



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: AAWireless TWO

Test Model: A2BP

Environmental Conditions

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



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D.1 -26dB Bandwidth

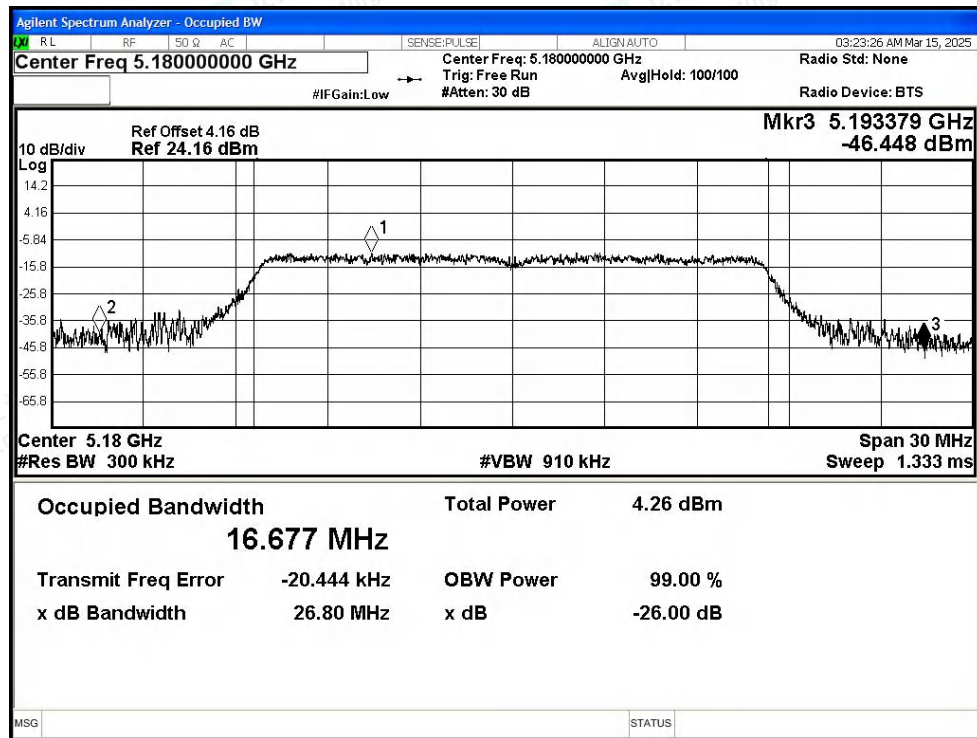
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.799	---	Pass
NVNT	a	5200	Ant1	26.332	---	Pass
NVNT	a	5240	Ant1	27.885	---	Pass
NVNT	n20	5180	Ant1	27.6	---	Pass
NVNT	n20	5200	Ant1	27.979	---	Pass
NVNT	n20	5240	Ant1	28.457	---	Pass
NVNT	n40	5190	Ant1	46.483	---	Pass
NVNT	n40	5230	Ant1	48.26	---	Pass



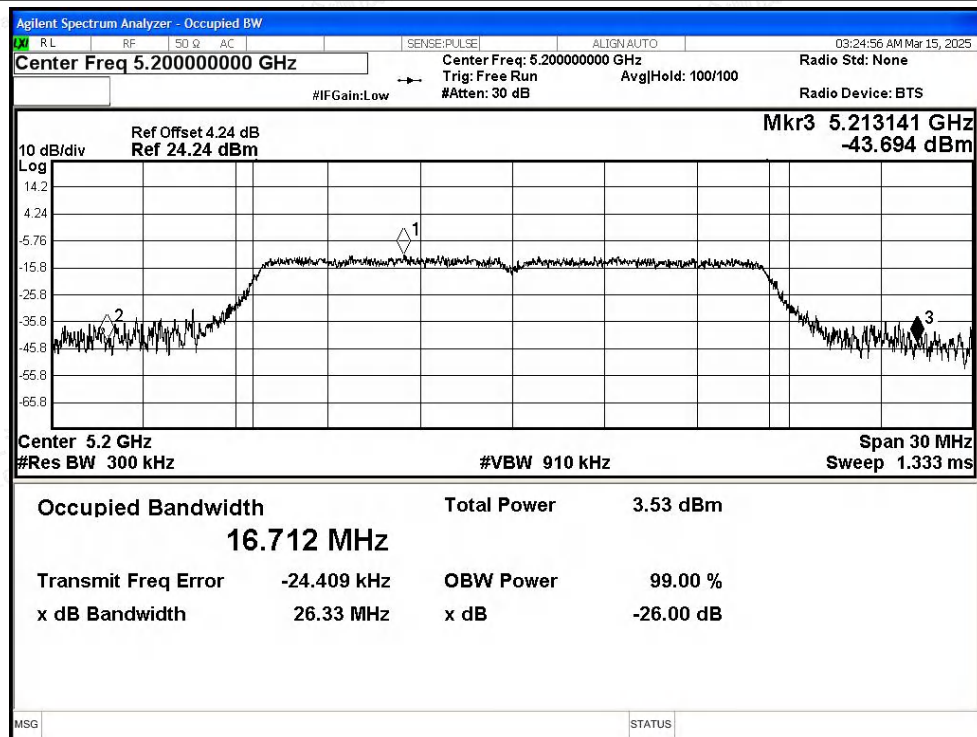


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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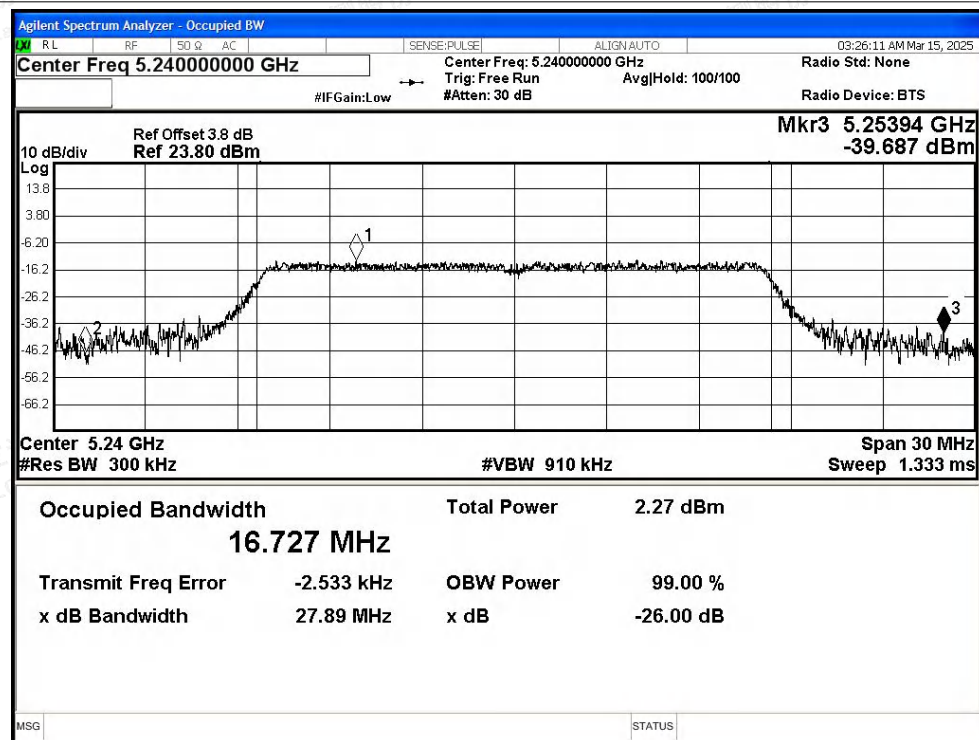
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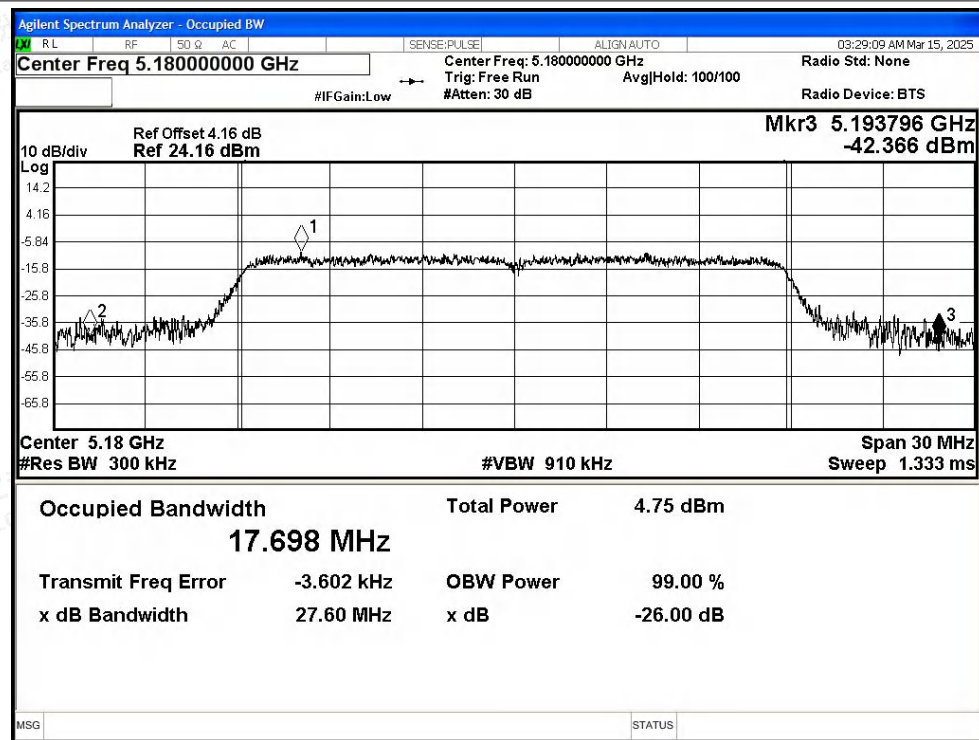
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

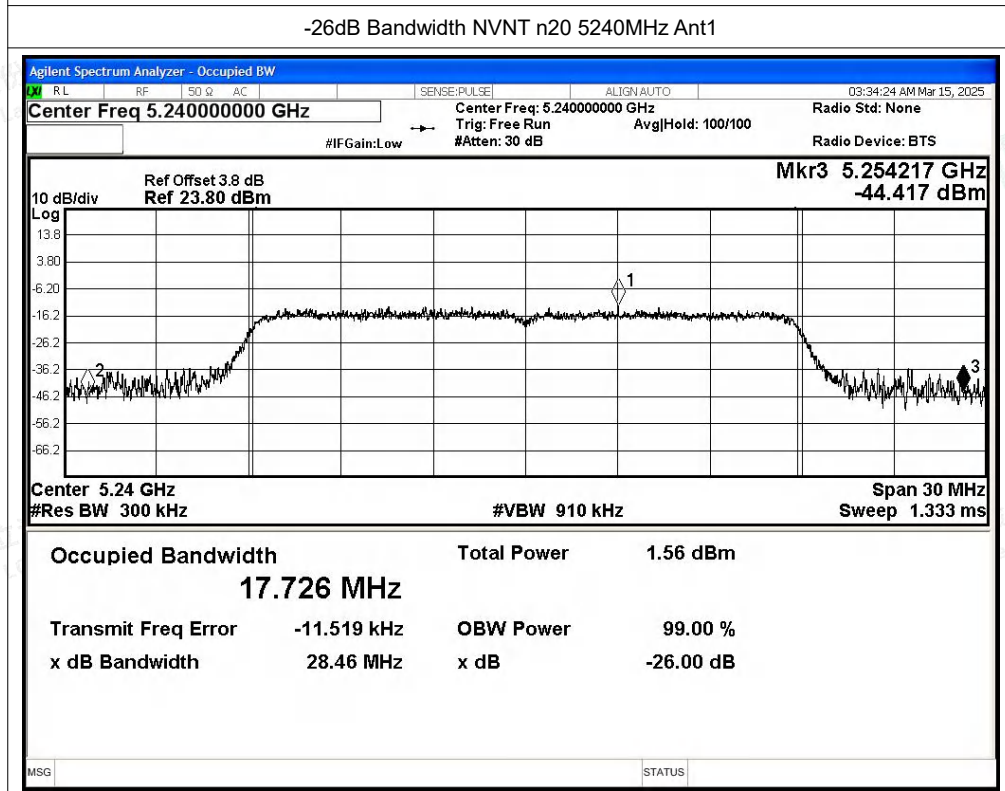
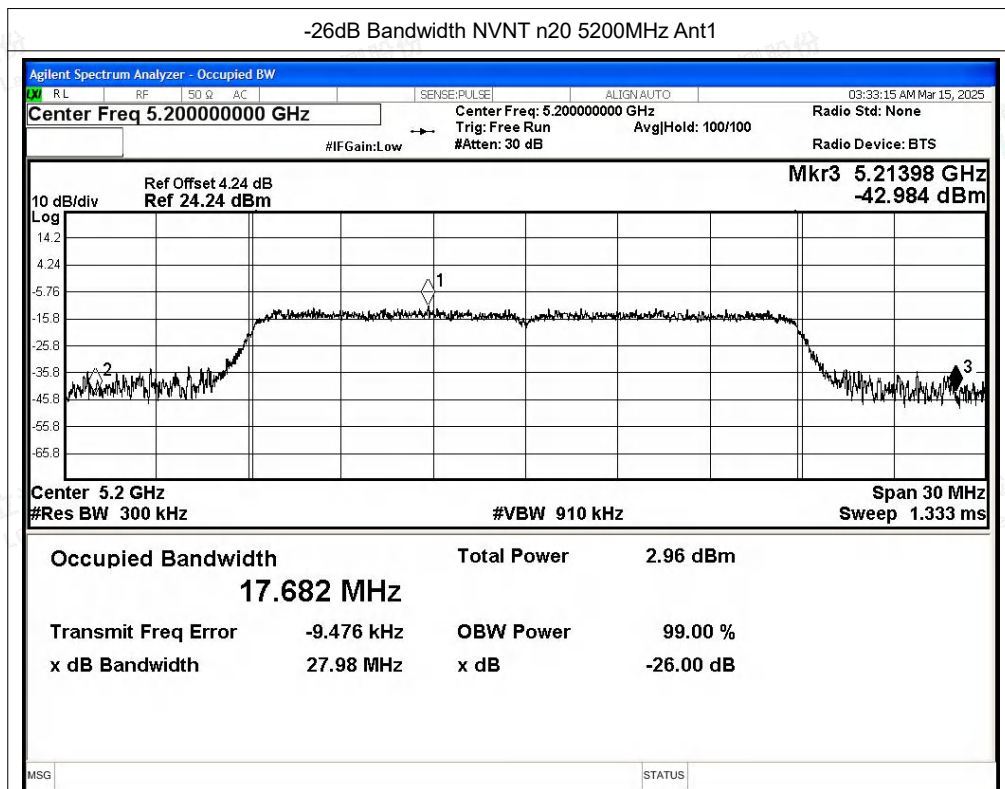


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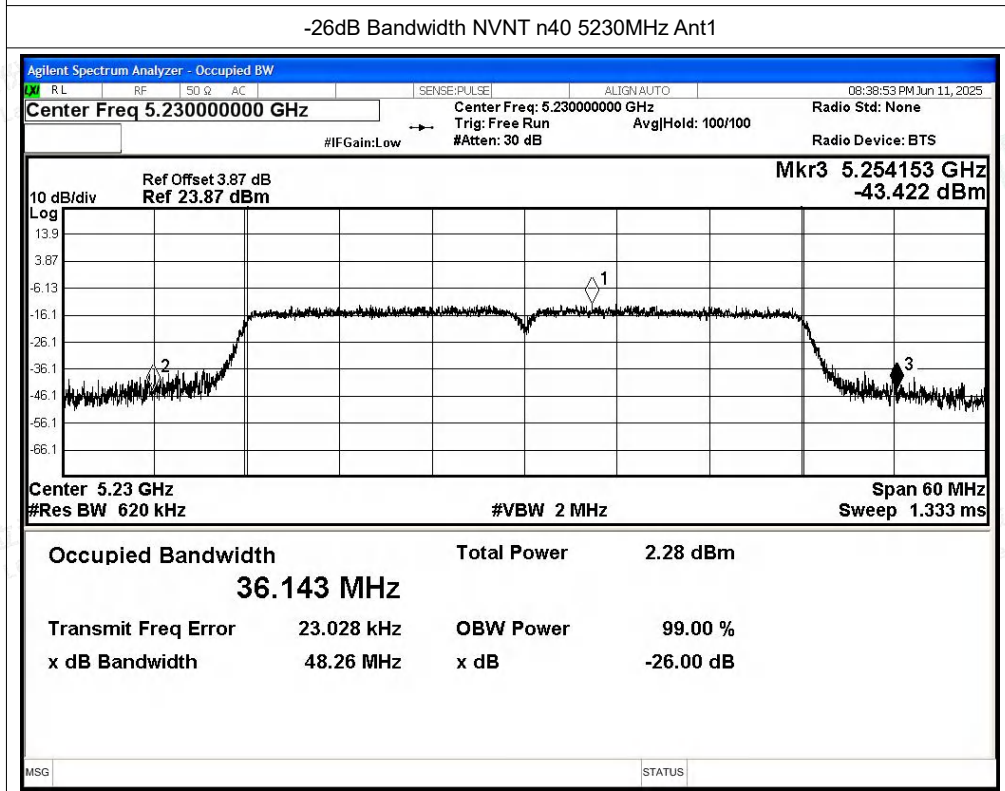
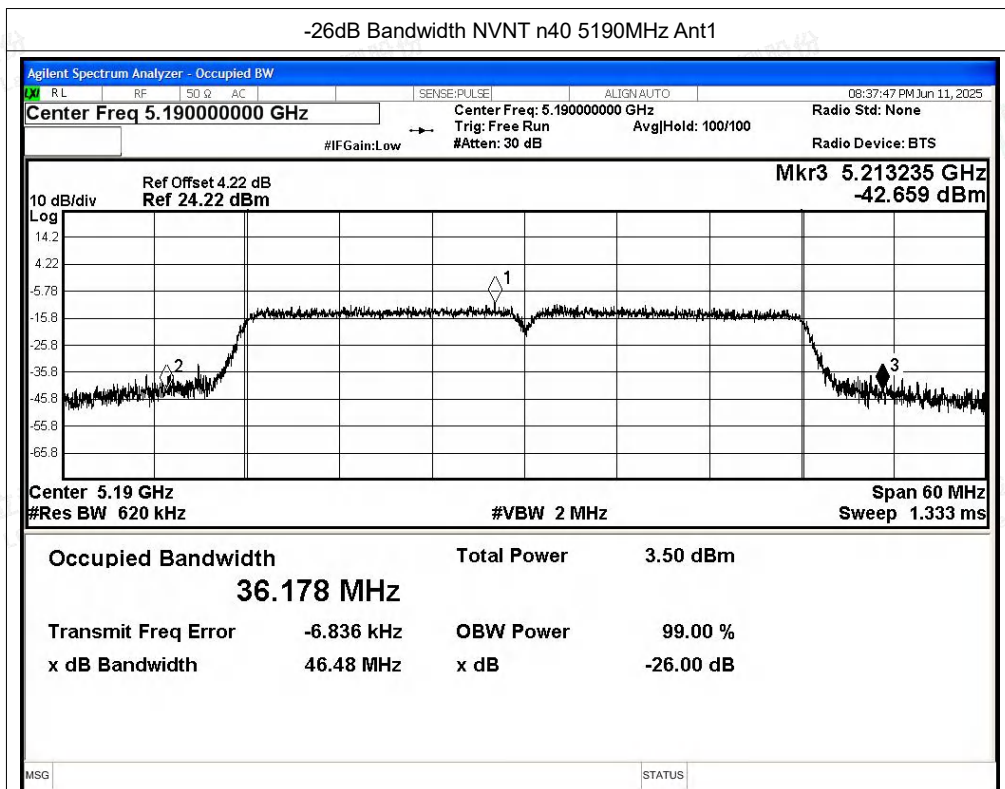


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.45	0.24	-4.21	24	Pass
NVNT	a	5200	Ant1	-5.19	0.24	-4.95	24	Pass
NVNT	a	5240	Ant1	-4.71	0.24	-4.47	24	Pass
NVNT	n20	5180	Ant1	-5.02	0.12	-4.9	24	Pass
NVNT	n20	5200	Ant1	-4.62	0.12	-4.5	24	Pass
NVNT	n20	5240	Ant1	-5.01	0.12	-4.89	24	Pass
NVNT	n40	5190	Ant1	-4.01	0.24	-3.77	24	Pass
NVNT	n40	5230	Ant1	-4.57	0.24	-4.33	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	5180	Ant1	-12.11	0.24	-11.87	11	Pass
NVNT	a	5200	Ant1	-12.67	0.24	-12.43	11	Pass
NVNT	a	5240	Ant1	-13.96	0.24	-13.72	11	Pass
NVNT	n20	5180	Ant1	-11.66	0.12	-11.54	11	Pass
NVNT	n20	5200	Ant1	-13.28	0.12	-13.16	11	Pass
NVNT	n20	5240	Ant1	-14.68	0.12	-14.56	11	Pass
NVNT	n40	5190	Ant1	-17.74	0.24	-17.5	11	Pass
NVNT	n40	5230	Ant1	-18.23	0.24	-17.99	11	Pass

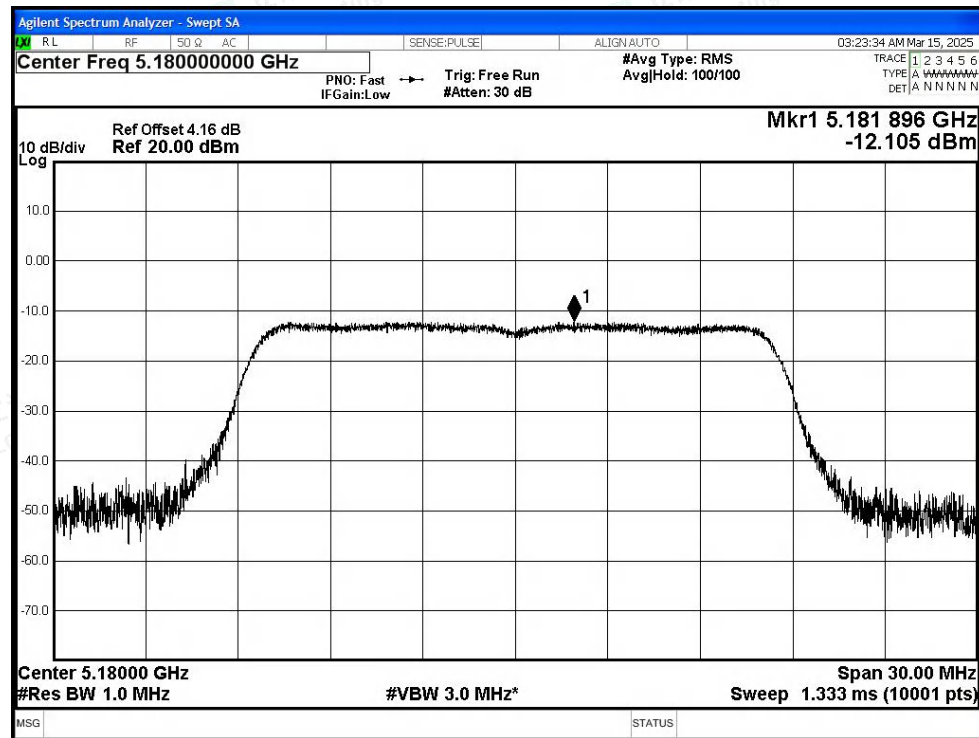


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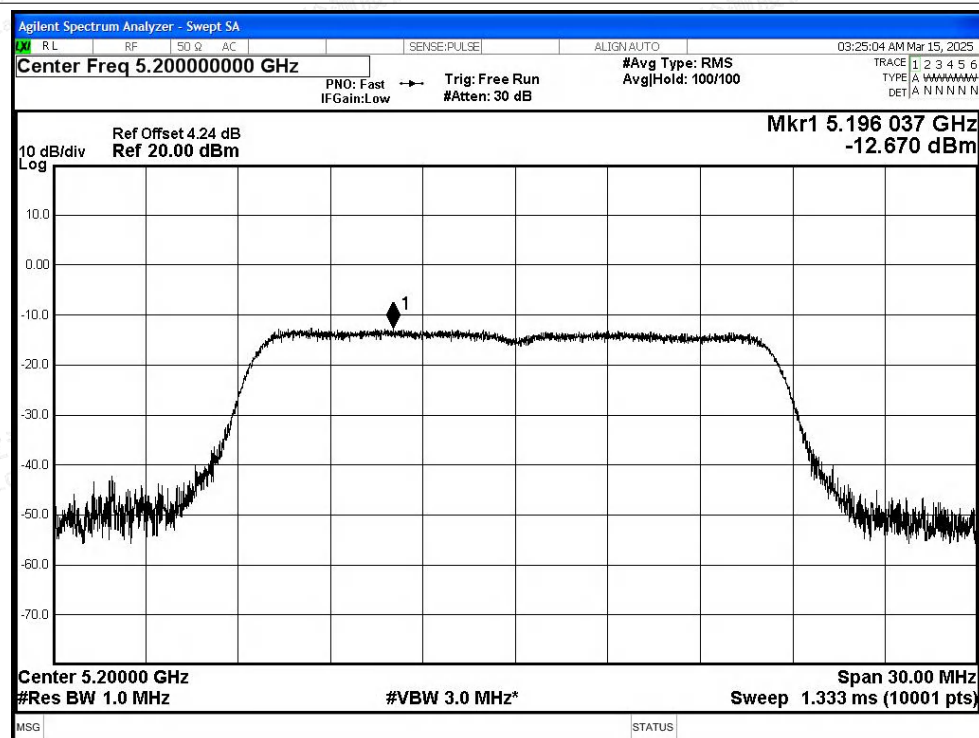


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1

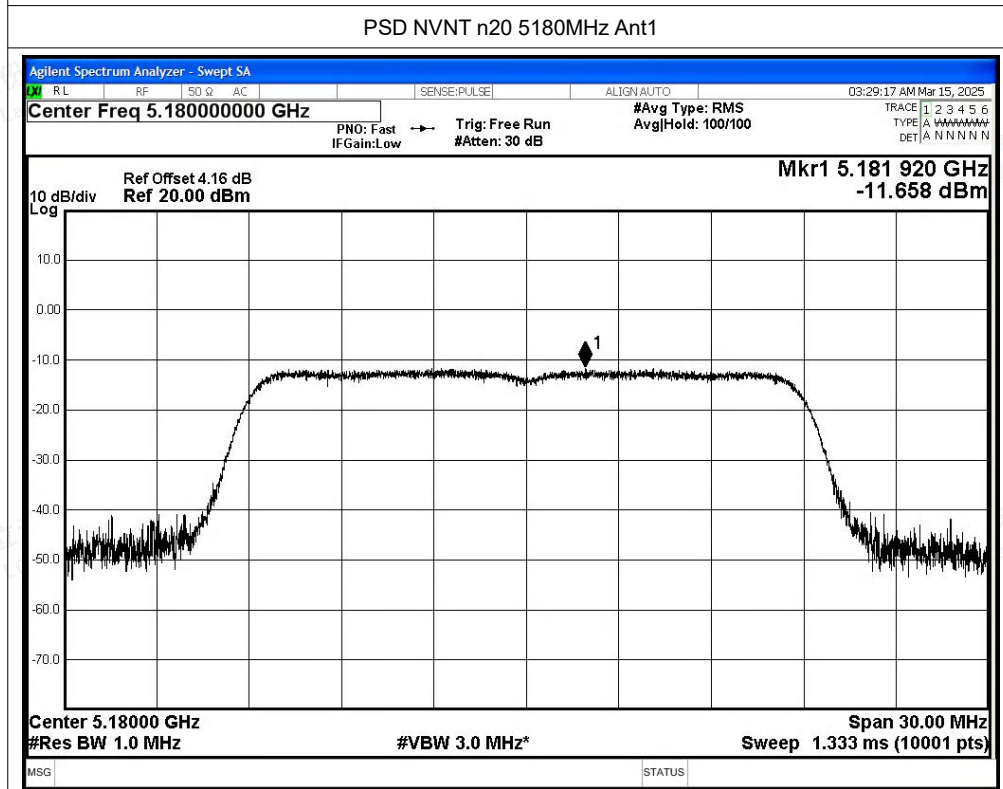
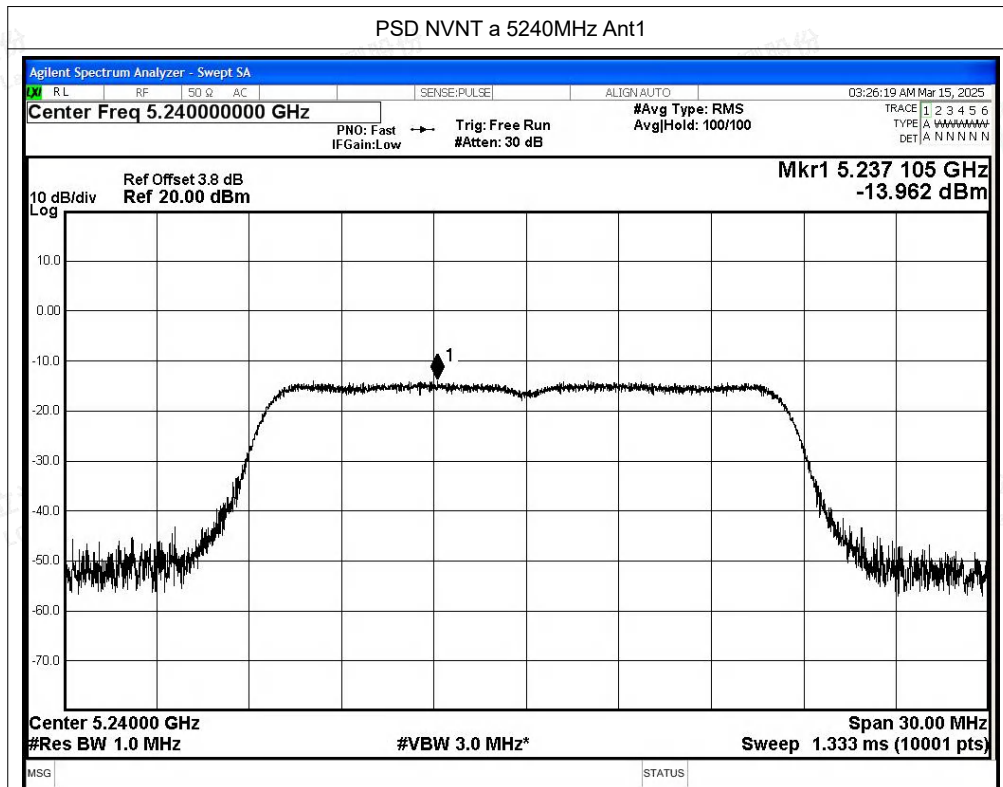


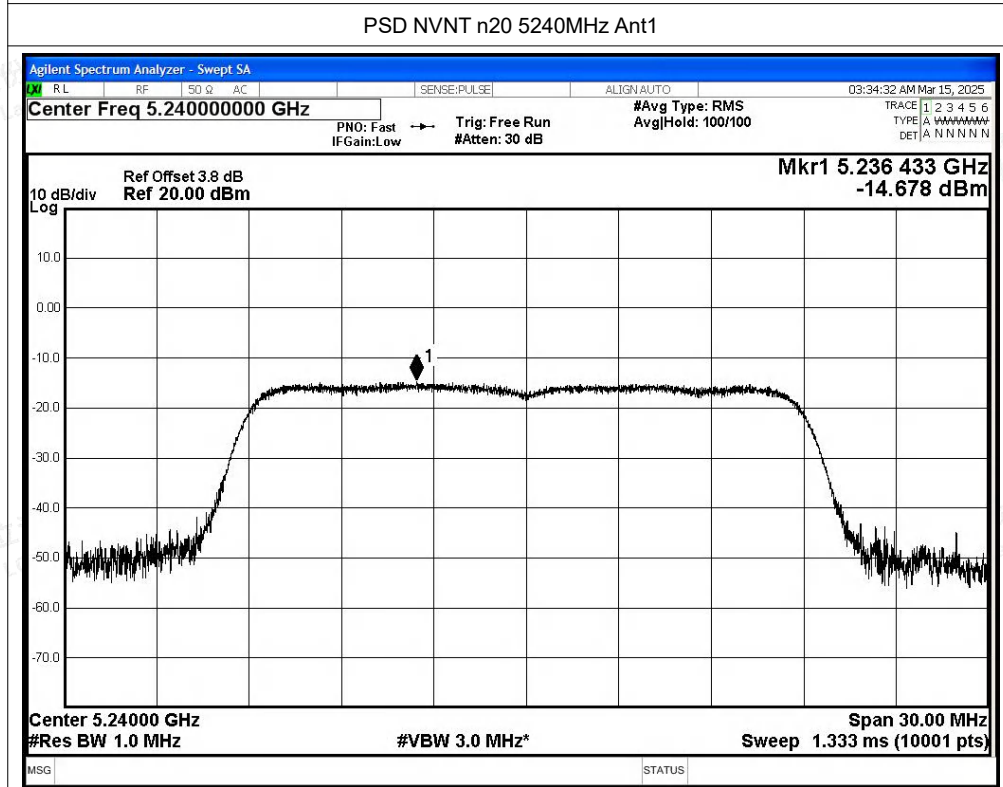
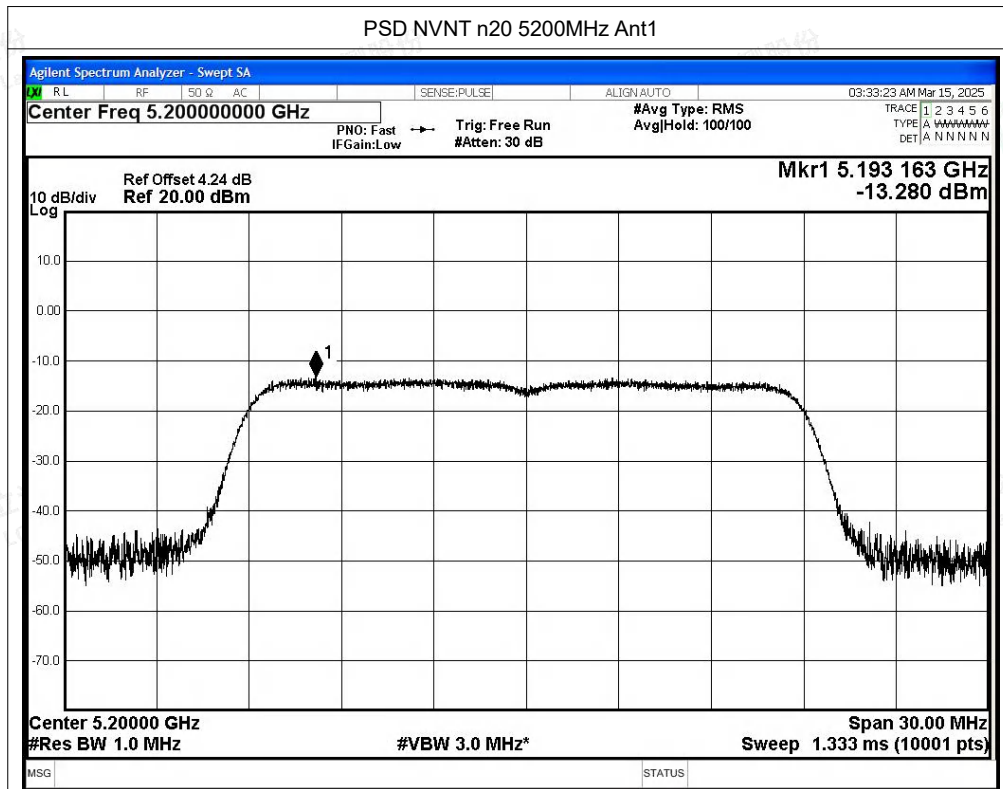
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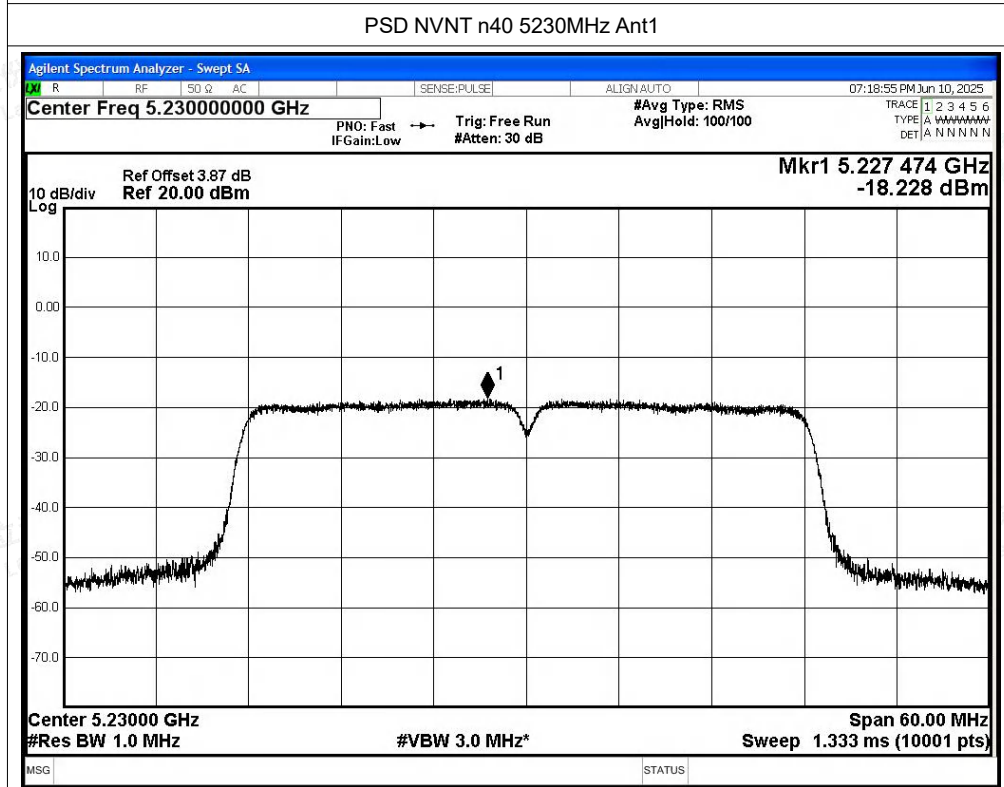
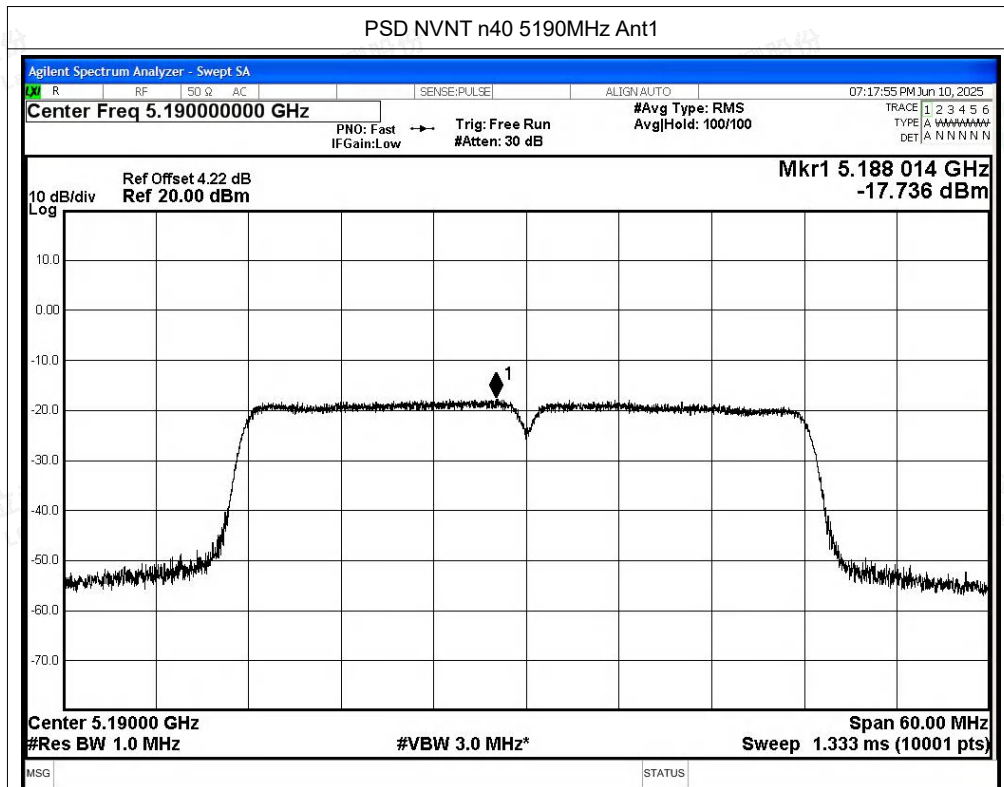


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D.4 Restrict Band

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	Ant1	4500	-47	2.75	-	50.98	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.95	2.75	0.24	40.27	Average	54	Pass
NVNT	a	5180	Ant1	4738	-46.05	2.75	-	51.93	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-55.42	2.75	0.24	42.80	Average	54	Pass
NVNT	a	5180	Ant1	5150	-45.8	2.75	-	52.18	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-55.97	2.75	0.24	42.25	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.9	2.75	-	48.08	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.05	2.75	0.24	41.17	Average	54	Pass
NVNT	a	5240	Ant1	5444.16	-46.38	2.75	-	51.60	Peak	68.2	Pass
NVNT	a	5240	Ant1	5447.28	-56.4	2.75	0.24	41.82	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.02	2.75	-	47.96	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.16	2.75	0.24	41.06	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.48	2.75	-	48.50	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.85	2.75	0.12	40.25	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-44.45	2.75	-	53.53	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5130.7	-55.46	2.75	0.12	42.64	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.56	2.75	-	50.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-55.47	2.75	0.12	42.63	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.66	2.75	-	48.32	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.63	2.75	0.12	40.47	Average	54	Pass
NVNT	n20	5240	Ant1	5444.88	-45.32	2.75	-	52.66	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5385.12	-56.43	2.75	0.12	41.67	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.03	2.75	-	48.95	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.87	2.75	0.12	41.23	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.68	2.75	-	48.3	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.81	2.75	0.24	40.41	Average	54	Pass
NVNT	n40	5190	Ant1	5040.2	-45.71	2.75	-	52.27	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5121.23	-55.41	2.75	0.24	42.81	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-46.91	2.75	-	51.07	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-56.41	2.75	0.24	41.81	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.09	2.75	-	49.89	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.65	2.75	0.24	40.57	Average	54	Pass
NVNT	n40	5230	Ant1	5426.79	-46.05	2.75	-	51.93	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5399.52	-56.47	2.75	0.24	41.75	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.64	2.75	-	48.34	Peak	68.2	Pass



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NVNT	n40	5230	Ant1	5460	-57.39	2.75	0.24	40.83	Average	54	Pass
------	-----	------	------	------	--------	------	------	-------	---------	----	------

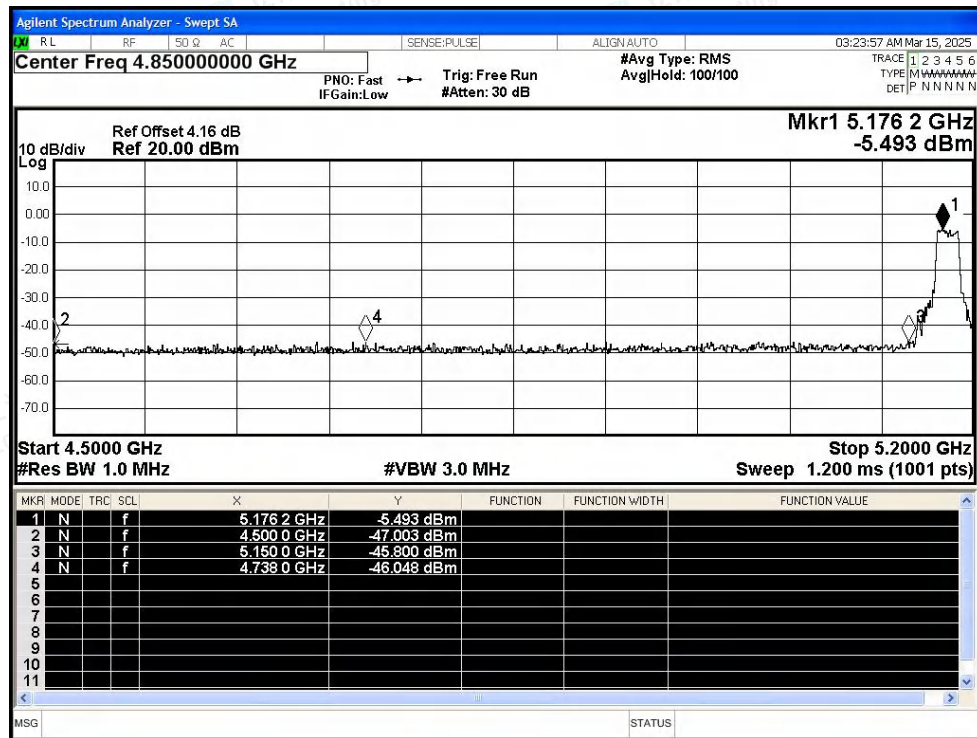


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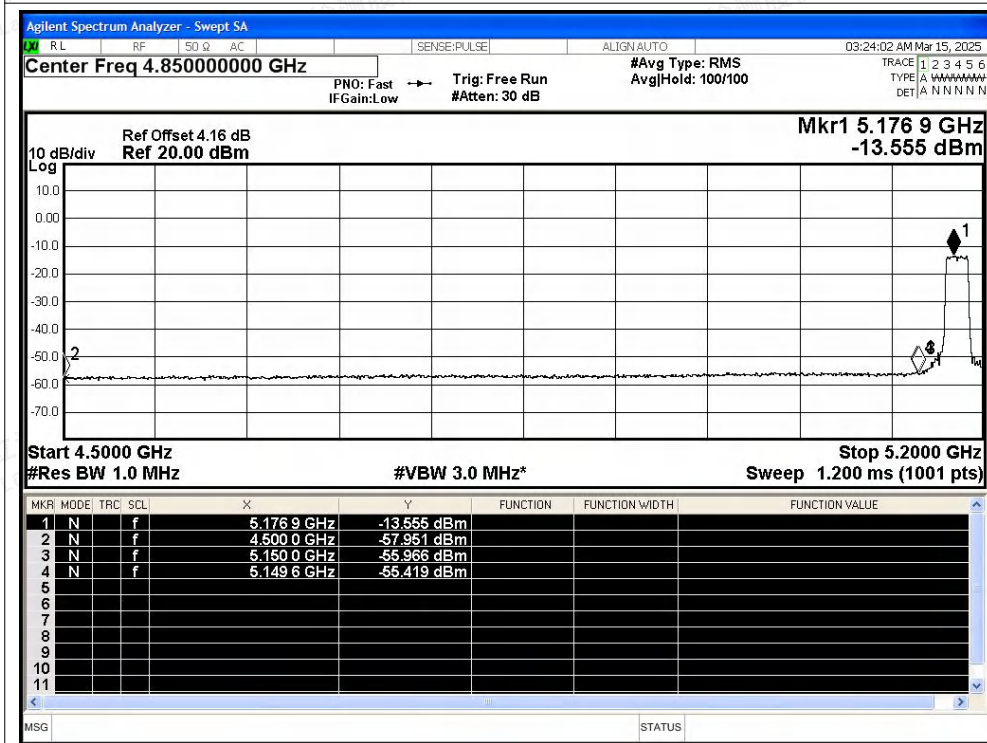


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average

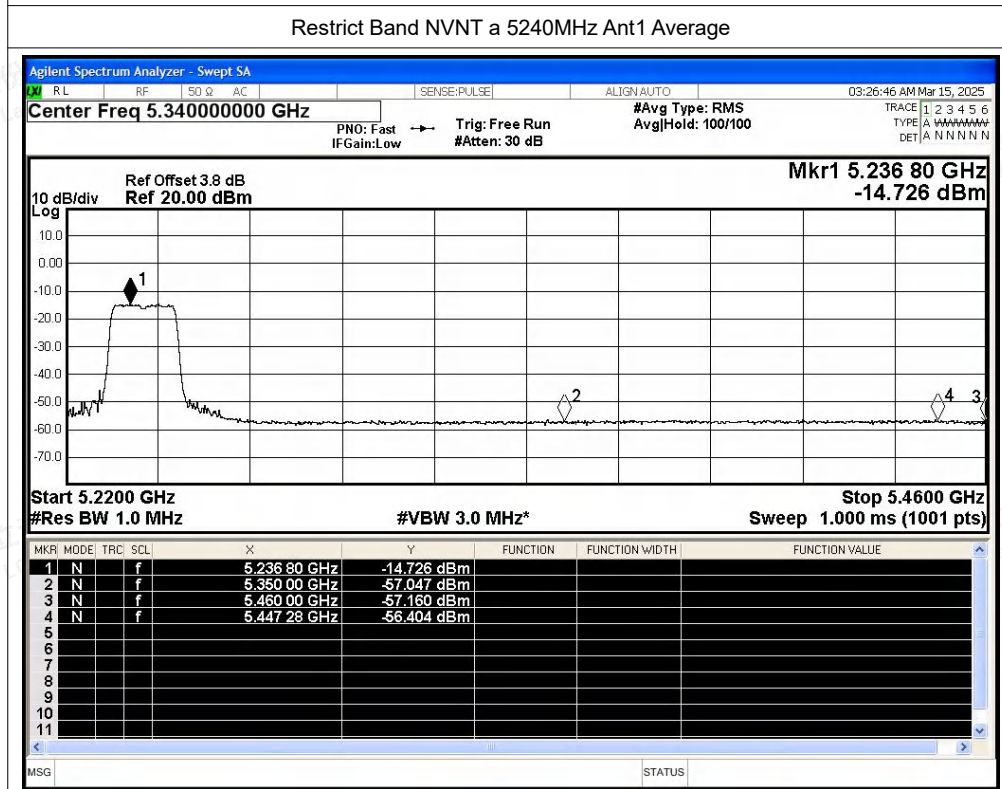
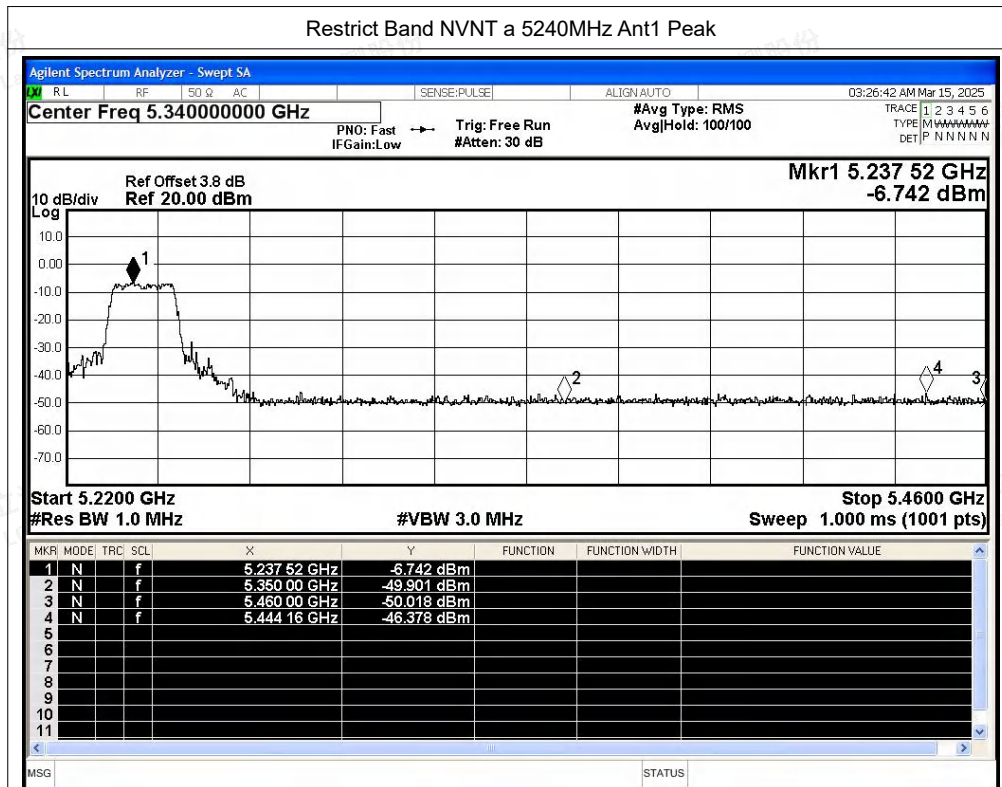


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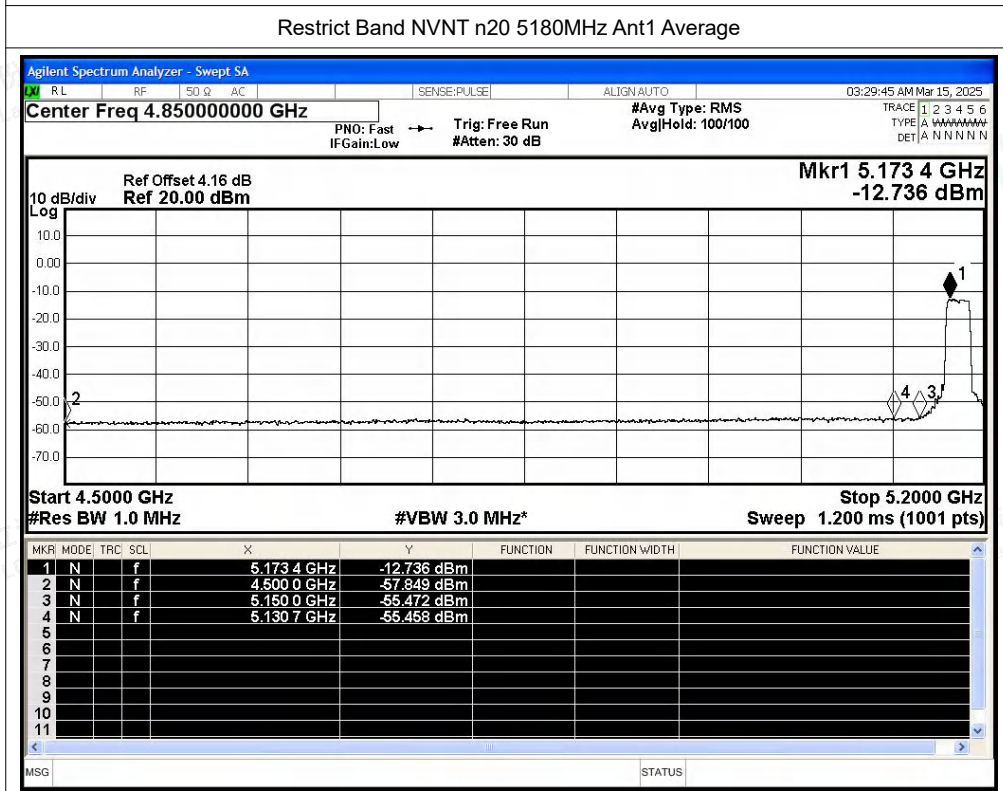
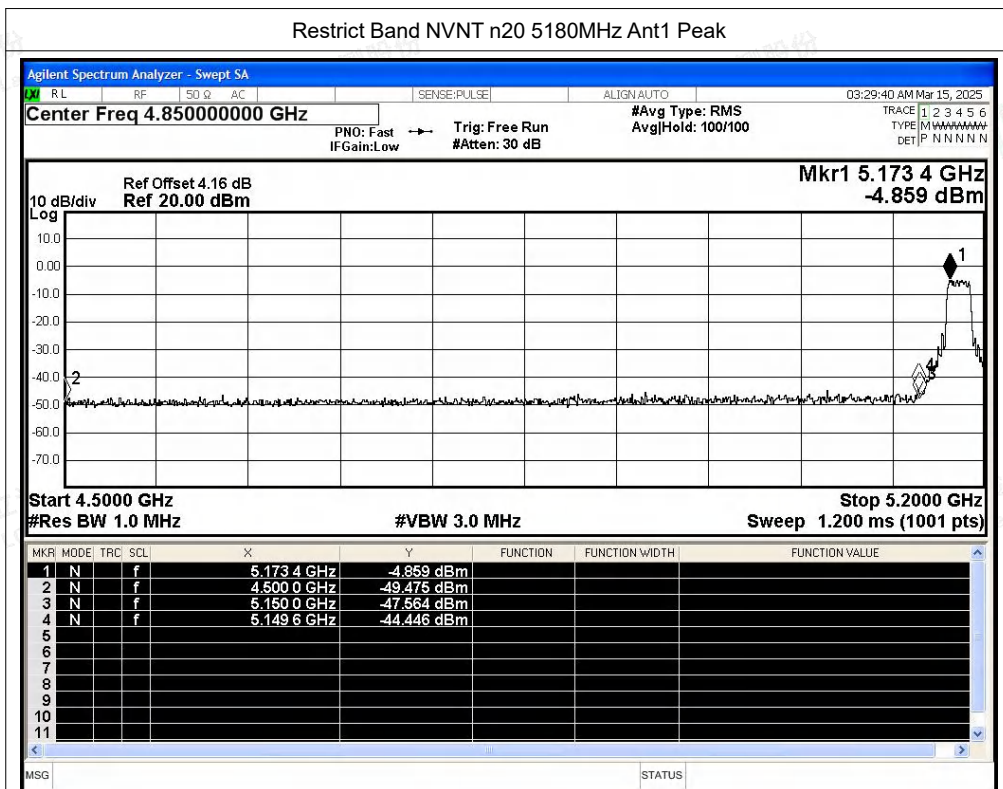


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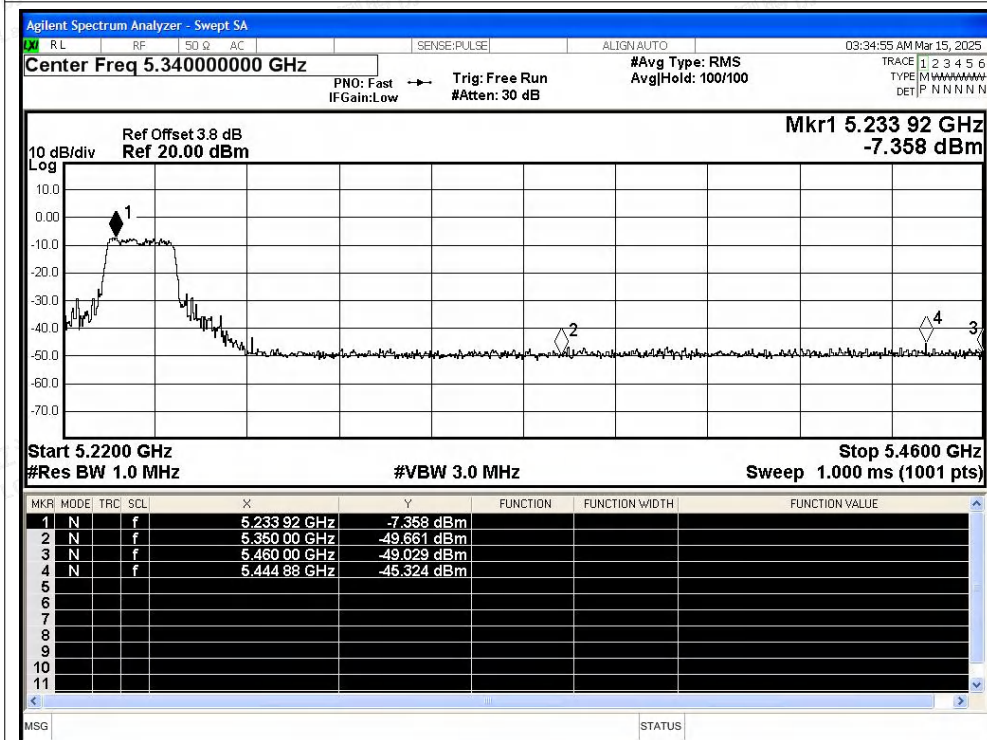
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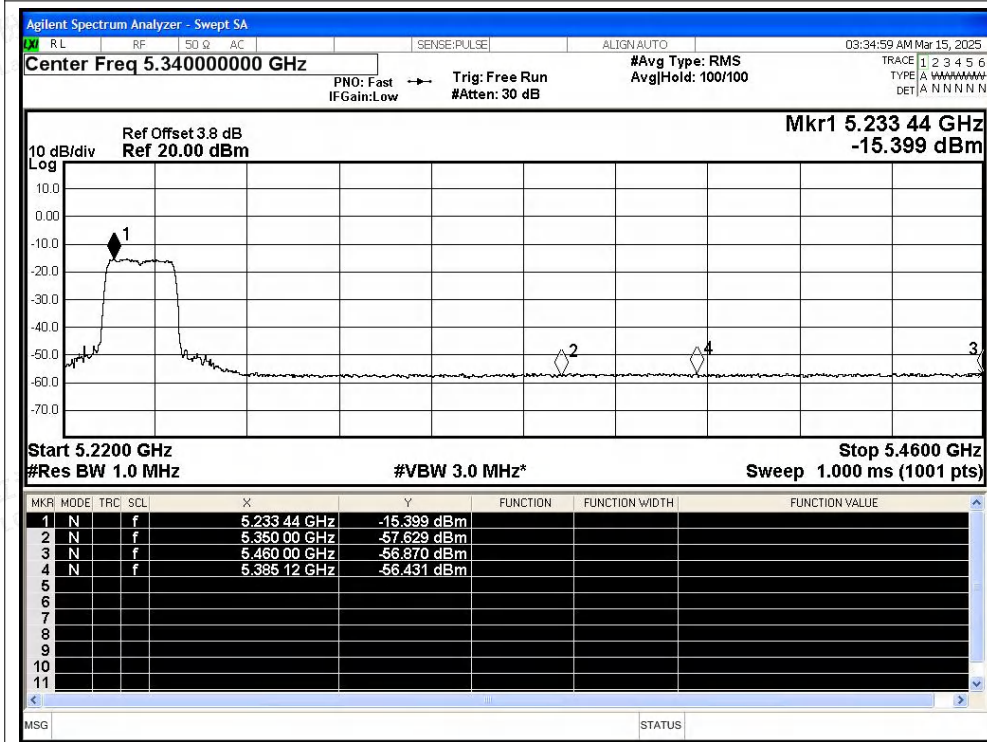
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Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average

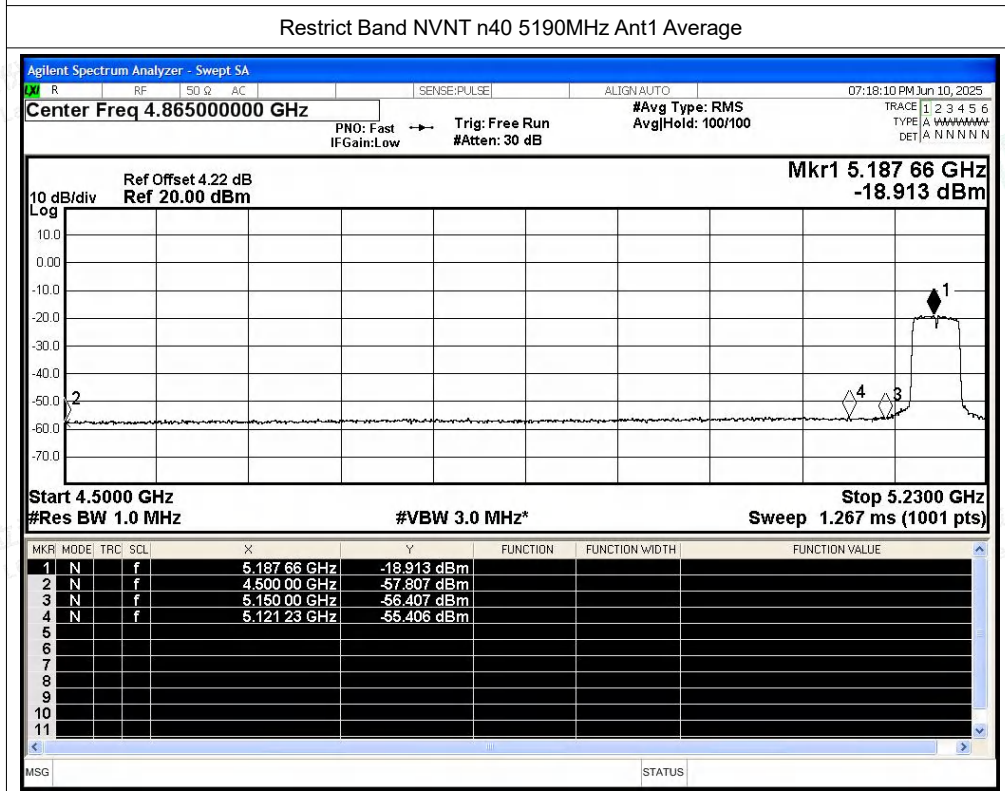
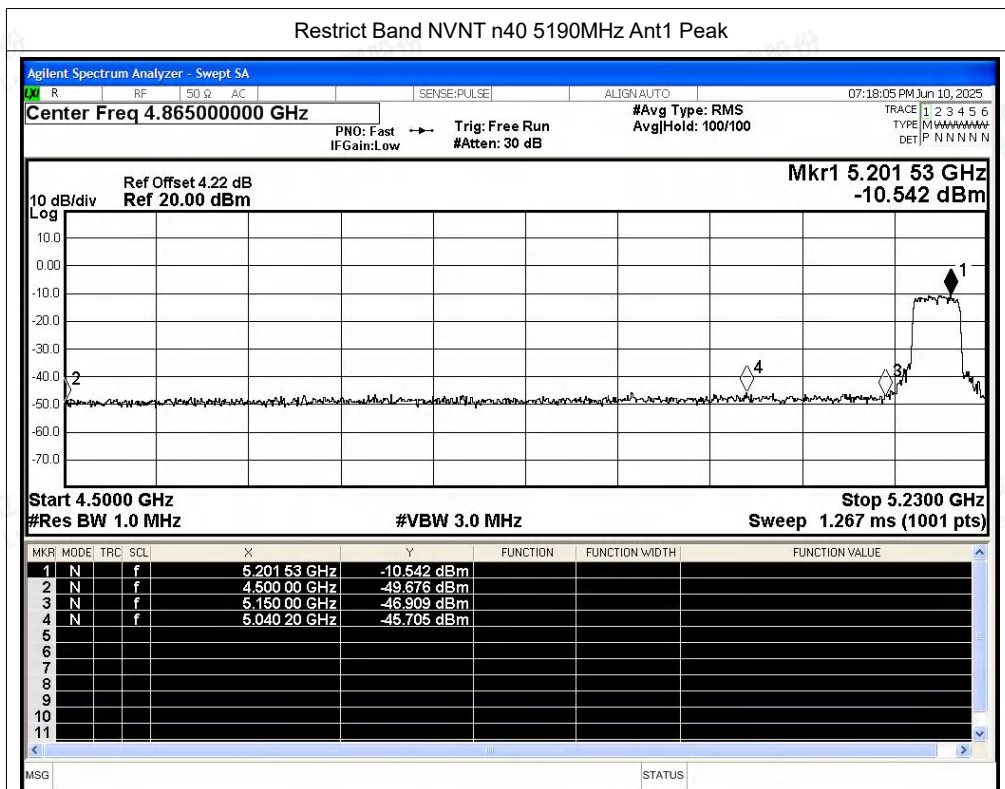


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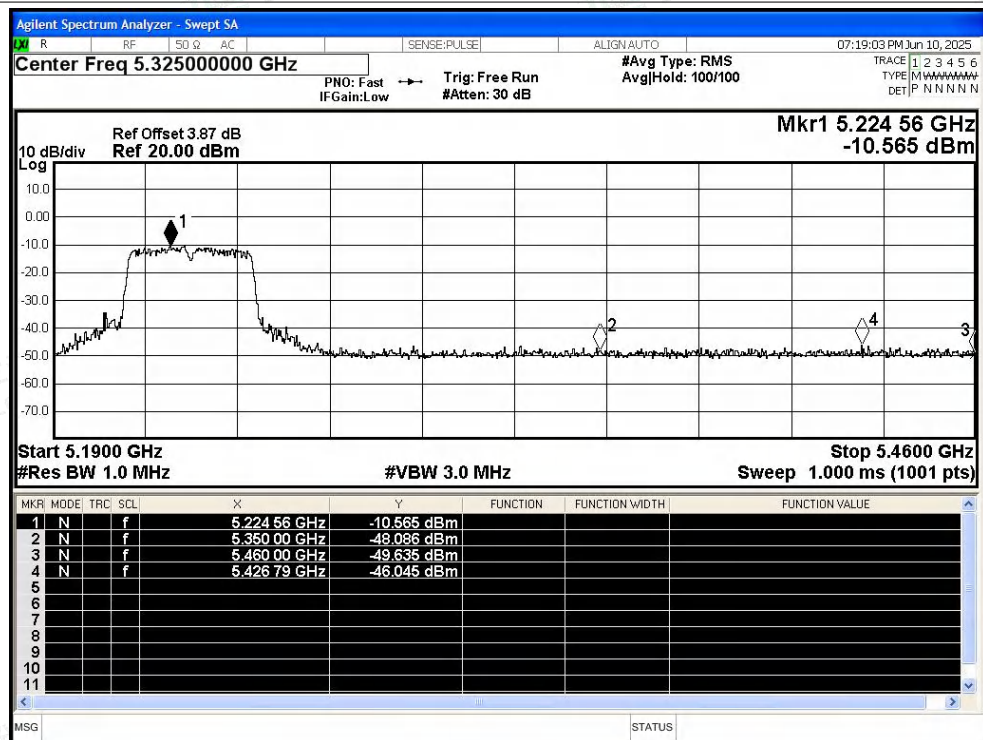
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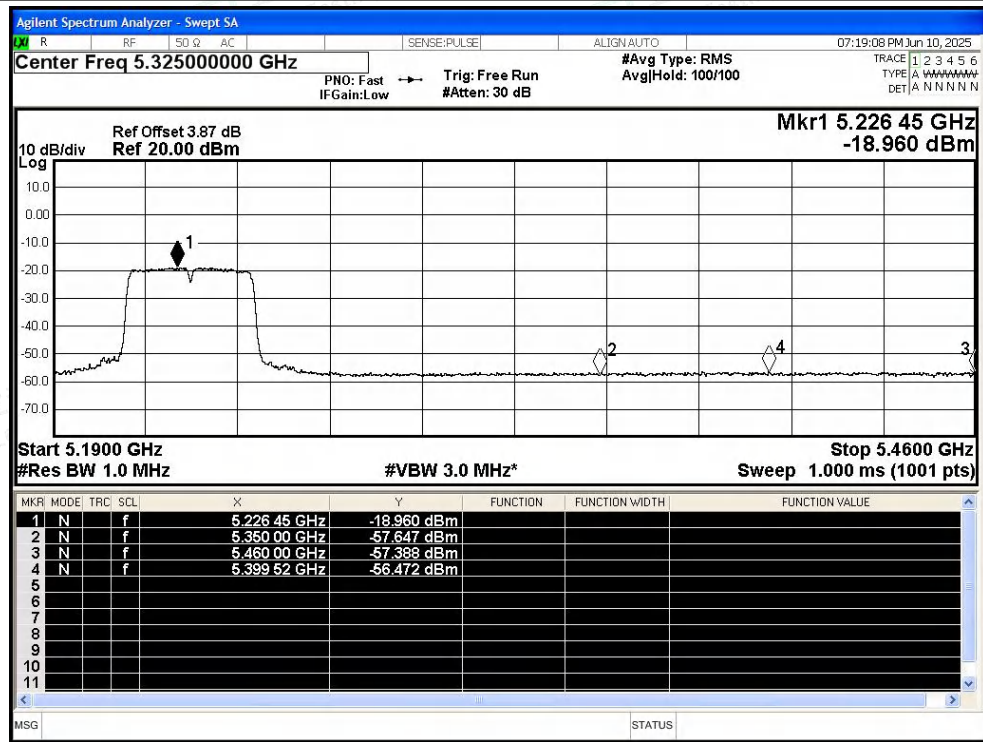
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass

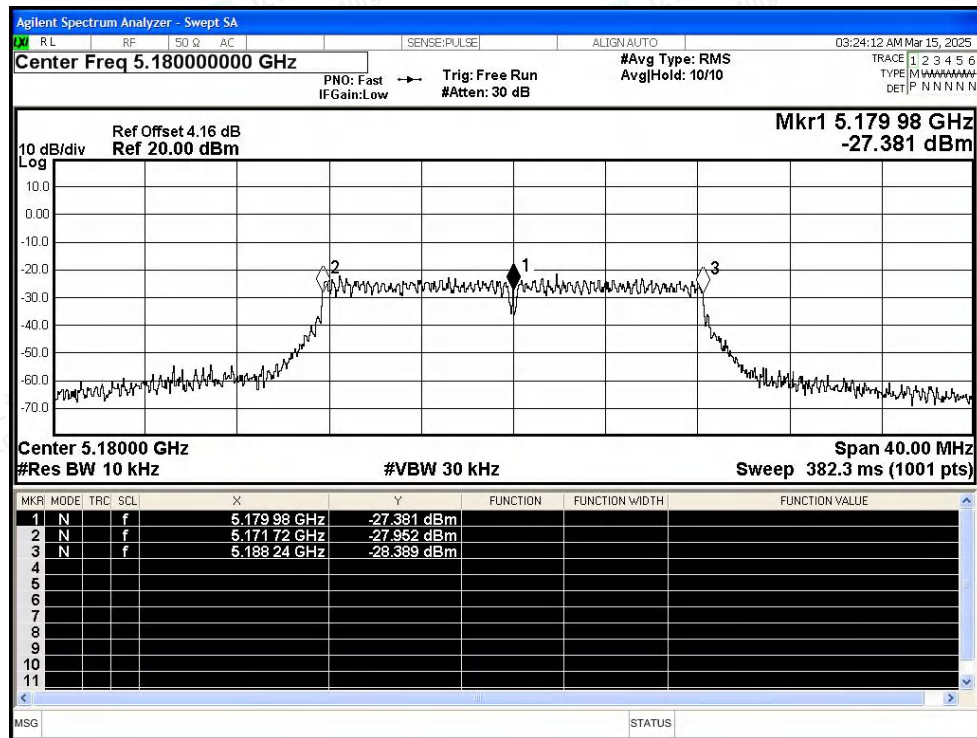


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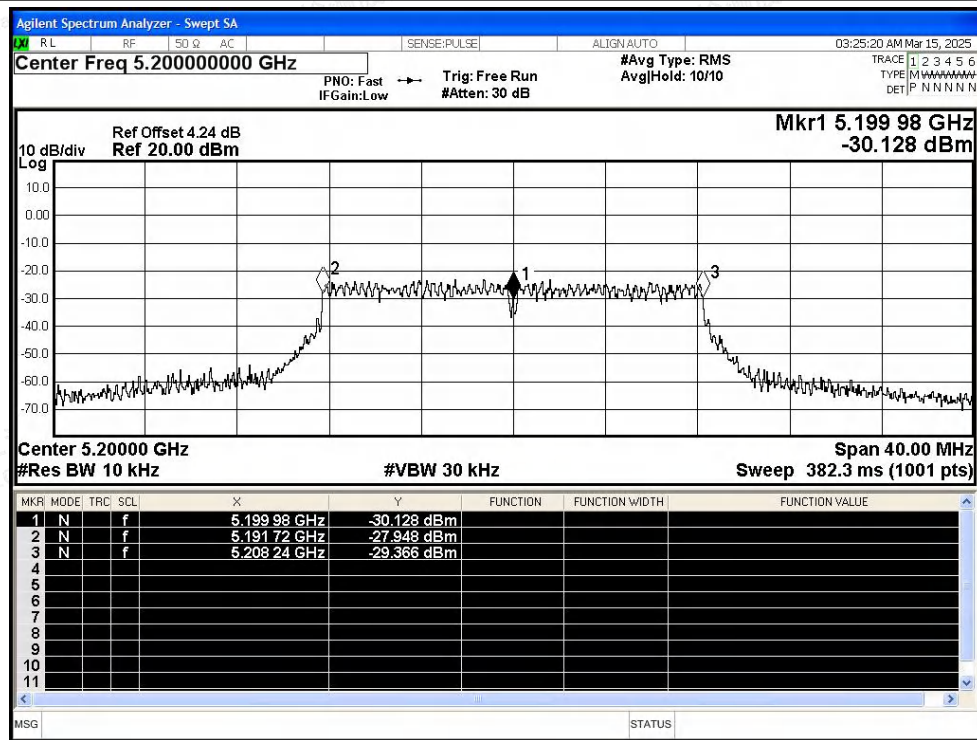


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1

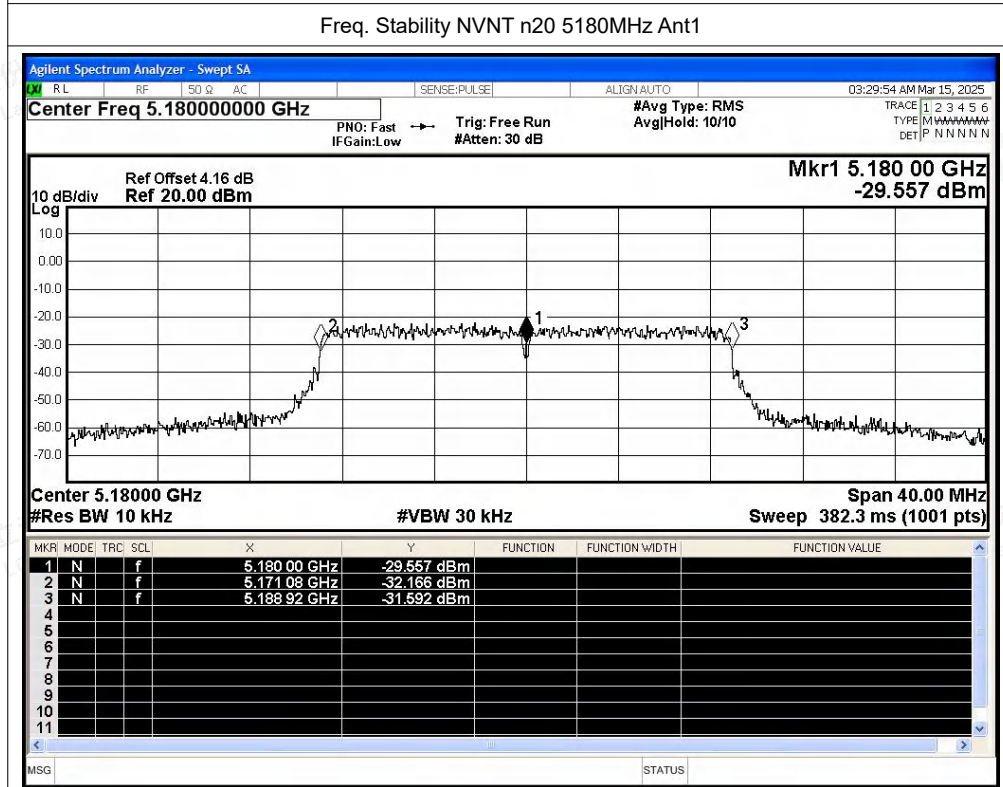
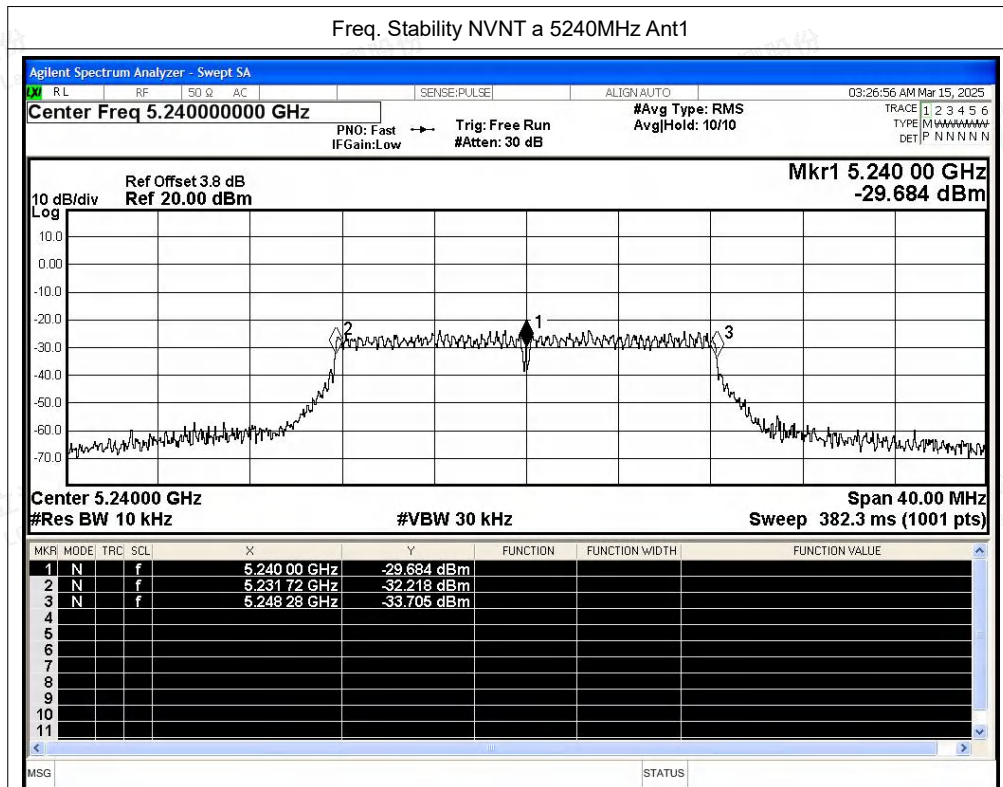


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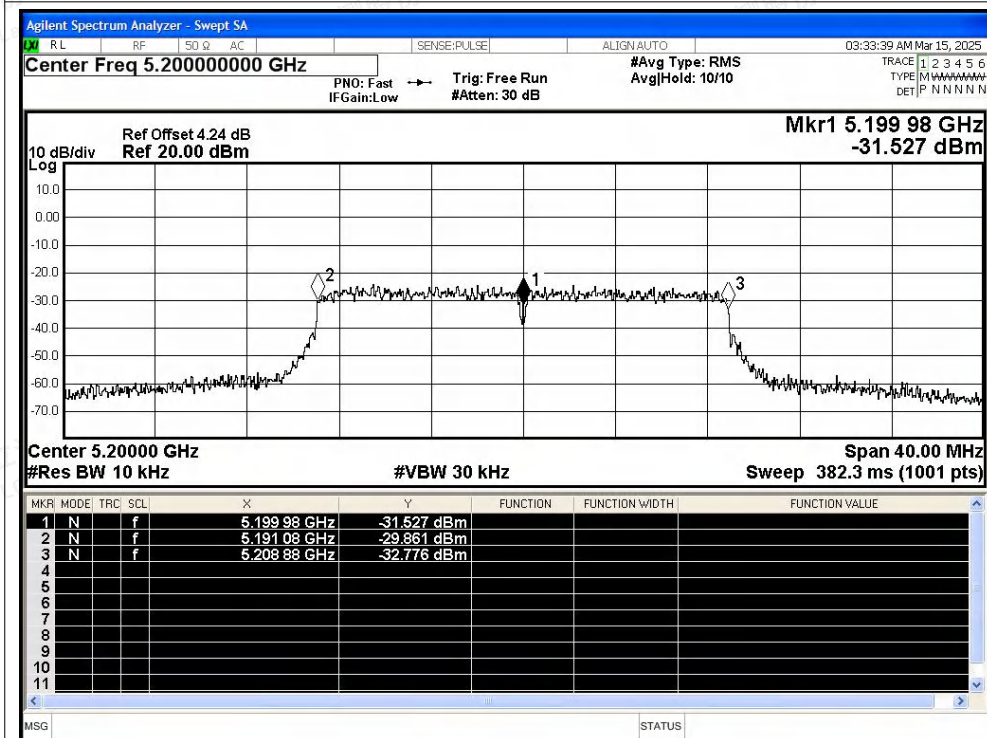
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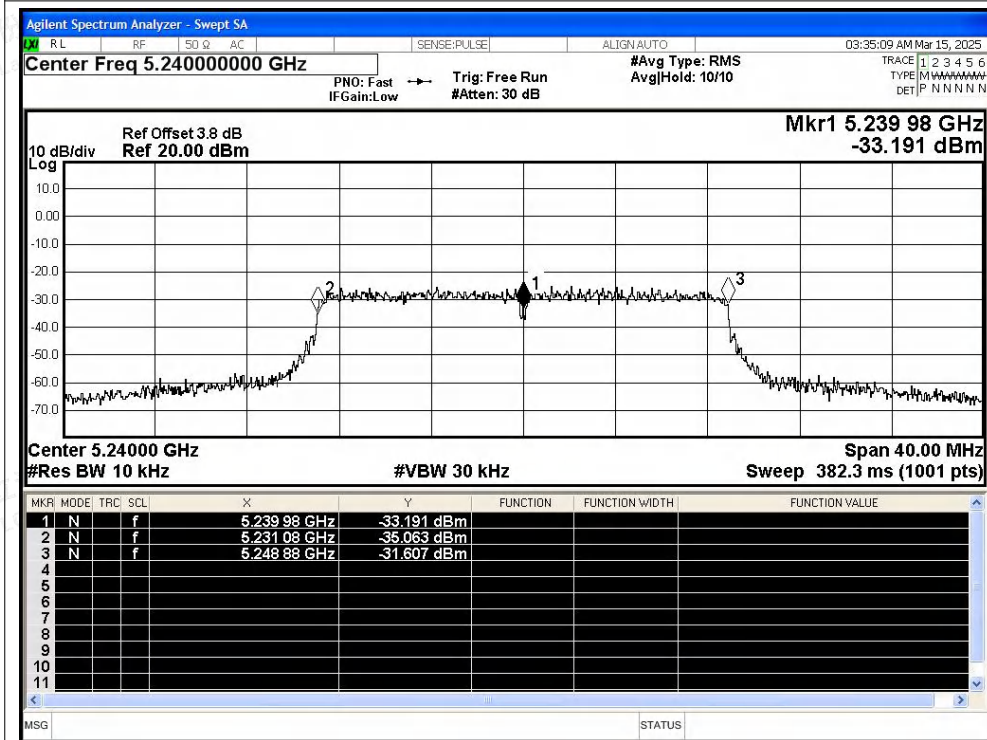
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Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1

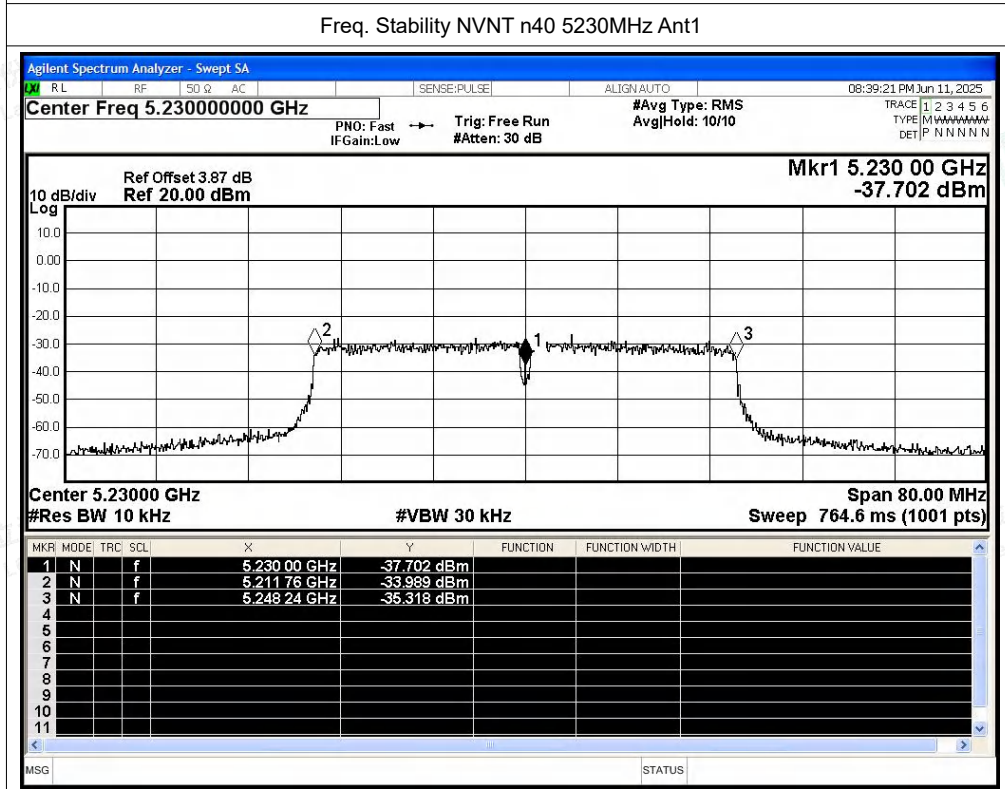
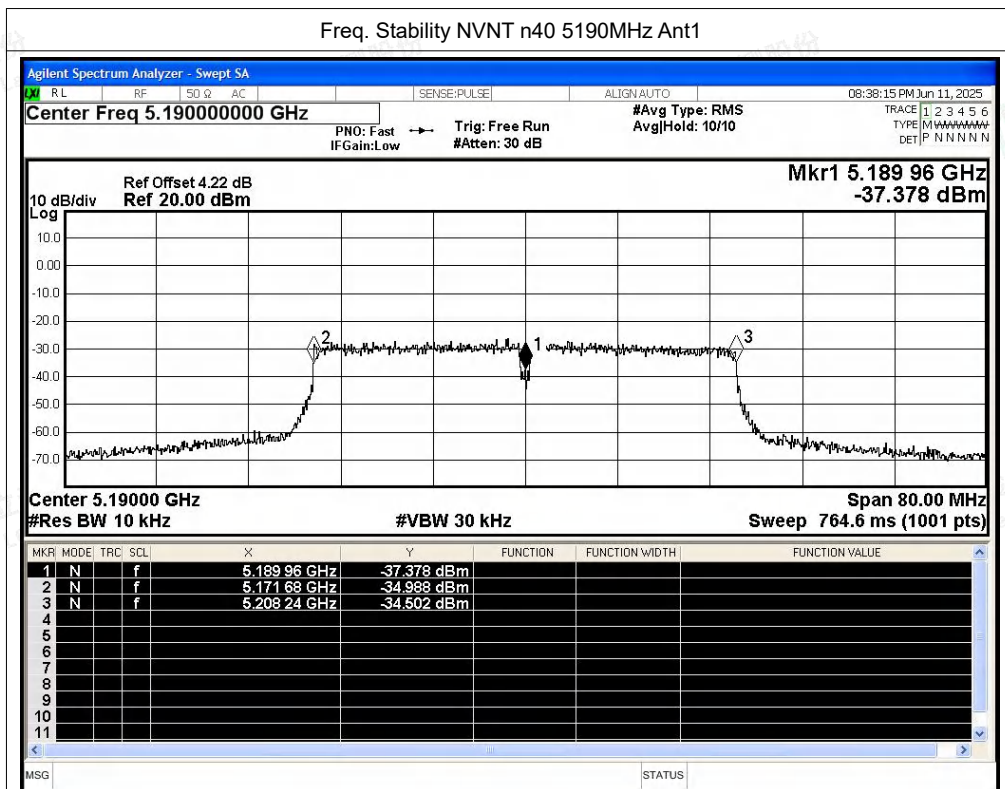


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D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.56	0.24	0.91
NVNT	a	5200	Ant1	94.56	0.24	0.91
NVNT	a	5240	Ant1	94.56	0.24	0.91
NVNT	n20	5180	Ant1	97.29	0.12	0.44
NVNT	n20	5200	Ant1	97.29	0.12	0.44
NVNT	n20	5240	Ant1	97.29	0.12	0.44
NVNT	n40	5190	Ant1	94.71	0.24	0.9
NVNT	n40	5230	Ant1	94.71	0.24	0.9

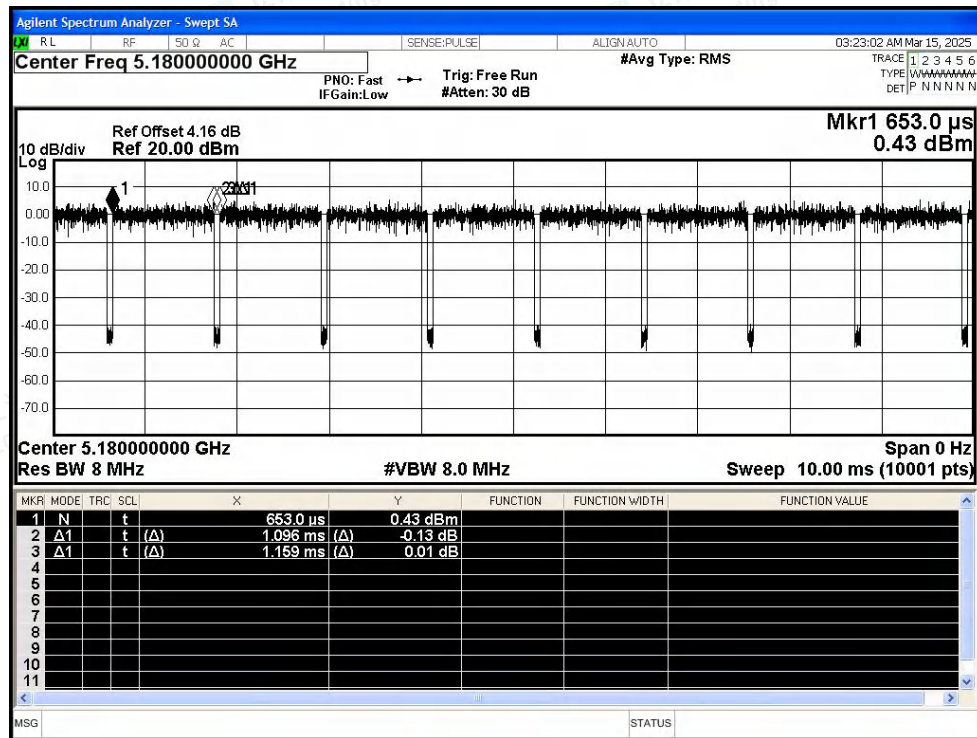


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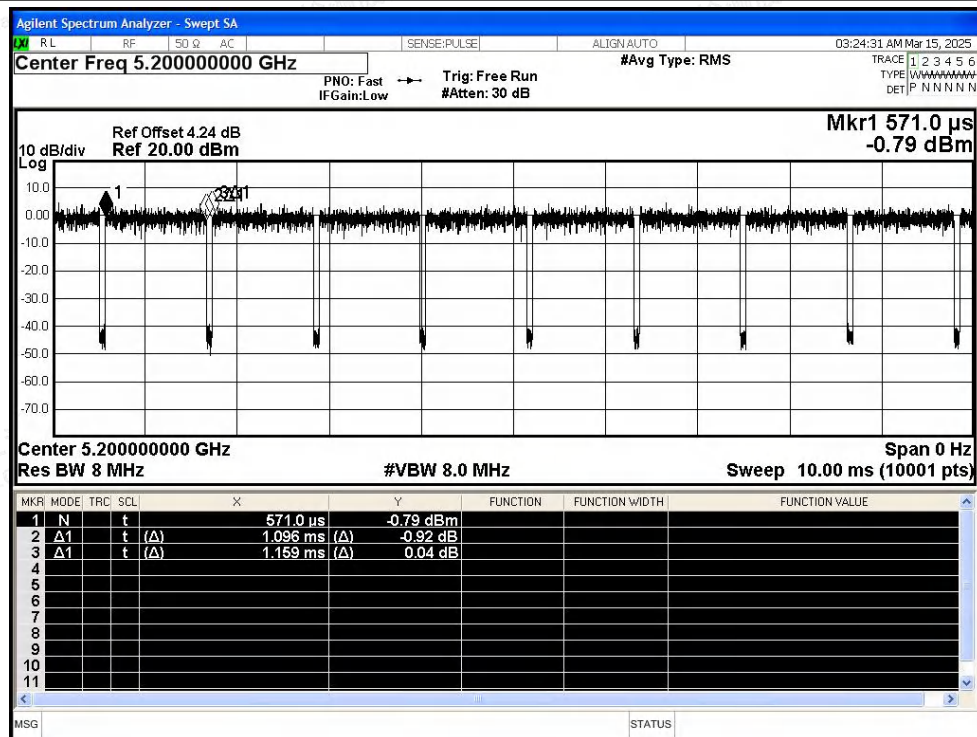


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1

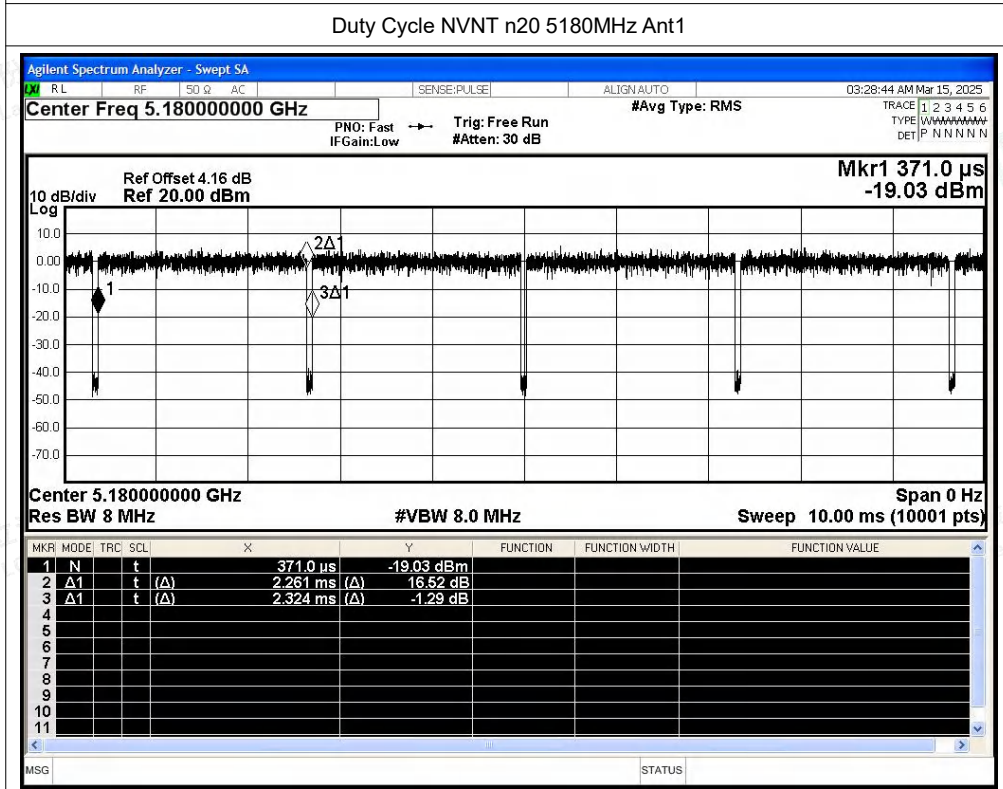
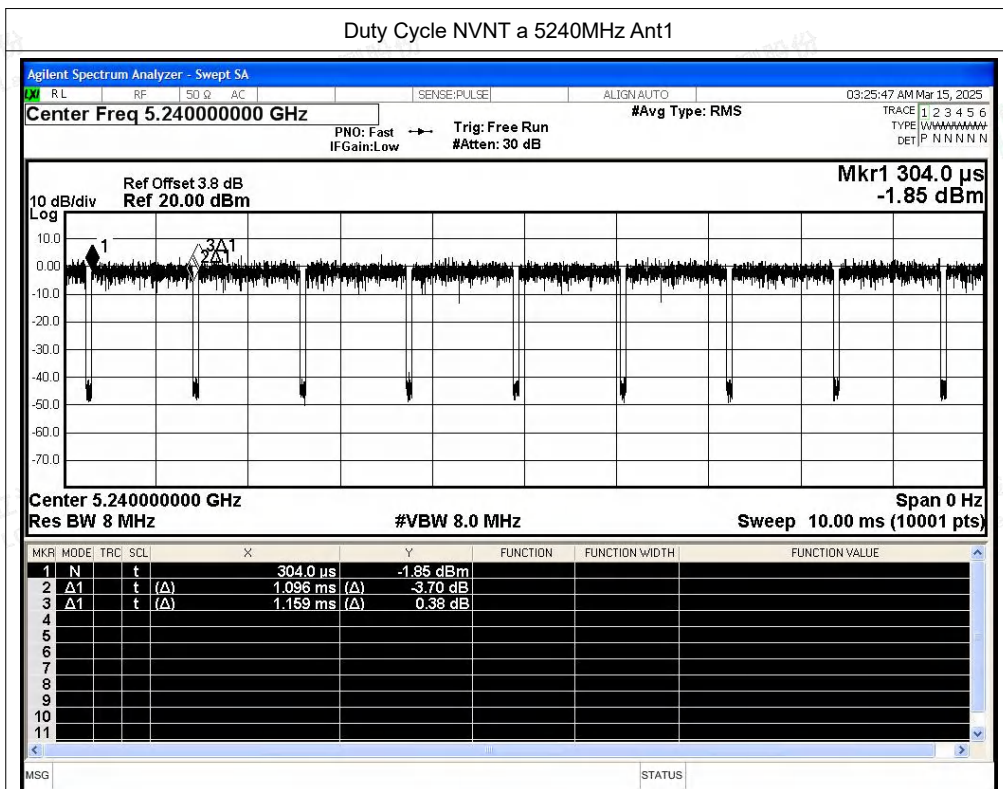


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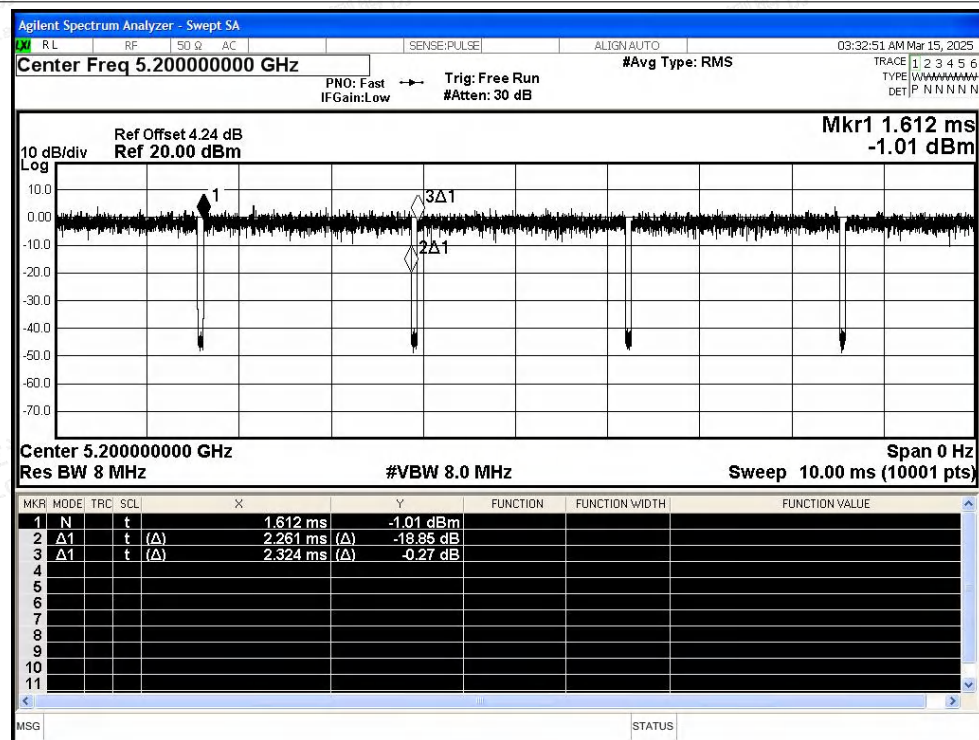
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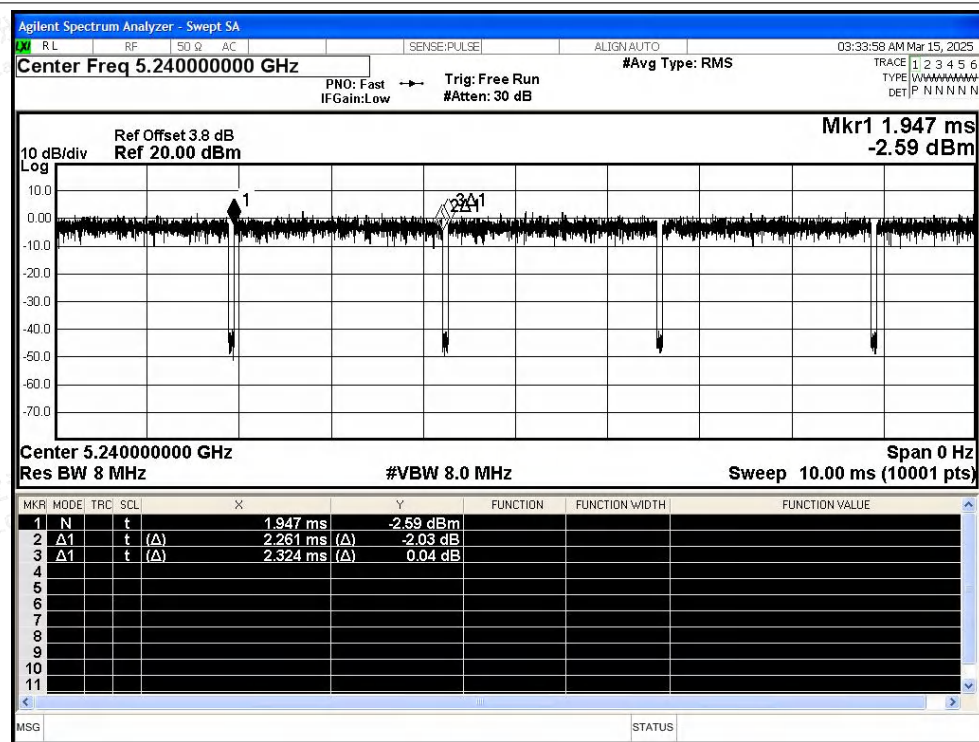
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Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1

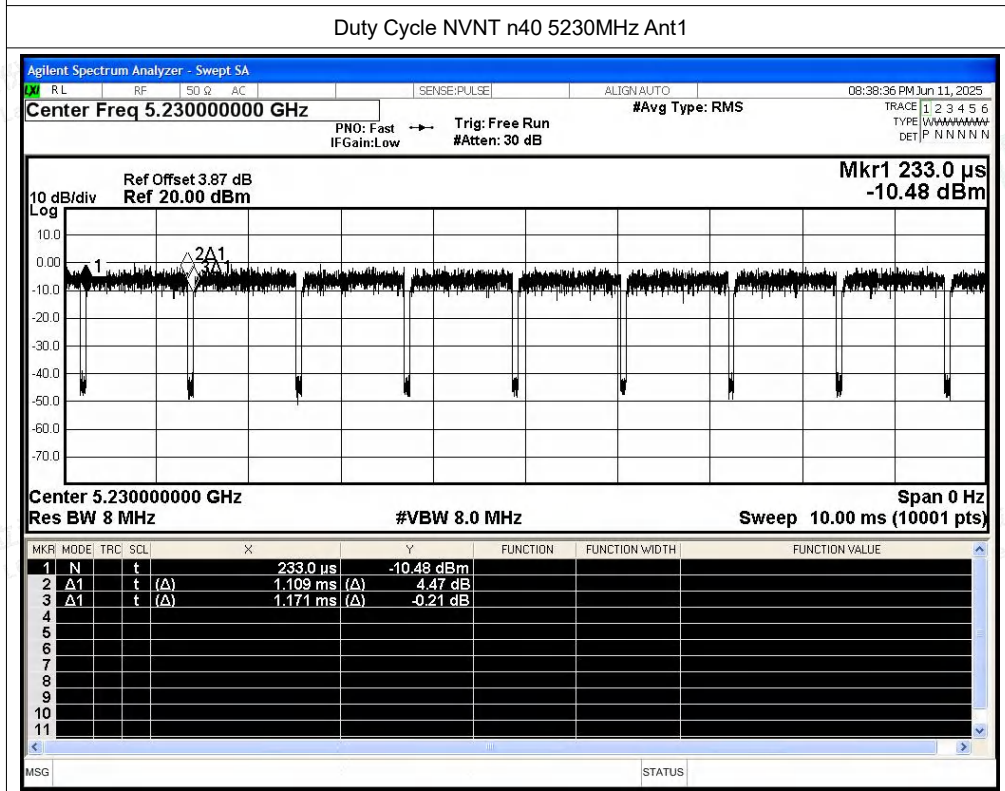
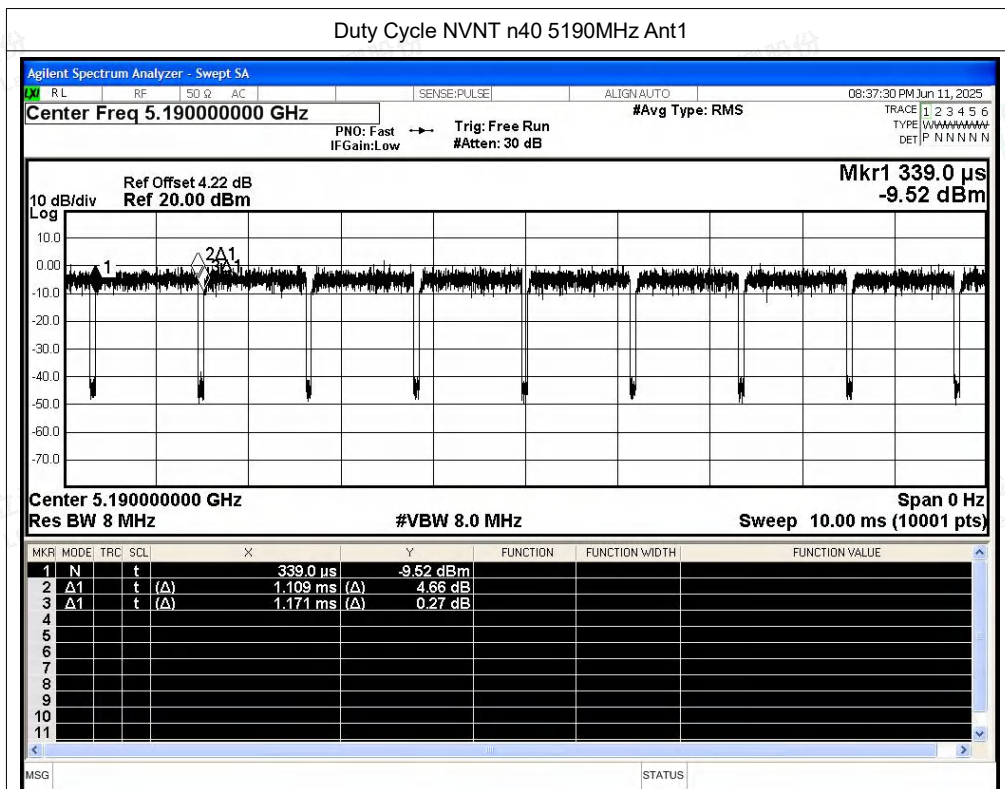


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