



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: LAVA Guitar

Test Model: LAVA ME PLAY

Environmental Conditions

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





D.1-26dB Bandwidth

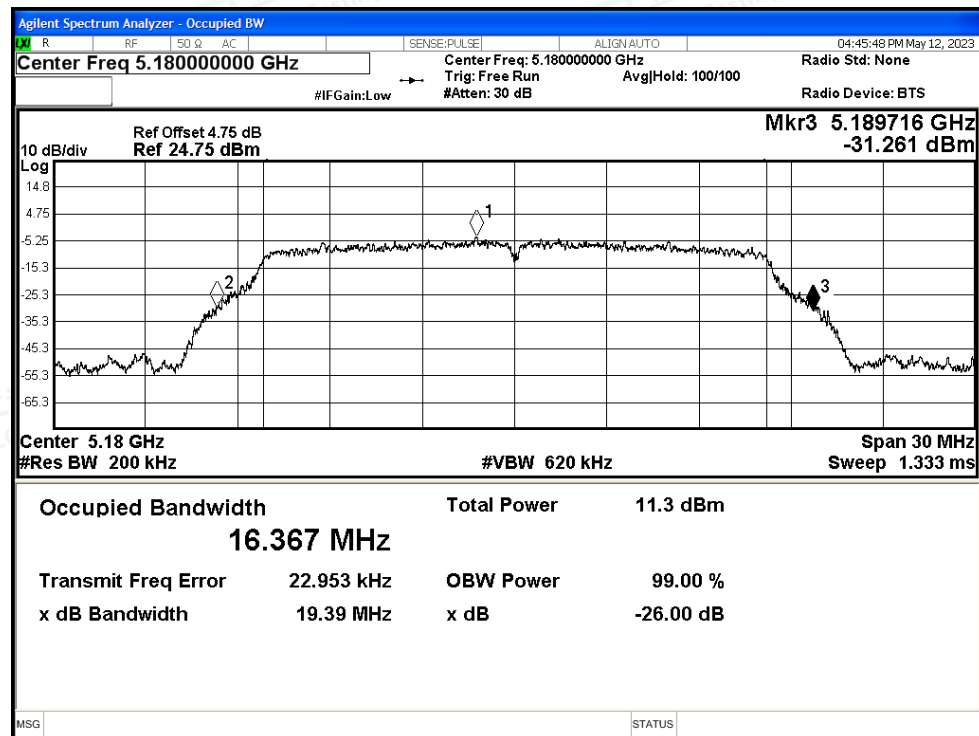
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	19.387	≥ 0.5	Pass
NVNT	a	5200	Ant0	19.782	≥ 0.5	Pass
NVNT	a	5240	Ant0	19.644	≥ 0.5	Pass
NVNT	n20	5180	Ant0	19.901	≥ 0.5	Pass
NVNT	n20	5200	Ant0	19.956	≥ 0.5	Pass
NVNT	n20	5240	Ant0	20.04	≥ 0.5	Pass
NVNT	n40	5190	Ant0	40.575	≥ 0.5	Pass
NVNT	n40	5230	Ant0	40.358	≥ 0.5	Pass
NVNT	ac20	5180	Ant0	19.99	≥ 0.5	Pass
NVNT	ac20	5200	Ant0	20.027	≥ 0.5	Pass
NVNT	ac20	5240	Ant0	19.993	≥ 0.5	Pass
NVNT	ac40	5190	Ant0	40.007	≥ 0.5	Pass
NVNT	ac40	5230	Ant0	39.925	≥ 0.5	Pass
NVNT	ac80	5210	Ant0	80.093	≥ 0.5	Pass



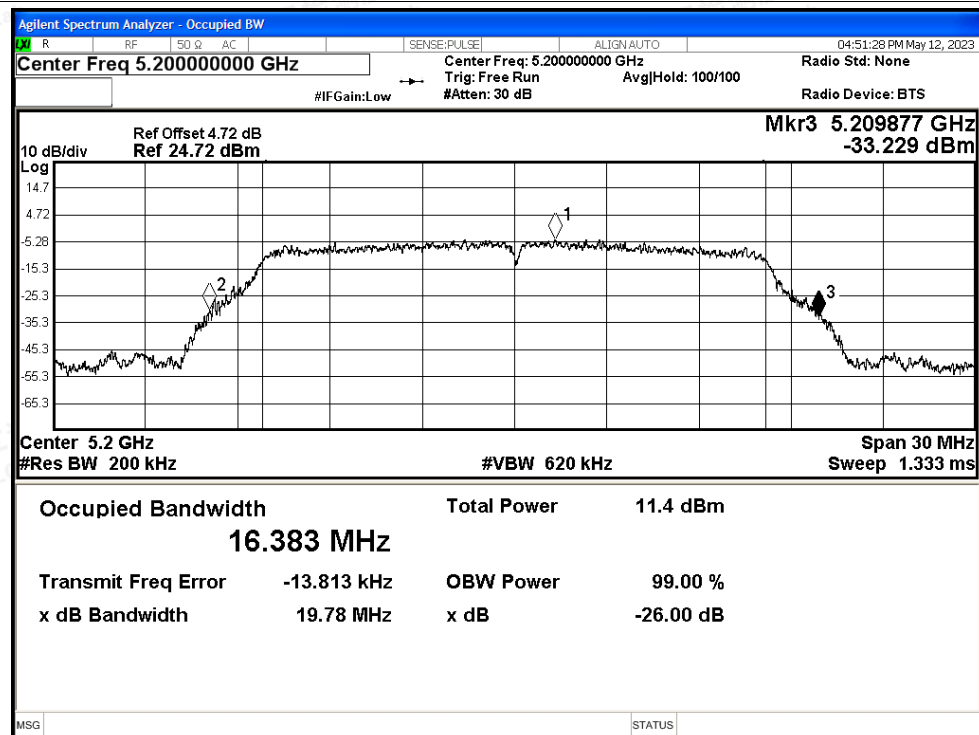


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0

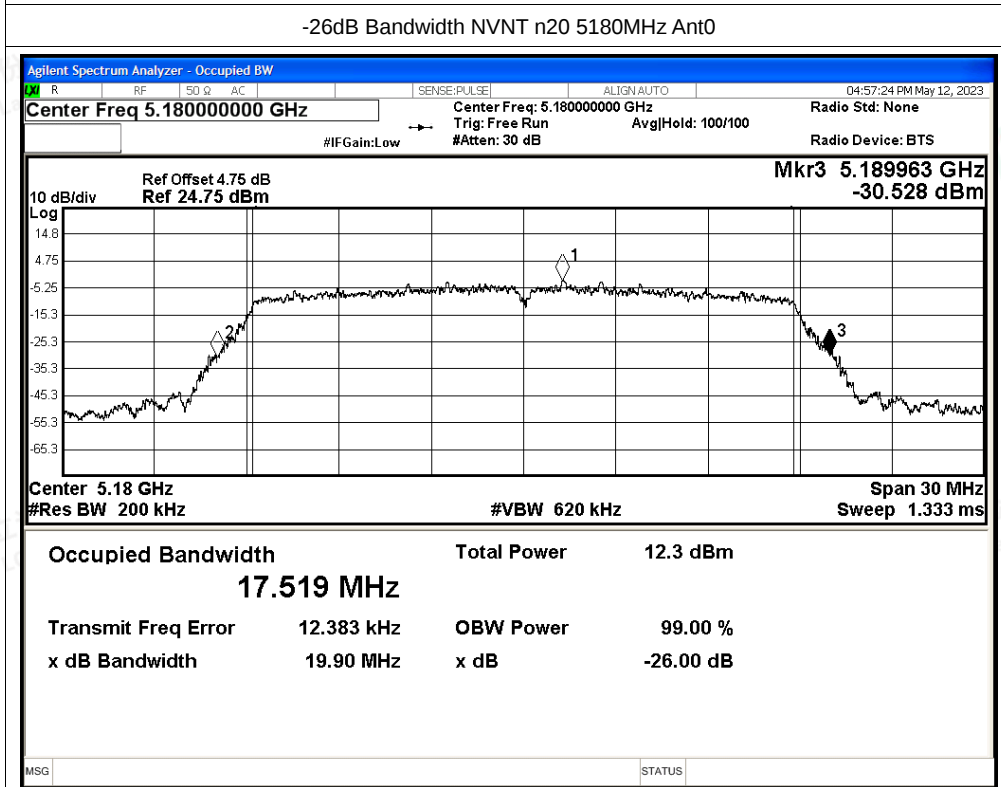
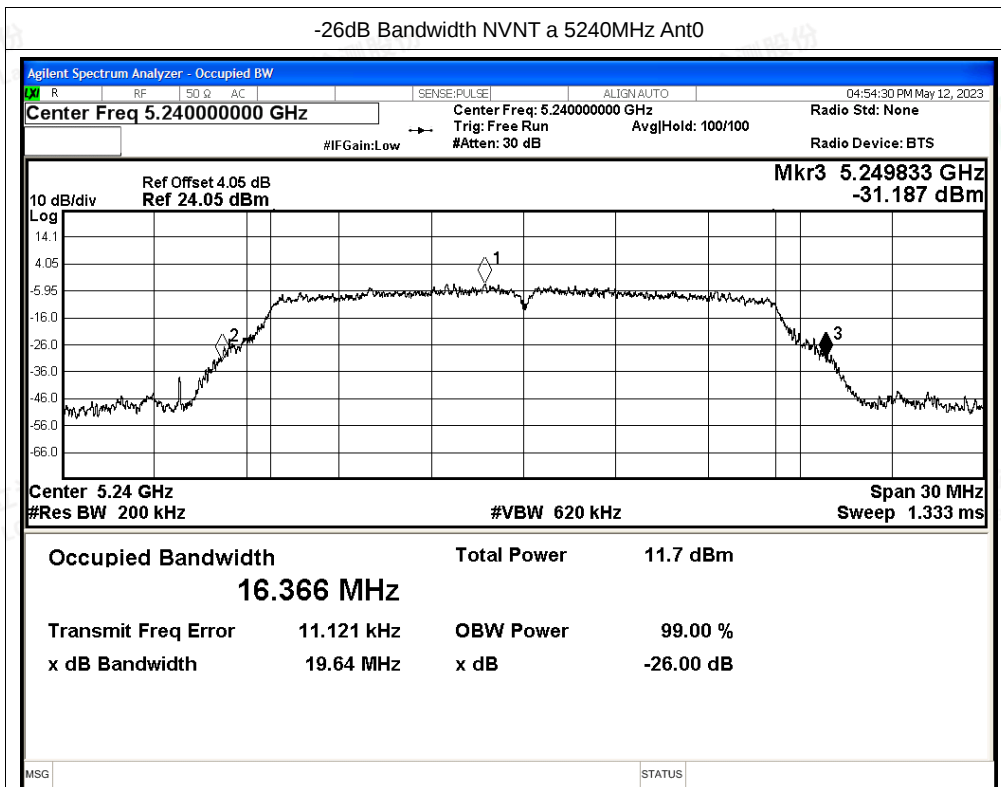


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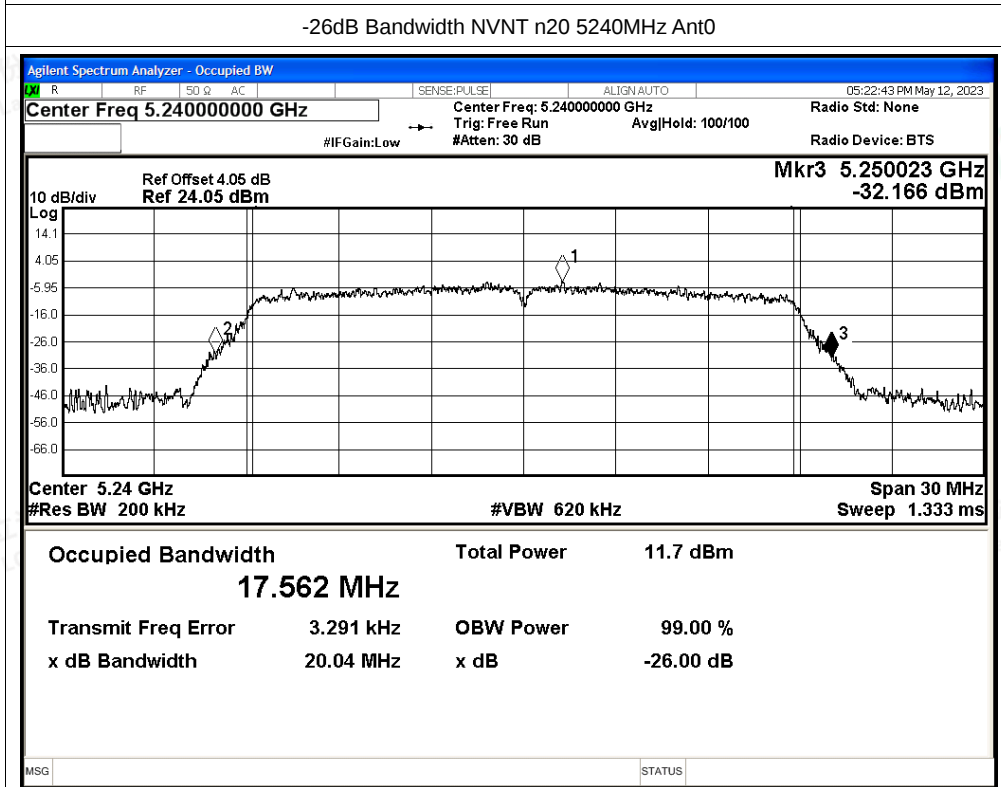
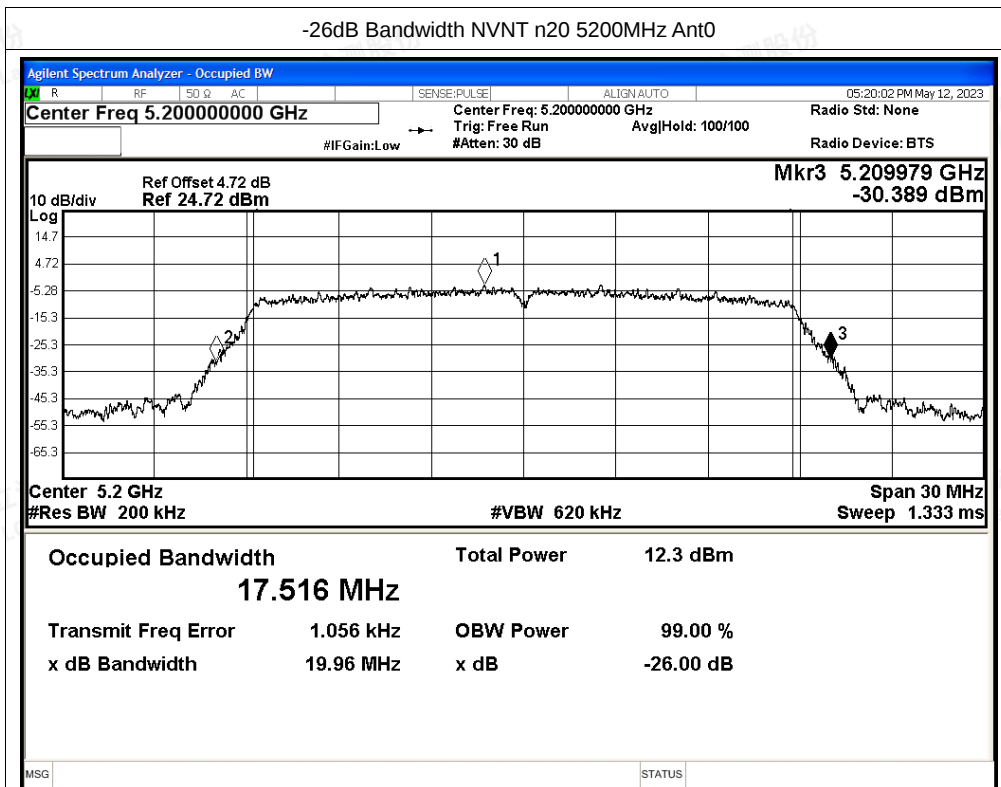


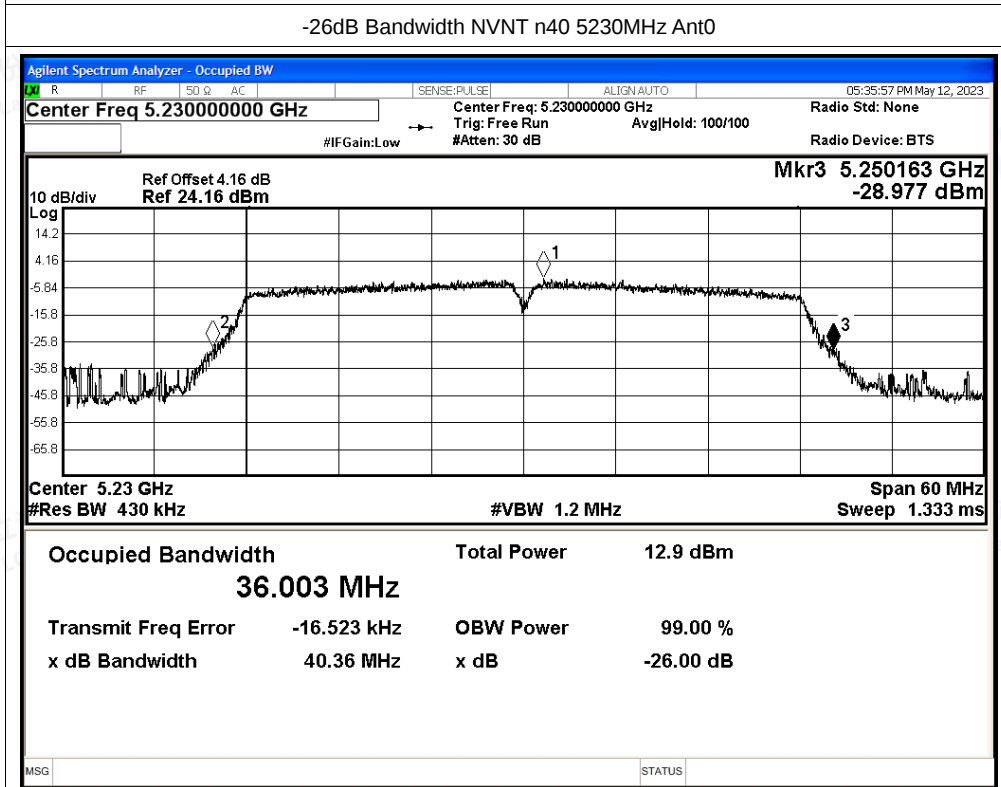
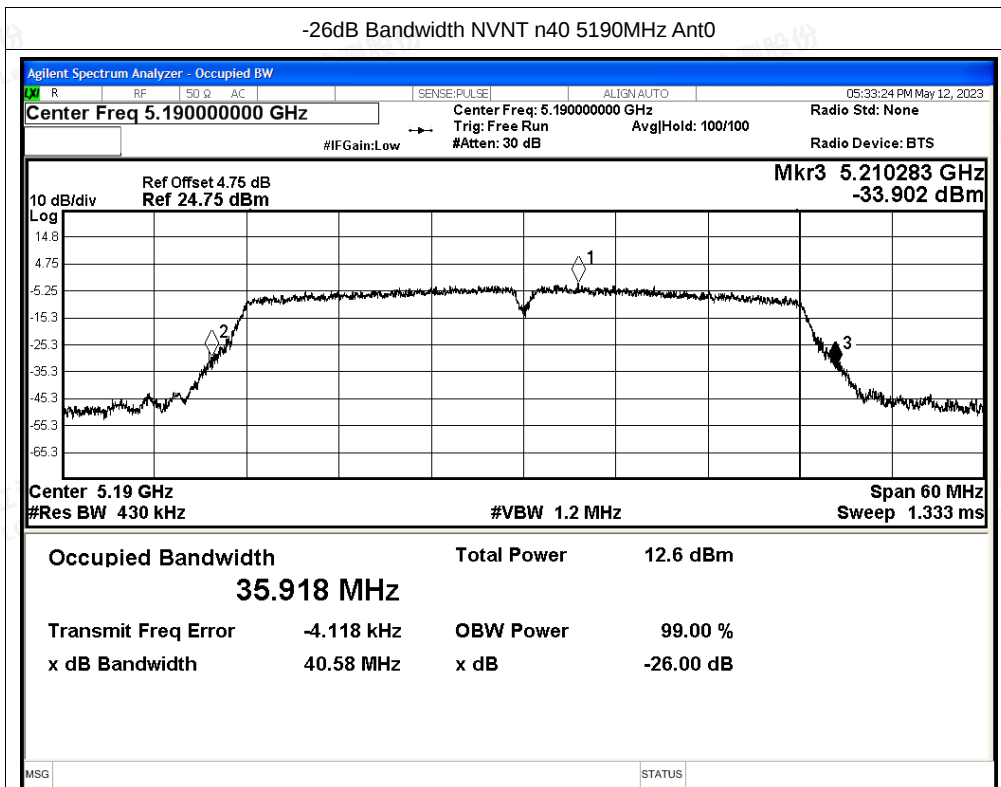
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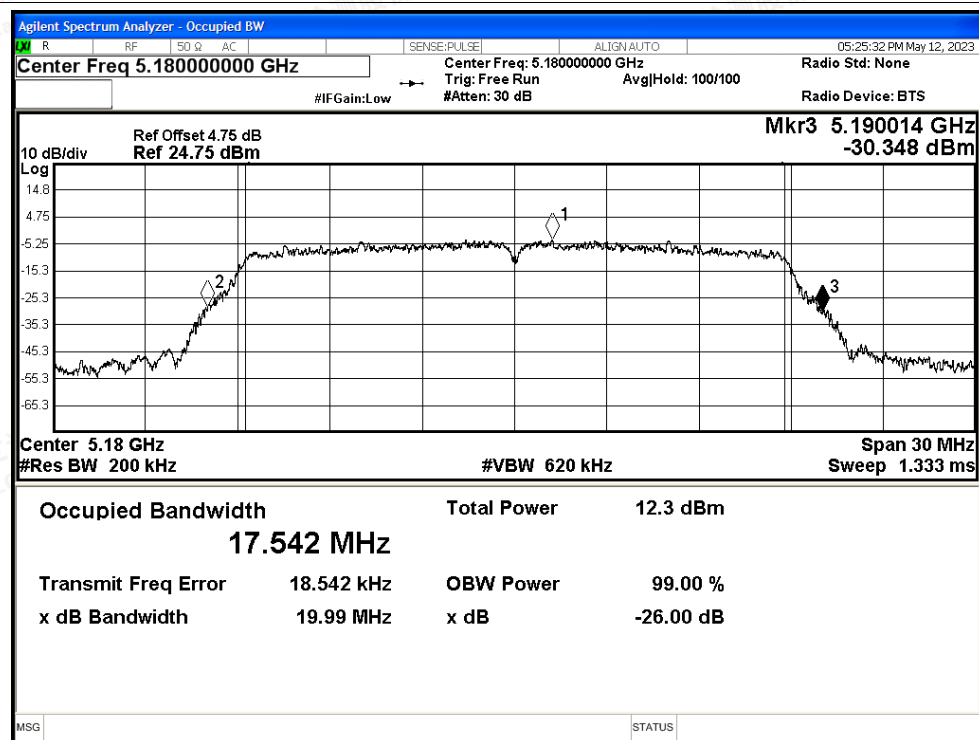
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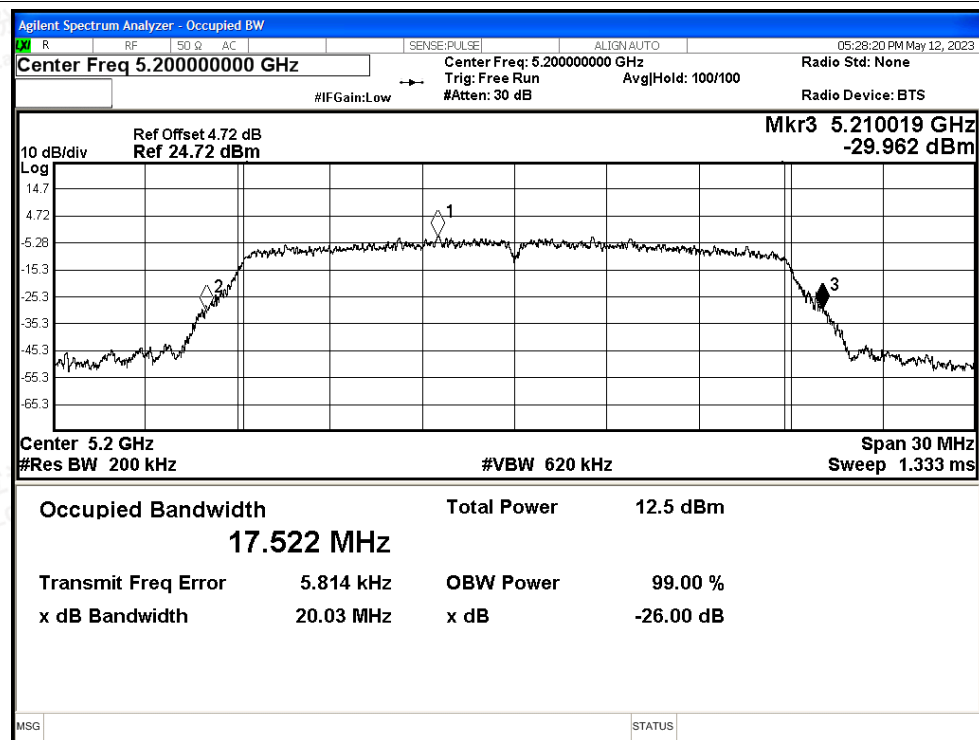
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-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5200MHz Ant0

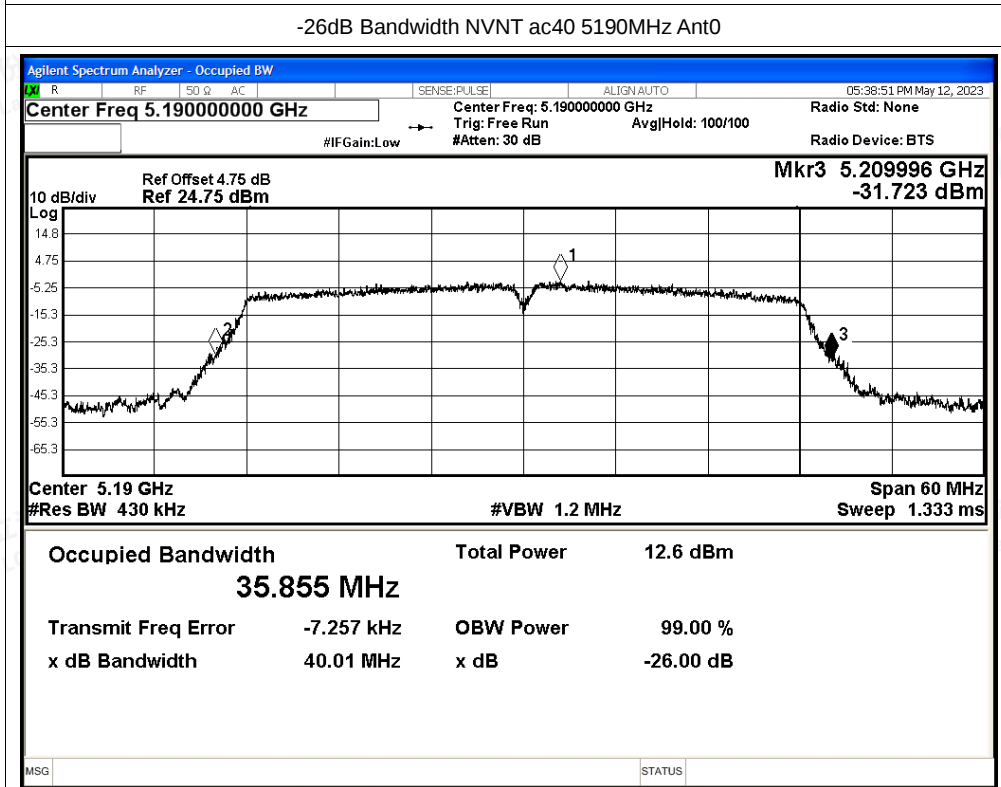
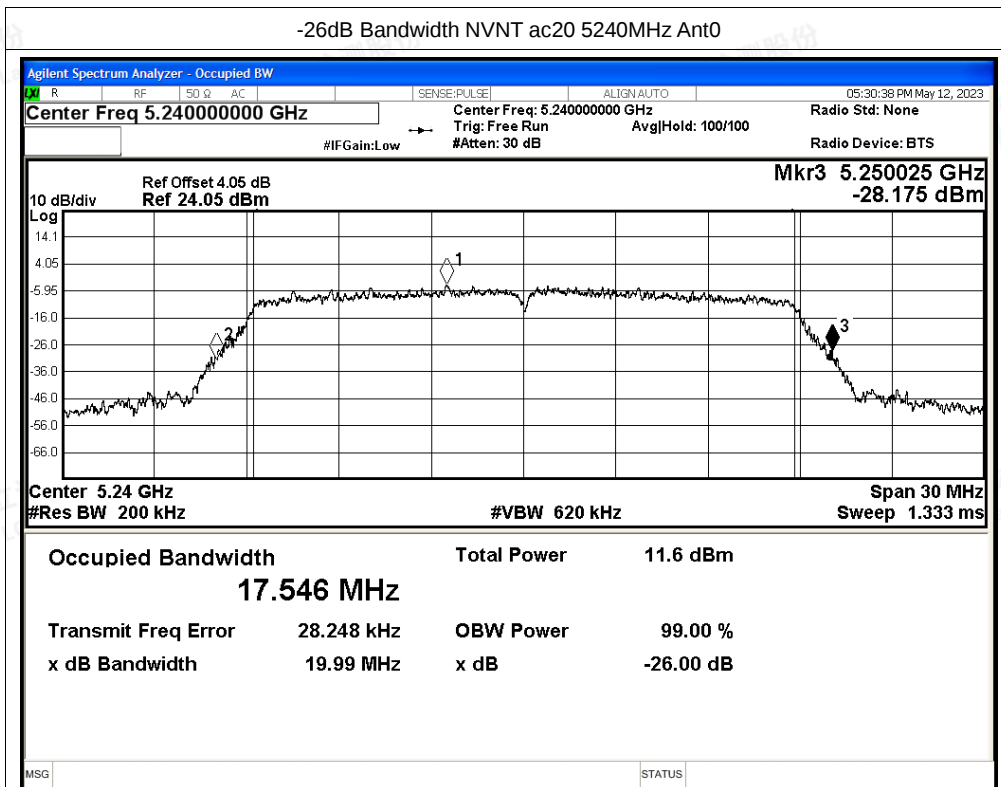


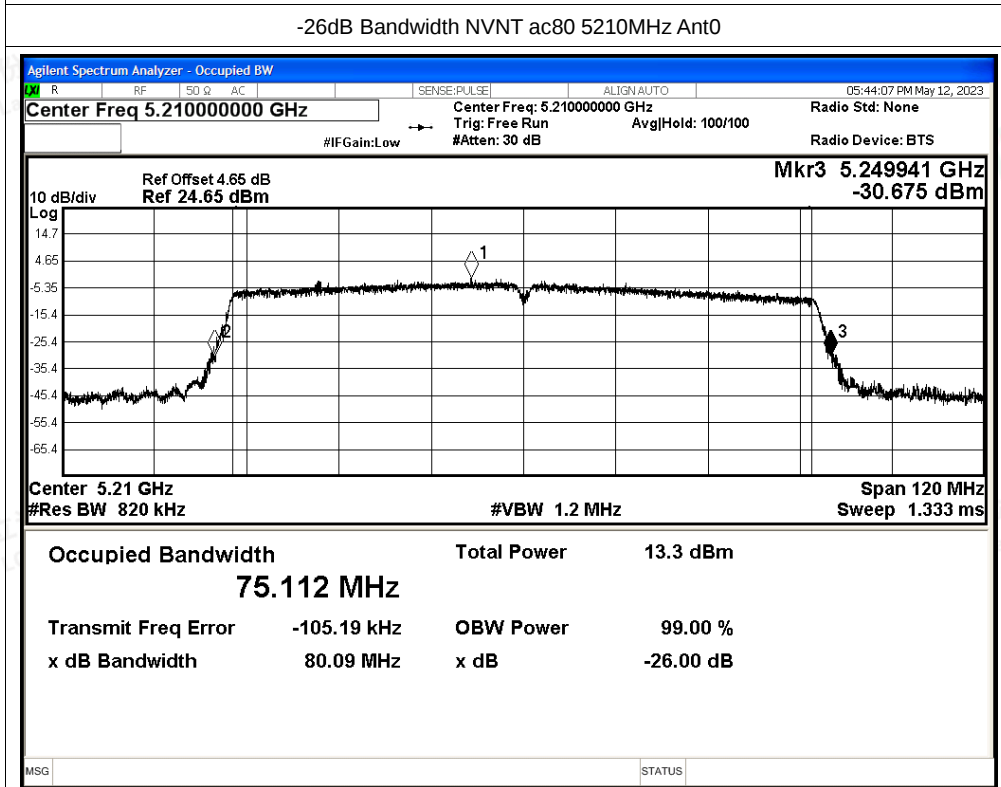
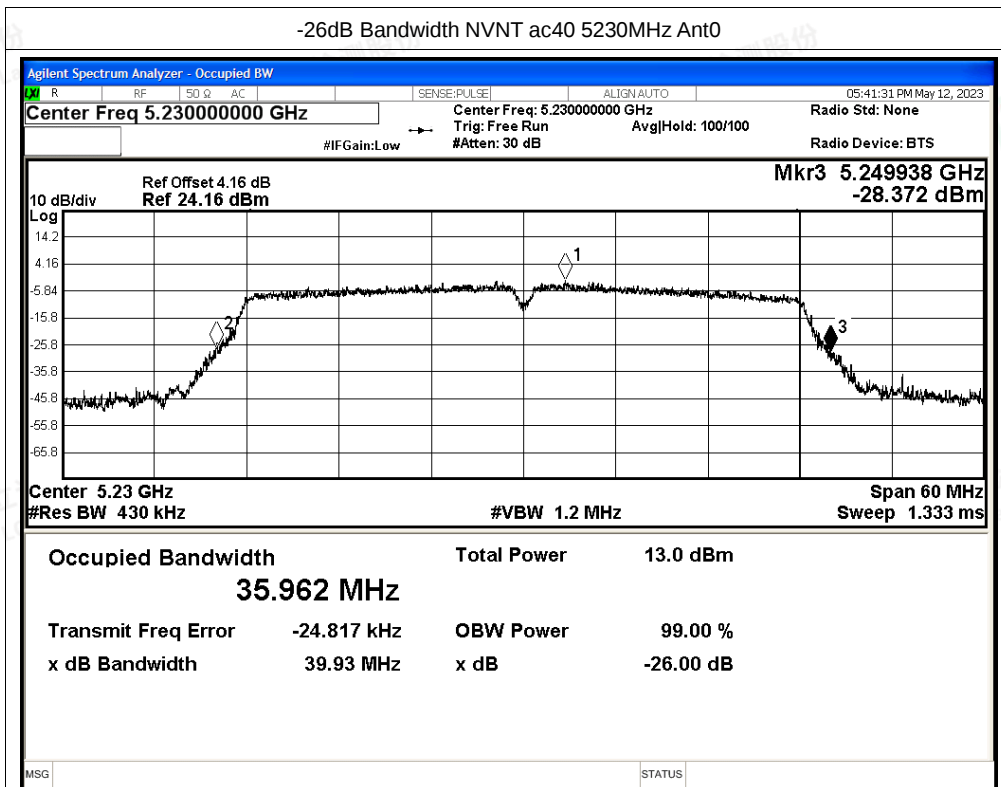
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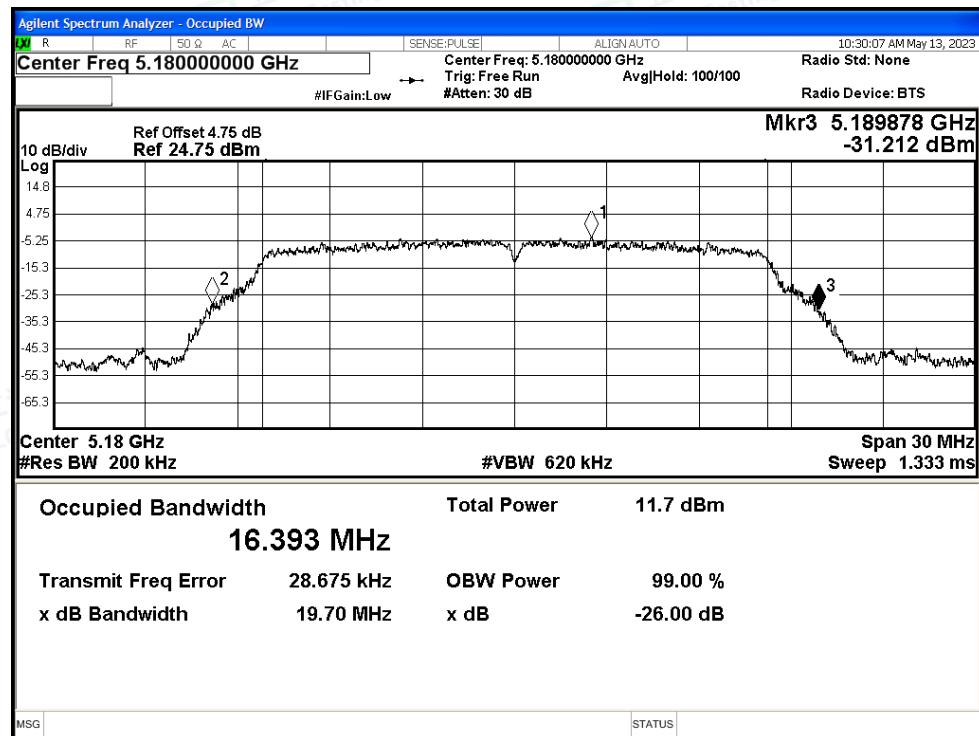
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NVNT	a	5180	Ant1	19.7	≥ 0.5	Pass
NVNT	a	5200	Ant1	19.496	≥ 0.5	Pass
NVNT	a	5240	Ant1	19.745	≥ 0.5	Pass
NVNT	n20	5180	Ant1	20.142	≥ 0.5	Pass
NVNT	n20	5200	Ant1	20.012	≥ 0.5	Pass
NVNT	n20	5240	Ant1	20.044	≥ 0.5	Pass
NVNT	n40	5190	Ant1	40.15	≥ 0.5	Pass
NVNT	n40	5230	Ant1	40.479	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	19.68	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	19.877	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	19.729	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	40.01	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	40.13	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	80.251	≥ 0.5	Pass



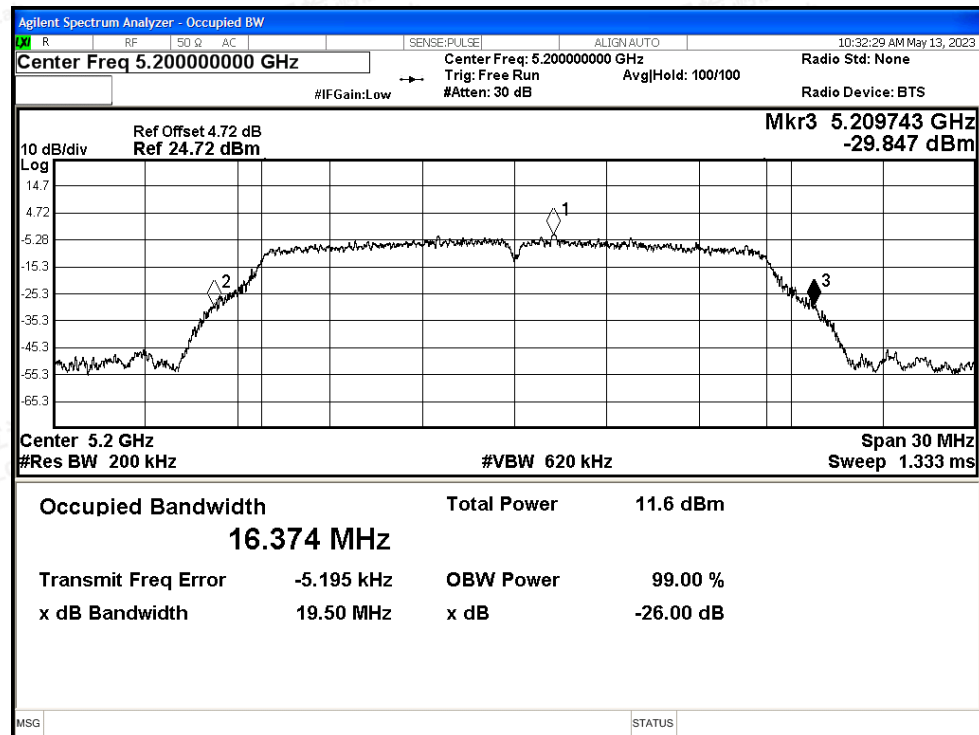


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

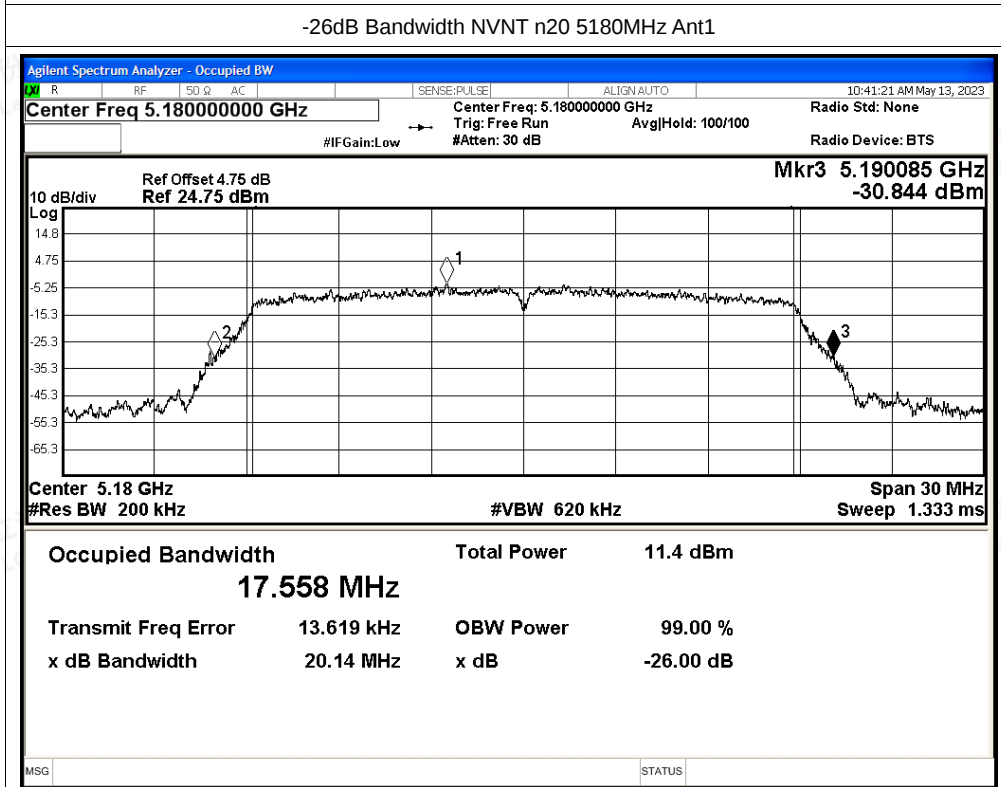
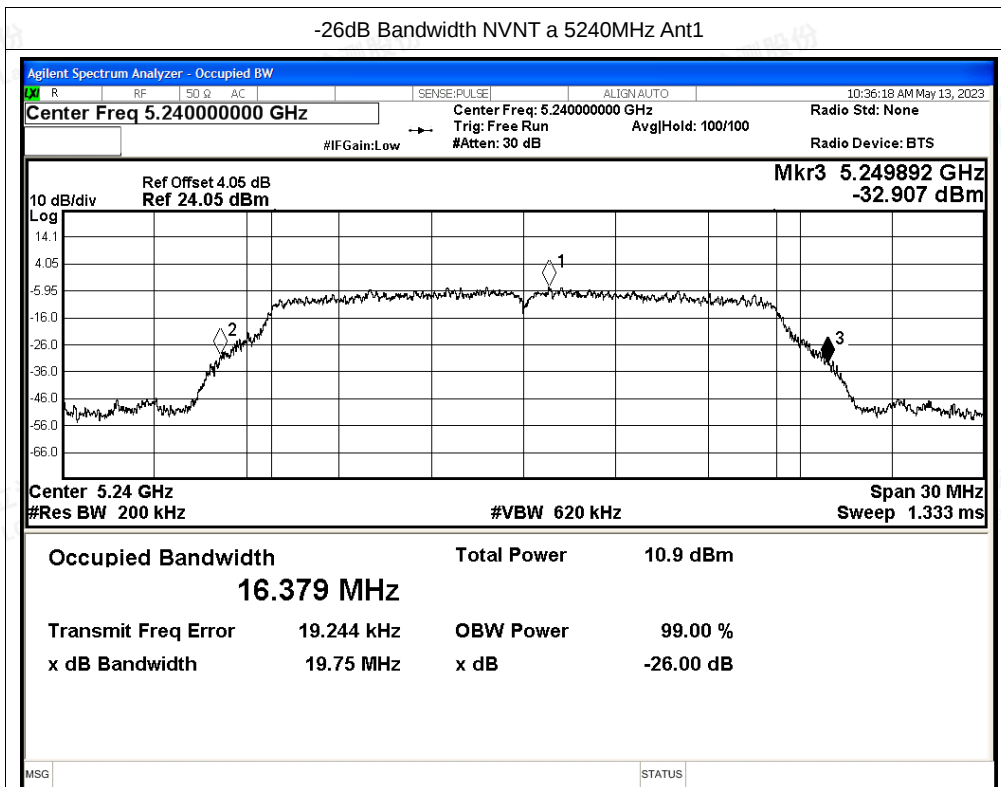


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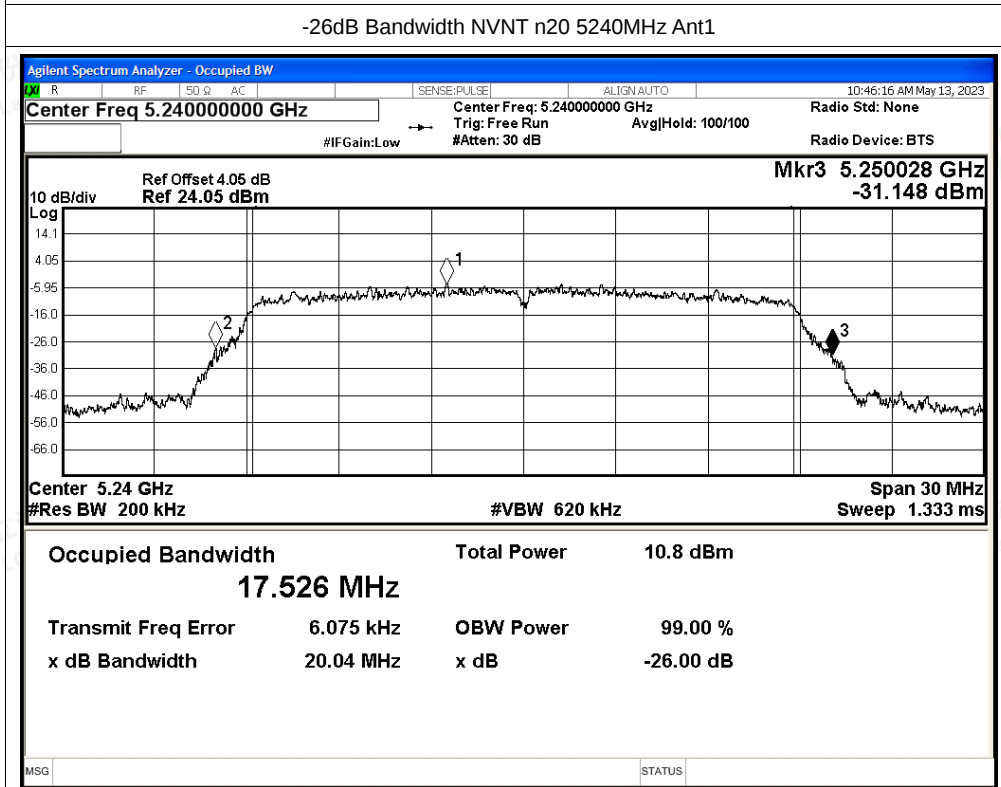
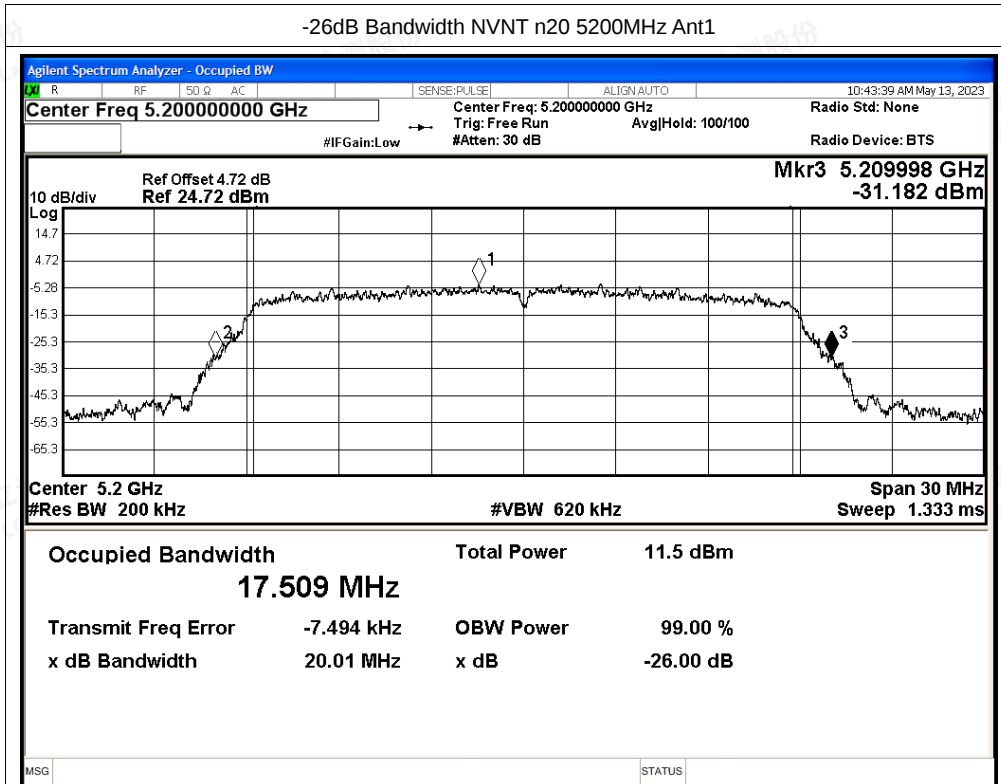


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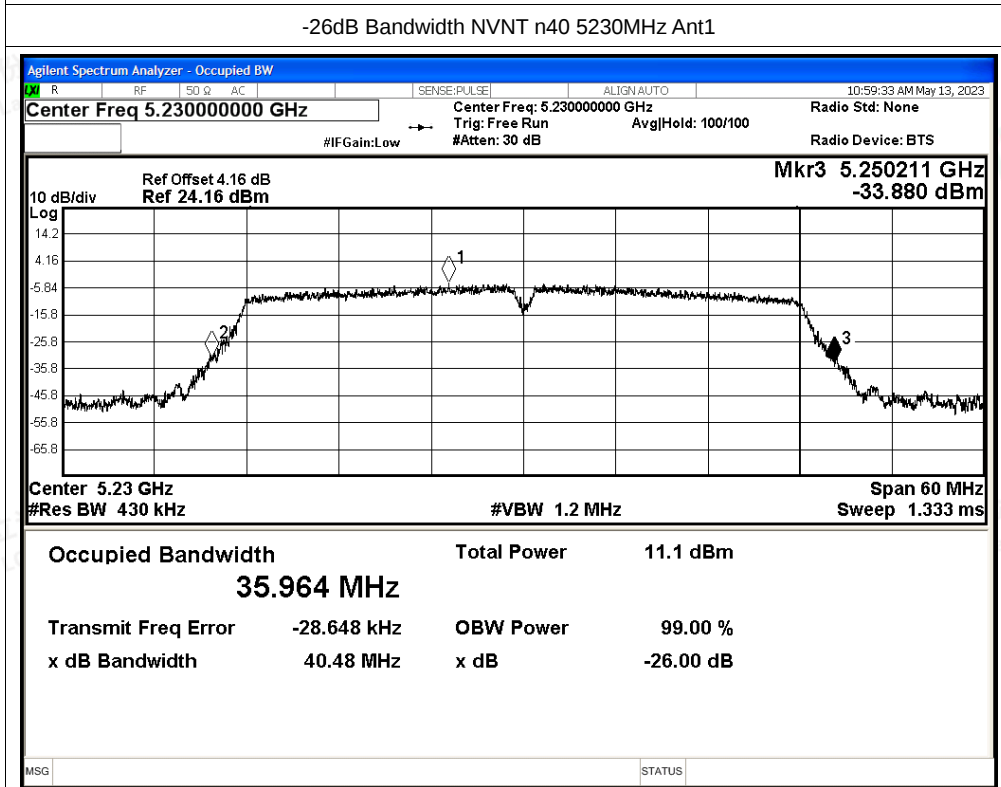
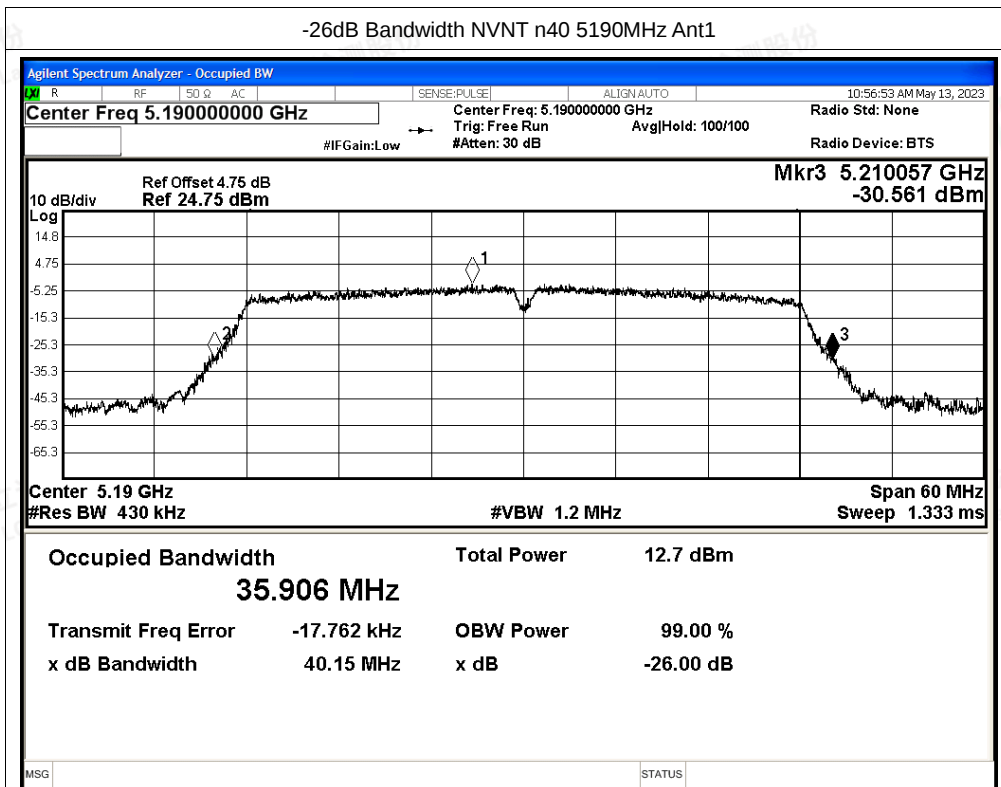


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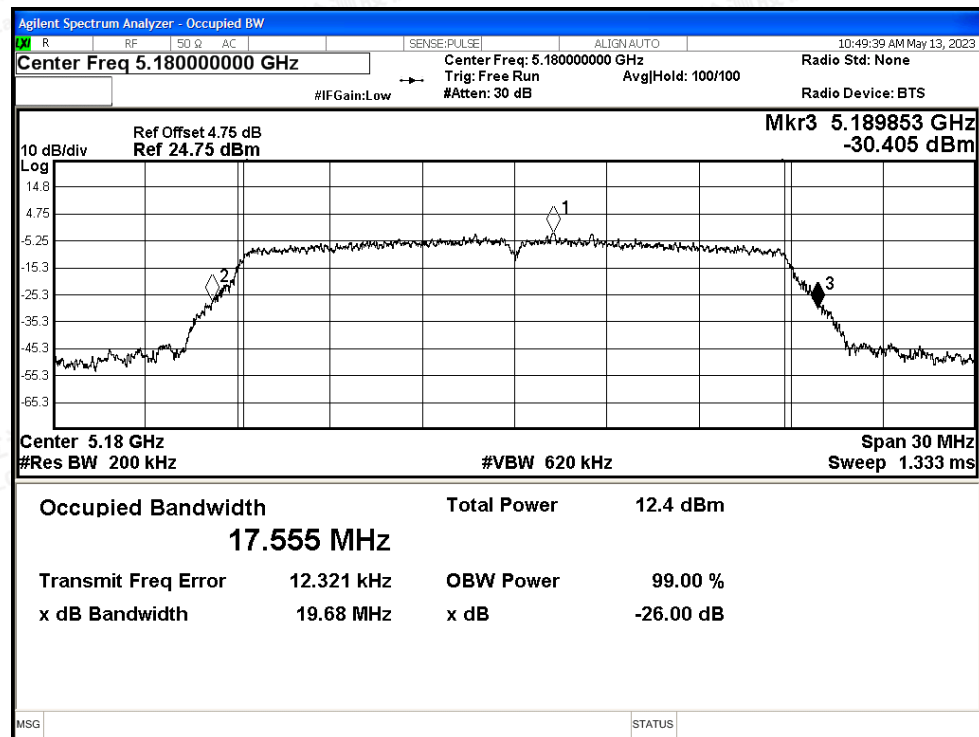
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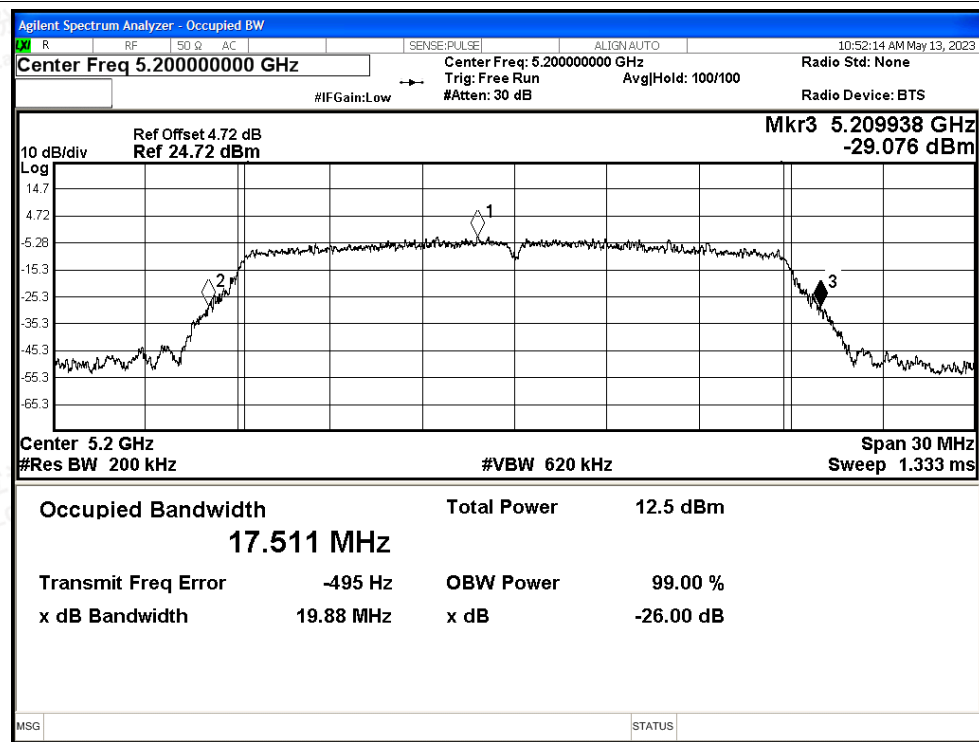
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1

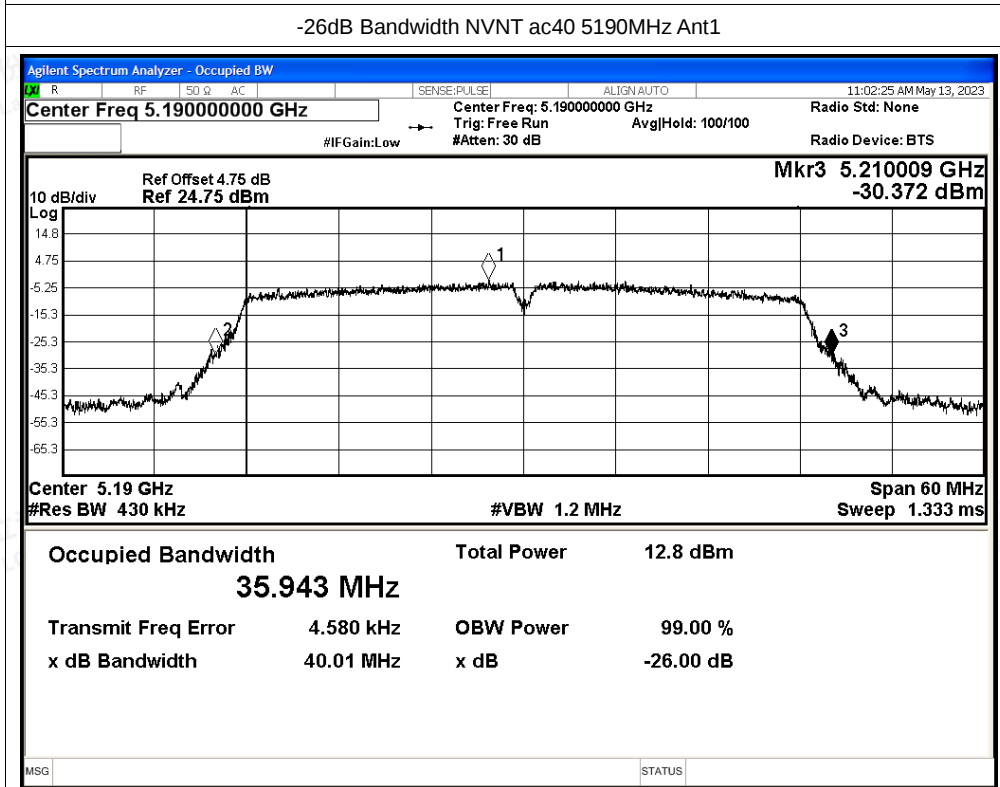
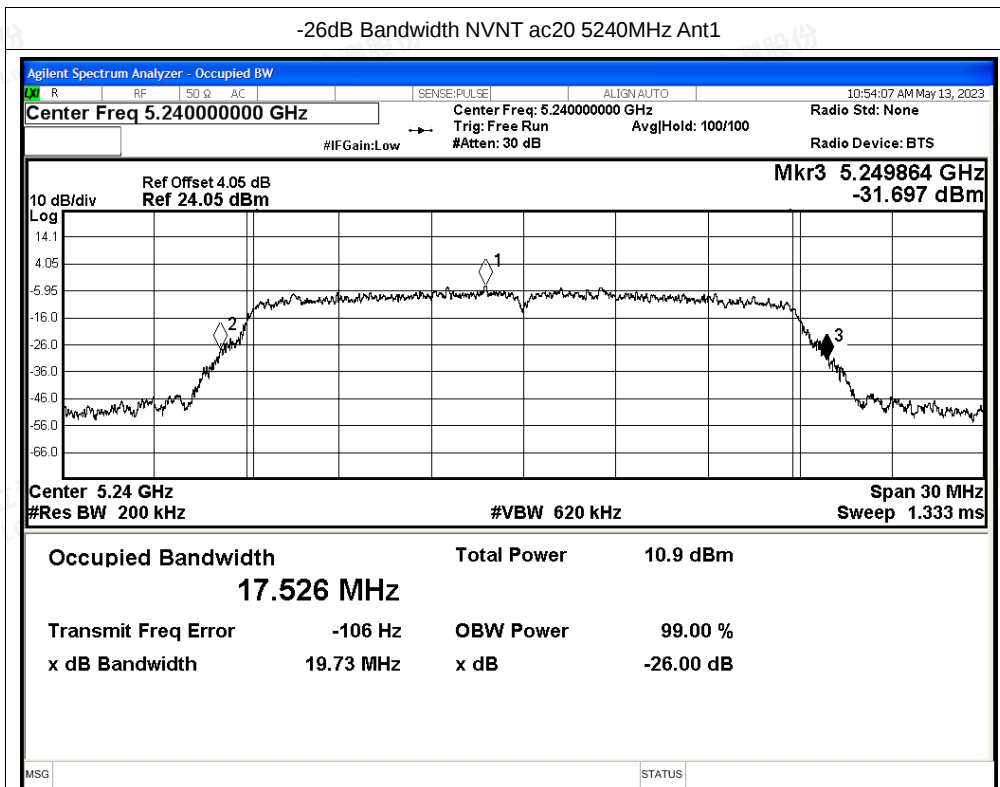


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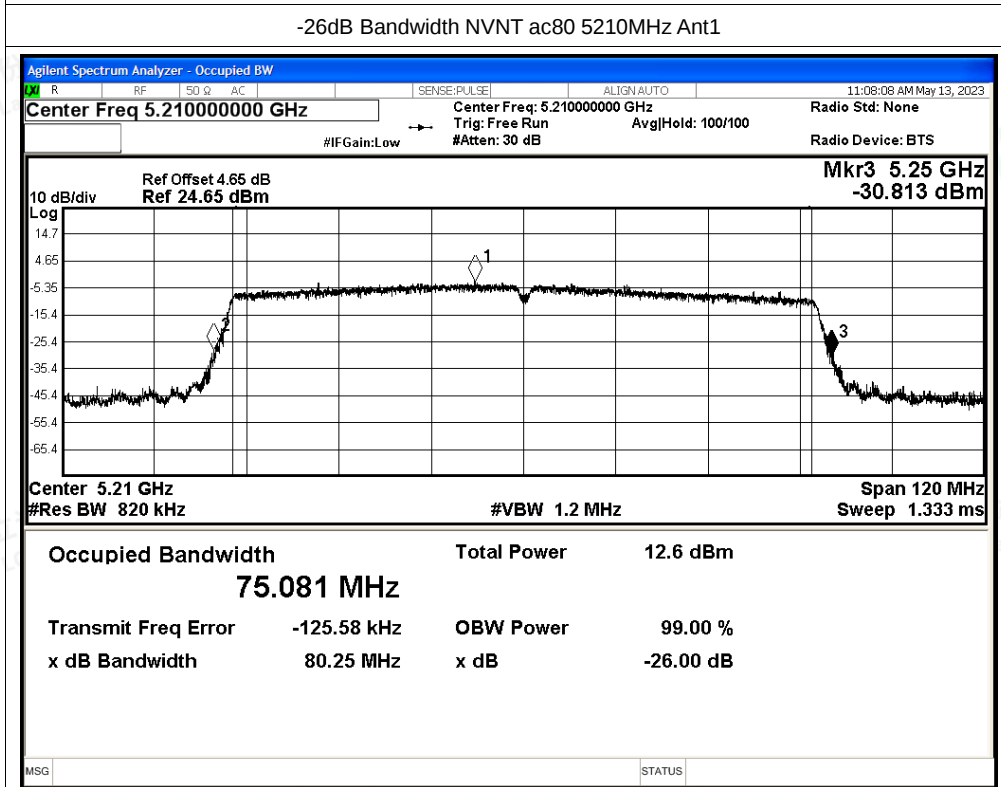
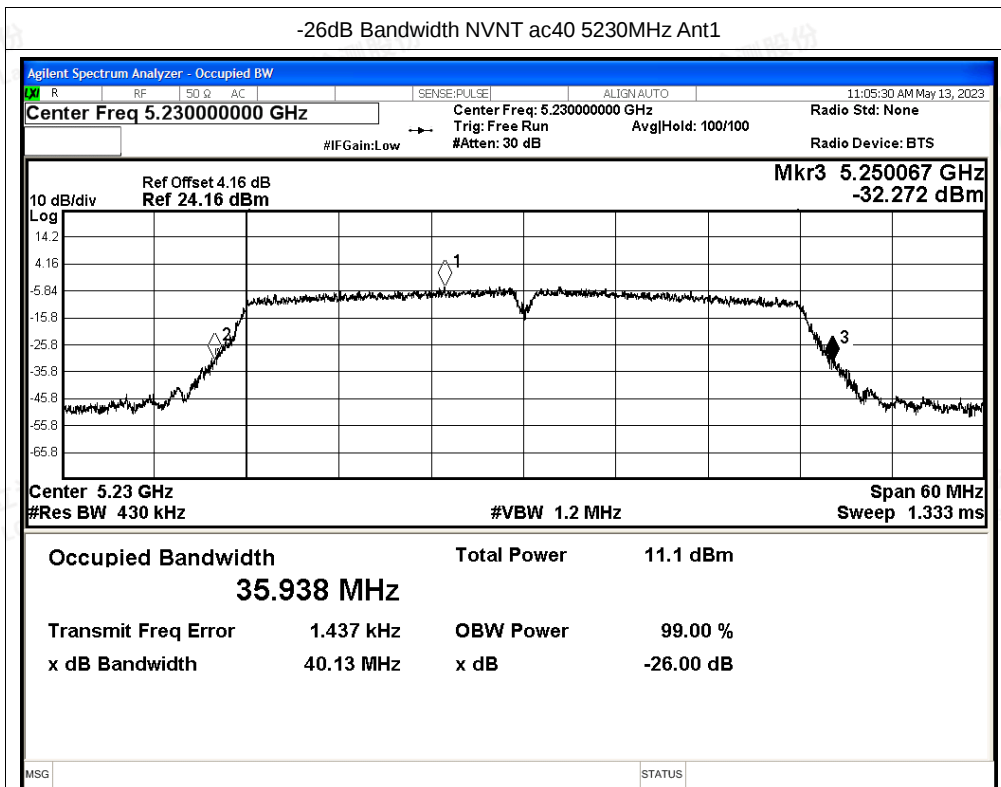


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	6.09	0.13	6.22	24	Pass
NVNT	a	5200	Ant0	5.81	0.13	5.94	24	Pass
NVNT	a	5240	Ant0	6.09	0.13	6.22	24	Pass
NVNT	n20	5180	Ant0	6.66	0.15	6.81	24	Pass
NVNT	n20	5200	Ant0	6.62	0.14	6.76	24	Pass
NVNT	n20	5240	Ant0	6.17	0.14	6.31	24	Pass
NVNT	n40	5190	Ant0	6.7	0.29	6.99	24	Pass
NVNT	n40	5230	Ant0	6.88	0.29	7.17	24	Pass
NVNT	ac20	5180	Ant0	6.73	0.15	6.88	24	Pass
NVNT	ac20	5200	Ant0	6.74	0.14	6.88	24	Pass
NVNT	ac20	5240	Ant0	6	0.15	6.15	24	Pass
NVNT	ac40	5190	Ant0	6.71	0.28	6.99	24	Pass
NVNT	ac40	5230	Ant0	6.92	0.28	7.2	24	Pass
NVNT	ac80	5210	Ant0	6.61	0.55	7.16	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.97	0.13	6.1	24	Pass
NVNT	a	5200	Ant1	5.97	0.14	6.11	24	Pass
NVNT	a	5240	Ant1	5.14	0.13	5.27	24	Pass
NVNT	n20	5180	Ant1	5.86	0.14	6	24	Pass
NVNT	n20	5200	Ant1	5.79	0.15	5.94	24	Pass
NVNT	n20	5240	Ant1	5.07	0.15	5.22	24	Pass
NVNT	n40	5190	Ant1	6.88	0.29	7.17	24	Pass
NVNT	n40	5230	Ant1	5.24	0.29	5.53	24	Pass
NVNT	ac20	5180	Ant1	6.89	0.15	7.04	24	Pass
NVNT	ac20	5200	Ant1	6.85	0.14	6.99	24	Pass
NVNT	ac20	5240	Ant1	5.15	0.15	5.3	24	Pass
NVNT	ac40	5190	Ant1	6.88	0.28	7.10	24	Pass
NVNT	ac40	5230	Ant1	5.27	0.28	5.55	24	Pass
NVNT	ac80	5210	Ant1	5.62	0.55	6.17	24	Pass



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Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	6.81	6	9.43	24	Pass
NVNT	n20	5200	6.76	5.94	9.38	24	Pass
NVNT	n20	5240	6.31	5.22	8.81	24	Pass
NVNT	n40	5190	6.99	7.17	10.09	24	Pass
NVNT	n40	5230	7.17	5.53	9.44	24	Pass
NVNT	ac20	5180	6.88	7.04	9.97	24	Pass
NVNT	ac20	5200	6.88	6.99	9.95	24	Pass
NVNT	ac20	5240	6.15	5.3	8.76	24	Pass
NVNT	ac40	5190	6.99	7.10	10.06	24	Pass
NVNT	ac40	5230	7.2	5.55	9.46	24	Pass
NVNT	ac80	5210	7.16	6.17	9.70	24	Pass





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	Ant0	-3.88	0.13	-3.75	11	Pass
NVNT	a	5200	Ant0	-3.79	0.13	-3.66	11	Pass
NVNT	a	5240	Ant0	-3.45	0.13	-3.32	11	Pass
NVNT	n20	5180	Ant0	-3.27	0.15	-3.12	11	Pass
NVNT	n20	5200	Ant0	-3.15	0.14	-3.01	11	Pass
NVNT	n20	5240	Ant0	-3.65	0.14	-3.51	11	Pass
NVNT	n40	5190	Ant0	-6.16	0.29	-5.87	11	Pass
NVNT	n40	5230	Ant0	-5.65	0.29	-5.36	11	Pass
NVNT	ac20	5180	Ant0	-3.27	0.15	-3.12	11	Pass
NVNT	ac20	5200	Ant0	-2.81	0.14	-2.67	11	Pass
NVNT	ac20	5240	Ant0	-3.92	0.15	-3.77	11	Pass
NVNT	ac40	5190	Ant0	-5.92	0.28	-5.64	11	Pass
NVNT	ac40	5230	Ant0	-5.7	0.28	-5.42	11	Pass
NVNT	ac80	5210	Ant0	-8.9	0.55	-8.35	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-3.6	0.13	-3.47	11	Pass
NVNT	a	5200	Ant1	-3.4	0.14	-3.26	11	Pass
NVNT	a	5240	Ant1	-4.23	0.13	-4.1	11	Pass
NVNT	n20	5180	Ant1	-4.12	0.14	-3.98	11	Pass
NVNT	n20	5200	Ant1	-3.79	0.15	-3.64	11	Pass
NVNT	n20	5240	Ant1	-4.7	0.15	-4.55	11	Pass
NVNT	n40	5190	Ant1	-5.94	0.29	-5.65	11	Pass
NVNT	n40	5230	Ant1	-7.43	0.29	-7.14	11	Pass
NVNT	ac20	5180	Ant1	-2.79	0.15	-2.64	11	Pass
NVNT	ac20	5200	Ant1	-2.52	0.14	-2.38	11	Pass
NVNT	ac20	5240	Ant1	-4.68	0.15	-4.53	11	Pass
NVNT	ac40	5190	Ant1	-5.72	0.28	-5.44	11	Pass
NVNT	ac40	5230	Ant1	-7.49	0.28	-7.21	11	Pass
NVNT	ac80	5210	Ant1	-9.53	0.55	-8.98	11	Pass



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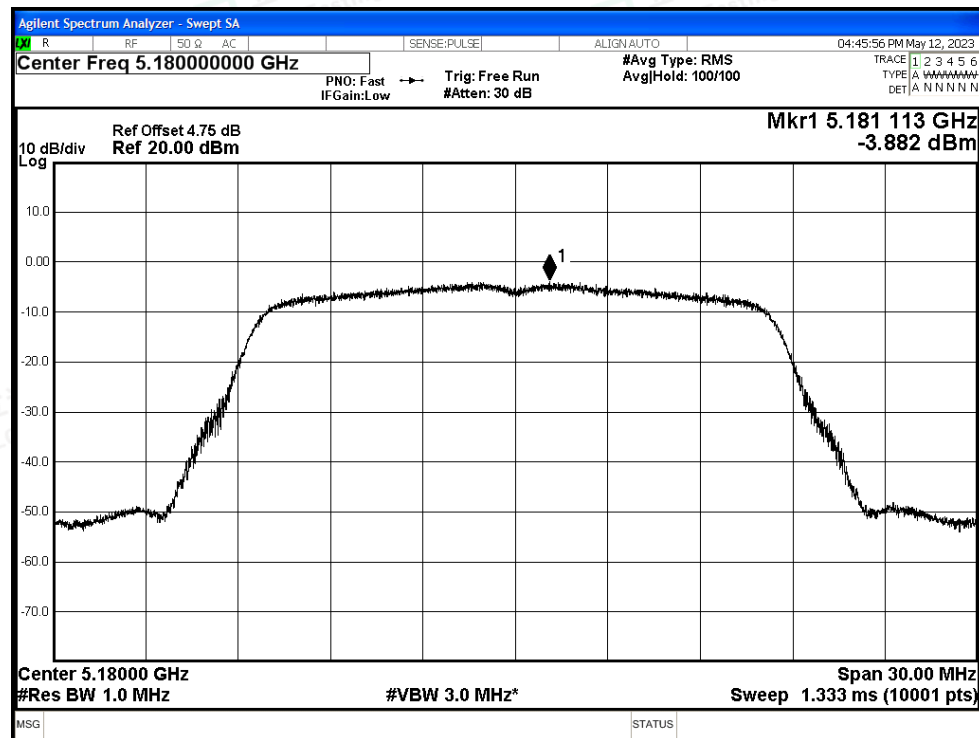
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	-3.12	-3.98	-0.52	11	Pass
NVNT	n20	5200	-3.01	-3.64	-0.30	11	Pass
NVNT	n20	5240	-3.51	-4.55	-0.99	11	Pass
NVNT	n40	5190	-5.87	-5.65	-2.75	11	Pass
NVNT	n40	5230	-5.36	-7.14	-3.15	11	Pass
NVNT	ac20	5180	-3.12	-2.64	0.14	11	Pass
NVNT	ac20	5200	-2.67	-2.38	0.49	11	Pass
NVNT	ac20	5240	-3.77	-4.53	-1.12	11	Pass
NVNT	ac40	5190	-5.64	-5.44	-2.53	11	Pass
NVNT	ac40	5230	-5.42	-7.21	-3.21	11	Pass
NVNT	ac80	5210	-8.35	-8.98	-5.64	11	Pass



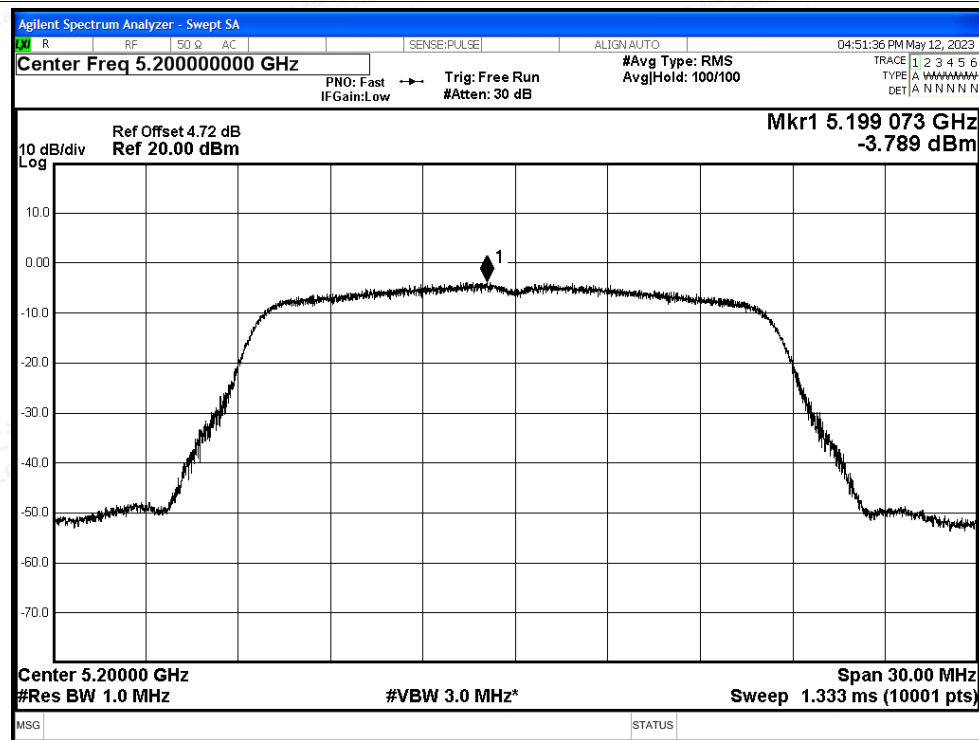


Test Graphs

PSD NVNT a 5180MHz Ant0



PSD NVNT a 5200MHz Ant0

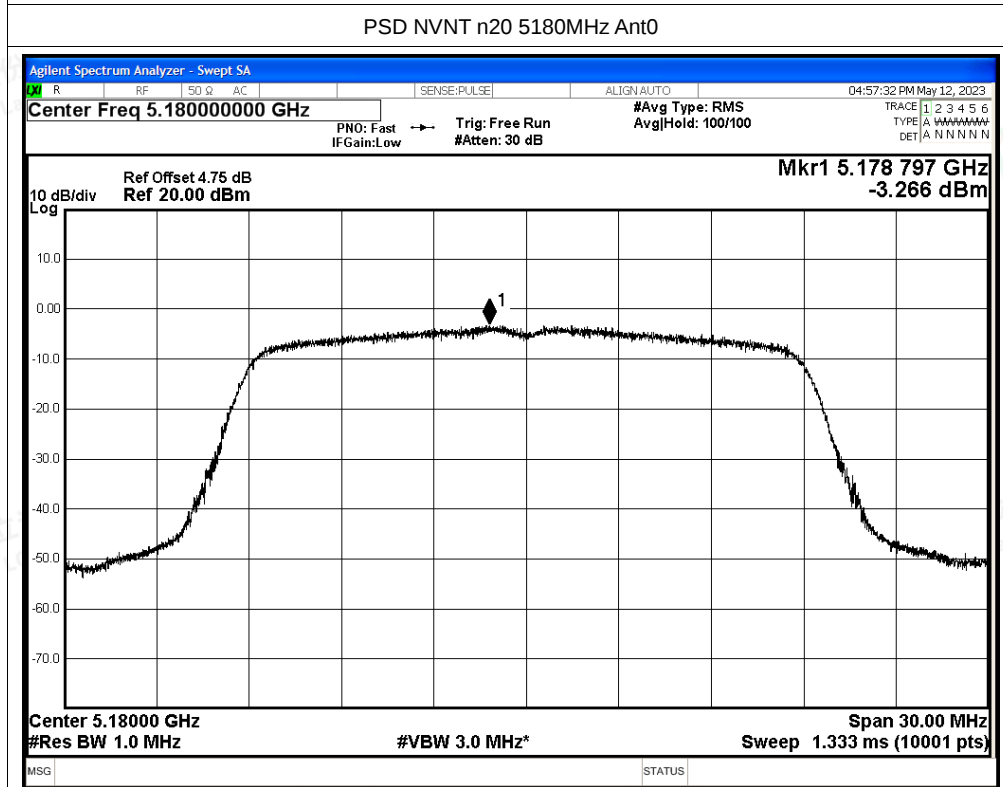
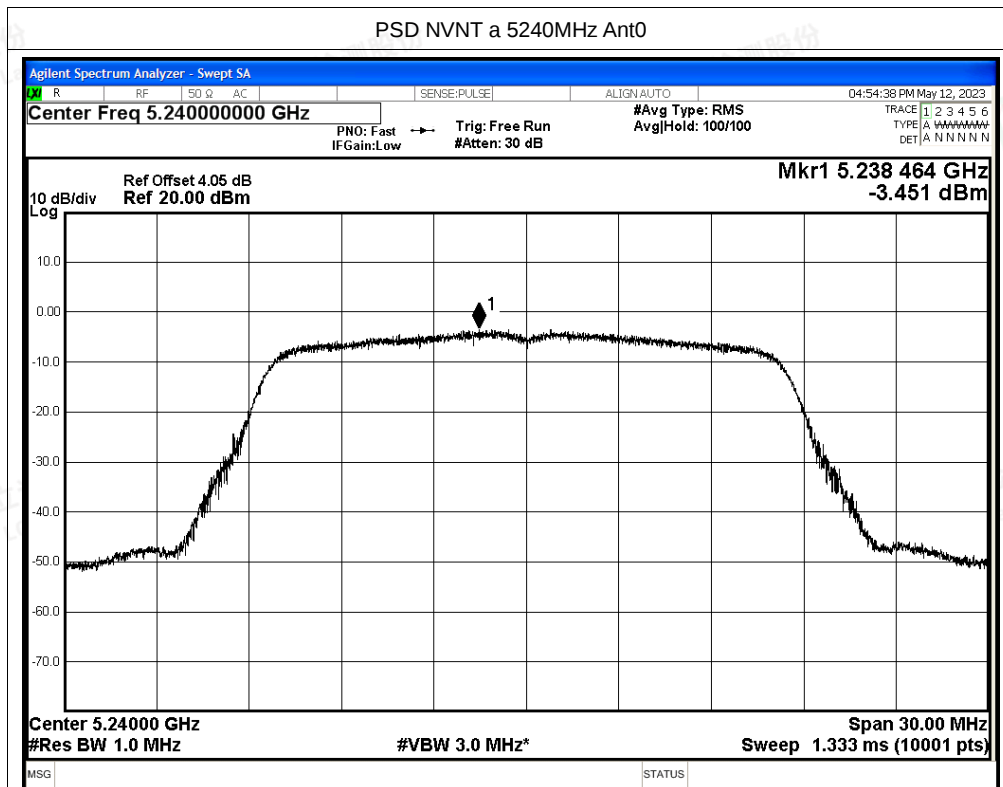


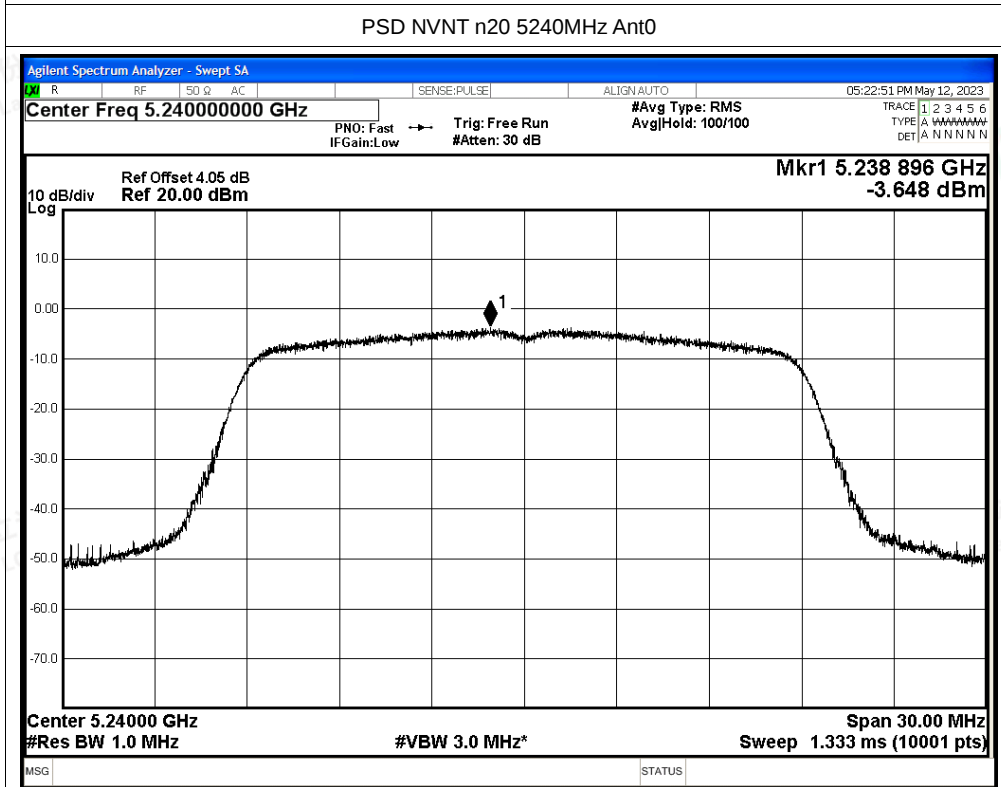
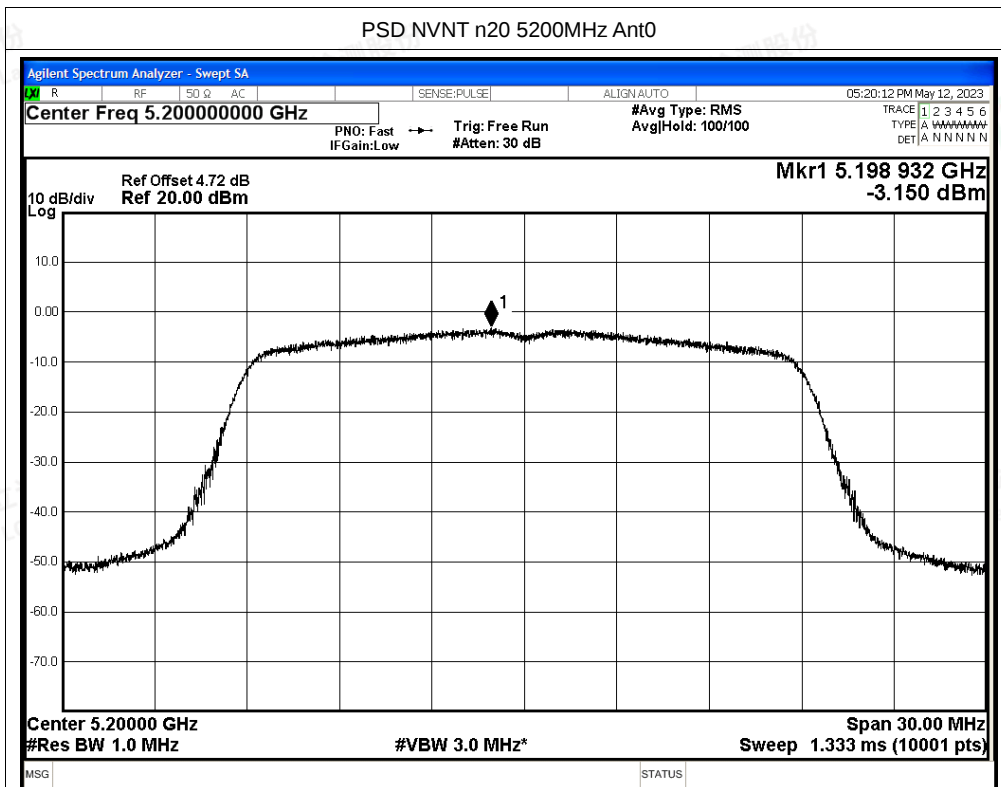
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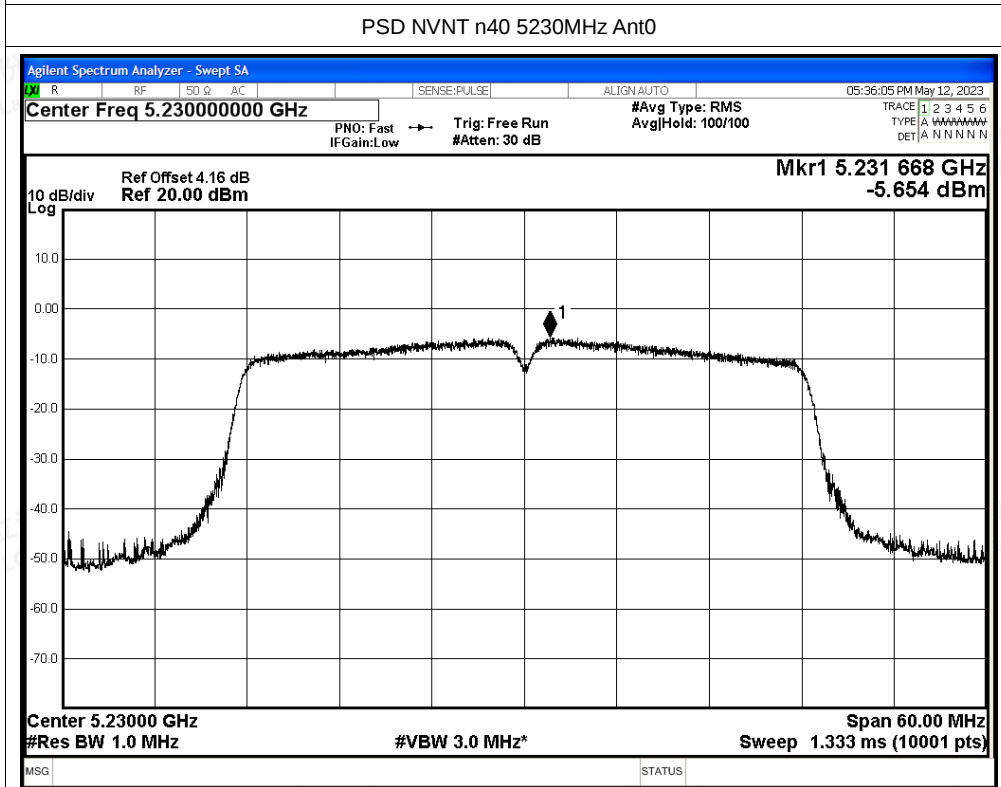
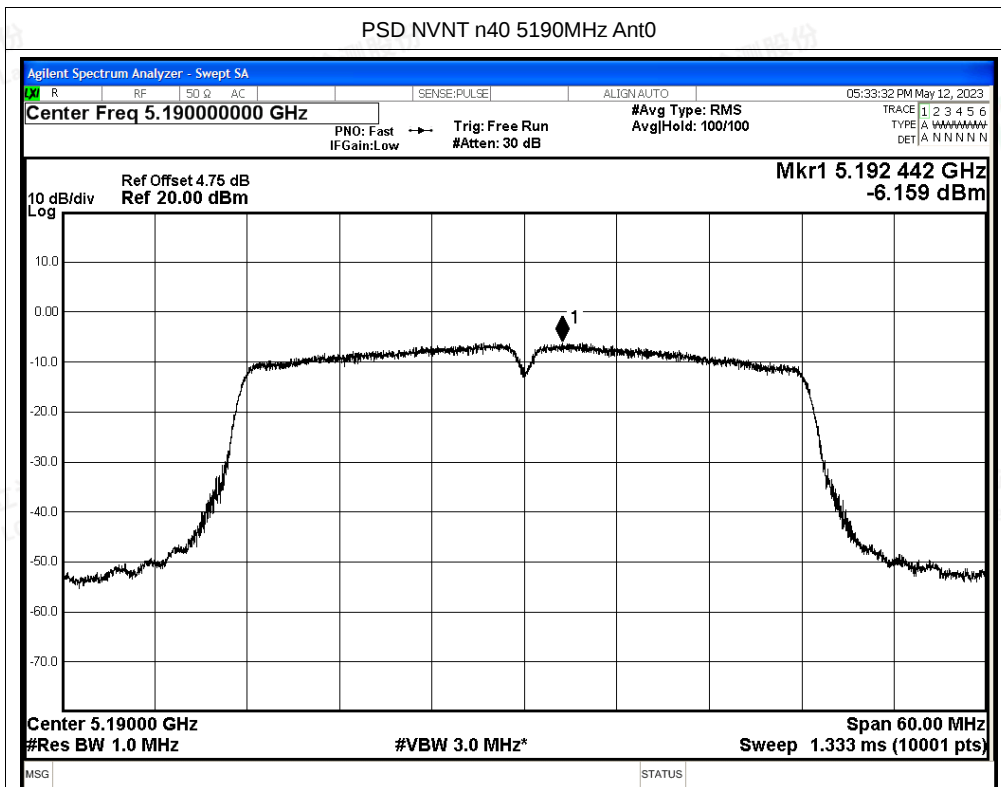
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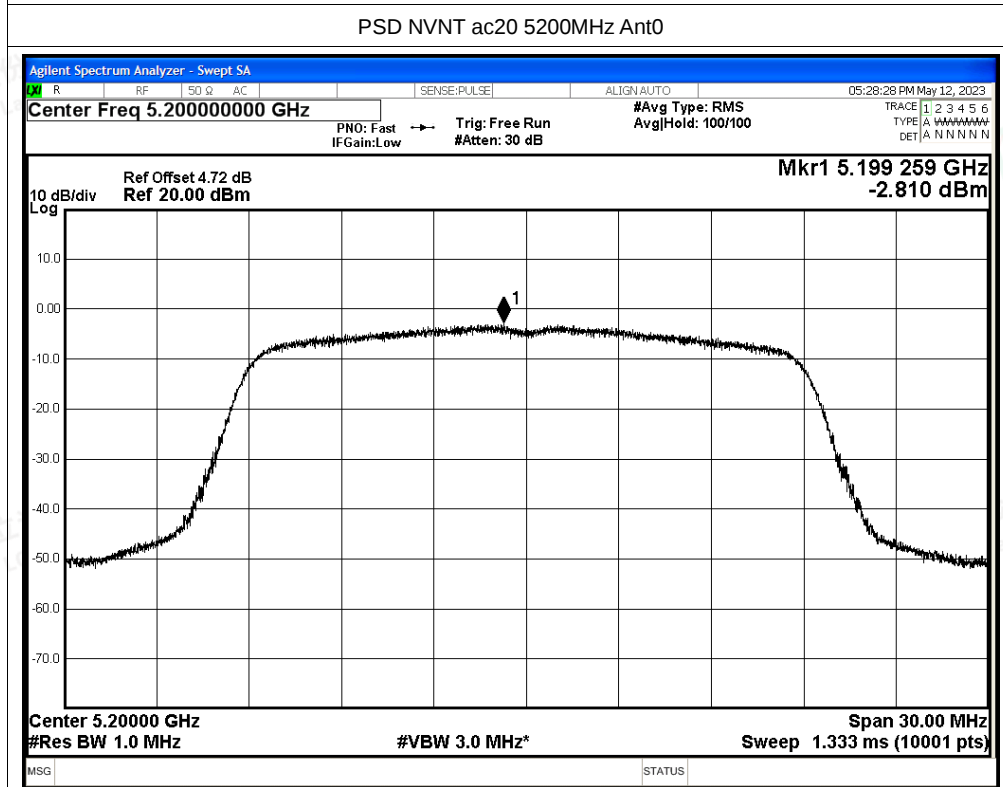
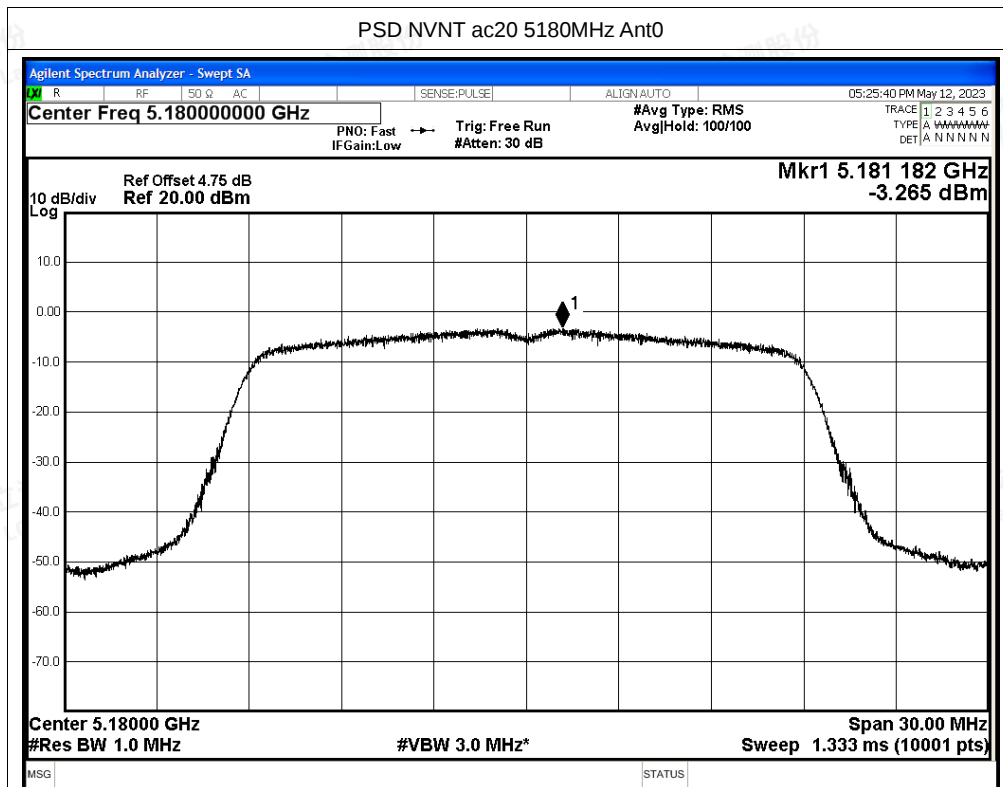
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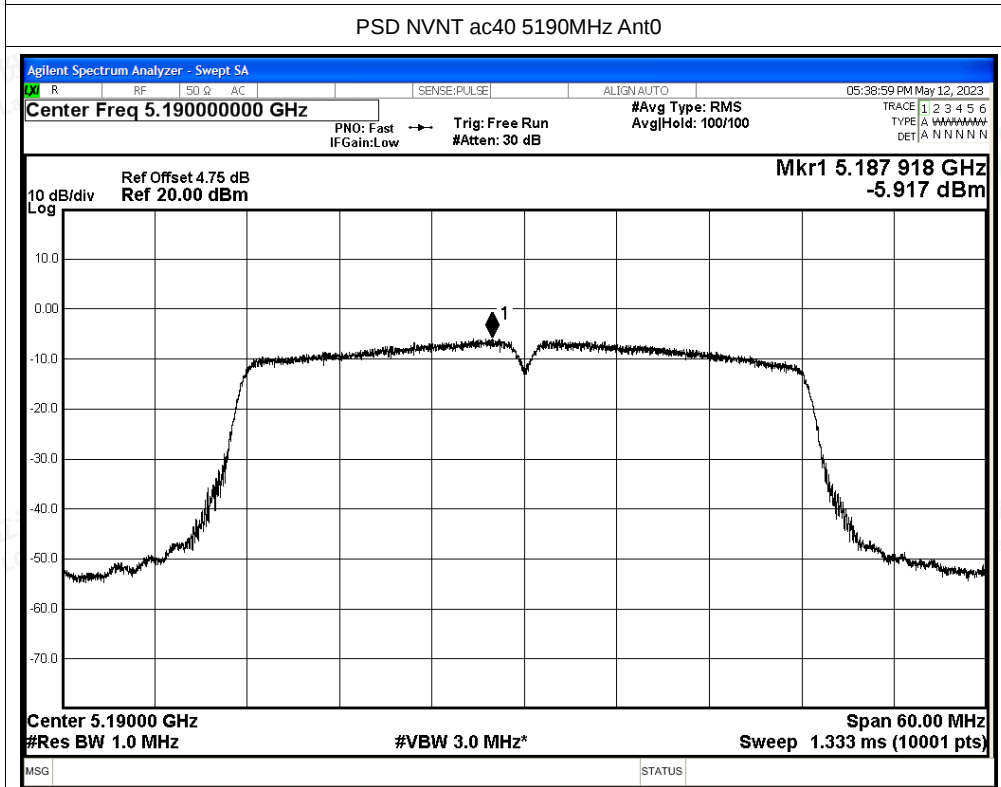
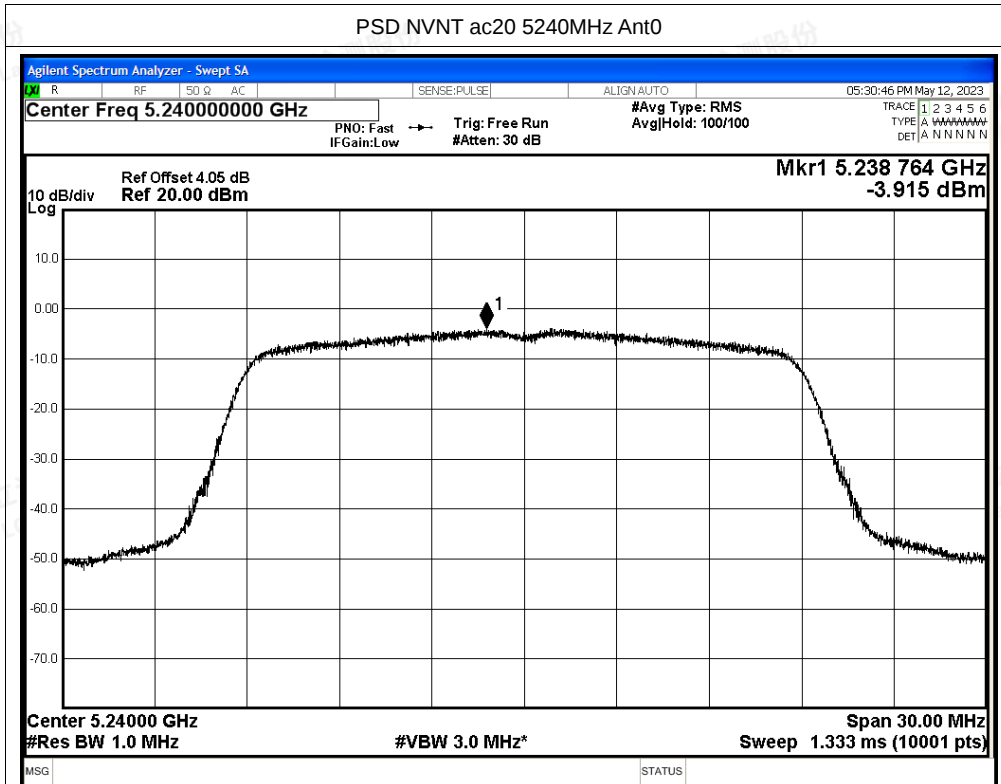
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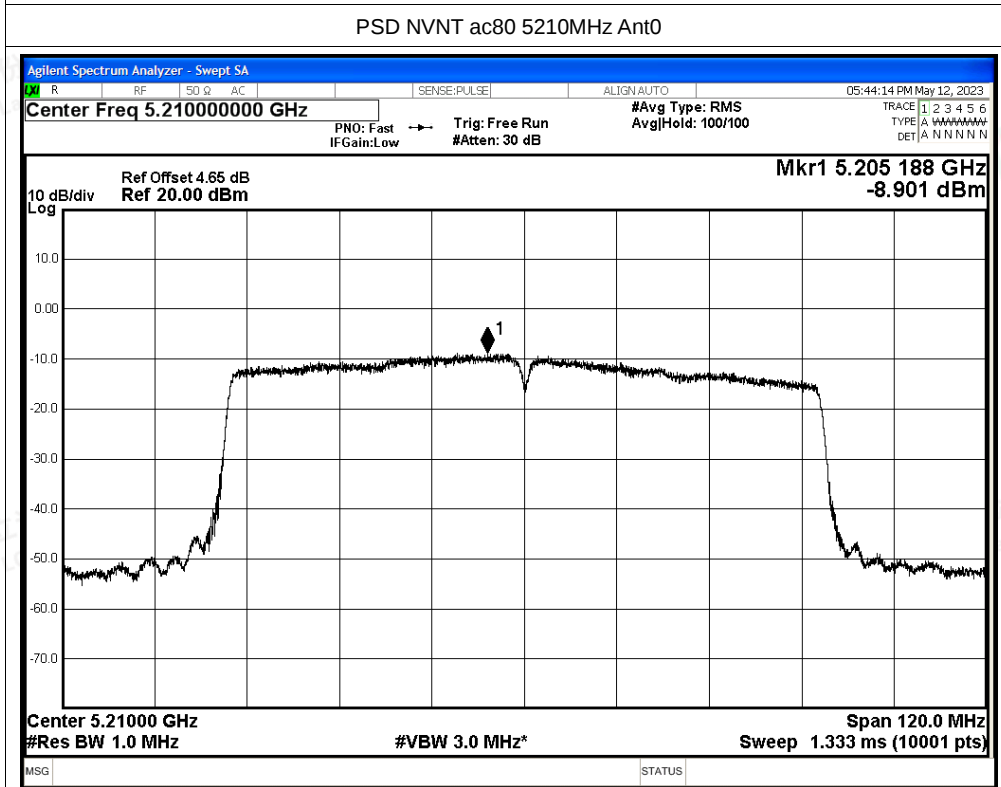
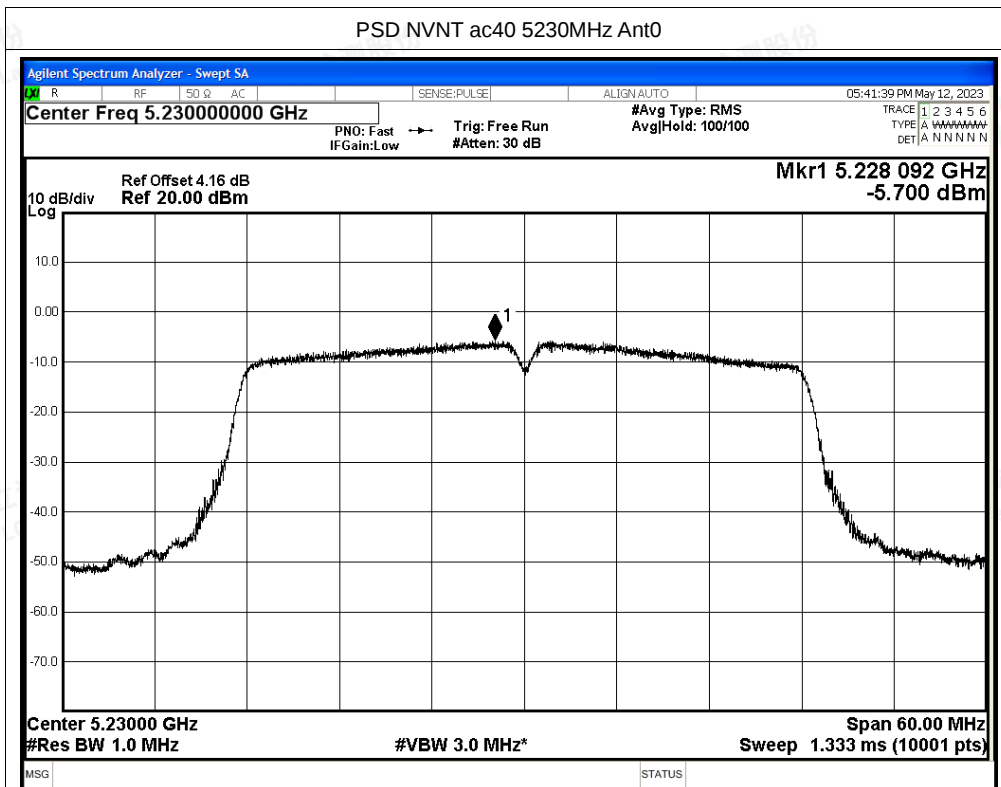


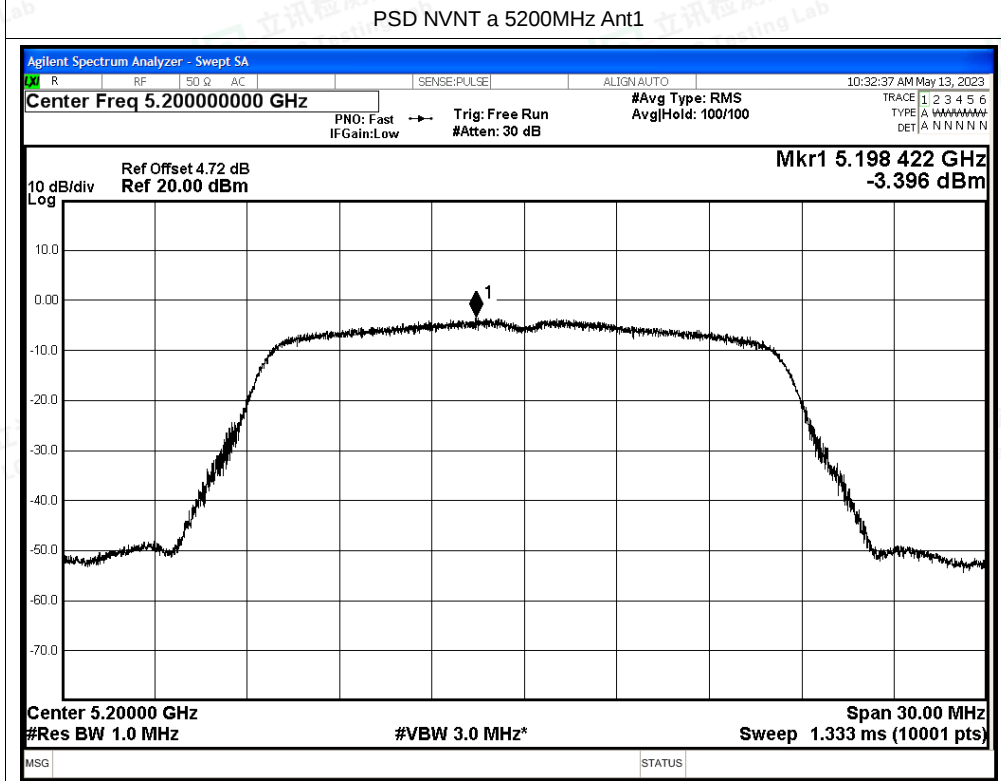
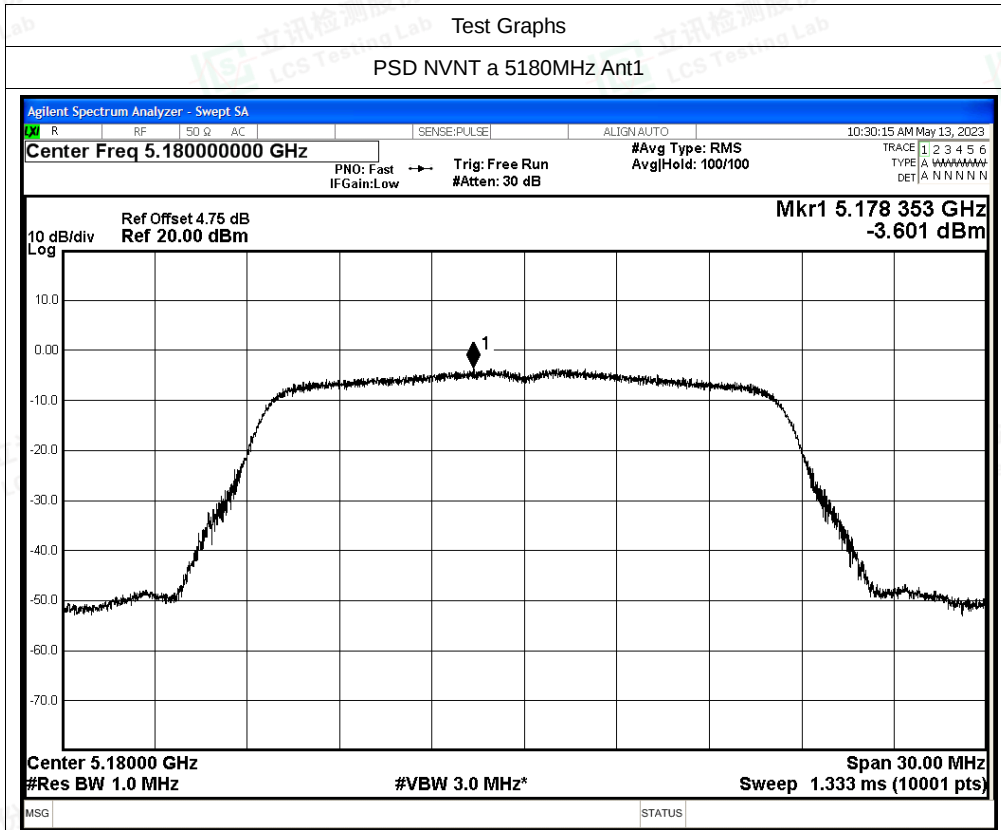


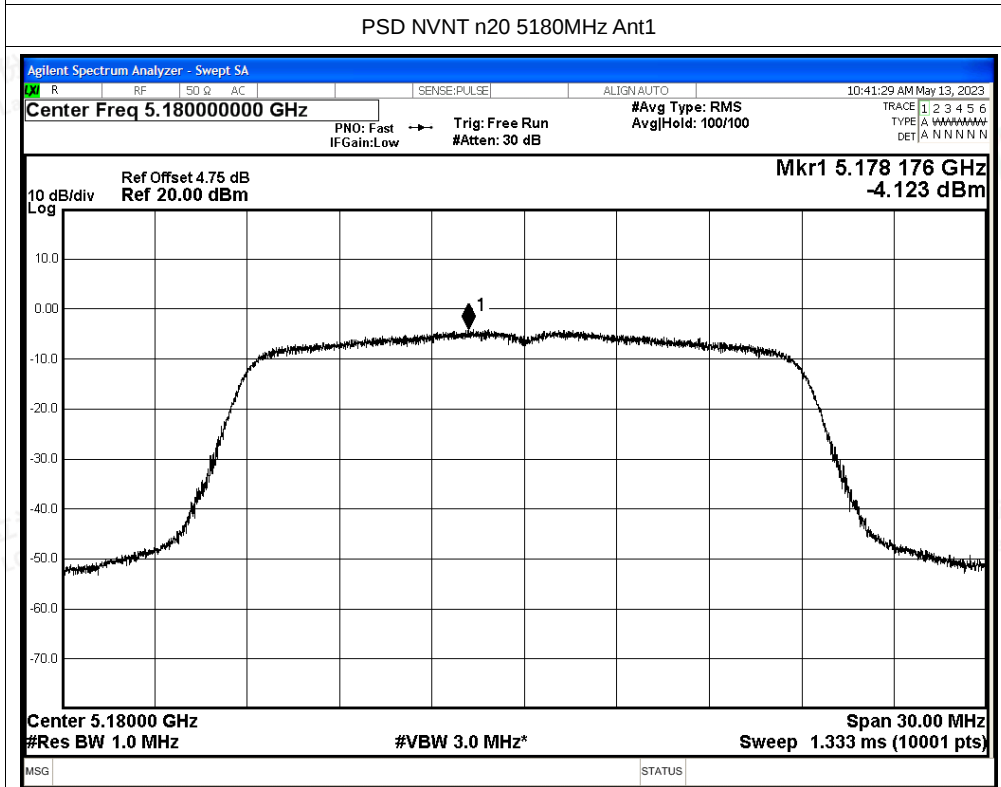
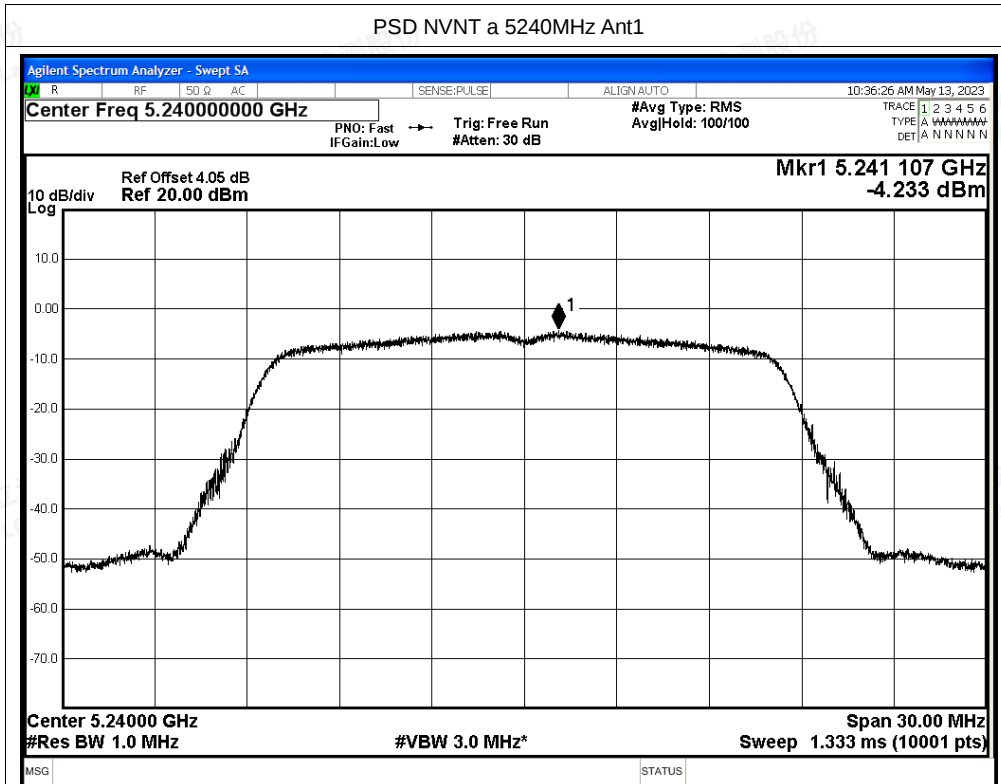


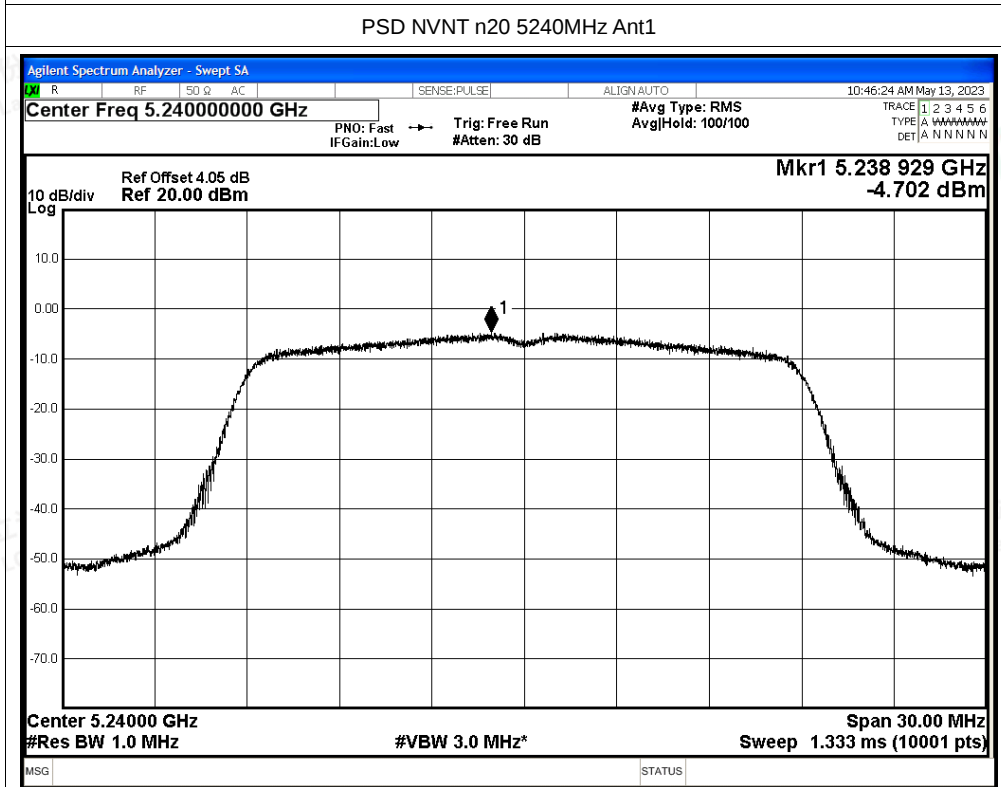
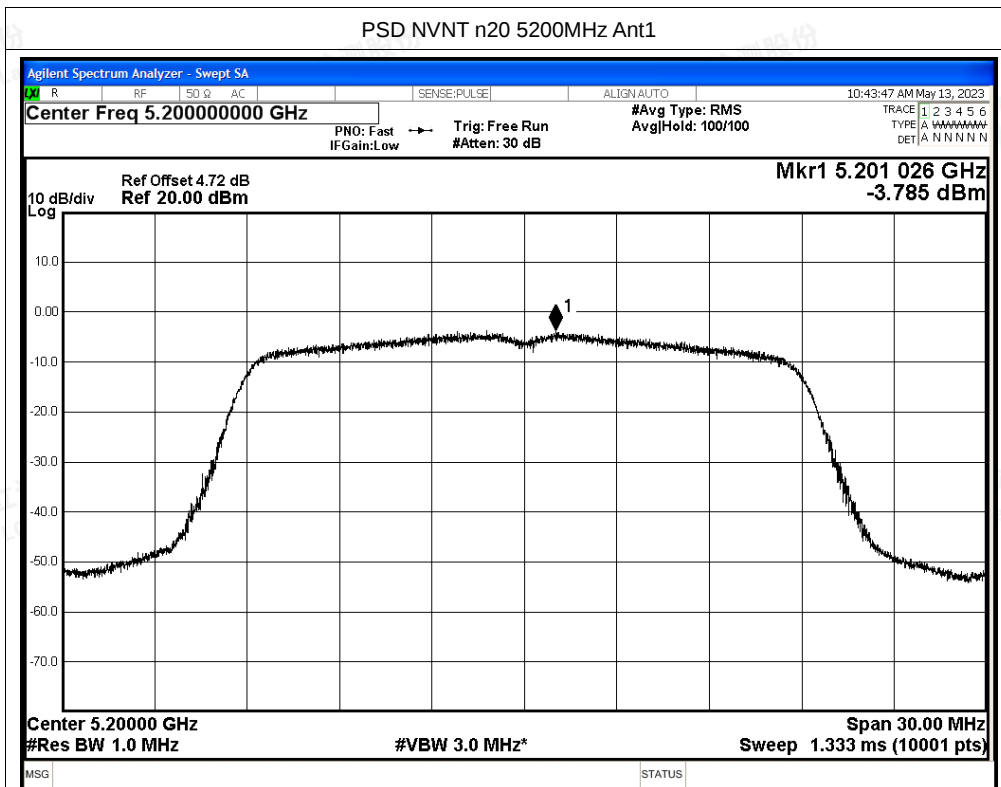


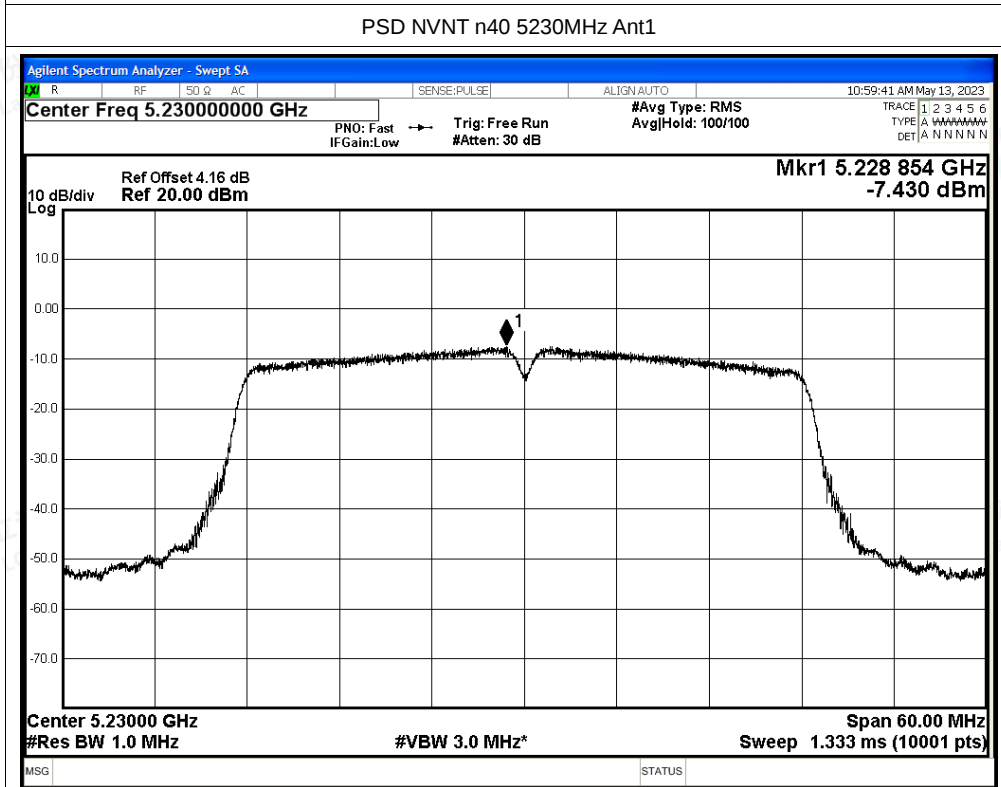
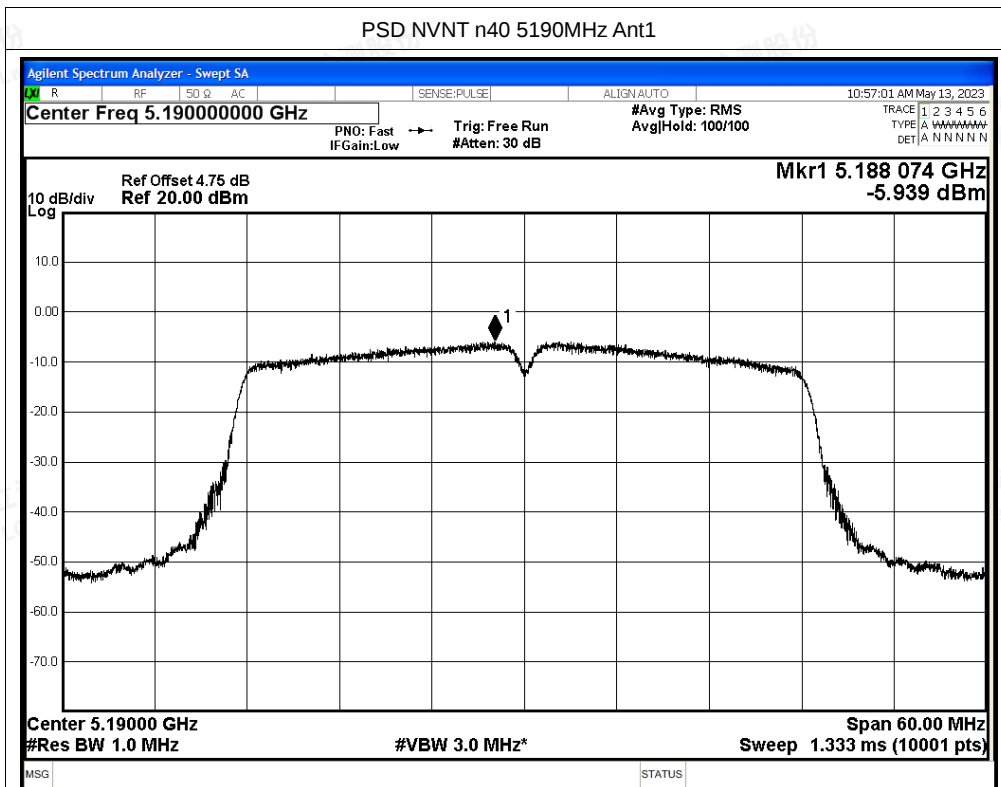


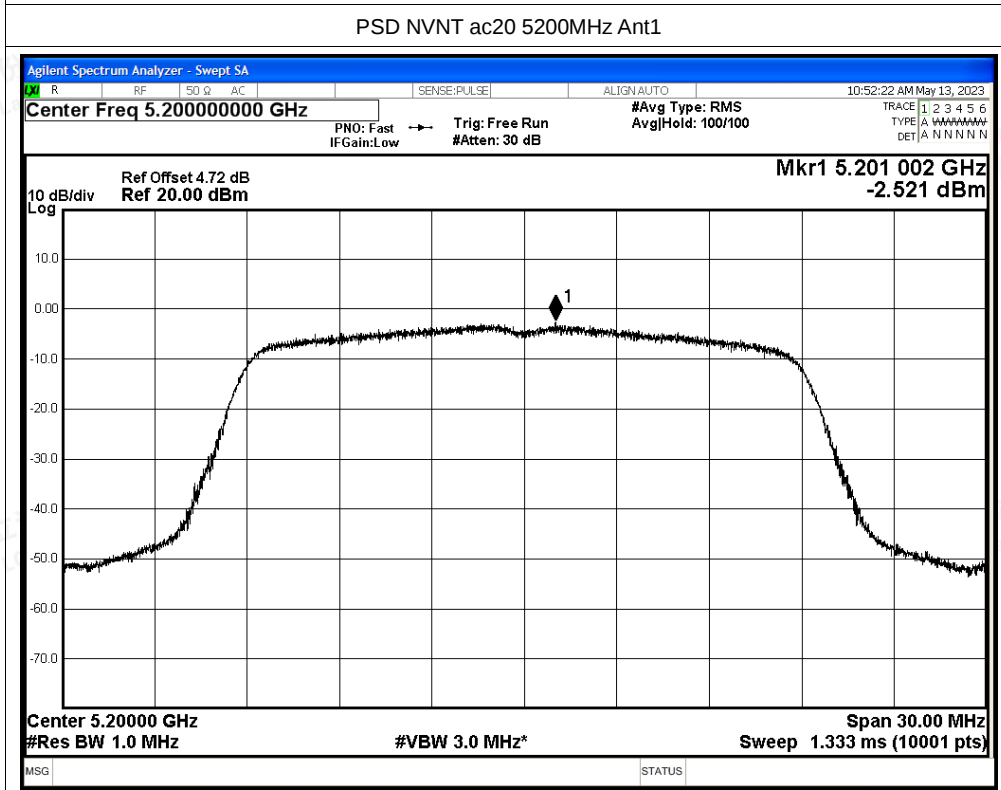
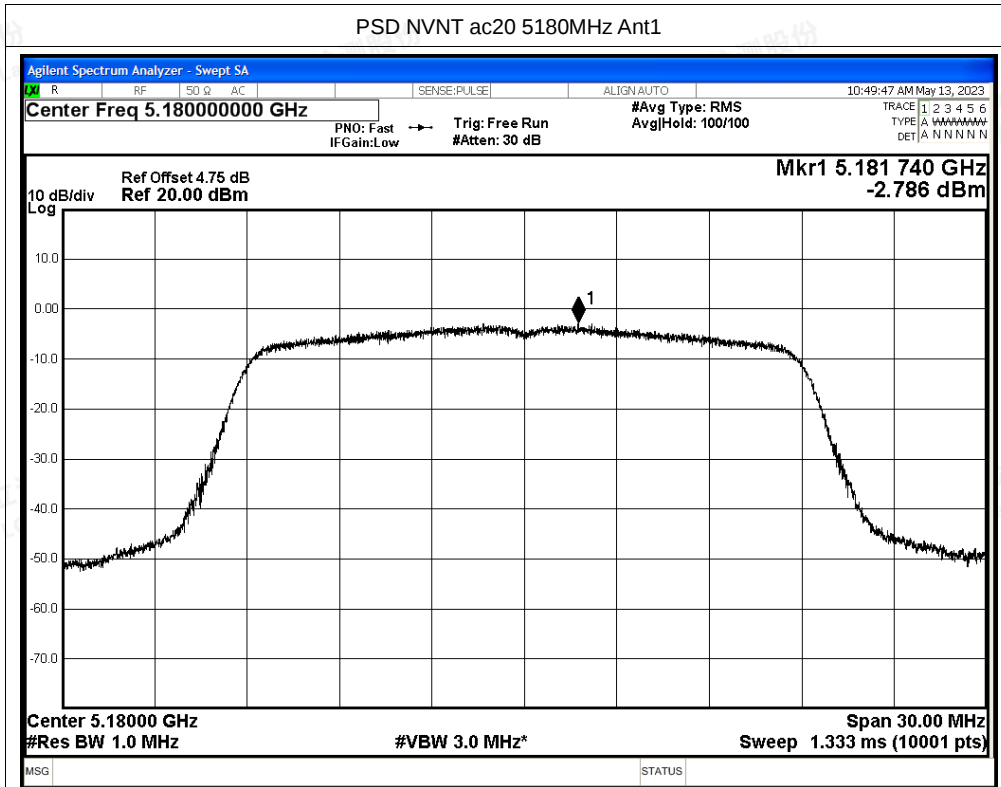


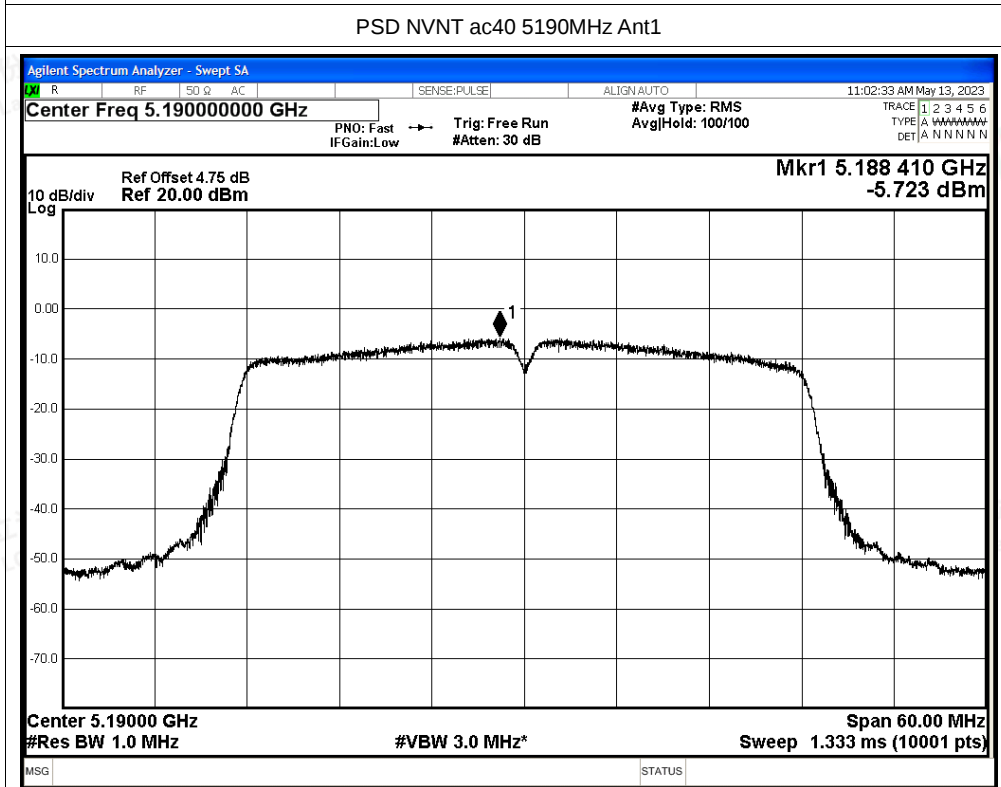
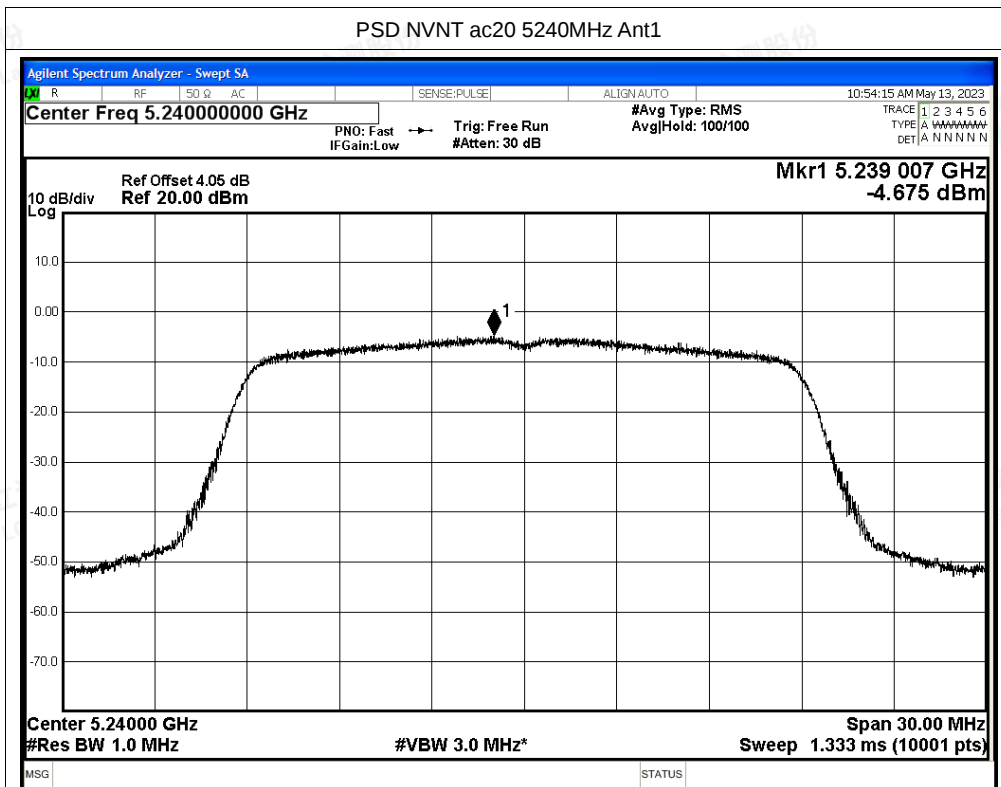


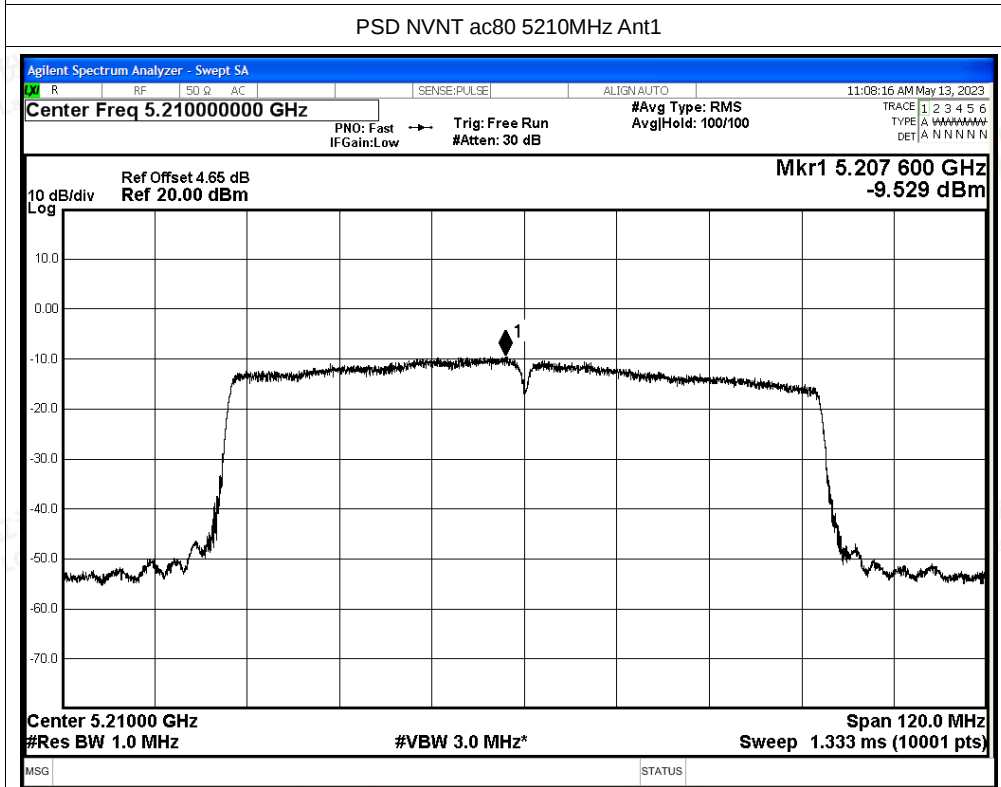
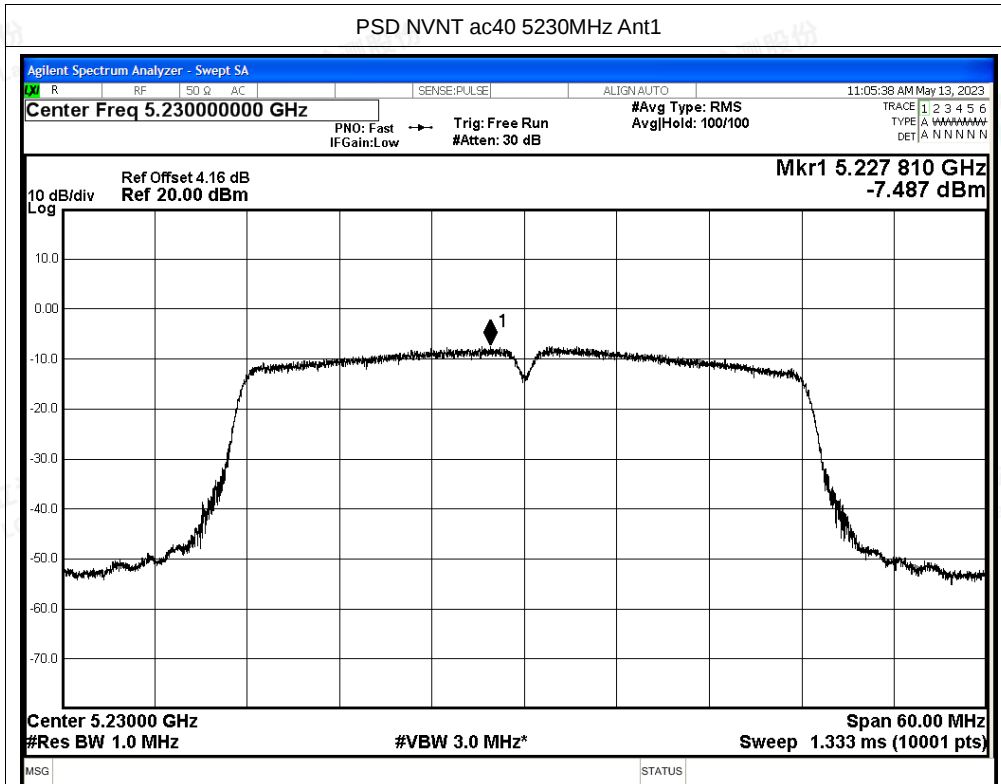














D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-48.71	1.8	48.32	Peak	68.2	Pass
NVNT	a	5180	4500	-56.34	1.8	40.69	Average	54	Pass
NVNT	a	5180	5097.8	-44.68	1.8	52.35	Peak	68.2	Pass
NVNT	a	5180	5147.5	-53.58	1.8	43.45	Average	54	Pass
NVNT	a	5180	5150	-45.38	1.8	51.65	Peak	68.2	Pass
NVNT	a	5180	5150	-53.61	1.8	43.42	Average	54	Pass
NVNT	a	5240	5350	-49.26	1.8	47.77	Peak	68.2	Pass
NVNT	a	5240	5350	-55.65	1.8	41.38	Average	54	Pass
NVNT	a	5240	5434.08	-46.35	1.8	50.68	Peak	68.2	Pass
NVNT	a	5240	5363.28	-55.41	1.8	41.62	Average	54	Pass
NVNT	a	5240	5460	-49.16	1.8	47.87	Peak	68.2	Pass
NVNT	a	5240	5460	-56.05	1.8	40.98	Average	54	Pass
NVNT	n20mimo	5180	4500	-49.35	4.81	50.69	Peak	68.2	Pass
NVNT	n20mimo	5180	4500	-56.23	4.81	43.81	Average	54	Pass
NVNT	n20mimo	5180	5138.4	-44.21	4.81	55.83	Peak	68.2	Pass
NVNT	n20mimo	5180	5134.9	-53.53	4.81	46.51	Average	54	Pass
NVNT	n20mimo	5180	5150	-47.36	4.81	52.68	Peak	68.2	Pass
NVNT	n20mimo	5180	5150	-53.57	4.81	46.47	Average	54	Pass
NVNT	n20mimo	5240	5350	-49.34	4.81	50.70	Peak	68.2	Pass
NVNT	n20mimo	5240	5350	-55.47	4.81	44.57	Average	54	Pass
NVNT	n20mimo	5240	5446.8	-45.78	4.81	54.26	Peak	68.2	Pass
NVNT	n20mimo	5240	5360.4	-55.36	4.81	44.68	Average	54	Pass
NVNT	n20mimo	5240	5460	-48.97	4.81	51.07	Peak	68.2	Pass
NVNT	n20mimo	5240	5460	-55.99	4.81	44.05	Average	54	Pass
NVNT	n40mimo	5190	4500	-50.06	4.81	49.98	Peak	68.2	Pass
NVNT	n40mimo	5190	4500	-56.15	4.81	43.89	Average	54	Pass
NVNT	n40mimo	5190	5015.38	-43.75	4.81	56.29	Peak	68.2	Pass
NVNT	n40mimo	5190	5149.7	-52.87	4.81	47.17	Average	54	Pass
NVNT	n40mimo	5190	5150	-46.36	4.81	53.68	Peak	68.2	Pass
NVNT	n40mimo	5190	5150	-52.87	4.81	47.17	Average	54	Pass
NVNT	n40mimo	5230	5350	-48.52	4.81	51.52	Peak	68.2	Pass
NVNT	n40mimo	5230	5350	-54.92	4.81	45.12	Average	54	Pass
NVNT	n40mimo	5230	5452.98	-45.39	4.81	54.65	Peak	68.2	Pass
NVNT	n40mimo	5230	5352	-54.9	4.81	45.14	Average	54	Pass
NVNT	n40mimo	5230	5460	-48.58	4.81	51.46	Peak	68.2	Pass
NVNT	n40mimo	5230	5460	-55.79	4.81	44.25	Average	54	Pass
NVNT	ac20mimo	5180	4500	-50.91	4.81	49.13	Peak	68.2	Pass
NVNT	ac20mimo	5180	4500	-56.22	4.81	43.82	Average	54	Pass



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NVNT	ac20mimo	5180	5134.9	-44.58	4.81	55.46	Peak	68.2	Pass
NVNT	ac20mimo	5180	5135.6	-53.52	4.81	46.52	Average	54	Pass
NVNT	ac20mimo	5180	5150	-45.19	4.81	54.85	Peak	68.2	Pass
NVNT	ac20mimo	5180	5150	-53.65	4.81	46.39	Average	54	Pass
NVNT	ac20mimo	5240	5350	-49.35	4.81	50.69	Peak	68.2	Pass
NVNT	ac20mimo	5240	5350	-55.55	4.81	44.49	Average	54	Pass
NVNT	ac20mimo	5240	5443.68	-45.97	4.81	54.07	Peak	68.2	Pass
NVNT	ac20mimo	5240	5364.24	-55.44	4.81	44.60	Average	54	Pass
NVNT	ac20mimo	5240	5460	-48.07	4.81	51.97	Peak	68.2	Pass
NVNT	ac20mimo	5240	5460	-56.06	4.81	43.98	Average	54	Pass
NVNT	ac40mimo	5190	4500	-50.53	4.81	49.51	Peak	68.2	Pass
NVNT	ac40mimo	5190	4500	-56.05	4.81	43.99	Average	54	Pass
NVNT	ac40mimo	5190	5078.89	-44.53	4.81	55.51	Peak	68.2	Pass
NVNT	ac40mimo	5190	5148.97	-52.88	4.81	47.16	Average	54	Pass
NVNT	ac40mimo	5190	5150	-45.85	4.81	54.19	Peak	68.2	Pass
NVNT	ac40mimo	5190	5150	-52.98	4.81	47.06	Average	54	Pass
NVNT	ac40mimo	5230	5350	-48.35	4.81	51.69	Peak	68.2	Pass
NVNT	ac40mimo	5230	5350	-55.07	4.81	44.97	Average	54	Pass
NVNT	ac40mimo	5230	5364.42	-45.96	4.81	54.08	Peak	68.2	Pass
NVNT	ac40mimo	5230	5361.18	-54.85	4.81	45.19	Average	54	Pass
NVNT	ac40mimo	5230	5460	-48.82	4.81	51.22	Peak	68.2	Pass
NVNT	ac40mimo	5230	5460	-55.79	4.81	44.25	Average	54	Pass
NVNT	ac80mimo	5210	5350	-47.53	4.81	52.51	Peak	68.2	Pass
NVNT	ac80mimo	5210	5350	-55.06	4.81	44.98	Average	54	Pass
NVNT	ac80mimo	5210	5452.74	-45.75	4.81	54.29	Peak	68.2	Pass
NVNT	ac80mimo	5210	5357.37	-54.28	4.81	45.76	Average	54	Pass
NVNT	ac80mimo	5210	5460	-48.28	4.81	51.76	Peak	68.2	Pass
NVNT	ac80mimo	5210	5460	-55.18	4.81	44.86	Average	54	Pass
NVNT	ac80mimo	5210	4500	-47.15	4.81	52.89	Peak	68.2	Pass
NVNT	ac80mimo	5210	4500	-55.52	4.81	44.52	Average	54	Pass
NVNT	ac80mimo	5210	5135.16	-42.56	4.81	57.48	Peak	68.2	Pass
NVNT	ac80mimo	5210	5139.9	-49.24	4.81	50.80	Average	54	Pass
NVNT	ac80mimo	5210	5150	-42.36	4.81	57.68	Peak	68.2	Pass
NVNT	ac80mimo	5210	5150	-49.71	4.81	50.33	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna data.

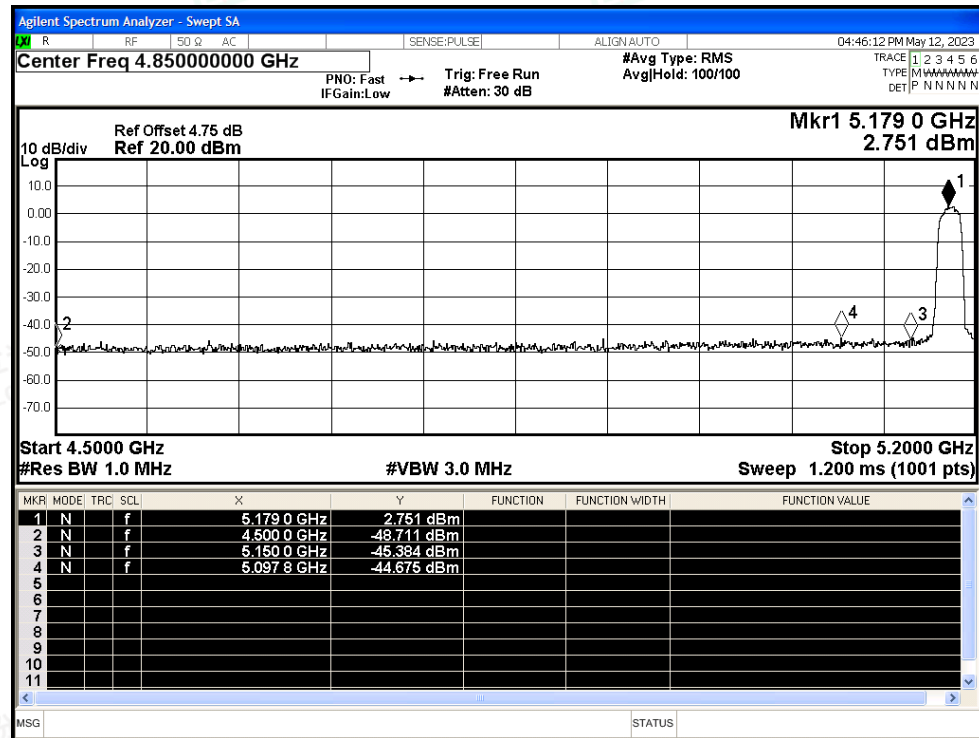


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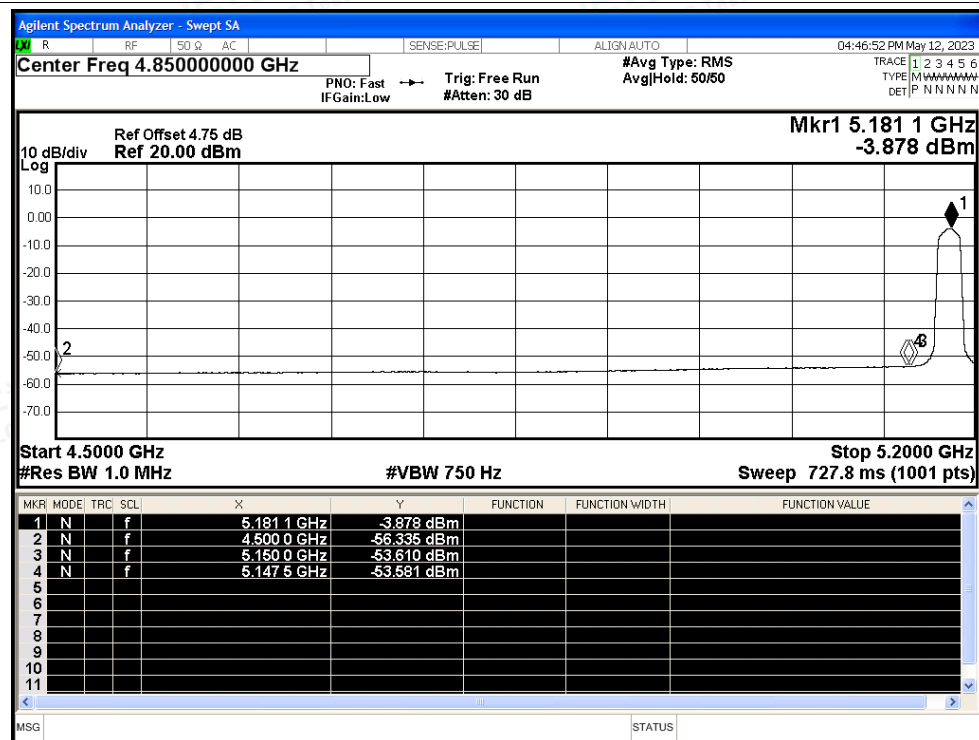


Test Graphs

Restrict Band NVNT a 5180MHz Peak



Restrict Band NVNT a 5180MHz Average

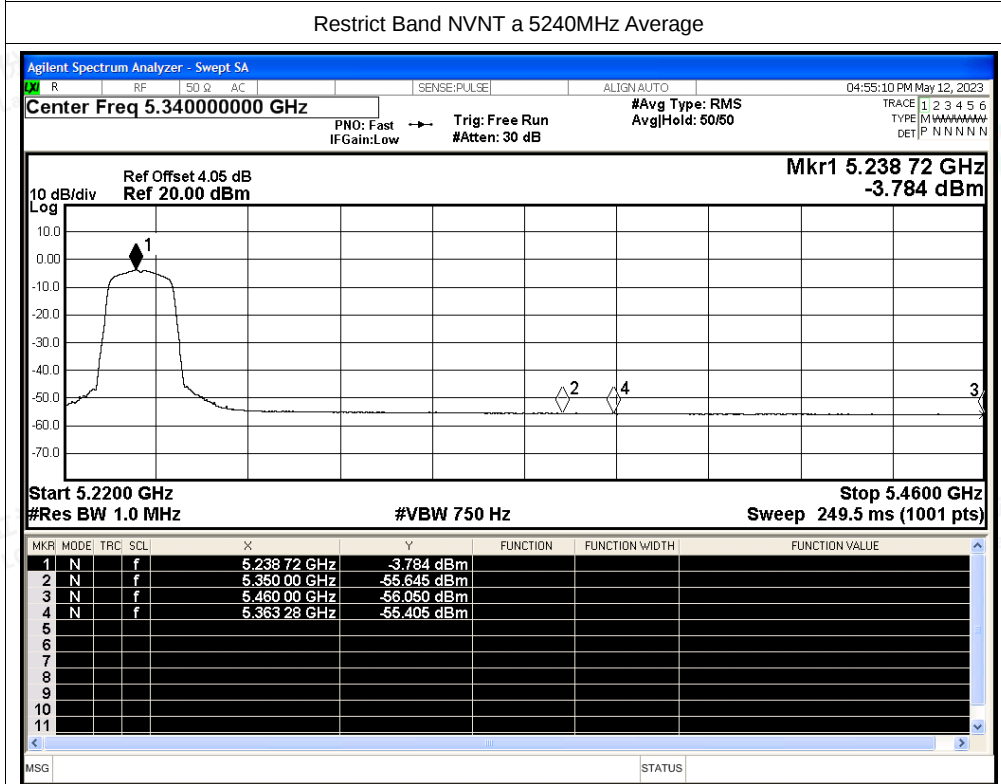
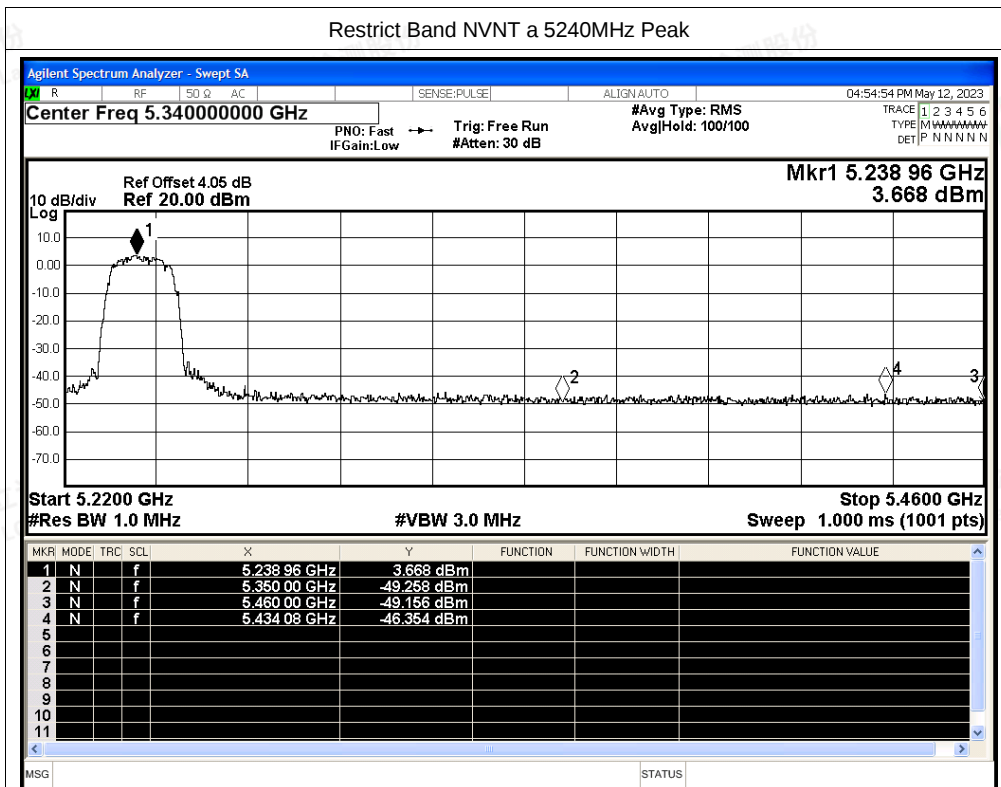


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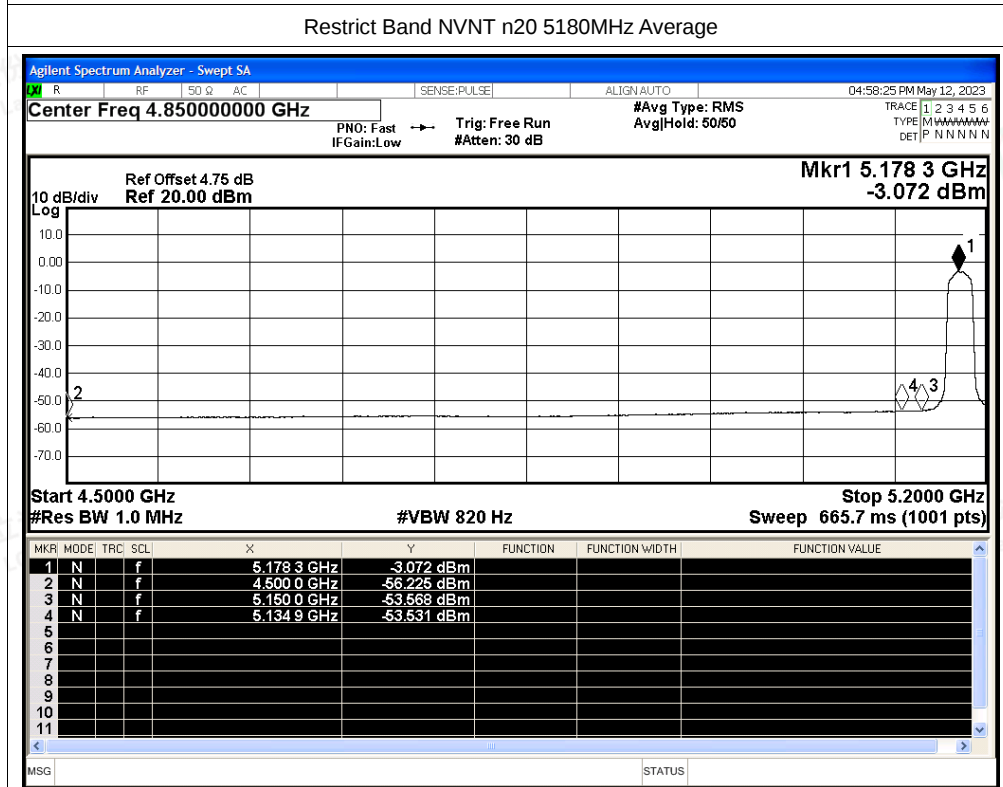
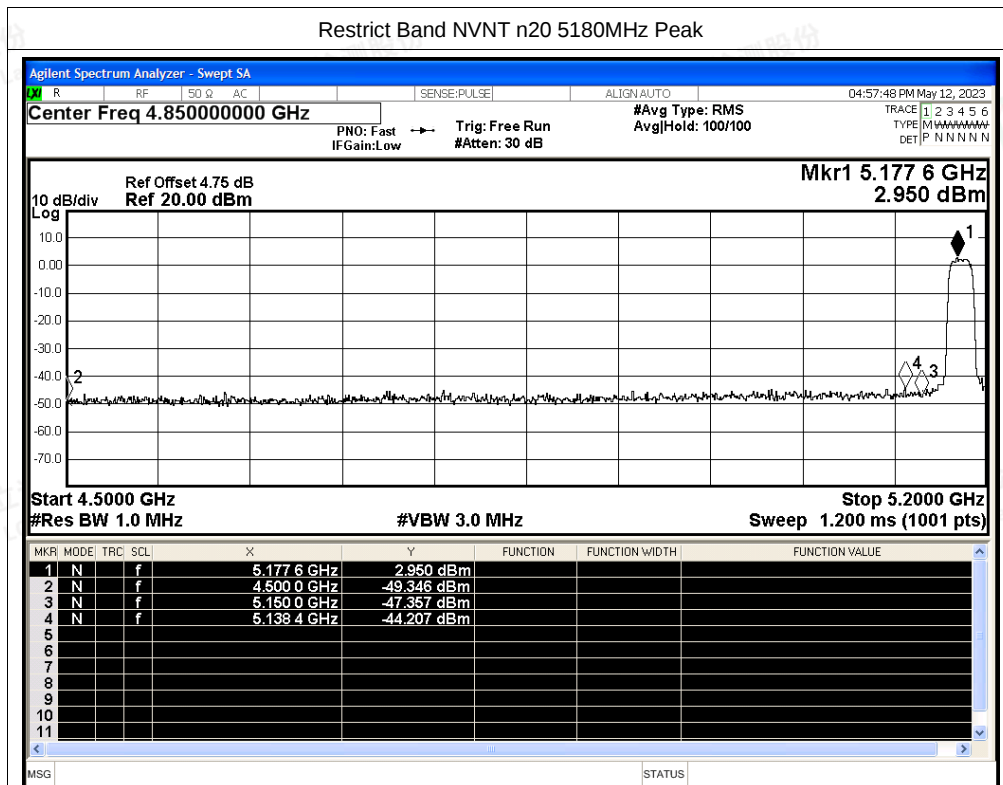


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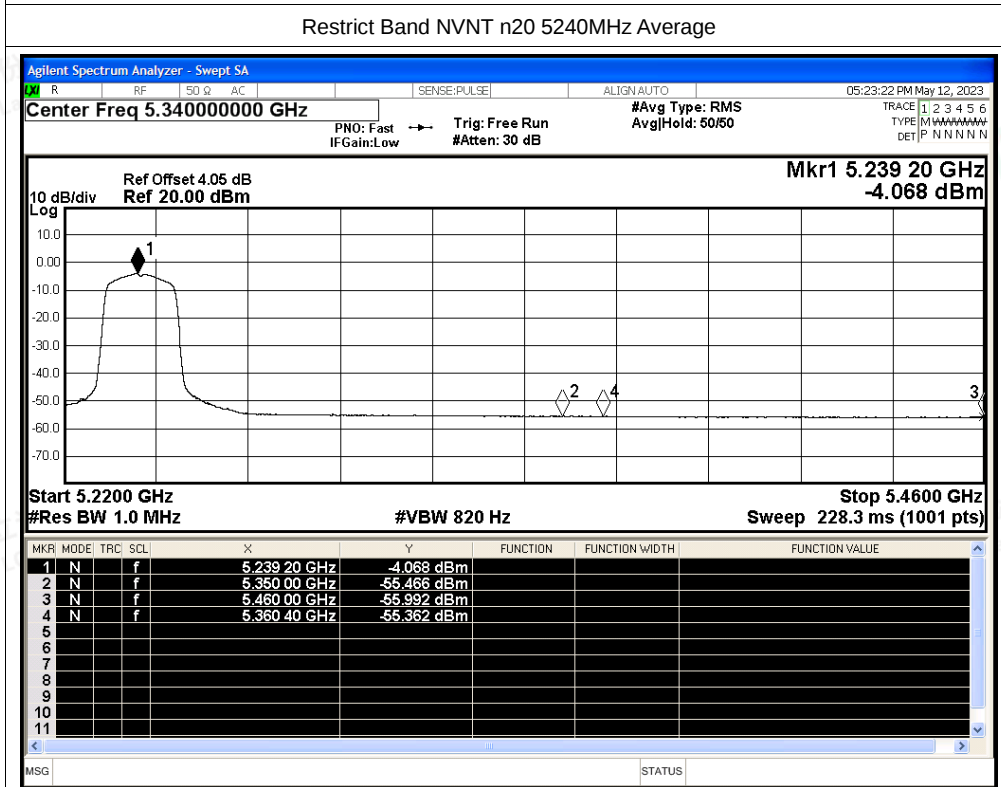
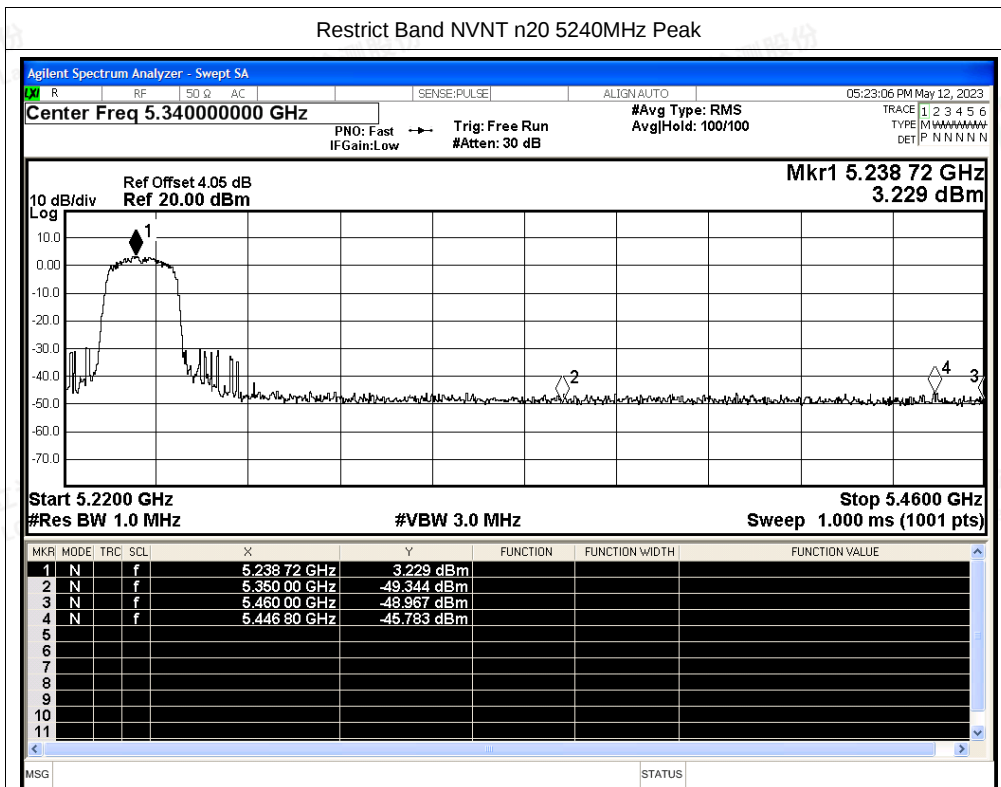


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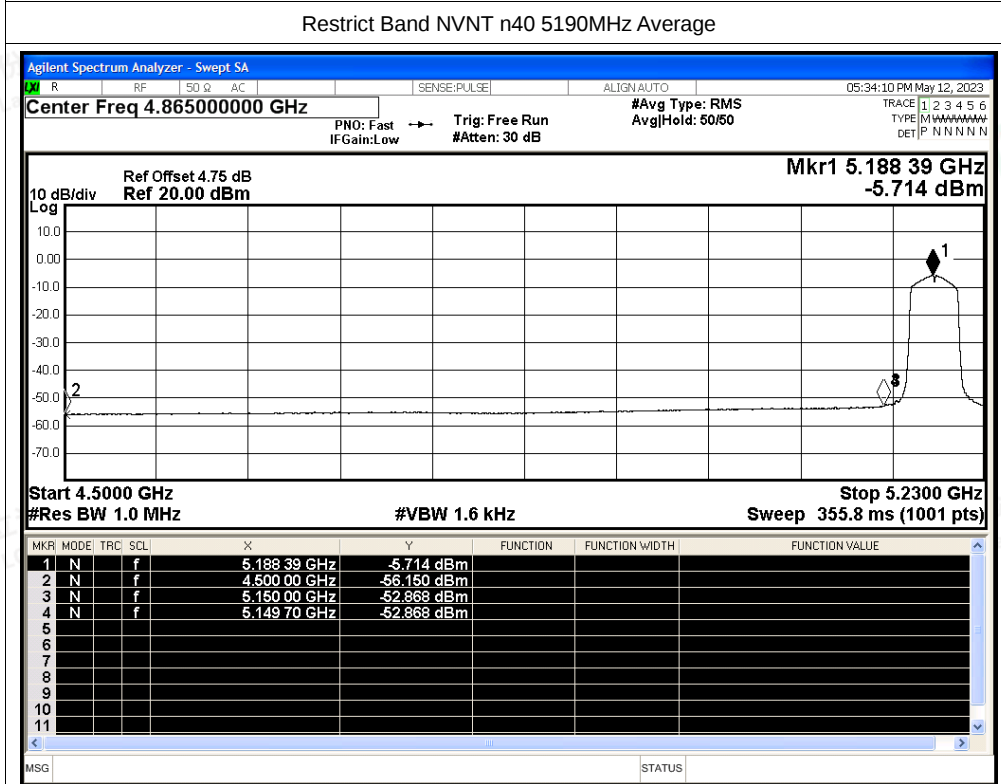
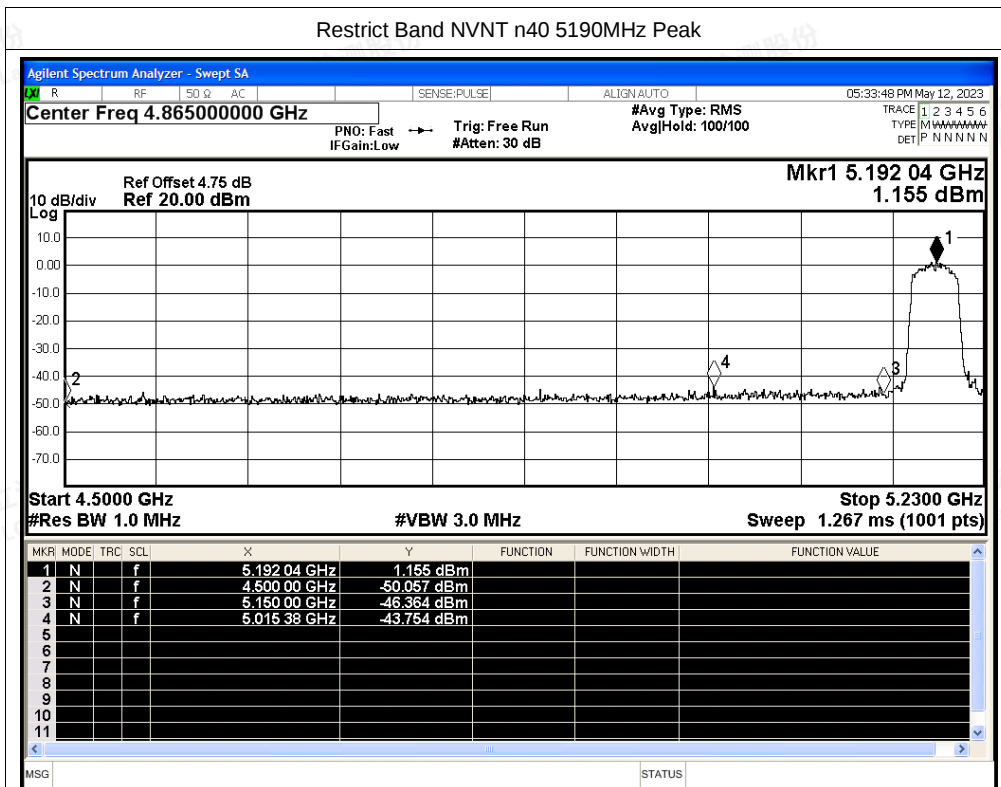


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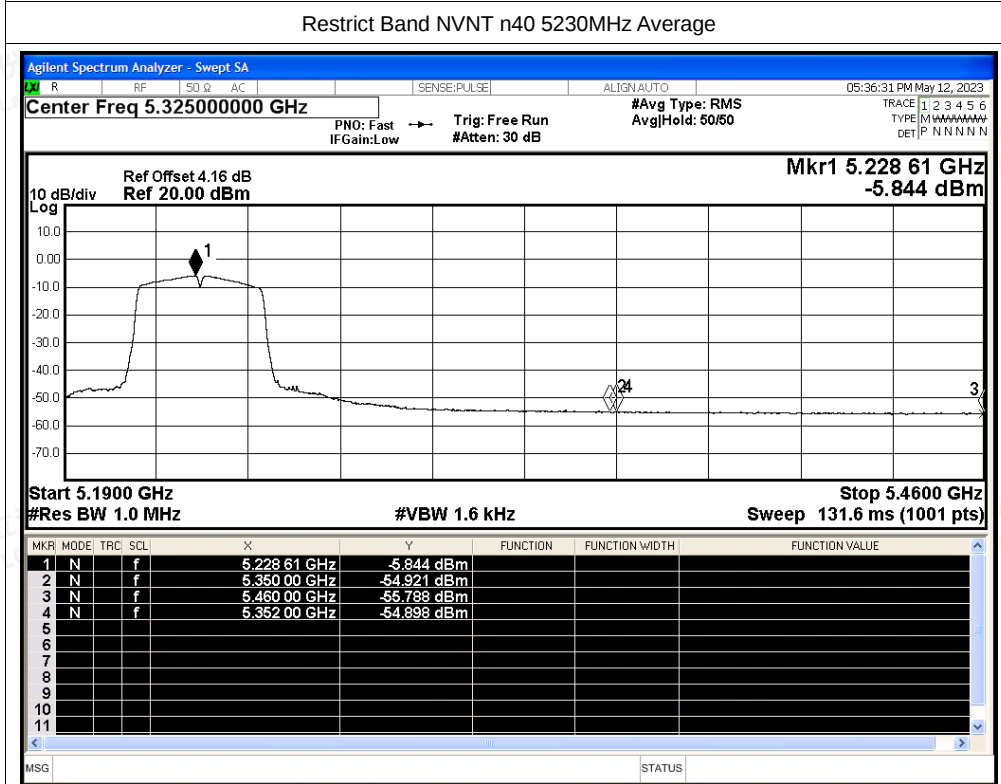
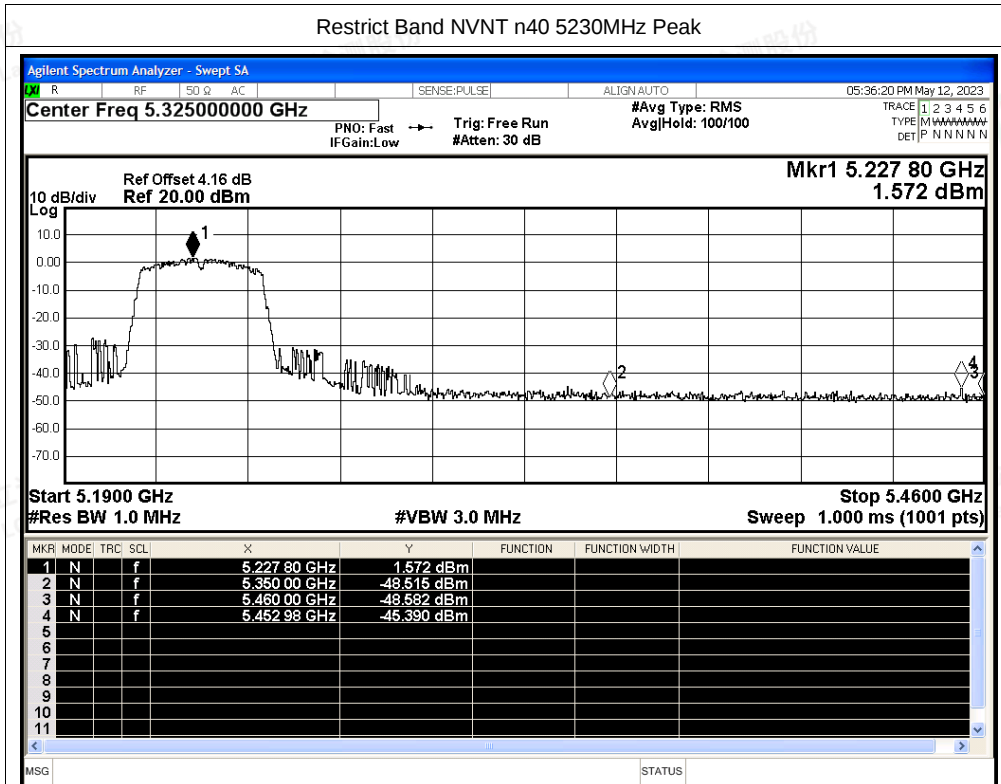


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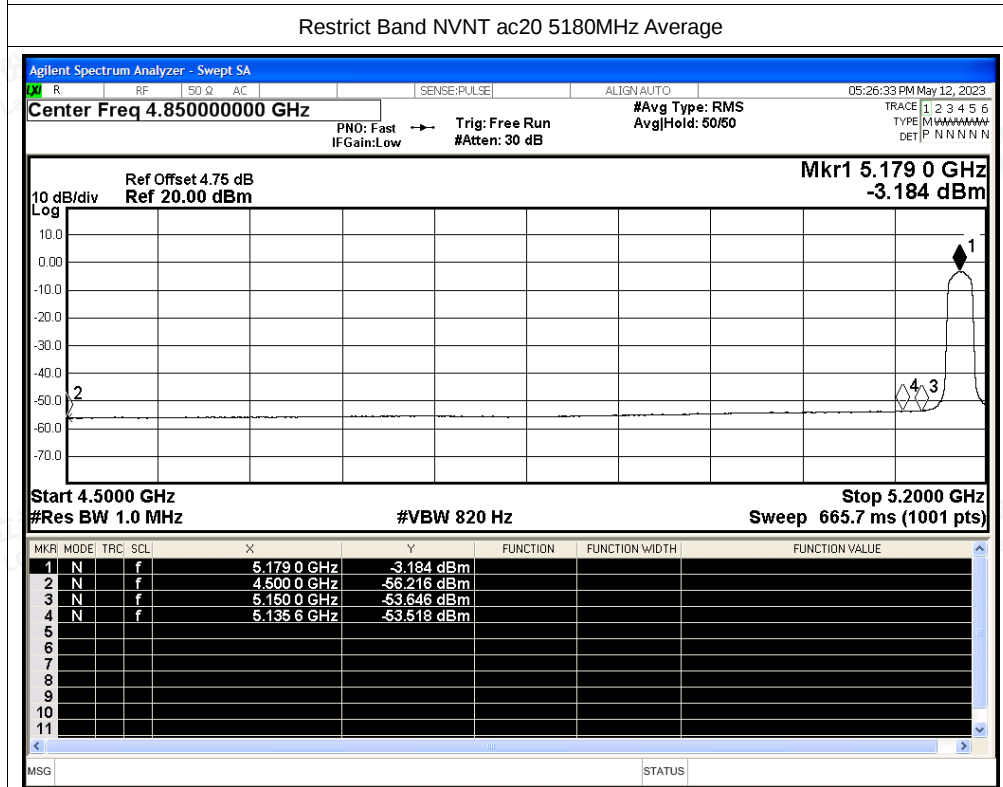
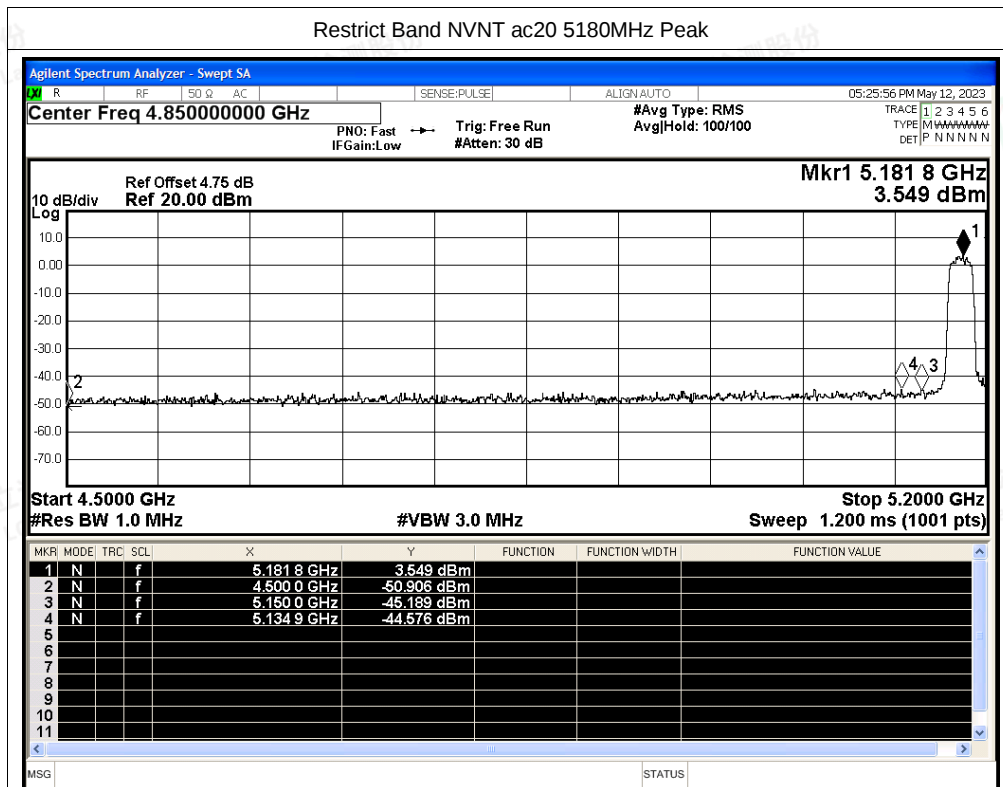


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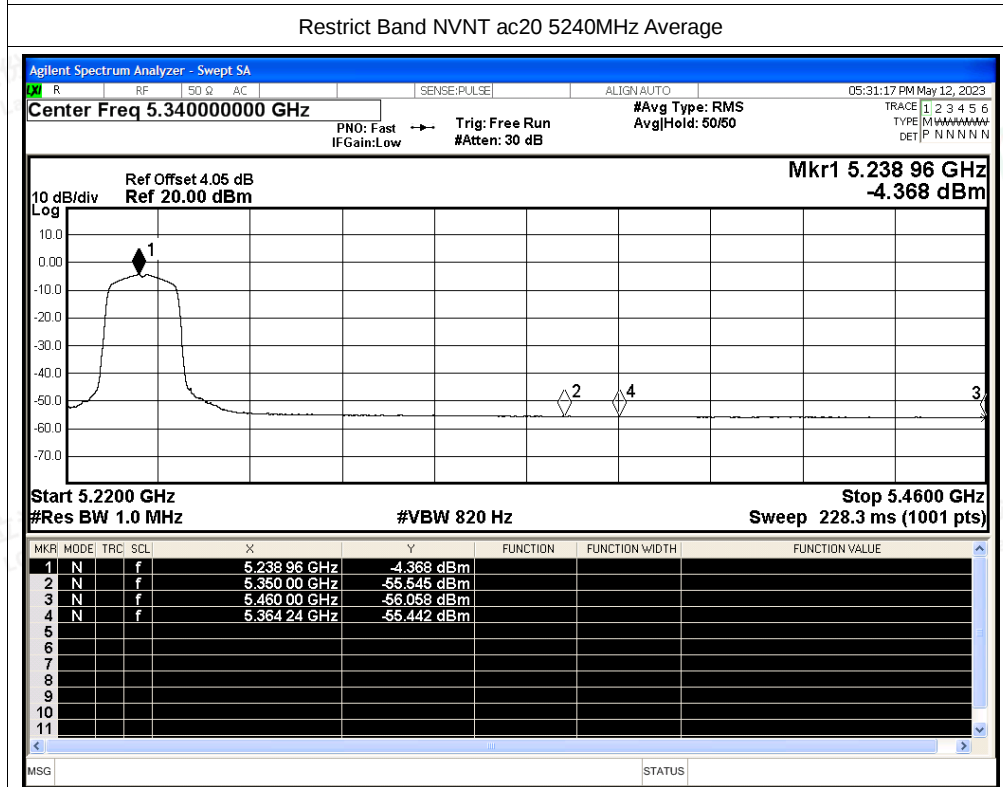
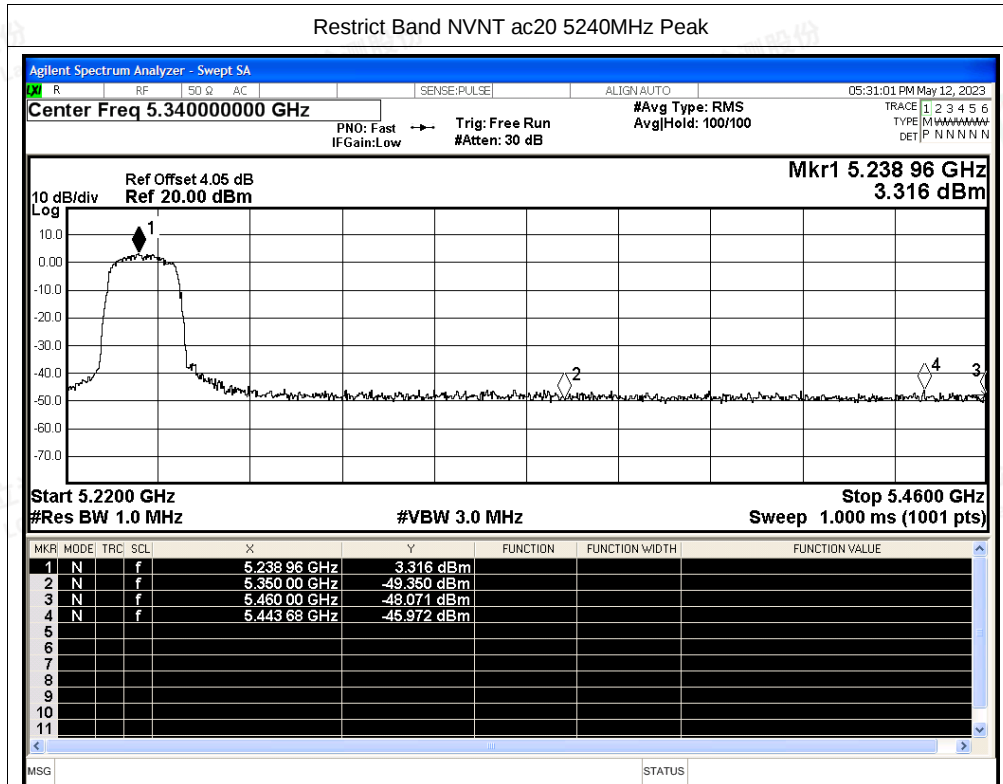


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