



Appendix C

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Sample Demo CART 2D/S

Test Model: CART 2D/S

Environmental Conditions

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



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C.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.841	≥ 0.5	Pass
NVNT	a	5200	Ant1	19.743	≥ 0.5	Pass
NVNT	a	5240	Ant1	19.436	≥ 0.5	Pass
NVNT	n20	5180	Ant1	19.963	≥ 0.5	Pass
NVNT	n20	5200	Ant1	20.032	≥ 0.5	Pass
NVNT	n20	5240	Ant1	19.709	≥ 0.5	Pass
NVNT	n40	5190	Ant1	40.597	≥ 0.5	Pass
NVNT	n40	5230	Ant1	40.235	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	19.928	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	19.914	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	19.957	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	39.968	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	40.731	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	80.234	≥ 0.5	Pass

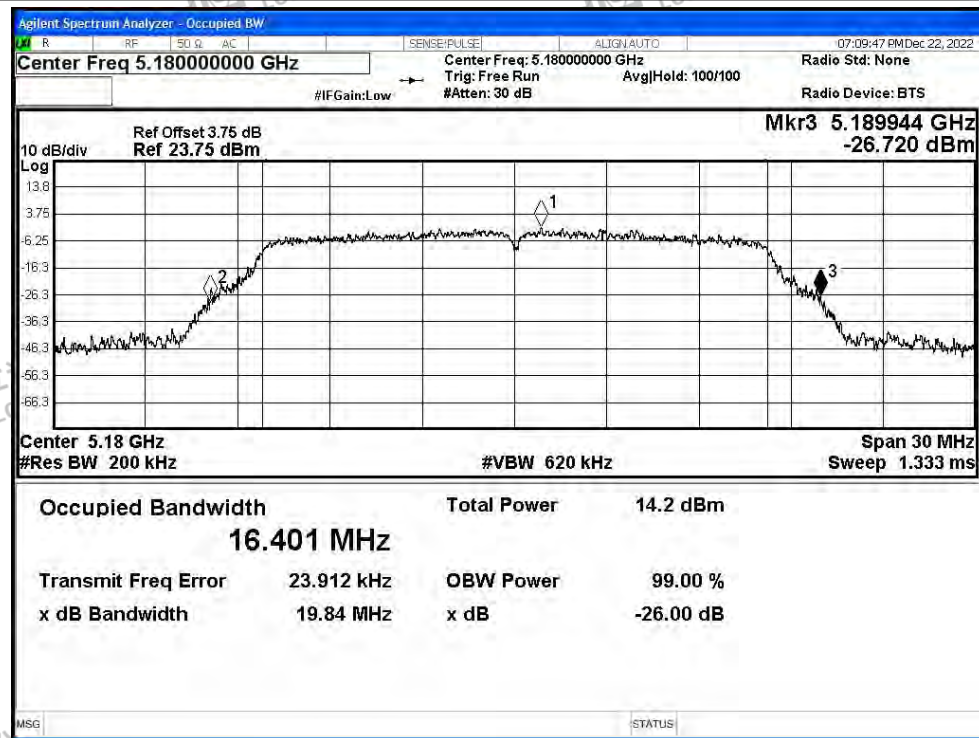


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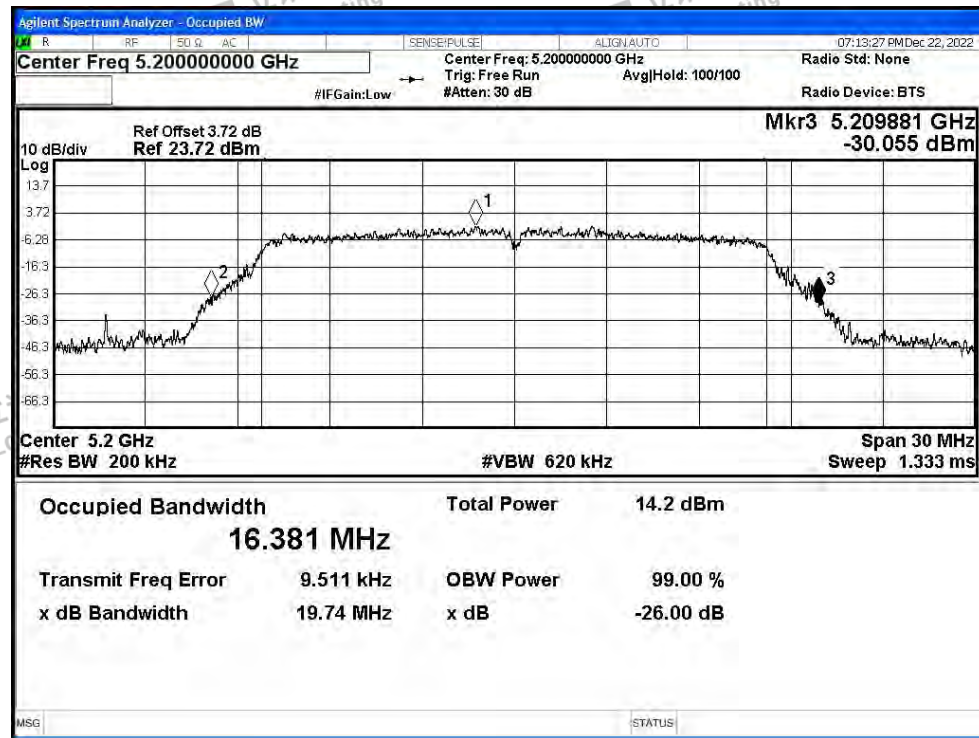


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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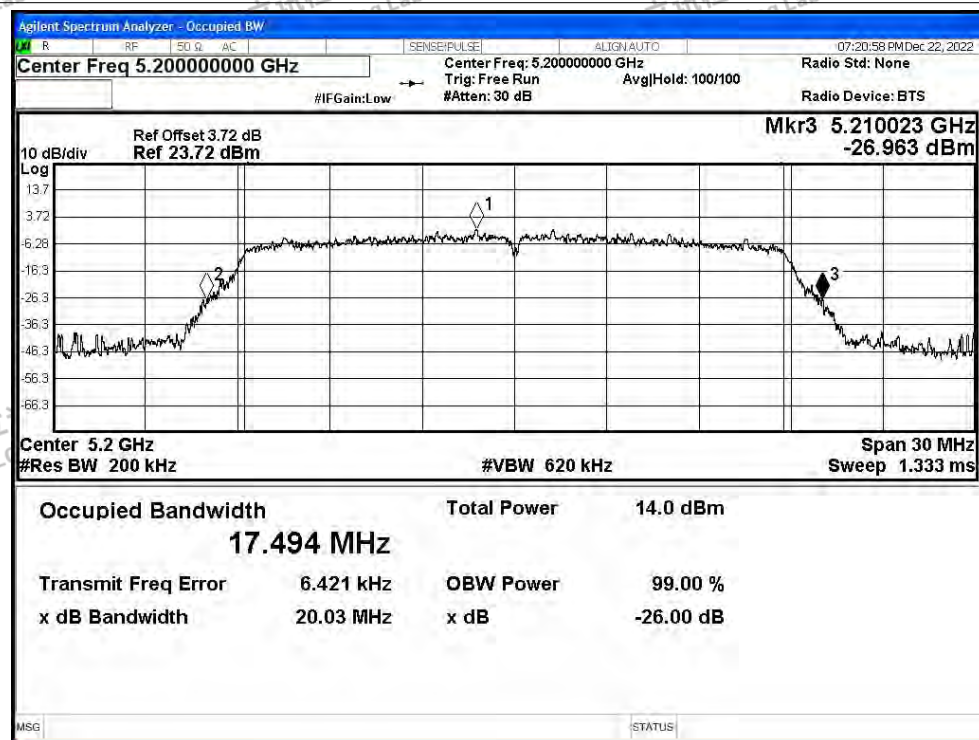
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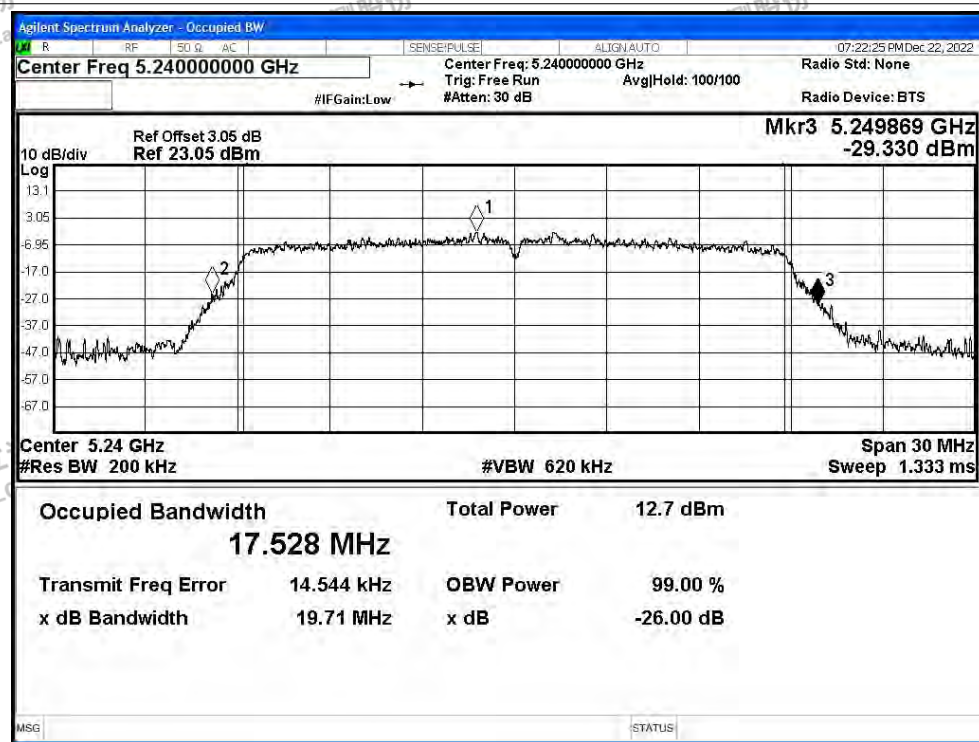
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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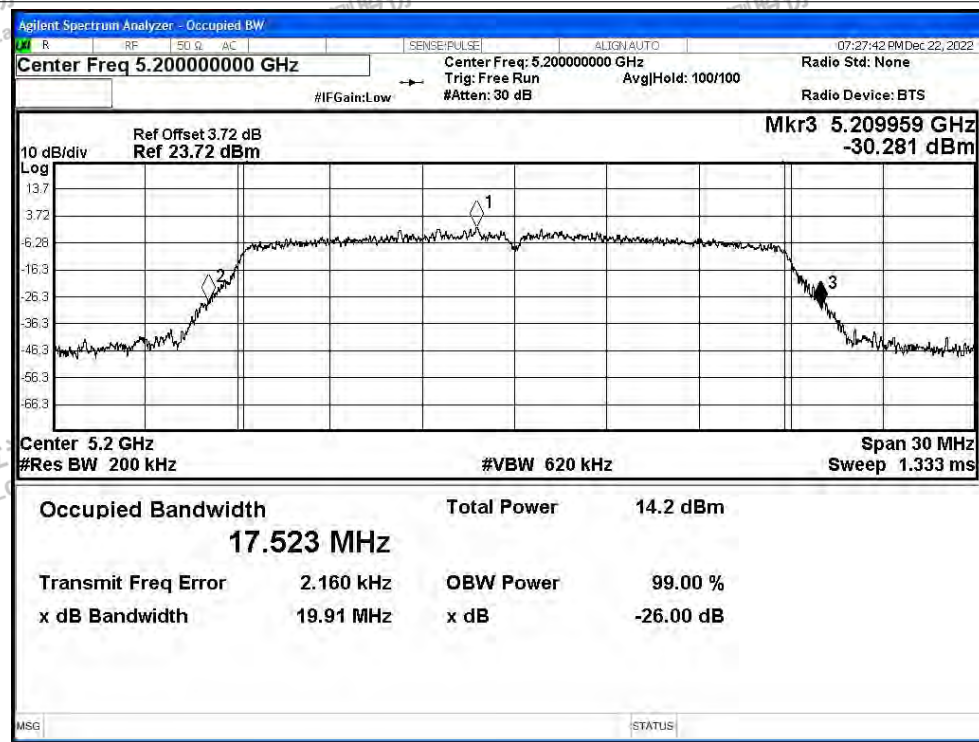
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



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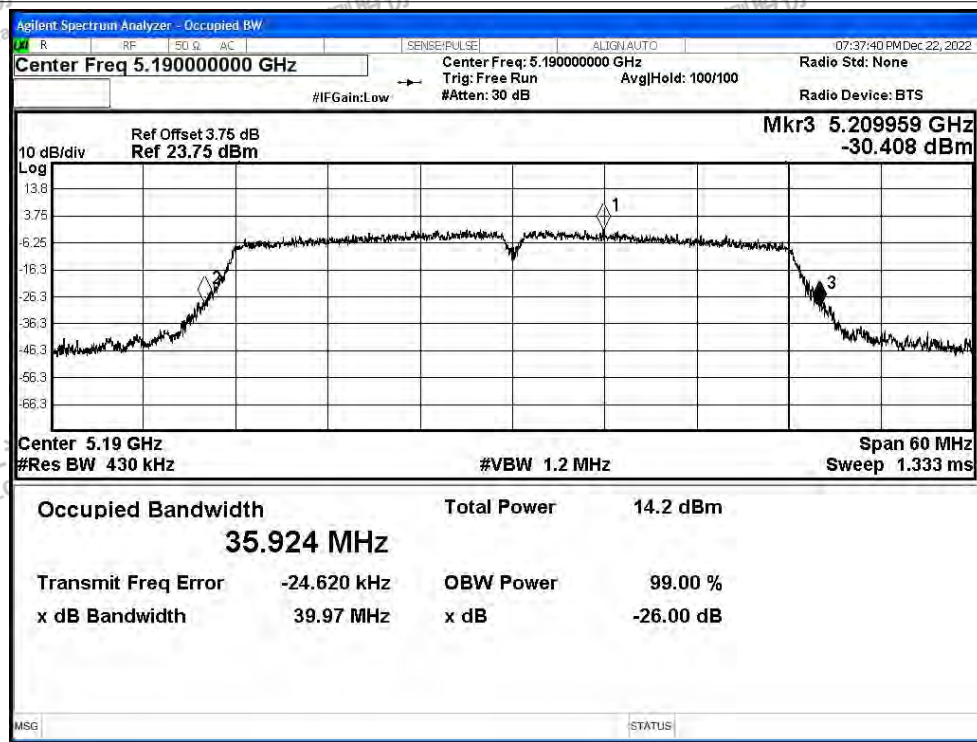




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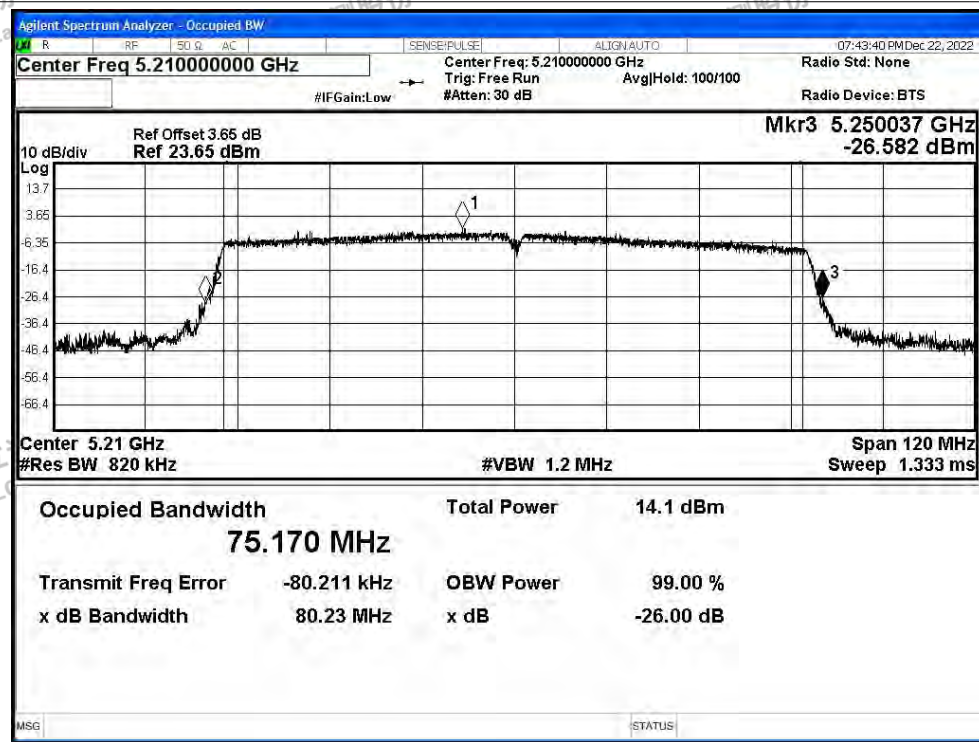




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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C.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	6.70	0.13	6.83	24	Pass
NVNT	a	5200	Ant1	6.65	0.14	6.79	24	Pass
NVNT	a	5240	Ant1	6.19	0.13	6.32	24	Pass
NVNT	n20	5180	Ant1	6.64	0.15	6.79	24	Pass
NVNT	n20	5200	Ant1	6.36	0.15	6.51	24	Pass
NVNT	n20	5240	Ant1	6.56	0.15	6.71	24	Pass
NVNT	n40	5190	Ant1	6.32	0.28	6.60	24	Pass
NVNT	n40	5230	Ant1	6.60	0.28	6.88	24	Pass
NVNT	ac20	5180	Ant1	6.48	0.14	6.62	24	Pass
NVNT	ac20	5200	Ant1	6.55	0.14	6.69	24	Pass
NVNT	ac20	5240	Ant1	6.66	0.15	6.81	24	Pass
NVNT	ac40	5190	Ant1	6.37	0.28	6.65	24	Pass
NVNT	ac40	5230	Ant1	6.62	0.28	6.90	24	Pass
NVNT	ac80	5210	Ant1	6.26	0.55	6.81	24	Pass



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C.3 Maximum Power Spectral Density Level

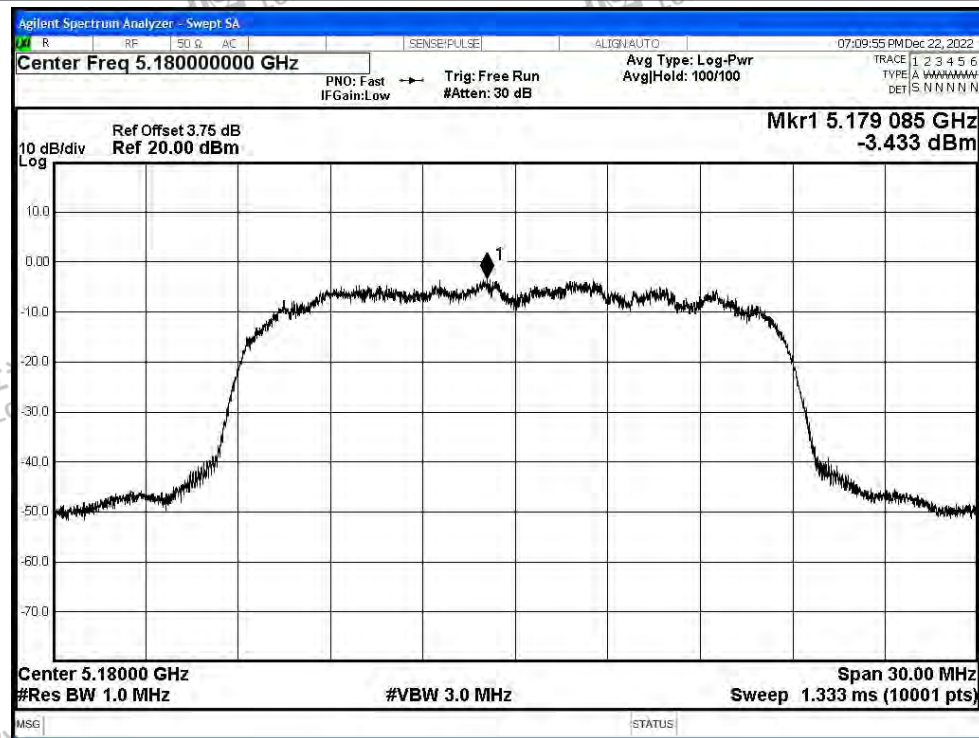
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-3.43	0.13	-3.30	11	Pass
NVNT	a	5200	Ant1	-3.05	0.14	-2.91	11	Pass
NVNT	a	5240	Ant1	-3.89	0.13	-3.76	11	Pass
NVNT	n20	5180	Ant1	-3.34	0.15	-3.19	11	Pass
NVNT	n20	5200	Ant1	-3.73	0.15	-3.58	11	Pass
NVNT	n20	5240	Ant1	-5.05	0.15	-4.90	11	Pass
NVNT	n40	5190	Ant1	-6.85	0.28	-6.57	11	Pass
NVNT	n40	5230	Ant1	-9.52	0.28	-9.24	11	Pass
NVNT	ac20	5180	Ant1	-3.7	0.14	-3.56	11	Pass
NVNT	ac20	5200	Ant1	-3.87	0.14	-3.73	11	Pass
NVNT	ac20	5240	Ant1	-5.9	0.15	-5.75	11	Pass
NVNT	ac40	5190	Ant1	-7.65	0.28	-7.37	11	Pass
NVNT	ac40	5230	Ant1	-7.51	0.28	-7.23	11	Pass
NVNT	ac80	5210	Ant1	-14.3	0.55	-13.75	11	Pass



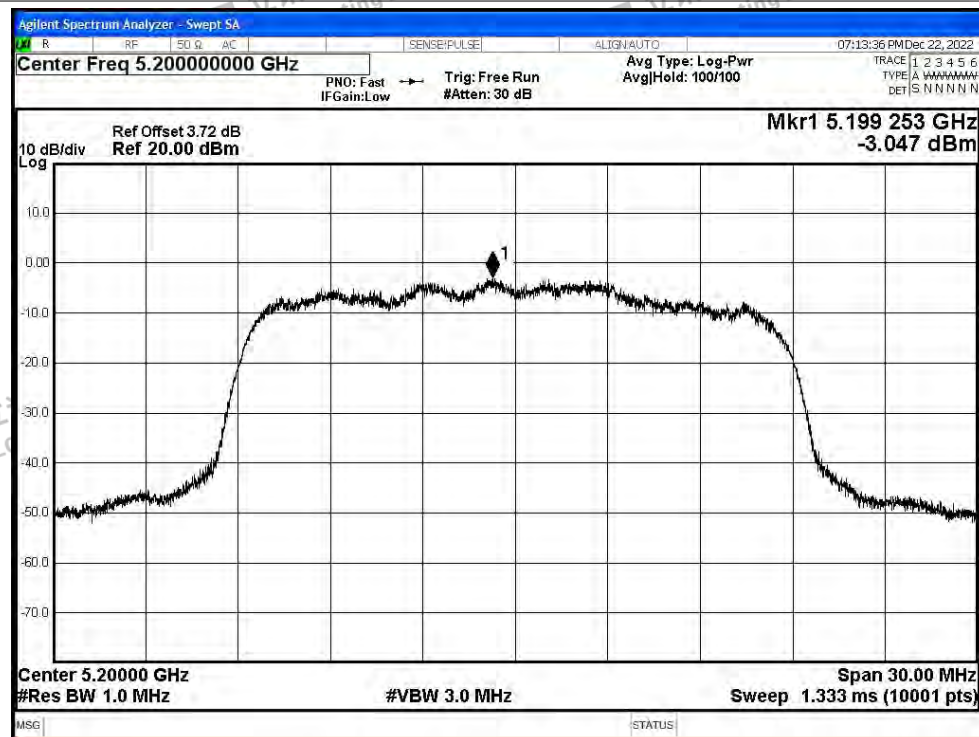


Test Graphs

PSD NVNT a 5180MHz Ant1

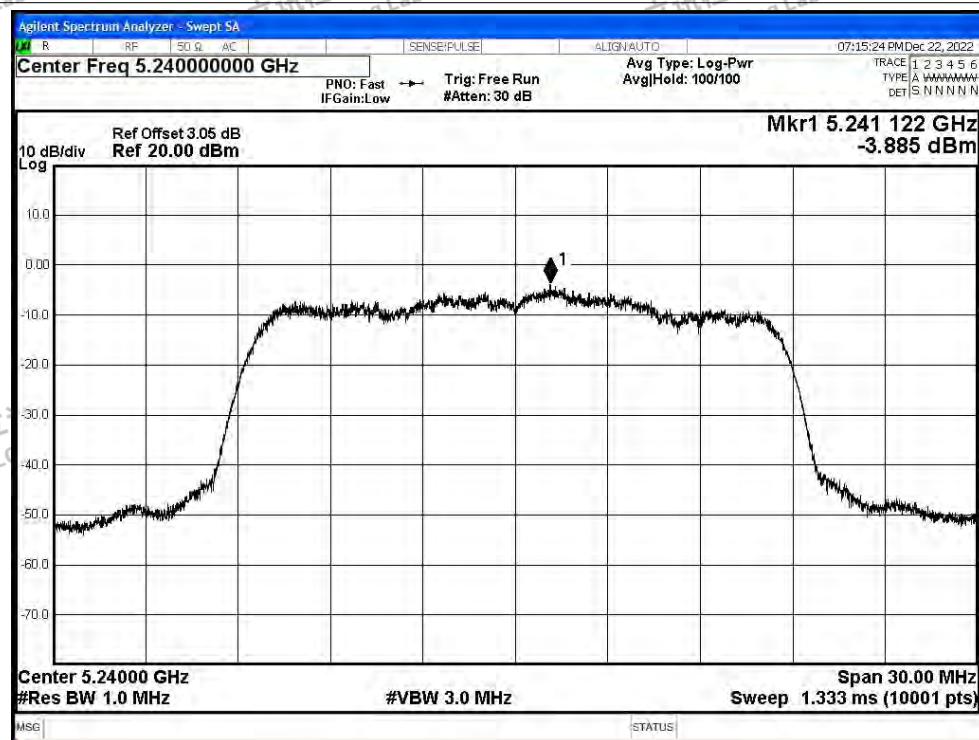


PSD NVNT a 5200MHz Ant1

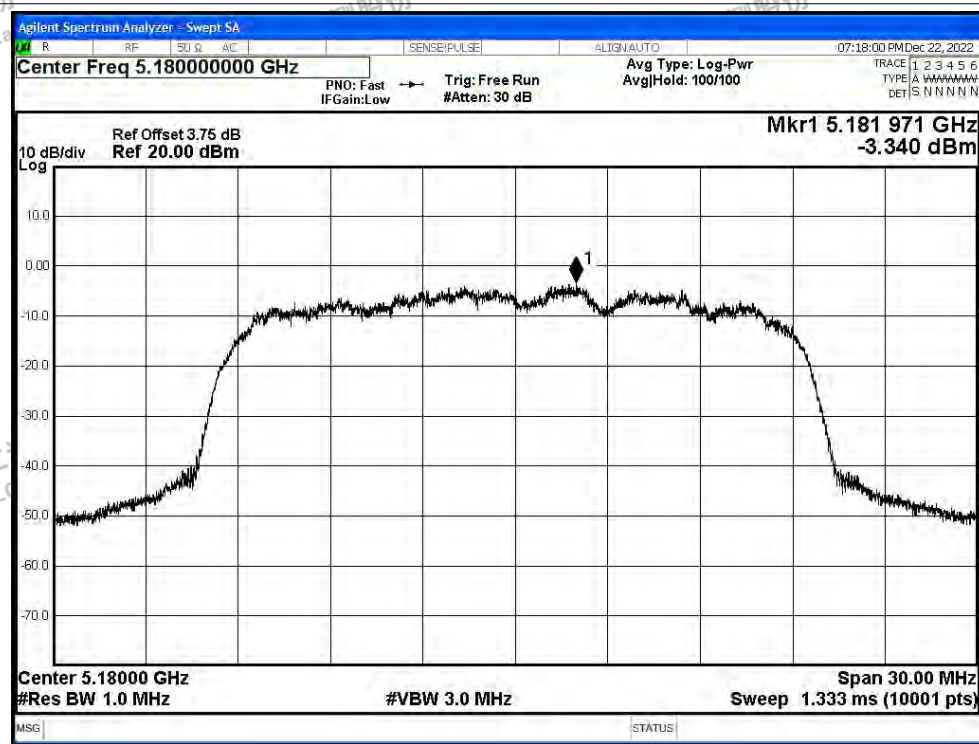




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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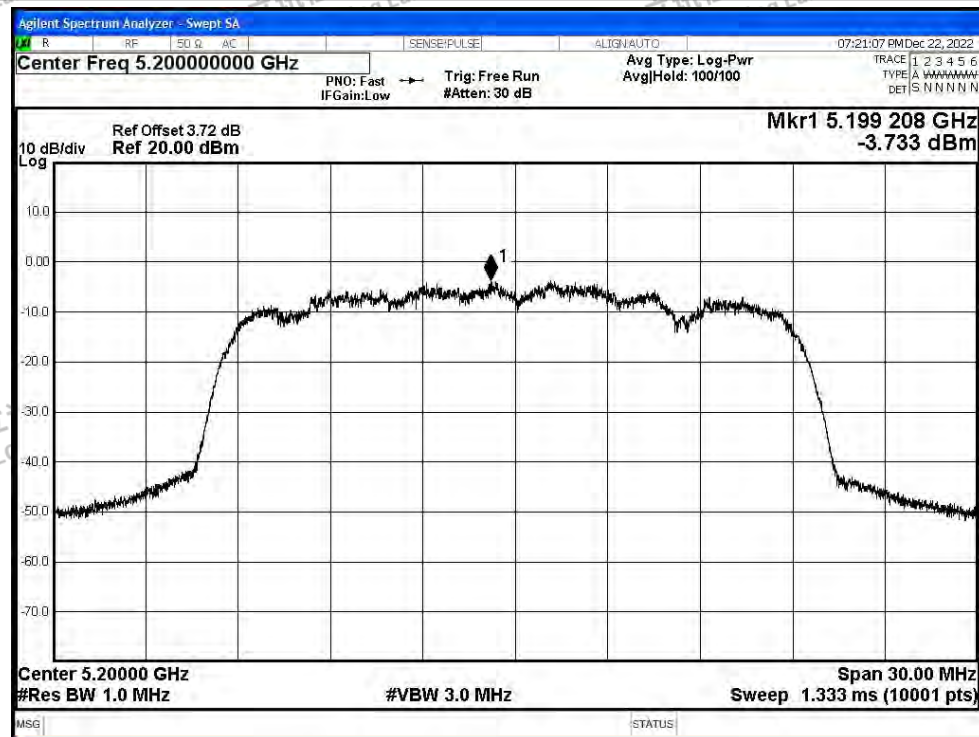
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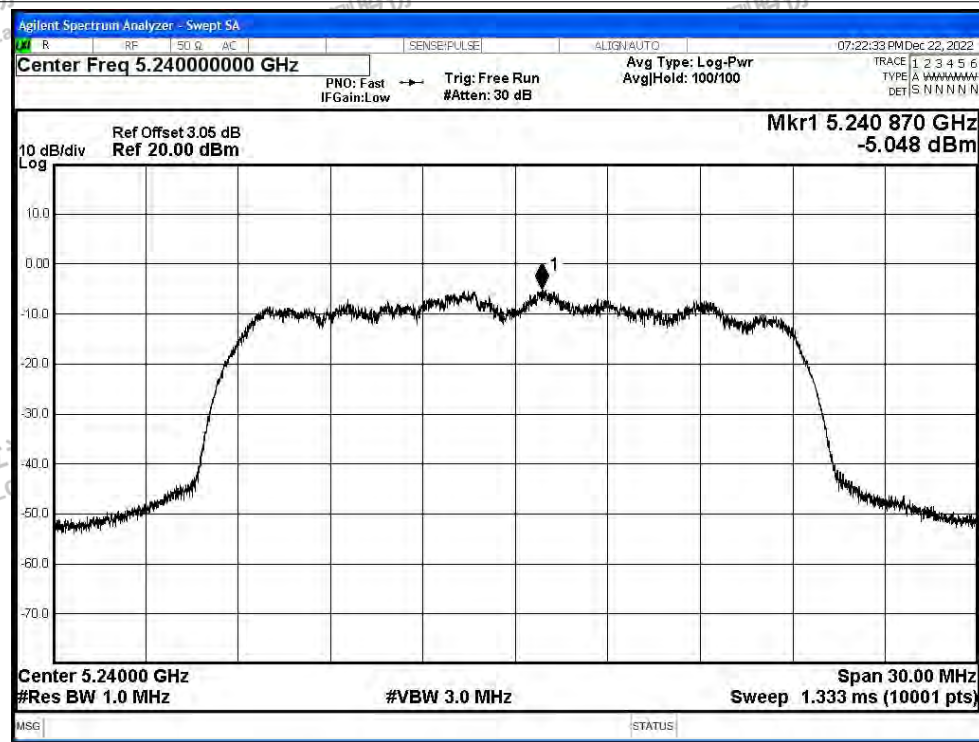
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PSD NVNT n20 5200MHz Ant1

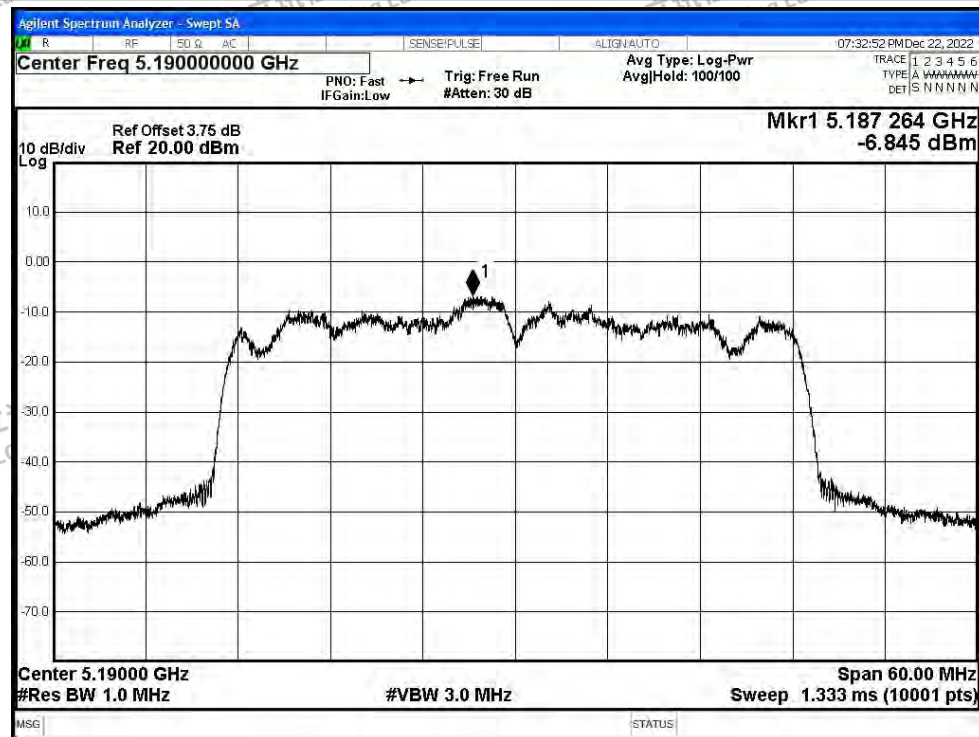


PSD NVNT n20 5240MHz Ant1

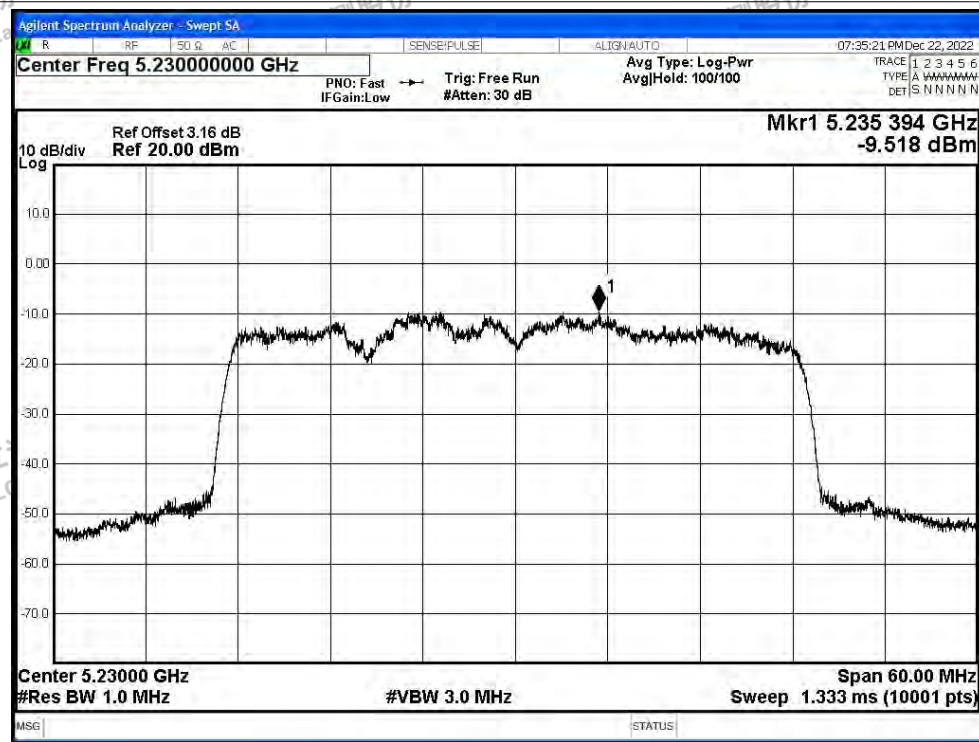




PSD NVNT n40 5190MHz Ant1

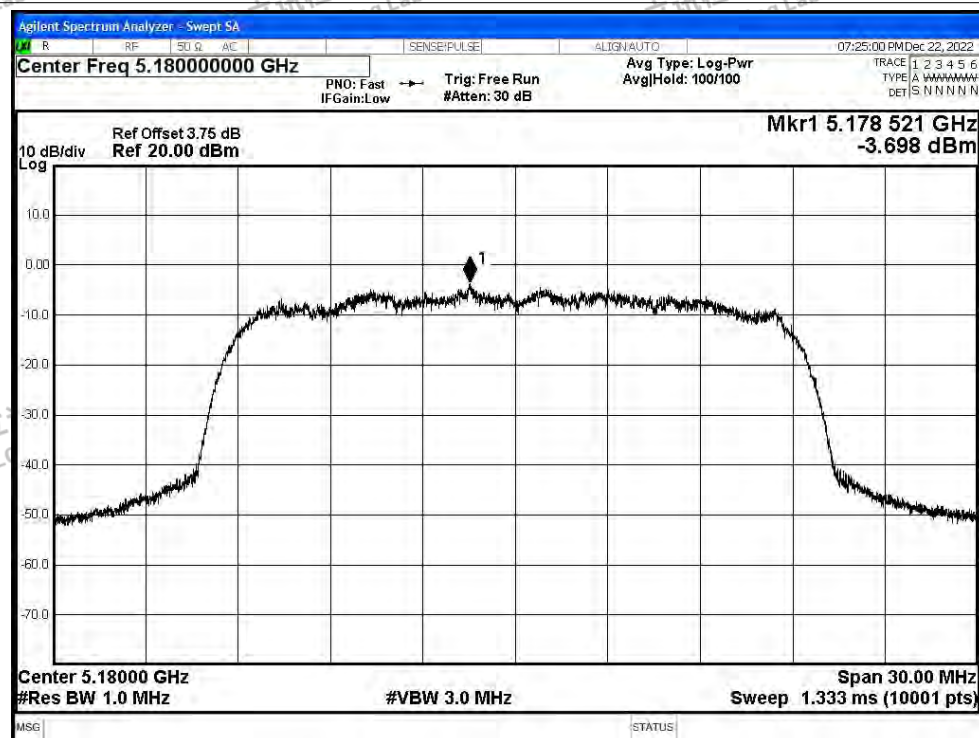


PSD NVNT n40 5230MHz Ant1

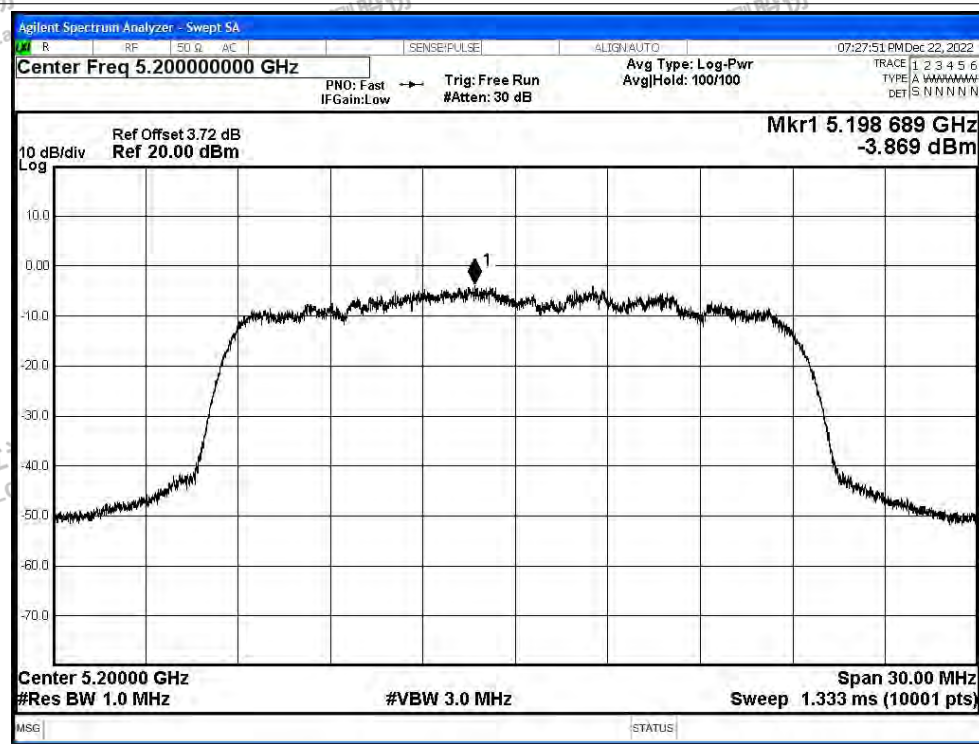




PSD NVNT ac20 5180MHz Ant1

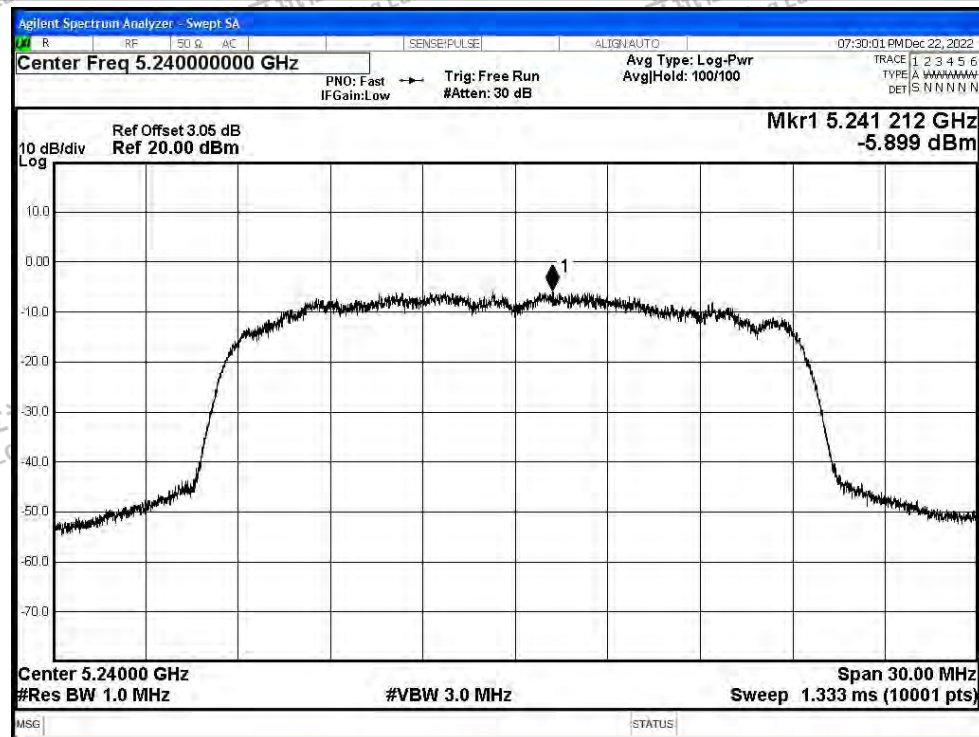


PSD NVNT ac20 5200MHz Ant1

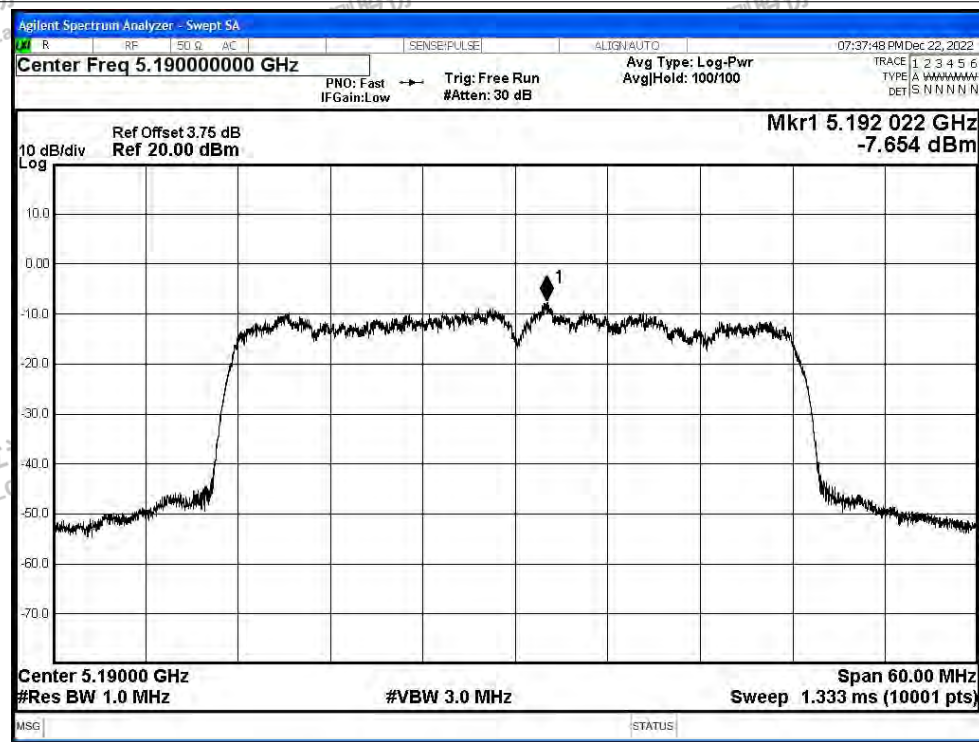




PSD NVNT ac20 5240MHz Ant1

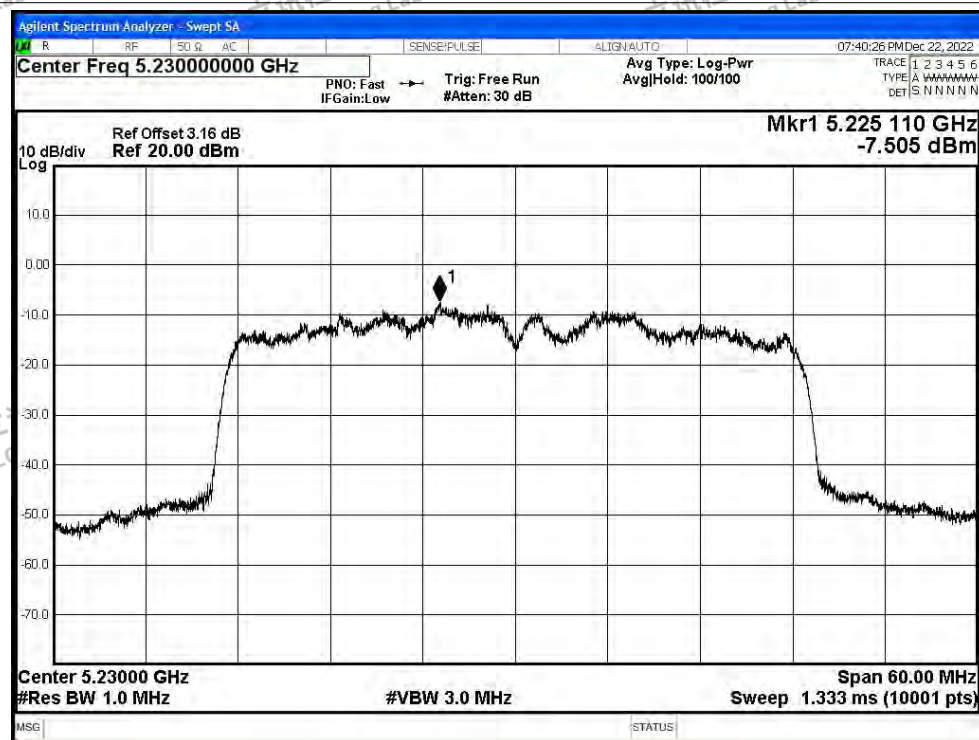


PSD NVNT ac40 5190MHz Ant1

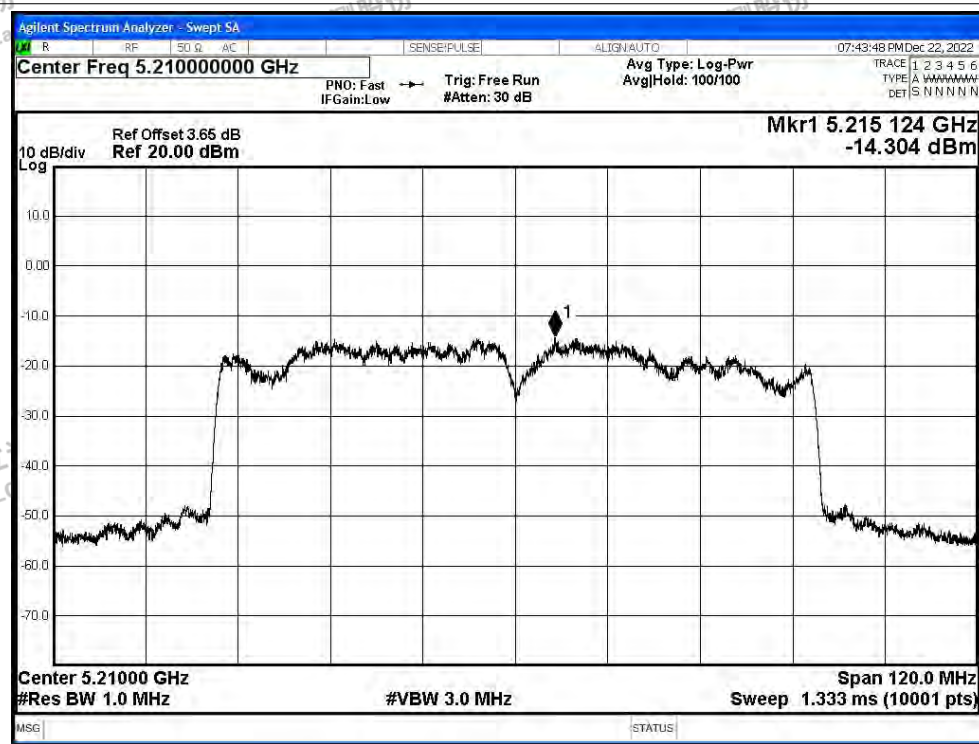




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1





C.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	-50.45	4.4	49.21	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.32	4.4	42.34	Average	54	Pass
NVNT	a	5180	Ant1	5144.7	-45.99	4.4	53.67	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.9	-54.71	4.4	44.95	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.5	4.4	52.16	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.76	4.4	44.90	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.94	4.4	50.72	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.23	4.4	42.43	Average	54	Pass
NVNT	a	5240	Ant1	5381.28	-47.03	4.4	52.63	Peak	68.2	Pass
NVNT	a	5240	Ant1	5430	-56.94	4.4	42.72	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.66	4.4	49.00	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.3	4.4	42.36	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.44	4.4	50.22	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.04	4.4	42.62	Average	54	Pass
NVNT	n20	5180	Ant1	4985.8	-45.55	4.4	54.11	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5147.5	-54.61	4.4	45.05	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-46.24	4.4	53.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-54.64	4.4	45.02	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.31	4.4	51.35	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.23	4.4	42.43	Average	54	Pass
NVNT	n20	5240	Ant1	5361.36	-47.1	4.4	52.56	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5371.44	-56.85	4.4	42.81	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.62	4.4	50.04	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.12	4.4	42.54	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.53	4.4	49.13	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-56.96	4.4	42.70	Average	54	Pass
NVNT	n40	5190	Ant1	5059.91	-45.33	4.4	54.33	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-54.38	4.4	45.28	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-47.92	4.4	51.74	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.38	4.4	45.28	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-50.29	4.4	49.37	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.8	4.4	42.86	Average	54	Pass
NVNT	n40	5230	Ant1	5376.84	-46.99	4.4	52.67	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5401.41	-56.34	4.4	43.32	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.17	4.4	50.49	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.94	4.4	42.72	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.73	4.4	50.93	Peak	68.2	Pass



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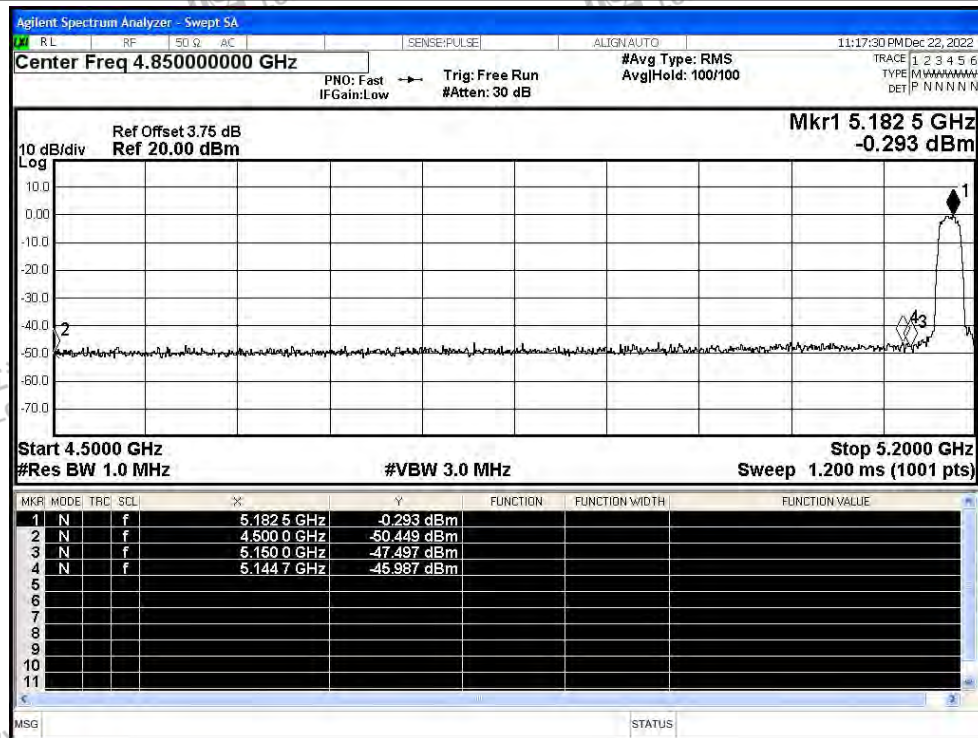
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NVNT	ac20	5180	Ant1	5094.3	-44.34	4.4	55.32	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-54.68	4.4	44.98	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-47.85	4.4	51.81	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.63	4.4	45.03	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.4	4.4	49.26	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.22	4.4	42.44	Average	54	Pass
NVNT	ac20	5240	Ant1	5443.2	-46.76	4.4	52.90	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5380.32	-56.91	4.4	42.75	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.49	4.4	49.17	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.08	4.4	42.58	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.9	4.4	48.76	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.05	4.4	42.61	Average	54	Pass
NVNT	ac40	5190	Ant1	5129.99	-44.01	4.4	55.65	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5138.02	-54.31	4.4	45.35	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-46.17	4.4	53.49	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.43	4.4	45.23	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-51.94	4.4	47.72	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.56	4.4	43.10	Average	54	Pass
NVNT	ac40	5230	Ant1	5355.78	-47.69	4.4	51.97	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5418.96	-56.44	4.4	43.22	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.97	4.4	49.69	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.13	4.4	42.53	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-45.52	4.4	54.14	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.58	4.4	44.08	Average	54	Pass
NVNT	ac80	5210	Ant1	5350.11	-45.52	4.4	54.14	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5402.91	-55.13	4.4	44.53	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.81	4.4	48.85	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-55.85	4.4	43.81	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-50.94	4.4	48.72	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-56.67	4.4	42.99	Average	54	Pass
NVNT	ac80	5210	Ant1	5132.79	-45.56	4.4	54.10	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-52.87	4.4	46.79	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-47.06	4.4	52.60	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-52.88	4.4	46.78	Average	54	Pass



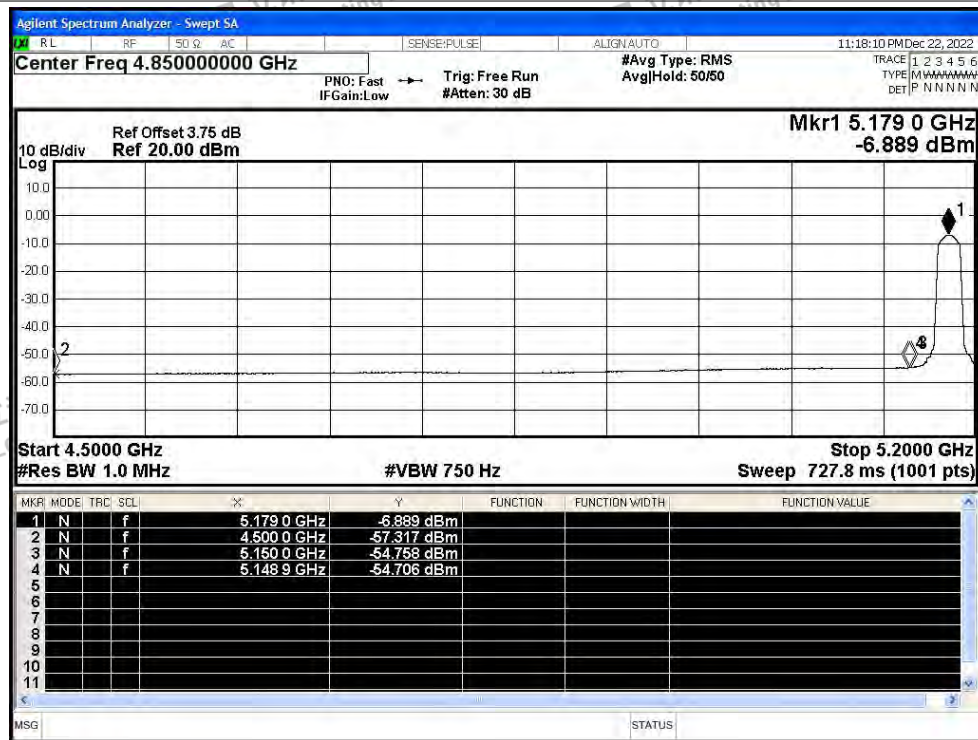


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

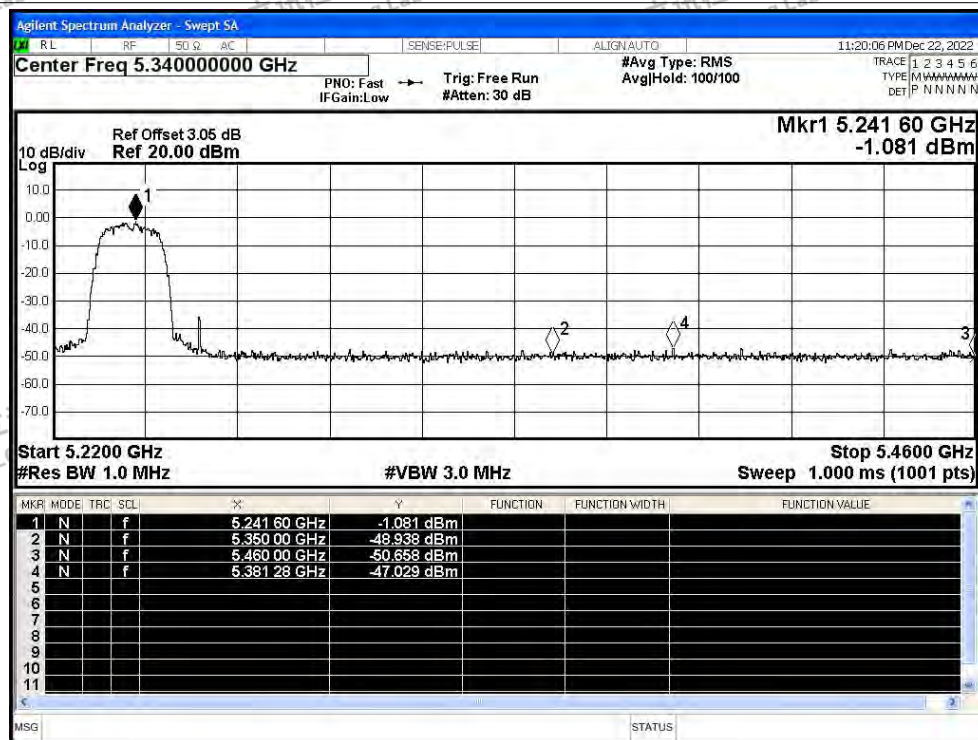


Restrict Band NVNT a 5180MHz Ant1 Average

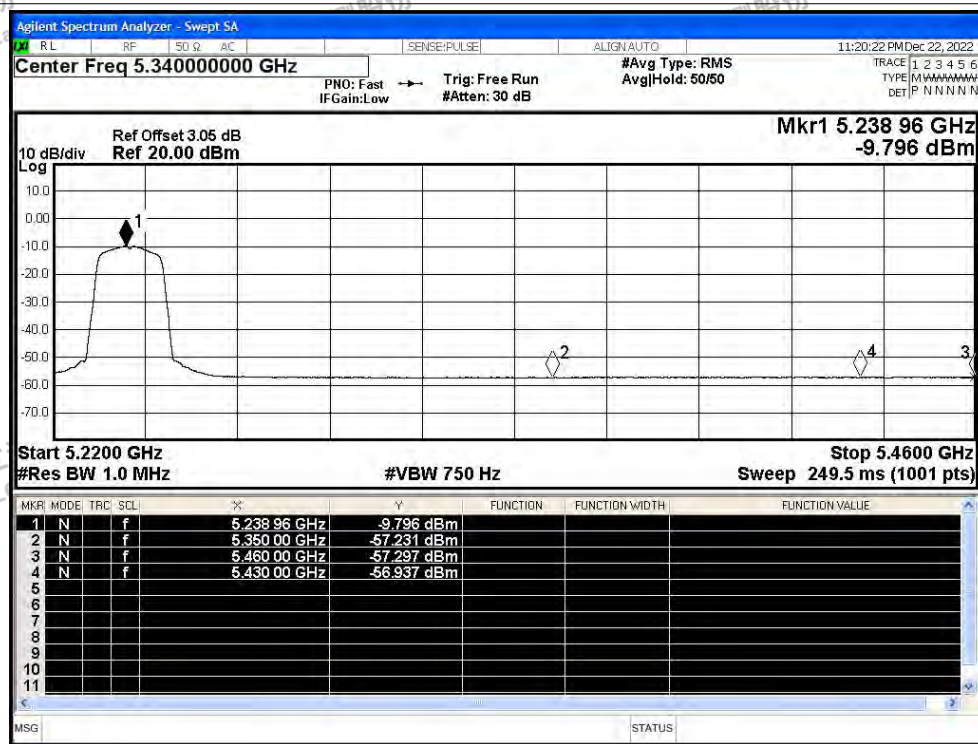




Restrict Band NVNT a 5240MHz Ant1 Peak

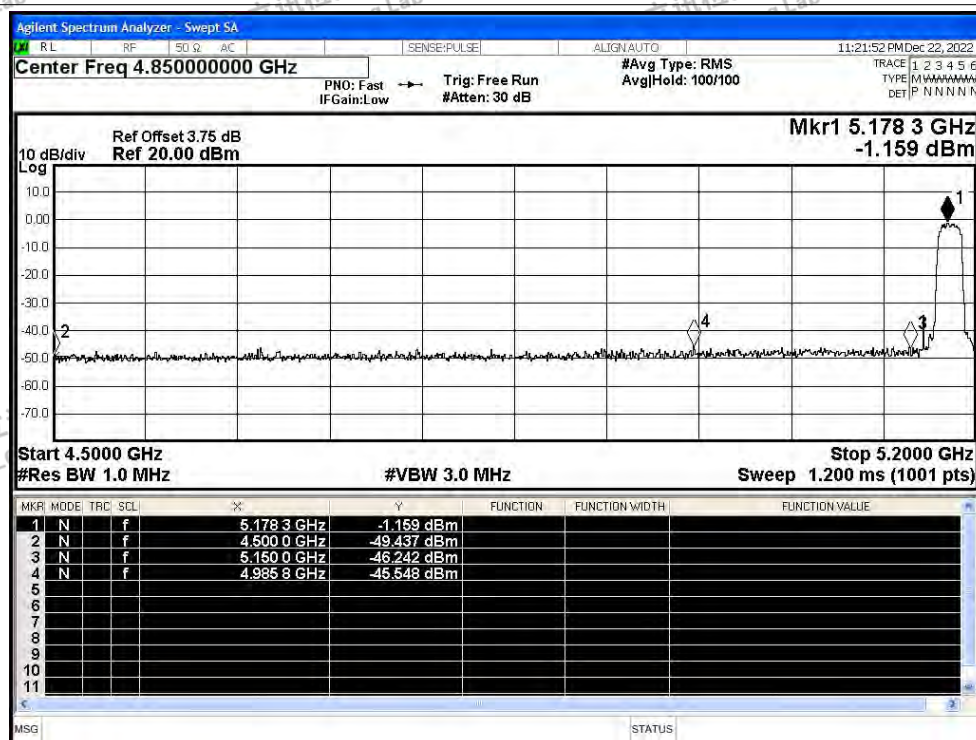


Restrict Band NVNT a 5240MHz Ant1 Average

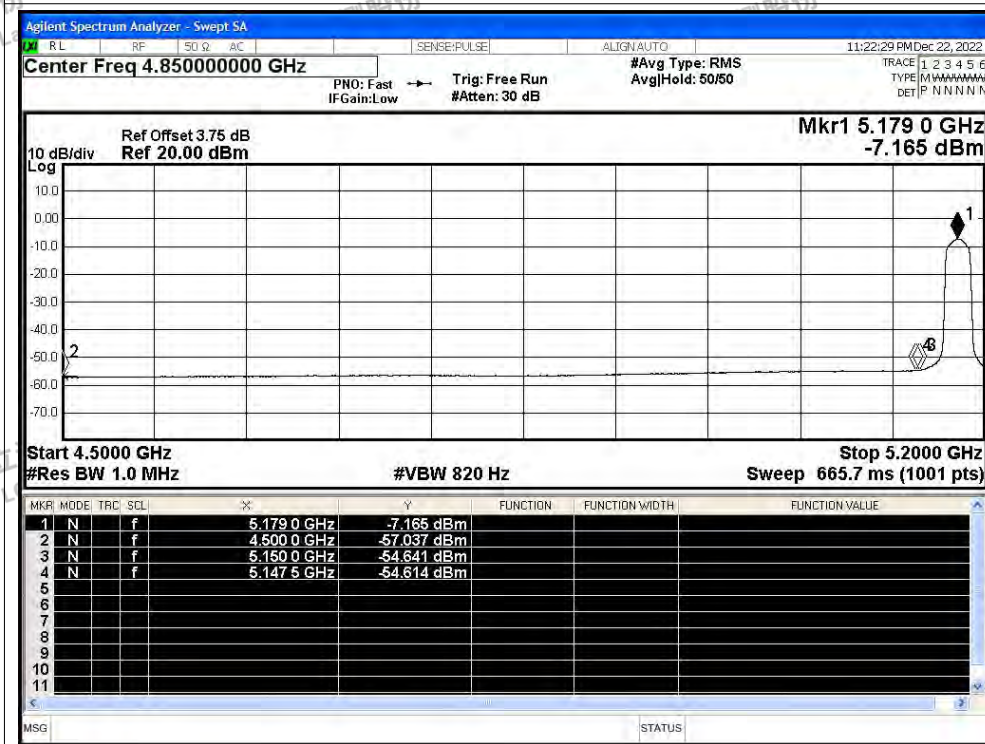




Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



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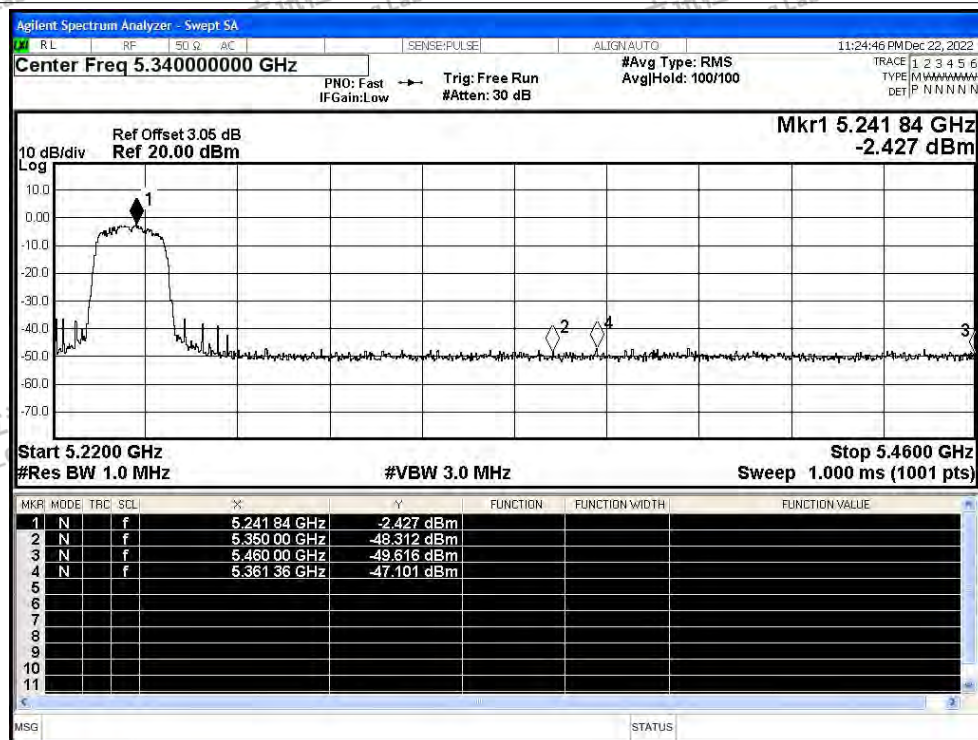
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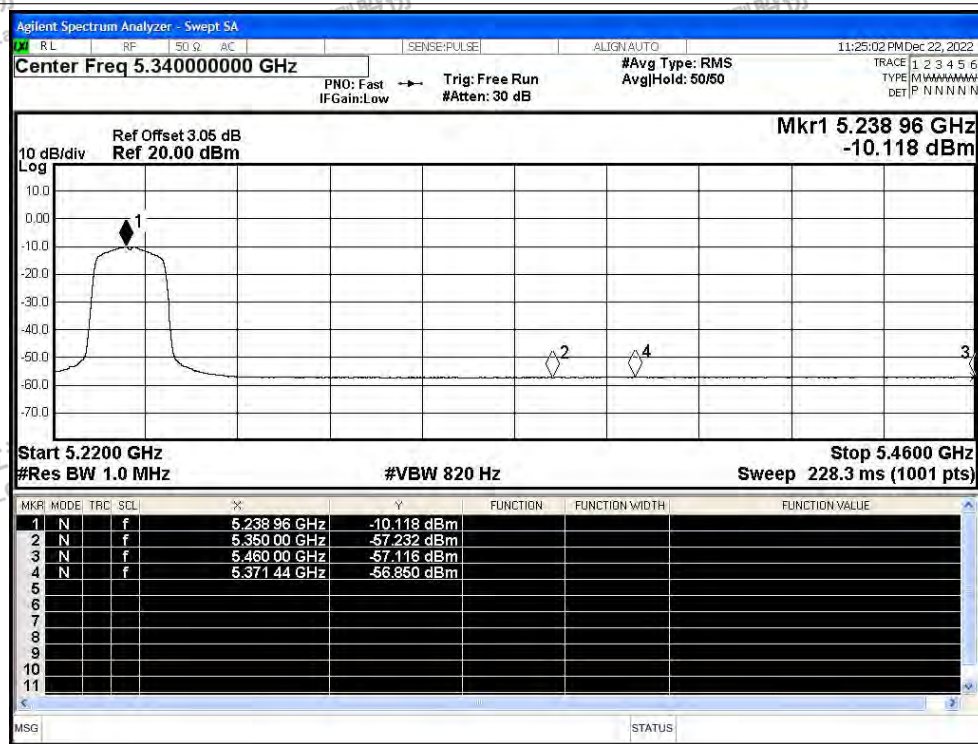
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Restrict Band NVNT n20 5240MHz Ant1 Peak

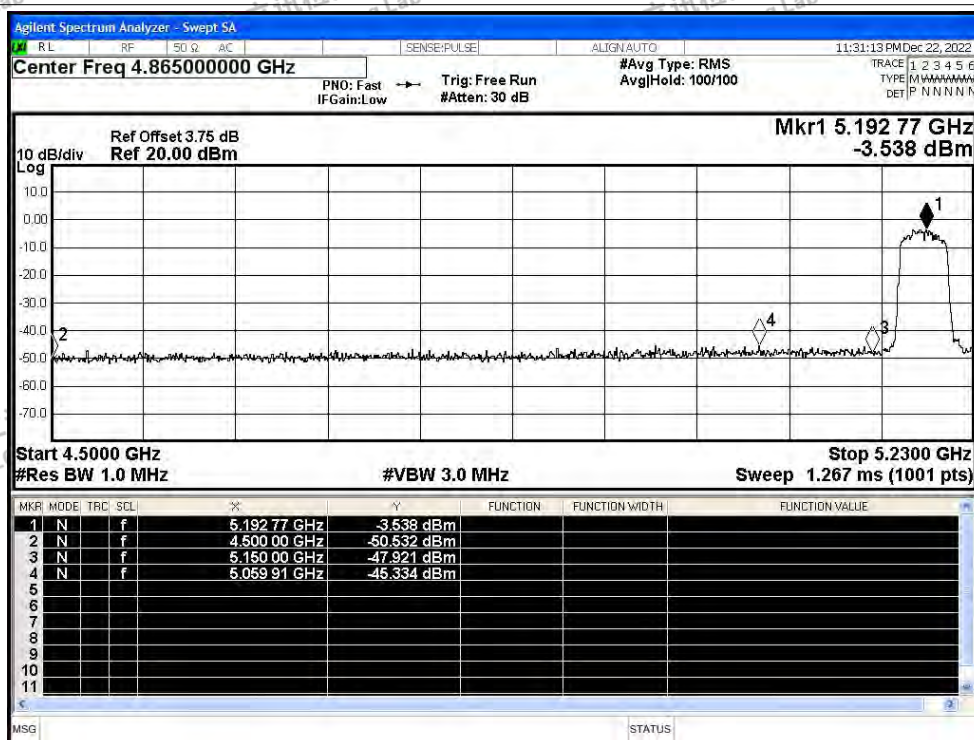


Restrict Band NVNT n20 5240MHz Ant1 Average

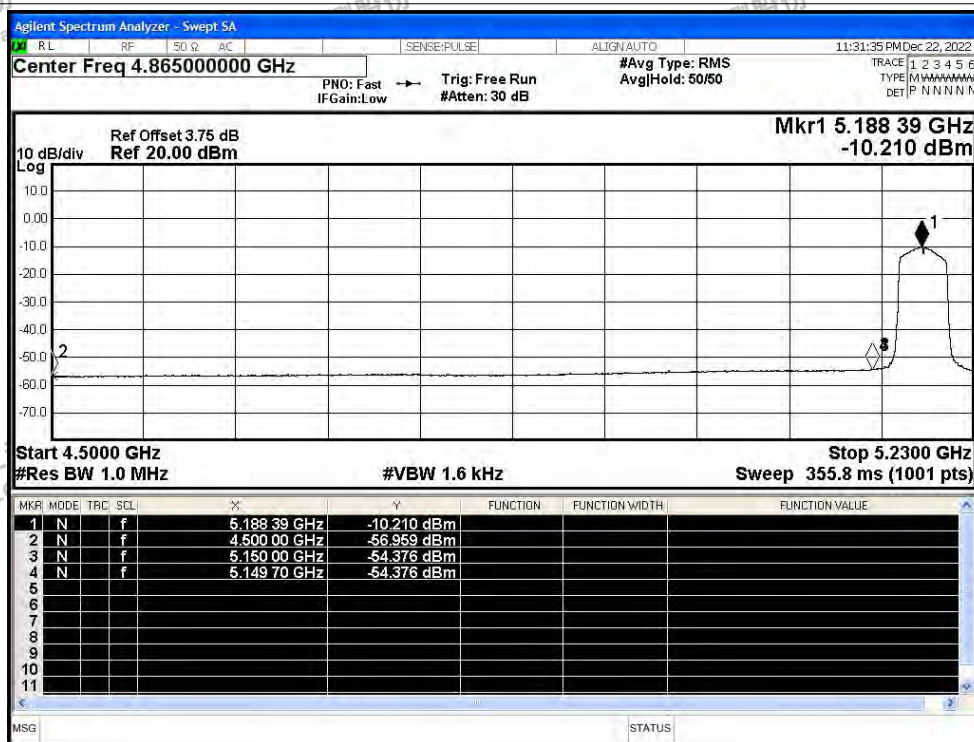




Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

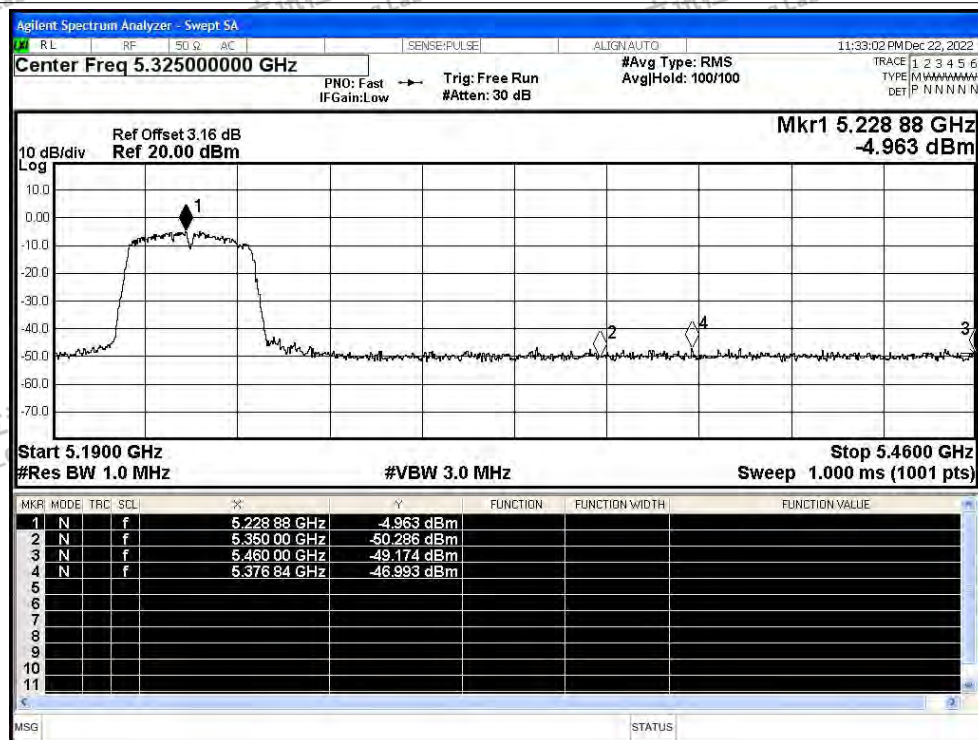
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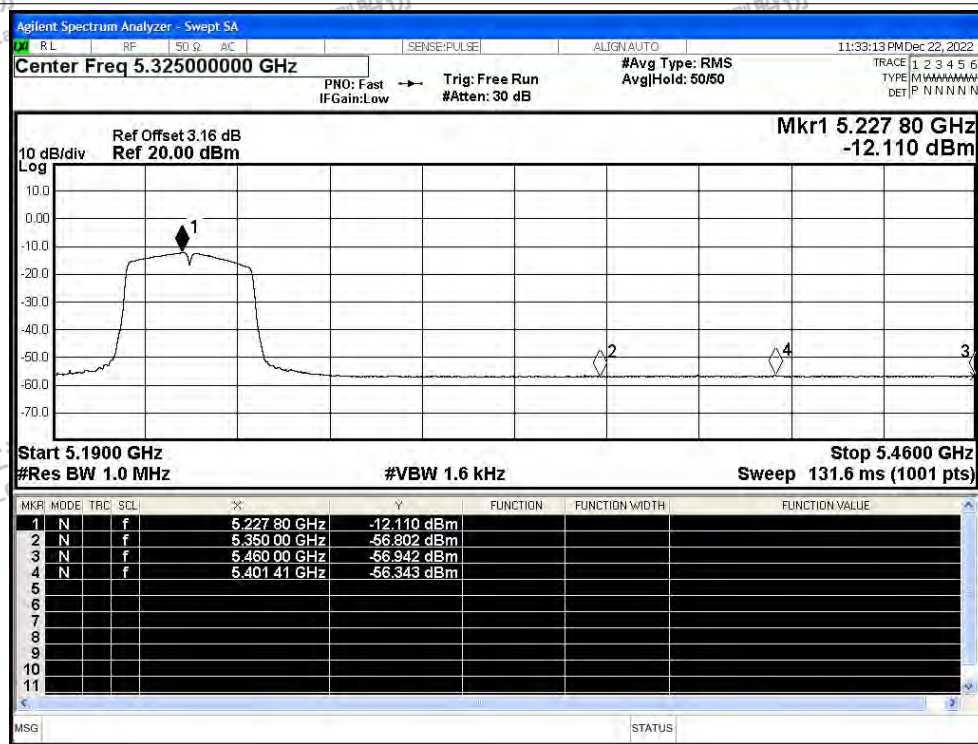
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak

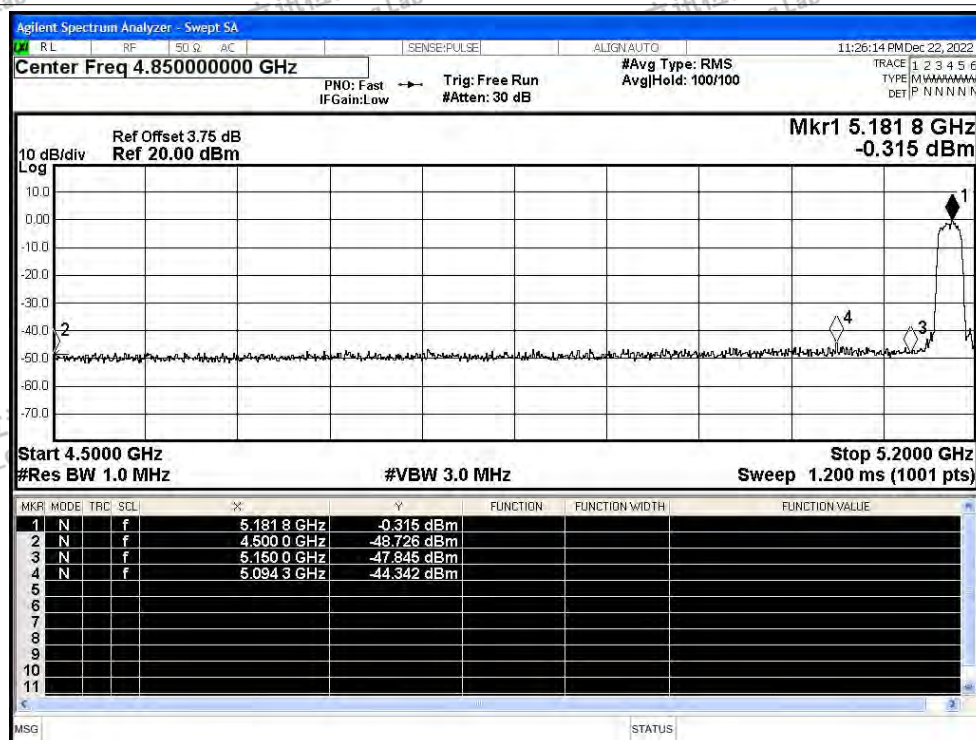


Restrict Band NVNT n40 5230MHz Ant1 Average

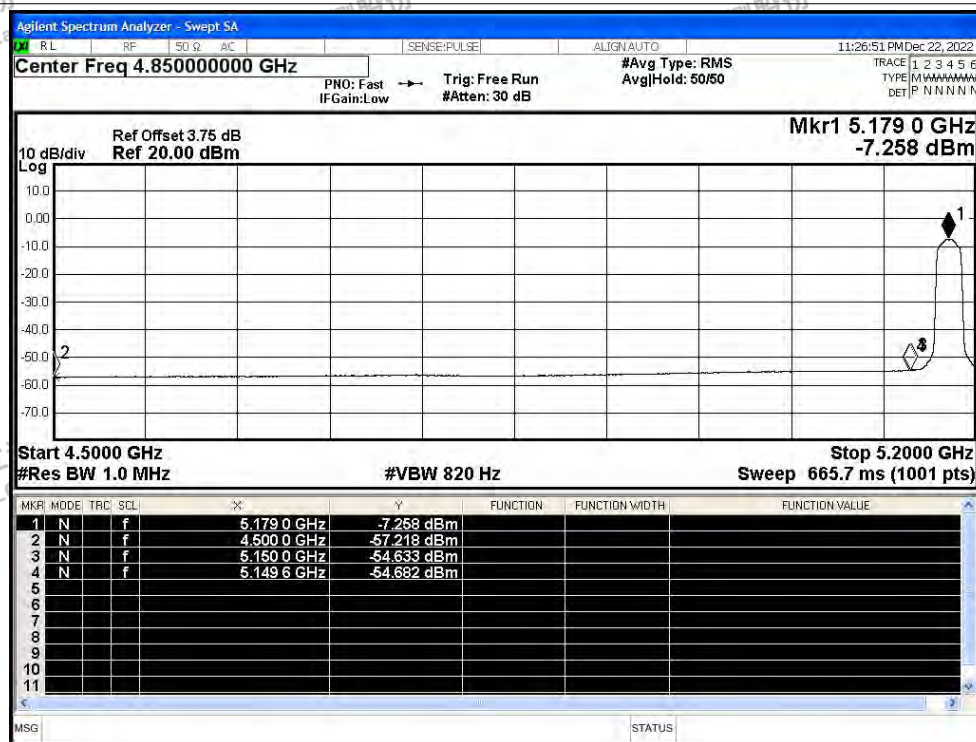




Restrict Band NVNT ac20 5180MHz Ant1 Peak

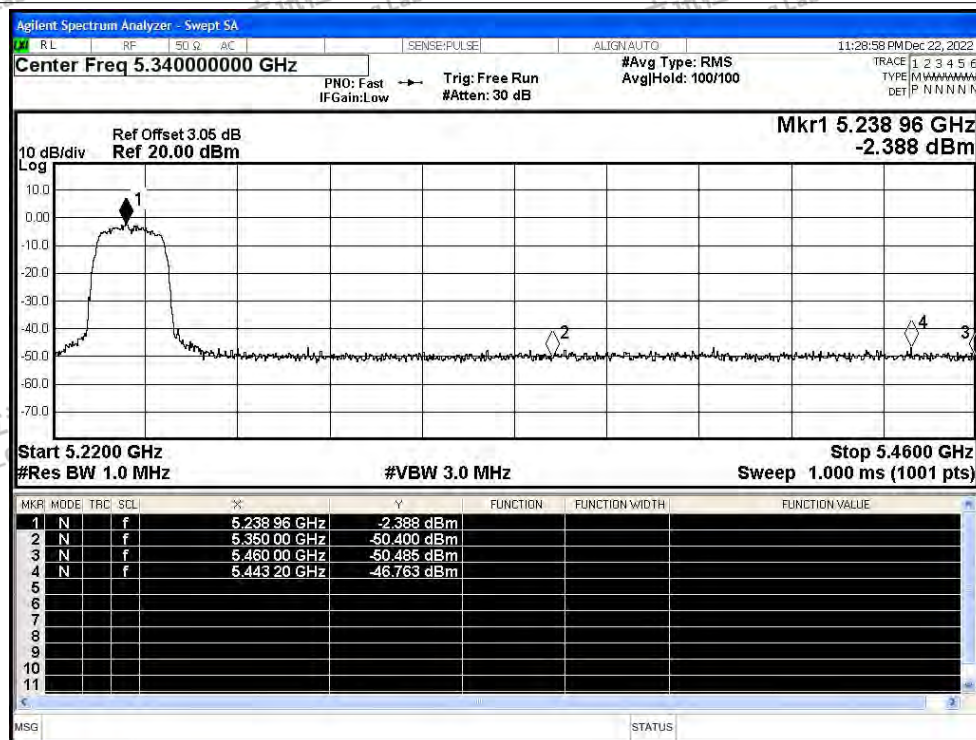


Restrict Band NVNT ac20 5180MHz Ant1 Average

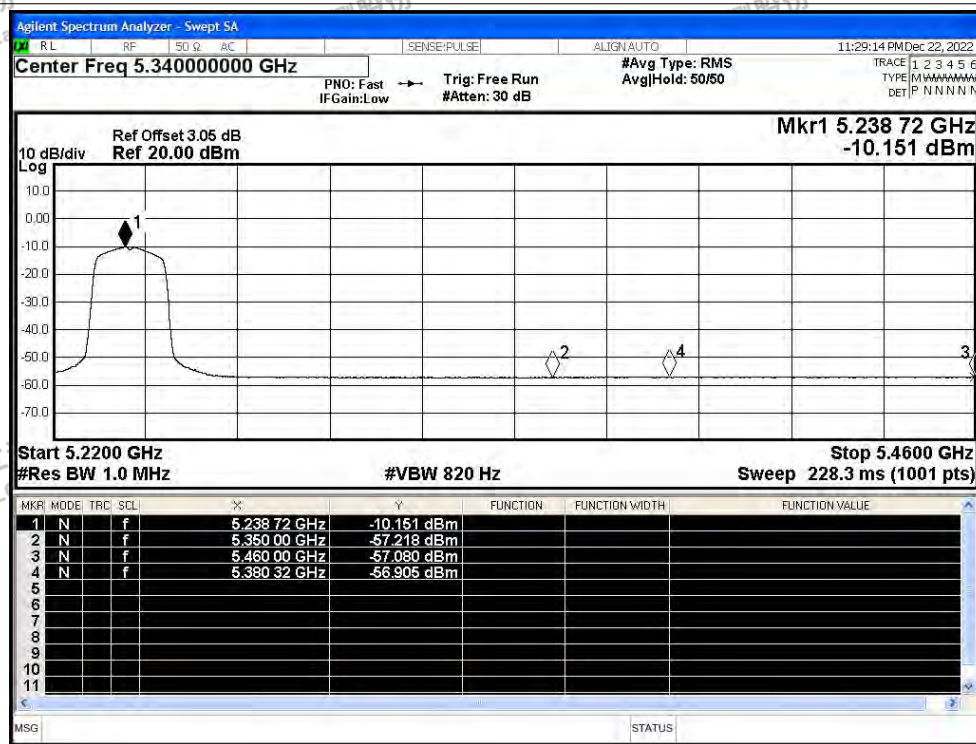




Restrict Band NVNT ac20 5240MHz Ant1 Peak

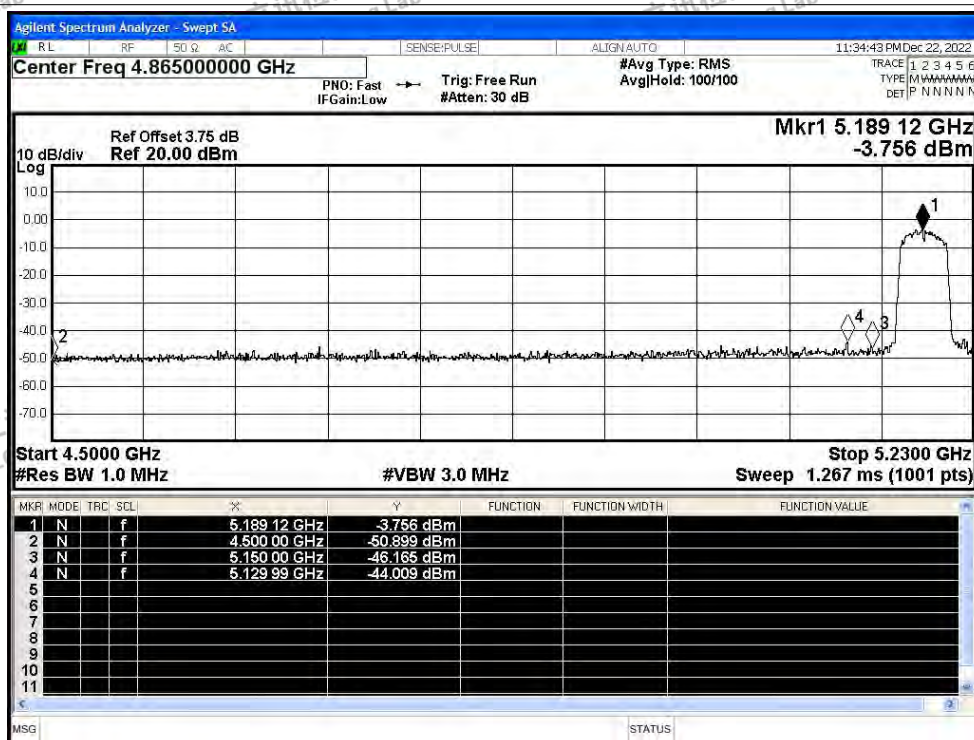


Restrict Band NVNT ac20 5240MHz Ant1 Average

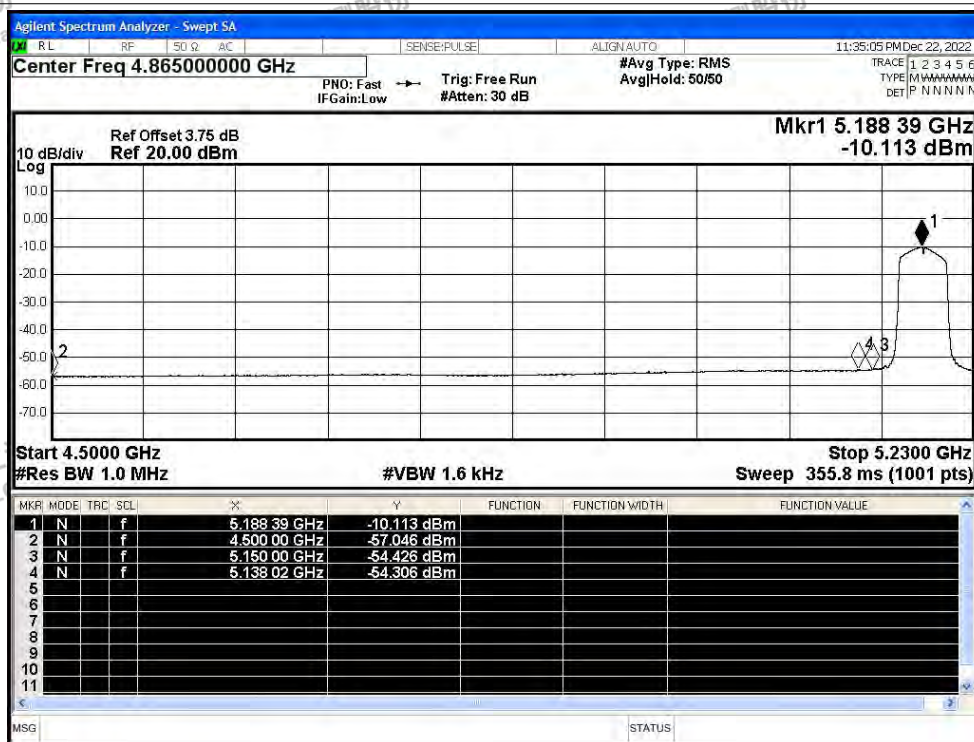




Restrict Band NVNT ac40 5190MHz Ant1 Peak

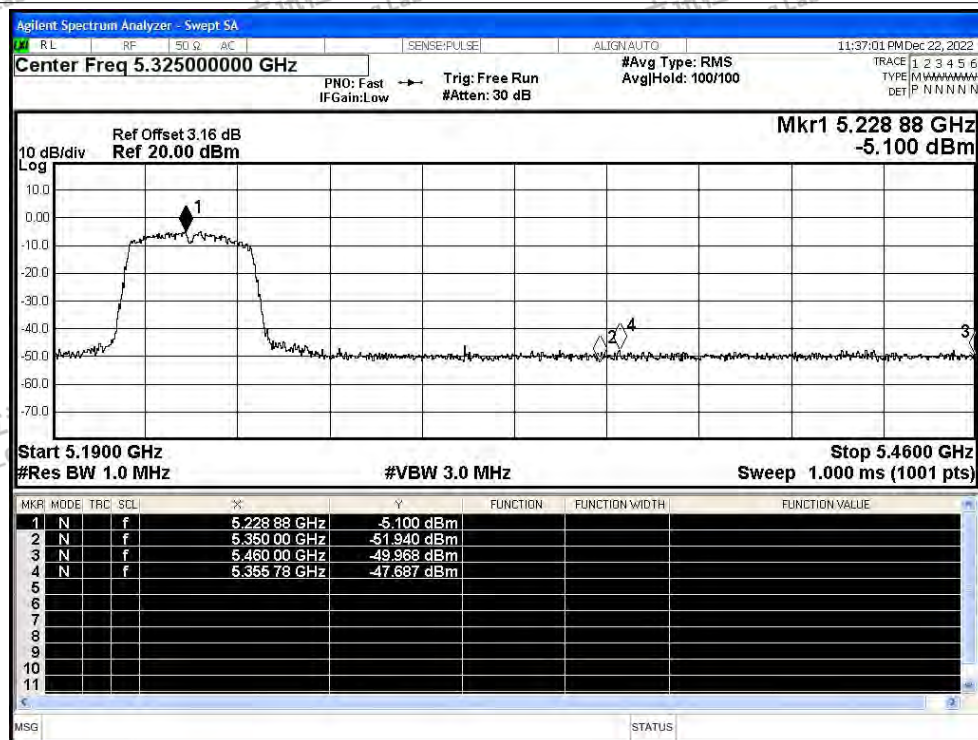


Restrict Band NVNT ac40 5190MHz Ant1 Average

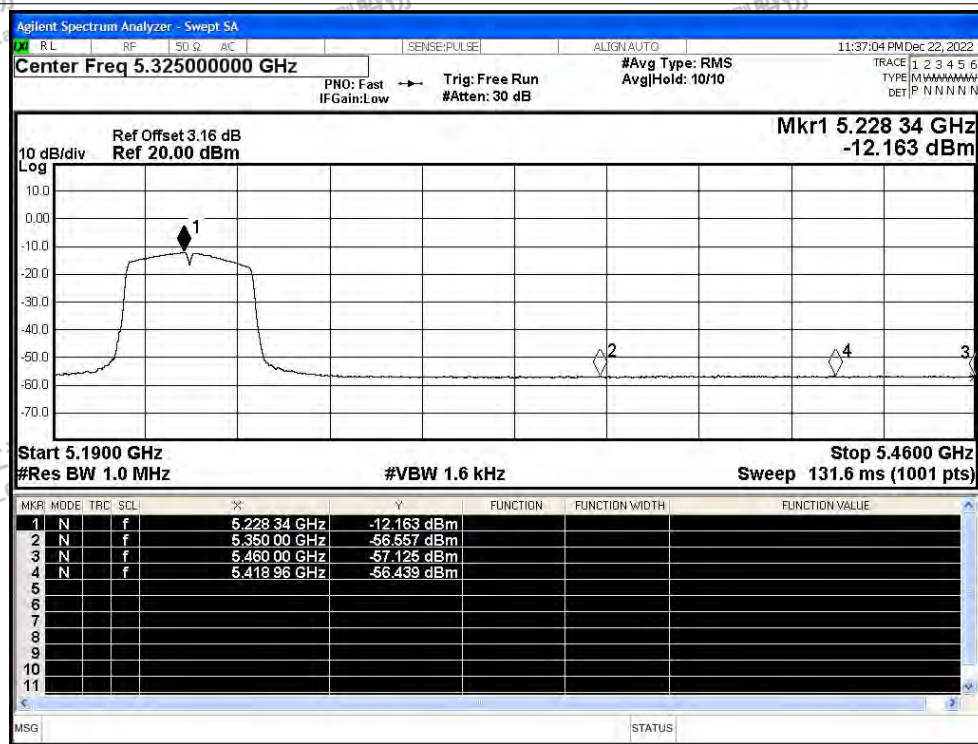




Restrict Band NVNT ac40 5230MHz Ant1 Peak

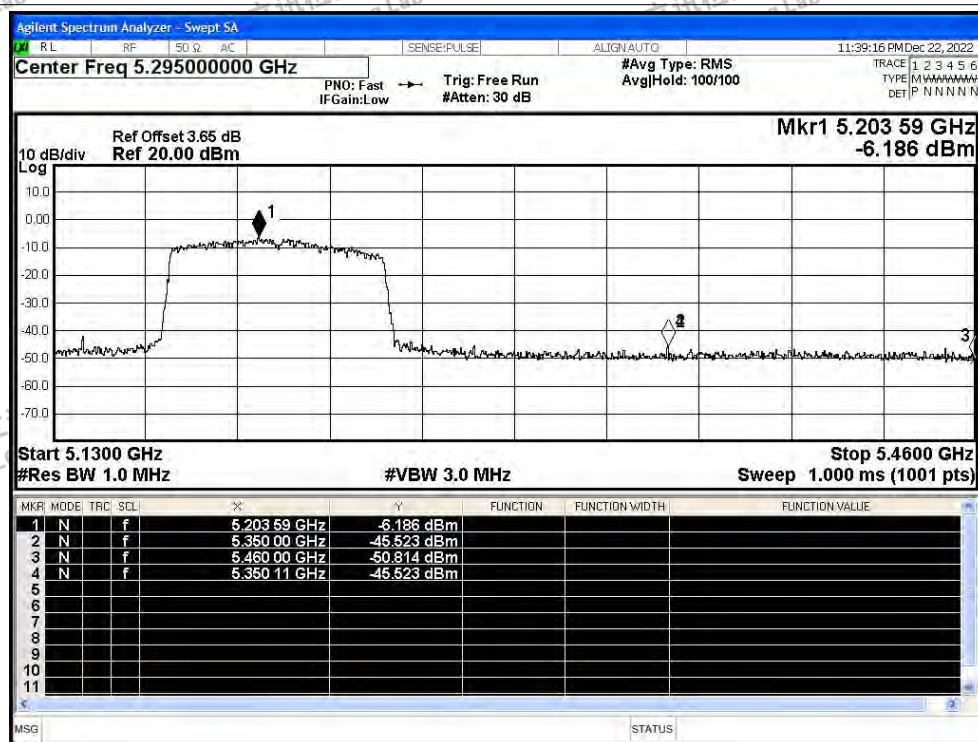


Restrict Band NVNT ac40 5230MHz Ant1 Average

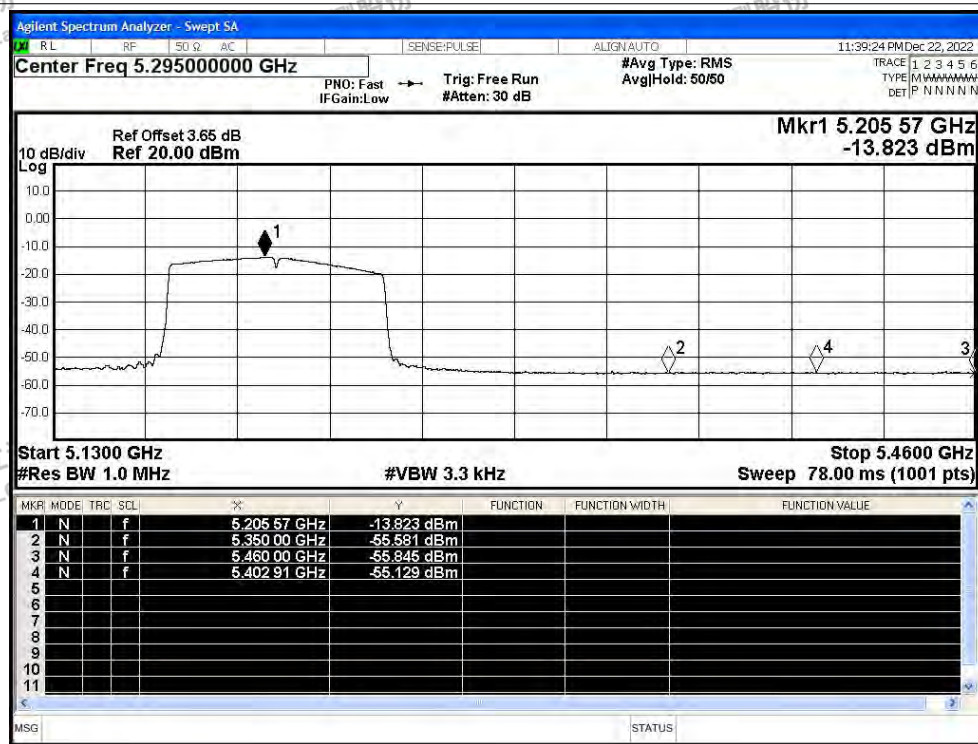




Restrict Band NVNT ac80 5210MHz Ant1 Peak

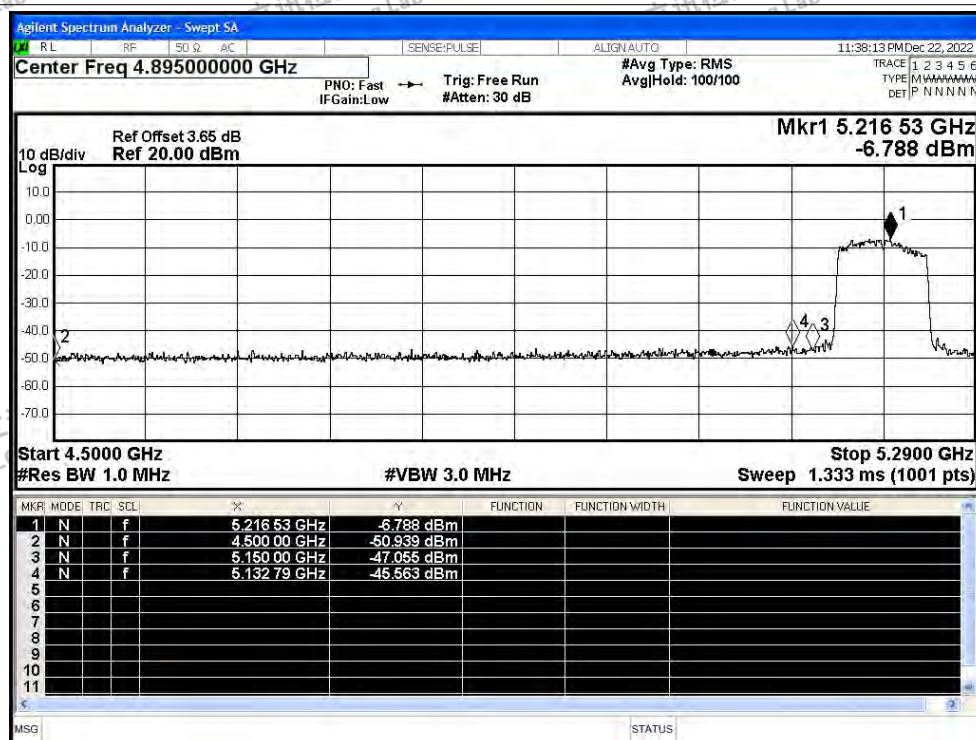


Restrict Band NVNT ac80 5210MHz Ant1 Average

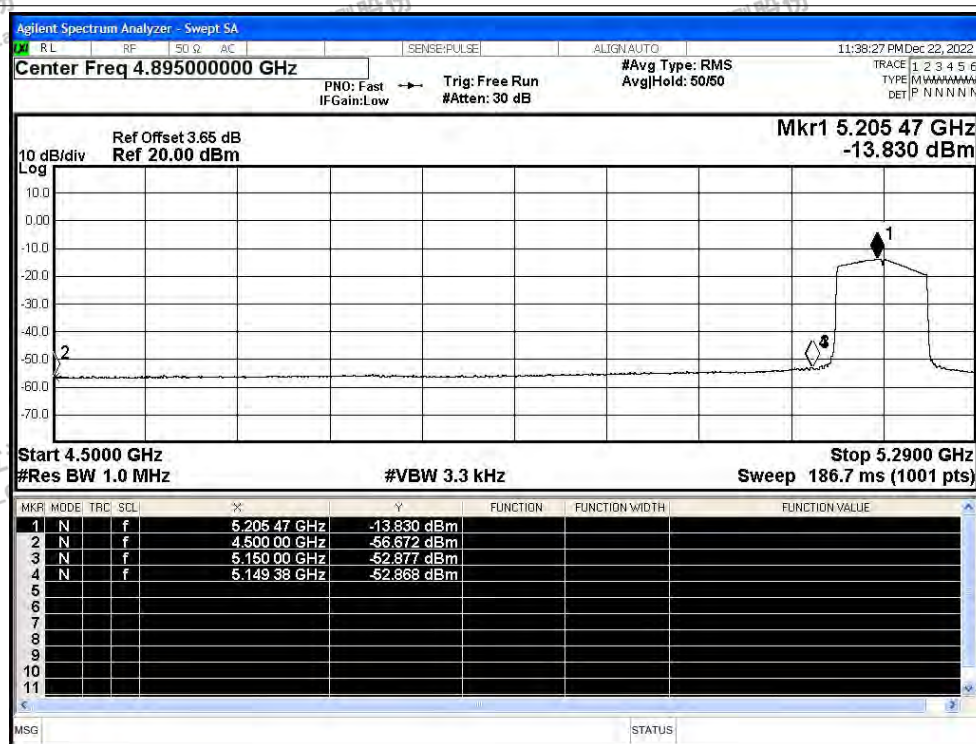




Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average





C.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-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

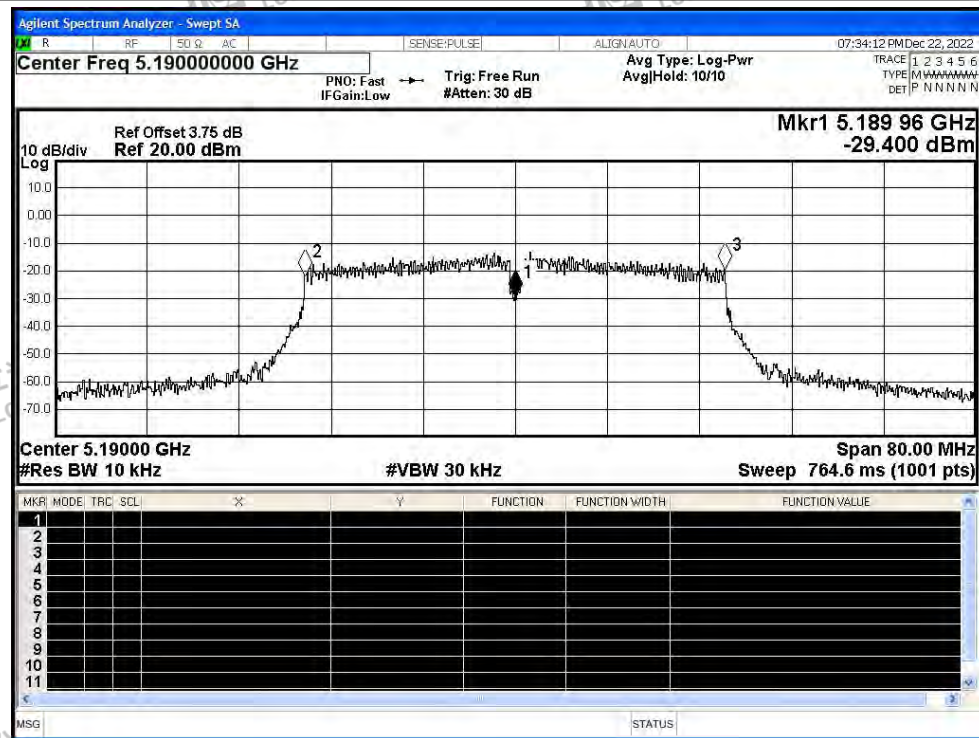


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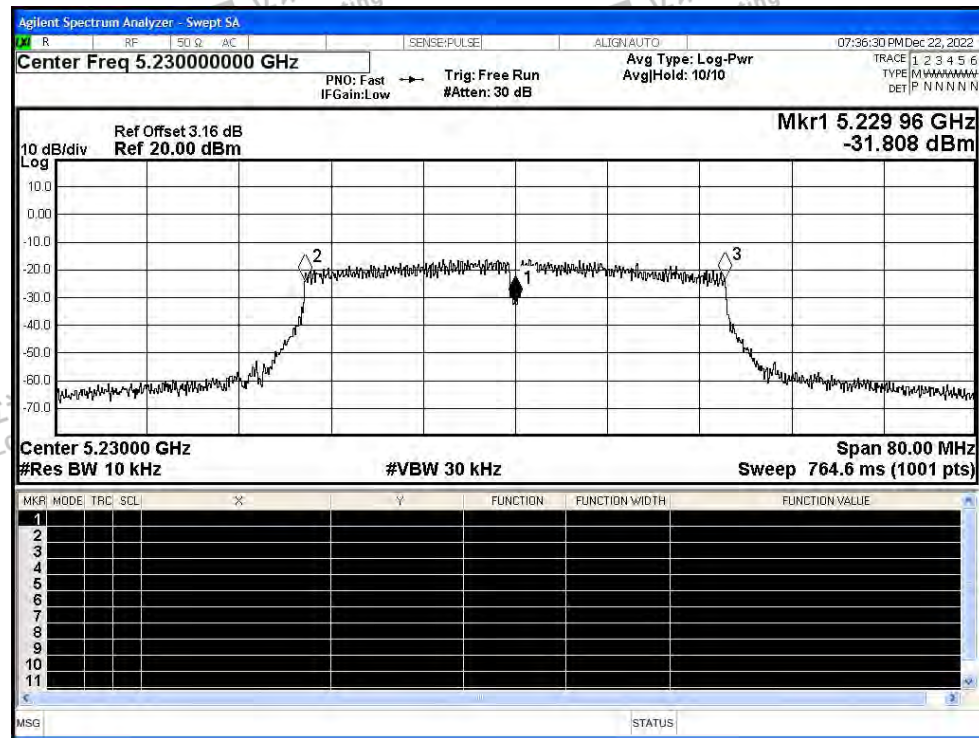


Test Graphs

Freq: Stability NVNT n40 5190MHz Ant1



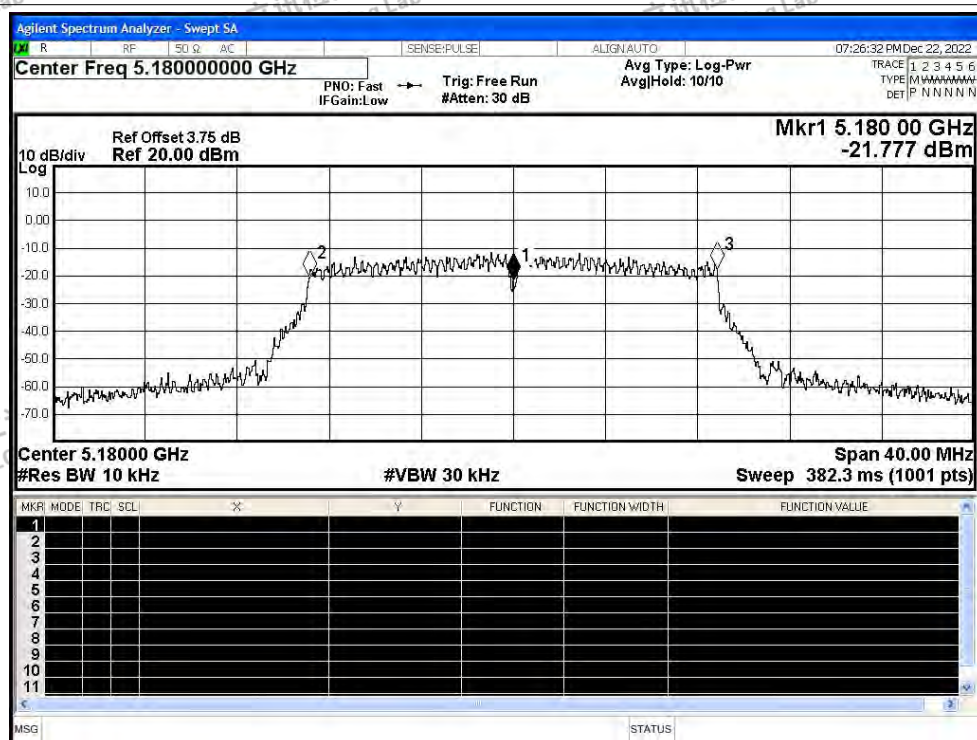
Freq: Stability NVNT n40 5230MHz Ant1



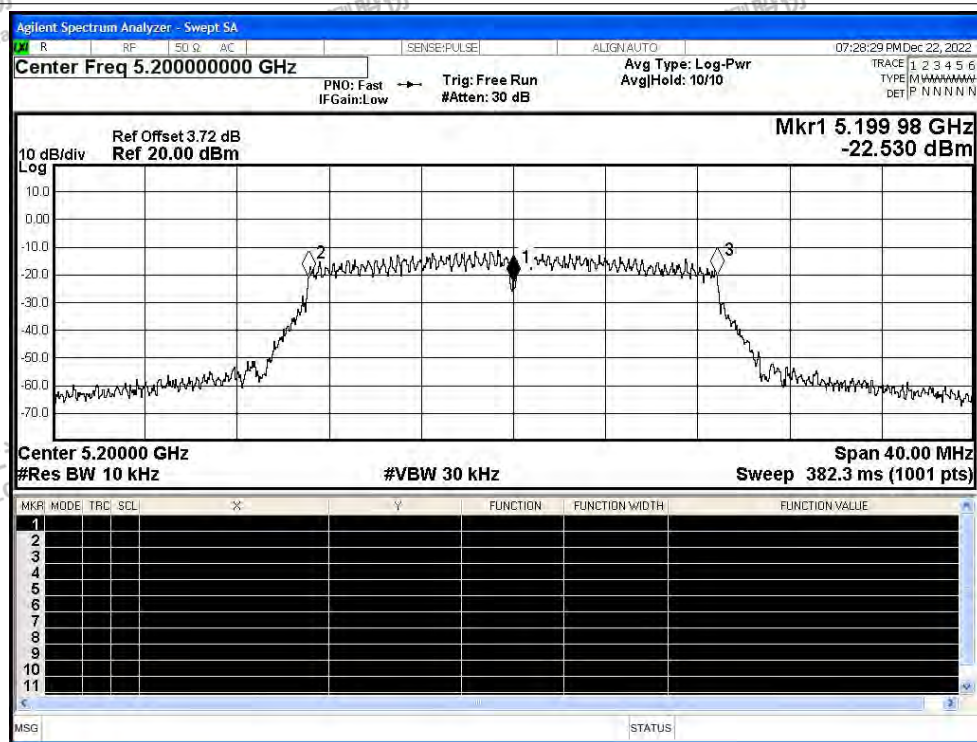
Shenzhen LCS Compliance Testing Laboratory Ltd.
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Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

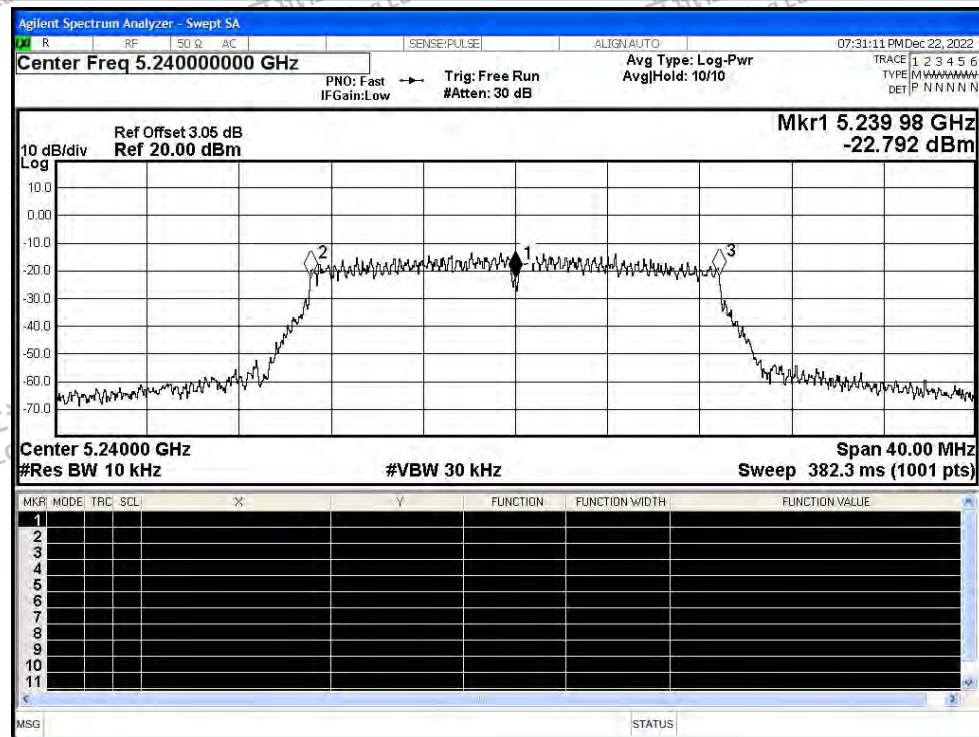
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

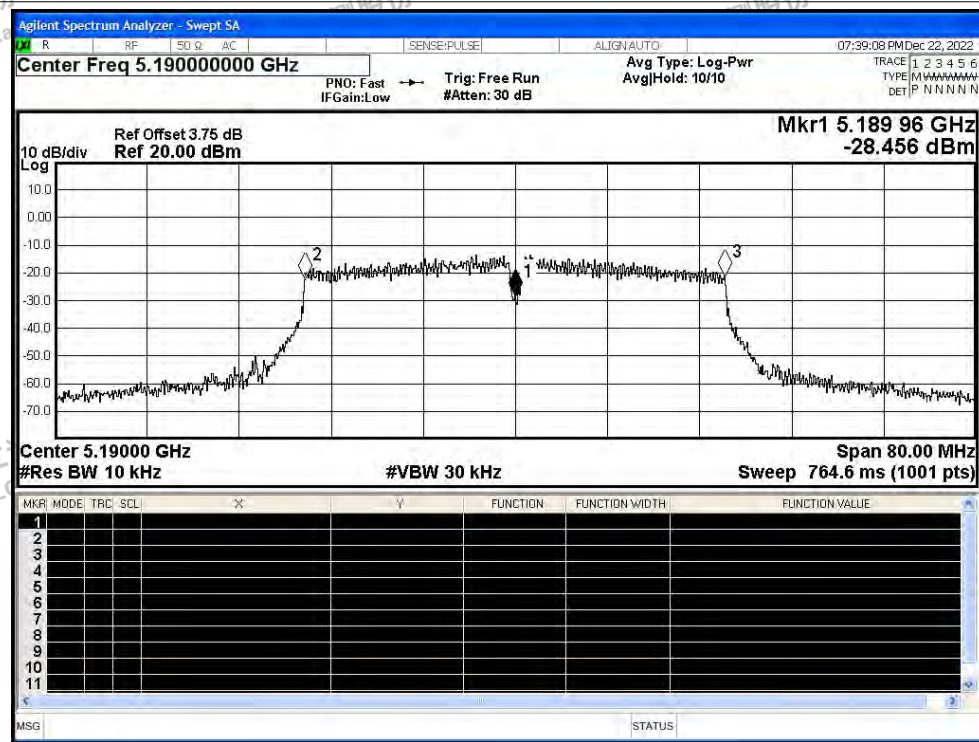
Scan code to check authenticity



Freq. Stability NVNT ac20 5240MHz Ant1



Freq. Stability NVNT ac40 5190MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

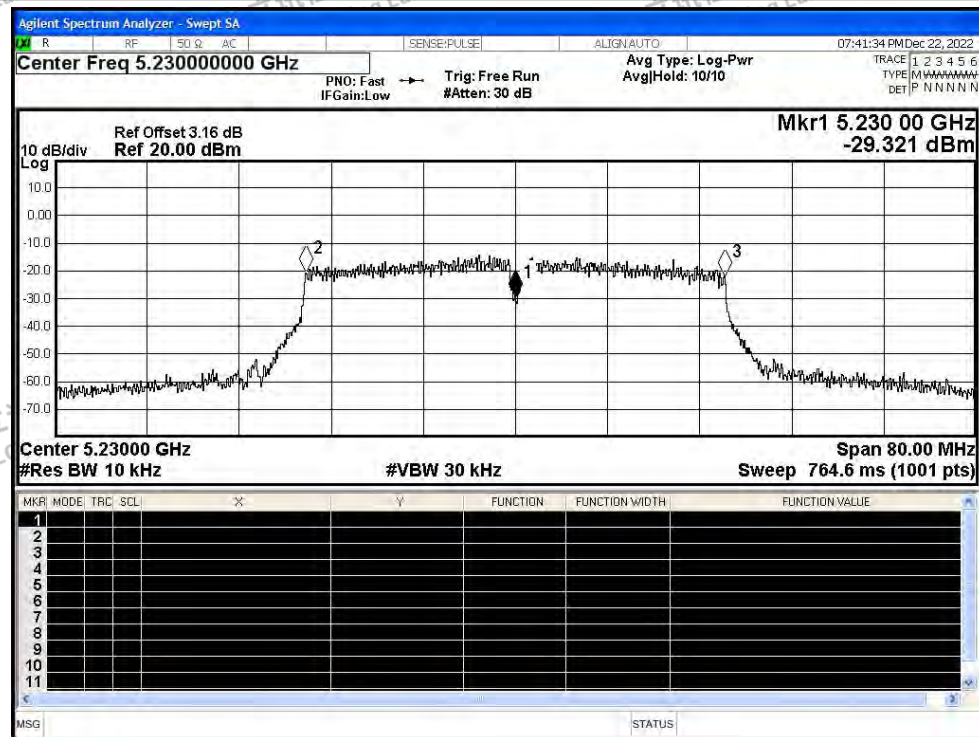
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

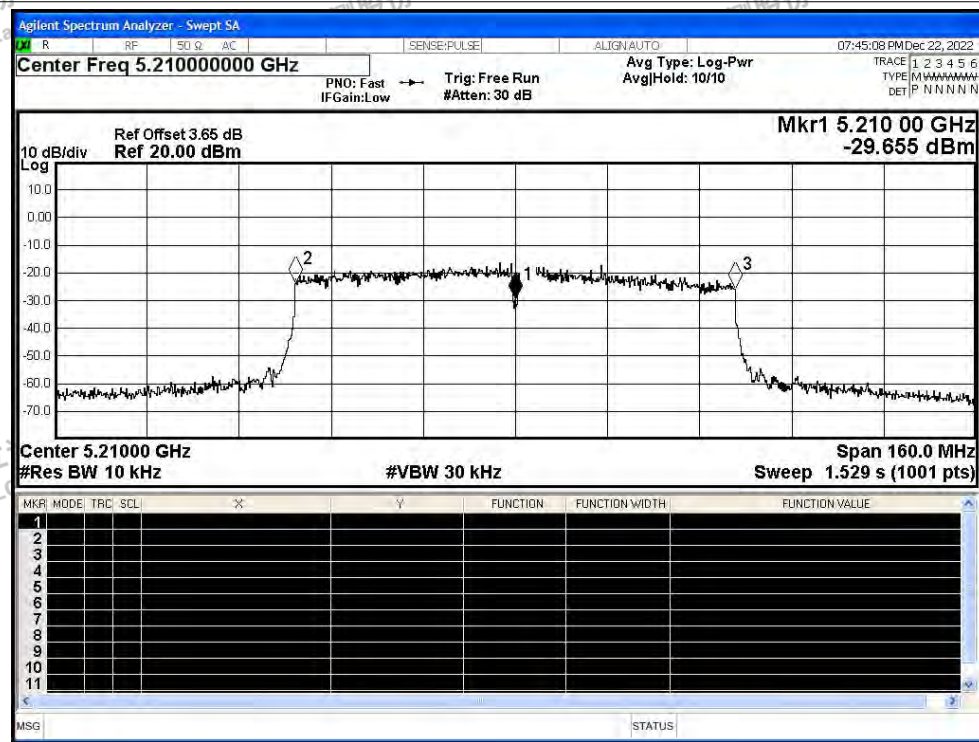
Scan code to check authenticity



Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1



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C.6 Duty Cycle

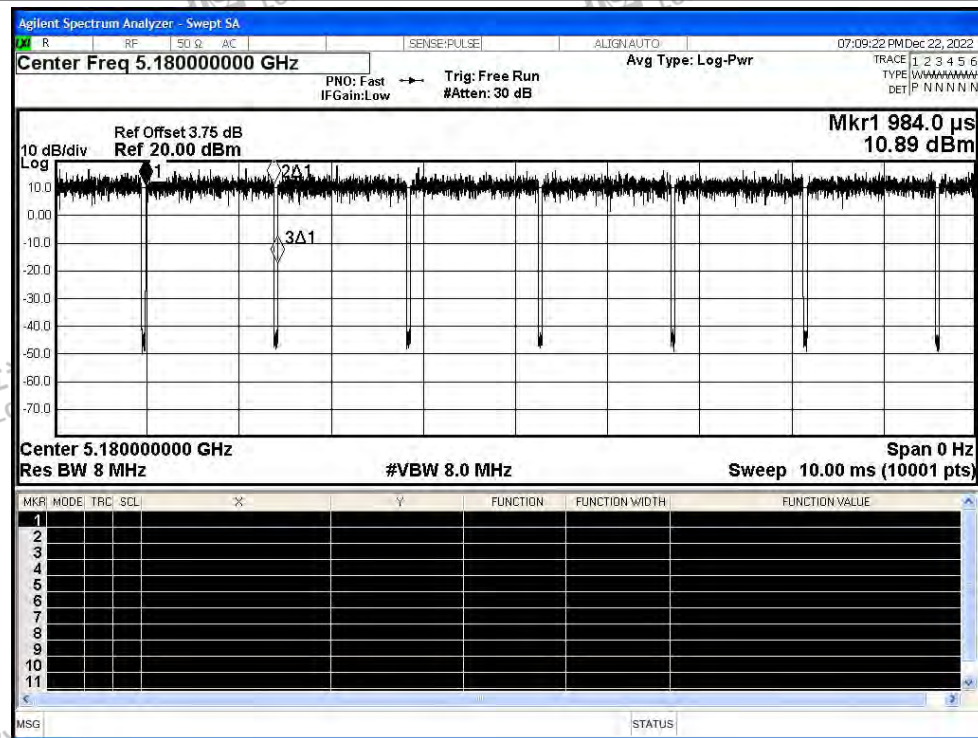
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.94	0.13	0.72
NVNT	a	5200	Ant1	96.87	0.14	0.72
NVNT	a	5240	Ant1	96.94	0.13	0.72
NVNT	n20	5180	Ant1	96.62	0.15	0.78
NVNT	n20	5200	Ant1	96.62	0.15	0.78
NVNT	n20	5240	Ant1	96.7	0.15	0.78
NVNT	n40	5190	Ant1	93.68	0.28	1.57
NVNT	n40	5230	Ant1	93.68	0.28	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	96.68	0.15	0.76
NVNT	ac40	5190	Ant1	93.82	0.28	1.53
NVNT	ac40	5230	Ant1	93.68	0.28	1.53
NVNT	ac80	5210	Ant1	88.04	0.55	3.09



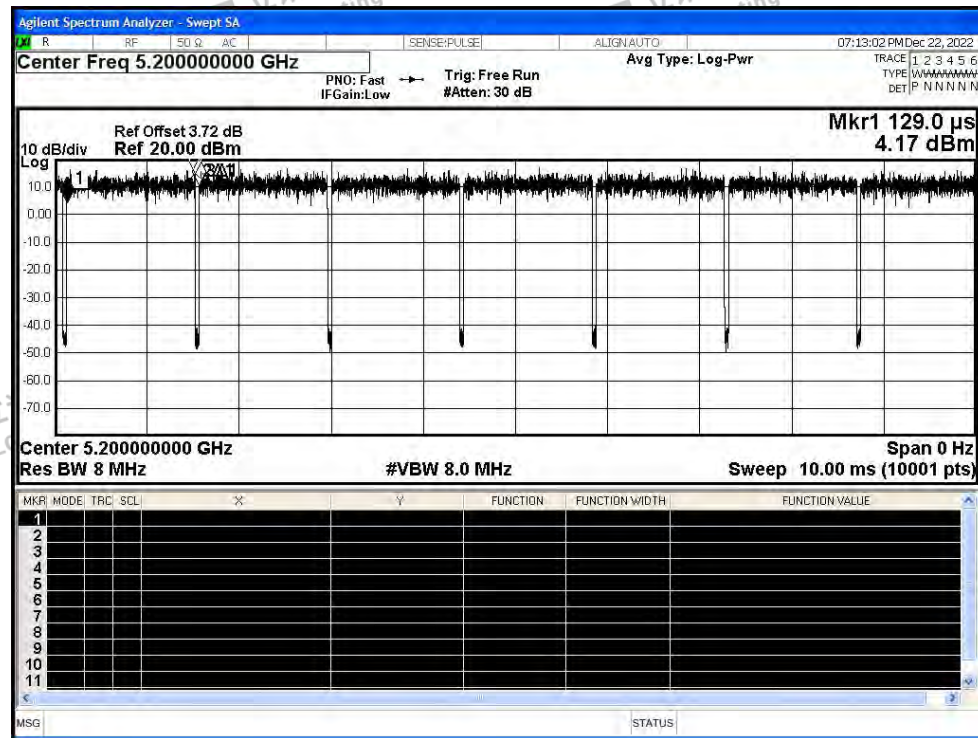


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

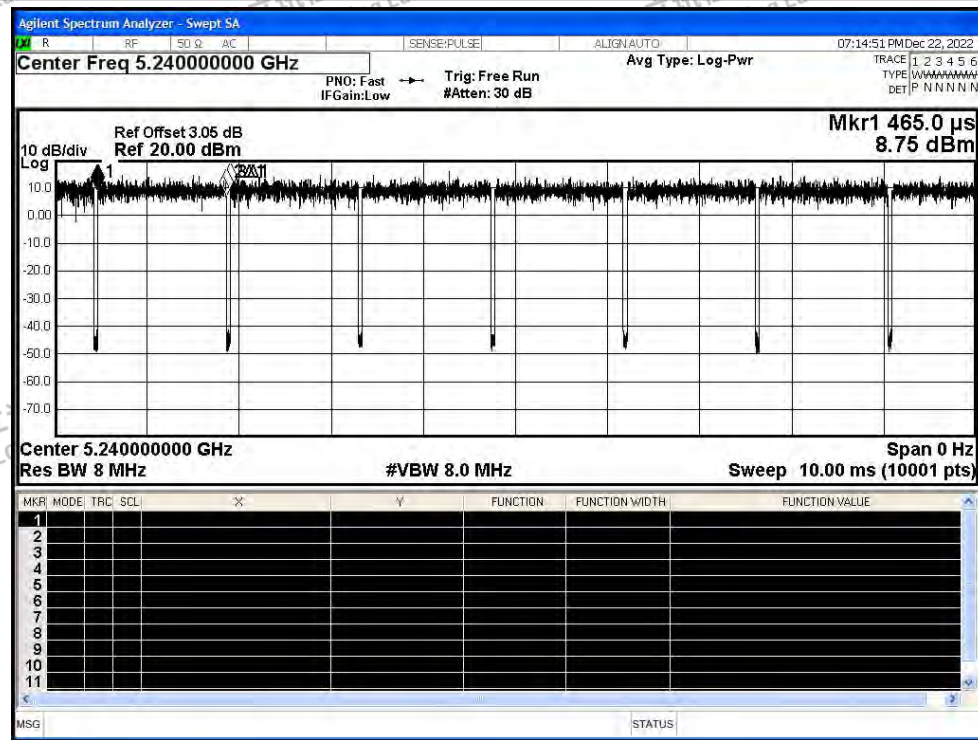


Duty Cycle NVNT a 5200MHz Ant1

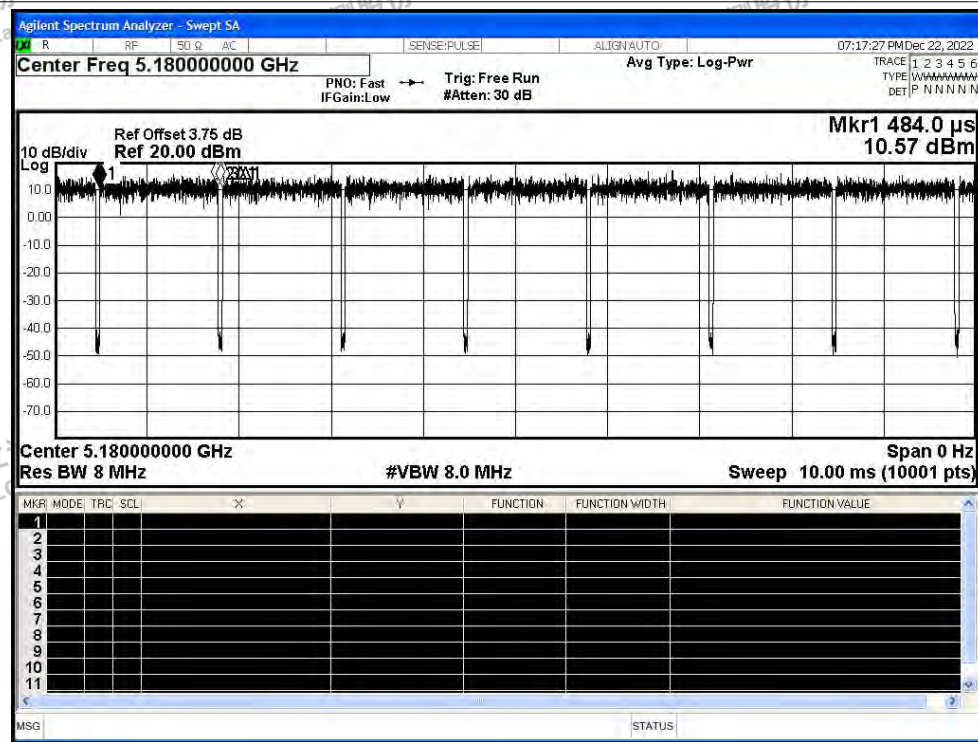




Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



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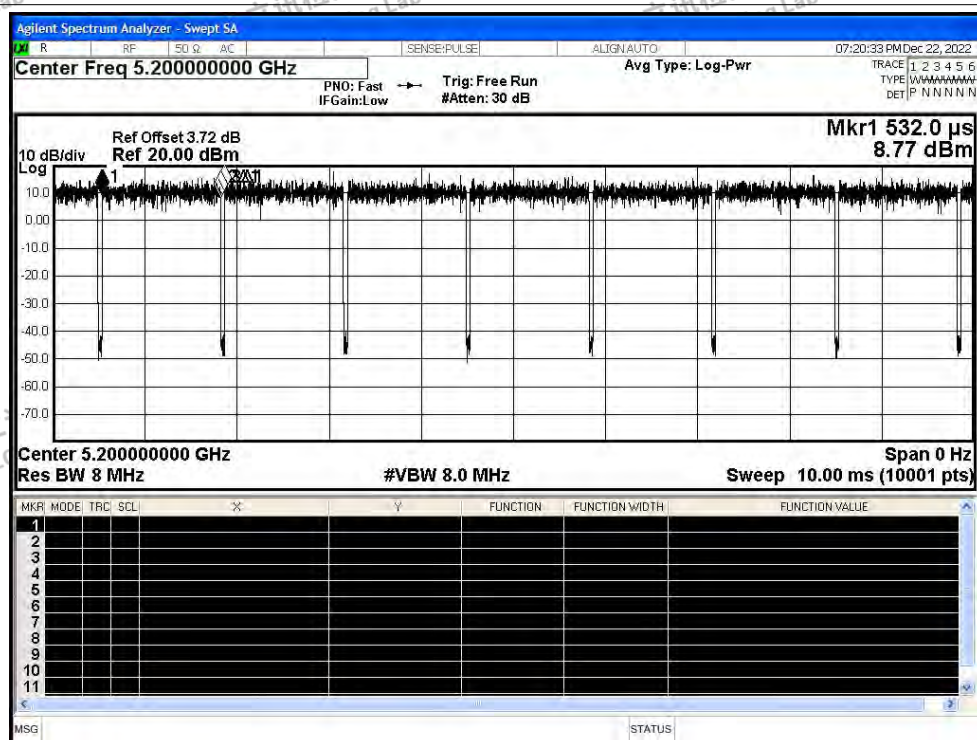
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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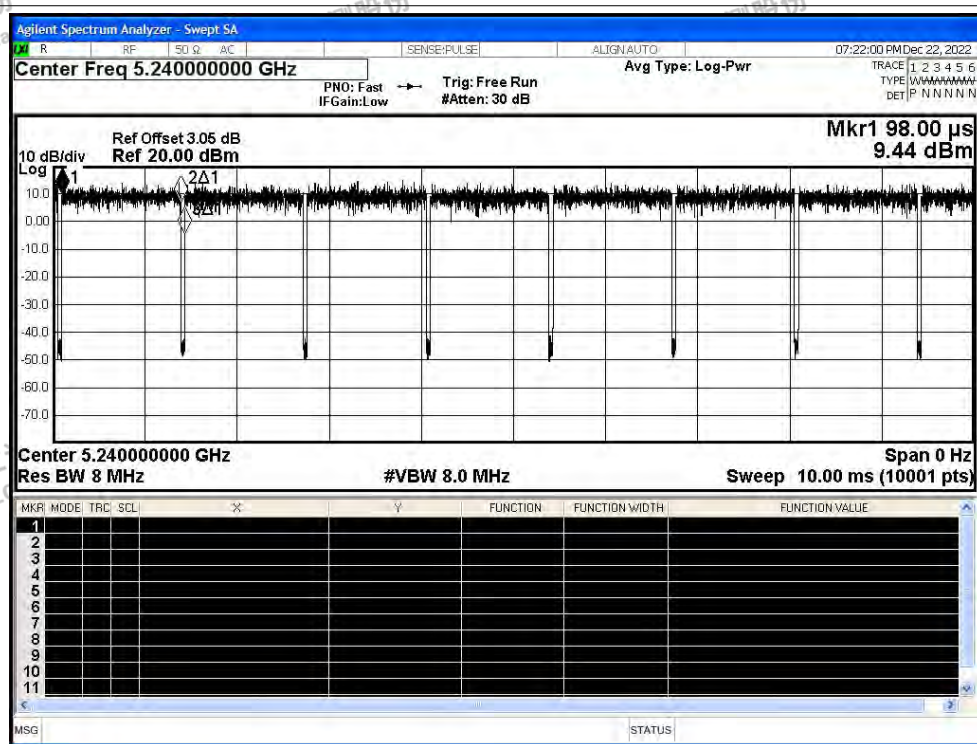
Scan code to check authenticity



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



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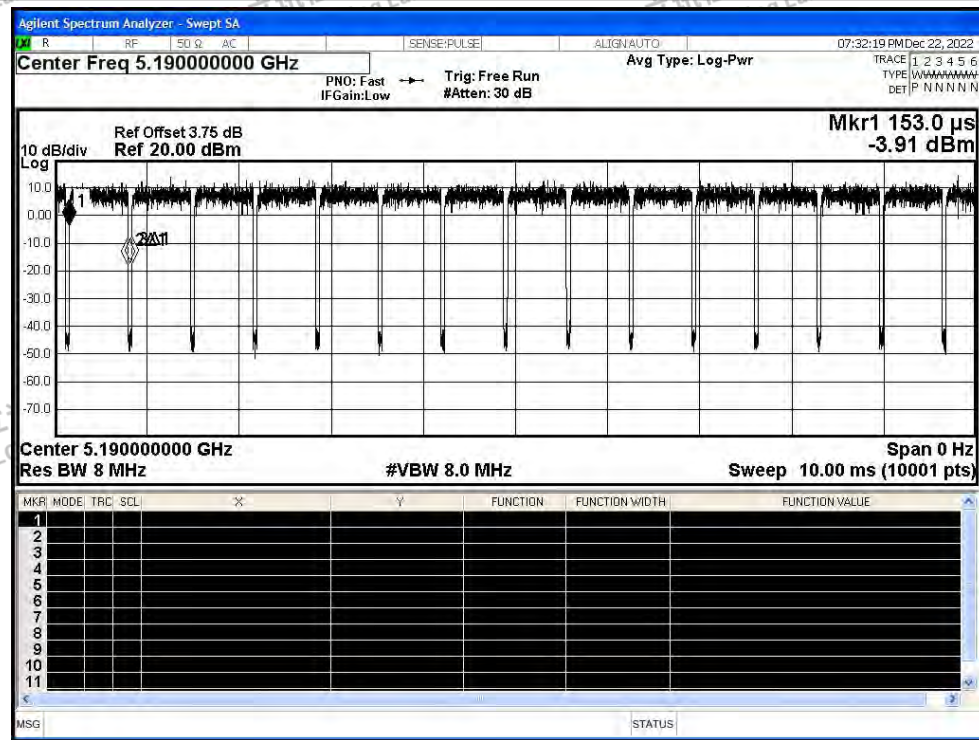
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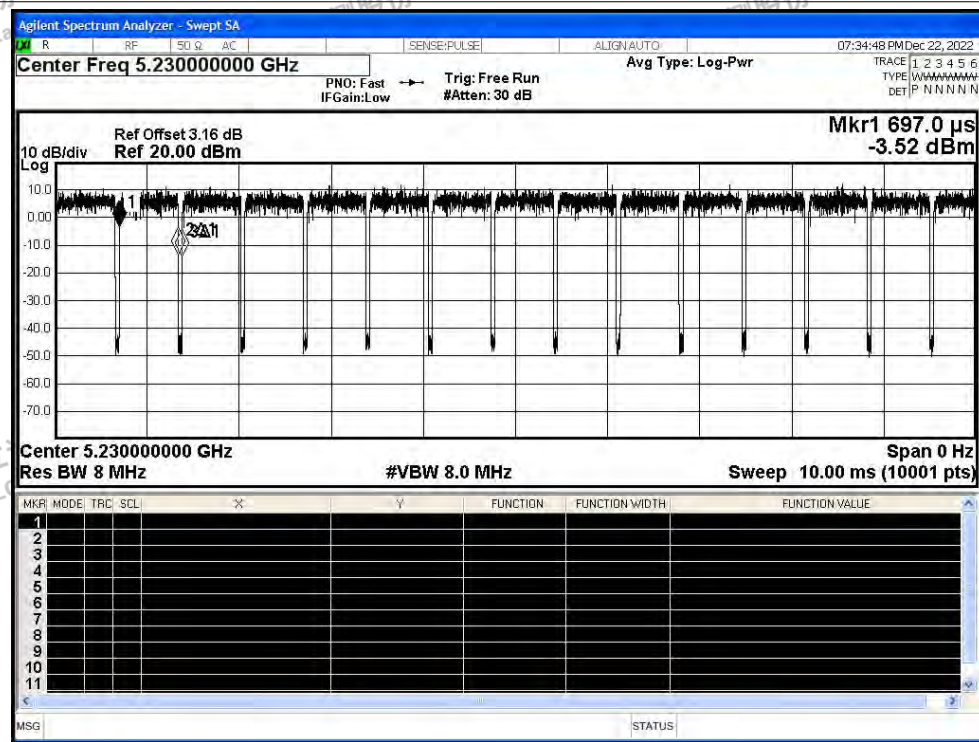
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



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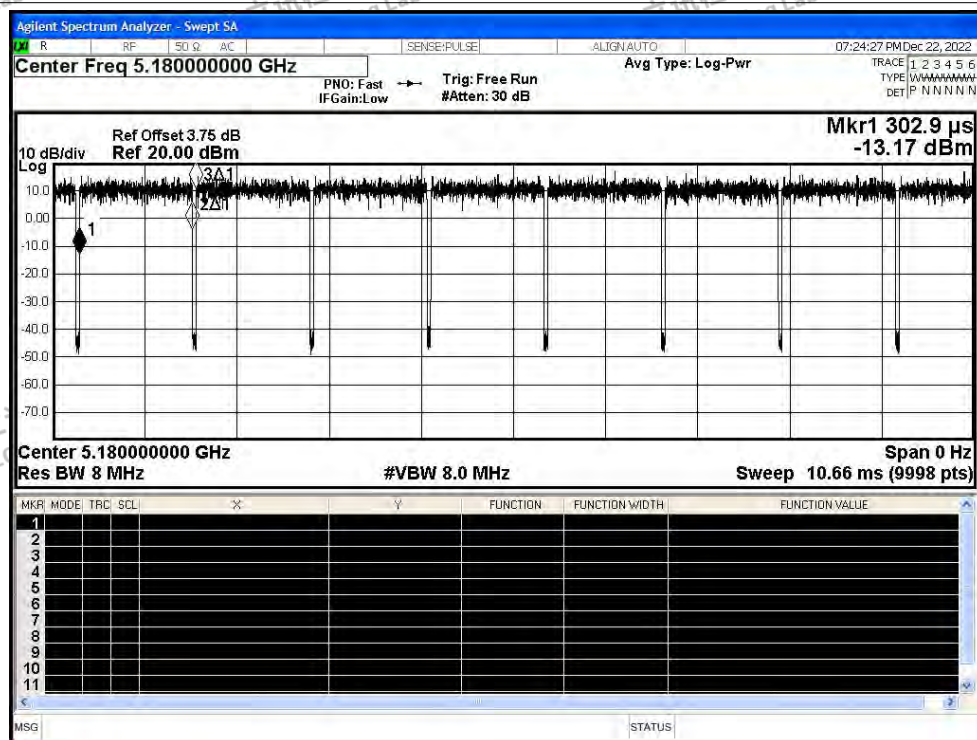
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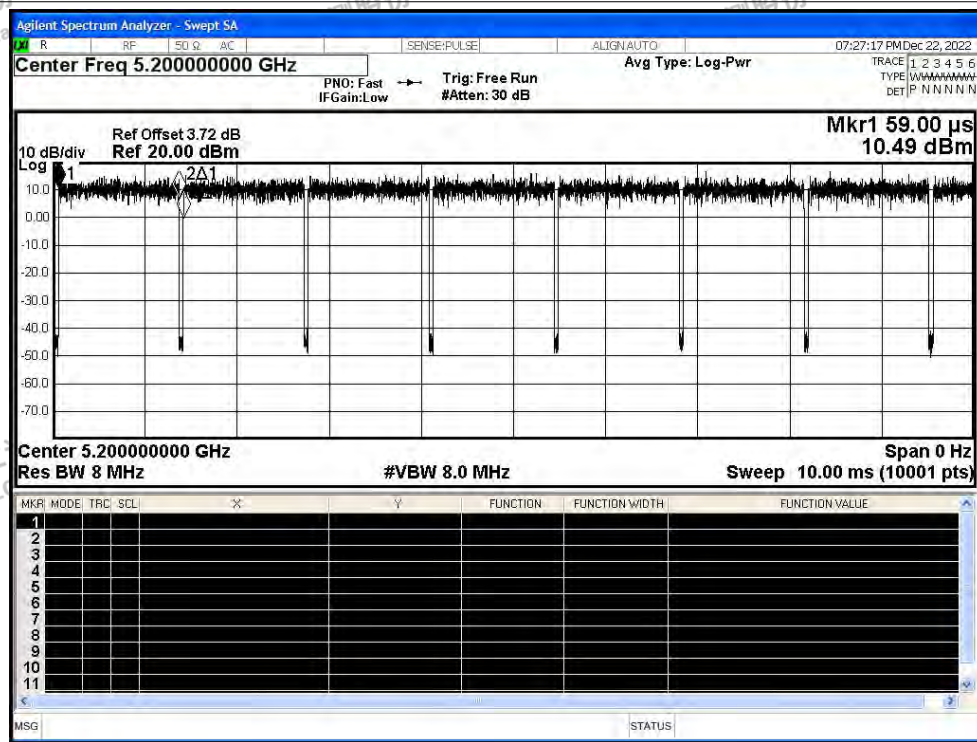
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Duty Cycle NVNT ac20 5180MHz Ant1



Duty Cycle NVNT ac20 5200MHz Ant1



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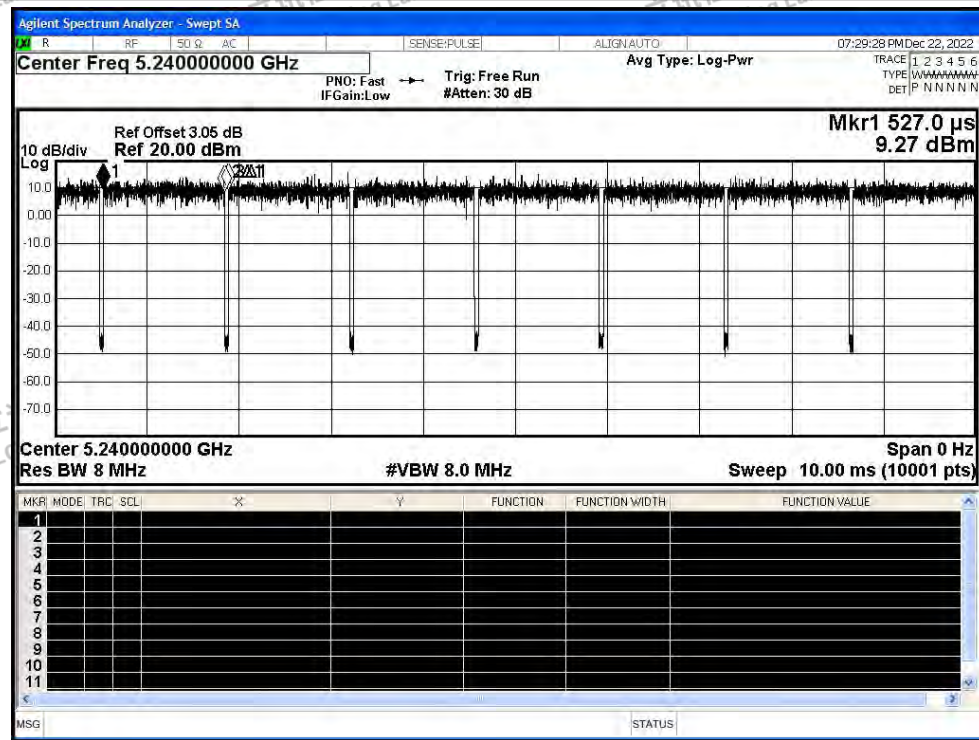
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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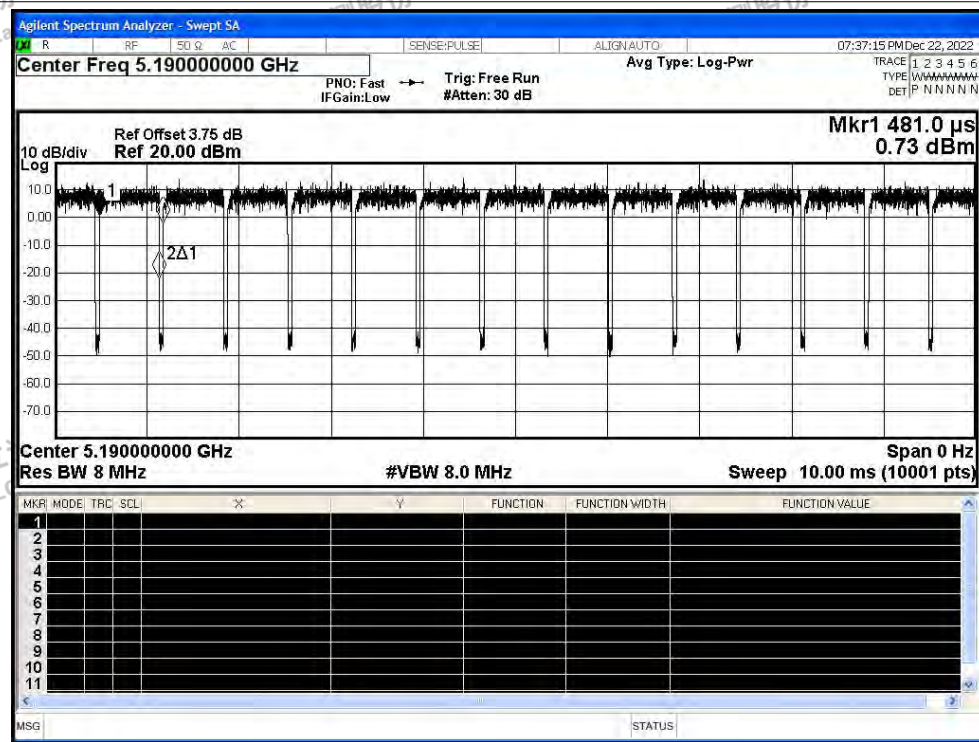
Scan code to check authenticity



Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

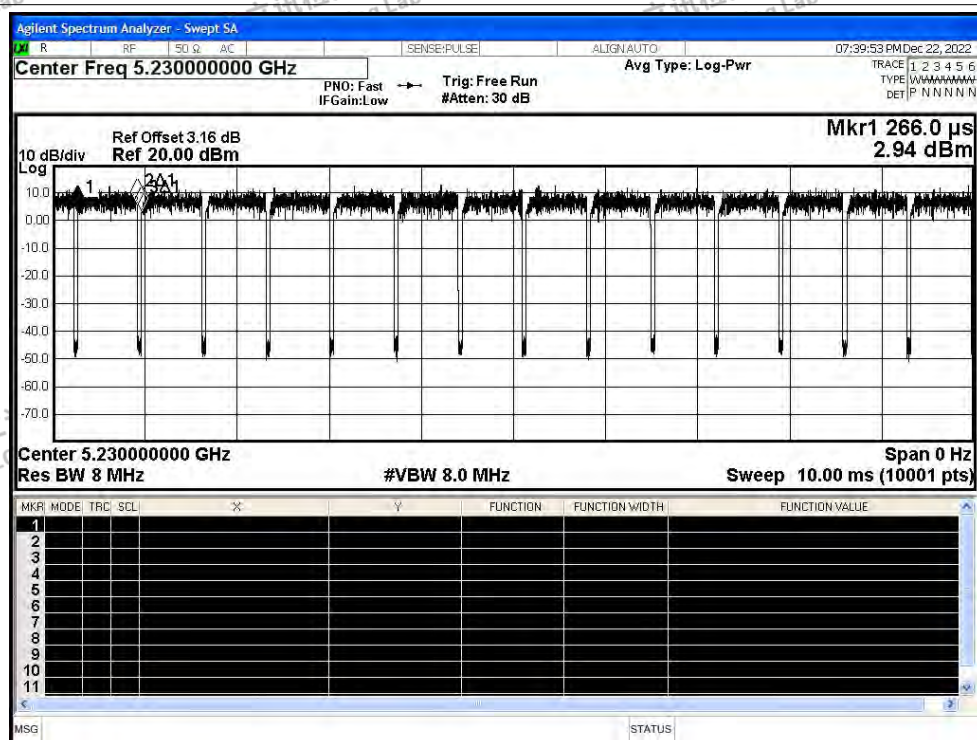
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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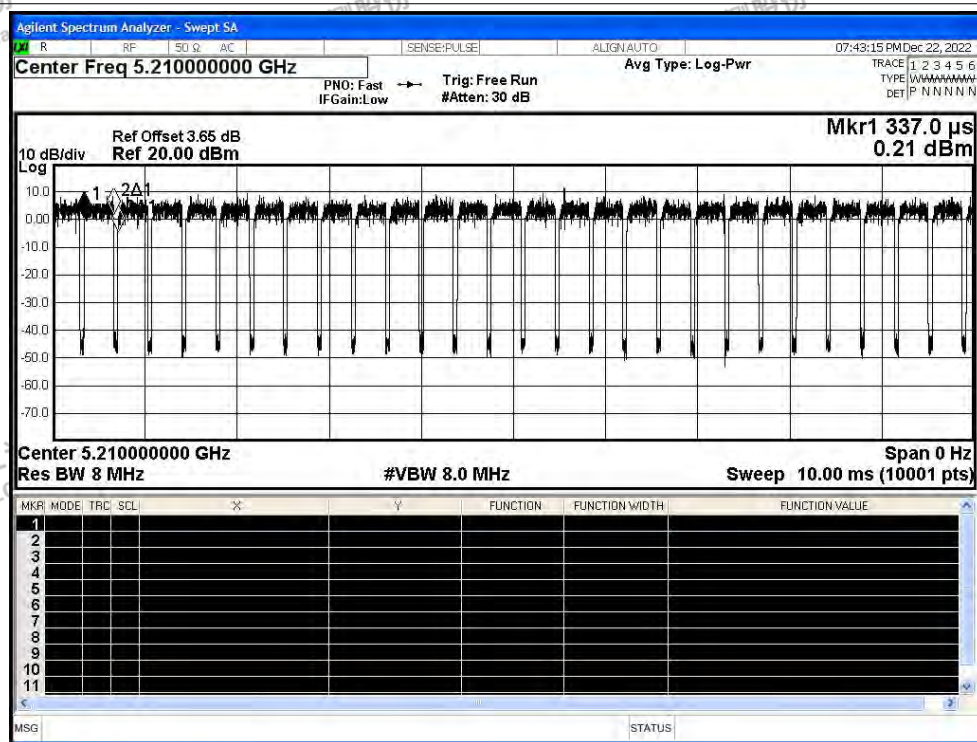
Scan code to check authenticity



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



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