



Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Outdoor AP

Test Model: CF-EW84

Environmental Conditions

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





B.1 -26dB Bandwidth

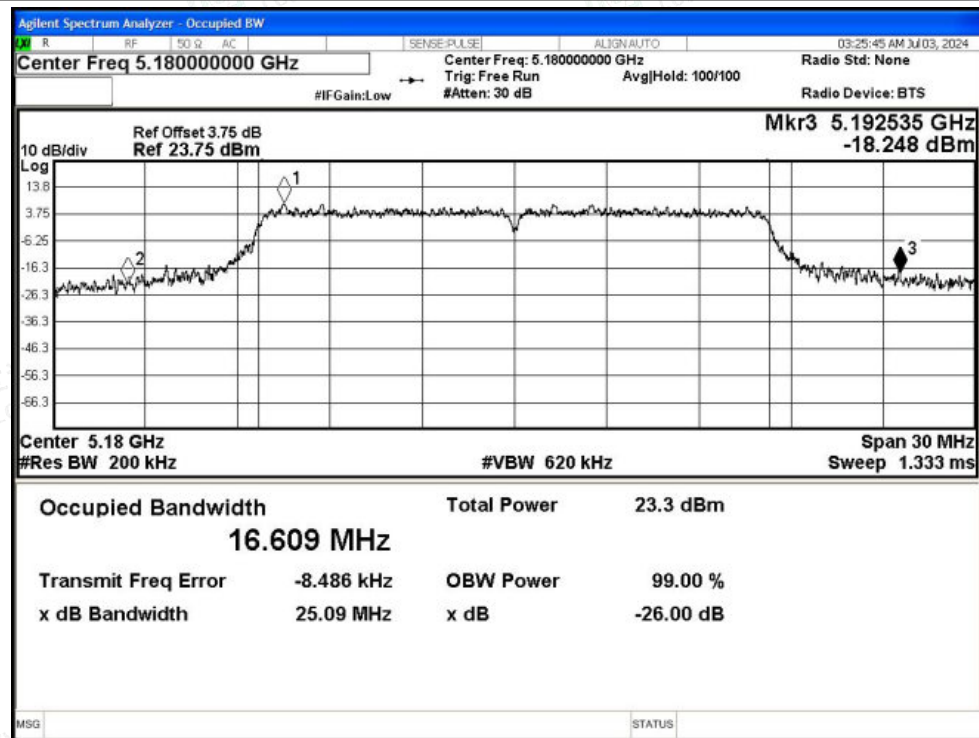
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	25.086	≥ 0.5	Pass
NVNT	a	5200	Ant0	28.26	≥ 0.5	Pass
NVNT	a	5240	Ant0	24.695	≥ 0.5	Pass
NVNT	n20	5180	Ant0	22.49	≥ 0.5	Pass
NVNT	n20	5200	Ant0	23.552	≥ 0.5	Pass
NVNT	n20	5240	Ant0	28.311	≥ 0.5	Pass
NVNT	n40	5190	Ant0	50.656	≥ 0.5	Pass
NVNT	n40	5230	Ant0	47.107	≥ 0.5	Pass
NVNT	ac20	5180	Ant0	22.263	≥ 0.5	Pass
NVNT	ac20	5200	Ant0	23.804	≥ 0.5	Pass
NVNT	ac20	5240	Ant0	27.182	≥ 0.5	Pass
NVNT	ac40	5190	Ant0	46.406	≥ 0.5	Pass
NVNT	ac40	5230	Ant0	55.022	≥ 0.5	Pass
NVNT	ac80	5210	Ant0	110.667	≥ 0.5	Pass



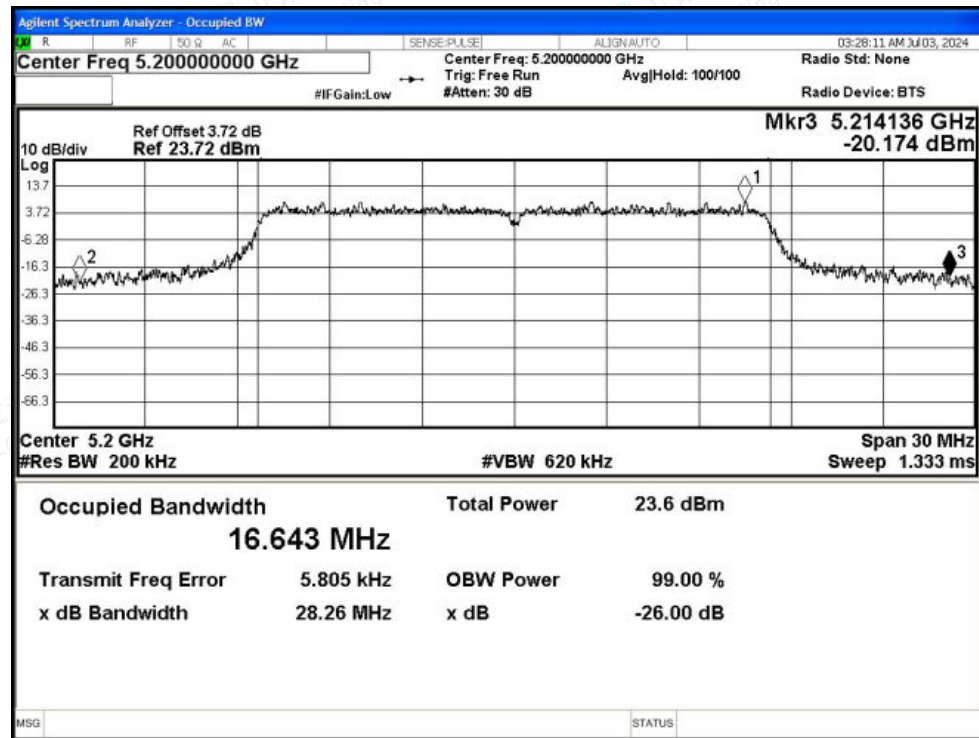


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0

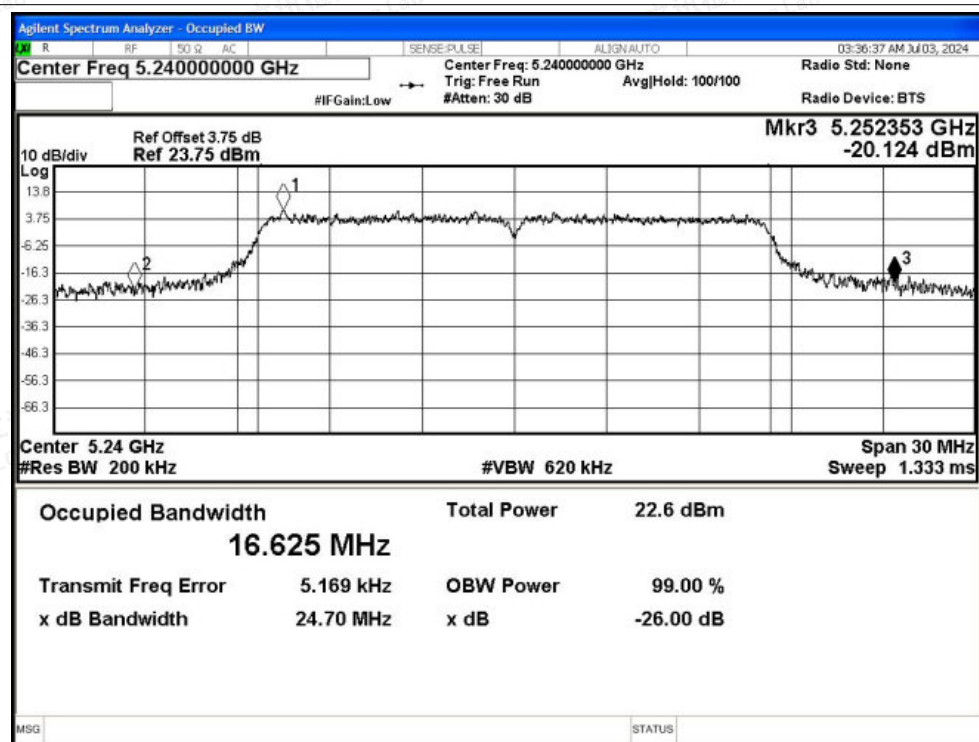


-26dB Bandwidth NVNT a 5200MHz Ant0

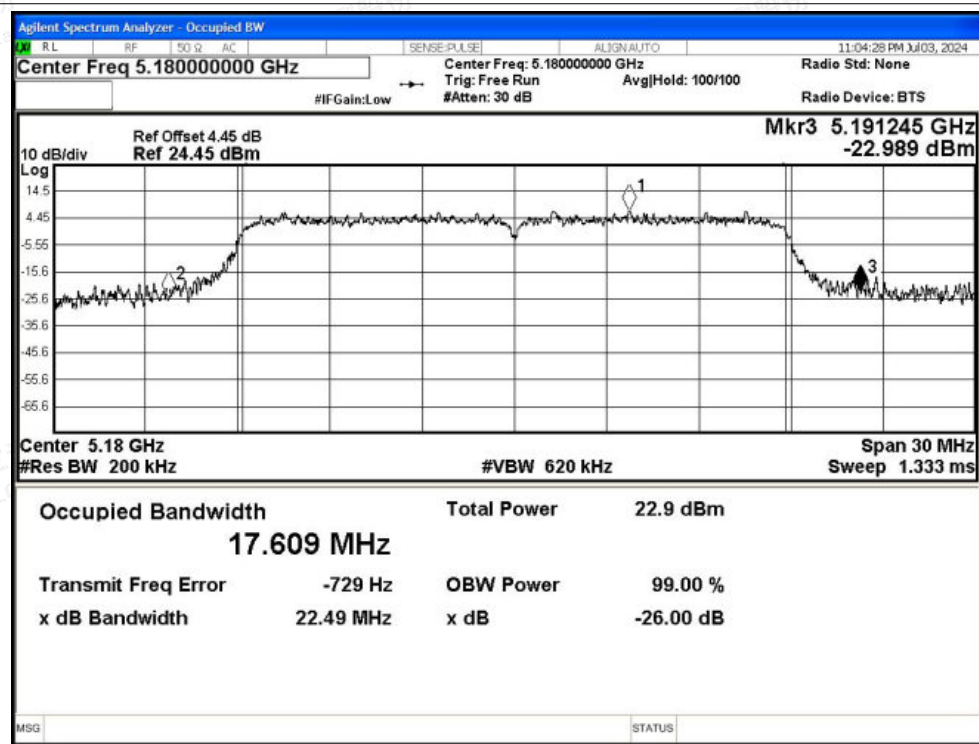




-26dB Bandwidth NVNT a 5240MHz Ant0



-26dB Bandwidth NVNT n20 5180MHz Ant0

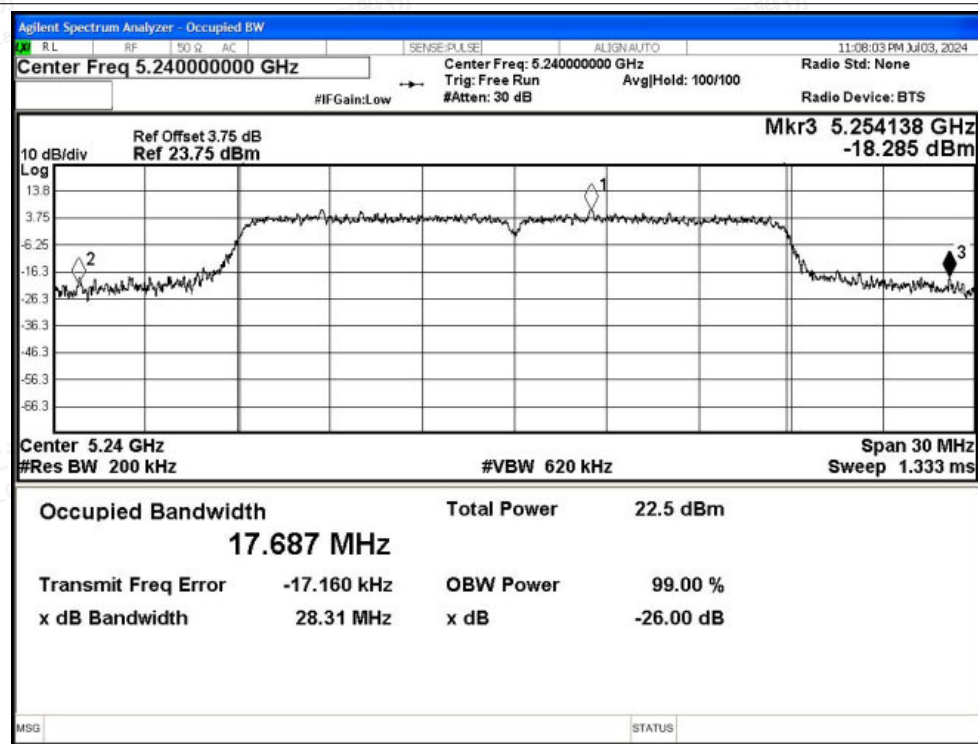




-26dB Bandwidth NVNT n20 5200MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant0



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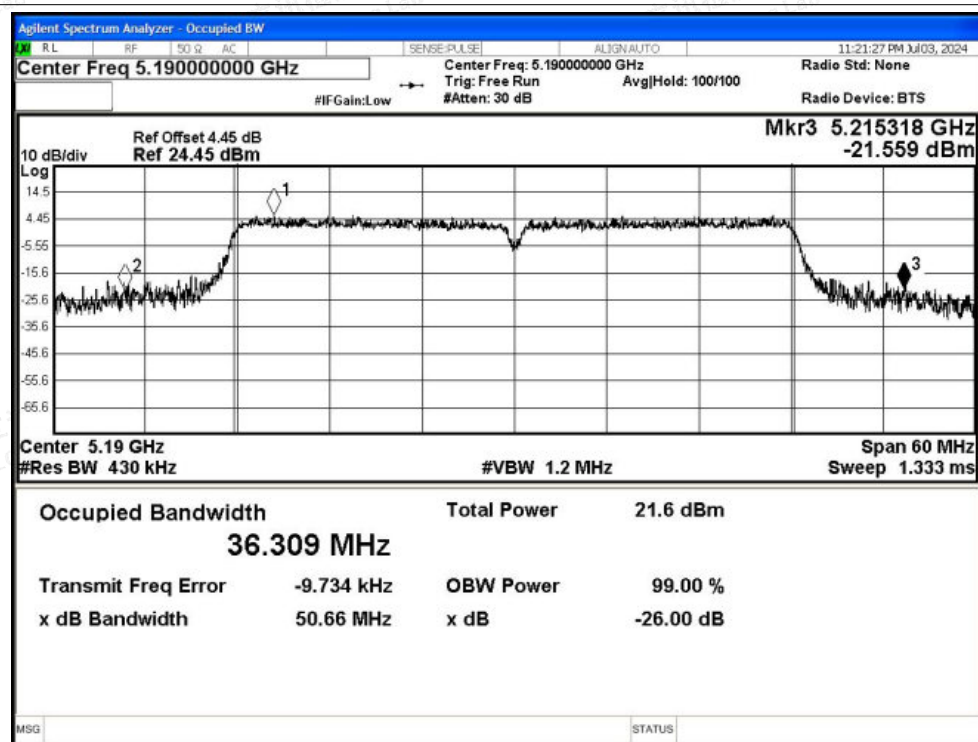
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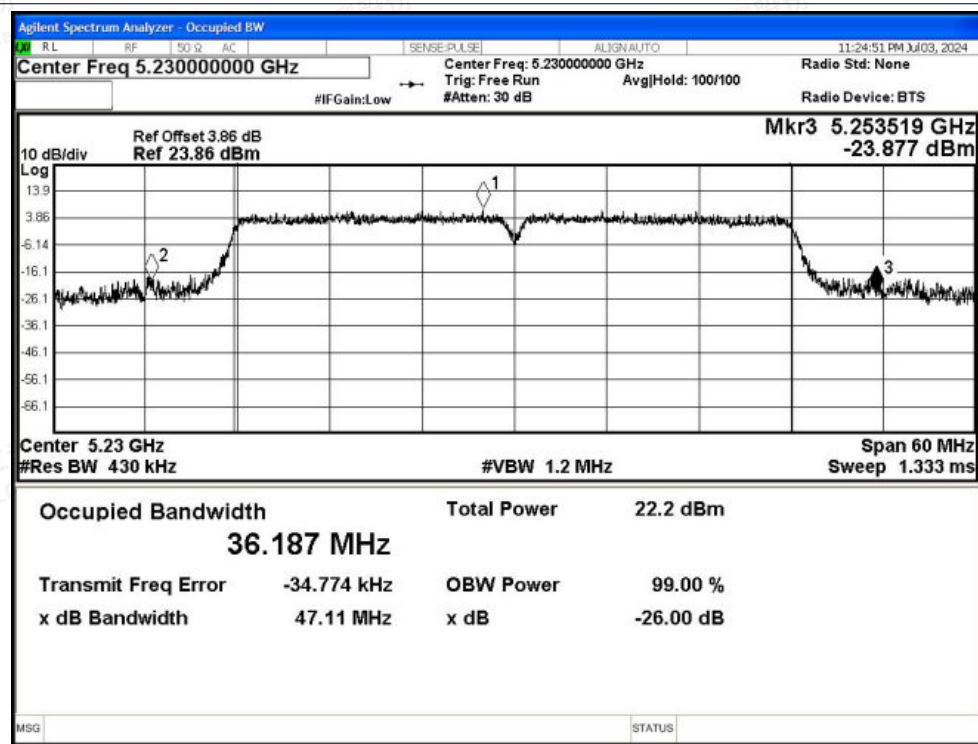
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-26dB Bandwidth NVNT n40 5190MHz Ant0

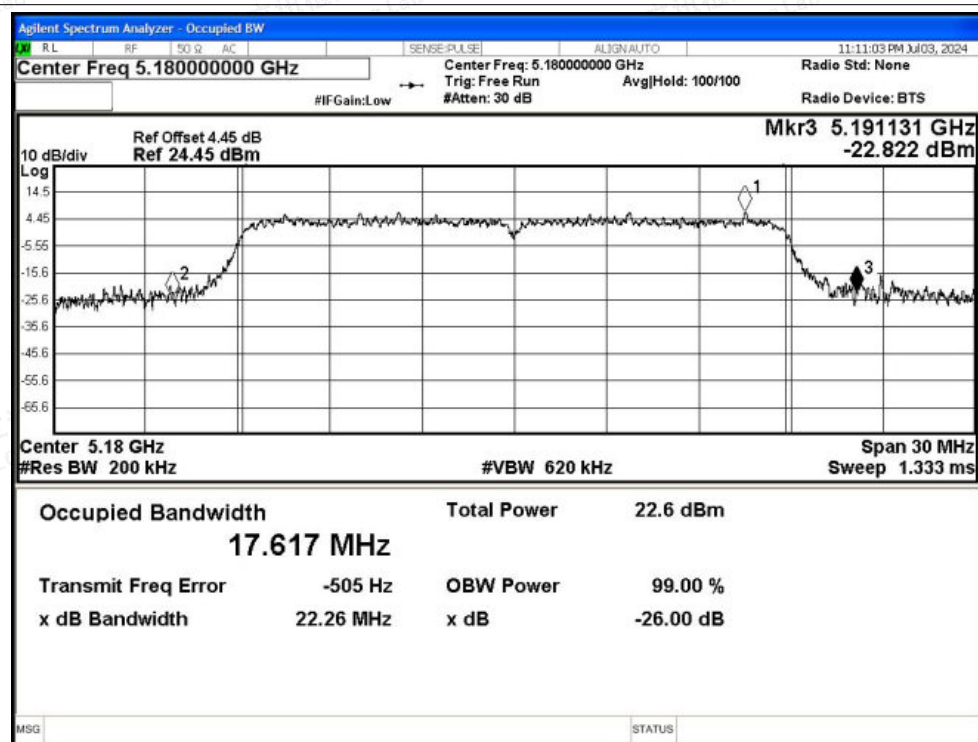


-26dB Bandwidth NVNT n40 5230MHz Ant0

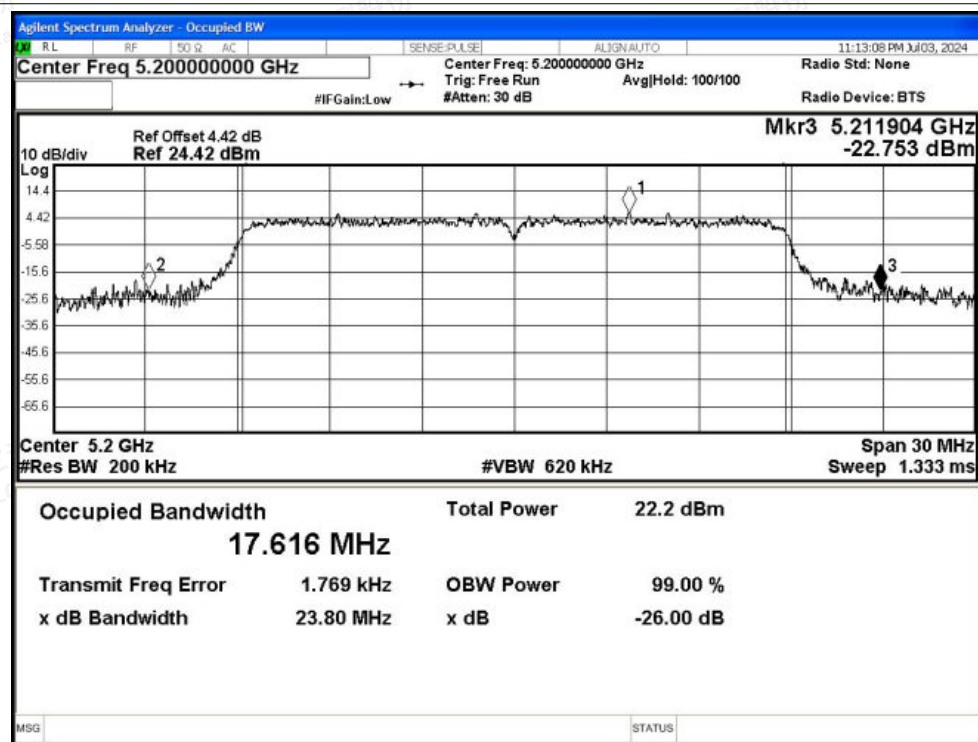




-26dB Bandwidth NVNT ac20 5180MHz Ant0

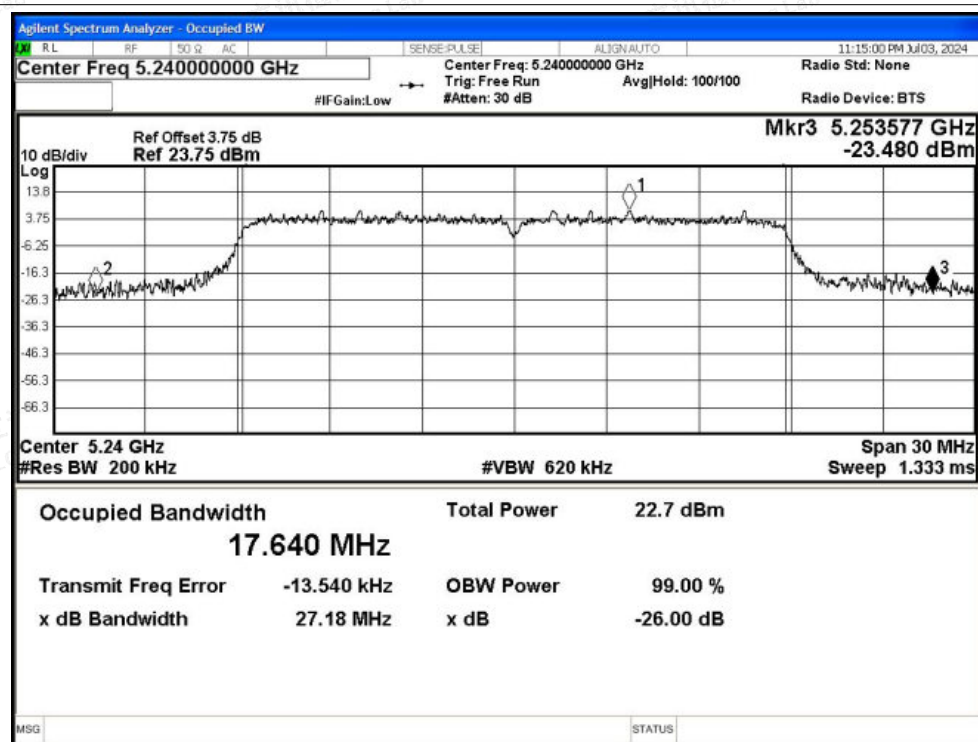


-26dB Bandwidth NVNT ac20 5200MHz Ant0

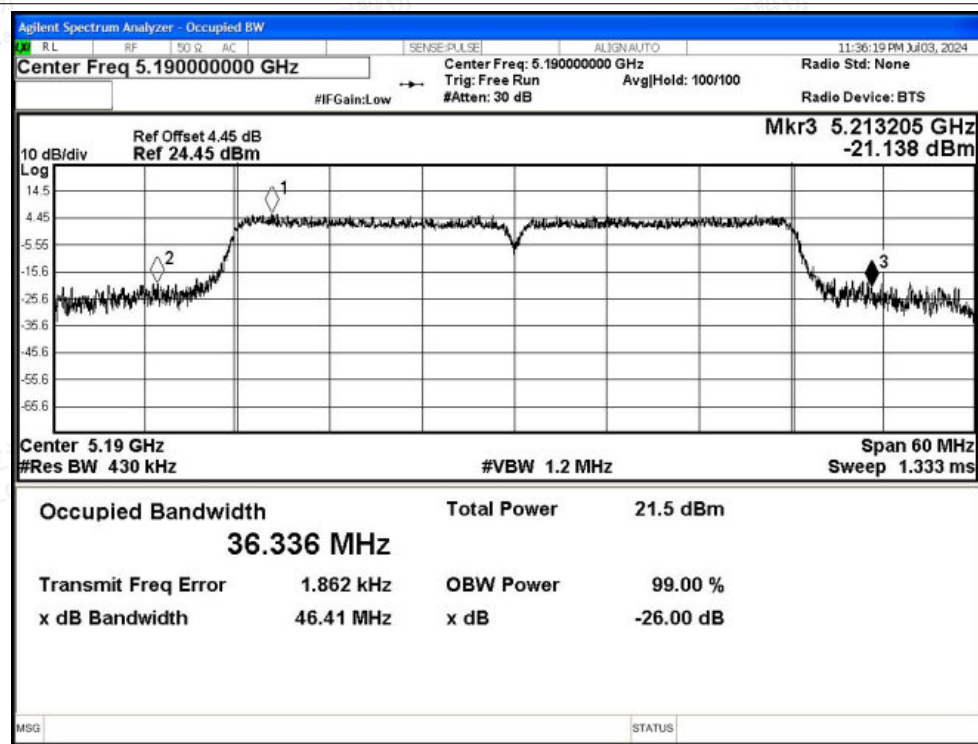




-26dB Bandwidth NVNT ac20 5240MHz Ant0

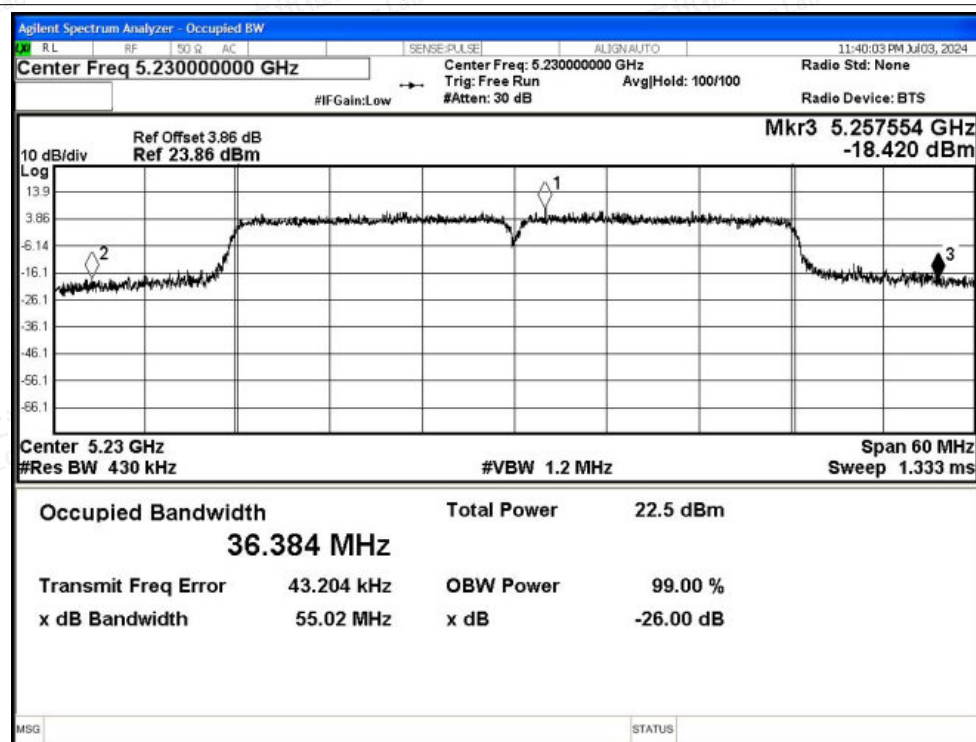


-26dB Bandwidth NVNT ac40 5190MHz Ant0

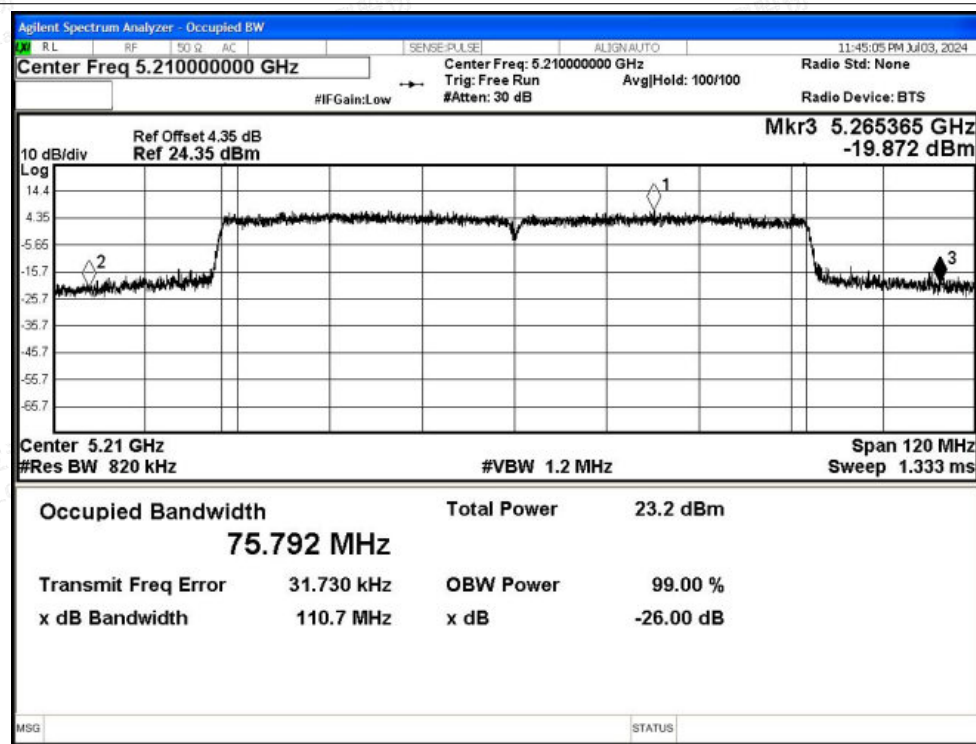




-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0





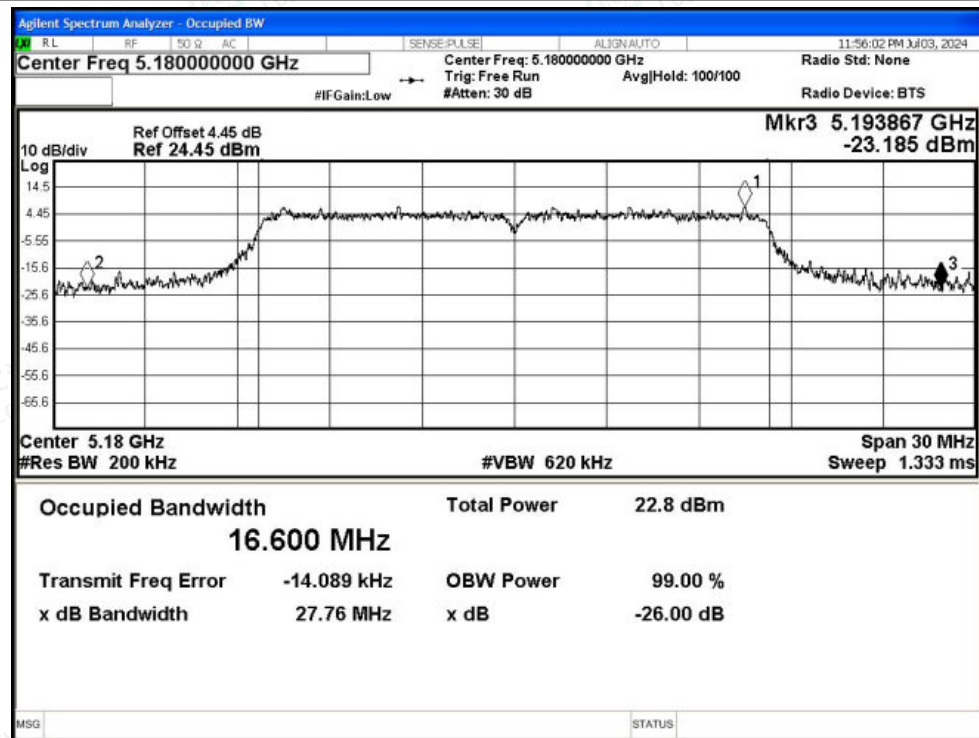
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	27.762	≥ 0.5	Pass
NVNT	a	5200	Ant1	24.926	≥ 0.5	Pass
NVNT	a	5240	Ant1	23.816	≥ 0.5	Pass
NVNT	n20	5180	Ant1	24.316	≥ 0.5	Pass
NVNT	n20	5200	Ant1	27.359	≥ 0.5	Pass
NVNT	n20	5240	Ant1	25.46	≥ 0.5	Pass
NVNT	n40	5190	Ant1	41.479	≥ 0.5	Pass
NVNT	n40	5230	Ant1	53.503	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	22.199	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	22.692	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	28.541	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	42.472	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	47.346	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	90.727	≥ 0.5	Pass



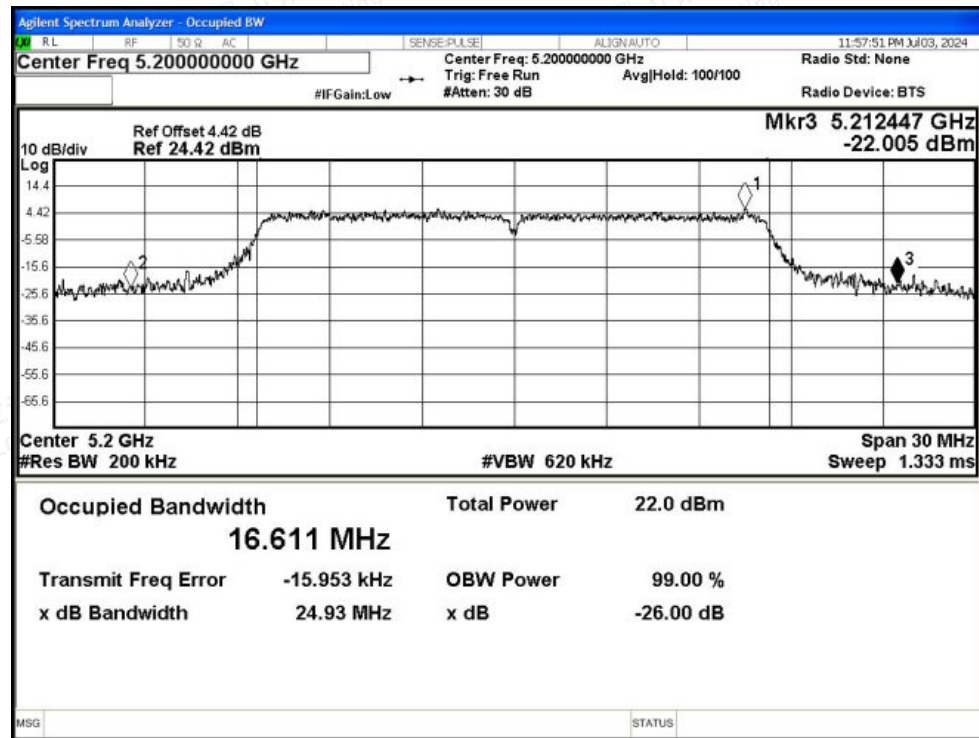


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

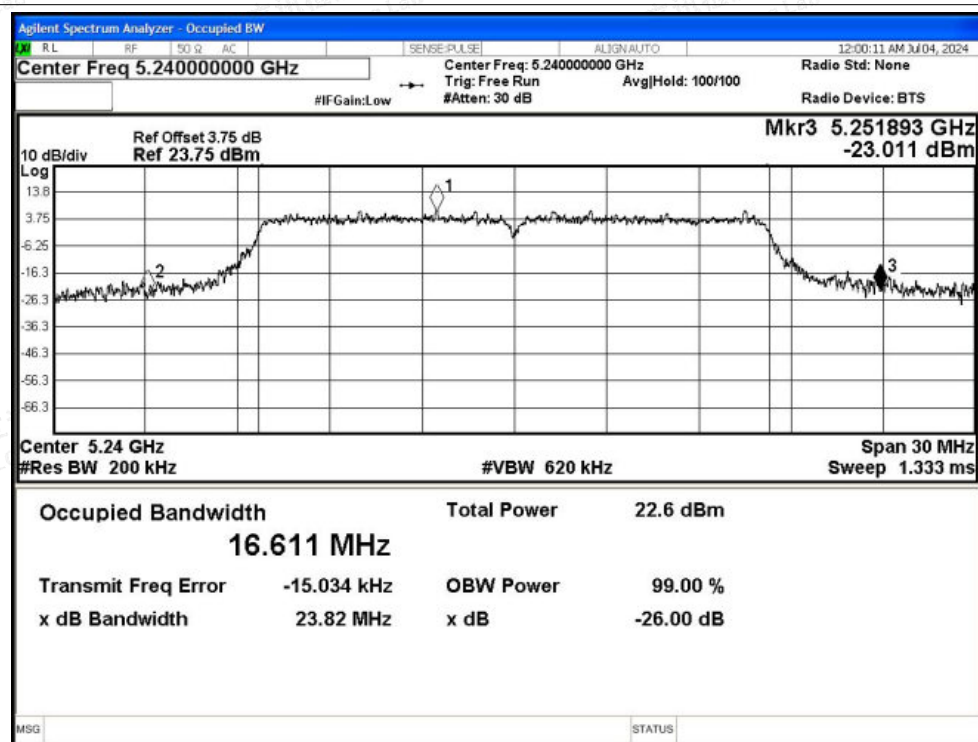


-26dB Bandwidth NVNT a 5200MHz Ant1

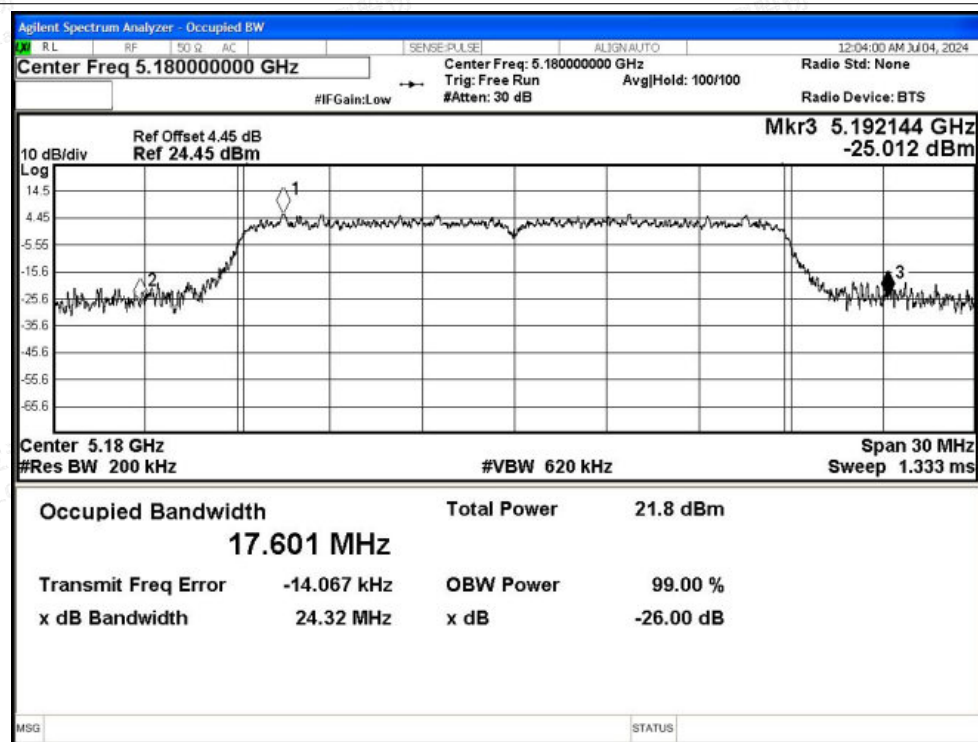




-26dB Bandwidth NVNT a 5240MHz Ant1

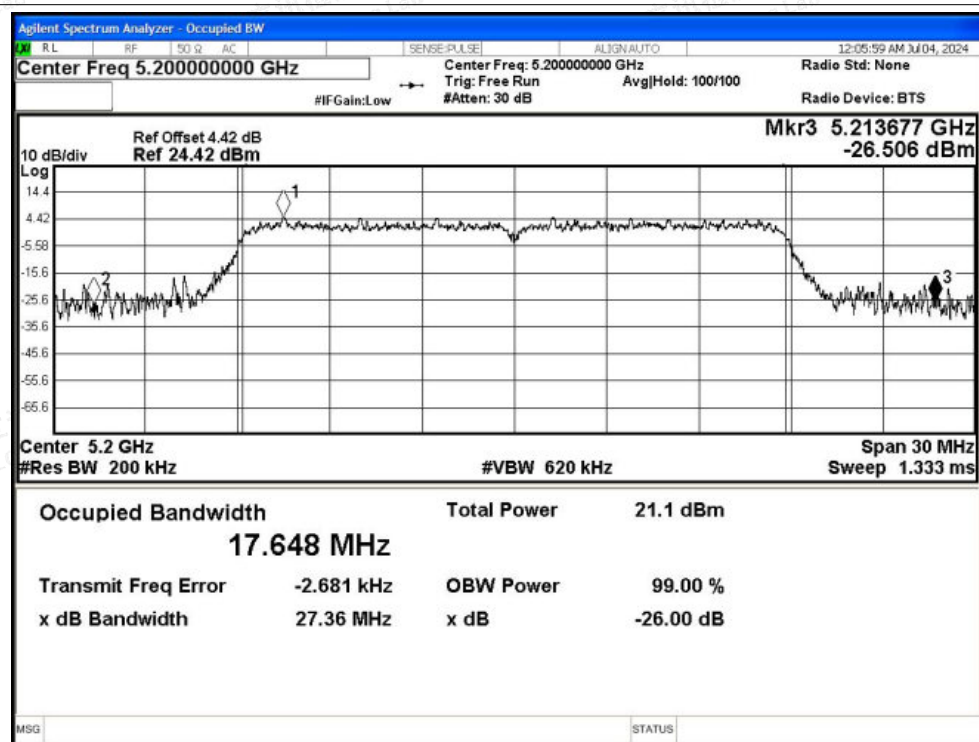


-26dB Bandwidth NVNT n20 5180MHz Ant1

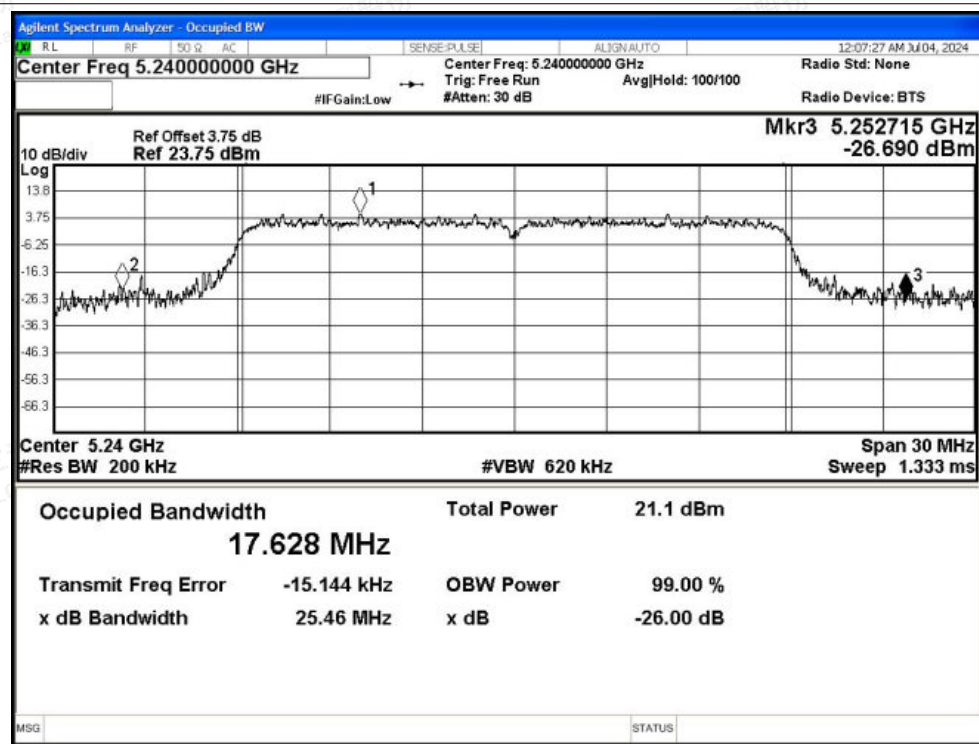




-26dB Bandwidth NVNT n20 5200MHz Ant1

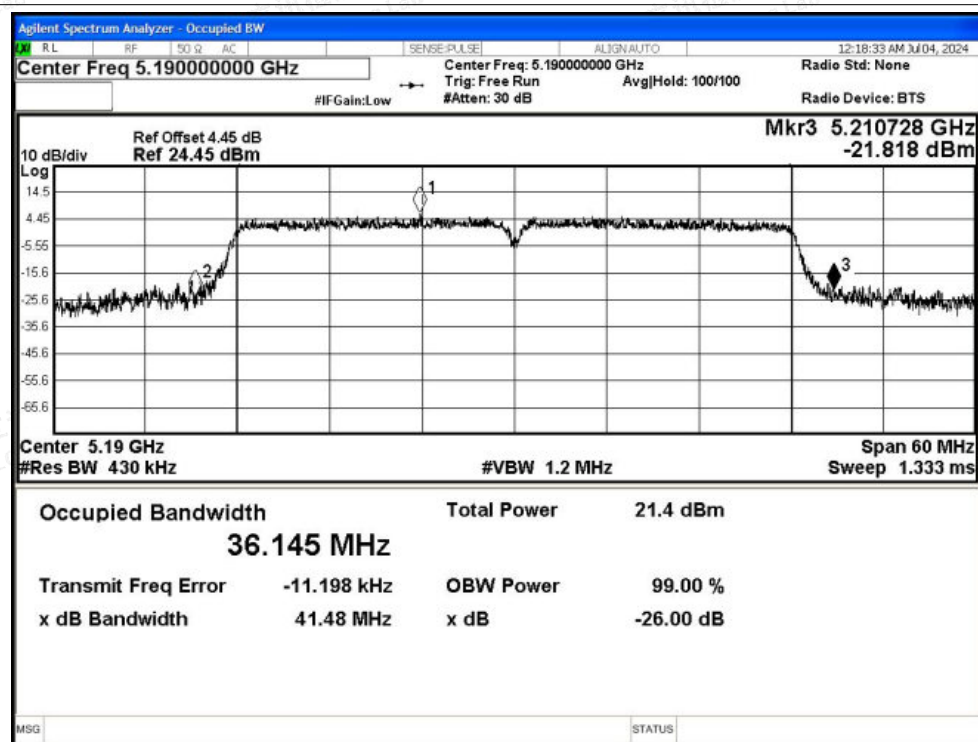


-26dB Bandwidth NVNT n20 5240MHz Ant1

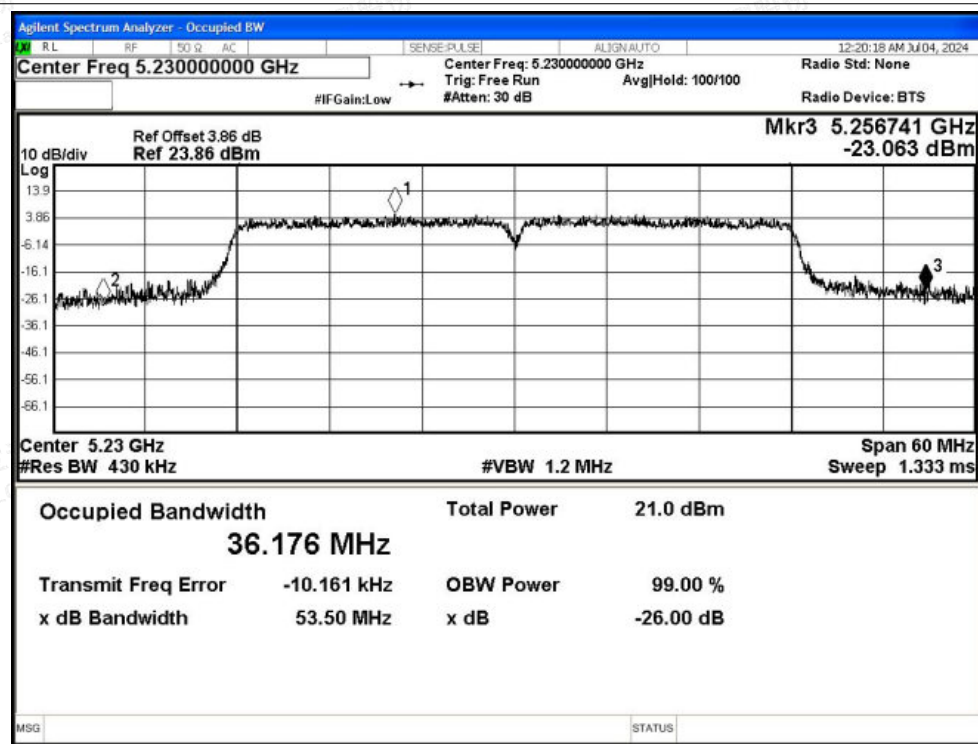




-26dB Bandwidth NVNT n40 5190MHz Ant1

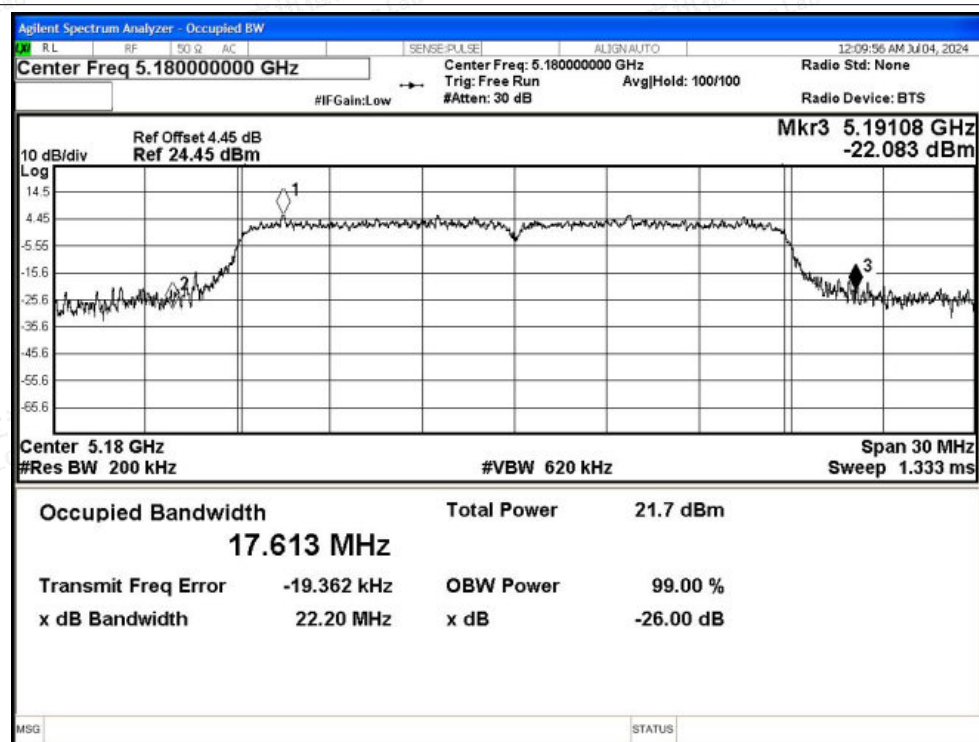


-26dB Bandwidth NVNT n40 5230MHz Ant1

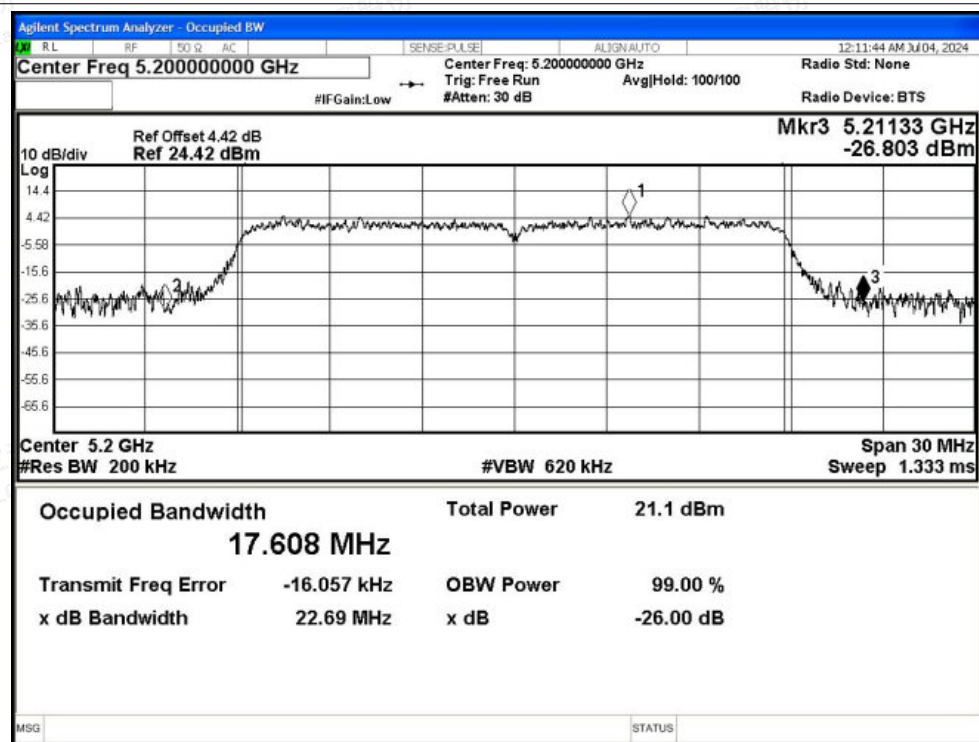




-26dB Bandwidth NVNT ac20 5180MHz Ant1

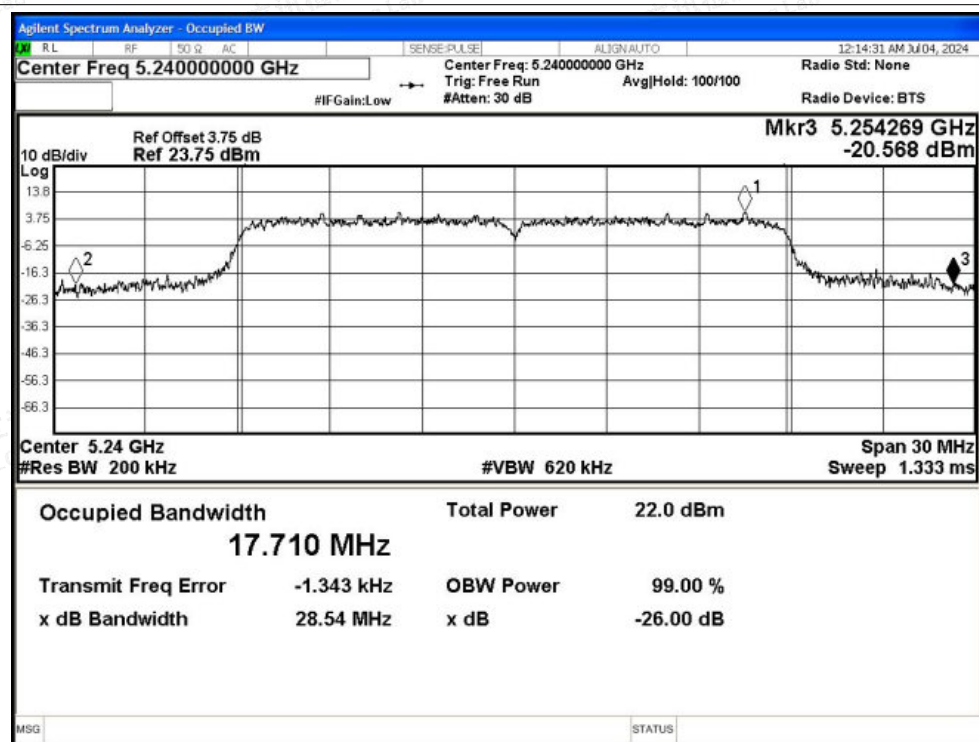


-26dB Bandwidth NVNT ac20 5200MHz Ant1

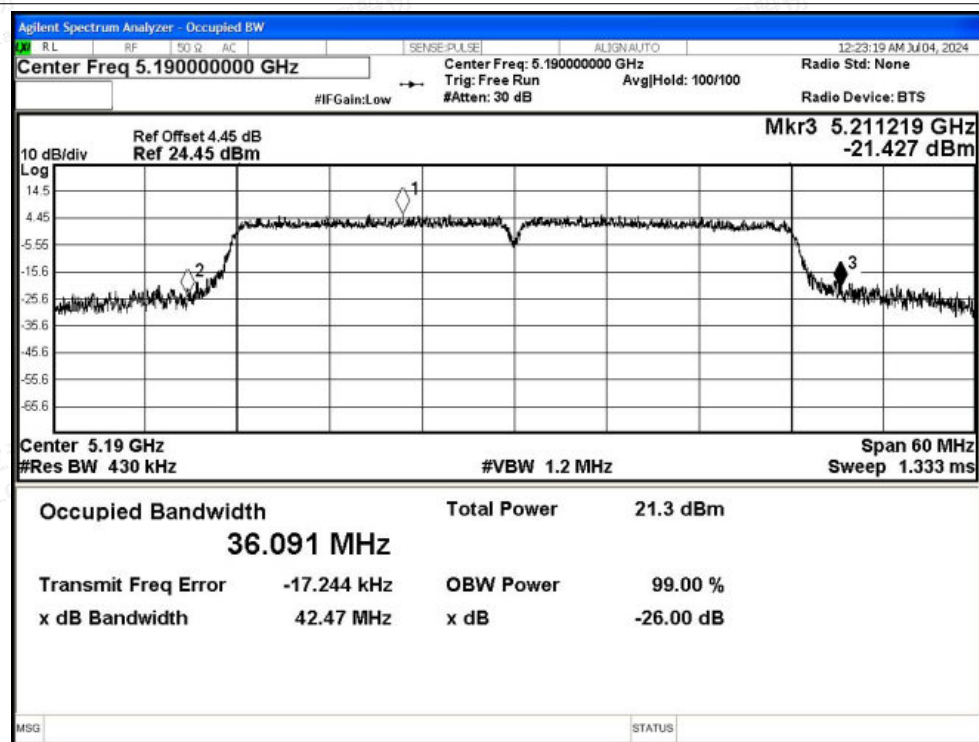




-26dB Bandwidth NVNT ac20 5240MHz Ant1

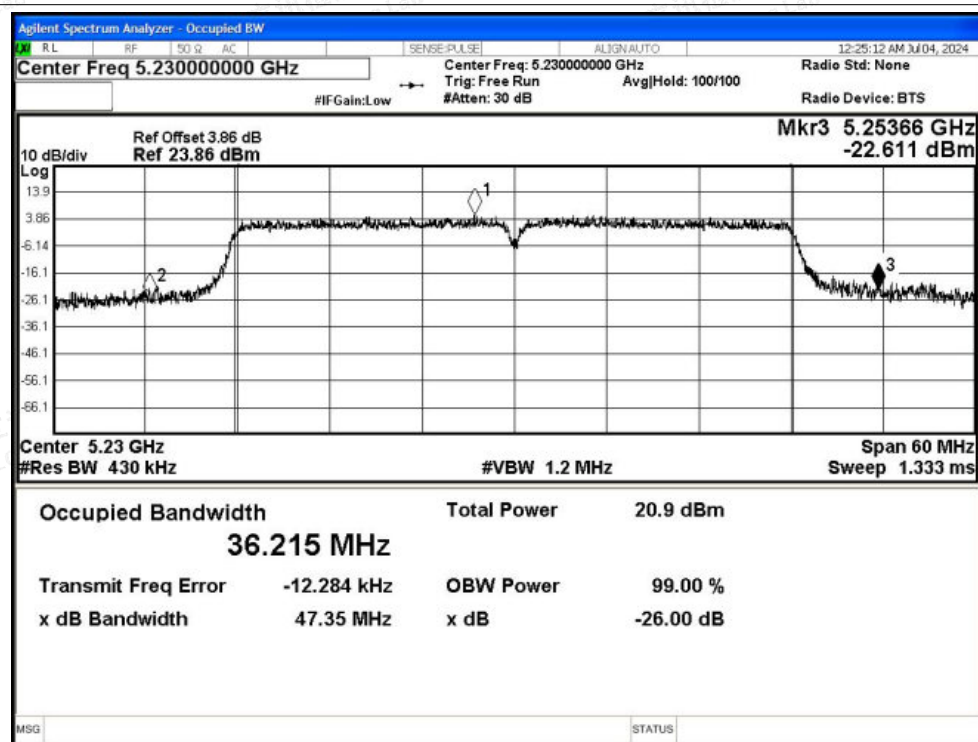


-26dB Bandwidth NVNT ac40 5190MHz Ant1

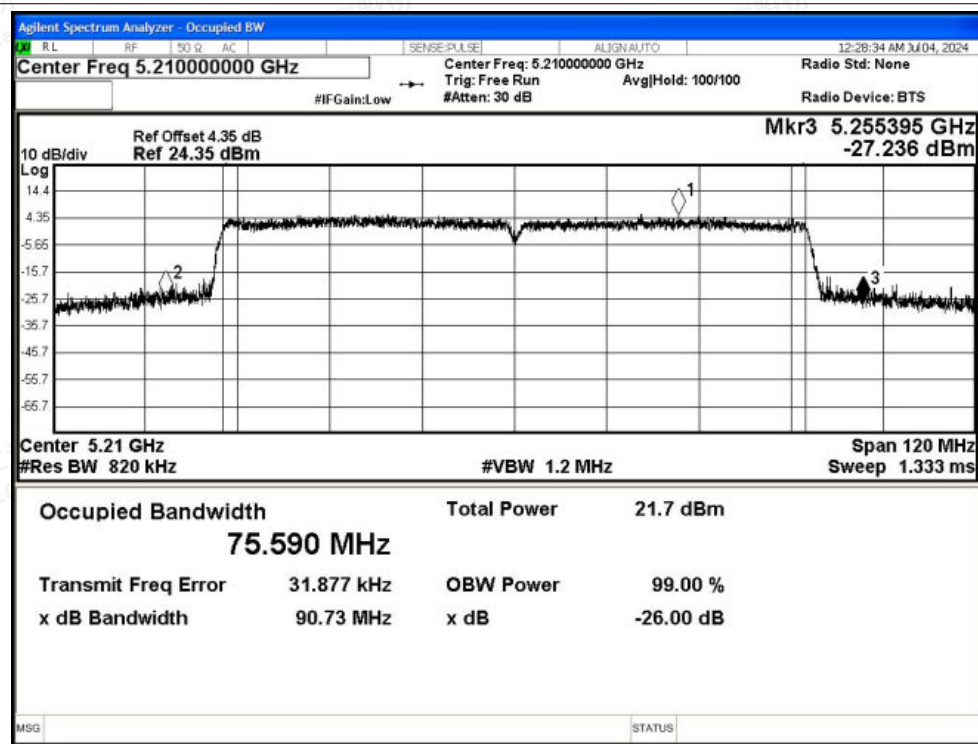




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





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	17.18	0.57	17.75	24	Pass
NVNT	a	5200	Ant0	17.57	0.57	18.14	24	Pass
NVNT	a	5240	Ant0	16.55	0.57	17.12	24	Pass
NVNT	n20	5180	Ant0	15.52	0.66	16.18	24	Pass
NVNT	n20	5200	Ant0	15.43	0.66	16.09	24	Pass
NVNT	n20	5240	Ant0	14.95	0.66	15.61	24	Pass
NVNT	n40	5190	Ant0	15.05	1.18	16.23	24	Pass
NVNT	n40	5230	Ant0	15.47	1.08	16.55	24	Pass
NVNT	ac20	5180	Ant0	15	0.66	15.66	24	Pass
NVNT	ac20	5200	Ant0	15.55	0.66	16.21	24	Pass
NVNT	ac20	5240	Ant0	14.8	0.65	15.45	24	Pass
NVNT	ac40	5190	Ant0	15.89	1.11	17.00	24	Pass
NVNT	ac40	5230	Ant0	15.4	1.7	17.10	24	Pass
NVNT	ac80	5210	Ant0	15.23	1.75	16.98	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.74	0.57	17.31	24	Pass
NVNT	a	5200	Ant1	16.06	0.57	16.63	24	Pass
NVNT	a	5240	Ant1	16.68	0.84	17.52	24	Pass
NVNT	n20	5180	Ant1	15.5	0.66	16.16	24	Pass
NVNT	n20	5200	Ant1	15.06	0.66	15.72	24	Pass
NVNT	n20	5240	Ant1	15.04	0.7	15.74	24	Pass
NVNT	n40	5190	Ant1	14.86	1.13	15.99	24	Pass
NVNT	n40	5230	Ant1	14.19	1.13	15.32	24	Pass
NVNT	ac20	5180	Ant1	15.58	0.96	16.54	24	Pass
NVNT	ac20	5200	Ant1	15.36	0.66	16.02	24	Pass
NVNT	ac20	5240	Ant1	15.52	0.24	15.76	24	Pass
NVNT	ac40	5190	Ant1	14.74	1.12	15.86	24	Pass
NVNT	ac40	5230	Ant1	14.23	1.12	15.35	24	Pass
NVNT	ac80	5210	Ant1	13.89	2.28	16.17	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	16.18	16.16	19.18	21.99	Pass
NVNT	n20	5200	16.09	15.72	18.92	21.99	Pass
NVNT	n20	5240	15.61	15.74	18.69	21.99	Pass
NVNT	n40	5190	16.23	15.99	19.12	21.99	Pass
NVNT	n40	5230	16.55	15.32	18.99	21.99	Pass
NVNT	ac20	5180	15.66	16.54	19.13	21.99	Pass
NVNT	ac20	5200	16.21	16.02	19.13	21.99	Pass
NVNT	ac20	5240	15.45	15.76	18.62	21.99	Pass
NVNT	ac40	5190	17.00	15.86	19.48	21.99	Pass
NVNT	ac40	5230	17.10	15.35	19.32	21.99	Pass
NVNT	ac80	5210	16.98	16.17	19.60	21.99	Pass



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B.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	6.73	0.57	7.3	11	Pass
NVNT	a	5200	Ant0	7.06	0.57	7.63	11	Pass
NVNT	a	5240	Ant0	5.94	0.57	6.51	11	Pass
NVNT	n20	5180	Ant0	4.43	0.66	5.09	11	Pass
NVNT	n20	5200	Ant0	5.15	0.66	5.81	11	Pass
NVNT	n20	5240	Ant0	4.03	0.66	4.69	11	Pass
NVNT	n40	5190	Ant0	1.33	1.18	2.51	11	Pass
NVNT	n40	5230	Ant0	2.07	1.08	3.15	11	Pass
NVNT	ac20	5180	Ant0	4.22	0.66	4.88	11	Pass
NVNT	ac20	5200	Ant0	4.73	0.66	5.39	11	Pass
NVNT	ac20	5240	Ant0	4.59	0.65	5.24	11	Pass
NVNT	ac40	5190	Ant0	1.3	1.11	2.41	11	Pass
NVNT	ac40	5230	Ant0	2.02	1.7	3.72	11	Pass
NVNT	ac80	5210	Ant0	-0.79	1.75	0.96	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.9	0.57	6.47	11	Pass
NVNT	a	5200	Ant1	5.51	0.57	6.08	11	Pass
NVNT	a	5240	Ant1	5.96	0.84	6.8	11	Pass
NVNT	n20	5180	Ant1	c	0.66	5.47	11	Pass
NVNT	n20	5200	Ant1	4.23	0.66	4.89	11	Pass
NVNT	n20	5240	Ant1	4.46	0.7	5.16	11	Pass
NVNT	n40	5190	Ant1	1.49	1.13	2.62	11	Pass
NVNT	n40	5230	Ant1	0.96	1.13	2.09	11	Pass
NVNT	ac20	5180	Ant1	4.84	0.96	5.8	11	Pass
NVNT	ac20	5200	Ant1	4.2	0.66	4.86	11	Pass
NVNT	ac20	5240	Ant1	5.35	0.24	5.59	11	Pass
NVNT	ac40	5190	Ant1	1.31	1.12	2.43	11	Pass
NVNT	ac40	5230	Ant1	0.88	1.12	2	11	Pass
NVNT	ac80	5210	Ant1	-2.13	2.28	0.15	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	5.09	5.47	8.29	8.99	Pass
NVNT	n20	5200	5.81	4.89	8.38	8.99	Pass
NVNT	n20	5240	4.69	5.16	7.94	8.99	Pass
NVNT	n40	5190	2.51	2.62	5.58	8.99	Pass
NVNT	n40	5230	3.15	2.09	5.66	8.99	Pass
NVNT	ac20	5180	4.88	5.8	8.37	8.99	Pass
NVNT	ac20	5200	5.39	4.86	8.14	8.99	Pass
NVNT	ac20	5240	5.24	5.59	8.43	8.99	Pass
NVNT	ac40	5190	2.41	2.43	5.43	8.99	Pass
NVNT	ac40	5230	3.72	2	5.95	8.99	Pass
NVNT	ac80	5210	0.96	0.15	3.58	8.99	Pass

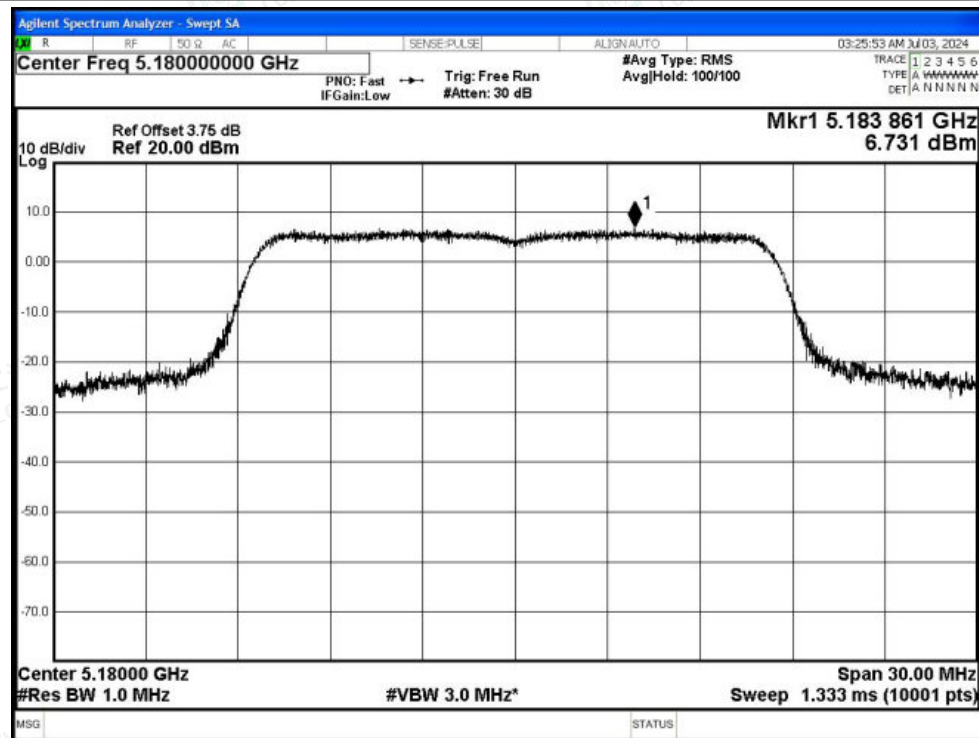


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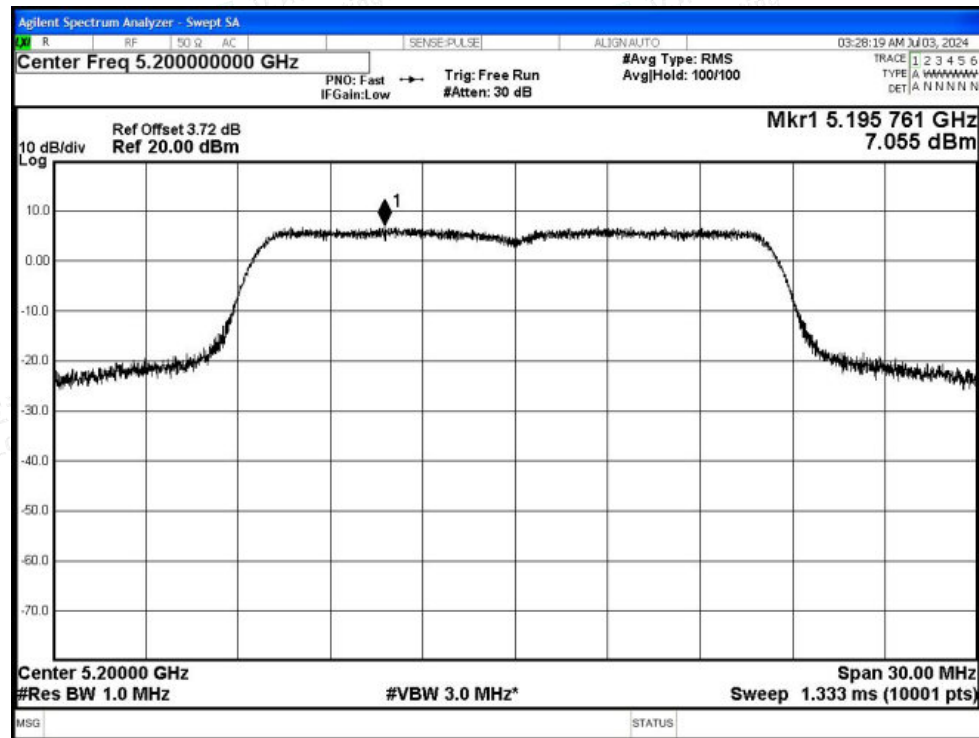


Test Graphs

PSD NVNT a 5180MHz Ant0

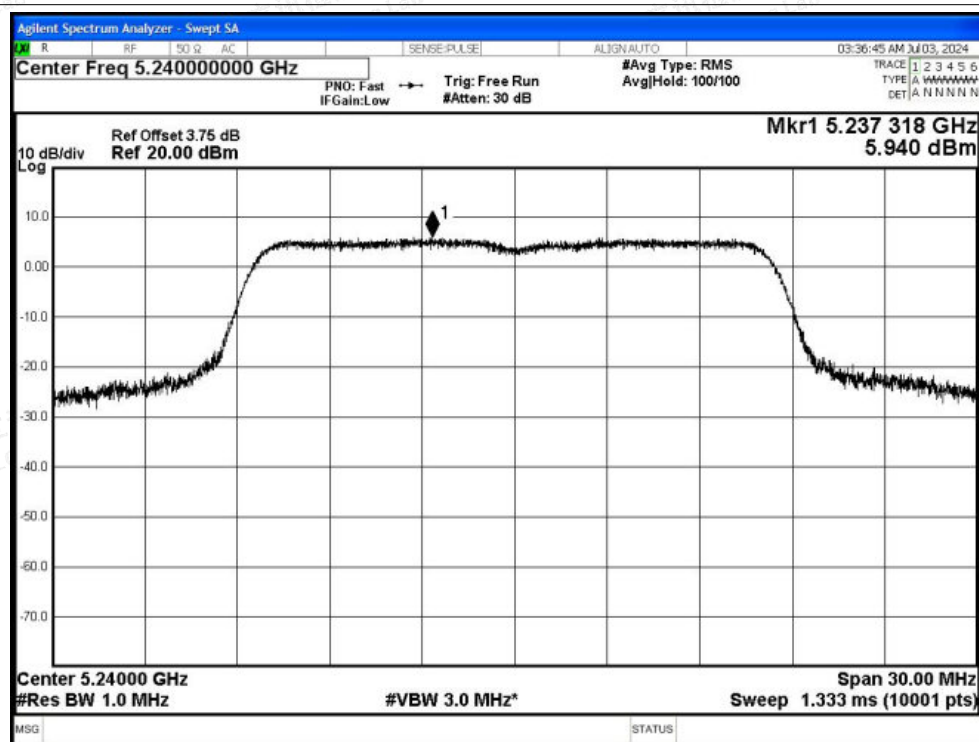


PSD NVNT a 5200MHz Ant0

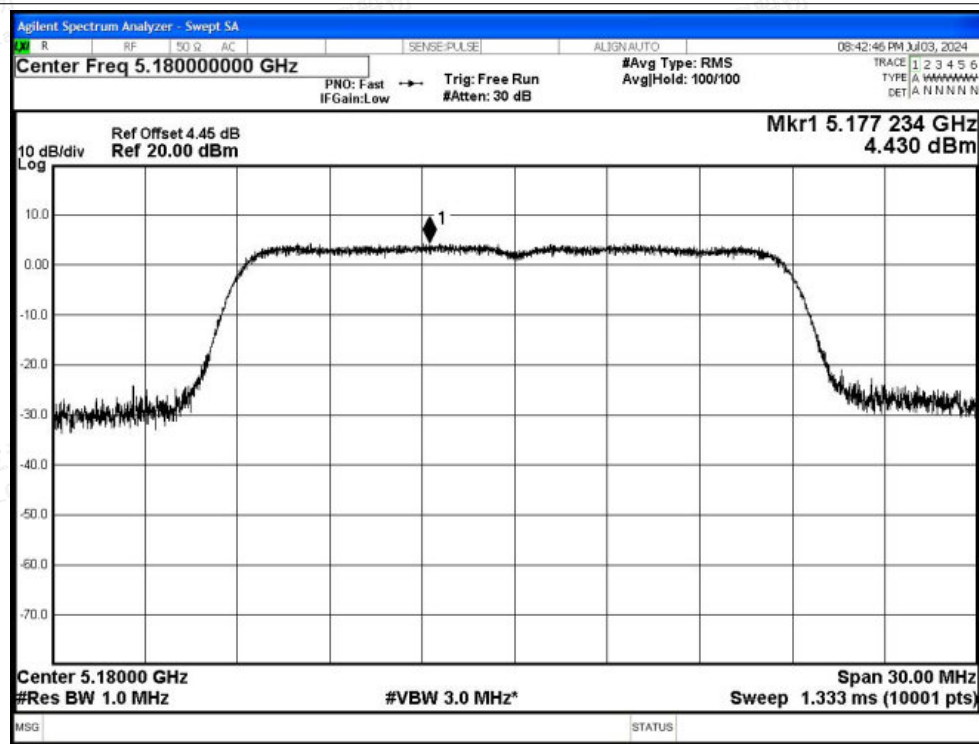


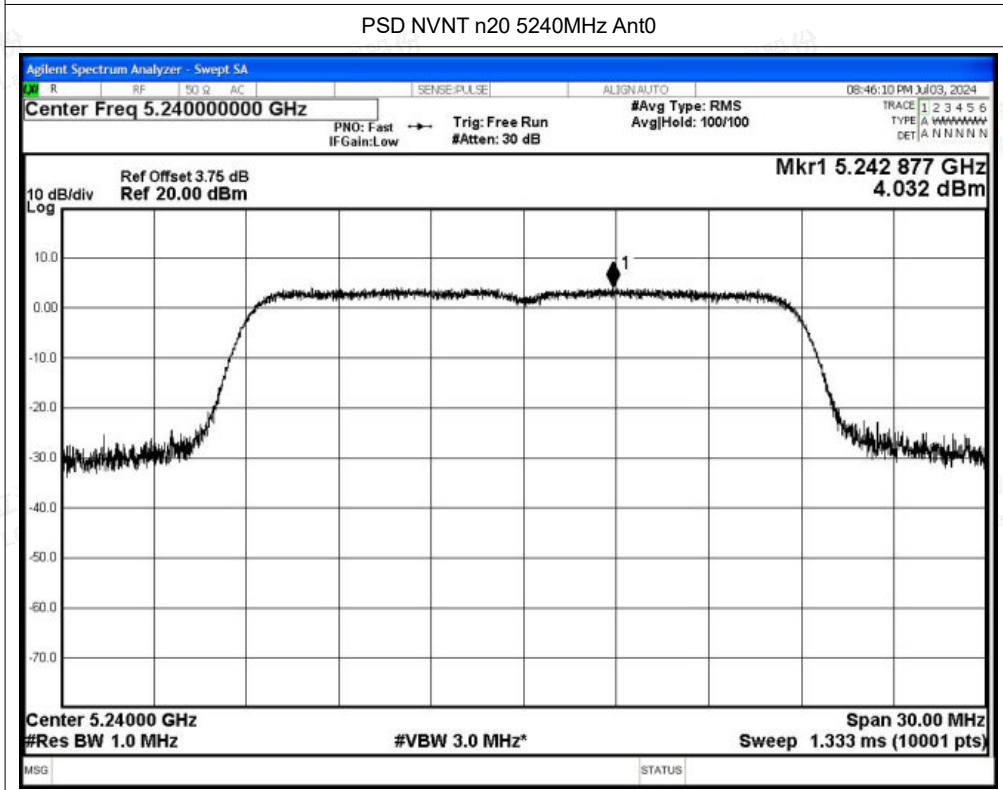
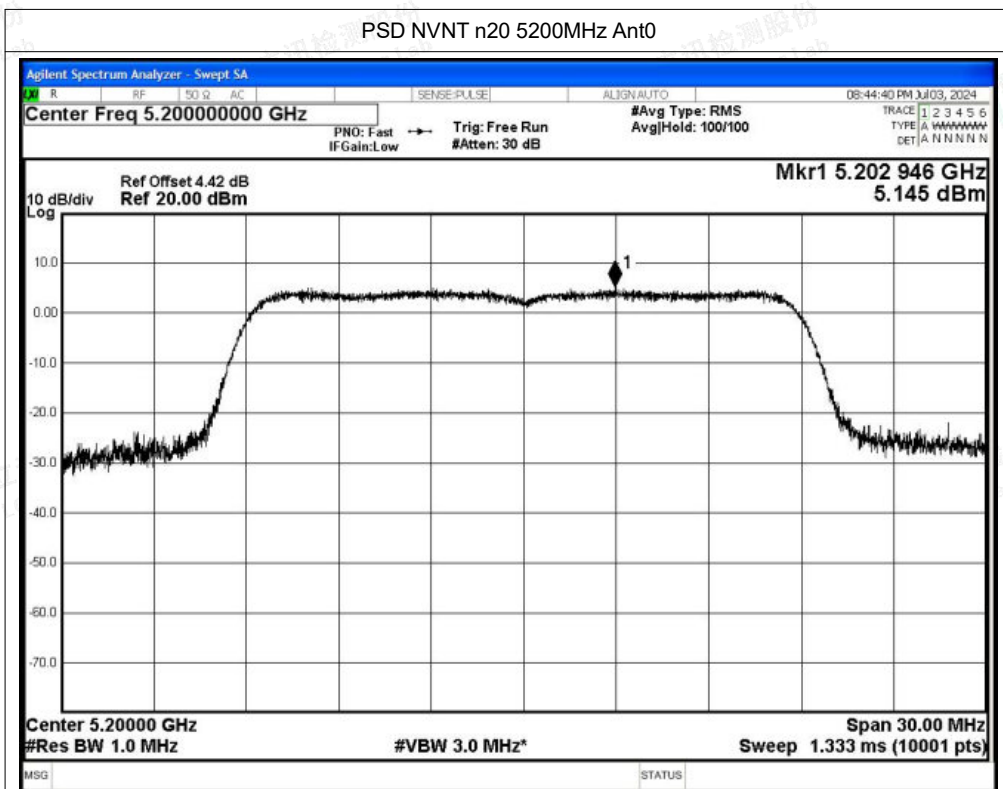


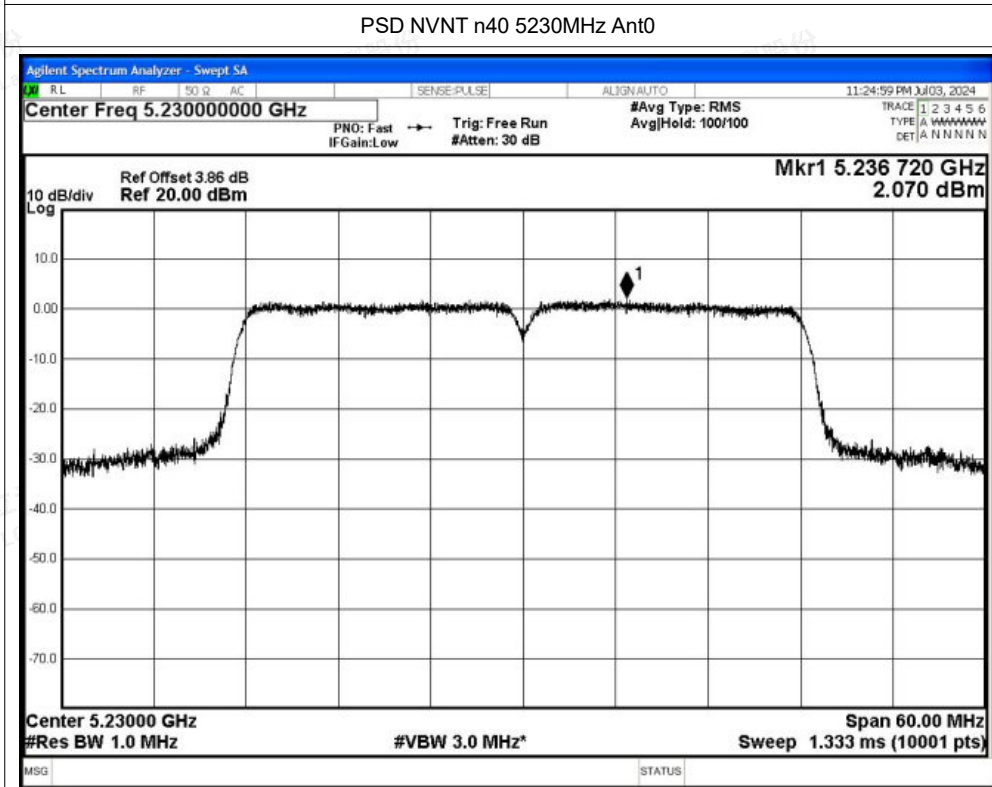
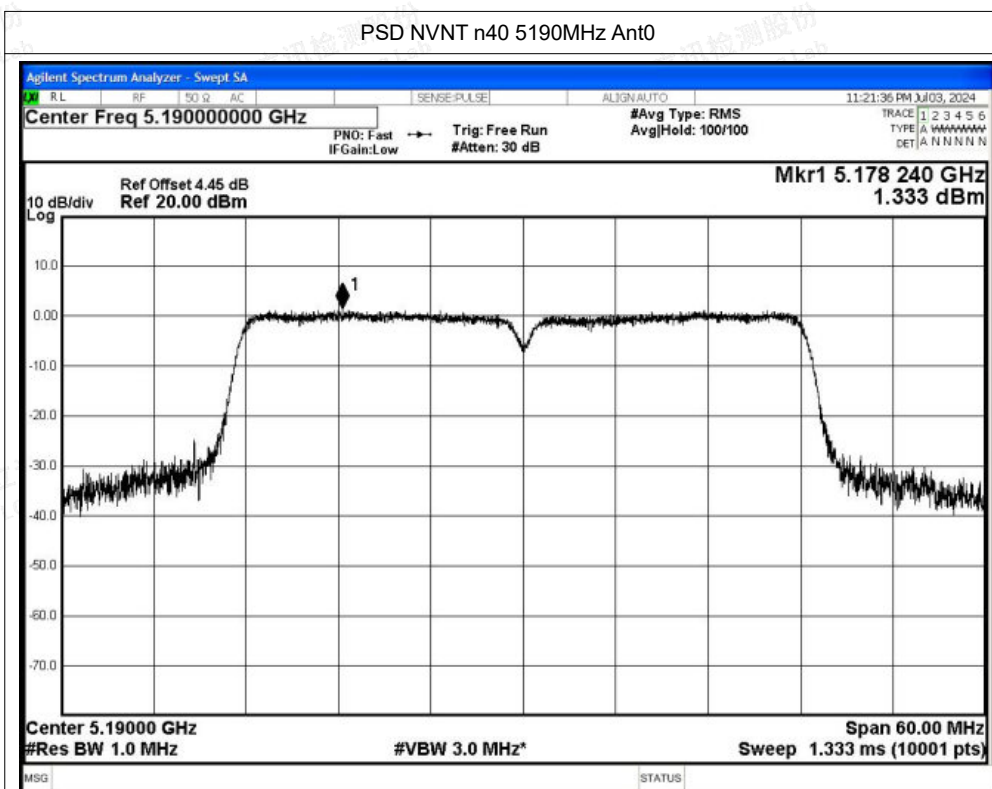
PSD NVNT a 5240MHz Ant0



PSD NVNT n20 5180MHz Ant0



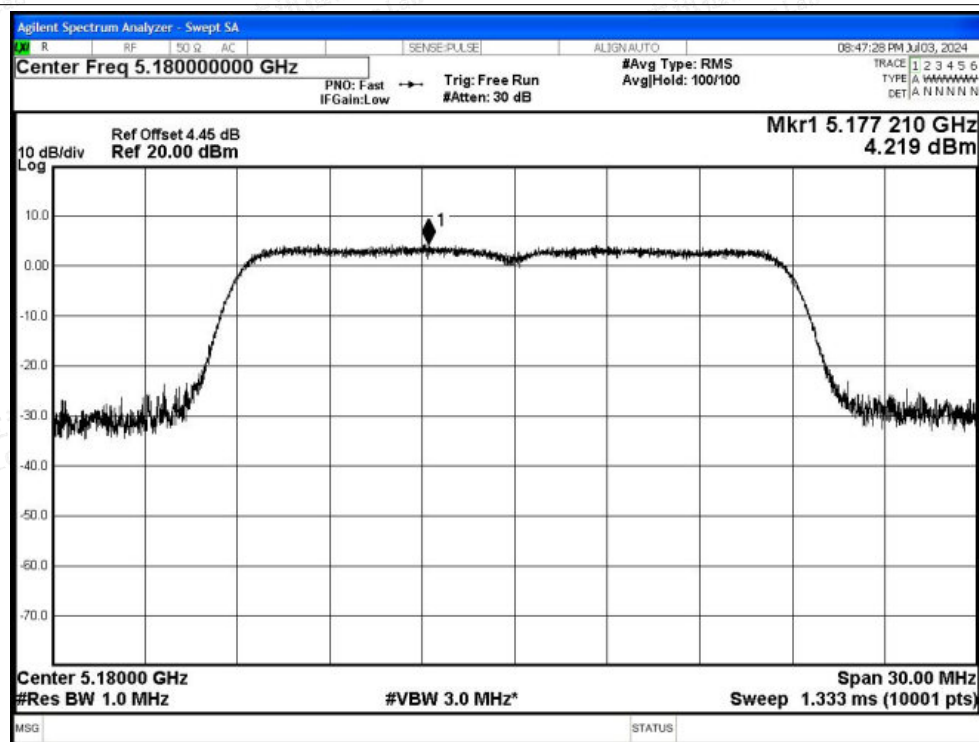




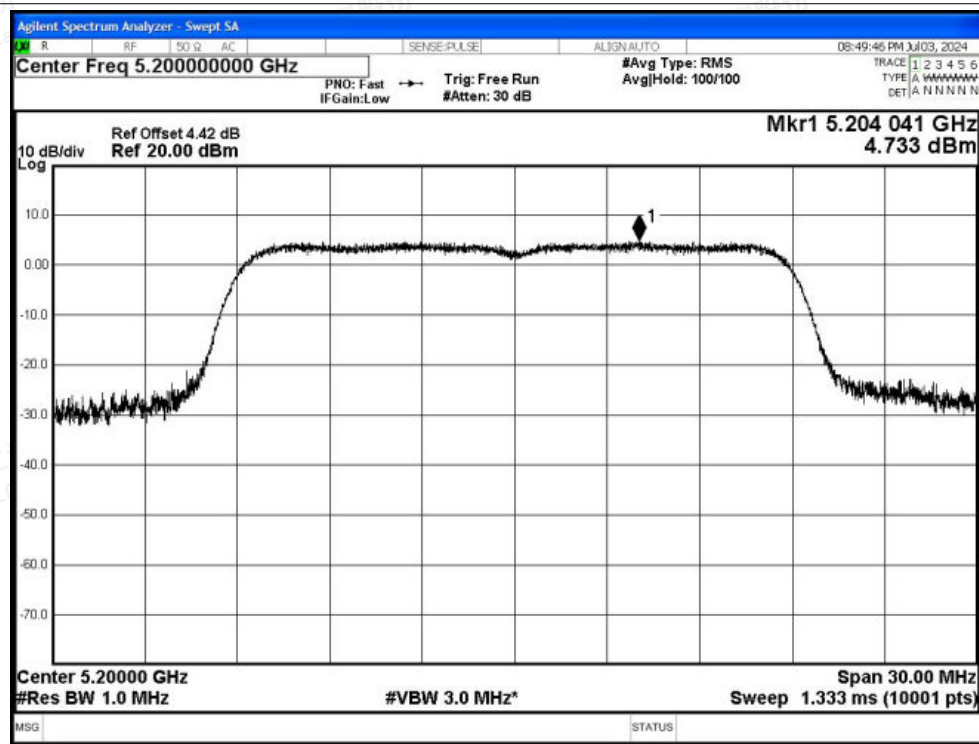
Shenzhen LCS Compliance Testing Laboratory Ltd.
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518000, China
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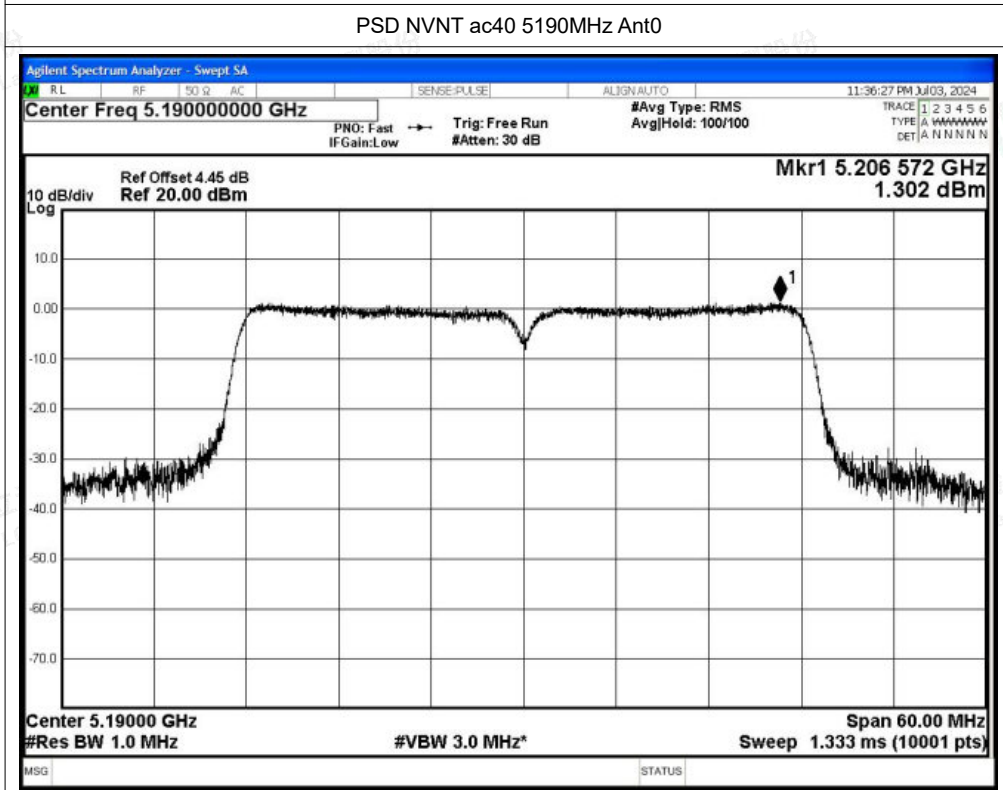
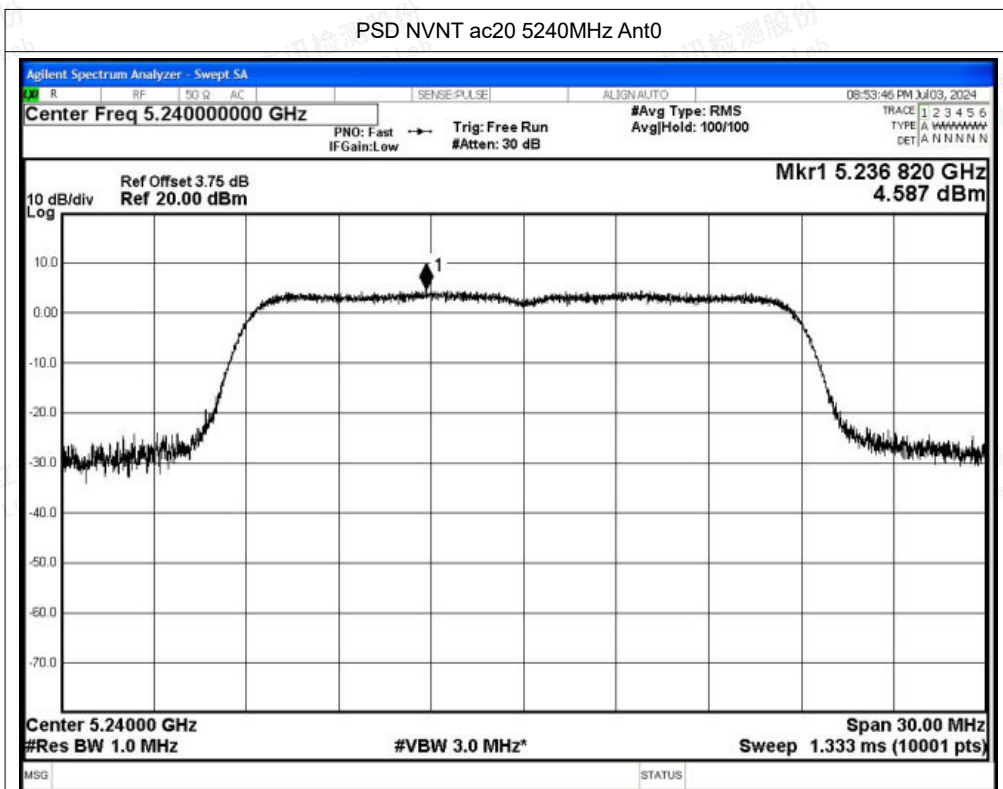


PSD NVNT ac20 5180MHz Ant0



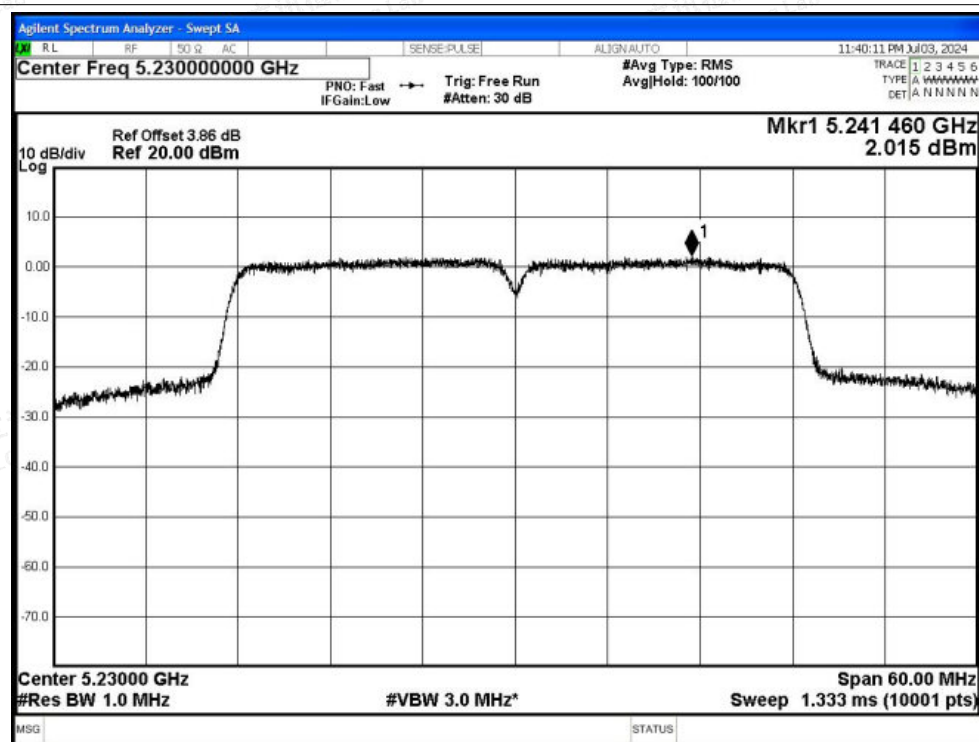
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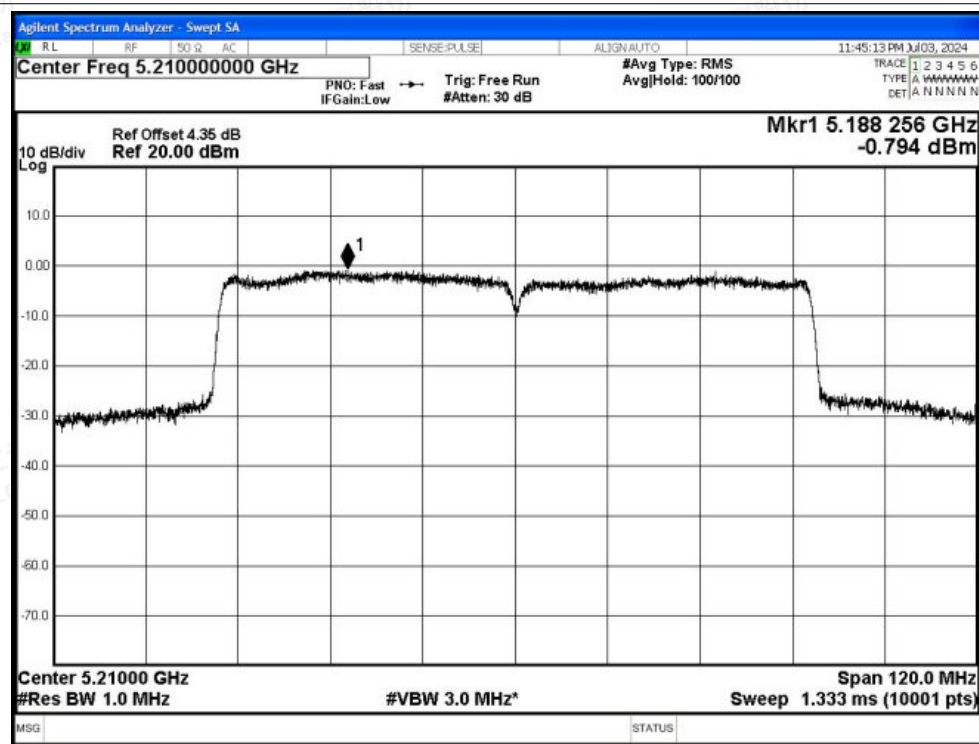




PSD NVNT ac40 5230MHz Ant0



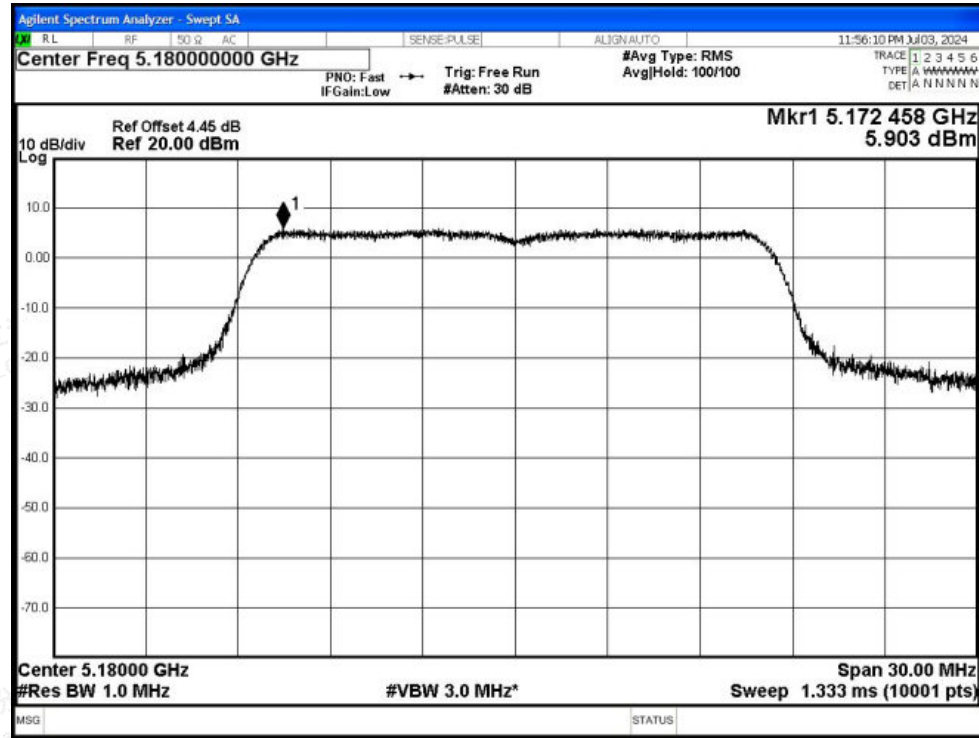
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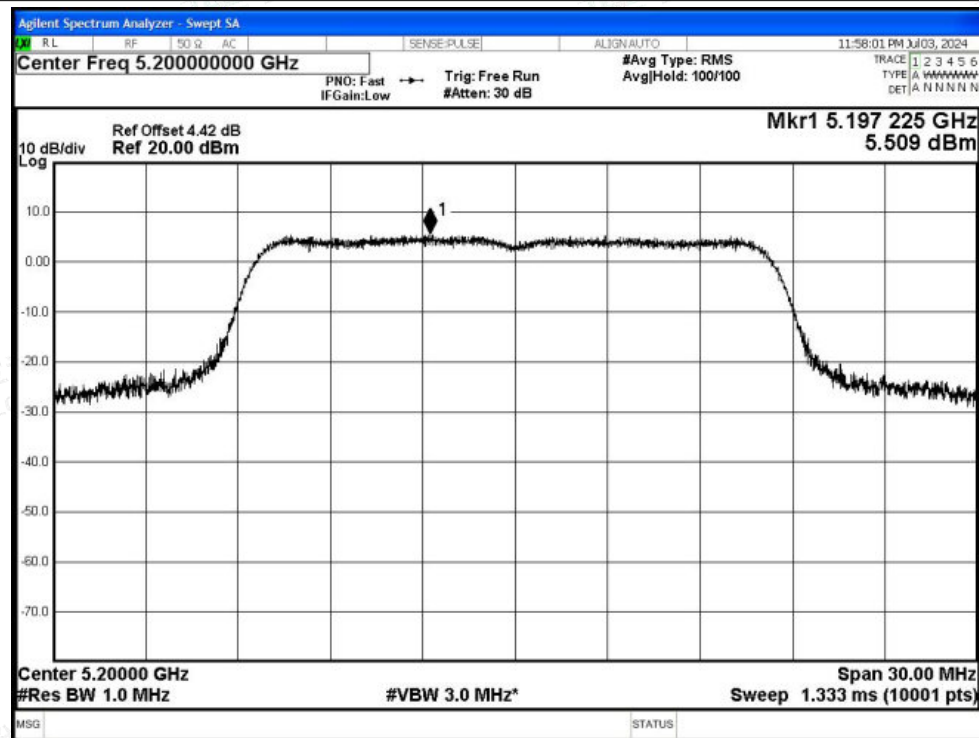


Test Graphs

PSD NVNT a 5180MHz Ant1

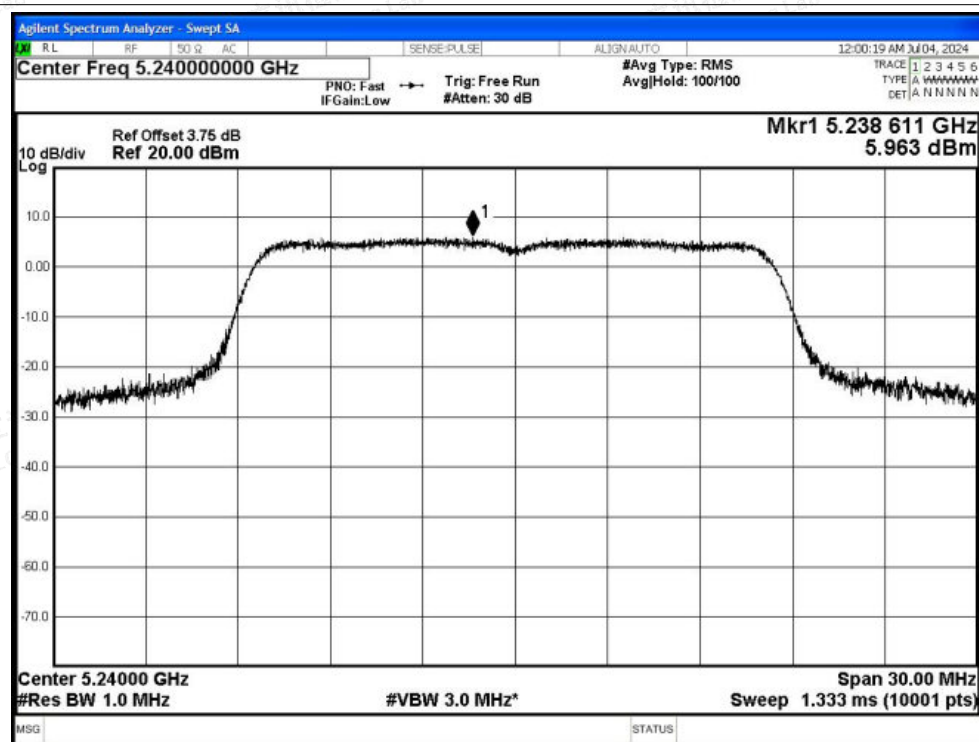


PSD NVNT a 5200MHz Ant1

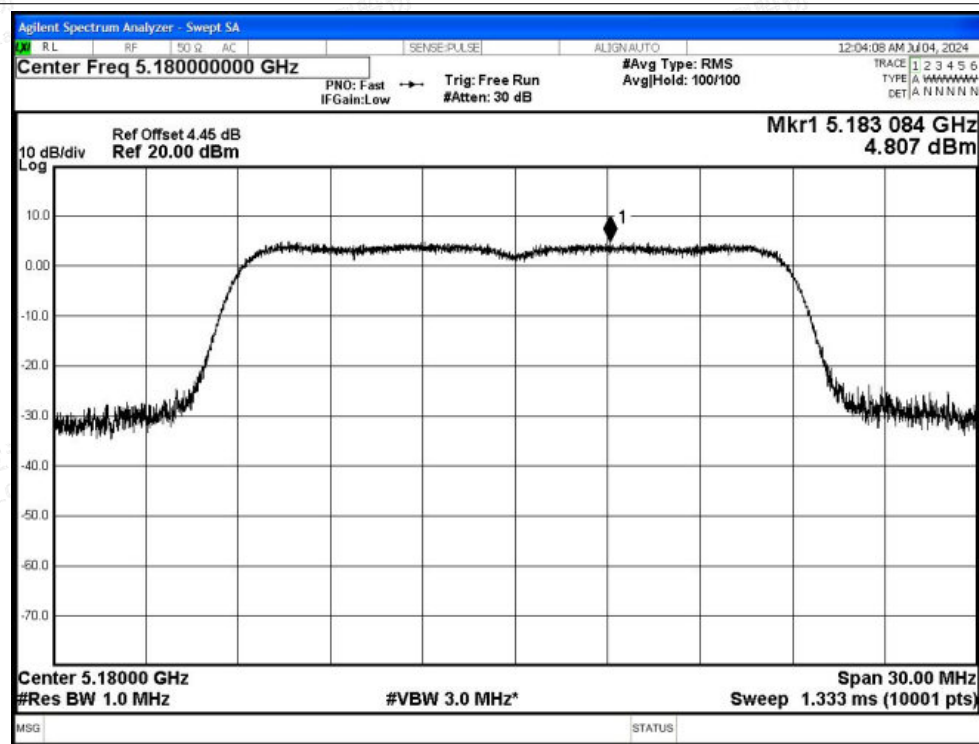


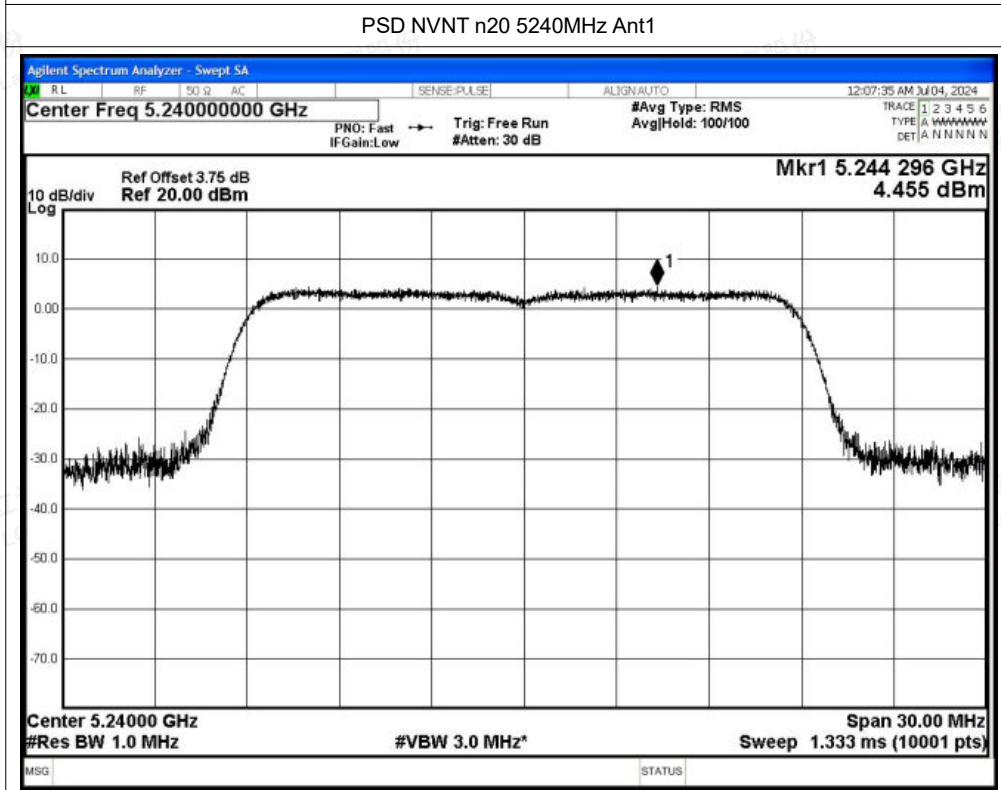
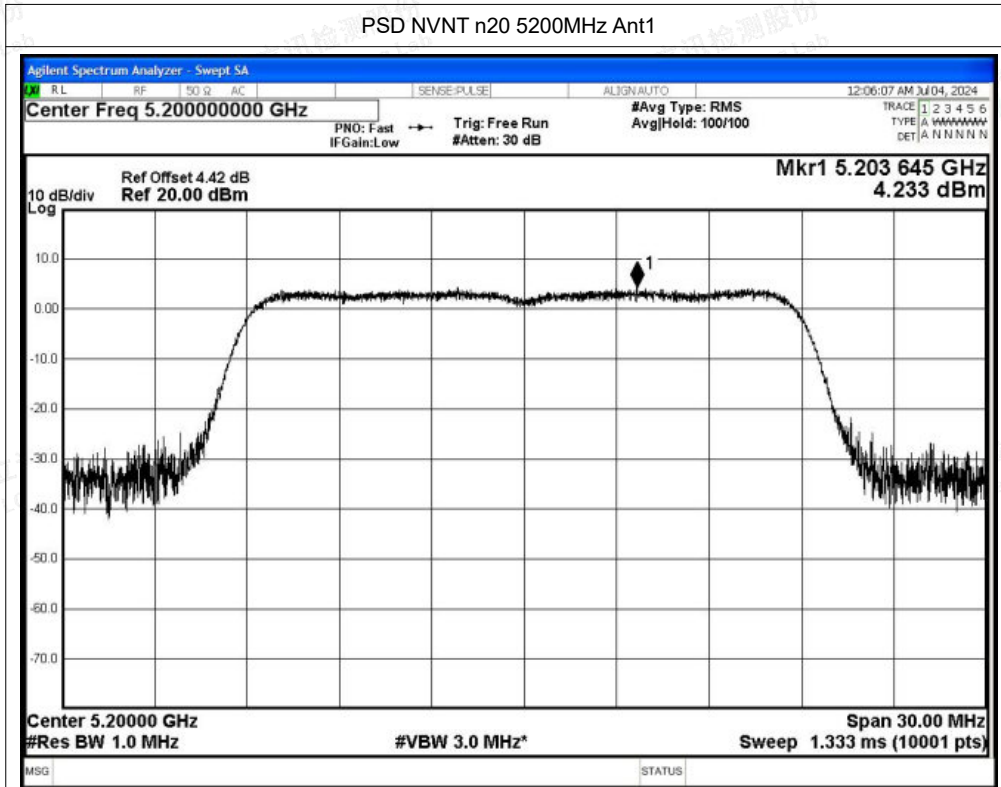


PSD NVNT a 5240MHz Ant1



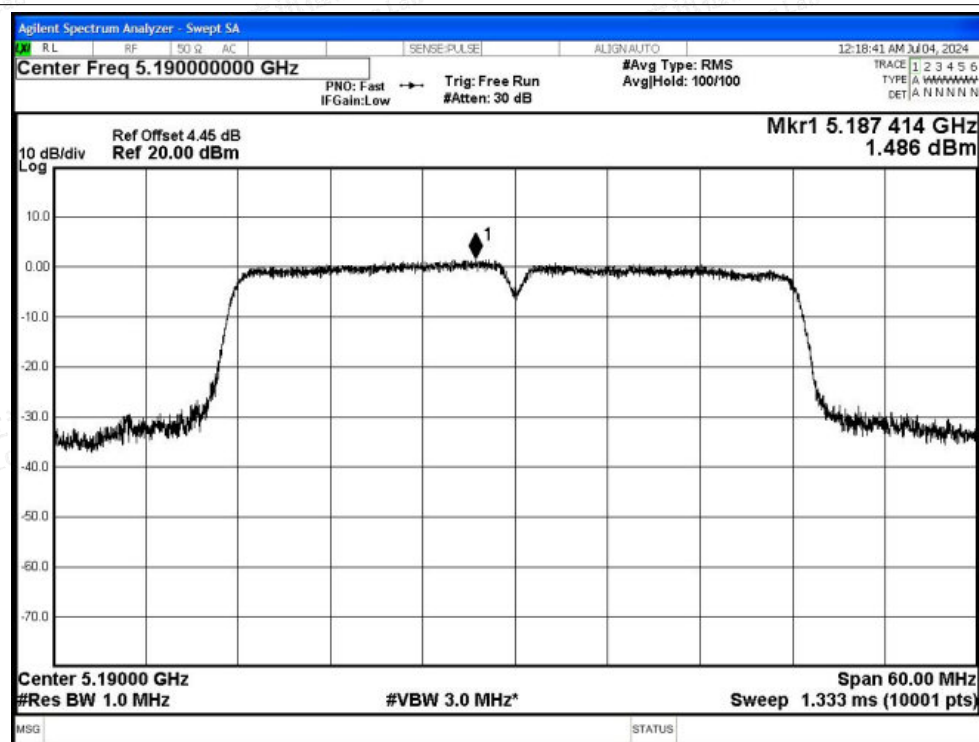
PSD NVNT n20 5180MHz Ant1



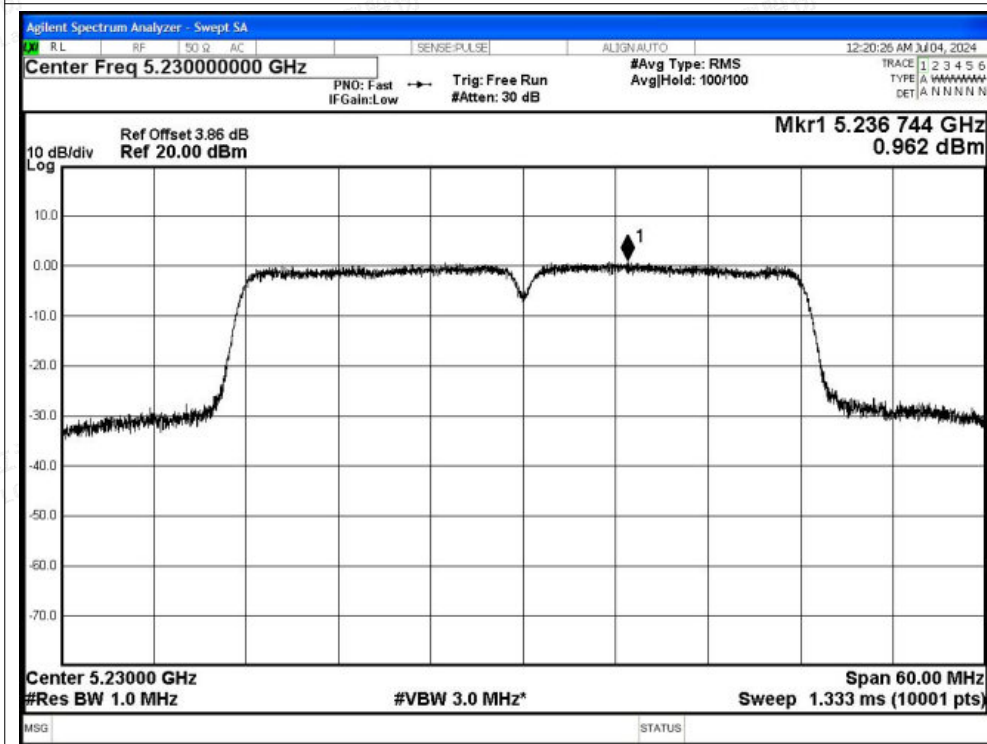




PSD NVNT n40 5190MHz Ant1

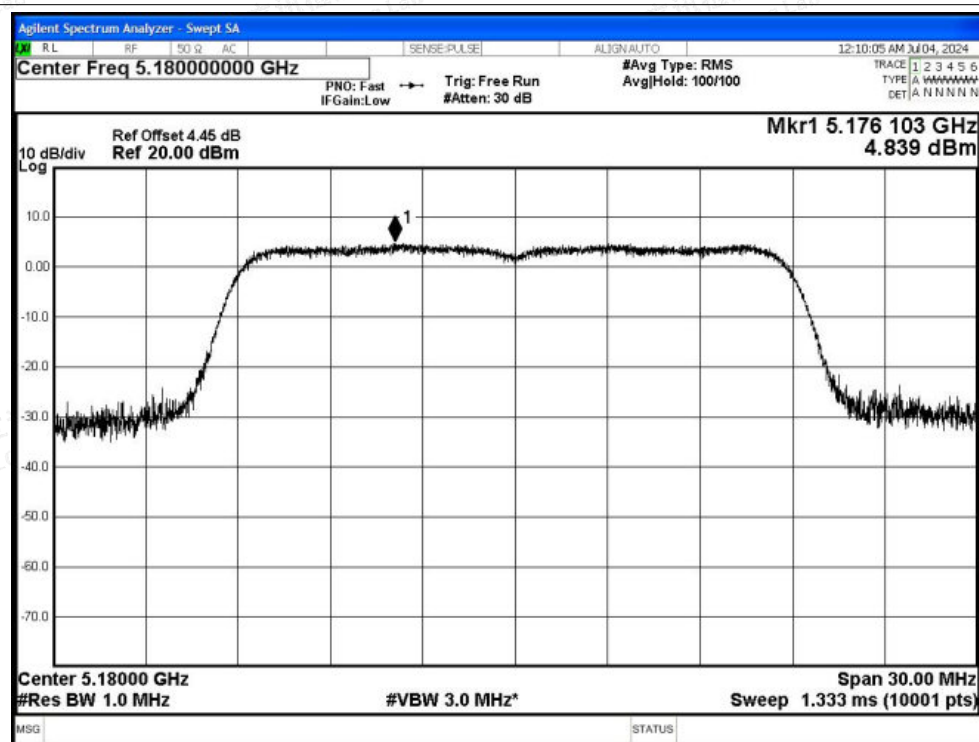


PSD NVNT n40 5230MHz Ant1

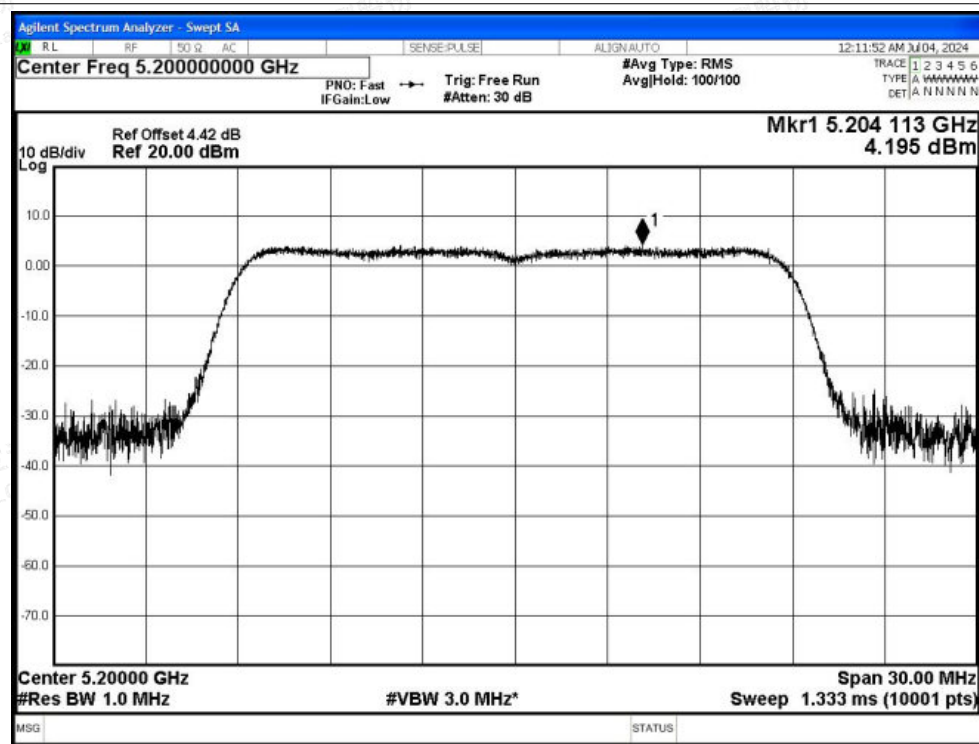




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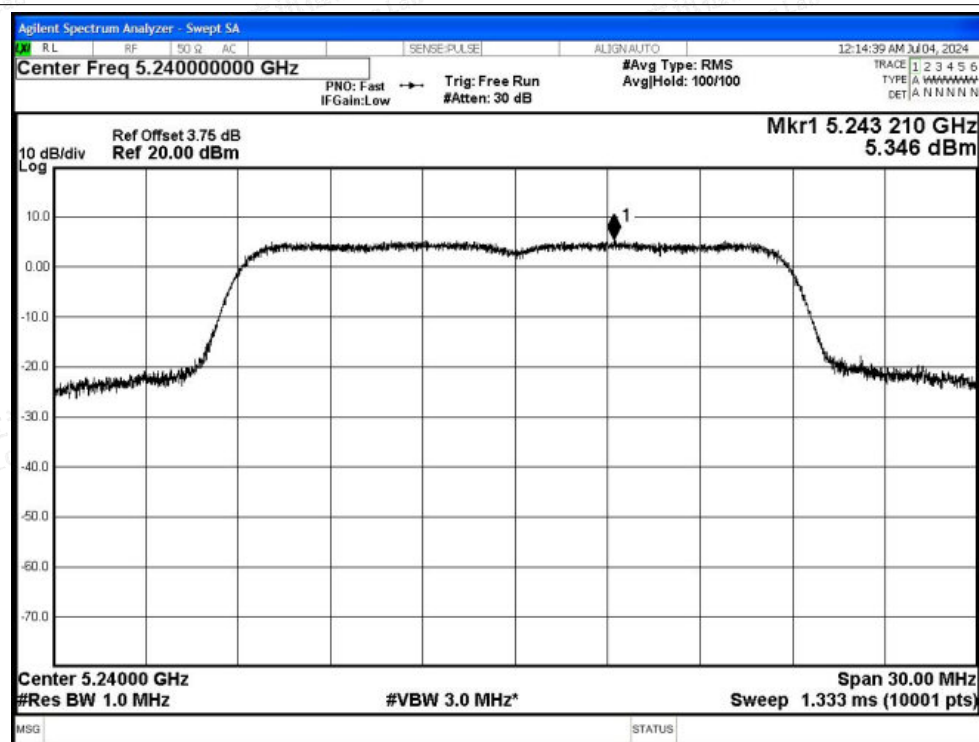


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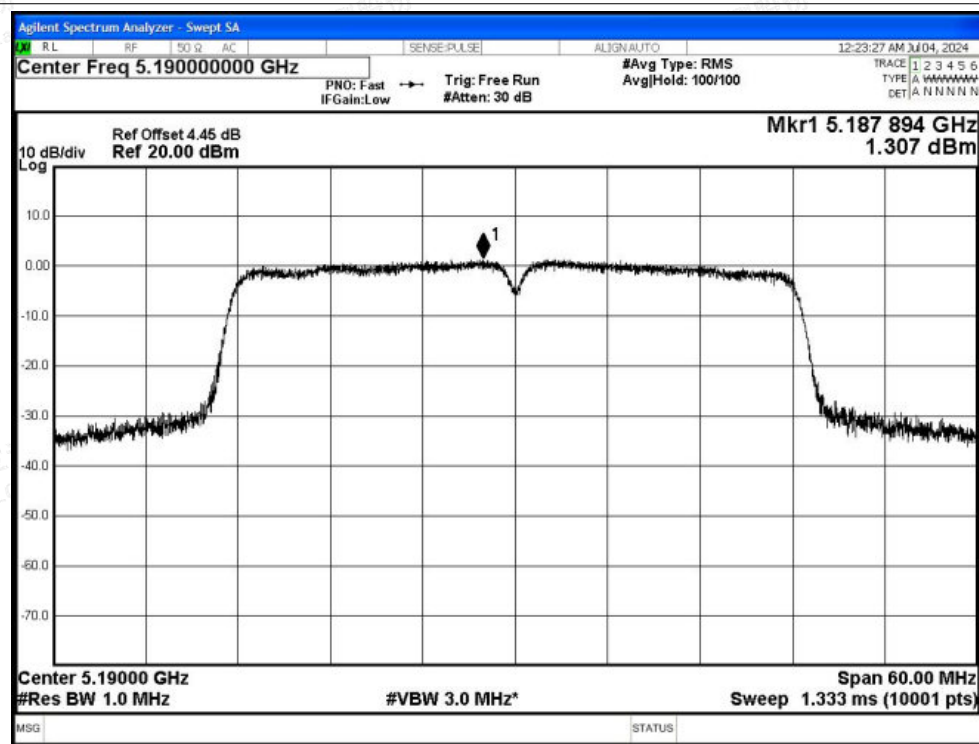




PSD NVNT ac20 5240MHz Ant1

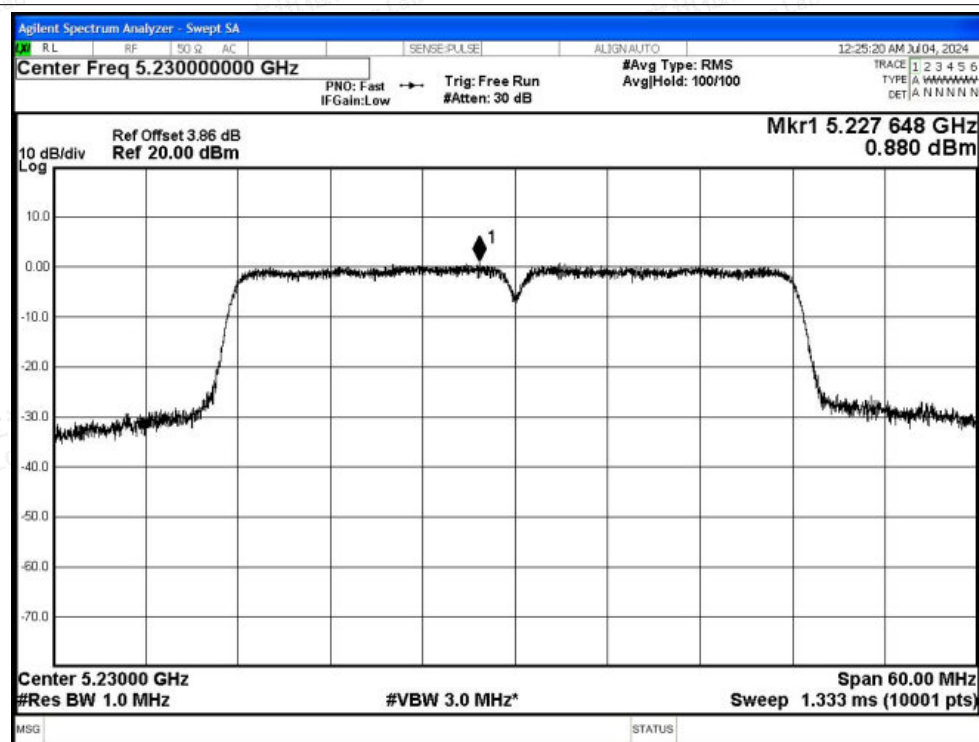


PSD NVNT ac40 5190MHz Ant1





PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

