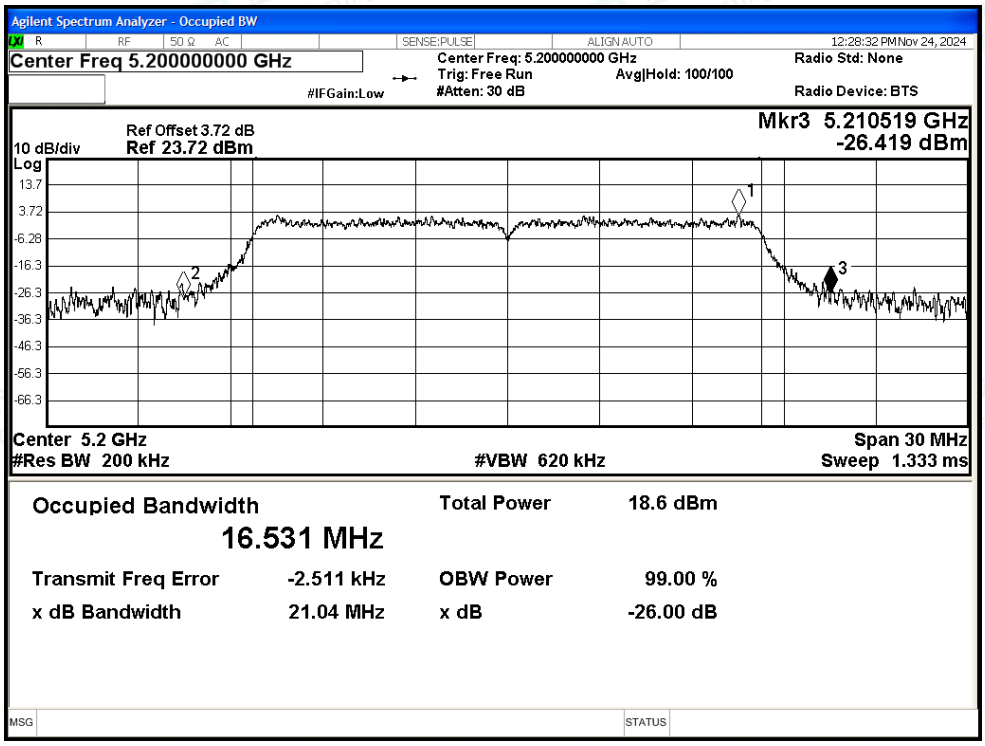
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant7	21.987	---	Pass
NVNT	a	5200	Ant7	21.043	---	Pass
NVNT	a	5240	Ant7	21.911	---	Pass
NVNT	n20	5180	Ant7	27.402	---	Pass
NVNT	n20	5200	Ant7	26.707	---	Pass
NVNT	n20	5240	Ant7	24.957	---	Pass
NVNT	n40	5190	Ant7	45.024	---	Pass
NVNT	n40	5230	Ant7	46.309	---	Pass
NVNT	ac20	5180	Ant7	26.529	---	Pass
NVNT	ac20	5200	Ant7	26.781	---	Pass
NVNT	ac20	5240	Ant7	25.068	---	Pass
NVNT	ac40	5190	Ant7	44.331	---	Pass
NVNT	ac40	5230	Ant7	44.263	---	Pass
NVNT	ac80	5210	Ant7	82.124	---	Pass

Test Graphs

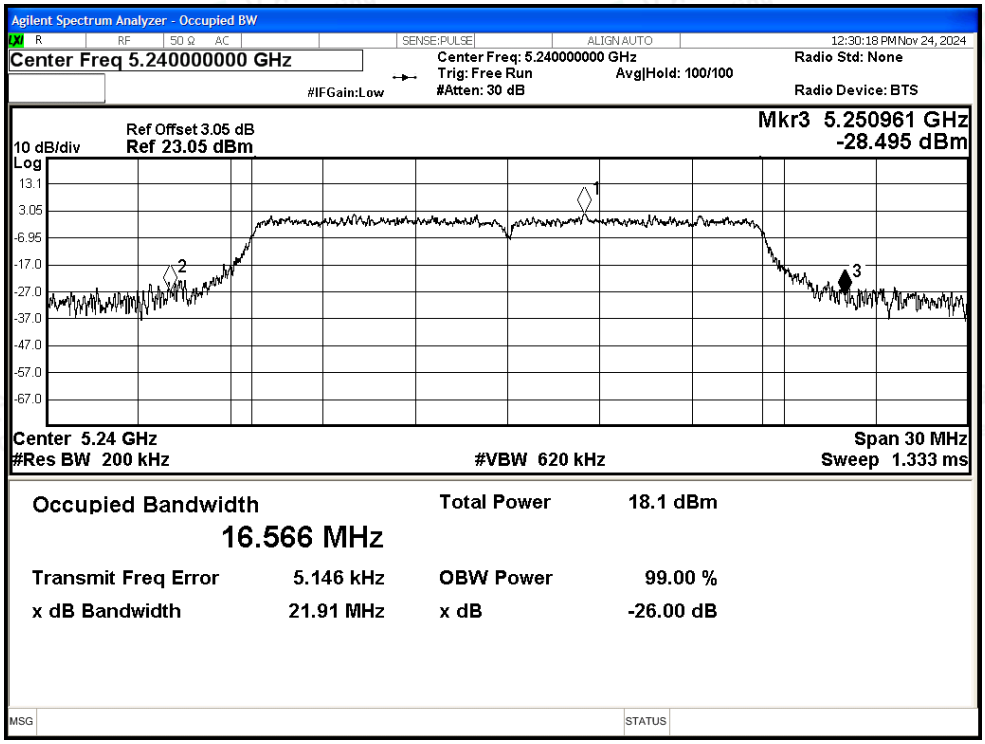
-26dB Bandwidth NVNT a 5180MHz Ant7



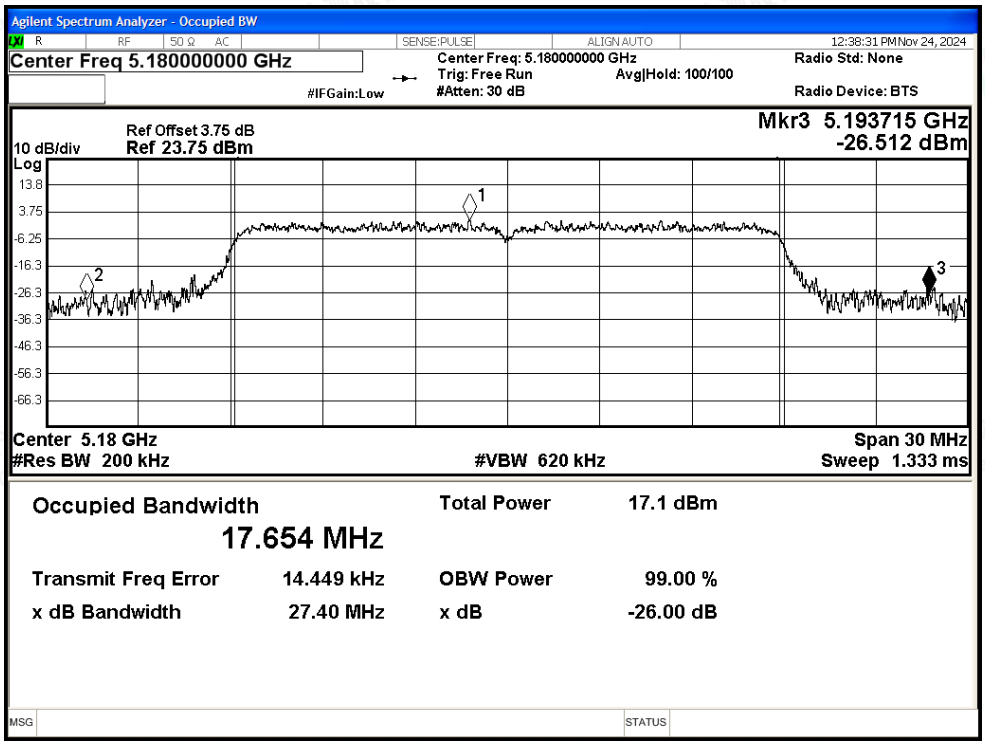
-26dB Bandwidth NVNT a 5200MHz Ant7



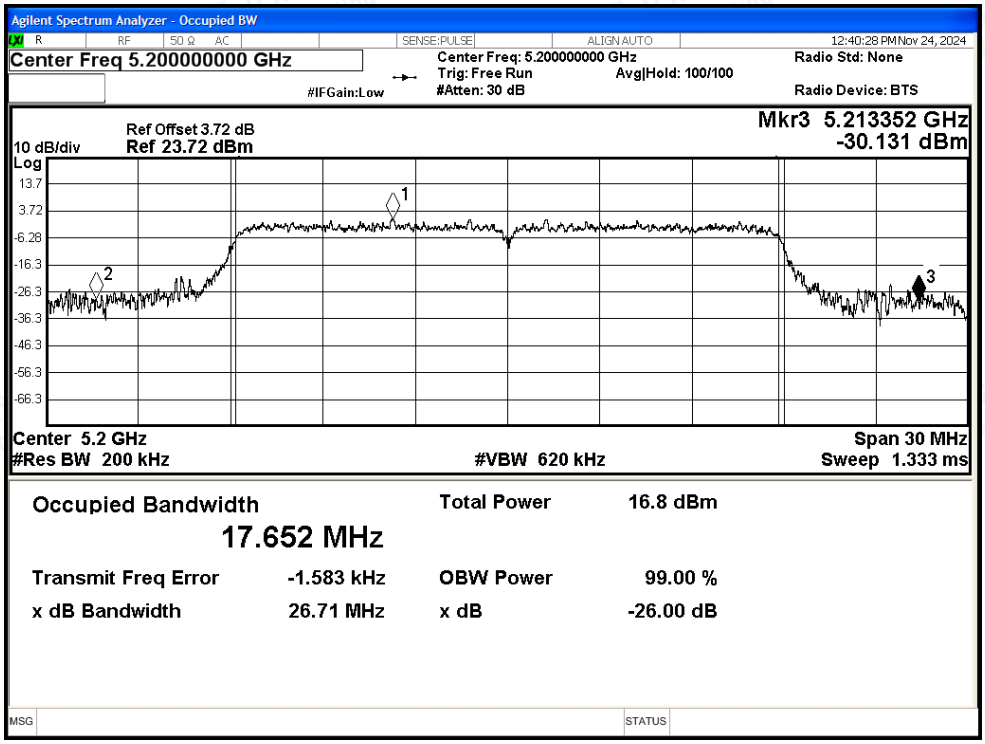
-26dB Bandwidth NVNT a 5240MHz Ant7



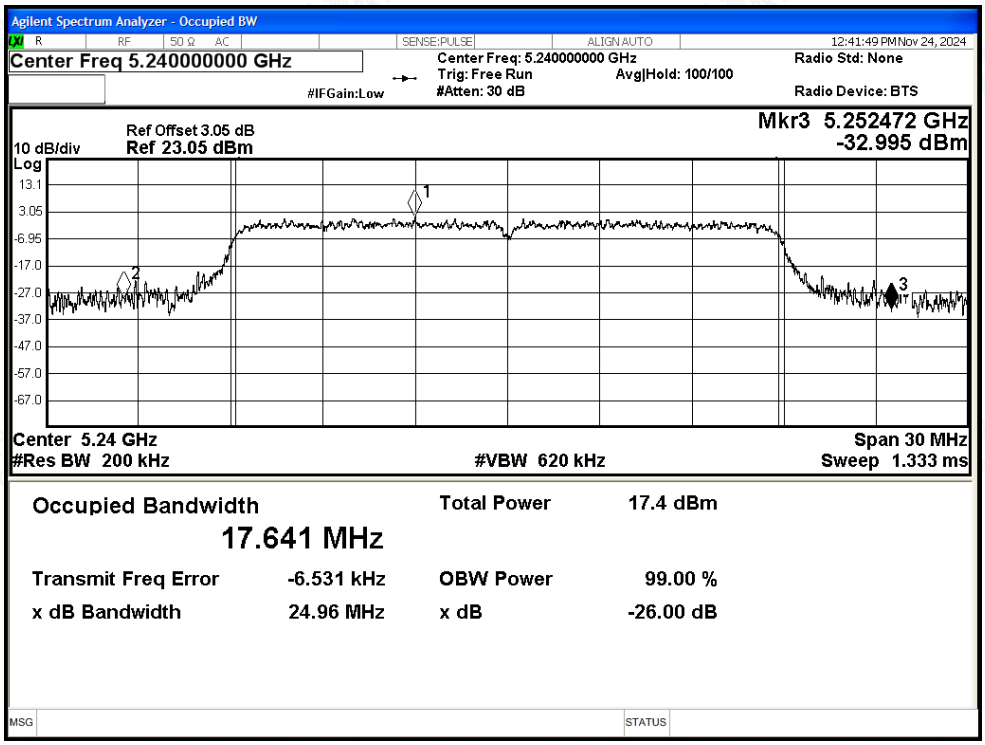
-26dB Bandwidth NVNT n20 5180MHz Ant7



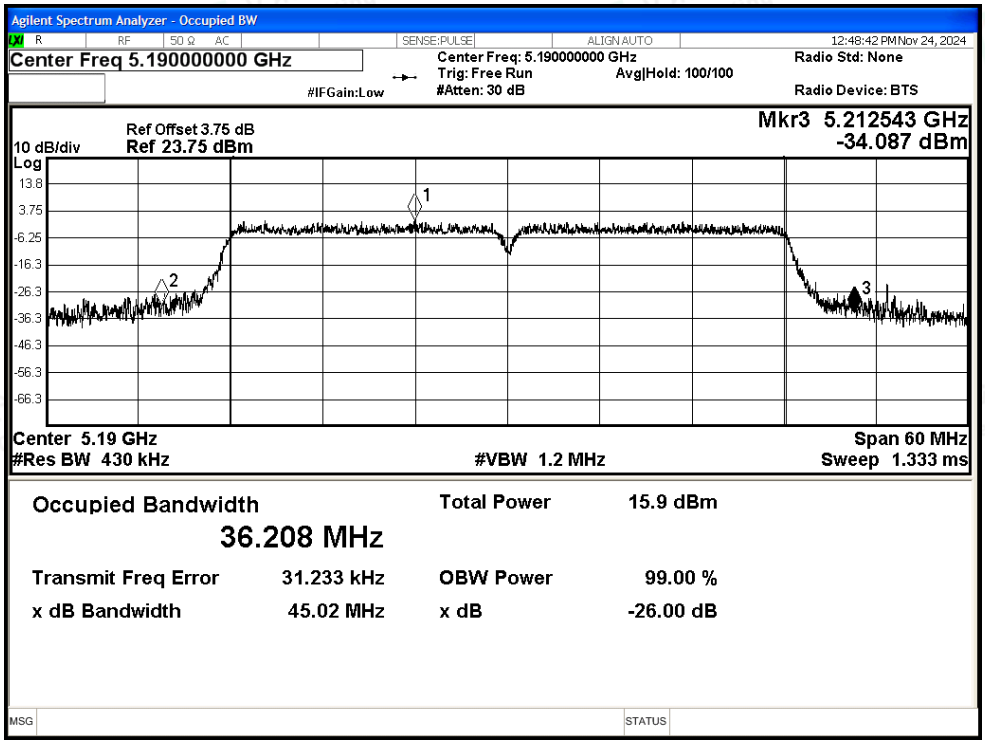
-26dB Bandwidth NVNT n20 5200MHz Ant7



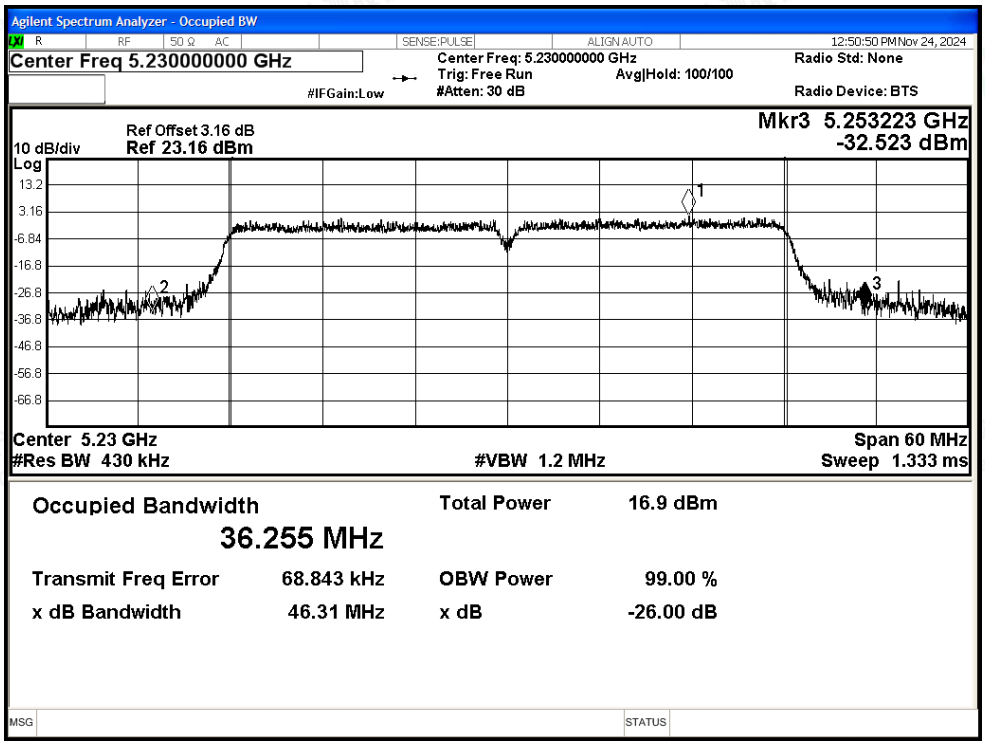
-26dB Bandwidth NVNT n20 5240MHz Ant7



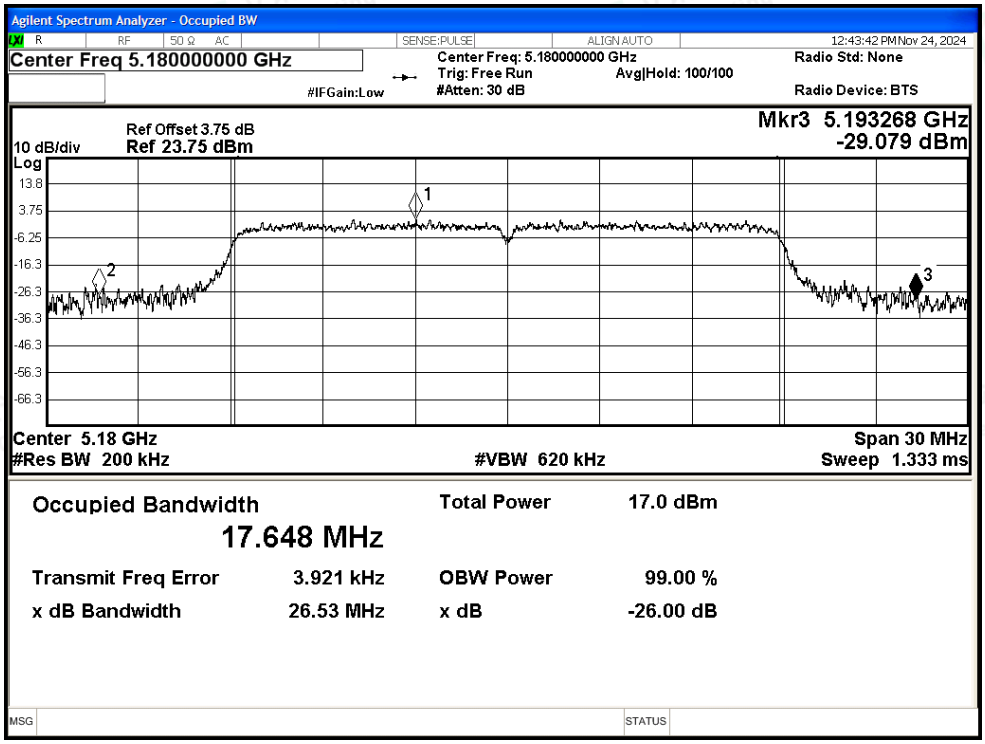
-26dB Bandwidth NVNT n40 5190MHz Ant7



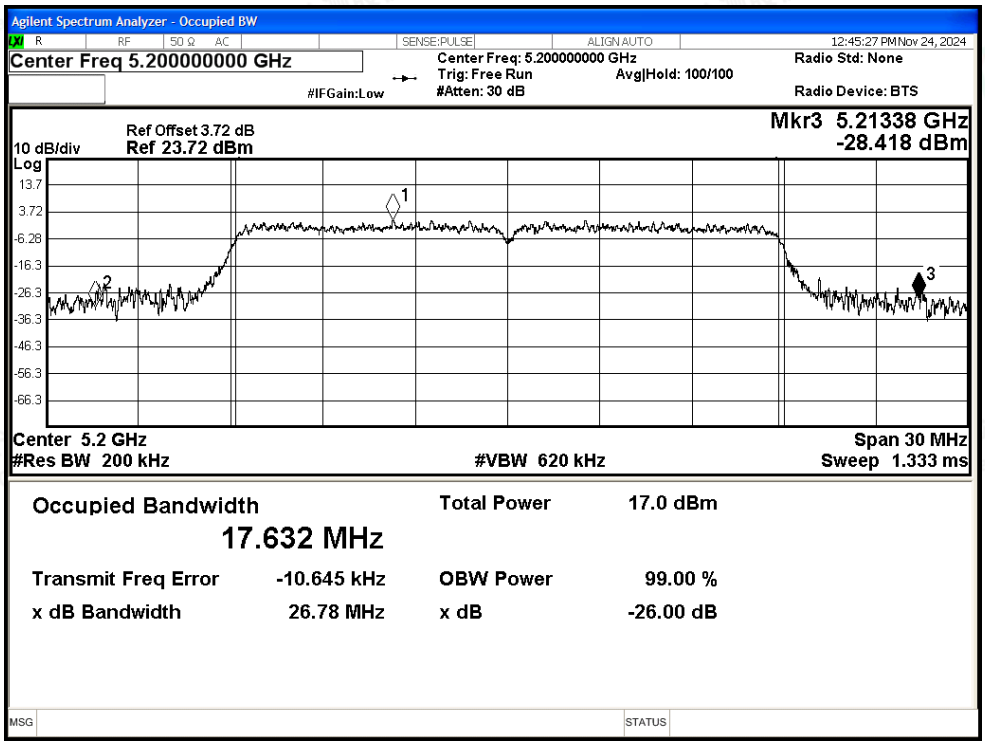
-26dB Bandwidth NVNT n40 5230MHz Ant7



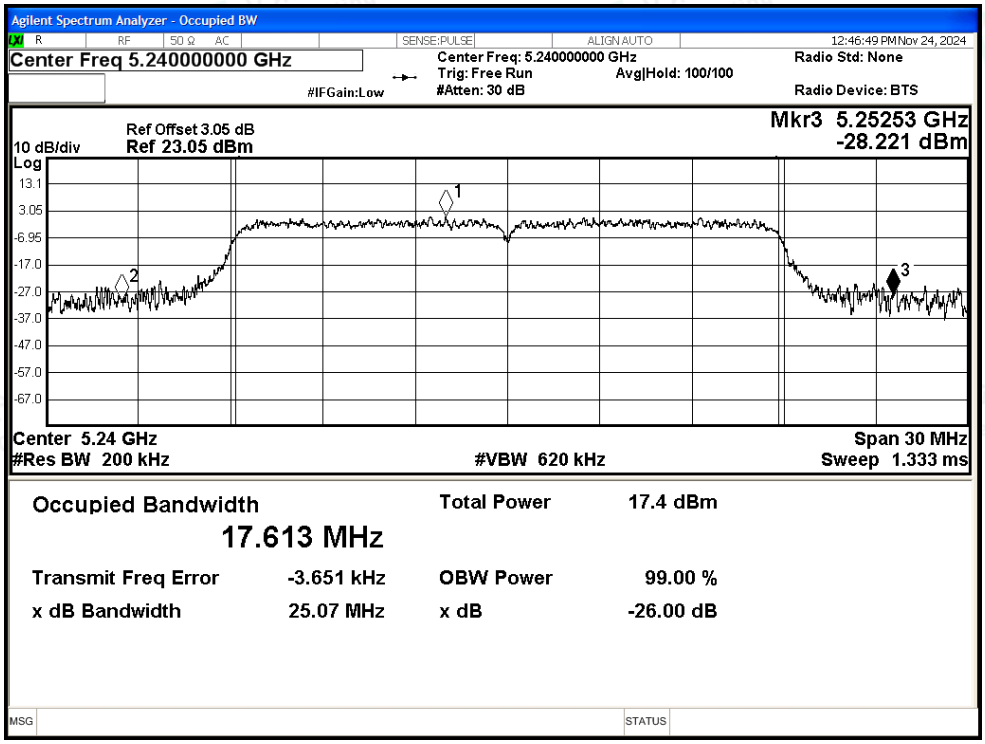
-26dB Bandwidth NVNT ac20 5180MHz Ant7



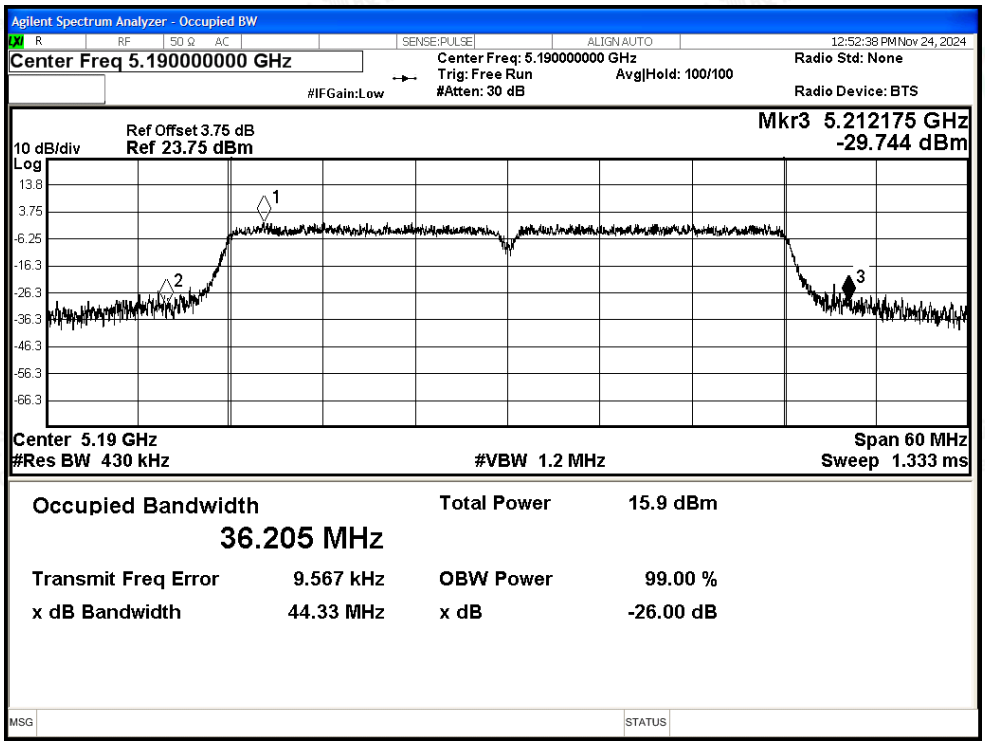
-26dB Bandwidth NVNT ac20 5200MHz Ant7



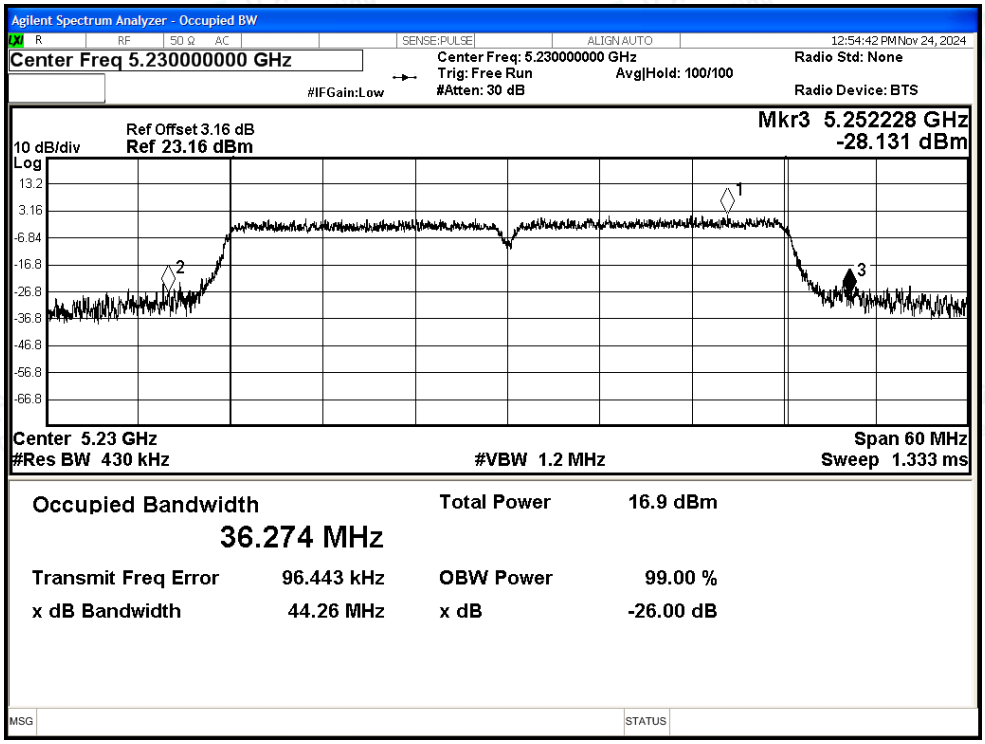
-26dB Bandwidth NVNT ac20 5240MHz Ant7



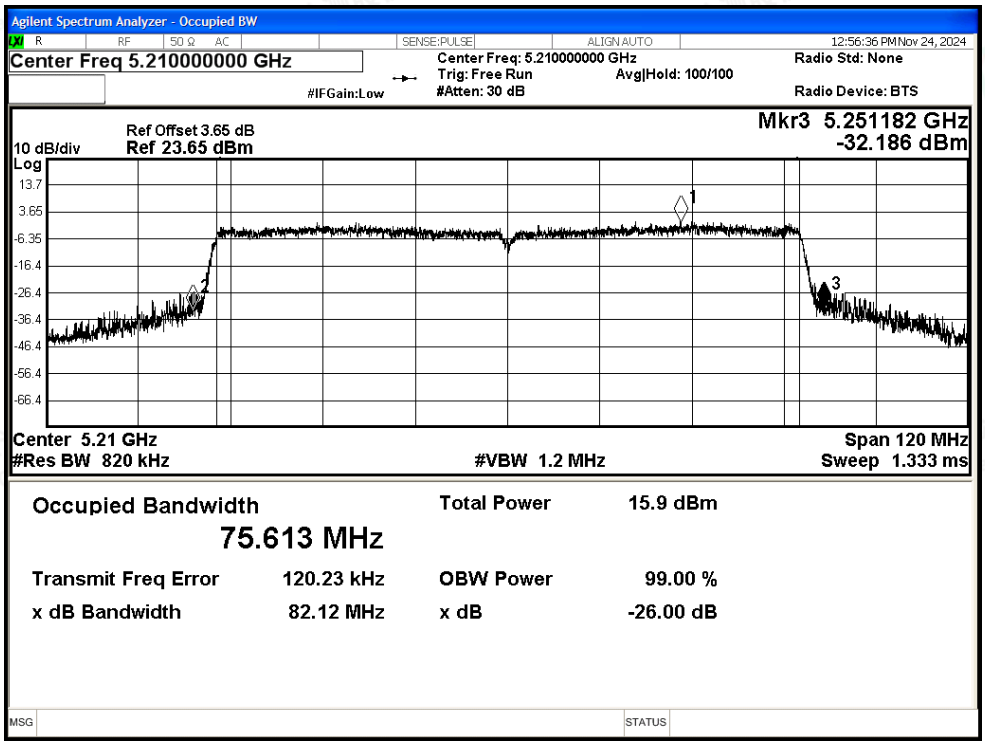
-26dB Bandwidth NVNT ac40 5190MHz Ant7



-26dB Bandwidth NVNT ac40 5230MHz Ant7



-26dB Bandwidth NVNT ac80 5210MHz Ant7



D.2 Maximum Conducted Output Power

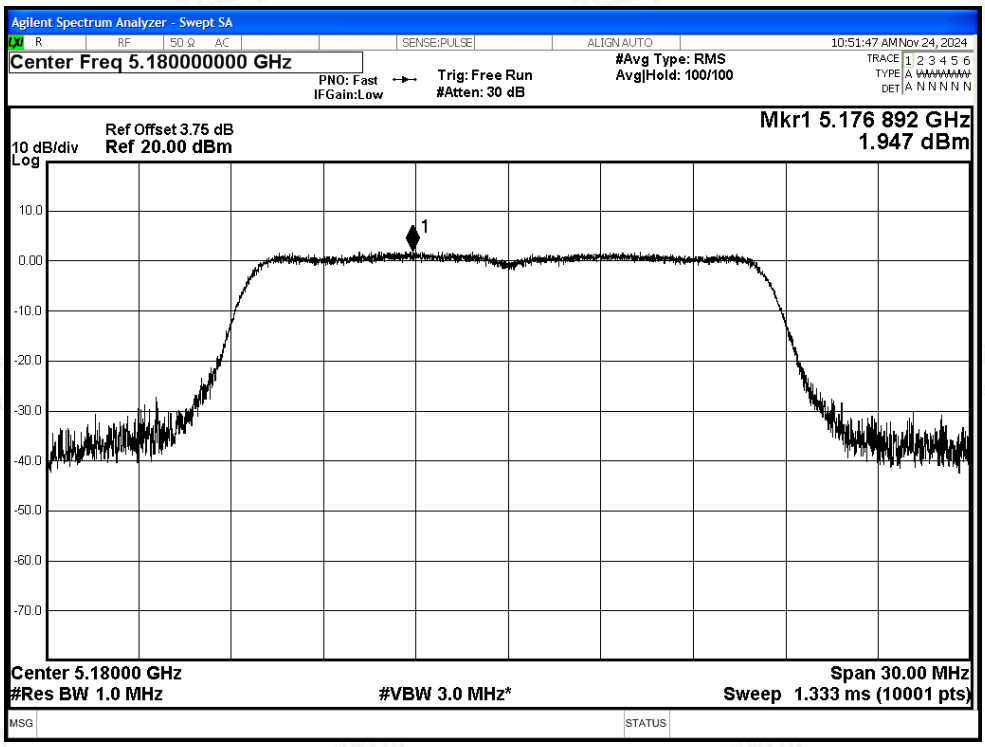
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant7	12.43	0.24	12.67	24	Pass
NVNT	a	5200	Ant7	12.8	0.24	13.04	24	Pass
NVNT	a	5240	Ant7	12.28	0.24	12.52	24	Pass
NVNT	n20	5180	Ant7	11.53	0.12	11.65	24	Pass
NVNT	n20	5200	Ant7	11.22	0.12	11.34	24	Pass
NVNT	n20	5240	Ant7	11.89	0.12	12.01	24	Pass
NVNT	n40	5190	Ant7	9.97	0.24	10.21	24	Pass
NVNT	n40	5230	Ant7	10.95	0.24	11.19	24	Pass
NVNT	ac20	5180	Ant7	11.52	0.12	11.64	24	Pass
NVNT	ac20	5200	Ant7	11.4	0.12	11.52	24	Pass
NVNT	ac20	5240	Ant7	11.88	0.12	12	24	Pass
NVNT	ac40	5190	Ant7	10.02	0.24	10.26	24	Pass
NVNT	ac40	5230	Ant7	10.91	0.24	11.15	24	Pass
NVNT	ac80	5210	Ant7	9.16	0.25	9.41	24	Pass

D.3 Maximum Power Spectral Density Level

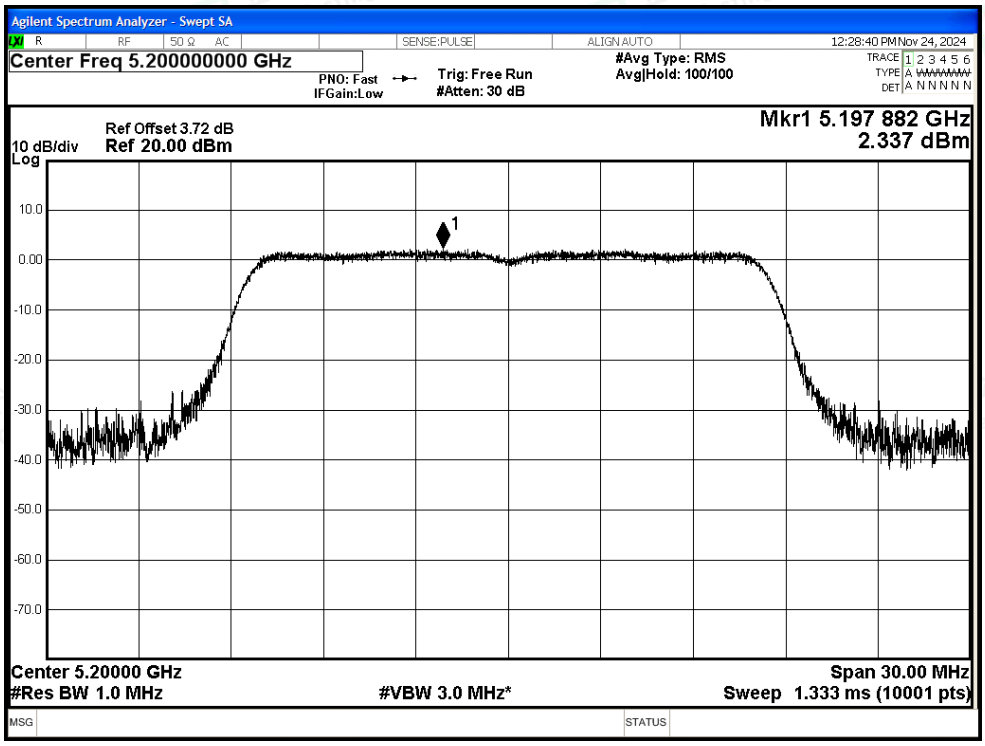
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant7	1.95	0.24	2.19	11	Pass
NVNT	a	5200	Ant7	2.34	0.24	2.58	11	Pass
NVNT	a	5240	Ant7	1.76	0.24	2	11	Pass
NVNT	n20	5180	Ant7	0.92	0.12	1.04	11	Pass
NVNT	n20	5200	Ant7	0.55	0.12	0.67	11	Pass
NVNT	n20	5240	Ant7	1.13	0.12	1.25	11	Pass
NVNT	n40	5190	Ant7	-3.66	0.24	-3.42	11	Pass
NVNT	n40	5230	Ant7	-2.36	0.24	-2.12	11	Pass
NVNT	ac20	5180	Ant7	0.76	0.12	0.88	11	Pass
NVNT	ac20	5200	Ant7	1.24	0.12	1.36	11	Pass
NVNT	ac20	5240	Ant7	0.92	0.12	1.04	11	Pass
NVNT	ac40	5190	Ant7	-4.05	0.24	-3.81	11	Pass
NVNT	ac40	5230	Ant7	-2.22	0.24	-1.98	11	Pass
NVNT	ac80	5210	Ant7	-6.78	0.25	-6.53	11	Pass

Test Graphs

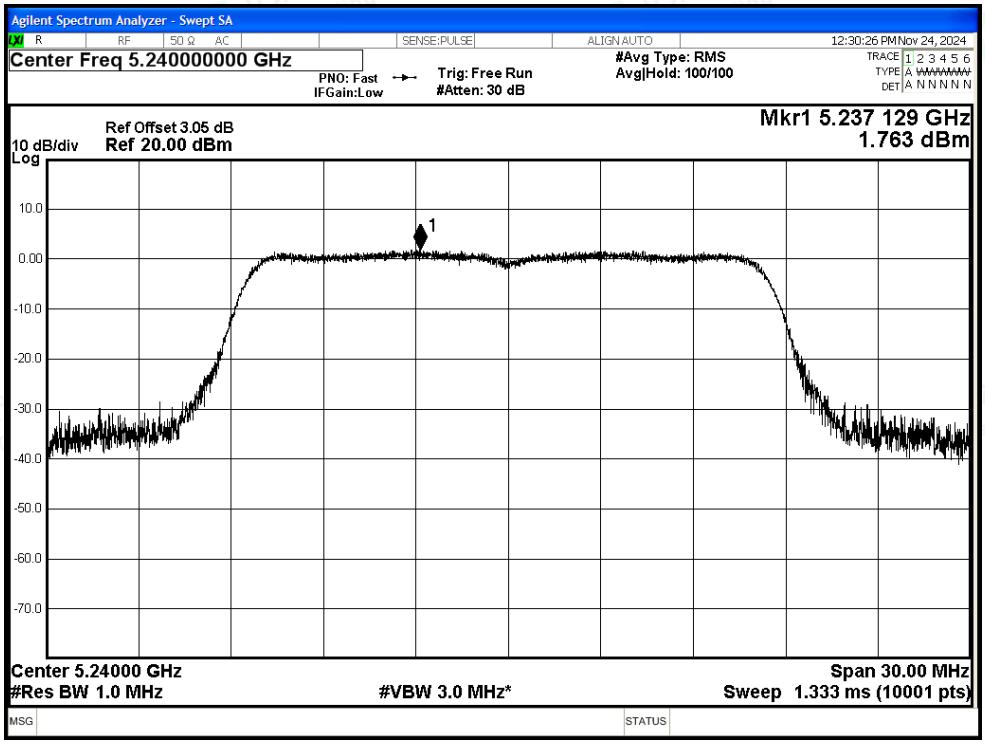
PSD NVNT a 5180MHz Ant7



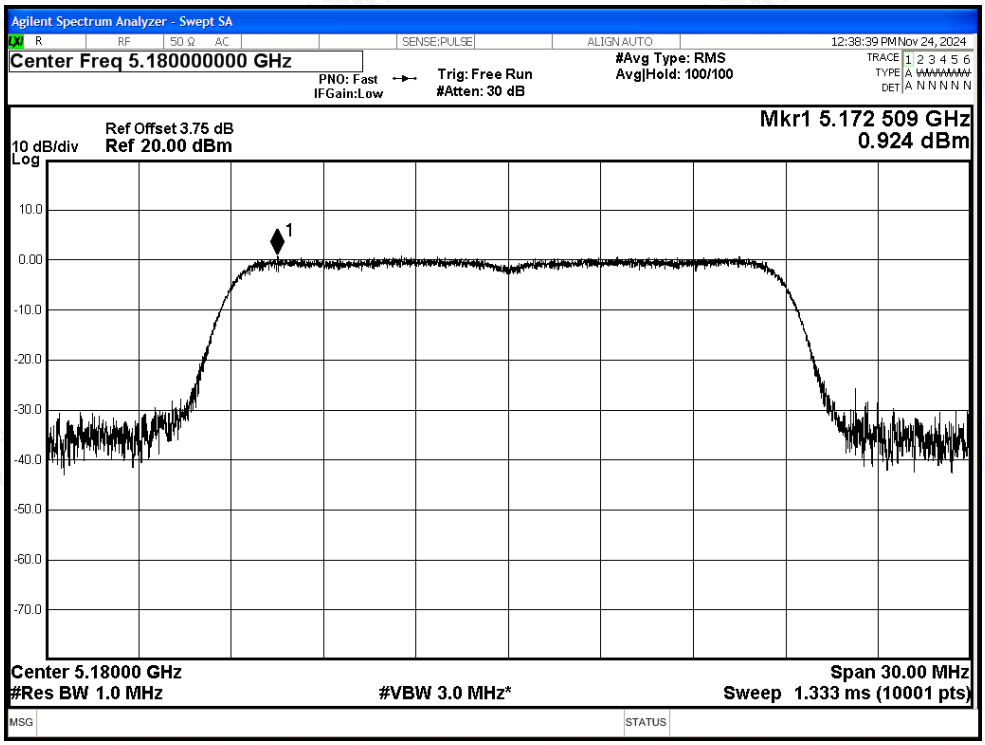
PSD NVNT a 5200MHz Ant7



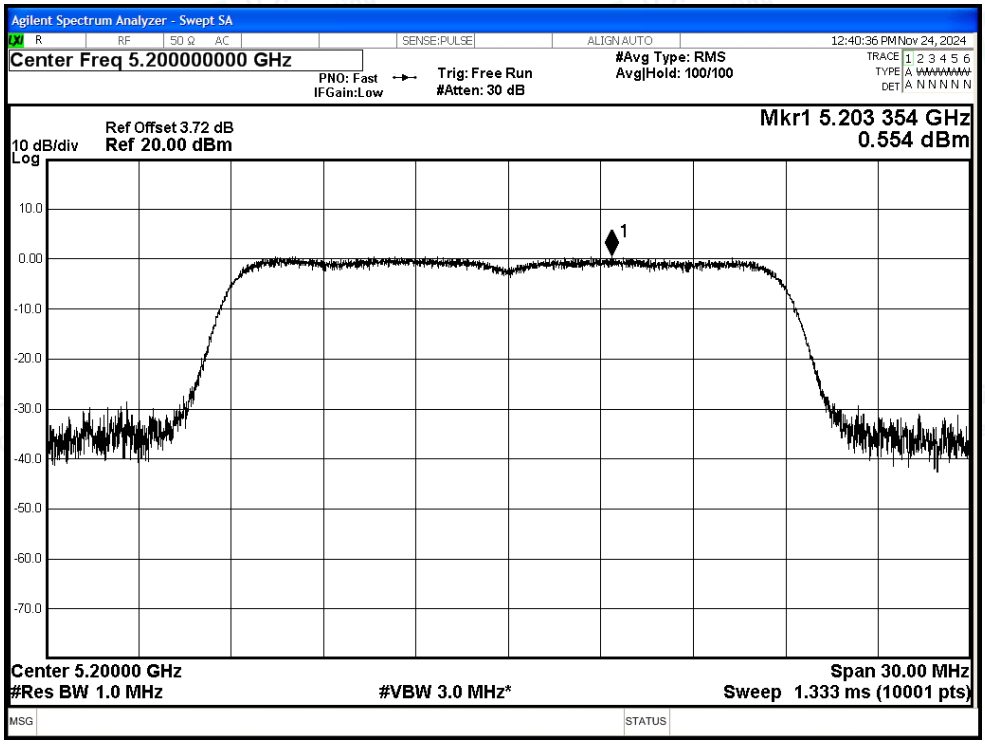
PSD NVNT a 5240MHz Ant7



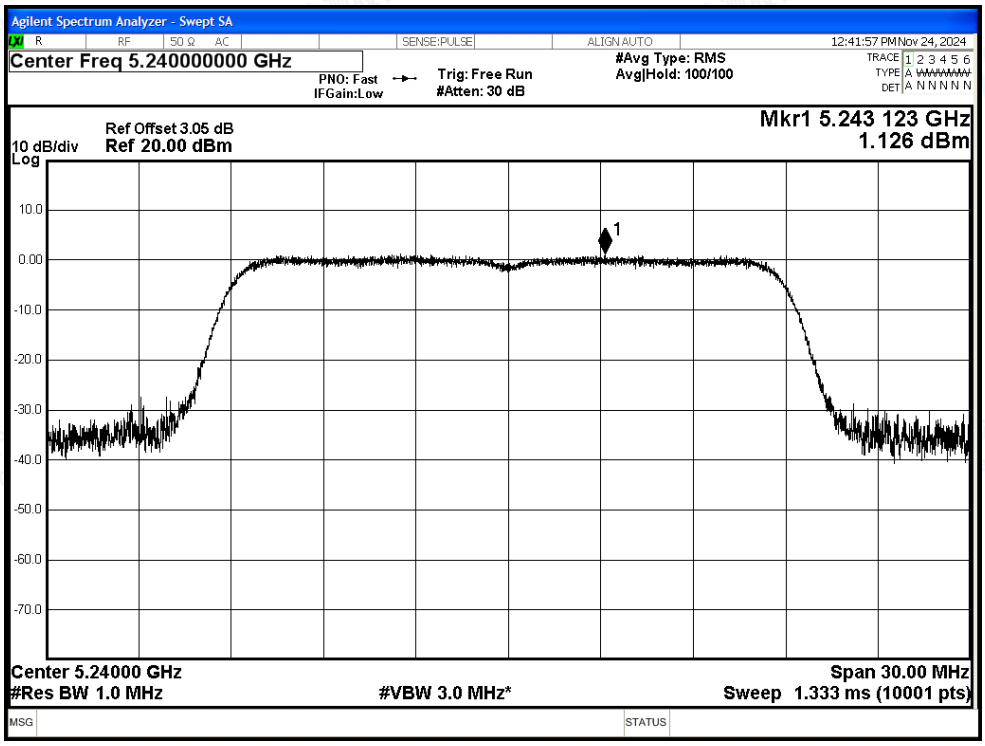
PSD NVNT n20 5180MHz Ant7



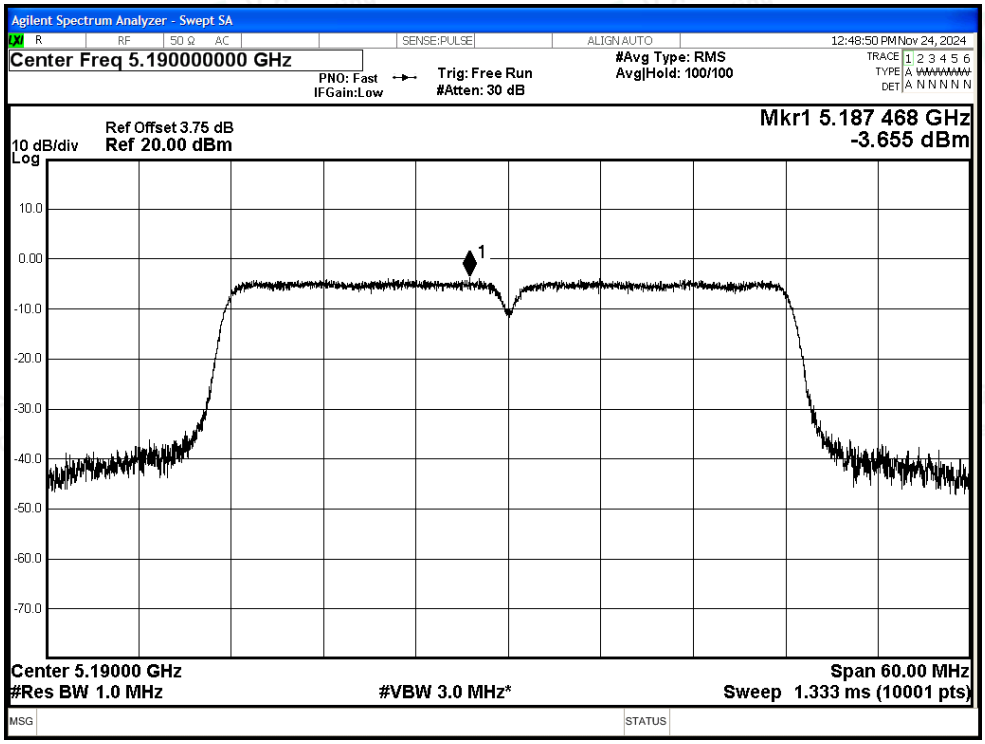
PSD NVNT n20 5200MHz Ant7



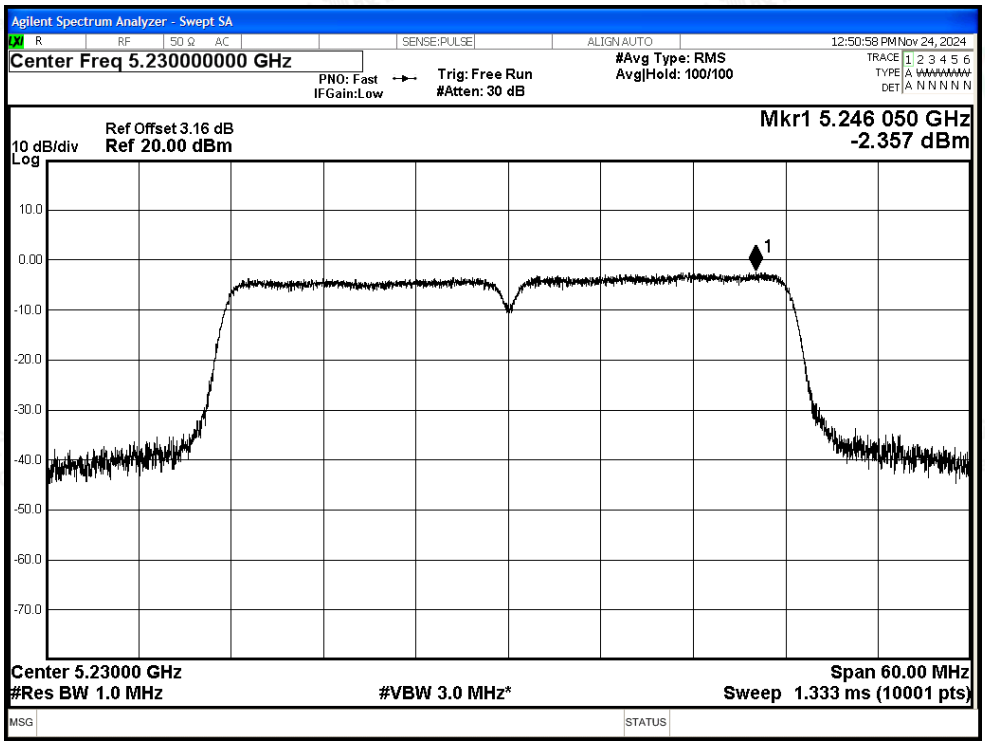
PSD NVNT n20 5240MHz Ant7



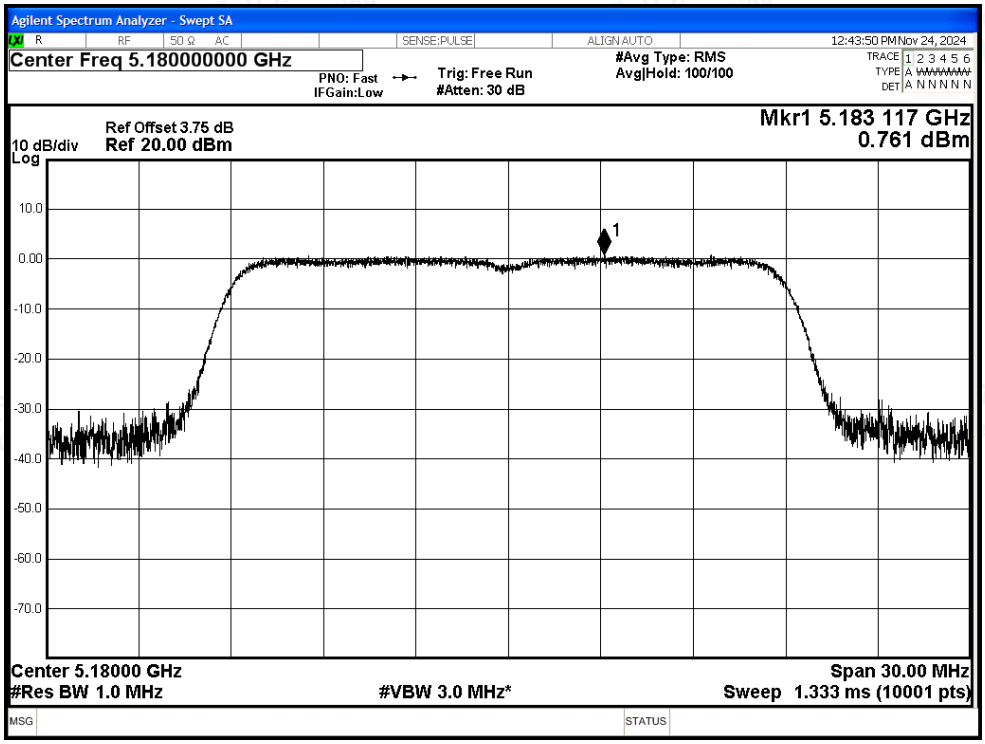
PSD NVNT n40 5190MHz Ant7



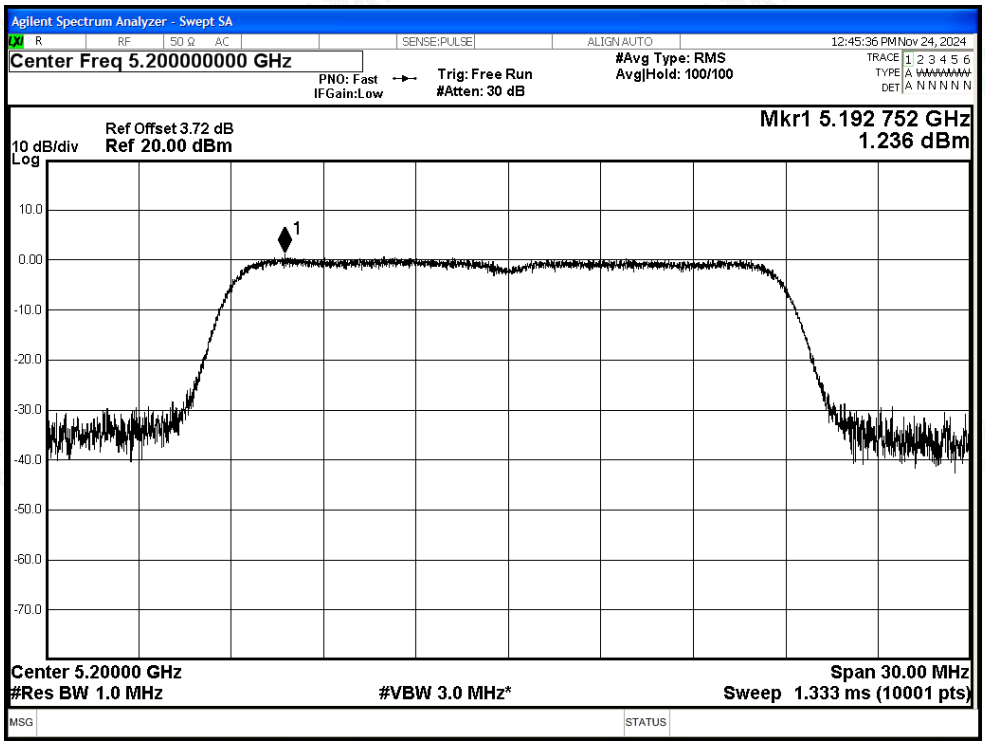
PSD NVNT n40 5230MHz Ant7



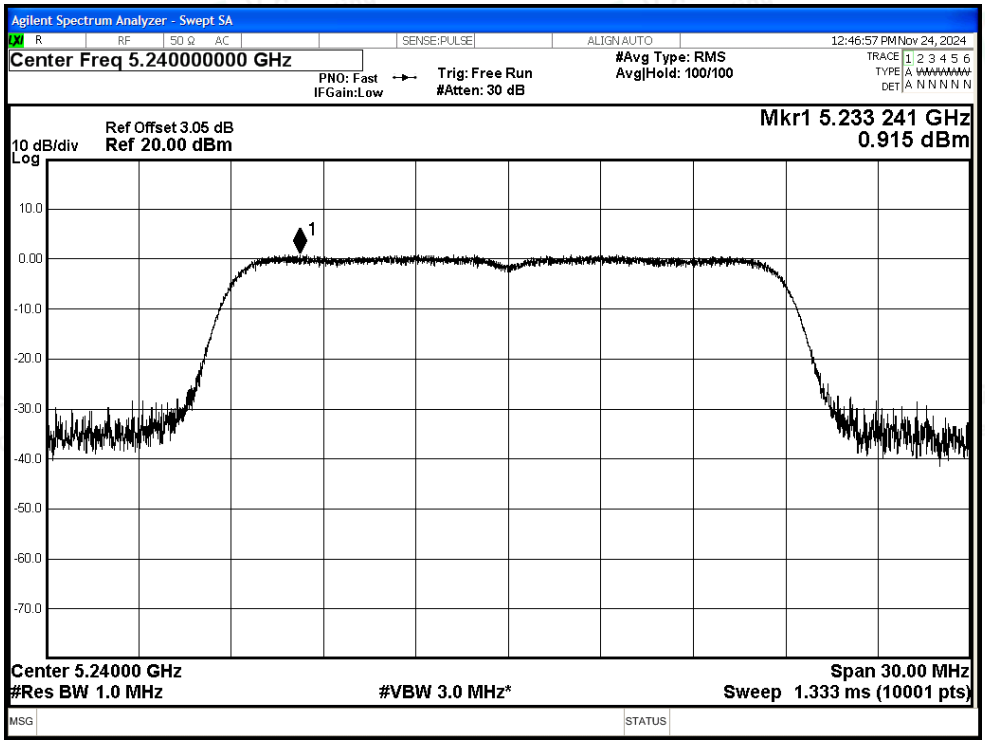
PSD NVNT ac20 5180MHz Ant7



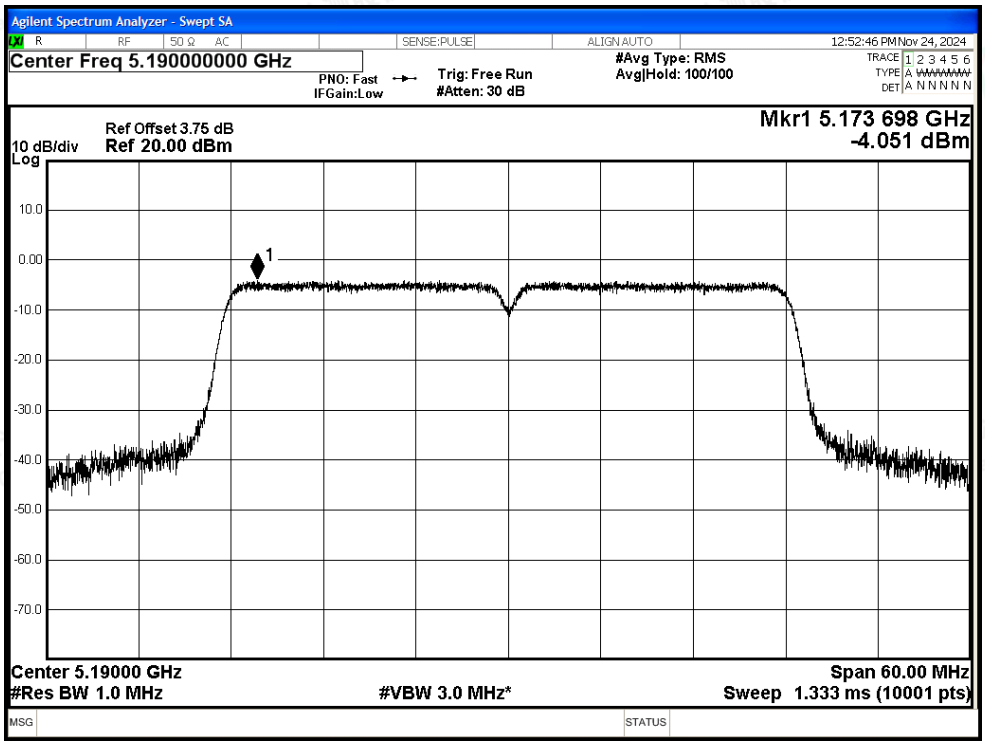
PSD NVNT ac20 5200MHz Ant7



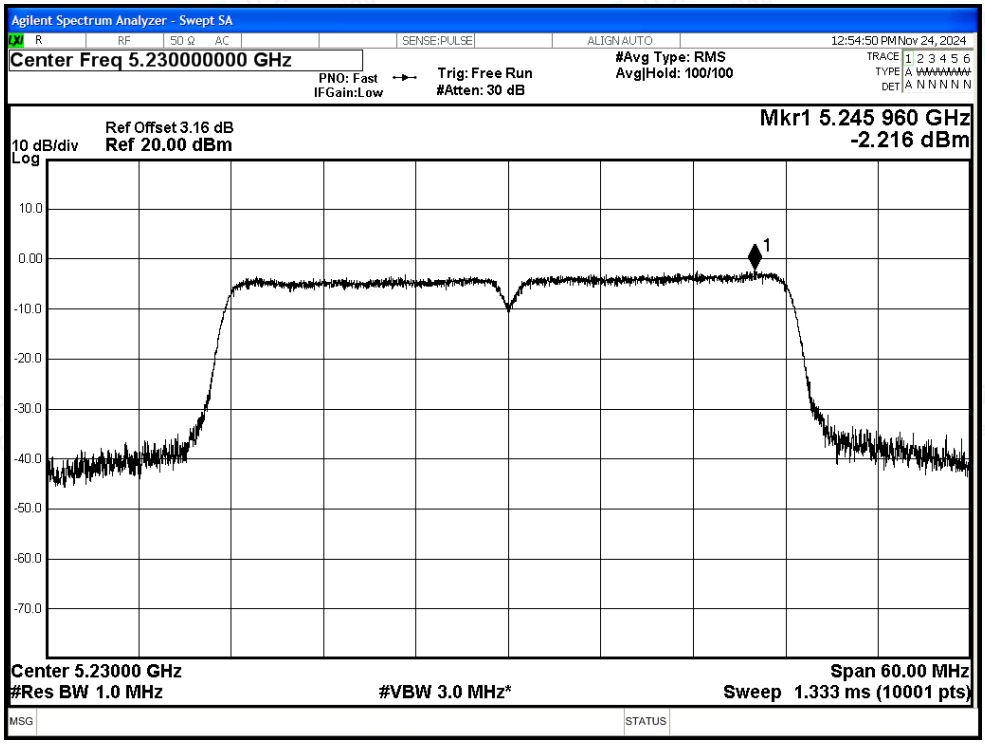
PSD NVNT ac20 5240MHz Ant7



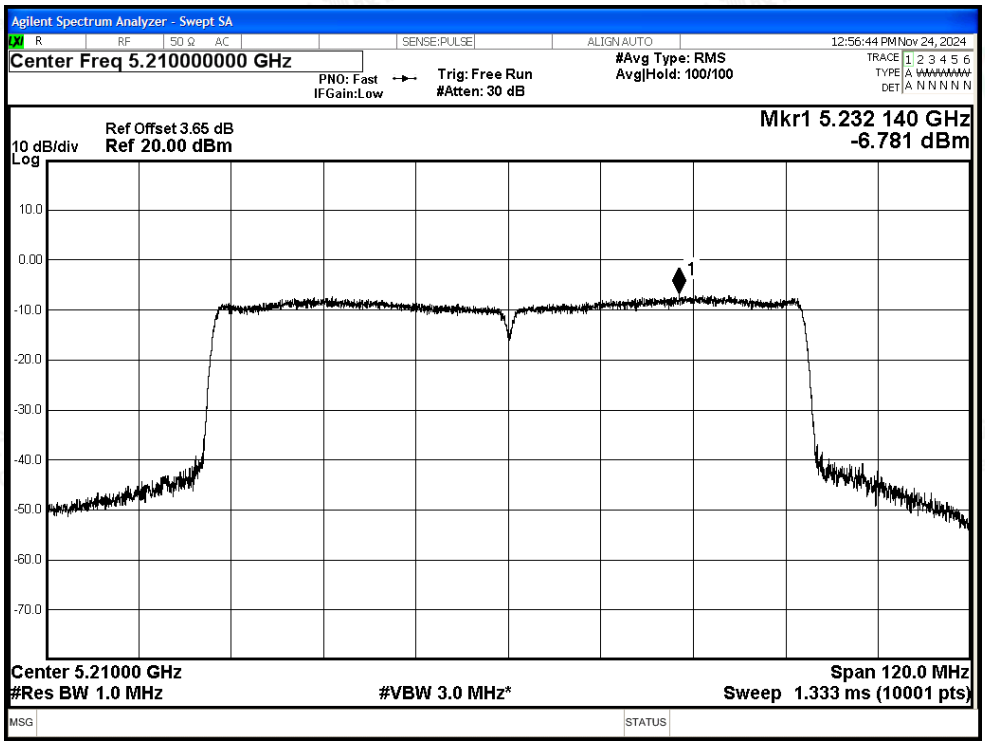
PSD NVNT ac40 5190MHz Ant7



PSD NVNT ac40 5230MHz Ant7



PSD NVNT ac80 5210MHz Ant7



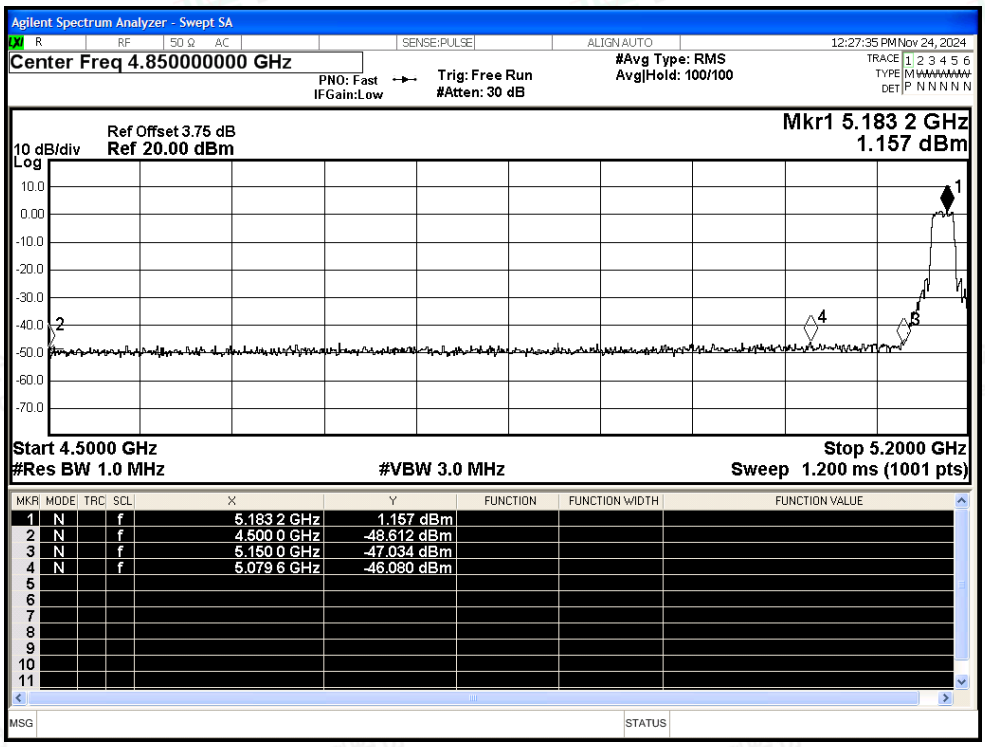
D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant7	4500	-48.61	2	-	48.62	Peak	68.2	Pass
NVNT	a	5180	Ant7	4500	-57.93	2	0.24	39.54	Average	54	Pass
NVNT	a	5180	Ant7	5079.6	-46.08	2	-	51.15	Peak	68.2	Pass
NVNT	a	5180	Ant7	5146.8	-55.53	2	0.24	41.94	Average	54	Pass
NVNT	a	5180	Ant7	5150	-47.03	2	-	50.2	Peak	68.2	Pass
NVNT	a	5180	Ant7	5150	-54.66	2	0.24	42.81	Average	54	Pass
NVNT	a	5240	Ant7	5350	-50.73	2	-	46.5	Peak	68.2	Pass
NVNT	a	5240	Ant7	5350	-58.32	2	0.24	39.15	Average	54	Pass
NVNT	a	5240	Ant7	5358	-46.1	2	-	51.13	Peak	68.2	Pass
NVNT	a	5240	Ant7	5370	-57.3	2	0.24	40.17	Average	54	Pass
NVNT	a	5240	Ant7	5460	-49.29	2	-	47.94	Peak	68.2	Pass
NVNT	a	5240	Ant7	5460	-57.78	2	0.24	39.69	Average	54	Pass
NVNT	n20	5180	Ant7	4500	-50.87	2	-	46.36	Peak	68.2	Pass
NVNT	n20	5180	Ant7	4500	-58.59	2	0.12	38.76	Average	54	Pass
NVNT	n20	5180	Ant7	5068.4	-45.09	2	-	52.14	Peak	68.2	Pass
NVNT	n20	5180	Ant7	5149.6	-54.7	2	0.12	42.65	Average	54	Pass
NVNT	n20	5180	Ant7	5150	-44.64	2	-	52.59	Peak	68.2	Pass
NVNT	n20	5180	Ant7	5150	-54.46	2	0.12	42.89	Average	54	Pass
NVNT	n20	5240	Ant7	5350	-50.37	2	-	46.86	Peak	68.2	Pass
NVNT	n20	5240	Ant7	5350	-58.64	2	0.12	38.71	Average	54	Pass
NVNT	n20	5240	Ant7	5403.84	-46.51	2	-	50.72	Peak	68.2	Pass
NVNT	n20	5240	Ant7	5366.4	-57.15	2	0.12	40.2	Average	54	Pass
NVNT	n20	5240	Ant7	5460	-50.43	2	-	46.8	Peak	68.2	Pass
NVNT	n20	5240	Ant7	5460	-58.23	2	0.12	39.12	Average	54	Pass
NVNT	n40	5190	Ant7	4500	-51.46	2	-	45.77	Peak	68.2	Pass
NVNT	n40	5190	Ant7	4500	-58.95	2	0.24	38.52	Average	54	Pass
NVNT	n40	5190	Ant7	5148.97	-41.21	2	-	56.02	Peak	68.2	Pass
NVNT	n40	5190	Ant7	5148.97	-54.2	2	0.24	43.27	Average	54	Pass
NVNT	n40	5190	Ant7	5150	-43.82	2	-	53.41	Peak	68.2	Pass
NVNT	n40	5190	Ant7	5150	-54.73	2	0.24	42.74	Average	54	Pass
NVNT	n40	5230	Ant7	5350	-49.95	2	-	47.28	Peak	68.2	Pass
NVNT	n40	5230	Ant7	5350	-57.3	2	0.24	40.17	Average	54	Pass
NVNT	n40	5230	Ant7	5374.41	-46.62	2	-	50.61	Peak	68.2	Pass
NVNT	n40	5230	Ant7	5350.65	-56.98	2	0.24	40.49	Average	54	Pass
NVNT	n40	5230	Ant7	5460	-49.6	2	-	47.63	Peak	68.2	Pass
NVNT	n40	5230	Ant7	5460	-57.92	2	0.24	39.55	Average	54	Pass

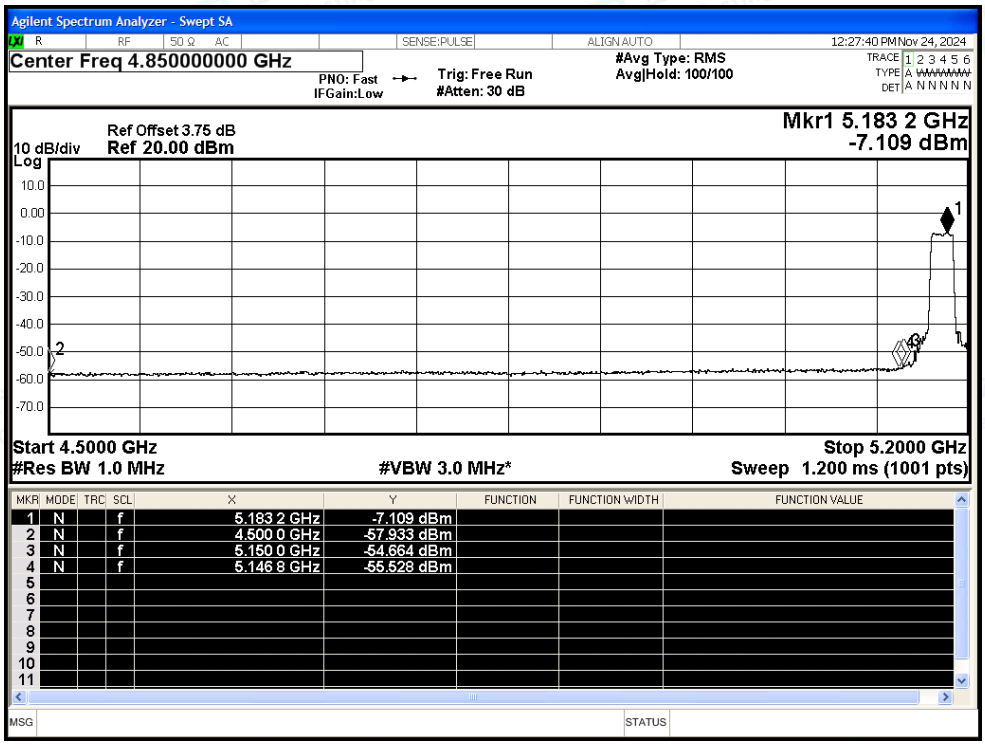
NVNT	ac20	5180	Ant7	4500	-50.84	2	-	46.39	Peak	68.2	Pass
NVNT	ac20	5180	Ant7	4500	-58.34	2	0.12	39.01	Average	54	Pass
NVNT	ac20	5180	Ant7	5148.9	-45.11	2	-	52.12	Peak	68.2	Pass
NVNT	ac20	5180	Ant7	5148.9	-54.36	2	0.12	42.99	Average	54	Pass
NVNT	ac20	5180	Ant7	5150	-43.83	2	-	53.4	Peak	68.2	Pass
NVNT	ac20	5180	Ant7	5150	-55.04	2	0.12	42.31	Average	54	Pass
NVNT	ac20	5240	Ant7	5350	-49.17	2	-	48.06	Peak	68.2	Pass
NVNT	ac20	5240	Ant7	5350	-57.46	2	0.12	39.89	Average	54	Pass
NVNT	ac20	5240	Ant7	5392.08	-47.32	2	-	49.91	Peak	68.2	Pass
NVNT	ac20	5240	Ant7	5352	-56.85	2	0.12	40.5	Average	54	Pass
NVNT	ac20	5240	Ant7	5460	-50.86	2	-	46.37	Peak	68.2	Pass
NVNT	ac20	5240	Ant7	5460	-58.39	2	0.12	38.96	Average	54	Pass
NVNT	ac40	5190	Ant7	4500	-50.67	2	-	46.56	Peak	68.2	Pass
NVNT	ac40	5190	Ant7	4500	-57.96	2	0.24	39.51	Average	54	Pass
NVNT	ac40	5190	Ant7	5148.24	-43.58	2	-	53.65	Peak	68.2	Pass
NVNT	ac40	5190	Ant7	5148.97	-54.36	2	0.24	43.11	Average	54	Pass
NVNT	ac40	5190	Ant7	5150	-43.65	2	-	53.58	Peak	68.2	Pass
NVNT	ac40	5190	Ant7	5150	-54.47	2	0.24	43	Average	54	Pass
NVNT	ac40	5230	Ant7	5350	-48.95	2	-	48.28	Peak	68.2	Pass
NVNT	ac40	5230	Ant7	5350	-57.7	2	0.24	39.77	Average	54	Pass
NVNT	ac40	5230	Ant7	5435.97	-46.79	2	-	50.44	Peak	68.2	Pass
NVNT	ac40	5230	Ant7	5374.68	-56.85	2	0.24	40.62	Average	54	Pass
NVNT	ac40	5230	Ant7	5460	-48.98	2	-	48.25	Peak	68.2	Pass
NVNT	ac40	5230	Ant7	5460	-58.16	2	0.24	39.31	Average	54	Pass
NVNT	ac80	5210	Ant7	5350	-47.25	2	-	49.98	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	5350	-56.5	2	0.25	40.98	Average	54	Pass
NVNT	ac80	5210	Ant7	5397.96	-46.94	2	-	50.29	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	5350.44	-56.31	2	0.25	41.17	Average	54	Pass
NVNT	ac80	5210	Ant7	5460	-50.03	2	-	47.2	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	5460	-58	2	0.25	39.48	Average	54	Pass
NVNT	ac80	5210	Ant7	4500	-49.87	2	-	47.36	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	4500	-58.15	2	0.25	39.33	Average	54	Pass
NVNT	ac80	5210	Ant7	5146.22	-41.94	2	-	55.29	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	5149.38	-54.48	2	0.25	43	Average	54	Pass
NVNT	ac80	5210	Ant7	5150	-44.3	2	-	52.93	Peak	68.2	Pass
NVNT	ac80	5210	Ant7	5150	-53.68	2	0.25	43.8	Average	54	Pass

Test Graphs

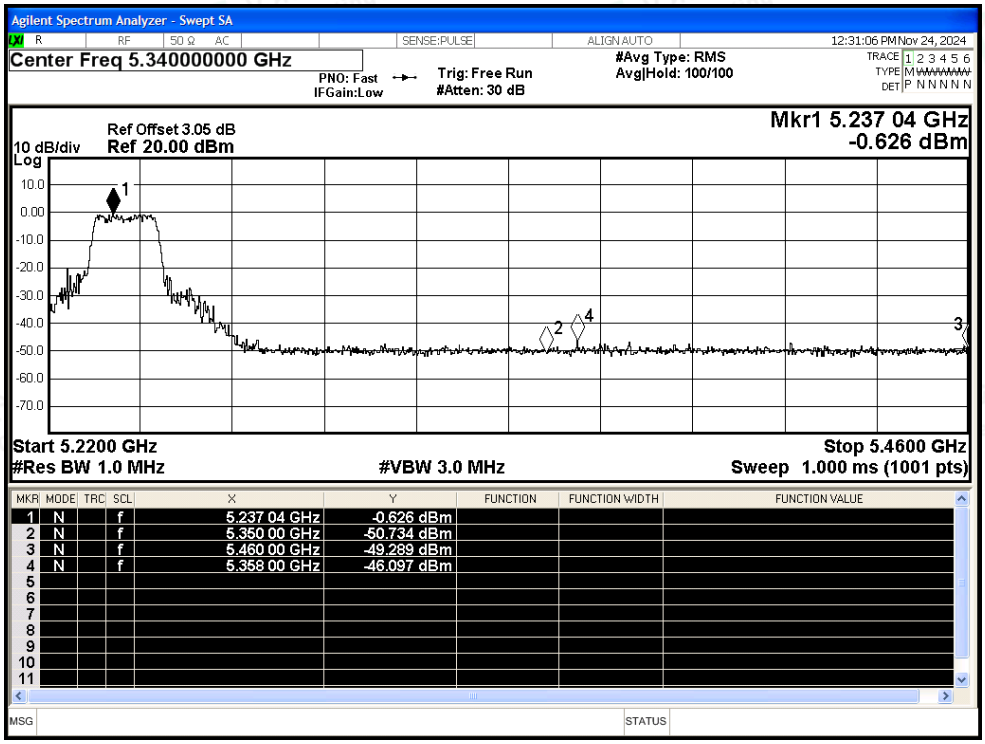
Restrict Band NVNT a 5180MHz Ant7 Peak



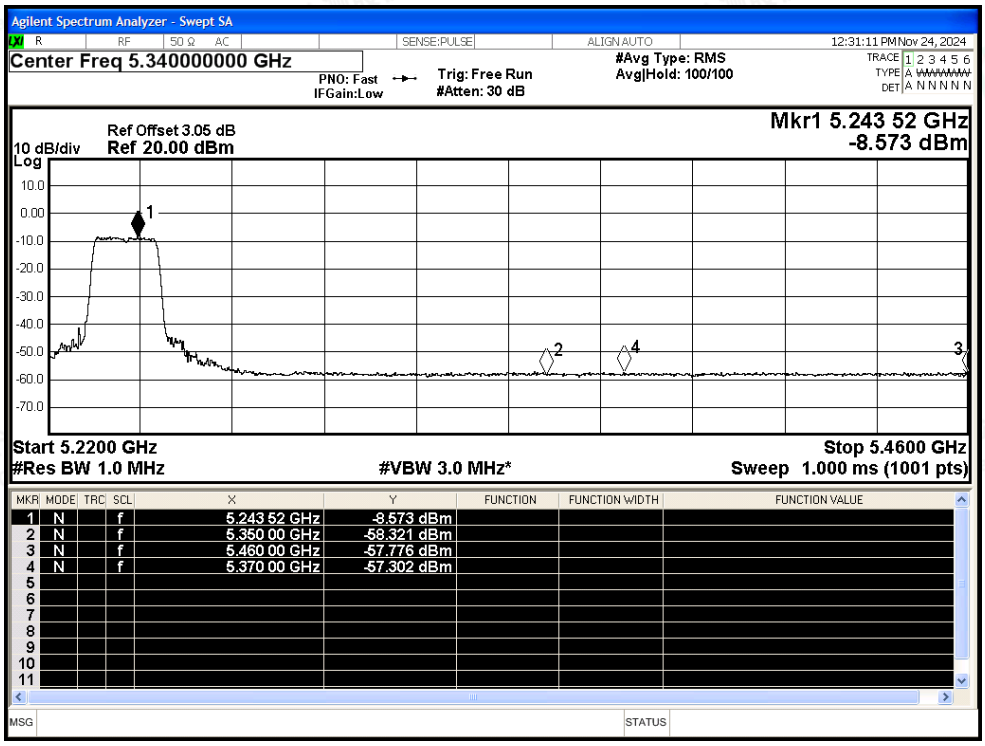
Restrict Band NVNT a 5180MHz Ant7 Average



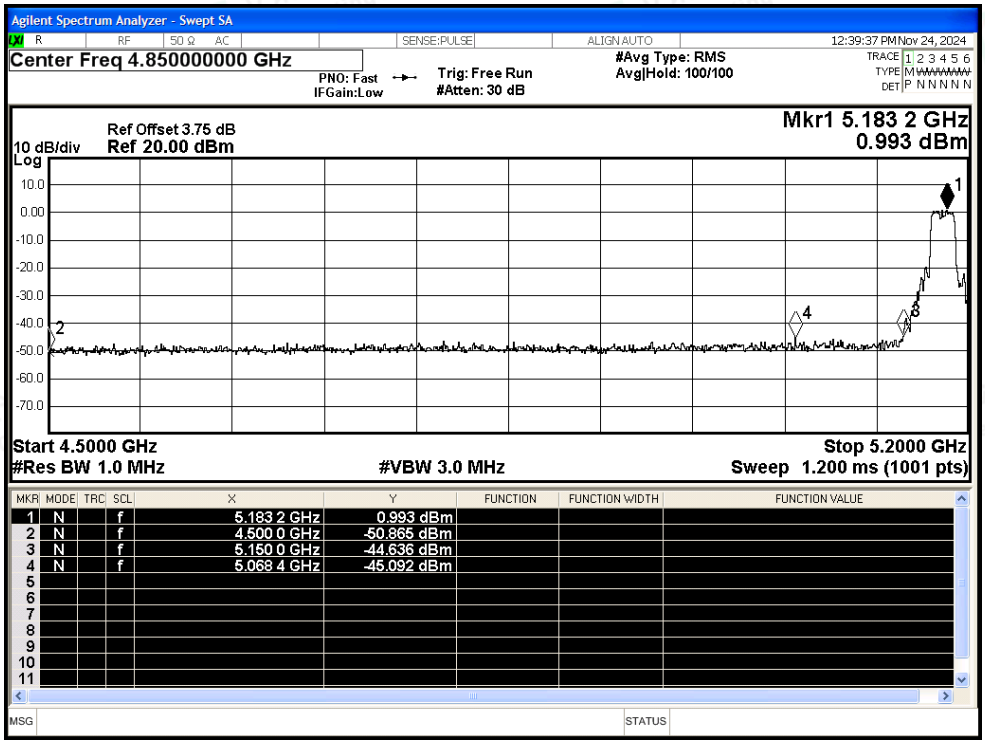
Restrict Band NVNT a 5240MHz Ant7 Peak



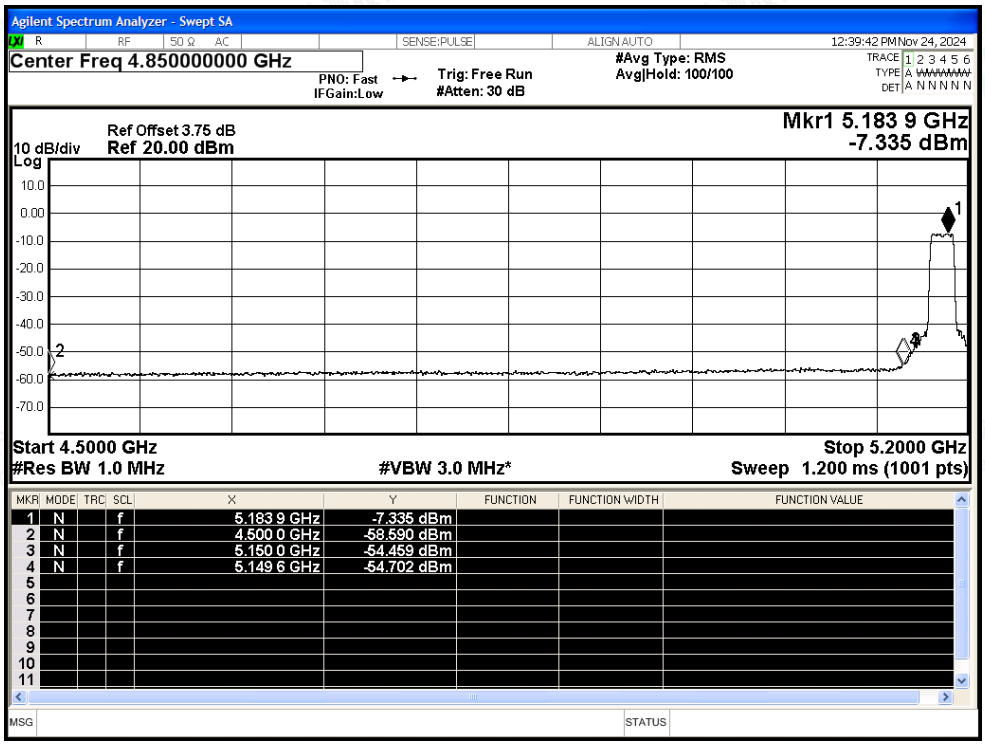
Restrict Band NVNT a 5240MHz Ant7 Average



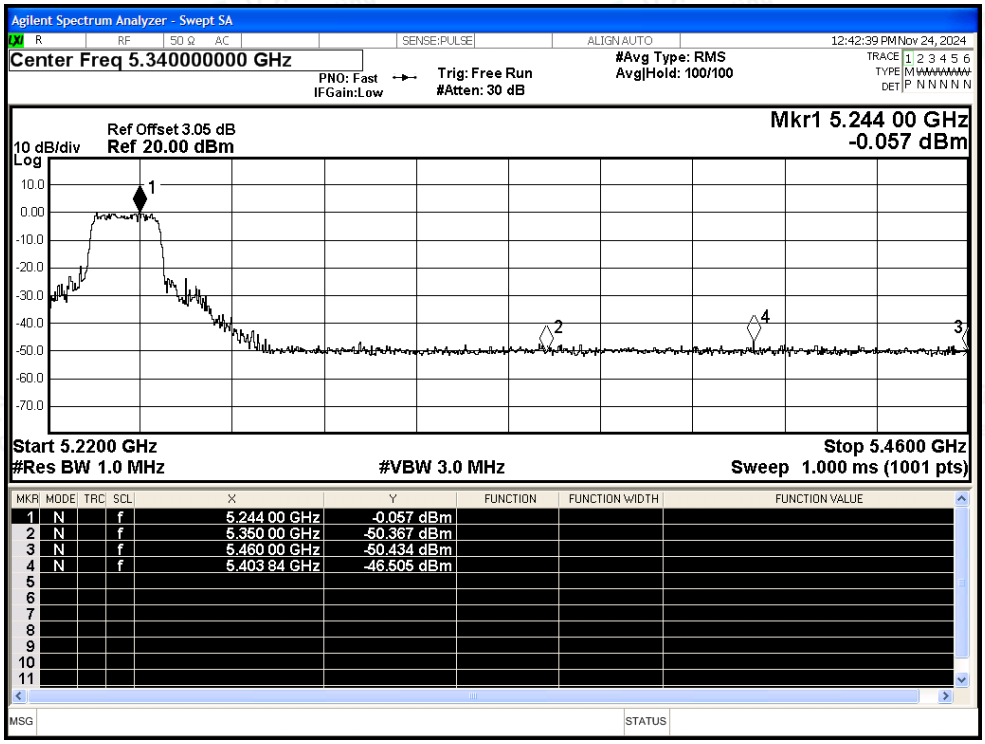
Restrict Band NVNT n20 5180MHz Ant7 Peak



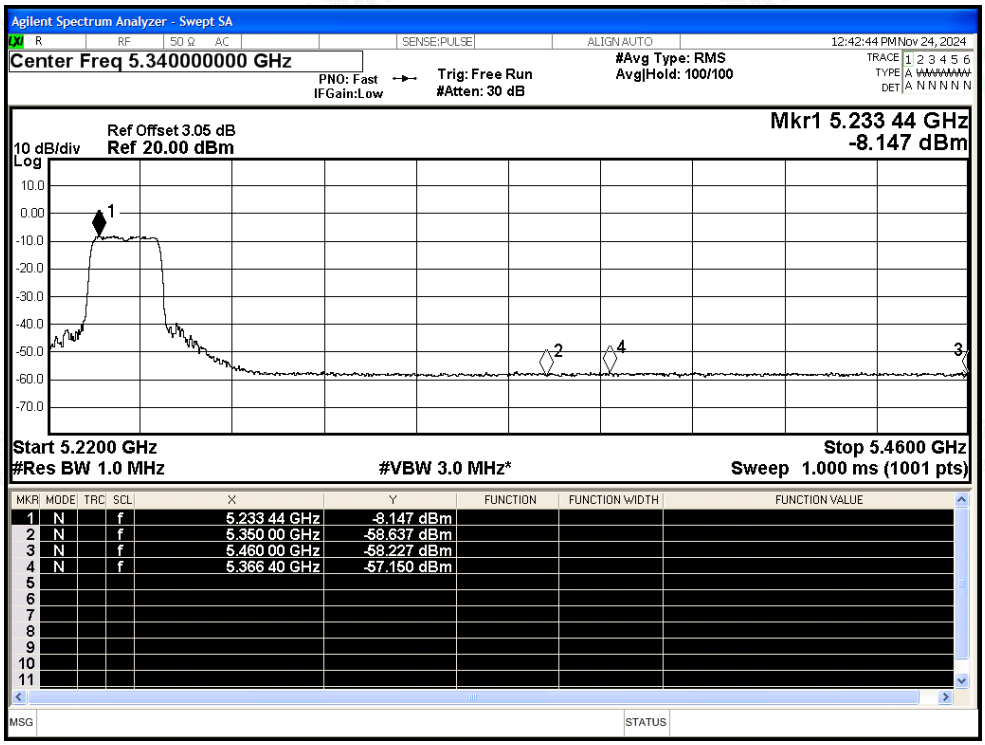
Restrict Band NVNT n20 5180MHz Ant7 Average



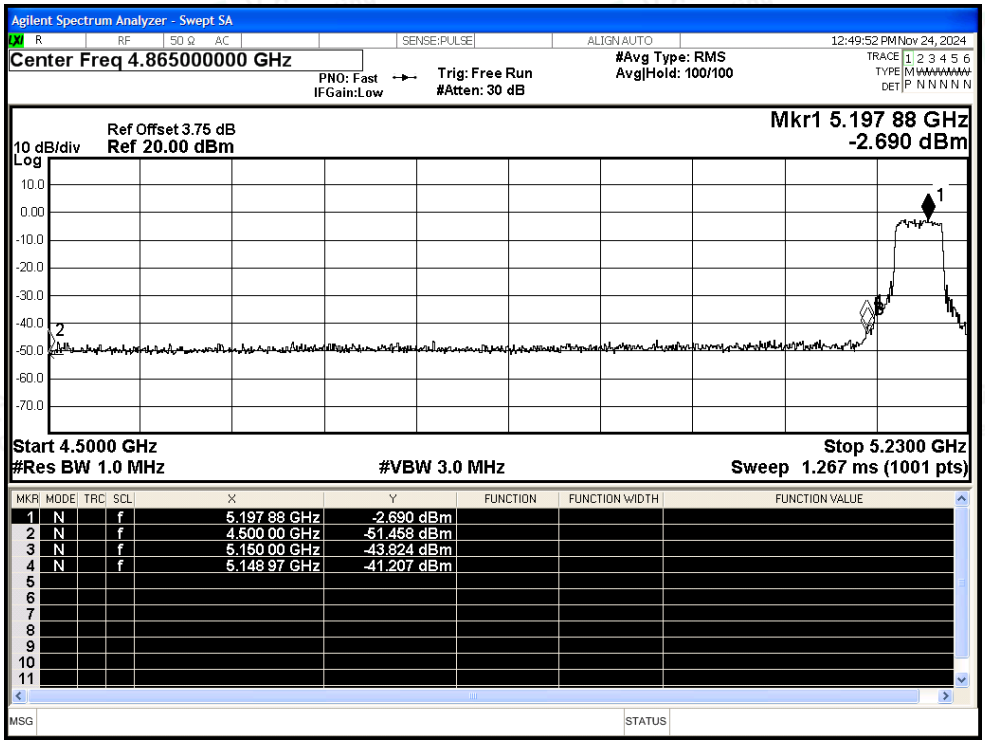
Restrict Band NVNT n20 5240MHz Ant7 Peak



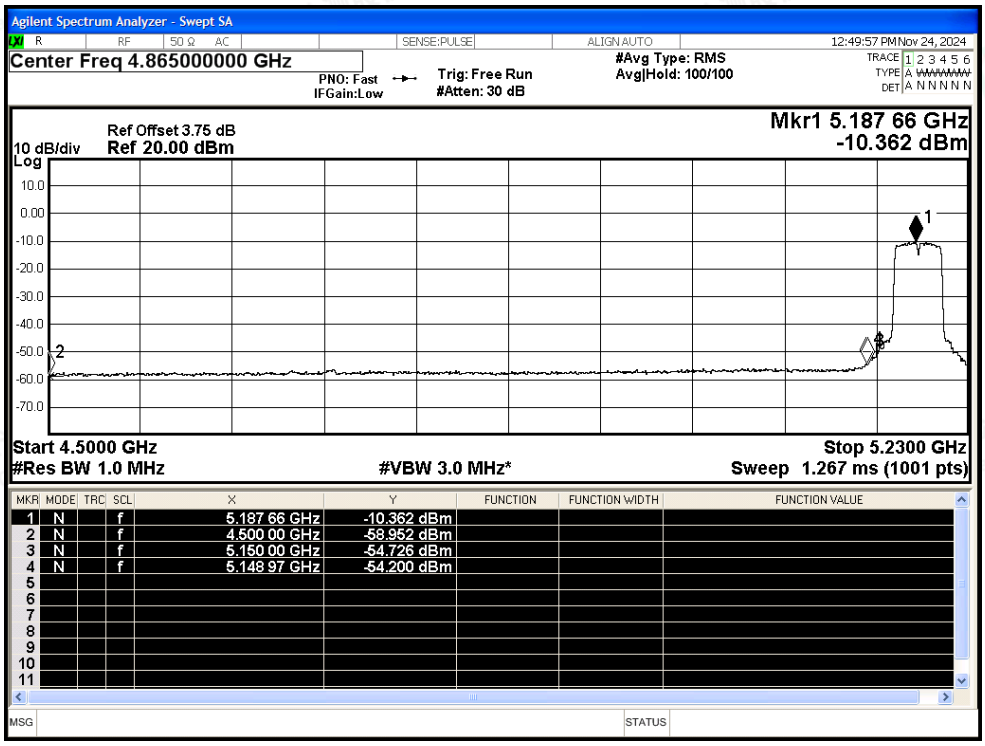
Restrict Band NVNT n20 5240MHz Ant7 Average



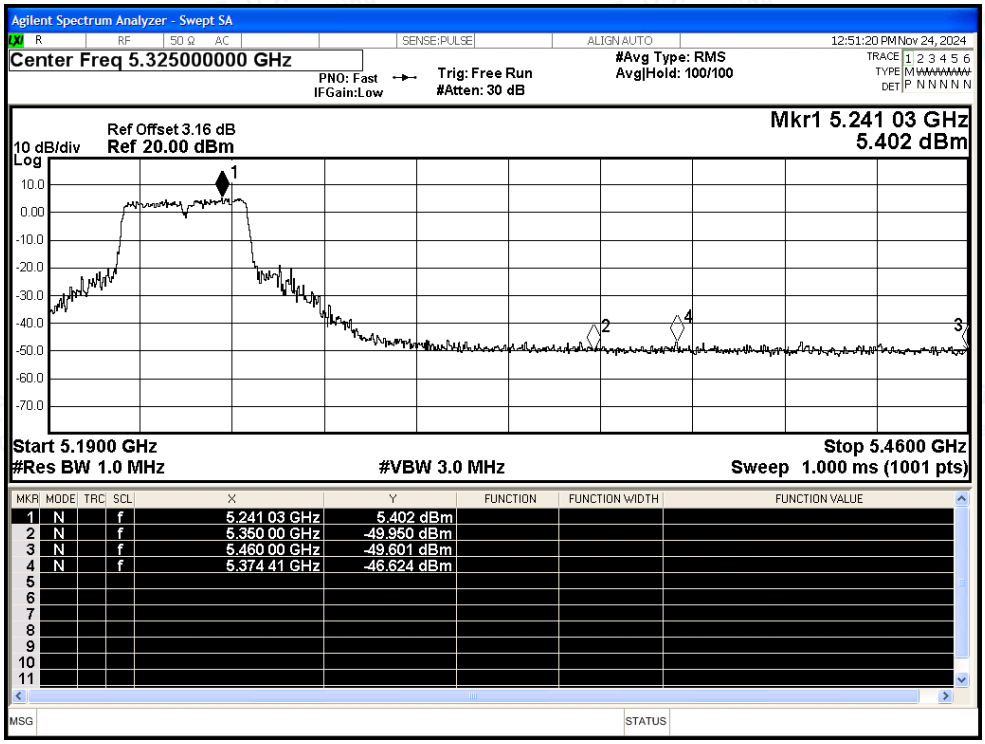
Restrict Band NVNT n40 5190MHz Ant7 Peak



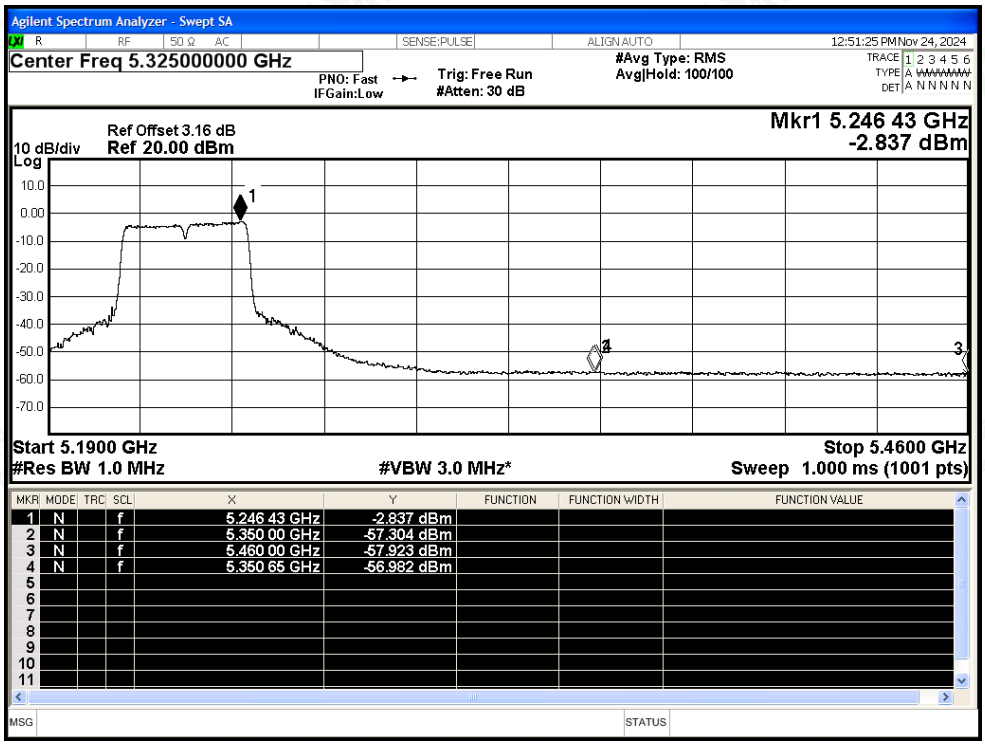
Restrict Band NVNT n40 5190MHz Ant7 Average



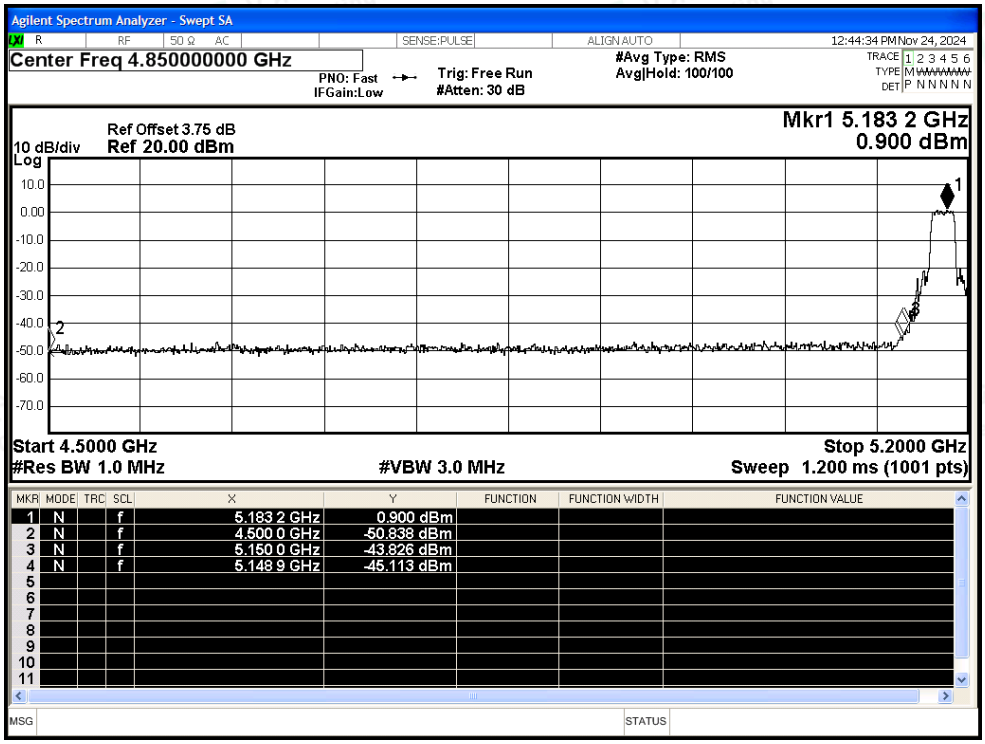
Restrict Band NVNT n40 5230MHz Ant7 Peak



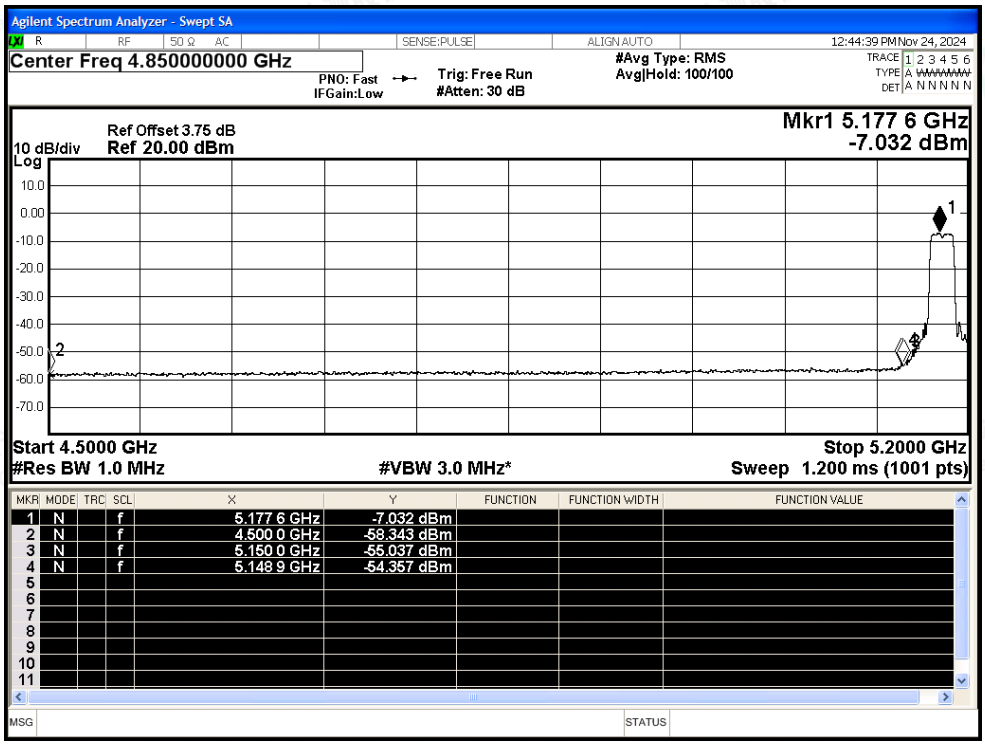
Restrict Band NVNT n40 5230MHz Ant7 Average



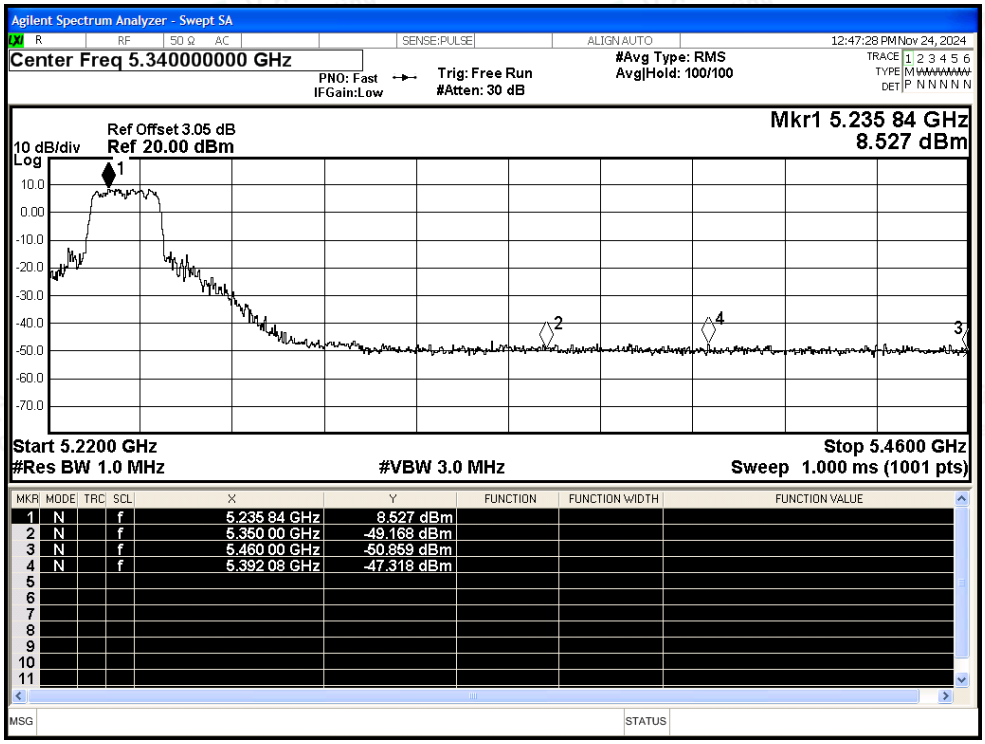
Restrict Band NVNT ac20 5180MHz Ant7 Peak



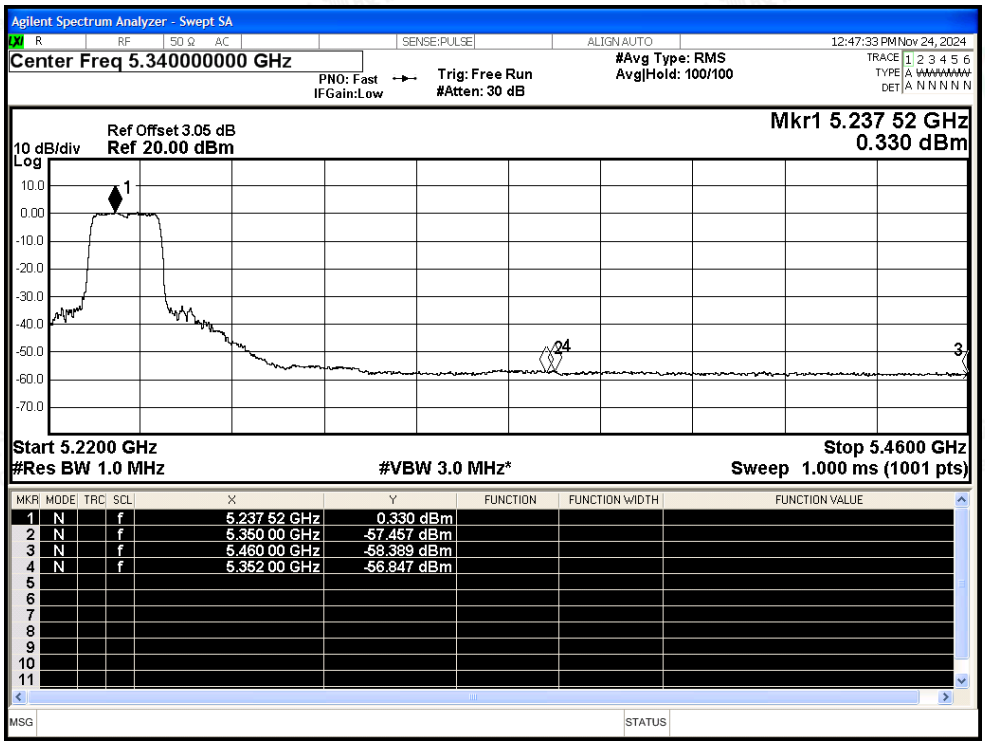
Restrict Band NVNT ac20 5180MHz Ant7 Average



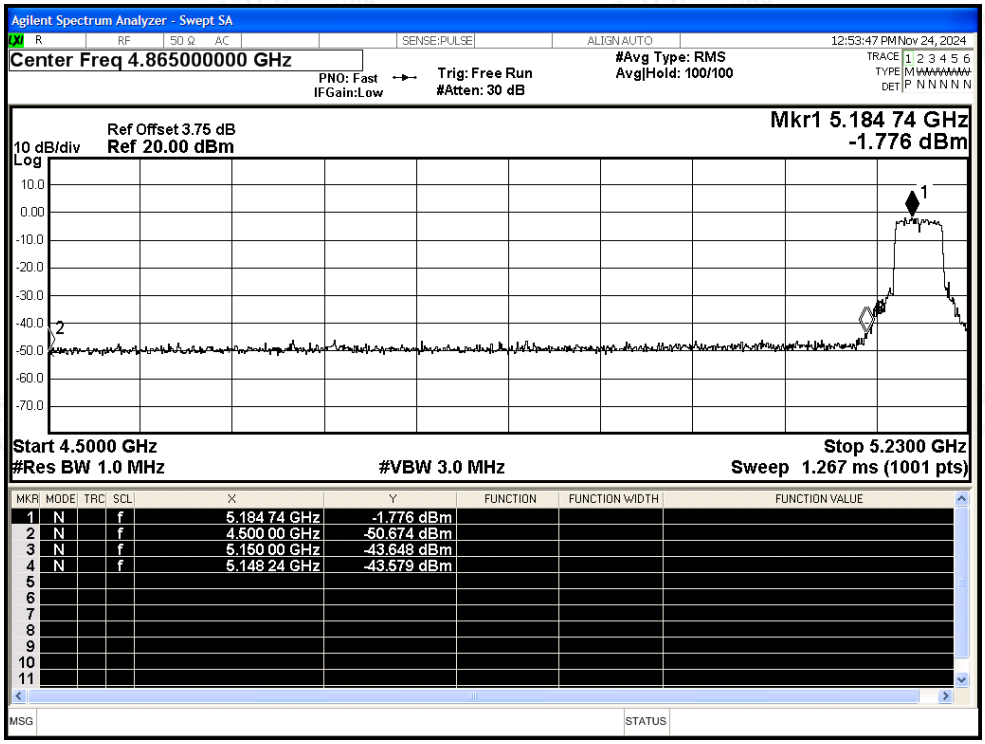
Restrict Band NVNT ac20 5240MHz Ant7 Peak



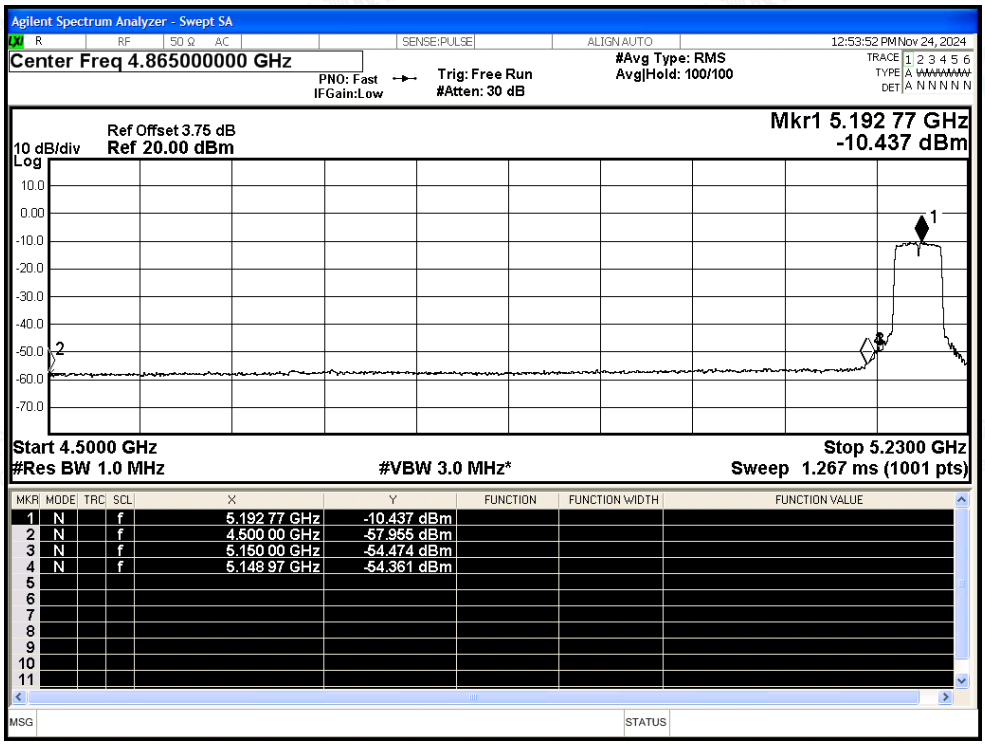
Restrict Band NVNT ac20 5240MHz Ant7 Average



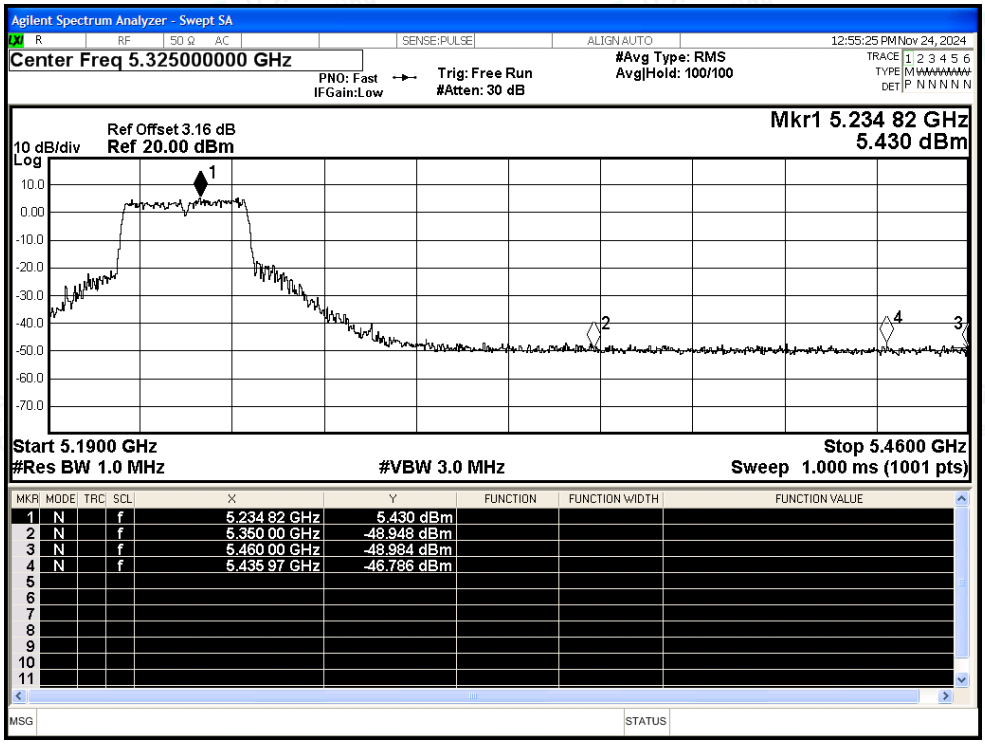
Restrict Band NVNT ac40 5190MHz Ant7 Peak



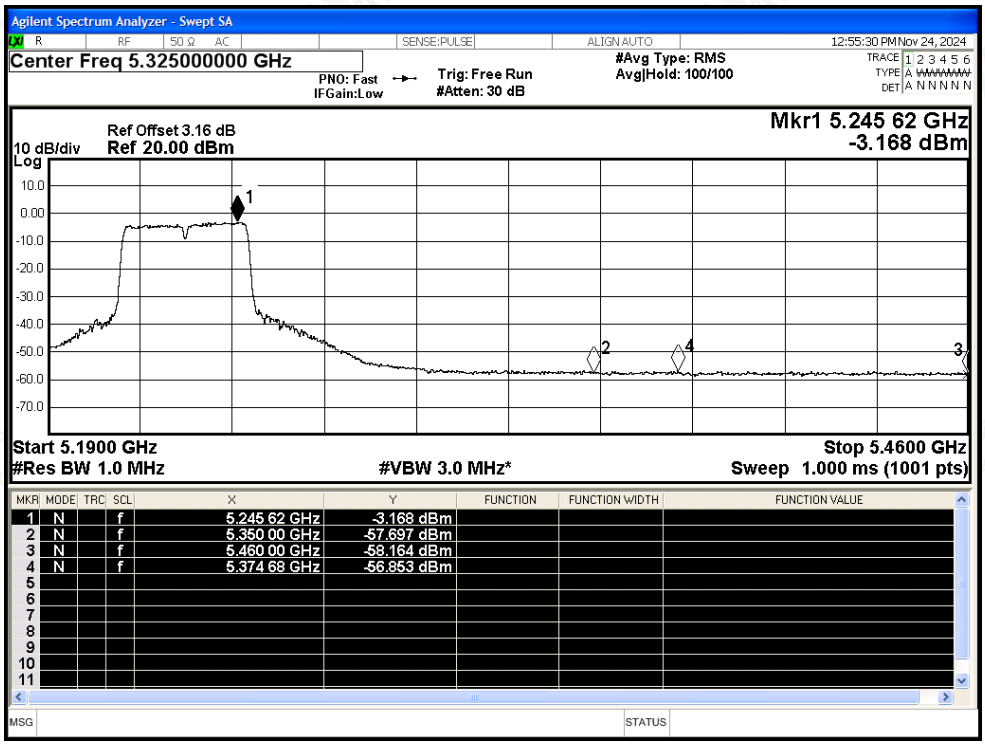
Restrict Band NVNT ac40 5190MHz Ant7 Average



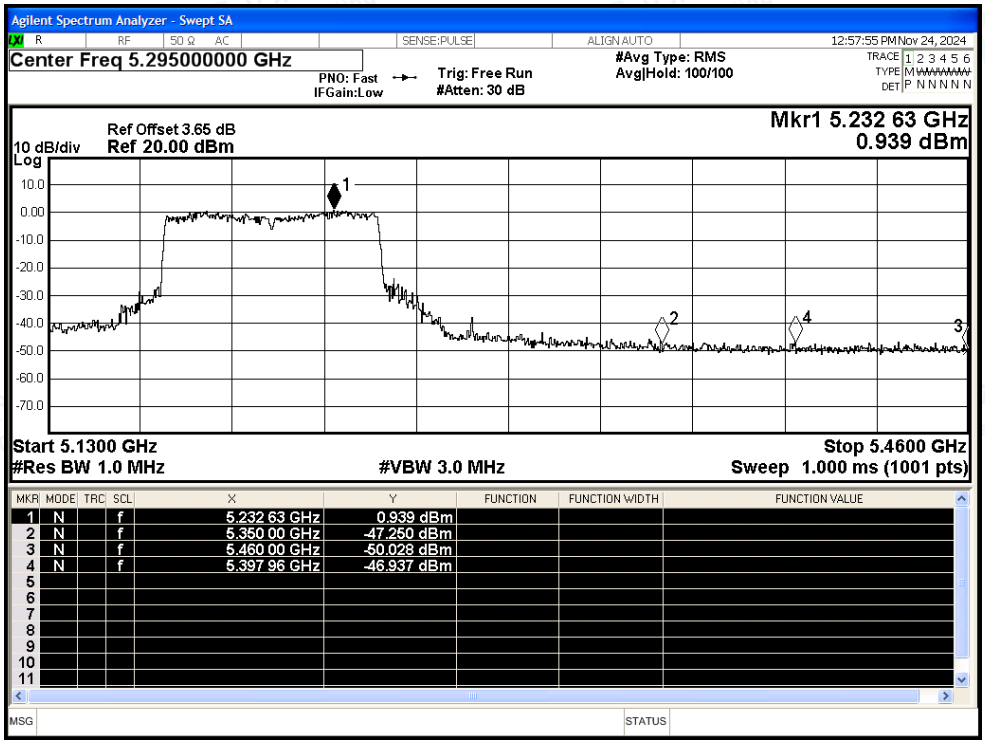
Restrict Band NVNT ac40 5230MHz Ant7 Peak



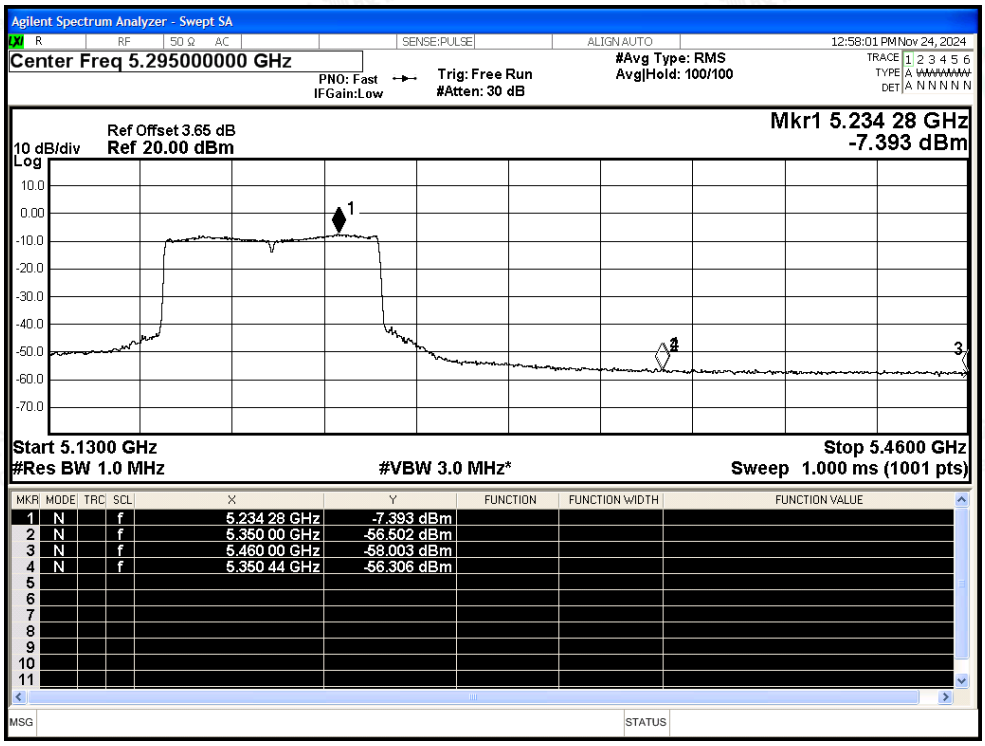
Restrict Band NVNT ac40 5230MHz Ant7 Average



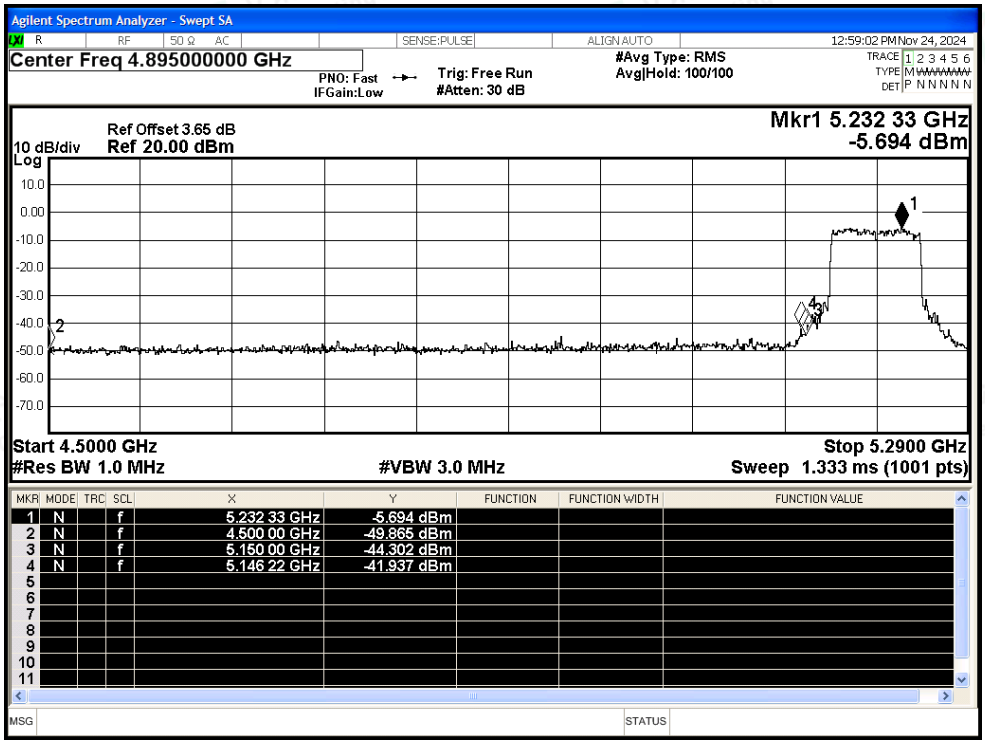
Restrict Band NVNT ac80 5210MHz Ant7 Peak



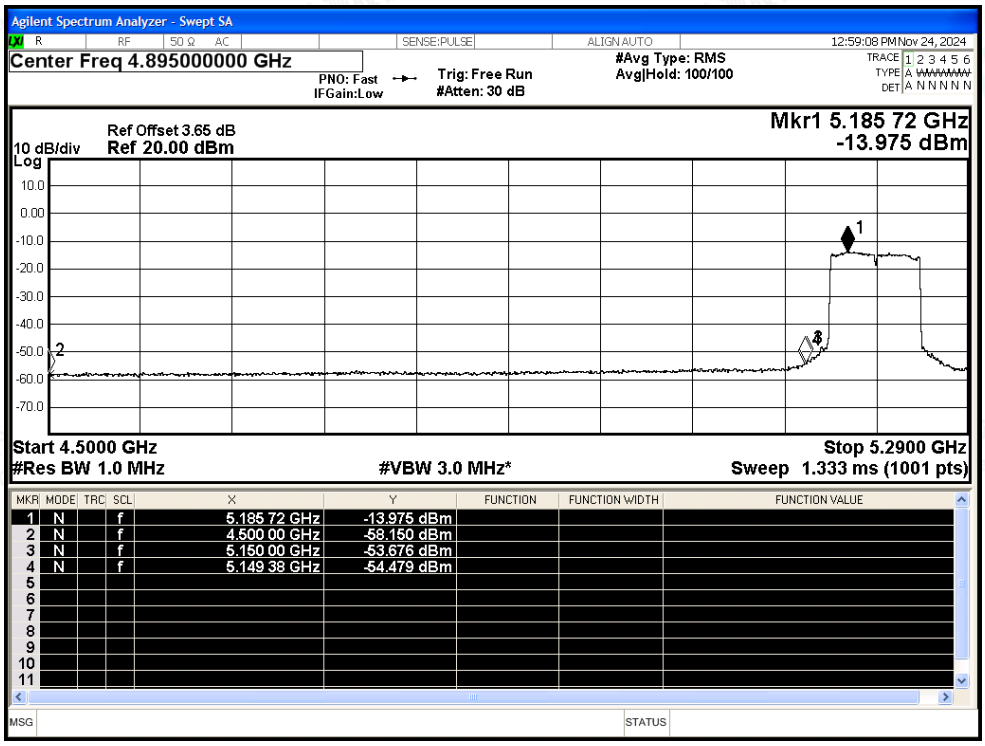
Restrict Band NVNT ac80 5210MHz Ant7 Average



Restrict Band NVNT ac80 5210MHz Ant7 Peak



Restrict Band NVNT ac80 5210MHz Ant7 Average

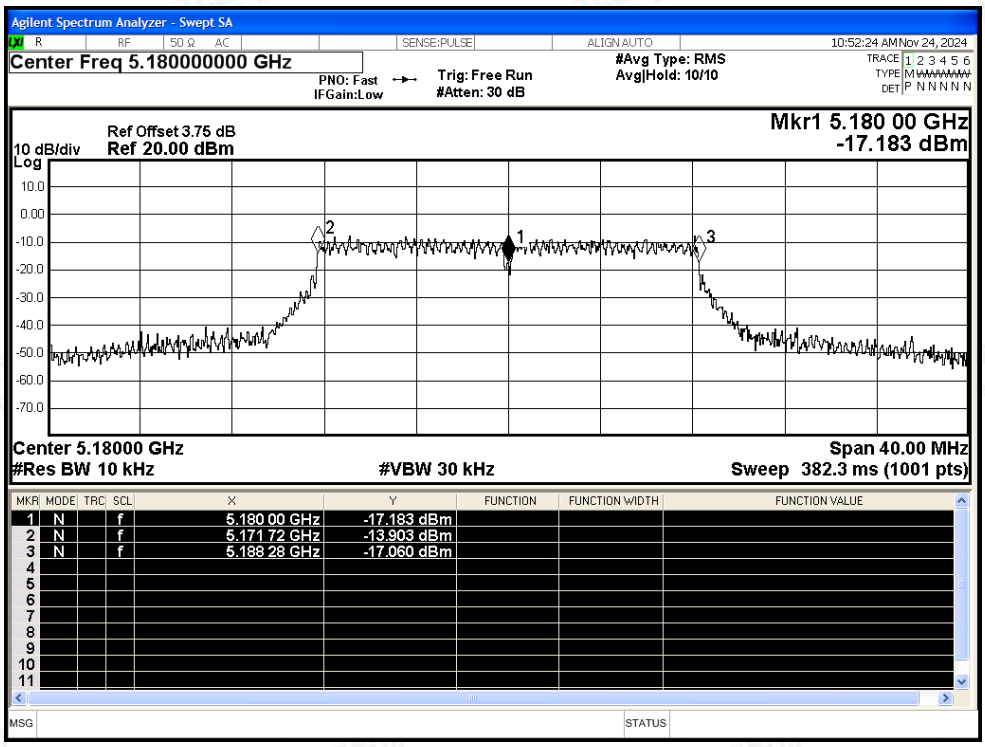


D.5 Frequency Stability

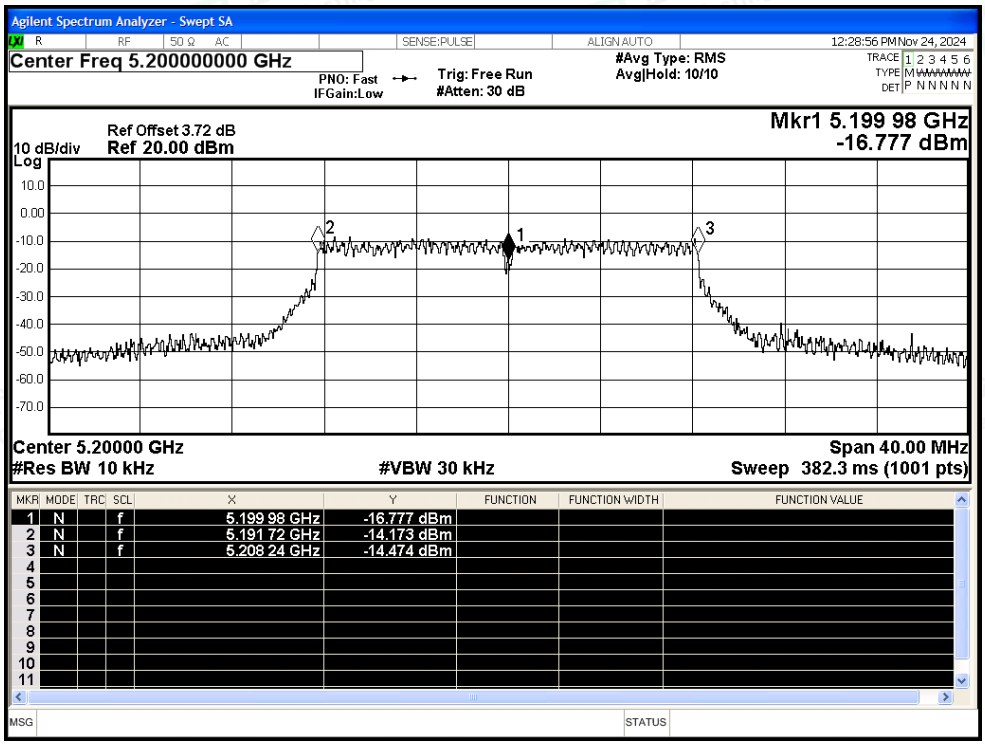
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant7	5180	0	0	25	Pass
NVNT	a	5200	Ant7	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant7	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant7	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant7	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant7	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant7	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant7	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant7	5180	0	0	25	Pass
NVNT	ac20	5200	Ant7	5199.96	-40000	-7.69	25	Pass
NVNT	ac20	5240	Ant7	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant7	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant7	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant7	5210	0	0	25	Pass

Test Graphs

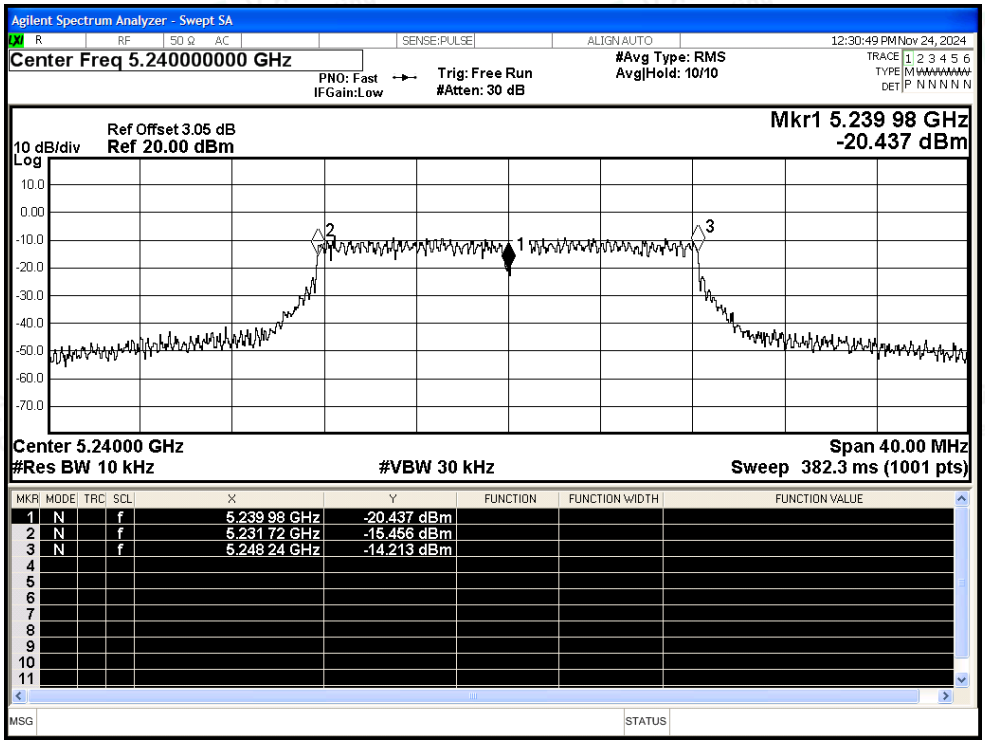
Freq. Stability NVNT a 5180MHz Ant7



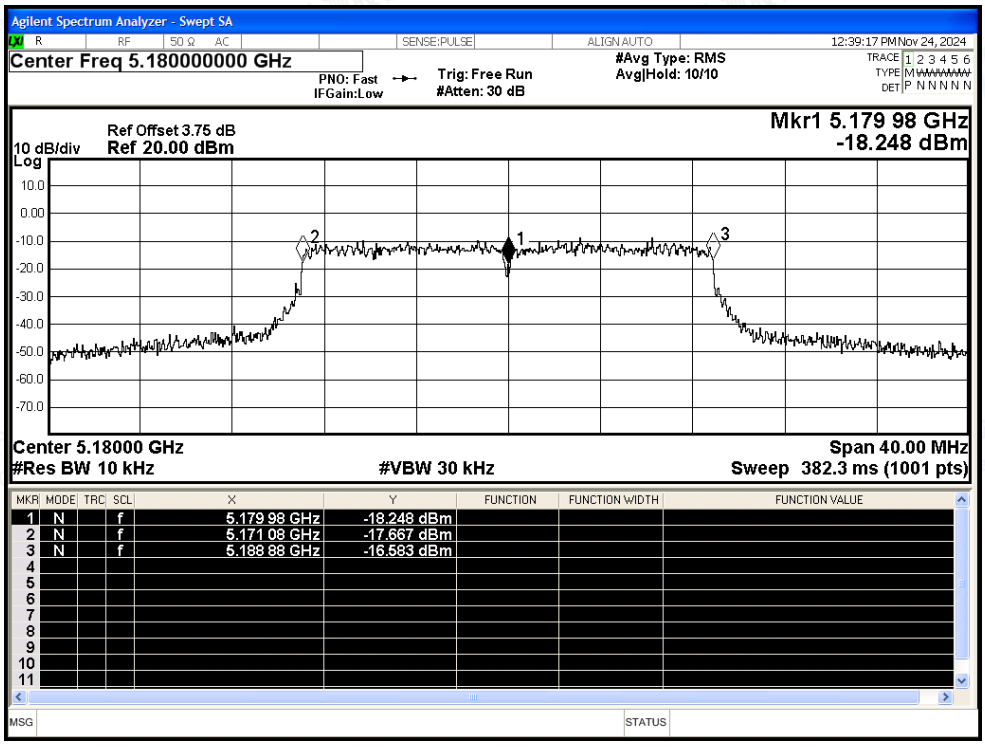
Freq. Stability NVNT a 5200MHz Ant7



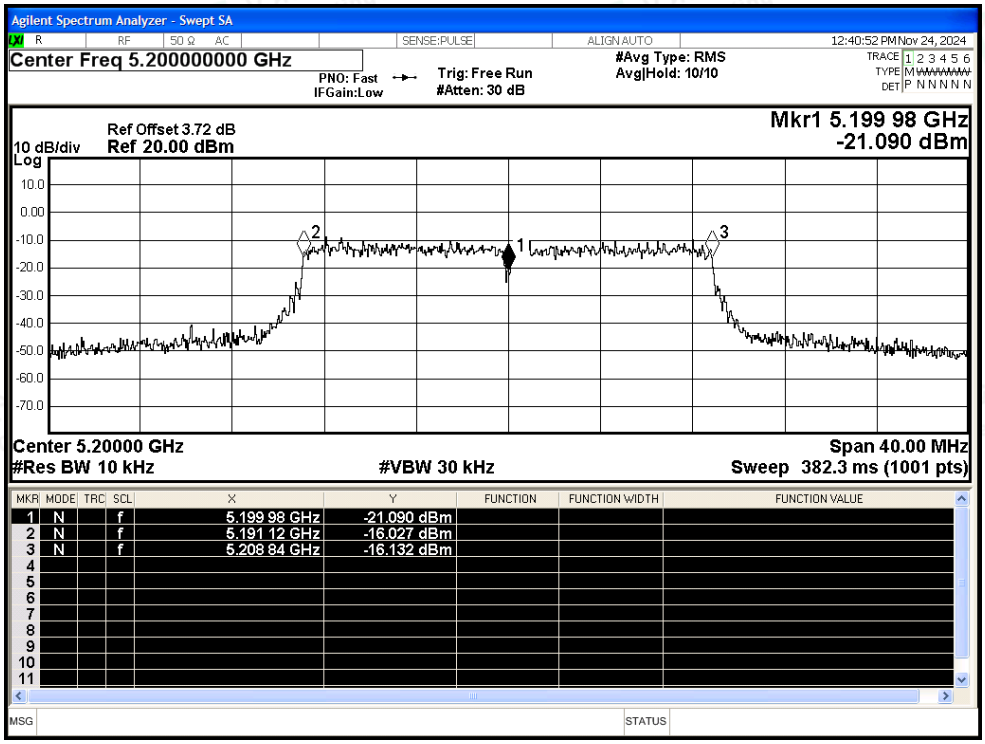
Freq. Stability NVNT a 5240MHz Ant7



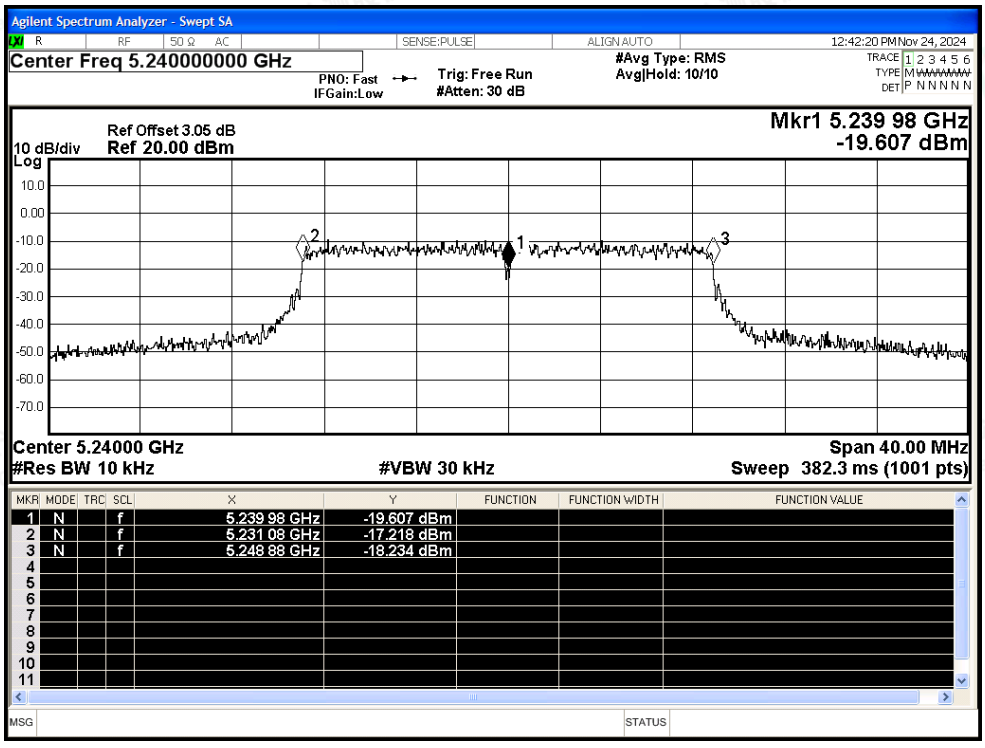
Freq. Stability NVNT n20 5180MHz Ant7



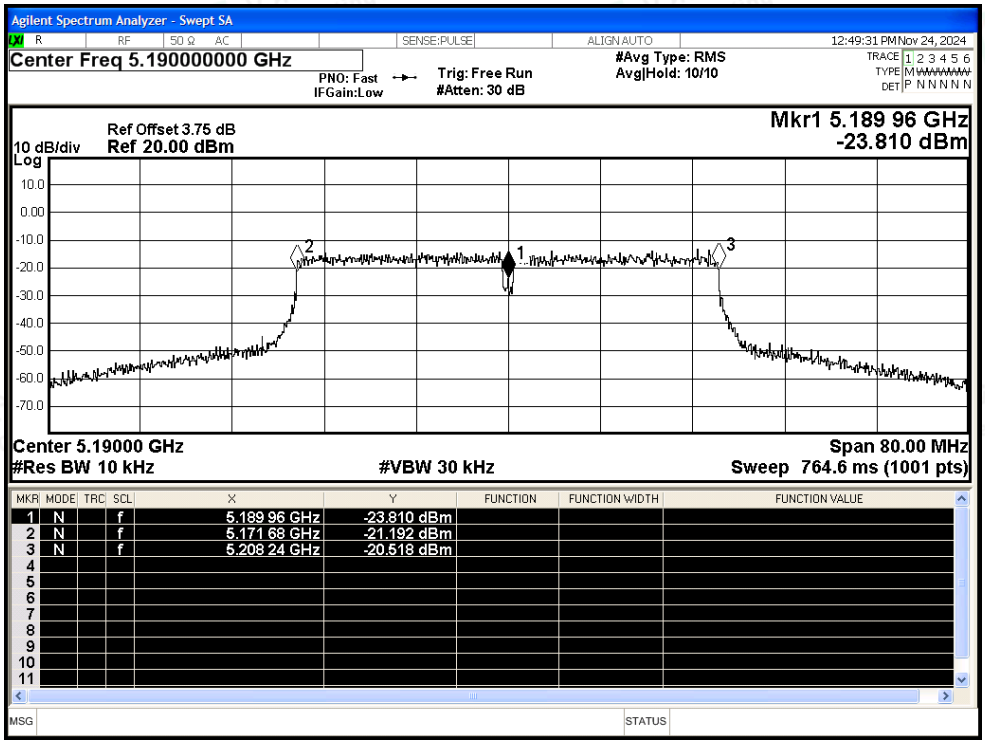
Freq. Stability NVNT n20 5200MHz Ant7



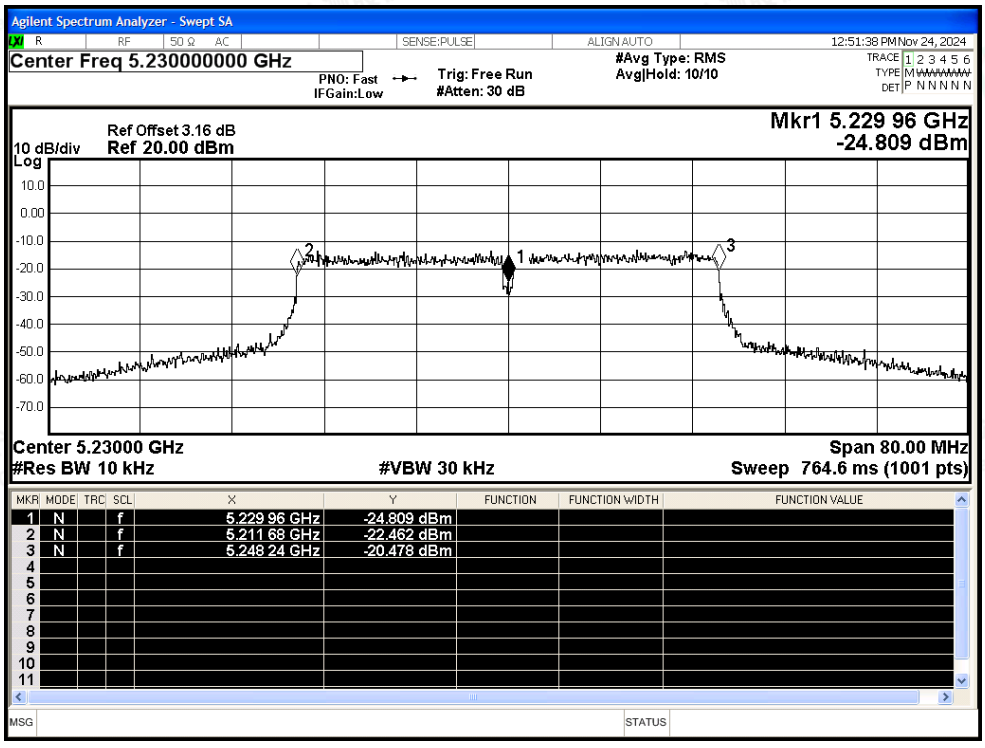
Freq. Stability NVNT n20 5240MHz Ant7



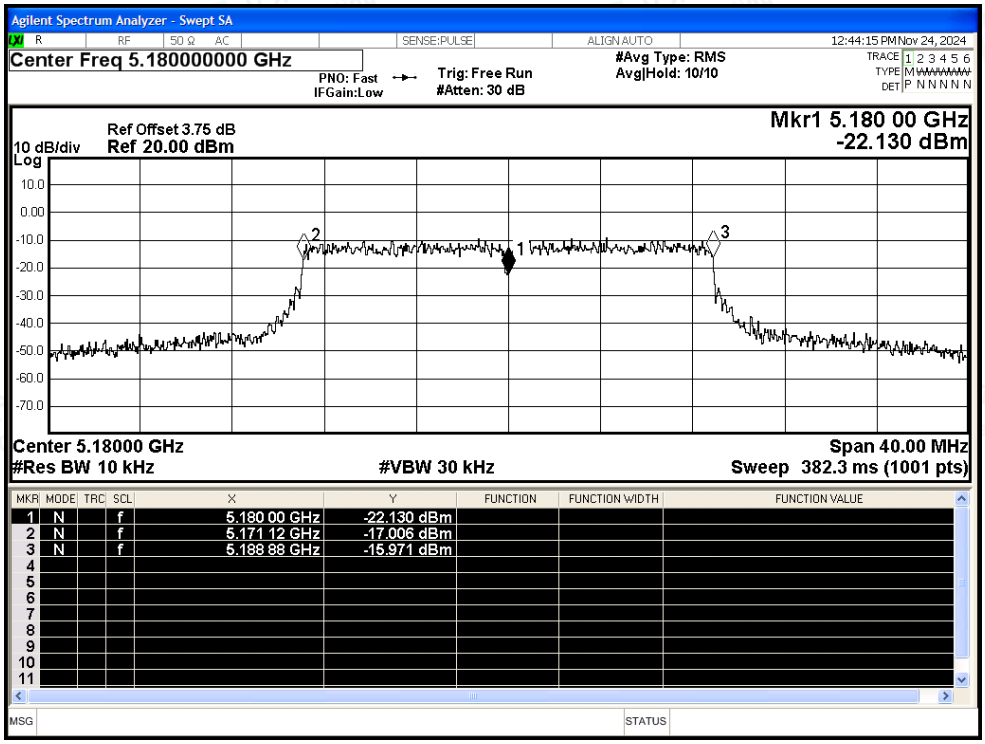
Freq. Stability NVNT n40 5190MHz Ant7



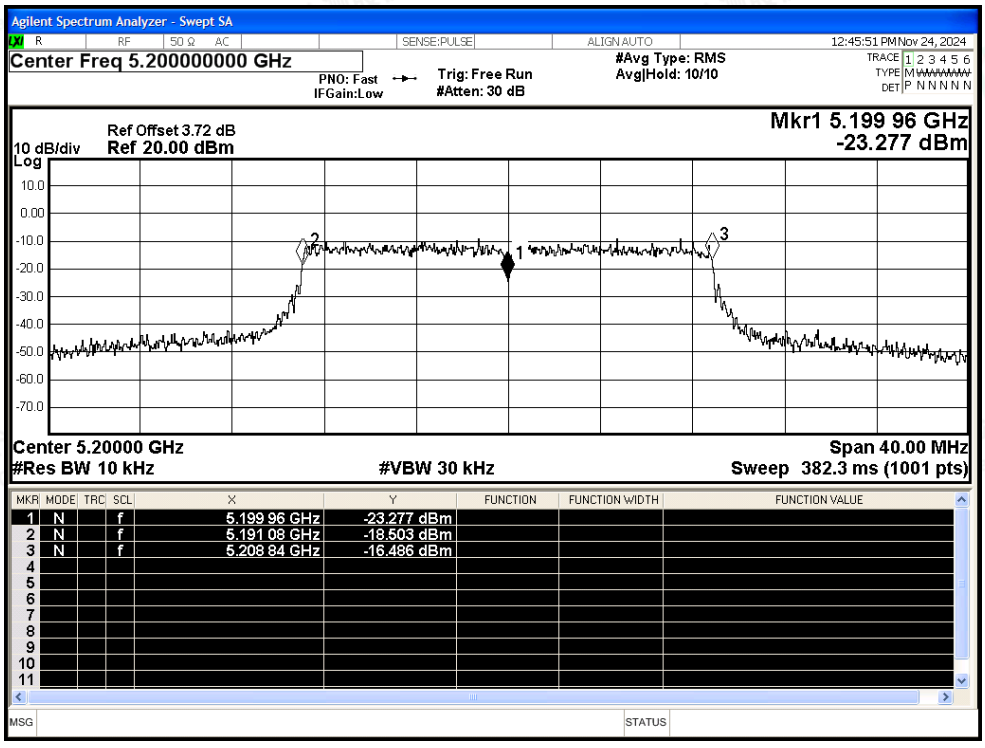
Freq. Stability NVNT n40 5230MHz Ant7



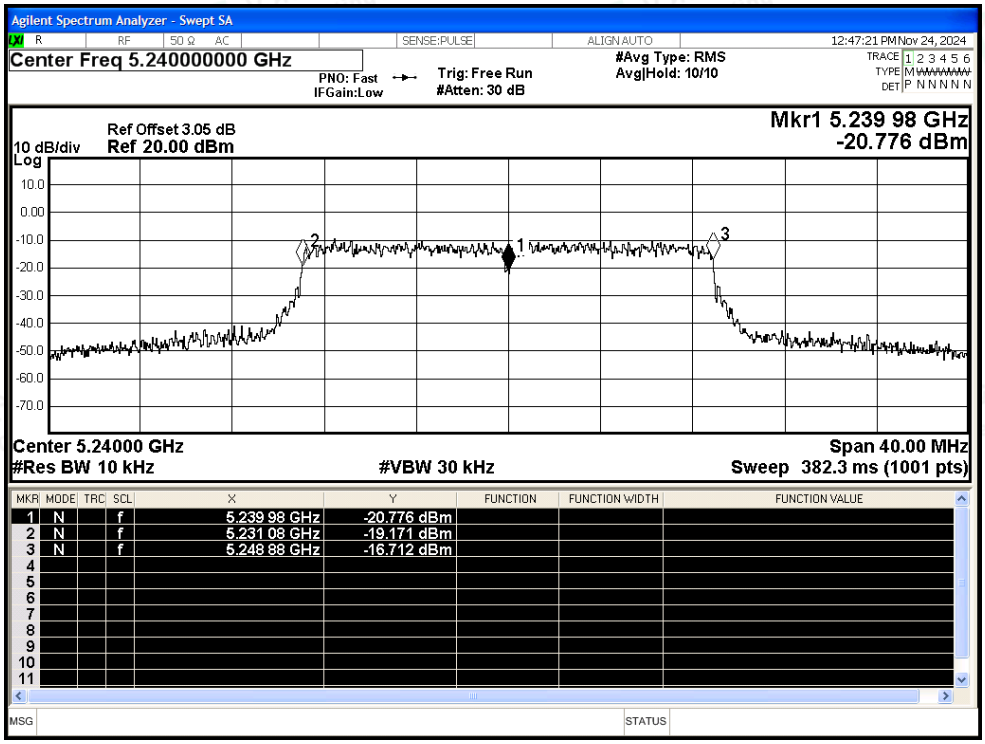
Freq. Stability NVNT ac20 5180MHz Ant7



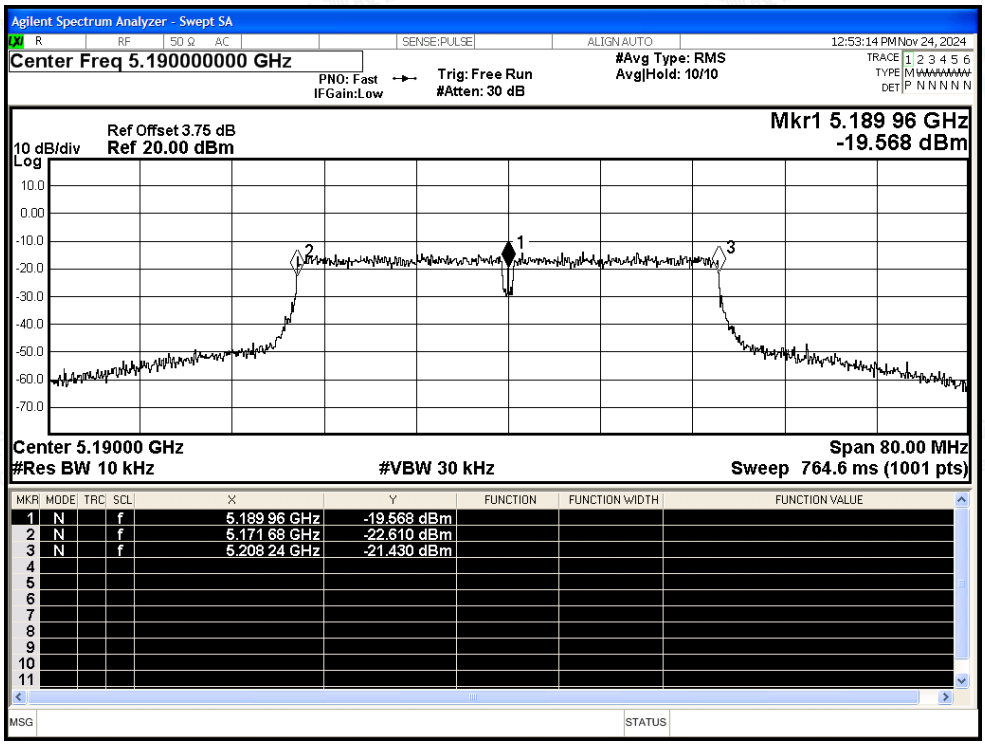
Freq. Stability NVNT ac20 5200MHz Ant7



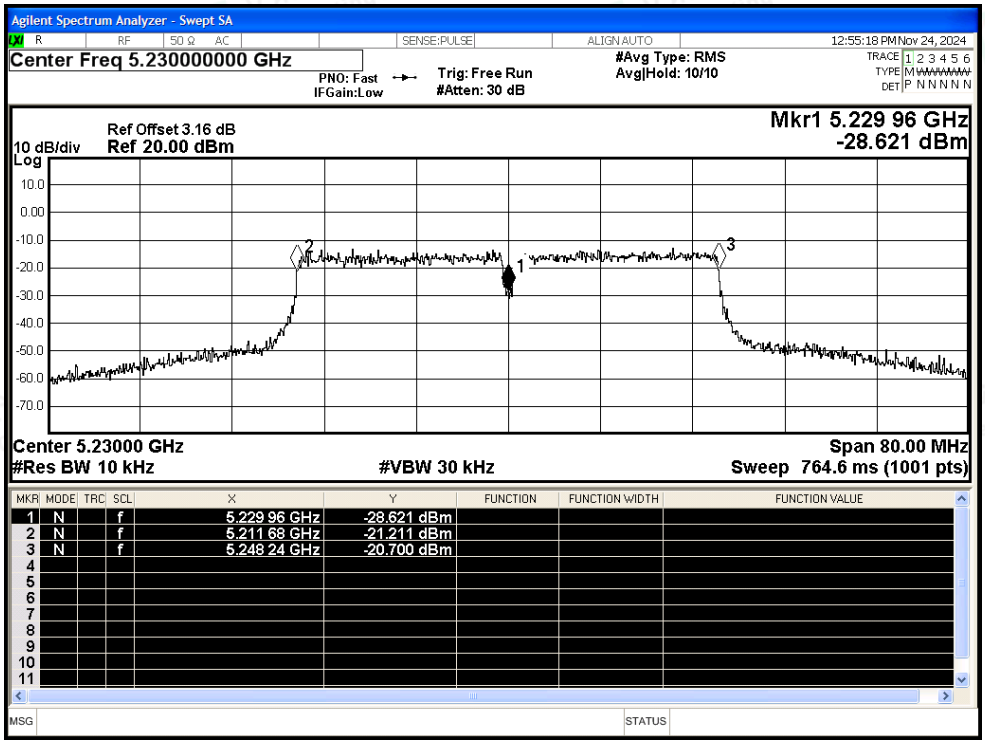
Freq. Stability NVNT ac20 5240MHz Ant7



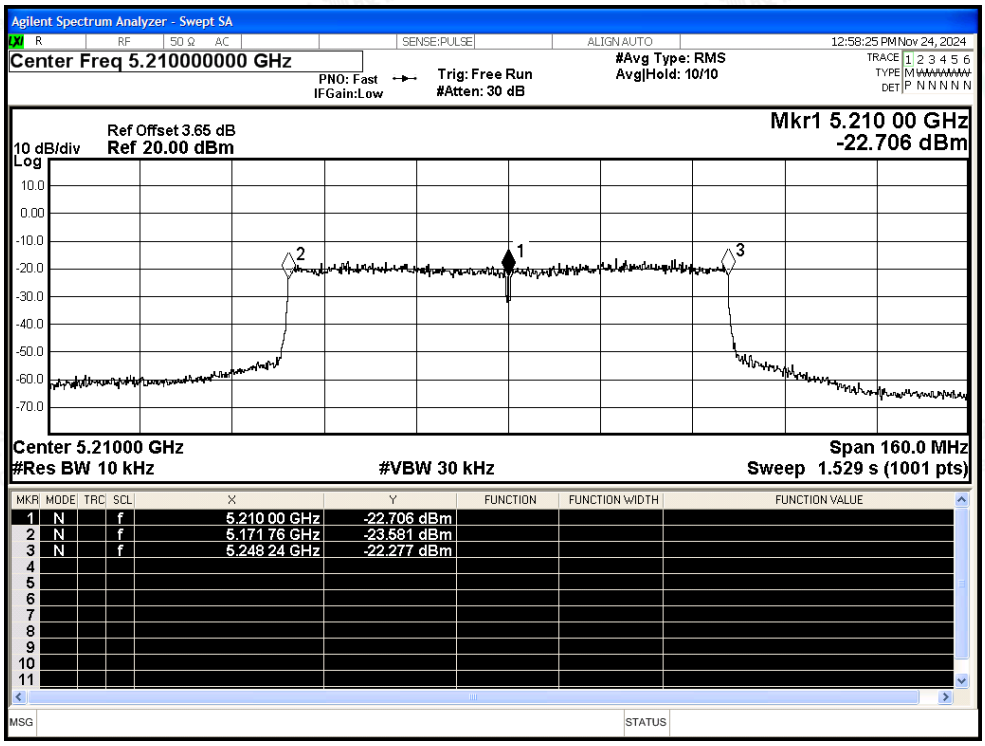
Freq. Stability NVNT ac40 5190MHz Ant7



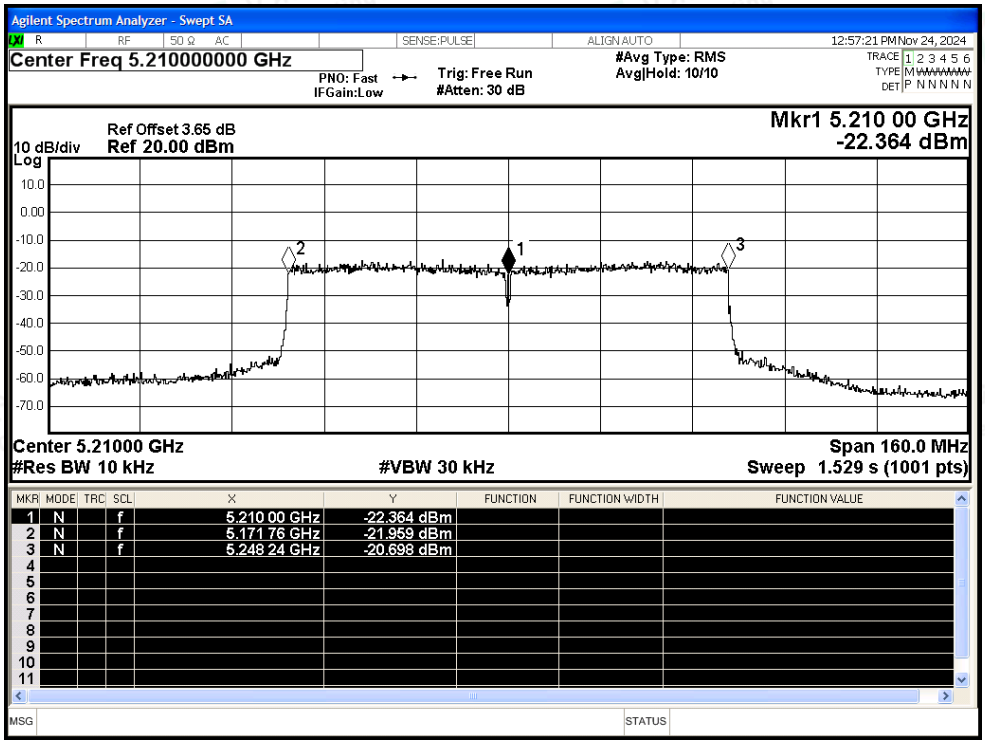
Freq. Stability NVNT ac40 5230MHz Ant7



Freq. Stability NVNT ac80 5210MHz Ant7



Freq. Stability NVNT ac80 5210MHz Ant7

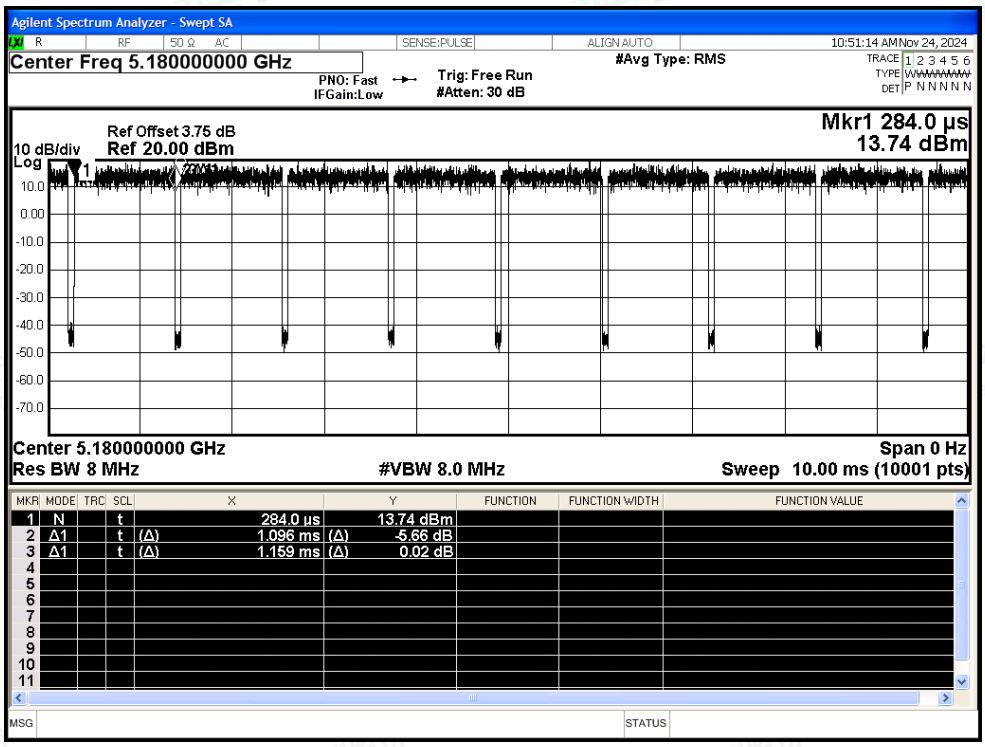


D.6 Duty Cycle

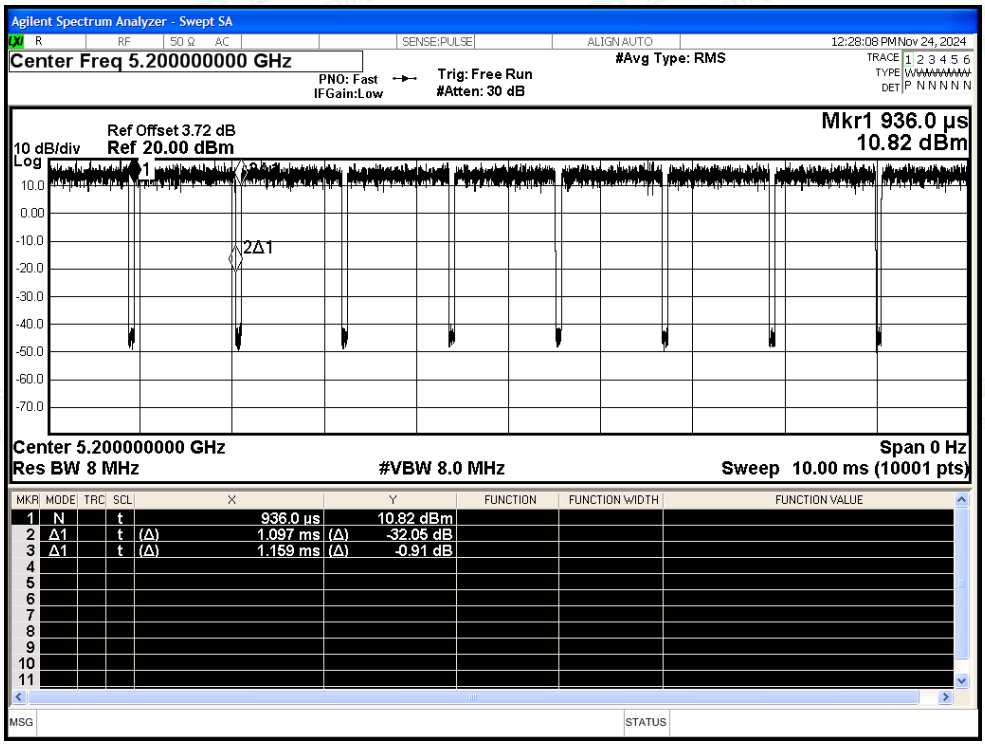
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant7	94.56	0.24	0.91
NVNT	a	5200	Ant7	94.65	0.24	0.91
NVNT	a	5240	Ant7	94.56	0.24	0.91
NVNT	n20	5180	Ant7	97.33	0.12	0.44
NVNT	n20	5200	Ant7	97.29	0.12	0.44
NVNT	n20	5240	Ant7	97.29	0.12	0.44
NVNT	n40	5190	Ant7	94.71	0.24	0.9
NVNT	n40	5230	Ant7	94.71	0.24	0.9
NVNT	ac20	5180	Ant7	97.3	0.12	0.44
NVNT	ac20	5200	Ant7	97.34	0.12	0.44
NVNT	ac20	5240	Ant7	97.3	0.12	0.44
NVNT	ac40	5190	Ant7	94.72	0.24	0.9
NVNT	ac40	5230	Ant7	94.72	0.24	0.9
NVNT	ac80	5210	Ant7	94.41	0.25	0.97

Test Graphs

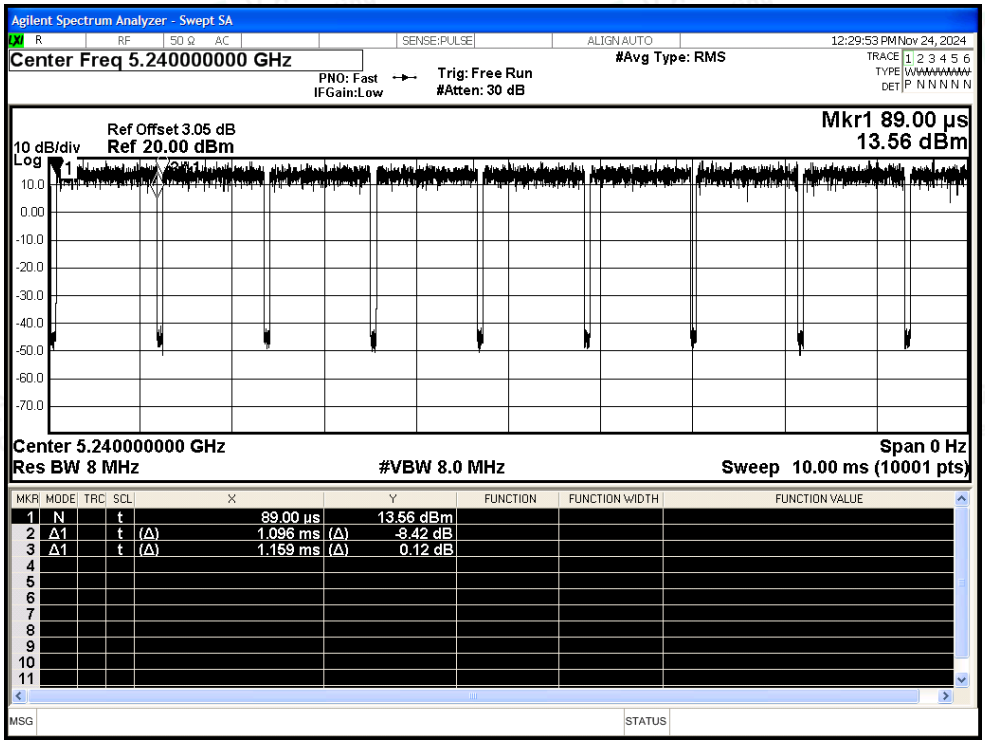
Duty Cycle NVNT a 5180MHz Ant7



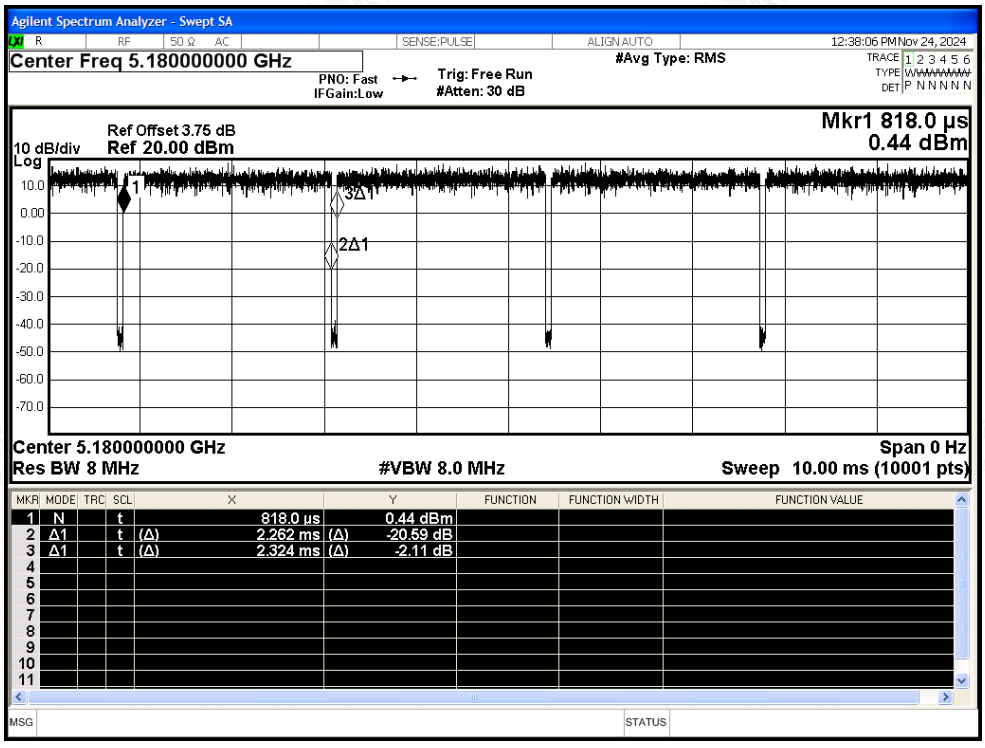
Duty Cycle NVNT a 5200MHz Ant7



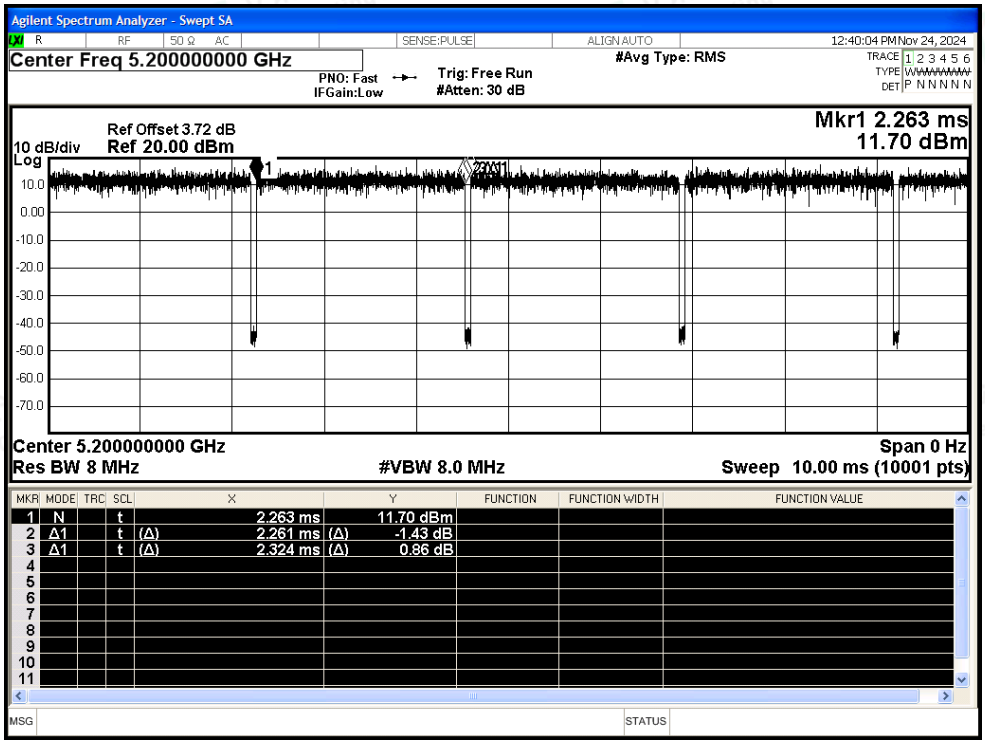
Duty Cycle NVNT a 5240MHz Ant7



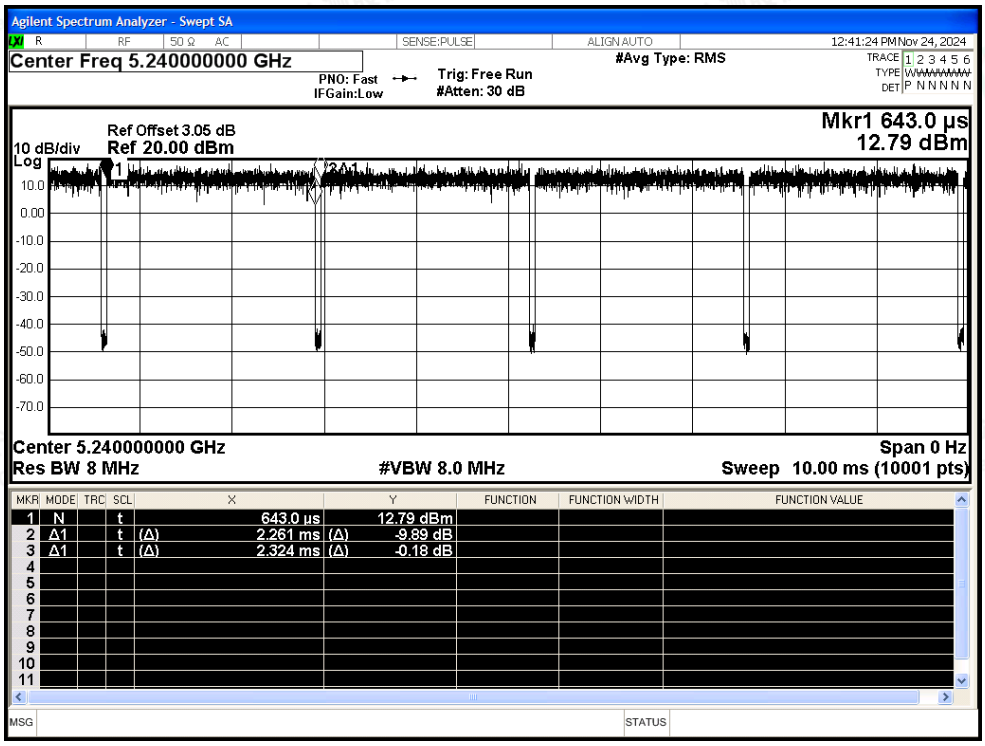
Duty Cycle NVNT n20 5180MHz Ant7



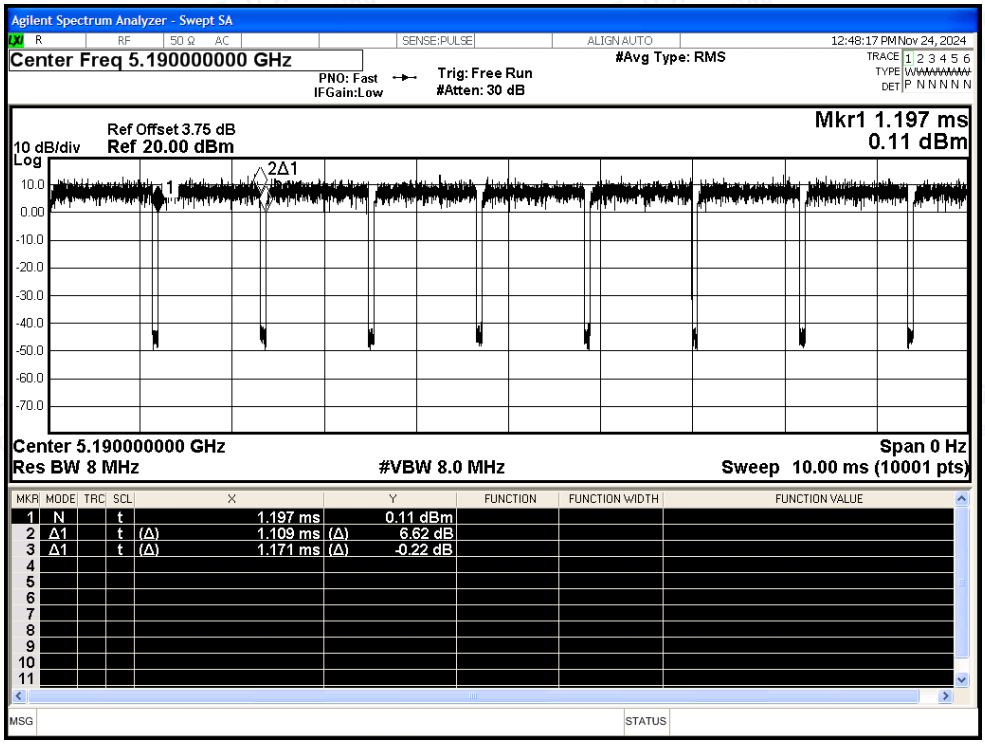
Duty Cycle NVNT n20 5200MHz Ant7



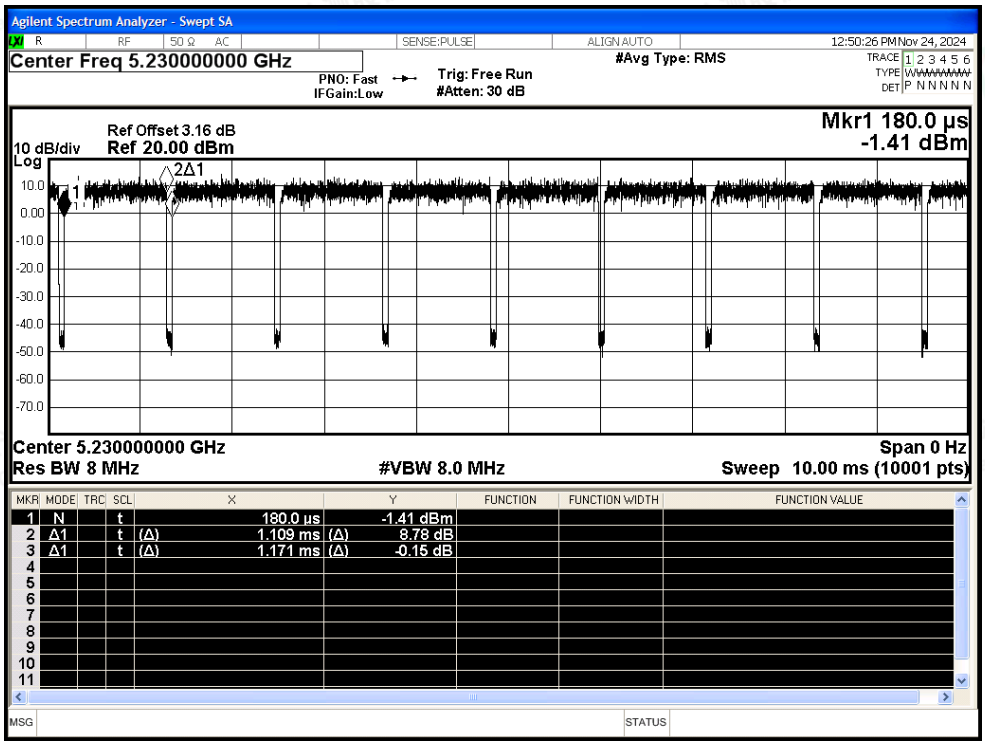
Duty Cycle NVNT n20 5240MHz Ant7



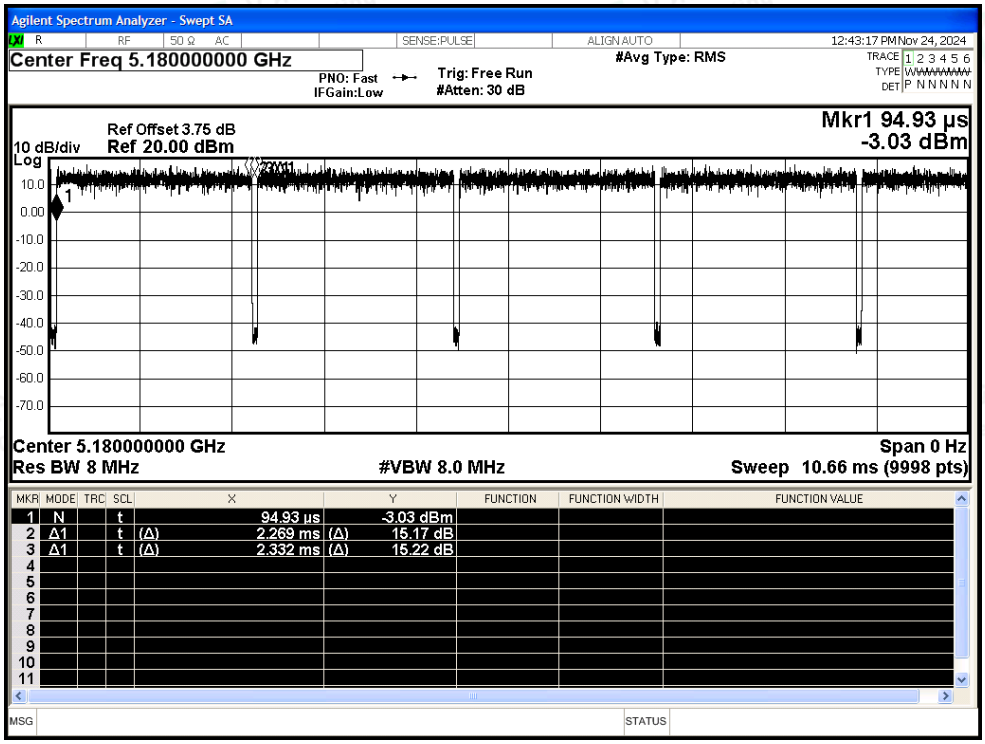
Duty Cycle NVNT n40 5190MHz Ant7



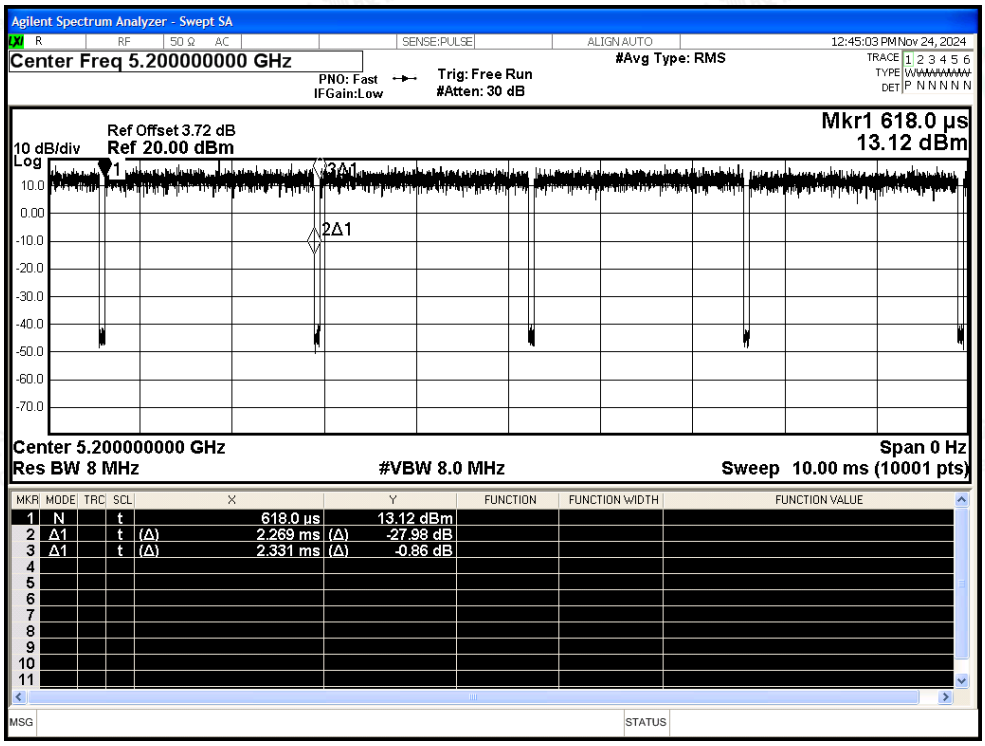
Duty Cycle NVNT n40 5230MHz Ant7



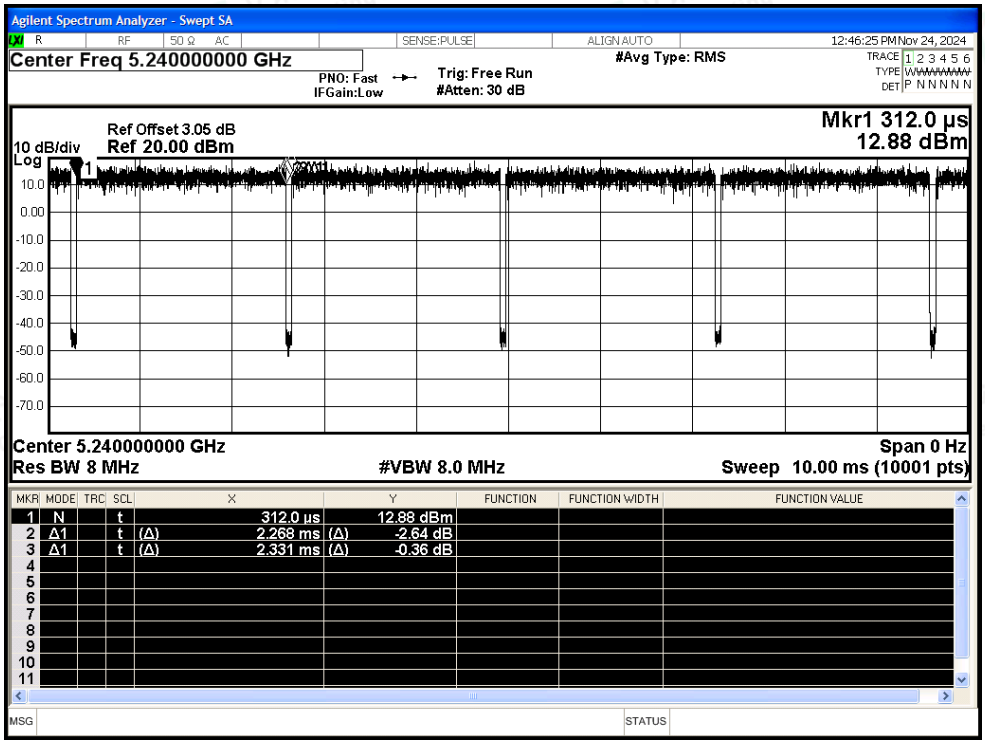
Duty Cycle NVNT ac20 5180MHz Ant7



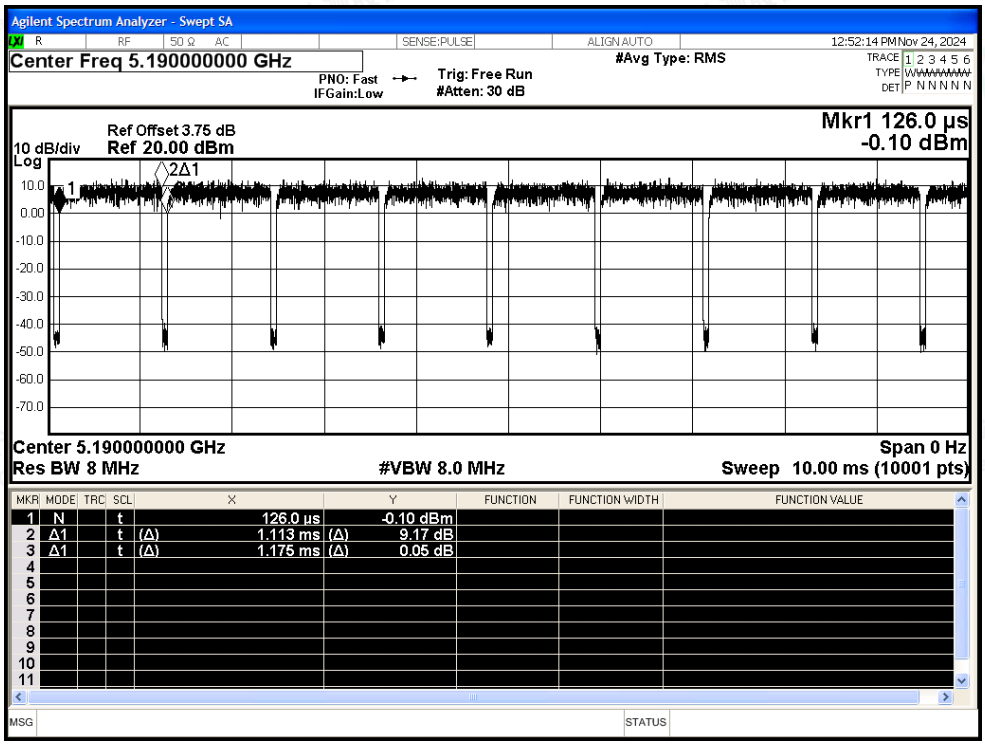
Duty Cycle NVNT ac20 5200MHz Ant7



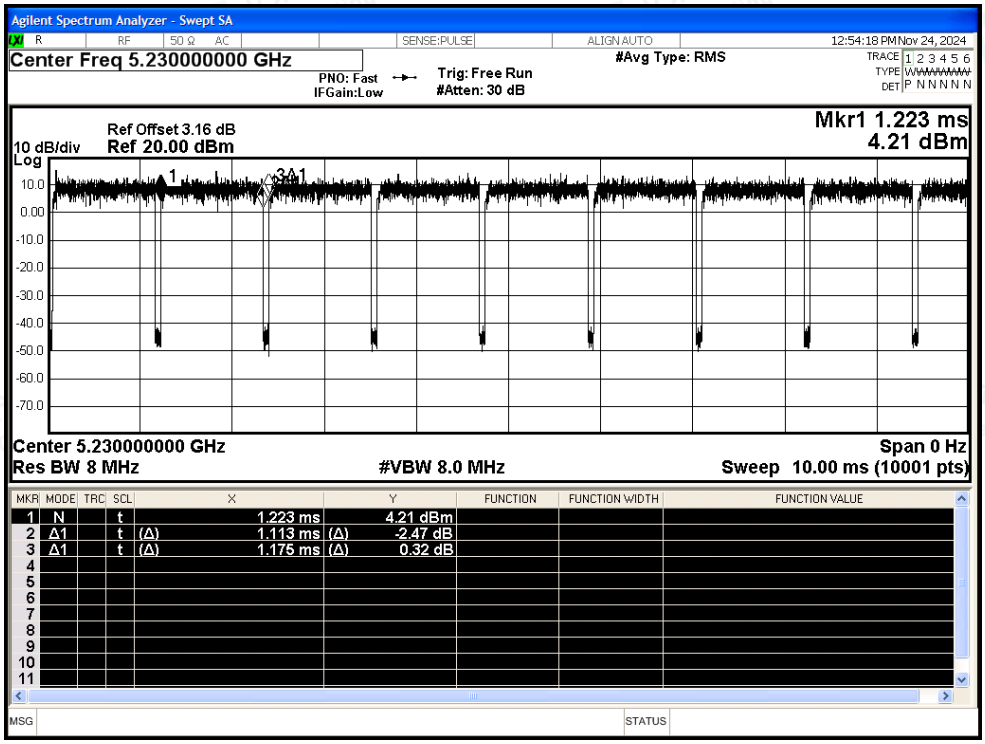
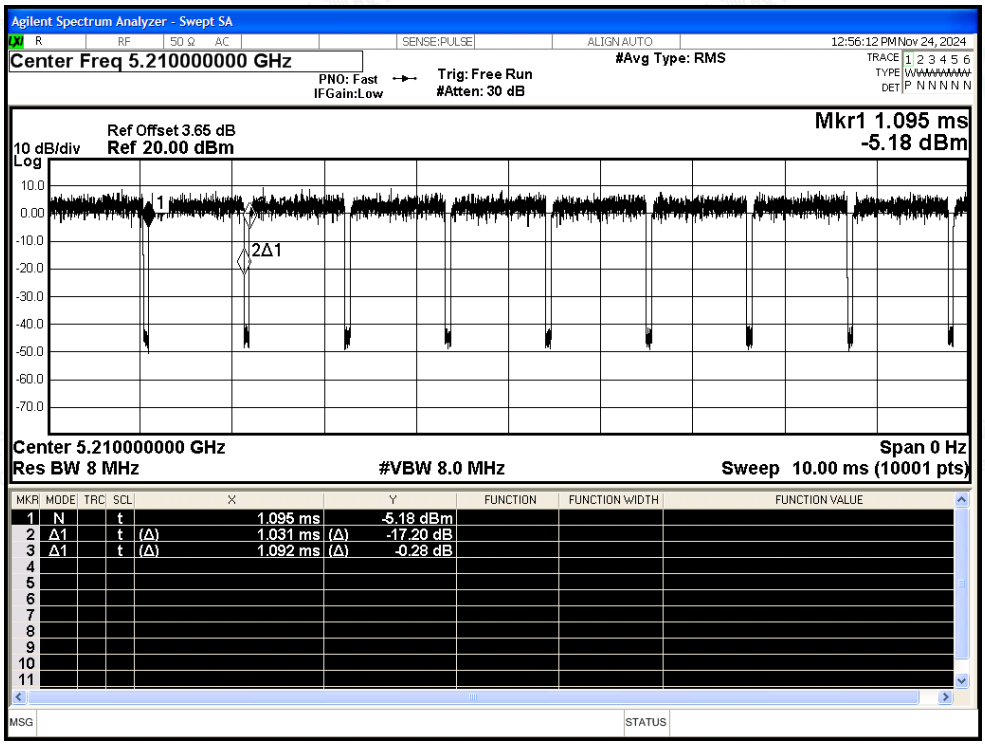
Duty Cycle NVNT ac20 5240MHz Ant7



Duty Cycle NVNT ac40 5190MHz Ant7



Duty Cycle NVNT ac40 5230MHz Ant7



Duty Cycle NVNT ac80 5210MHz Ant7