



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: projector

Test Model: P1

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

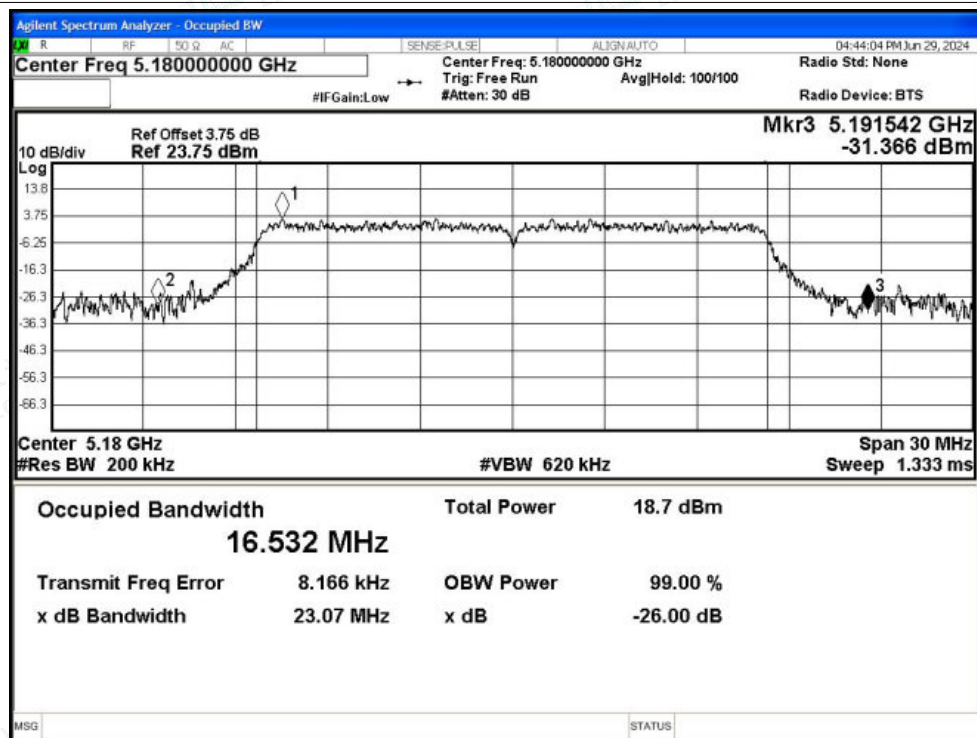
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.067	---	Pass
NVNT	a	5200	Ant1	22.734	---	Pass
NVNT	a	5240	Ant1	23.04	---	Pass
NVNT	n20	5180	Ant1	26.902	---	Pass
NVNT	n20	5200	Ant1	25.609	---	Pass
NVNT	n20	5240	Ant1	26.636	---	Pass
NVNT	n40	5190	Ant1	48.08	---	Pass
NVNT	n40	5230	Ant1	47.441	---	Pass
NVNT	ac20	5180	Ant1	28.072	---	Pass
NVNT	ac20	5200	Ant1	25.077	---	Pass
NVNT	ac20	5240	Ant1	26.663	---	Pass
NVNT	ac40	5190	Ant1	43.266	---	Pass
NVNT	ac40	5230	Ant1	44.011	---	Pass
NVNT	ax20	5180	Ant1	28.994	---	Pass
NVNT	ax20	5200	Ant1	27.588	---	Pass
NVNT	ax20	5240	Ant1	27.547	---	Pass
NVNT	ax40	5190	Ant1	46.937	---	Pass
NVNT	ax40	5230	Ant1	43.109	---	Pass



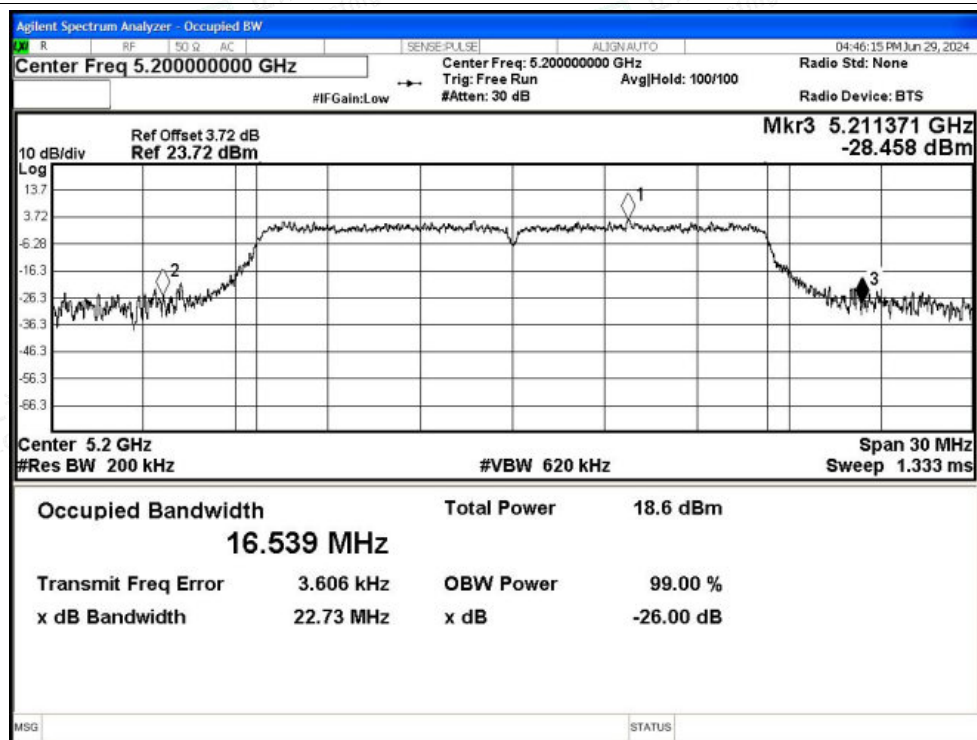


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

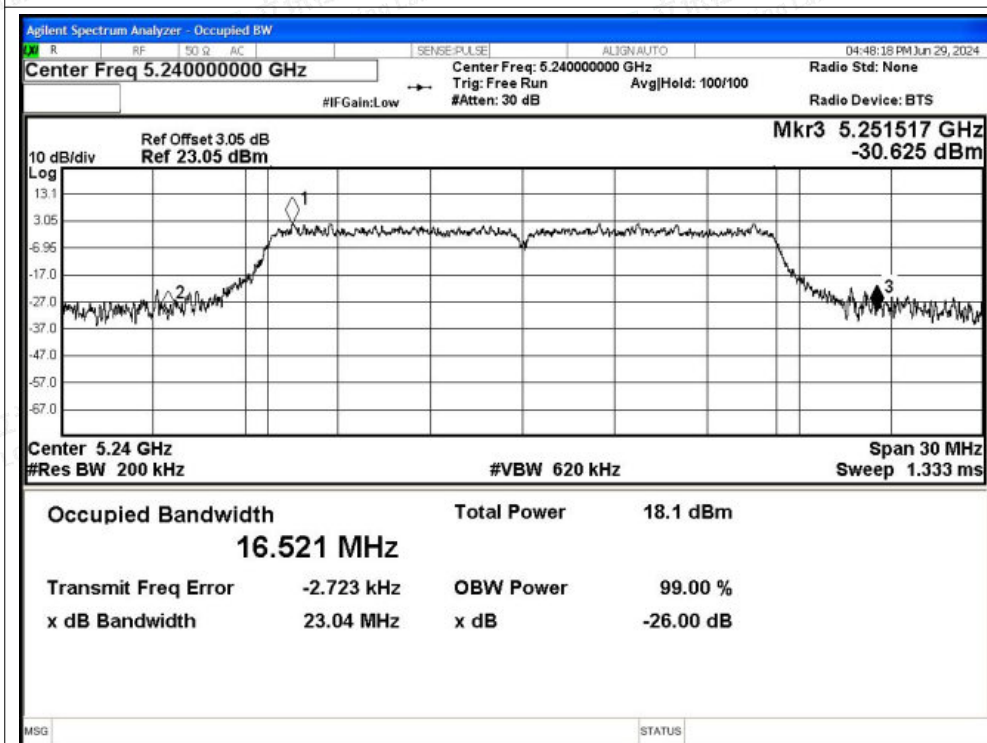
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

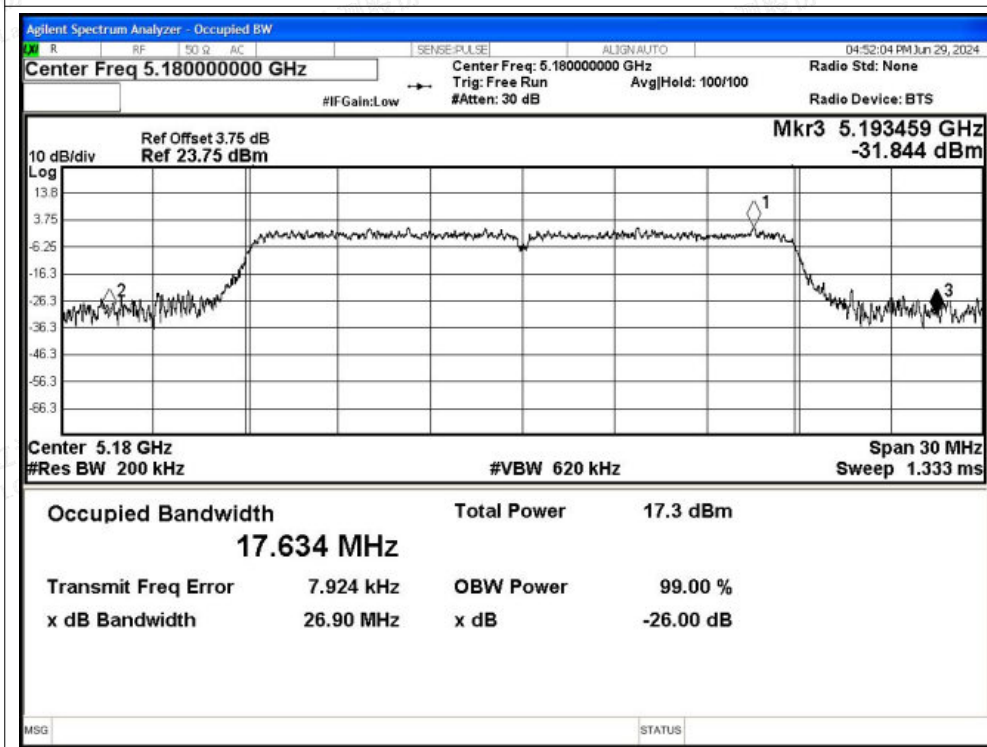
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

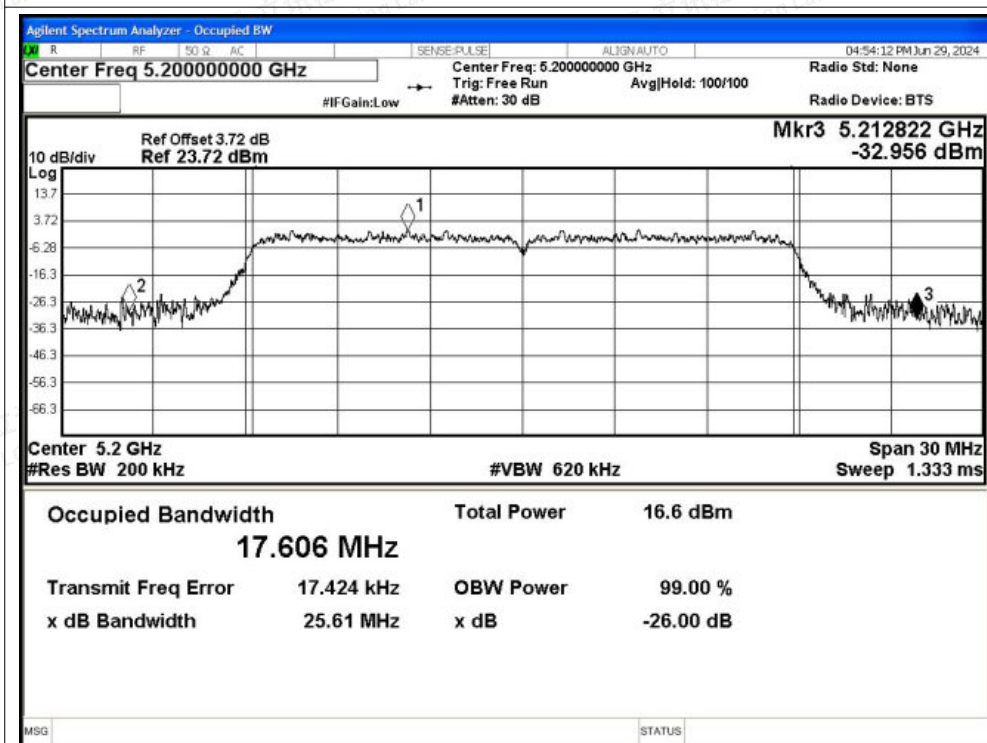
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

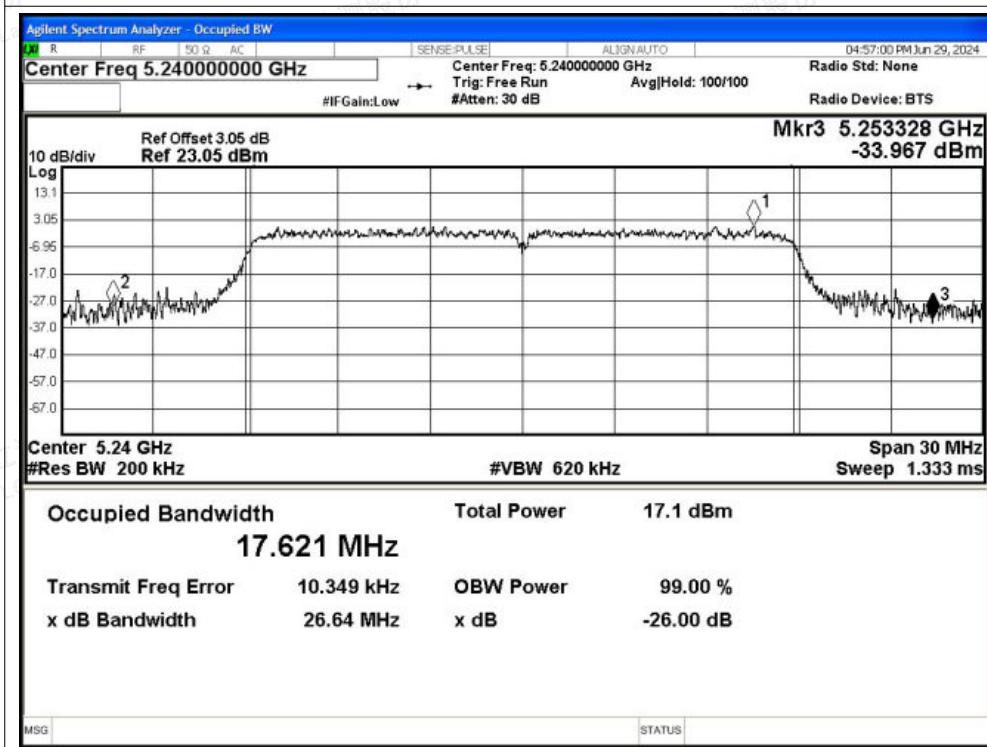
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

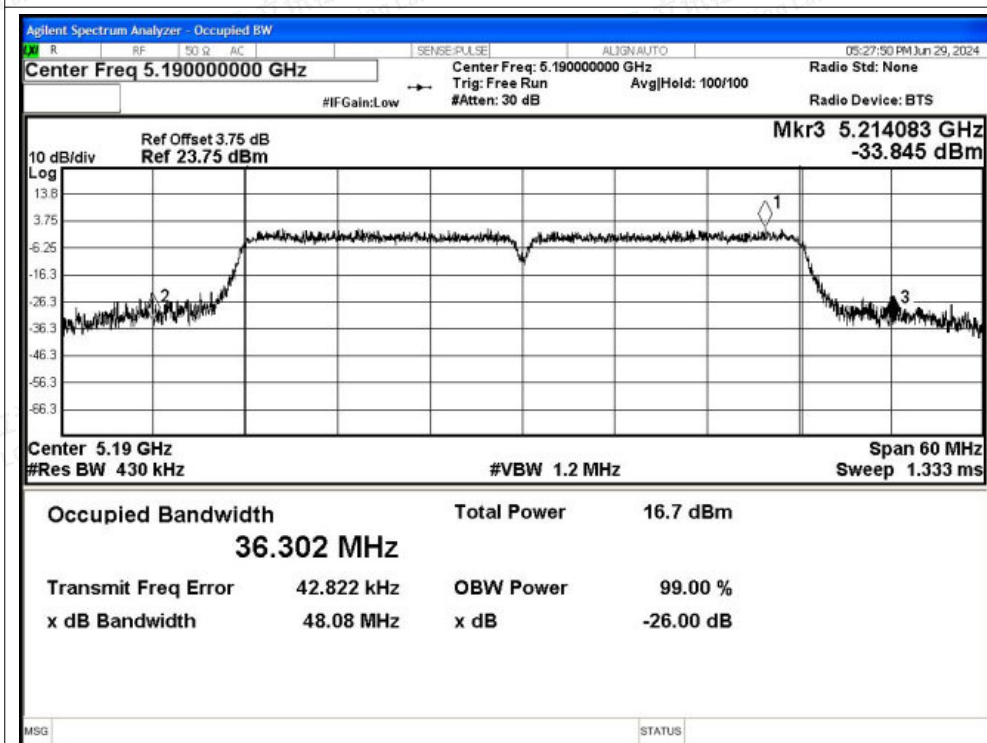
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

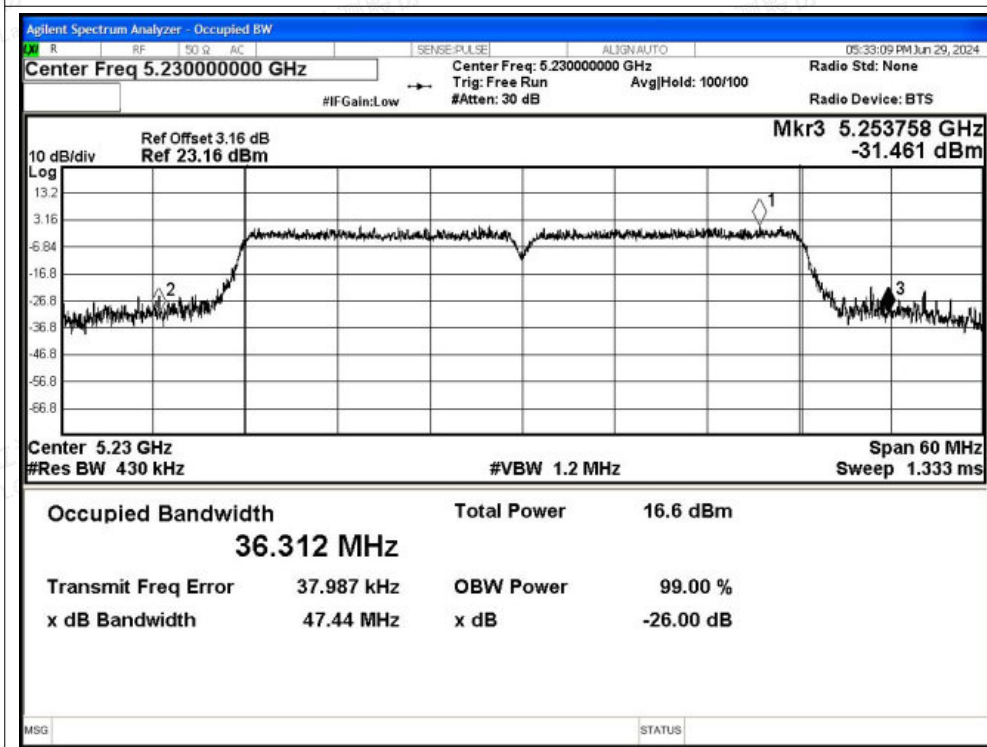
Scan code to check authenticity



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

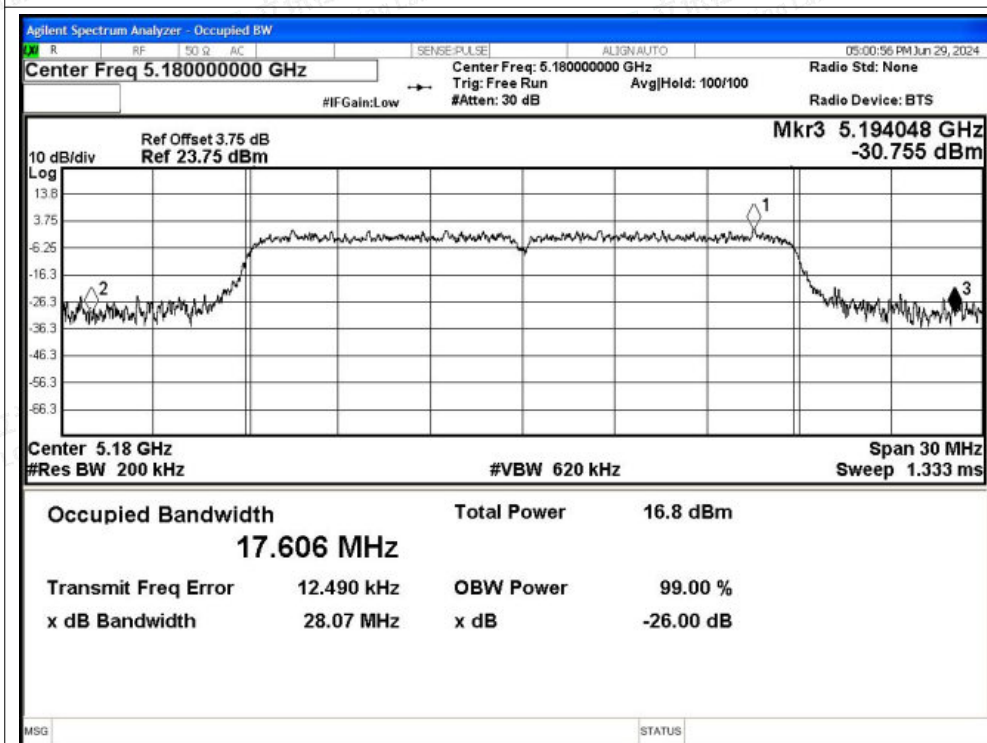
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

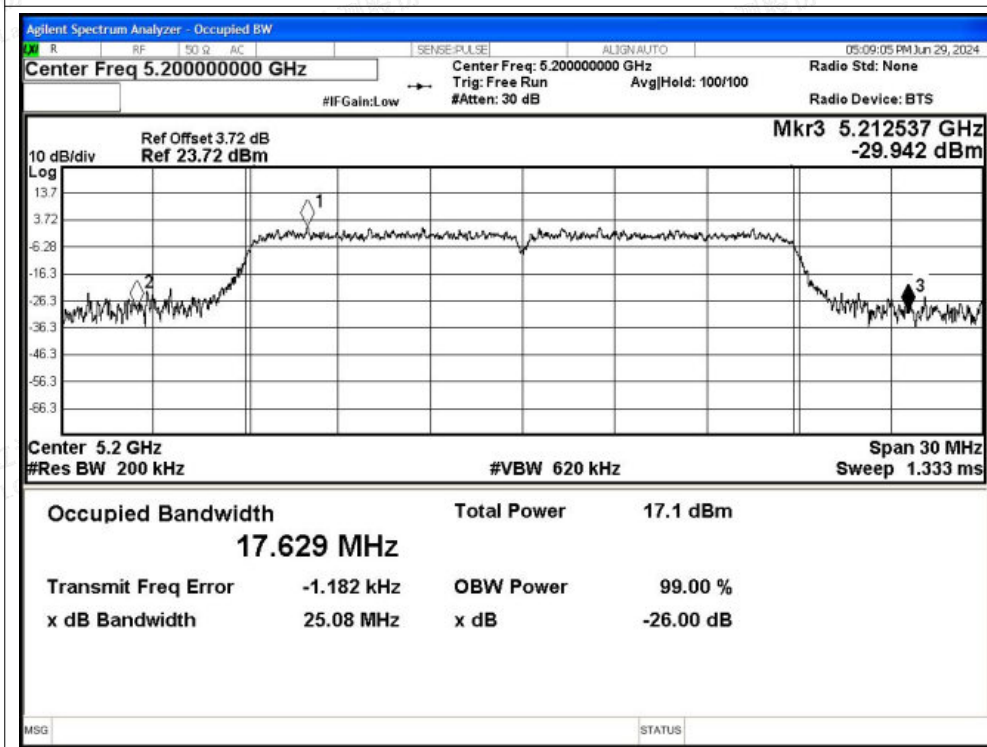
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5180MHz Ant1

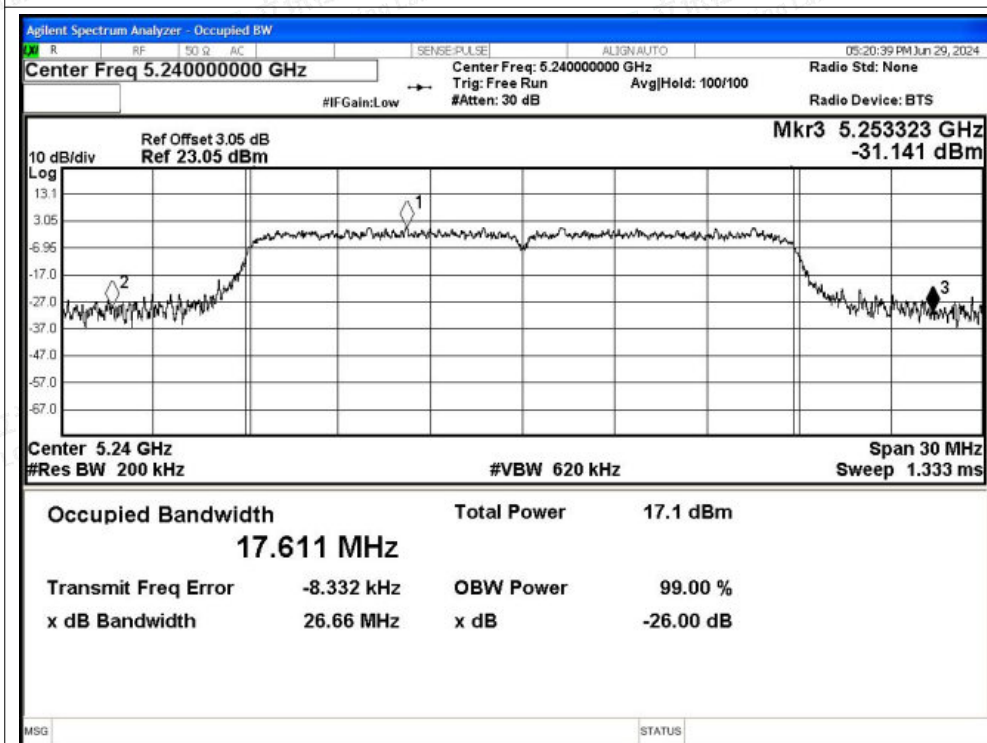


-26dB Bandwidth NVNT ac20 5200MHz Ant1

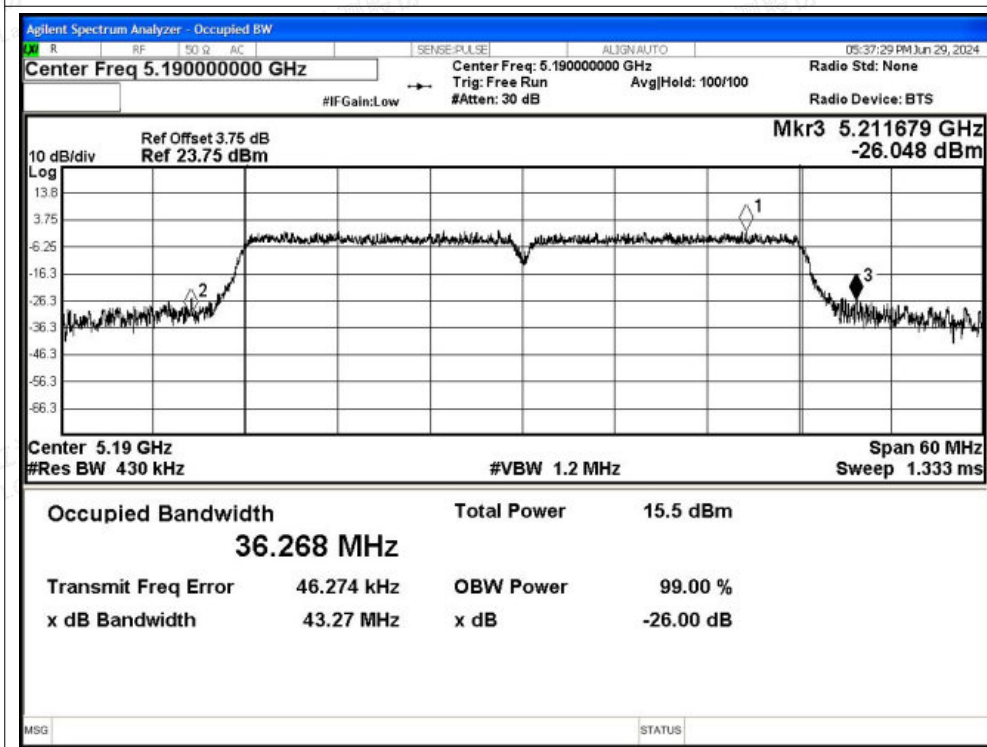




-26dB Bandwidth NVNT ac20 5240MHz Ant1

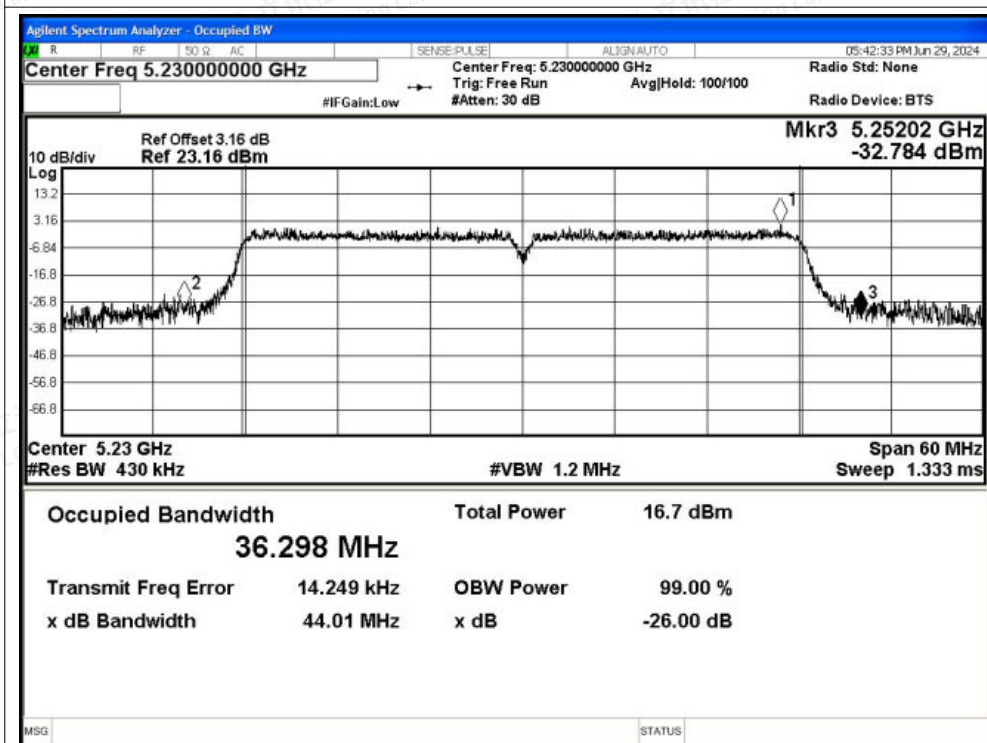


-26dB Bandwidth NVNT ac40 5190MHz Ant1

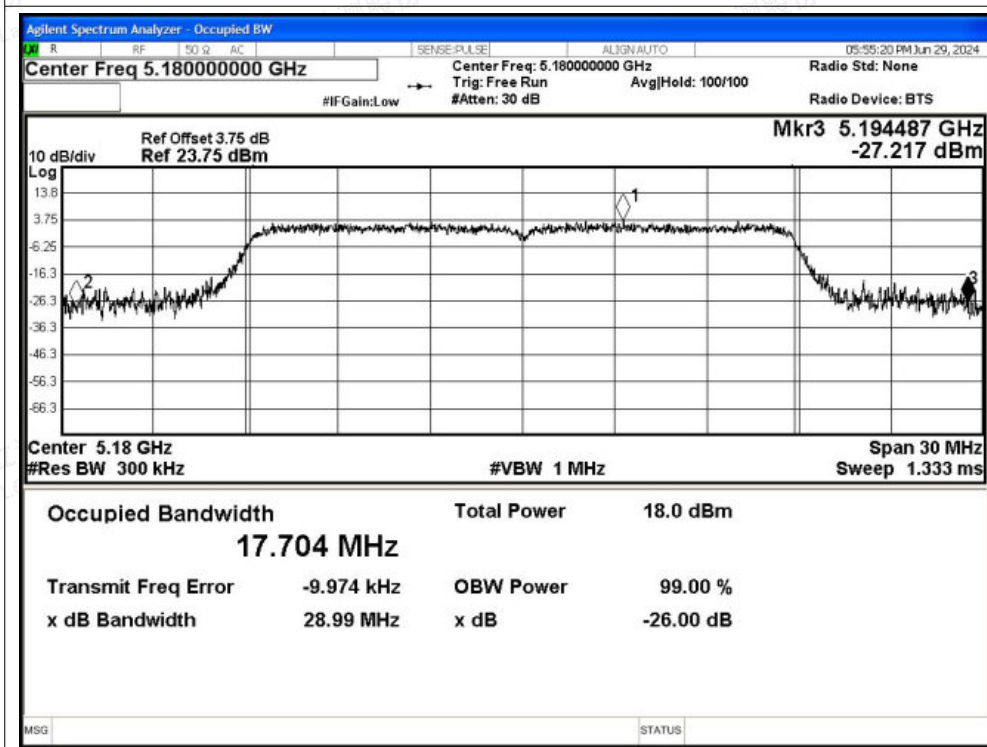




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ax20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

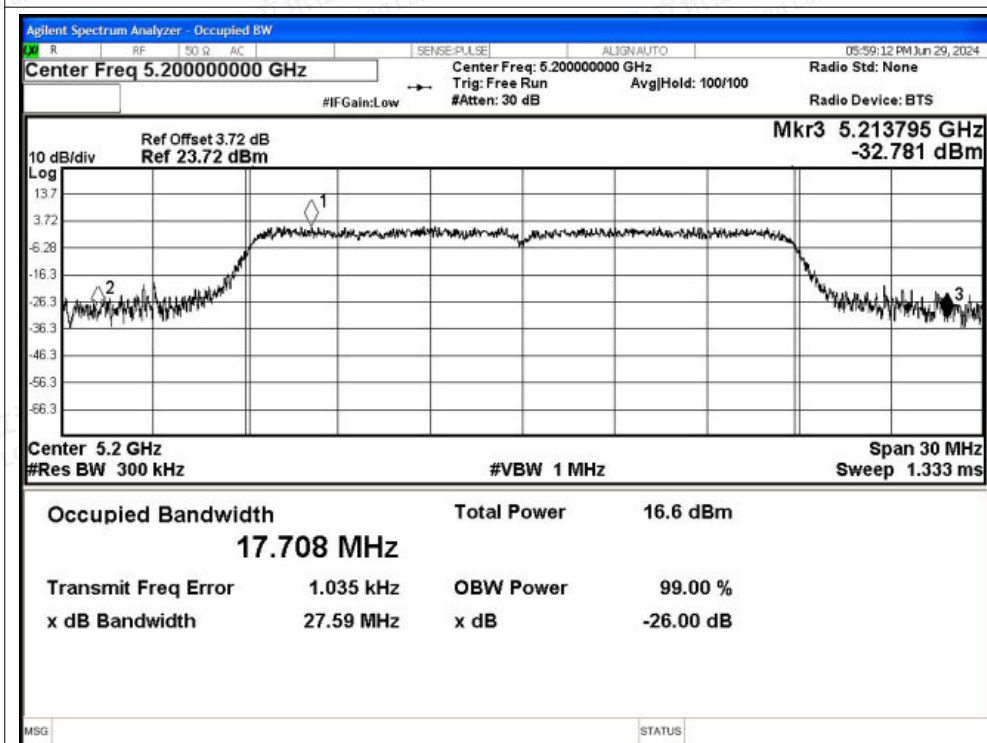
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

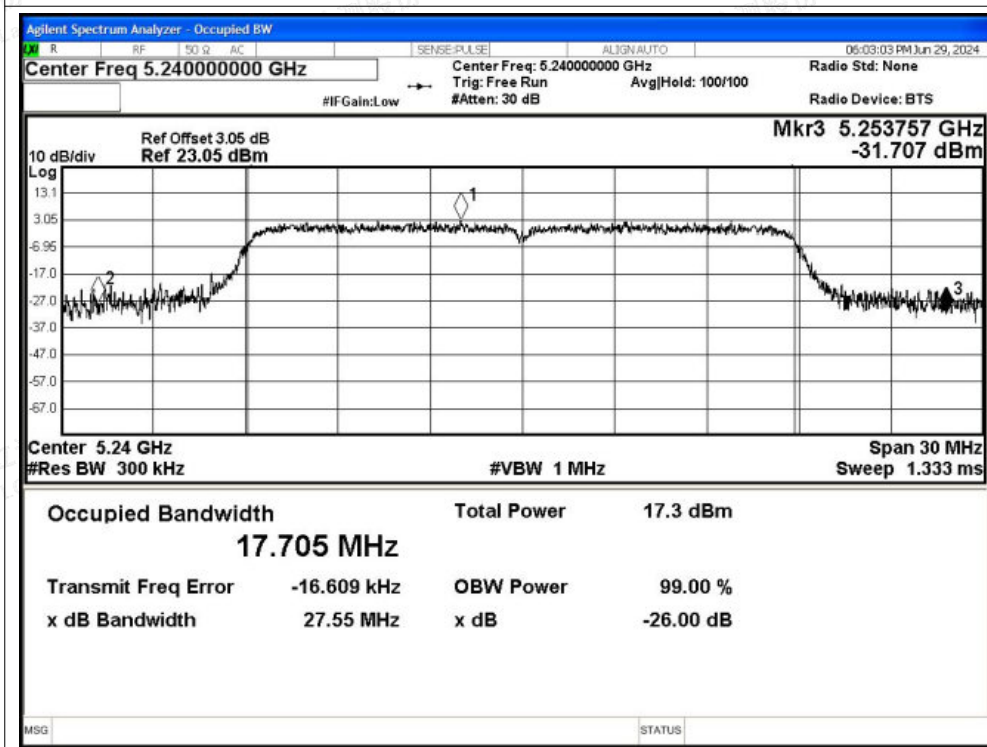
Scan code to check authenticity



-26dB Bandwidth NVNT ax20 5200MHz Ant1

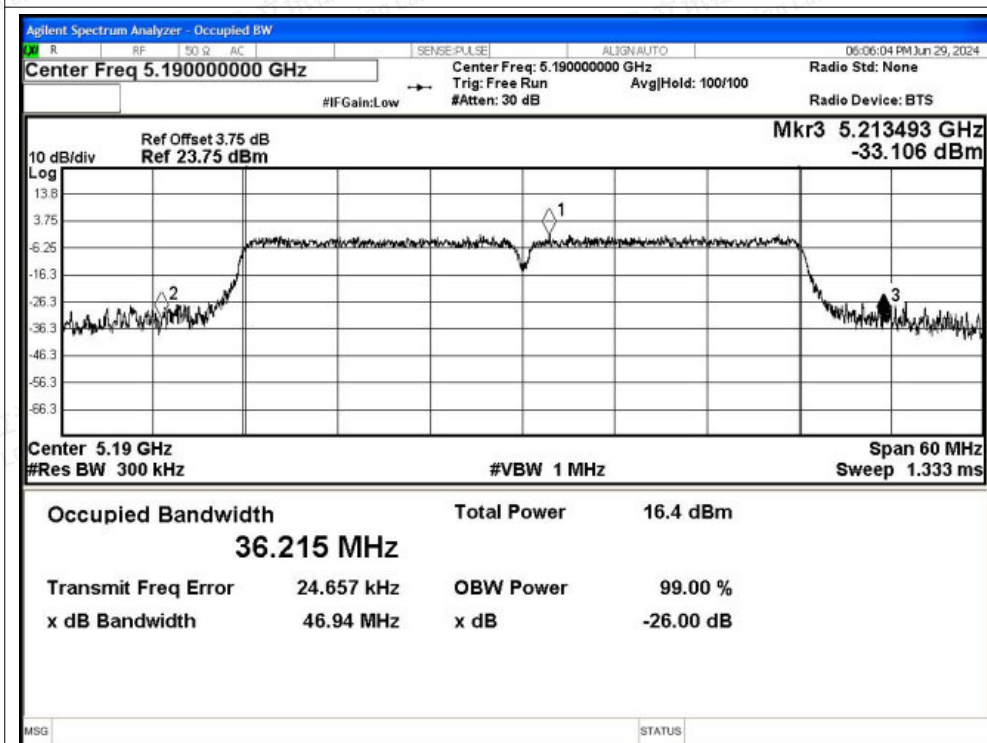


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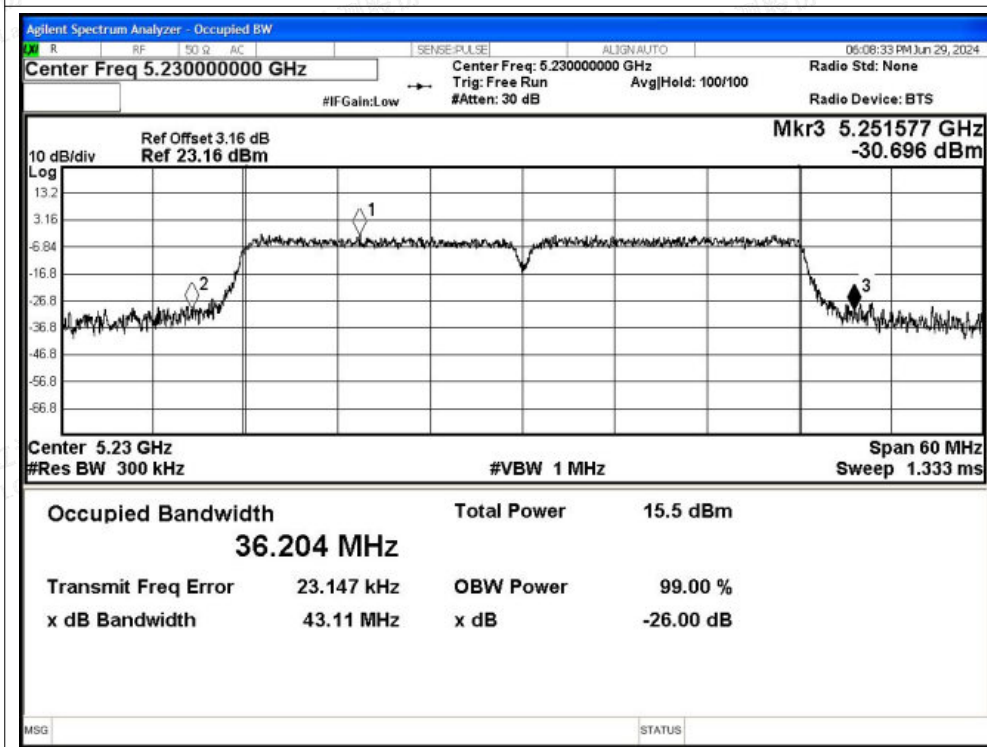




-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 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	12.87	0.24	13.11	24	Pass
NVNT	a	5200	Ant1	12.08	0.24	12.32	24	Pass
NVNT	a	5240	Ant1	12.29	0.24	12.53	24	Pass
NVNT	n20	5180	Ant1	11.48	0.28	11.76	24	Pass
NVNT	n20	5200	Ant1	11.11	0.28	11.39	24	Pass
NVNT	n20	5240	Ant1	11.46	0.28	11.74	24	Pass
NVNT	n40	5190	Ant1	10.63	0.44	11.07	24	Pass
NVNT	n40	5230	Ant1	10.65	0.45	11.10	24	Pass
NVNT	ac20	5180	Ant1	11.05	0.28	11.33	24	Pass
NVNT	ac20	5200	Ant1	11.38	0.28	11.66	24	Pass
NVNT	ac20	5240	Ant1	11.43	0.28	11.71	24	Pass
NVNT	ac40	5190	Ant1	10.45	0.44	10.89	24	Pass
NVNT	ac40	5230	Ant1	10.53	0.44	10.97	24	Pass
NVNT	ax20	5180	Ant1	11.1	0.28	11.38	24	Pass
NVNT	ax20	5200	Ant1	11.88	0.28	12.16	24	Pass
NVNT	ax20	5240	Ant1	11.6	0.28	11.88	24	Pass
NVNT	ax40	5190	Ant1	10.48	0.45	10.93	24	Pass
NVNT	ax40	5230	Ant1	9.53	0.45	9.98	24	Pass





D.3 Maximum Power Spectral Density Level

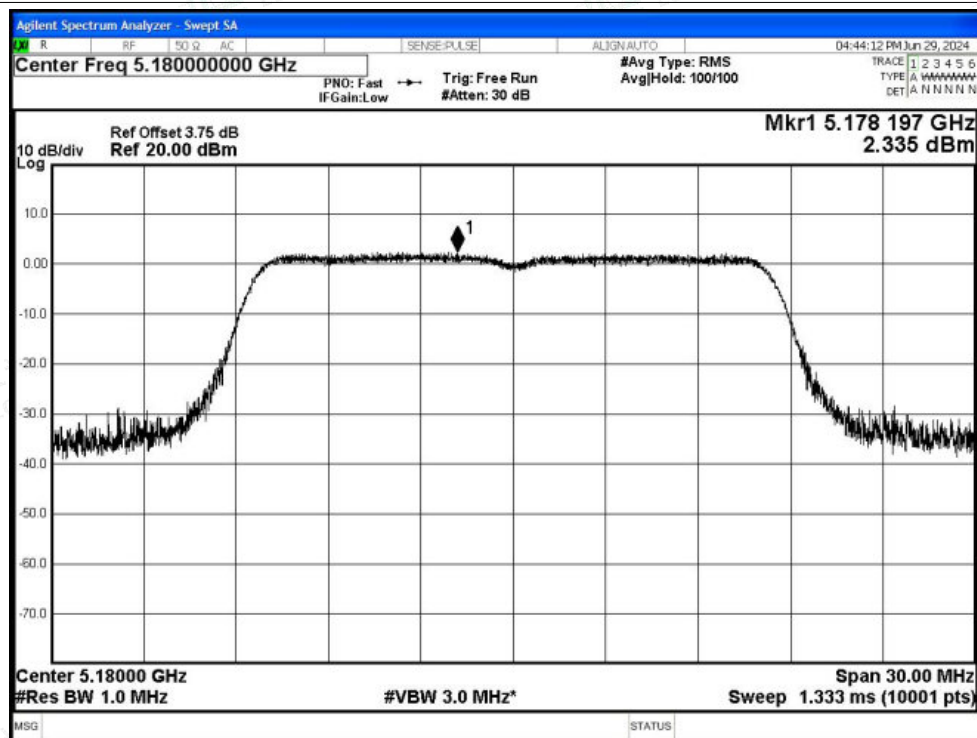
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD(dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.34	0.24	2.58	11	Pass
NVNT	a	5200	Ant1	2.4	0.24	2.64	11	Pass
NVNT	a	5240	Ant1	1.79	0.24	2.03	11	Pass
NVNT	n20	5180	Ant1	0.83	0.28	1.11	11	Pass
NVNT	n20	5200	Ant1	0.04	0.28	0.32	11	Pass
NVNT	n20	5240	Ant1	0.63	0.28	0.91	11	Pass
NVNT	n40	5190	Ant1	-3	0.44	-2.56	11	Pass
NVNT	n40	5230	Ant1	-3.14	0.45	-2.69	11	Pass
NVNT	ac20	5180	Ant1	0.09	0.28	0.37	11	Pass
NVNT	ac20	5200	Ant1	0.58	0.28	0.86	11	Pass
NVNT	ac20	5240	Ant1	0.5	0.28	0.78	11	Pass
NVNT	ac40	5190	Ant1	-4.42	0.44	-3.98	11	Pass
NVNT	ac40	5230	Ant1	-2.97	0.44	-2.53	11	Pass
NVNT	ax20	5180	Ant1	1.88	0.28	2.16	11	Pass
NVNT	ax20	5200	Ant1	0.11	0.28	0.39	11	Pass
NVNT	ax20	5240	Ant1	1.02	0.28	1.30	11	Pass
NVNT	ax40	5190	Ant1	-3.27	0.45	-2.82	11	Pass
NVNT	ax40	5230	Ant1	-4.3	0.45	-3.85	11	Pass



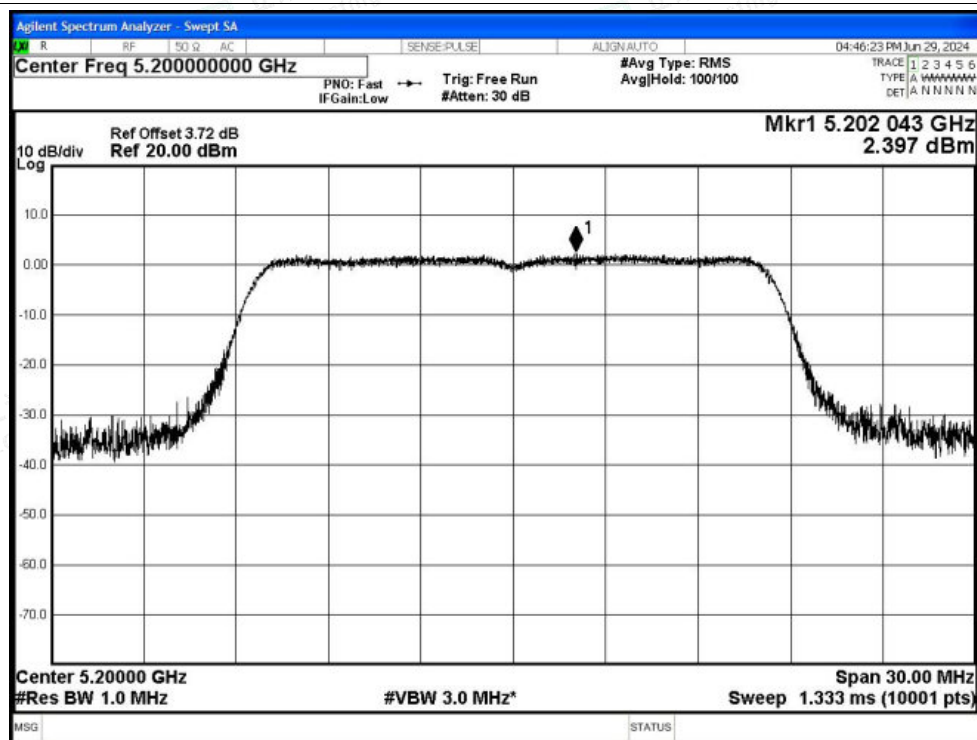


Test Graphs

PSD NVNT a 5180MHz Ant1

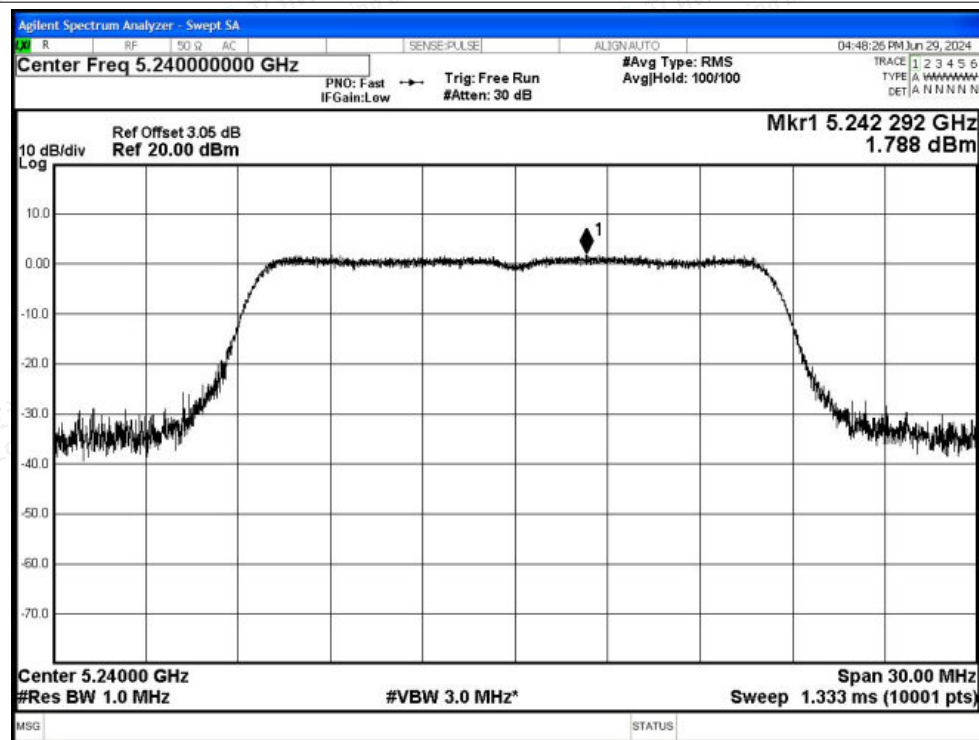


PSD NVNT a 5200MHz Ant1

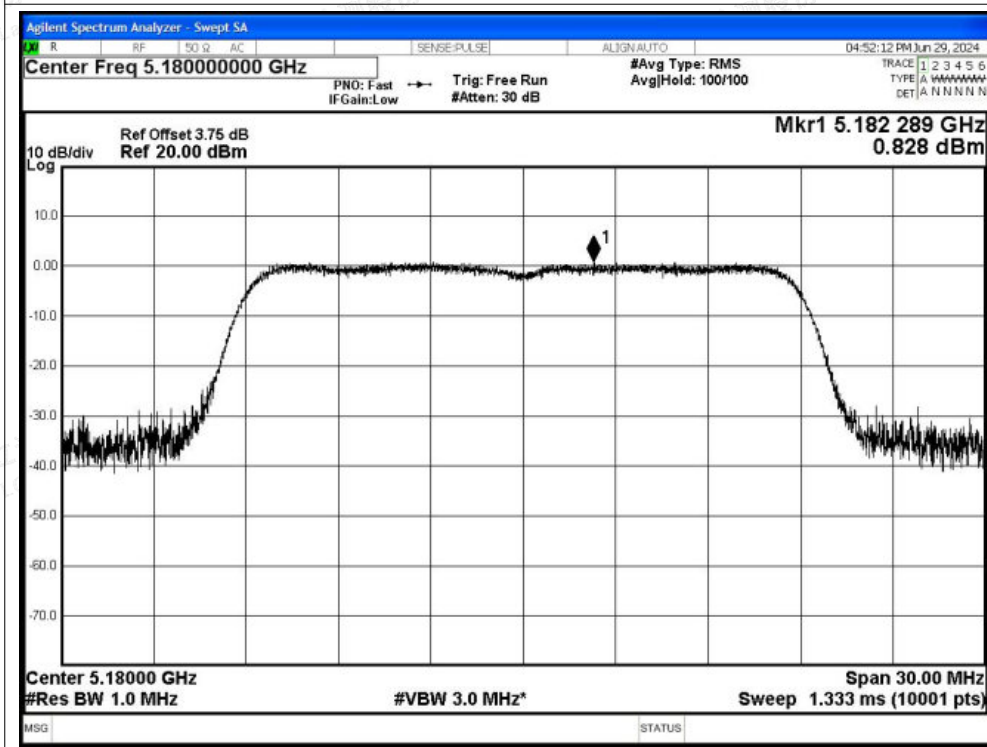




PSD NVNT a 5240MHz Ant1

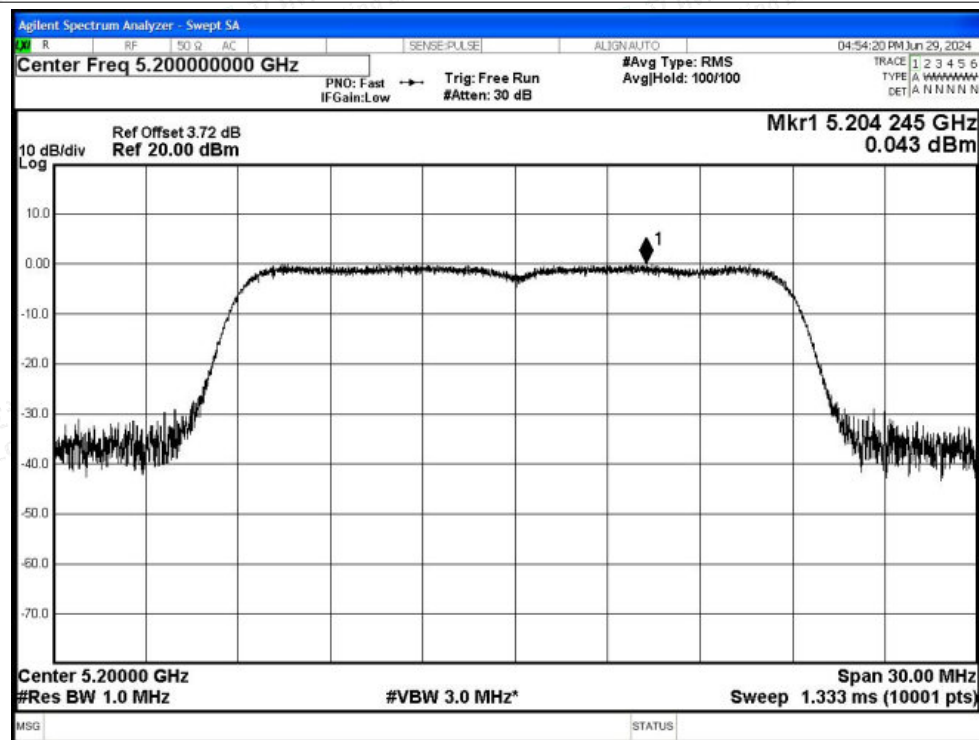


PSD NVNT n20 5180MHz Ant1

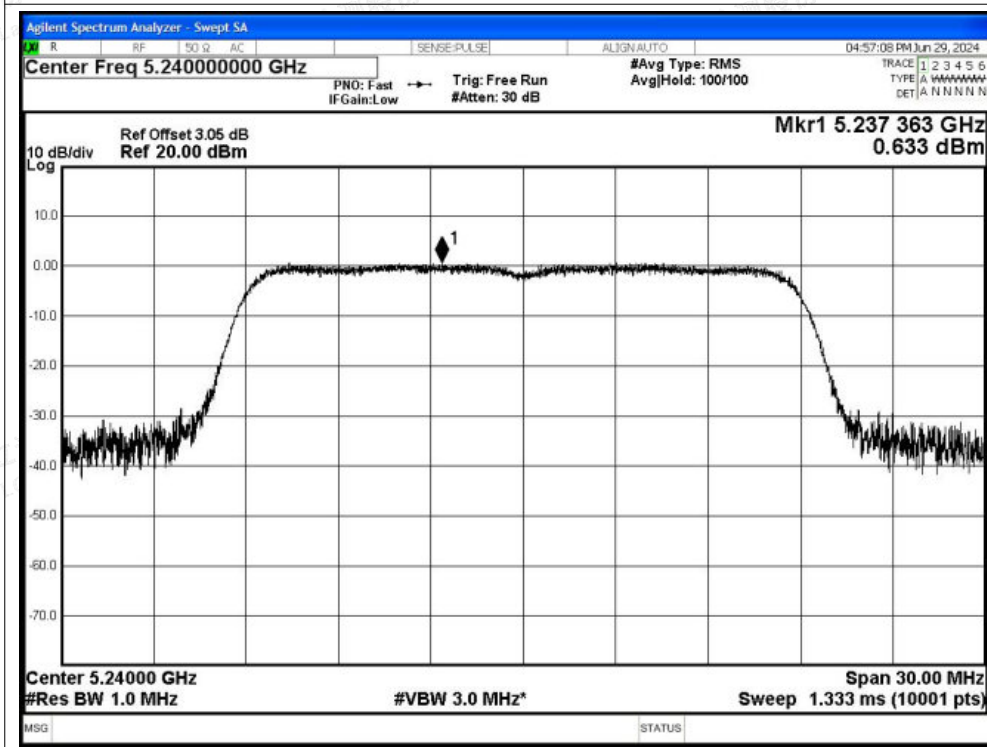




PSD NVNT n20 5200MHz Ant1

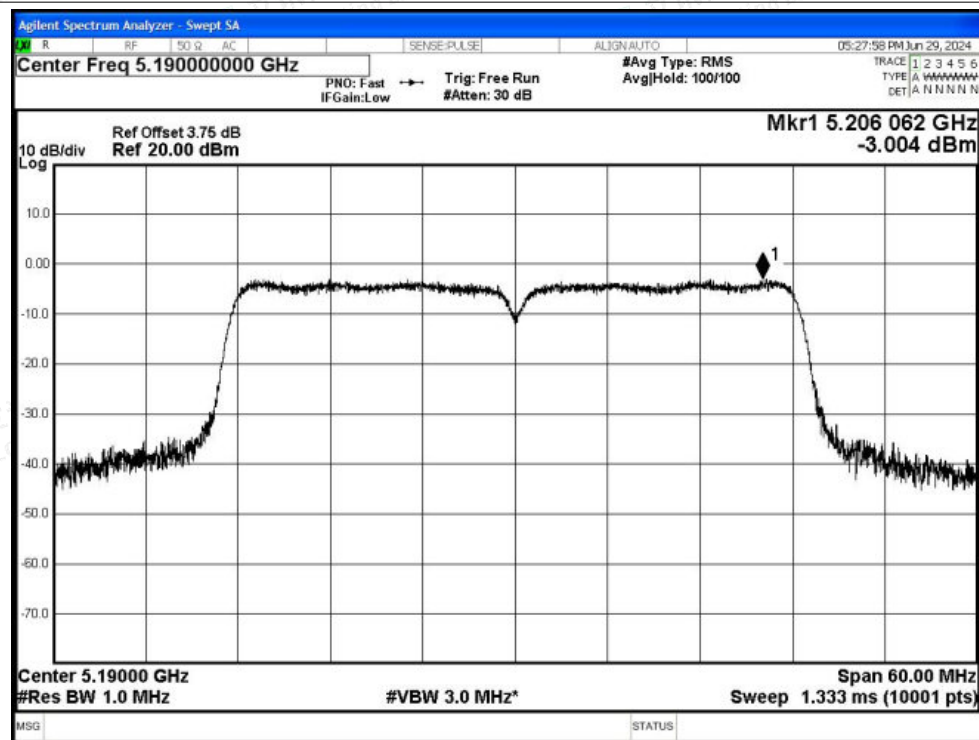


PSD NVNT n20 5240MHz Ant1

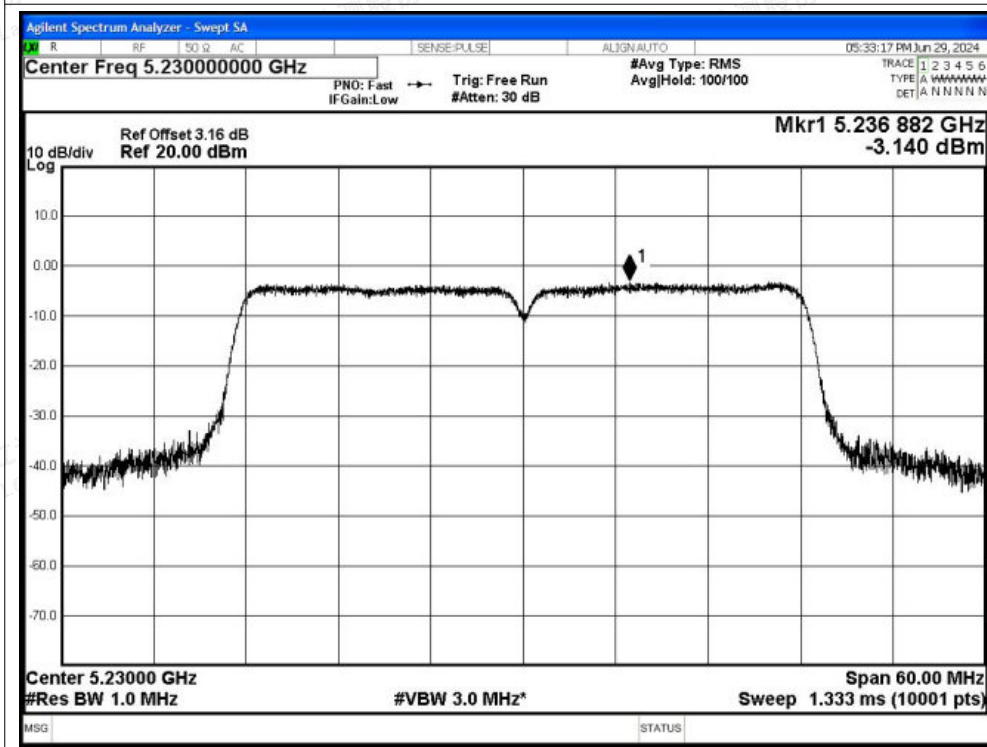




PSD NVNT n40 5190MHz Ant1

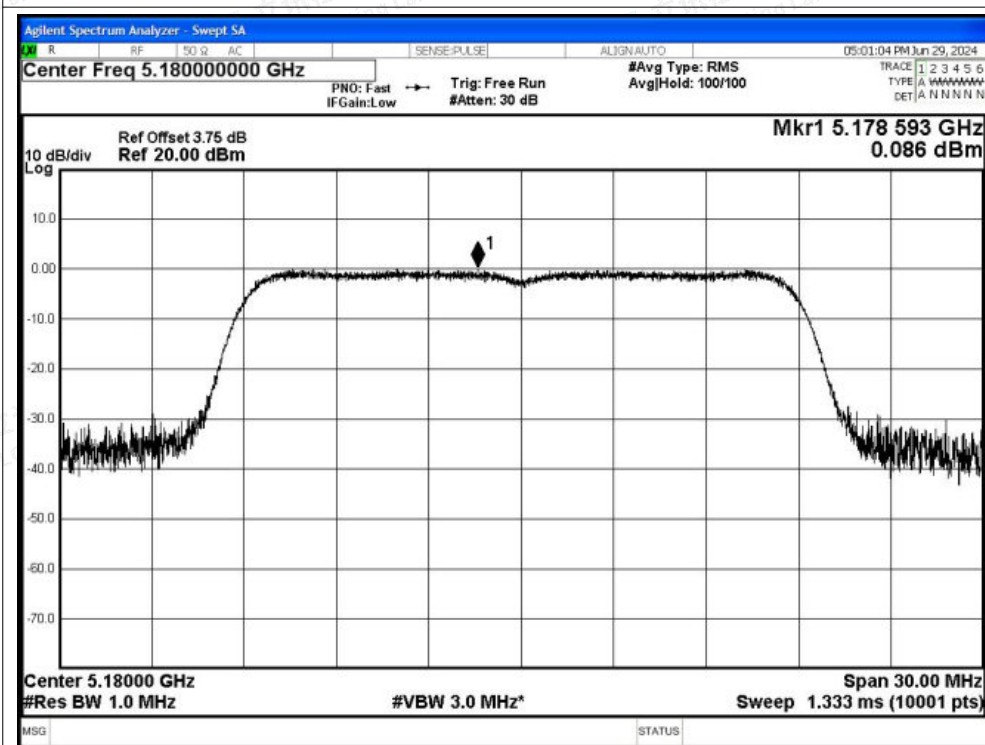


PSD NVNT n40 5230MHz Ant1

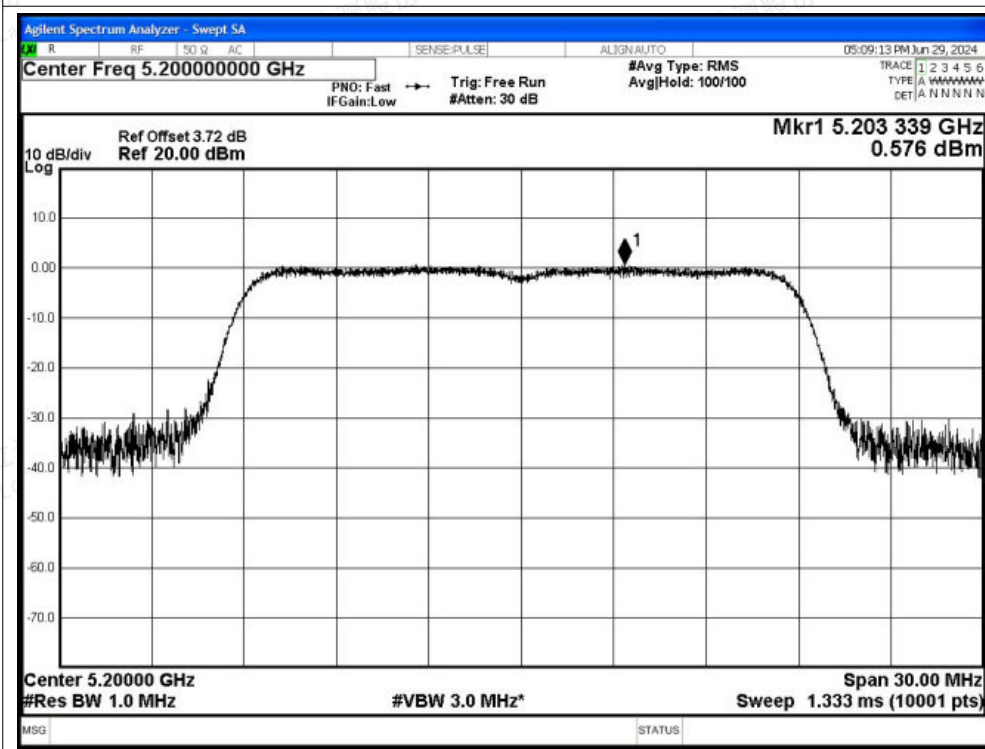




PSD NVNT ac20 5180MHz Ant1

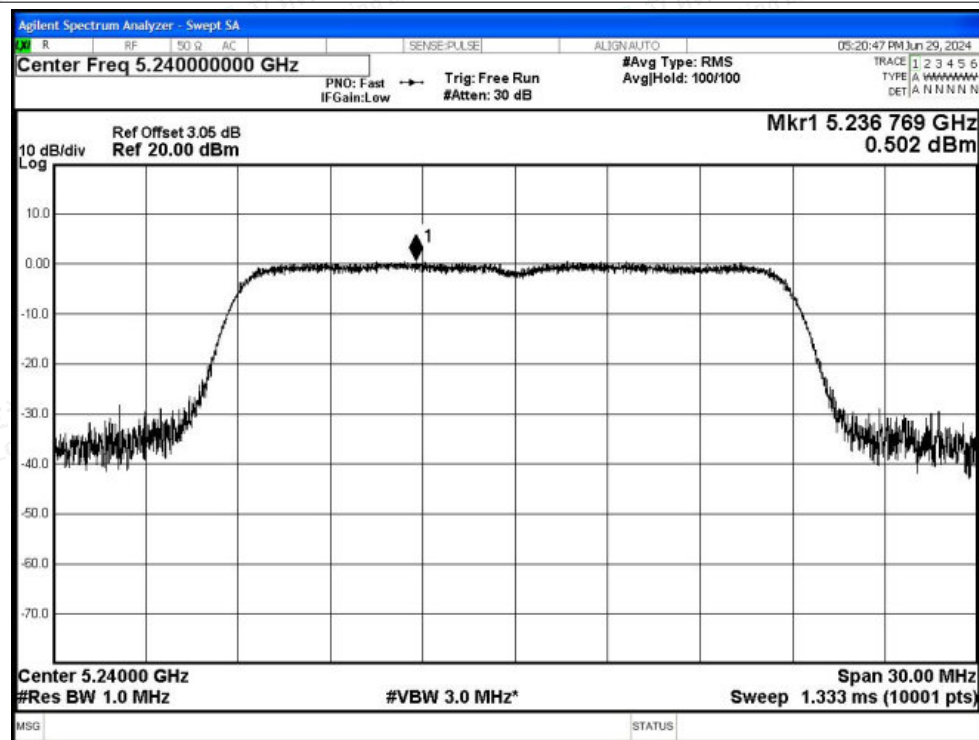


PSD NVNT ac20 5200MHz Ant1

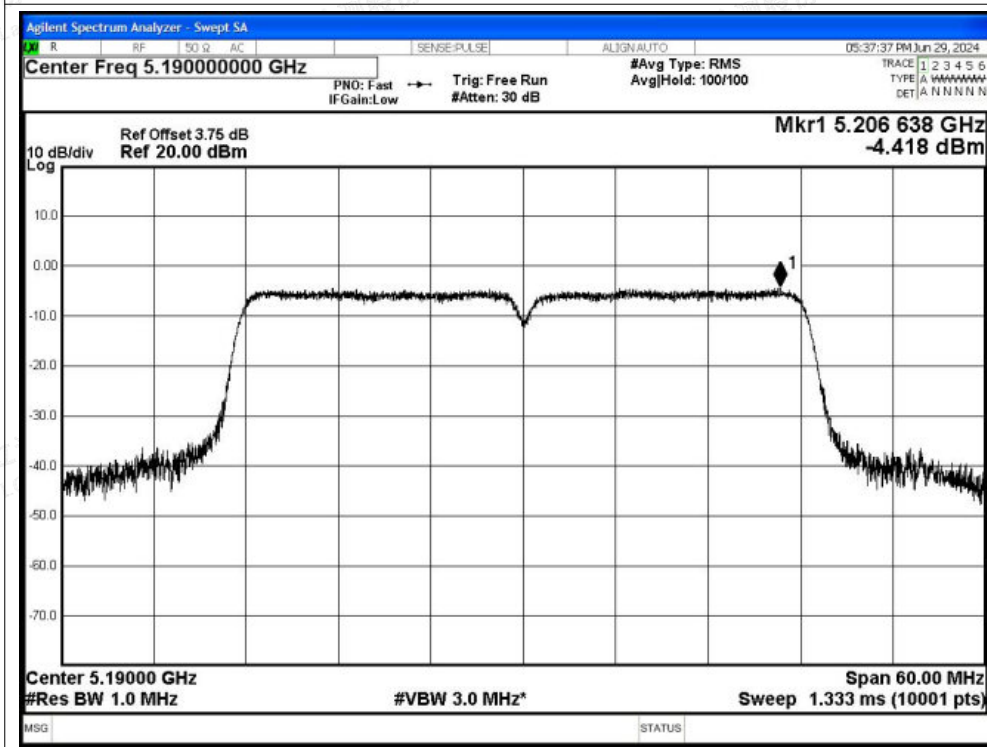




PSD NVNT ac20 5240MHz Ant1

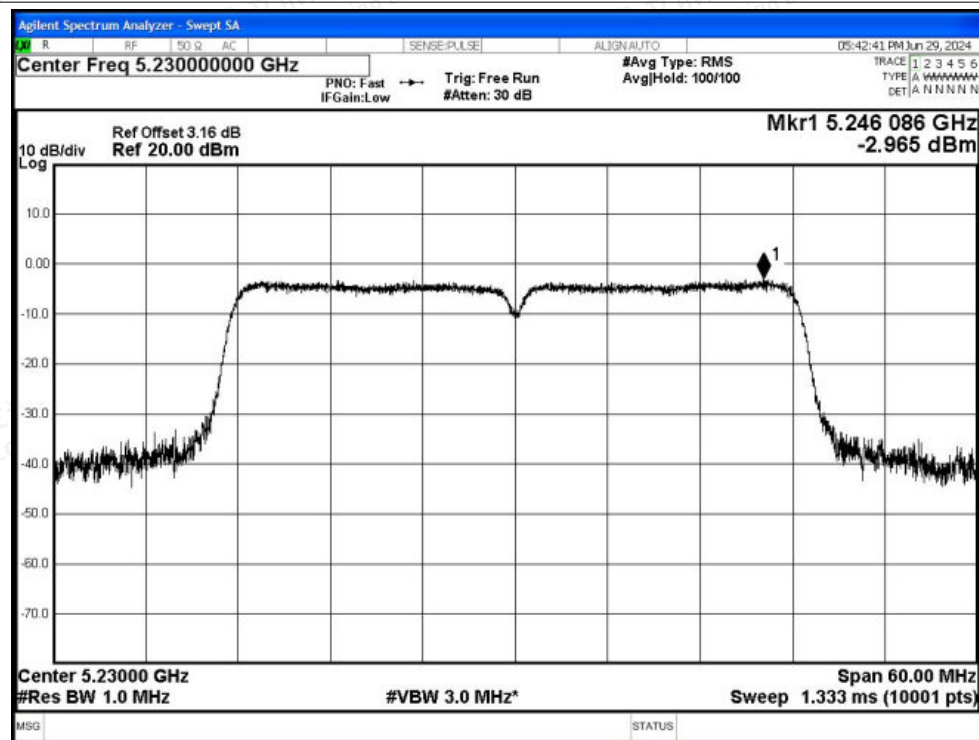


PSD NVNT ac40 5190MHz Ant1

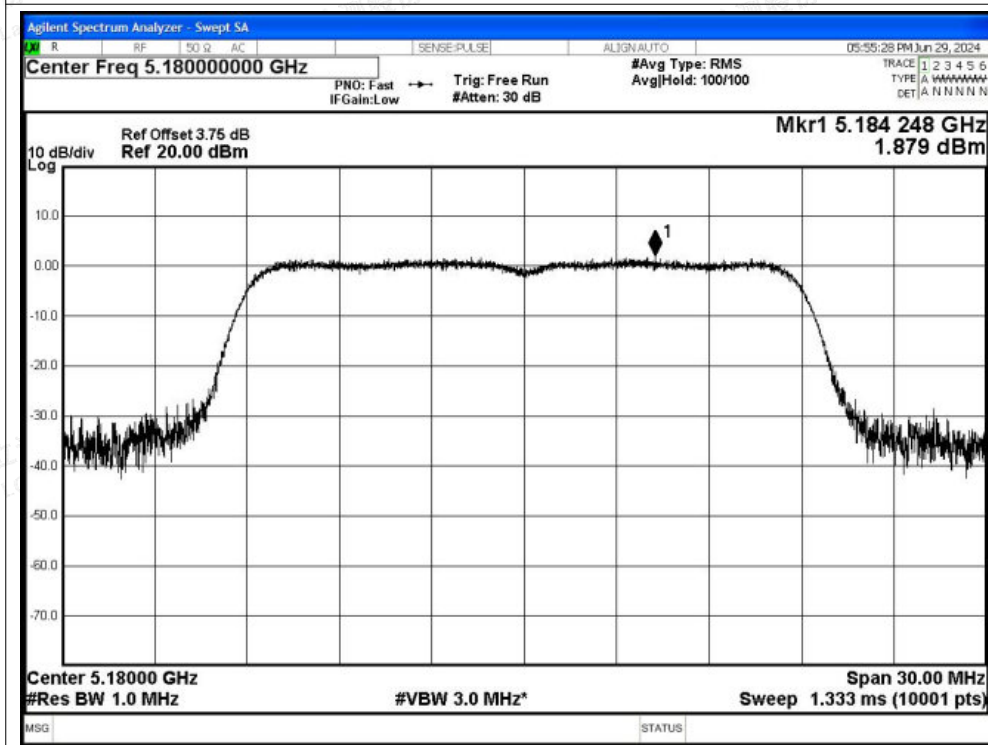




PSD NVNT ac40 5230MHz Ant1

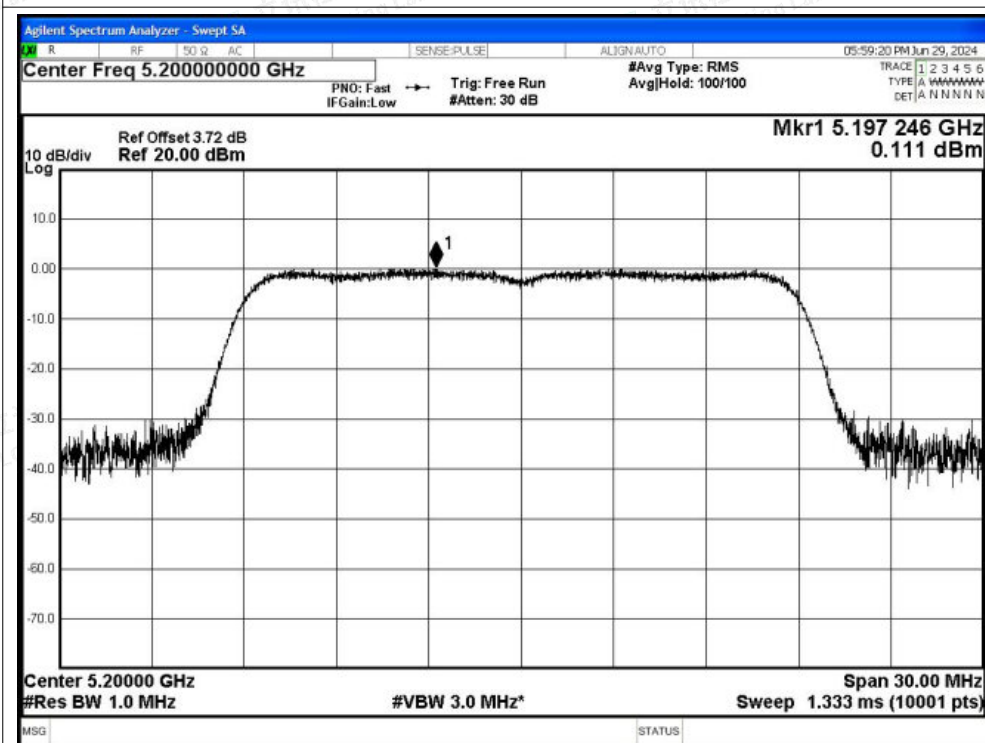


PSD NVNT ax20 5180MHz Ant1

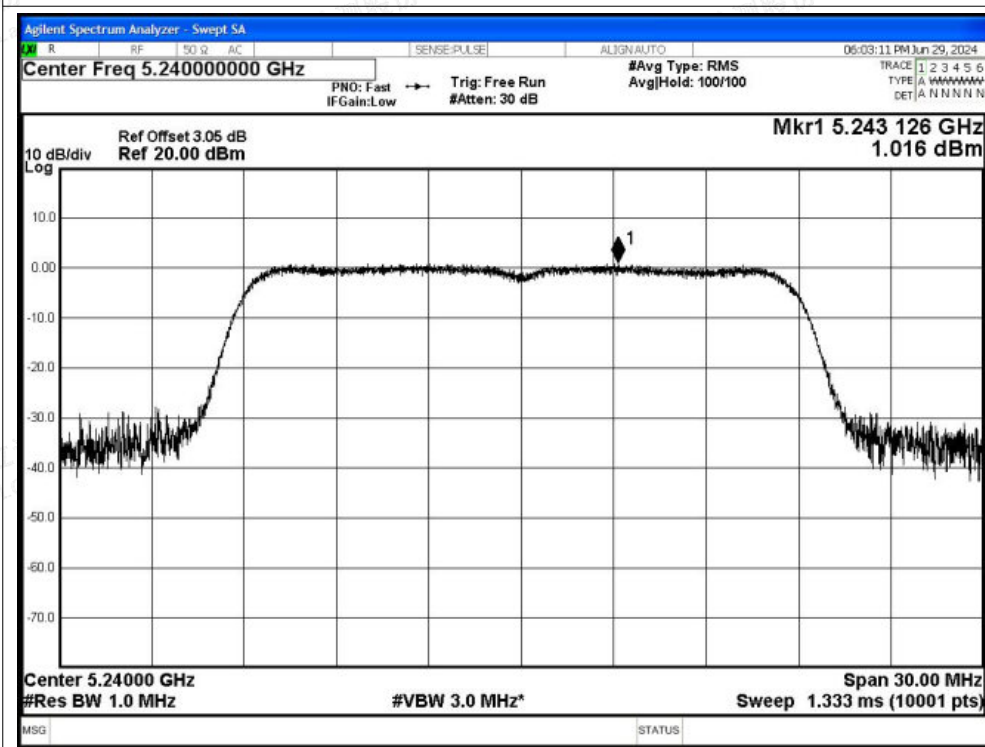




PSD NVNT ax20 5200MHz Ant1

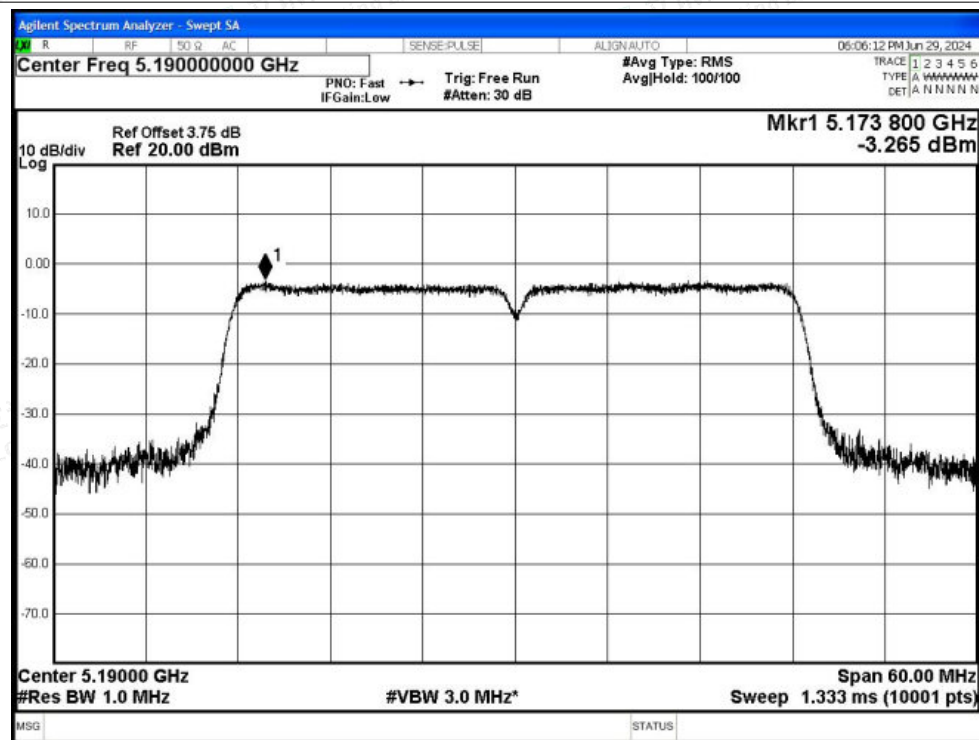


PSD NVNT ax20 5240MHz Ant1

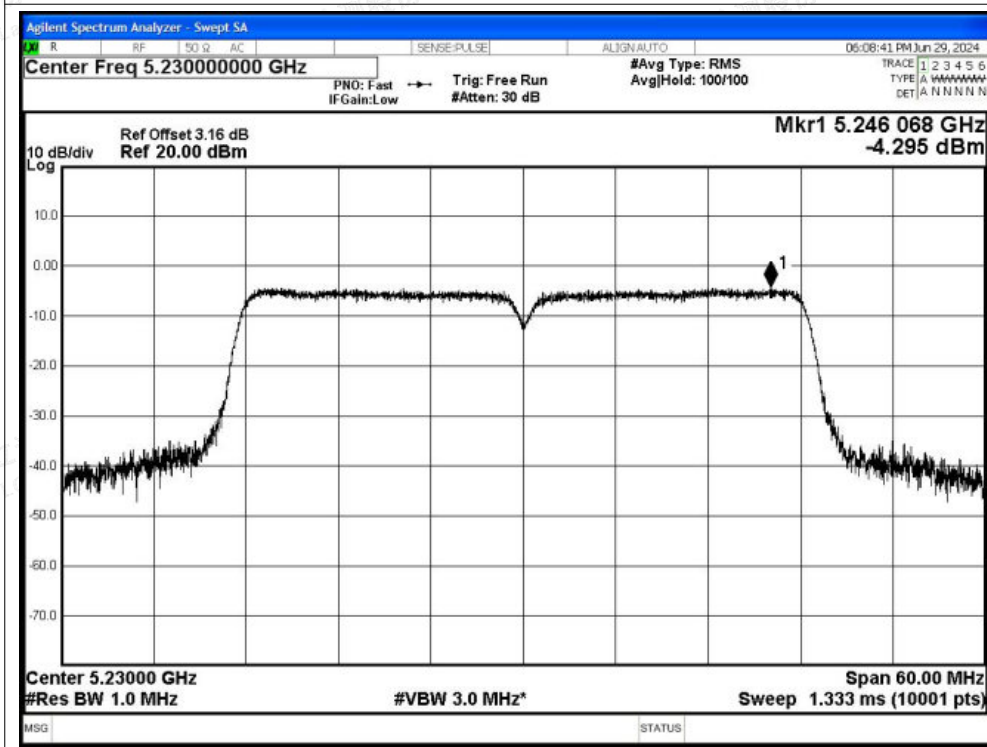




PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz 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	-50.1	2	-	47.13	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-58.28	2	0.24	39.19	Average	54	Pass
NVNT	a	5180	Ant1	5028.5	-45.74	2	-	51.49	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.2	-55.65	2	0.24	41.82	Average	54	Pass
NVNT	a	5180	Ant1	5150	-42.28	2	-	54.95	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-55.68	2	0.24	41.79	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.84	2	-	48.39	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.88	2	0.24	39.59	Average	54	Pass
NVNT	a	5240	Ant1	5381.28	-46.85	2	-	50.38	Peak	68.2	Pass
NVNT	a	5240	Ant1	5384.4	-57.21	2	0.24	40.26	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.38	2	-	46.85	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.38	2	0.24	39.09	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.85	2	-	47.38	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.79	2	0.28	39.72	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-39.87	2	-	57.36	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-55.52	2	0.28	41.99	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-45.28	2	-	51.95	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-56.01	2	0.28	41.5	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-50.47	2	-	46.76	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-58.53	2	0.28	38.98	Average	54	Pass
NVNT	n20	5240	Ant1	5362.32	-47	2	-	50.23	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.08	2	0.28	40.43	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.92	2	-	46.31	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-50.39	2	-	46.84	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-58.08	2	0.44	39.59	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-42.87	2	-	54.36	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-54.71	2	0.44	42.96	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-42.87	2	-	54.36	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.71	2	0.44	42.96	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-50.78	2	-	46.45	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-58.27	2	0.45	39.41	Average	54	Pass
NVNT	n40	5230	Ant1	5413.02	-47.03	2	-	50.2	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5376.03	-57.14	2	0.45	40.54	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.39	2	-	46.84	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58	2	0.45	39.68	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.72	2	-	48.51	Peak	68.2	Pass





NVNT	ac20	5180	Ant1	4500	-58.41	2	0.28	39.1	Average	54	Pass
NVNT	ac20	5180	Ant1	5145.4	-40.72	2	-	56.51	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-55.32	2	0.28	42.19	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-46.71	2	-	50.52	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-55.28	2	0.28	42.23	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.7	2	-	48.53	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.89	2	0.28	39.62	Average	54	Pass
NVNT	ac20	5240	Ant1	5431.2	-46.71	2	-	50.52	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5447.76	-57.16	2	0.28	40.35	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-47.46	2	-	49.77	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.57	2	0.28	38.94	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.51	2	-	46.72	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.06	2	0.44	39.61	Average	54	Pass
NVNT	ac40	5190	Ant1	5147.51	-41.43	2	-	55.8	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-54.47	2	0.44	43.2	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-44.94	2	-	52.29	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.47	2	0.44	43.2	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-50	2	-	47.23	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.93	2	0.44	39.74	Average	54	Pass
NVNT	ac40	5230	Ant1	5441.37	-45.8	2	-	51.43	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5398.71	-57.09	2	0.44	40.58	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.42	2	-	47.81	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.89	2	0.44	39.78	Average	54	Pass
NVNT	ax20	5180	Ant1	4500	-49.78	2	-	47.45	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	4500	-58.75	2	0.28	38.76	Average	54	Pass
NVNT	ax20	5180	Ant1	5149.6	-45.01	2	-	52.22	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5148.9	-55.29	2	0.28	42.22	Average	54	Pass
NVNT	ax20	5180	Ant1	5150	-44.77	2	-	52.46	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5150	-54.83	2	0.28	42.68	Average	54	Pass
NVNT	ax20	5240	Ant1	5350	-49.55	2	-	47.68	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5350	-57.98	2	0.28	39.53	Average	54	Pass
NVNT	ax20	5240	Ant1	5421.12	-46.61	2	-	50.62	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5375.52	-56.97	2	0.28	40.54	Average	54	Pass
NVNT	ax20	5240	Ant1	5460	-49.96	2	-	47.27	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5460	-58.38	2	0.28	39.13	Average	54	Pass
NVNT	ax40	5190	Ant1	4500	-49.7	2	-	47.53	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	4500	-58.06	2	0.45	39.62	Average	54	Pass
NVNT	ax40	5190	Ant1	5149.7	-43.84	2	-	53.39	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5148.97	-54.69	2	0.45	42.99	Average	54	Pass
NVNT	ax40	5190	Ant1	5150	-43.84	2	-	53.39	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5150	-55.02	2	0.45	42.66	Average	54	Pass





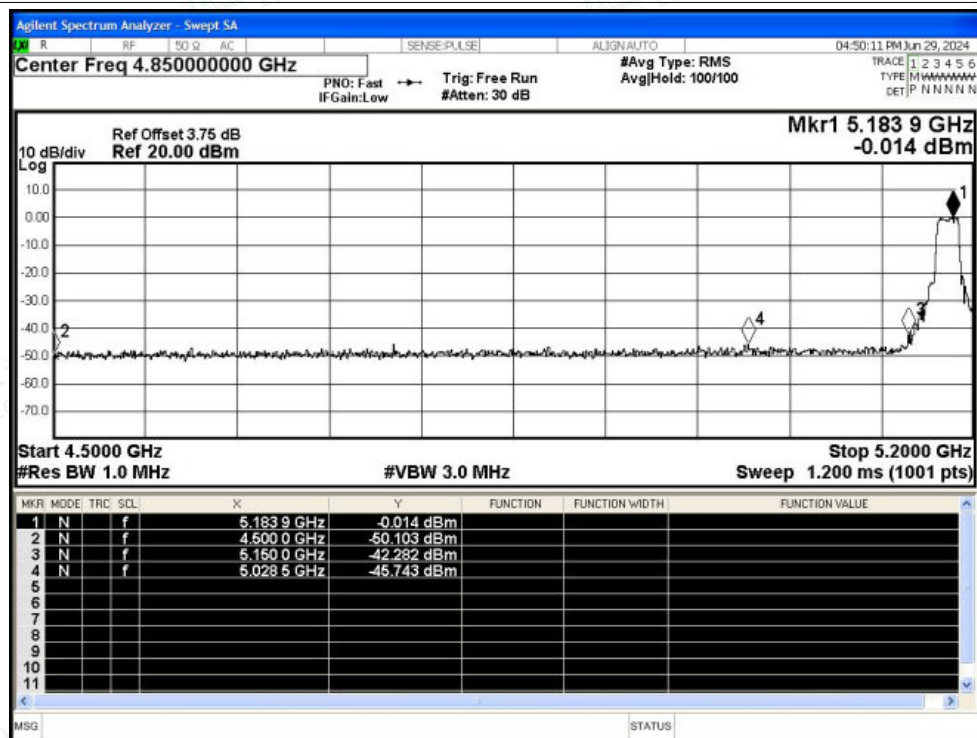
NVNT	ax40	5230	Ant1	5350	-50.5	2	-	46.73	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5350	-58.07	2	0.45	39.61	Average	54	Pass
NVNT	ax40	5230	Ant1	5412.75	-47.04	2	-	50.19	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5367.66	-56.79	2	0.45	40.89	Average	54	Pass
NVNT	ax40	5230	Ant1	5460	-50.52	2	-	46.71	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5460	-57.29	2	0.45	40.39	Average	54	Pass



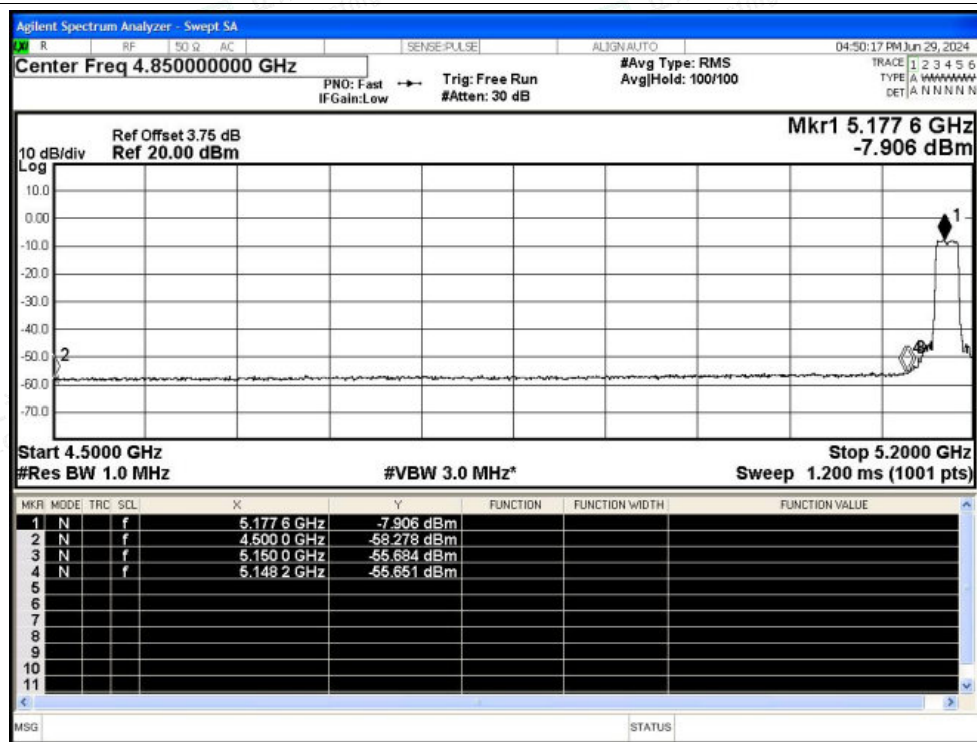


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

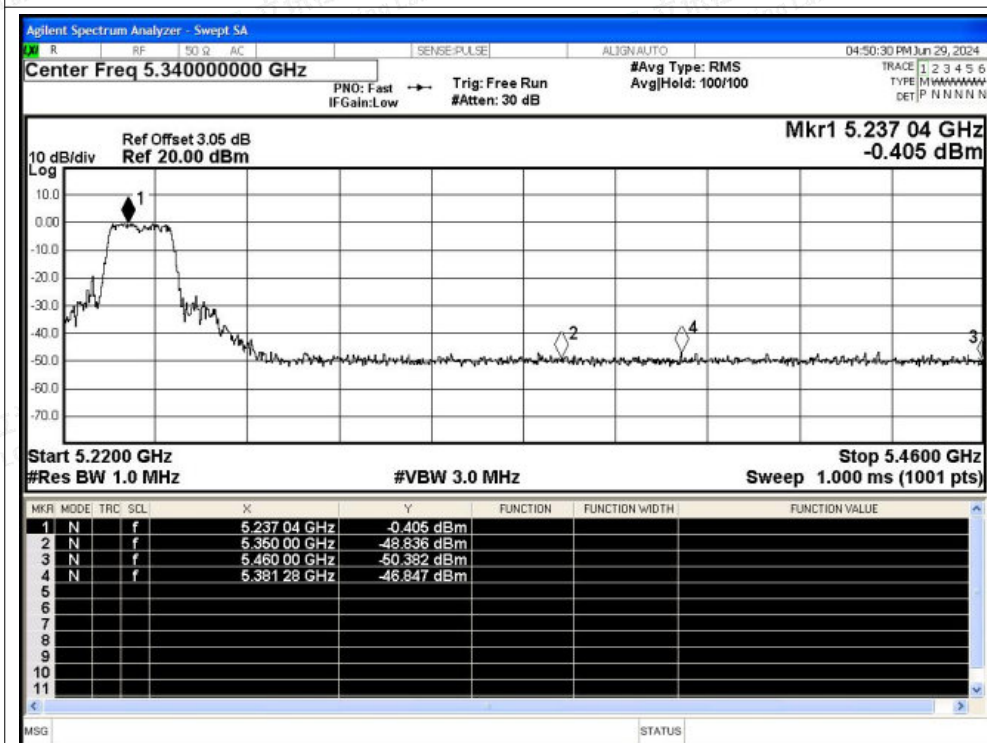


Restrict Band NVNT a 5180MHz Ant1 Average

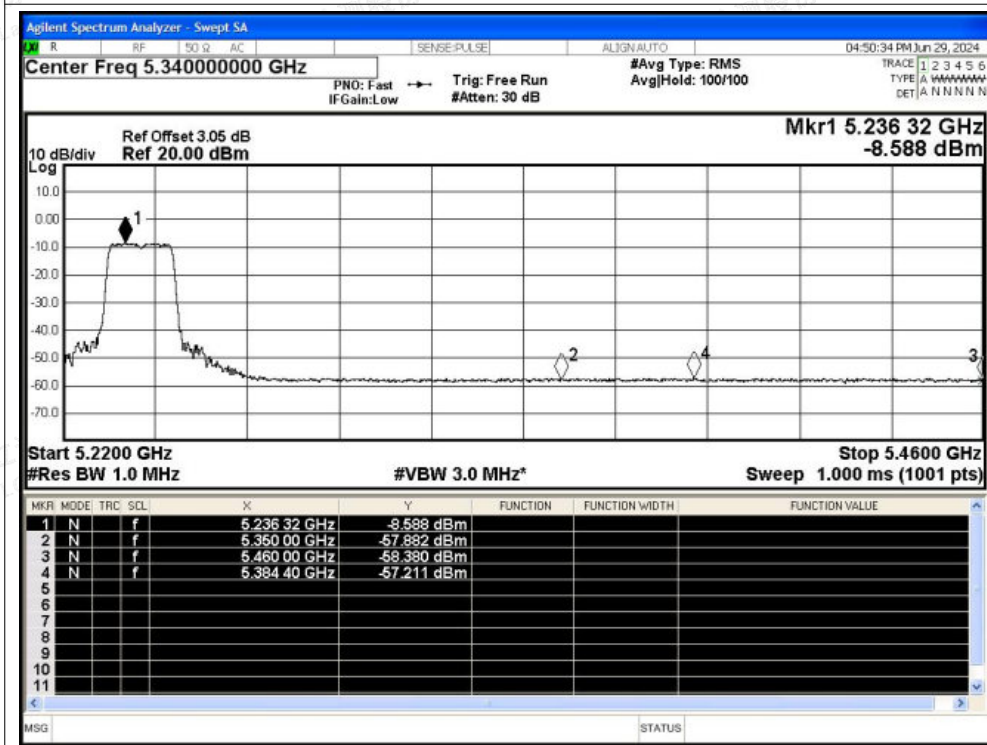




Restrict Band NVNT a 5240MHz Ant1 Peak

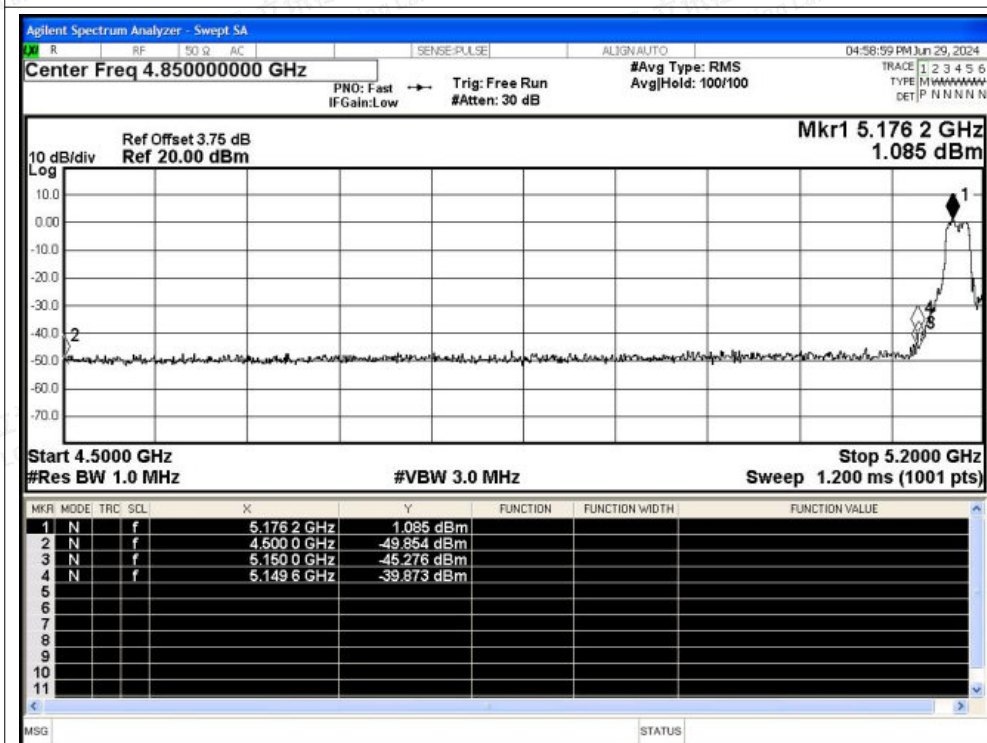


Restrict Band NVNT a 5240MHz Ant1 Average

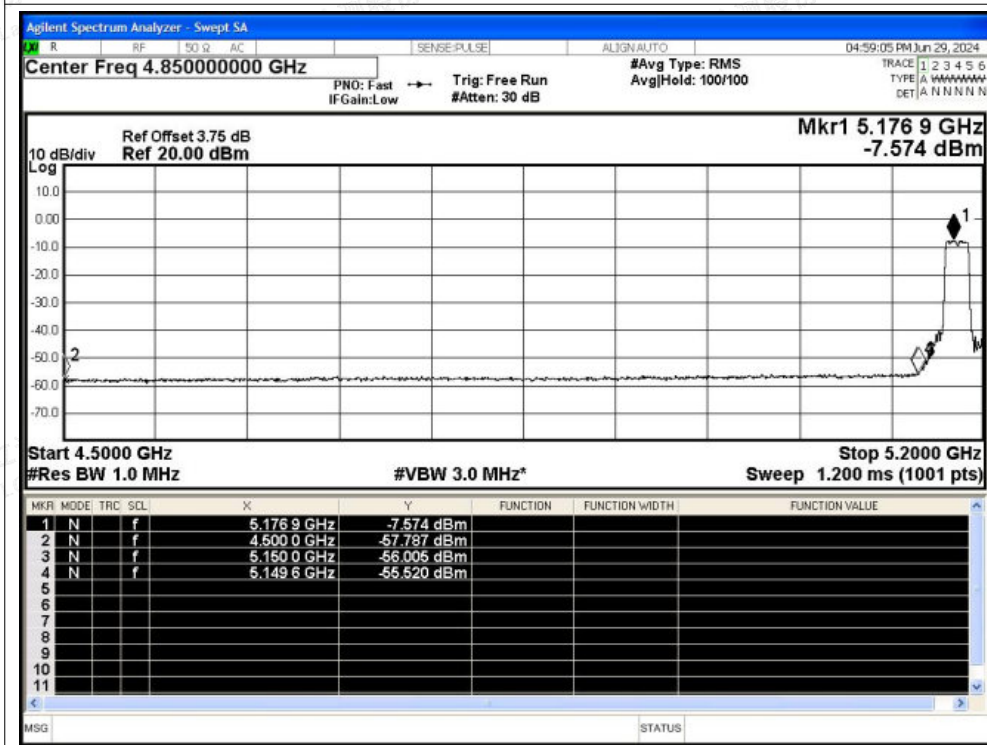




Restrict Band NVNT n20 5180MHz Ant1 Peak

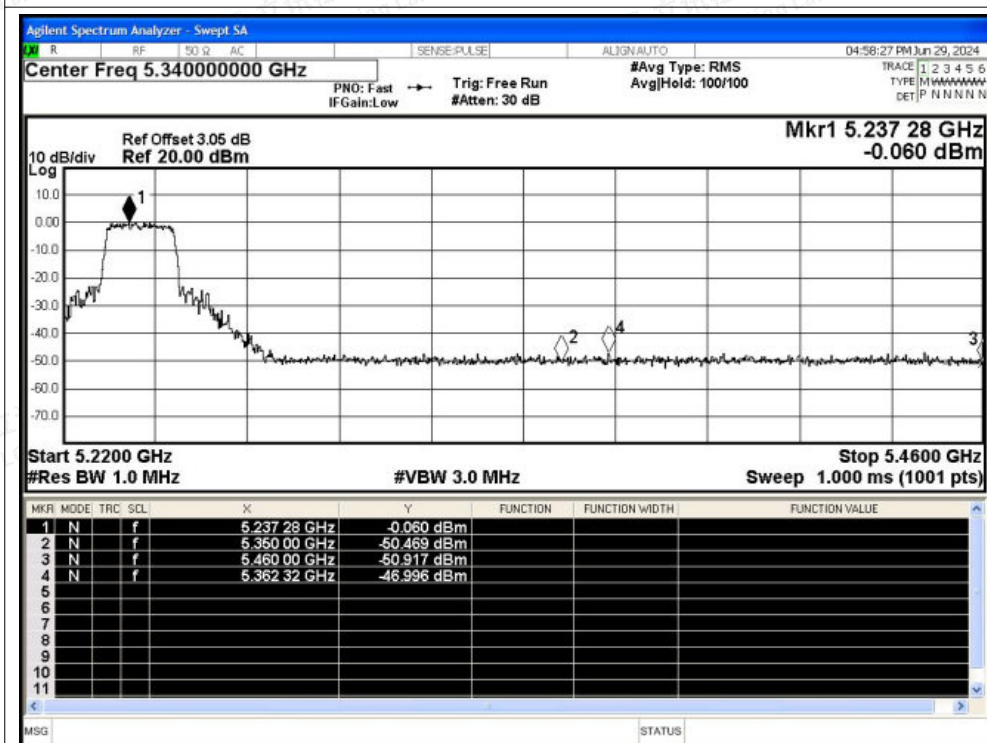


Restrict Band NVNT n20 5180MHz Ant1 Average

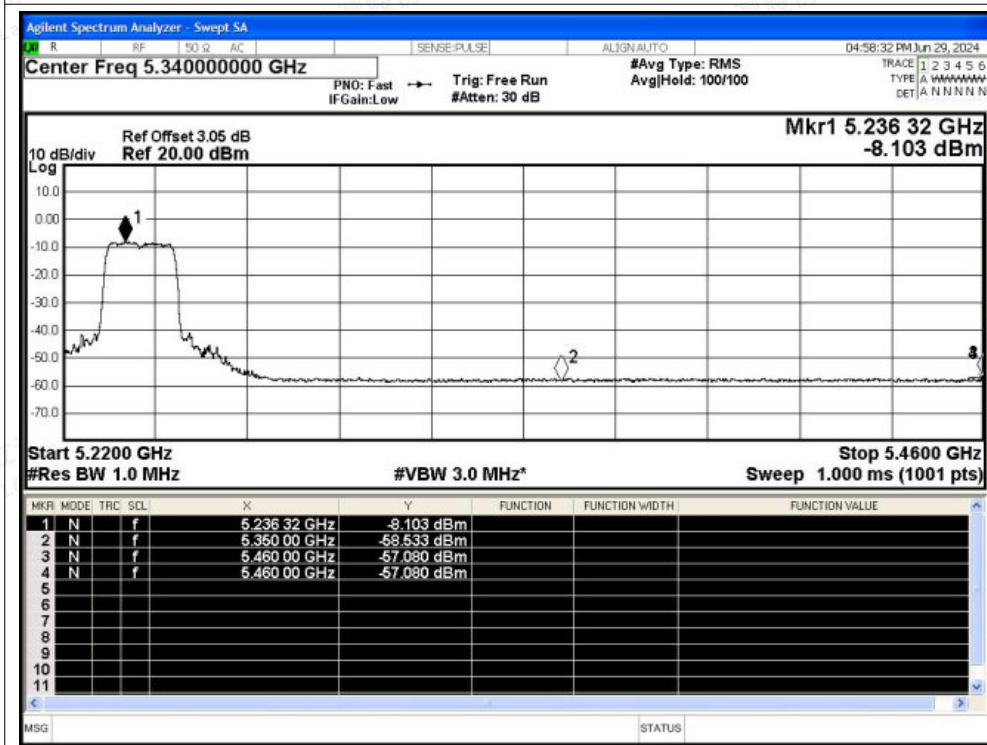




Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

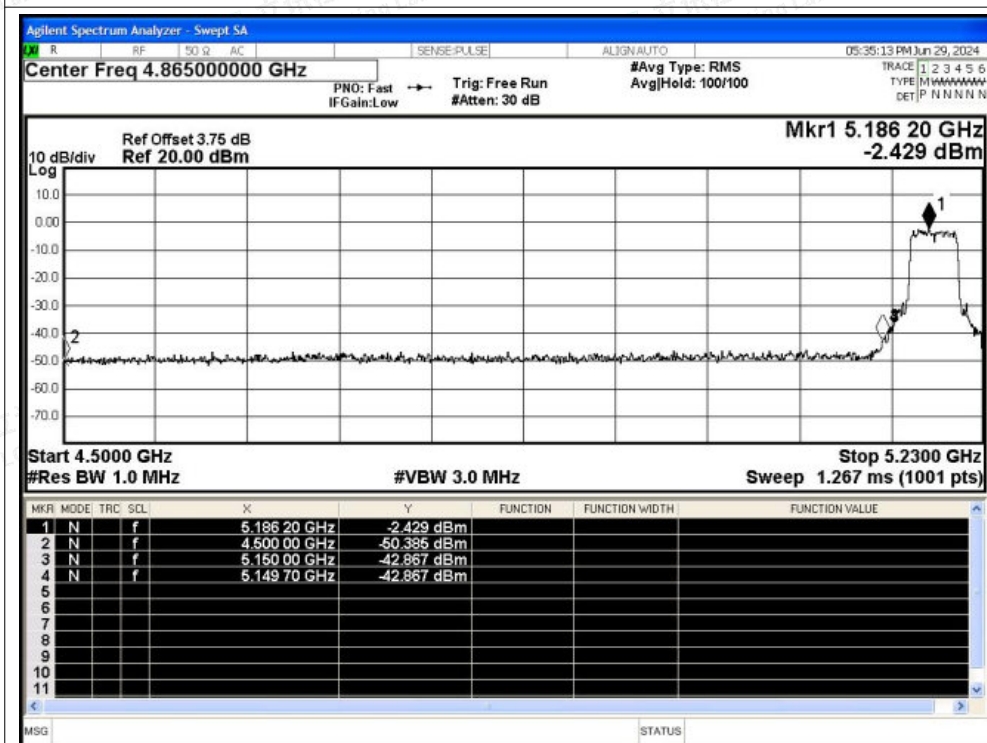
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

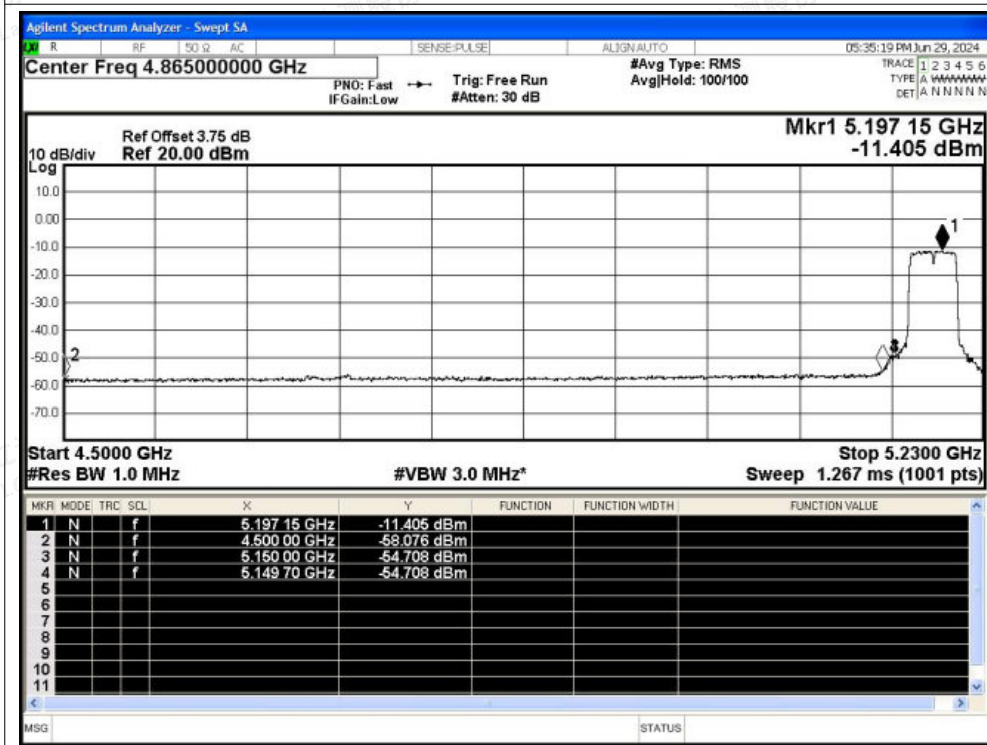
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

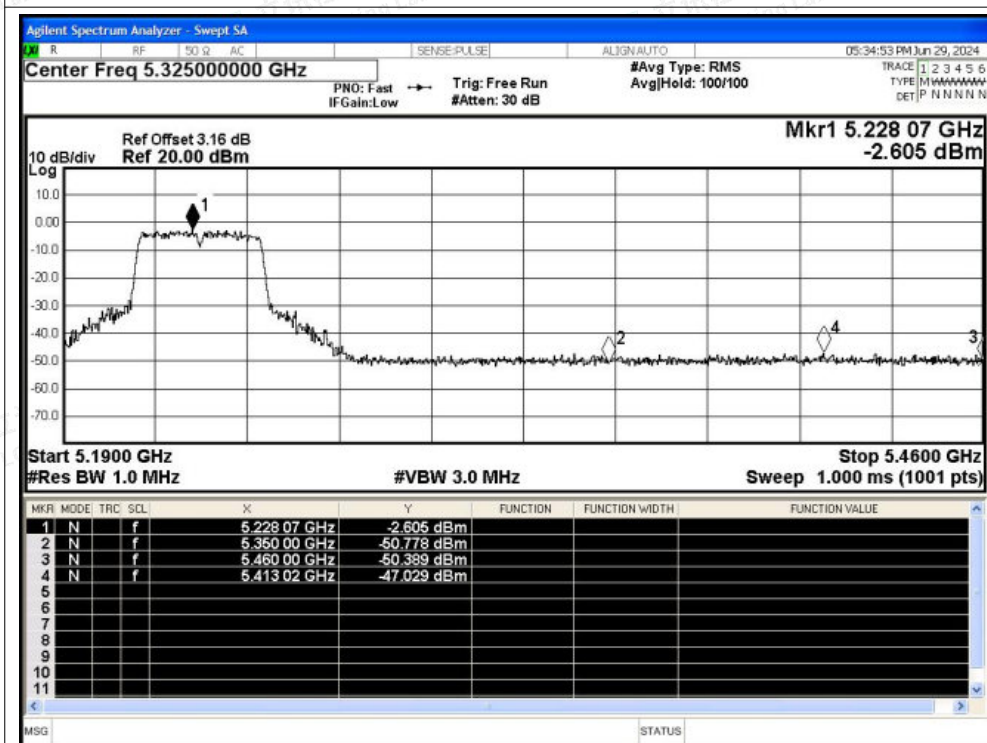
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

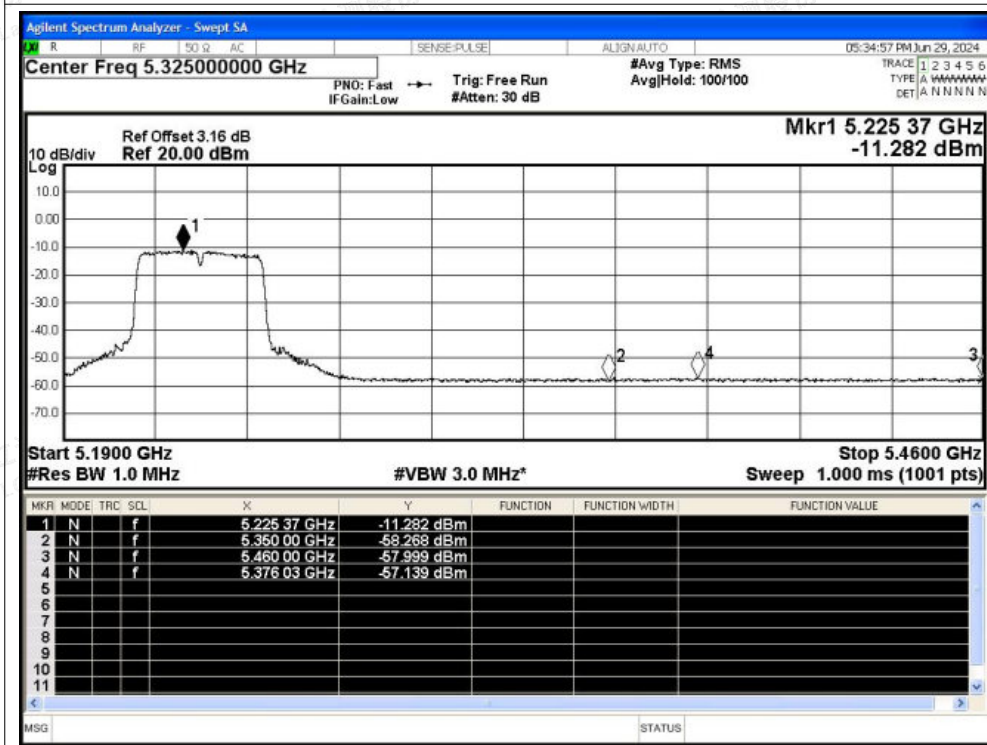
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

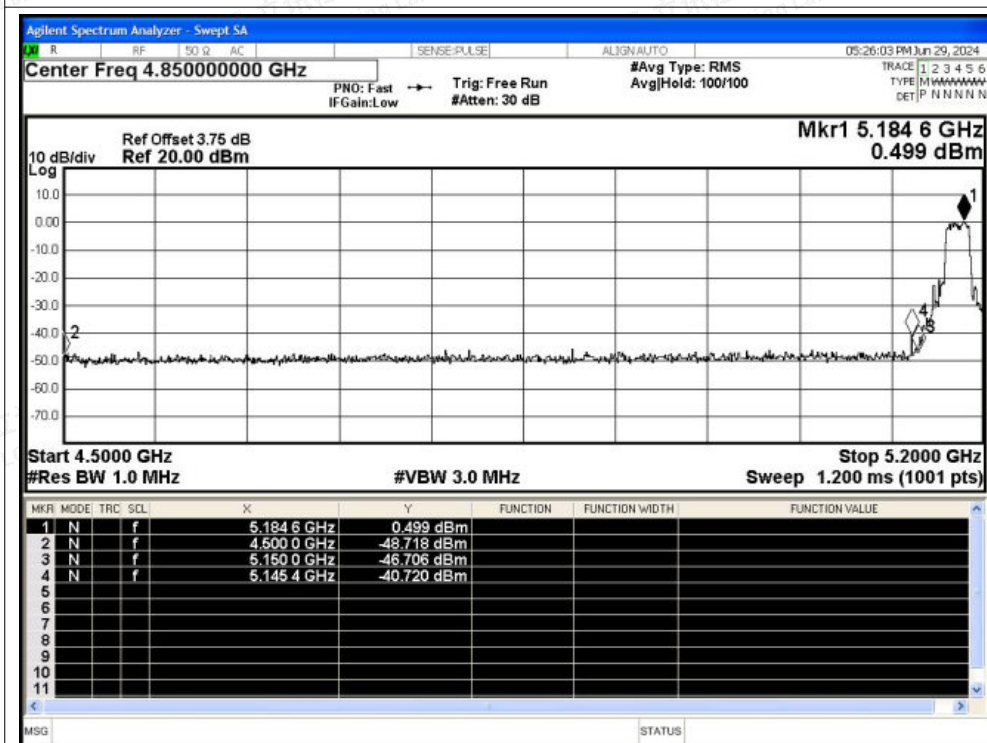
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

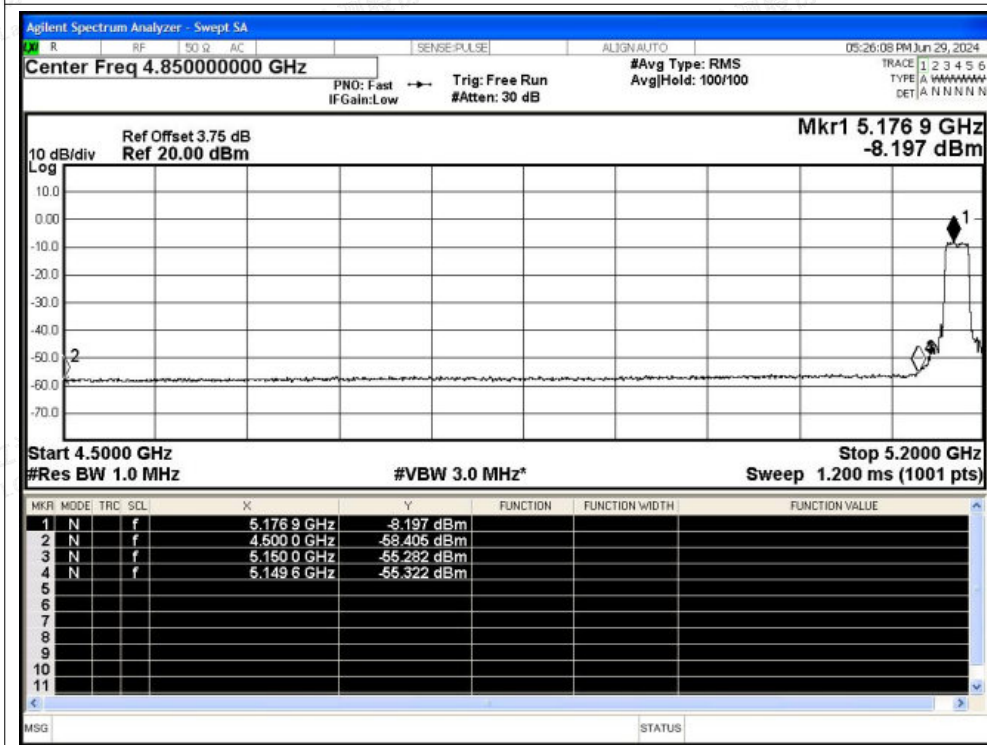
Scan code to check authenticity



Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

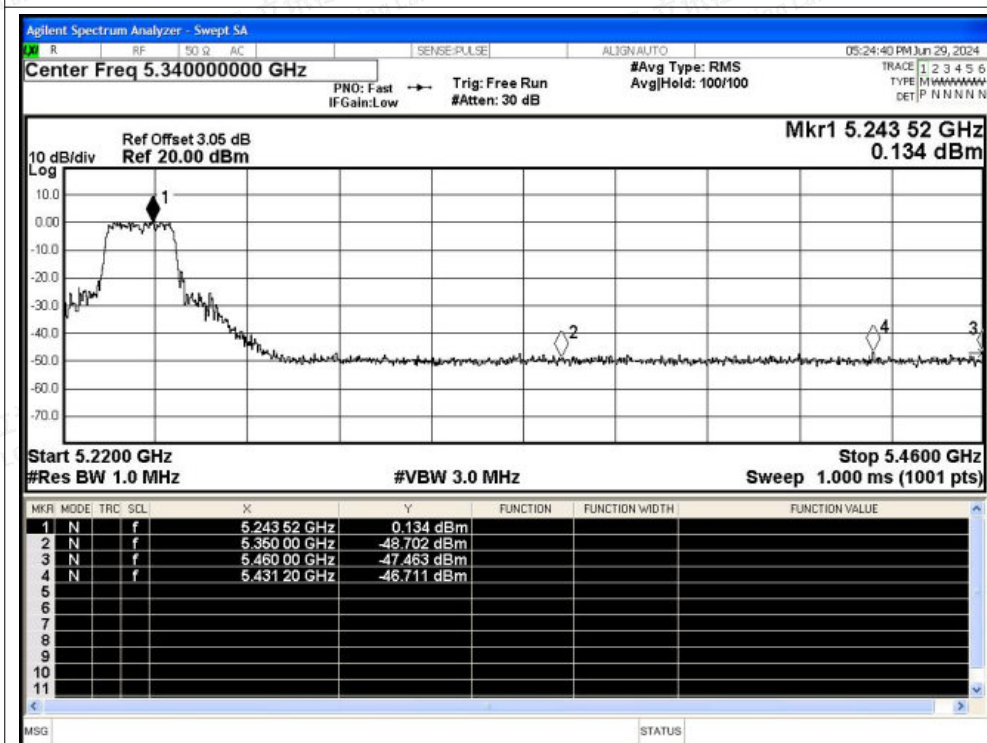
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

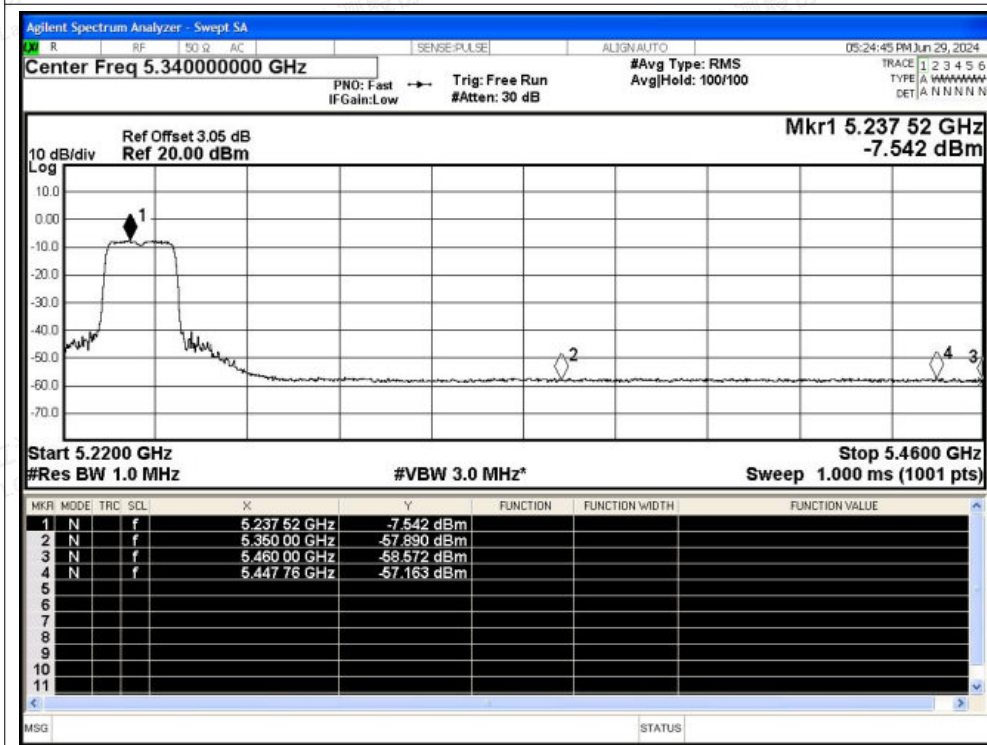
Scan code to check authenticity



Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

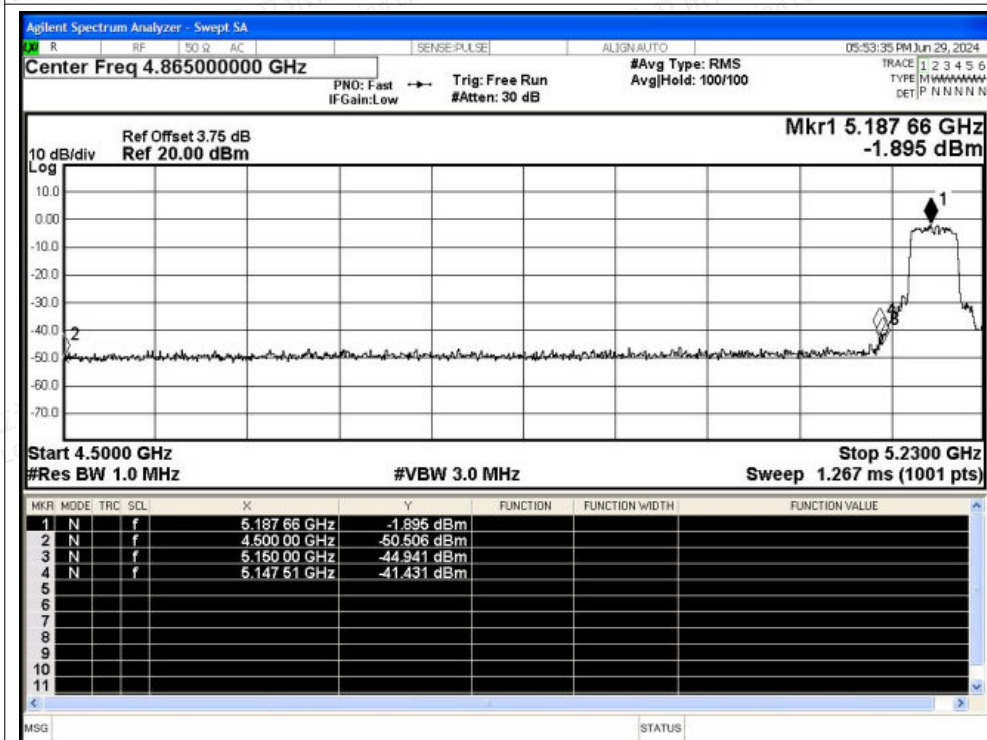
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

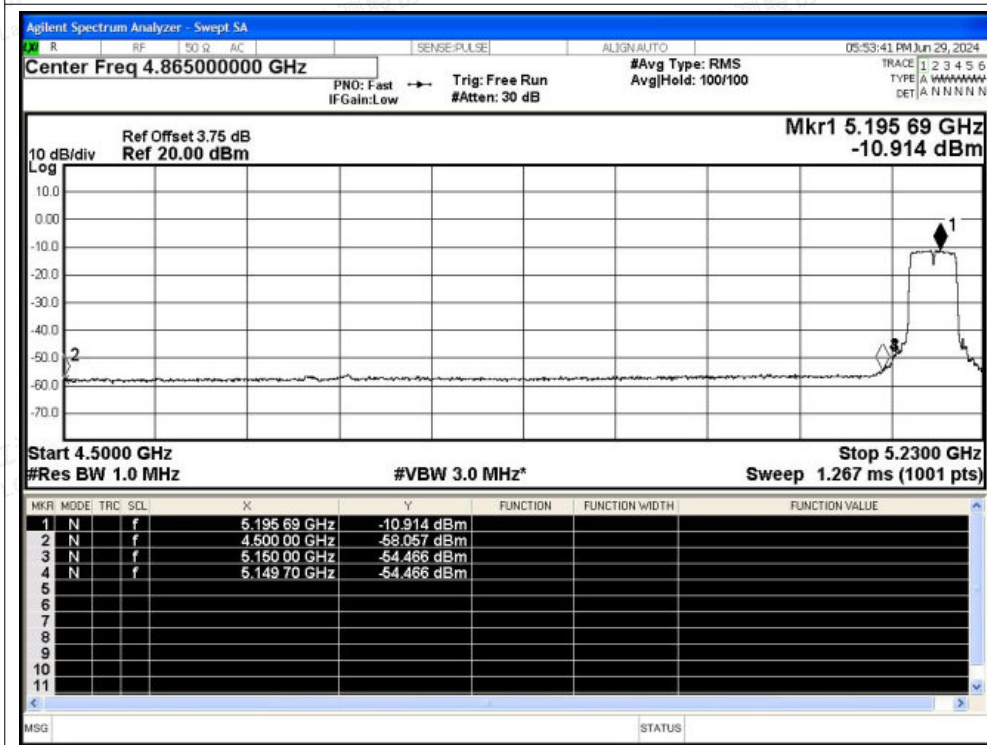
Scan code to check authenticity



Restrict Band NVNT ac40 5190MHz Ant1 Peak

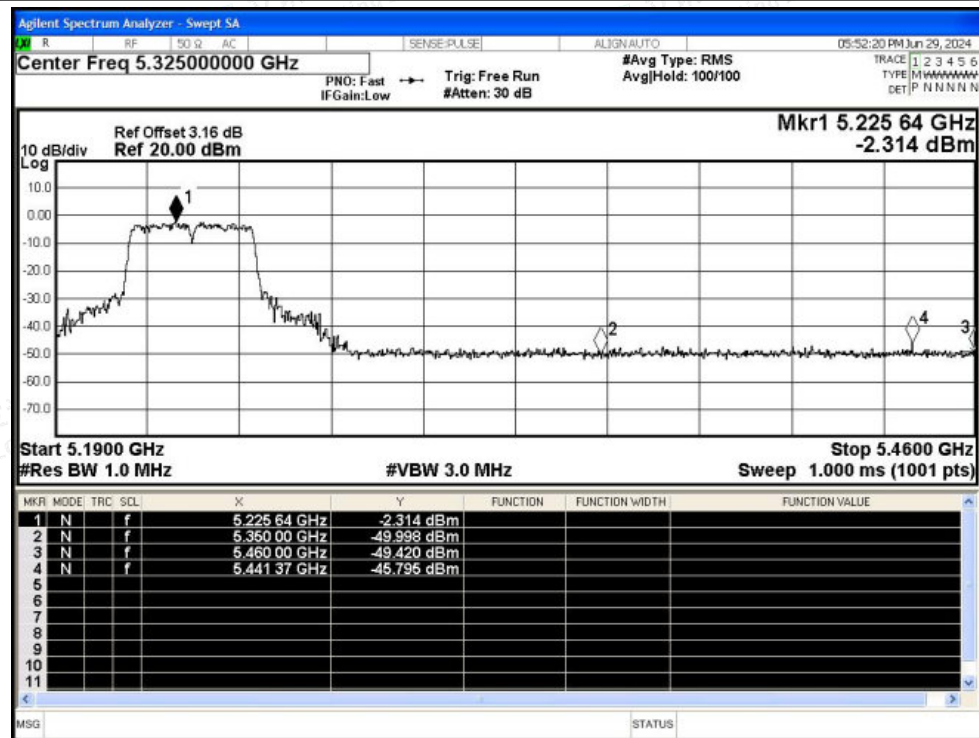


Restrict Band NVNT ac40 5190MHz Ant1 Average





Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average

