



Appendix C

RF Test Data for 5.3GWIFI (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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C.1 -26dB Bandwidth

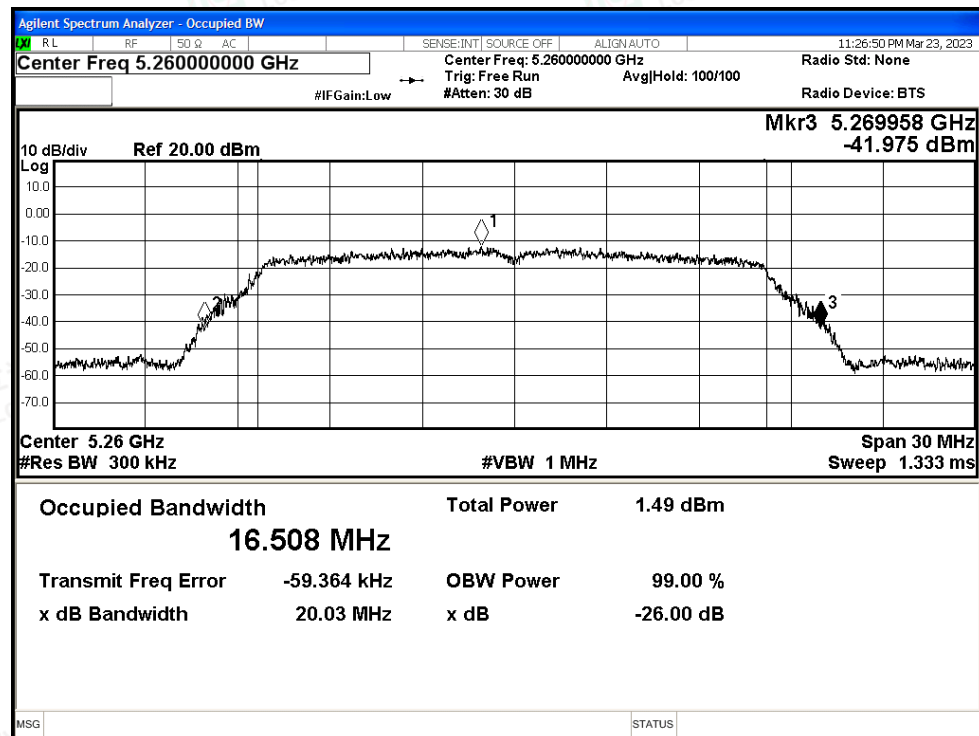
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant	20.034	0.5	Pass
NVNT	a	5300	Ant	20.079	0.5	Pass
NVNT	a	5320	Ant	19.942	0.5	Pass
NVNT	n20	5260	Ant	20.367	0.5	Pass
NVNT	n20	5300	Ant	20.071	0.5	Pass
NVNT	n20	5320	Ant	20.491	0.5	Pass



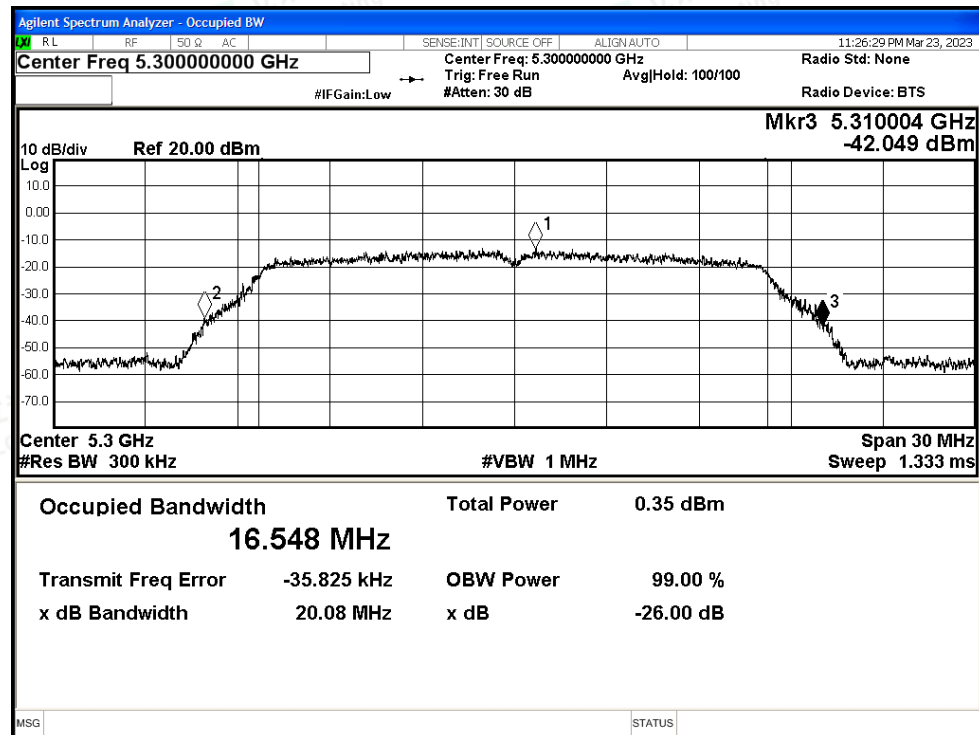


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant



-26dB Bandwidth NVNT a 5300MHz Ant



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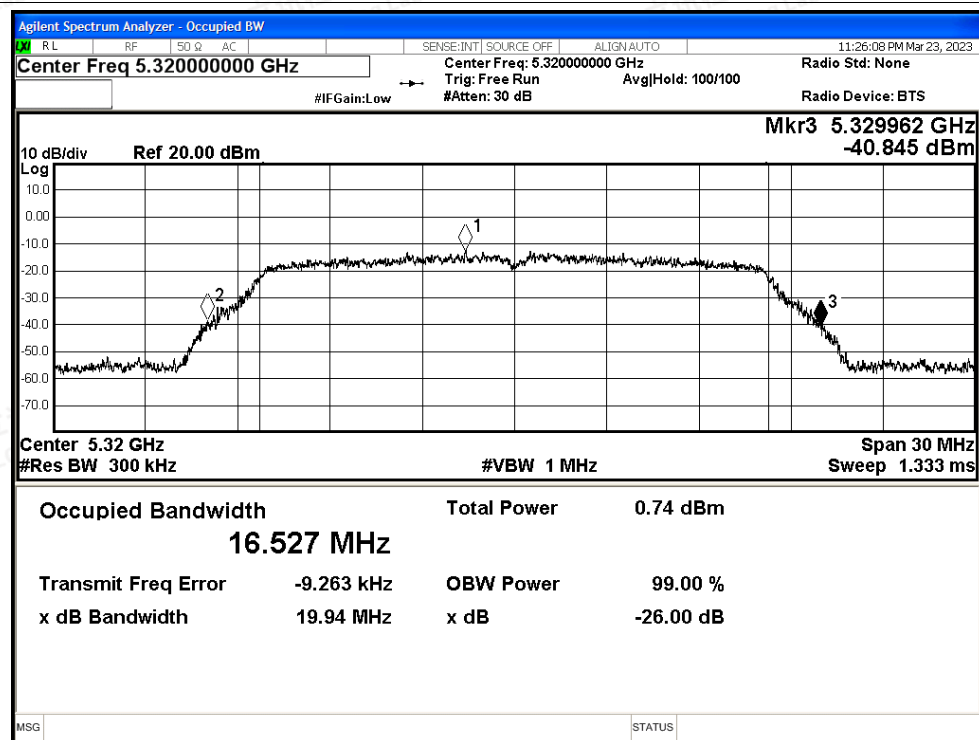
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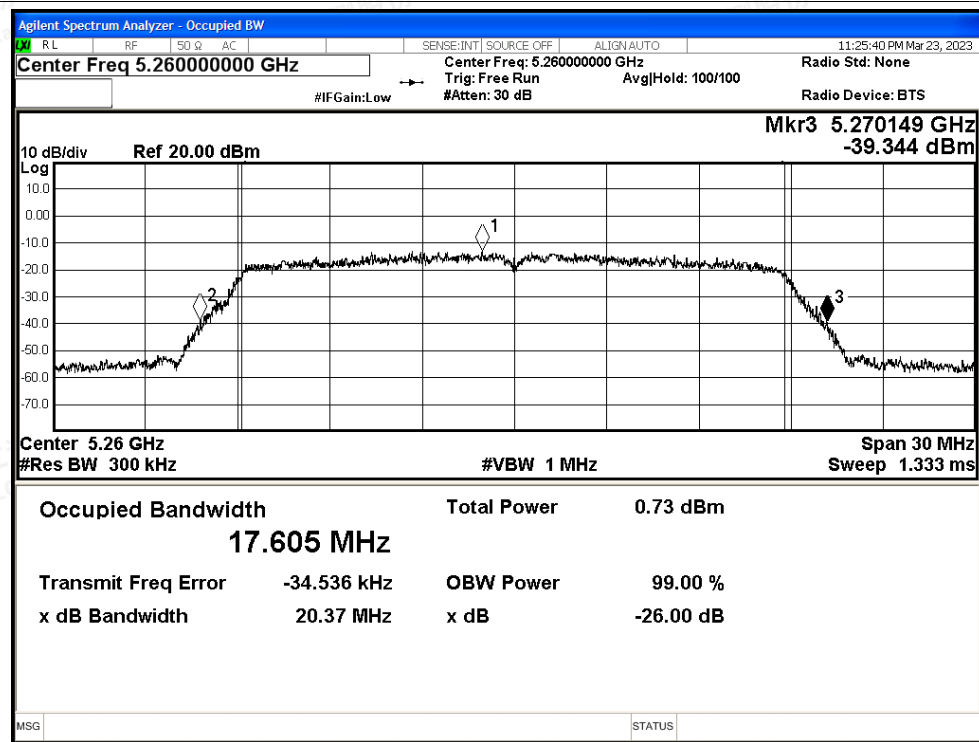
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-26dB Bandwidth NVNT a 5320MHz Ant



-26dB Bandwidth NVNT n20 5260MHz Ant



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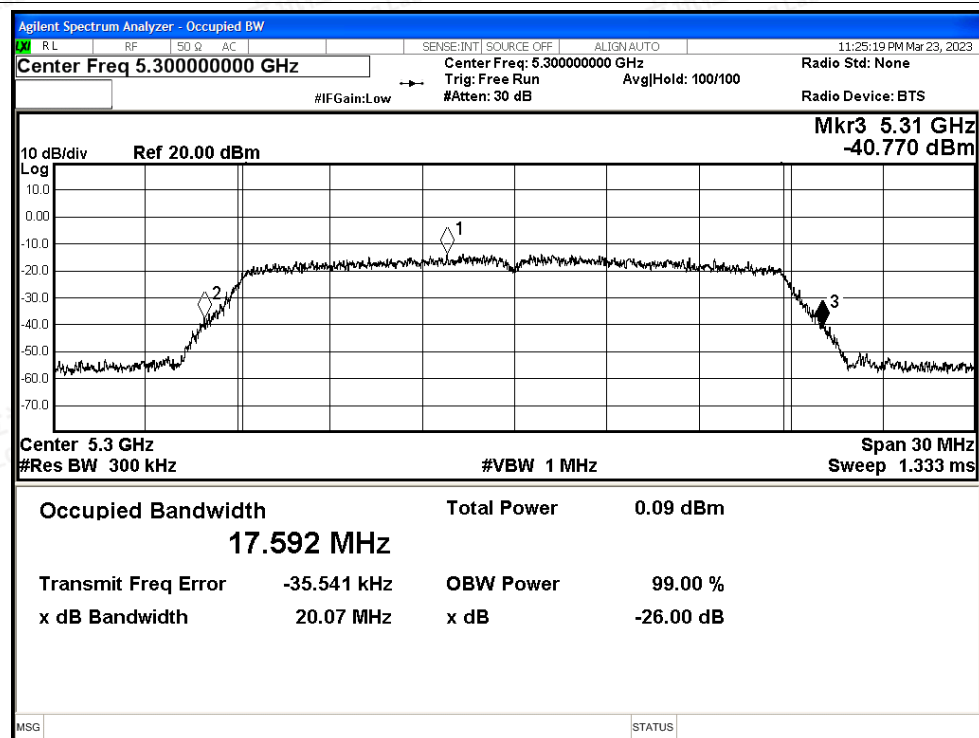
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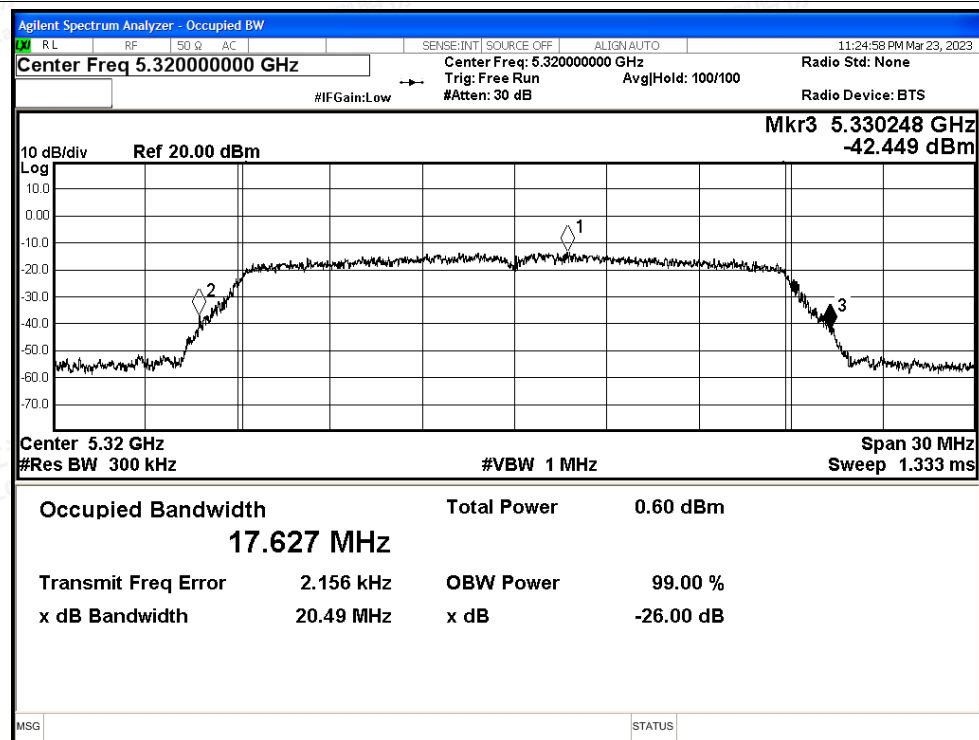
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-26dB Bandwidth NVNT n20 5300MHz Ant



-26dB Bandwidth NVNT n20 5320MHz Ant



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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant	11.73	0.13	11.86	24	Pass
NVNT	a	5300	Ant	11.26	0.13	11.39	24	Pass
NVNT	a	5320	Ant	11.53	0.13	11.66	24	Pass
NVNT	n20	5260	Ant	11.43	0.14	11.57	24	Pass
NVNT	n20	5300	Ant	11.14	0.14	11.28	24	Pass
NVNT	n20	5320	Ant	11.57	0.14	11.71	24	Pass



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C.3 Maximum Power Spectral Density Level

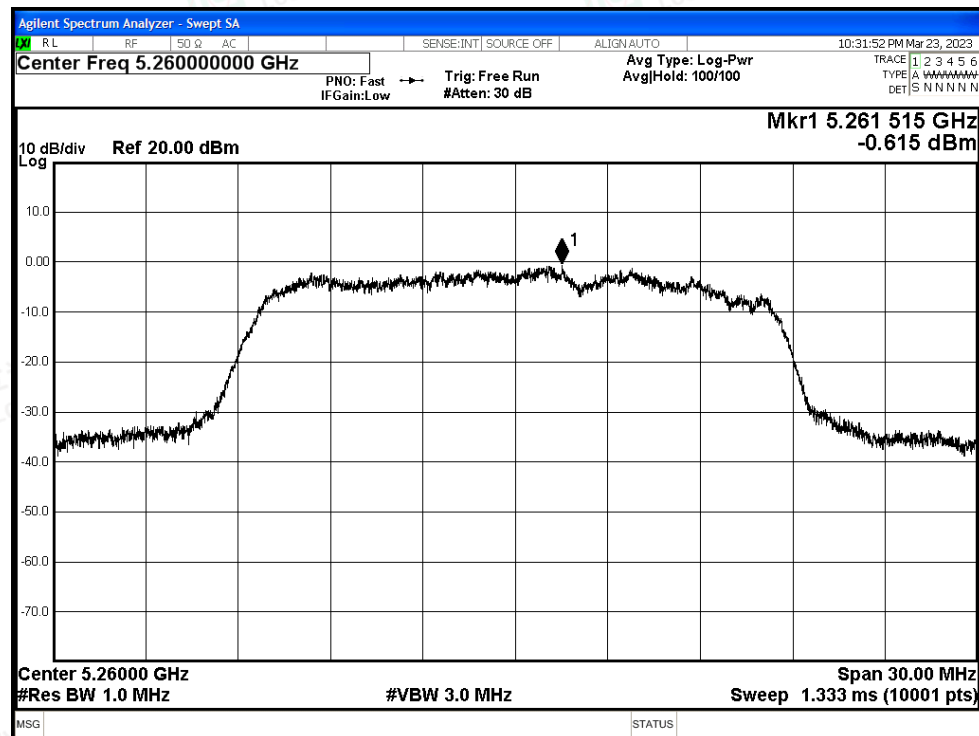
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant	-0.62	0.13	-0.49	11	Pass
NVNT	a	5300	Ant	-0.53	0.13	-0.4	11	Pass
NVNT	a	5320	Ant	-0.96	0.13	-0.83	11	Pass
NVNT	n20	5260	Ant	-0.89	0.14	-0.75	11	Pass
NVNT	n20	5300	Ant	-1.11	0.14	-0.97	11	Pass
NVNT	n20	5320	Ant	-0.93	0.14	-0.79	11	Pass



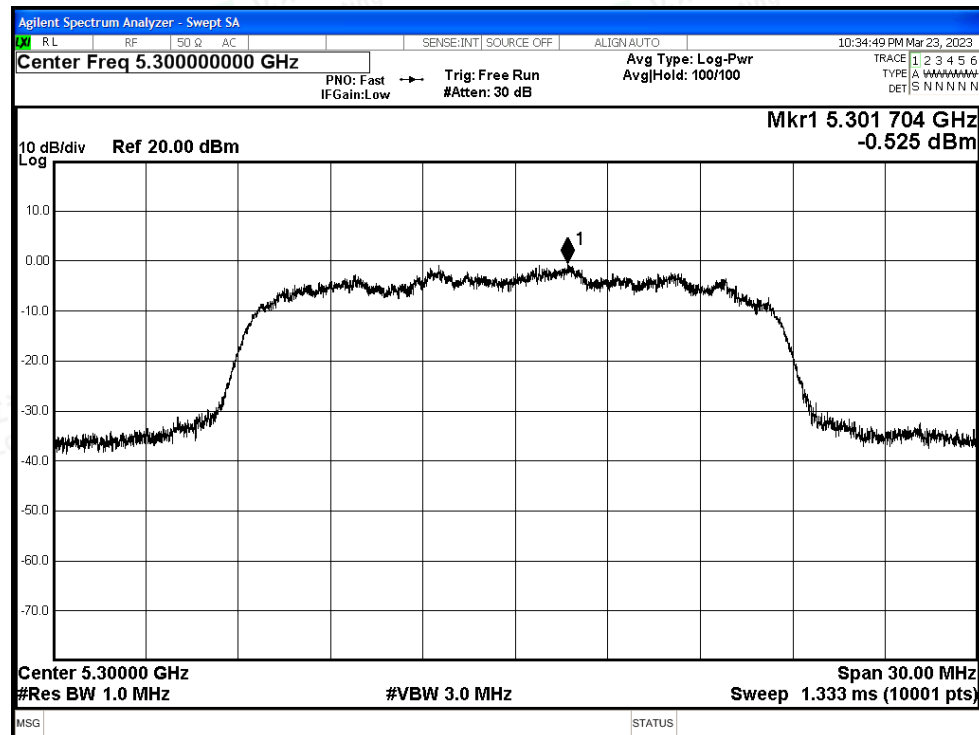


Test Graphs

PSD NVNT a 5260MHz Ant

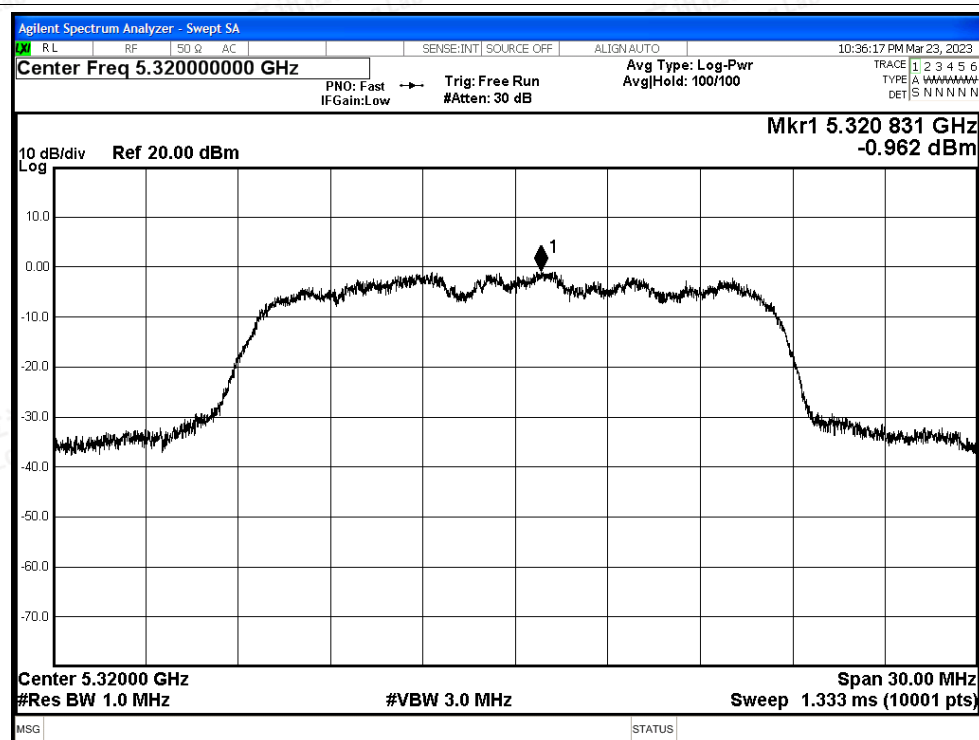


PSD NVNT a 5300MHz Ant

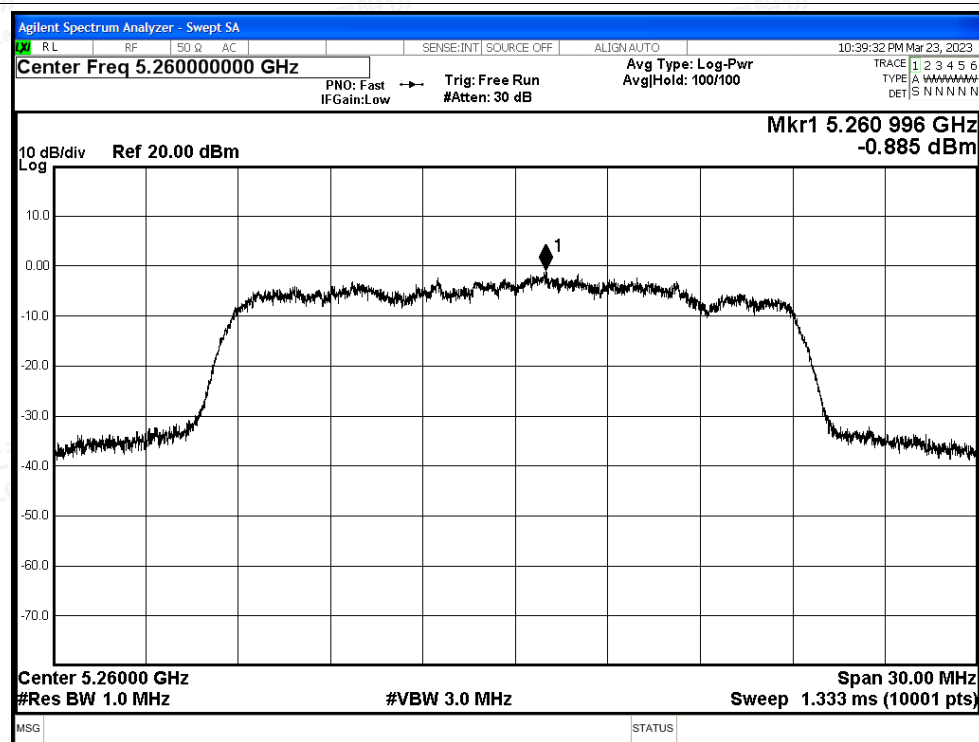


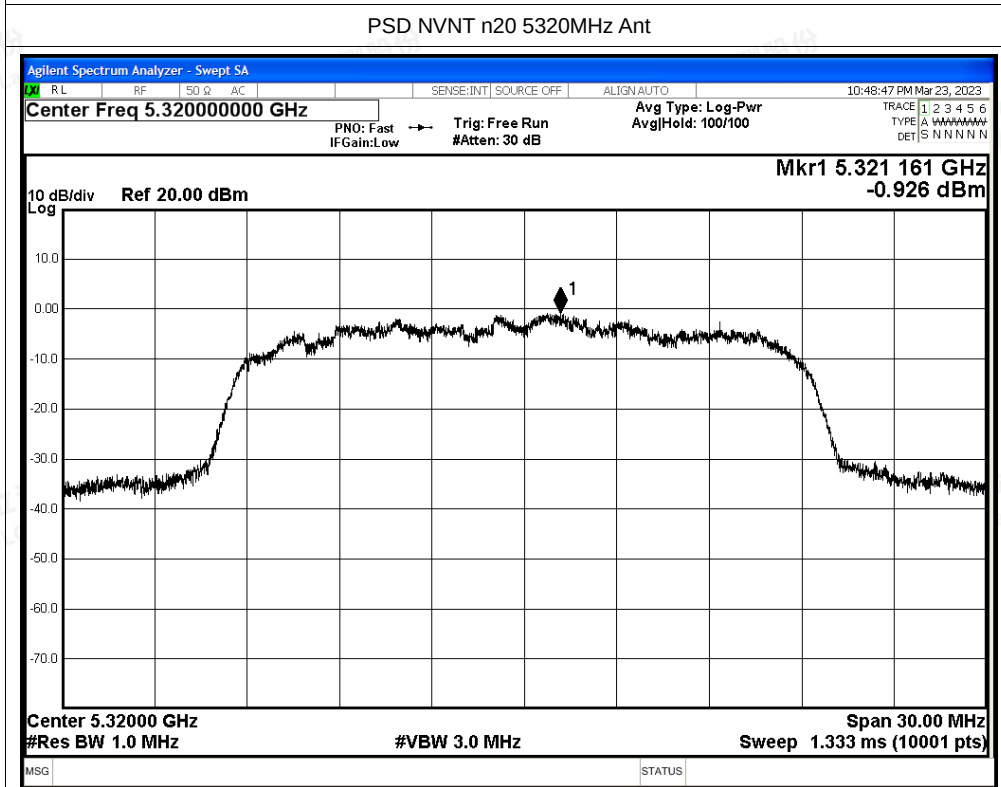
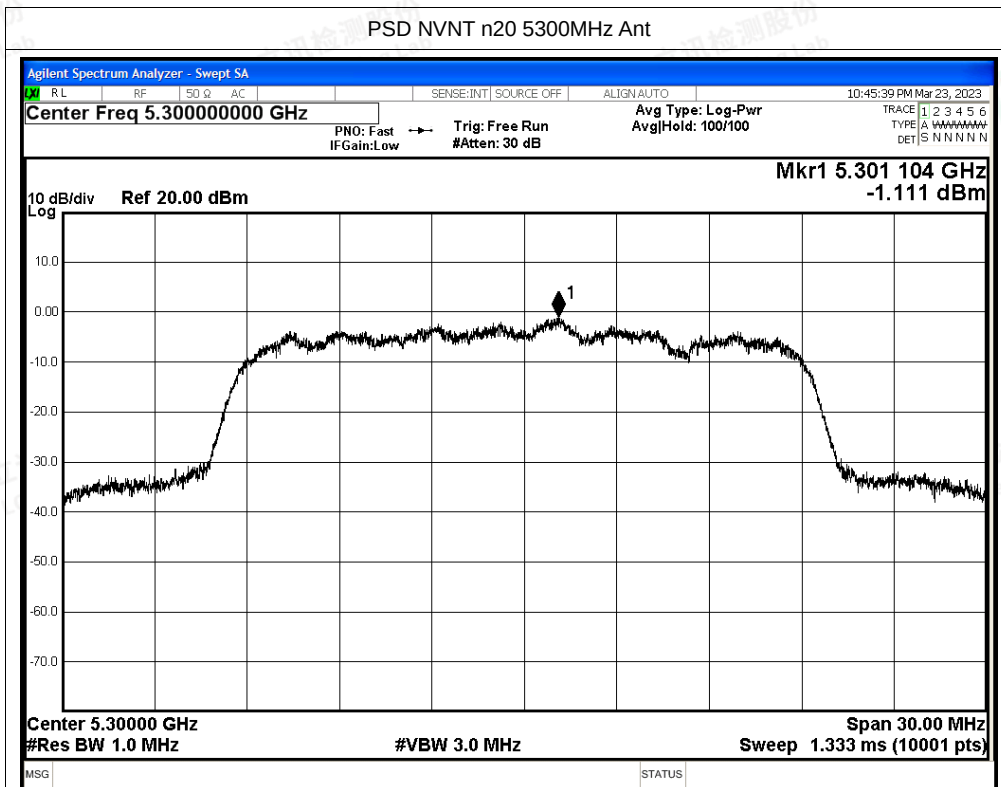


PSD NVNT a 5320MHz Ant



PSD NVNT n20 5260MHz Ant







C.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	5260	Ant	4500	-51.33	2.6	46.50	Peak	74	Pass
NVNT	a	5260	Ant	4500	-60.74	2.6	37.09	Average	54	Pass
NVNT	a	5260	Ant	5085.78	-45.58	2.6	52.25	Peak	74	Pass
NVNT	a	5260	Ant	5149.74	-57.68	2.6	40.15	Average	54	Pass
NVNT	a	5260	Ant	5150	-48.54	2.6	49.29	Peak	74	Pass
NVNT	a	5260	Ant	5150	-57.68	2.6	40.15	Average	54	Pass
NVNT	a	5320	Ant	5350	-34.8	2.6	63.03	Peak	74	Pass
NVNT	a	5320	Ant	5350	-47.91	2.6	49.92	Average	54	Pass
NVNT	a	5320	Ant	5350.2	-30.2	2.6	67.63	Peak	74	Pass
NVNT	a	5320	Ant	5460	-50.1	2.6	47.73	Peak	74	Pass
NVNT	a	5320	Ant	5460	-59.4	2.6	38.43	Average	54	Pass
NVNT	n20	5260	Ant	4500	-50.91	2.6	46.92	Peak	74	Pass
NVNT	n20	5260	Ant	4500	-60.65	2.6	37.18	Average	54	Pass
NVNT	n20	5260	Ant	5087.34	-45.72	2.6	52.11	Peak	74	Pass
NVNT	n20	5260	Ant	5149.74	-57.55	2.6	40.28	Average	54	Pass
NVNT	n20	5260	Ant	5150	-48.46	2.6	49.37	Peak	74	Pass
NVNT	n20	5260	Ant	5150	-57.55	2.6	40.28	Average	54	Pass
NVNT	n20	5320	Ant	5350	-36.41	2.6	61.42	Peak	74	Pass
NVNT	n20	5320	Ant	5350	-47.52	2.6	50.31	Average	54	Pass
NVNT	n20	5320	Ant	5352.2	-31.51	2.6	66.32	Peak	74	Pass
NVNT	n20	5320	Ant	5460	-50.5	2.6	47.33	Peak	74	Pass
NVNT	n20	5320	Ant	5460	-59.16	2.6	40.28	Average	54	Pass

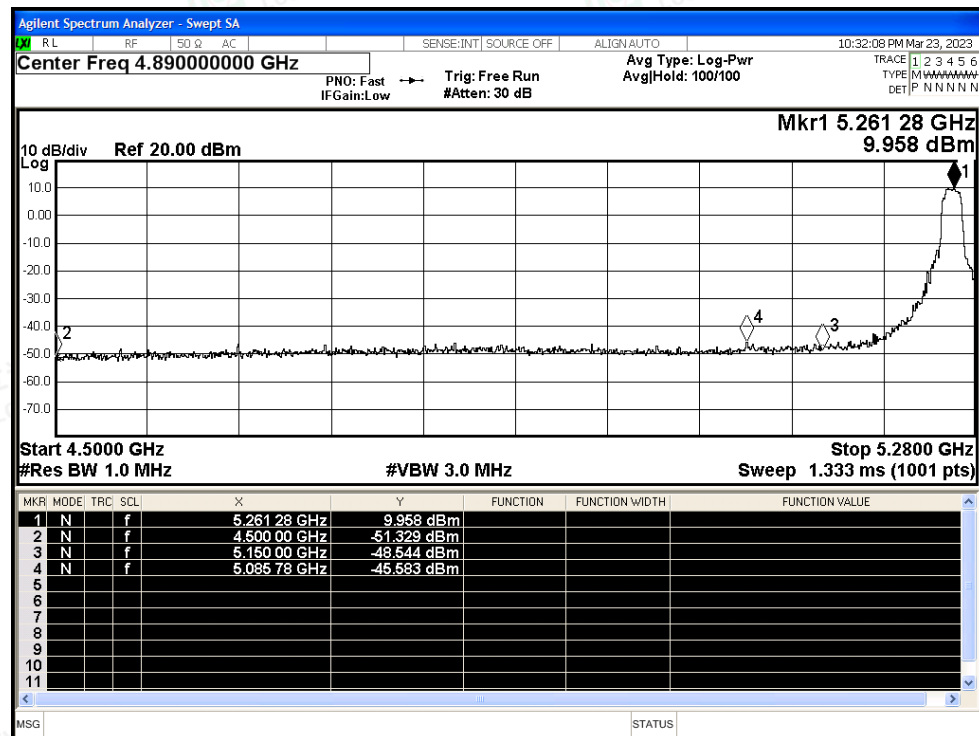


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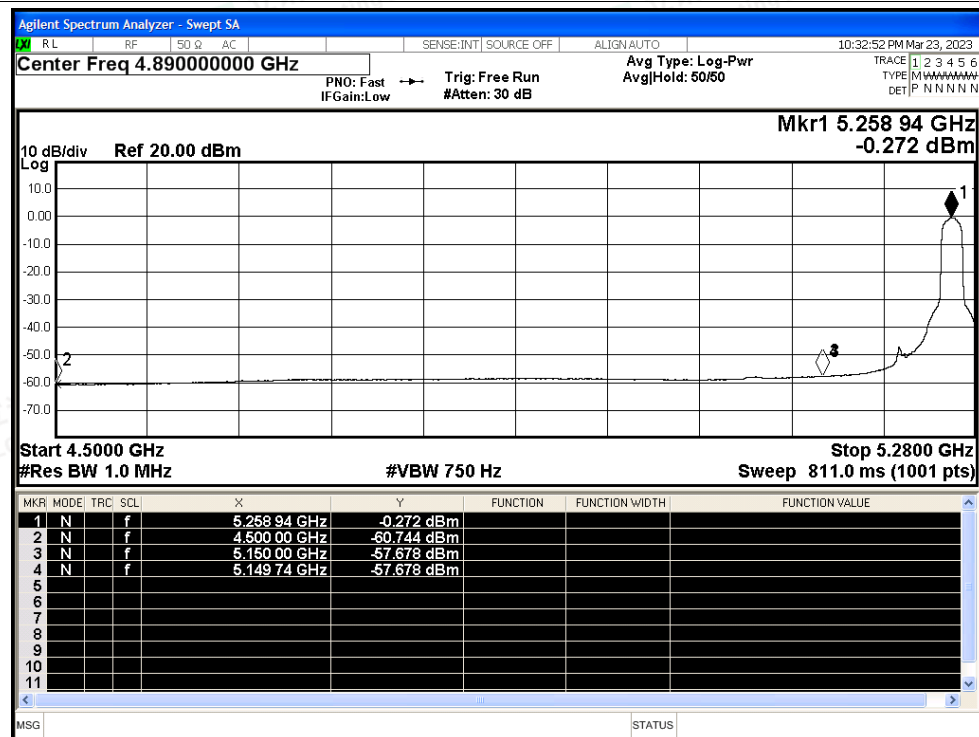


Test Graphs

Restrict Band NVNT a 5260MHz Ant Peak



Restrict Band NVNT a 5260MHz Ant Average



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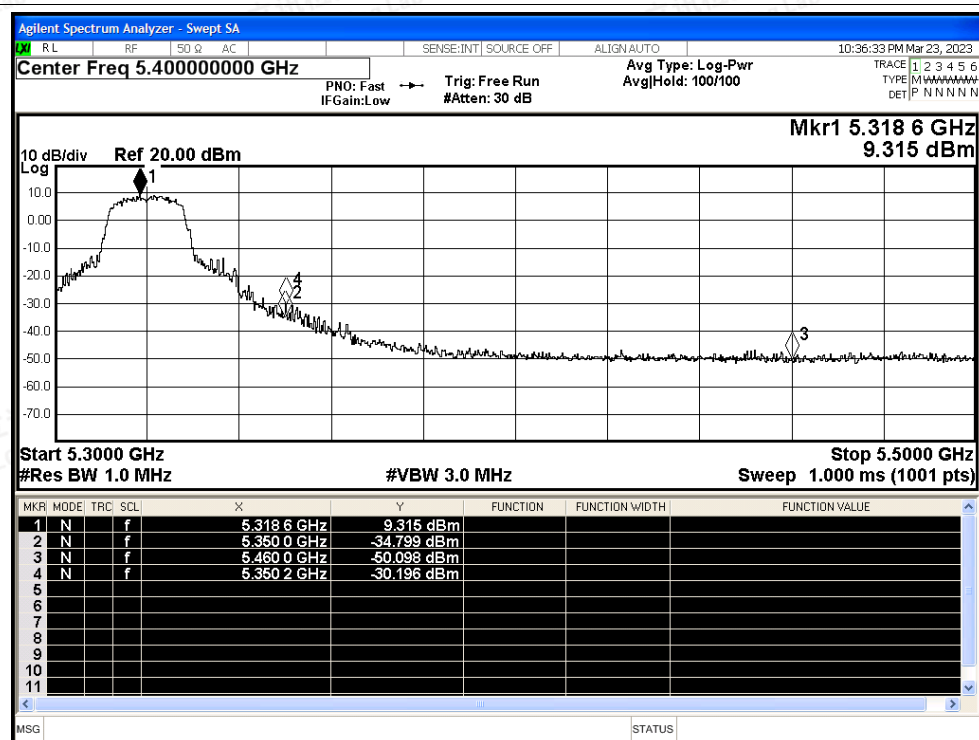
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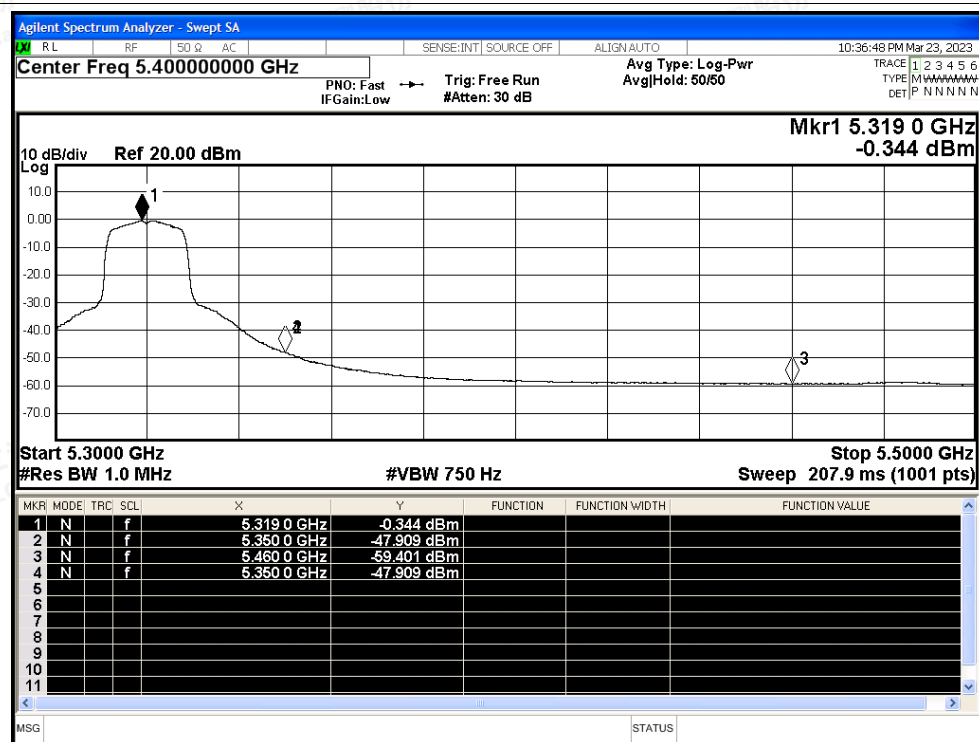
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Restrict Band NVNT a 5320MHz Ant Peak



Restrict Band NVNT a 5320MHz Ant Average



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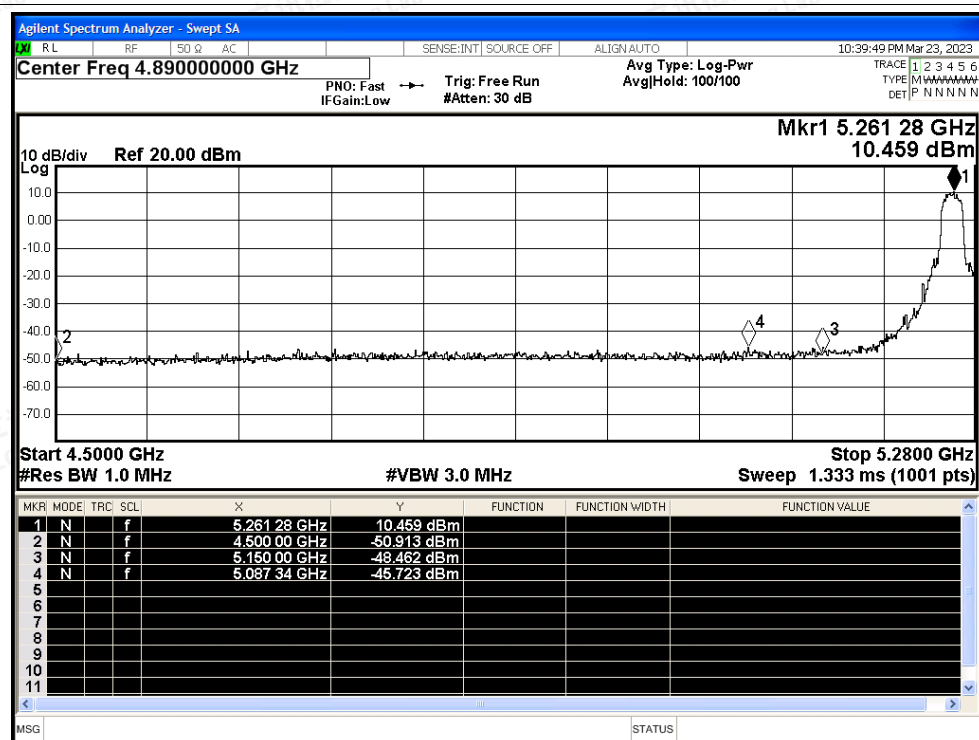
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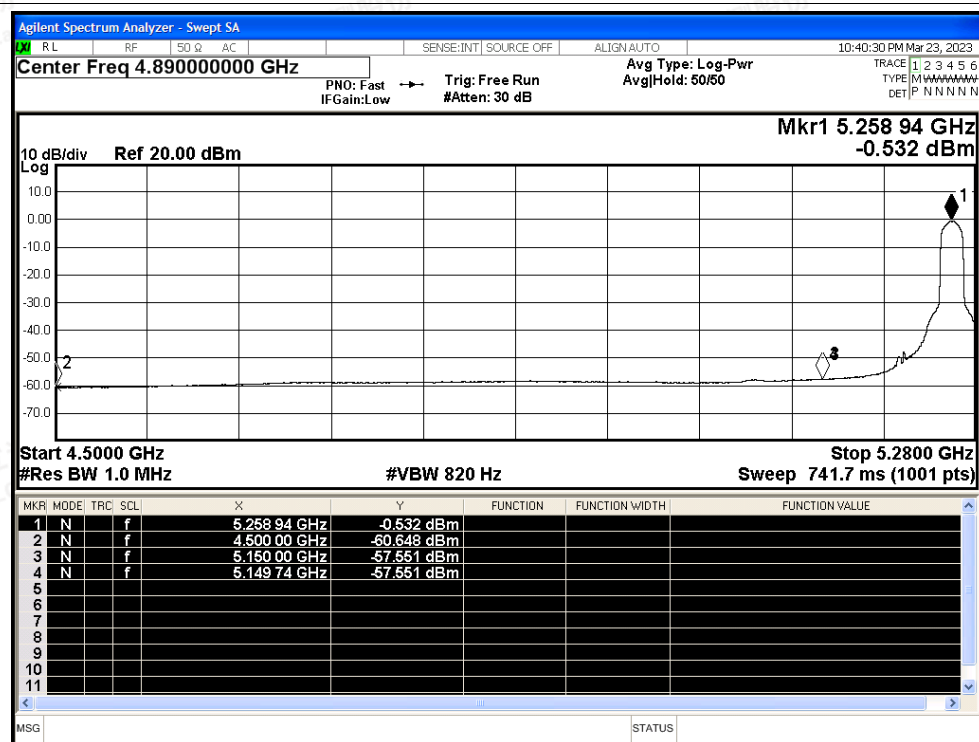
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Restrict Band NVNT n20 5260MHz Ant Peak

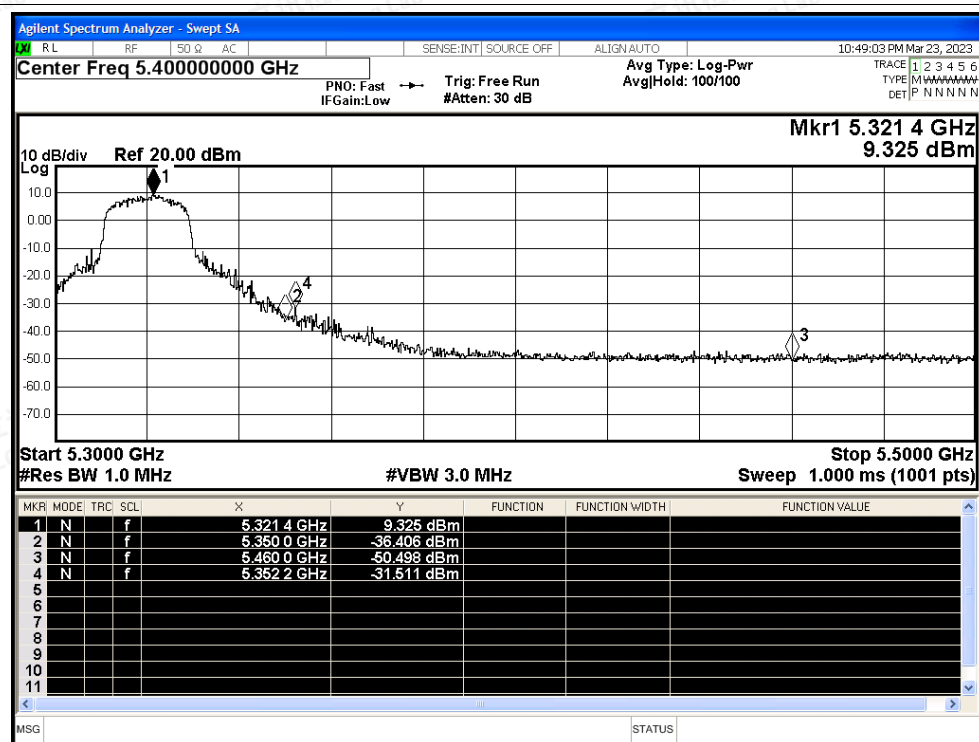


Restrict Band NVNT n20 5260MHz Ant Average

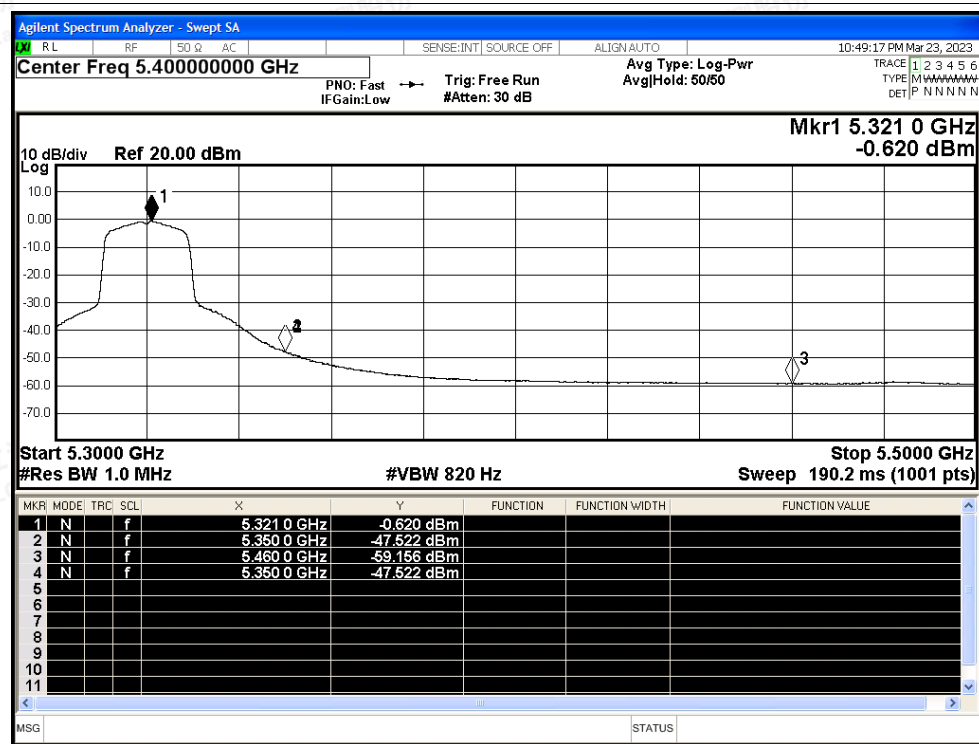




Restrict Band NVNT n20 5320MHz Ant Peak



Restrict Band NVNT n20 5320MHz Ant Average



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C.5 Frequency Stability

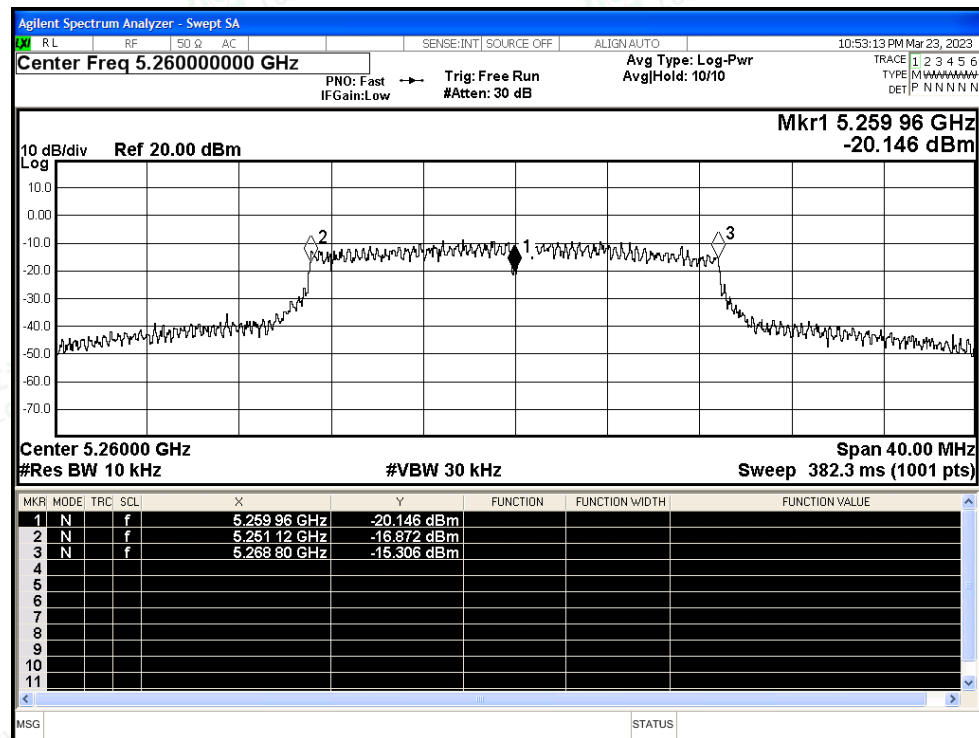
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5260	Ant	5259.96	-40000	-7.6	25	Pass
NVNT	n20	5300	Ant	5299.96	-40000	-7.55	25	Pass
NVNT	n20	5320	Ant	5319.98	-20000	-3.76	25	Pass



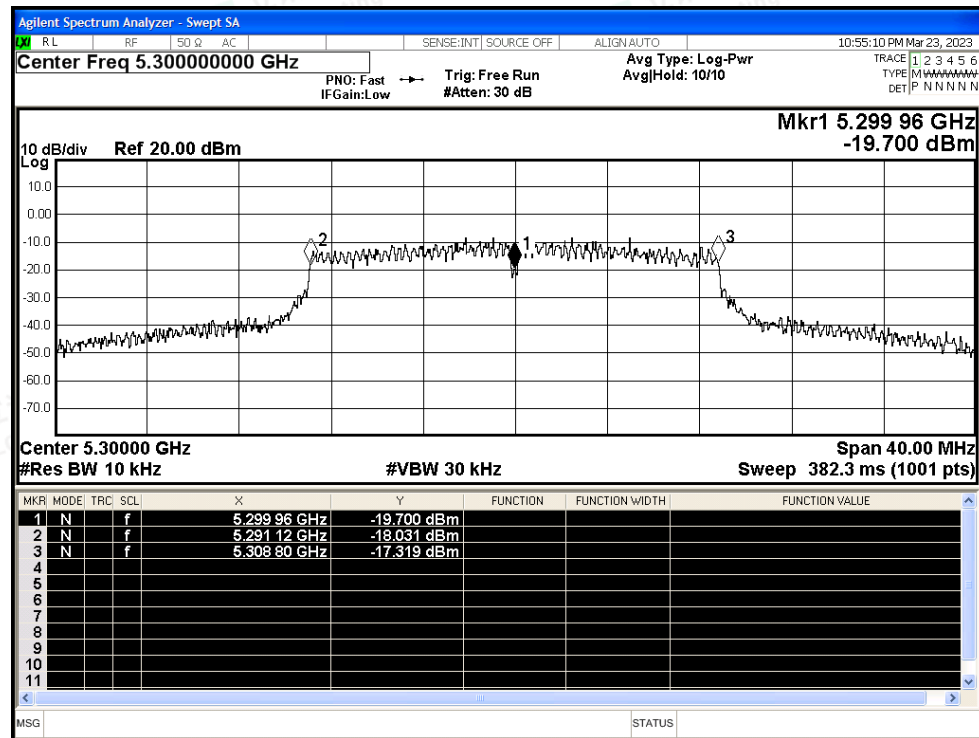


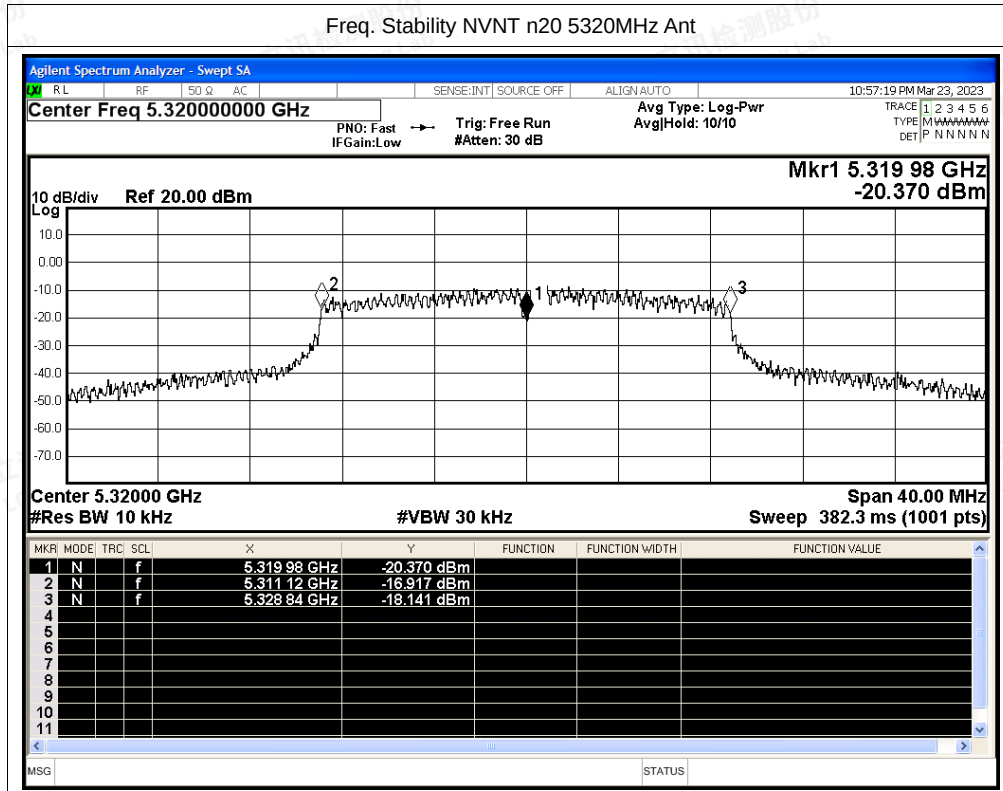
Test Graphs

Freq. Stability NVNT n20 5260MHz Ant



Freq. Stability NVNT n20 5300MHz Ant





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C.6 Duty Cycle

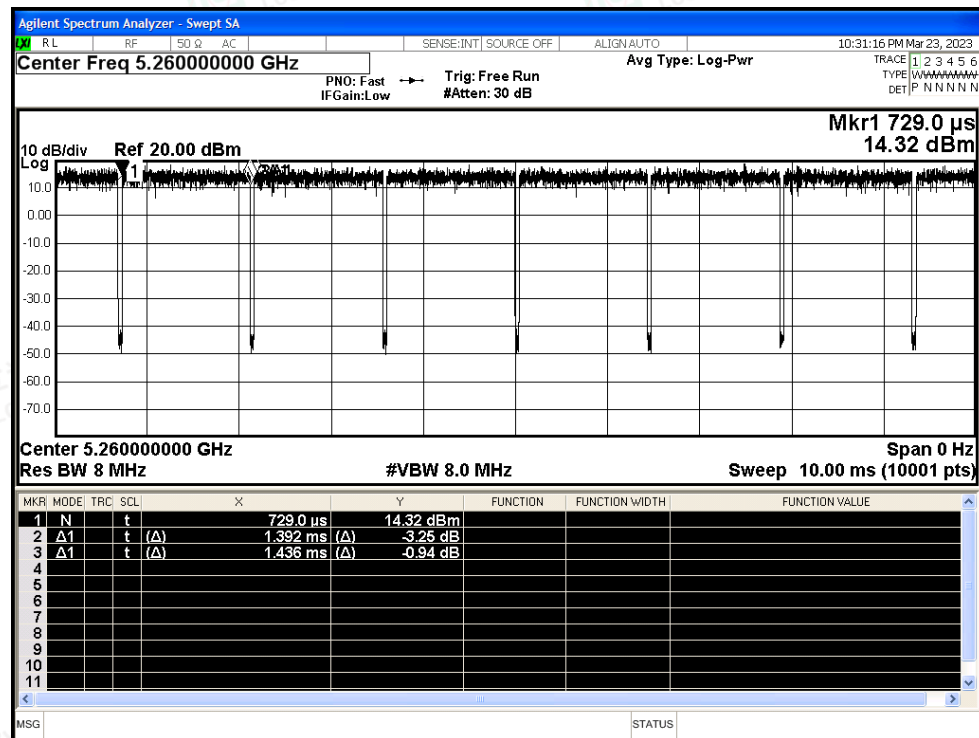
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant	96.94	0.13	0.72
NVNT	a	5300	Ant	96.94	0.13	0.72
NVNT	a	5320	Ant	96.94	0.13	0.72
NVNT	n20	5260	Ant	96.73	0.14	0.77
NVNT	n20	5300	Ant	96.73	0.14	0.77
NVNT	n20	5320	Ant	96.73	0.14	0.77



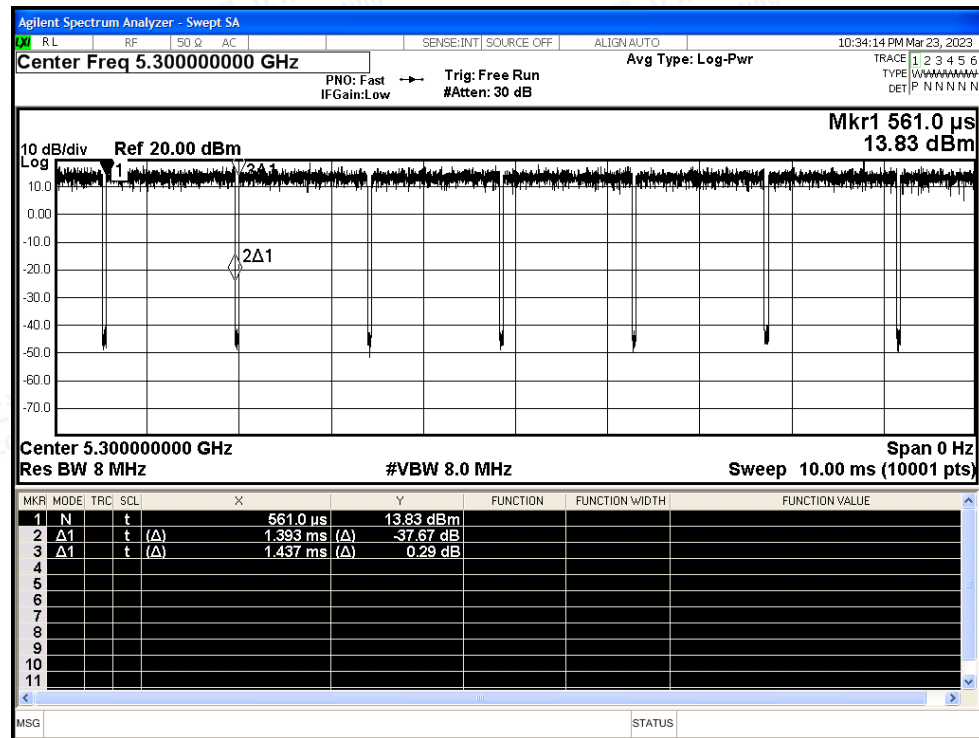


Test Graphs

Duty Cycle NVNT a 5260MHz Ant



Duty Cycle NVNT a 5300MHz Ant



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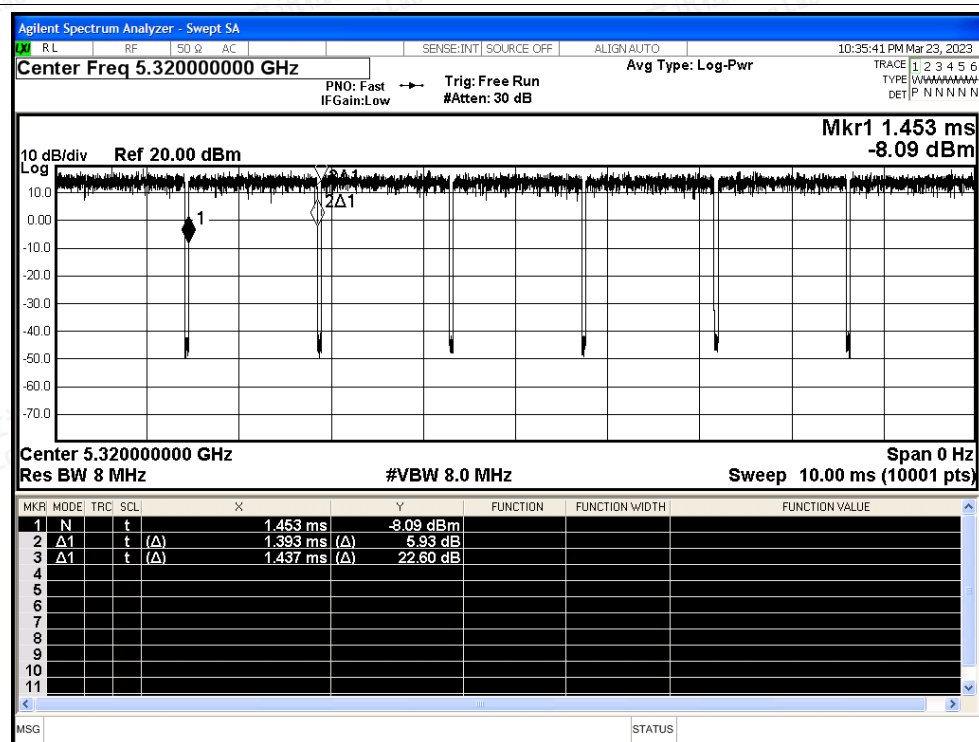
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Duty Cycle NVNT a 5320MHz Ant



Duty Cycle NVNT n20 5260MHz Ant

