





Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Camera

Test Model: XC005

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Nick Peng
Supervised by:	 Li Huan





B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant	19.971	No Limit	Pass
NVNT	a	5200	Ant	19.814	No Limit	Pass
NVNT	a	5240	Ant	19.731	No Limit	Pass
NVNT	n20	5180	Ant	20.069	No Limit	Pass
NVNT	n20	5200	Ant	19.728	No Limit	Pass
NVNT	n20	5240	Ant	20.16	No Limit	Pass
NVNT	n40	5190	Ant	40.65	No Limit	Pass
NVNT	n40	5230	Ant	40.204	No Limit	Pass
NVNT	ac20	5180	Ant	20.119	No Limit	Pass
NVNT	ac20	5200	Ant	19.96	No Limit	Pass
NVNT	ac20	5240	Ant	20	No Limit	Pass
NVNT	ac40	5190	Ant	40.246	No Limit	Pass
NVNT	ac40	5230	Ant	40.392	No Limit	Pass
NVNT	ac80	5210	Ant	79.577	No Limit	Pass

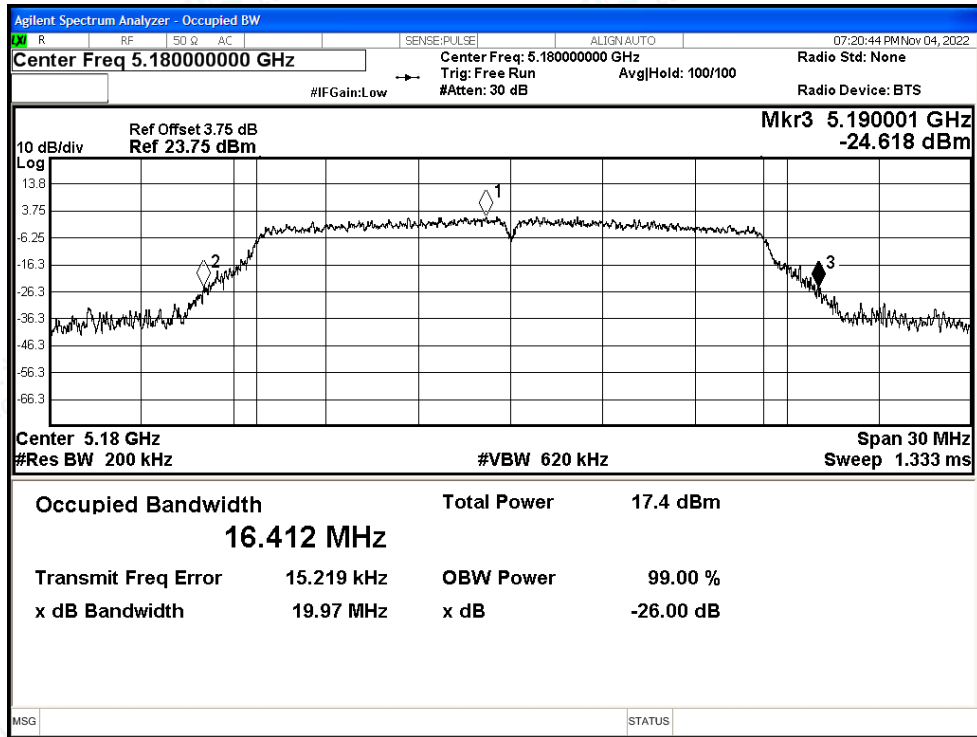


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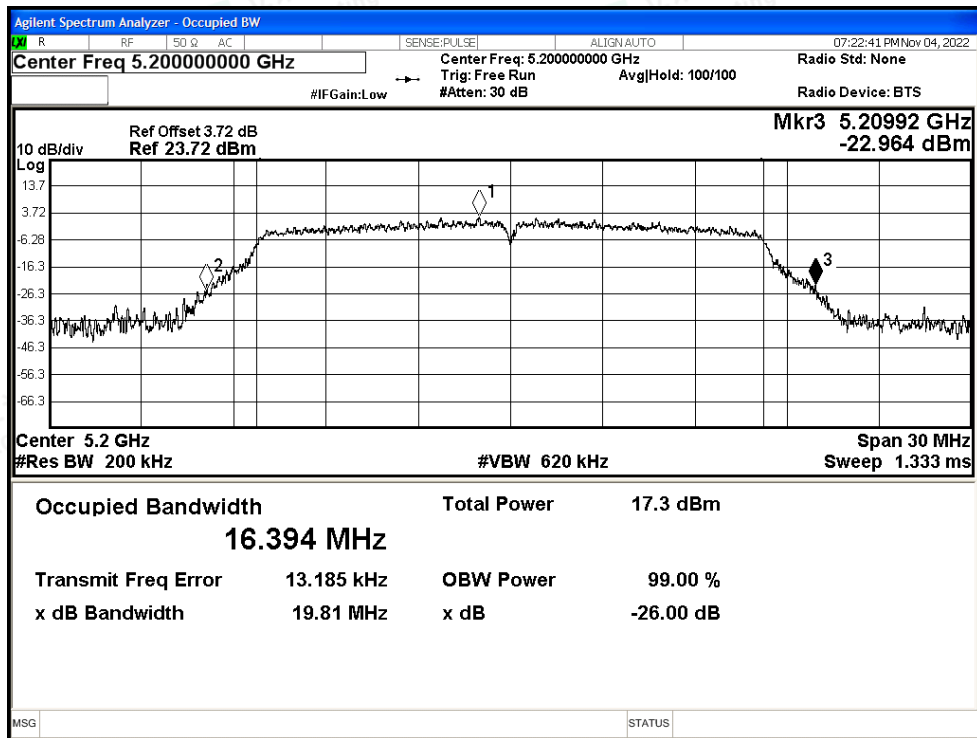


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant

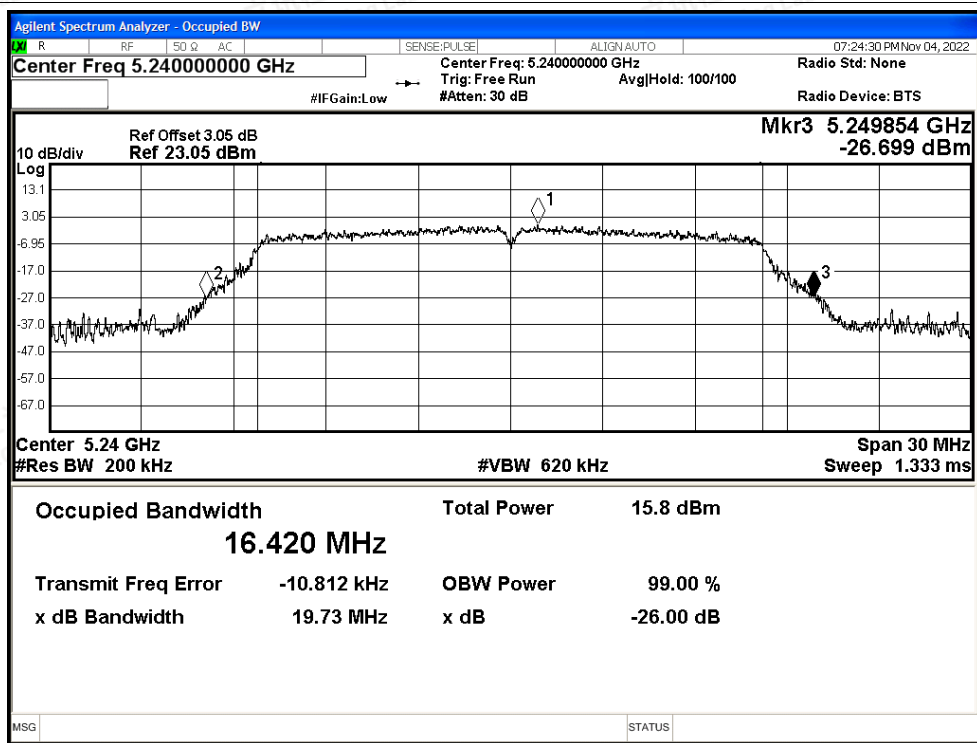


-26dB Bandwidth NVNT a 5200MHz Ant

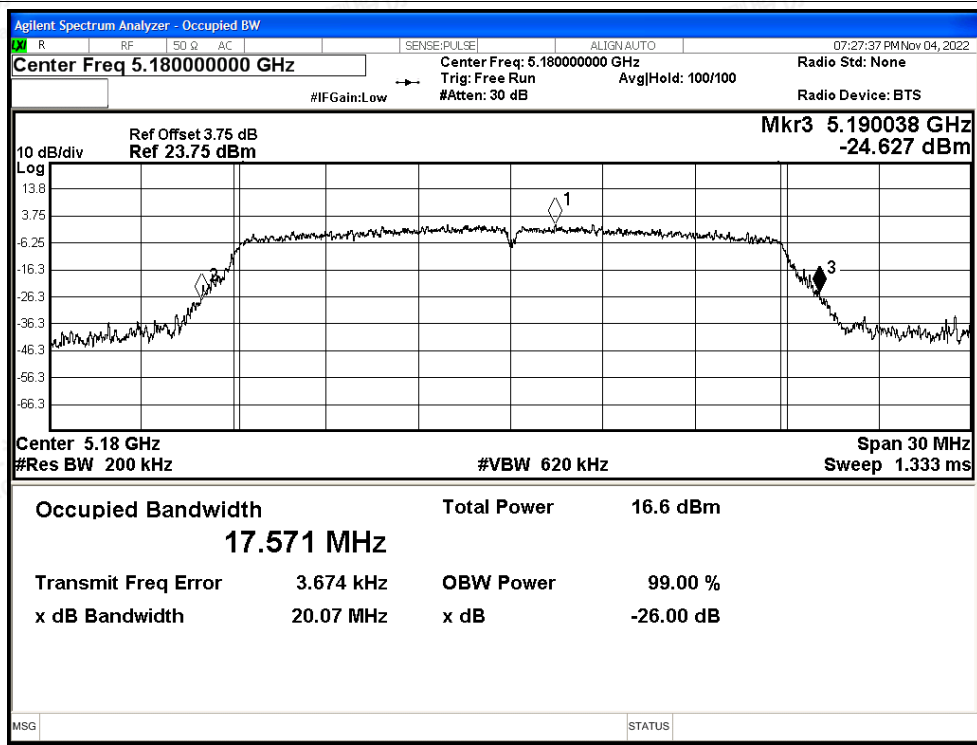




-26dB Bandwidth NVNT a 5240MHz Ant

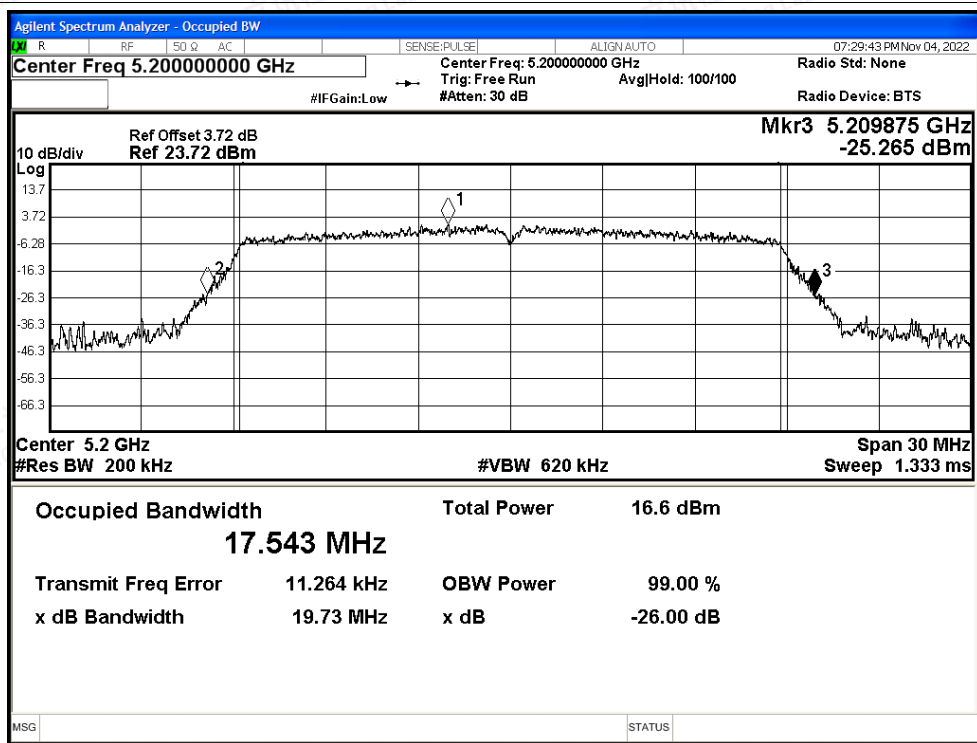


-26dB Bandwidth NVNT n20 5180MHz Ant

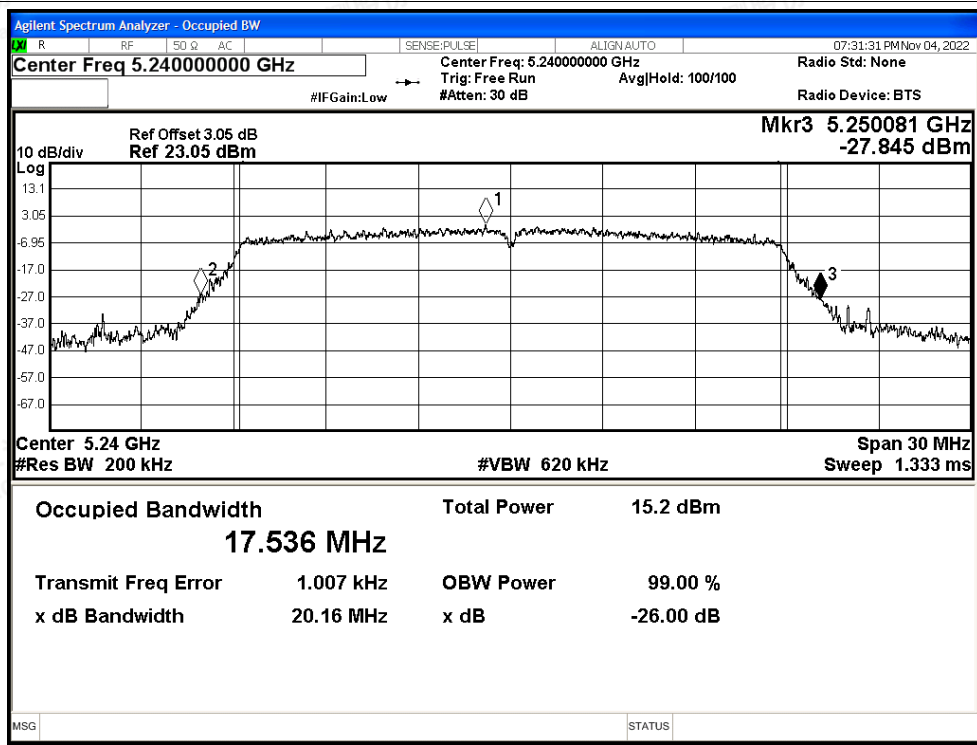




-26dB Bandwidth NVNT n20 5200MHz Ant

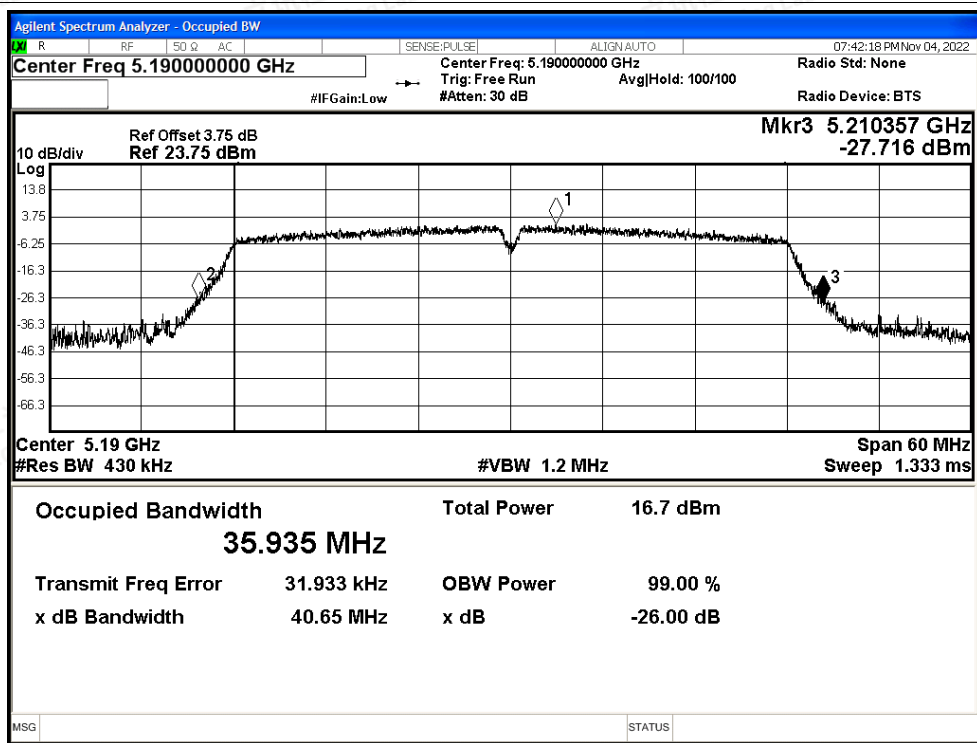


-26dB Bandwidth NVNT n20 5240MHz Ant

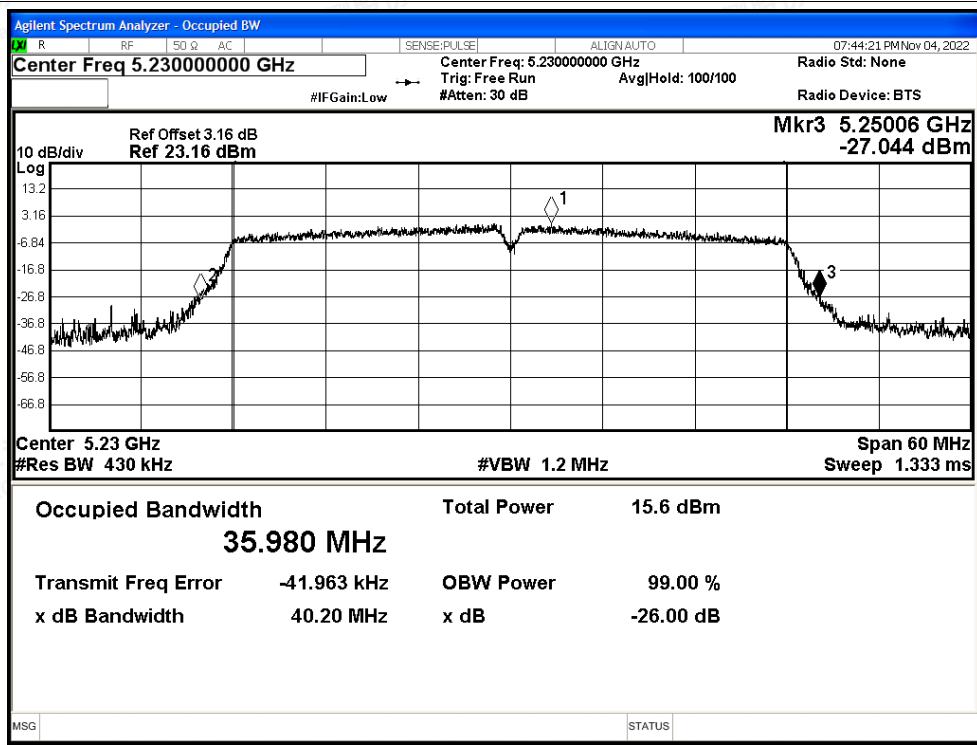




-26dB Bandwidth NVNT n40 5190MHz Ant

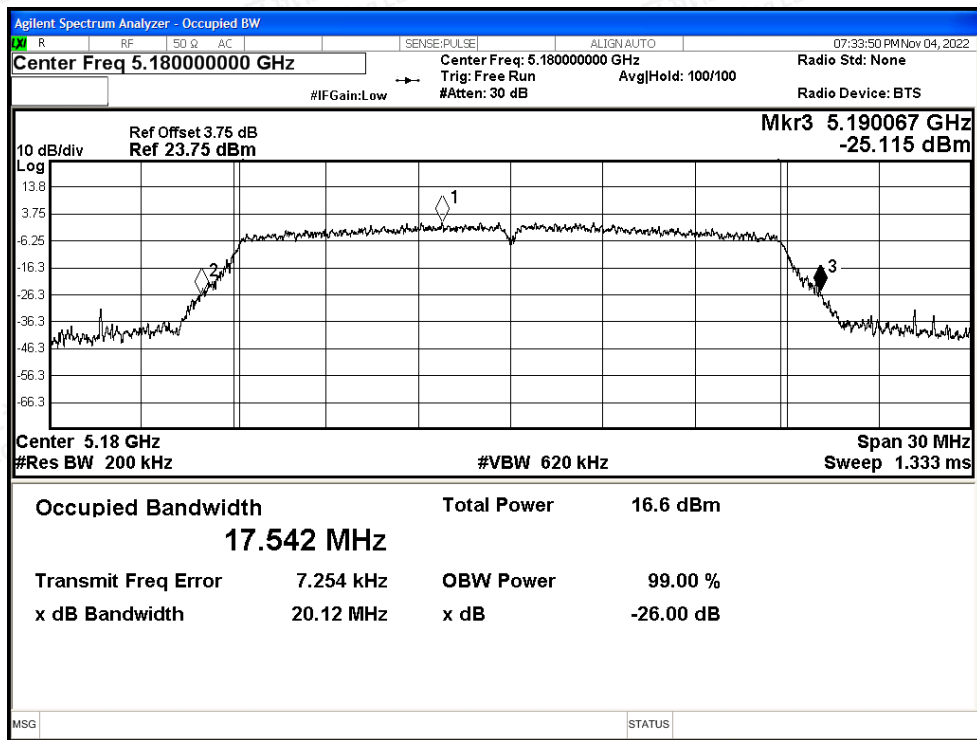


-26dB Bandwidth NVNT n40 5230MHz Ant

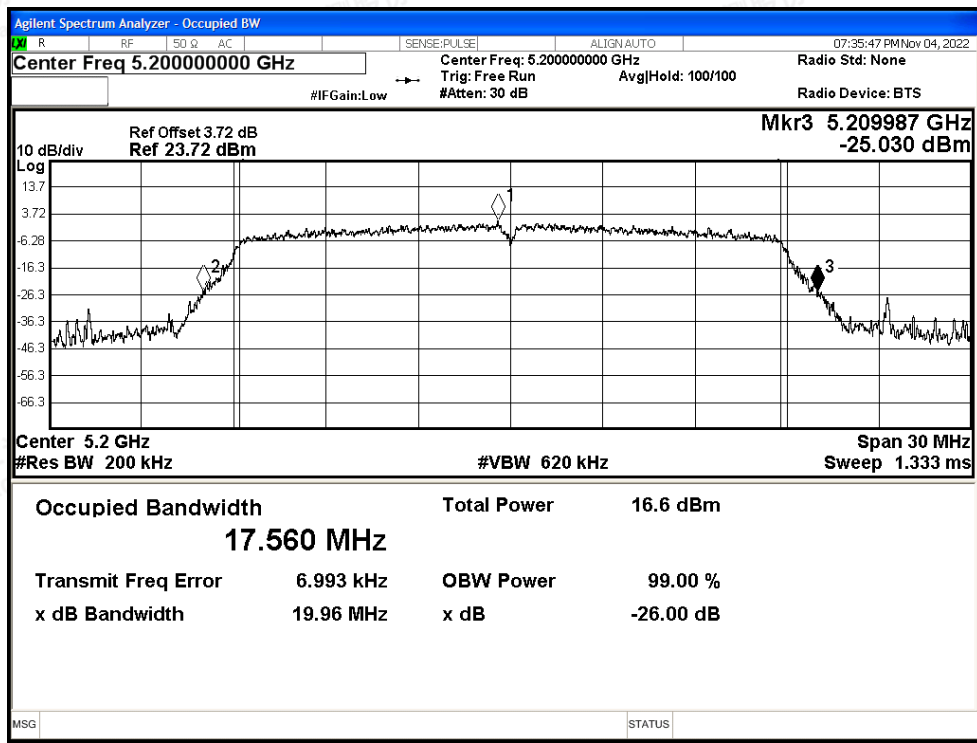




-26dB Bandwidth NVNT ac20 5180MHz Ant

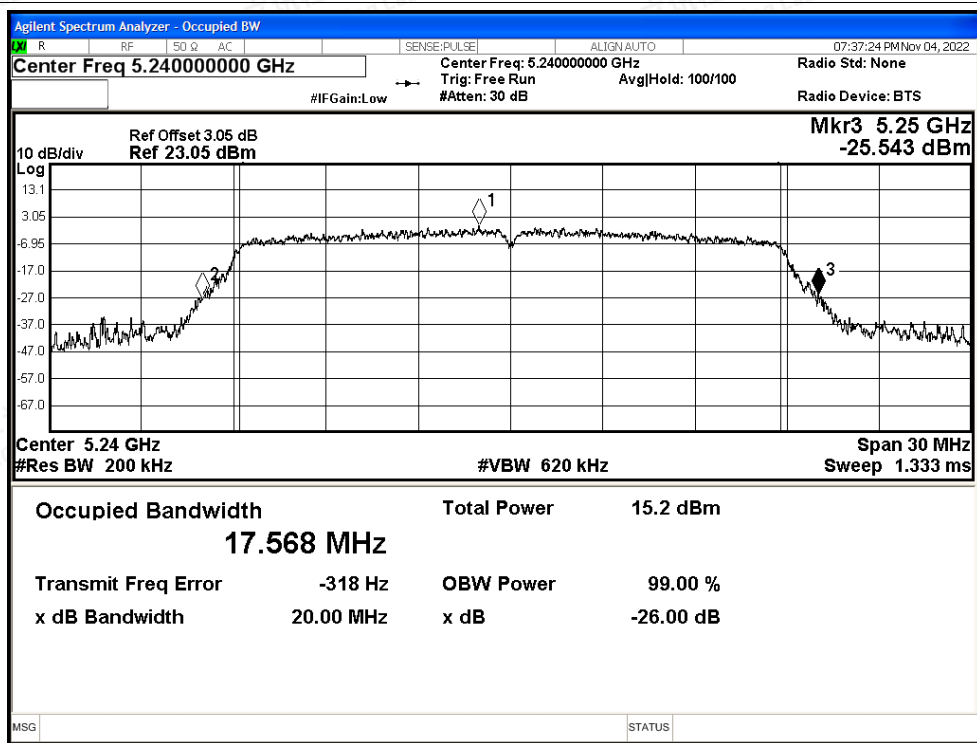


-26dB Bandwidth NVNT ac20 5200MHz Ant

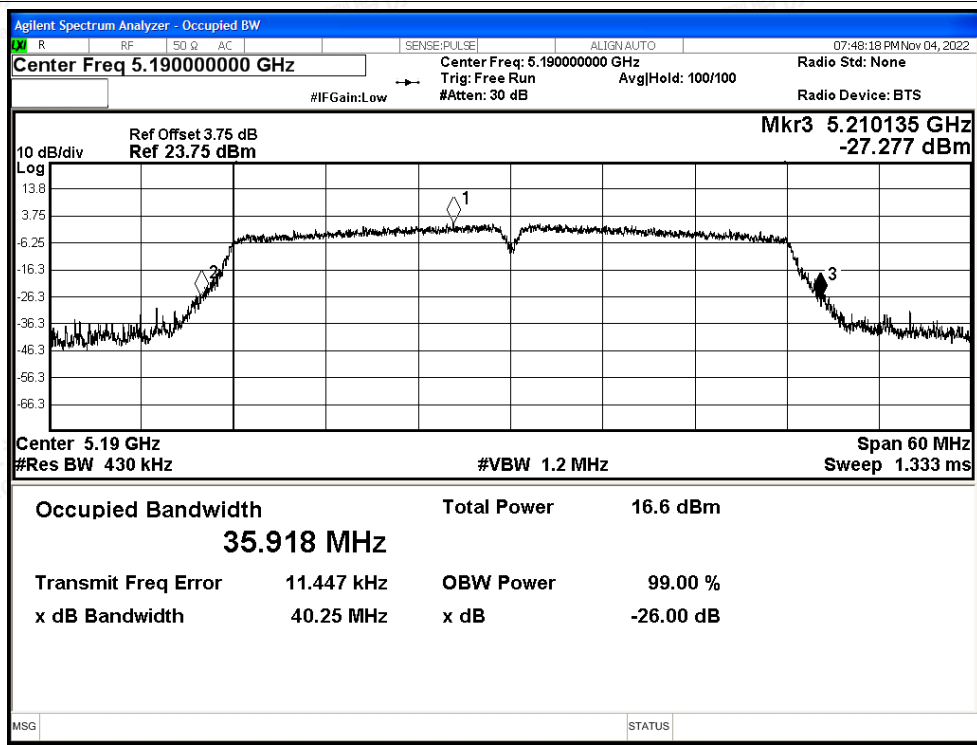




-26dB Bandwidth NVNT ac20 5240MHz Ant

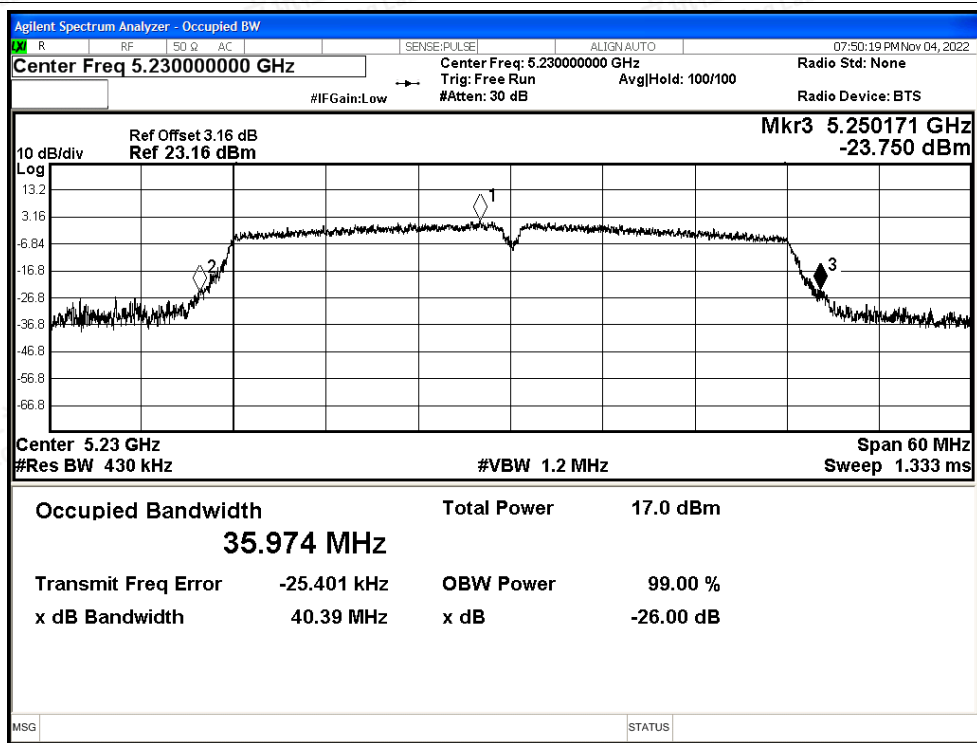


-26dB Bandwidth NVNT ac40 5190MHz Ant

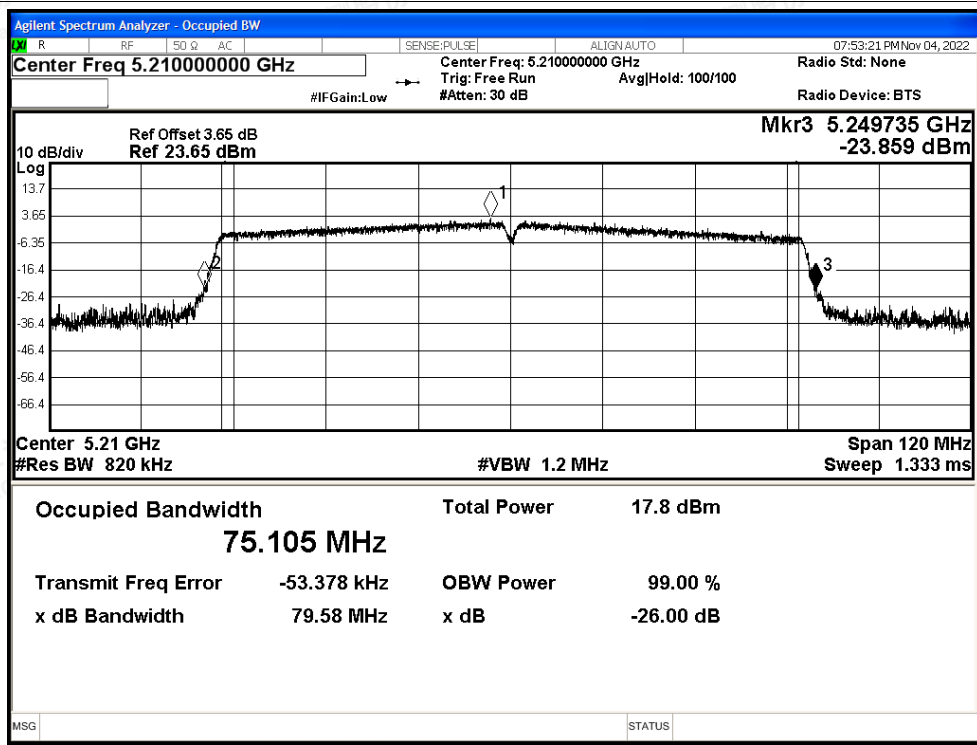




-26dB Bandwidth NVNT ac40 5230MHz Ant



-26dB Bandwidth NVNT ac80 5210MHz Ant





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant	11.98	0	11.98	24	Pass
NVNT	a	5200	Ant	11.93	0	11.93	24	Pass
NVNT	a	5240	Ant	11.41	0	11.41	24	Pass
NVNT	n20	5180	Ant	11.24	0	11.24	24	Pass
NVNT	n20	5200	Ant	11.25	0	11.25	24	Pass
NVNT	n20	5240	Ant	11.63	0	11.63	24	Pass
NVNT	n40	5190	Ant	11.07	0	11.07	24	Pass
NVNT	n40	5230	Ant	11.32	0	11.32	24	Pass
NVNT	ac20	5180	Ant	11.24	0	11.24	24	Pass
NVNT	ac20	5200	Ant	11.24	0	11.24	24	Pass
NVNT	ac20	5240	Ant	11.12	0	11.12	24	Pass
NVNT	ac40	5190	Ant	10.99	0	10.99	24	Pass
NVNT	ac40	5230	Ant	11.13	0	11.13	24	Pass
NVNT	ac80	5210	Ant	11.6	0	11.6	24	Pass



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant	0.85	0	0.85	11	Pass
NVNT	a	5200	Ant	0.43	0	0.43	11	Pass
NVNT	a	5240	Ant	-0.05	0	-0.05	11	Pass
NVNT	n20	5180	Ant	-0.1	0	-0.1	11	Pass
NVNT	n20	5200	Ant	-0.47	0	-0.47	11	Pass
NVNT	n20	5240	Ant	-0.36	0	-0.36	11	Pass
NVNT	n40	5190	Ant	-3.43	0	-3.43	11	Pass
NVNT	n40	5230	Ant	-4.54	0	-4.54	11	Pass
NVNT	ac20	5180	Ant	-0.4	0	-0.4	11	Pass
NVNT	ac20	5200	Ant	-0.17	0	-0.17	11	Pass
NVNT	ac20	5240	Ant	-1.56	0	-1.56	11	Pass
NVNT	ac40	5190	Ant	-3.64	0	-3.64	11	Pass
NVNT	ac40	5230	Ant	-3.02	0	-3.02	11	Pass
NVNT	ac80	5210	Ant	-5.82	0	-5.82	11	Pass

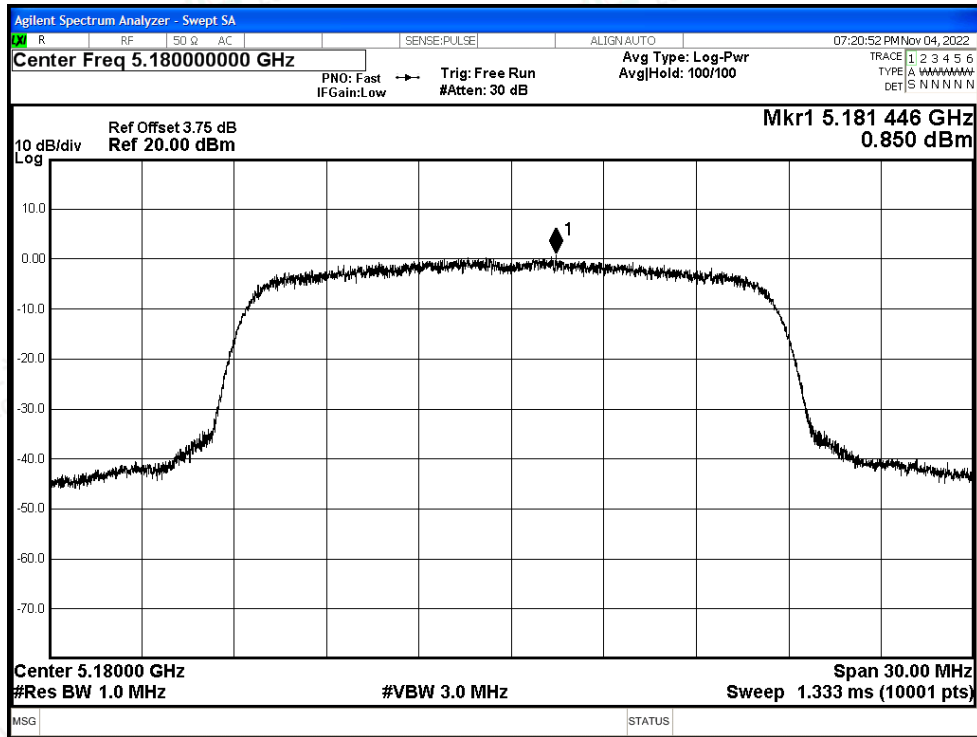


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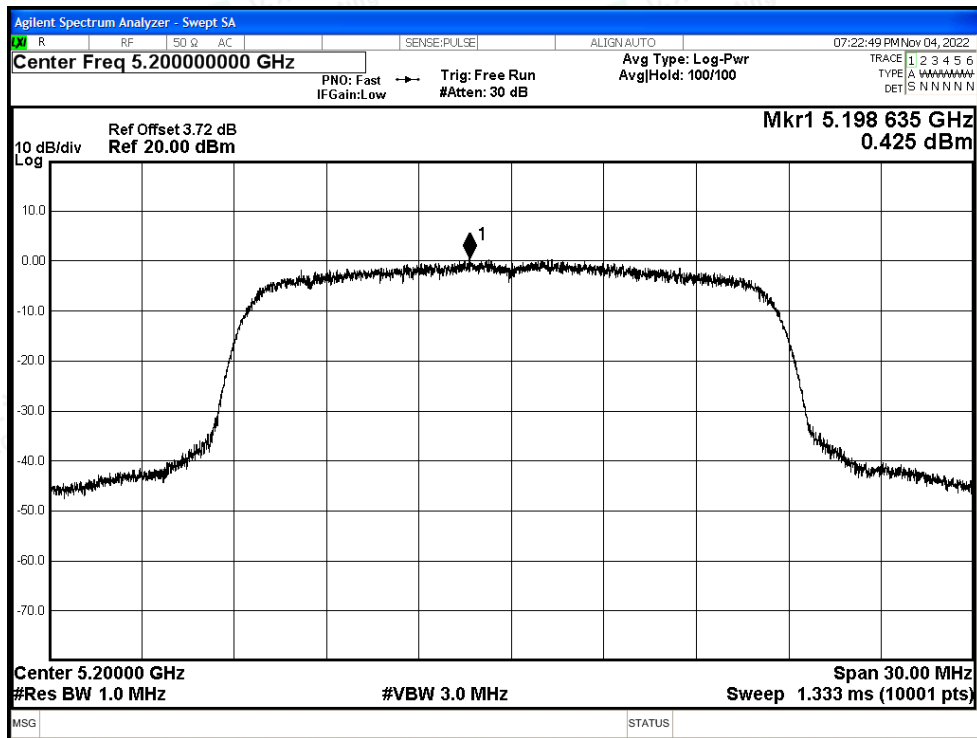


Test Graphs

PSD NVNT a 5180MHz Ant

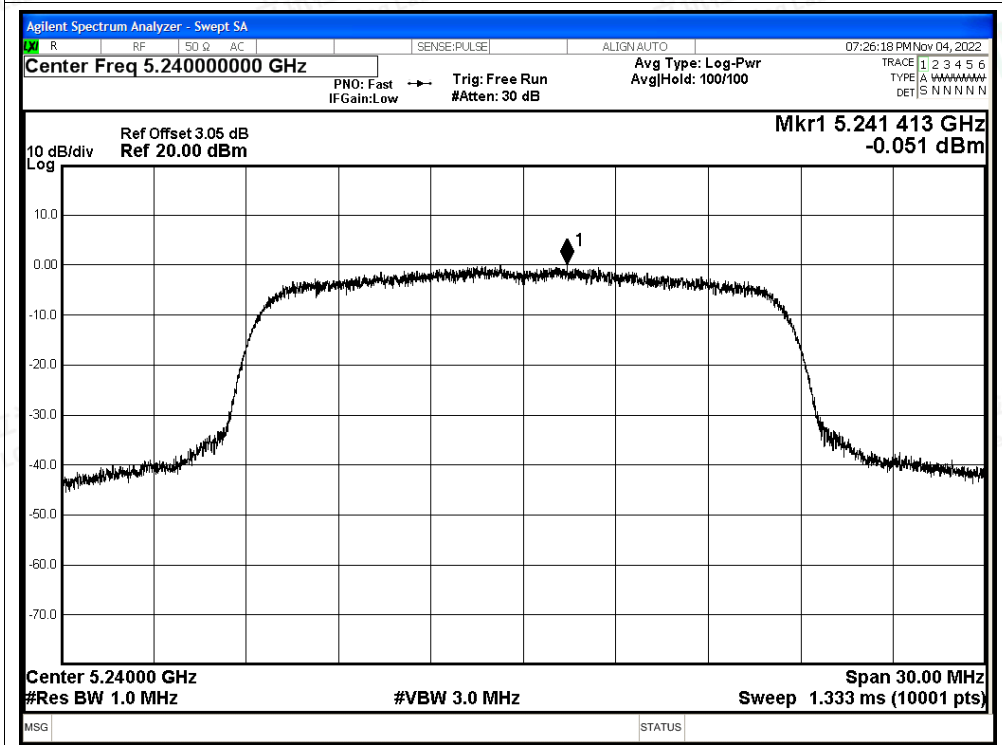


PSD NVNT a 5200MHz Ant

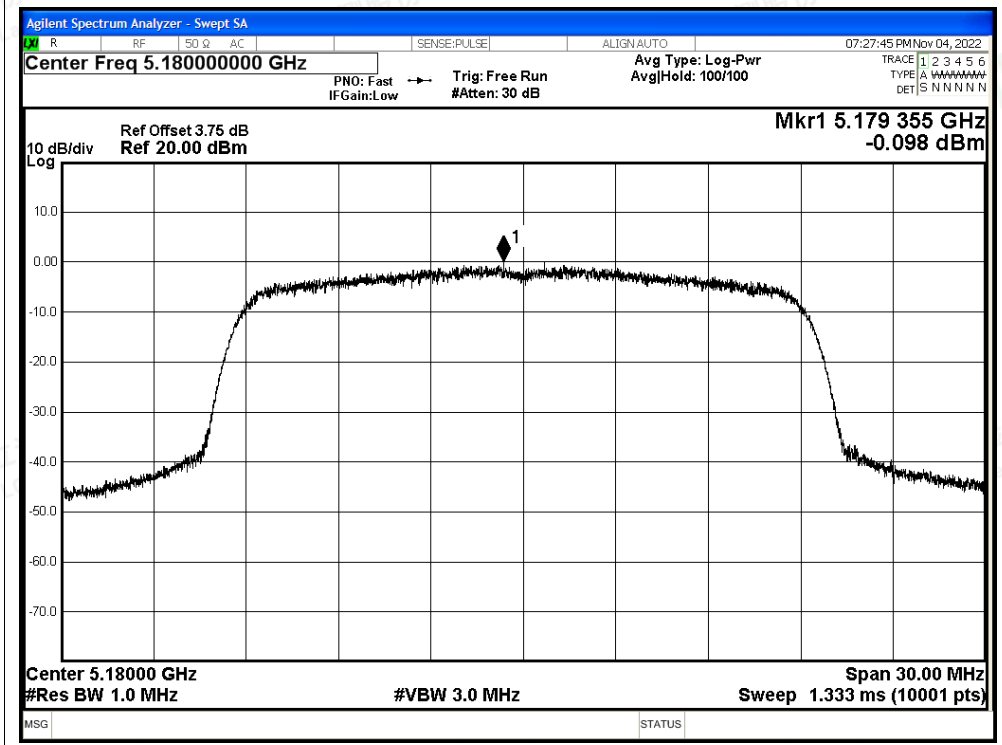


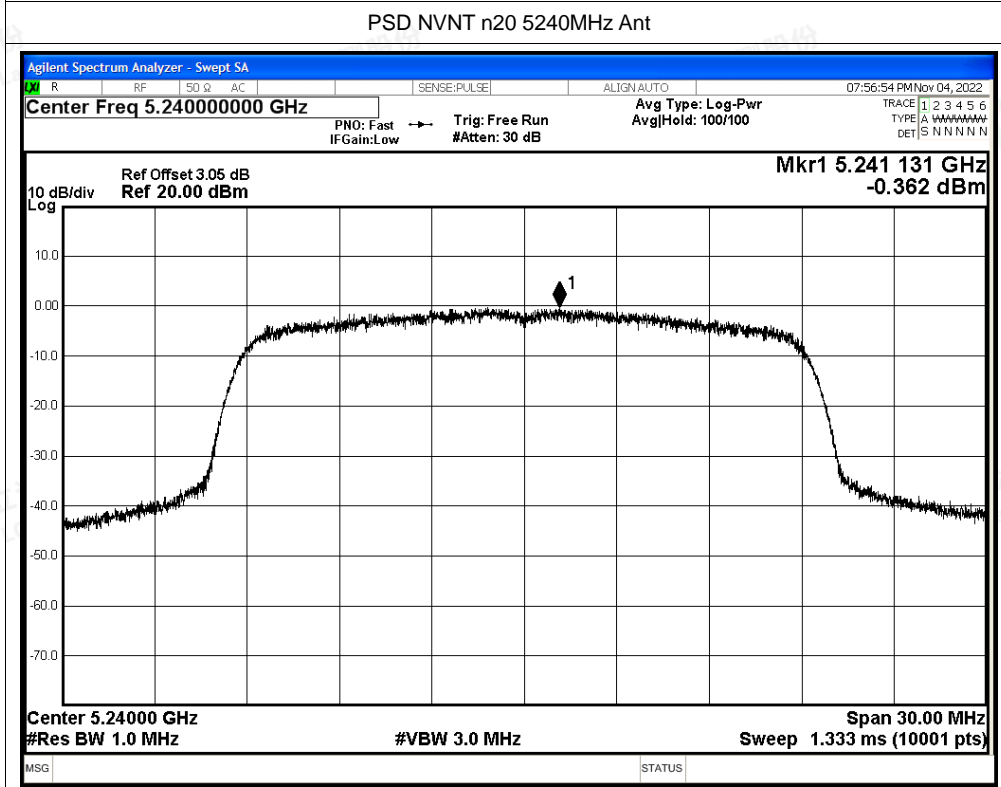
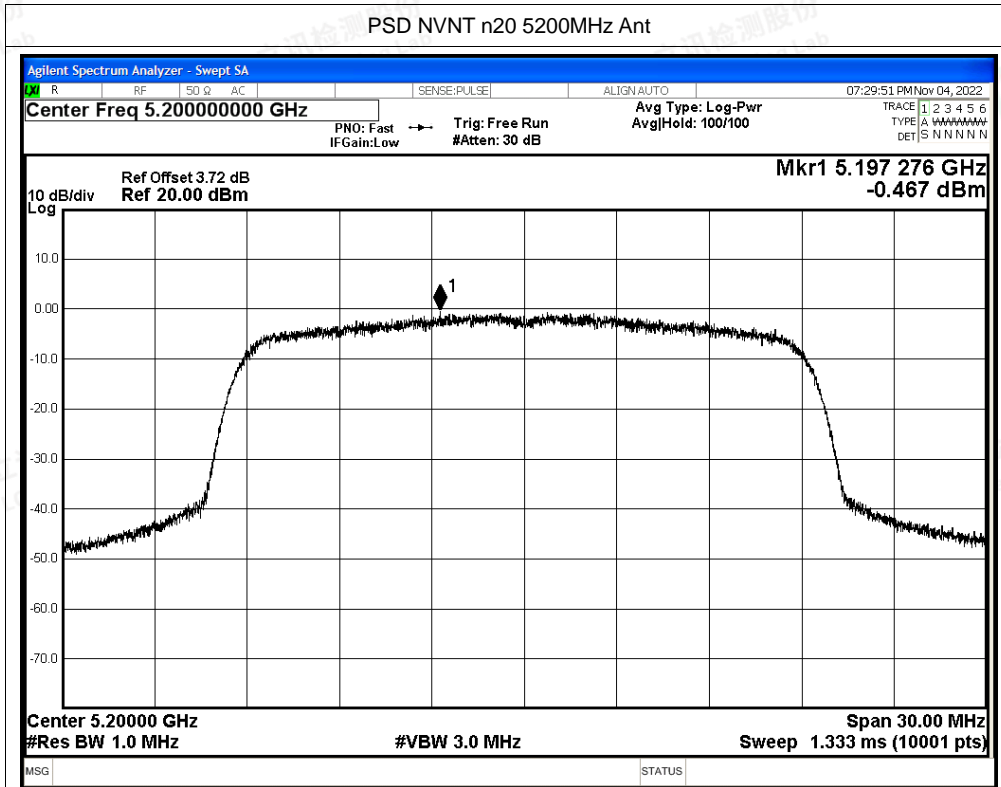


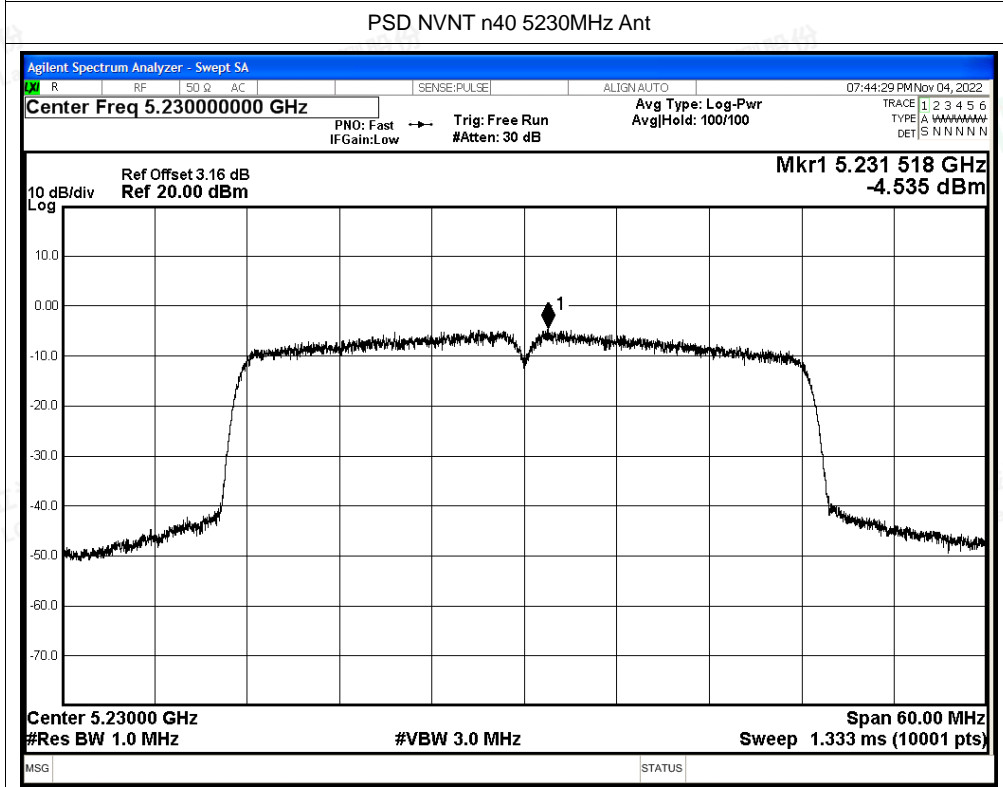
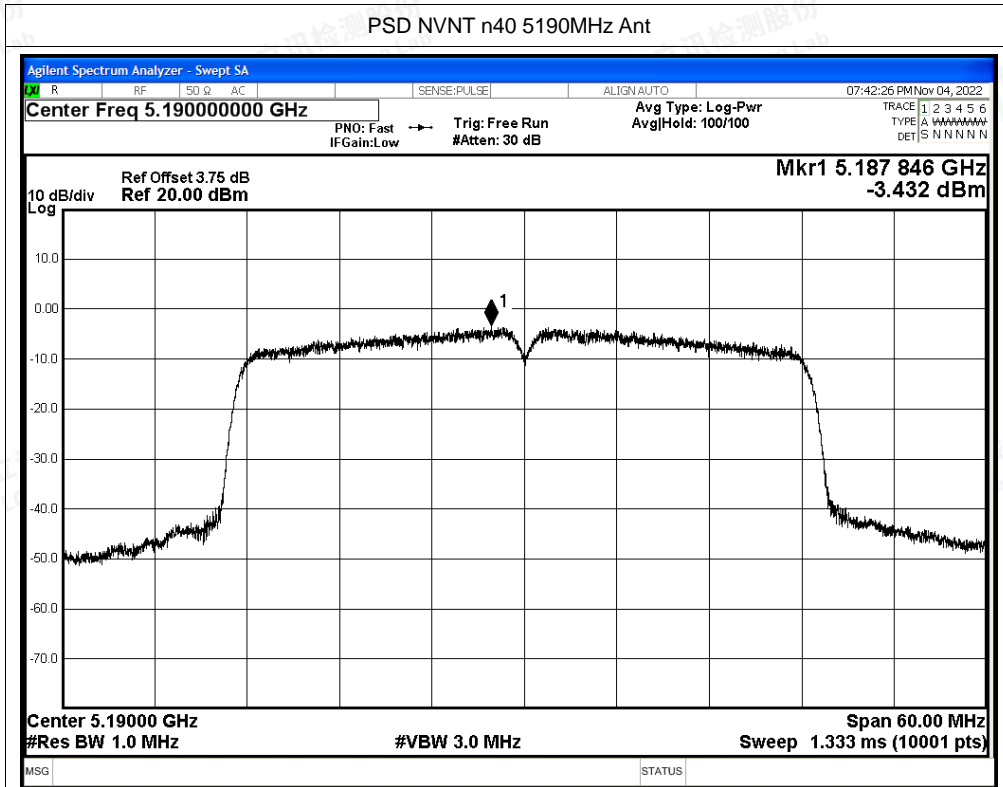
PSD NVNT a 5240MHz Ant

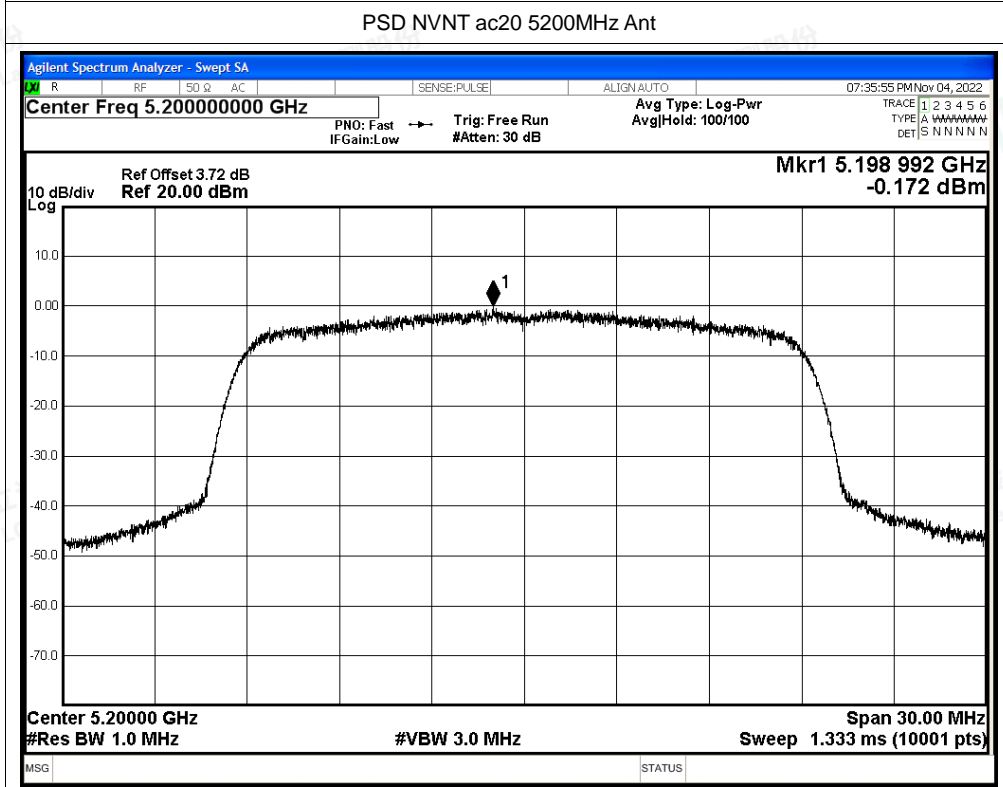
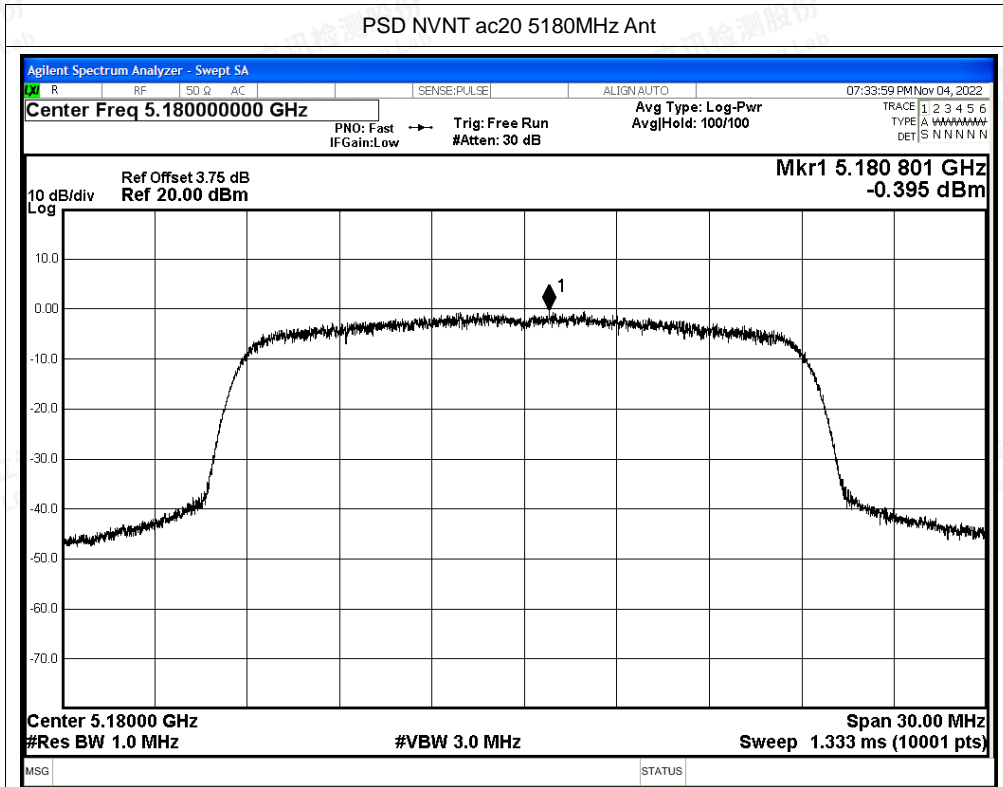


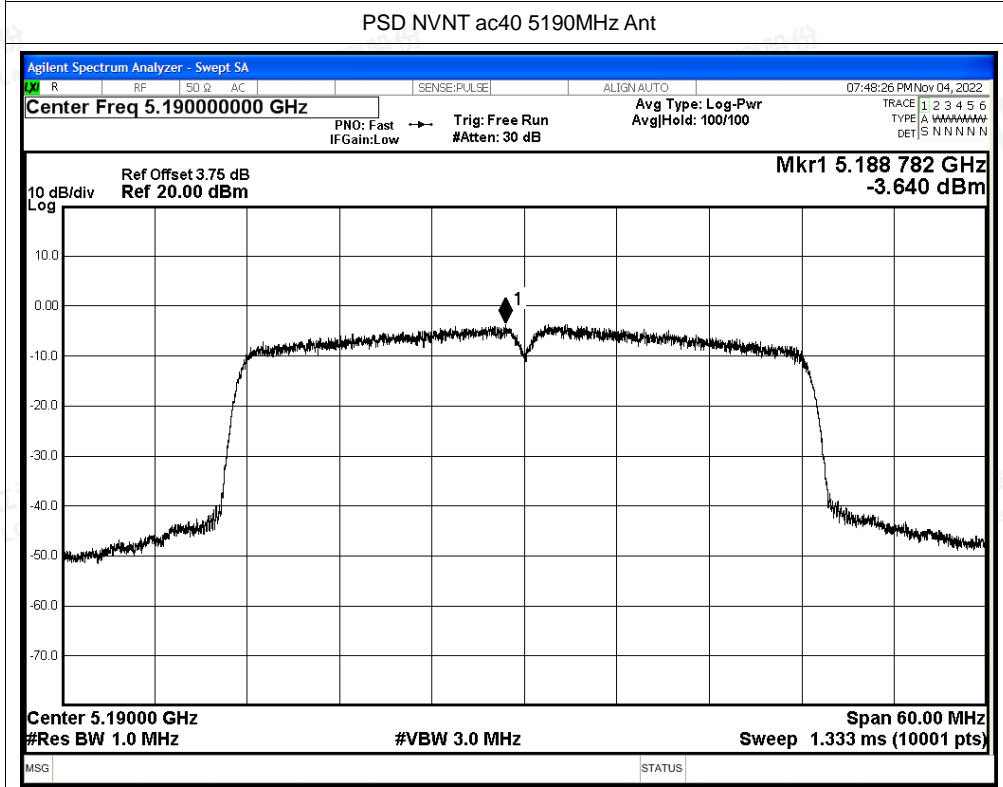
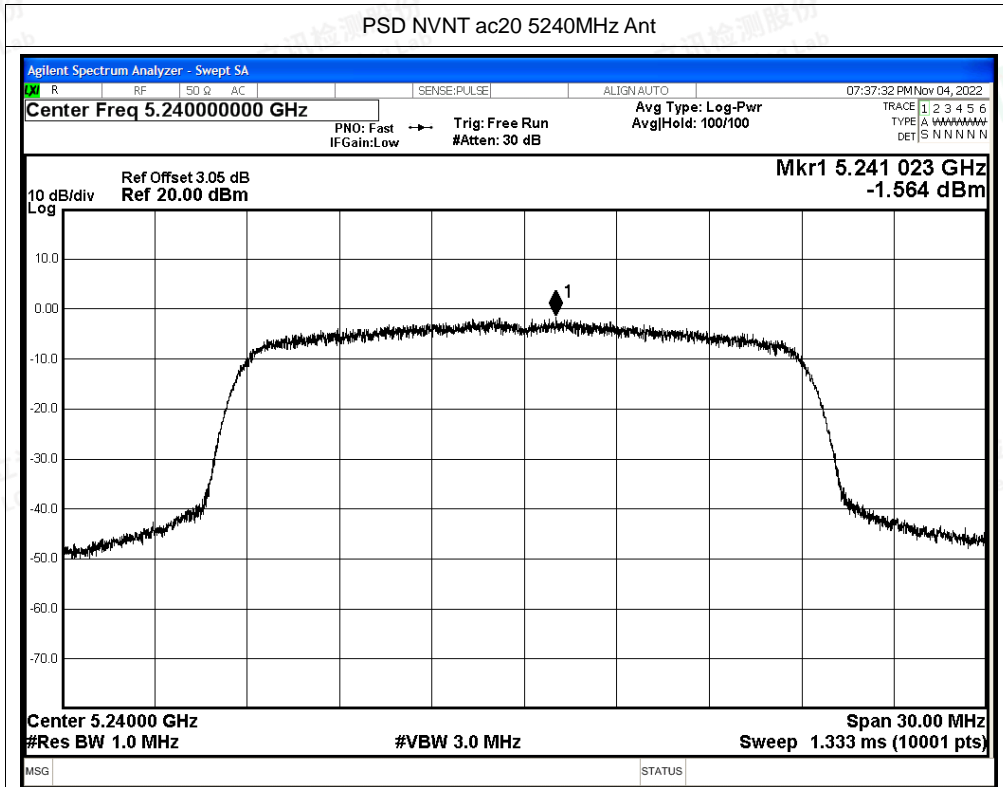
PSD NVNT n20 5180MHz Ant

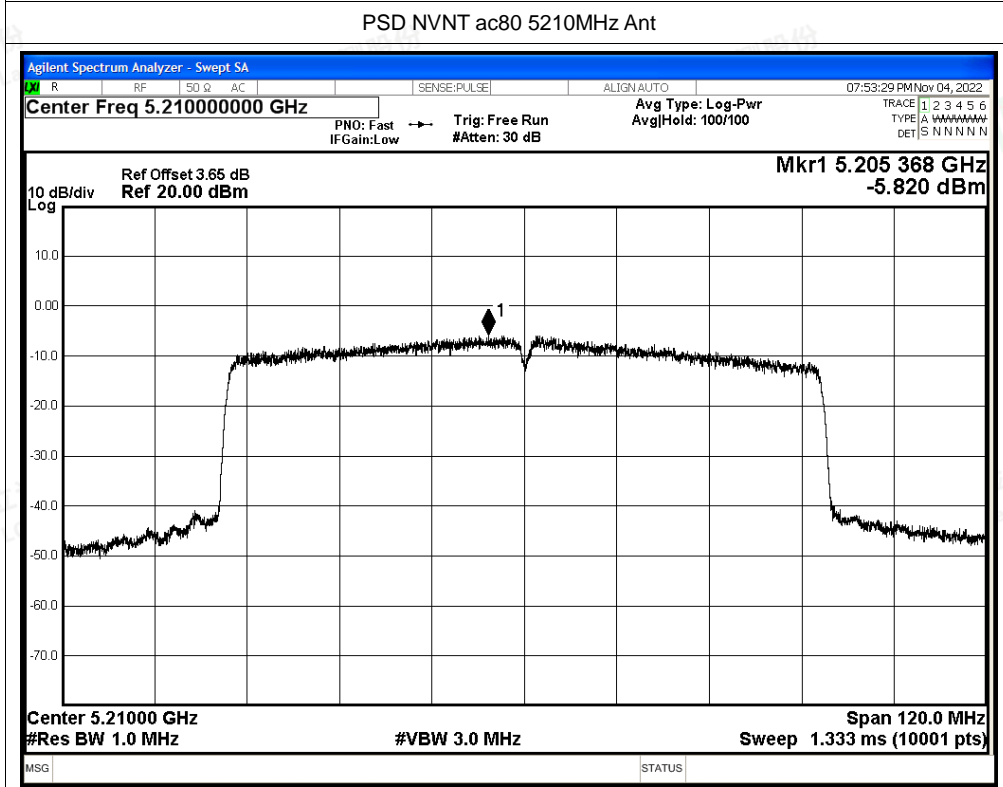
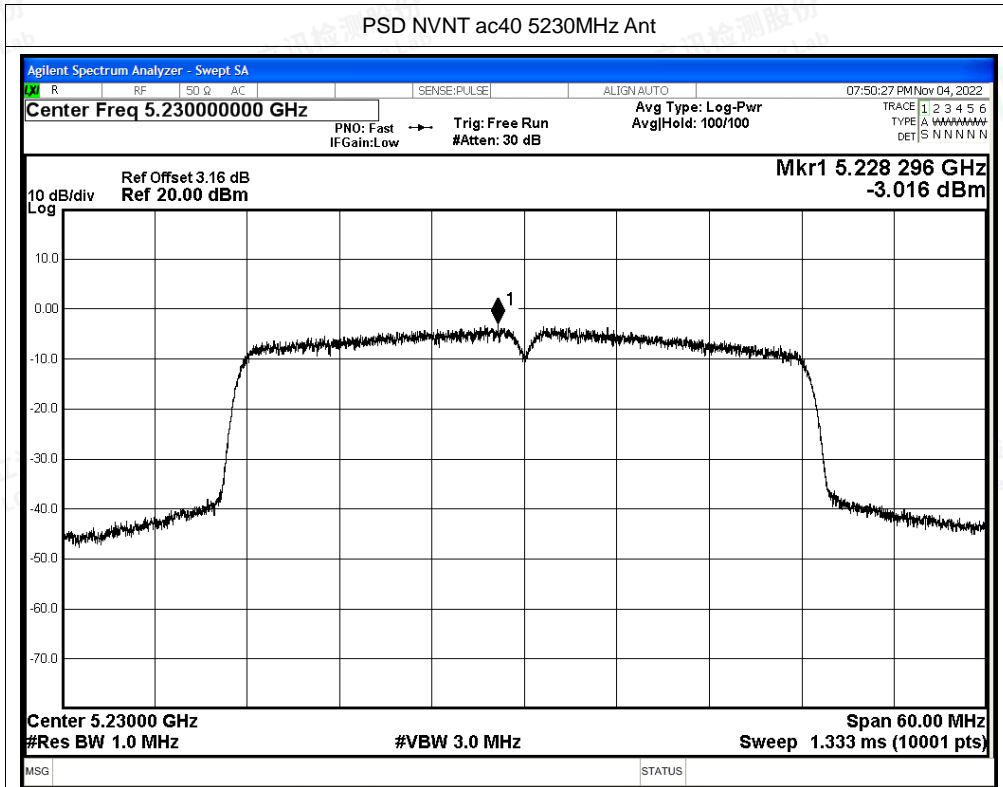














B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant	4500	-49.89	4.03	49.37	Peak	74	Pass
NVNT	a	5180	Ant	4500	-59.83	4.03	39.43	Average	54	Pass
NVNT	a	5180	Ant	5148.2	-35.6	4.03	63.66	Peak	74	Pass
NVNT	a	5180	Ant	5149.6	-50.39	4.03	48.87	Average	54	Pass
NVNT	a	5180	Ant	5150	-37.22	4.03	62.04	Peak	74	Pass
NVNT	a	5180	Ant	5150	-50.24	4.03	49.02	Average	54	Pass
NVNT	a	5240	Ant	5350	-48.03	4.03	51.23	Peak	74	Pass
NVNT	a	5240	Ant	5350	-57.76	4.03	41.50	Average	54	Pass
NVNT	a	5240	Ant	5353.2	-45.76	4.03	53.50	Peak	74	Pass
NVNT	a	5240	Ant	5354.16	-57.6	4.03	41.66	Average	54	Pass
NVNT	a	5240	Ant	5460	-47.75	4.03	51.51	Peak	74	Pass
NVNT	a	5240	Ant	5460	-59.47	4.03	39.79	Average	54	Pass
NVNT	n20	5180	Ant	4500	-50.53	4.03	48.73	Peak	74	Pass
NVNT	n20	5180	Ant	4500	-59.75	4.03	39.51	Average	54	Pass
NVNT	n20	5180	Ant	5148.9	-37.1	4.03	62.16	Peak	74	Pass
NVNT	n20	5180	Ant	5149.6	-52.18	4.03	47.08	Average	54	Pass
NVNT	n20	5180	Ant	5150	-38.23	4.03	61.03	Peak	74	Pass
NVNT	n20	5180	Ant	5150	-52.08	4.03	47.18	Average	54	Pass
NVNT	n20	5240	Ant	5350	-49.33	4.03	49.93	Peak	74	Pass
NVNT	n20	5240	Ant	5350	-57.63	4.03	41.63	Average	54	Pass
NVNT	n20	5240	Ant	5406.96	-45.52	4.03	53.74	Peak	74	Pass
NVNT	n20	5240	Ant	5352.24	-57.5	4.03	41.76	Average	54	Pass
NVNT	n20	5240	Ant	5460	-49.49	4.03	49.77	Peak	74	Pass
NVNT	n20	5240	Ant	5460	-59.36	4.03	39.90	Average	54	Pass
NVNT	n40	5190	Ant	4500	-50.6	4.03	48.66	Peak	74	Pass
NVNT	n40	5190	Ant	4500	-59.47	4.03	39.79	Average	54	Pass
NVNT	n40	5190	Ant	5145.32	-34.88	4.03	64.38	Peak	74	Pass
NVNT	n40	5190	Ant	5146.78	-51.07	4.03	48.19	Average	54	Pass
NVNT	n40	5190	Ant	5150	-36.93	4.03	62.33	Peak	74	Pass
NVNT	n40	5190	Ant	5150	-51.23	4.03	48.03	Average	54	Pass
NVNT	n40	5230	Ant	5350	-49.22	4.03	50.04	Peak	74	Pass
NVNT	n40	5230	Ant	5350	-57.47	4.03	41.79	Average	54	Pass
NVNT	n40	5230	Ant	5363.34	-46.26	4.03	53.00	Peak	74	Pass
NVNT	n40	5230	Ant	5351.19	-57.26	4.03	42.00	Average	54	Pass
NVNT	n40	5230	Ant	5460	-48.36	4.03	50.90	Peak	74	Pass
NVNT	n40	5230	Ant	5460	-59.27	4.03	39.99	Average	54	Pass
NVNT	ac20	5180	Ant	4500	-49.52	4.03	49.74	Peak	74	Pass



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NVNT	ac20	5180	Ant	4500	-59.6	4.03	39.66	Average	54	Pass
NVNT	ac20	5180	Ant	5149.6	-36.48	4.03	62.78	Peak	74	Pass
NVNT	ac20	5180	Ant	5147.5	-52.02	4.03	47.24	Average	54	Pass
NVNT	ac20	5180	Ant	5150	-36.49	4.03	62.77	Peak	74	Pass
NVNT	ac20	5180	Ant	5150	-51.82	4.03	47.44	Average	54	Pass
NVNT	ac20	5240	Ant	5350	-48.14	4.03	51.12	Peak	74	Pass
NVNT	ac20	5240	Ant	5350	-57.52	4.03	41.74	Average	54	Pass
NVNT	ac20	5240	Ant	5436.96	-46.7	4.03	52.56	Peak	74	Pass
NVNT	ac20	5240	Ant	5352.48	-57.29	4.03	41.97	Average	54	Pass
NVNT	ac20	5240	Ant	5460	-49.62	4.03	49.64	Peak	74	Pass
NVNT	ac20	5240	Ant	5460	-59.07	4.03	40.19	Average	54	Pass
NVNT	ac40	5190	Ant	4500	-50.44	4.03	48.82	Peak	74	Pass
NVNT	ac40	5190	Ant	4500	-59.4	4.03	39.86	Average	54	Pass
NVNT	ac40	5190	Ant	5143.86	-36.88	4.03	62.38	Peak	74	Pass
NVNT	ac40	5190	Ant	5149.7	-50.85	4.03	48.41	Average	54	Pass
NVNT	ac40	5190	Ant	5150	-39.7	4.03	59.56	Peak	74	Pass
NVNT	ac40	5190	Ant	5150	-50.85	4.03	48.41	Average	54	Pass
NVNT	ac40	5230	Ant	5350	-48.76	4.03	50.50	Peak	74	Pass
NVNT	ac40	5230	Ant	5350	-56.89	4.03	42.37	Average	54	Pass
NVNT	ac40	5230	Ant	5354.16	-45.75	4.03	53.51	Peak	74	Pass
NVNT	ac40	5230	Ant	5351.73	-56.22	4.03	43.04	Average	54	Pass
NVNT	ac40	5230	Ant	5460	-50.33	4.03	48.93	Peak	74	Pass
NVNT	ac40	5230	Ant	5460	-58.54	4.03	40.72	Average	54	Pass
NVNT	ac80	5210	Ant	5350	-42.89	4.03	56.37	Peak	74	Pass
NVNT	ac80	5210	Ant	5350	-54.64	4.03	44.62	Average	54	Pass
NVNT	ac80	5210	Ant	5359.68	-41.9	4.03	57.36	Peak	74	Pass
NVNT	ac80	5210	Ant	5350.44	-53.91	4.03	45.35	Average	54	Pass
NVNT	ac80	5210	Ant	5460	-49.44	4.03	49.82	Peak	74	Pass
NVNT	ac80	5210	Ant	5460	-57.94	4.03	41.32	Average	54	Pass
NVNT	ac80	5210	Ant	4500	-49.96	4.03	49.30	Peak	74	Pass
NVNT	ac80	5210	Ant	4500	-58.69	4.03	40.57	Average	54	Pass
NVNT	ac80	5210	Ant	5149.38	-30.69	4.03	68.57	Peak	74	Pass
NVNT	ac80	5210	Ant	5142.27	-46.5	4.03	52.76	Average	54	Pass
NVNT	ac80	5210	Ant	5150	-30.77	4.03	68.49	Peak	74	Pass
NVNT	ac80	5210	Ant	5150	-46.94	4.03	52.32	Average	54	Pass

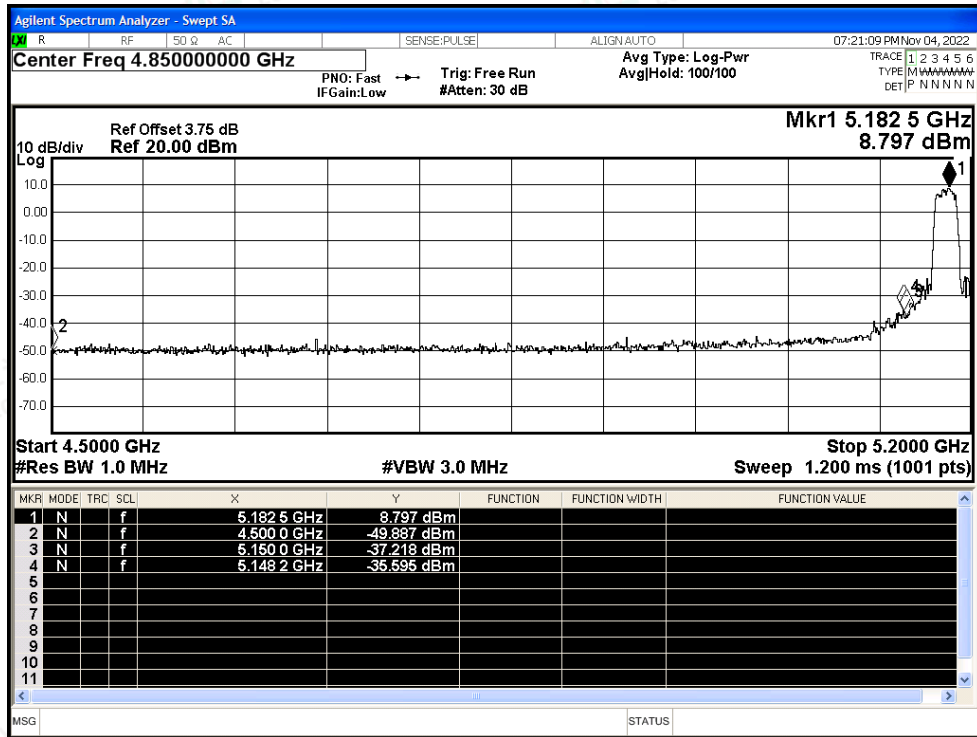


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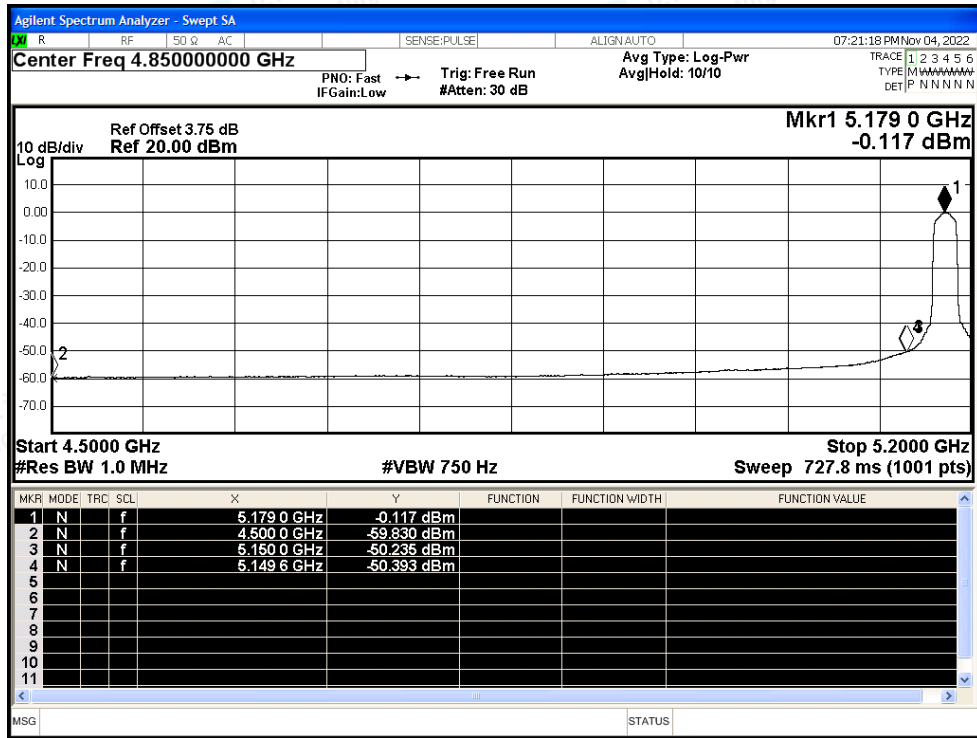


Test Graphs

Restrict Band NVNT a 5180MHz Ant Peak

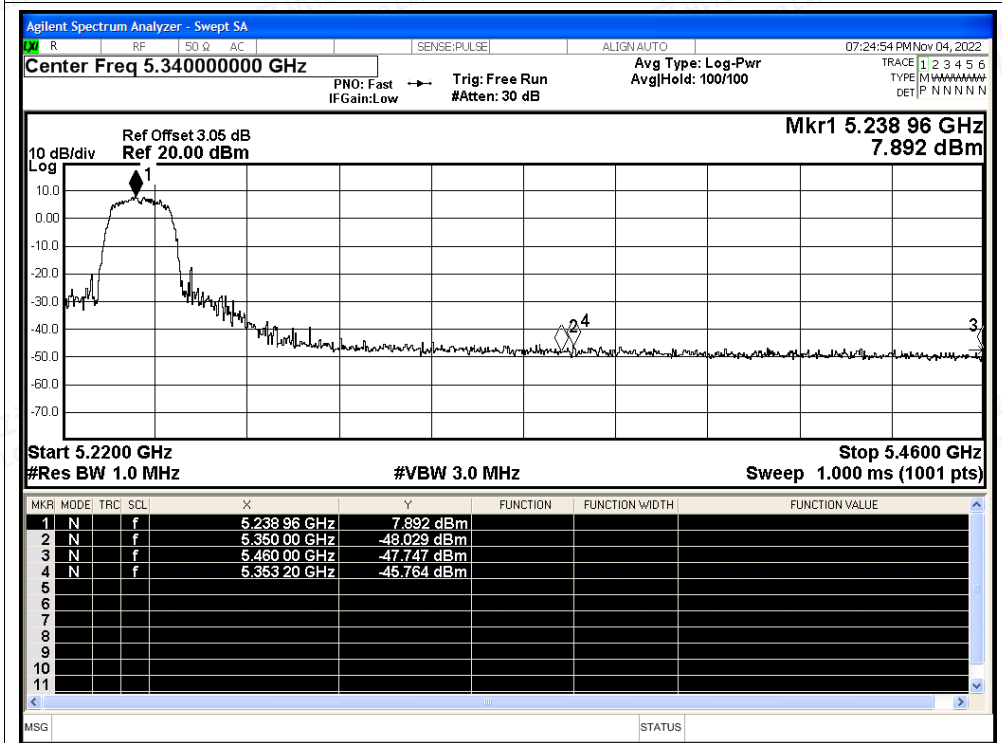


Restrict Band NVNT a 5180MHz Ant Average

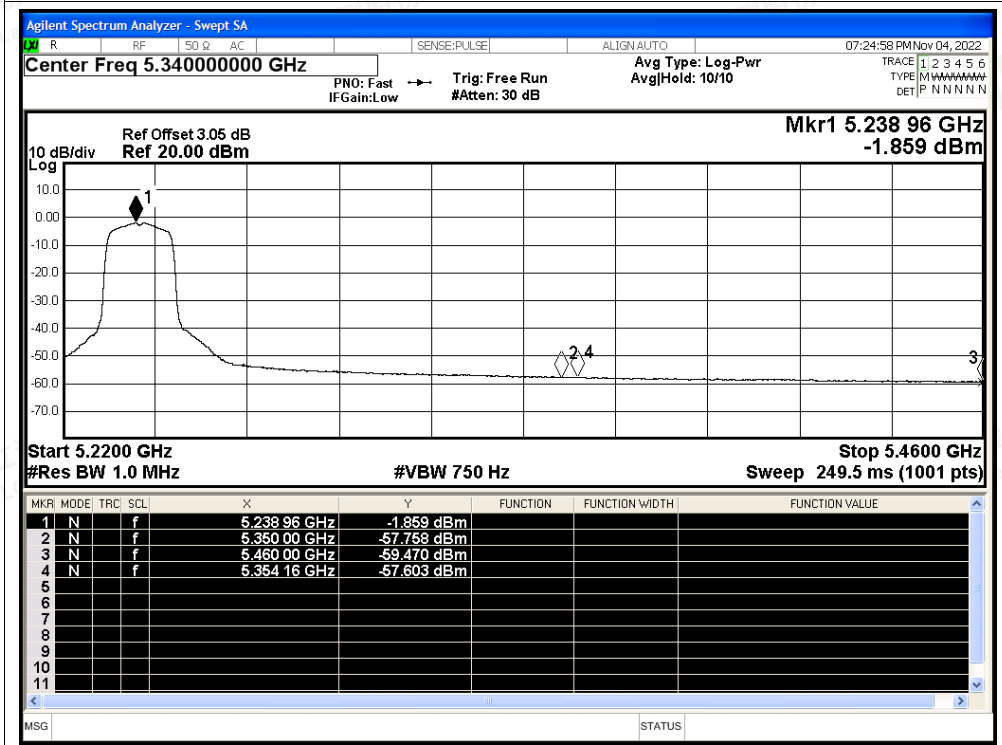


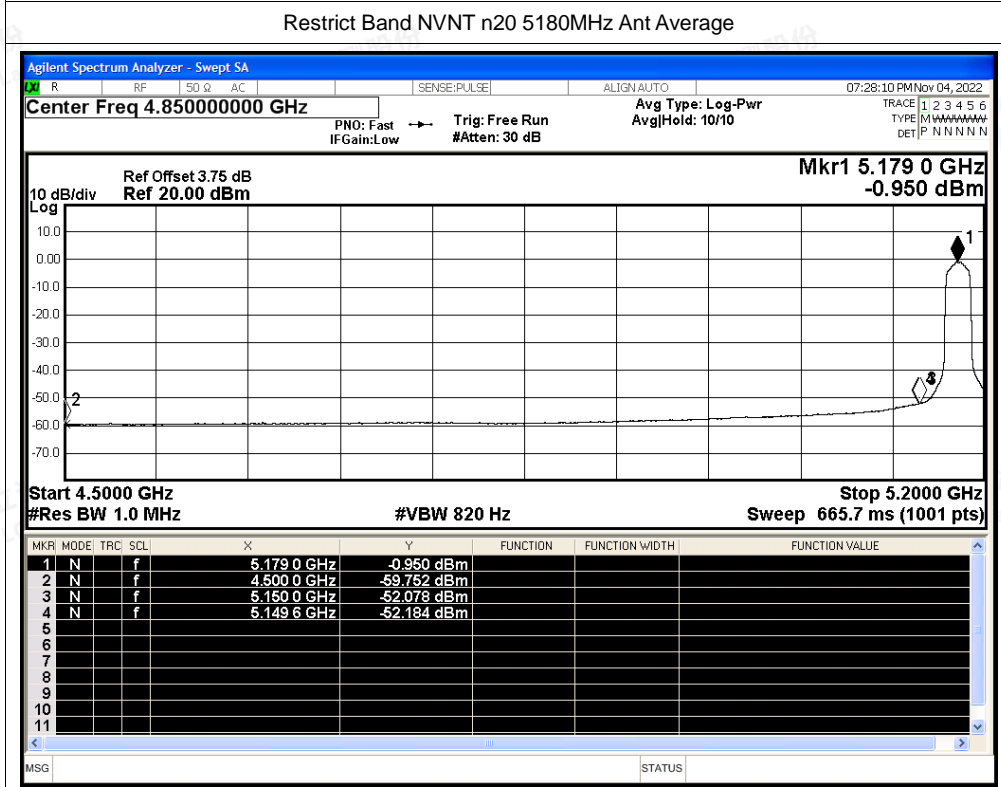
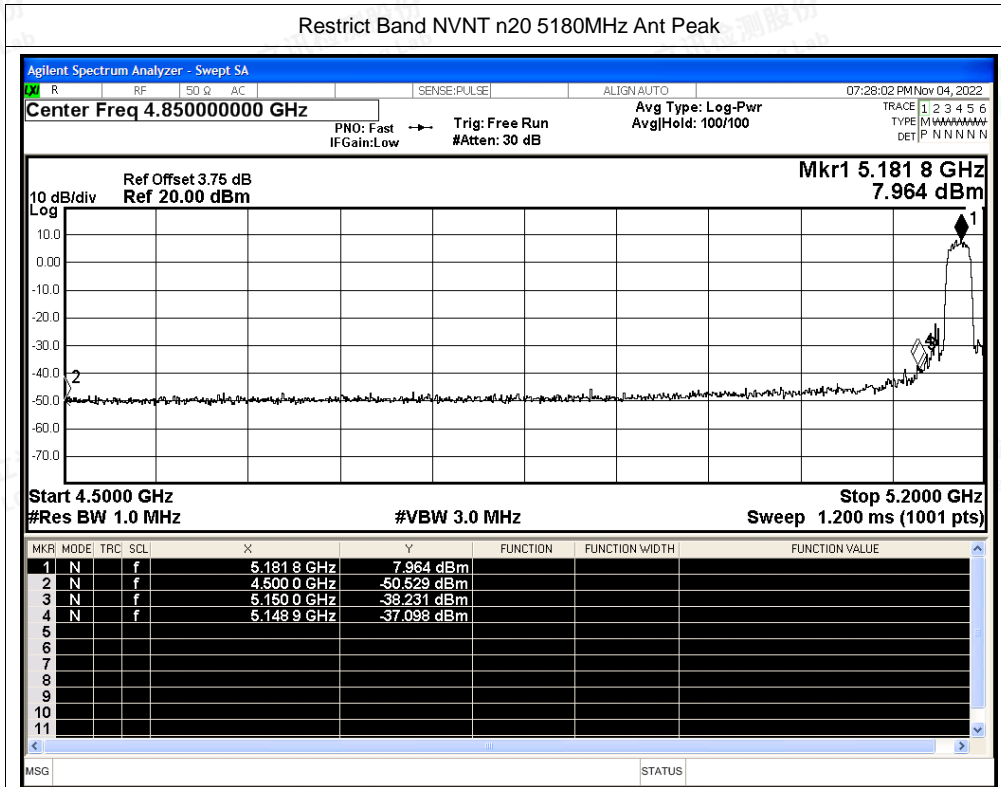


Restrict Band NVNT a 5240MHz Ant Peak



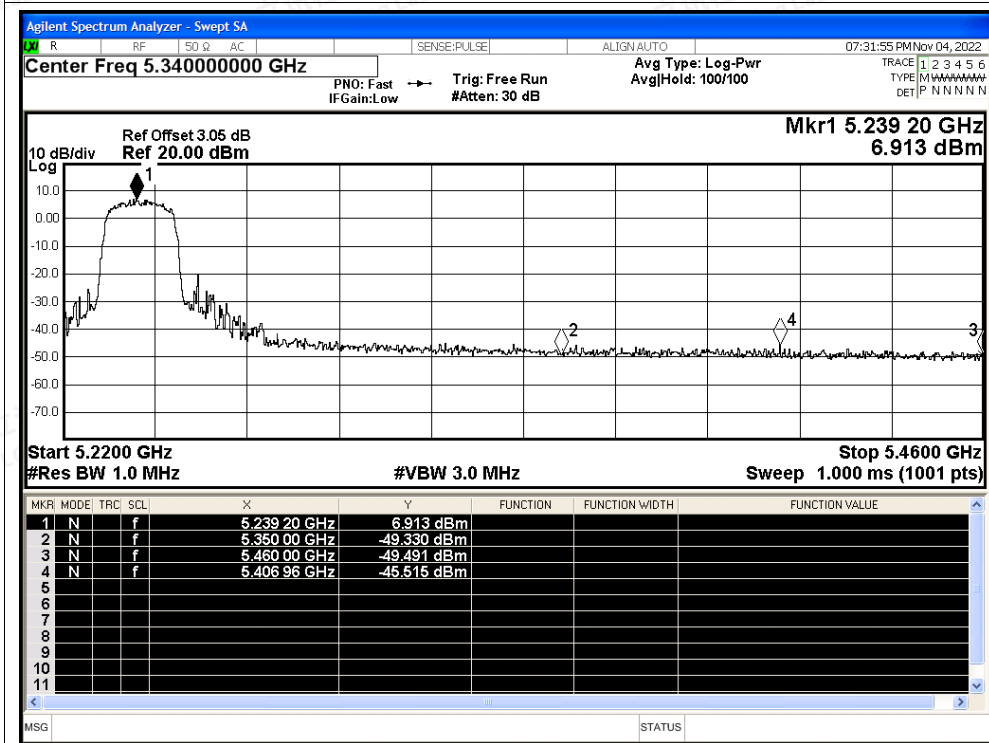
Restrict Band NVNT a 5240MHz Ant Average



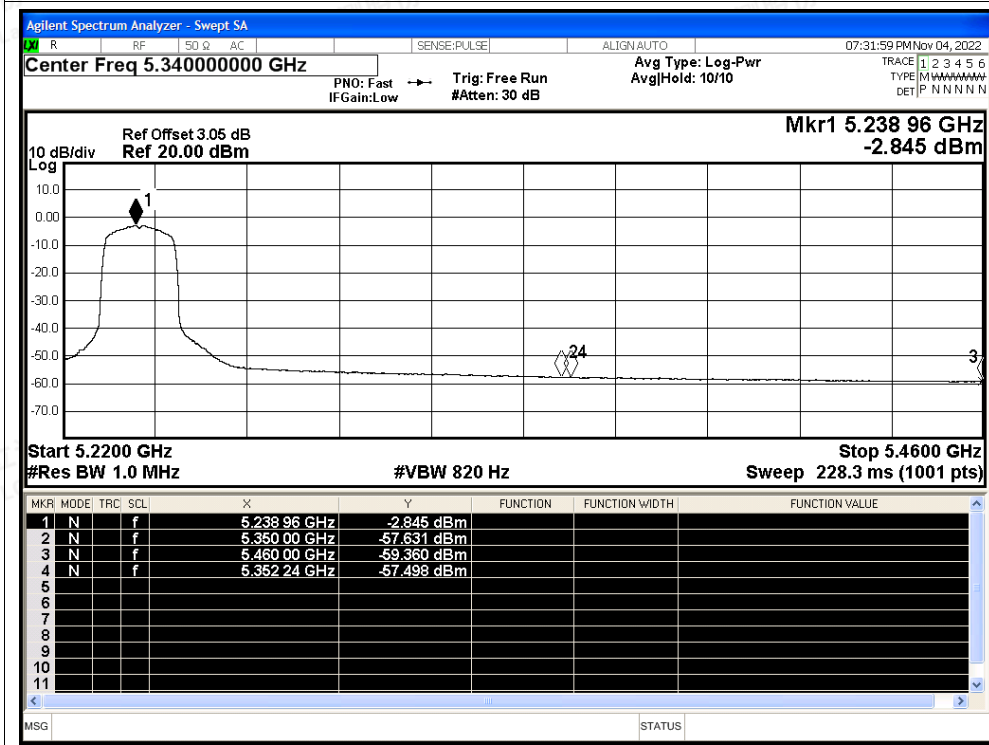


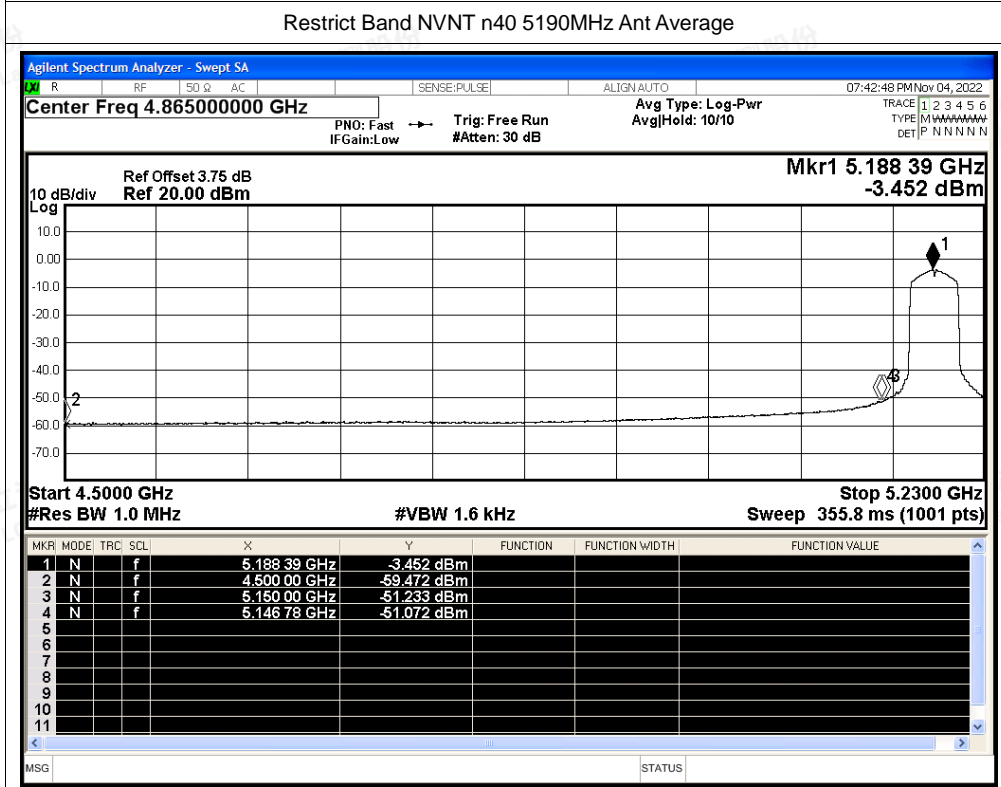
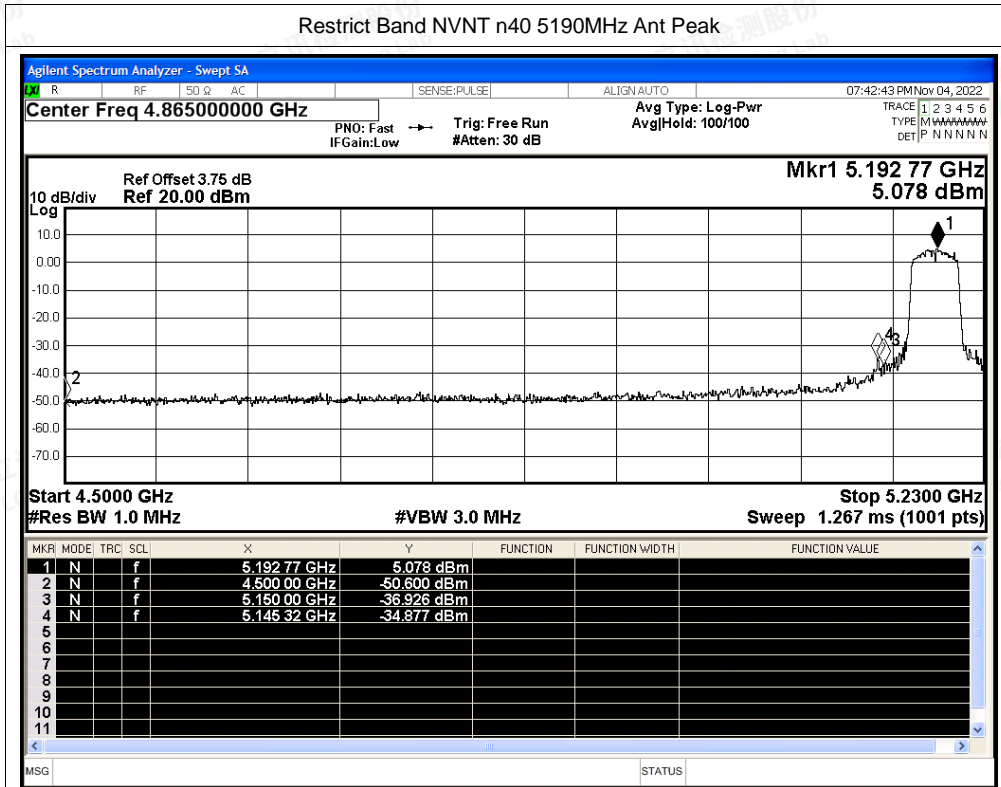


Restrict Band NVNT n20 5240MHz Ant Peak



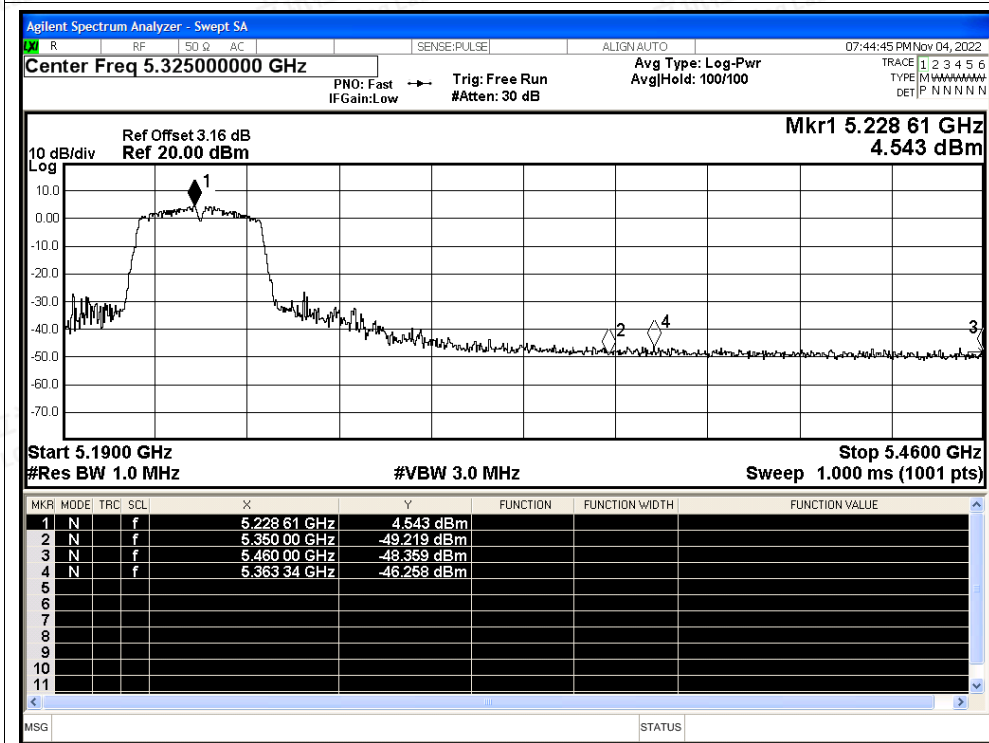
Restrict Band NVNT n20 5240MHz Ant Average



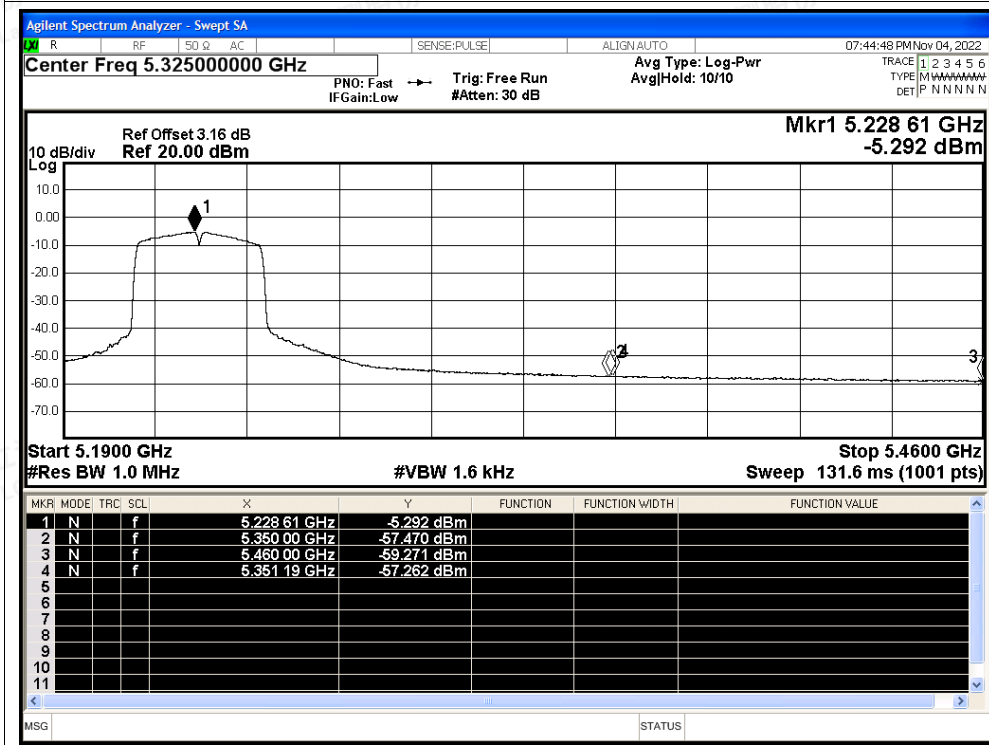




Restrict Band NVNT n40 5230MHz Ant Peak

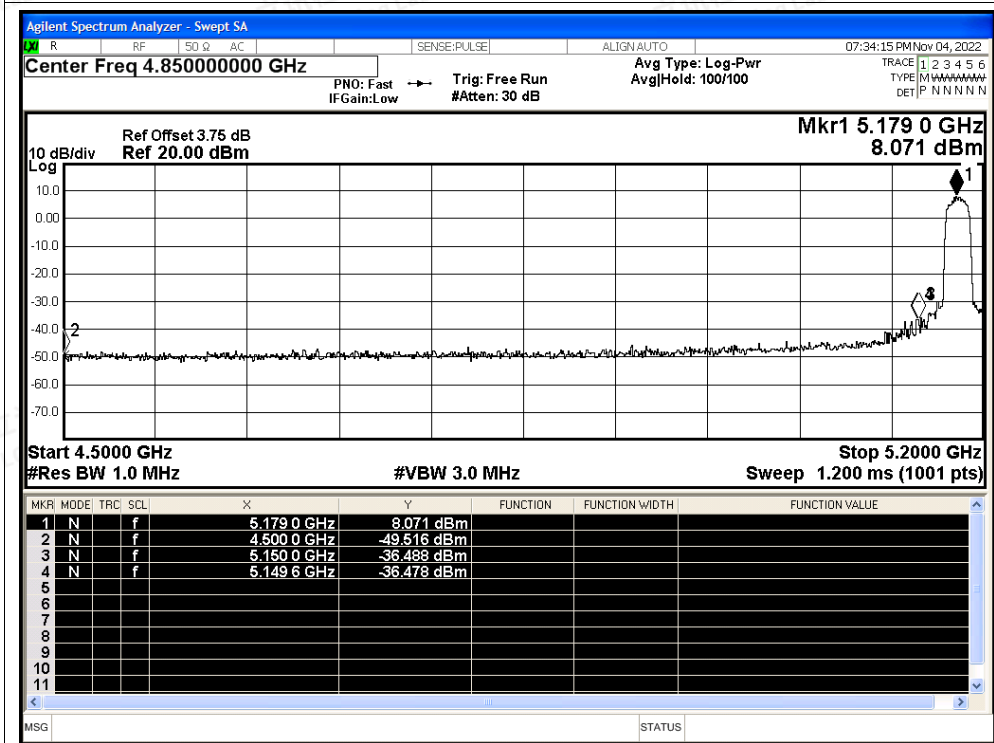


Restrict Band NVNT n40 5230MHz Ant Average

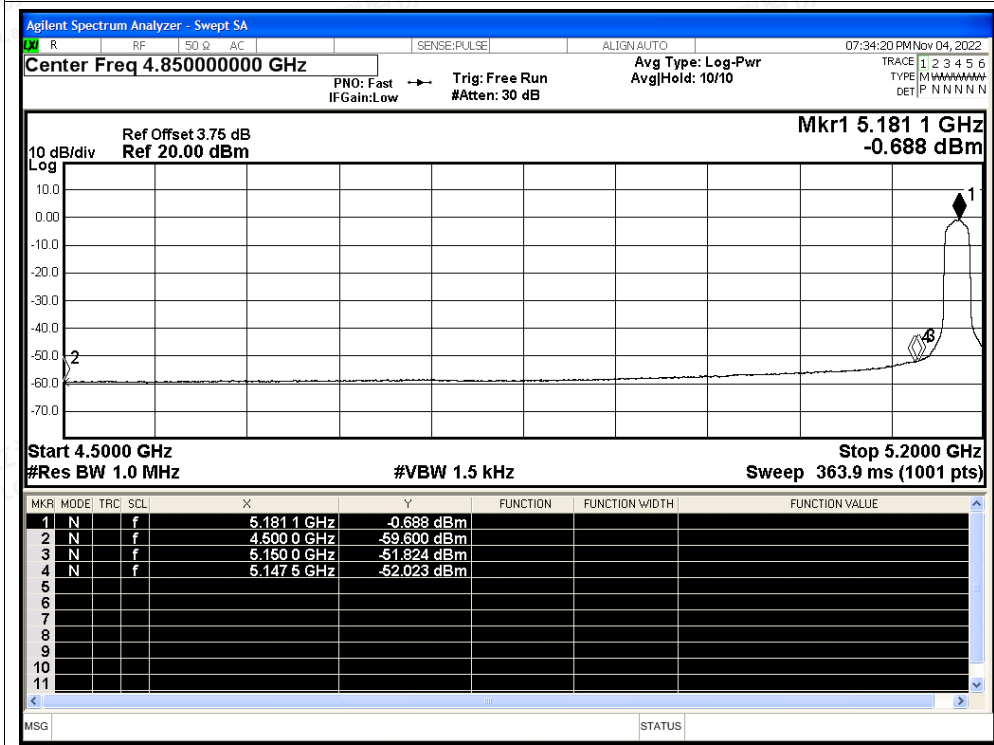




Restrict Band NVNT ac20 5180MHz Ant Peak

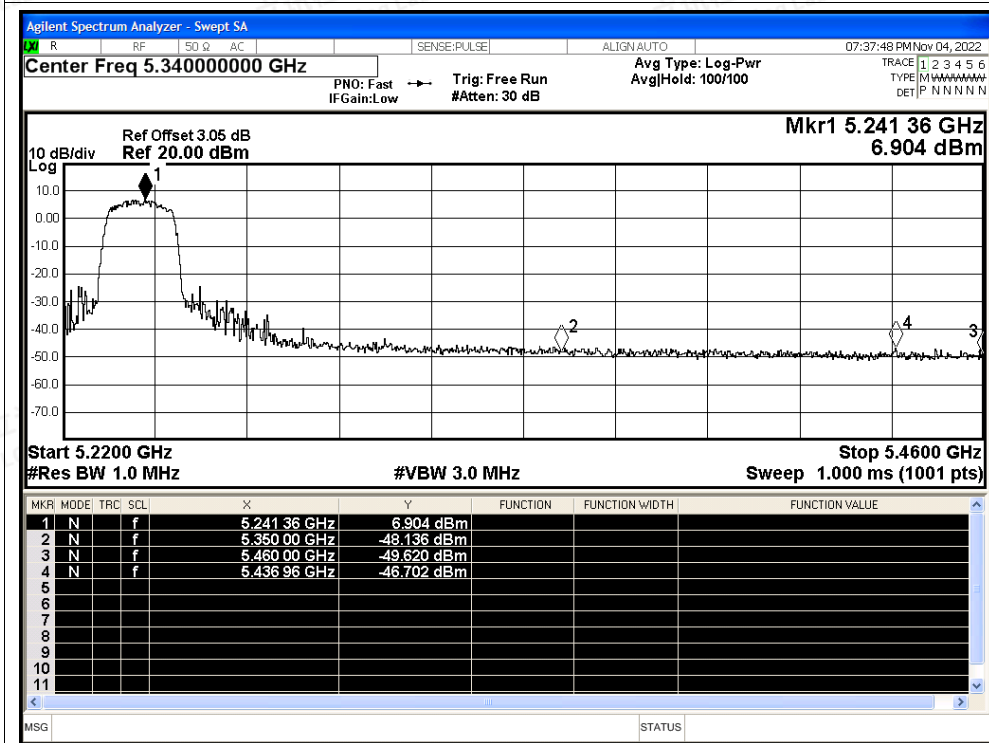


Restrict Band NVNT ac20 5180MHz Ant Average

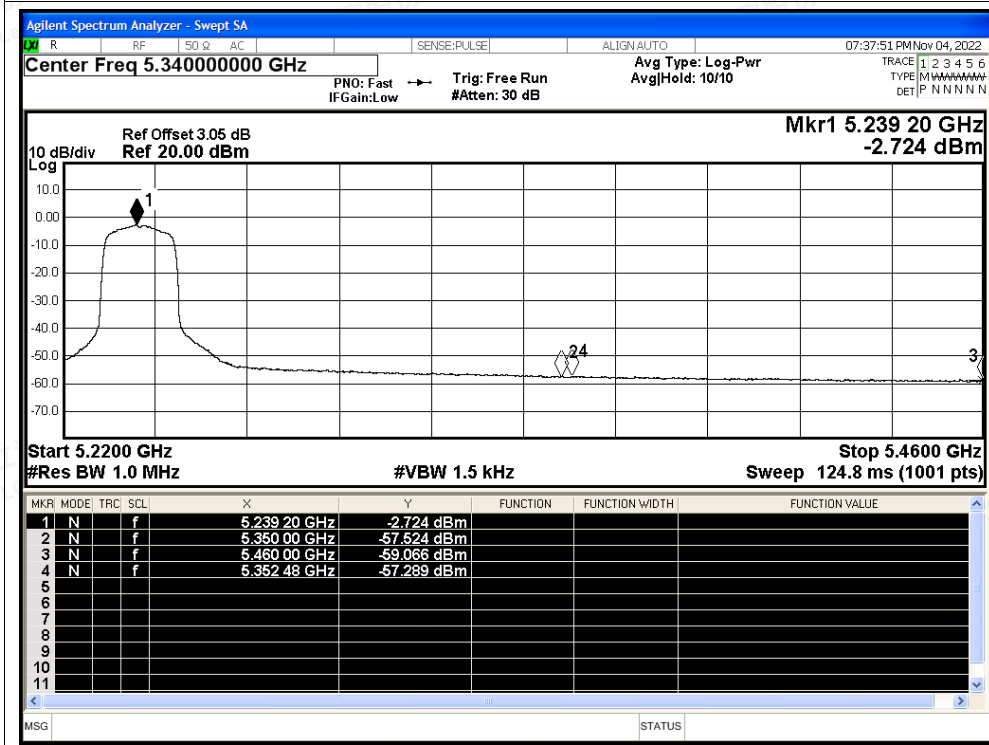




Restrict Band NVNT ac20 5240MHz Ant Peak

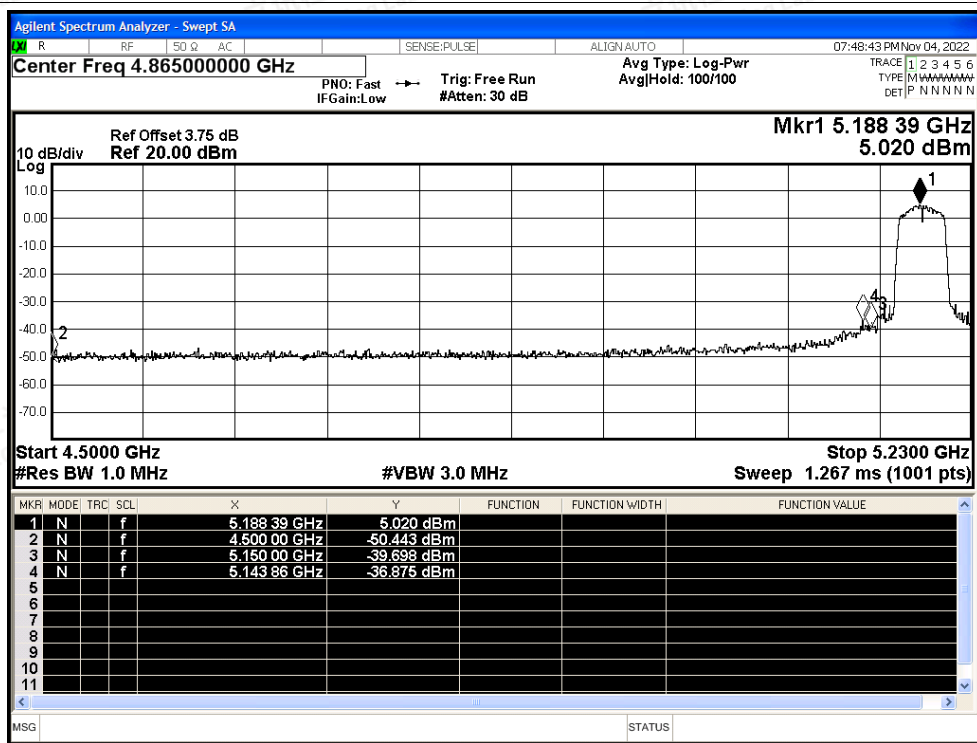


Restrict Band NVNT ac20 5240MHz Ant Average

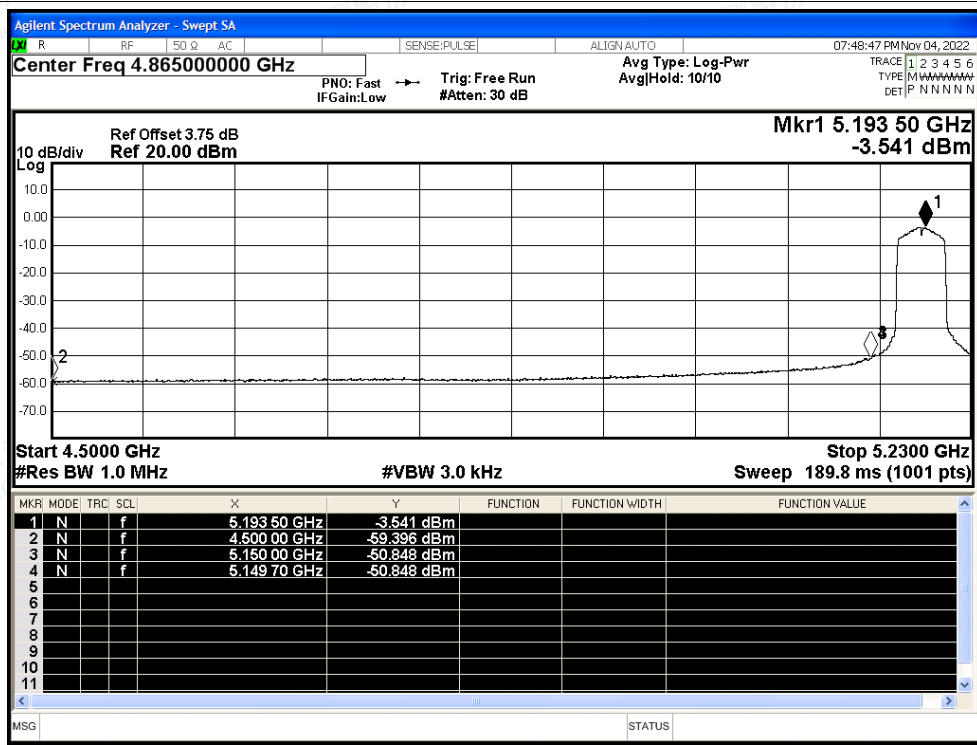




Restrict Band NVNT ac40 5190MHz Ant Peak

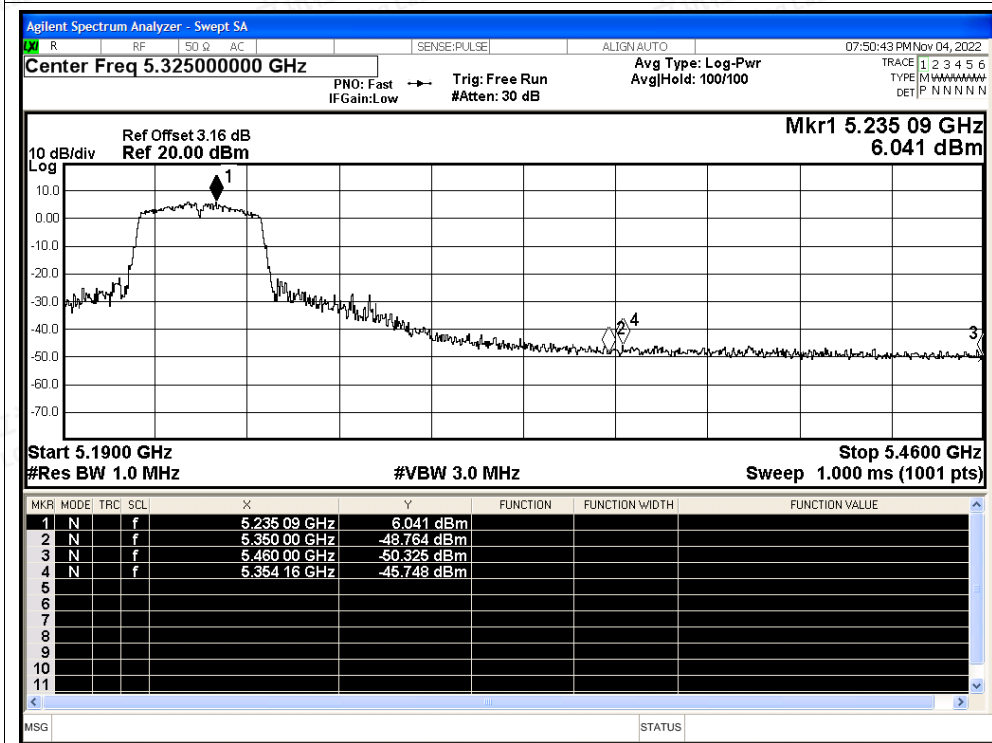


Restrict Band NVNT ac40 5190MHz Ant Average

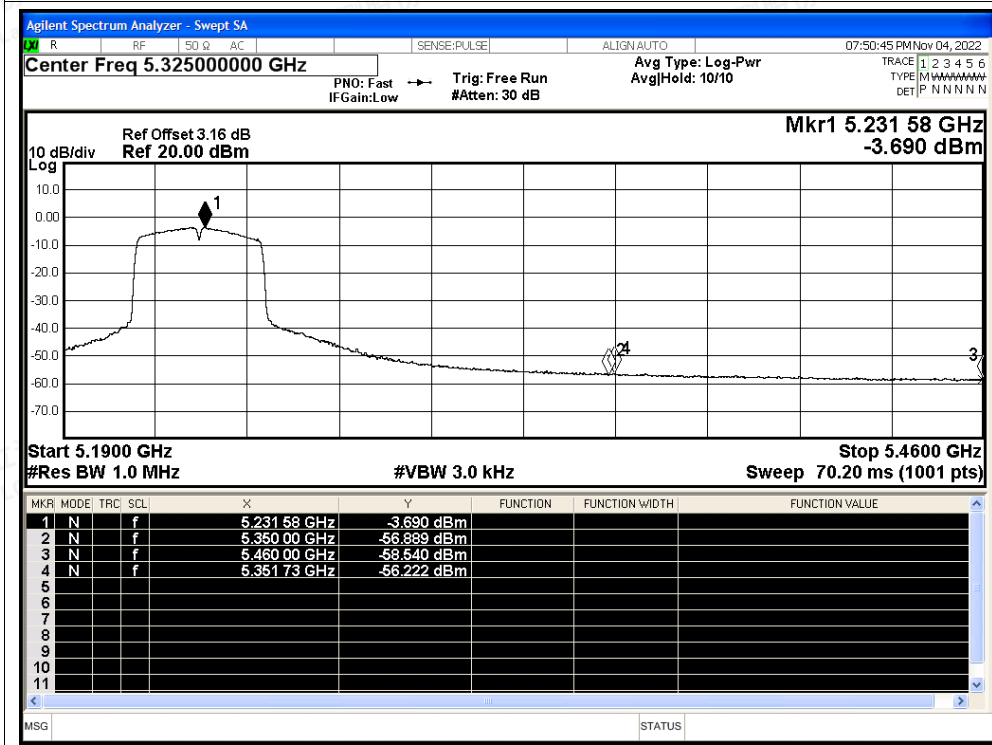




Restrict Band NVNT ac40 5230MHz Ant Peak

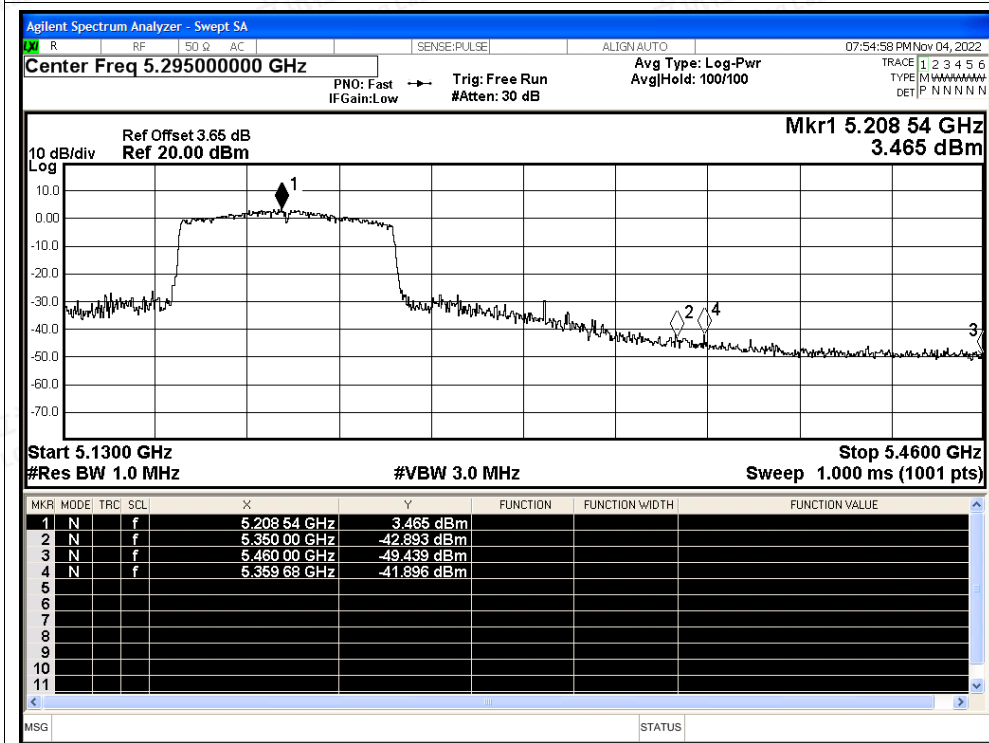


Restrict Band NVNT ac40 5230MHz Ant Average

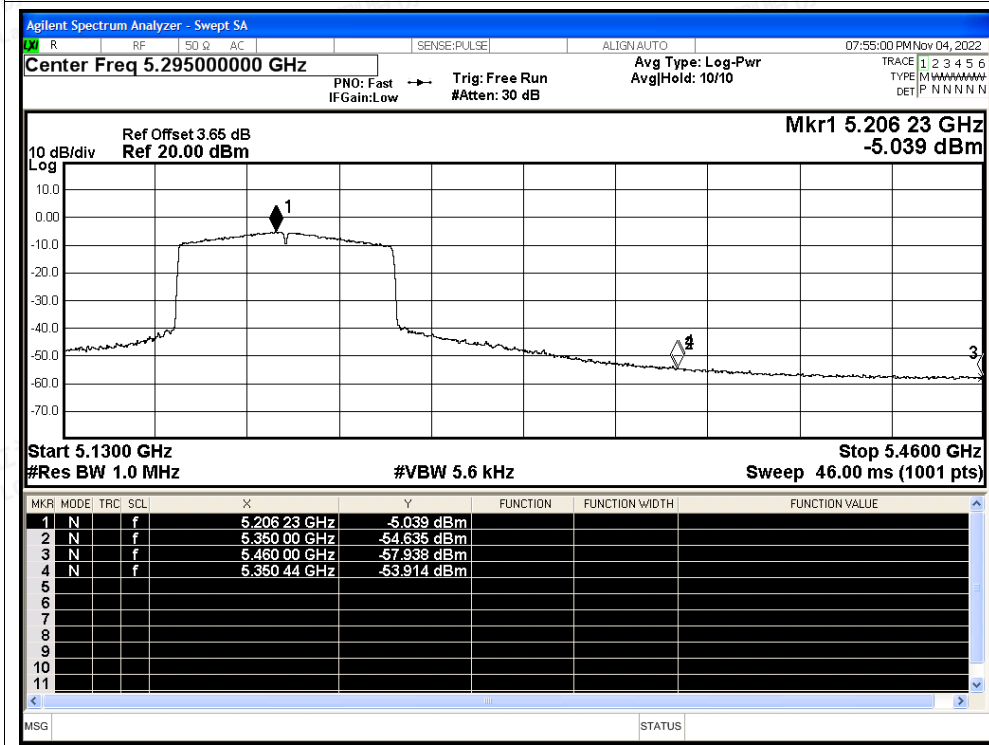




Restrict Band NVNT ac80 5210MHz Ant Peak

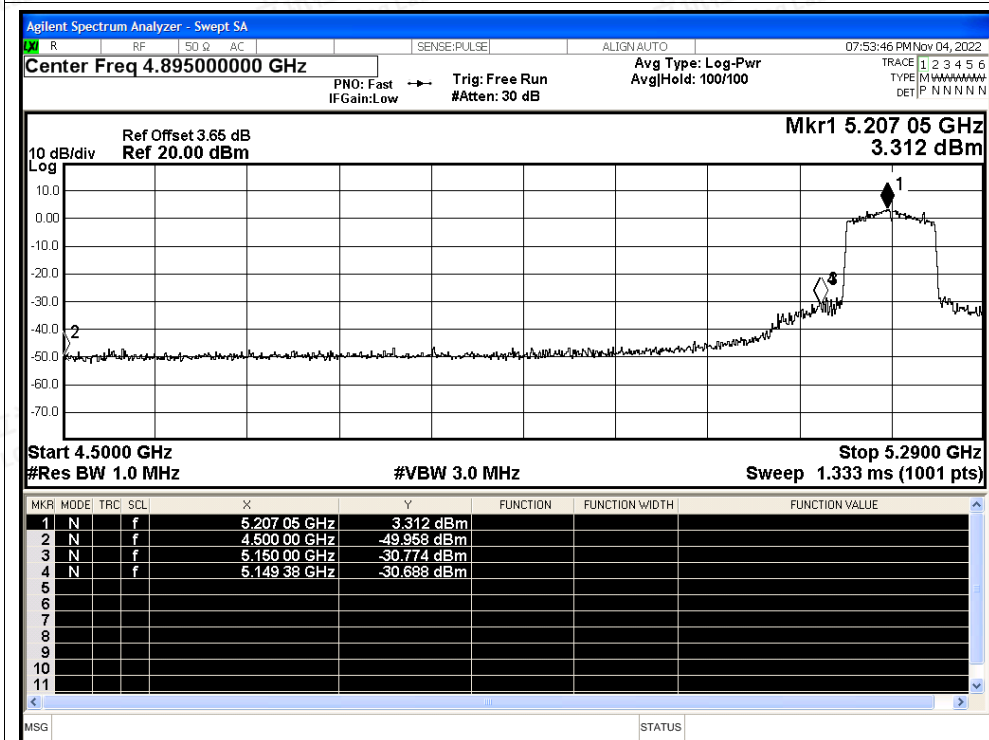


Restrict Band NVNT ac80 5210MHz Ant Average

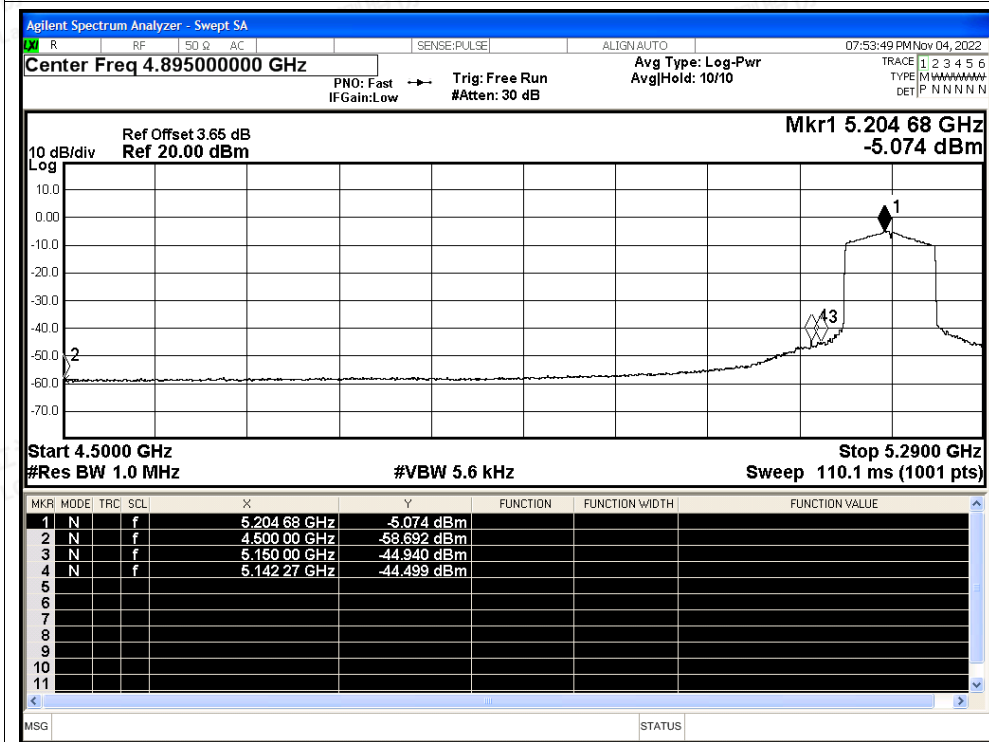




Restrict Band NVNT ac80 5210MHz Ant Peak



Restrict Band NVNT ac80 5210MHz Ant Average





B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant	5180	0	0	25	Pass
NVNT	a	5200	Ant	5199.96	-40000	-7.69	25	Pass
NVNT	a	5240	Ant	5240	0	0	25	Pass
NVNT	n20	5180	Ant	5180.02	20000	3.86	25	Pass
NVNT	n20	5200	Ant	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant	5230	0	0	25	Pass
NVNT	ac20	5180	Ant	5179.96	-40000	-7.72	25	Pass
NVNT	ac20	5200	Ant	5200	0	0	25	Pass
NVNT	ac20	5240	Ant	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant	5189.92	-80000	-15.41	25	Pass
NVNT	ac40	5230	Ant	5230	0	0	25	Pass
NVNT	ac80	5210	Ant	5210	0	0	25	Pass

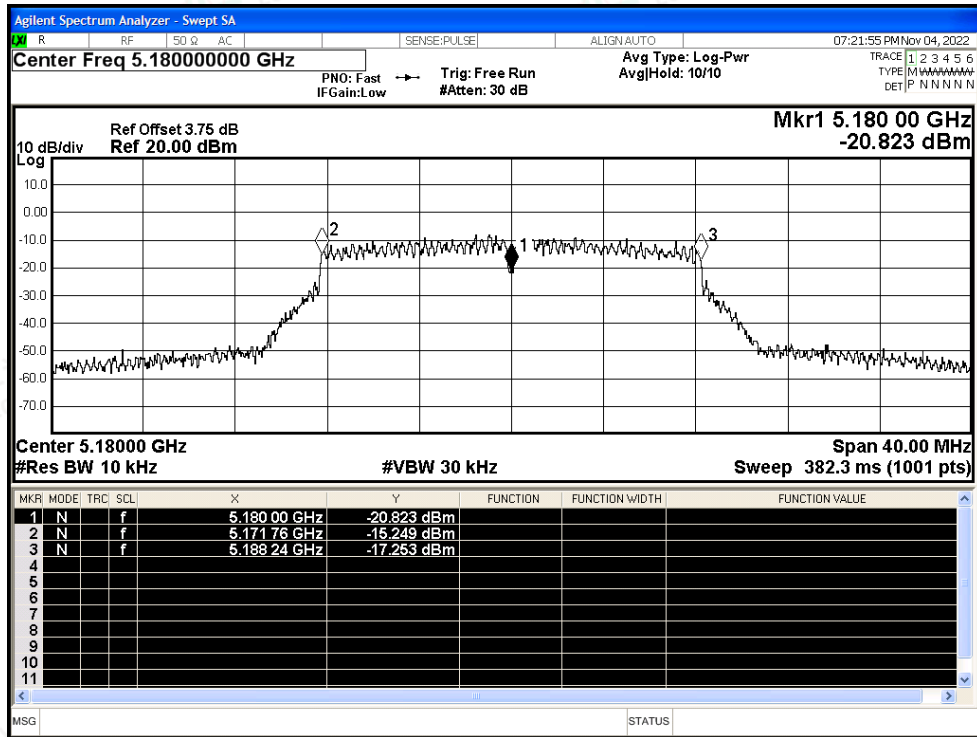


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 Scan code to check authenticity

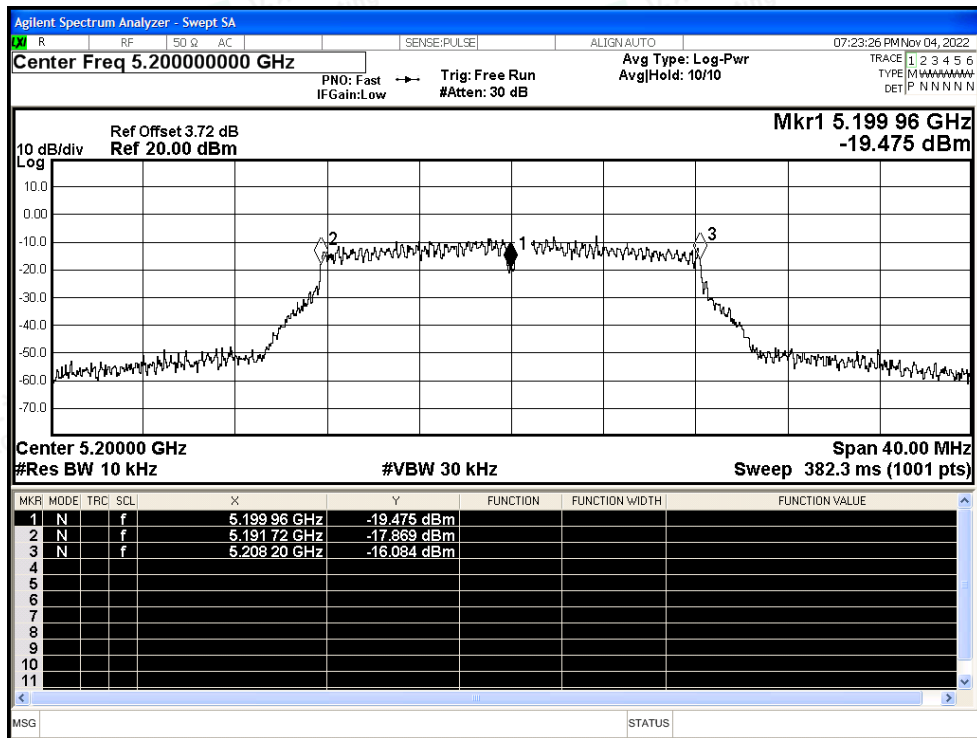


Test Graphs

Freq. Stability NVNT a 5180MHz Ant

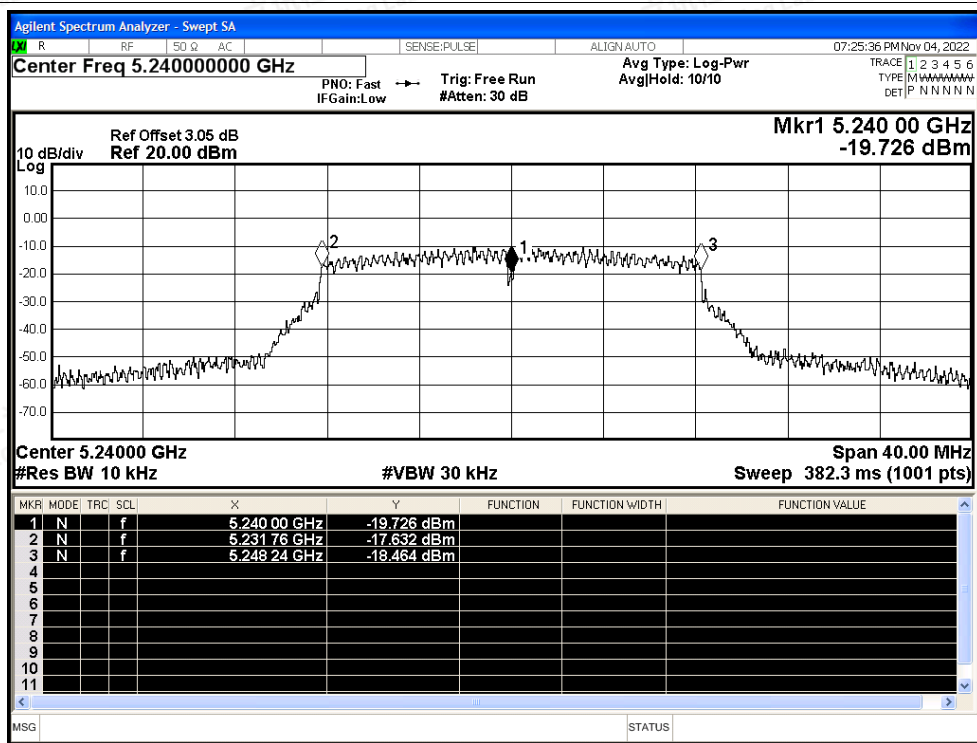


Freq. Stability NVNT a 5200MHz Ant

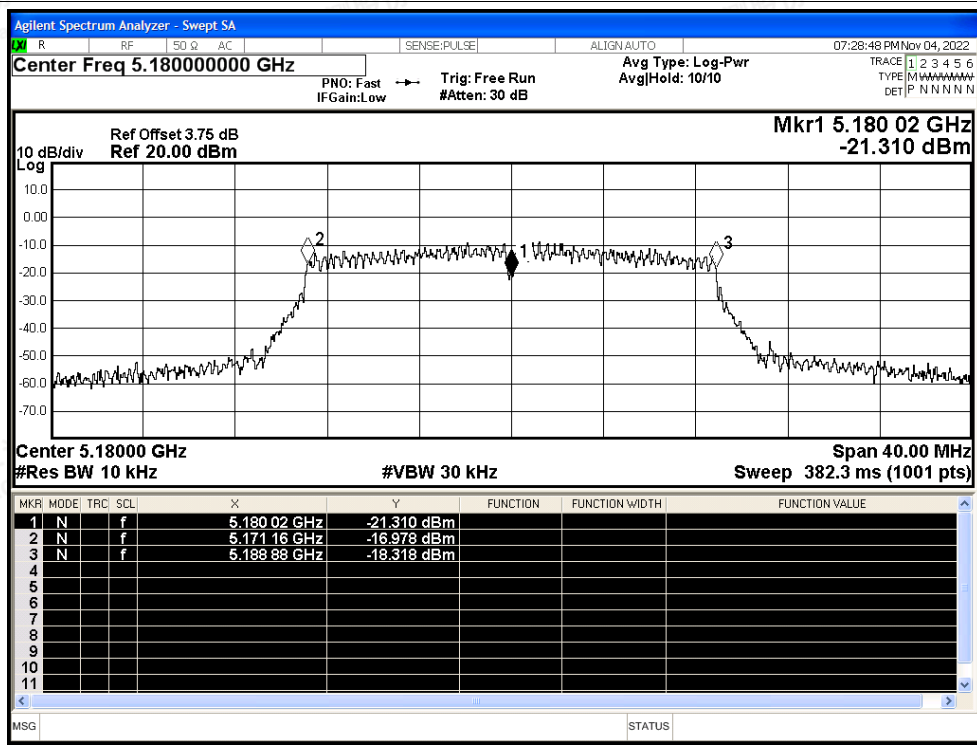




Freq. Stability NVNT a 5240MHz Ant

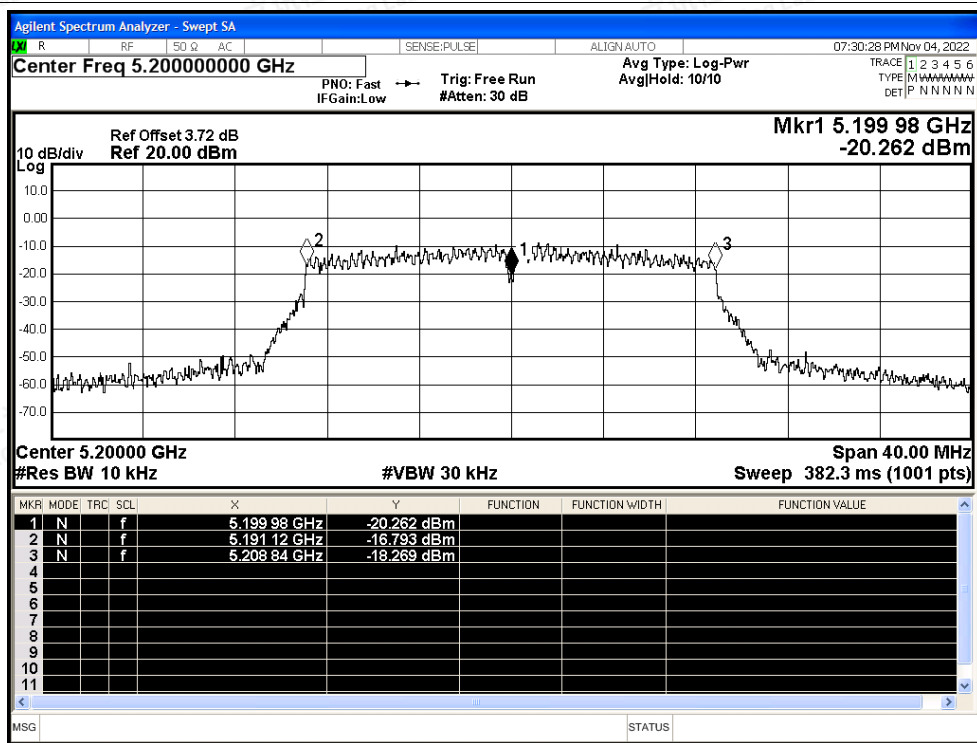


Freq. Stability NVNT n20 5180MHz Ant

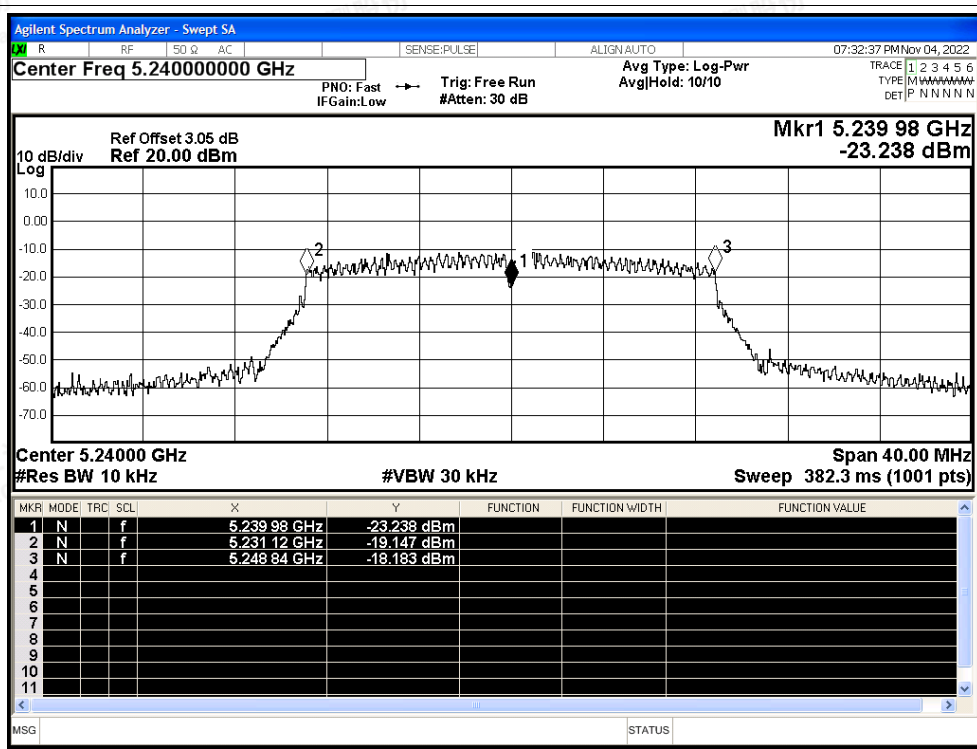




Freq. Stability NVNT n20 5200MHz Ant

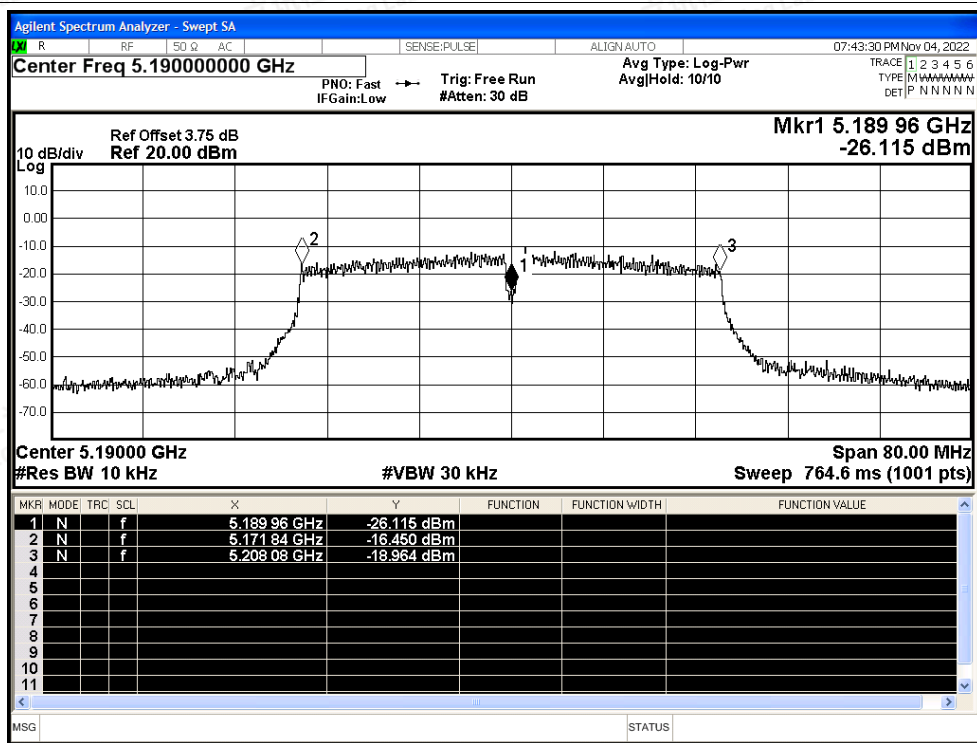


Freq. Stability NVNT n20 5240MHz Ant

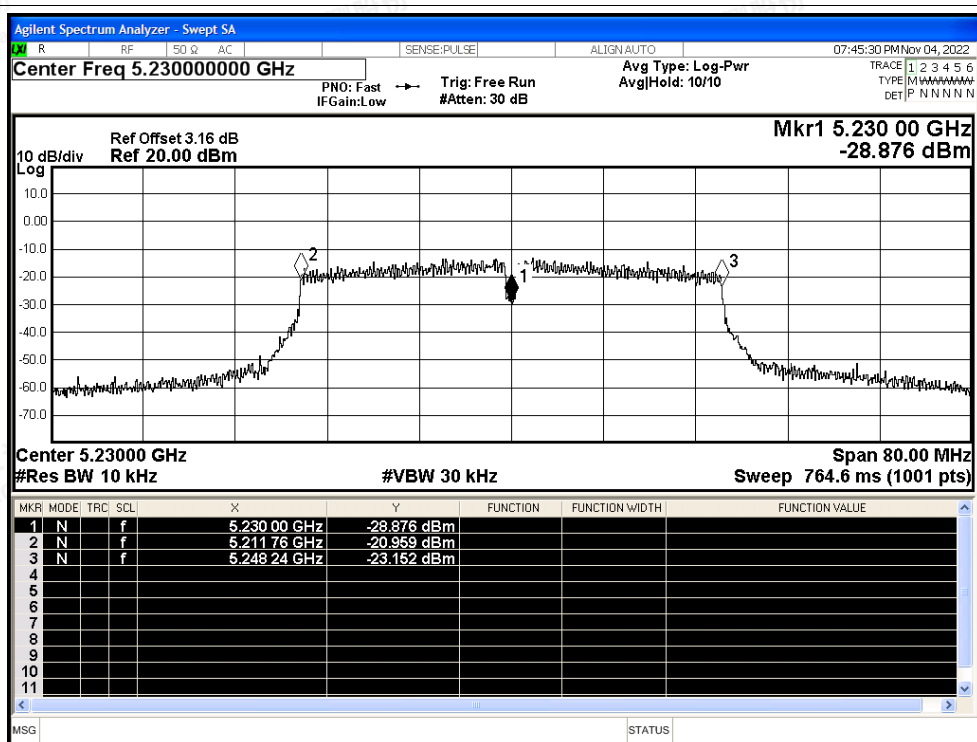




Freq. Stability NVNT n40 5190MHz Ant

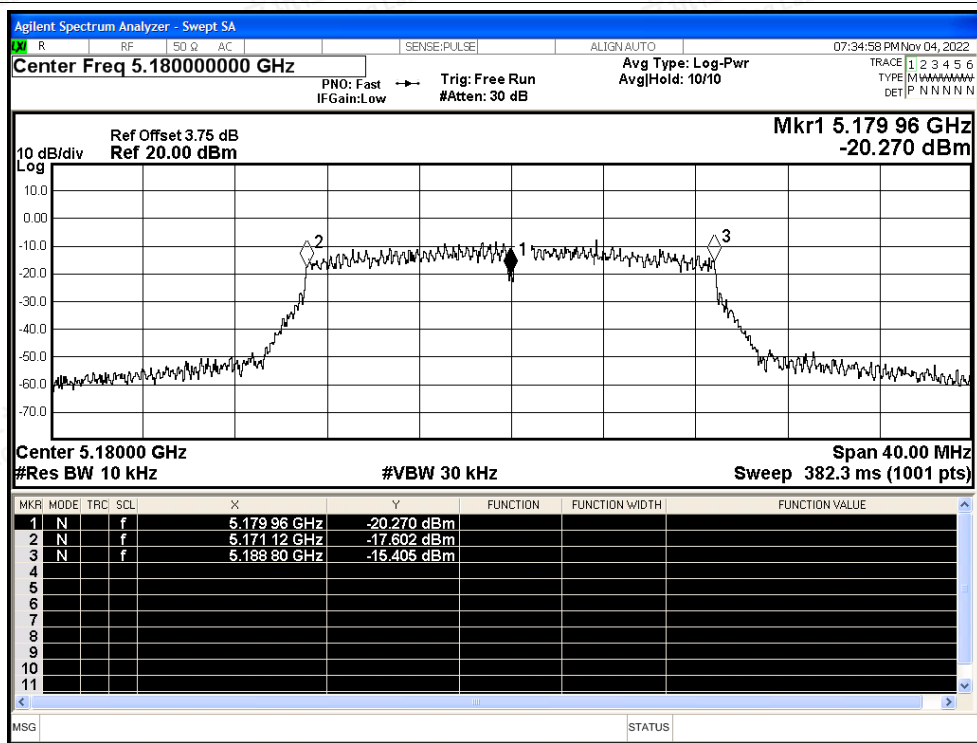


Freq. Stability NVNT n40 5230MHz Ant

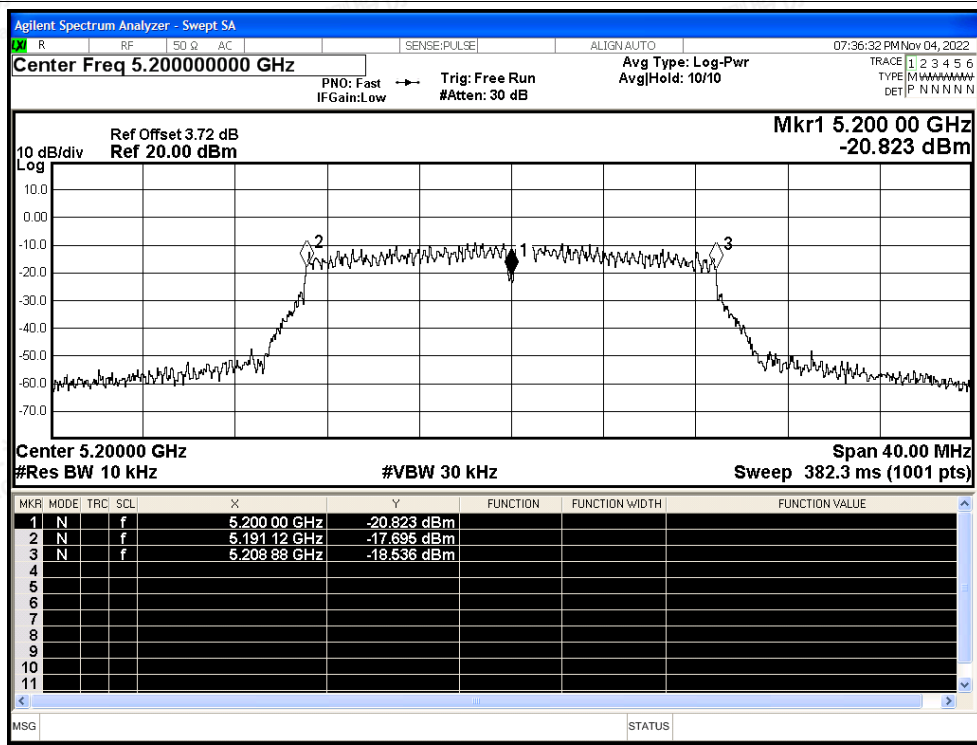




Freq. Stability NVNT ac20 5180MHz Ant

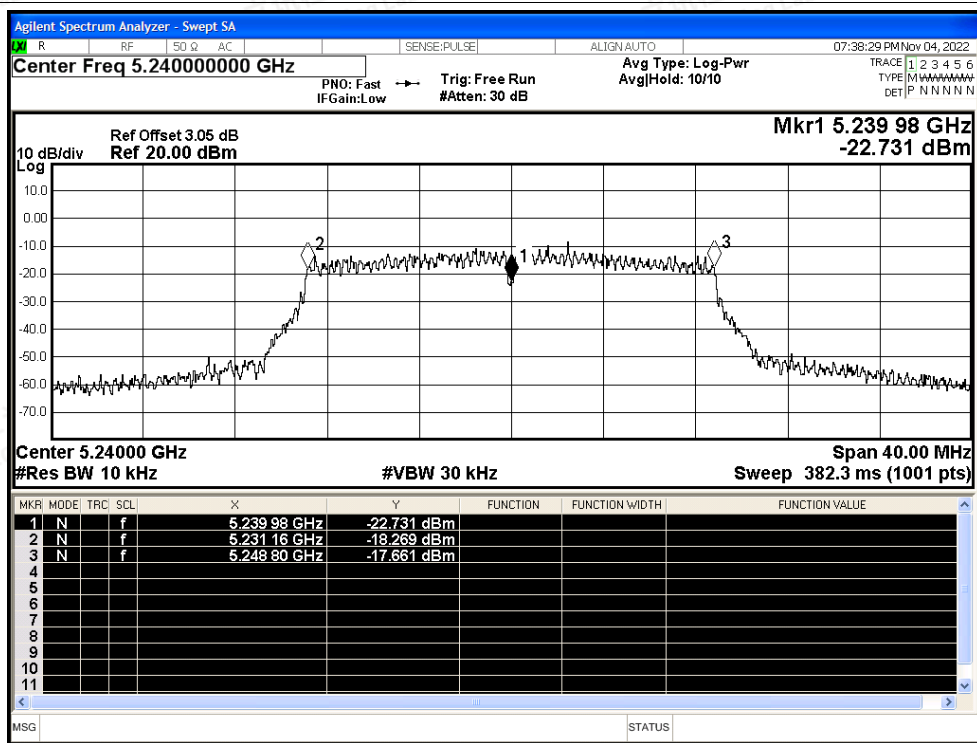


Freq. Stability NVNT ac20 5200MHz Ant

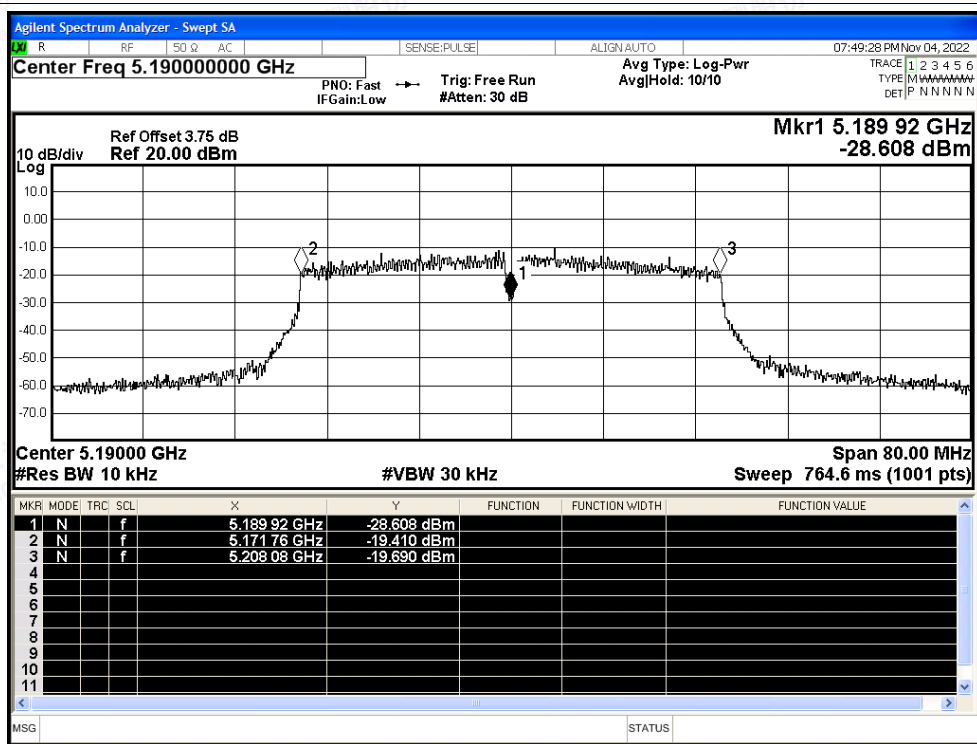




Freq. Stability NVNT ac20 5240MHz Ant

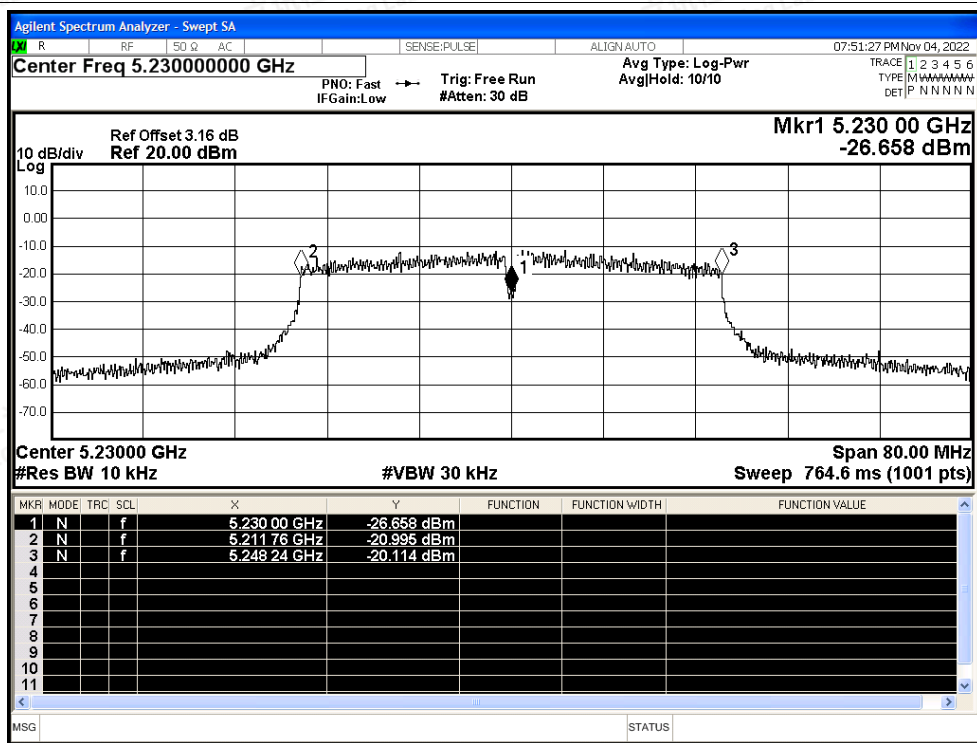


Freq. Stability NVNT ac40 5190MHz Ant

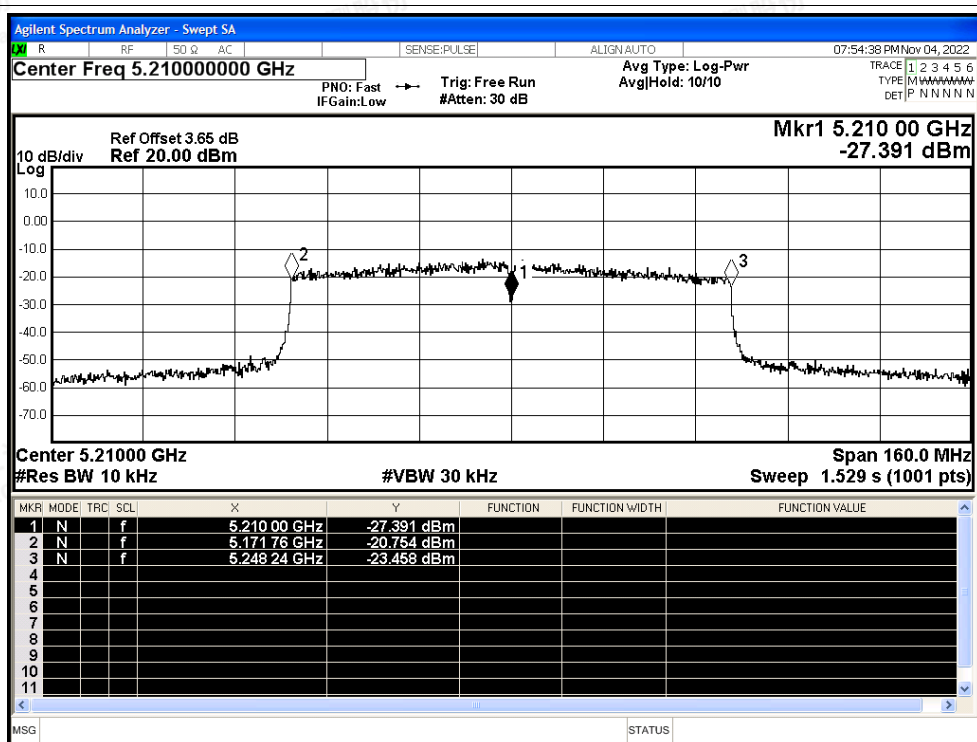




Freq. Stability NVNT ac40 5230MHz Ant



Freq. Stability NVNT ac80 5210MHz Ant





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant	100	0	0.01
NVNT	a	5200	Ant	100	0	0.01
NVNT	a	5240	Ant	100	0	0.01
NVNT	n20	5180	Ant	100	0	0.01
NVNT	n20	5200	Ant	100	0	0.01
NVNT	n20	5240	Ant	100	0	0.01
NVNT	n40	5190	Ant	100	0	0.01
NVNT	n40	5230	Ant	100	0	0.01
NVNT	ac20	5180	Ant	100	0	0.01
NVNT	ac20	5200	Ant	100	0	0.01
NVNT	ac20	5240	Ant	100	0	0.01
NVNT	ac40	5190	Ant	100	0	0.01
NVNT	ac40	5230	Ant	100	0	0.01
NVNT	ac80	5210	Ant	100	0	0.01

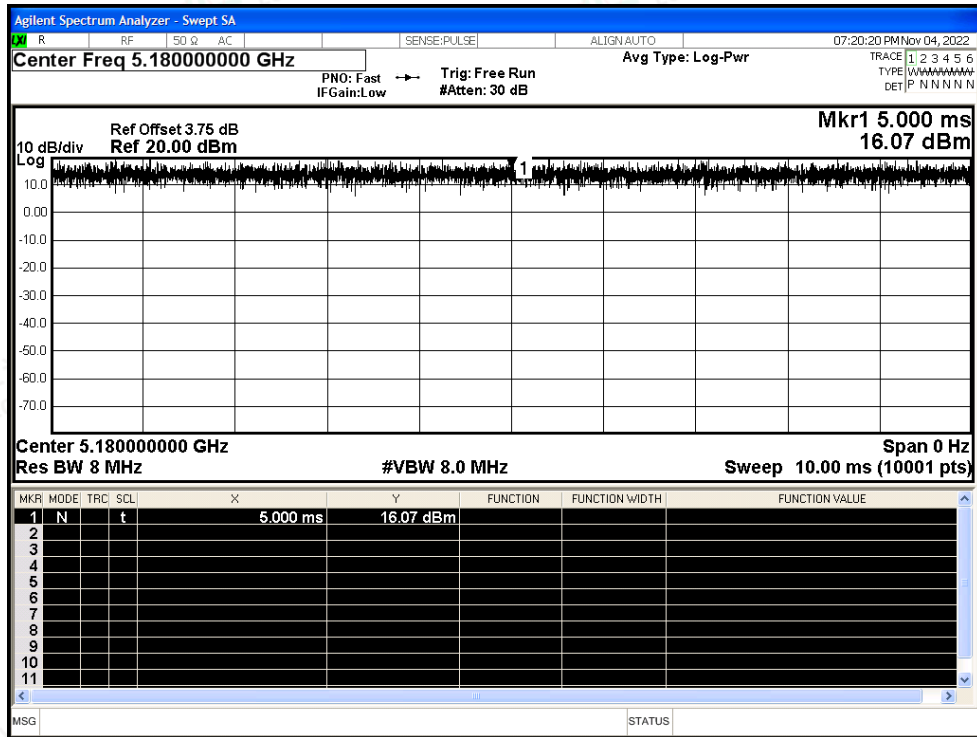


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Scan code to check authenticity

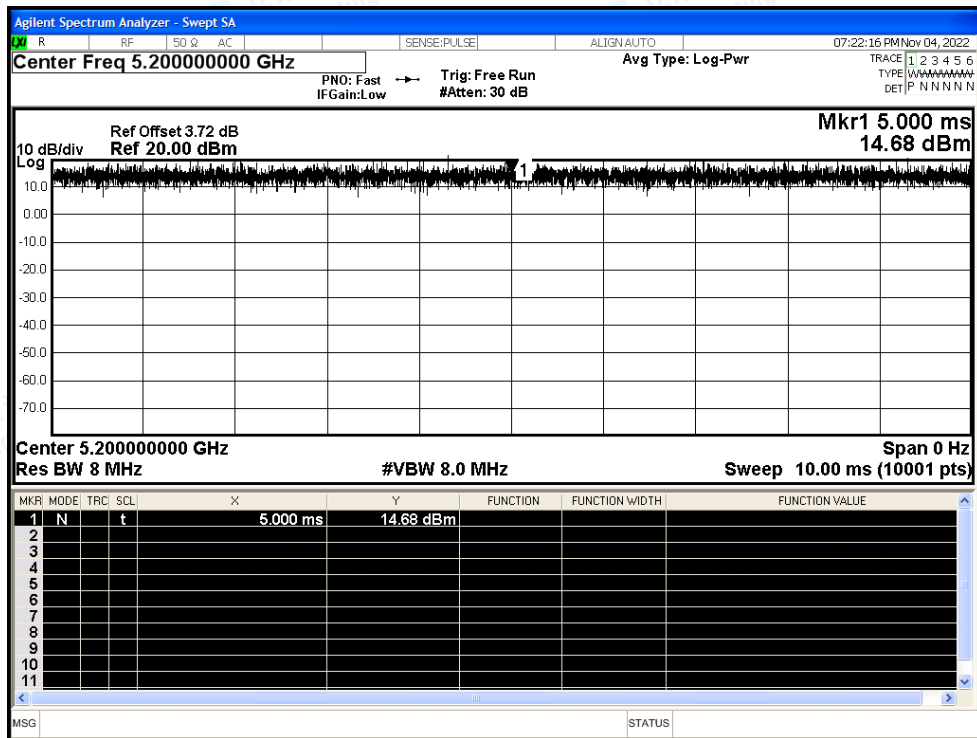


Test Graphs

Duty Cycle NVNT a 5180MHz Ant

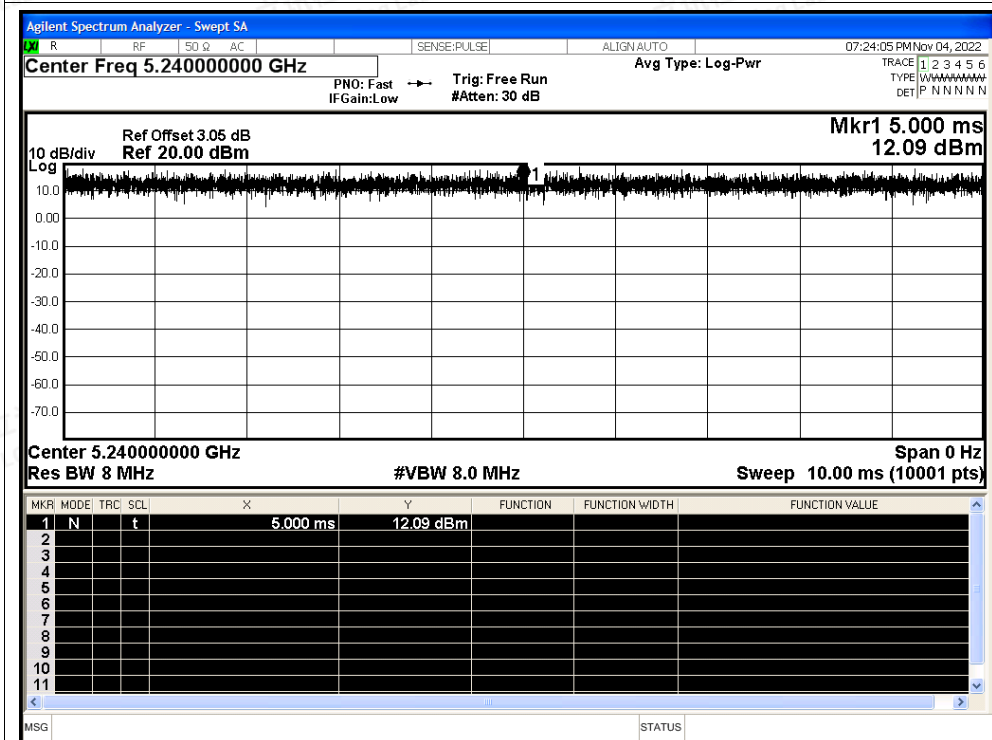


Duty Cycle NVNT a 5200MHz Ant

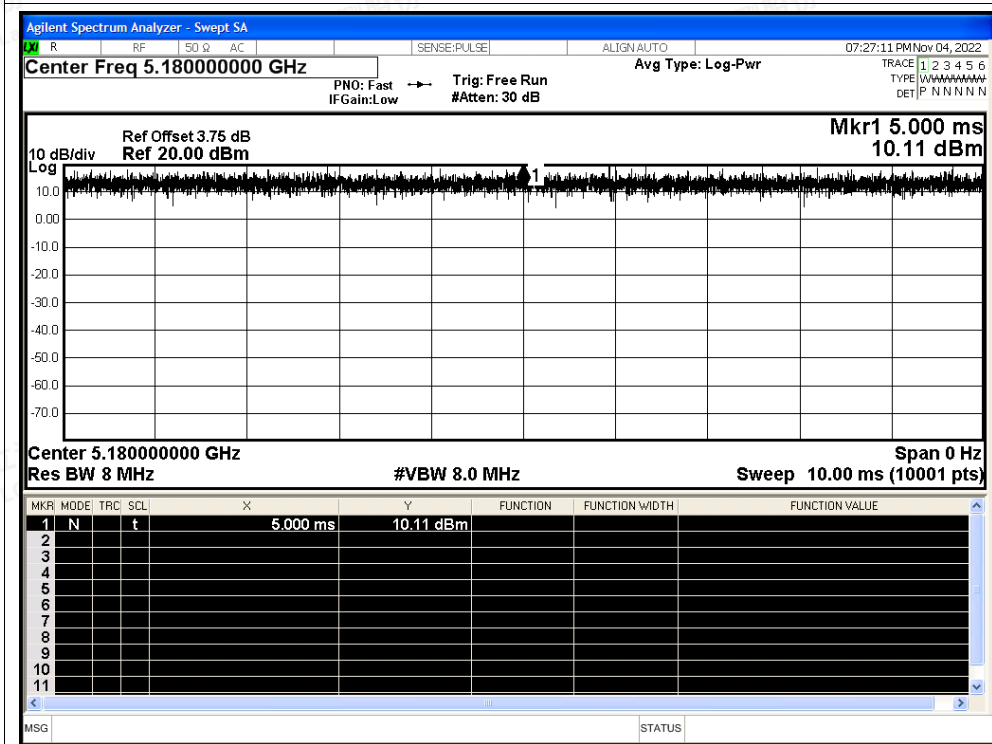




Duty Cycle NVNT a 5240MHz Ant

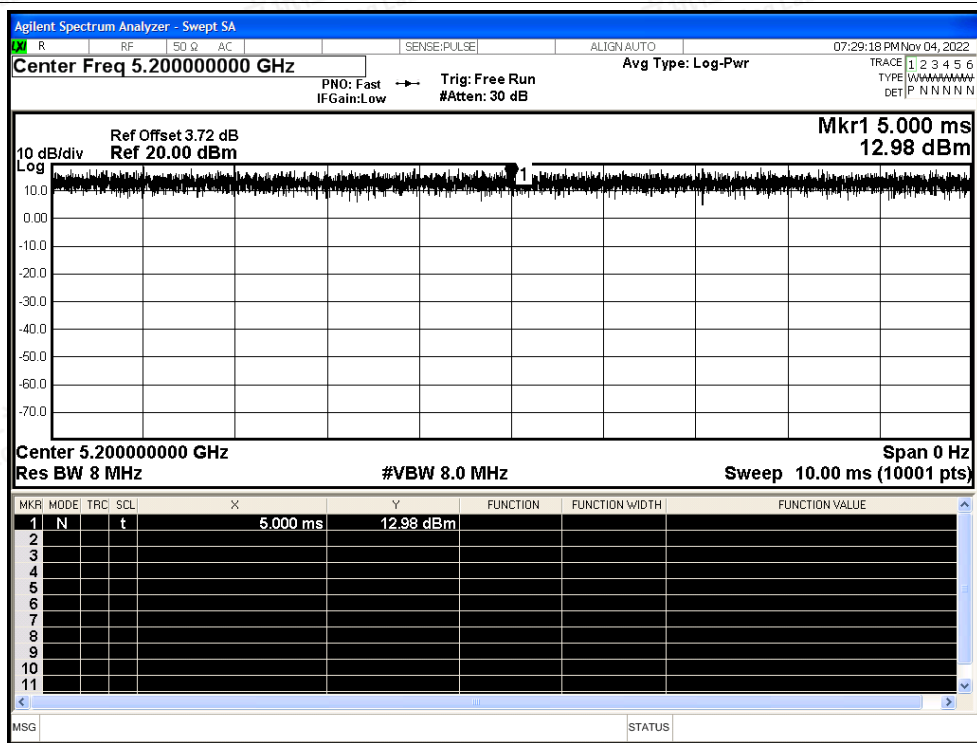


Duty Cycle NVNT n20 5180MHz Ant

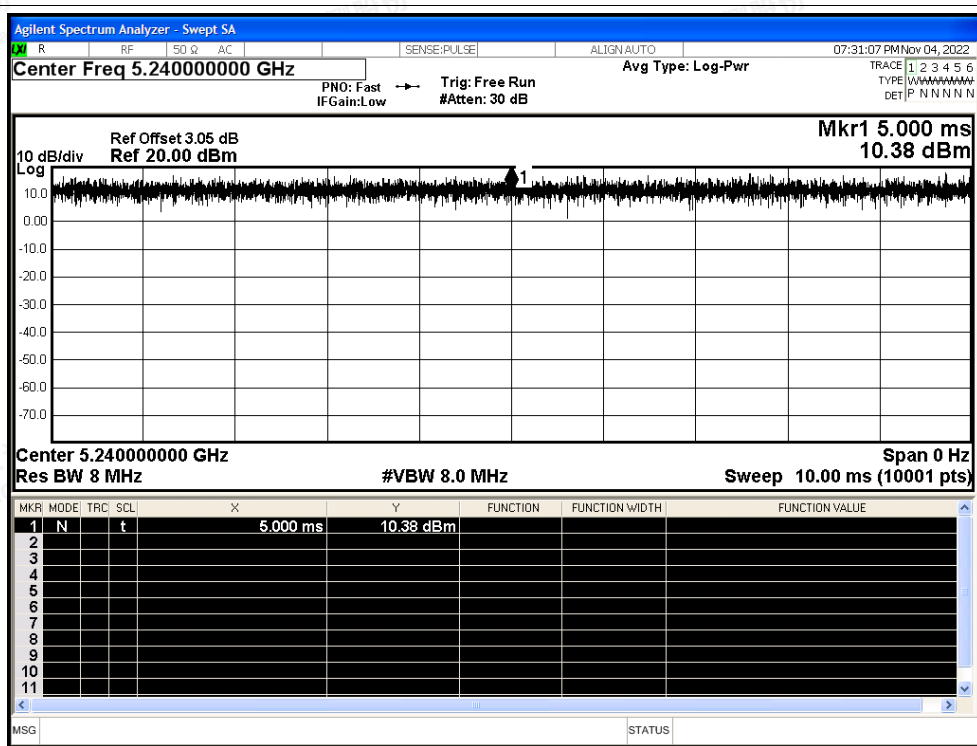




Duty Cycle NVNT n20 5200MHz Ant

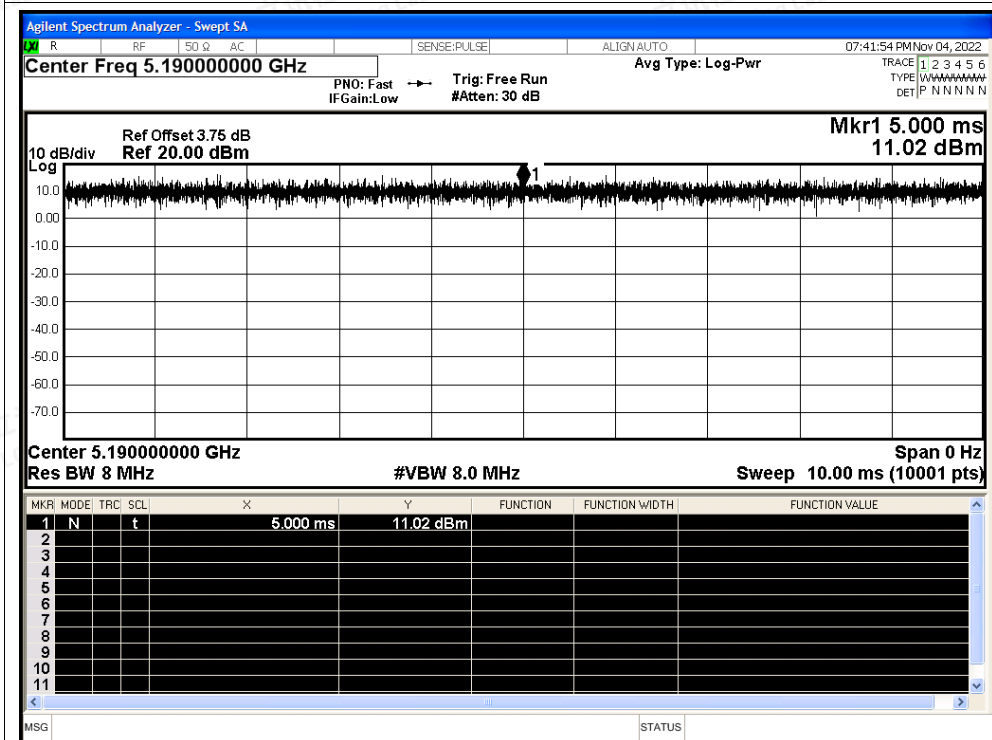


Duty Cycle NVNT n20 5240MHz Ant

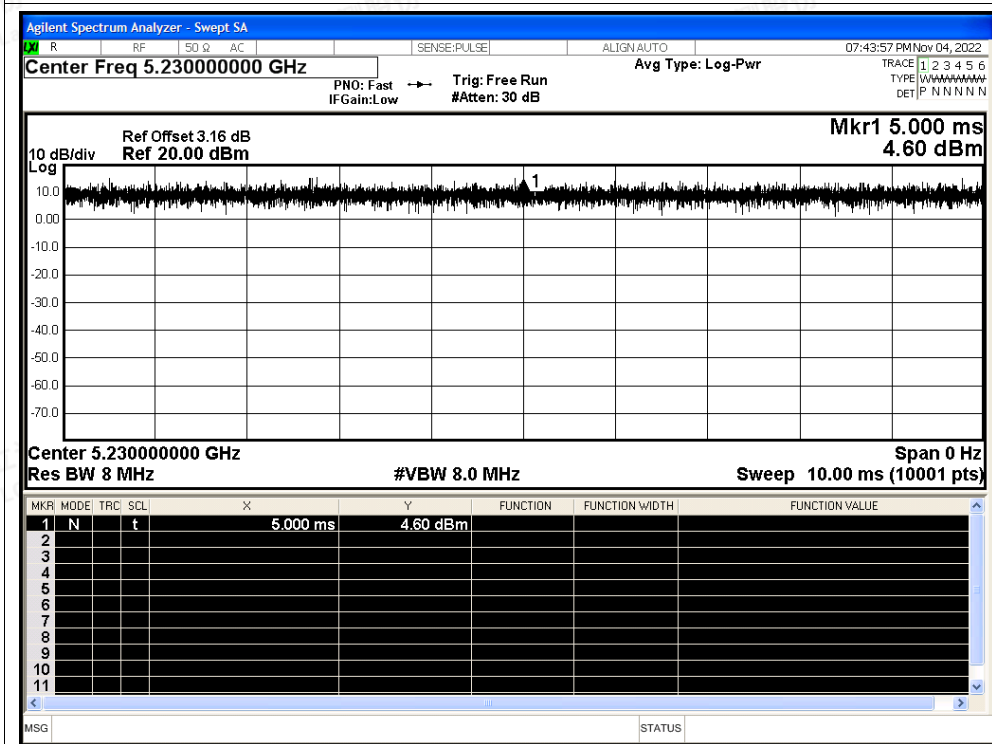




Duty Cycle NVNT n40 5190MHz Ant

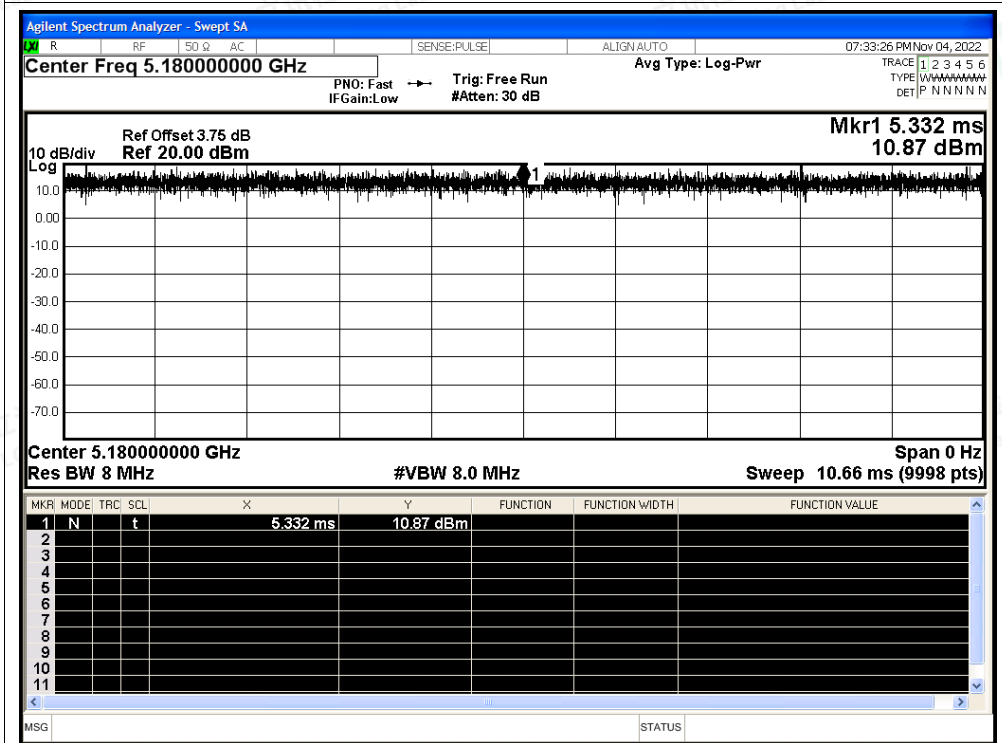


Duty Cycle NVNT n40 5230MHz Ant

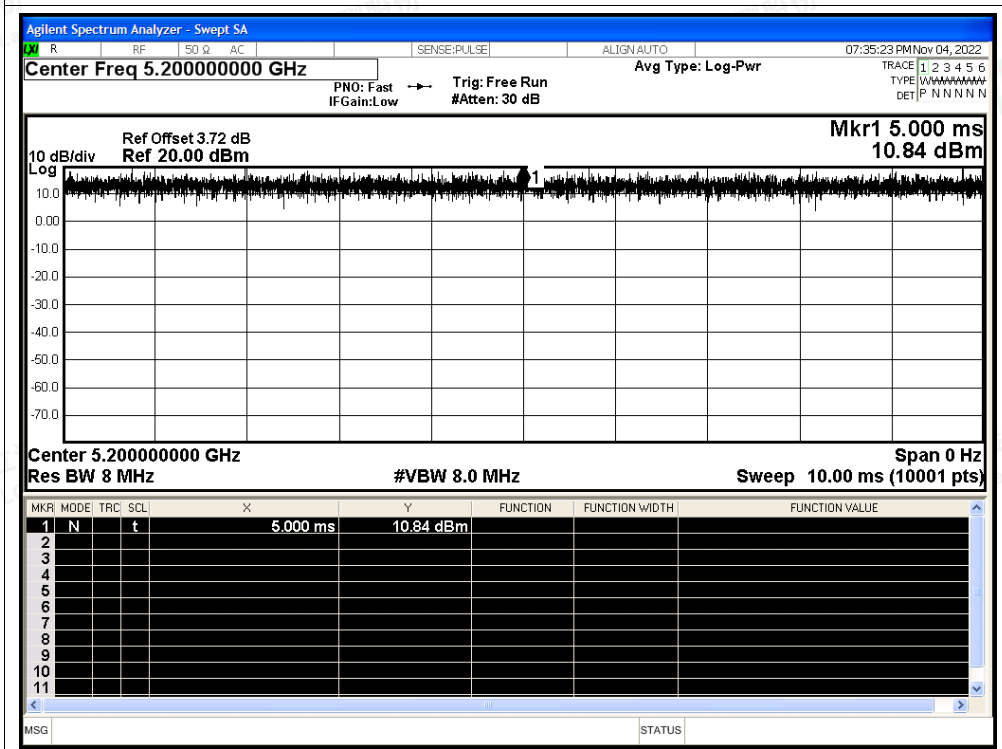




Duty Cycle NVNT ac20 5180MHz Ant

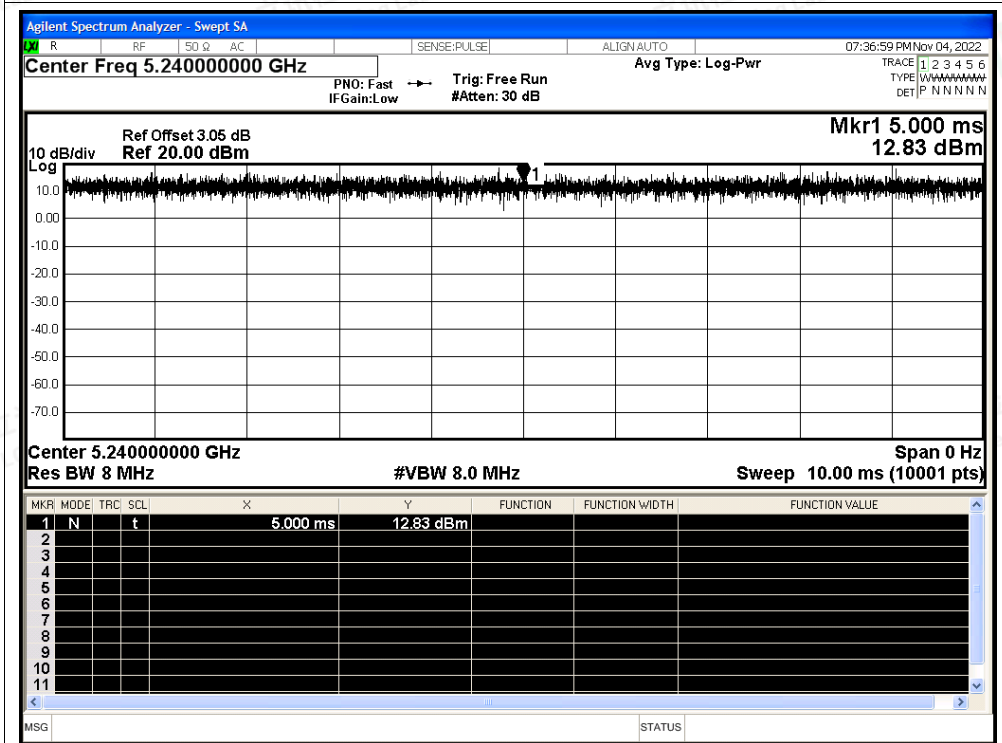


Duty Cycle NVNT ac20 5200MHz Ant

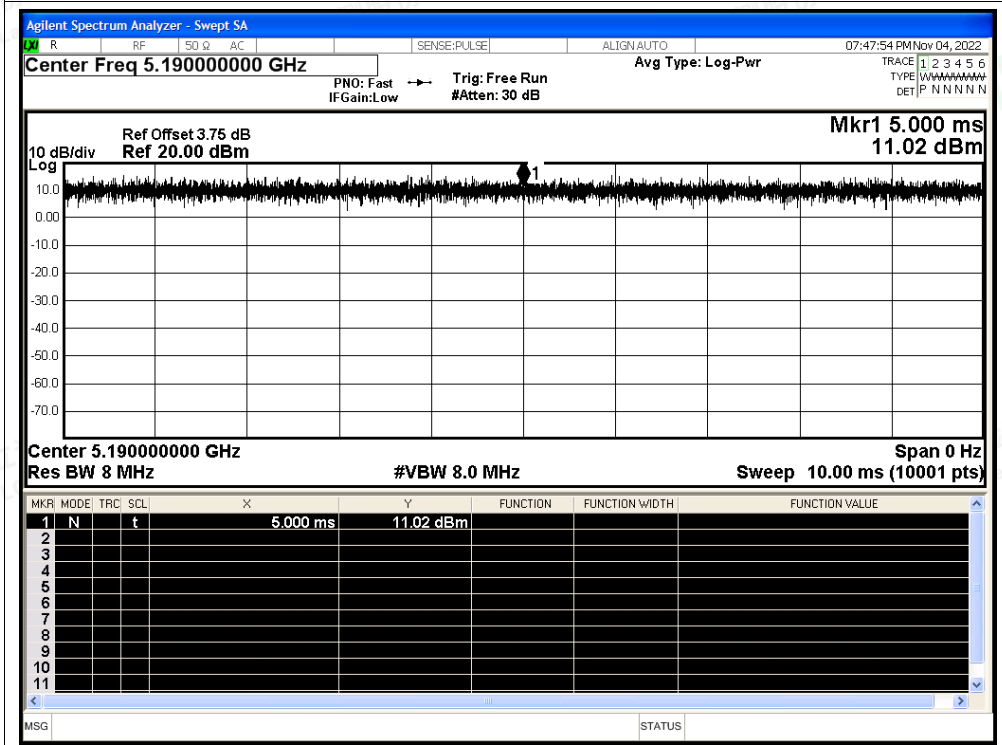




Duty Cycle NVNT ac20 5240MHz Ant

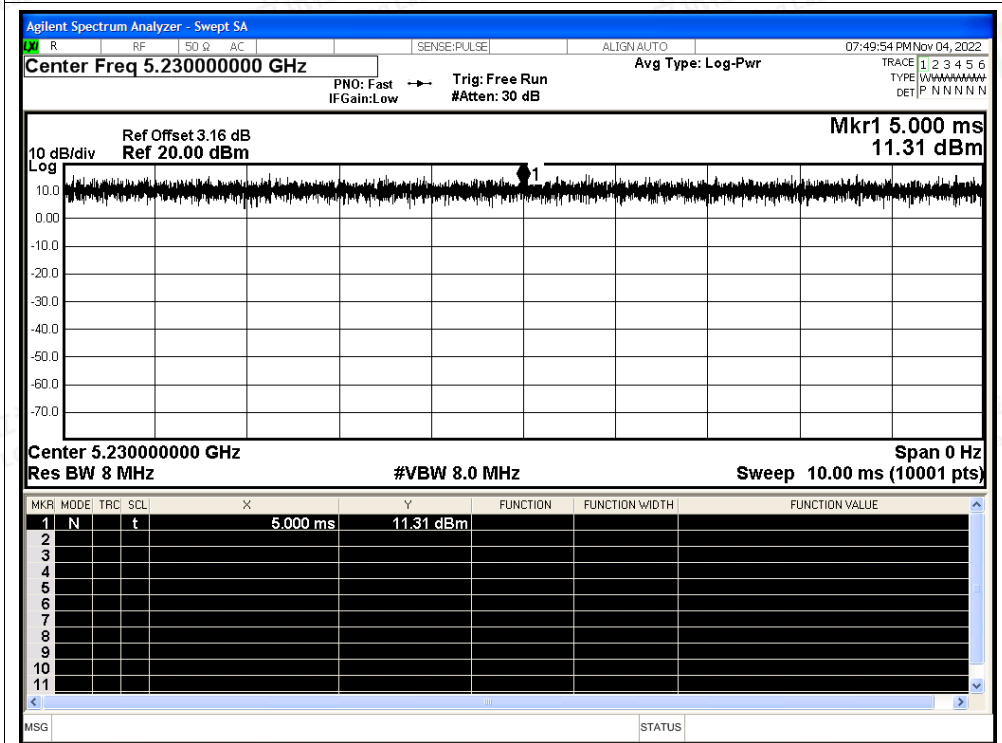


Duty Cycle NVNT ac40 5190MHz Ant





Duty Cycle NVNT ac40 5230MHz Ant



Duty Cycle NVNT ac80 5210MHz Ant

