



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: projector

Test Model: L12

Environmental Conditions

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



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D.1 -26dB Bandwidth

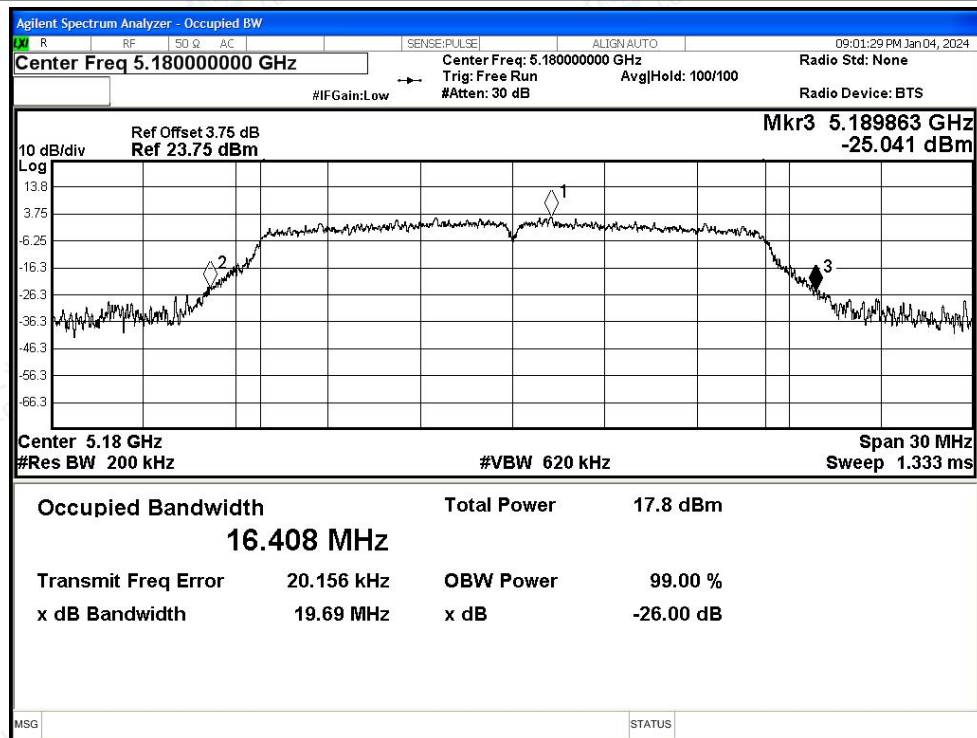
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.686	≥ 0.5	Pass
NVNT	a	5200	Ant1	19.852	≥ 0.5	Pass
NVNT	a	5240	Ant1	19.816	≥ 0.5	Pass
NVNT	n20	5180	Ant1	19.982	≥ 0.5	Pass
NVNT	n20	5200	Ant1	20.638	≥ 0.5	Pass
NVNT	n20	5240	Ant1	20.484	≥ 0.5	Pass
NVNT	n40	5190	Ant1	42.15	≥ 0.5	Pass
NVNT	n40	5230	Ant1	43.875	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	20.308	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	19.976	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	20.07	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	41.592	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	40.199	≥ 0.5	Pass



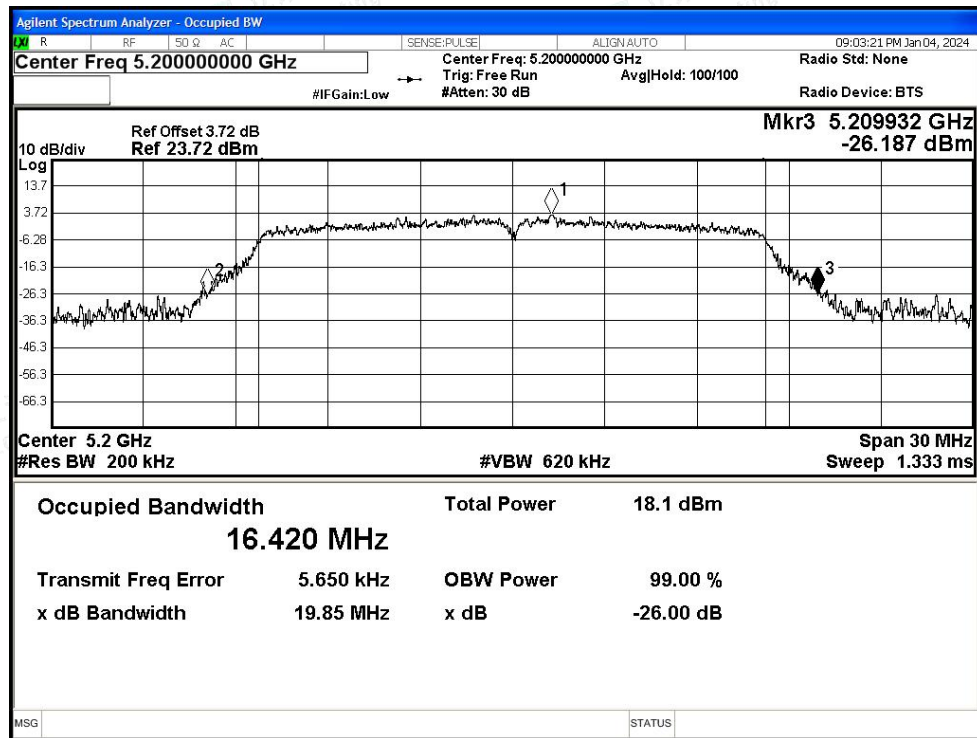


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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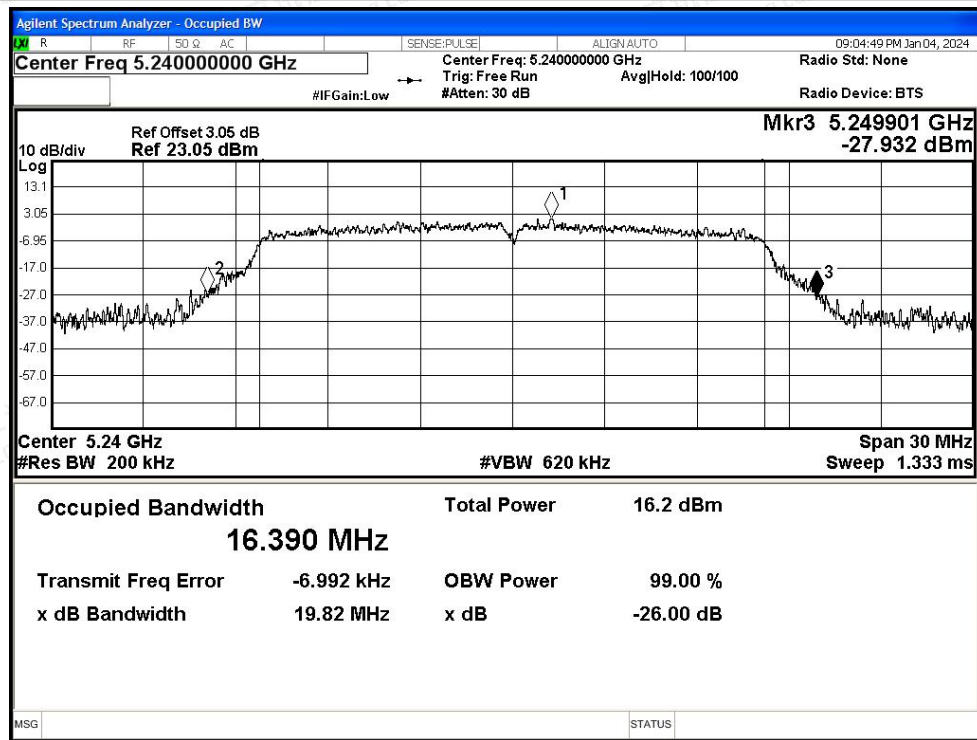
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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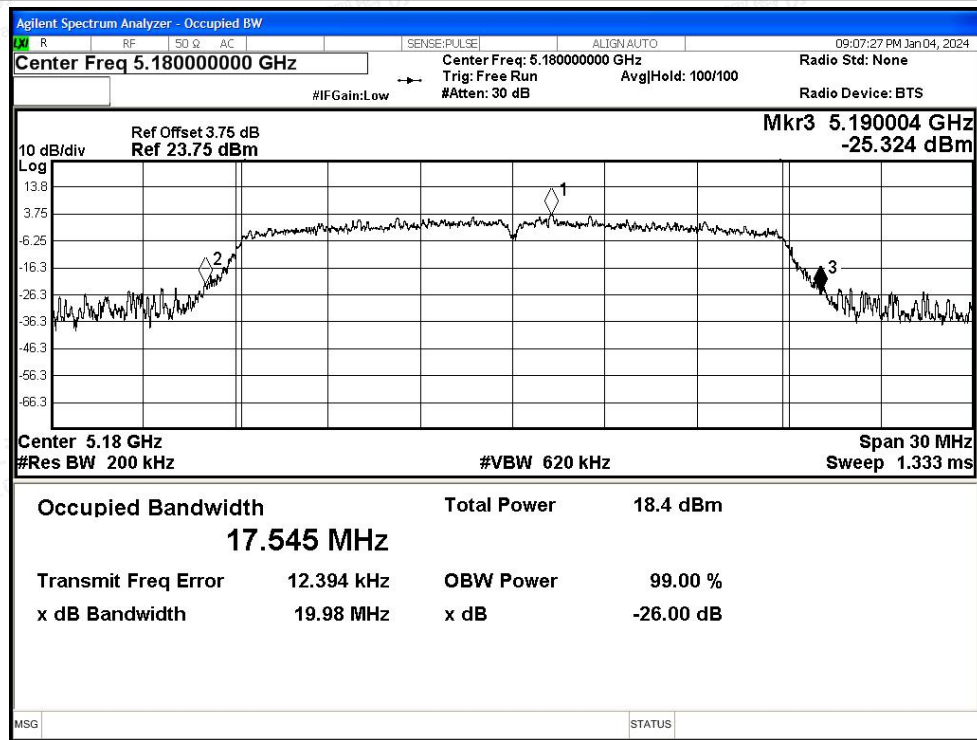
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1

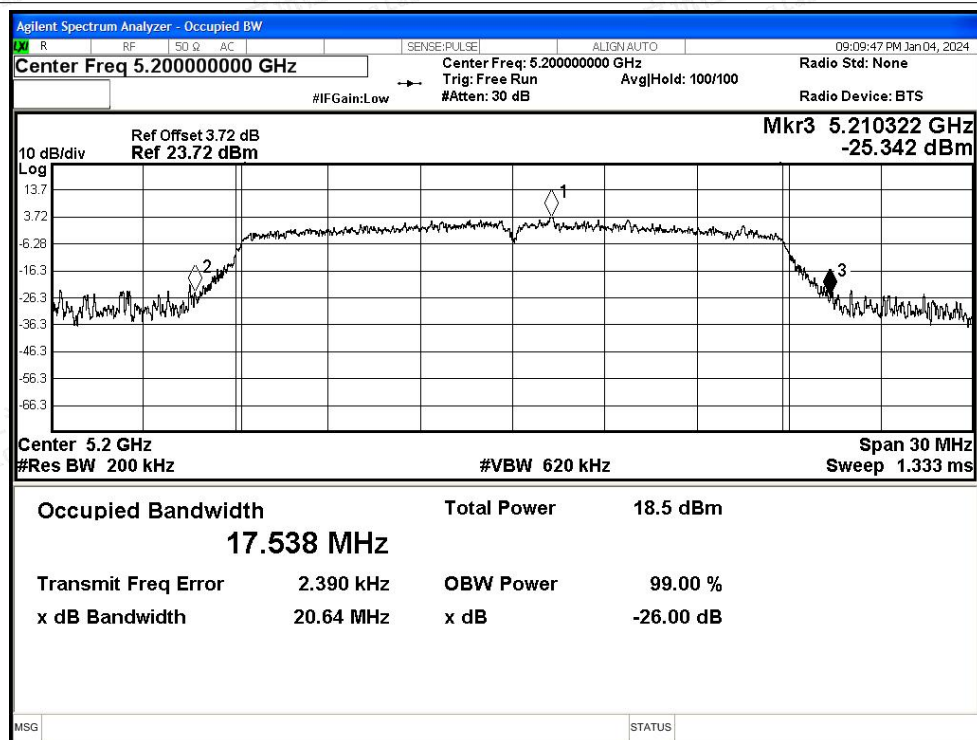


-26dB Bandwidth NVNT n20 5180MHz Ant1





-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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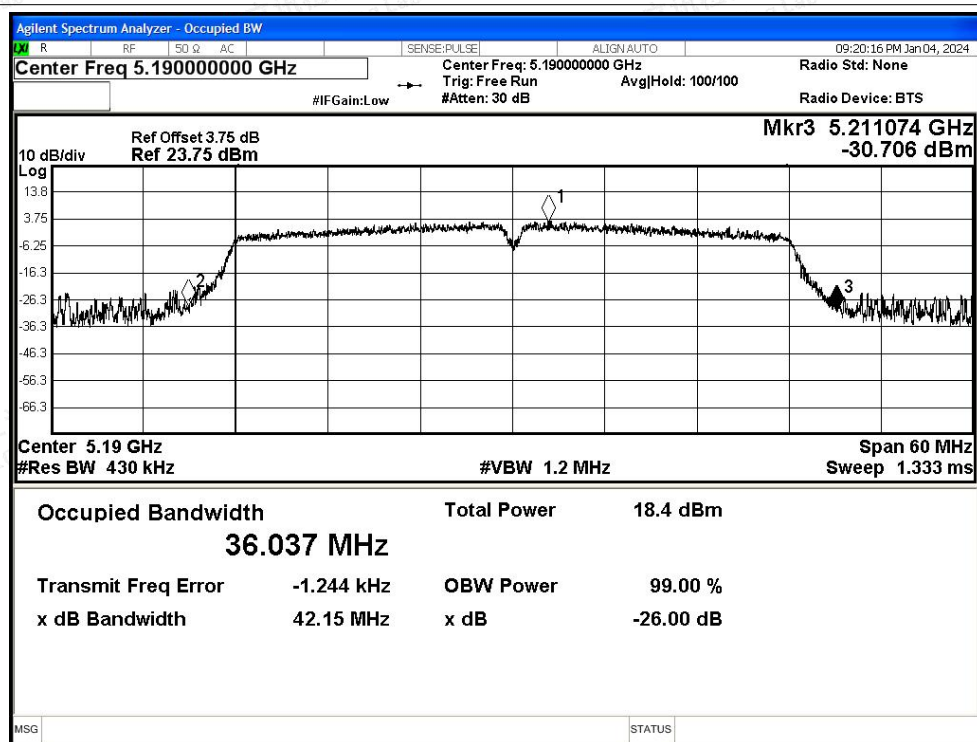
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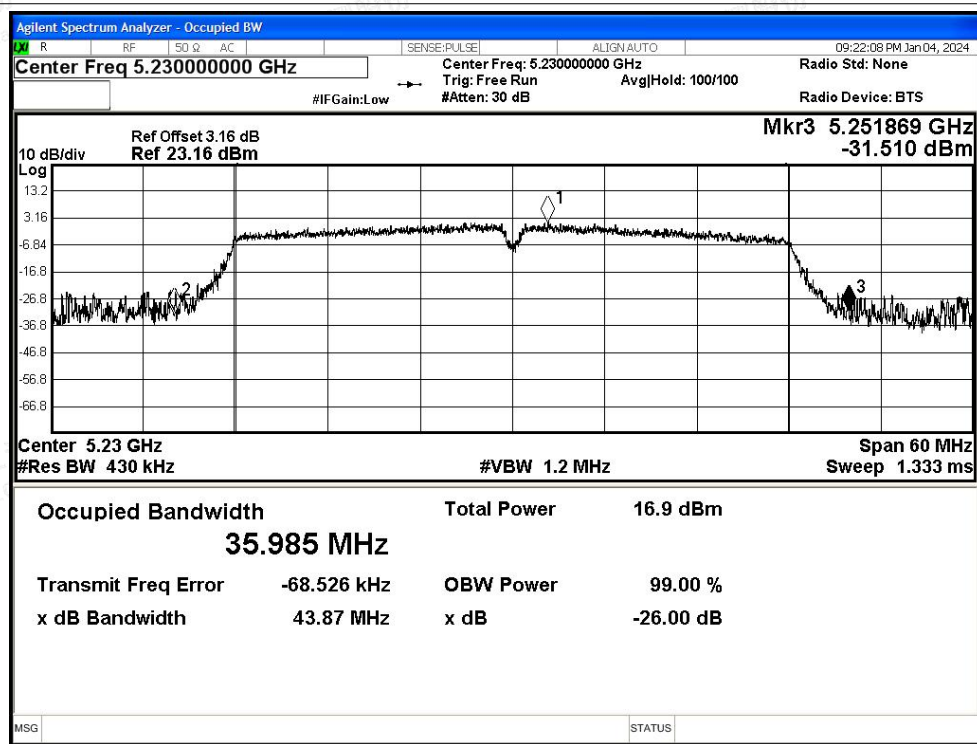
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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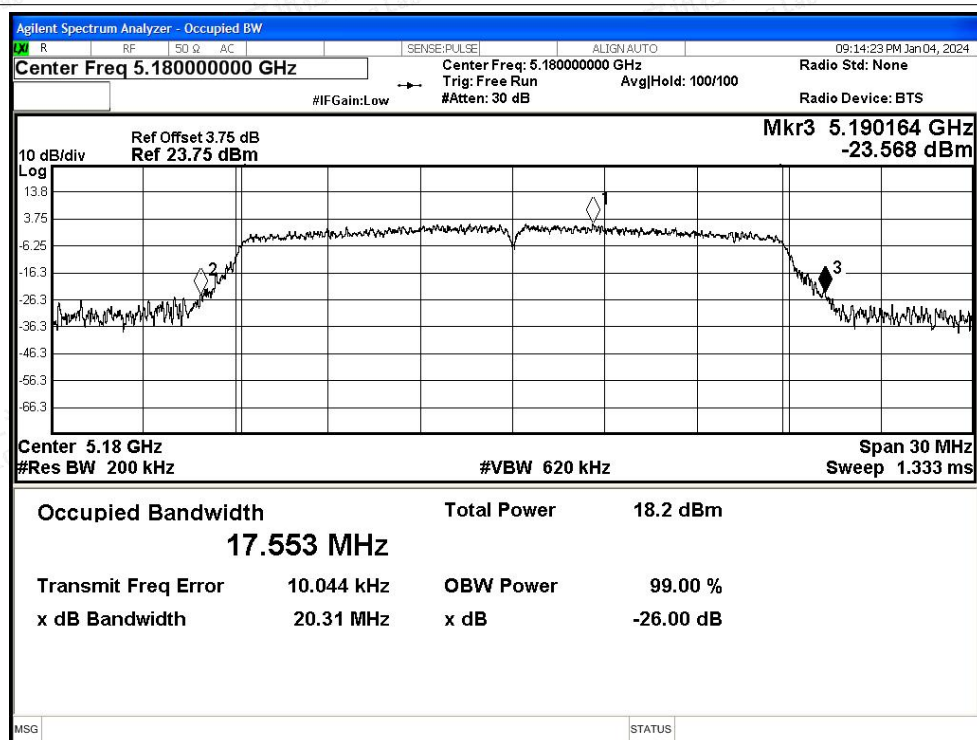
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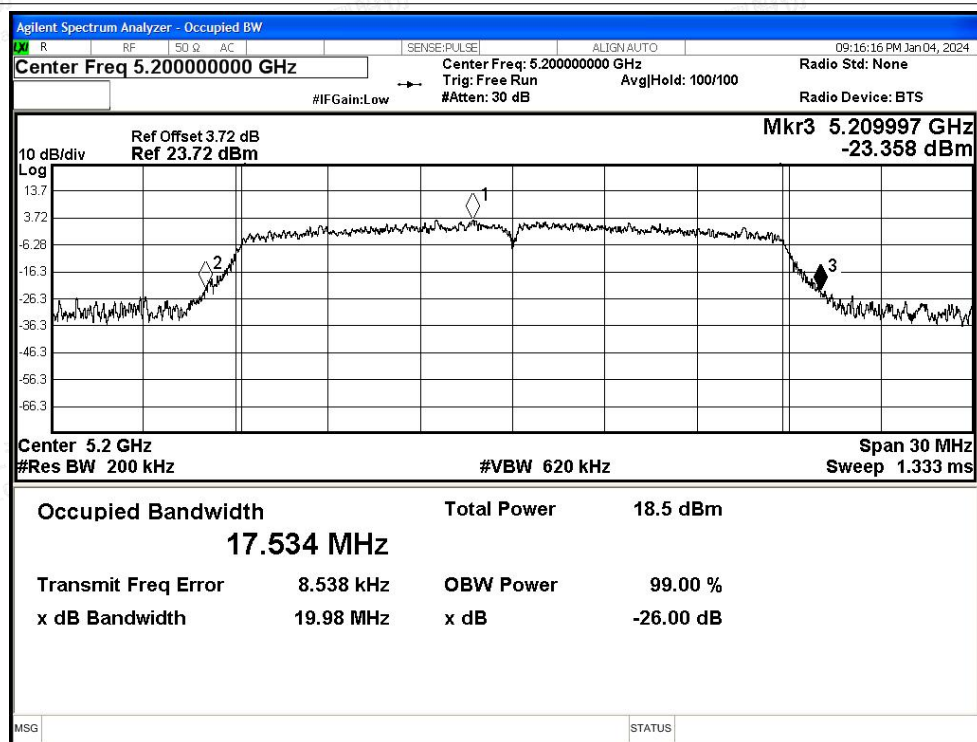
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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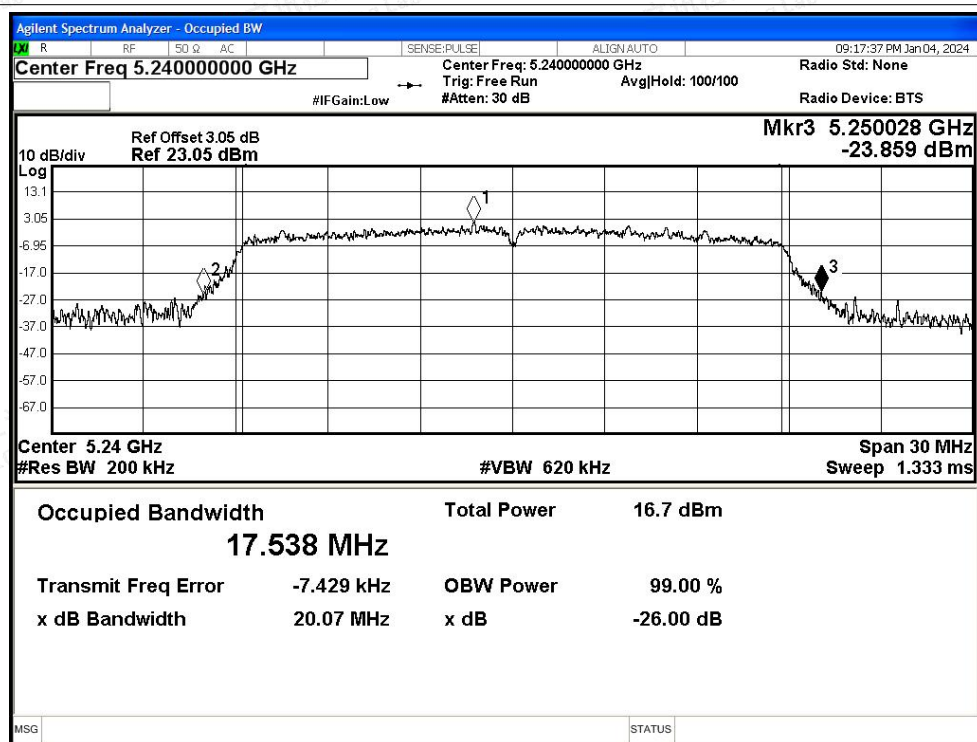
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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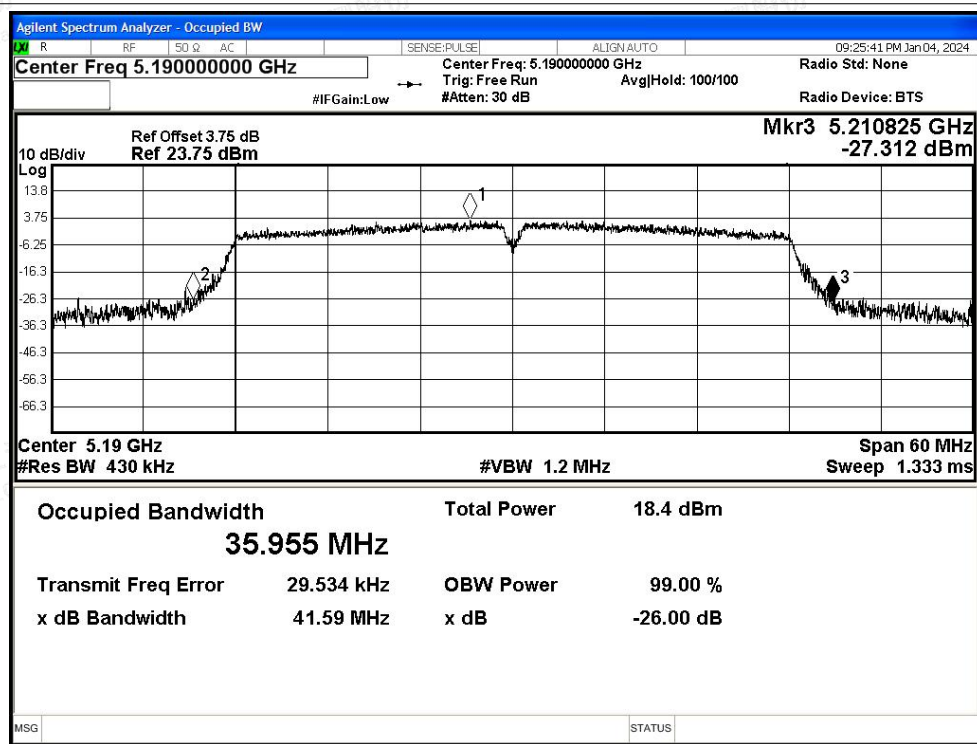
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

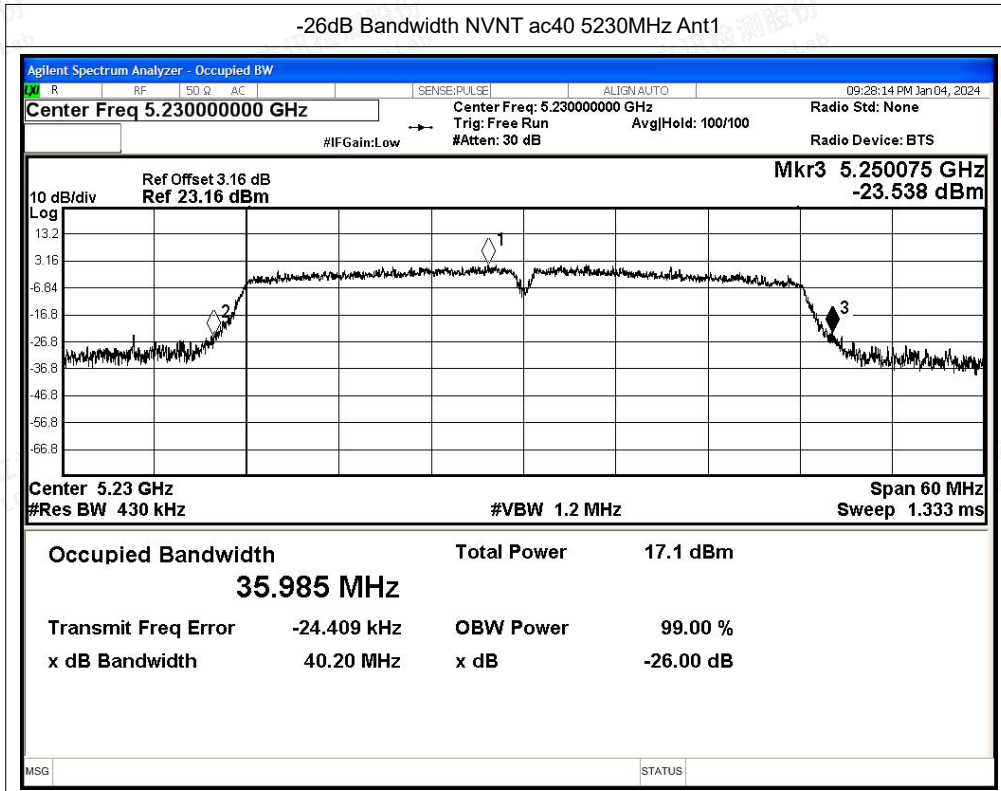


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.26	0.13	12.39	24	Pass
NVNT	a	5200	Ant1	12.46	0.13	12.59	24	Pass
NVNT	a	5240	Ant1	10.56	0.14	10.7	24	Pass
NVNT	n20	5180	Ant1	12.63	0.14	12.77	24	Pass
NVNT	n20	5200	Ant1	12.64	0.14	12.78	24	Pass
NVNT	n20	5240	Ant1	11.12	0.15	11.27	24	Pass
NVNT	n40	5190	Ant1	12.51	0.29	12.8	24	Pass
NVNT	n40	5230	Ant1	10.94	0.29	11.23	24	Pass
NVNT	ac20	5180	Ant1	12.56	0.14	12.7	24	Pass
NVNT	ac20	5200	Ant1	12.89	0.15	13.04	24	Pass
NVNT	ac20	5240	Ant1	11.06	0.15	11.21	24	Pass
NVNT	ac40	5190	Ant1	12.61	0.28	12.89	24	Pass
NVNT	ac40	5230	Ant1	11.23	0.28	11.51	24	Pass





D.3 Maximum Power Spectral Density Level

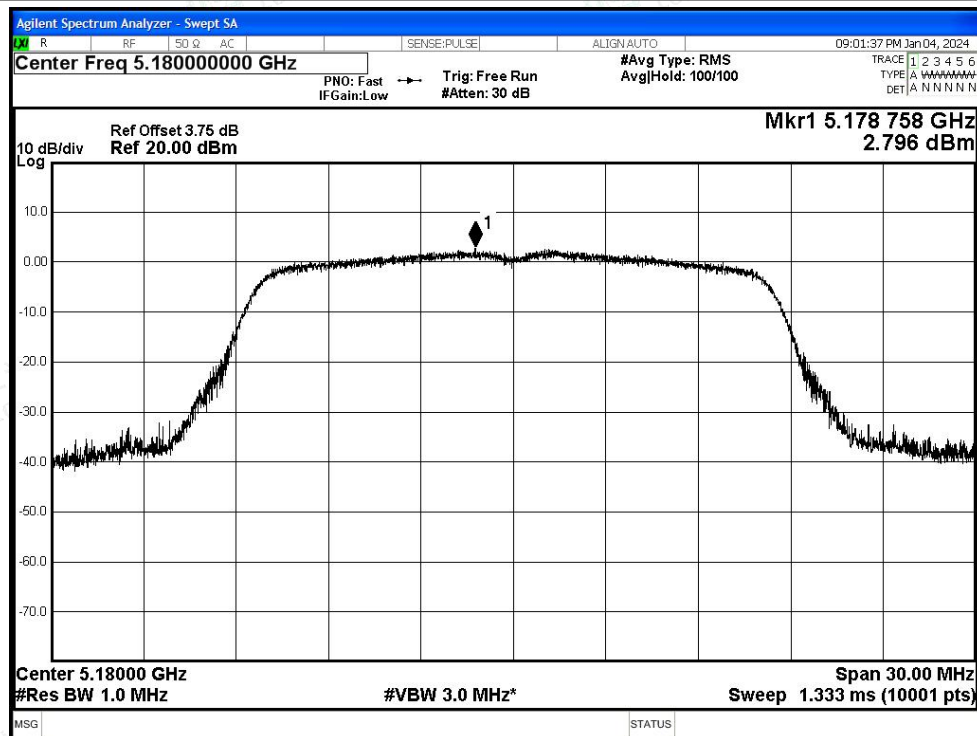
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.8	0.13	2.93	11	Pass
NVNT	a	5200	Ant1	2.95	0.13	3.08	11	Pass
NVNT	a	5240	Ant1	0.87	0.14	1.01	11	Pass
NVNT	n20	5180	Ant1	2.62	0.14	2.76	11	Pass
NVNT	n20	5200	Ant1	3.04	0.14	3.18	11	Pass
NVNT	n20	5240	Ant1	1.17	0.15	1.32	11	Pass
NVNT	n40	5190	Ant1	-0.12	0.29	0.17	11	Pass
NVNT	n40	5230	Ant1	-1.73	0.29	-1.44	11	Pass
NVNT	ac20	5180	Ant1	2.71	0.14	2.85	11	Pass
NVNT	ac20	5200	Ant1	3.08	0.15	3.23	11	Pass
NVNT	ac20	5240	Ant1	1.18	0.15	1.33	11	Pass
NVNT	ac40	5190	Ant1	-0.38	0.28	-0.1	11	Pass
NVNT	ac40	5230	Ant1	-1.4	0.28	-1.12	11	Pass



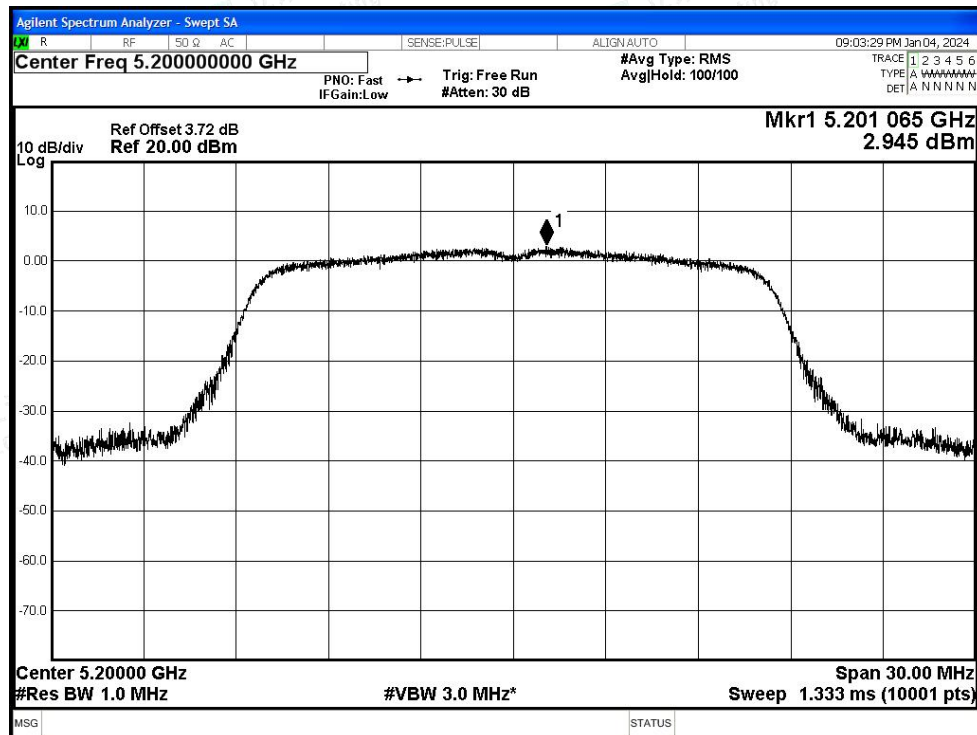


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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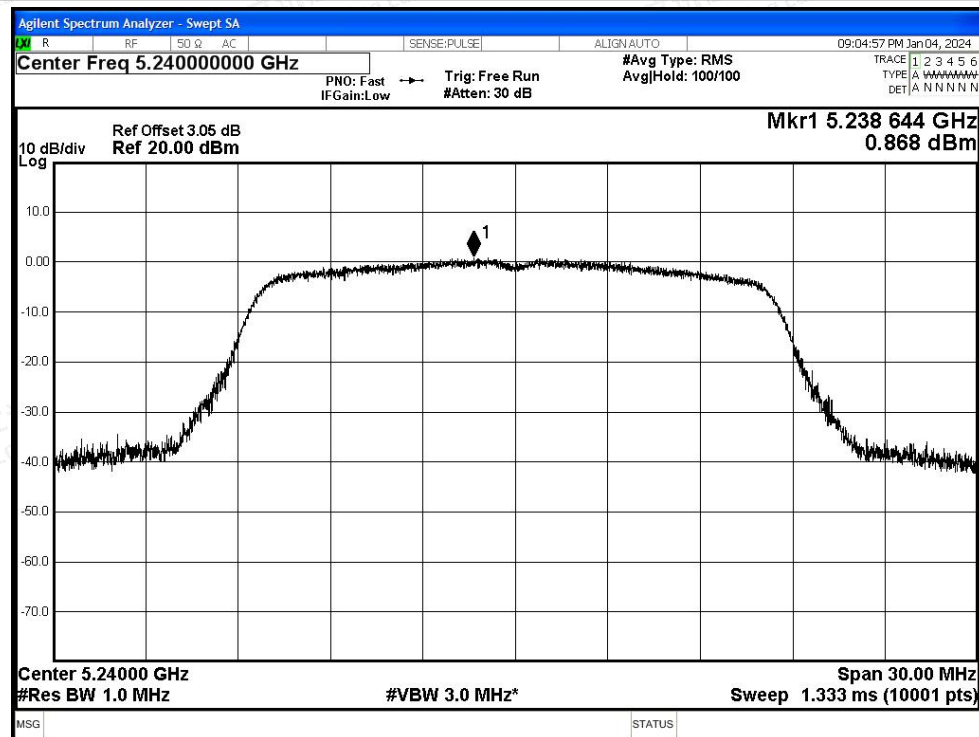
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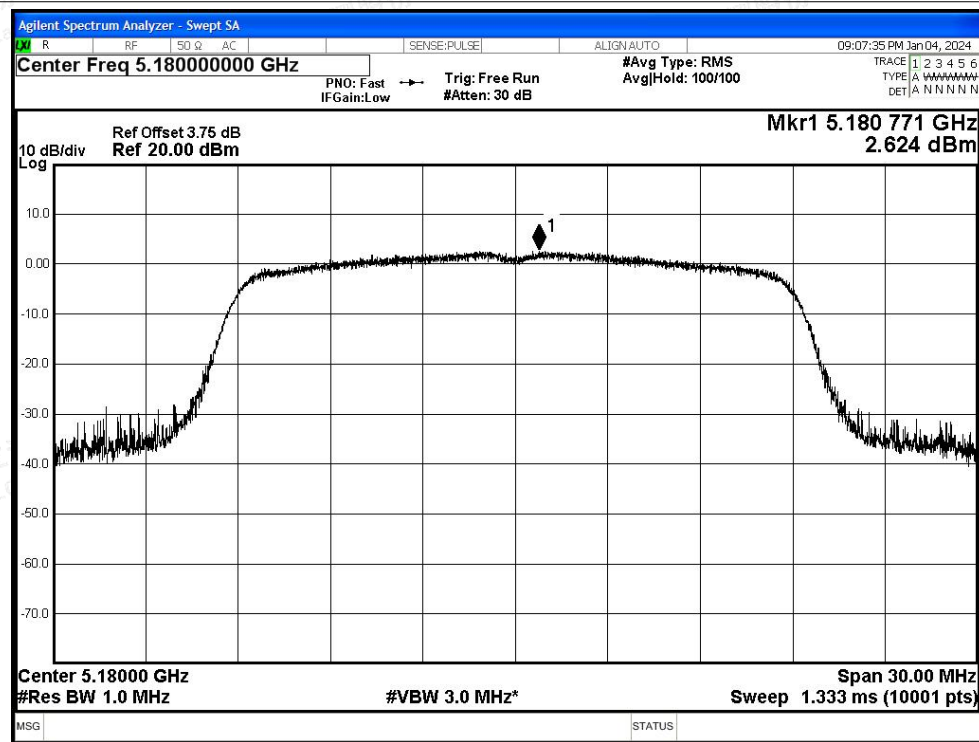
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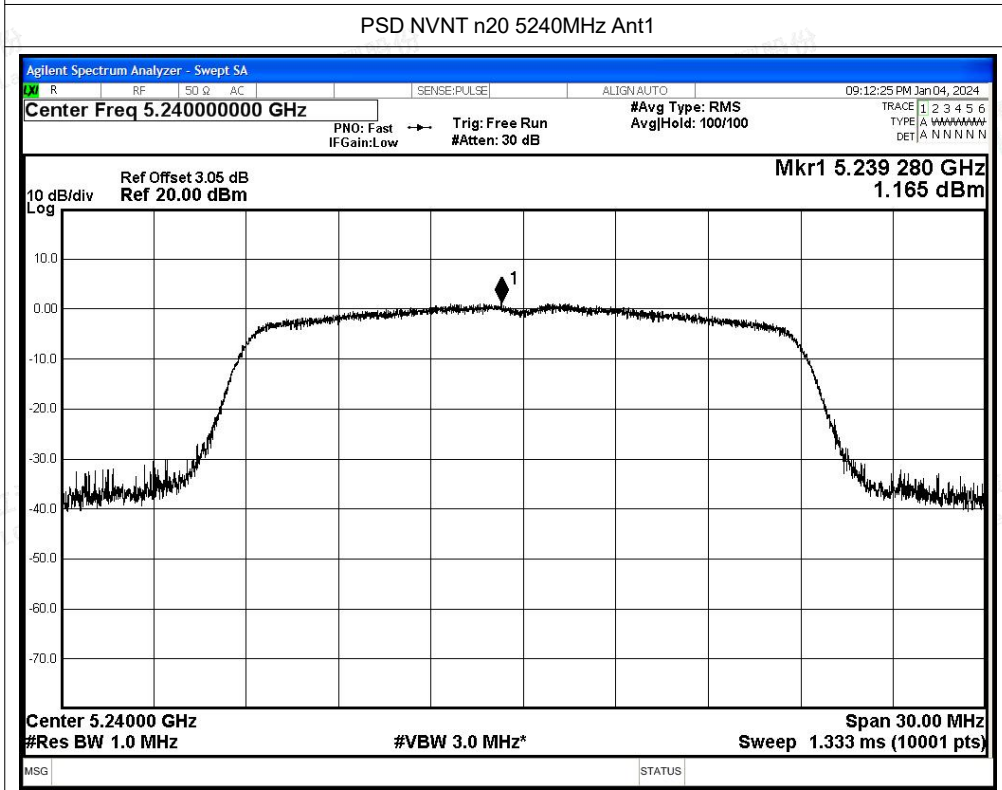
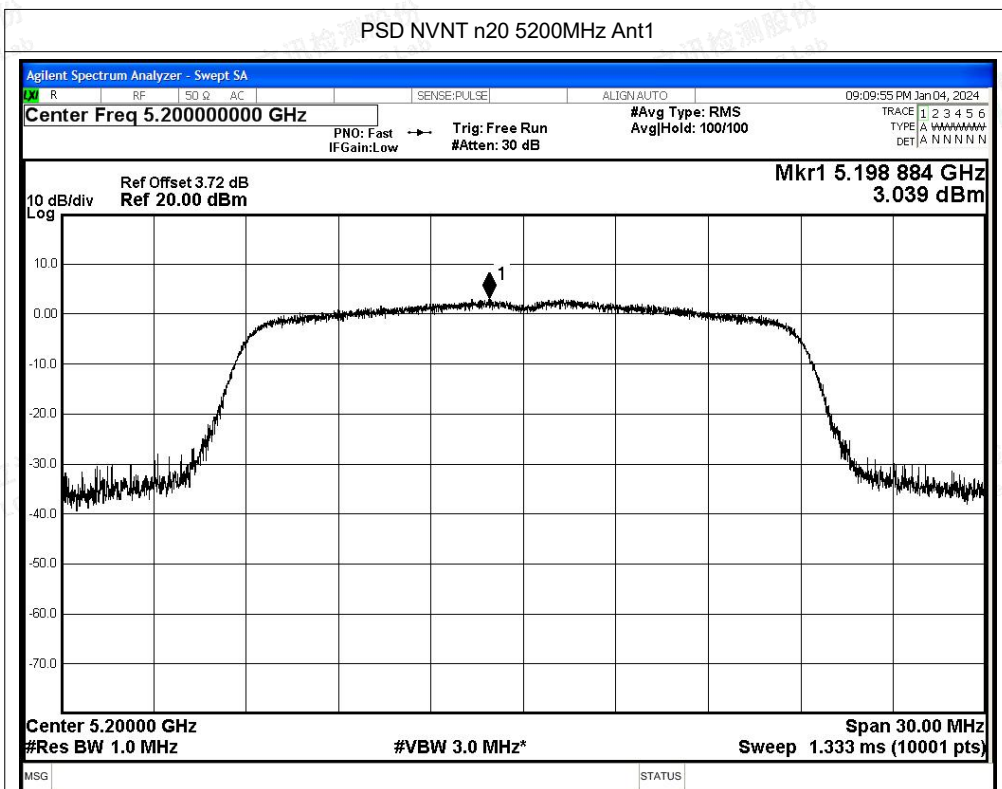


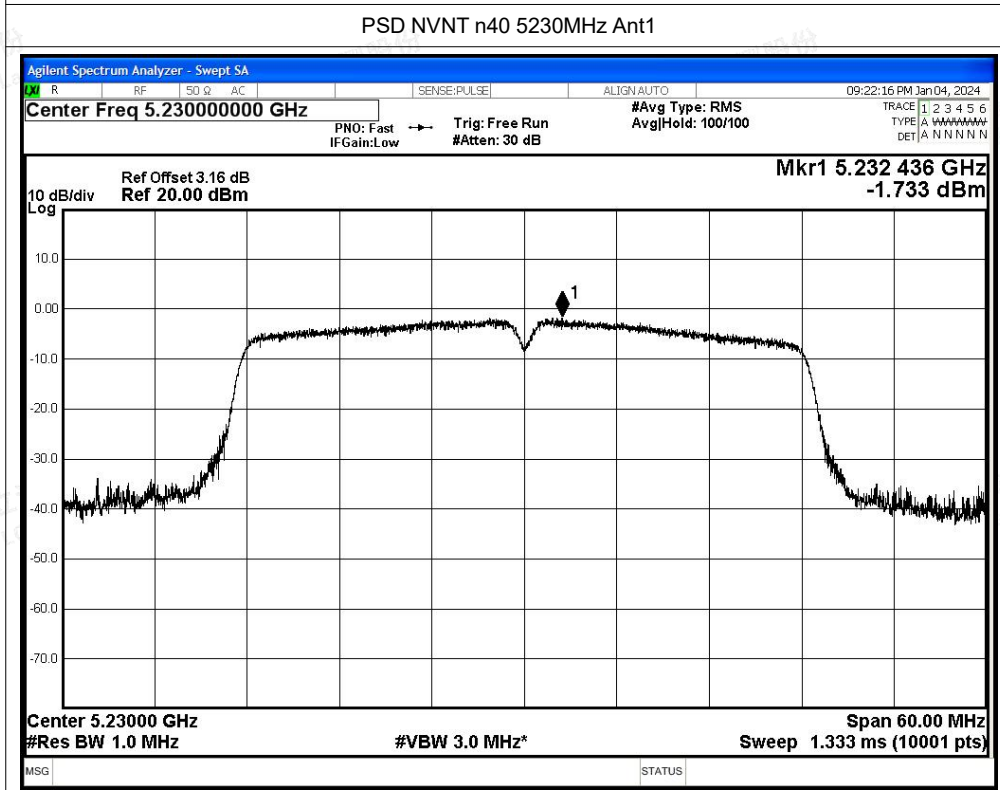
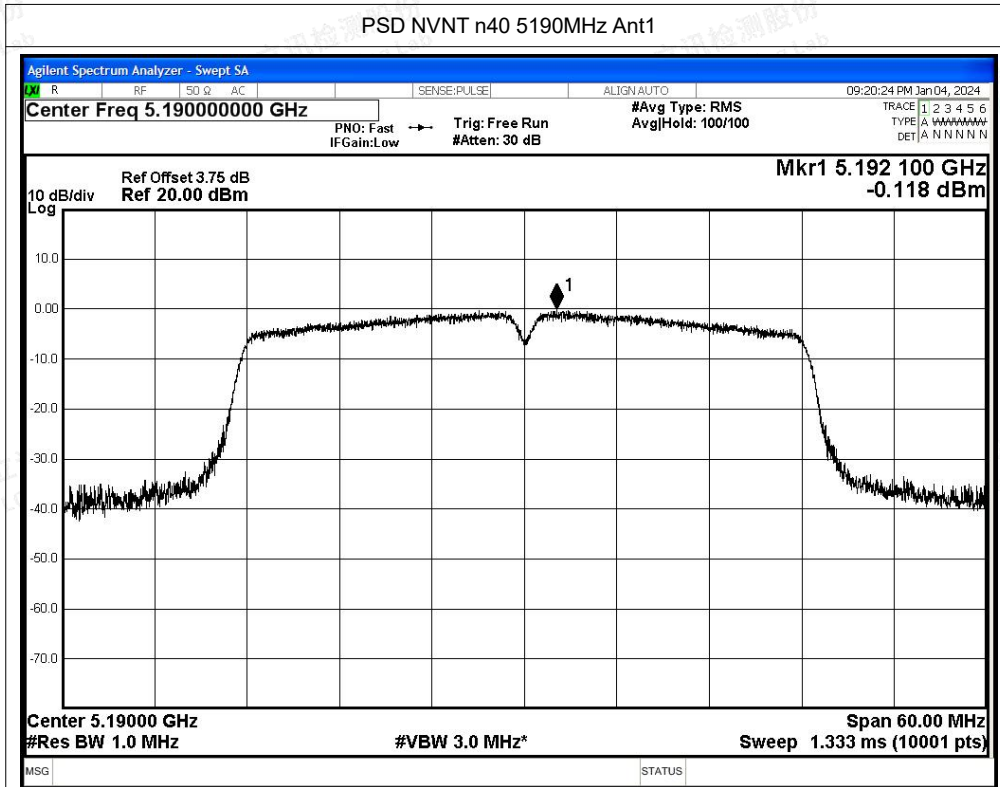
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

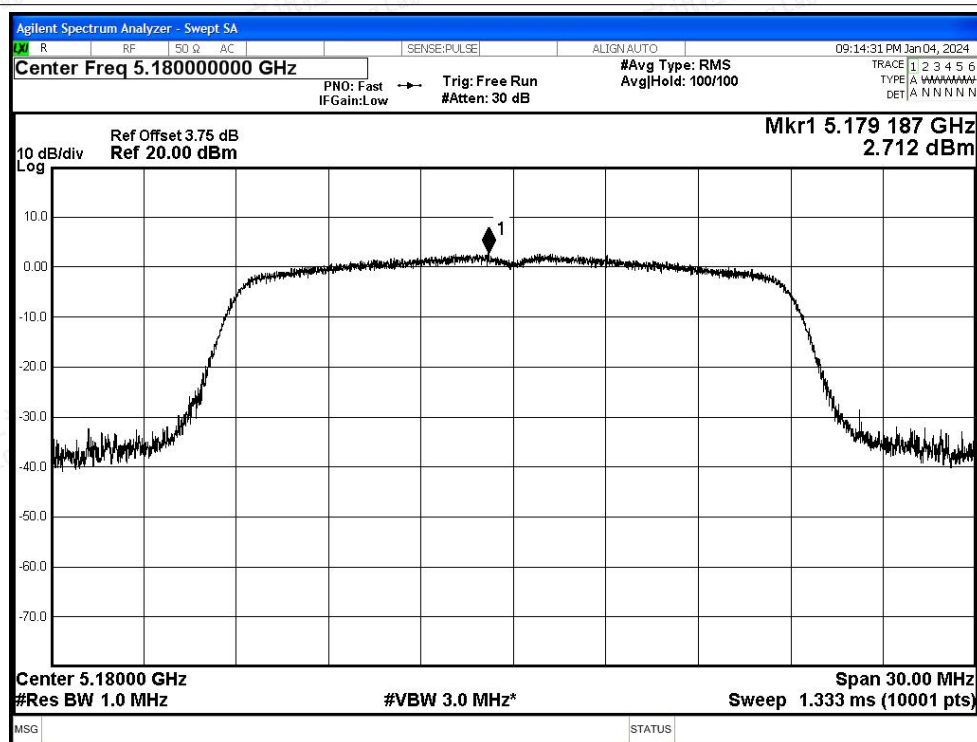




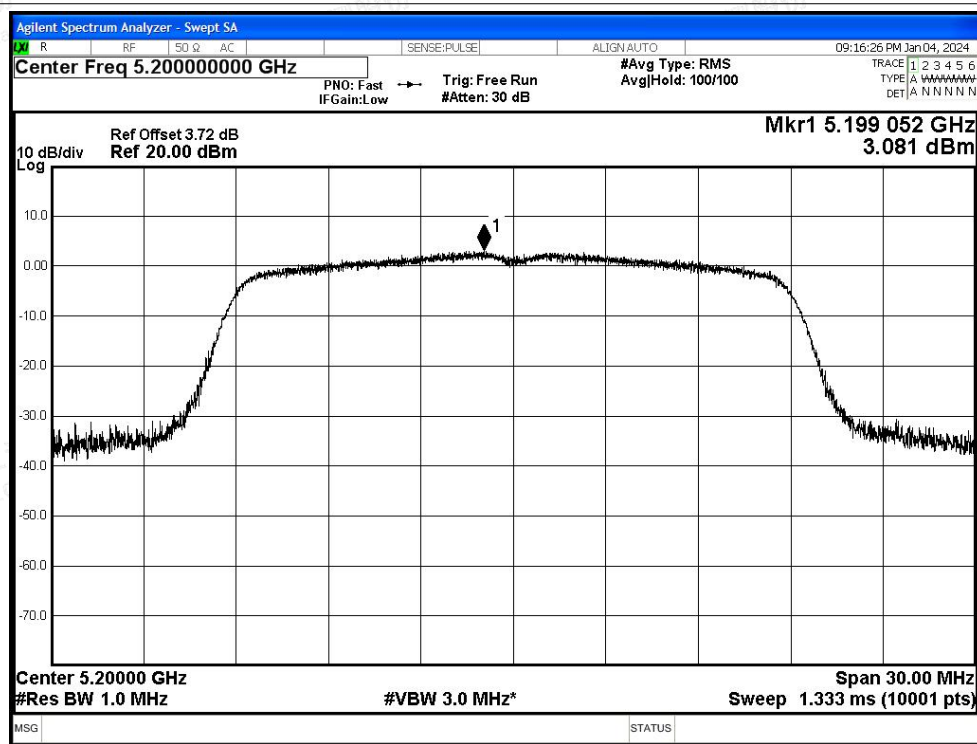




PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

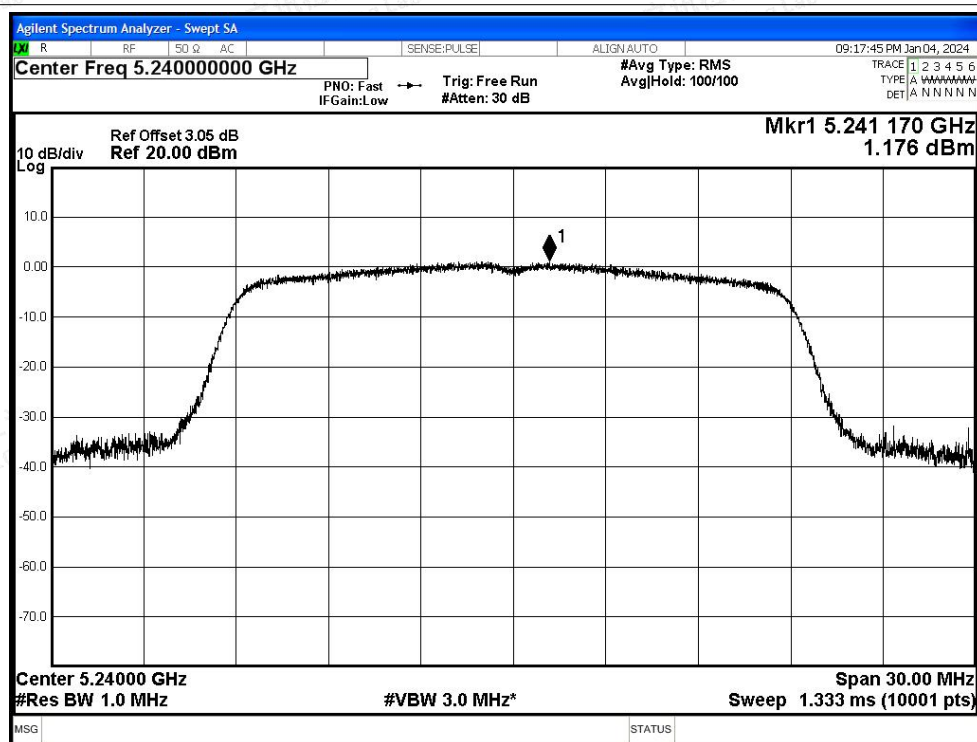
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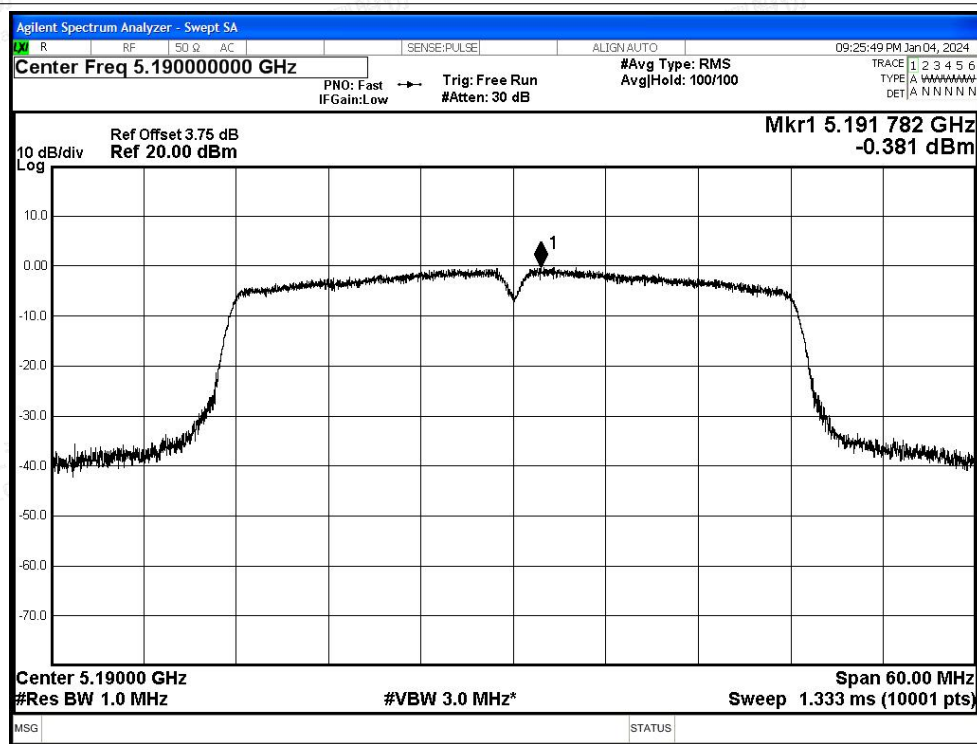
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PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1

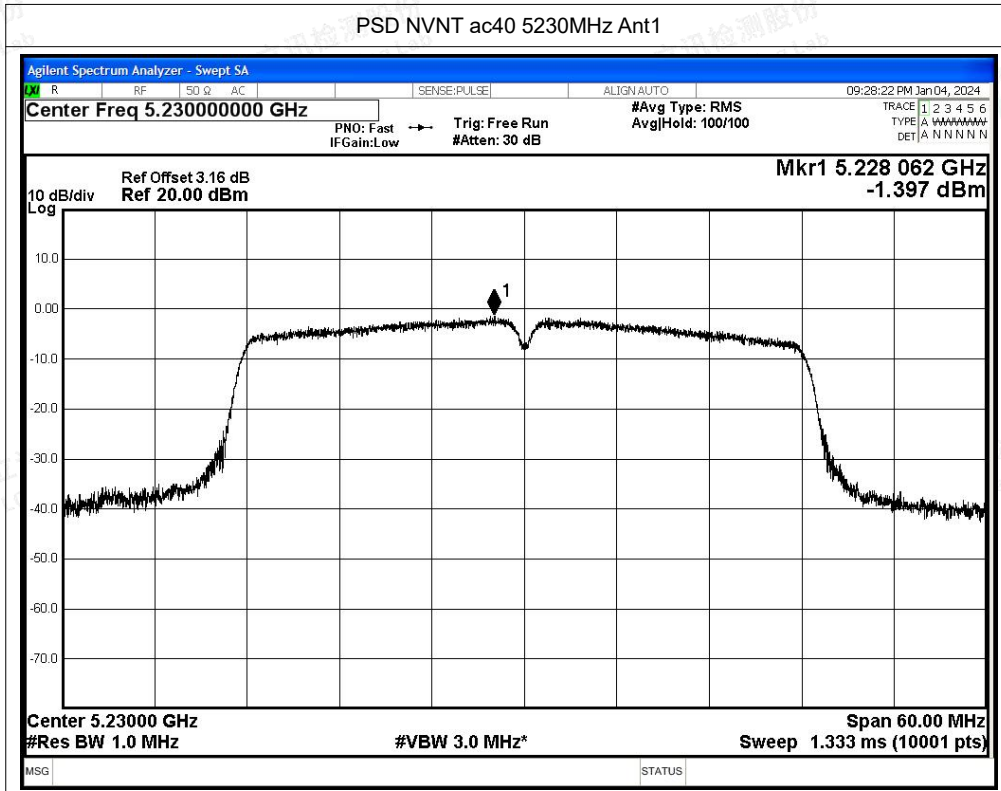


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D.4 Restrict Band

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	-49.38	2.21	-	48.09	Peak	74	Pass
NVNT	a	5180	Ant1	4500	-58.57	2.21	0.13	38.90	Average	54	Pass
NVNT	a	5180	Ant1	5144.7	-37.49	2.21	-	59.98	Peak	74	Pass
NVNT	a	5180	Ant1	5148.2	-50.29	2.21	0.13	47.18	Average	54	Pass
NVNT	a	5180	Ant1	5150	-39.44	2.21	-	58.03	Peak	74	Pass
NVNT	a	5180	Ant1	5150	-51.28	2.21	0.13	46.19	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.17	2.21	-	48.30	Peak	74	Pass
NVNT	a	5240	Ant1	5350	-56.75	2.21	0.14	40.72	Average	54	Pass
NVNT	a	5240	Ant1	5350.8	-46.04	2.21	-	51.43	Peak	74	Pass
NVNT	a	5240	Ant1	5404.32	-56.37	2.21	0.14	41.10	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.91	2.21	-	48.56	Peak	74	Pass
NVNT	a	5240	Ant1	5460	-58.19	2.21	0.14	39.28	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-51.01	2.21	-	46.46	Peak	74	Pass
NVNT	n20	5180	Ant1	4500	-58.94	2.21	0.14	38.53	Average	54	Pass
NVNT	n20	5180	Ant1	5148.2	-33.97	2.21	-	63.50	Peak	74	Pass
NVNT	n20	5180	Ant1	5148.9	-49.5	2.21	0.14	47.97	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-40.02	2.21	-	57.45	Peak	74	Pass
NVNT	n20	5180	Ant1	5150	-49.28	2.21	0.14	48.19	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.92	2.21	-	48.55	Peak	74	Pass
NVNT	n20	5240	Ant1	5350	-56.24	2.21	0.15	41.23	Average	54	Pass
NVNT	n20	5240	Ant1	5435.04	-46.47	2.21	-	51.00	Peak	74	Pass
NVNT	n20	5240	Ant1	5355.6	-56.04	2.21	0.15	41.43	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.19	2.21	-	47.28	Peak	74	Pass
NVNT	n20	5240	Ant1	5460	-58.11	2.21	0.15	39.36	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.26	2.21	-	49.21	Peak	74	Pass
NVNT	n40	5190	Ant1	4500	-57.98	2.21	0.29	39.49	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-40.57	2.21	-	56.90	Peak	74	Pass
NVNT	n40	5190	Ant1	5147.51	-52.15	2.21	0.29	45.32	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-44.62	2.21	-	52.85	Peak	74	Pass
NVNT	n40	5190	Ant1	5150	-52.98	2.21	0.29	44.49	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.17	2.21	-	48.30	Peak	74	Pass
NVNT	n40	5230	Ant1	5350	-56.76	2.21	0.29	40.71	Average	54	Pass
NVNT	n40	5230	Ant1	5411.94	-45.97	2.21	-	51.50	Peak	74	Pass
NVNT	n40	5230	Ant1	5350.65	-56.12	2.21	0.29	41.35	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.53	2.21	-	46.94	Peak	74	Pass
NVNT	n40	5230	Ant1	5460	-58	2.21	0.29	39.47	Average	54	Pass





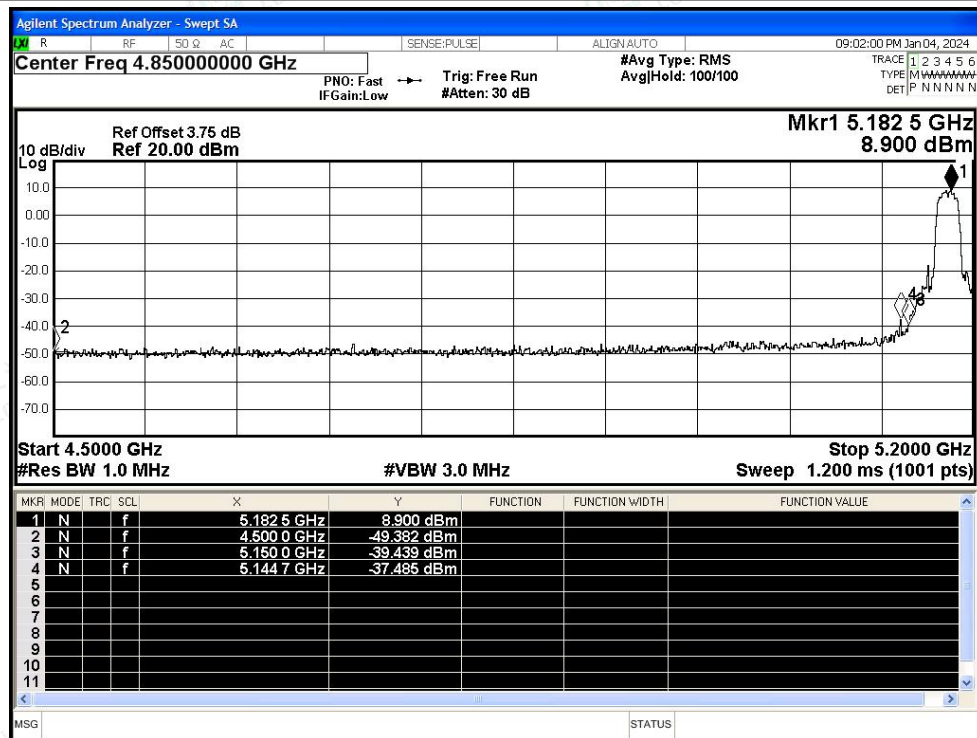
NVNT	ac20	5180	Ant1	4500	-50.41	2.21	-	47.06	Peak	74	Pass
NVNT	ac20	5180	Ant1	4500	-58.17	2.21	0.14	39.30	Average	54	Pass
NVNT	ac20	5180	Ant1	5147.5	-35.75	2.21	-	61.72	Peak	74	Pass
NVNT	ac20	5180	Ant1	5148.9	-49.46	2.21	0.14	48.01	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-37.25	2.21	-	60.22	Peak	74	Pass
NVNT	ac20	5180	Ant1	5150	-48.67	2.21	0.14	48.80	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.5	2.21	-	47.97	Peak	74	Pass
NVNT	ac20	5240	Ant1	5350	-57.27	2.21	0.15	40.20	Average	54	Pass
NVNT	ac20	5240	Ant1	5401.2	-46.68	2.21	-	50.79	Peak	74	Pass
NVNT	ac20	5240	Ant1	5364.48	-56.56	2.21	0.15	40.91	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.93	2.21	-	46.54	Peak	74	Pass
NVNT	ac20	5240	Ant1	5460	-57.54	2.21	0.15	39.93	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.17	2.21	-	48.30	Peak	74	Pass
NVNT	ac40	5190	Ant1	4500	-58.09	2.21	0.28	39.38	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-29.19	2.21	-	68.28	Peak	74	Pass
NVNT	ac40	5190	Ant1	5149.7	-43.8	2.21	0.28	53.67	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-29.19	2.21	-	68.28	Peak	74	Pass
NVNT	ac40	5190	Ant1	5150	-43.8	2.21	0.28	53.67	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-47.78	2.21	-	49.69	Peak	74	Pass
NVNT	ac40	5230	Ant1	5350	-56.36	2.21	0.28	41.11	Average	54	Pass
NVNT	ac40	5230	Ant1	5394.66	-45.98	2.21	-	51.49	Peak	74	Pass
NVNT	ac40	5230	Ant1	5351.46	-55.91	2.21	0.28	41.56	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-48.84	2.21	-	48.63	Peak	74	Pass
NVNT	ac40	5230	Ant1	5460	-57.98	2.21	0.28	39.49	Average	54	Pass



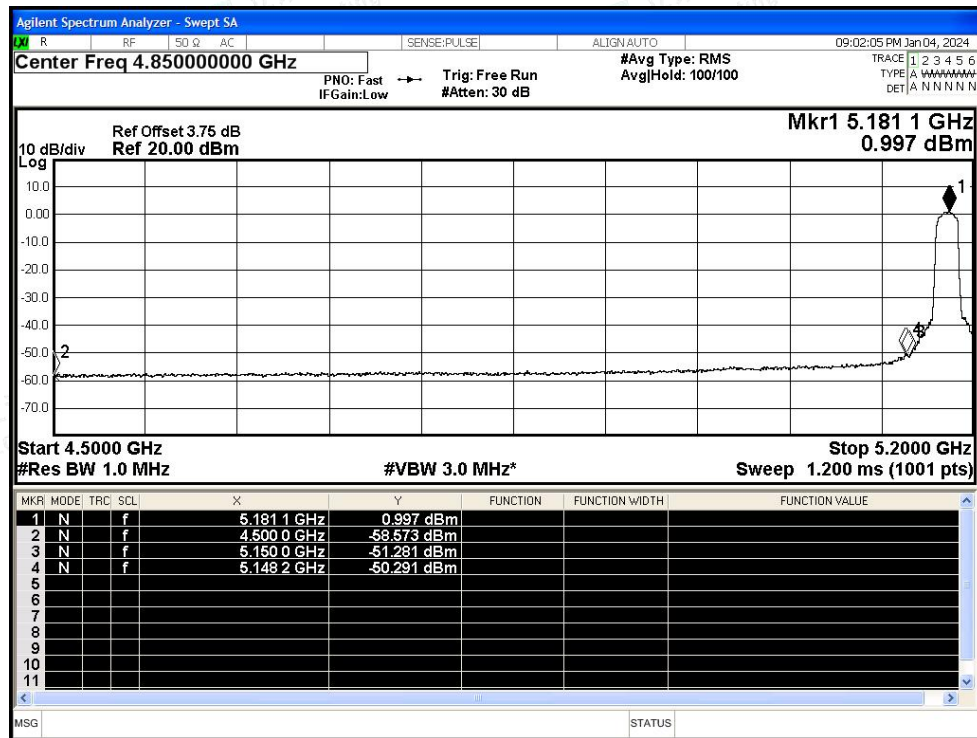


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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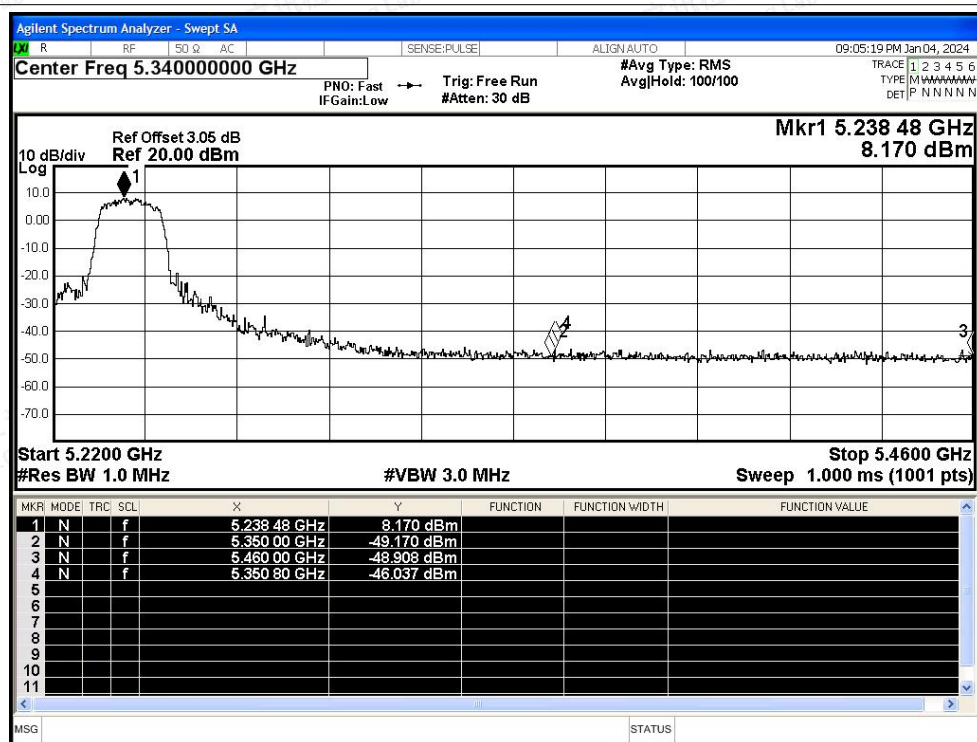
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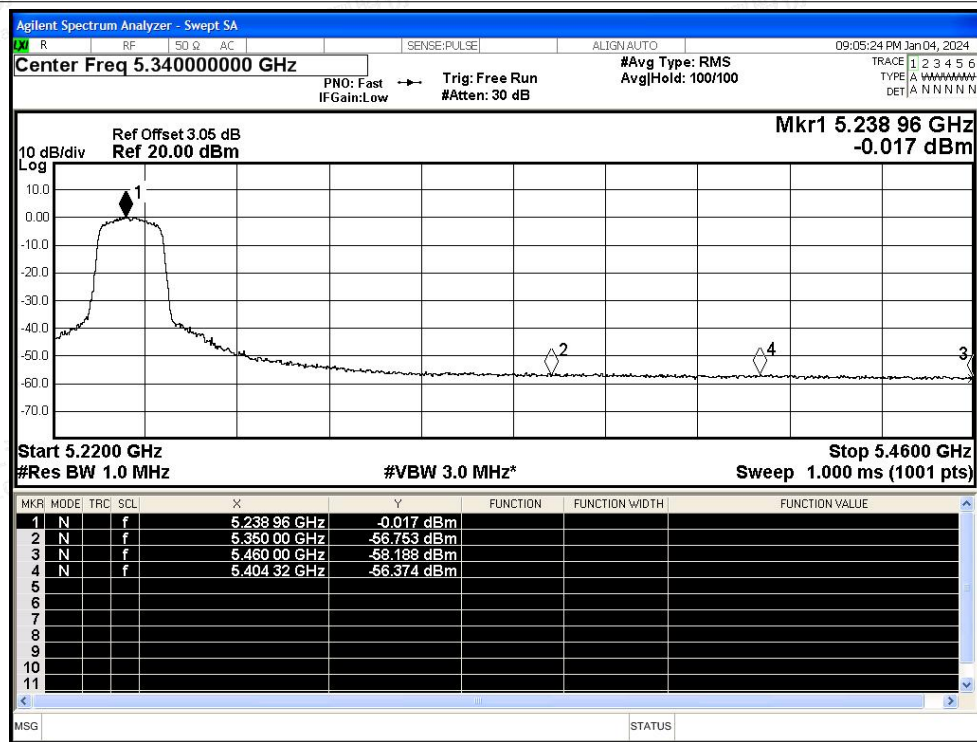
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



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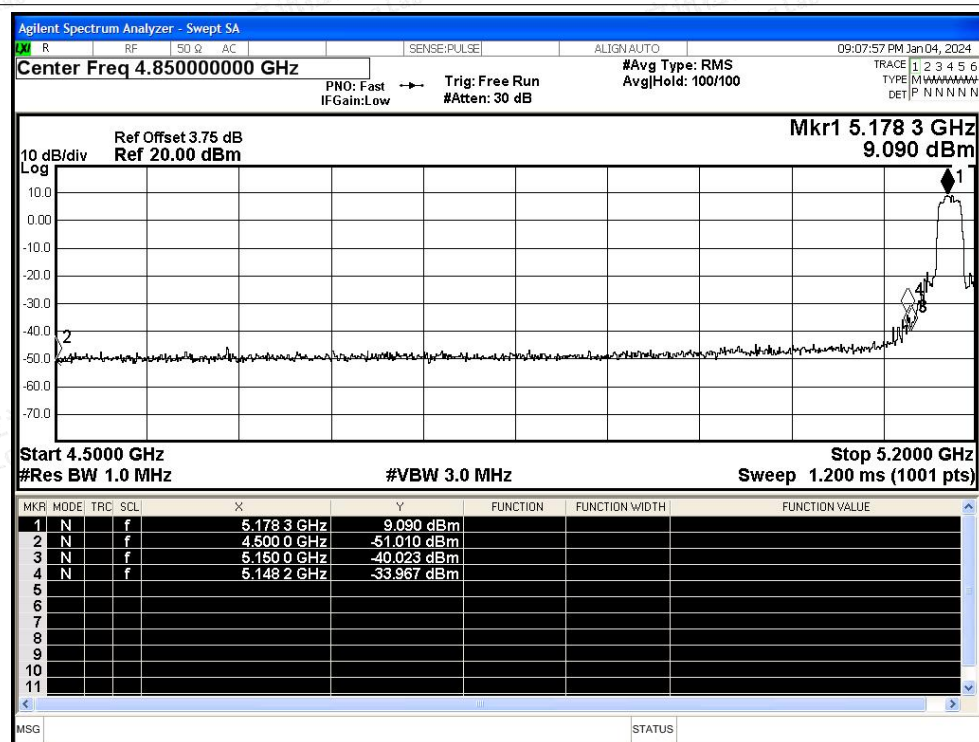
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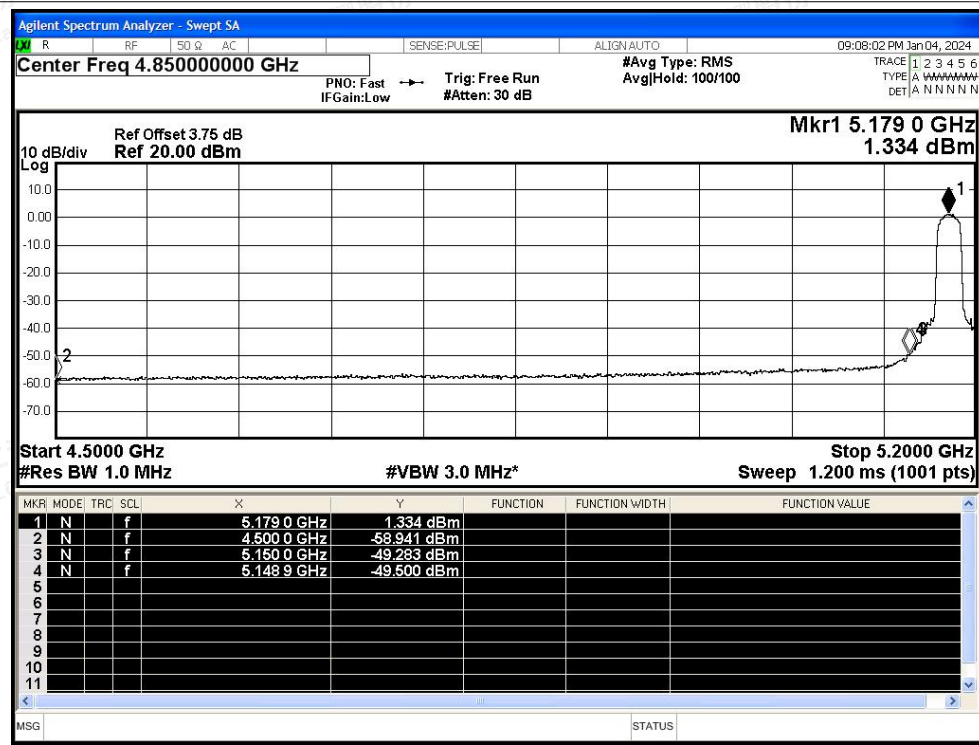
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



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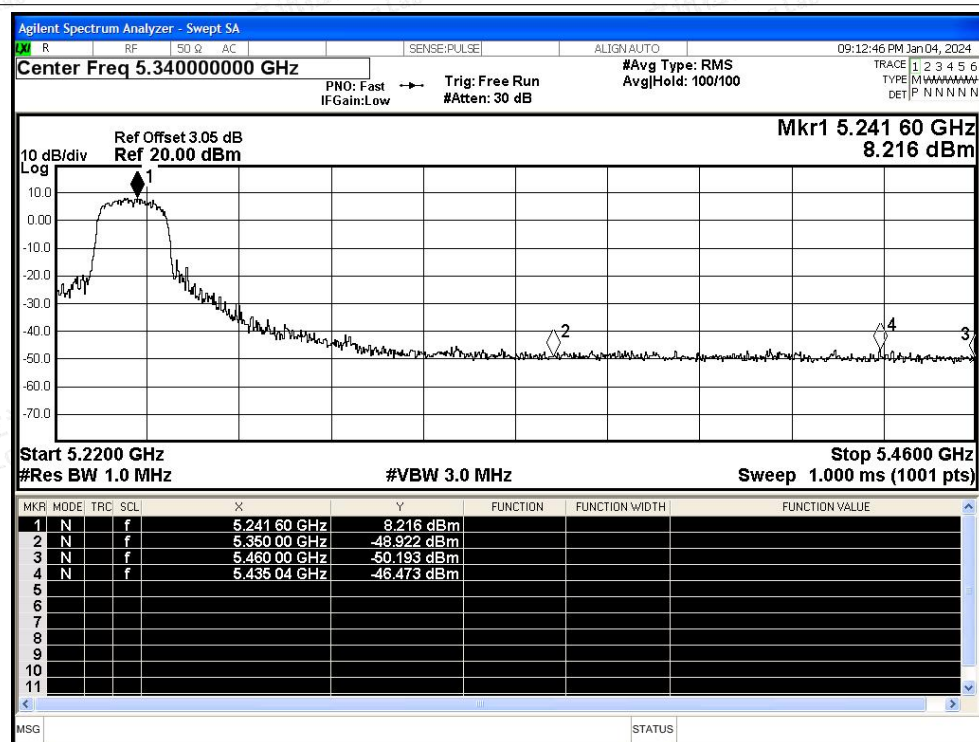
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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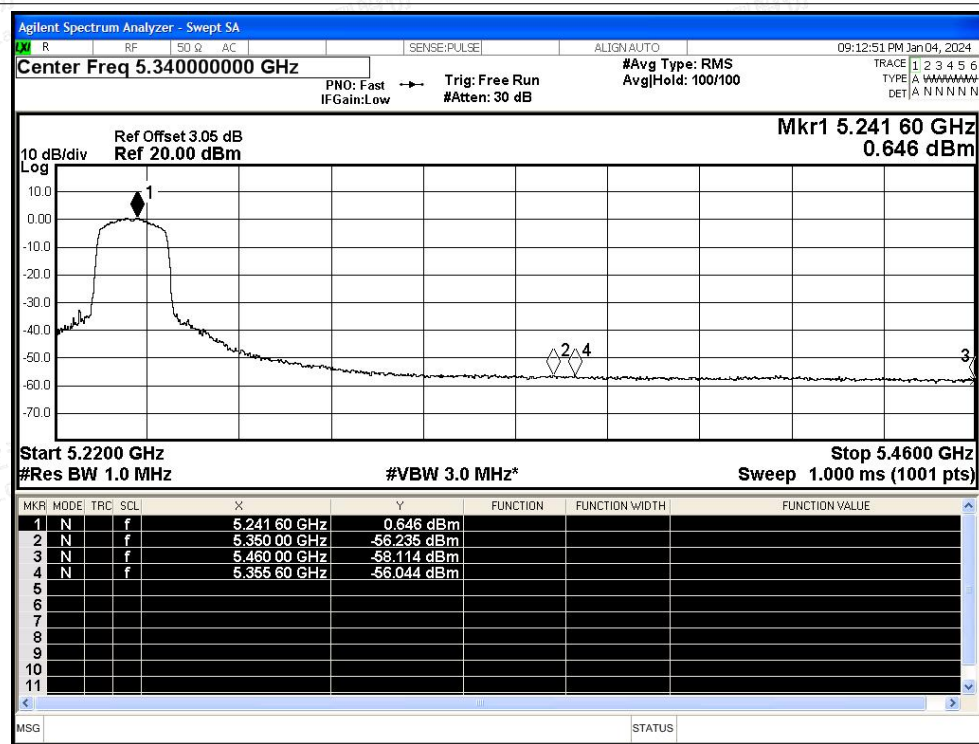
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak

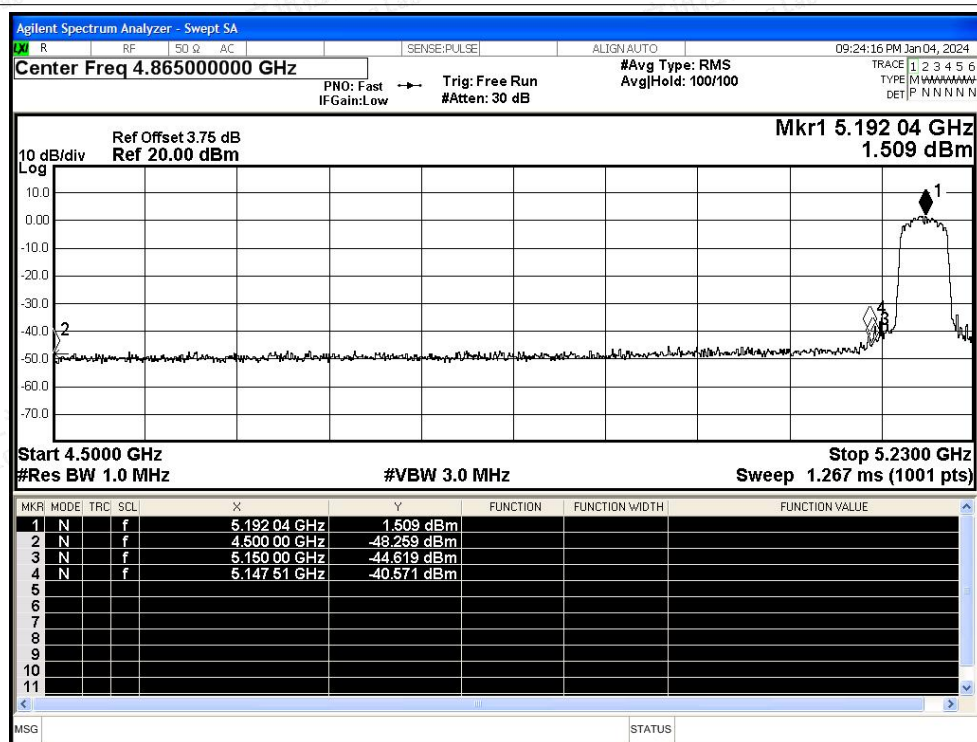


Restrict Band NVNT n20 5240MHz Ant1 Average

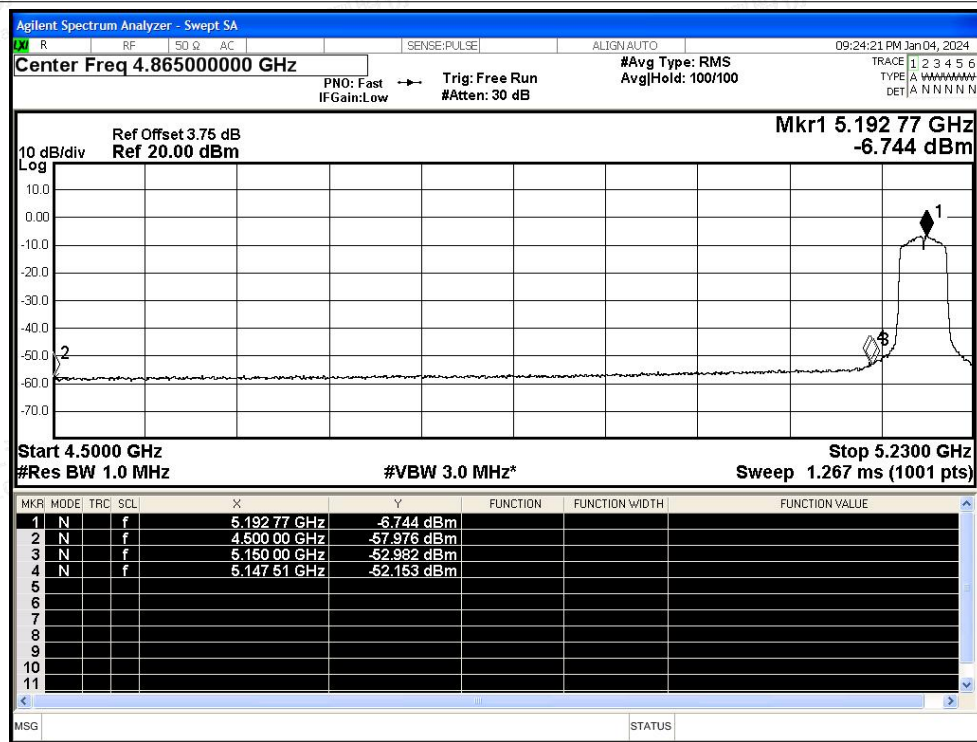




Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

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