



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: AAWireless 2

Test Model: AAW2

Environmental Conditions

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





D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.671	---	Pass
NVNT	a	5200	Ant1	23.904	---	Pass
NVNT	a	5240	Ant1	23.252	---	Pass
NVNT	n20	5180	Ant1	26.955	---	Pass
NVNT	n20	5200	Ant1	25.886	---	Pass
NVNT	n20	5240	Ant1	24.796	---	Pass
NVNT	n40	5190	Ant1	50.651	---	Pass
NVNT	n40	5230	Ant1	46.362	---	Pass
NVNT	ac20	5180	Ant1	25.901	---	Pass
NVNT	ac20	5200	Ant1	27.236	---	Pass
NVNT	ac20	5240	Ant1	25.35	---	Pass
NVNT	ac40	5190	Ant1	42.289	---	Pass
NVNT	ac40	5230	Ant1	48.55	---	Pass
NVNT	ac80	5210	Ant1	80.818	---	Pass

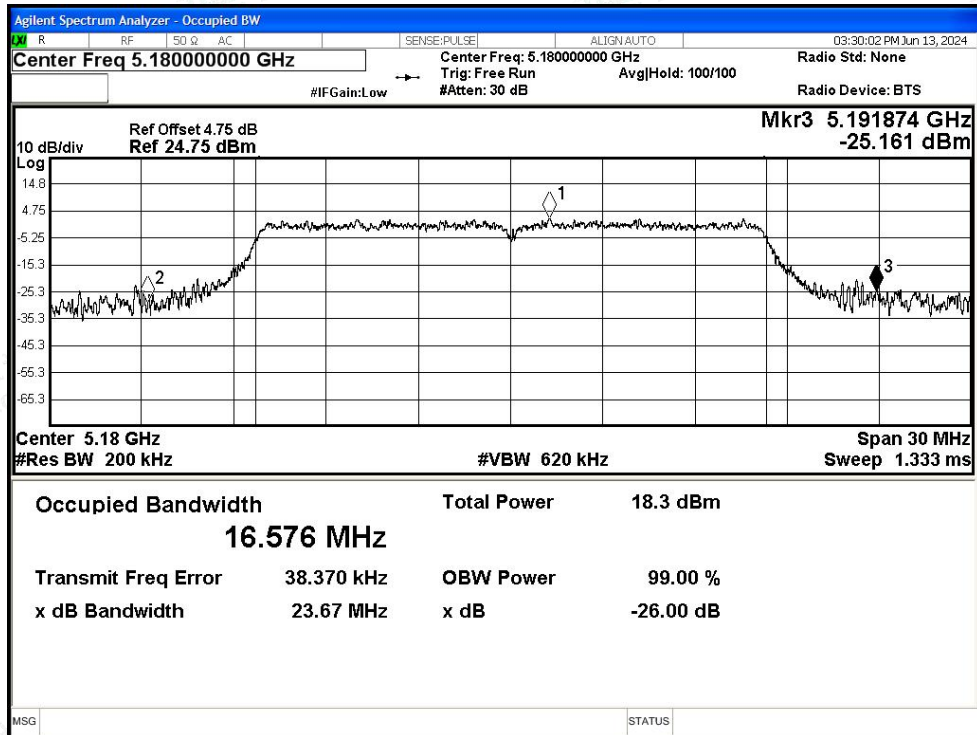


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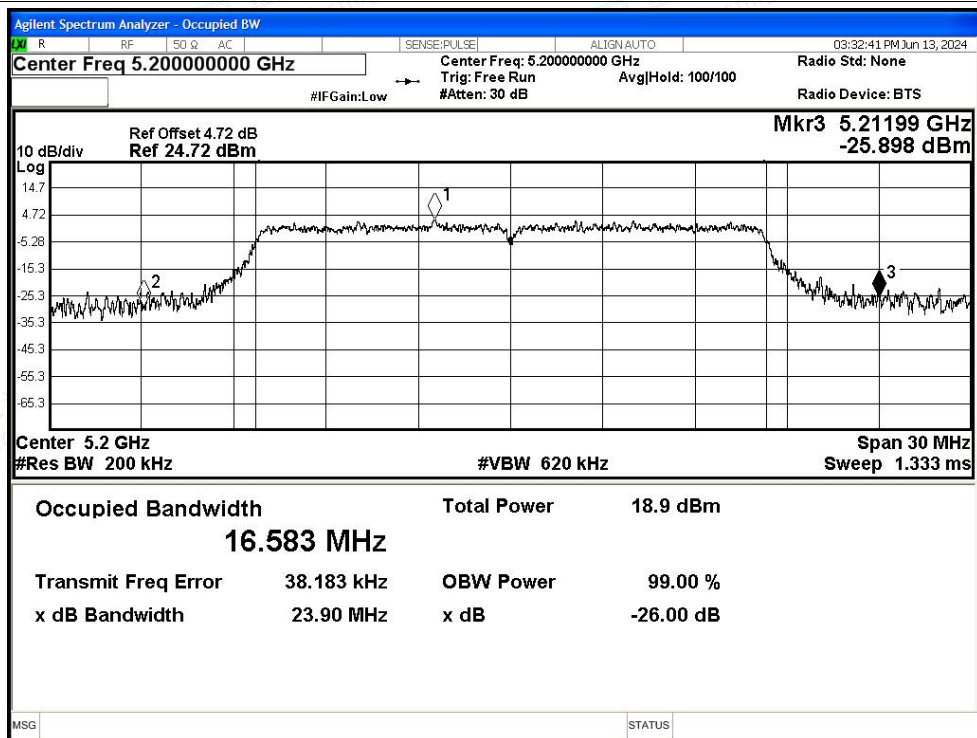


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

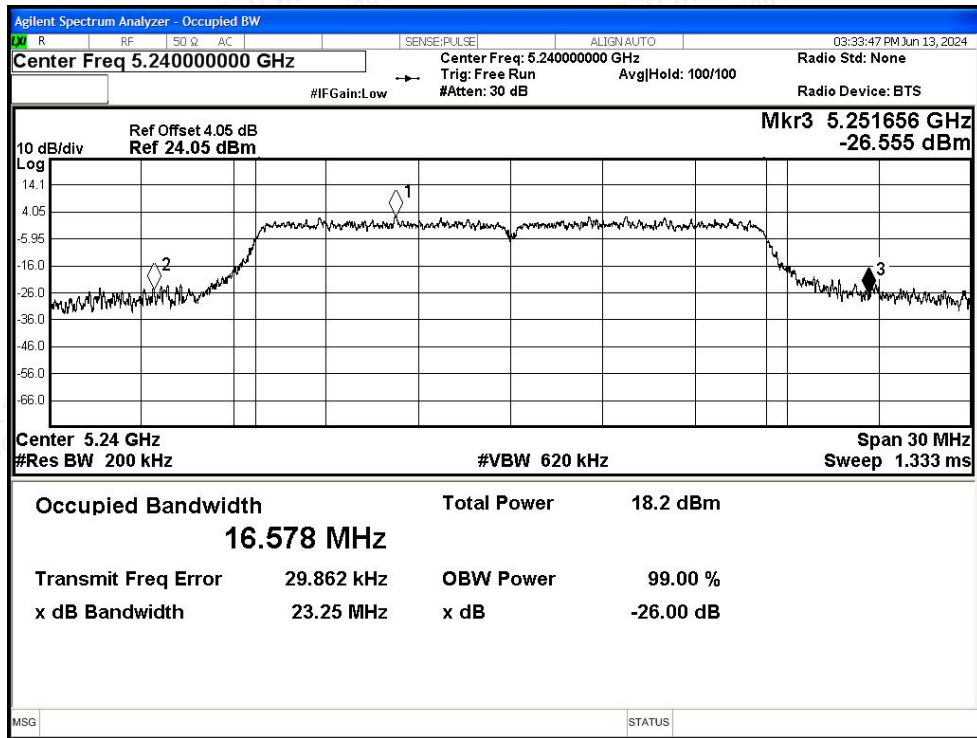


-26dB Bandwidth NVNT a 5200MHz Ant1

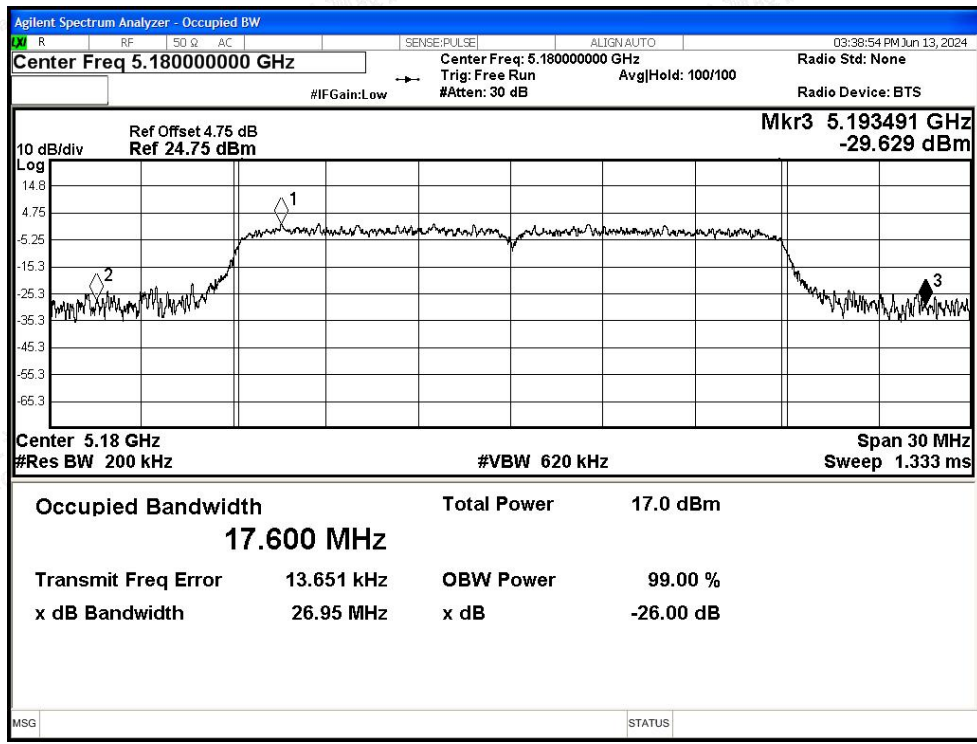




-26dB Bandwidth NVNT a 5240MHz Ant1

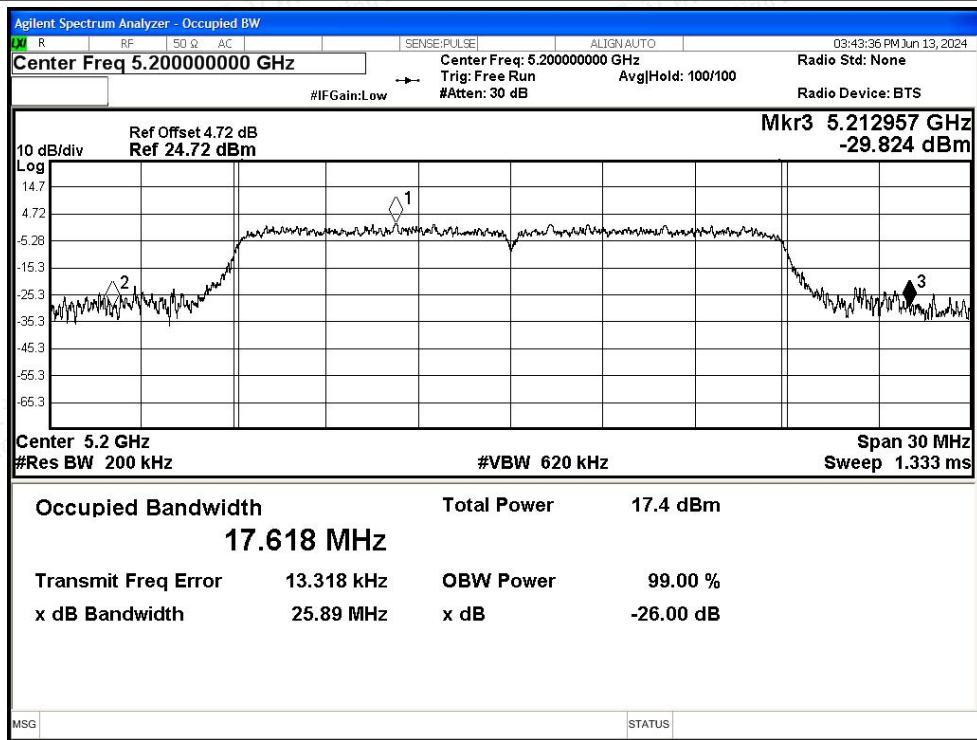


-26dB Bandwidth NVNT n20 5180MHz Ant1

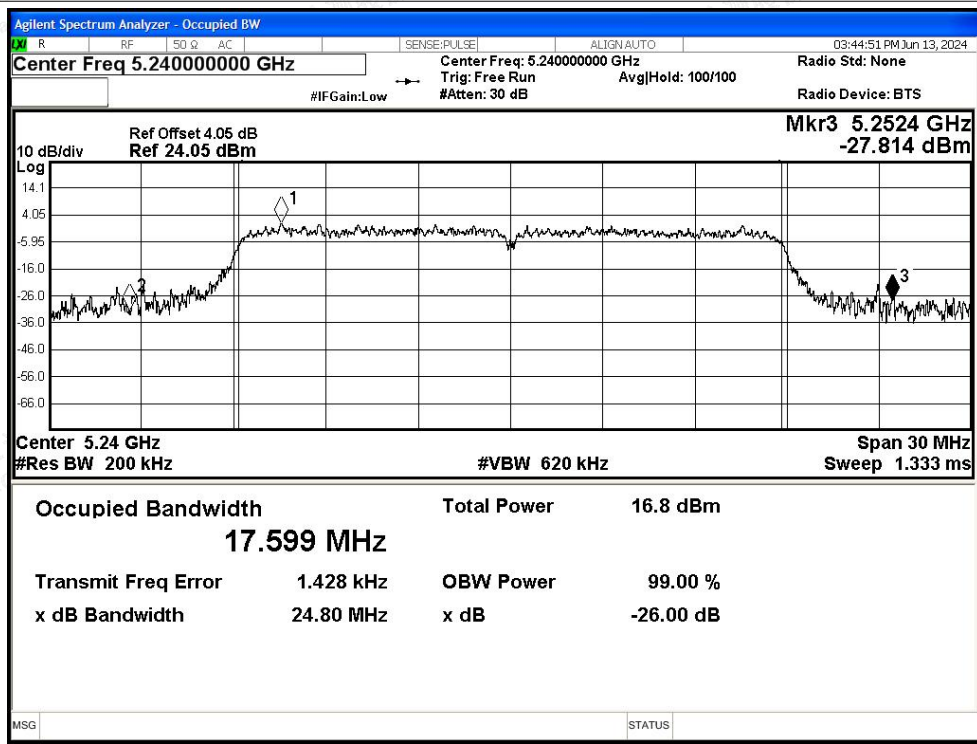




-26dB Bandwidth NVNT n20 5200MHz Ant1

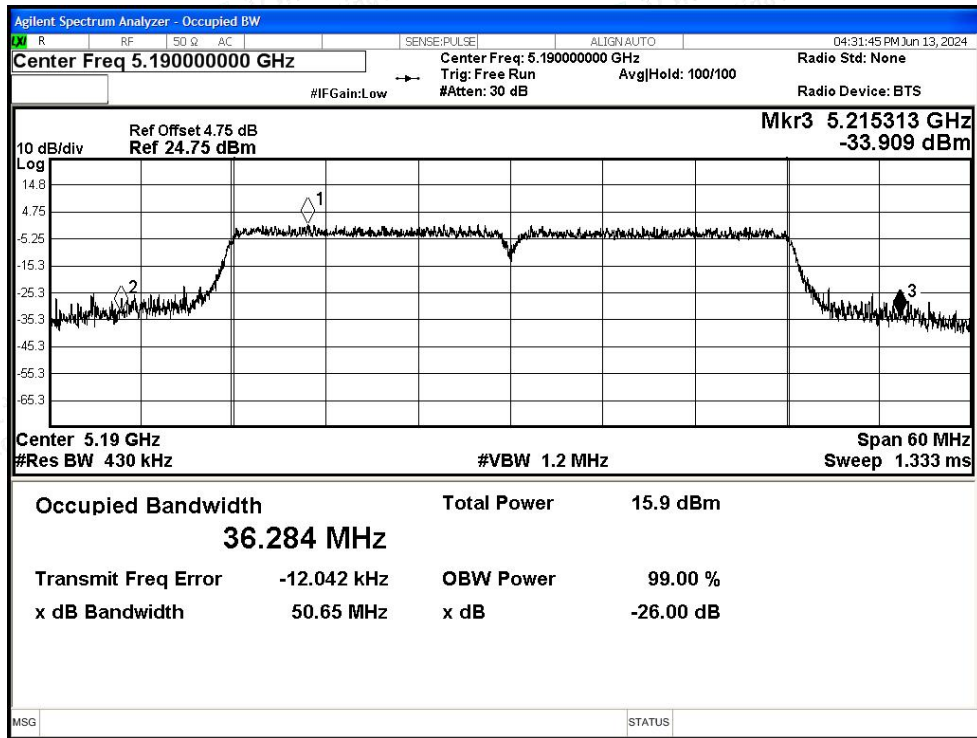


-26dB Bandwidth NVNT n20 5240MHz Ant1

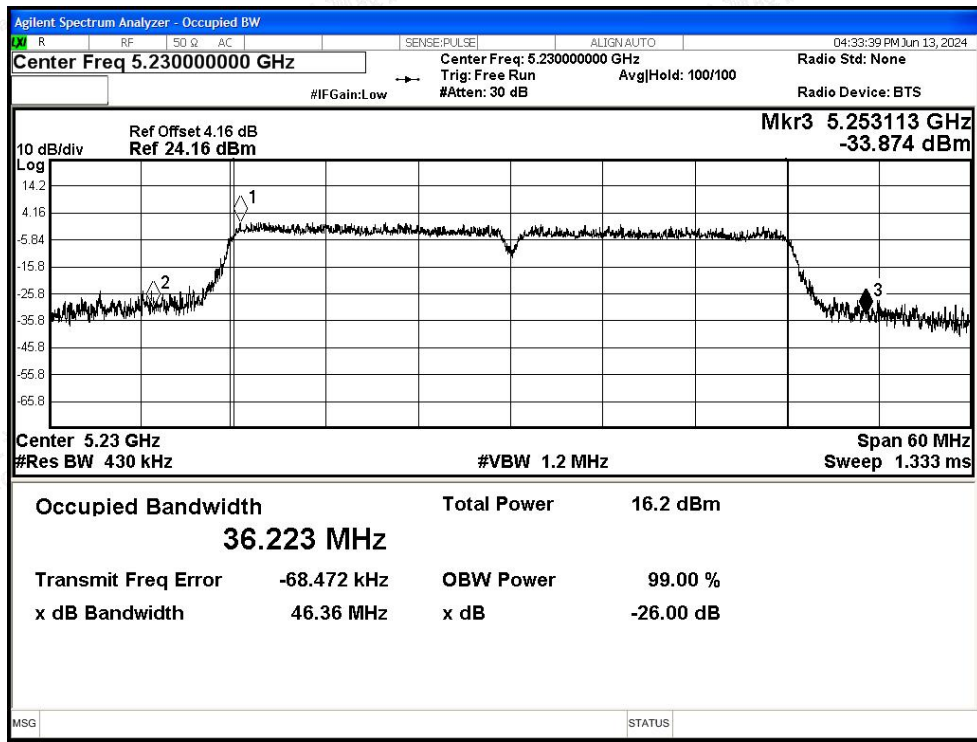




-26dB Bandwidth NVNT n40 5190MHz Ant1

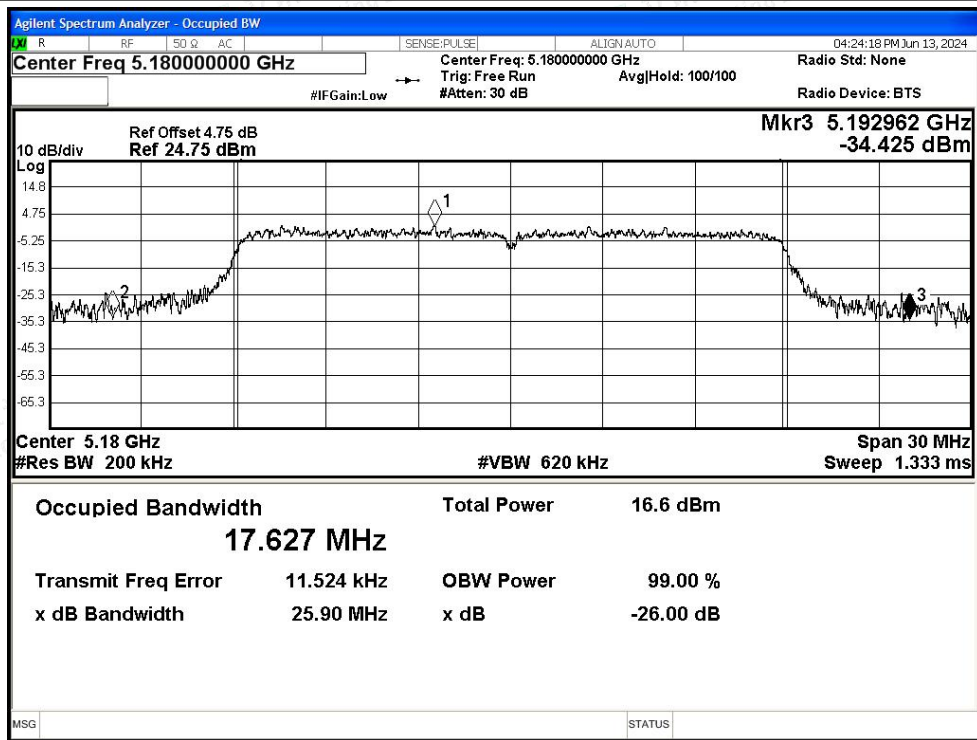


-26dB Bandwidth NVNT n40 5230MHz Ant1

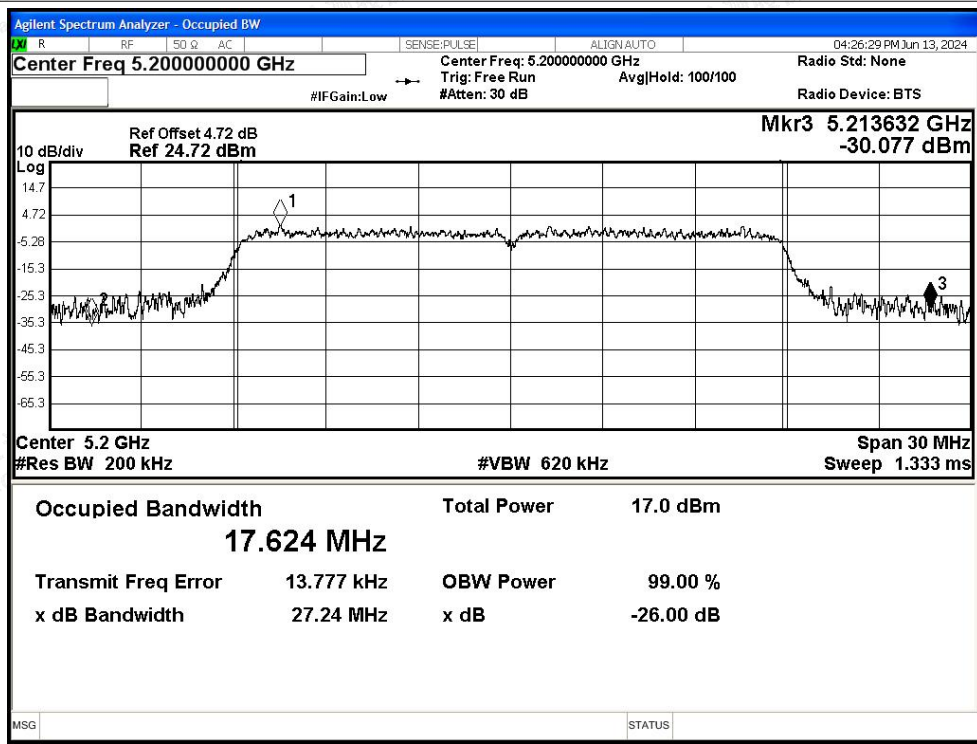




-26dB Bandwidth NVNT ac20 5180MHz Ant1

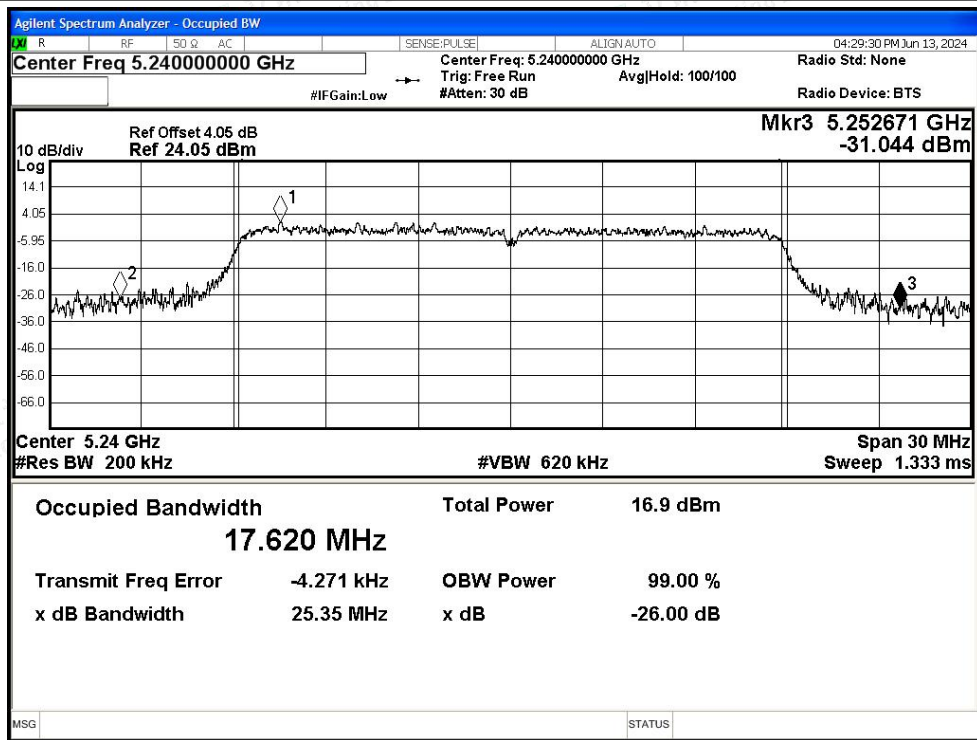


-26dB Bandwidth NVNT ac20 5200MHz Ant1

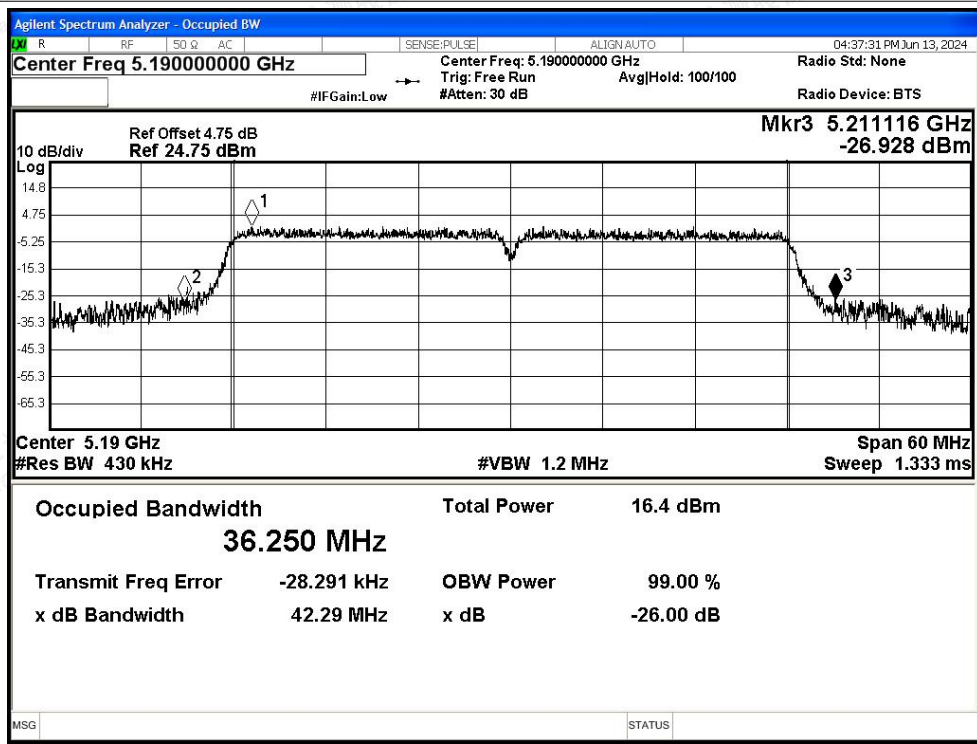




-26dB Bandwidth NVNT ac20 5240MHz Ant1

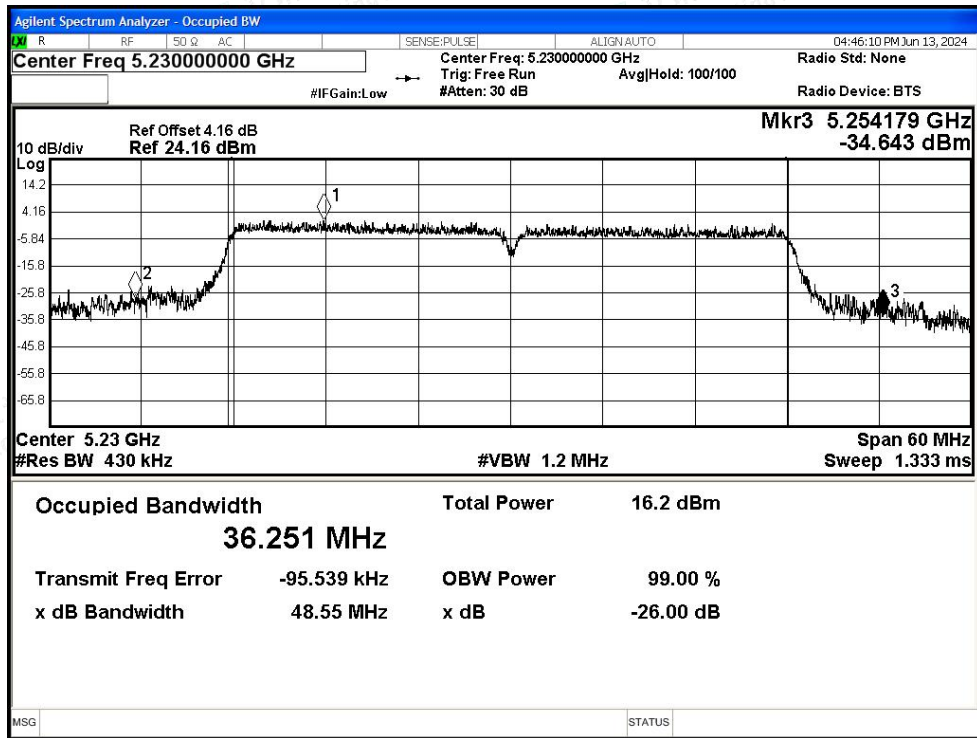


-26dB Bandwidth NVNT ac40 5190MHz Ant1

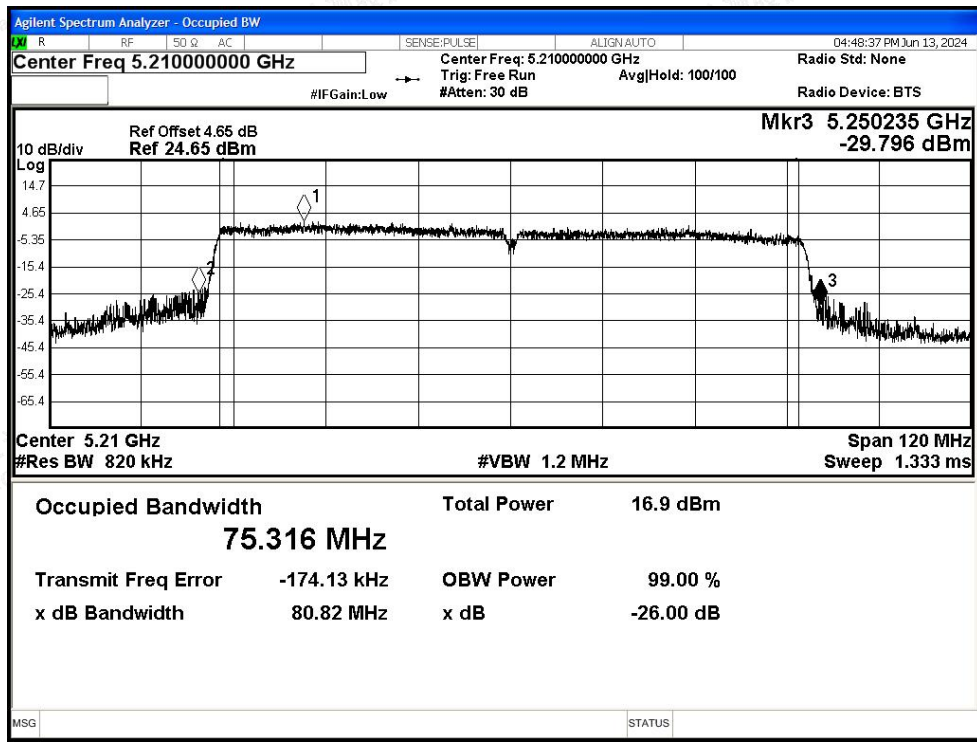




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz 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	-4.58	0.24	-4.34	24	Pass
NVNT	a	5200	Ant1	-4.67	0.24	-4.43	24	Pass
NVNT	a	5240	Ant1	-4.78	0.24	-4.54	24	Pass
NVNT	n20	5180	Ant1	-4.50	0.28	-4.22	24	Pass
NVNT	n20	5200	Ant1	-4.58	0.28	-4.30	24	Pass
NVNT	n20	5240	Ant1	-4.61	0.28	-4.33	24	Pass
NVNT	n40	5190	Ant1	-4.80	0.45	-4.35	24	Pass
NVNT	n40	5230	Ant1	-4.85	0.45	-4.40	24	Pass
NVNT	ac20	5180	Ant1	-4.88	0.28	-4.60	24	Pass
NVNT	ac20	5200	Ant1	-4.51	0.28	-4.23	24	Pass
NVNT	ac20	5240	Ant1	-4.79	0.28	-4.51	24	Pass
NVNT	ac40	5190	Ant1	-4.77	0.45	-4.32	24	Pass
NVNT	ac40	5230	Ant1	-4.51	0.45	-4.06	24	Pass
NVNT	ac80	5210	Ant1	-4.92	0.65	-4.27	24	Pass



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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	Ant1	2.64	0.24	2.88	11	Pass
NVNT	a	5200	Ant1	2.76	0.24	3.00	11	Pass
NVNT	a	5240	Ant1	2.09	0.24	2.33	11	Pass
NVNT	n20	5180	Ant1	1.01	0.28	1.29	11	Pass
NVNT	n20	5200	Ant1	0.71	0.28	0.99	11	Pass
NVNT	n20	5240	Ant1	0.58	0.28	0.86	11	Pass
NVNT	n40	5190	Ant1	-3.45	0.45	-3.00	11	Pass
NVNT	n40	5230	Ant1	-2.61	0.45	-2.16	11	Pass
NVNT	ac20	5180	Ant1	0.45	0.28	0.73	11	Pass
NVNT	ac20	5200	Ant1	0.38	0.28	0.66	11	Pass
NVNT	ac20	5240	Ant1	0.66	0.28	0.94	11	Pass
NVNT	ac40	5190	Ant1	-3.13	0.45	-2.68	11	Pass
NVNT	ac40	5230	Ant1	-2.68	0.45	-2.23	11	Pass
NVNT	ac80	5210	Ant1	-5.78	0.65	-5.13	11	Pass

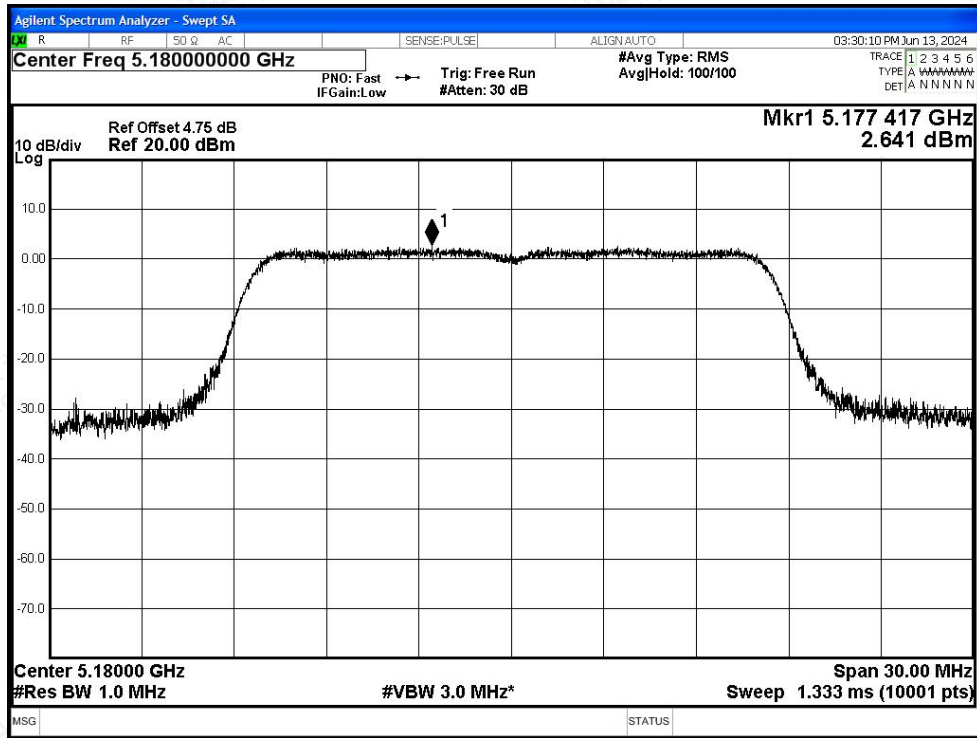


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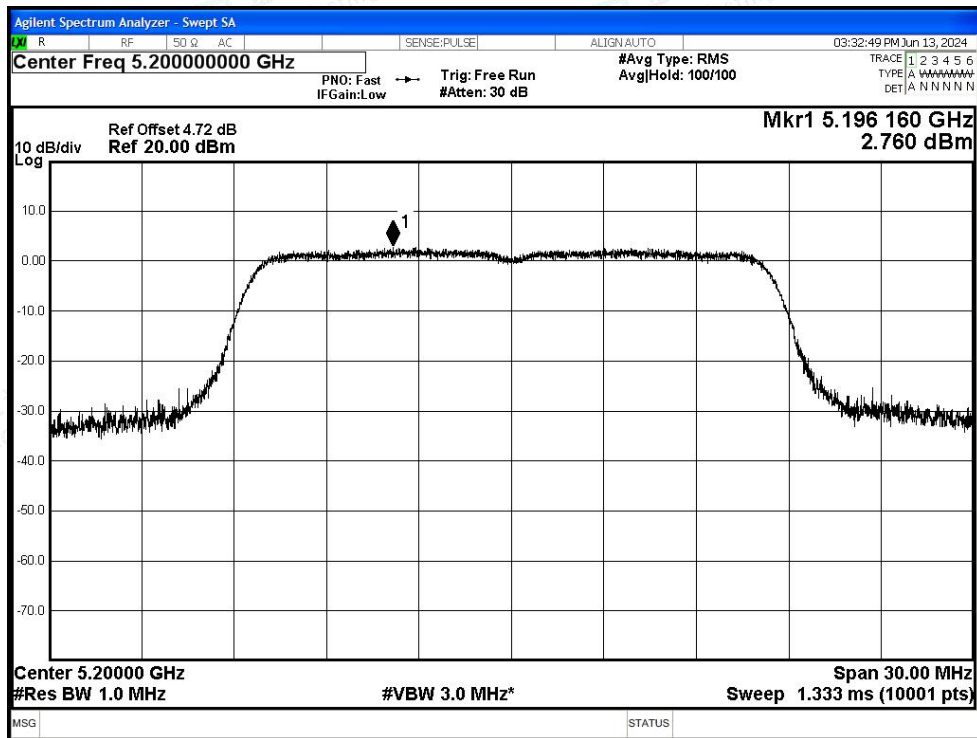


Test Graphs

PSD NVNT a 5180MHz Ant1

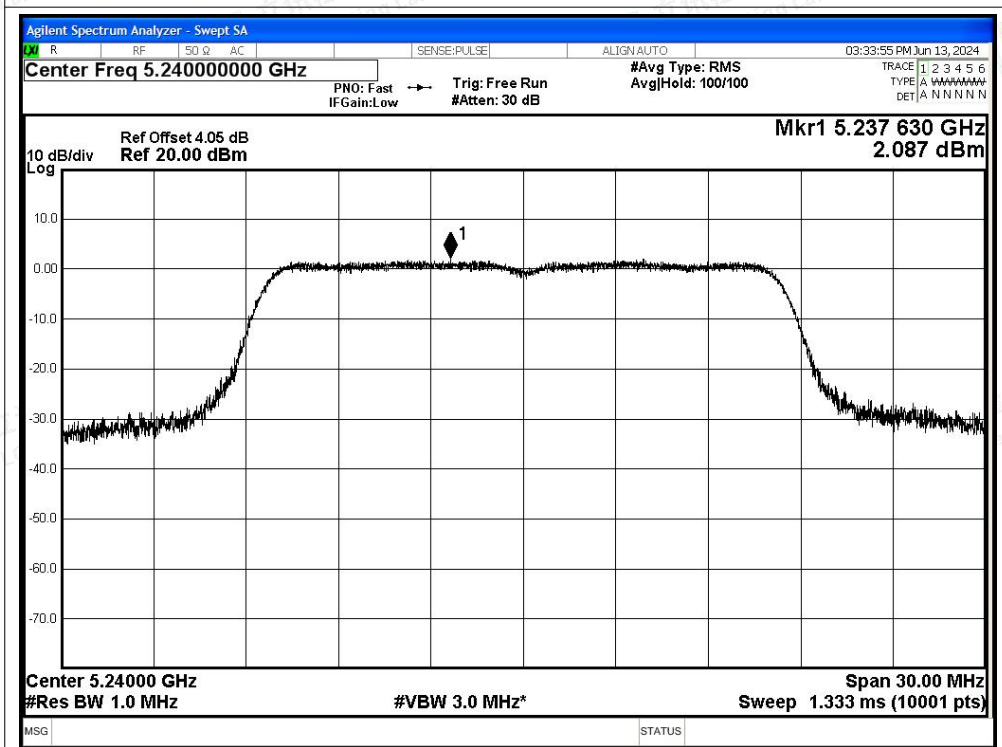


PSD NVNT a 5200MHz Ant1

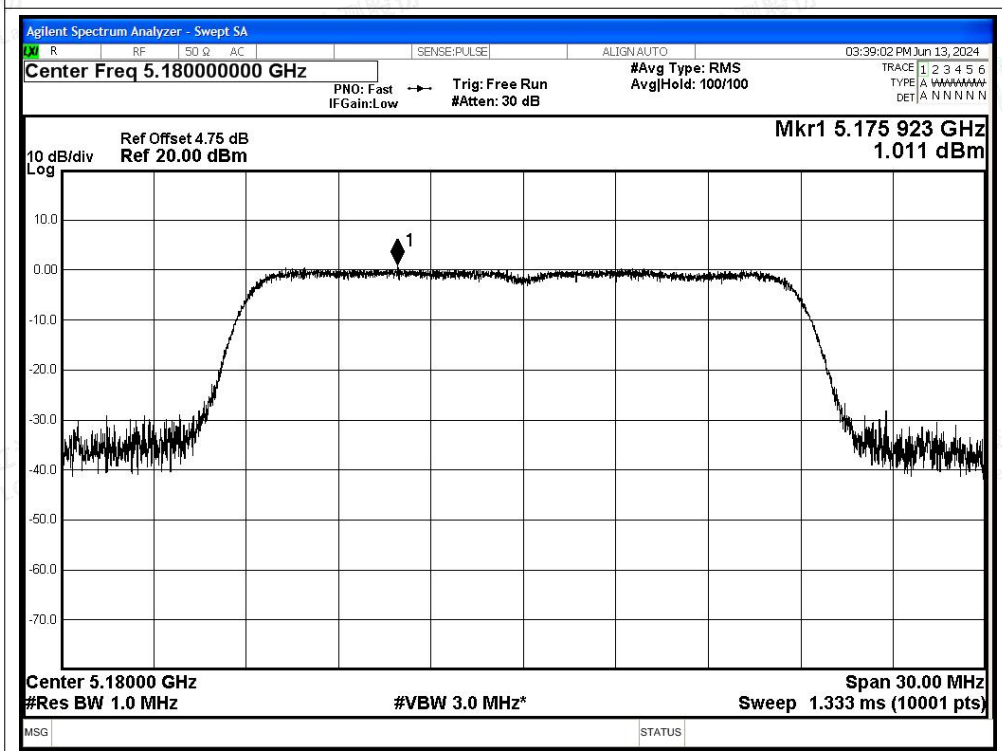


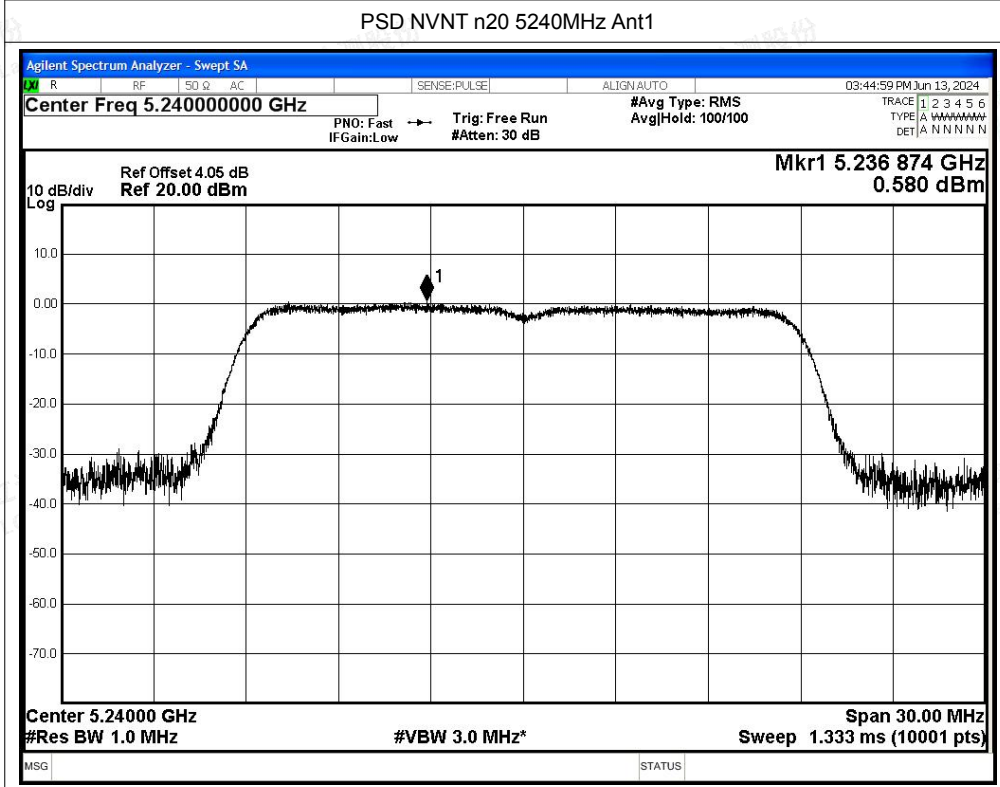
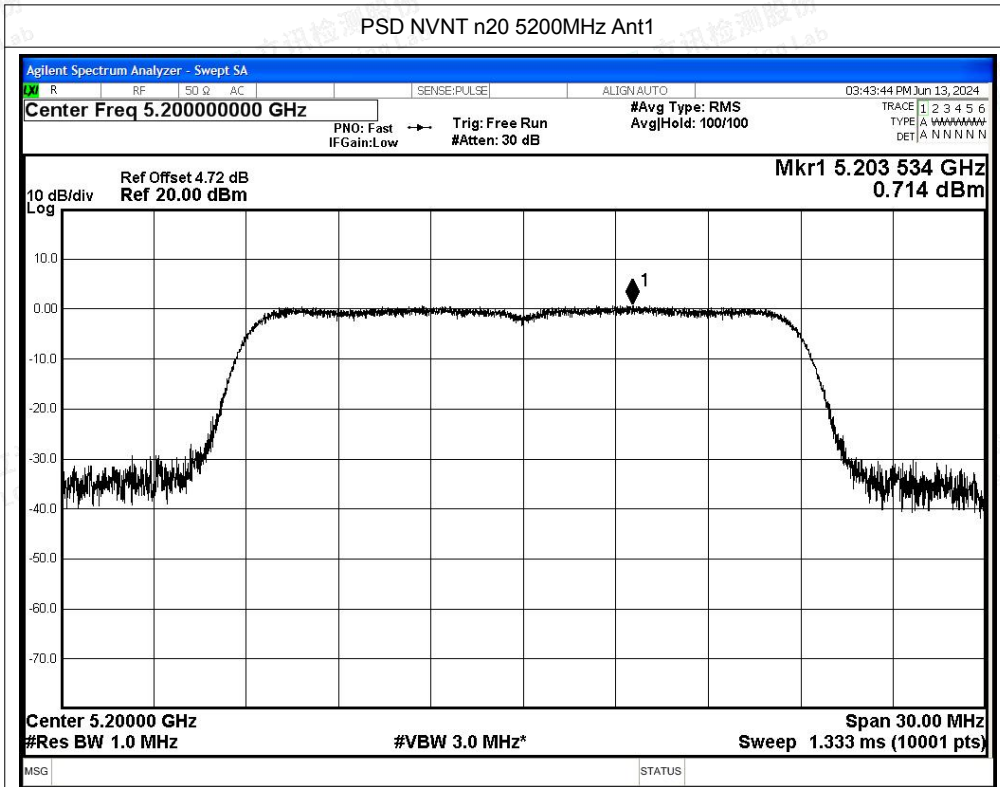


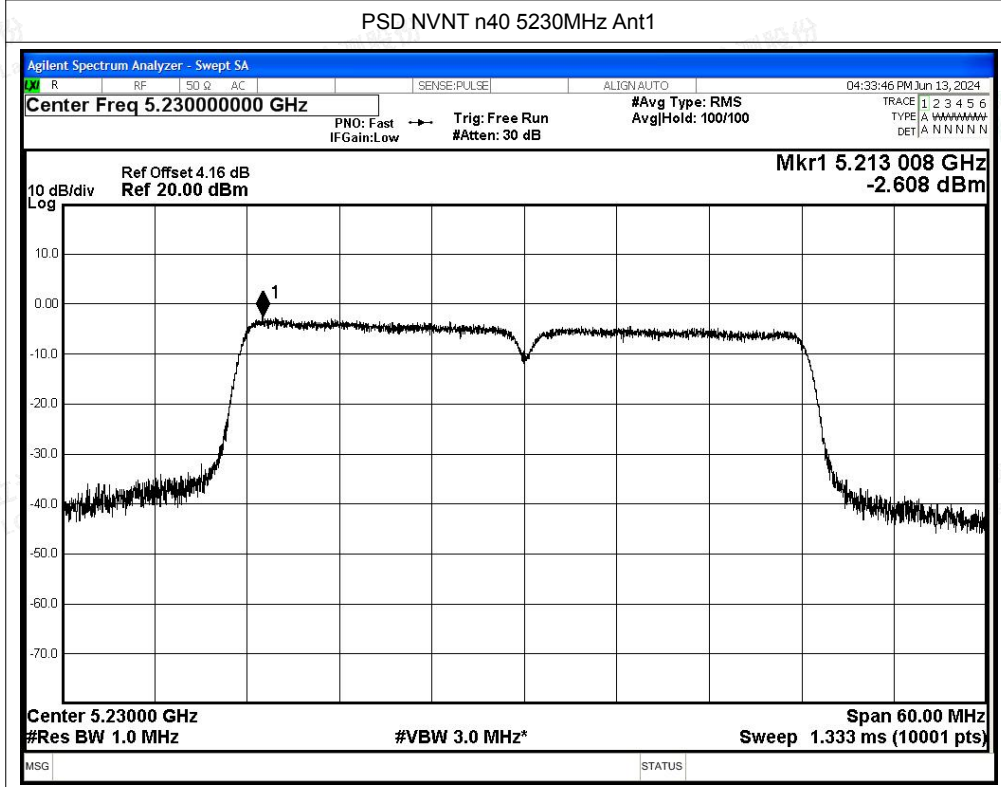
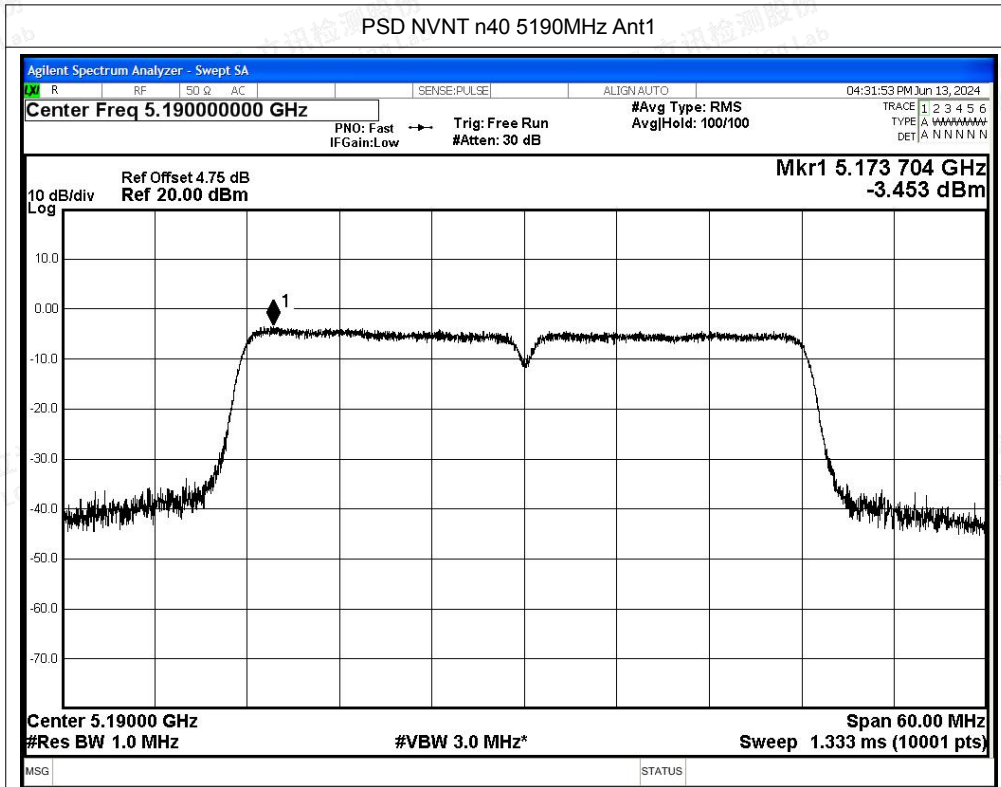
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

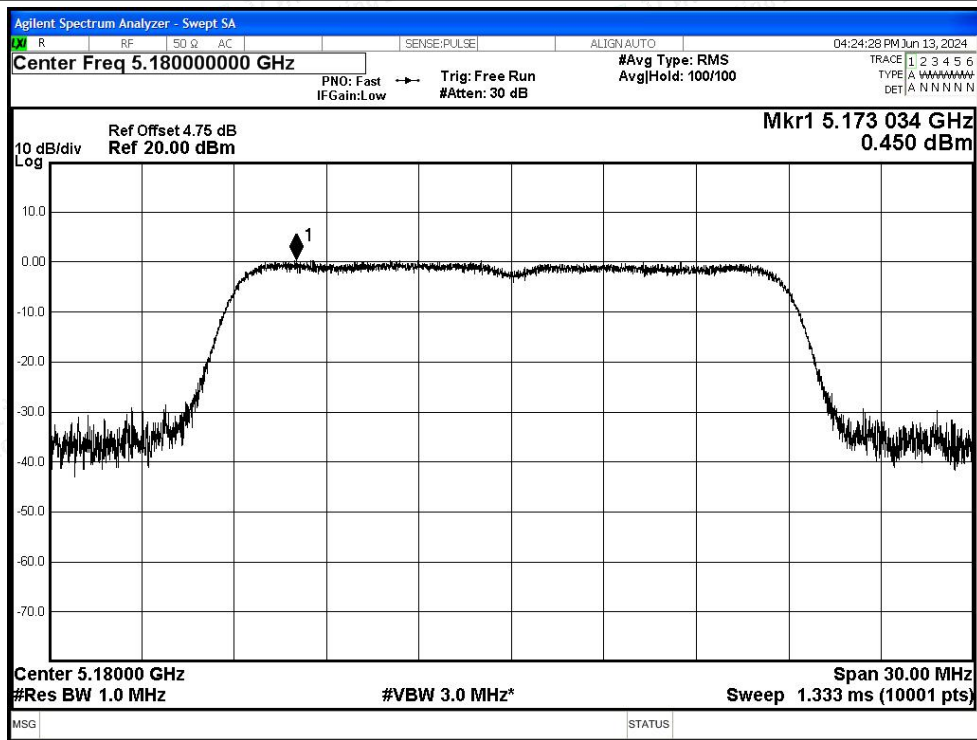




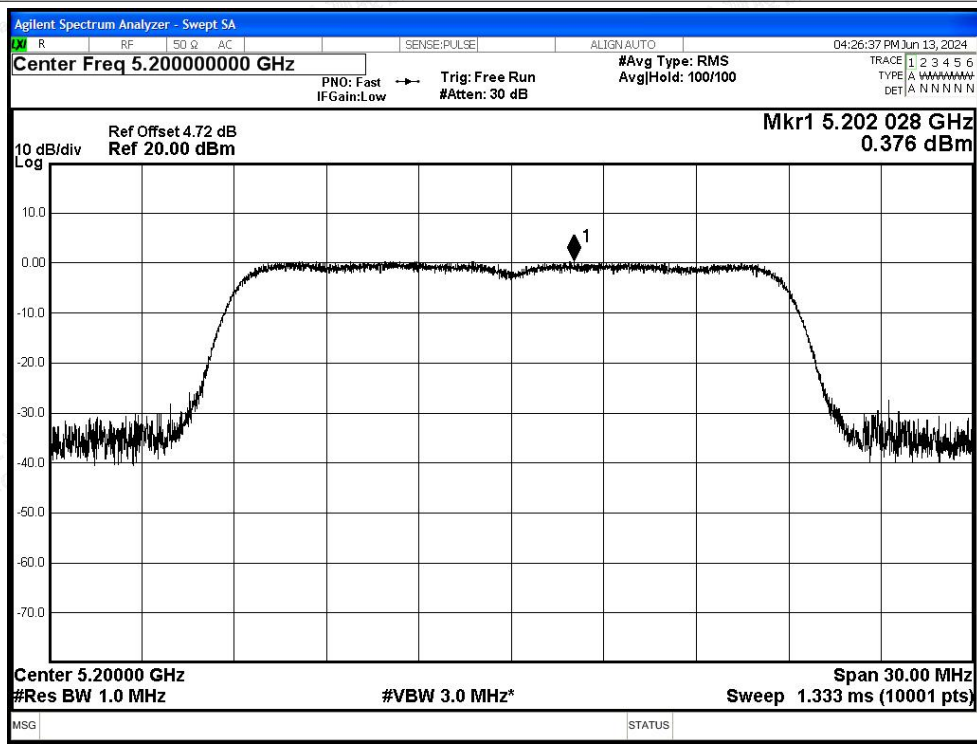




PSD NVNT ac20 5180MHz Ant1

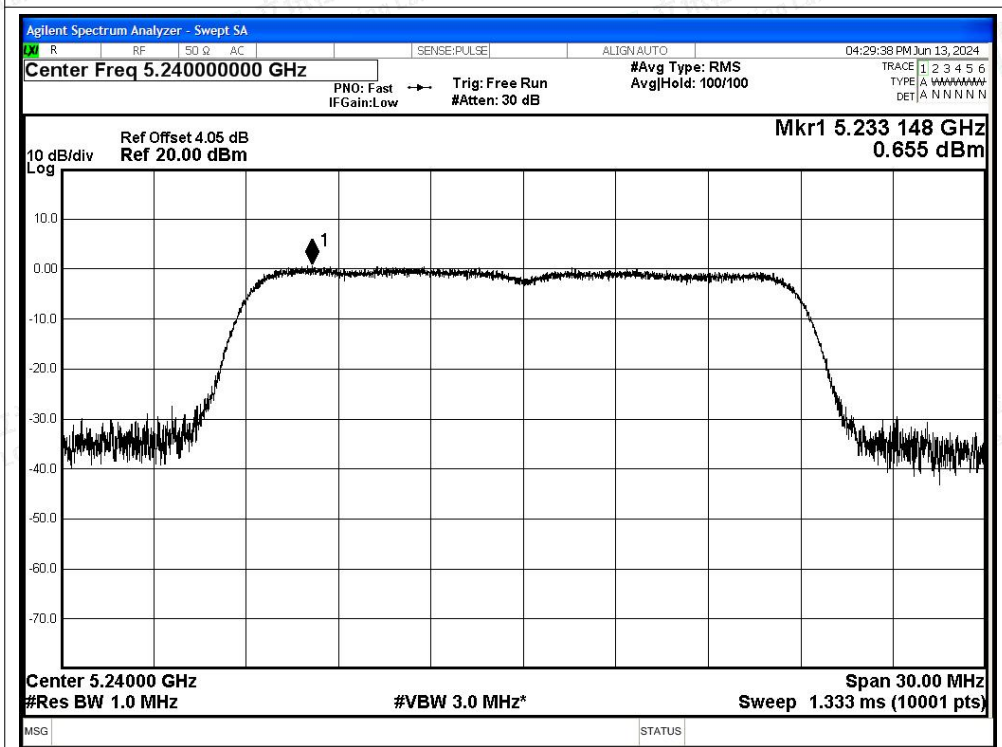


PSD NVNT ac20 5200MHz Ant1

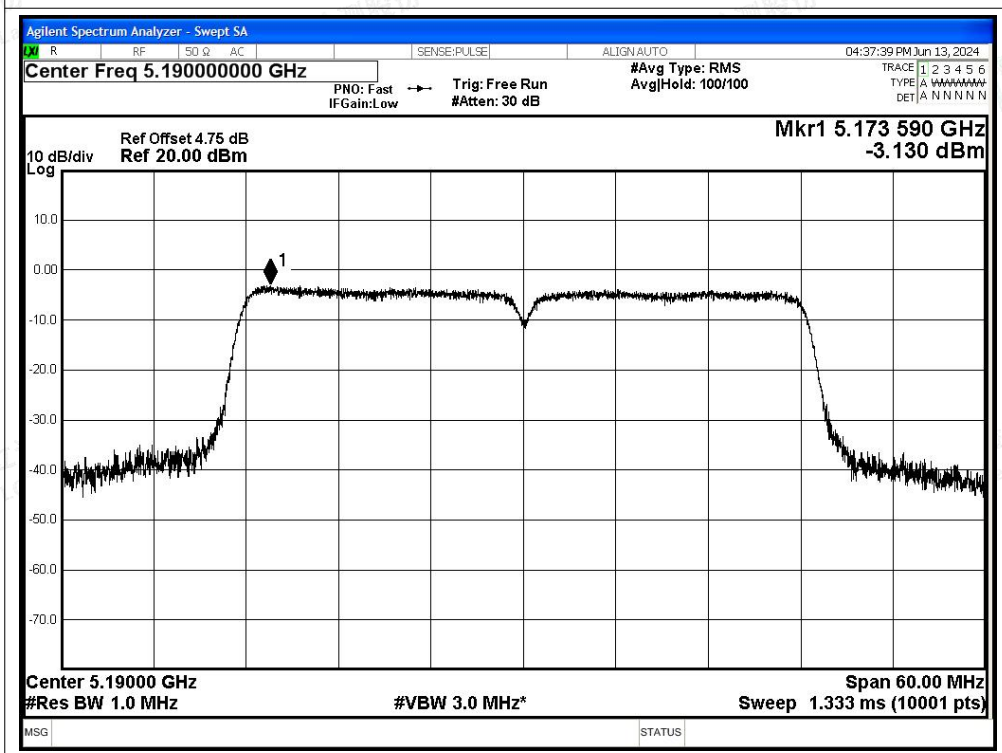


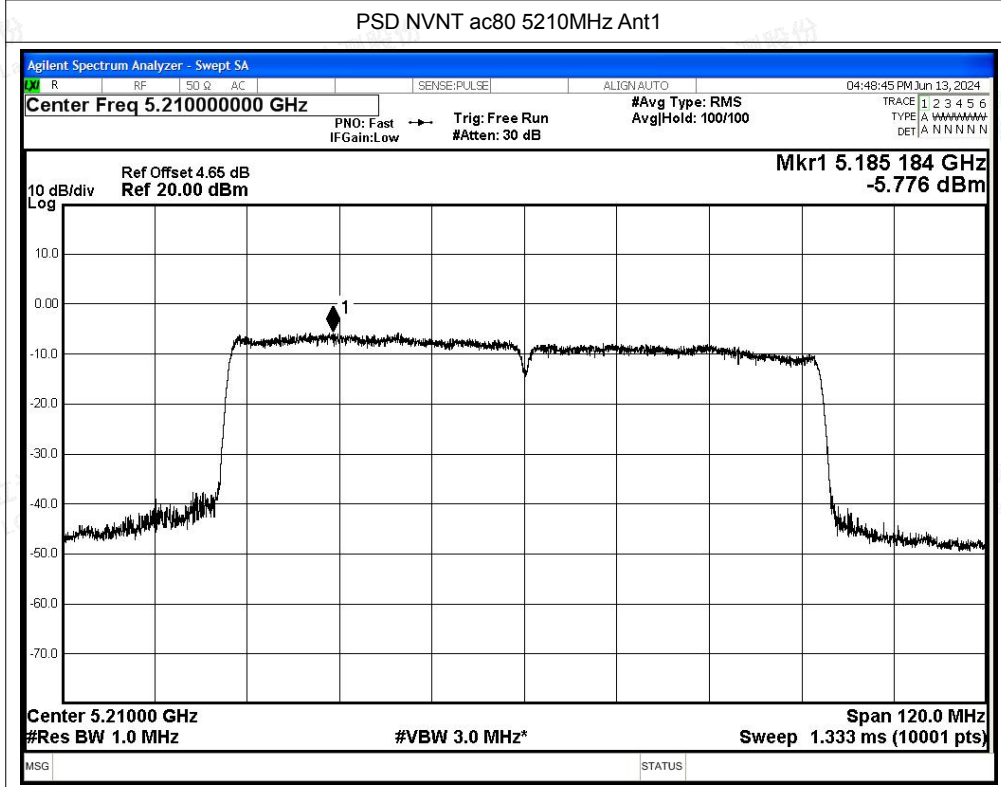
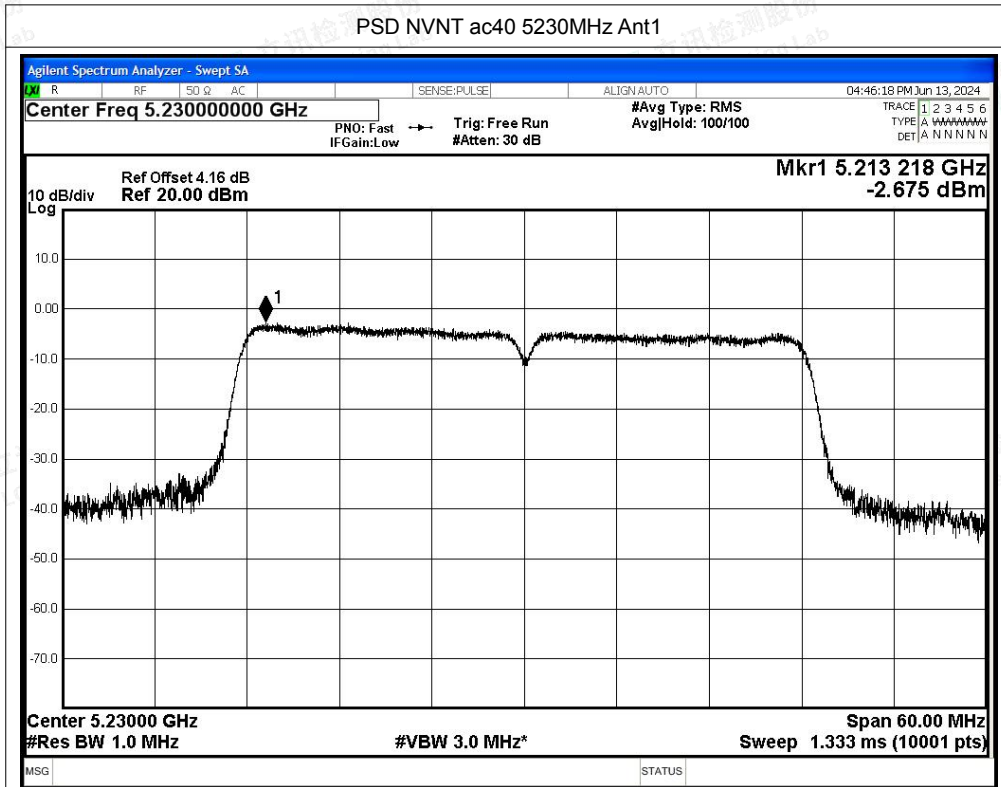


PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1







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	-49.5	2.75	-	48.48	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.97	2.75	0.24	40.25	Average	54	Pass
NVNT	a	5180	Ant1	5148.9	-41.64	2.75	-	56.34	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.2	-54.55	2.75	0.24	43.67	Average	54	Pass
NVNT	a	5180	Ant1	5150	-44.8	2.75	-	53.18	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-53.91	2.75	0.24	44.31	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.48	2.75	-	50.50	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.44	2.75	0.24	41.78	Average	54	Pass
NVNT	a	5240	Ant1	5446.56	-46	2.75	-	51.98	Peak	68.2	Pass
NVNT	a	5240	Ant1	5441.28	-56.36	2.75	0.24	41.86	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.37	2.75	-	49.61	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.62	2.75	0.24	40.60	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.44	2.75	-	48.54	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-56.89	2.75	0.28	41.37	Average	54	Pass
NVNT	n20	5180	Ant1	5148.9	-41.01	2.75	-	56.97	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-53.16	2.75	0.28	45.10	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-39.74	2.75	-	58.24	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-53.21	2.75	0.28	45.05	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.55	2.75	-	48.43	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.57	2.75	0.28	41.69	Average	54	Pass
NVNT	n20	5240	Ant1	5427.36	-46.59	2.75	-	51.39	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5369.28	-56.11	2.75	0.28	42.15	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.51	2.75	-	48.47	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.37	2.75	0.28	40.89	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.35	2.75	-	49.63	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.34	2.75	0.45	41.09	Average	54	Pass
NVNT	n40	5190	Ant1	5148.24	-36.22	2.75	-	61.76	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-47.79	2.75	0.45	50.64	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-36.37	2.75	-	61.61	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-47.79	2.75	0.45	50.64	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.4	2.75	-	49.58	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.11	2.75	0.45	41.32	Average	54	Pass
NVNT	n40	5230	Ant1	5450.82	-46	2.75	-	51.98	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5401.95	-56.32	2.75	0.45	42.11	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-47.76	2.75	-	50.22	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.36	2.75	0.45	41.07	Average	54	Pass





NVNT	ac20	5180	Ant1	4500	-49.33	2.75	-	48.65	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-57.37	2.75	0.28	40.89	Average	54	Pass
NVNT	ac20	5180	Ant1	5149.6	-42.53	2.75	-	55.45	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.9	-53.31	2.75	0.28	44.95	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-40.92	2.75	-	57.06	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-52.94	2.75	0.28	45.32	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49	2.75	-	48.98	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.11	2.75	0.28	41.15	Average	54	Pass
NVNT	ac20	5240	Ant1	5400.48	-45.91	2.75	-	52.07	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5352.48	-56.13	2.75	0.28	42.13	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.06	2.75	-	47.92	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.54	2.75	0.28	40.72	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.31	2.75	-	47.67	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.32	2.75	0.45	41.11	Average	54	Pass
NVNT	ac40	5190	Ant1	5146.78	-40.55	2.75	-	57.43	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-52.43	2.75	0.45	46.00	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-41.61	2.75	-	56.37	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-52.43	2.75	0.45	46.00	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.95	2.75	-	48.03	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.12	2.75	0.45	41.31	Average	54	Pass
NVNT	ac40	5230	Ant1	5379.54	-46.33	2.75	-	51.65	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5386.02	-56.21	2.75	0.45	42.22	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-48.58	2.75	-	49.40	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.34	2.75	0.45	41.09	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-49.51	2.75	-	48.47	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.38	2.75	0.65	42.25	Average	54	Pass
NVNT	ac80	5210	Ant1	5379.48	-46.42	2.75	-	51.56	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5375.52	-55.77	2.75	0.65	42.86	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.34	2.75	-	48.64	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.42	2.75	0.65	42.21	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.87	2.75	-	48.11	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.7	2.75	0.65	40.93	Average	54	Pass
NVNT	ac80	5210	Ant1	5149.38	-43.14	2.75	-	54.84	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-53.31	2.75	0.65	45.32	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-44.5	2.75	-	53.48	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-52.91	2.75	0.65	45.72	Average	54	Pass

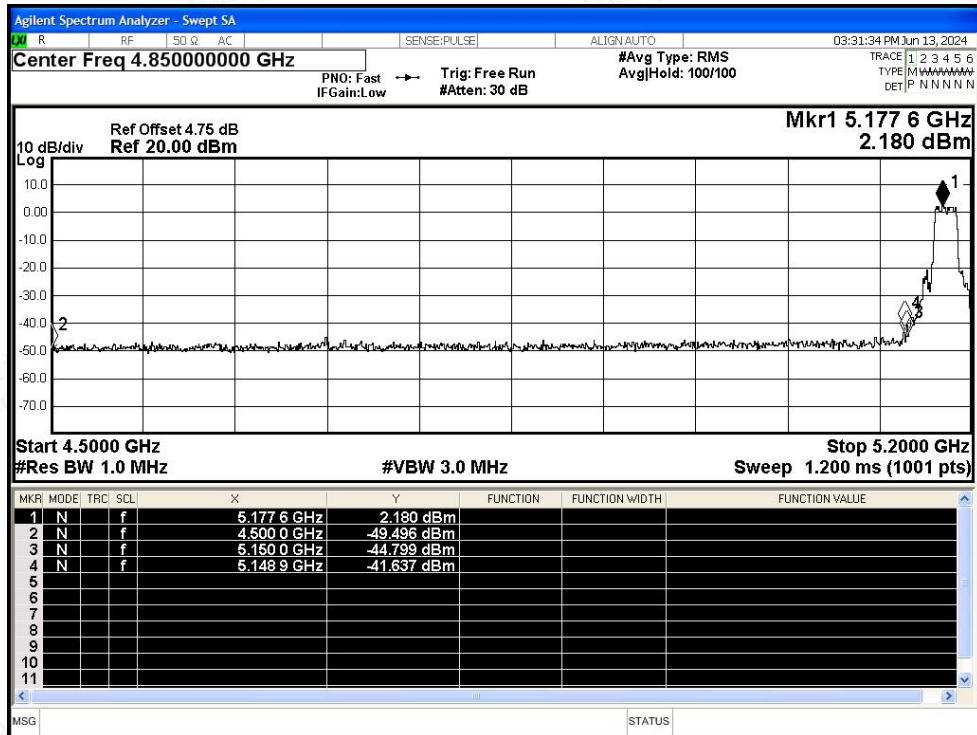


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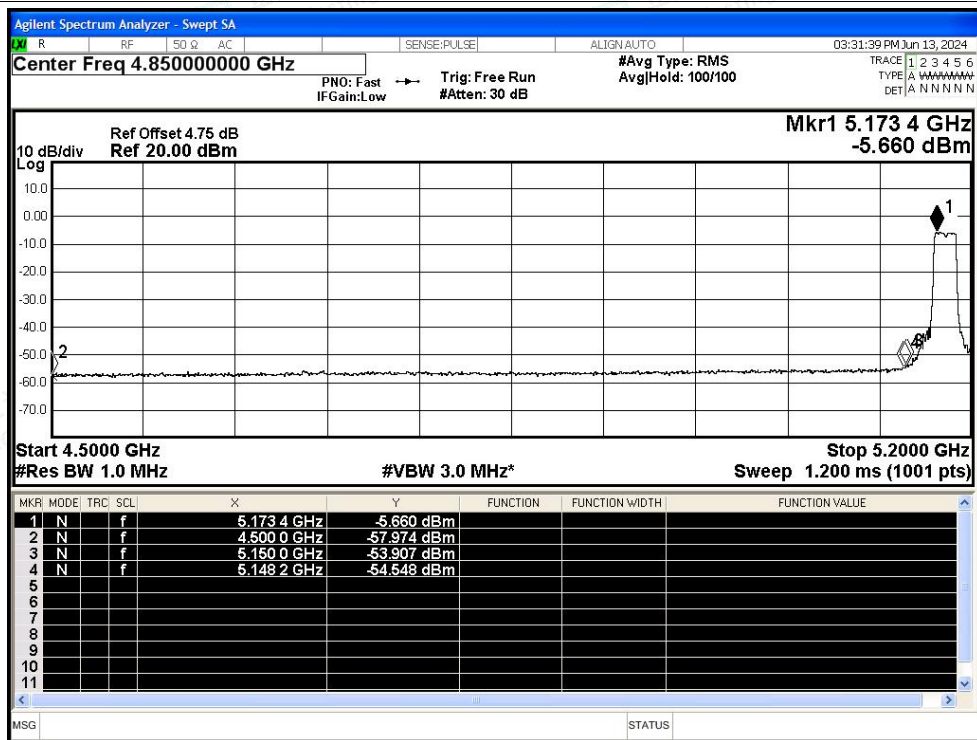


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

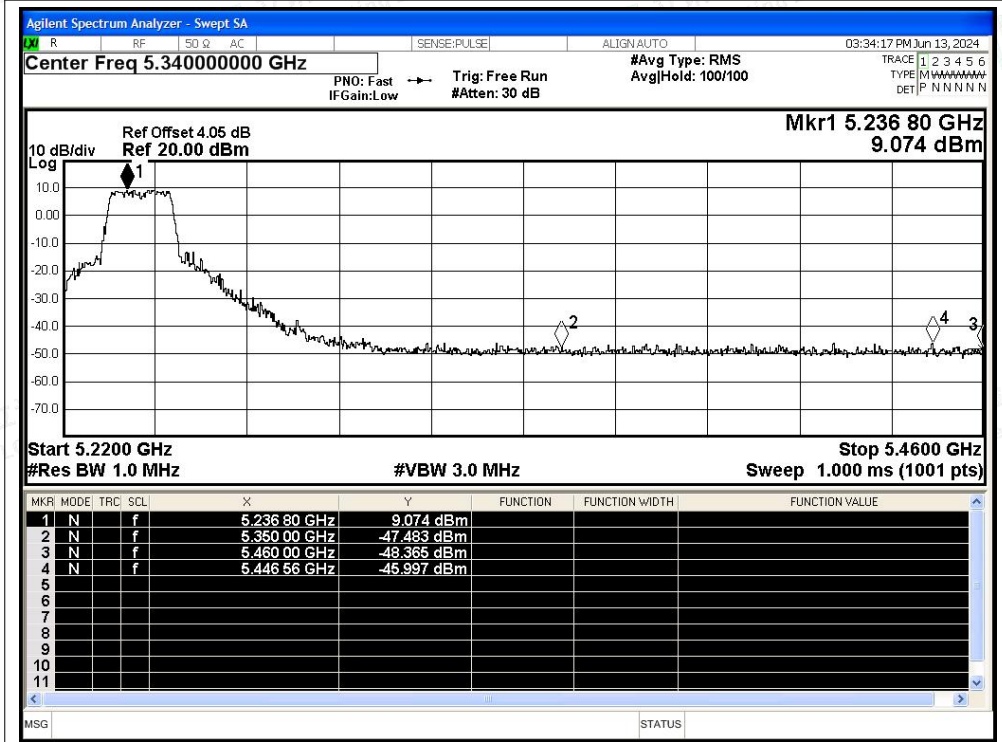


Restrict Band NVNT a 5180MHz Ant1 Average

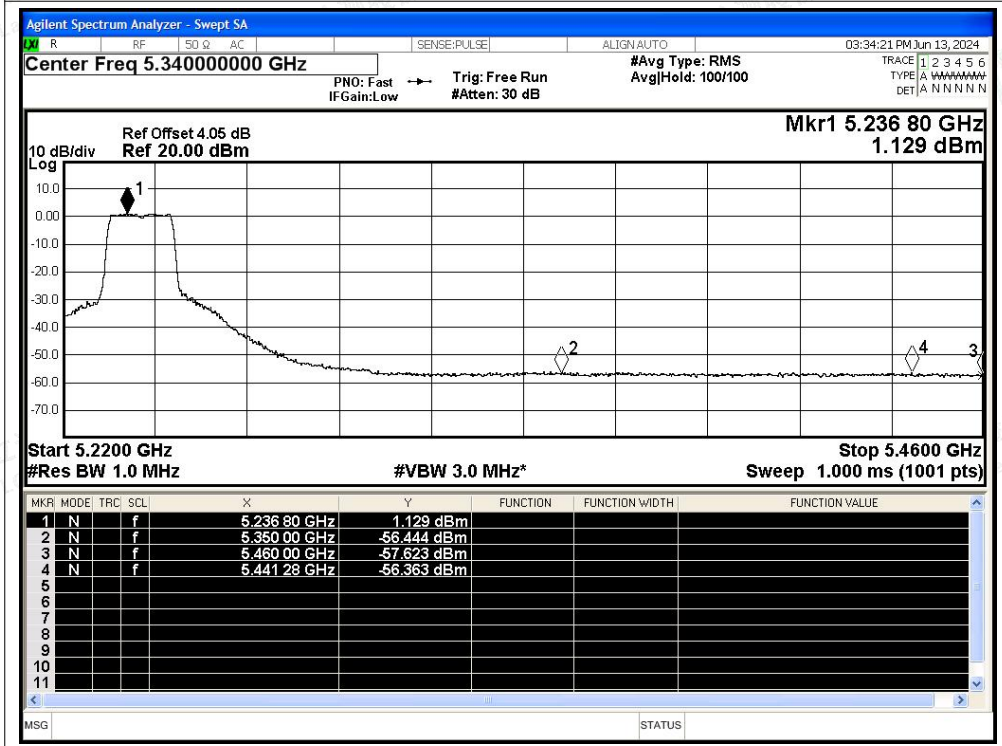




Restrict Band NVNT a 5240MHz Ant1 Peak

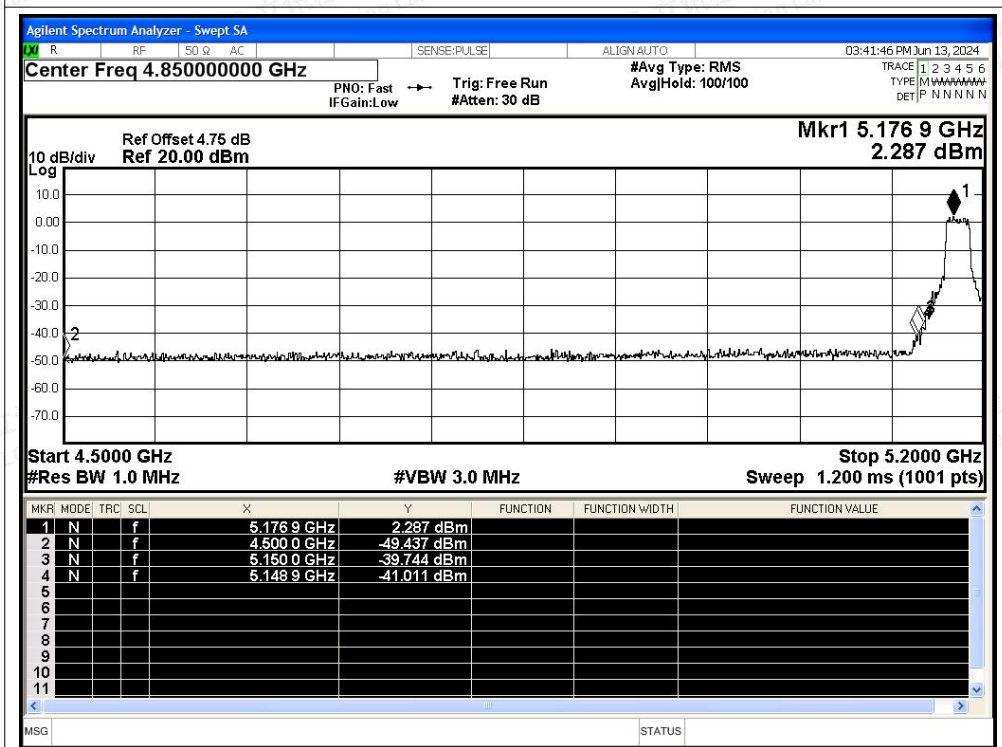


Restrict Band NVNT a 5240MHz Ant1 Average

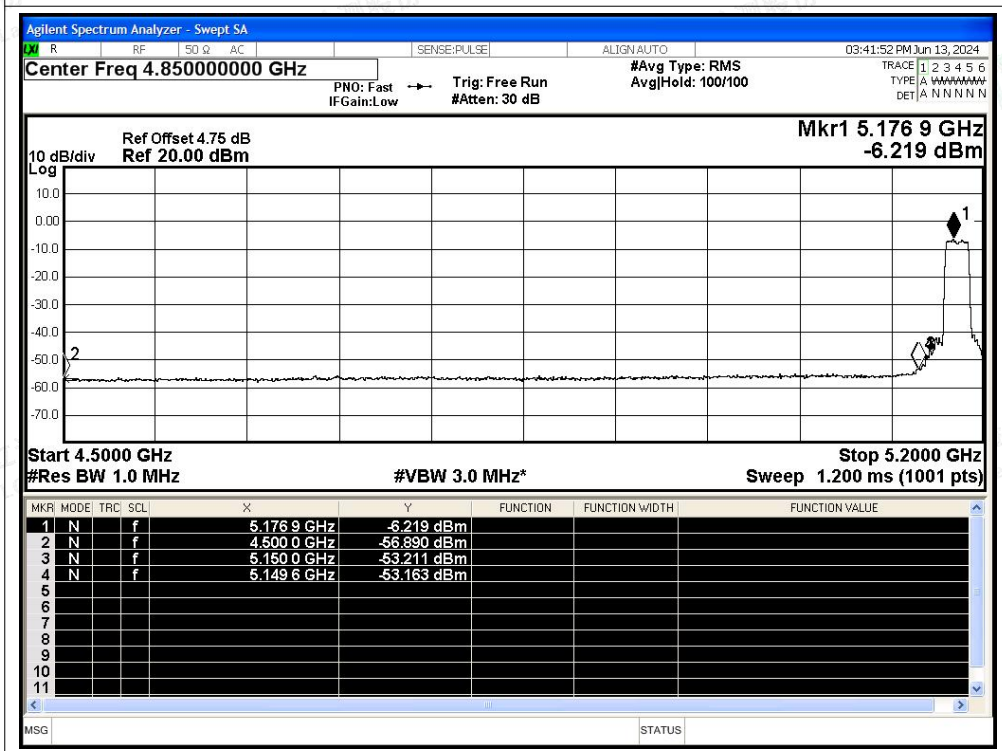




Restrict Band NVNT n20 5180MHz Ant1 Peak

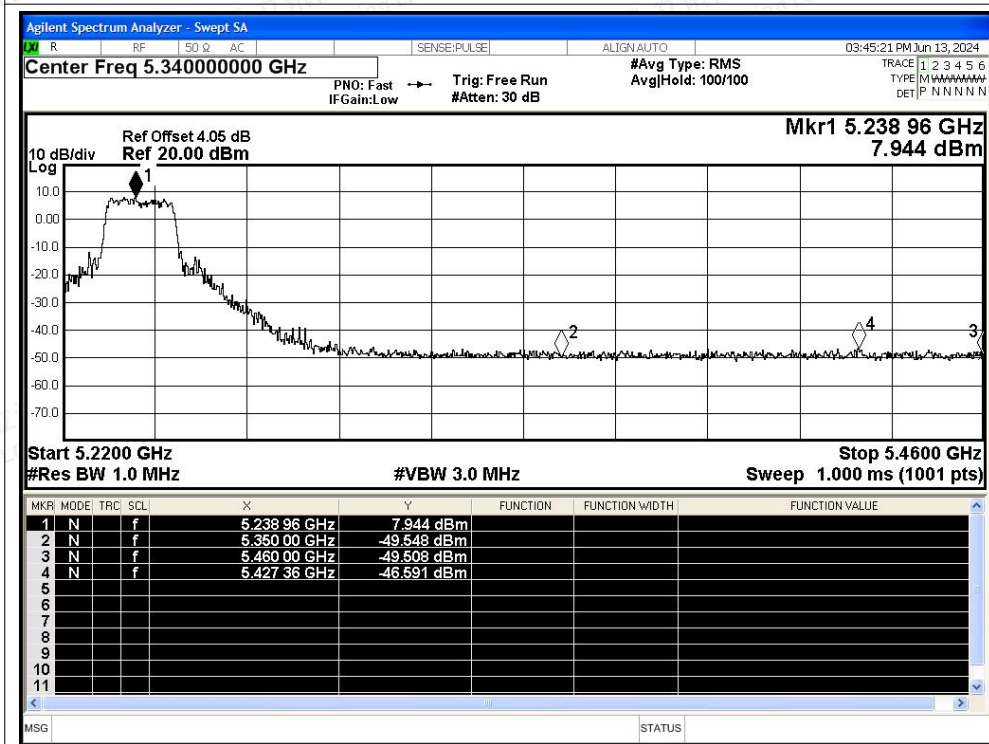


Restrict Band NVNT n20 5180MHz Ant1 Average

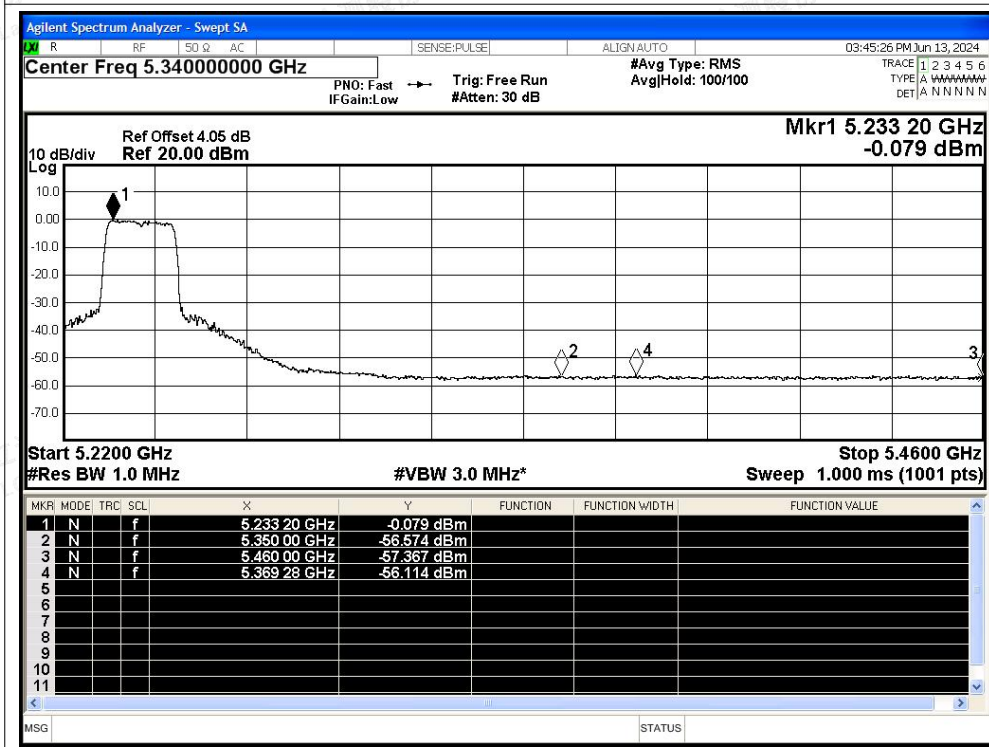




Restrict Band NVNT n20 5240MHz Ant1 Peak

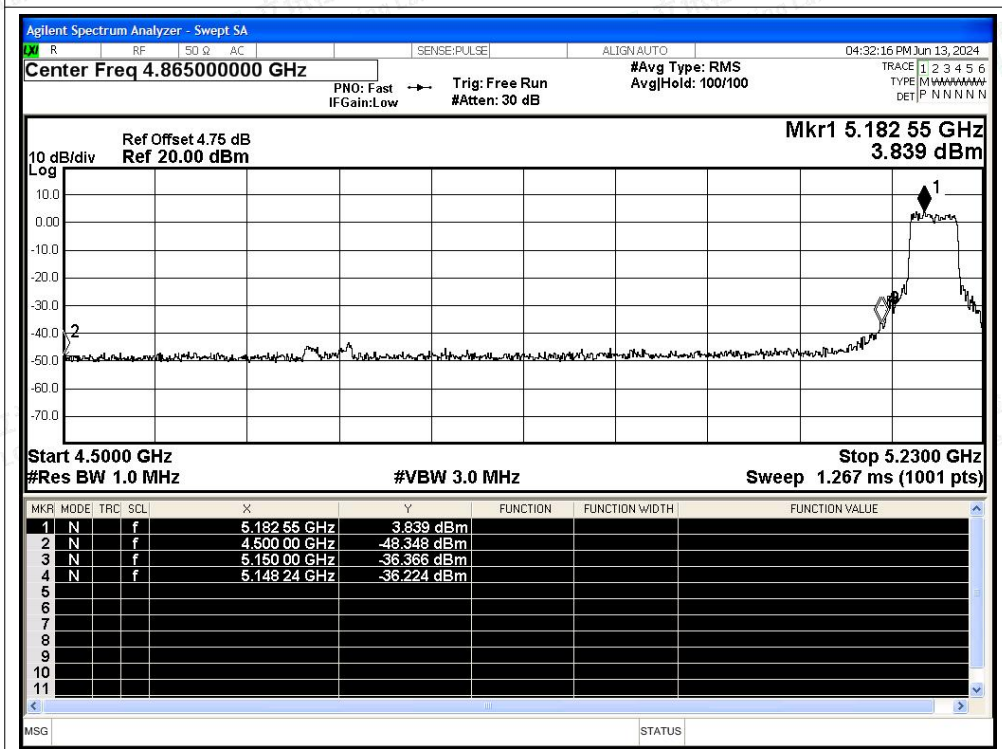


Restrict Band NVNT n20 5240MHz Ant1 Average

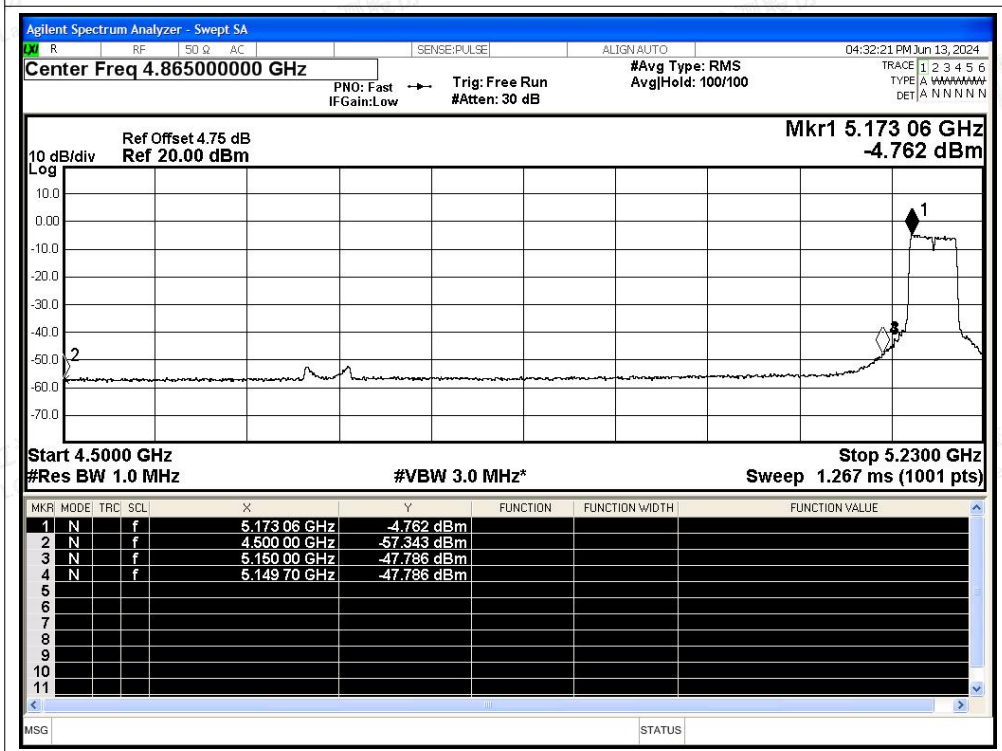




Restrict Band NVNT n40 5190MHz Ant1 Peak

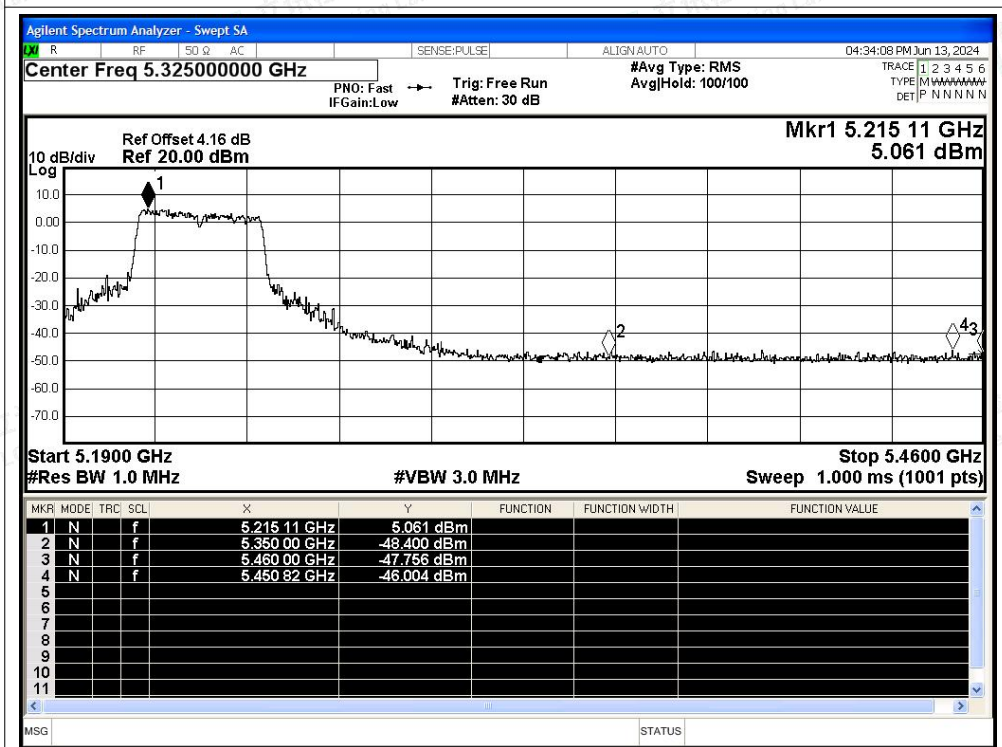


Restrict Band NVNT n40 5190MHz Ant1 Average





Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average

