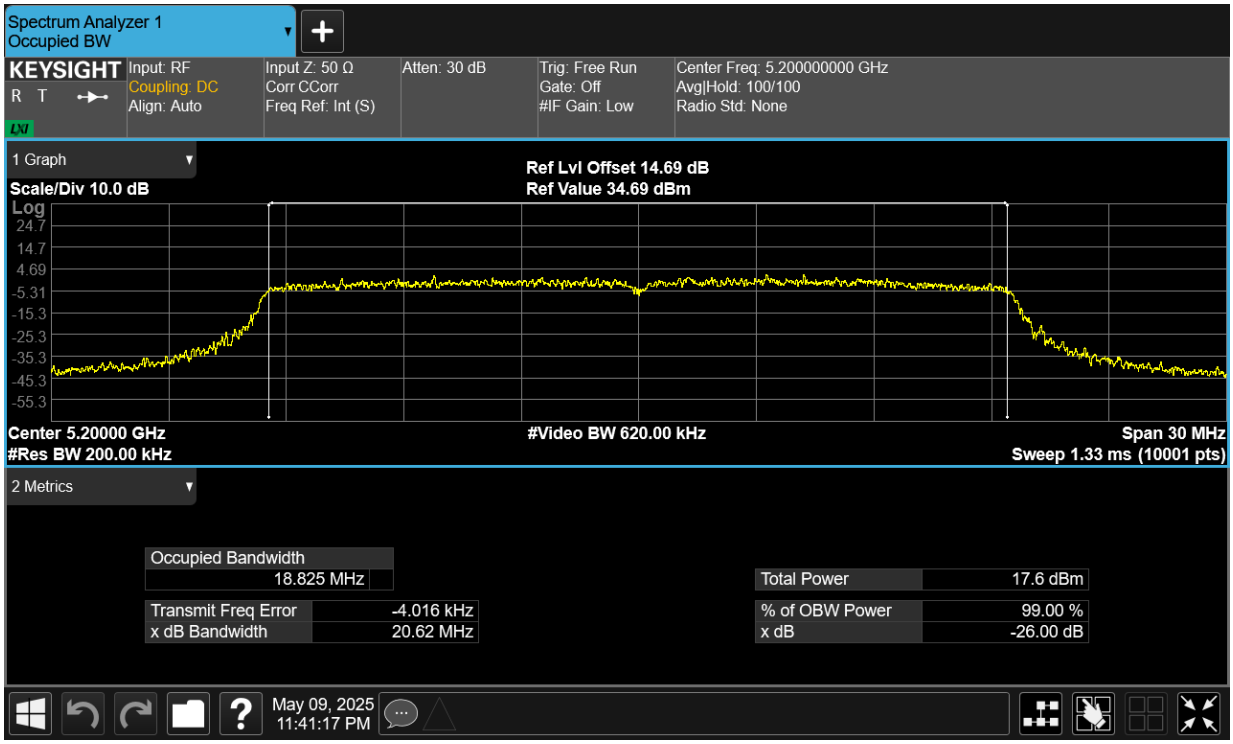
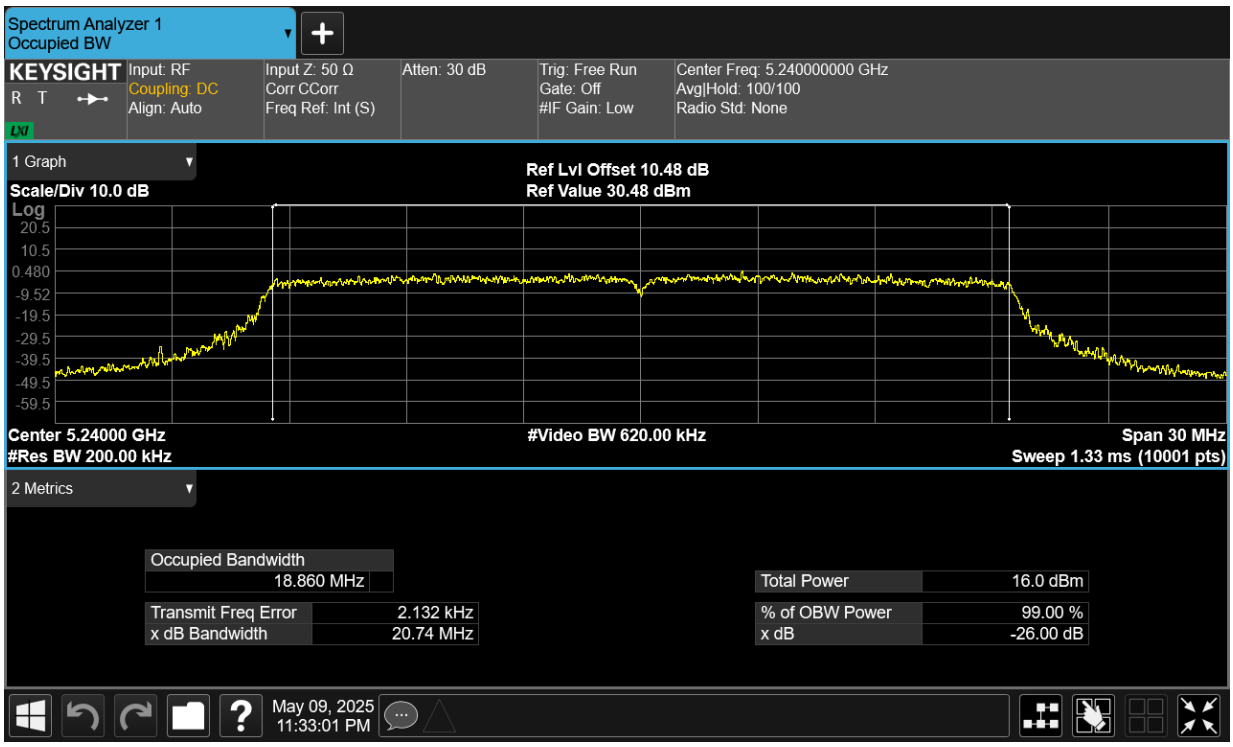
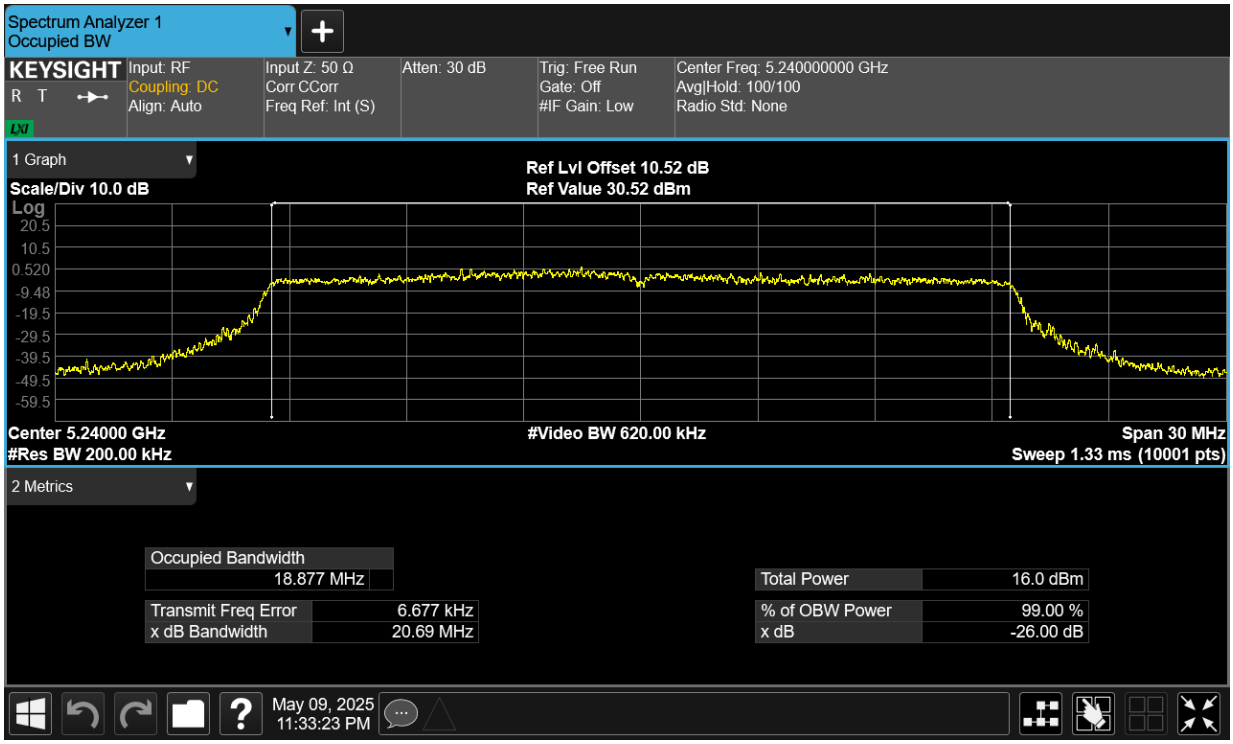


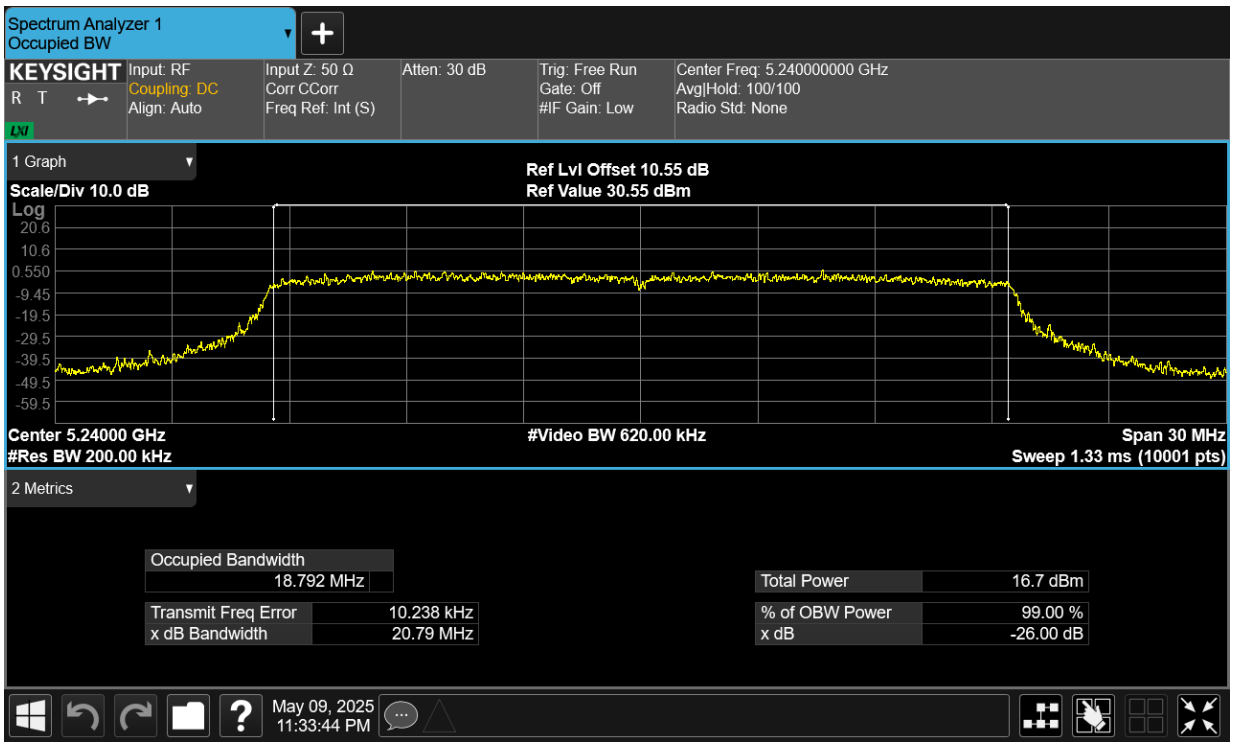
OBW NVNT ax20 5240MHz Ant1



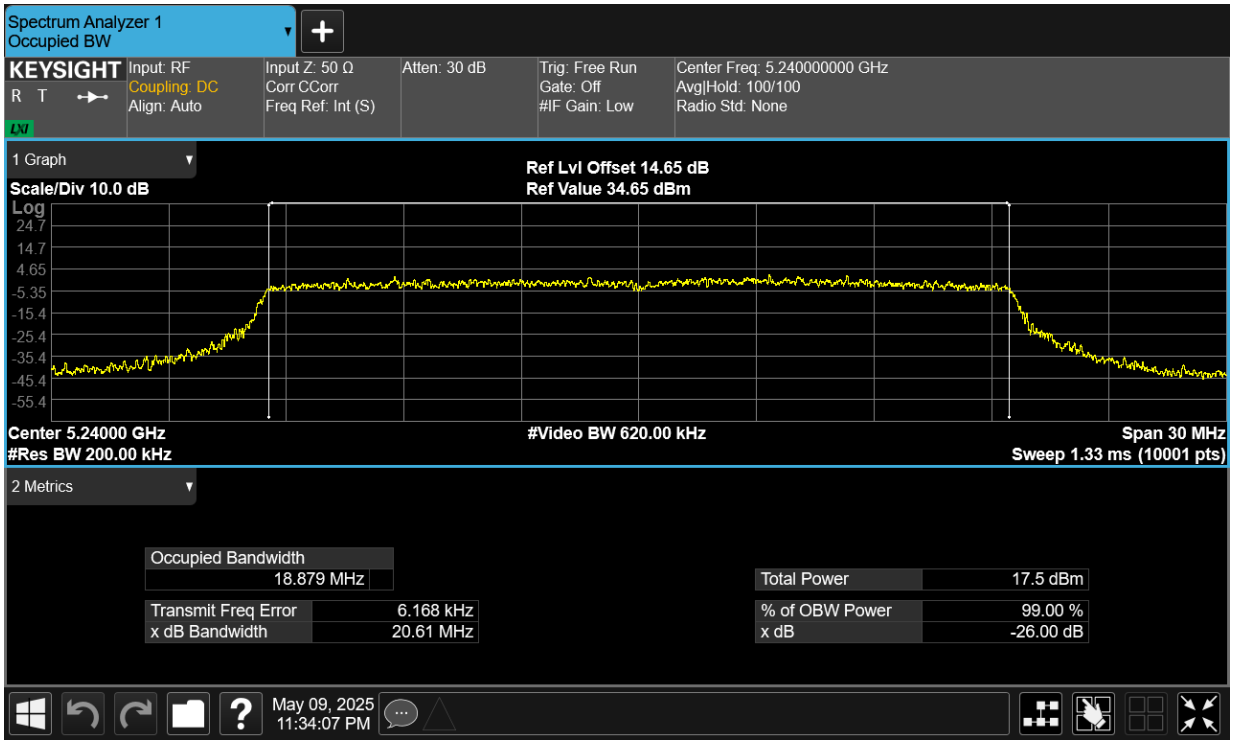
OBW NVNT ax20 5240MHz Ant2



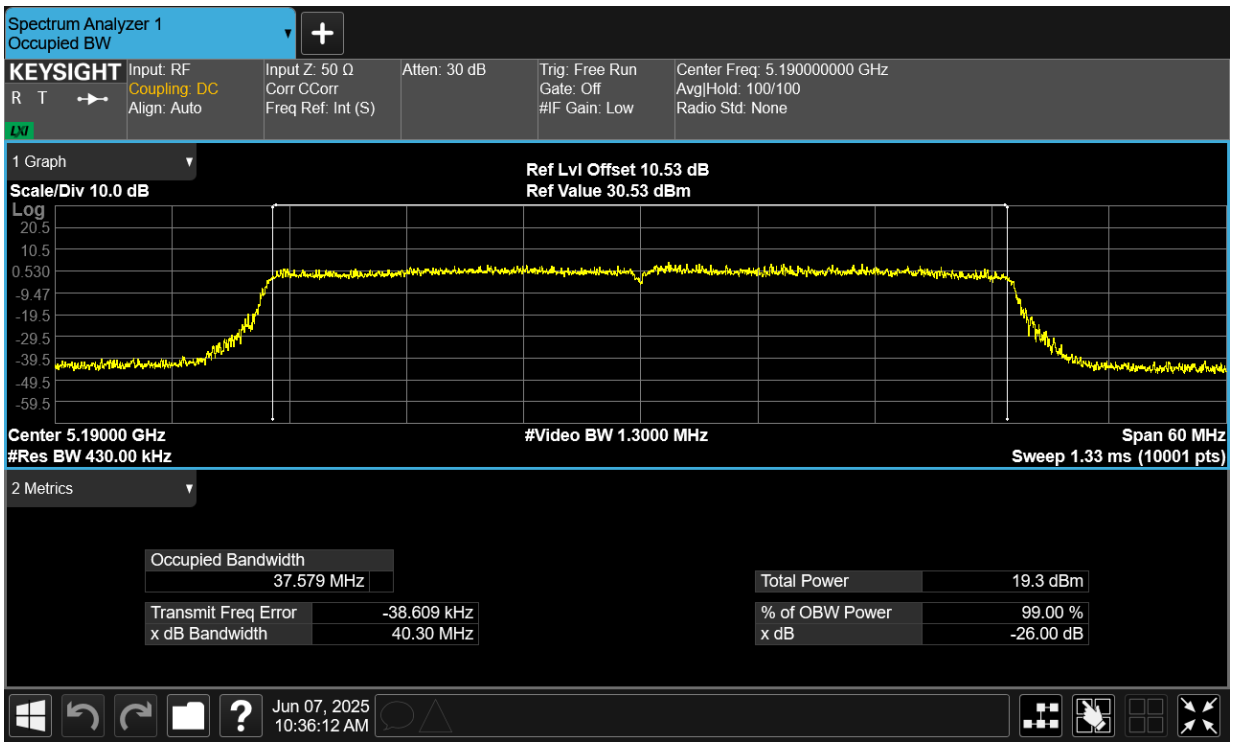
OBW NVNT ax20 5240MHz Ant3



OBW NVNT ax20 5240MHz Ant4



OBW NVNT ax40 5190MHz Ant1



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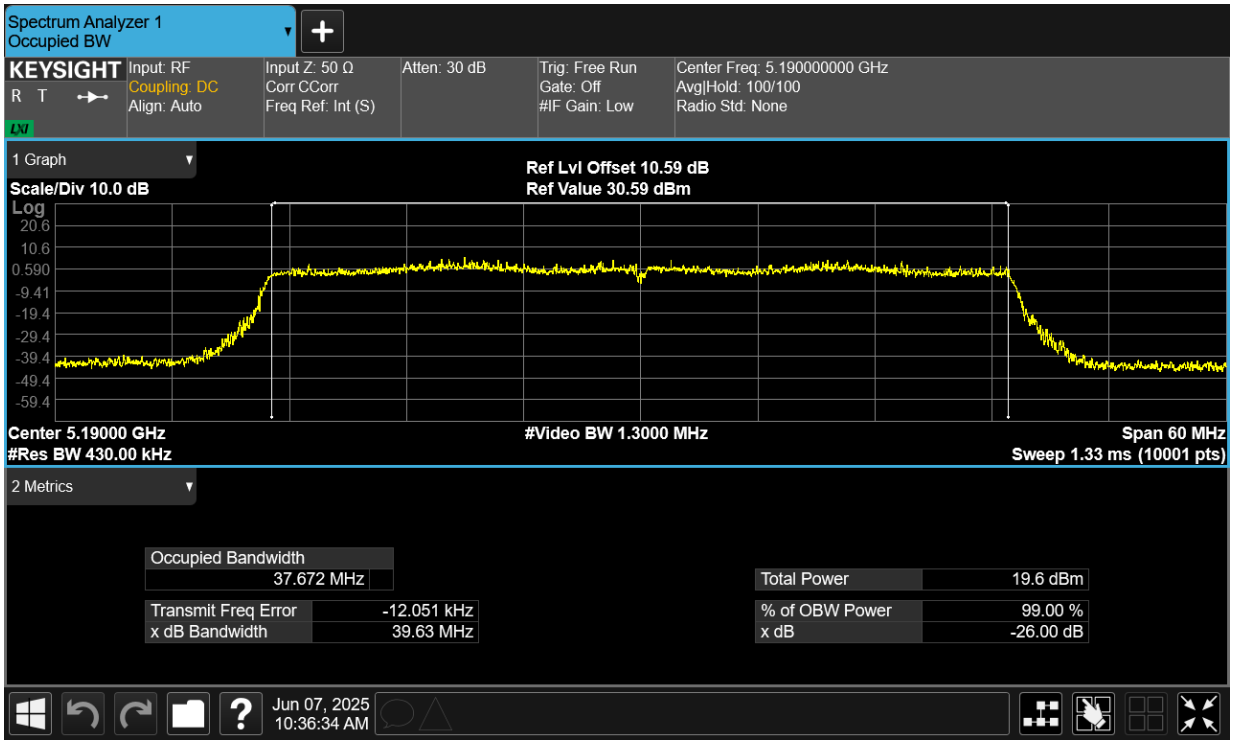

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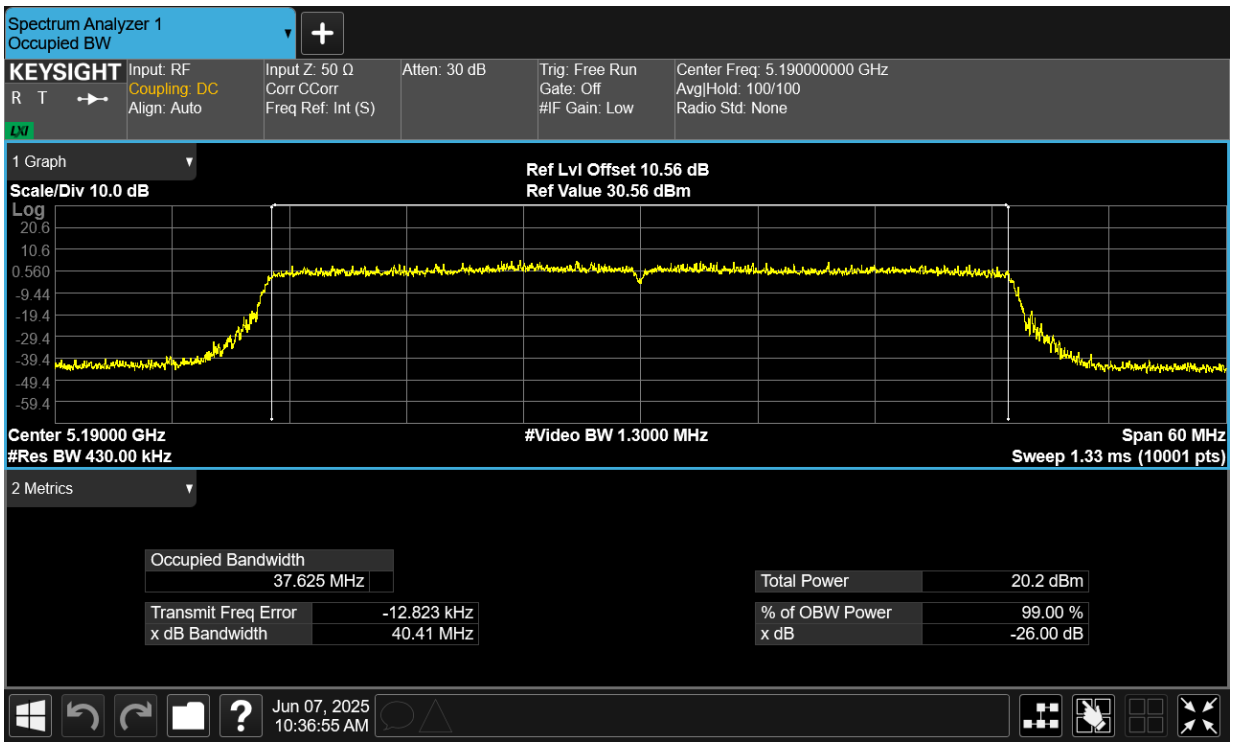
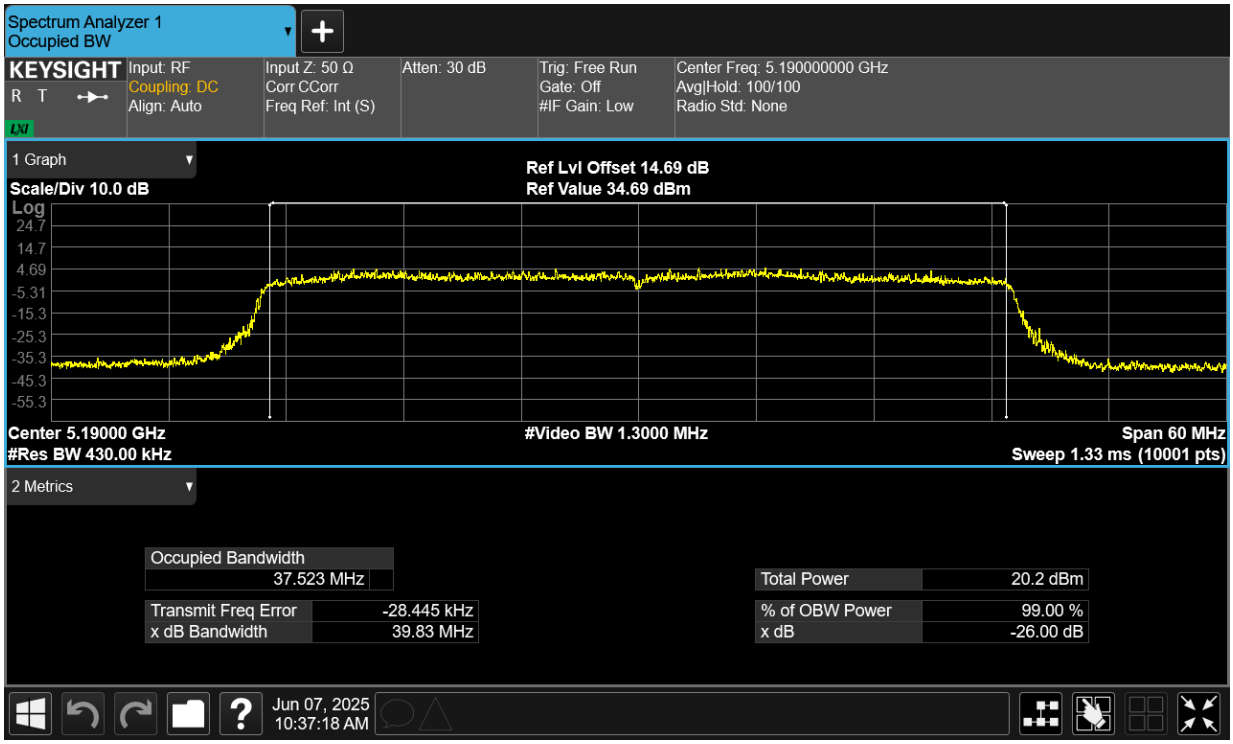
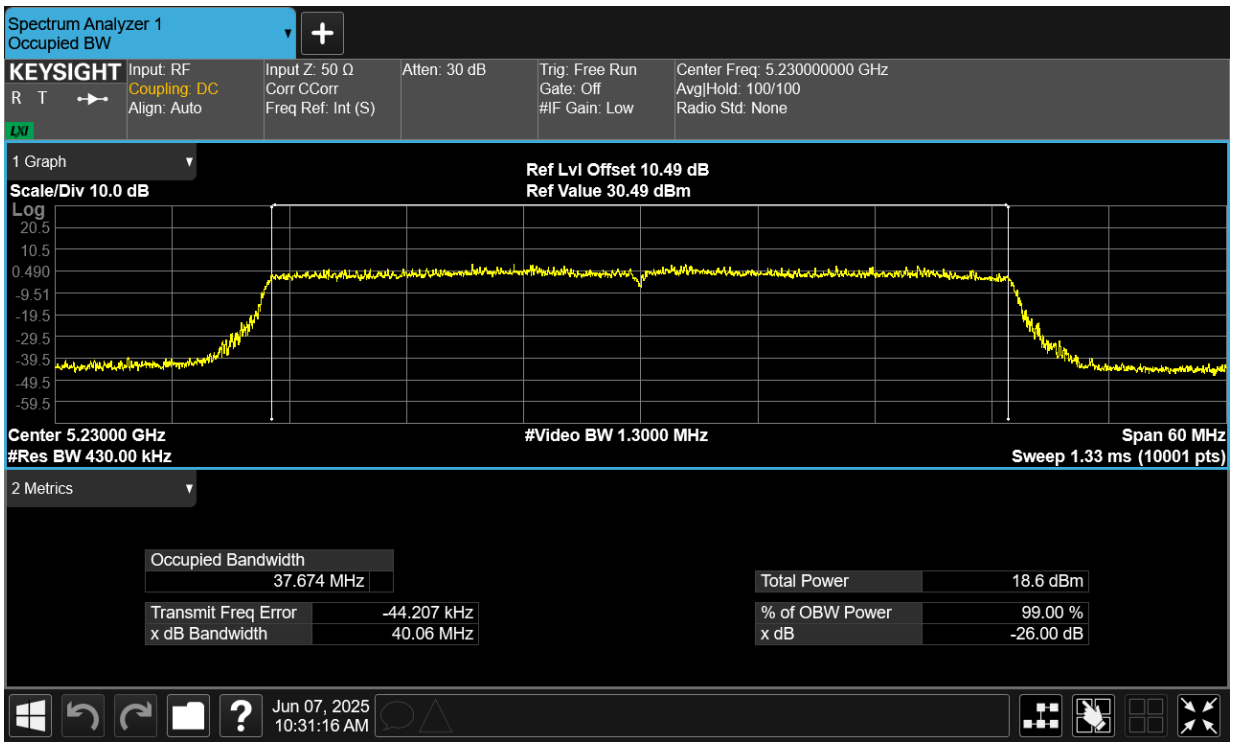


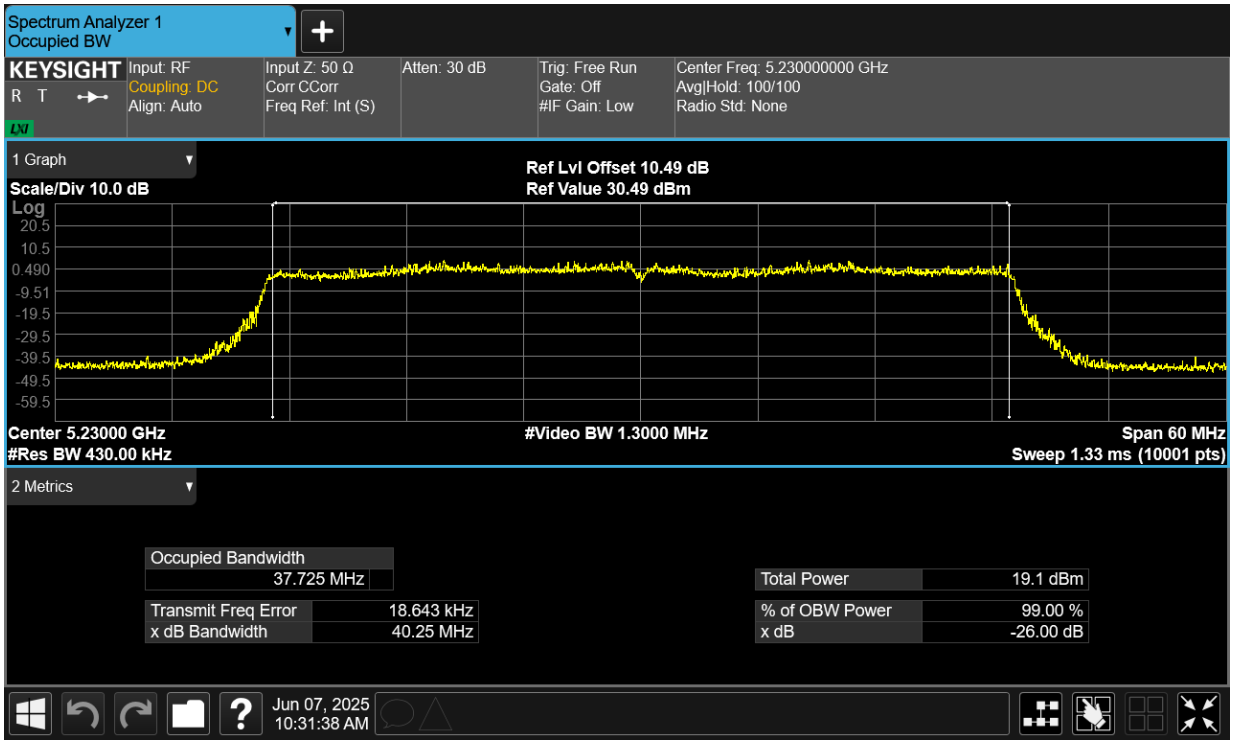
OBW NVNT ax40 5190MHz Ant4



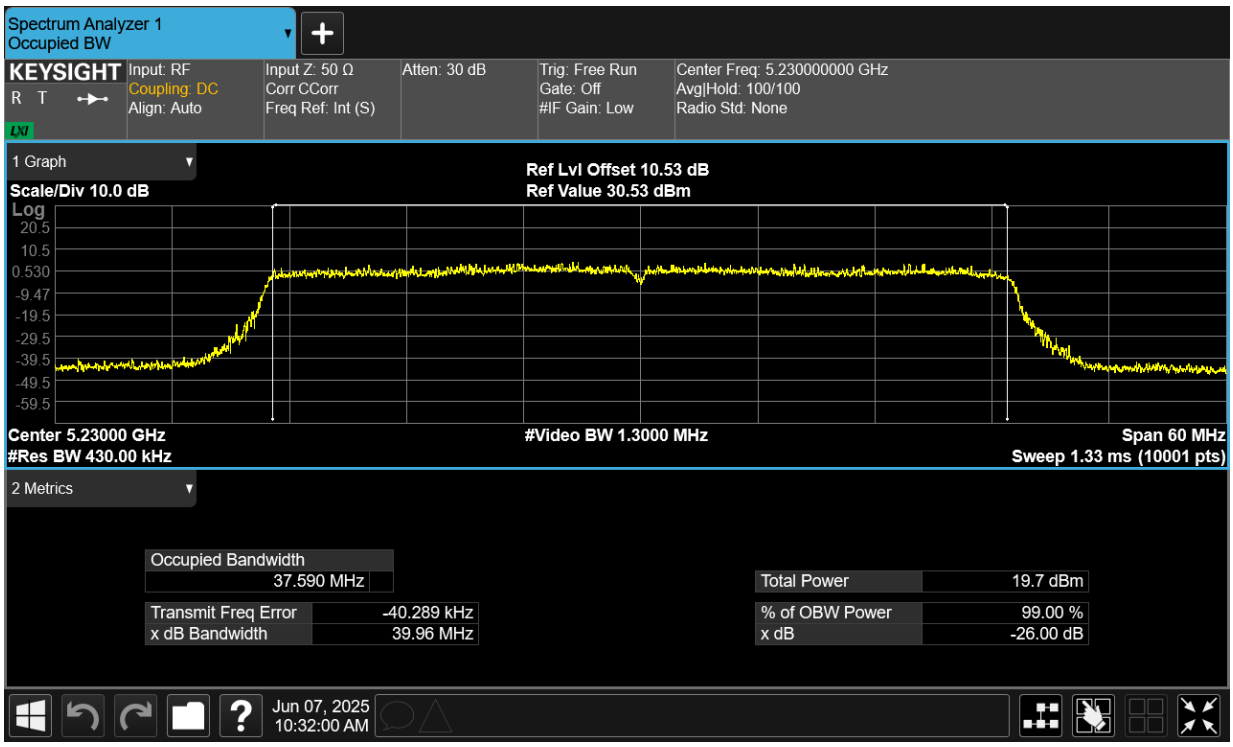
OBW NVNT ax40 5230MHz Ant1



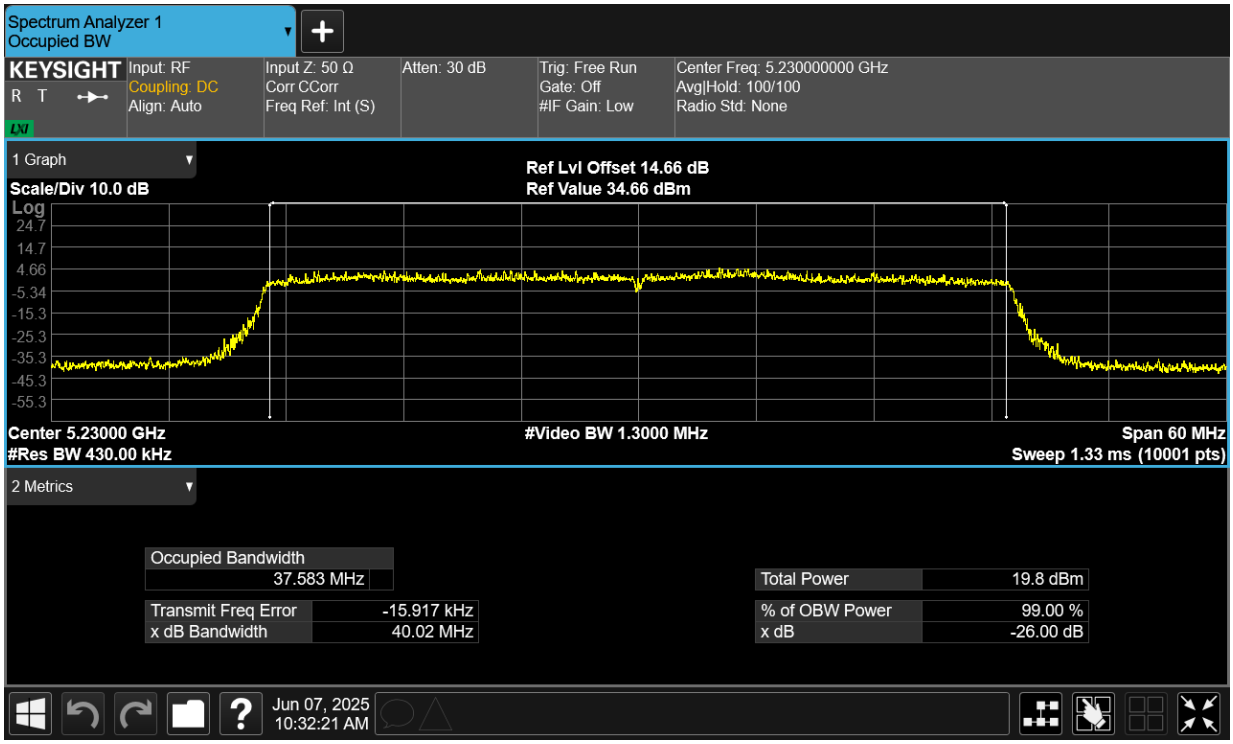
OBW NVNT ax40 5230MHz Ant2



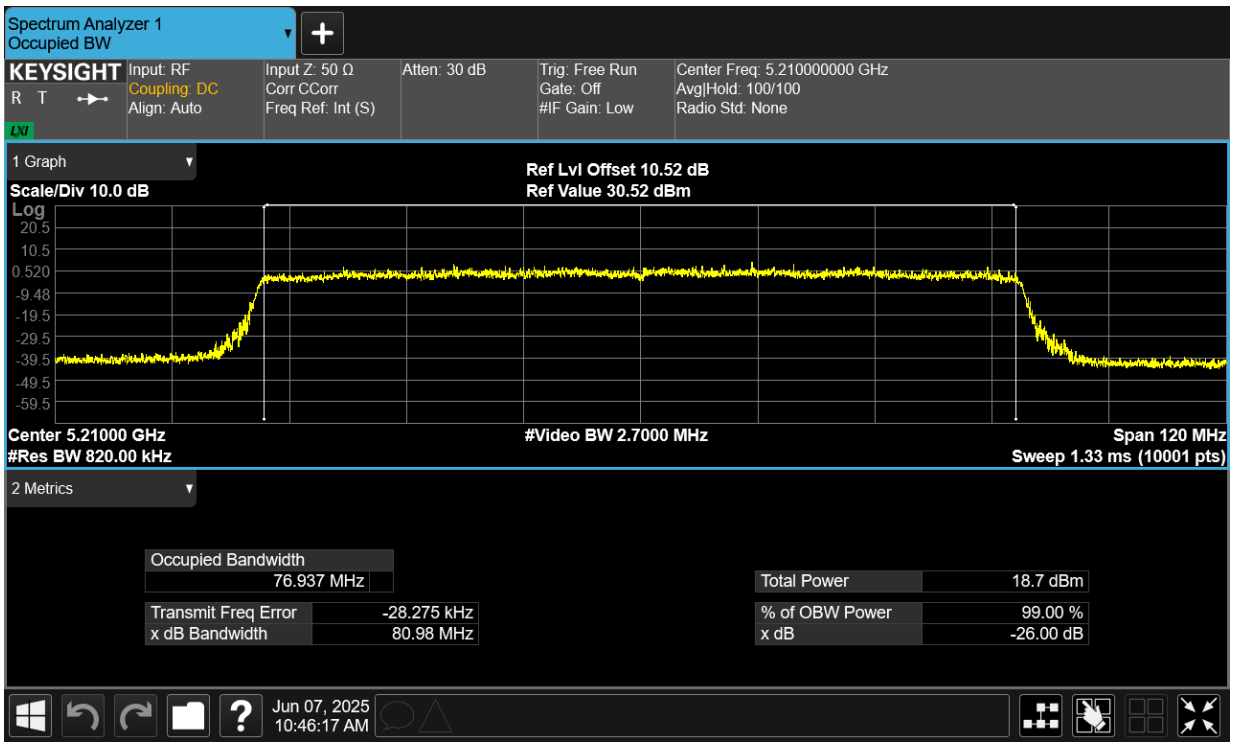
OBW NVNT ax40 5230MHz Ant3



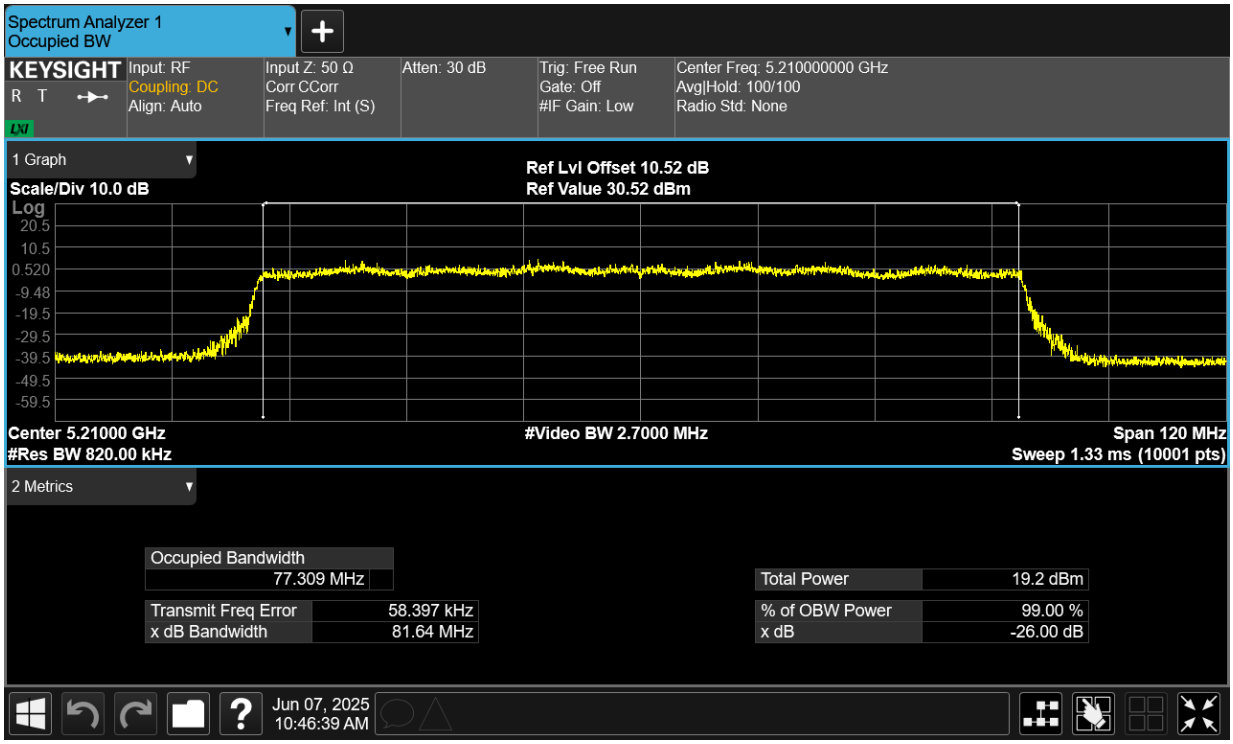
OBW NVNT ax40 5230MHz Ant4



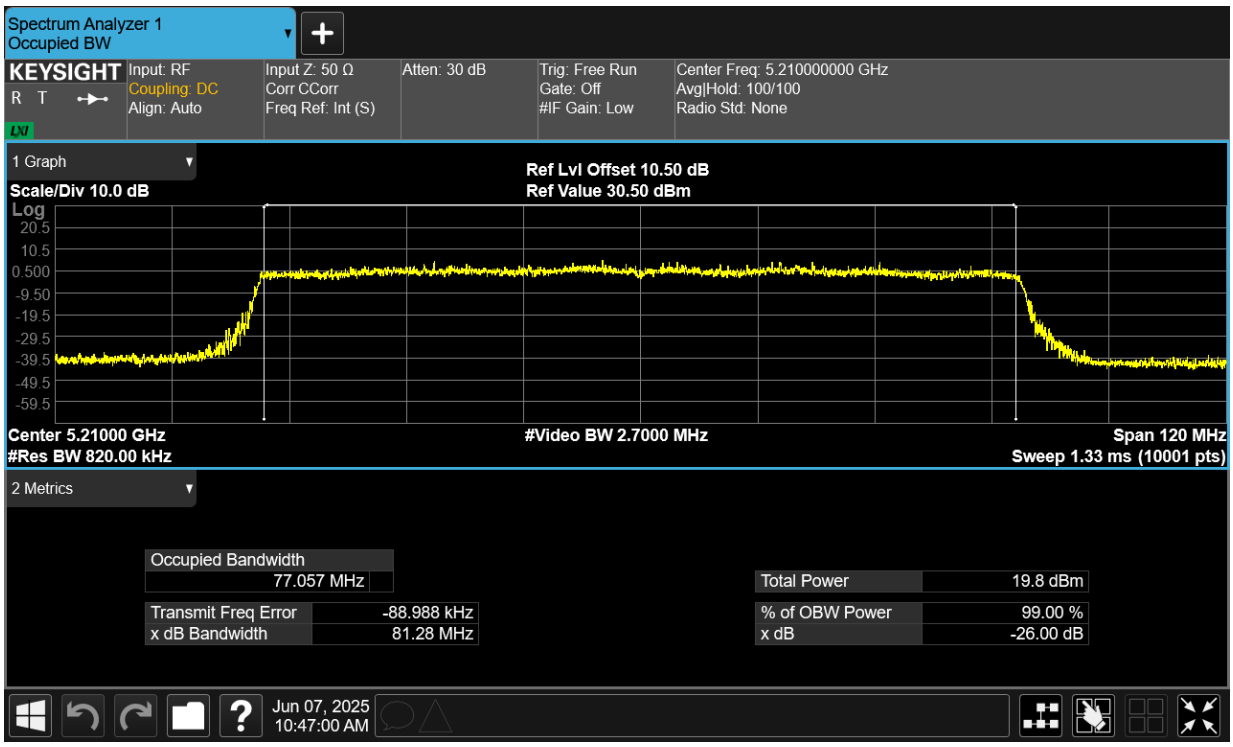
OBW NVNT ax80 5210MHz Ant1



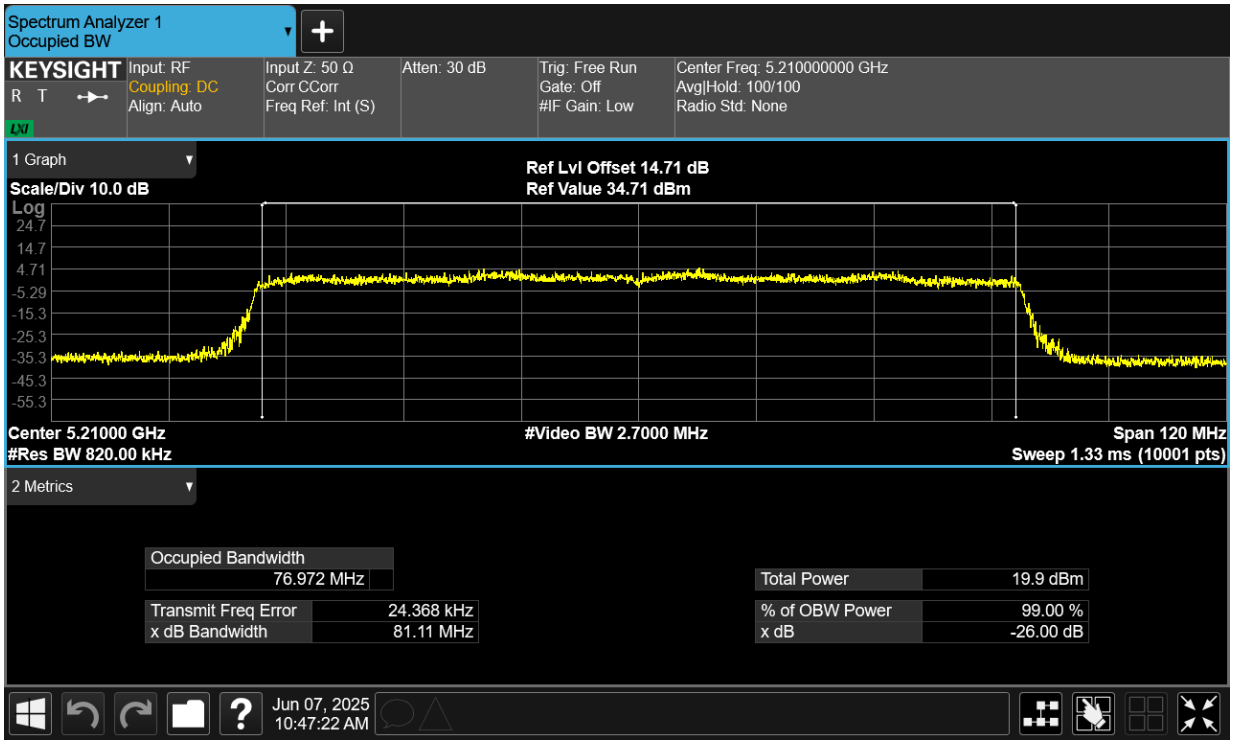
OBW NVNT ax80 5210MHz Ant2



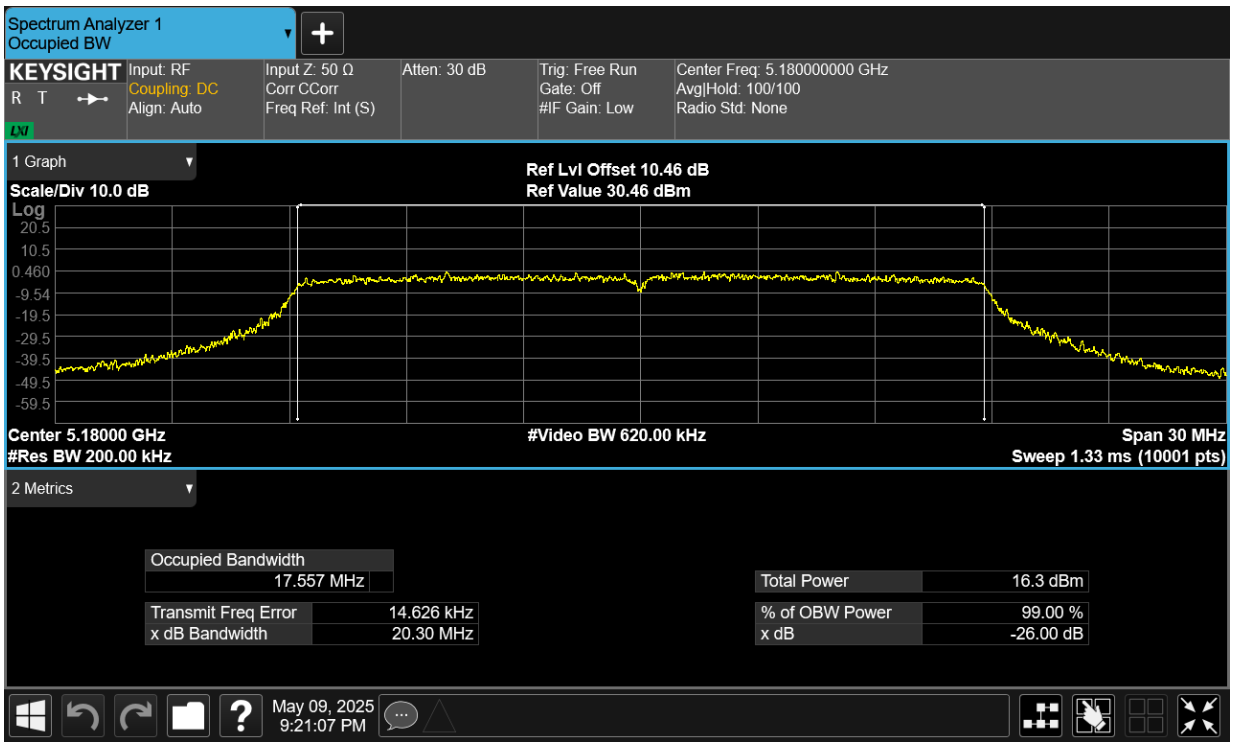
OBW NVNT ax80 5210MHz Ant3



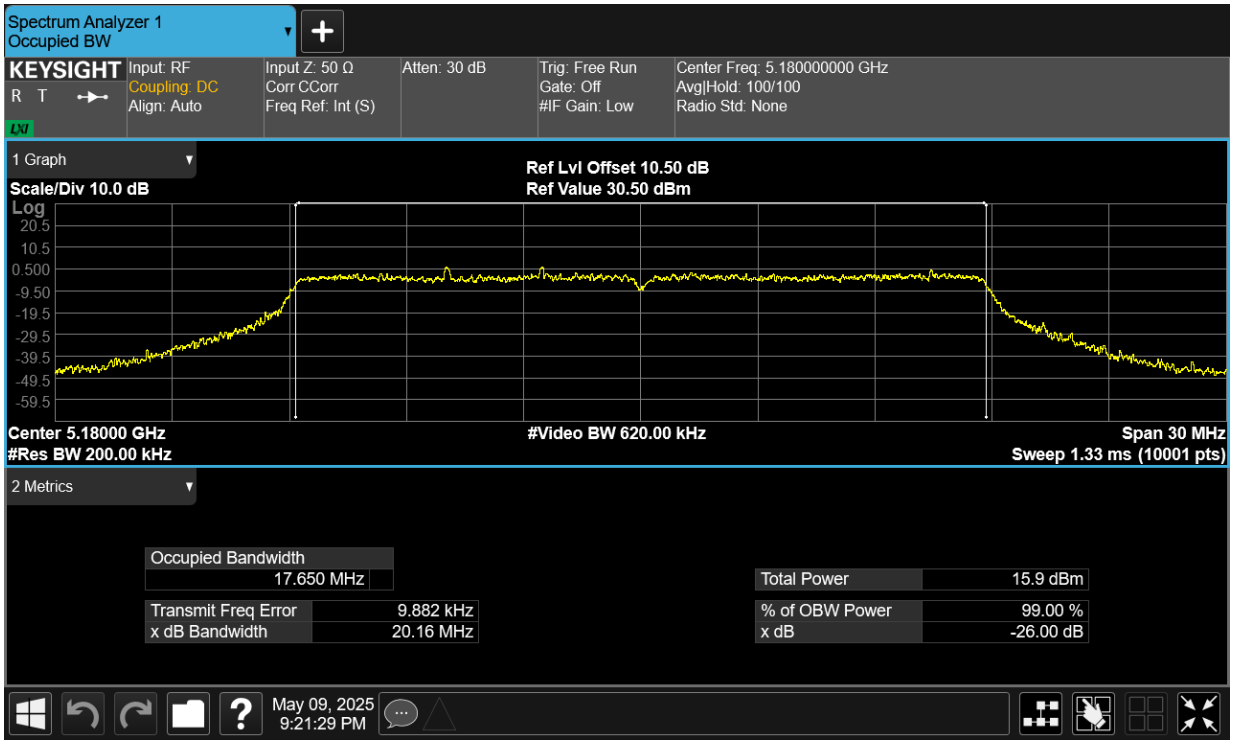
OBW NVNT ax80 5210MHz Ant4



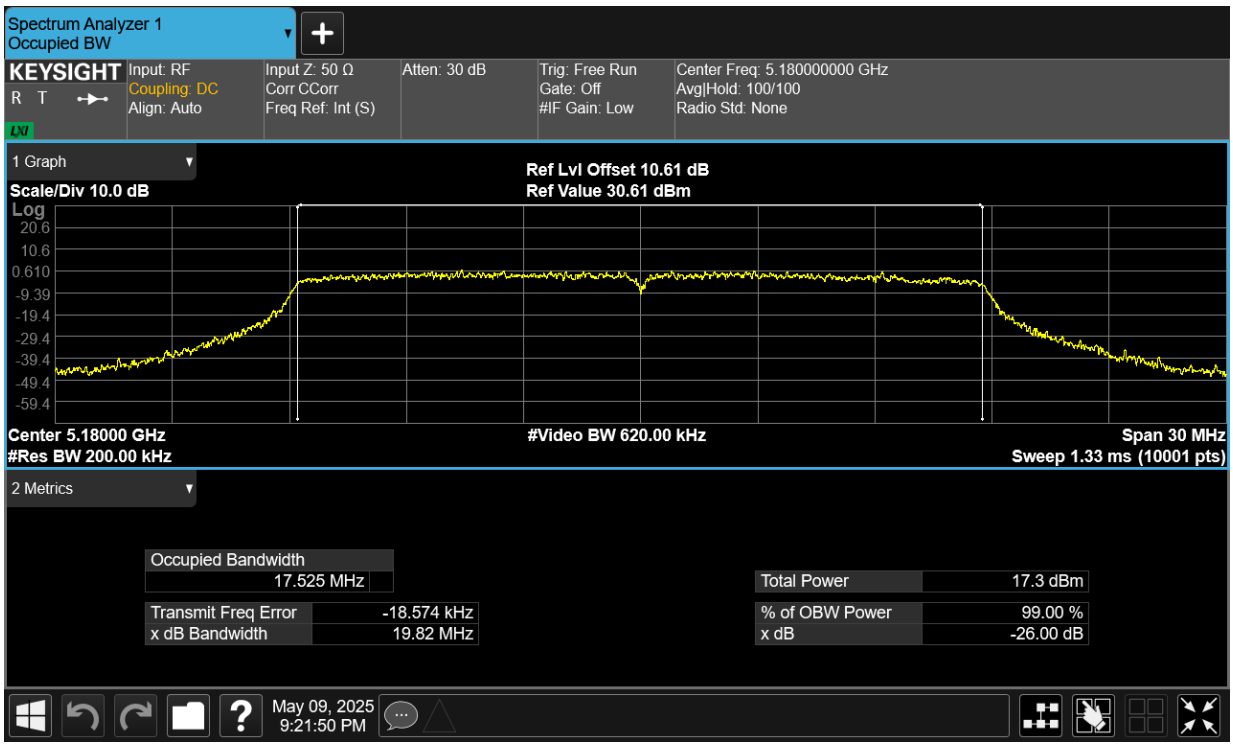
OBW NVNT n20 5180MHz Ant1



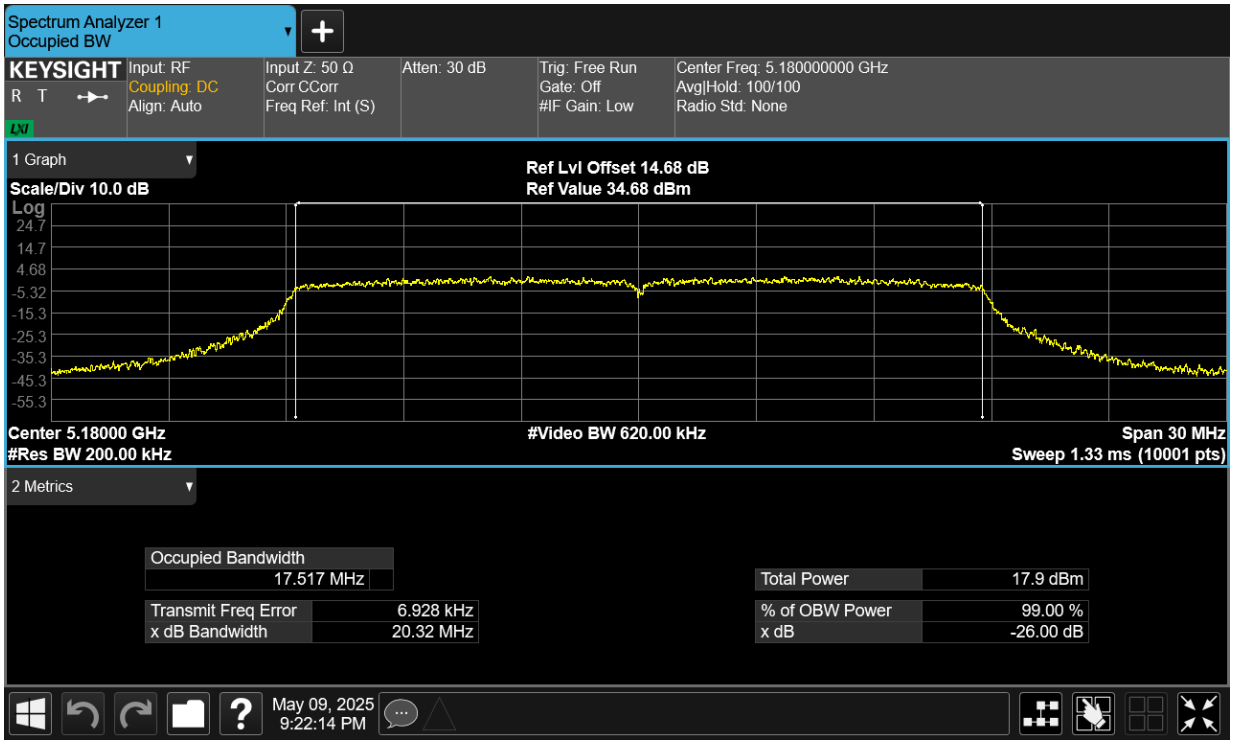
OBW NVNT n20 5180MHz Ant2



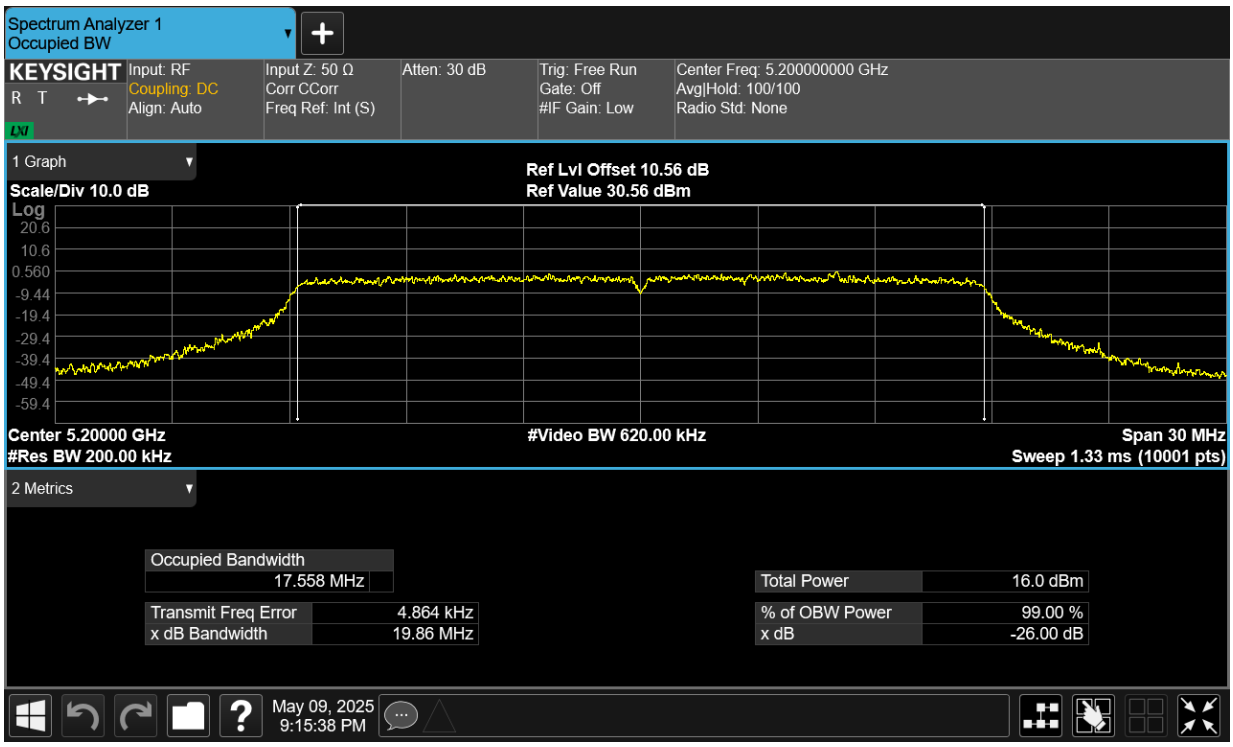
OBW NVNT n20 5180MHz Ant3



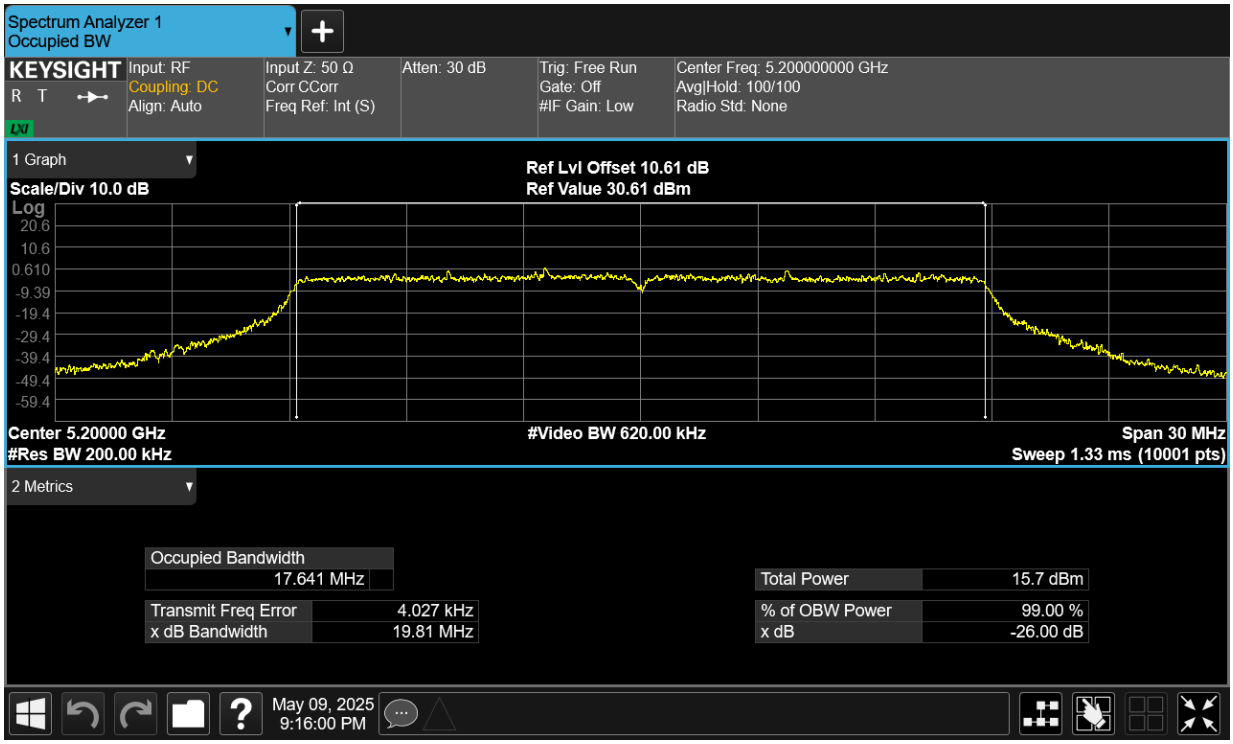
OBW NVNT n20 5180MHz Ant4



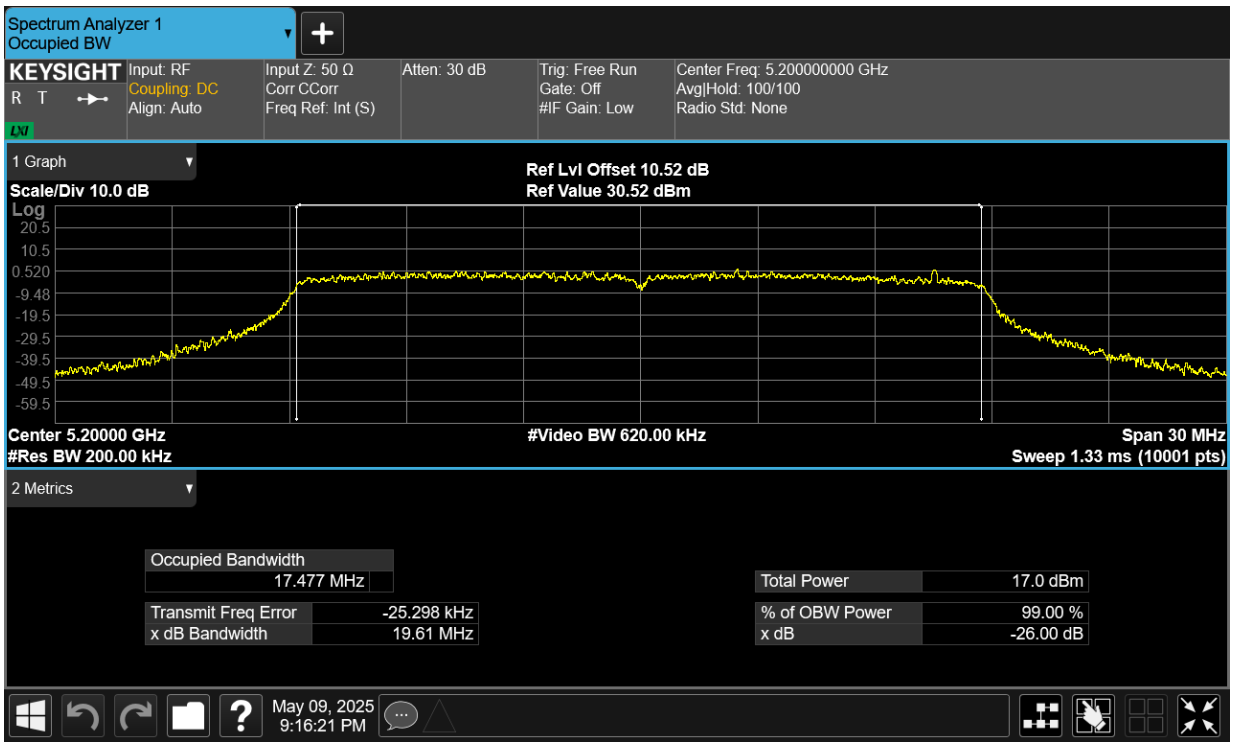
OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5200MHz Ant2



OBW NVNT n20 5200MHz Ant3



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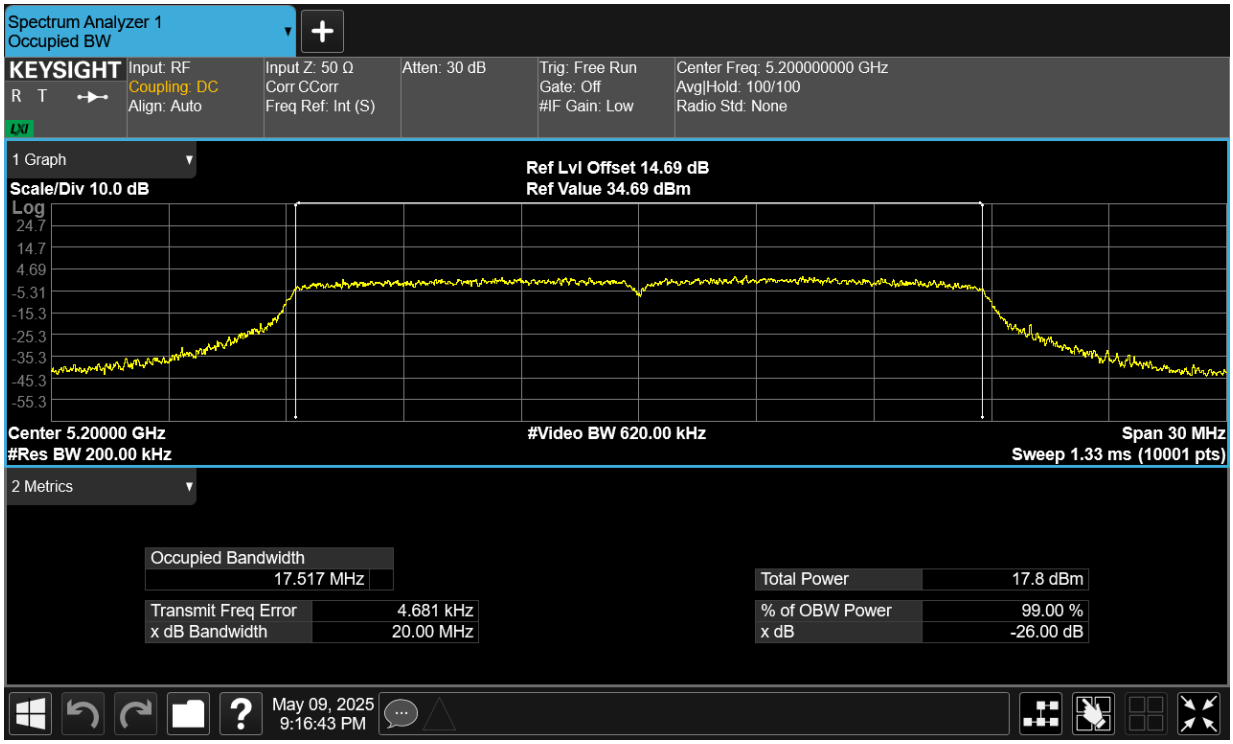

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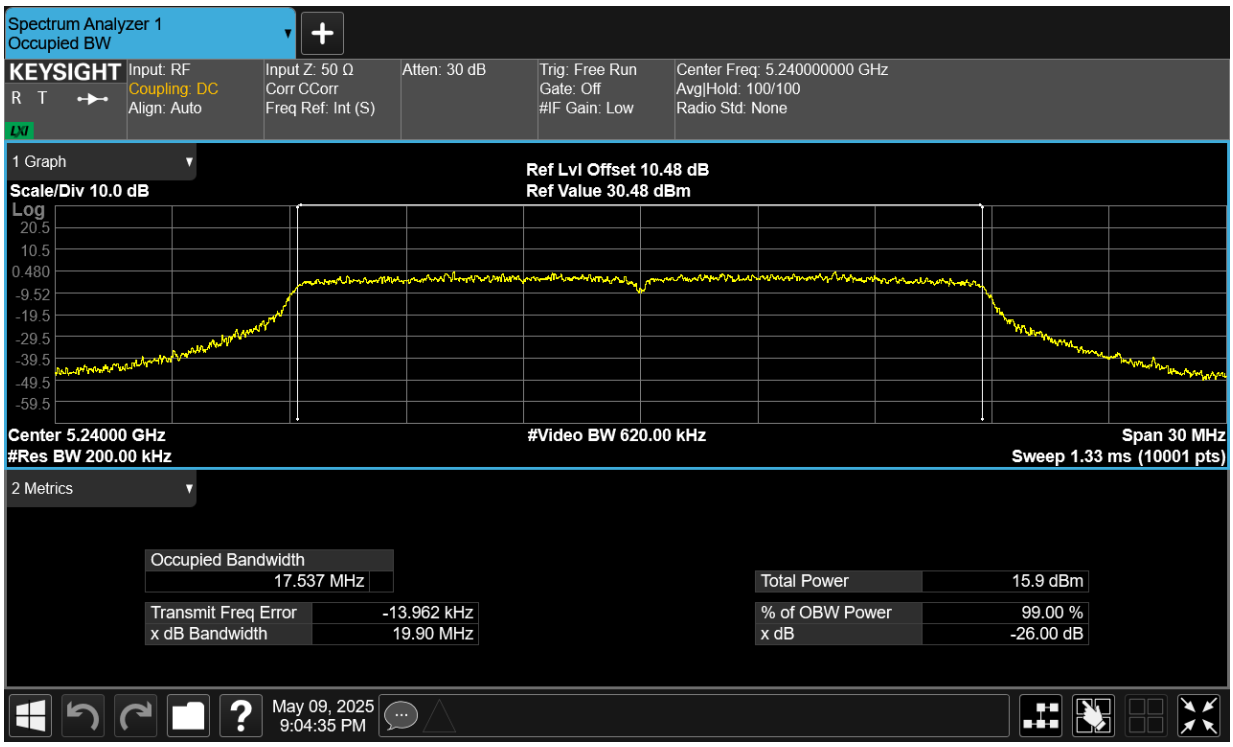
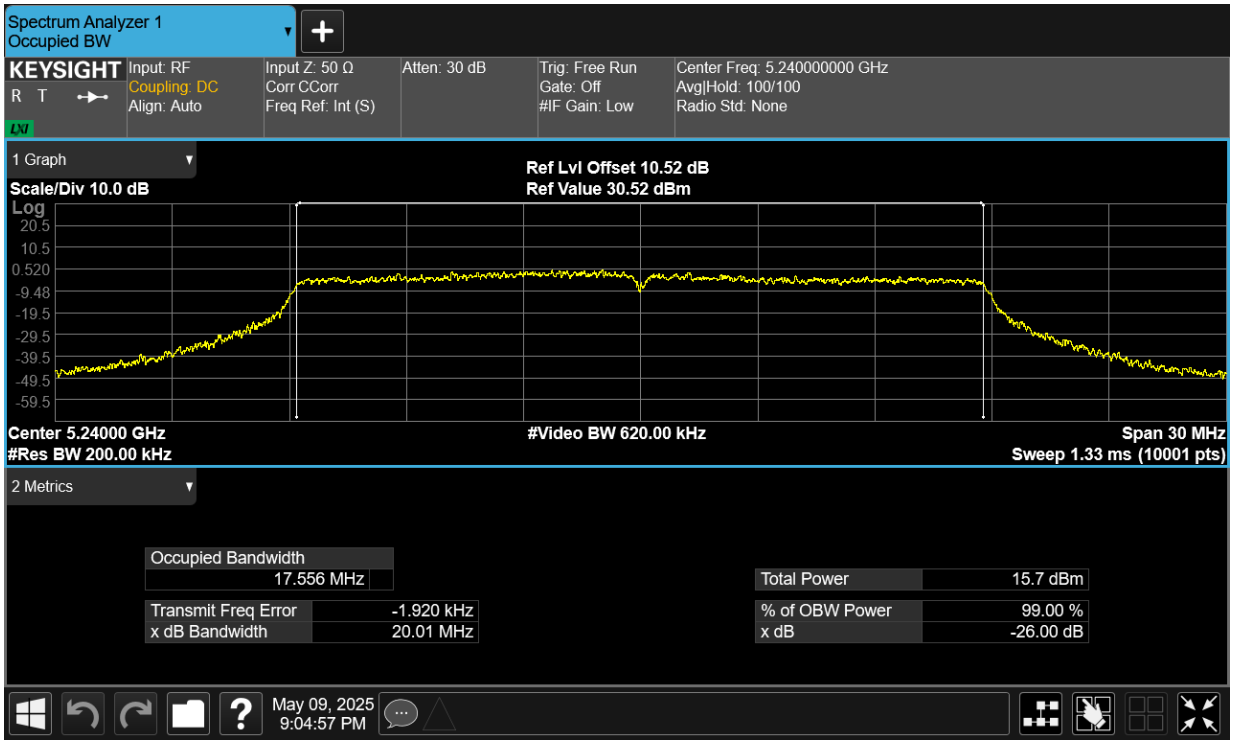


OBW NVNT n20 5240MHz Ant2



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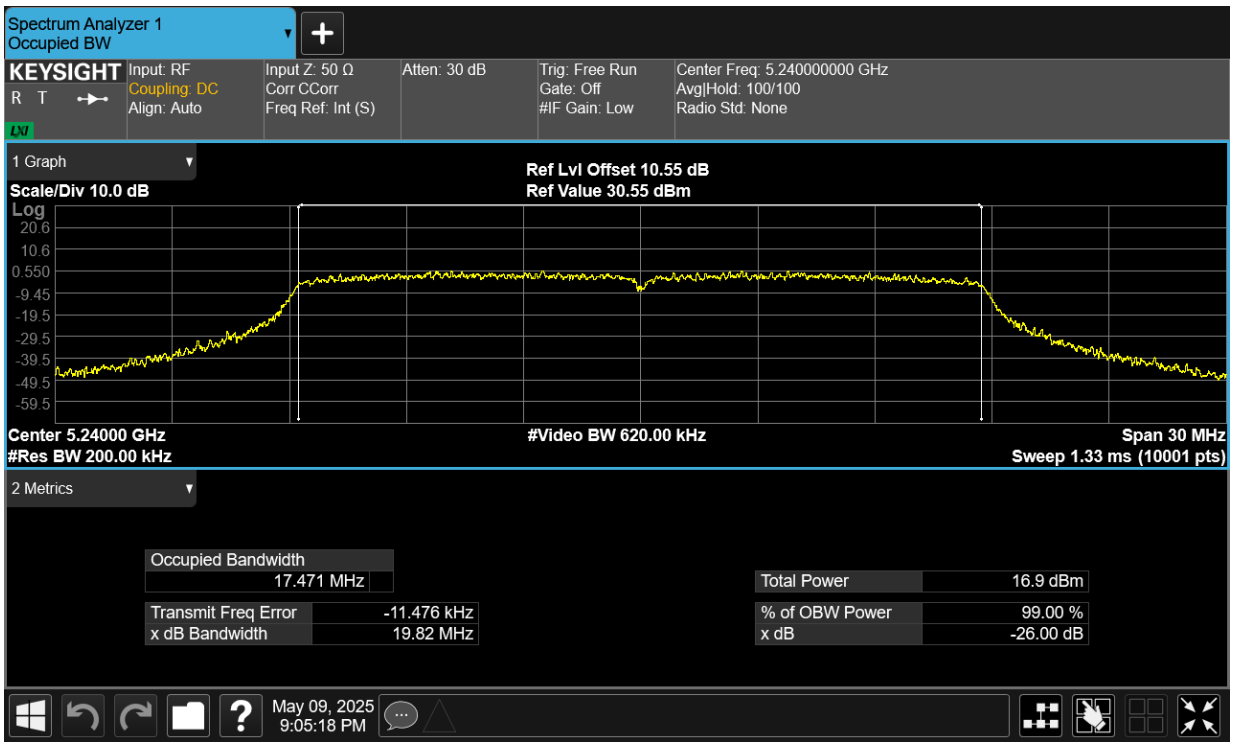
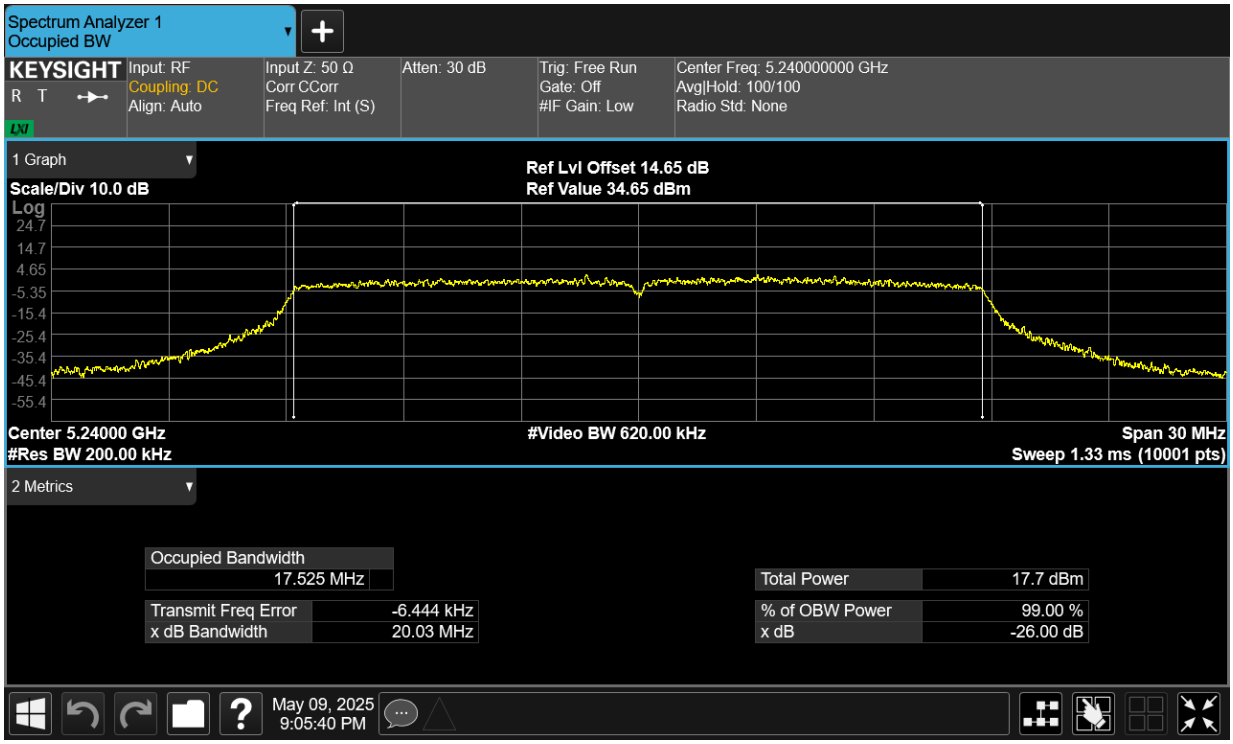
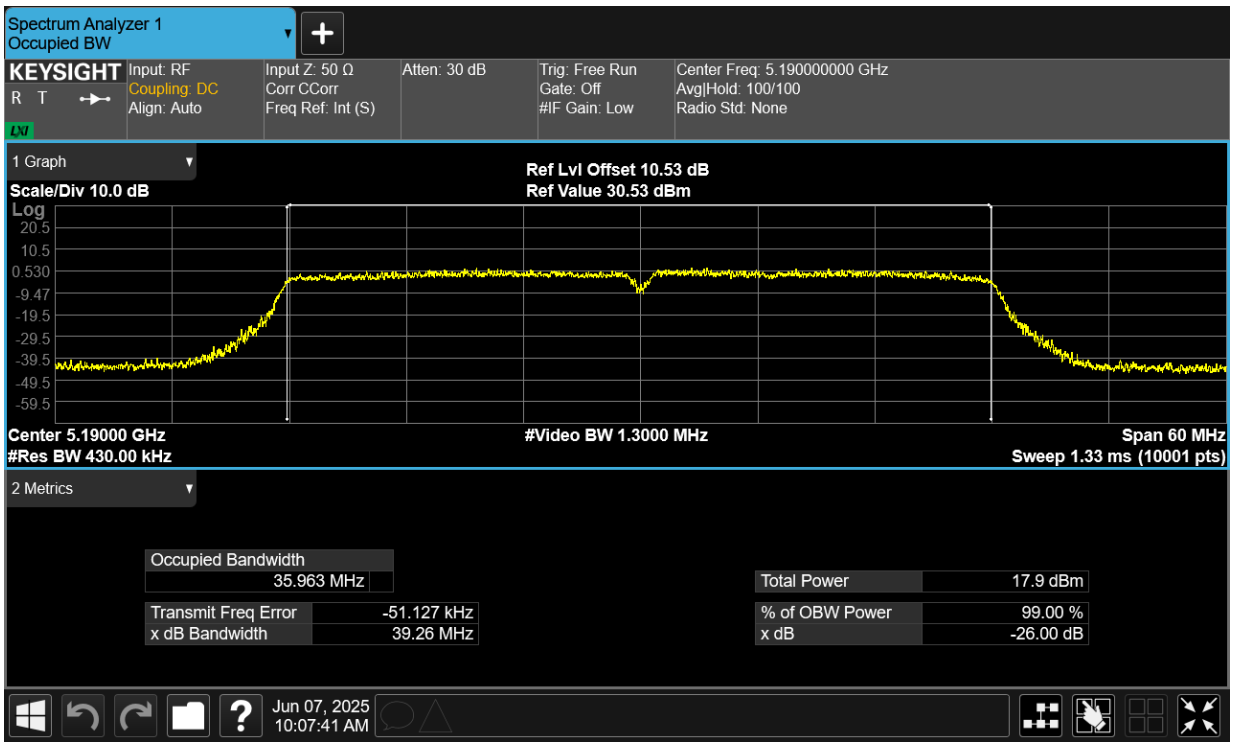


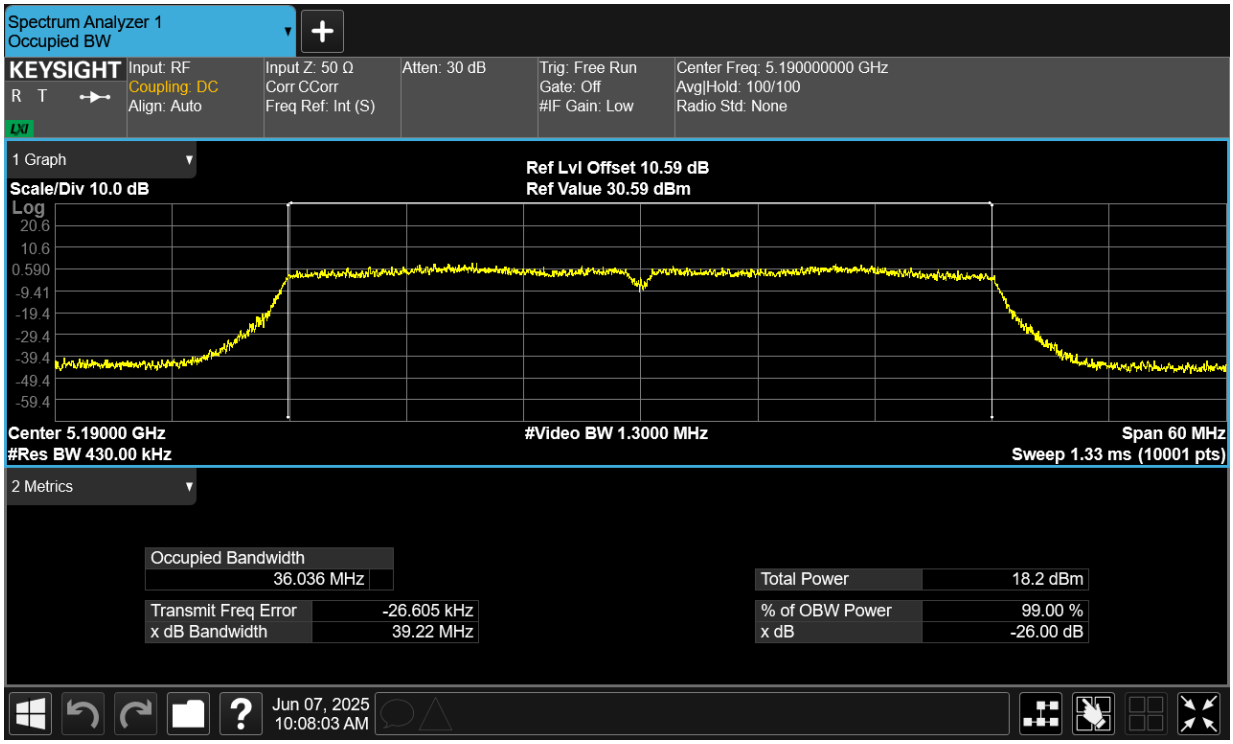
OBW NVNT n20 5240MHz Ant4



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5190MHz Ant2



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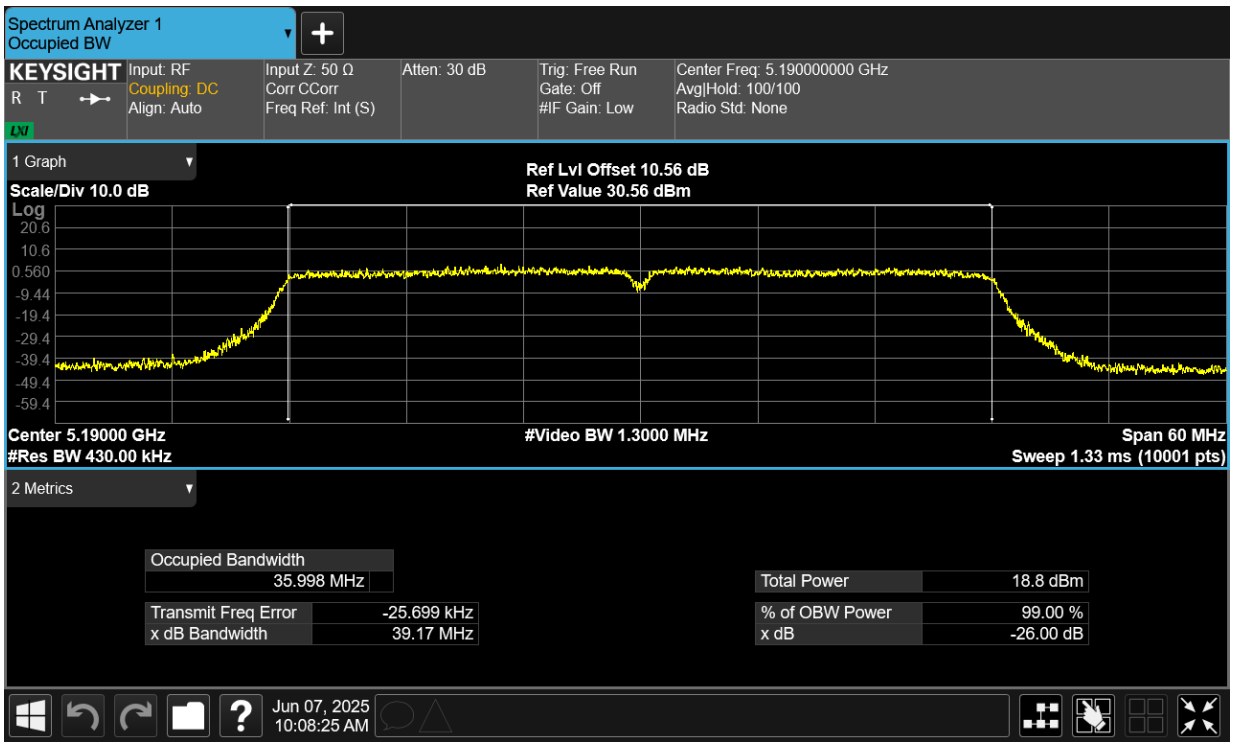
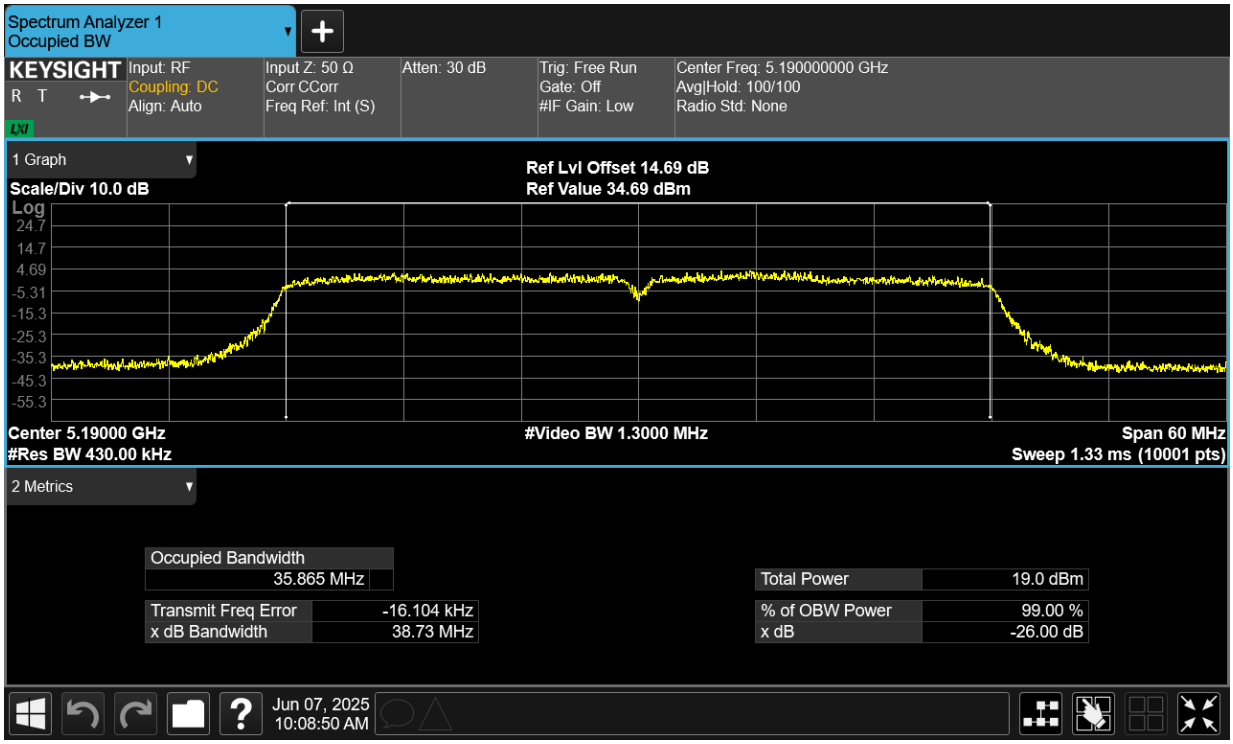
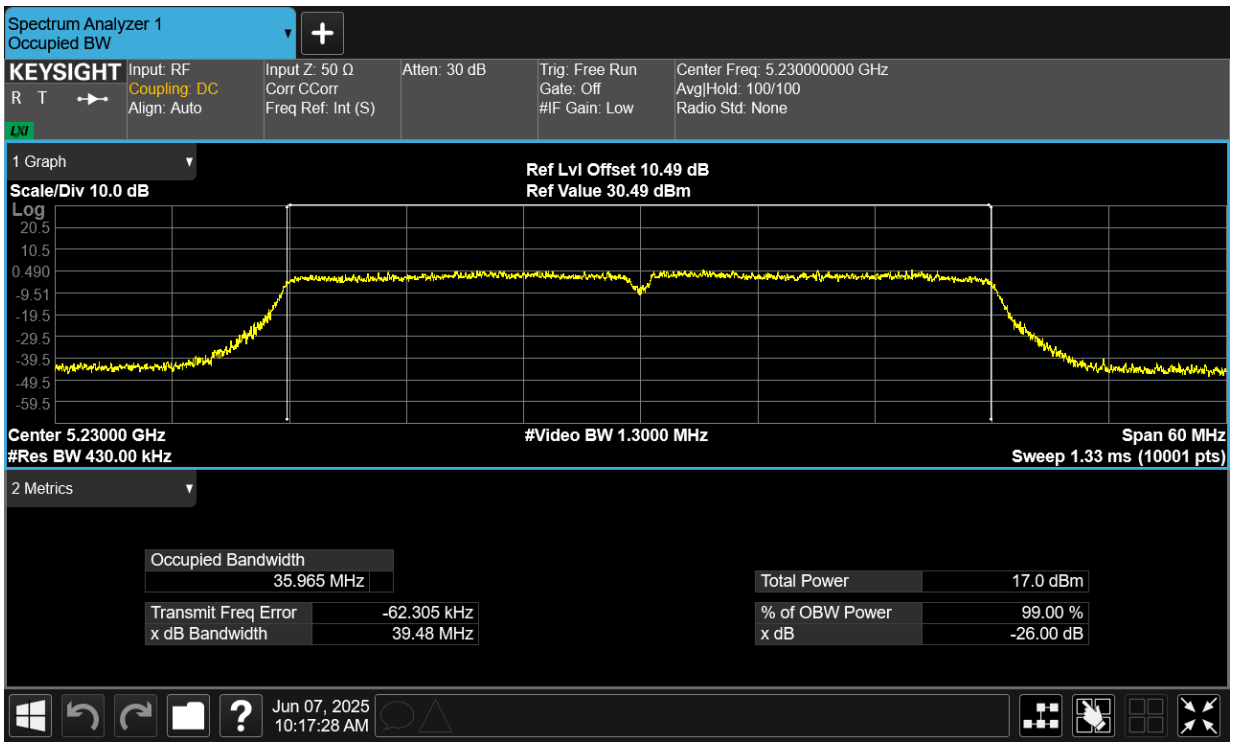


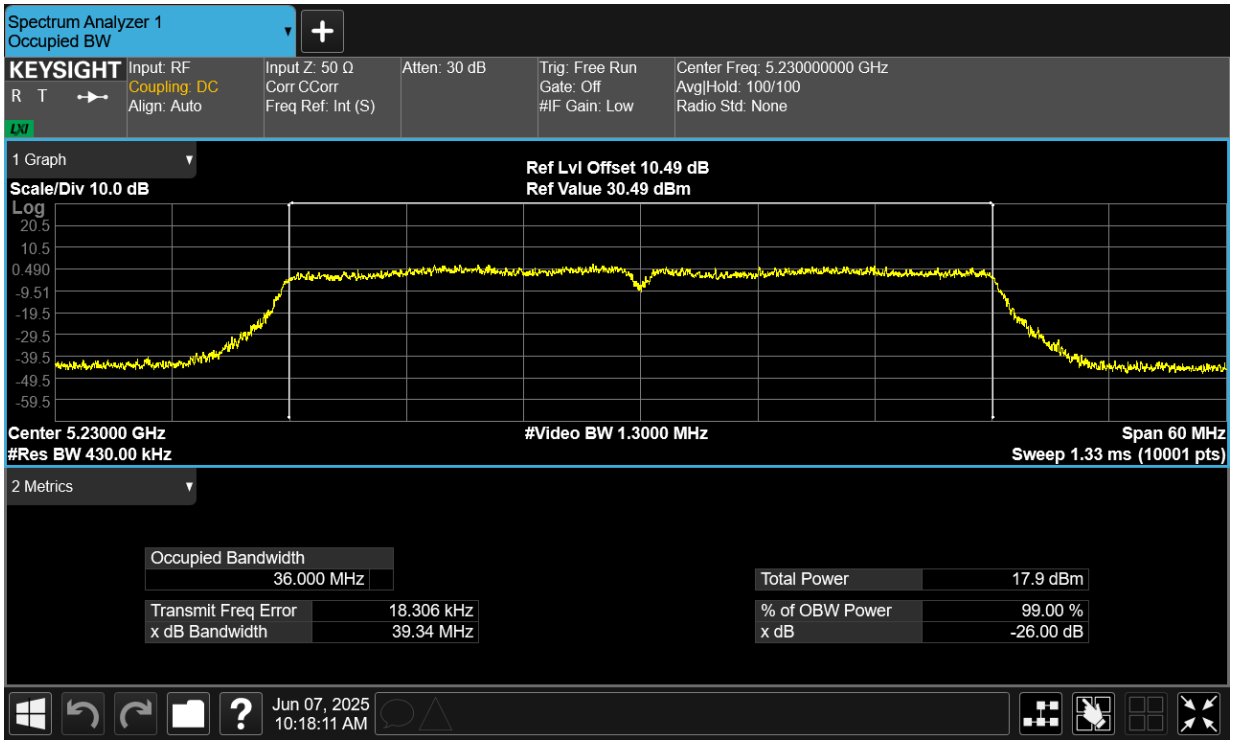
OBW NVNT n40 5190MHz Ant4



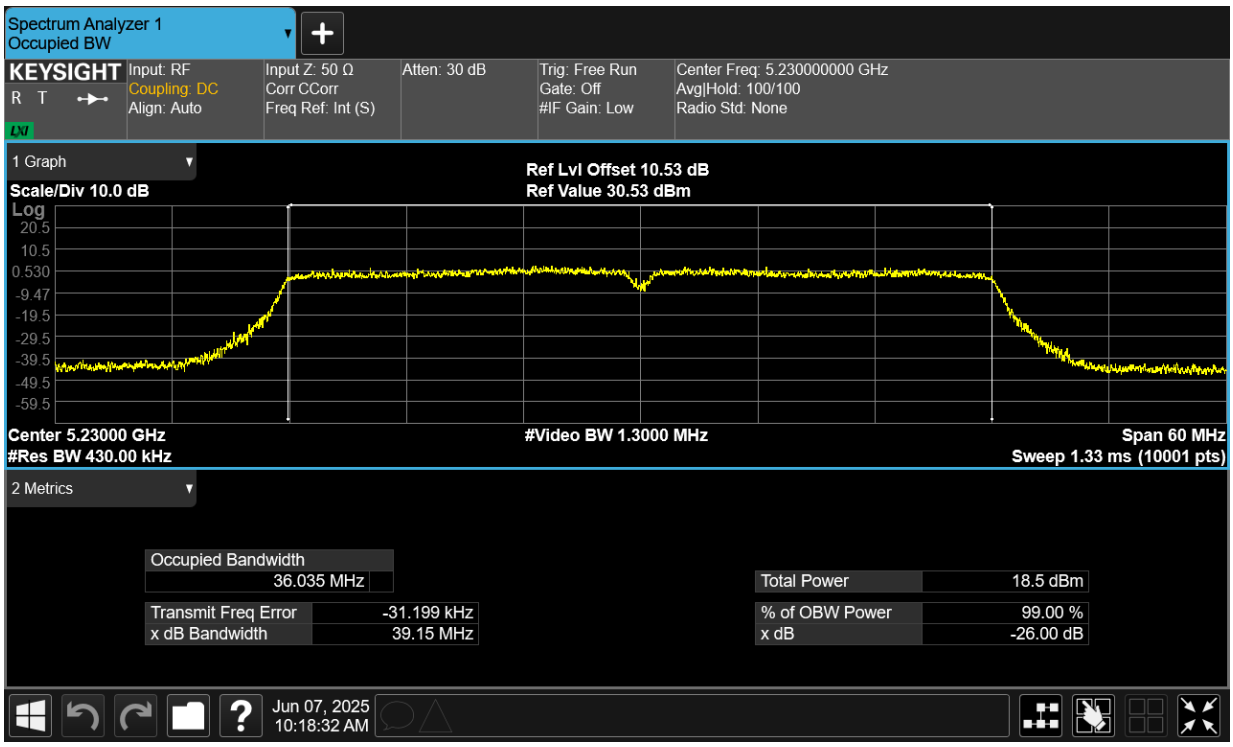
OBW NVNT n40 5230MHz Ant1



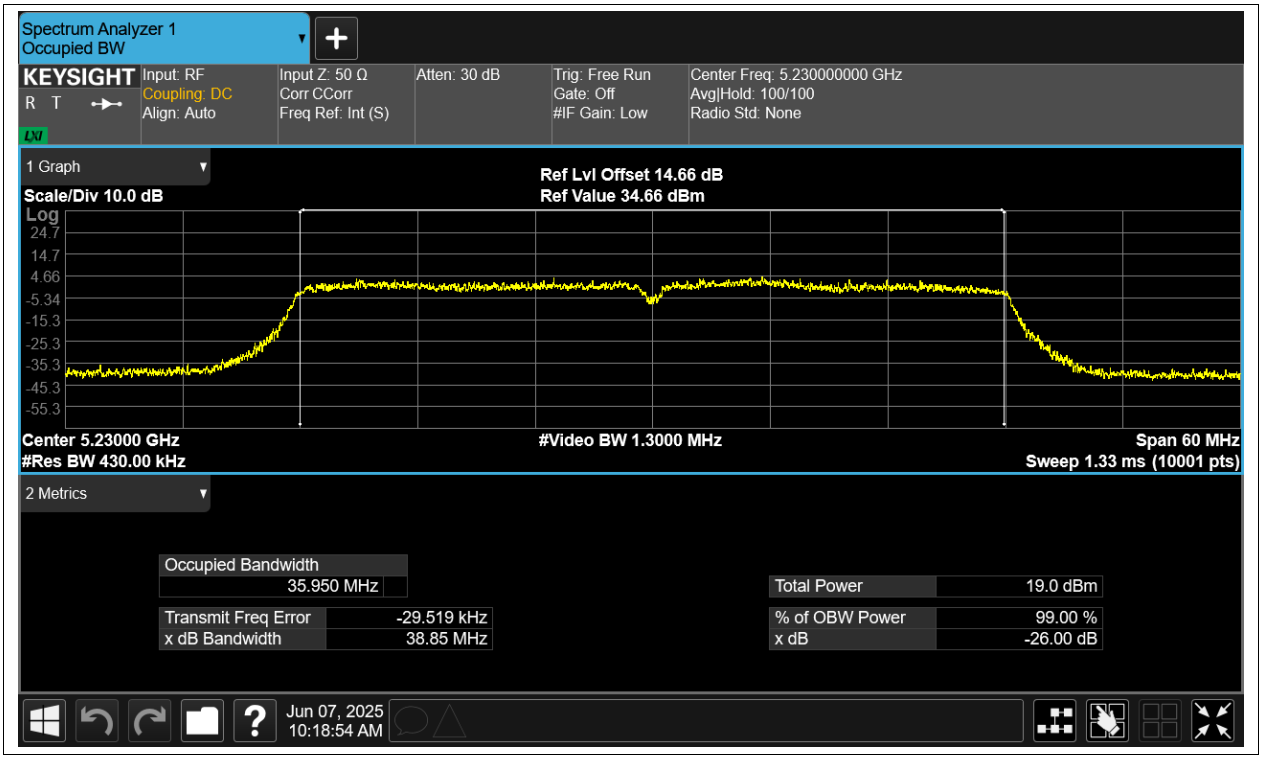
OBW NVNT n40 5230MHz Ant2



OBW NVNT n40 5230MHz Ant3



OBW NVNT n40 5230MHz Ant4


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 5.230000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 14.66 dB
Ref Value 34.66 dBm
Scale/Div 10.0 dB
Log
24.7
14.7
4.66
-5.34
-15.3
-25.3
-35.3
-45.3
-55.3
Center 5.23000 GHz
#Res BW 430.00 kHz
#Video BW 1.3000 MHz
Span 60 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
35.950 MHz
Transmit Freq Error -29.519 kHz
x dB Bandwidth 38.85 MHz
Total Power 19.0 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Jun 07, 2025
10:18:54 AM

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Max PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.21	9.987	10.197	11	Pass
NVNT	a	5200	Ant1	0.23	10.209	10.439	11	Pass
NVNT	a	5240	Ant1	0.2	10.025	10.225	11	Pass
NVNT	a	5180	Ant2	0.23	10.442	10.672	11	Pass
NVNT	a	5200	Ant2	0.24	9.739	9.979	11	Pass
NVNT	a	5240	Ant2	0.2	9.769	9.969	11	Pass
NVNT	a	5180	Ant3	0.21	10.521	10.731	11	Pass
NVNT	a	5200	Ant3	0.23	10.196	10.426	11	Pass
NVNT	a	5240	Ant3	0.22	10.053	10.273	11	Pass
NVNT	a	5180	Ant4	0.21	10.486	10.696	11	Pass
NVNT	a	5200	Ant4	0.22	10.375	10.595	11	Pass
NVNT	a	5240	Ant4	0.23	10.347	10.577	11	Pass
NVNT	ac20	5180	Ant1	0.08	-1.056	-0.976	5.98	Pass
NVNT	ac20	5180	Ant2	0.08	-1.478	-1.398	5.98	Pass
NVNT	ac20	5180	Ant3	0.08	-0.538	-0.458	5.98	Pass
NVNT	ac20	5180	Ant4	0.08	-0.063	0.017	5.98	Pass
NVNT	ac20	5180	Sum	0.08	5.27	5.35	5.98	Pass
NVNT	ac20	5200	Ant1	0.22	-1.163	-0.943	5.98	Pass
NVNT	ac20	5200	Ant2	0.22	-1.287	-1.067	5.98	Pass
NVNT	ac20	5200	Ant3	0.22	-0.548	-0.328	5.98	Pass
NVNT	ac20	5200	Ant4	0.22	0.304	0.524	5.98	Pass
NVNT	ac20	5200	Sum	0.22	5.394	5.614	5.98	Pass
NVNT	ac20	5240	Ant1	0.08	-1.566	-1.486	5.98	Pass
NVNT	ac20	5240	Ant2	0.08	-1.193	-1.113	5.98	Pass
NVNT	ac20	5240	Ant3	0.08	-0.894	-0.814	5.98	Pass
NVNT	ac20	5240	Ant4	0.08	0.48	0.56	5.98	Pass
NVNT	ac20	5240	Sum	0.08	5.299	5.379	5.98	Pass
NVNT	ac40	5190	Ant1	0.21	-1.191	-0.981	5.98	Pass
NVNT	ac40	5190	Ant2	0.21	-0.675	-0.465	5.98	Pass
NVNT	ac40	5190	Ant3	0.21	-0.603	-0.393	5.98	Pass
NVNT	ac40	5190	Ant4	0.21	0.175	0.385	5.98	Pass
NVNT	ac40	5190	Sum	0.21	5.475	5.685	5.98	Pass
NVNT	ac40	5230	Ant1	0.22	-2.709	-2.489	5.98	Pass
NVNT	ac40	5230	Ant2	0.22	-1.399	-1.179	5.98	Pass
NVNT	ac40	5230	Ant3	0.22	-0.948	-0.728	5.98	Pass
NVNT	ac40	5230	Ant4	0.22	0.096	0.316	5.98	Pass
NVNT	ac40	5230	Sum	0.22	4.895	5.115	5.98	Pass
NVNT	ac80	5210	Ant1	0.12	-6.176	-6.056	5.98	Pass
NVNT	ac80	5210	Ant2	0.12	-5.141	-5.021	5.98	Pass
NVNT	ac80	5210	Ant3	0.12	-3.371	-3.251	5.98	Pass

NVNT	ac80	5210	Ant4	0.12	-3.477	-3.357	5.98	Pass
NVNT	ac80	5210	Sum	0.12	1.633	1.753	5.98	Pass
NVNT	ax20	5180	Ant1	0.1	-0.91	-0.81	5.98	Pass
NVNT	ax20	5180	Ant2	0.1	-0.906	-0.806	5.98	Pass
NVNT	ax20	5180	Ant3	0.1	-0.091	0.009	5.98	Pass
NVNT	ax20	5180	Ant4	0.1	-0.193	-0.093	5.98	Pass
NVNT	ax20	5180	Sum	0.1	5.513	5.613	5.98	Pass
NVNT	ax20	5200	Ant1	0.1	-1.403	-1.303	5.98	Pass
NVNT	ax20	5200	Ant2	0.1	-0.889	-0.789	5.98	Pass
NVNT	ax20	5200	Ant3	0.1	-0.814	-0.714	5.98	Pass
NVNT	ax20	5200	Ant4	0.1	-0.054	0.046	5.98	Pass
NVNT	ax20	5200	Sum	0.1	5.258	5.358	5.98	Pass
NVNT	ax20	5240	Ant1	0.12	-1.678	-1.558	5.98	Pass
NVNT	ax20	5240	Ant2	0.12	-0.597	-0.477	5.98	Pass
NVNT	ax20	5240	Ant3	0.12	-1.023	-0.903	5.98	Pass
NVNT	ax20	5240	Ant4	0.12	0.205	0.325	5.98	Pass
NVNT	ax20	5240	Sum	0.12	5.301	5.421	5.98	Pass
NVNT	ax40	5190	Ant1	0.11	-1.418	-1.308	5.98	Pass
NVNT	ax40	5190	Ant2	0.11	-0.489	-0.379	5.98	Pass
NVNT	ax40	5190	Ant3	0.11	-0.45	-0.34	5.98	Pass
NVNT	ax40	5190	Ant4	0.11	0.416	0.526	5.98	Pass
NVNT	ax40	5190	Sum	0.11	5.584	5.694	5.98	Pass
NVNT	ax40	5230	Ant1	0.14	-2.324	-2.184	5.98	Pass
NVNT	ax40	5230	Ant2	0.14	-0.947	-0.807	5.98	Pass
NVNT	ax40	5230	Ant3	0.14	-0.473	-0.333	5.98	Pass
NVNT	ax40	5230	Ant4	0.14	-0.01	0.13	5.98	Pass
NVNT	ax40	5230	Sum	0.14	5.164	5.304	5.98	Pass
NVNT	ax80	5210	Ant1	0.2	-5.838	-5.638	5.98	Pass
NVNT	ax80	5210	Ant2	0.2	-4.475	-4.275	5.98	Pass
NVNT	ax80	5210	Ant3	0.2	-3.71	-3.51	5.98	Pass
NVNT	ax80	5210	Ant4	0.2	-3.063	-2.863	5.98	Pass
NVNT	ax80	5210	Sum	0.2	1.867	2.067	5.98	Pass
NVNT	n20	5180	Ant1	0.09	-1.018	-0.928	5.98	Pass
NVNT	n20	5180	Ant2	0.09	-1.517	-1.427	5.98	Pass
NVNT	n20	5180	Ant3	0.09	-0.505	-0.415	5.98	Pass
NVNT	n20	5180	Ant4	0.09	0.059	0.149	5.98	Pass
NVNT	n20	5180	Sum	0.09	5.315	5.405	5.98	Pass
NVNT	n20	5200	Ant1	0.08	-1.241	-1.161	5.98	Pass
NVNT	n20	5200	Ant2	0.08	-1.32	-1.24	5.98	Pass
NVNT	n20	5200	Ant3	0.08	-0.935	-0.855	5.98	Pass
NVNT	n20	5200	Ant4	0.08	0.233	0.313	5.98	Pass
NVNT	n20	5200	Sum	0.08	5.251	5.331	5.98	Pass
NVNT	n20	5240	Ant1	0.1	-1.708	-1.608	5.98	Pass
NVNT	n20	5240	Ant2	0.1	-1.217	-1.117	5.98	Pass

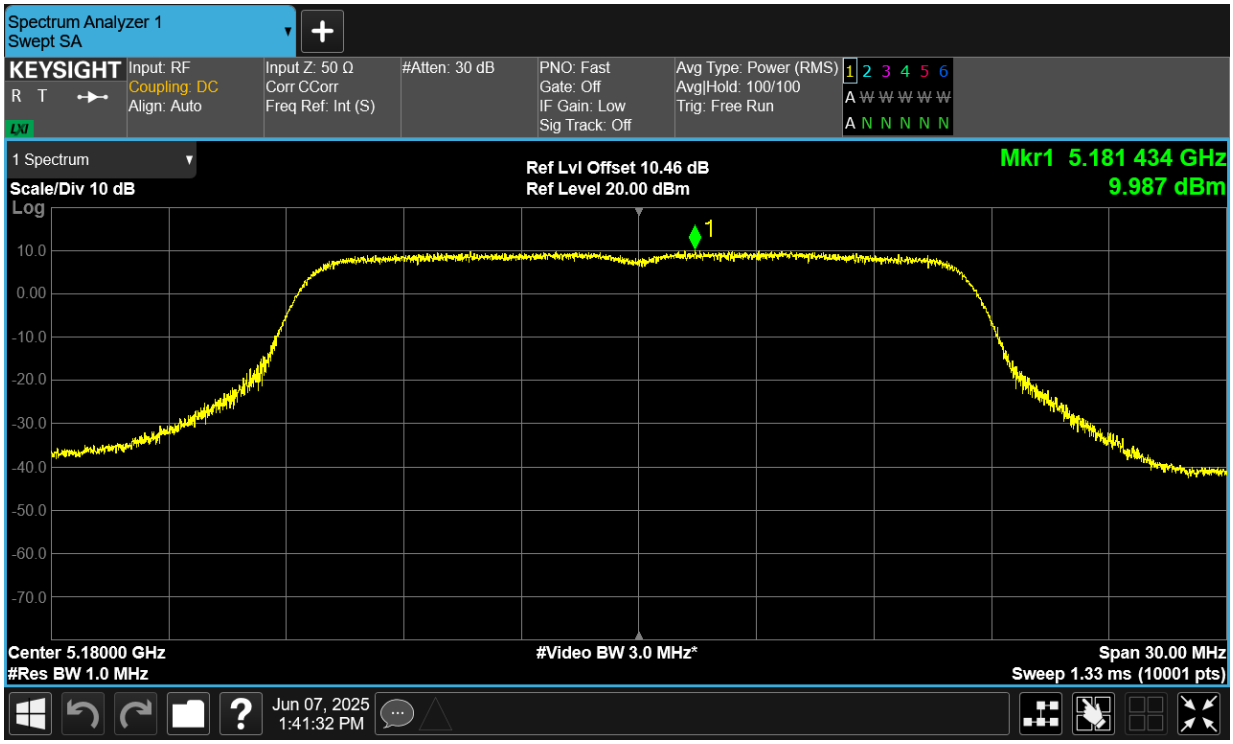
NVNT	n20	5240	Ant3	0.1	-0.984	-0.884	5.98	Pass
NVNT	n20	5240	Ant4	0.1	0.544	0.644	5.98	Pass
NVNT	n20	5240	Sum	0.1	5.265	5.365	5.98	Pass
NVNT	n40	5190	Ant1	0.21	-3.12	-2.91	5.98	Pass
NVNT	n40	5190	Ant2	0.21	-2.102	-1.892	5.98	Pass
NVNT	n40	5190	Ant3	0.21	-1.4	-1.19	5.98	Pass
NVNT	n40	5190	Ant4	0.21	-0.729	-0.519	5.98	Pass
NVNT	n40	5190	Sum	0.21	4.271	4.481	5.98	Pass
NVNT	n40	5230	Ant1	0.22	-3.526	-3.306	5.98	Pass
NVNT	n40	5230	Ant2	0.22	-2.507	-2.287	5.98	Pass
NVNT	n40	5230	Ant3	0.22	-1.418	-1.198	5.98	Pass
NVNT	n40	5230	Ant4	0.22	-1.139	-0.919	5.98	Pass
NVNT	n40	5230	Sum	0.22	3.973	4.193	5.98	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

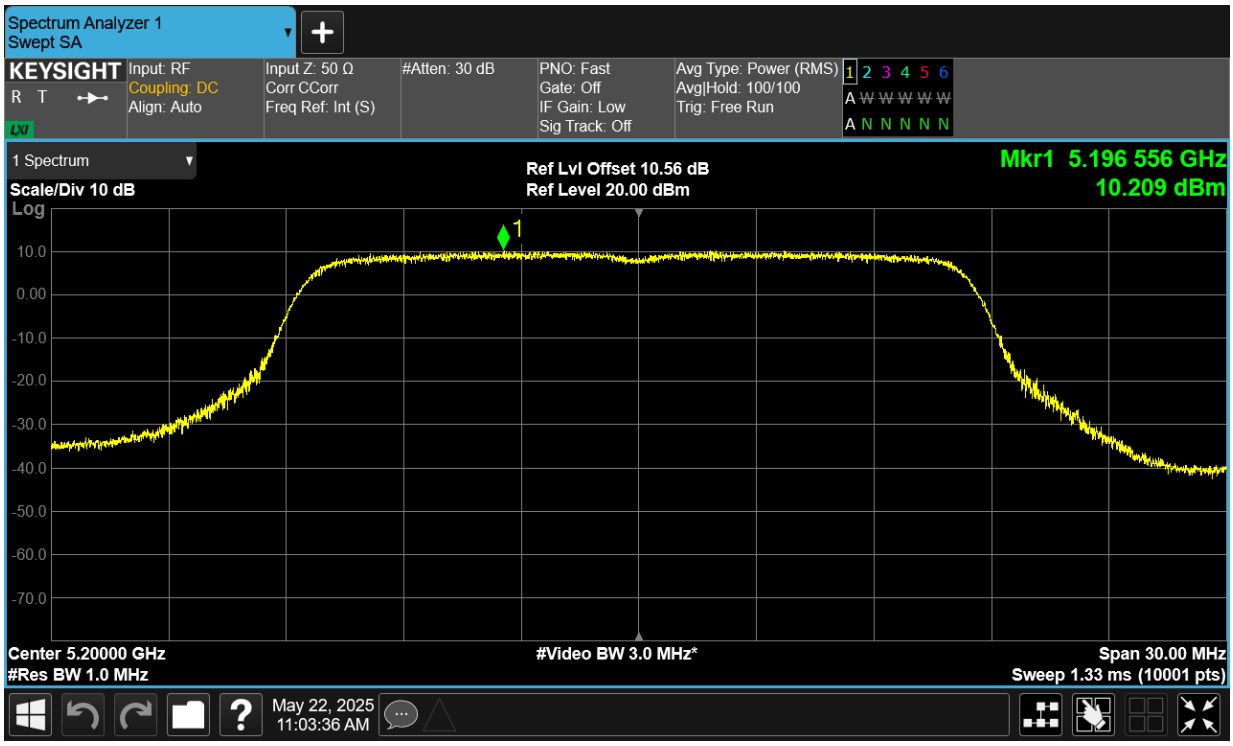
For MIMO mode: ant gain is 5+10*log10(4)=5+6.02=11.02 dBi, the limit is 11-(11.02-6)=5.98dbm.

Test Graphs

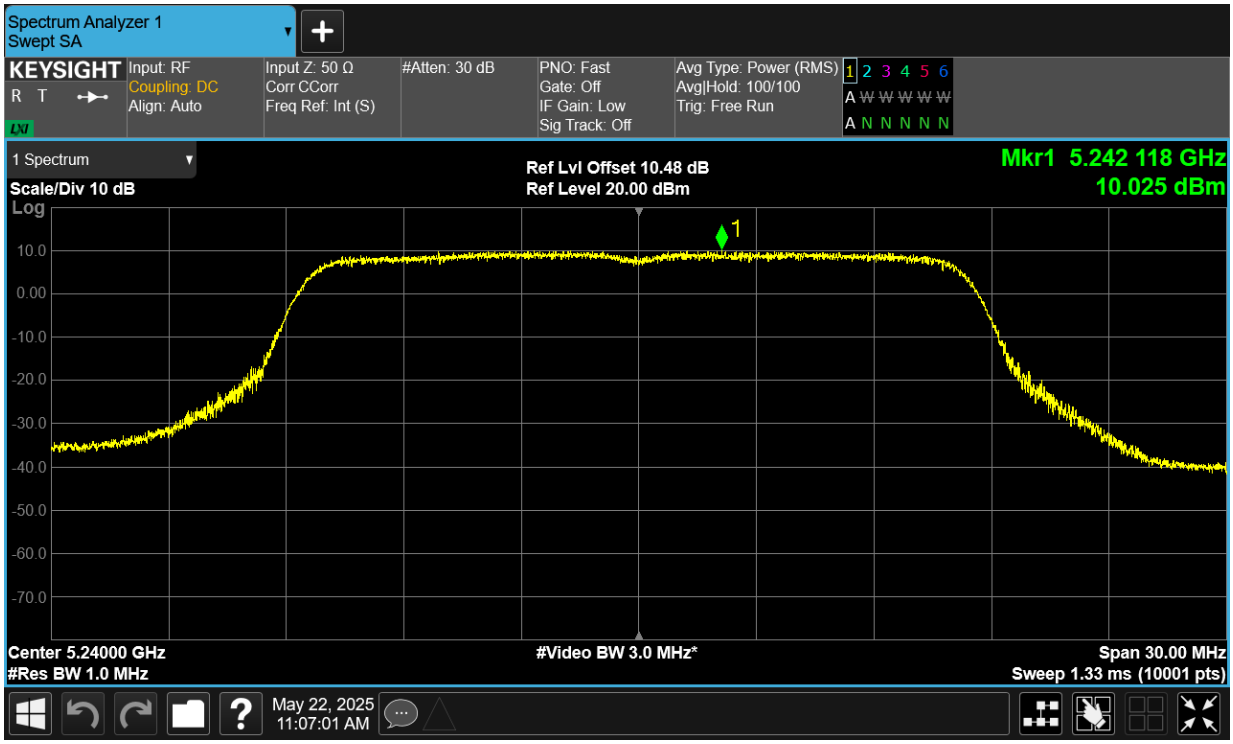
PSD NVNT a 5180MHz Ant1



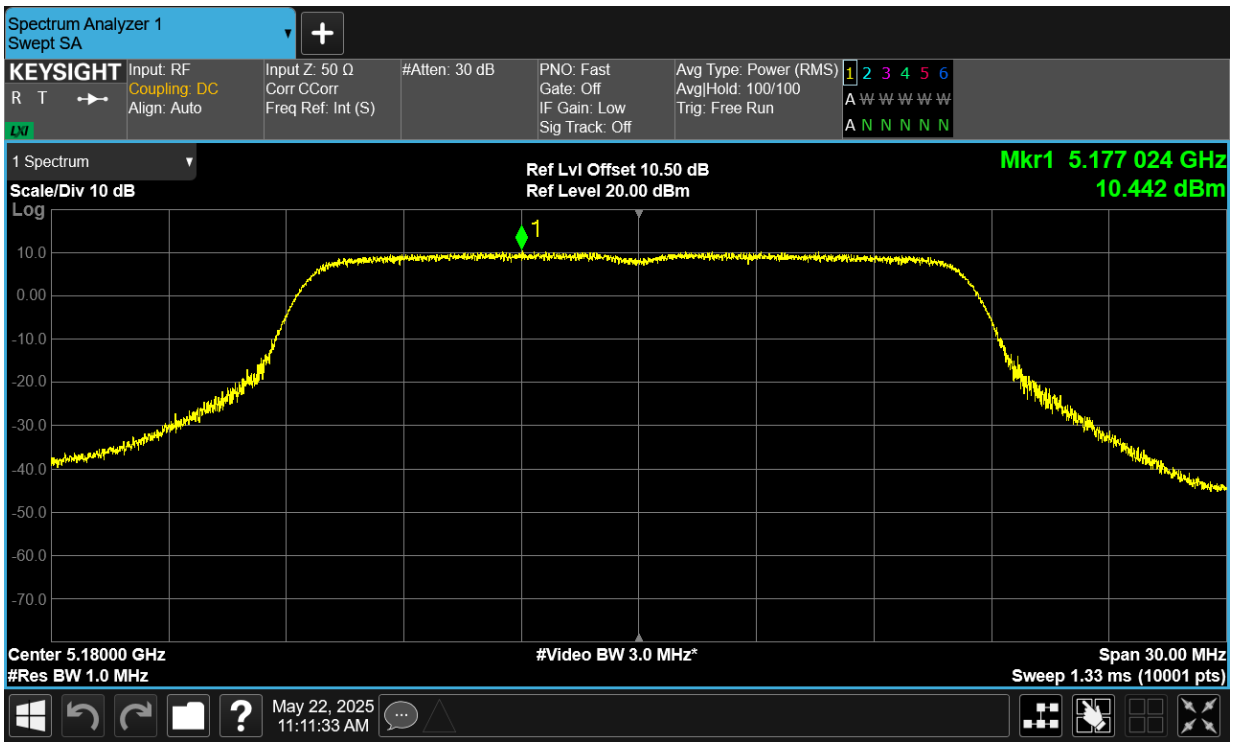
PSD NVNT a 5200MHz Ant1



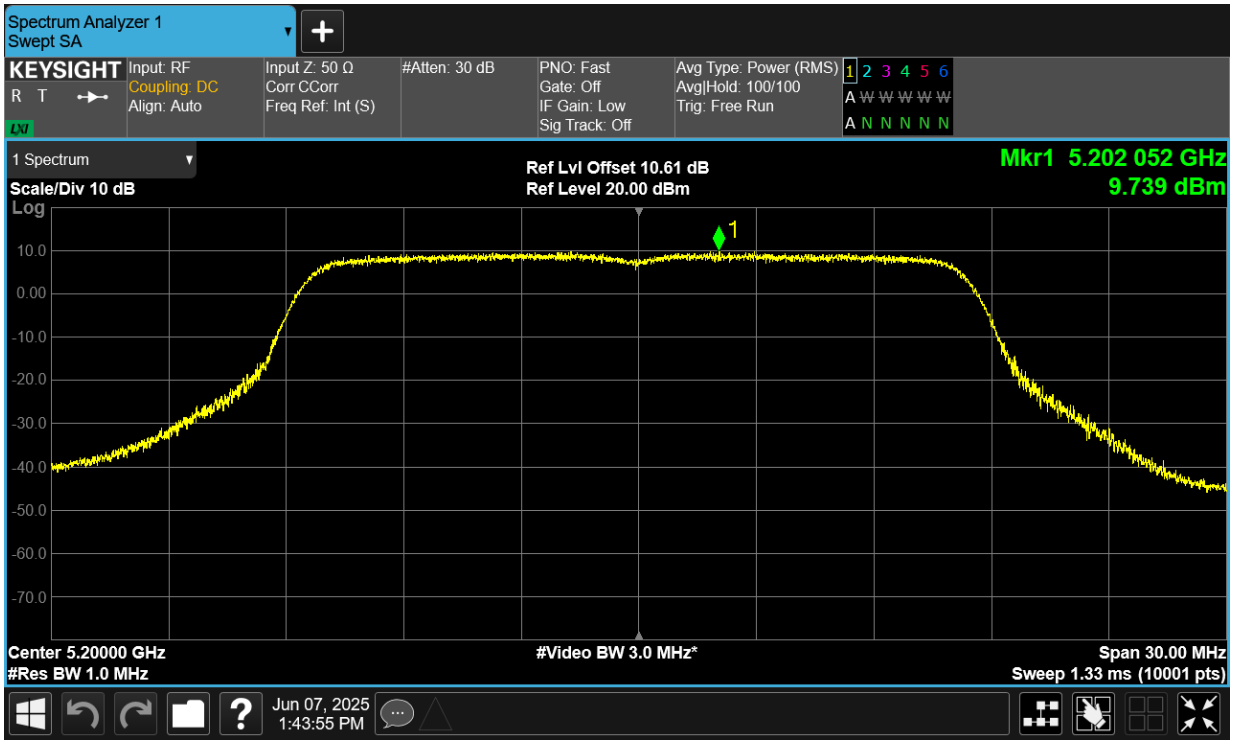
PSD NVNT a 5240MHz Ant1



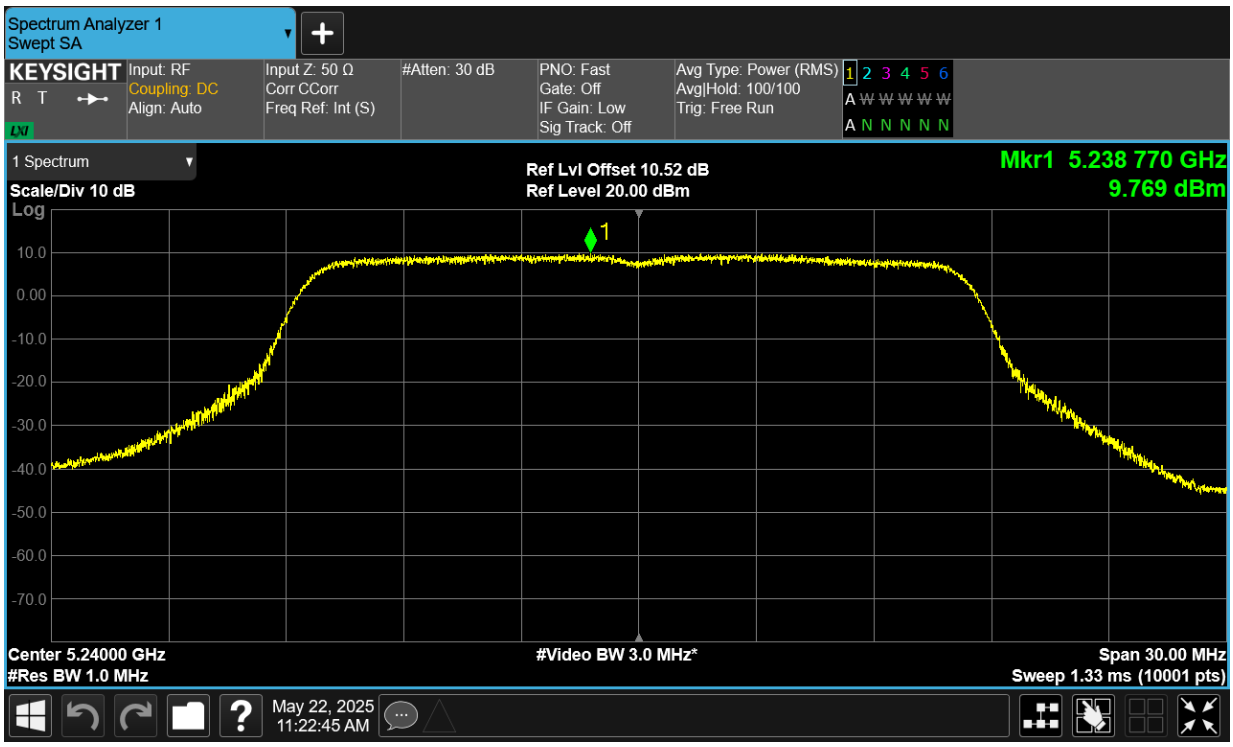
PSD NVNT a 5180MHz Ant2



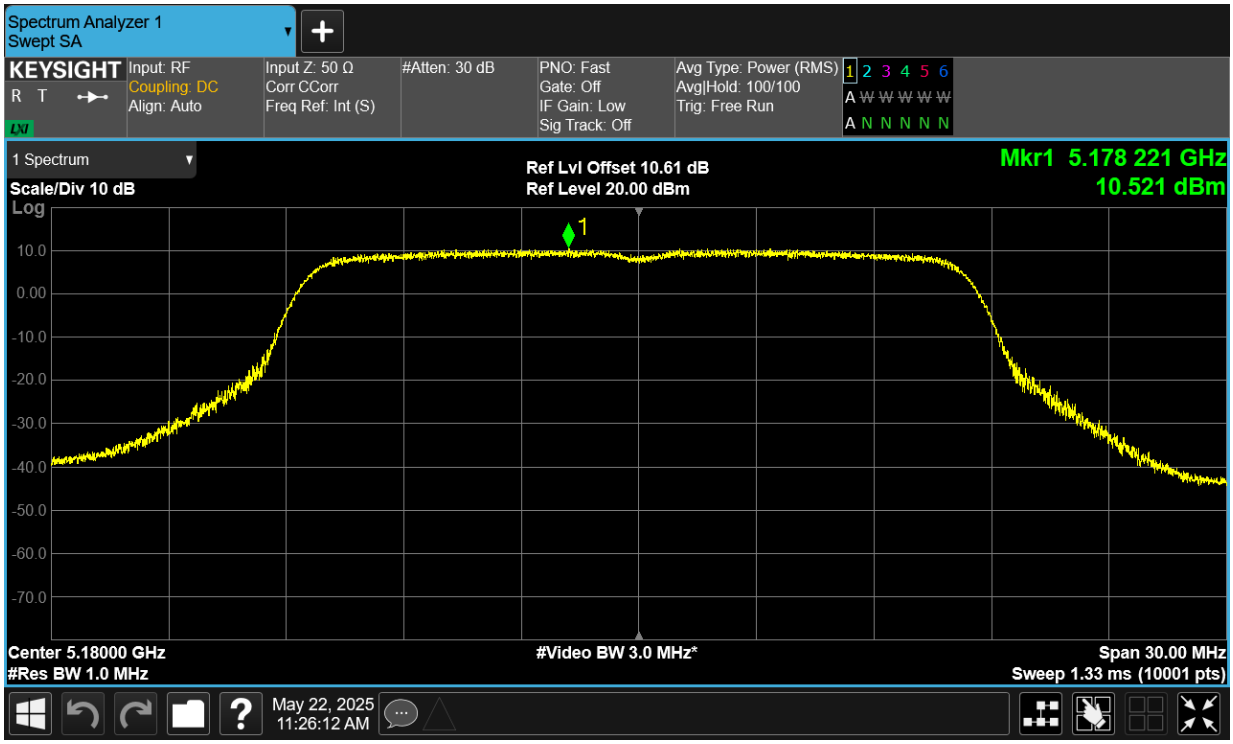
PSD NVNT a 5200MHz Ant2



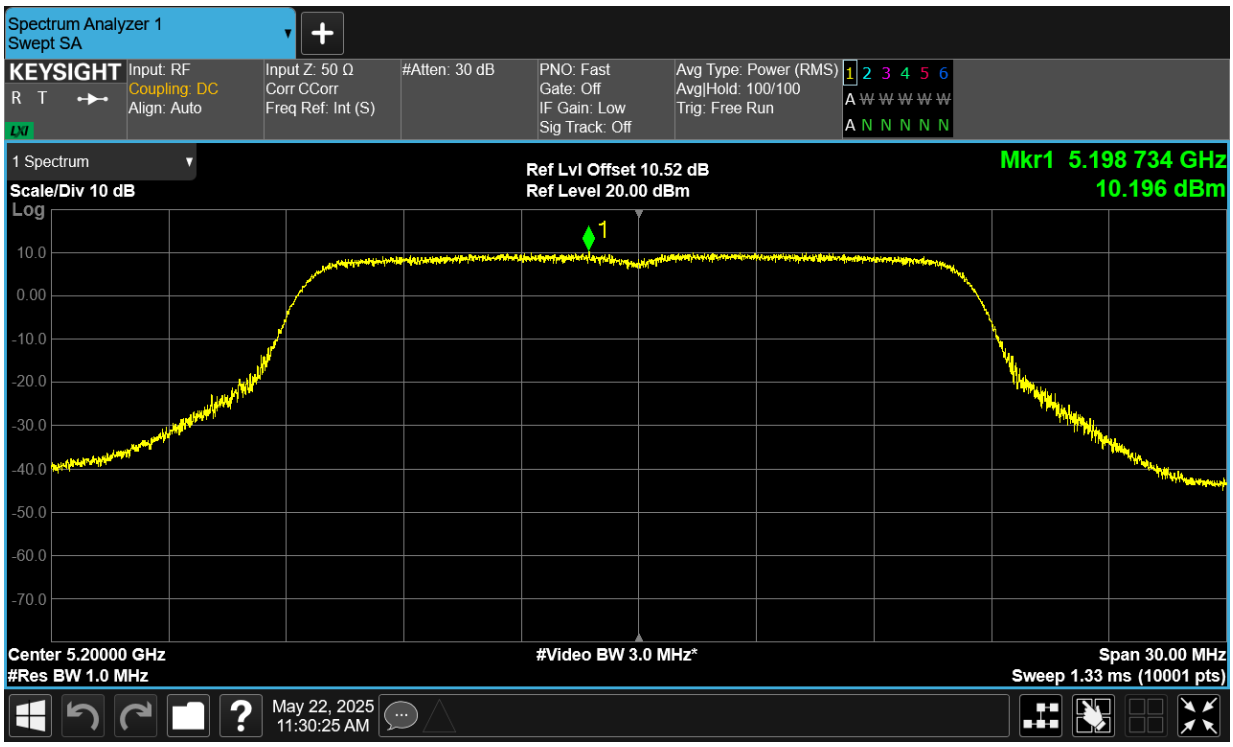
PSD NVNT a 5240MHz Ant2



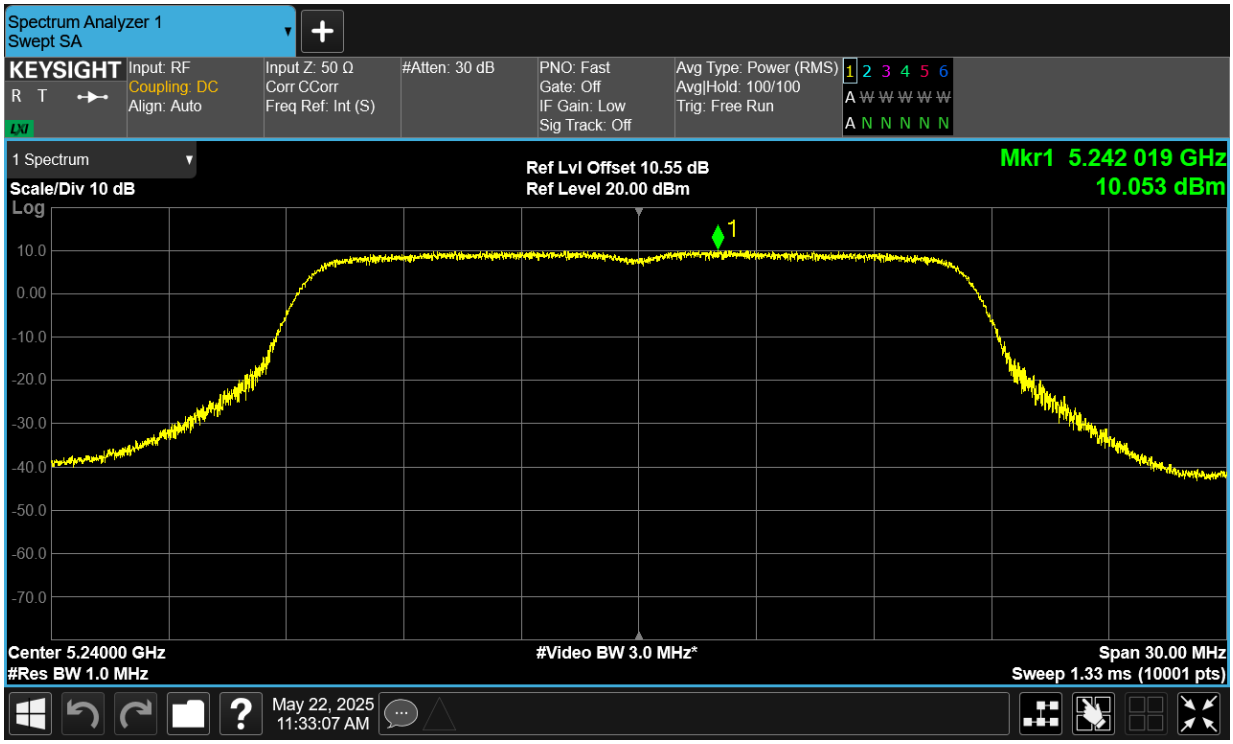
PSD NVNT a 5180MHz Ant3



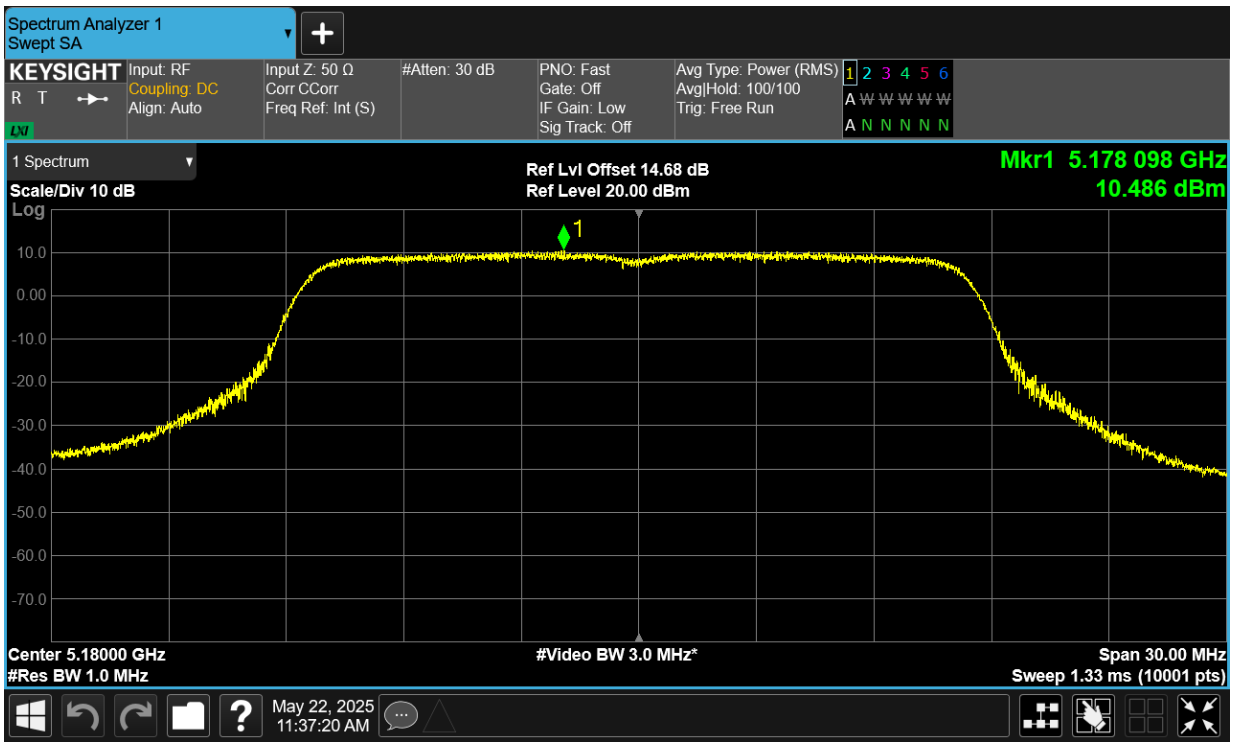
PSD NVNT a 5200MHz Ant3



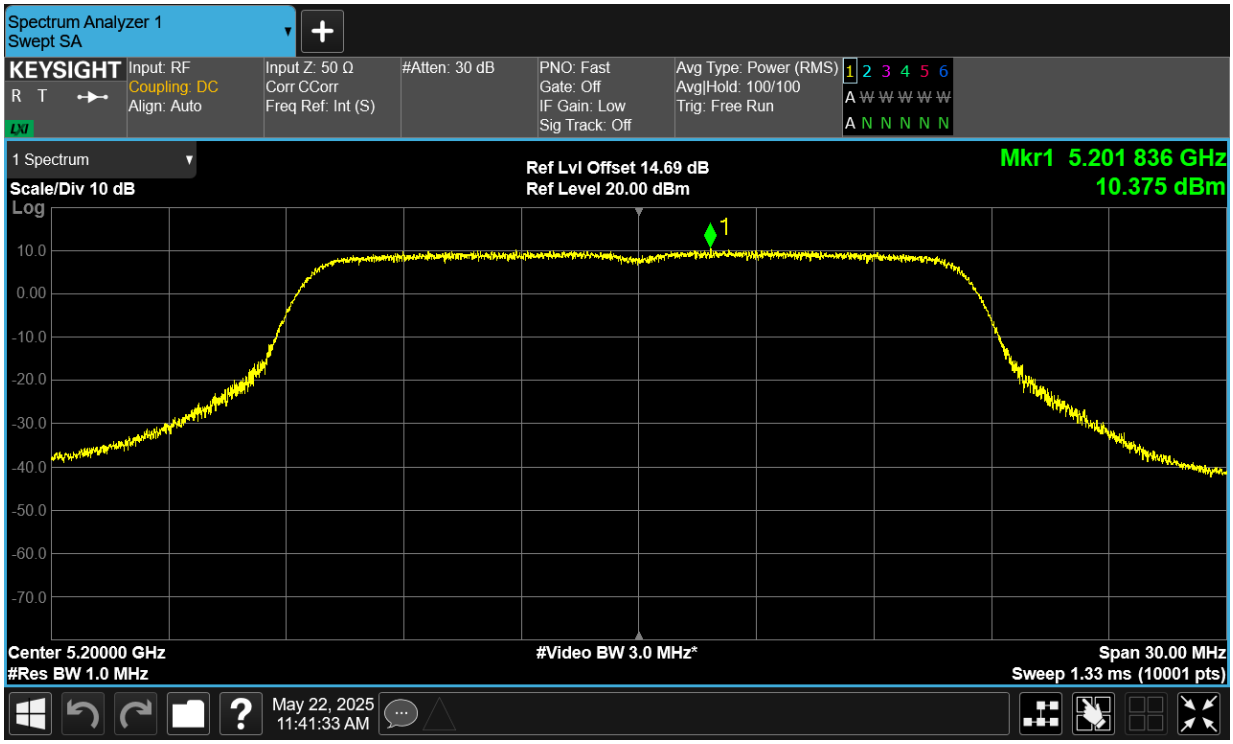
PSD NVNT a 5240MHz Ant3



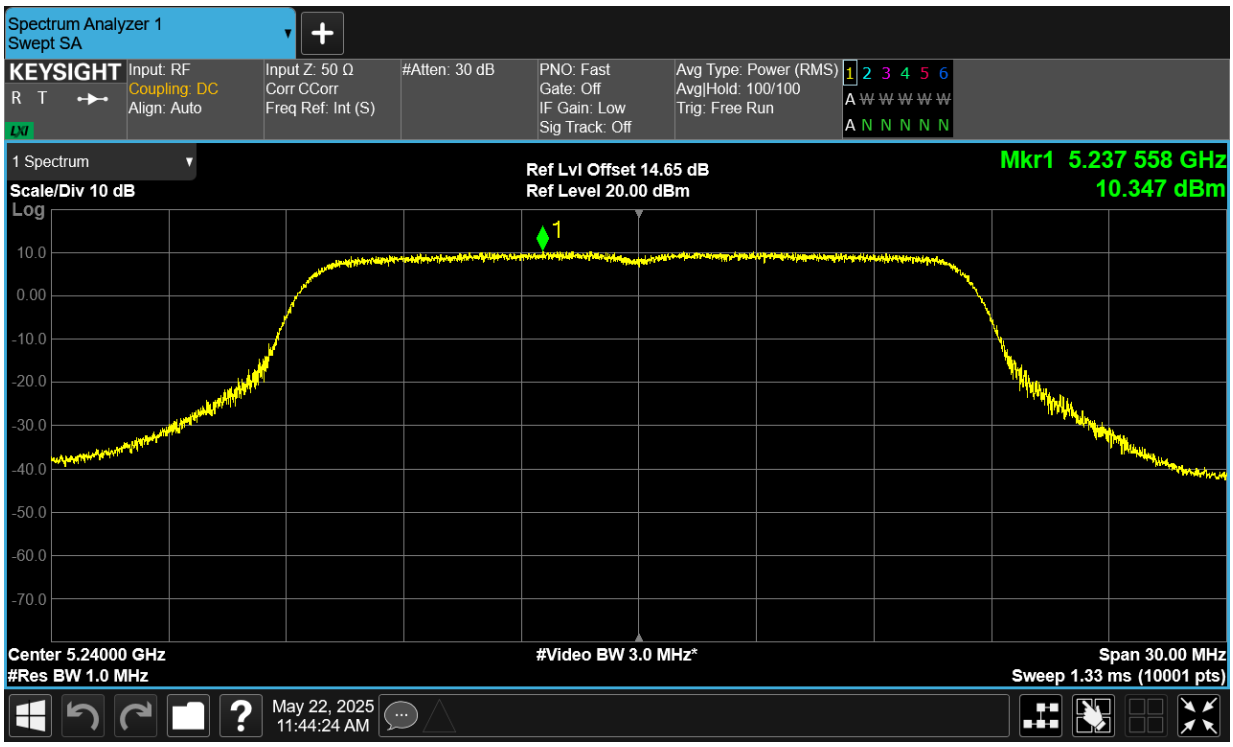
PSD NVNT a 5180MHz Ant4



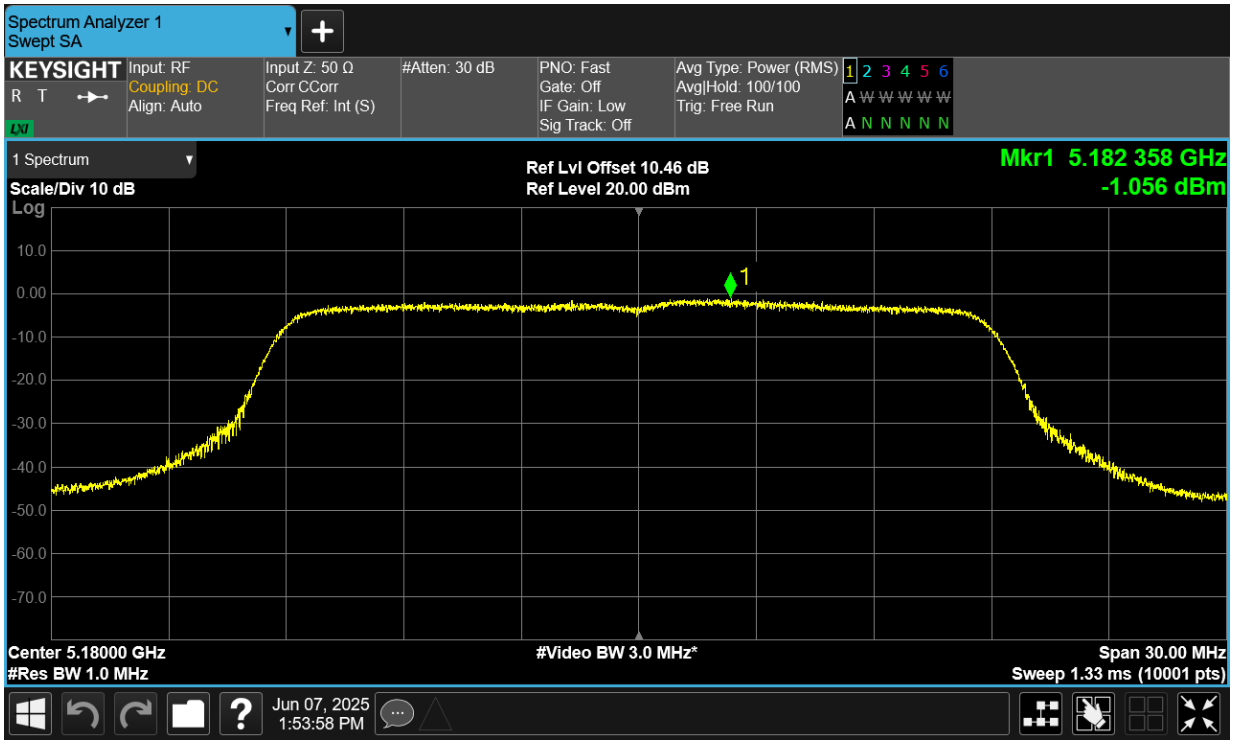
PSD NVNT a 5200MHz Ant4



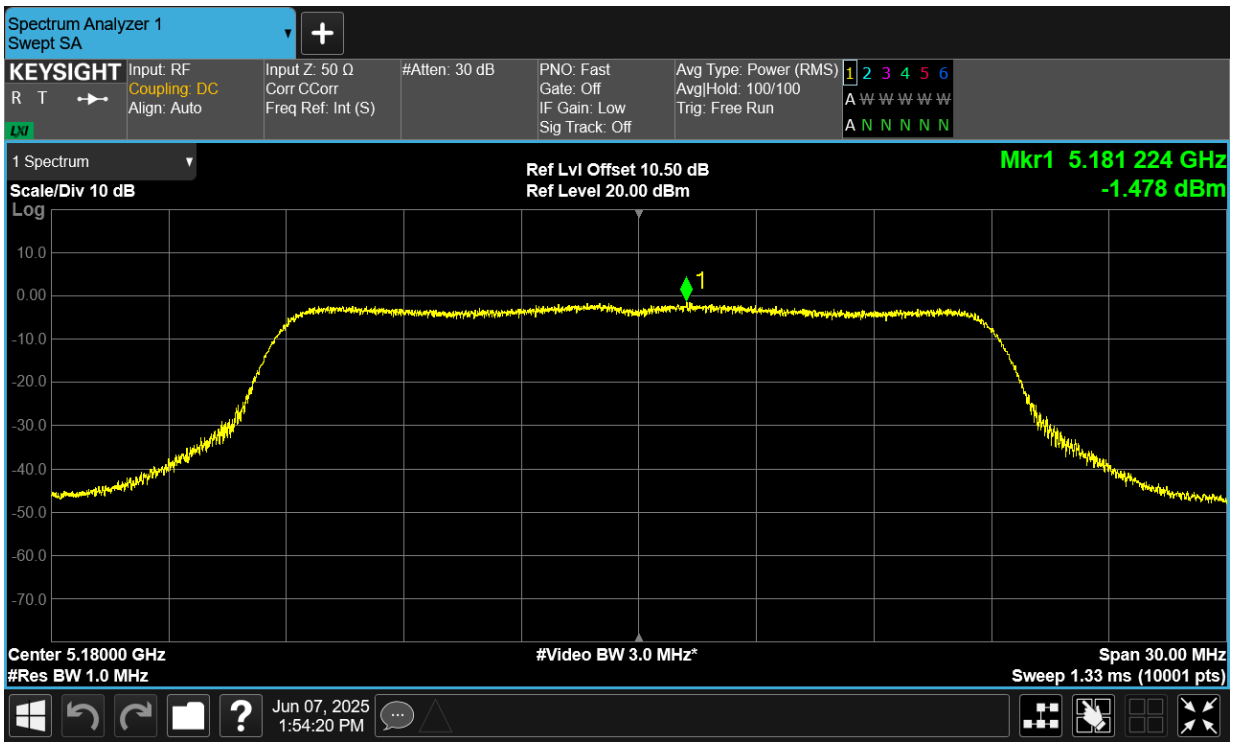
PSD NVNT a 5240MHz Ant4



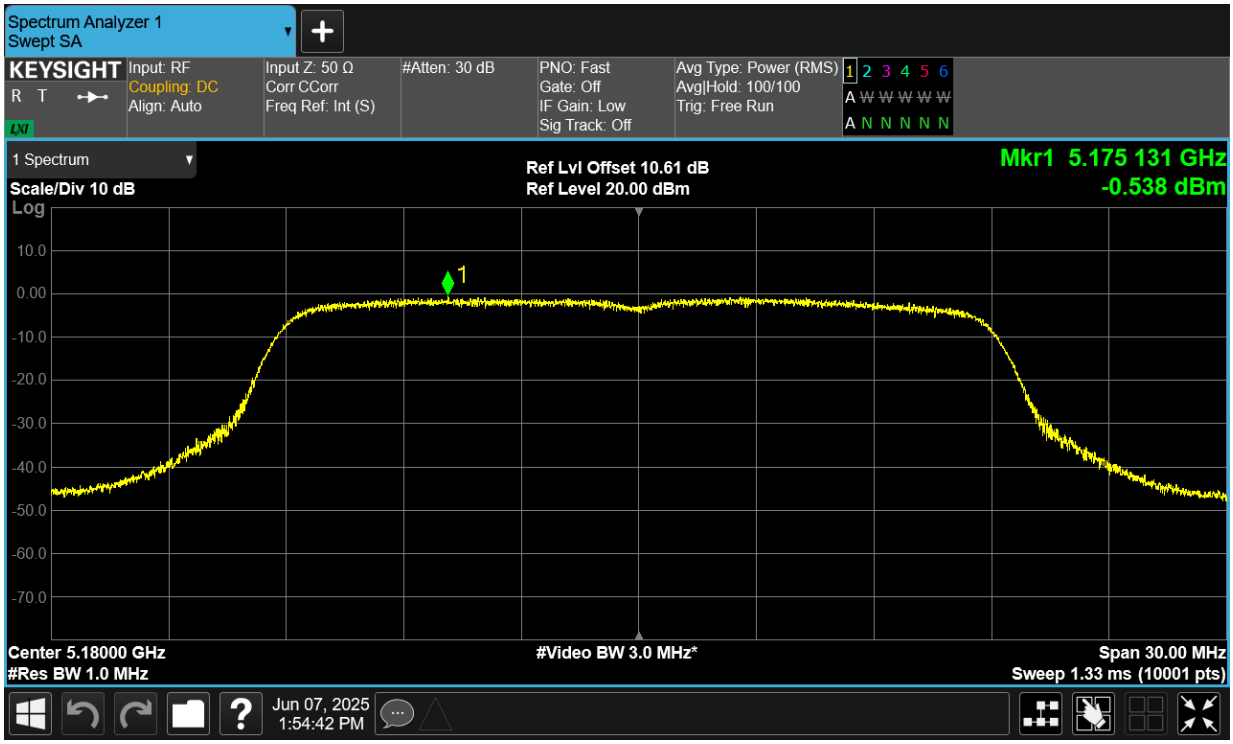
PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5180MHz Ant2

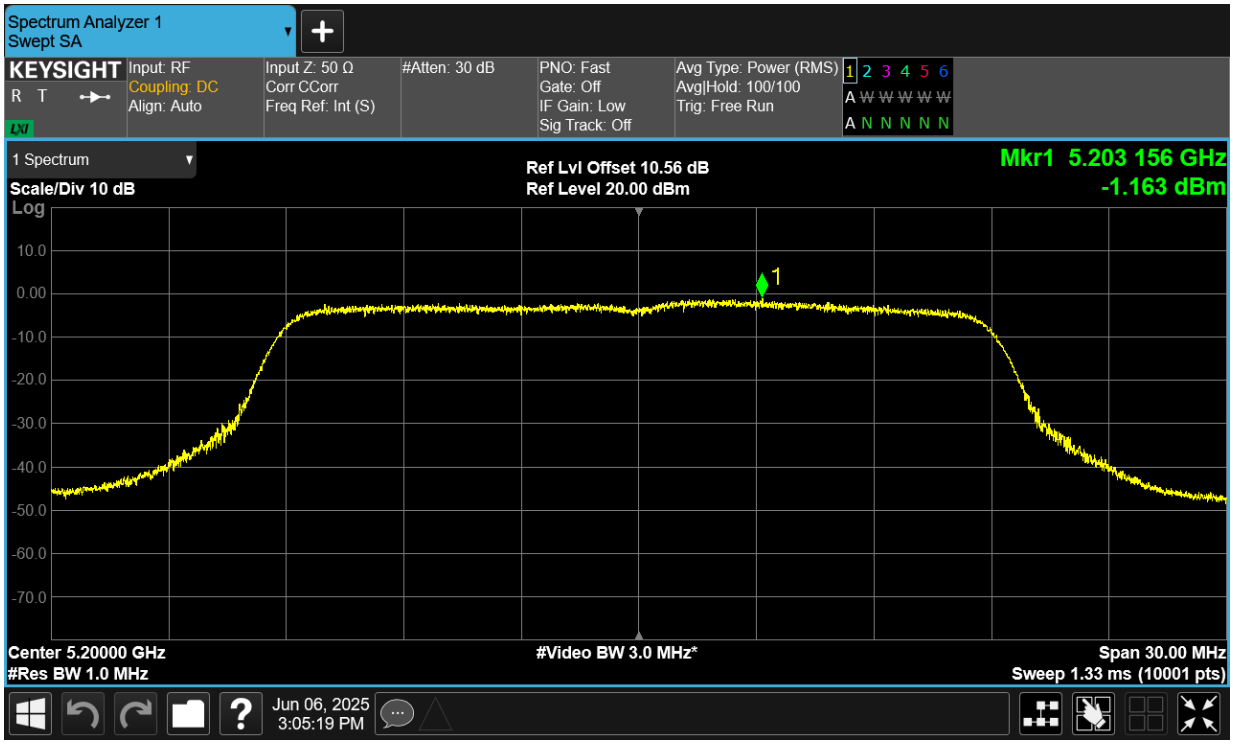


PSD NVNT ac20 5180MHz Ant3

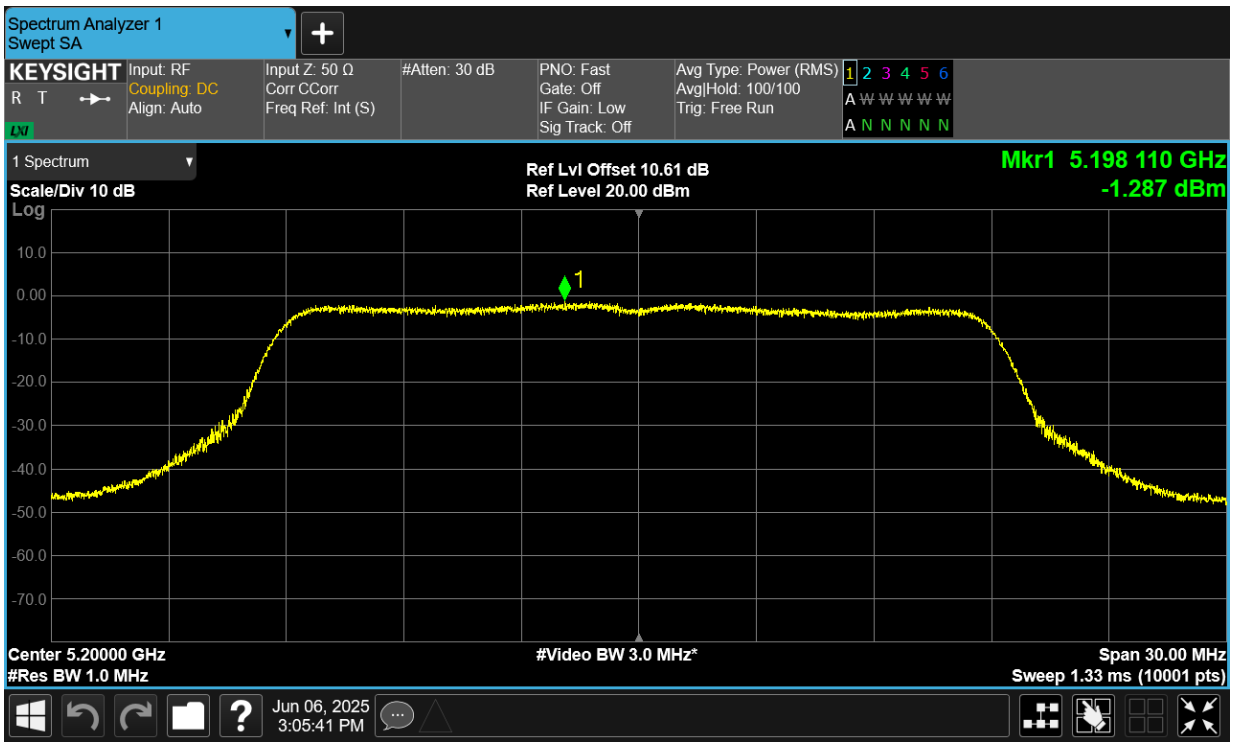


PSD NVNT ac20 5180MHz Ant4

PSD NVNT ac20 5200MHz Ant1

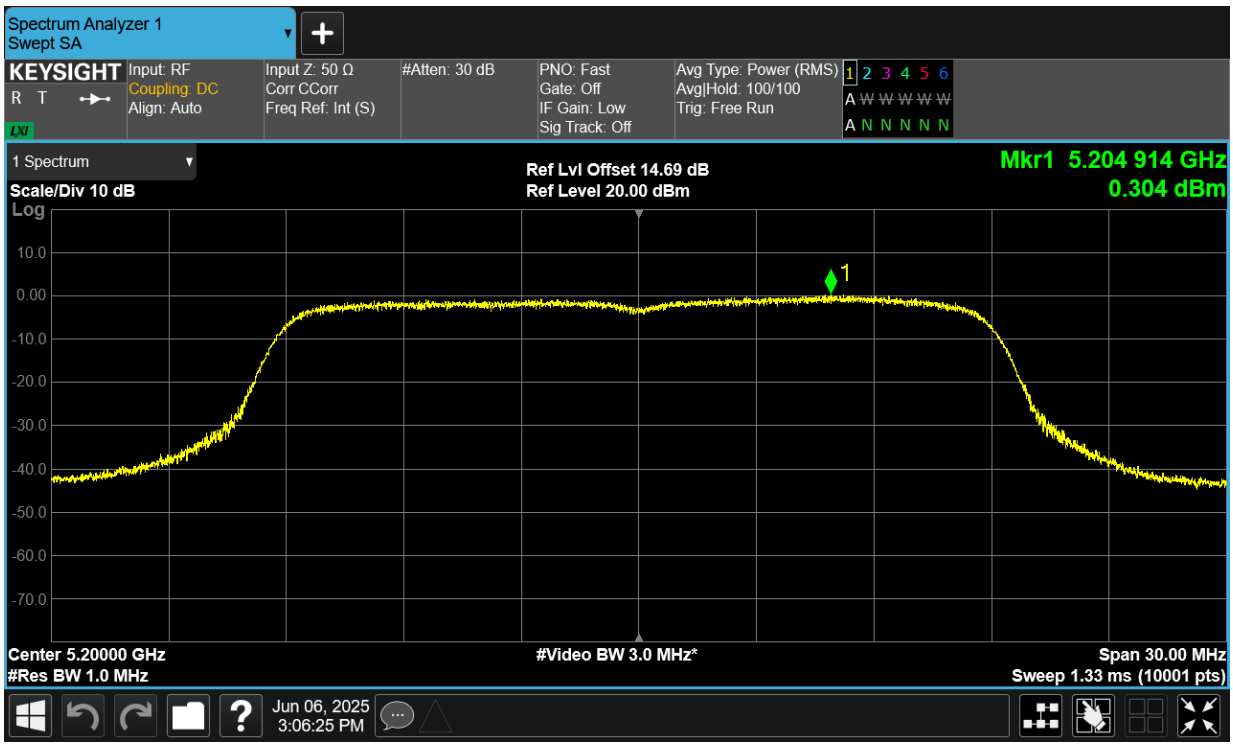


PSD NVNT ac20 5200MHz Ant2



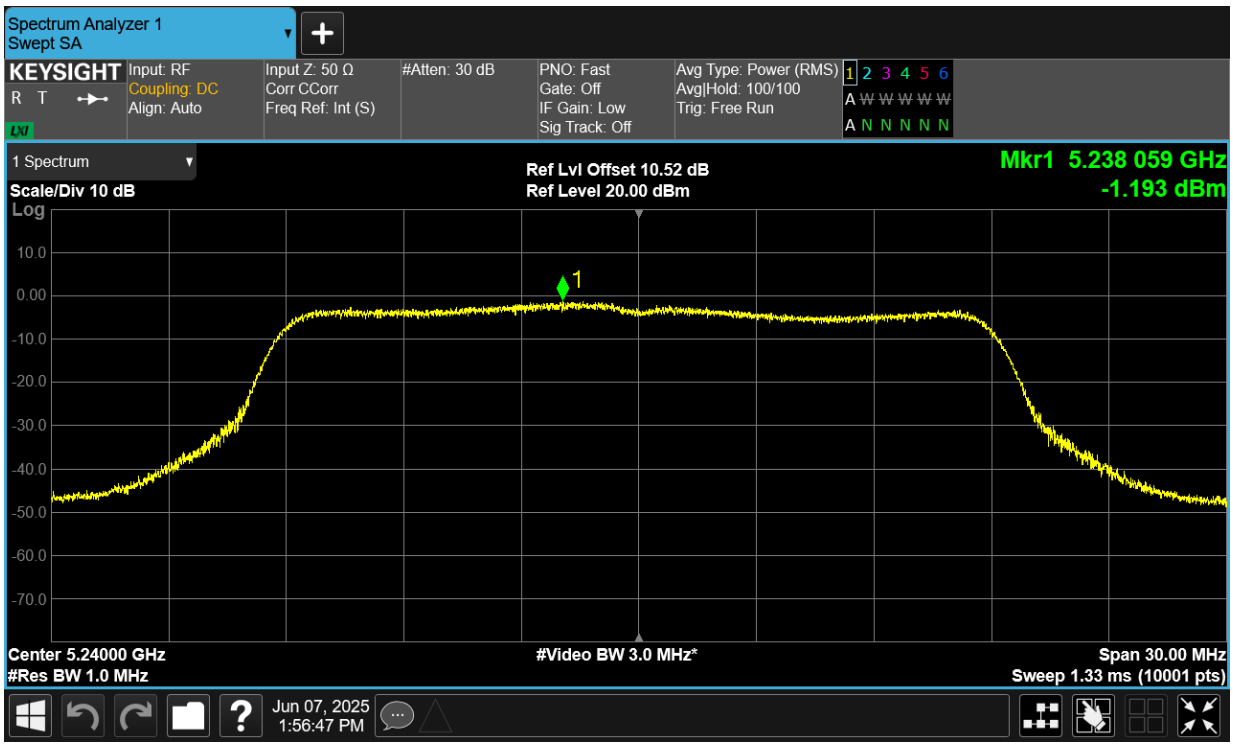
PSD NVNT ac20 5200MHz Ant3

PSD NVNT ac20 5200MHz Ant4



PSD NVNT ac20 5240MHz Ant1

PSD NVNT ac20 5240MHz Ant2



PSD NVNT ac20 5240MHz Ant3