



Appendix B

RF Test Data for 5.2G SRD (Conducted Measurement)

Product Name: Light Quadcopter UAV

Test Model: S220 Pro

Environmental Conditions

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



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B.1 -26dB Bandwidth

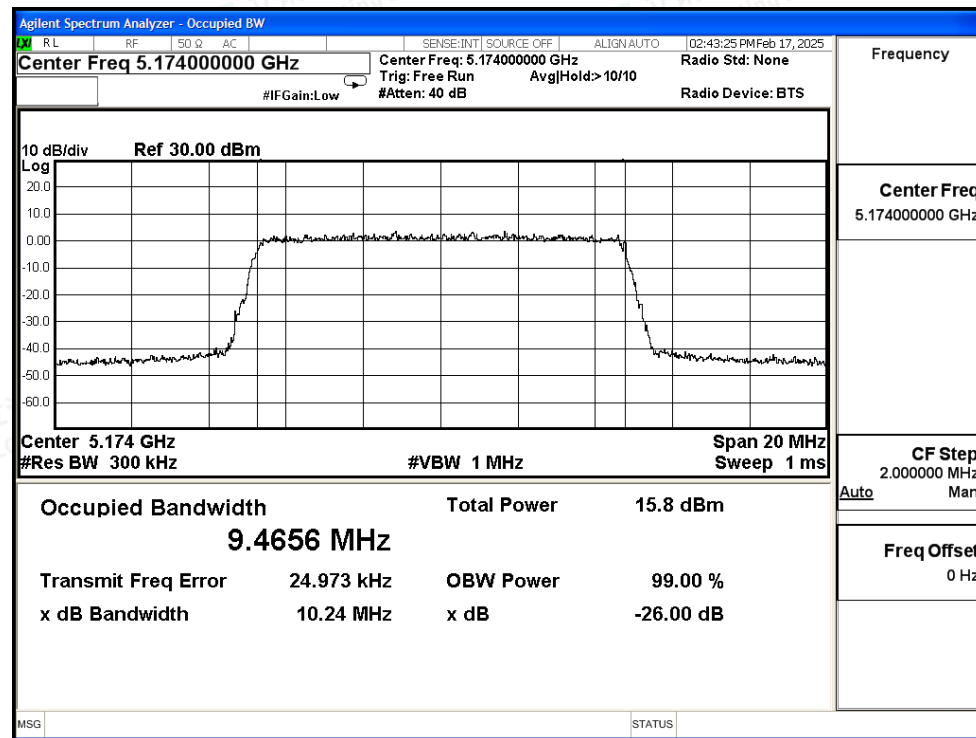
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	10.24	---	Pass
NVNT	10MHz Bandwidth	5207	Ant1	10.19	---	Pass
NVNT	10MHz Bandwidth	5240	Ant1	10.17	---	Pass
NVNT	20MHz Bandwidth	5174	Ant1	19.96	---	Pass
NVNT	20MHz Bandwidth	5207	Ant1	19.84	---	Pass
NVNT	20MHz Bandwidth	5240	Ant1	20.06	---	Pass



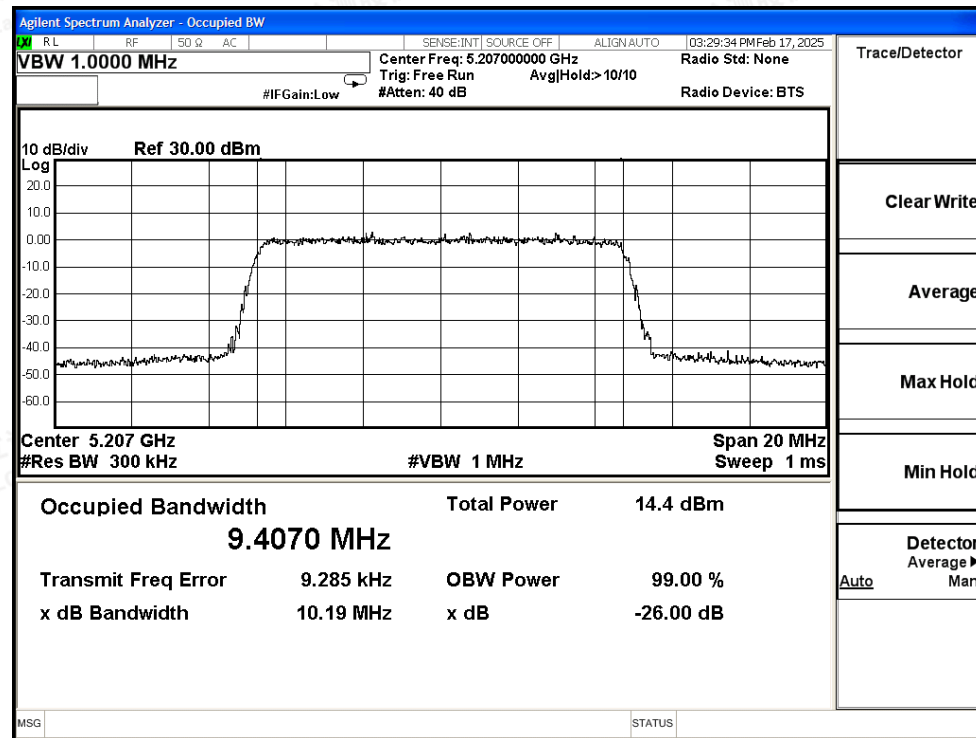


Test Graphs

-26dB Bandwidth NVNT 10MHz Bandwidth 5174MHz Ant1



-26dB Bandwidth NVNT 10MHz Bandwidth 5207MHz Ant1

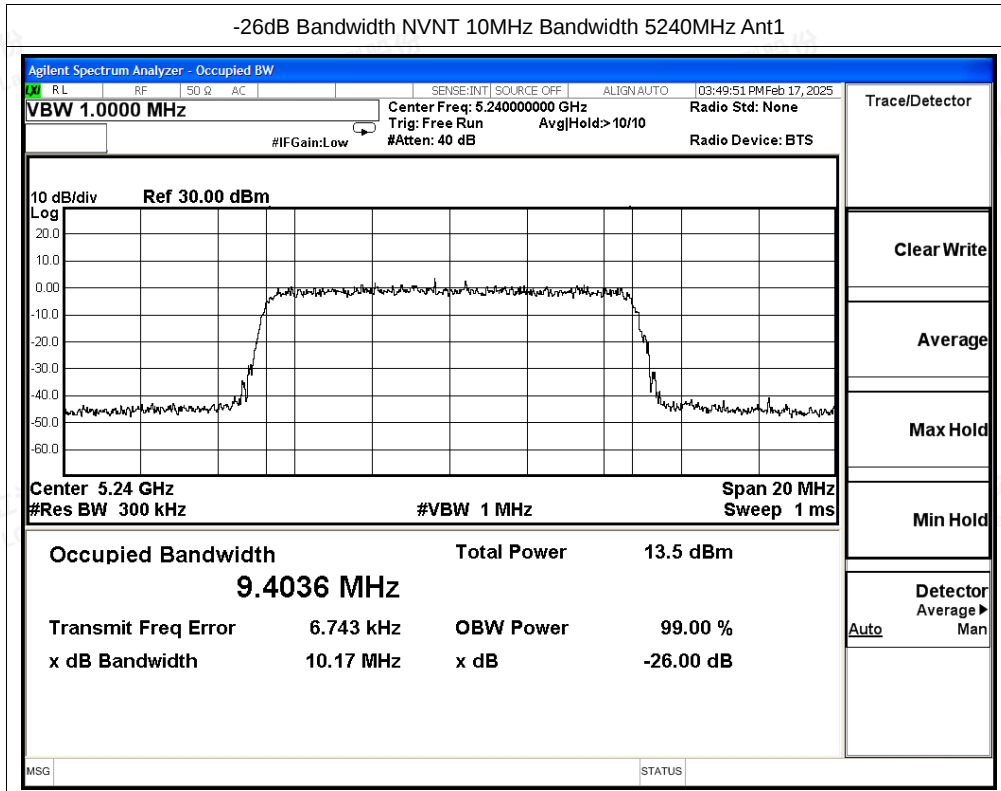


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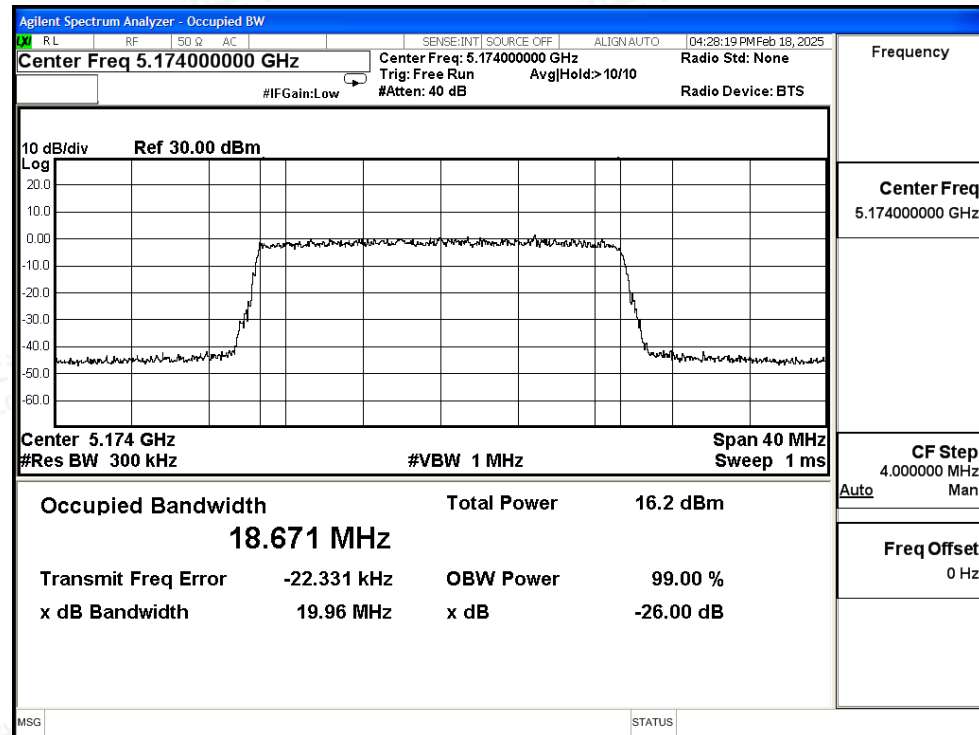
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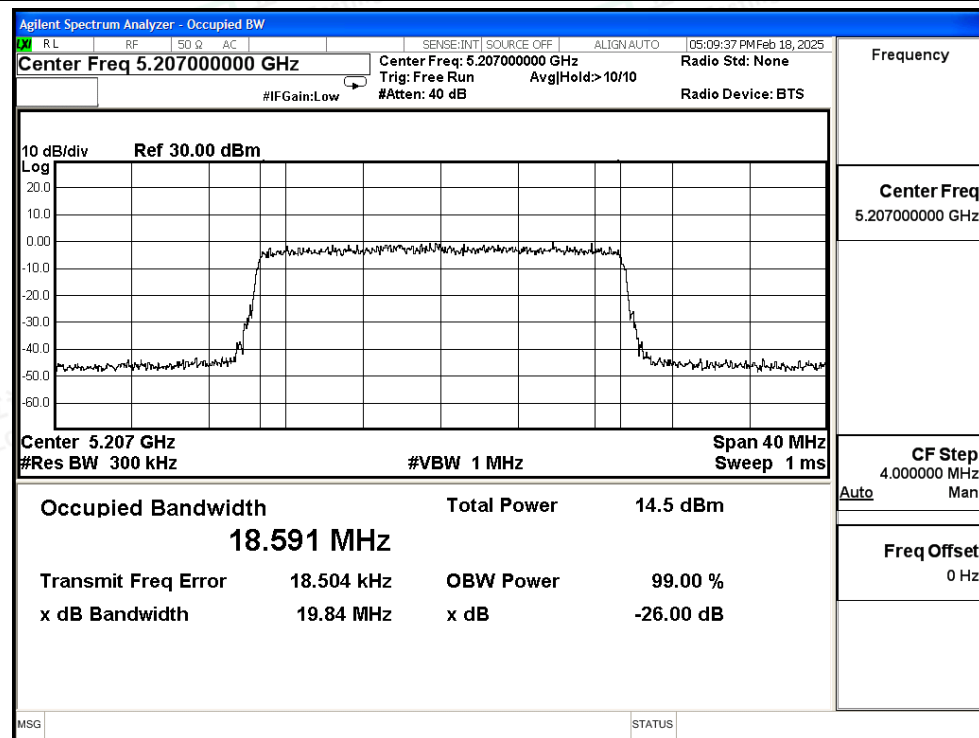


Test Graphs

-26dB Bandwidth NVNT 20MHz Bandwidth 5174MHz Ant1



-26dB Bandwidth NVNT 20MHz Bandwidth 5207MHz Ant1

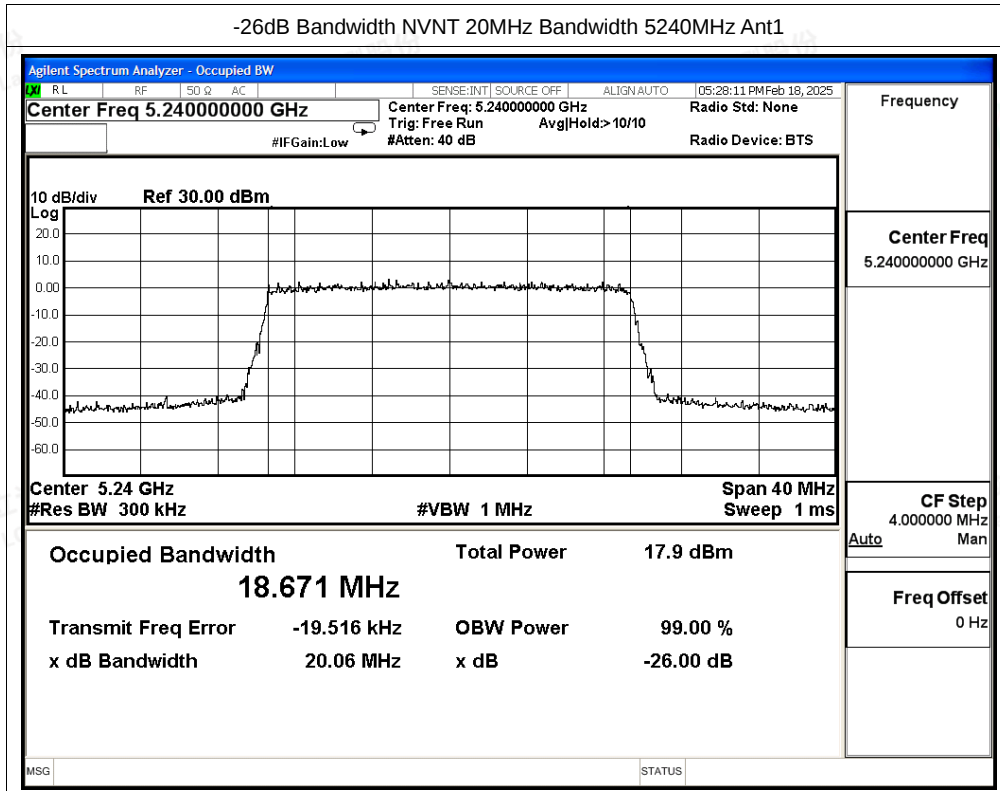


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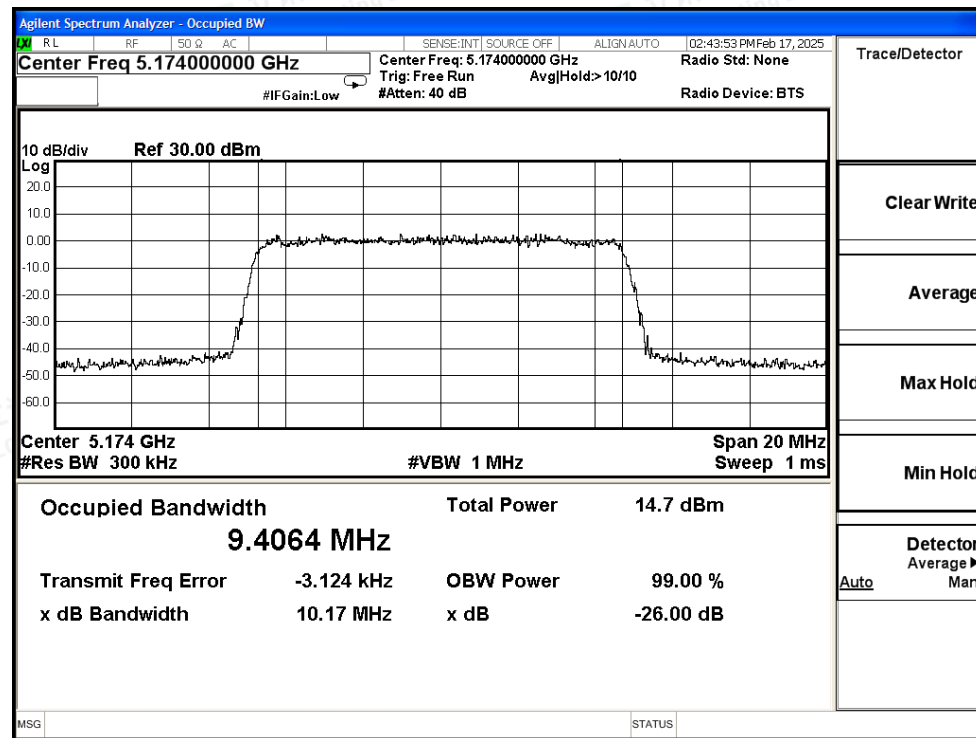
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NVNT	10MHz Bandwidth	5174	Ant2	10.17	---	Pass
NVNT	10MHz Bandwidth	5207	Ant2	10.10	---	Pass
NVNT	10MHz Bandwidth	5240	Ant2	10.14	---	Pass
NVNT	20MHz Bandwidth	5174	Ant2	19.78	---	Pass
NVNT	20MHz Bandwidth	5207	Ant2	19.97	---	Pass
NVNT	20MHz Bandwidth	5240	Ant2	20.06	---	Pass



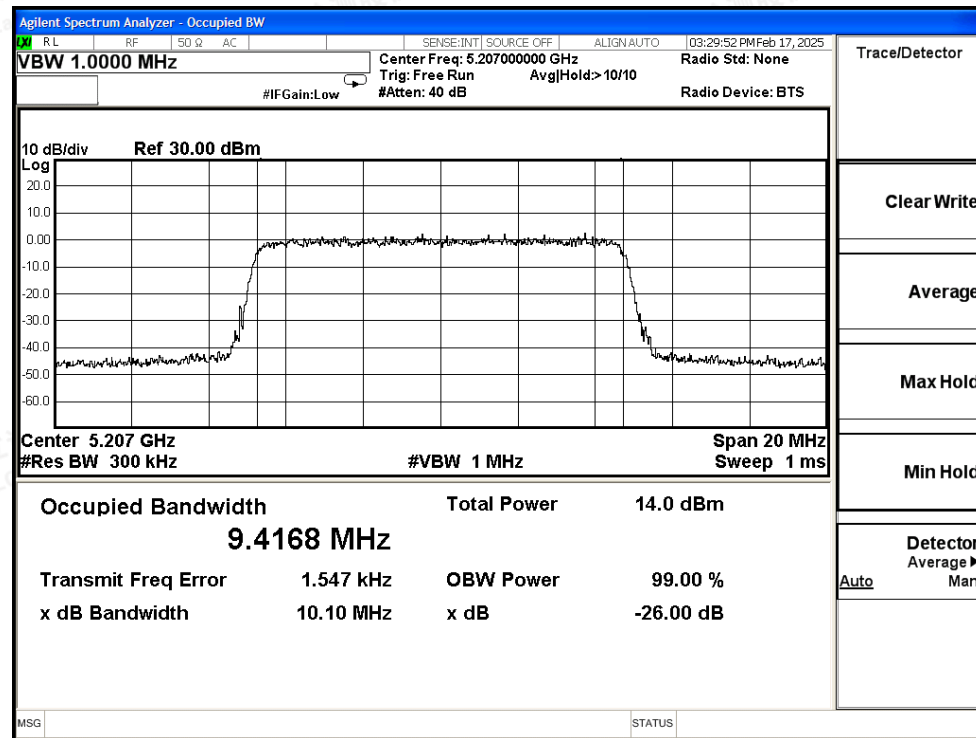


Test Graphs

-26dB Bandwidth NVNT 10MHz Bandwidth 5174MHz Ant2



-26dB Bandwidth NVNT 10MHz Bandwidth 5207MHz Ant2

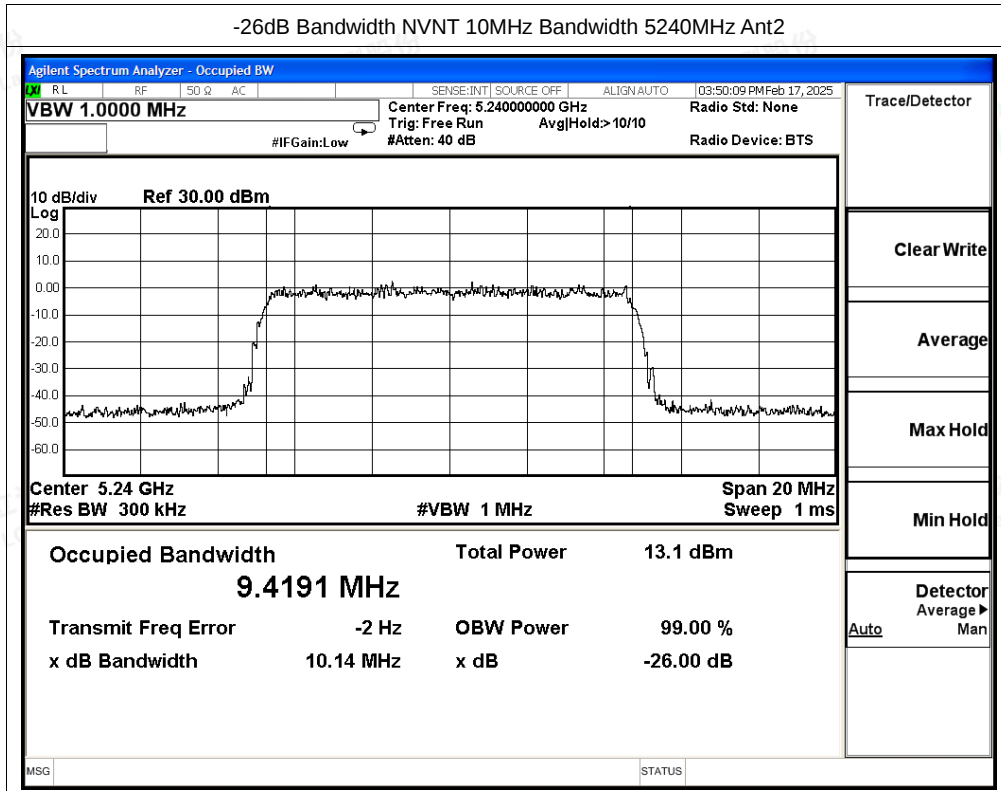


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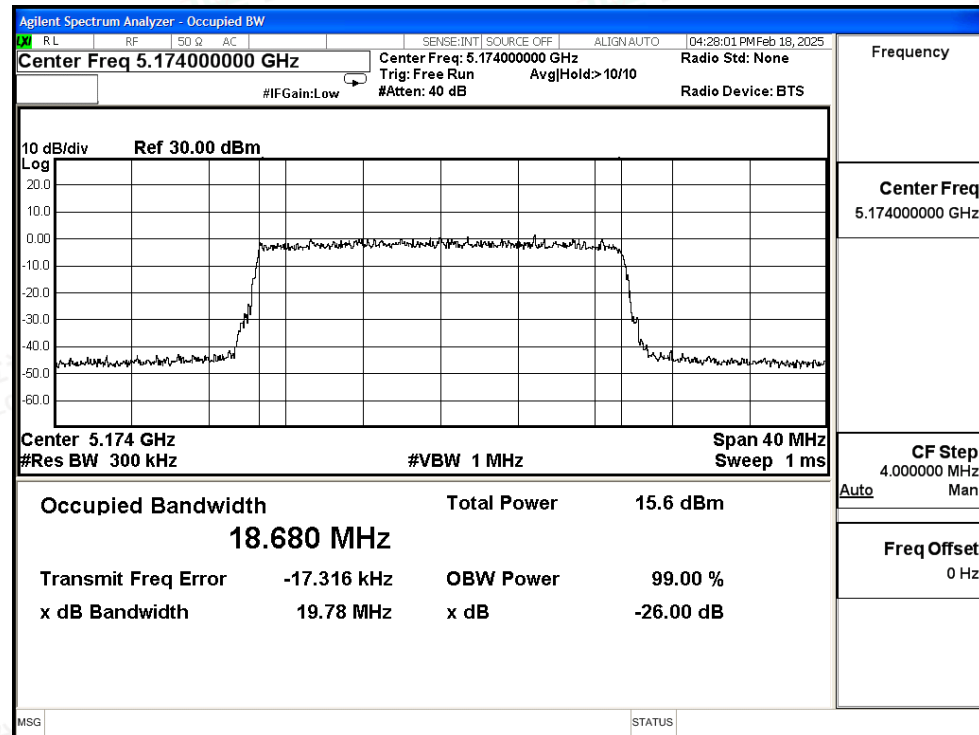
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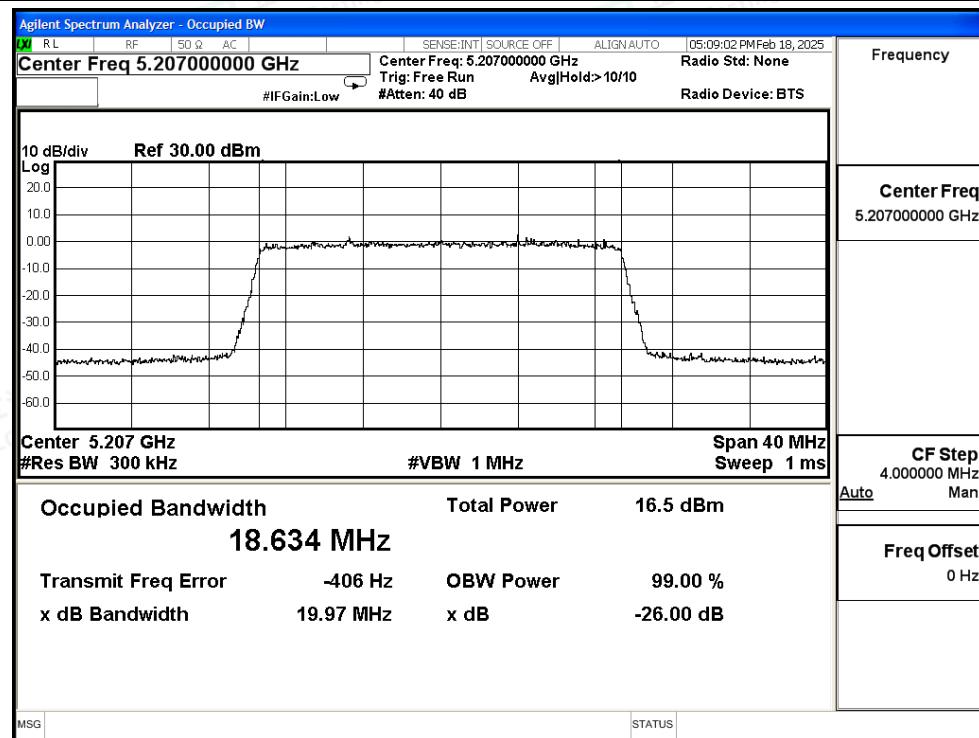


Test Graphs

-26dB Bandwidth NVNT 20MHz Bandwidth 5174MHz Ant2



-26dB Bandwidth NVNT 20MHz Bandwidth 5207MHz Ant2

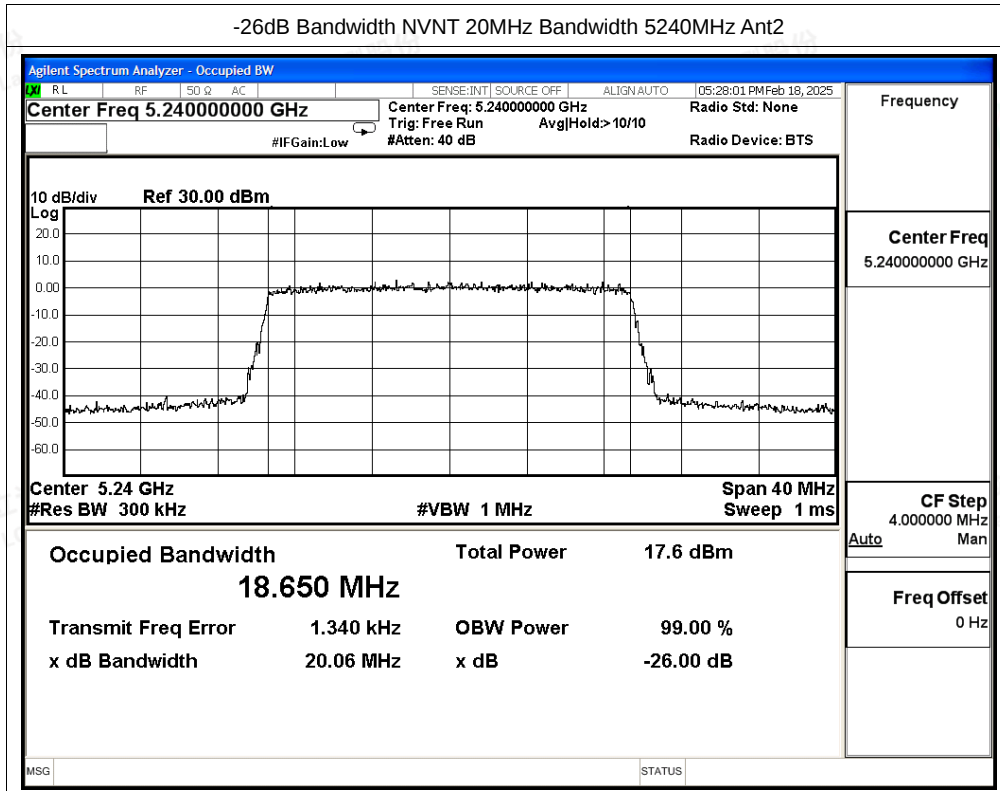


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	11.45	1.37	12.82	24	Pass
NVNT	10MHz Bandwidth	5207	Ant1	10.12	1.37	11.49	24	Pass
NVNT	10MHz Bandwidth	5240	Ant1	9.42	1.37	10.79	24	Pass
NVNT	20MHz Bandwidth	5174	Ant1	11.75	1.4	13.15	24	Pass
NVNT	20MHz Bandwidth	5207	Ant1	10.62	1.35	11.97	24	Pass
NVNT	20MHz Bandwidth	5240	Ant1	12.99	1.36	14.35	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	12.4	1.4	13.8	24	Pass
NVNT	10MHz Bandwidth	5207	Ant2	10.69	1.37	12.06	24	Pass
NVNT	10MHz Bandwidth	5240	Ant2	10.08	1.38	11.46	24	Pass
NVNT	20MHz Bandwidth	5174	Ant2	12.13	1.4	13.53	24	Pass
NVNT	20MHz Bandwidth	5207	Ant2	11.24	1.35	12.59	24	Pass
NVNT	20MHz Bandwidth	5240	Ant2	12.54	1.39	13.93	24	Pass



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B.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	10MHz Bandwidth	5174	Ant1	2.010	1.37	3.38	11	Pass
NVNT	10MHz Bandwidth	5207	Ant1	3.454	1.37	4.824	11	Pass
NVNT	10MHz Bandwidth	5240	Ant1	1.083	1.37	2.453	11	Pass
NVNT	20MHz Bandwidth	5174	Ant1	3.712	1.4	5.112	11	Pass
NVNT	20MHz Bandwidth	5207	Ant1	3.65	1.35	5	11	Pass
NVNT	20MHz Bandwidth	5240	Ant1	-0.292	1.36	1.068	11	Pass



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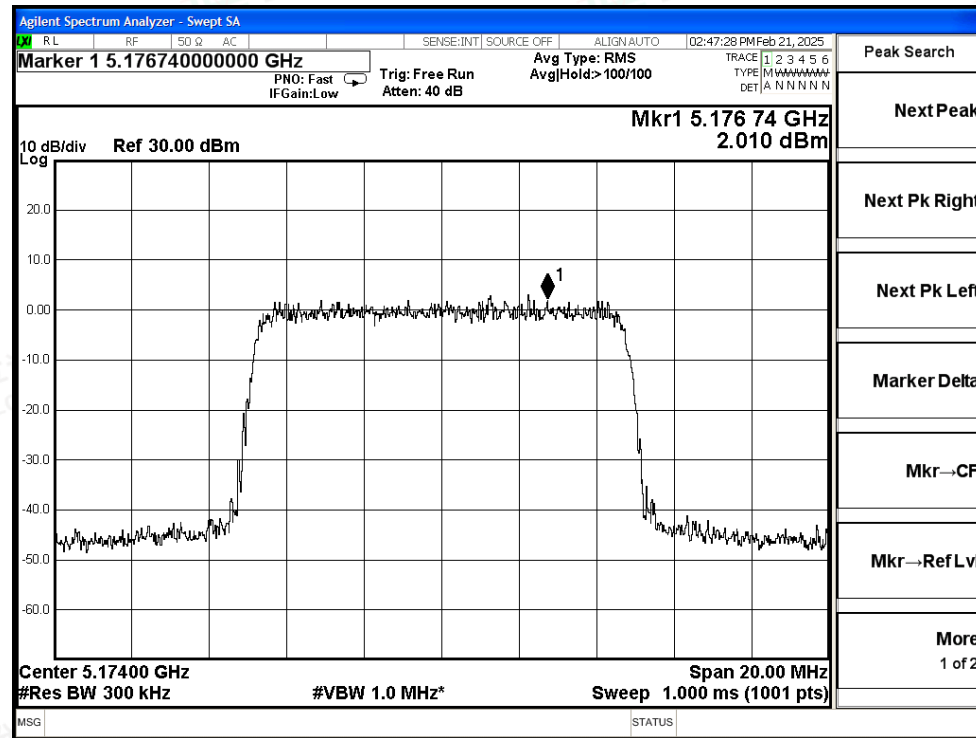
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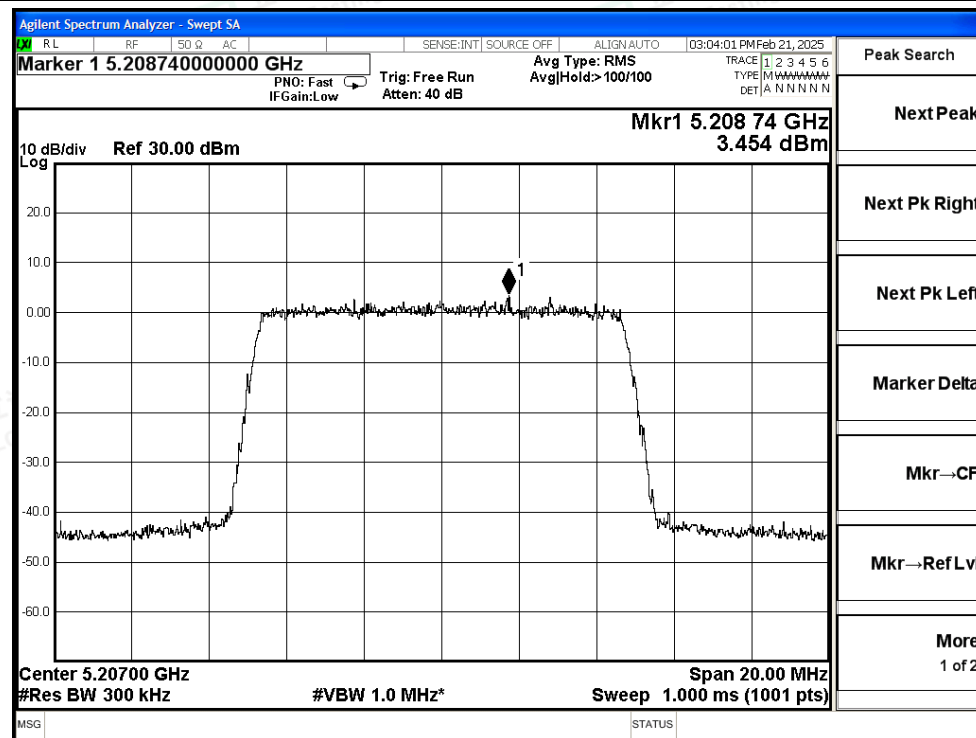


Test Graphs

PSD NVNT 10MHz Bandwidth 5174MHz Ant1



PSD NVNT 10MHz Bandwidth 5207MHz Ant1

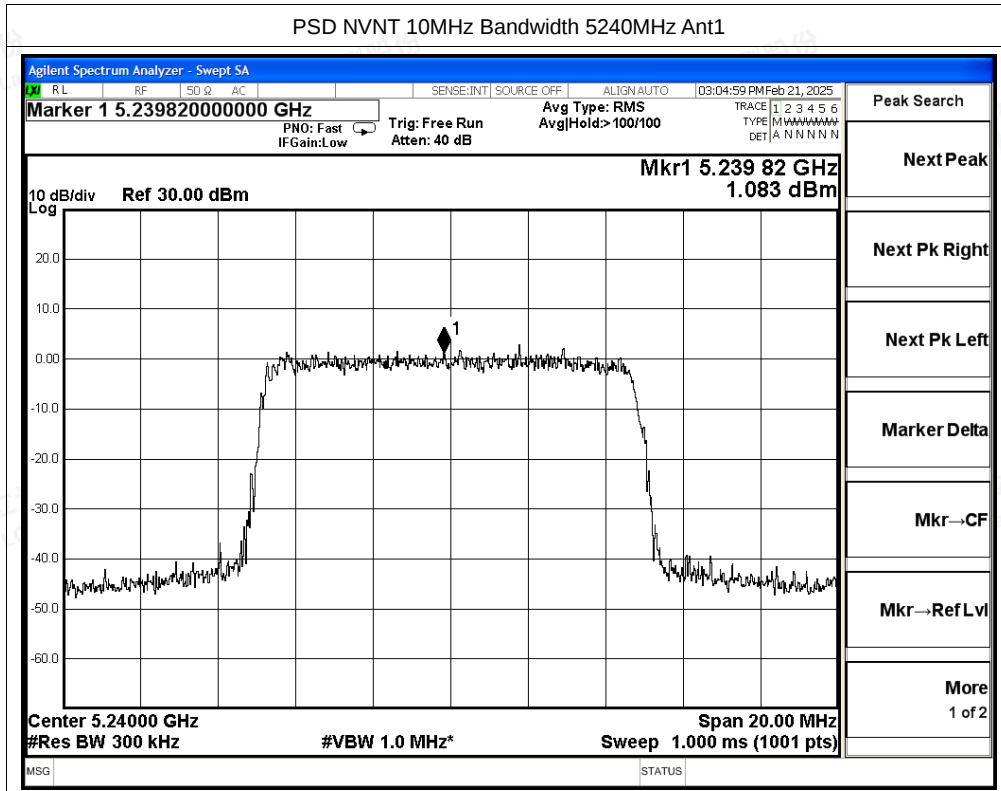


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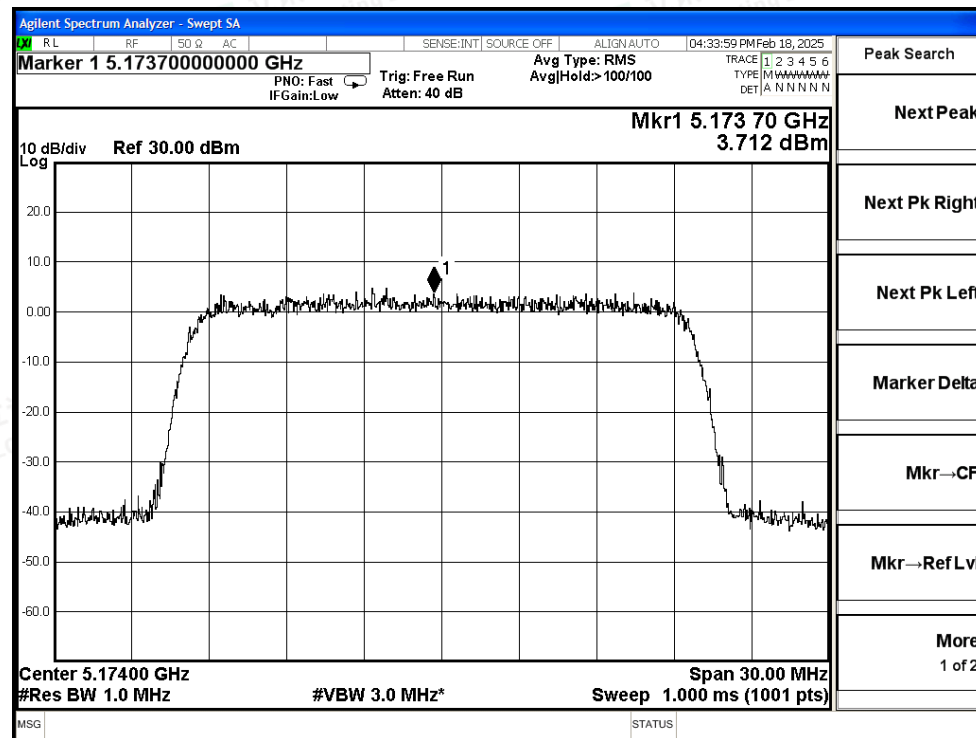
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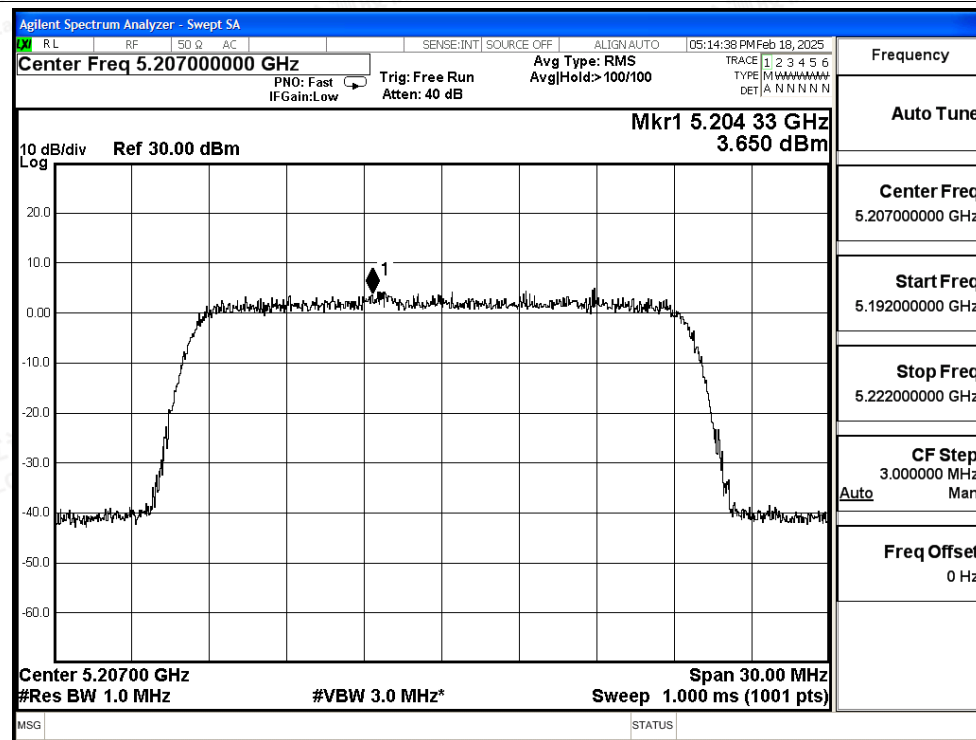


Test Graphs

PSD NVNT 20MHz Bandwidth 5174MHz Ant1



PSD NVNT 20MHz Bandwidth 5207MHz Ant1

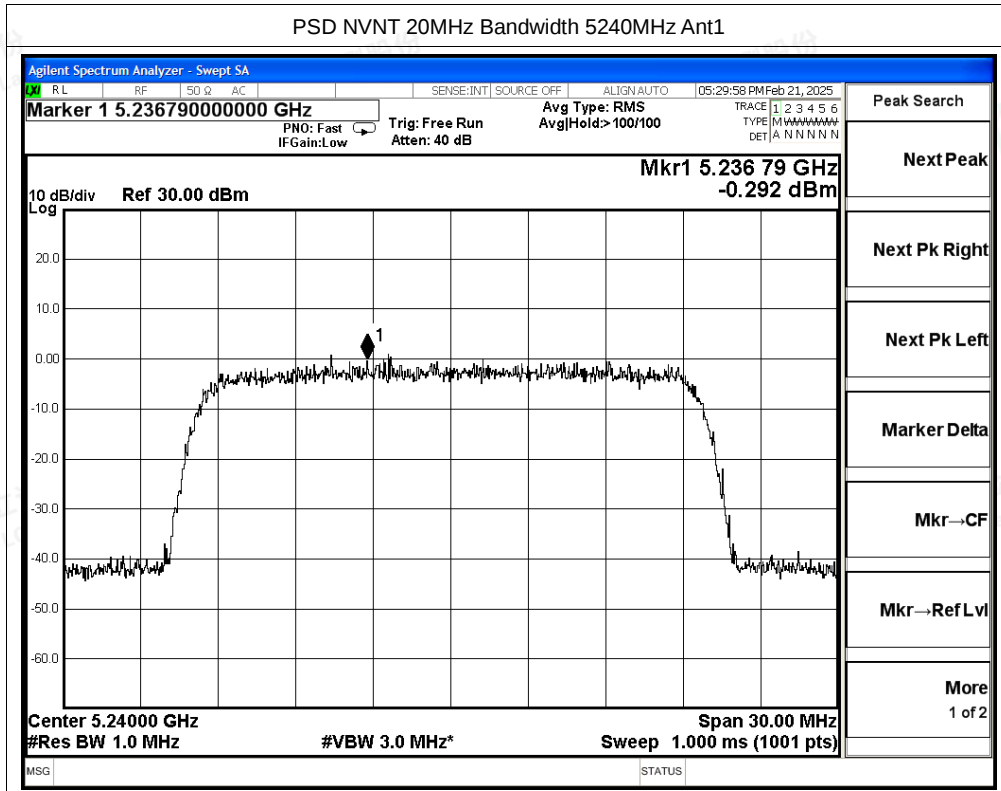


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Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	2.105	1.4	3.505	11	Pass
NVNT	10MHz Bandwidth	5207	Ant2	0.137	1.37	1.507	11	Pass
NVNT	10MHz Bandwidth	5240	Ant2	0.612	1.38	1.992	11	Pass
NVNT	20MHz Bandwidth	5174	Ant2	4.123	1.4	5.523	11	Pass
NVNT	20MHz Bandwidth	5207	Ant2	4.235	1.35	5.585	11	Pass
NVNT	20MHz Bandwidth	5240	Ant2	-0.196	1.39	1.194	11	Pass



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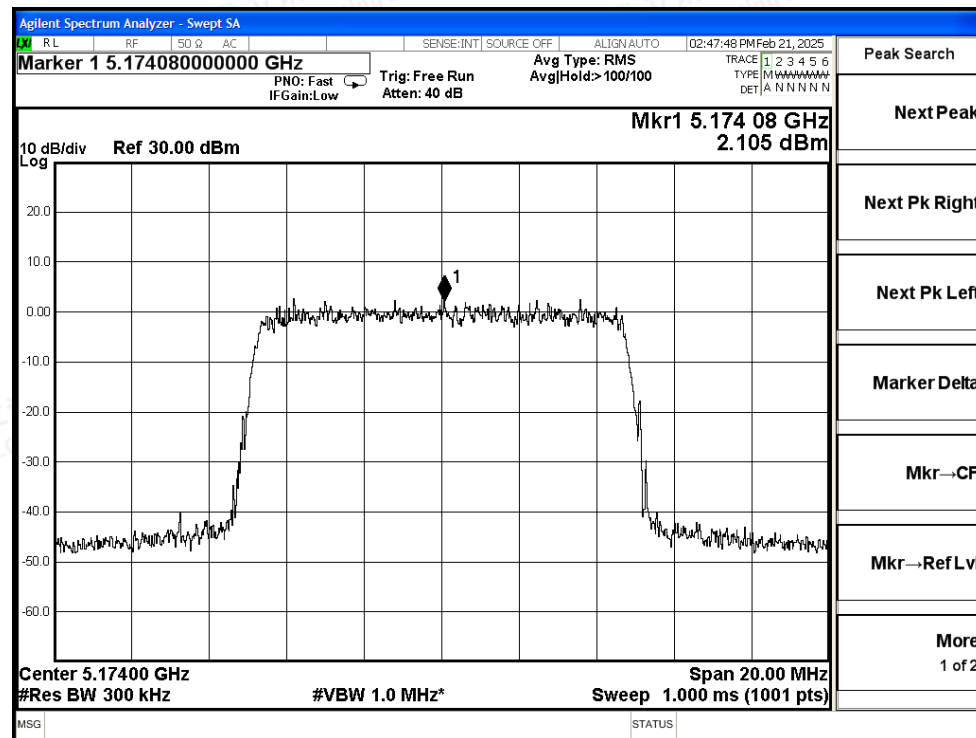
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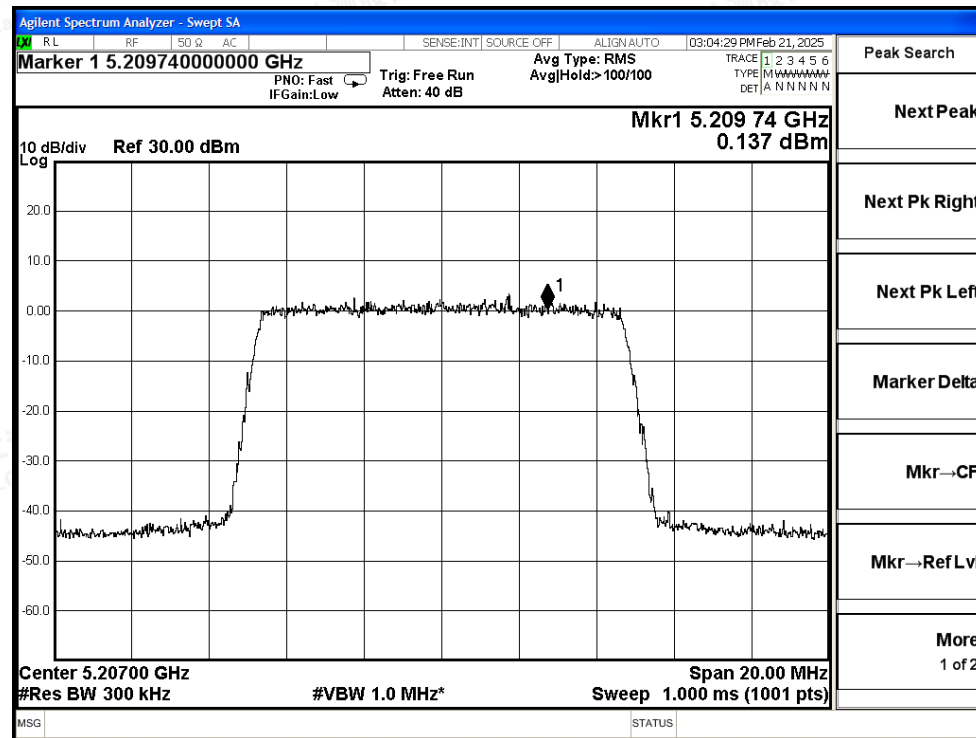


Test Graphs

PSD NVNT 10MHz Bandwidth 5174MHz Ant2



PSD NVNT 10MHz Bandwidth 5207MHz Ant2

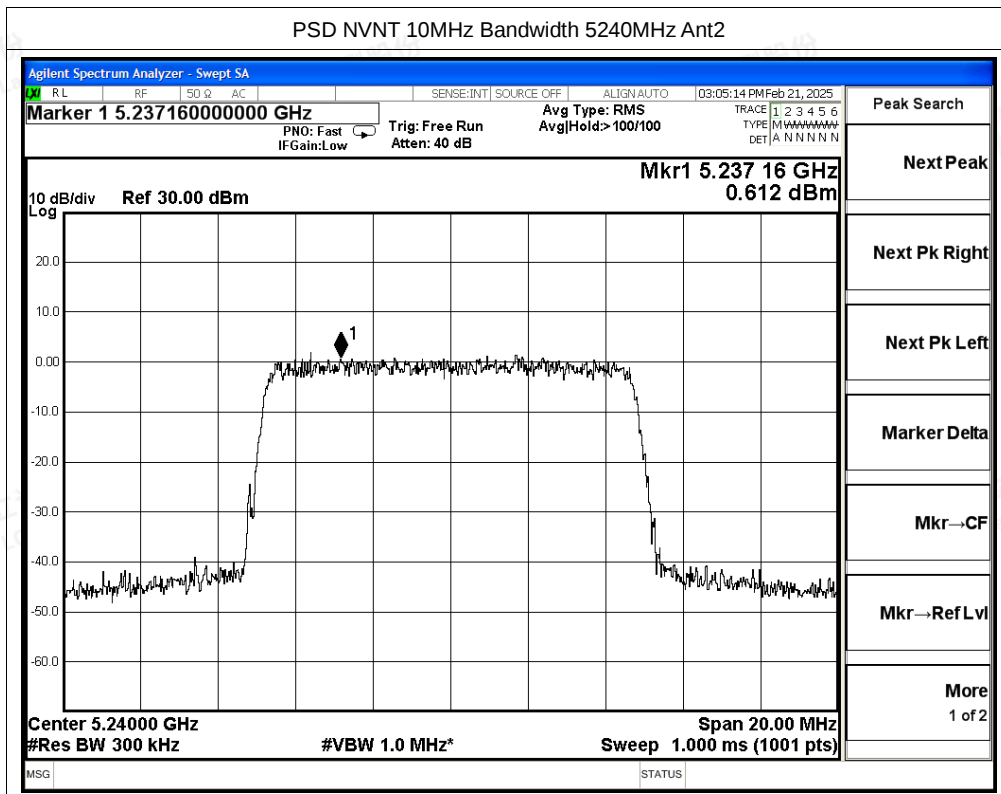


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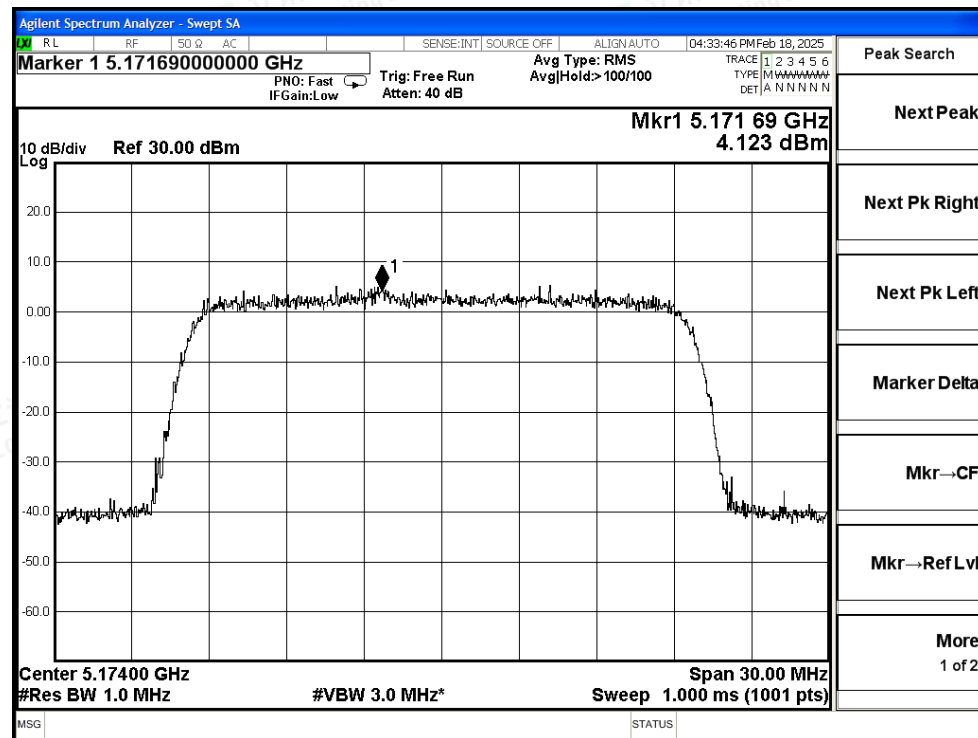
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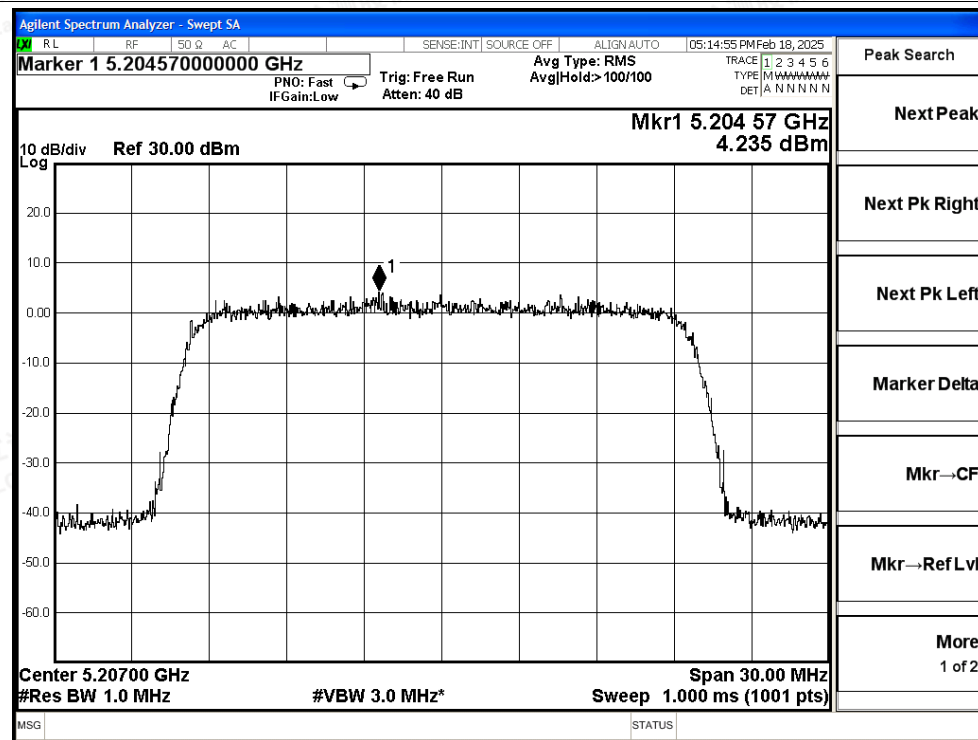


Test Graphs

PSD NVNT 20MHz Bandwidth 5174MHz Ant2



PSD NVNT 20MHz Bandwidth 5207MHz Ant2

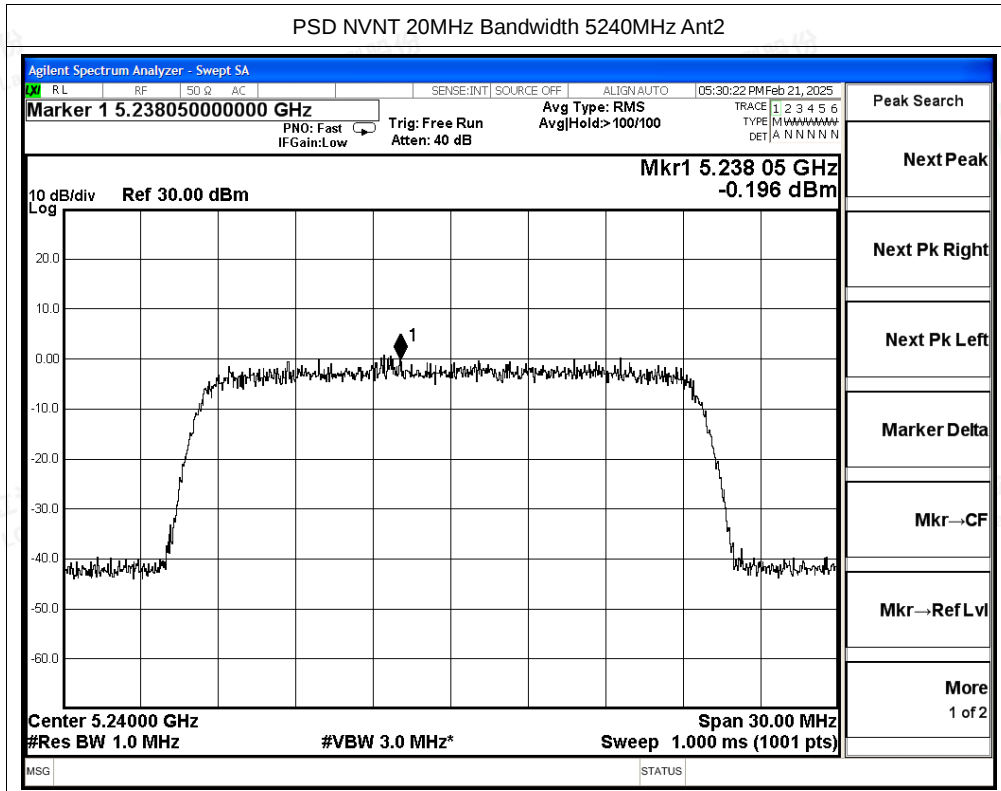


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B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	4500	-48.86	2.0	-	48.37	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	4500	-53.26	2.0	1.37	45.34	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5123.3	-47.43	2.0	-	49.8	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5133.1	-51.78	2.0	1.37	46.82	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5150	-48.59	2.0	-	48.64	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5150	-52.82	2.0	1.37	45.78	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5350	-50.49	2.0	-	46.74	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5350	-52.11	2.0	1.37	46.49	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5395.16	-49.25	2.0	-	47.98	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5398.04	-50.92	2.0	1.37	47.68	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5460	-50.06	2.0	-	47.17	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5460	-51.81	2.0	1.37	46.79	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	4500	-50.31	2.0	-	46.92	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	4500	-54.08	2.0	1.4	44.55	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5116.2	-49.82	2.0	-	47.41	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5108.5	-51.51	2.0	1.4	47.12	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5150	-49.92	2.0	-	47.31	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5150	-52.89	2.0	1.4	45.74	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5350	-48.35	2.0	-	48.88	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5350	-52.32	2.0	1.36	46.27	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5396.36	-48.6	2.0	-	48.63	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5392.28	-53.2	2.0	1.36	45.39	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5460	-48.64	2.0	-	48.59	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5460	-51.32	2.0	1.36	47.27	Average	54	Pass



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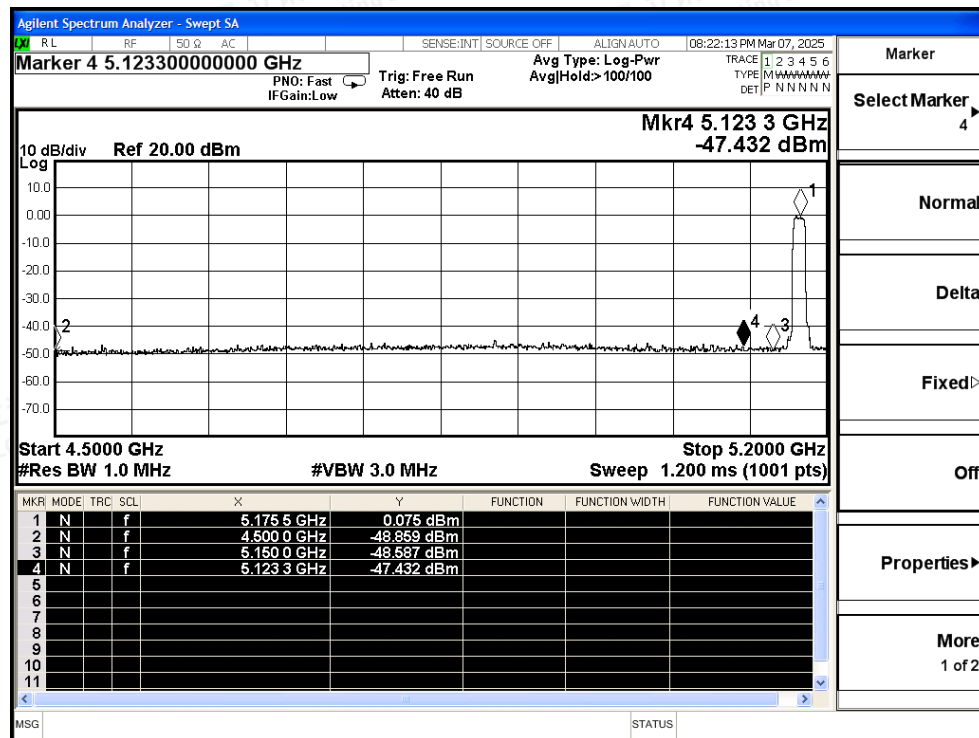
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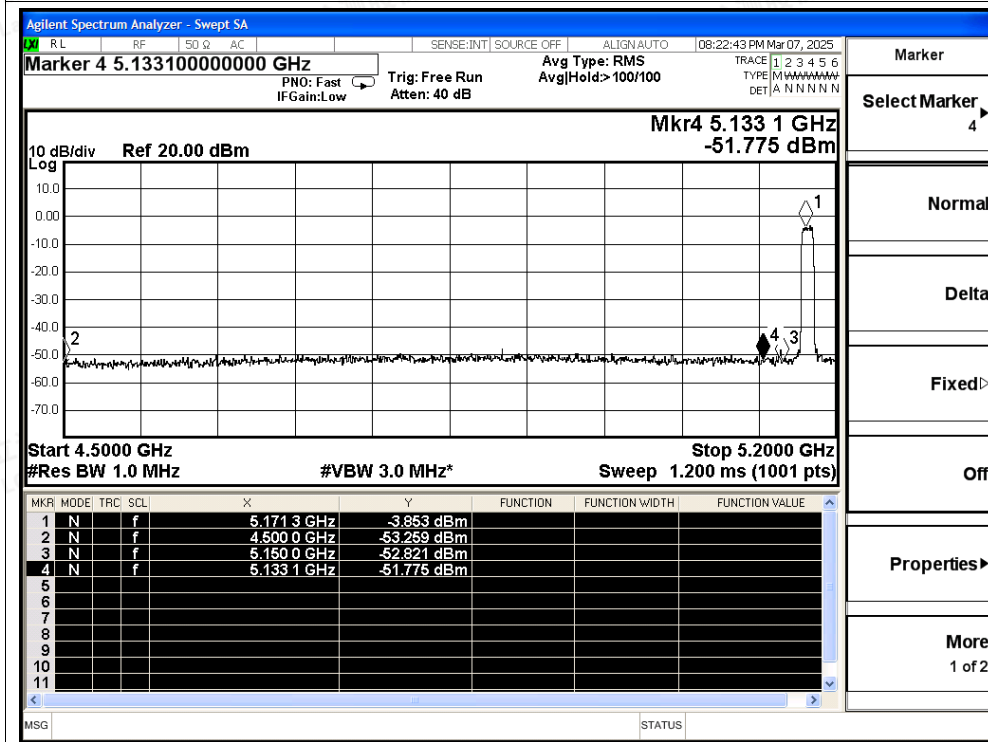


Test Graphs

Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant1 Peak



Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant1 Average



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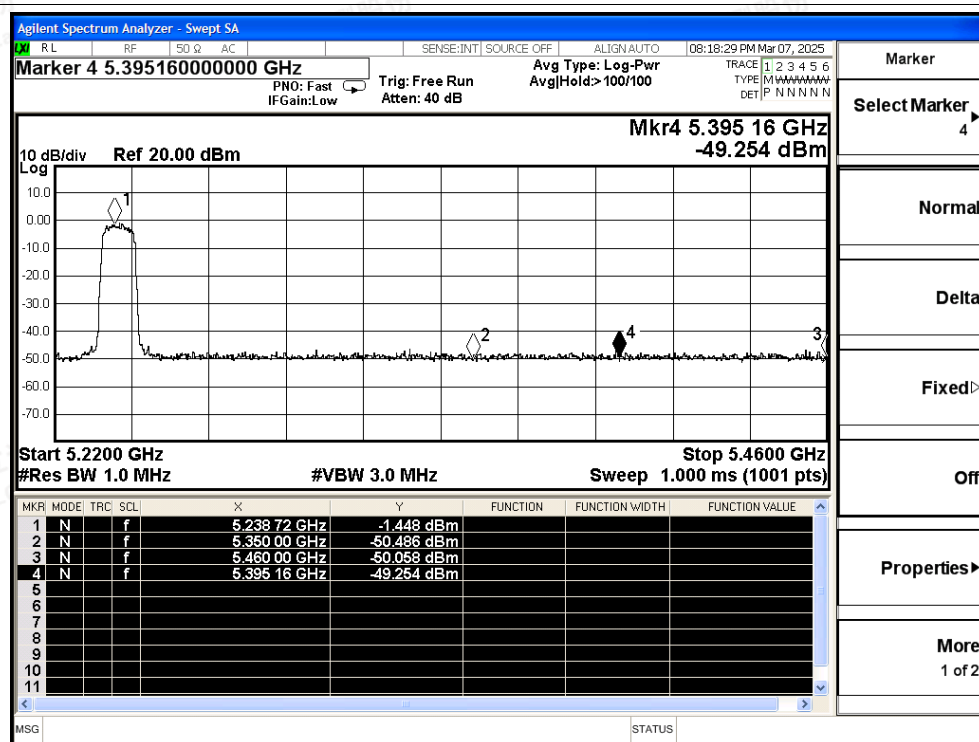
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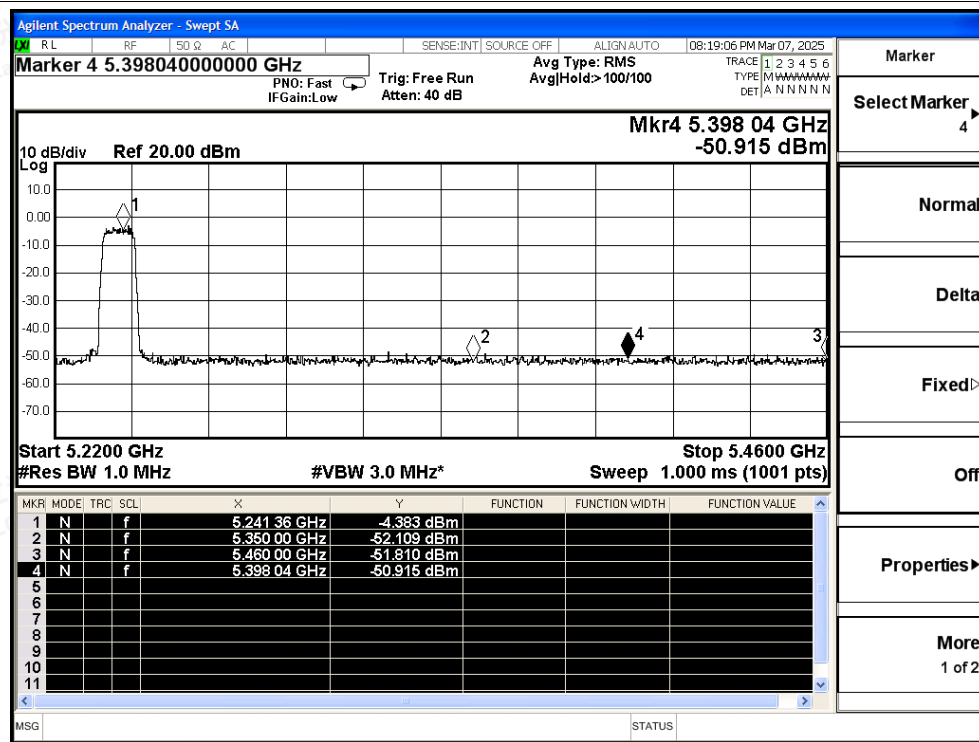
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Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant1 Peak



Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant1 Average



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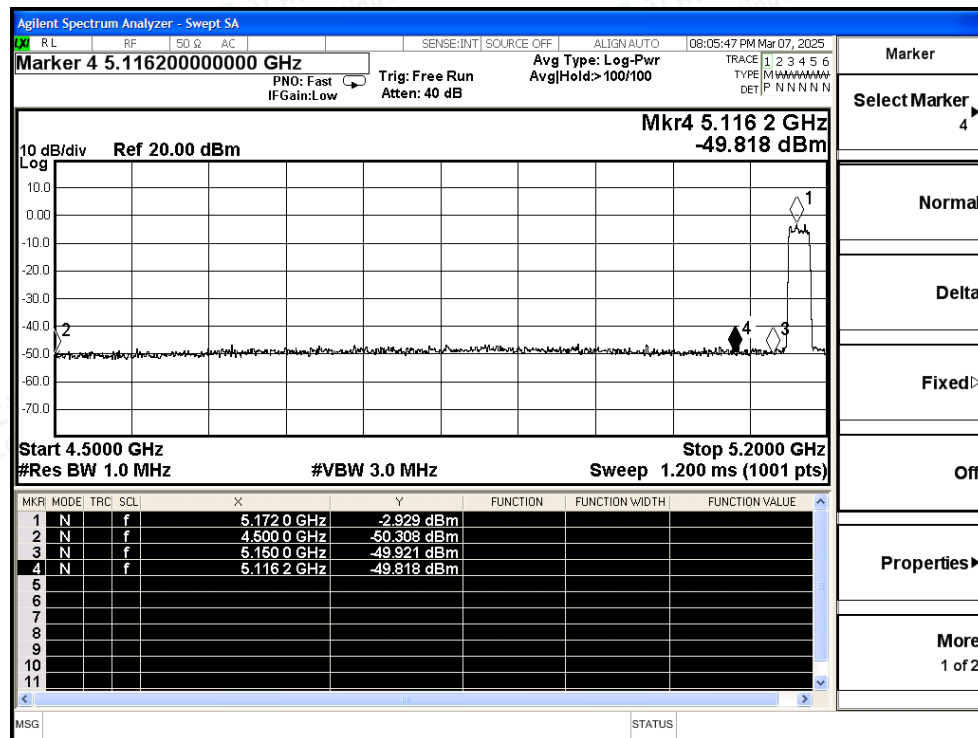
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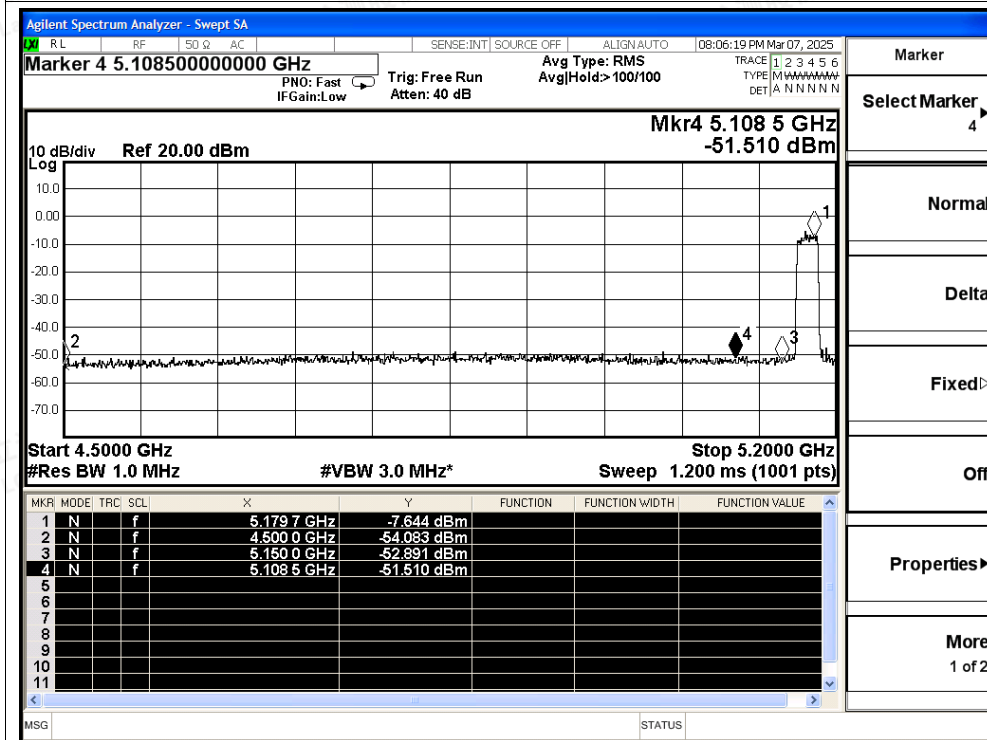


Test Graphs

Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant1 Peak



Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant1 Average



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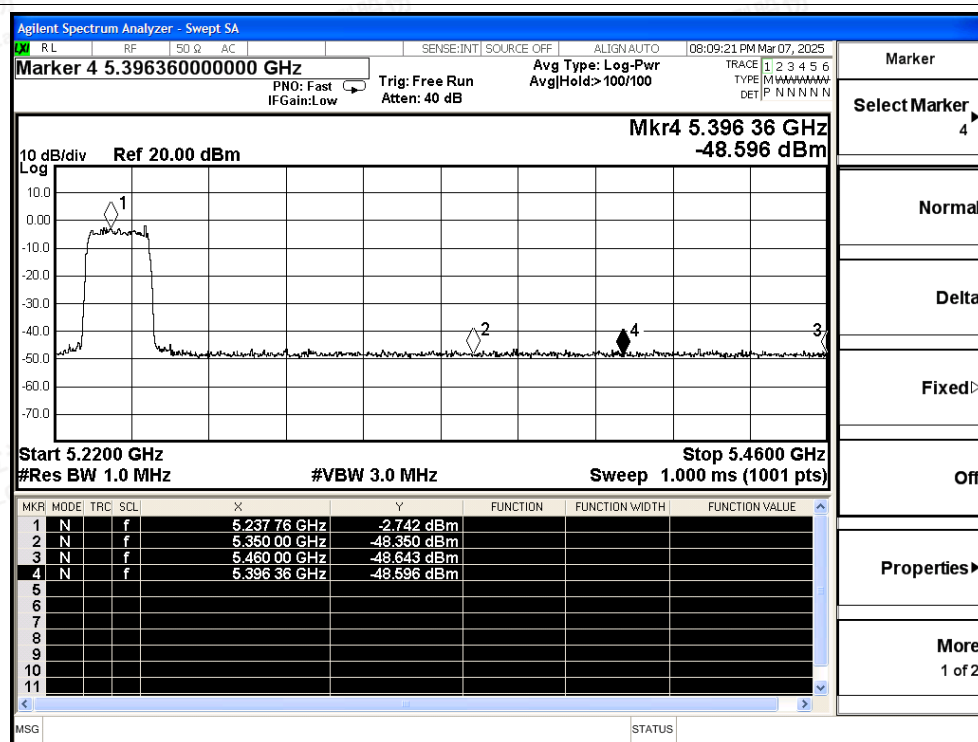
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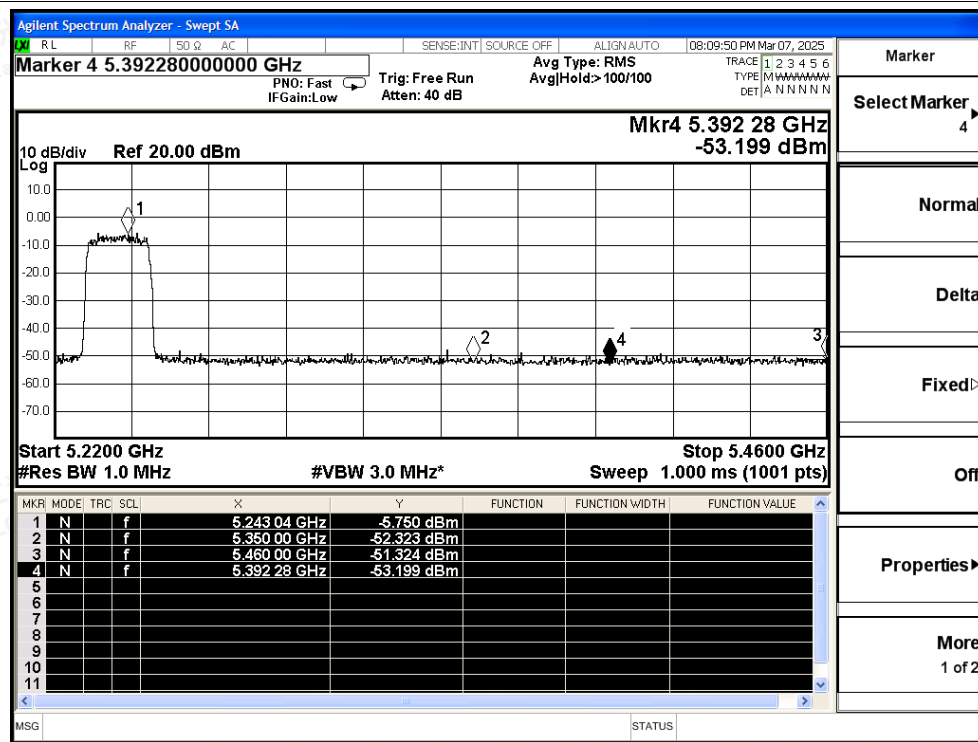
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Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant1 Peak



Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant1 Average



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Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	4500	-51.88	2.0	-	45.35	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	4500	-54.25	2.0	1.4	44.38	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5128.2	-49.18	2.0	-	48.05	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5121.9	-51.5	2.0	1.4	47.13	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5150	-49.42	2.0	-	47.81	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5150	-51.12	2.0	1.4	47.51	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5350	-49.36	2.0	-	47.87	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5350	-52.66	2.0	1.38	45.95	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5399.96	-49.51	2.0	-	47.72	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5401.88	-52.4	2.0	1.38	46.21	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5460	-49.45	2.0	-	47.78	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5460	-50.63	2.0	1.38	47.98	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	4500	-49.47	2.0	-	47.76	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	4500	-52.0	2.0	1.4	46.63	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5111.3	-49.14	2.0	-	48.09	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5117.6	-51.09	2.0	1.4	47.54	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5150	-49.69	2.0	-	47.54	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5150	-52.01	2.0	1.4	46.62	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5350	-49.35	2.0	-	47.88	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5350	-51.1	2.0	1.39	47.52	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5393.72	-49.4	2.0	-	47.83	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5396.36	-53.2	2.0	1.39	45.42	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5460	-49.63	2.0	-	47.6	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5460	-50.79	2.0	1.39	47.83	Average	54	Pass



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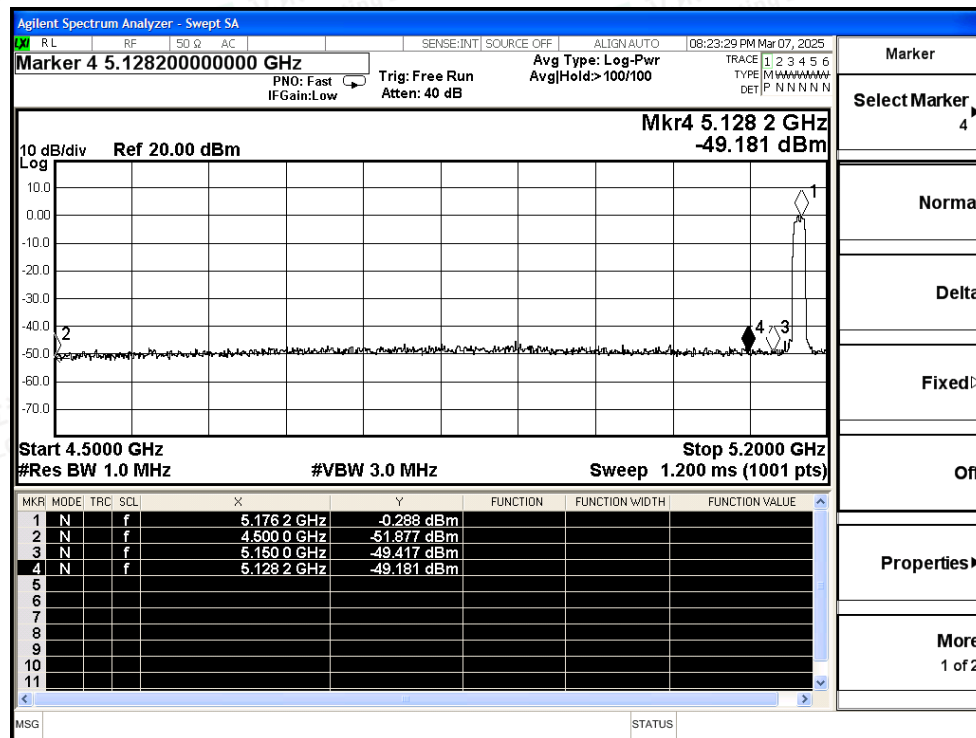
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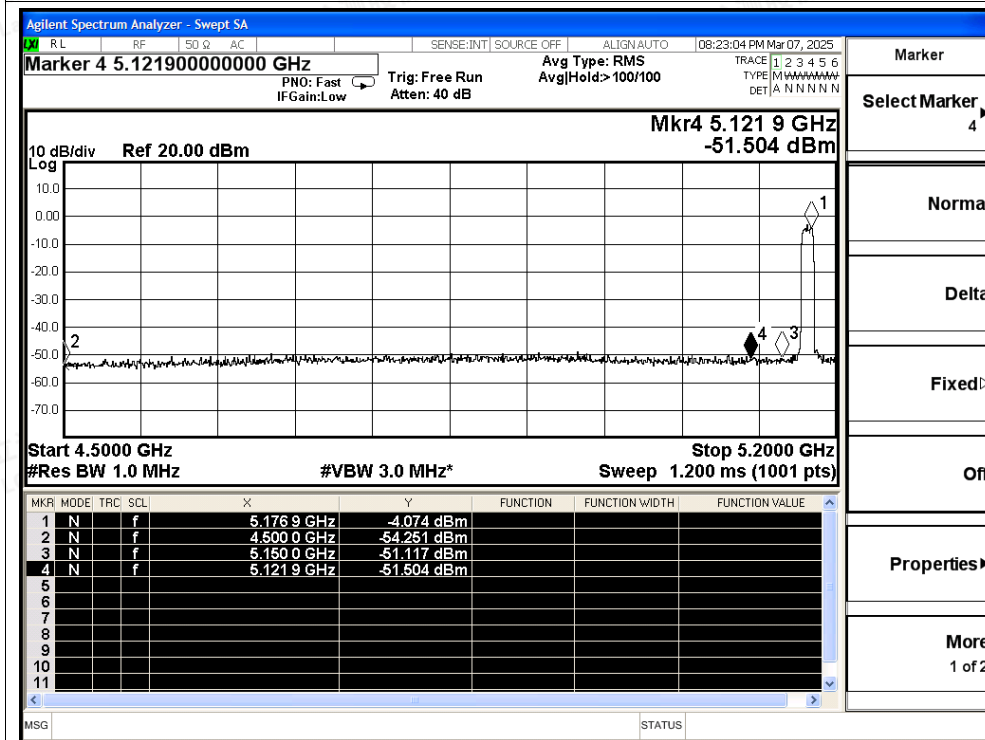


Test Graphs

Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant2 Peak



Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant2 Average



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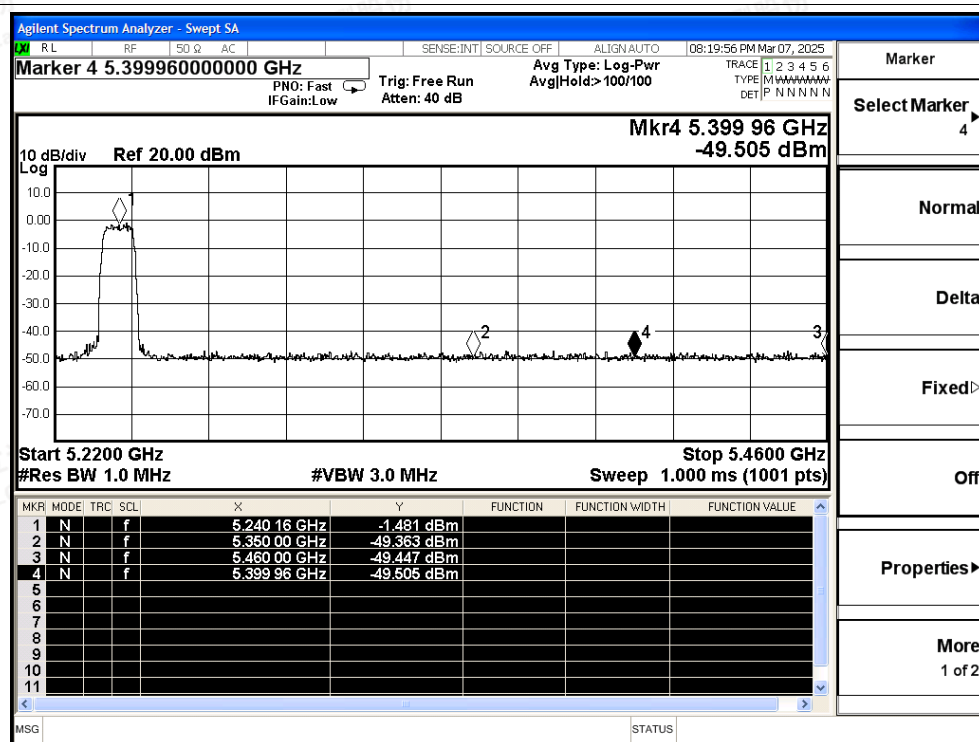
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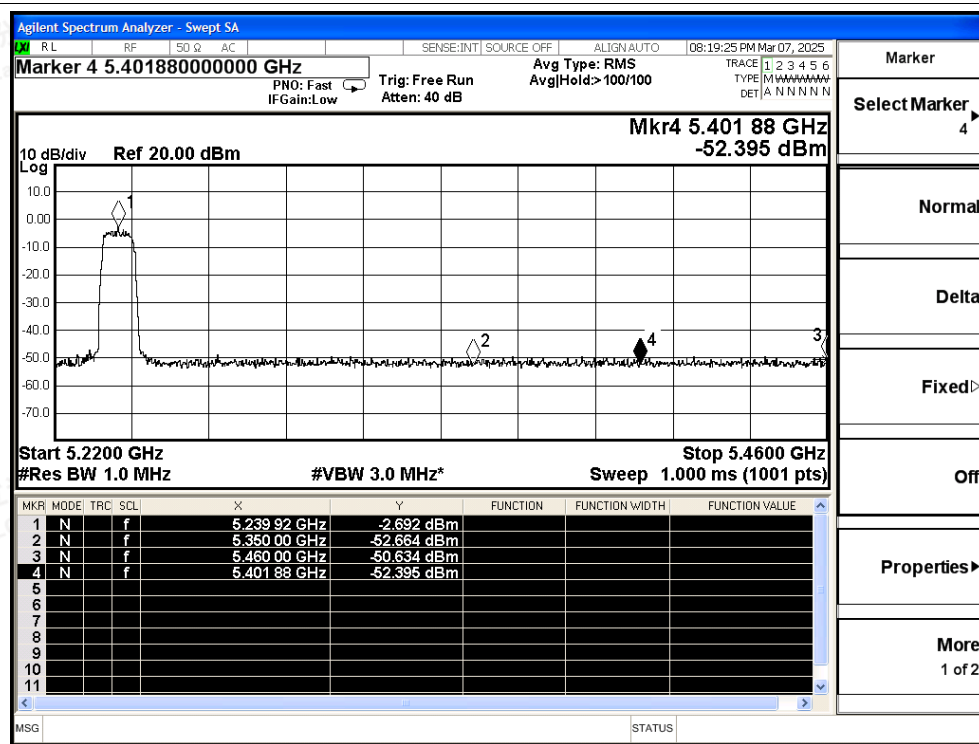
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Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant2 Peak



Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant2 Average



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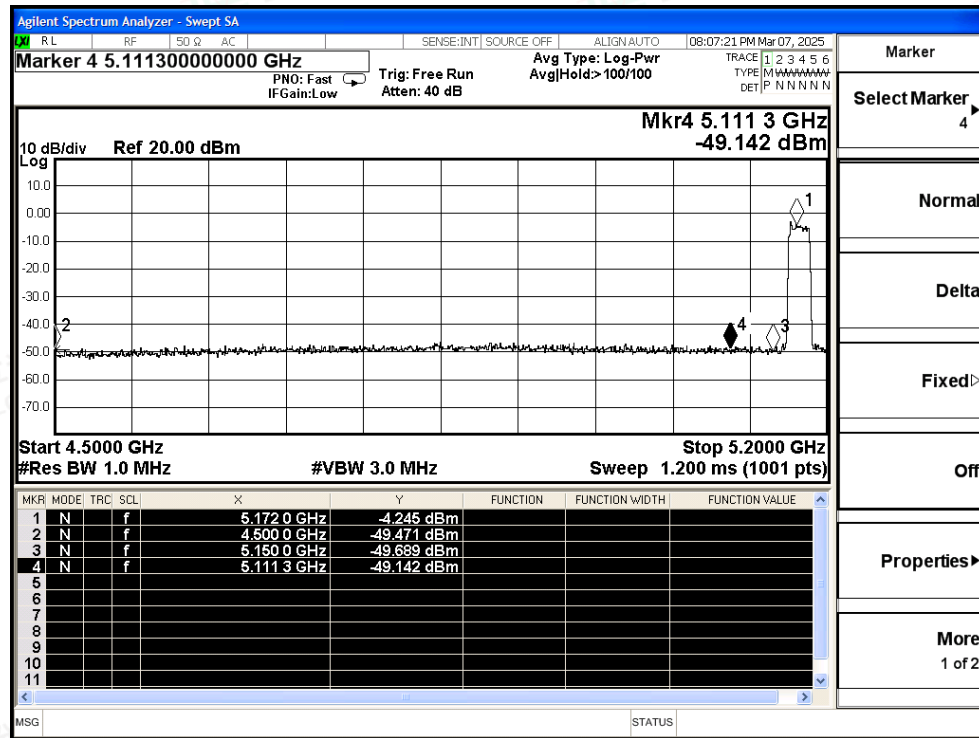
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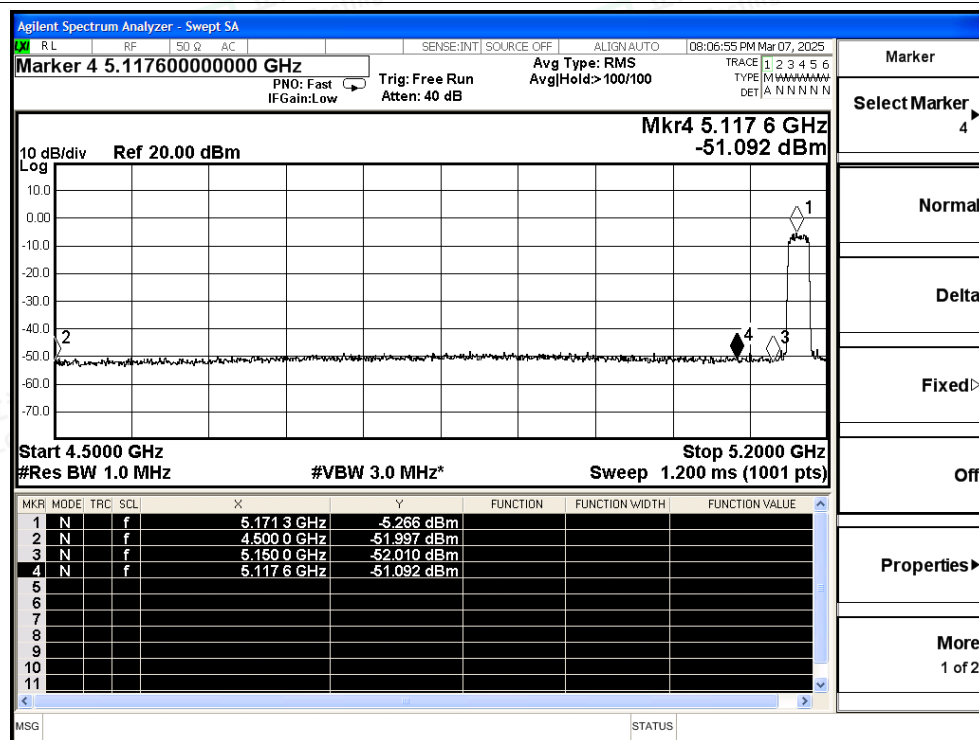


Test Graphs

Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant2 Peak



Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant2 Average



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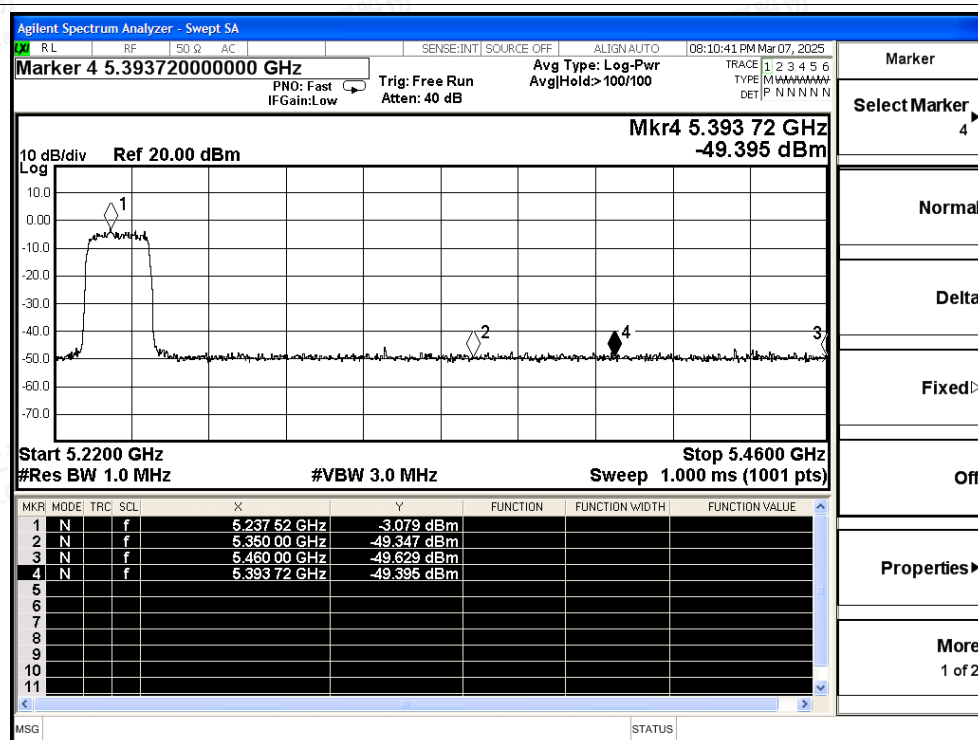
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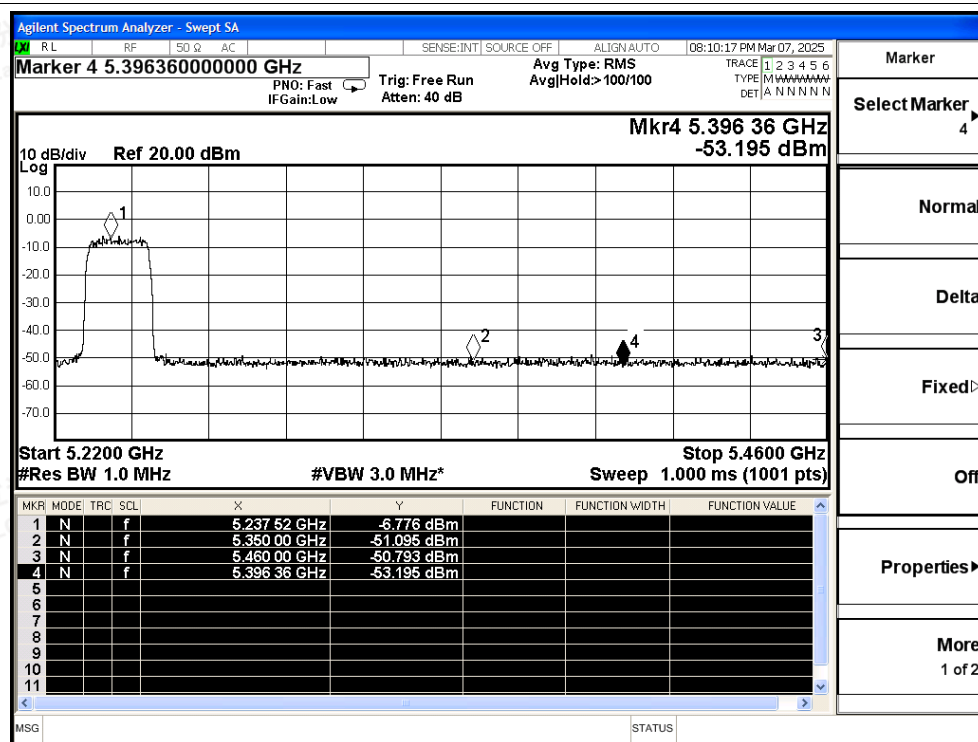
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Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant2 Peak



Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant2 Average



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B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	5174.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5207	Ant1	5207.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5240.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5174.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5207	Ant1	5207.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5240.00	0	0	25	Pass

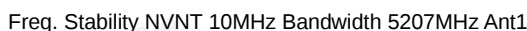


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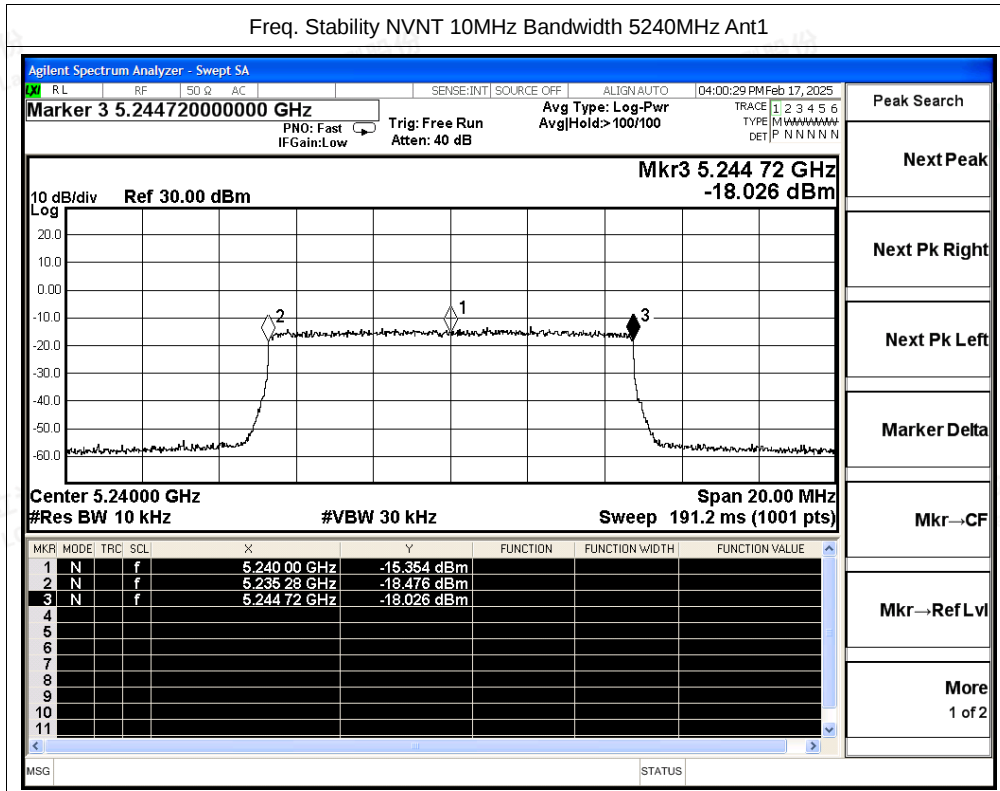
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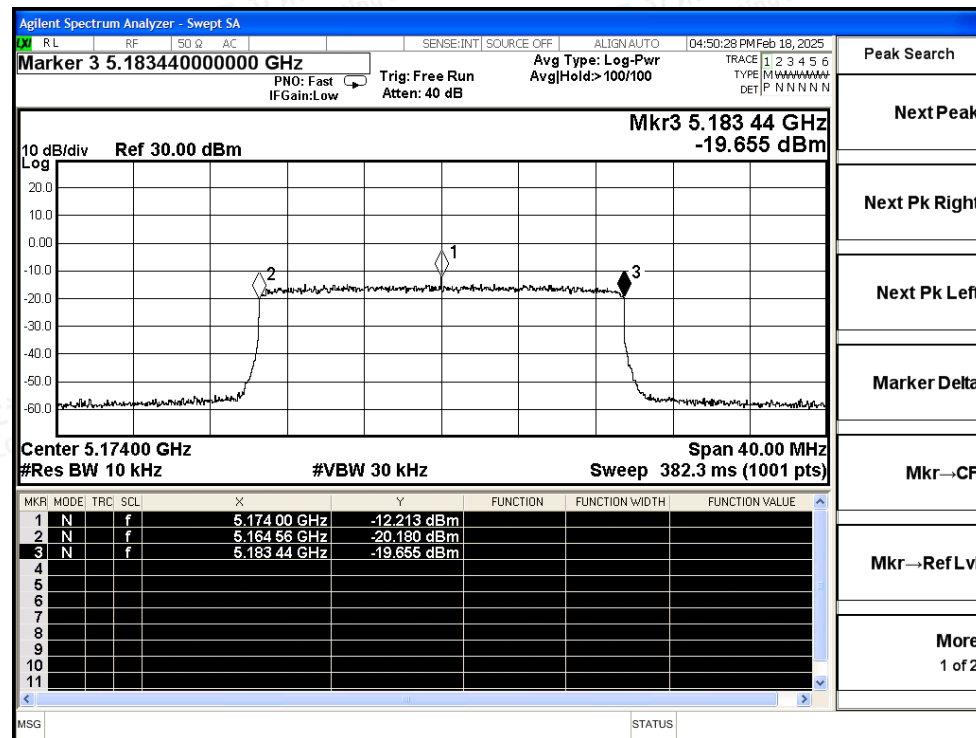
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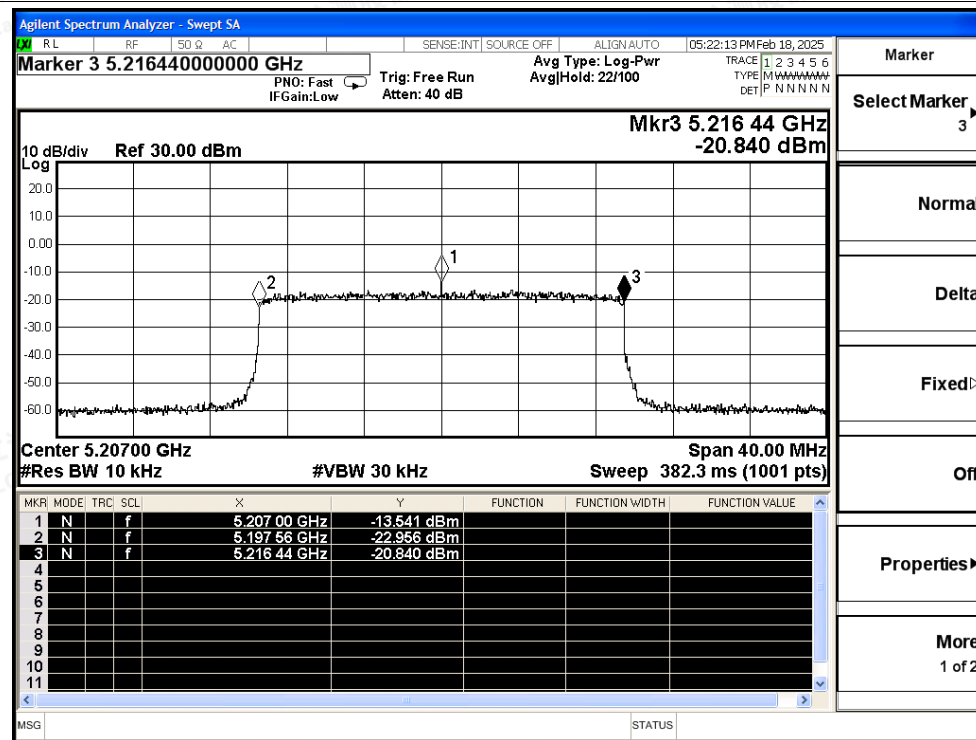


Test Graphs

Freq. Stability NVNT 20MHz Bandwidth 5174MHz Ant1



Freq. Stability NVNT 20MHz Bandwidth 5207MHz Ant1

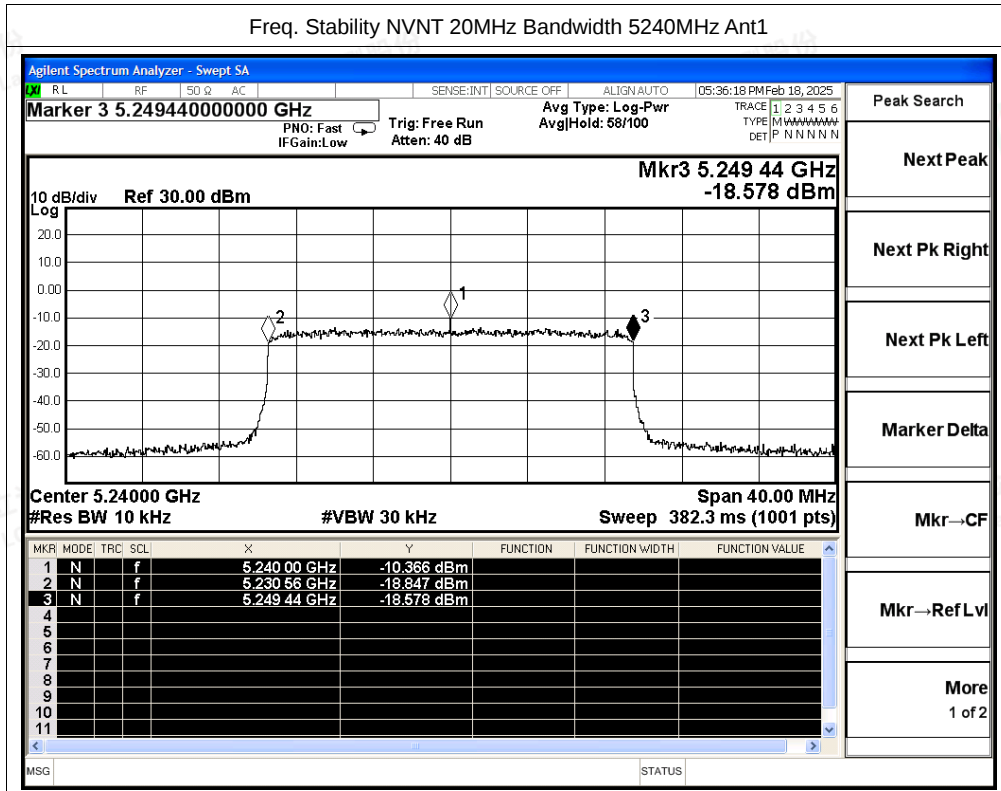


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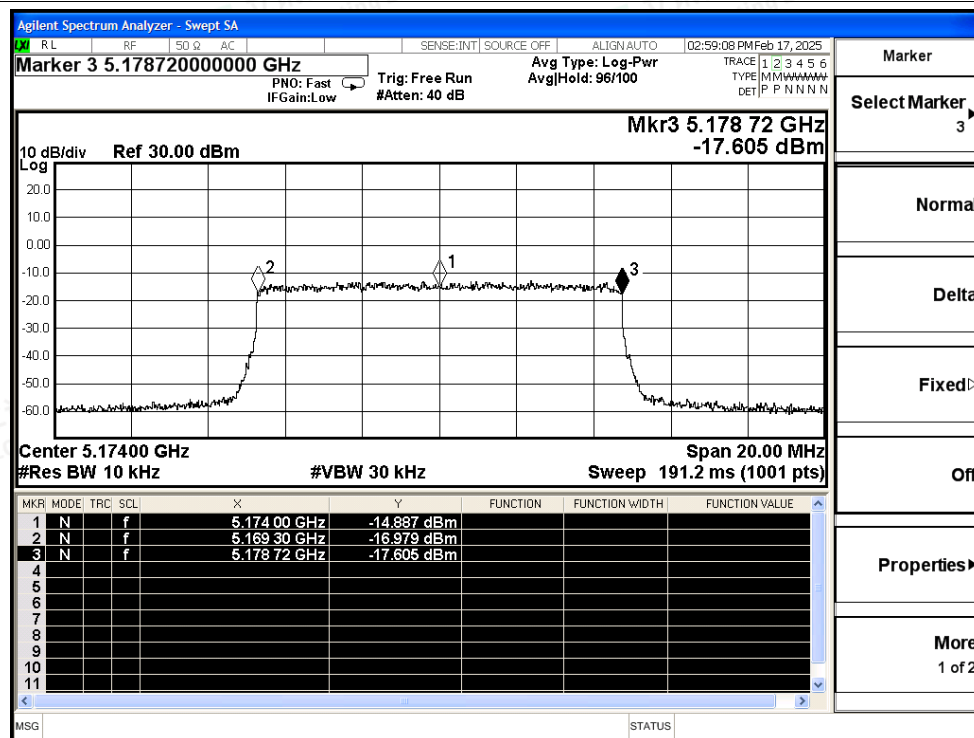


Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	5174.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5207	Ant2	5207.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5240.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5174.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5207	Ant2	5207.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5240.00	0	0	25	Pass

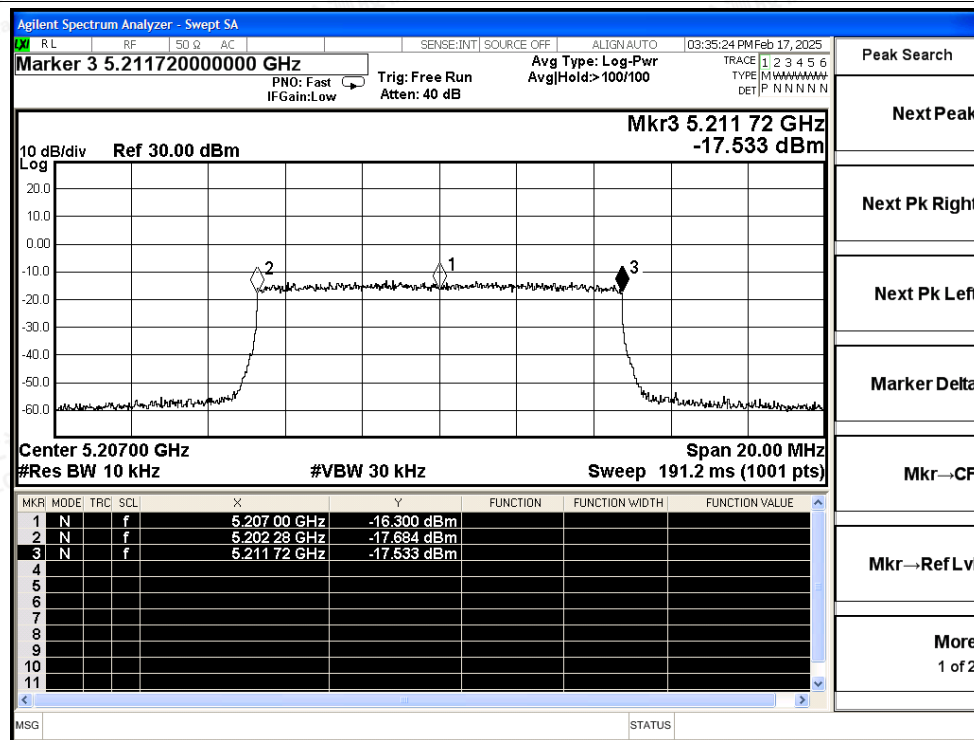


Test Graphs

Freq. Stability NVNT 10MHz Bandwidth 5174MHz Ant2



Freq. Stability NVNT 10MHz Bandwidth 5207MHz Ant2

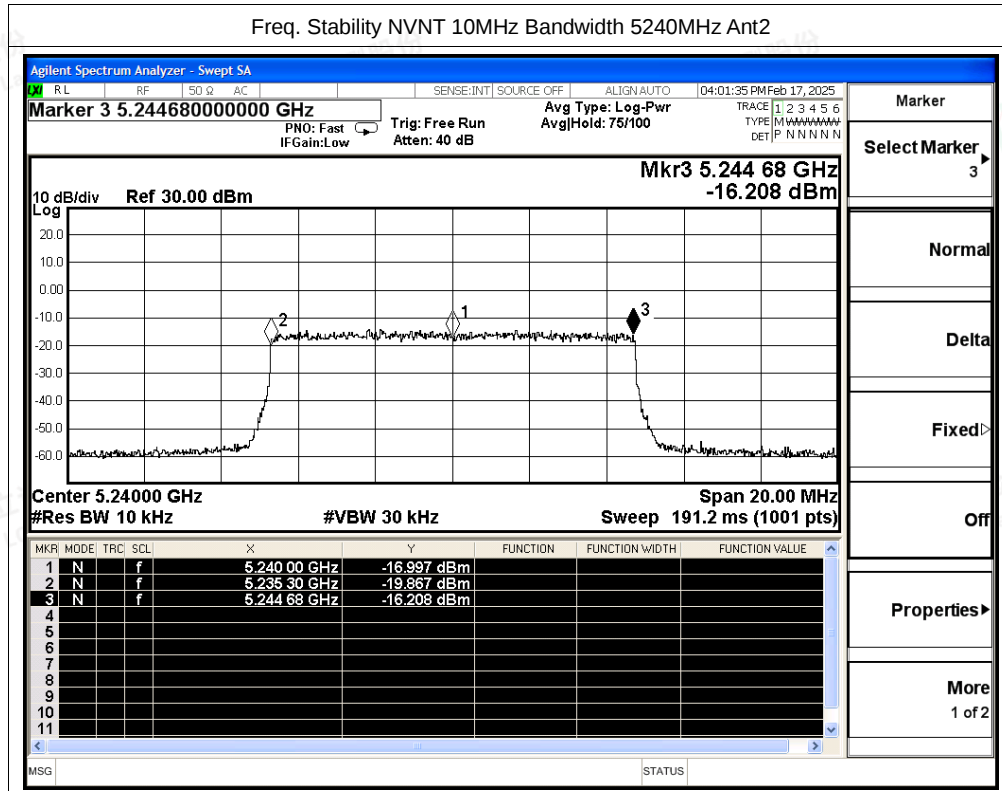


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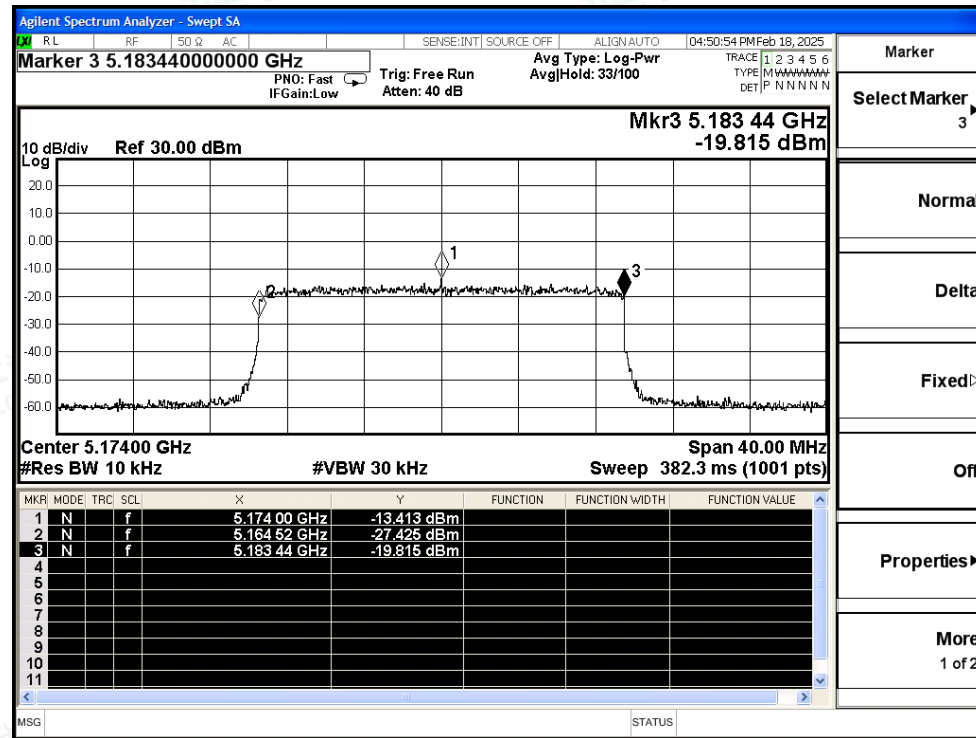
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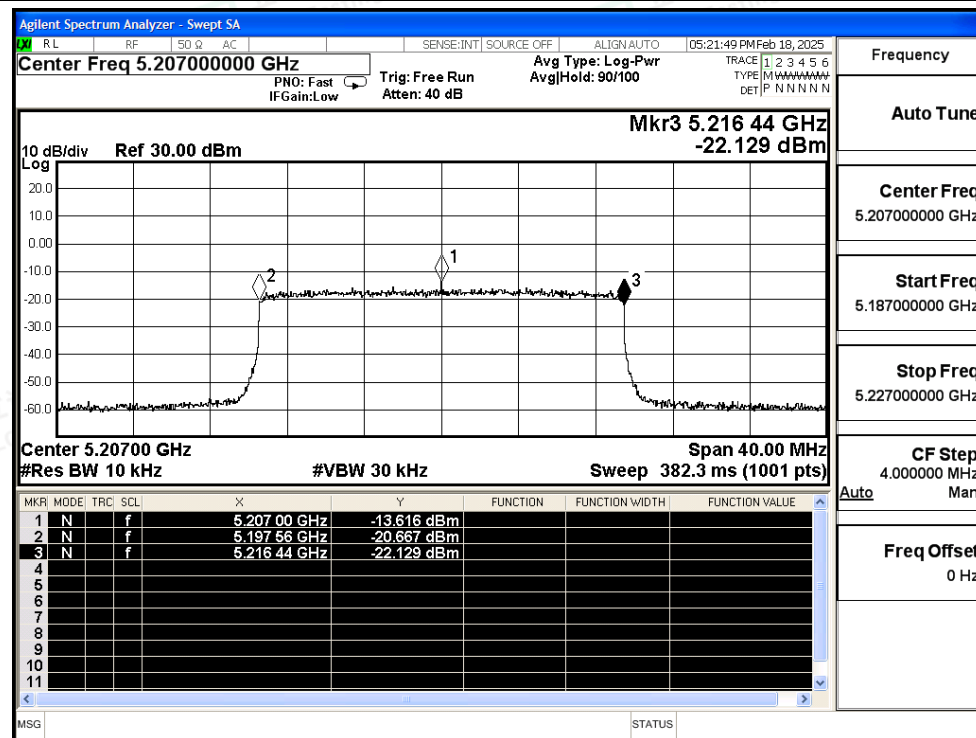


Test Graphs

Freq. Stability NVNT 20MHz Bandwidth 5174MHz Ant2



Freq. Stability NVNT 20MHz Bandwidth 5207MHz Ant2

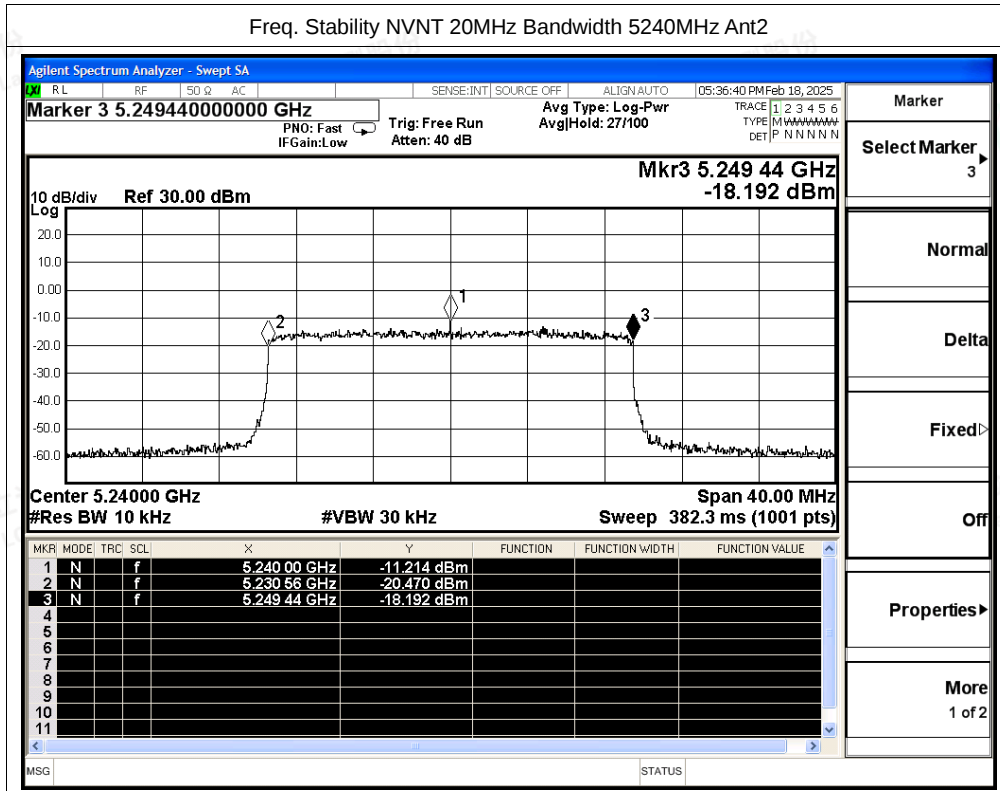


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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	10MHz Bandwidth	5174	Ant1	73.02	1.37	0.62
NVNT	10MHz Bandwidth	5207	Ant1	73.0	1.37	0.62
NVNT	10MHz Bandwidth	5240	Ant1	73.0	1.37	0.62
NVNT	20MHz Bandwidth	5174	Ant1	72.52	1.4	0.62
NVNT	20MHz Bandwidth	5207	Ant1	73.28	1.35	0.61
NVNT	20MHz Bandwidth	5240	Ant1	73.17	1.36	0.62



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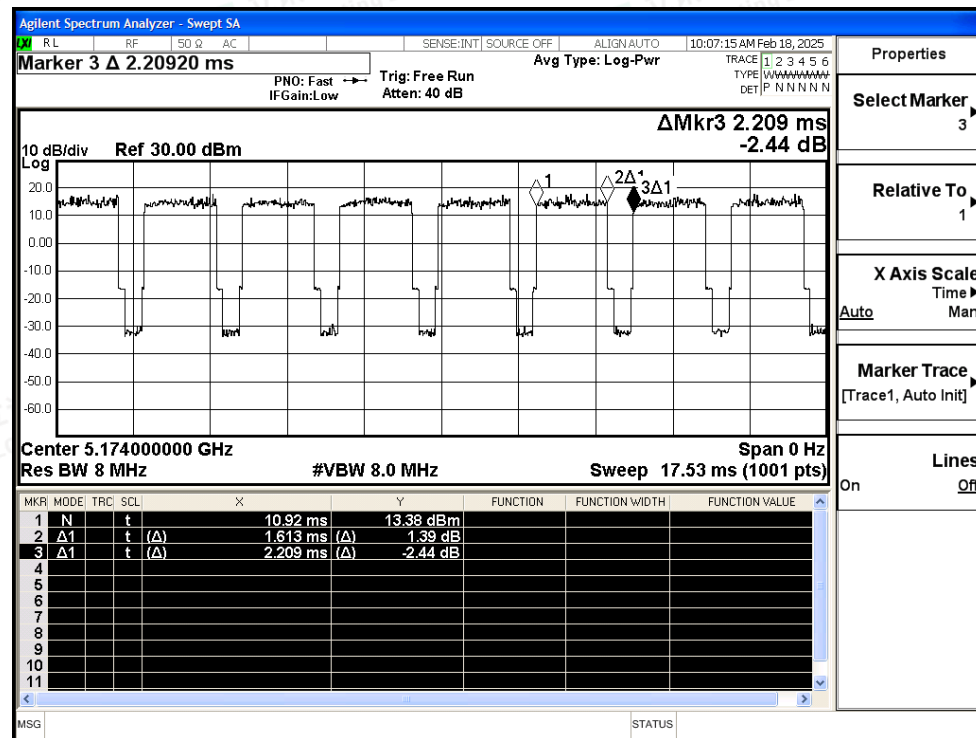
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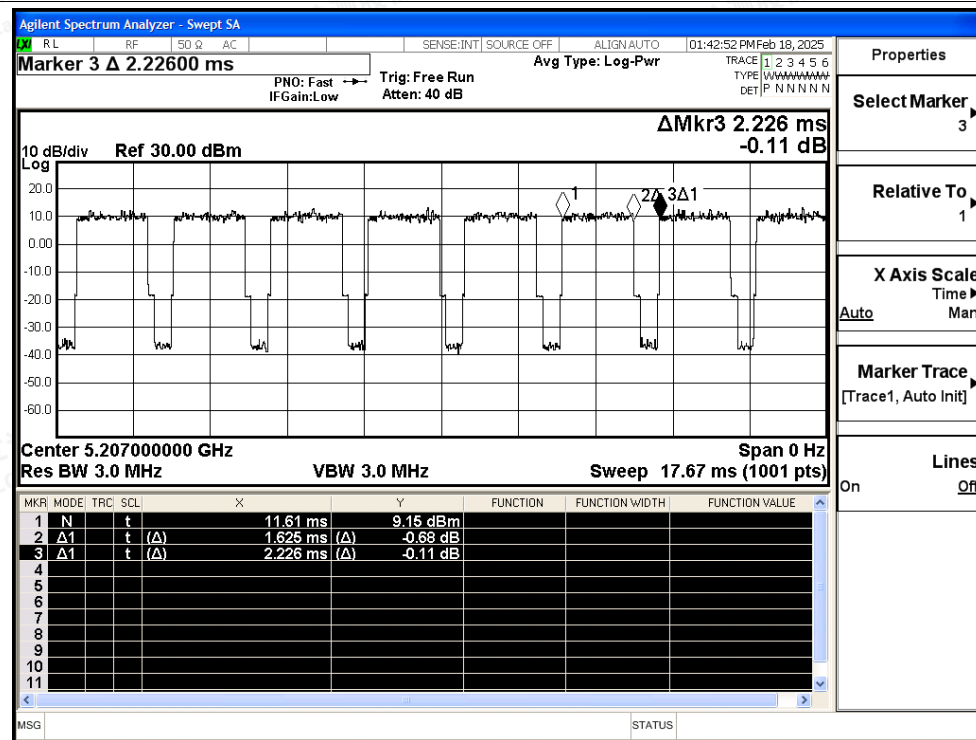


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5174MHz Ant1



Duty Cycle NVNT 10MHz Bandwidth 5207MHz Ant1

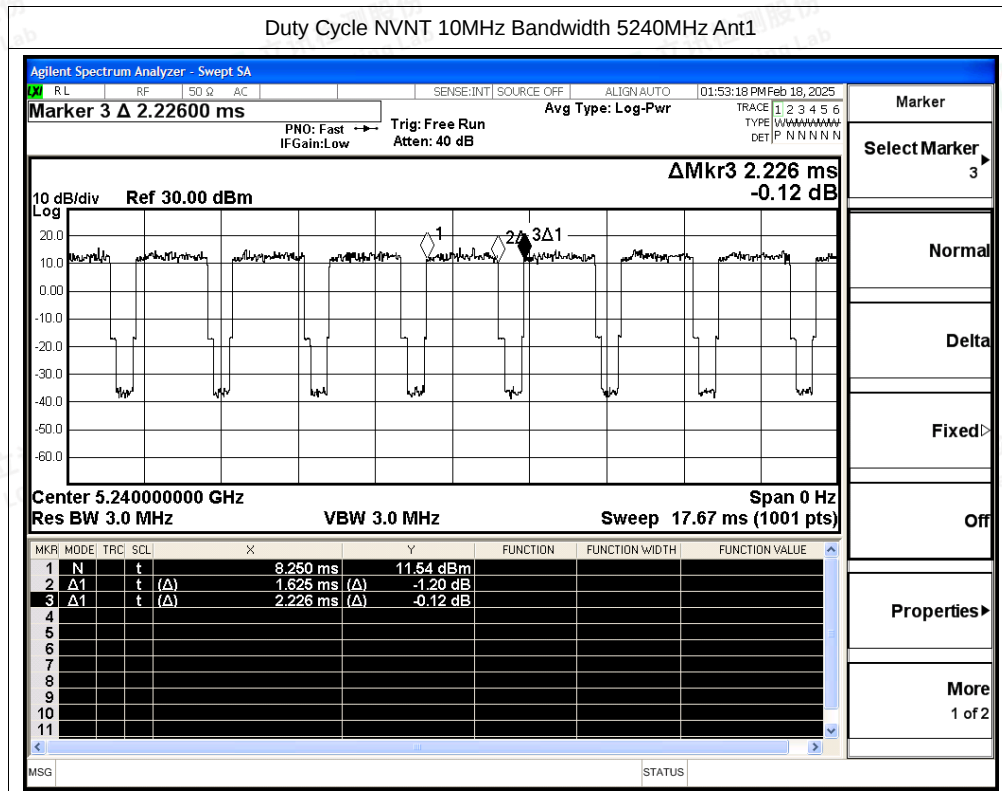


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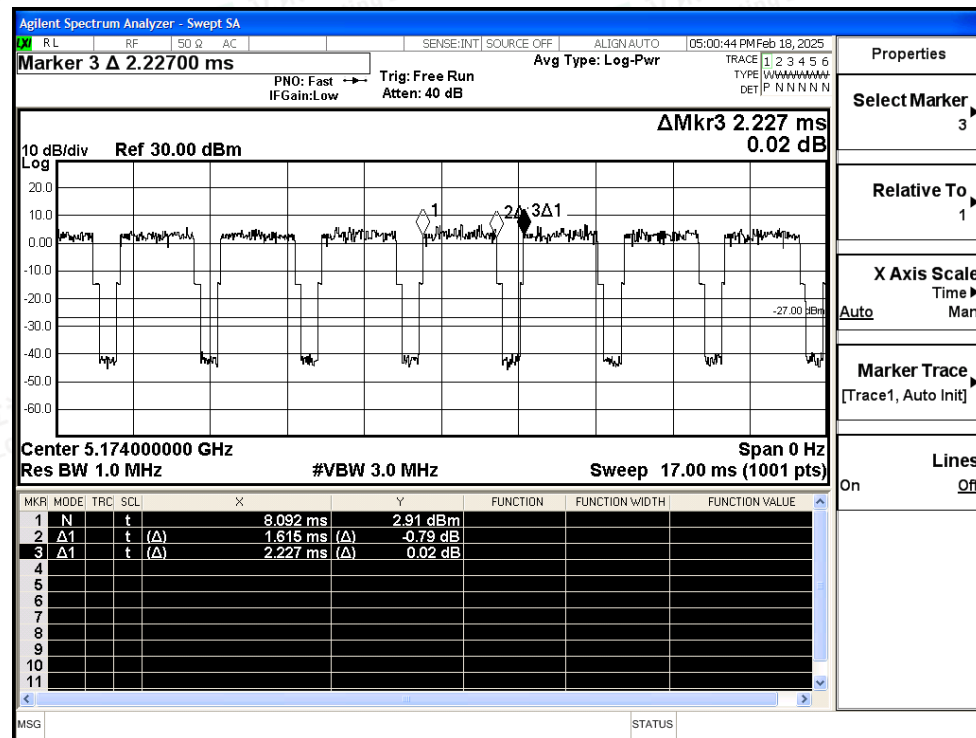
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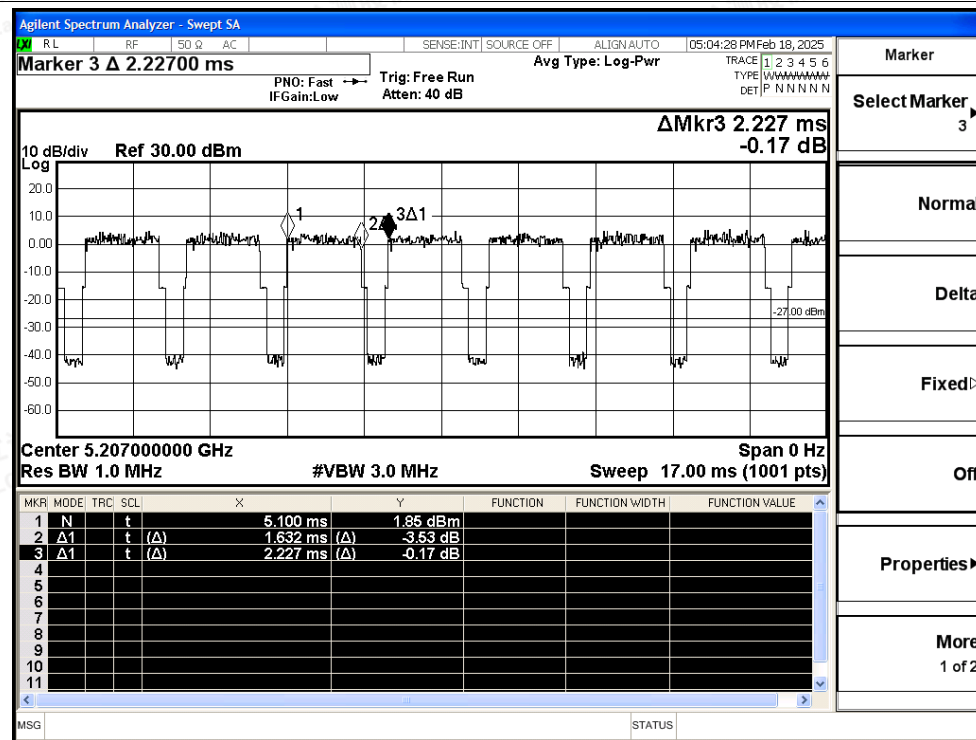


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5174MHz Ant1



Duty Cycle NVNT 20MHz Bandwidth 5207MHz Ant1

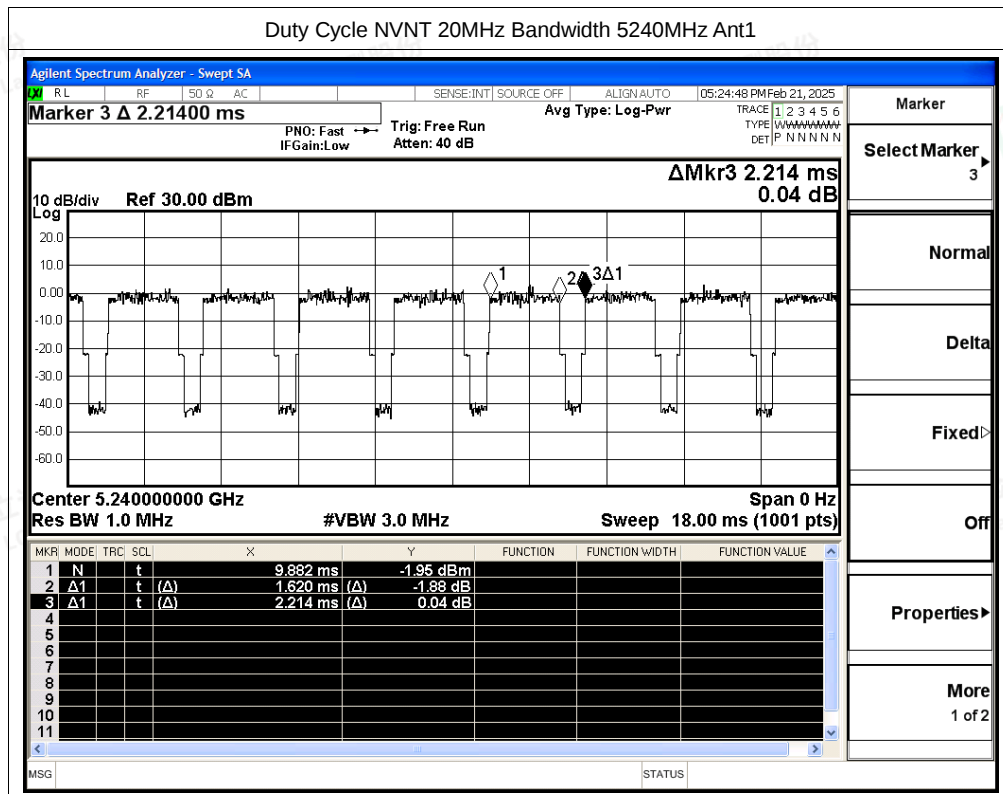


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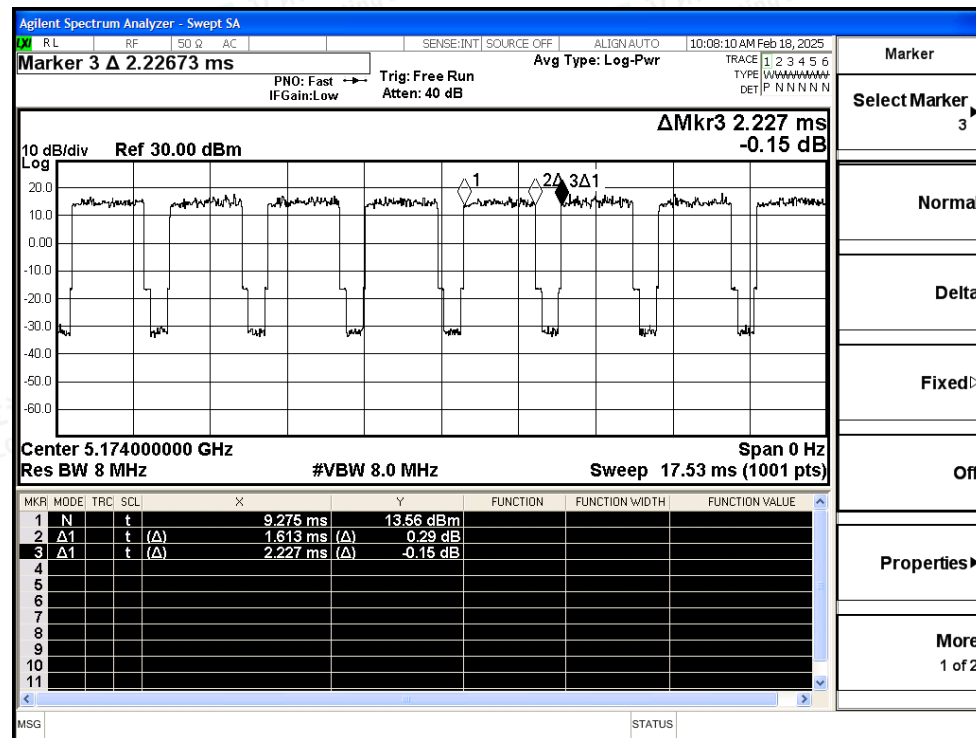
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	10MHz Bandwidth	5174	Ant2	72.43	1.4	0.62
NVNT	10MHz Bandwidth	5207	Ant2	73.0	1.37	0.62
NVNT	10MHz Bandwidth	5240	Ant2	72.83	1.38	0.62
NVNT	20MHz Bandwidth	5174	Ant2	72.52	1.4	0.62
NVNT	20MHz Bandwidth	5207	Ant2	73.28	1.35	0.61
NVNT	20MHz Bandwidth	5240	Ant2	72.58	1.39	0.62



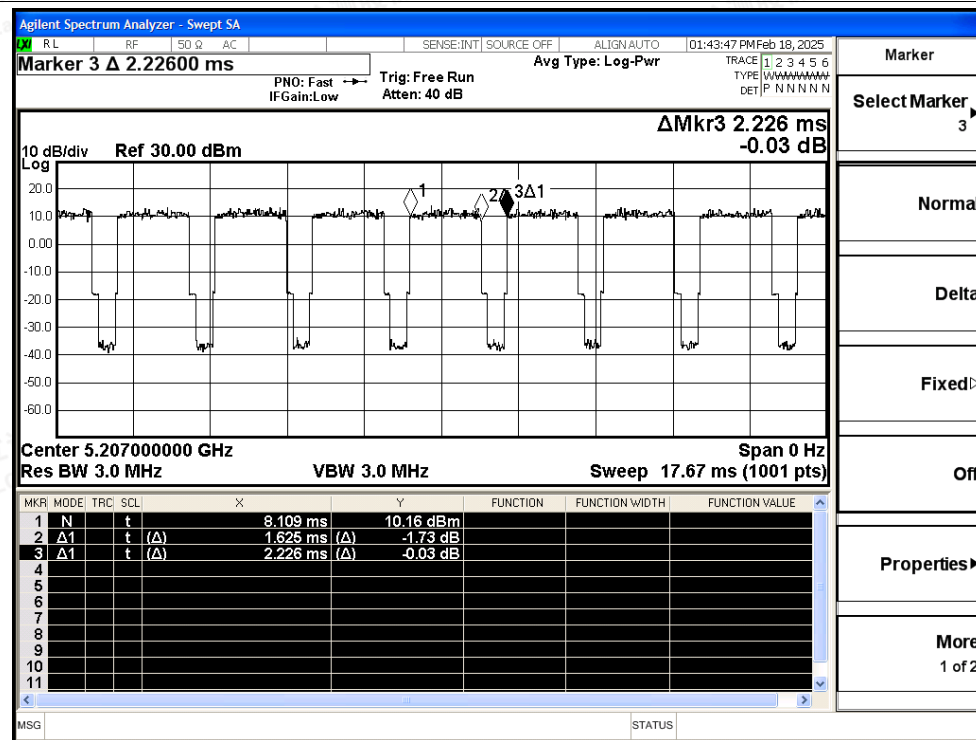


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5174MHz Ant2



Duty Cycle NVNT 10MHz Bandwidth 5207MHz Ant2

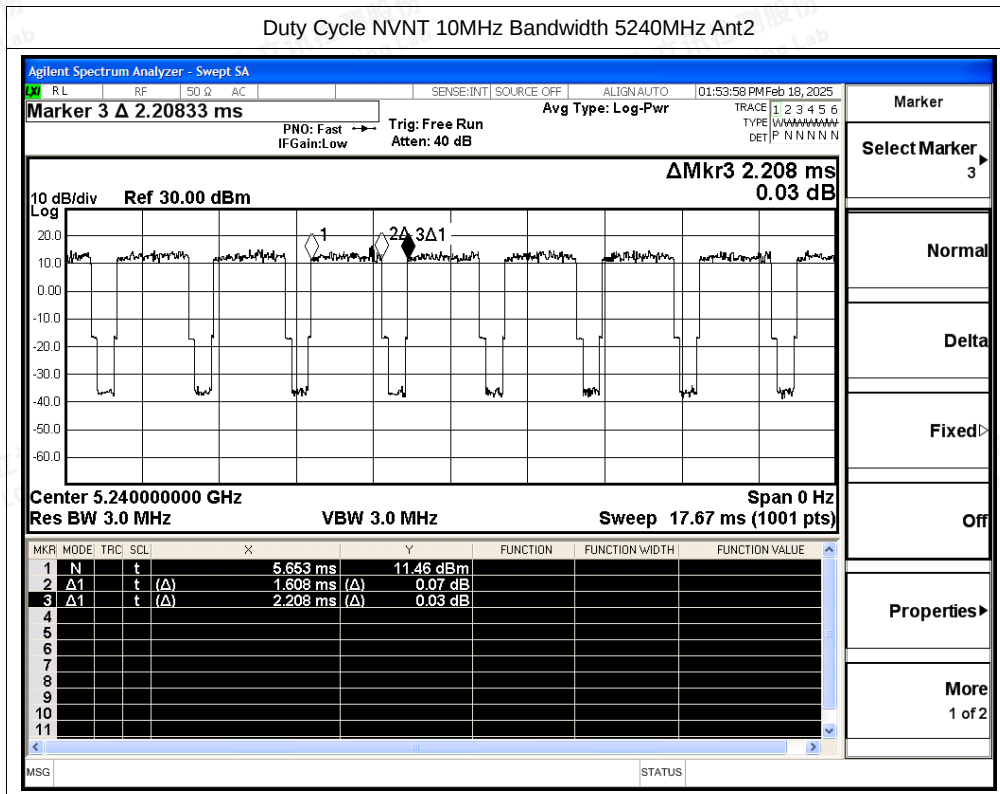


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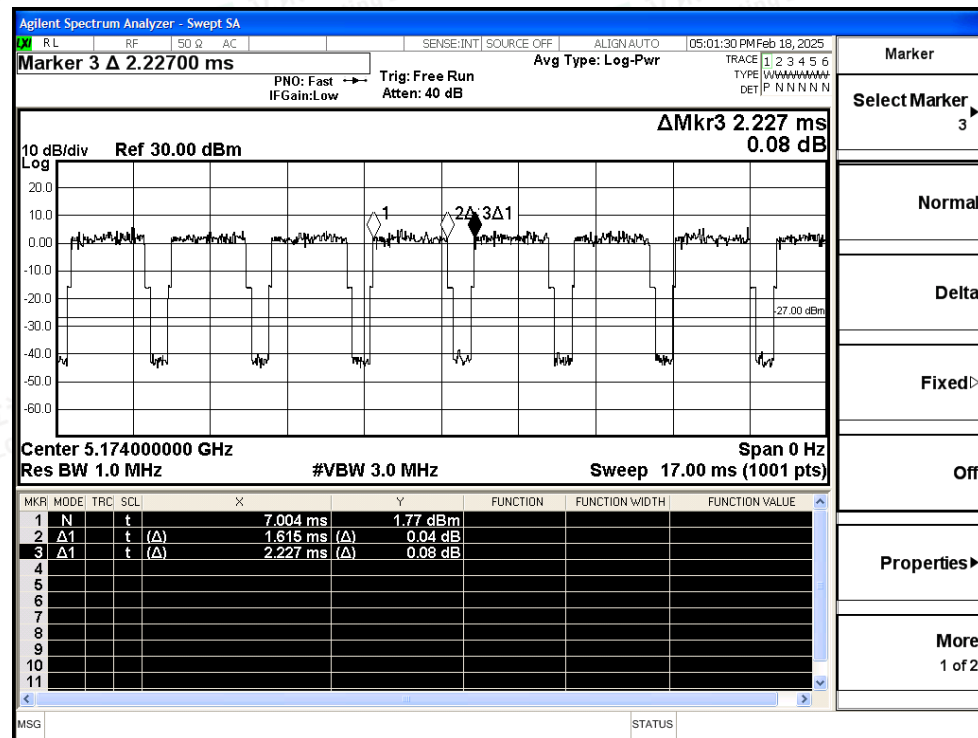
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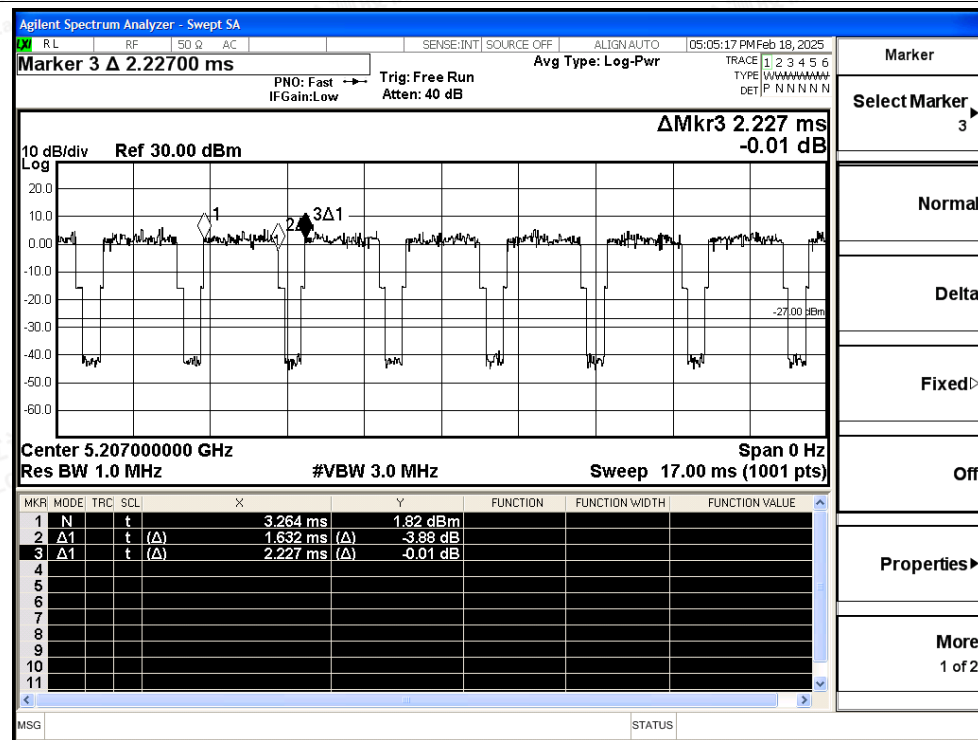


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5174MHz Ant2



Duty Cycle NVNT 20MHz Bandwidth 5207MHz Ant2

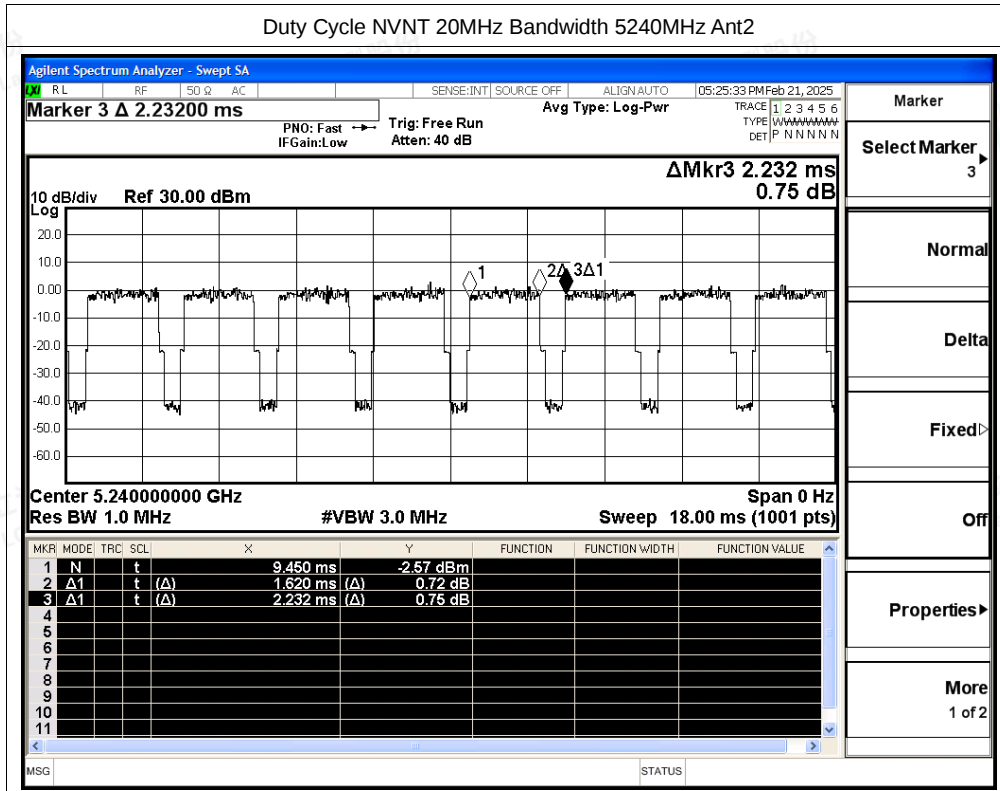


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