



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Mini PC

Test Model: HPPMC20

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
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	Ant0	19.766	>=0.5	Pass
NVNT	a	5200	Ant0	19.666	>=0.5	Pass
NVNT	a	5240	Ant0	19.694	>=0.5	Pass
NVNT	n20	5180	Ant0	19.946	>=0.5	Pass
NVNT	n20	5200	Ant0	20.078	>=0.5	Pass
NVNT	n20	5240	Ant0	20.065	>=0.5	Pass
NVNT	n40	5190	Ant0	40.379	>=0.5	Pass
NVNT	n40	5230	Ant0	40.348	>=0.5	Pass
NVNT	ac20	5180	Ant0	19.888	>=0.5	Pass
NVNT	ac20	5200	Ant0	19.892	>=0.5	Pass
NVNT	ac20	5240	Ant0	20.301	>=0.5	Pass
NVNT	ac40	5190	Ant0	40.316	>=0.5	Pass
NVNT	ac40	5230	Ant0	40.24	>=0.5	Pass
NVNT	ac80	5210	Ant0	81.23	>=0.5	Pass

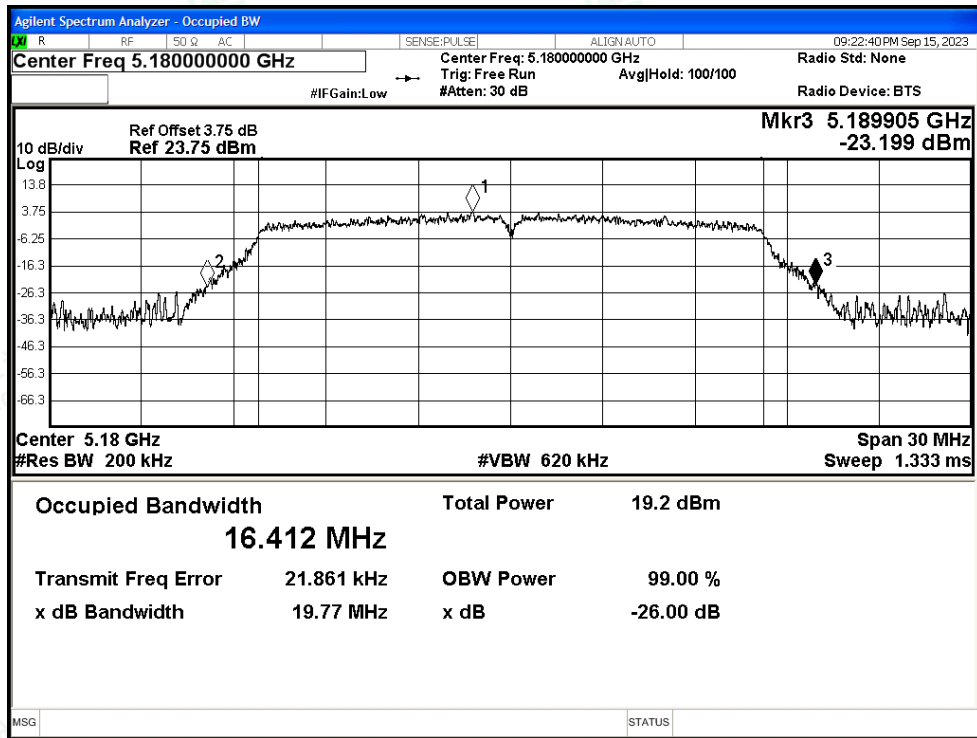


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

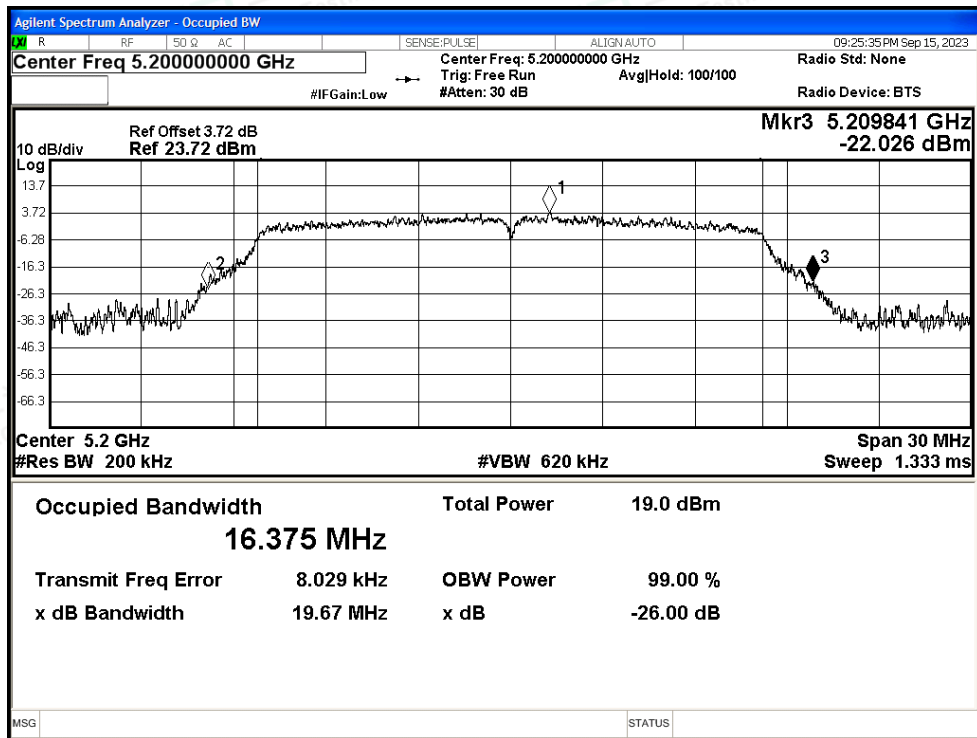


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0

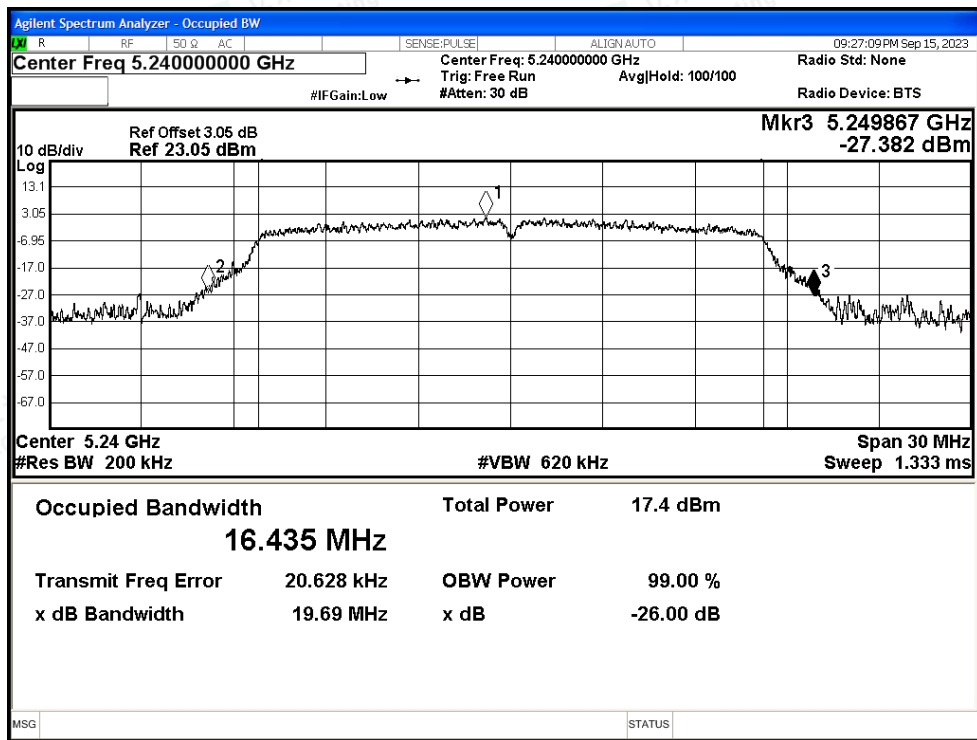


-26dB Bandwidth NVNT a 5200MHz Ant0

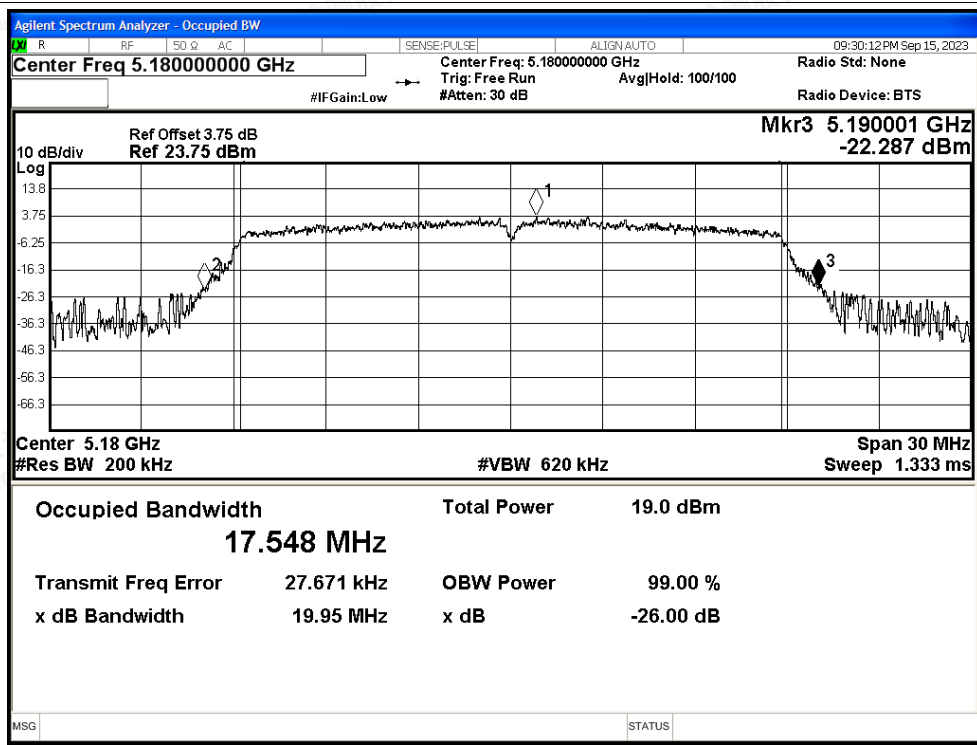




-26dB Bandwidth NVNT a 5240MHz Ant0

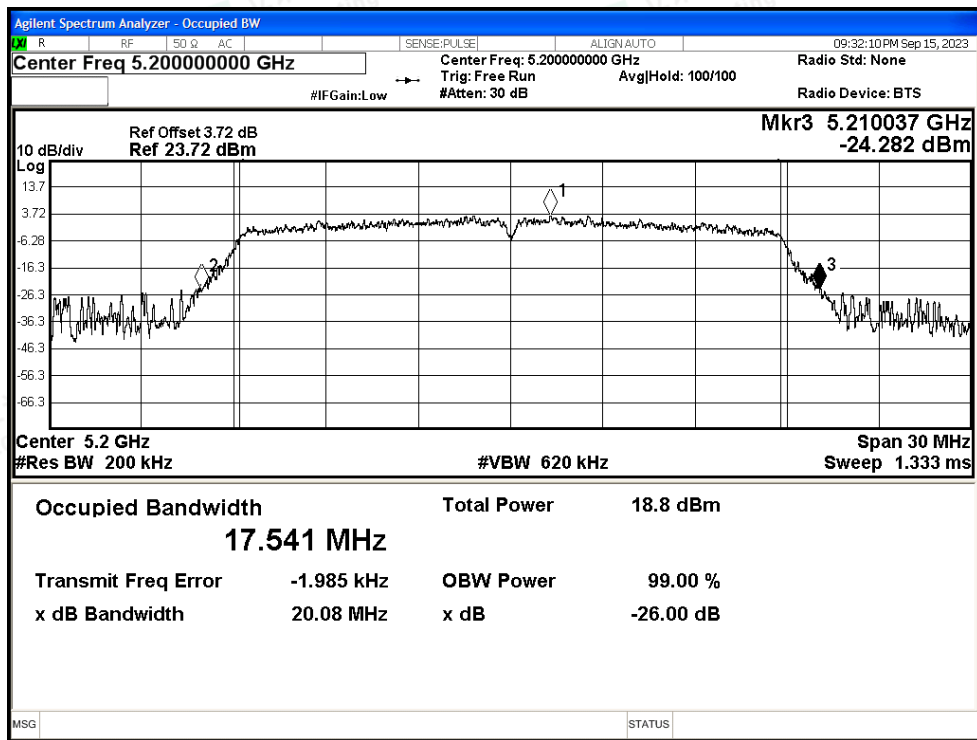


-26dB Bandwidth NVNT n20 5180MHz Ant0

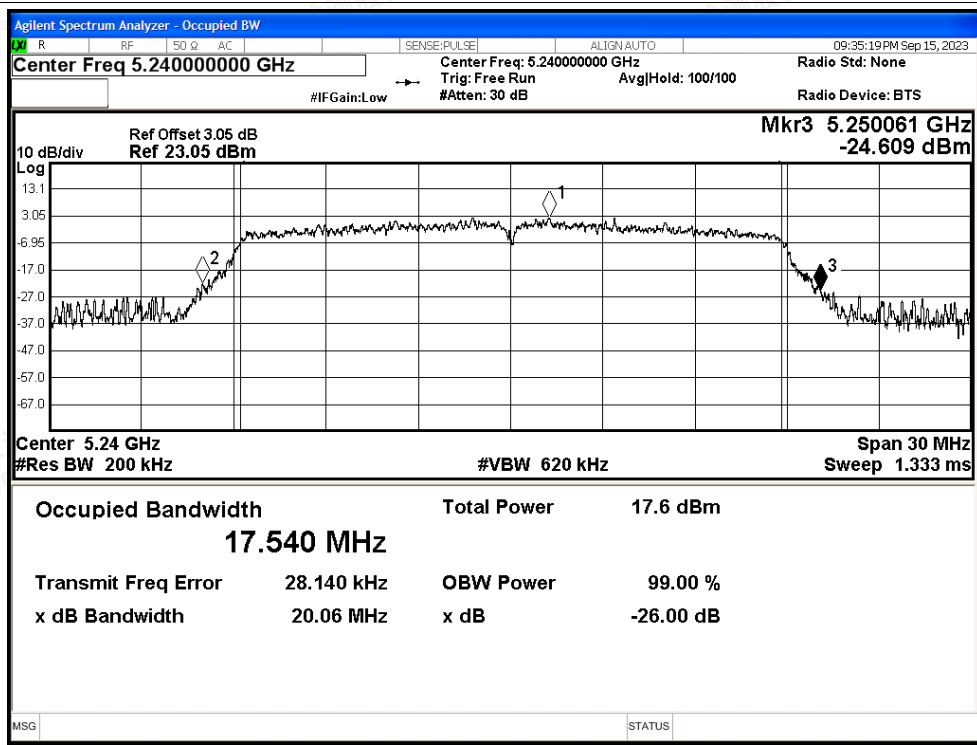




-26dB Bandwidth NVNT n20 5200MHz Ant0

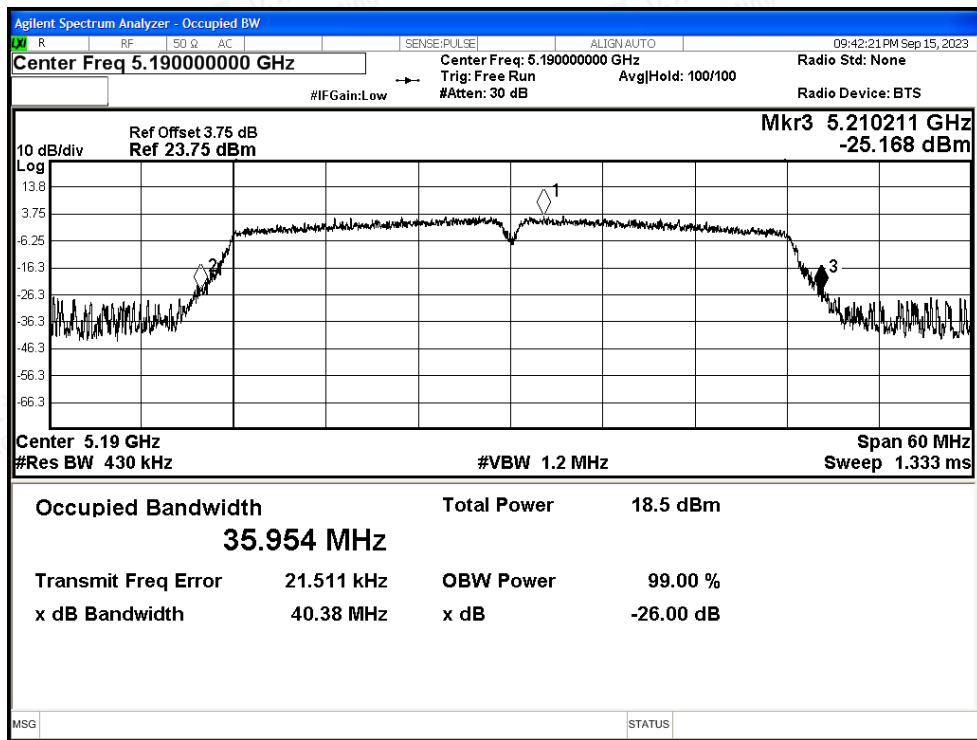


-26dB Bandwidth NVNT n20 5240MHz Ant0

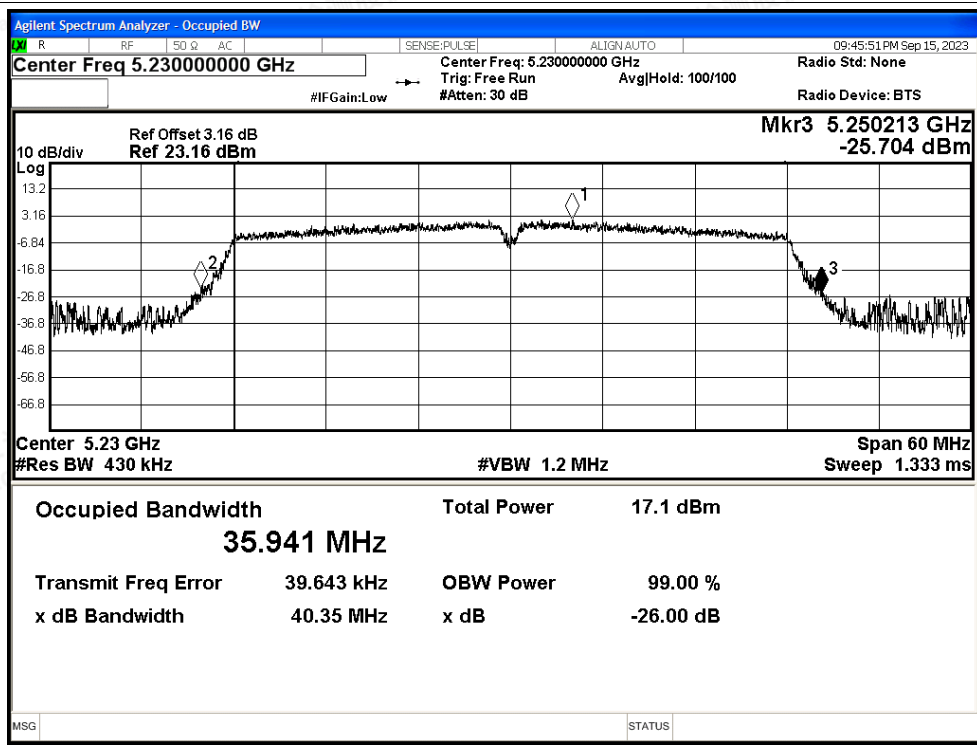




-26dB Bandwidth NVNT n40 5190MHz Ant0

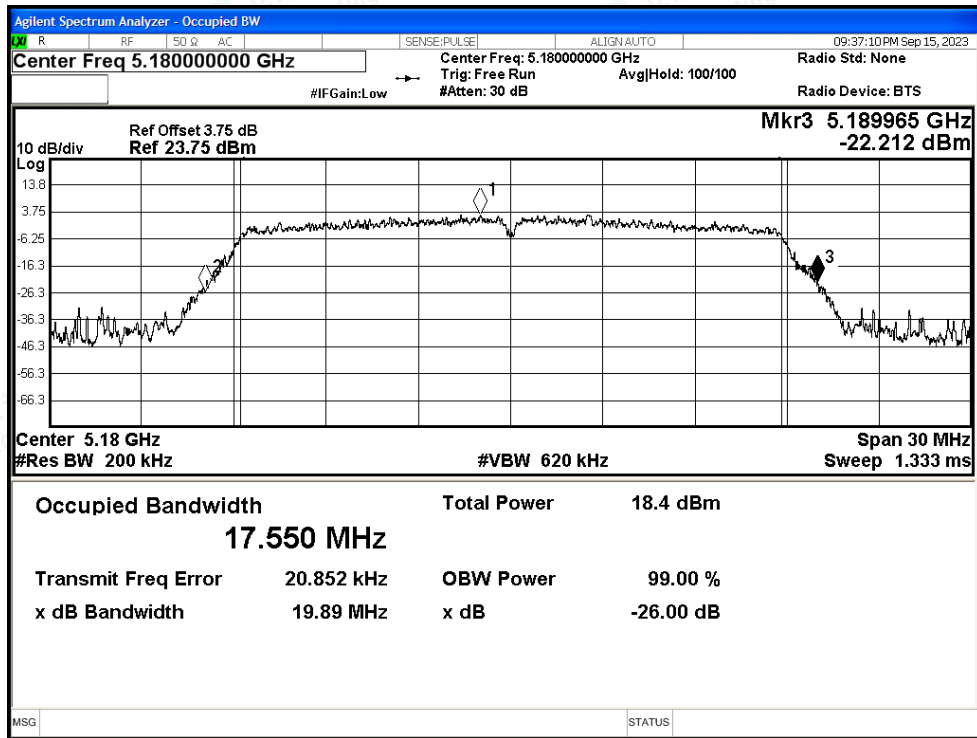


-26dB Bandwidth NVNT n40 5230MHz Ant0

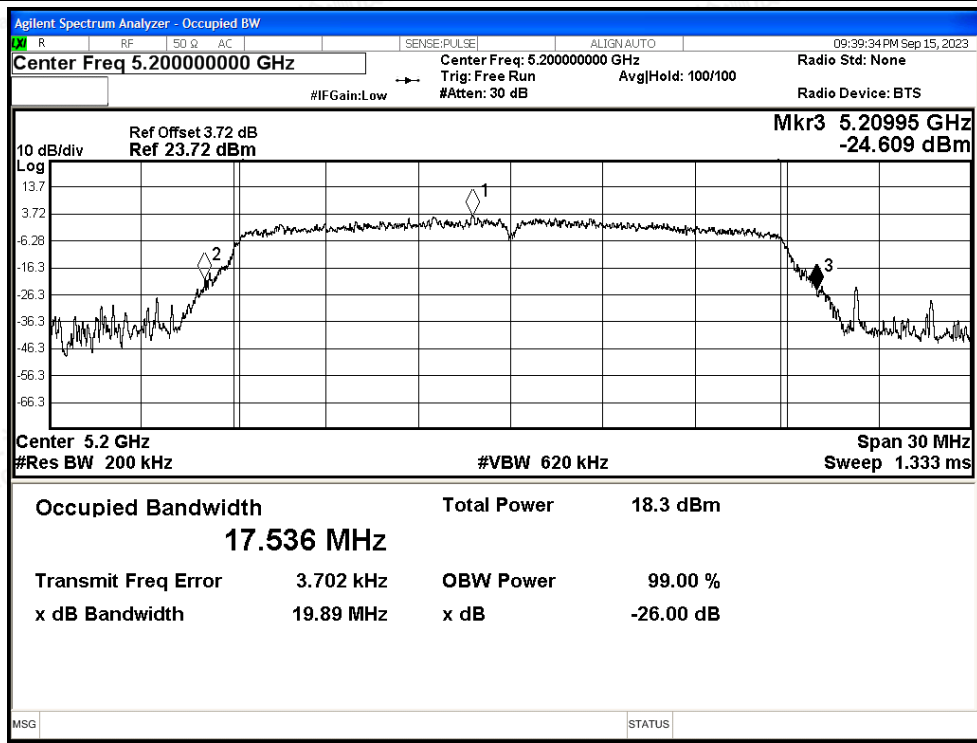




-26dB Bandwidth NVNT ac20 5180MHz Ant0

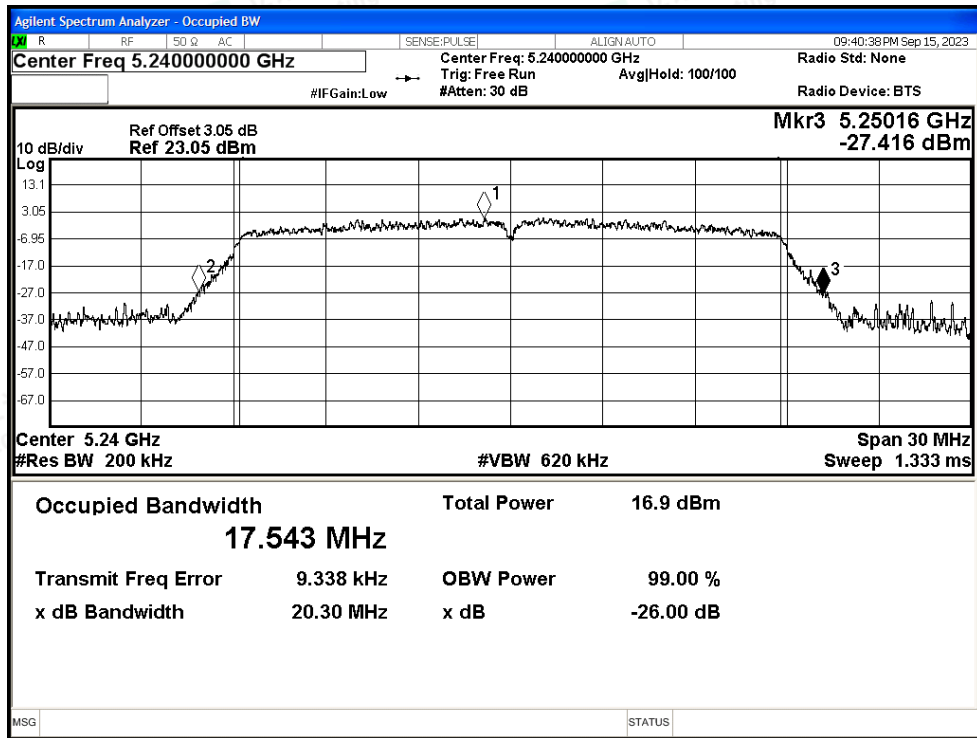


-26dB Bandwidth NVNT ac20 5200MHz Ant0

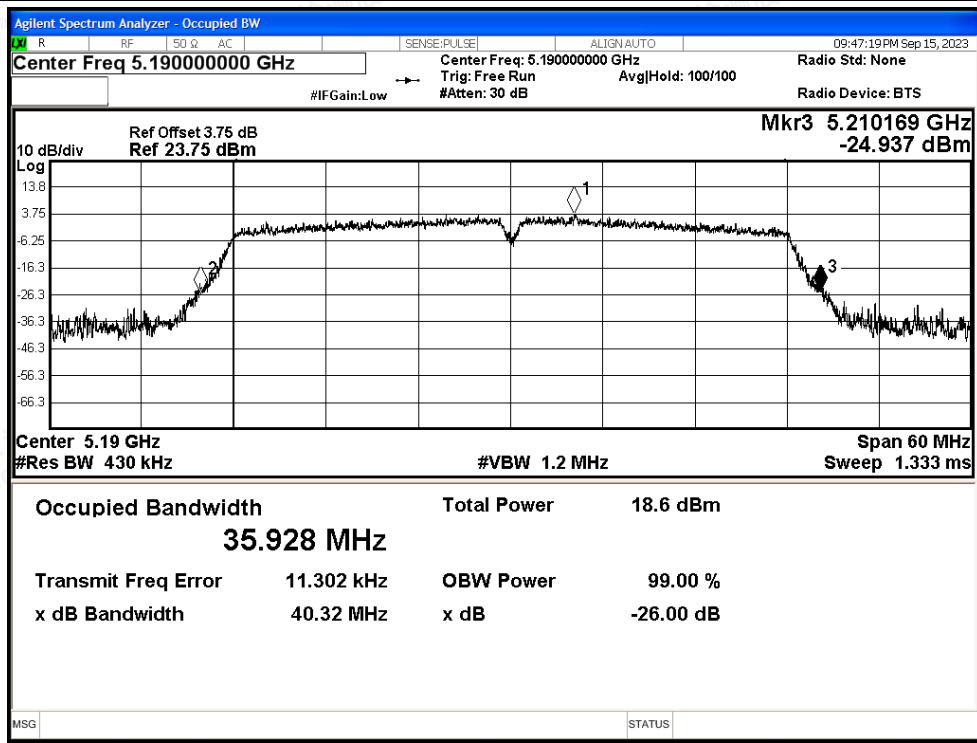




-26dB Bandwidth NVNT ac20 5240MHz Ant0

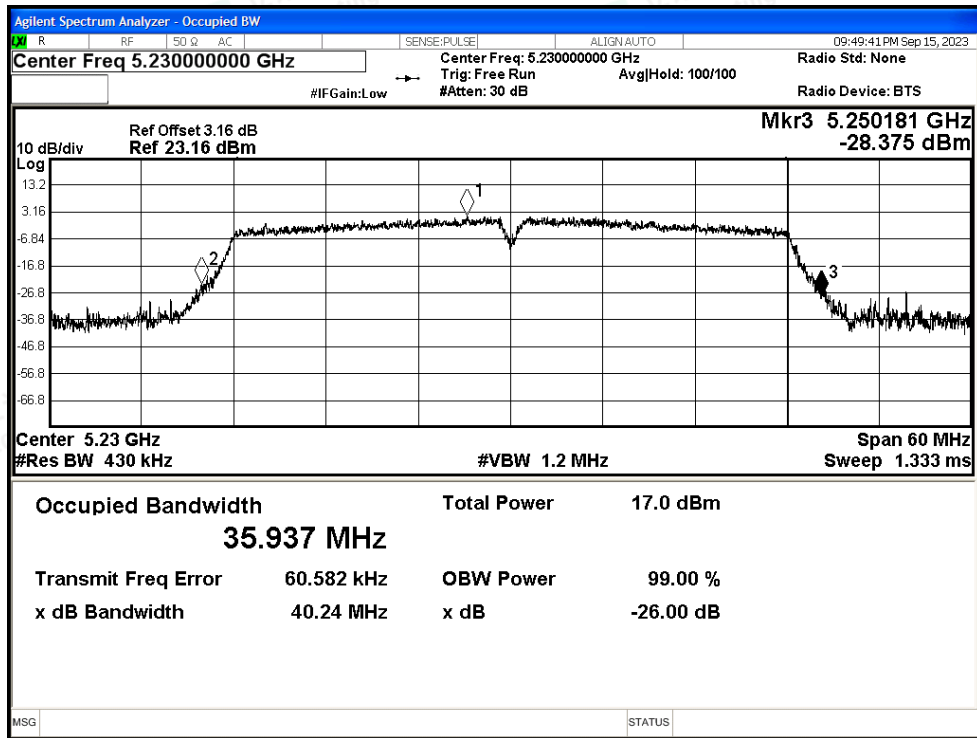


-26dB Bandwidth NVNT ac40 5190MHz Ant0

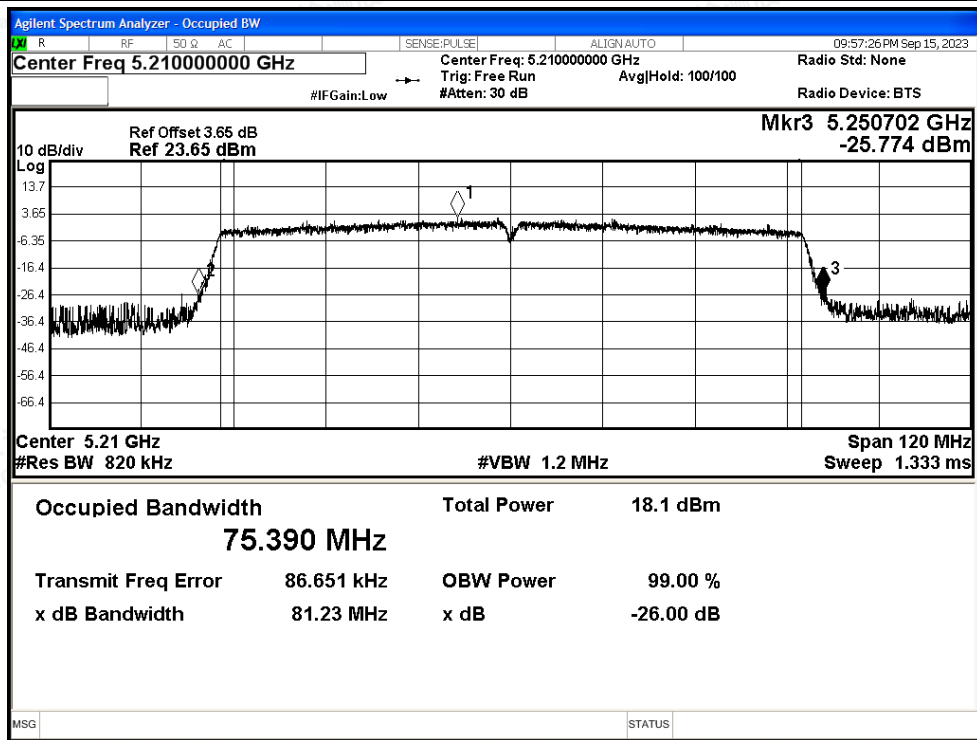




-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.862	0.5	Pass
NVNT	a	5200	Ant1	19.751	0.5	Pass
NVNT	a	5240	Ant1	19.619	0.5	Pass
NVNT	n20	5180	Ant1	20.055	0.5	Pass
NVNT	n20	5200	Ant1	20.199	0.5	Pass
NVNT	n20	5240	Ant1	20.089	0.5	Pass
NVNT	n40	5190	Ant1	39.893	0.5	Pass
NVNT	n40	5230	Ant1	40.061	0.5	Pass
NVNT	ac20	5180	Ant1	20.104	0.5	Pass
NVNT	ac20	5200	Ant1	19.951	0.5	Pass
NVNT	ac20	5240	Ant1	19.943	0.5	Pass
NVNT	ac40	5190	Ant1	40.308	0.5	Pass
NVNT	ac40	5230	Ant1	40.09	0.5	Pass
NVNT	ac80	5210	Ant1	79.958	0.5	Pass

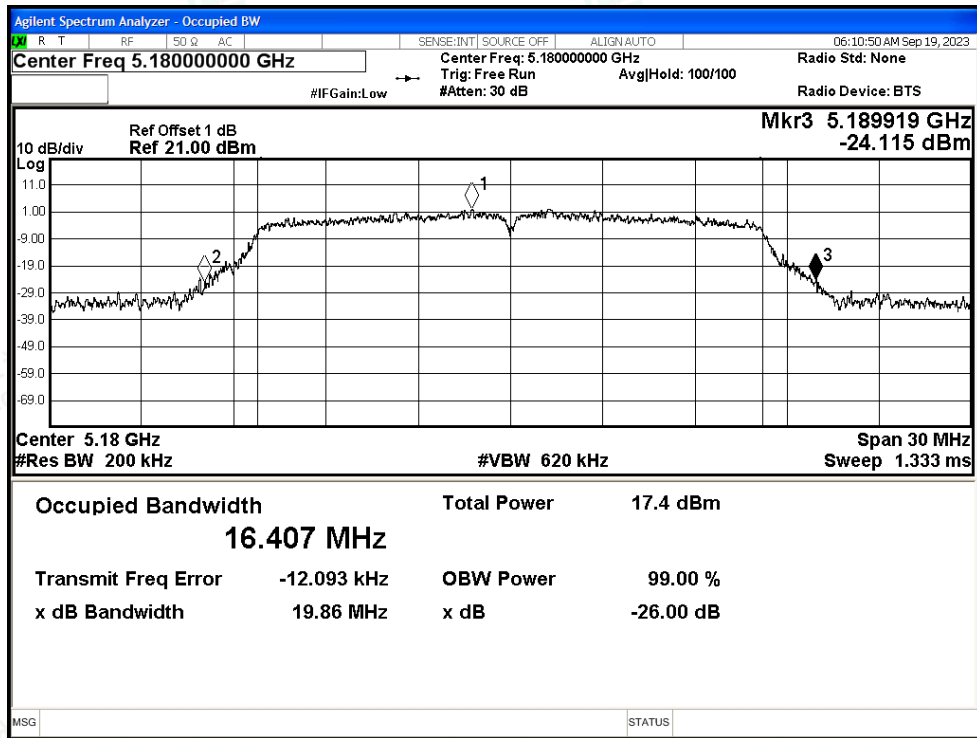


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

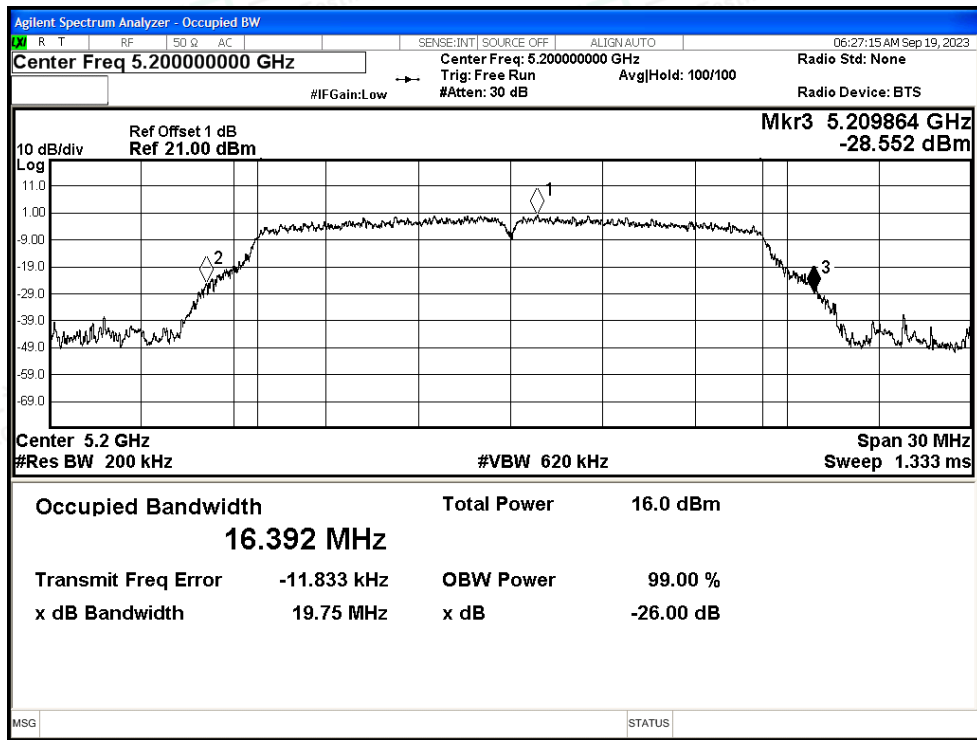


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

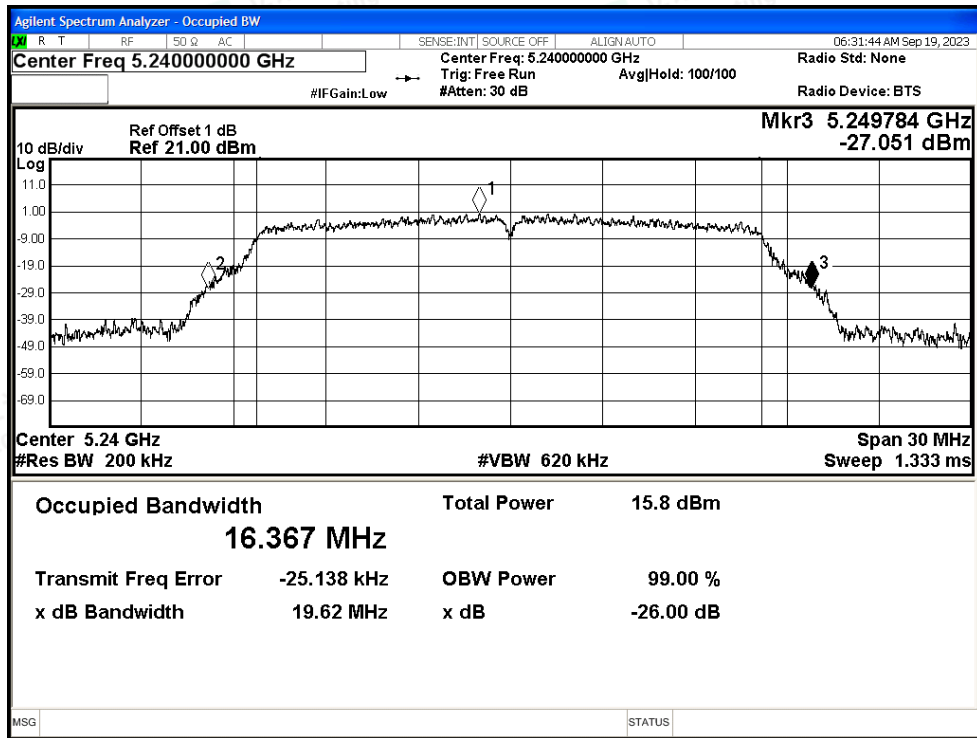


-26dB Bandwidth NVNT a 5200MHz Ant1

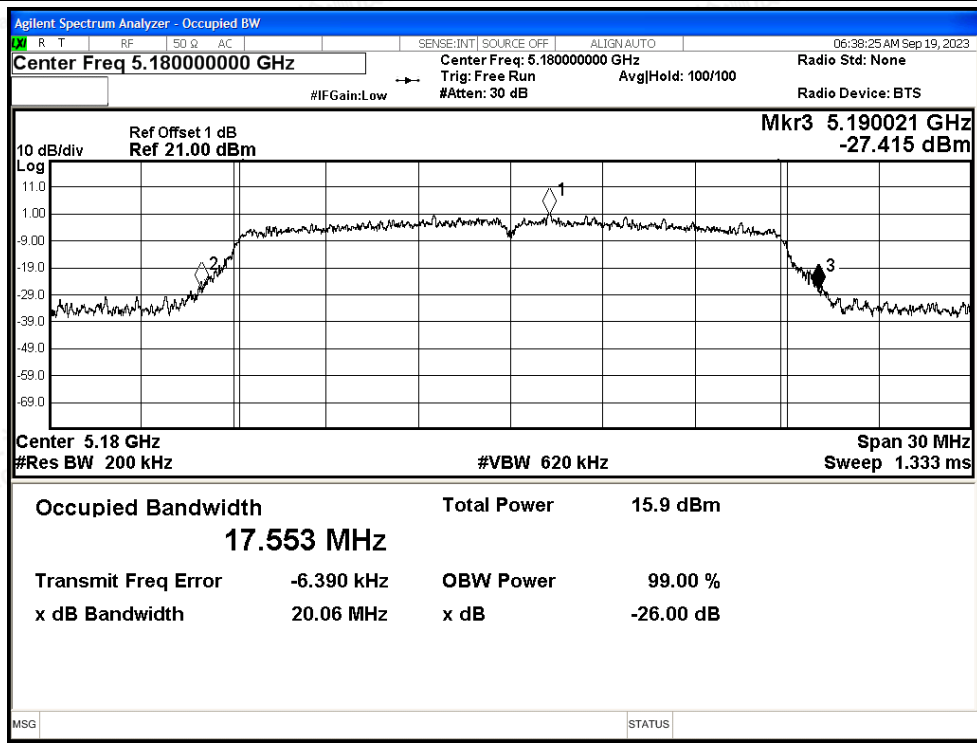




-26dB Bandwidth NVNT a 5240MHz Ant1

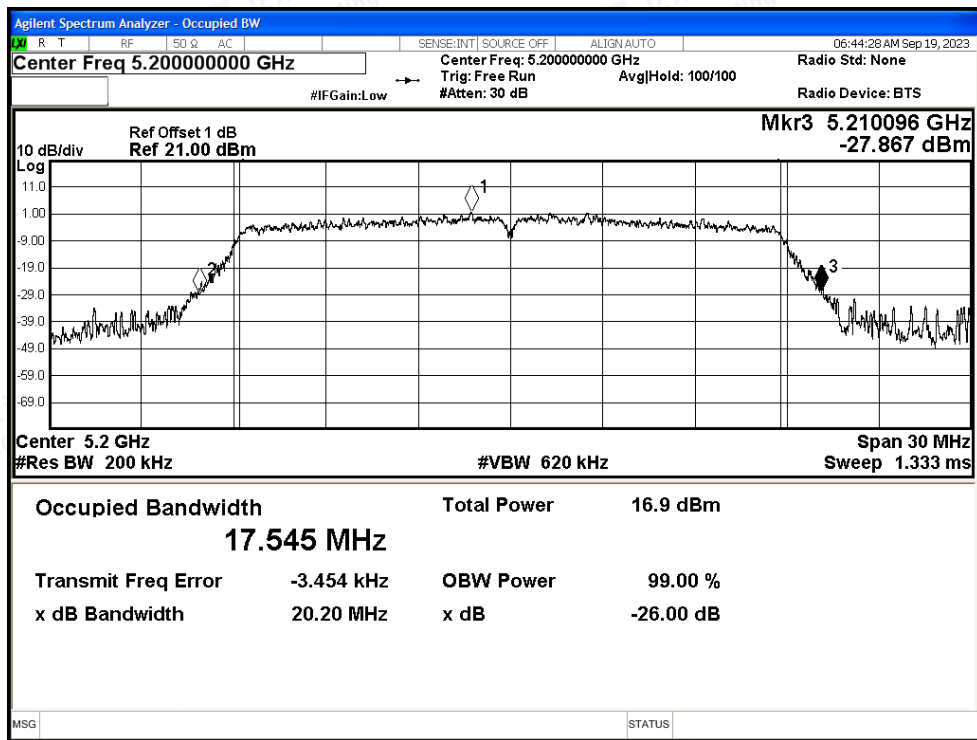


-26dB Bandwidth NVNT n20 5180MHz Ant1





-26dB Bandwidth NVNT n20 5200MHz Ant1

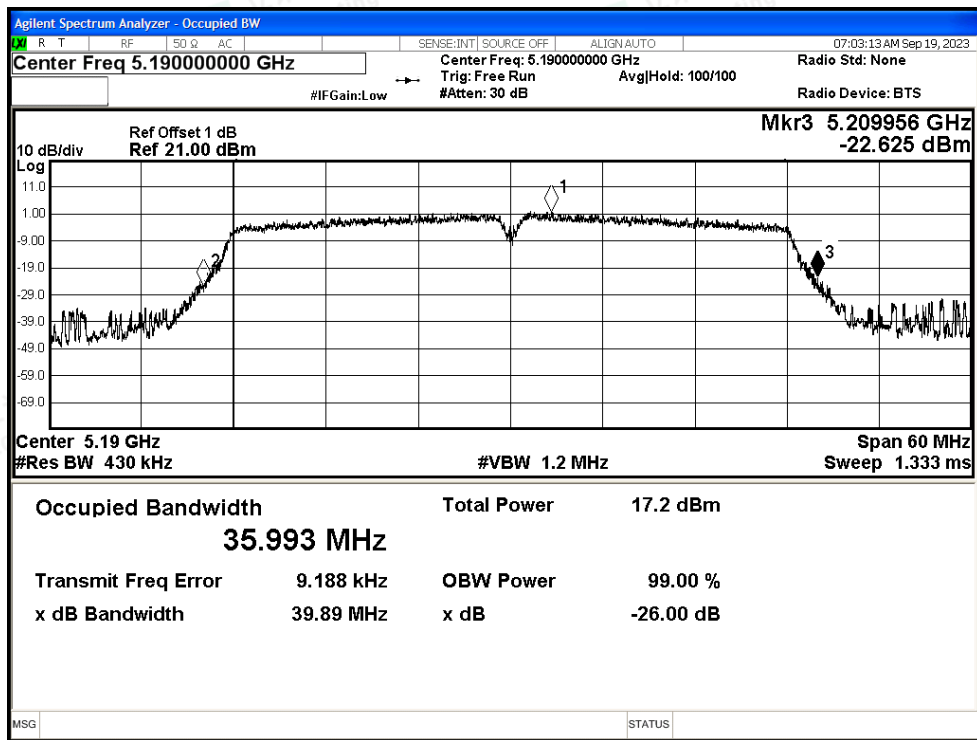


-26dB Bandwidth NVNT n20 5240MHz Ant1

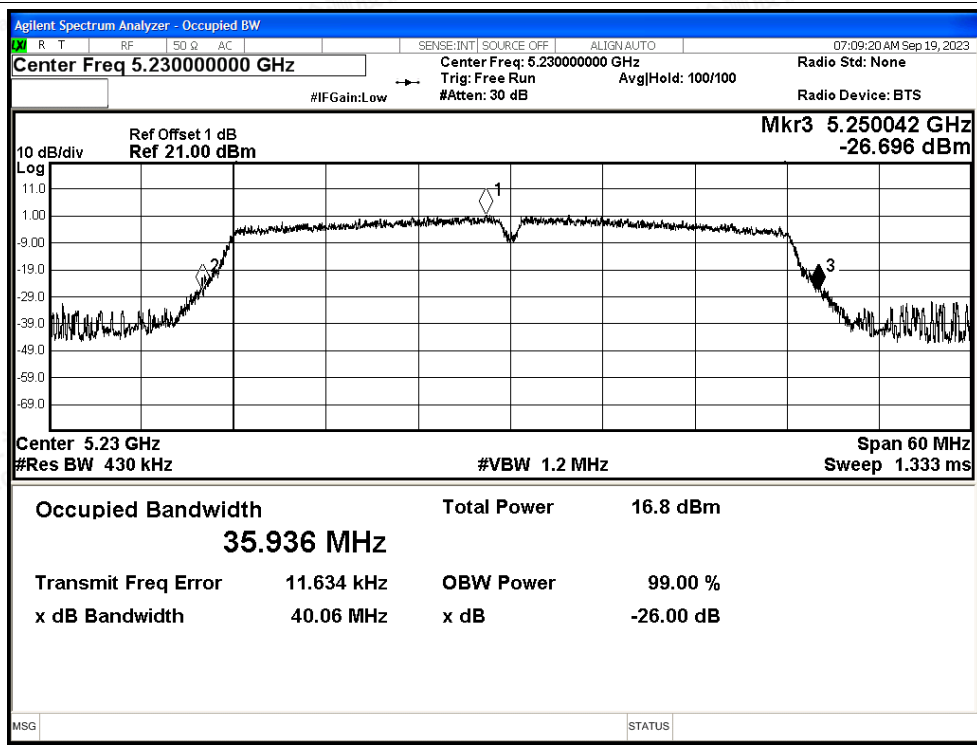




-26dB Bandwidth NVNT n40 5190MHz Ant1

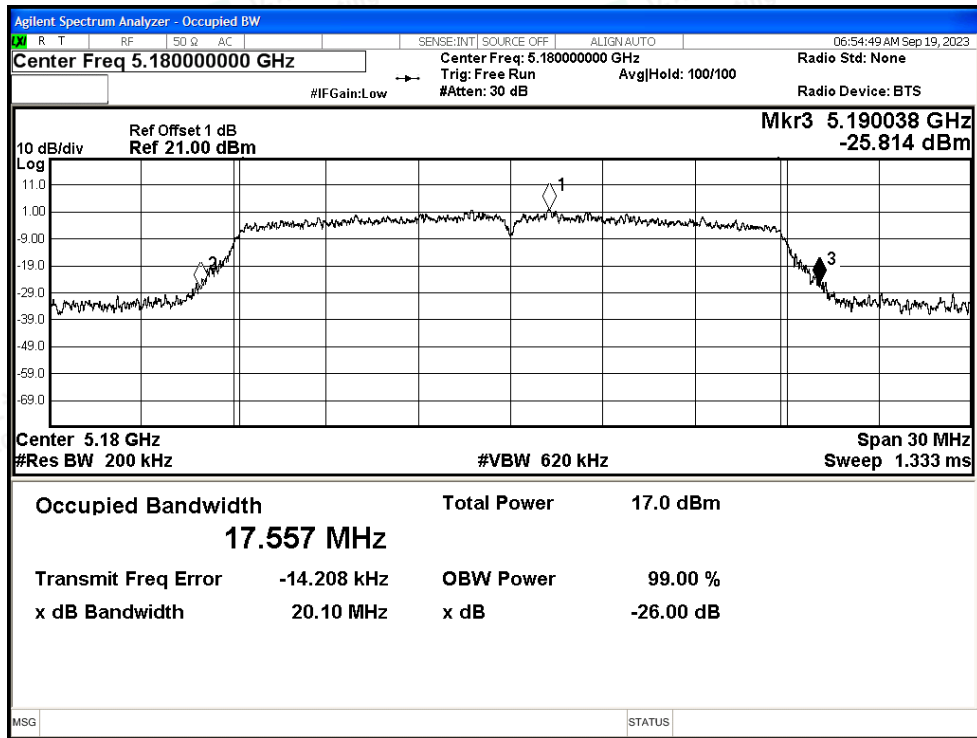


-26dB Bandwidth NVNT n40 5230MHz Ant1

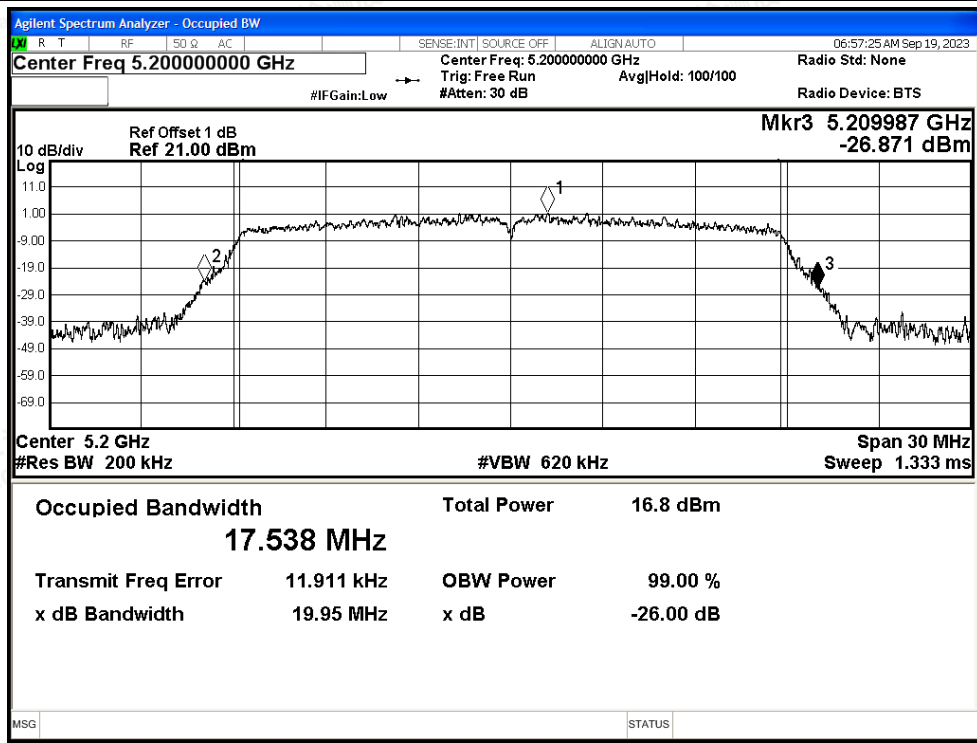




-26dB Bandwidth NVNT ac20 5180MHz Ant1

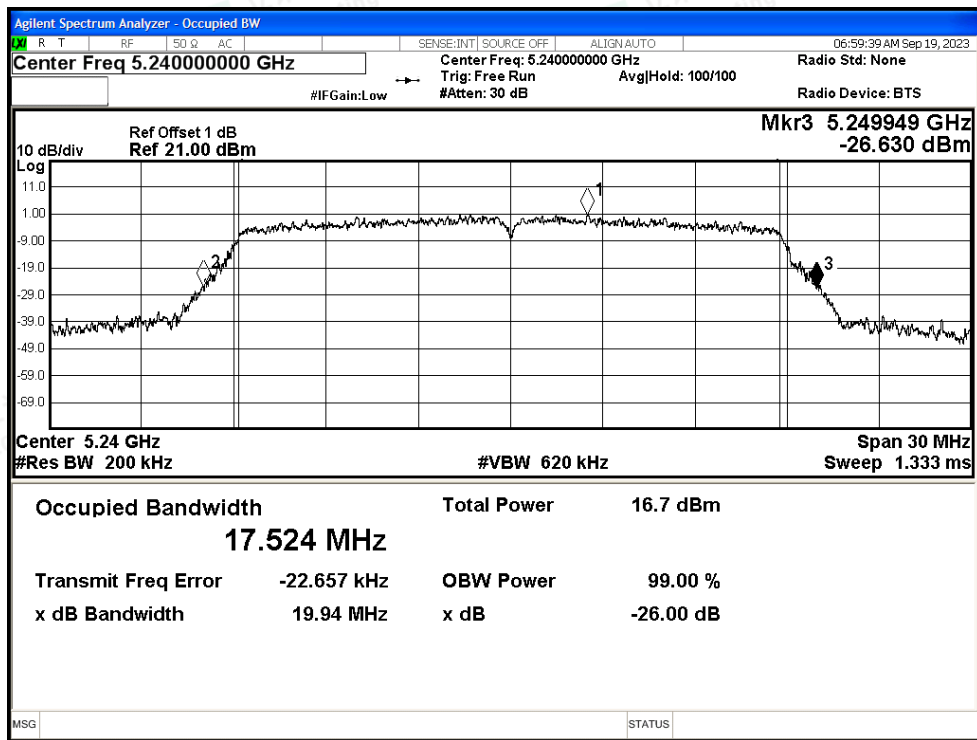


-26dB Bandwidth NVNT ac20 5200MHz Ant1

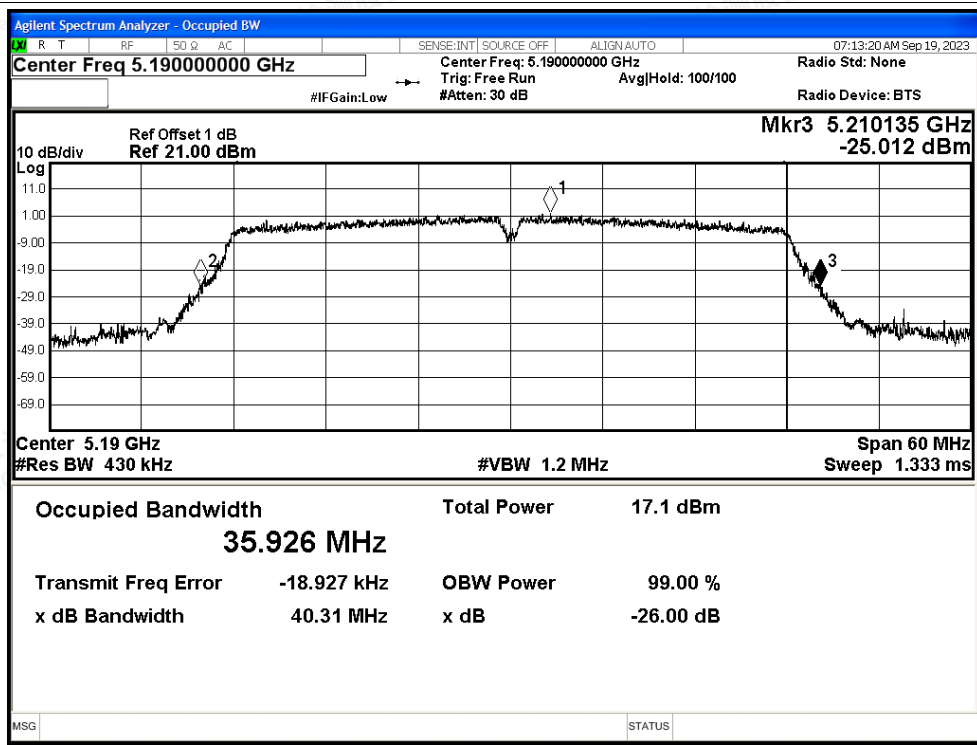




-26dB Bandwidth NVNT ac20 5240MHz Ant1

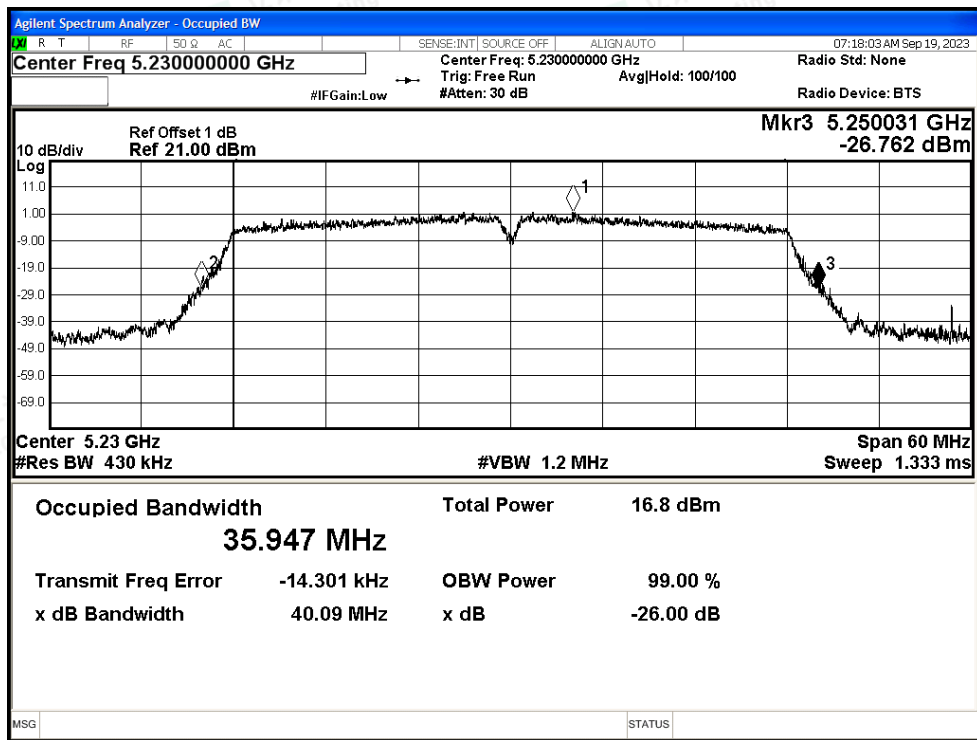


-26dB Bandwidth NVNT ac40 5190MHz Ant1

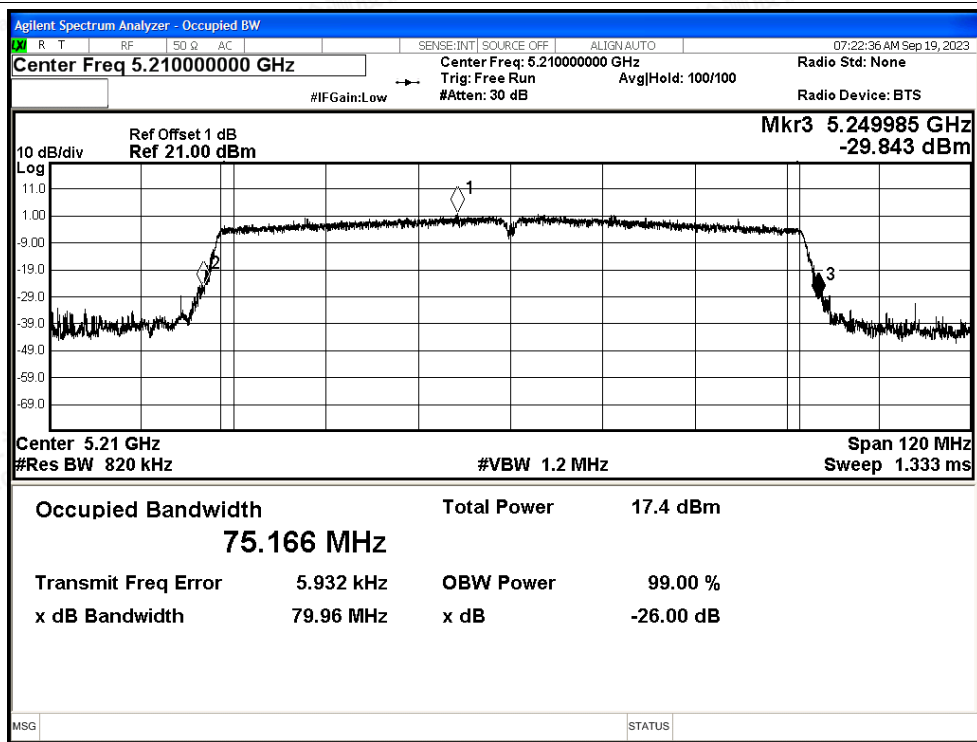




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-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	Ant0	13.52	0.13	13.65	24	Pass
NVNT	a	5200	Ant0	13.41	0.13	13.54	24	Pass
NVNT	a	5240	Ant0	11.73	0.13	11.86	24	Pass
NVNT	n20	5180	Ant0	13.35	0.15	13.50	24	Pass
NVNT	n20	5200	Ant0	13.19	0.15	13.34	24	Pass
NVNT	n20	5240	Ant0	11.9	0.15	12.05	24	Pass
NVNT	n40	5190	Ant0	12.64	0.29	12.93	24	Pass
NVNT	n40	5230	Ant0	11	0.28	11.28	24	Pass
NVNT	ac20	5180	Ant0	12.8	0.14	12.94	24	Pass
NVNT	ac20	5200	Ant0	12.74	0.14	12.88	24	Pass
NVNT	ac20	5240	Ant0	11.16	0.14	11.30	24	Pass
NVNT	ac40	5190	Ant0	12.63	0.28	12.91	24	Pass
NVNT	ac40	5230	Ant0	10.93	0.28	11.21	24	Pass
NVNT	ac80	5210	Ant0	11.68	0.55	12.23	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.93	0.13	12.06	24	Pass
NVNT	a	5200	Ant1	11.27	0.13	11.40	24	Pass
NVNT	a	5240	Ant1	10.11	0.13	10.24	24	Pass
NVNT	n20	5180	Ant1	10.14	0.15	10.29	24	Pass
NVNT	n20	5200	Ant1	11.34	0.15	11.49	24	Pass
NVNT	n20	5240	Ant1	11.09	0.15	11.24	24	Pass
NVNT	n40	5190	Ant1	11.22	0.29	11.51	24	Pass
NVNT	n40	5230	Ant1	10.86	0.29	11.15	24	Pass
NVNT	ac20	5180	Ant1	11.2	0.14	11.34	24	Pass
NVNT	ac20	5200	Ant1	11.22	0.14	11.36	24	Pass
NVNT	ac20	5240	Ant1	11.08	0.14	11.22	24	Pass
NVNT	ac40	5190	Ant1	11.3	0.28	11.58	24	Pass
NVNT	ac40	5230	Ant1	10.9	0.28	11.18	24	Pass
NVNT	ac80	5210	Ant1	11.02	0.55	11.57	24	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



MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	13.50	10.29	15.20	24	Pass
NVNT	n20	5200	13.34	11.49	15.52	24	Pass
NVNT	n20	5240	12.05	11.24	14.67	24	Pass
NVNT	n40	5190	12.93	11.51	15.29	24	Pass
NVNT	n40	5230	11.28	11.15	14.23	24	Pass
NVNT	ac20	5180	12.94	11.34	15.22	24	Pass
NVNT	ac20	5200	12.88	11.36	15.20	24	Pass
NVNT	ac20	5240	11.30	11.22	14.27	24	Pass
NVNT	ac40	5190	12.91	11.58	15.31	24	Pass
NVNT	ac40	5230	11.21	11.18	14.21	24	Pass
NVNT	ac80	5210	12.23	11.57	14.92	24	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



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	Ant0	4.32	0.13	4.45	11	Pass
NVNT	a	5200	Ant0	3.96	0.13	4.09	11	Pass
NVNT	a	5240	Ant0	2.23	0.13	2.36	11	Pass
NVNT	n20	5180	Ant0	3.53	0.15	3.68	11	Pass
NVNT	n20	5200	Ant0	3.32	0.15	3.47	11	Pass
NVNT	n20	5240	Ant0	2.05	0.15	2.20	11	Pass
NVNT	n40	5190	Ant0	0.43	0.29	0.72	11	Pass
NVNT	n40	5230	Ant0	-1.6	0.28	-1.32	11	Pass
NVNT	ac20	5180	Ant0	2.83	0.14	2.97	11	Pass
NVNT	ac20	5200	Ant0	2.81	0.14	2.95	11	Pass
NVNT	ac20	5240	Ant0	1.37	0.14	1.51	11	Pass
NVNT	ac40	5190	Ant0	0.13	0.28	0.41	11	Pass
NVNT	ac40	5230	Ant0	-1.24	0.28	-0.96	11	Pass
NVNT	ac80	5210	Ant0	-4.35	0.55	-3.80	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-1.52	0.13	-1.39	11	Pass
NVNT	a	5200	Ant1	-1.48	0.13	-1.35	11	Pass
NVNT	a	5240	Ant1	-2.61	0.13	-2.48	11	Pass
NVNT	n20	5180	Ant1	-3.25	0.15	-3.10	11	Pass
NVNT	n20	5200	Ant1	-1.66	0.15	-1.51	11	Pass
NVNT	n20	5240	Ant1	-1.83	0.15	-1.68	11	Pass
NVNT	n40	5190	Ant1	-5.77	0.29	-5.48	11	Pass
NVNT	n40	5230	Ant1	-5.36	0.29	-5.07	11	Pass
NVNT	ac20	5180	Ant1	-2.13	0.14	-1.99	11	Pass
NVNT	ac20	5200	Ant1	-2.1	0.14	-1.96	11	Pass
NVNT	ac20	5240	Ant1	-2.3	0.14	-2.16	11	Pass
NVNT	ac40	5190	Ant1	-5.65	0.28	-5.37	11	Pass
NVNT	ac40	5230	Ant1	-6.25	0.28	-5.97	11	Pass
NVNT	ac80	5210	Ant1	-10.37	0.55	-9.82	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	3.68	-3.10	4.51	11	Pass
NVNT	n20	5200	3.47	-1.51	4.67	11	Pass
NVNT	n20	5240	2.20	-1.68	3.69	11	Pass
NVNT	n40	5190	0.72	-5.48	1.65	11	Pass
NVNT	n40	5230	-1.32	-5.07	0.21	11	Pass
NVNT	ac20	5180	2.97	-1.99	4.17	11	Pass
NVNT	ac20	5200	2.95	-1.96	4.17	11	Pass
NVNT	ac20	5240	1.51	-2.16	3.06	11	Pass
NVNT	ac40	5190	0.41	-5.37	1.43	11	Pass
NVNT	ac40	5230	-0.96	-5.97	0.23	11	Pass
NVNT	ac80	5210	-3.80	-9.82	-2.83	11	Pass

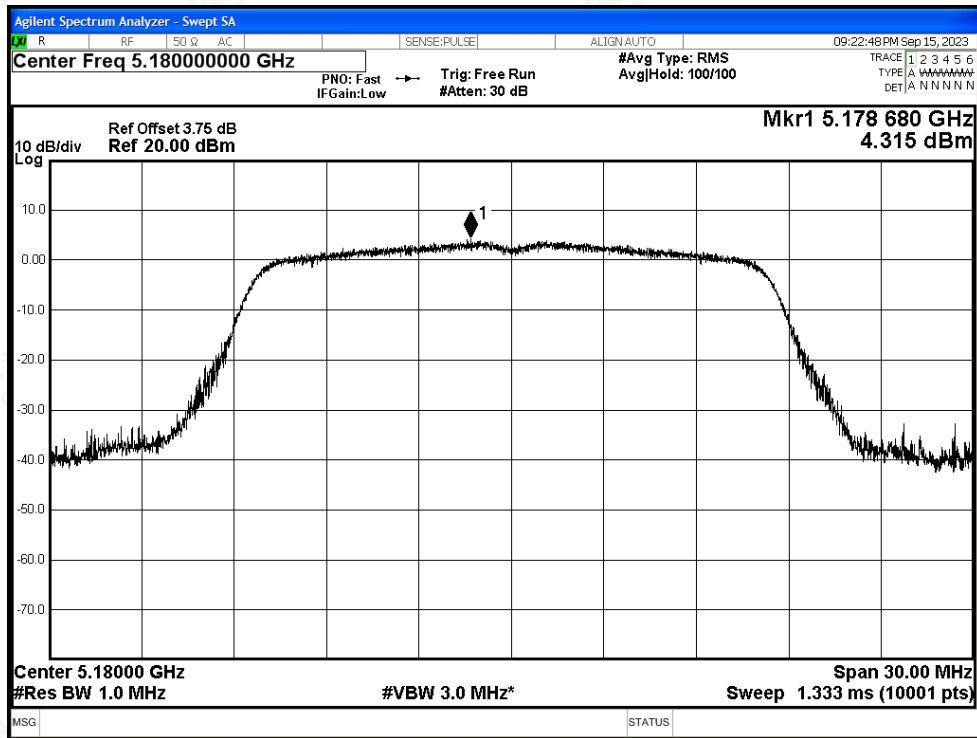


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

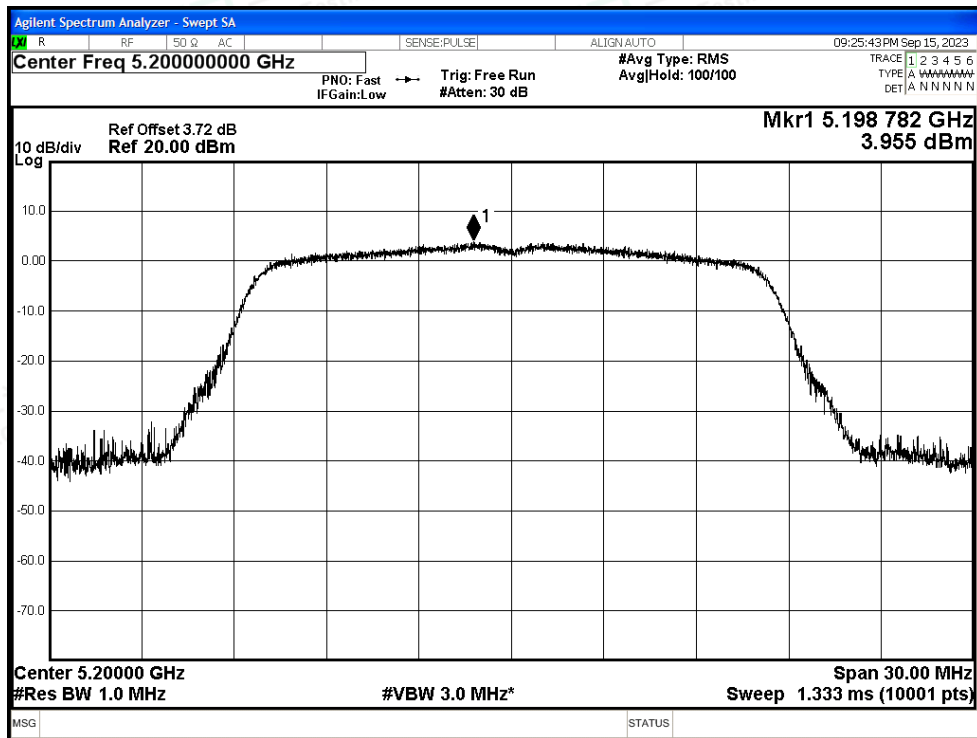


Test Graphs

PSD NVNT a 5180MHz Ant0

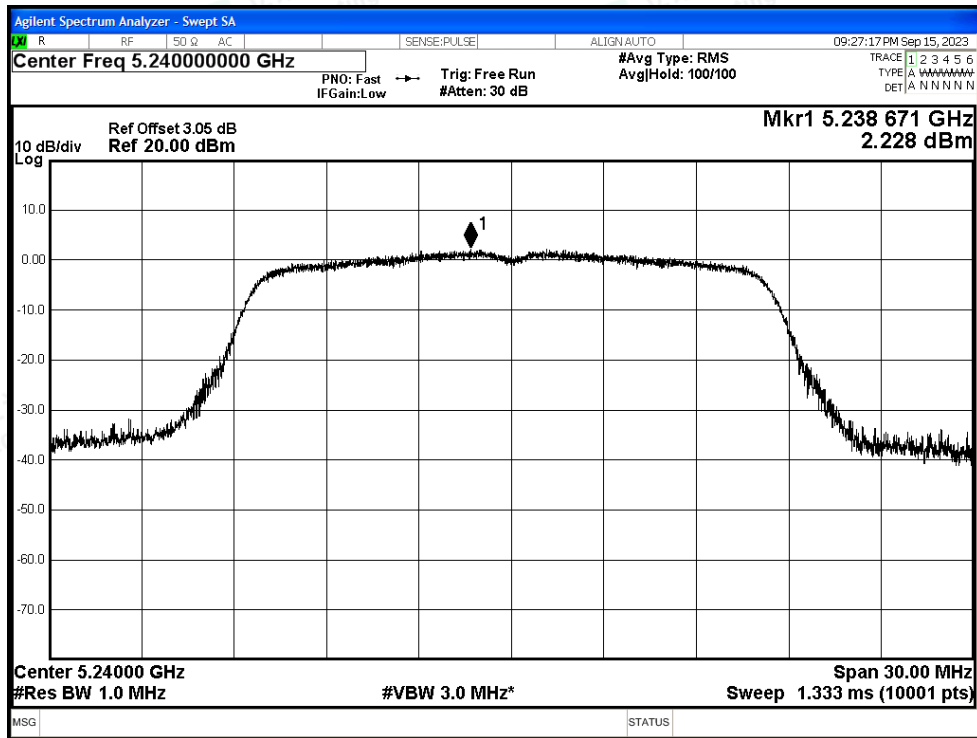


PSD NVNT a 5200MHz Ant0

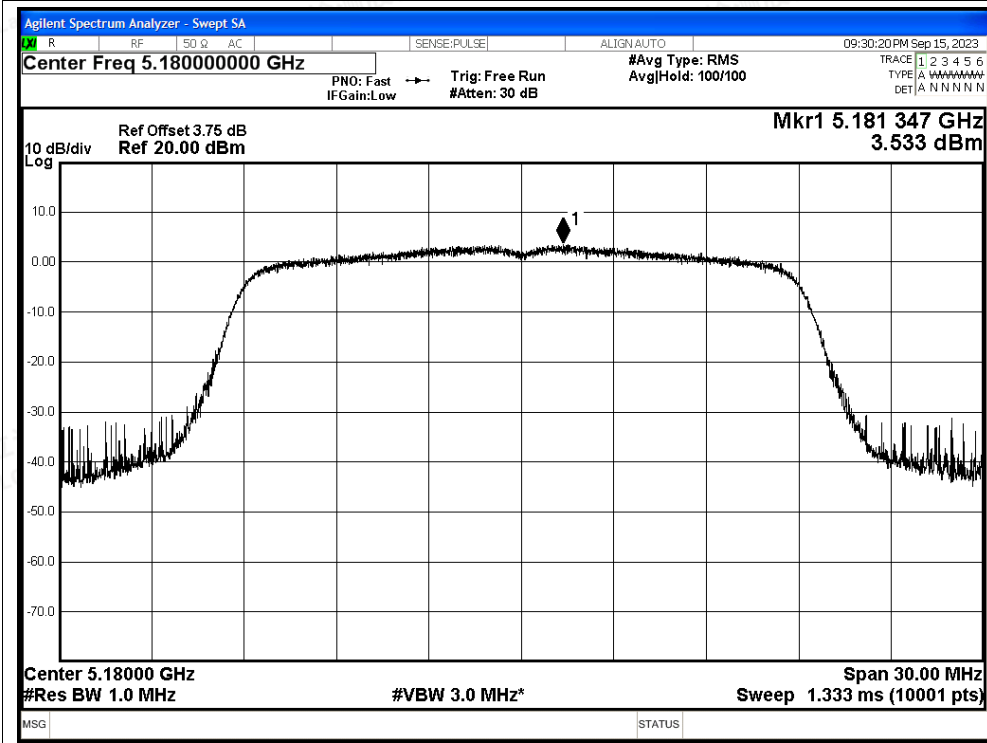


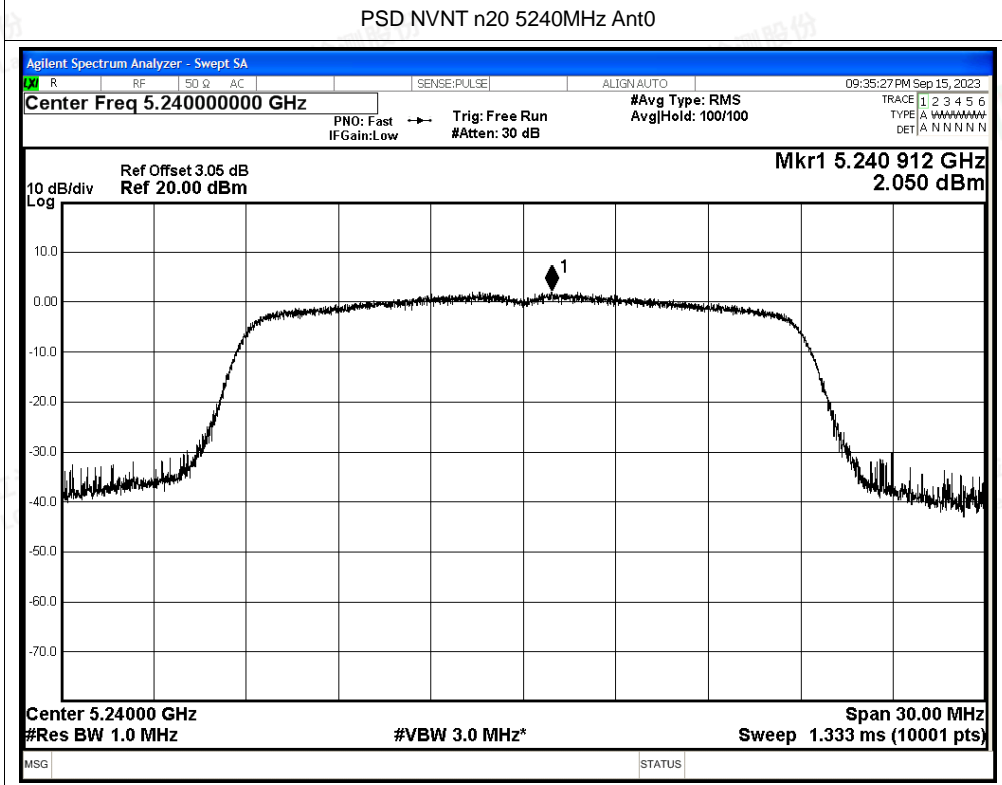
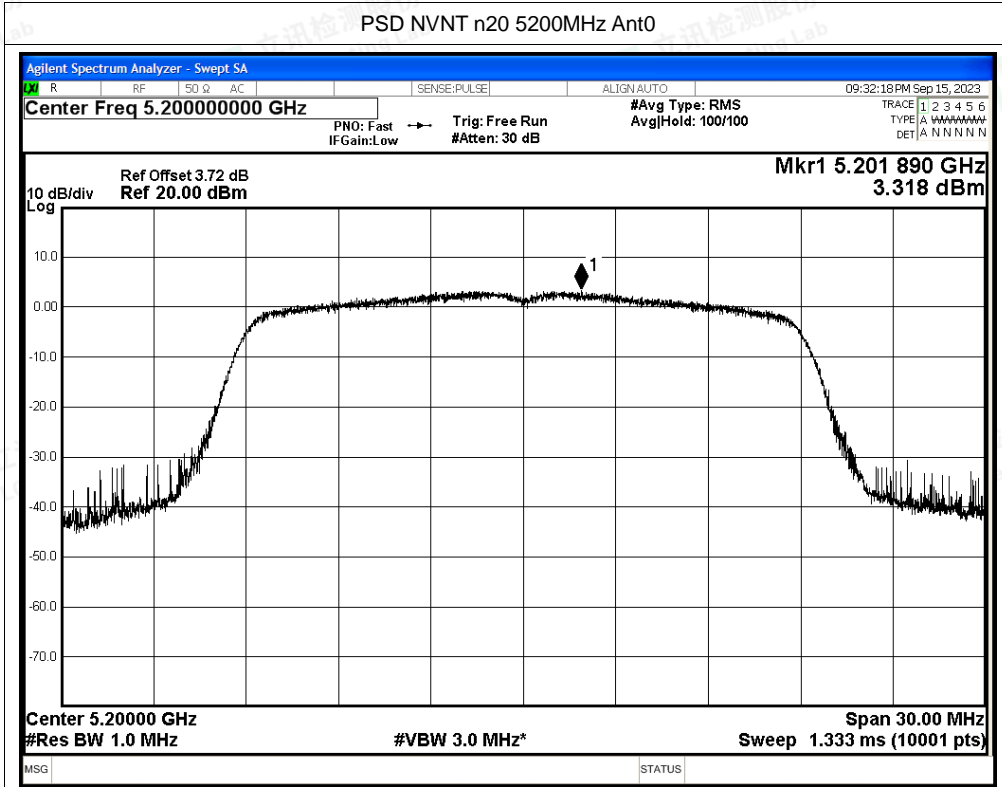


PSD NVNT a 5240MHz Ant0



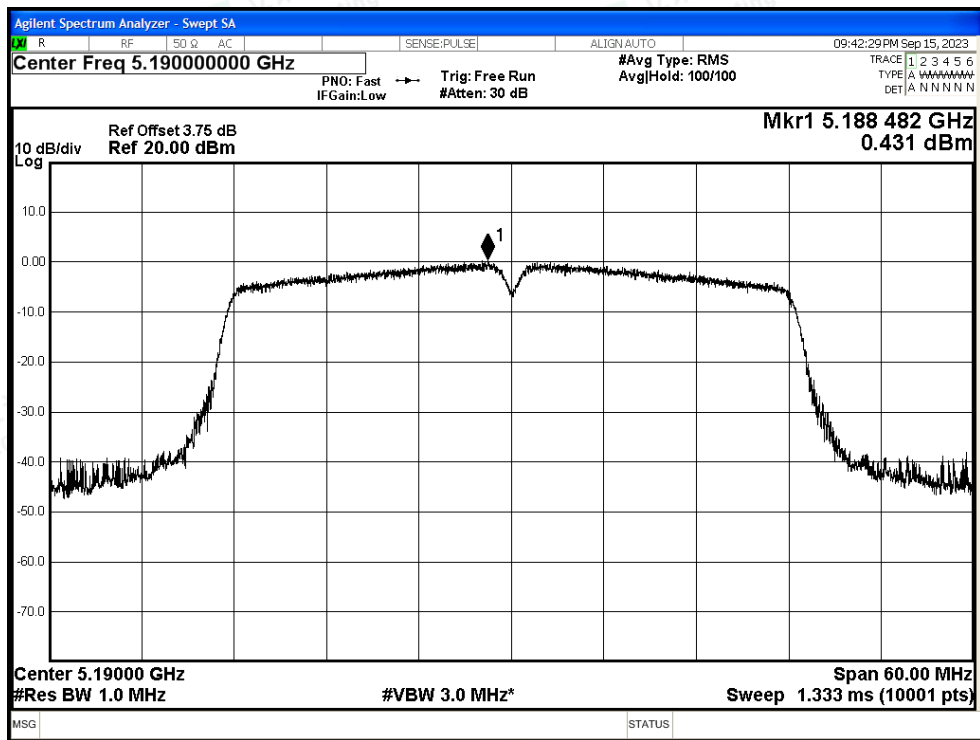
PSD NVNT n20 5180MHz Ant0



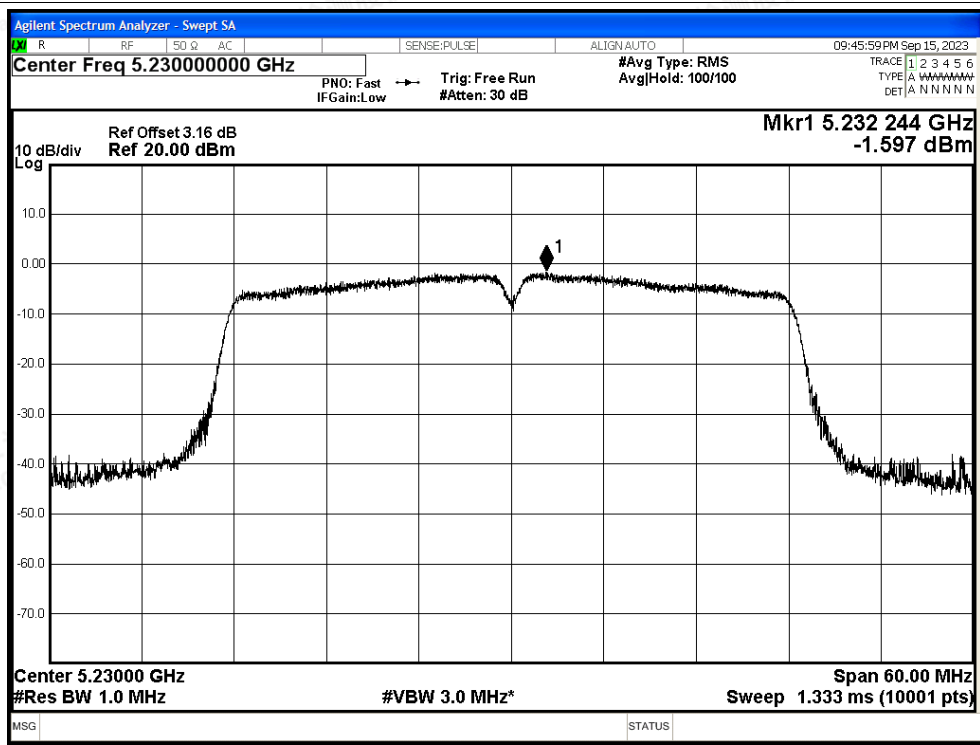


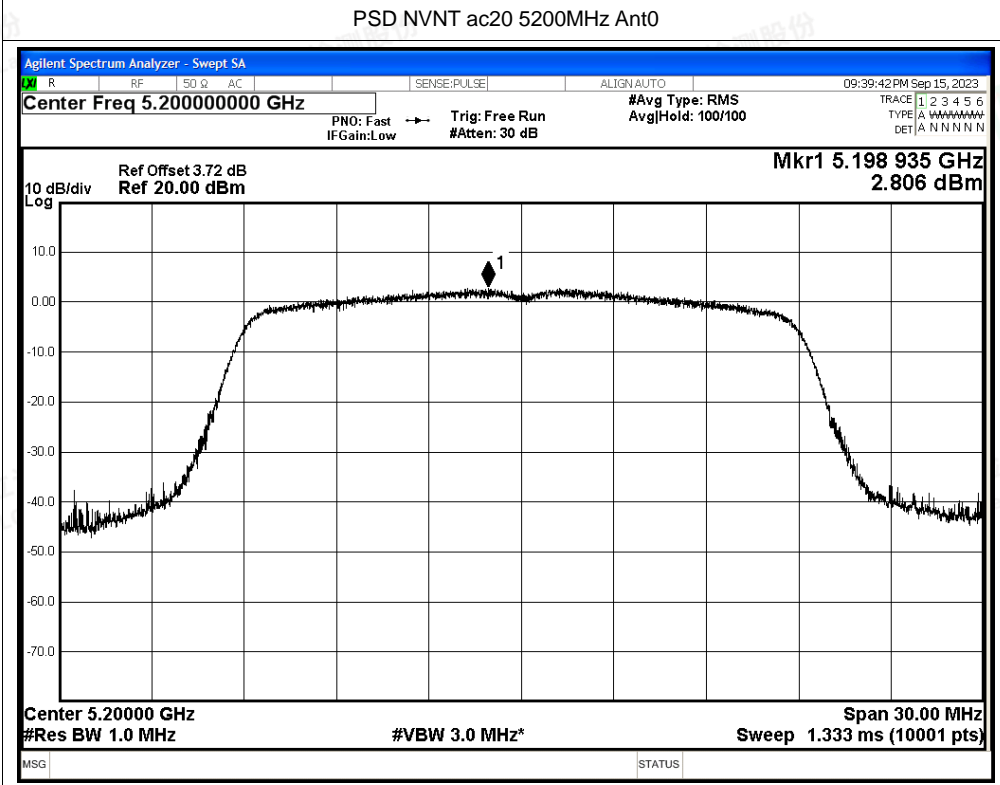
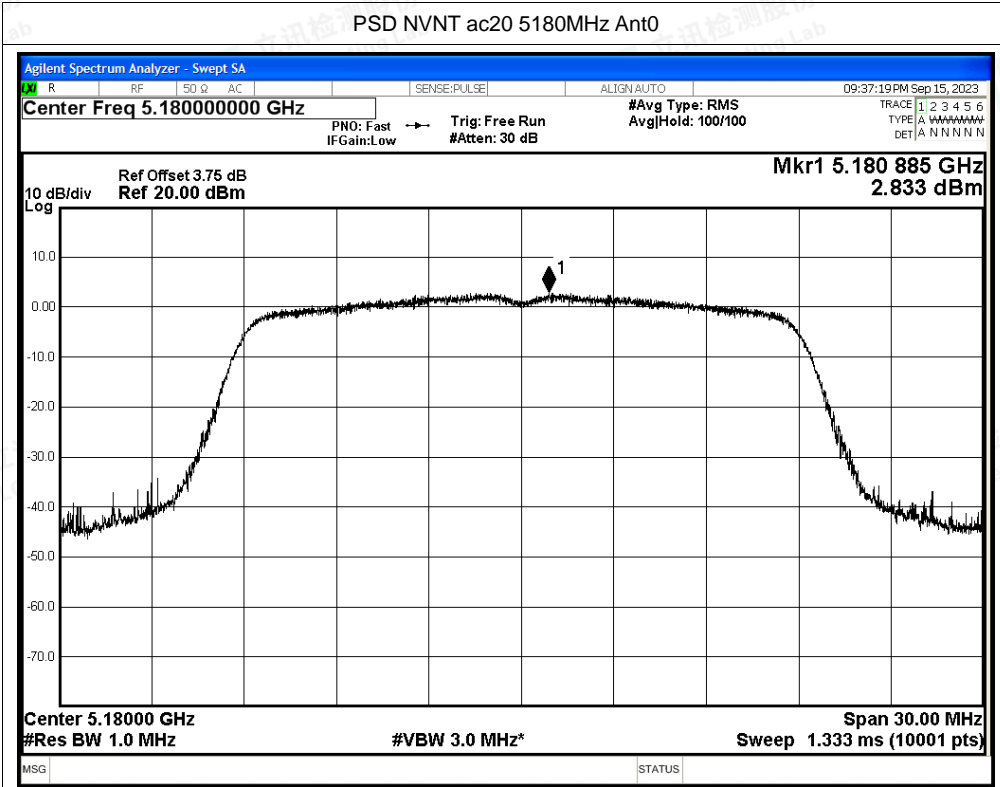


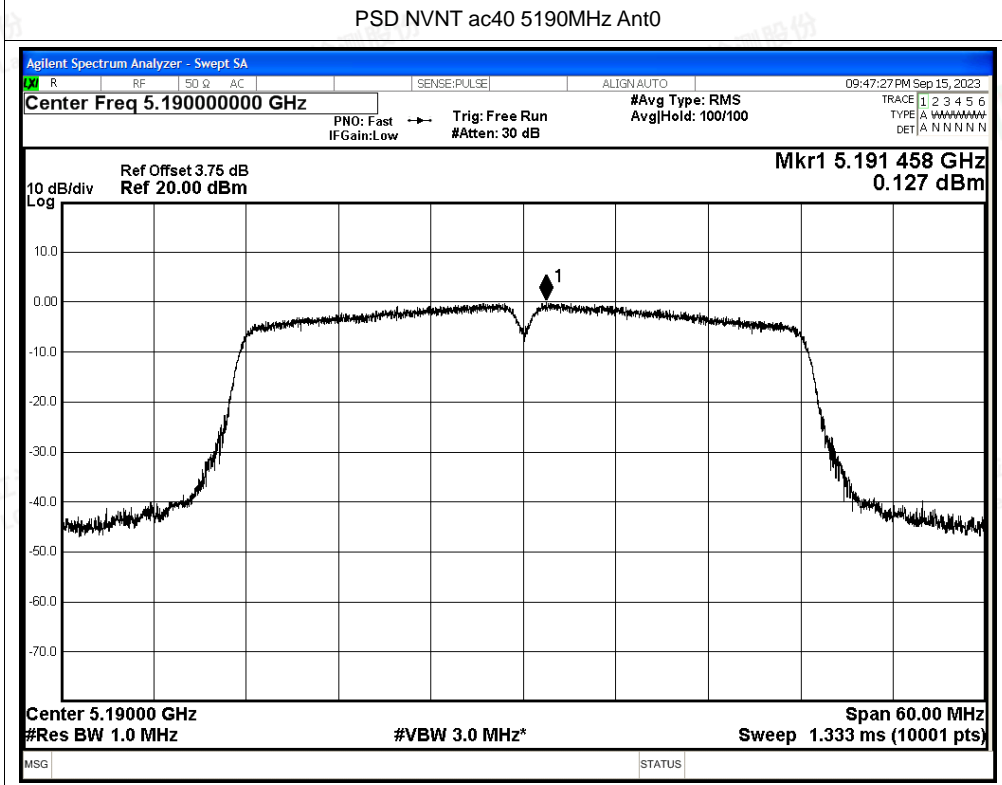
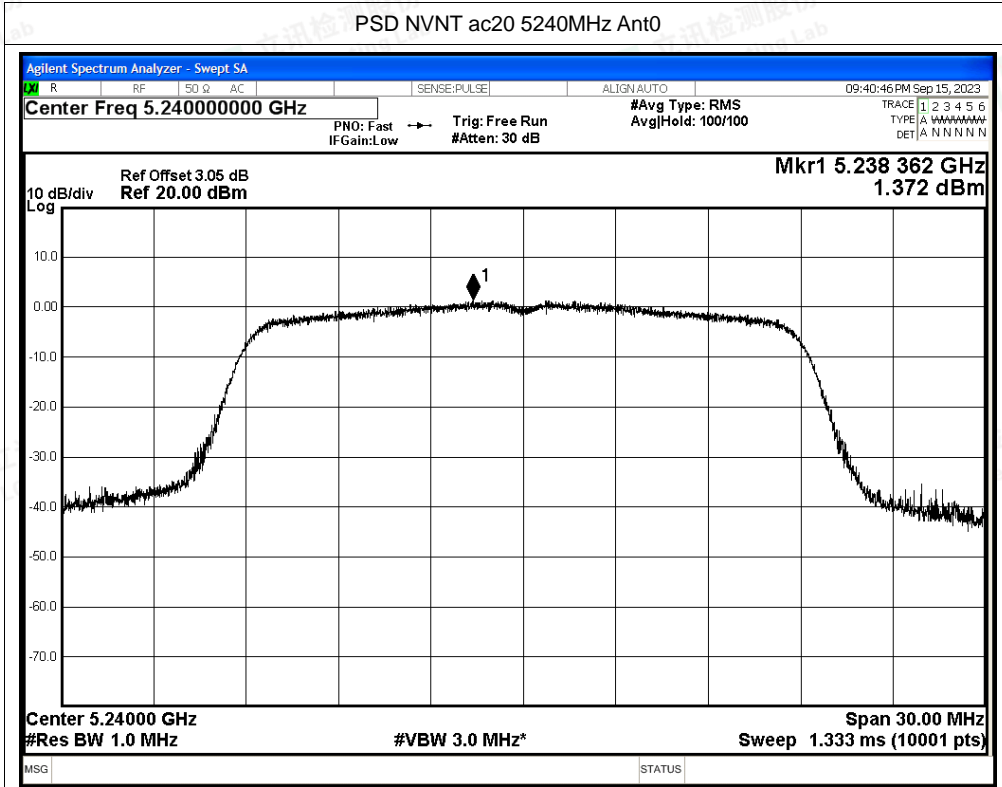
PSD NVNT n40 5190MHz Ant0

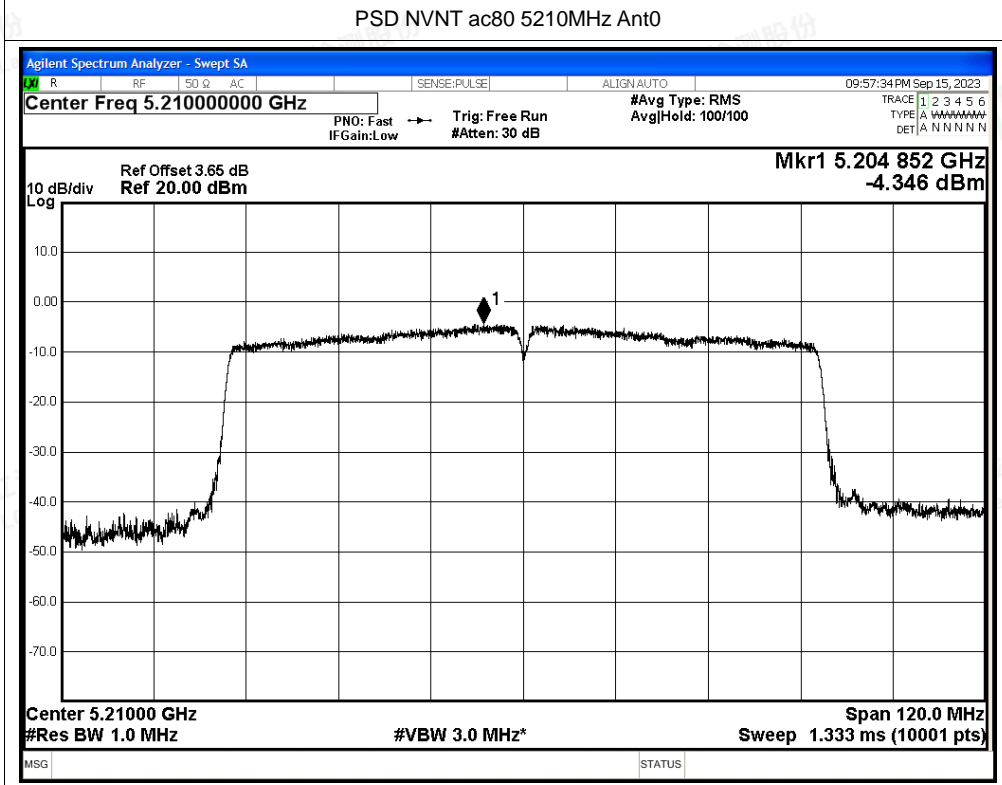
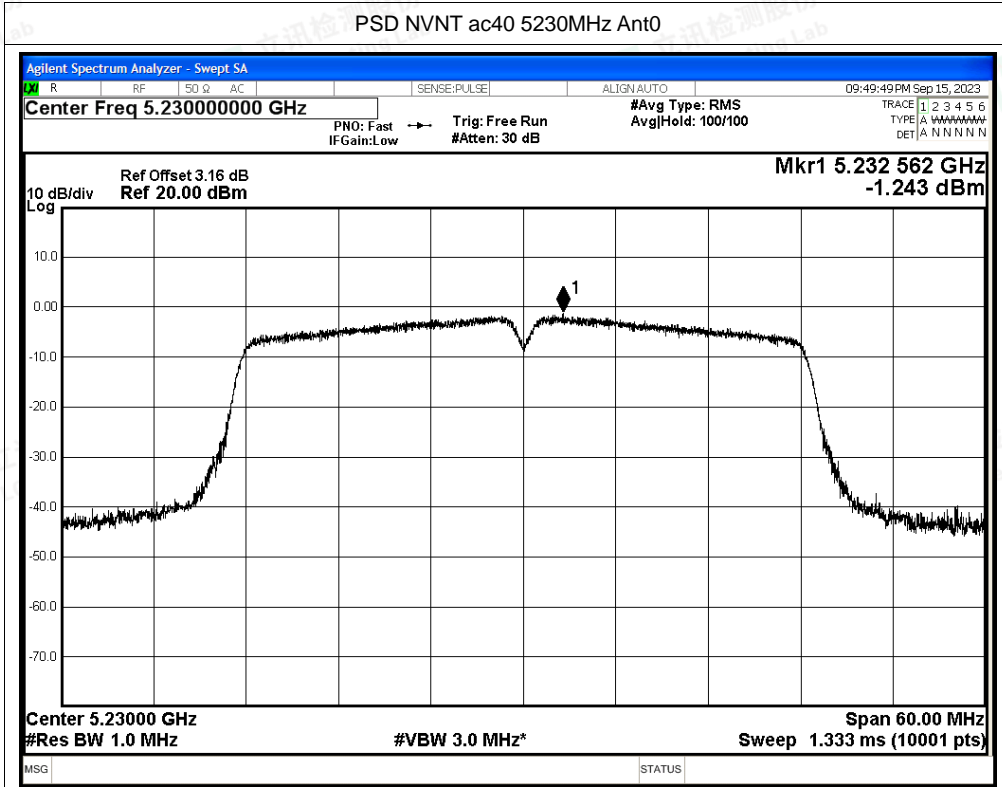


PSD NVNT n40 5230MHz Ant0





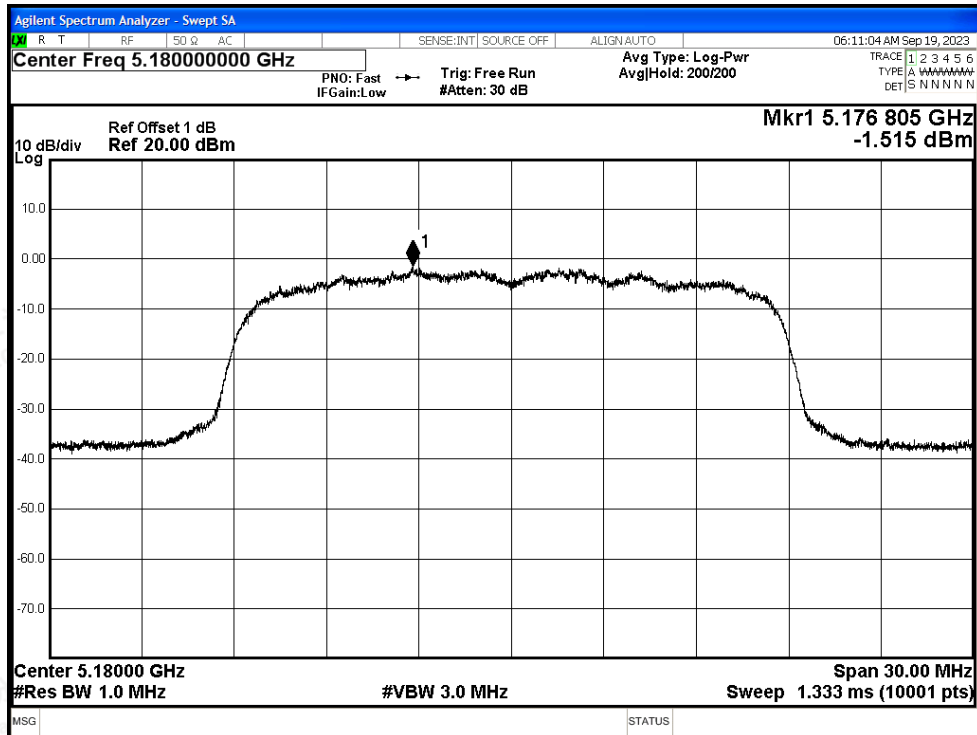




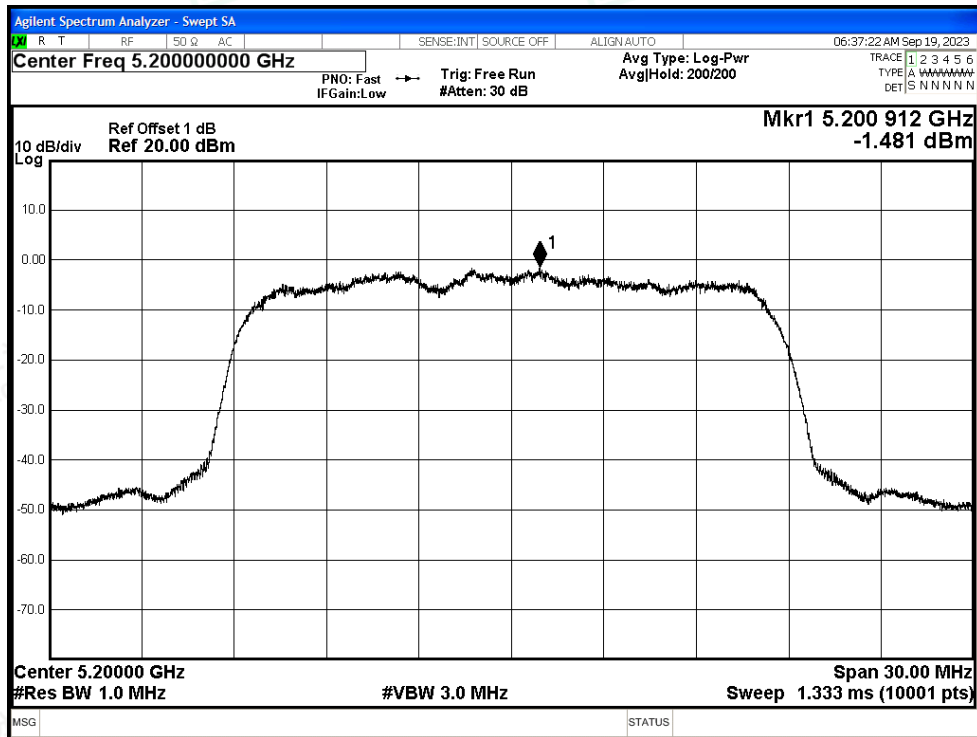


Test Graphs

PSD NVNT a 5180MHz Ant1

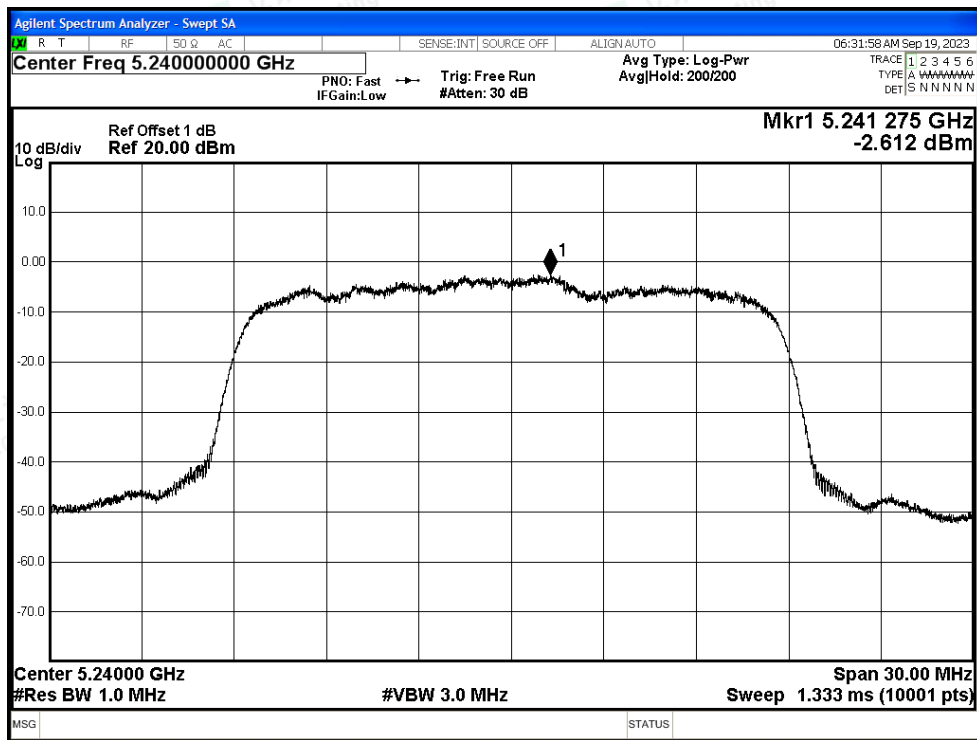


PSD NVNT a 5200MHz Ant1

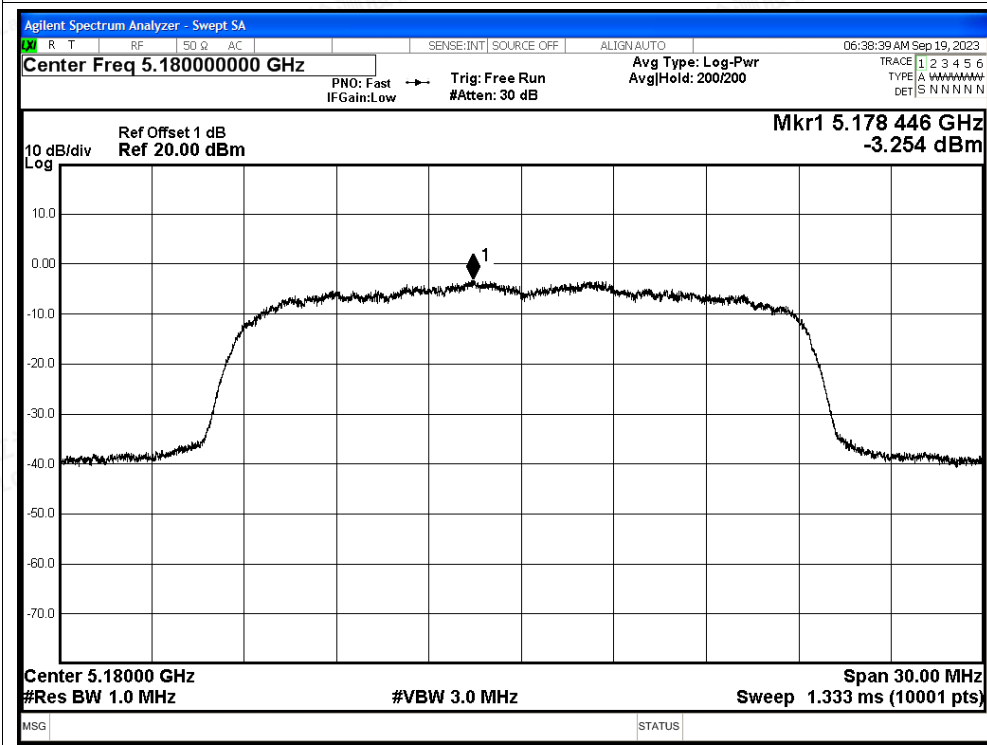


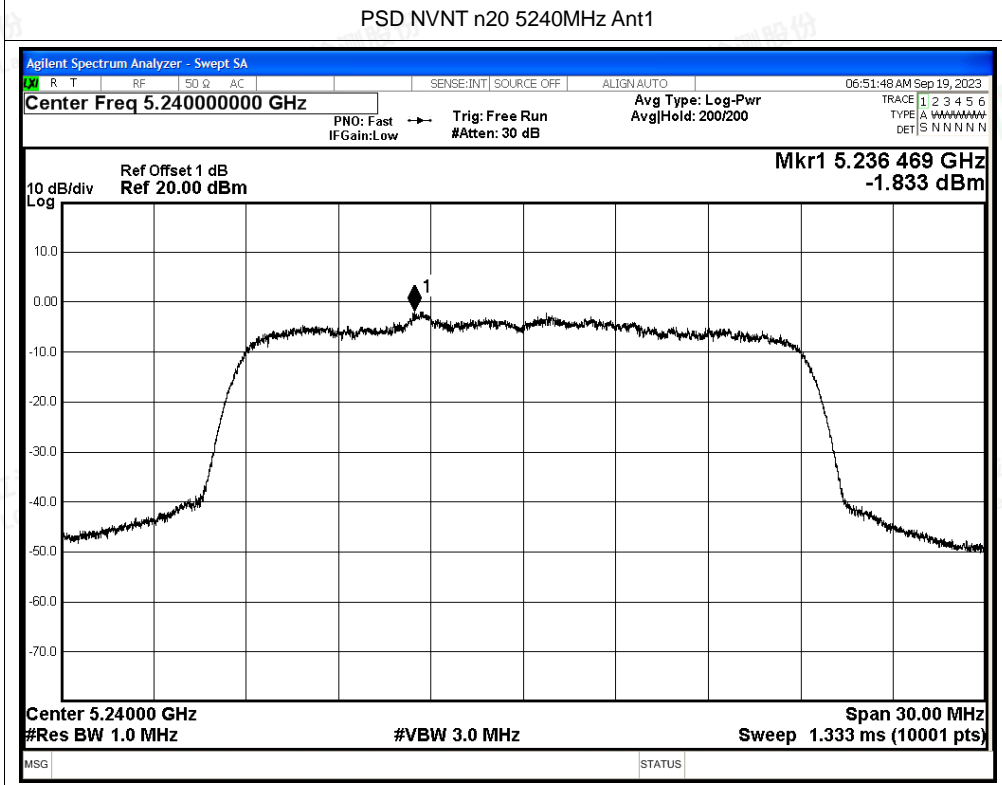
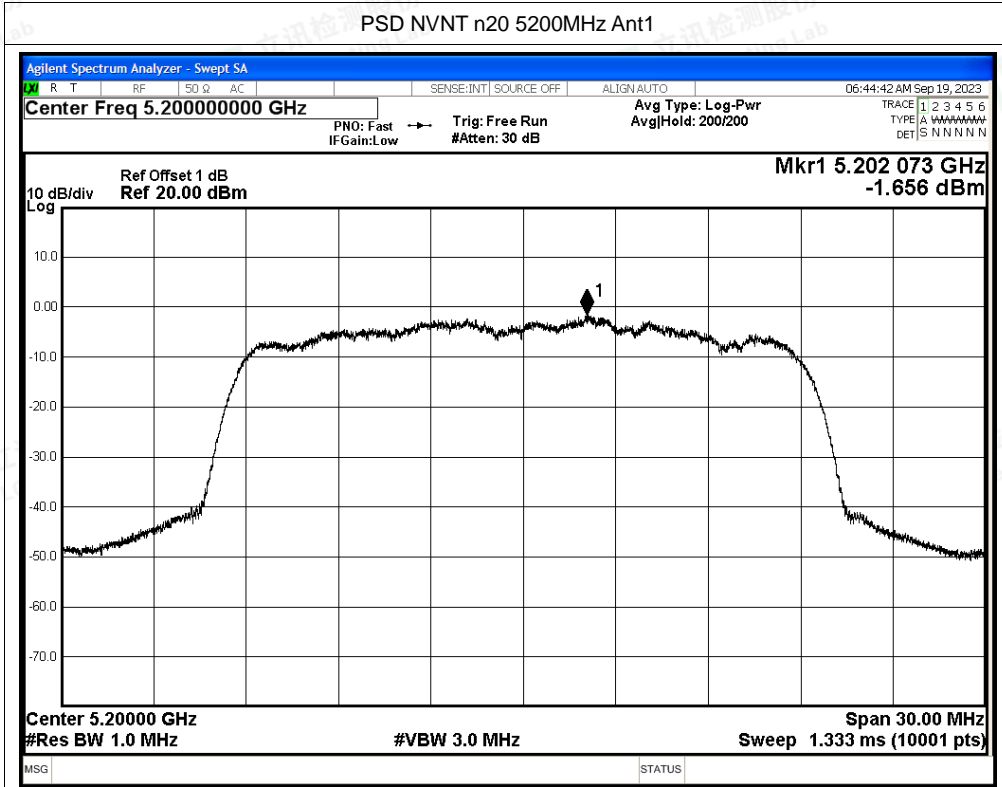


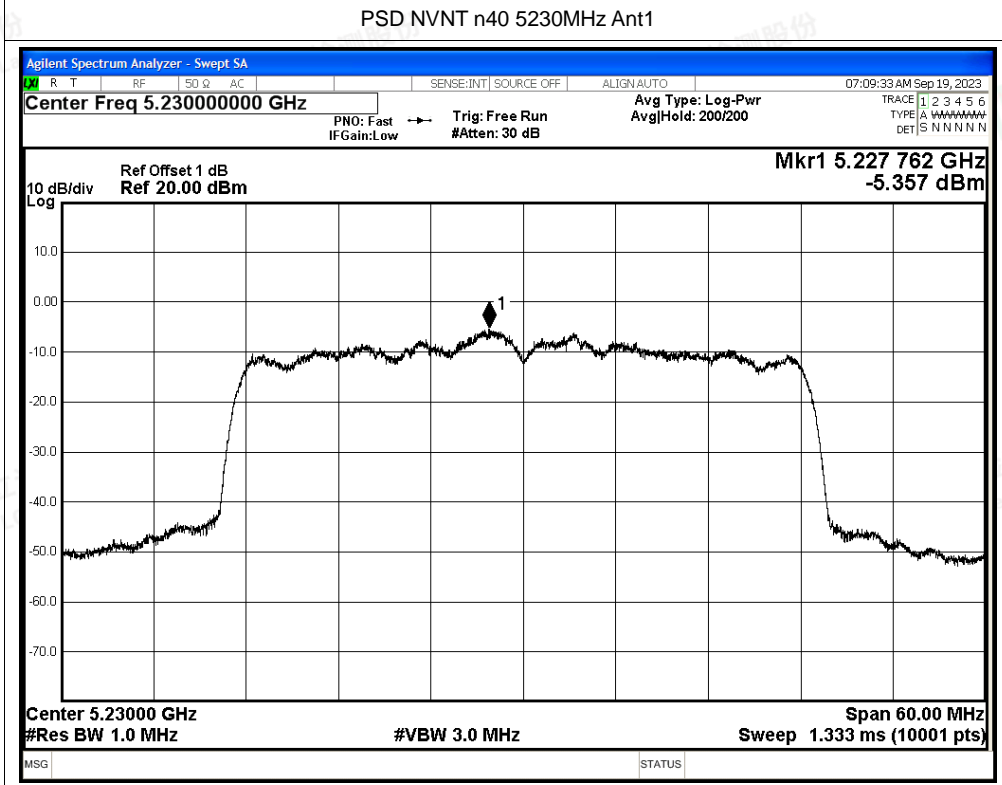
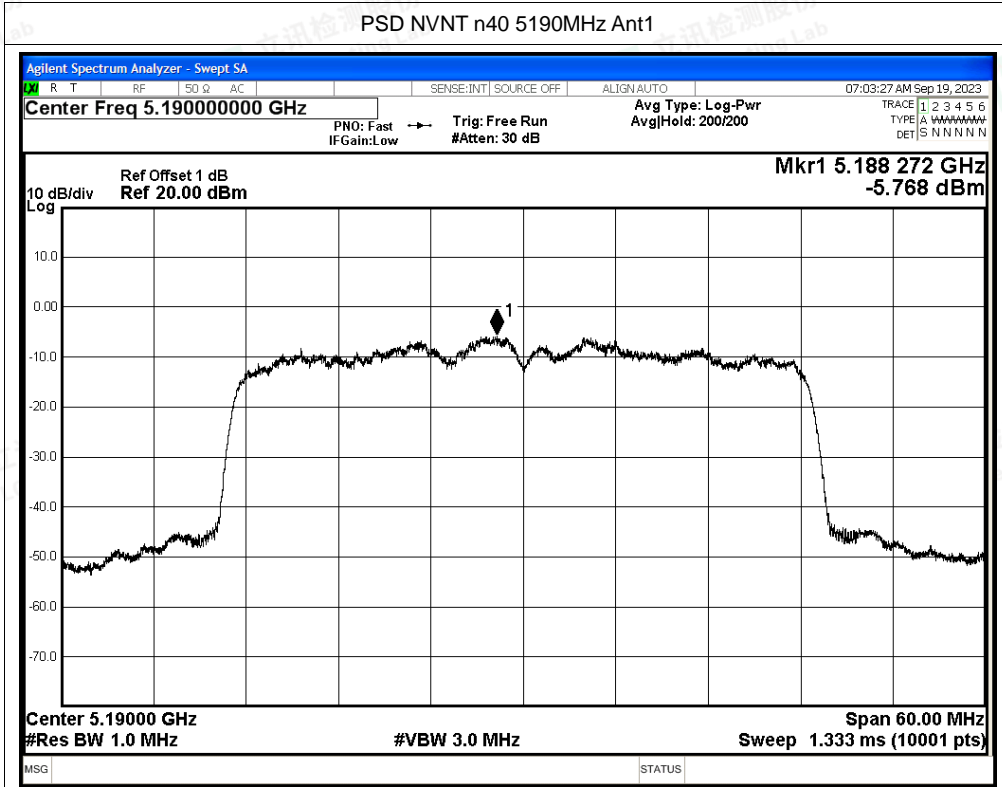
PSD NVNT a 5240MHz Ant1

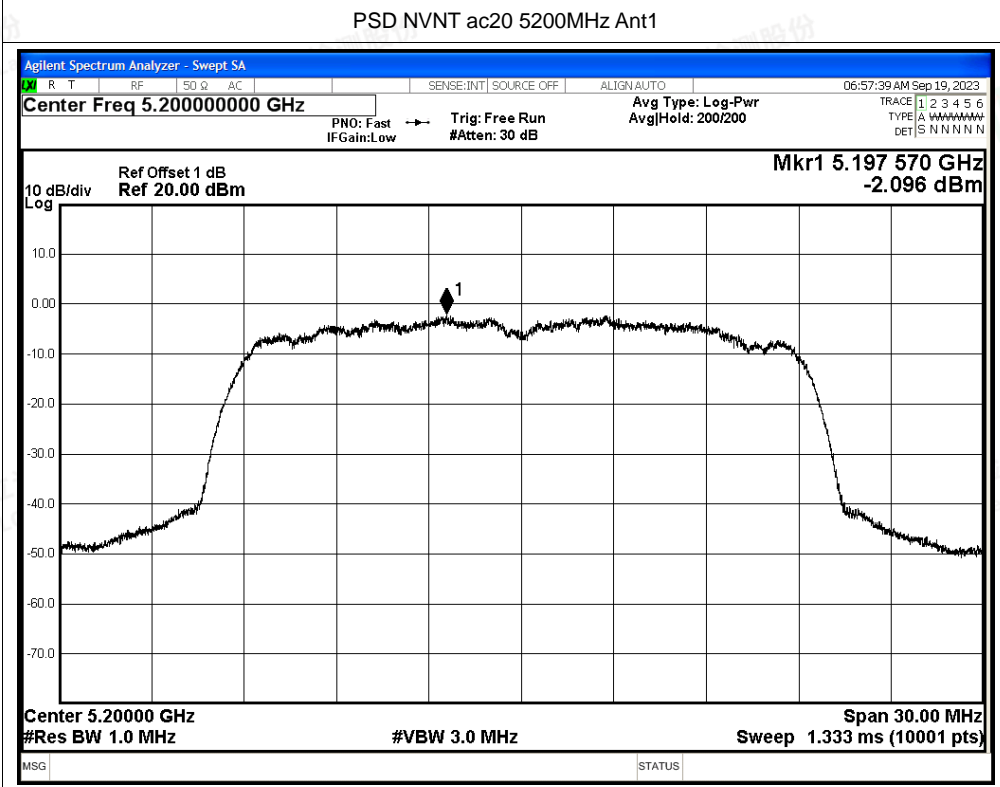
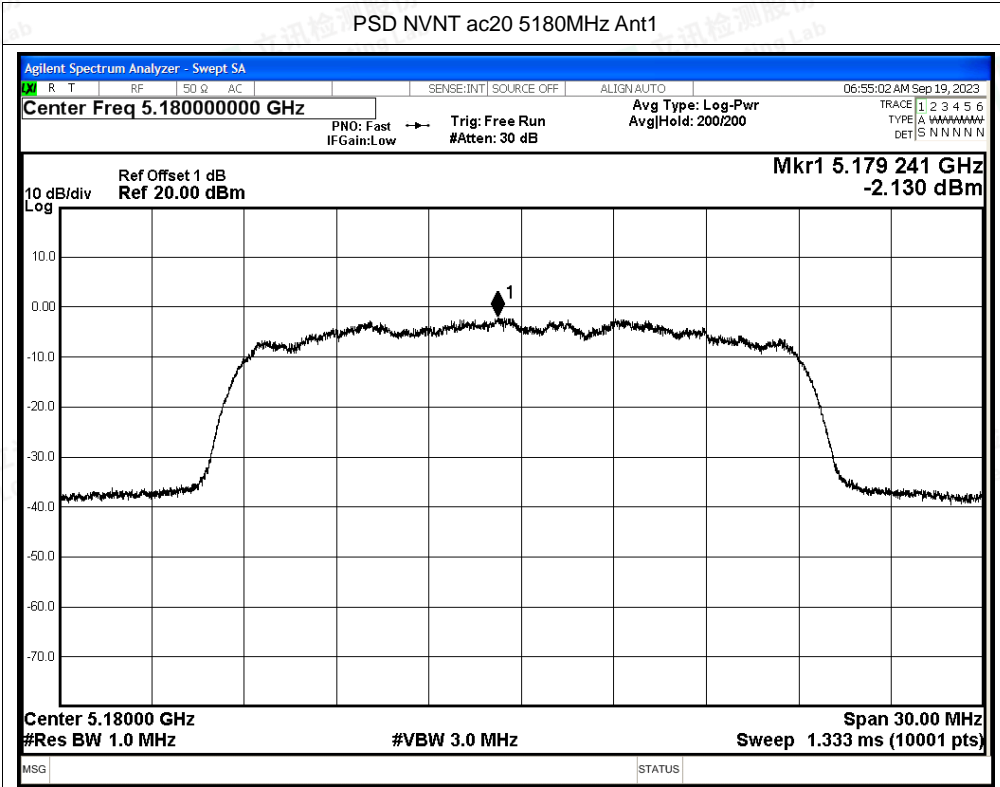


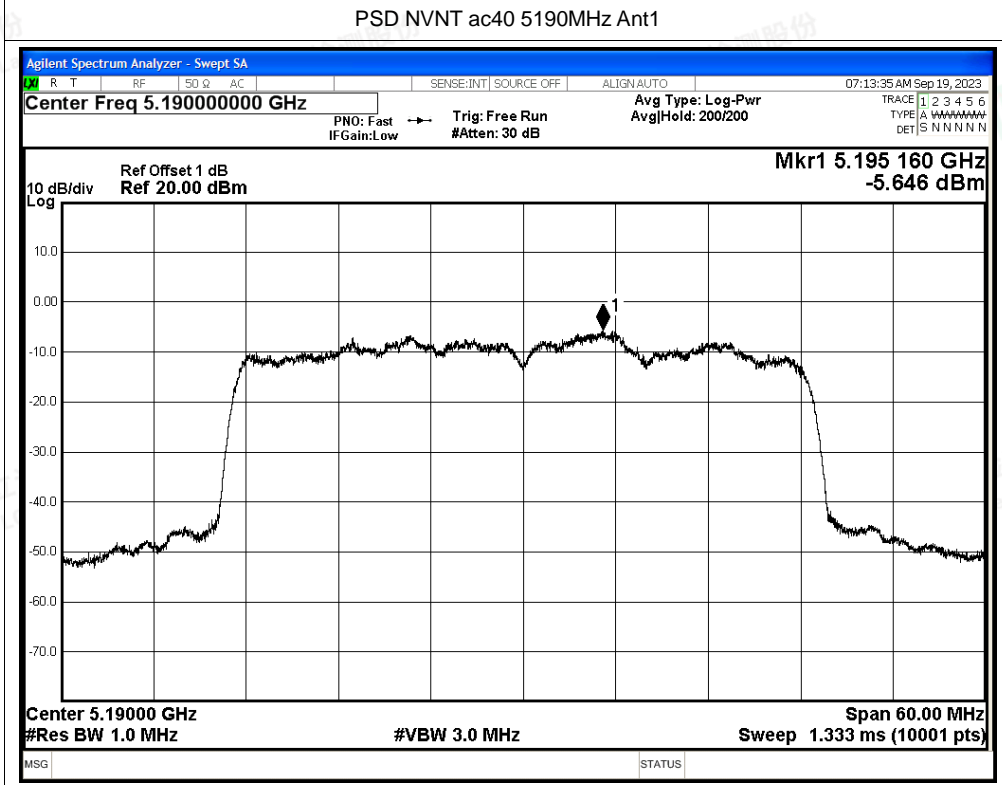
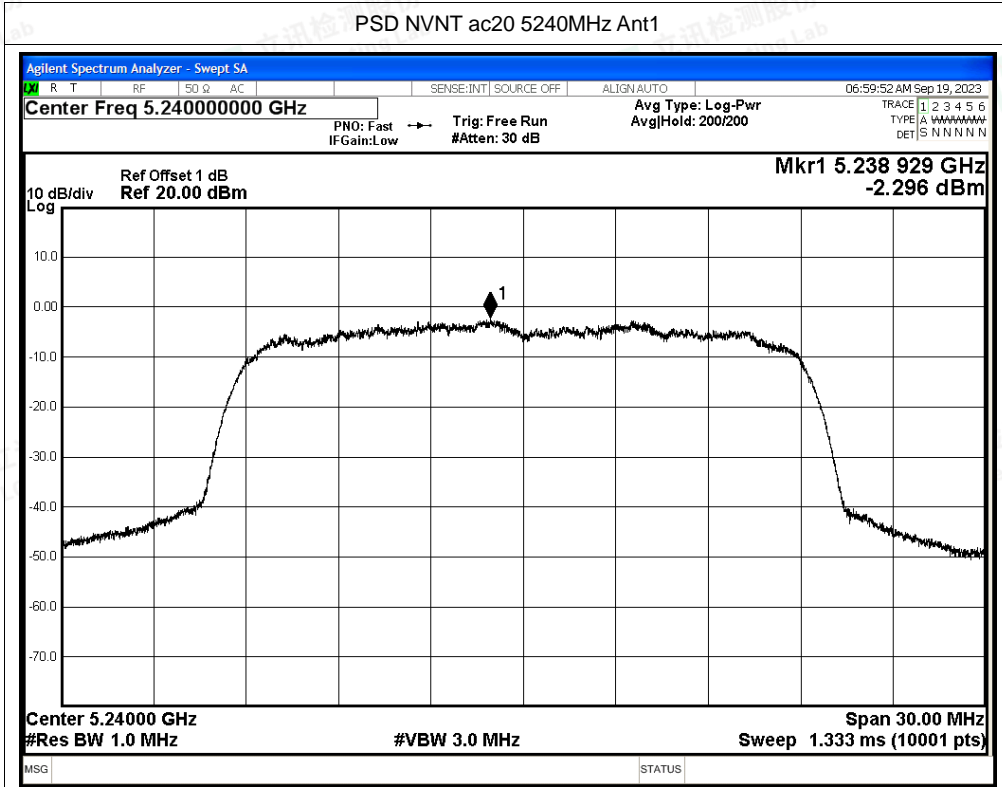
PSD NVNT n20 5180MHz Ant1

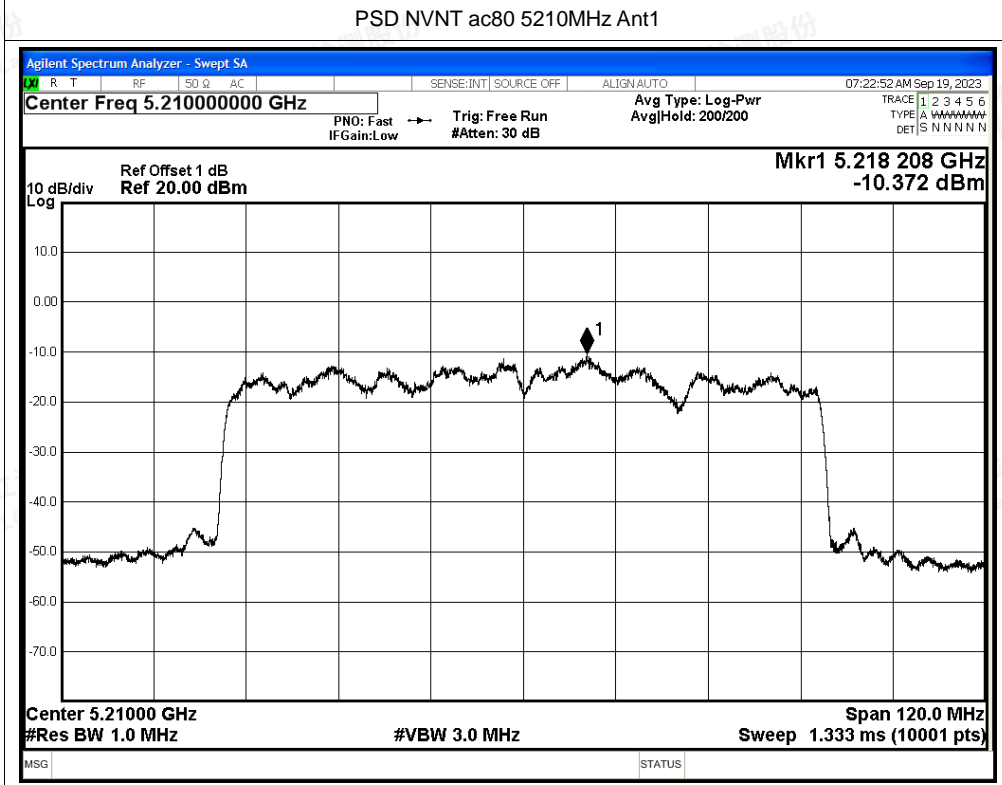
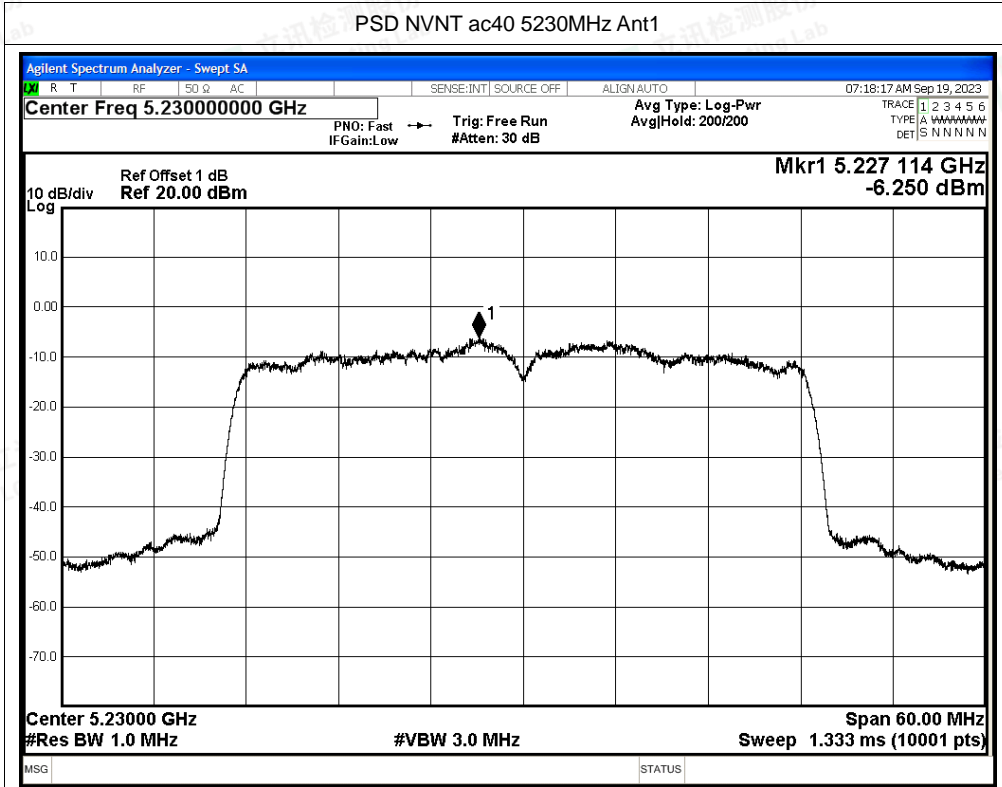














D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a-Ant0	5180	4500	-50.32	44.91	Peak	68.2	Pass
NVNT	a-Ant0	5180	4500	-57.11	38.12	Average	54	Pass
NVNT	a-Ant0	5180	5146.8	-32.8	62.43	Peak	68.2	Pass
NVNT	a-Ant0	5180	5149.6	-45.35	49.88	Average	54	Pass
NVNT	a-Ant0	5180	5150	-35.49	59.74	Peak	68.2	Pass
NVNT	a-Ant0	5180	5150	-45.02	50.21	Average	54	Pass
NVNT	a-Ant0	5240	5350	-46.69	48.54	Peak	68.2	Pass
NVNT	a-Ant0	5240	5350	-54.36	40.87	Average	54	Pass
NVNT	a-Ant0	5240	5360.16	-45.29	49.94	Peak	68.2	Pass
NVNT	a-Ant0	5240	5350.08	-54.36	40.87	Average	54	Pass
NVNT	a-Ant0	5240	5460	-49.6	45.63	Peak	68.2	Pass
NVNT	a-Ant0	5240	5460	-56.28	38.95	Average	54	Pass
NVNT	n20-mimo	5180	4500	-50.1	45.13	Peak	68.2	Pass
NVNT	n20-mimo	5180	4500	-57.02	38.21	Average	54	Pass
NVNT	n20-mimo	5180	5146.8	-39.17	56.06	Peak	68.2	Pass
NVNT	n20-mimo	5180	5147.5	-52.42	42.81	Average	54	Pass
NVNT	n20-mimo	5180	5150	-38.01	57.22	Peak	68.2	Pass
NVNT	n20-mimo	5180	5150	-52.36	42.87	Average	54	Pass
NVNT	n20-mimo	5240	5350	-48.5	46.73	Peak	68.2	Pass
NVNT	n20-mimo	5240	5350	-54.46	40.77	Average	54	Pass
NVNT	n20-mimo	5240	5351.52	-43.91	51.32	Peak	68.2	Pass
NVNT	n20-mimo	5240	5353.2	-54.29	40.94	Average	54	Pass
NVNT	n20-mimo	5240	5460	-48.7	46.53	Peak	68.2	Pass
NVNT	n20-mimo	5240	5460	-56.33	38.90	Average	54	Pass
NVNT	n40-mimo	5190	4500	-49.45	45.78	Peak	68.2	Pass
NVNT	n40-mimo	5190	4500	-56.79	38.44	Average	54	Pass
NVNT	n40-mimo	5190	5112.47	-44.87	50.36	Peak	68.2	Pass
NVNT	n40-mimo	5190	5149.7	-53.35	41.88	Average	54	Pass
NVNT	n40-mimo	5190	5150	-45.35	49.88	Peak	68.2	Pass
NVNT	n40-mimo	5190	5150	-53.35	41.88	Average	54	Pass
NVNT	n40-mimo	5230	5350	-46.08	49.15	Peak	68.2	Pass
NVNT	n40-mimo	5230	5350	-54.15	41.08	Average	54	Pass
NVNT	n40-mimo	5230	5355.78	-44.28	50.95	Peak	68.2	Pass
NVNT	n40-mimo	5230	5354.43	-53.95	41.28	Average	54	Pass
NVNT	n40-mimo	5230	5460	-48.17	47.06	Peak	68.2	Pass
NVNT	n40-mimo	5230	5460	-55.84	39.39	Average	54	Pass
NVNT	ac20-mimo	5180	4500	-50.33	44.90	Peak	68.2	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



NVNT	ac20-mimo	5180	4500	-57.02	38.21	Average	54	Pass
NVNT	ac20-mimo	5180	5148.9	-35.02	60.21	Peak	68.2	Pass
NVNT	ac20-mimo	5180	5148.9	-47.47	47.76	Average	54	Pass
NVNT	ac20-mimo	5180	5150	-43.25	51.98	Peak	68.2	Pass
NVNT	ac20-mimo	5180	5150	-46.41	48.82	Average	54	Pass
NVNT	ac20-mimo	5240	5350	-46.73	48.50	Peak	68.2	Pass
NVNT	ac20-mimo	5240	5350	-54.55	40.68	Average	54	Pass
NVNT	ac20-mimo	5240	5355.36	-44.83	50.40	Peak	68.2	Pass
NVNT	ac20-mimo	5240	5350.32	-54.3	40.93	Average	54	Pass
NVNT	ac20-mimo	5240	5460	-48.22	47.01	Peak	68.2	Pass
NVNT	ac20-mimo	5240	5460	-56.23	39.00	Average	54	Pass
NVNT	ac40-mimo	5190	4500	-50.91	44.32	Peak	68.2	Pass
NVNT	ac40-mimo	5190	4500	-56.61	38.62	Average	54	Pass
NVNT	ac40-mimo	5190	5148.97	-30.9	64.33	Peak	68.2	Pass
NVNT	ac40-mimo	5190	5149.7	-43.52	51.71	Average	54	Pass
NVNT	ac40-mimo	5190	5150	-31.58	63.65	Peak	68.2	Pass
NVNT	ac40-mimo	5190	5150	-43.52	51.71	Average	54	Pass
NVNT	ac40-mimo	5230	5350	-45.96	49.27	Peak	68.2	Pass
NVNT	ac40-mimo	5230	5350	-54.02	41.21	Average	54	Pass
NVNT	ac40-mimo	5230	5352.54	-44.86	50.37	Peak	68.2	Pass
NVNT	ac40-mimo	5230	5353.35	-53.85	41.38	Average	54	Pass
NVNT	ac40-mimo	5230	5460	-48.69	46.54	Peak	68.2	Pass
NVNT	ac40-mimo	5230	5460	-56	39.23	Average	54	Pass
NVNT	ac80-mimo	5210	5350	-41.7	53.53	Peak	68.2	Pass
NVNT	ac80-mimo	5210	5350	-50.01	45.22	Average	54	Pass
NVNT	ac80-mimo	5210	5364.96	-38.26	56.97	Peak	68.2	Pass
NVNT	ac80-mimo	5210	5350.77	-49.21	46.02	Average	54	Pass
NVNT	ac80-mimo	5210	5460	-47.23	48.00	Peak	68.2	Pass
NVNT	ac80-mimo	5210	5460	-55.11	40.12	Average	54	Pass
NVNT	ac80-mimo	5210	4500	-49.63	45.60	Peak	68.2	Pass
NVNT	ac80-mimo	5210	4500	-56.73	38.50	Average	54	Pass
NVNT	ac80-mimo	5210	5145.43	-44.8	50.43	Peak	68.2	Pass
NVNT	ac80-mimo	5210	5149.38	-51.38	43.85	Average	54	Pass
NVNT	ac80-mimo	5210	5150	-44.57	50.66	Peak	68.2	Pass
NVNT	ac80-mimo	5210	5150	-51.33	43.90	Average	54	Pass

Note: 1) ant 0 and ant1 have been tested and recorded worst ant0(for a mode) in the report.

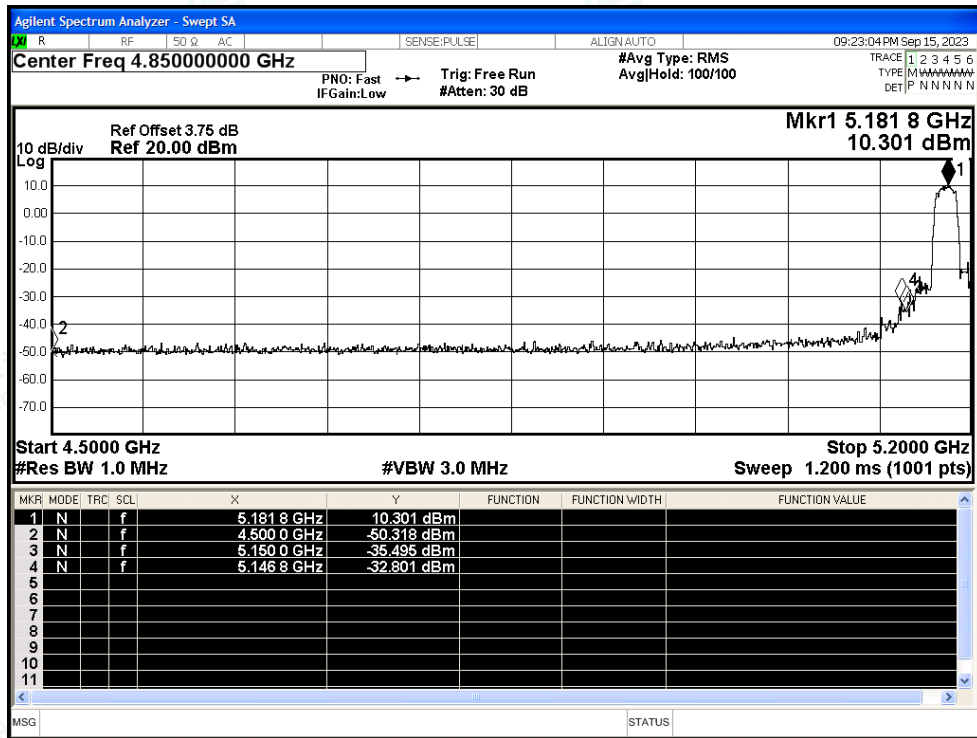
2) The Antenna Gain is compensated in the graph



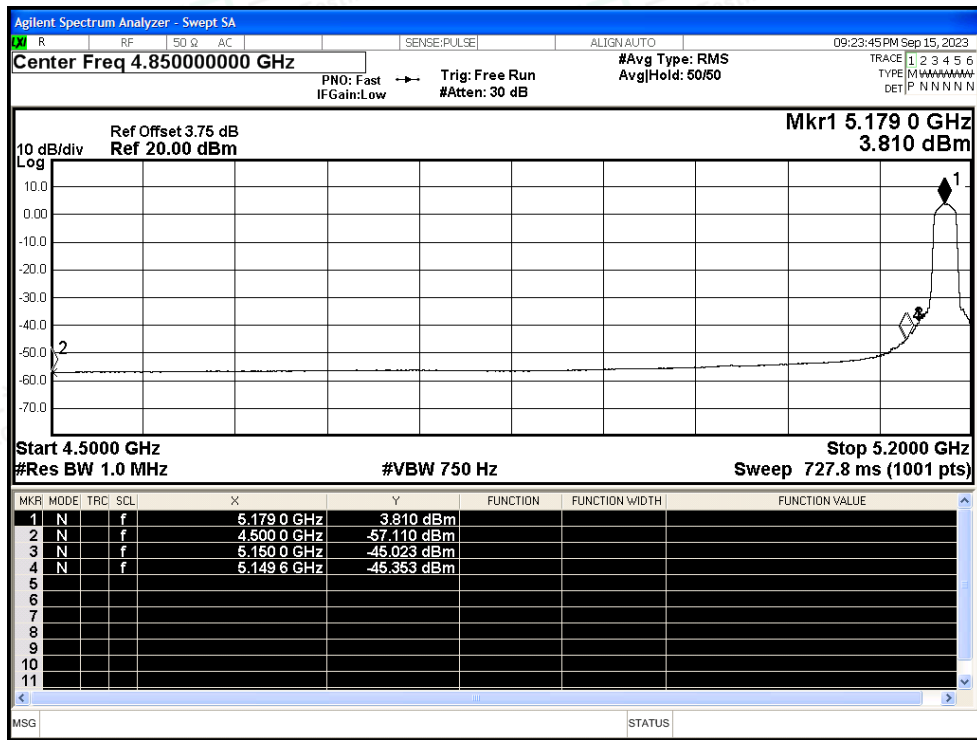


Test Graphs

Restrict Band NVNT a 5180MHz Ant0 Peak

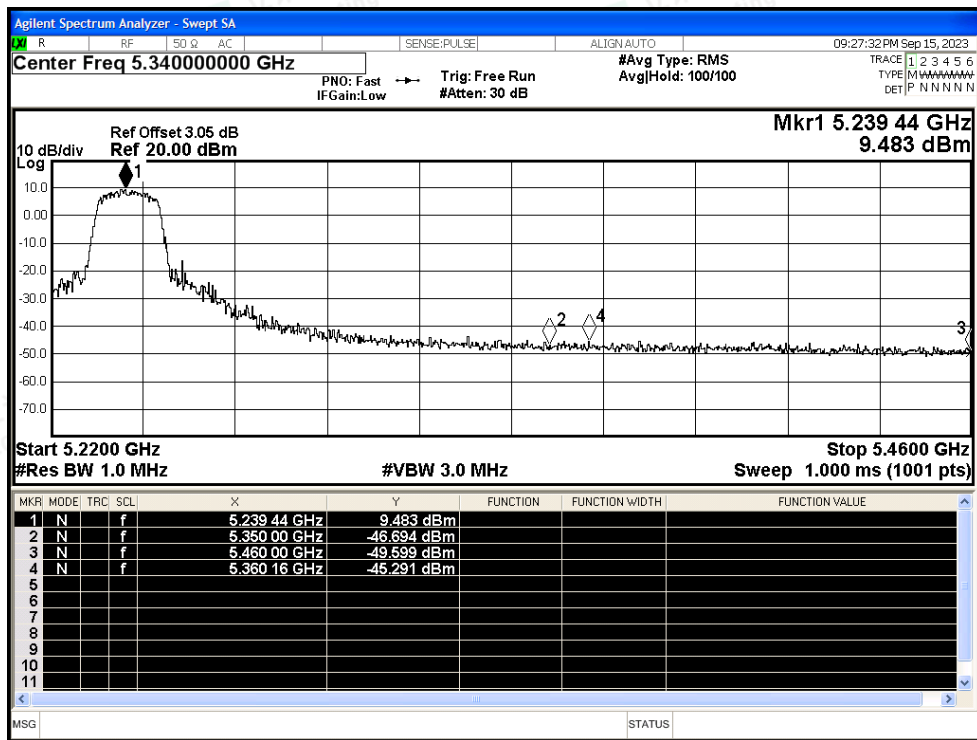


Restrict Band NVNT a 5180MHz Ant0 Average

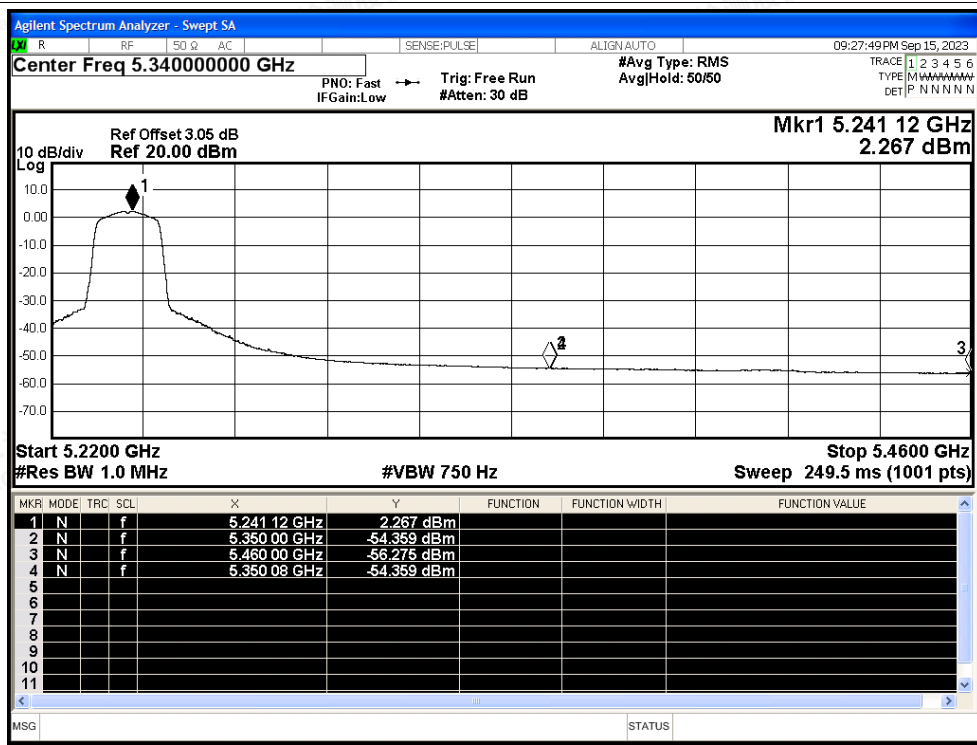




Restrict Band NVNT a 5240MHz Ant0 Peak

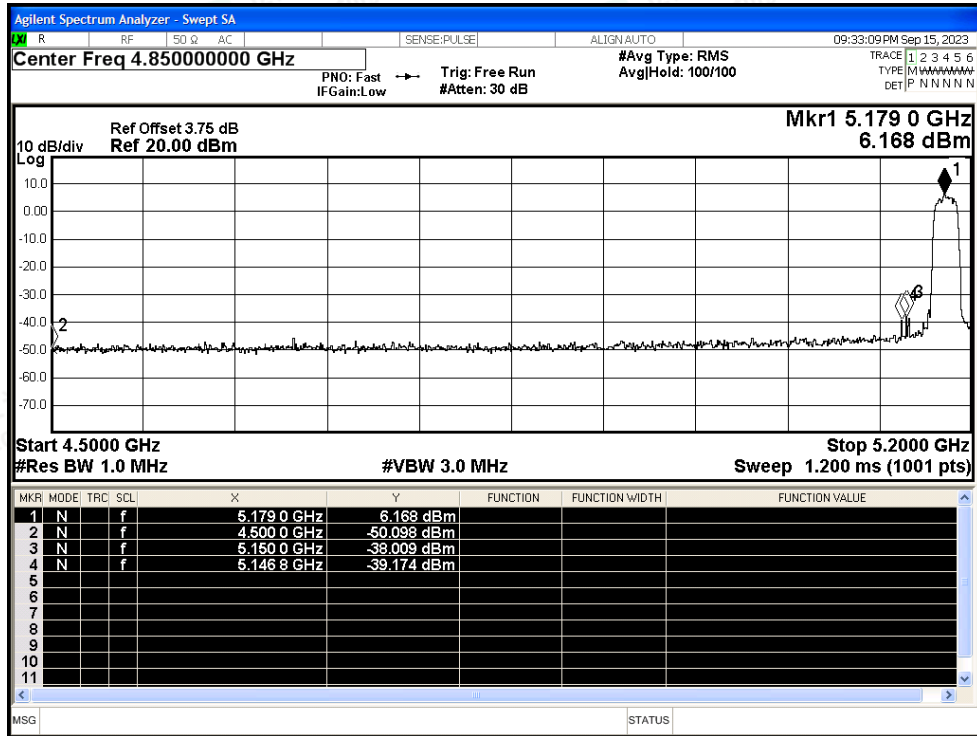


Restrict Band NVNT a 5240MHz Ant0 Average

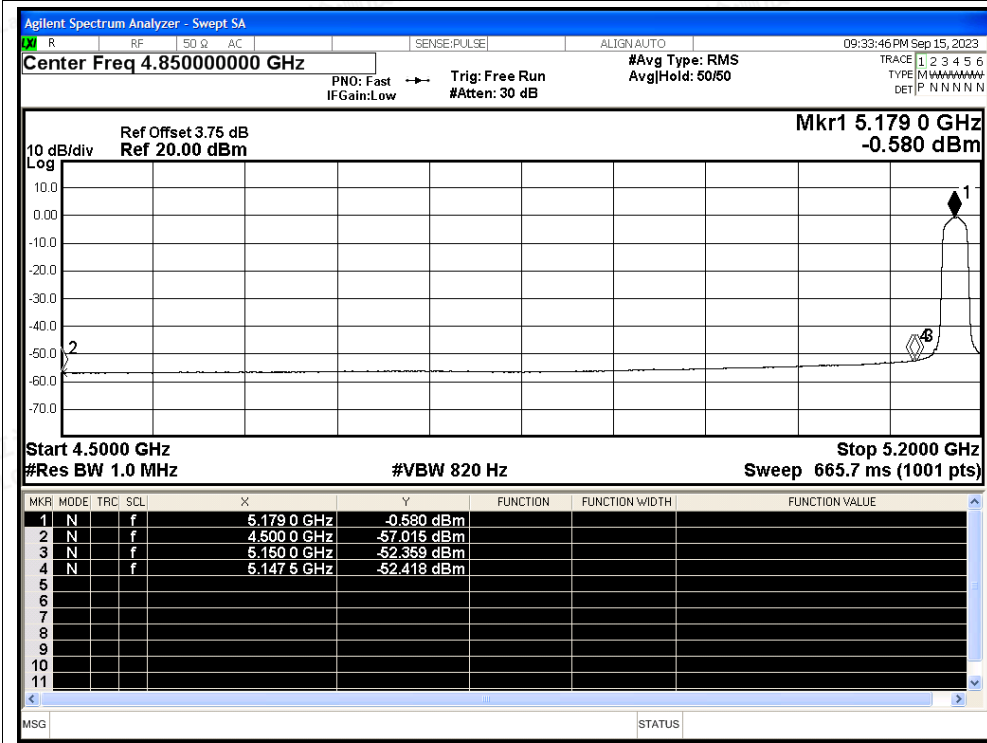




Restrict Band NVNT n20 5180MHz mimo Peak

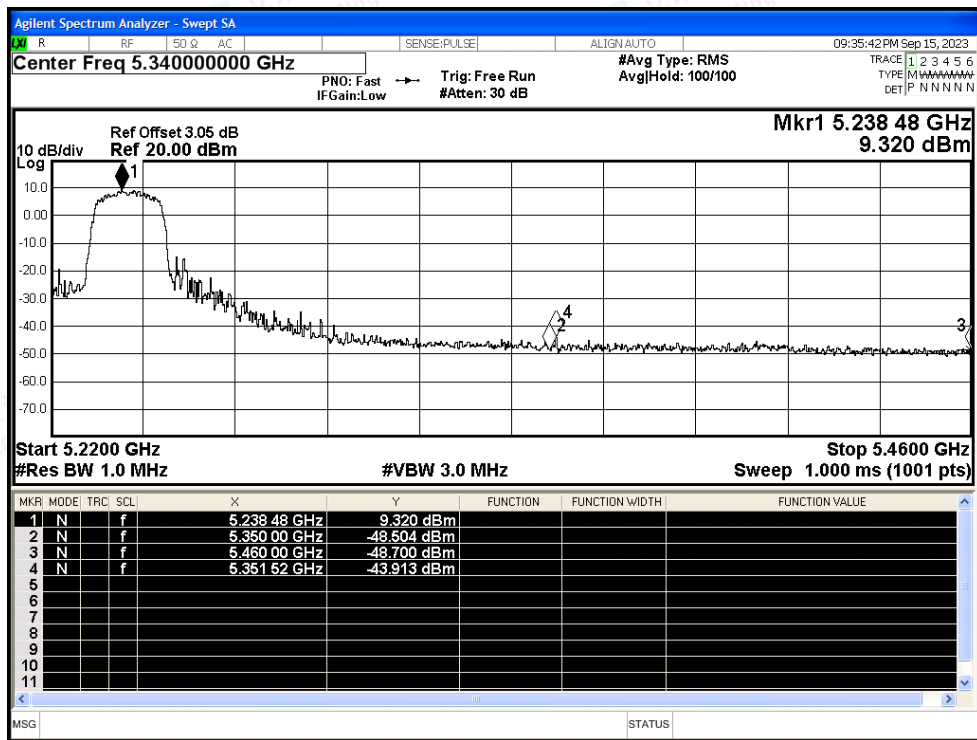


Restrict Band NVNT n20 5180MHz mimo Average

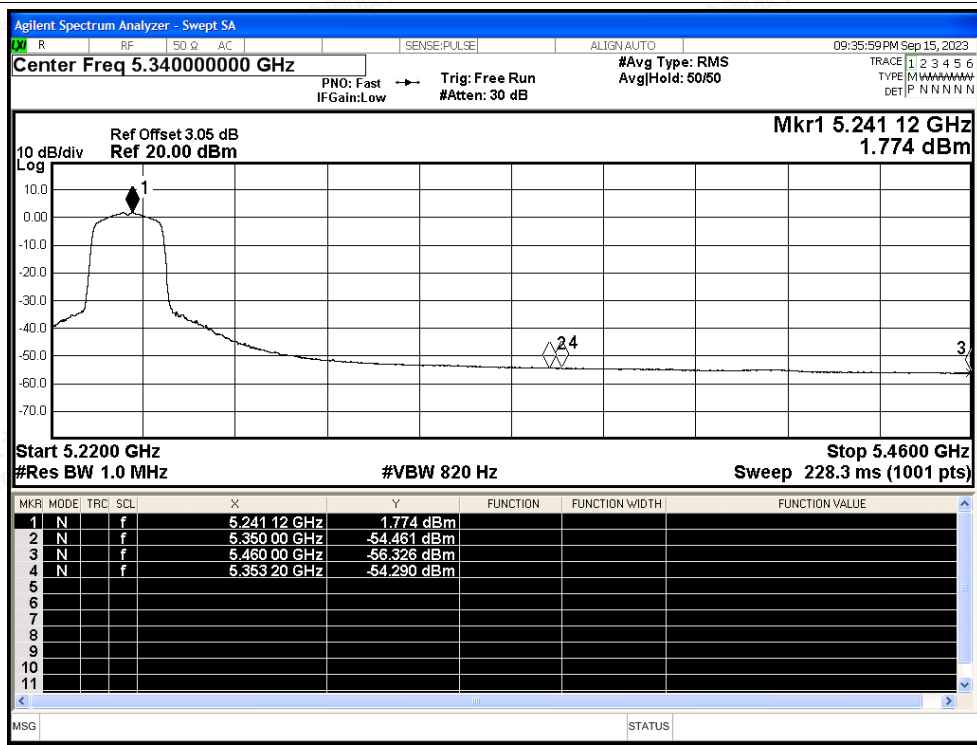




Restrict Band NVNT n20 5240MHz mimo Peak

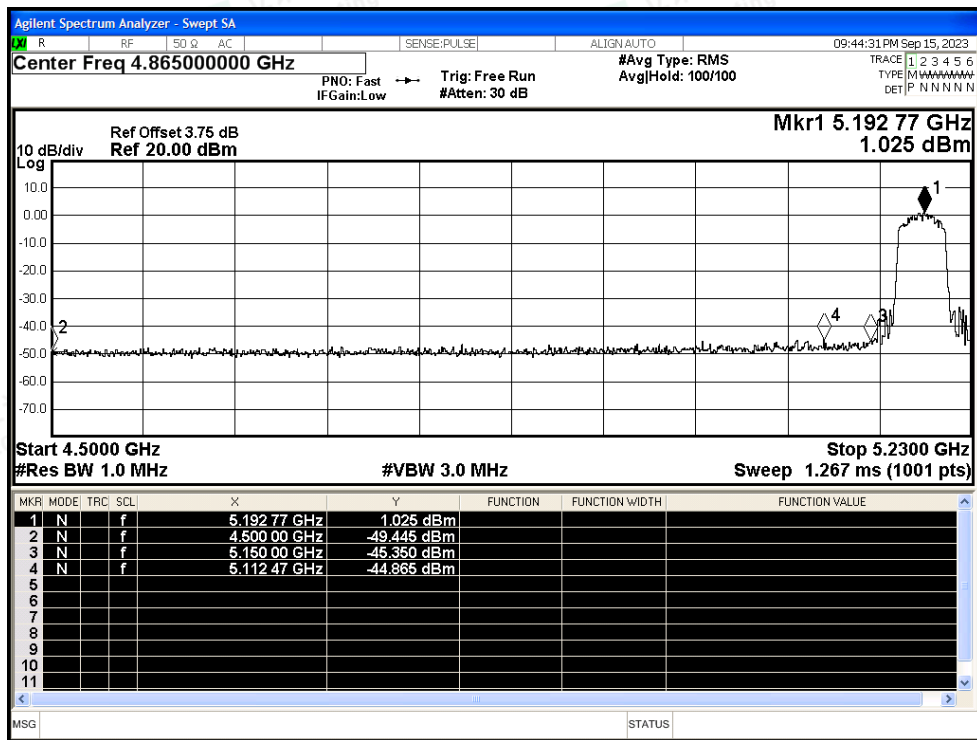


Restrict Band NVNT n20 5240MHz mimo Average

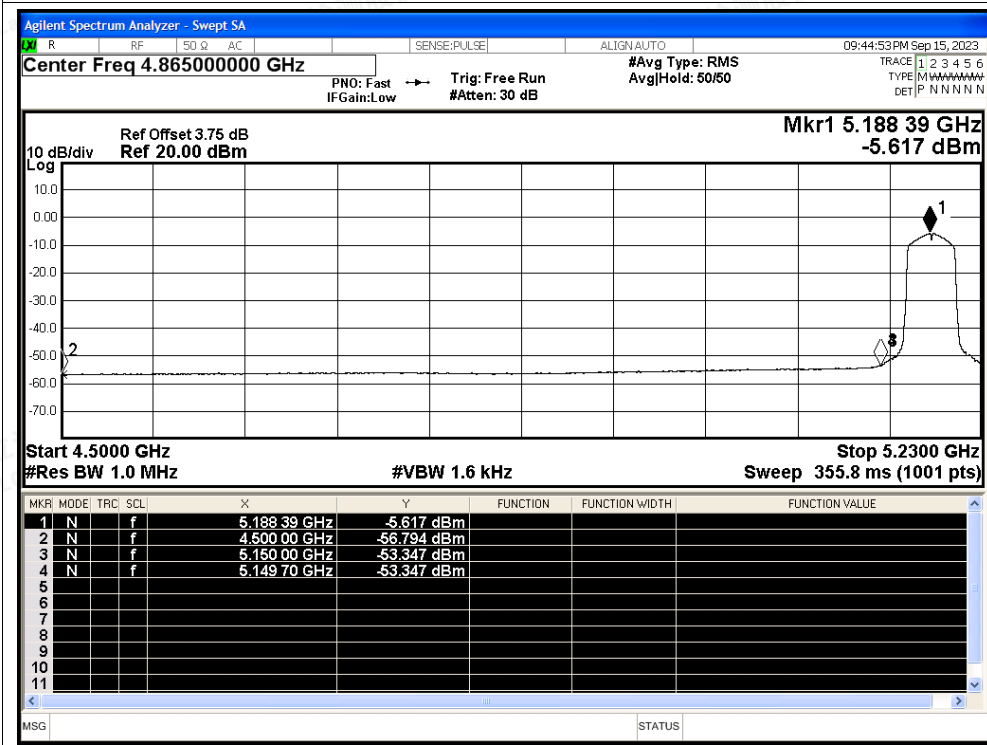




Restrict Band NVNT n40 5190MHz mimo Peak

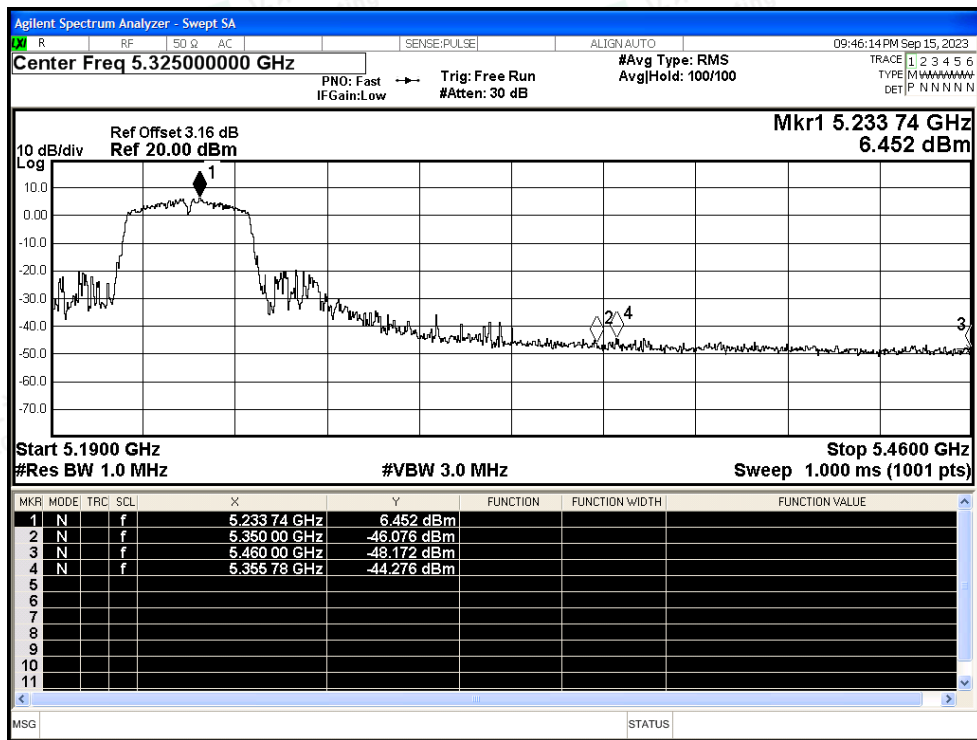


Restrict Band NVNT n40 5190MHz mimo Average

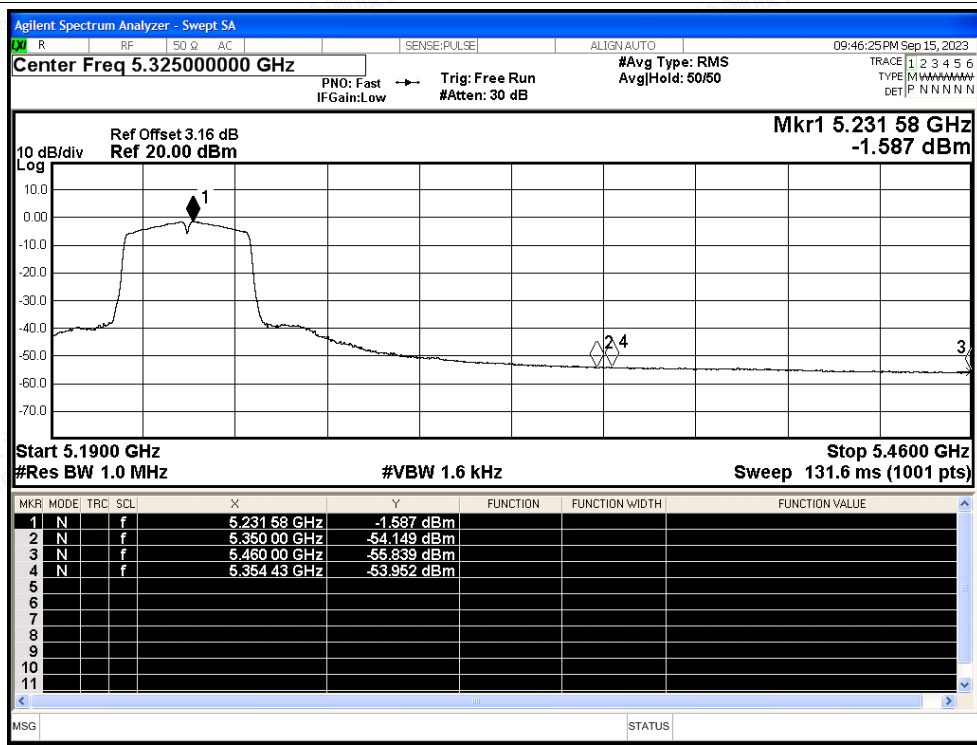




Restrict Band NVNT n40 5230MHz mimo Peak

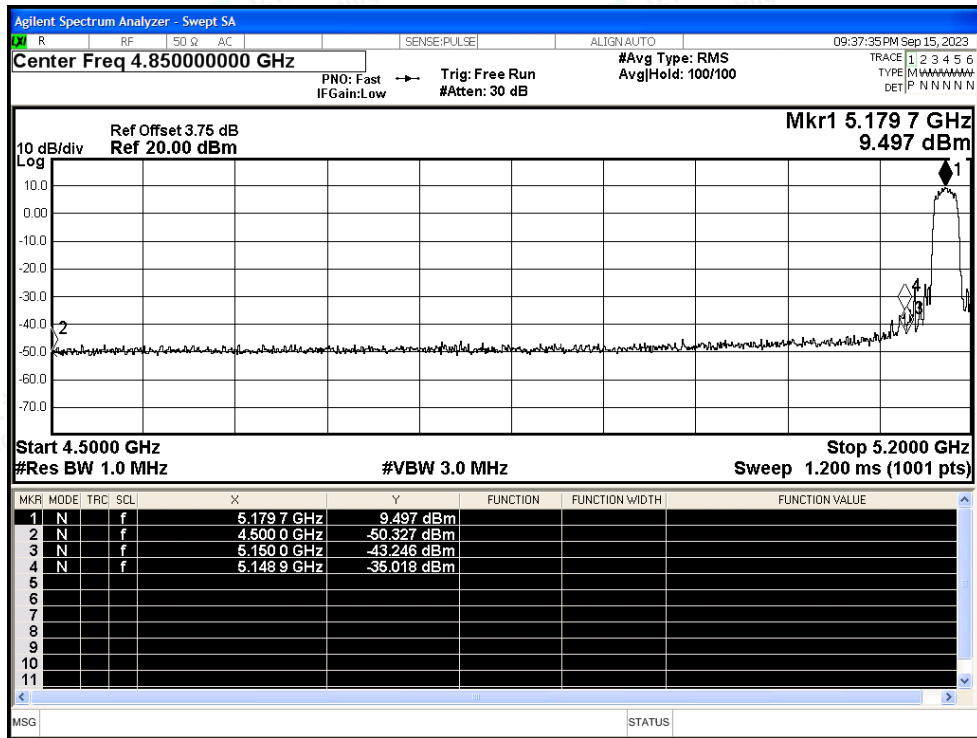


Restrict Band NVNT n40 5230MHz mimo Average

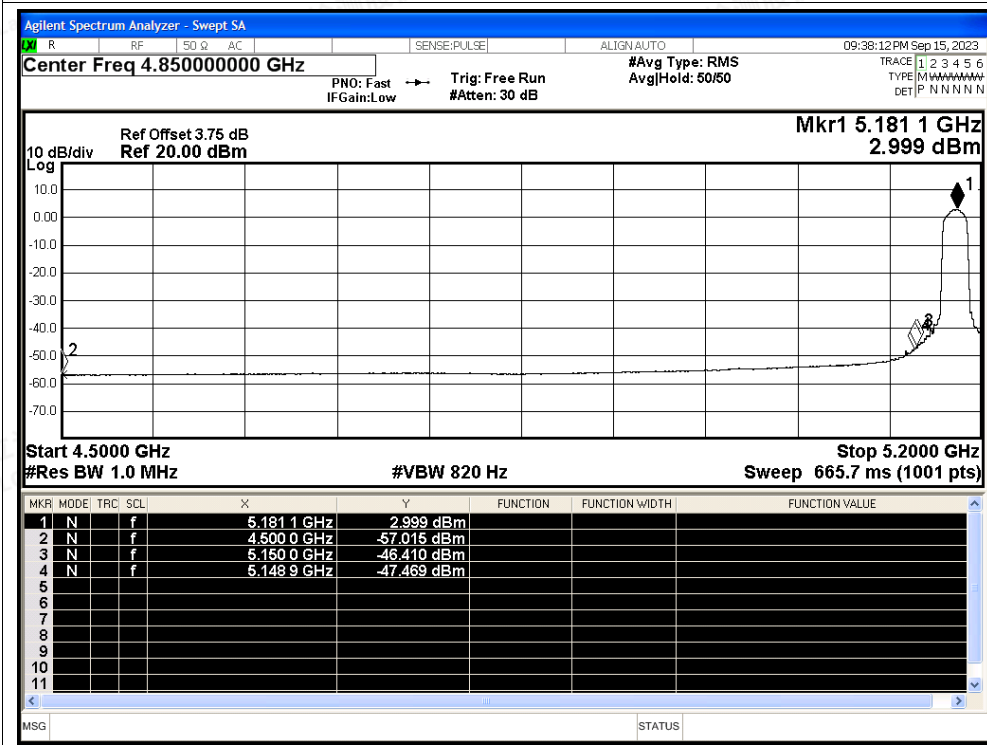




Restrict Band NVNT ac20 5180MHz mimo Peak

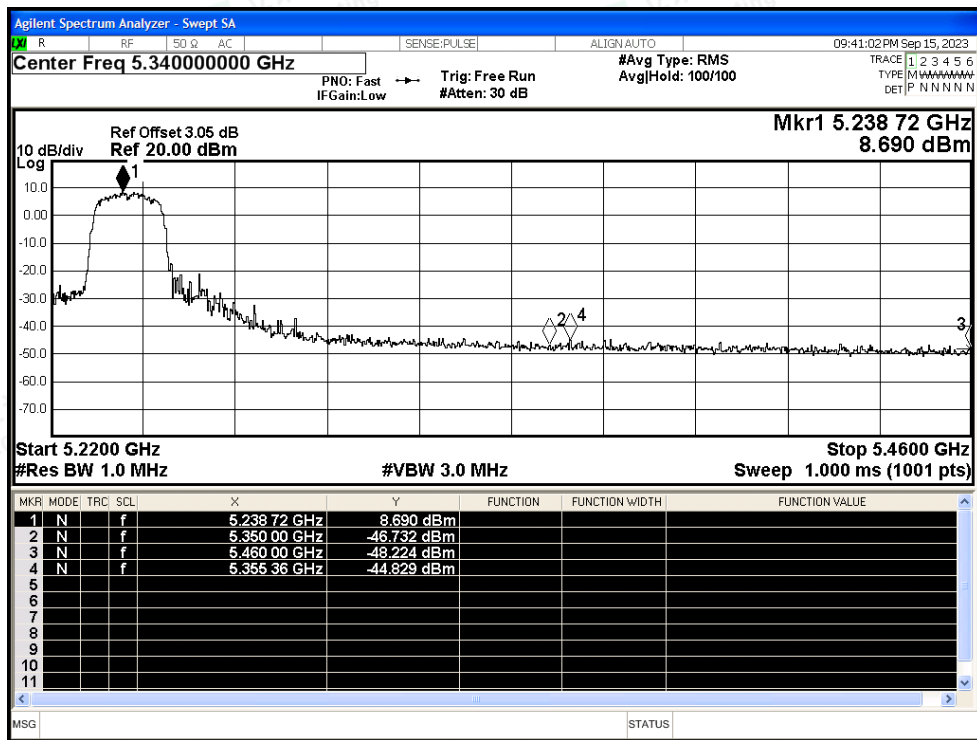


Restrict Band NVNT ac20 5180MHz mimo Average

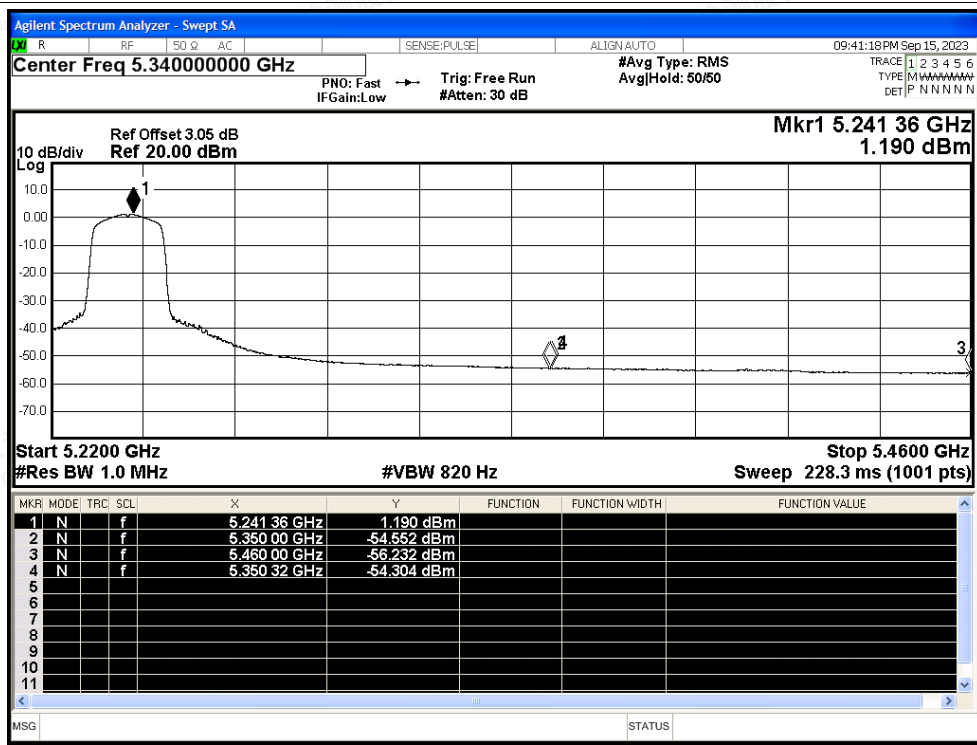




Restrict Band NVNT ac20 5240MHz mimo Peak

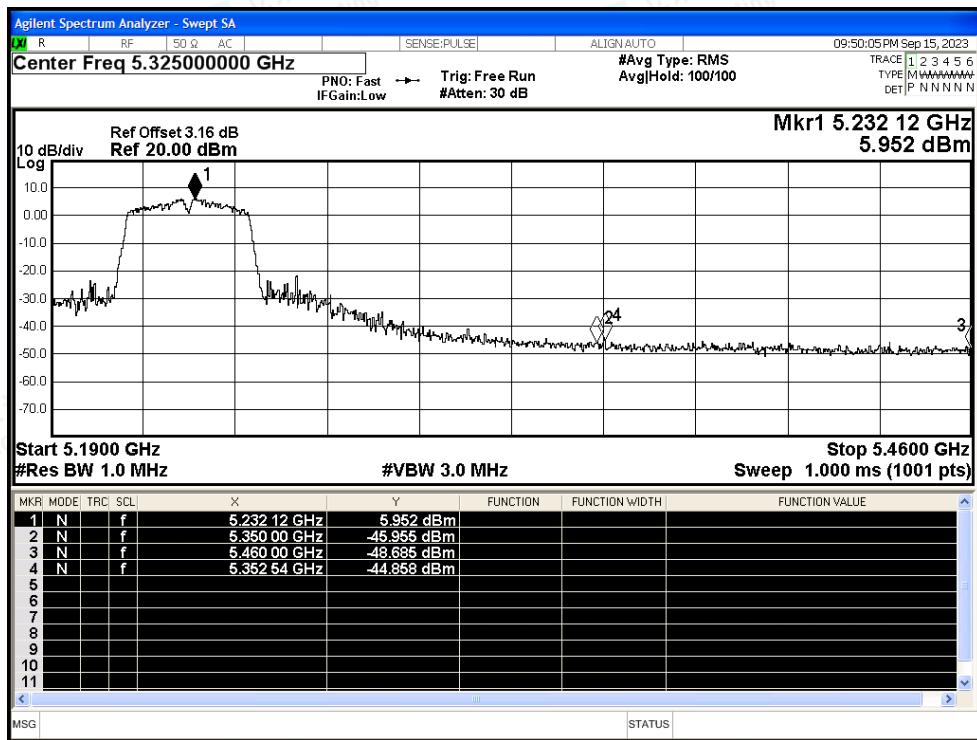


Restrict Band NVNT ac20 5240MHz mimo Average

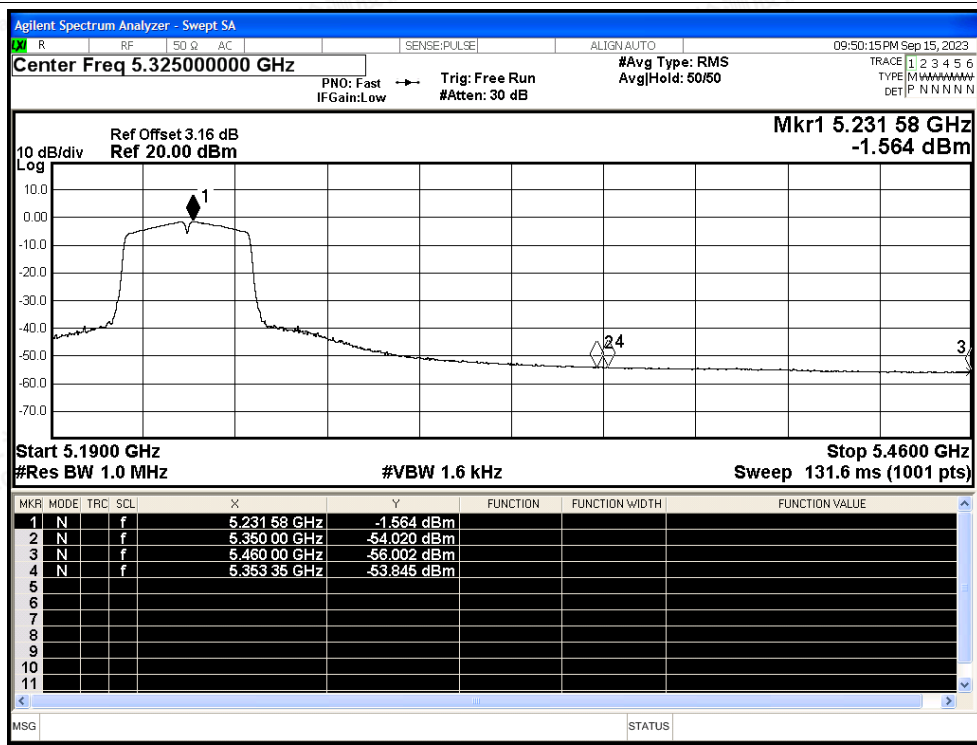




Restrict Band NVNT ac40 5230MHz mimo Peak

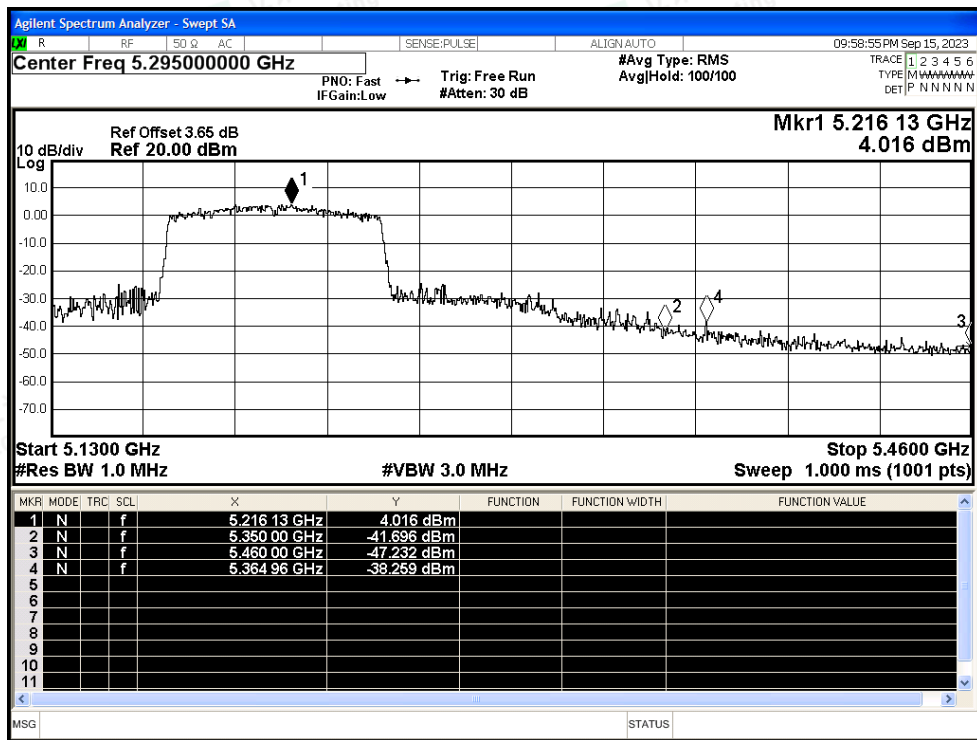


Restrict Band NVNT ac40 5230MHz mimo Average

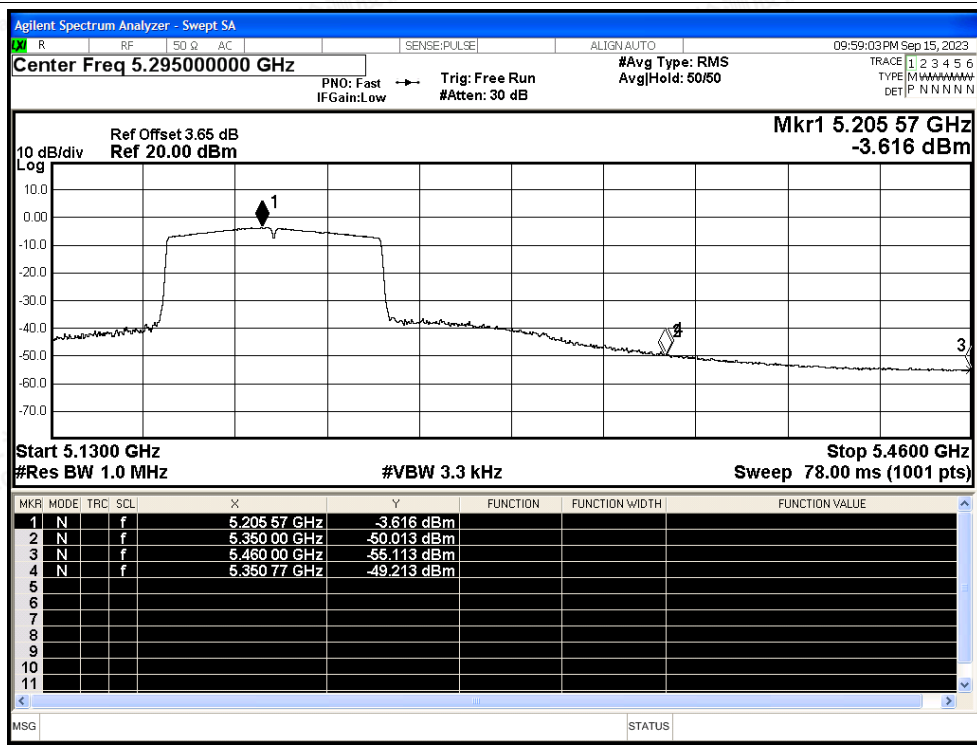




Restrict Band NVNT ac80 5210MHz mimo Peak

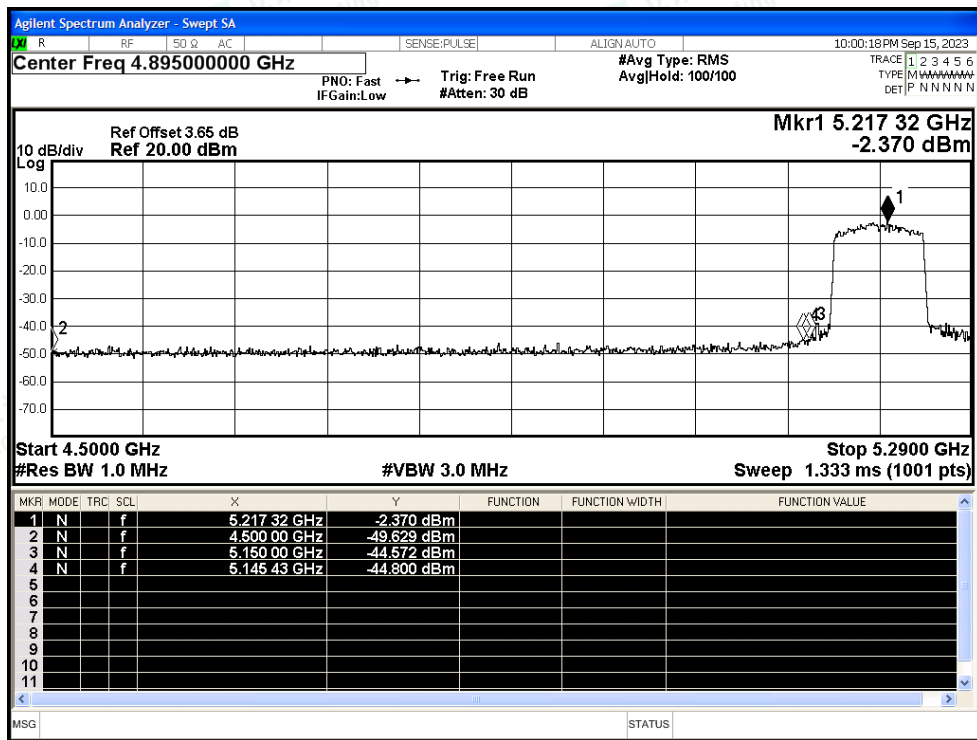


Restrict Band NVNT ac80 5210MHz mimo Average

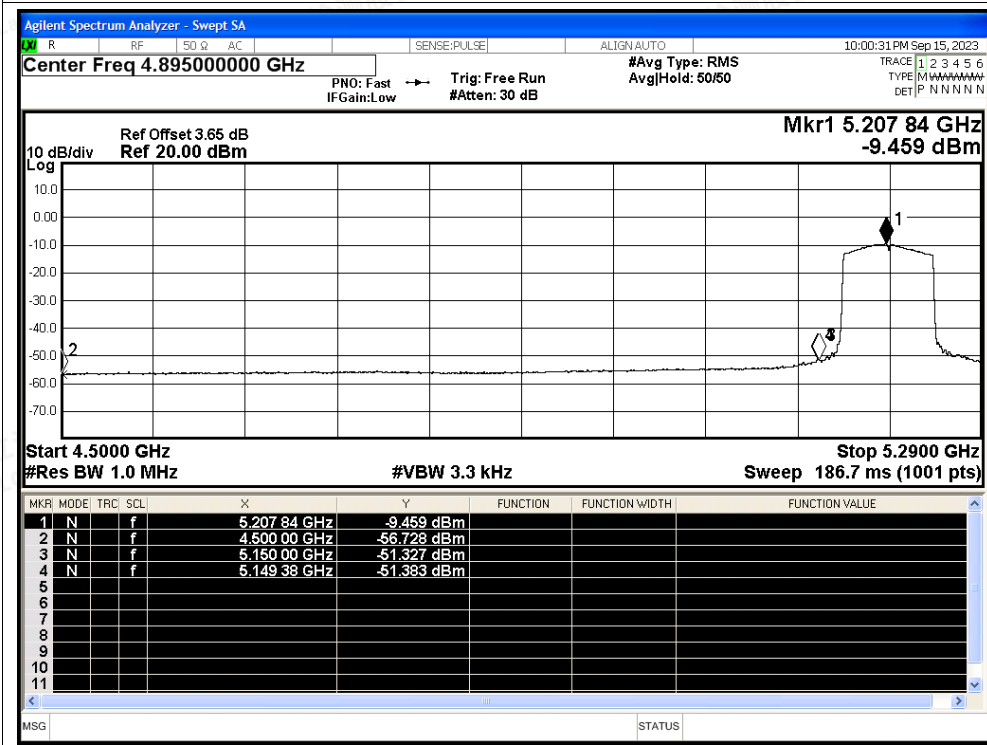




Restrict Band NVNT ac80 5210MHz mimo Peak



Restrict Band NVNT ac80 5210MHz mimo Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant0	5180	0	0	25	Pass
NVNT	ac20	5200	Ant0	5200	0	0	25	Pass
NVNT	ac20	5240	Ant0	5240	0	0	25	Pass
NVNT	ac40	5190	Ant0	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant0	5230	0	0	25	Pass
NVNT	ac80	5210	Ant0	5210	0	0	25	Pass

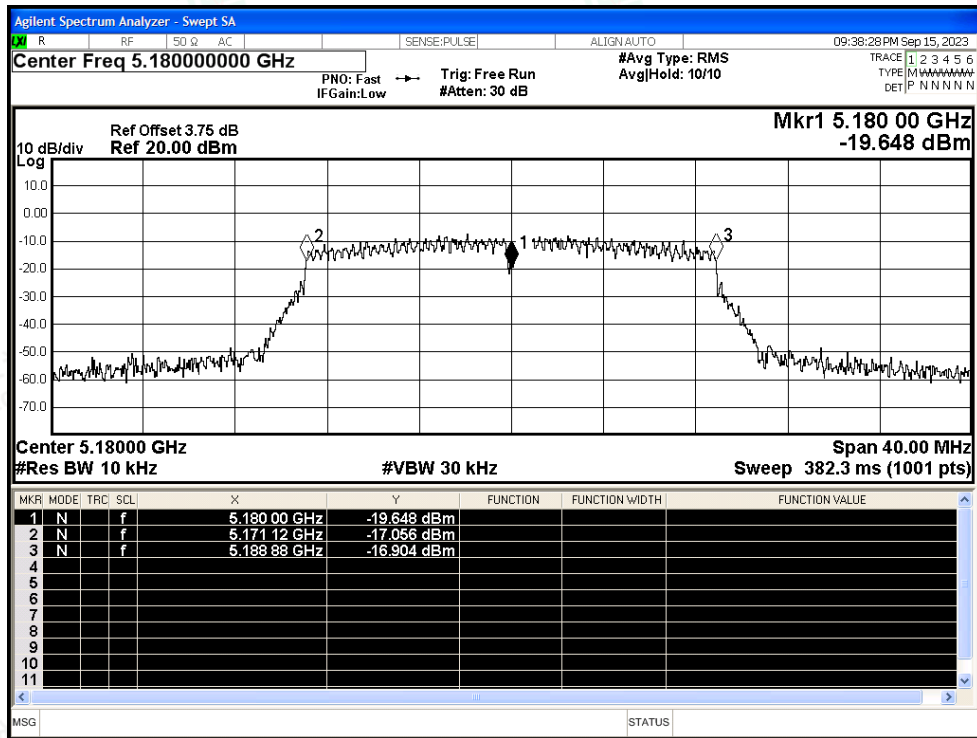


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

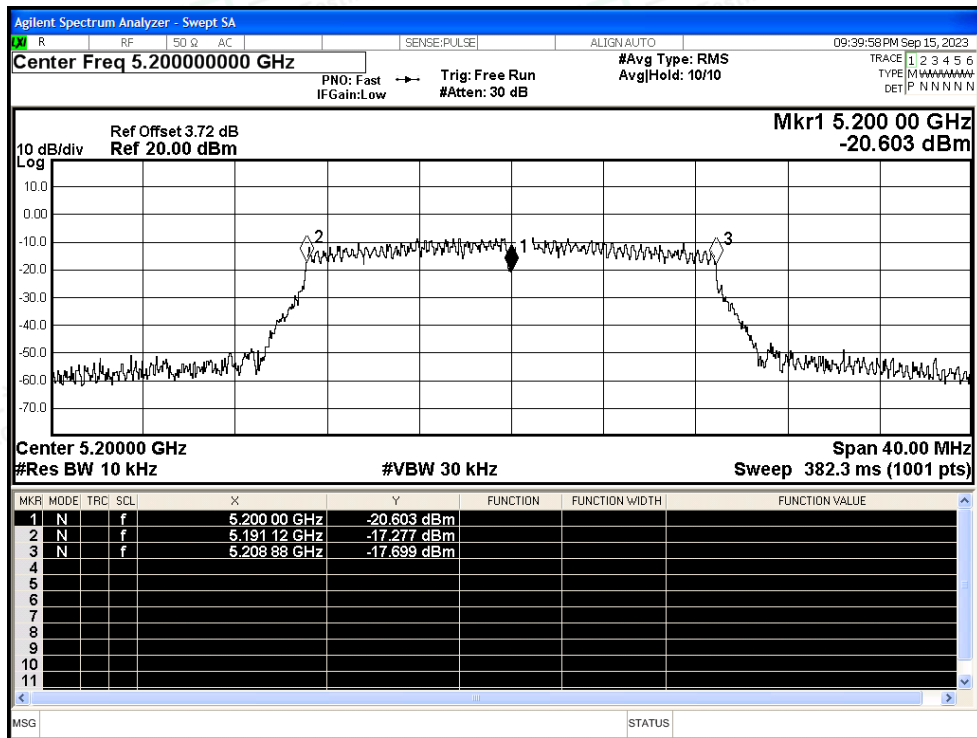


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant0

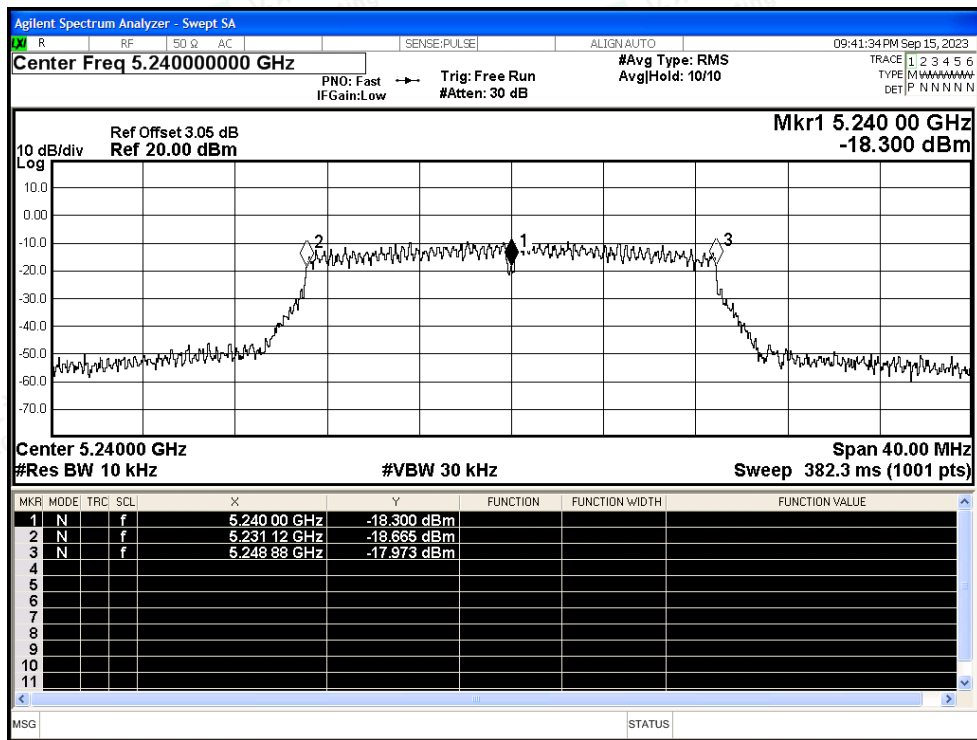


Freq. Stability NVNT ac20 5200MHz Ant0

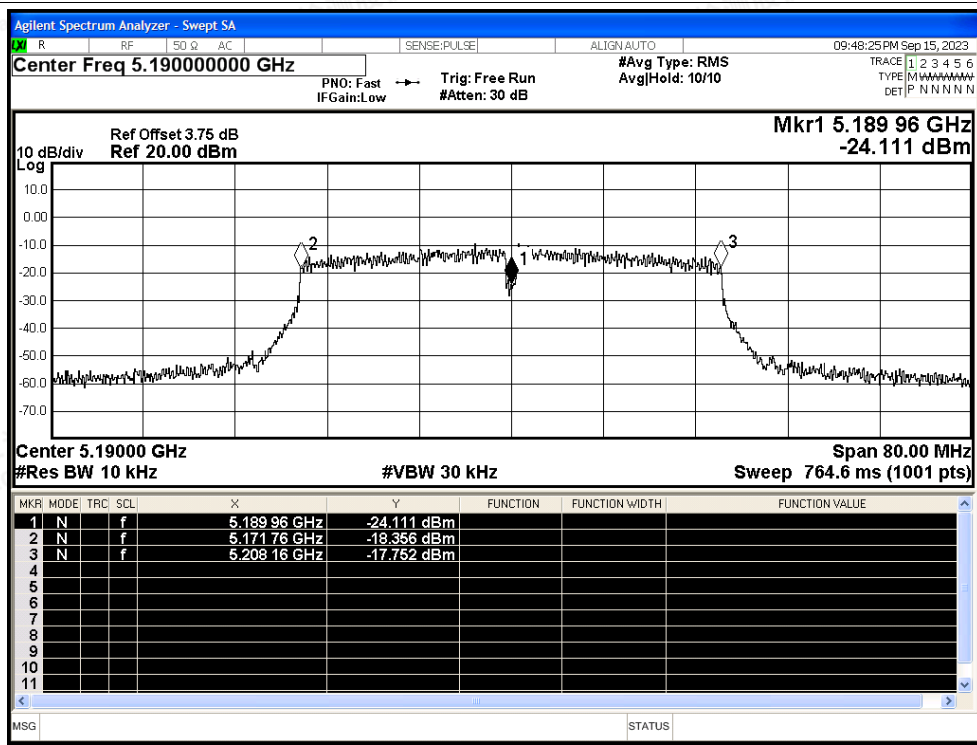




Freq. Stability NVNT ac20 5240MHz Ant0

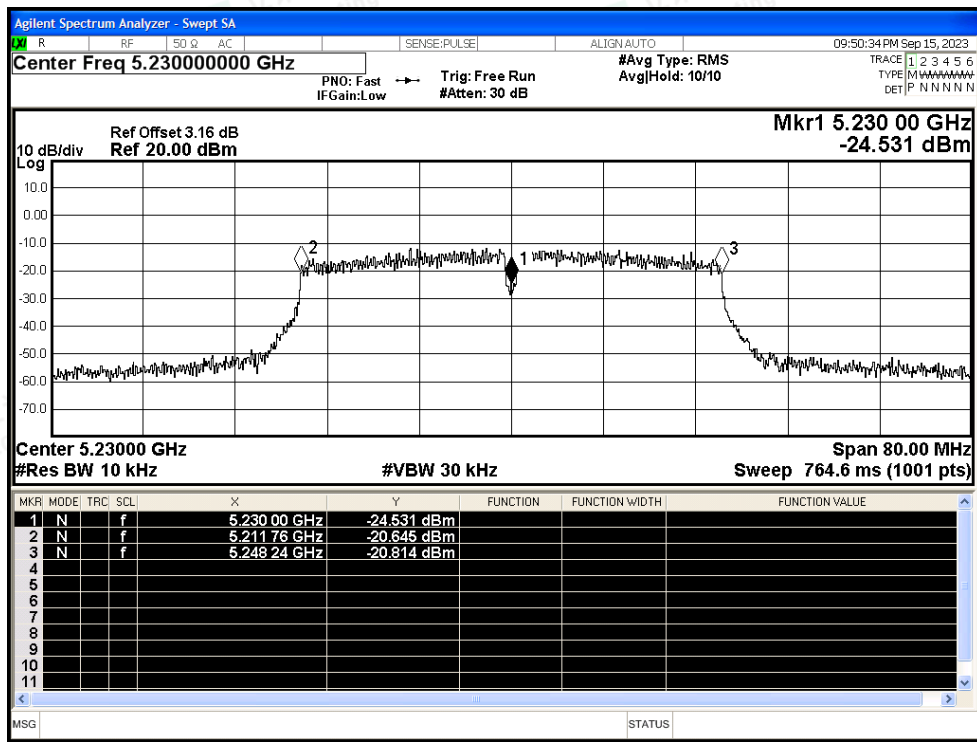


Freq. Stability NVNT ac40 5190MHz Ant0

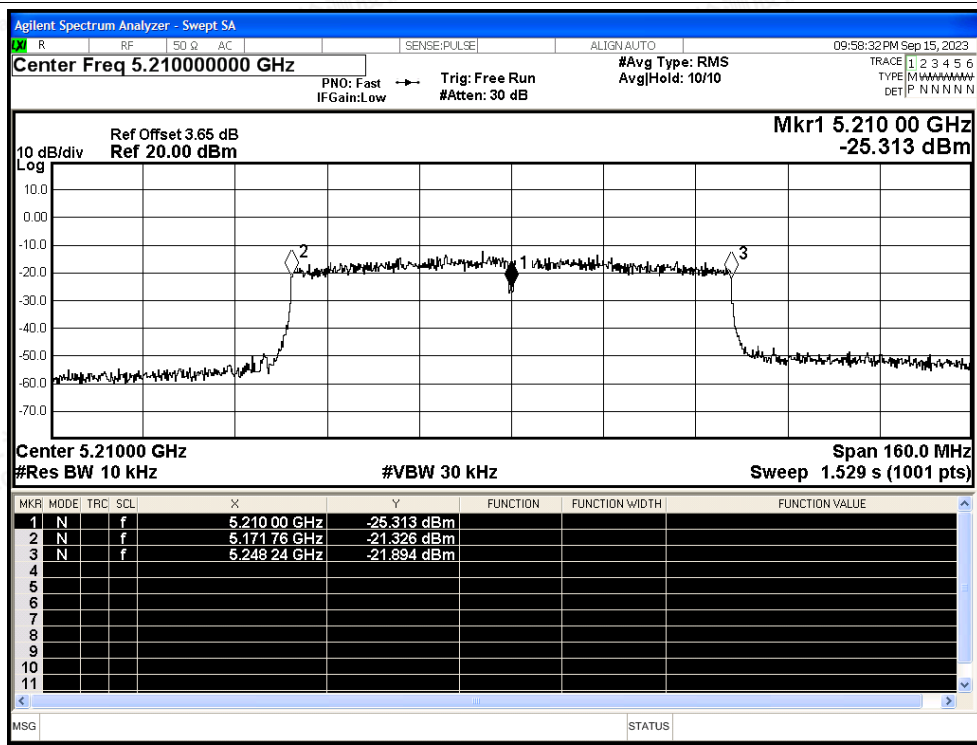


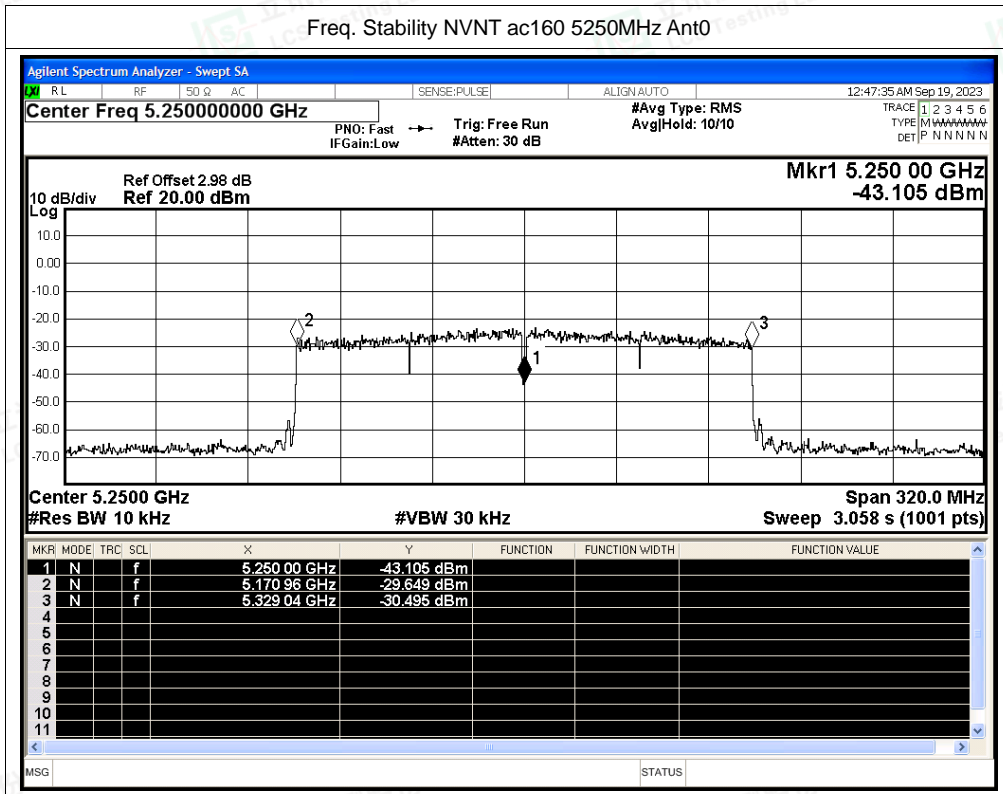


Freq. Stability NVNT ac40 5230MHz Ant0



Freq. Stability NVNT ac80 5210MHz Ant0







Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

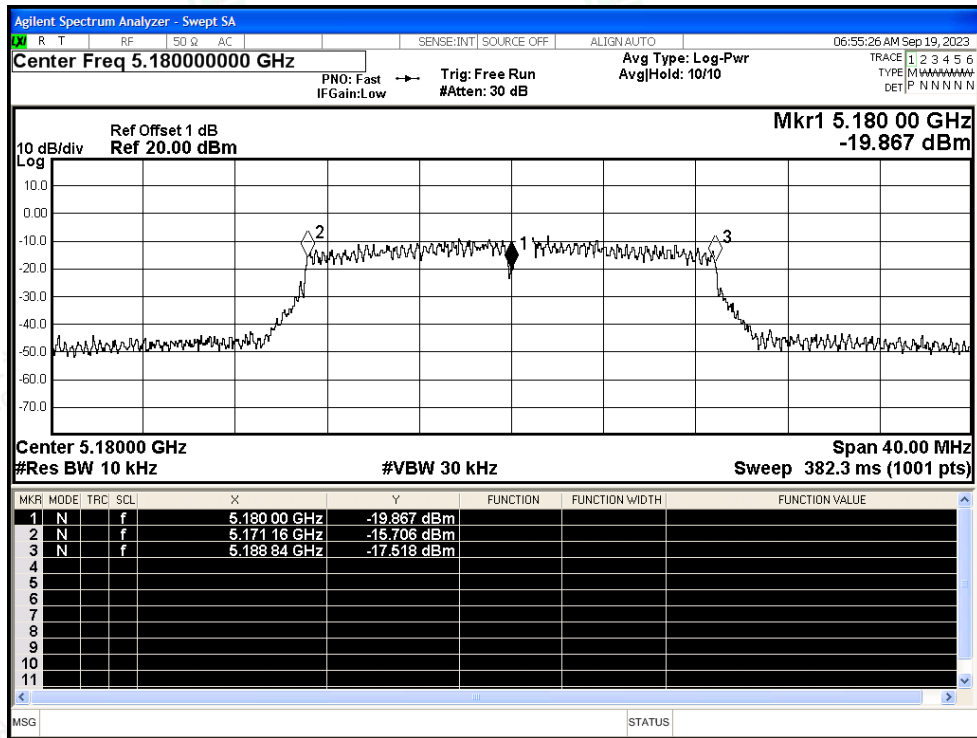


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

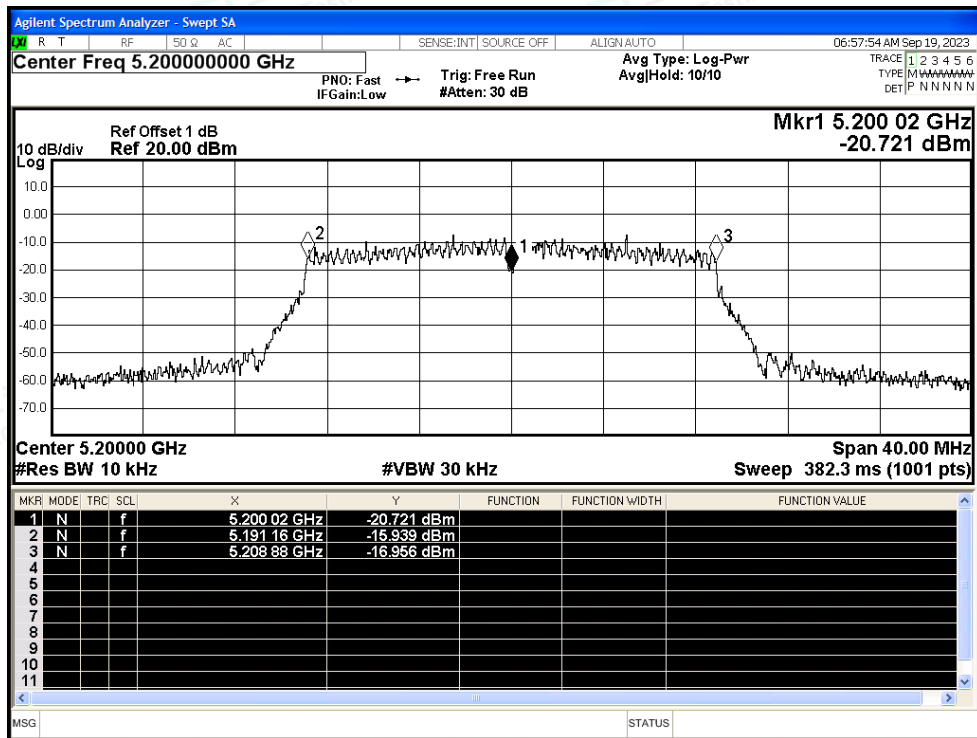


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant1

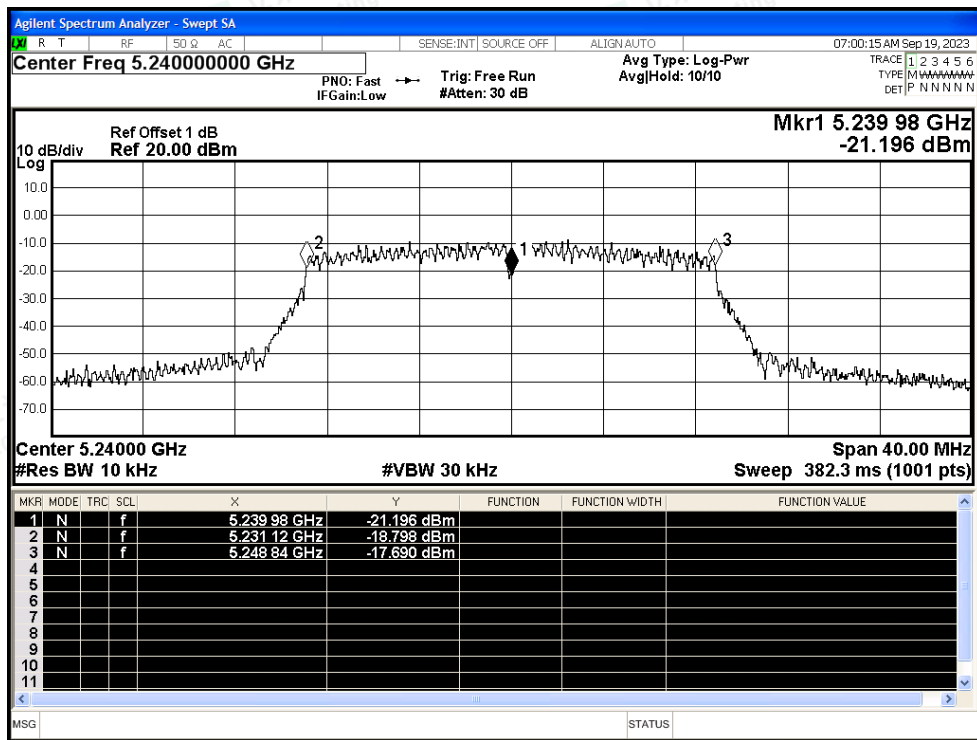


Freq. Stability NVNT ac20 5200MHz Ant1

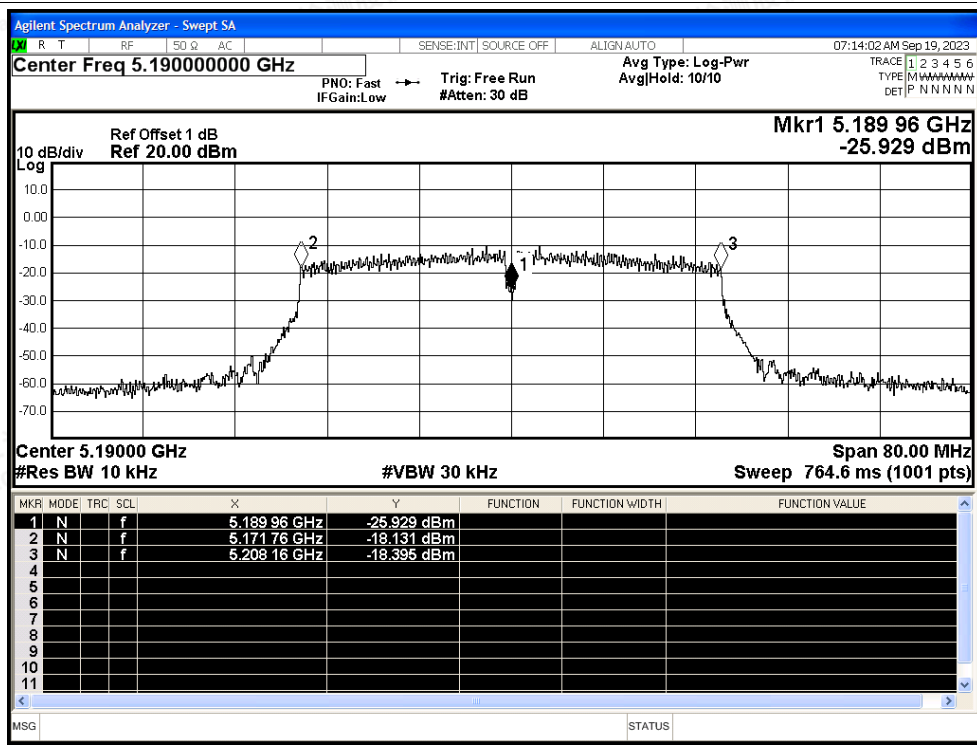




Freq. Stability NVNT ac20 5240MHz Ant1

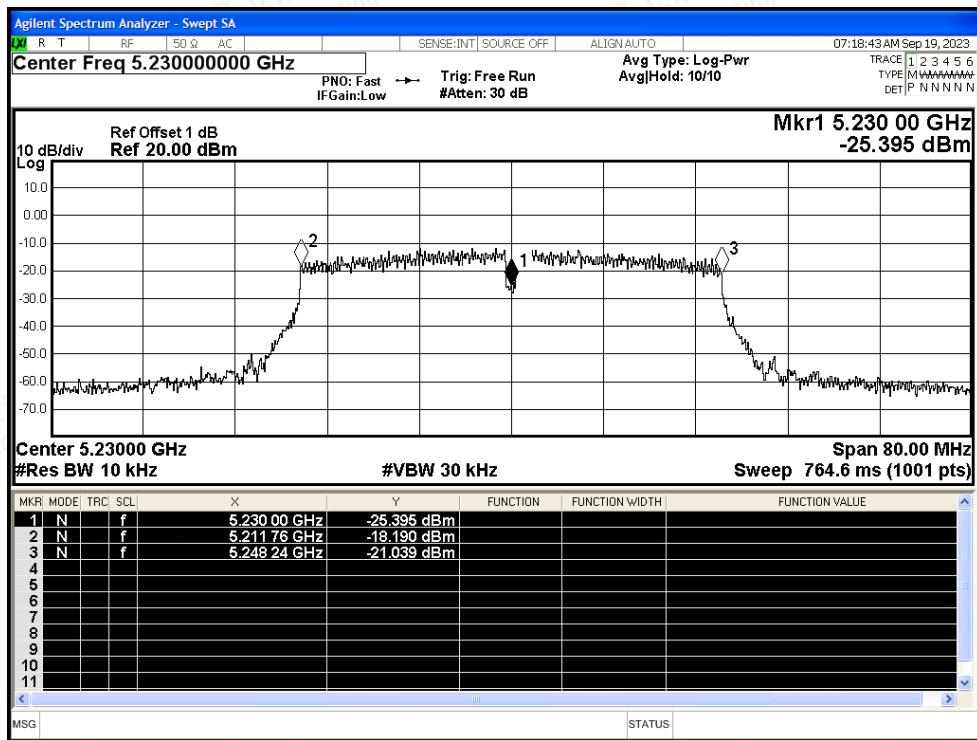


Freq. Stability NVNT ac40 5190MHz Ant1

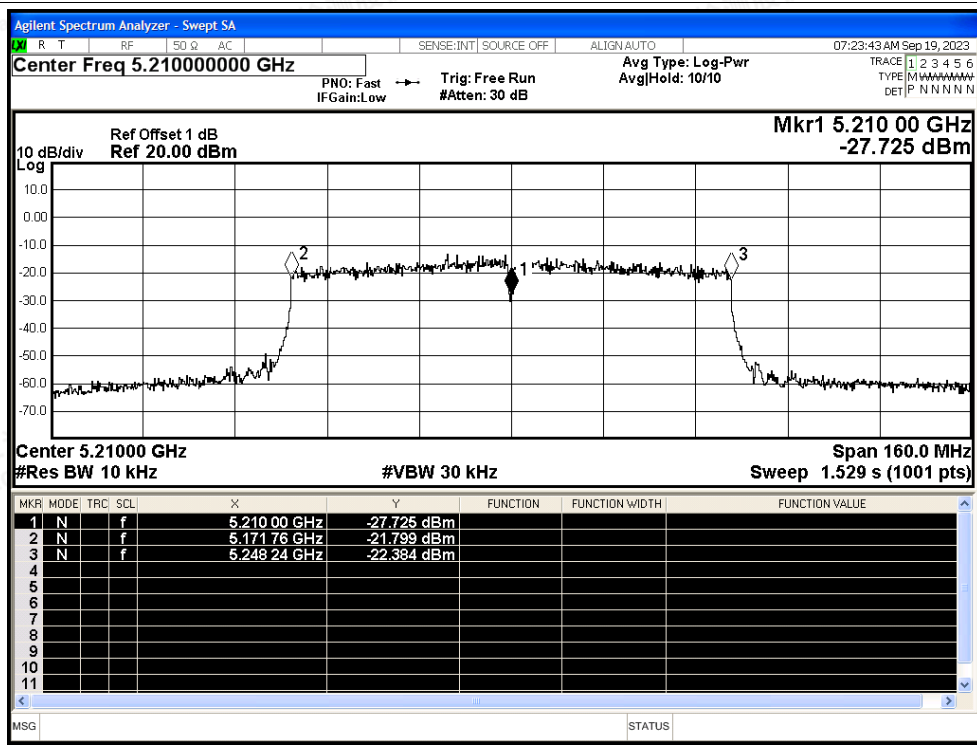


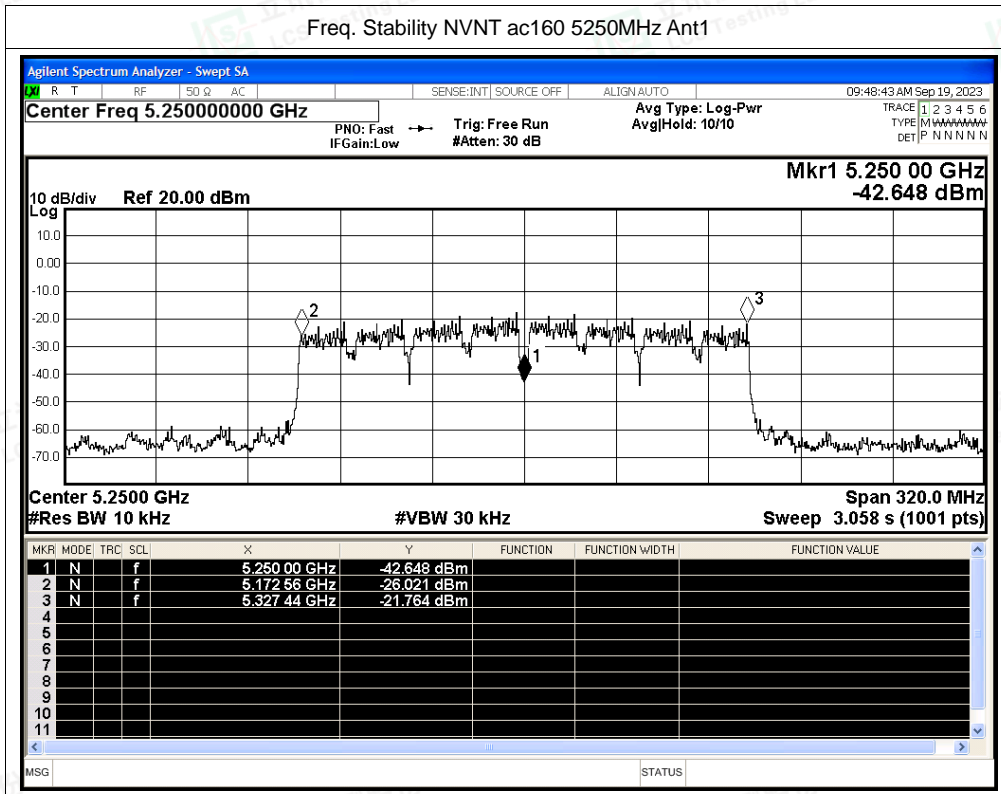


Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1







D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant0	96.94	0.13	0.72
NVNT	a	5200	Ant0	96.94	0.13	0.72
NVNT	a	5240	Ant0	96.94	0.13	0.72
NVNT	n20	5180	Ant0	96.7	0.15	0.78
NVNT	n20	5200	Ant0	96.7	0.15	0.78
NVNT	n20	5240	Ant0	96.7	0.15	0.78
NVNT	n40	5190	Ant0	93.53	0.29	1.57
NVNT	n40	5230	Ant0	93.68	0.28	1.57
NVNT	ac20	5180	Ant0	96.78	0.14	0.76
NVNT	ac20	5200	Ant0	96.76	0.14	0.76
NVNT	ac20	5240	Ant0	96.76	0.14	0.76
NVNT	ac40	5190	Ant0	93.68	0.28	1.53
NVNT	ac40	5230	Ant0	93.68	0.28	1.53
NVNT	ac80	5210	Ant0	88.04	0.55	3.09

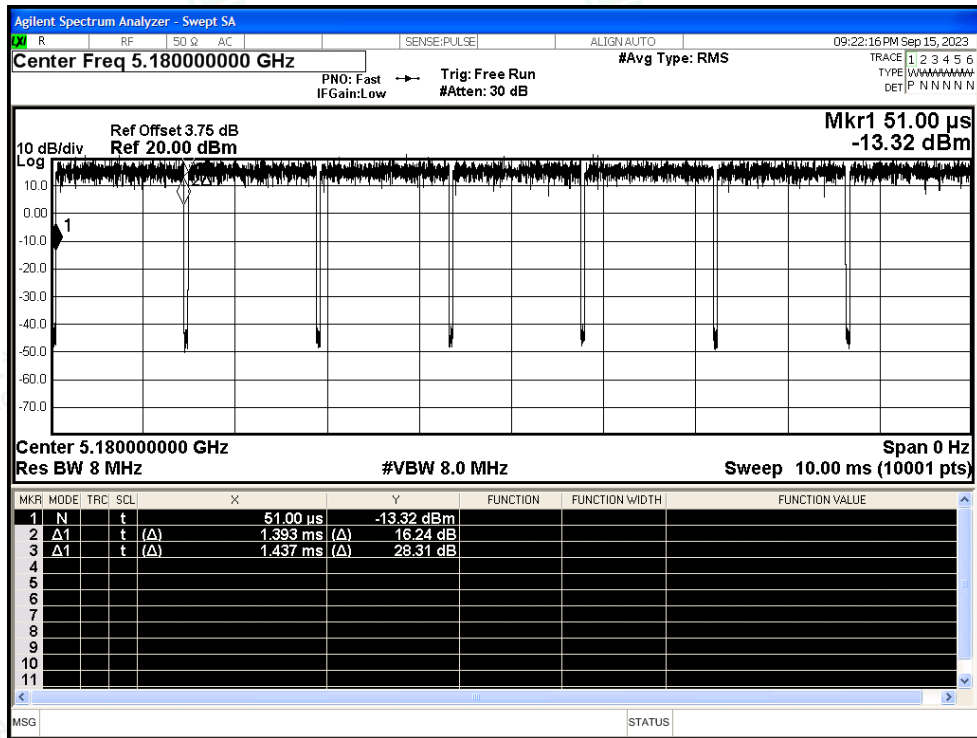


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

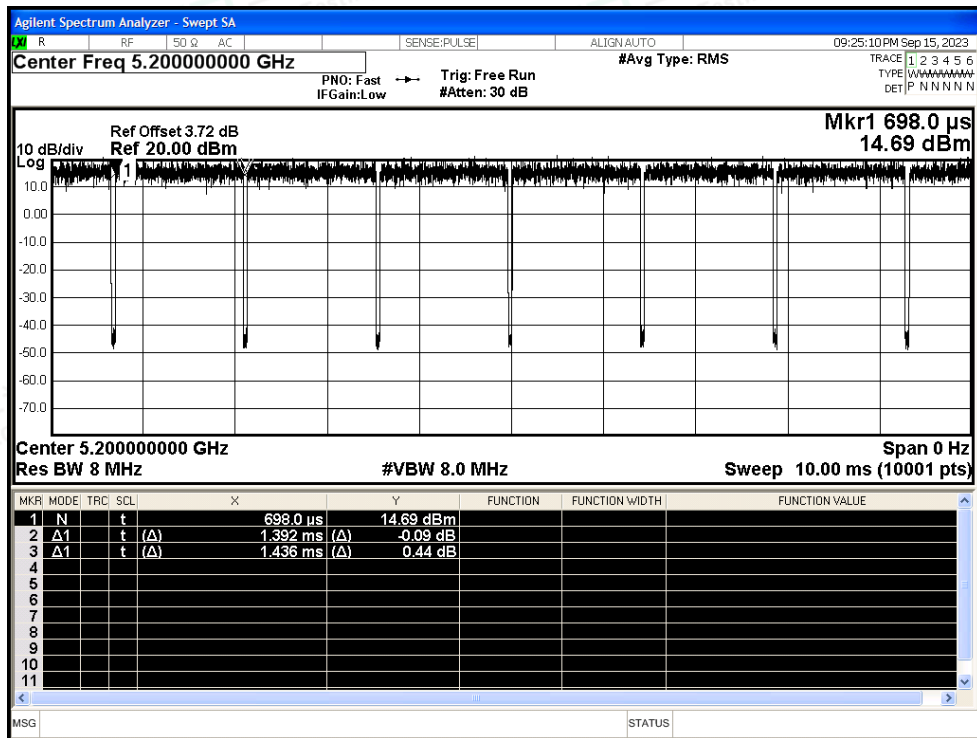


Test Graphs

Duty Cycle NVNT a 5180MHz Ant0

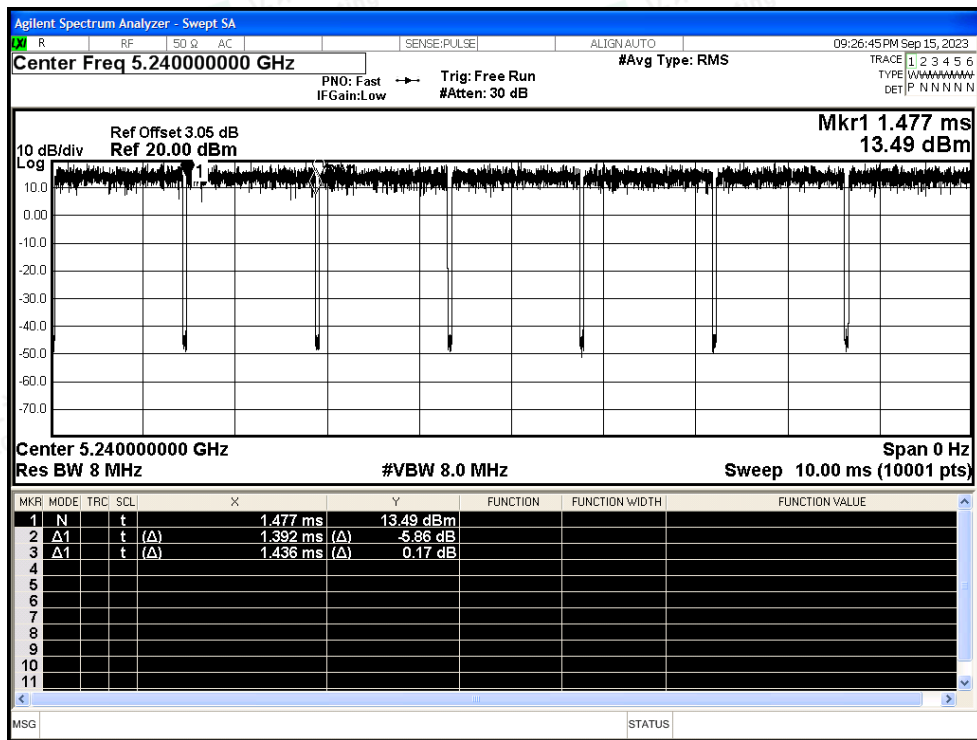


Duty Cycle NVNT a 5200MHz Ant0

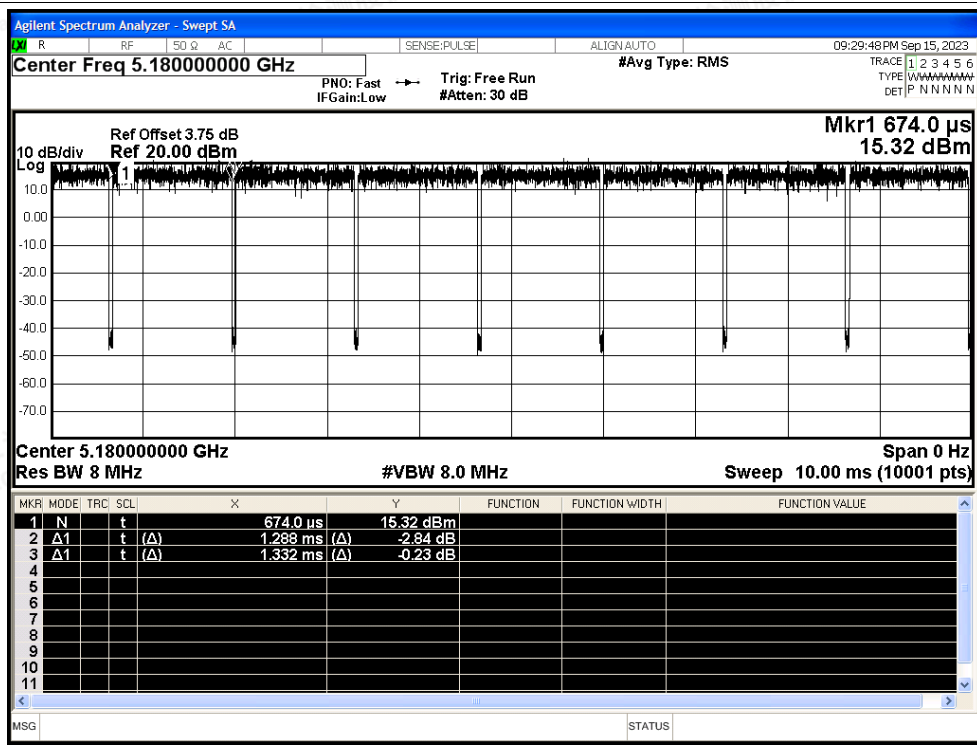




Duty Cycle NVNT a 5240MHz Ant0

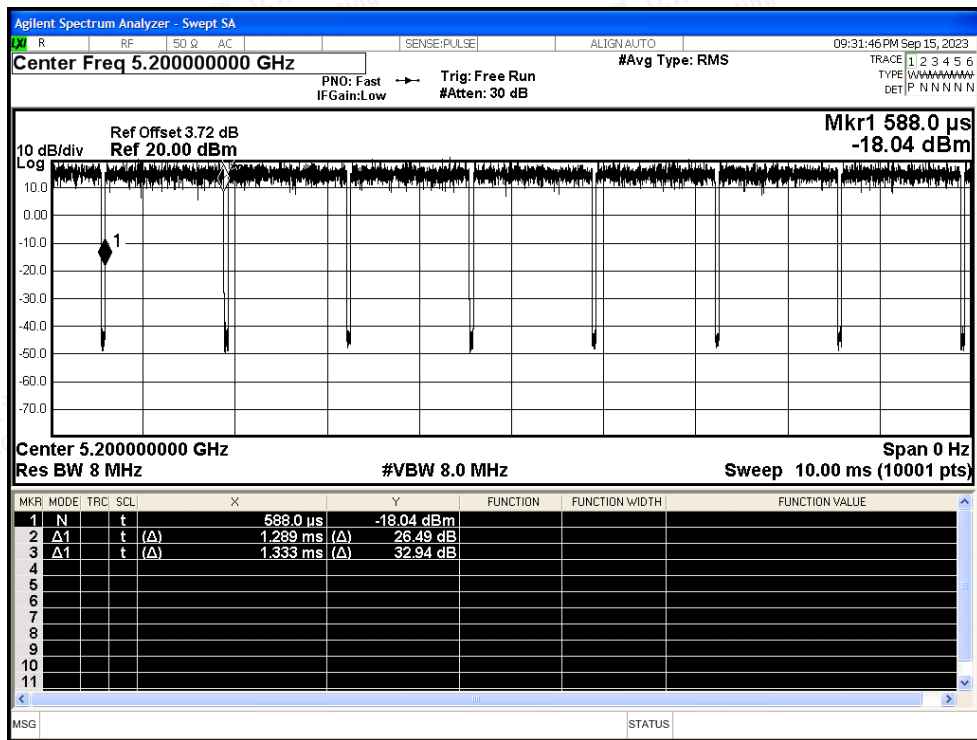


Duty Cycle NVNT n20 5180MHz Ant0

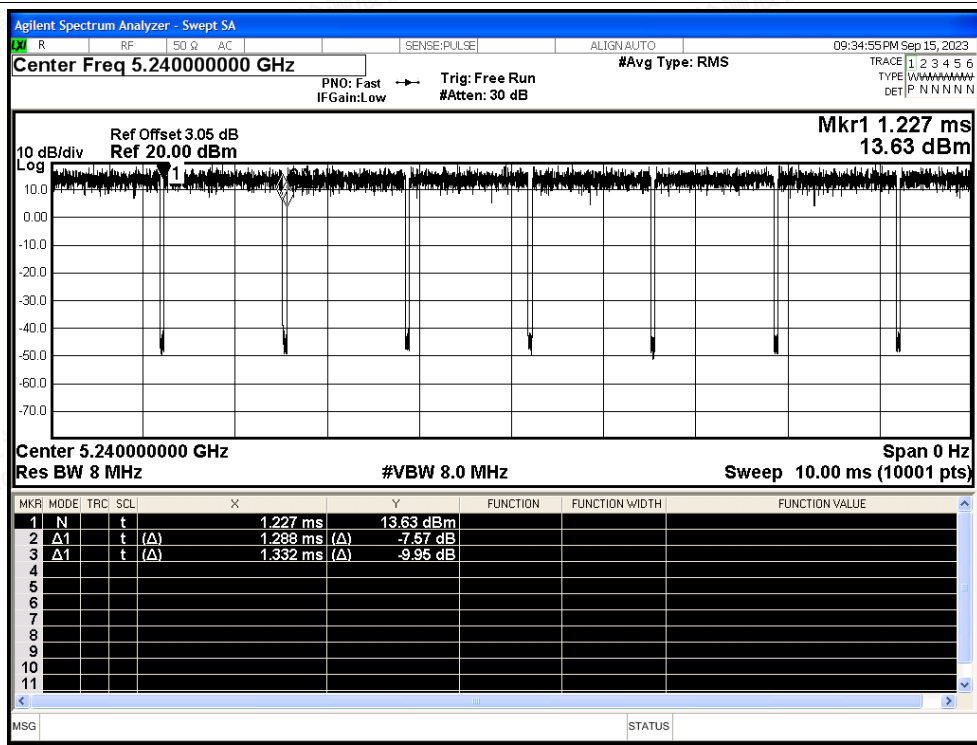




Duty Cycle NVNT n20 5200MHz Ant0

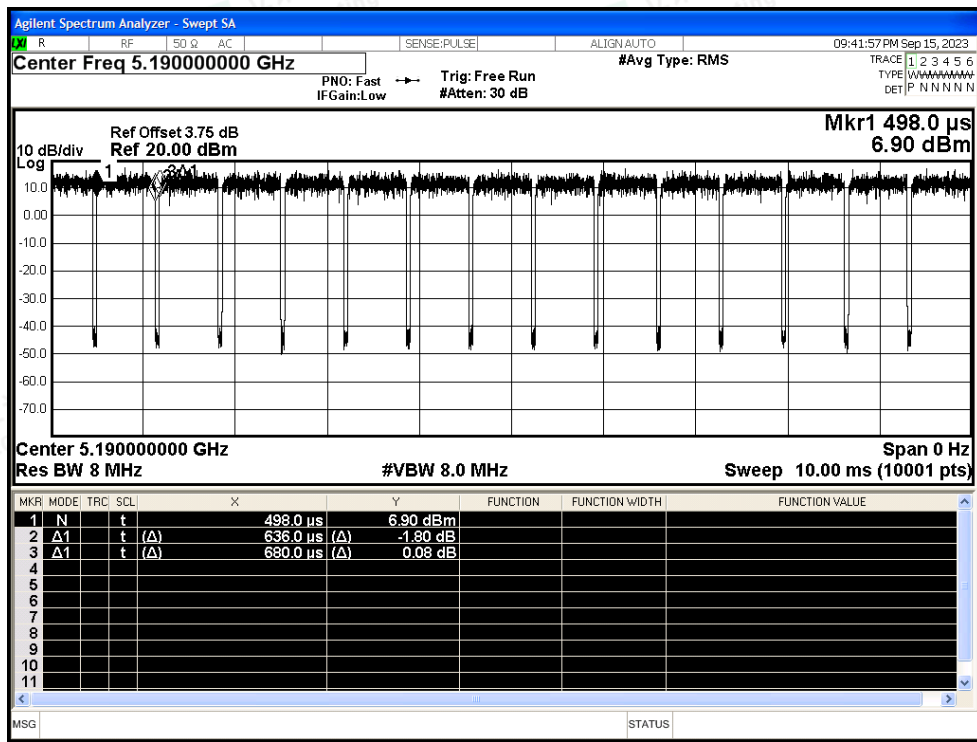


Duty Cycle NVNT n20 5240MHz Ant0

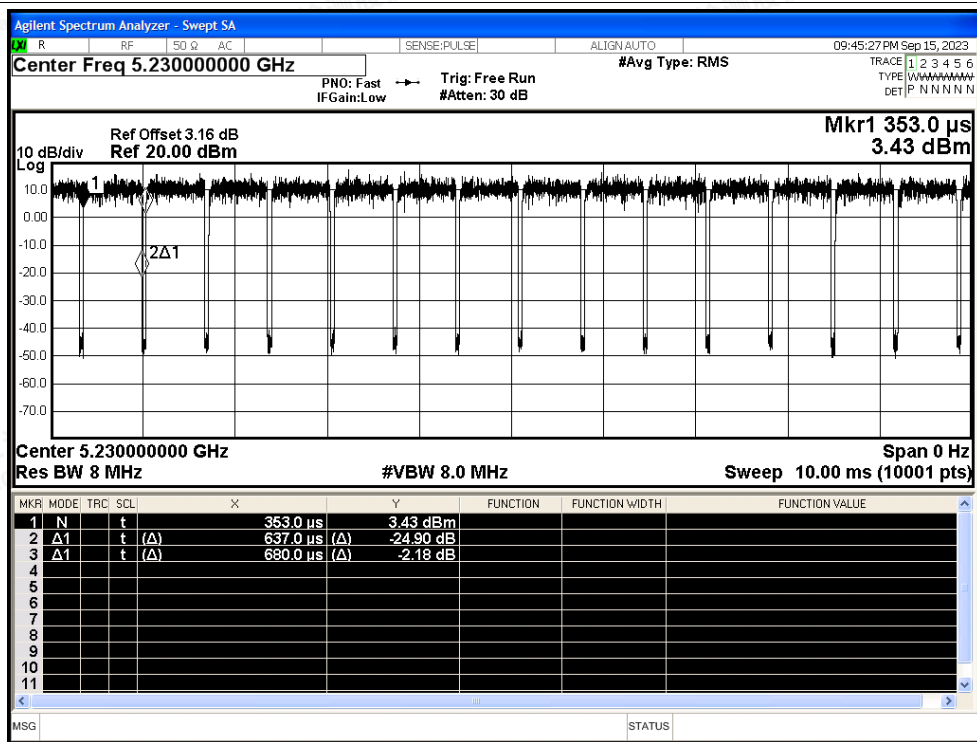




Duty Cycle NVNT n40 5190MHz Ant0

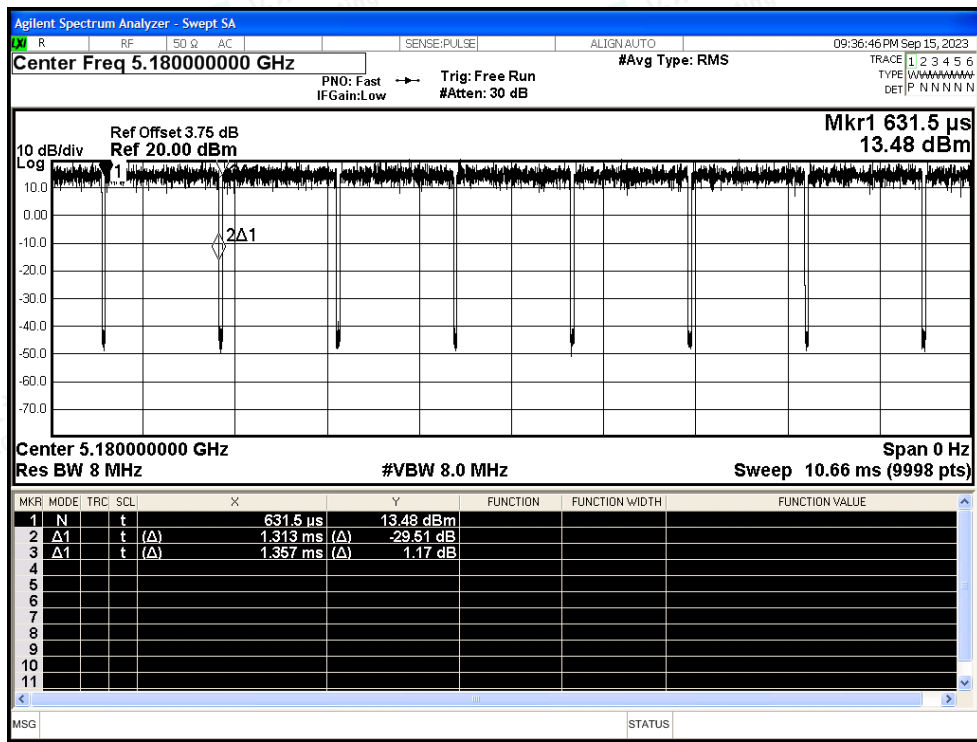


Duty Cycle NVNT n40 5230MHz Ant0

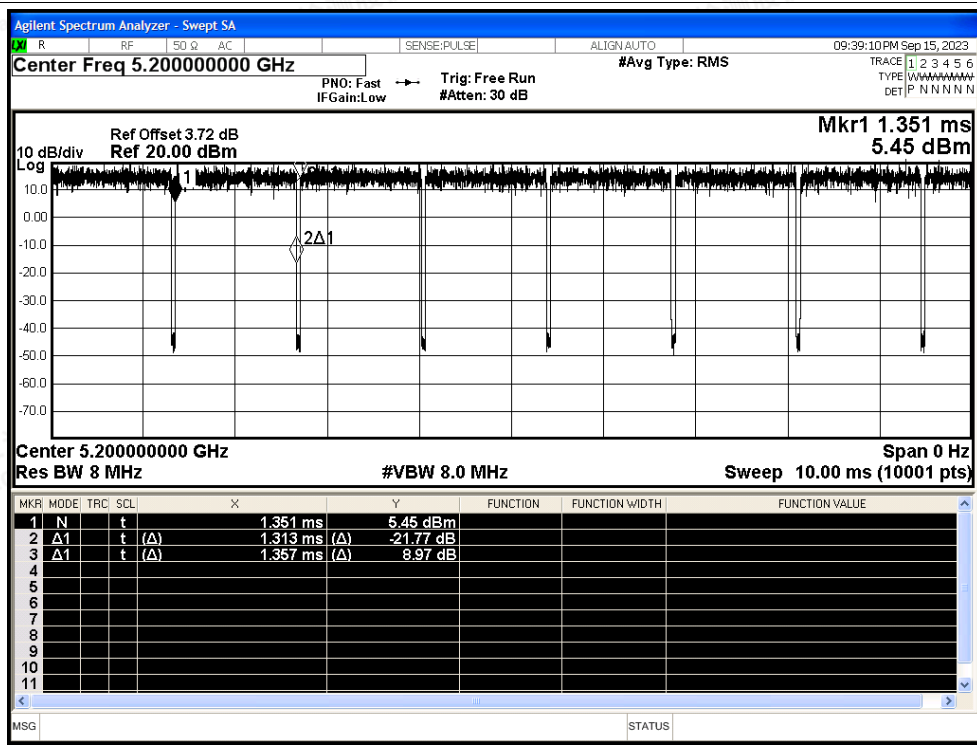




Duty Cycle NVNT ac20 5180MHz Ant0

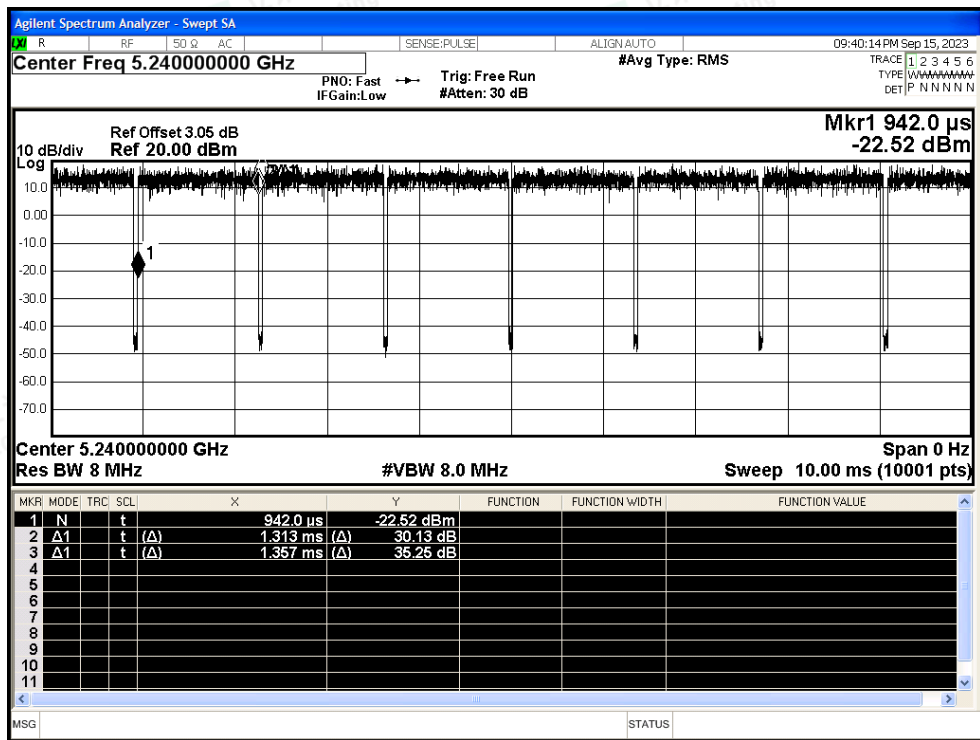


Duty Cycle NVNT ac20 5200MHz Ant0

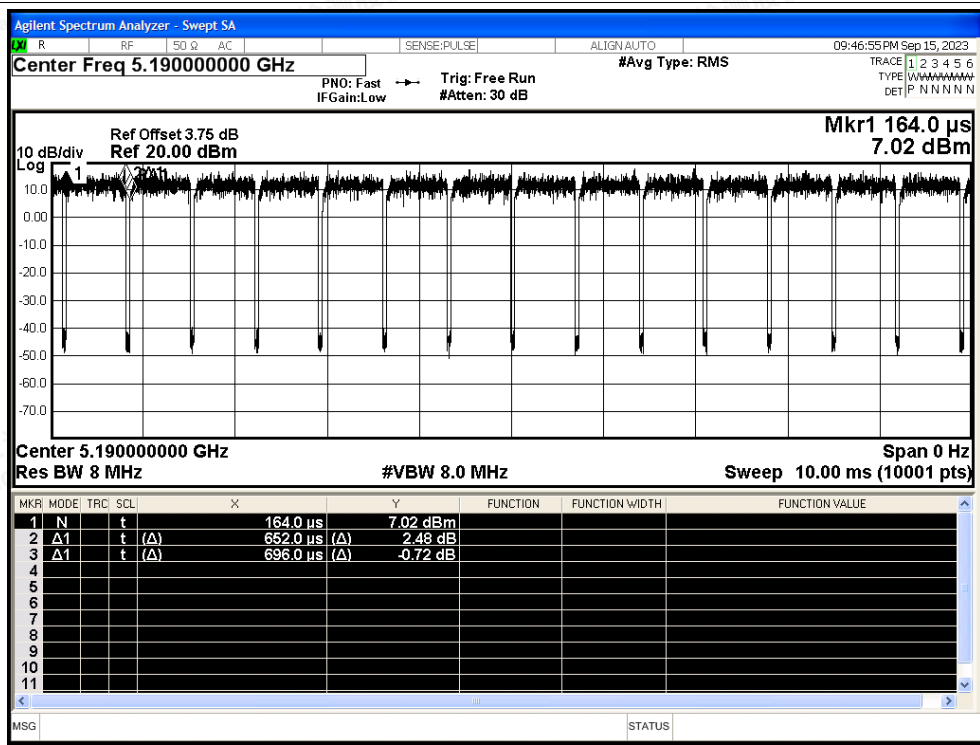




Duty Cycle NVNT ac20 5240MHz Ant0

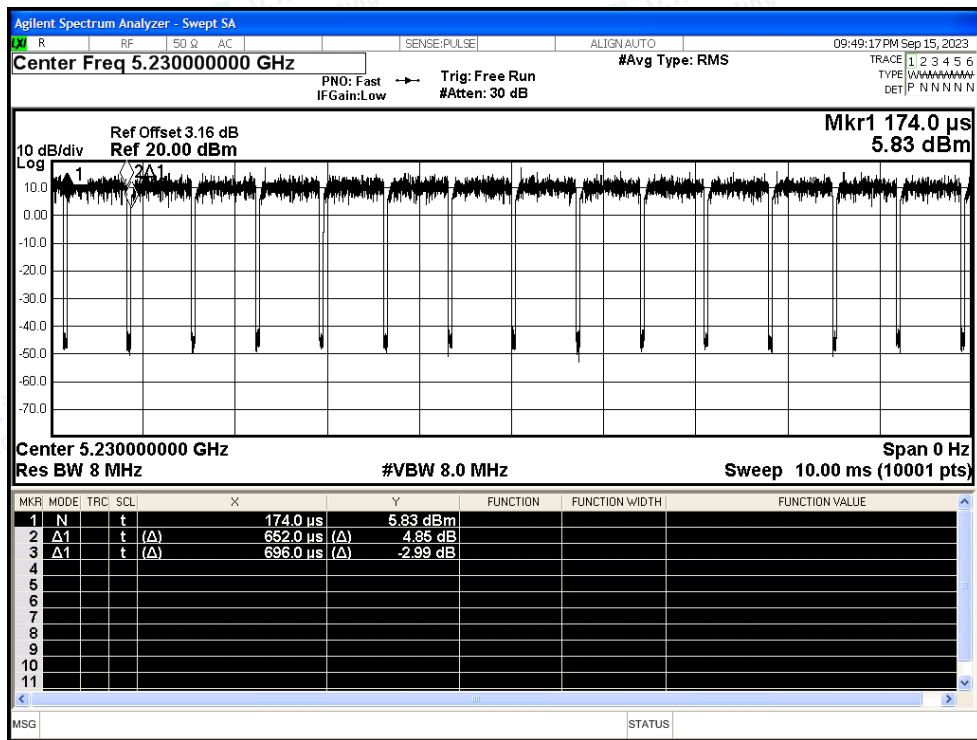


Duty Cycle NVNT ac40 5190MHz Ant0

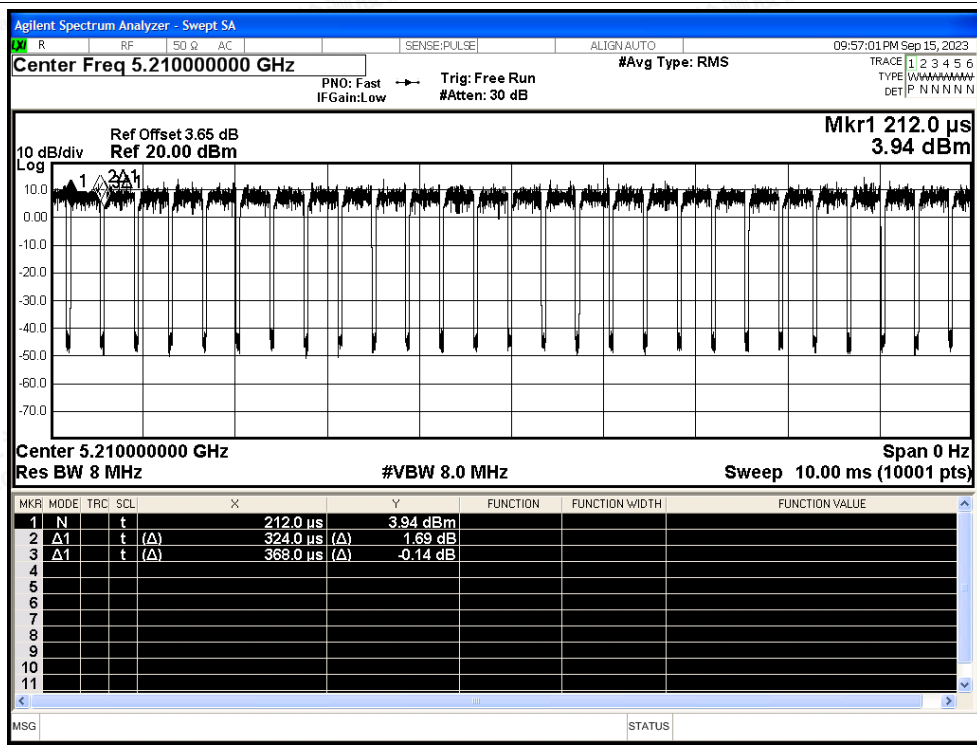


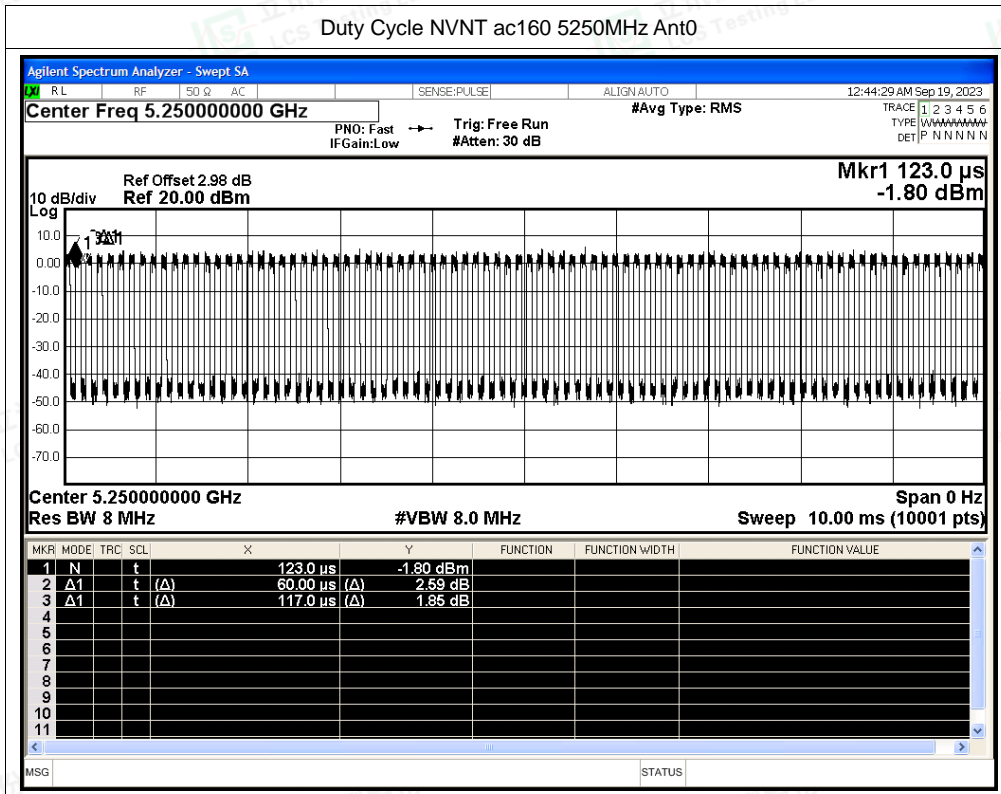


Duty Cycle NVNT ac40 5230MHz Ant0



Duty Cycle NVNT ac80 5210MHz Ant0







Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.94	0.13	0.72
NVNT	a	5200	Ant1	96.94	0.13	0.72
NVNT	a	5240	Ant1	96.94	0.13	0.72
NVNT	n20	5180	Ant1	96.7	0.15	0.78
NVNT	n20	5200	Ant1	96.7	0.15	0.78
NVNT	n20	5240	Ant1	96.62	0.15	0.78
NVNT	n40	5190	Ant1	93.53	0.29	1.57
NVNT	n40	5230	Ant1	93.54	0.29	1.57
NVNT	ac20	5180	Ant1	96.78	0.14	0.76
NVNT	ac20	5200	Ant1	96.76	0.14	0.76
NVNT	ac20	5240	Ant1	96.76	0.14	0.76
NVNT	ac40	5190	Ant1	93.68	0.28	1.53
NVNT	ac40	5230	Ant1	93.68	0.28	1.53
NVNT	ac80	5210	Ant1	88.08	0.55	3.08

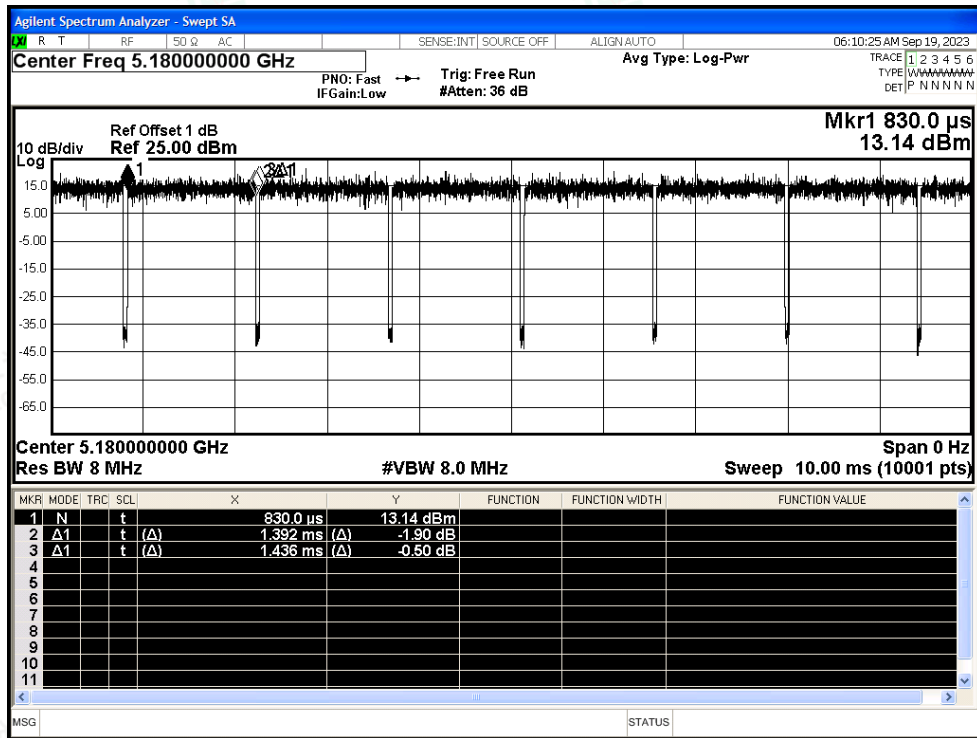


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

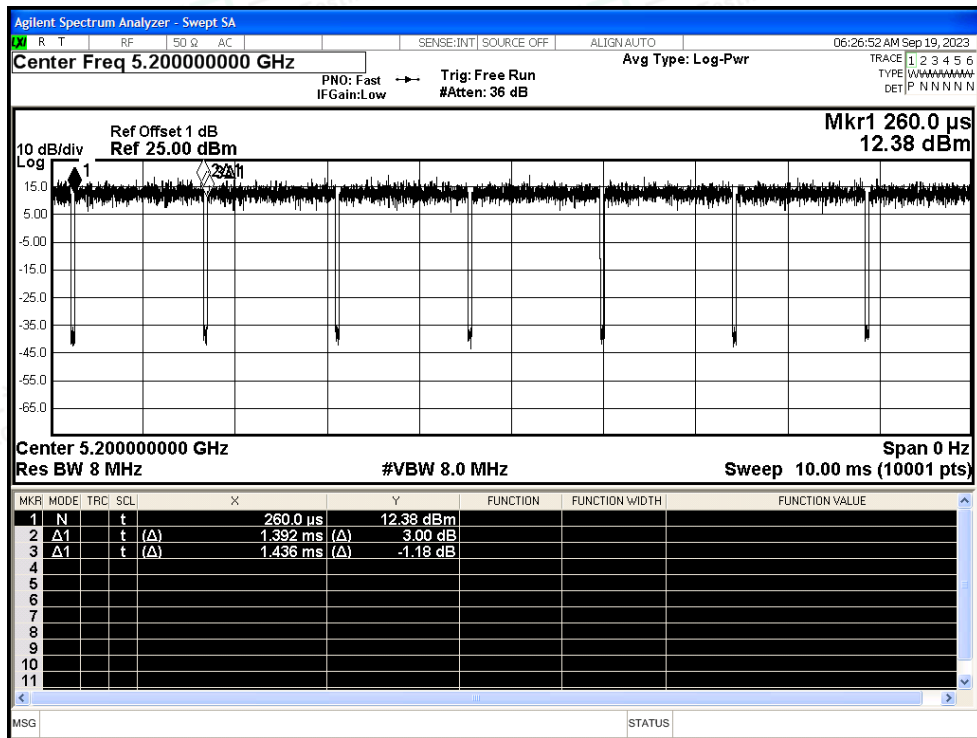


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

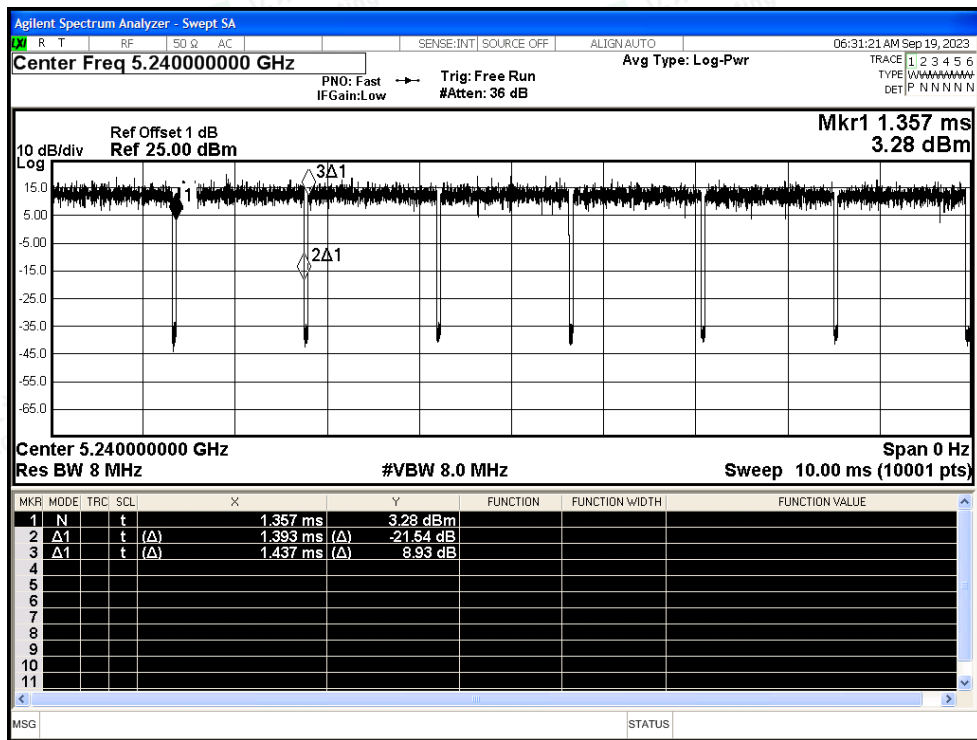


Duty Cycle NVNT a 5200MHz Ant1

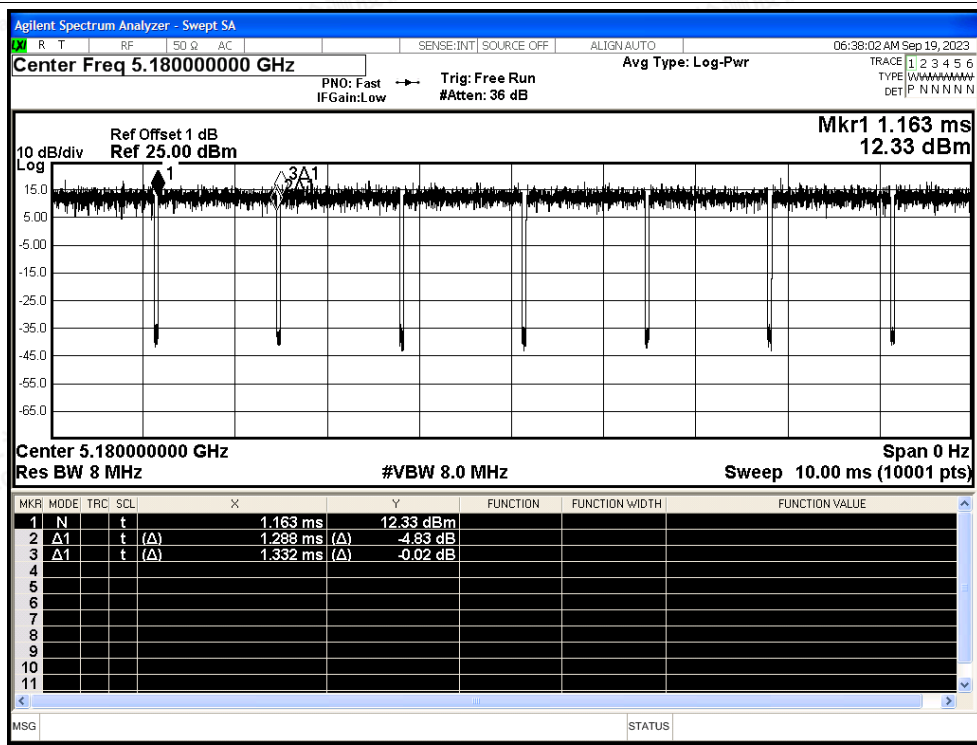




Duty Cycle NVNT a 5240MHz Ant1

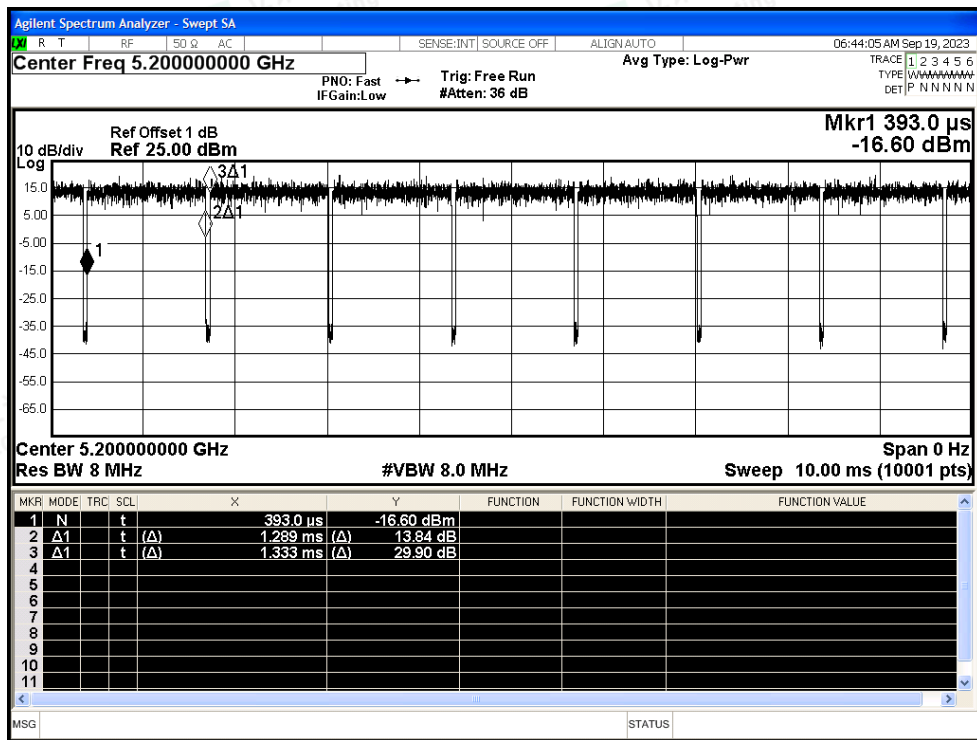


Duty Cycle NVNT n20 5180MHz Ant1

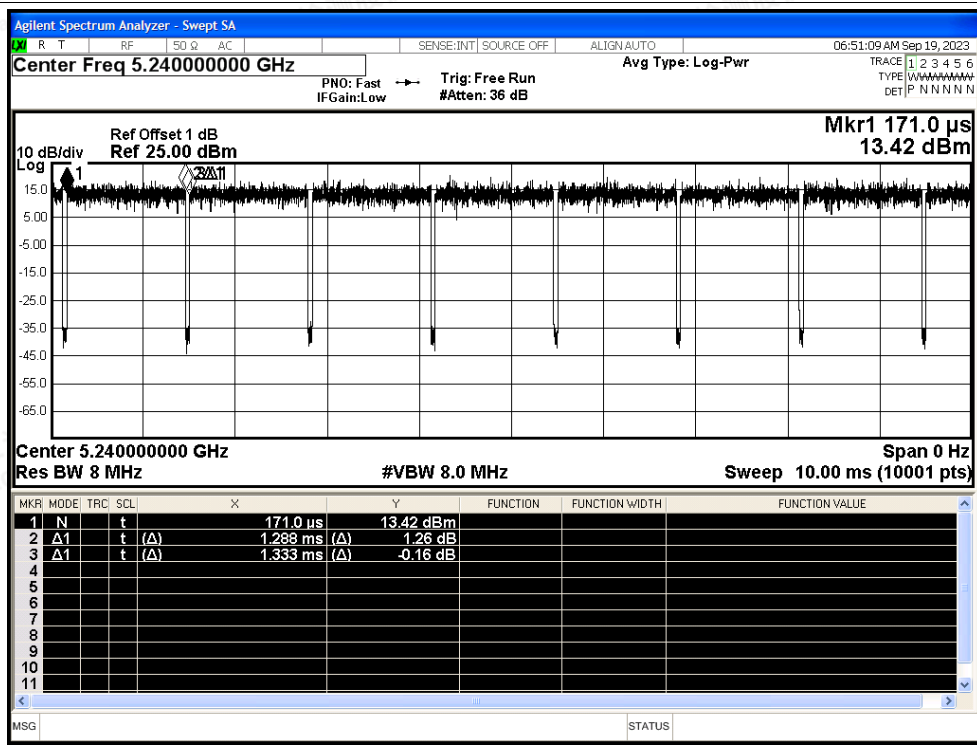




Duty Cycle NVNT n20 5200MHz Ant1

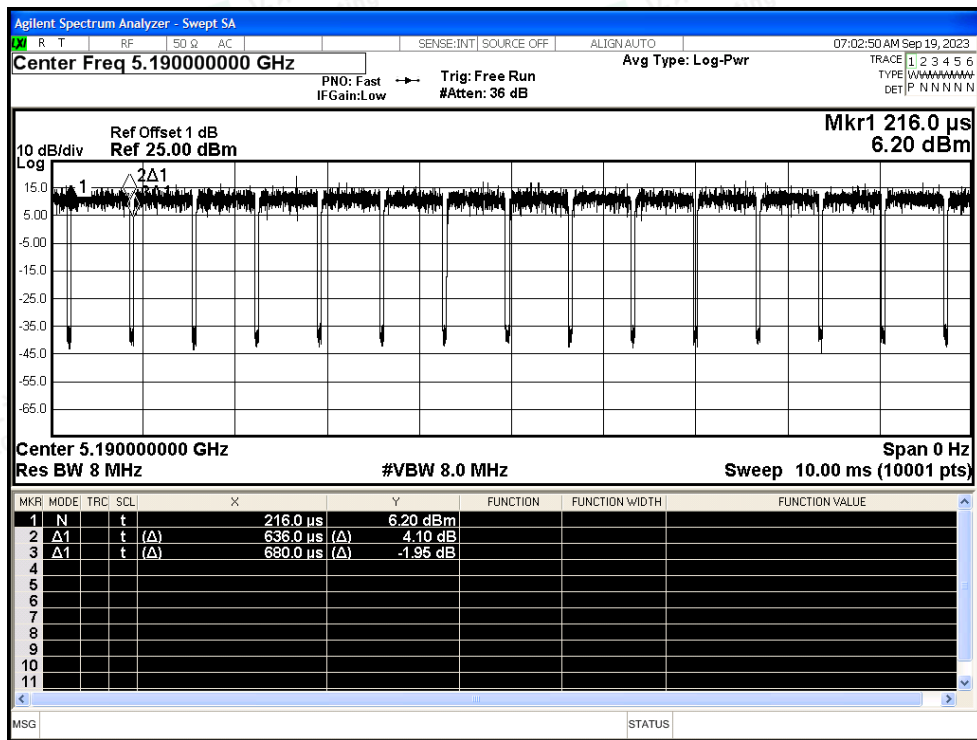


Duty Cycle NVNT n20 5240MHz Ant1

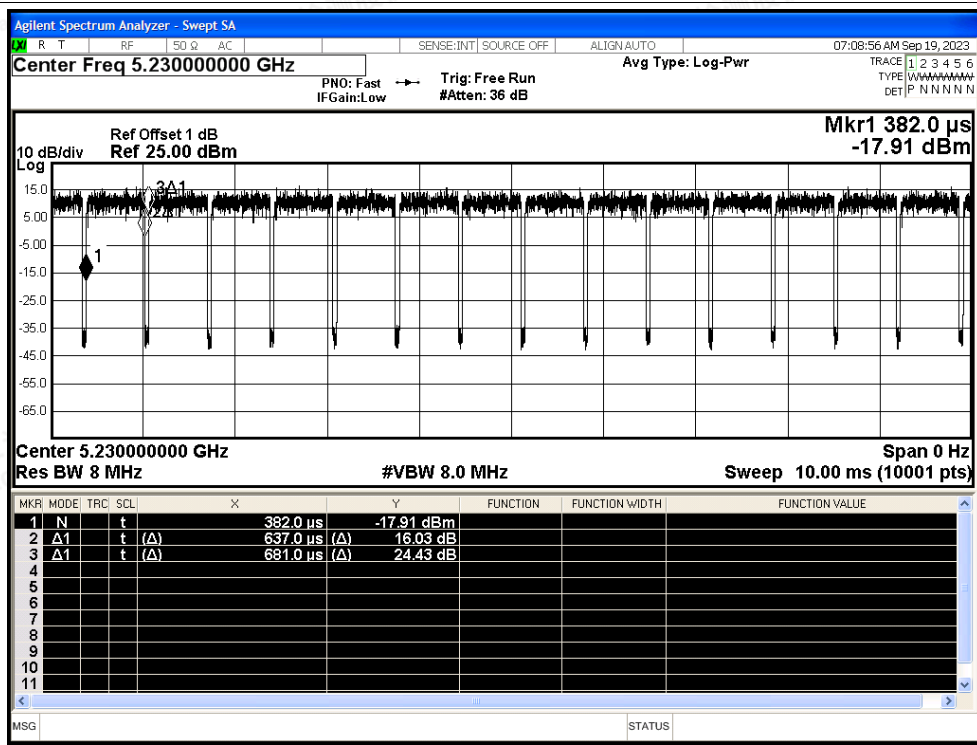




Duty Cycle NVNT n40 5190MHz Ant1

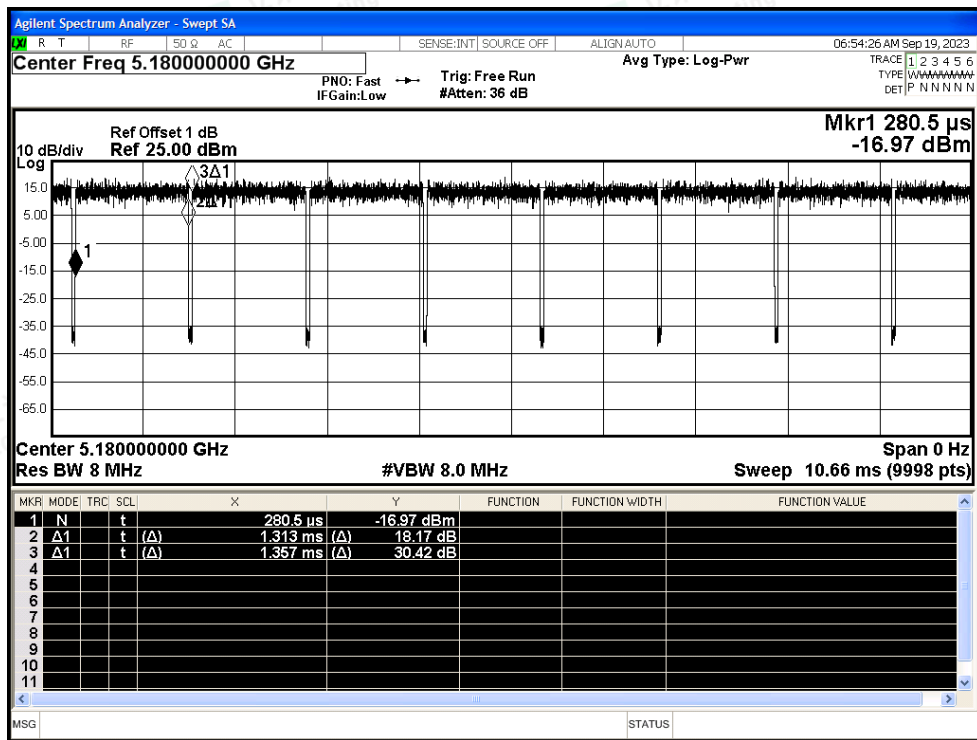


Duty Cycle NVNT n40 5230MHz Ant1

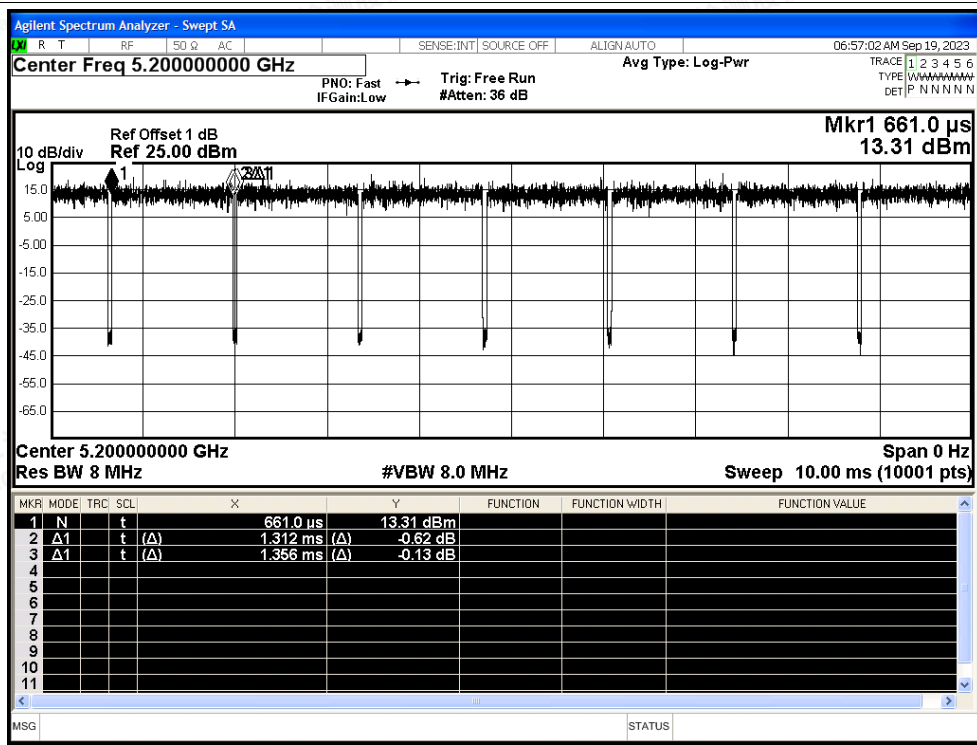




Duty Cycle NVNT ac20 5180MHz Ant1

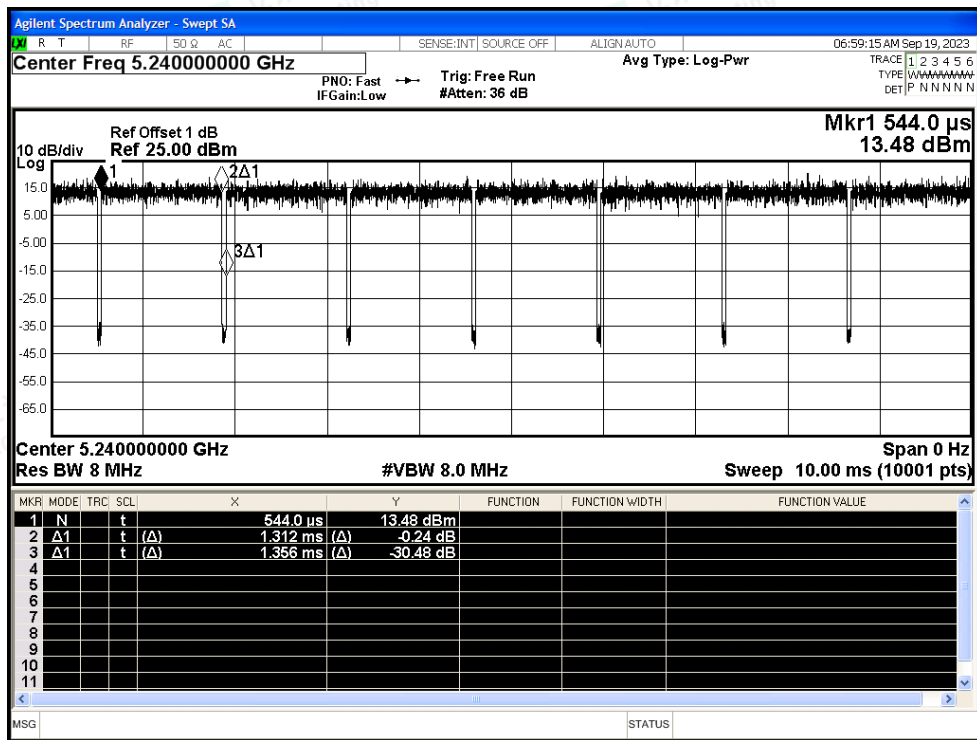


Duty Cycle NVNT ac20 5200MHz Ant1





Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1

