



Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: ISOD Cutting Machine

Test Model: X6

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu





B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.094	--	Pass
NVNT	a	5200	Ant1	19.658	--	Pass
NVNT	a	5240	Ant1	19.587	--	Pass
NVNT	n20	5180	Ant1	20.488	--	Pass
NVNT	n20	5200	Ant1	20.049	--	Pass
NVNT	n20	5240	Ant1	20.458	--	Pass
NVNT	n40	5190	Ant1	39.982	--	Pass
NVNT	n40	5230	Ant1	40.354	--	Pass

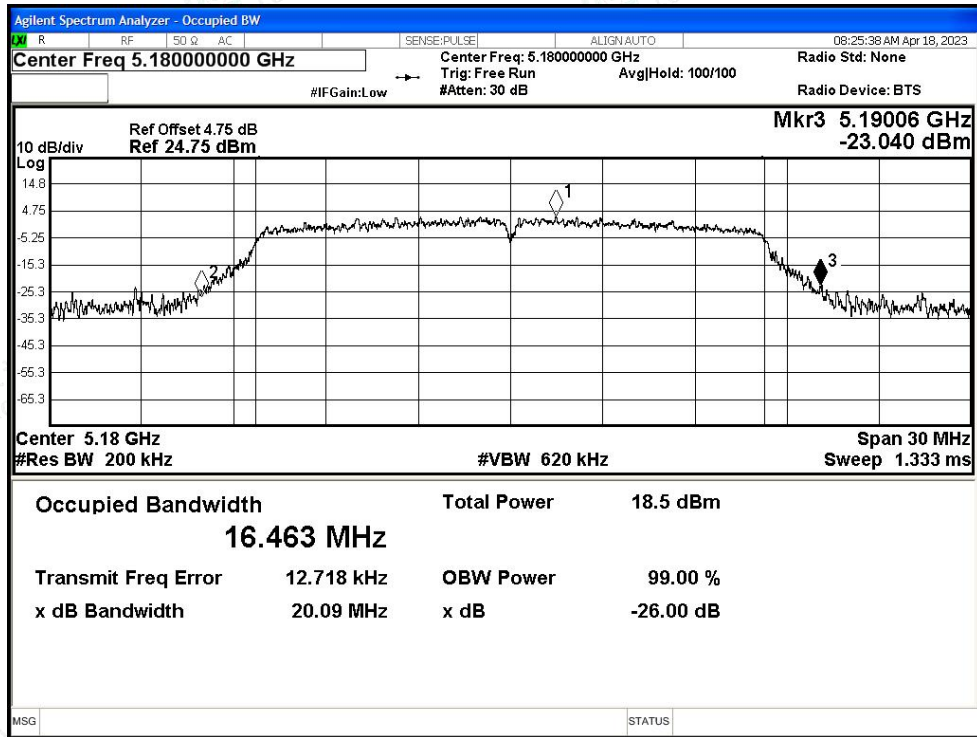


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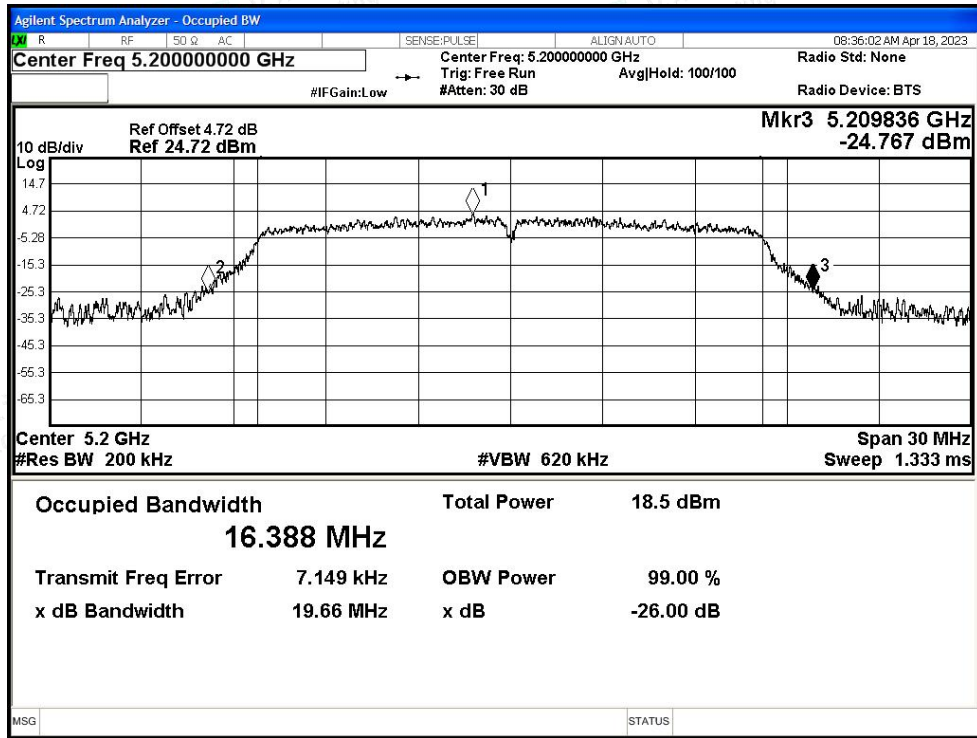


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

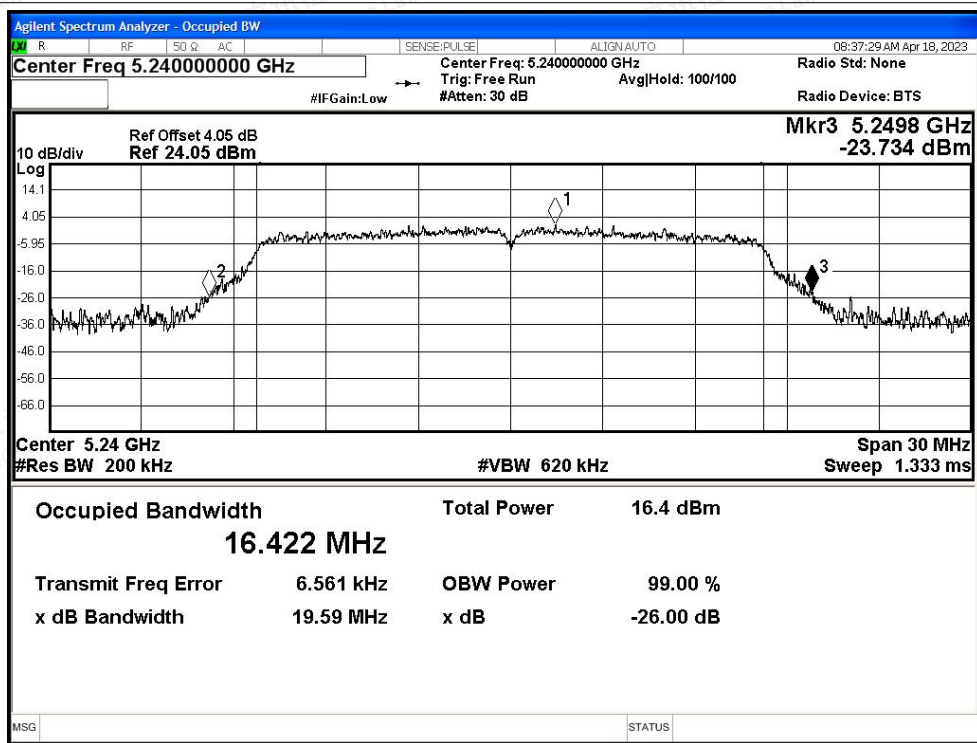


-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1

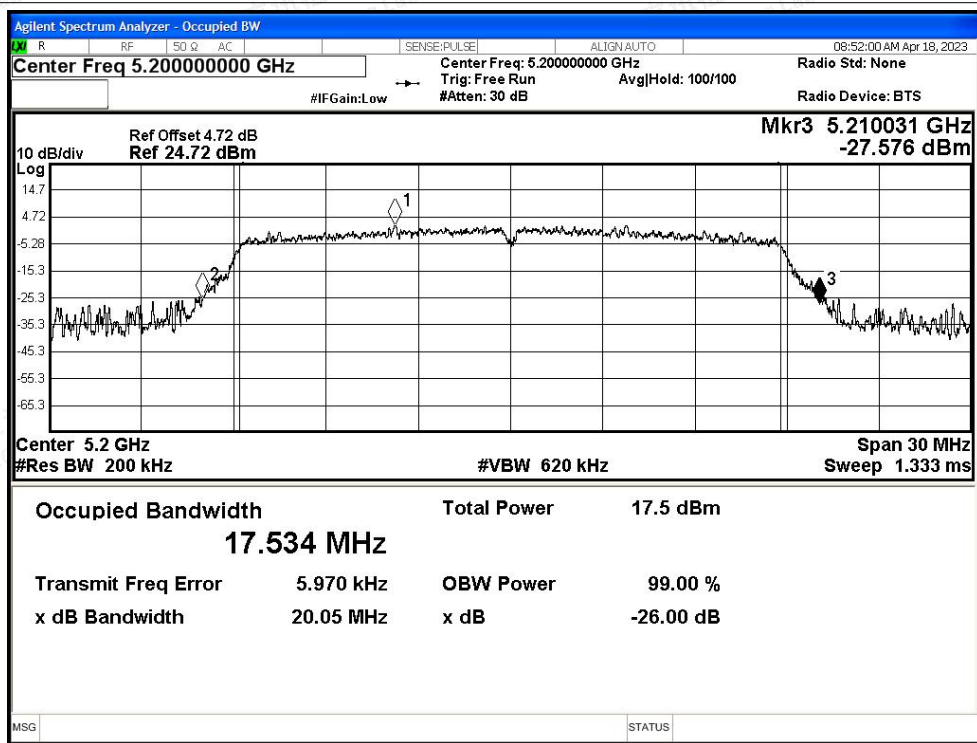


-26dB Bandwidth NVNT n20 5180MHz Ant1

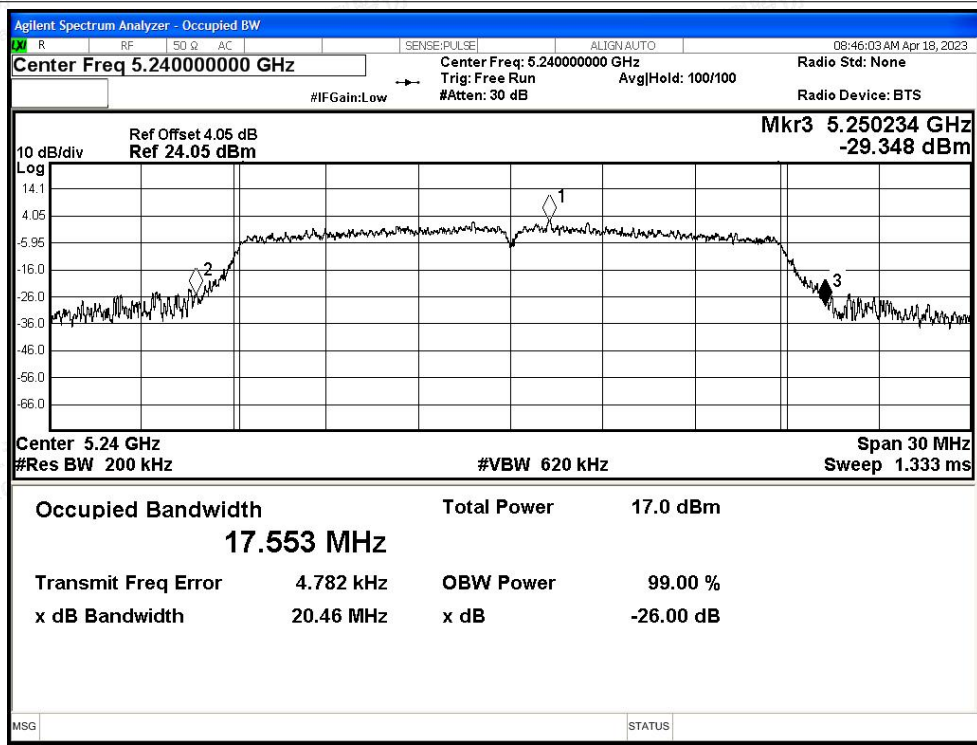




-26dB Bandwidth NVNT n20 5200MHz Ant1

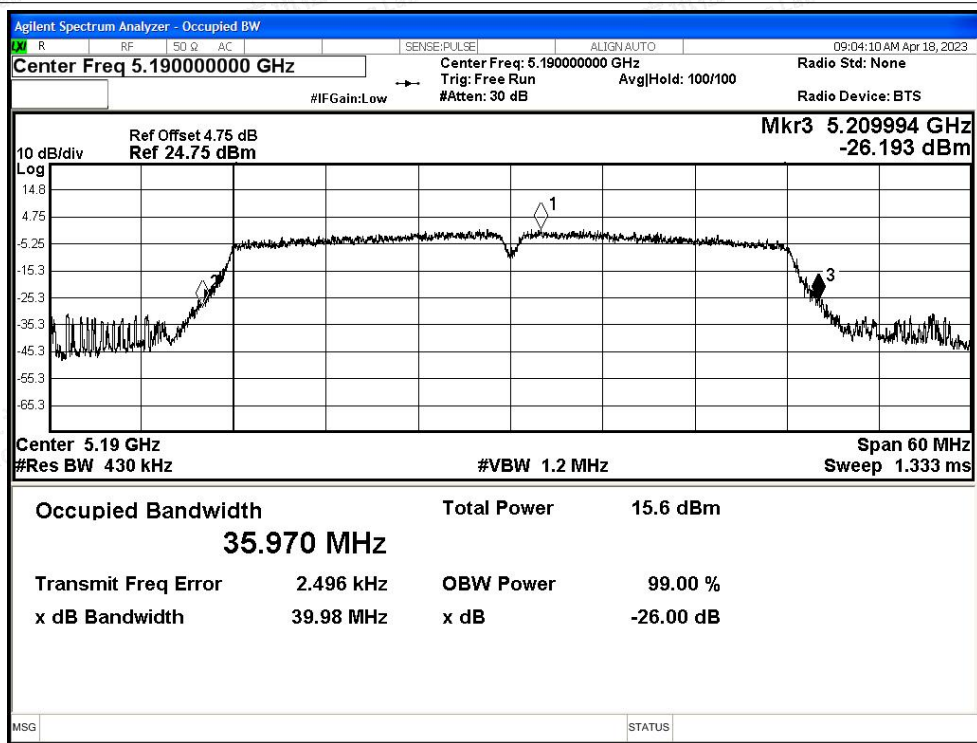


-26dB Bandwidth NVNT n20 5240MHz Ant1

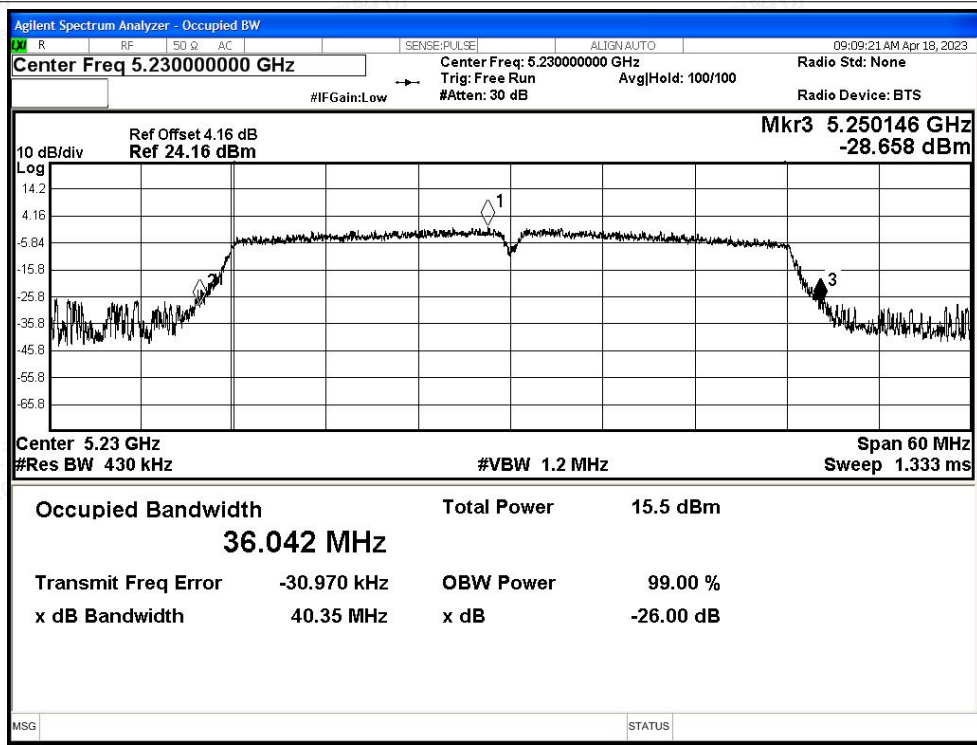




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1





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	Ant1	12.99	0.13	13.12	24	Pass
NVNT	a	5200	Ant1	12.84	0.13	12.97	24	Pass
NVNT	a	5240	Ant1	10.92	0.14	11.06	24	Pass
NVNT	n20	5180	Ant1	12.76	0.15	12.91	24	Pass
NVNT	n20	5200	Ant1	11.84	0.15	11.99	24	Pass
NVNT	n20	5240	Ant1	11.31	0.15	11.46	24	Pass
NVNT	n40	5190	Ant1	9.73	0.29	10.02	24	Pass
NVNT	n40	5230	Ant1	9.59	0.29	9.88	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	Ant1	3.38	0.13	3.51	11	Pass
NVNT	a	5200	Ant1	3.18	0.13	3.31	11	Pass
NVNT	a	5240	Ant1	1.53	0.14	1.67	11	Pass
NVNT	n20	5180	Ant1	2.71	0.15	2.86	11	Pass
NVNT	n20	5200	Ant1	2.11	0.15	2.26	11	Pass
NVNT	n20	5240	Ant1	1.36	0.15	1.51	11	Pass
NVNT	n40	5190	Ant1	-3.24	0.29	-2.95	11	Pass
NVNT	n40	5230	Ant1	-2.94	0.29	-2.65	11	Pass

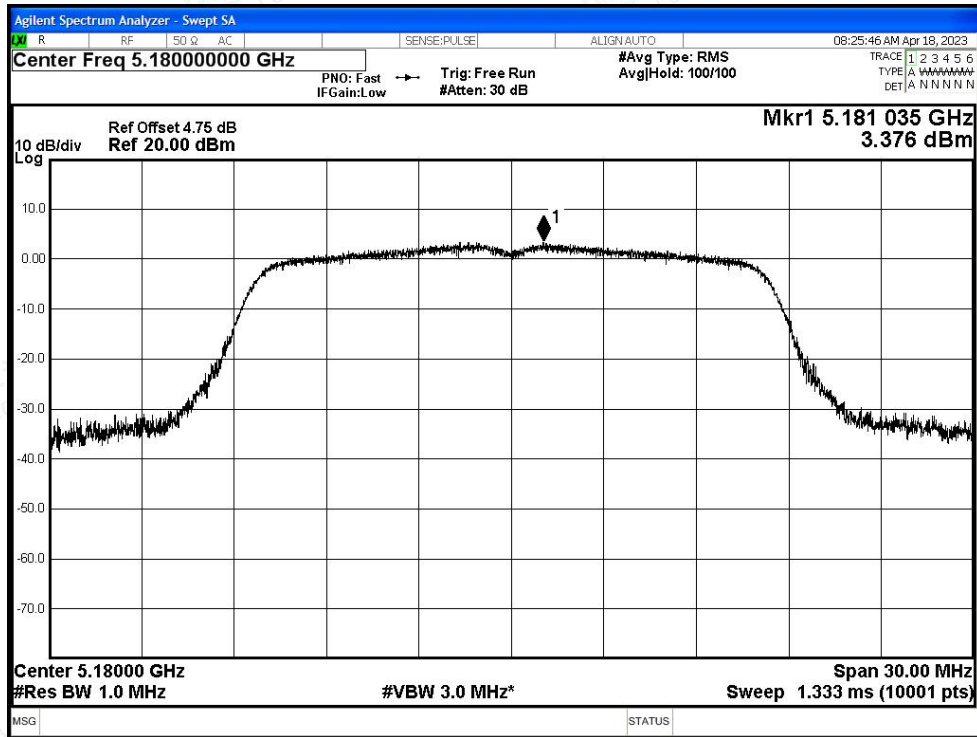


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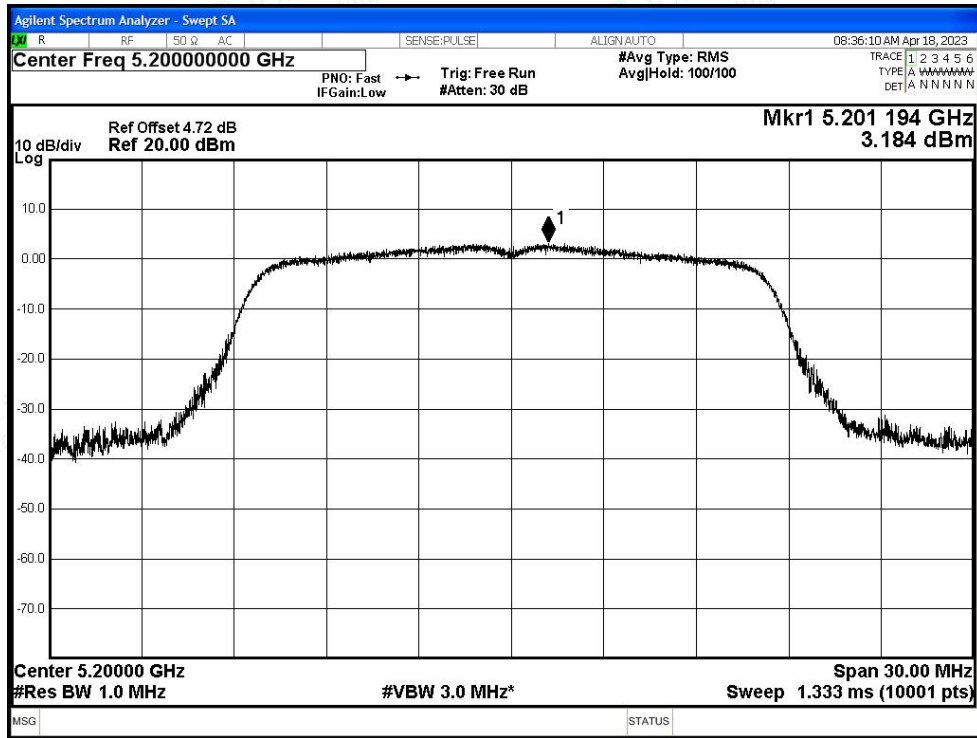


Test Graphs

PSD NVNT a 5180MHz Ant1

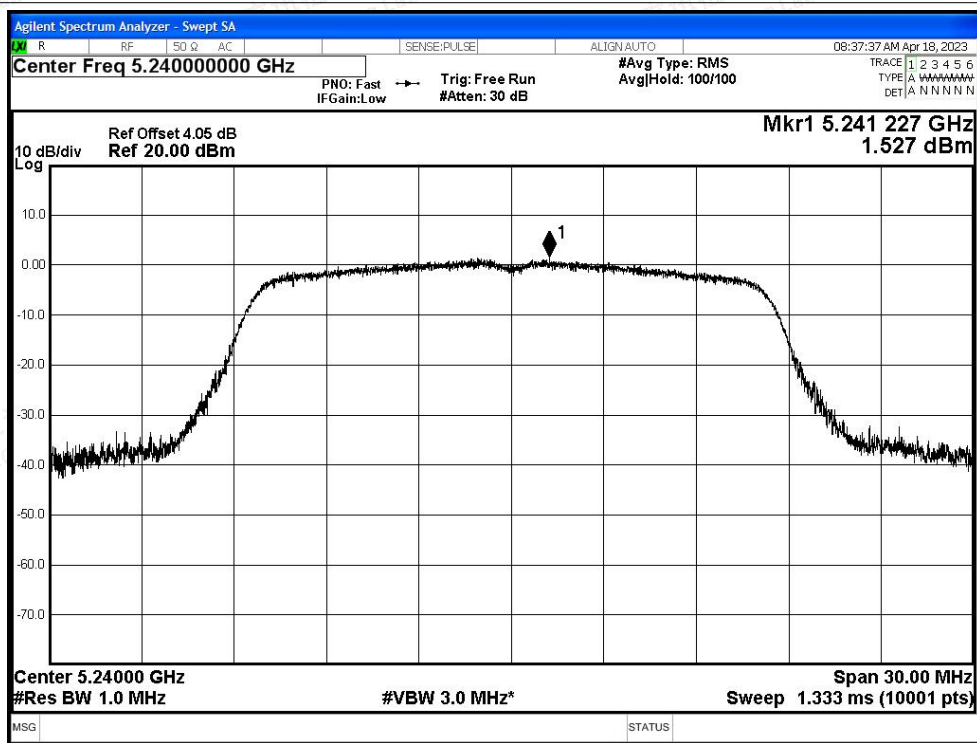


PSD NVNT a 5200MHz Ant1

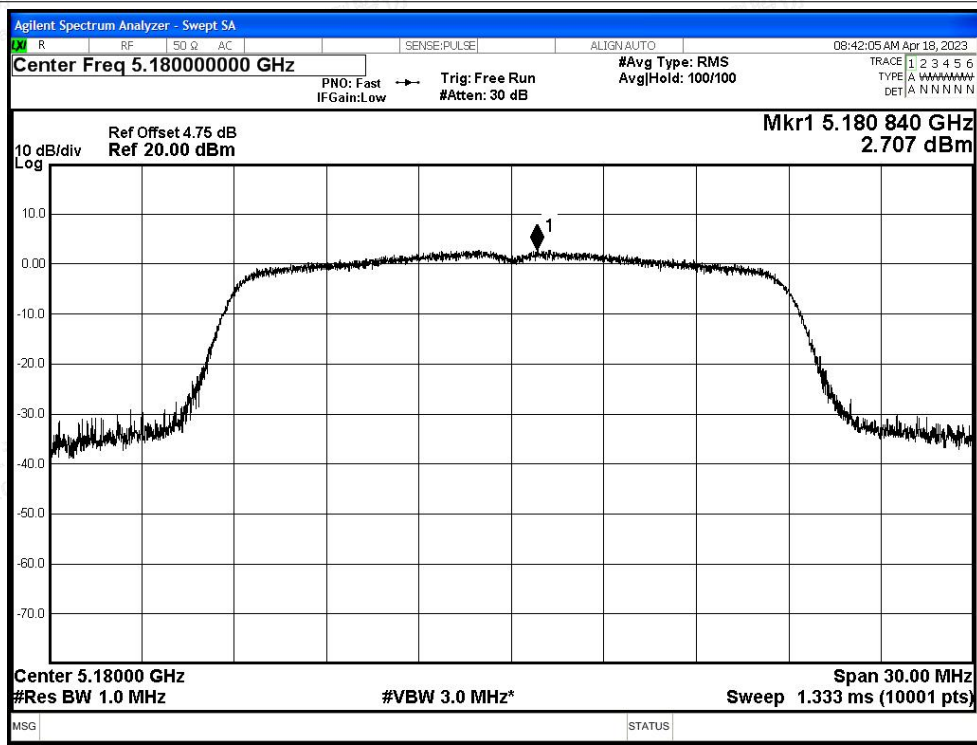


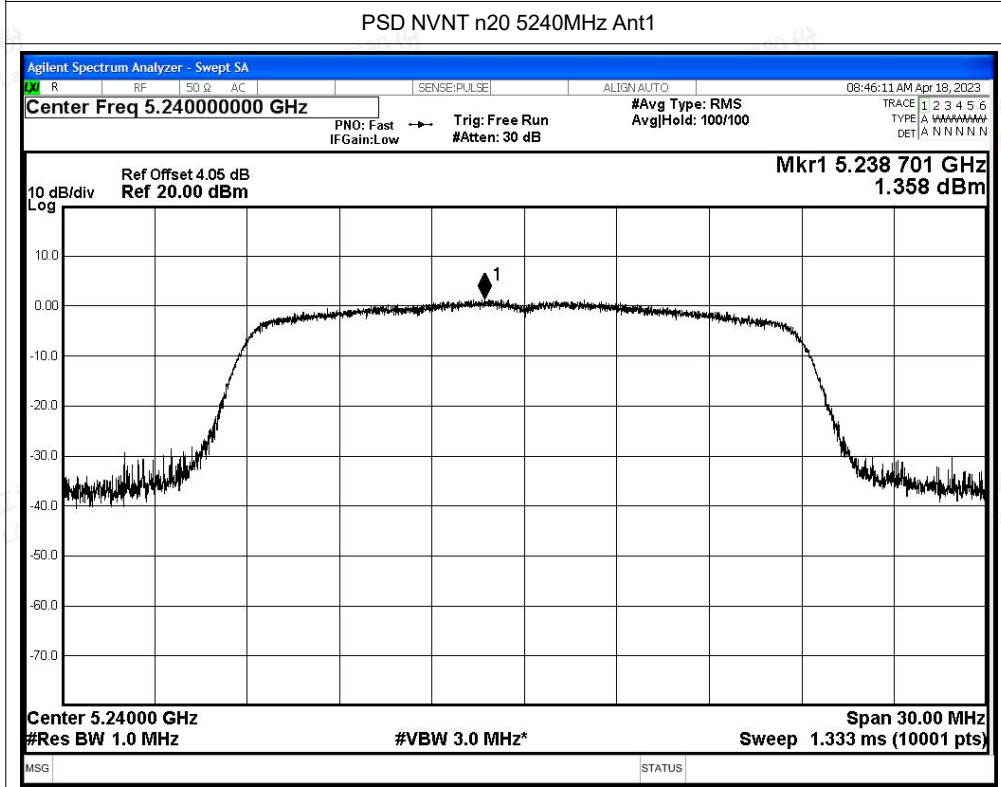
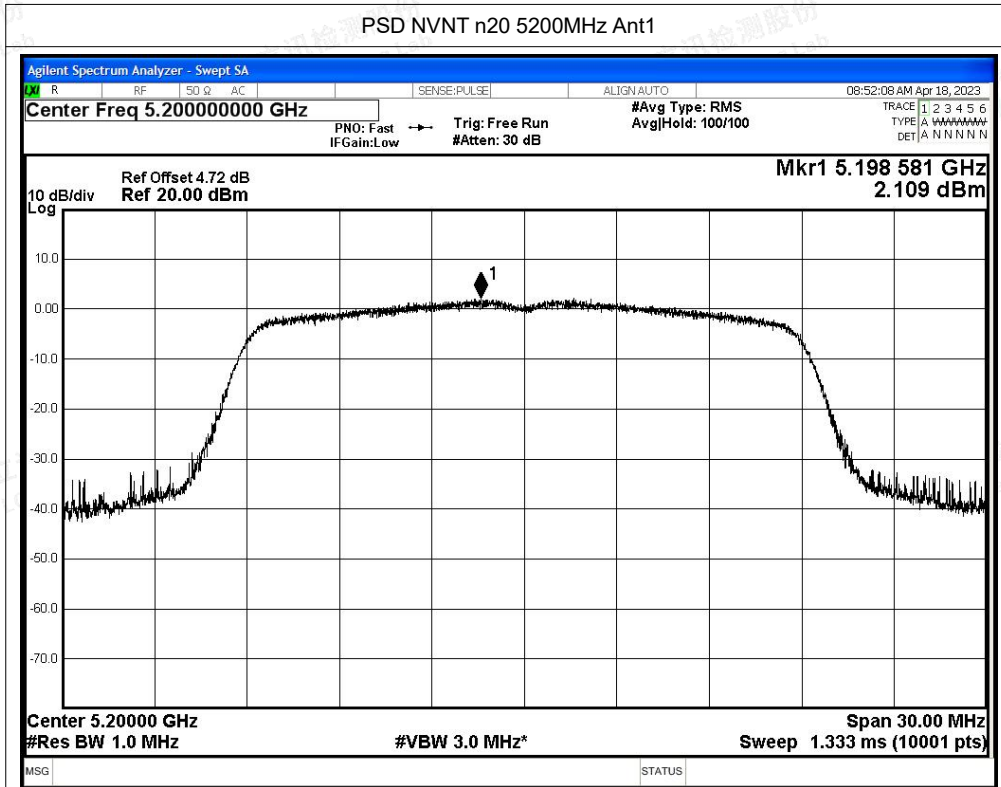


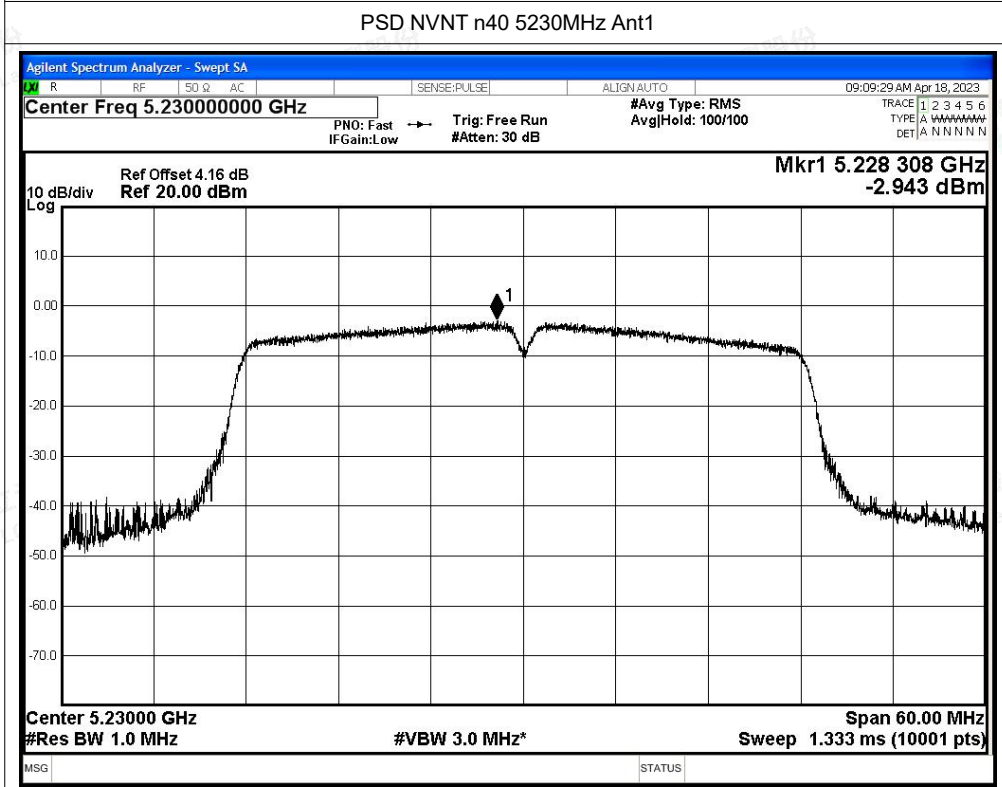
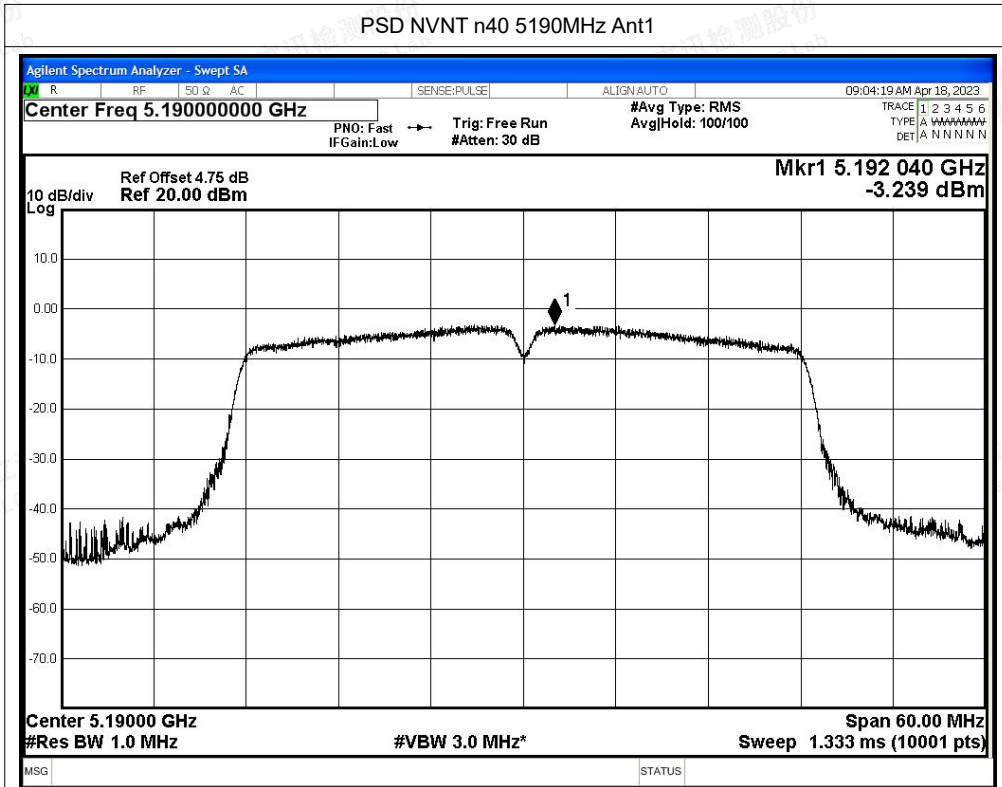
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1









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	Ant1	4500	-48.91	2.97	49.29	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-56.18	2.97	42.02	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-35.91	2.97	62.29	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-45.76	2.97	52.44	Average	54	Pass
NVNT	a	5180	Ant1	5150	-35.89	2.97	62.31	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-45.45	2.97	52.75	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.92	2.97	50.28	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-54.96	2.97	43.24	Average	54	Pass
NVNT	a	5240	Ant1	5361.36	-45	2.97	53.20	Peak	68.2	Pass
NVNT	a	5240	Ant1	5352	-54.8	2.97	43.40	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.78	2.97	49.42	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-55.87	2.97	42.33	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.38	2.97	48.82	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-56.15	2.97	42.05	Average	54	Pass
NVNT	n20	5180	Ant1	5147.5	-33.37	2.97	64.83	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.9	-45.31	2.97	52.89	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-34.03	2.97	64.17	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-44.8	2.97	53.40	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-47.77	2.97	50.43	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-54.47	2.97	43.73	Average	54	Pass
NVNT	n20	5240	Ant1	5410.8	-45.41	2.97	52.79	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5351.04	-54.43	2.97	43.77	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.74	2.97	49.46	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-55.8	2.97	42.40	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.78	2.97	49.42	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-56.14	2.97	42.06	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-30.1	2.97	68.10	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-47.13	2.97	51.07	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-30.1	2.97	68.10	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-47.13	2.97	51.07	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.16	2.97	50.04	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-54.52	2.97	43.68	Average	54	Pass
NVNT	n40	5230	Ant1	5361.18	-45.6	2.97	52.60	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5362.53	-54.38	2.97	43.82	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.69	2.97	48.51	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-55.39	2.97	42.81	Average	54	Pass

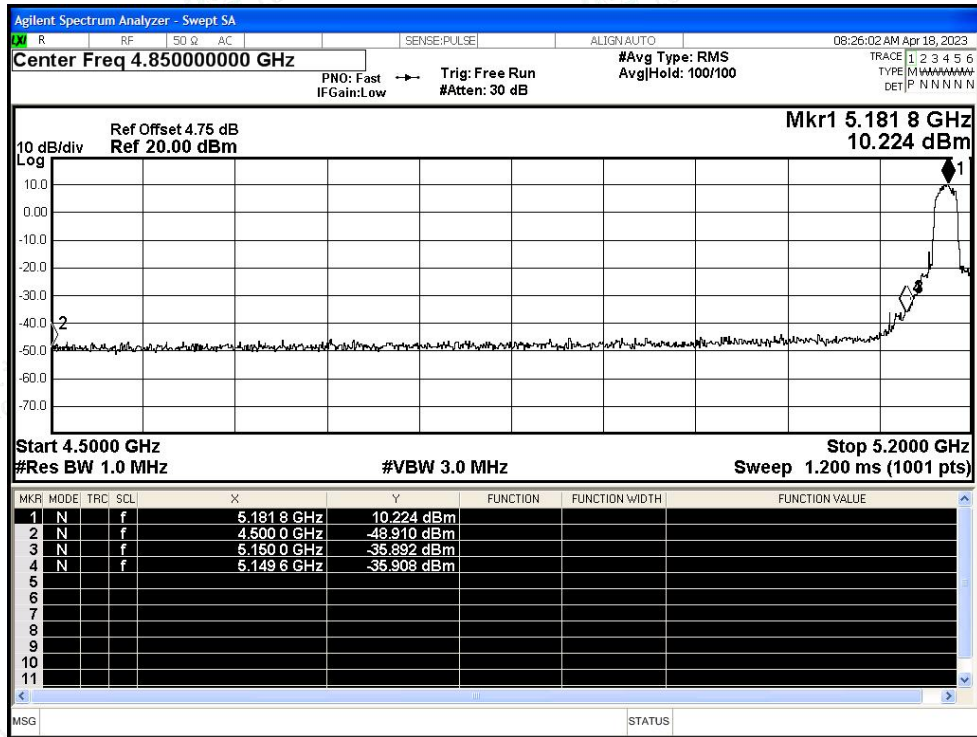


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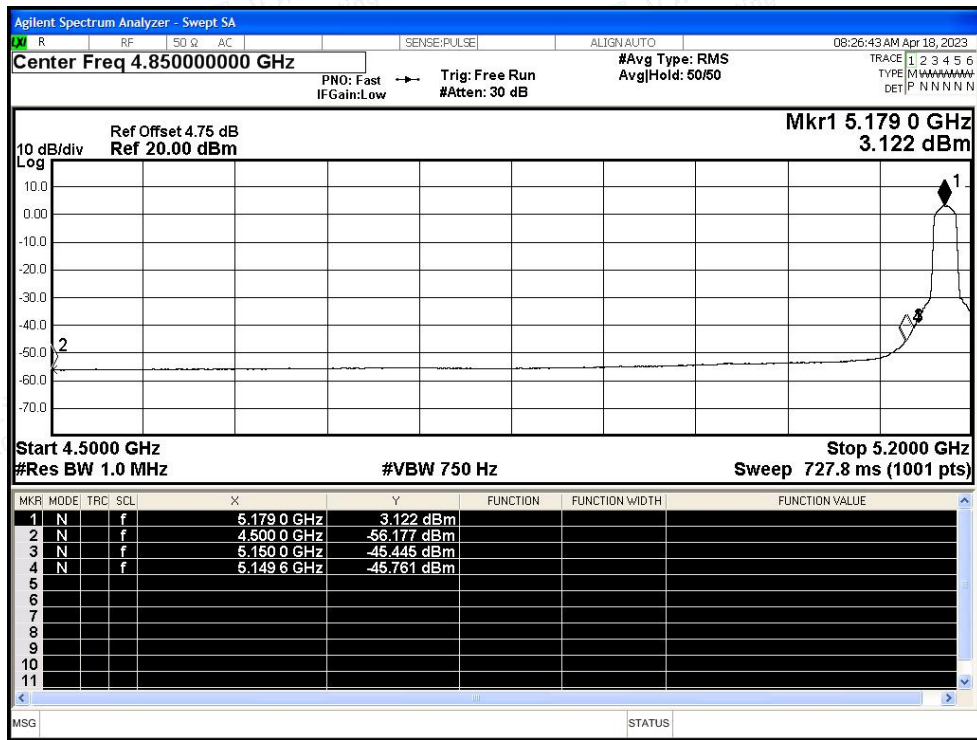


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

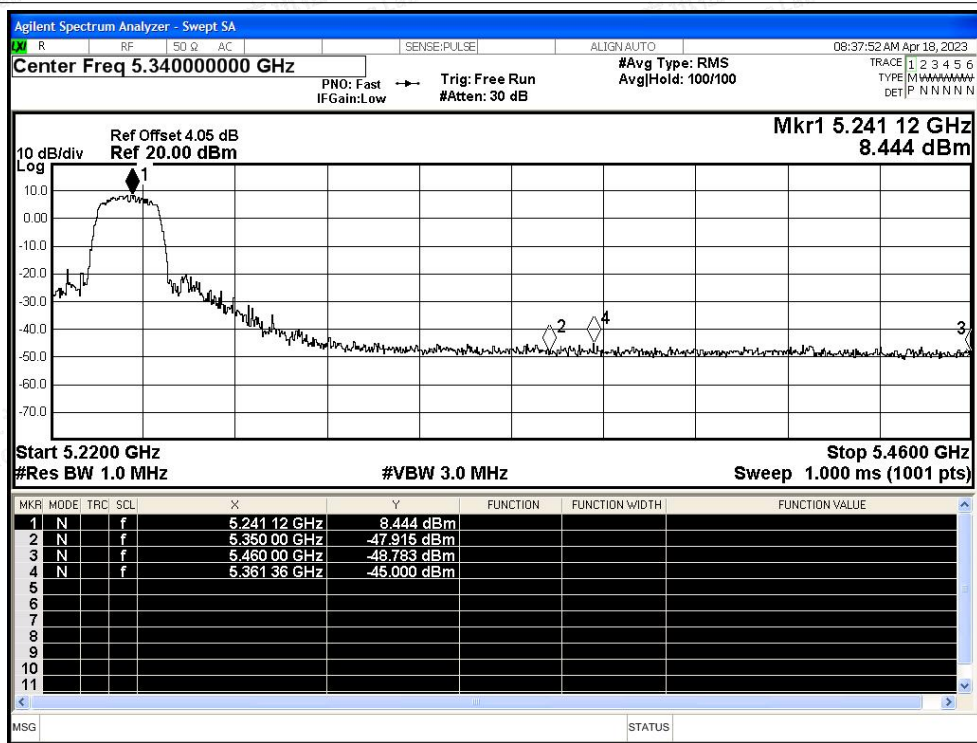


Restrict Band NVNT a 5180MHz Ant1 Average

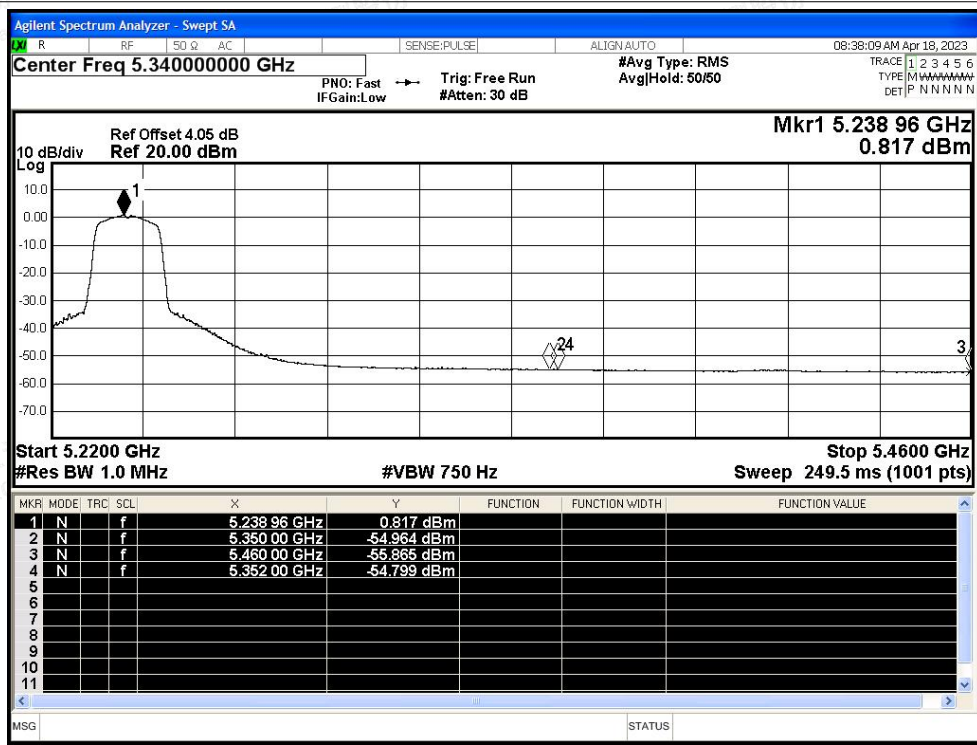




Restrict Band NVNT a 5240MHz Ant1 Peak

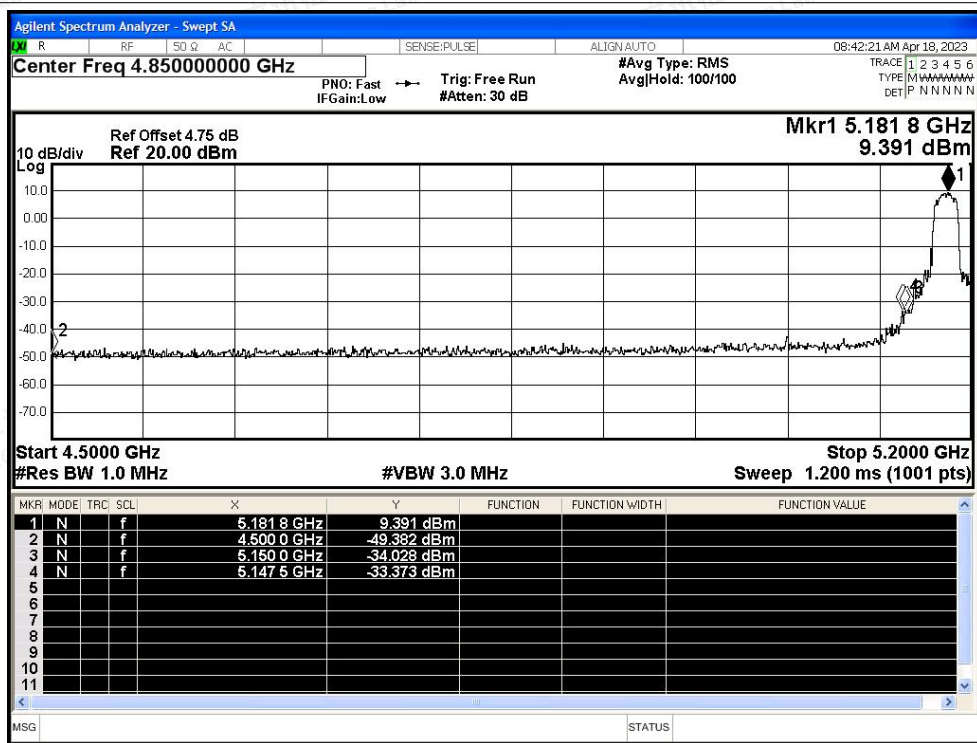


Restrict Band NVNT a 5240MHz Ant1 Average

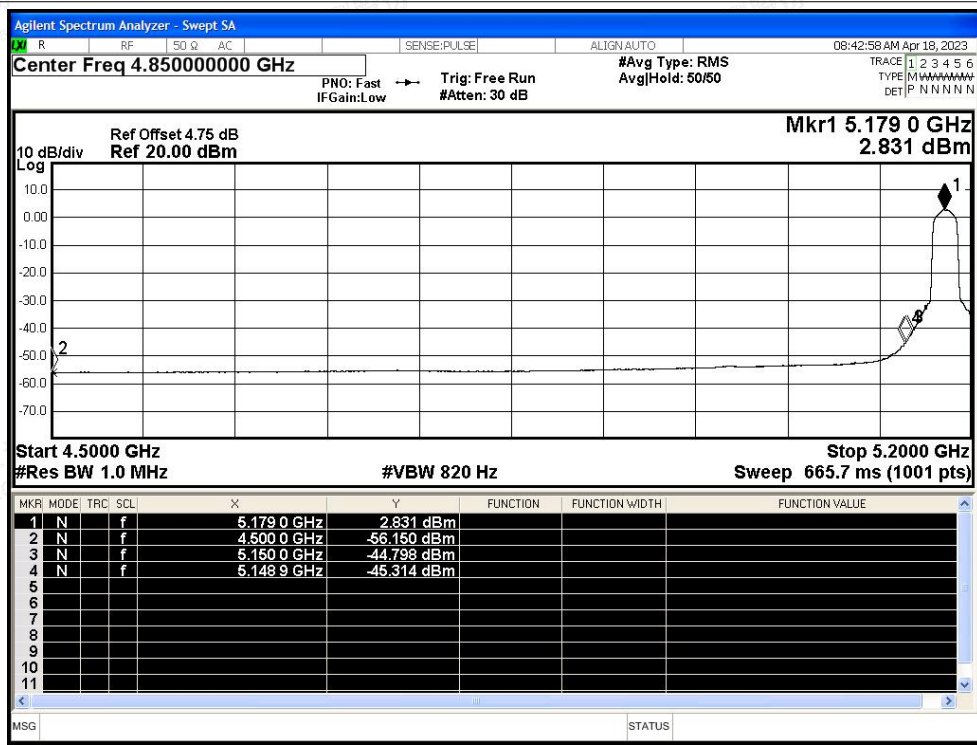




Restrict Band NVNT n20 5180MHz Ant1 Peak

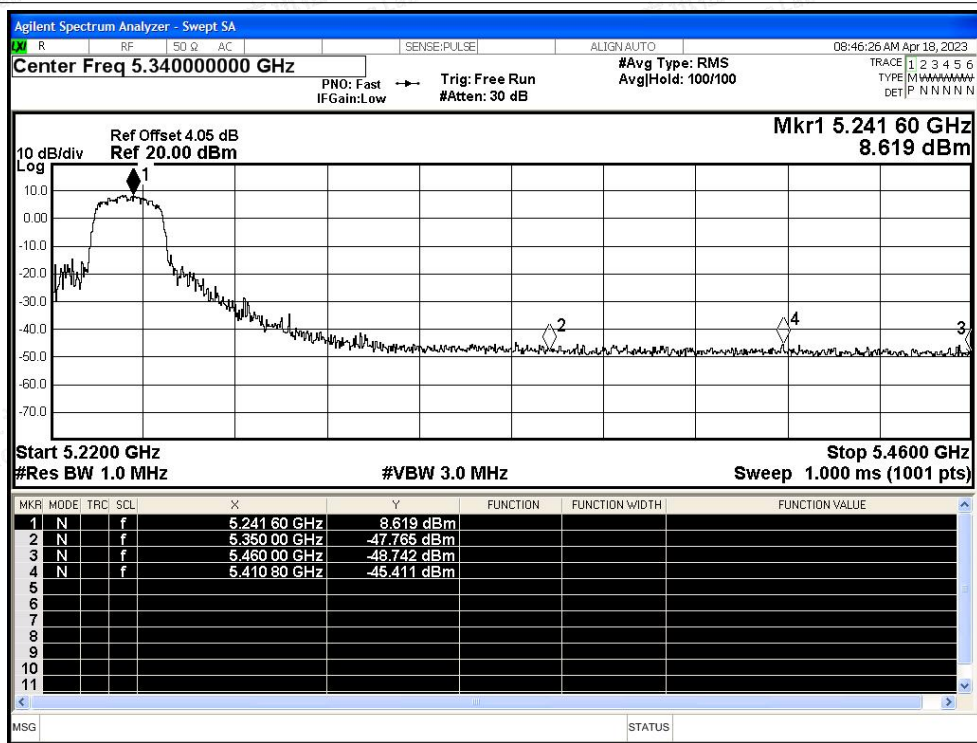


Restrict Band NVNT n20 5180MHz Ant1 Average

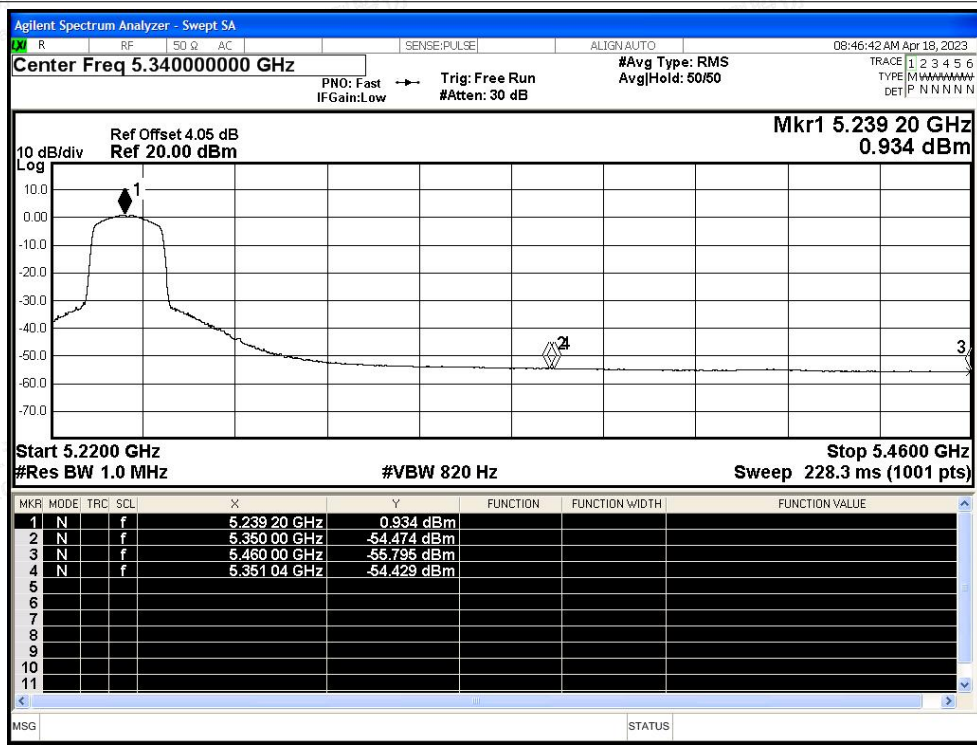




Restrict Band NVNT n20 5240MHz Ant1 Peak

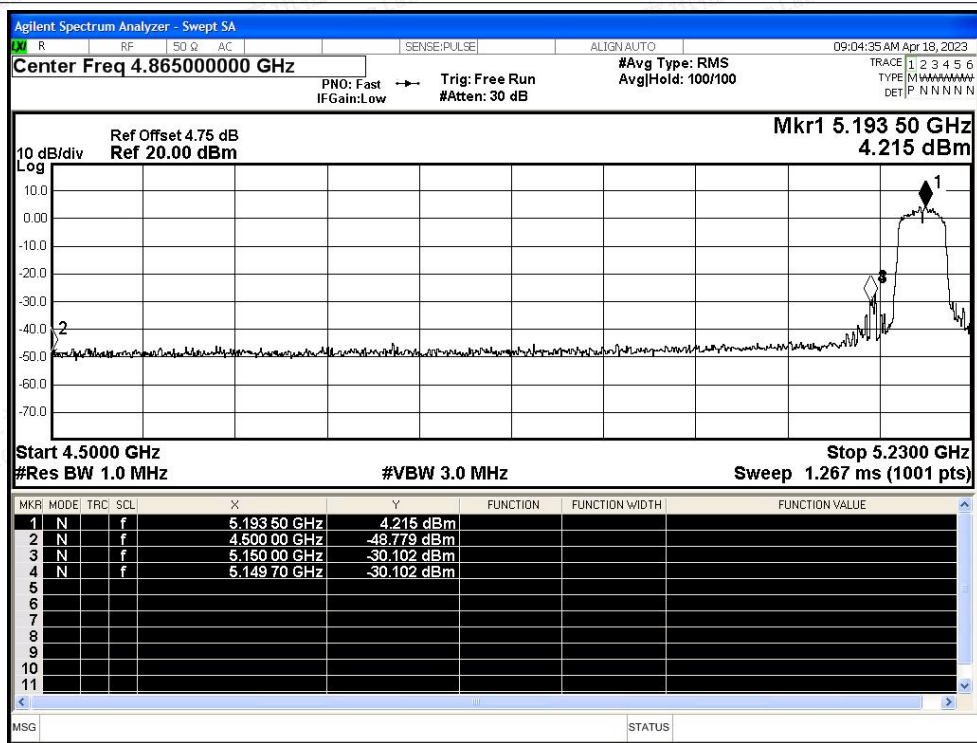


Restrict Band NVNT n20 5240MHz Ant1 Average

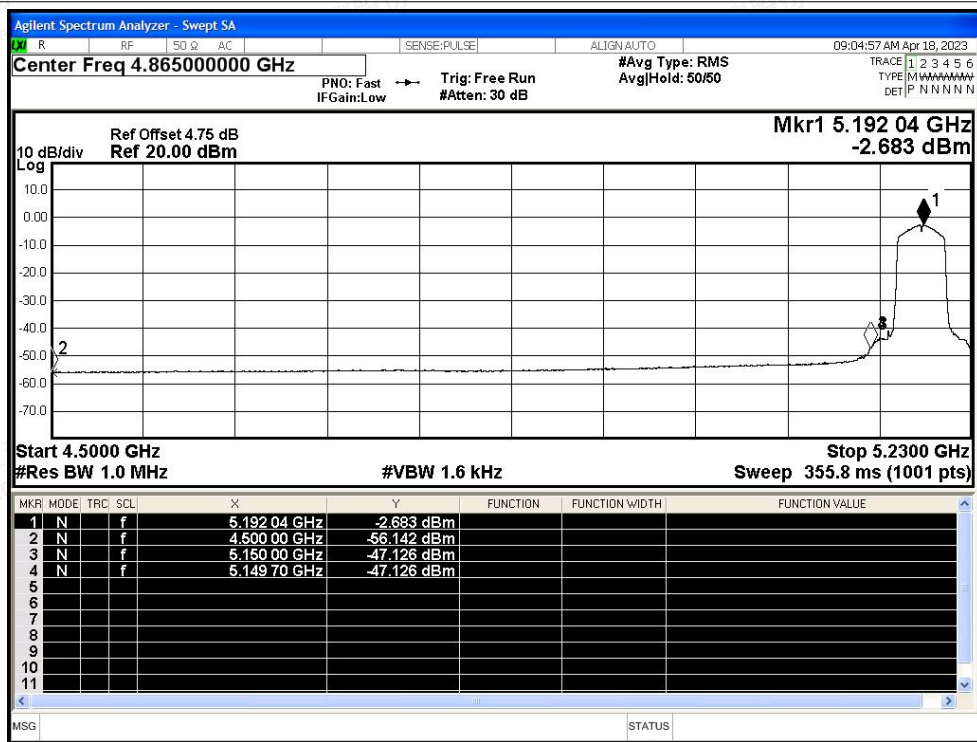




Restrict Band NVNT n40 5190MHz Ant1 Peak

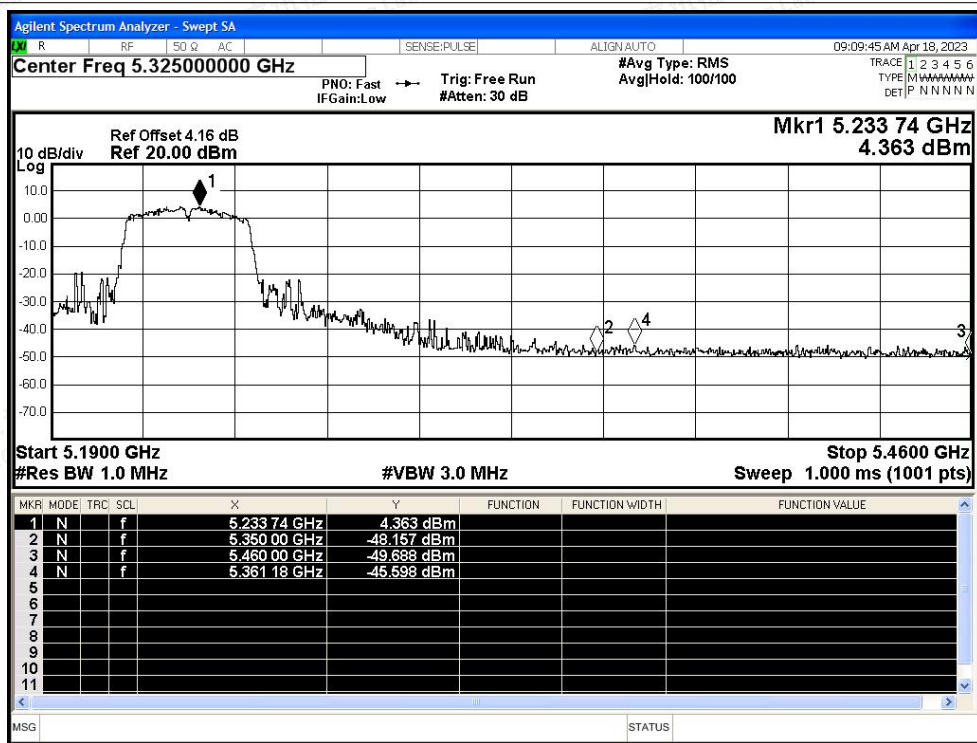


Restrict Band NVNT n40 5190MHz Ant1 Average

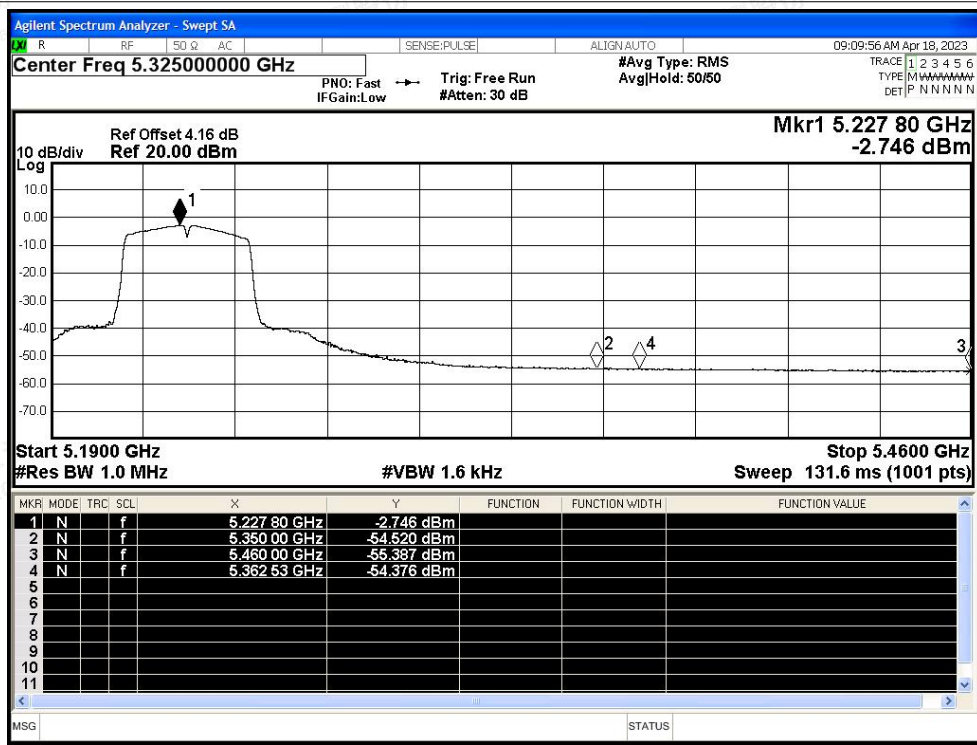




Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average





B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass

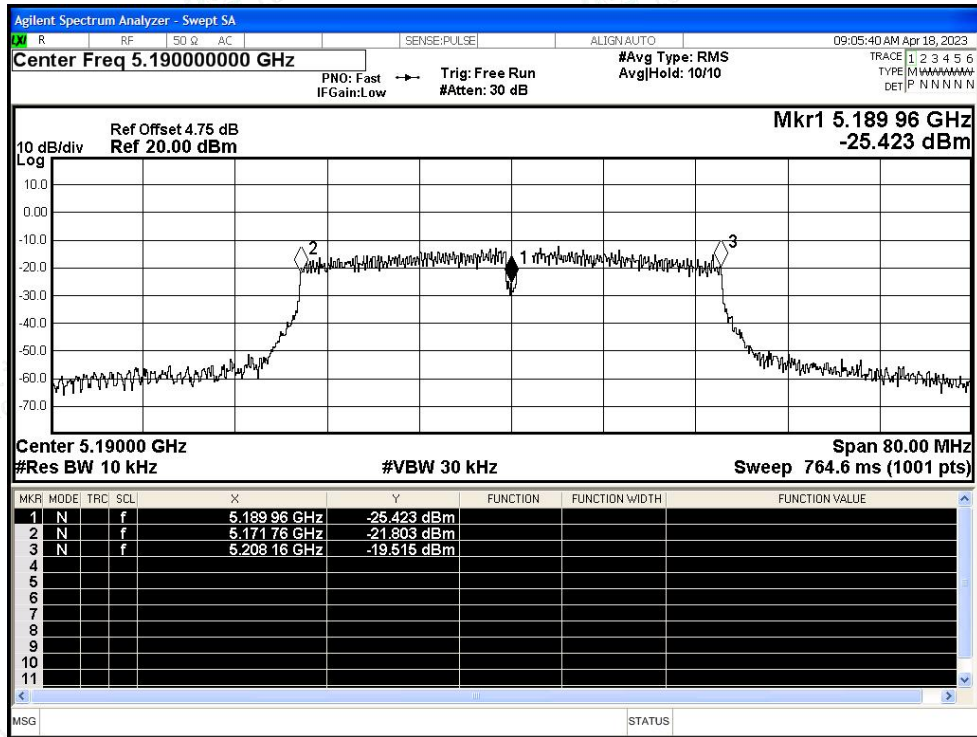


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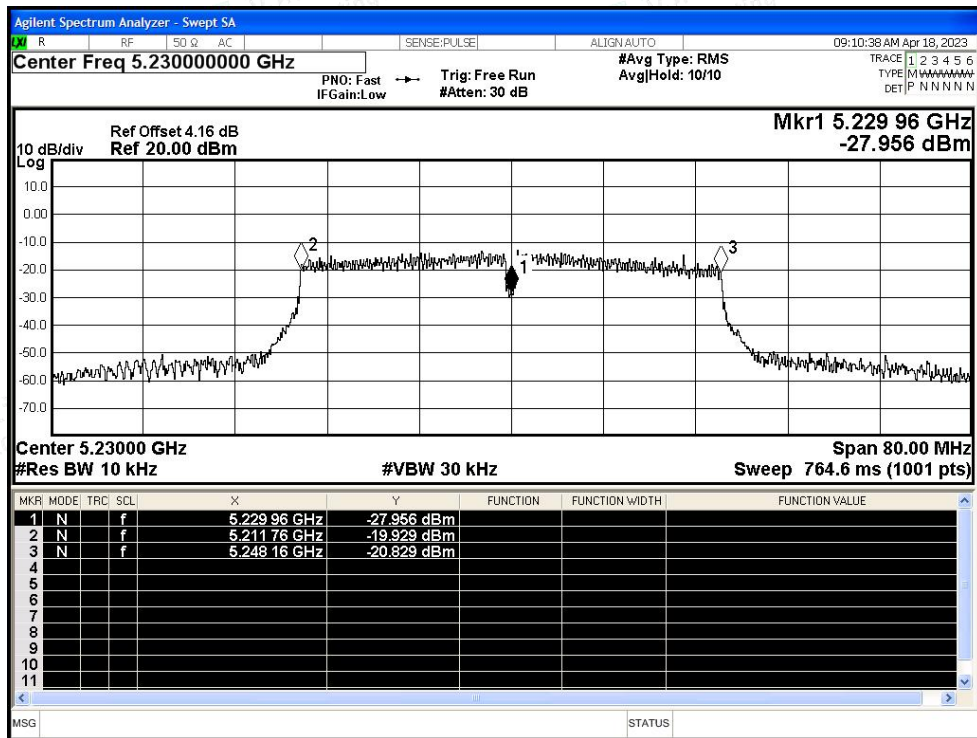


Test Graphs

Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1





B.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	5200	Ant1	96.94	0.13	0.72
NVNT	a	5240	Ant1	96.87	0.14	0.72
NVNT	n20	5180	Ant1	96.7	0.15	0.78
NVNT	n20	5200	Ant1	96.7	0.15	0.78
NVNT	n20	5240	Ant1	96.7	0.15	0.78
NVNT	n40	5190	Ant1	93.64	0.29	1.54
NVNT	n40	5230	Ant1	93.64	0.29	1.54

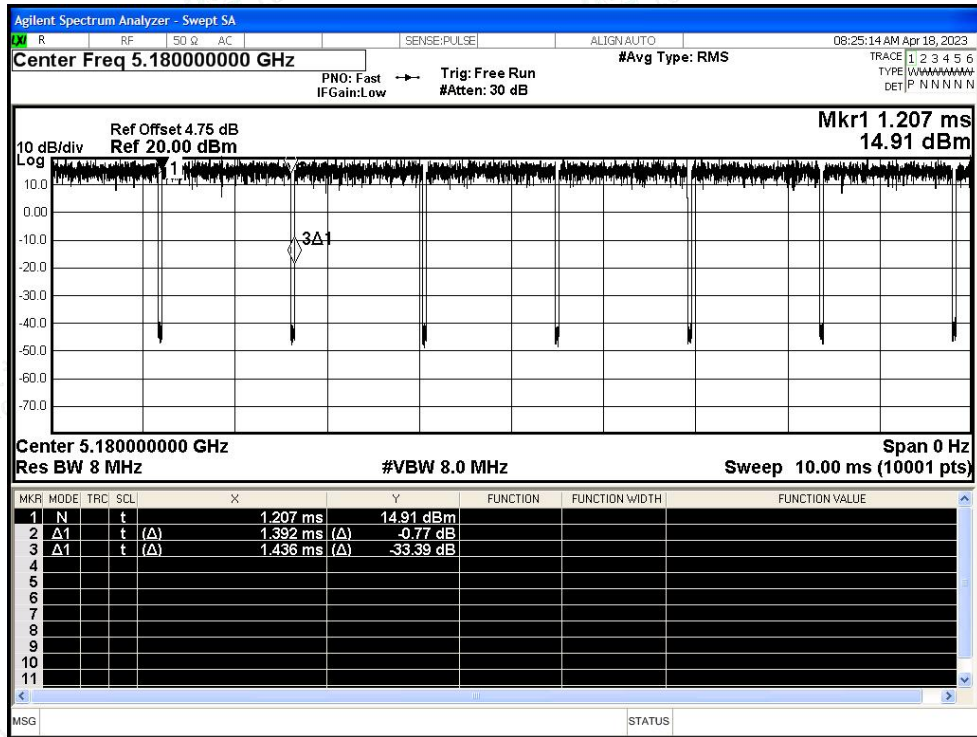


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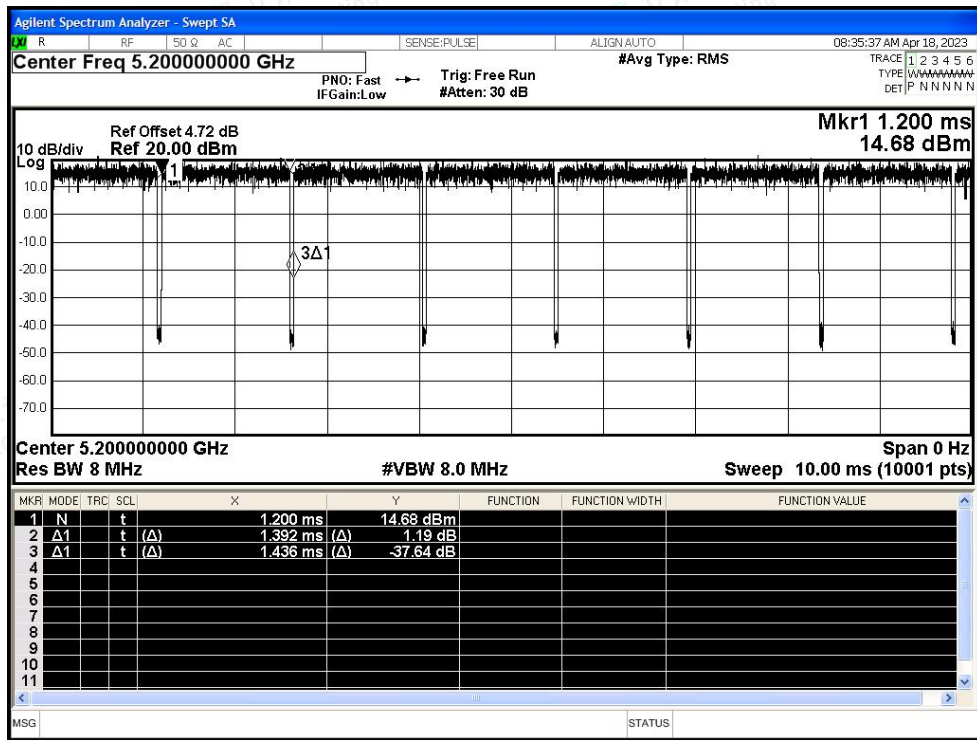


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

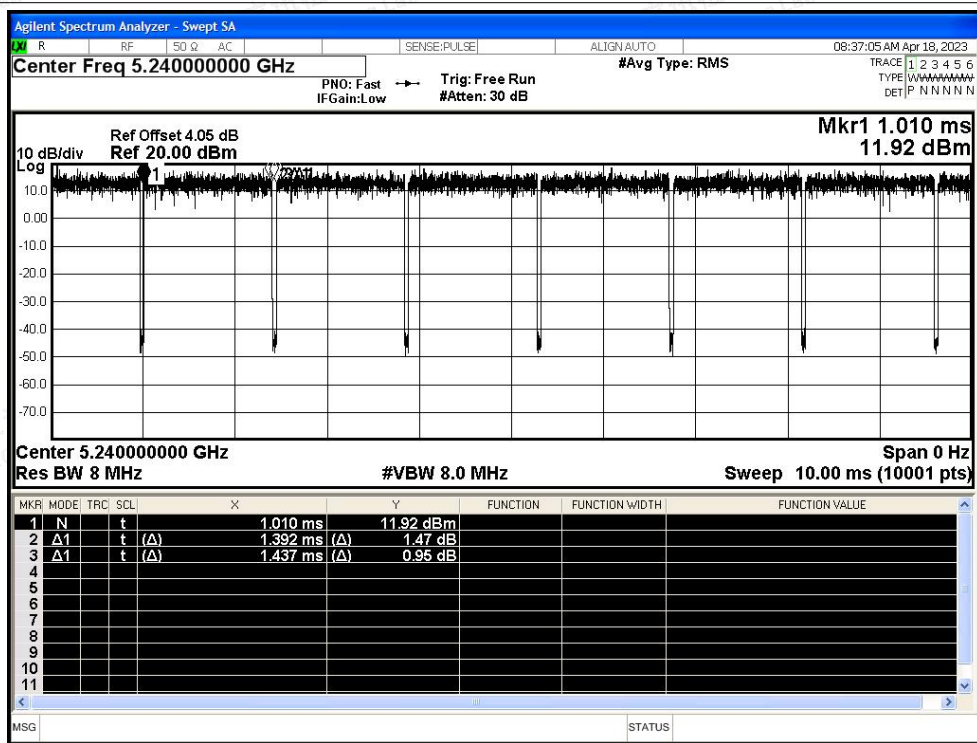


Duty Cycle NVNT a 5200MHz Ant1

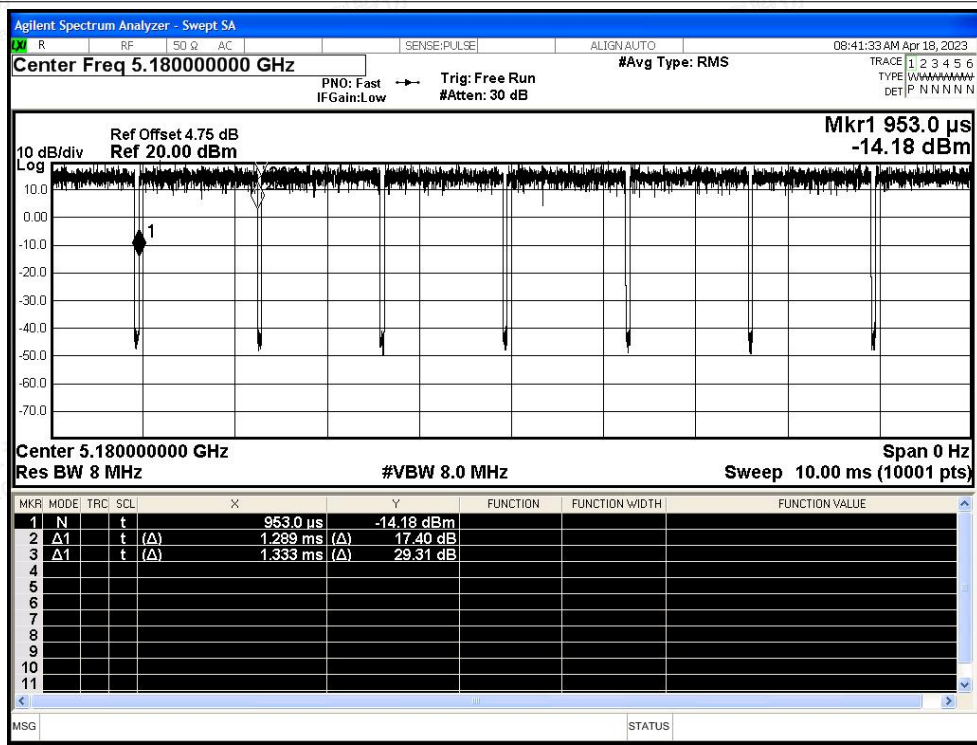




Duty Cycle NVNT a 5240MHz Ant1

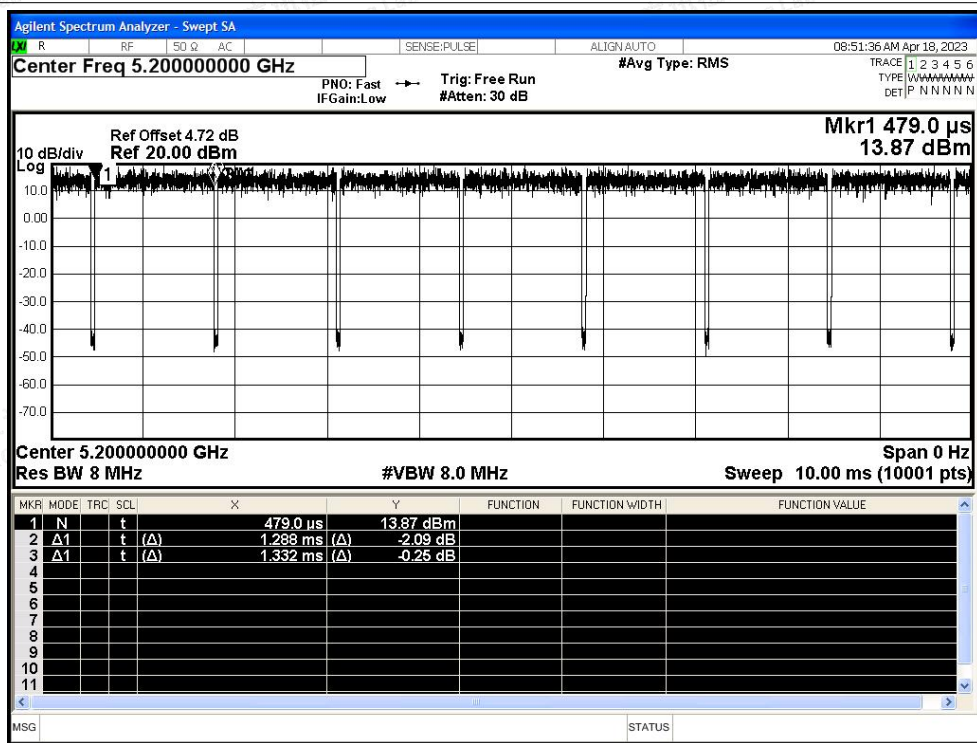


Duty Cycle NVNT n20 5180MHz Ant1

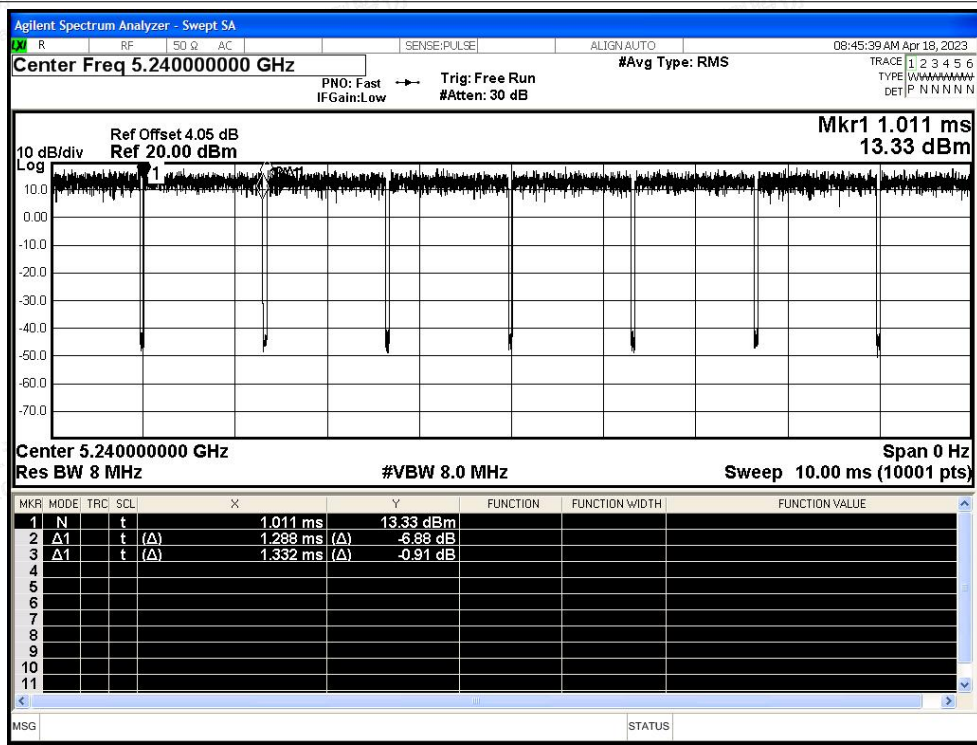




Duty Cycle NVNT n20 5200MHz Ant1

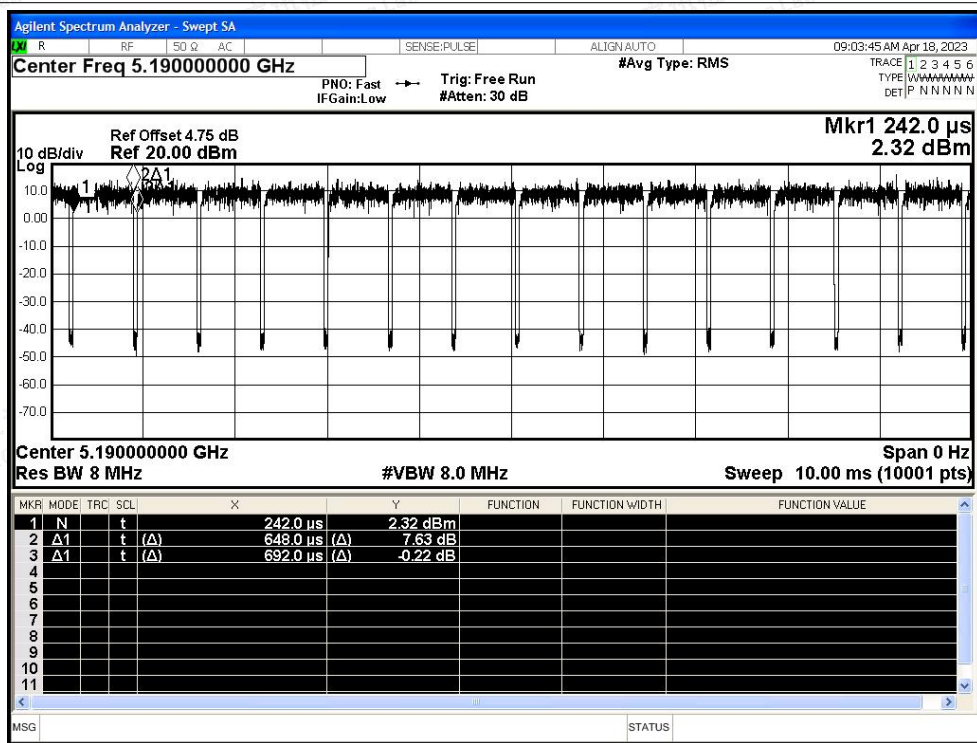


Duty Cycle NVNT n20 5240MHz Ant1





Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1

