



Appendix B

RF Test Data for 5.2G SRD (Conducted Measurement)

Product Name: Light Quadcopter UAV

Test Model: S220

Environmental Conditions

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





B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	10.08	---	Pass
NVNT	10MHz Bandwidth	5207	Ant1	10.18	---	Pass
NVNT	10MHz Bandwidth	5240	Ant1	10.29	---	Pass
NVNT	20MHz Bandwidth	5174	Ant1	19.94	---	Pass
NVNT	20MHz Bandwidth	5207	Ant1	19.91	---	Pass
NVNT	20MHz Bandwidth	5240	Ant1	19.91	---	Pass



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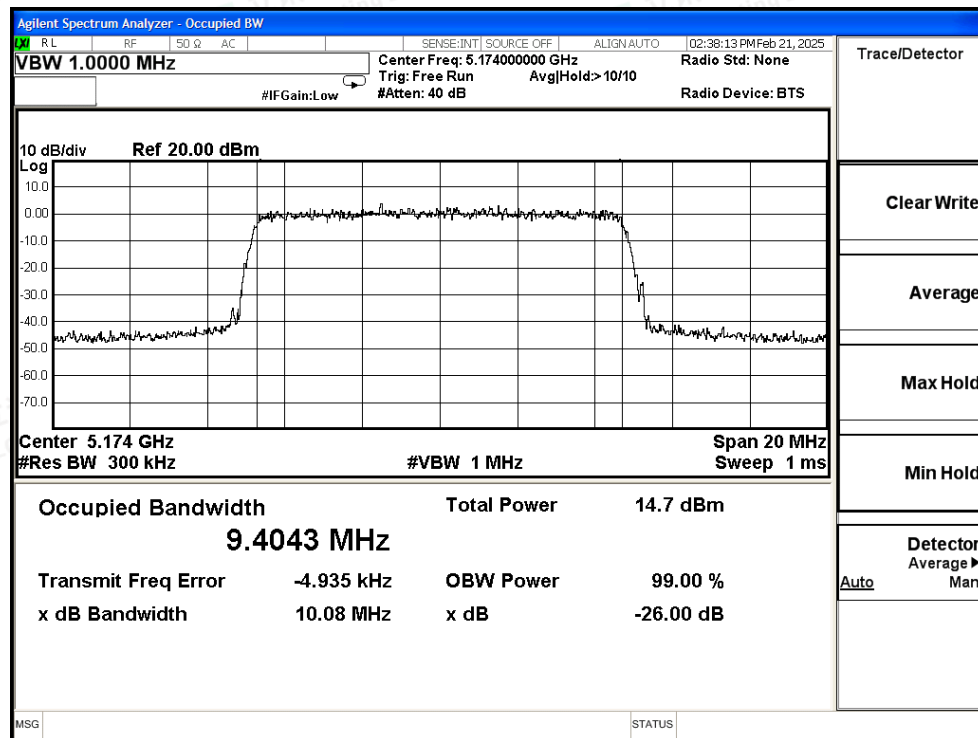
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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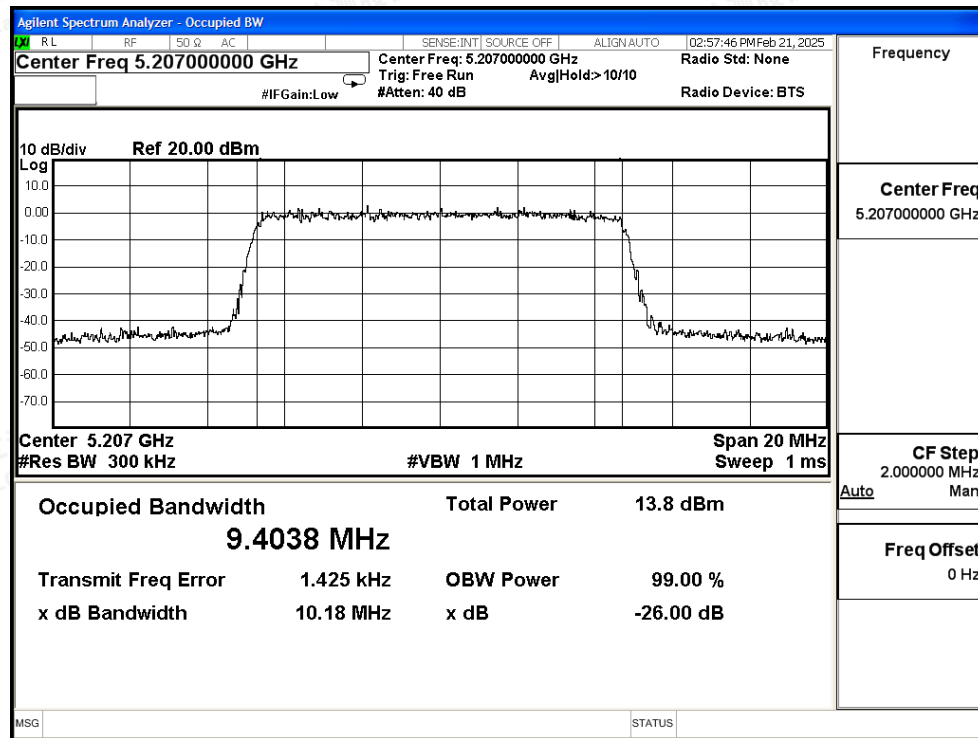


Test Graphs

-26dB Bandwidth NVNT 10MHz Bandwidth 5174MHz Ant1



-26dB Bandwidth NVNT 10MHz Bandwidth 5207MHz Ant1

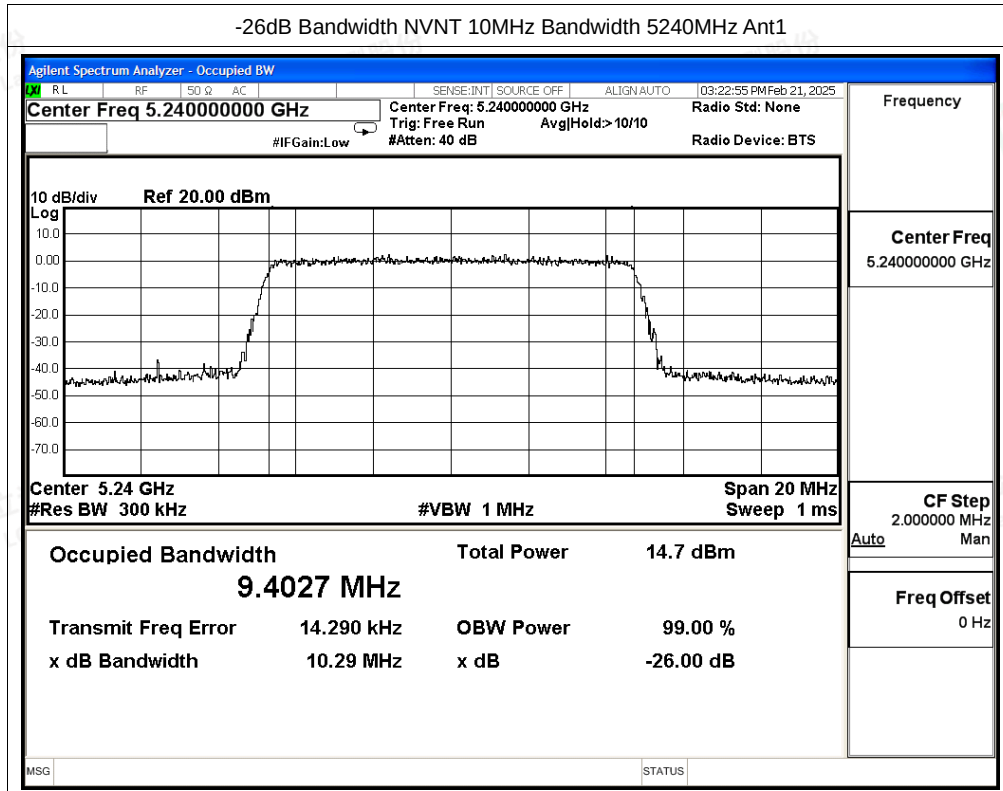


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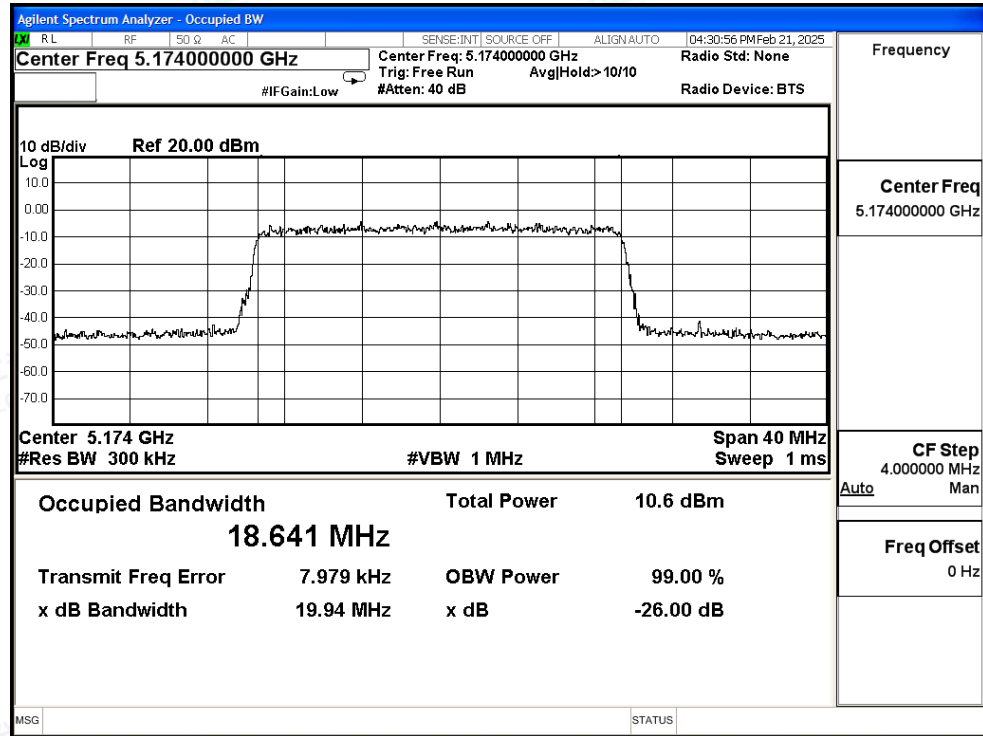
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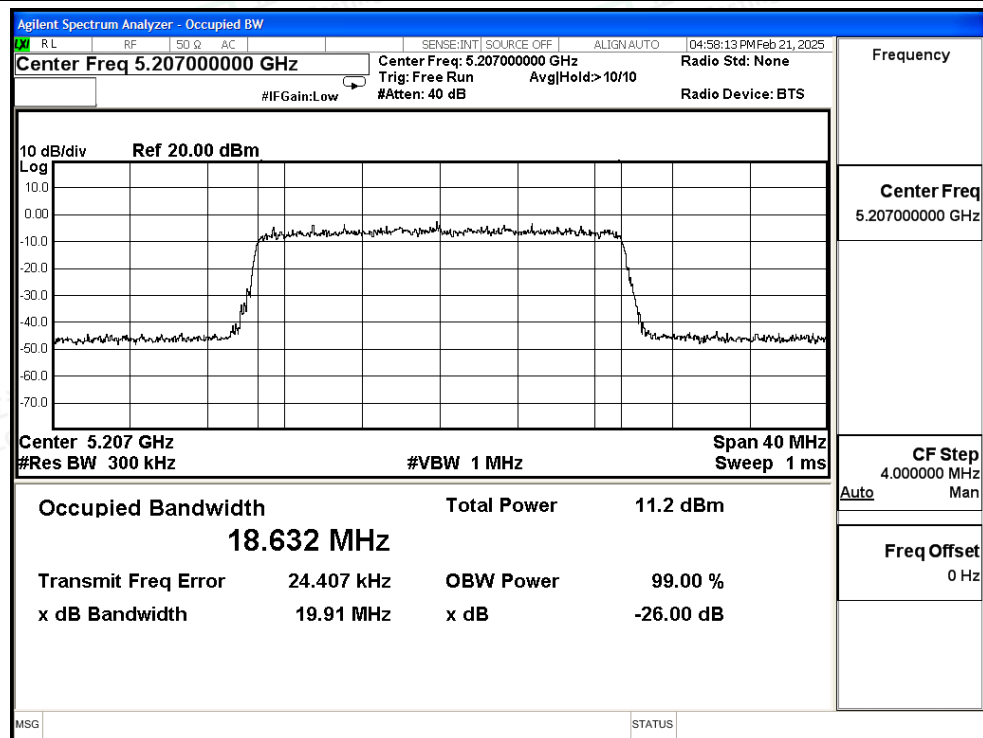


Test Graphs

-26dB Bandwidth NVNT 20MHz Bandwidth 5174MHz Ant1



-26dB Bandwidth NVNT 20MHz Bandwidth 5207MHz Ant1

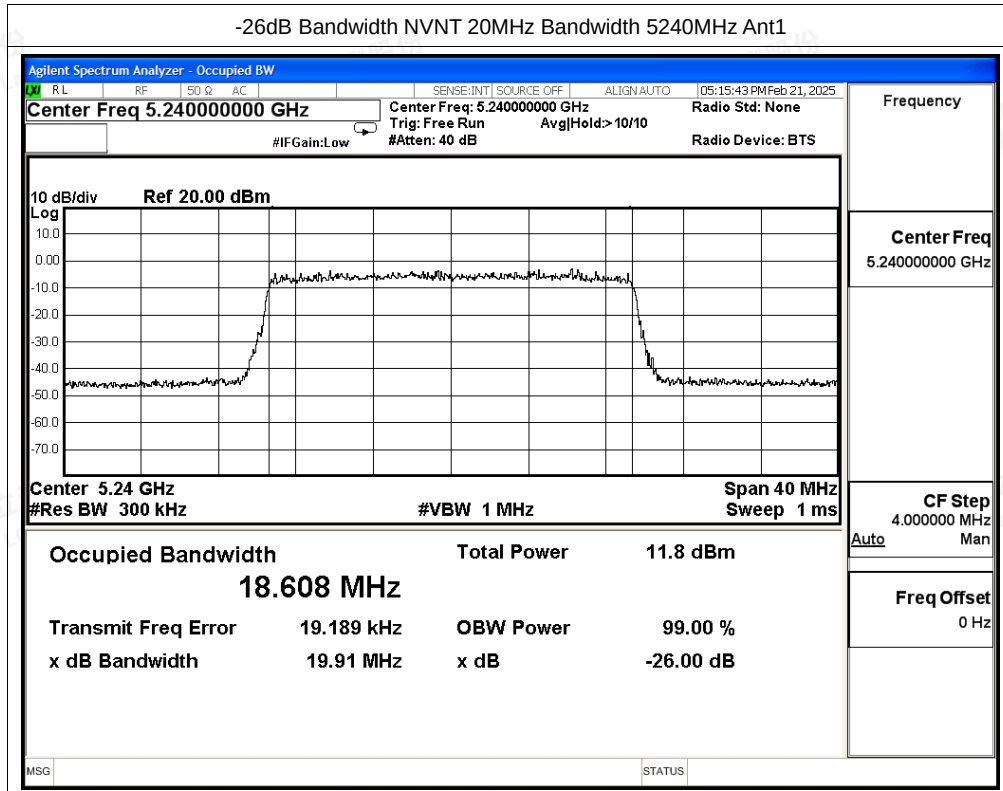


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Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	10.27	---	Pass
NVNT	10MHz Bandwidth	5207	Ant2	10.04	---	Pass
NVNT	10MHz Bandwidth	5240	Ant2	10.18	---	Pass
NVNT	20MHz Bandwidth	5174	Ant2	19.87	---	Pass
NVNT	20MHz Bandwidth	5207	Ant2	19.91	---	Pass
NVNT	20MHz Bandwidth	5240	Ant2	19.71	---	Pass



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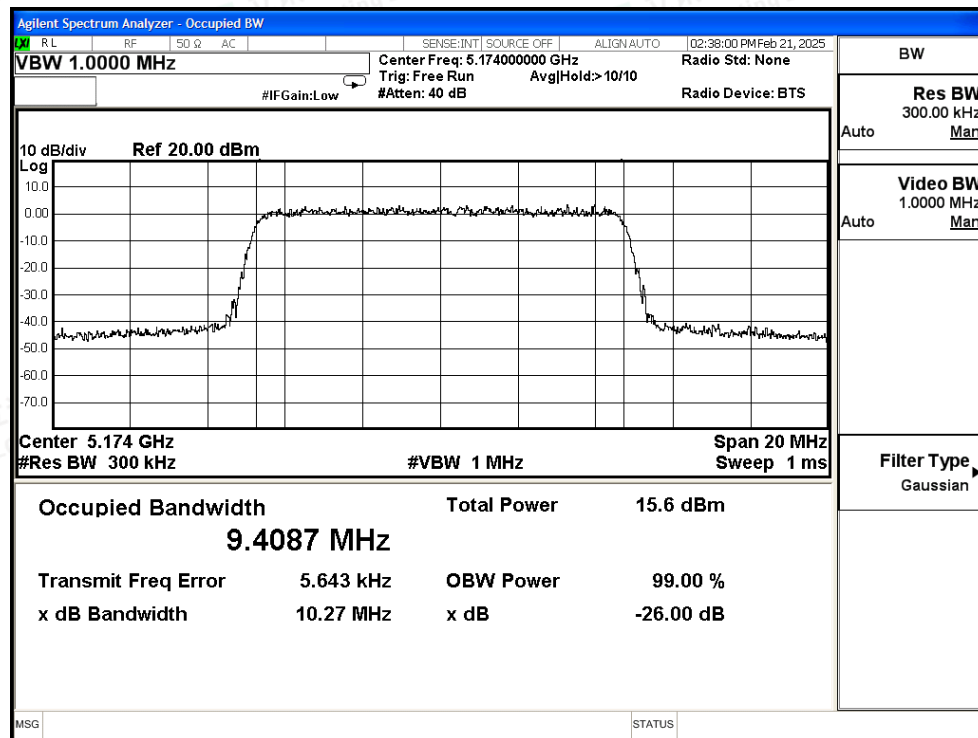
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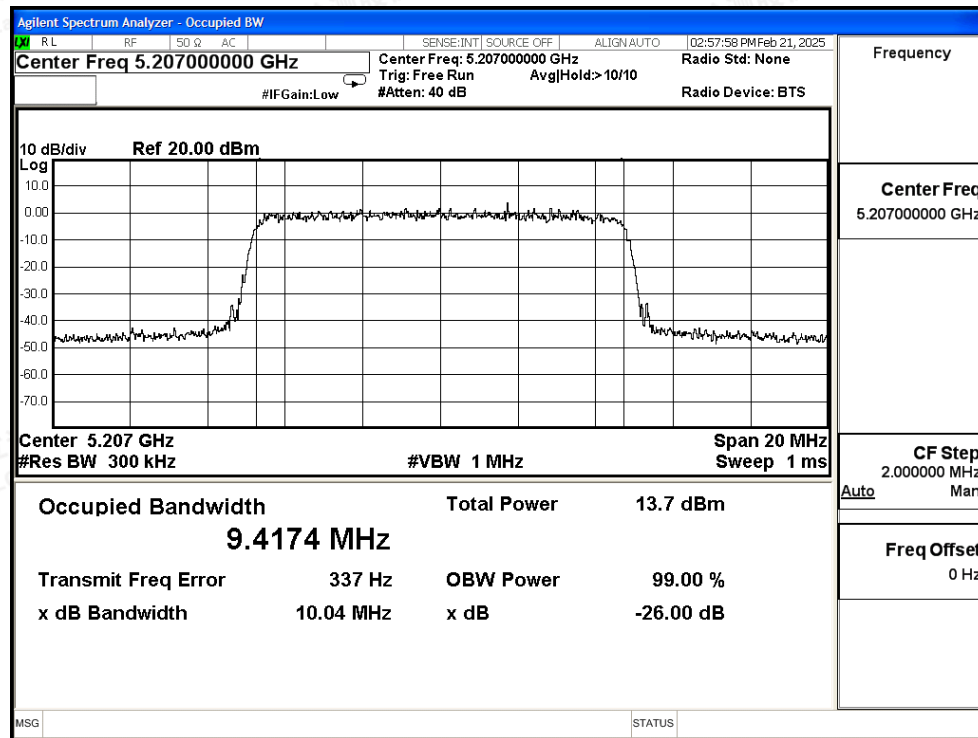


Test Graphs

-26dB Bandwidth NVNT 10MHz Bandwidth 5174MHz Ant2



-26dB Bandwidth NVNT 10MHz Bandwidth 5207MHz Ant2

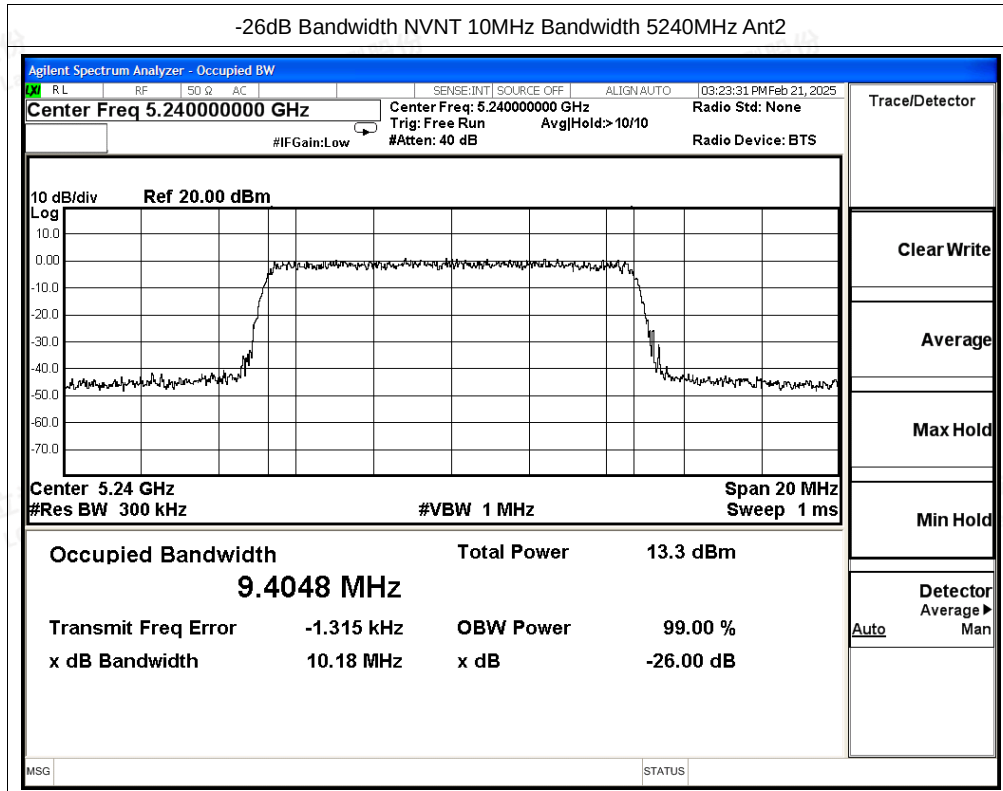


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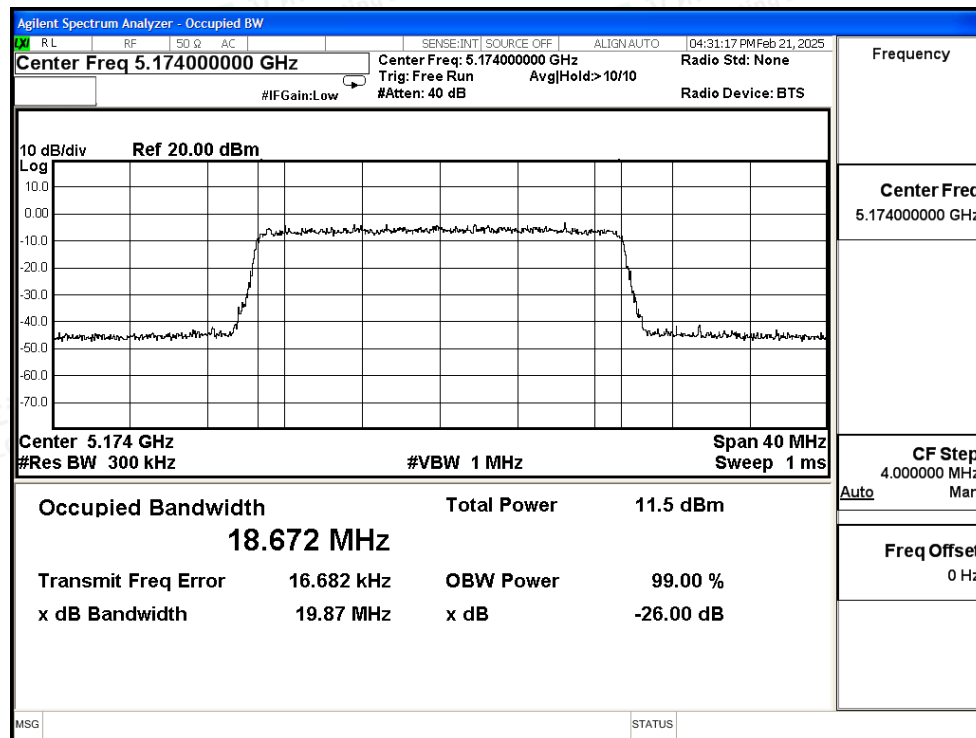
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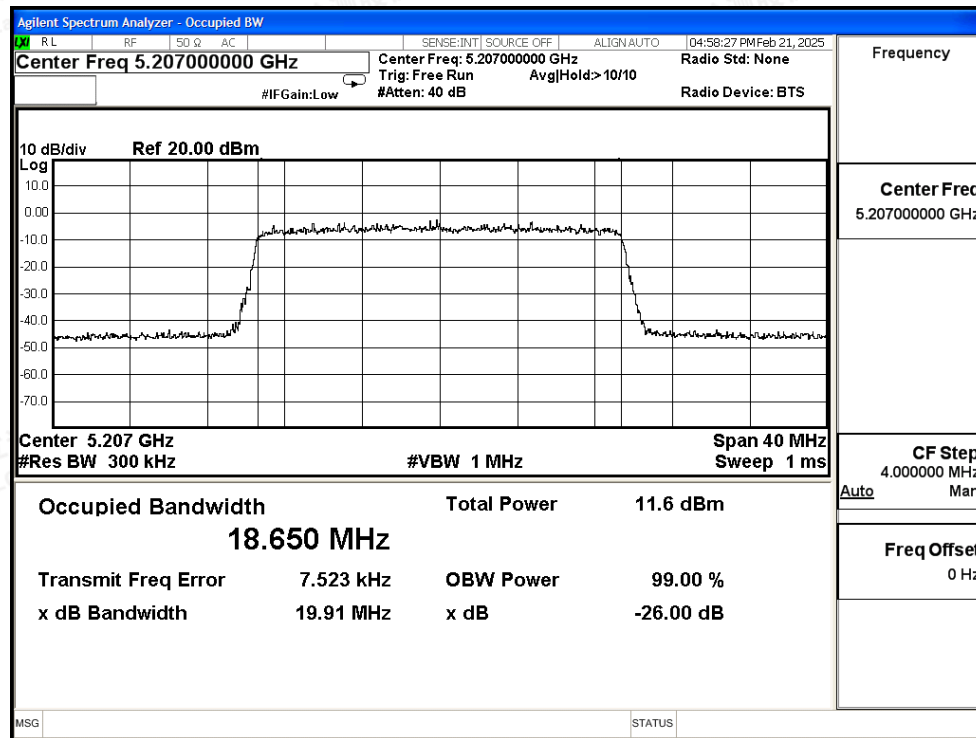


Test Graphs

-26dB Bandwidth NVNT 20MHz Bandwidth 5174MHz Ant2



-26dB Bandwidth NVNT 20MHz Bandwidth 5207MHz Ant2

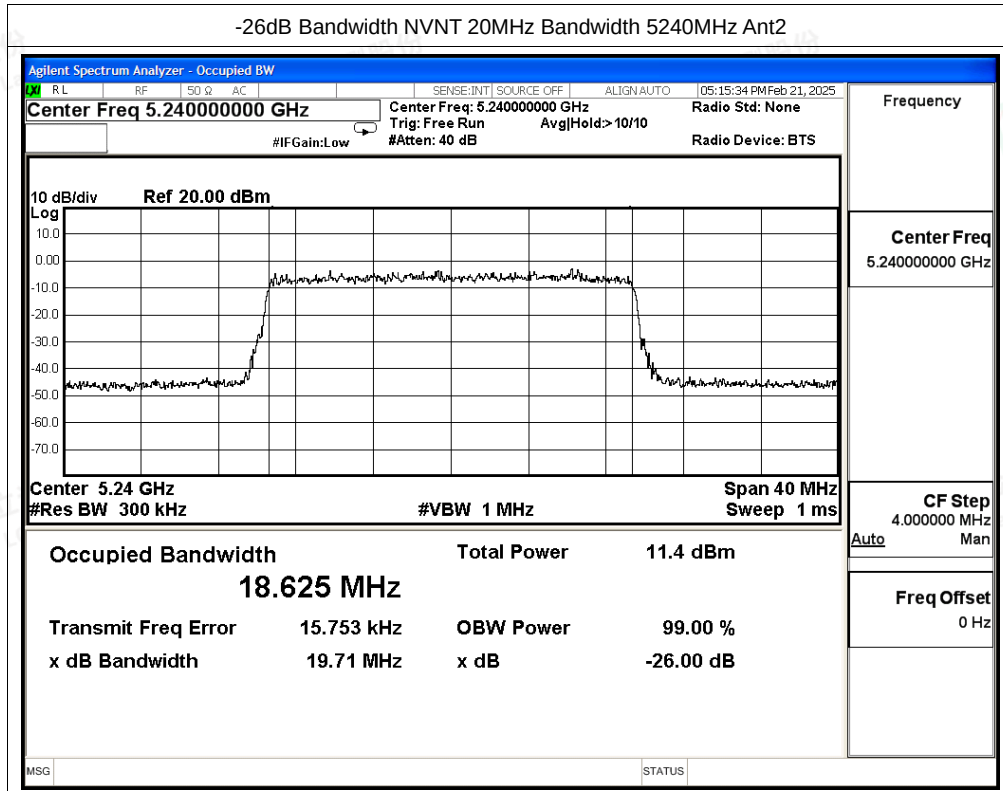


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	13.3	1.35	14.65	24	Pass
NVNT	10MHz Bandwidth	5207	Ant1	13.15	1.40	14.55	24	Pass
NVNT	10MHz Bandwidth	5240	Ant1	13.13	1.37	14.5	24	Pass
NVNT	20MHz Bandwidth	5174	Ant1	12.71	1.41	14.12	24	Pass
NVNT	20MHz Bandwidth	5207	Ant1	12.64	1.40	14.04	24	Pass
NVNT	20MHz Bandwidth	5240	Ant1	13.1	1.36	14.46	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	12.01	1.35	13.36	24	Pass
NVNT	10MHz Bandwidth	5207	Ant2	10.73	1.35	12.08	24	Pass
NVNT	10MHz Bandwidth	5240	Ant2	10.65	1.4	12.05	24	Pass
NVNT	20MHz Bandwidth	5174	Ant2	12.39	1.35	13.74	24	Pass
NVNT	20MHz Bandwidth	5207	Ant2	12.98	1.40	14.38	24	Pass
NVNT	20MHz Bandwidth	5240	Ant2	13.42	1.36	14.78	24	Pass



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B.3 Maximum Power Spectral Density Level

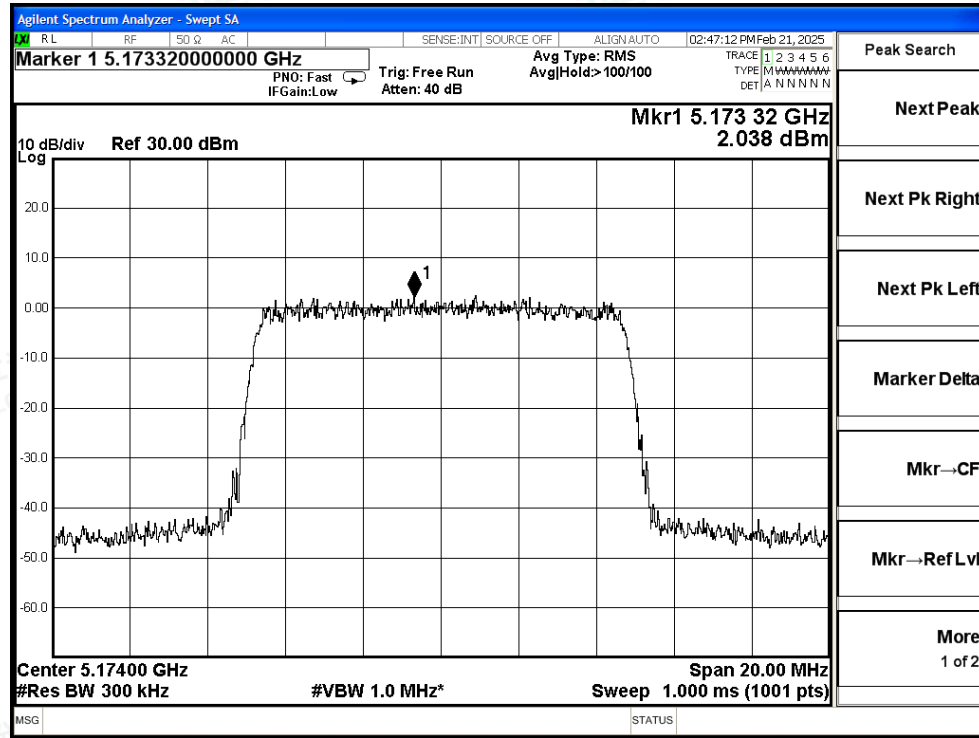
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant1	2.038	1.35	3.388	11	Pass
NVNT	10MHz Bandwidth	5207	Ant1	3.032	1.40	4.432	11	Pass
NVNT	10MHz Bandwidth	5240	Ant1	1.293	1.37	2.663	11	Pass
NVNT	20MHz Bandwidth	5174	Ant1	-0.632	1.41	0.778	11	Pass
NVNT	20MHz Bandwidth	5207	Ant1	-0.568	1.40	0.832	11	Pass
NVNT	20MHz Bandwidth	5240	Ant1	-0.351	1.36	1.009	11	Pass



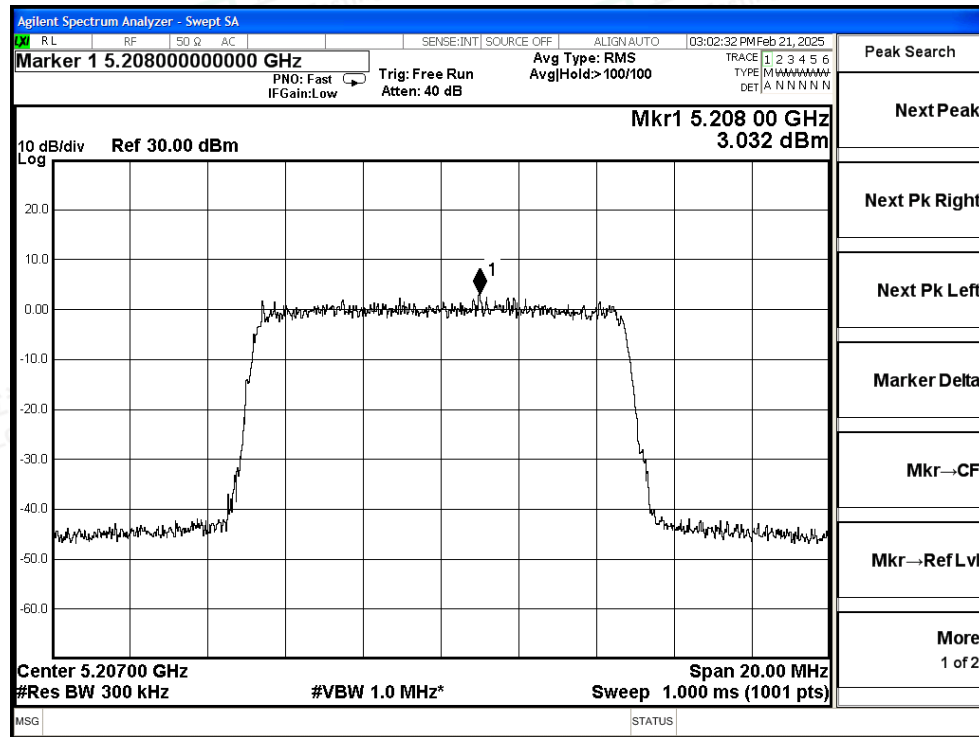


Test Graphs

PSD NVNT 10MHz Bandwidth 5174MHz Ant1



PSD NVNT 10MHz Bandwidth 5207MHz Ant1

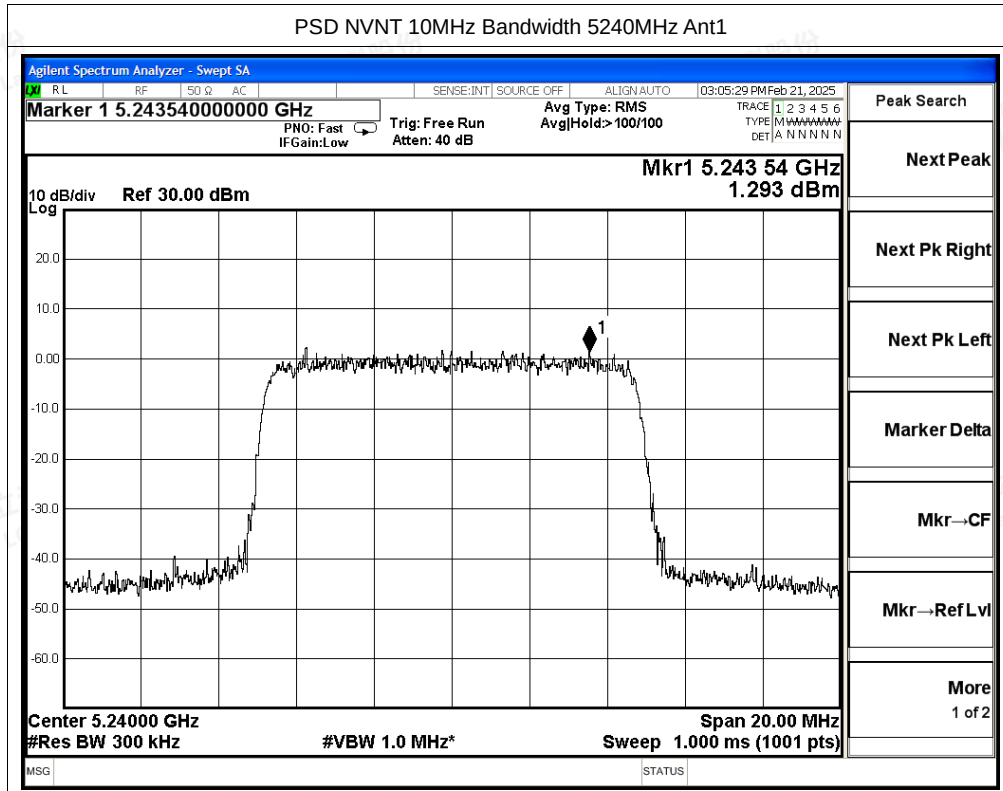


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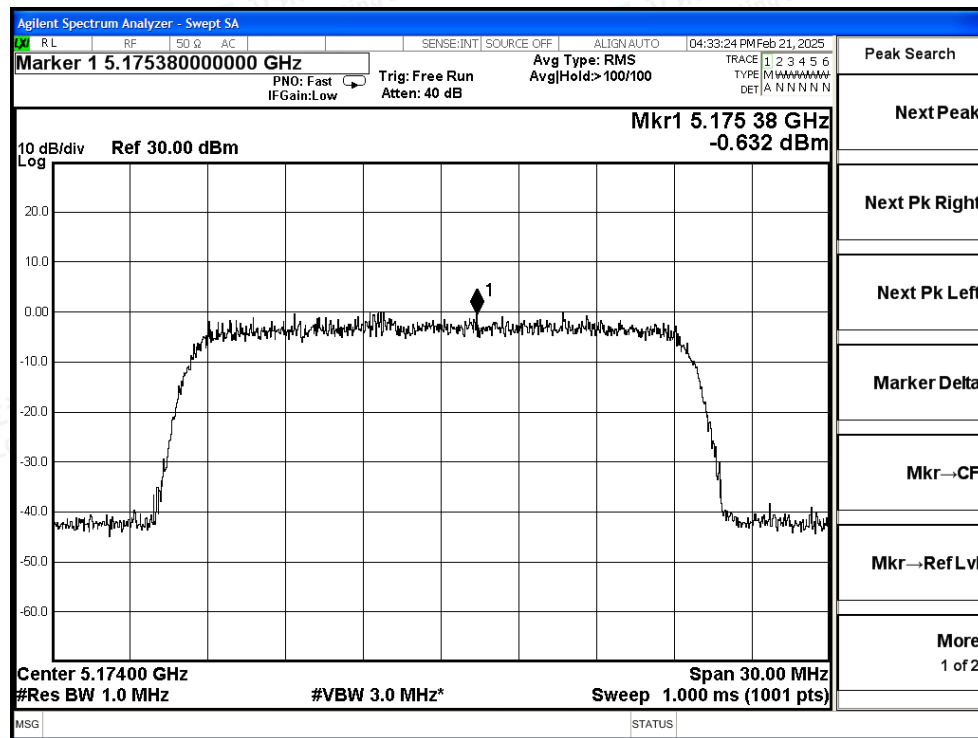
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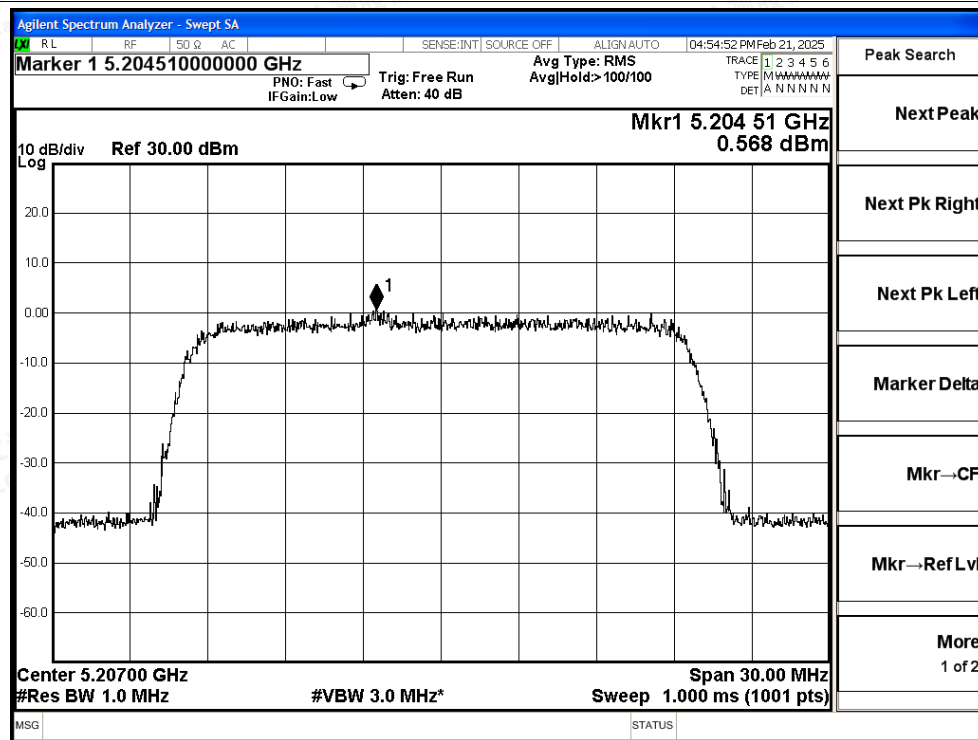


Test Graphs

PSD NVNT 20MHz Bandwidth 5174MHz Ant1



PSD NVNT 20MHz Bandwidth 5207MHz Ant1

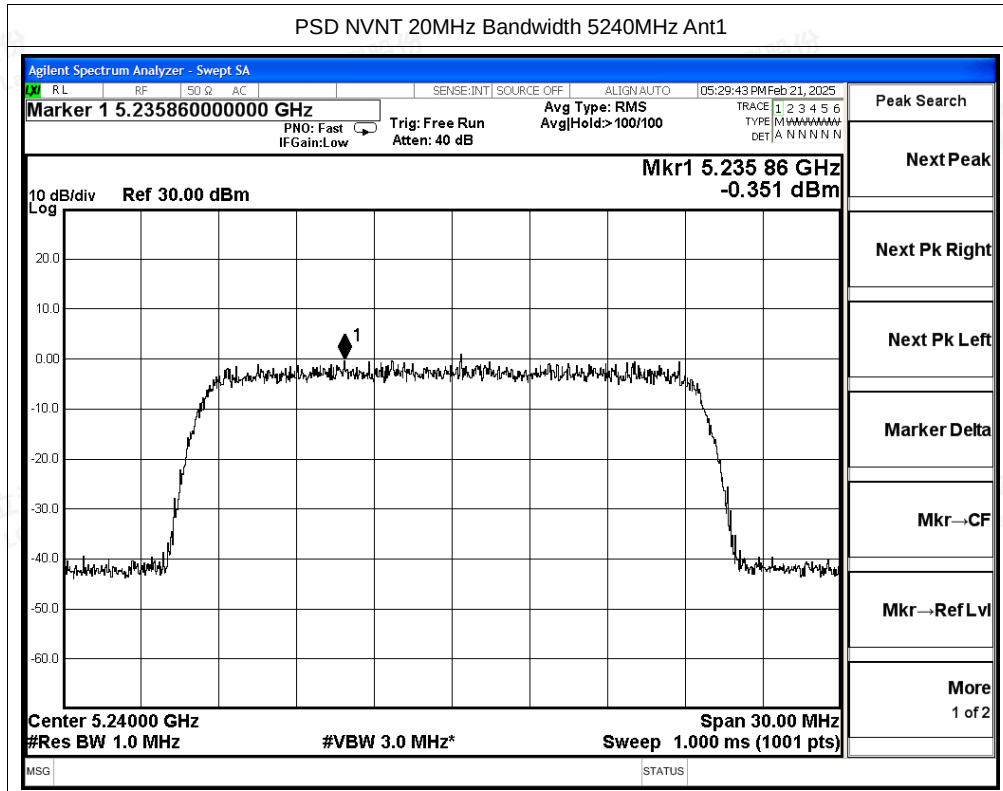


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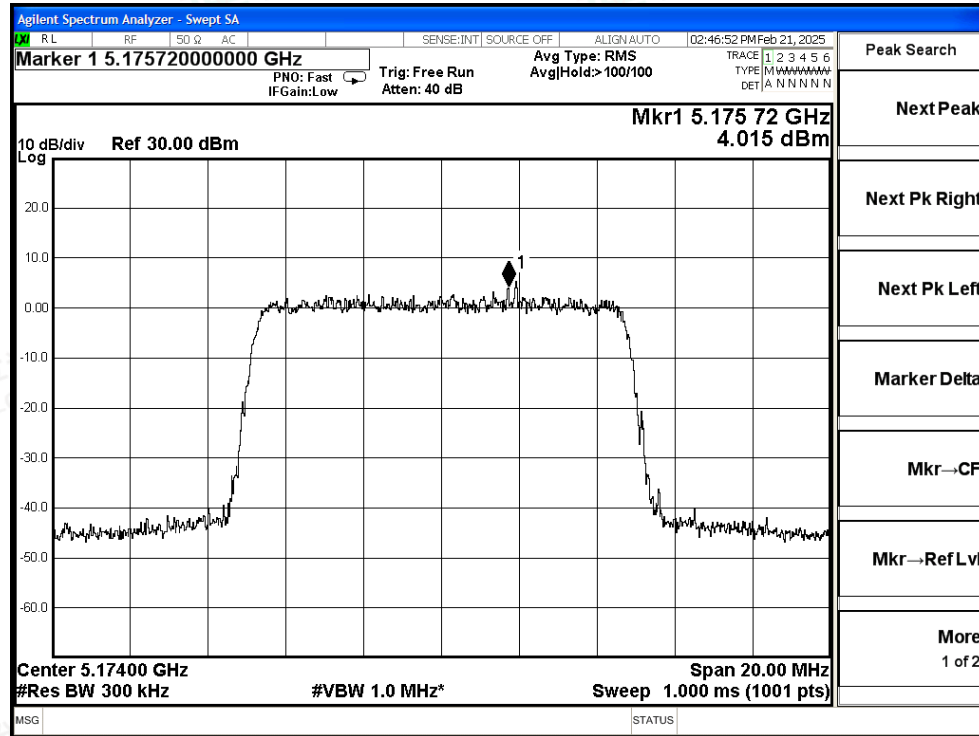
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	4.015	1.35	5.365	11	Pass
NVNT	10MHz Bandwidth	5207	Ant2	1.361	1.35	2.711	11	Pass
NVNT	10MHz Bandwidth	5240	Ant2	1.090	1.4	2.49	11	Pass
NVNT	20MHz Bandwidth	5174	Ant2	0.106	1.35	1.456	11	Pass
NVNT	20MHz Bandwidth	5207	Ant2	0.931	1.40	2.331	11	Pass
NVNT	20MHz Bandwidth	5240	Ant2	0.451	1.36	1.811	11	Pass



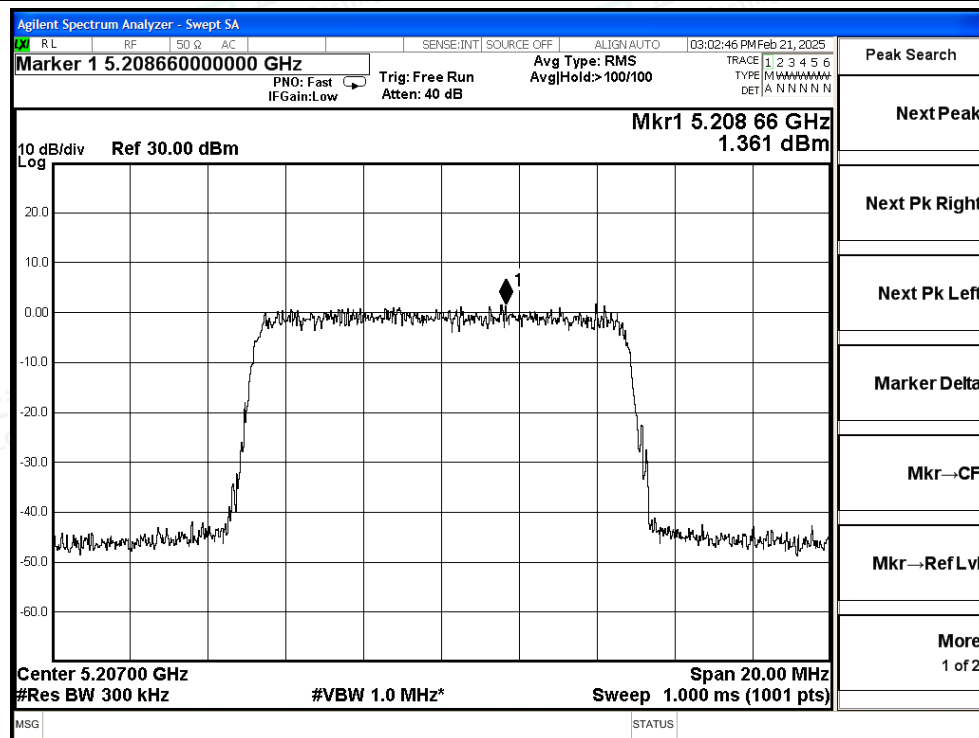


Test Graphs

PSD NVNT 10MHz Bandwidth 5174MHz Ant2



PSD NVNT 10MHz Bandwidth 5207MHz Ant2

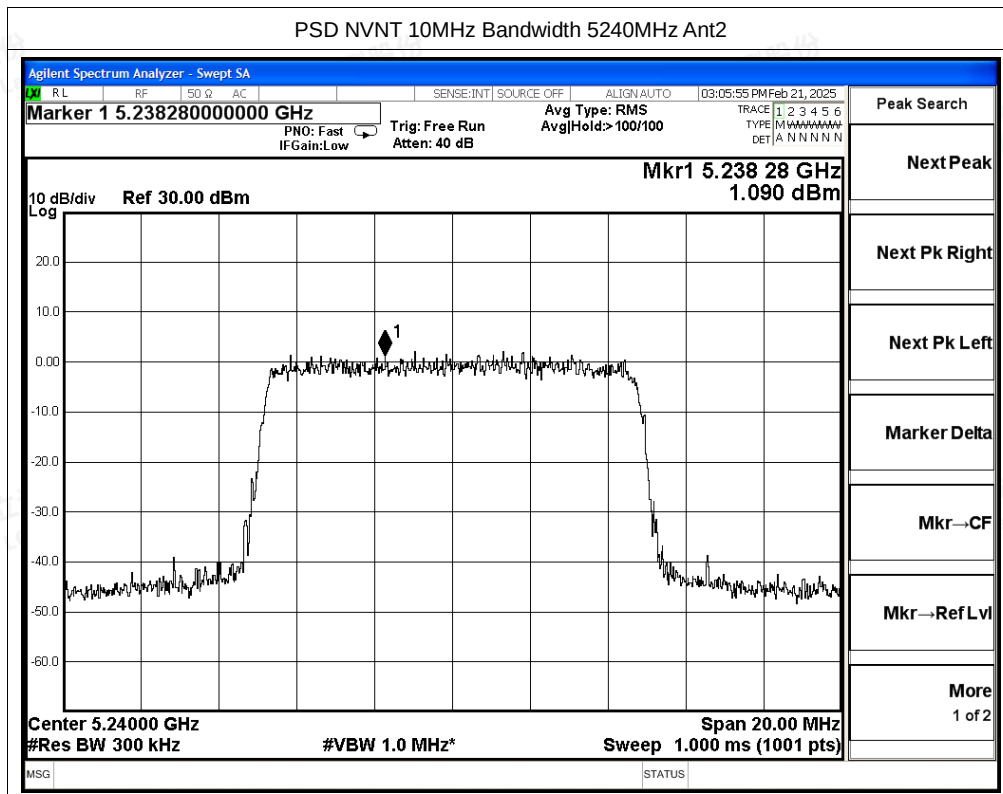


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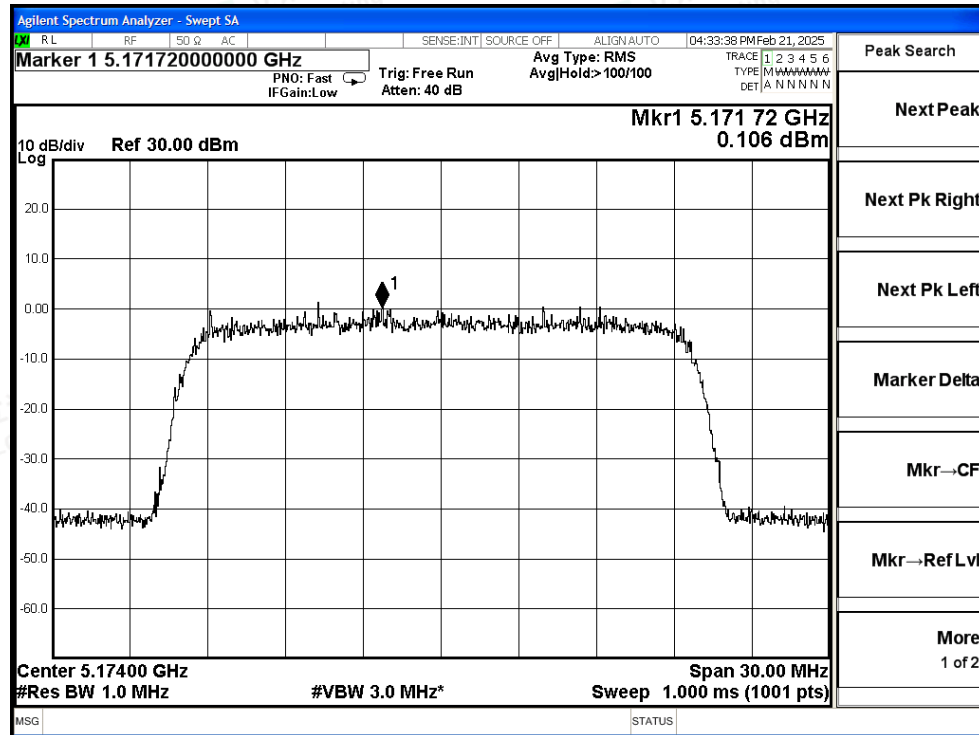
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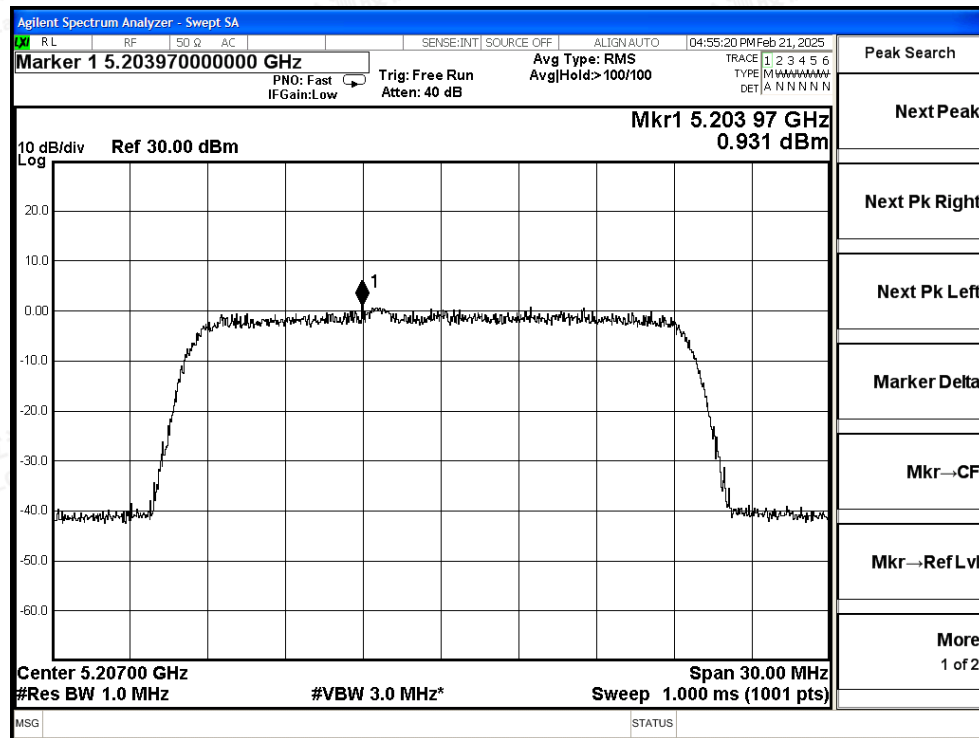


Test Graphs

PSD NVNT 20MHz Bandwidth 5174MHz Ant2



PSD NVNT 20MHz Bandwidth 5207MHz Ant2

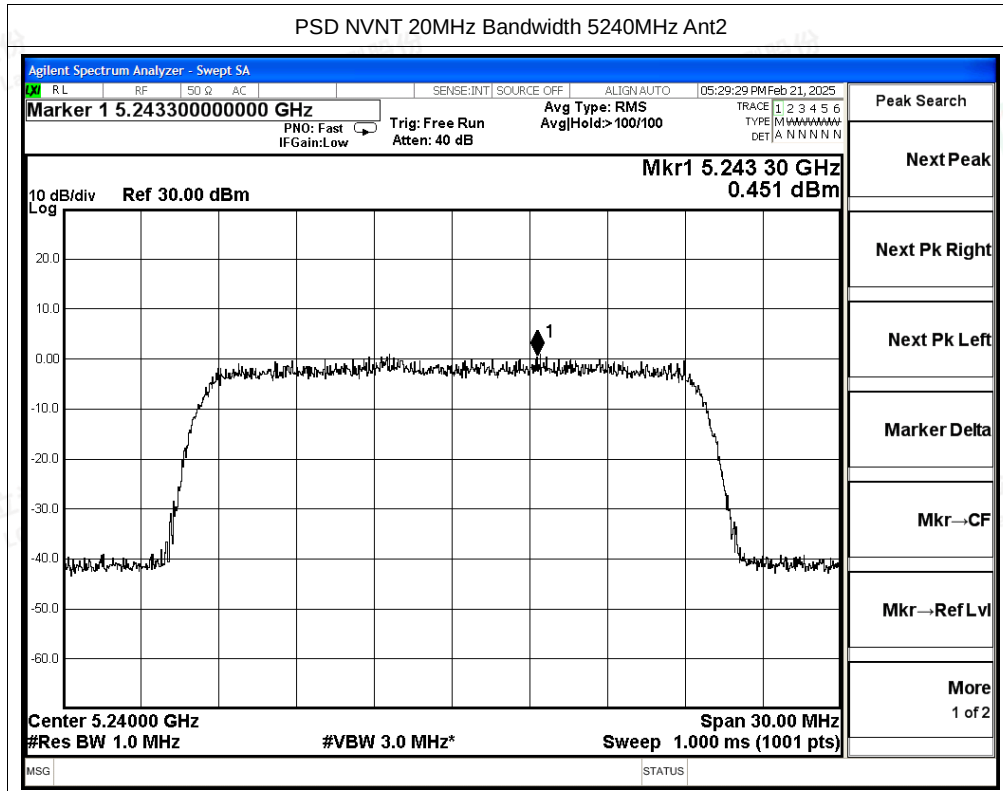


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B.4 Restrict Band

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	-51.2	2.0	-	46.03	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	4500	-53.85	2.0	1.35	44.73	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5121.9	-49.67	2.0	-	47.56	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5124.7	-53.39	2.0	1.35	45.19	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5150	-50.5	2.0	-	46.73	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant1	5150	-53.07	2.0	1.35	45.51	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5350	-48.72	2.0	-	48.51	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5350	-51.98	2.0	1.37	46.62	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5388.44	-49.03	2.0	-	48.2	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5392.52	-51.82	2.0	1.37	46.78	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5460	-49.87	2.0	-	47.36	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant1	5460	-52.24	2.0	1.37	46.36	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	4500	-49.71	2.0	-	47.52	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	4500	-54.63	2.0	1.41	44.01	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5137.2	-48.02	2.0	-	49.21	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5137.2	-52.35	2.0	1.41	46.29	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5150	-48.82	2.0	-	48.41	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant1	5150	-51.6	2.0	1.41	47.04	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5350	-48.43	2.0	-	48.8	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5350	-50.18	2.0	1.36	48.41	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5388.44	-49.66	2.0	-	47.57	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5384.36	-51.62	2.0	1.36	46.97	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5460	-49.48	2.0	-	47.75	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant1	5460	-52.23	2.0	1.36	46.36	Average	54	Pass



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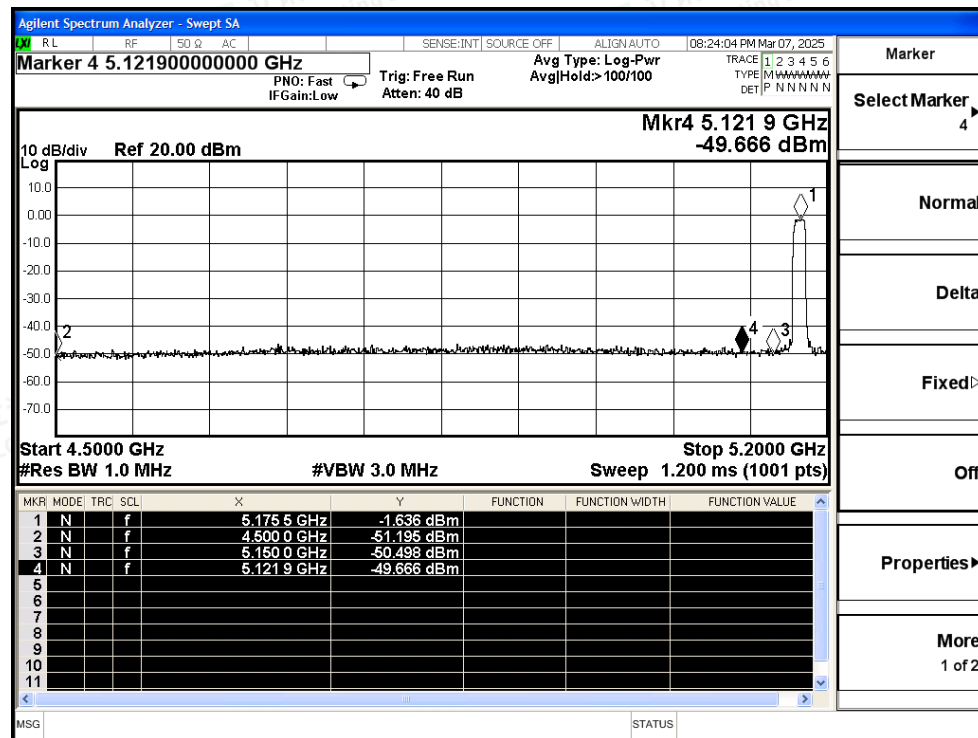
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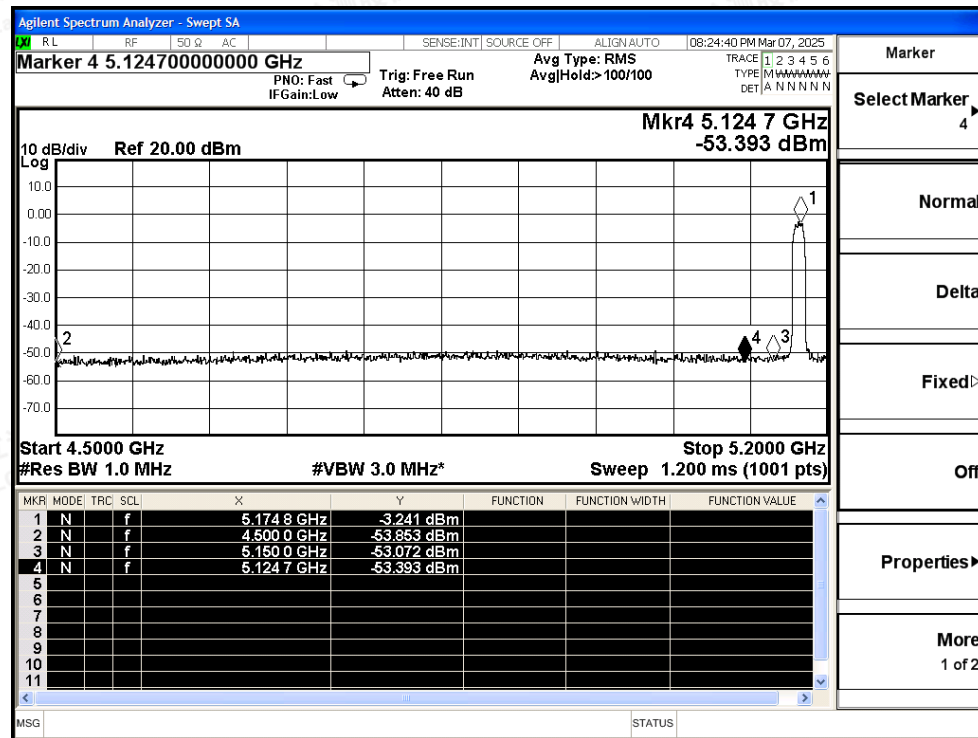


Test Graphs

Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant1 Peak



Restrict Band NVNT 10MHz Bandwidth 5174MHz Ant1 Average



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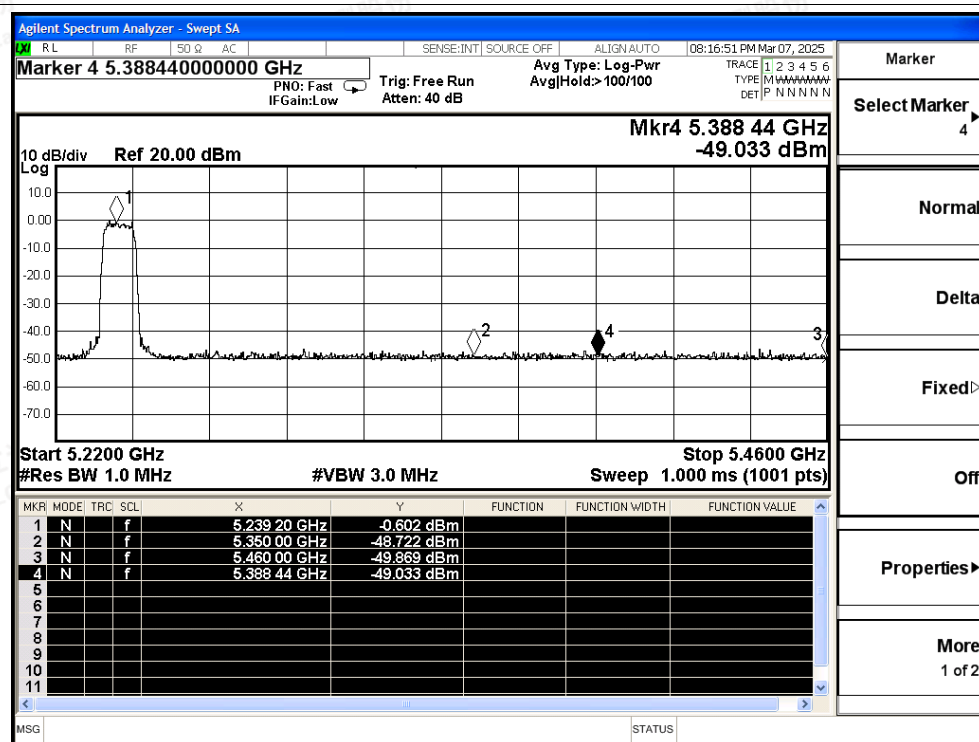
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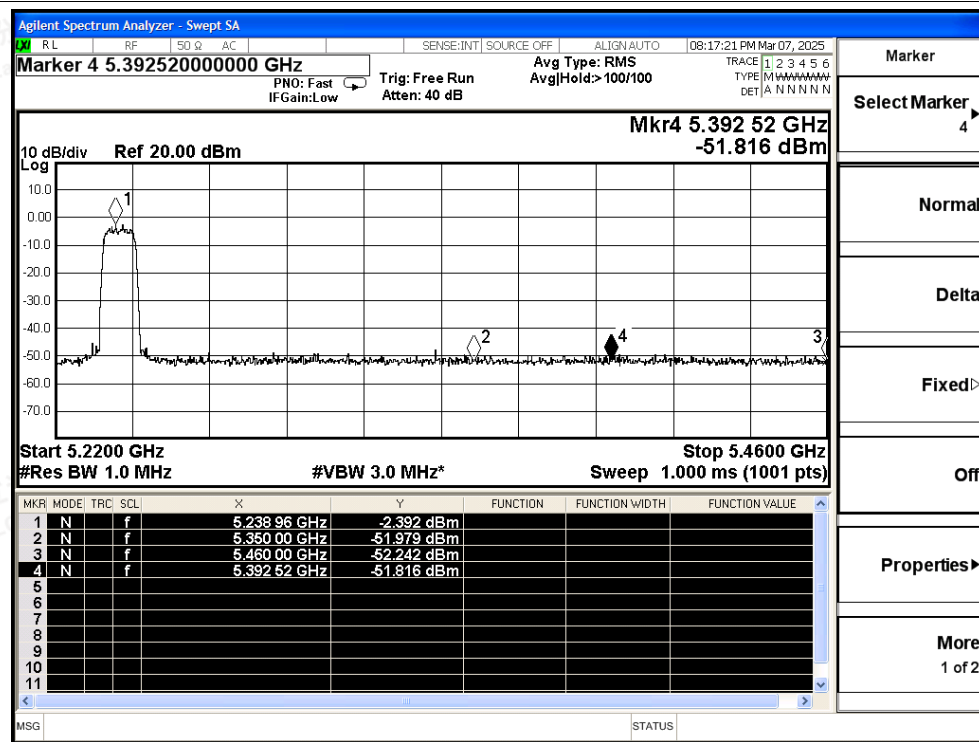
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Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant1 Peak



Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant1 Average



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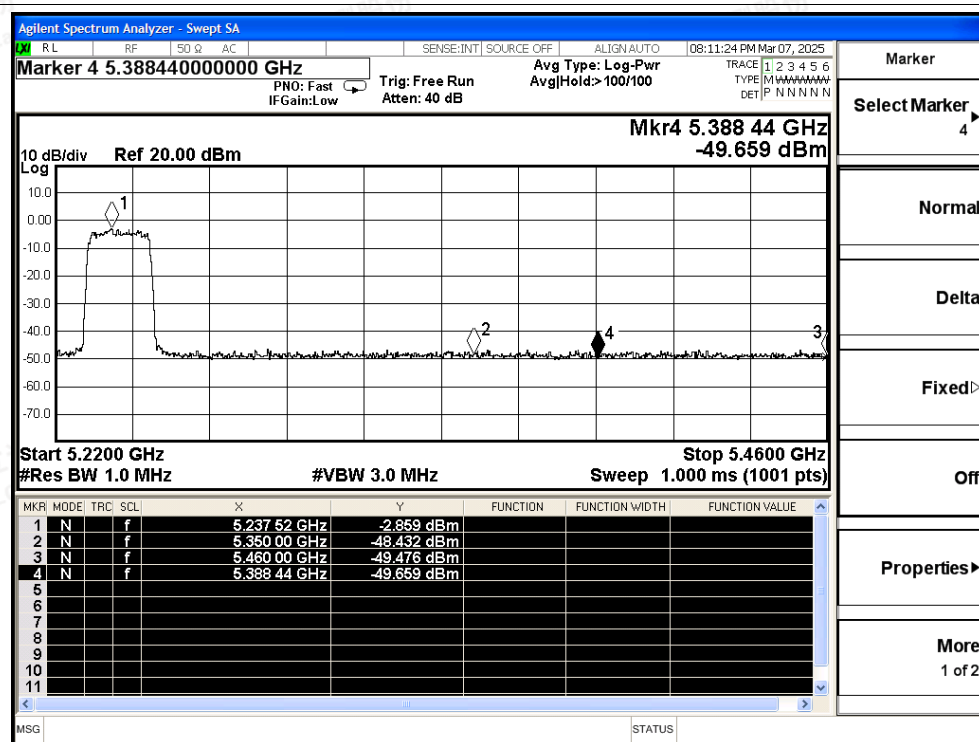
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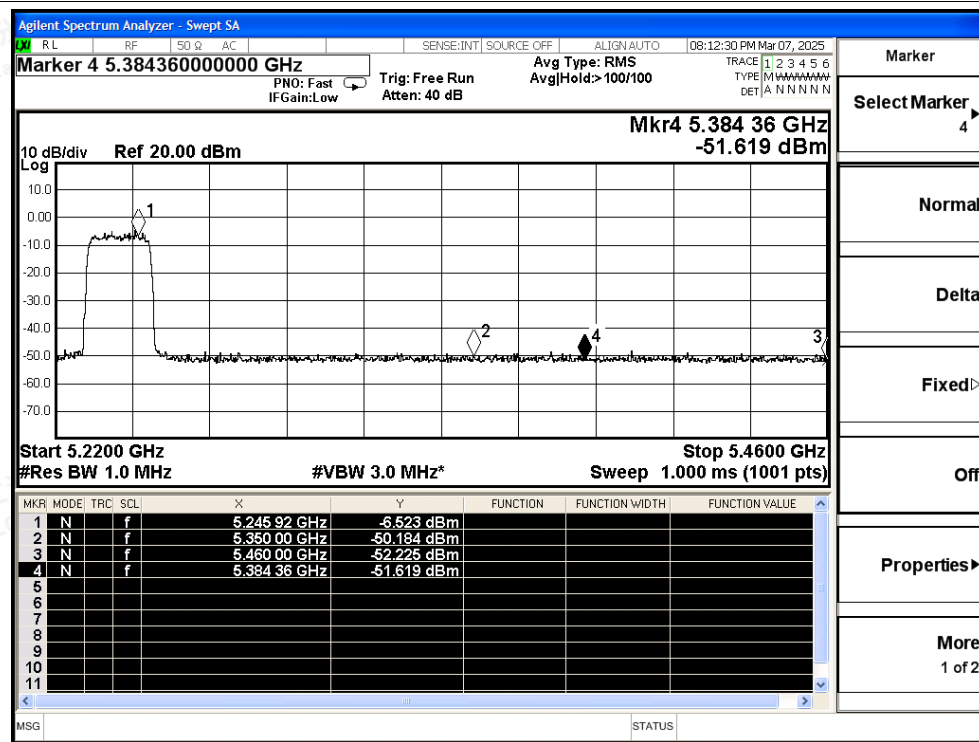
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Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant1 Peak



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	-51.25	2.0	-	45.98	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	4500	-53.08	2.0	1.35	45.5	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5137.3	-49.56	2.0	-	47.67	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5130.3	-51.82	2.0	1.35	46.76	Average	54	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5150	-50.45	2.0	-	46.78	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5174	Ant2	5150	-52.73	2.0	1.35	45.85	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5350	-50.37	2.0	-	46.86	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5350	-52.03	2.0	1.4	46.6	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5389.4	-50.24	2.0	-	46.99	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5392.52	-52.08	2.0	1.4	46.55	Average	54	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5460	-51.05	2.0	-	46.18	Peak	68.2	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5460	-52.13	2.0	1.4	46.5	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	4500	-50.78	2.0	-	46.45	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	4500	-53.41	2.0	1.35	45.17	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5128.1	-49.53	2.0	-	47.7	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5121.8	-51.75	2.0	1.35	46.83	Average	54	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5150	-48.63	2.0	-	48.6	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5174	Ant2	5150	-52.25	2.0	1.35	46.33	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5350	-50.05	2.0	-	47.18	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5350	-53.06	2.0	1.36	45.53	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5385.08	-48.73	2.0	-	48.5	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5379.32	-52.79	2.0	1.36	45.8	Average	54	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5460	-49.42	2.0	-	47.81	Peak	68.2	Pass
NVNT	20MHz Bandwidth	5240	Ant2	5460	-51.52	2.0	1.36	47.07	Average	54	Pass

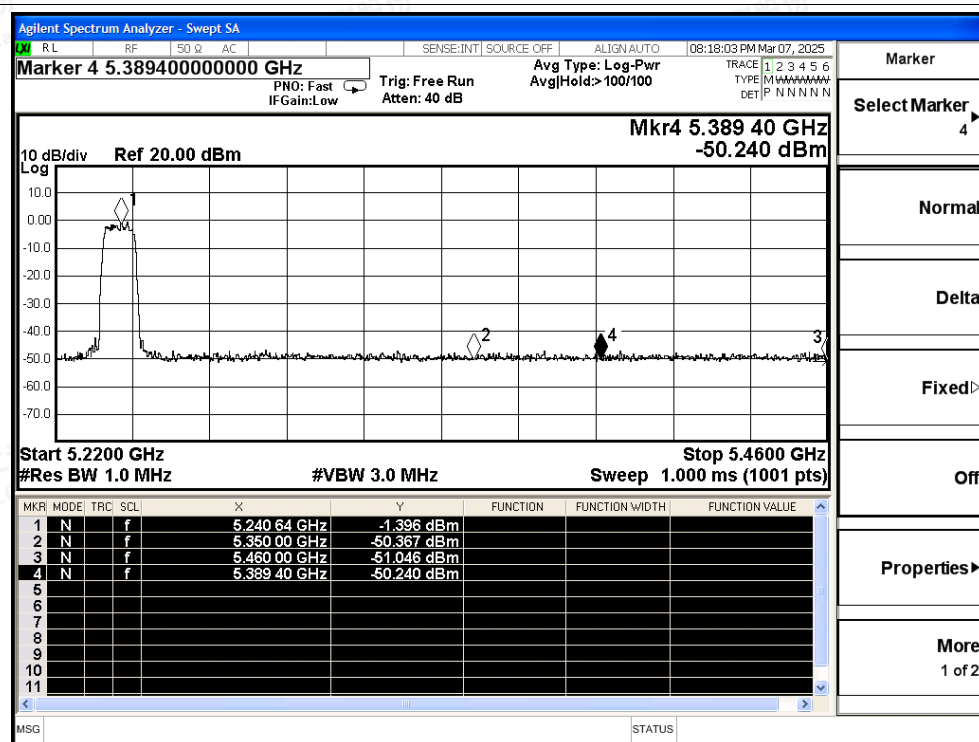




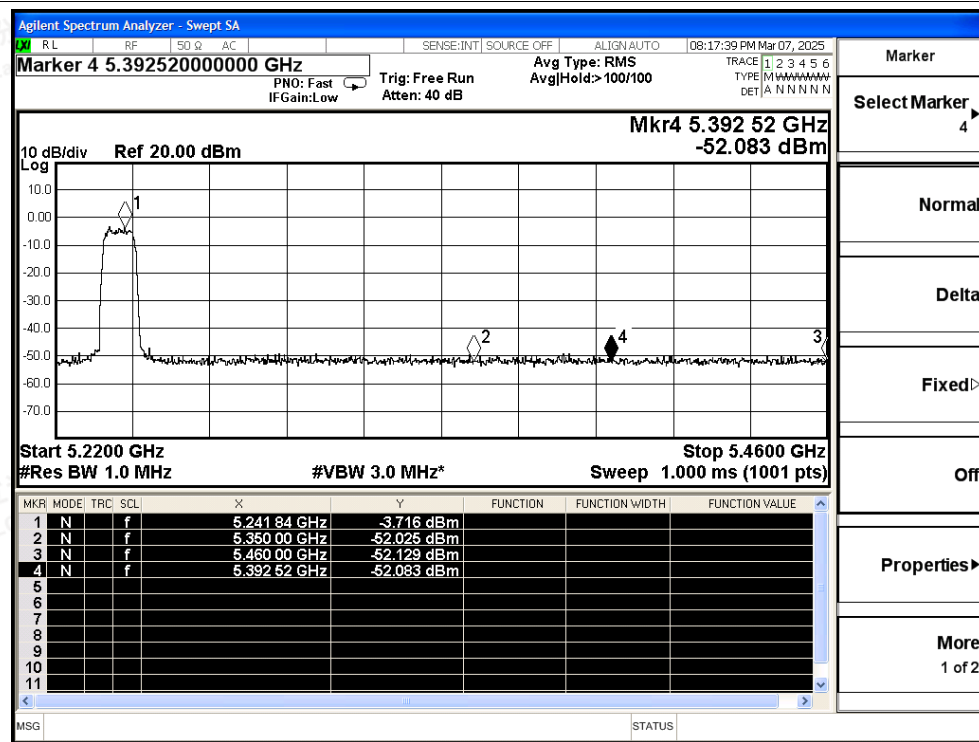
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Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant2 Peak



Restrict Band NVNT 10MHz Bandwidth 5240MHz Ant2 Average



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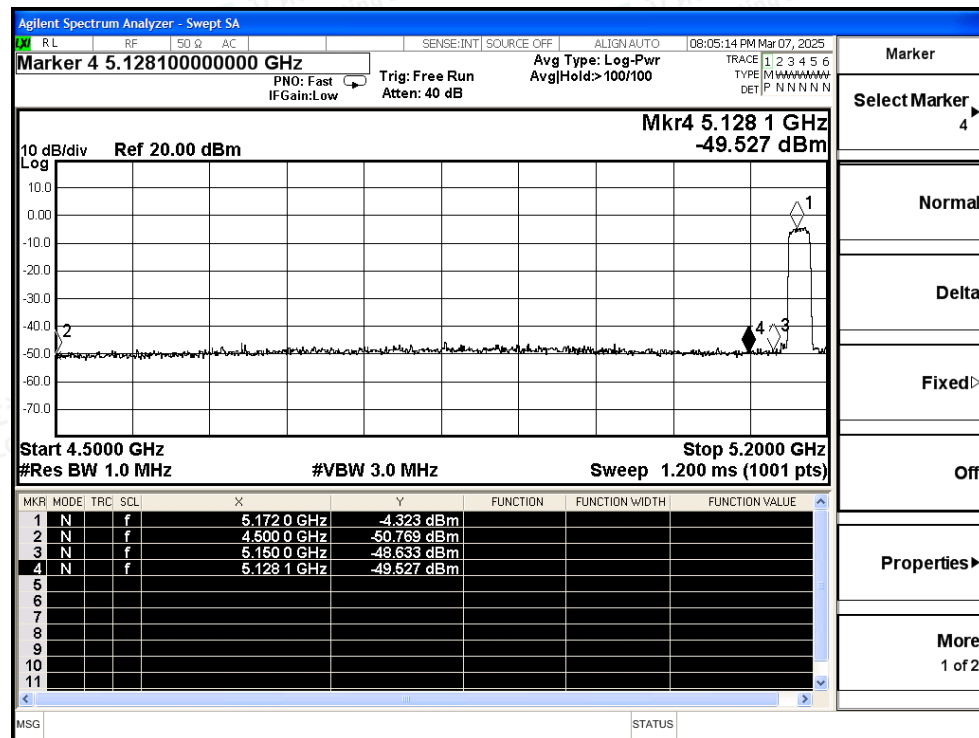
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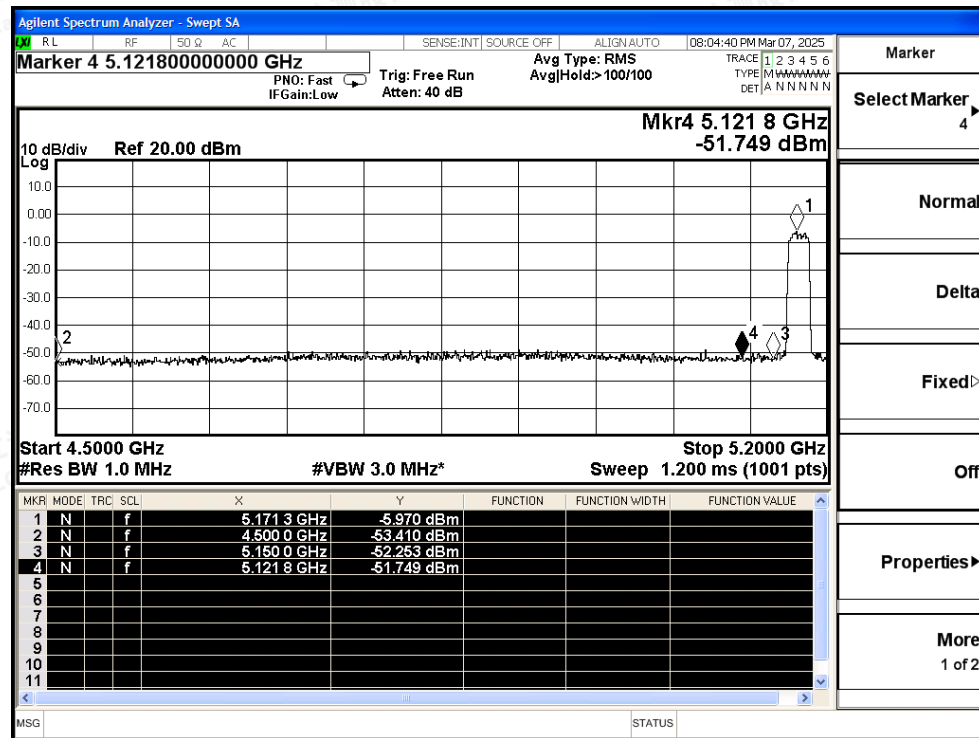


Test Graphs

Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant2 Peak



Restrict Band NVNT 20MHz Bandwidth 5174MHz Ant2 Average



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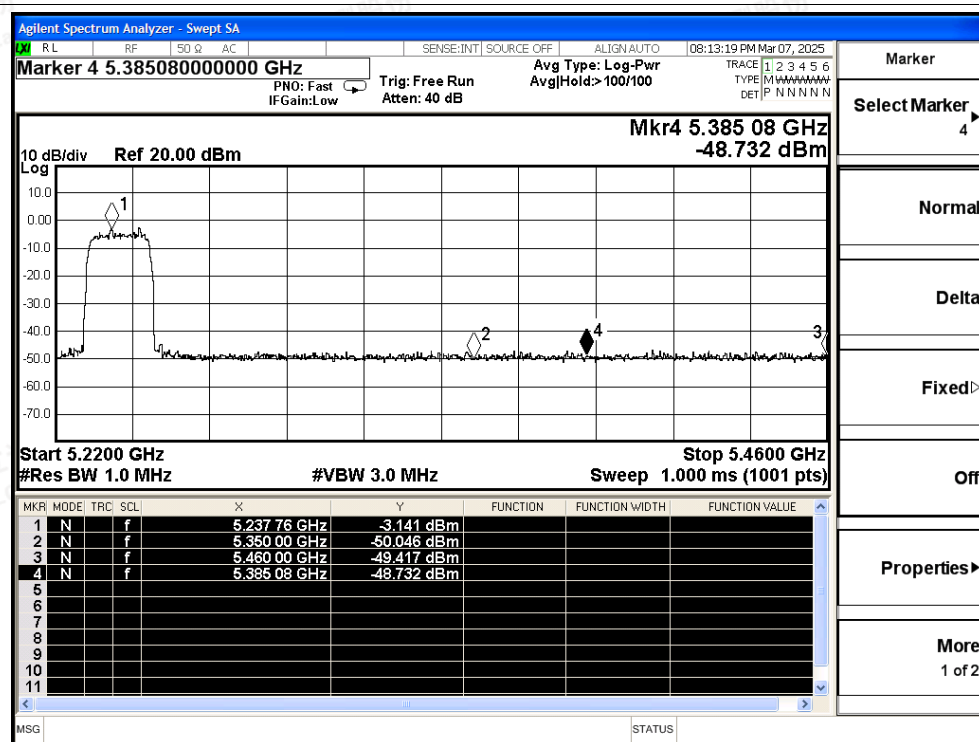
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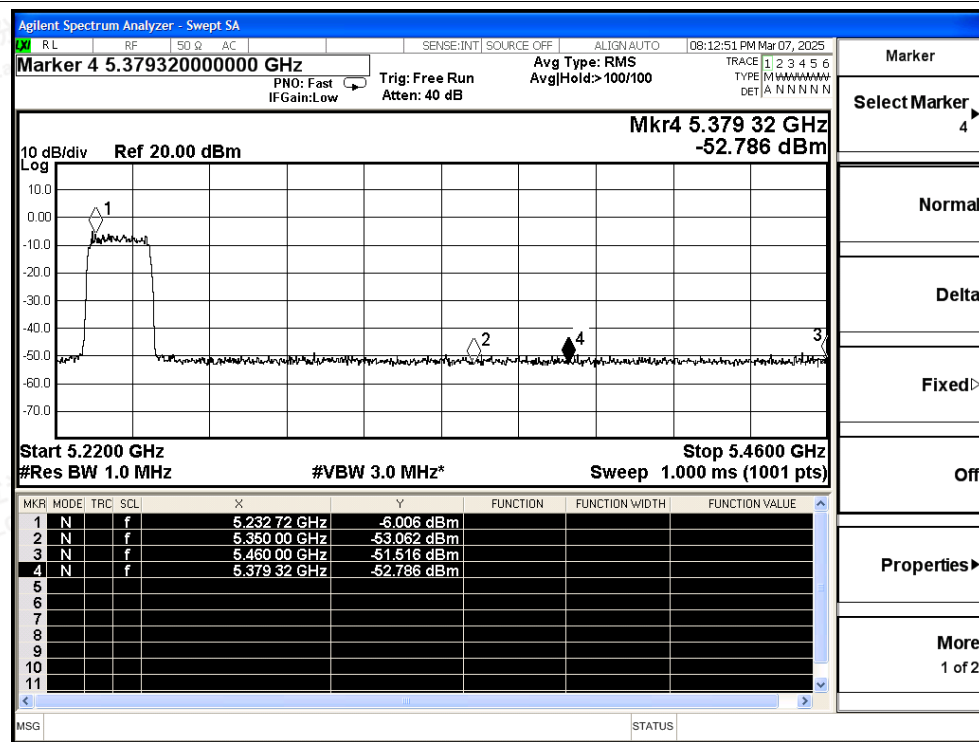
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Restrict Band NVNT 20MHz Bandwidth 5240MHz Ant2 Peak



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

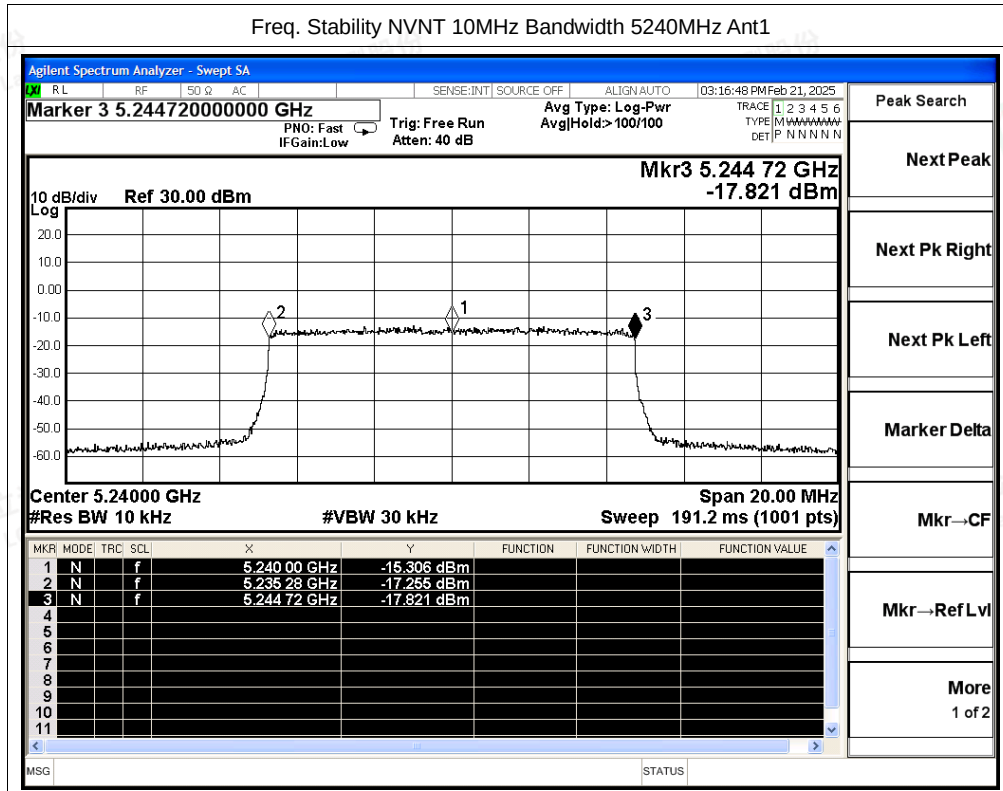


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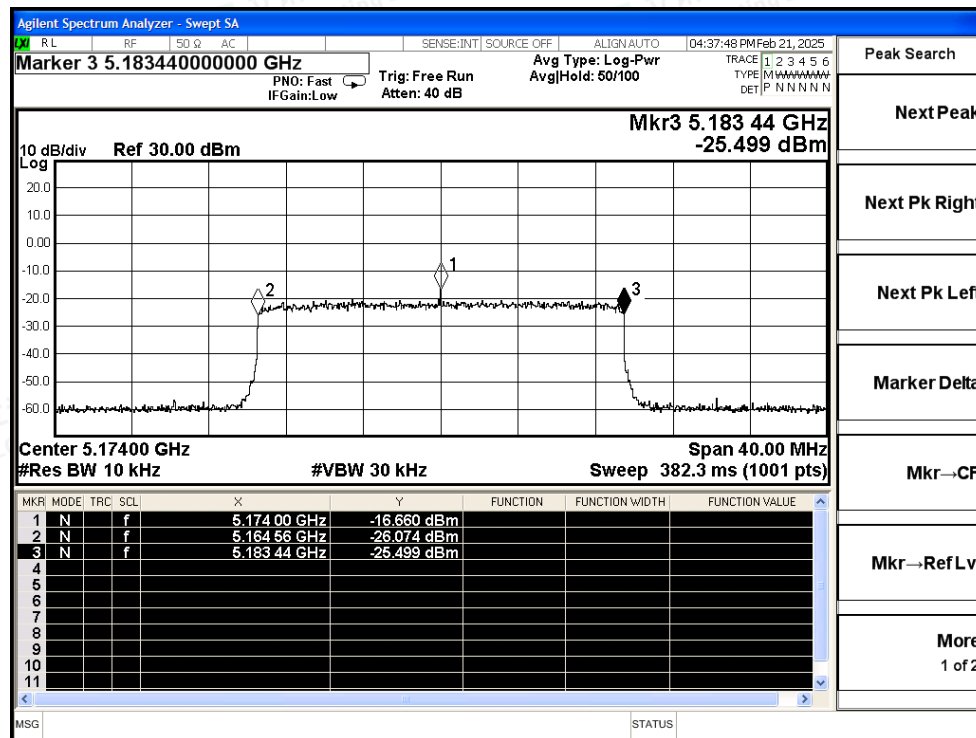
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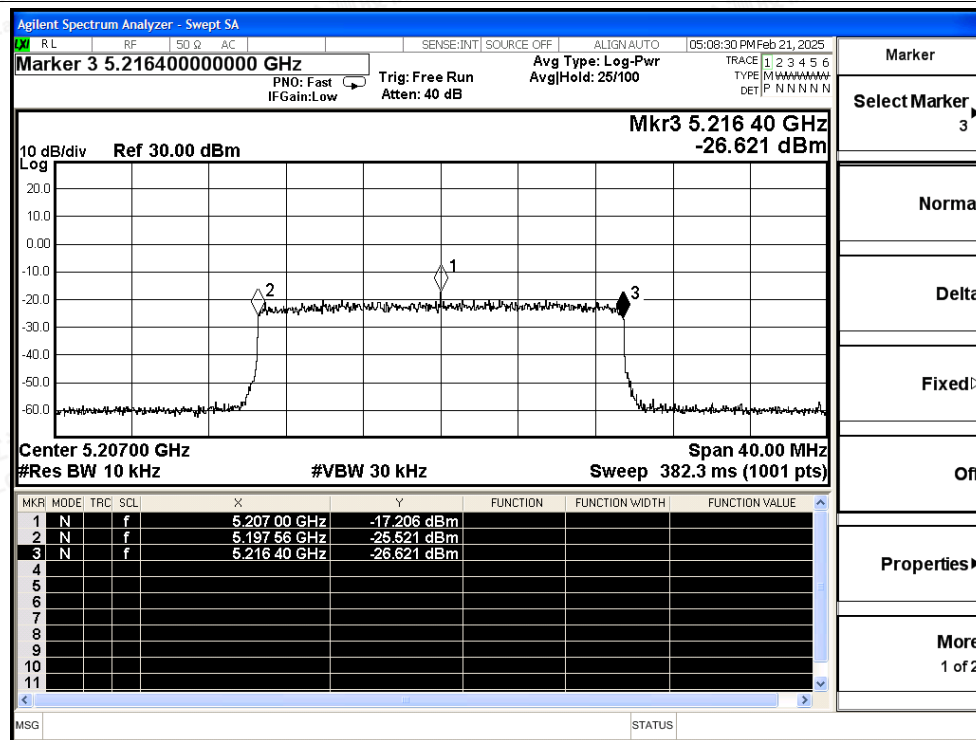


Test Graphs

Freq. Stability NVNT 20MHz Bandwidth 5174MHz Ant1



Freq. Stability NVNT 20MHz Bandwidth 5207MHz Ant1



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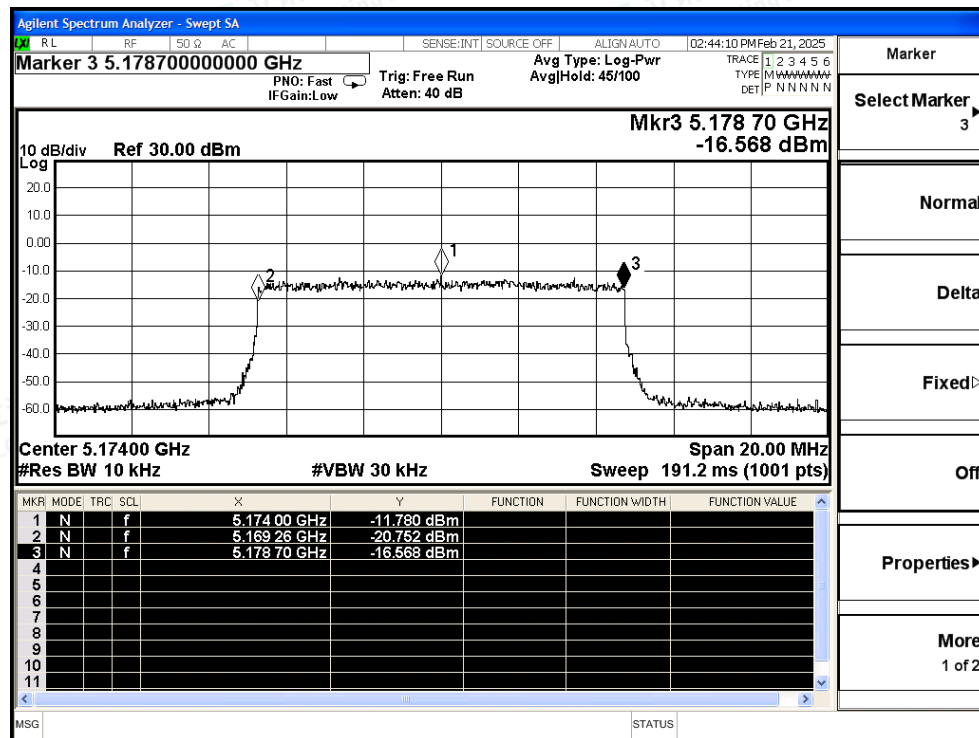
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	10MHz Bandwidth	5174	Ant2	5174.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5207	Ant2	5207.00	0	0	25	Pass
NVNT	10MHz Bandwidth	5240	Ant2	5240.00	0	0	25	Pass
NVNT	20MHz Bandwidth	5174	Ant2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



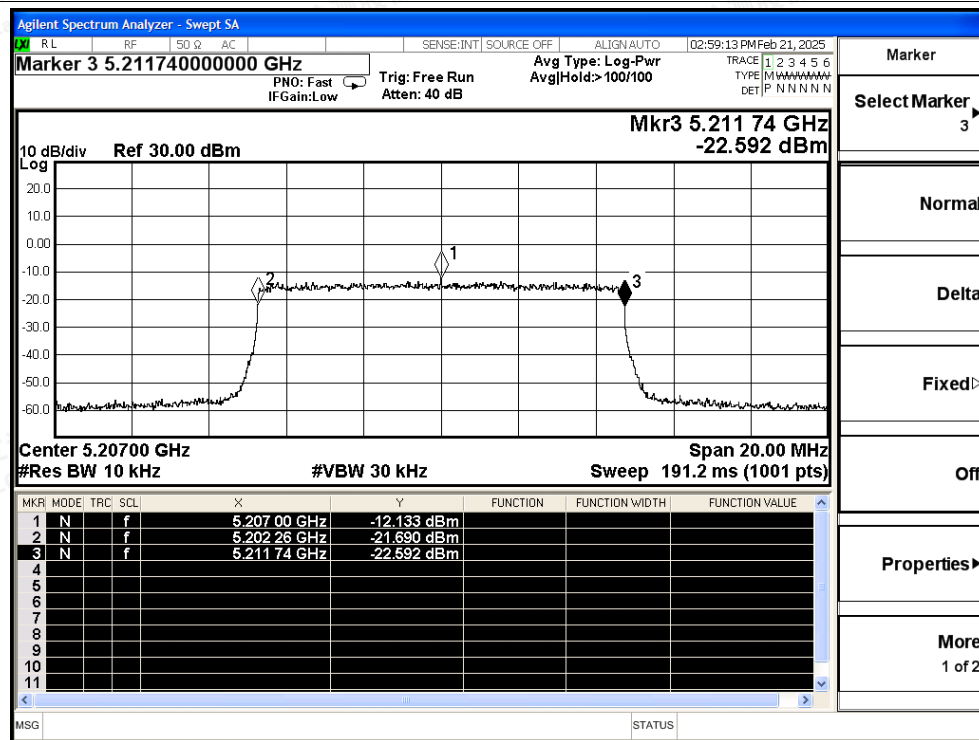


Test Graphs

Freq. Stability NVNT 10MHz Bandwidth 5174MHz Ant2



Freq. Stability NVNT 10MHz Bandwidth 5207MHz Ant2

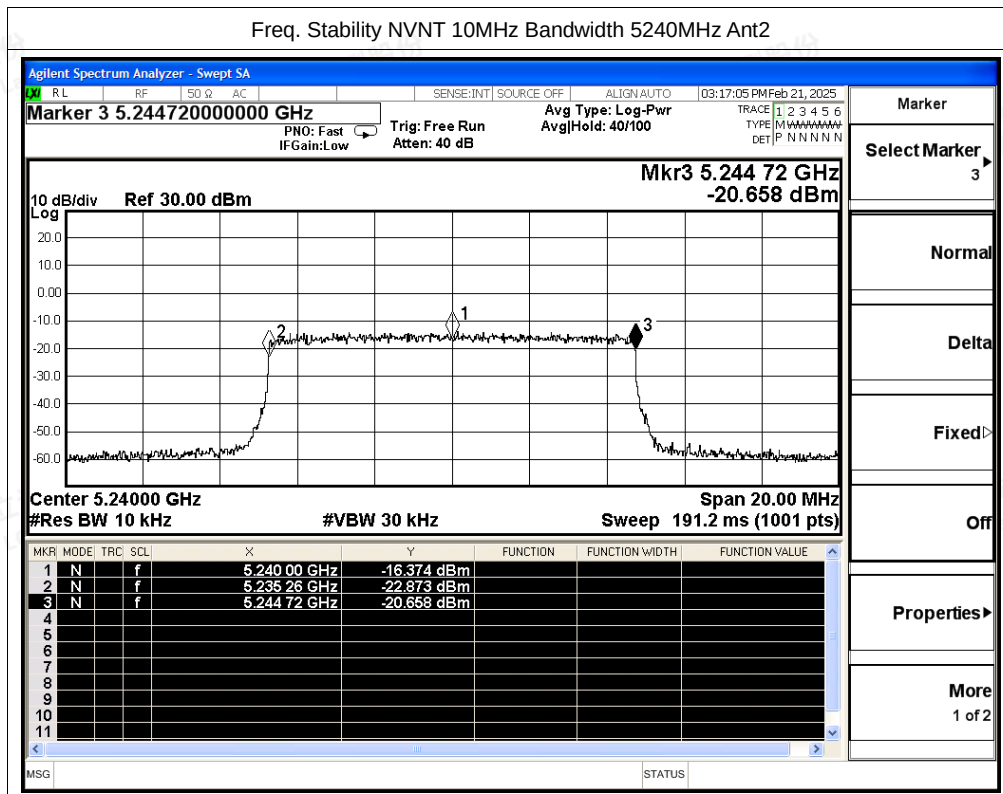


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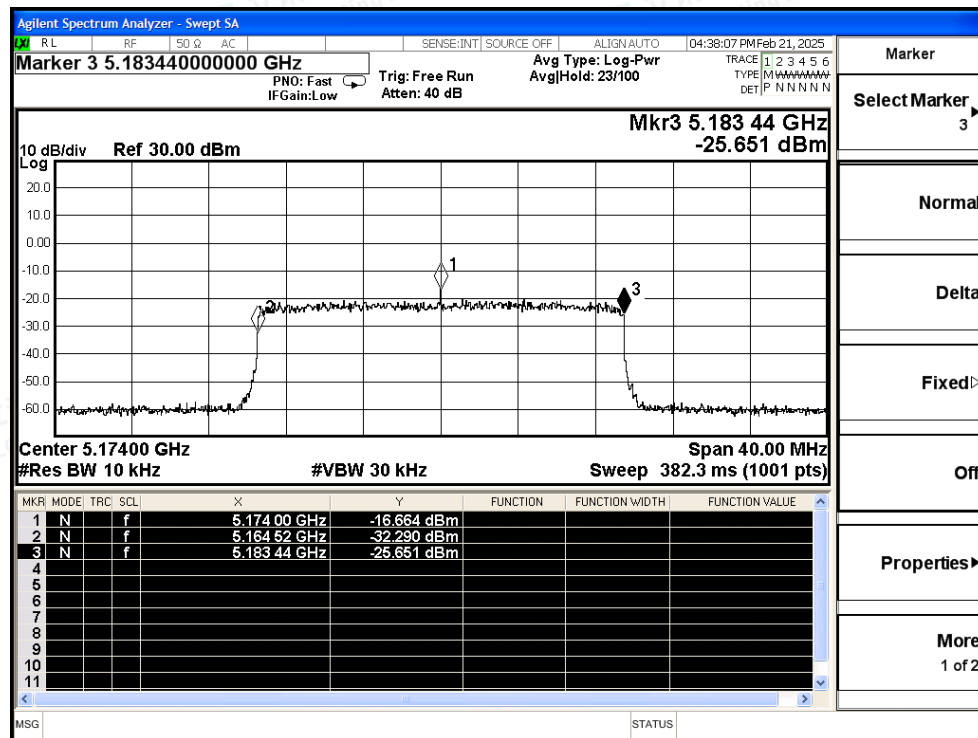
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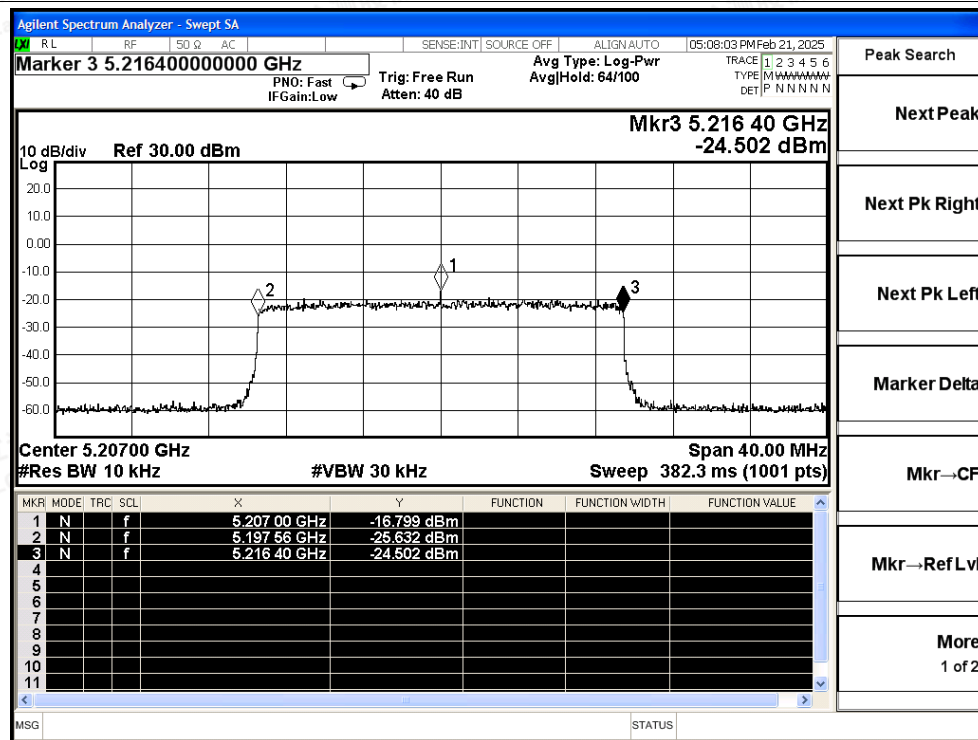


Test Graphs

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	73.24	1.35	0.61
NVNT	10MHz Bandwidth	5207	Ant1	72.52	1.40	0.62
NVNT	10MHz Bandwidth	5240	Ant1	73.00	1.37	0.62
NVNT	20MHz Bandwidth	5174	Ant1	72.31	1.41	0.63
NVNT	20MHz Bandwidth	5207	Ant1	72.45	1.40	0.61
NVNT	20MHz Bandwidth	5240	Ant1	73.17	1.36	0.62



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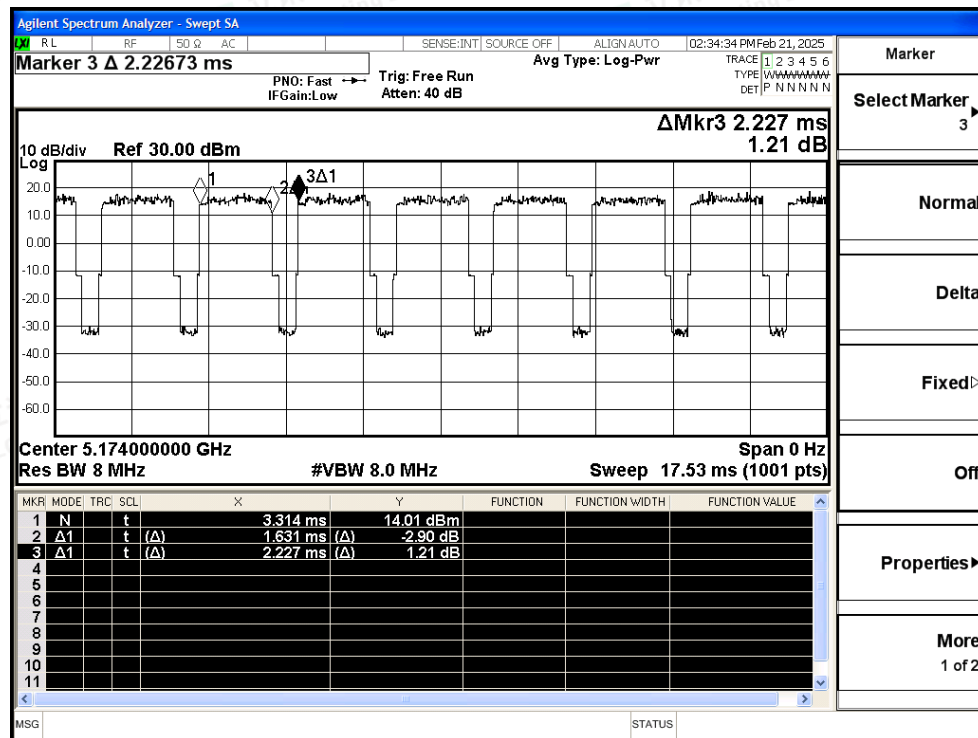
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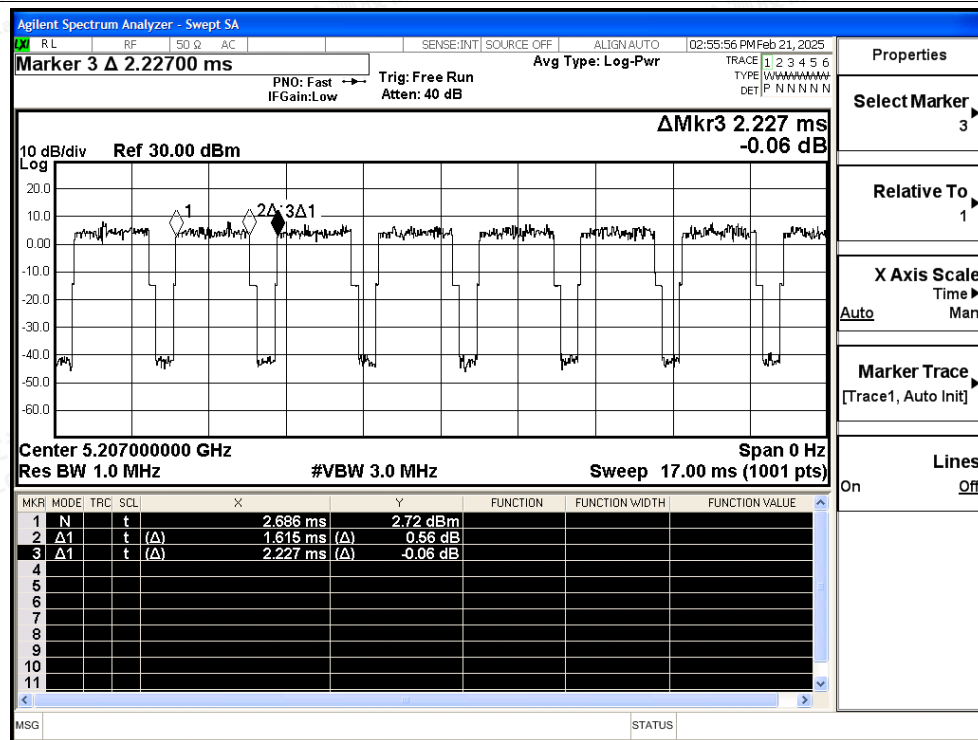


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5174MHz Ant1



Duty Cycle NVNT 10MHz Bandwidth 5207MHz Ant1

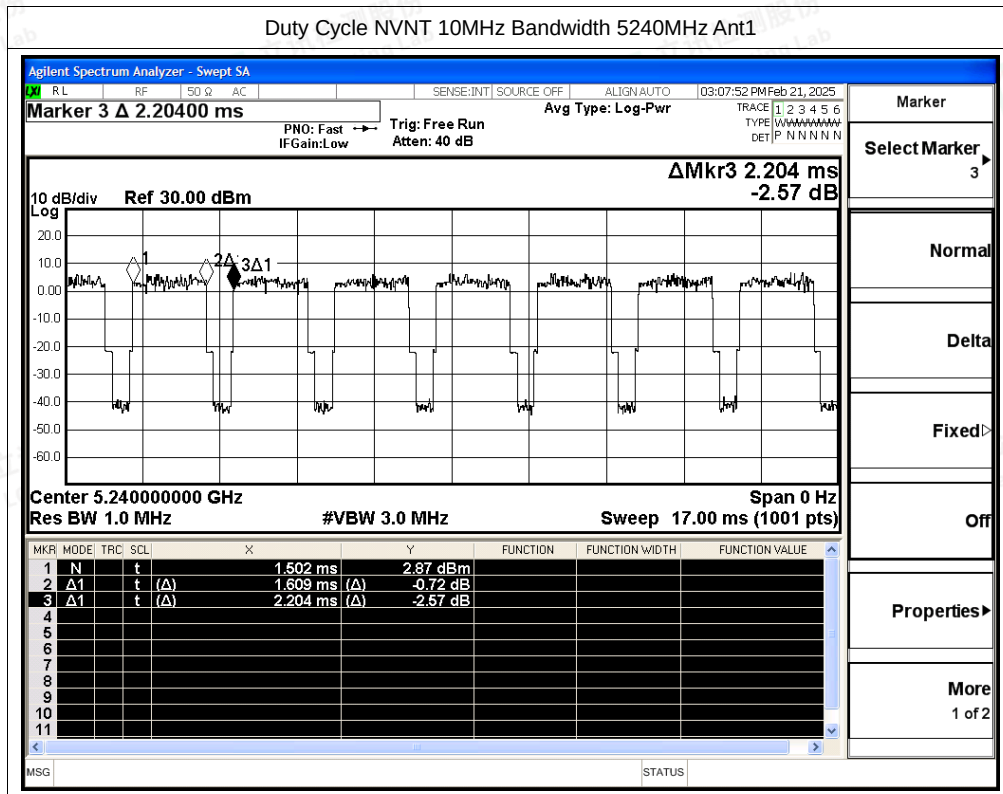


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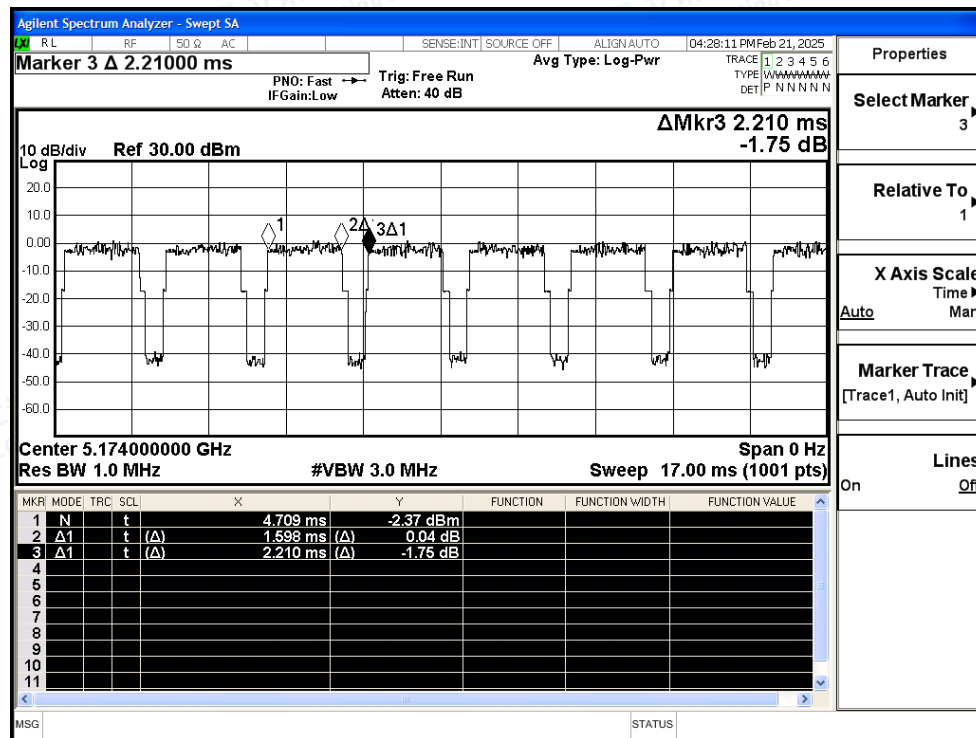
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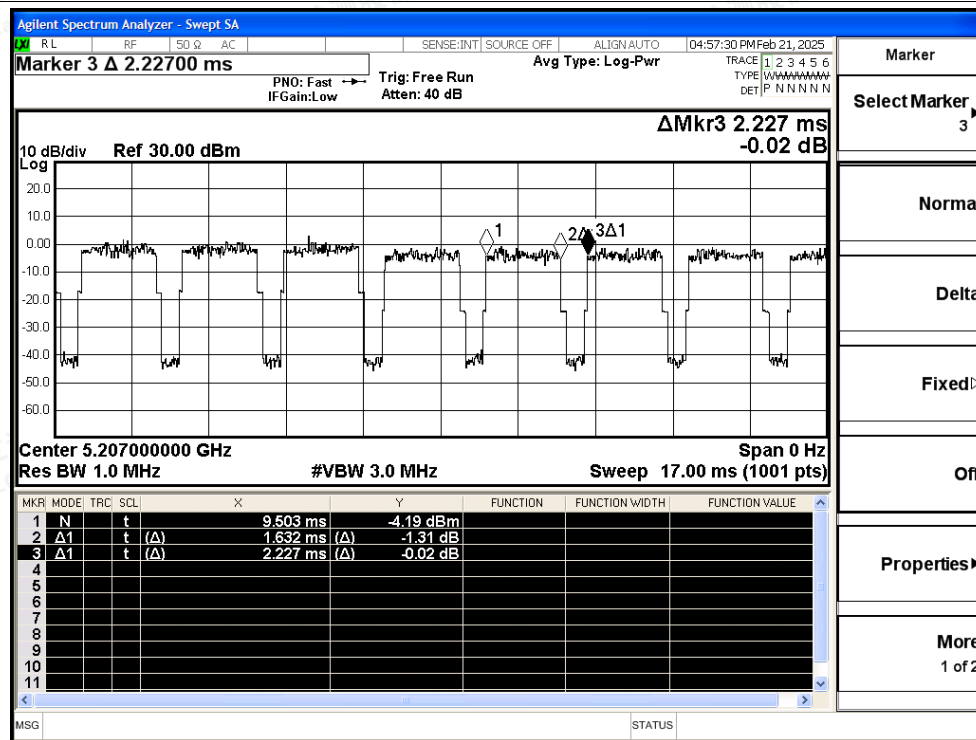


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5174MHz Ant1



Duty Cycle NVNT 20MHz Bandwidth 5207MHz Ant1

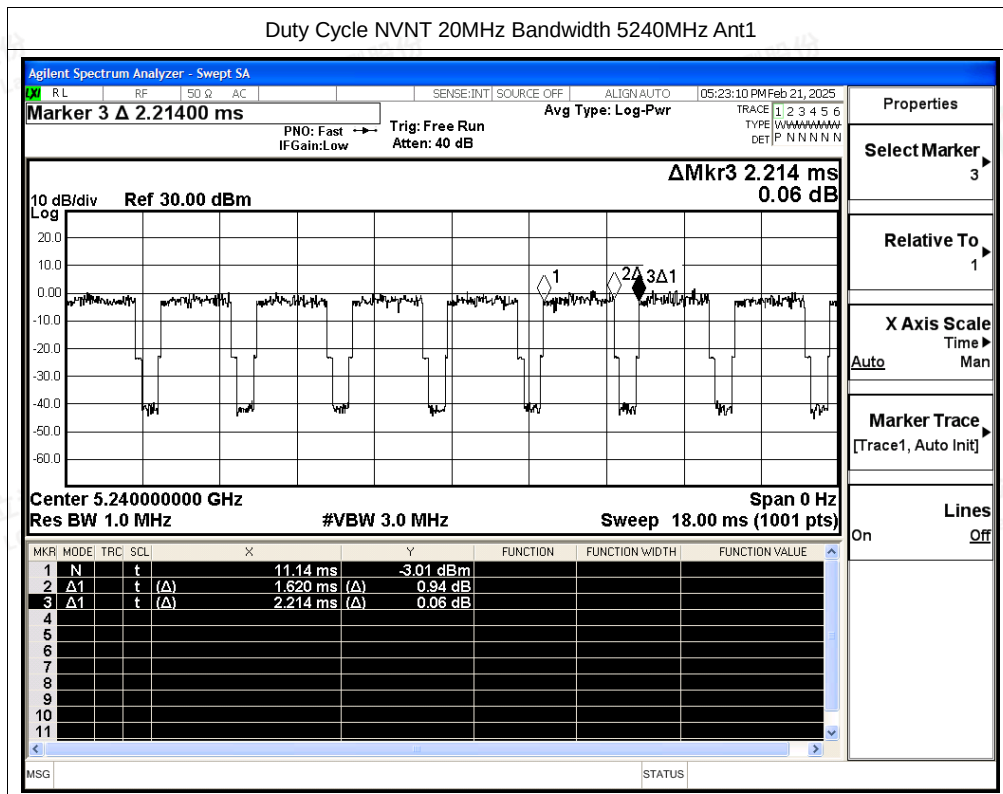


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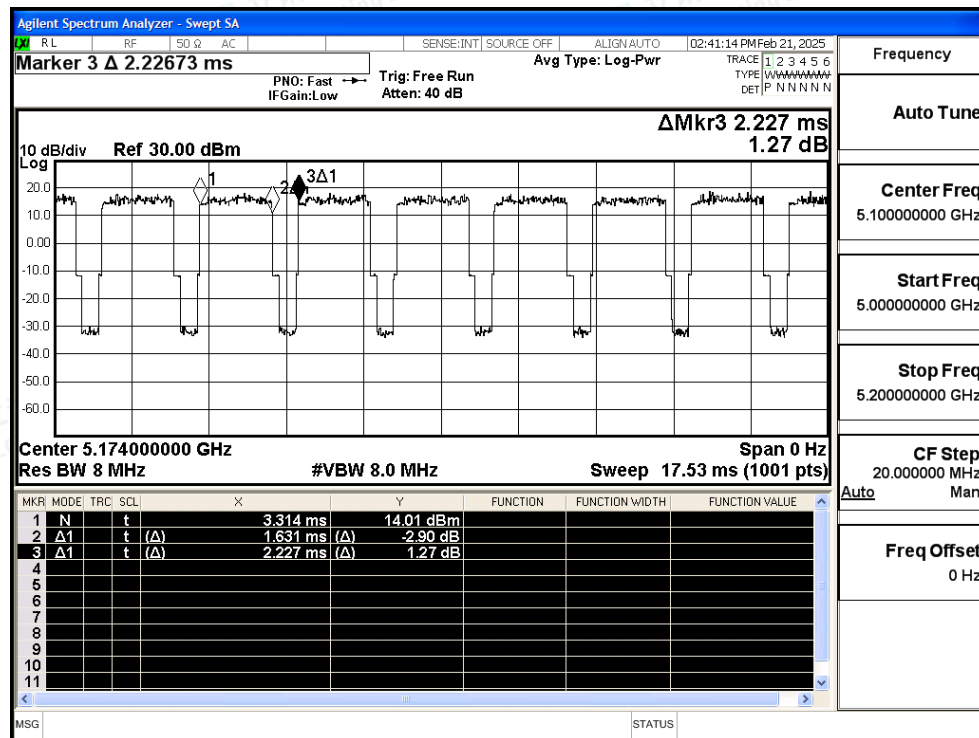
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	10MHz Bandwidth	5174	Ant2	73.24	1.35	0.61
NVNT	10MHz Bandwidth	5207	Ant2	73.28	1.35	0.61
NVNT	10MHz Bandwidth	5240	Ant2	72.45	1.4	0.62
NVNT	20MHz Bandwidth	5174	Ant2	73.28	1.35	0.61
NVNT	20MHz Bandwidth	5207	Ant2	72.51	1.40	0.62
NVNT	20MHz Bandwidth	5240	Ant2	73.17	1.36	0.62



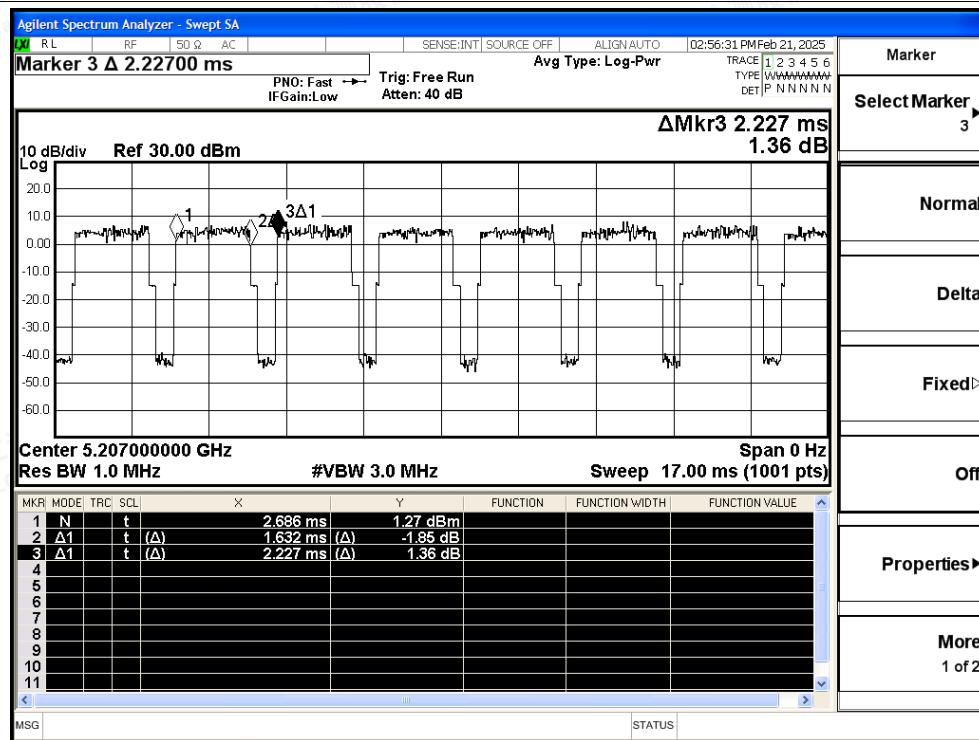


Test Graphs

Duty Cycle NVNT 10MHz Bandwidth 5174MHz Ant2



Duty Cycle NVNT 10MHz Bandwidth 5207MHz Ant2

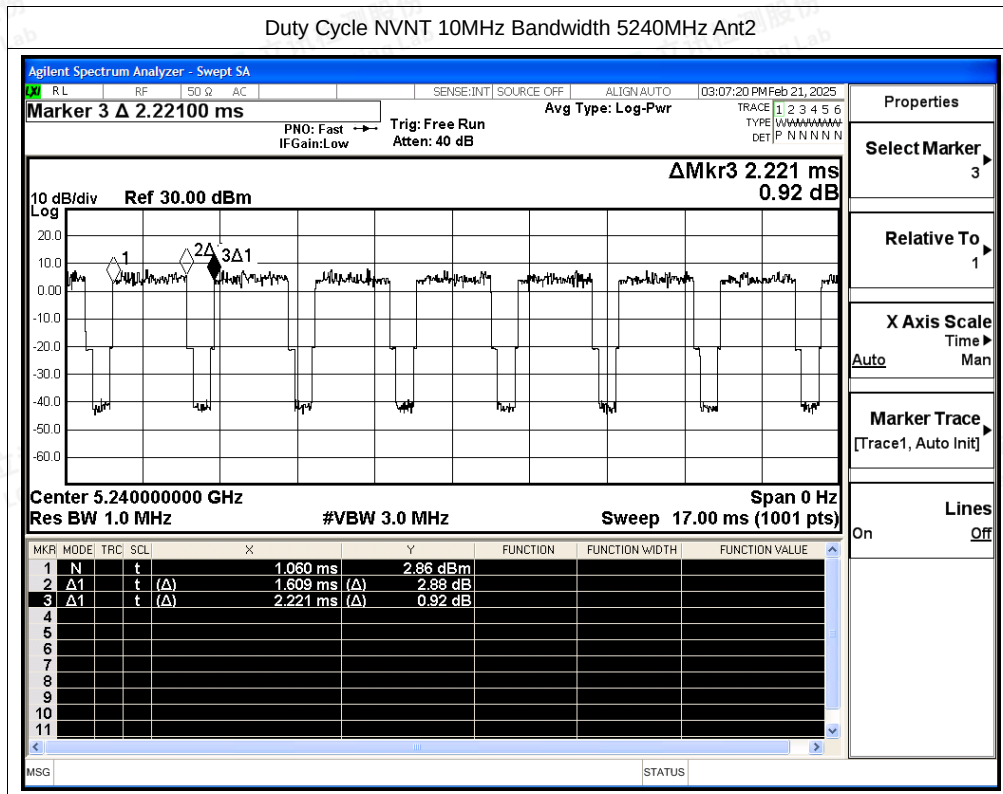


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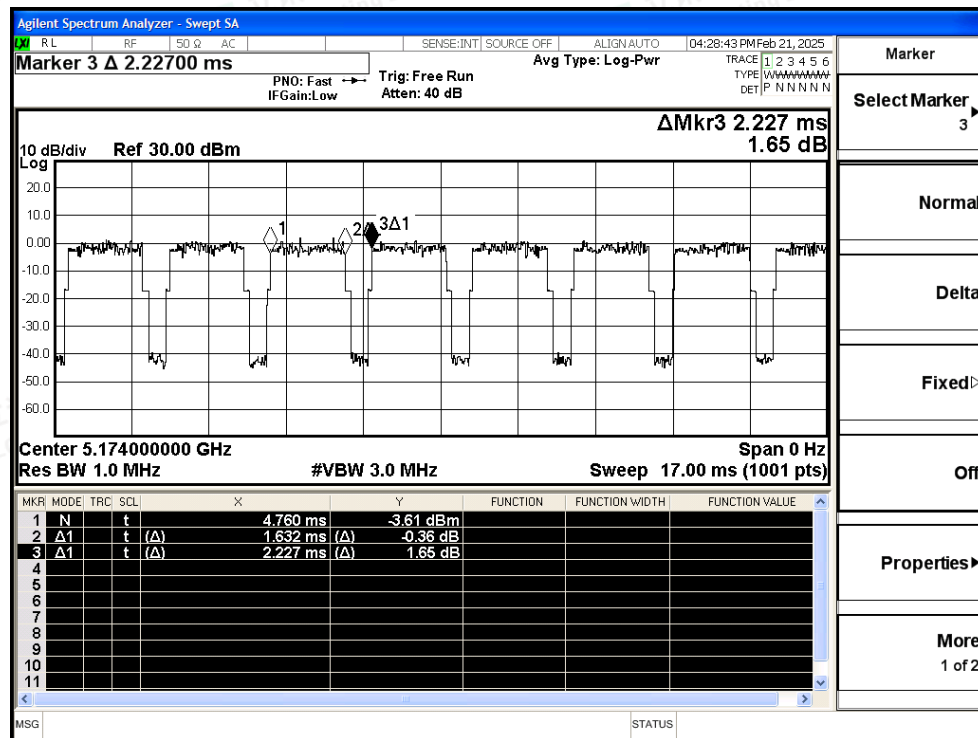
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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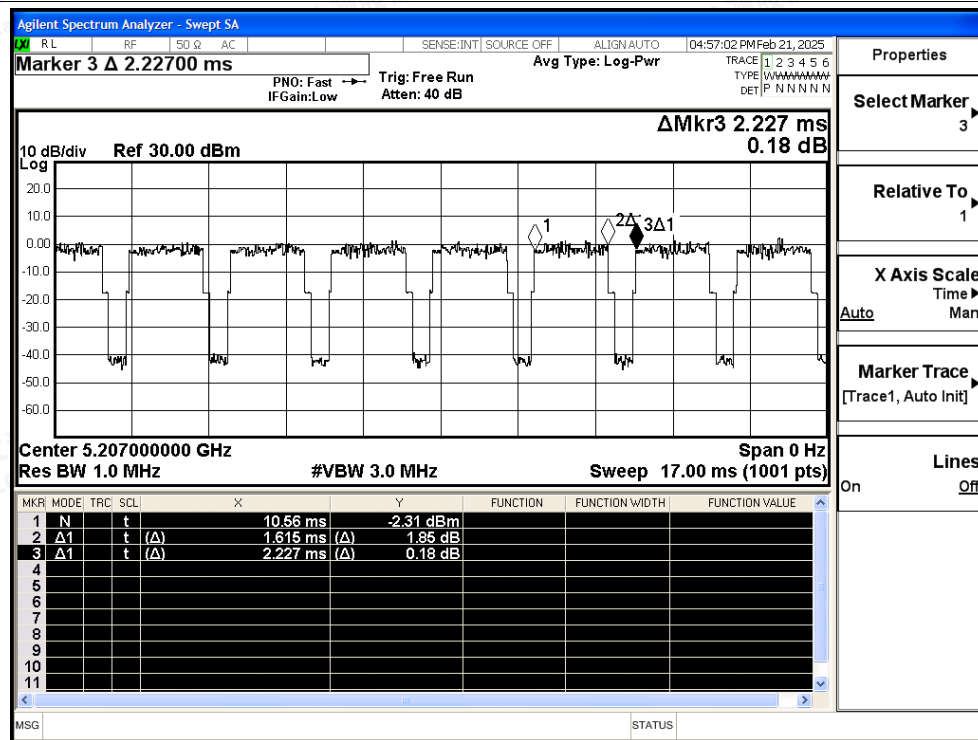


Test Graphs

Duty Cycle NVNT 20MHz Bandwidth 5174MHz Ant2



Duty Cycle NVNT 20MHz Bandwidth 5207MHz Ant2

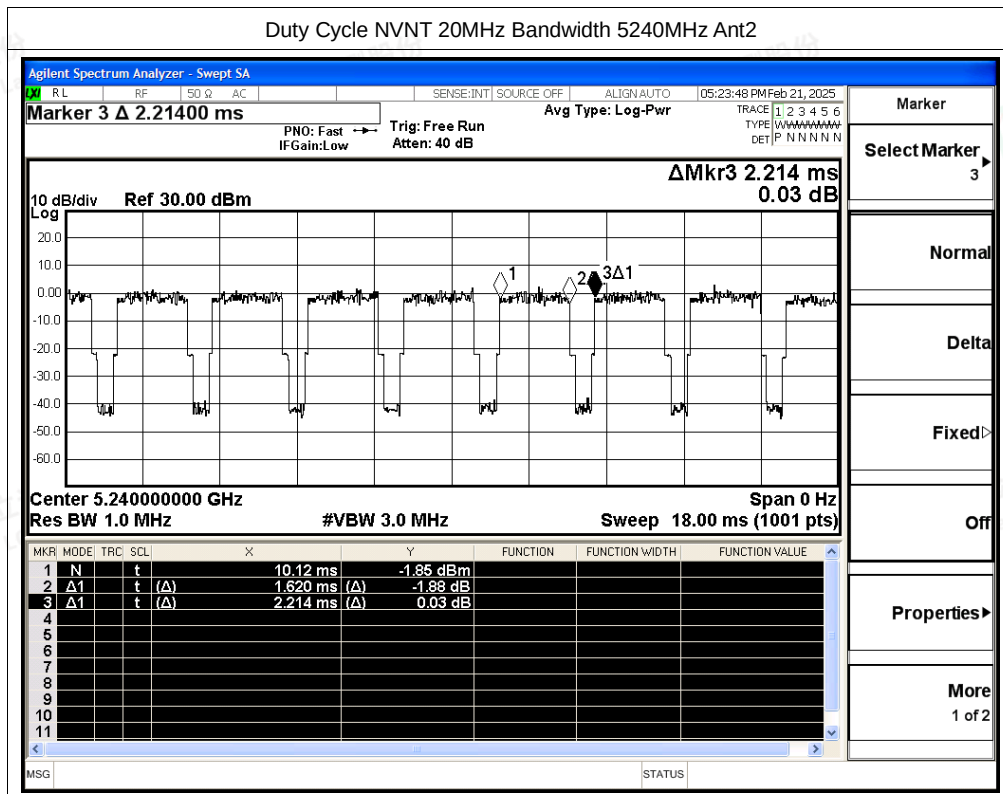


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