

FCC Appendix RF Test Data for UNII-1

FCC ID : 2BG9Y-MODELXXXPXXX

Company : Hyatta Digital Technology Co., Ltd.

EUT : Portable Data Terminal

Model Number : Model 7

Report No. : CTA26052902020

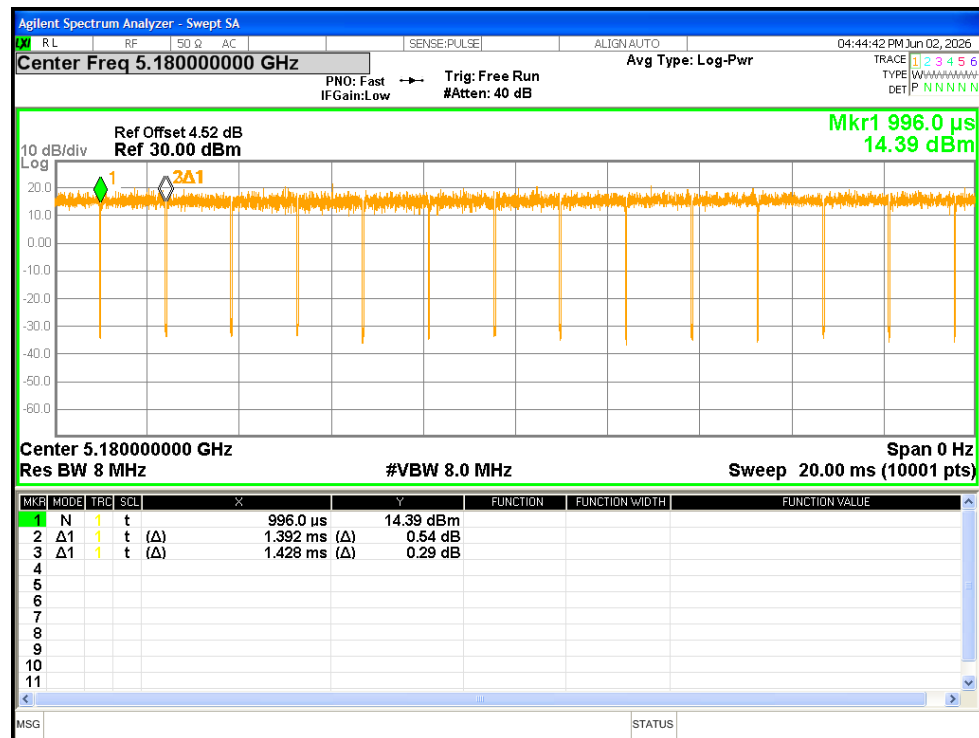
Reviewed By : Eric Wang

Duty Cycle

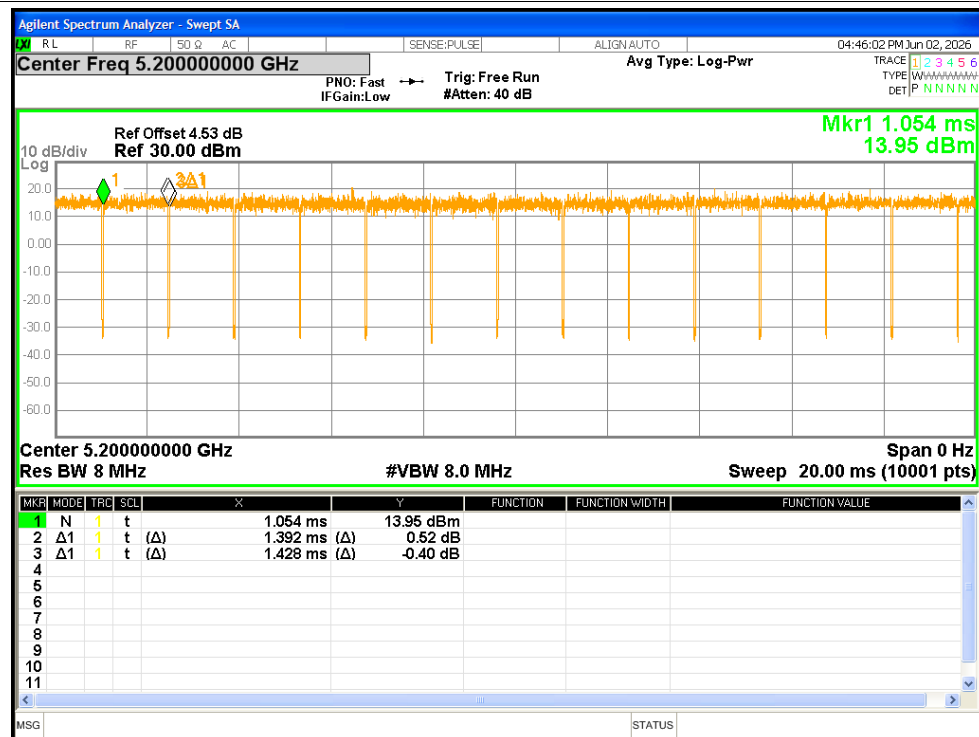
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Max Variation (%)
NVNT	a	5180	1.392	1.428	97.48	0.11	0.72	0.16
NVNT	a	5200	1.392	1.428	97.48	0.11	0.72	0.17
NVNT	a	5240	1.392	1.428	97.48	0.11	0.72	0.19
NVNT	n20	5180	1.302	1.338	97.31	0.12	0.77	0.20
NVNT	n20	5200	1.299	1.335	97.3	0.12	0.77	0.18
NVNT	n20	5240	1.299	1.335	97.3	0.12	0.77	0.14
NVNT	n40	5190	0.648	0.684	94.74	0.23	1.54	0.18
NVNT	n40	5230	0.648	0.684	94.74	0.23	1.54	0.15
NVNT	ac20	5180	1.311	1.347	97.33	0.12	0.76	0.22
NVNT	ac20	5200	1.314	1.347	97.55	0.11	0.76	0.18
NVNT	ac20	5240	1.314	1.35	97.33	0.12	0.76	0.15
NVNT	ac40	5190	0.648	0.684	94.74	0.23	1.54	0.12
NVNT	ac40	5230	0.648	0.681	95.15	0.22	1.54	0.11
NVNT	ac80	5210	0.325	0.359	90.53	0.43	3.08	0.13

Test Graphs

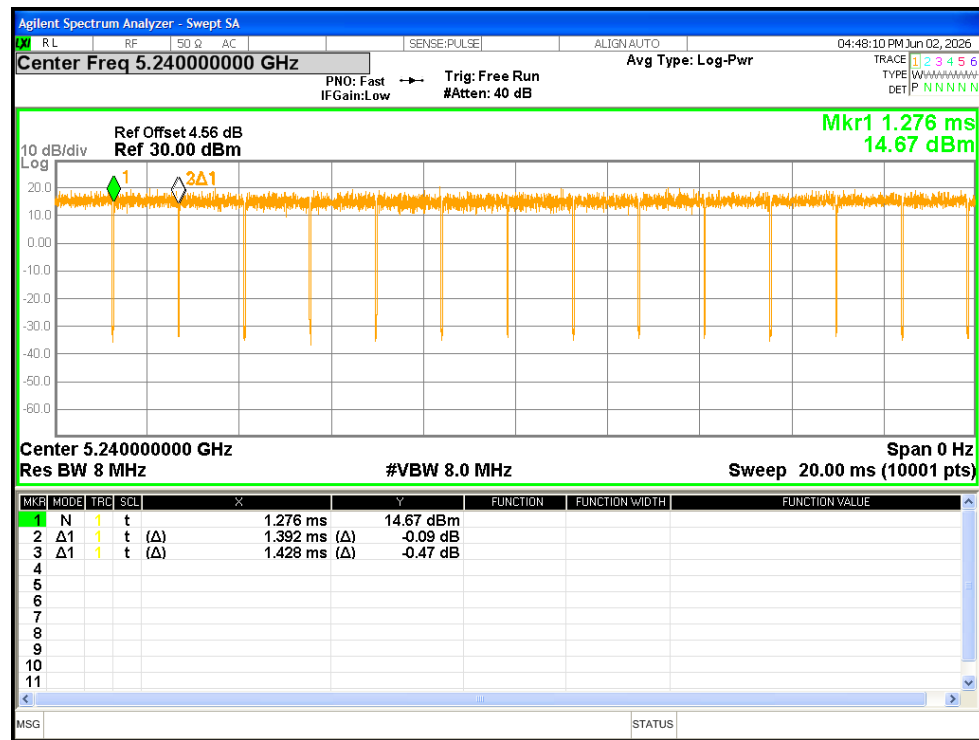
Duty Cycle NVNT a 5180MHz



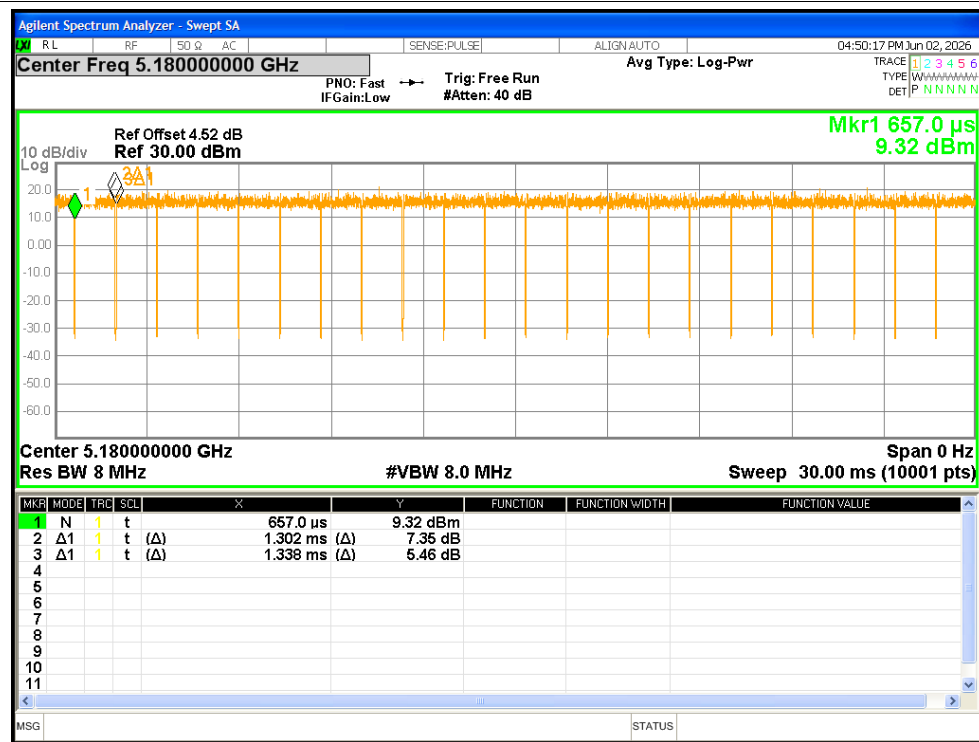
Duty Cycle NVNT a 5200MHz



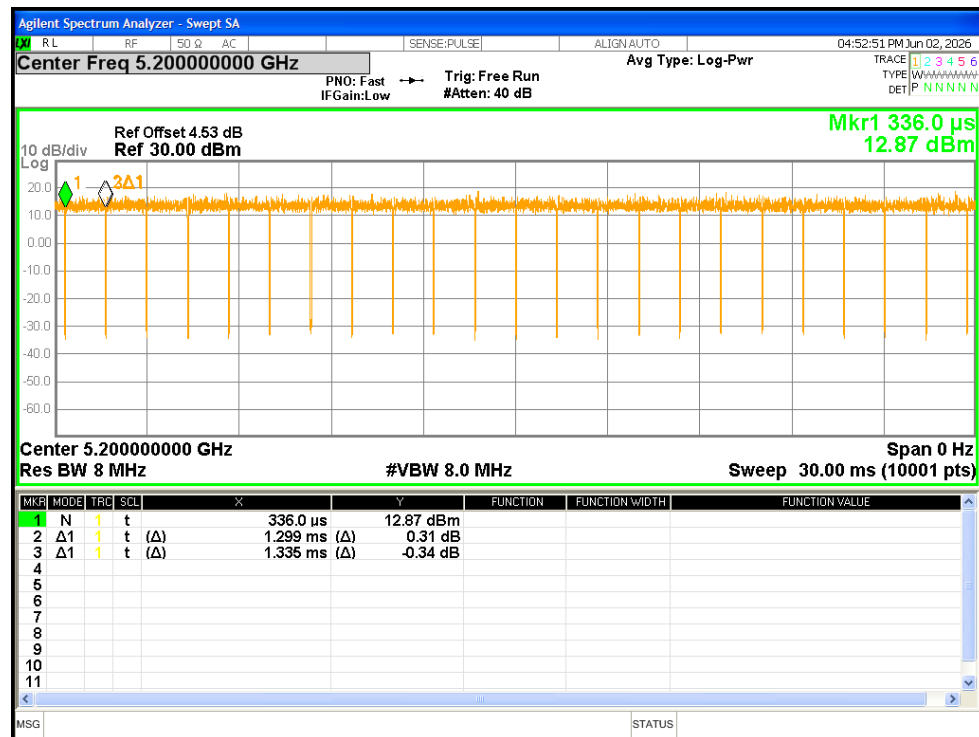
Duty Cycle NVNT a 5240MHz



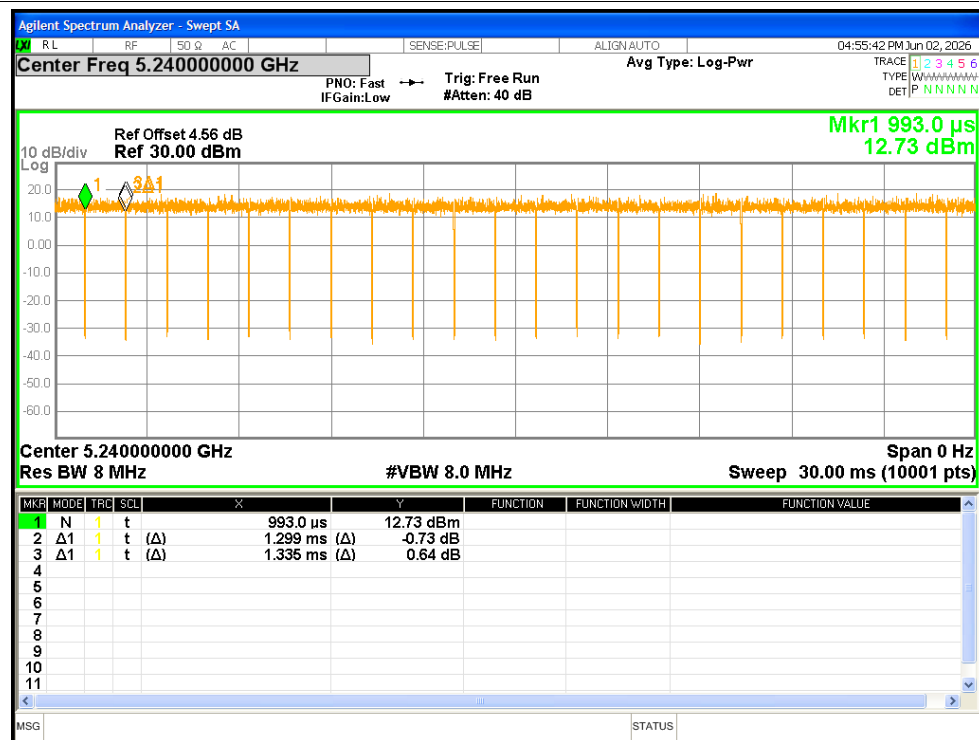
Duty Cycle NVNT n20 5180MHz



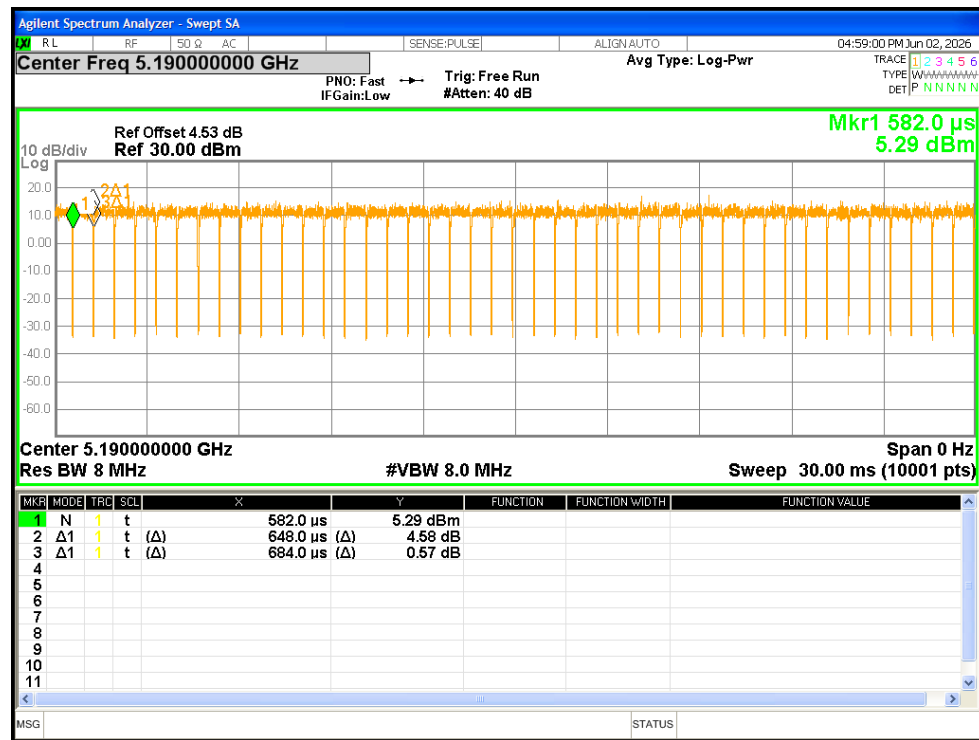
Duty Cycle NVNT n20 5200MHz



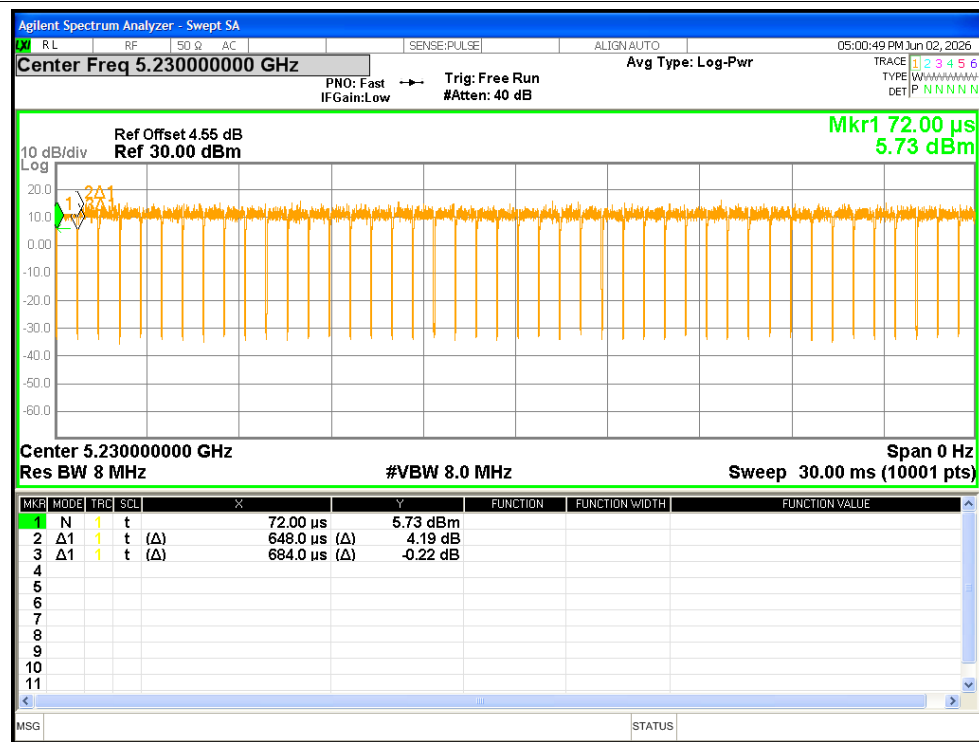
Duty Cycle NVNT n20 5240MHz



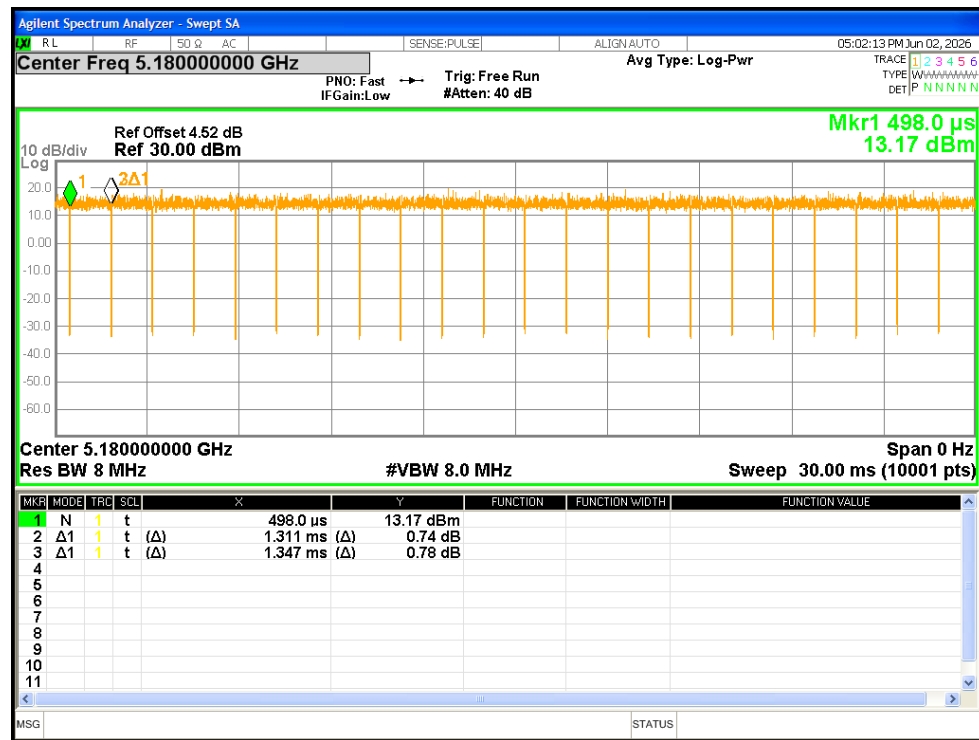
Duty Cycle NVNT n40 5190MHz



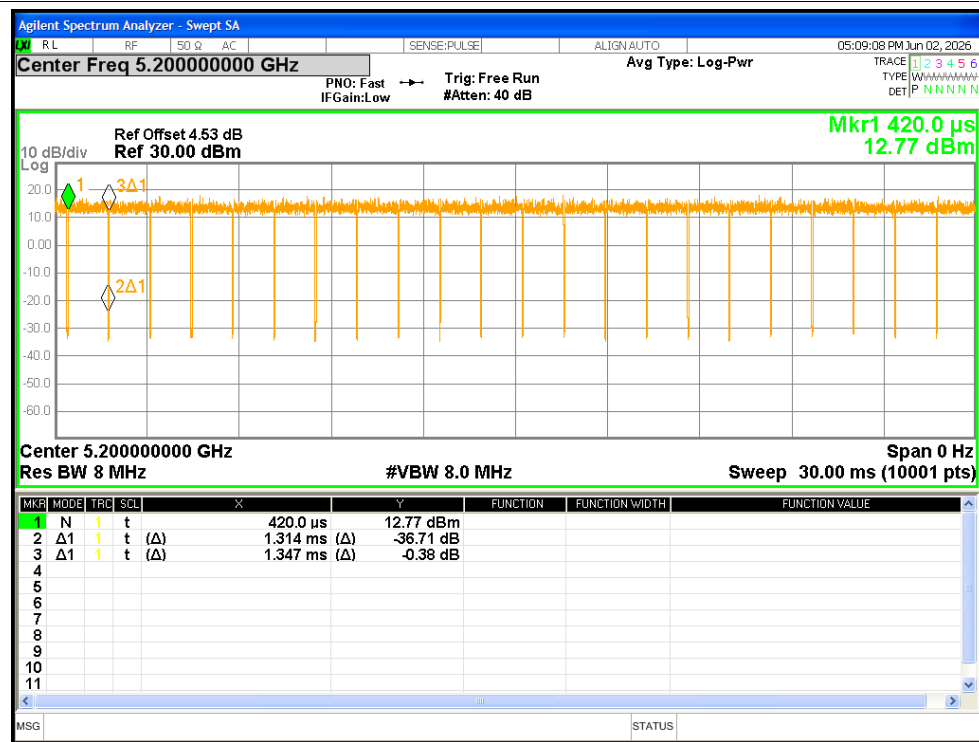
Duty Cycle NVNT n40 5230MHz



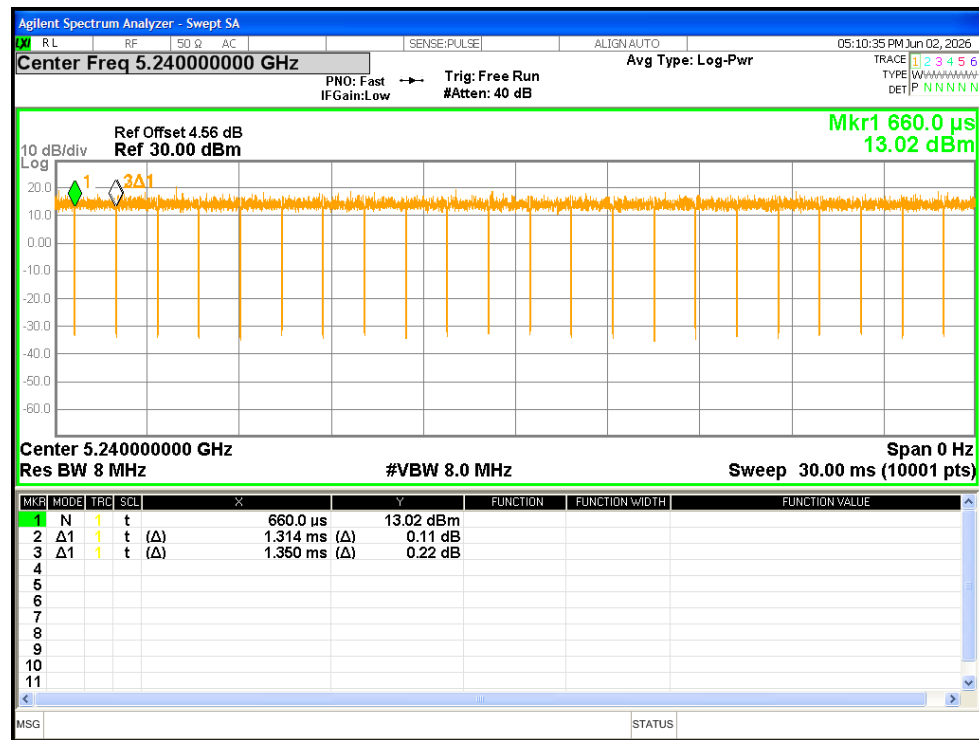
Duty Cycle NVNT ac20 5180MHz



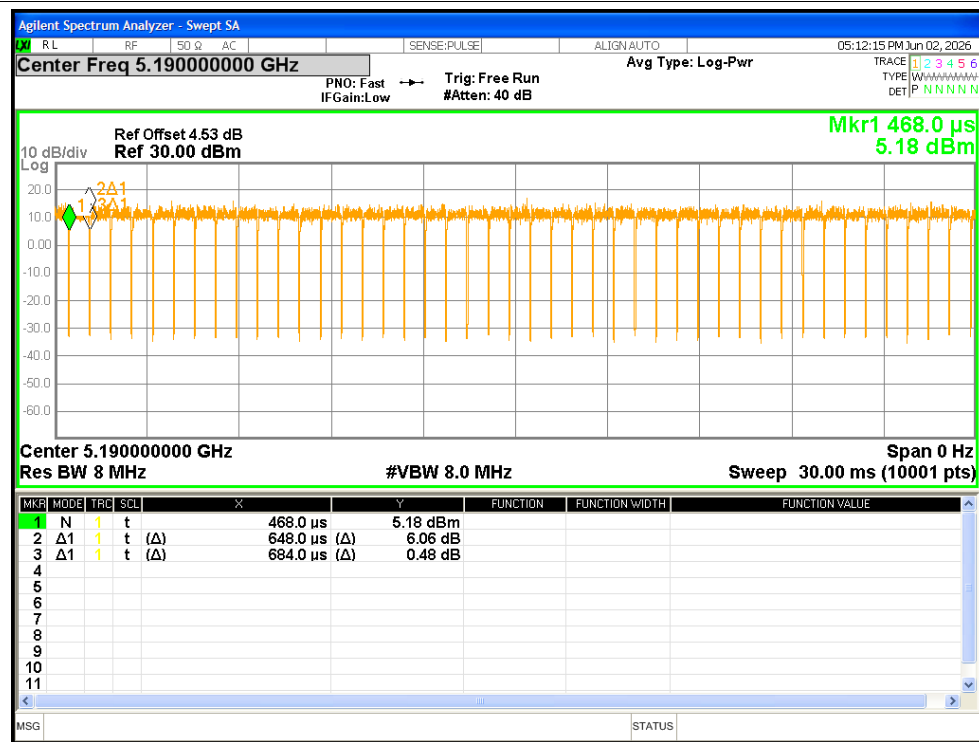
Duty Cycle NVNT ac20 5200MHz



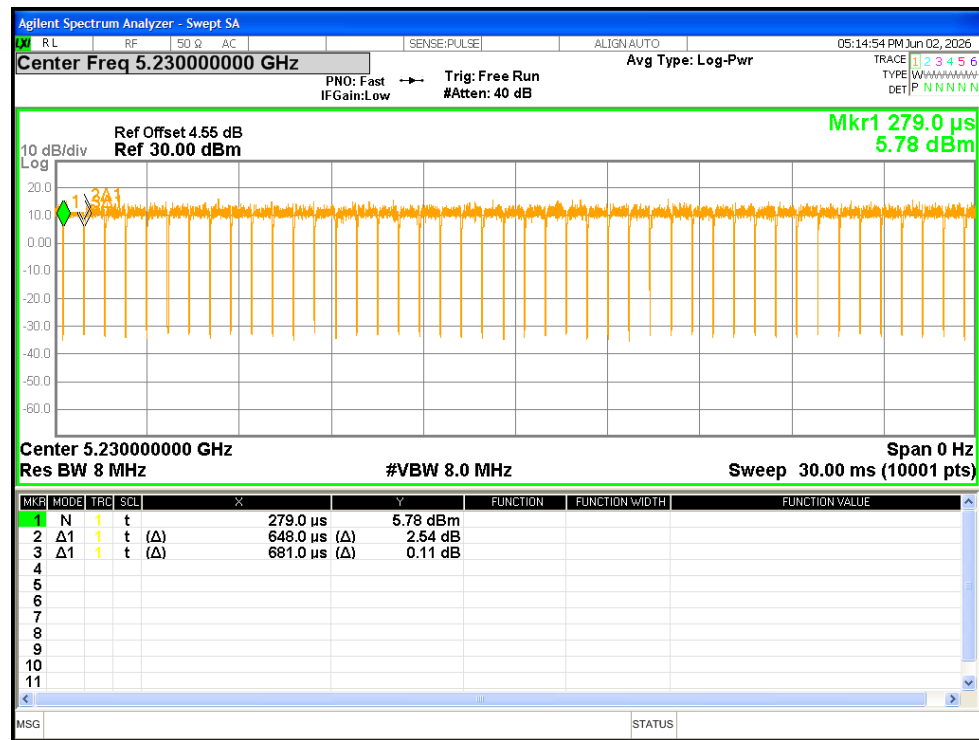
Duty Cycle NVNT ac20 5240MHz



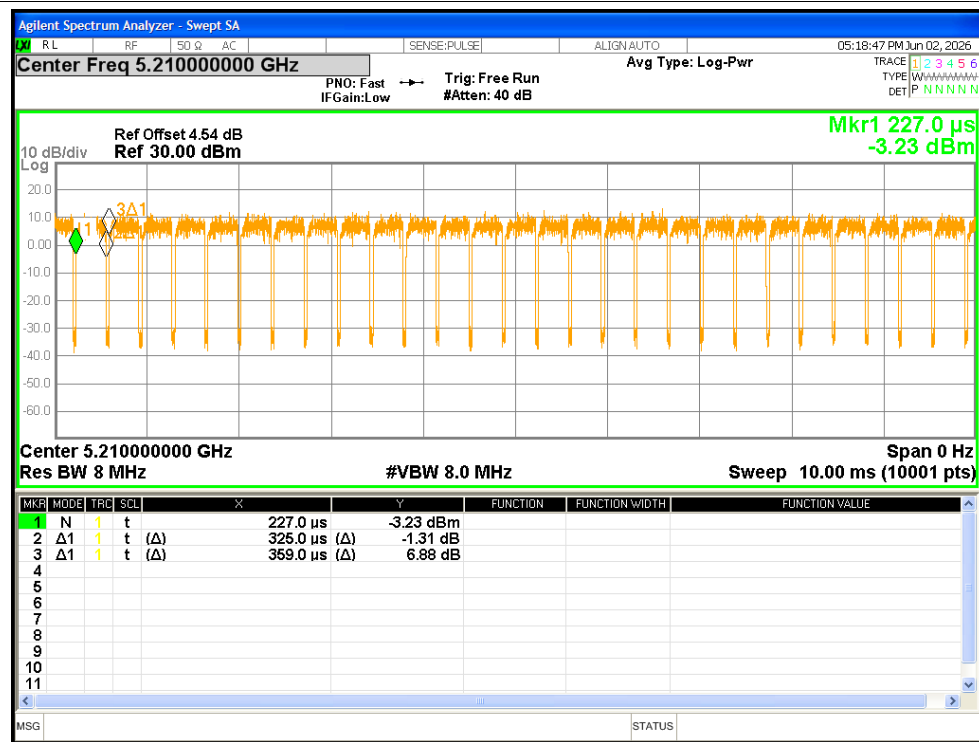
Duty Cycle NVNT ac40 5190MHz



Duty Cycle NVNT ac40 5230MHz



Duty Cycle NVNT ac80 5210MHz



Maximum Output Power

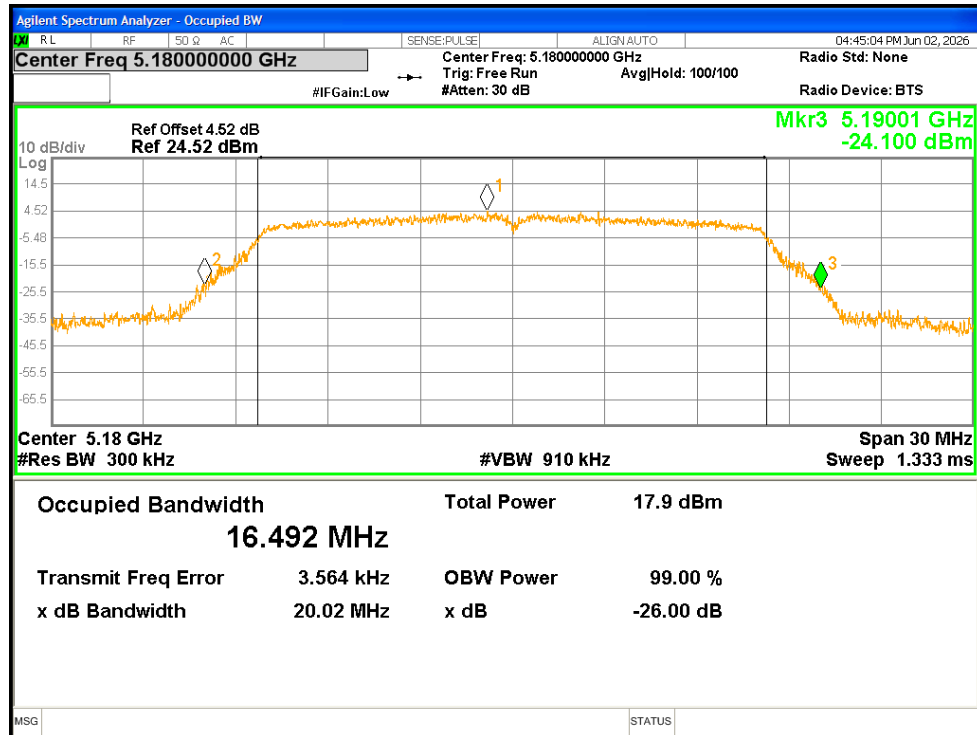
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	12.33	0.11	12.44	<=24	Pass
NVNT	a	5200	11.71	0.11	11.82	<=24	Pass
NVNT	a	5240	12.2	0.11	12.31	<=24	Pass
NVNT	n20	5180	11.02	0.12	11.14	<=24	Pass
NVNT	n20	5200	10.39	0.12	10.51	<=24	Pass
NVNT	n20	5240	10.9	0.12	11.02	<=24	Pass
NVNT	n40	5190	10.67	0.23	10.9	<=24	Pass
NVNT	n40	5230	10.65	0.23	10.88	<=24	Pass
NVNT	ac20	5180	11	0.12	11.12	<=24	Pass
NVNT	ac20	5200	10.37	0.11	10.48	<=24	Pass
NVNT	ac20	5240	10.87	0.12	10.99	<=24	Pass
NVNT	ac40	5190	10.67	0.23	10.9	<=24	Pass
NVNT	ac40	5230	10.69	0.22	10.91	<=24	Pass
NVNT	ac80	5210	11	0.43	11.43	<=24	Pass

-26dB Bandwidth

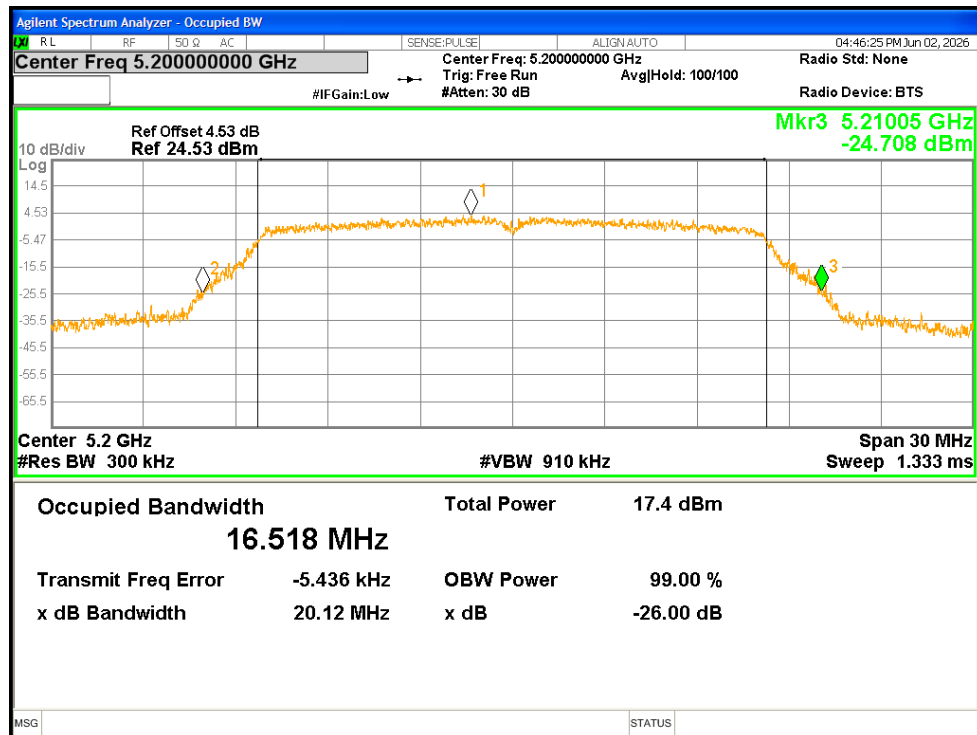
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	20.02	Pass
NVNT	a	5200	20.12	Pass
NVNT	a	5240	19.94	Pass
NVNT	n20	5180	20.37	Pass
NVNT	n20	5200	20.32	Pass
NVNT	n20	5240	20.3	Pass
NVNT	n40	5190	40.49	Pass
NVNT	n40	5230	40.57	Pass
NVNT	ac20	5180	20.17	Pass
NVNT	ac20	5200	20.3	Pass
NVNT	ac20	5240	20.23	Pass
NVNT	ac40	5190	40.46	Pass
NVNT	ac40	5230	40.89	Pass
NVNT	ac80	5210	82.2	Pass

Test Graphs

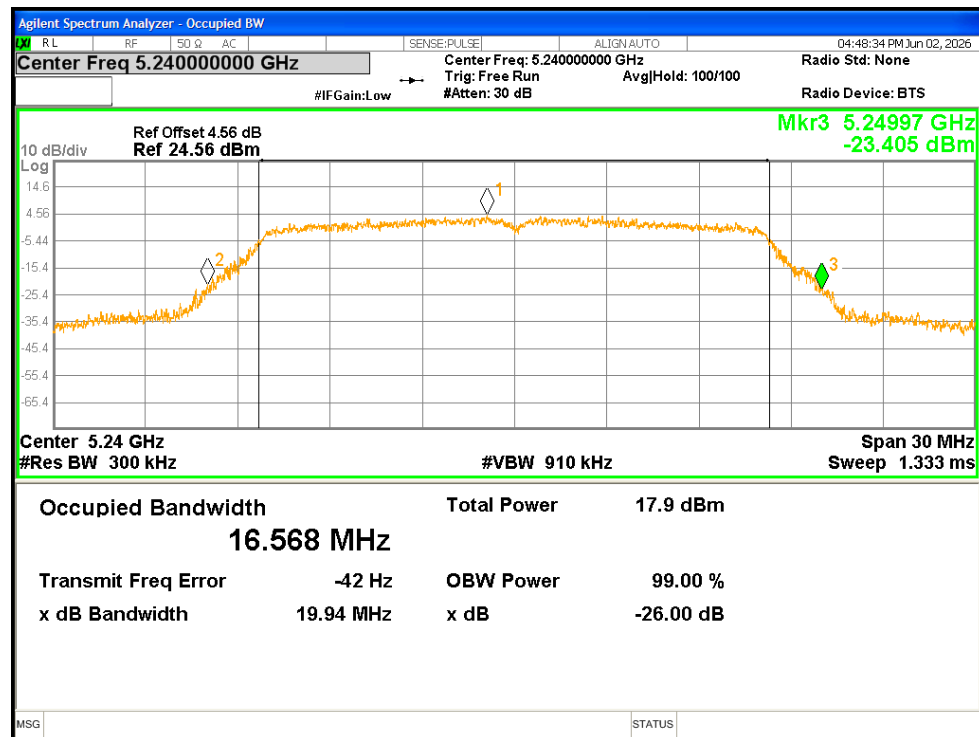
-26dB Bandwidth NVNT a 5180MHz



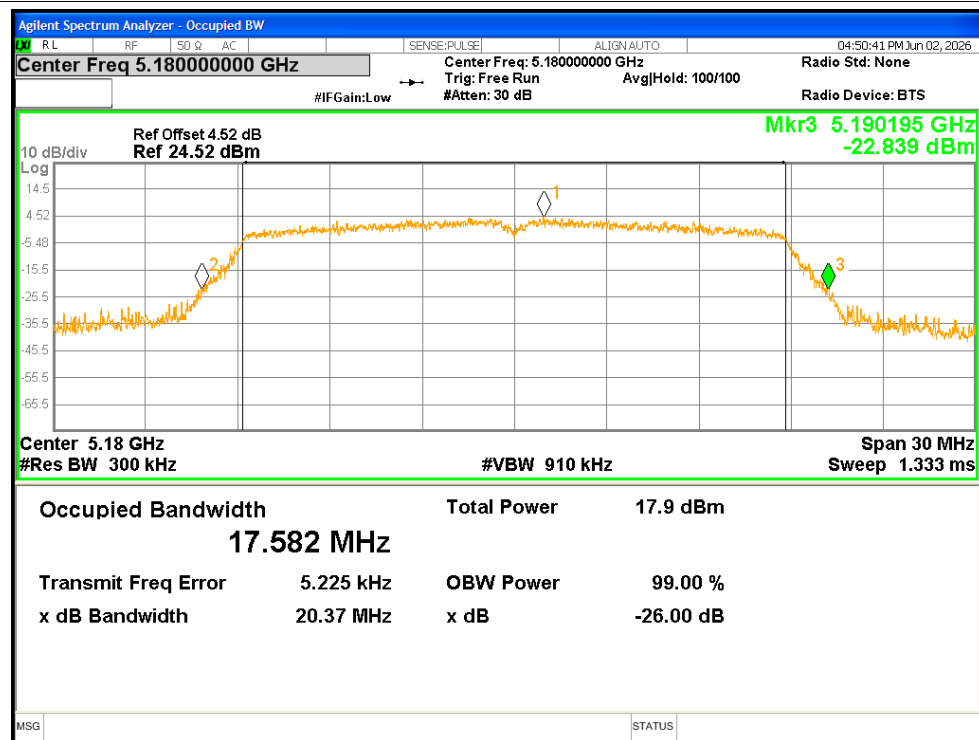
-26dB Bandwidth NVNT a 5200MHz



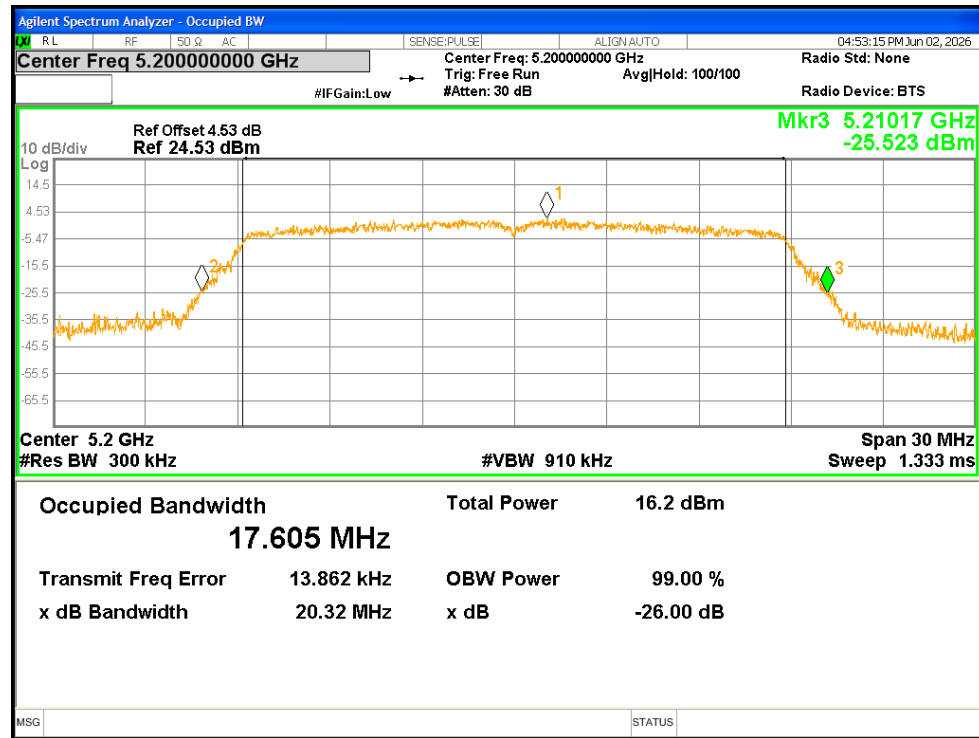
-26dB Bandwidth NVNT a 5240MHz



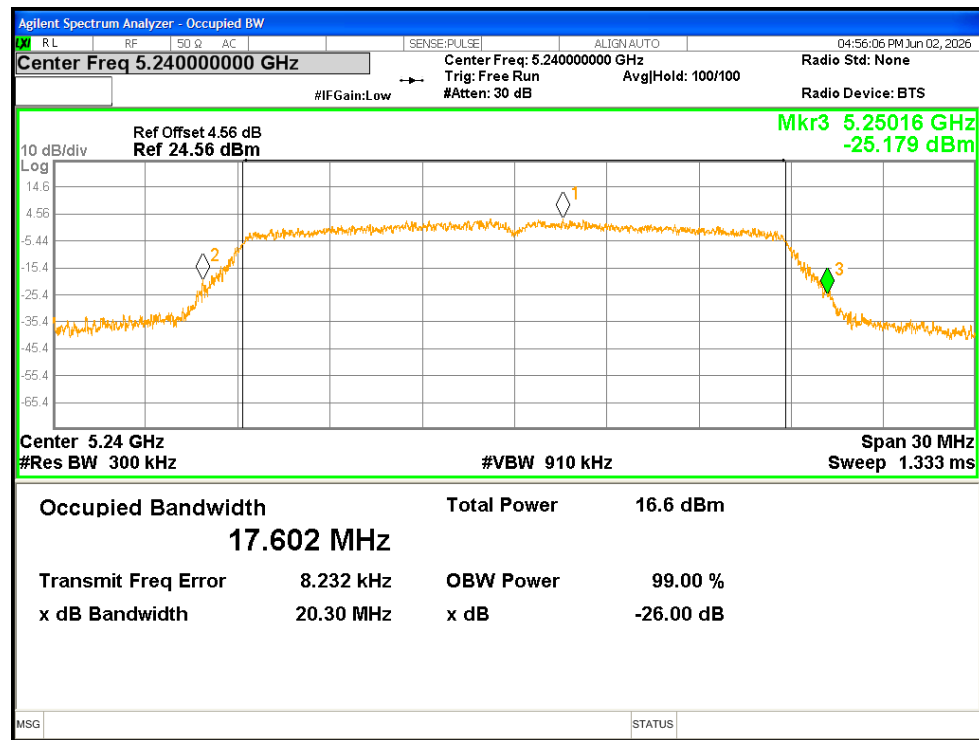
-26dB Bandwidth NVNT n20 5180MHz



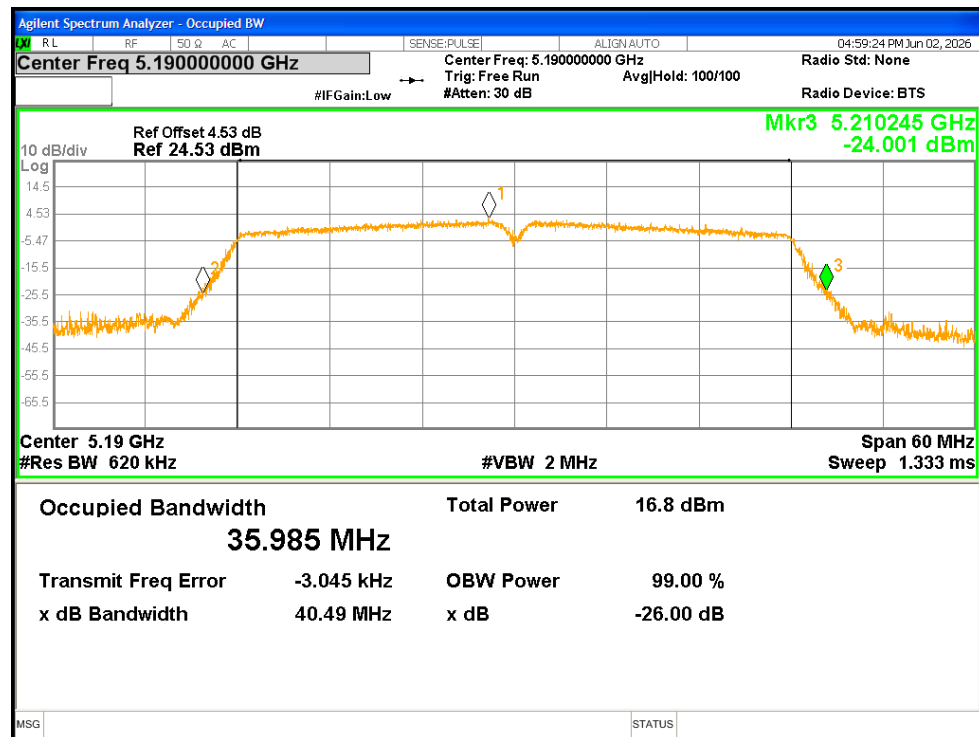
-26dB Bandwidth NVNT n20 5200MHz



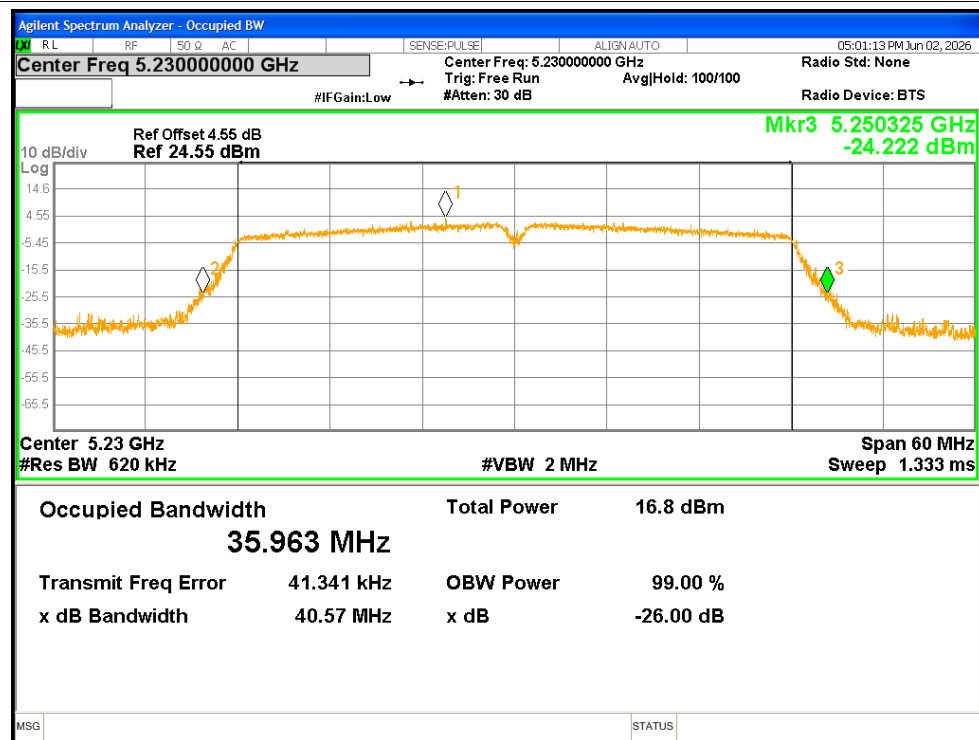
-26dB Bandwidth NVNT n20 5240MHz



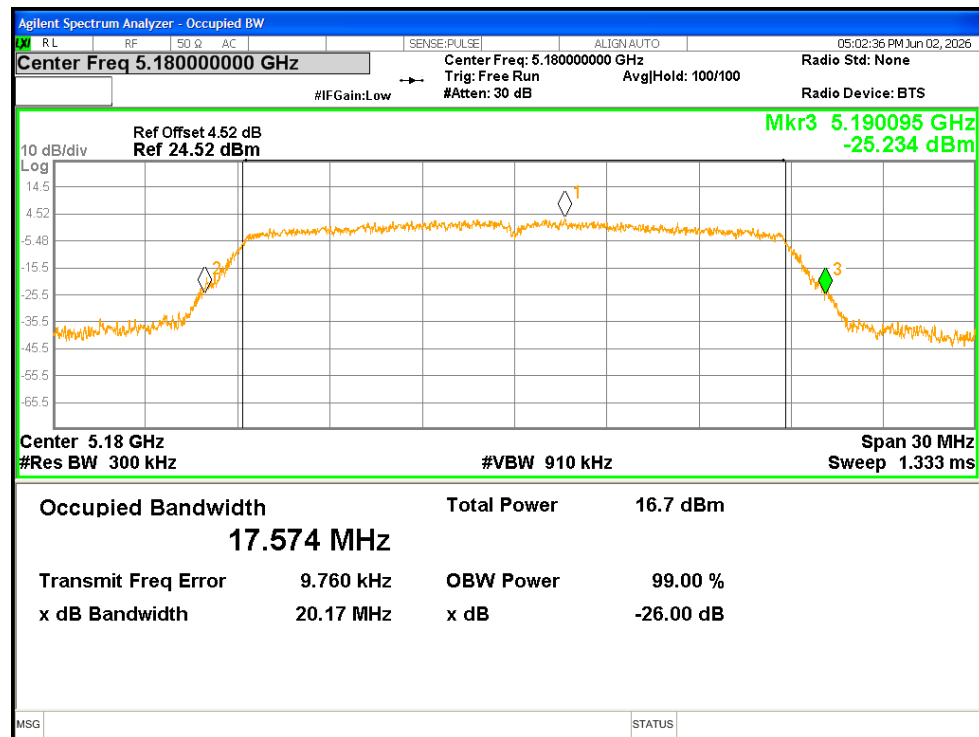
-26dB Bandwidth NVNT n40 5190MHz



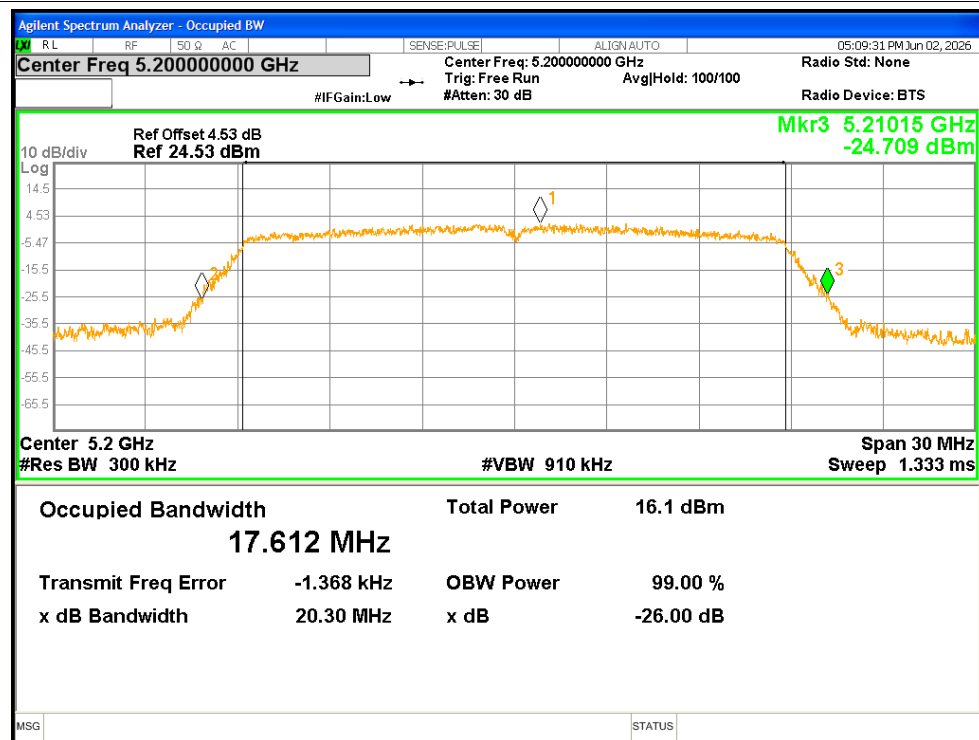
-26dB Bandwidth NVNT n40 5230MHz



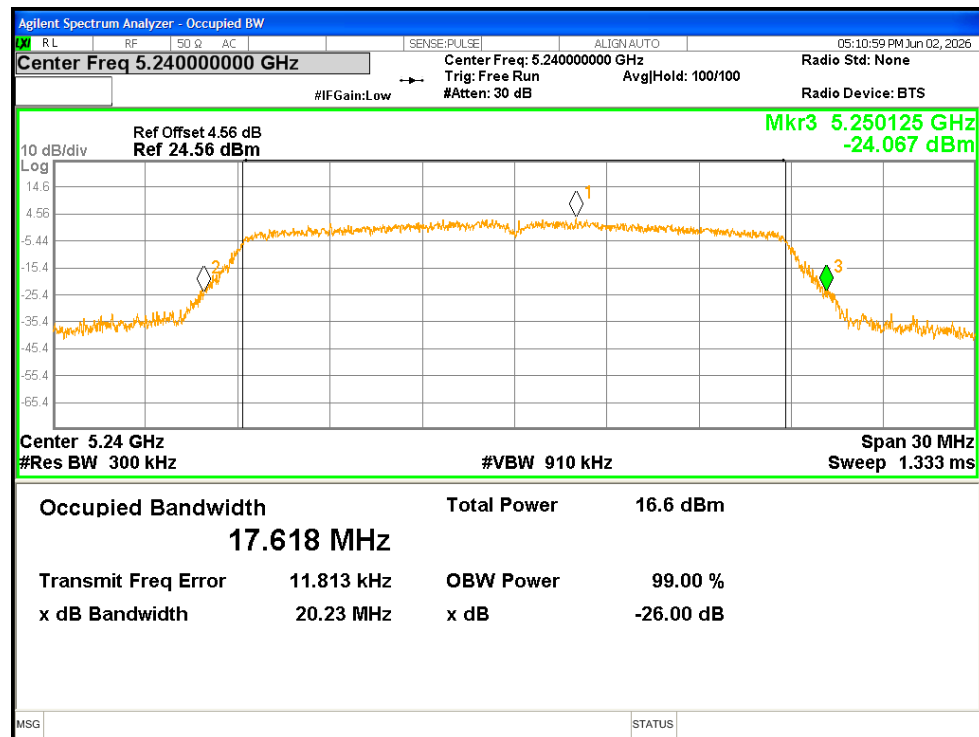
-26dB Bandwidth NVNT ac20 5180MHz



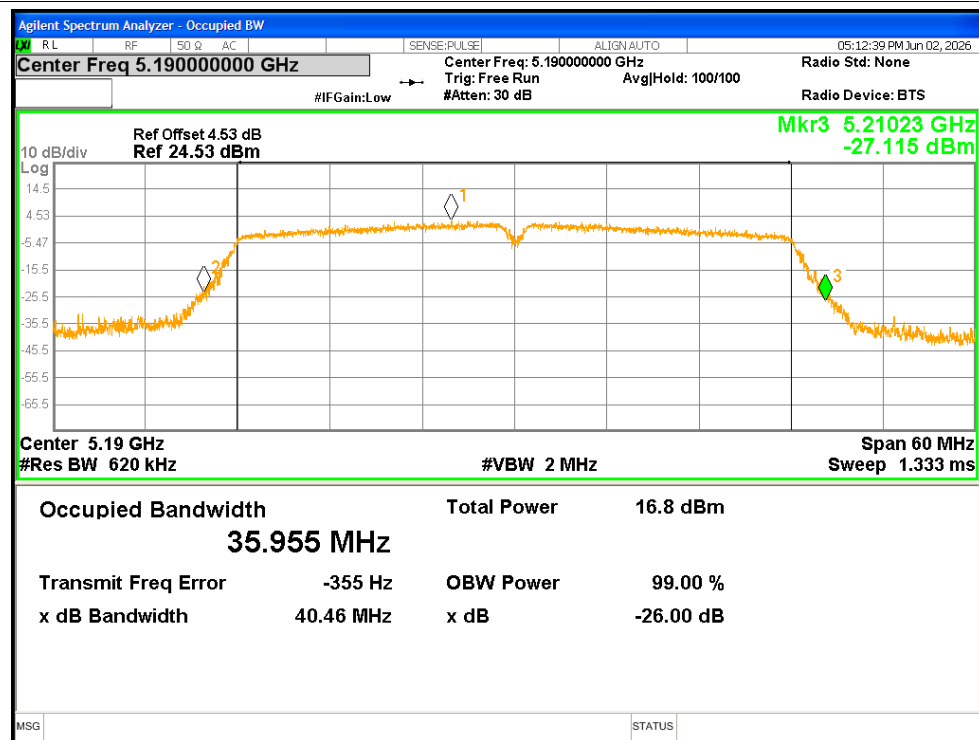
-26dB Bandwidth NVNT ac20 5200MHz



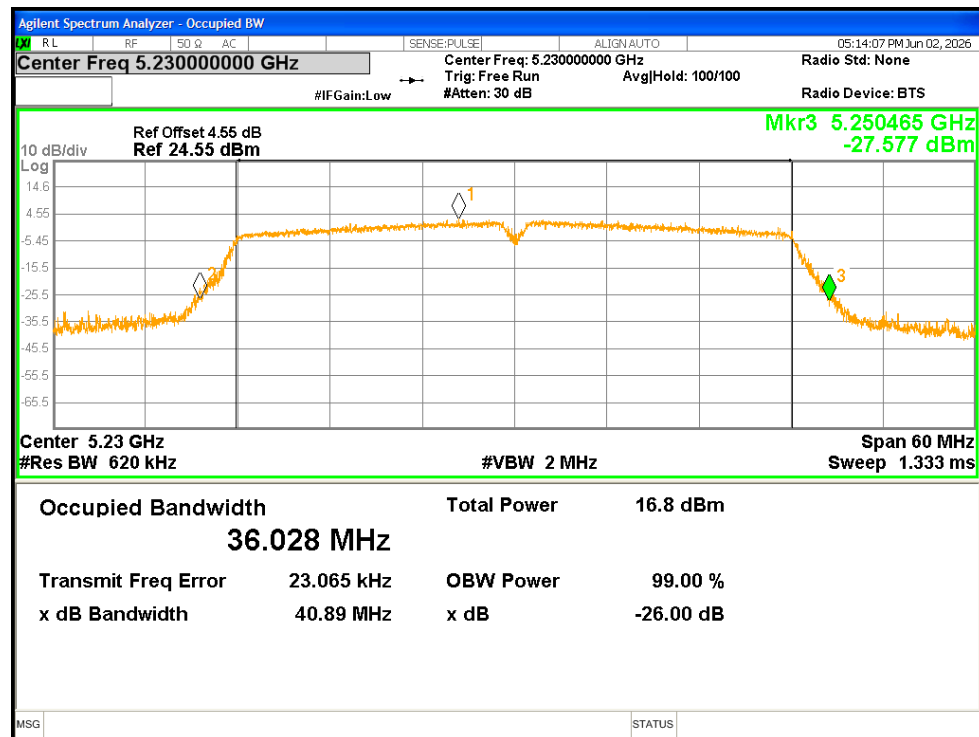
-26dB Bandwidth NVNT ac20 5240MHz



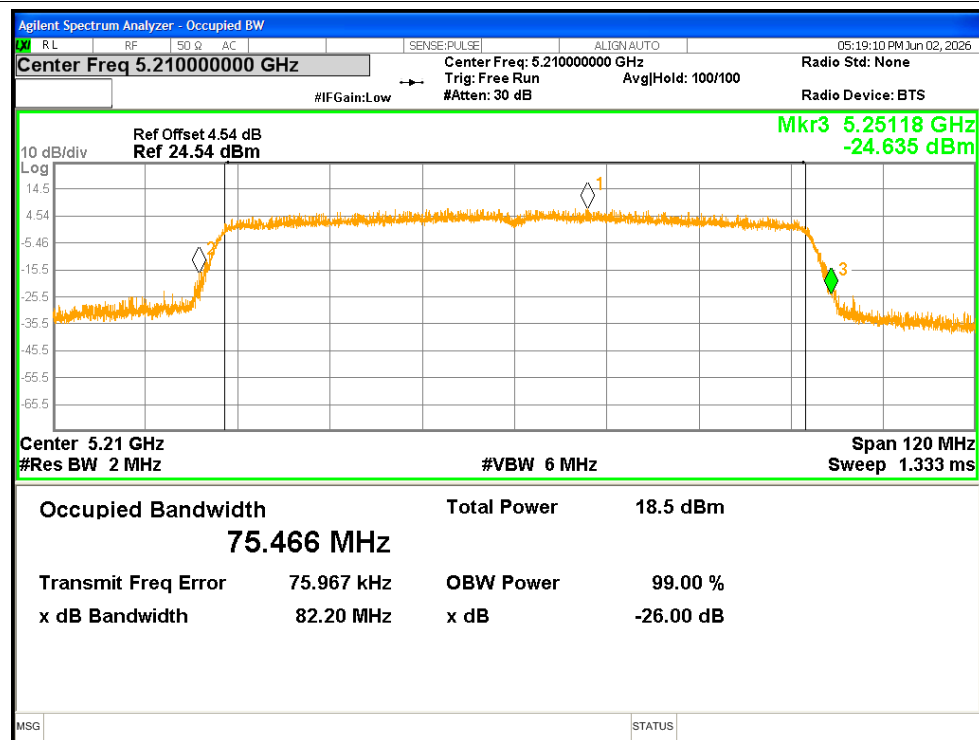
-26dB Bandwidth NVNT ac40 5190MHz



-26dB Bandwidth NVNT ac40 5230MHz



-26dB Bandwidth NVNT ac80 5210MHz

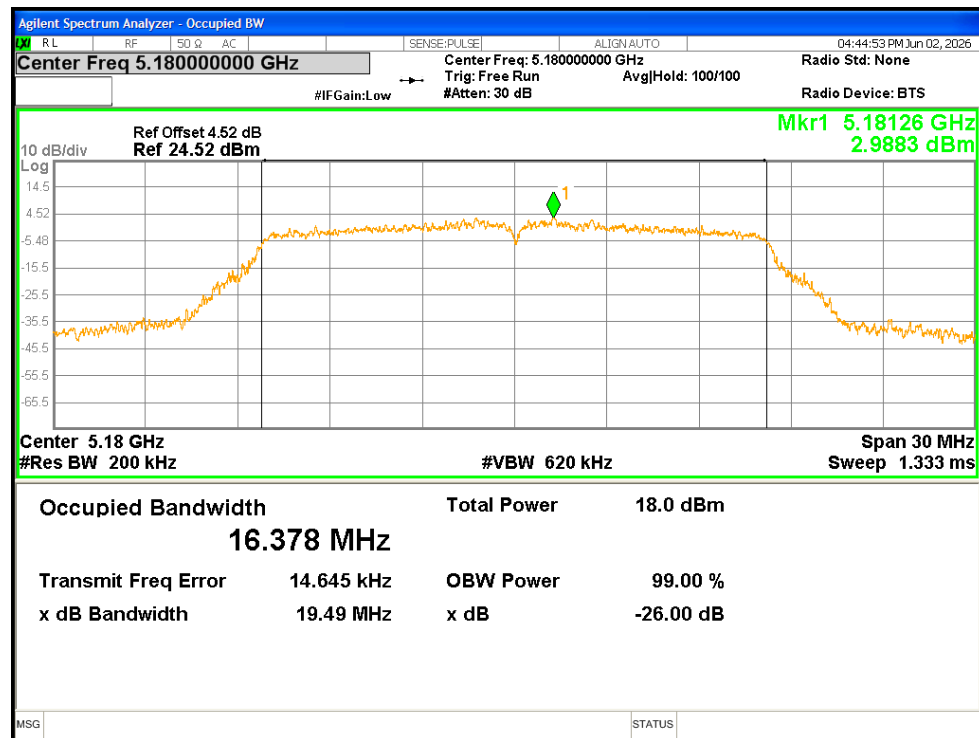


Occupied Channel Bandwidth

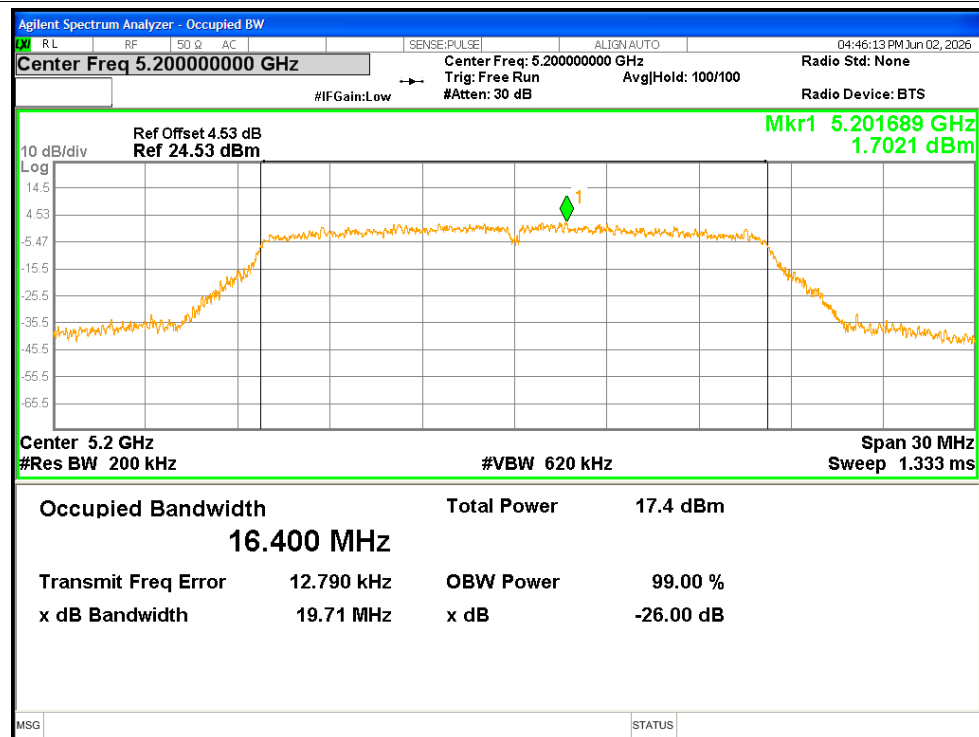
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.378
NVNT	a	5200	16.4
NVNT	a	5240	16.367
NVNT	n20	5180	17.523
NVNT	n20	5200	17.556
NVNT	n20	5240	17.502
NVNT	n40	5190	35.957
NVNT	n40	5230	35.966
NVNT	ac20	5180	17.531
NVNT	ac20	5200	17.561
NVNT	ac20	5240	17.546
NVNT	ac40	5190	35.91
NVNT	ac40	5230	35.907
NVNT	ac80	5210	75.24

Test Graphs

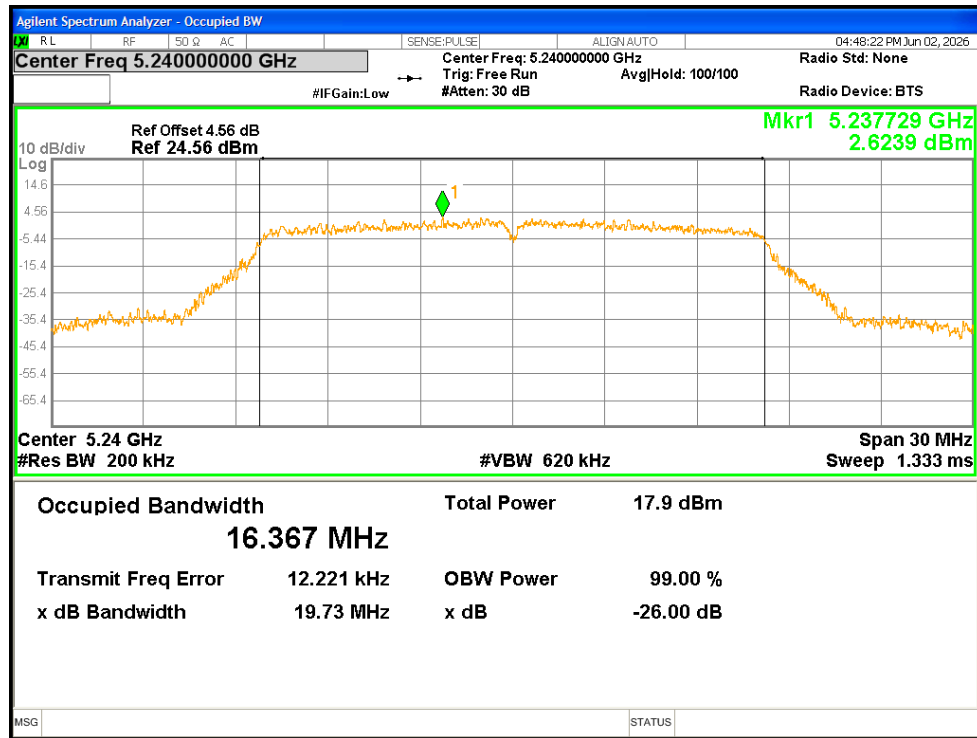
OBW NVNT a 5180MHz



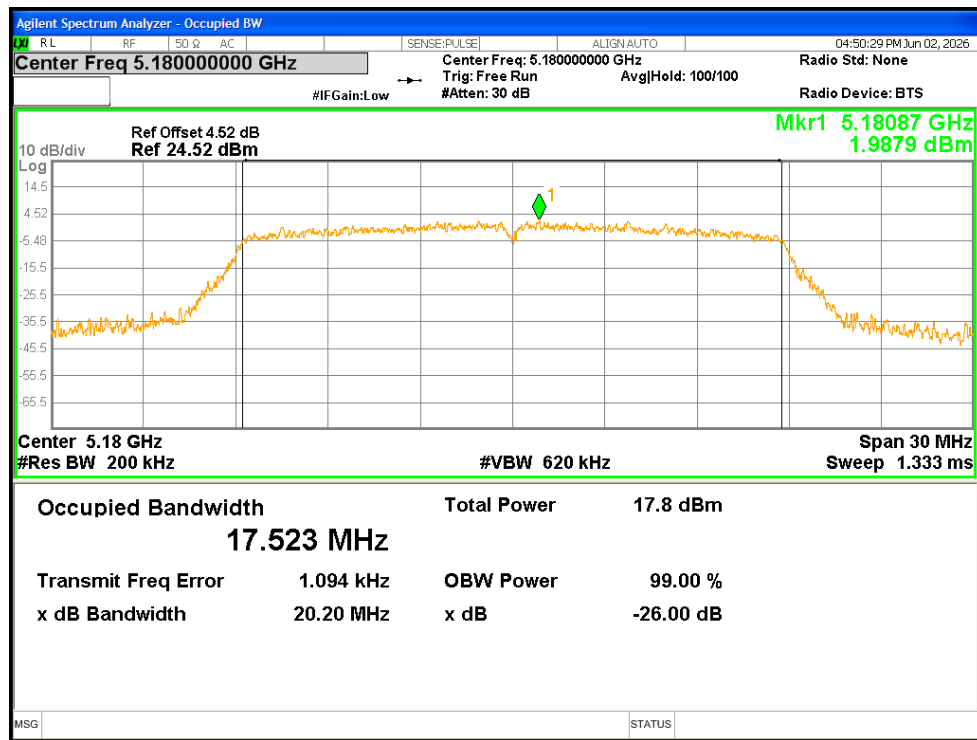
OBW NVNT a 5200MHz



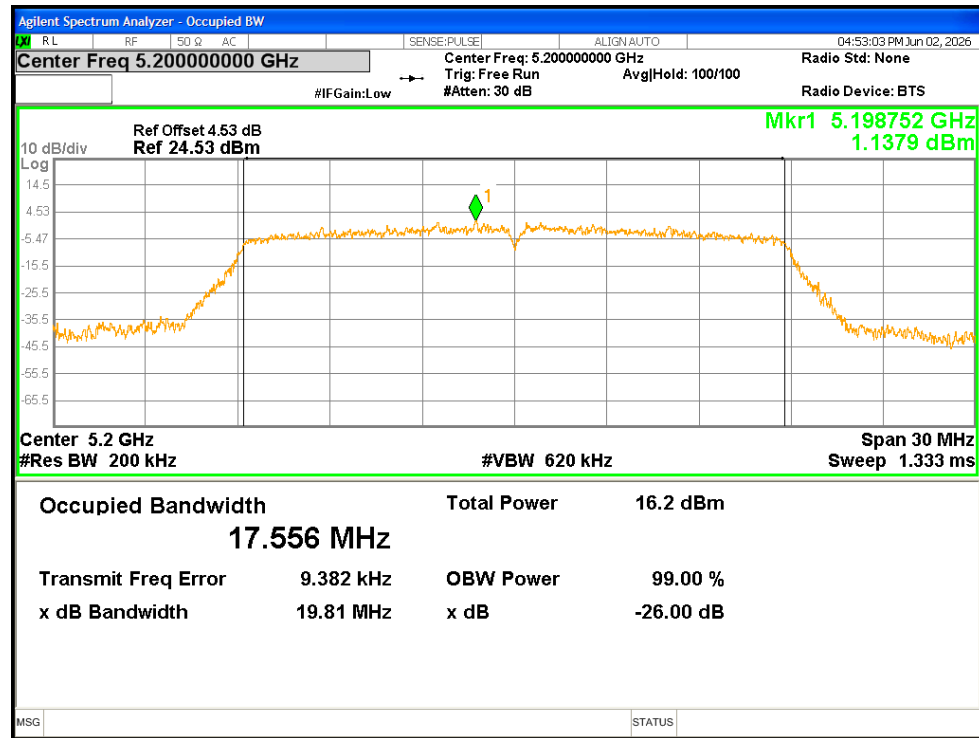
OBW NVNT a 5240MHz



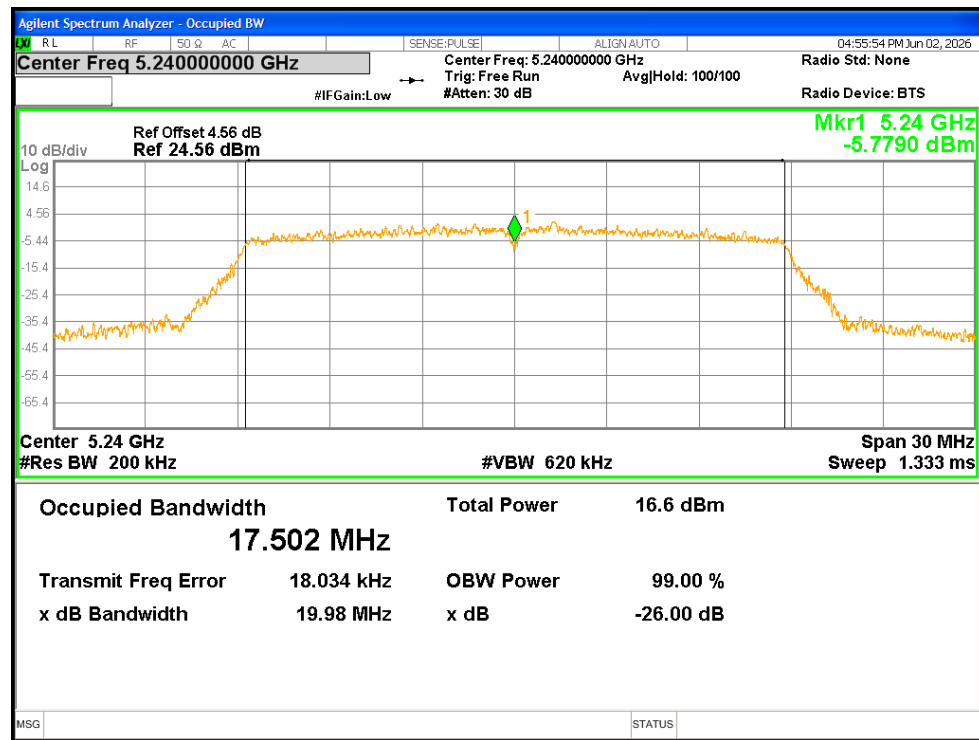
OBW NVNT n20 5180MHz



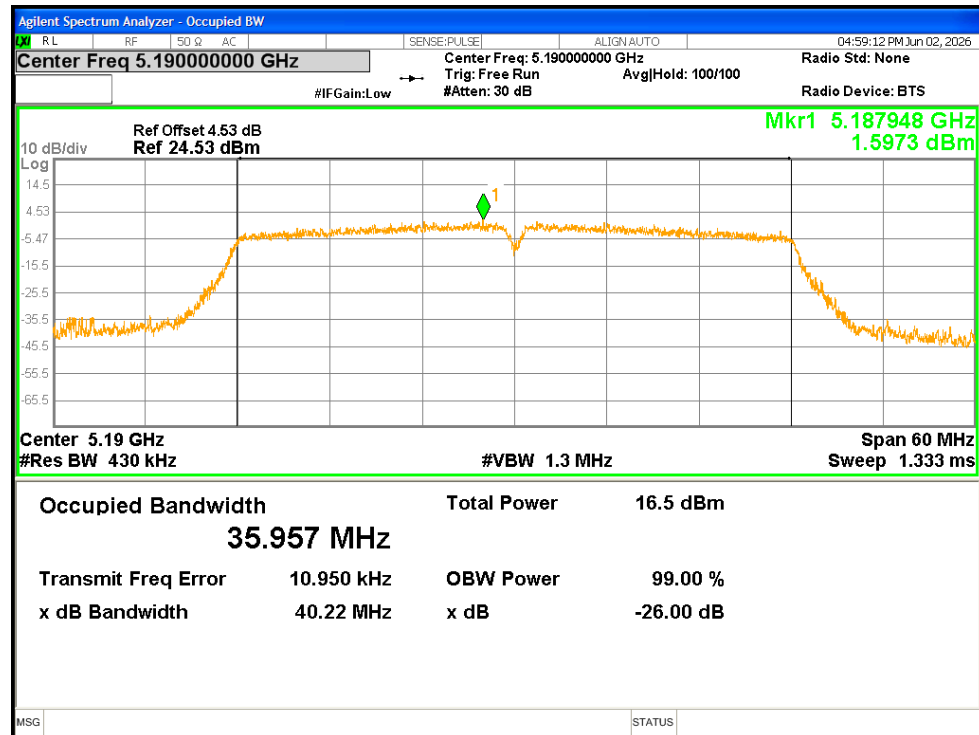
OBW NVNT n20 5200MHz



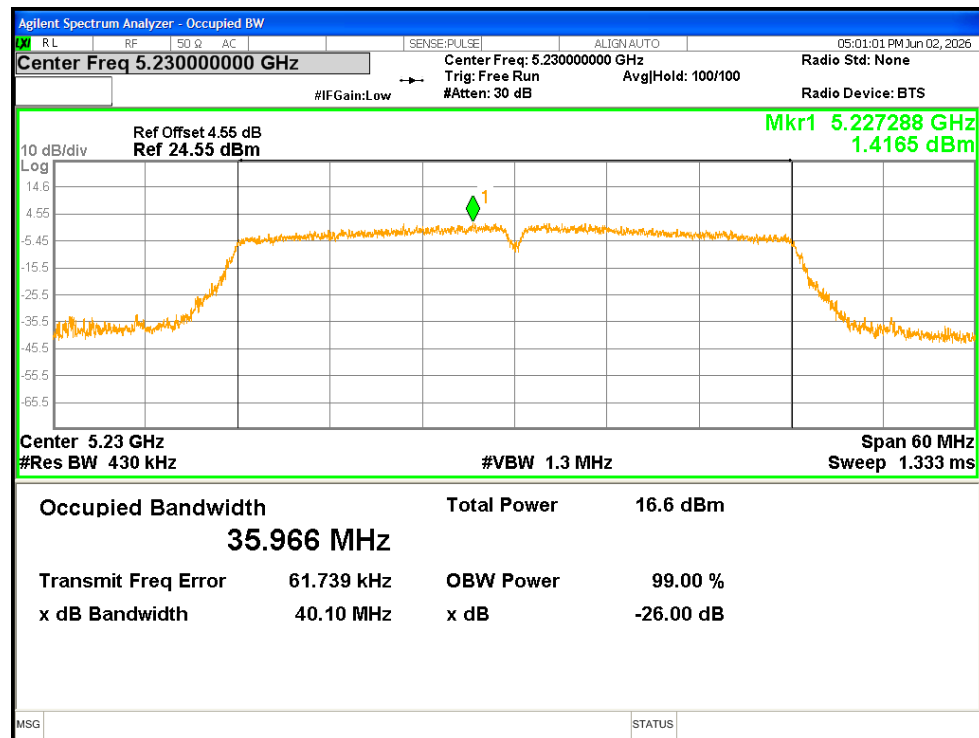
OBW NVNT n20 5240MHz



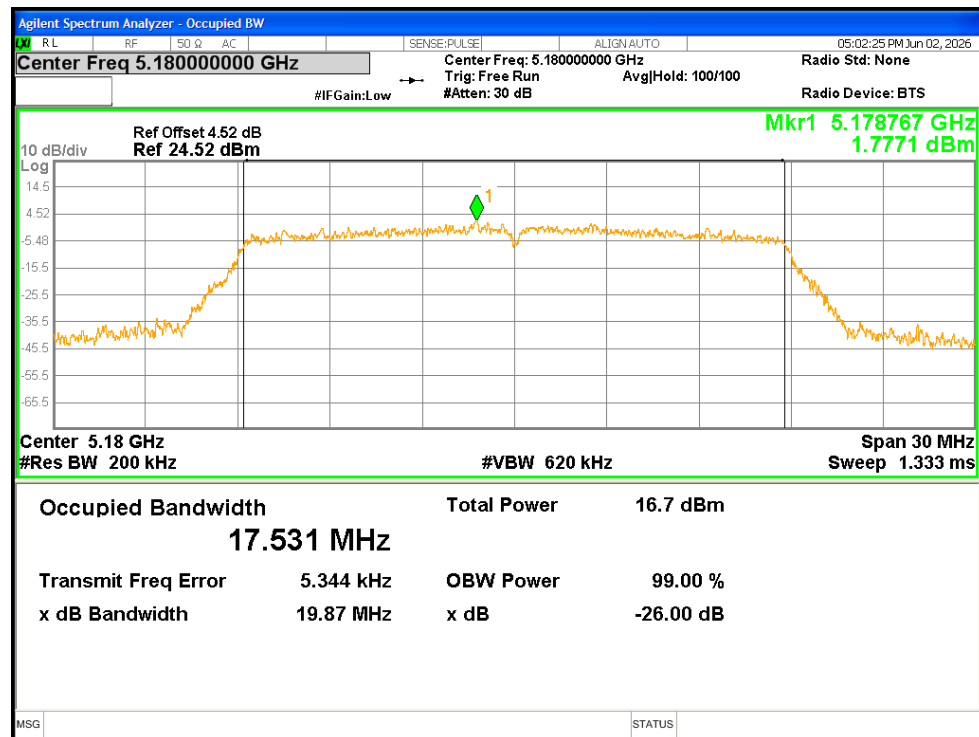
OBW NVNT n40 5190MHz



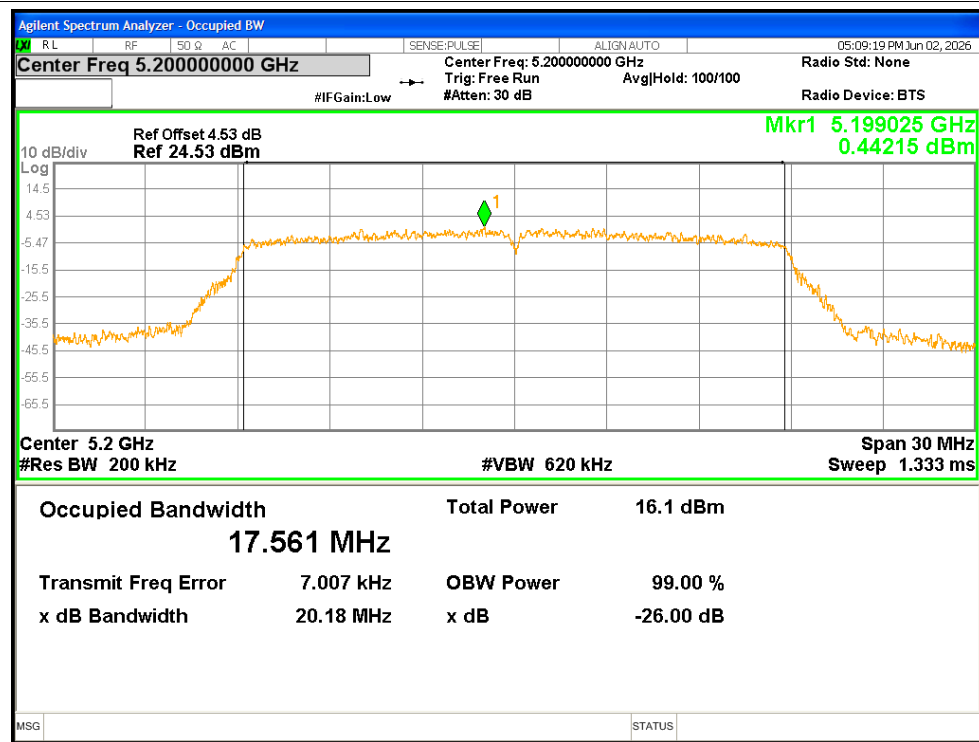
OBW NVNT n40 5230MHz



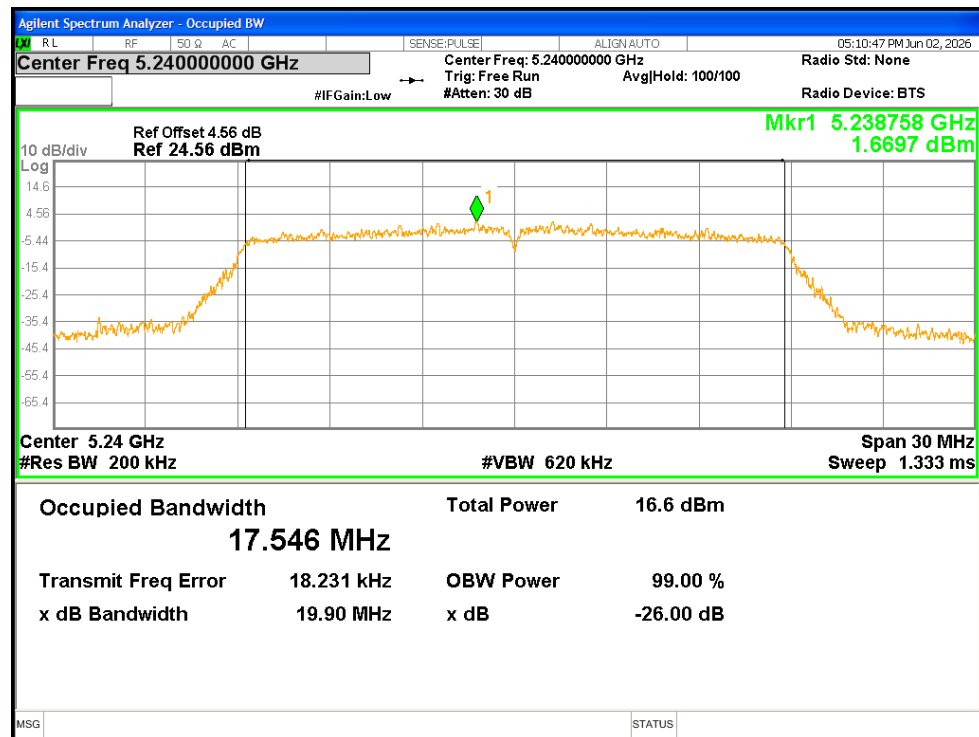
OBW NVNT ac20 5180MHz



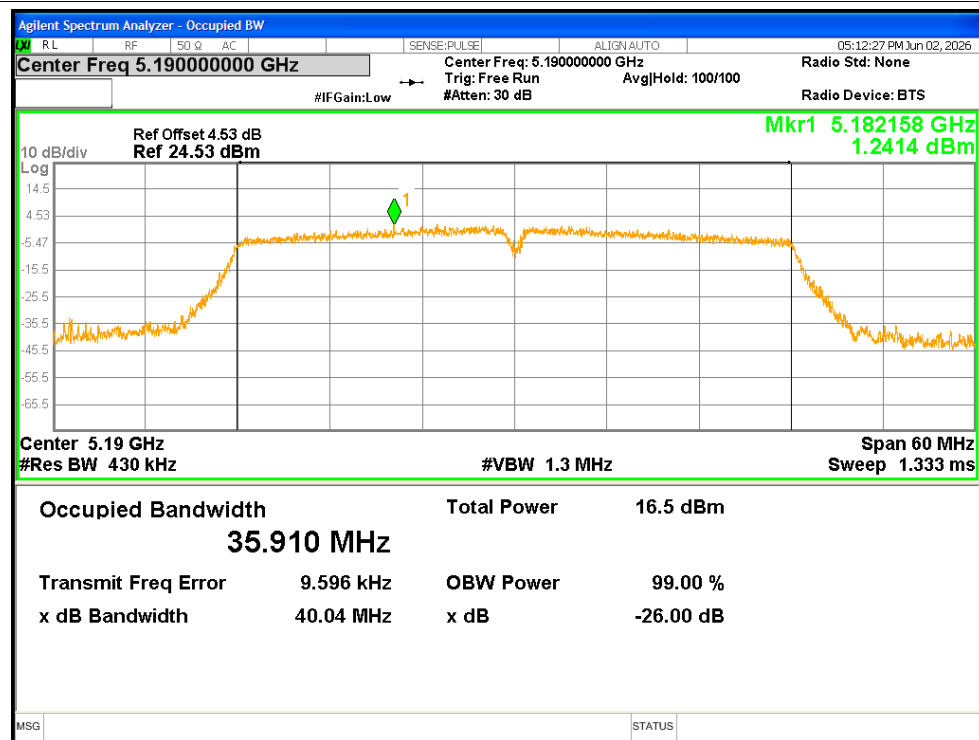
OBW NVNT ac20 5200MHz



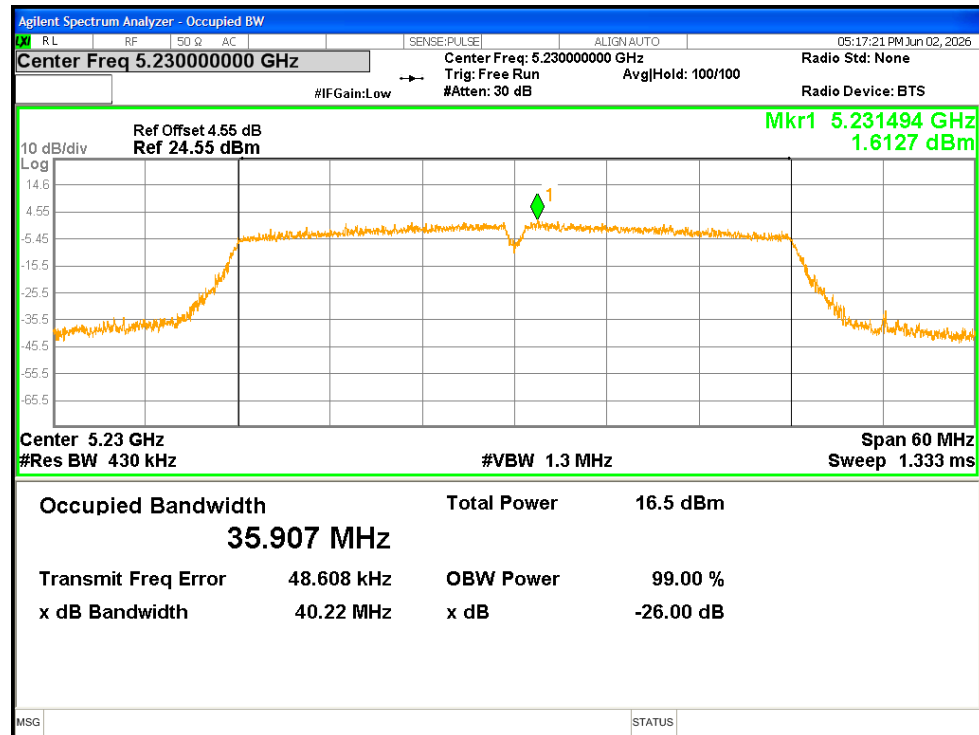
OBW NVNT ac20 5240MHz



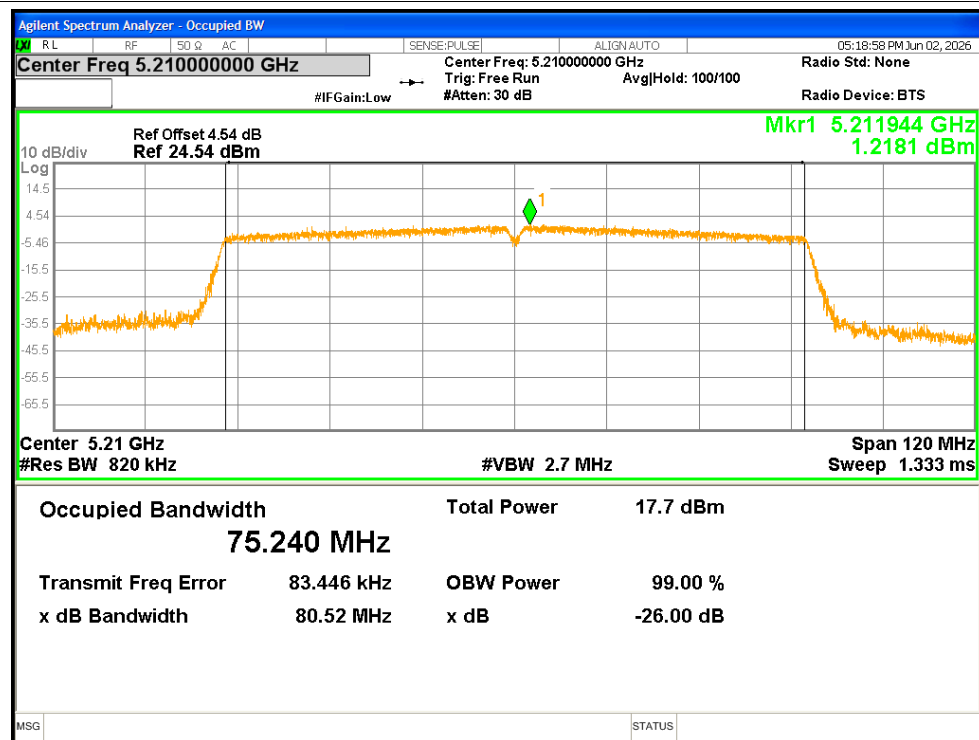
OBW NVNT ac40 5190MHz



OBW NVNT ac40 5230MHz



OBW NVNT ac80 5210MHz

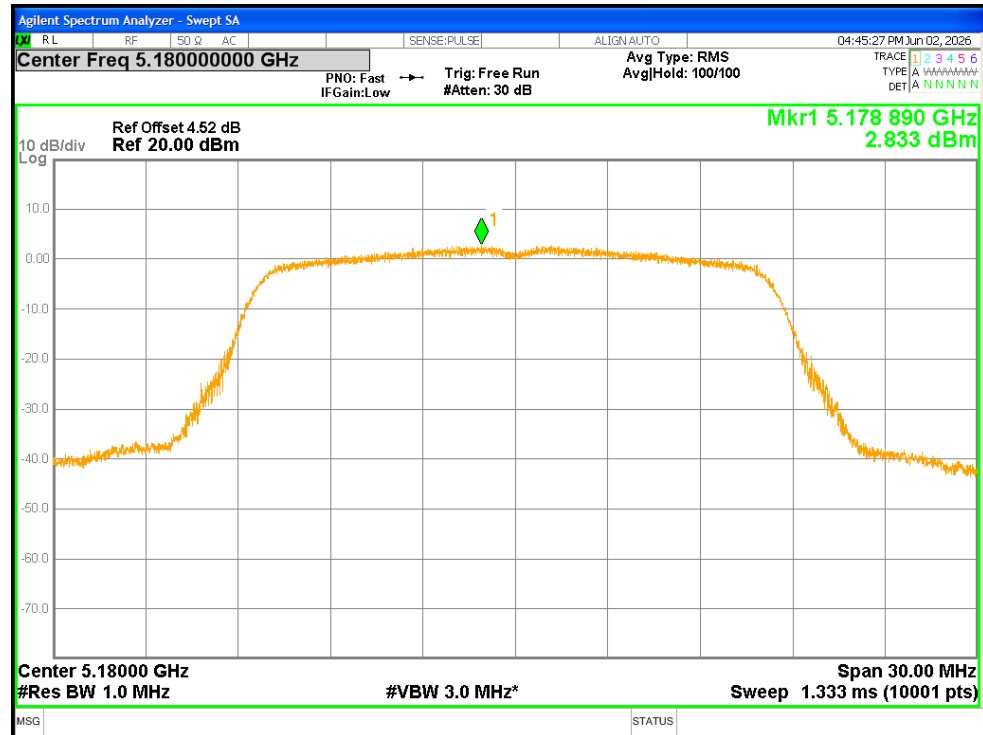


Maximum Power Spectral Density Level

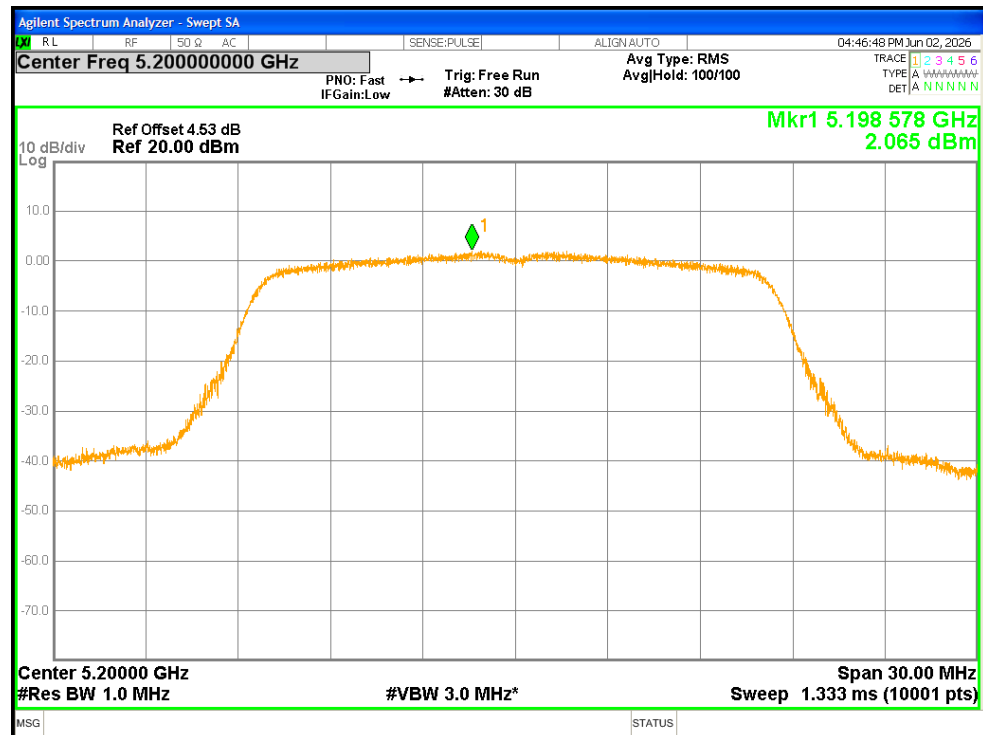
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	2.833	0.11	2.943	<=11	Pass
NVNT	a	5200	2.065	0.11	2.175	<=11	Pass
NVNT	a	5240	2.706	0.11	2.816	<=11	Pass
NVNT	n20	5180	1.528	0.12	1.648	<=11	Pass
NVNT	n20	5200	0.404	0.12	0.524	<=11	Pass
NVNT	n20	5240	1.185	0.12	1.305	<=11	Pass
NVNT	n40	5190	-1.985	0.23	-1.755	<=11	Pass
NVNT	n40	5230	-2.212	0.23	-1.982	<=11	Pass
NVNT	ac20	5180	1.376	0.12	1.496	<=11	Pass
NVNT	ac20	5200	0.602	0.11	0.712	<=11	Pass
NVNT	ac20	5240	1.088	0.12	1.208	<=11	Pass
NVNT	ac40	5190	-2.128	0.23	-1.898	<=11	Pass
NVNT	ac40	5230	-2.039	0.22	-1.819	<=11	Pass
NVNT	ac80	5210	-4.958	0.43	-4.528	<=11	Pass

Test Graphs

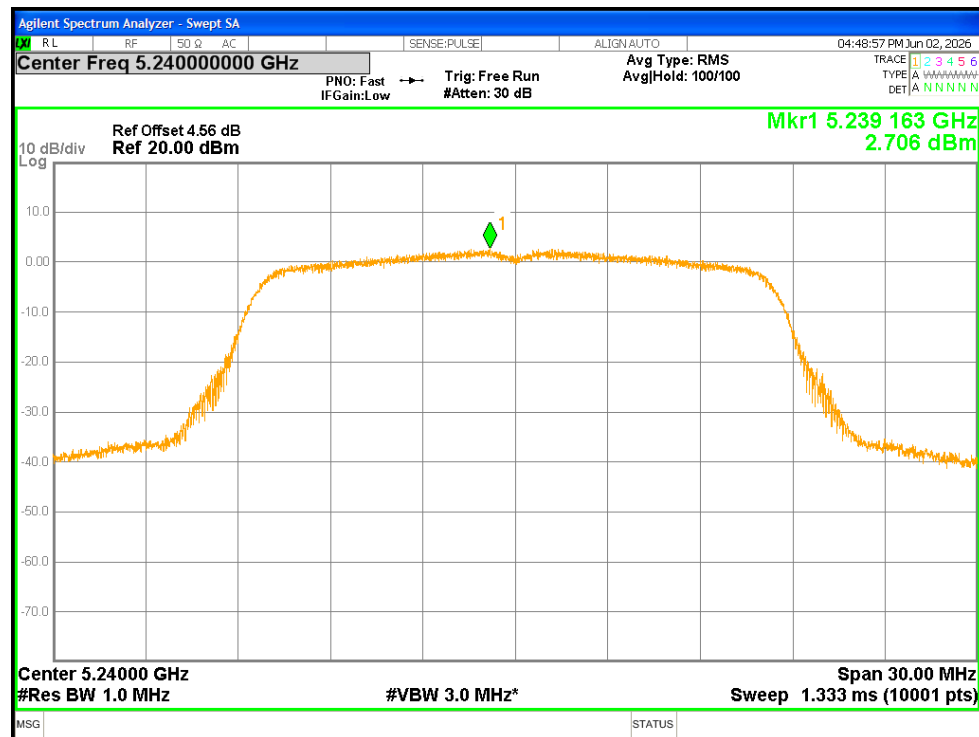
PSD NVNT a 5180MHz



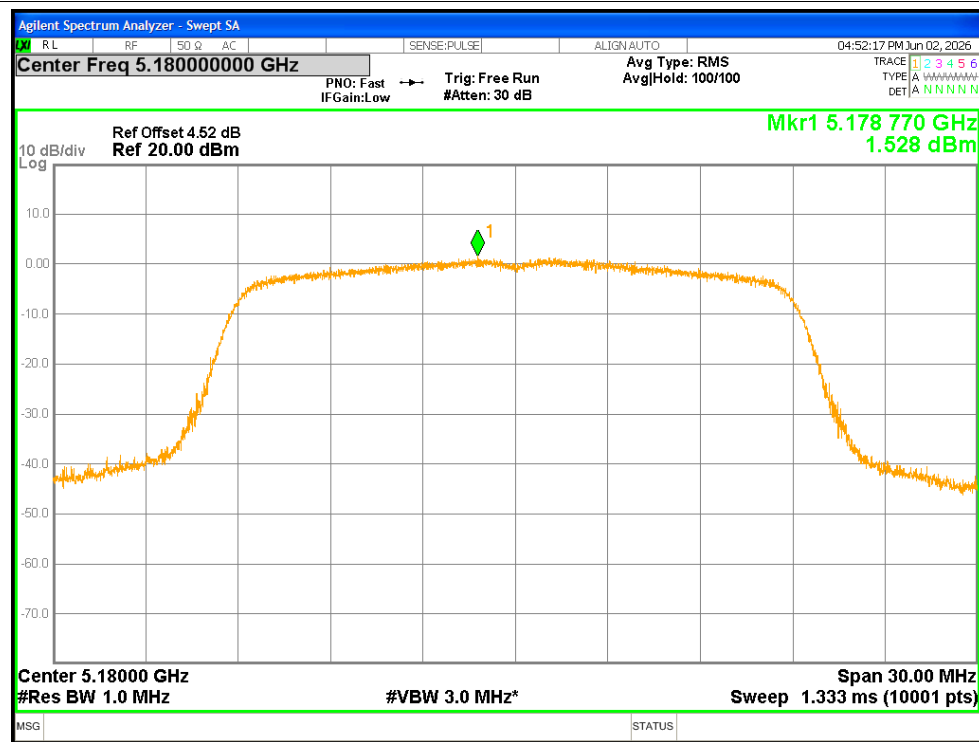
PSD NVNT a 5200MHz



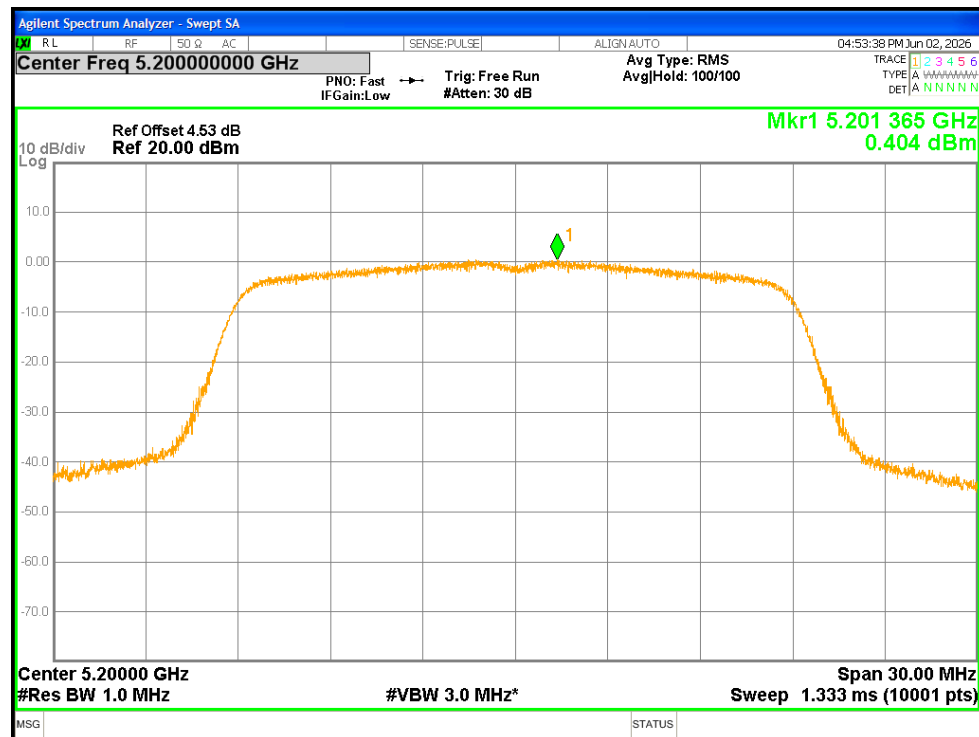
PSD NVNT a 5240MHz



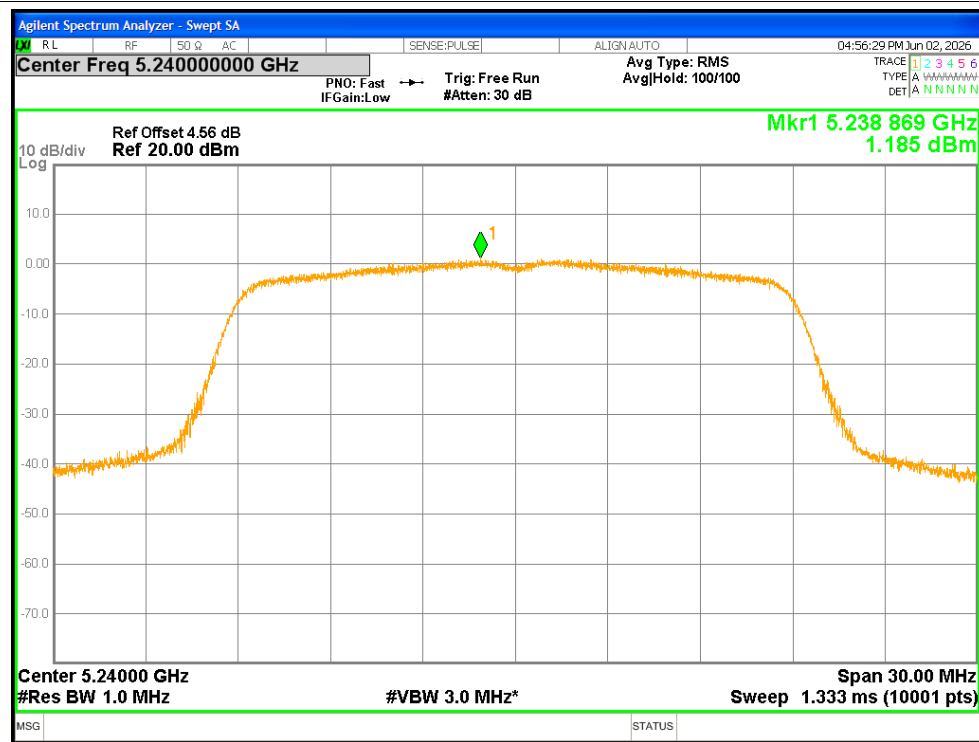
PSD NVNT n20 5180MHz



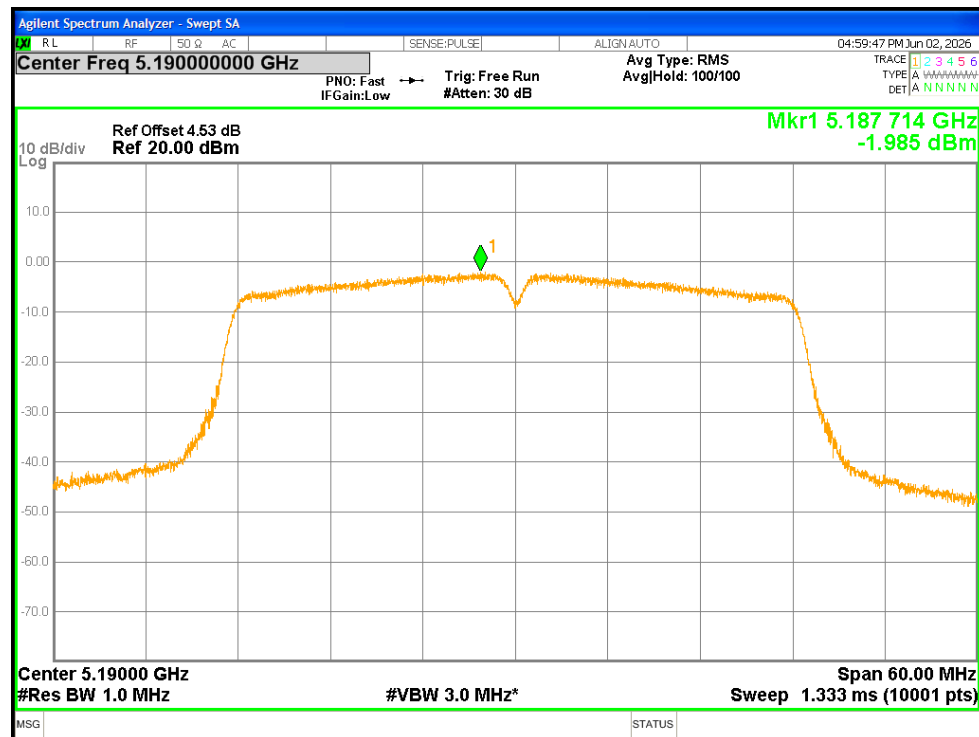
PSD NVNT n20 5200MHz



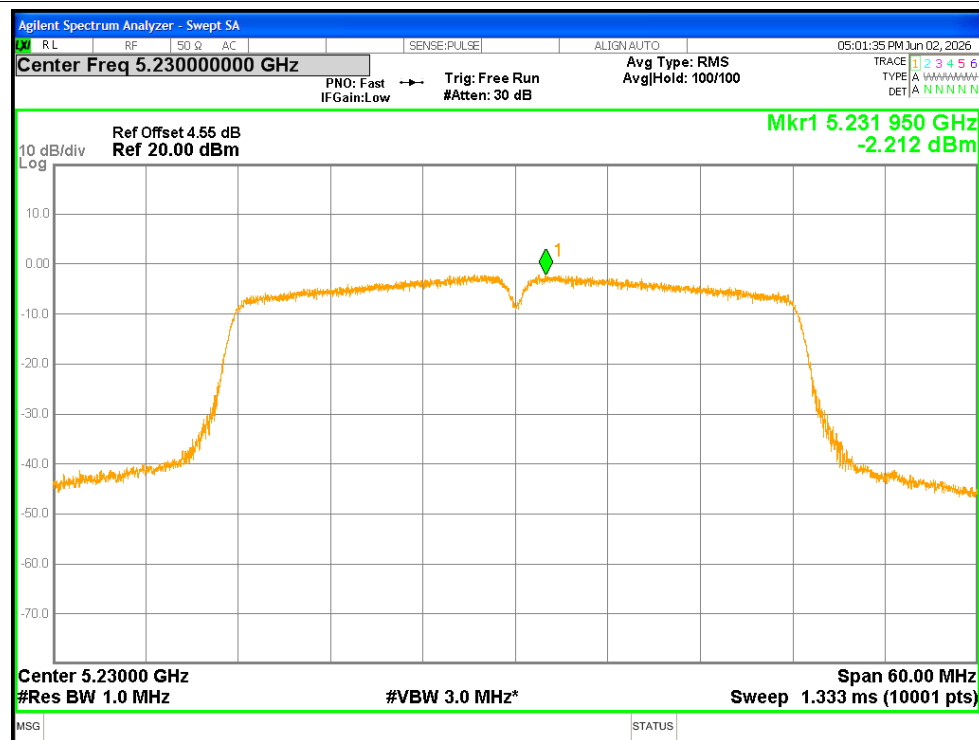
PSD NVNT n20 5240MHz



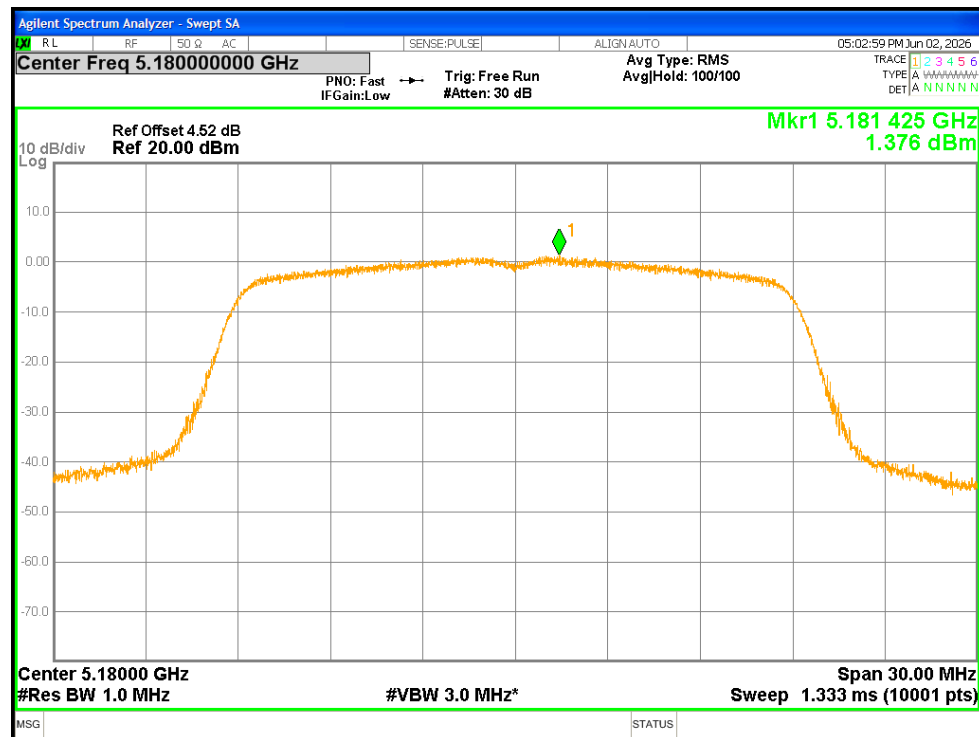
PSD NVNT n40 5190MHz



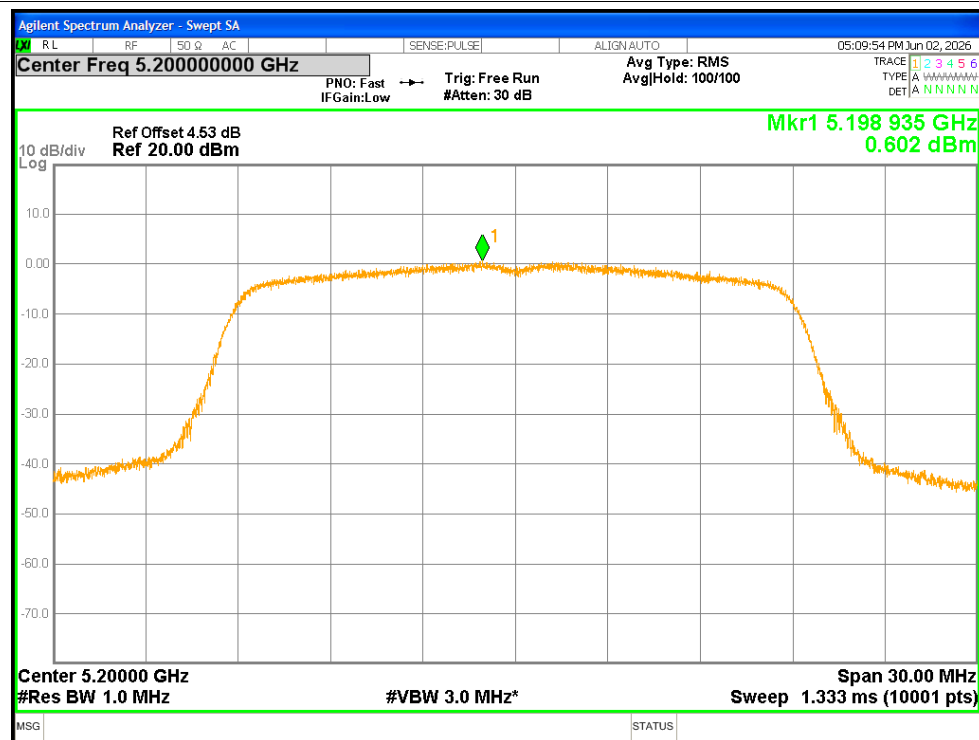
PSD NVNT n40 5230MHz



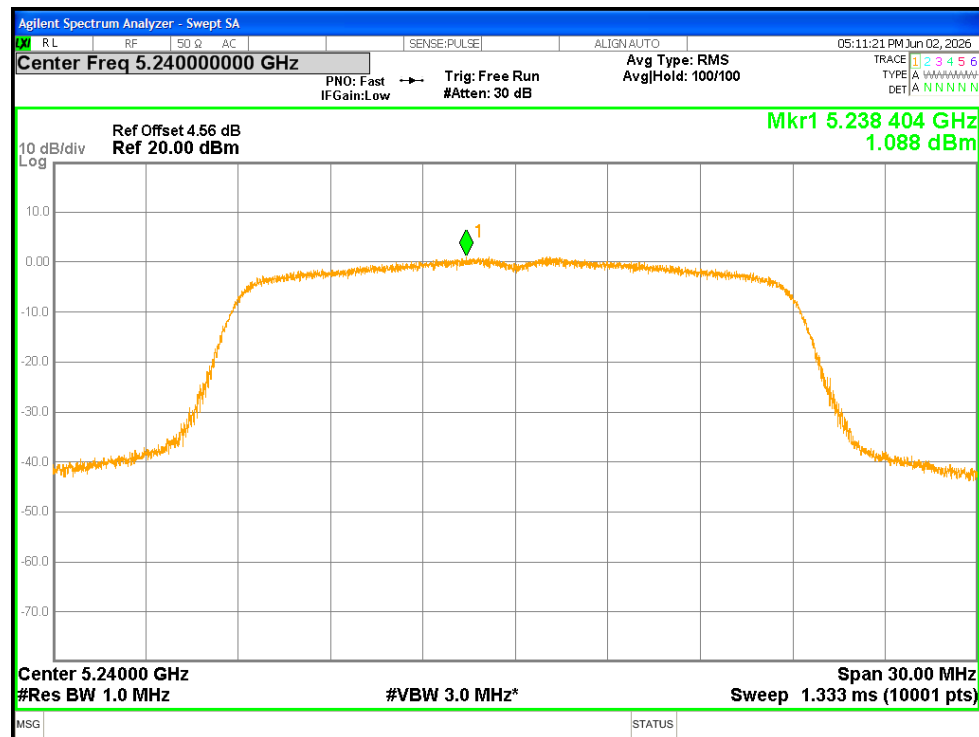
PSD NVNT ac20 5180MHz



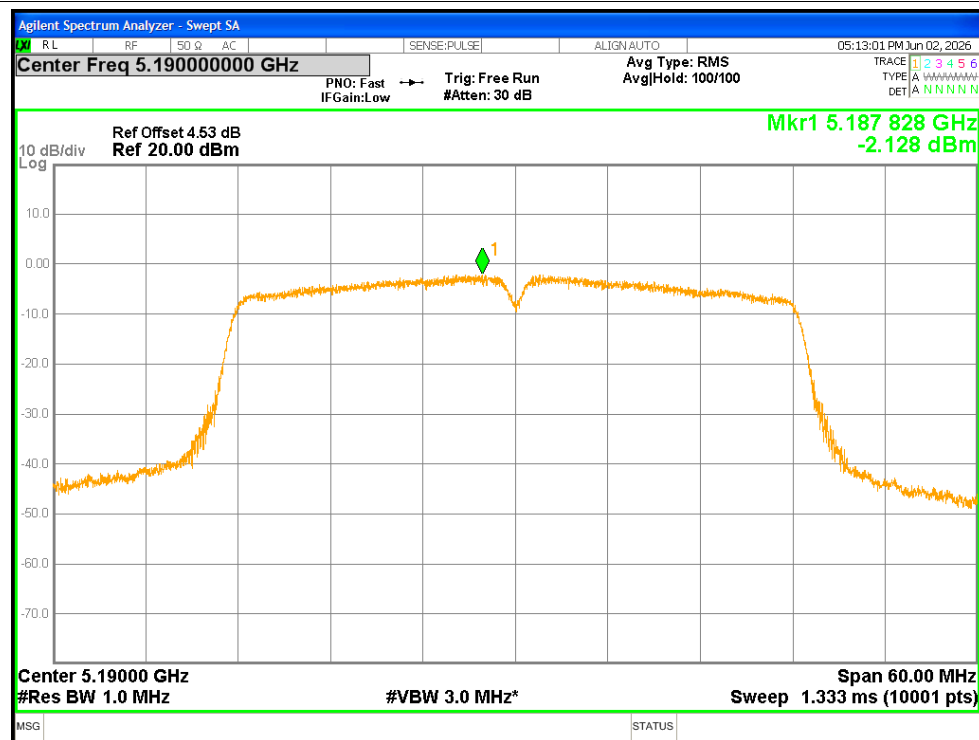
PSD NVNT ac20 5200MHz



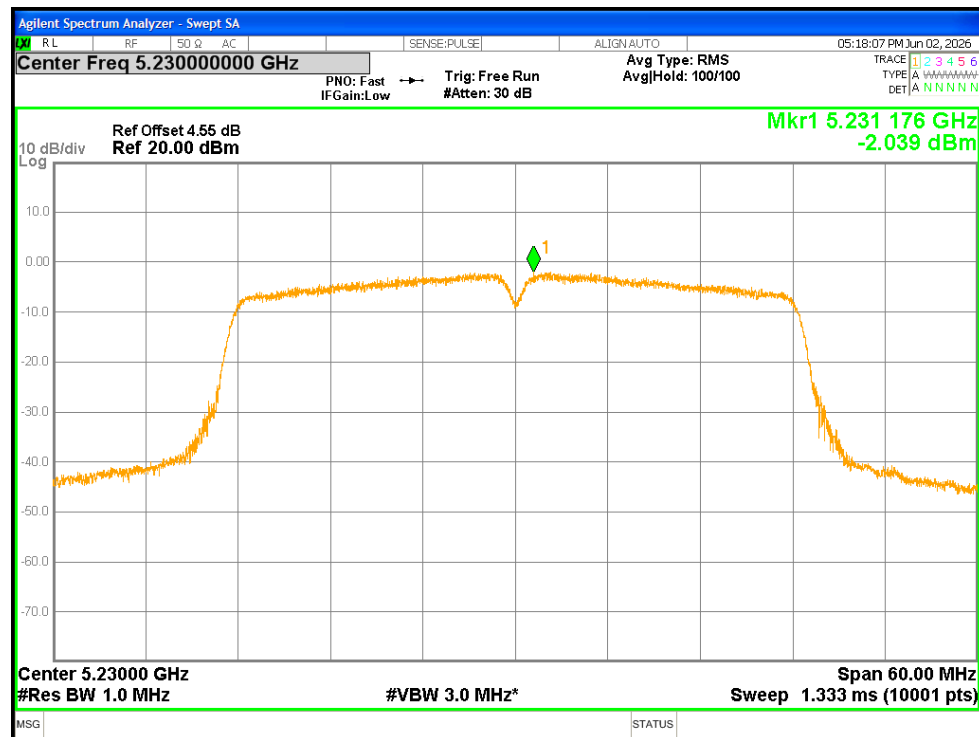
PSD NVNT ac20 5240MHz



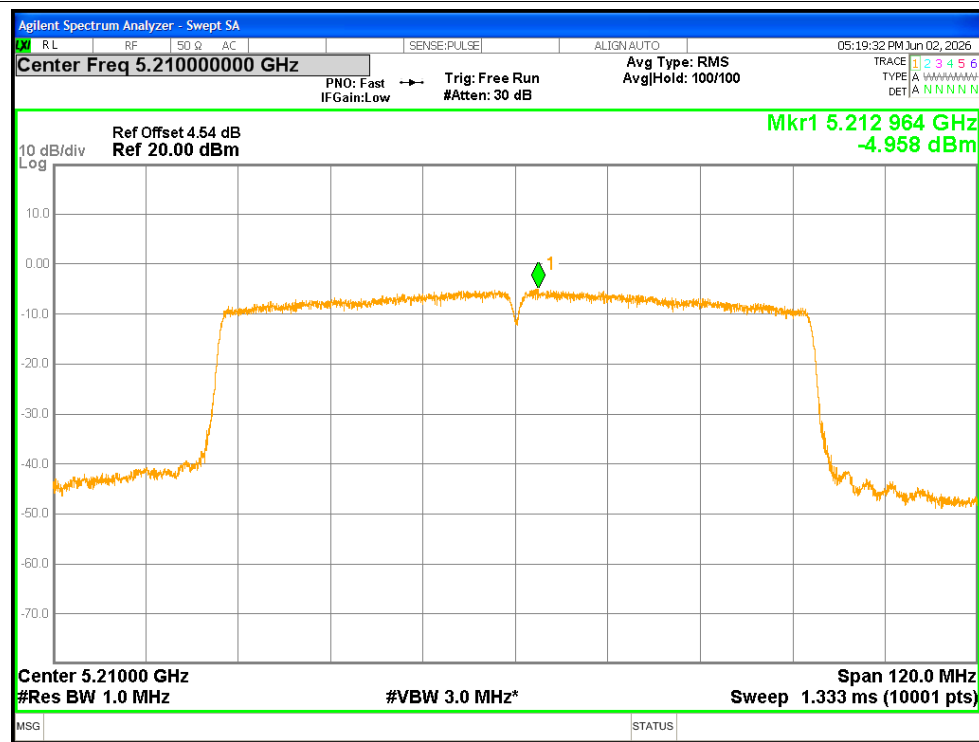
PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz



PSD NVNT ac80 5210MHz

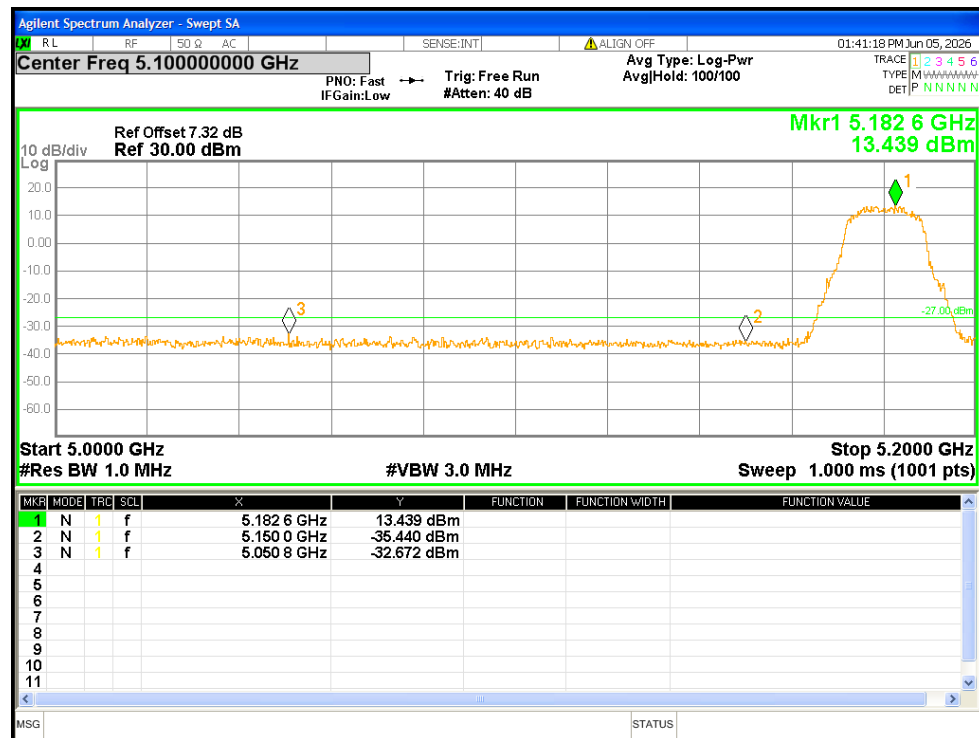


Band Edge

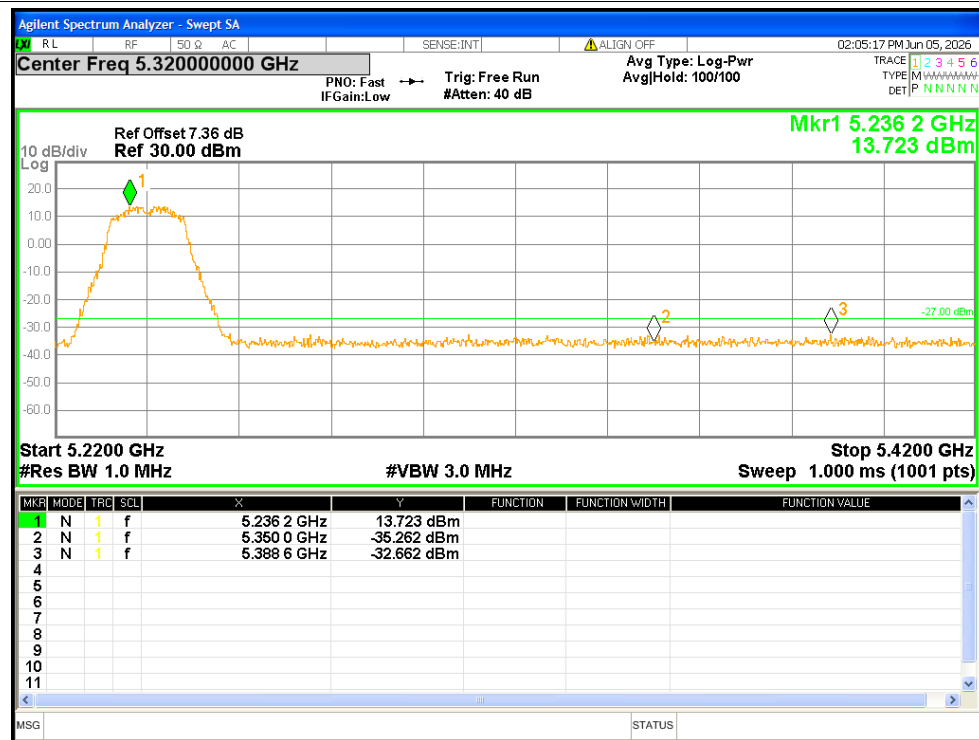
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
a	5180	-32.67	<=-27	Pass
a	5240	-32.66	<=-27	Pass
n20	5180	-32.88	<=-27	Pass
n20	5240	-32.44	<=-27	Pass
n40	5190	-42.38	<=-27	Pass
n40	5230	-41.97	<=-27	Pass
ac20	5180	-32.96	<=-27	Pass
ac20	5240	-33.32	<=-27	Pass
ac40	5190	-42.25	<=-27	Pass
ac40	5230	-42.01	<=-27	Pass
ac80	5210	-42.29	<=-27	Pass
ac80	5210	-36.63	<=-27	Pass

Test Graphs

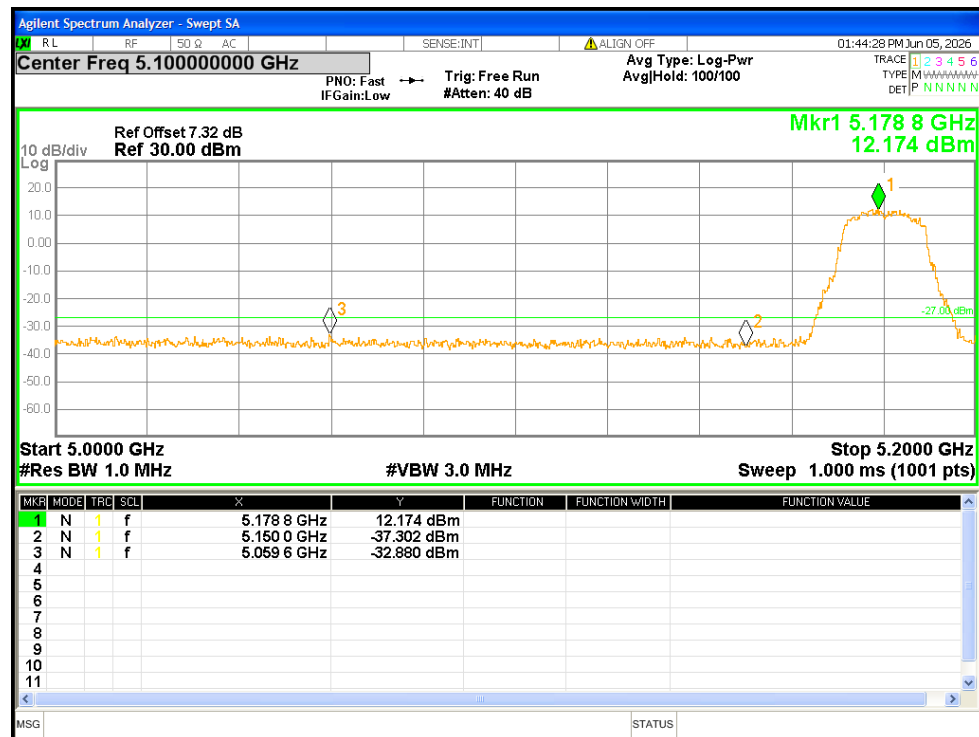
Band Edge NVNT a 5180MHz Low



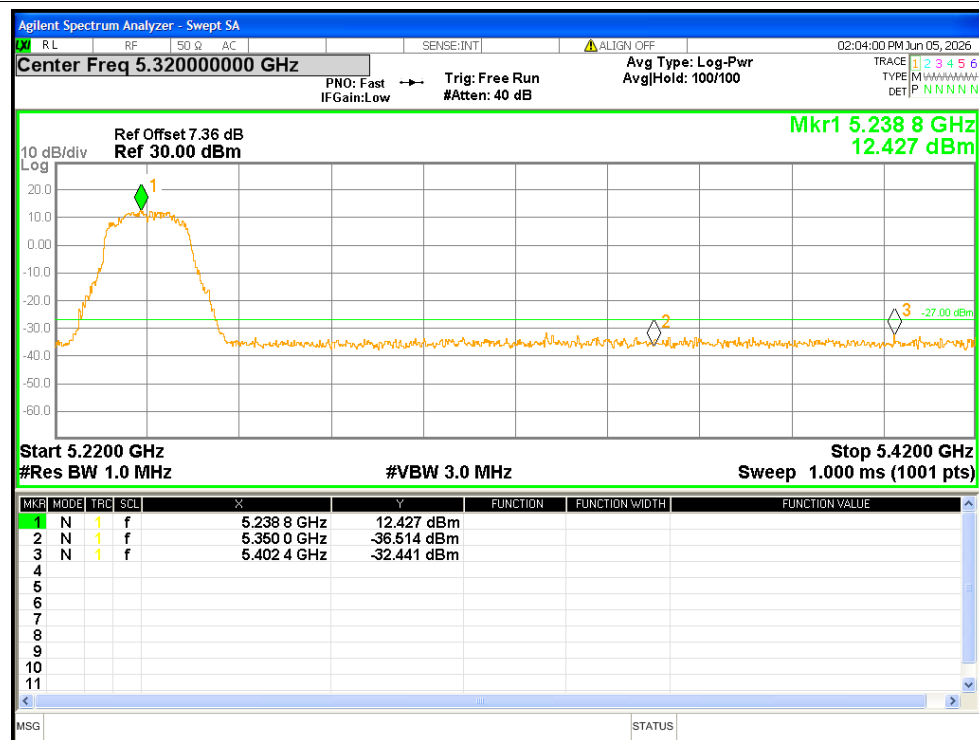
Band Edge NVNT a 5240MHz High



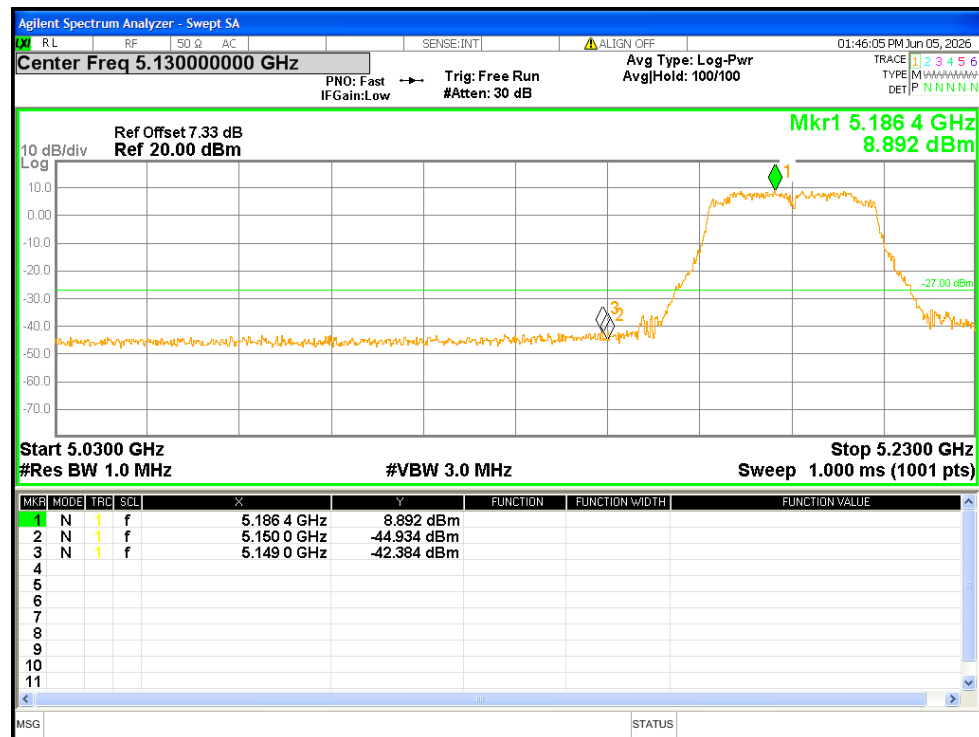
Band Edge NVNT n20 5180MHz Low



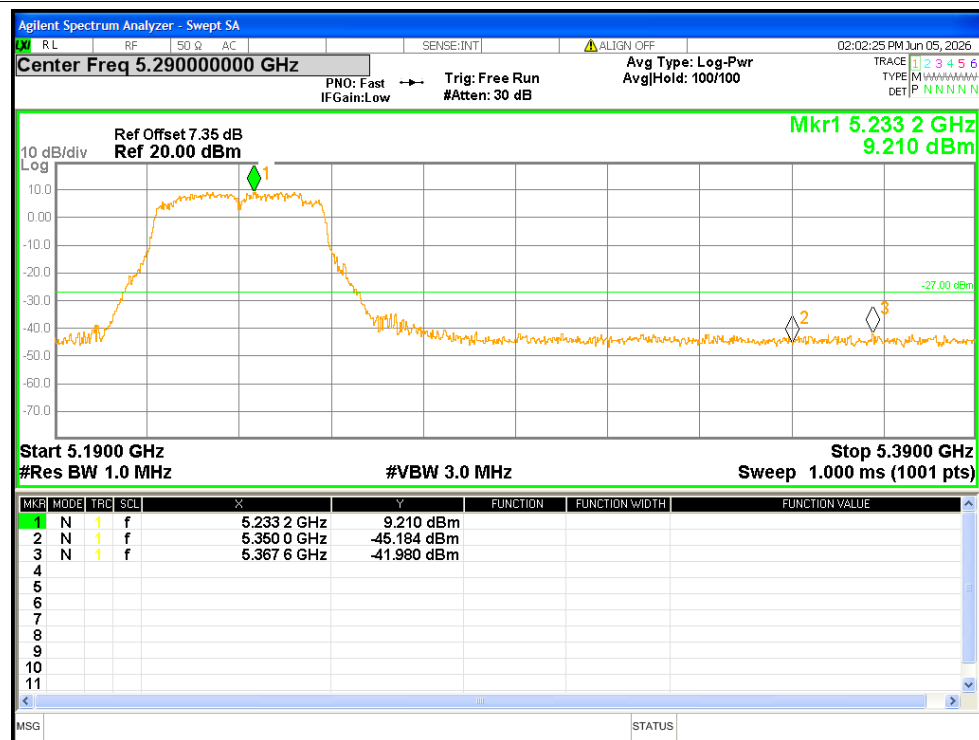
Band Edge NVNT n20 5240MHz High



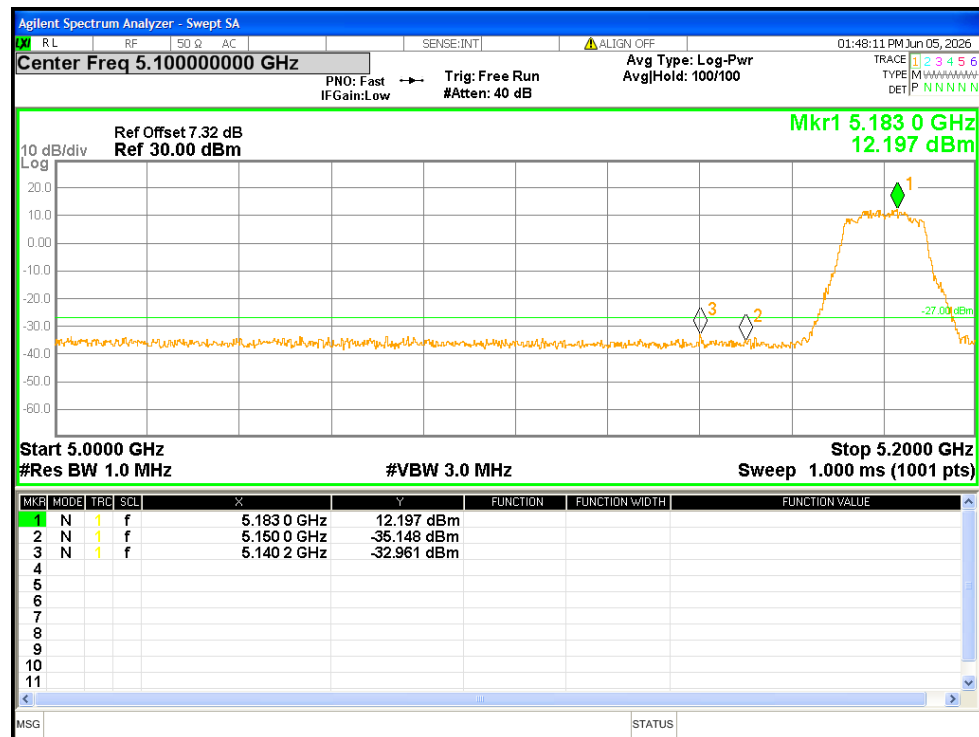
Band Edge NVNT n40 5190MHz Low



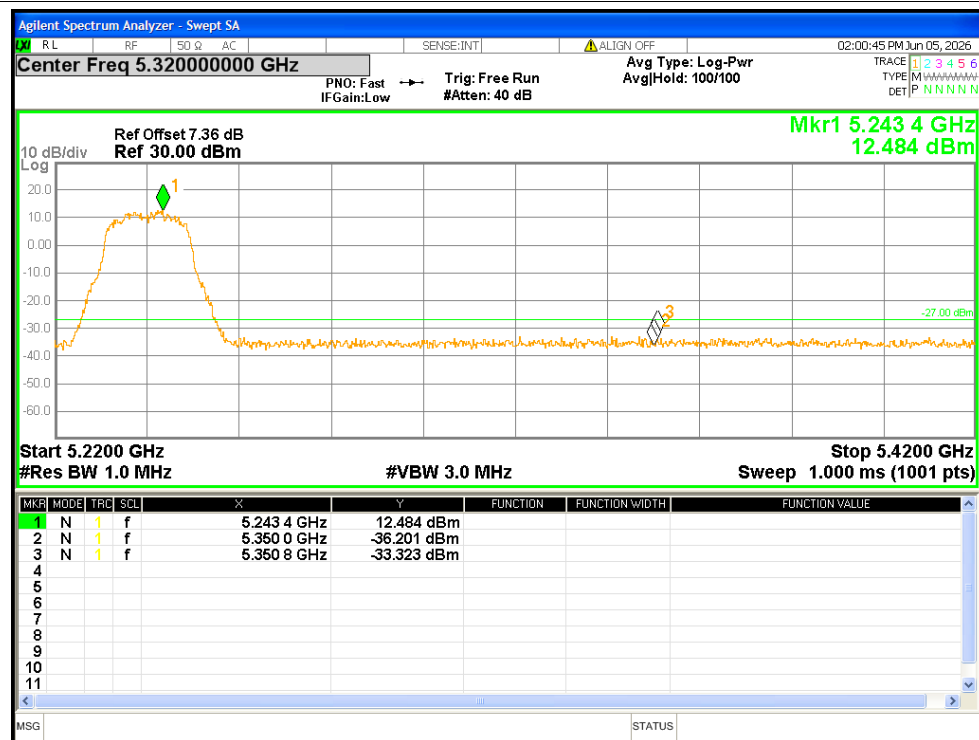
Band Edge NVNT n40 5230MHz High



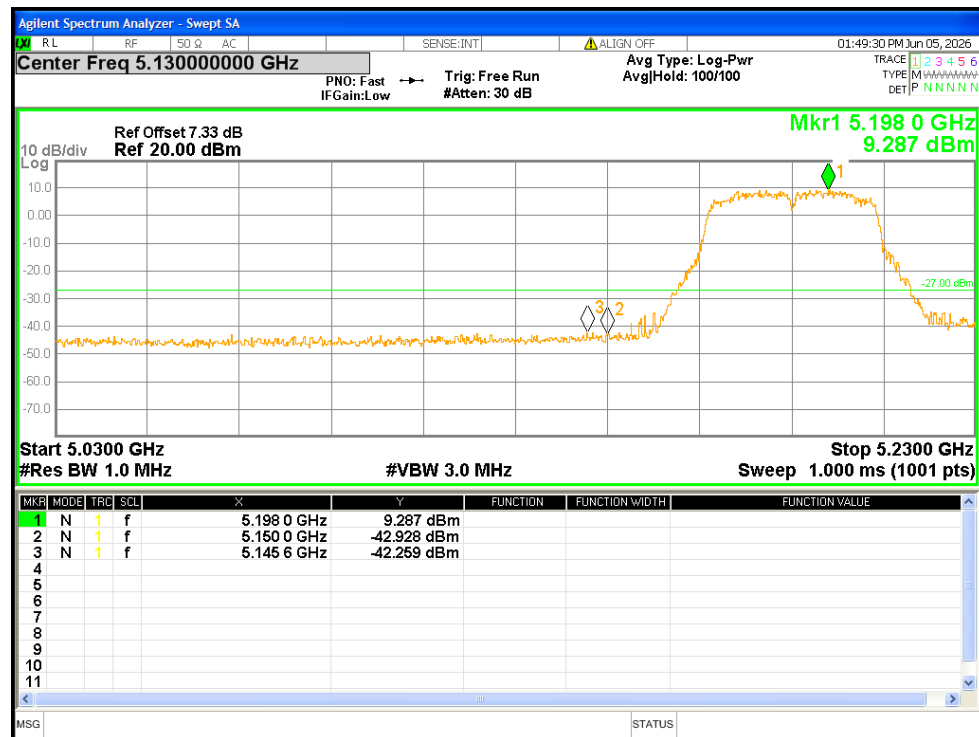
Band Edge NVNT ac20 5180MHz Low



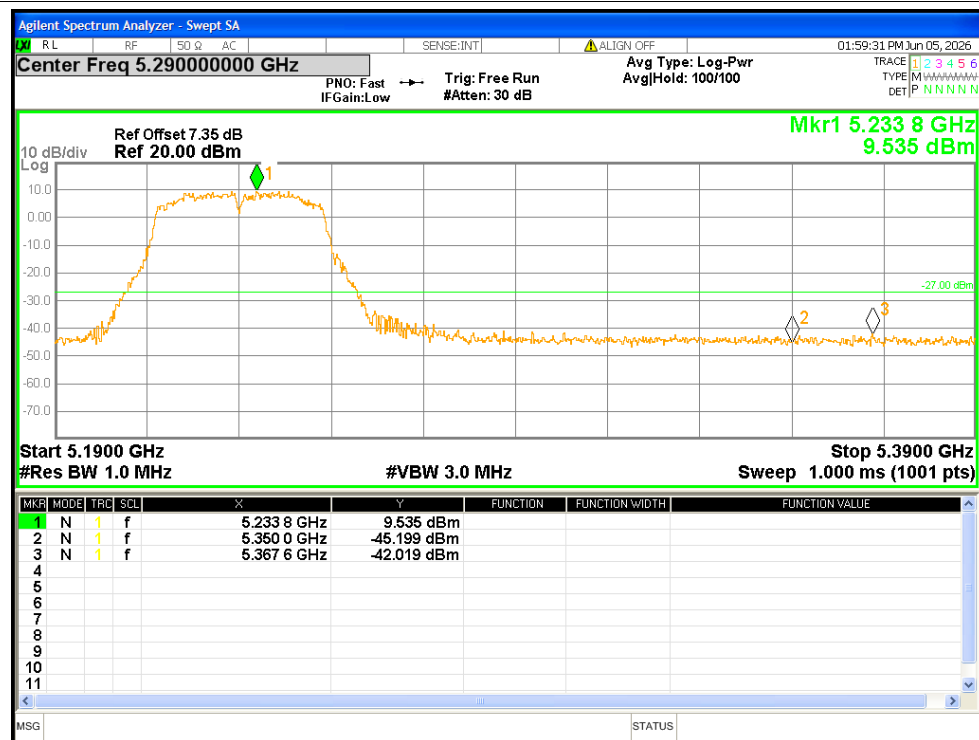
Band Edge NVNT ac20 5240MHz High



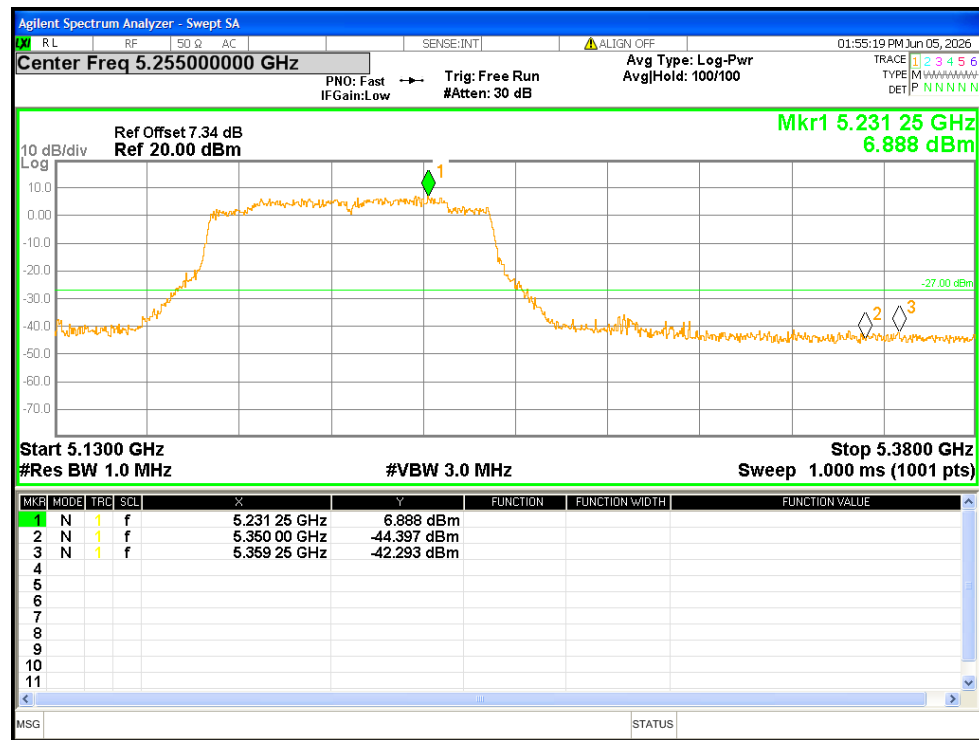
Band Edge NVNT ac40 5190MHz Low



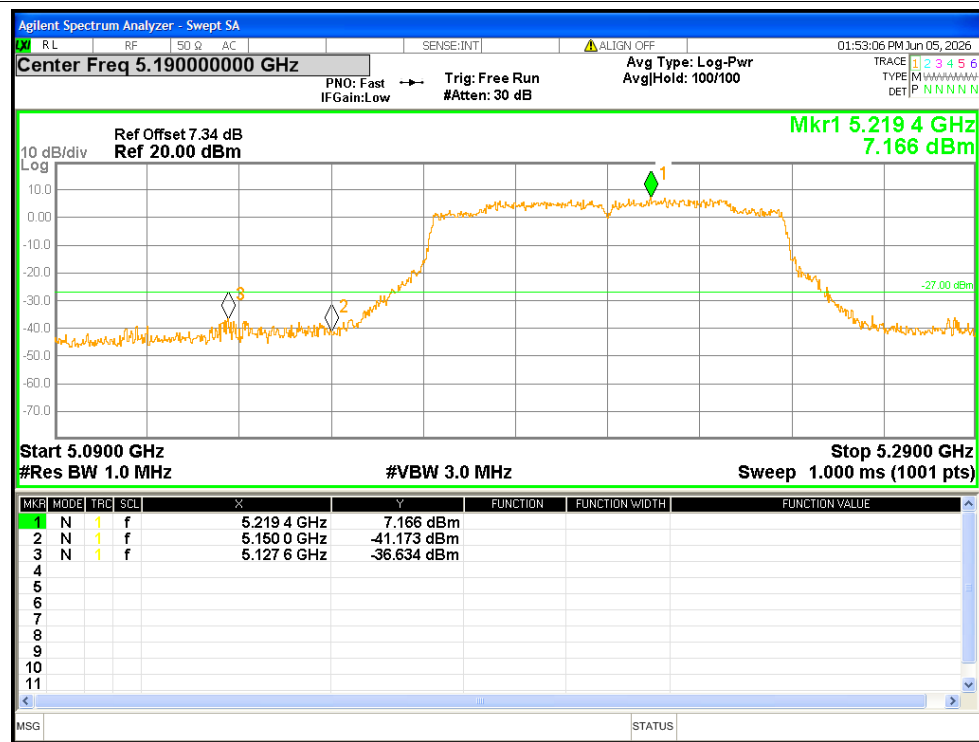
Band Edge NVNT ac40 5230MHz High



Band Edge NVNT ac80 5210MHz High



Band Edge NVNT ac80 5210MHz Low



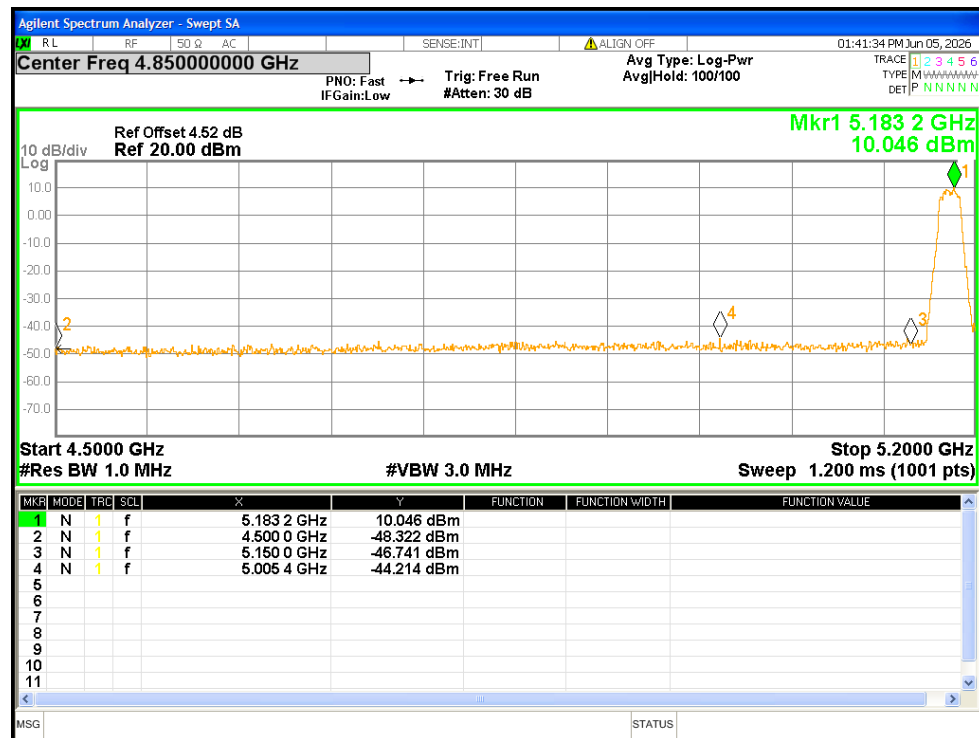
Restrict Band

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5180	4500	-48.32	2.8	0	49.71	Peak	<=68.2	Pass
a	5180	4500	-57.04	2.8	0.11	41.1	Average	<=54	Pass
a	5180	5005.4	-44.21	2.8	0	53.82	Peak	<=68.2	Pass
a	5180	5139.1	-54.59	2.8	0.11	43.55	Average	<=54	Pass
a	5180	5150	-46.74	2.8	0	51.29	Peak	<=68.2	Pass
a	5180	5150	-54.88	2.8	0.11	43.26	Average	<=54	Pass
a	5240	5350	-45.94	2.8	0	52.09	Peak	<=68.2	Pass
a	5240	5350	-55.54	2.8	0.11	42.6	Average	<=54	Pass
a	5240	5404.56	-44.32	2.8	0	53.71	Peak	<=68.2	Pass
a	5240	5389.2	-54.81	2.8	0.11	43.33	Average	<=54	Pass
a	5240	5460	-48.57	2.8	0	49.46	Peak	<=68.2	Pass
a	5240	5460	-56.25	2.8	0.11	41.89	Average	<=54	Pass
n20	5180	4500	-49.52	2.8	0	48.51	Peak	<=68.2	Pass
n20	5180	4500	-57.01	2.8	0.12	41.14	Average	<=54	Pass
n20	5180	5081	-43.46	2.8	0	54.57	Peak	<=68.2	Pass
n20	5180	5141.2	-54.58	2.8	0.12	43.57	Average	<=54	Pass
n20	5180	5150	-46.76	2.8	0	51.27	Peak	<=68.2	Pass
n20	5180	5150	-55.04	2.8	0.12	43.11	Average	<=54	Pass
n20	5240	5350	-47.14	2.8	0	50.89	Peak	<=68.2	Pass
n20	5240	5350	-55.66	2.8	0.12	42.49	Average	<=54	Pass
n20	5240	5406.48	-44.55	2.8	0	53.48	Peak	<=68.2	Pass
n20	5240	5352	-54.86	2.8	0.12	43.29	Average	<=54	Pass
n20	5240	5460	-46.77	2.8	0	51.26	Peak	<=68.2	Pass
n20	5240	5460	-56.17	2.8	0.12	41.98	Average	<=54	Pass
n40	5190	4500	-48.49	2.8	0	49.54	Peak	<=68.2	Pass
n40	5190	4500	-57.4	2.8	0.23	40.86	Average	<=54	Pass
n40	5190	5067.94	-44.96	2.8	0	53.07	Peak	<=68.2	Pass
n40	5190	5141.67	-54.49	2.8	0.23	43.77	Average	<=54	Pass
n40	5190	5150	-44.69	2.8	0	53.34	Peak	<=68.2	Pass
n40	5190	5150	-54.61	2.8	0.23	43.65	Average	<=54	Pass
n40	5230	5350	-48.74	2.8	0	49.29	Peak	<=68.2	Pass
n40	5230	5350	-55.38	2.8	0.23	42.88	Average	<=54	Pass
n40	5230	5413.02	-45.2	2.8	0	52.83	Peak	<=68.2	Pass
n40	5230	5357.94	-54.76	2.8	0.23	43.5	Average	<=54	Pass
n40	5230	5460	-48.12	2.8	0	49.91	Peak	<=68.2	Pass
n40	5230	5460	-55.84	2.8	0.23	42.42	Average	<=54	Pass
ac20	5180	4500	-49.1	2.8	0	48.93	Peak	<=68.2	Pass
ac20	5180	4500	-57.3	2.8	0.12	40.85	Average	<=54	Pass
ac20	5180	5146.1	-44.32	2.8	0	53.71	Peak	<=68.2	Pass

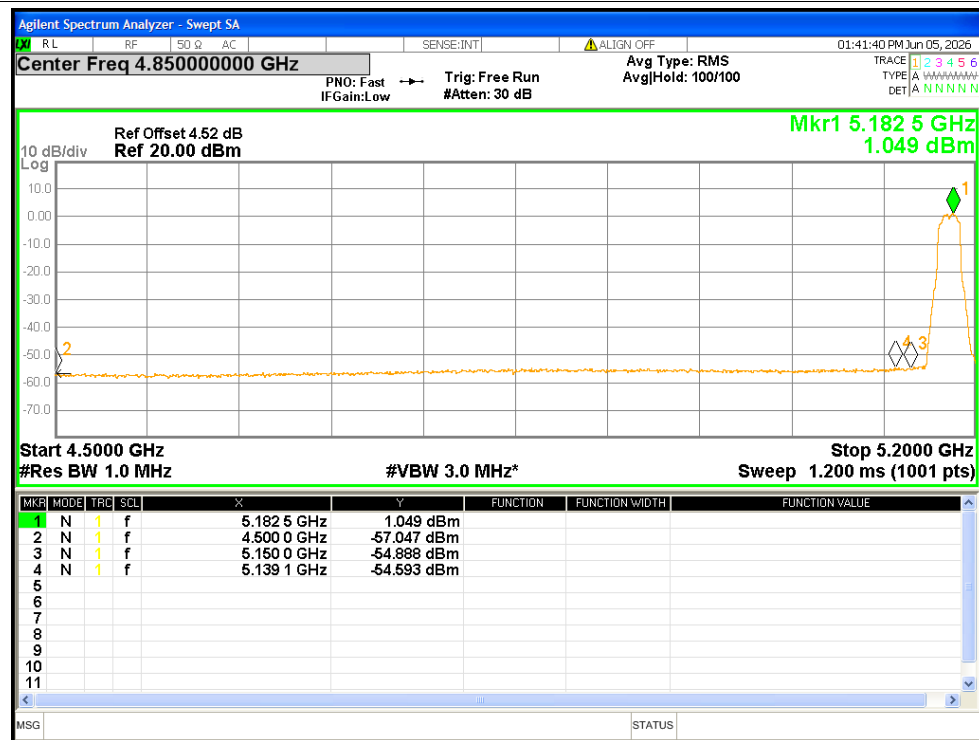
ac20	5180	4938.9	-54.74	2.8	0.12	43.41	Average	<=54	Pass
ac20	5180	5150	-47.49	2.8	0	50.54	Peak	<=68.2	Pass
ac20	5180	5150	-55.37	2.8	0.12	42.78	Average	<=54	Pass
ac20	5240	5350	-47.78	2.8	0	50.25	Peak	<=68.2	Pass
ac20	5240	5350	-55.56	2.8	0.12	42.59	Average	<=54	Pass
ac20	5240	5412.72	-44.76	2.8	0	53.27	Peak	<=68.2	Pass
ac20	5240	5364.96	-54.56	2.8	0.12	43.59	Average	<=54	Pass
ac20	5240	5460	-49.01	2.8	0	49.02	Peak	<=68.2	Pass
ac20	5240	5460	-56.08	2.8	0.12	42.07	Average	<=54	Pass
ac40	5190	4500	-48.59	2.8	0	49.44	Peak	<=68.2	Pass
ac40	5190	4500	-57.31	2.8	0.23	40.95	Average	<=54	Pass
ac40	5190	5149.7	-44.11	2.8	0	53.92	Peak	<=68.2	Pass
ac40	5190	5143.86	-54.05	2.8	0.23	44.21	Average	<=54	Pass
ac40	5190	5150	-43.62	2.8	0	54.41	Peak	<=68.2	Pass
ac40	5190	5150	-54.71	2.8	0.23	43.55	Average	<=54	Pass
ac40	5230	5350	-47.15	2.8	0	50.88	Peak	<=68.2	Pass
ac40	5230	5350	-55.16	2.8	0.22	43.09	Average	<=54	Pass
ac40	5230	5381.97	-44.34	2.8	0	53.69	Peak	<=68.2	Pass
ac40	5230	5352.81	-54.79	2.8	0.22	43.46	Average	<=54	Pass
ac40	5230	5460	-49.57	2.8	0	48.46	Peak	<=68.2	Pass
ac40	5230	5460	-56.16	2.8	0.22	42.09	Average	<=54	Pass
ac80	5210	5350	-47.37	2.8	0	50.66	Peak	<=68.2	Pass
ac80	5210	5350	-55.01	2.8	0.43	43.45	Average	<=54	Pass
ac80	5210	5365.29	-44.15	2.8	0	53.88	Peak	<=68.2	Pass
ac80	5210	5355.72	-54.66	2.8	0.43	43.8	Average	<=54	Pass
ac80	5210	5460	-47.65	2.8	0	50.38	Peak	<=68.2	Pass
ac80	5210	5460	-56.09	2.8	0.43	42.37	Average	<=54	Pass
ac80	5210	4500	-49.92	2.8	0	48.11	Peak	<=68.2	Pass
ac80	5210	4500	-57.13	2.8	0.43	41.33	Average	<=54	Pass
ac80	5210	5128.05	-40.57	2.8	0	57.46	Peak	<=68.2	Pass
ac80	5210	5143.06	-52.81	2.8	0.43	45.65	Average	<=54	Pass
ac80	5210	5150	-43.88	2.8	0	54.15	Peak	<=68.2	Pass
ac80	5210	5150	-53.23	2.8	0.43	45.23	Average	<=54	Pass

Test Graphs

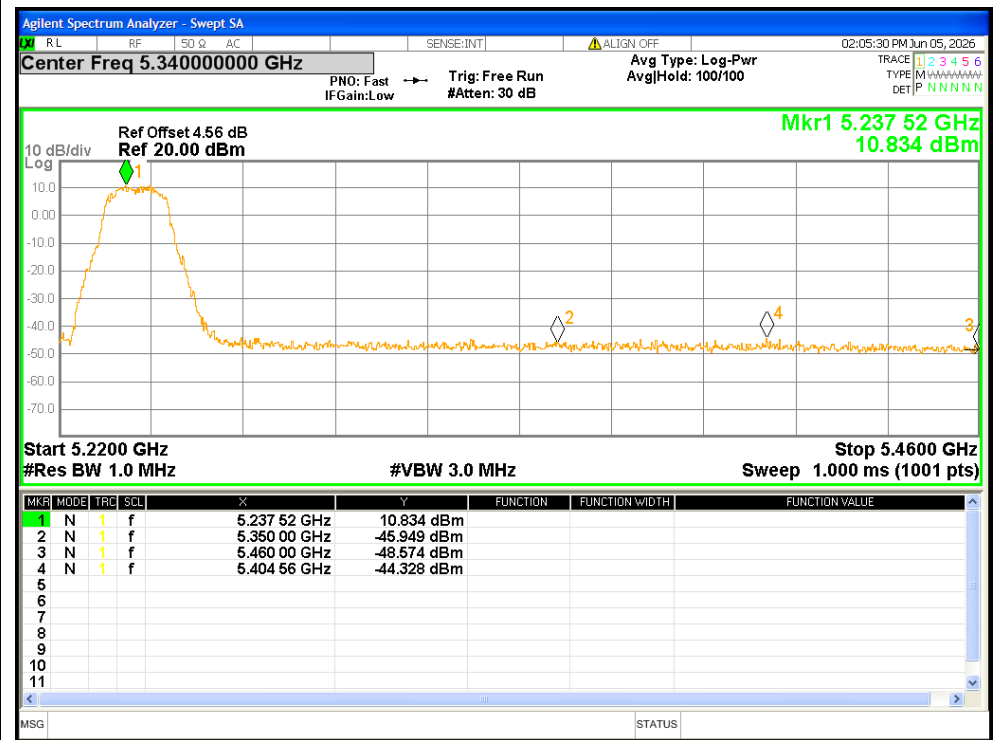
Restrict Band NVNT a 5180MHz Peak



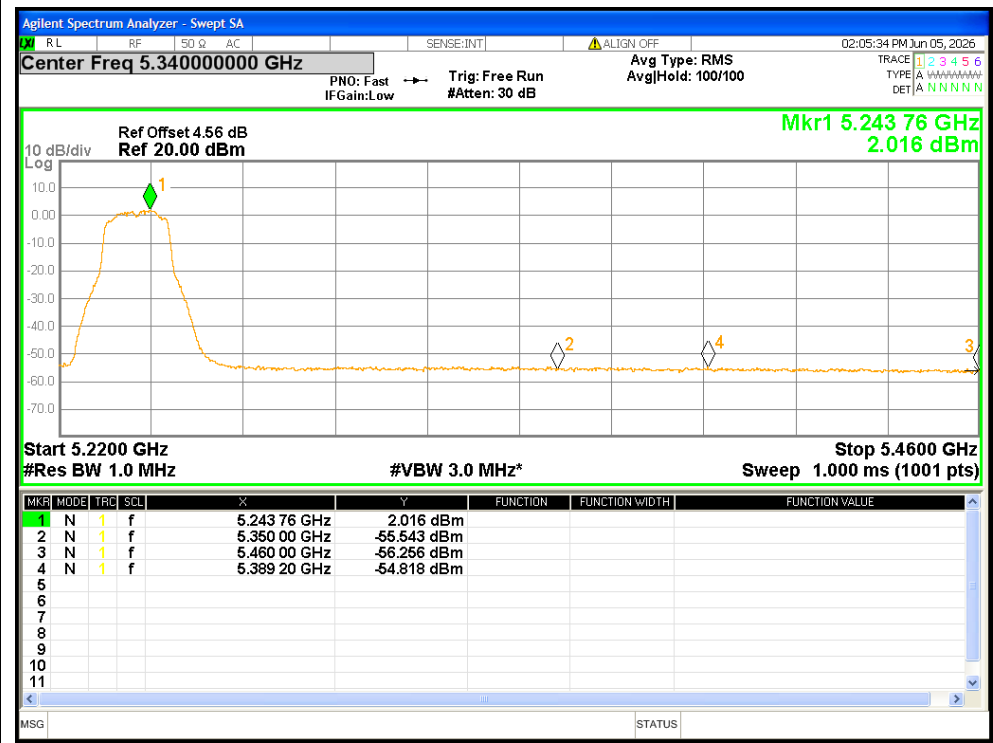
Restrict Band NVNT a 5180MHz Average



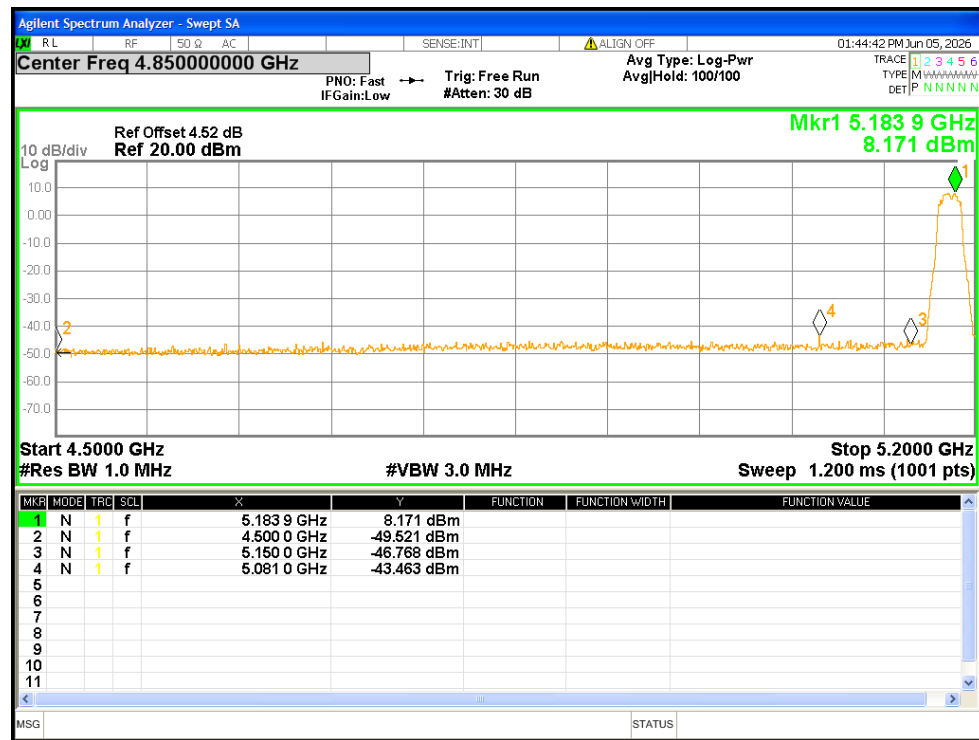
Restrict Band NVNT a 5240MHz Peak



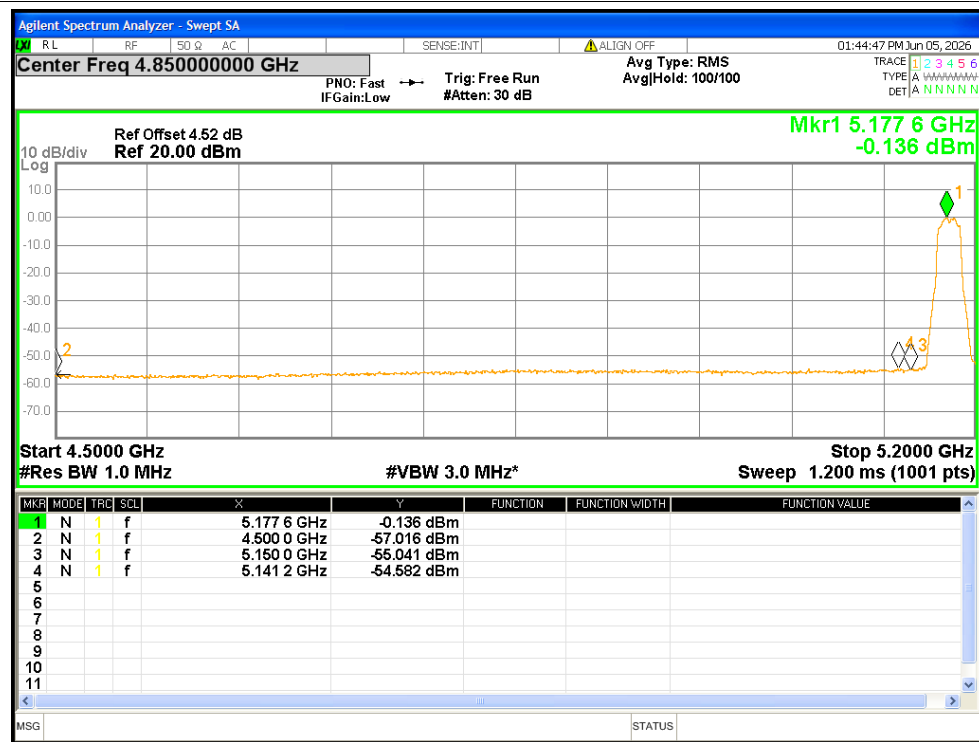
Restrict Band NVNT a 5240MHz Average



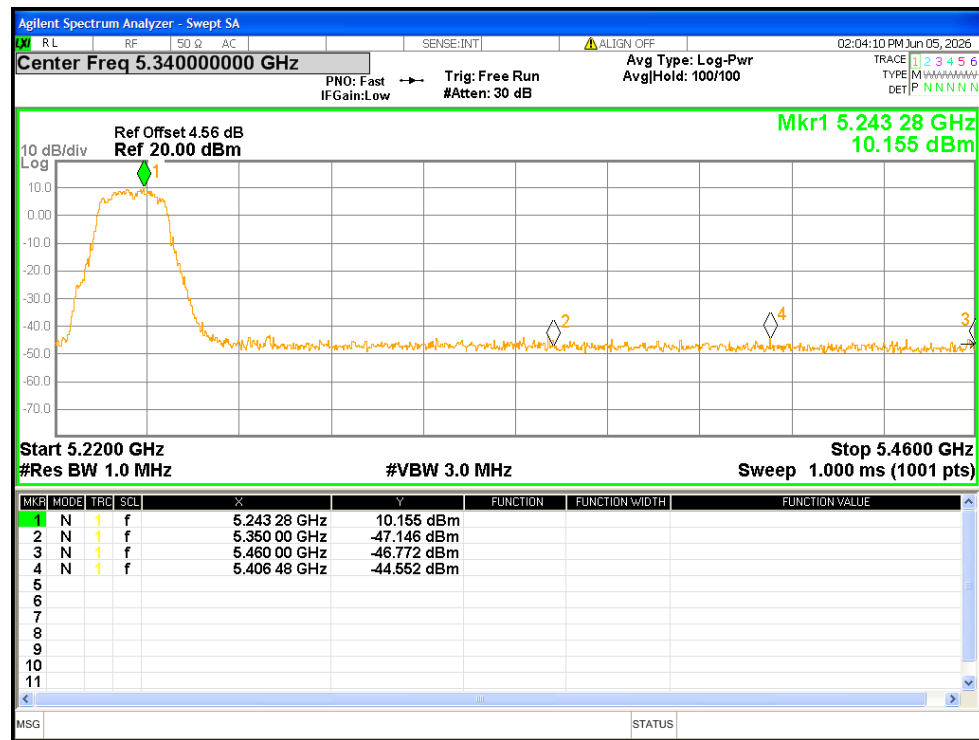
Restrict Band NVNT n20 5180MHz Peak



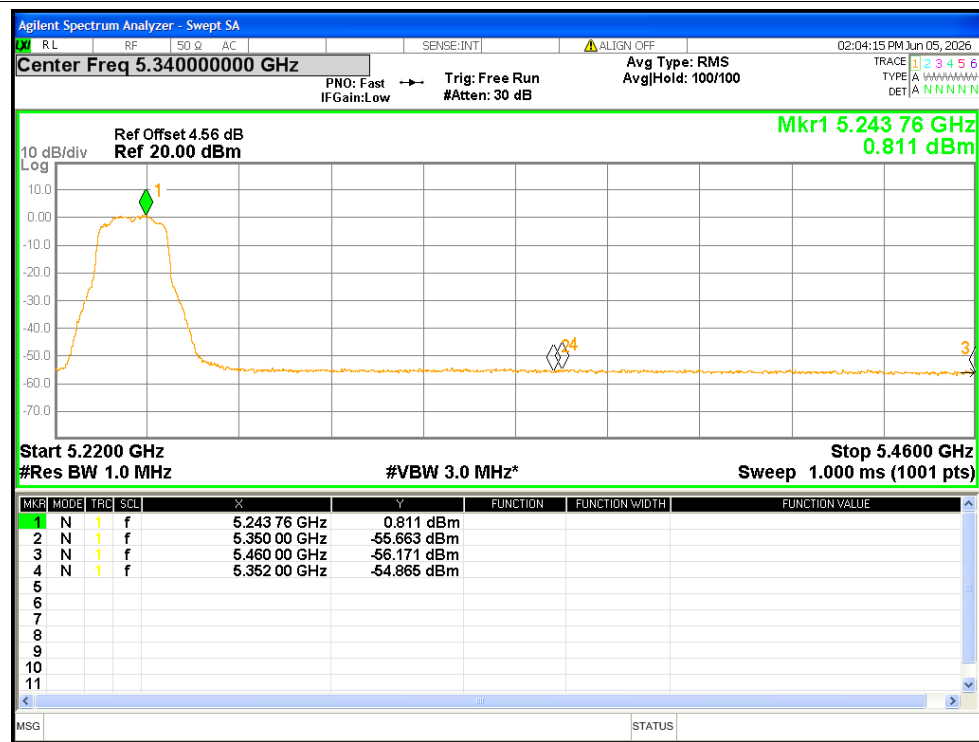
Restrict Band NVNT n20 5180MHz Average



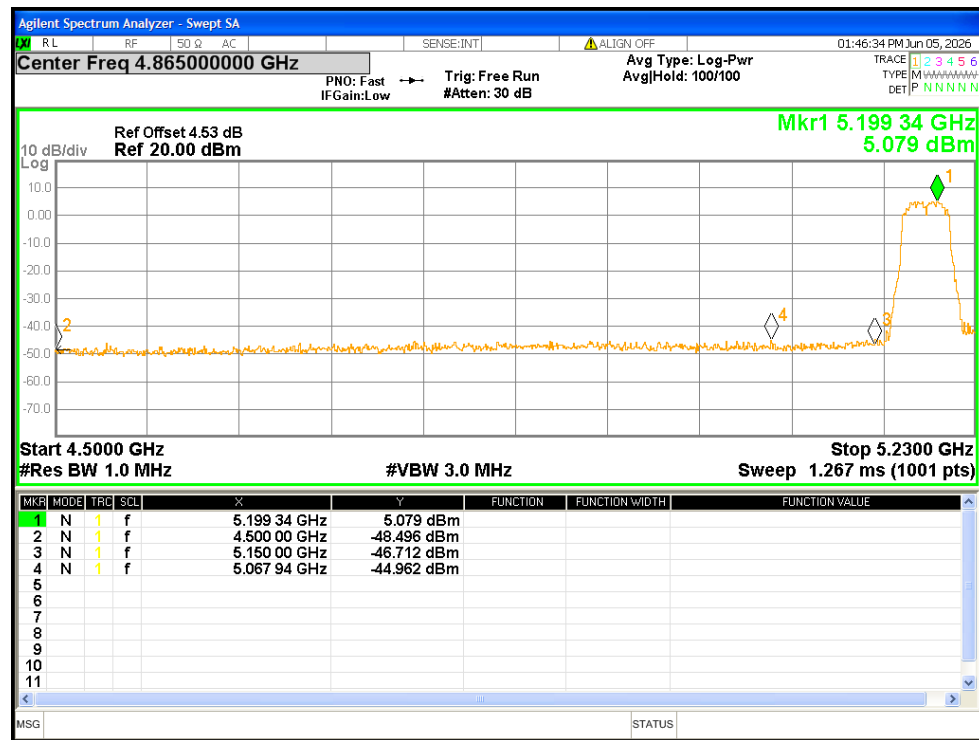
Restrict Band NVNT n20 5240MHz Peak



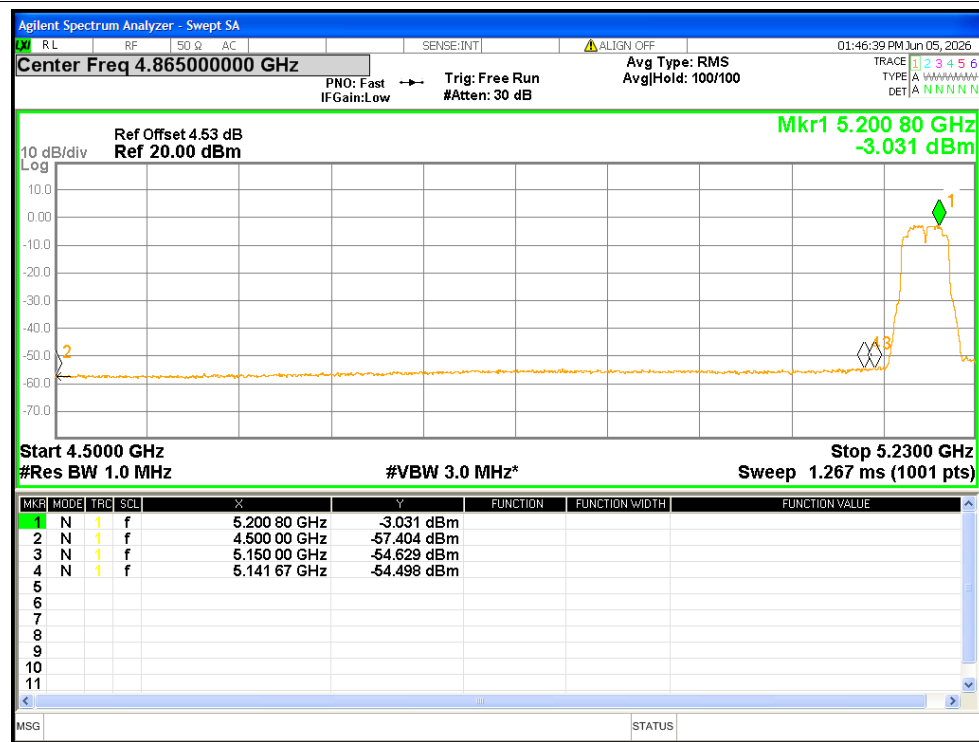
Restrict Band NVNT n20 5240MHz Average



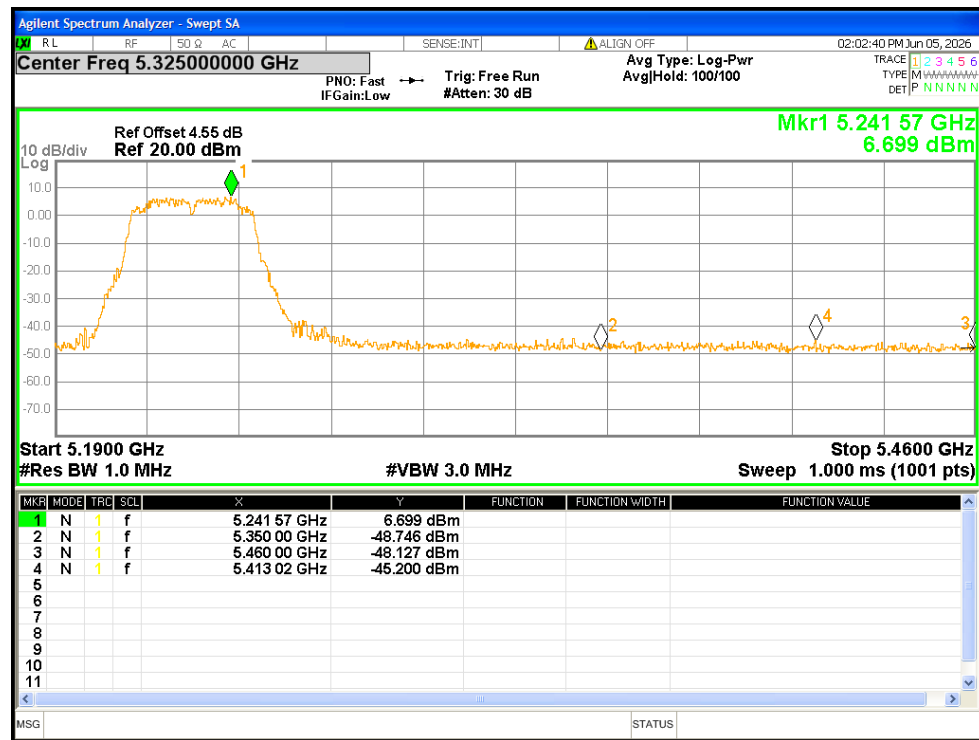
Restrict Band NVNT n40 5190MHz Peak



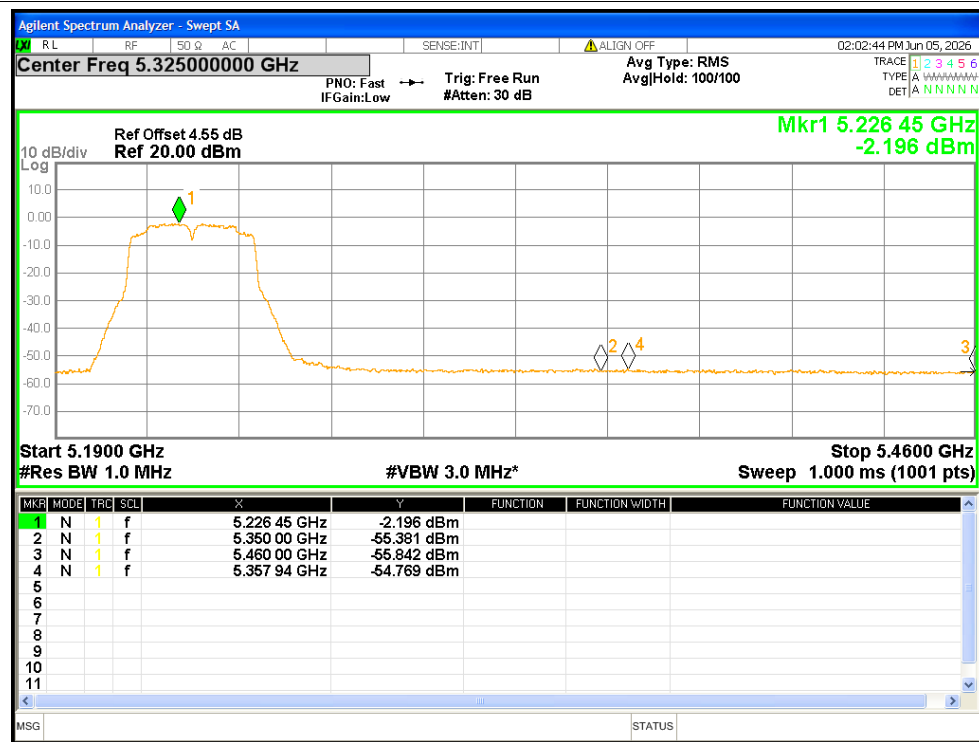
Restrict Band NVNT n40 5190MHz Average



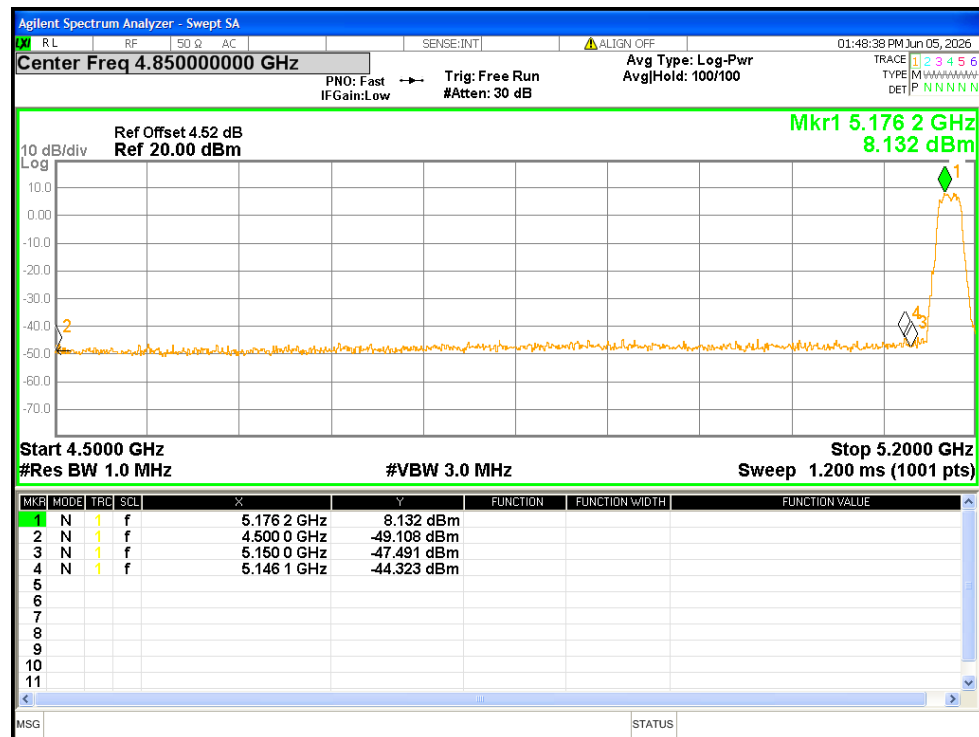
Restrict Band NVNT n40 5230MHz Peak



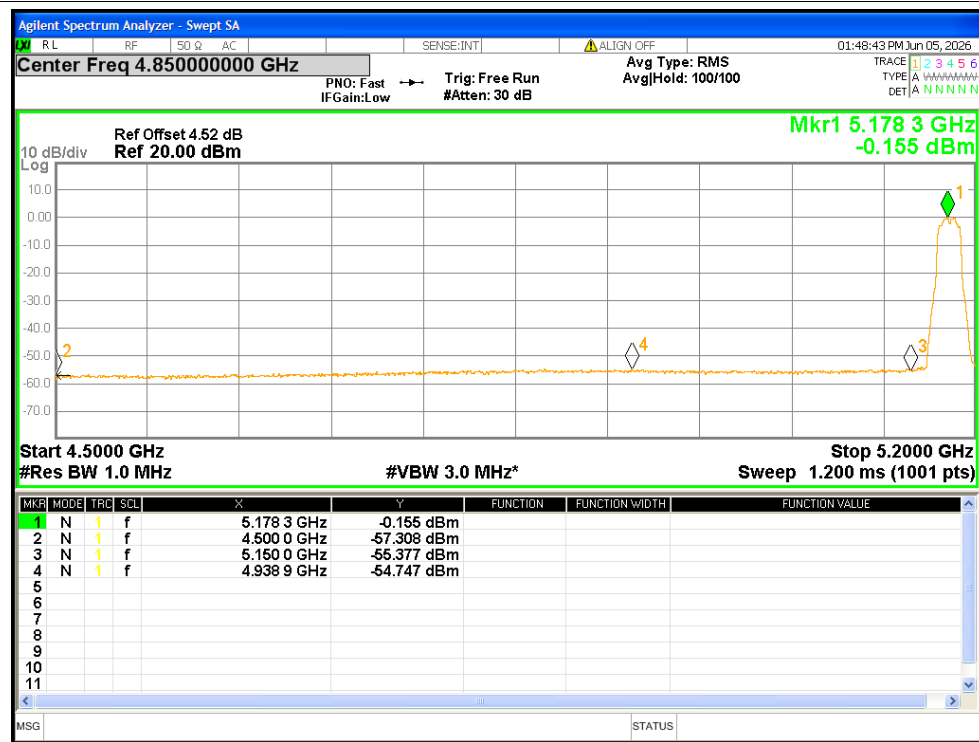
Restrict Band NVNT n40 5230MHz Average



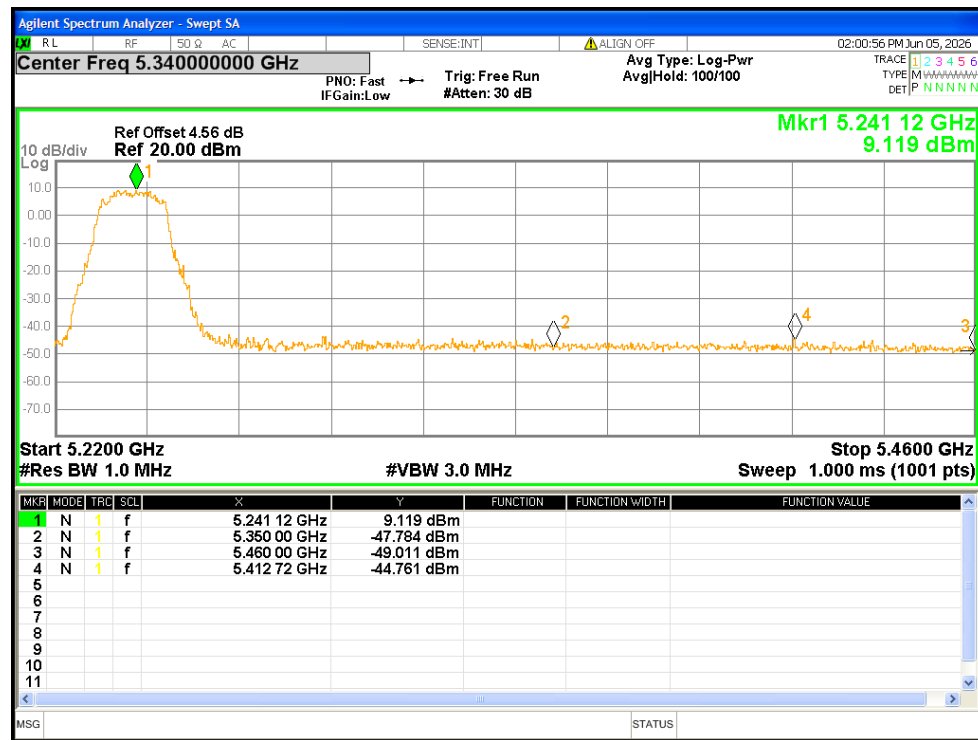
Restrict Band NVNT ac20 5180MHz Peak



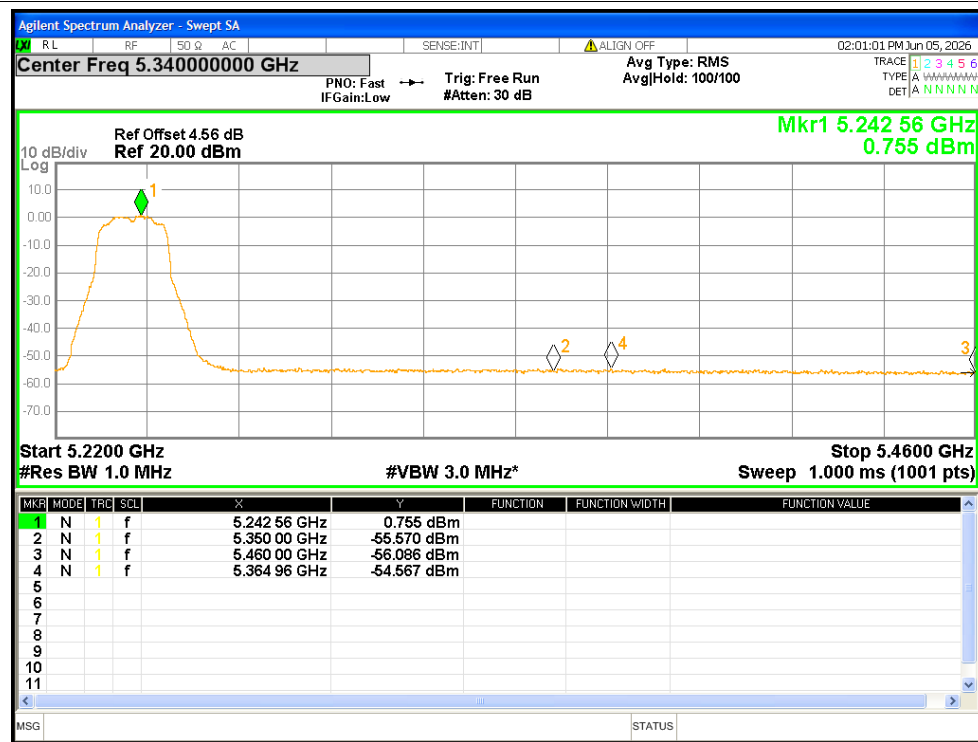
Restrict Band NVNT ac20 5180MHz Average



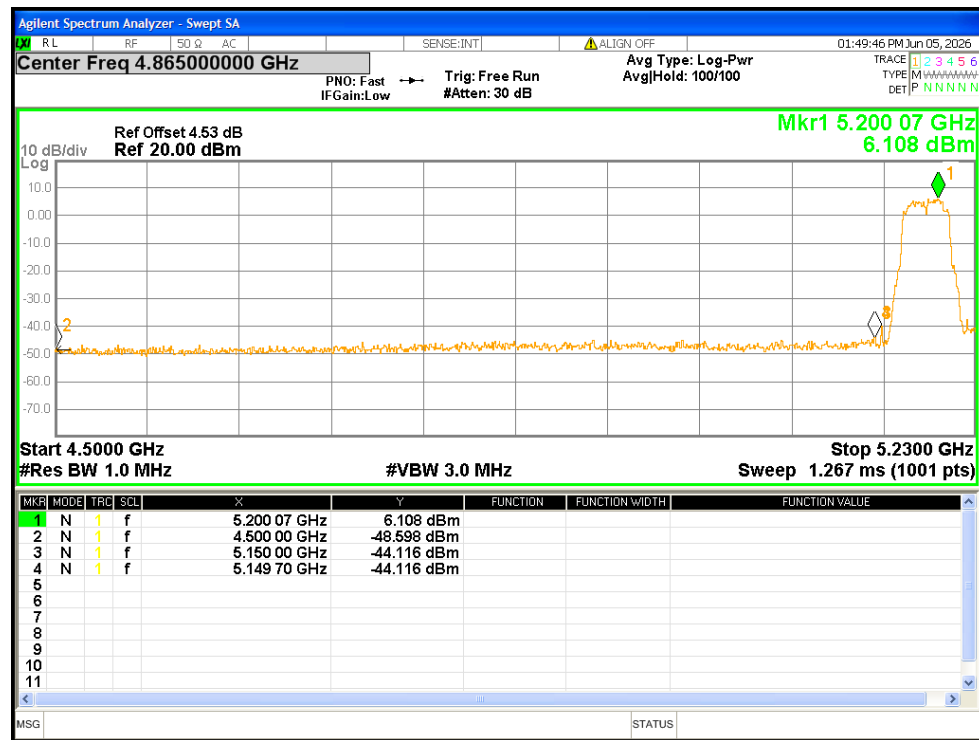
Restrict Band NVNT ac20 5240MHz Peak



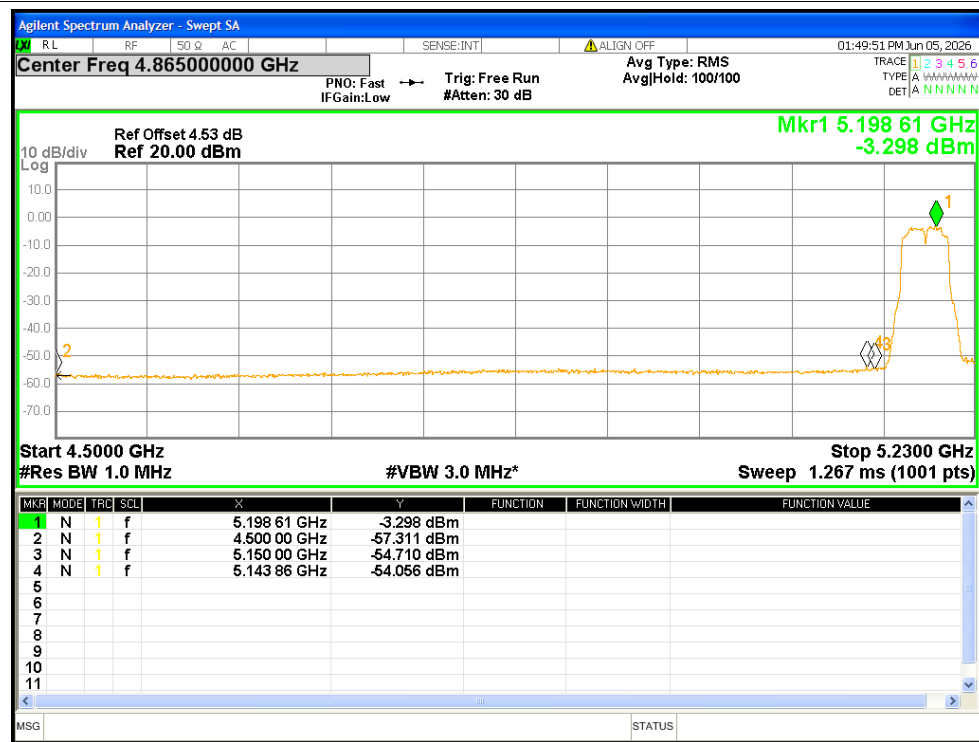
Restrict Band NVNT ac20 5240MHz Average



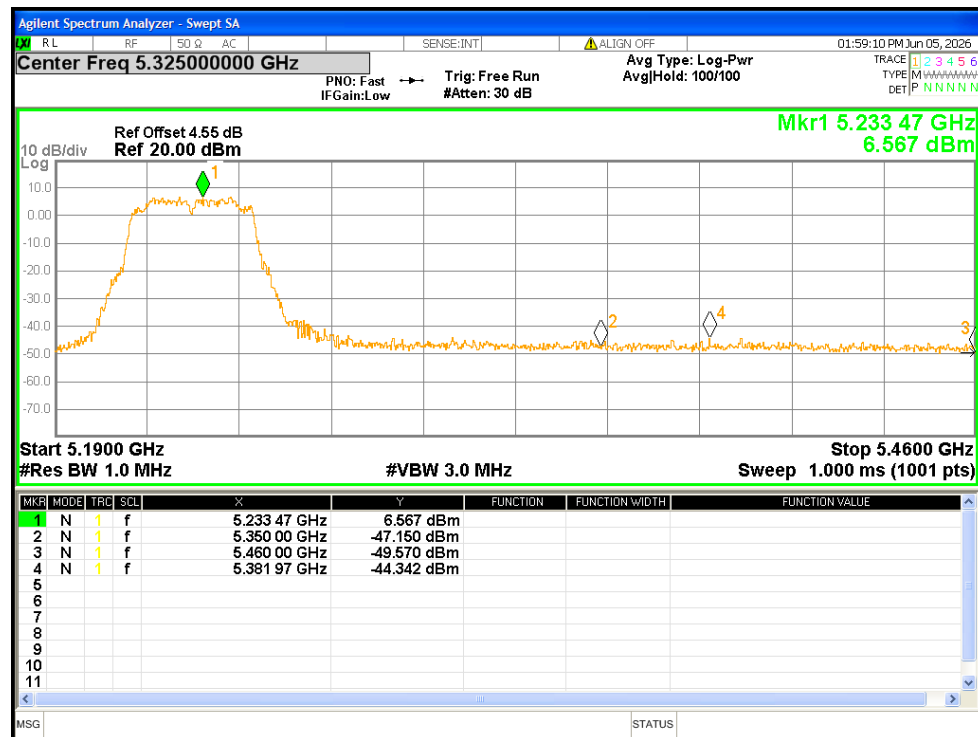
Restrict Band NVNT ac40 5190MHz Peak



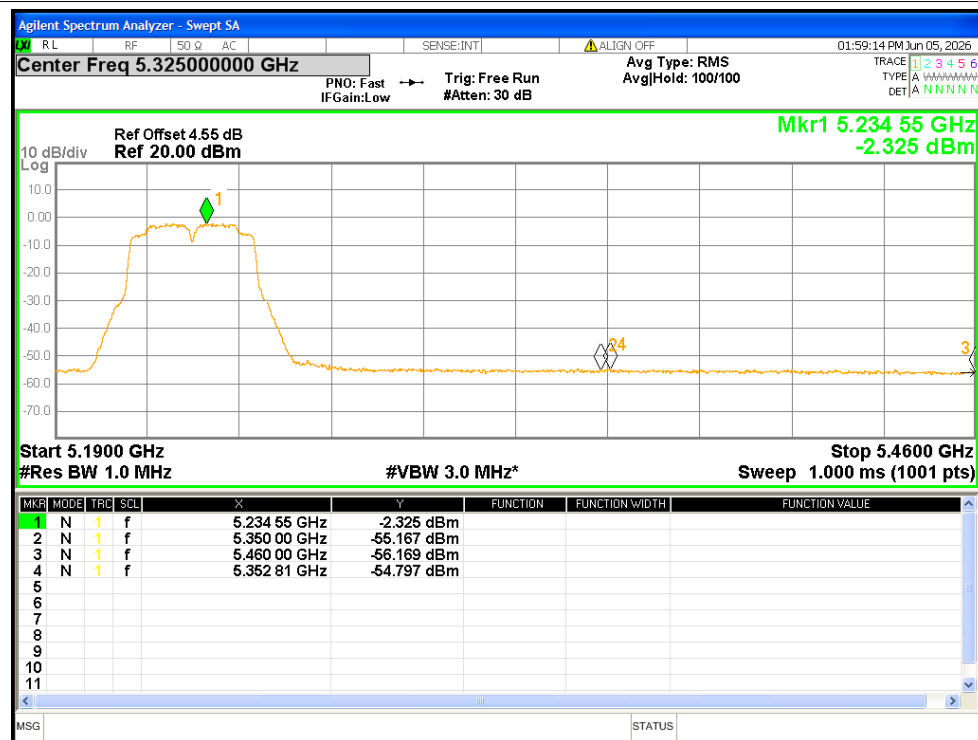
Restrict Band NVNT ac40 5190MHz Average



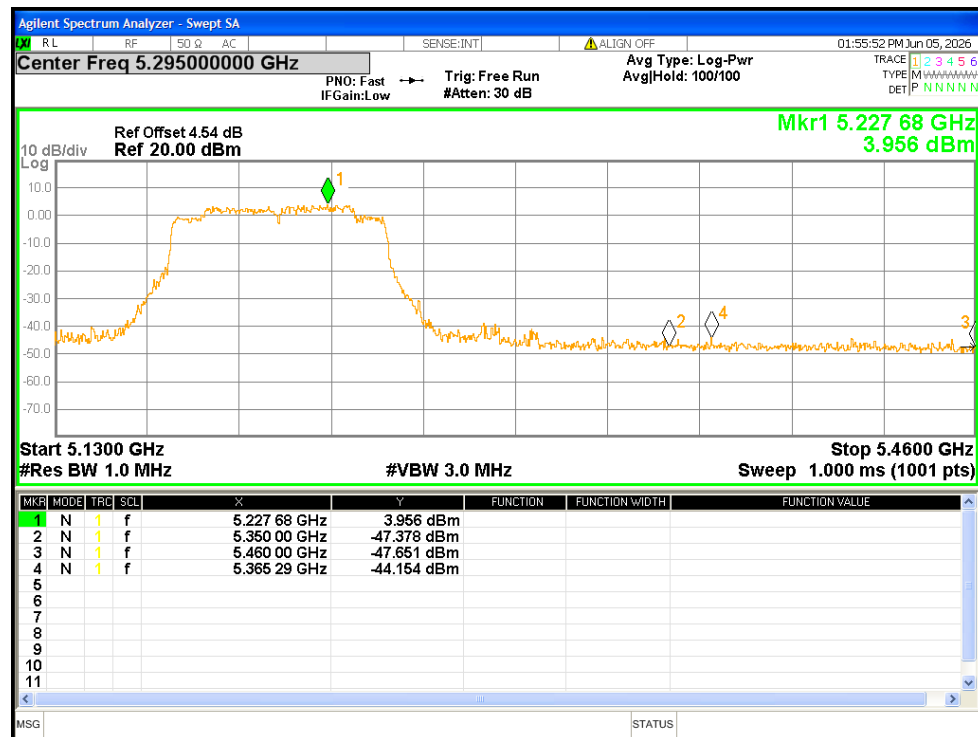
Restrict Band NVNT ac40 5230MHz Peak



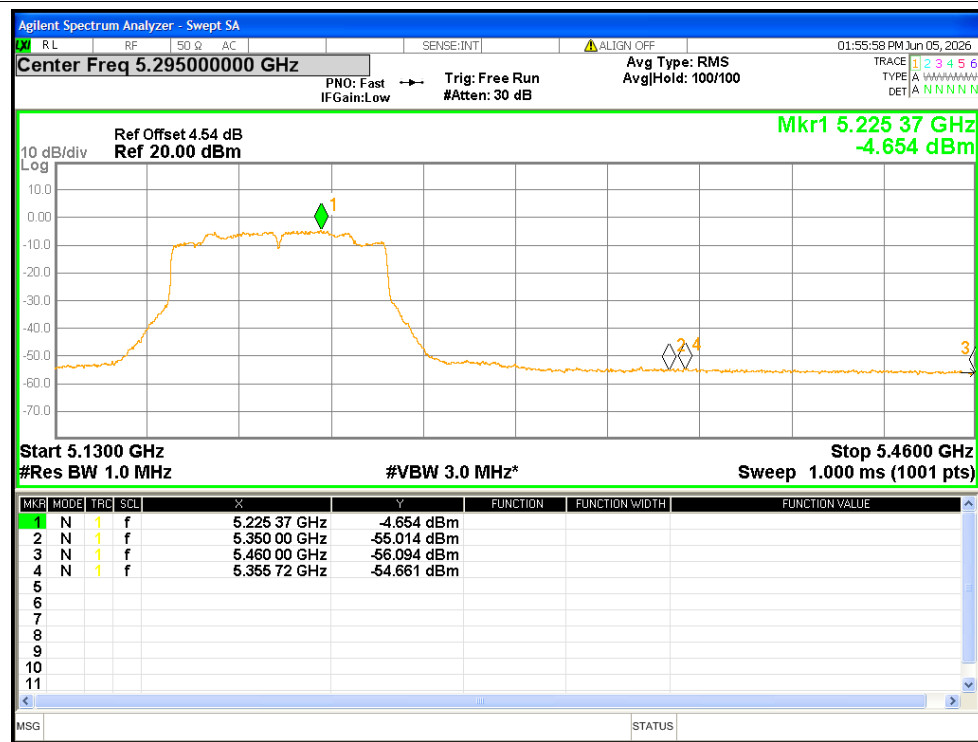
Restrict Band NVNT ac40 5230MHz Average



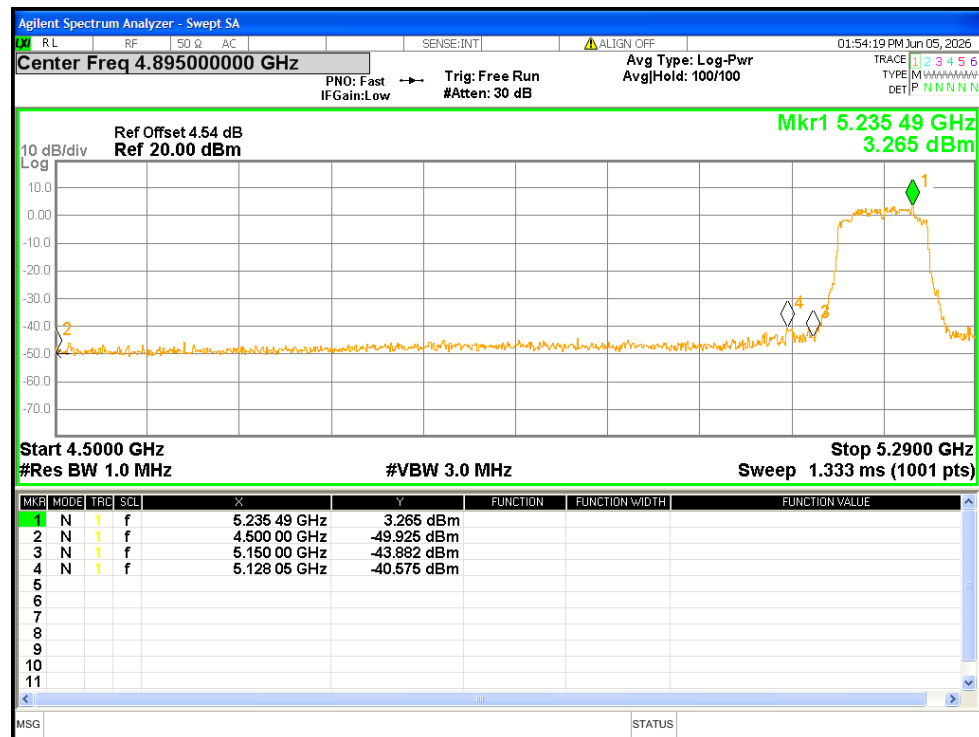
Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average



Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average

