



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Puya

Test Model: HPPAP39

Environmental Conditions

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





D.1 -26dB Bandwidth

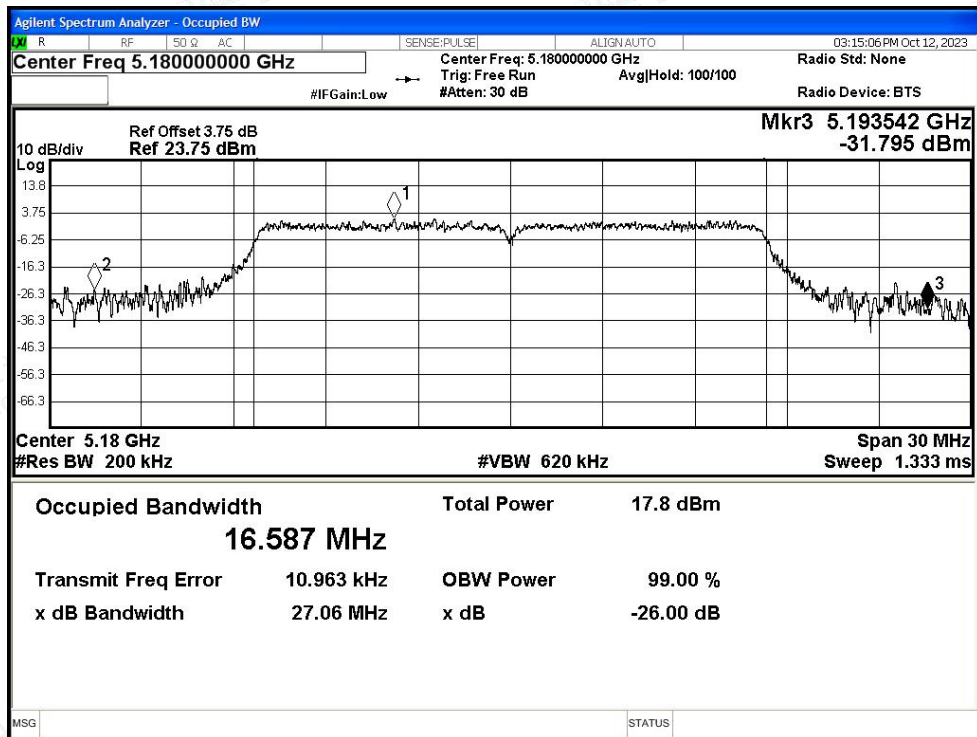
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	27.063	≥ 0.5	Pass
NVNT	a	5200	Ant1	25.7	≥ 0.5	Pass
NVNT	a	5240	Ant1	24.137	≥ 0.5	Pass
NVNT	n20	5180	Ant1	27.765	≥ 0.5	Pass
NVNT	n20	5200	Ant1	25.747	≥ 0.5	Pass
NVNT	n20	5240	Ant1	28.425	≥ 0.5	Pass
NVNT	n40	5190	Ant1	57.513	≥ 0.5	Pass
NVNT	n40	5230	Ant1	45.246	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	28.292	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	25.03	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	24.169	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	53.683	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	54.068	≥ 0.5	Pass



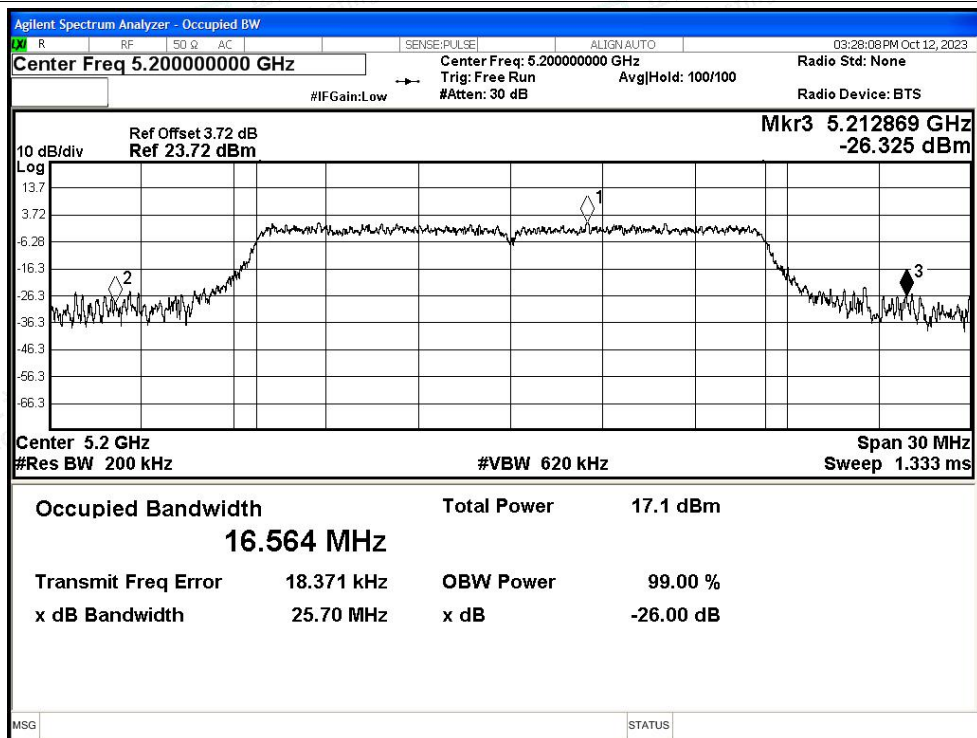


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

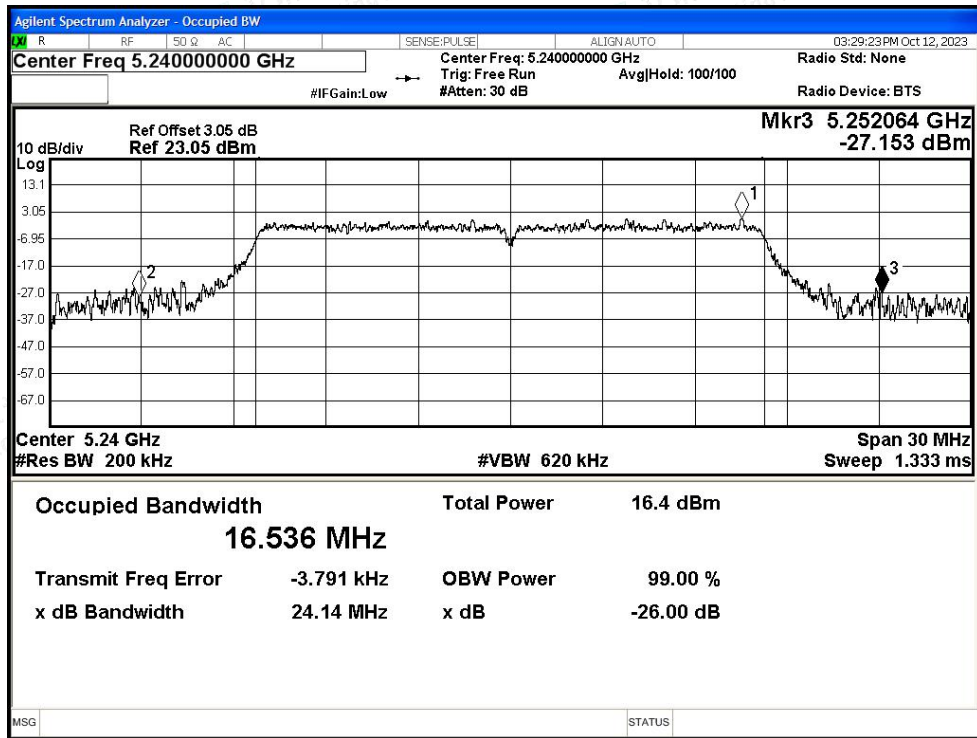


-26dB Bandwidth NVNT a 5200MHz Ant1

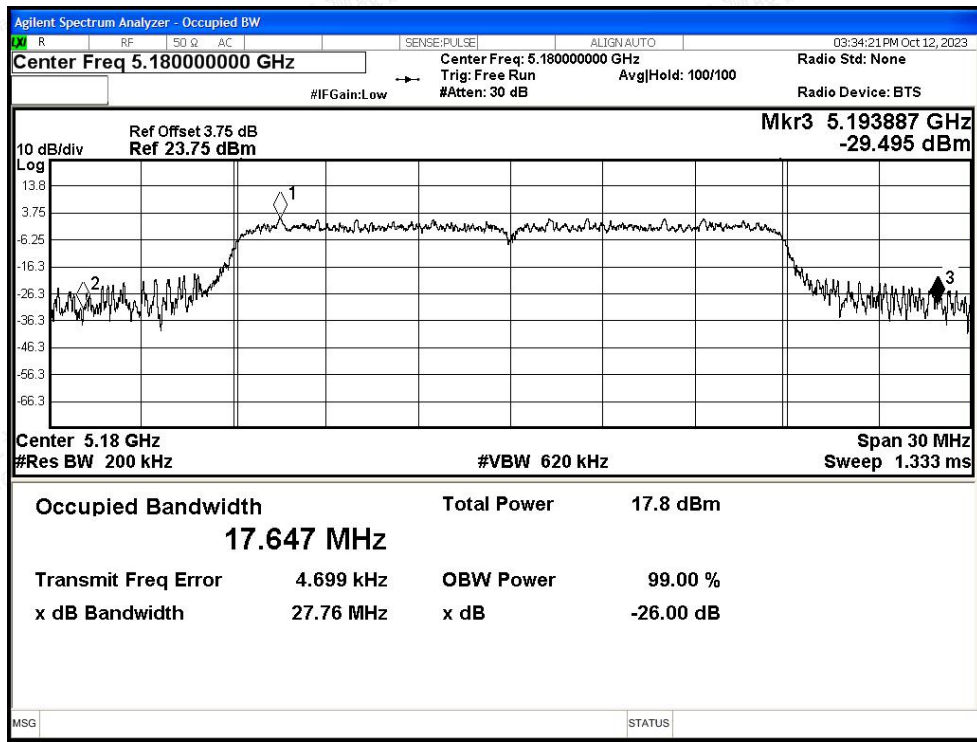




-26dB Bandwidth NVNT a 5240MHz Ant1

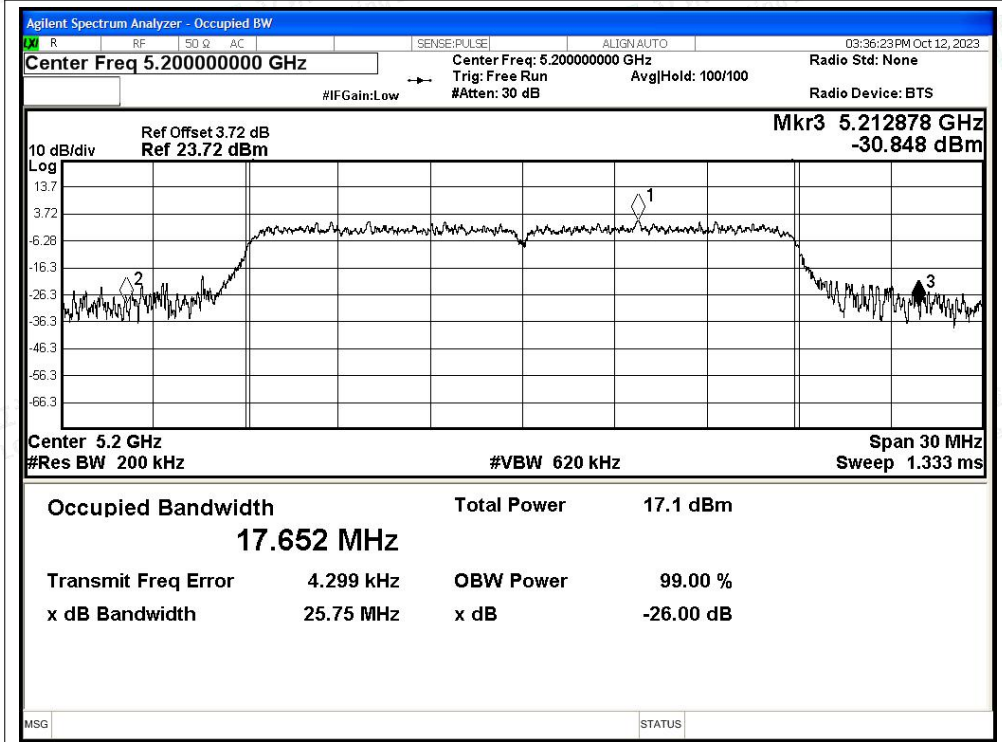


-26dB Bandwidth NVNT n20 5180MHz Ant1

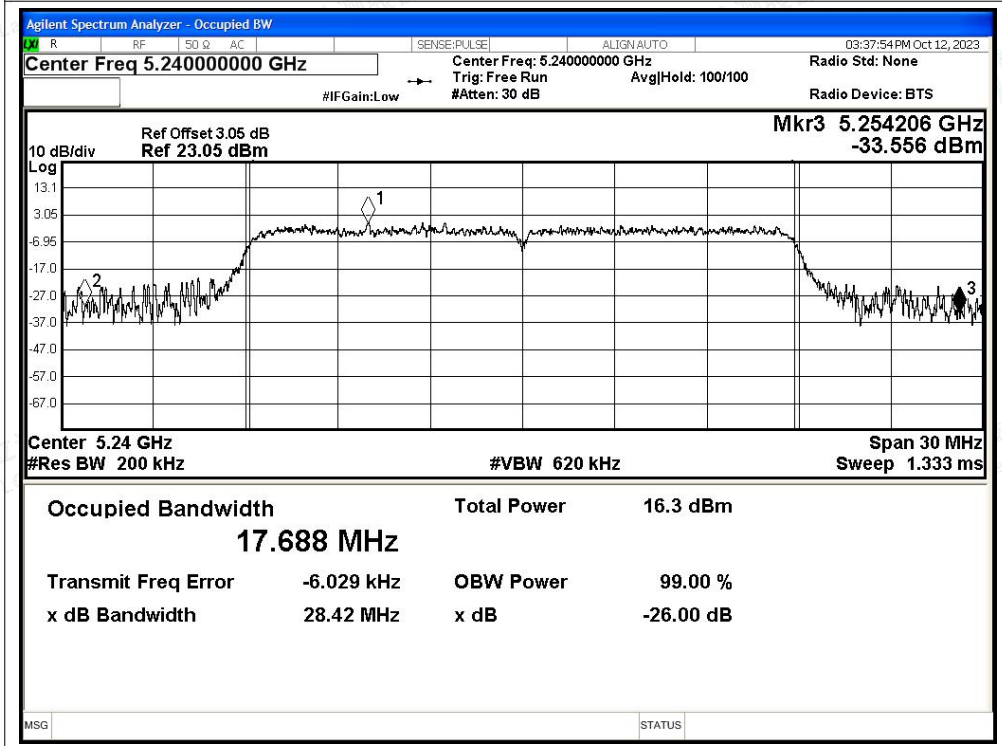




-26dB Bandwidth NVNT n20 5200MHz Ant1

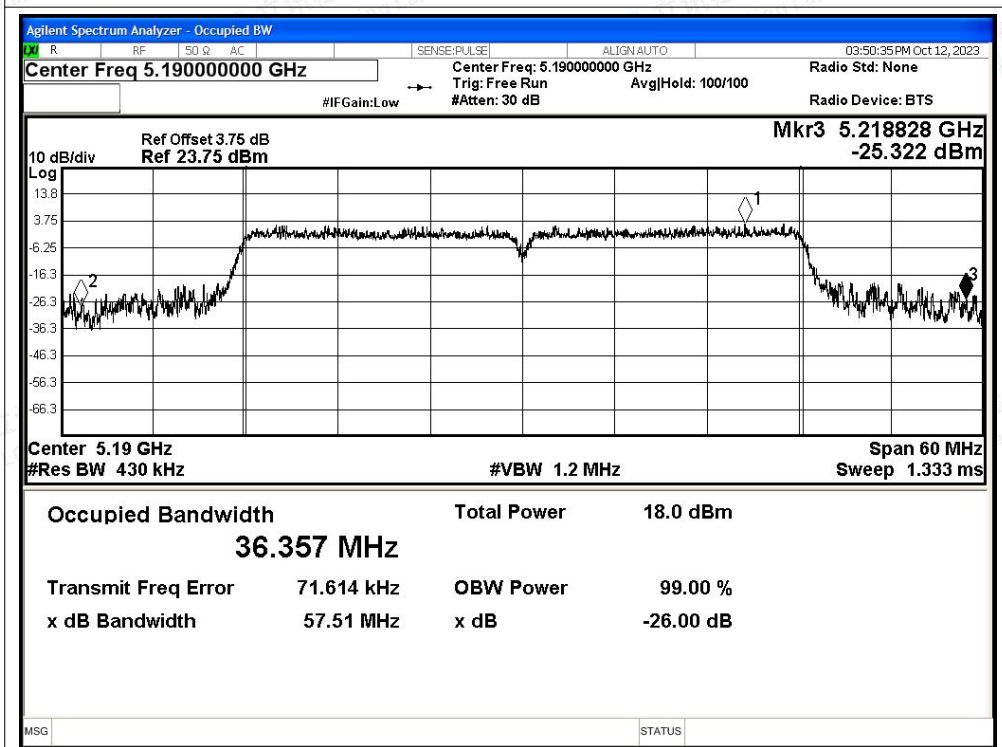


-26dB Bandwidth NVNT n20 5240MHz Ant1

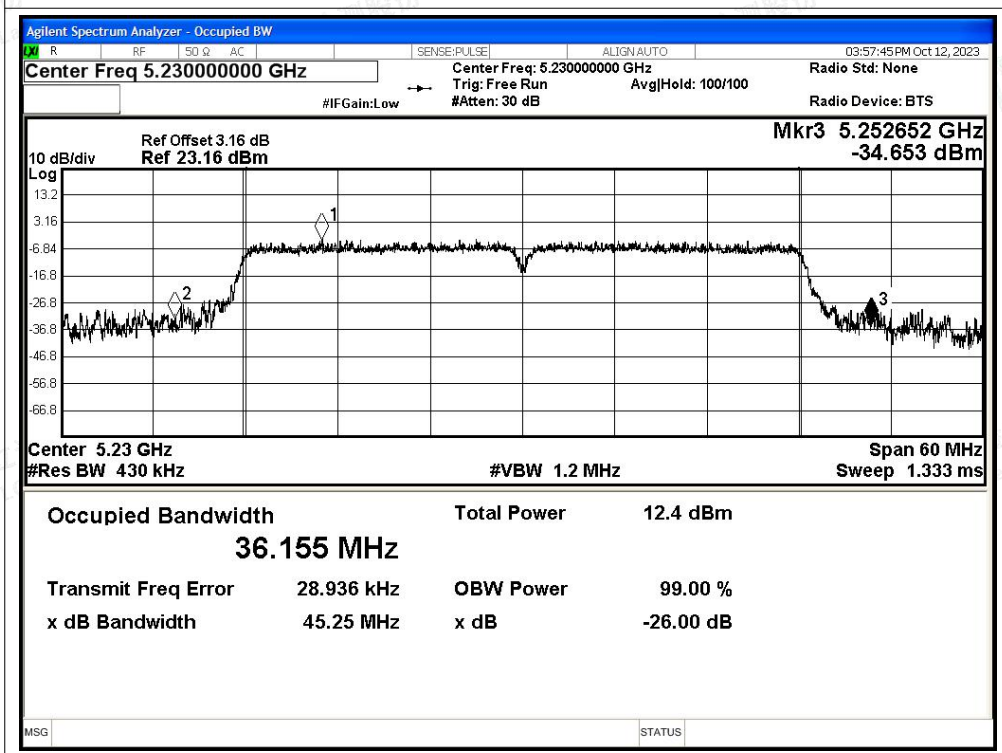




-26dB Bandwidth NVNT n40 5190MHz Ant1

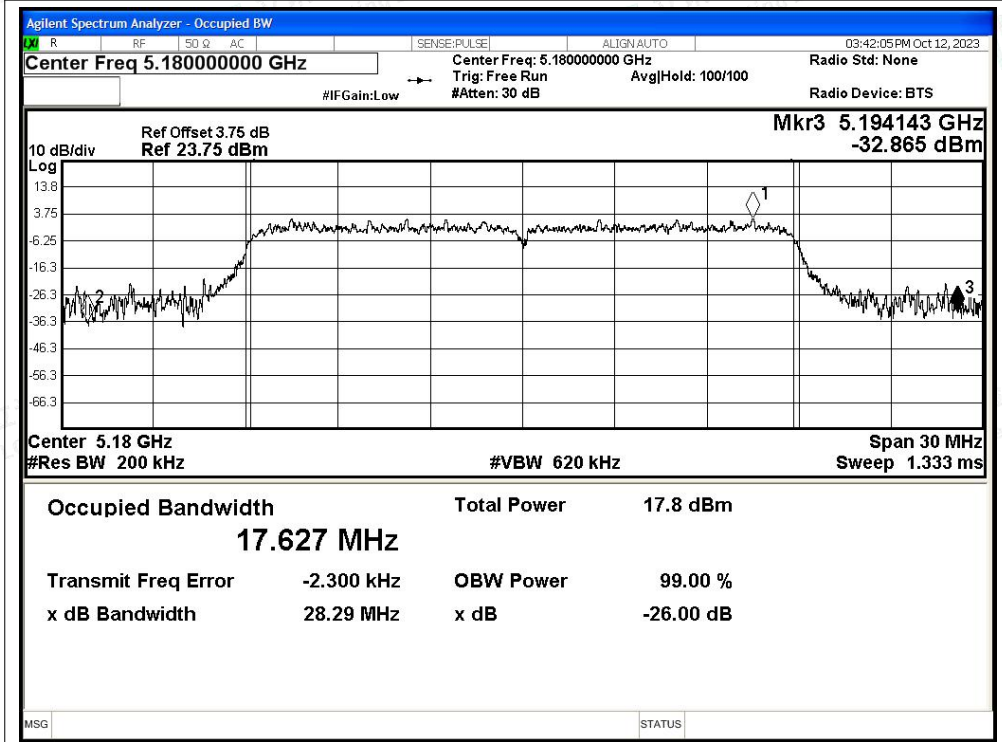


-26dB Bandwidth NVNT n40 5230MHz Ant1

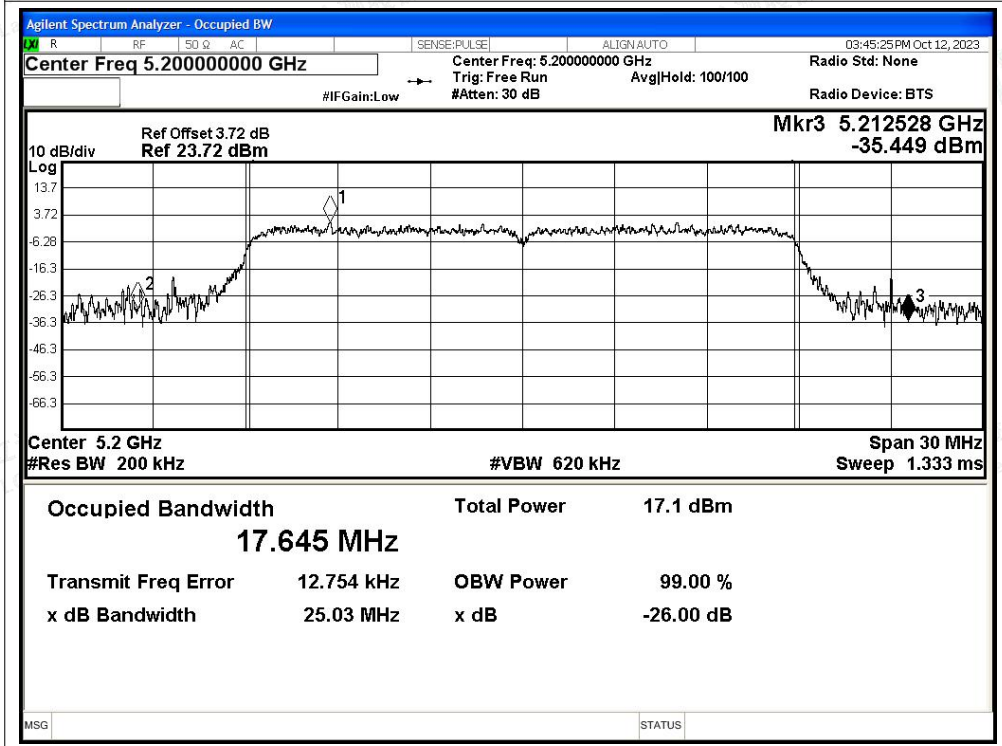




-26dB Bandwidth NVNT ac20 5180MHz Ant1

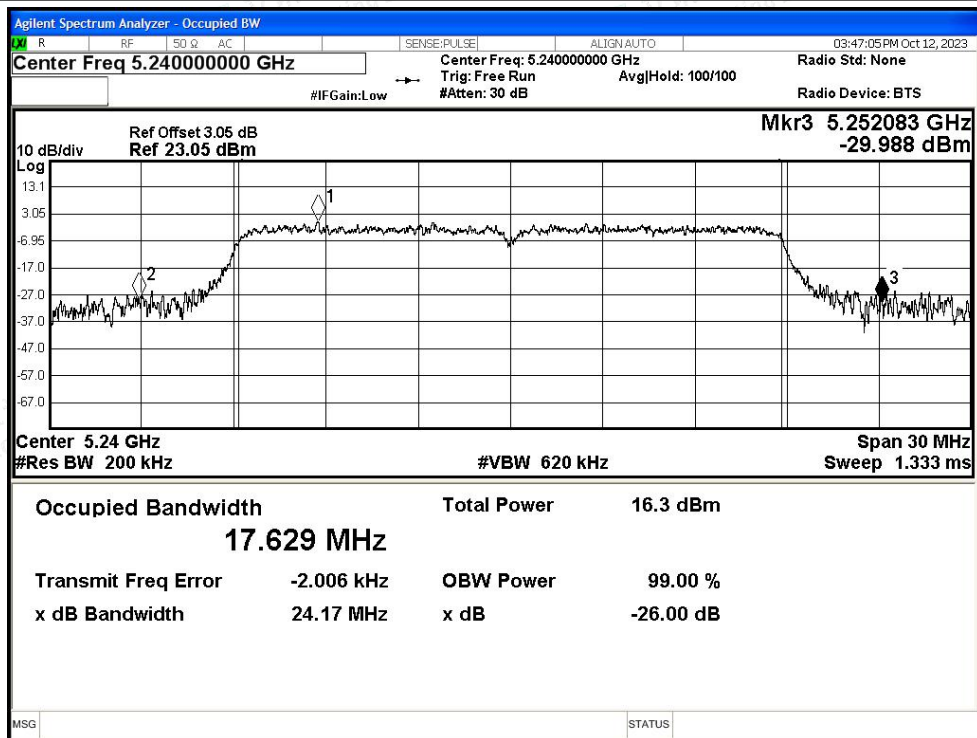


-26dB Bandwidth NVNT ac20 5200MHz Ant1

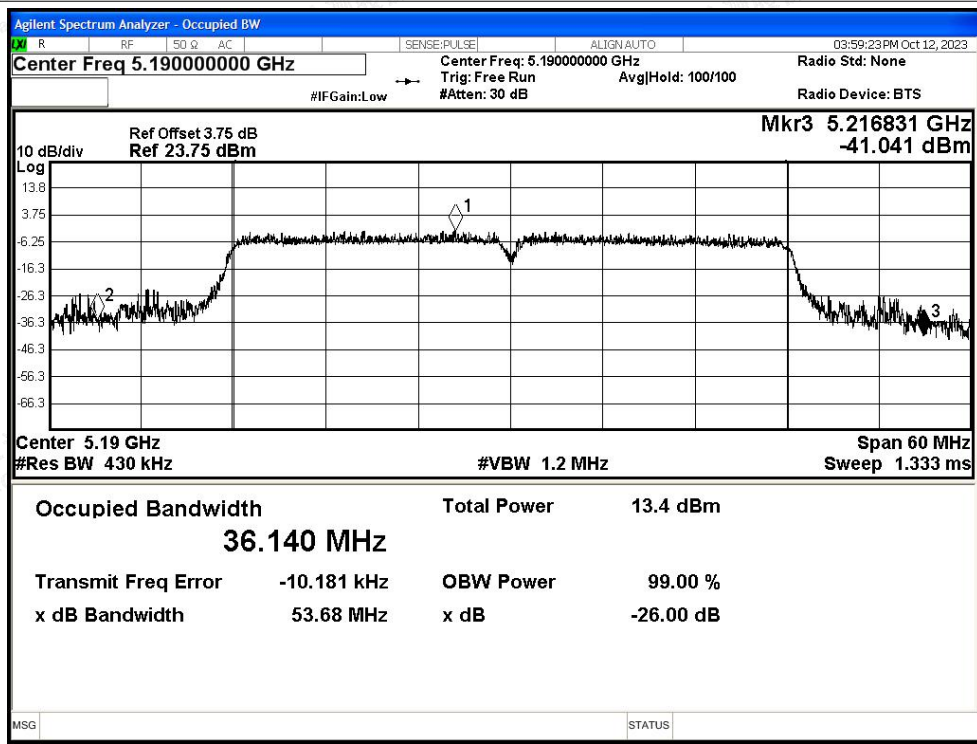




-26dB Bandwidth NVNT ac20 5240MHz Ant1

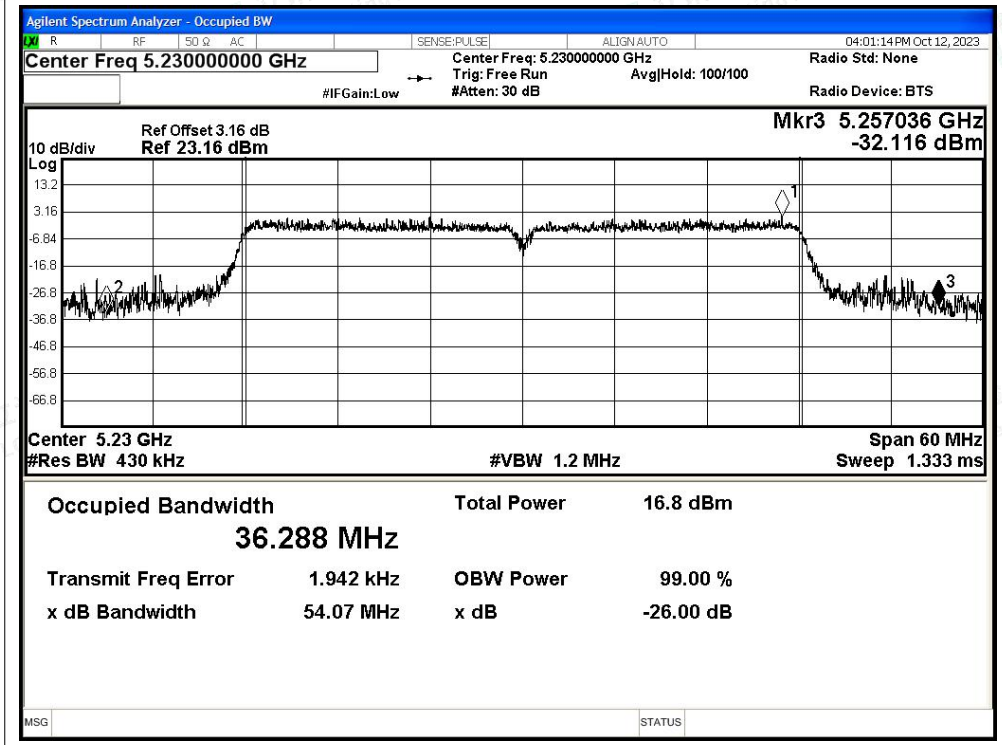


-26dB Bandwidth NVNT ac40 5190MHz Ant1





-26dB Bandwidth NVNT ac40 5230MHz 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	11.73	0.5	12.23	24	Pass
NVNT	a	5200	Ant1	11.21	0.5	11.71	24	Pass
NVNT	a	5240	Ant1	10.44	0.5	10.94	24	Pass
NVNT	n20	5180	Ant1	11.7	0.59	12.29	24	Pass
NVNT	n20	5200	Ant1	11.04	0.62	11.66	24	Pass
NVNT	n20	5240	Ant1	10.34	0.65	10.99	24	Pass
NVNT	n40	5190	Ant1	11.23	1.36	12.59	24	Pass
NVNT	n40	5230	Ant1	10.29	1.1	11.39	24	Pass
NVNT	ac20	5180	Ant1	11.67	0.58	12.25	24	Pass
NVNT	ac20	5200	Ant1	11.08	0.64	11.72	24	Pass
NVNT	ac20	5240	Ant1	10.3	0.59	10.89	24	Pass
NVNT	ac40	5190	Ant1	11	1.09	12.09	24	Pass
NVNT	ac40	5230	Ant1	10.22	1.54	11.76	24	Pass





D.3 Maximum Power Spectral Density Level

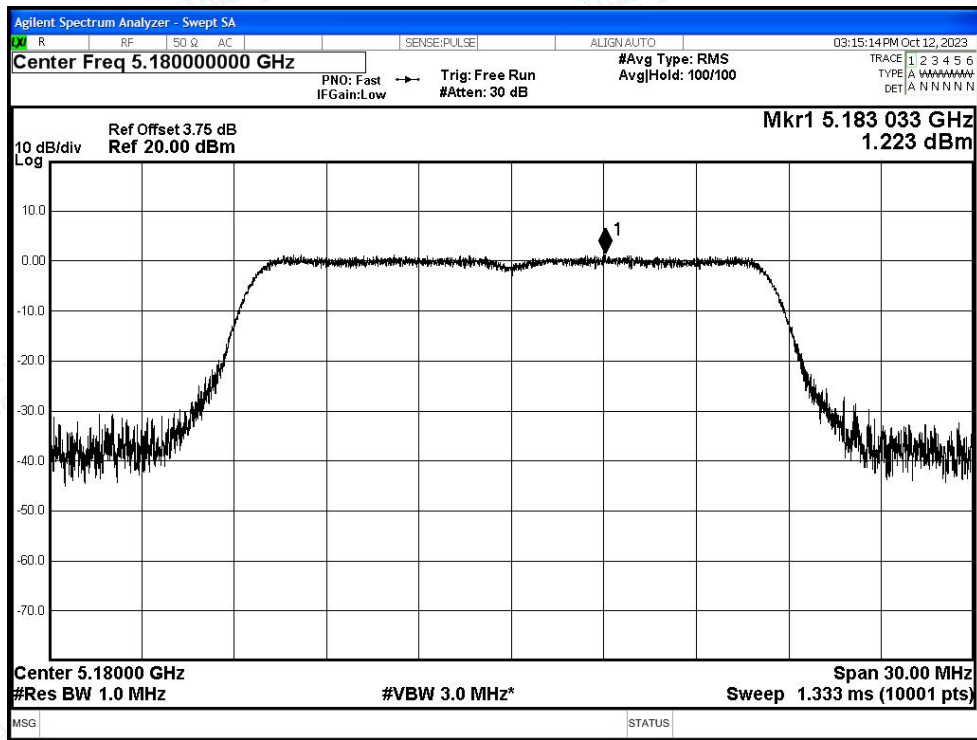
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.22	0.5	1.72	11	Pass
NVNT	a	5200	Ant1	0.75	0.5	1.25	11	Pass
NVNT	a	5240	Ant1	-0.14	0.5	0.36	11	Pass
NVNT	n20	5180	Ant1	0.89	0.59	1.48	11	Pass
NVNT	n20	5200	Ant1	0.63	0.62	1.25	11	Pass
NVNT	n20	5240	Ant1	-0.54	0.65	0.11	11	Pass
NVNT	n40	5190	Ant1	-2.13	1.36	-0.77	11	Pass
NVNT	n40	5230	Ant1	-3.39	1.1	-2.29	11	Pass
NVNT	ac20	5180	Ant1	0.95	0.58	1.53	11	Pass
NVNT	ac20	5200	Ant1	0.46	0.64	1.1	11	Pass
NVNT	ac20	5240	Ant1	-0.27	0.59	0.32	11	Pass
NVNT	ac40	5190	Ant1	-2.75	1.09	-1.66	11	Pass
NVNT	ac40	5230	Ant1	-3.6	1.54	-2.06	11	Pass



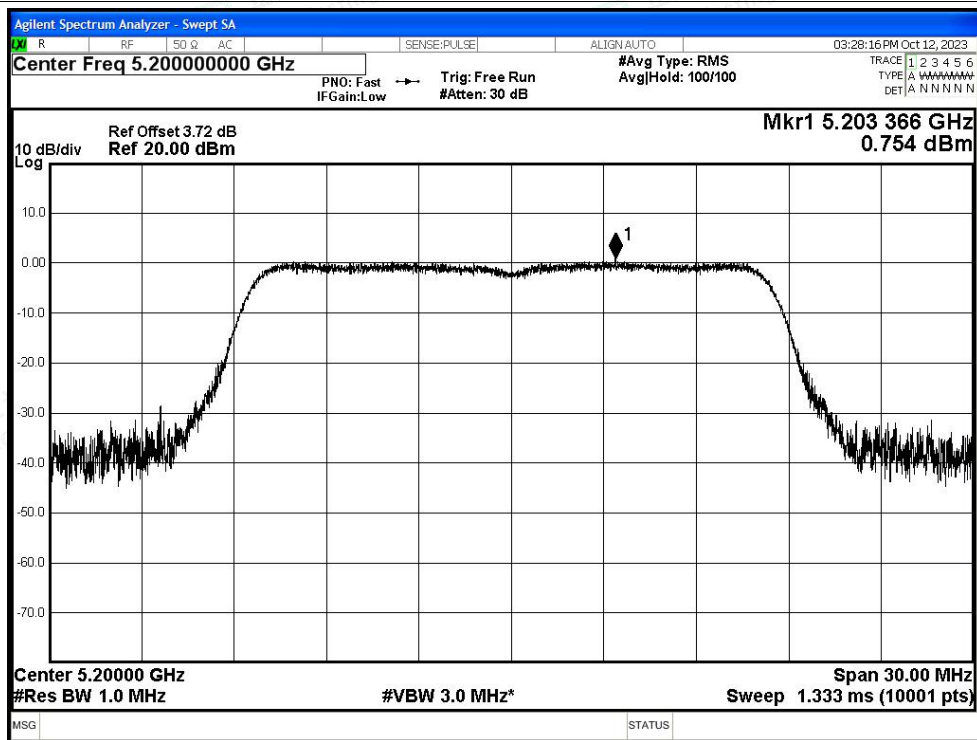


Test Graphs

PSD NVNT a 5180MHz Ant1

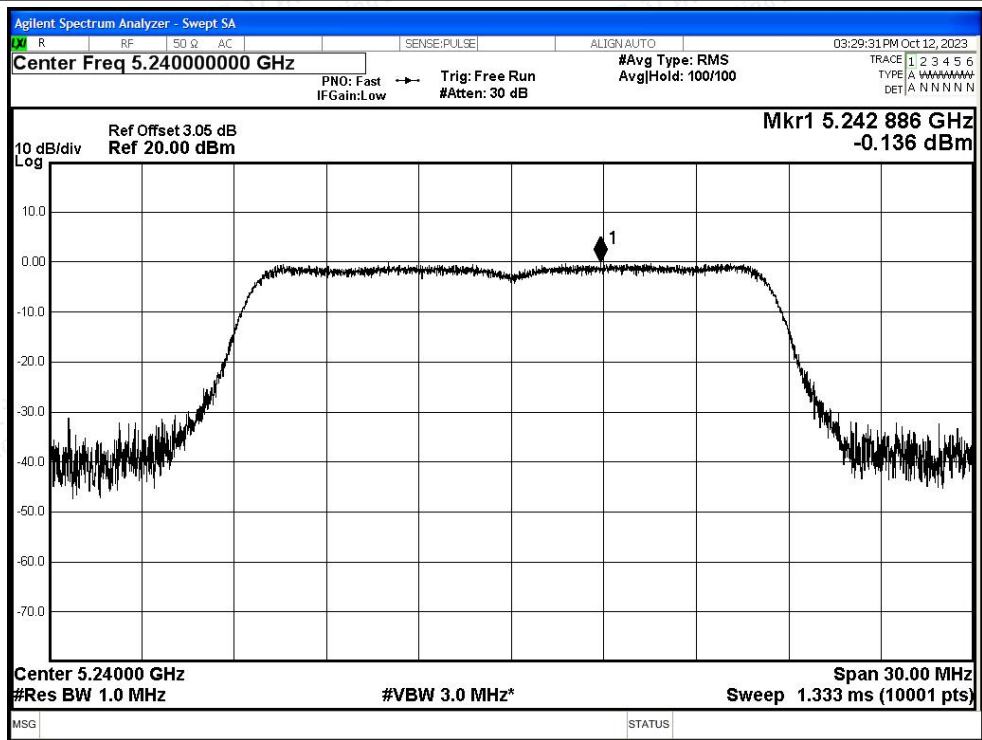


PSD NVNT a 5200MHz Ant1

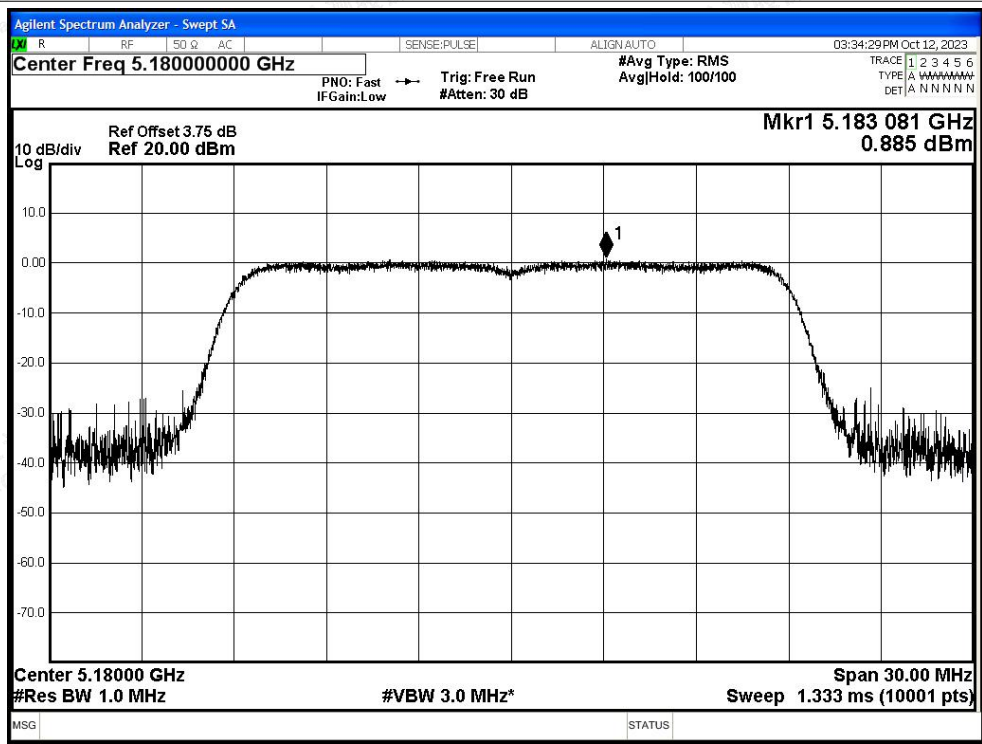


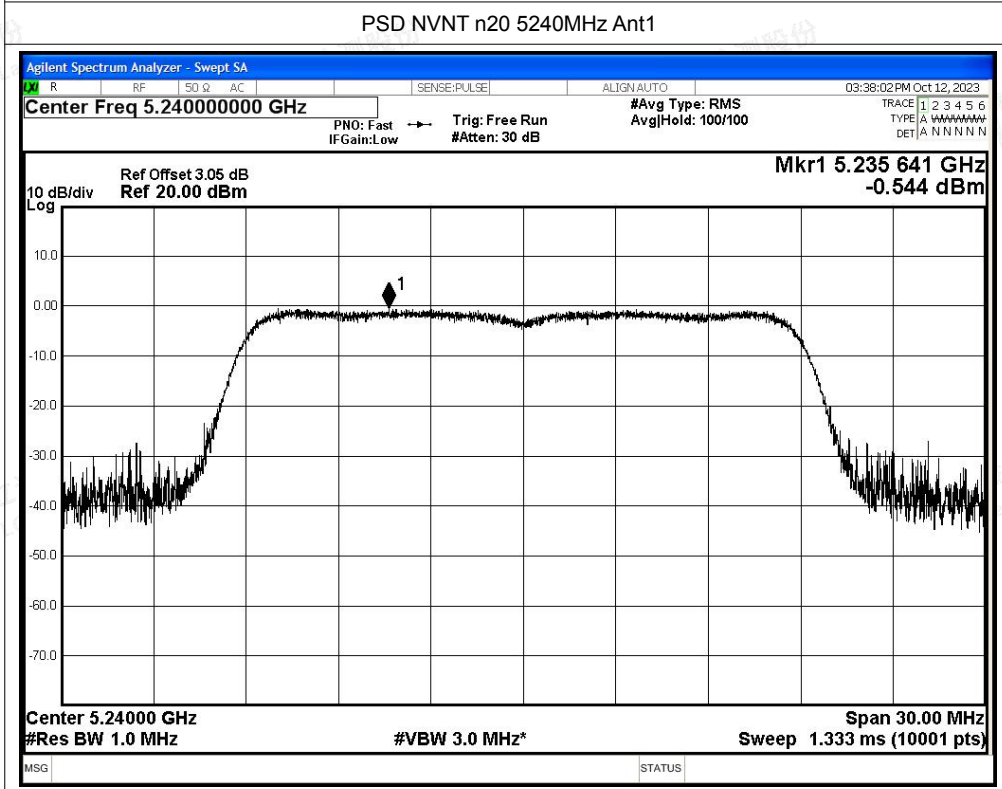
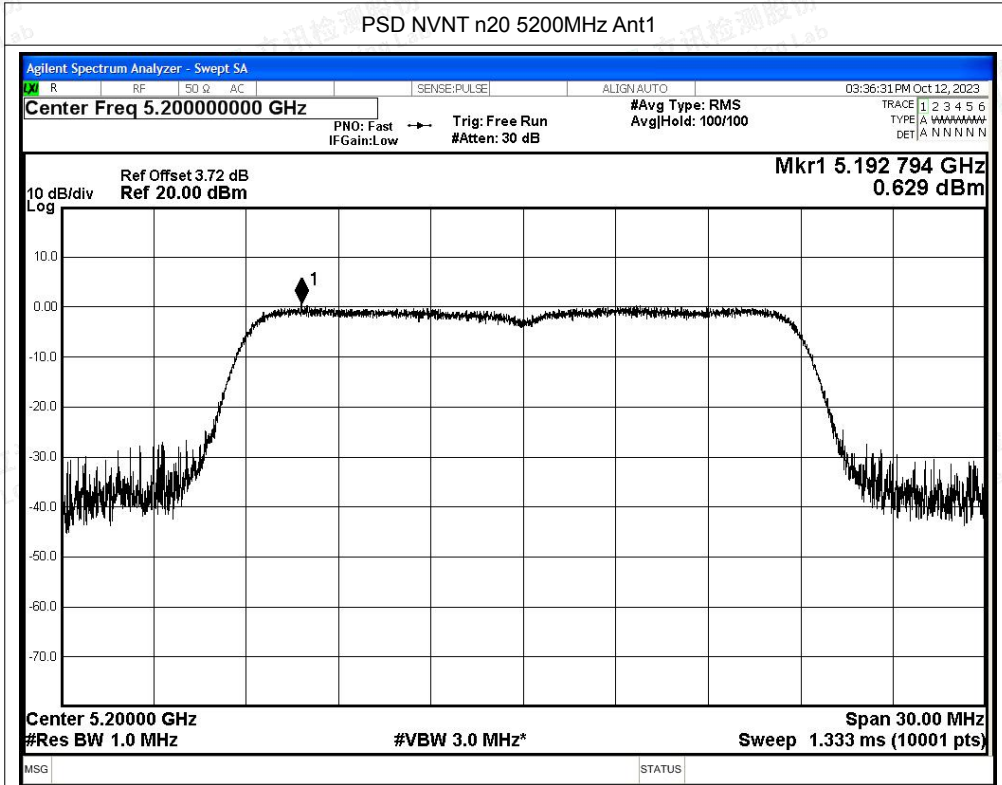


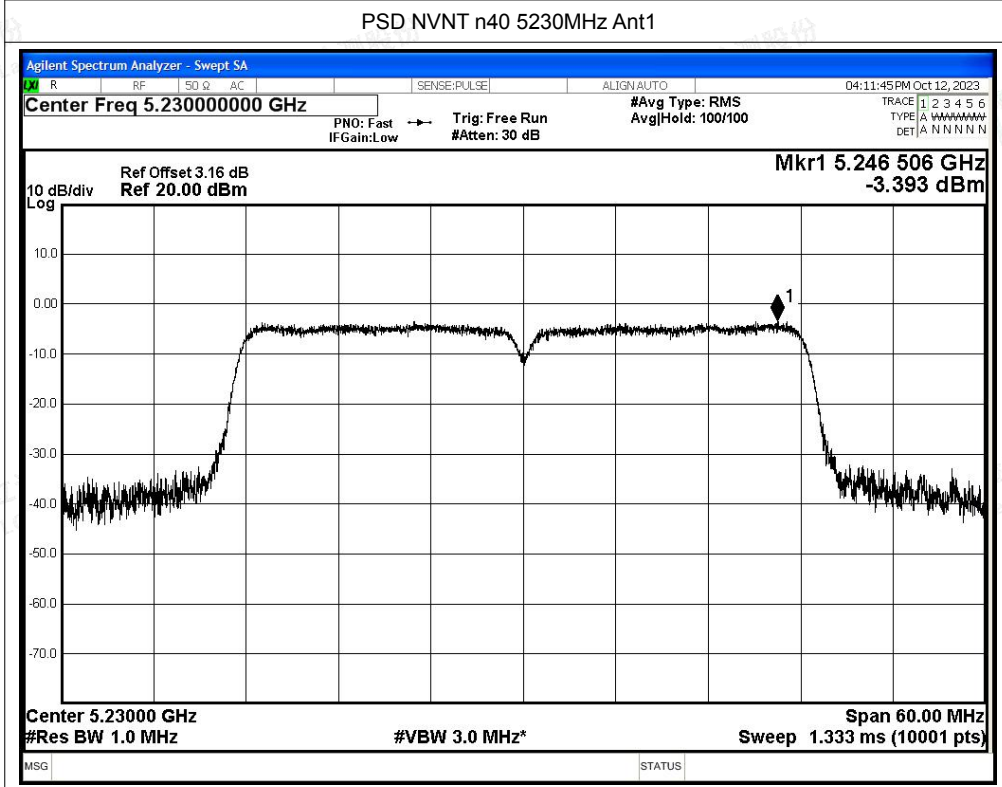
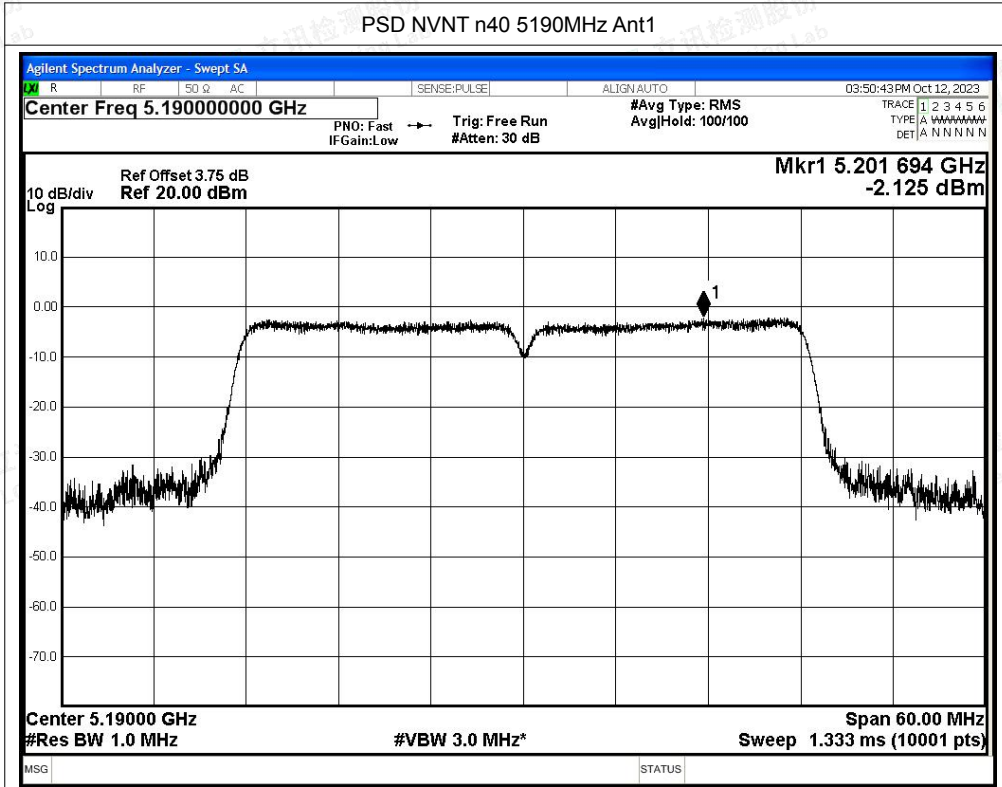
PSD NVNT a 5240MHz Ant1

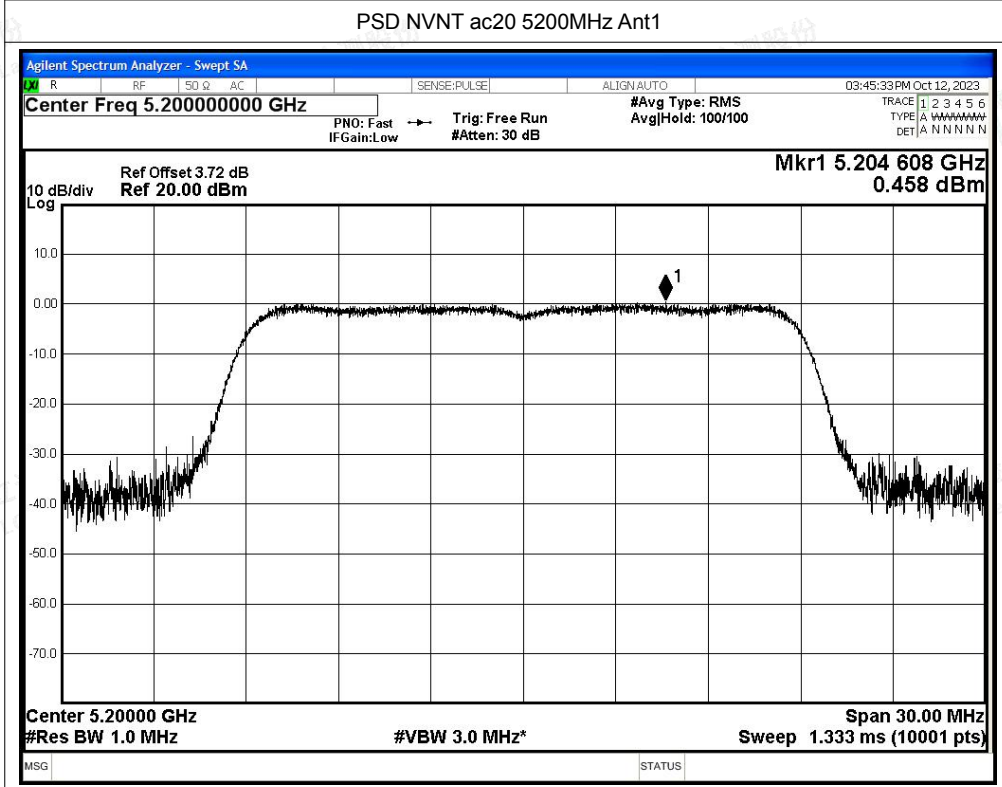
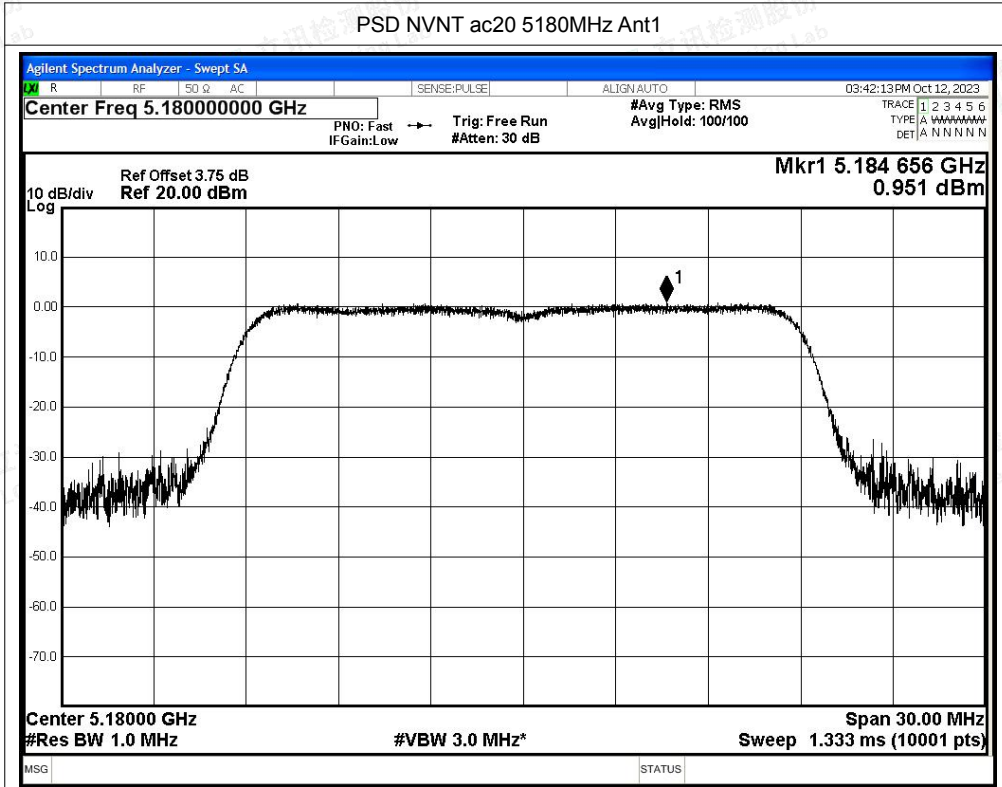


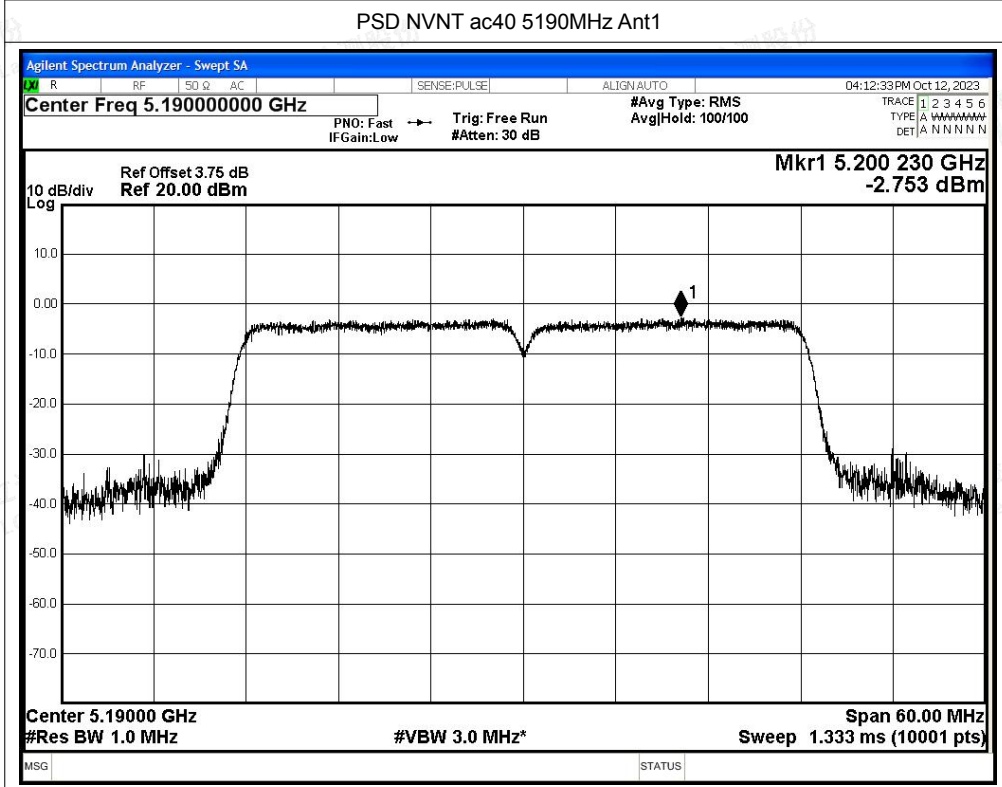
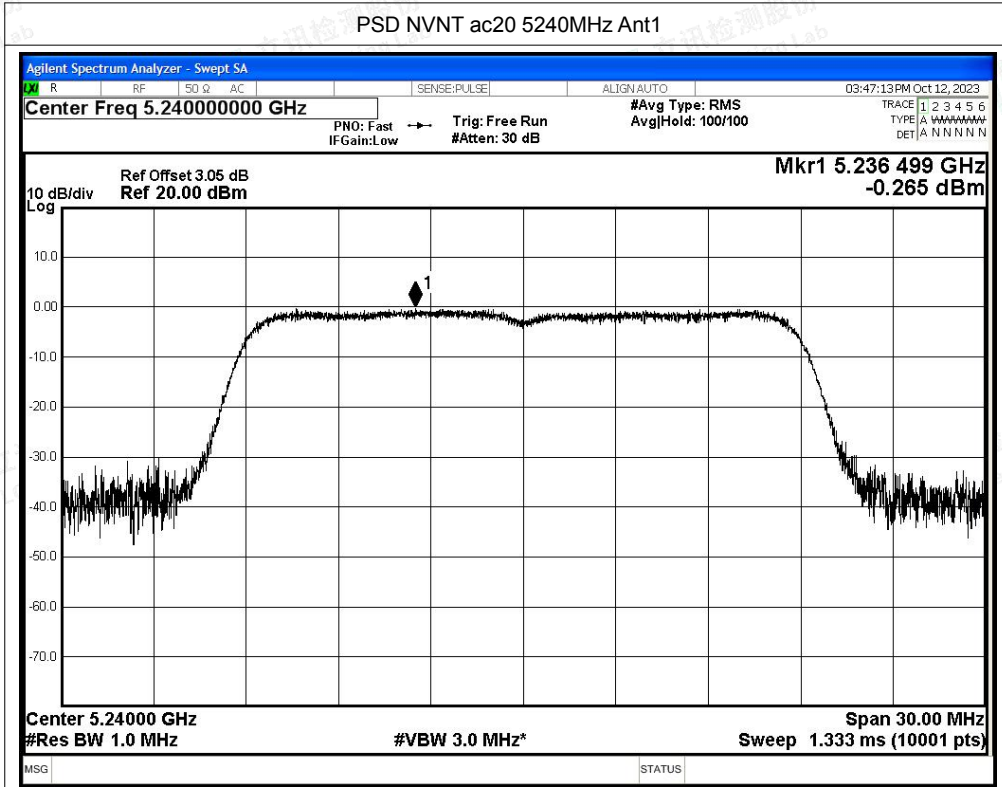
PSD NVNT n20 5180MHz Ant1

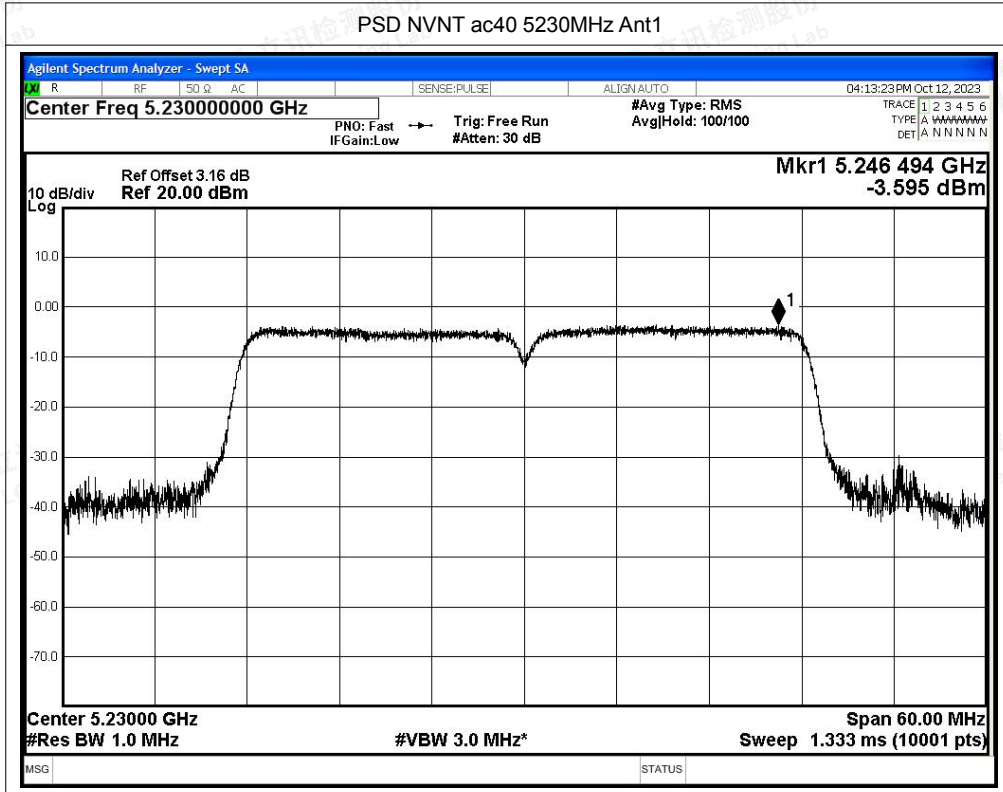














D.4 Restrict Band

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	-49.65	2	47.58	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.14	2	40.09	Average	54	Pass
NVNT	a	5180	Ant1	5148.9	-38.58	2	58.65	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-47.48	2	49.75	Average	54	Pass
NVNT	a	5180	Ant1	5150	-39.24	2	57.99	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-46.92	2	50.31	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.87	2	46.36	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.04	2	40.19	Average	54	Pass
NVNT	a	5240	Ant1	5395.2	-47.1	2	50.13	Peak	68.2	Pass
NVNT	a	5240	Ant1	5365.68	-56.64	2	40.59	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.5	2	46.73	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.18	2	40.05	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.52	2	47.71	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-56.99	2	40.24	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-31.63	2	65.6	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-46.41	2	50.82	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-40.39	2	56.84	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.74	2	50.49	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.66	2	47.57	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.9	2	40.33	Average	54	Pass
NVNT	n20	5240	Ant1	5423.28	-46.57	2	50.66	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5383.92	-56.75	2	40.48	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.81	2	48.42	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.12	2	40.11	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.44	2	46.79	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-56.87	2	40.36	Average	54	Pass
NVNT	n40	5190	Ant1	5146.78	-37.01	2	60.22	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-46.05	2	51.18	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-39.83	2	57.4	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-46.05	2	51.18	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.48	2	48.75	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.88	2	40.35	Average	54	Pass
NVNT	n40	5230	Ant1	5361.72	-46.74	2	50.49	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5428.95	-56.34	2	40.89	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.92	2	47.31	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.79	2	40.44	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-49.12	2	48.11	Peak	68.2	Pass





NVNT	ac20	5180	Ant1	4500	-57.16	2	40.07	Average	54	Pass
NVNT	ac20	5180	Ant1	5146.8	-33.27	2	63.96	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-45.78	2	51.45	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-34.81	2	62.42	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-45.98	2	51.25	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.65	2	48.58	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.98	2	40.25	Average	54	Pass
NVNT	ac20	5240	Ant1	5435.52	-46.57	2	50.66	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5420.64	-56.7	2	40.53	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.95	2	47.28	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.02	2	40.21	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.73	2	48.5	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-56.98	2	40.25	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-37.58	2	59.65	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-45.78	2	51.45	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-37.58	2	59.65	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-45.78	2	51.45	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.19	2	48.04	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.61	2	40.62	Average	54	Pass
NVNT	ac40	5230	Ant1	5372.79	-47.37	2	49.86	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5369.82	-56.32	2	40.91	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-50.33	2	46.9	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.77	2	40.46	Average	54	Pass

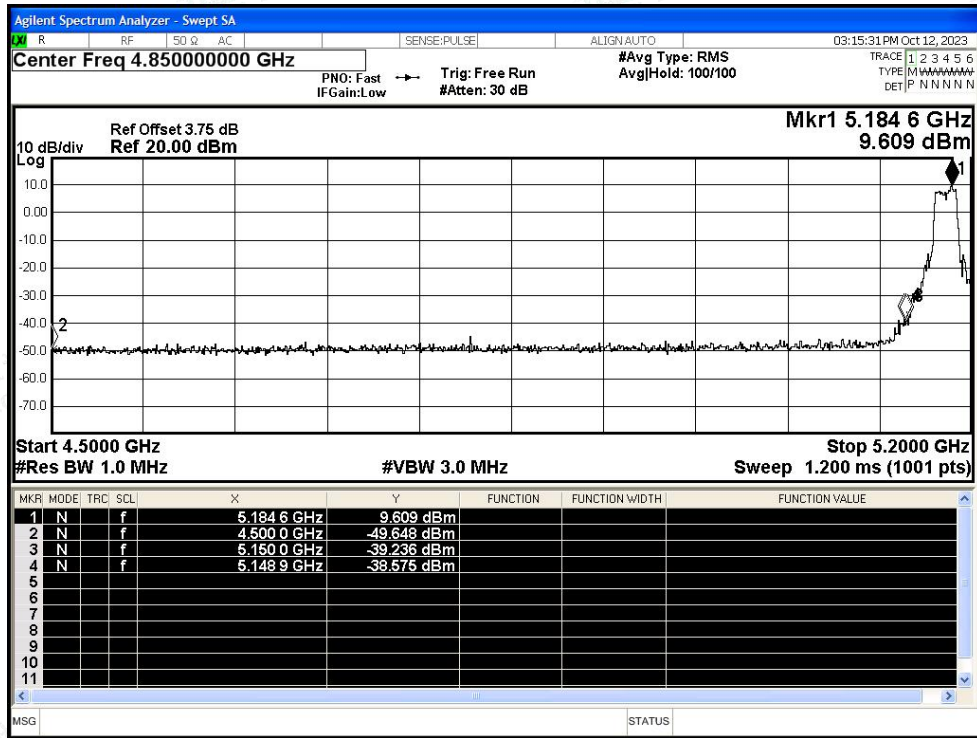


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

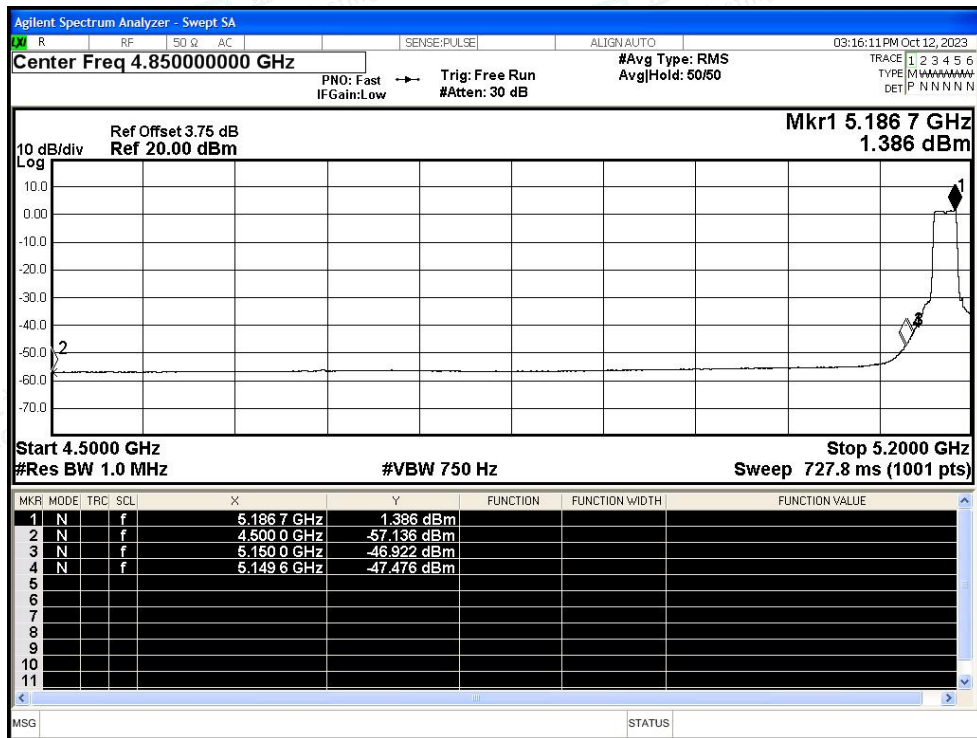


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

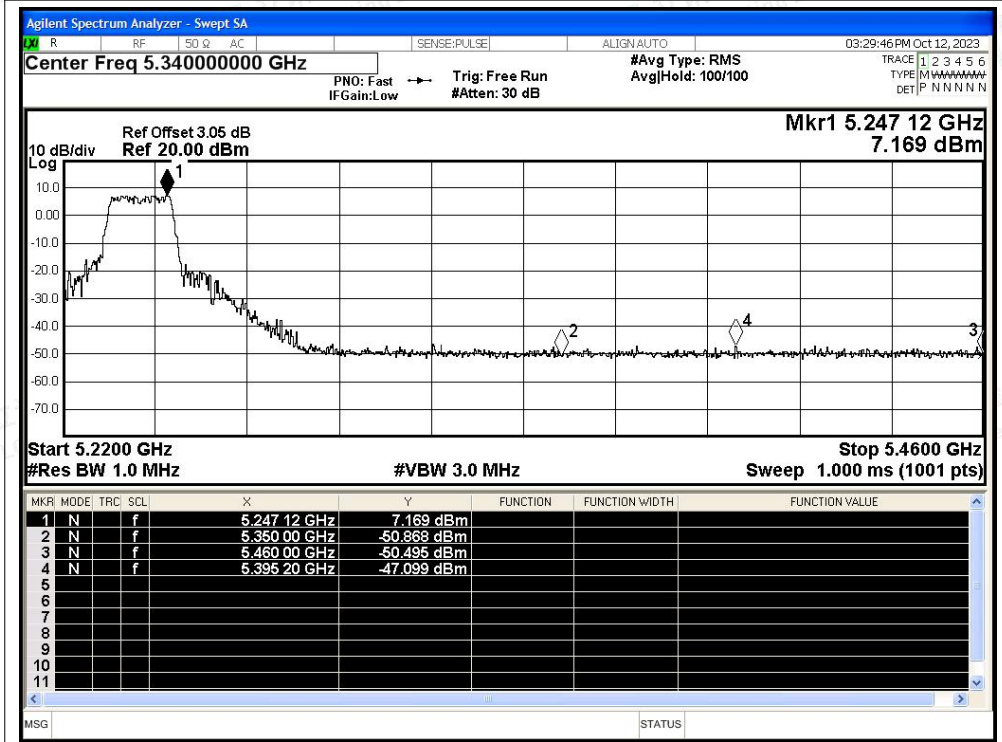


Restrict Band NVNT a 5180MHz Ant1 Average

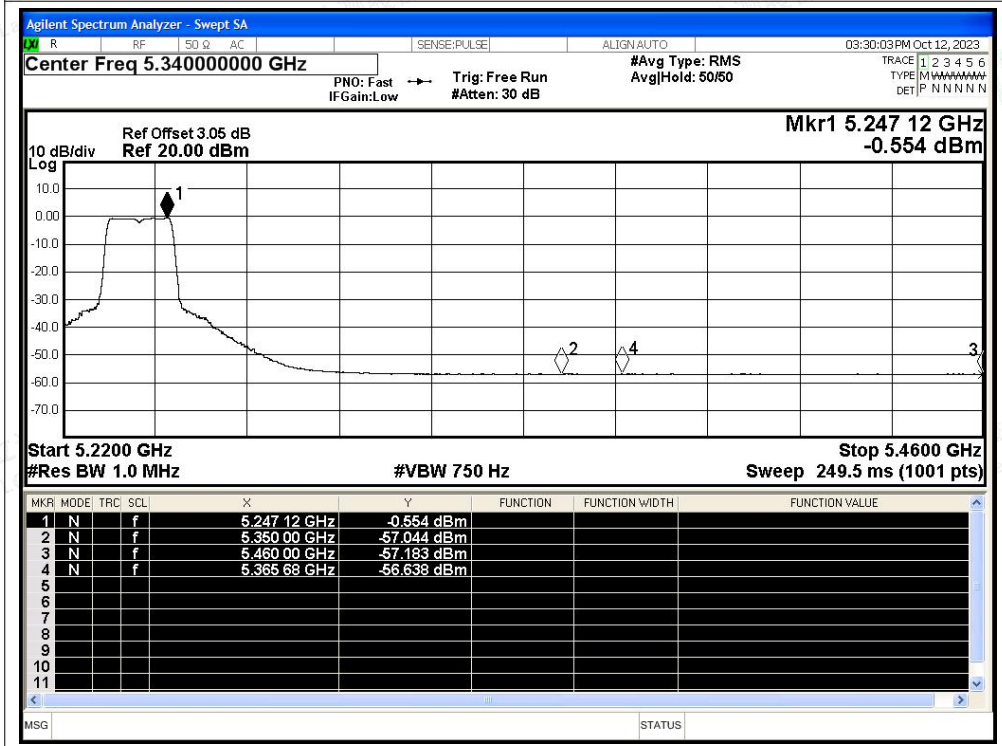




Restrict Band NVNT a 5240MHz Ant1 Peak

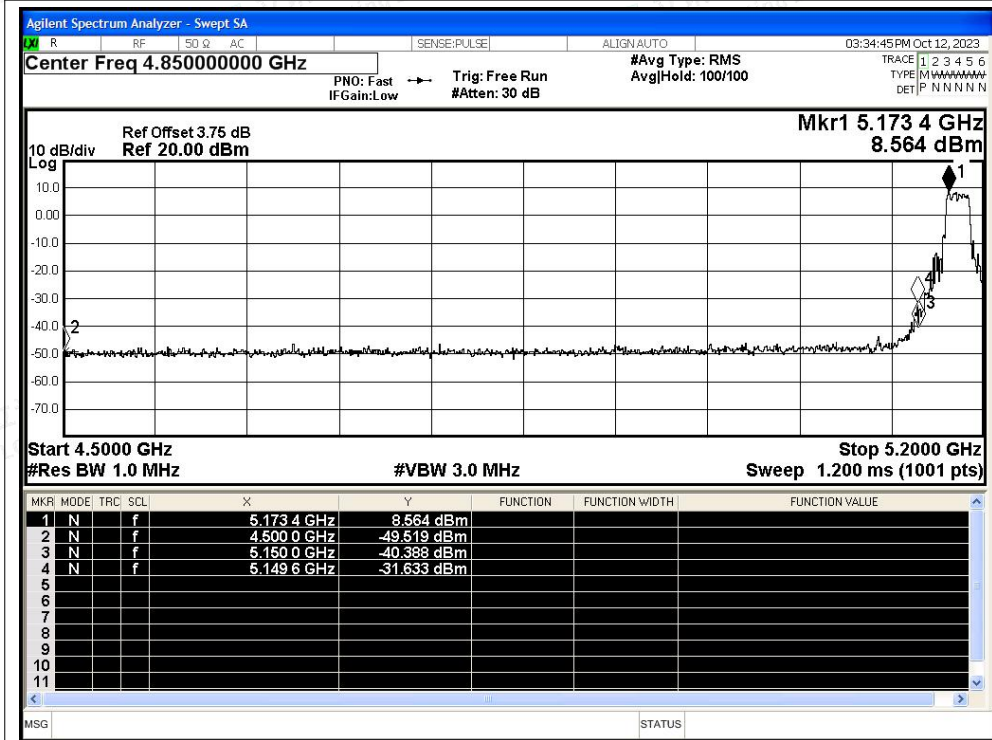


Restrict Band NVNT a 5240MHz Ant1 Average

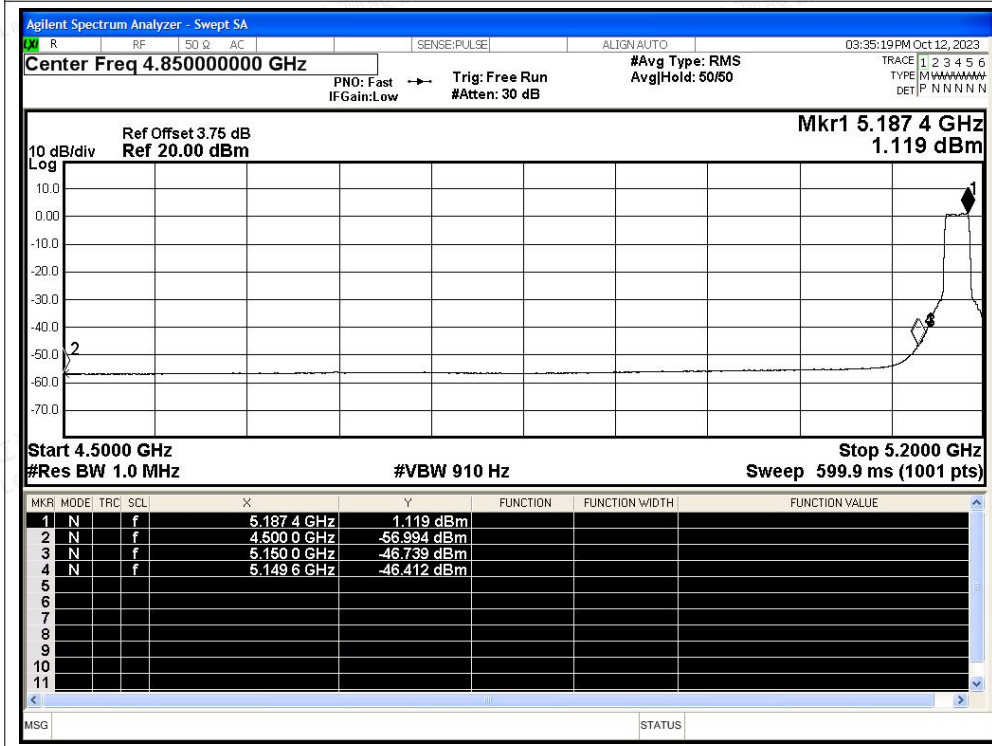




Restrict Band NVNT n20 5180MHz Ant1 Peak

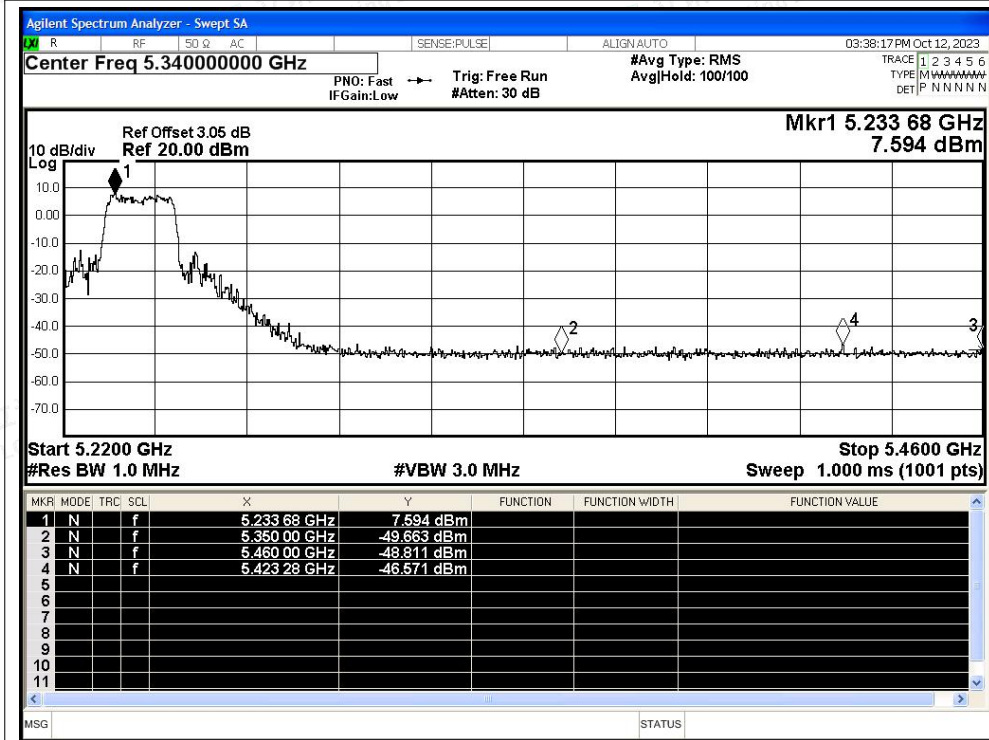


Restrict Band NVNT n20 5180MHz Ant1 Average

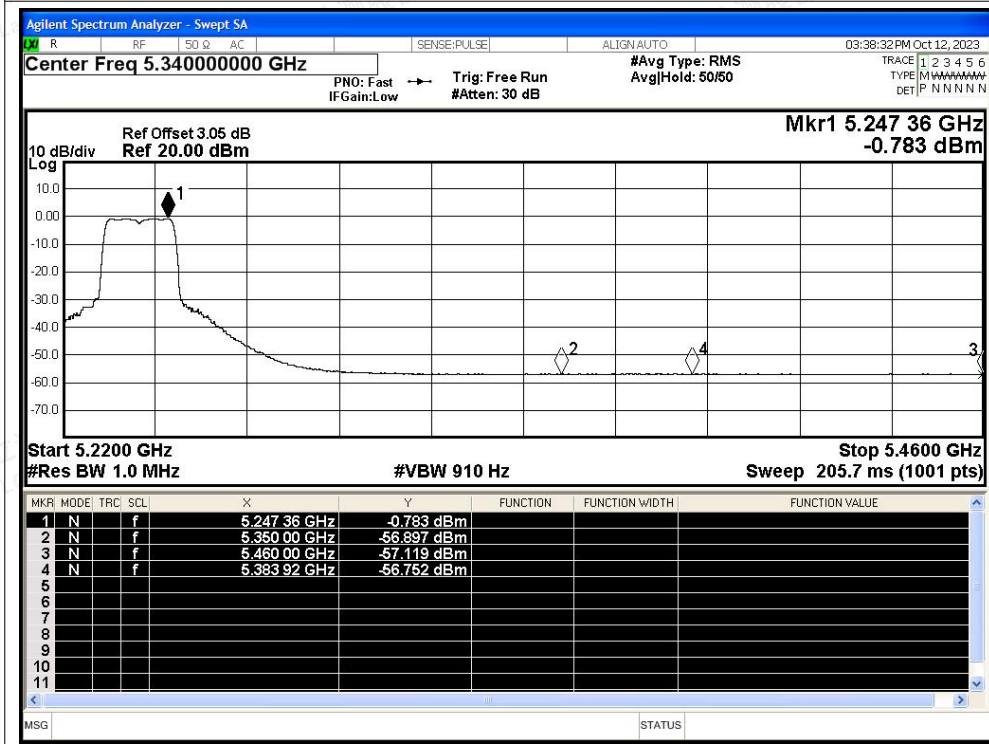




Restrict Band NVNT n20 5240MHz Ant1 Peak

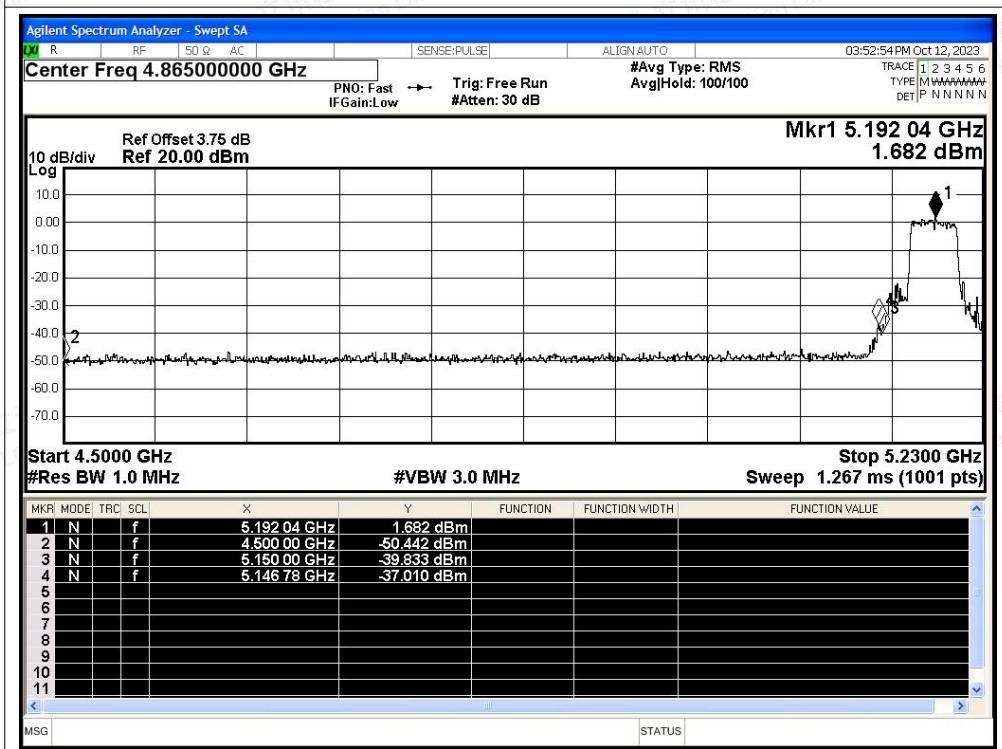


Restrict Band NVNT n20 5240MHz Ant1 Average

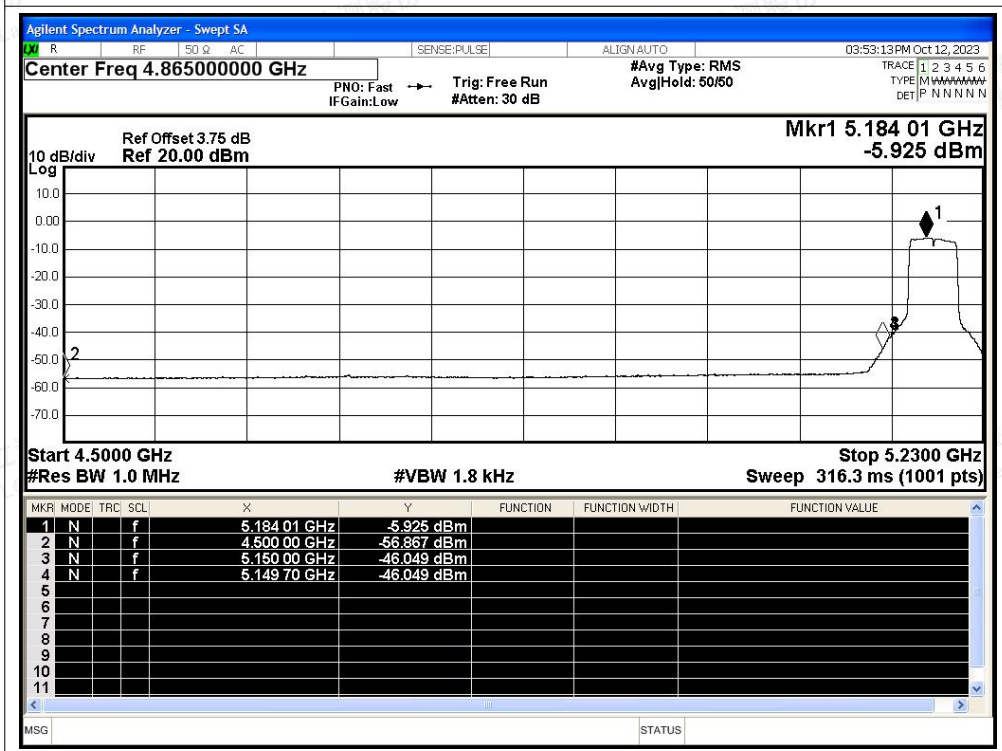




Restrict Band NVNT n40 5190MHz Ant1 Peak

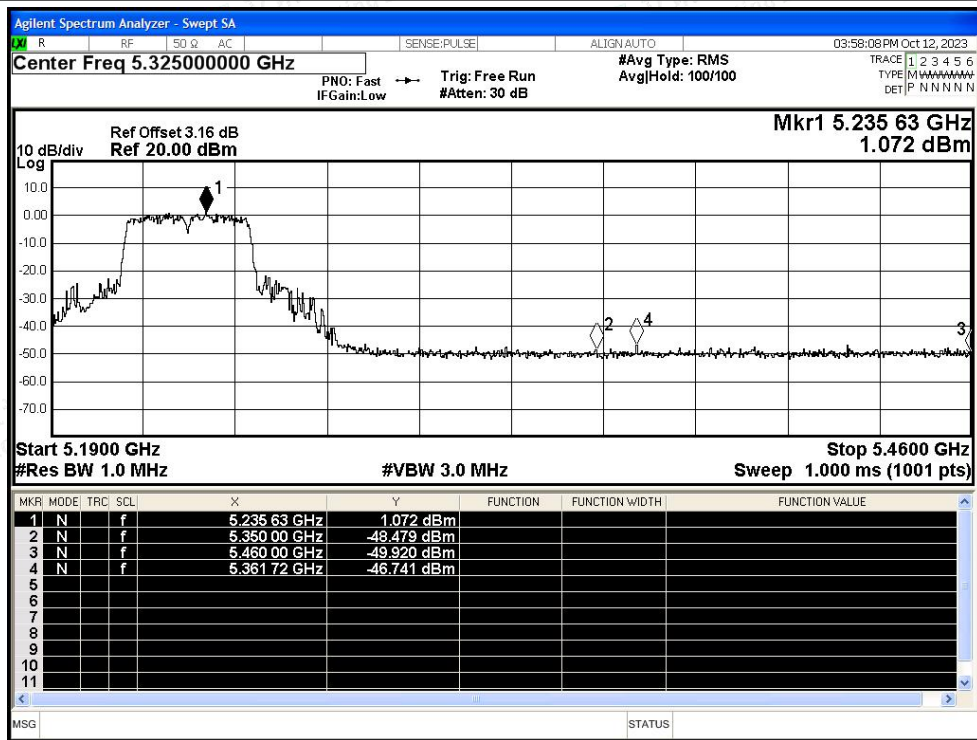


Restrict Band NVNT n40 5190MHz Ant1 Average

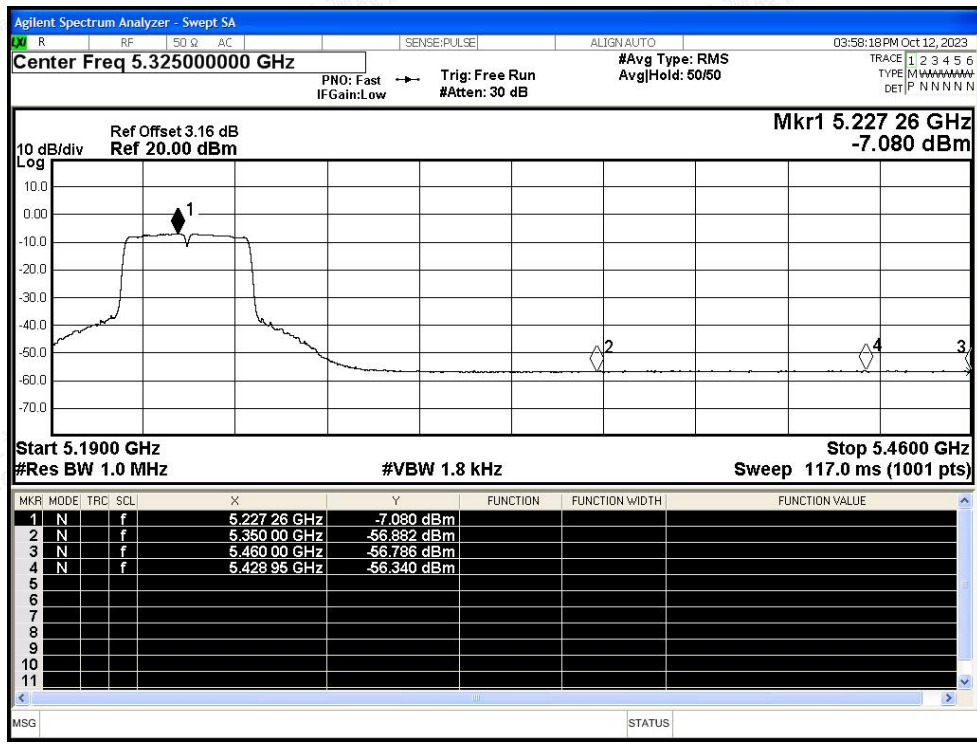




Restrict Band NVNT n40 5230MHz Ant1 Peak

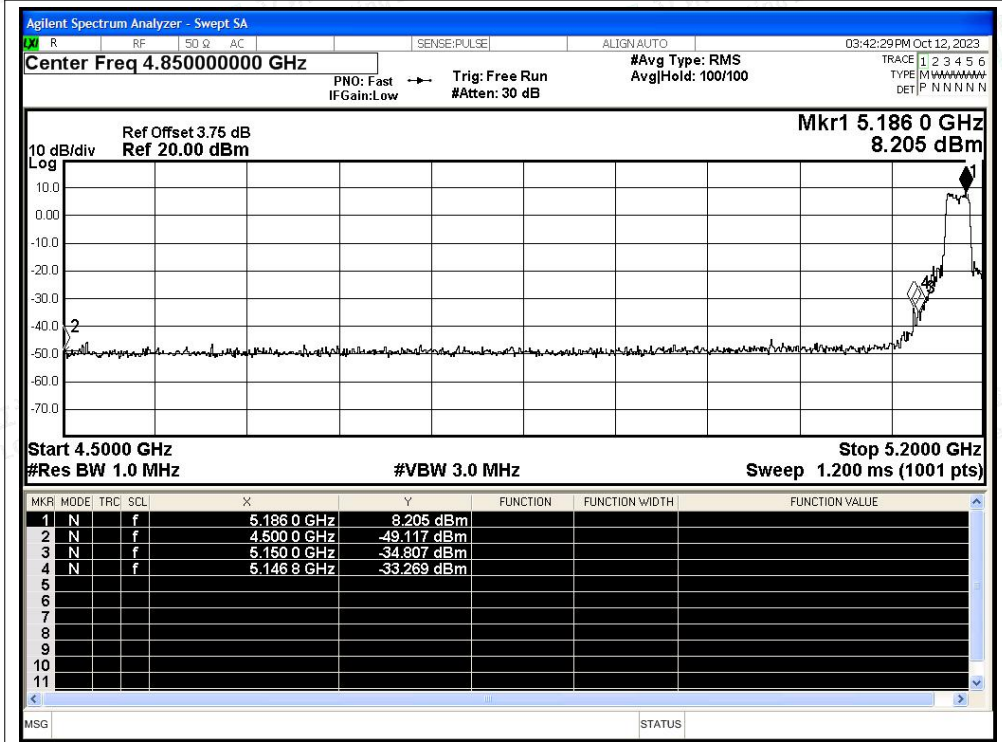


Restrict Band NVNT n40 5230MHz Ant1 Average

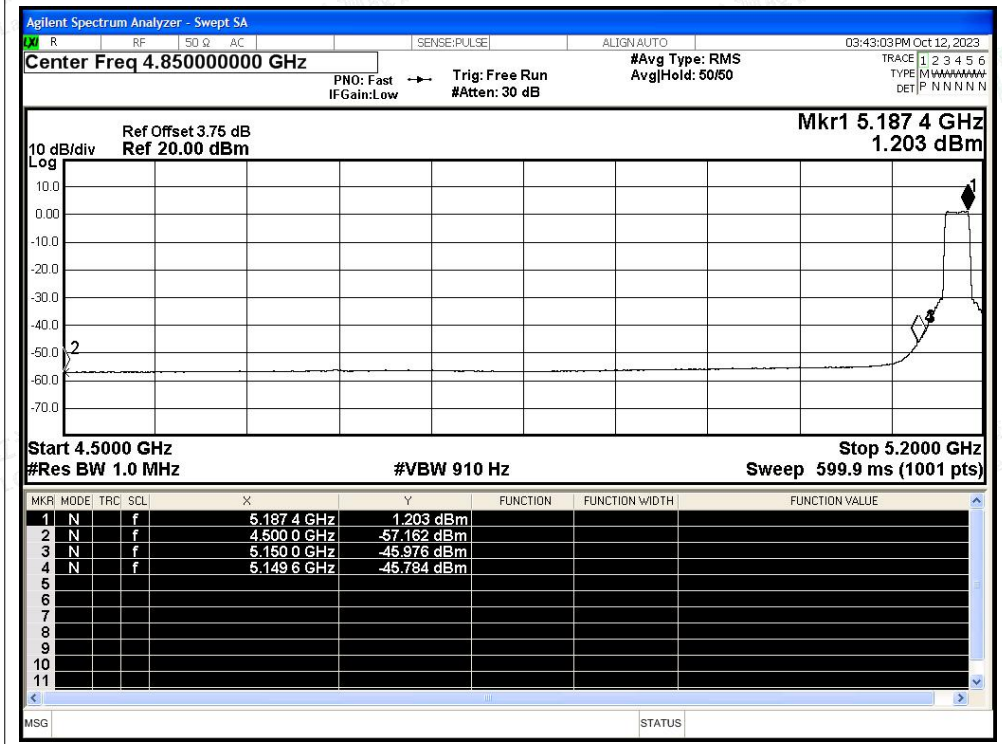




Restrict Band NVNT ac20 5180MHz Ant1 Peak

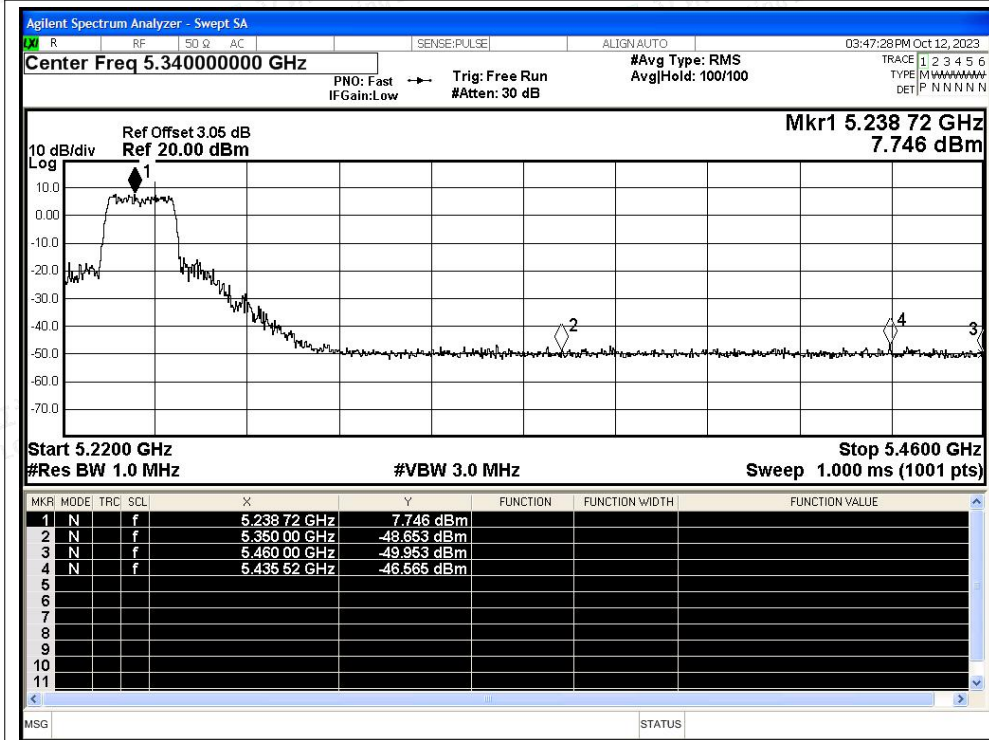


Restrict Band NVNT ac20 5180MHz Ant1 Average





Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average

