



Appendix D

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: Wifi piggy board

Test Model: T52030

Environmental Conditions

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



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D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant	20.116	0.5	Pass
NVNT	a	5580	Ant	19.976	0.5	Pass
NVNT	a	5700	Ant	20.058	0.5	Pass
NVNT	n20	5500	Ant	20.386	0.5	Pass
NVNT	n20	5580	Ant	20.179	0.5	Pass
NVNT	n20	5700	Ant	20.228	0.5	Pass

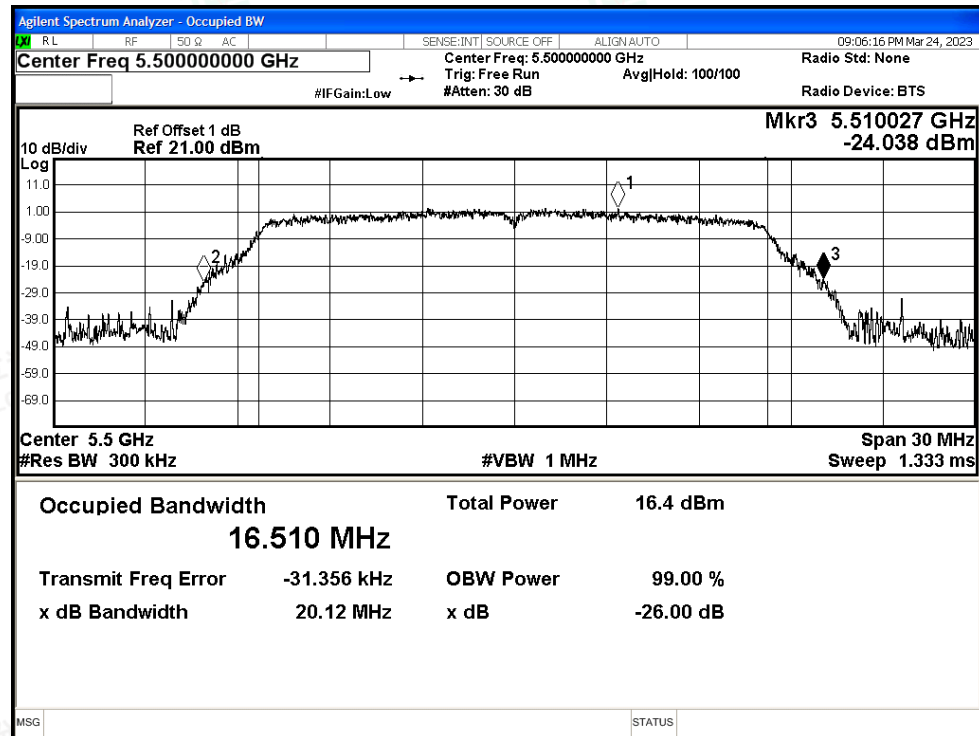


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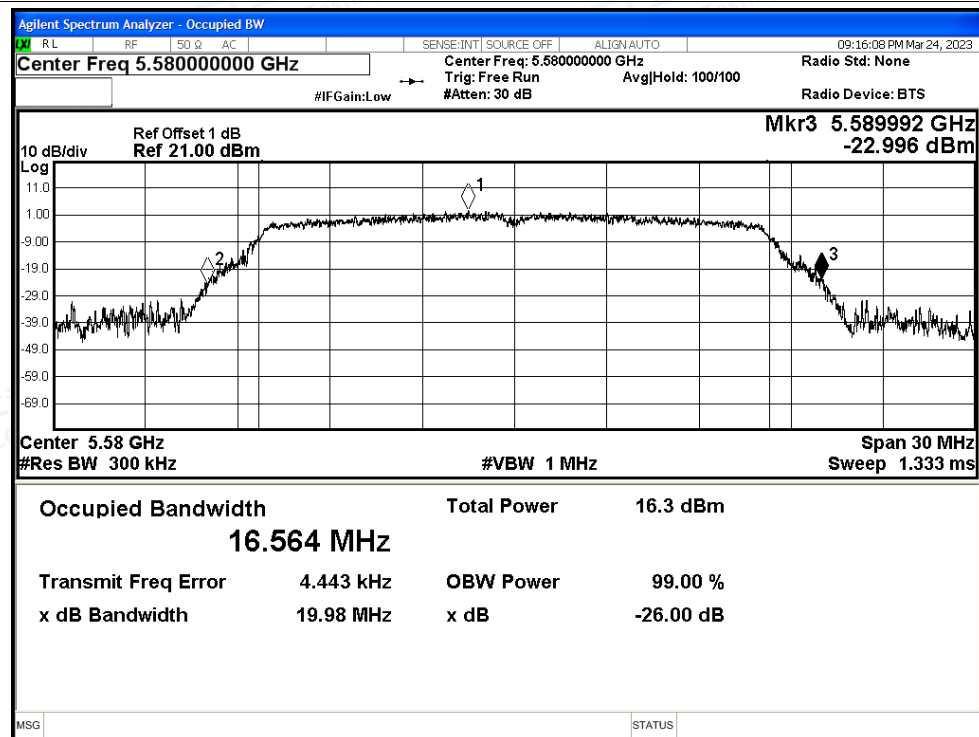


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant



-26dB Bandwidth NVNT a 5580MHz Ant



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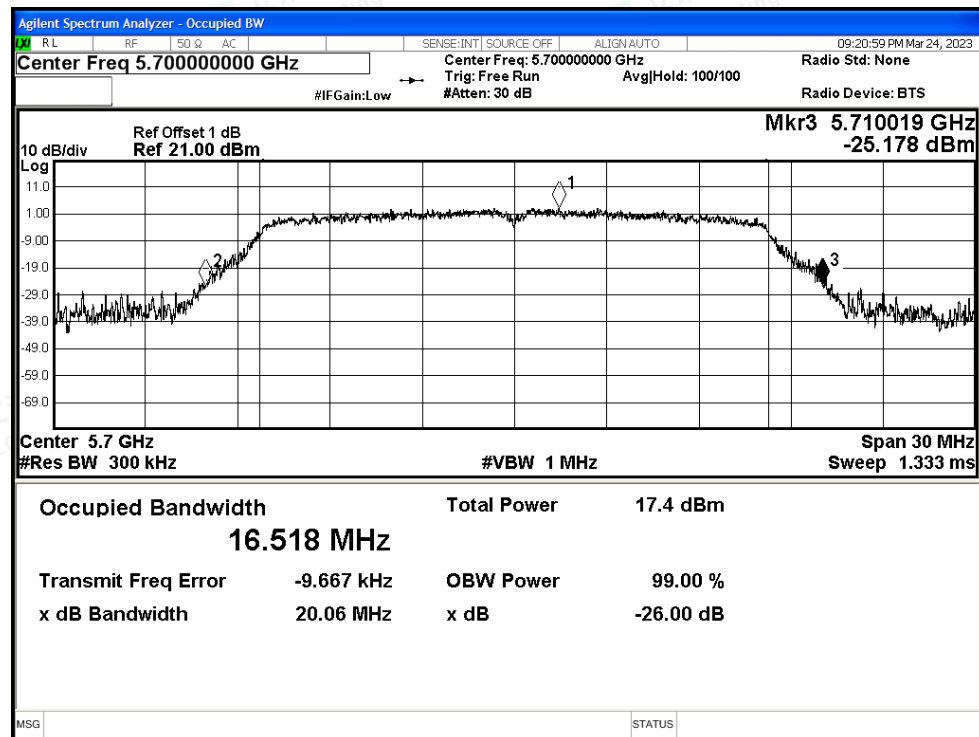
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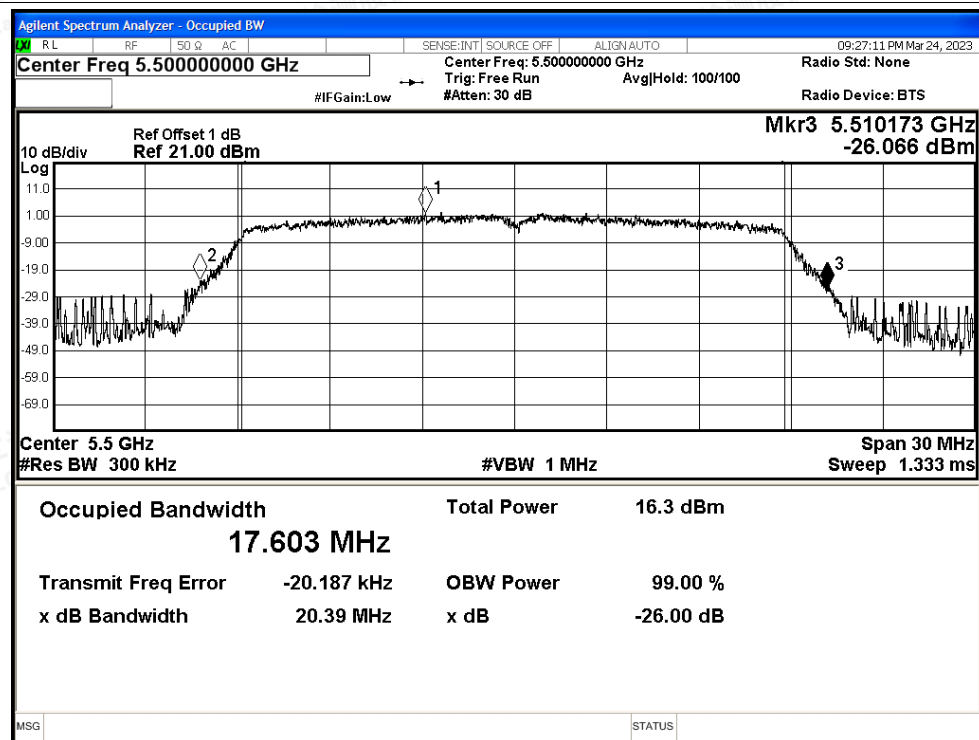
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-26dB Bandwidth NVNT a 5700MHz Ant



-26dB Bandwidth NVNT n20 5500MHz Ant



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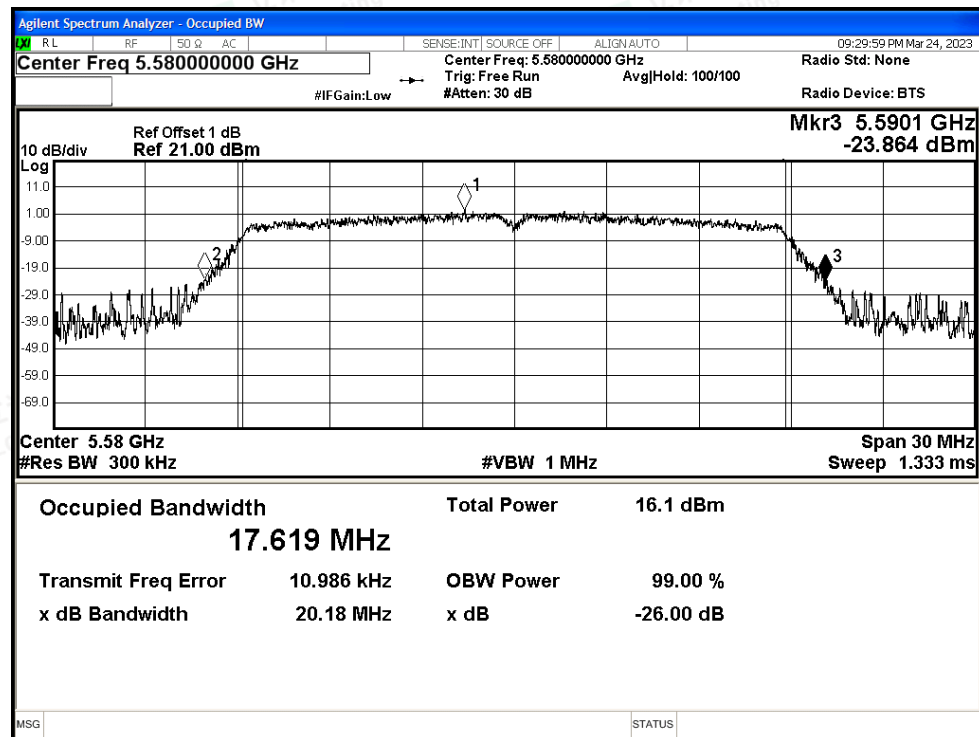
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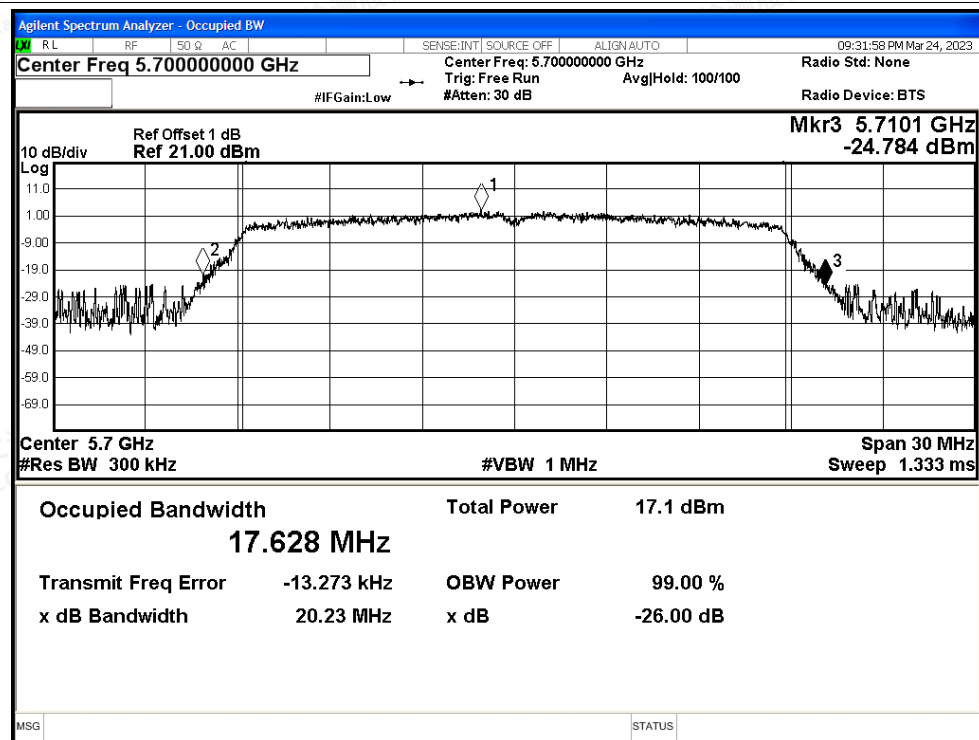
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-26dB Bandwidth NVNT n20 5580MHz Ant



-26dB Bandwidth NVNT n20 5700MHz Ant



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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	5500	Ant	10.79	0.11	10.90	24	Pass
NVNT	a	5580	Ant	10.71	0.11	10.82	24	Pass
NVNT	a	5700	Ant	11.78	0.11	11.89	24	Pass
NVNT	n20	5500	Ant	10.77	0.12	10.89	24	Pass
NVNT	n20	5580	Ant	10.46	0.12	10.58	24	Pass
NVNT	n20	5700	Ant	11.51	0.12	11.63	24	Pass



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D.3 Maximum Power Spectral Density Level

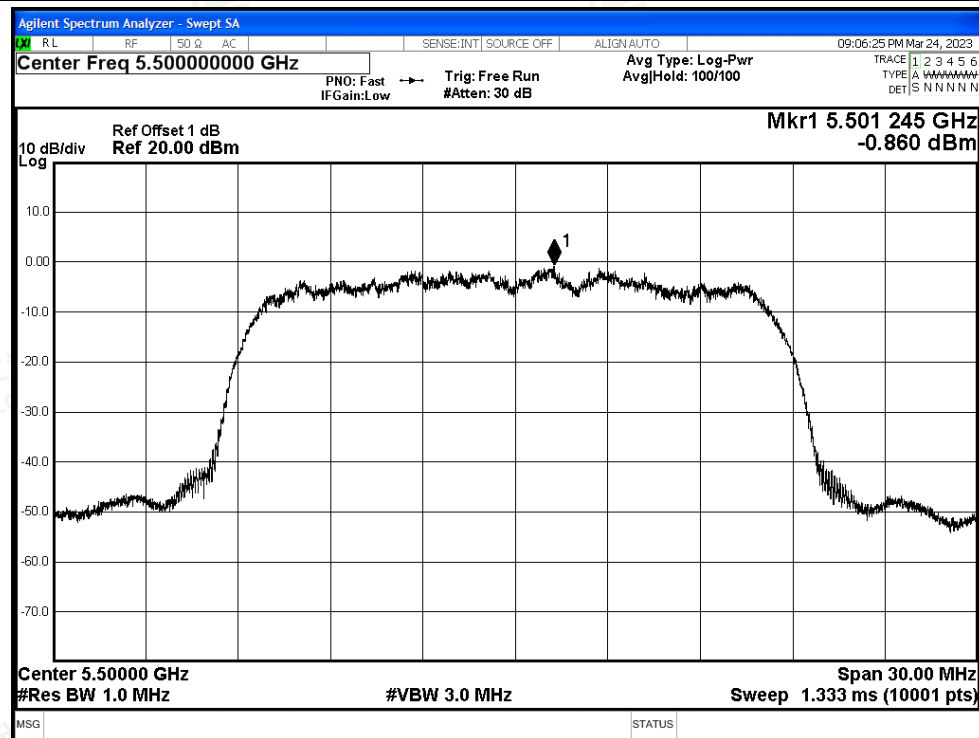
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant	-0.86	0.11	-0.75	11	Pass
NVNT	a	5580	Ant	-0.77	0.11	-0.66	11	Pass
NVNT	a	5700	Ant	-0.12	0.11	-0.01	11	Pass
NVNT	n20	5500	Ant	-1.6	0.12	-1.48	11	Pass
NVNT	n20	5580	Ant	-1.31	0.12	-1.19	11	Pass
NVNT	n20	5700	Ant	-0.22	0.12	-0.1	11	Pass



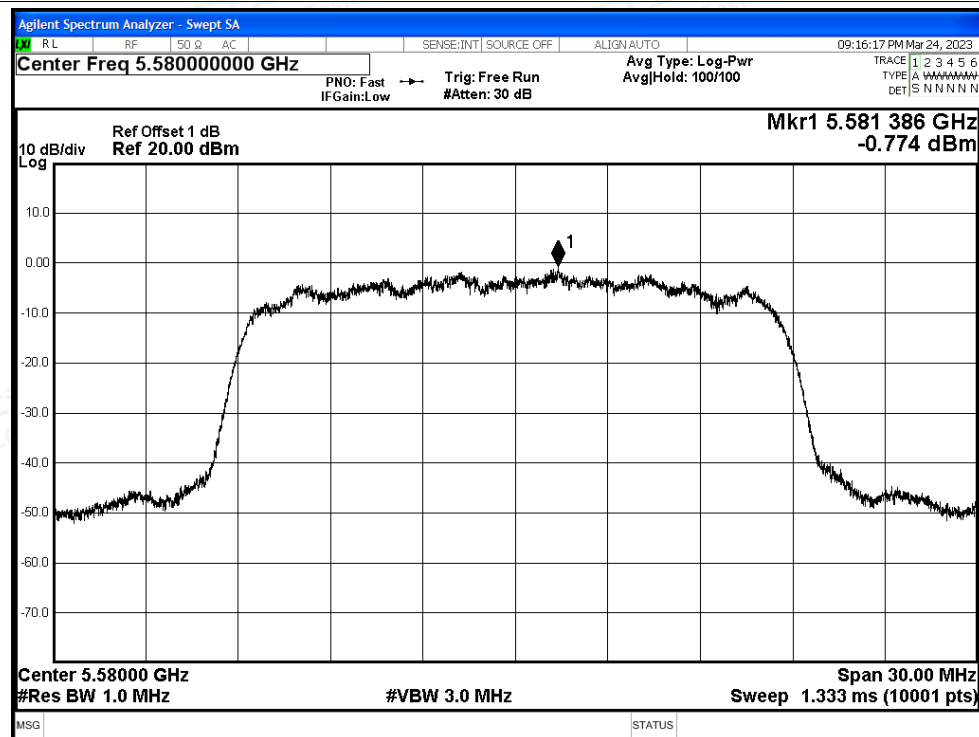


Test Graphs

PSD NVNT a 5500MHz Ant



PSD NVNT a 5580MHz Ant



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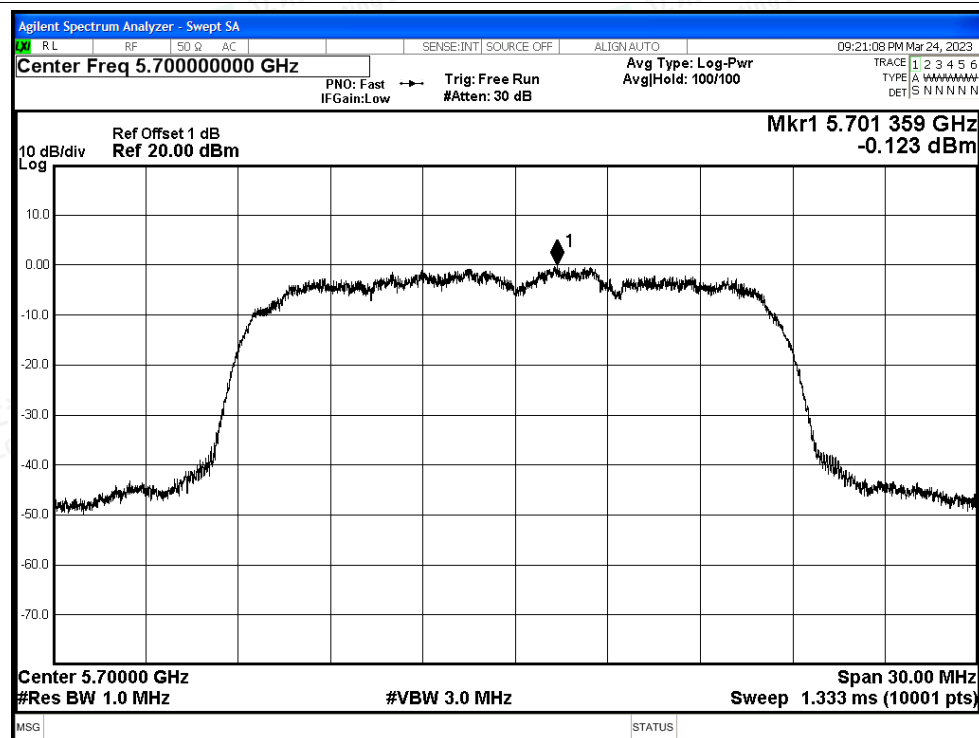
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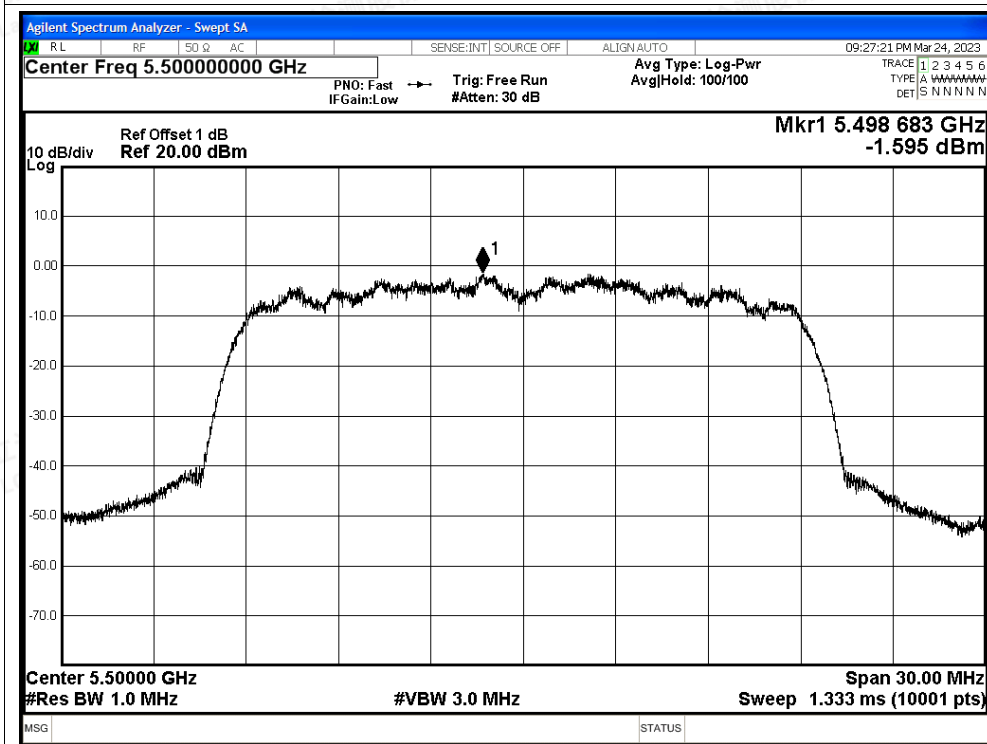
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PSD NVNT a 5700MHz Ant

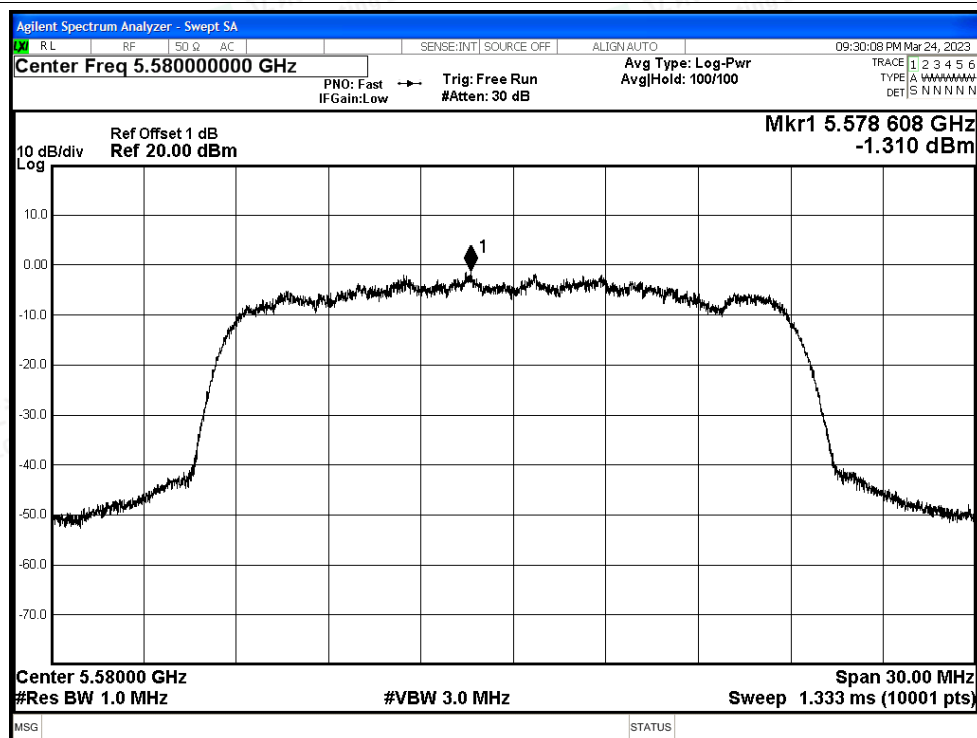


PSD NVNT n20 5500MHz Ant

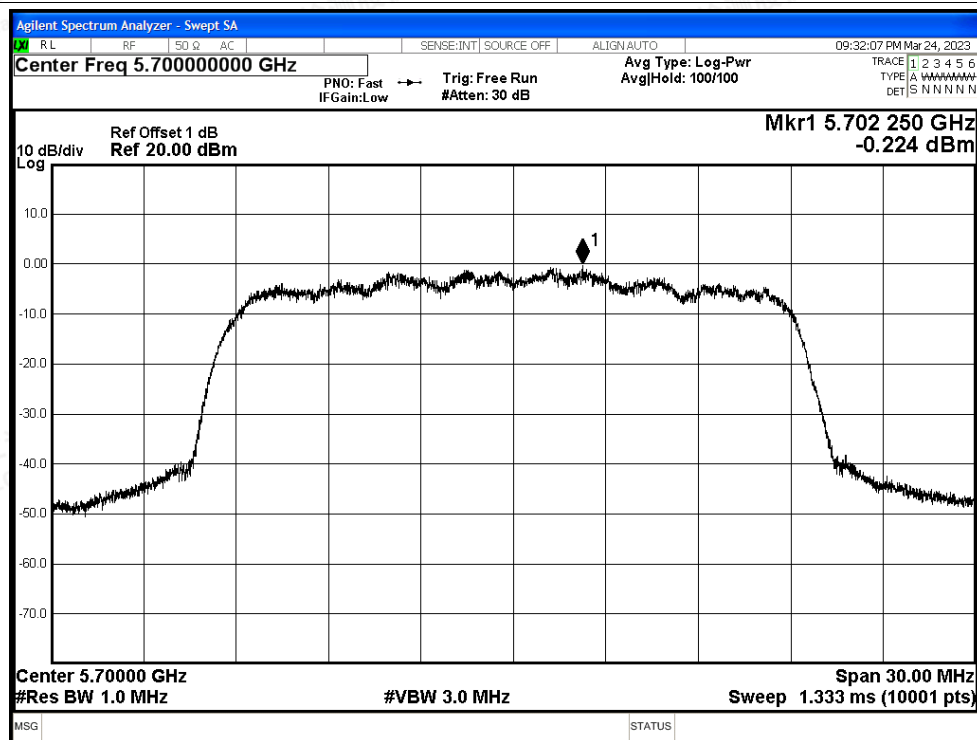




PSD NVNT n20 5580MHz Ant



PSD NVNT n20 5700MHz Ant





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	5500	Ant	5460	-46.33	2.6	51.50	Peak	74	Pass
NVNT	a	5500	Ant	5460	-56.16	2.6	41.67	Average	54	Pass
NVNT	a	5500	Ant	5469.8	-44.24	2.6	53.59	Peak	74	Pass
NVNT	a	5500	Ant	5469.8	-55.97	2.6	41.86	Average	54	Pass
NVNT	a	5500	Ant	5470	-46.61	2.6	51.22	Peak	74	Pass
NVNT	a	5500	Ant	5470	-56	2.6	41.83	Average	54	Pass
NVNT	a	5700	Ant	5725	-40.56	2.6	57.27	Peak	74	Pass
NVNT	a	5700	Ant	5725	-53.45	2.6	44.38	Average	54	Pass
NVNT	a	5700	Ant	5726.2	-37.99	2.6	59.84	Peak	74	Pass
NVNT	a	5700	Ant	5735	-45.69	2.6	52.14	Peak	74	Pass
NVNT	a	5700	Ant	5735	-55.37	2.6	42.46	Average	54	Pass
NVNT	n20	5500	Ant	5460	-46.67	2.6	51.16	Peak	74	Pass
NVNT	n20	5500	Ant	5460	-56.27	2.6	41.56	Average	54	Pass
NVNT	n20	5500	Ant	5468.4	-39.02	2.6	58.81	Peak	74	Pass
NVNT	n20	5500	Ant	5468.4	-56.01	2.6	41.82	Average	54	Pass
NVNT	n20	5500	Ant	5470	-46.55	2.6	51.28	Peak	74	Pass
NVNT	n20	5500	Ant	5470	-56.12	2.6	41.71	Average	54	Pass
NVNT	n20	5700	Ant	5725	-37.4	2.6	60.43	Peak	74	Pass
NVNT	n20	5700	Ant	5725	-53.38	2.6	44.45	Average	54	Pass
NVNT	n20	5700	Ant	5729.6	-35.27	2.6	62.56	Peak	74	Pass
NVNT	n20	5700	Ant	5735	-44.63	2.6	53.20	Peak	74	Pass
NVNT	n20	5700	Ant	5735	-55.48	2.6	42.35	Average	54	Pass

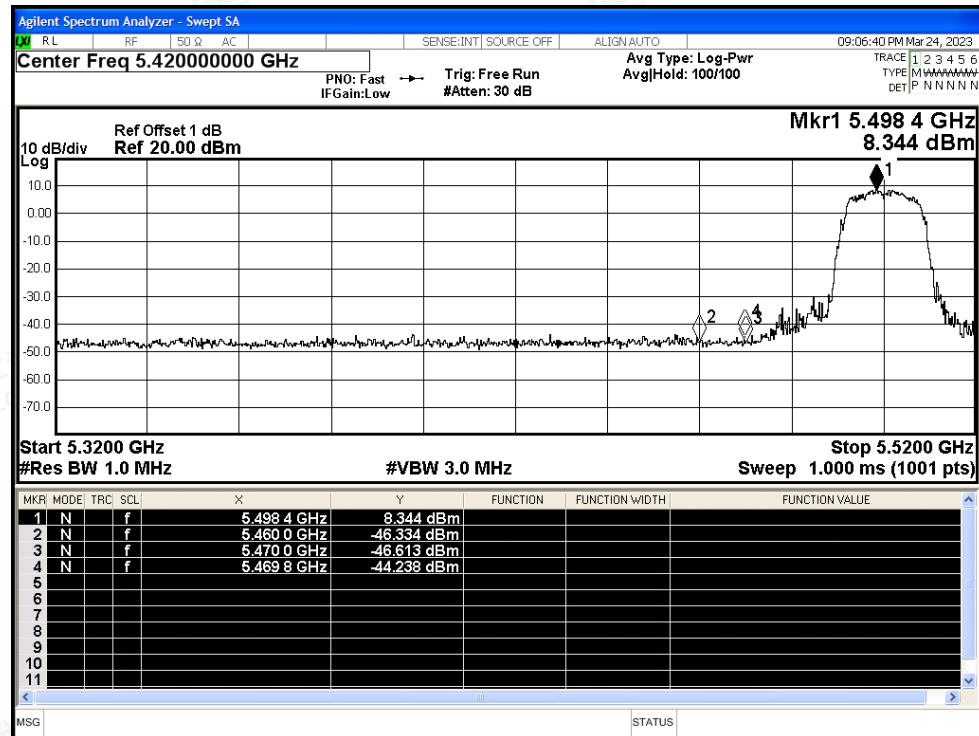


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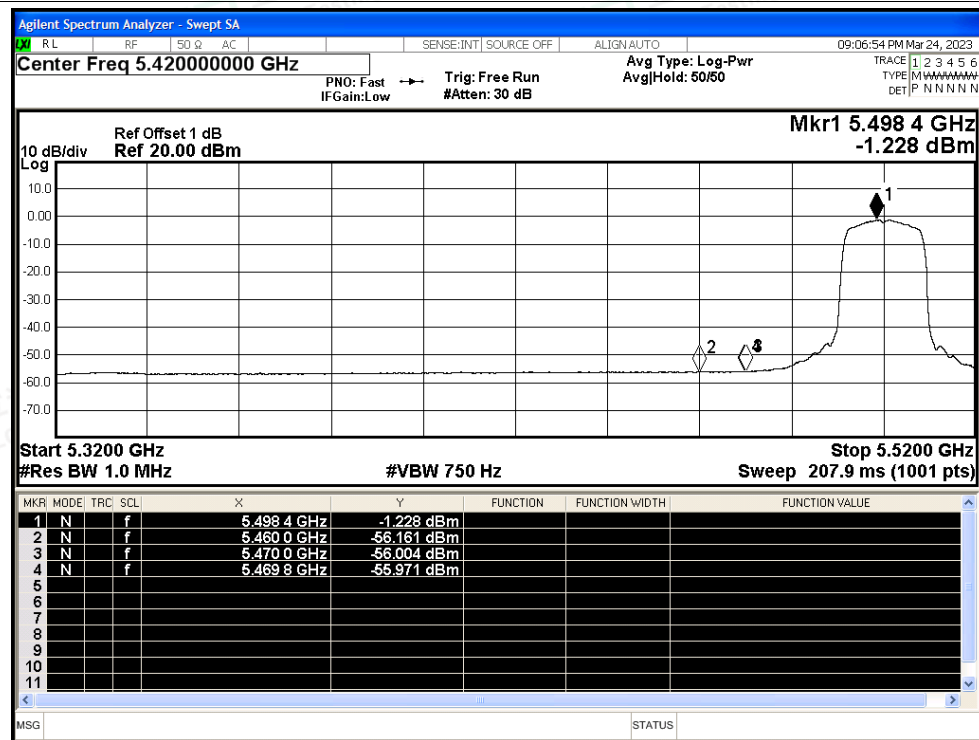


Test Graphs

Restrict Band NVNT a 5500MHz Ant Peak

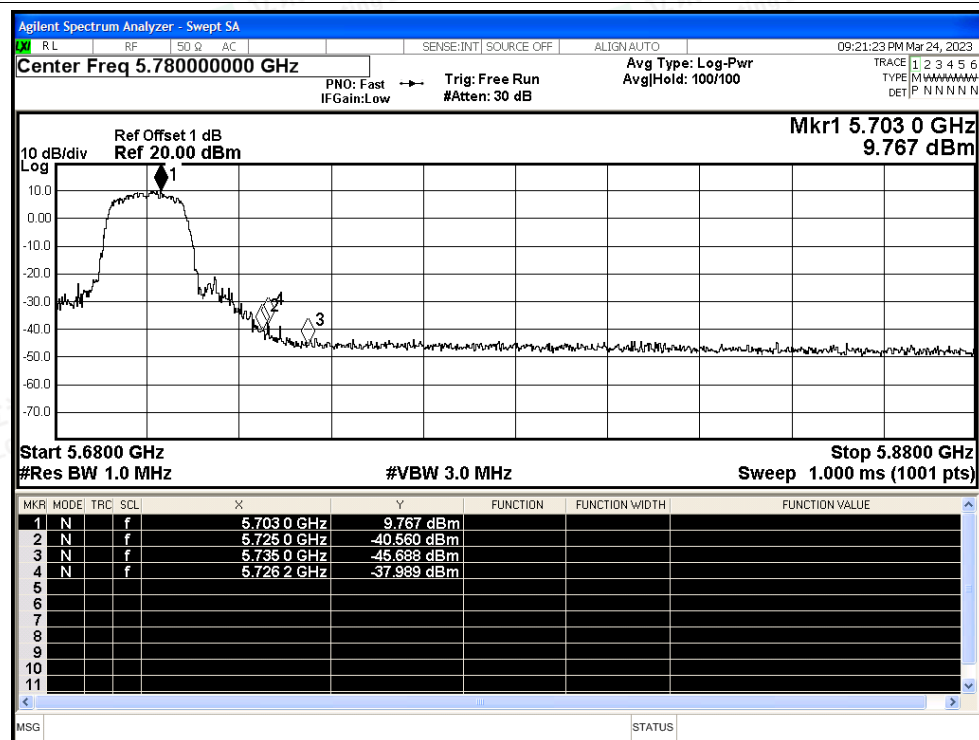


Restrict Band NVNT a 5500MHz Ant Average

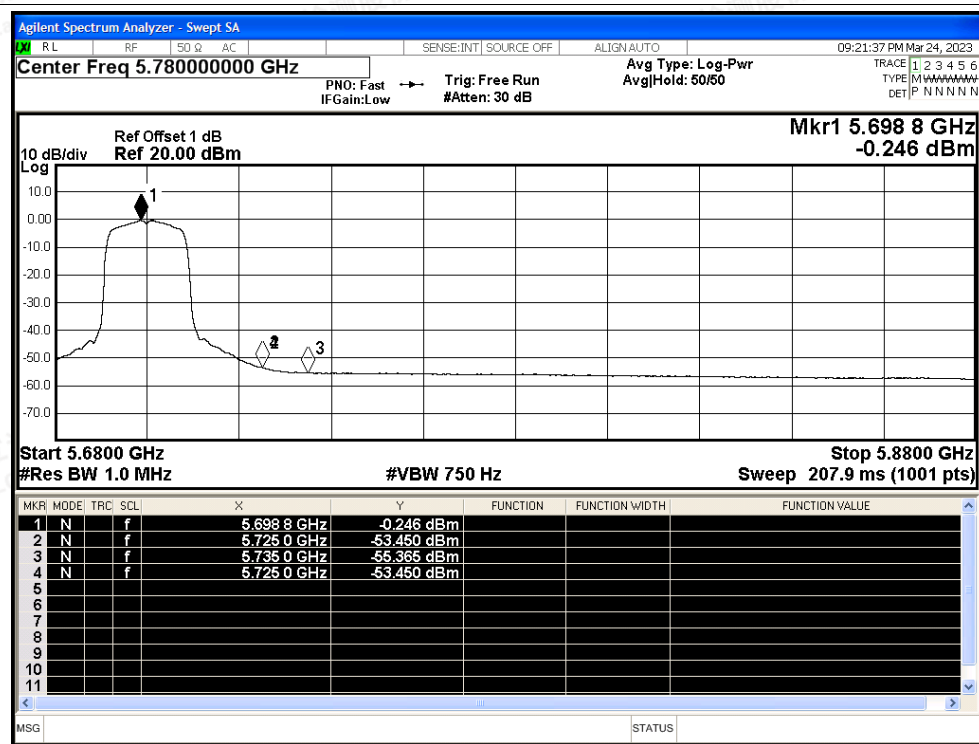




Restrict Band NVNT a 5700MHz Ant Peak

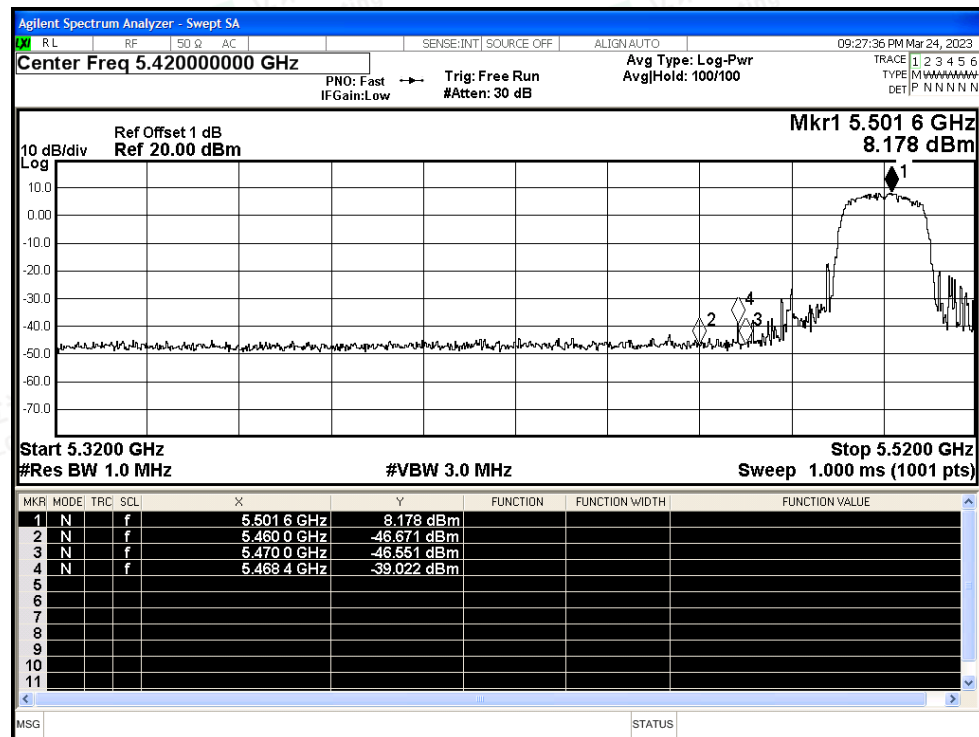


Restrict Band NVNT a 5700MHz Ant Average

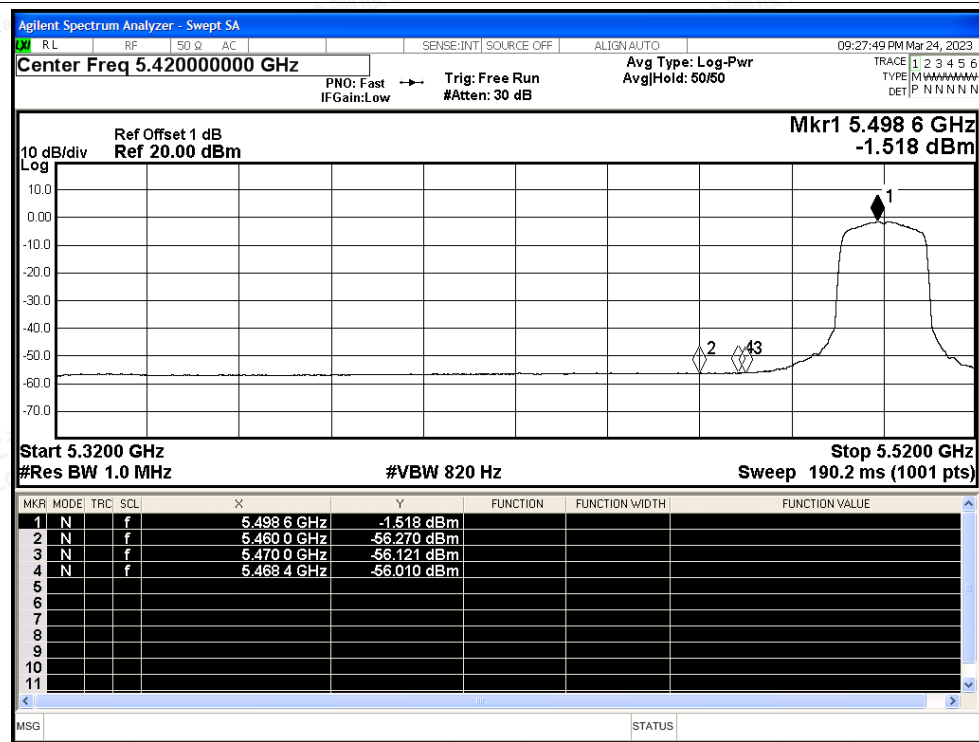




Restrict Band NVNT n20 5500MHz Ant Peak

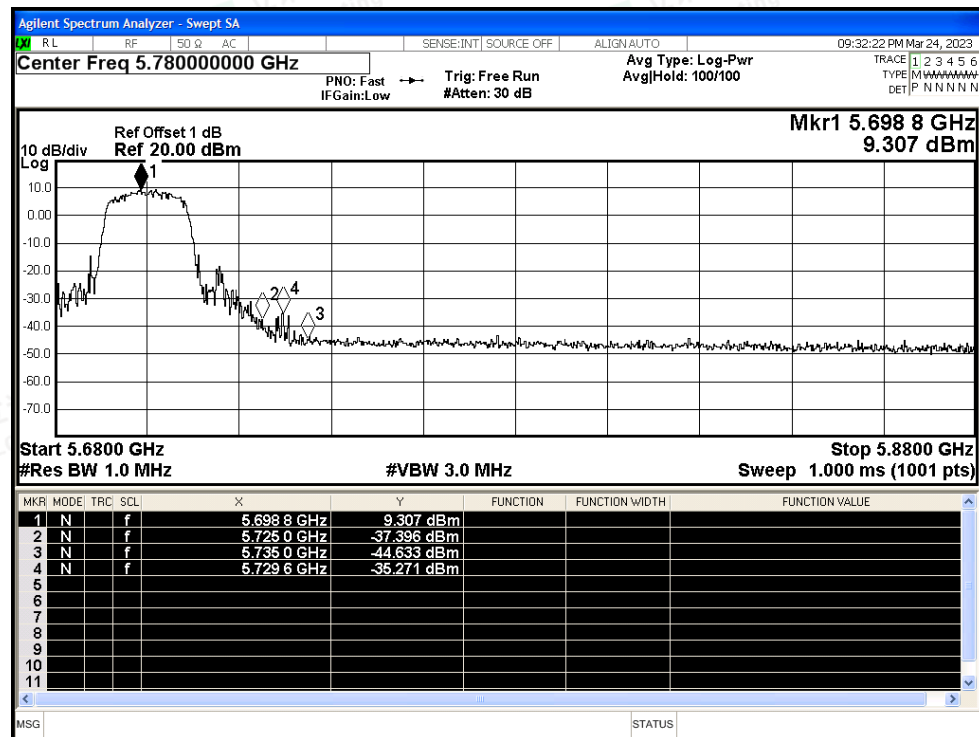


Restrict Band NVNT n20 5500MHz Ant Average

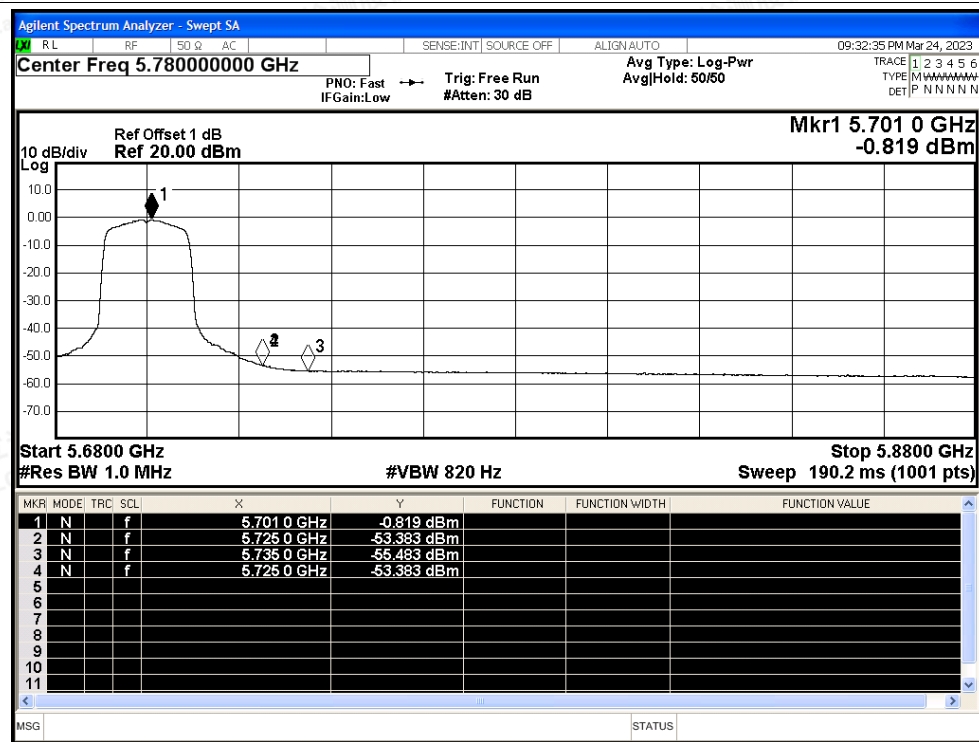




Restrict Band NVNT n20 5700MHz Ant Peak



Restrict Band NVNT n20 5700MHz Ant Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5500	Ant	5500.02	20000	3.64	25	Pass
NVNT	n20	5580	Ant	5580	0	0	25	Pass
NVNT	n20	5700	Ant	5699.98	-20000	-3.51	25	Pass

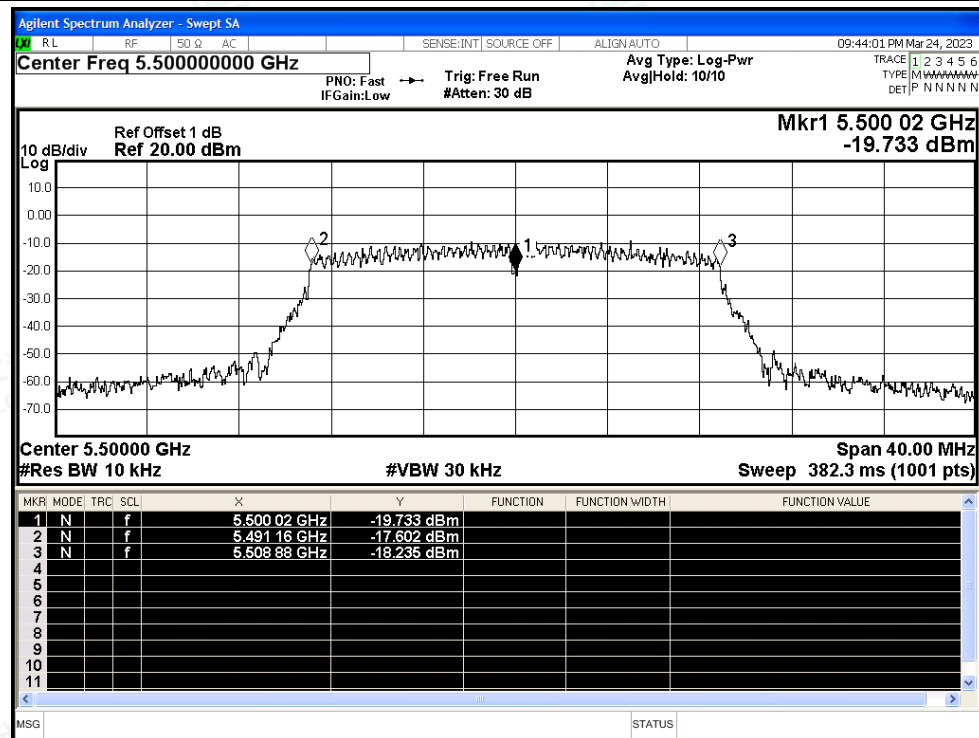


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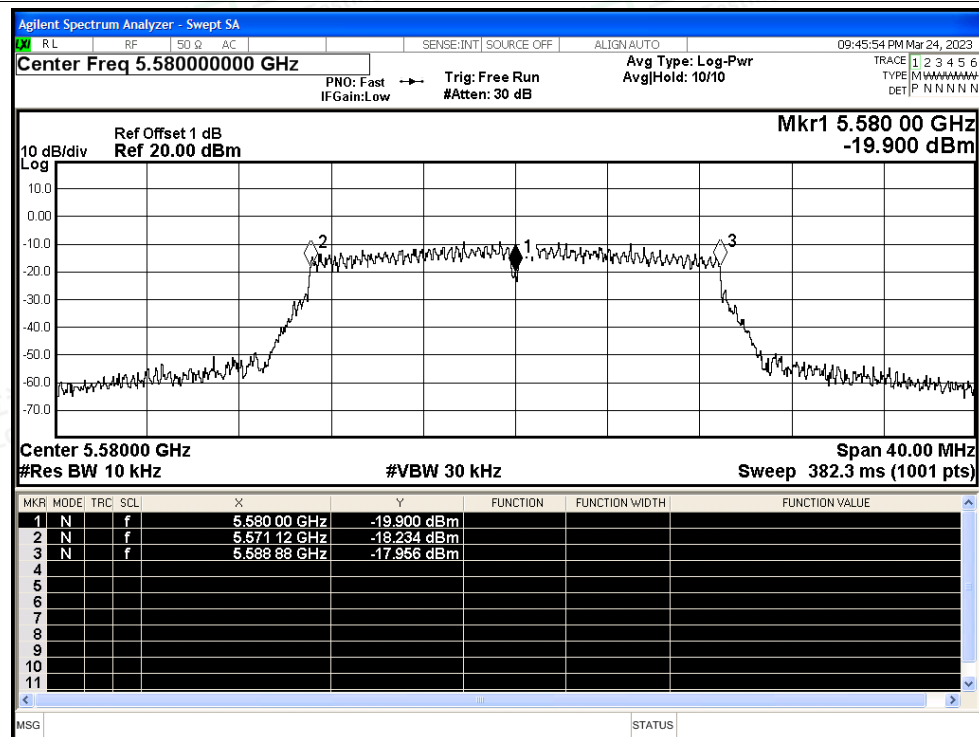


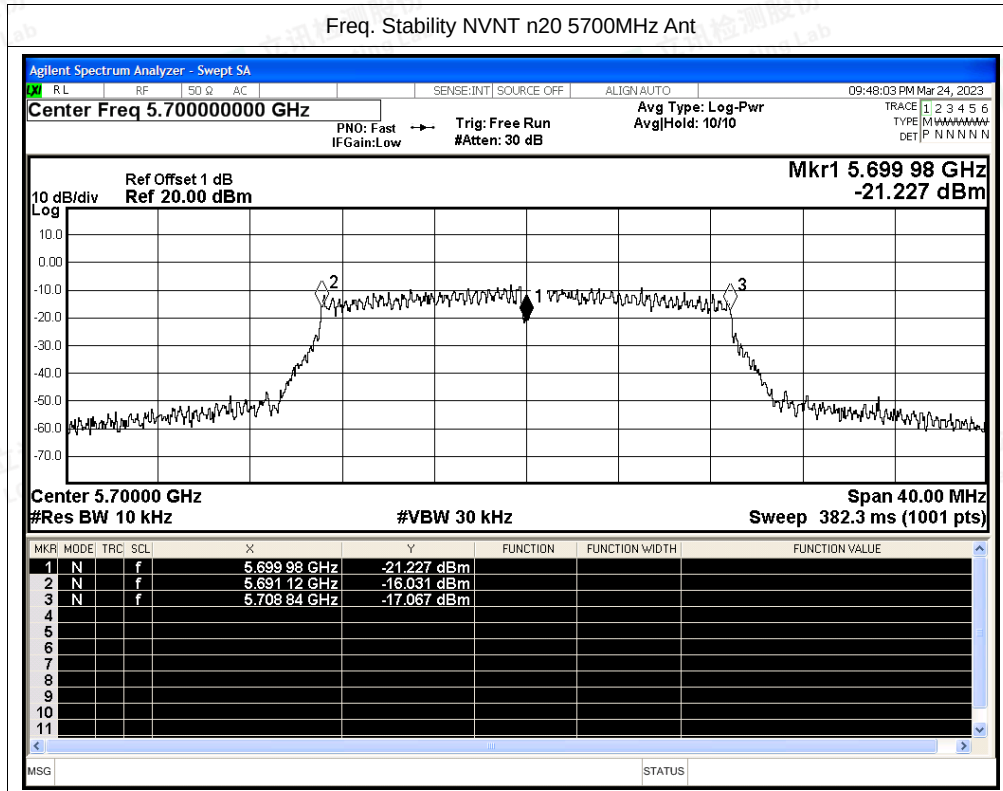
Test Graphs

Freq. Stability NVNT n20 5500MHz Ant



Freq. Stability NVNT n20 5580MHz Ant





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D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant	97.55	0.11	0.72
NVNT	a	5580	Ant	97.55	0.11	0.72
NVNT	a	5700	Ant	97.55	0.11	0.72
NVNT	n20	5500	Ant	97.31	0.12	0.77
NVNT	n20	5580	Ant	97.31	0.12	0.77
NVNT	n20	5700	Ant	97.31	0.12	0.77

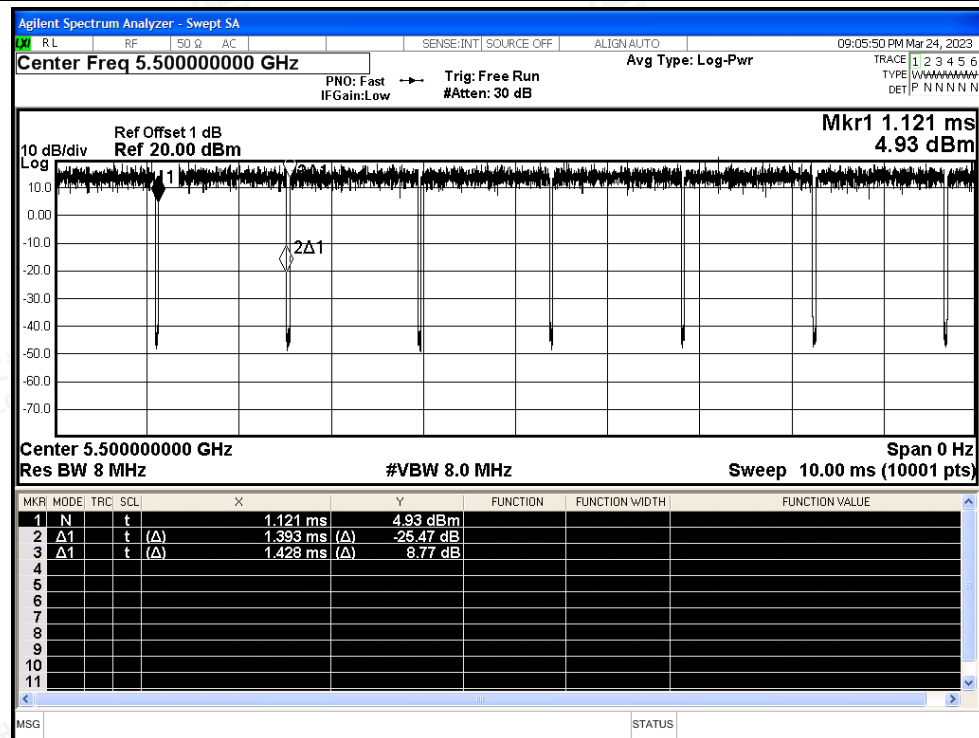


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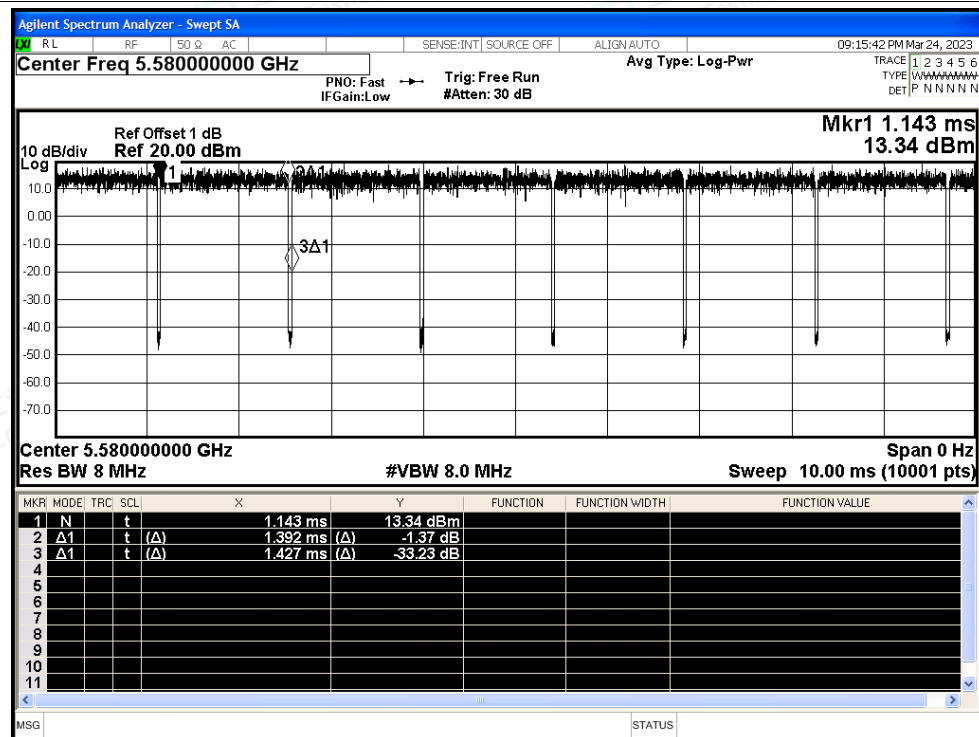


Test Graphs

Duty Cycle NVNT a 5500MHz Ant



Duty Cycle NVNT a 5580MHz Ant



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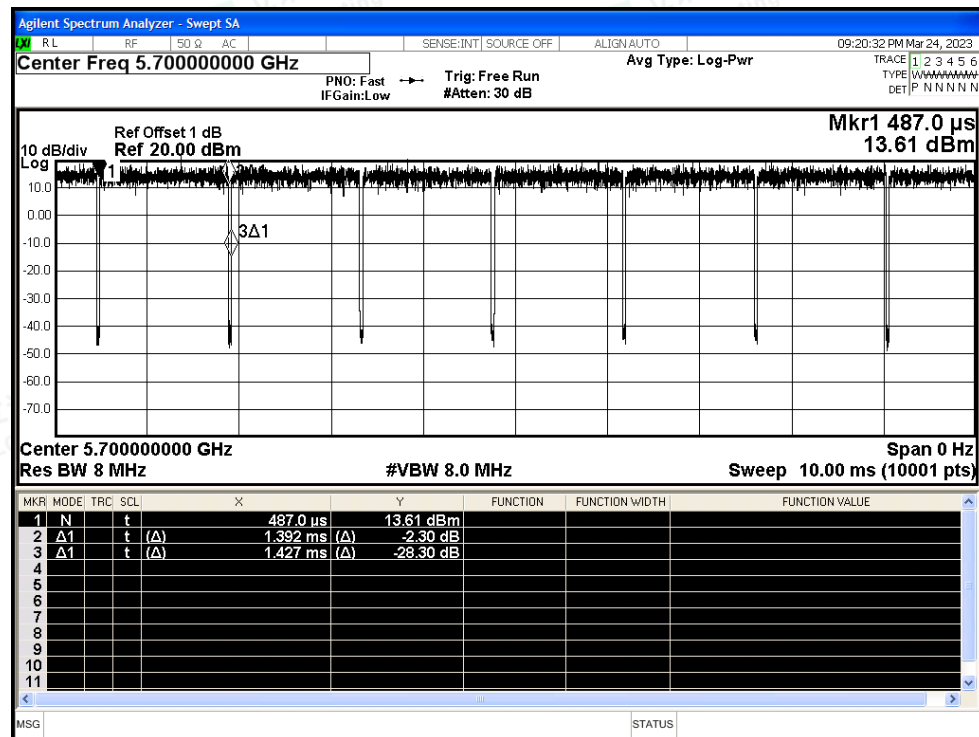
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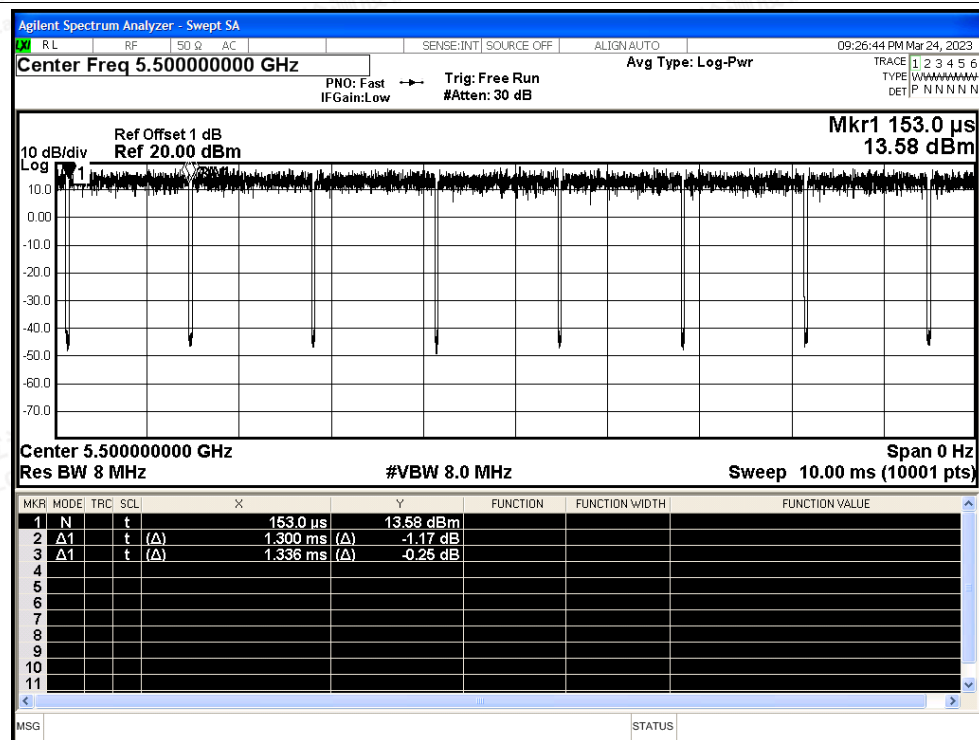
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Duty Cycle NVNT a 5700MHz Ant

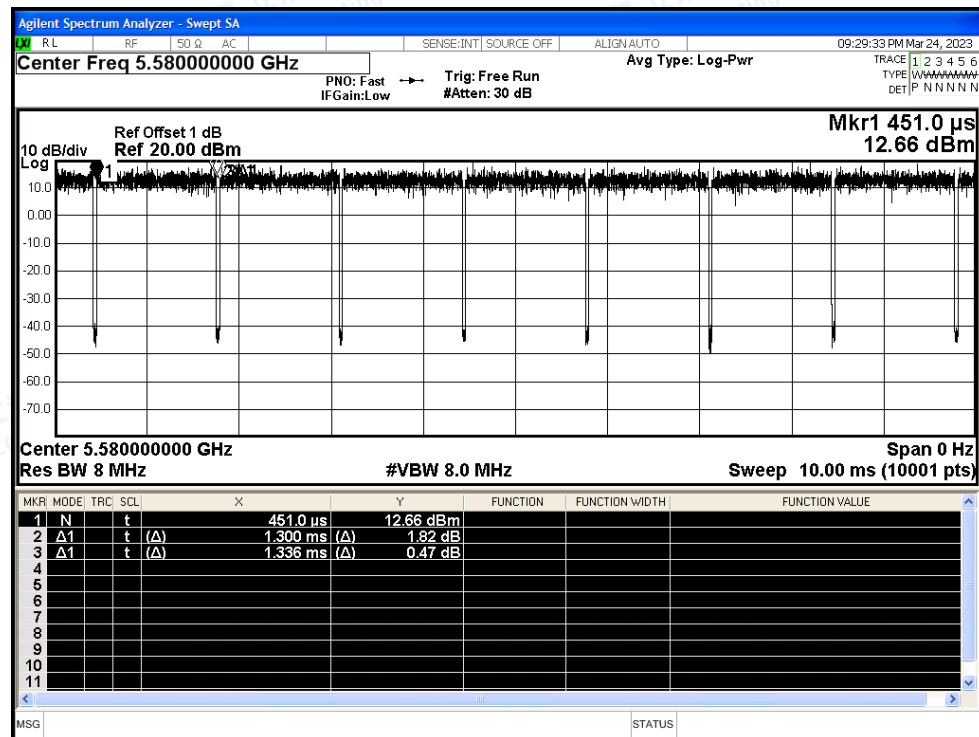


Duty Cycle NVNT n20 5500MHz Ant





Duty Cycle NVNT n20 5580MHz Ant



Duty Cycle NVNT n20 5700MHz Ant

