



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Handheld Controller

Test Model: iHand55

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu <i>Nick Peng</i>
Supervised by:	Ling Zhu <i>Ling Zhu</i>



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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	22.182	0.5	Pass
NVNT	a	5200	Ant1	29.068	0.5	Pass
NVNT	a	5240	Ant1	21.686	0.5	Pass
NVNT	n20	5180	Ant1	23.541	0.5	Pass
NVNT	n20	5200	Ant1	21.819	0.5	Pass
NVNT	n20	5240	Ant1	25.337	0.5	Pass
NVNT	n40	5190	Ant1	39.573	0.5	Pass
NVNT	n40	5230	Ant1	39.826	0.5	Pass
NVNT	ac20	5180	Ant1	21.913	0.5	Pass
NVNT	ac20	5200	Ant1	24.703	0.5	Pass
NVNT	ac20	5240	Ant1	27.351	0.5	Pass
NVNT	ac40	5190	Ant1	39.548	0.5	Pass
NVNT	ac40	5230	Ant1	39.563	0.5	Pass
NVNT	ac80	5210	Ant1	79.521	0.5	Pass



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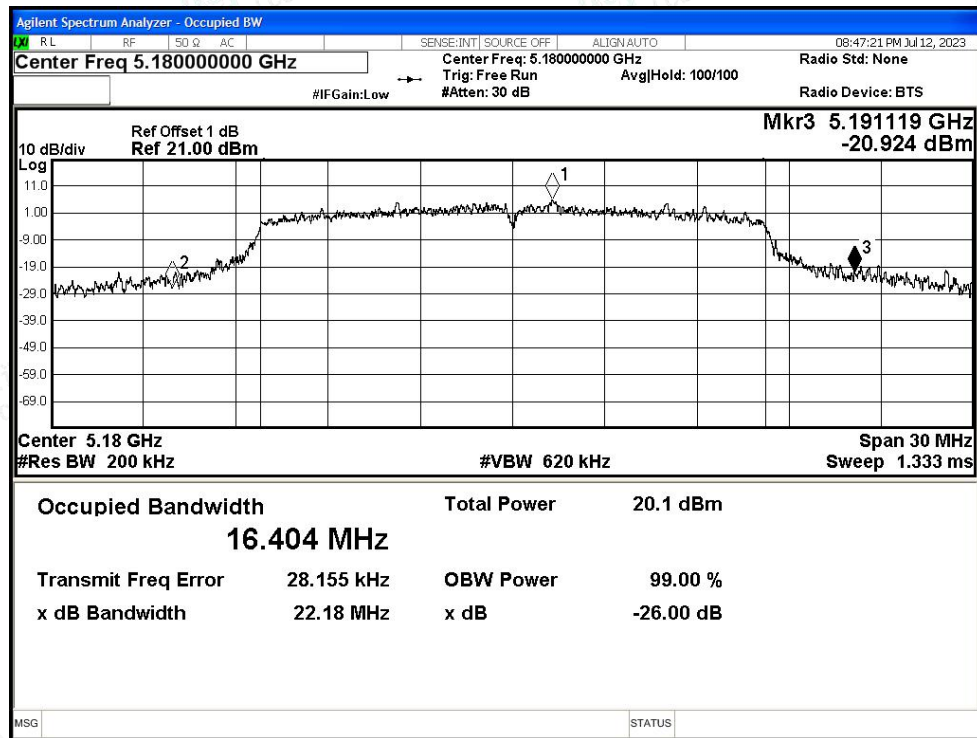
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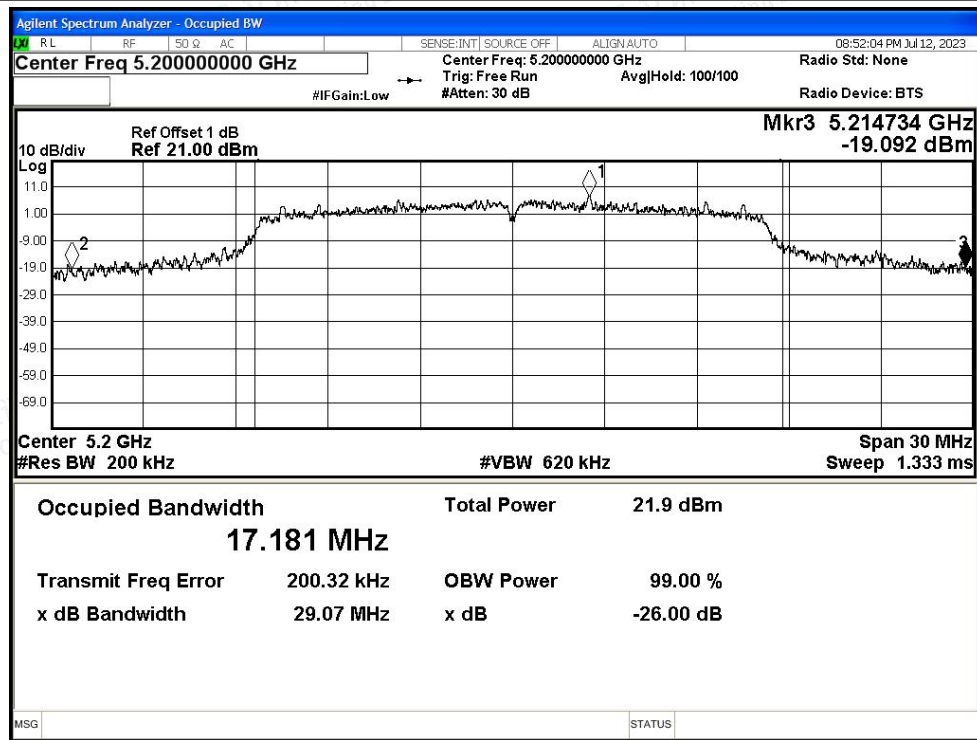


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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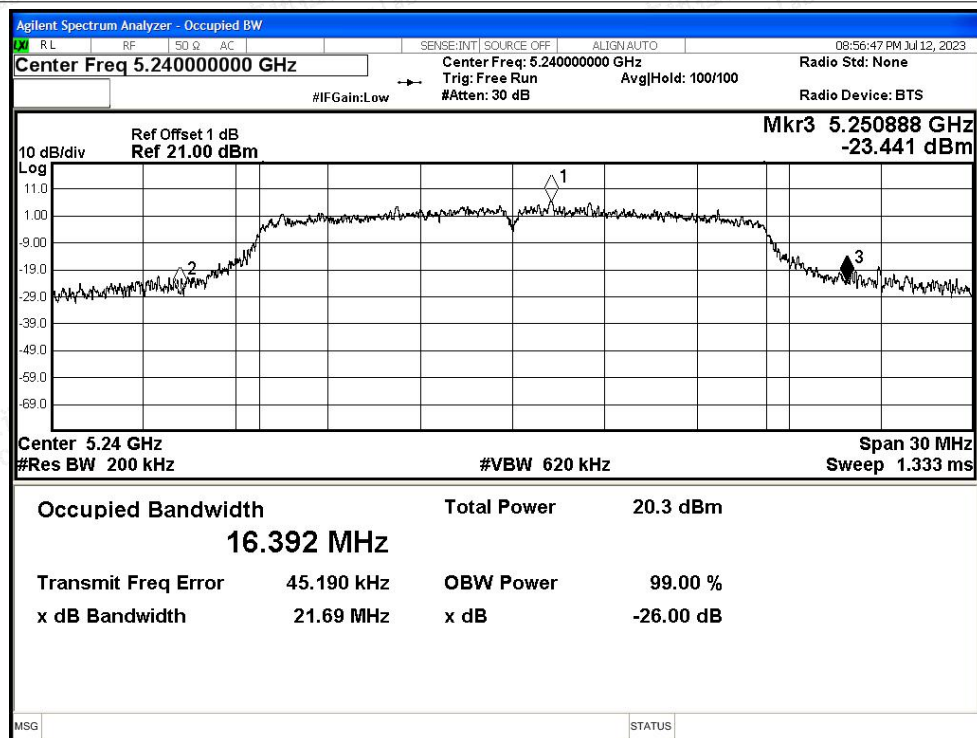
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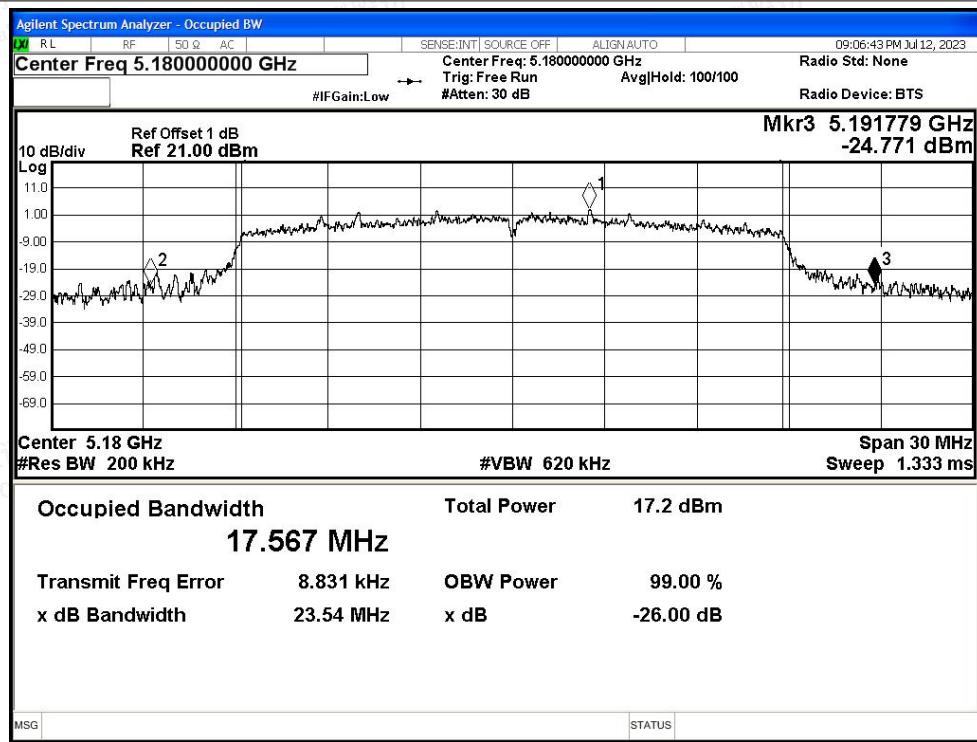
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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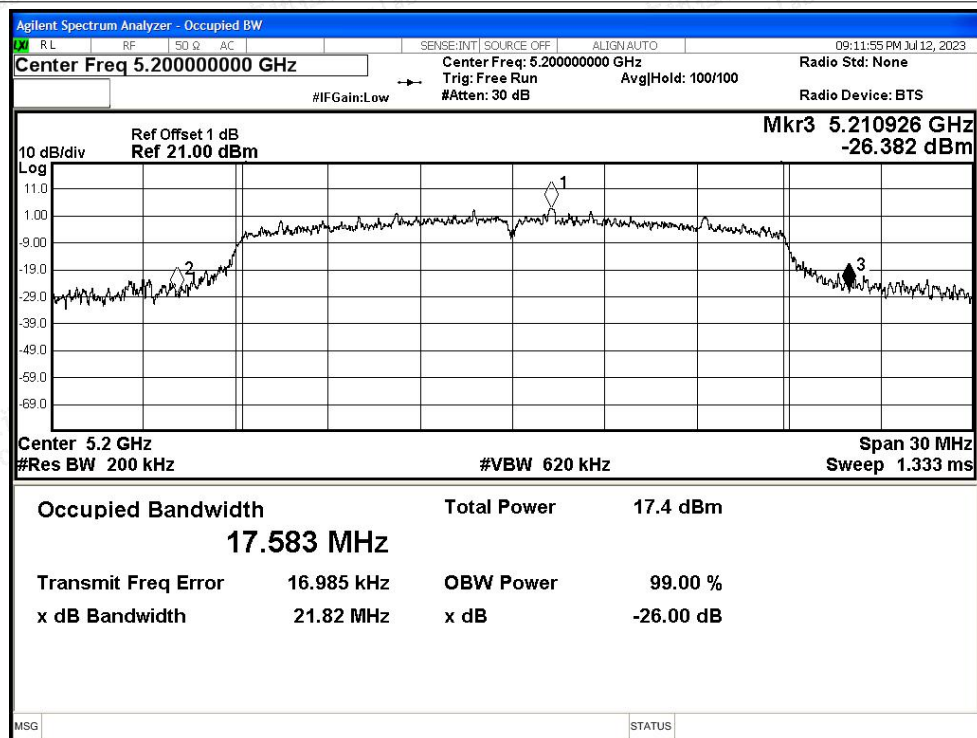
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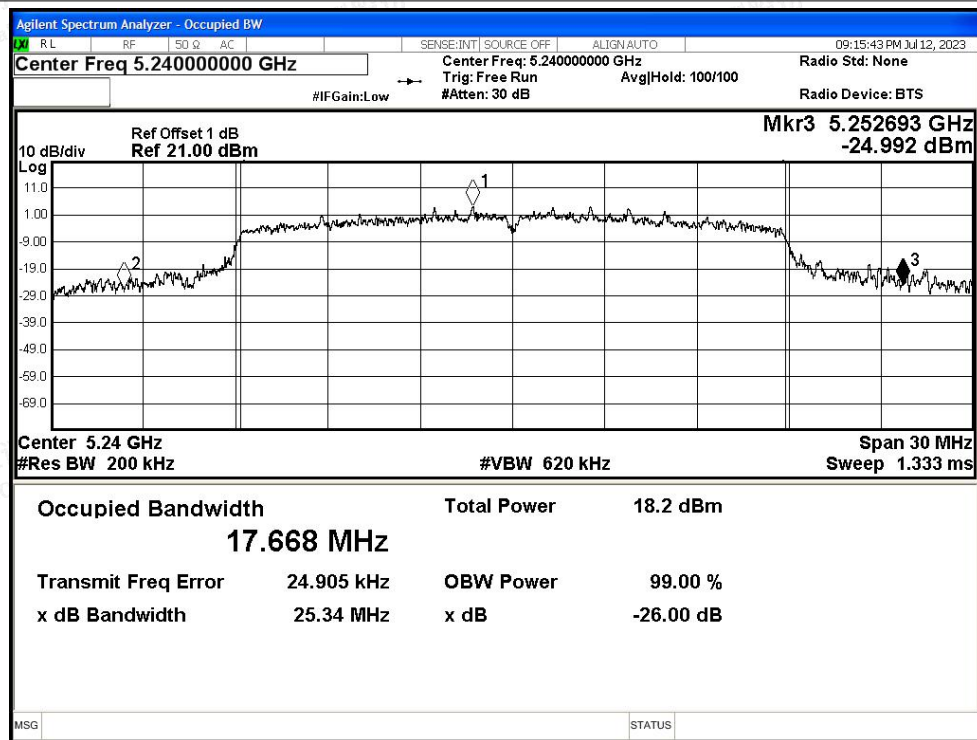
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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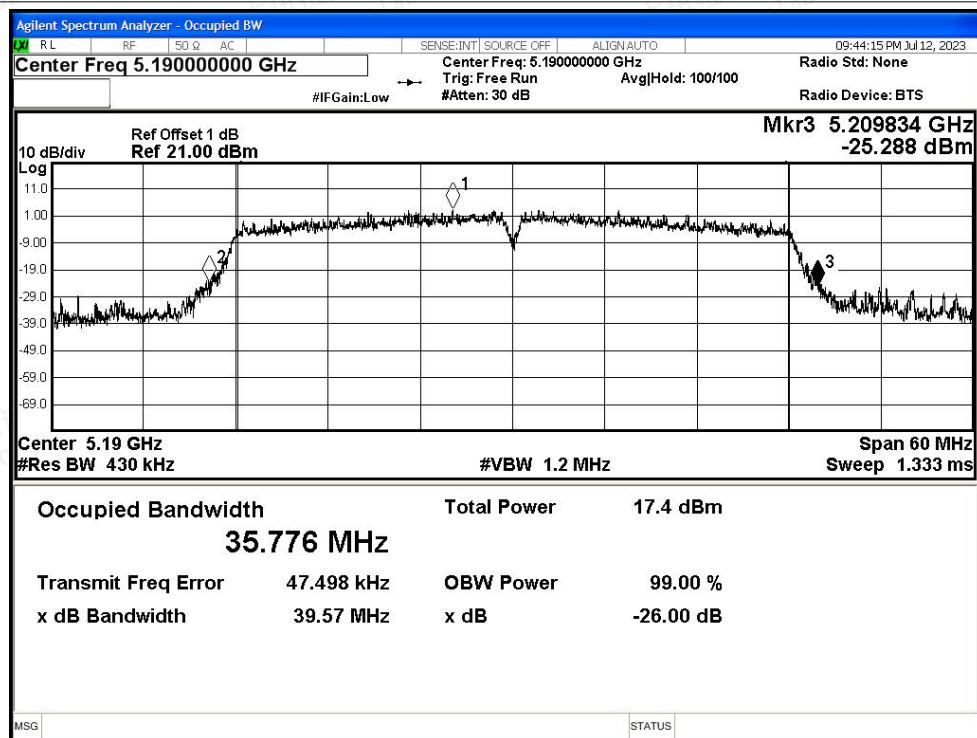
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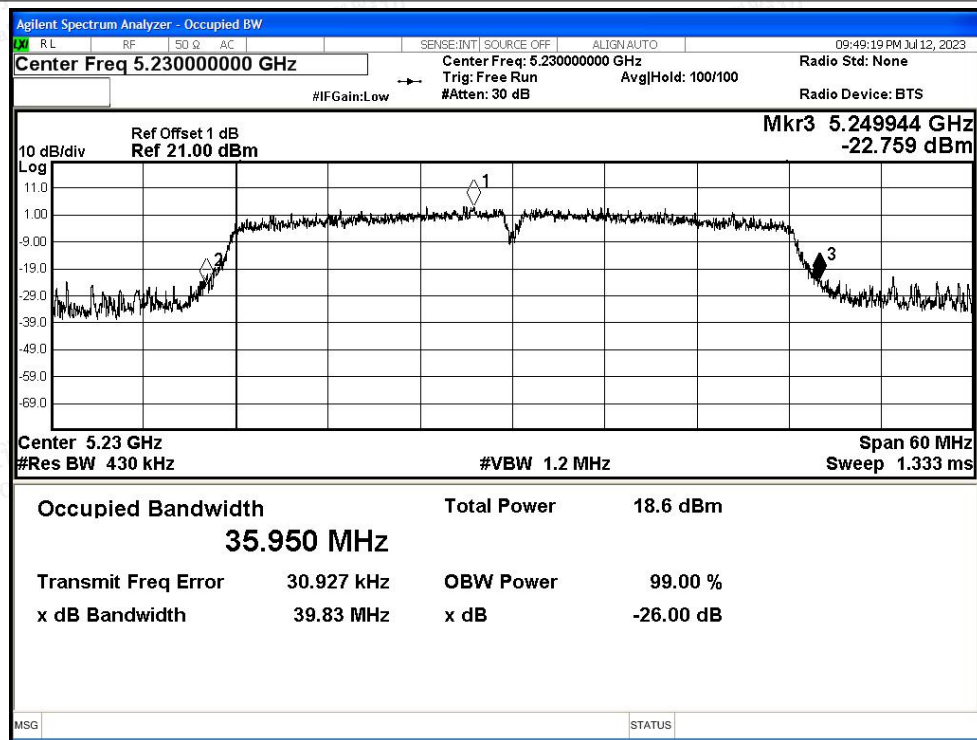
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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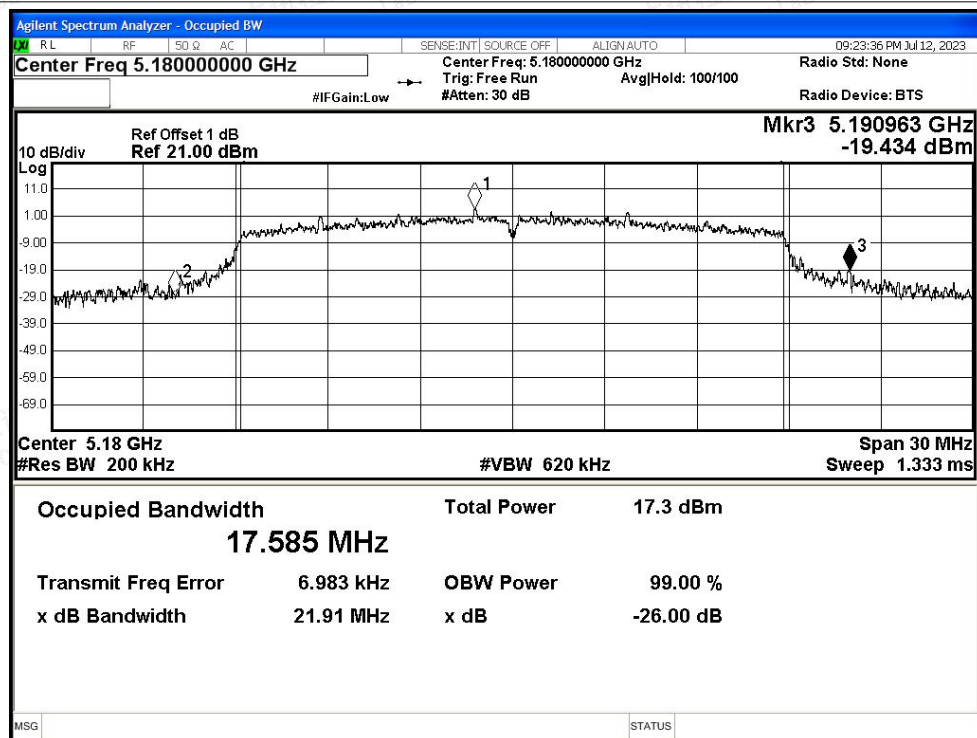
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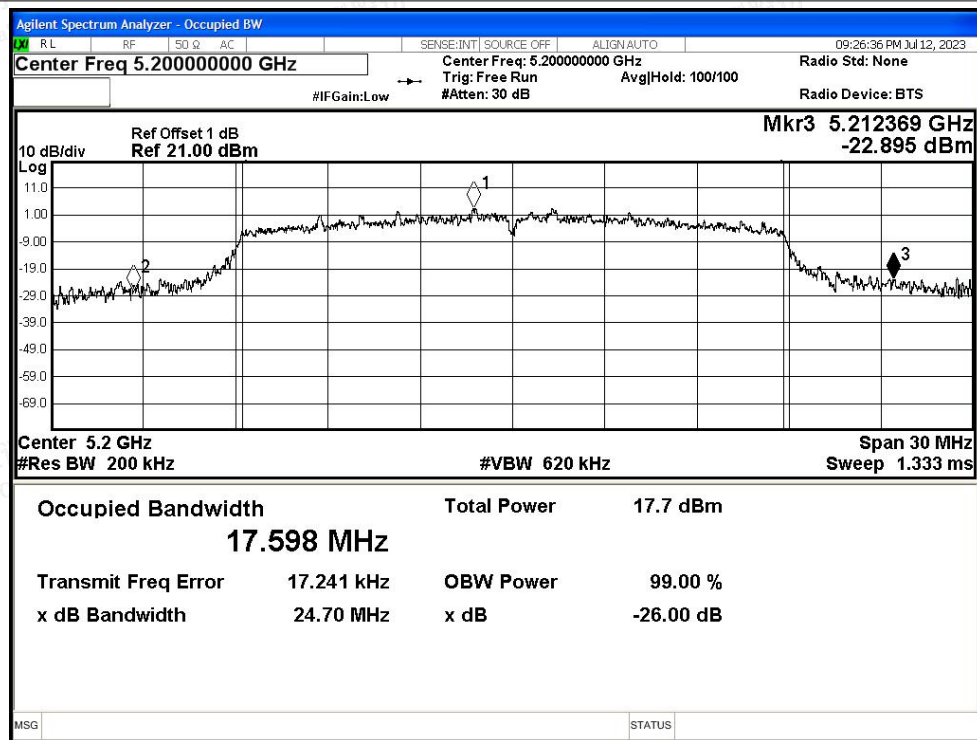
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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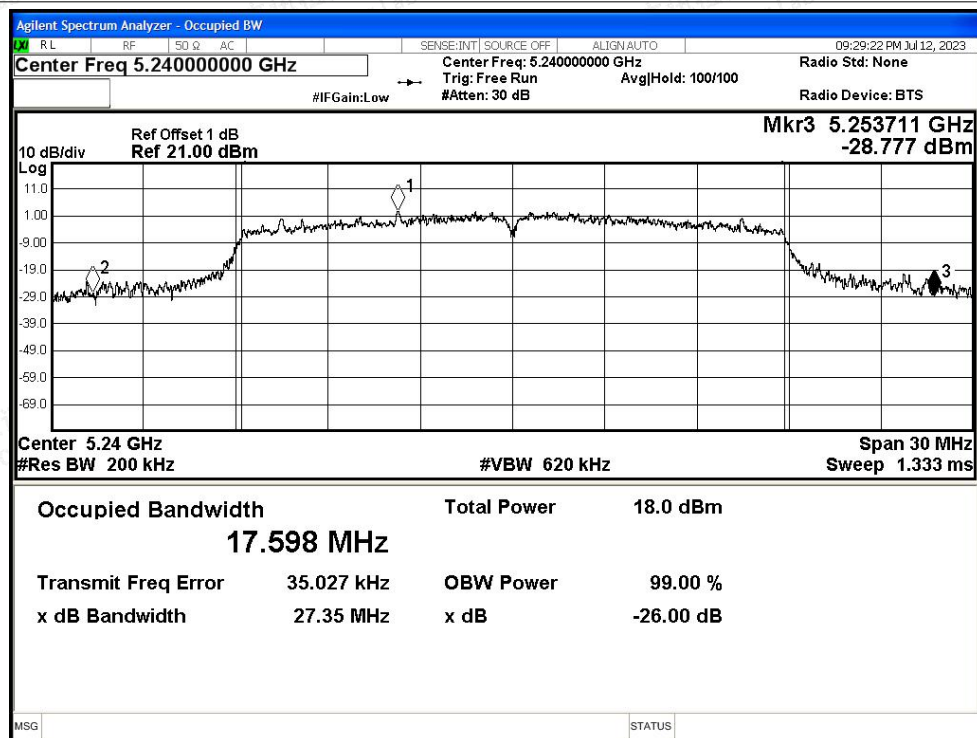
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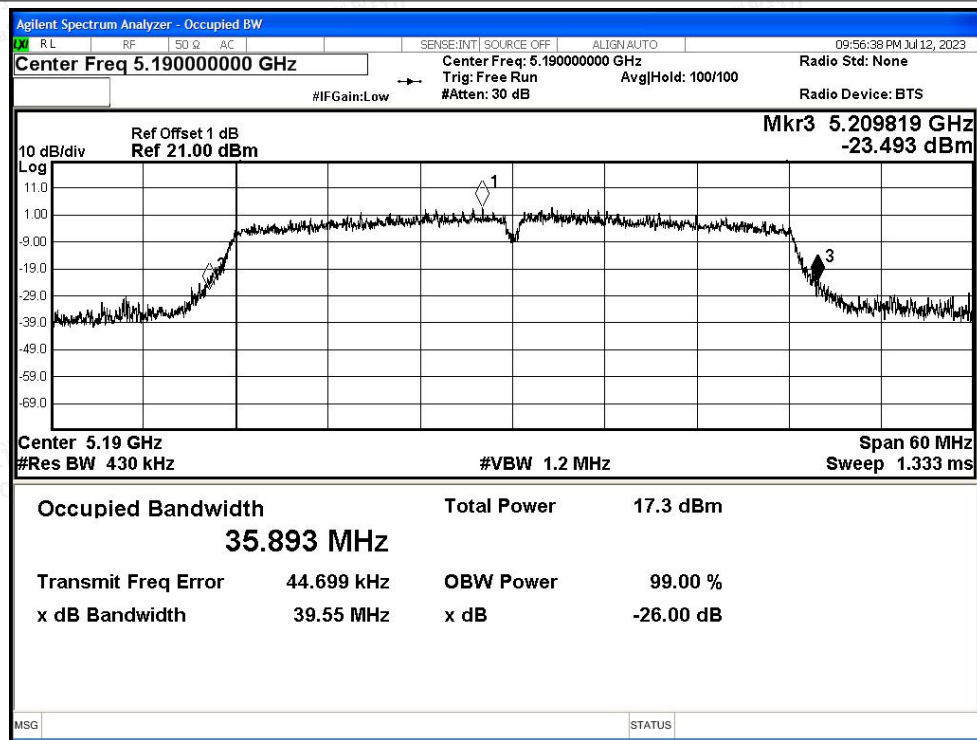
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

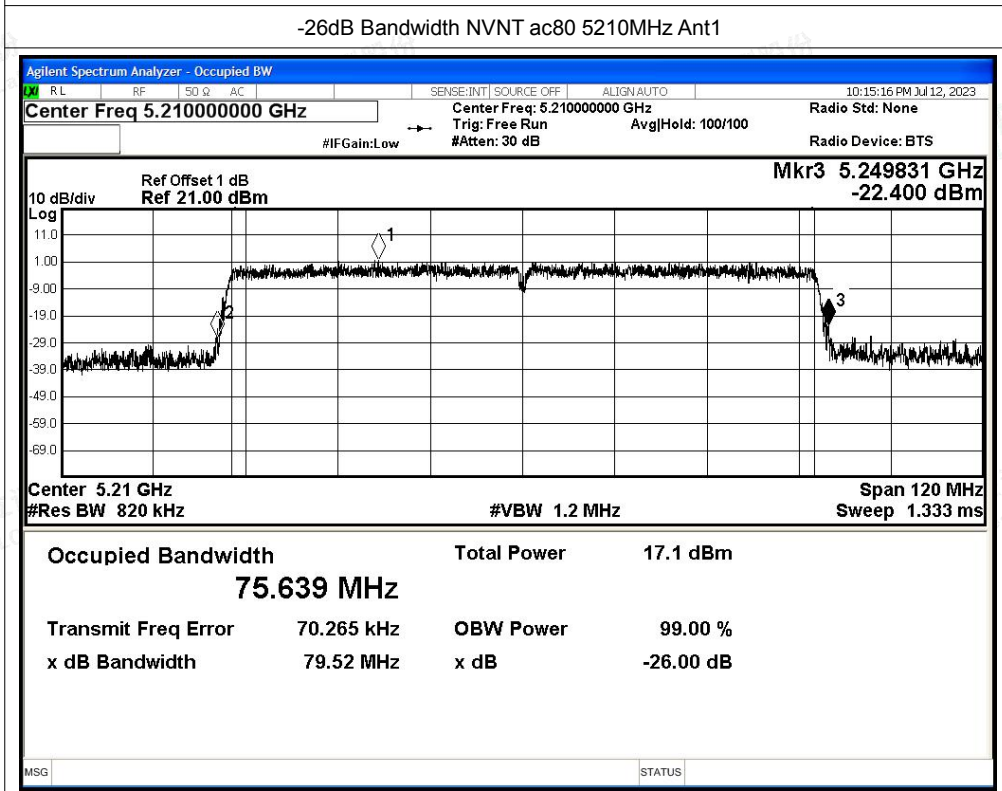
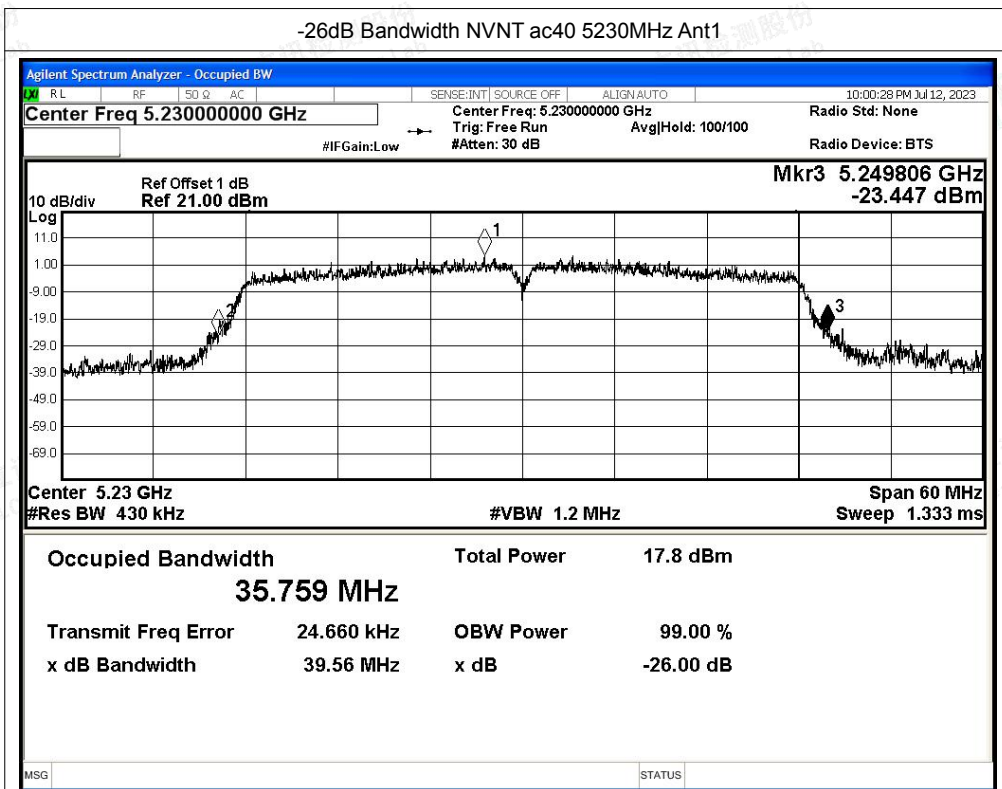


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.66	2.41	13.07	24	Pass
NVNT	a	5200	Ant1	10.01	2.41	12.42	24	Pass
NVNT	a	5240	Ant1	10.88	2.34	13.22	24	Pass
NVNT	n20	5180	Ant1	9.72	2.61	12.33	24	Pass
NVNT	n20	5200	Ant1	9.38	2.61	11.99	24	Pass
NVNT	n20	5240	Ant1	10.29	2.47	12.76	24	Pass
NVNT	n40	5190	Ant1	7.84	4.04	11.88	24	Pass
NVNT	n40	5230	Ant1	8.56	4.25	12.81	24	Pass
NVNT	ac20	5180	Ant1	8.59	2.44	11.03	24	Pass
NVNT	ac20	5200	Ant1	10.19	2.58	12.77	24	Pass
NVNT	ac20	5240	Ant1	10.71	2.56	13.27	24	Pass
NVNT	ac40	5190	Ant1	8.25	4.13	12.38	24	Pass
NVNT	ac40	5230	Ant1	8.56	4	12.56	24	Pass
NVNT	ac80	5210	Ant1	5.84	6.26	12.1	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-24.63	2.41	-22.22	11	Pass
NVNT	a	5200	Ant1	-19.81	2.33	-17.48	11	Pass
NVNT	a	5240	Ant1	-24.03	2.34	-21.69	11	Pass
NVNT	n20	5180	Ant1	-23.16	2.61	-20.55	11	Pass
NVNT	n20	5200	Ant1	-24.32	2.61	-21.71	11	Pass
NVNT	n20	5240	Ant1	-20.3	2.47	-17.83	11	Pass
NVNT	n40	5190	Ant1	-33.21	4.04	-29.17	11	Pass
NVNT	n40	5230	Ant1	-34.64	4.25	-30.39	11	Pass
NVNT	ac20	5180	Ant1	-30.71	2.44	-28.27	11	Pass
NVNT	ac20	5200	Ant1	-20.87	2.58	-18.29	11	Pass
NVNT	ac20	5240	Ant1	-21.67	2.56	-19.11	11	Pass
NVNT	ac40	5190	Ant1	-35.07	4.13	-30.94	11	Pass
NVNT	ac40	5230	Ant1	-35.8	4	-31.8	11	Pass
NVNT	ac80	5210	Ant1	-43.17	6.26	-36.91	11	Pass



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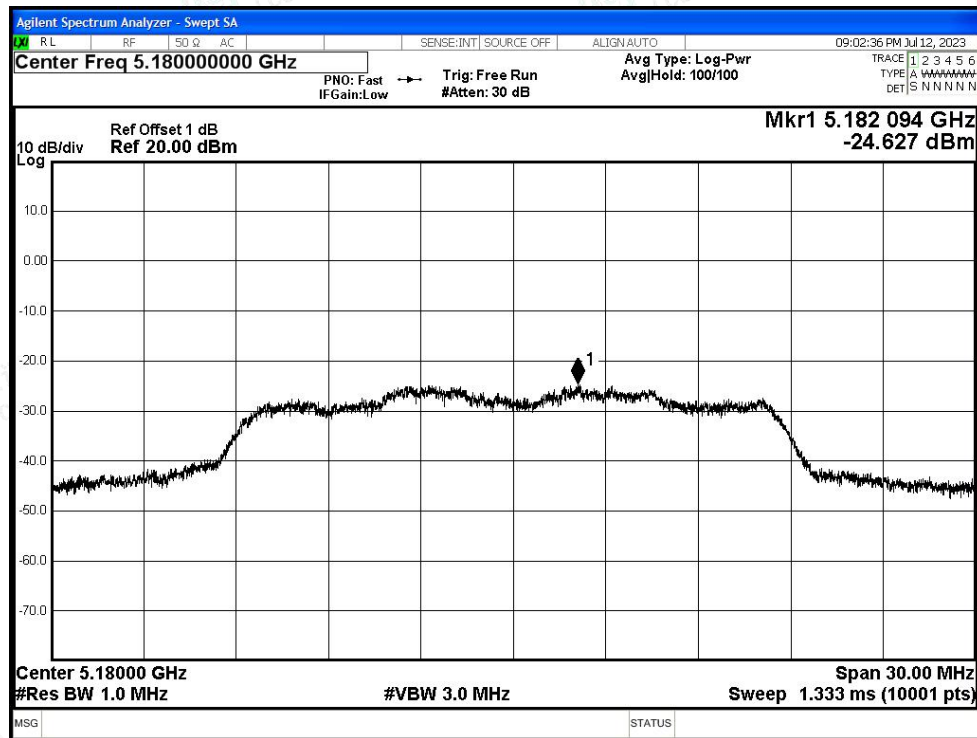
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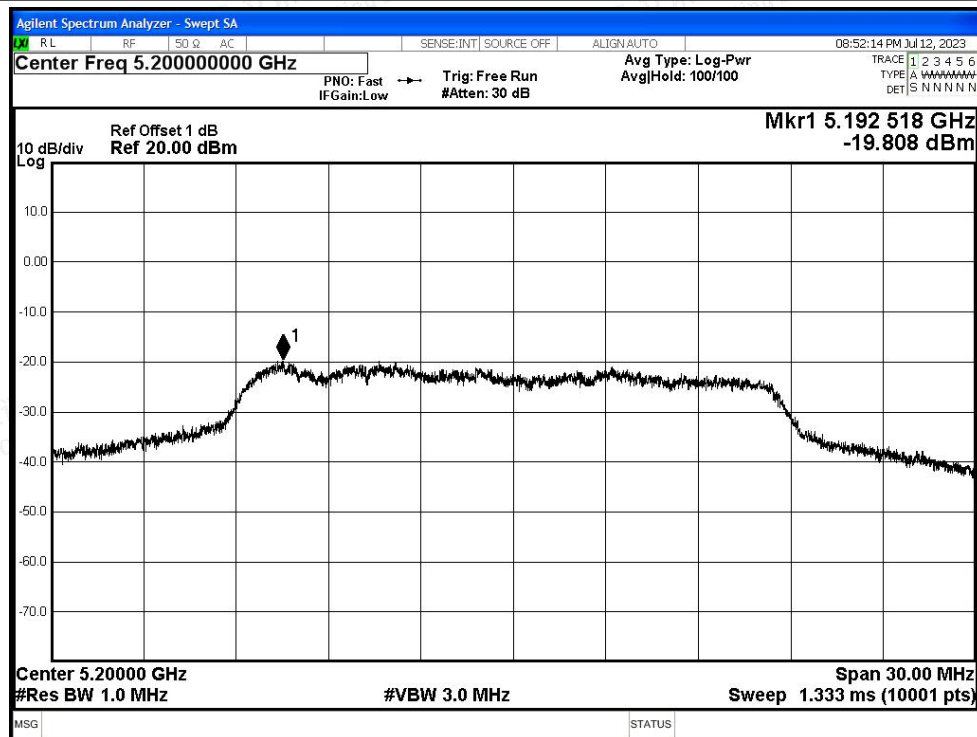


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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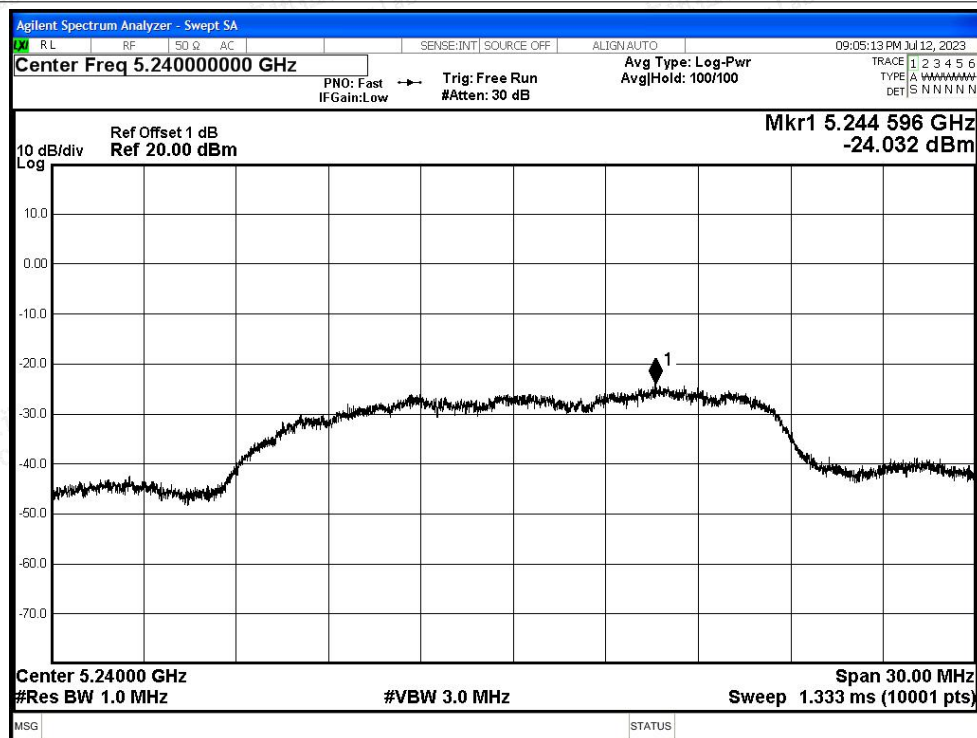
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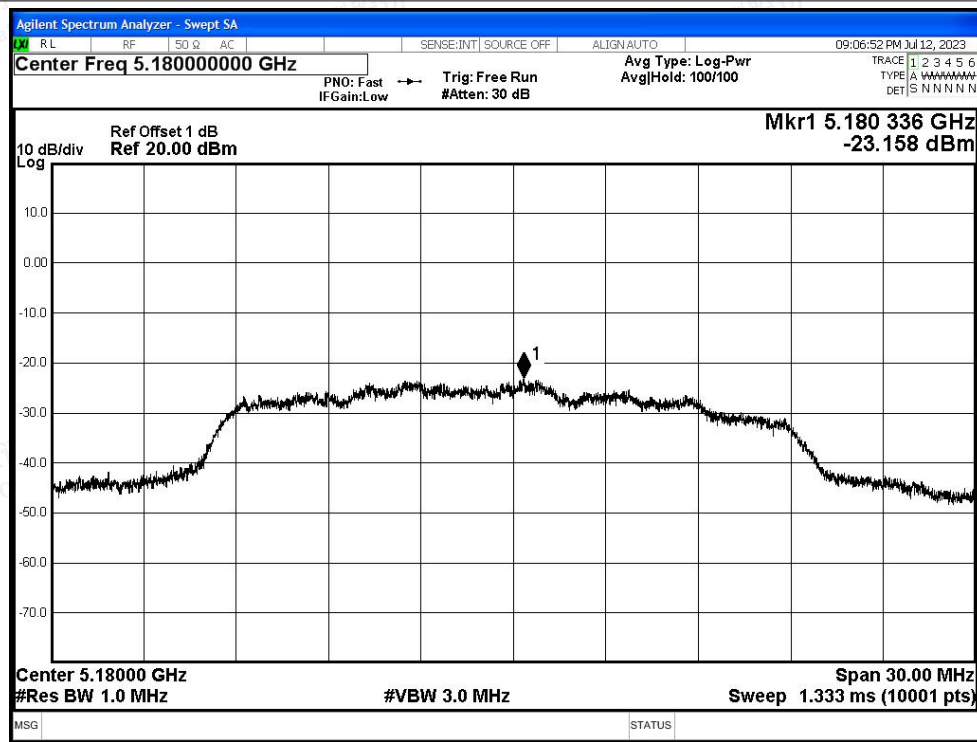
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PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

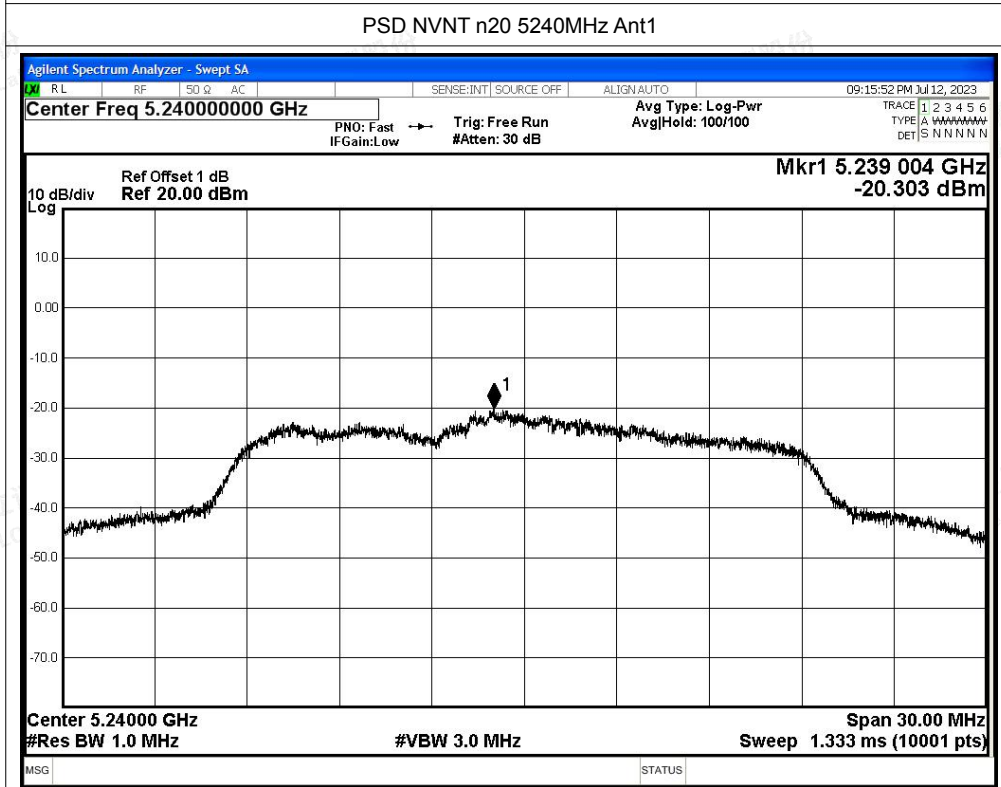
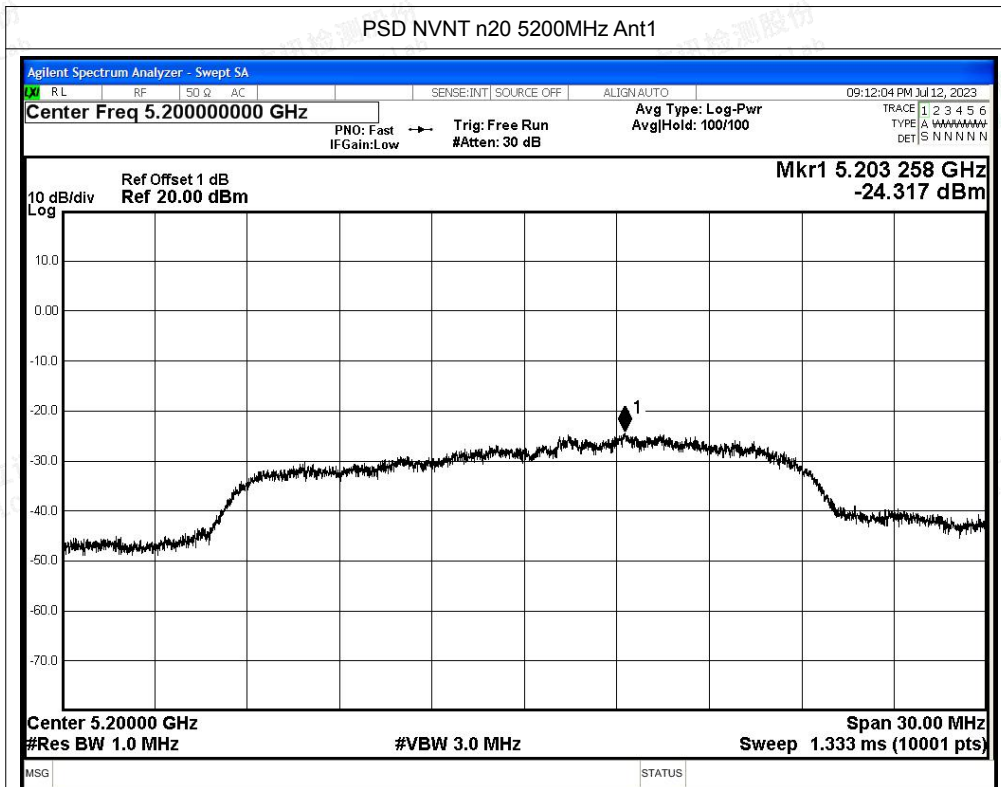


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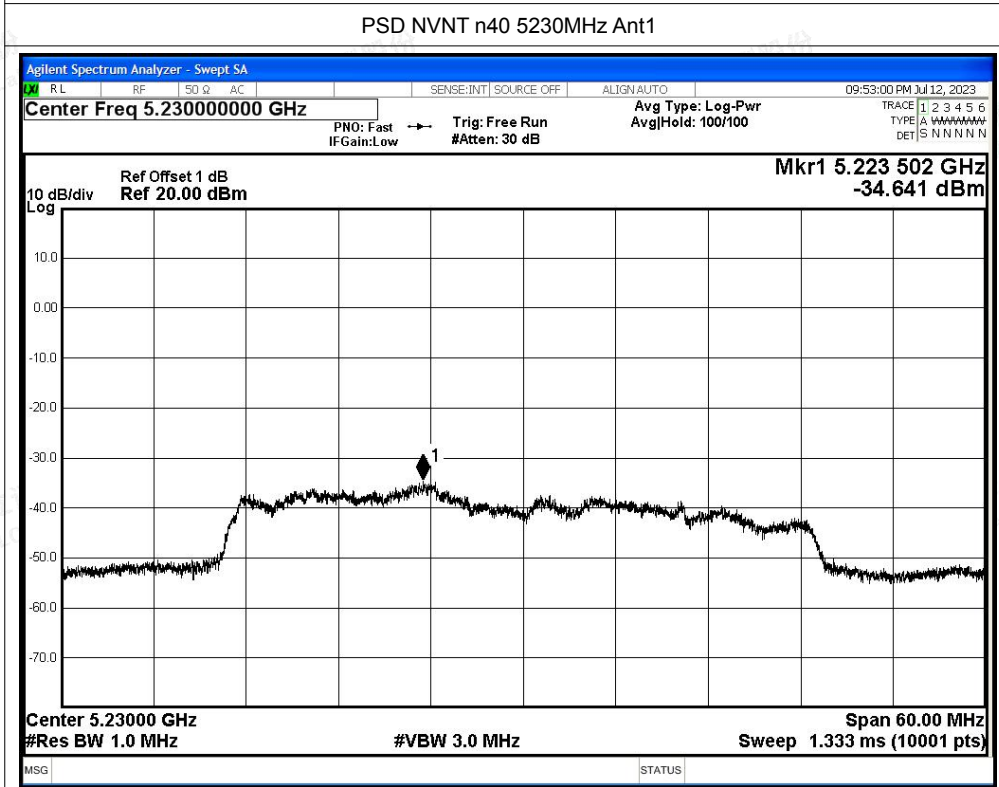
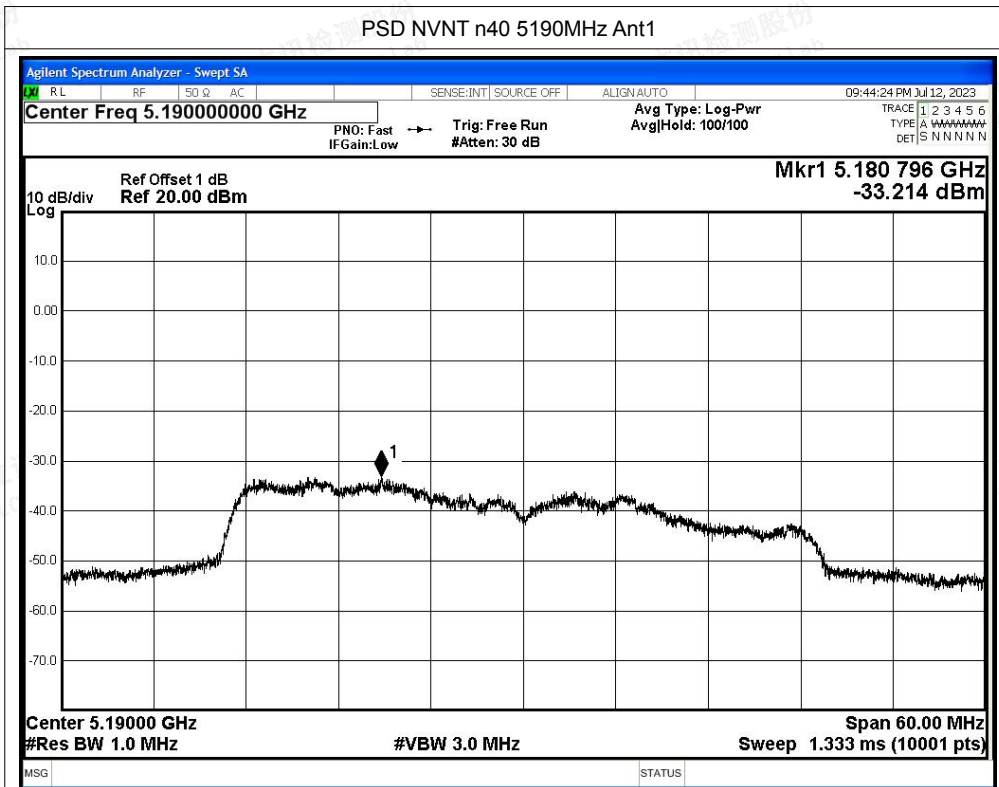


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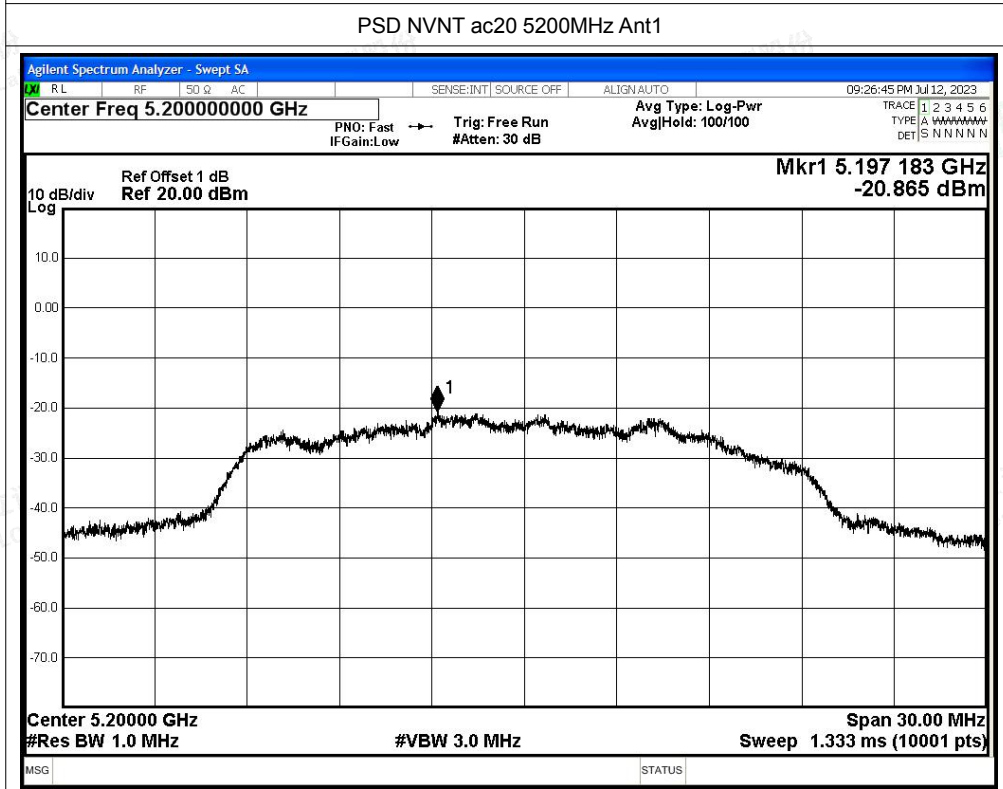
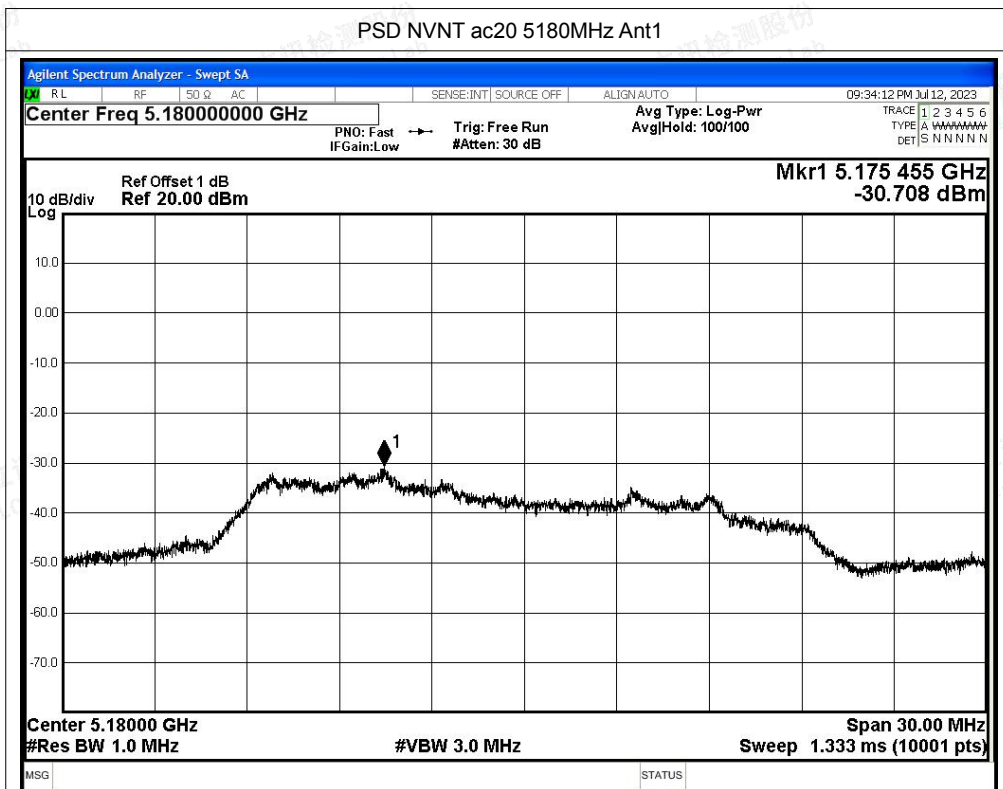


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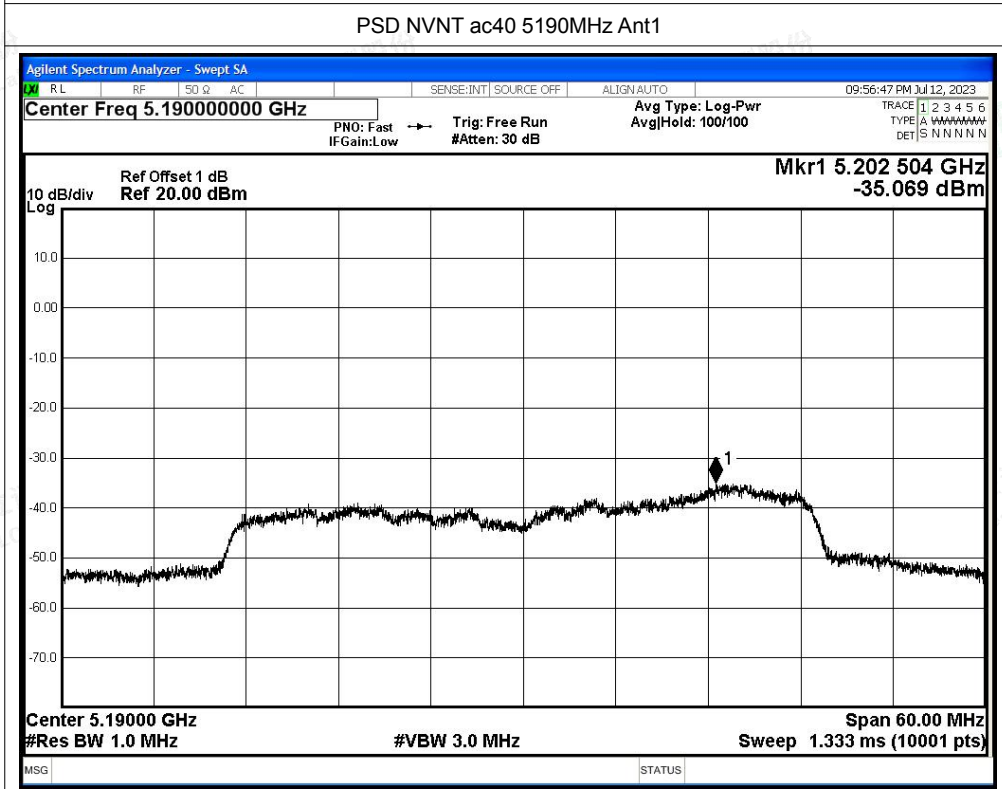
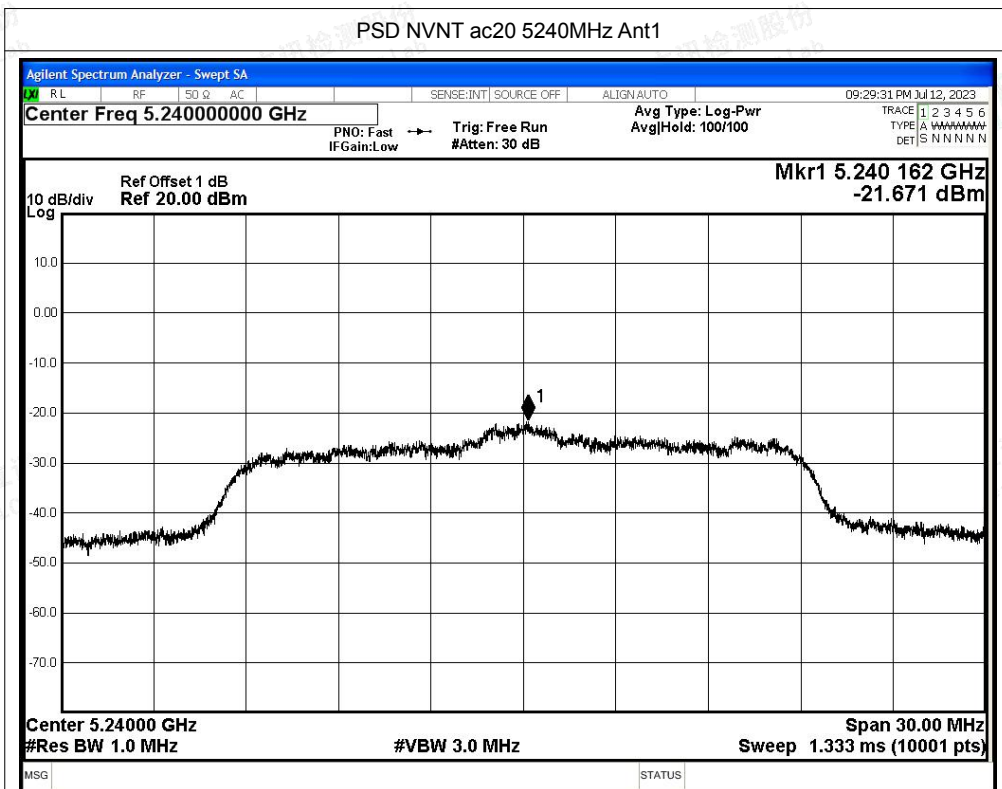


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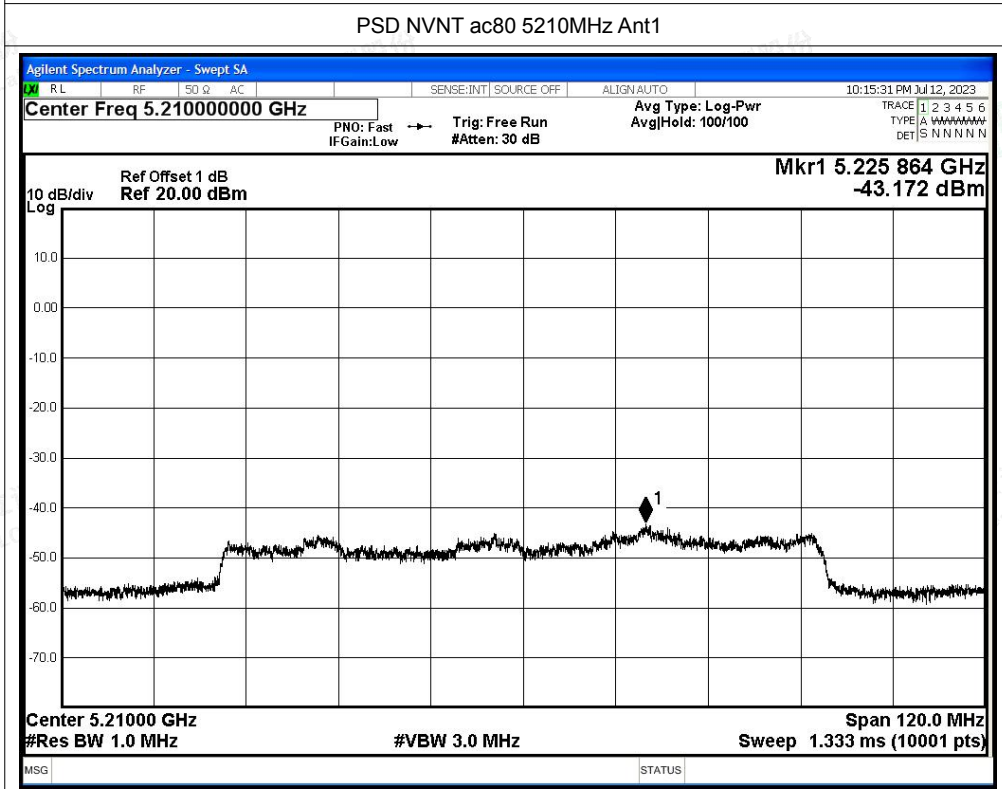
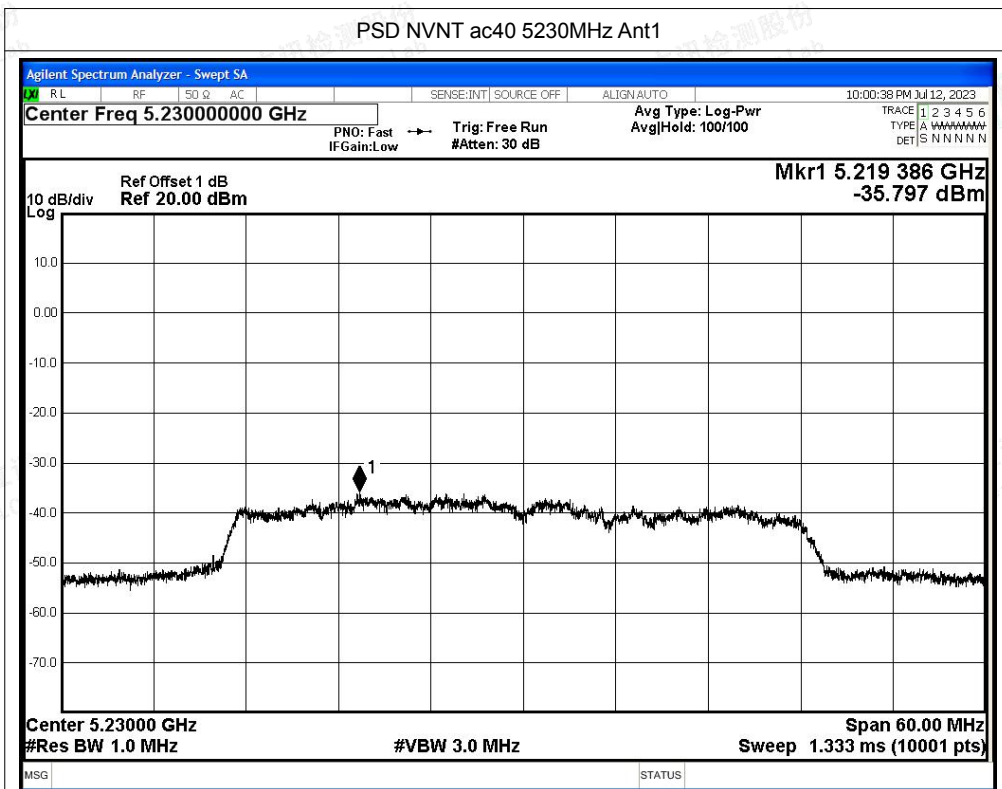


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D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-50.37	2	46.86	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.92	2	37.31	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-37.63	2	59.6	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-49.87	2	47.36	Average	54	Pass
NVNT	a	5180	Ant1	5150	-38.41	2	58.82	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-49.52	2	47.71	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.23	2	50	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.31	2	39.92	Average	54	Pass
NVNT	a	5240	Ant1	5357.04	-45.47	2	51.76	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.08	-57.31	2	39.92	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.51	2	48.72	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.57	2	38.66	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.09	2	48.14	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.63	2	37.6	Average	54	Pass
NVNT	n20	5180	Ant1	5148.2	-35.94	2	61.29	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-50.52	2	46.71	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-32.34	2	64.89	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-49.94	2	47.29	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.29	2	47.94	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-58.21	2	39.02	Average	54	Pass
NVNT	n20	5240	Ant1	5353.68	-45.71	2	51.52	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5352.72	-57.98	2	39.25	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.27	2	47.96	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-58.84	2	38.39	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.61	2	46.62	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.49	2	37.74	Average	54	Pass
NVNT	n40	5190	Ant1	5146.05	-35.67	2	61.56	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-46.4	2	50.83	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-36.13	2	61.1	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-46.46	2	50.77	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.88	2	47.35	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.3	2	39.93	Average	54	Pass
NVNT	n40	5230	Ant1	5433.27	-45.78	2	51.45	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5351.19	-57.14	2	40.09	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.71	2	47.52	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.47	2	38.76	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.95	2	47.28	Peak	68.2	Pass



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NVNT	ac20	5180	Ant1	4500	-59.73	2	37.5	Average	54	Pass
NVNT	ac20	5180	Ant1	5146.8	-32.17	2	65.06	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-49.57	2	47.66	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-37.27	2	59.96	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-49.46	2	47.77	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.52	2	48.71	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-58.25	2	38.98	Average	54	Pass
NVNT	ac20	5240	Ant1	5365.2	-46.66	2	50.57	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5351.04	-57.89	2	39.34	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.21	2	48.02	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.85	2	38.38	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.14	2	47.09	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.44	2	37.79	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-32.35	2	64.88	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-46.05	2	51.18	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-32.35	2	64.88	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-46.05	2	51.18	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-46.91	2	50.32	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.75	2	39.48	Average	54	Pass
NVNT	ac40	5230	Ant1	5404.65	-46.17	2	51.06	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5366.58	-57.48	2	39.75	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.13	2	48.1	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.42	2	38.81	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-50.12	2	47.11	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.39	2	40.84	Average	54	Pass
NVNT	ac80	5210	Ant1	5351.1	-44.53	2	52.7	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5355.72	-55.9	2	41.33	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.14	2	47.09	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-58.19	2	39.04	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.01	2	48.22	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-59.01	2	38.22	Average	54	Pass
NVNT	ac80	5210	Ant1	5146.22	-38.79	2	58.44	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-48.96	2	48.27	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-41.43	2	55.8	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-48.98	2	48.25	Average	54	Pass



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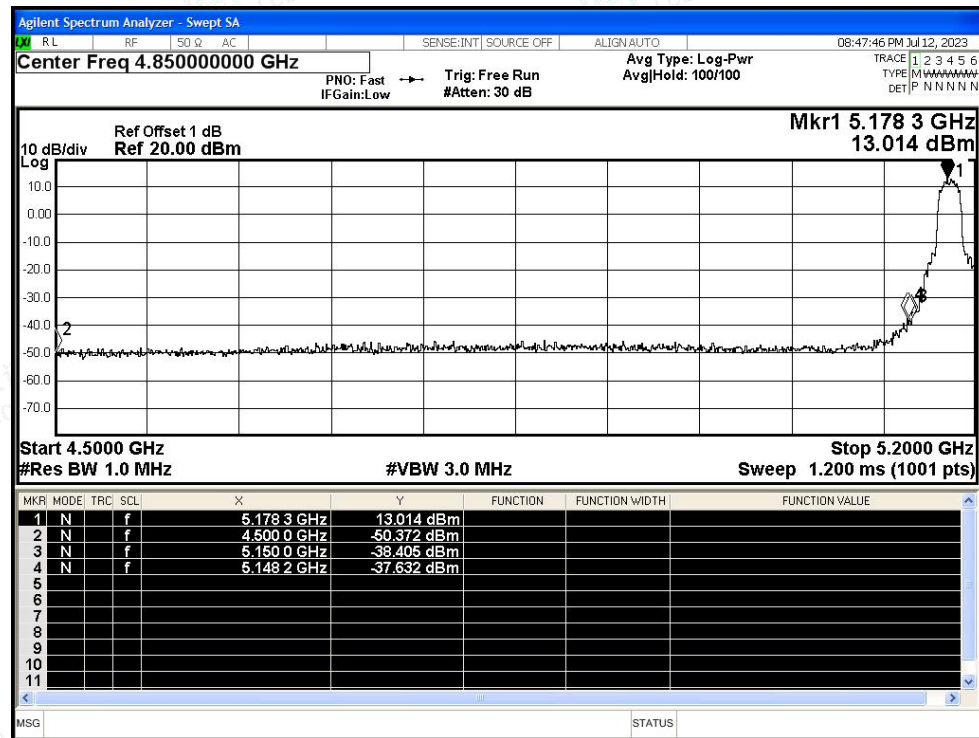
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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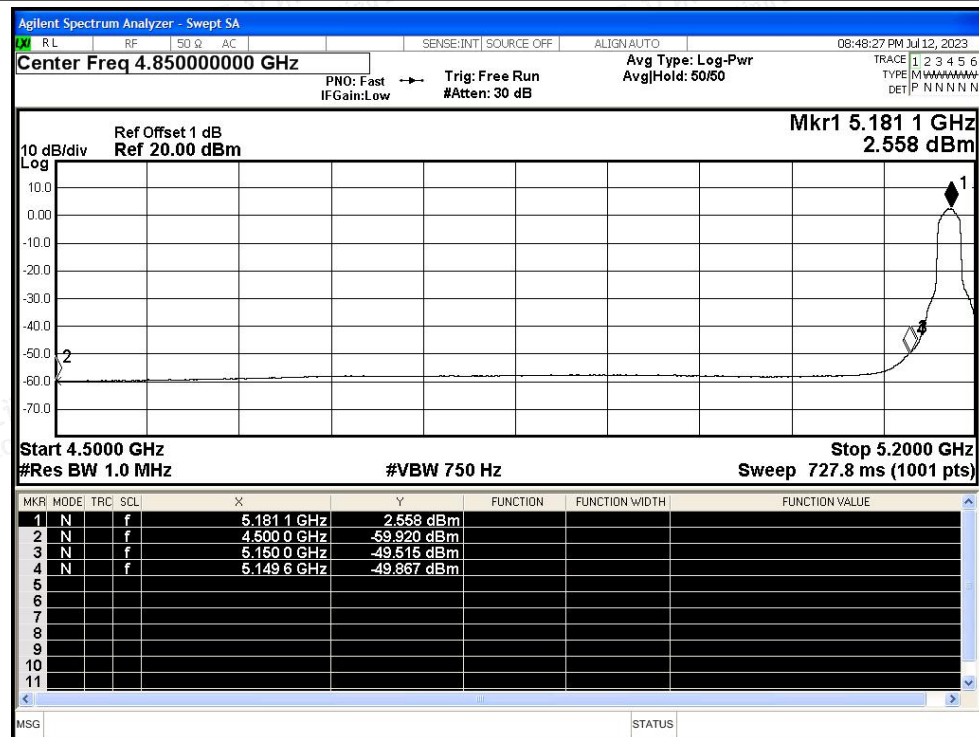


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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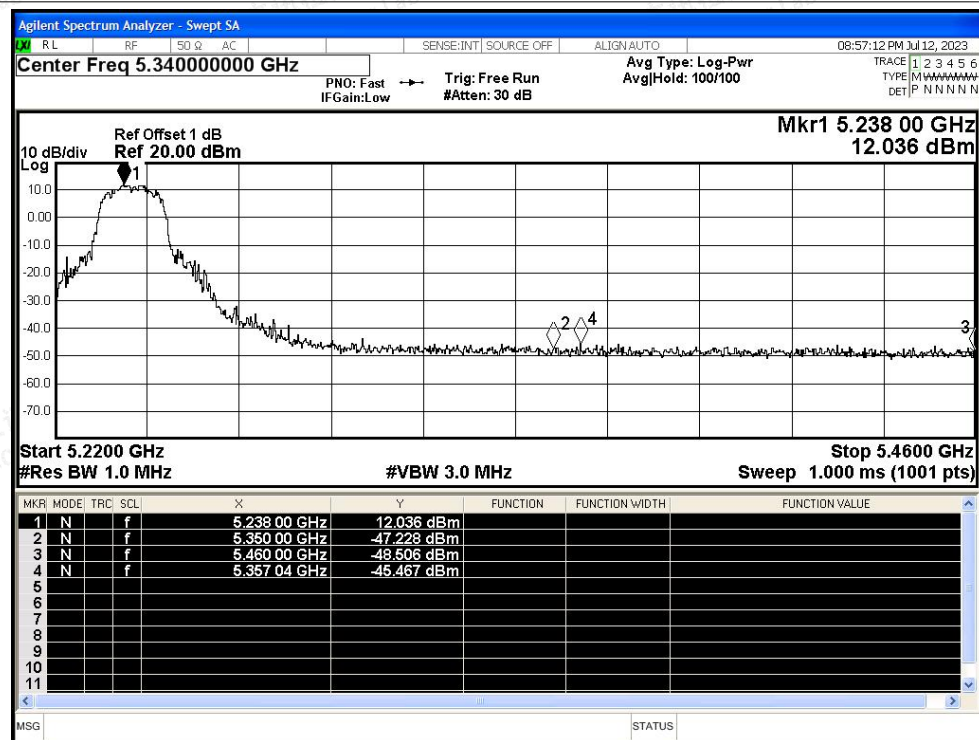
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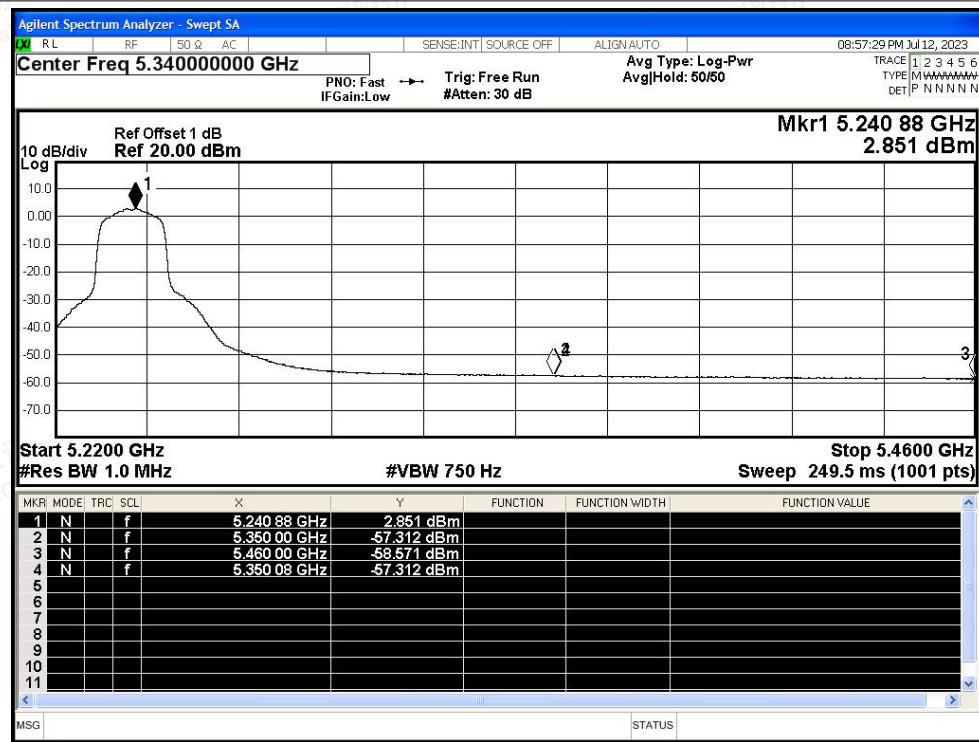
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average

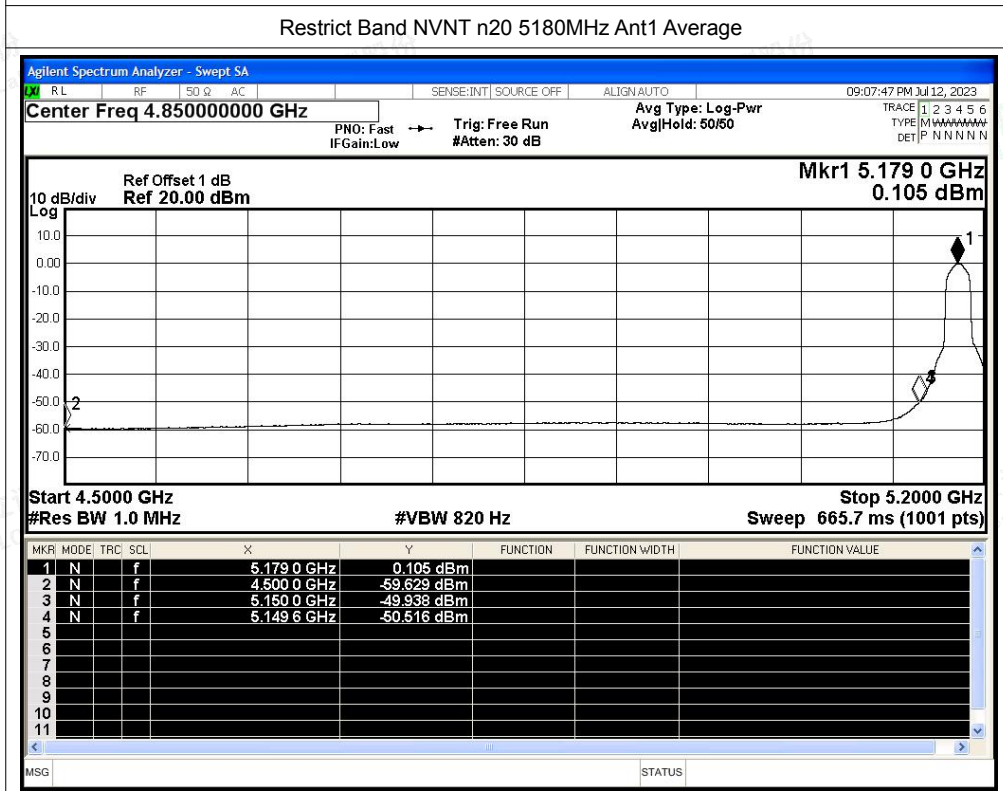
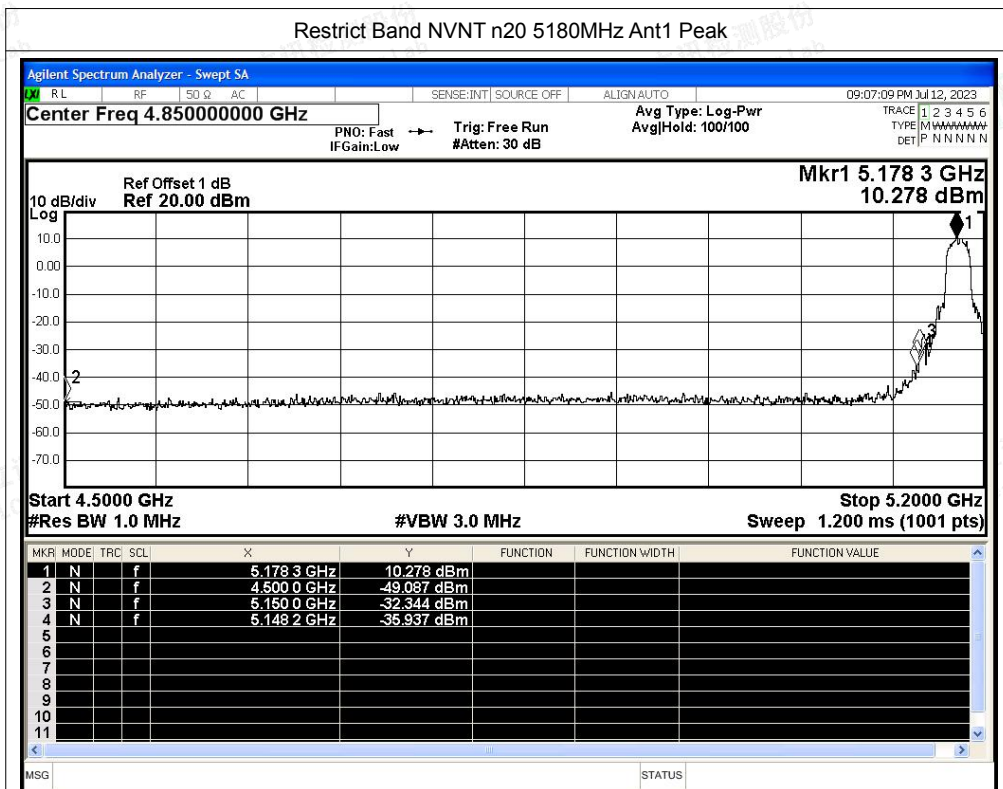


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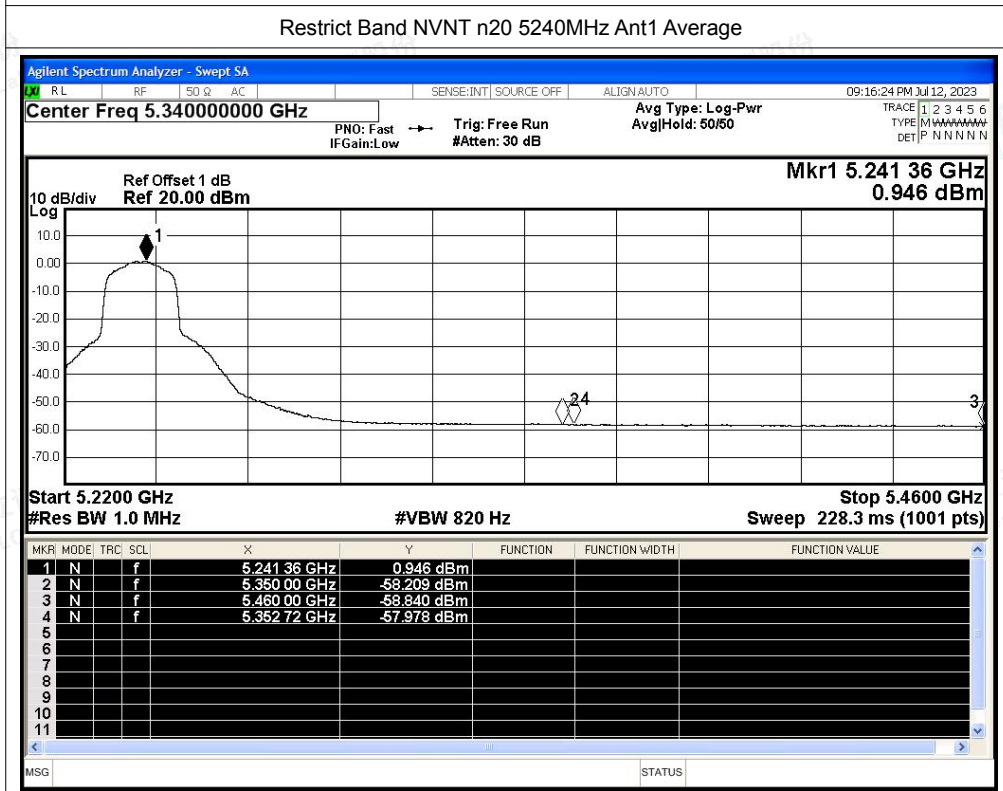
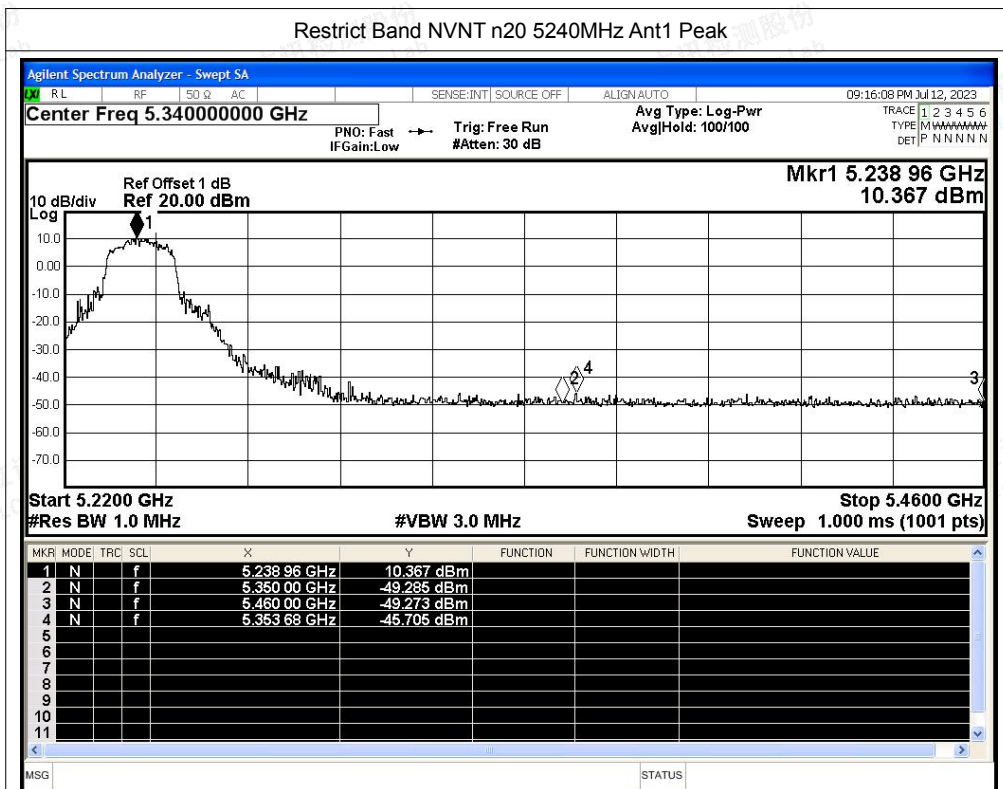


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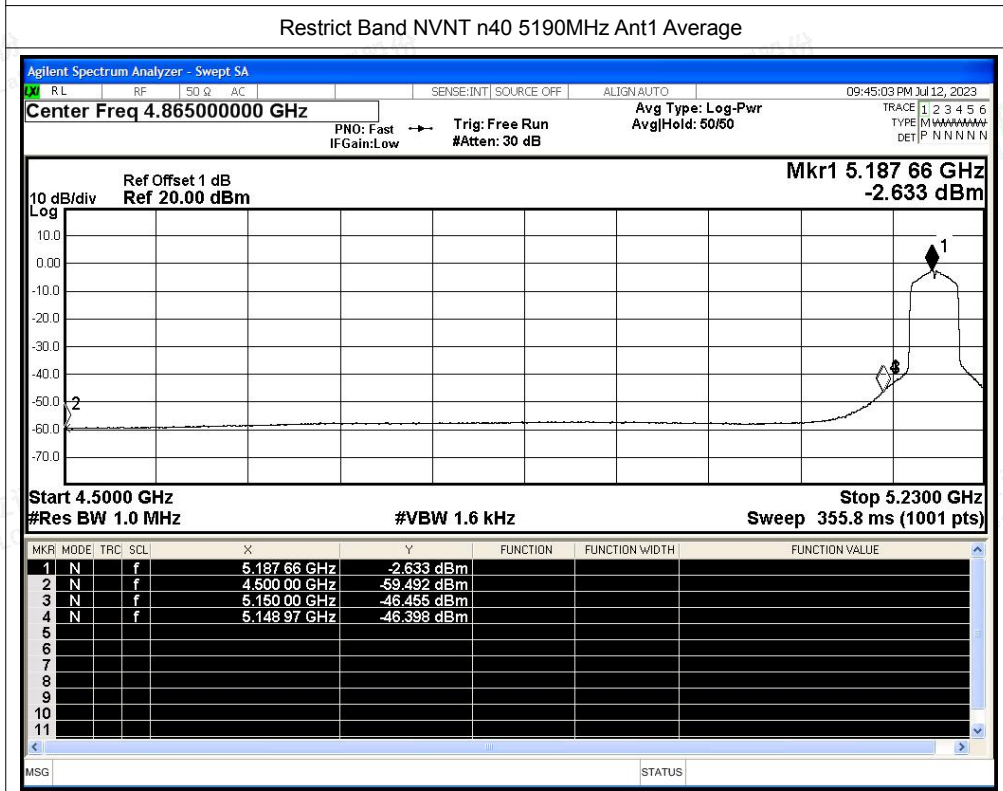
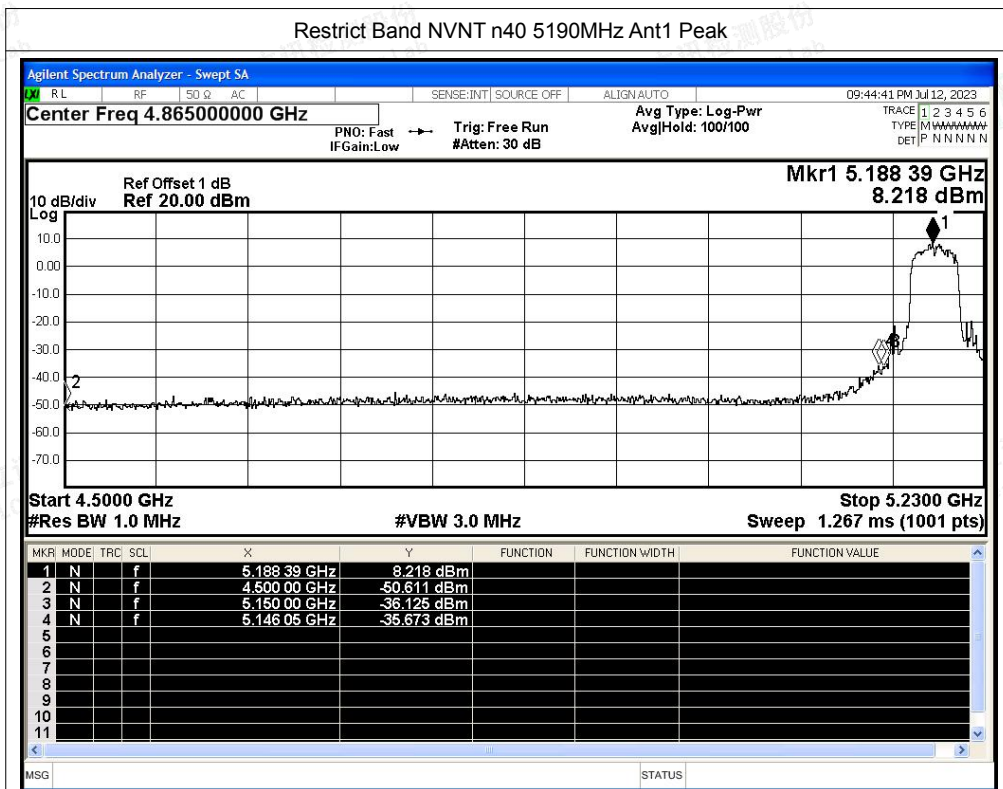


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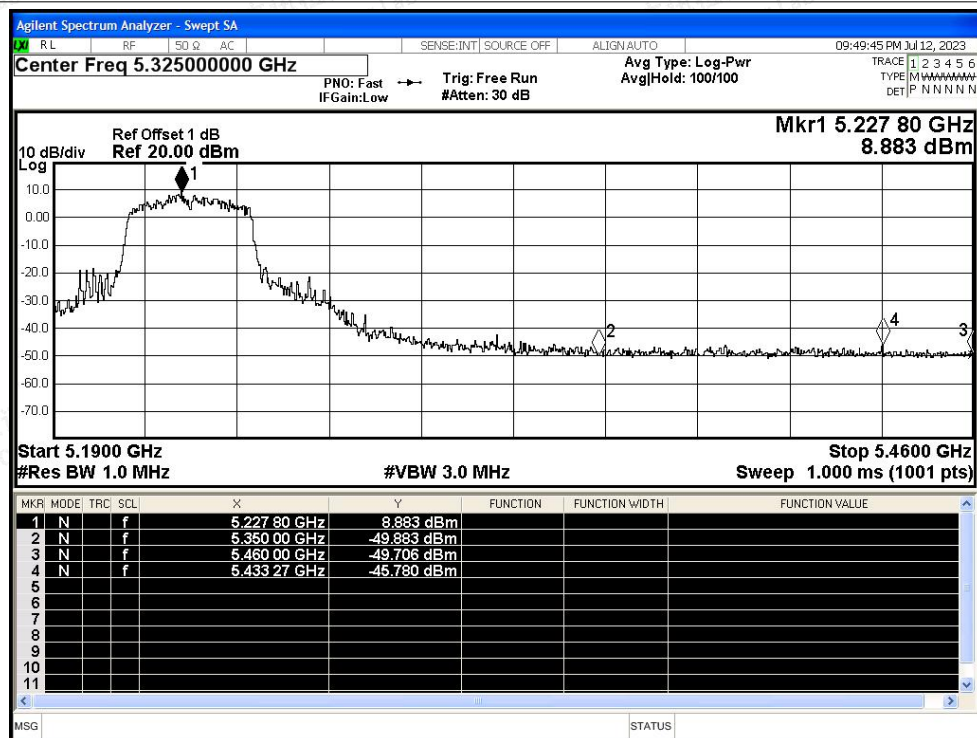
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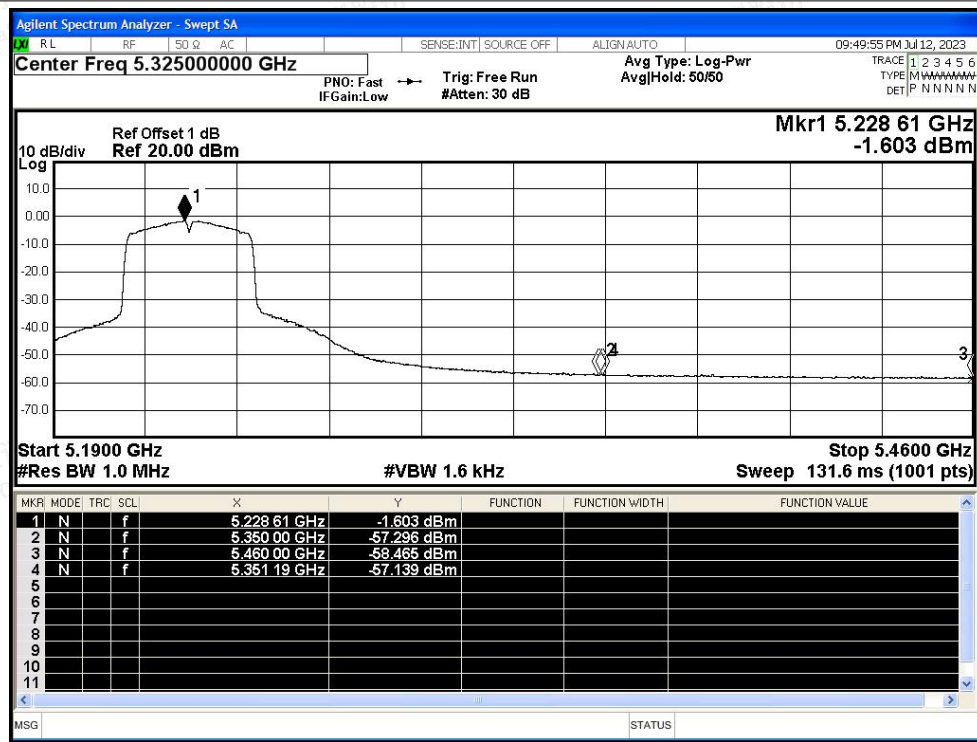
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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