



Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Industrial 5G/4G/3G Router

Test Model: QUARTZ-ONYX

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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B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	18.242	---	Pass
NVNT	a	5200	Ant0	18.174	---	Pass
NVNT	a	5240	Ant0	18.25	---	Pass
NVNT	n20	5180	Ant0	19.218	---	Pass
NVNT	n20	5200	Ant0	19.208	---	Pass
NVNT	n20	5240	Ant0	19.16	---	Pass
NVNT	n40	5190	Ant0	40.592	---	Pass
NVNT	n40	5230	Ant0	41.706	---	Pass
NVNT	ac20	5180	Ant0	19.302	---	Pass
NVNT	ac20	5200	Ant0	19.269	---	Pass
NVNT	ac20	5240	Ant0	19.335	---	Pass
NVNT	ac40	5190	Ant0	40.459	---	Pass
NVNT	ac40	5230	Ant0	40.996	---	Pass
NVNT	ac80	5210	Ant0	80.711	---	Pass



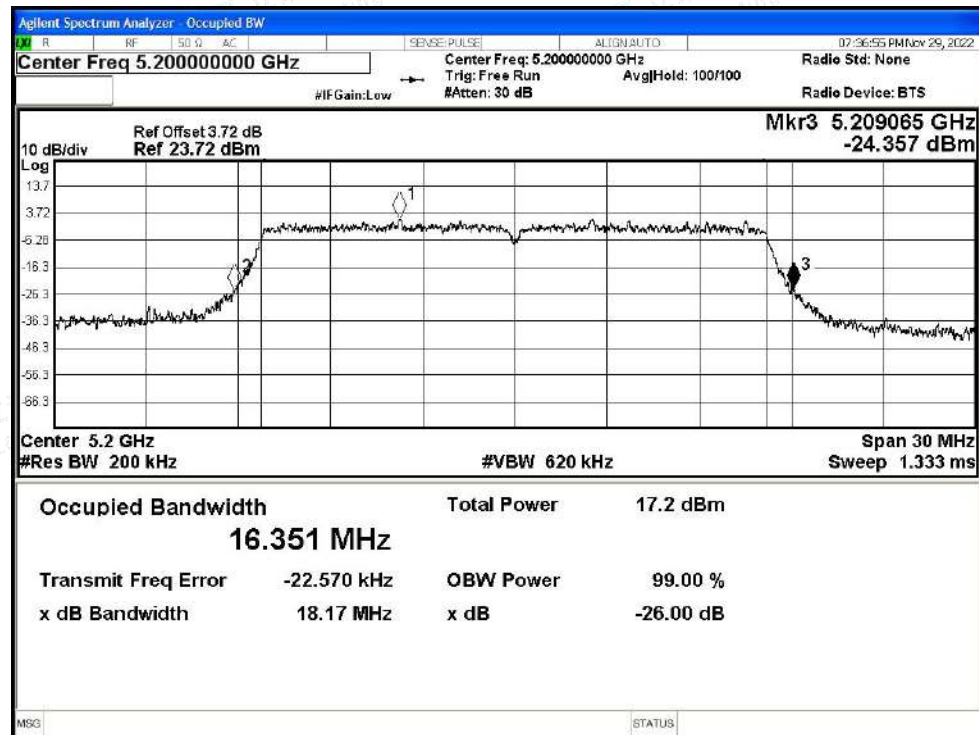


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0



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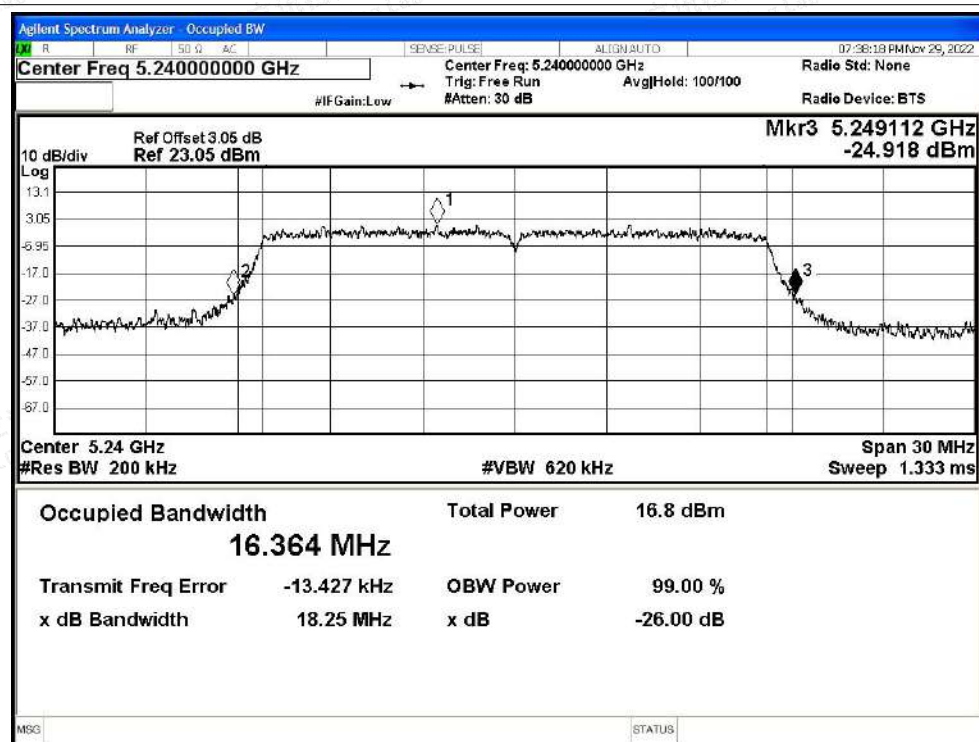
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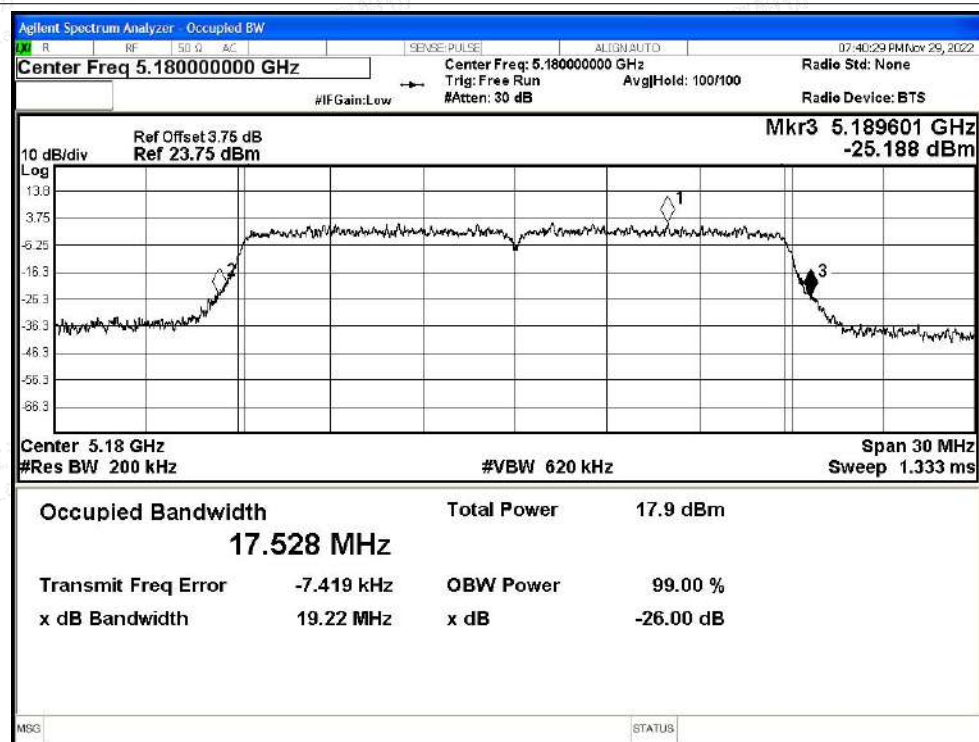
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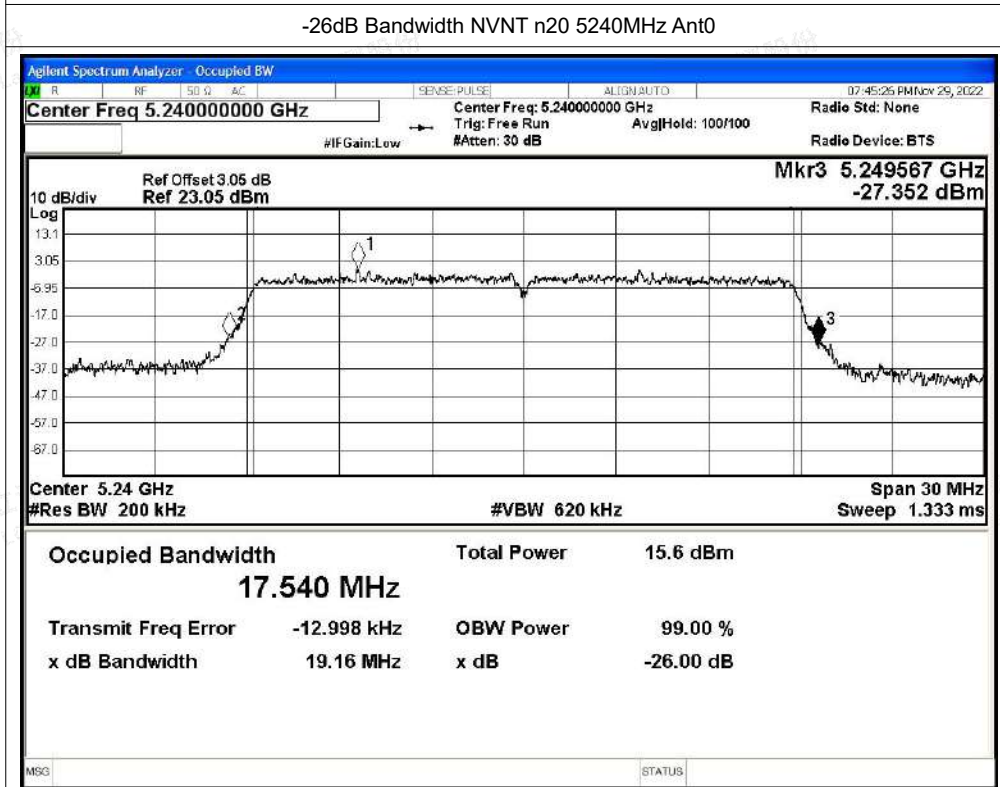
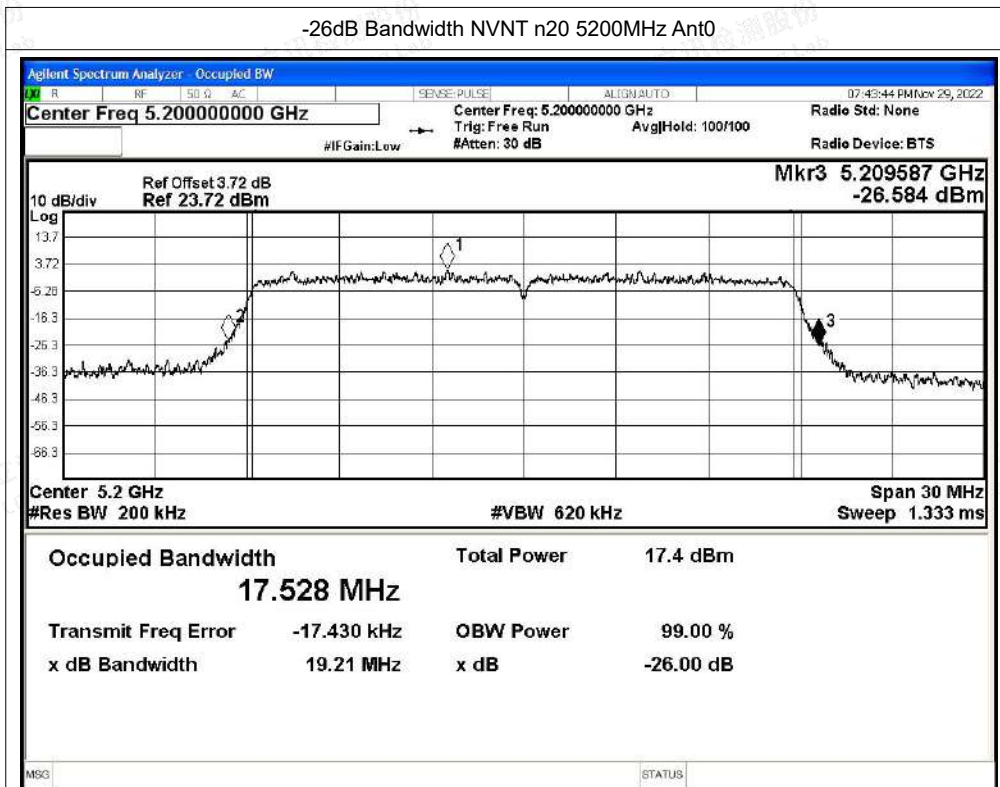


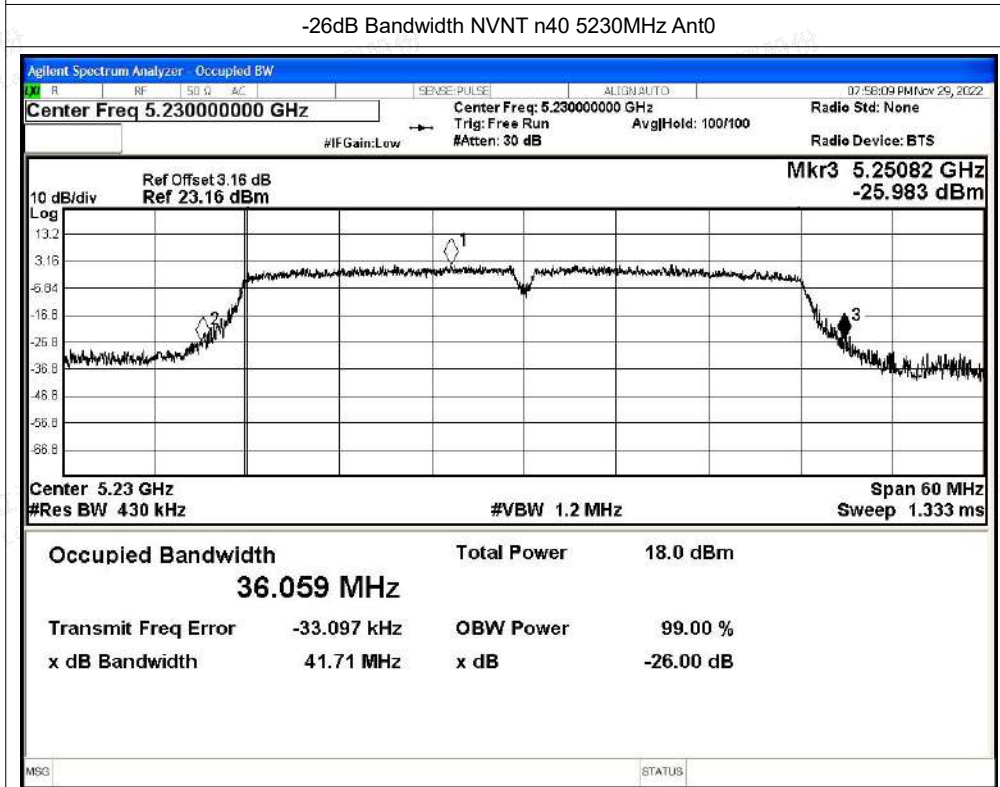
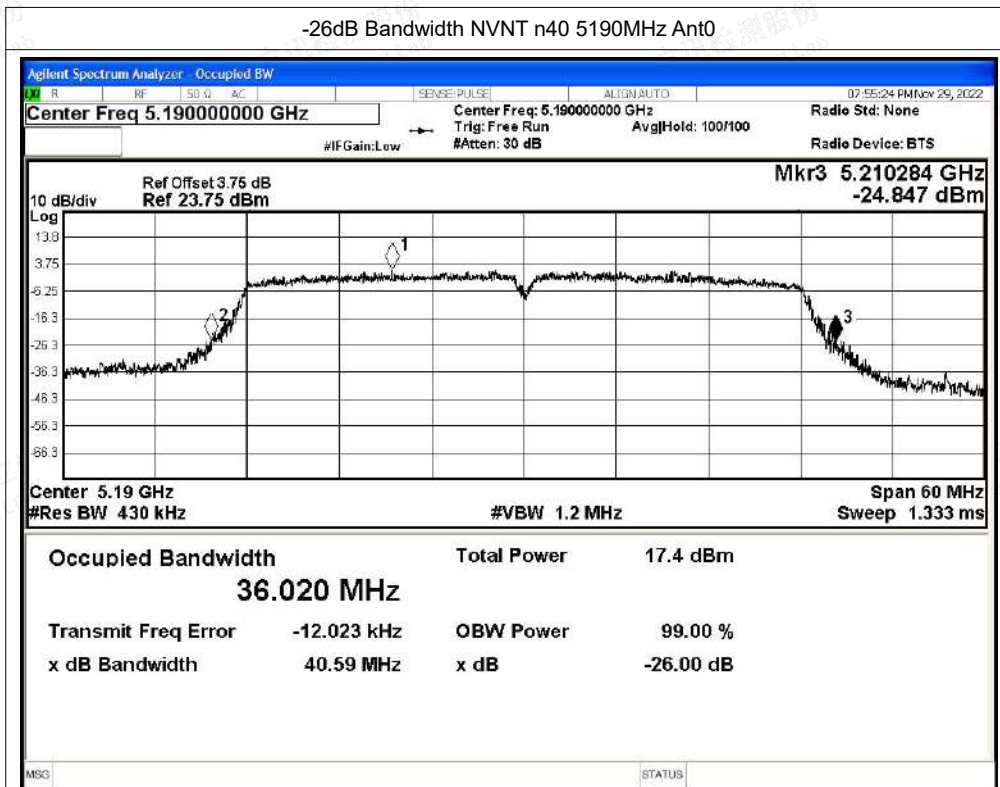
-26dB Bandwidth NVNT a 5240MHz Ant0



-26dB Bandwidth NVNT n20 5180MHz Ant0

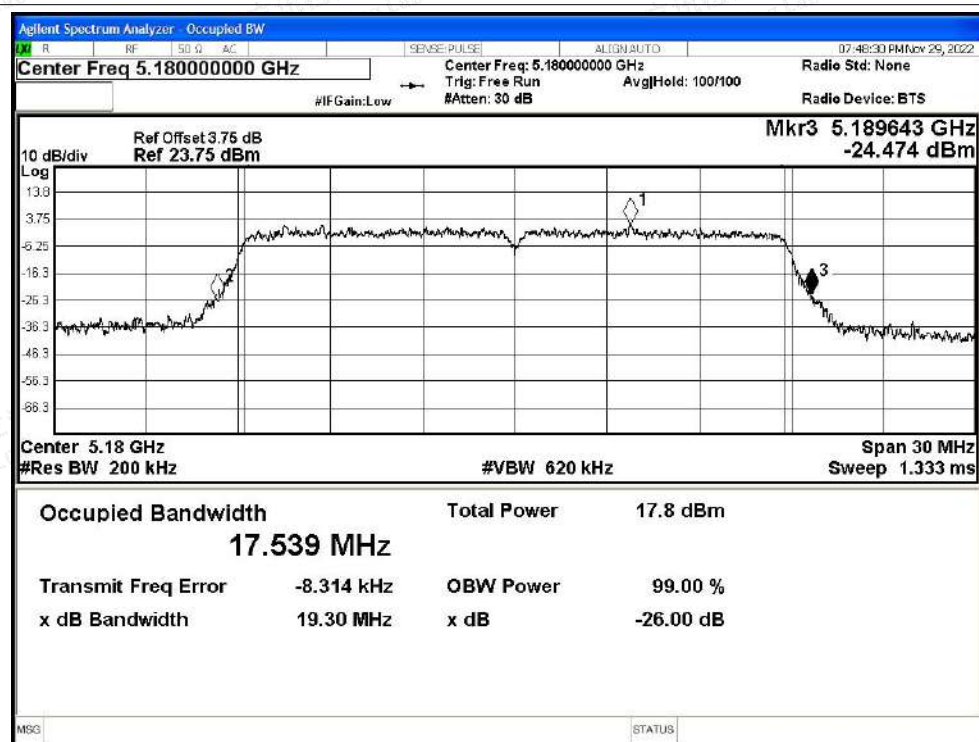




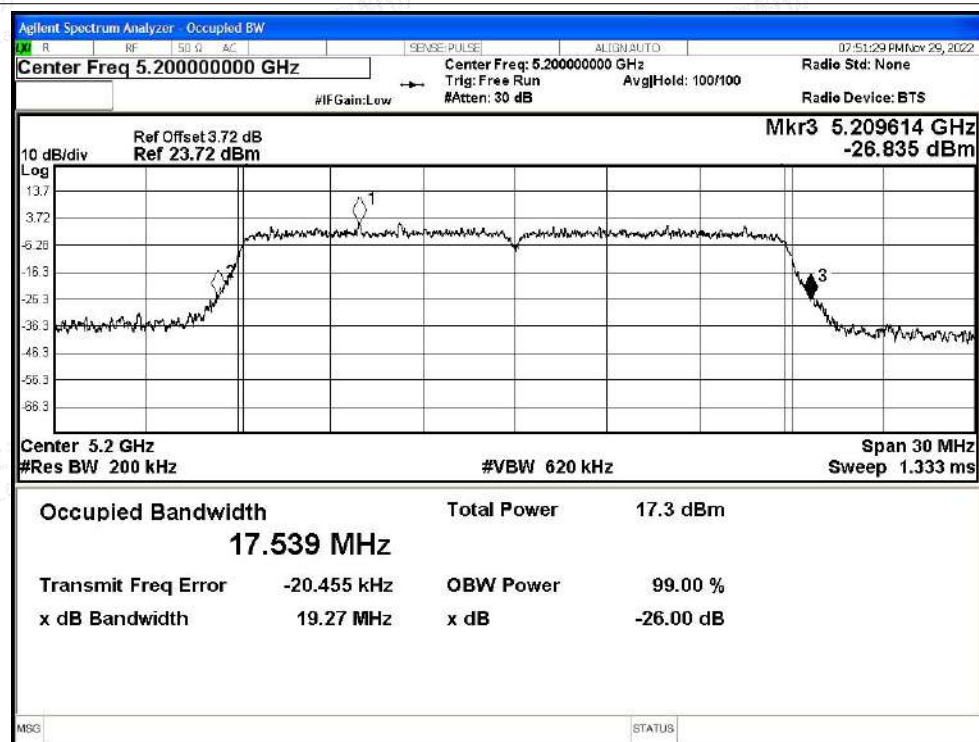




-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5200MHz Ant0



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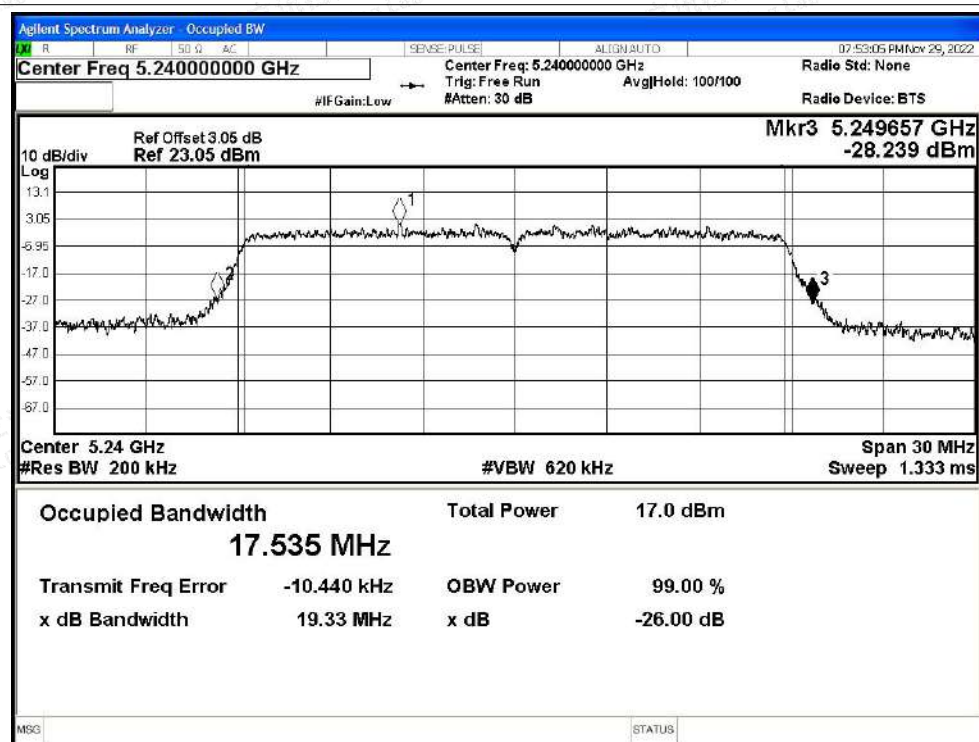
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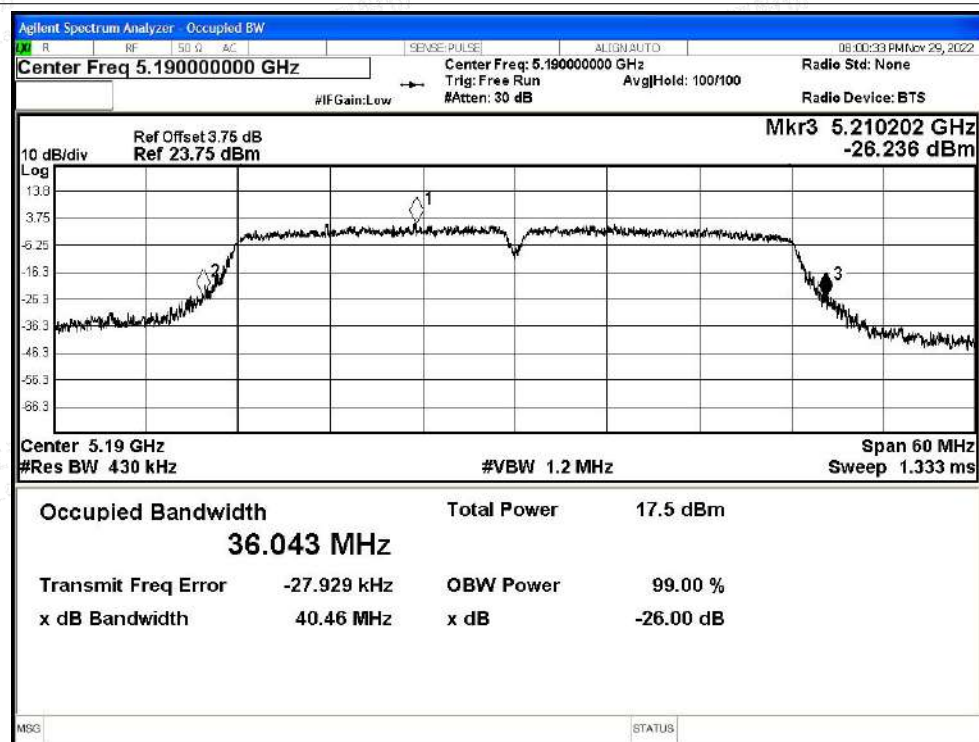
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-26dB Bandwidth NVNT ac20 5240MHz Ant0



-26dB Bandwidth NVNT ac40 5190MHz Ant0

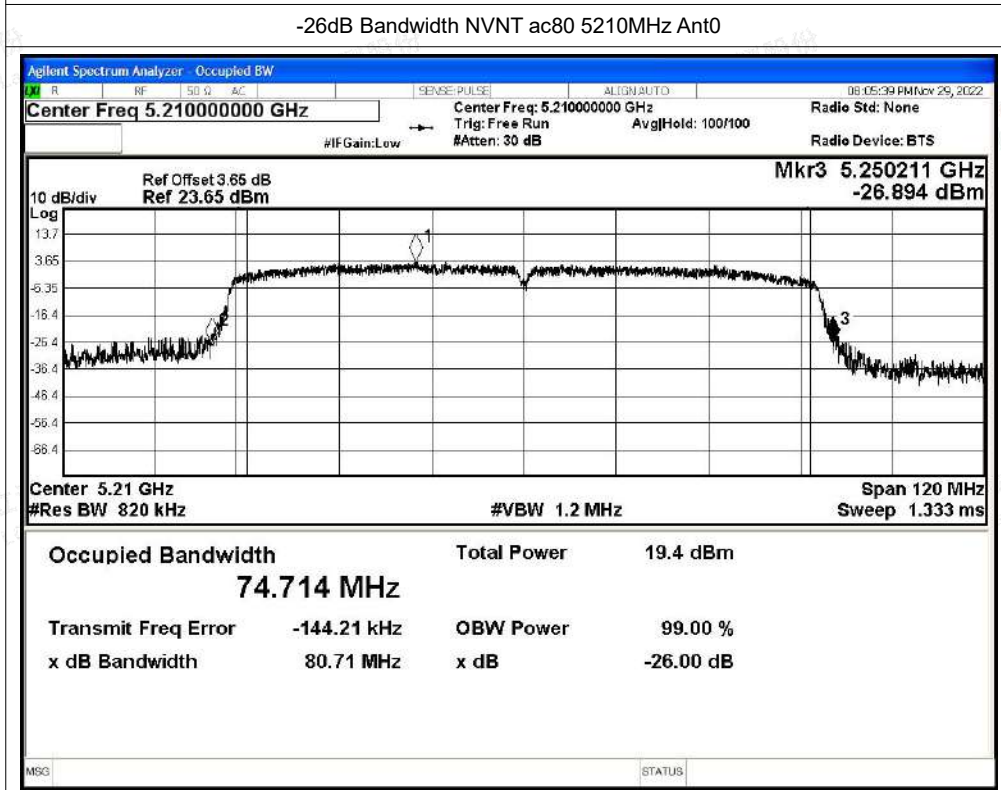
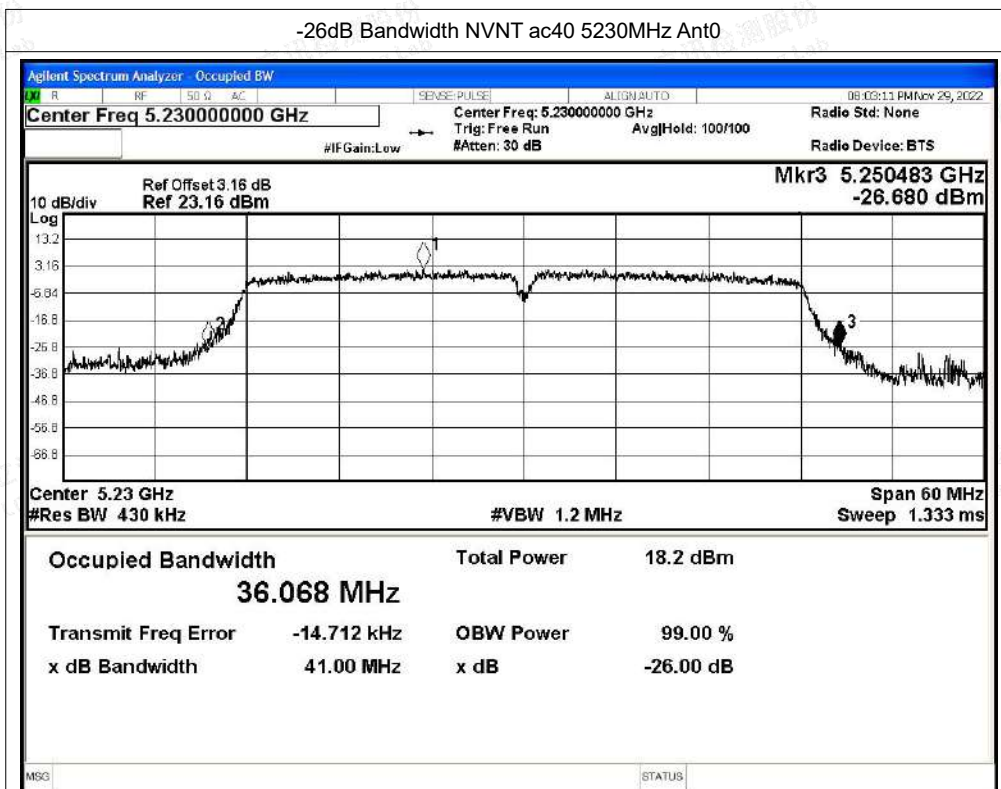


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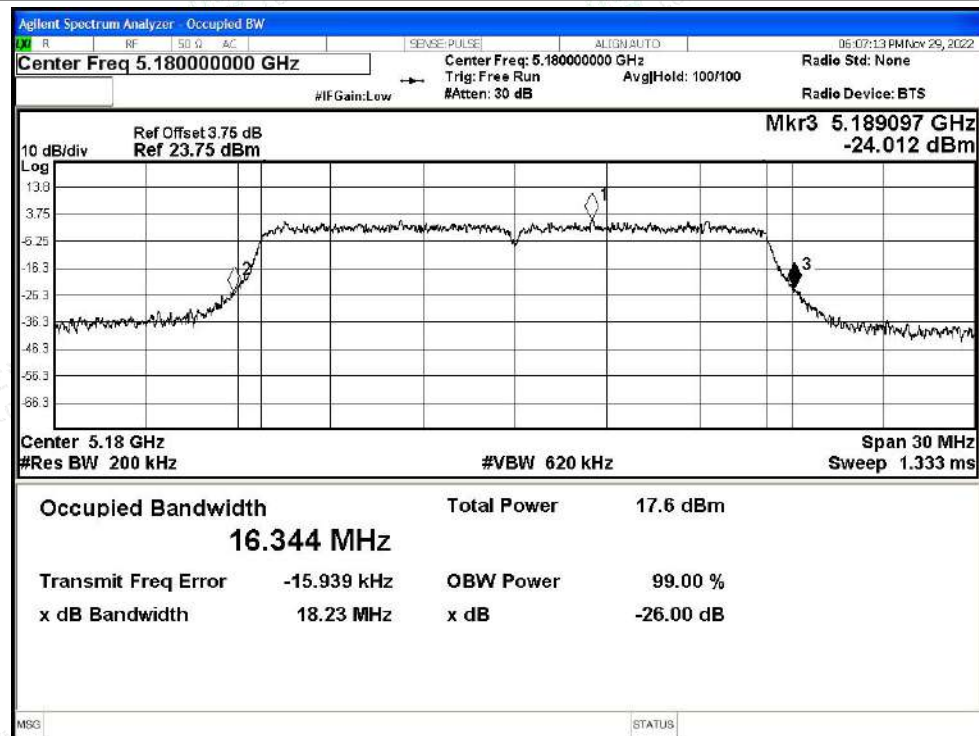
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	18.226	---	Pass
NVNT	a	5200	Ant1	18.339	---	Pass
NVNT	a	5240	Ant1	18.31	---	Pass
NVNT	n20	5180	Ant1	19.369	---	Pass
NVNT	n20	5200	Ant1	19.213	---	Pass
NVNT	n20	5240	Ant1	19.329	---	Pass
NVNT	n40	5190	Ant1	40.874	---	Pass
NVNT	n40	5230	Ant1	41.327	---	Pass
NVNT	ac20	5180	Ant1	19.366	---	Pass
NVNT	ac20	5200	Ant1	19.308	---	Pass
NVNT	ac20	5240	Ant1	19.393	---	Pass
NVNT	ac40	5190	Ant1	40.984	---	Pass
NVNT	ac40	5230	Ant1	40.738	---	Pass
NVNT	ac80	5210	Ant1	79.752	---	Pass



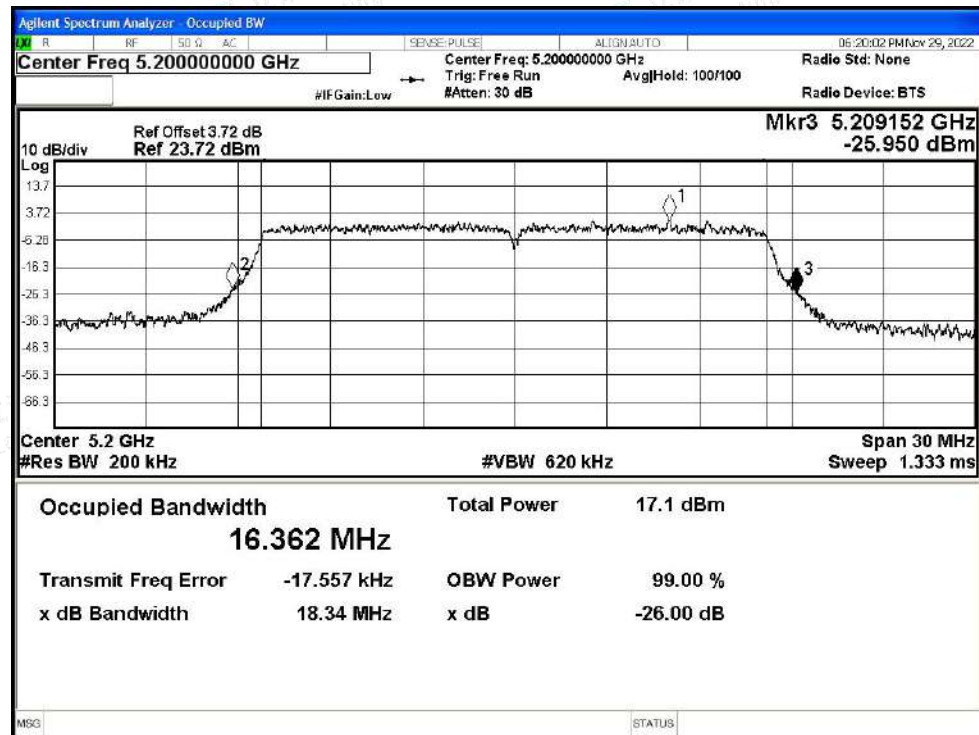


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

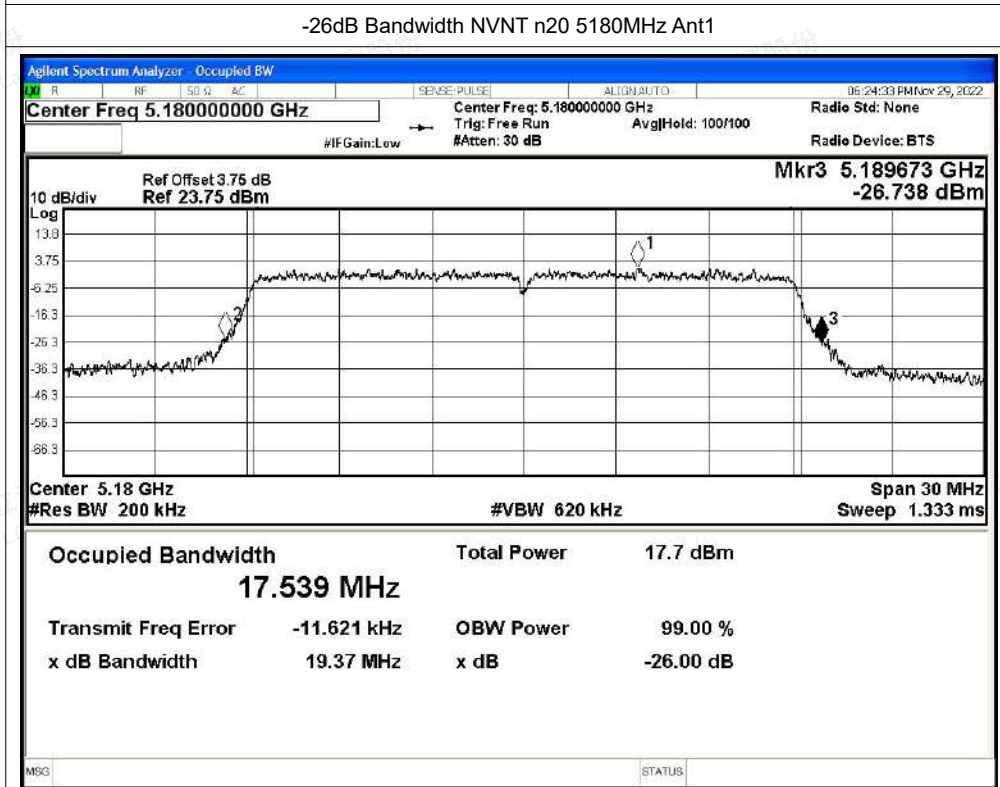
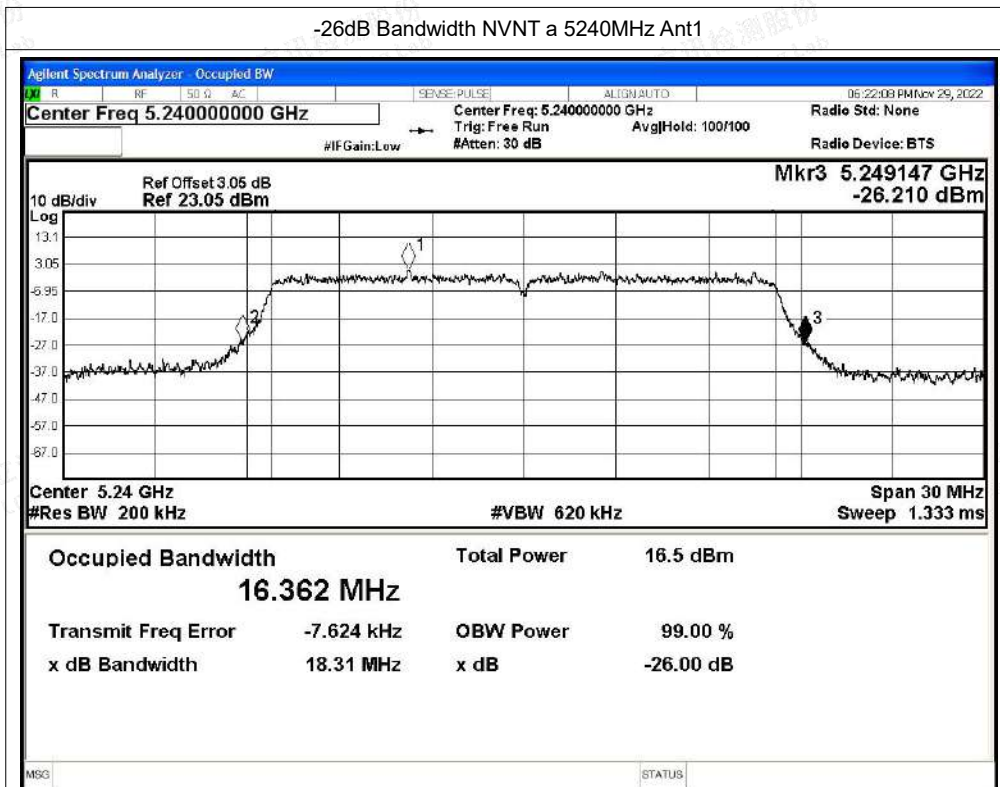


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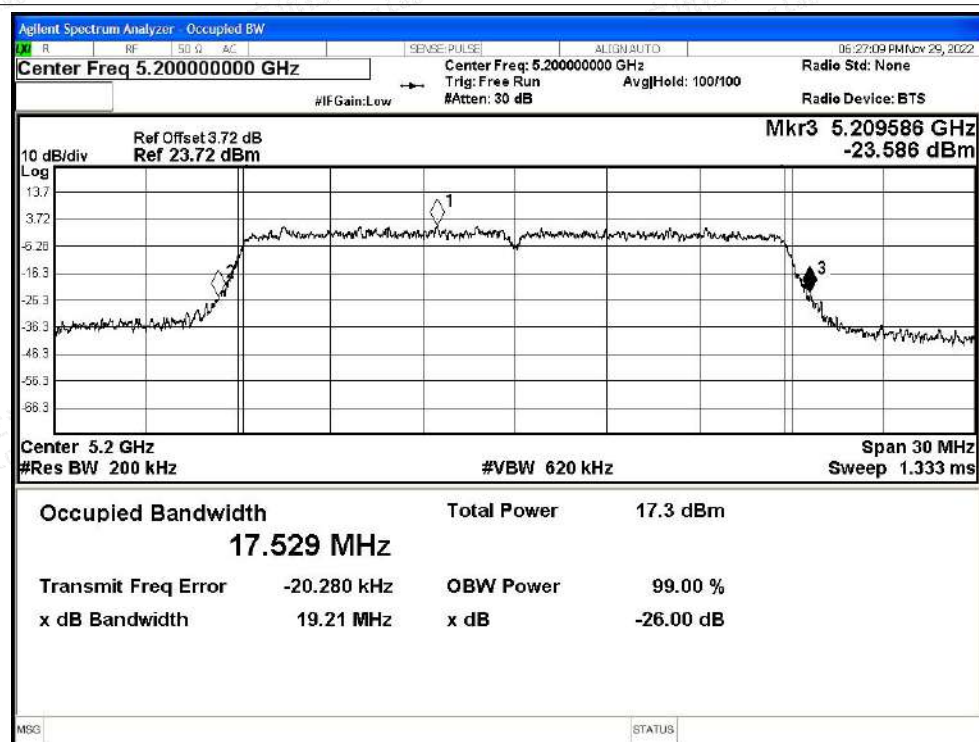
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

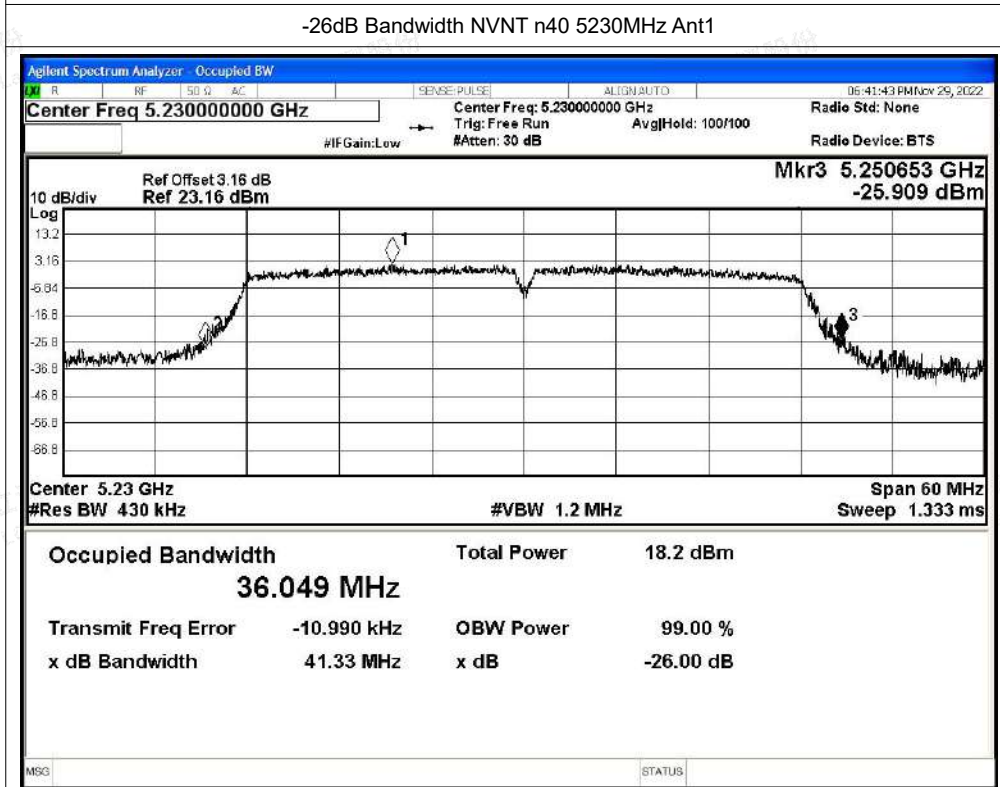
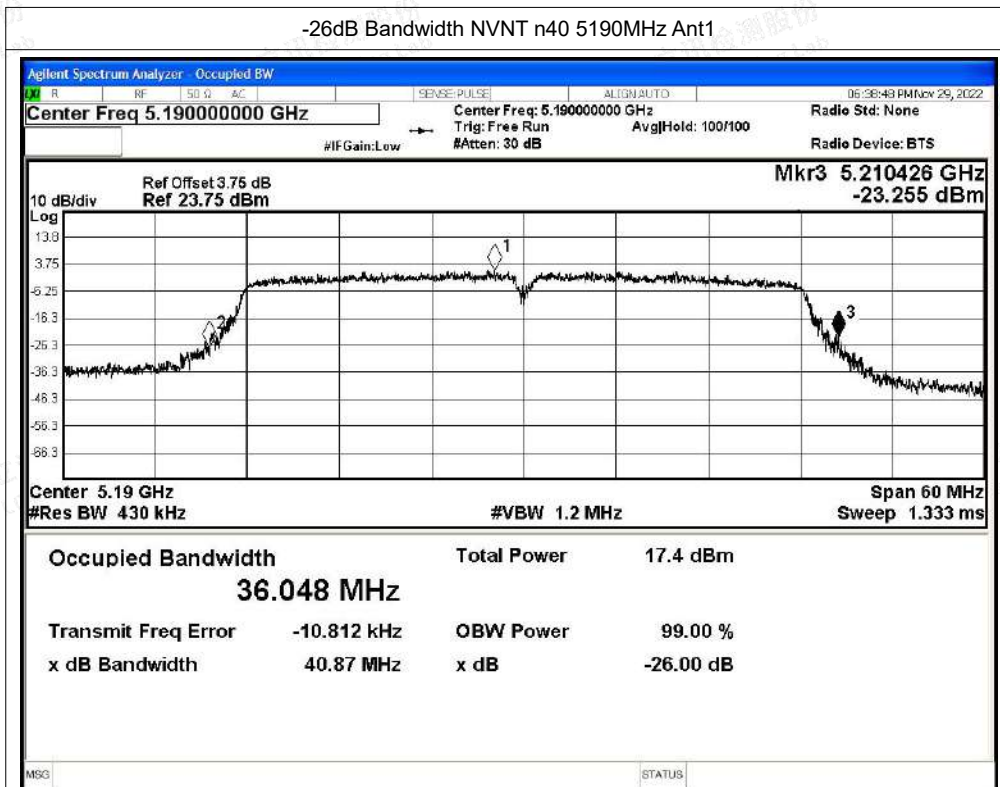


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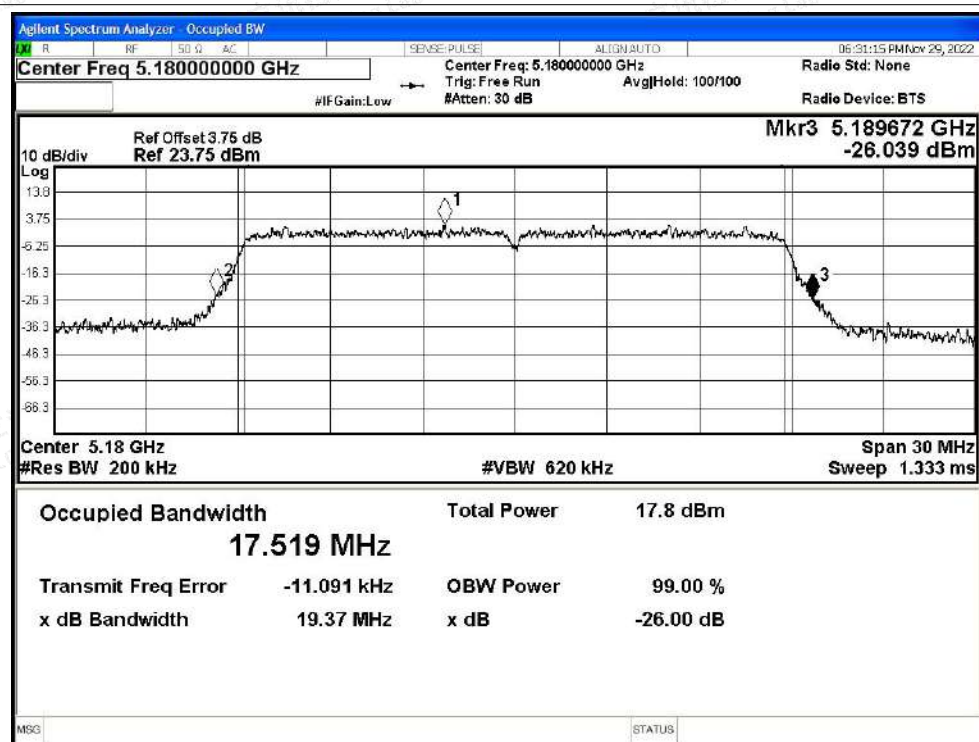
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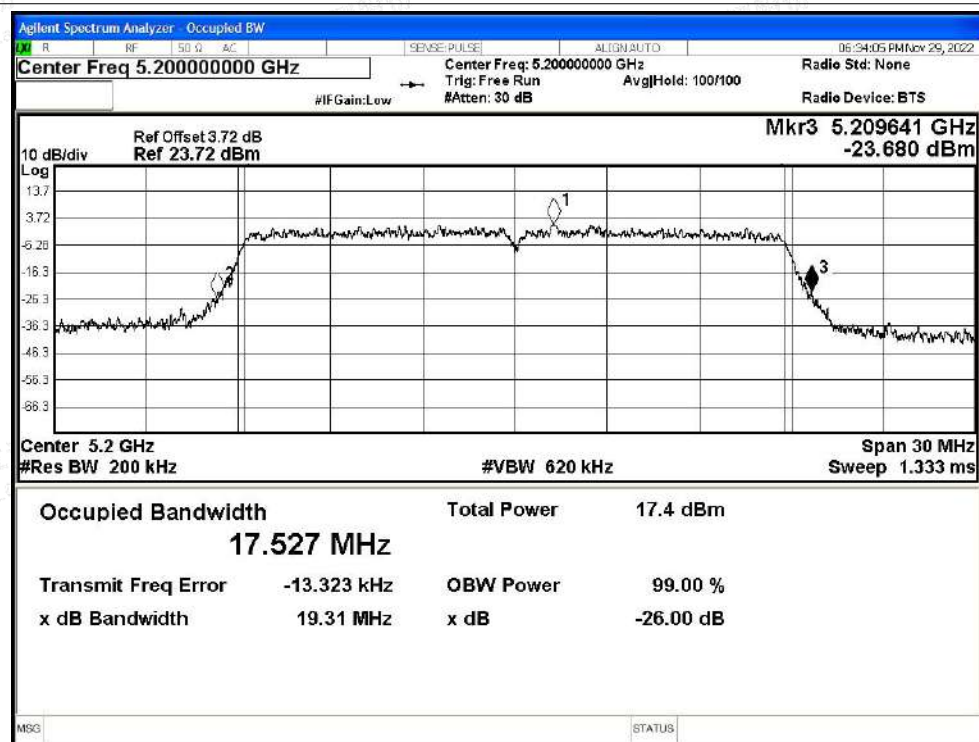




-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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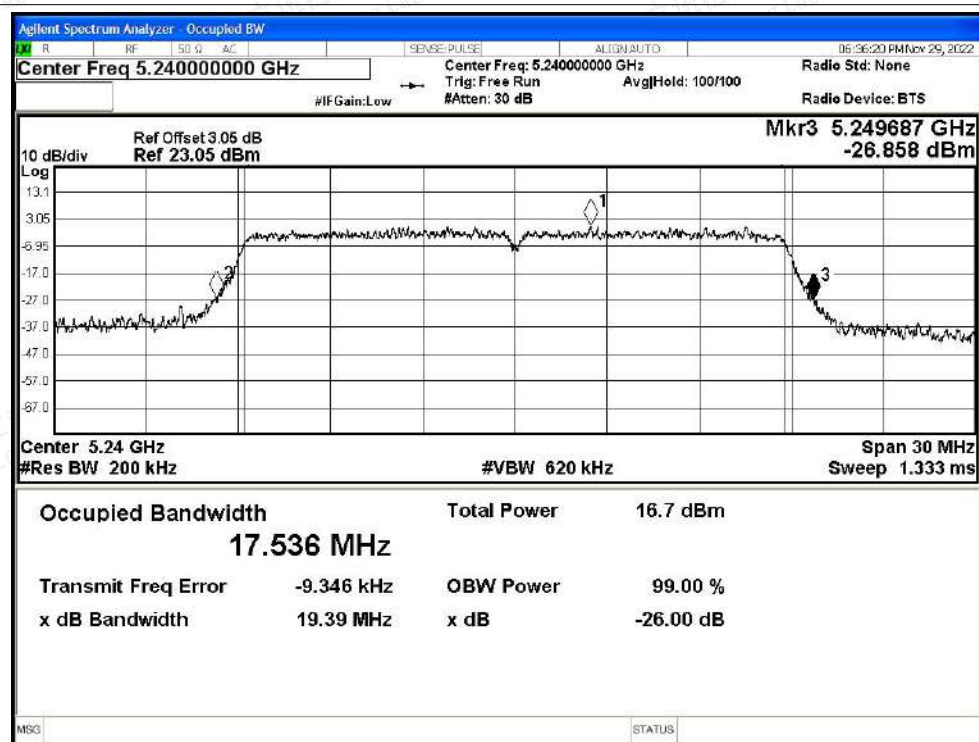
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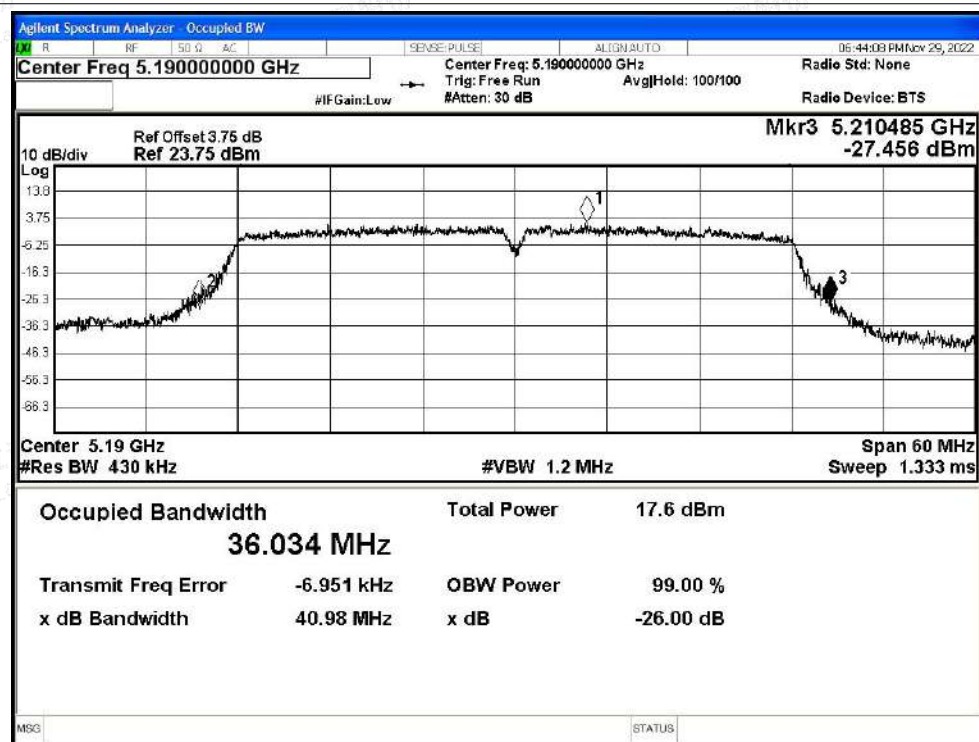
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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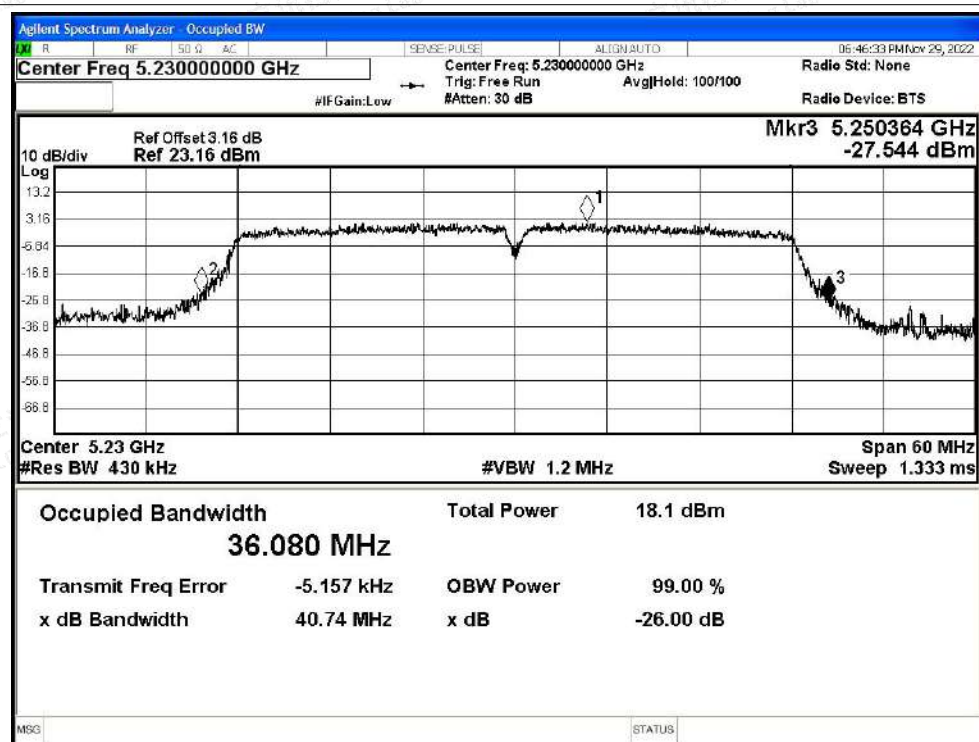
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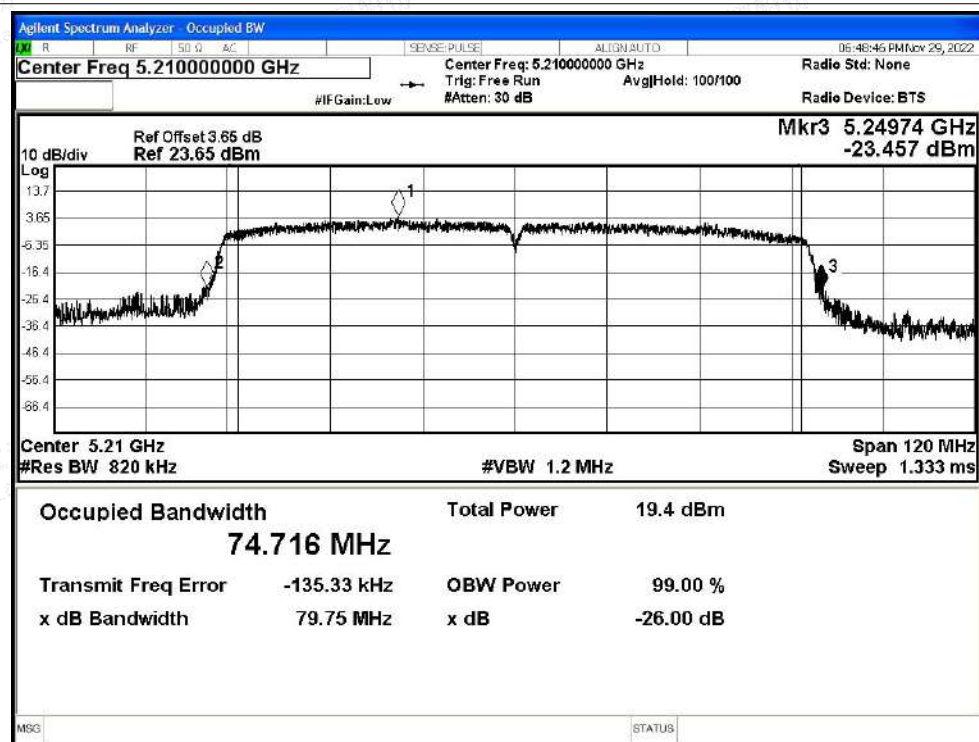
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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B.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	11.64	0.96	12.6	24	Pass
NVNT	a	5200	Ant0	11.07	0.96	12.03	24	Pass
NVNT	a	5240	Ant0	10.76	0.96	11.72	24	Pass
NVNT	n20	5180	Ant0	11.51	1.02	12.53	24	Pass
NVNT	n20	5200	Ant0	11.35	1.02	12.37	24	Pass
NVNT	n20	5240	Ant0	11.26	1.02	12.28	24	Pass
NVNT	n40	5190	Ant0	10.35	1.87	12.22	24	Pass
NVNT	n40	5230	Ant0	11.35	1.87	13.22	24	Pass
NVNT	ac20	5180	Ant0	11.54	1.02	12.56	24	Pass
NVNT	ac20	5200	Ant0	11.04	1.02	12.06	24	Pass
NVNT	ac20	5240	Ant0	10.51	1.02	11.53	24	Pass
NVNT	ac40	5190	Ant0	10.51	1.87	12.38	24	Pass
NVNT	ac40	5230	Ant0	10.89	1.86	12.75	24	Pass
NVNT	ac80	5210	Ant0	9.23	3.23	12.46	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.43	0.96	12.39	24	Pass
NVNT	a	5200	Ant1	10.97	0.96	11.93	24	Pass
NVNT	a	5240	Ant1	10.64	0.96	11.6	24	Pass
NVNT	n20	5180	Ant1	11.47	1.02	12.49	24	Pass
NVNT	n20	5200	Ant1	11.36	1.02	12.38	24	Pass
NVNT	n20	5240	Ant1	10.83	1.02	11.85	24	Pass
NVNT	n40	5190	Ant1	11.18	1.87	13.05	24	Pass
NVNT	n40	5230	Ant1	10.77	1.87	12.64	24	Pass
NVNT	ac20	5180	Ant1	11.38	1.02	12.4	24	Pass
NVNT	ac20	5200	Ant1	11.25	1.02	12.27	24	Pass
NVNT	ac20	5240	Ant1	10.63	1.02	11.65	24	Pass
NVNT	ac40	5190	Ant1	10.51	1.86	12.37	24	Pass
NVNT	ac40	5230	Ant1	10.68	1.86	12.54	24	Pass
NVNT	ac80	5210	Ant1	9.38	3.23	12.61	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	12.53	12.49	15.52	24	Pass
NVNT	n20	5200	12.37	12.38	15.39	24	Pass
NVNT	n20	5240	12.28	11.85	15.08	24	Pass
NVNT	n40	5190	12.22	13.05	15.67	24	Pass
NVNT	n40	5230	13.22	12.64	15.95	24	Pass
NVNT	ac20	5180	12.56	12.4	15.49	24	Pass
NVNT	ac20	5200	12.06	12.27	15.18	24	Pass
NVNT	ac20	5240	11.53	11.65	14.60	24	Pass
NVNT	ac40	5190	12.38	12.37	15.39	24	Pass
NVNT	ac40	5230	12.75	12.54	15.66	24	Pass
NVNT	ac80	5210	12.46	12.61	15.55	24	Pass





B.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	Ant0	-9.35	0.96	-8.39	11	Pass
NVNT	a	5200	Ant0	-10.22	0.96	-9.26	11	Pass
NVNT	a	5240	Ant0	-9.32	0.96	-8.36	11	Pass
NVNT	n20	5180	Ant0	-8.94	1.02	-7.92	11	Pass
NVNT	n20	5200	Ant0	-11.01	1.02	-9.99	11	Pass
NVNT	n20	5240	Ant0	-11.28	1.02	-10.26	11	Pass
NVNT	n40	5190	Ant0	-19.78	1.87	-17.91	11	Pass
NVNT	n40	5230	Ant0	-19.51	1.87	-17.64	11	Pass
NVNT	ac20	5180	Ant0	-11.71	1.02	-10.69	11	Pass
NVNT	ac20	5200	Ant0	-10.56	1.02	-9.54	11	Pass
NVNT	ac20	5240	Ant0	-10.55	1.02	-9.53	11	Pass
NVNT	ac40	5190	Ant0	-21.3	1.87	-19.43	11	Pass
NVNT	ac40	5230	Ant0	-18.55	1.86	-16.69	11	Pass
NVNT	ac80	5210	Ant0	-31.6	3.23	-28.37	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-8.5	0.96	-7.54	11	Pass
NVNT	a	5200	Ant1	-10.75	0.96	-9.79	11	Pass
NVNT	a	5240	Ant1	-10.7	0.96	-9.74	11	Pass
NVNT	n20	5180	Ant1	-10.54	1.02	-9.52	11	Pass
NVNT	n20	5200	Ant1	-10.91	1.02	-9.89	11	Pass
NVNT	n20	5240	Ant1	-12.66	1.02	-11.64	11	Pass
NVNT	n40	5190	Ant1	-20.71	1.87	-18.84	11	Pass
NVNT	n40	5230	Ant1	-19.64	1.87	-17.77	11	Pass
NVNT	ac20	5180	Ant1	-7.1	1.02	-6.08	11	Pass
NVNT	ac20	5200	Ant1	-11.61	1.02	-10.59	11	Pass
NVNT	ac20	5240	Ant1	-10.38	1.02	-9.36	11	Pass
NVNT	ac40	5190	Ant1	-20.56	1.86	-18.7	11	Pass
NVNT	ac40	5230	Ant1	-18.9	1.86	-17.04	11	Pass
NVNT	ac80	5210	Ant1	-27.85	3.23	-24.62	11	Pass





MIMO

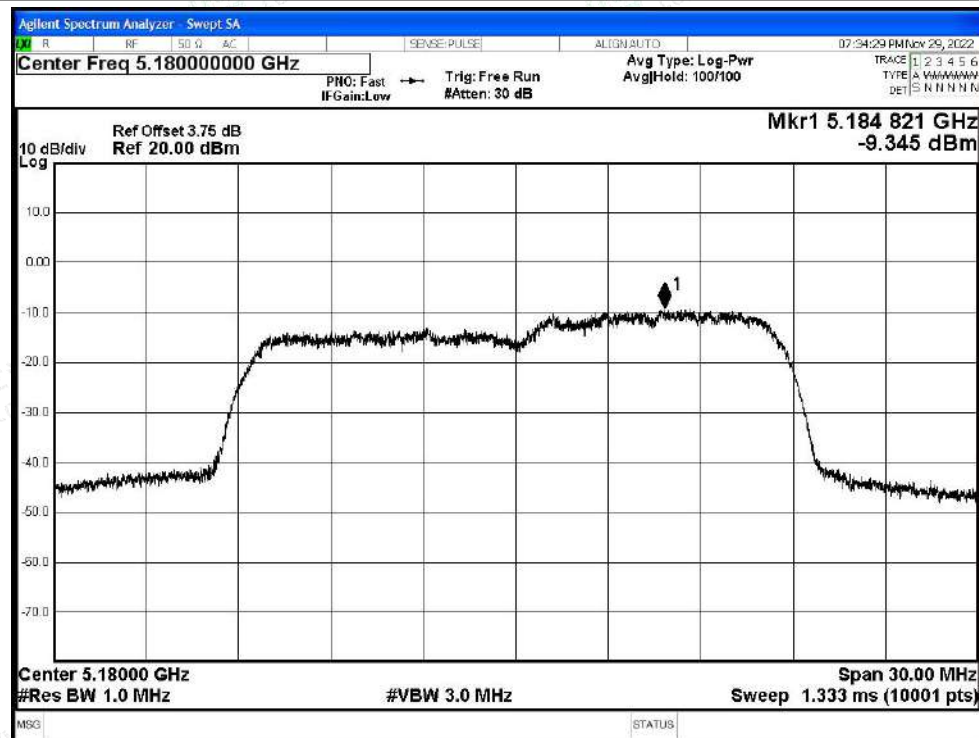
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	-7.92	-9.52	-5.64	10.99	Pass
NVNT	n20	5200	-9.99	-9.89	-6.93	10.99	Pass
NVNT	n20	5240	-10.26	-11.64	-7.89	10.99	Pass
NVNT	n40	5190	-17.91	-18.84	-15.34	10.99	Pass
NVNT	n40	5230	-17.64	-17.77	-14.69	10.99	Pass
NVNT	ac20	5180	-10.69	-6.08	-4.79	10.99	Pass
NVNT	ac20	5200	-9.54	-10.59	-7.02	10.99	Pass
NVNT	ac20	5240	-9.53	-9.36	-6.43	10.99	Pass
NVNT	ac40	5190	-19.43	-18.7	-16.04	10.99	Pass
NVNT	ac40	5230	-16.69	-17.04	-13.85	10.99	Pass
NVNT	ac80	5210	-28.37	-24.62	-23.09	10.99	Pass



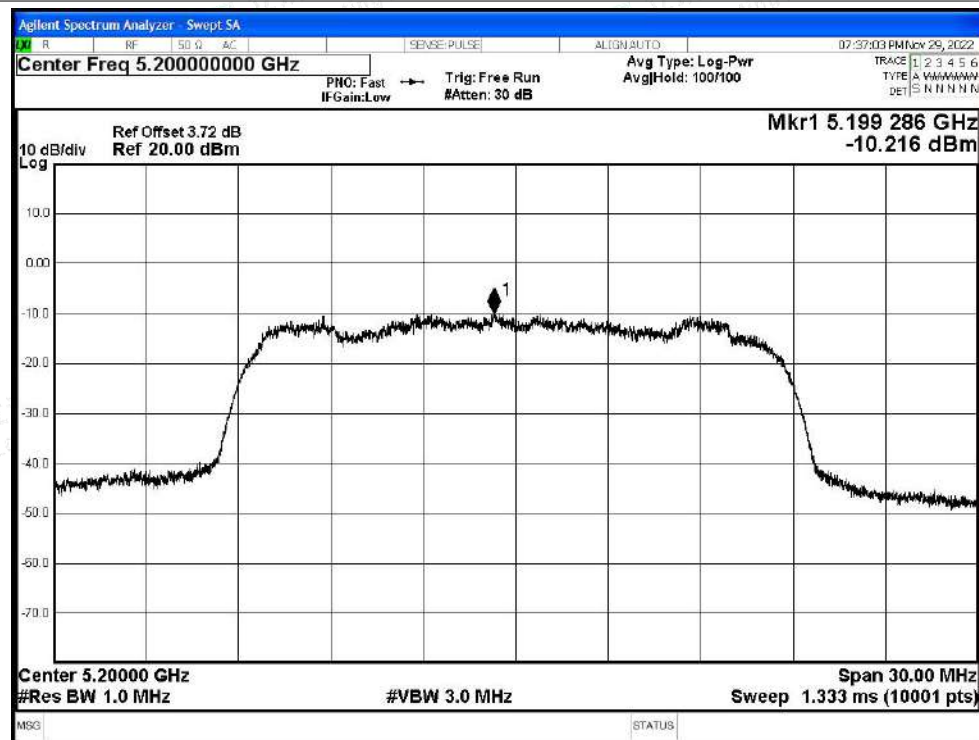


Test Graphs

PSD NVNT a 5180MHz Ant0

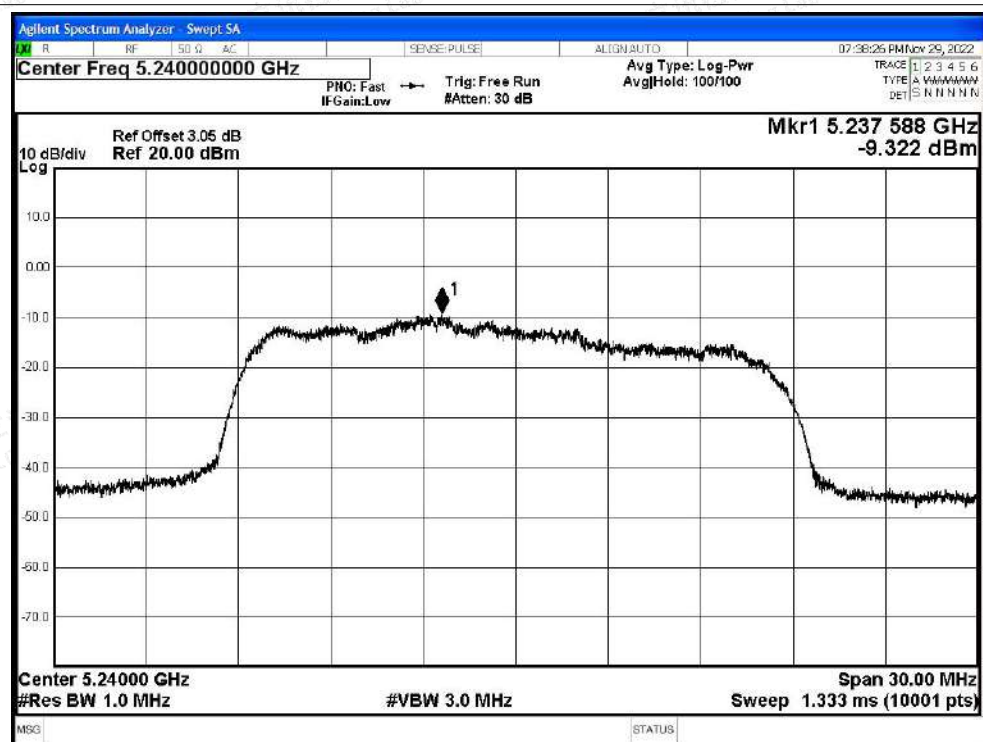


PSD NVNT a 5200MHz Ant0

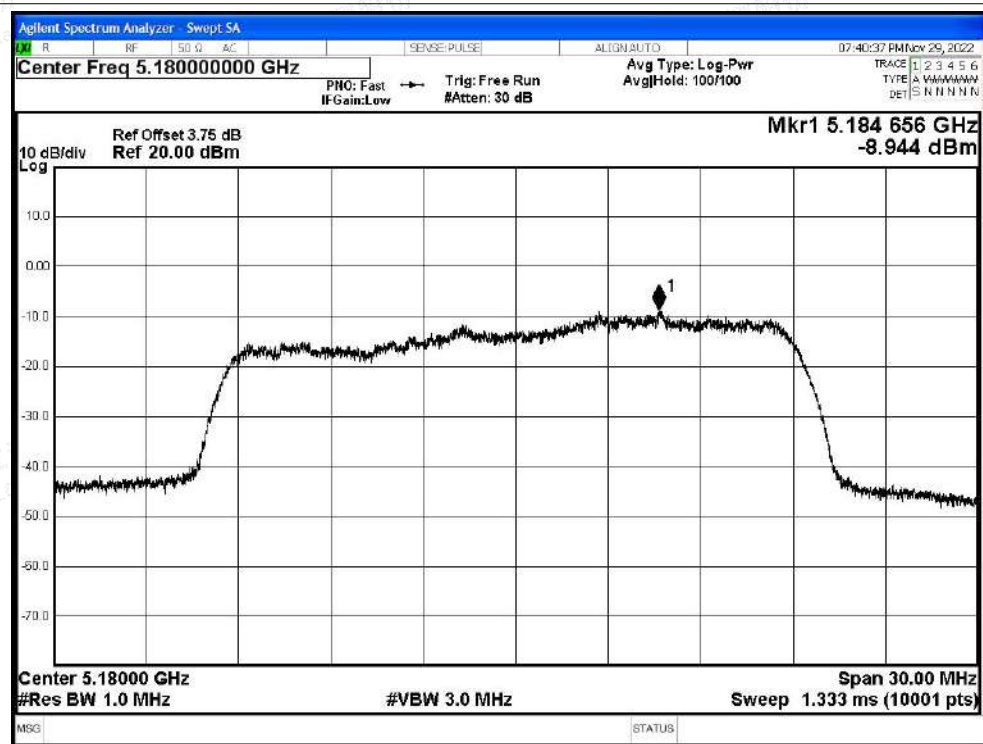


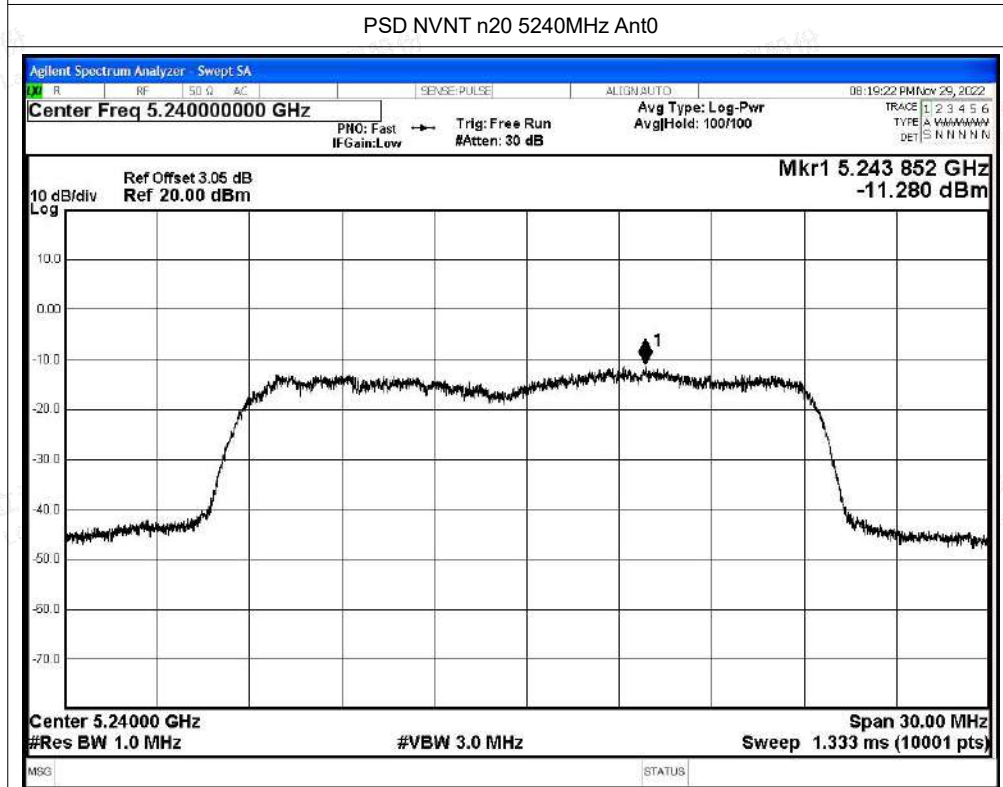
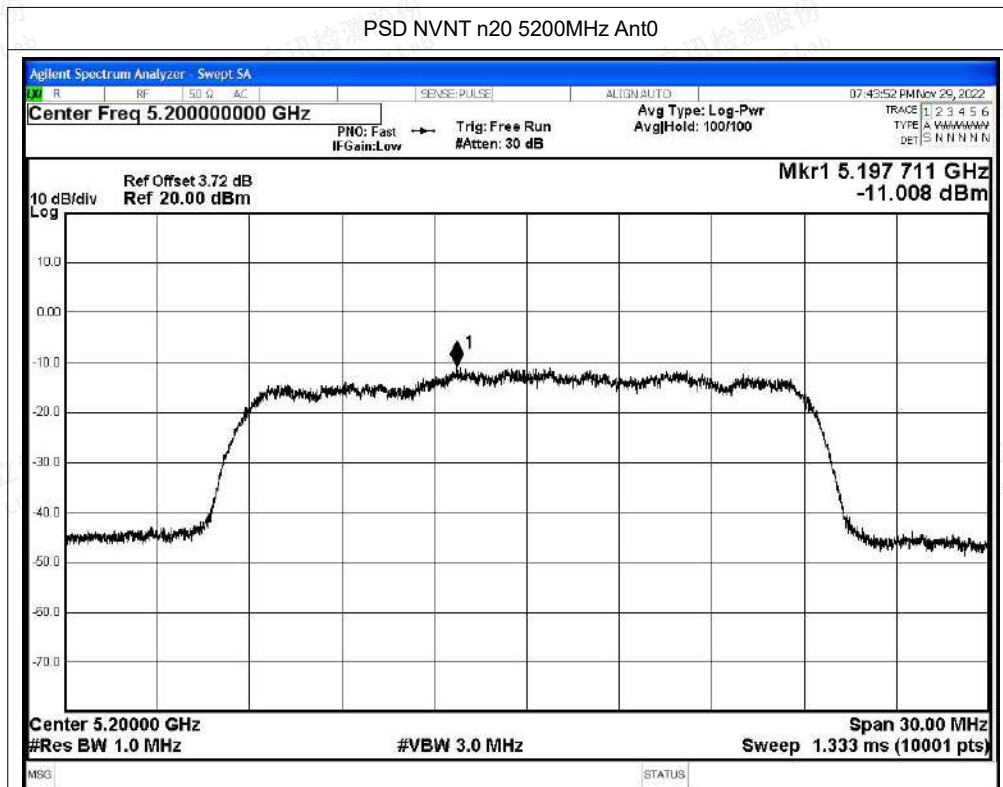


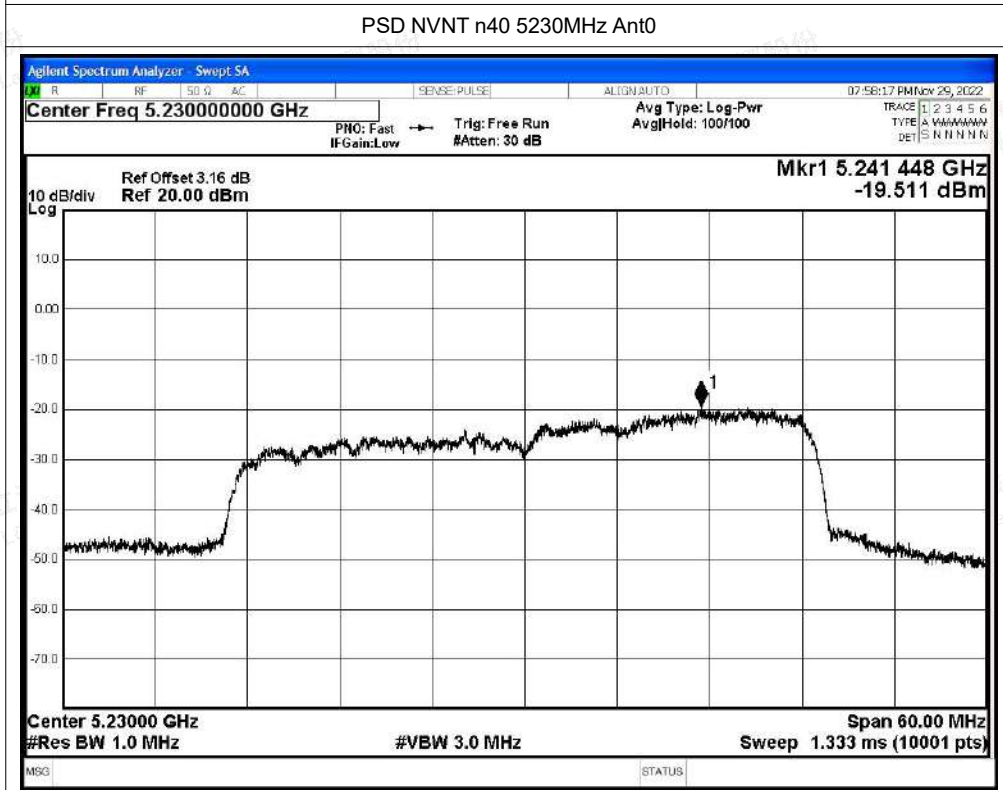
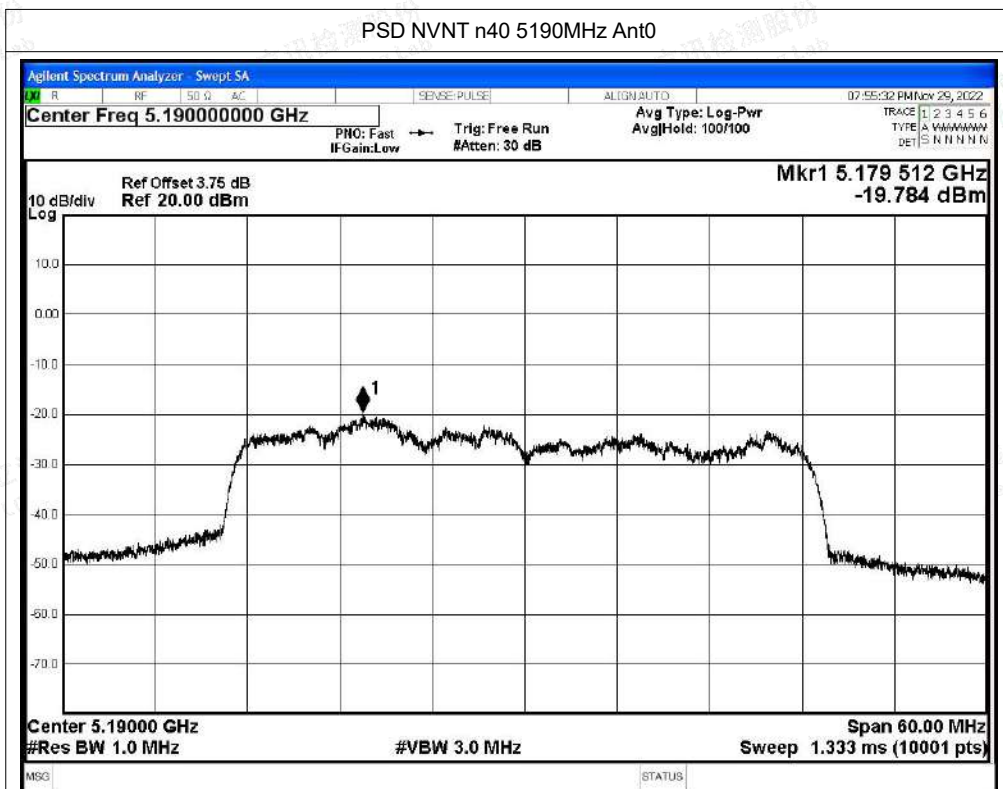
PSD NVNT a 5240MHz Ant0

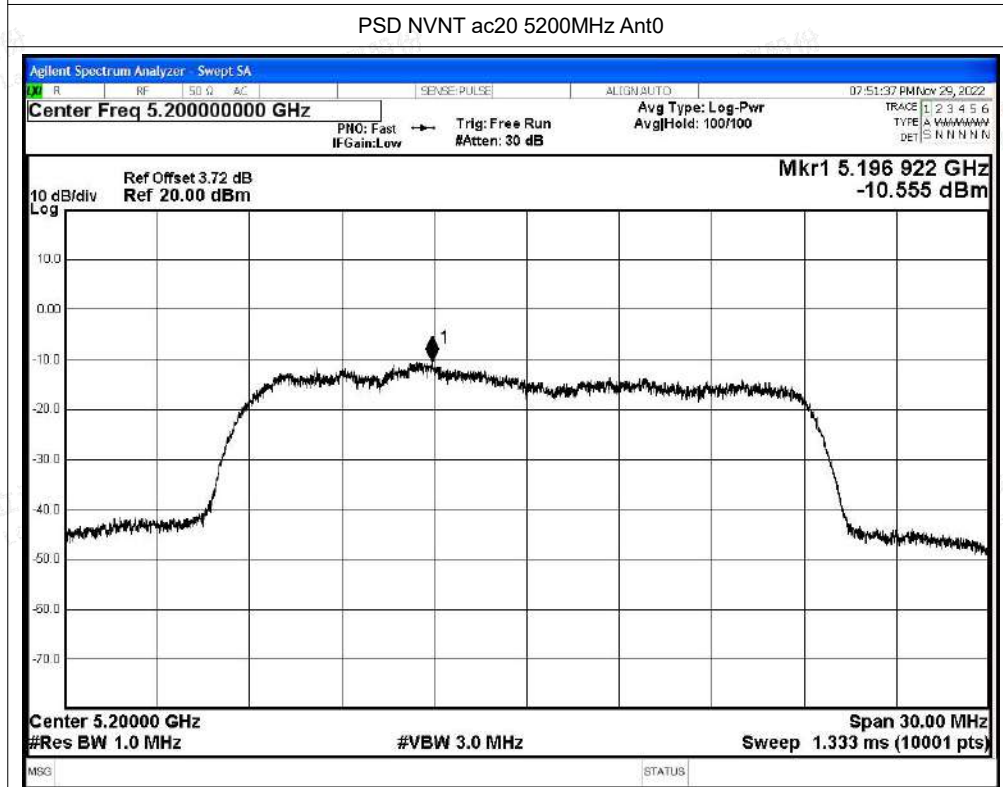
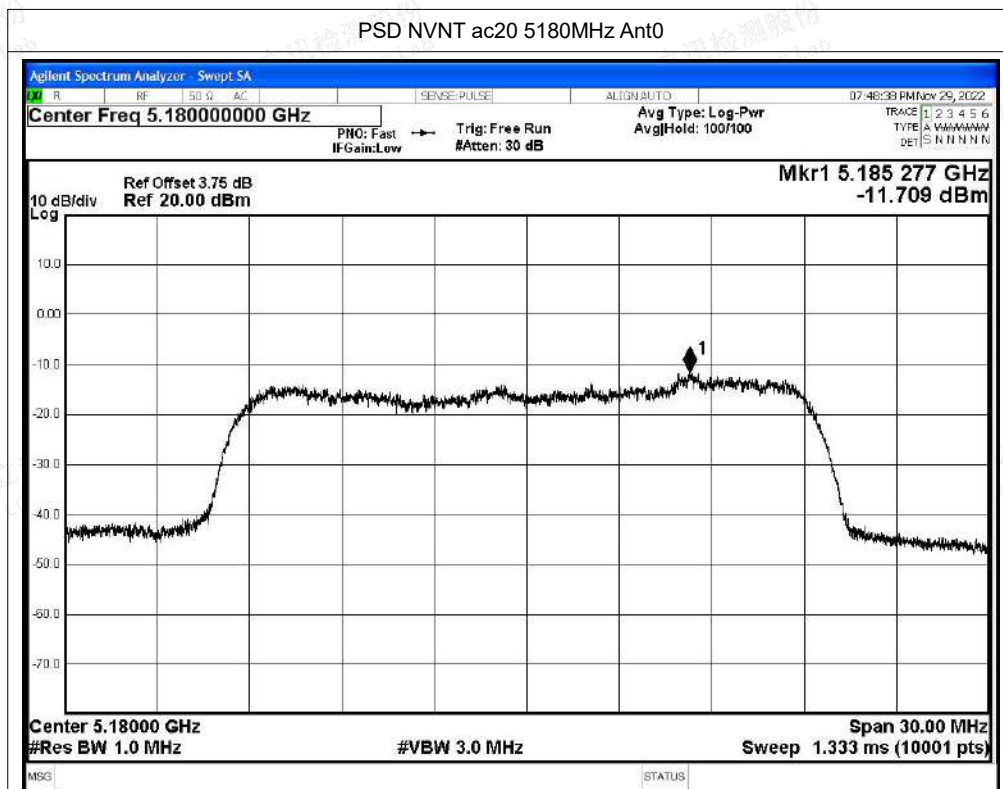


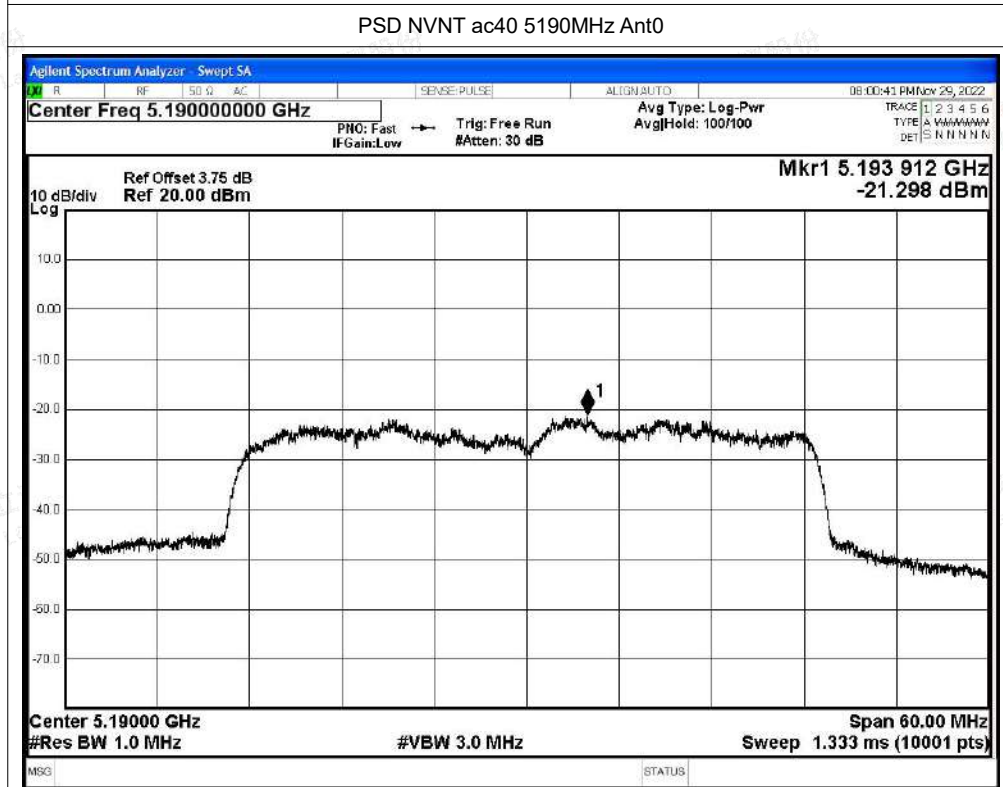
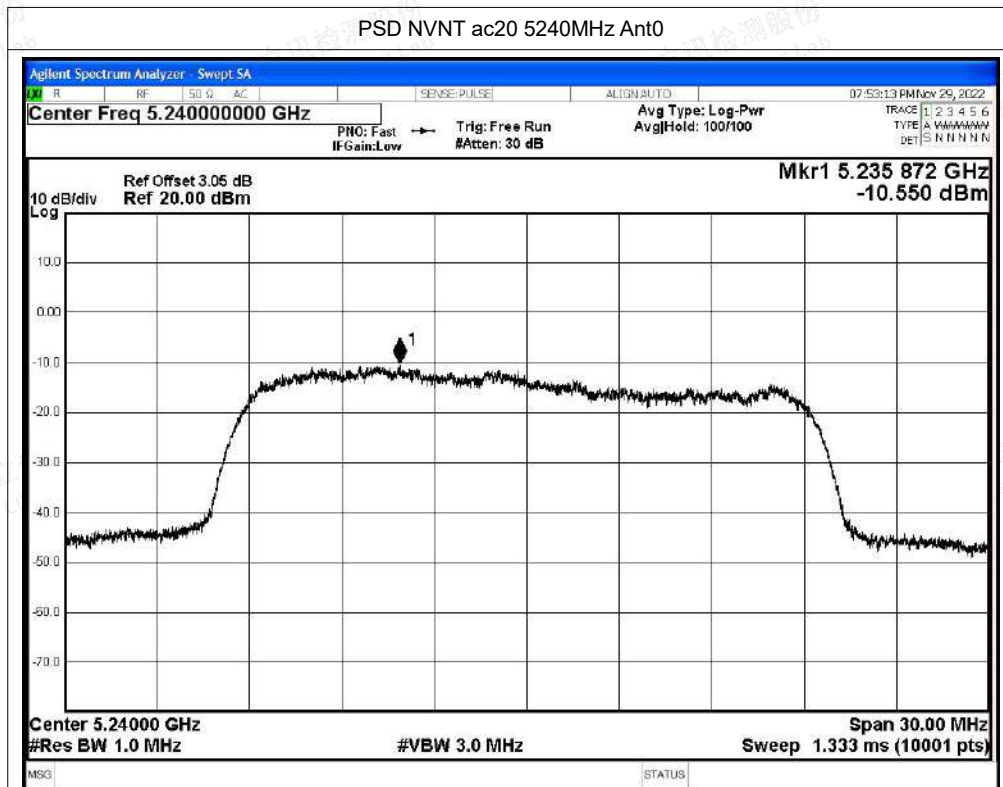
PSD NVNT n20 5180MHz Ant0

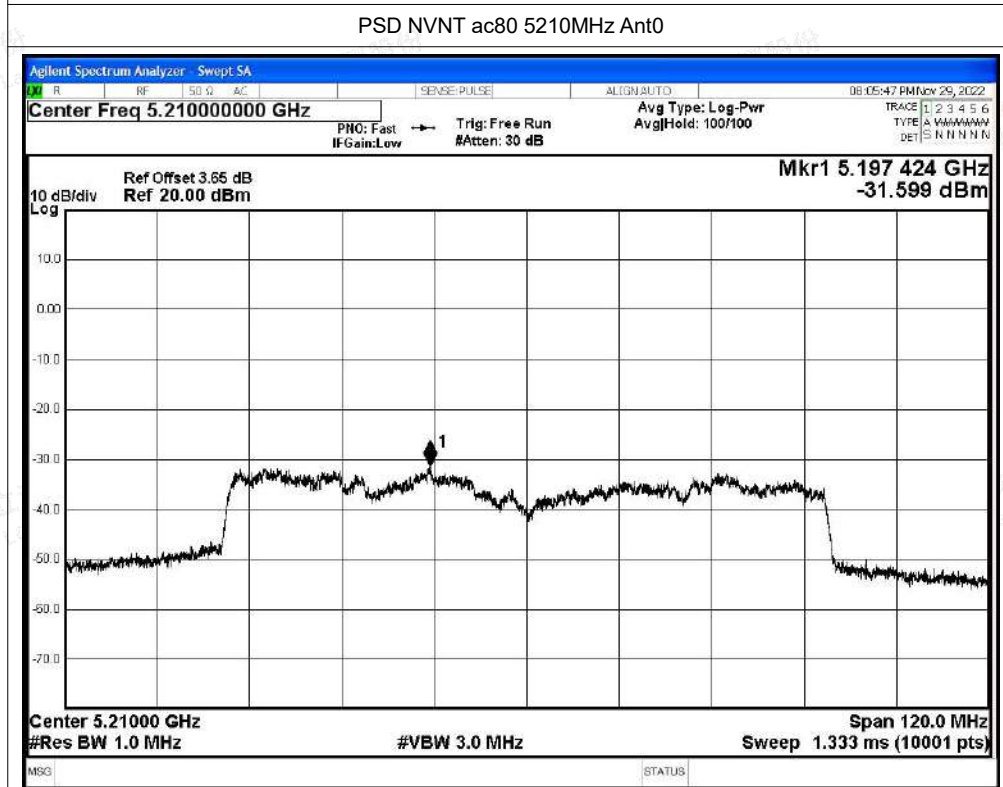
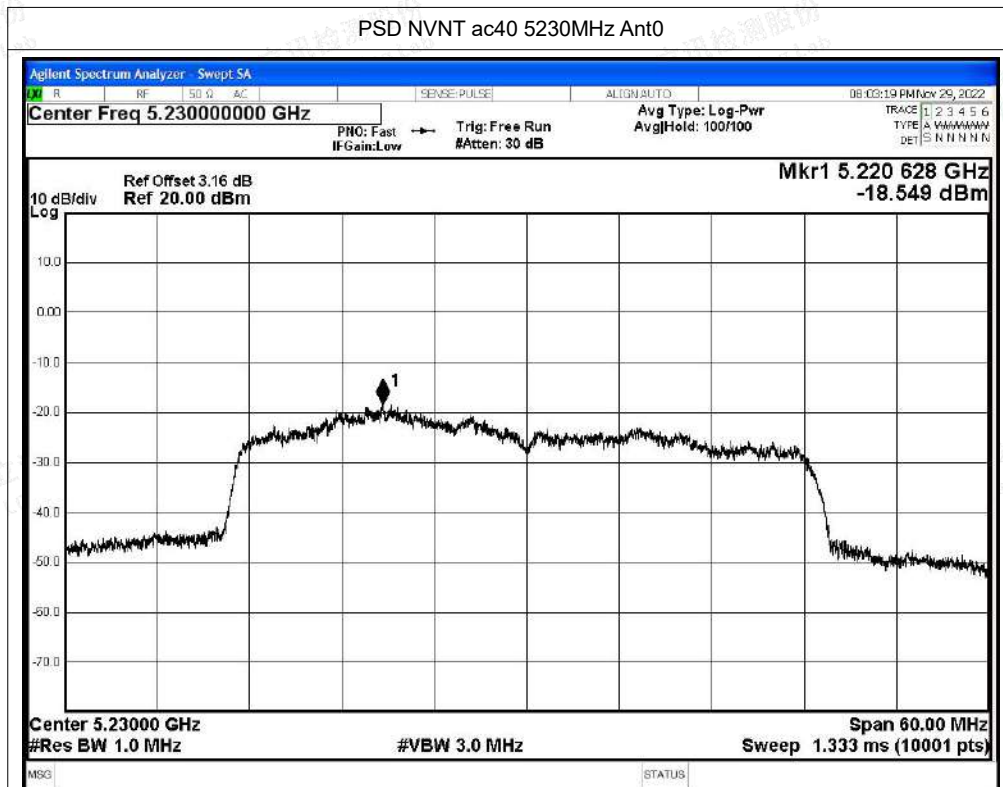








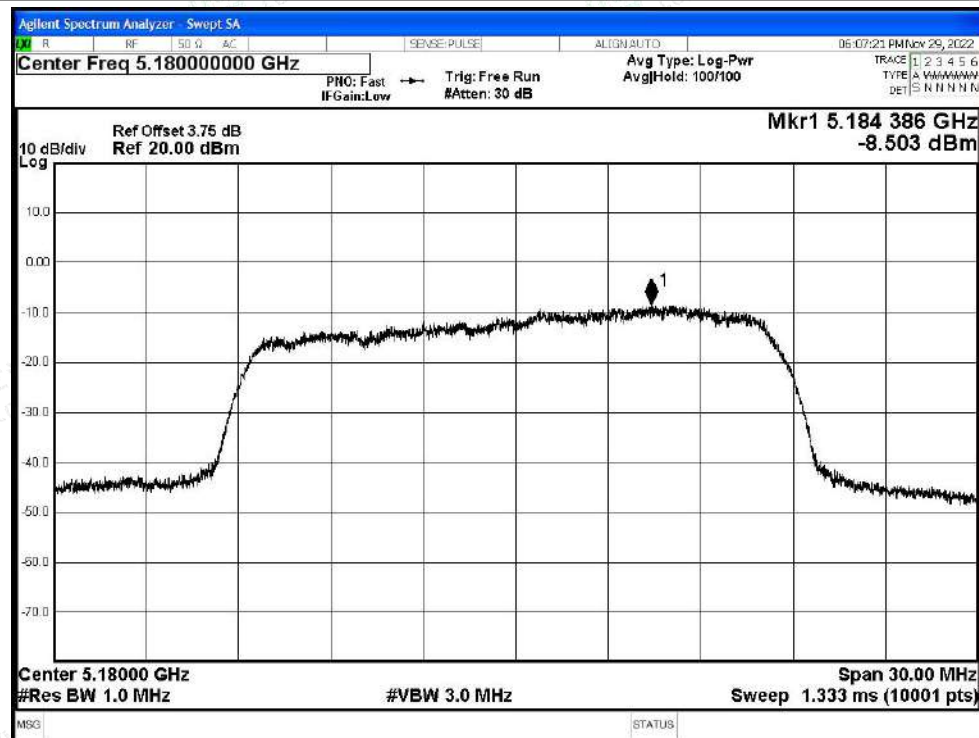




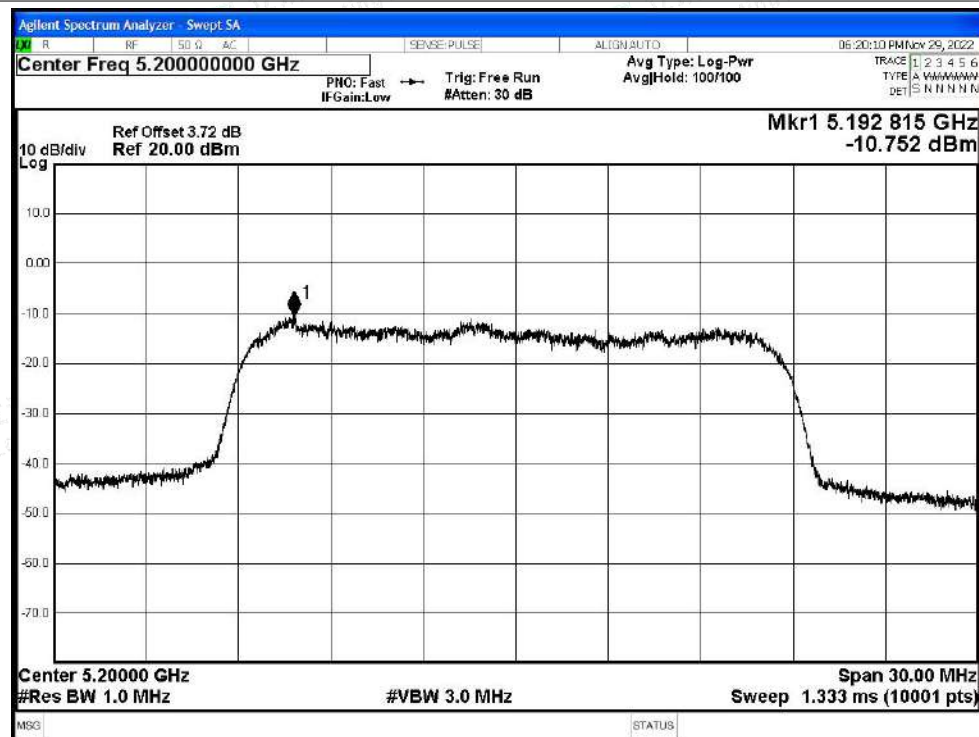


Test Graphs

PSD NVNT a 5180MHz Ant1

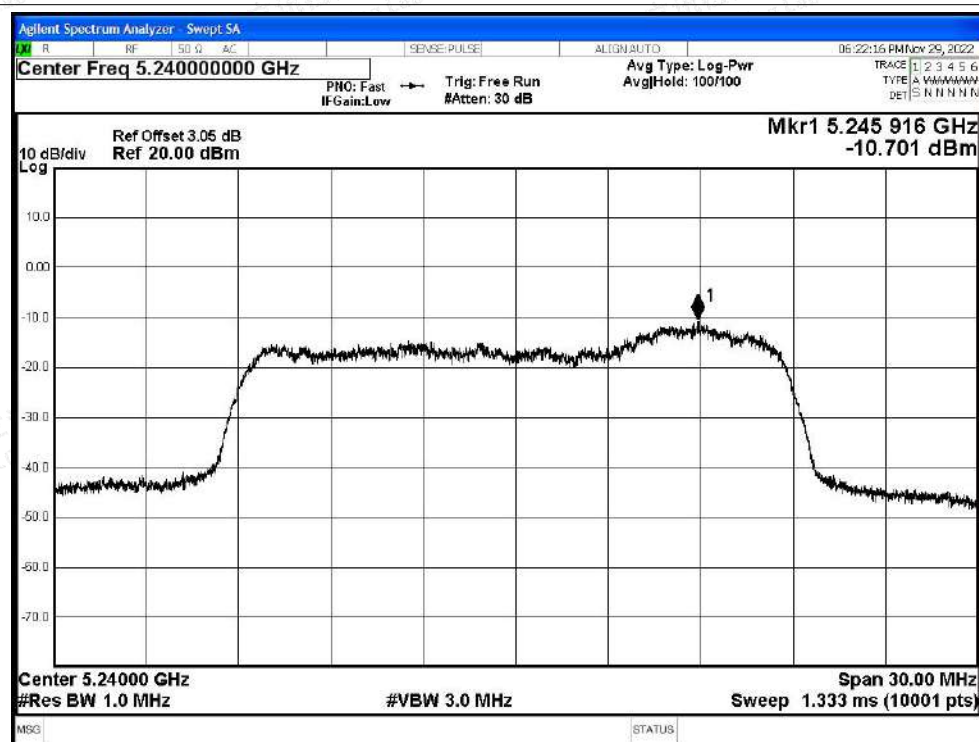


PSD NVNT a 5200MHz Ant1

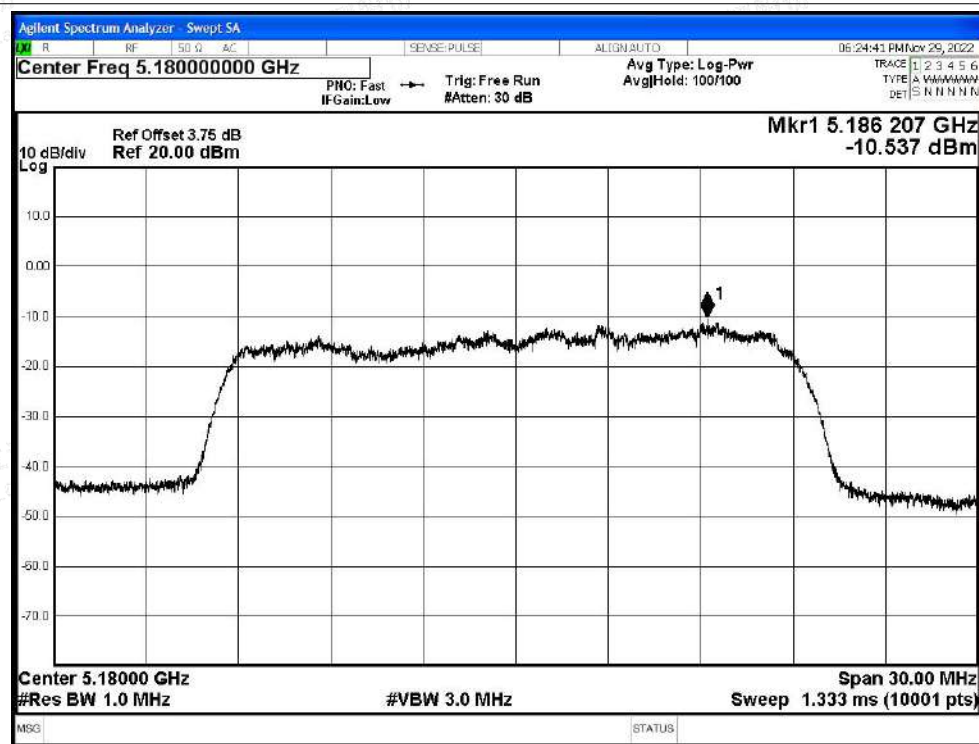


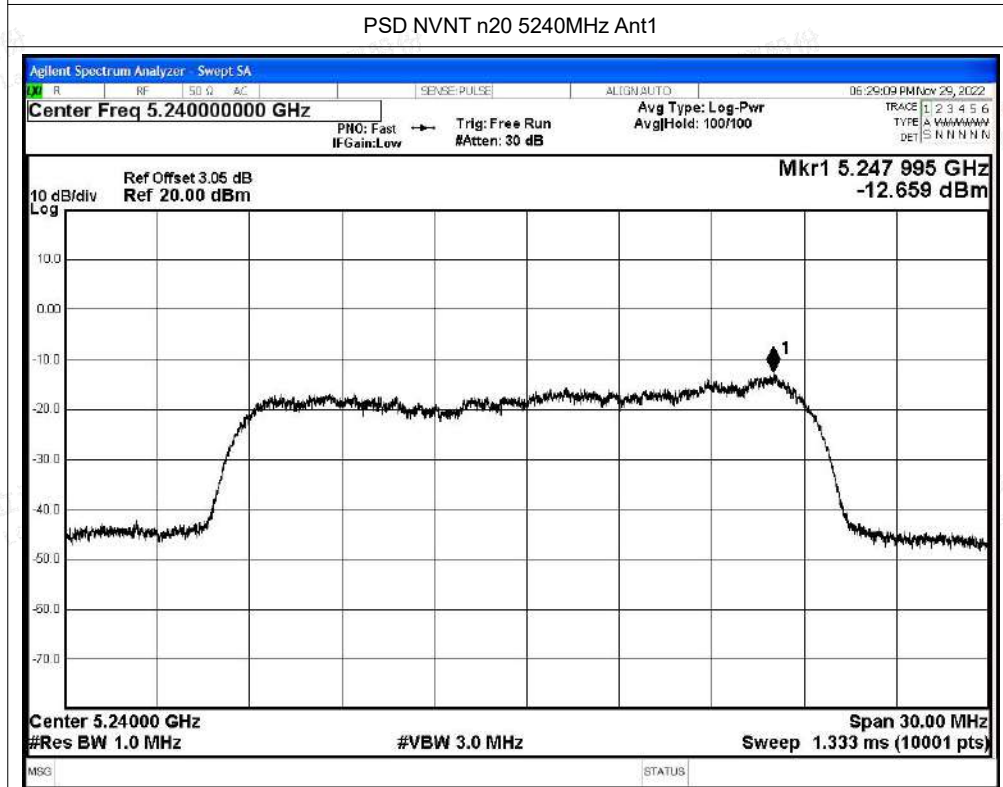
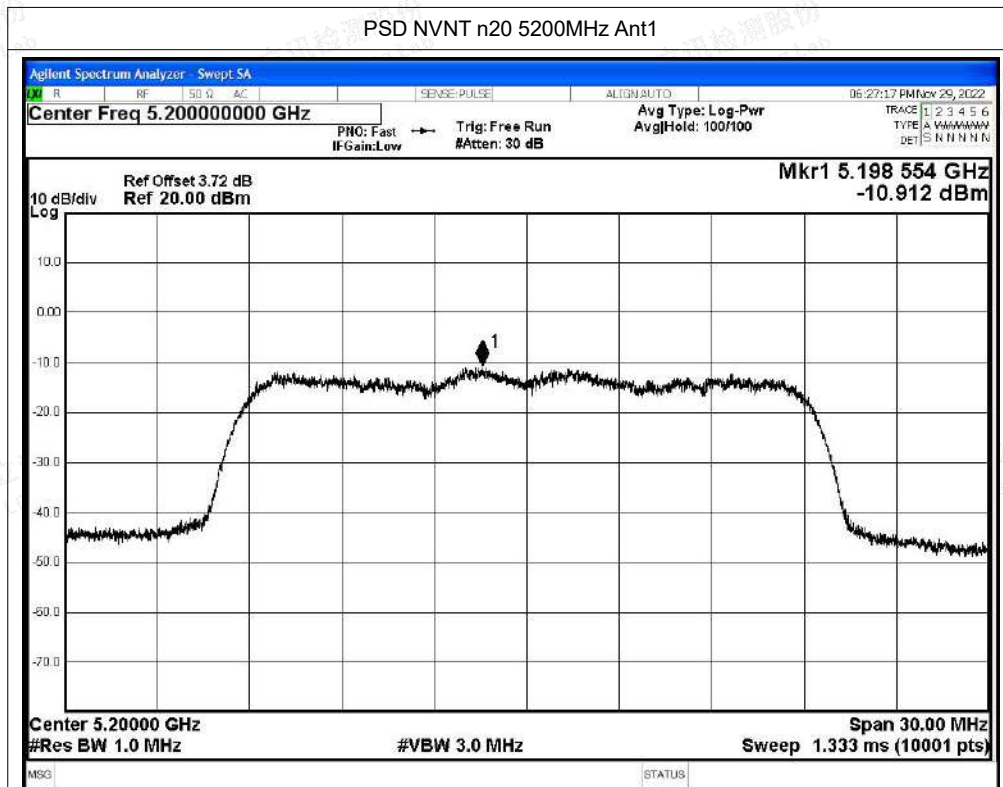


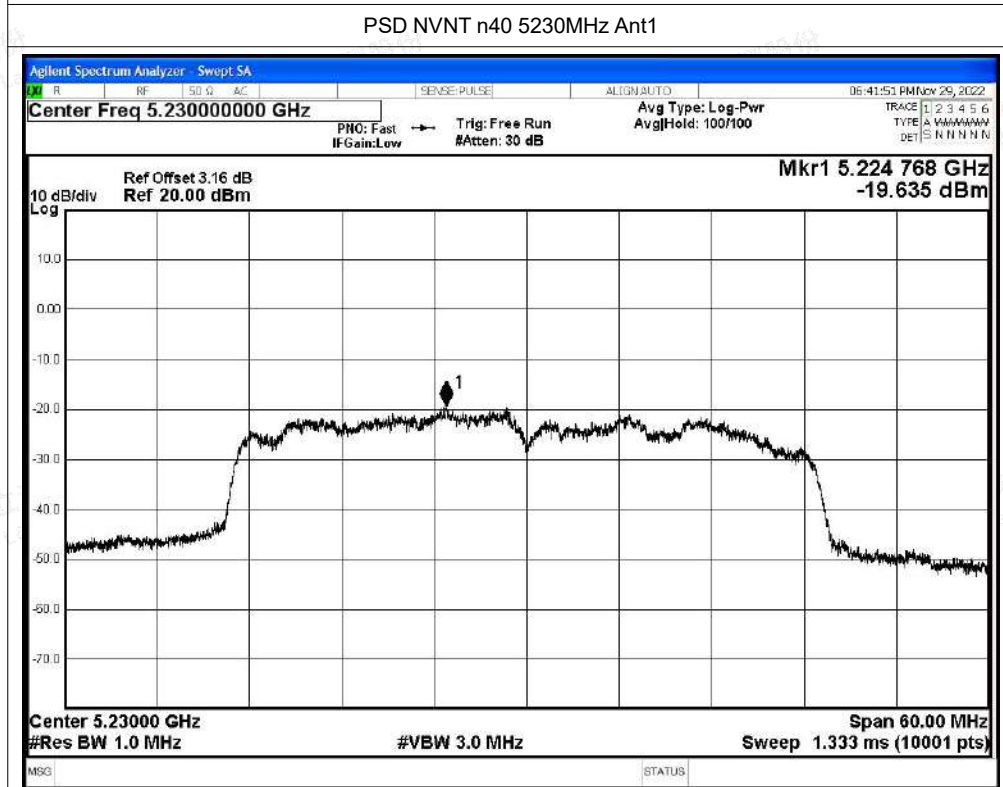
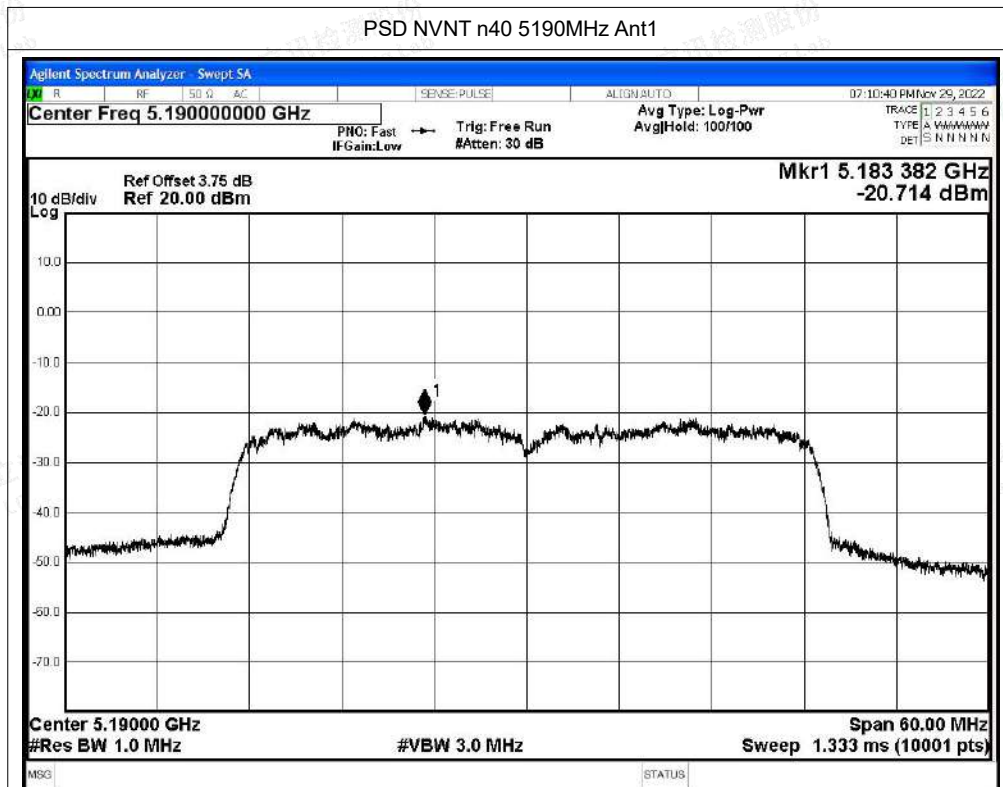
PSD NVNT a 5240MHz Ant1

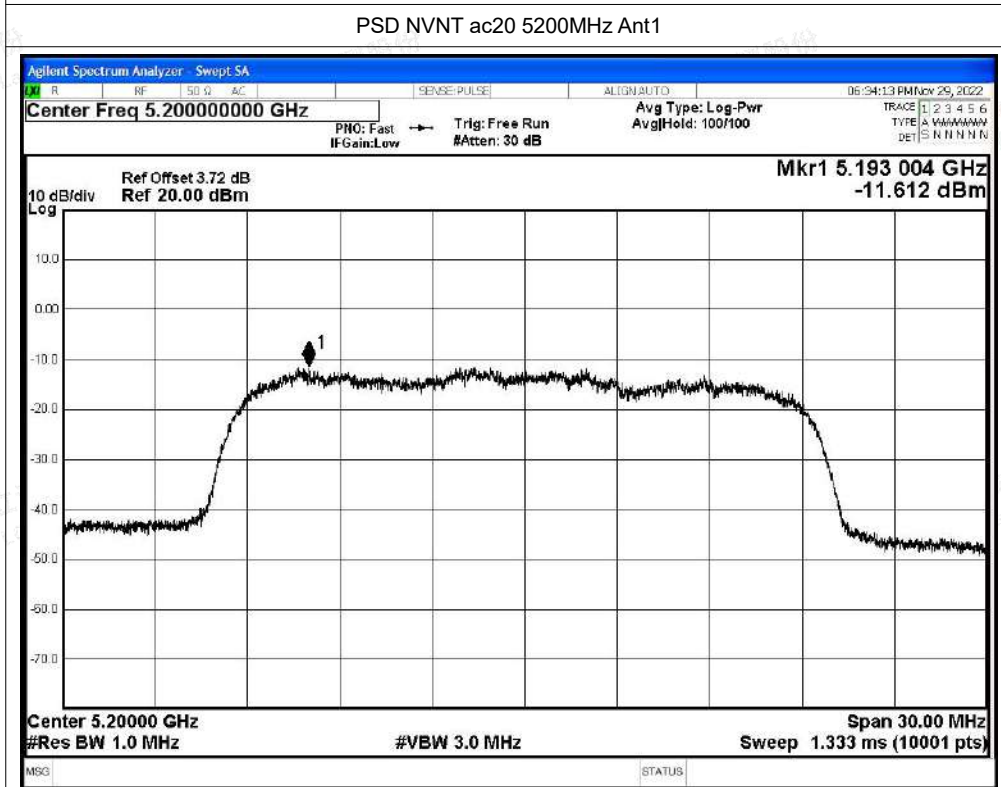
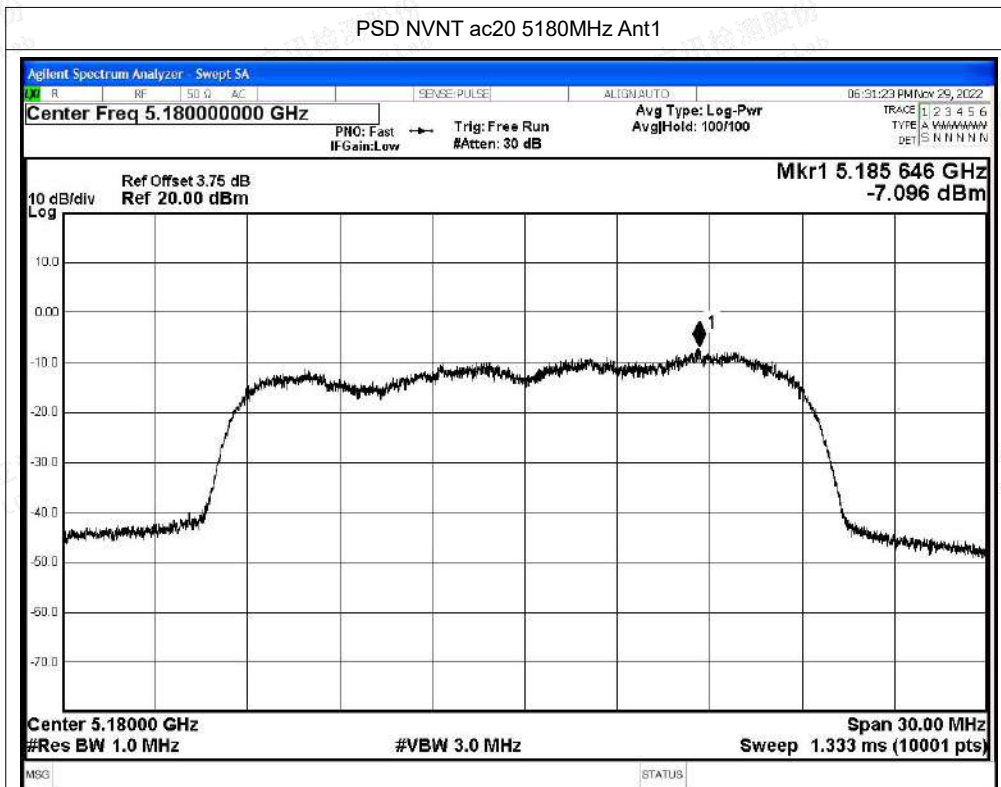


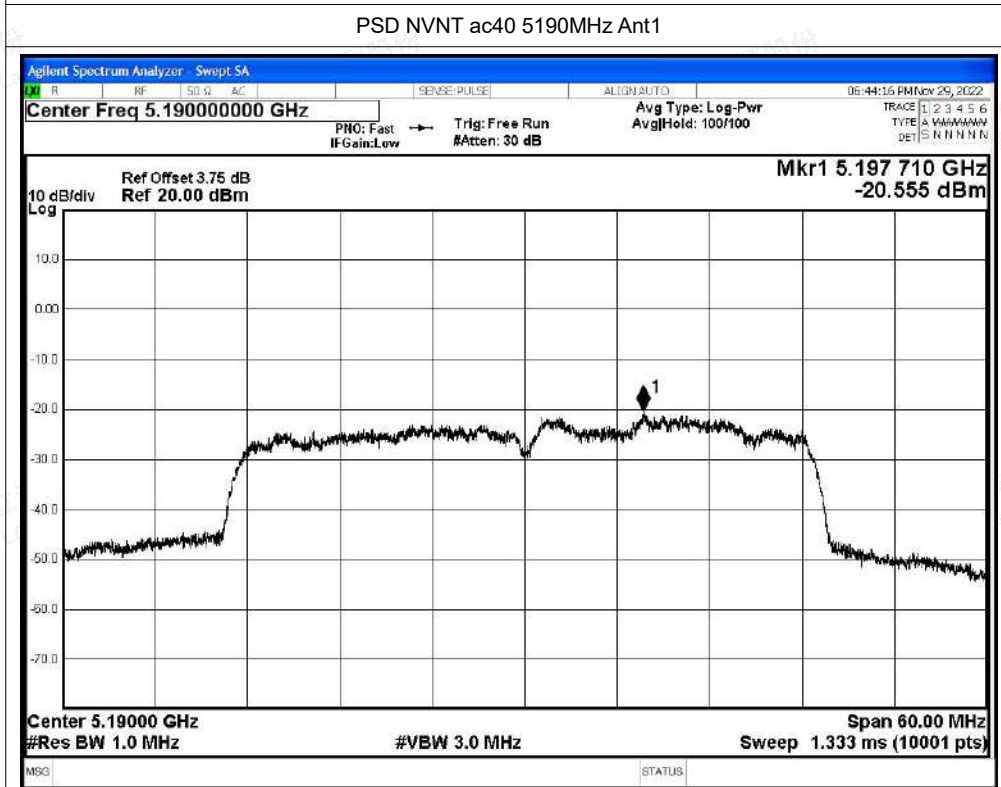
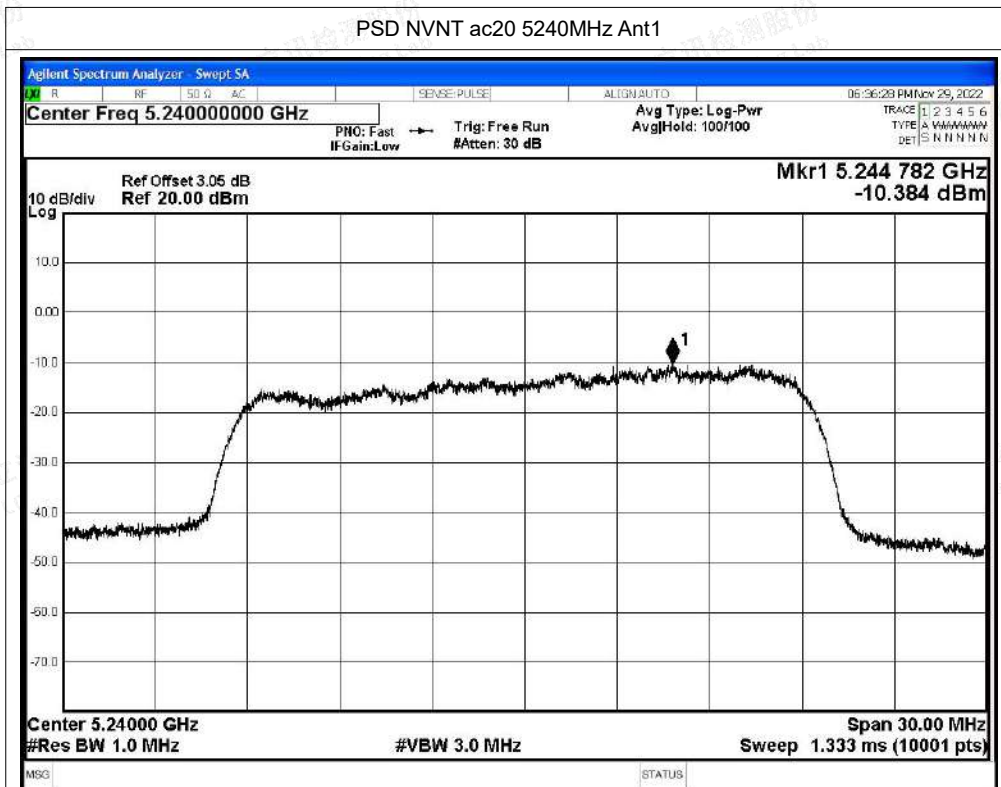
PSD NVNT n20 5180MHz Ant1

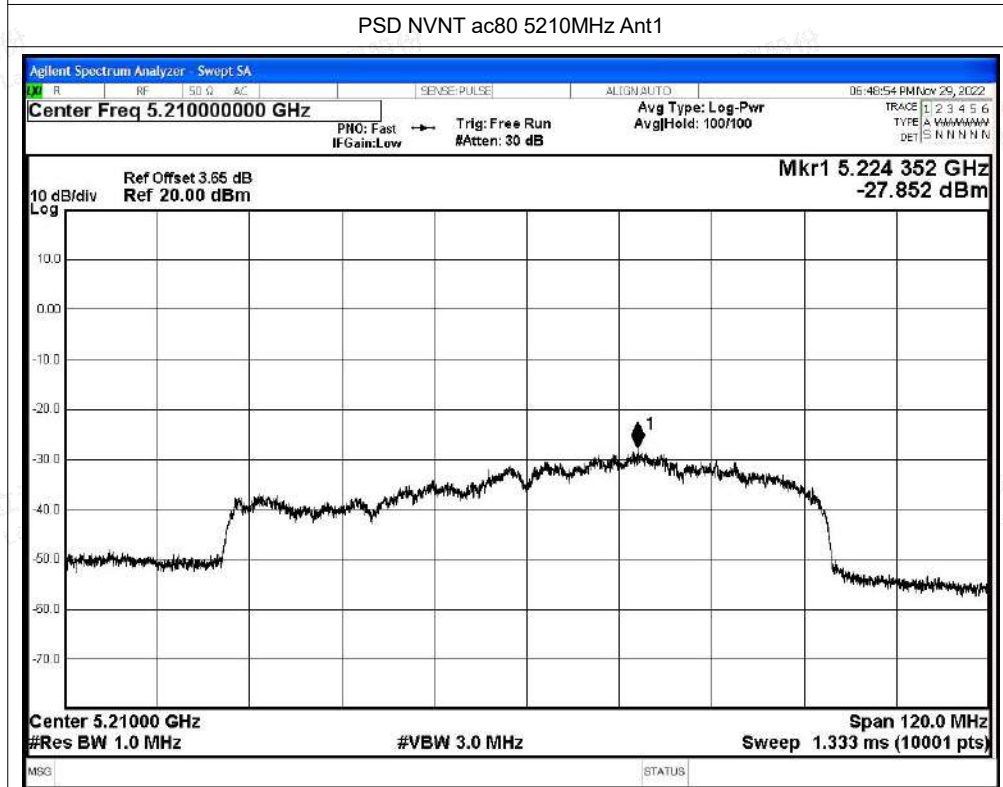
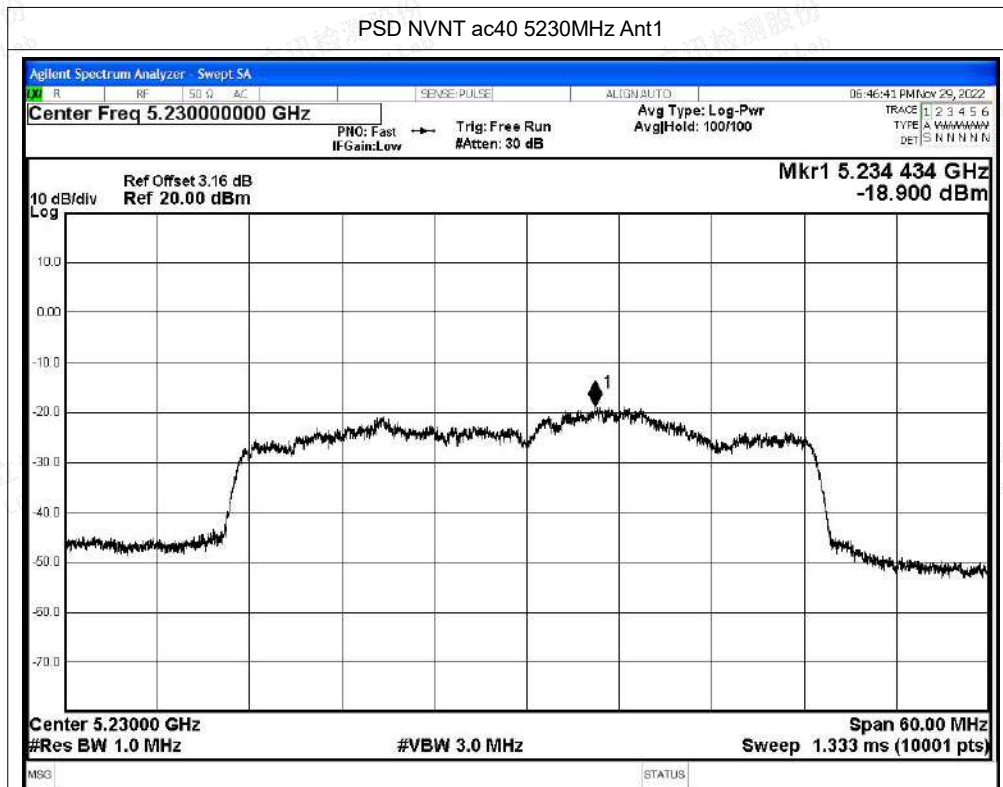














B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-41.6	3	56.63	Peak	68.2	Pass
NVNT	a	5180	4500	-51.81	3	46.42	Average	54	Pass
NVNT	a	5180	5055.1	-37.83	3	60.4	Peak	68.2	Pass
NVNT	a	5180	5053	-50.11	3	48.12	Average	54	Pass
NVNT	a	5180	5150	-40.66	3	57.57	Peak	68.2	Pass
NVNT	a	5180	5150	-50.53	3	47.7	Average	54	Pass
NVNT	a	5240	5350	-42.47	3	55.76	Peak	68.2	Pass
NVNT	a	5240	5350	-51.44	3	46.79	Average	54	Pass
NVNT	a	5240	5428.08	-39.51	3	58.72	Peak	68.2	Pass
NVNT	a	5240	5393.76	-50.73	3	47.5	Average	54	Pass
NVNT	a	5240	5460	-41.58	3	56.65	Peak	68.2	Pass
NVNT	a	5240	5460	-51.65	3	46.58	Average	54	Pass
NVNT	n20-MIMO	5180	4500	-41.92	6.01	59.32	Peak	68.2	Pass
NVNT	n20-MIMO	5180	4500	-51.84	6.01	49.4	Average	54	Pass
NVNT	n20-MIMO	5180	4997	-37.46	6.01	63.78	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5065.6	-50.09	6.01	51.15	Average	54	Pass
NVNT	n20-MIMO	5180	5150	-39.9	6.01	61.34	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5150	-50.37	6.01	50.87	Average	54	Pass
NVNT	n20-MIMO	5240	5350	-42.26	6.01	58.98	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5350	-51.45	6.01	49.79	Average	54	Pass
NVNT	n20-MIMO	5240	5445.36	-38.99	6.01	62.25	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5393.52	-50.86	6.01	50.38	Average	54	Pass
NVNT	n20-MIMO	5240	5460	-42.06	6.01	59.18	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5460	-51.71	6.01	49.53	Average	54	Pass
NVNT	n40-MIMO	5190	4500	-43.22	6.01	58.02	Peak	68.2	Pass
NVNT	n40-MIMO	5190	4500	-51.51	6.01	49.73	Average	54	Pass
NVNT	n40-MIMO	5190	4793.46	-38.18	6.01	63.06	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5097.14	-49.57	6.01	51.67	Average	54	Pass
NVNT	n40-MIMO	5190	5150	-41.07	6.01	60.17	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5150	-50.06	6.01	51.18	Average	54	Pass
NVNT	n40-MIMO	5230	5350	-41.17	6.01	60.07	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5350	-50.89	6.01	50.35	Average	54	Pass
NVNT	n40-MIMO	5230	5377.92	-38.94	6.01	62.3	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5386.56	-49.98	6.01	51.26	Average	54	Pass
NVNT	n40-MIMO	5230	5460	-41.75	6.01	59.49	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5460	-50.84	6.01	50.4	Average	54	Pass
NVNT	ac20-MIMO	5180	4500	-41.51	6.01	59.73	Peak	68.2	Pass





NVNT	ac20-MIMO	5180	4500	-51.85	6.01	49.39	Average	54	Pass
NVNT	ac20-MIMO	5180	5140.5	-37.62	6.01	63.62	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5092.9	-50.1	6.01	51.14	Average	54	Pass
NVNT	ac20-MIMO	5180	5150	-41.54	6.01	59.7	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5150	-50.54	6.01	50.7	Average	54	Pass
NVNT	ac20-MIMO	5240	5350	-40.72	6.01	60.52	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5350	-51.28	6.01	49.96	Average	54	Pass
NVNT	ac20-MIMO	5240	5401.2	-38.02	6.01	63.22	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5394.48	-50.8	6.01	50.44	Average	54	Pass
NVNT	ac20-MIMO	5240	5460	-43.83	6.01	57.41	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5460	-51.62	6.01	49.62	Average	54	Pass
NVNT	ac40-MIMO	5190	4500	-42.51	6.01	58.73	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	4500	-51.58	6.01	49.66	Average	54	Pass
NVNT	ac40-MIMO	5190	5032.9	-37.89	6.01	63.35	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5077.43	-49.83	6.01	51.41	Average	54	Pass
NVNT	ac40-MIMO	5190	5150	-41.75	6.01	59.49	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5150	-49.96	6.01	51.28	Average	54	Pass
NVNT	ac40-MIMO	5230	5350	-42.49	6.01	58.75	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5350	-50.92	6.01	50.32	Average	54	Pass
NVNT	ac40-MIMO	5230	5357.13	-38.18	6.01	63.06	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5382.24	-50.16	6.01	51.08	Average	54	Pass
NVNT	ac40-MIMO	5230	5460	-42.62	6.01	58.62	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5460	-50.84	6.01	50.4	Average	54	Pass
NVNT	ac80-MIMO	5210	5350	-41.26	6.01	59.98	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5350	-50.78	6.01	50.46	Average	54	Pass
NVNT	ac80-MIMO	5210	5450.43	-38.11	6.01	63.13	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5378.16	-50.09	6.01	51.15	Average	54	Pass
NVNT	ac80-MIMO	5210	5460	-40.7	6.01	60.54	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5460	-50.55	6.01	50.69	Average	54	Pass
NVNT	ac80-MIMO	5210	4500	-43.08	6.01	58.16	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	4500	-51.35	6.01	49.89	Average	54	Pass
NVNT	ac80-MIMO	5210	5051.42	-38.32	6.01	62.92	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5090.13	-49.41	6.01	51.83	Average	54	Pass
NVNT	ac80-MIMO	5210	5150	-40.53	6.01	60.71	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5150	-49.84	6.01	51.4	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna data.

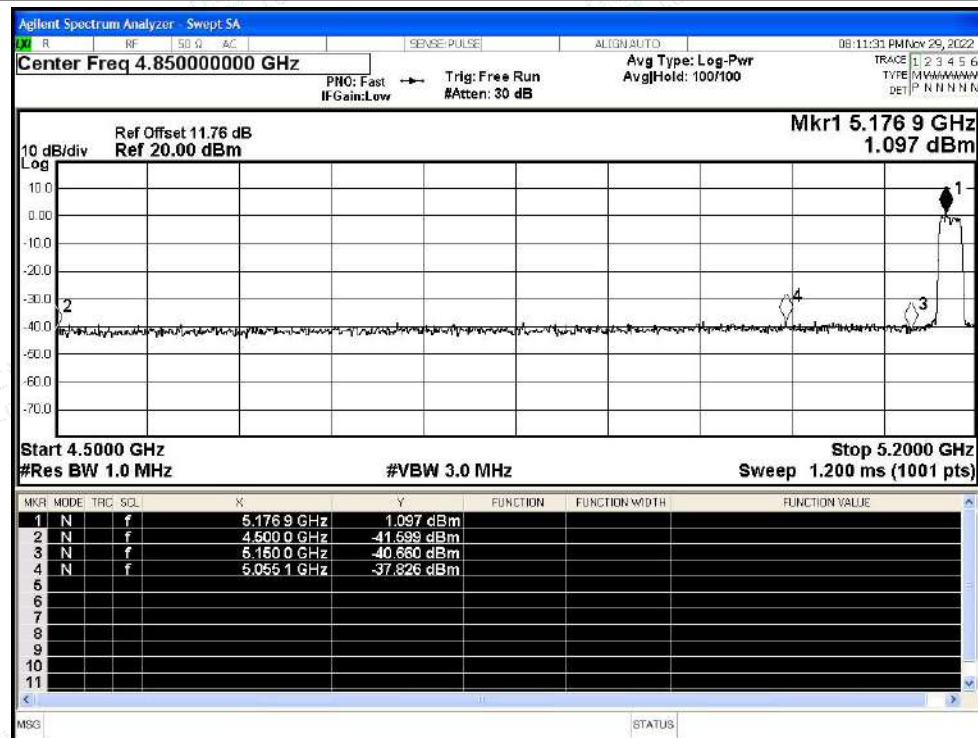


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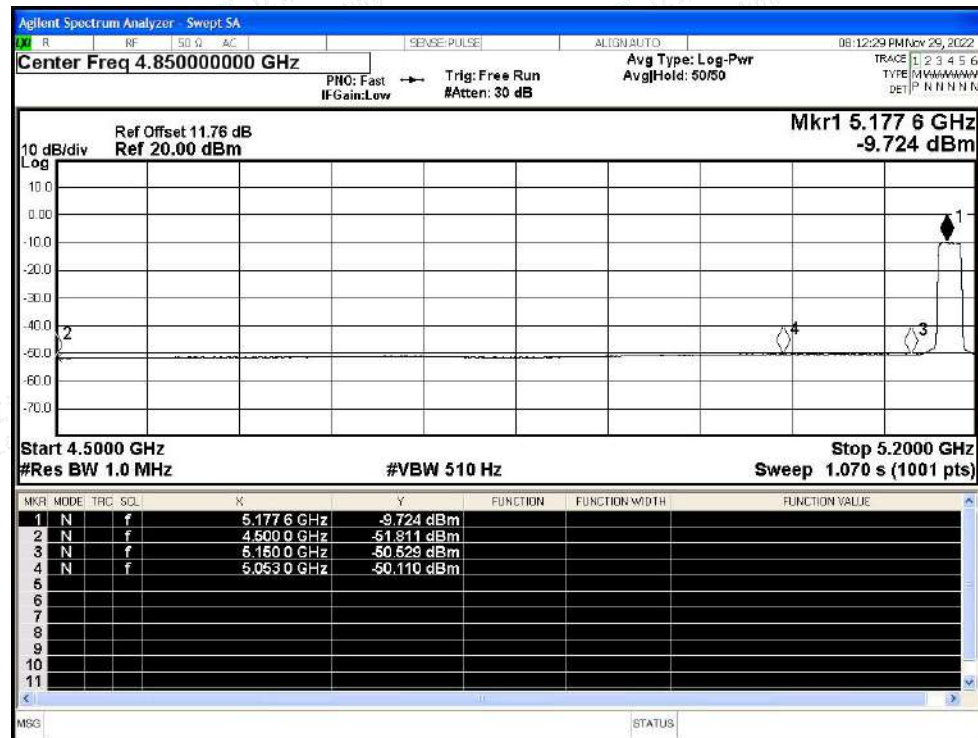


Test Graphs

Restrict Band NVNT a 5180MHz Peak

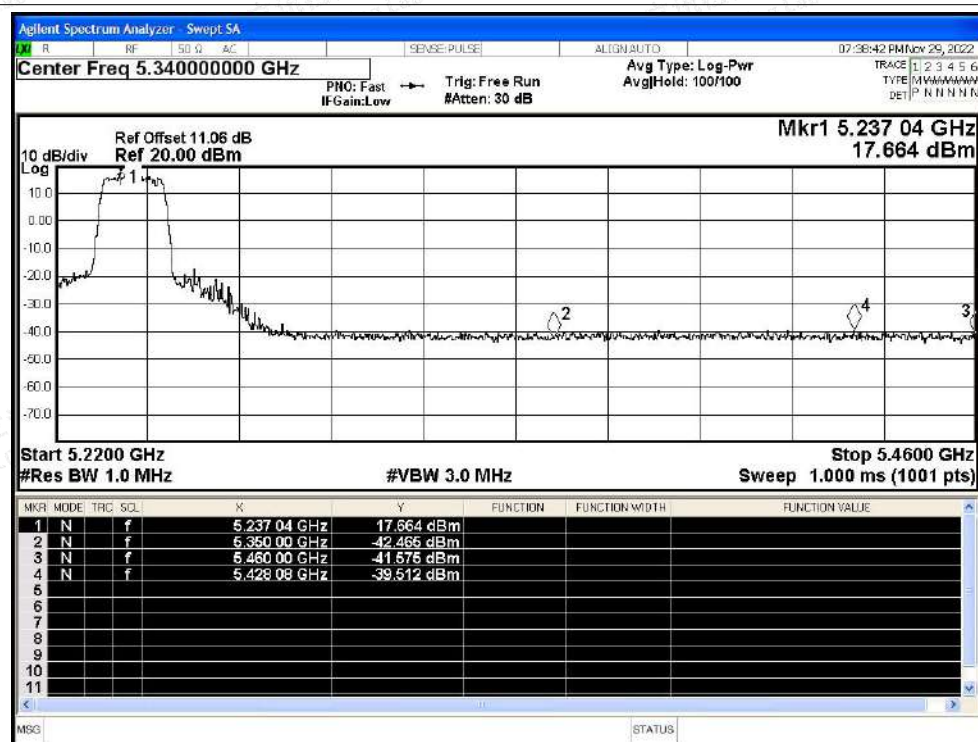


Restrict Band NVNT a 5180MHz Average

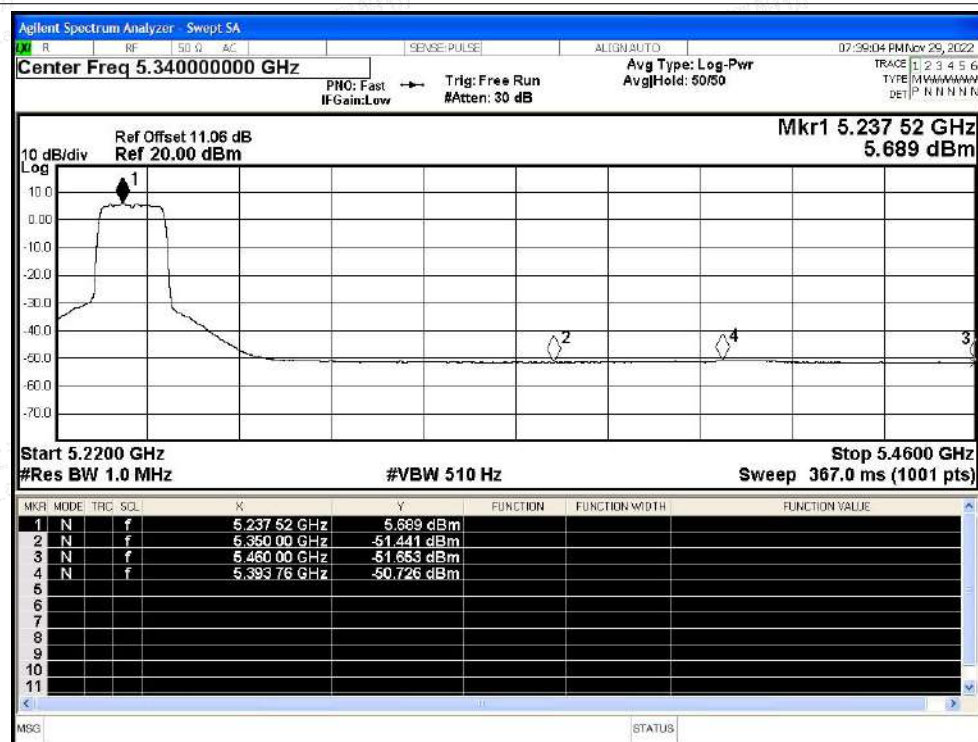




Restrict Band NVNT a 5240MHz Peak



Restrict Band NVNT a 5240MHz Average



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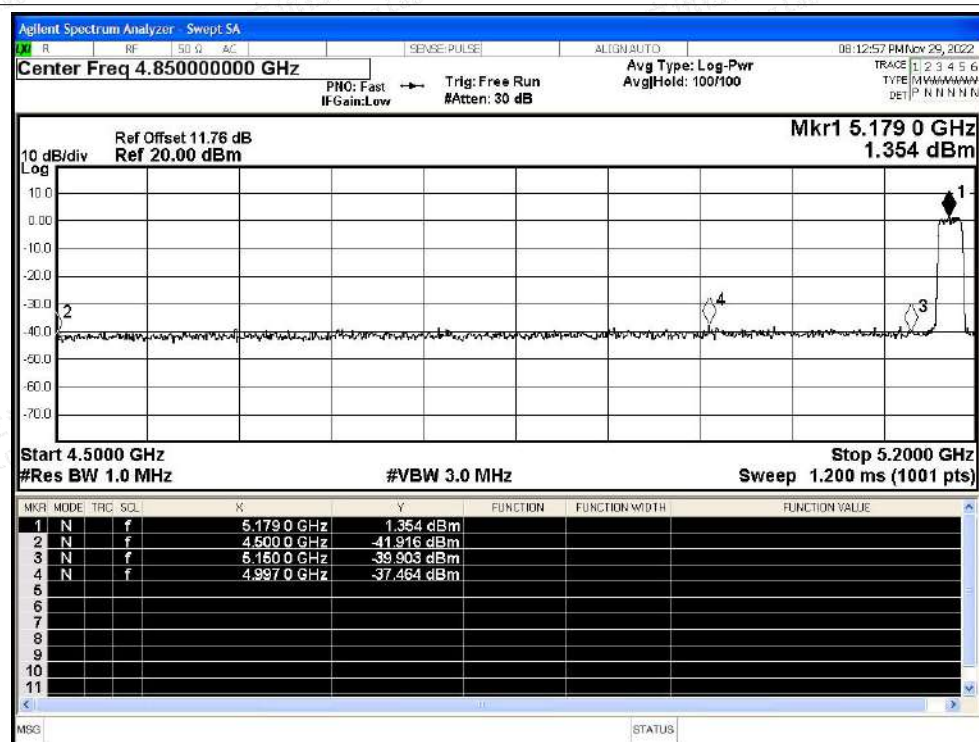
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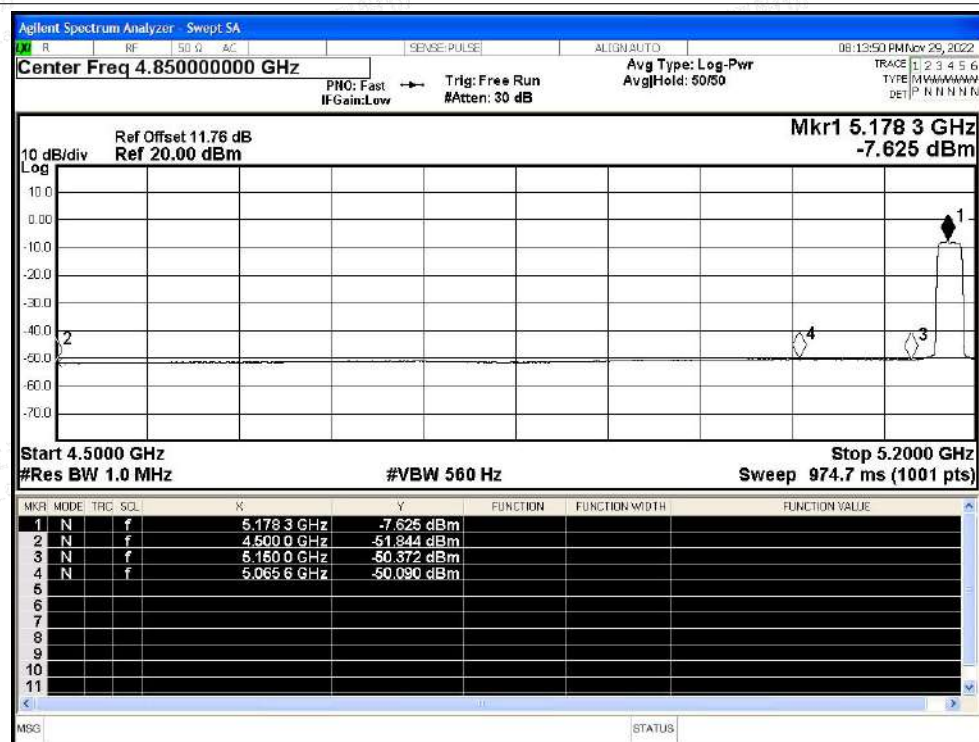
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Restrict Band NVNT n20 5180MHz Peak



Restrict Band NVNT n20 5180MHz Average

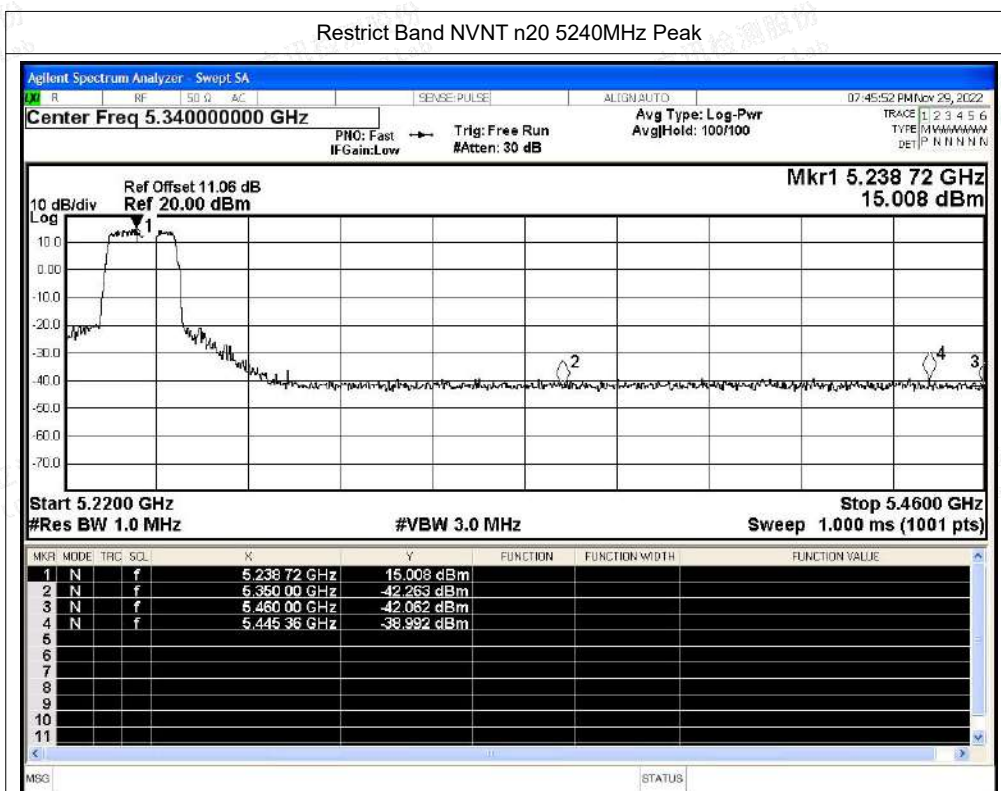


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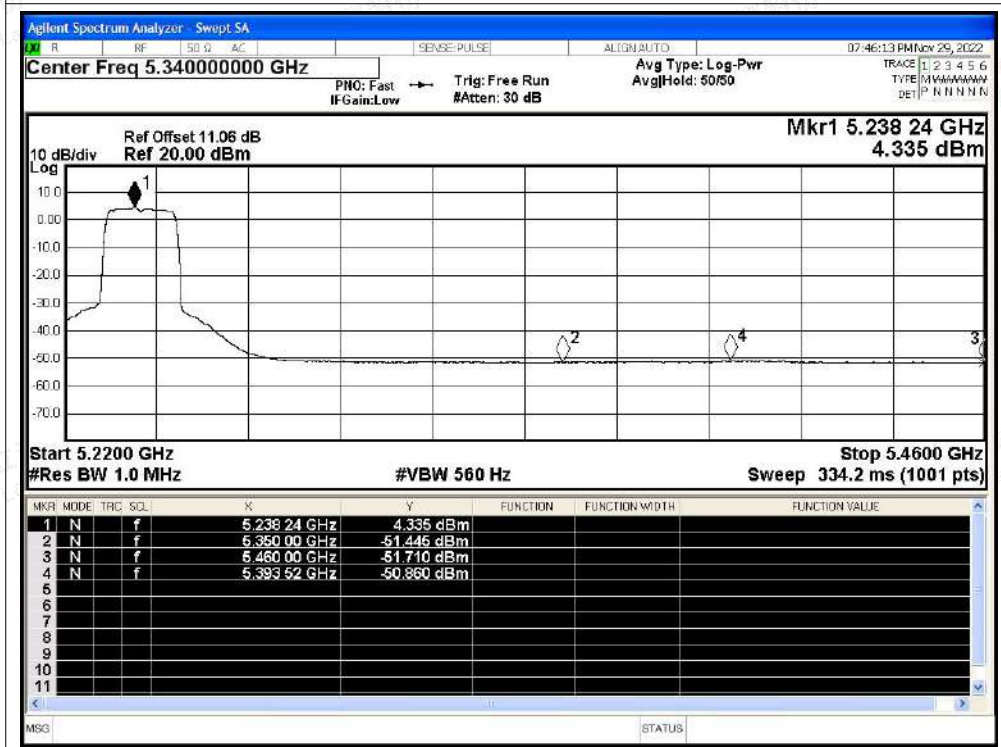
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Restrict Band NVNT n20 5240MHz Average



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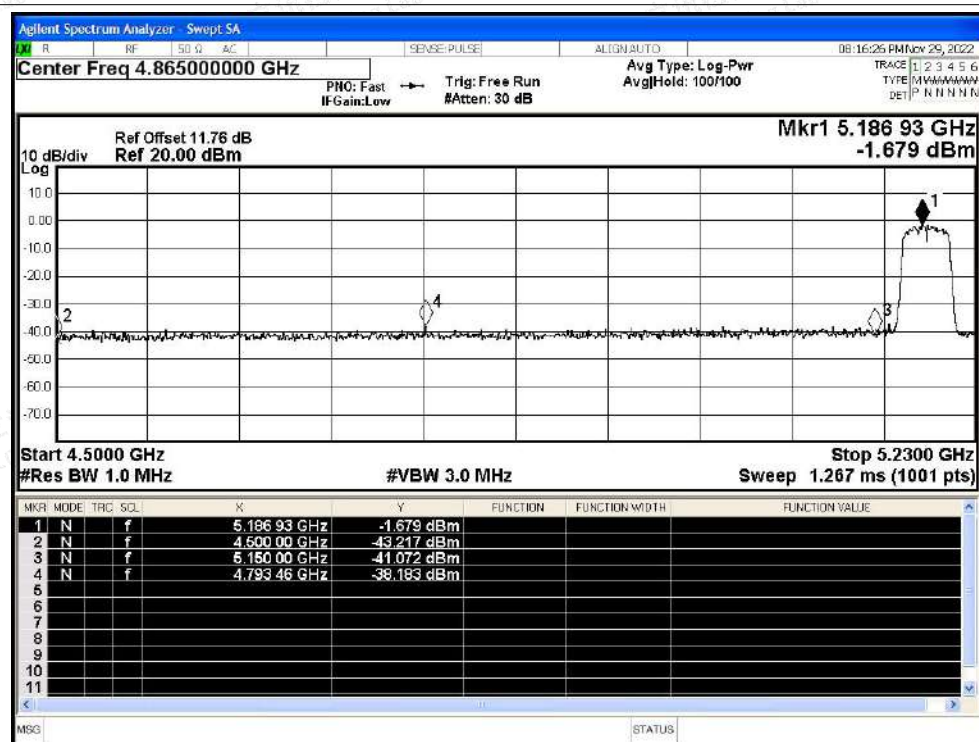
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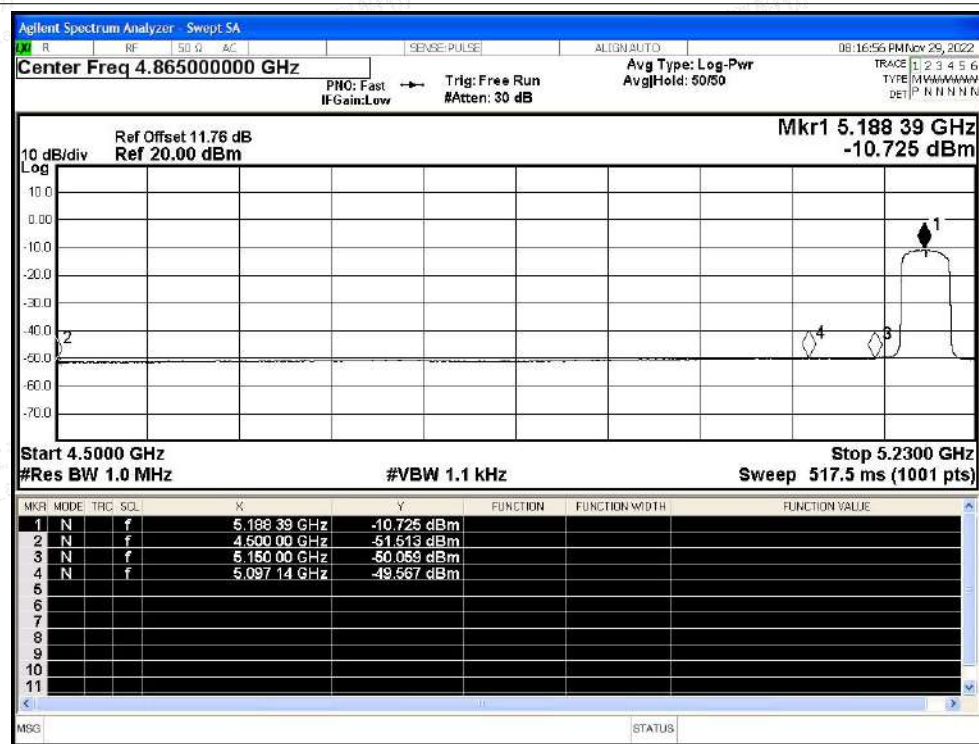
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Restrict Band NVNT n40 5190MHz Peak



Restrict Band NVNT n40 5190MHz Average



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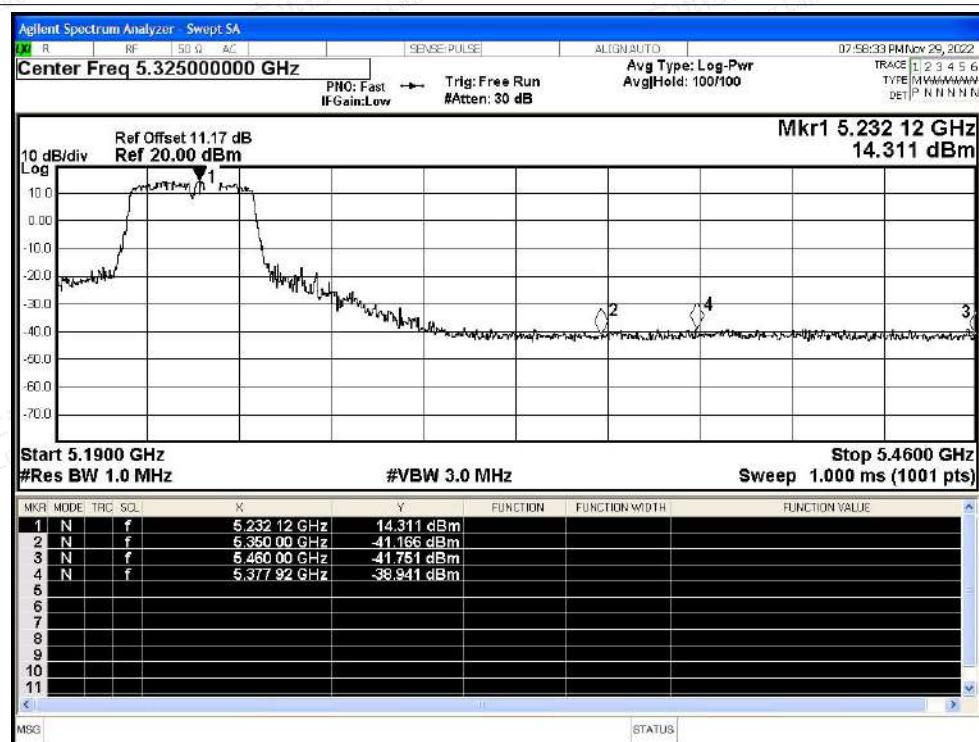
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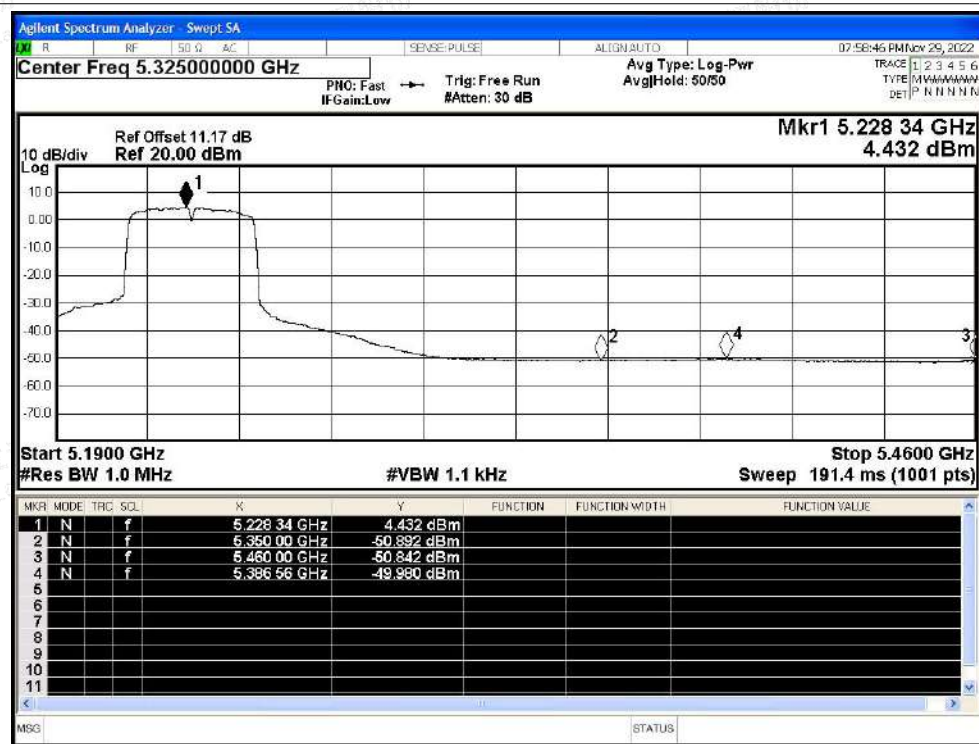
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Restrict Band NVNT n40 5230MHz Peak



Restrict Band NVNT n40 5230MHz Average



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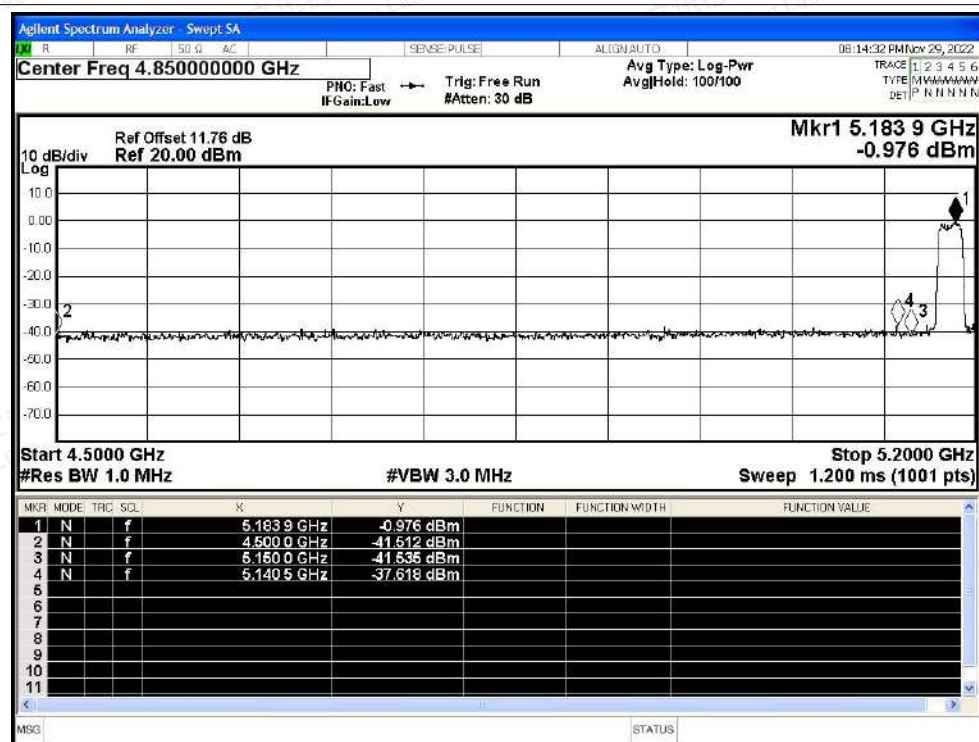
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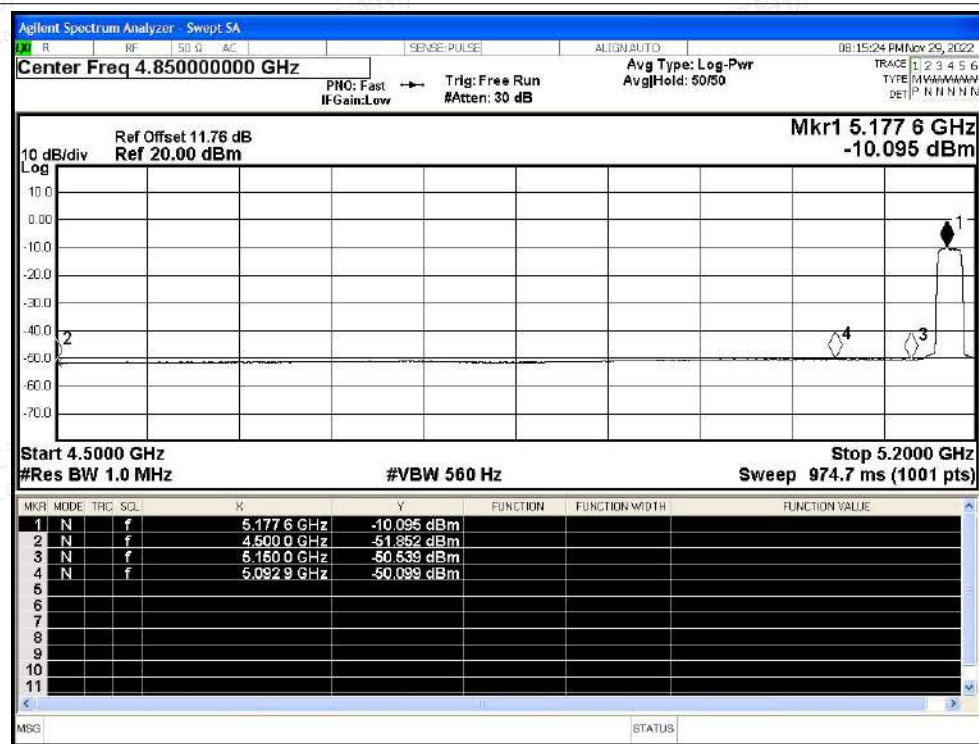
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Restrict Band NVNT ac20 5180MHz Peak



Restrict Band NVNT ac20 5180MHz Average

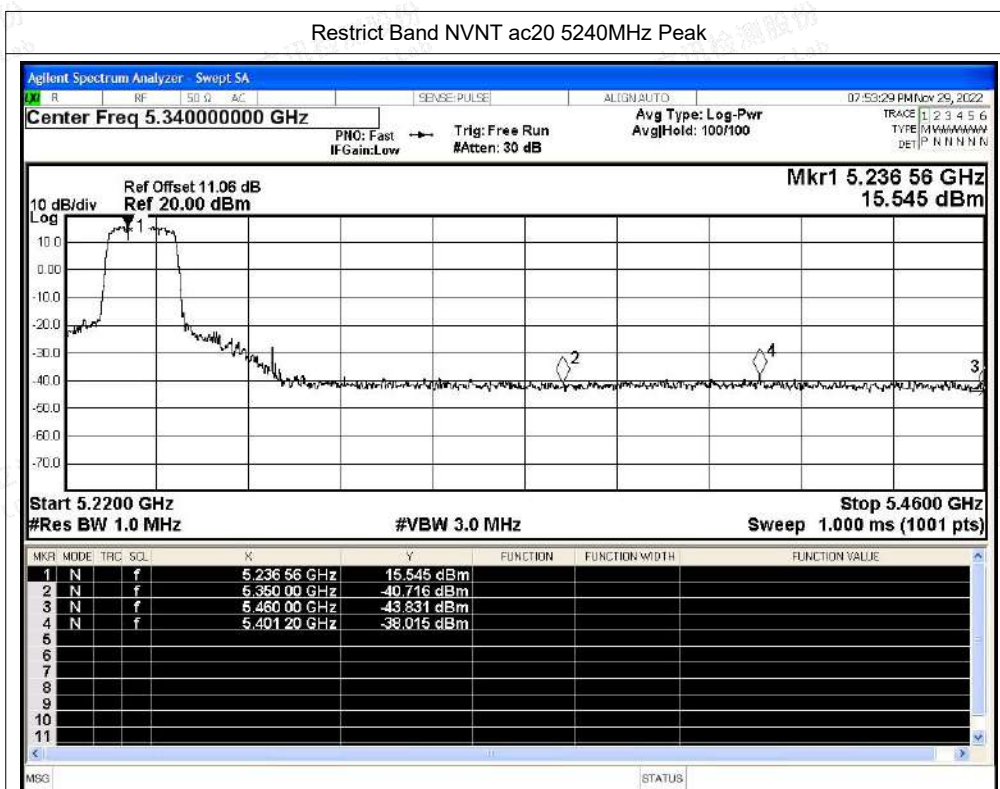


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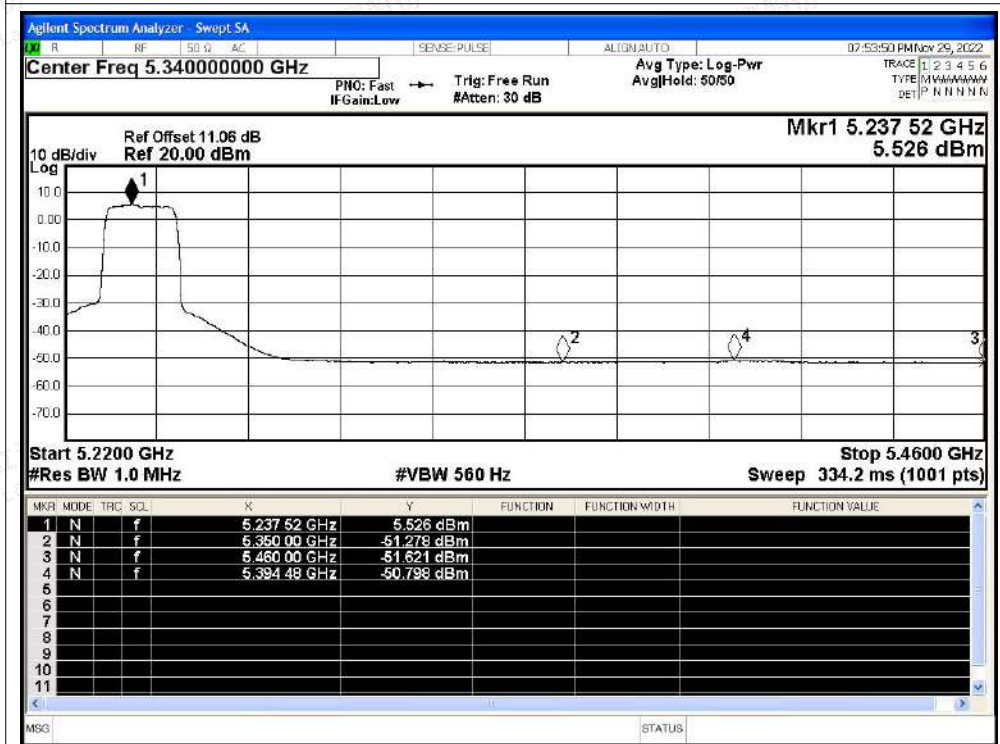
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Restrict Band NVNT ac20 5240MHz Average



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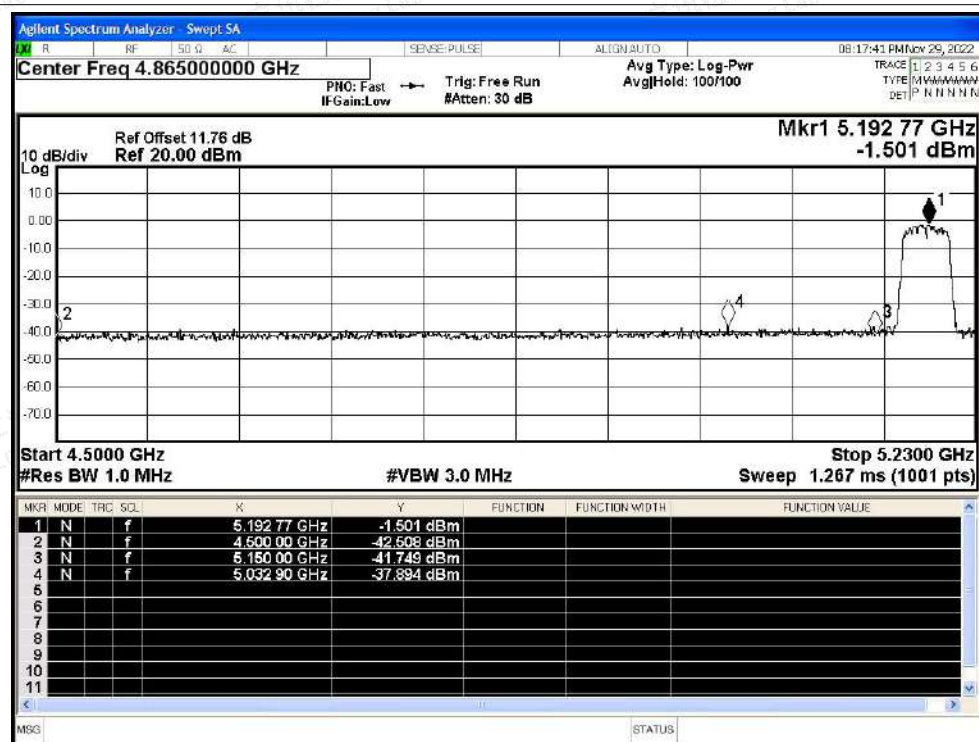
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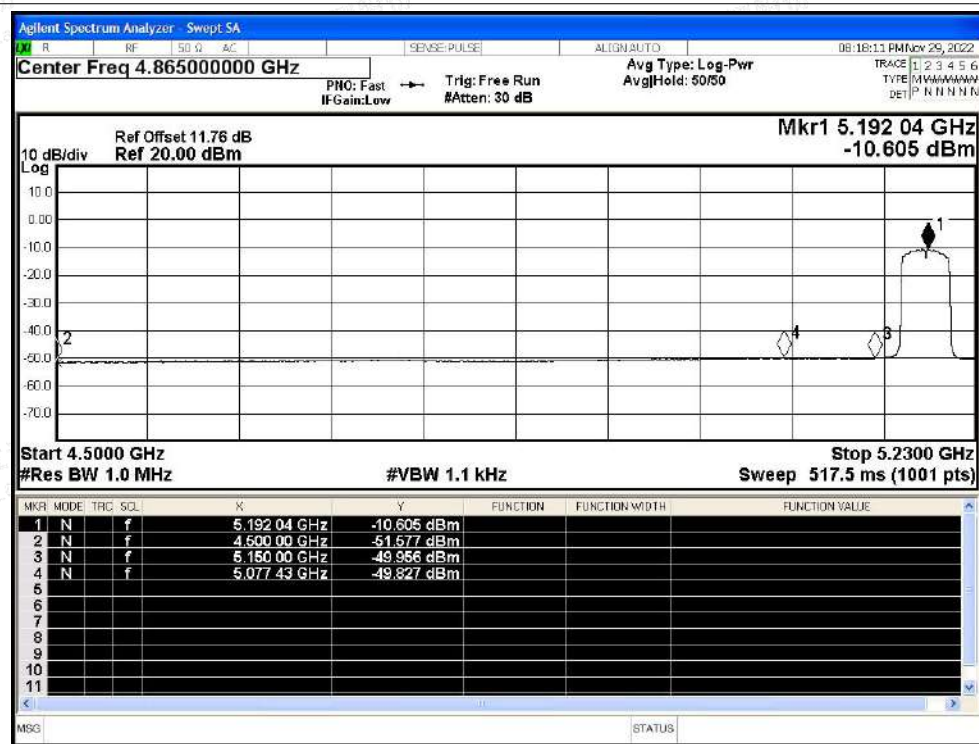
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Restrict Band NVNT ac40 5190MHz Peak



Restrict Band NVNT ac40 5190MHz Average



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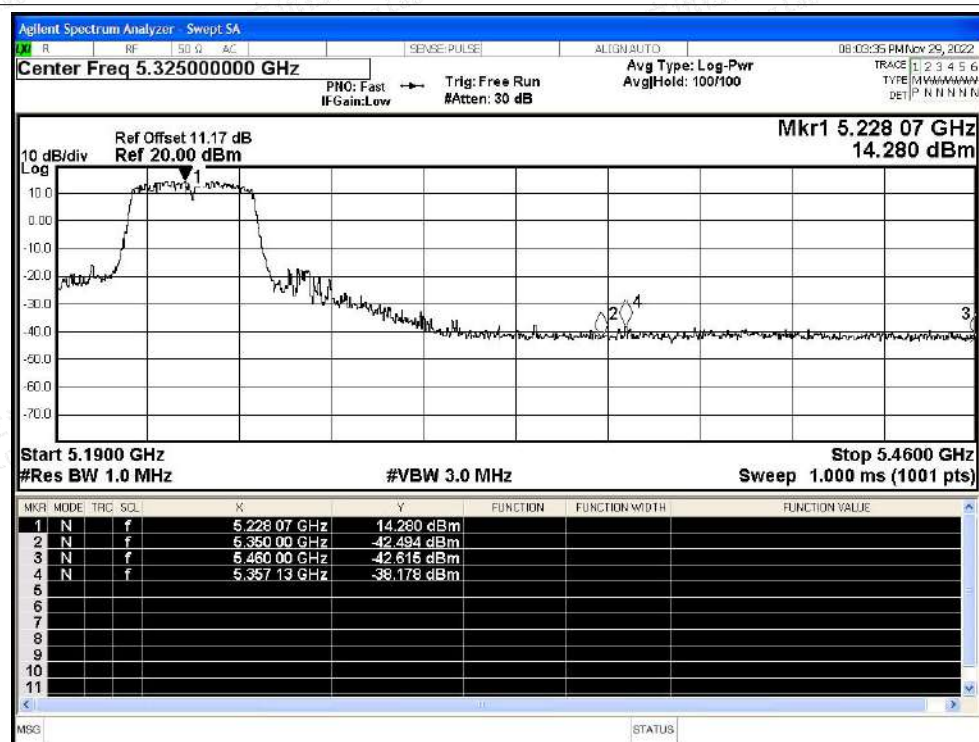
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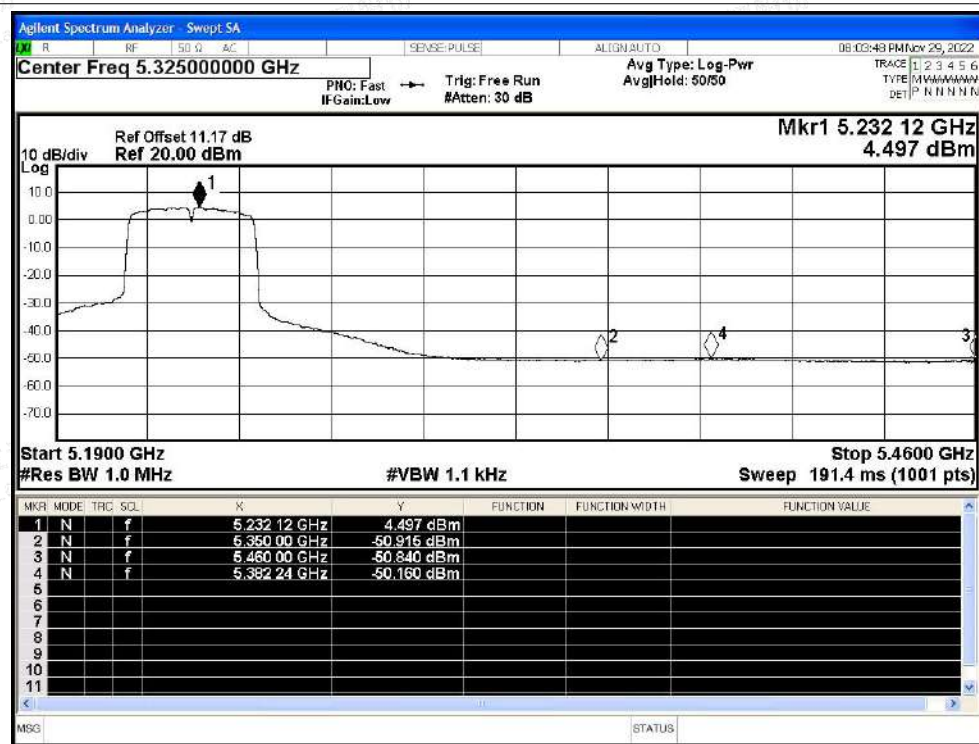
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Restrict Band NVNT ac40 5230MHz Peak



Restrict Band NVNT ac40 5230MHz Average



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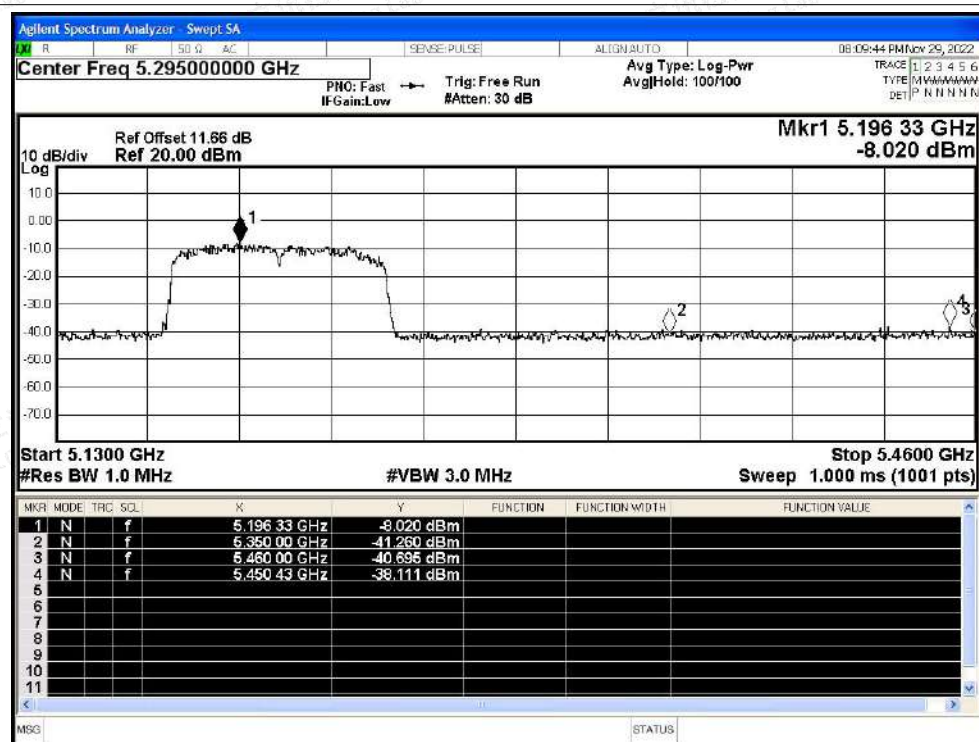
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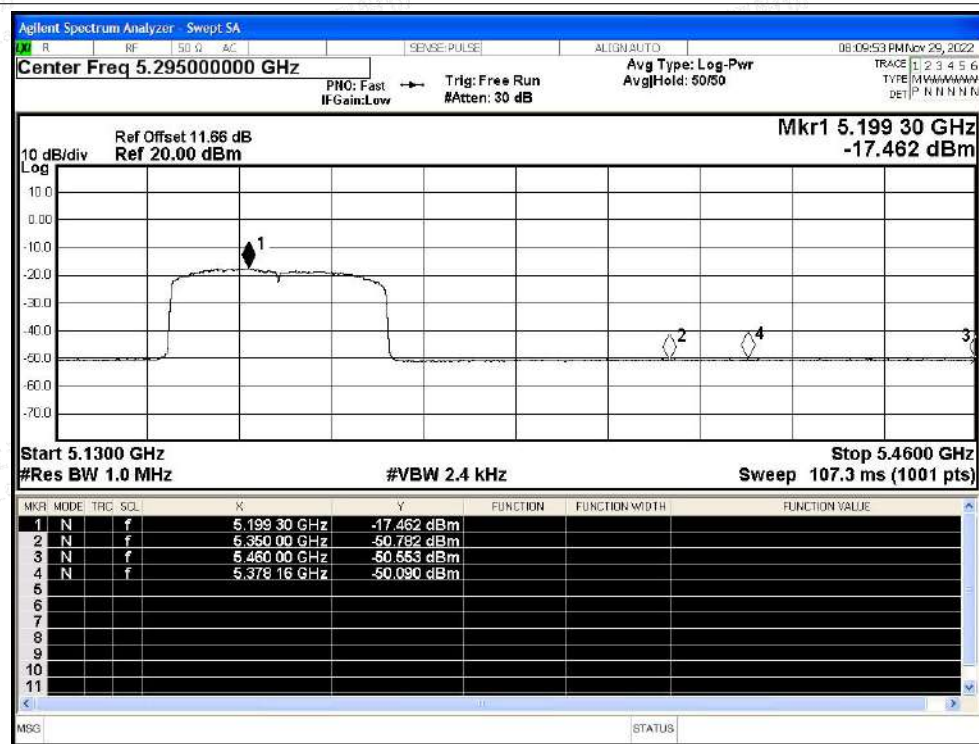
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Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average



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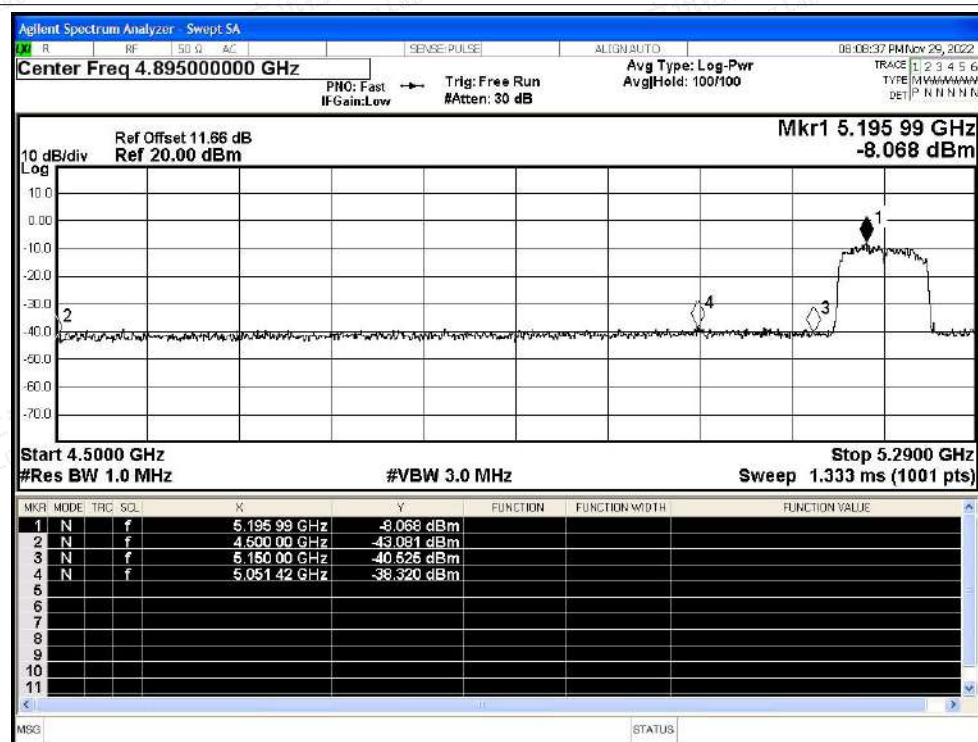
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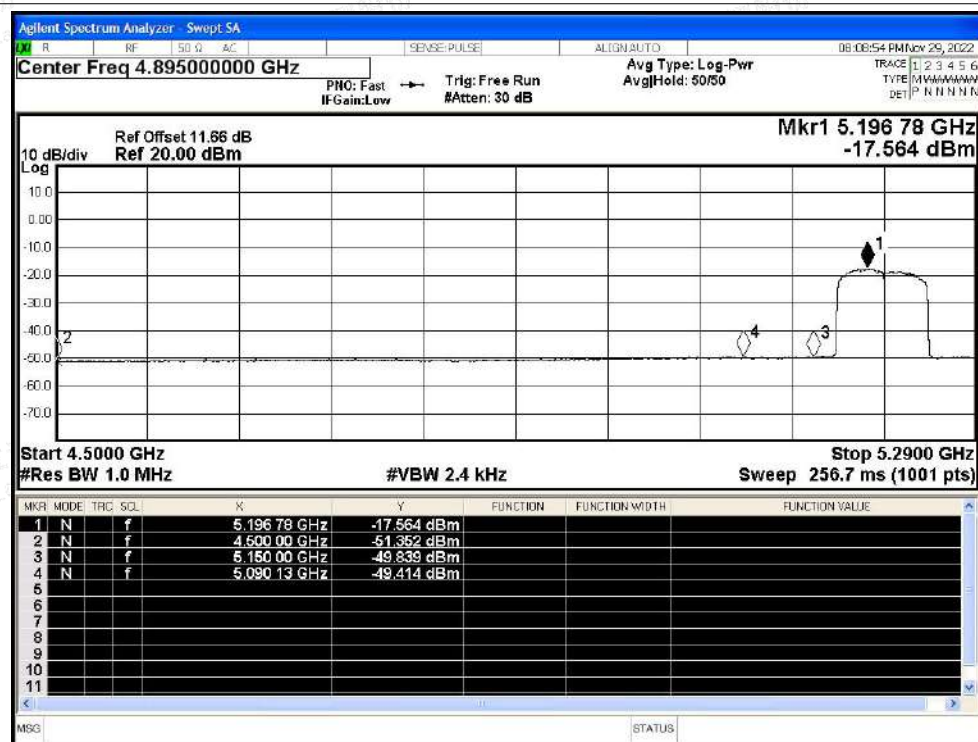
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Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average



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B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant0	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant0	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant0	5179.96	-40000	-7.72	25	Pass
NVNT	ac20	5200	Ant0	5199.94	-60000	-11.54	25	Pass
NVNT	ac20	5240	Ant0	5239.96	-40000	-7.63	25	Pass
NVNT	ac40	5190	Ant0	5189.92	-80000	-15.41	25	Pass
NVNT	ac40	5230	Ant0	5229.92	-80000	-15.3	25	Pass
NVNT	ac80	5210	Ant0	5209.92	-80000	-15.36	25	Pass

