

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	80.42	0.95	5.18
NVNT	a	5200	Ant1	80.58	0.94	5.18
NVNT	a	5240	Ant1	80.79	0.93	5.17
NVNT	a	5180	Ant2	80.63	0.94	5.17
NVNT	a	5200	Ant2	80.79	0.93	5.17
NVNT	a	5240	Ant2	80.62	0.94	5.17
NVNT	ac20	5180	Sum	87.13	0.6	3.11
NVNT	ac20	5200	Sum	87.13	0.6	3.11
NVNT	ac20	5240	Sum	86.99	0.61	3.12
NVNT	ac40	5190	Sum	86	0.66	3.32
NVNT	ac40	5230	Sum	86.64	0.62	3.32
NVNT	ac80	5210	Sum	85.65	0.67	3.45
NVNT	n20	5180	Sum	80.29	0.95	5.17
NVNT	n20	5200	Sum	80.96	0.92	5.17
NVNT	n20	5240	Sum	80.46	0.94	5.17
NVNT	n40	5190	Sum	87.44	0.58	2.93
NVNT	n40	5230	Sum	88.02	0.55	2.93

Test Graphs

Duty Cycle NVNT a 5180MHz Ant1	
1	0.000000
2	0.000000
3	0.000000
4	0.000000
5	0.000000
6	0.000000
7	0.000000
8	0.000000
9	0.000000
10	0.000000
11	0.000000
12	0.000000
13	0.000000
14	0.000000
15	0.000000
16	0.000000
17	0.000000
18	0.000000
19	0.000000
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23	0.000000
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26	0.000000
27	0.000000
28	0.000000
29	0.000000
30	0.000000
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32	0.000000
33	0.000000
34	0.000000
35	0.000000
36	0.000000
37	0.000000
38	0.000000
39	0.000000
40	0.000000
41	0.000000
42	0.000000
43	0.000000
44	0.000000
45	0.000000
46	0.000000
47	0.000000
48	0.000000
49	0.000000
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87	0.000000
88	0.000000
89	0.000000
90	0.000000
91	0.000000
92	0.000000
93	0.000000
94	0.000000
95	0.000000
96	0.000000
97	0.000000
98	0.000000
99	0.000000
100	0.000000



Agilent Spectrum Analyzer - Swept SA



Duty Cycle NVNT a 5240MHz Ant1

Duty Cycle NVNT a 5200MHz Ant2

Duty Cycle NVNT ac20 5180MHz Sum

Duty Cycle NVNT ac20 5200MHz Sum

Duty Cycle NVNT ac40 5190MHz Sum

Duty Cycle NVNT ac80 5210MHz Sum			
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Duty Cycle NVNT n20 5200MHz Sum

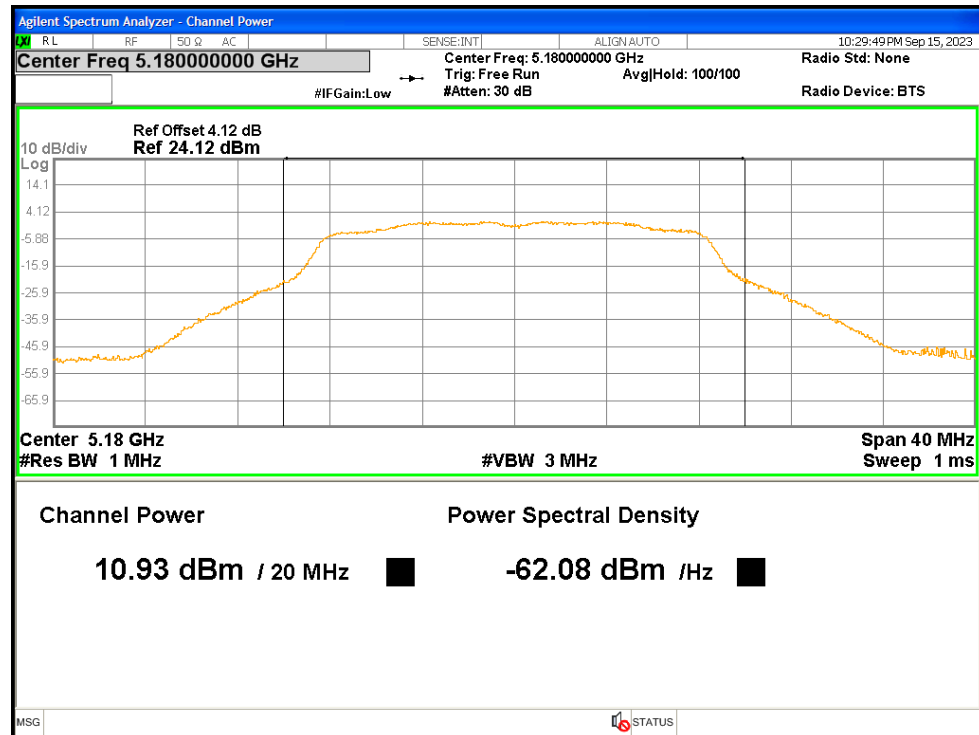
Duty Cycle NVNT n40 5190MHz Sum

2. Maximum Conducted Output Power

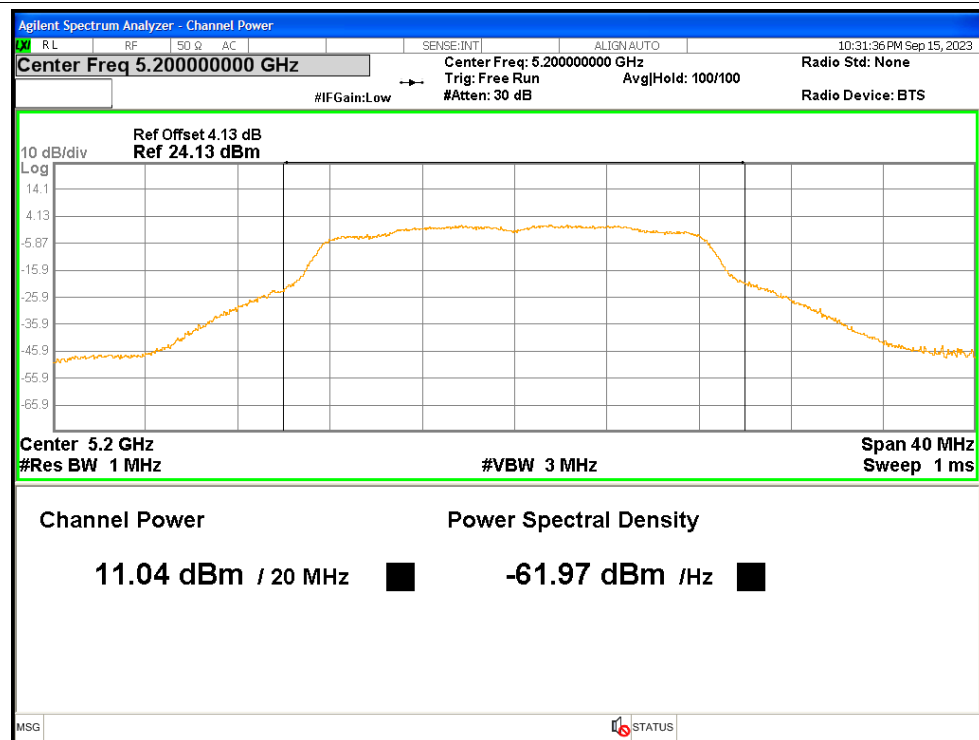
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.93	0.95	11.88	<=24	Pass
NVNT	a	5200	Ant1	11.04	0.94	11.98	<=24	Pass
NVNT	a	5240	Ant1	12.36	0.93	13.29	<=24	Pass
NVNT	a	5180	Ant2	12.04	0.94	12.98	<=24	Pass
NVNT	a	5200	Ant2	12.43	0.93	13.36	<=24	Pass
NVNT	a	5240	Ant2	12.33	0.94	13.27	<=24	Pass
NVNT	ac20	5180	Ant1	10.2	0.6	10.8	<=24	Pass
NVNT	ac20	5180	Ant2	11.09	0.6	11.69	<=24	Pass
NVNT	ac20	5180	Sum	13.68	0.6	14.28	<=24	Pass
NVNT	ac20	5200	Ant1	10.32	0.6	10.92	<=24	Pass
NVNT	ac20	5200	Ant2	11.48	0.6	12.08	<=24	Pass
NVNT	ac20	5200	Sum	13.95	0.6	14.55	<=24	Pass
NVNT	ac20	5240	Ant1	11.67	0.61	12.28	<=24	Pass
NVNT	ac20	5240	Ant2	11.46	0.61	12.07	<=24	Pass
NVNT	ac20	5240	Sum	14.58	0.61	15.19	<=24	Pass
NVNT	ac40	5190	Ant1	8.1	0.66	8.76	<=24	Pass
NVNT	ac40	5190	Ant2	6.46	0.66	7.12	<=24	Pass
NVNT	ac40	5190	Sum	10.37	0.66	11.03	<=24	Pass
NVNT	ac40	5230	Ant1	8.97	0.62	9.59	<=24	Pass
NVNT	ac40	5230	Ant2	7.22	0.62	7.84	<=24	Pass
NVNT	ac40	5230	Sum	11.19	0.62	11.81	<=24	Pass
NVNT	ac80	5210	Ant1	8.46	0.67	9.13	<=24	Pass
NVNT	ac80	5210	Ant2	6.96	0.67	7.63	<=24	Pass
NVNT	ac80	5210	Sum	10.78	0.67	11.45	<=24	Pass
NVNT	n20	5180	Ant1	9.88	0.95	10.83	<=24	Pass
NVNT	n20	5180	Ant2	10.81	0.95	11.76	<=24	Pass
NVNT	n20	5180	Sum	13.38	0.95	14.33	<=24	Pass
NVNT	n20	5200	Ant1	9.94	0.92	10.86	<=24	Pass
NVNT	n20	5200	Ant2	11.25	0.92	12.17	<=24	Pass
NVNT	n20	5200	Sum	13.65	0.92	14.57	<=24	Pass
NVNT	n20	5240	Ant1	11.35	0.94	12.29	<=24	Pass
NVNT	n20	5240	Ant2	11.11	0.94	12.05	<=24	Pass
NVNT	n20	5240	Sum	14.24	0.94	15.18	<=24	Pass
NVNT	n40	5190	Ant1	8.19	0.58	8.77	<=24	Pass
NVNT	n40	5190	Ant2	6.6	0.58	7.18	<=24	Pass
NVNT	n40	5190	Sum	10.48	0.58	11.06	<=24	Pass
NVNT	n40	5230	Ant1	9.08	0.55	9.63	<=24	Pass
NVNT	n40	5230	Ant2	7.39	0.55	7.94	<=24	Pass
NVNT	n40	5230	Sum	11.33	0.55	11.88	<=24	Pass

Test Graphs

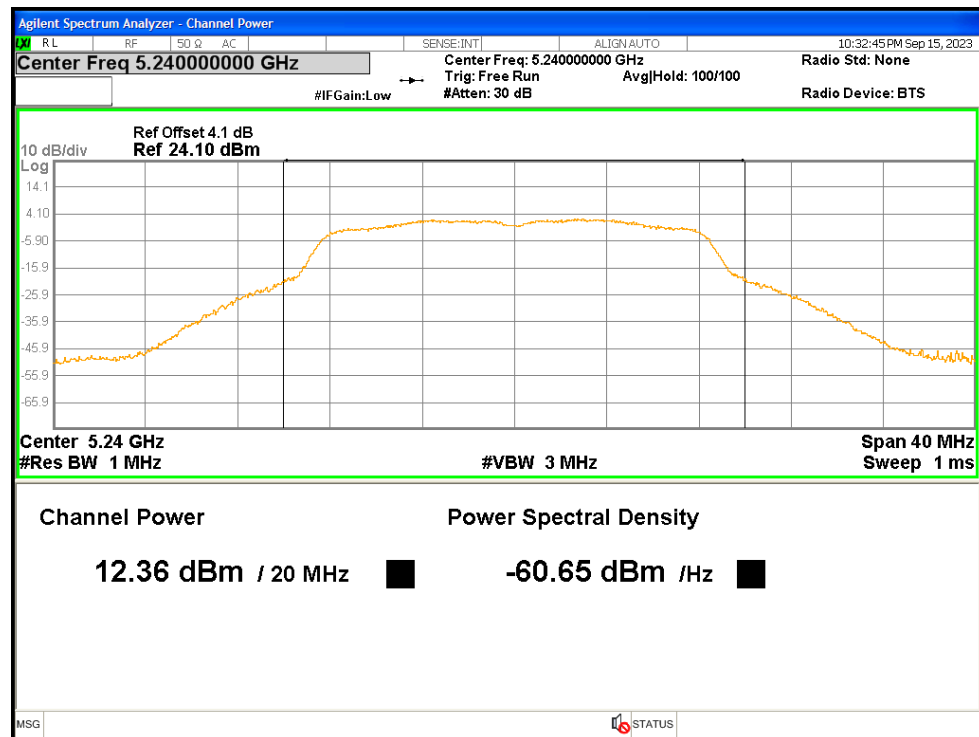
Power NVNT a 5180MHz Ant1



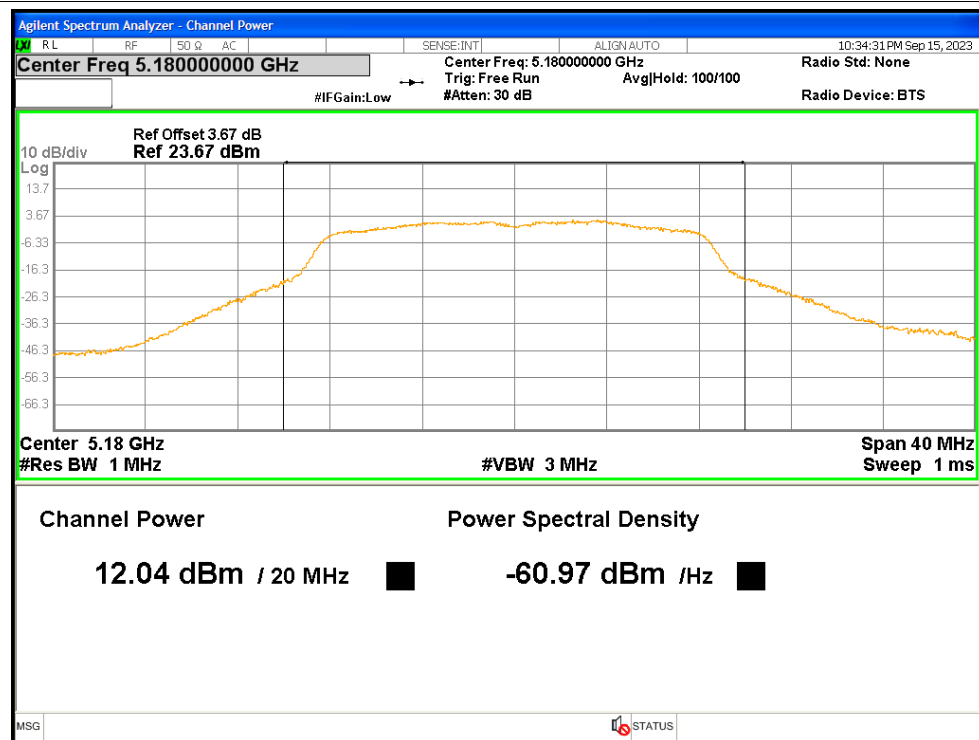
Power NVNT a 5200MHz Ant1



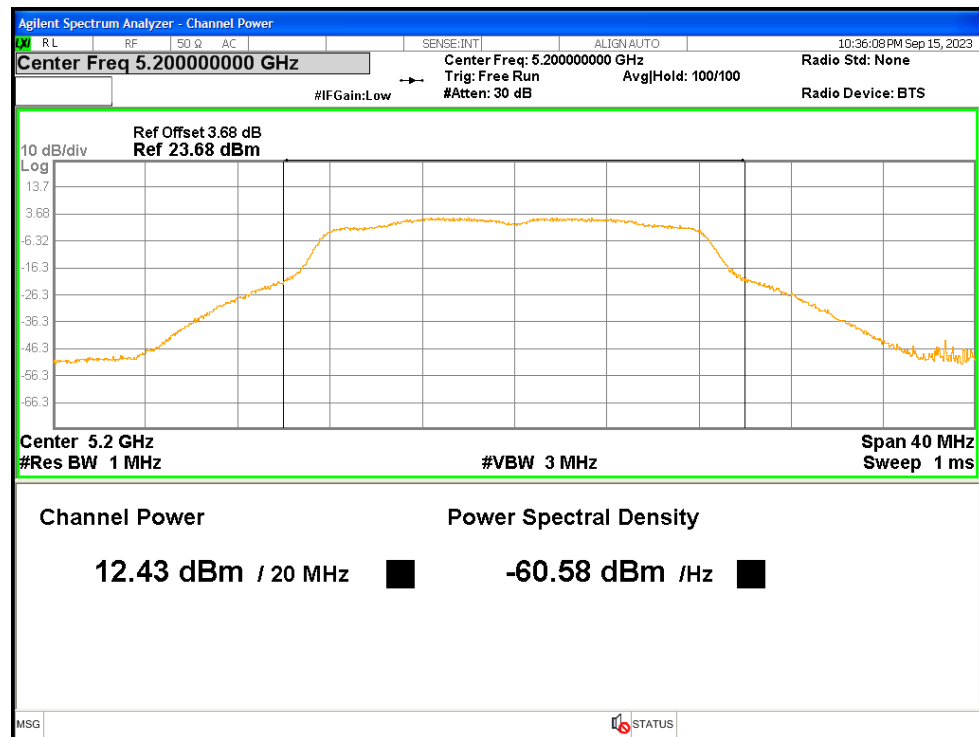
Power NVNT a 5240MHz Ant1



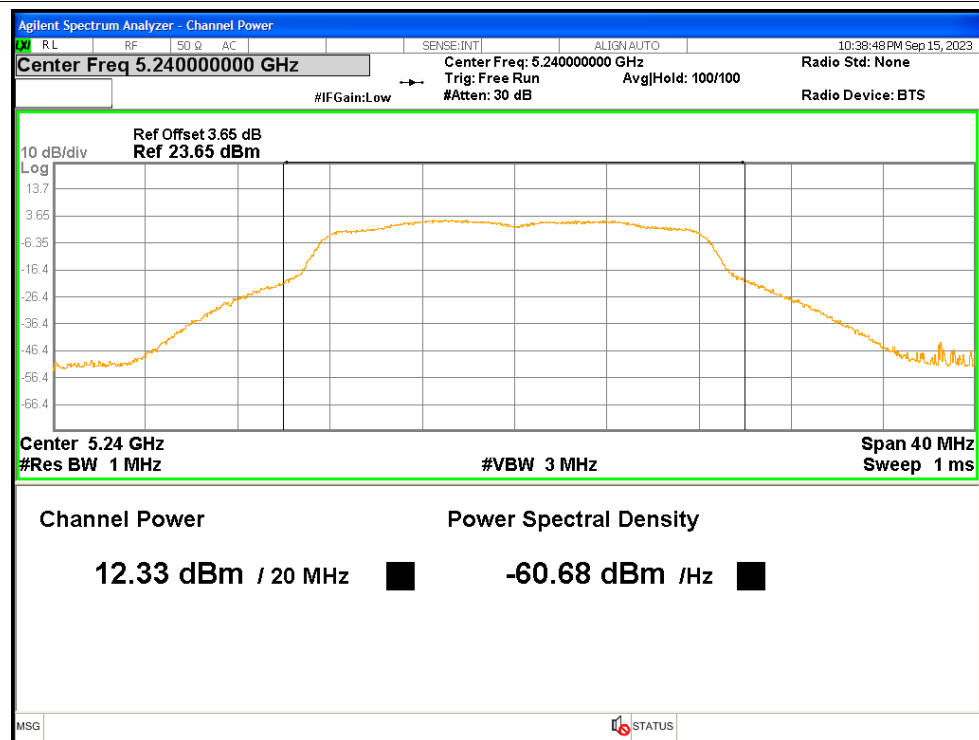
Power NVNT a 5180MHz Ant2



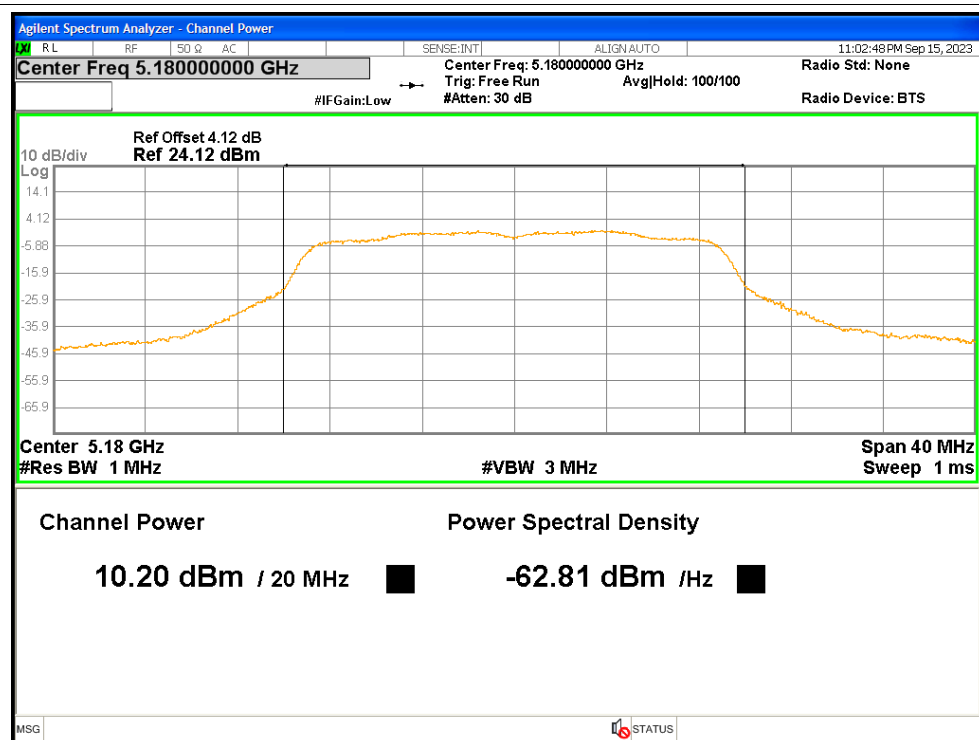
Power NVNT a 5200MHz Ant2



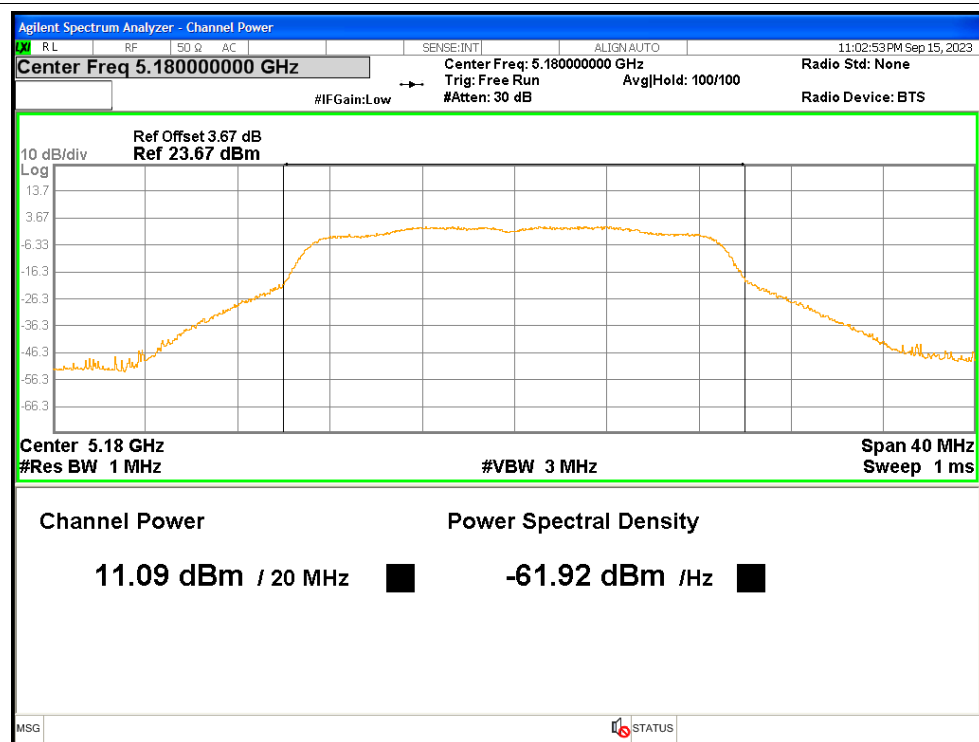
Power NVNT a 5240MHz Ant2



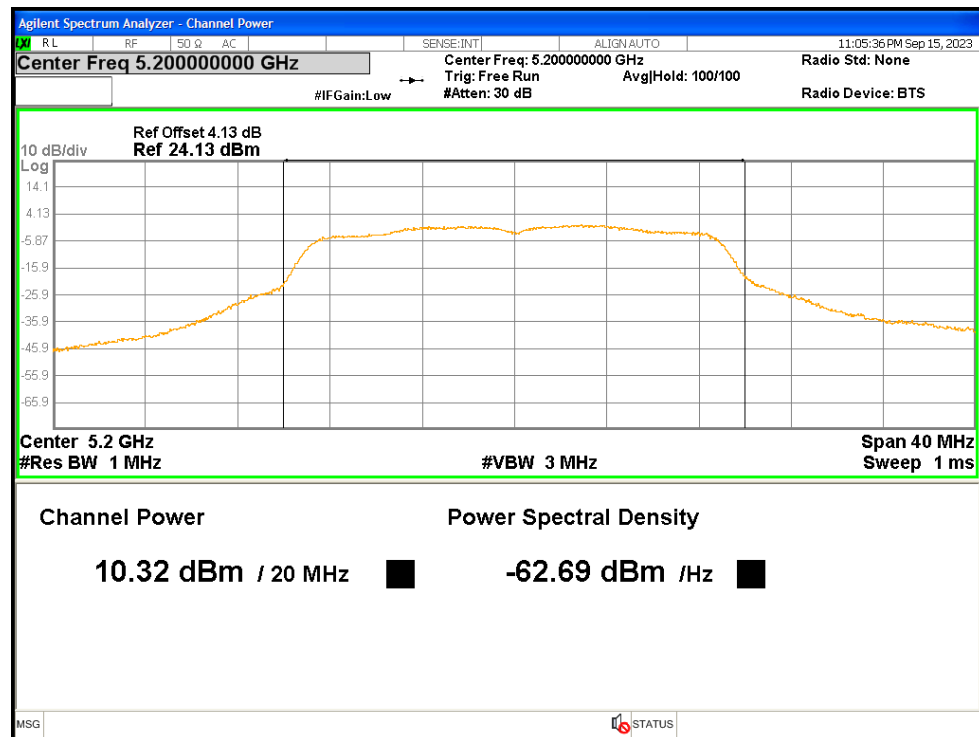
Power NVNT ac20 5180MHz Ant1



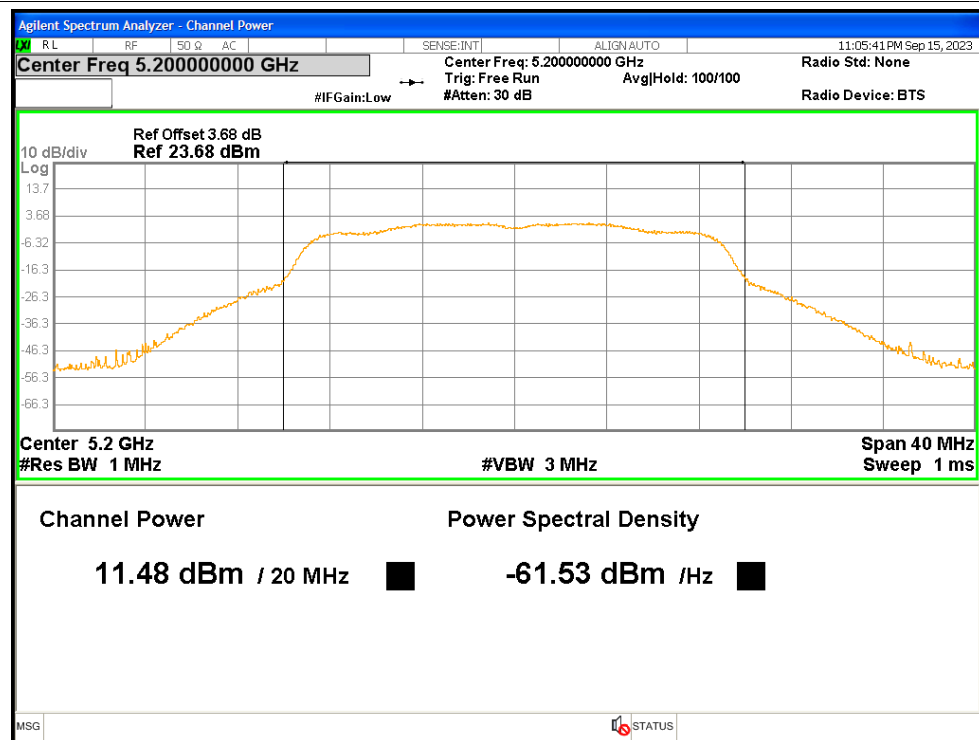
Power NVNT ac20 5180MHz Ant2



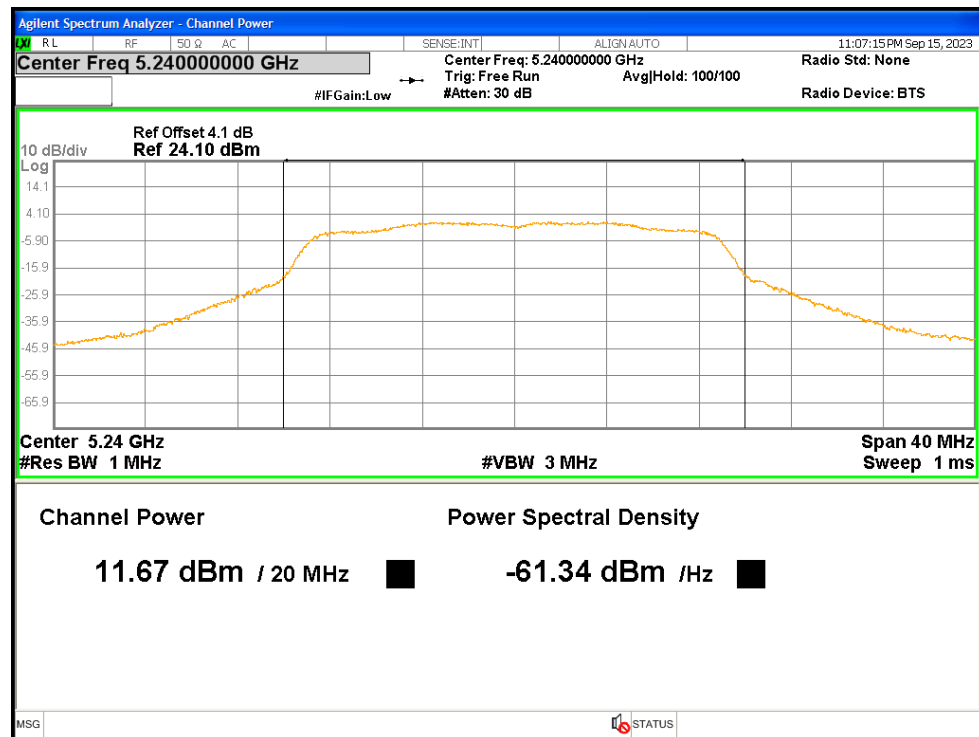
Power NVNT ac20 5200MHz Ant1



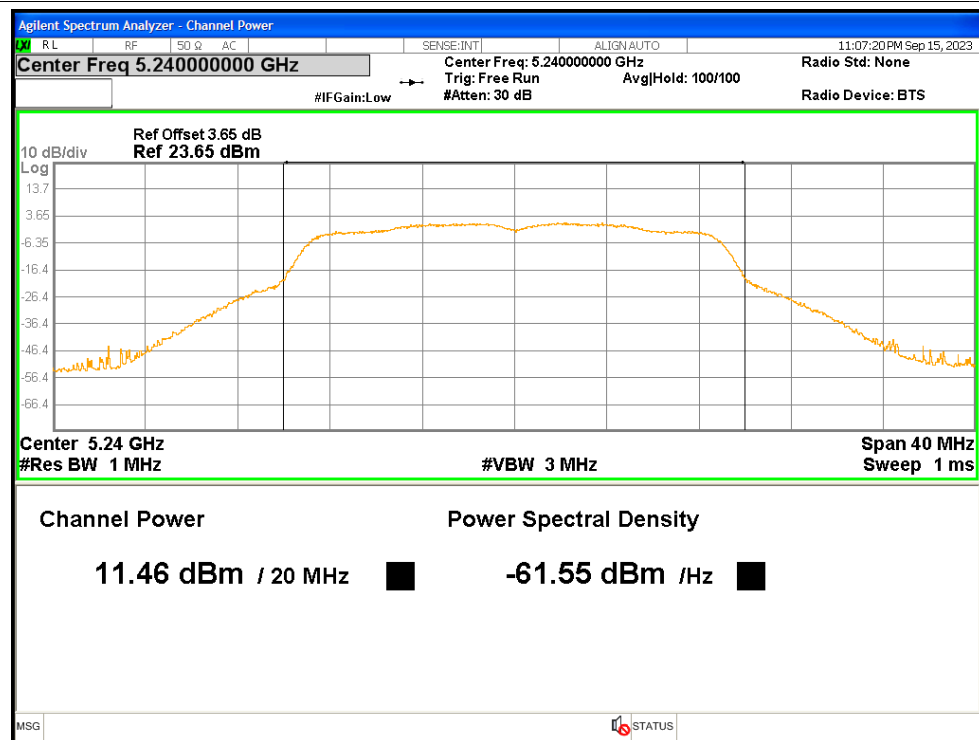
Power NVNT ac20 5200MHz Ant2



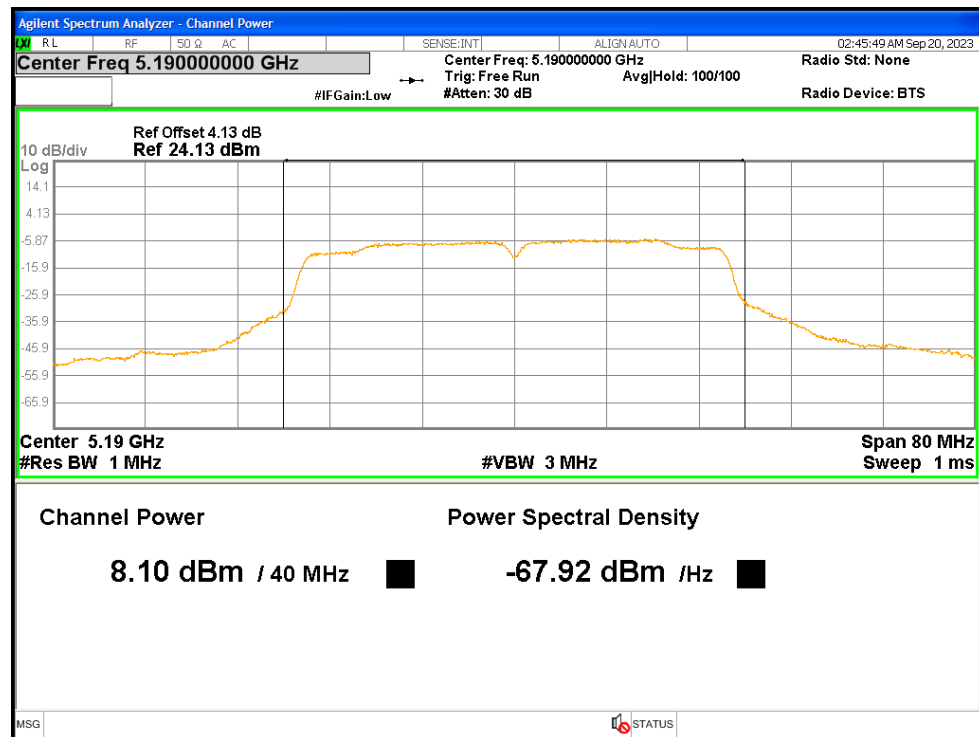
Power NVNT ac20 5240MHz Ant1



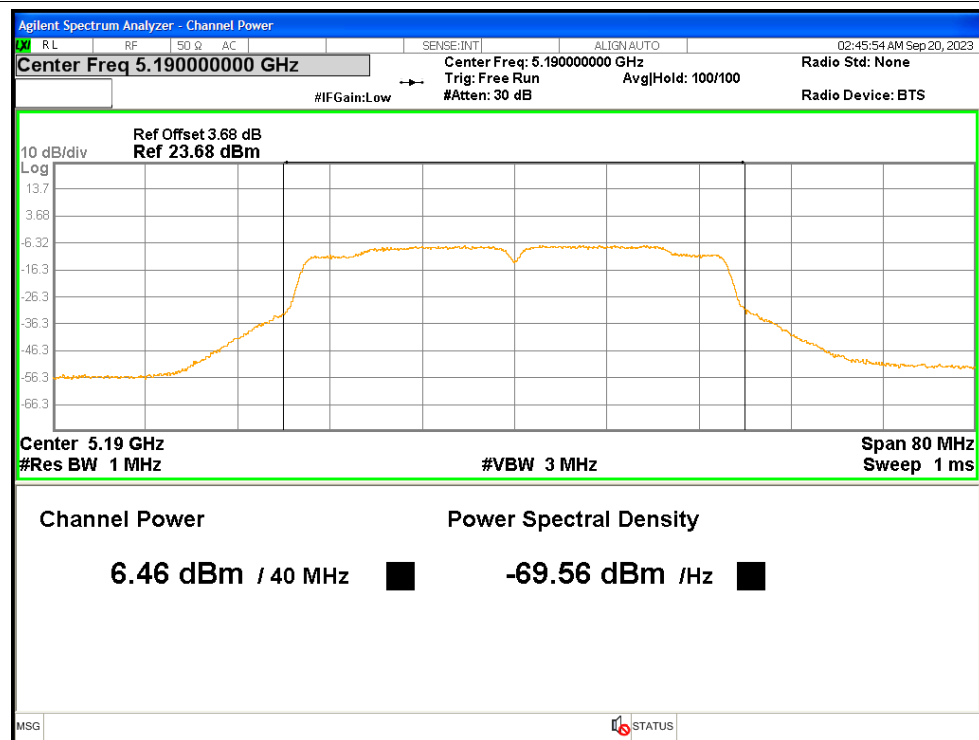
Power NVNT ac20 5240MHz Ant2



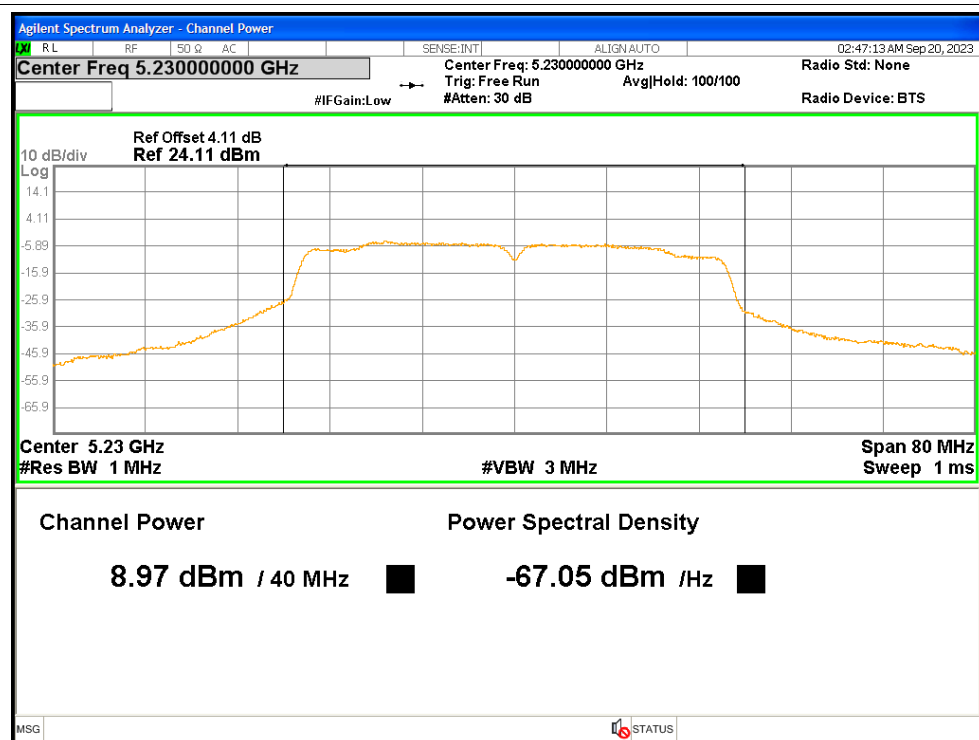
Power NVNT ac40 5190MHz Ant1



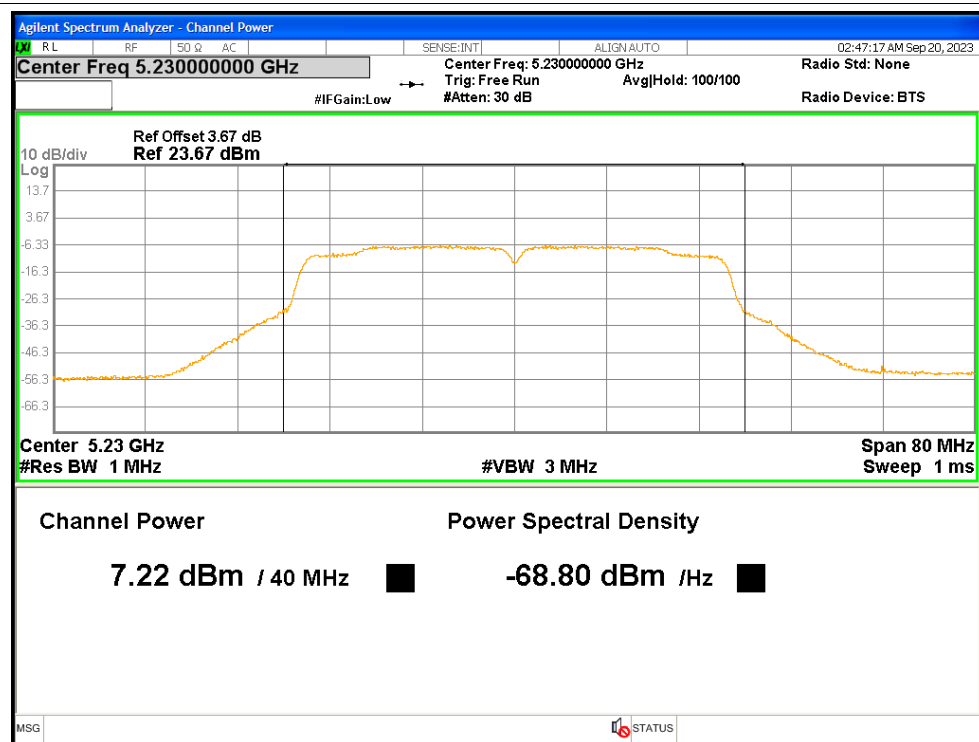
Power NVNT ac40 5190MHz Ant2



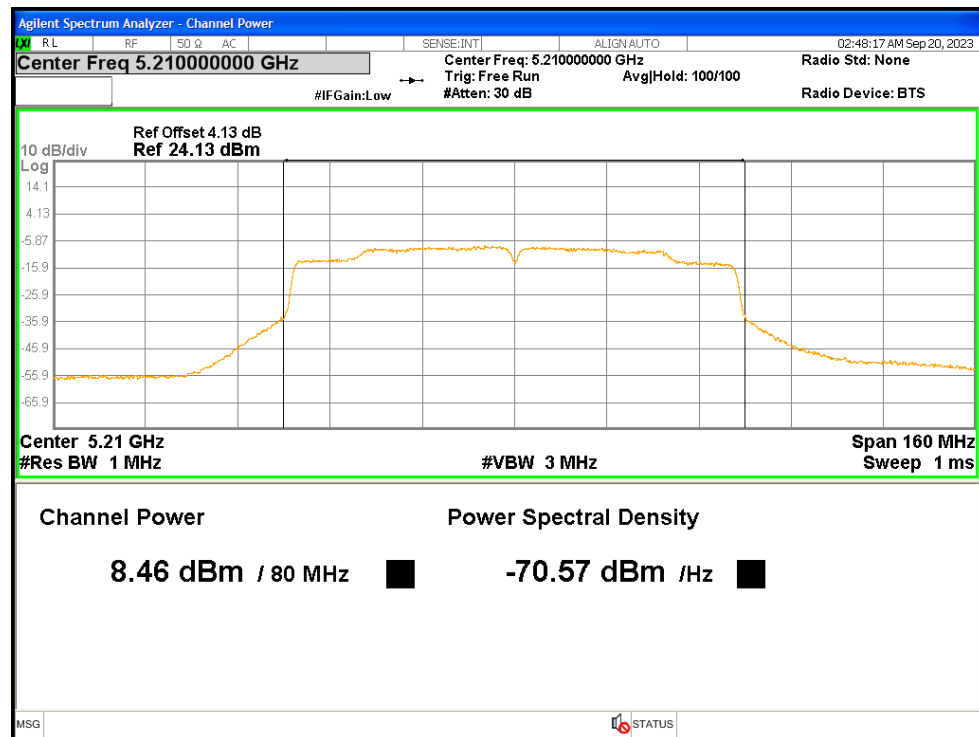
Power NVNT ac40 5230MHz Ant1



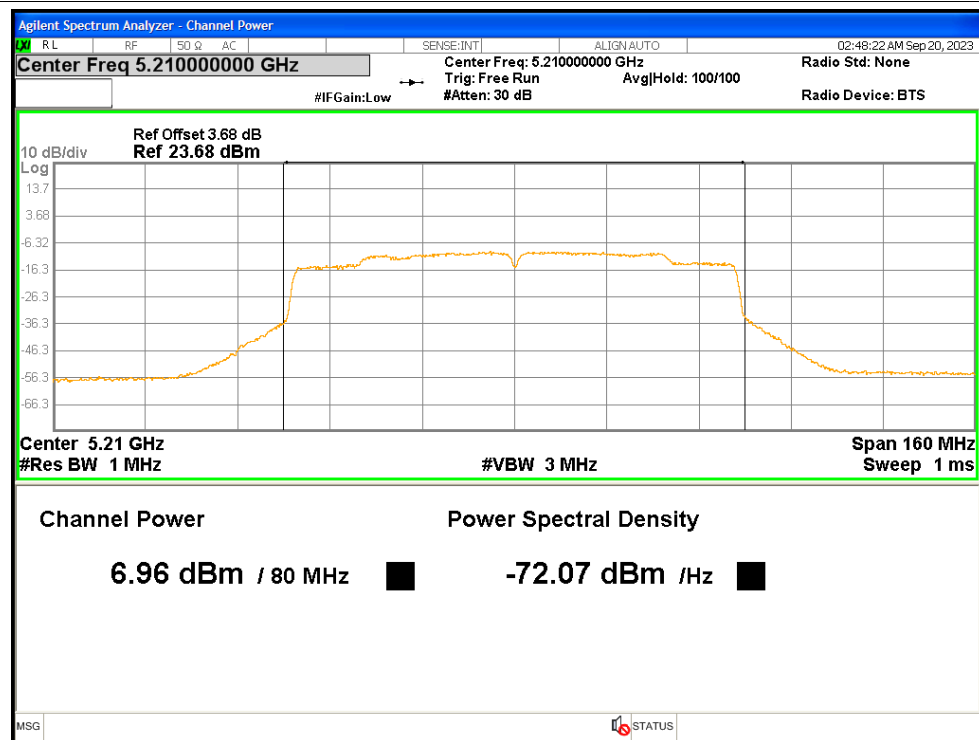
Power NVNT ac40 5230MHz Ant2



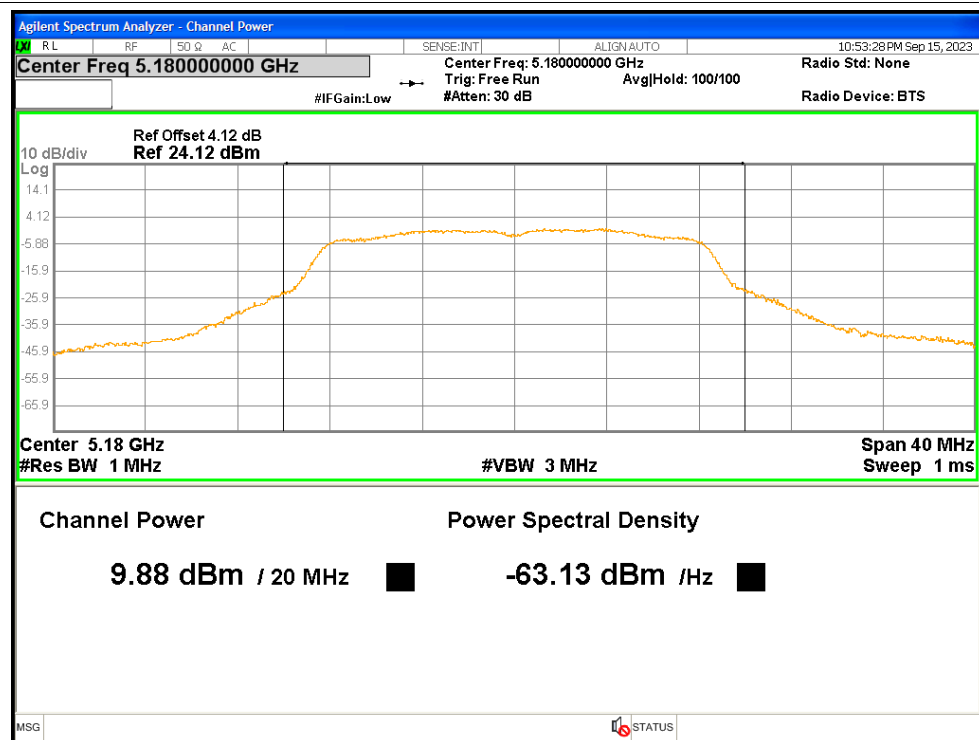
Power NVNT ac80 5210MHz Ant1



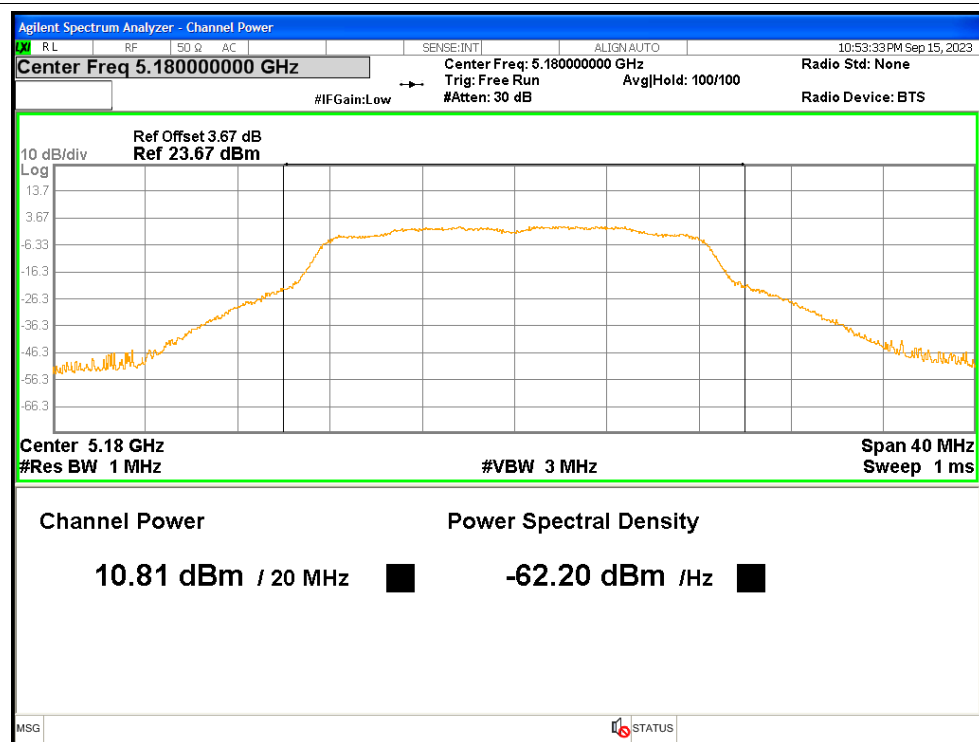
Power NVNT ac80 5210MHz Ant2



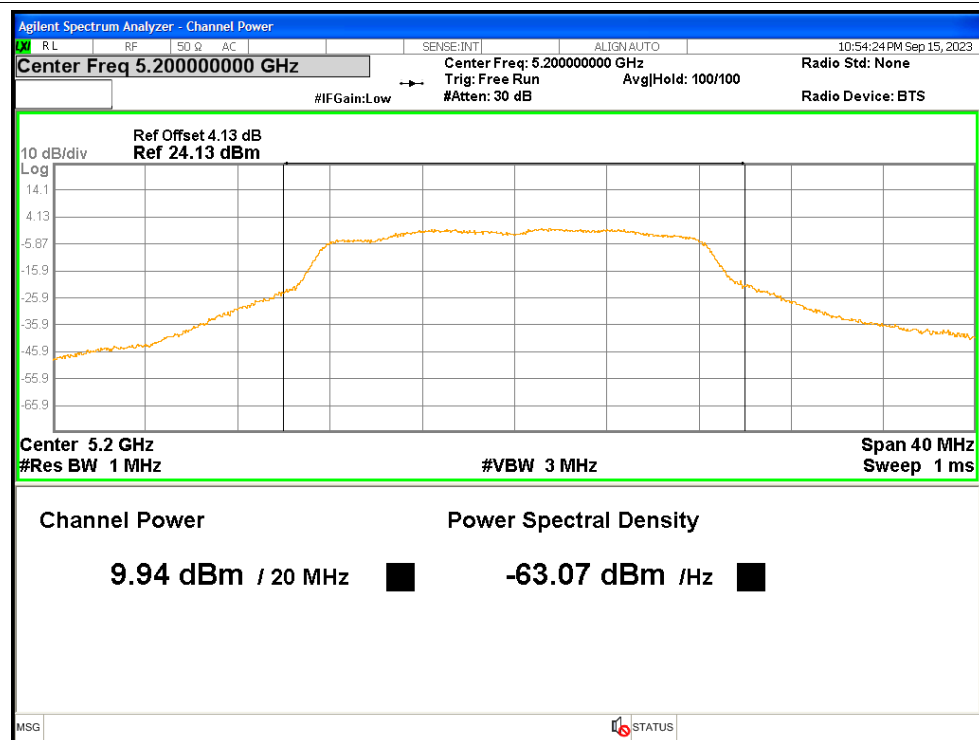
Power NVNT n20 5180MHz Ant1



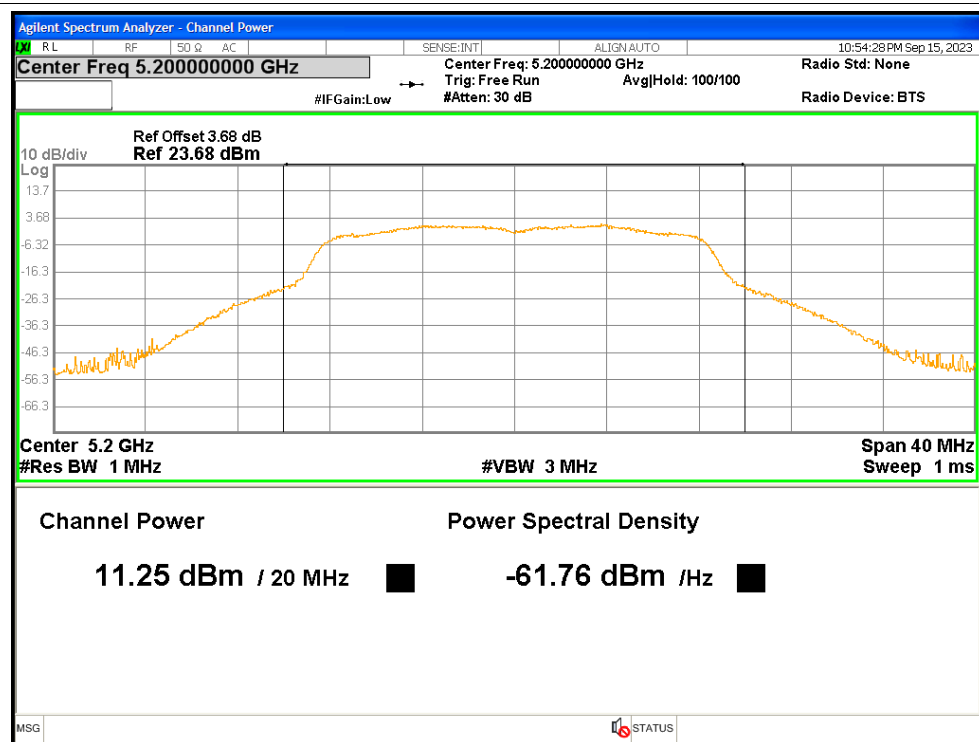
Power NVNT n20 5180MHz Ant2



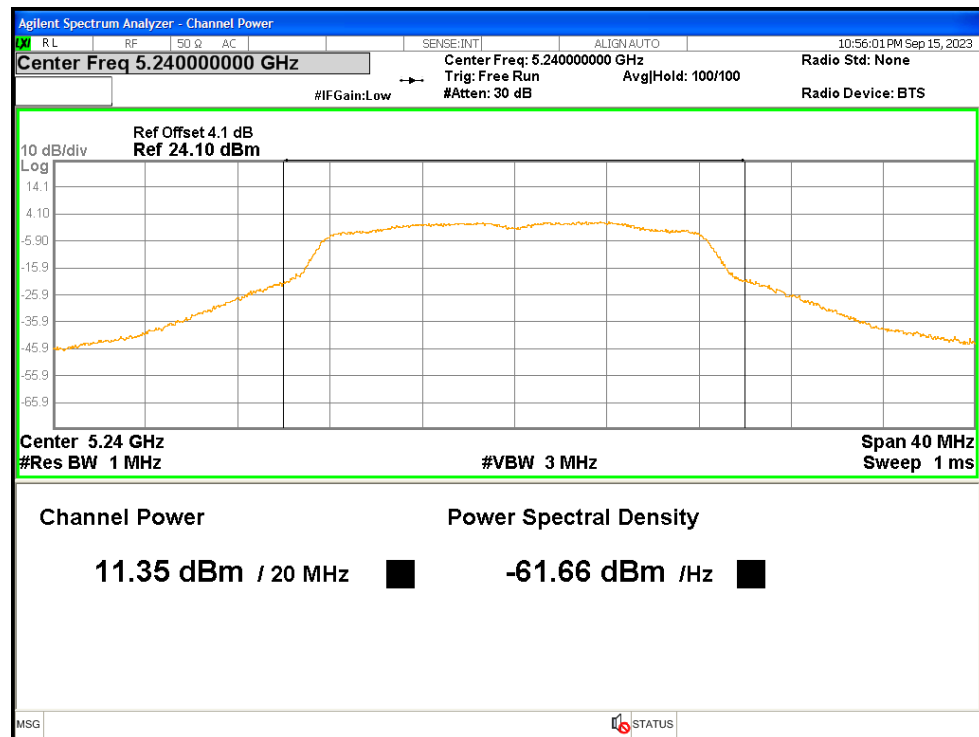
Power NVNT n20 5200MHz Ant1



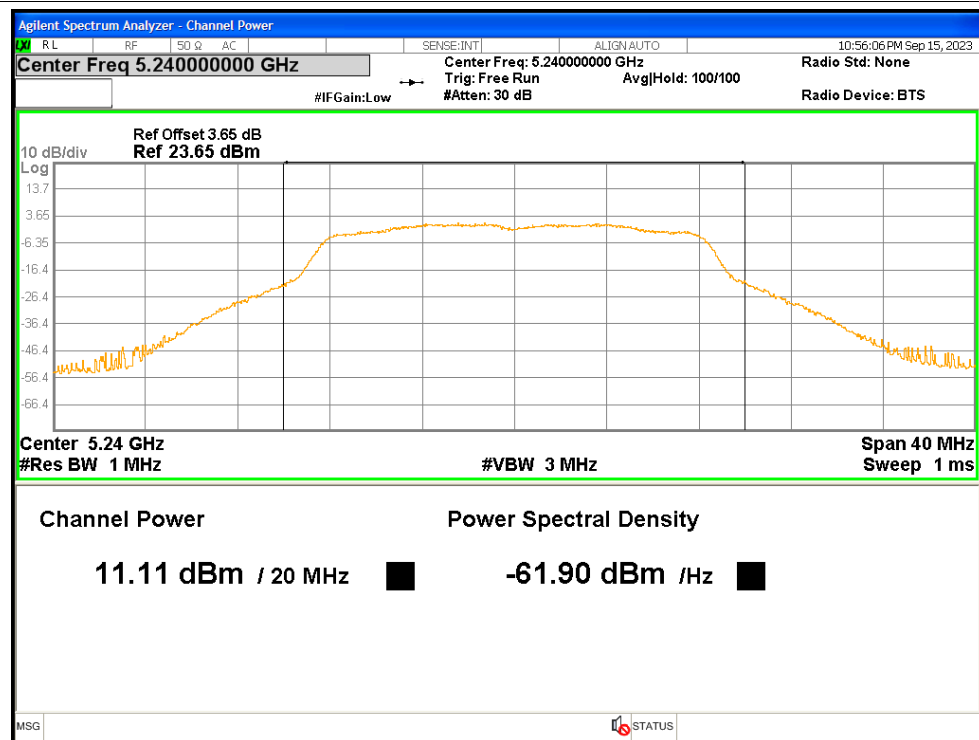
Power NVNT n20 5200MHz Ant2



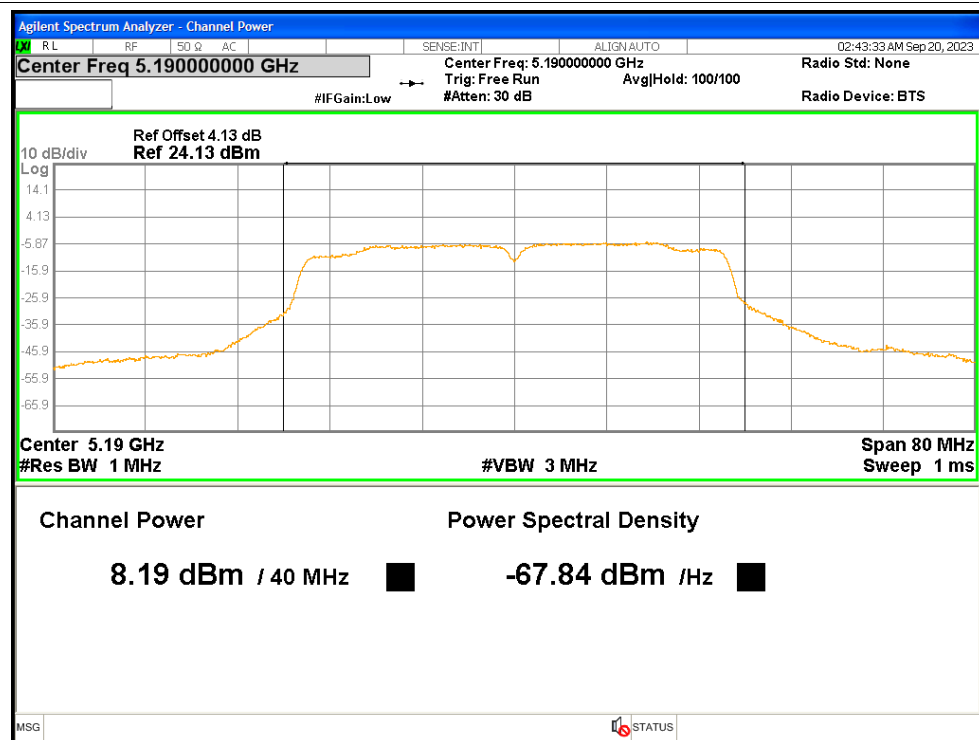
Power NVNT n20 5240MHz Ant1



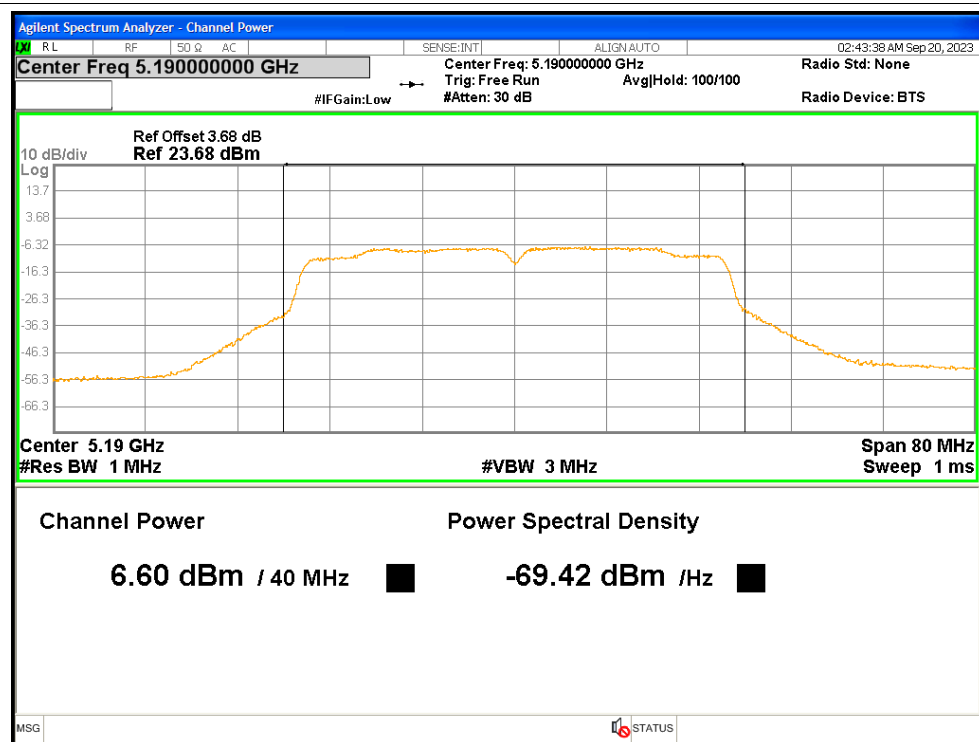
Power NVNT n20 5240MHz Ant2



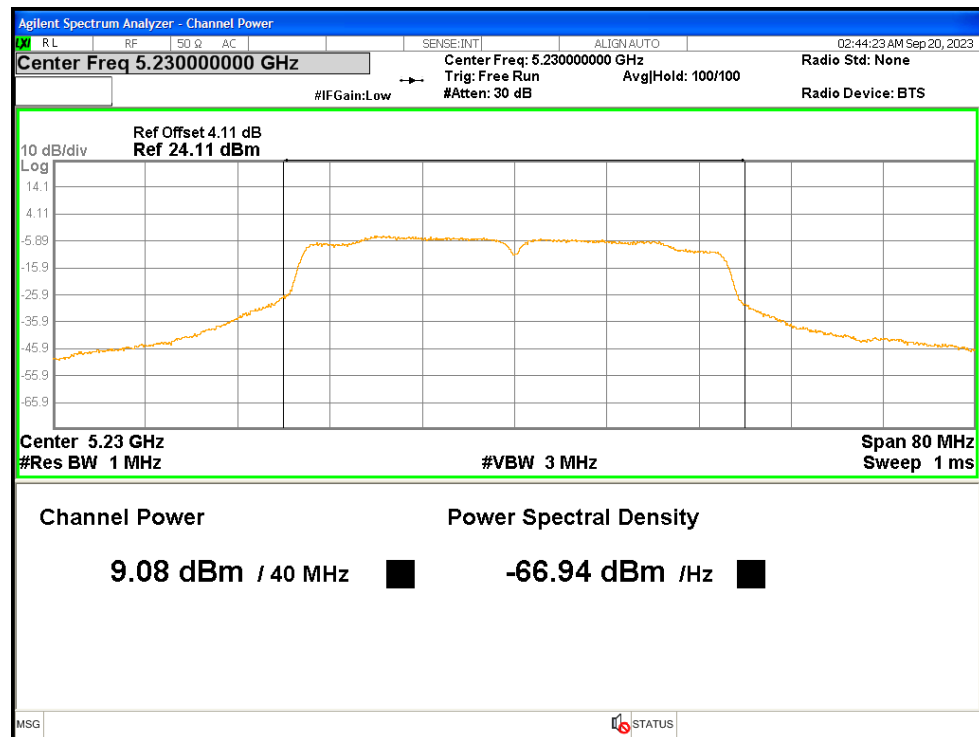
Power NVNT n40 5190MHz Ant1



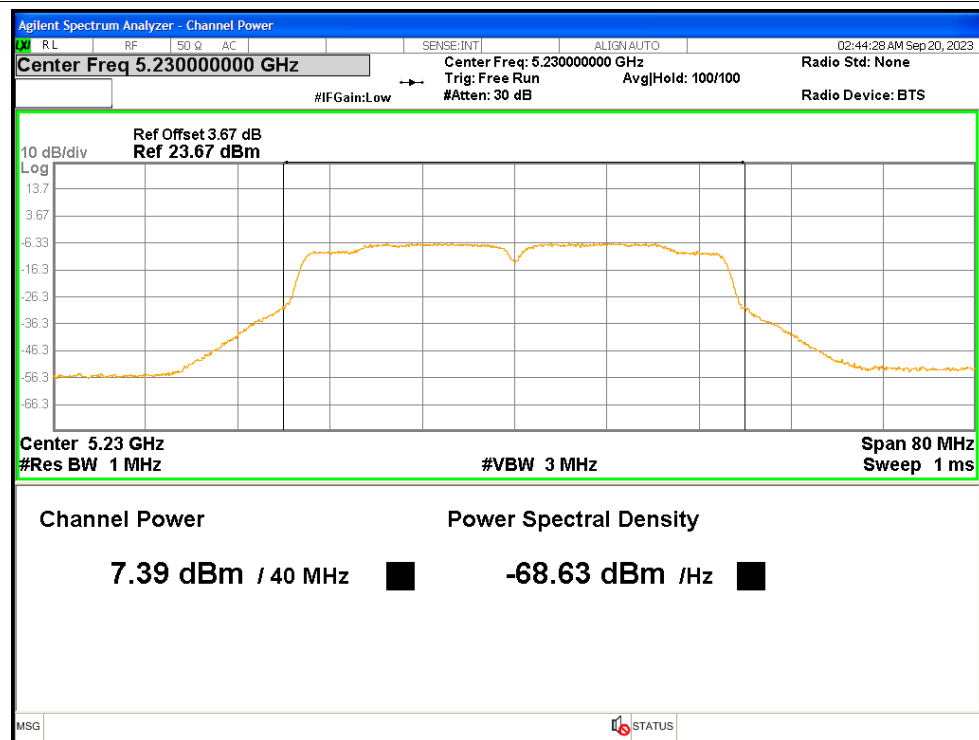
Power NVNT n40 5190MHz Ant2



Power NVNT n40 5230MHz Ant1



Power NVNT n40 5230MHz Ant2

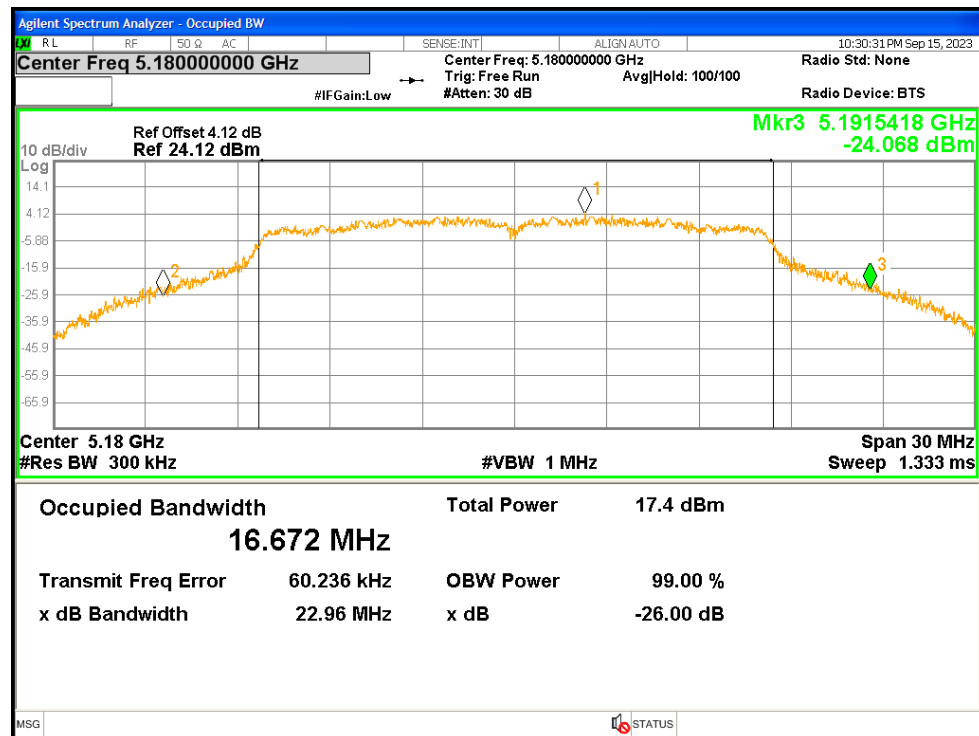


3. -26dB Bandwidth

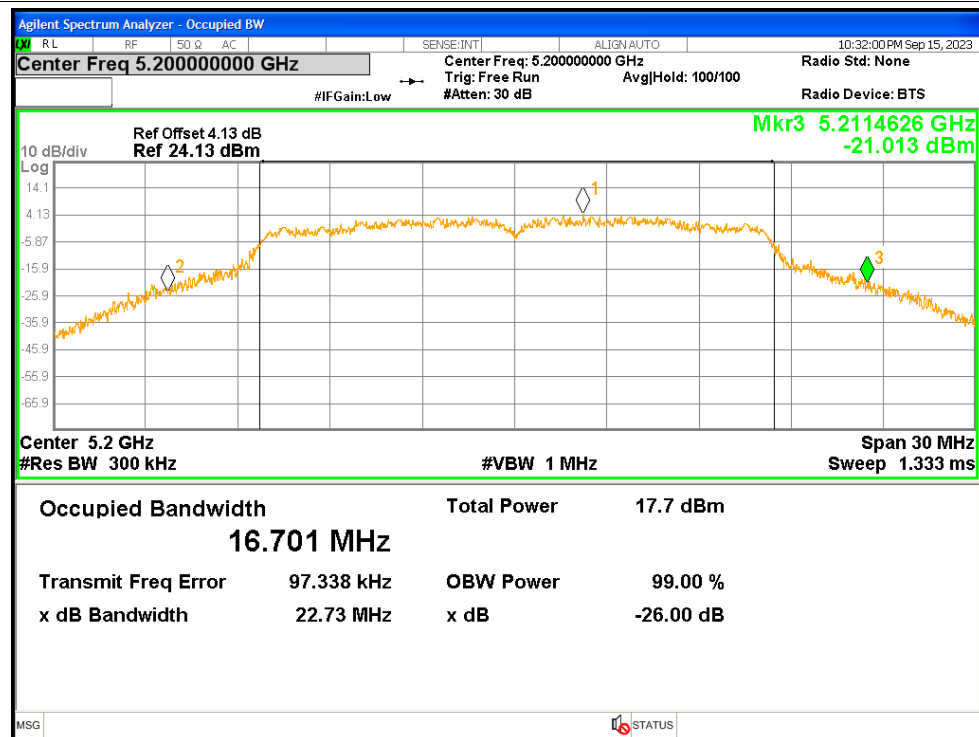
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.9631	Pass
NVNT	a	5200	Ant1	22.7305	Pass
NVNT	a	5240	Ant1	23.5269	Pass
NVNT	a	5180	Ant2	24.3875	Pass
NVNT	a	5200	Ant2	23.8679	Pass
NVNT	a	5240	Ant2	24.0878	Pass
NVNT	ac20	5180	Ant1	23.0049	Pass
NVNT	ac20	5180	Ant2	23.7789	Pass
NVNT	ac20	5200	Ant1	24.1918	Pass
NVNT	ac20	5200	Ant2	23.7835	Pass
NVNT	ac20	5240	Ant1	23.9978	Pass
NVNT	ac20	5240	Ant2	23.0826	Pass
NVNT	ac40	5190	Ant1	45.0587	Pass
NVNT	ac40	5190	Ant2	42.0646	Pass
NVNT	ac40	5230	Ant1	42.3945	Pass
NVNT	ac40	5230	Ant2	42.1581	Pass
NVNT	ac80	5210	Ant1	84.8425	Pass
NVNT	ac80	5210	Ant2	82.9088	Pass
NVNT	n20	5180	Ant1	22.6804	Pass
NVNT	n20	5180	Ant2	23.0439	Pass
NVNT	n20	5200	Ant1	24.0846	Pass
NVNT	n20	5200	Ant2	23.4699	Pass
NVNT	n20	5240	Ant1	24.2988	Pass
NVNT	n20	5240	Ant2	23.4471	Pass
NVNT	n40	5190	Ant1	43.0756	Pass
NVNT	n40	5190	Ant2	42.3112	Pass
NVNT	n40	5230	Ant1	42.3376	Pass
NVNT	n40	5230	Ant2	41.981	Pass

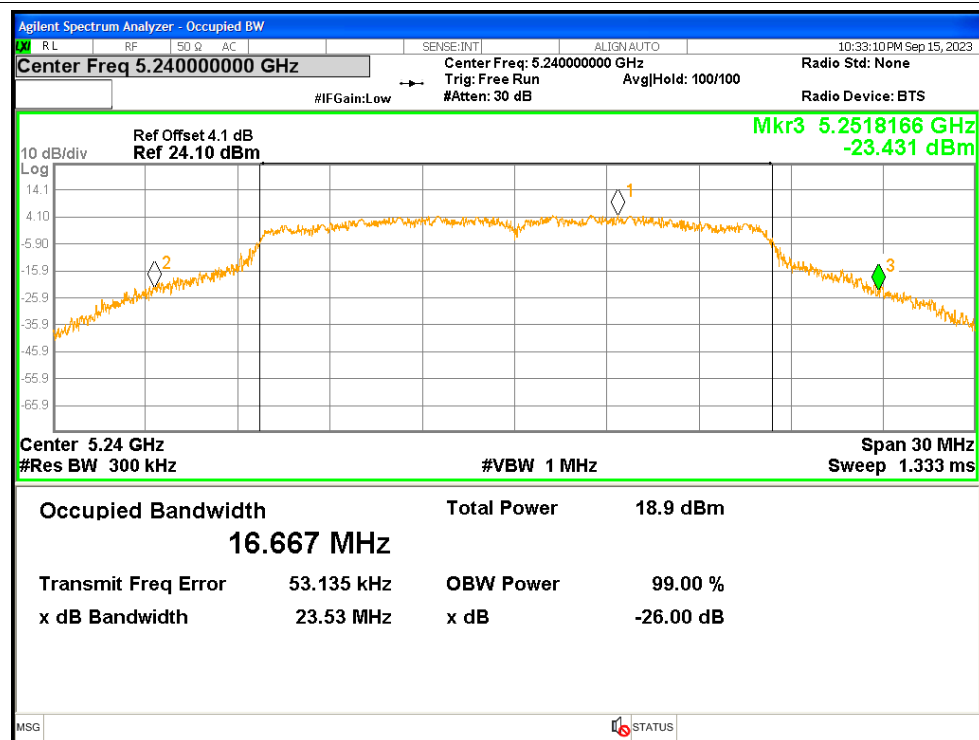
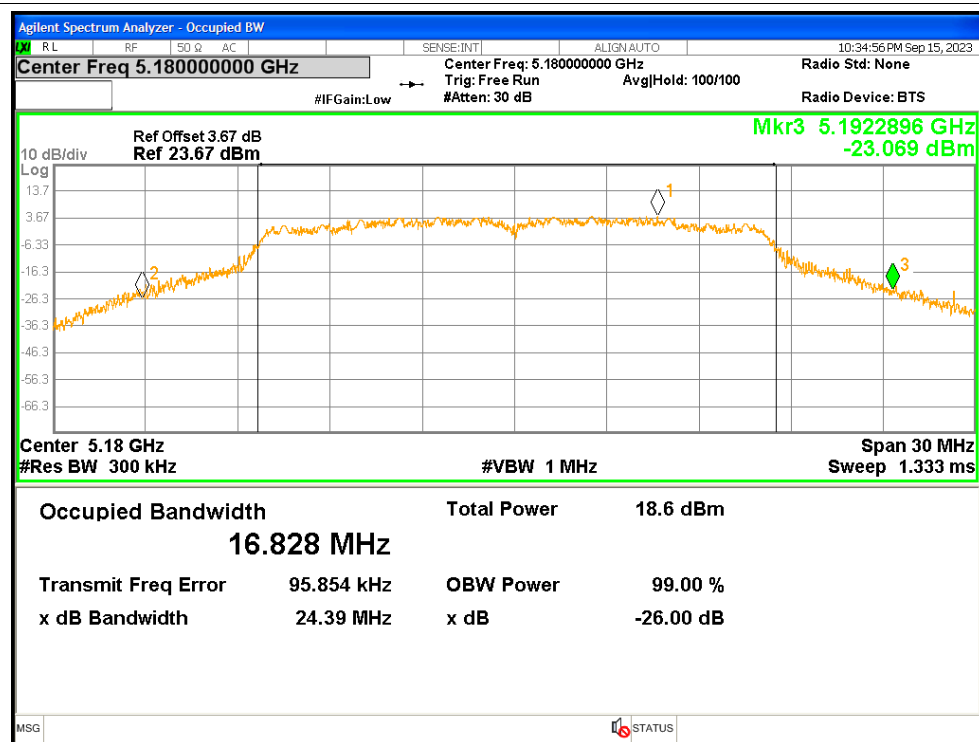
Test Graphs

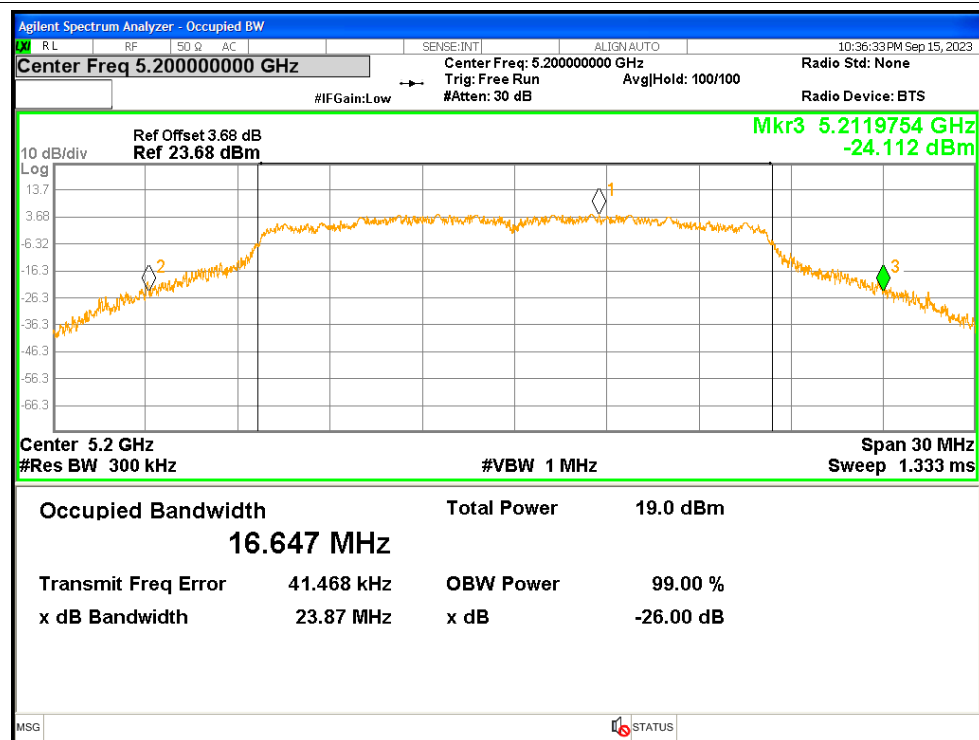
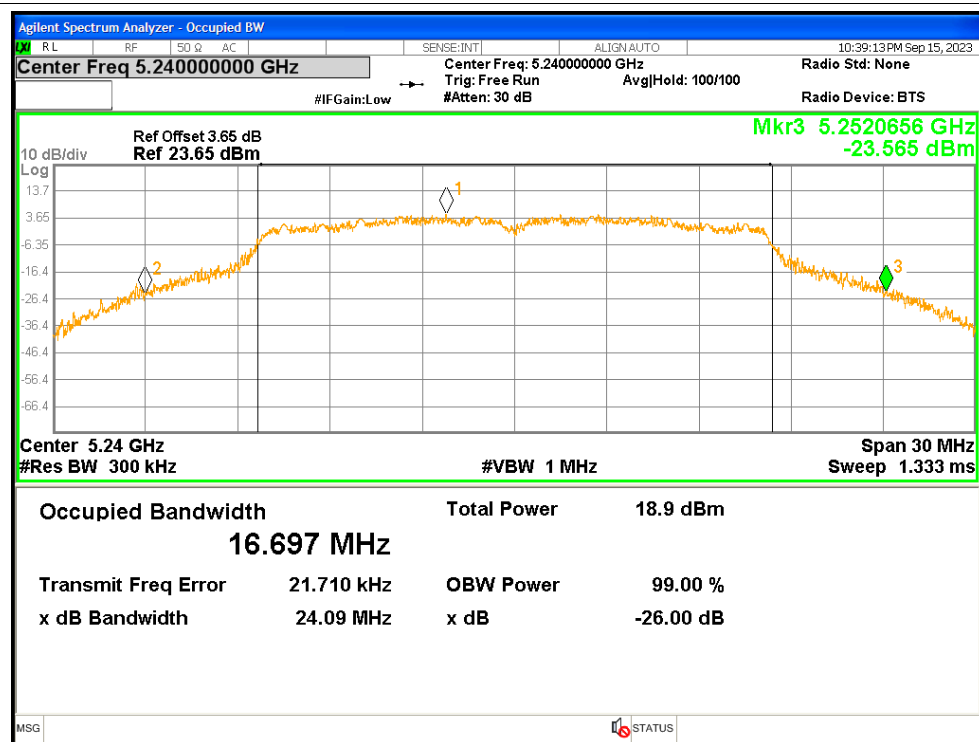
-26dB Bandwidth NVNT a 5180MHz Ant1

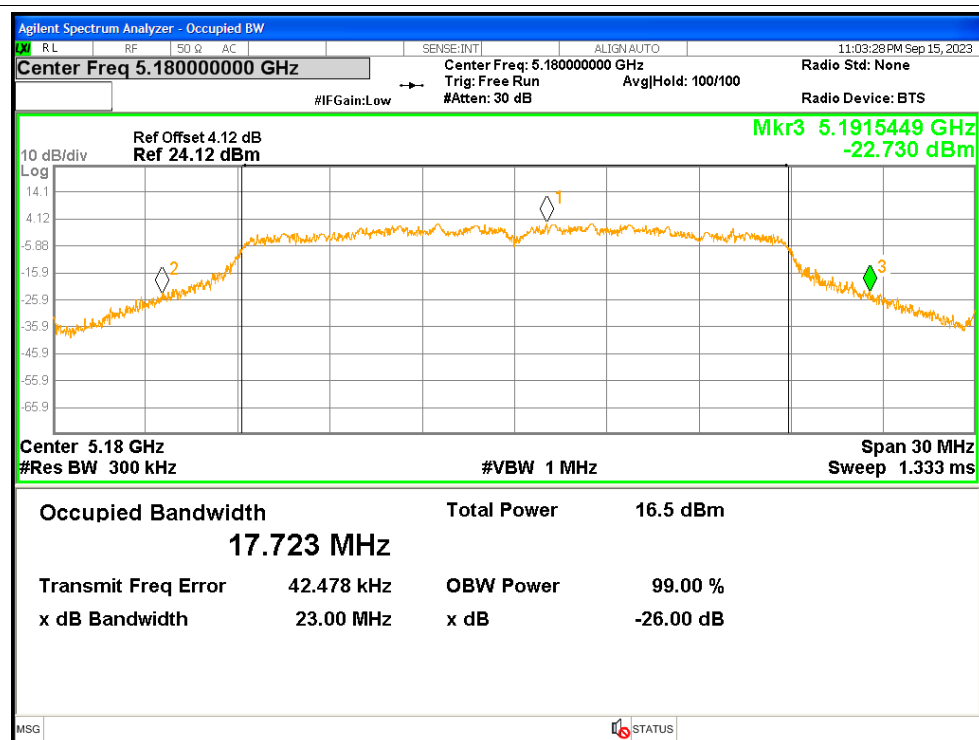
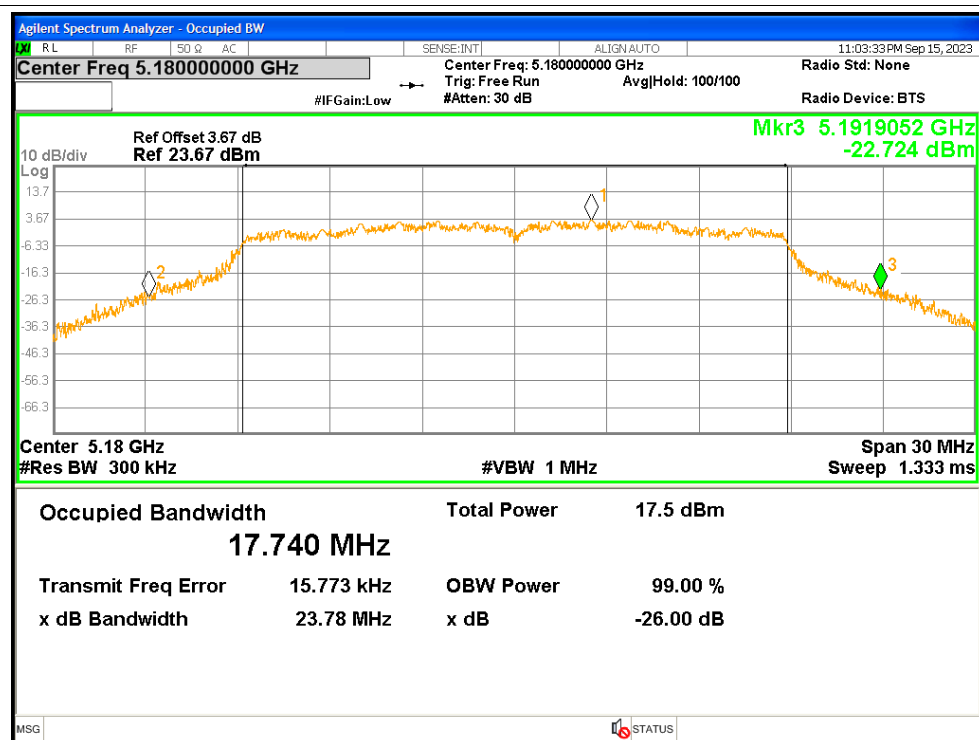


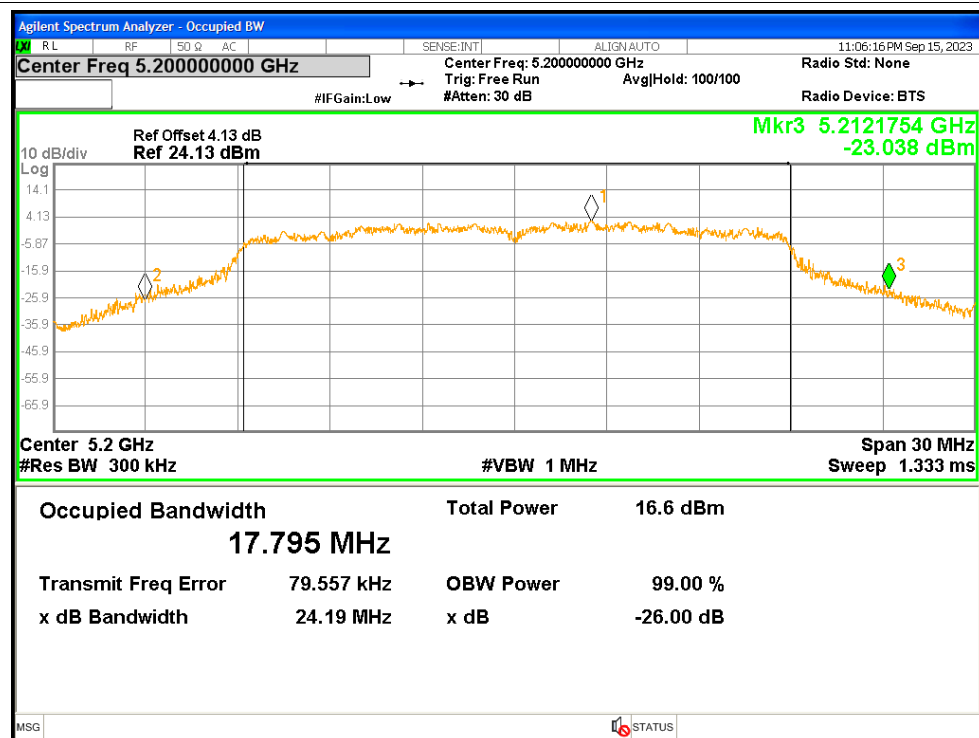
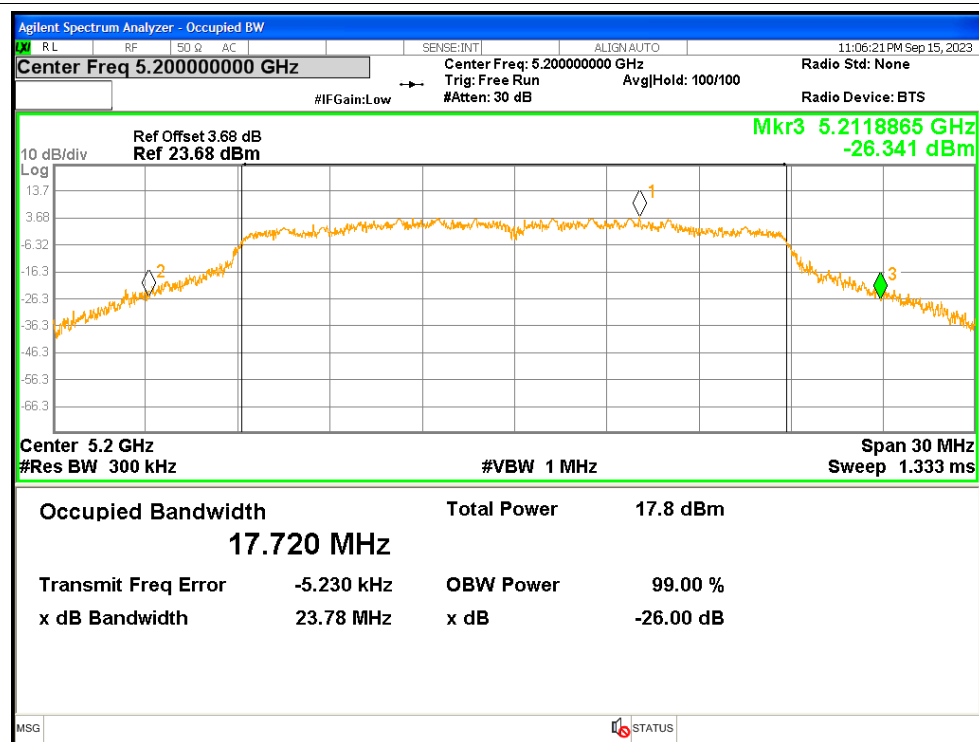
-26dB Bandwidth NVNT a 5200MHz Ant1

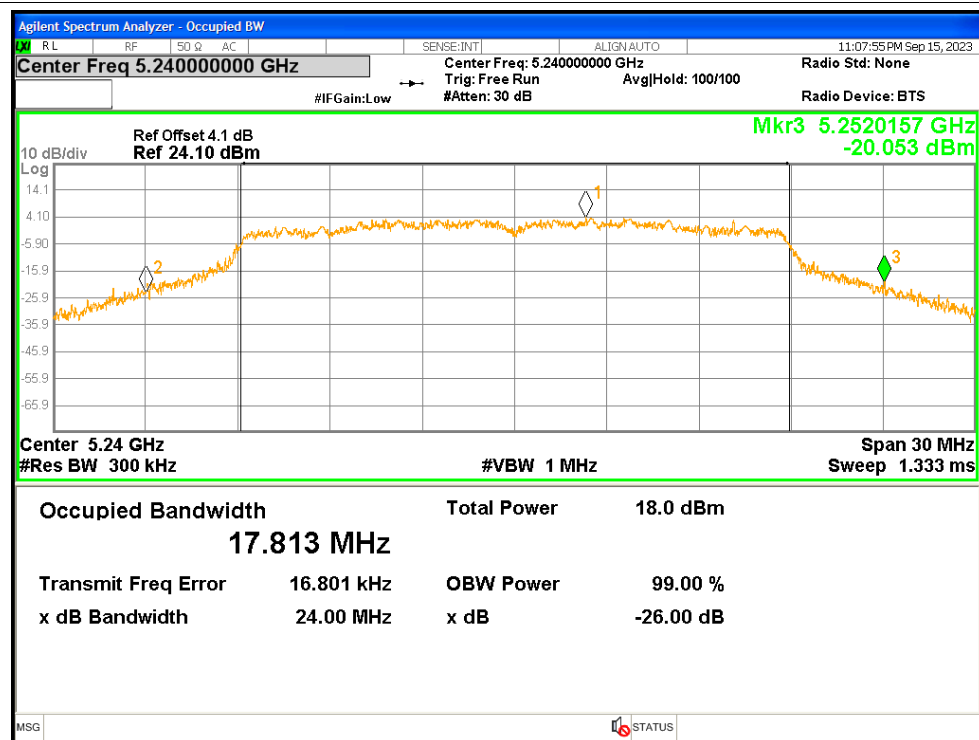
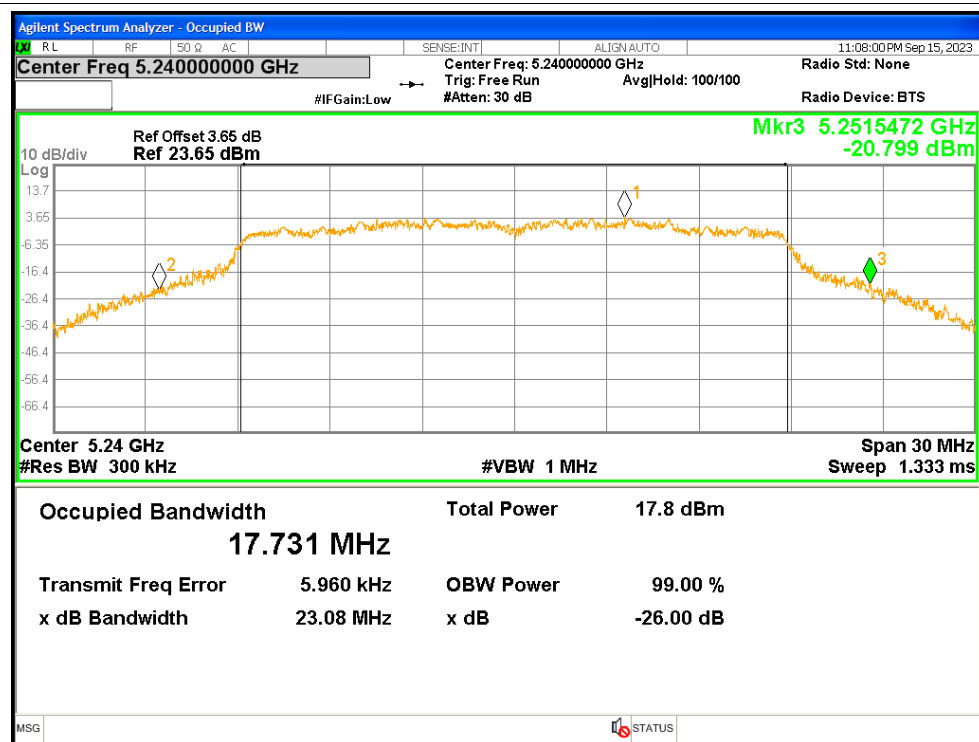


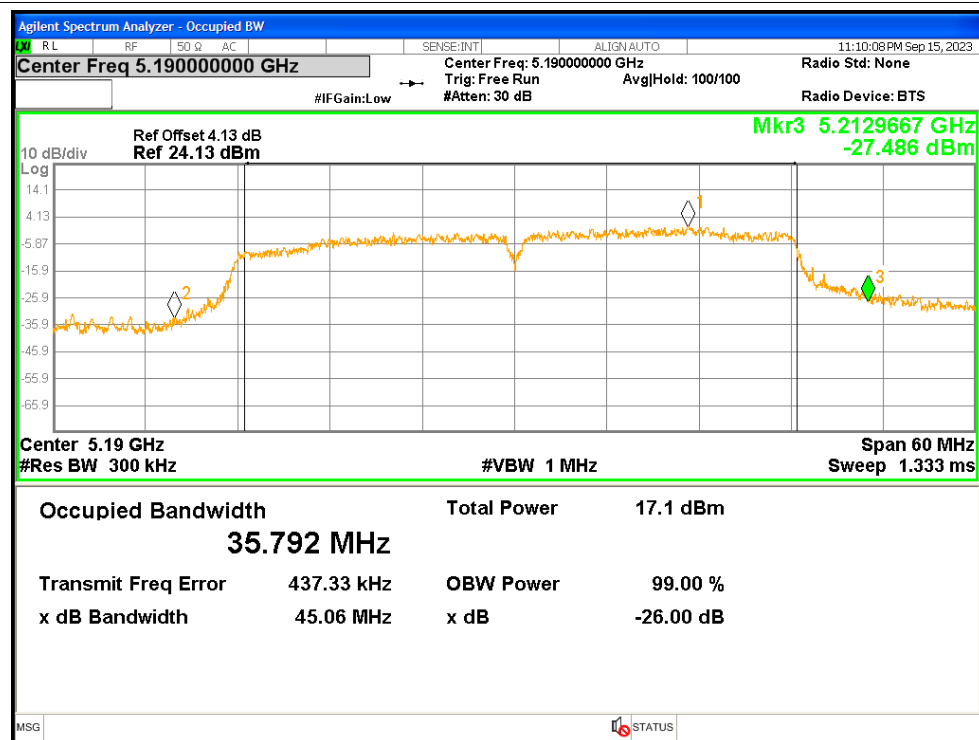
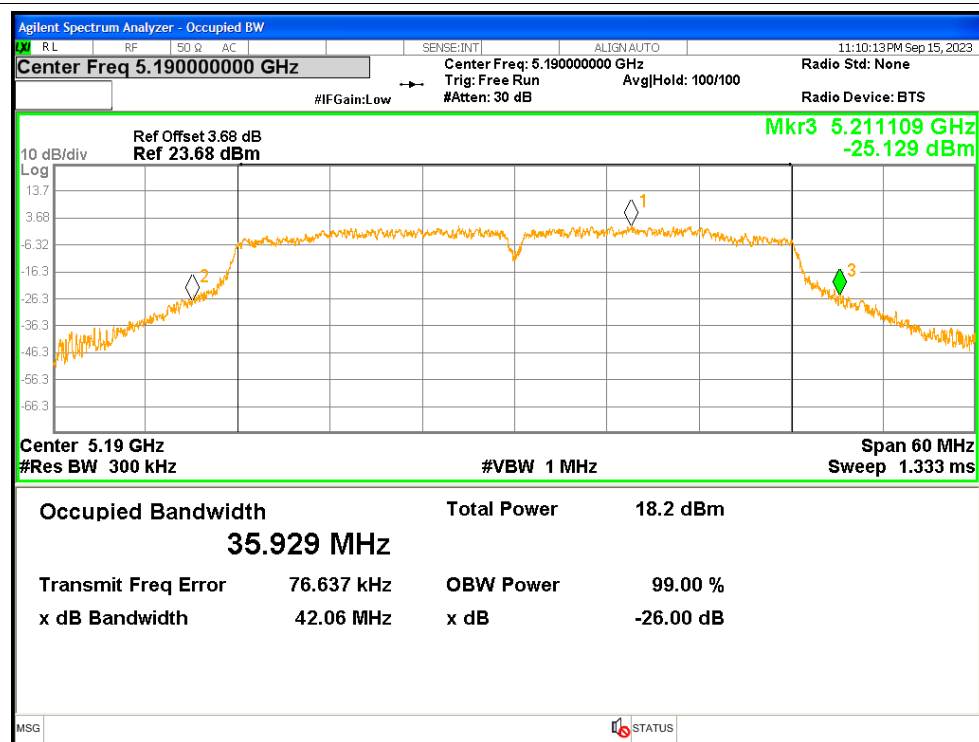
-26dB Bandwidth NVNT a 5240MHz Ant1**-26dB Bandwidth NVNT a 5180MHz Ant2**

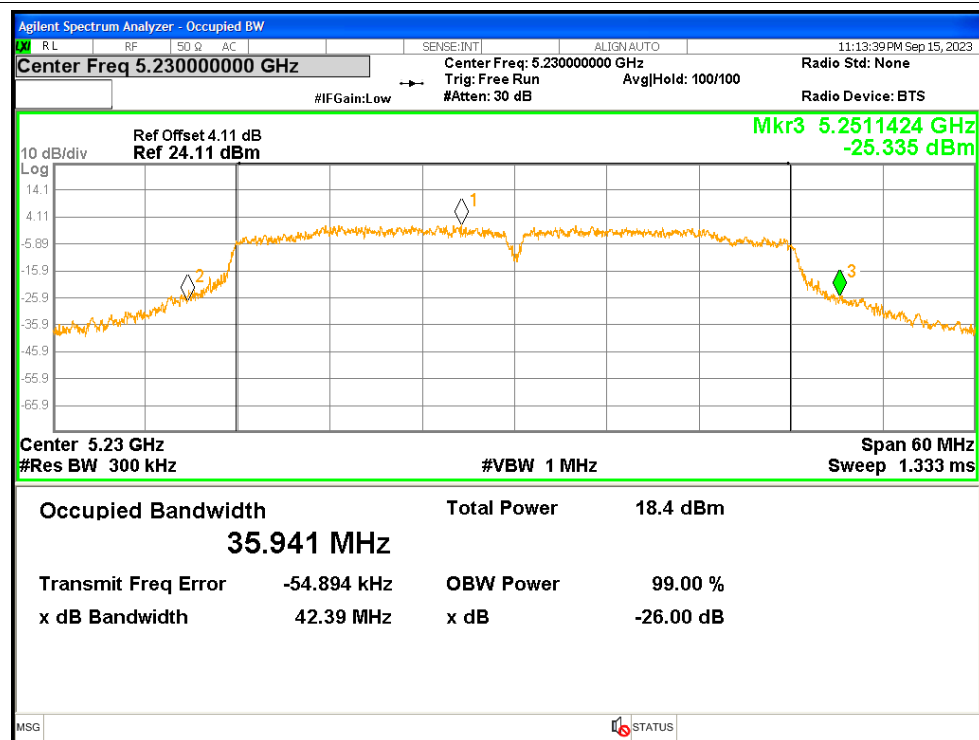
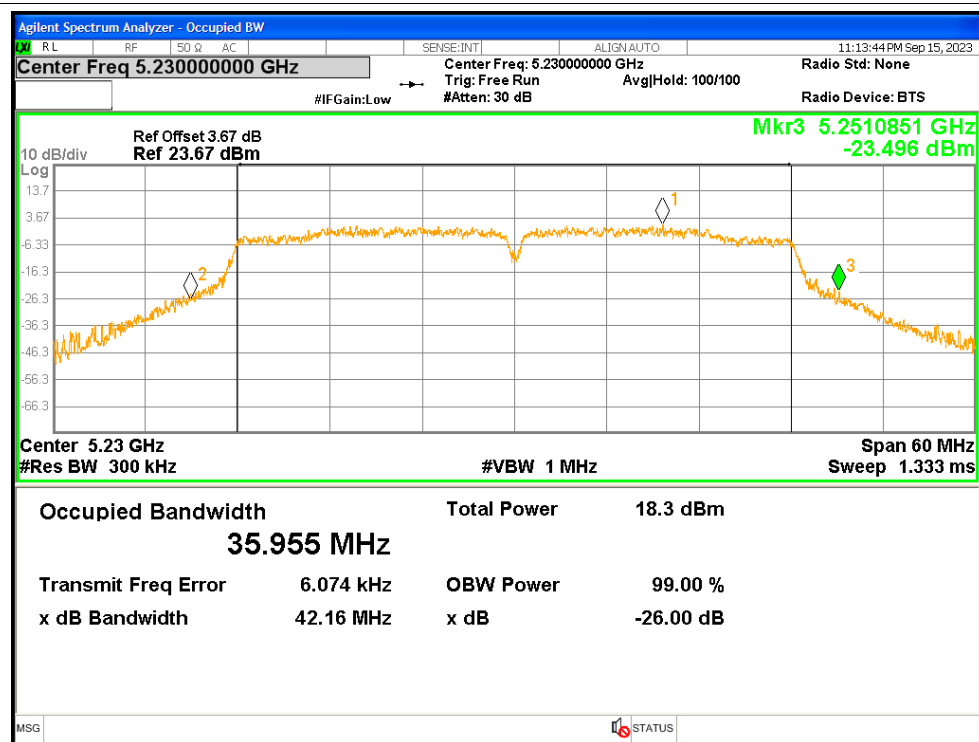
-26dB Bandwidth NVNT a 5200MHz Ant2**-26dB Bandwidth NVNT a 5240MHz Ant2**

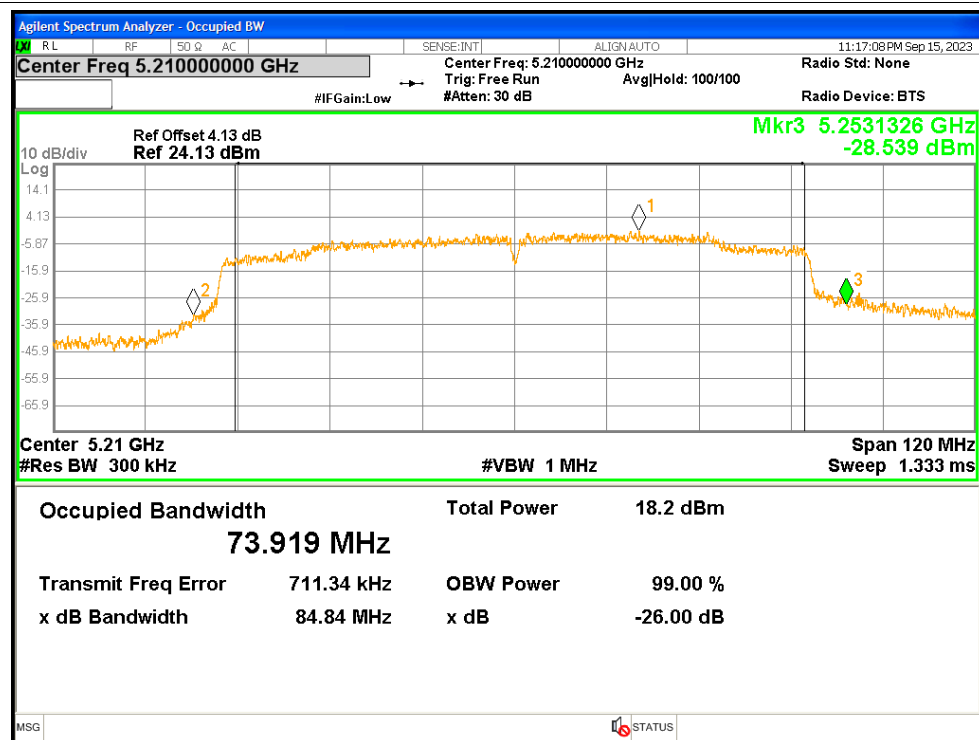
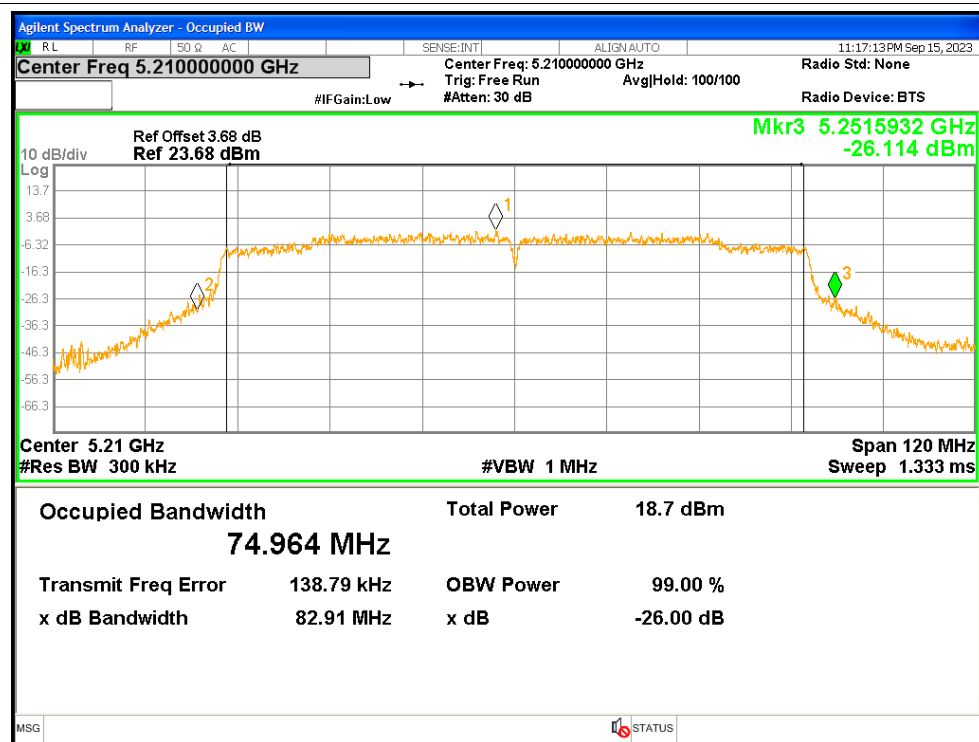
-26dB Bandwidth NVNT ac20 5180MHz Ant1**-26dB Bandwidth NVNT ac20 5180MHz Ant2**

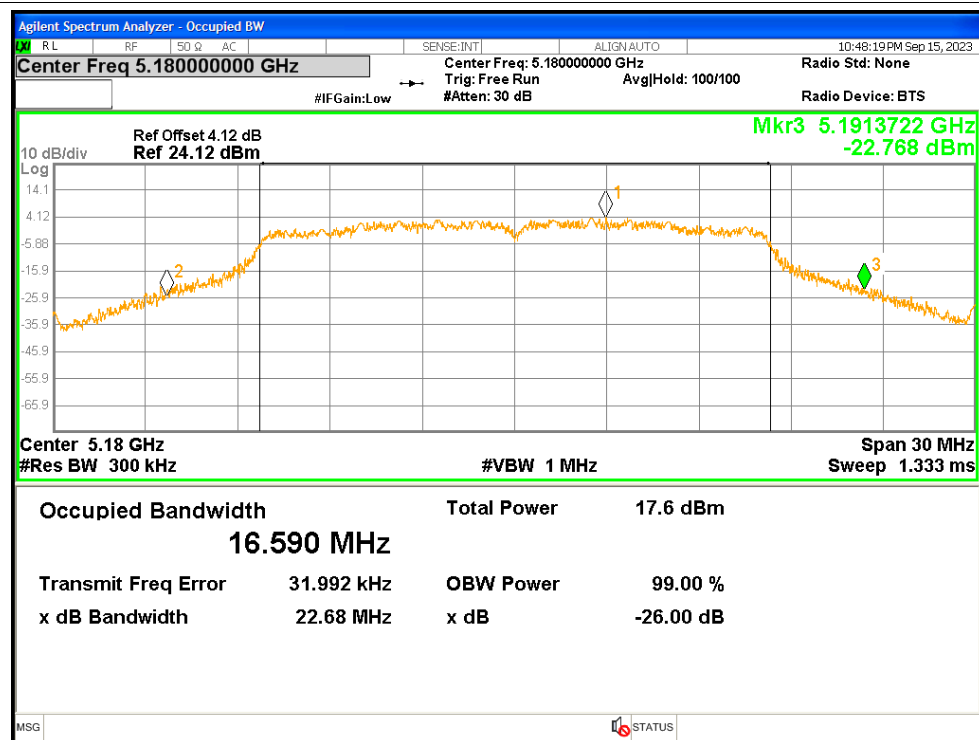
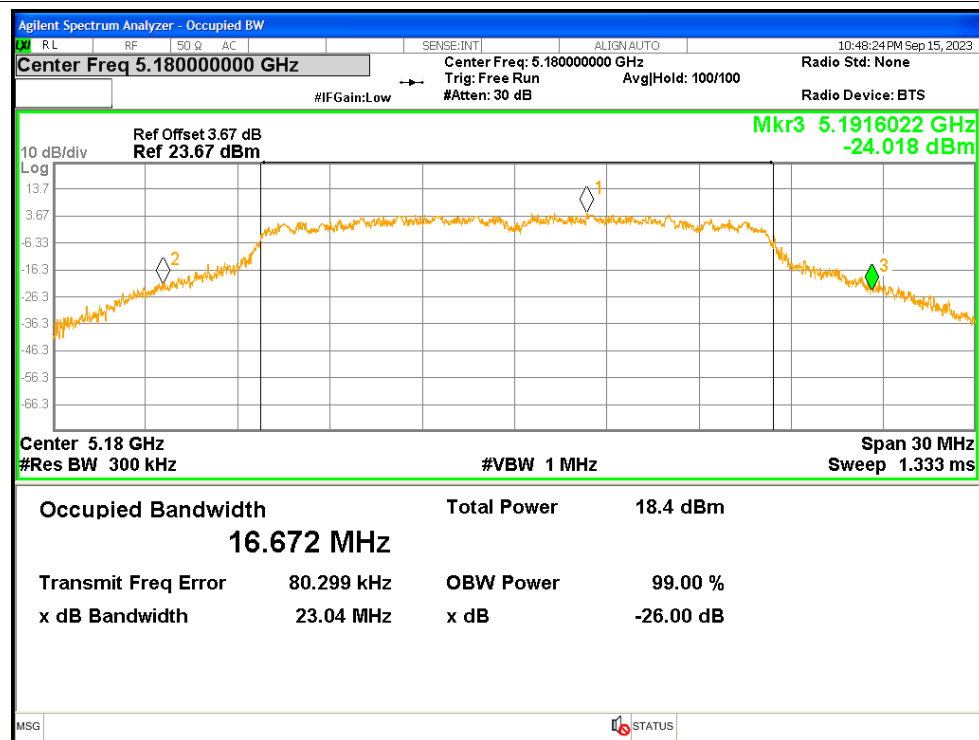
-26dB Bandwidth NVNT ac20 5200MHz Ant1**-26dB Bandwidth NVNT ac20 5200MHz Ant2**

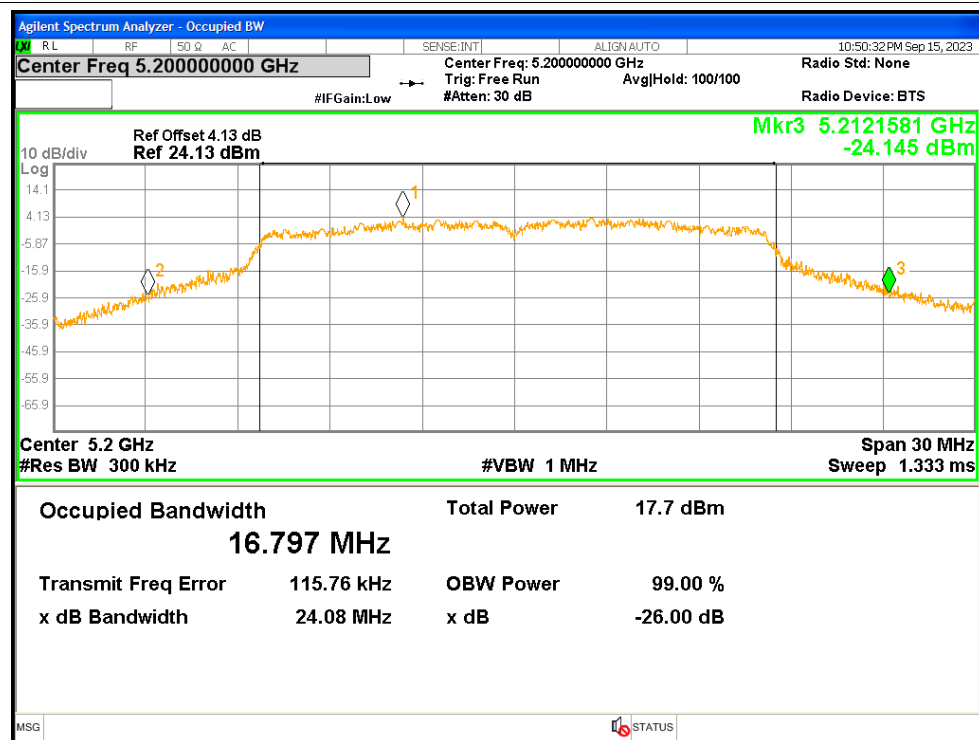
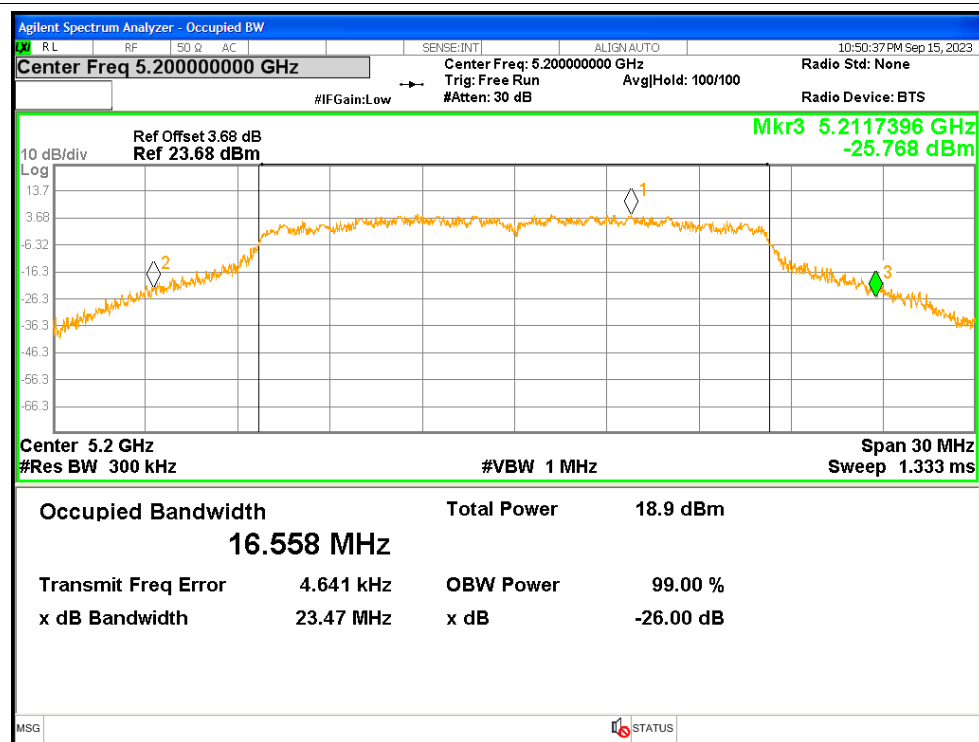
-26dB Bandwidth NVNT ac20 5240MHz Ant1**-26dB Bandwidth NVNT ac20 5240MHz Ant2**

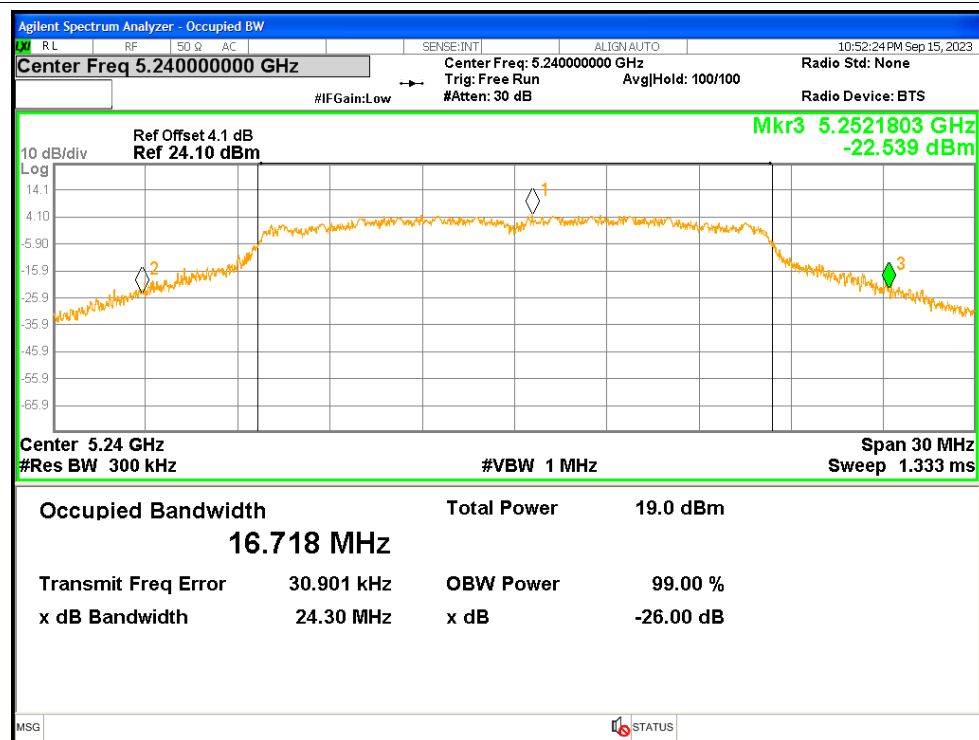
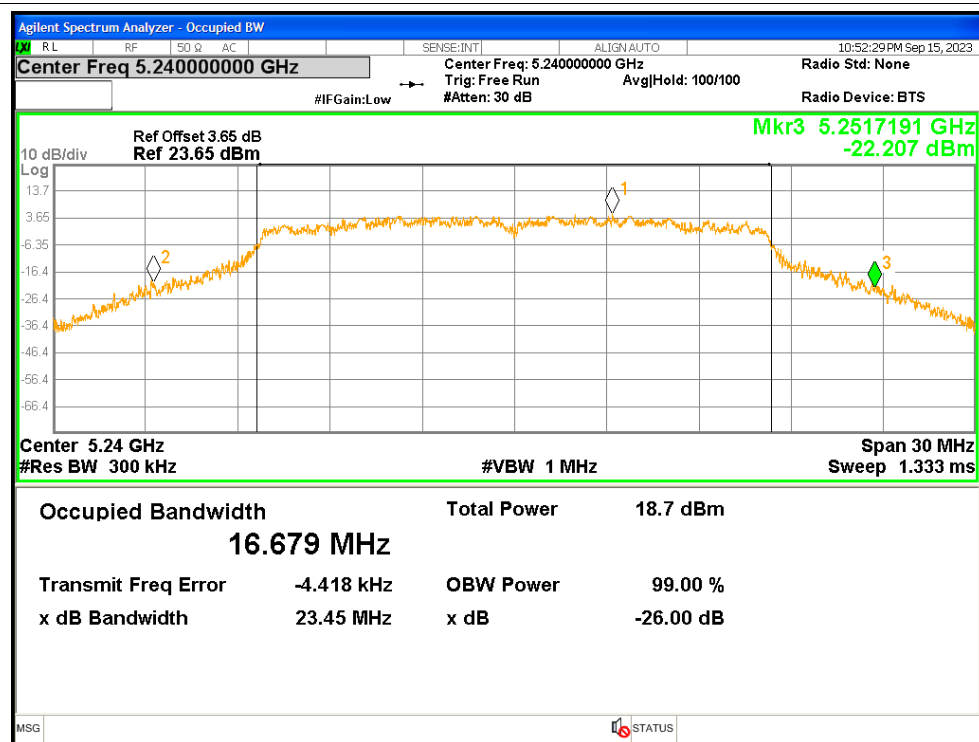
-26dB Bandwidth NVNT ac40 5190MHz Ant1**-26dB Bandwidth NVNT ac40 5190MHz Ant2**

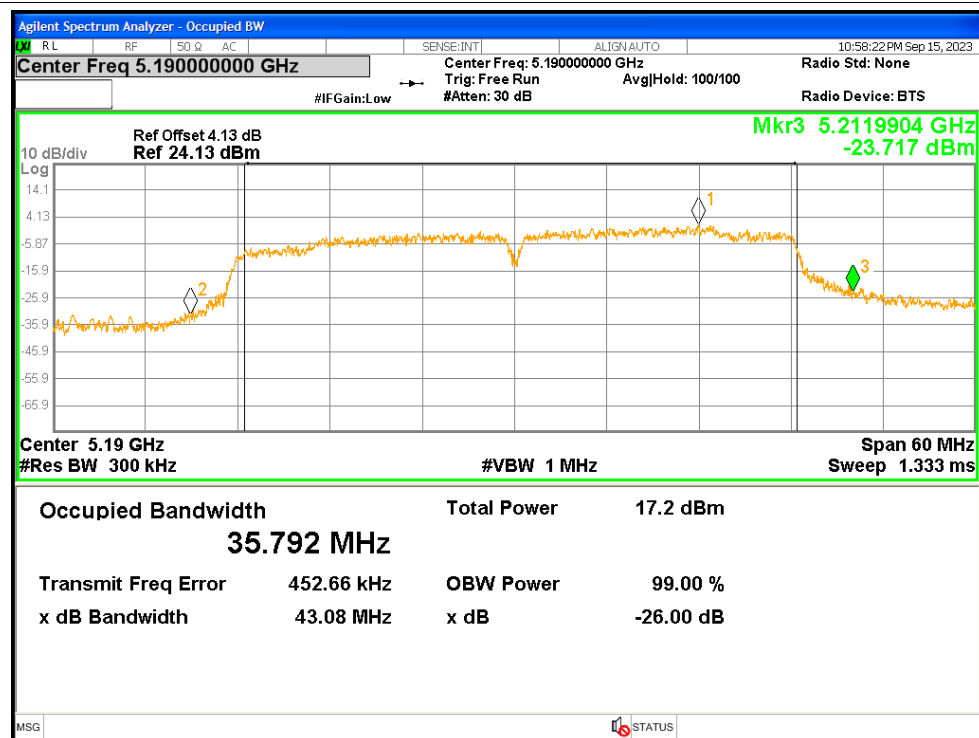
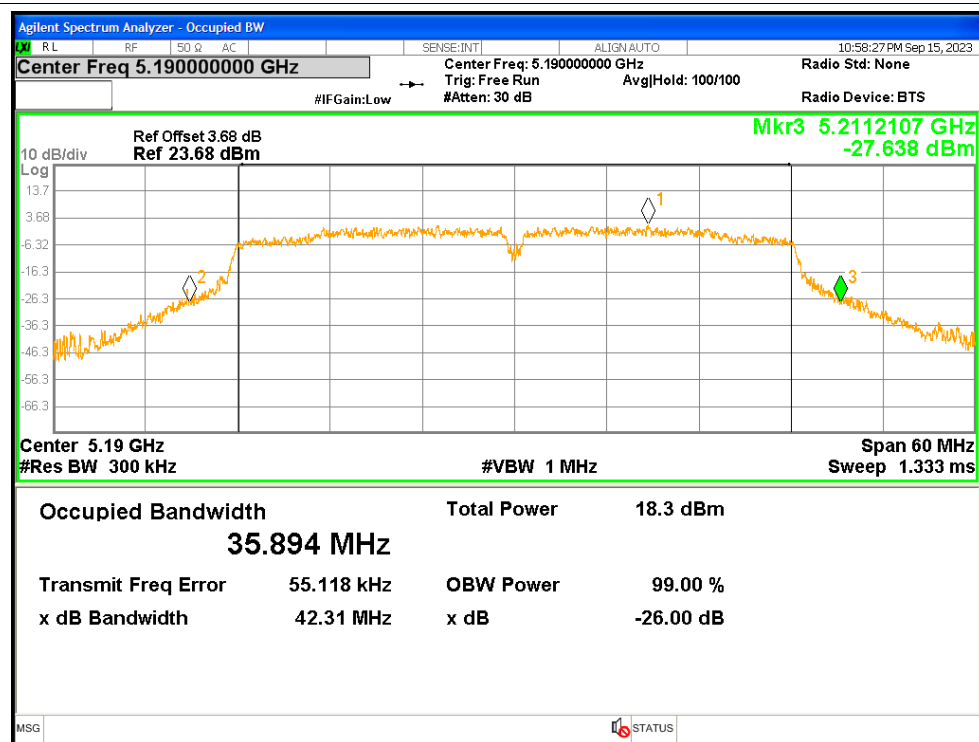
-26dB Bandwidth NVNT ac40 5230MHz Ant1**-26dB Bandwidth NVNT ac40 5230MHz Ant2**

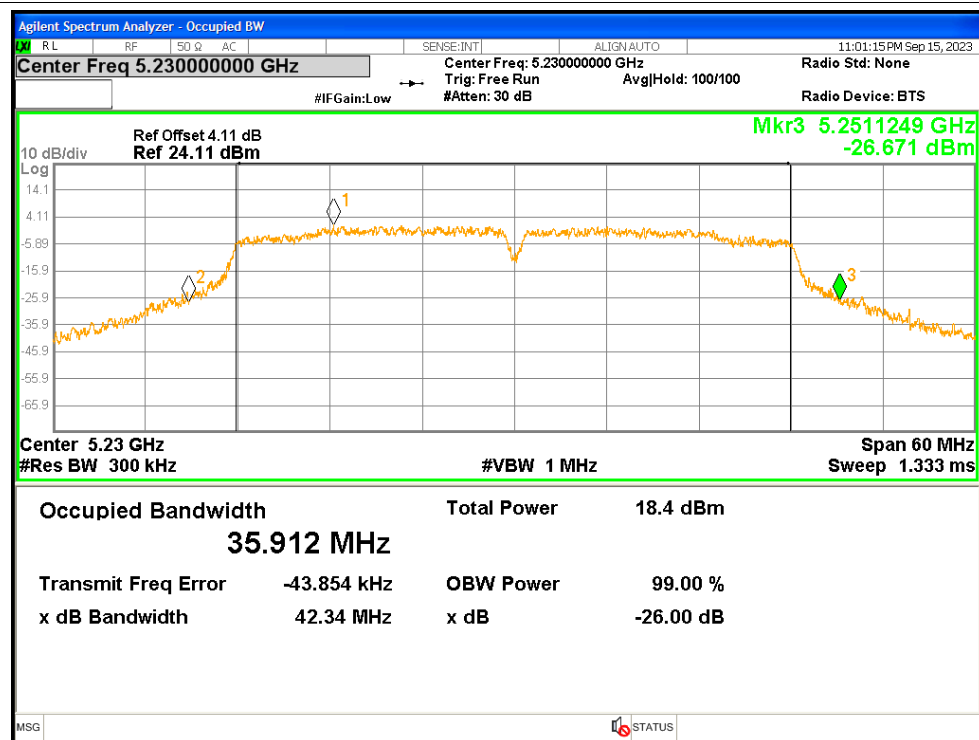
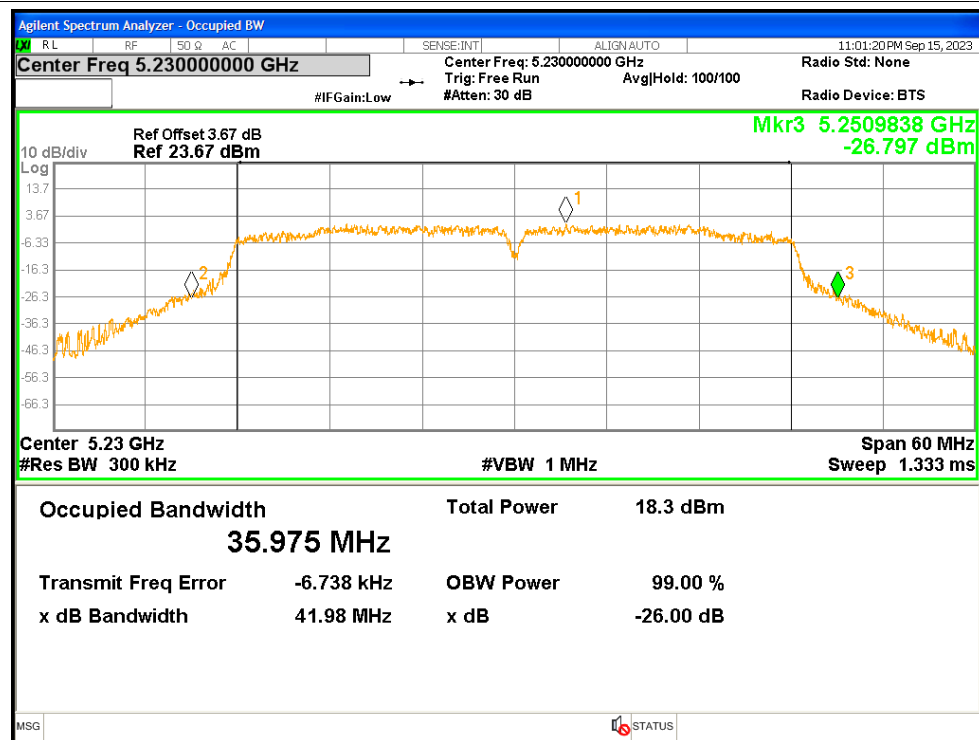
-26dB Bandwidth NVNT ac80 5210MHz Ant1**-26dB Bandwidth NVNT ac80 5210MHz Ant2**

-26dB Bandwidth NVNT n20 5180MHz Ant1**-26dB Bandwidth NVNT n20 5180MHz Ant2**

-26dB Bandwidth NVNT n20 5200MHz Ant1**-26dB Bandwidth NVNT n20 5200MHz Ant2**

-26dB Bandwidth NVNT n20 5240MHz Ant1**-26dB Bandwidth NVNT n20 5240MHz Ant2**

-26dB Bandwidth NVNT n40 5190MHz Ant1**-26dB Bandwidth NVNT n40 5190MHz Ant2**

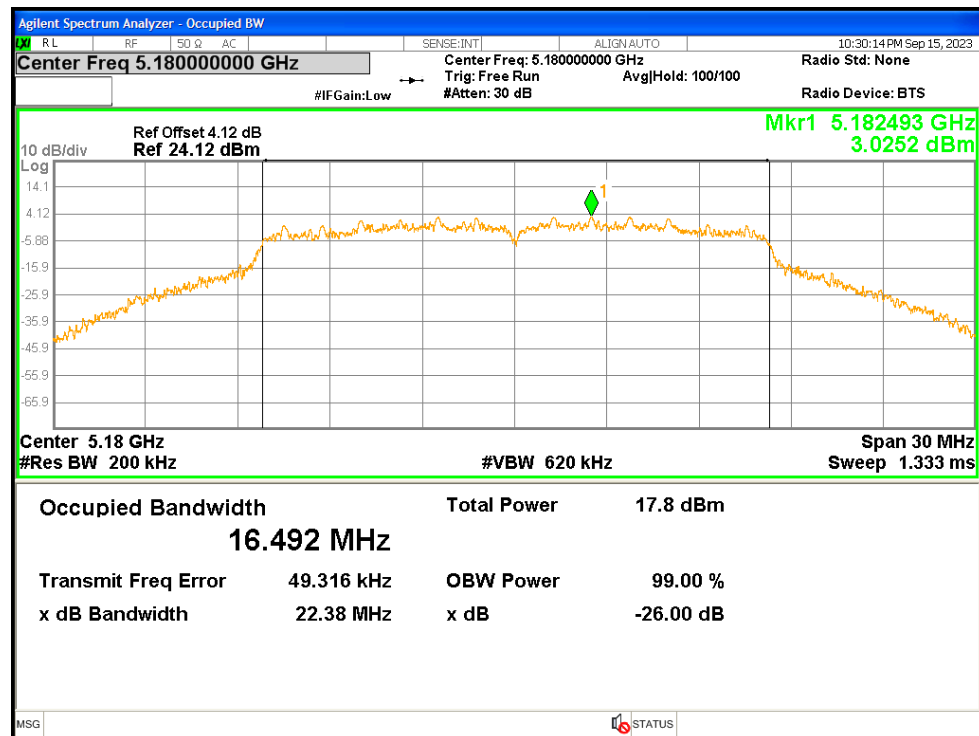
-26dB Bandwidth NVNT n40 5230MHz Ant1**-26dB Bandwidth NVNT n40 5230MHz Ant2**

4. Occupied Channel Bandwidth

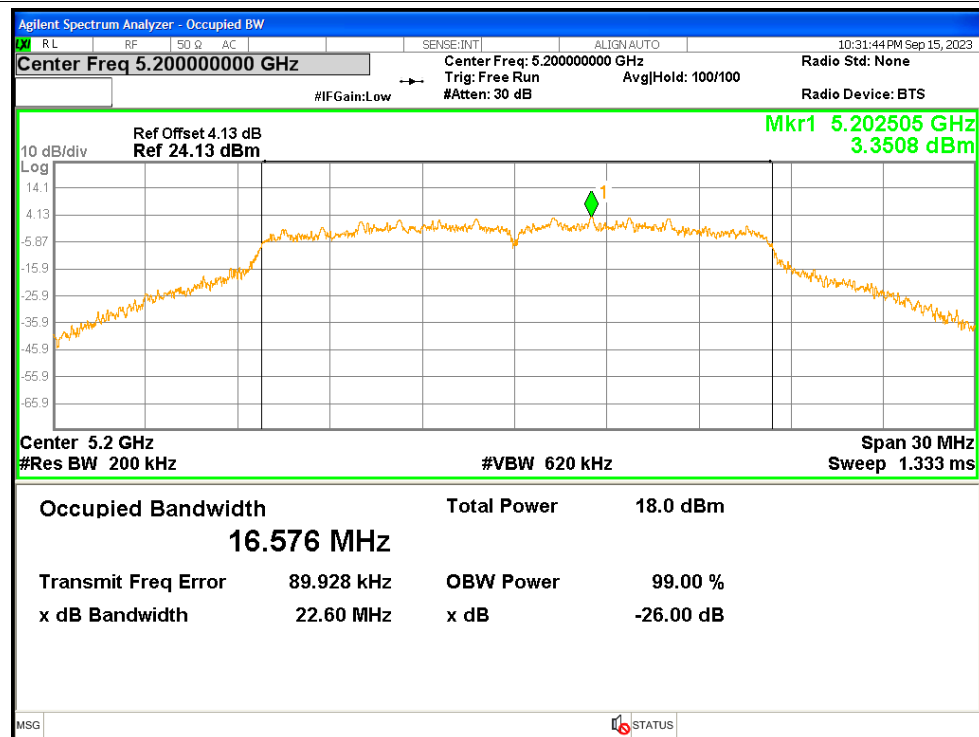
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.4922
NVNT	a	5200	Ant1	16.5765
NVNT	a	5240	Ant1	16.4917
NVNT	a	5180	Ant2	16.5678
NVNT	a	5200	Ant2	16.4847
NVNT	a	5240	Ant2	16.5111
NVNT	ac20	5180	Ant1	17.605
NVNT	ac20	5180	Ant2	17.6465
NVNT	ac20	5200	Ant1	17.7131
NVNT	ac20	5200	Ant2	17.6155
NVNT	ac20	5240	Ant1	17.6793
NVNT	ac20	5240	Ant2	17.6825
NVNT	ac40	5190	Ant1	35.9164
NVNT	ac40	5190	Ant2	35.9633
NVNT	ac40	5230	Ant1	36.0322
NVNT	ac40	5230	Ant2	36.0295
NVNT	ac80	5210	Ant1	74.099
NVNT	ac80	5210	Ant2	74.9414
NVNT	n20	5180	Ant1	16.4575
NVNT	n20	5180	Ant2	16.5694
NVNT	n20	5200	Ant1	16.5706
NVNT	n20	5200	Ant2	16.4855
NVNT	n20	5240	Ant1	16.6374
NVNT	n20	5240	Ant2	16.5043
NVNT	n40	5190	Ant1	35.9964
NVNT	n40	5190	Ant2	35.9613
NVNT	n40	5230	Ant1	35.9877
NVNT	n40	5230	Ant2	35.9991

Test Graphs

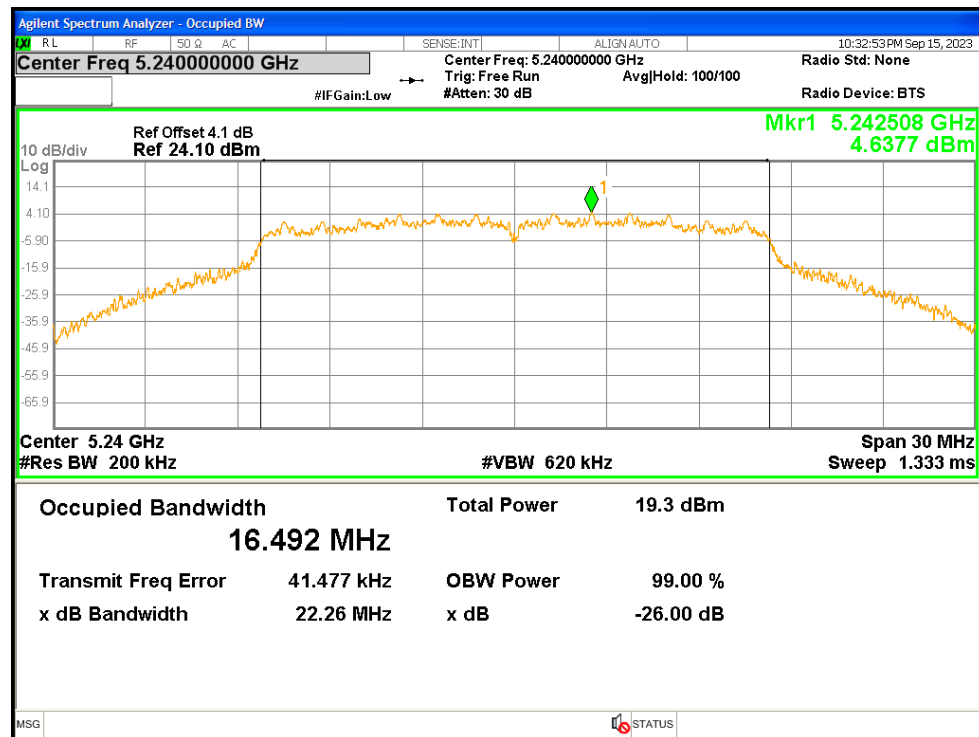
OBW NVNT a 5180MHz Ant1



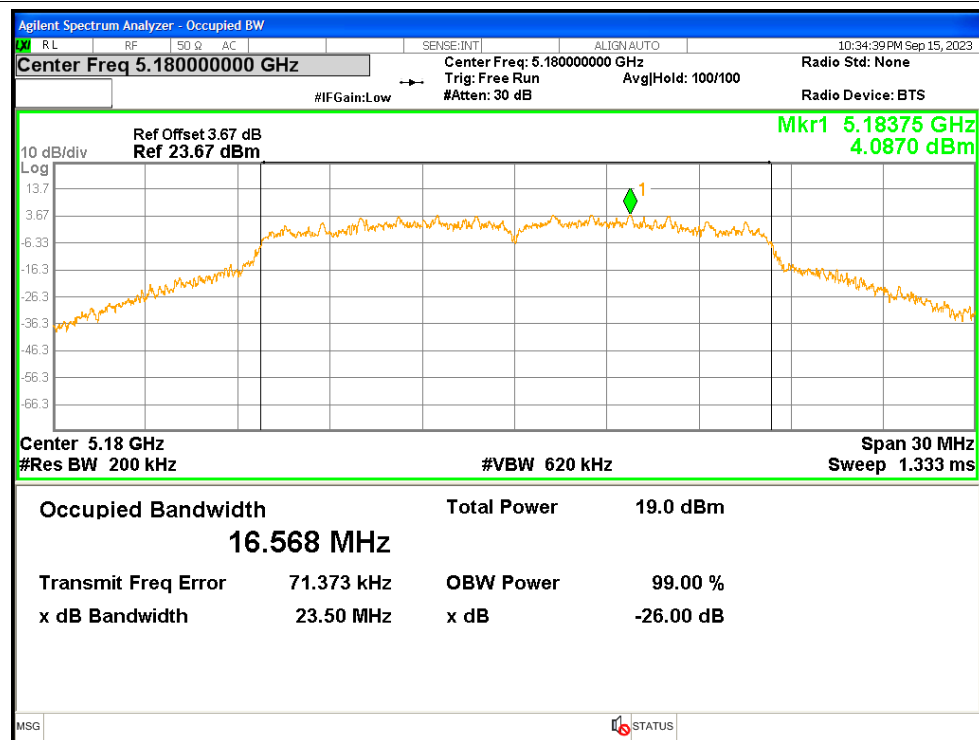
OBW NVNT a 5200MHz Ant1



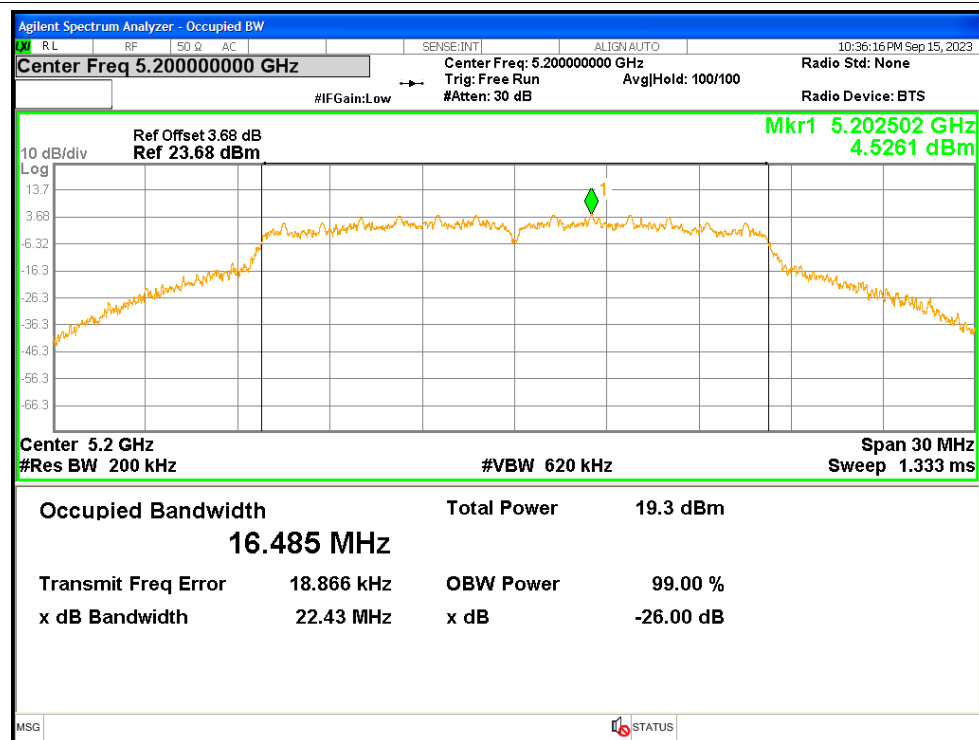
OBW NVNT a 5240MHz Ant1



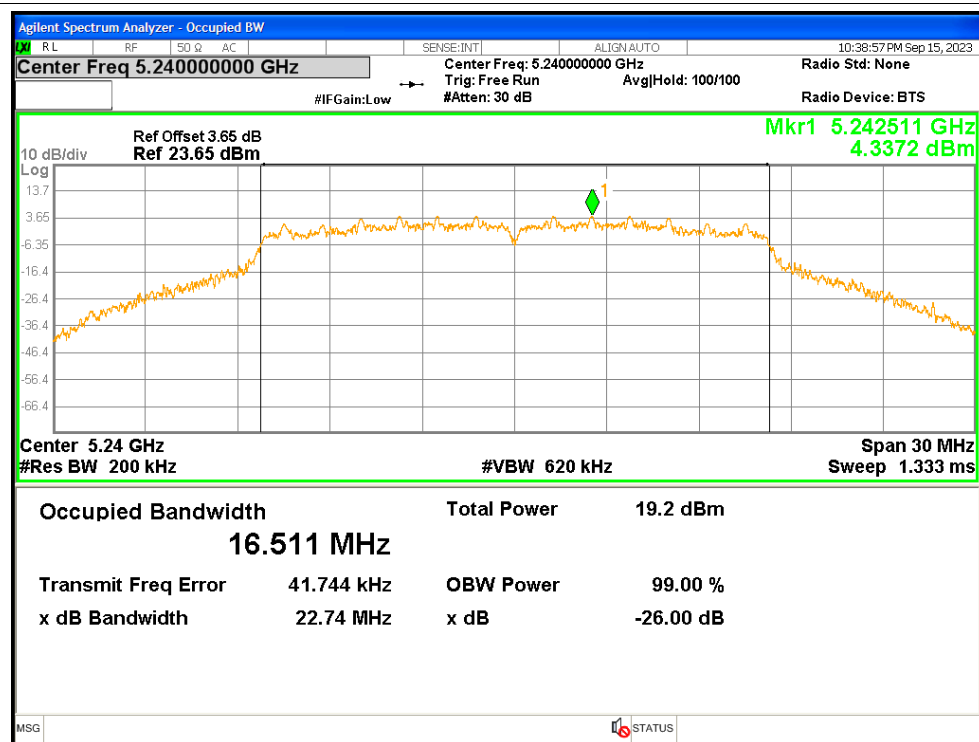
OBW NVNT a 5180MHz Ant2



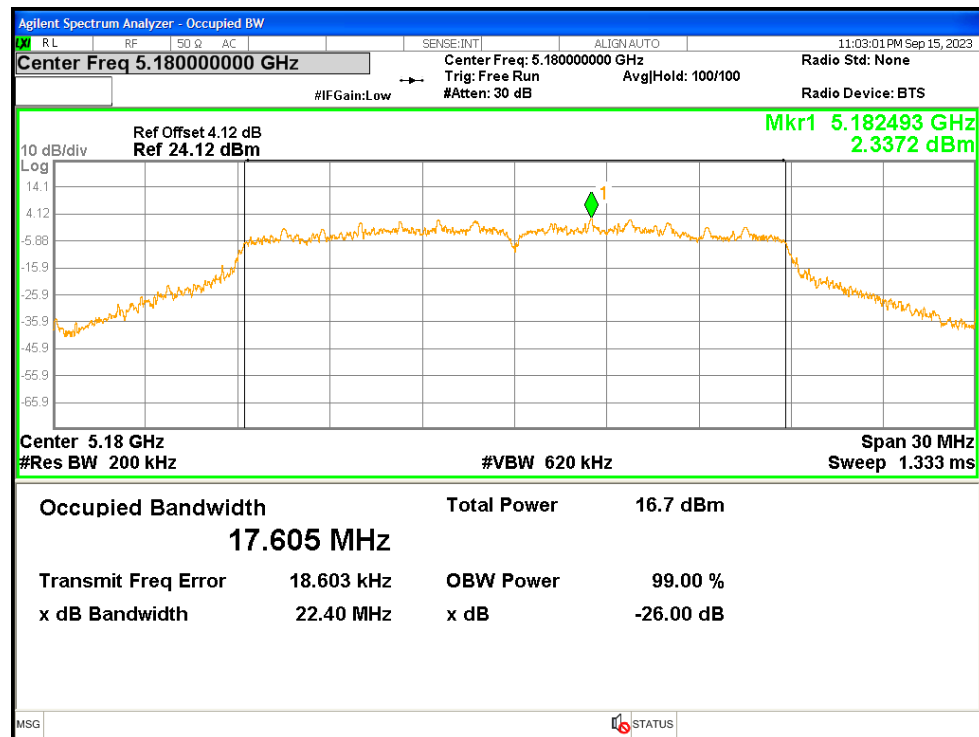
OBW NVNT a 5200MHz Ant2



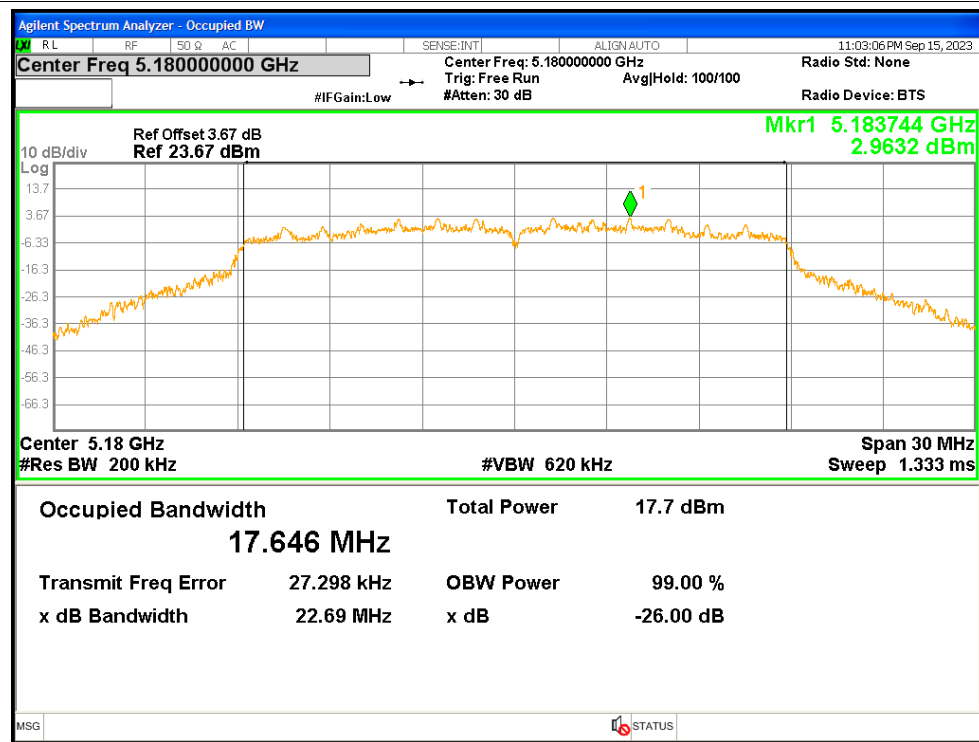
OBW NVNT a 5240MHz Ant2



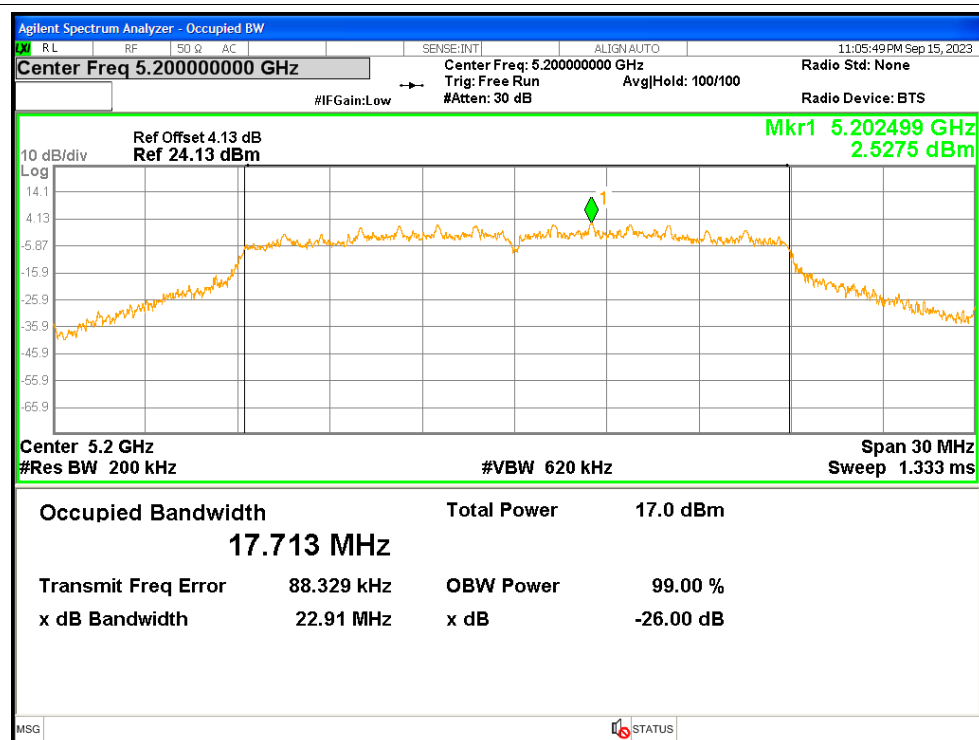
OBW NVNT ac20 5180MHz Ant1



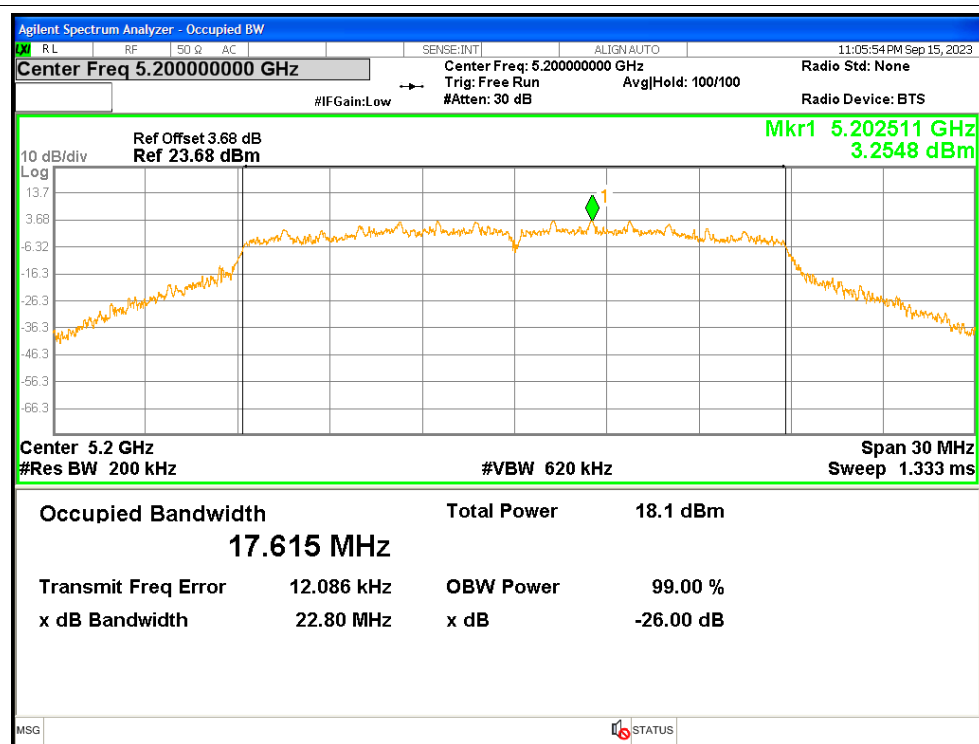
OBW NVNT ac20 5180MHz Ant2



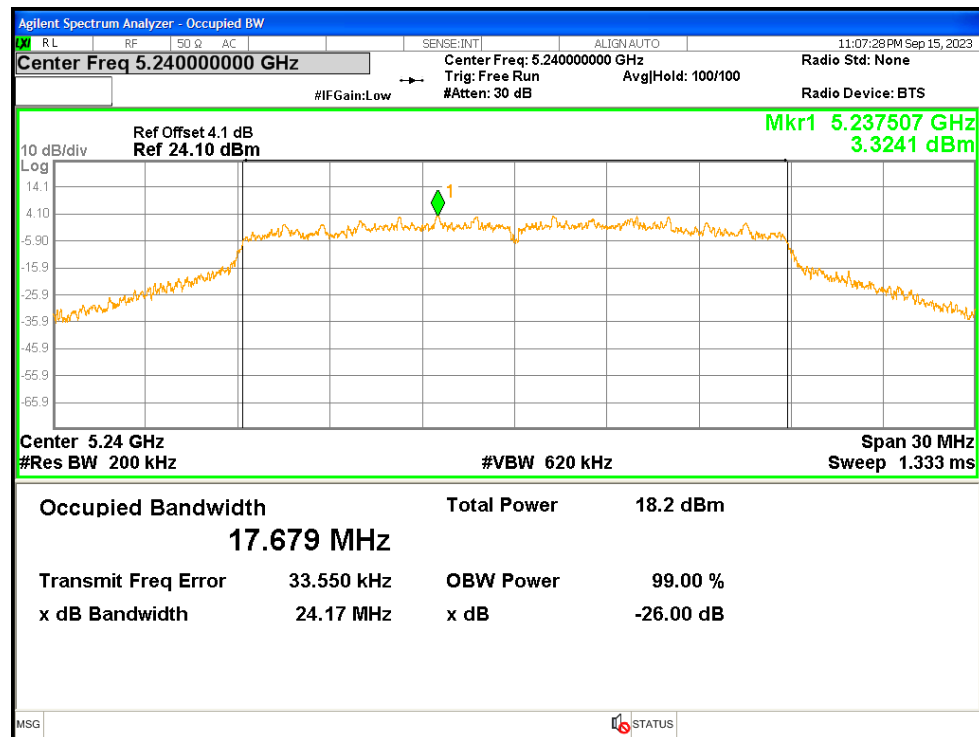
OBW NVNT ac20 5200MHz Ant1



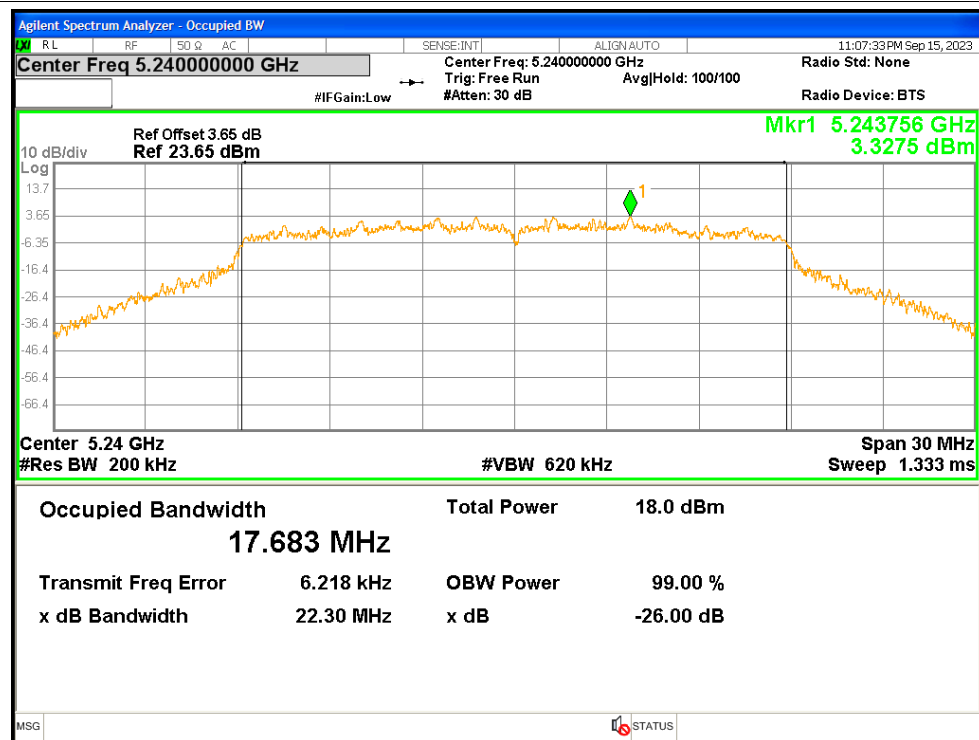
OBW NVNT ac20 5200MHz Ant2



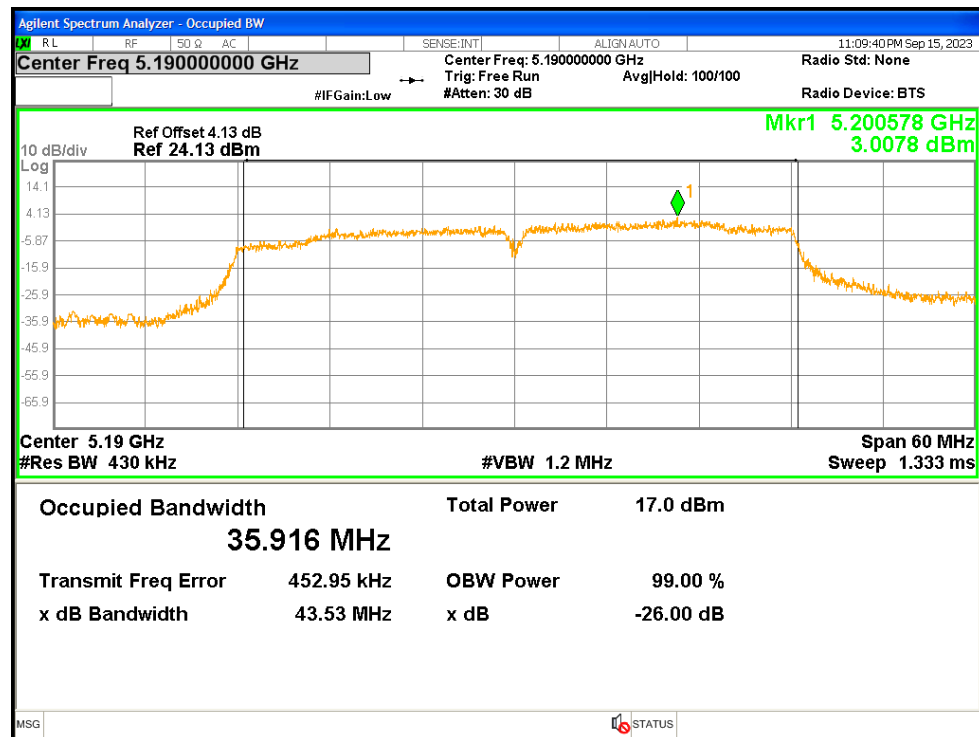
OBW NVNT ac20 5240MHz Ant1



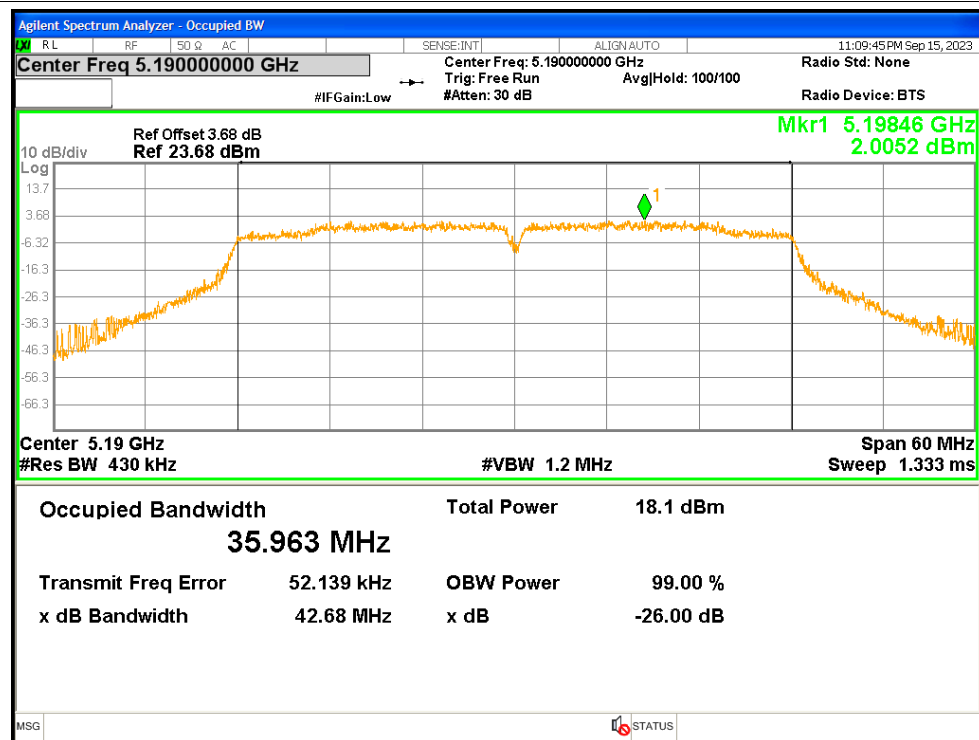
OBW NVNT ac20 5240MHz Ant2



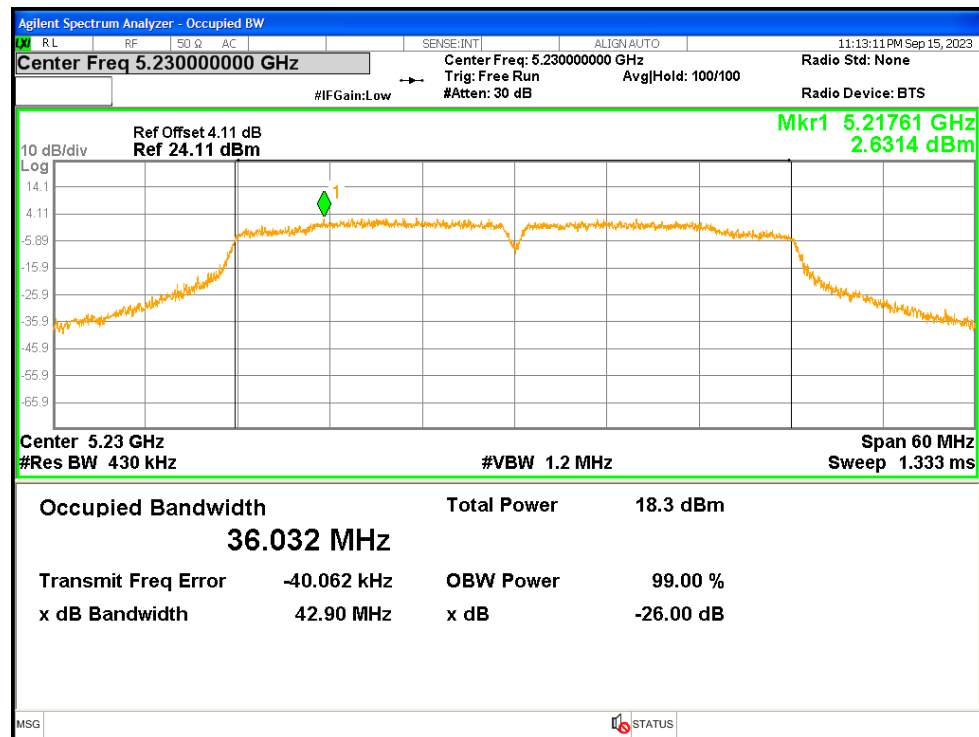
OBW NVNT ac40 5190MHz Ant1



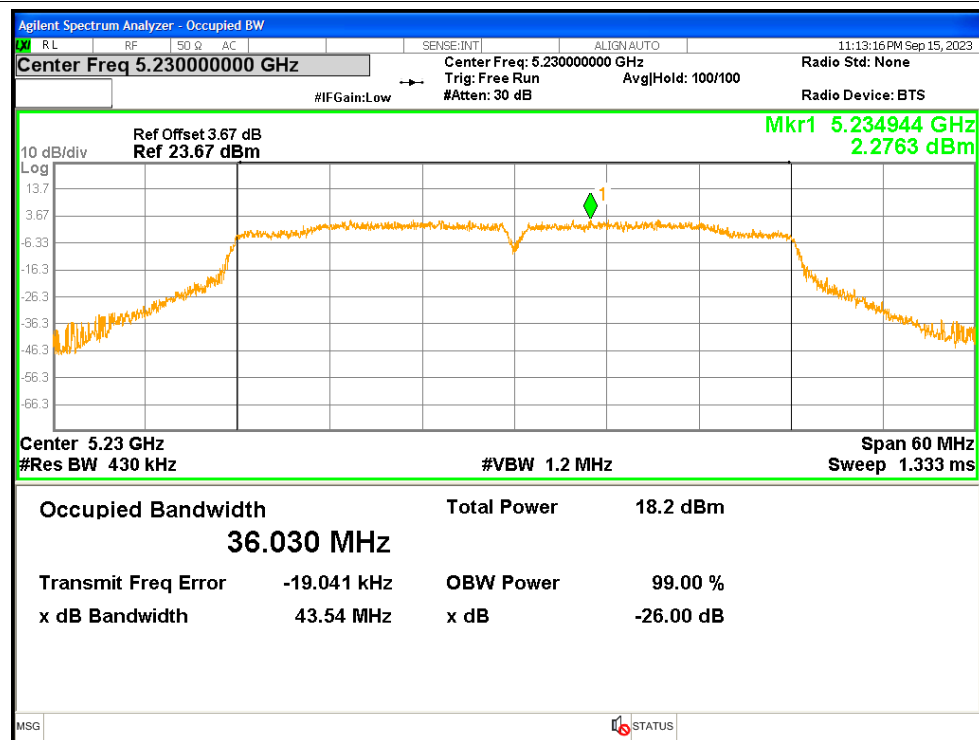
OBW NVNT ac40 5190MHz Ant2



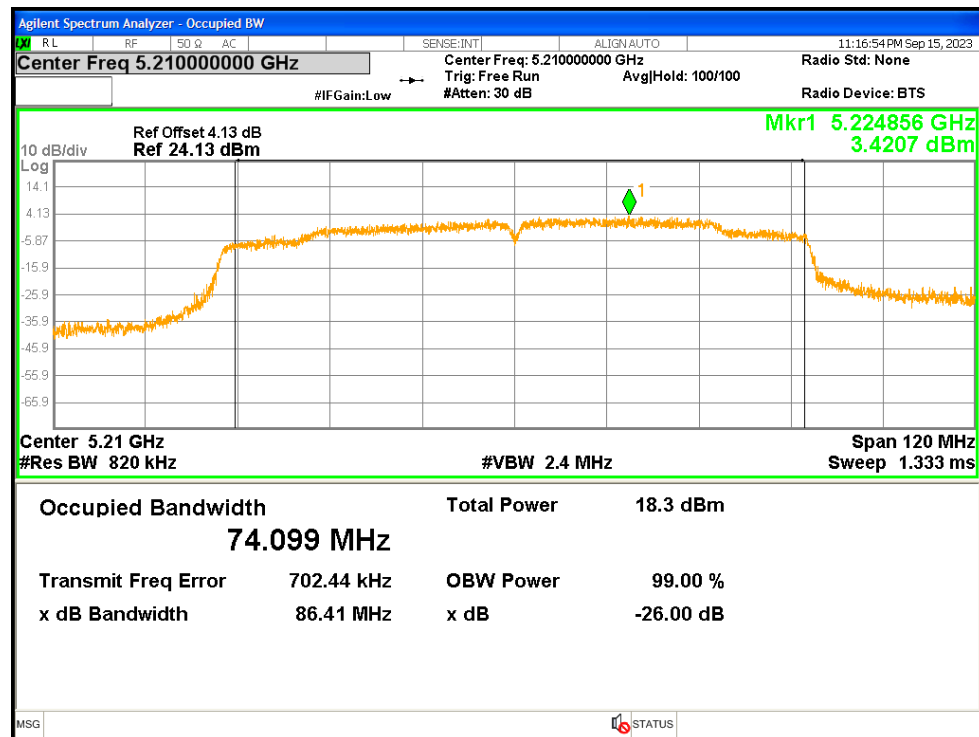
OBW NVNT ac40 5230MHz Ant1



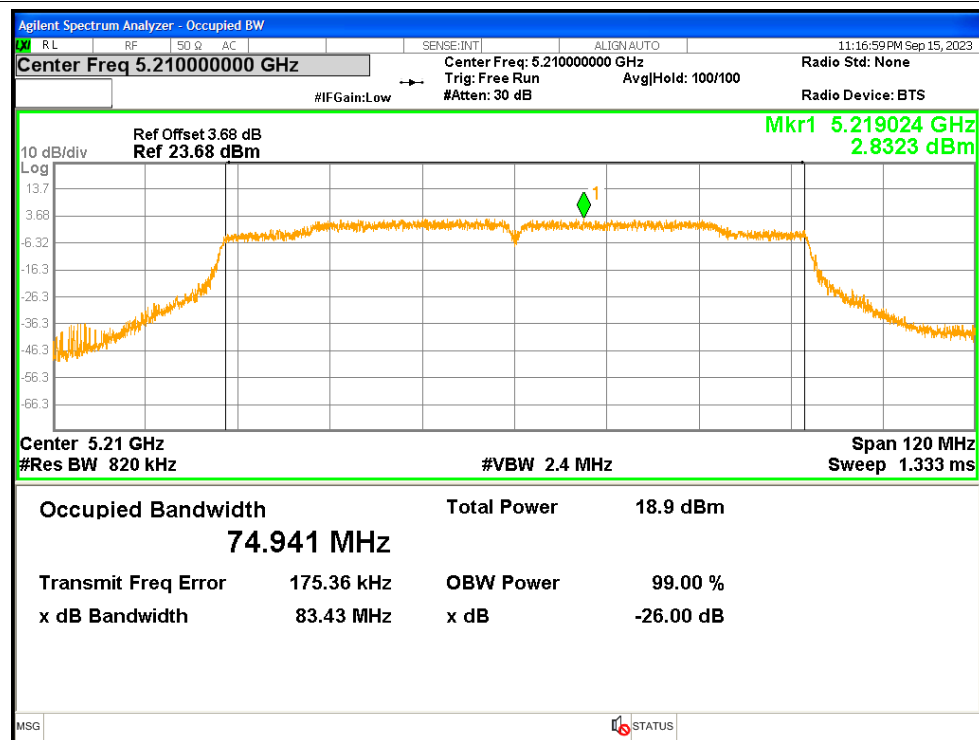
OBW NVNT ac40 5230MHz Ant2



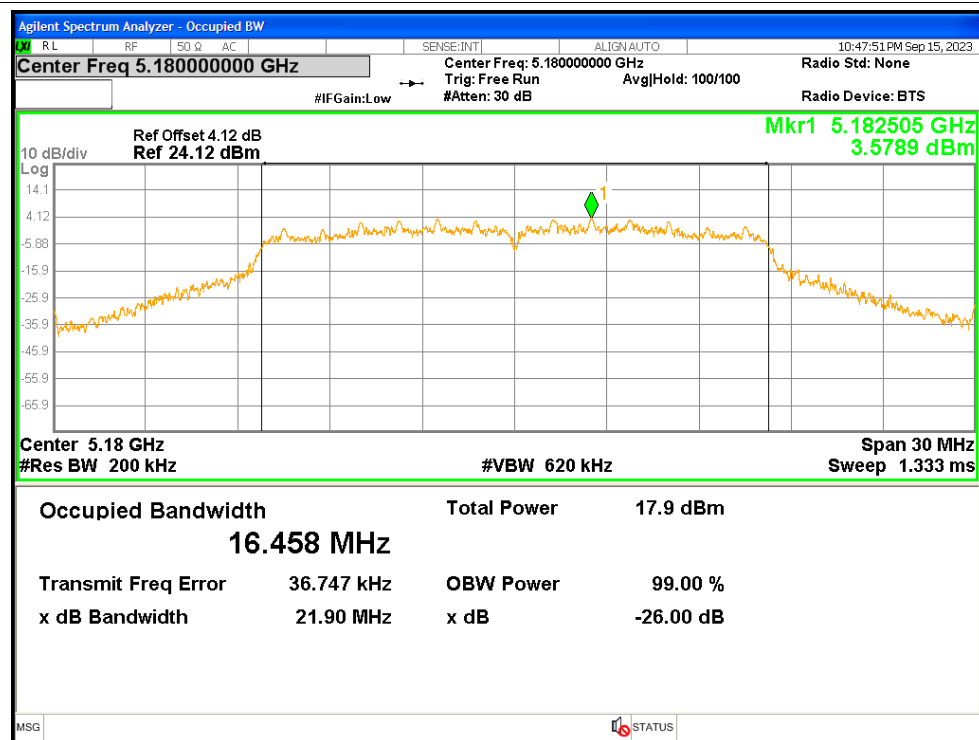
OBW NVNT ac80 5210MHz Ant1



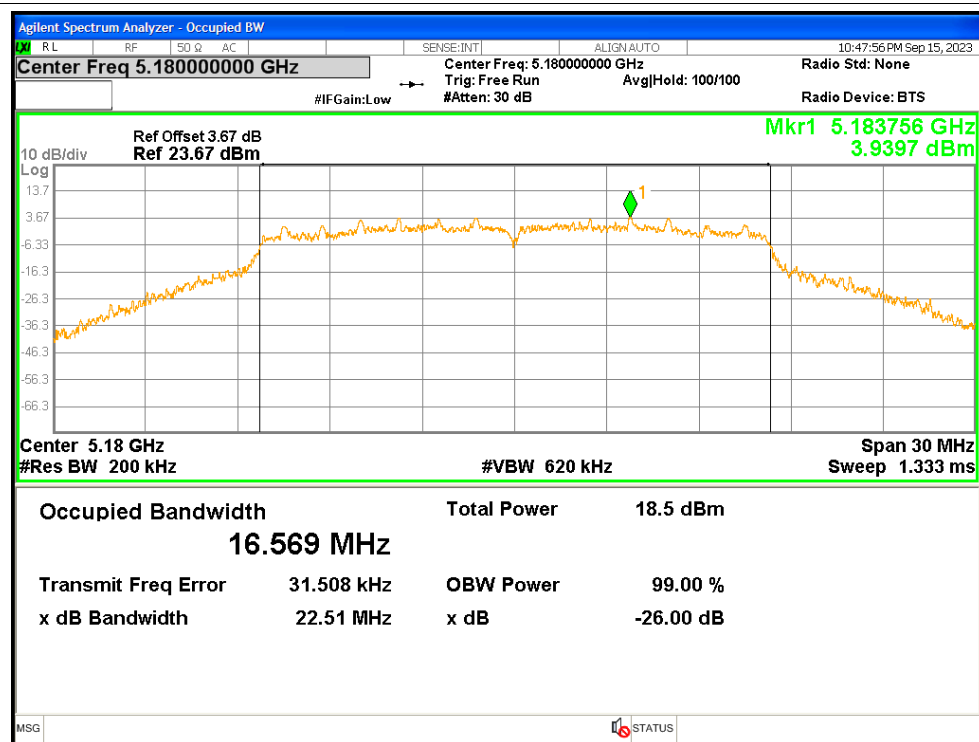
OBW NVNT ac80 5210MHz Ant2



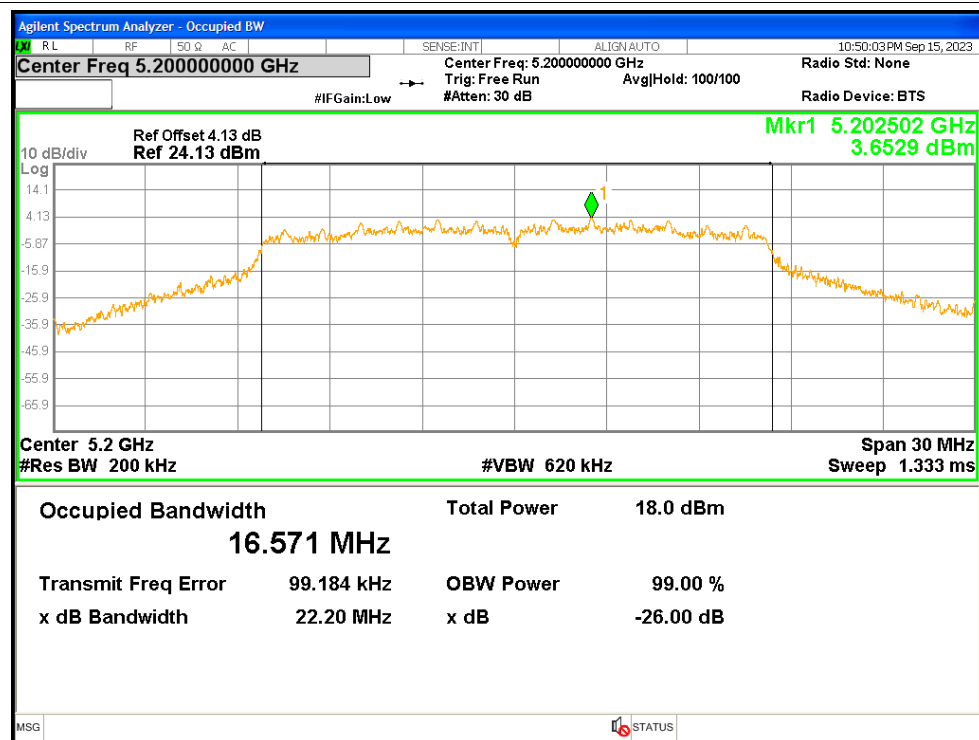
OBW NVNT n20 5180MHz Ant1



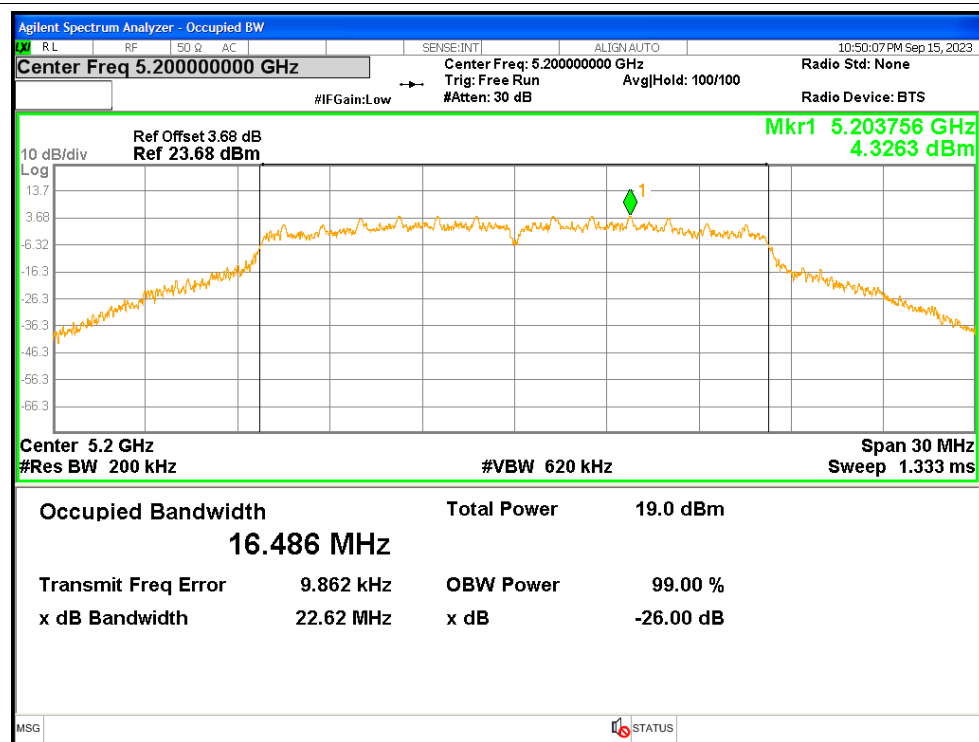
OBW NVNT n20 5180MHz Ant2



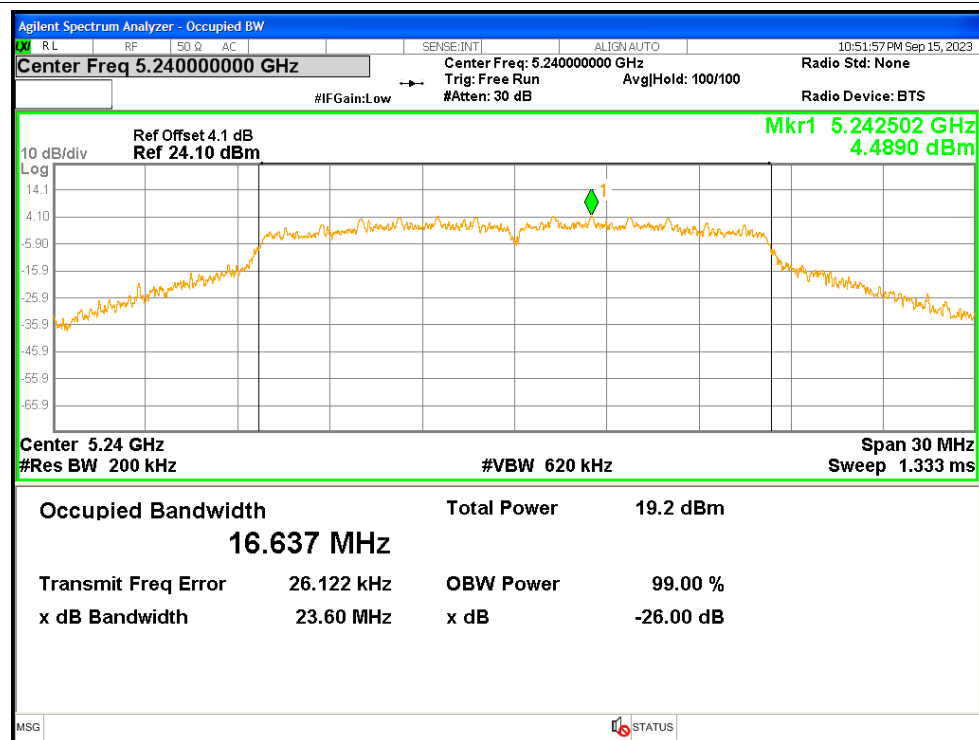
OBW NVNT n20 5200MHz Ant1



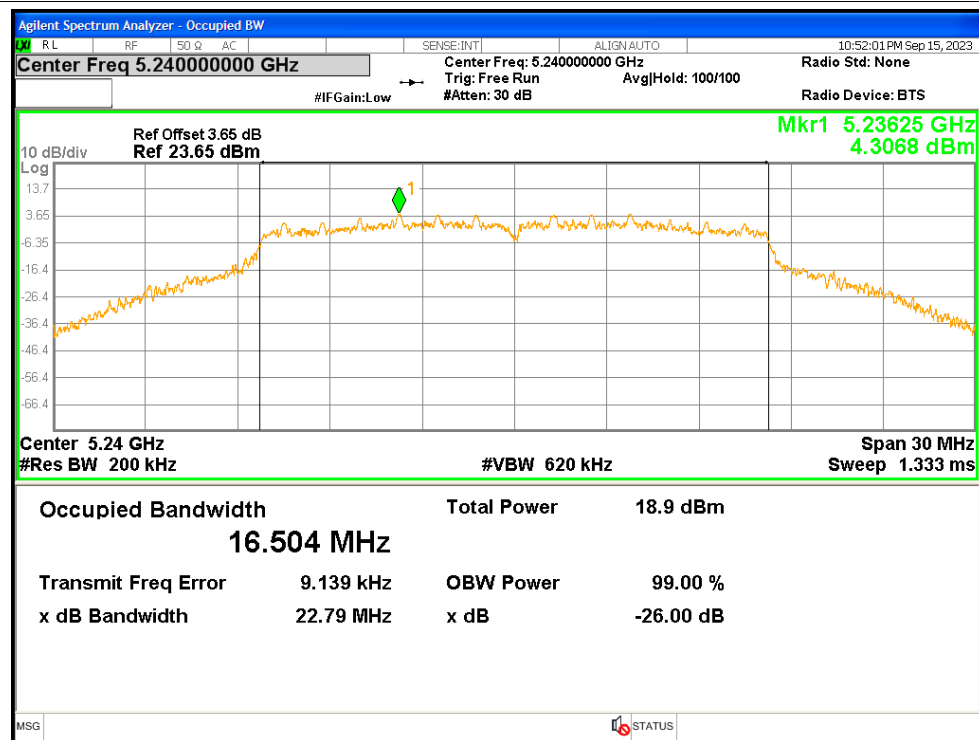
OBW NVNT n20 5200MHz Ant2



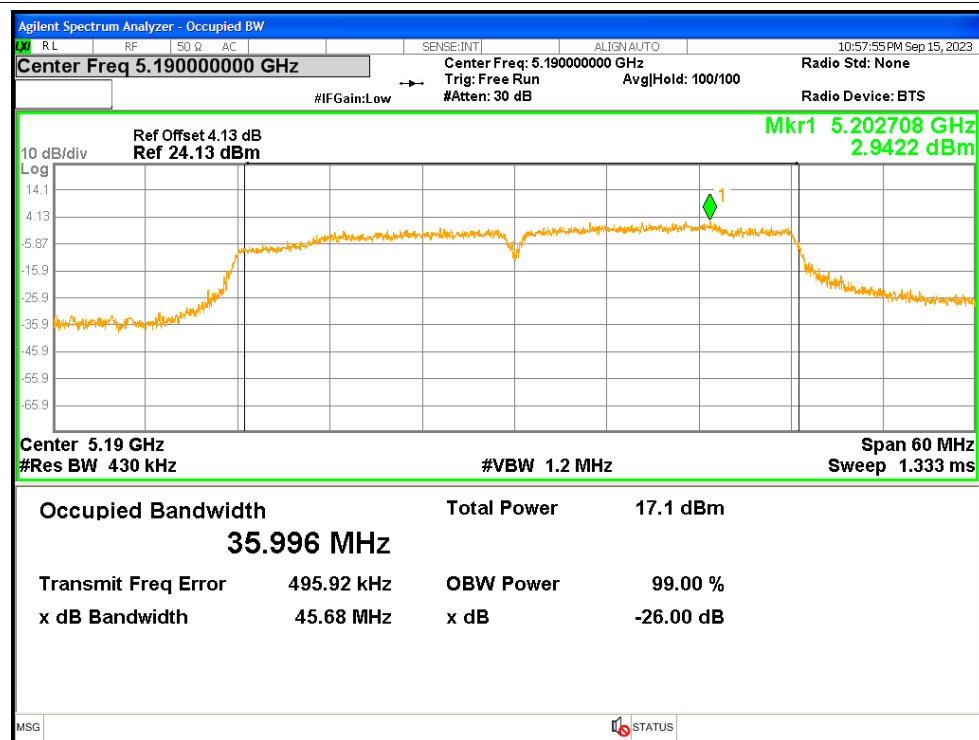
OBW NVNT n20 5240MHz Ant1



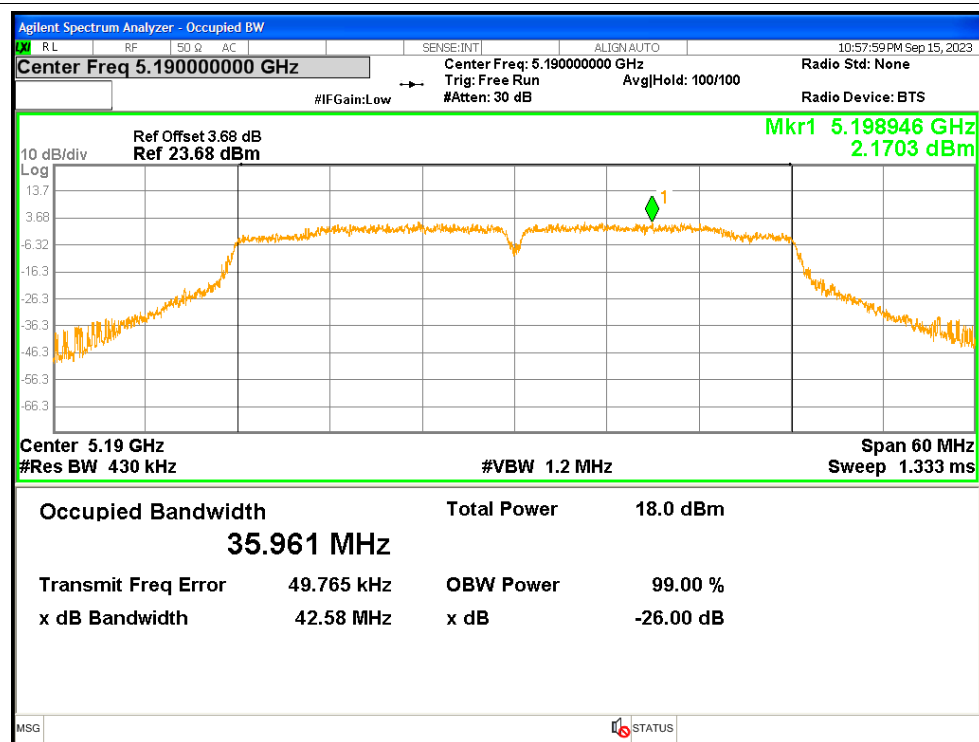
OBW NVNT n20 5240MHz Ant2



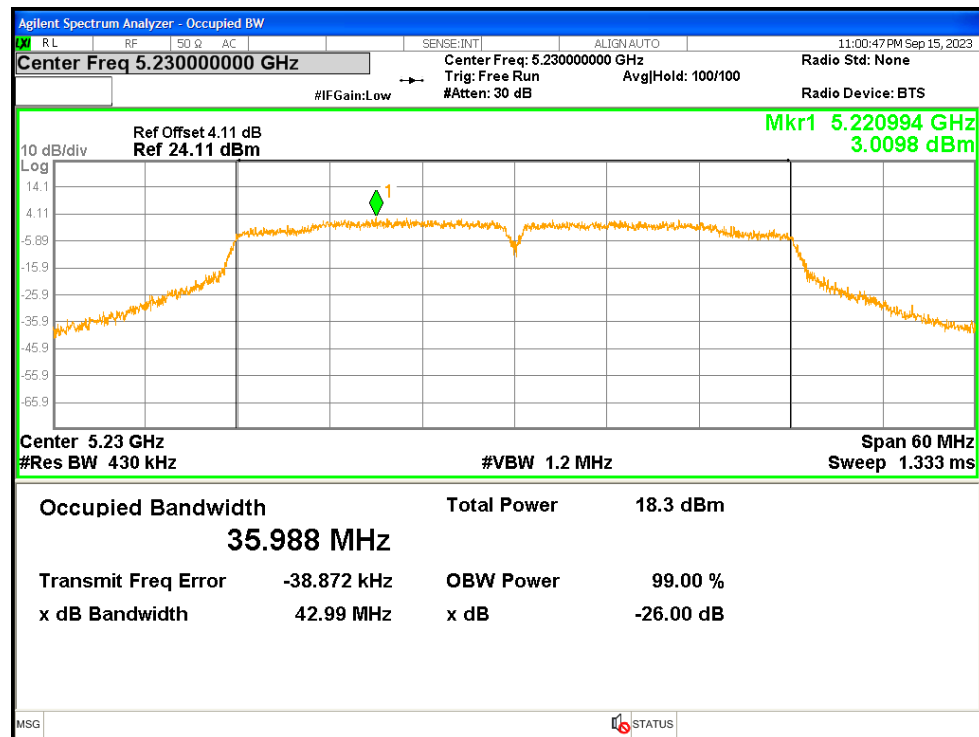
OBW NVNT n40 5190MHz Ant1



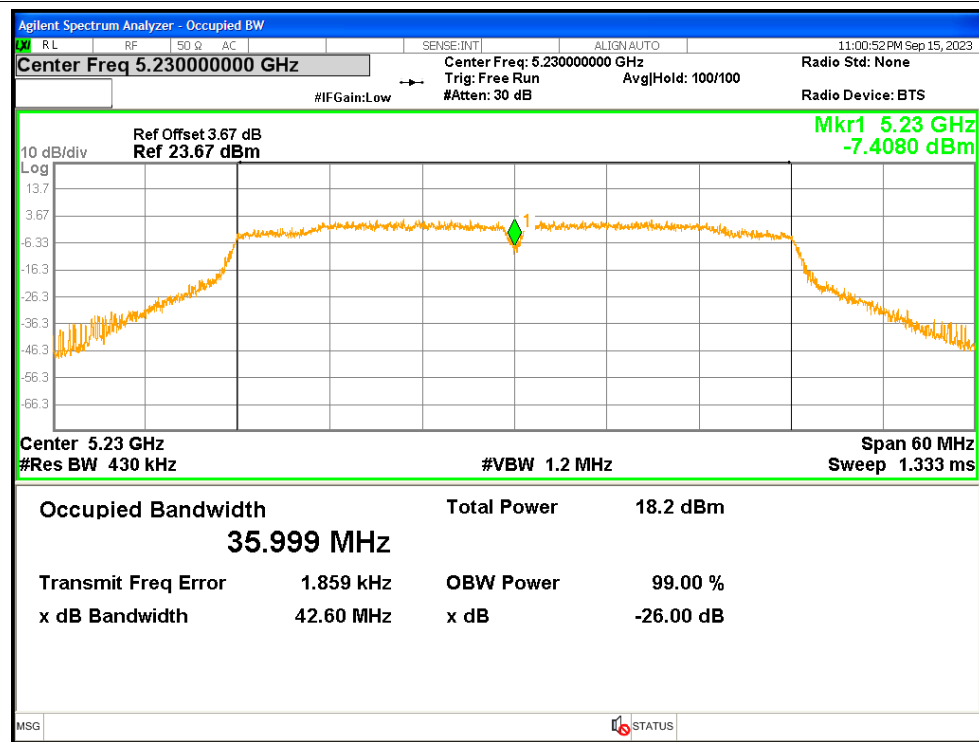
OBW NVNT n40 5190MHz Ant2



OBW NVNT n40 5230MHz Ant1



OBW NVNT n40 5230MHz Ant2

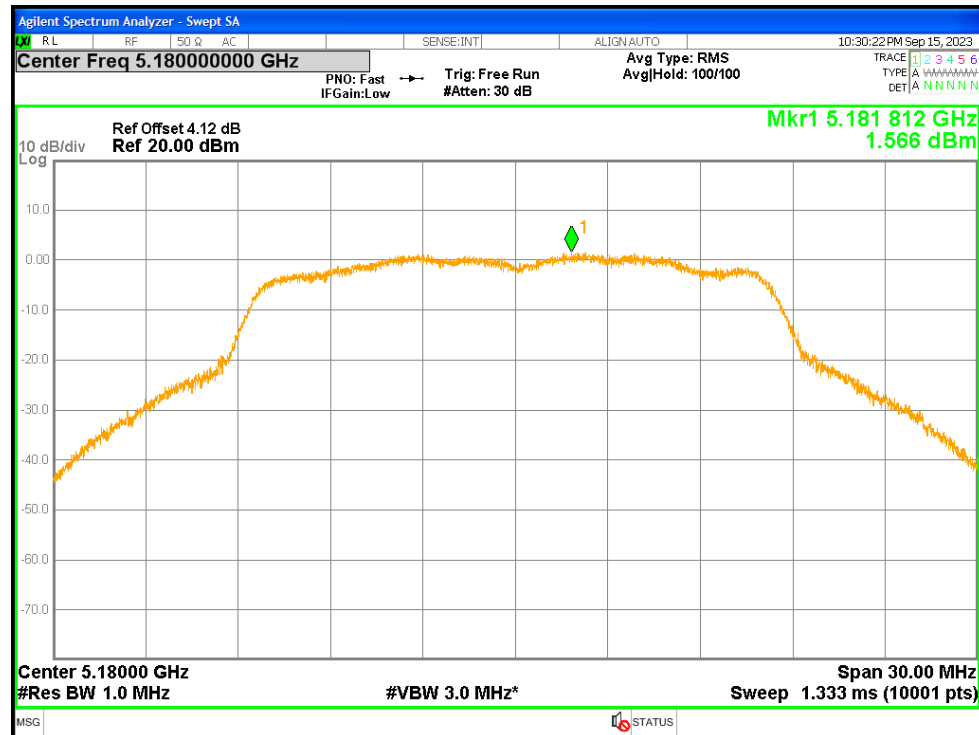


5. Maximum Power Spectral Density Level

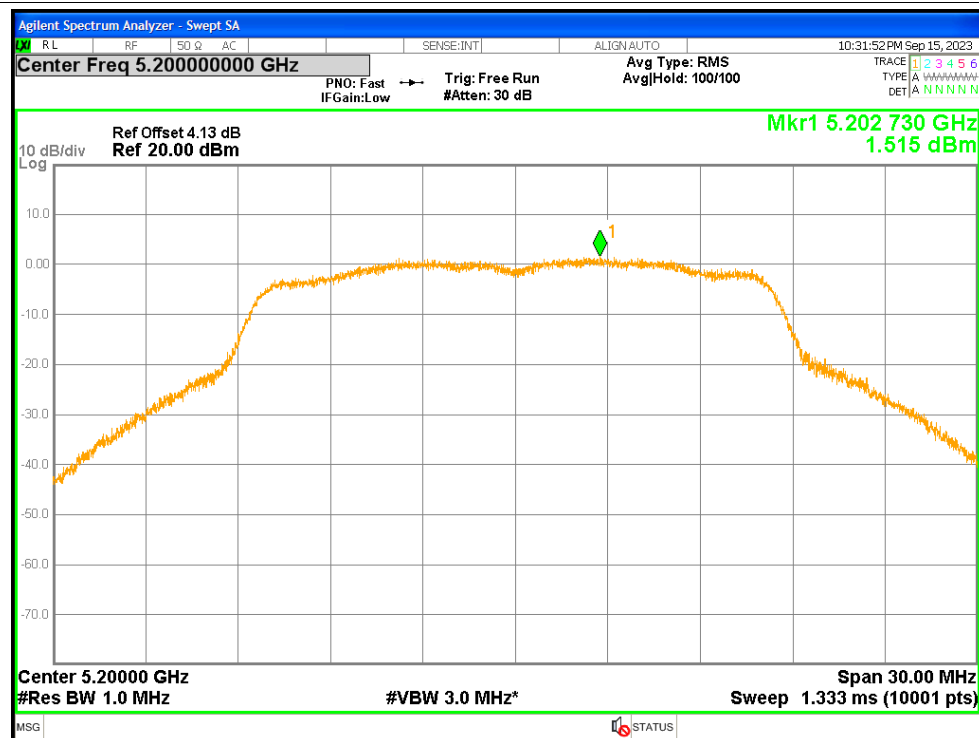
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.566	0.95	2.516	<=11	Pass
NVNT	a	5200	Ant1	1.515	0.94	2.455	<=11	Pass
NVNT	a	5240	Ant1	2.669	0.93	3.599	<=11	Pass
NVNT	a	5180	Ant2	2.513	0.94	3.453	<=11	Pass
NVNT	a	5200	Ant2	2.667	0.93	3.597	<=11	Pass
NVNT	a	5240	Ant2	2.882	0.94	3.822	<=11	Pass
NVNT	ac20	5180	Ant1	0.217	0.6	0.817	<=11	Pass
NVNT	ac20	5180	Ant2	1.372	0.6	1.972	<=11	Pass
NVNT	ac20	5180	Sum	3.843	0.6	4.443	<=11	Pass
NVNT	ac20	5200	Ant1	0.359	0.6	0.959	<=11	Pass
NVNT	ac20	5200	Ant2	1.669	0.6	2.269	<=11	Pass
NVNT	ac20	5200	Sum	4.074	0.6	4.674	<=11	Pass
NVNT	ac20	5240	Ant1	1.848	0.61	2.458	<=11	Pass
NVNT	ac20	5240	Ant2	1.481	0.61	2.091	<=11	Pass
NVNT	ac20	5240	Sum	4.679	0.61	5.289	<=11	Pass
NVNT	ac40	5190	Ant1	-4.582	0.66	-3.922	<=11	Pass
NVNT	ac40	5190	Ant2	-6.323	0.66	-5.663	<=11	Pass
NVNT	ac40	5190	Sum	-2.356	0.66	-1.696	<=11	Pass
NVNT	ac40	5230	Ant1	-3.797	0.62	-3.177	<=11	Pass
NVNT	ac40	5230	Ant2	-5.894	0.62	-5.274	<=11	Pass
NVNT	ac40	5230	Sum	-1.71	0.62	-1.09	<=11	Pass
NVNT	ac80	5210	Ant1	-7.102	0.67	-6.432	<=11	Pass
NVNT	ac80	5210	Ant2	-8.986	0.67	-8.316	<=11	Pass
NVNT	ac80	5210	Sum	-4.932	0.67	-4.262	<=11	Pass
NVNT	n20	5180	Ant1	0.368	0.95	1.318	<=11	Pass
NVNT	n20	5180	Ant2	1.168	0.95	2.118	<=11	Pass
NVNT	n20	5180	Sum	3.797	0.95	4.747	<=11	Pass
NVNT	n20	5200	Ant1	0.554	0.92	1.474	<=11	Pass
NVNT	n20	5200	Ant2	1.946	0.92	2.866	<=11	Pass
NVNT	n20	5200	Sum	4.316	0.92	5.236	<=11	Pass
NVNT	n20	5240	Ant1	1.656	0.94	2.596	<=11	Pass
NVNT	n20	5240	Ant2	1.546	0.94	2.486	<=11	Pass
NVNT	n20	5240	Sum	4.612	0.94	5.552	<=11	Pass
NVNT	n40	5190	Ant1	-4.693	0.58	-4.113	<=11	Pass
NVNT	n40	5190	Ant2	-6.29	0.58	-5.71	<=11	Pass
NVNT	n40	5190	Sum	-2.408	0.58	-1.828	<=11	Pass
NVNT	n40	5230	Ant1	-3.621	0.55	-3.071	<=11	Pass
NVNT	n40	5230	Ant2	-5.904	0.55	-5.354	<=11	Pass
NVNT	n40	5230	Sum	-1.604	0.55	-1.054	<=11	Pass

Test Graphs

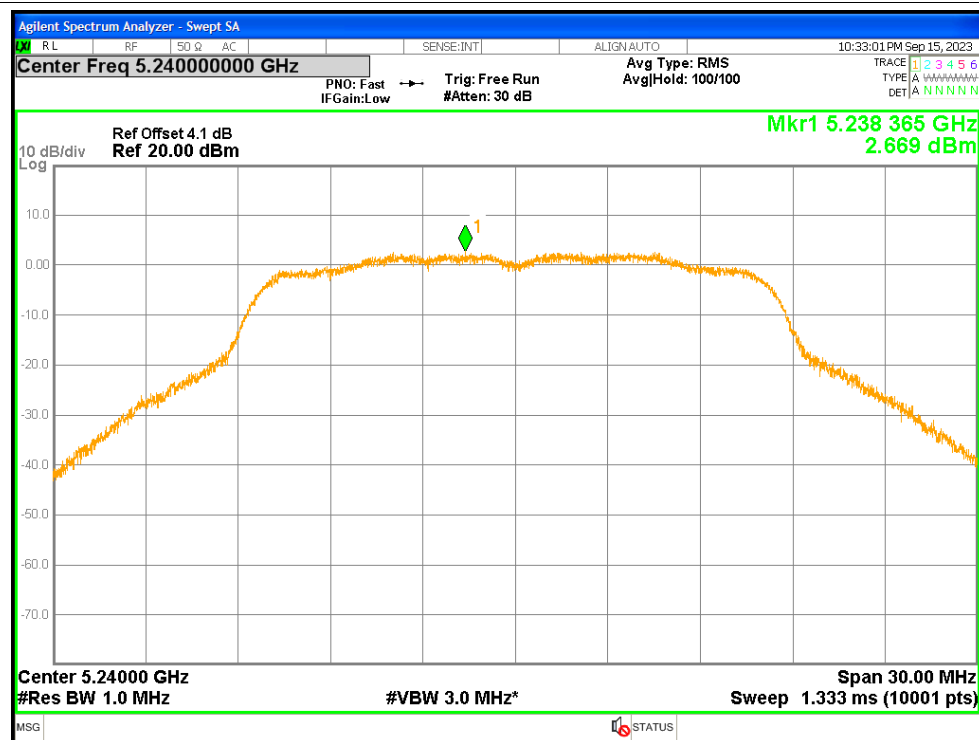
PSD NVNT a 5180MHz Ant1



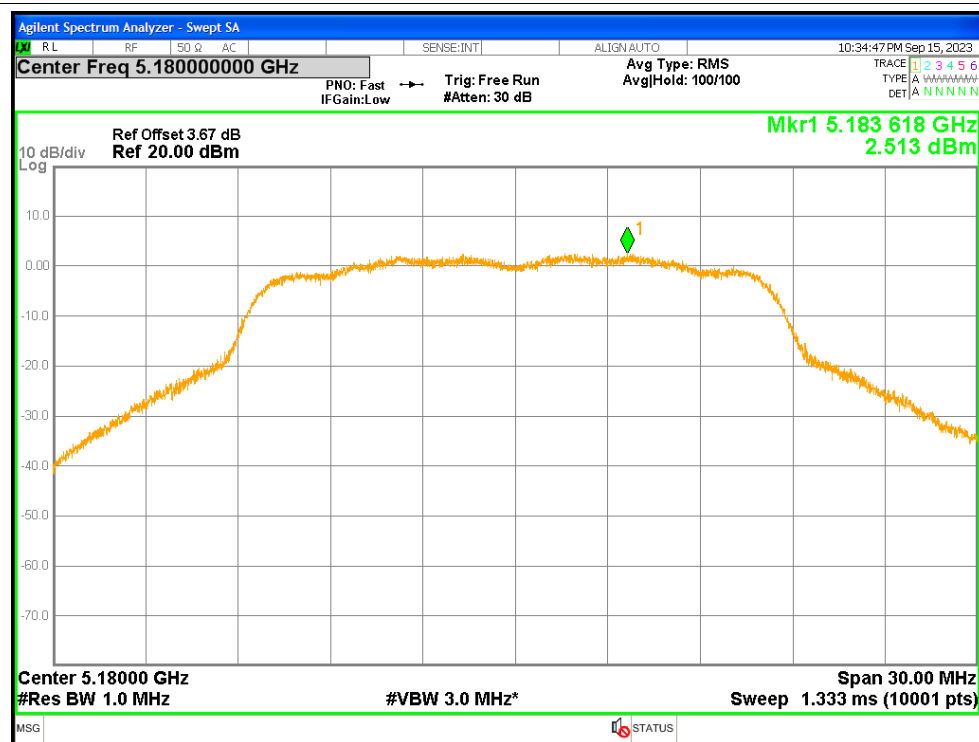
PSD NVNT a 5200MHz Ant1



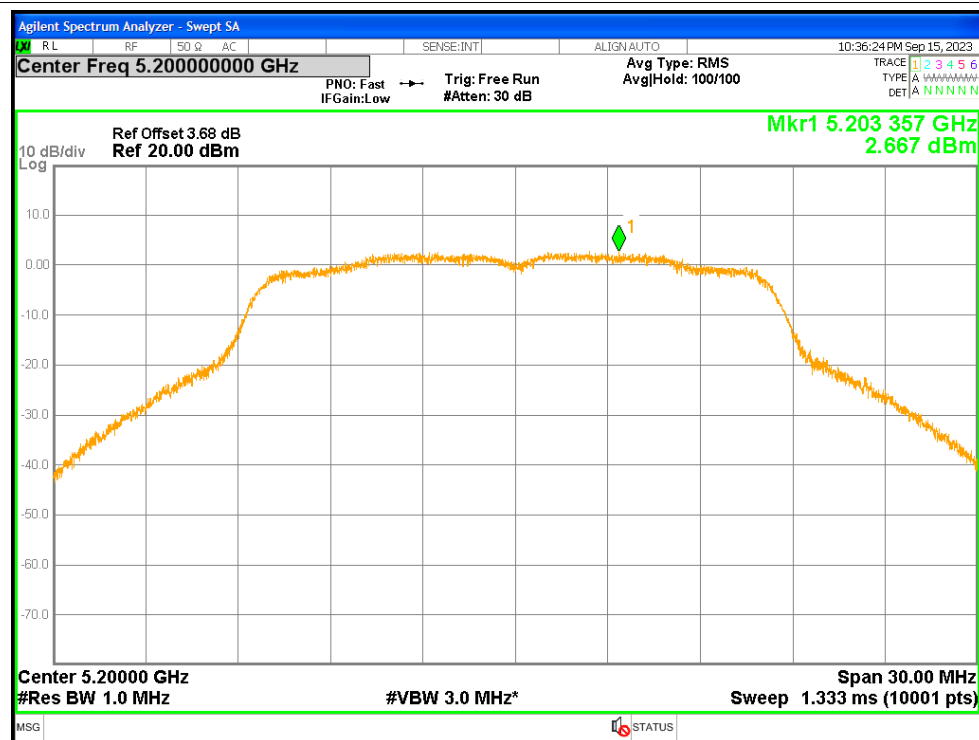
PSD NVNT a 5240MHz Ant1



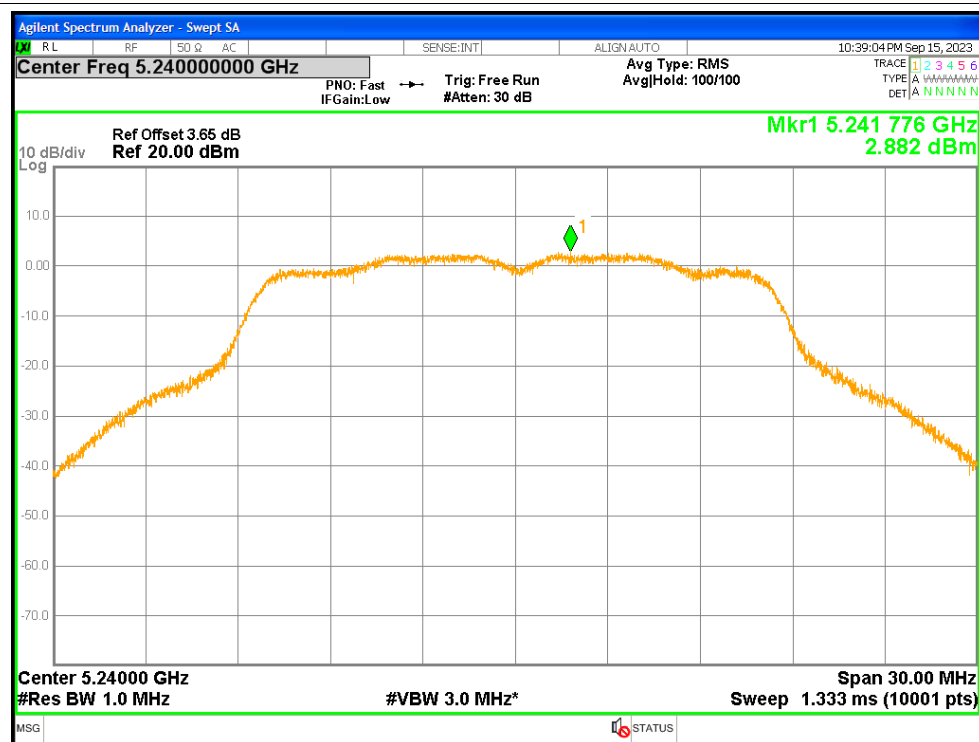
PSD NVNT a 5180MHz Ant2



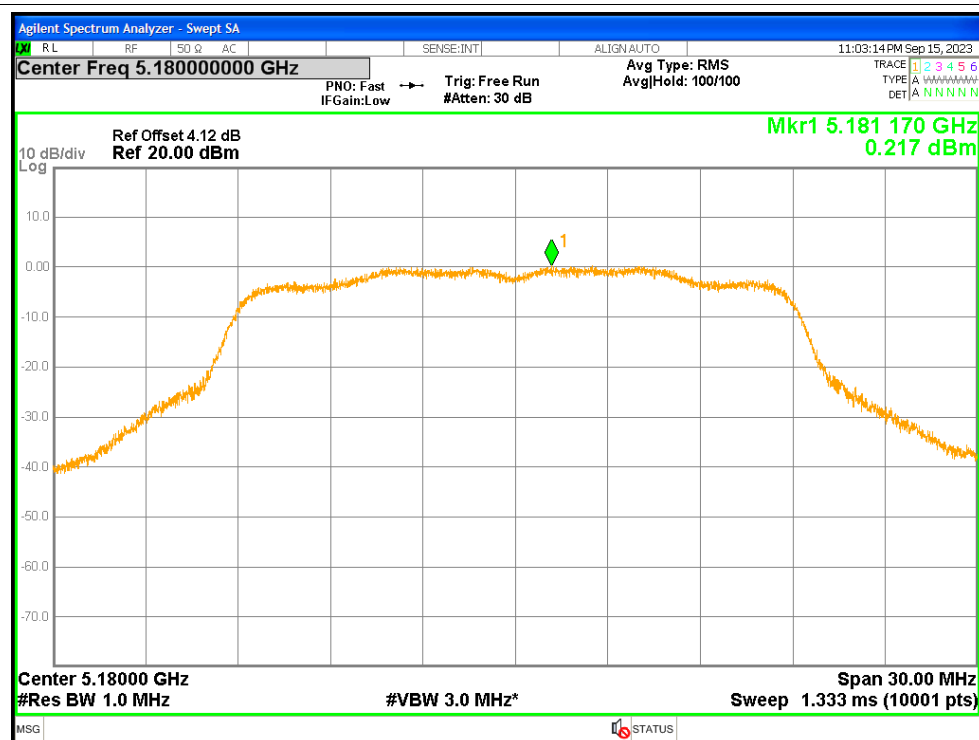
PSD NVNT a 5200MHz Ant2



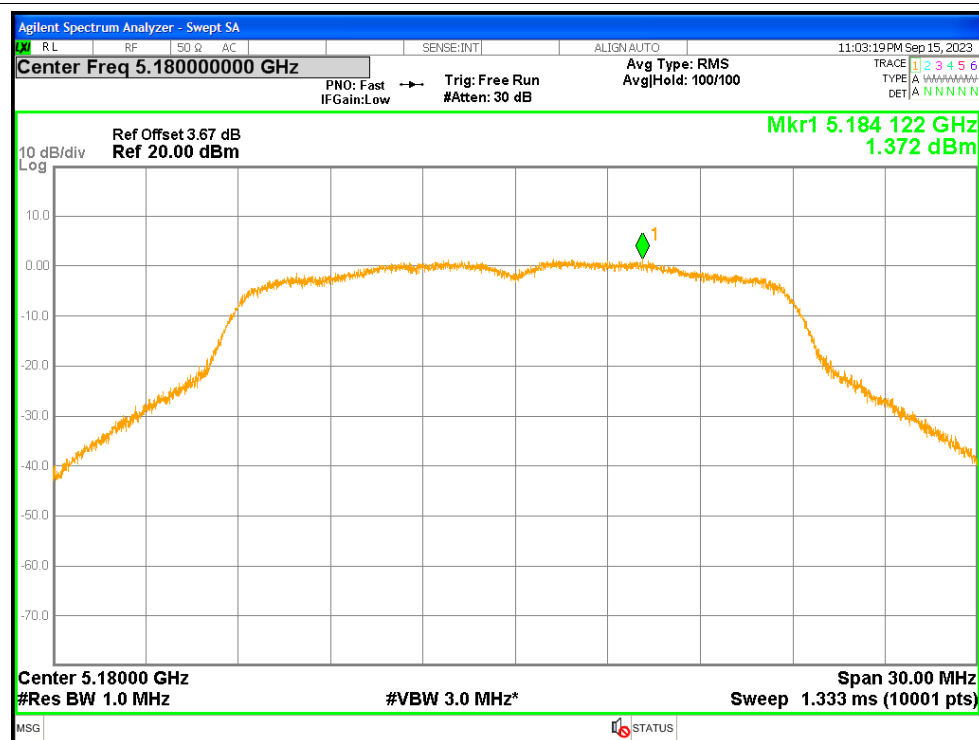
PSD NVNT a 5240MHz Ant2



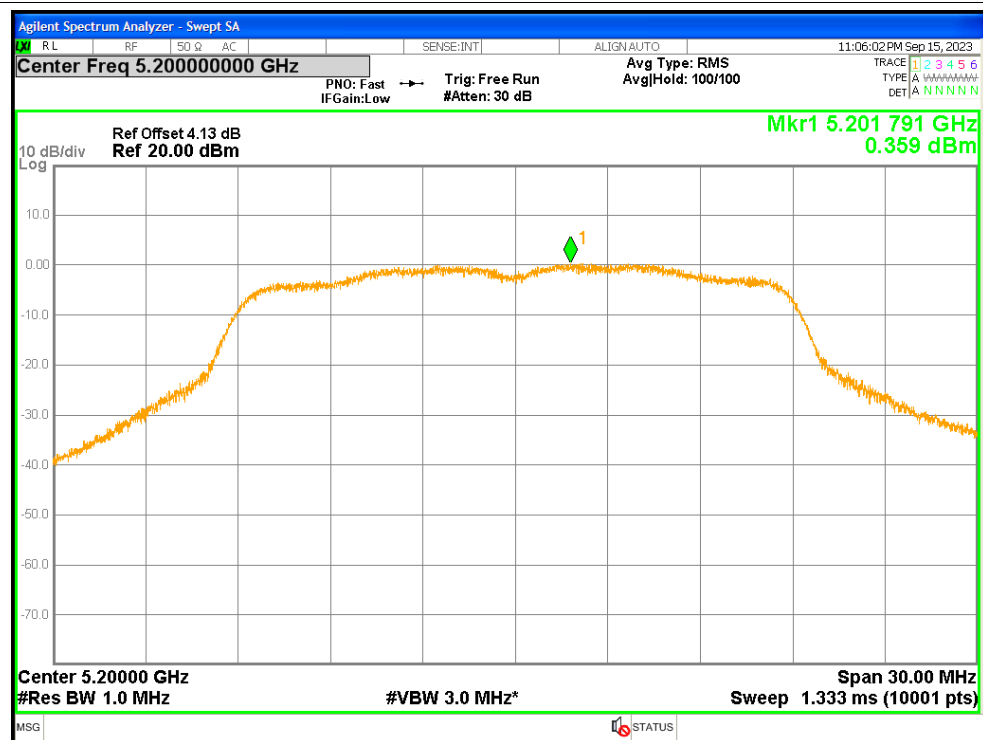
PSD NVNT ac20 5180MHz Ant1



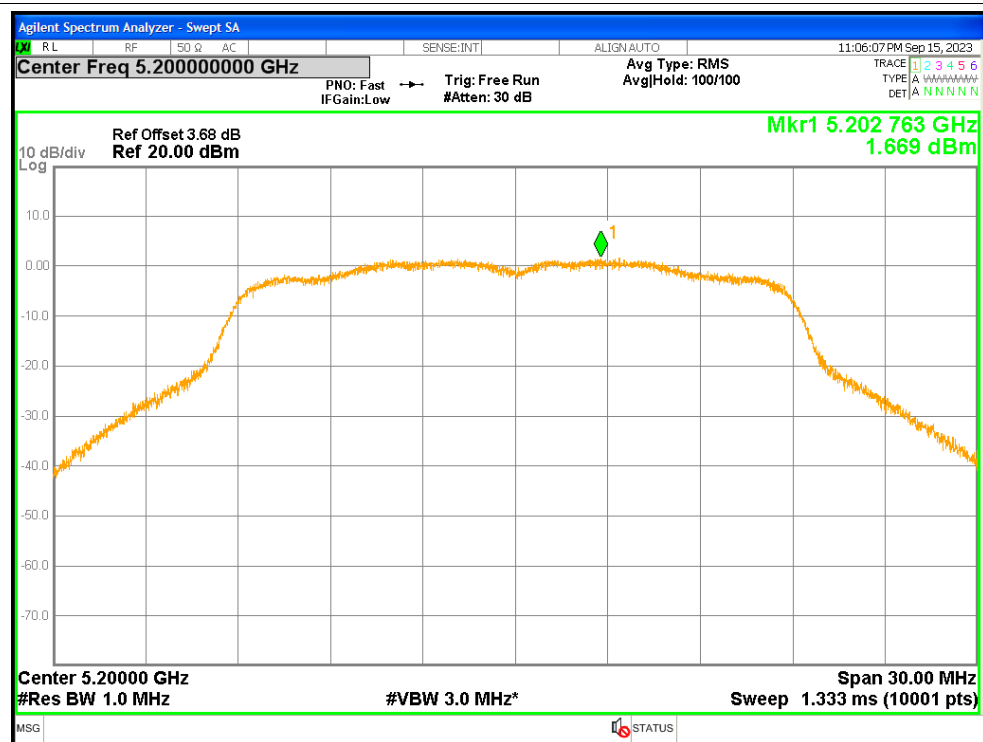
PSD NVNT ac20 5180MHz Ant2



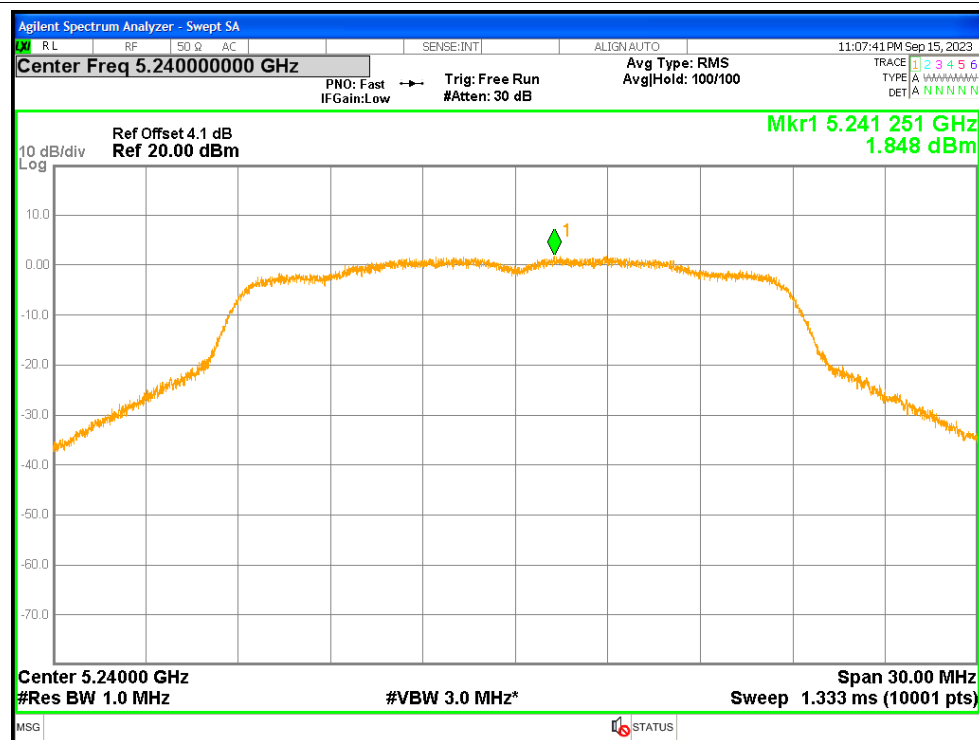
PSD NVNT ac20 5200MHz Ant1



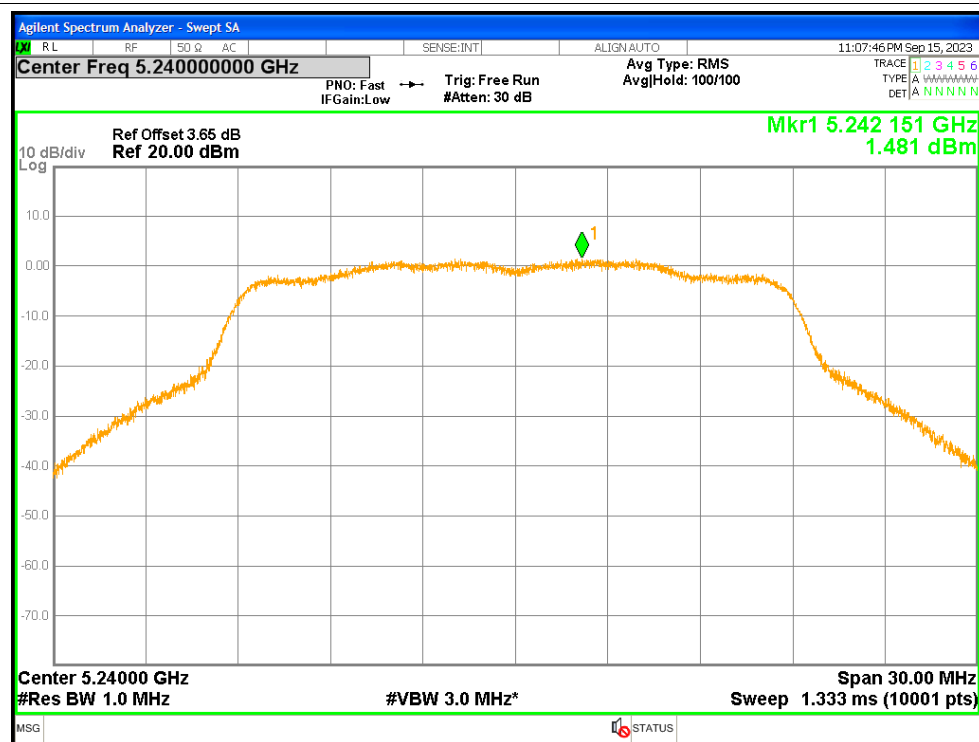
PSD NVNT ac20 5200MHz Ant2



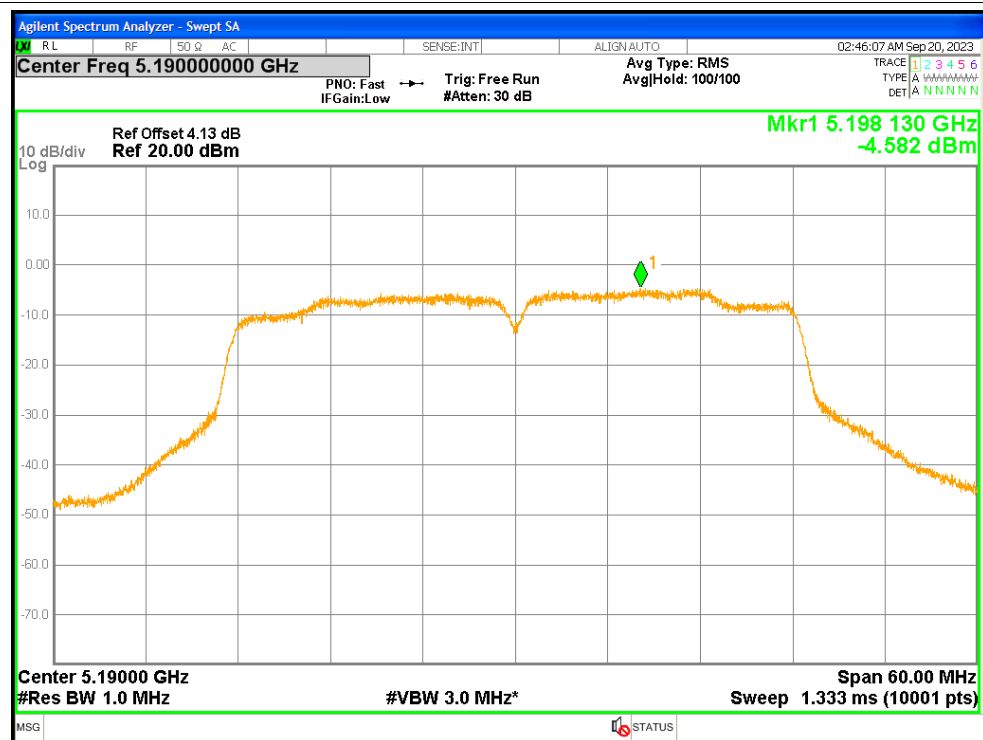
PSD NVNT ac20 5240MHz Ant1



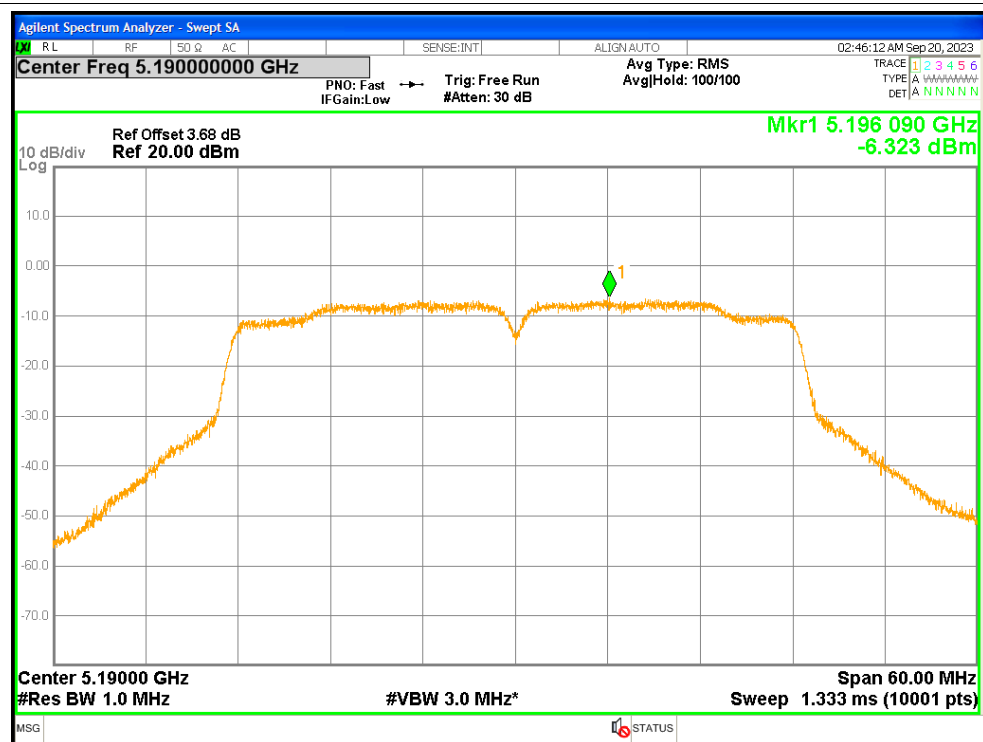
PSD NVNT ac20 5240MHz Ant2



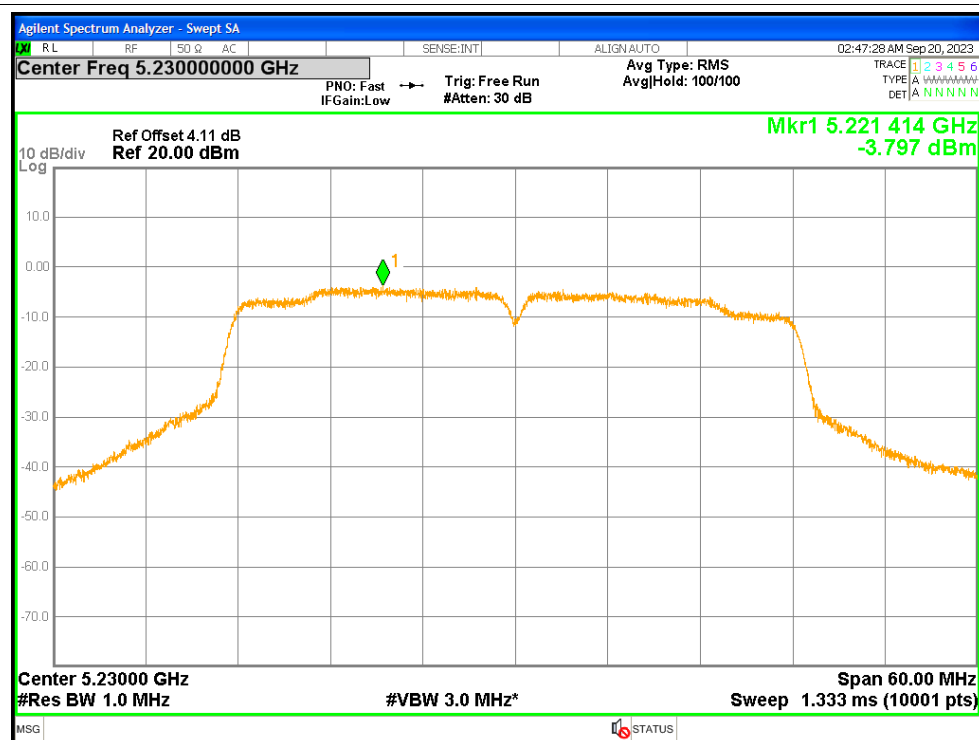
PSD NVNT ac40 5190MHz Ant1



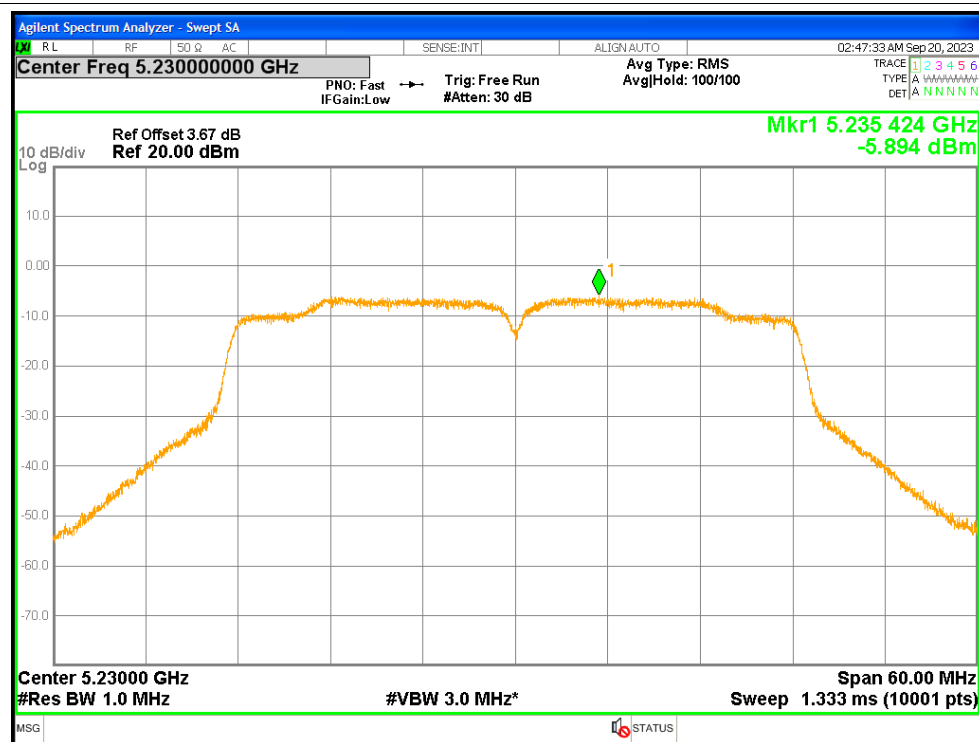
PSD NVNT ac40 5190MHz Ant2



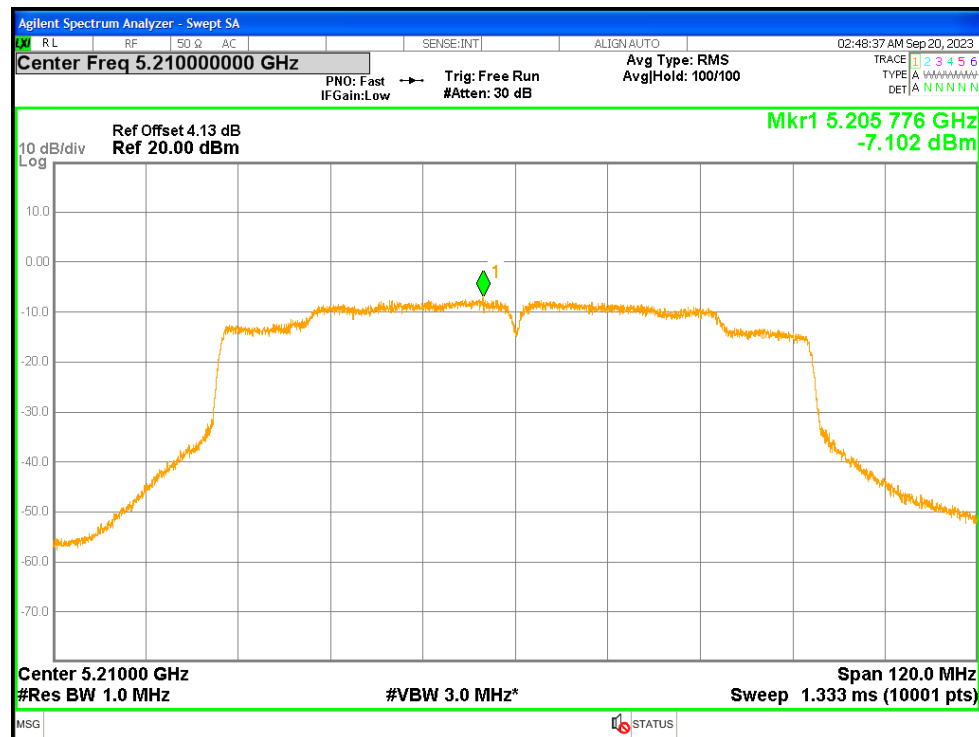
PSD NVNT ac40 5230MHz Ant1



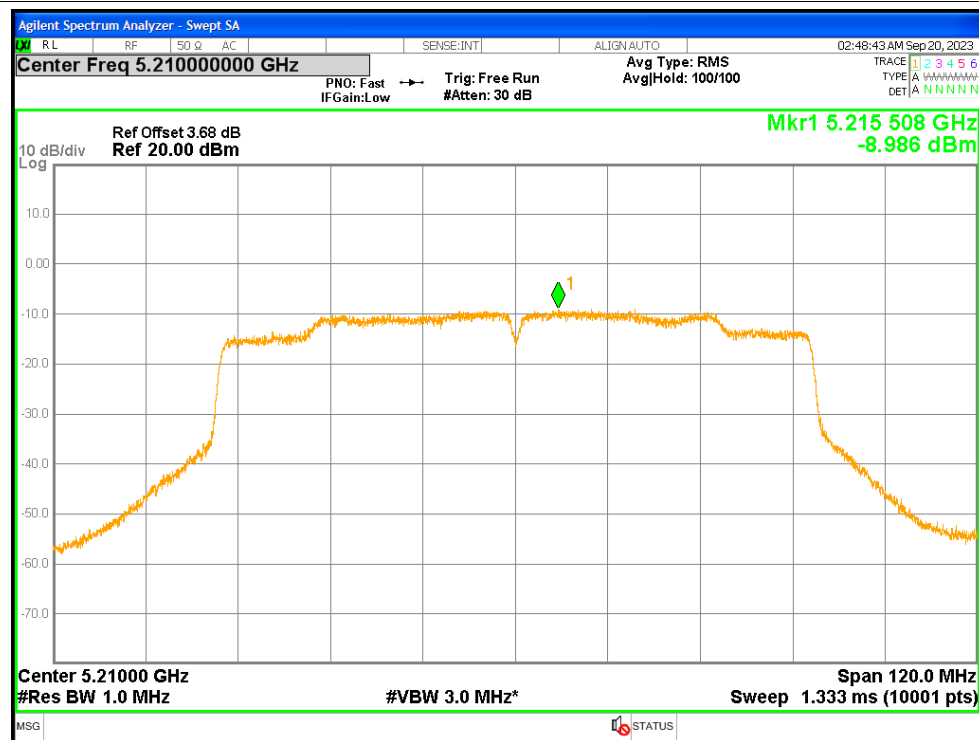
PSD NVNT ac40 5230MHz Ant2



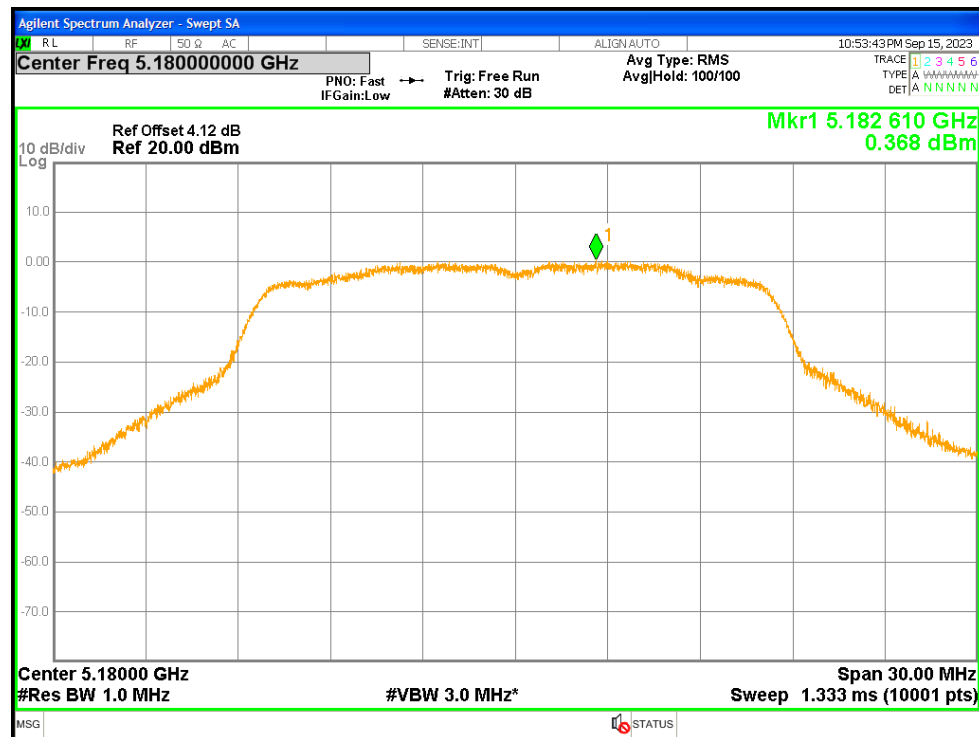
PSD NVNT ac80 5210MHz Ant1



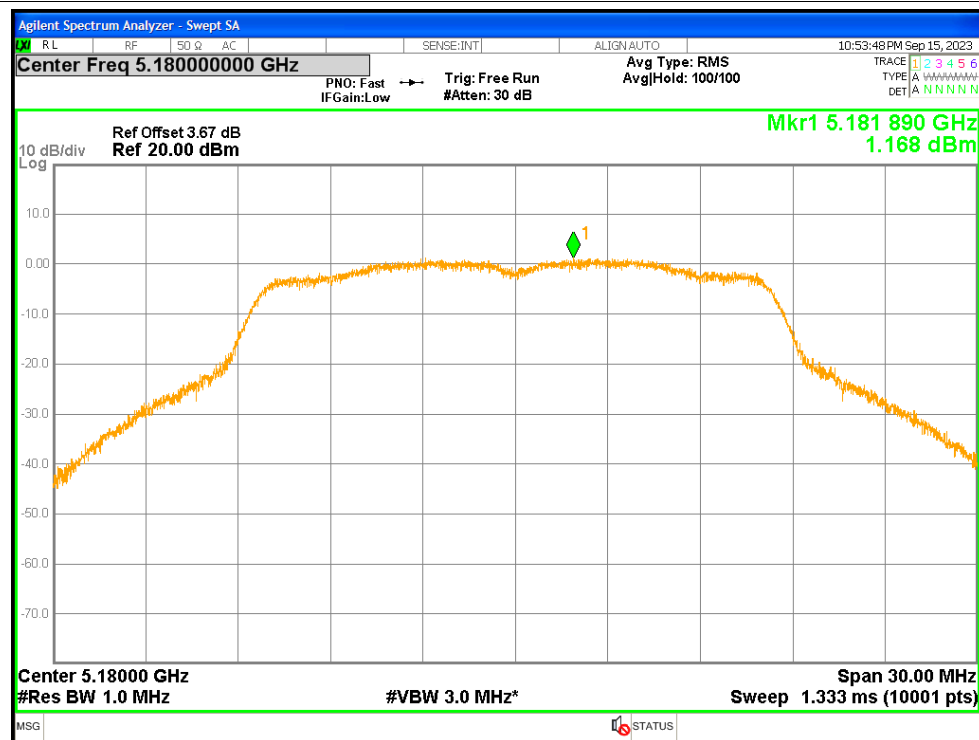
PSD NVNT ac80 5210MHz Ant2



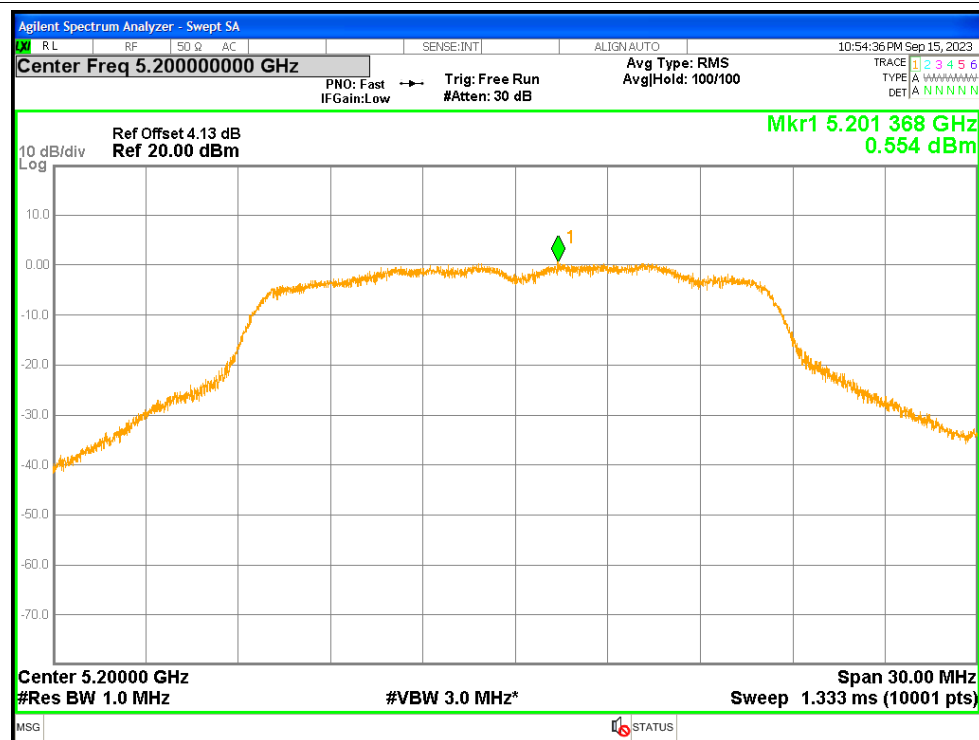
PSD NVNT n20 5180MHz Ant1



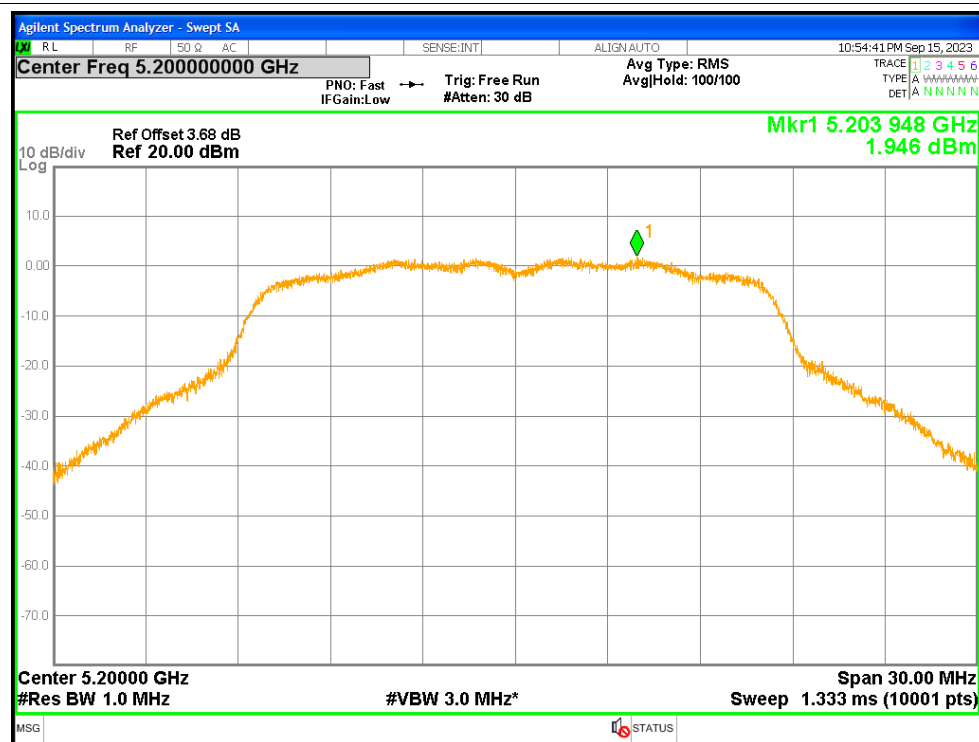
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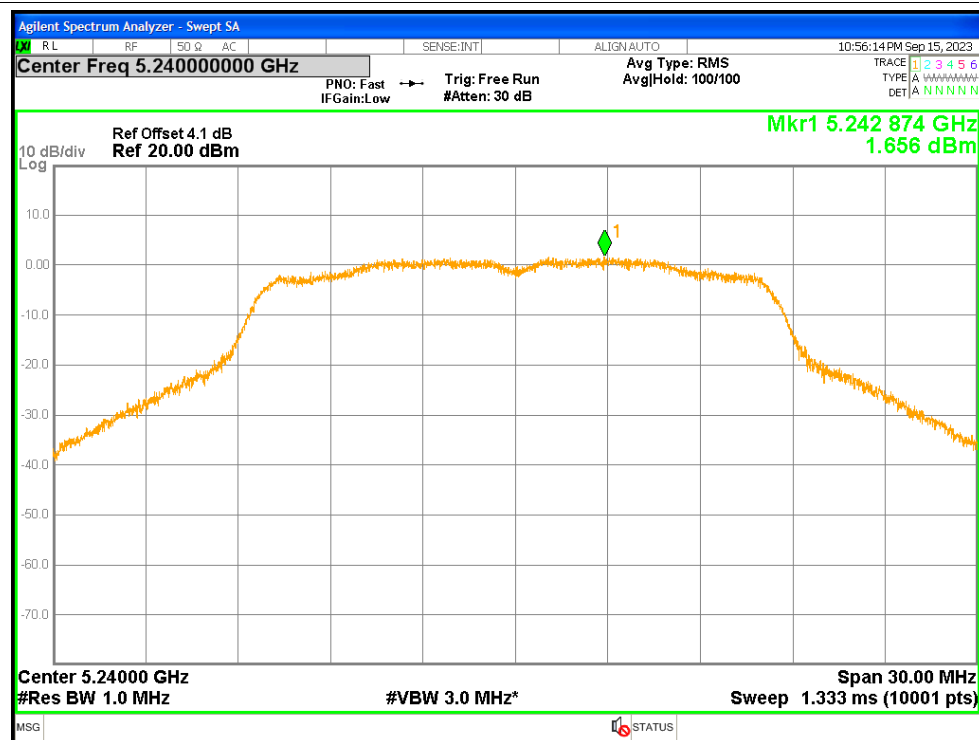
PSD NVNT n20 5200MHz Ant1



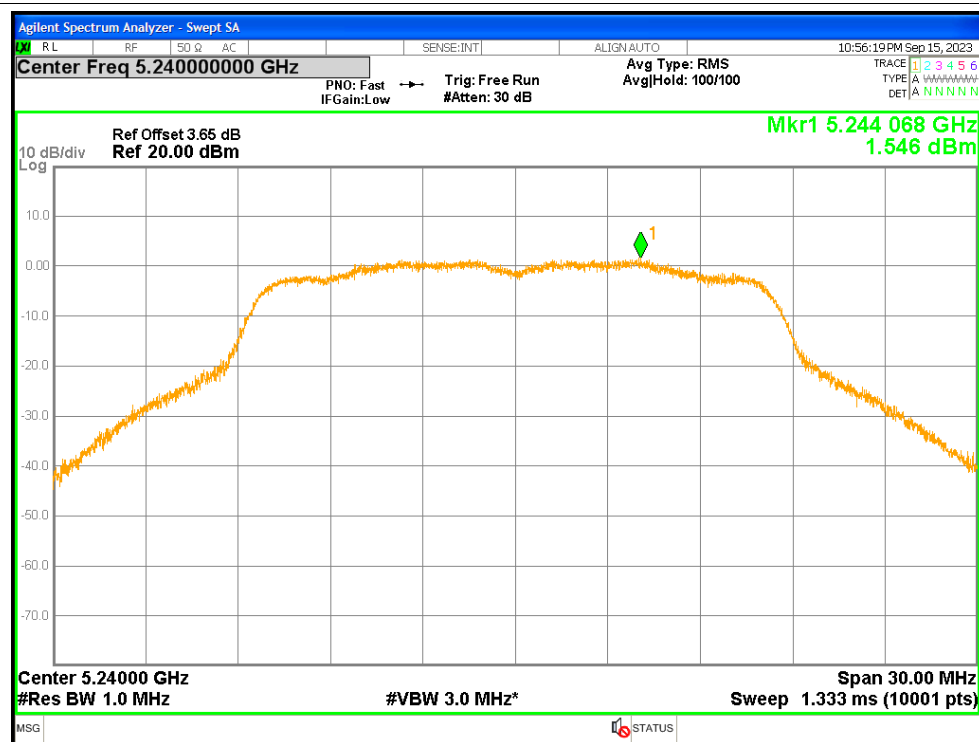
PSD NVNT n20 5200MHz Ant2



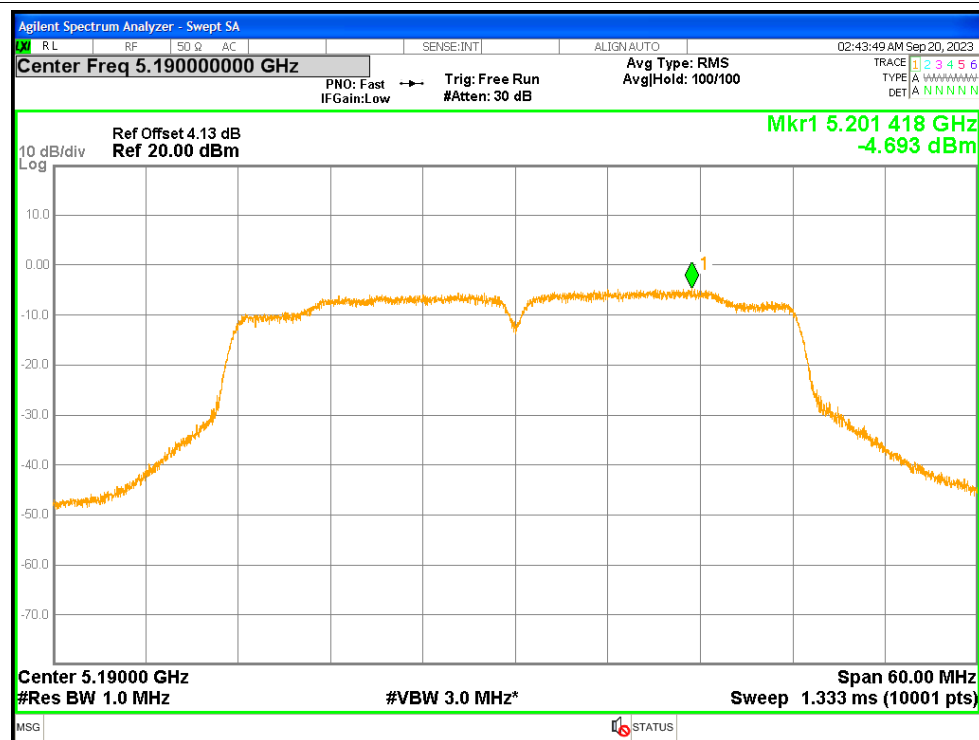
PSD NVNT n20 5240MHz Ant1



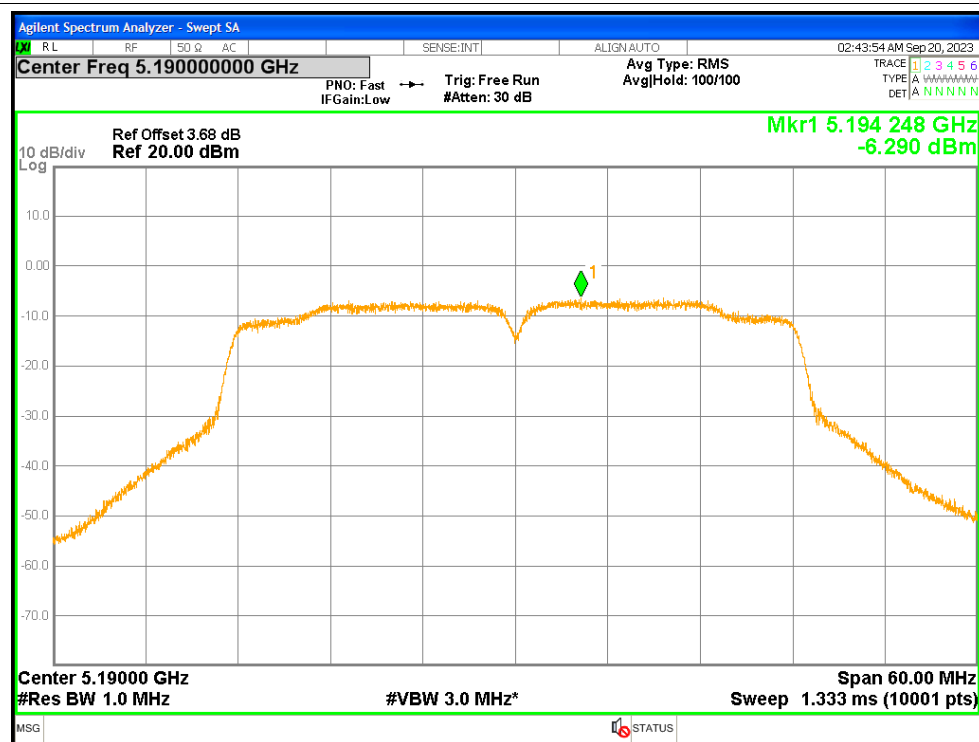
PSD NVNT n20 5240MHz Ant2



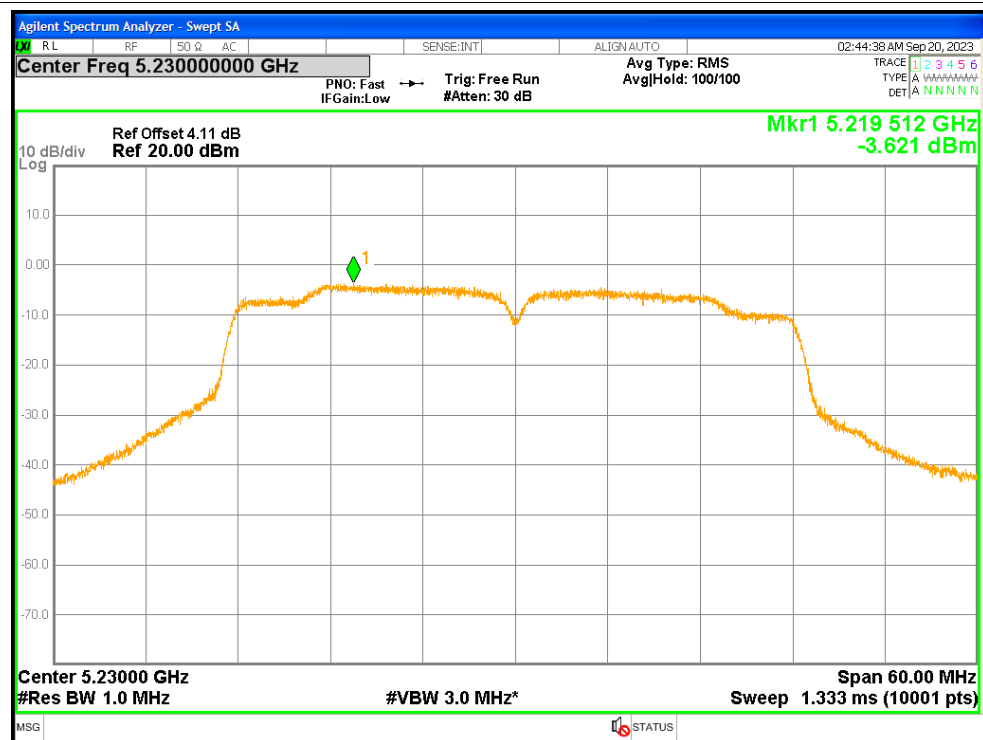
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2

