

Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Projector

Test Model: X3

Environmental Conditions

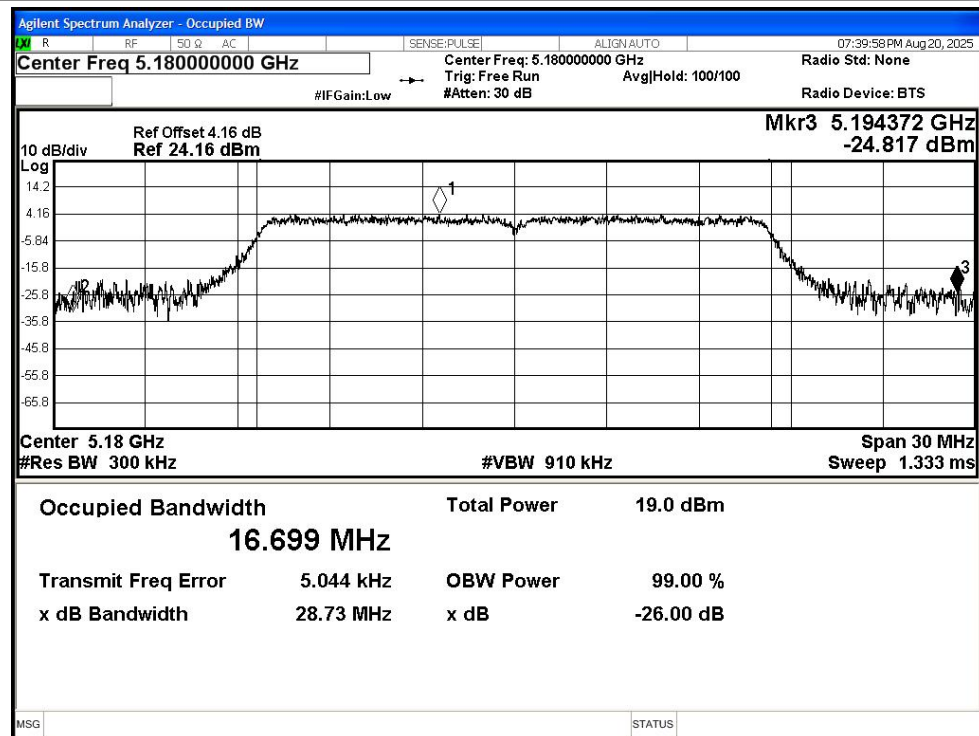
Temperature:	23.6°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jone Lee
Supervised by:	Fengliu Tang

D.1 -26dB Bandwidth

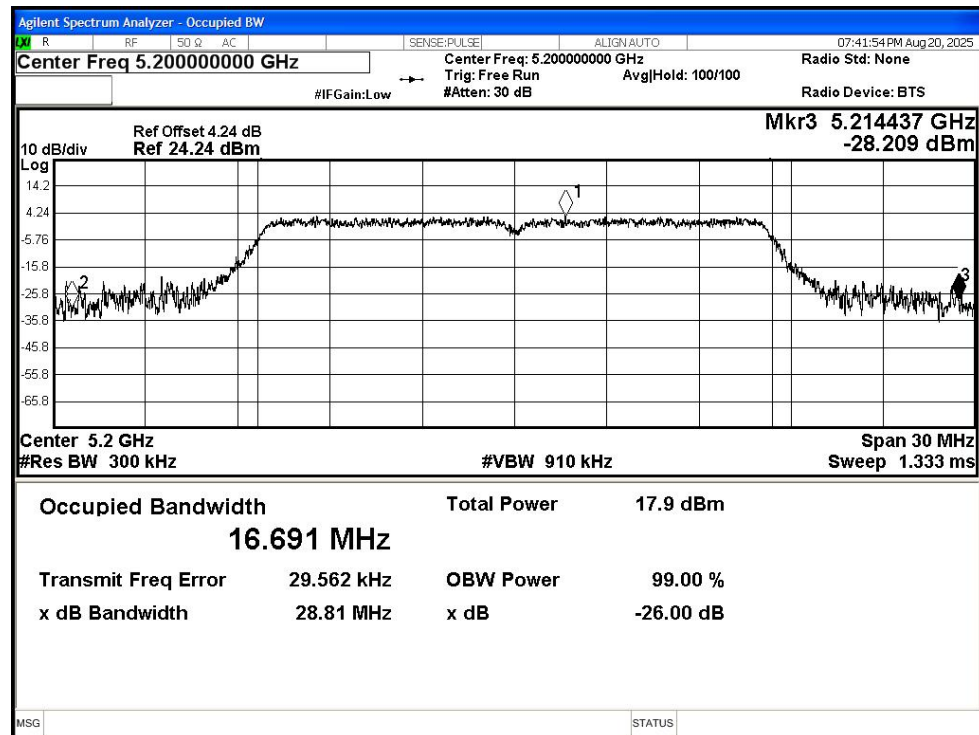
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.735	≥ 0.5	Pass
NVNT	a	5200	Ant1	28.814	≥ 0.5	Pass
NVNT	a	5240	Ant1	26.024	≥ 0.5	Pass
NVNT	n20	5180	Ant1	27.933	≥ 0.5	Pass
NVNT	n20	5200	Ant1	28.743	≥ 0.5	Pass
NVNT	n20	5240	Ant1	29.015	≥ 0.5	Pass
NVNT	n40	5190	Ant1	47.41	≥ 0.5	Pass
NVNT	n40	5230	Ant1	48.421	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	28.738	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	27.777	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	28.196	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	48.524	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	47.585	≥ 0.5	Pass

Test Graphs

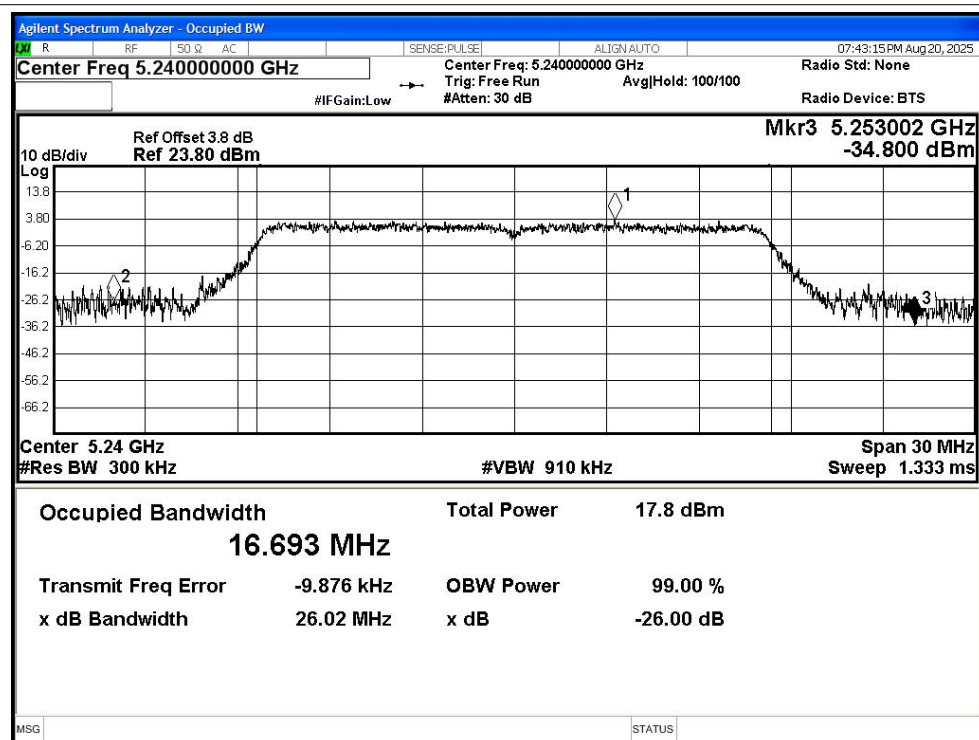
-26dB Bandwidth NVNT a 5180MHz Ant1



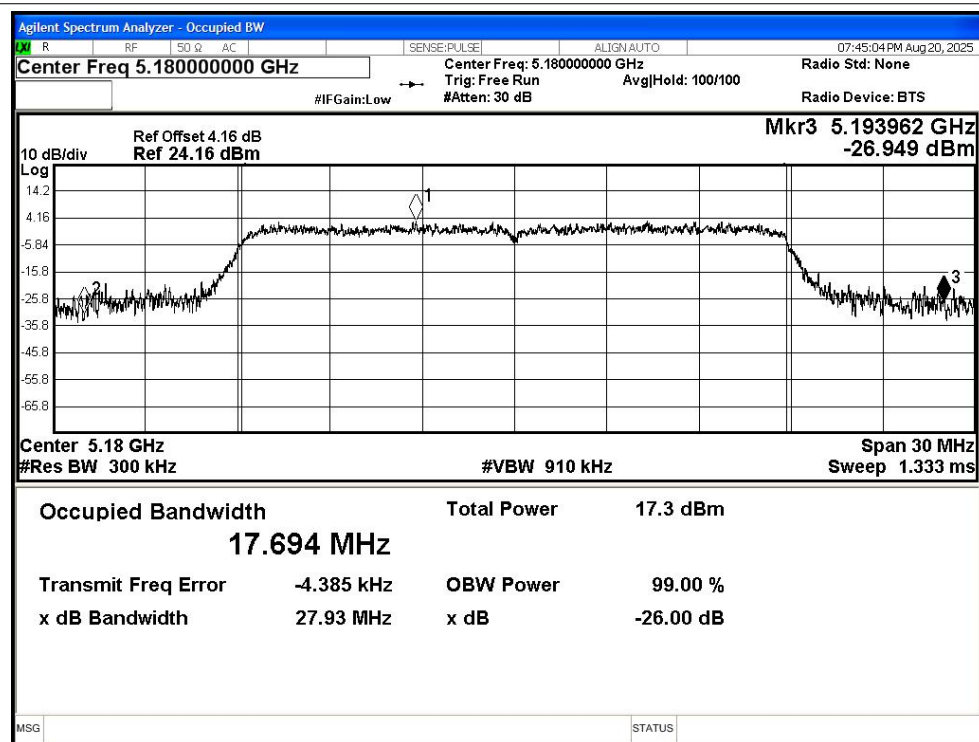
-26dB Bandwidth NVNT a 5200MHz Ant1



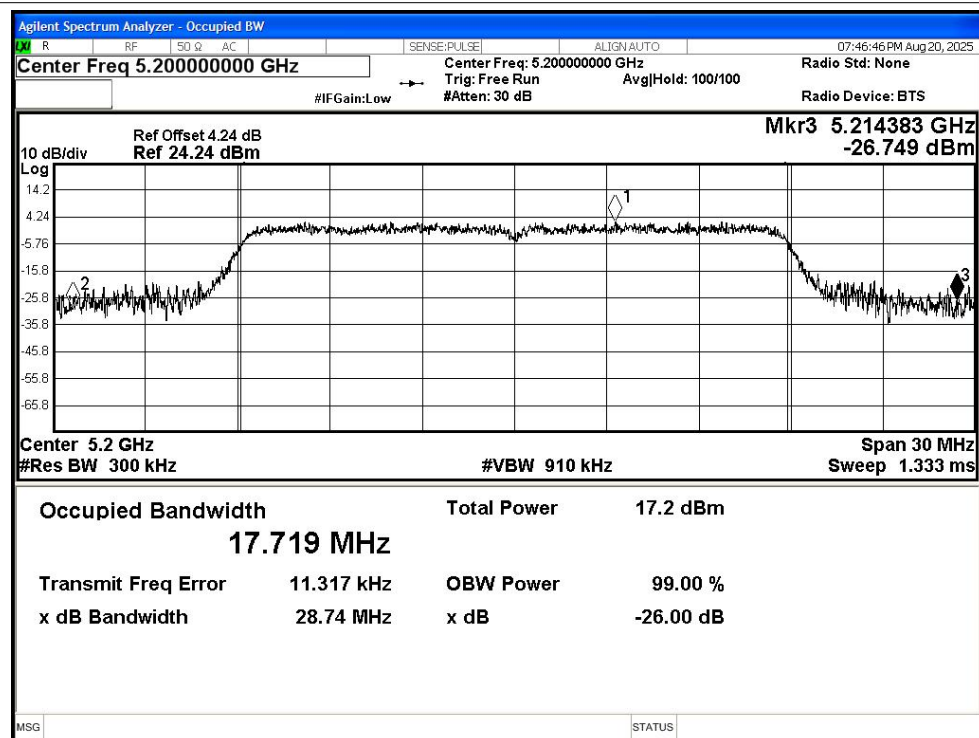
-26dB Bandwidth NVNT a 5240MHz Ant1



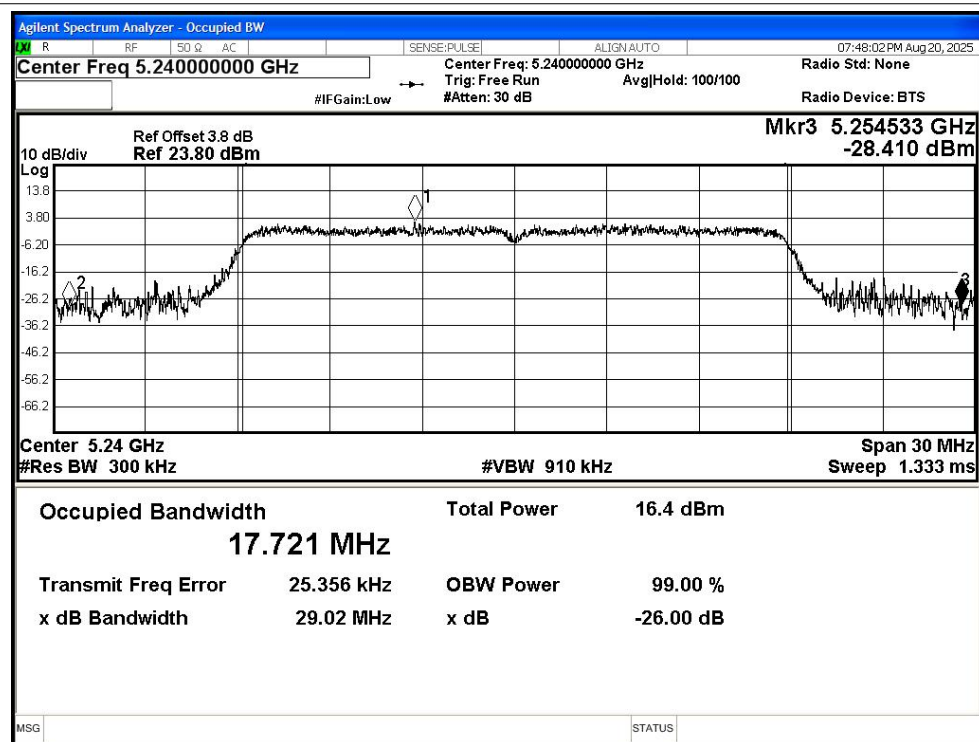
-26dB Bandwidth NVNT n20 5180MHz Ant1



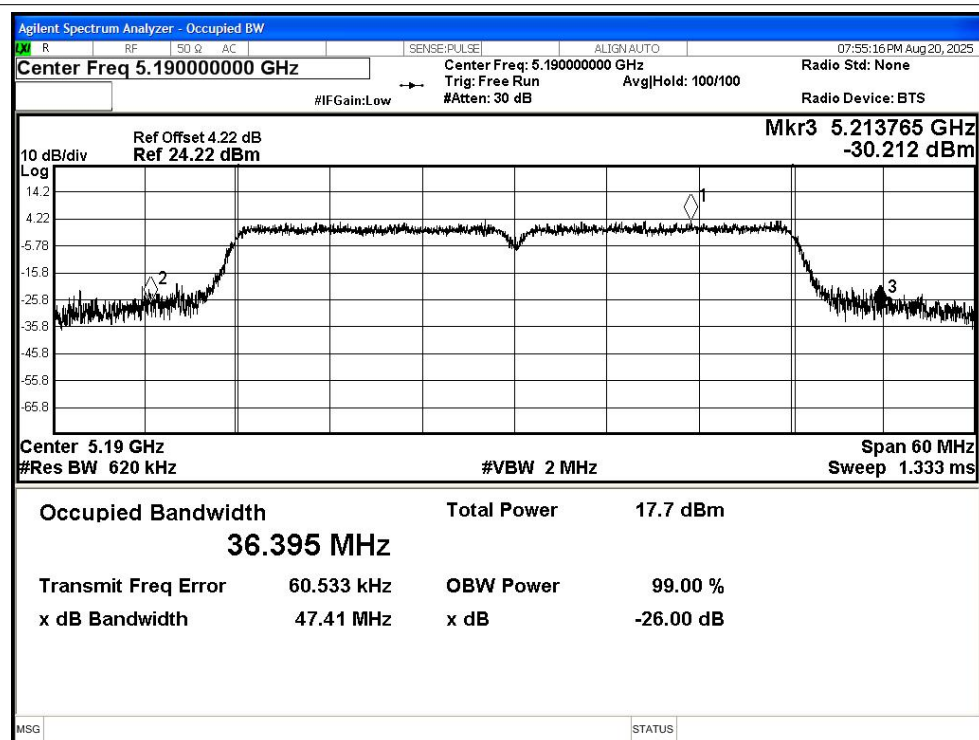
-26dB Bandwidth NVNT n20 5200MHz Ant1



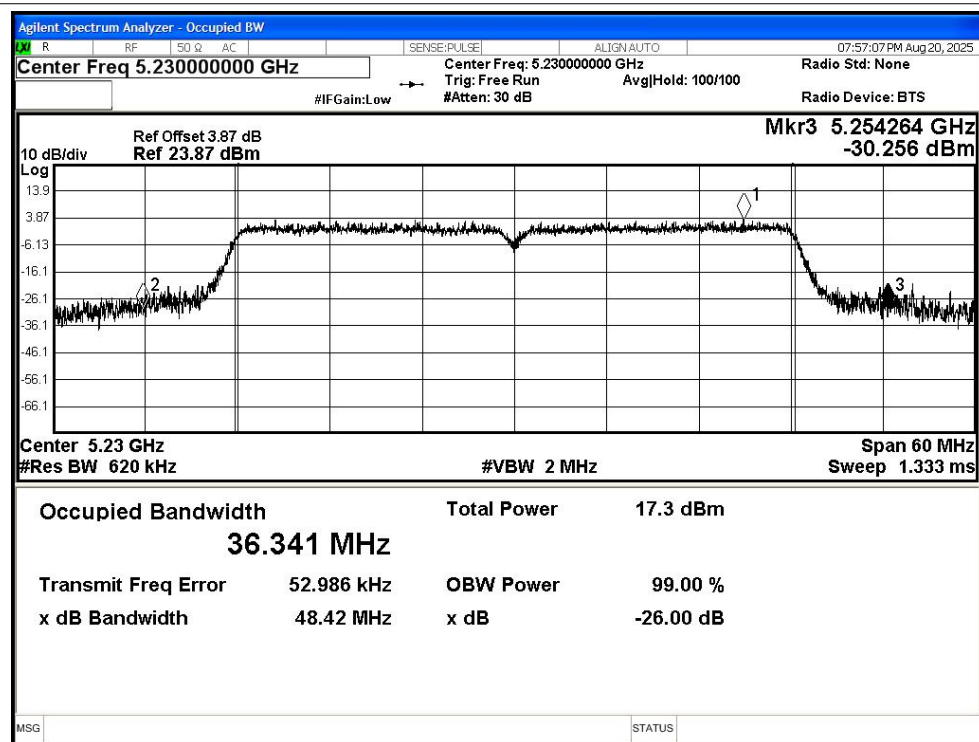
-26dB Bandwidth NVNT n20 5240MHz Ant1



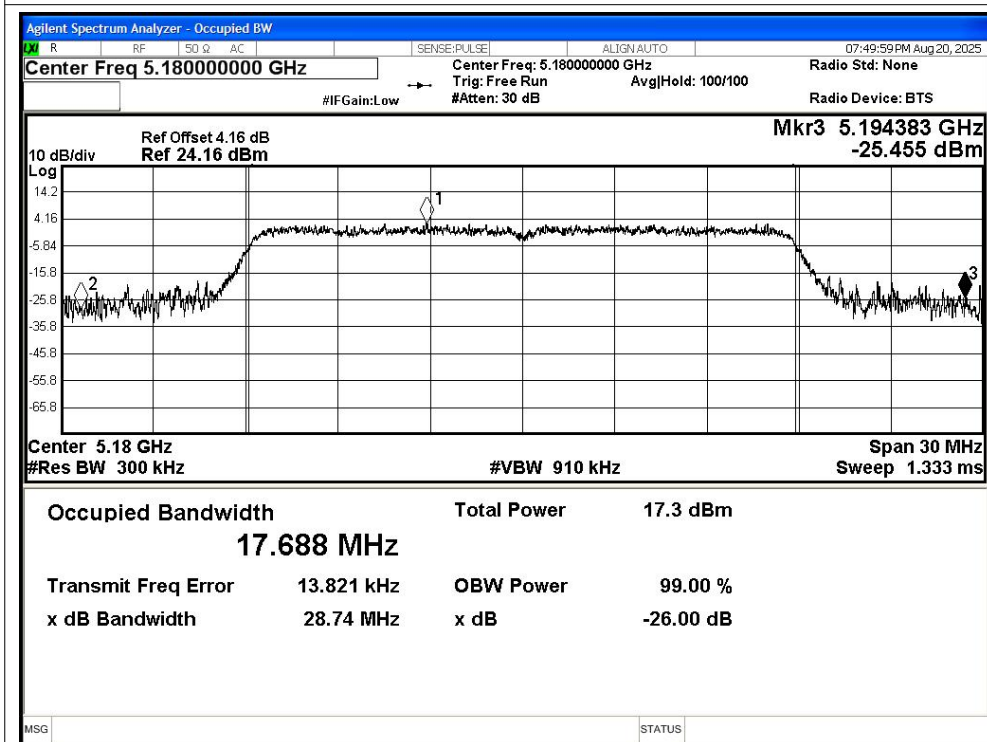
-26dB Bandwidth NVNT n40 5190MHz Ant1



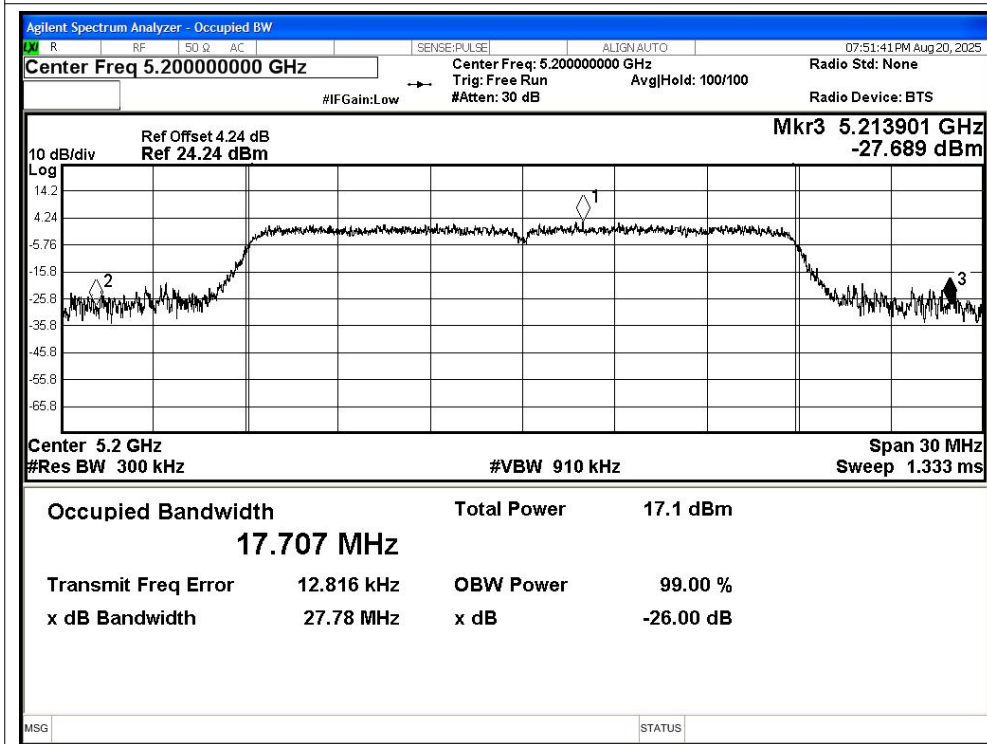
-26dB Bandwidth NVNT n40 5230MHz Ant1



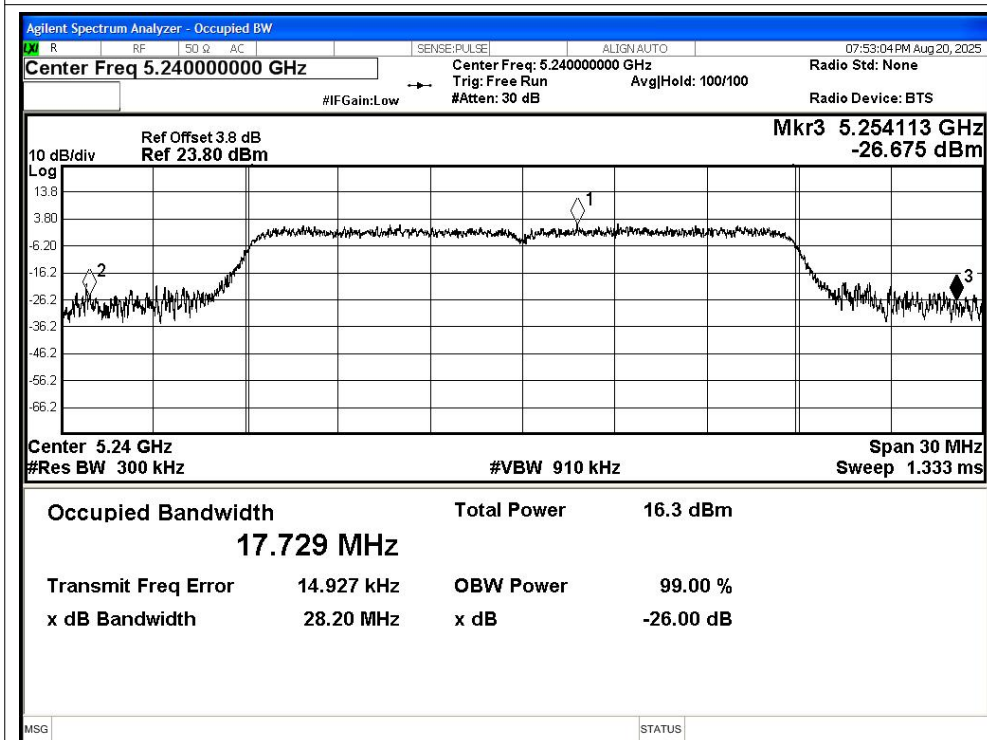
-26dB Bandwidth NVNT ac20 5180MHz Ant1



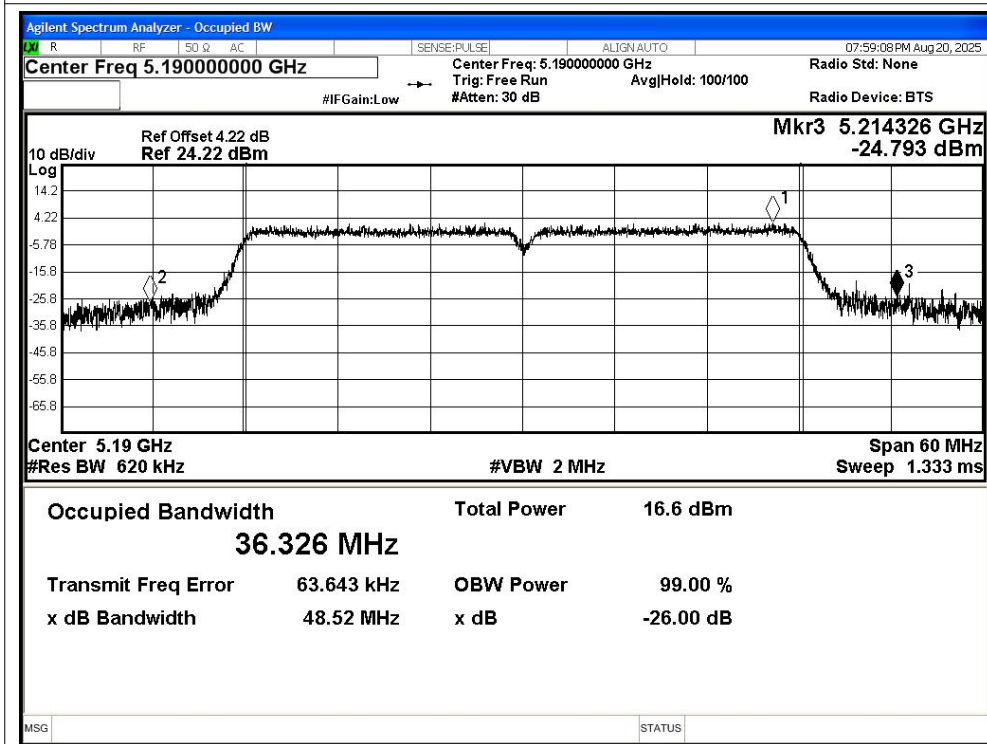
-26dB Bandwidth NVNT ac20 5200MHz Ant1

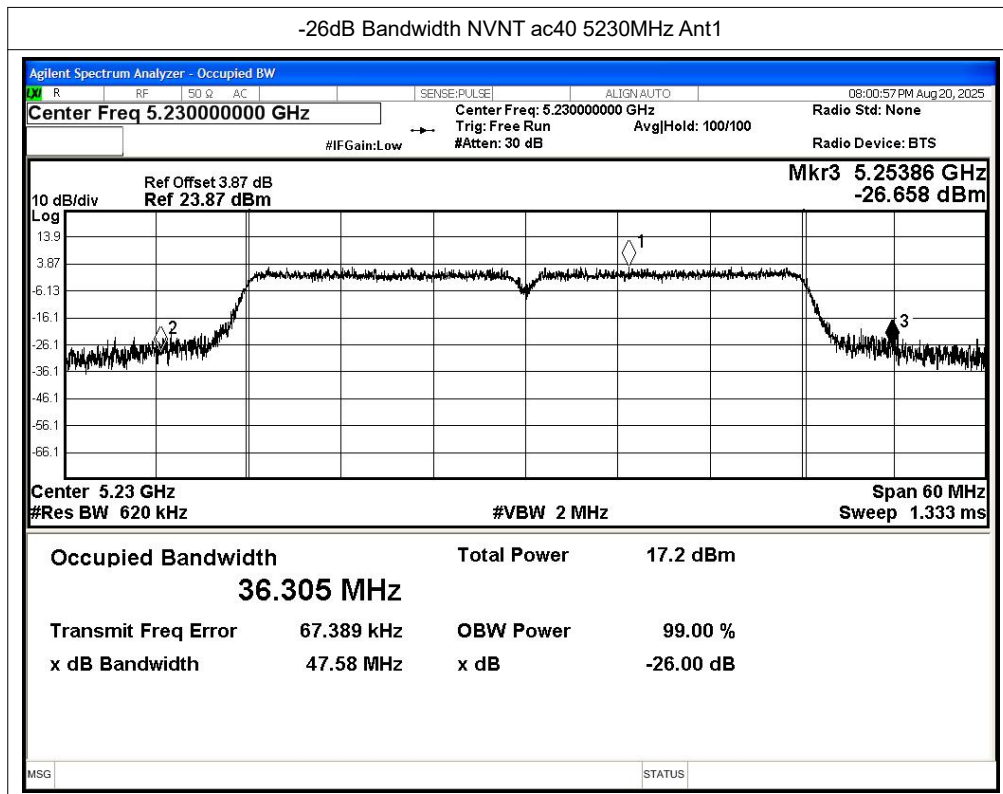


-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1





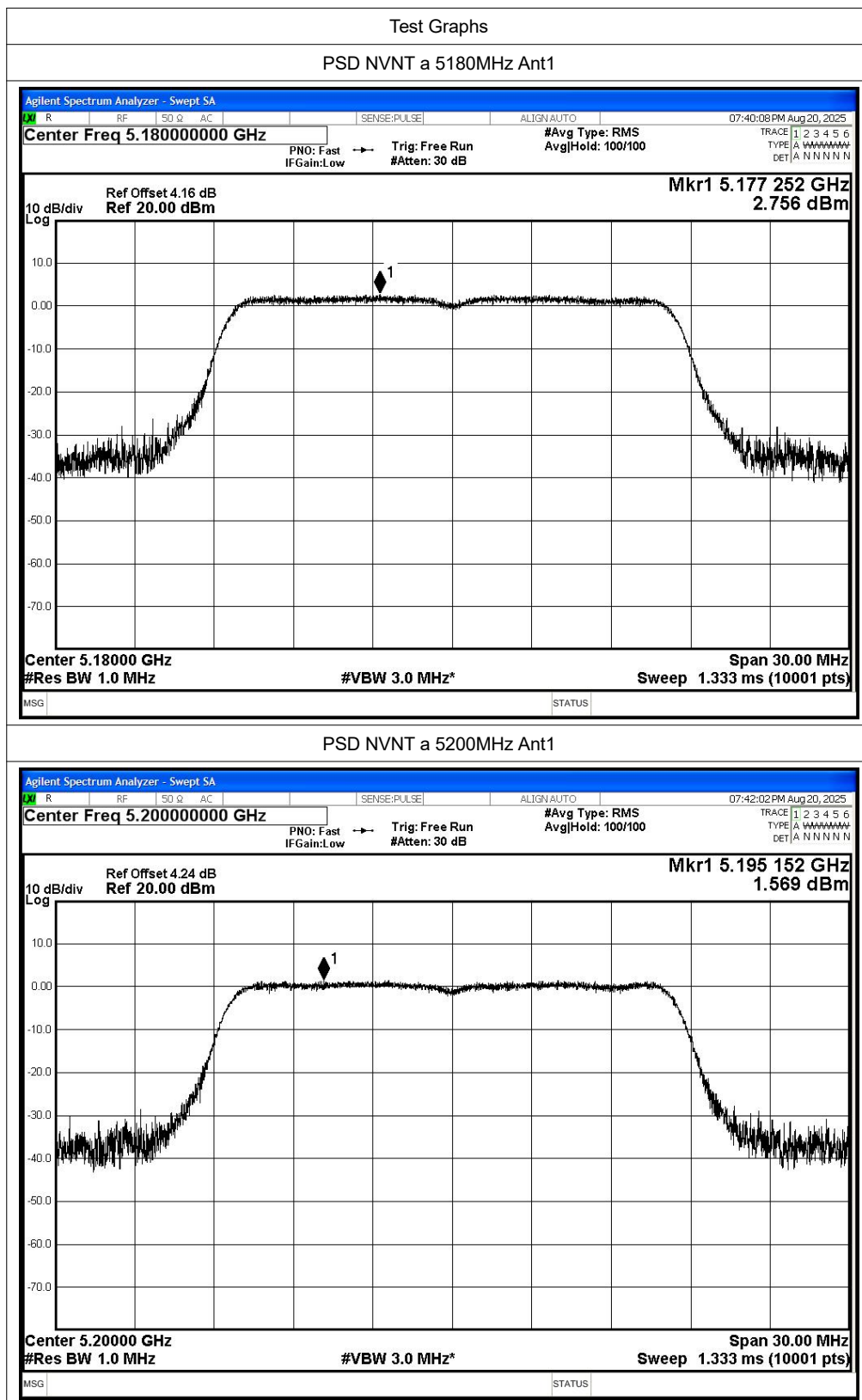
D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.85	0.24	13.09	24	Pass
NVNT	a	5200	Ant1	12.17	0.24	12.41	24	Pass
NVNT	a	5240	Ant1	11.99	0.24	12.23	24	Pass
NVNT	n20	5180	Ant1	11.76	0.12	11.88	24	Pass
NVNT	n20	5200	Ant1	11.67	0.12	11.79	24	Pass
NVNT	n20	5240	Ant1	10.87	0.12	10.99	24	Pass
NVNT	n40	5190	Ant1	11.41	0.24	11.65	24	Pass
NVNT	n40	5230	Ant1	10.99	0.24	11.23	24	Pass
NVNT	ac20	5180	Ant1	11.81	0.12	11.93	24	Pass
NVNT	ac20	5200	Ant1	11.59	0.12	11.71	24	Pass
NVNT	ac20	5240	Ant1	11.82	0.12	11.94	24	Pass
NVNT	ac40	5190	Ant1	10.27	0.24	10.51	24	Pass
NVNT	ac40	5230	Ant1	10.83	0.24	11.07	24	Pass

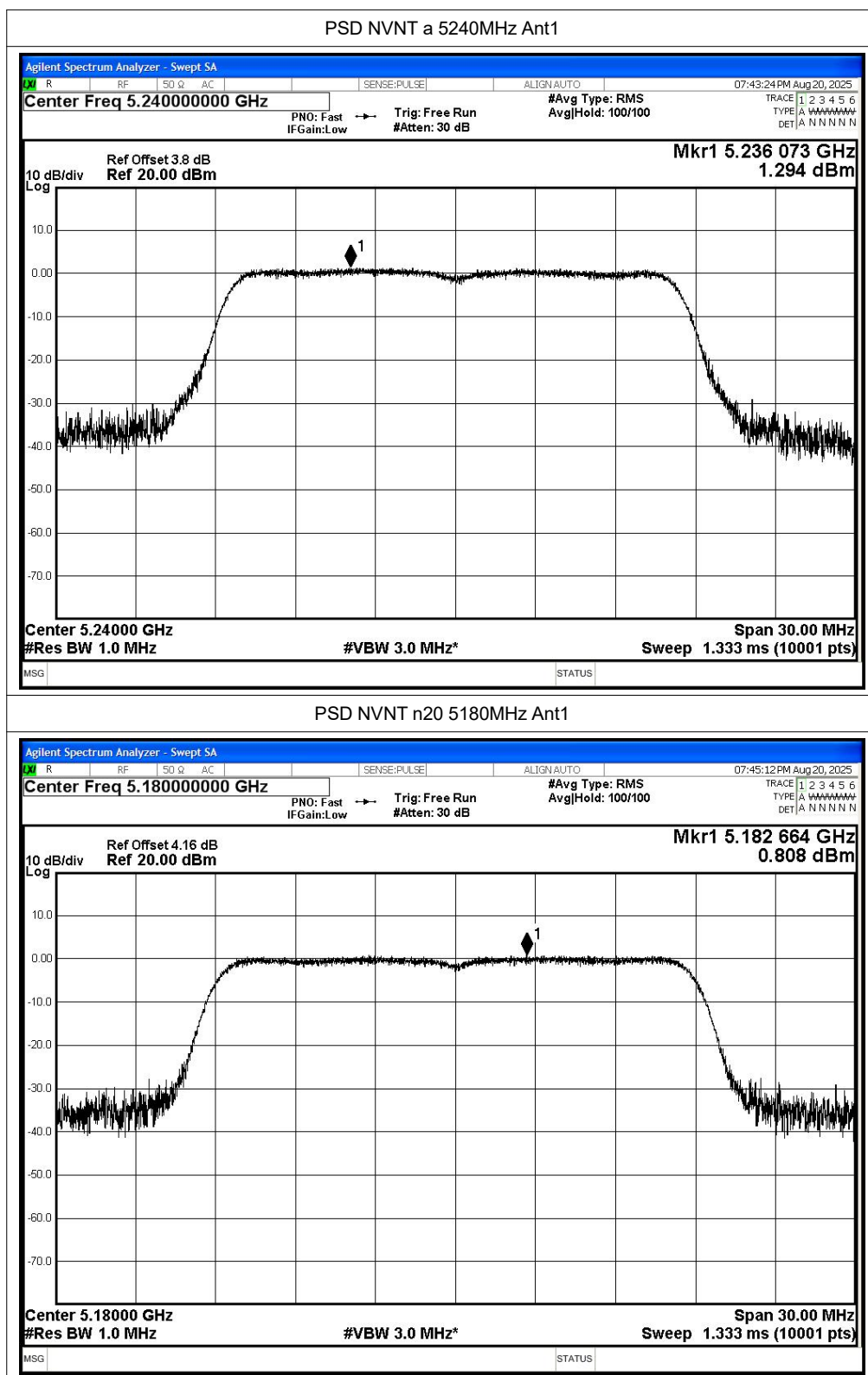
D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.76	0.24	3.00	11	Pass
NVNT	a	5200	Ant1	1.57	0.24	1.81	11	Pass
NVNT	a	5240	Ant1	1.29	0.24	1.53	11	Pass
NVNT	n20	5180	Ant1	0.81	0.12	0.93	11	Pass
NVNT	n20	5200	Ant1	0.92	0.12	1.04	11	Pass
NVNT	n20	5240	Ant1	-0.01	0.12	0.11	11	Pass
NVNT	n40	5190	Ant1	-2.34	0.24	-2.10	11	Pass
NVNT	n40	5230	Ant1	-2.5	0.24	-2.26	11	Pass
NVNT	ac20	5180	Ant1	0.97	0.12	1.09	11	Pass
NVNT	ac20	5200	Ant1	0.88	0.12	1.00	11	Pass
NVNT	ac20	5240	Ant1	-0.05	0.12	0.07	11	Pass
NVNT	ac40	5190	Ant1	-3.5	0.24	-3.26	11	Pass
NVNT	ac40	5230	Ant1	-2.77	0.24	-2.53	11	Pass

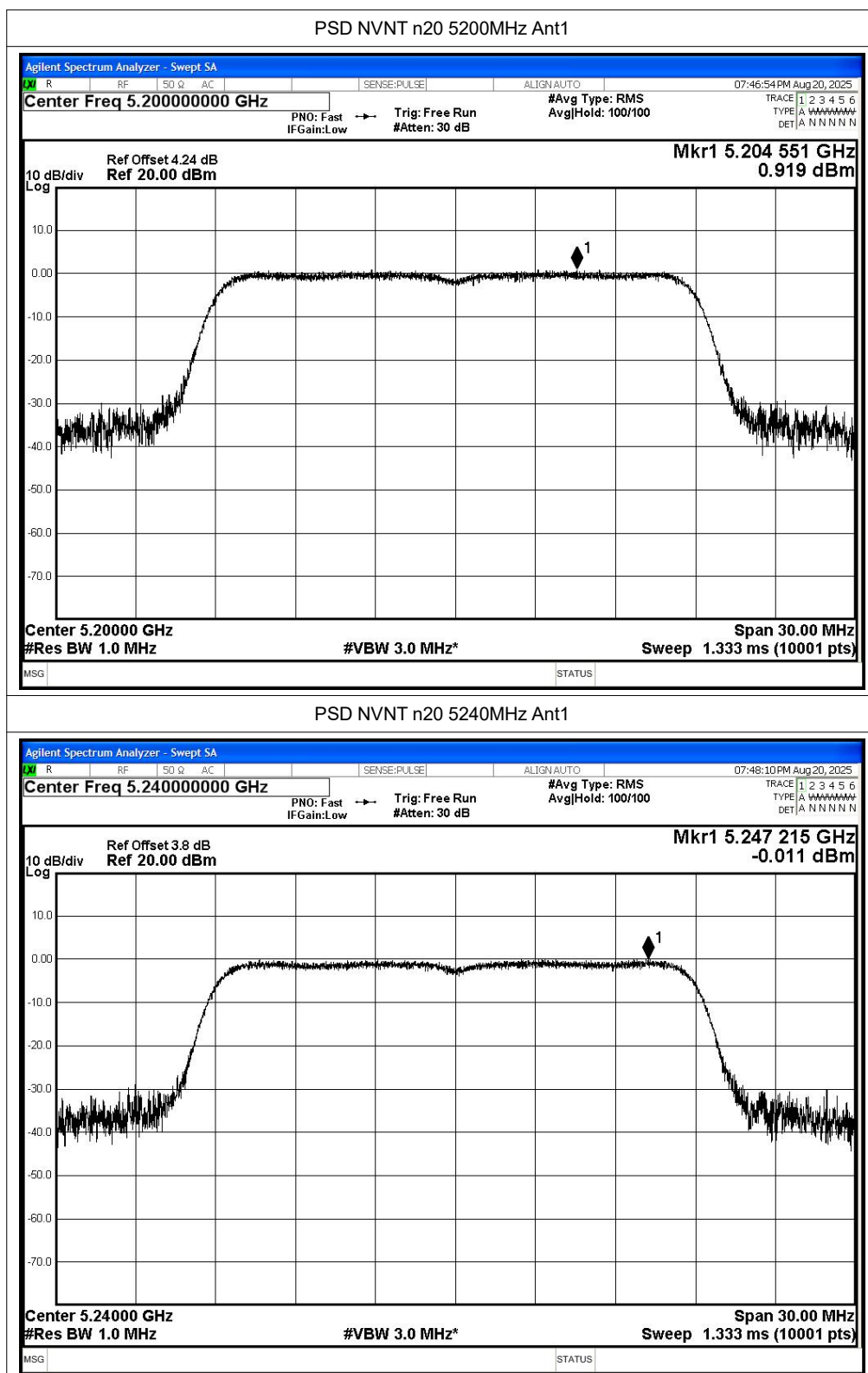
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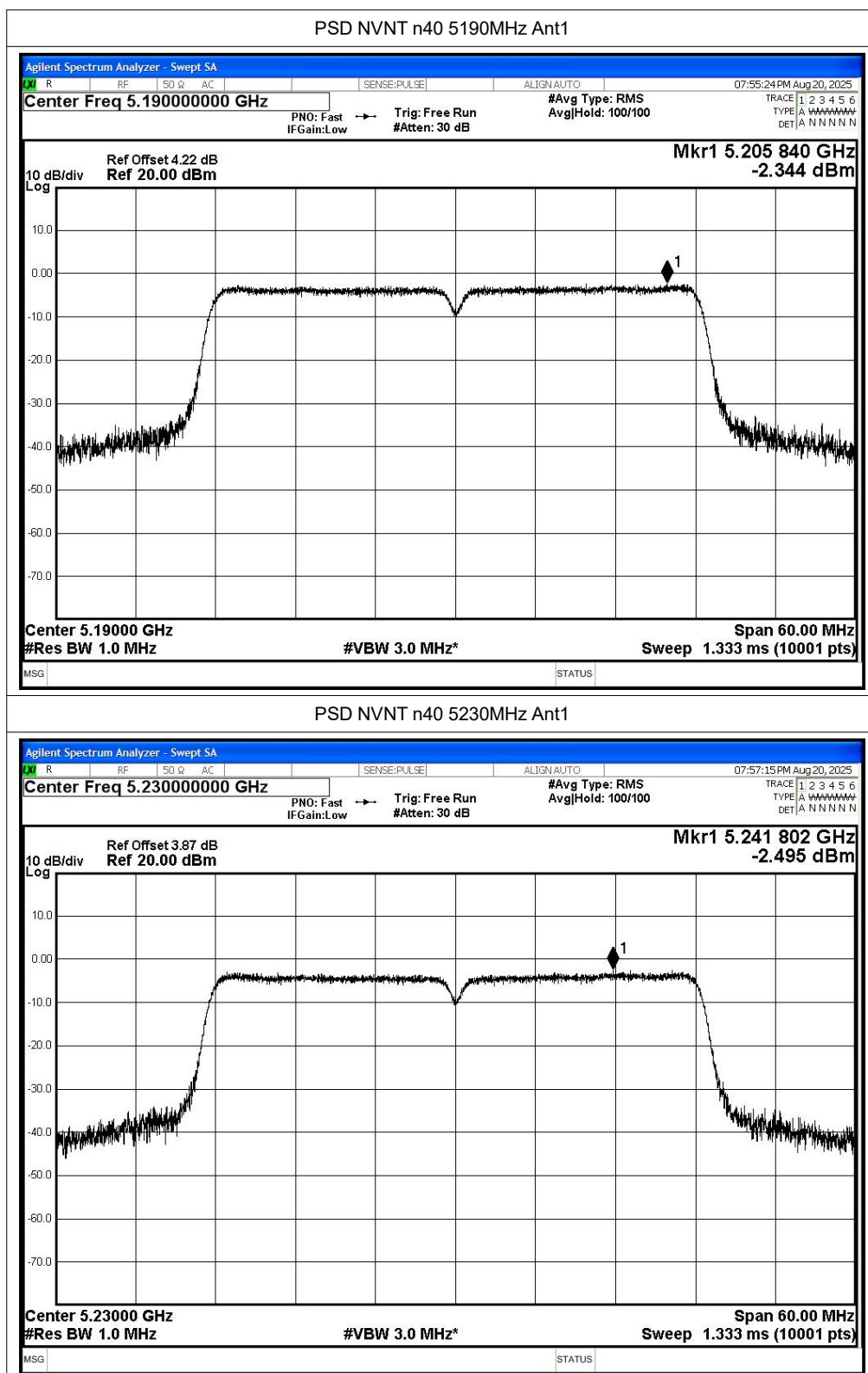
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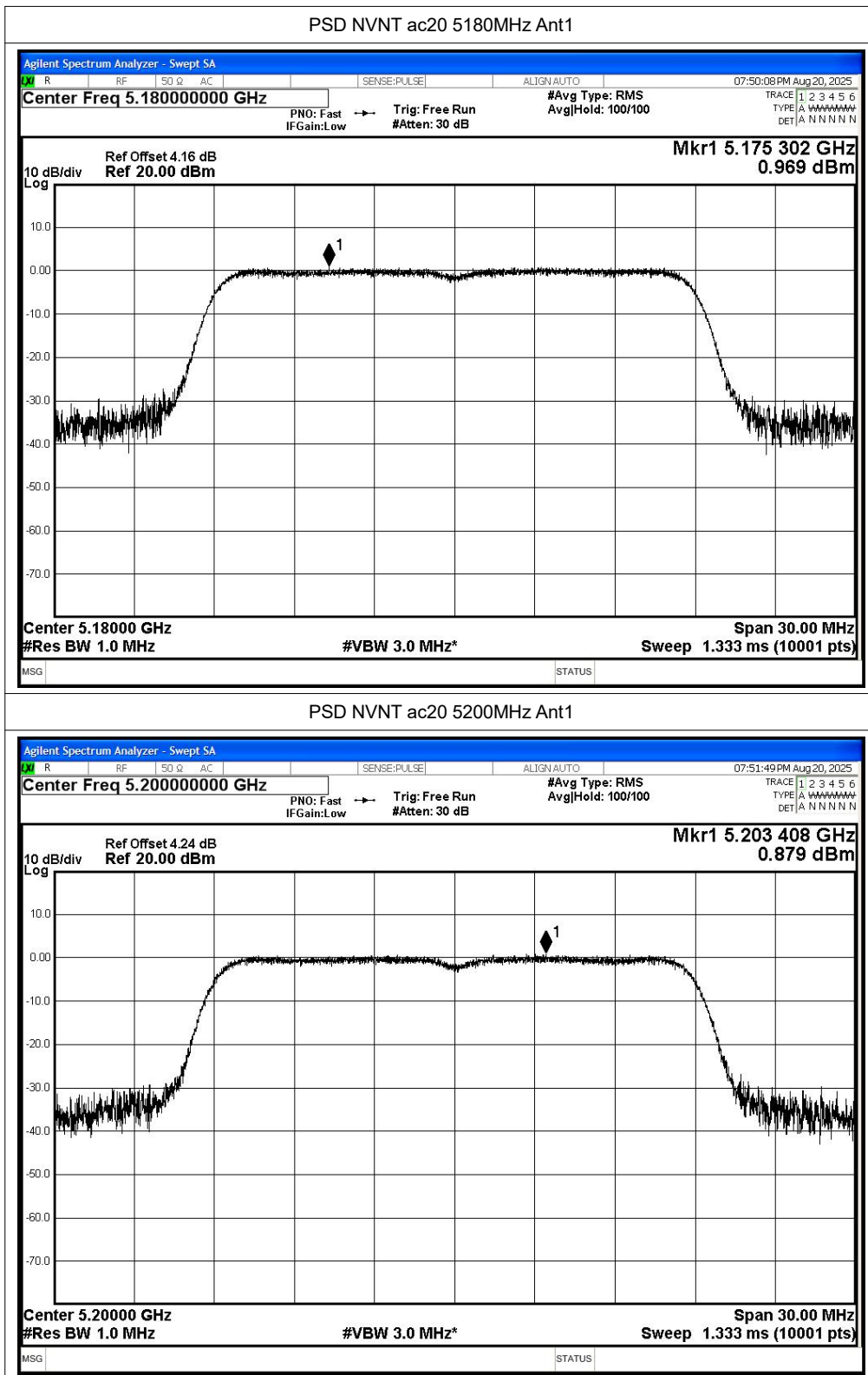
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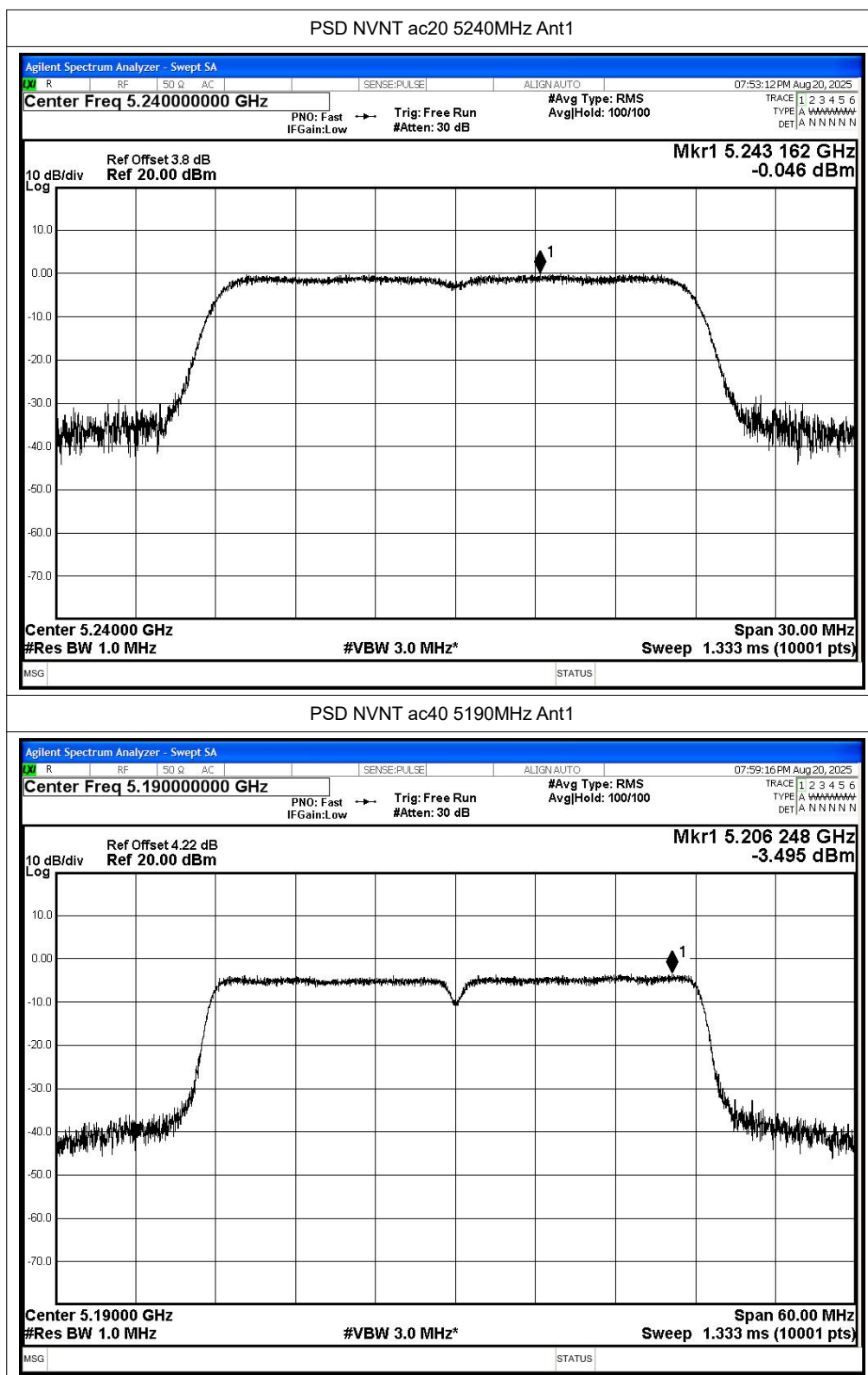
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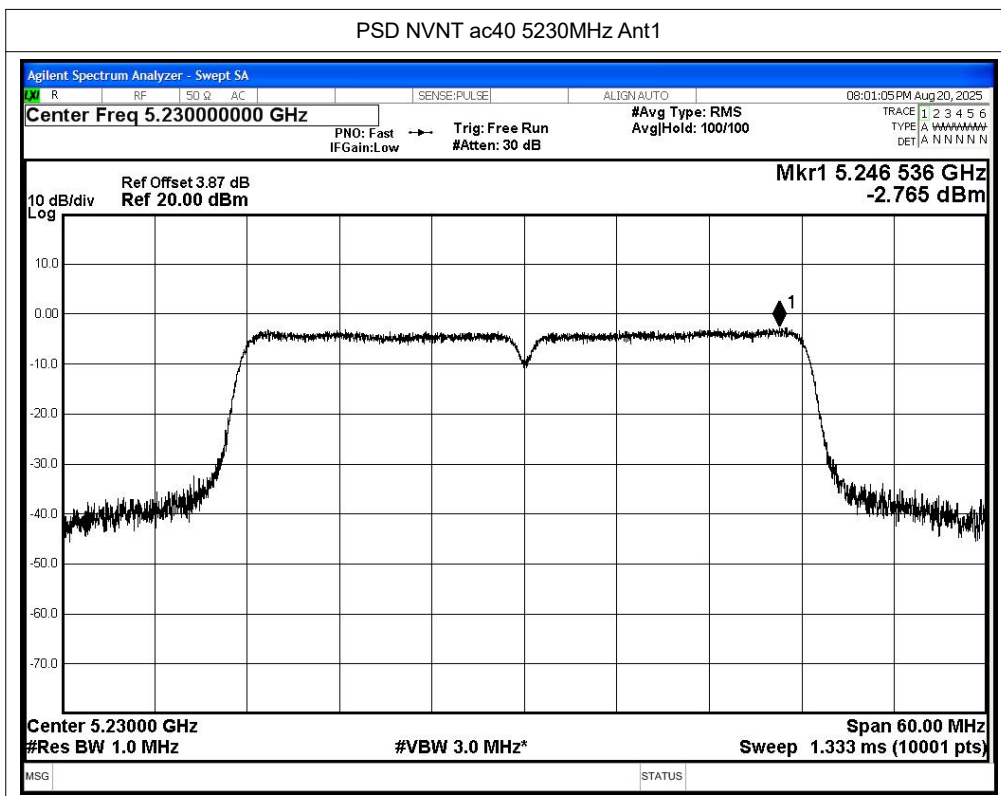


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D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-49.6	2.14	-	47.77	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.53	2.14	0.24	40.08	Average	54	Pass
NVNT	a	5180	Ant1	5086.6	-45.52	2.14	-	51.85	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.2	-55.13	2.14	0.24	42.48	Average	54	Pass
NVNT	a	5180	Ant1	5150	-45.79	2.14	-	51.58	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.92	2.14	0.24	42.69	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.28	2.14	-	48.09	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.45	2.14	0.24	40.16	Average	54	Pass
NVNT	a	5240	Ant1	5399.52	-45.88	2.14	-	51.49	Peak	68.2	Pass
NVNT	a	5240	Ant1	5390.4	-56.37	2.14	0.24	41.24	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.07	2.14	-	48.30	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.08	2.14	0.24	40.53	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.81	2.14	-	47.56	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.36	2.14	0.12	39.13	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-43.48	2.14	-	53.89	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-53.64	2.14	0.12	43.85	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-43.36	2.14	-	54.01	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-53.82	2.14	0.12	43.67	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.73	2.14	-	47.64	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.31	2.14	0.12	40.18	Average	54	Pass
NVNT	n20	5240	Ant1	5365.44	-45.88	2.14	-	51.49	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5393.76	-56.46	2.14	0.12	41.03	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.9	2.14	-	48.47	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.43	2.14	0.12	40.06	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.68	2.14	-	46.69	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.65	2.14	0.24	39.96	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-42.17	2.14	-	55.20	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-54.46	2.14	0.24	43.15	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-44.4	2.14	-	52.97	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.46	2.14	0.24	43.15	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-50.12	2.14	-	47.25	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.78	2.14	0.24	40.83	Average	54	Pass
NVNT	n40	5230	Ant1	5352.81	-46.73	2.14	-	50.64	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5401.14	-56.36	2.14	0.24	41.25	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.79	2.14	-	47.58	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.92	2.14	0.24	40.69	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.88	2.14	-	48.49	Peak	68.2	Pass

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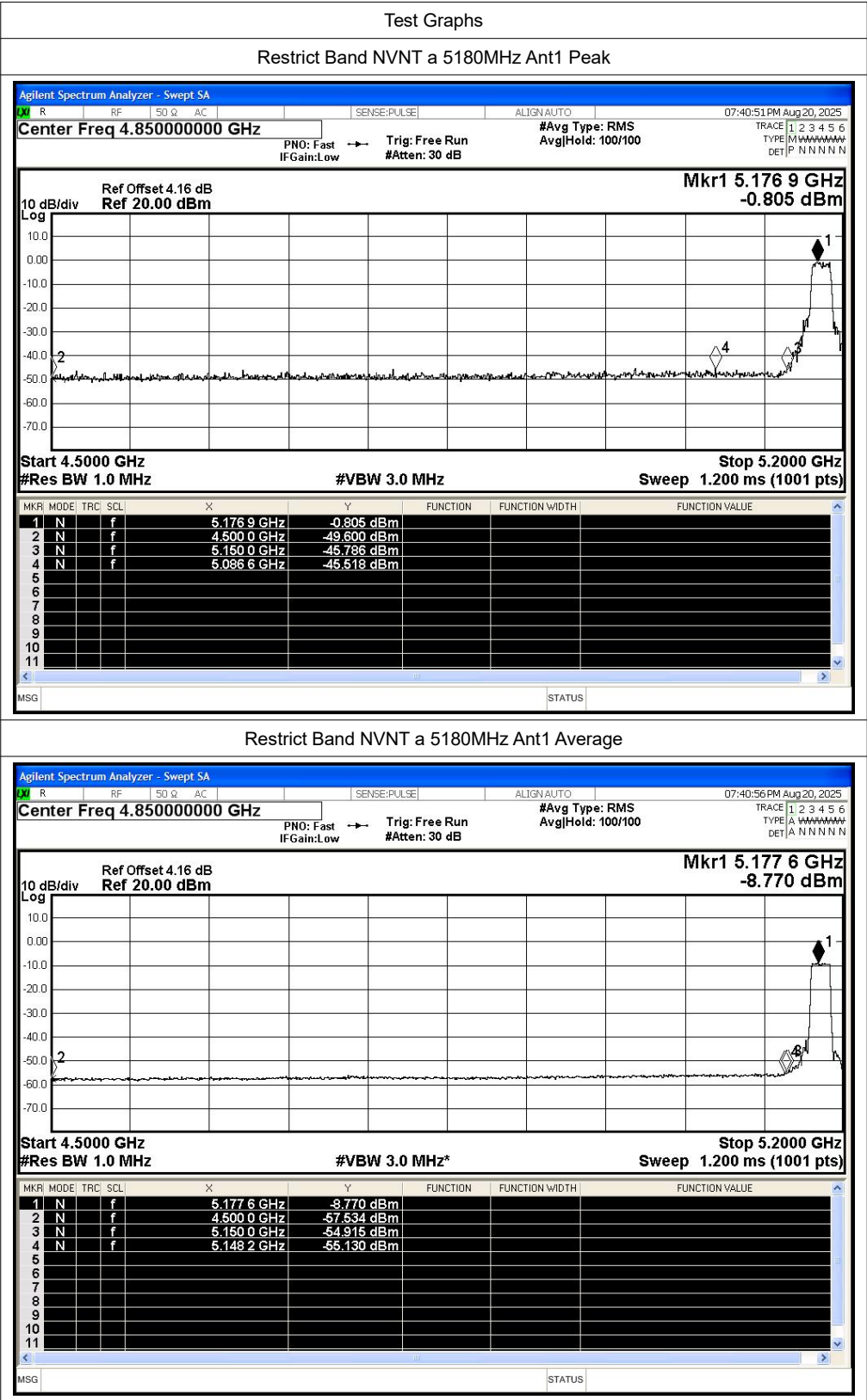
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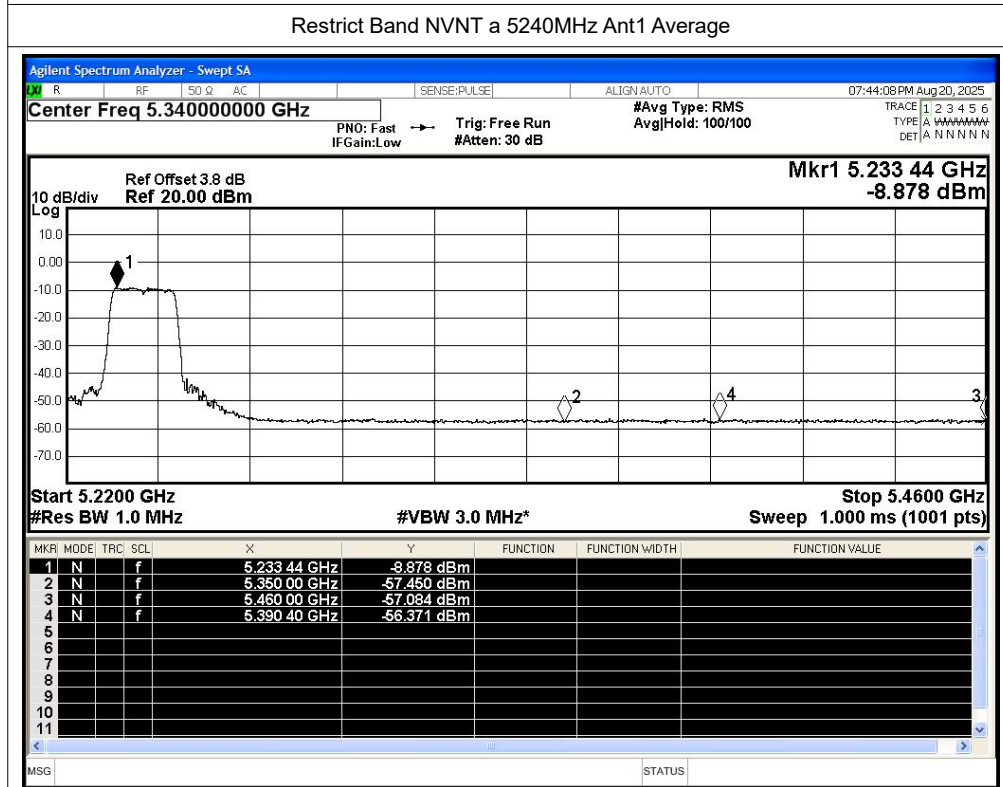
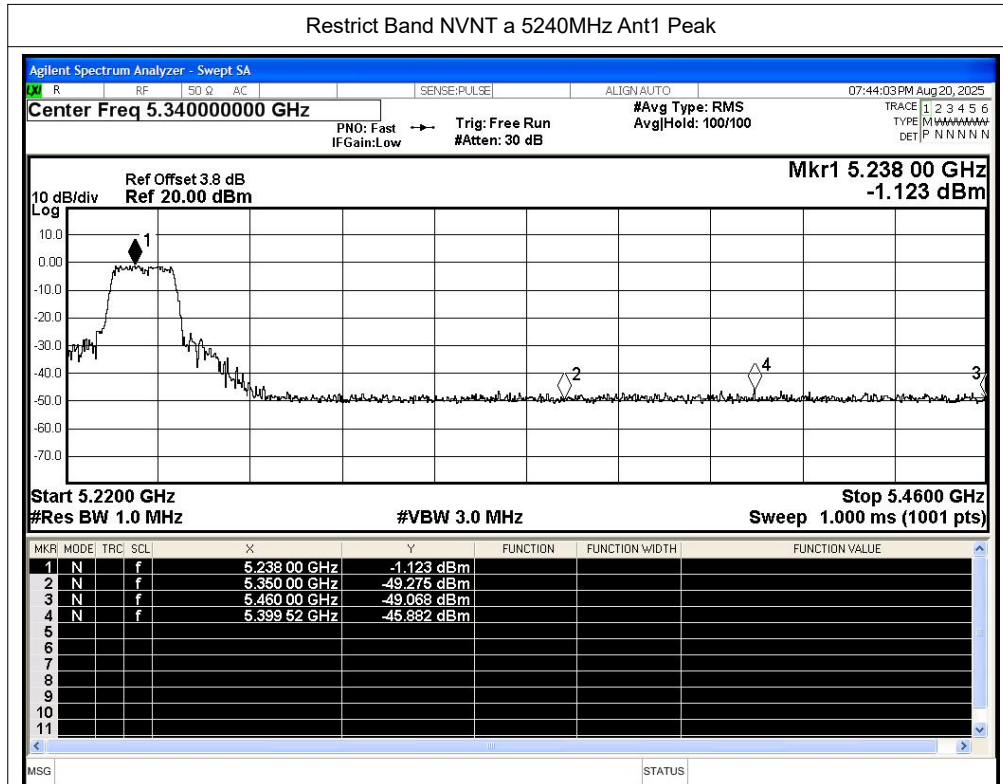
Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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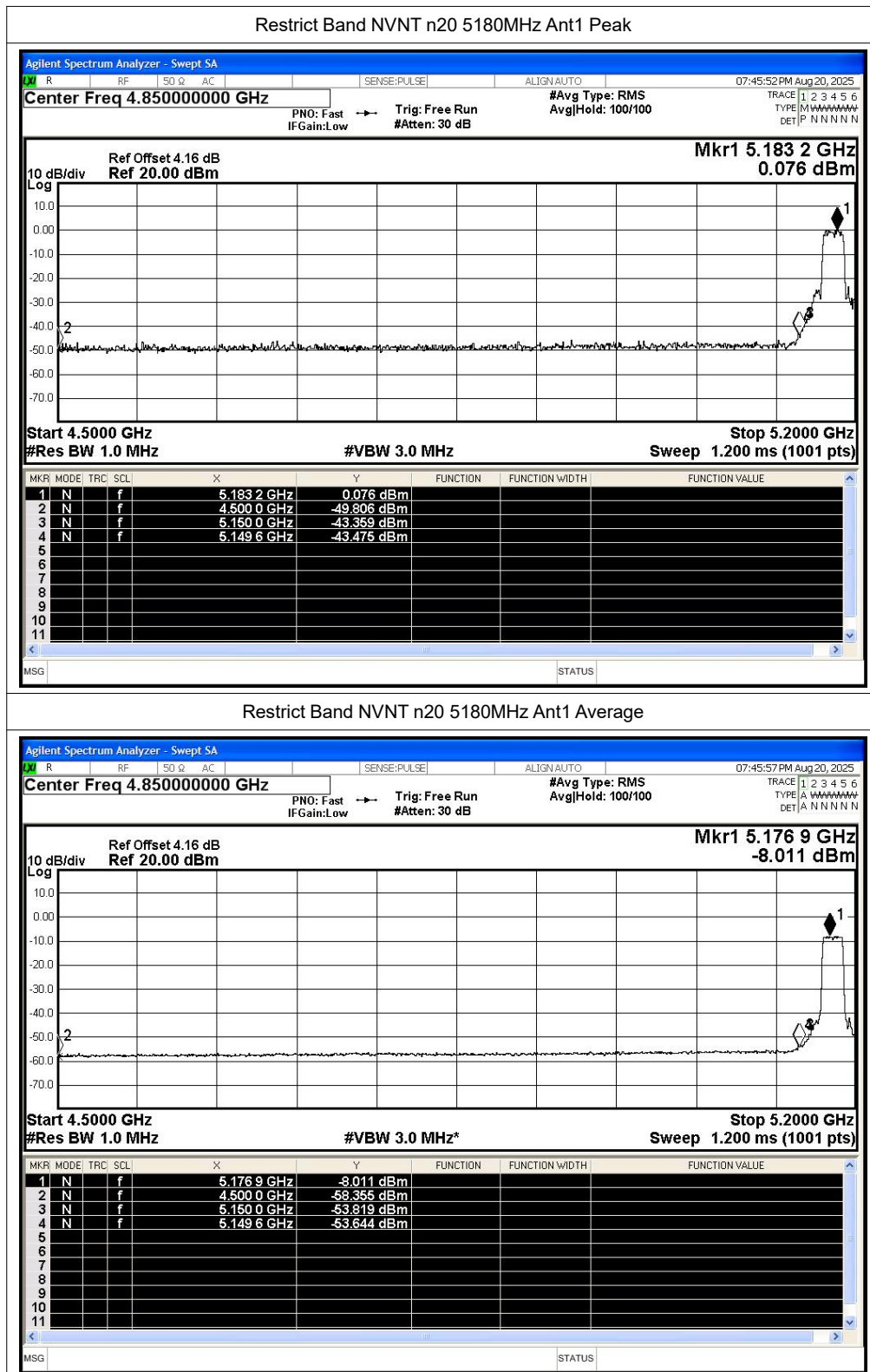
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NVNT	ac20	5180	Ant1	5148.9	-45.05	2.14	-	52.32	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.2	-54.5	2.14	0.12	42.99	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-45.04	2.14	-	52.33	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.45	2.14	0.12	43.04	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.76	2.14	-	47.61	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.74	2.14	0.12	39.75	Average	54	Pass
NVNT	ac20	5240	Ant1	5400.24	-46.76	2.14	-	50.61	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5421.84	-56.55	2.14	0.12	40.94	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.06	2.14	-	47.31	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.91	2.14	0.12	40.58	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.3	2.14	-	49.07	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.82	2.14	0.24	39.79	Average	54	Pass
NVNT	ac40	5190	Ant1	5147.51	-42.93	2.14	-	54.44	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-54.36	2.14	0.24	43.25	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-43.79	2.14	-	53.58	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.36	2.14	0.24	43.25	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.95	2.14	-	47.42	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.39	2.14	0.24	40.22	Average	54	Pass
NVNT	ac40	5230	Ant1	5395.47	-46.3	2.14	-	51.07	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5428.14	-56.61	2.14	0.24	41.00	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-48.88	2.14	-	48.49	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.37	2.14	0.24	40.24	Average	54	Pass

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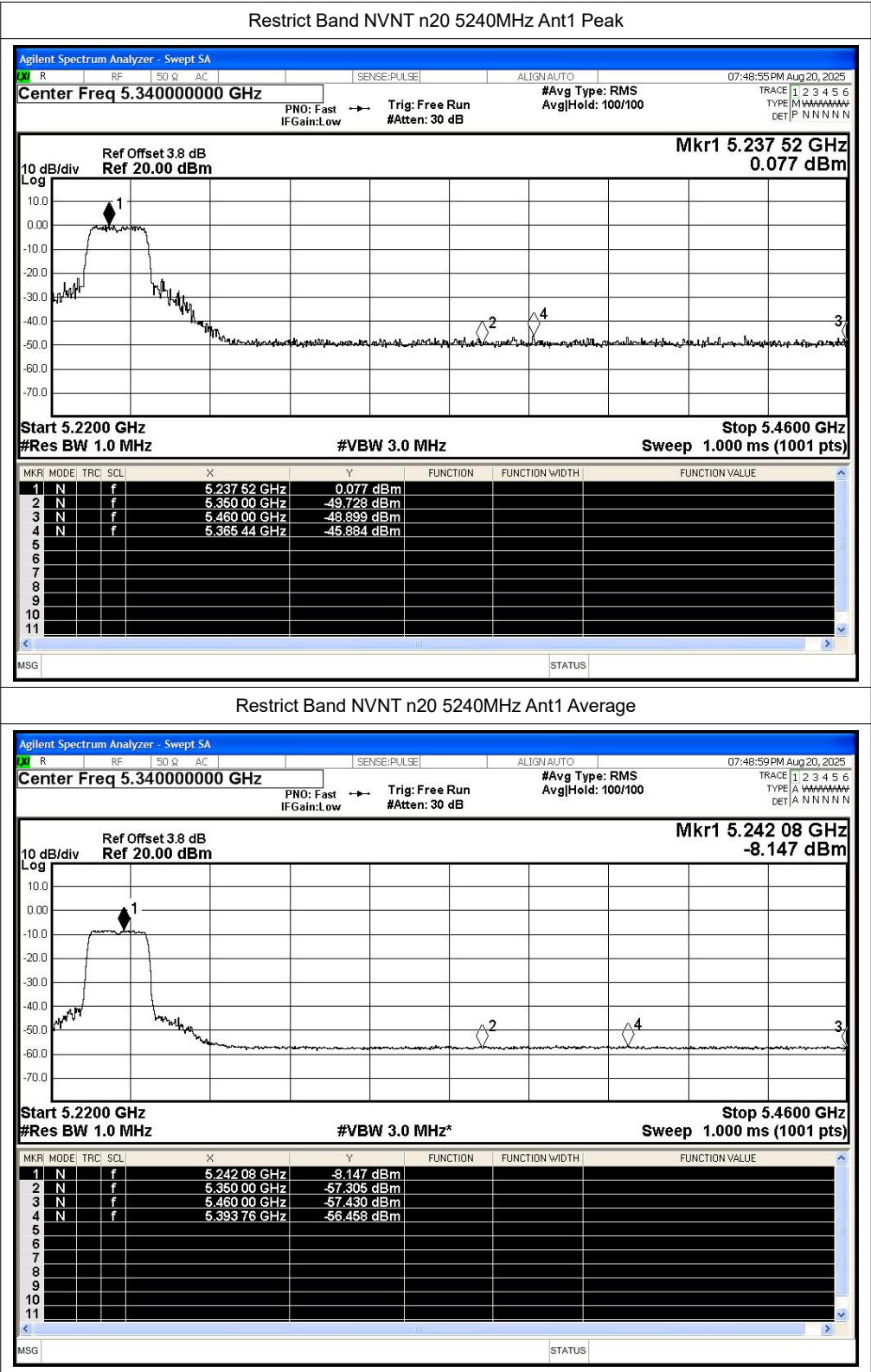




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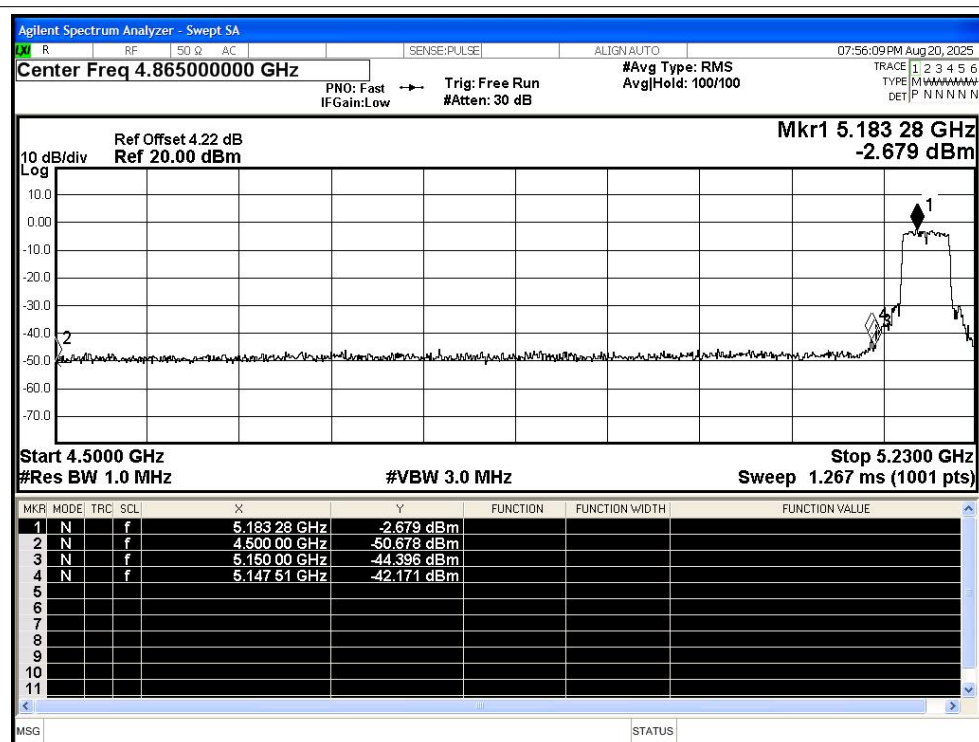


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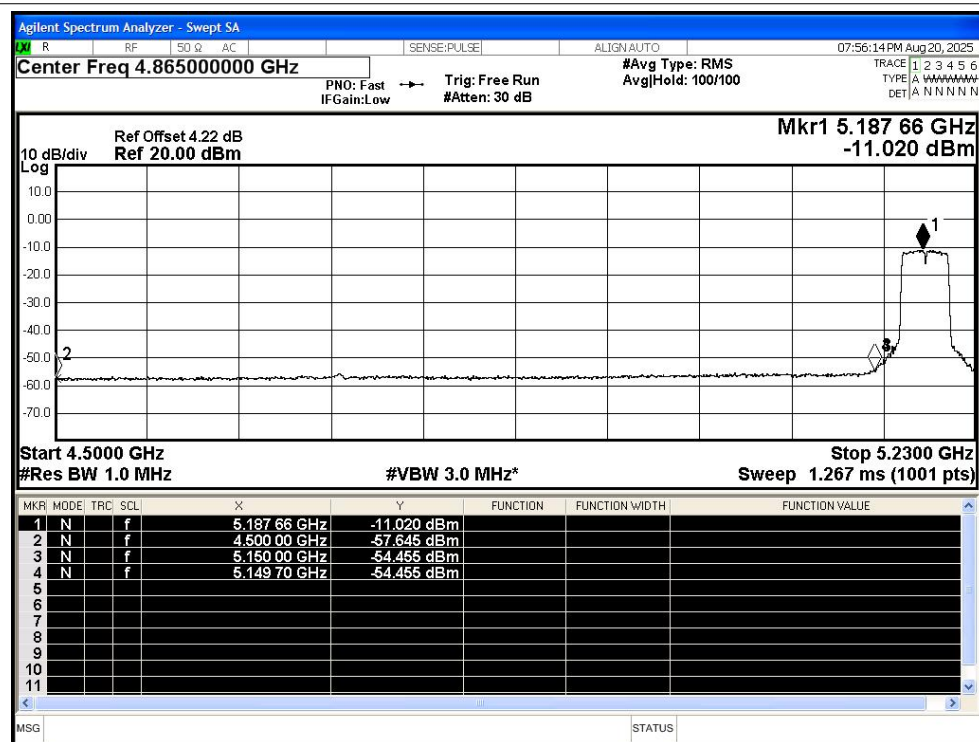


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Restrict Band NVNT n40 5190MHz Ant1 Peak

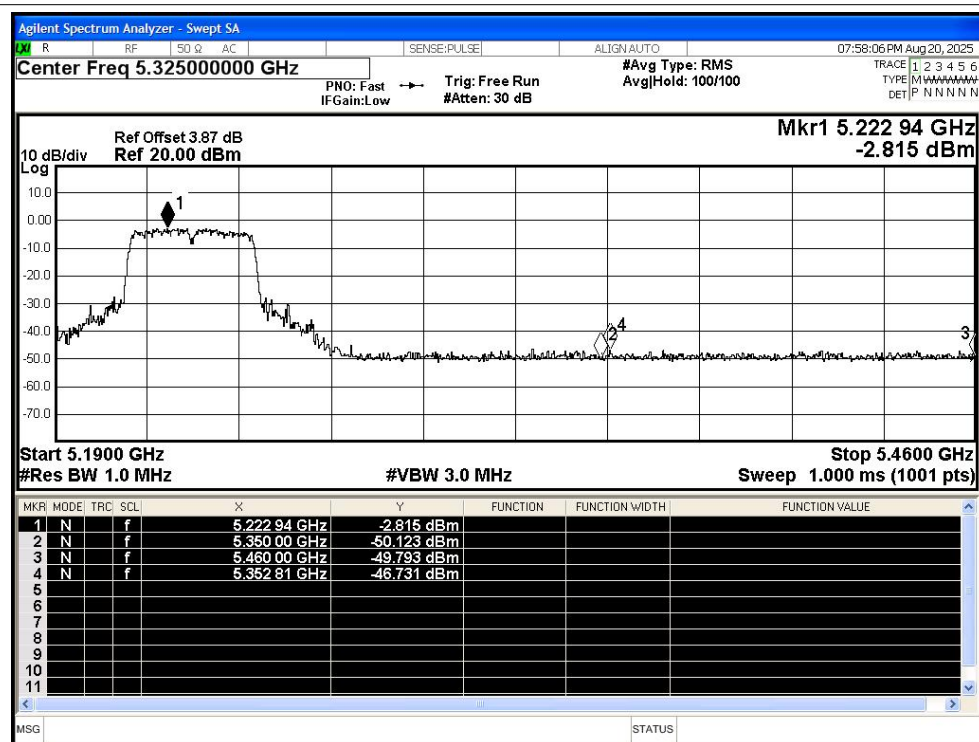


Restrict Band NVNT n40 5190MHz Ant1 Average

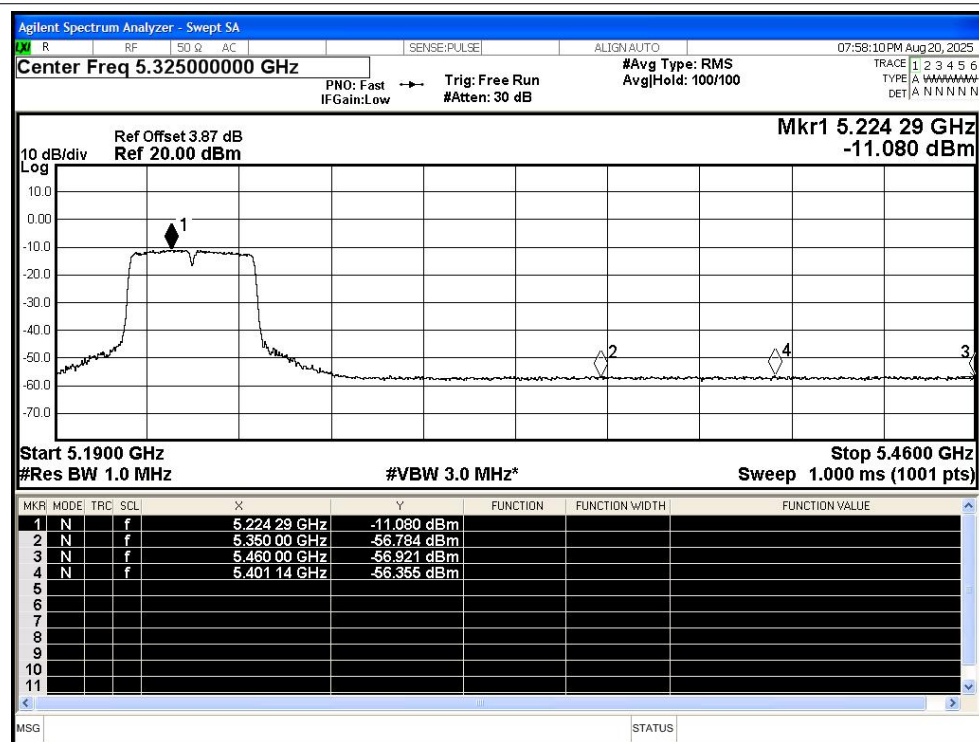


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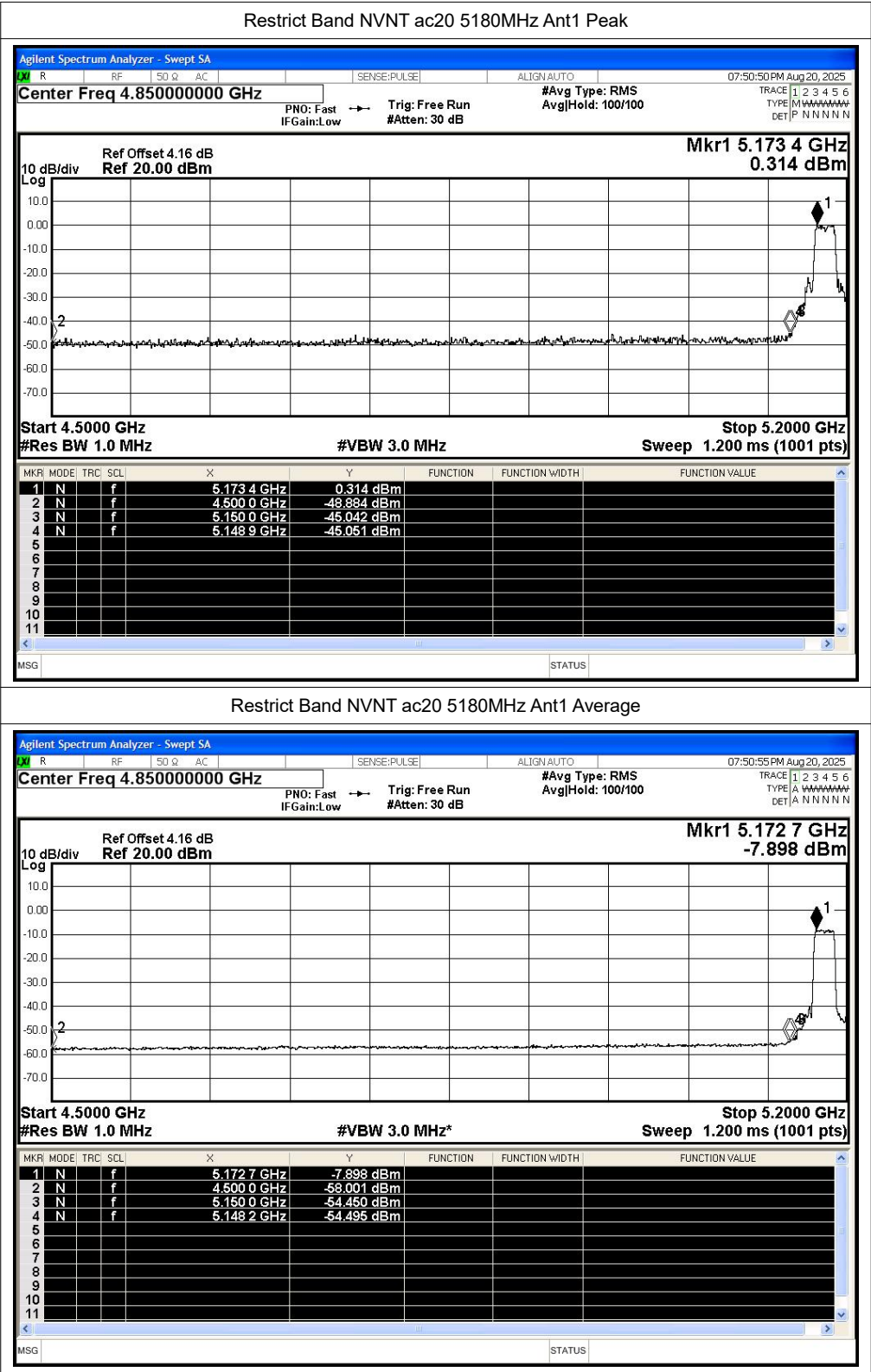
Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average

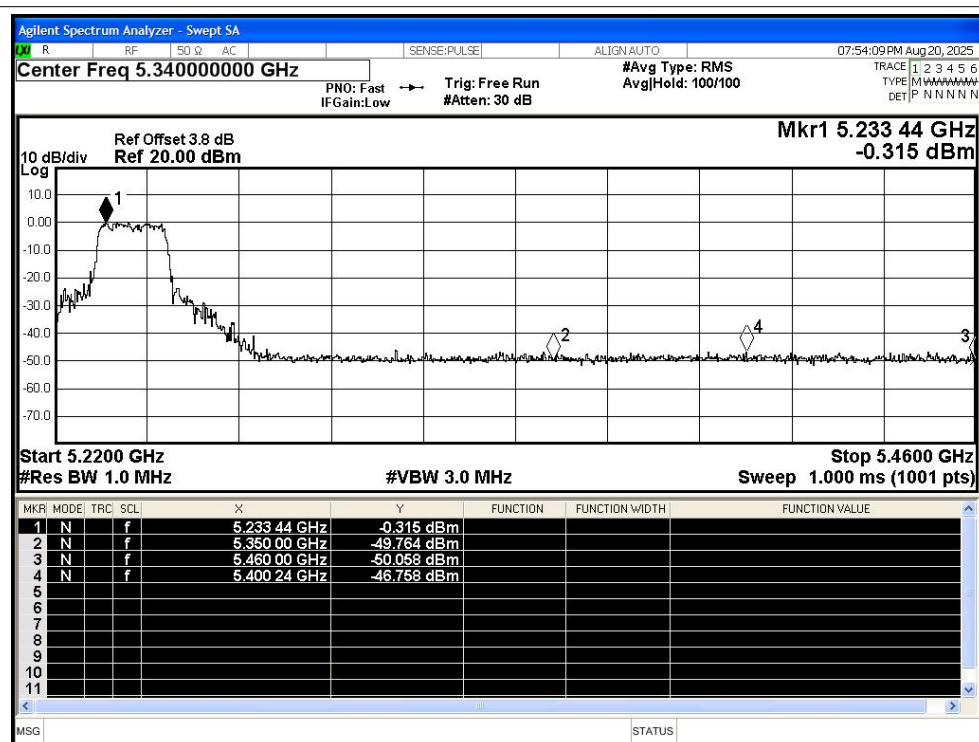


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Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average

