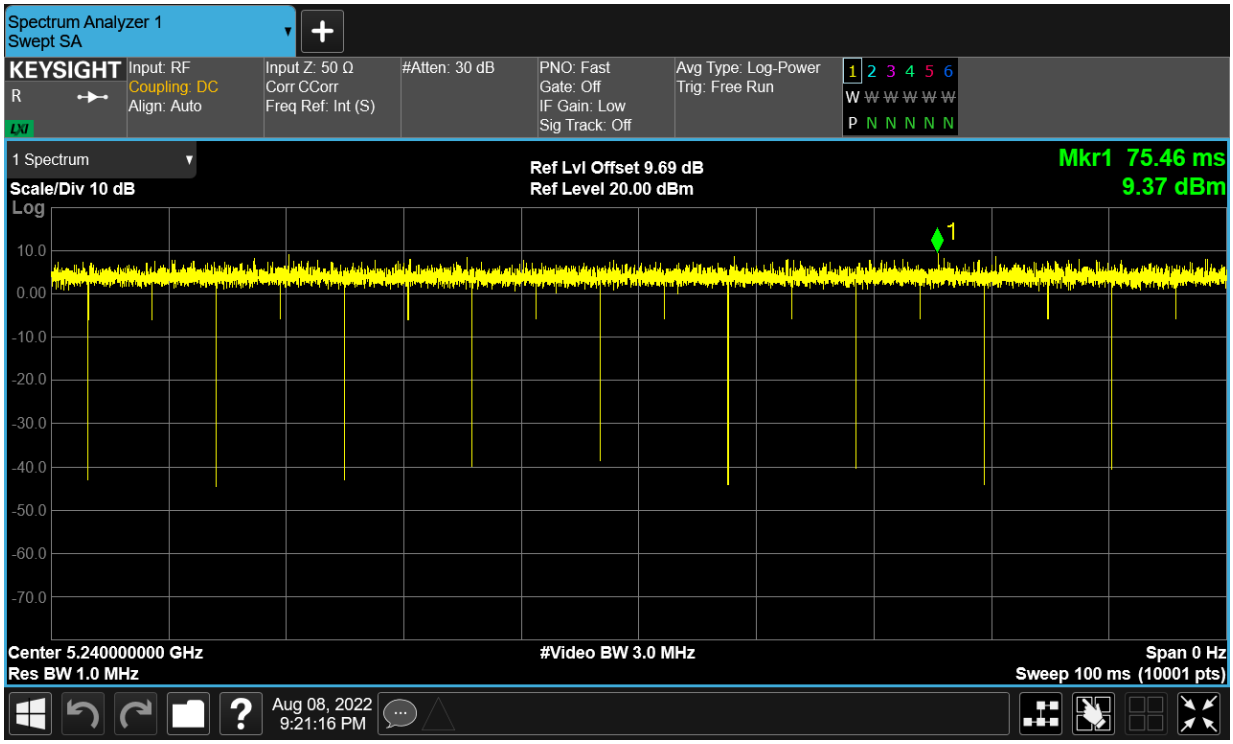
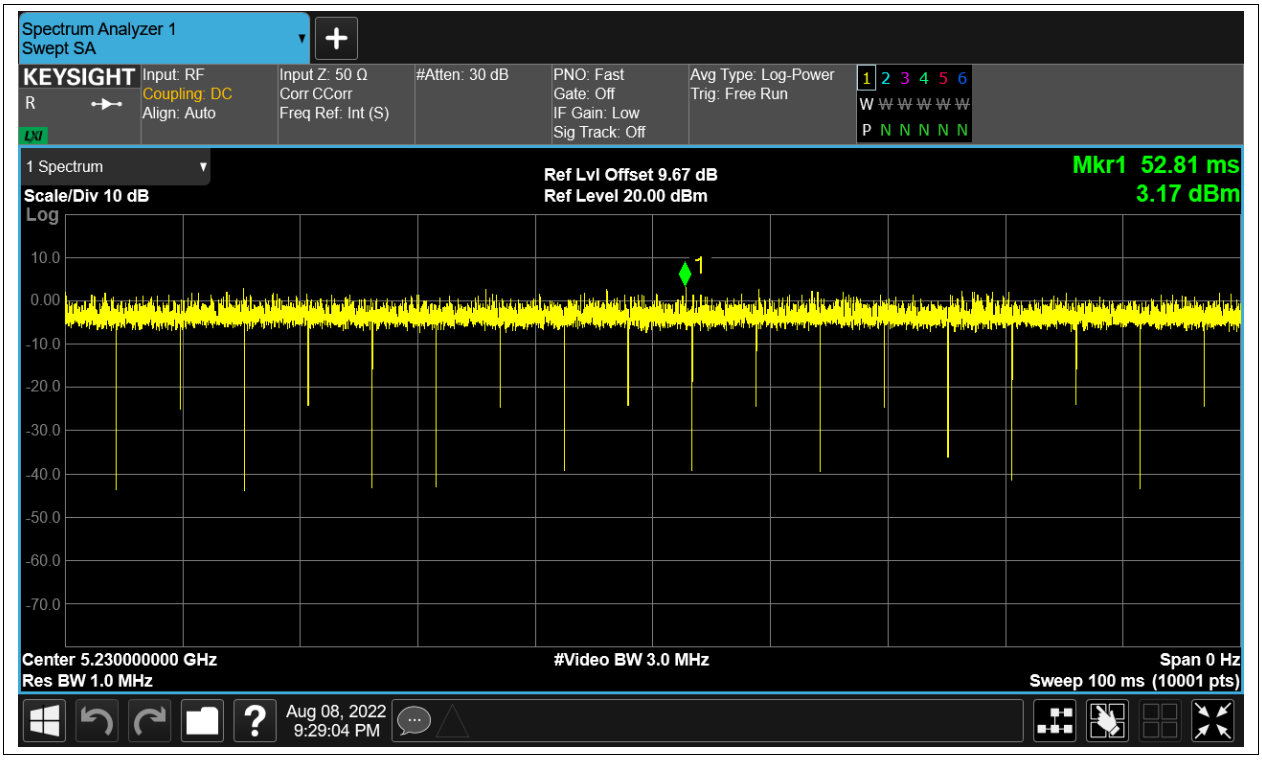


Duty Cycle NVNT n40 5190MHz Sum

Duty Cycle NVNT n40 5230MHz Sum


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 9.67 dB
Ref Level 20.00 dBm
Mkr1 52.81 ms
3.17 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.230000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Aug 08, 2022
9:29:04 PM

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	13.65	0.01	13.66	24	Pass
NVNT	a	5200	Ant1	13.48	0.01	13.49	24	Pass
NVNT	a	5240	Ant1	13.48	0.01	13.49	24	Pass
NVNT	a	5180	Ant2	13.97	0.01	13.98	24	Pass
NVNT	a	5200	Ant2	13.87	0.01	13.88	24	Pass
NVNT	a	5240	Ant2	13.59	0.01	13.6	24	Pass
NVNT	ac20	5180	Ant1	11.43	0	11.43	24	Pass
NVNT	ac20	5180	Ant2	11.96	0	11.96	24	Pass
NVNT	ac20	5180	Sum	14.713	0	14.713	24	Pass
NVNT	ac20	5200	Ant1	11.16	0	11.16	24	Pass
NVNT	ac20	5200	Ant2	11.86	0	11.86	24	Pass
NVNT	ac20	5200	Sum	14.534	0	14.534	24	Pass
NVNT	ac20	5240	Ant1	11.36	0	11.36	24	Pass
NVNT	ac20	5240	Ant2	11.44	0	11.44	24	Pass
NVNT	ac20	5240	Sum	14.41	0	14.41	24	Pass
NVNT	ac40	5190	Ant1	10.32	0	10.32	24	Pass
NVNT	ac40	5190	Ant2	10.82	0	10.82	24	Pass
NVNT	ac40	5190	Sum	13.587	0	13.587	24	Pass
NVNT	ac40	5230	Ant1	10.22	0	10.22	24	Pass
NVNT	ac40	5230	Ant2	10.63	0	10.63	24	Pass
NVNT	ac40	5230	Sum	13.44	0	13.44	24	Pass
NVNT	ac80	5210	Ant1	10.29	0	10.29	24	Pass
NVNT	ac80	5210	Ant2	10.56	0	10.56	24	Pass
NVNT	ac80	5210	Sum	13.437	0	13.437	24	Pass
NVNT	ax20	5180	Ant1	9.77	0	9.77	24	Pass
NVNT	ax20	5180	Ant2	10.13	0	10.13	24	Pass
NVNT	ax20	5180	Sum	12.964	0	12.964	24	Pass
NVNT	ax20	5200	Ant1	9.58	0	9.58	24	Pass
NVNT	ax20	5200	Ant2	10.04	0	10.04	24	Pass
NVNT	ax20	5200	Sum	12.826	0	12.826	24	Pass
NVNT	ax20	5240	Ant1	9.62	0	9.62	24	Pass
NVNT	ax20	5240	Ant2	9.85	0	9.85	24	Pass
NVNT	ax20	5240	Sum	12.747	0	12.747	24	Pass
NVNT	ax40	5190	Ant1	9.41	0	9.41	24	Pass
NVNT	ax40	5190	Ant2	9.91	0	9.91	24	Pass
NVNT	ax40	5190	Sum	12.677	0	12.677	24	Pass
NVNT	ax40	5230	Ant1	9.3	0	9.3	24	Pass
NVNT	ax40	5230	Ant2	9.75	0	9.75	24	Pass
NVNT	ax40	5230	Sum	12.541	0	12.541	24	Pass
NVNT	ax80	5210	Ant1	9.55	0	9.55	24	Pass

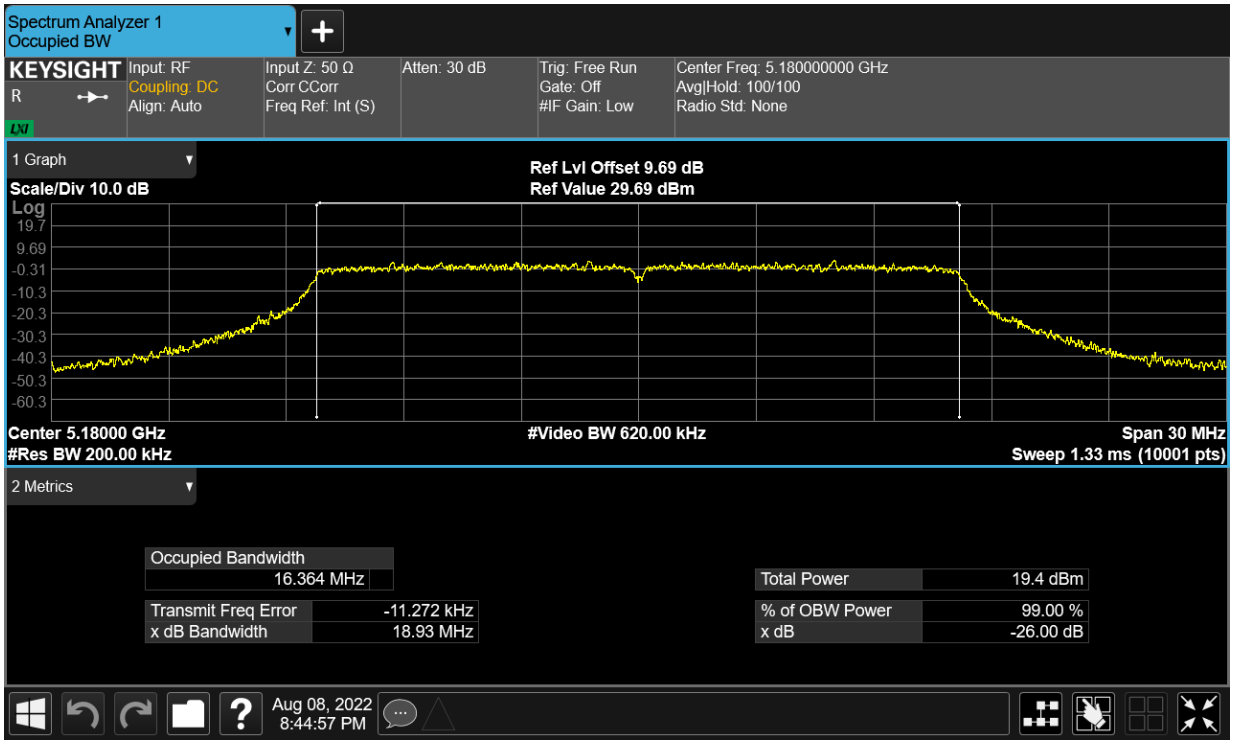
NVNT	ax80	5210	Ant2	9.91	0	9.91	24	Pass
NVNT	ax80	5210	Sum	12.744	0	12.744	24	Pass
NVNT	n20	5180	Ant1	11.4	0	11.4	24	Pass
NVNT	n20	5180	Ant2	11.95	0	11.95	24	Pass
NVNT	n20	5180	Sum	14.694	0	14.694	24	Pass
NVNT	n20	5200	Ant1	11.19	0	11.19	24	Pass
NVNT	n20	5200	Ant2	11.81	0	11.81	24	Pass
NVNT	n20	5200	Sum	14.521	0	14.521	24	Pass
NVNT	n20	5240	Ant1	11.32	0	11.32	24	Pass
NVNT	n20	5240	Ant2	11.46	0	11.46	24	Pass
NVNT	n20	5240	Sum	14.401	0	14.401	24	Pass
NVNT	n40	5190	Ant1	10.39	0	10.39	24	Pass
NVNT	n40	5190	Ant2	10.94	0	10.94	24	Pass
NVNT	n40	5190	Sum	13.684	0	13.684	24	Pass
NVNT	n40	5230	Ant1	10.15	0	10.15	24	Pass
NVNT	n40	5230	Ant2	10.55	0	10.55	24	Pass
NVNT	n40	5230	Sum	13.365	0	13.365	24	Pass

Occupied Channel Bandwidth

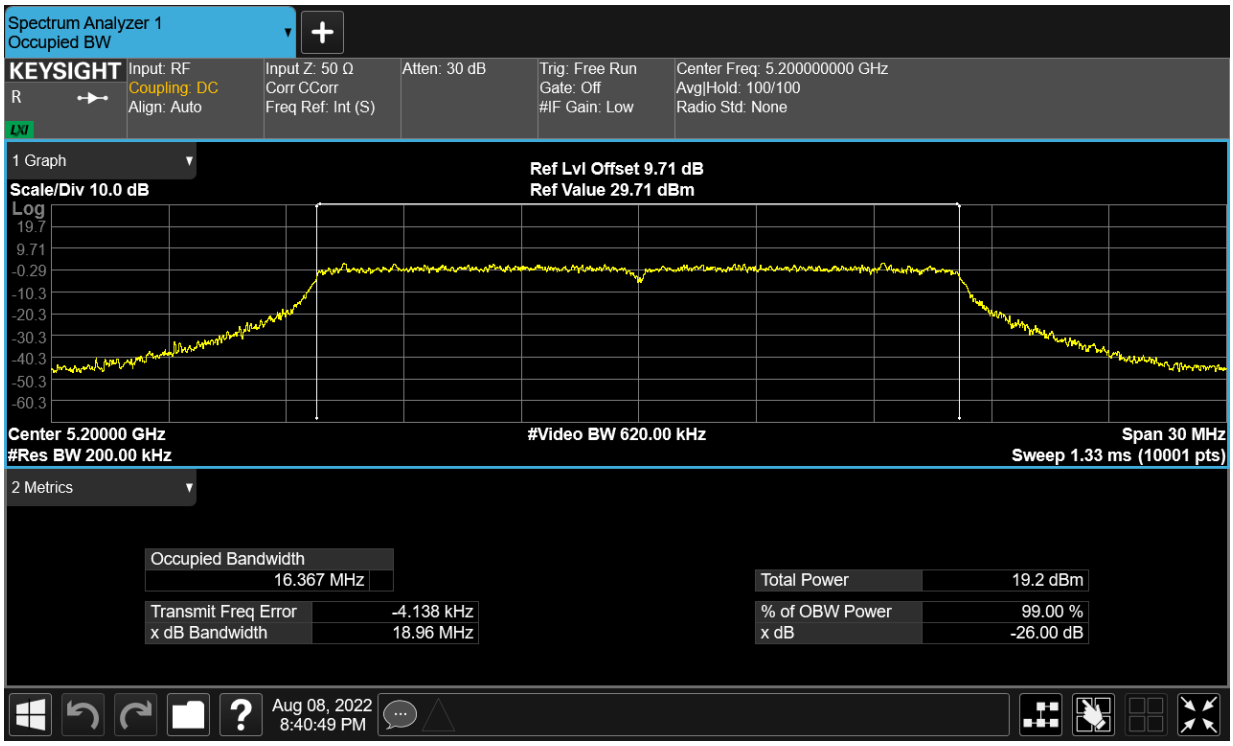
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.36357389
NVNT	a	5200	Ant1	16.36698135
NVNT	a	5240	Ant1	16.36857192
NVNT	a	5180	Ant2	16.37969193
NVNT	a	5200	Ant2	16.38426994
NVNT	a	5240	Ant2	16.37073709
NVNT	ac20	5180	Ant1	17.56636031
NVNT	ac20	5180	Ant2	17.56892271
NVNT	ac20	5200	Ant1	17.57784562
NVNT	ac20	5200	Ant2	17.58866167
NVNT	ac20	5240	Ant1	17.56711375
NVNT	ac20	5240	Ant2	17.55988058
NVNT	ac40	5190	Ant1	36.070155
NVNT	ac40	5190	Ant2	36.04914679
NVNT	ac40	5230	Ant1	36.06927865
NVNT	ac40	5230	Ant2	36.04118139
NVNT	ac80	5210	Ant1	75.4608074
NVNT	ac80	5210	Ant2	75.45758786
NVNT	ax20	5180	Ant1	18.91048206
NVNT	ax20	5180	Ant2	18.93083901
NVNT	ax20	5200	Ant1	18.93202309
NVNT	ax20	5200	Ant2	18.9163392
NVNT	ax20	5240	Ant1	18.92716952
NVNT	ax20	5240	Ant2	18.88652975
NVNT	ax40	5190	Ant1	37.77998682
NVNT	ax40	5190	Ant2	37.77127036
NVNT	ax40	5230	Ant1	37.72948868
NVNT	ax40	5230	Ant2	37.68340394
NVNT	ax80	5210	Ant1	77.19074902
NVNT	ax80	5210	Ant2	77.12969466
NVNT	n20	5180	Ant1	17.57108668
NVNT	n20	5180	Ant2	17.5626519
NVNT	n20	5200	Ant1	17.57181662
NVNT	n20	5200	Ant2	17.55876738
NVNT	n20	5240	Ant1	17.57601833
NVNT	n20	5240	Ant2	17.56369024
NVNT	n40	5190	Ant1	36.06607076
NVNT	n40	5190	Ant2	36.0374576
NVNT	n40	5230	Ant1	36.03976414
NVNT	n40	5230	Ant2	36.07272546

Test Graphs

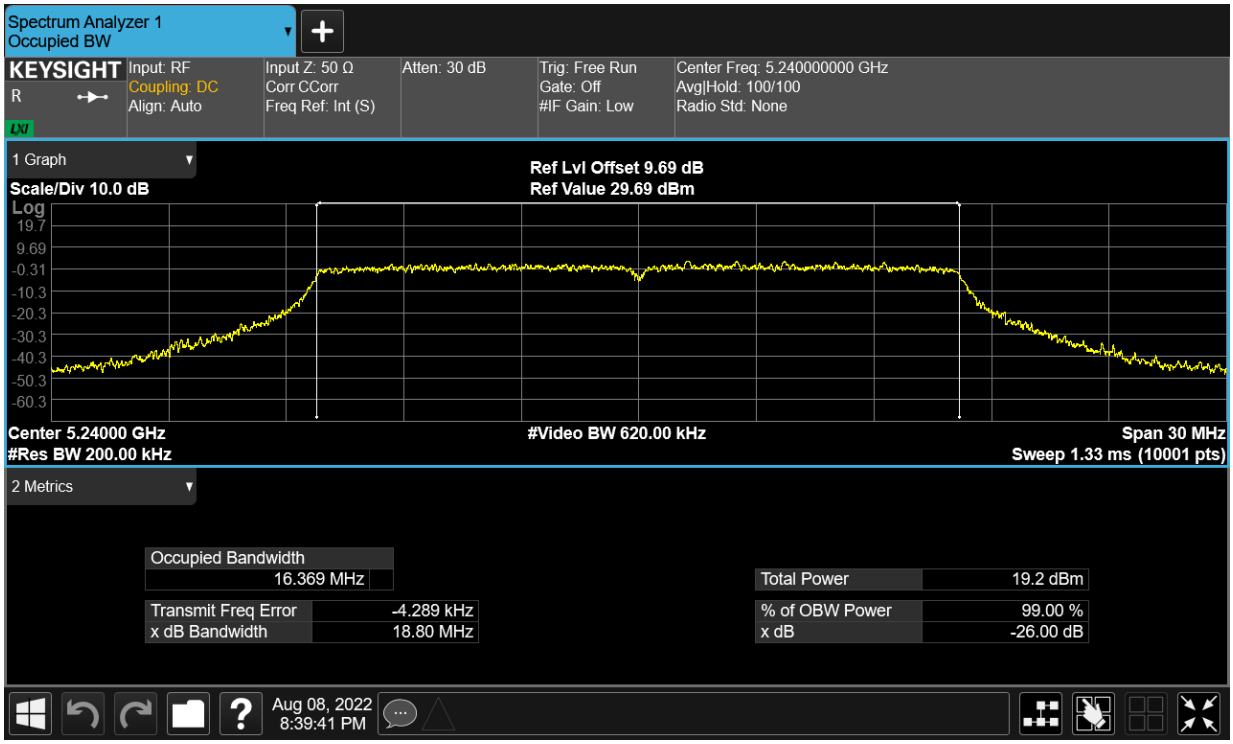
OBW NVNT a 5180MHz Ant1



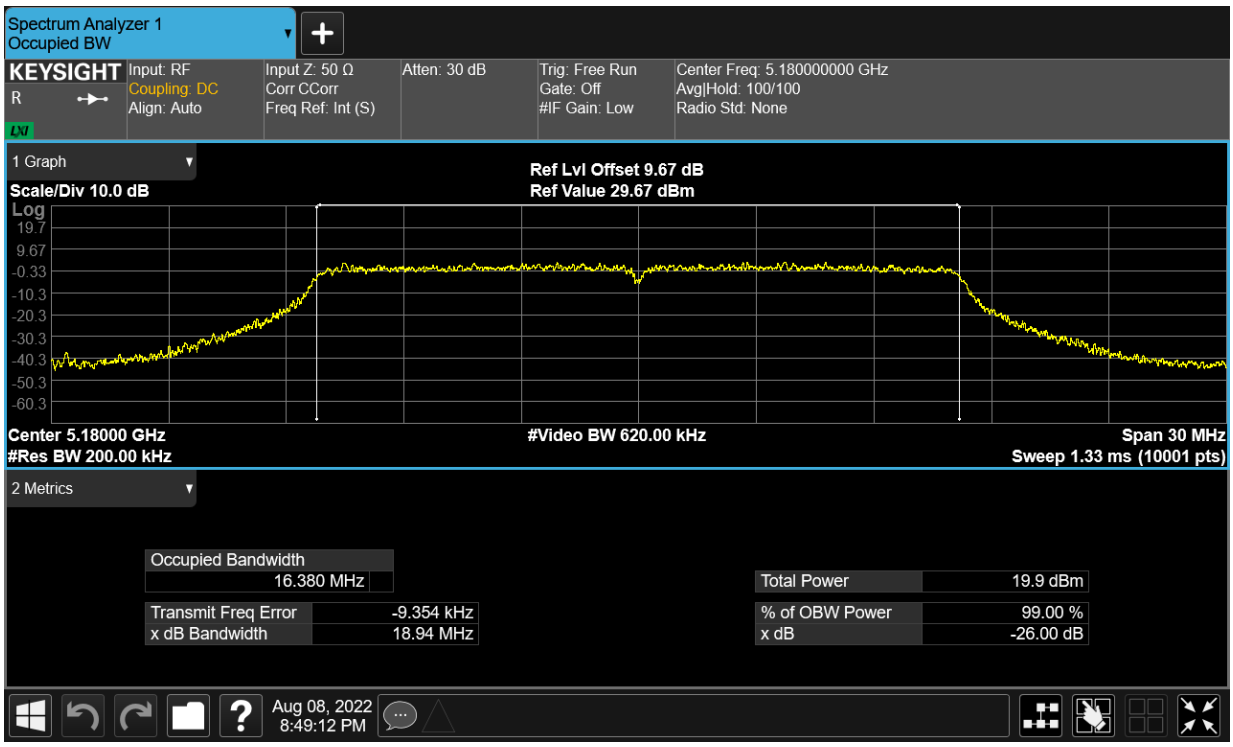
OBW NVNT a 5200MHz Ant1



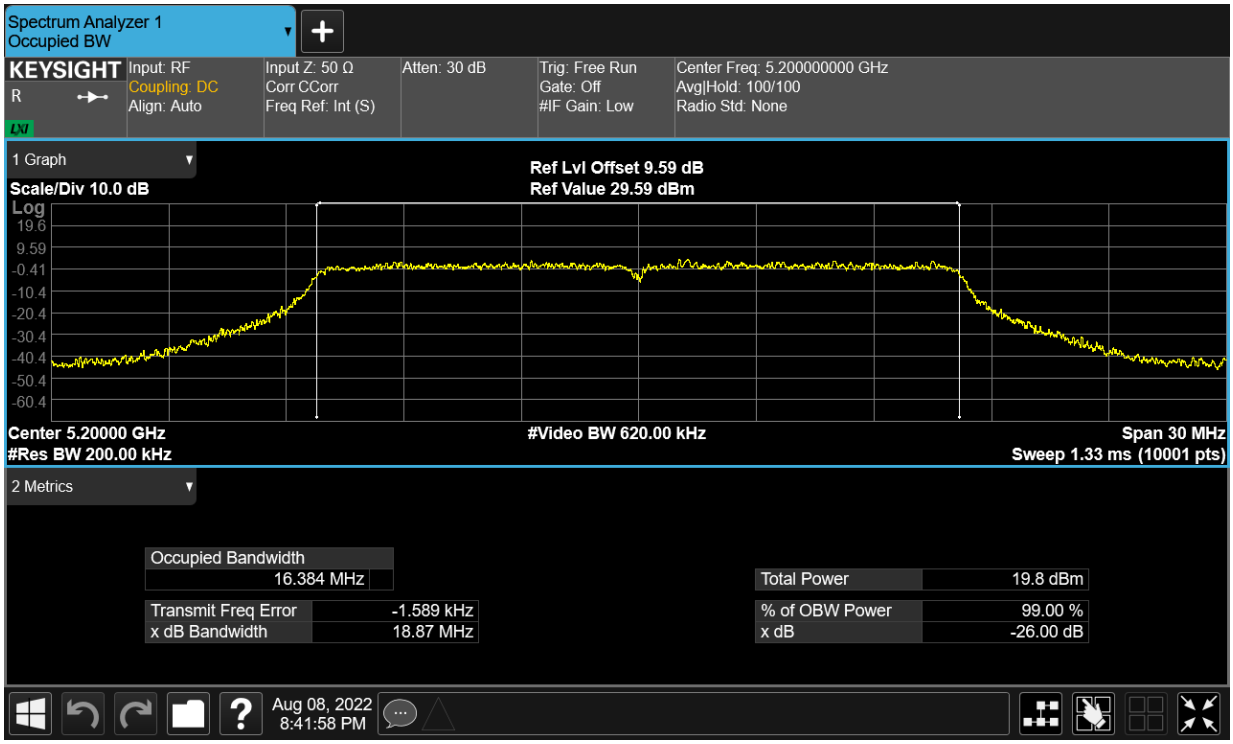
OBW NVNT a 5240MHz Ant1



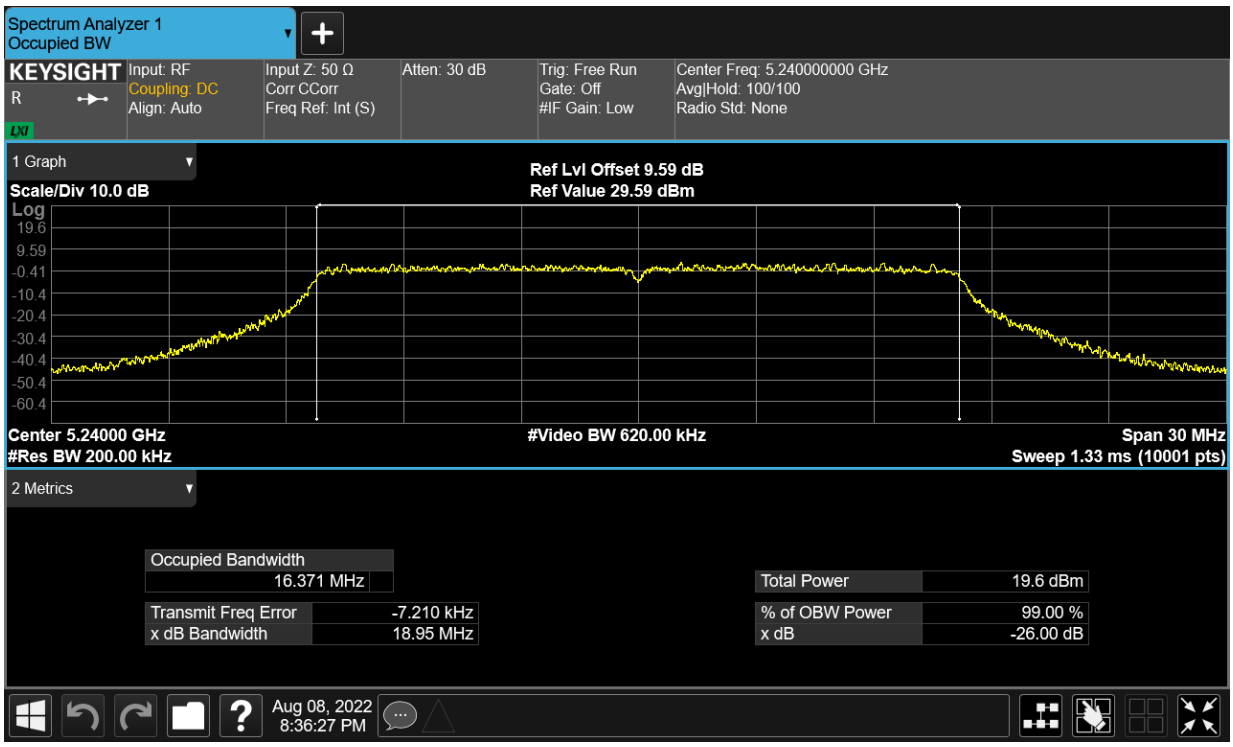
OBW NVNT a 5180MHz Ant2



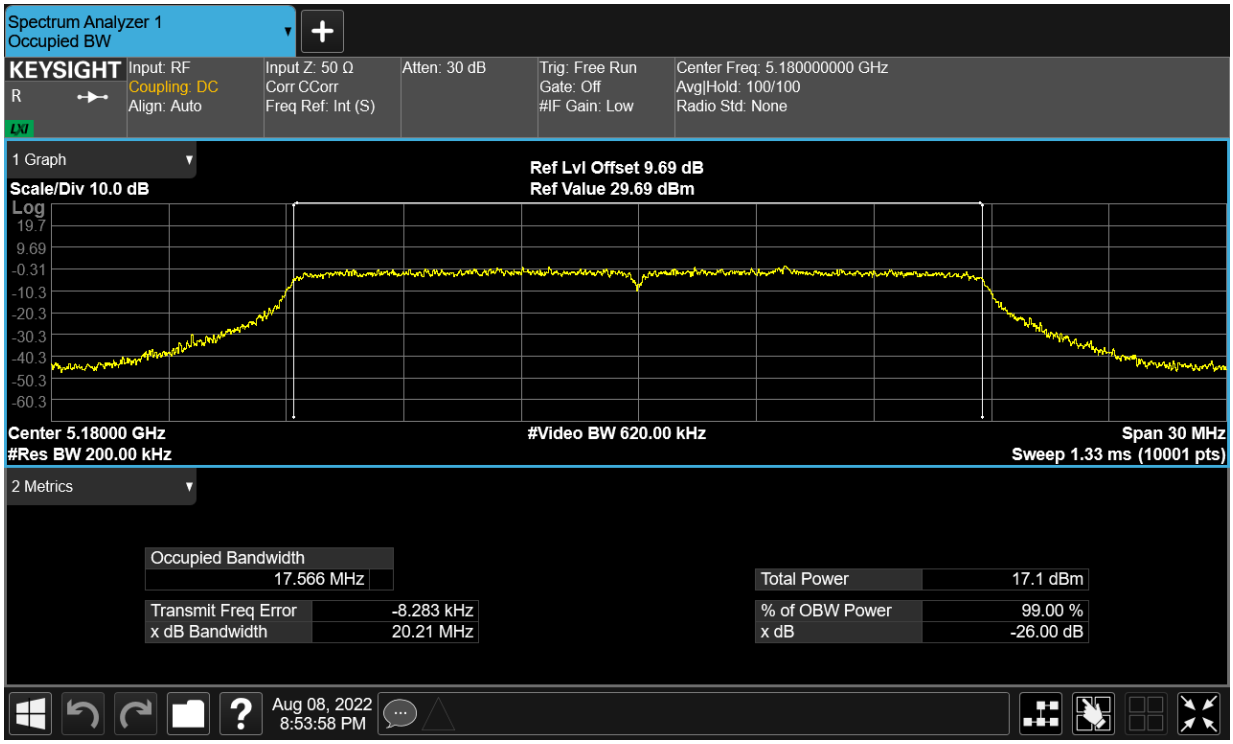
OBW NVNT a 5200MHz Ant2



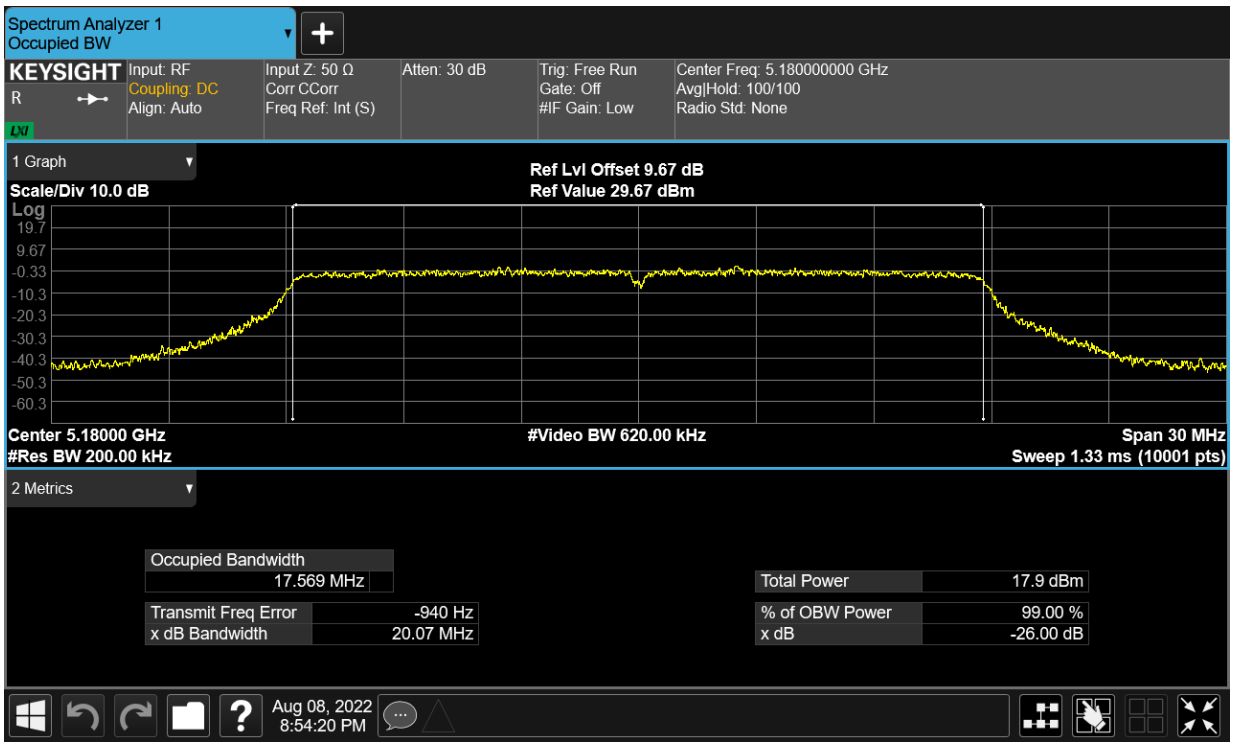
OBW NVNT a 5240MHz Ant2



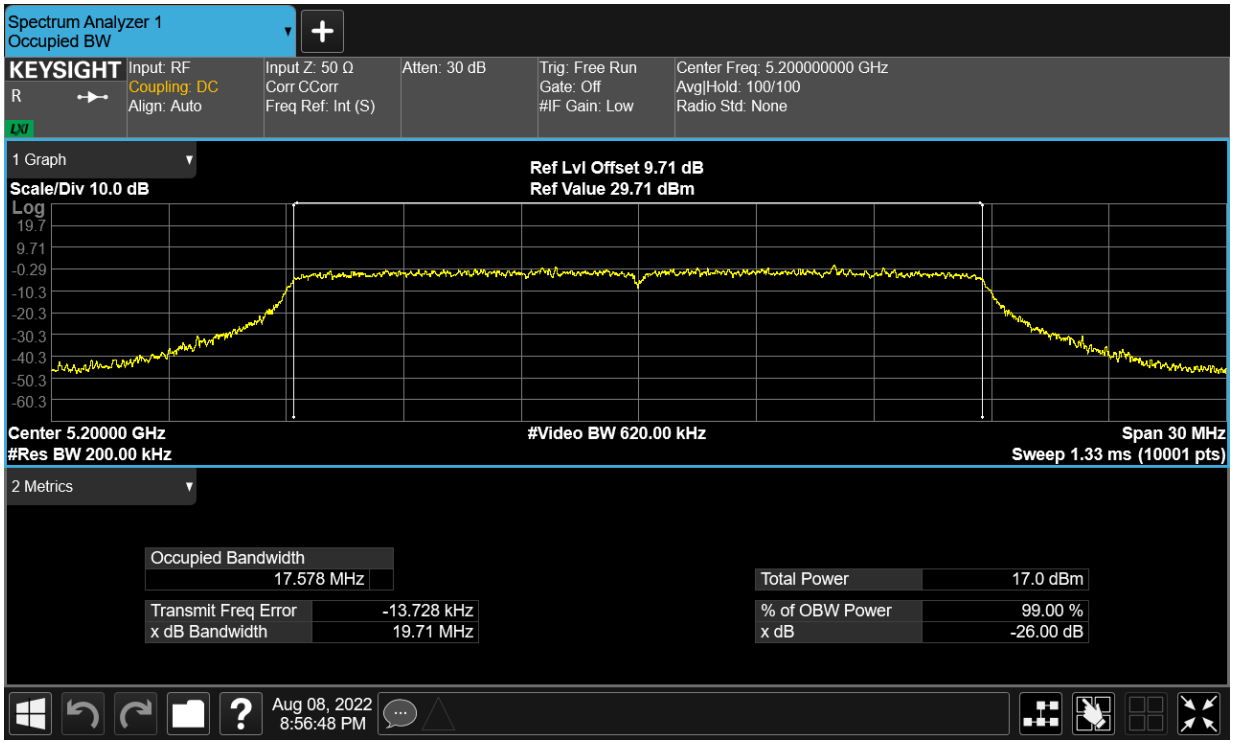
OBW NVNT ac20 5180MHz Ant1



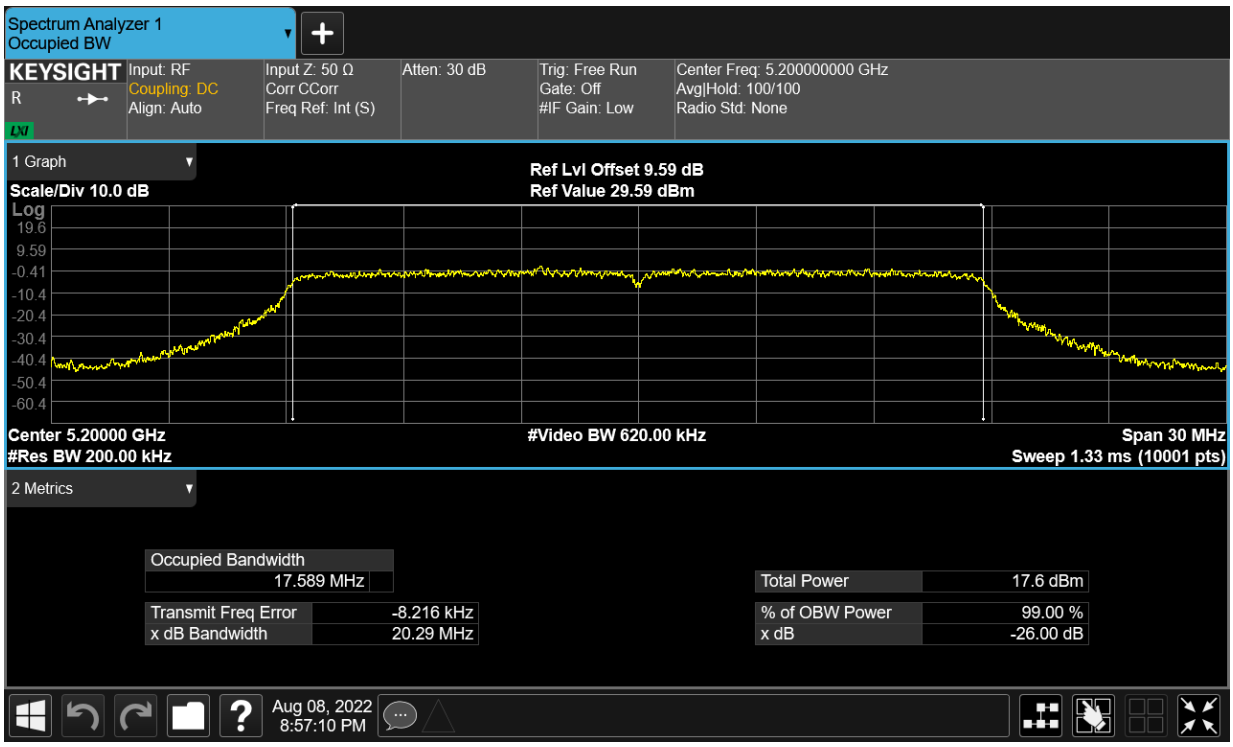
OBW NVNT ac20 5180MHz Ant2



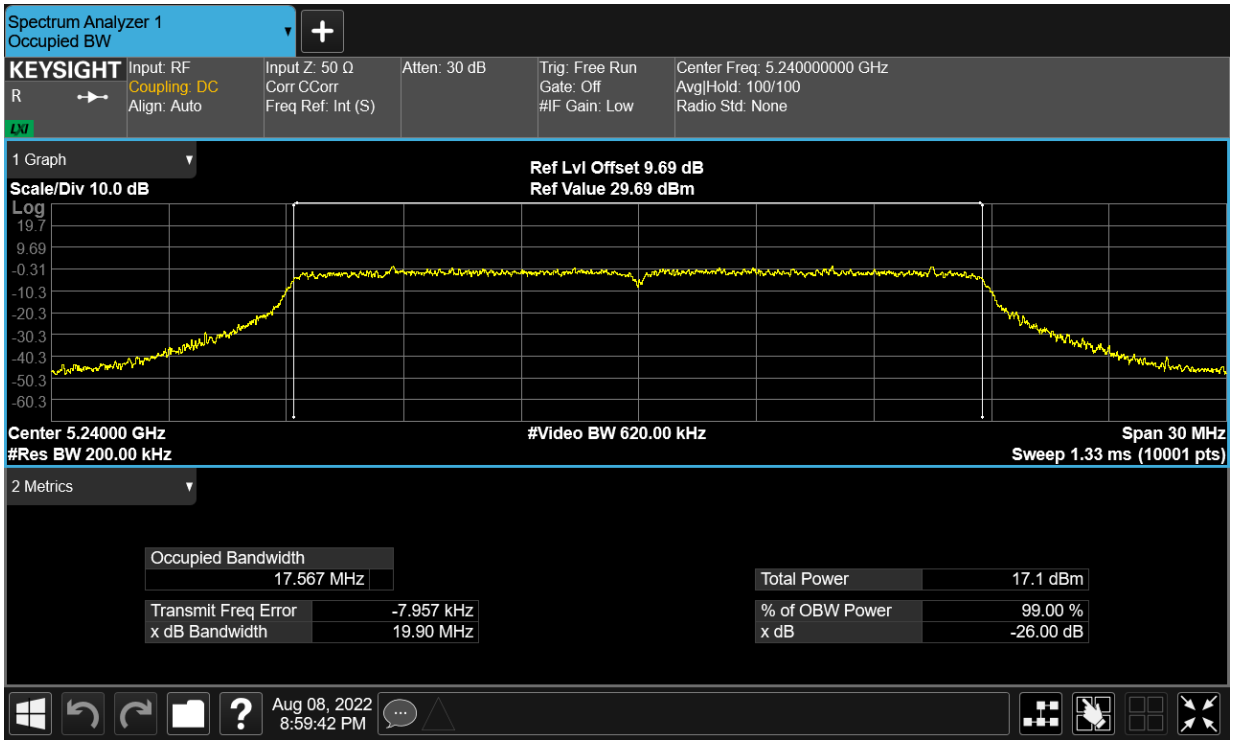
OBW NVNT ac20 5200MHz Ant1



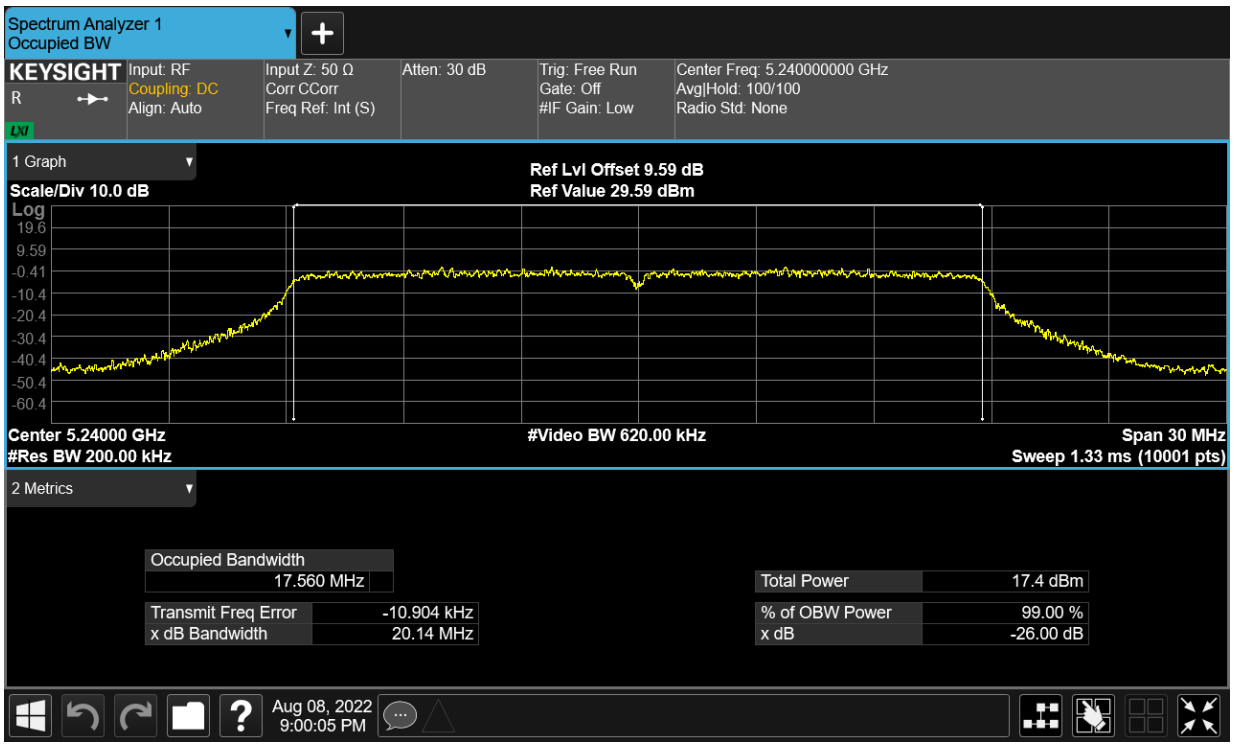
OBW NVNT ac20 5200MHz Ant2



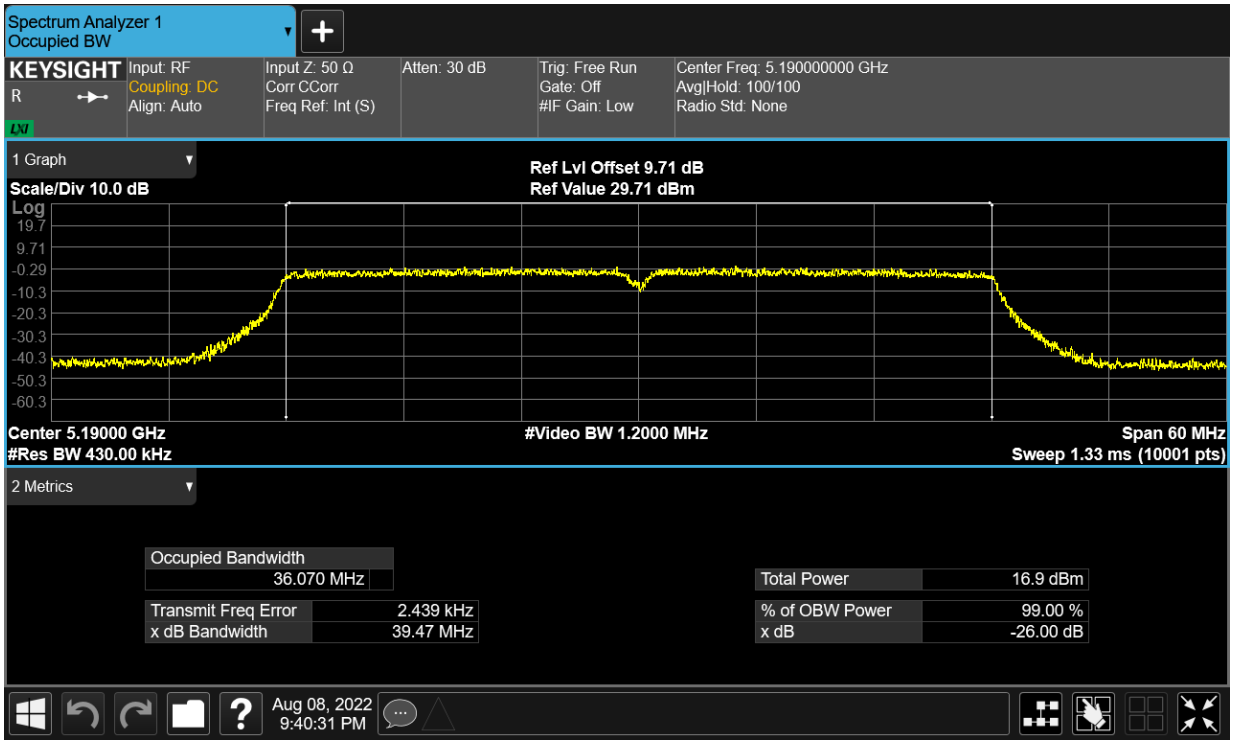
OBW NVNT ac20 5240MHz Ant1



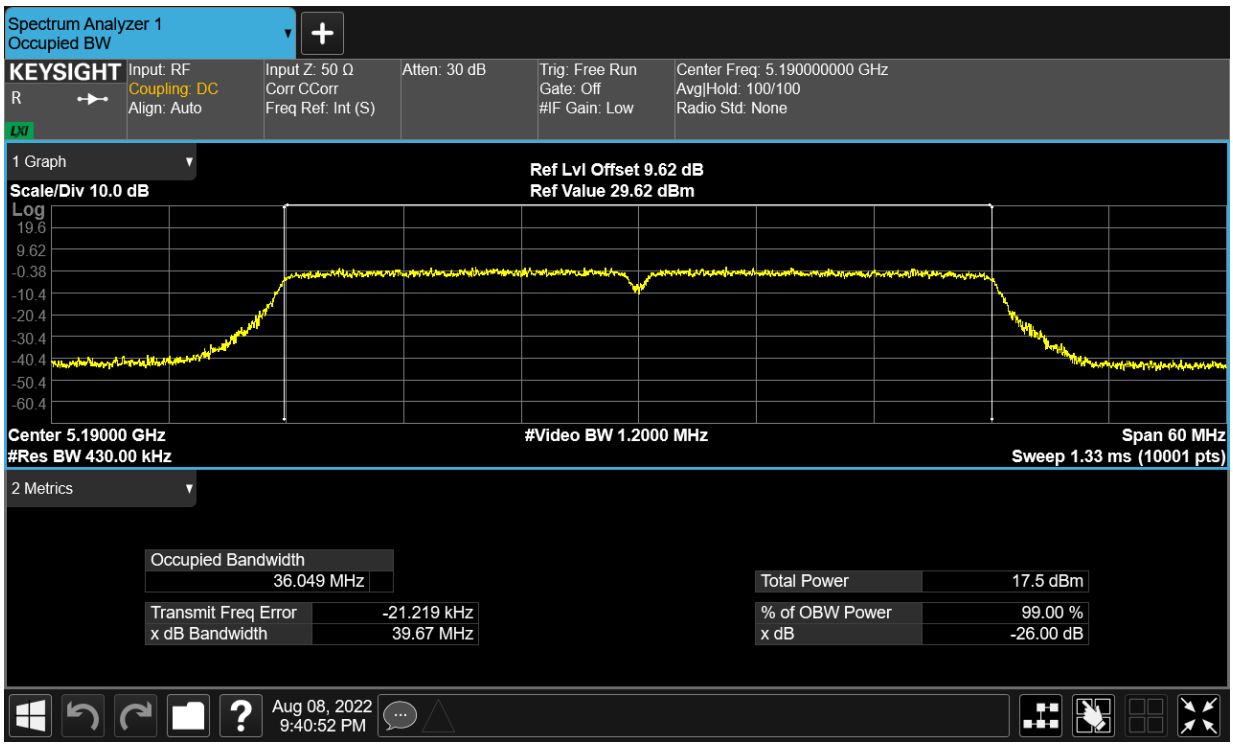
OBW NVNT ac20 5240MHz Ant2



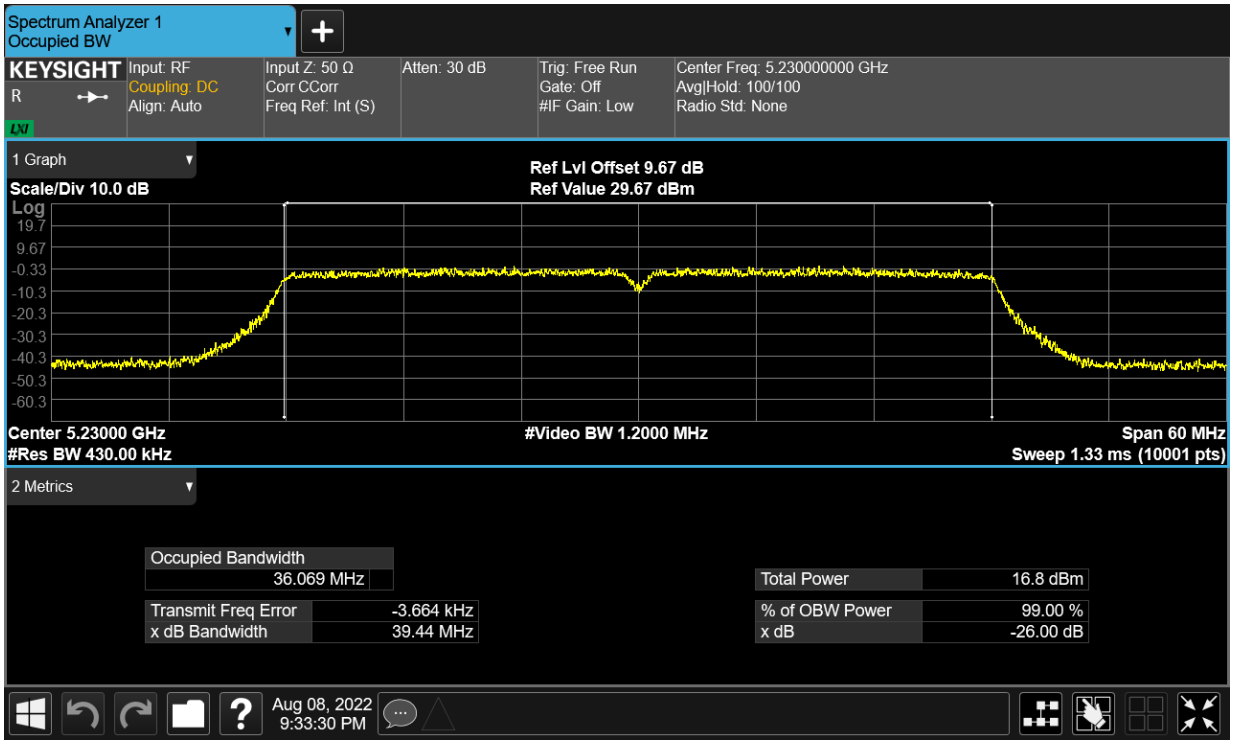
OBW NVNT ac40 5190MHz Ant1



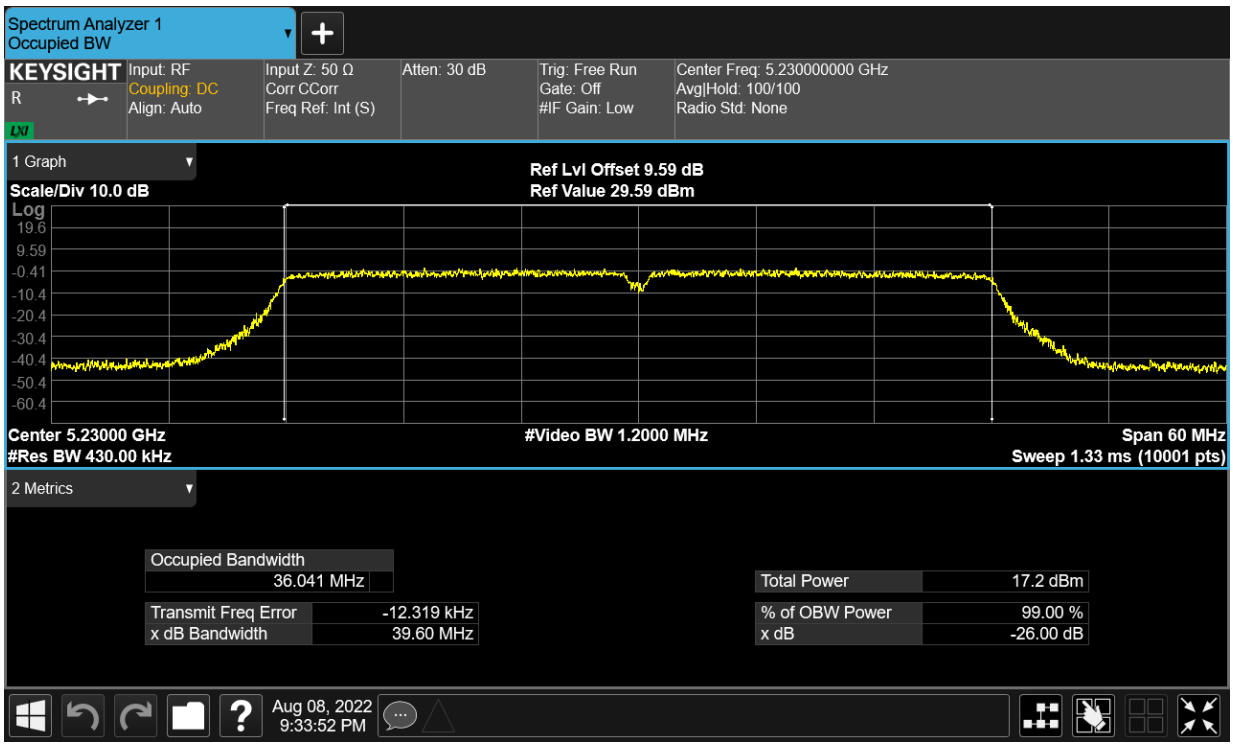
OBW NVNT ac40 5190MHz Ant2



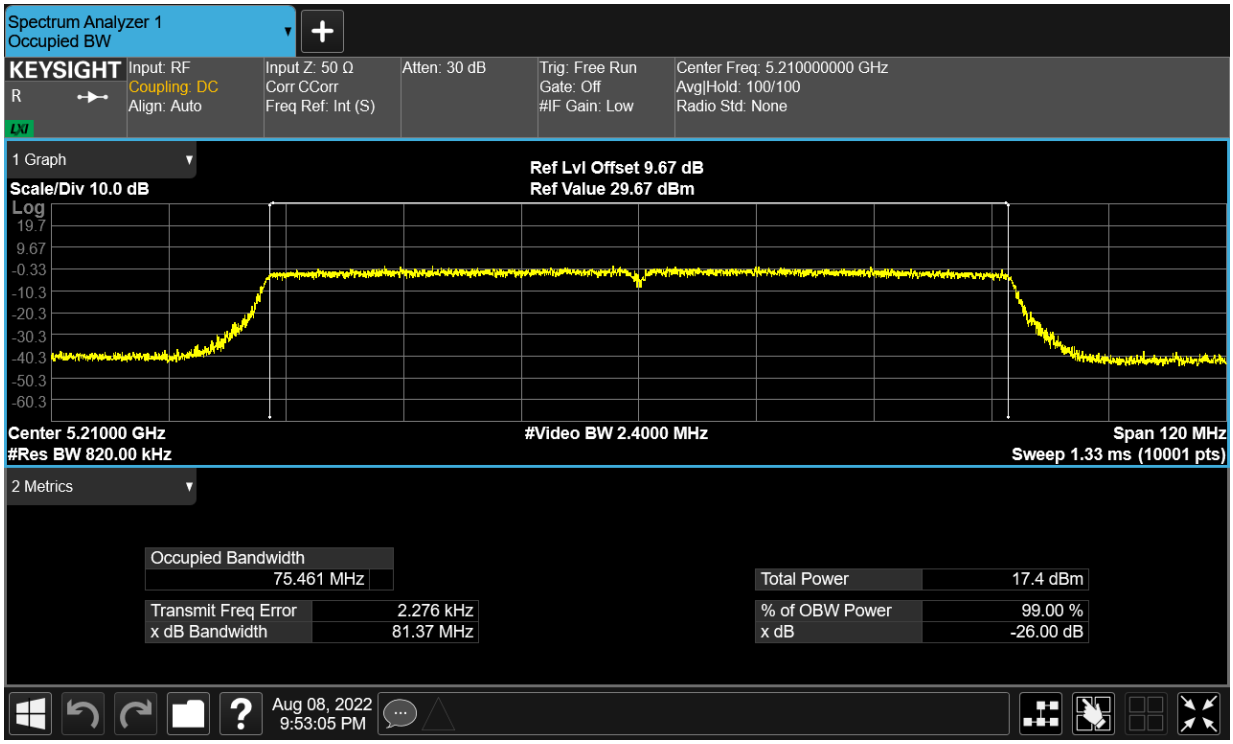
OBW NVNT ac40 5230MHz Ant1



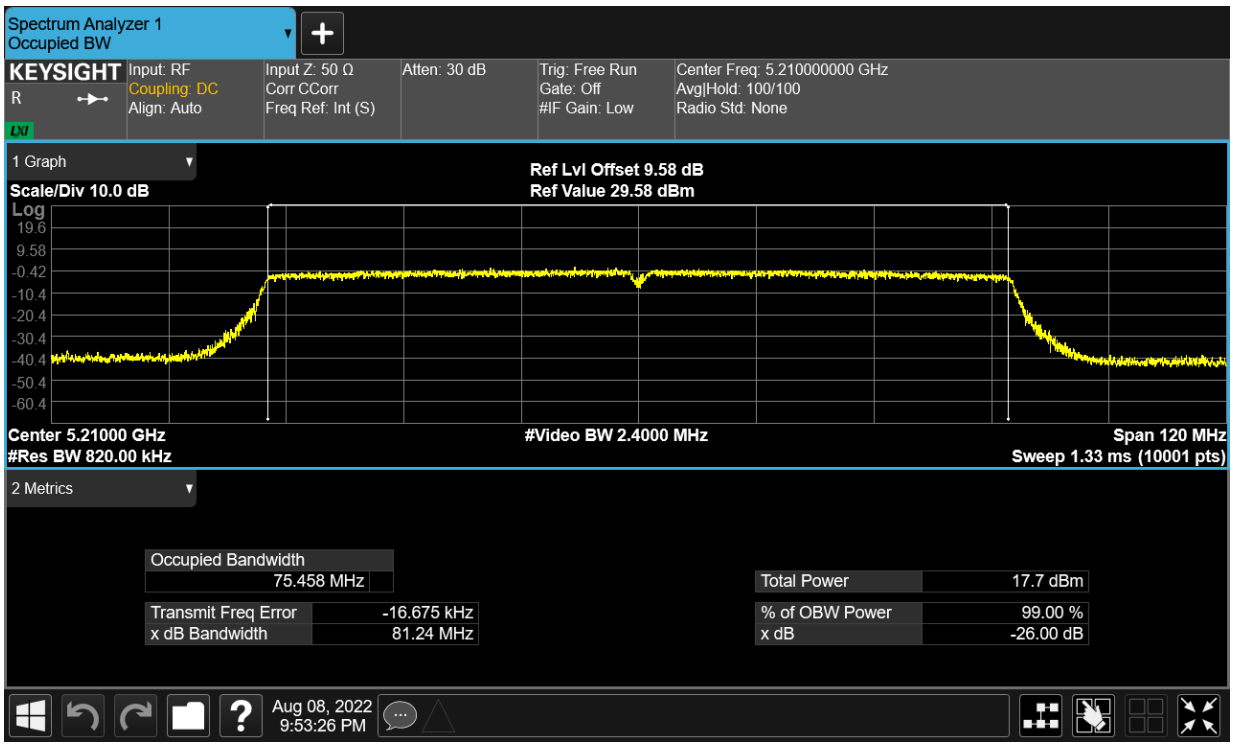
OBW NVNT ac40 5230MHz Ant2



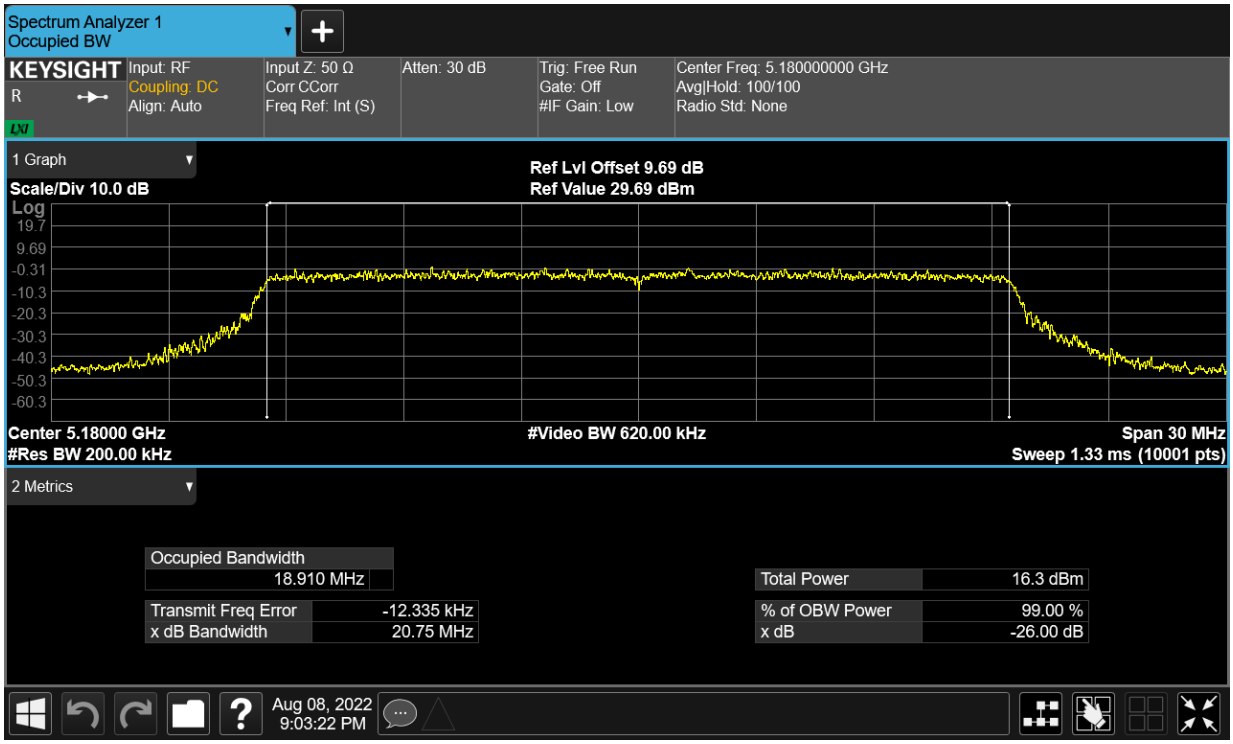
OBW NVNT ac80 5210MHz Ant1



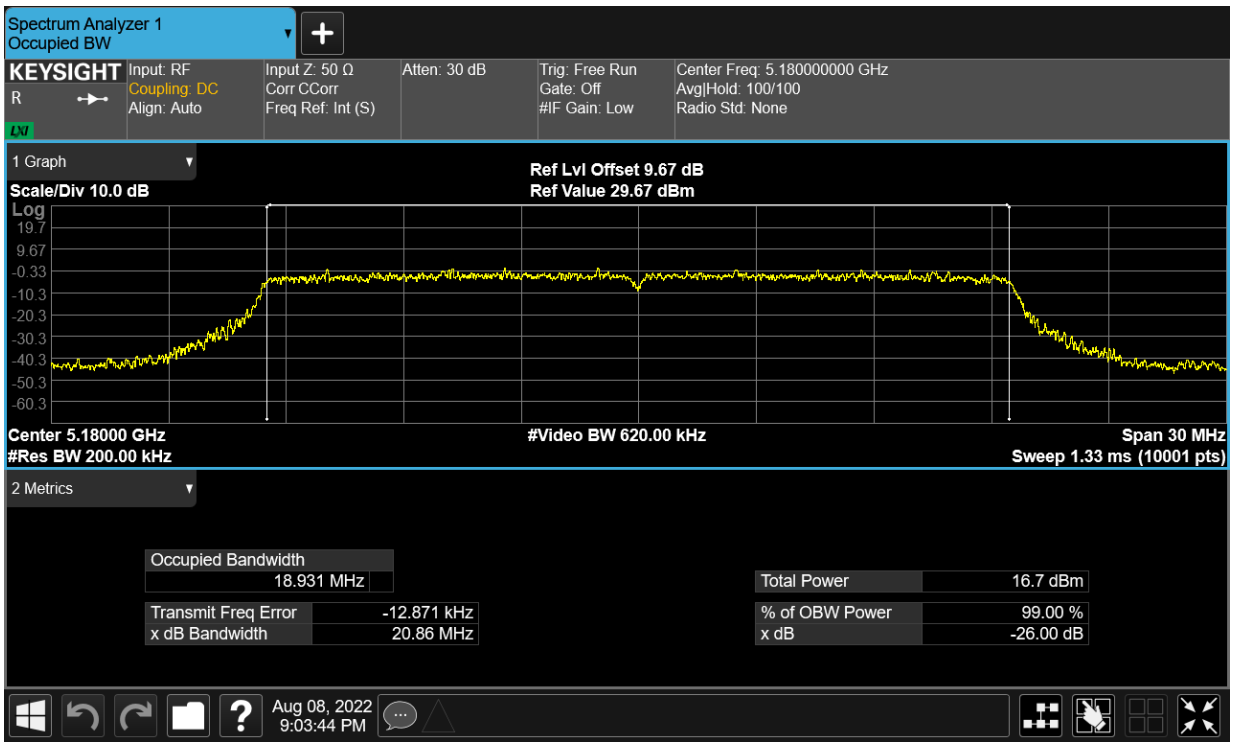
OBW NVNT ac80 5210MHz Ant2



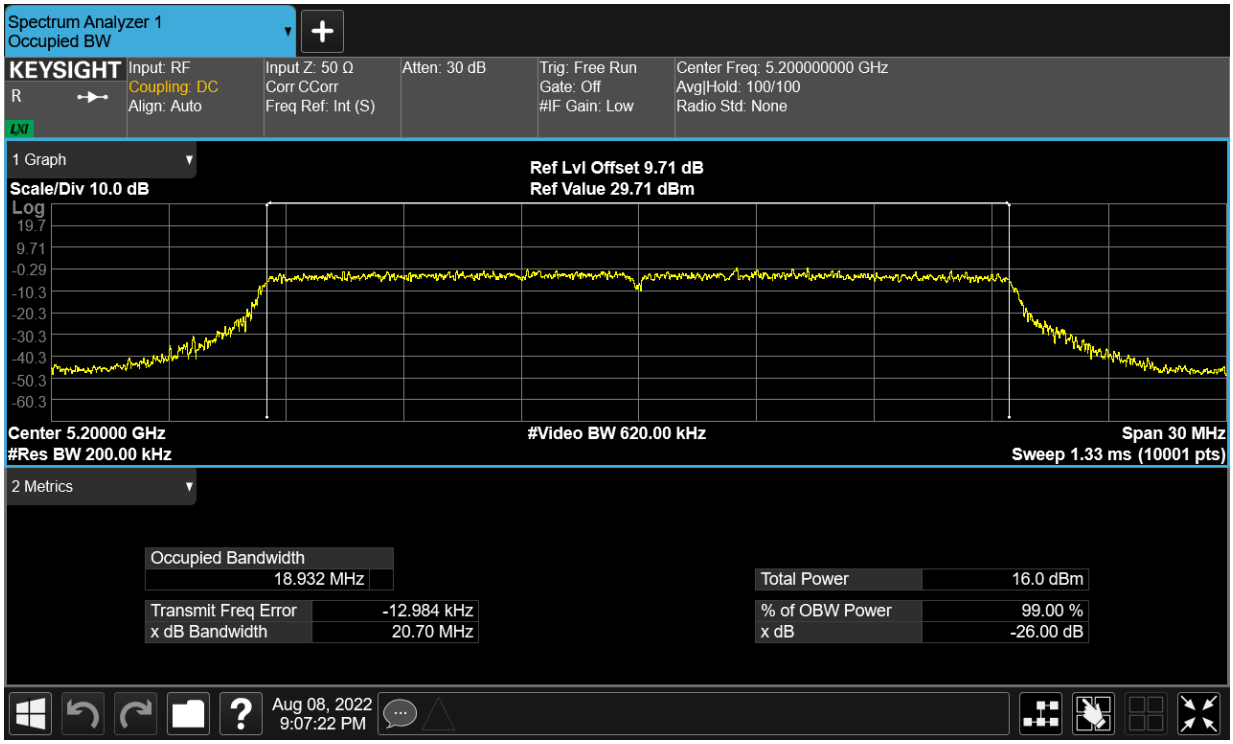
OBW NVNT ax20 5180MHz Ant1



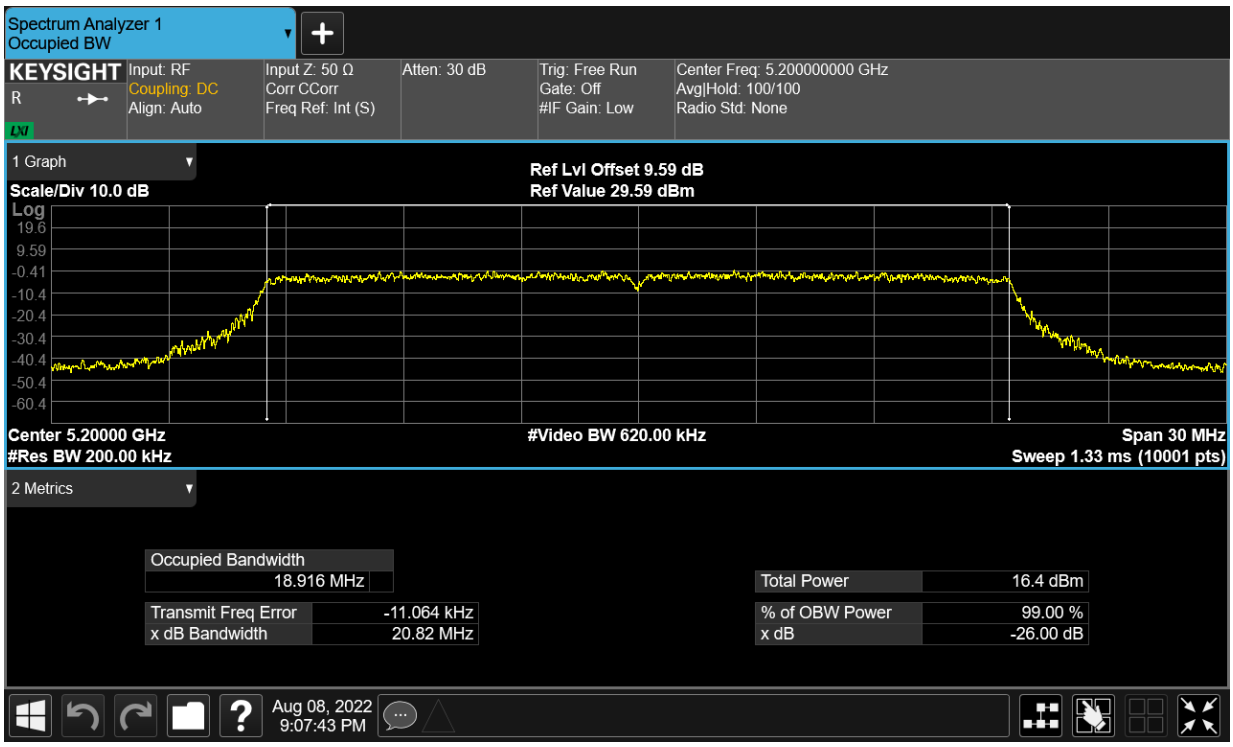
OBW NVNT ax20 5180MHz Ant2



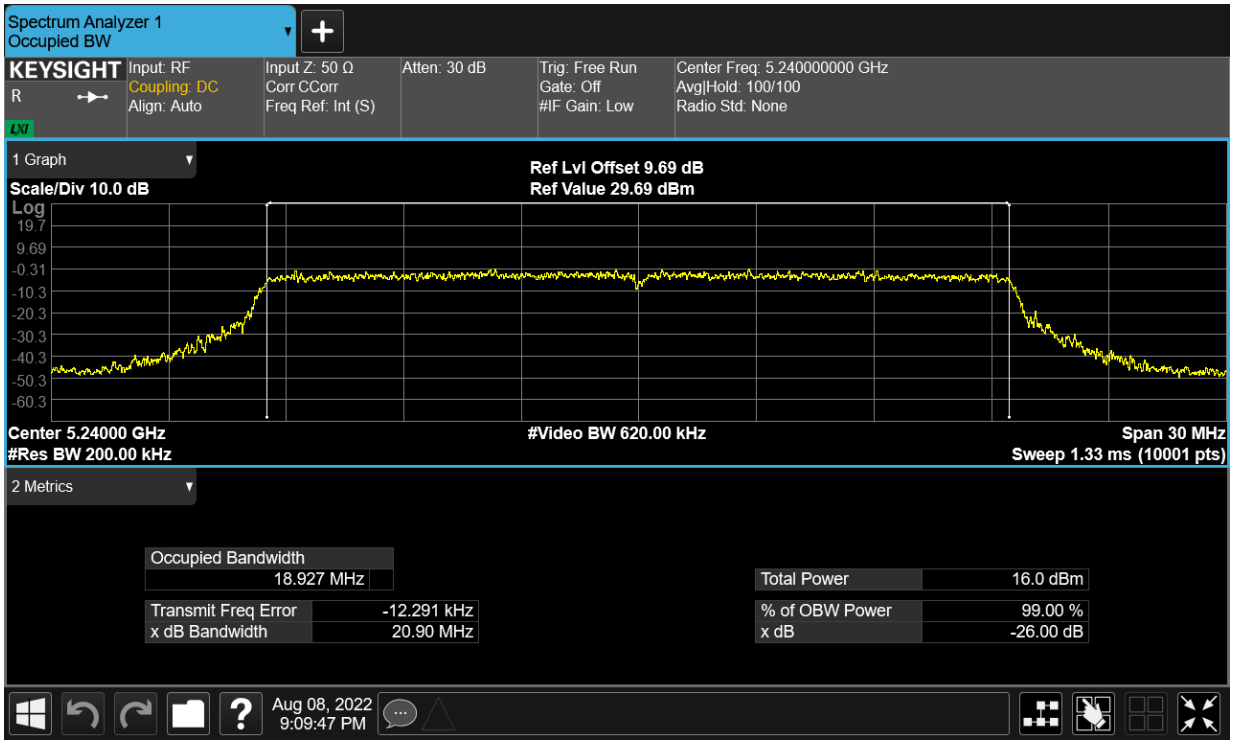
OBW NVNT ax20 5200MHz Ant1



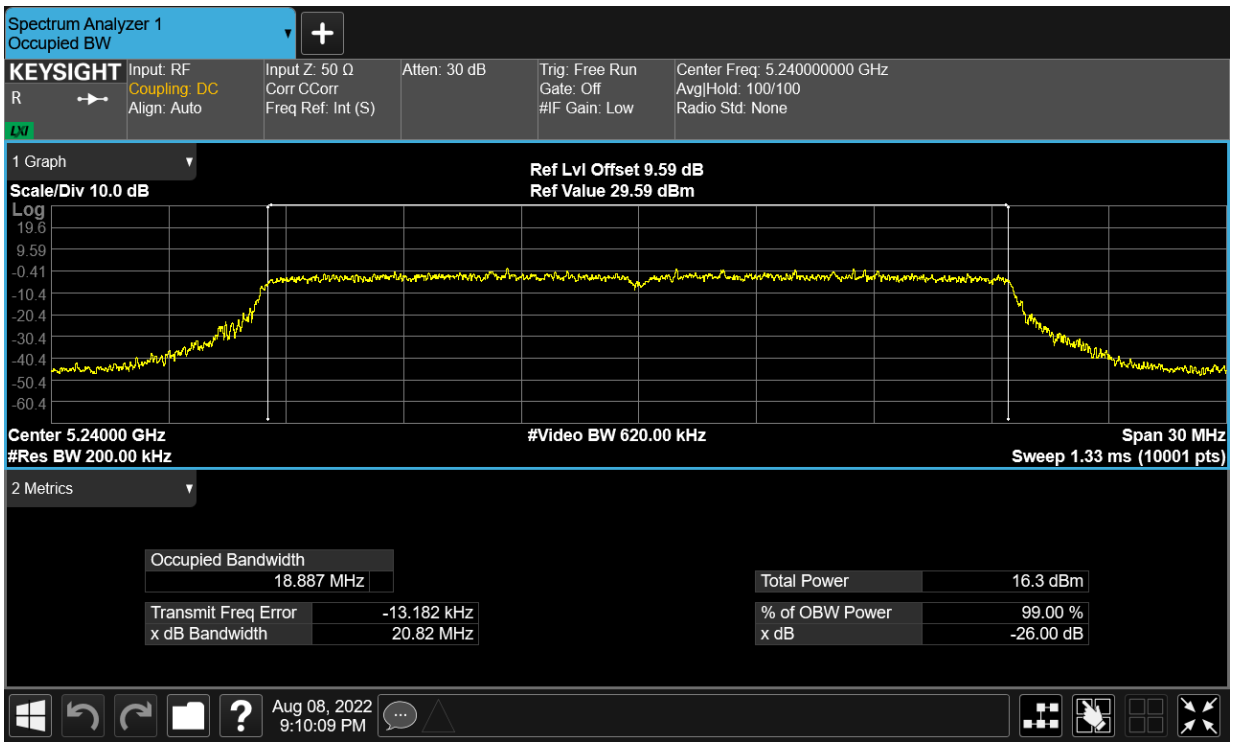
OBW NVNT ax20 5200MHz Ant2



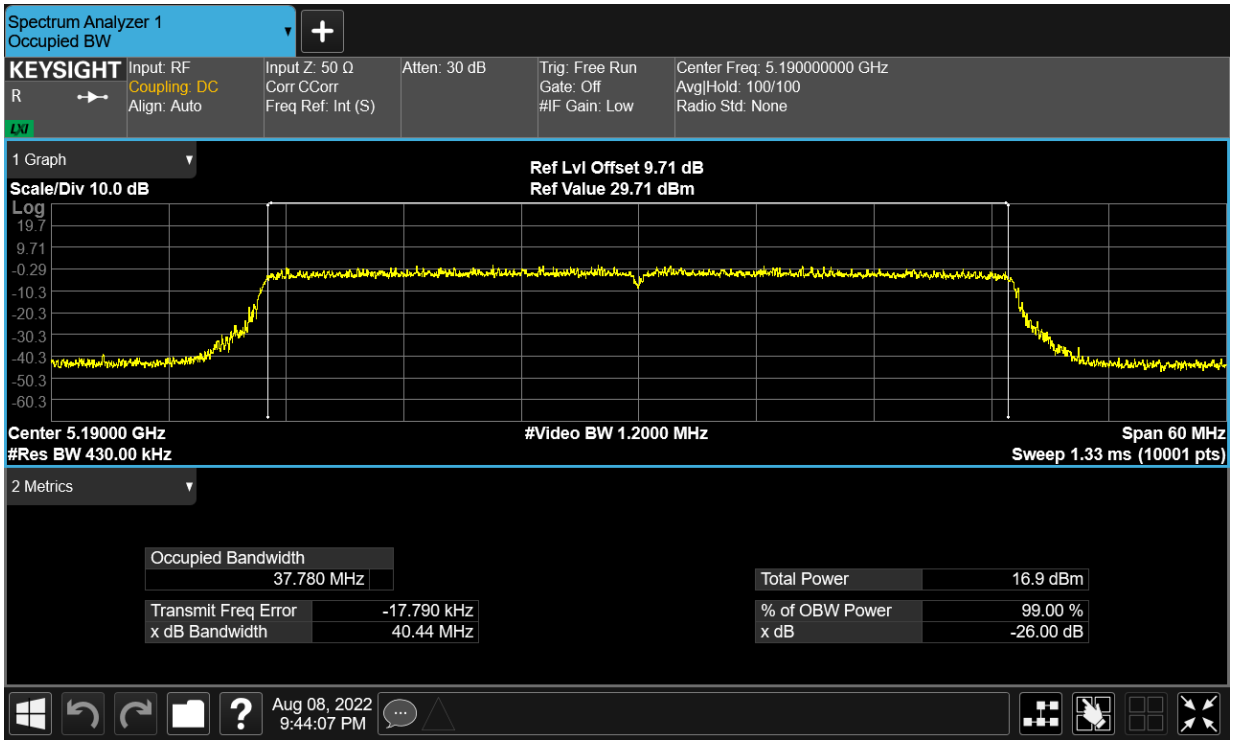
OBW NVNT ax20 5240MHz Ant1



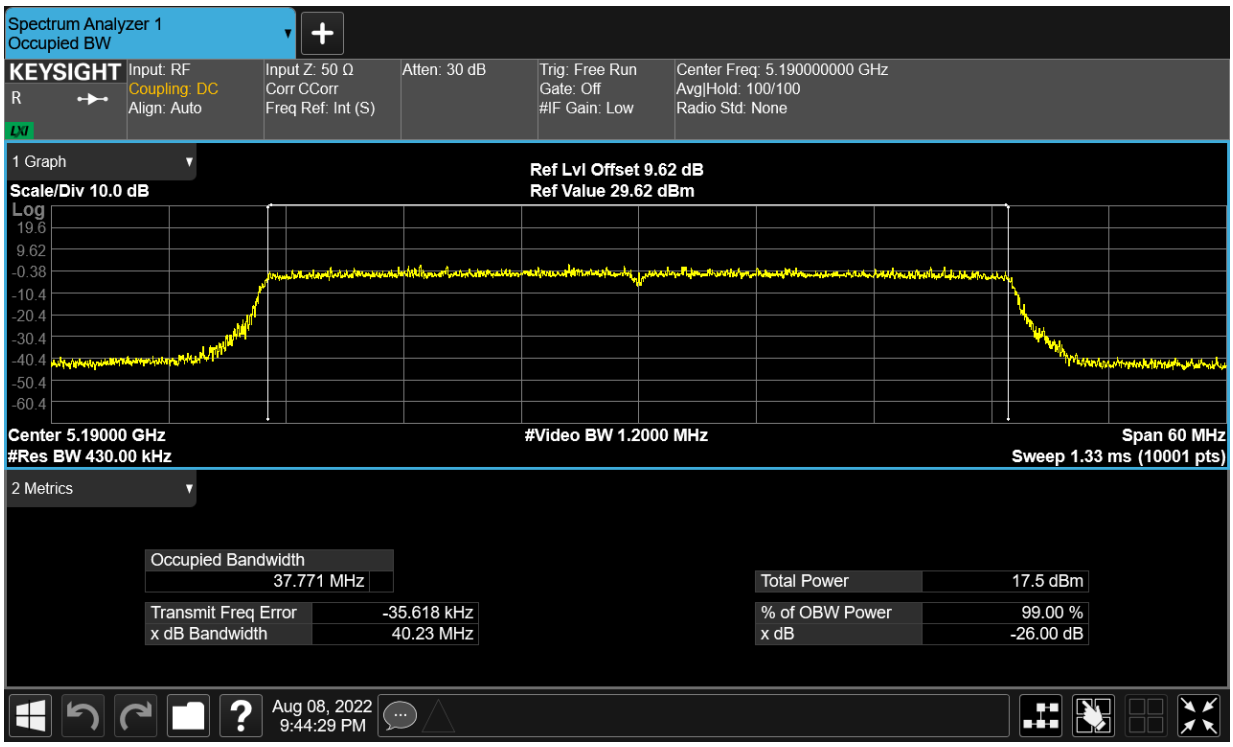
OBW NVNT ax20 5240MHz Ant2



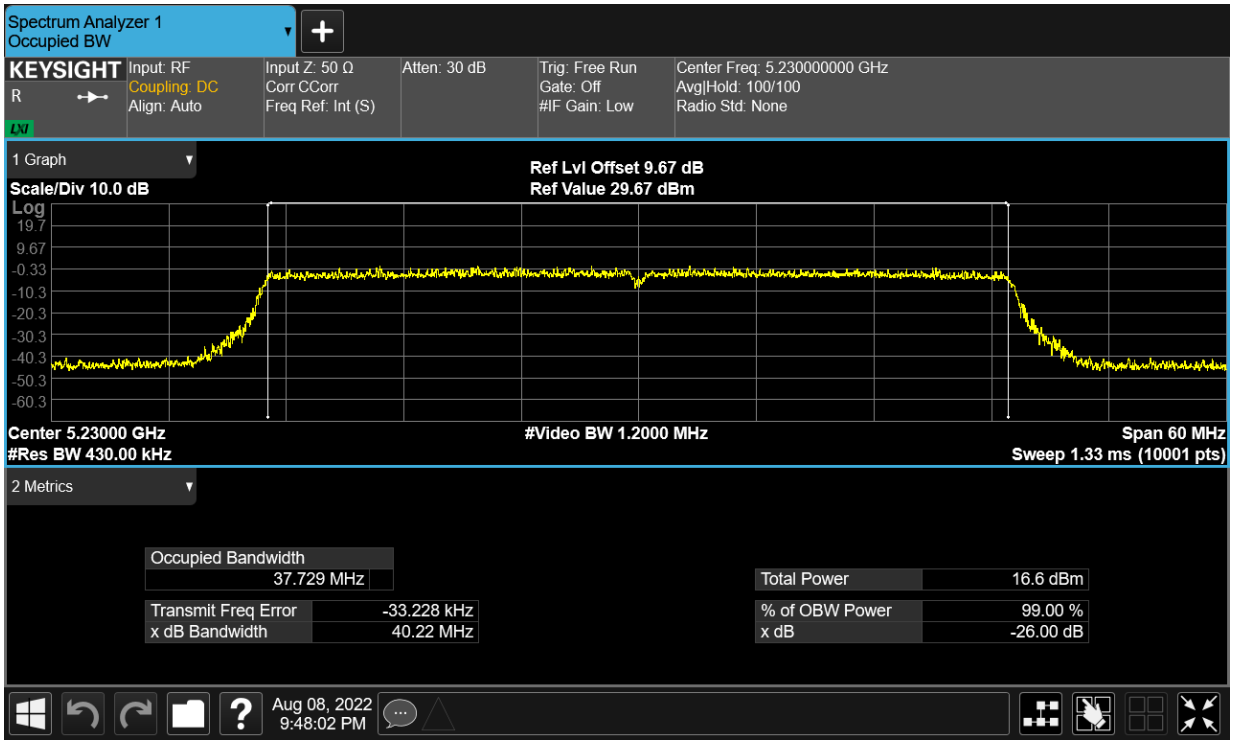
OBW NVNT ax40 5190MHz Ant1



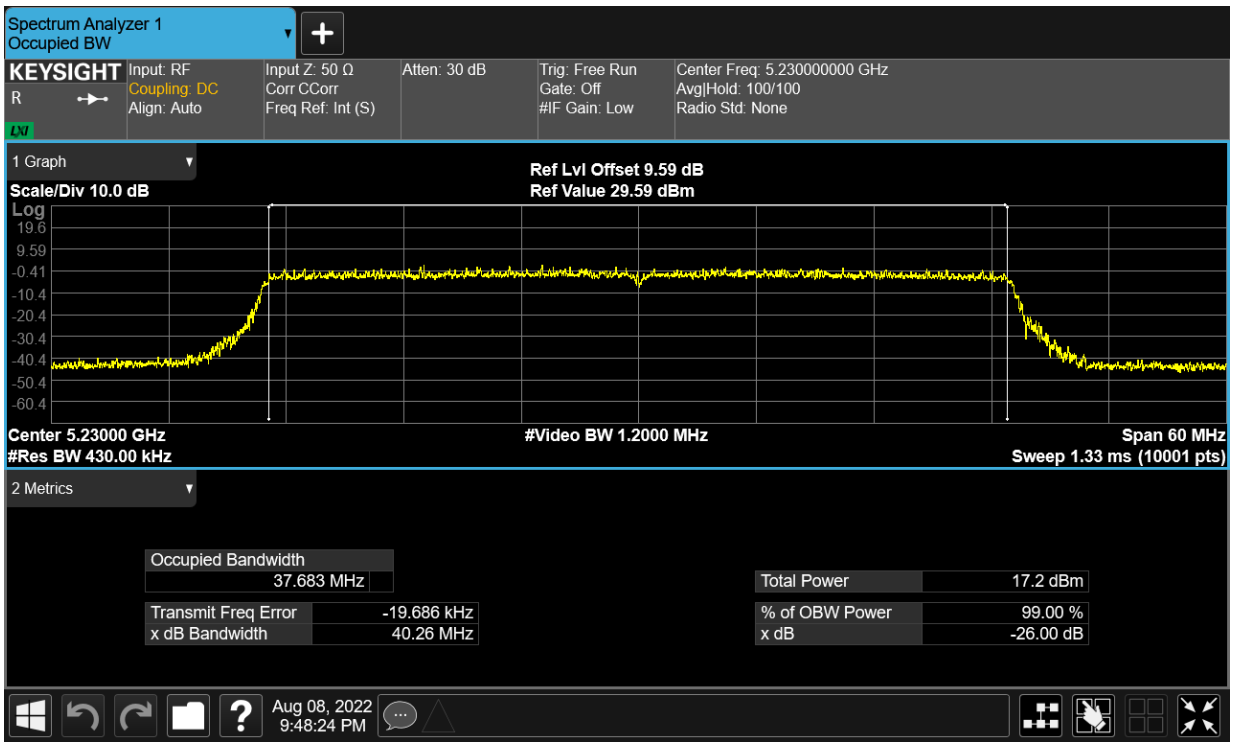
OBW NVNT ax40 5190MHz Ant2



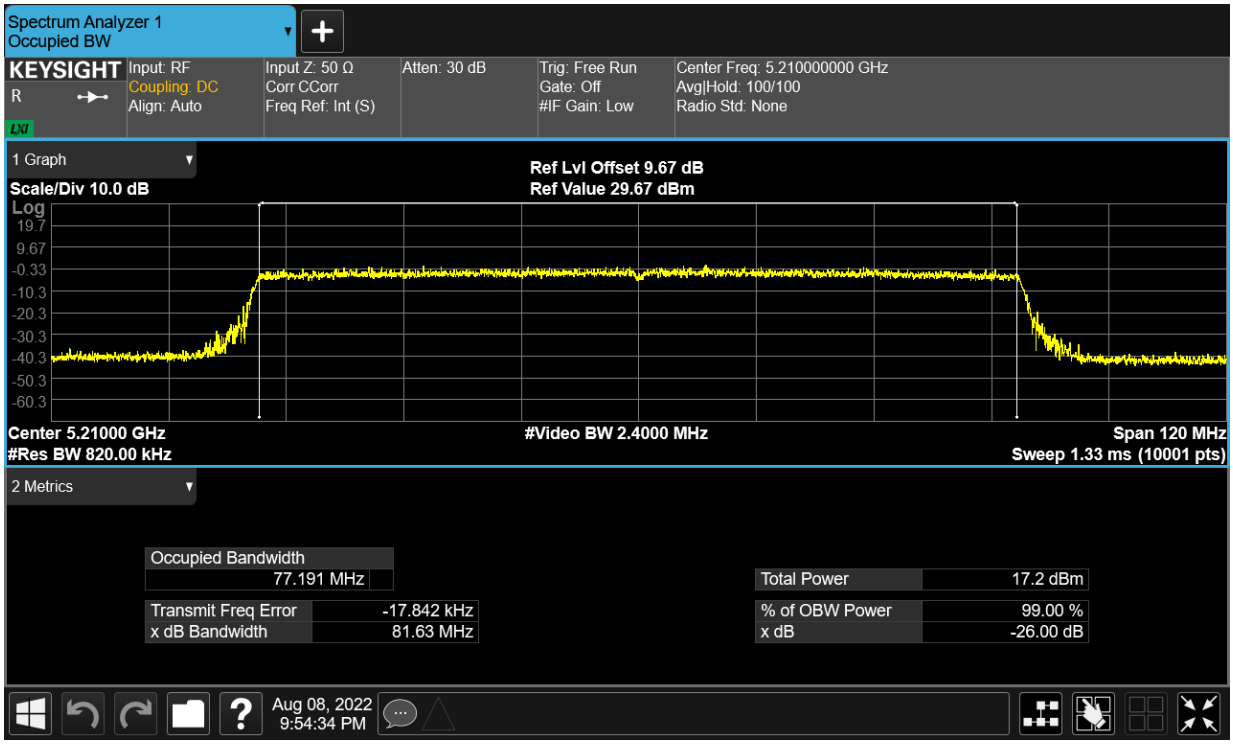
OBW NVNT ax40 5230MHz Ant1



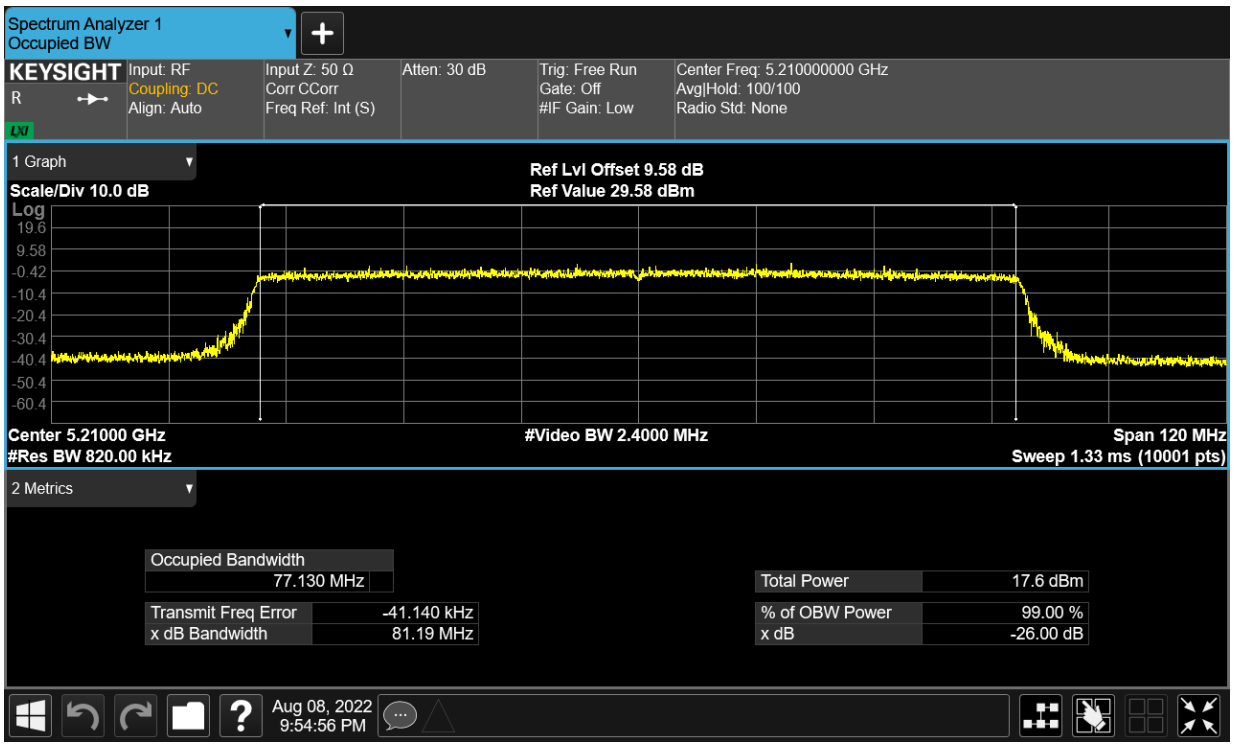
OBW NVNT ax40 5230MHz Ant2



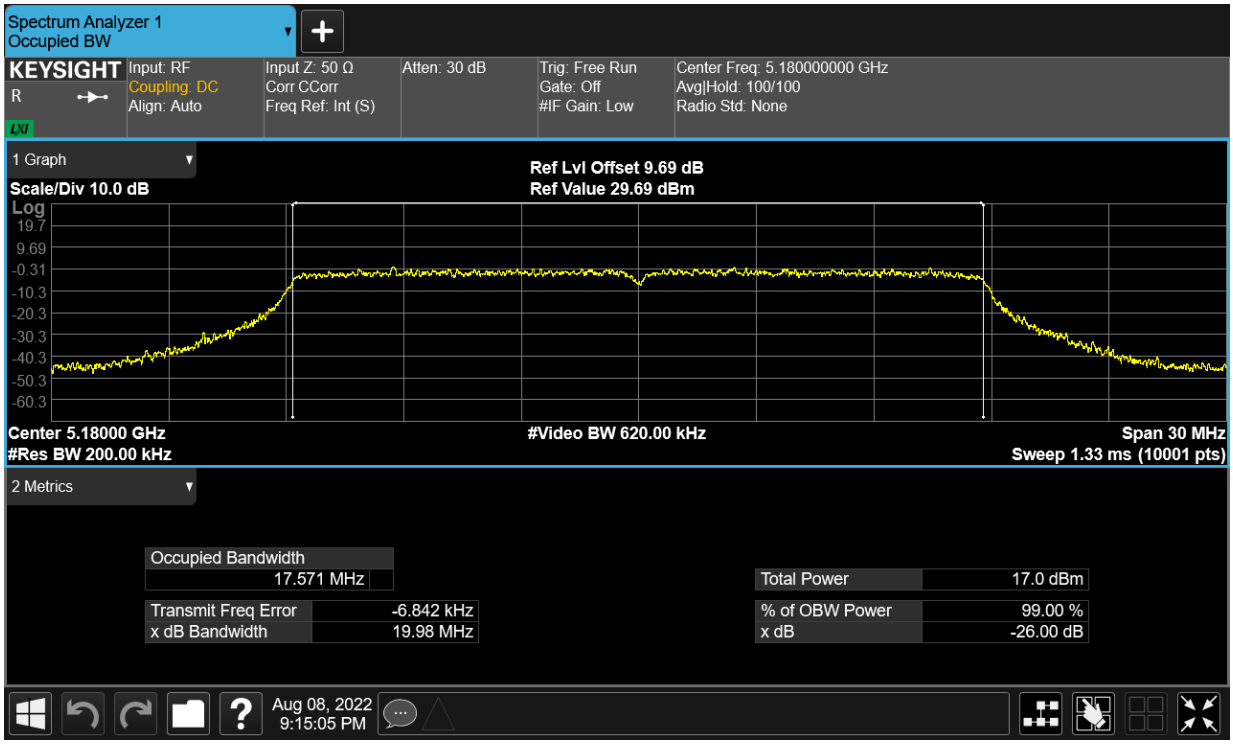
OBW NVNT ax80 5210MHz Ant1



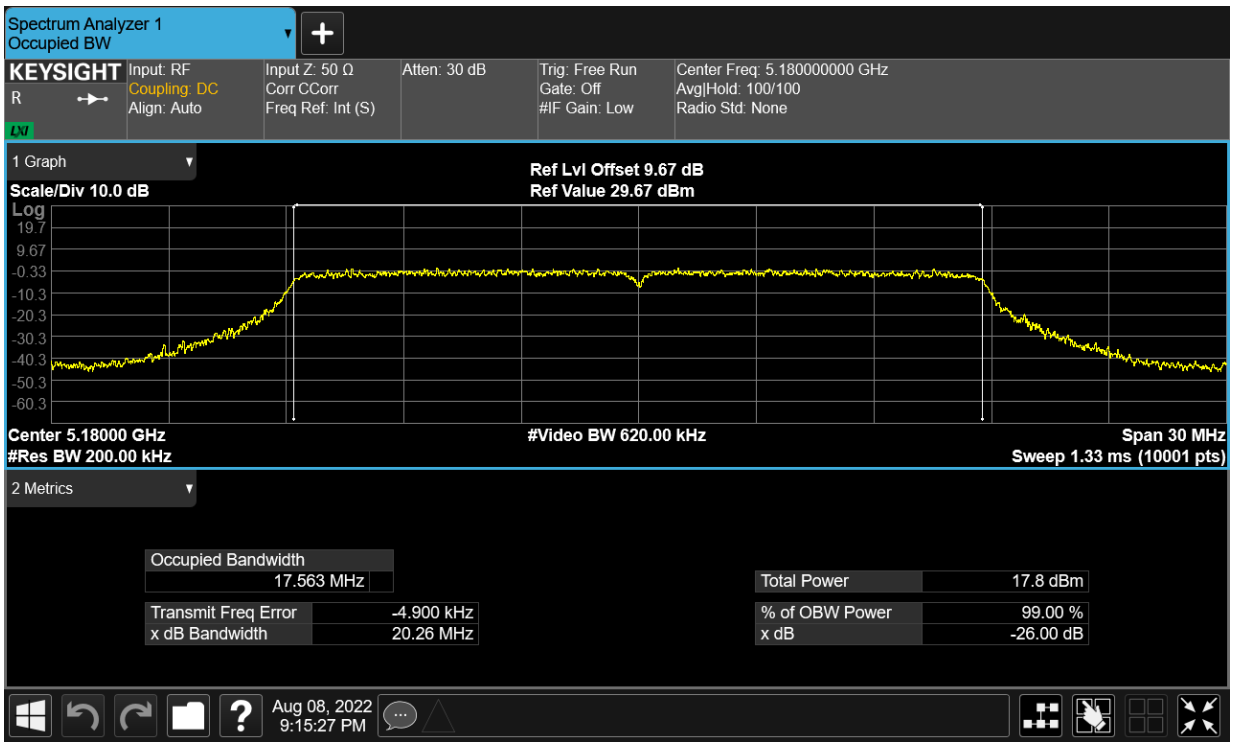
OBW NVNT ax80 5210MHz Ant2



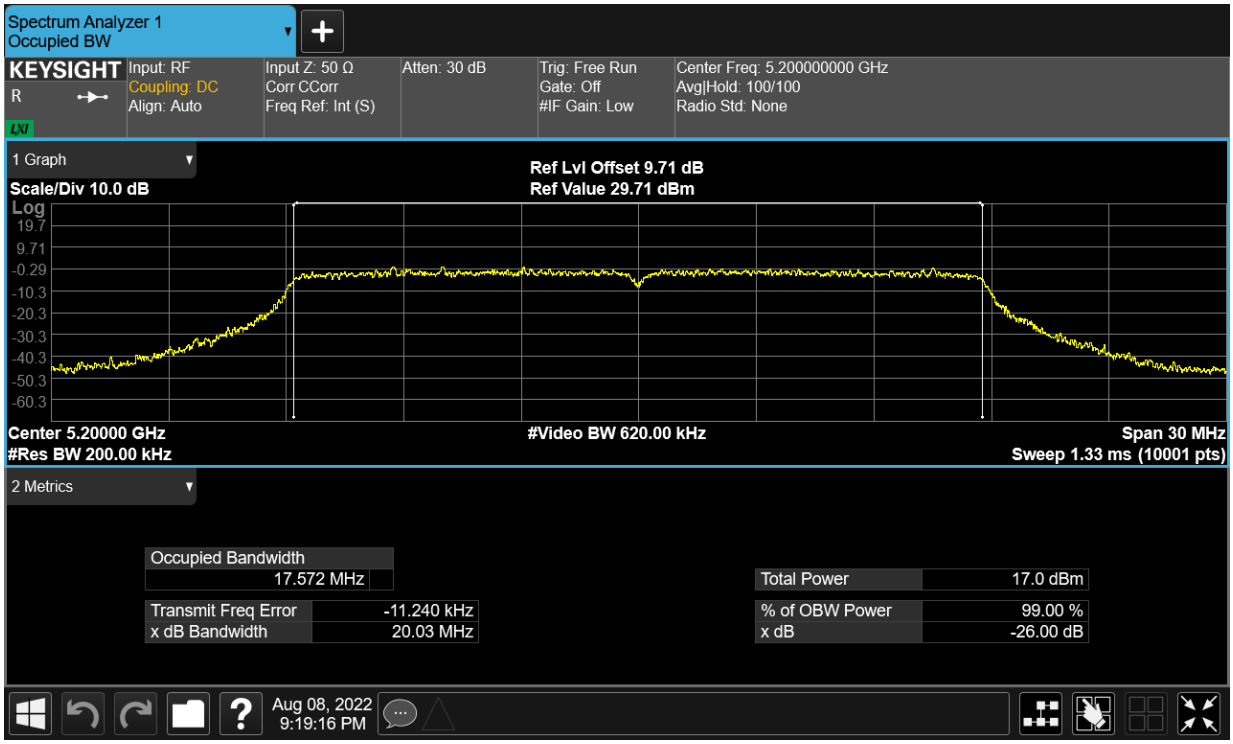
OBW NVNT n20 5180MHz Ant1



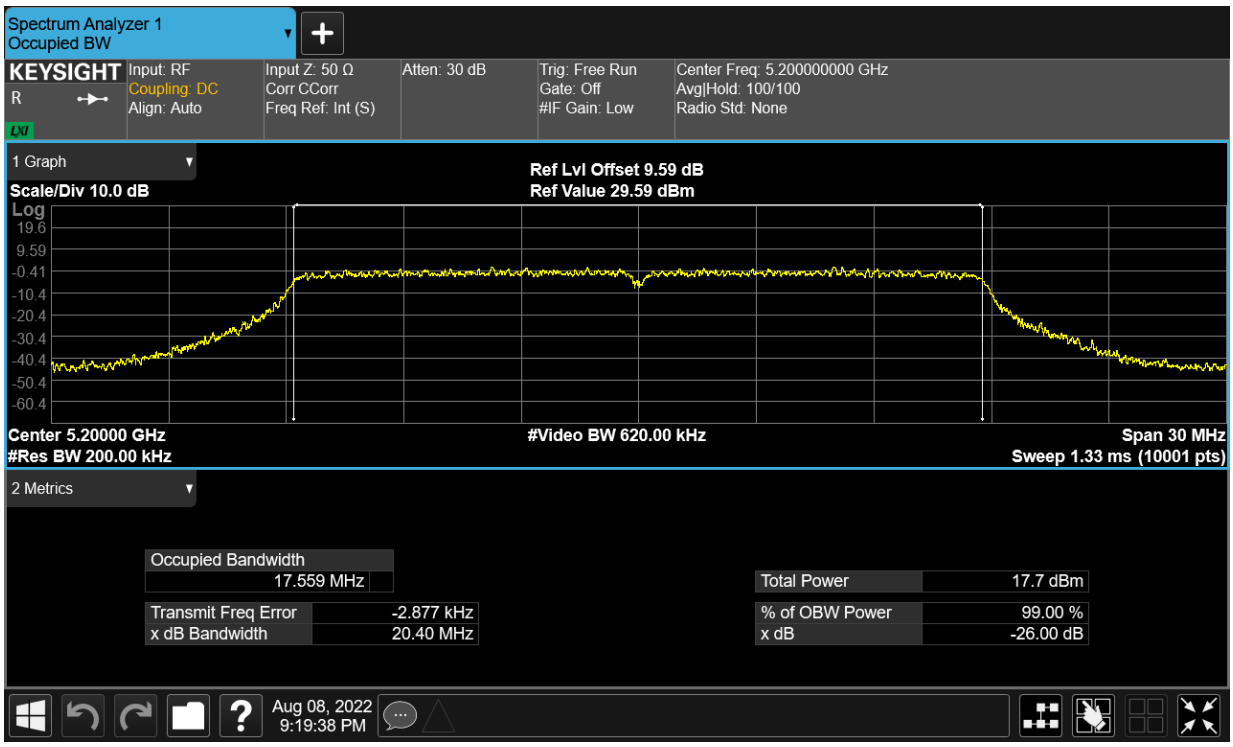
OBW NVNT n20 5180MHz Ant2



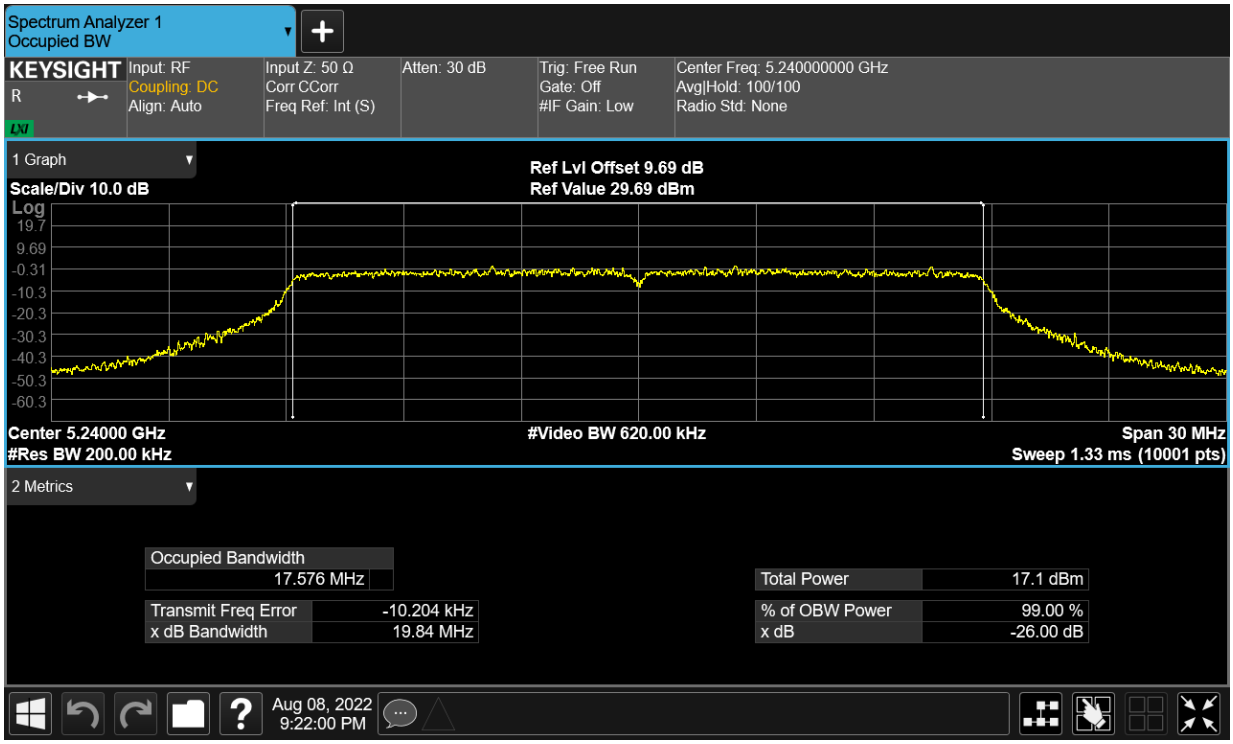
OBW NVNT n20 5200MHz Ant1



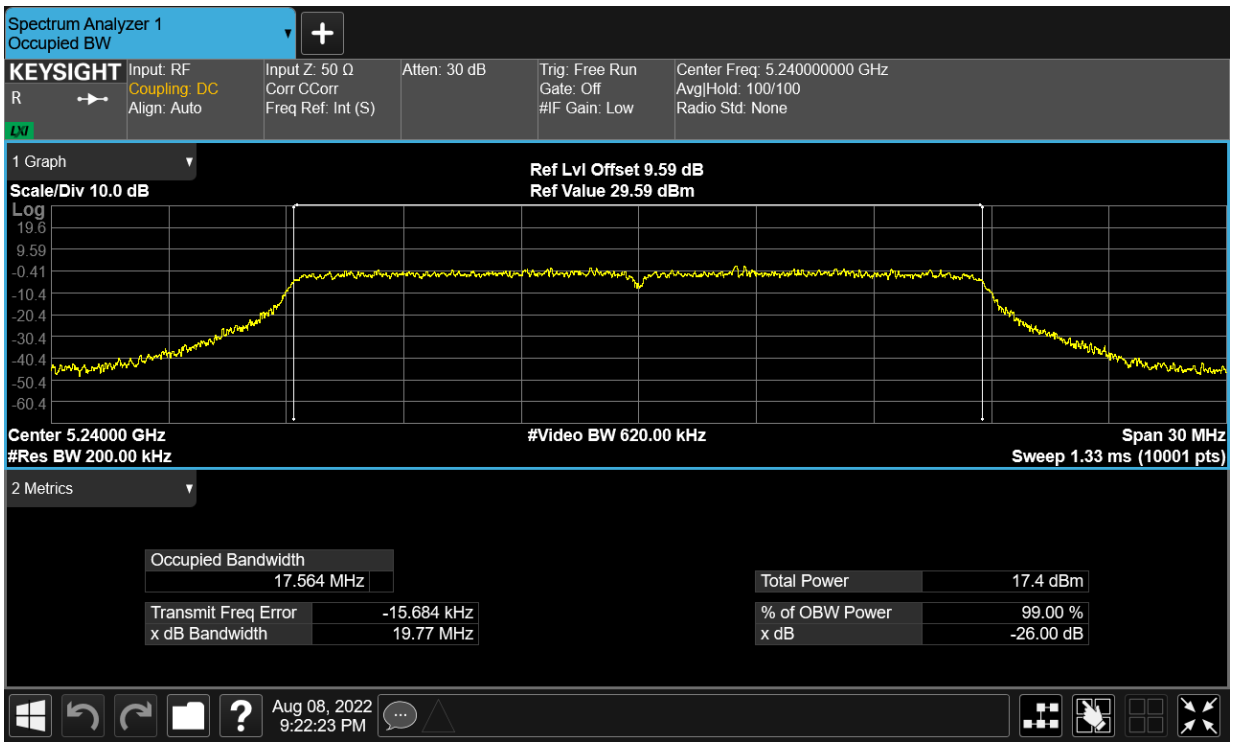
OBW NVNT n20 5200MHz Ant2



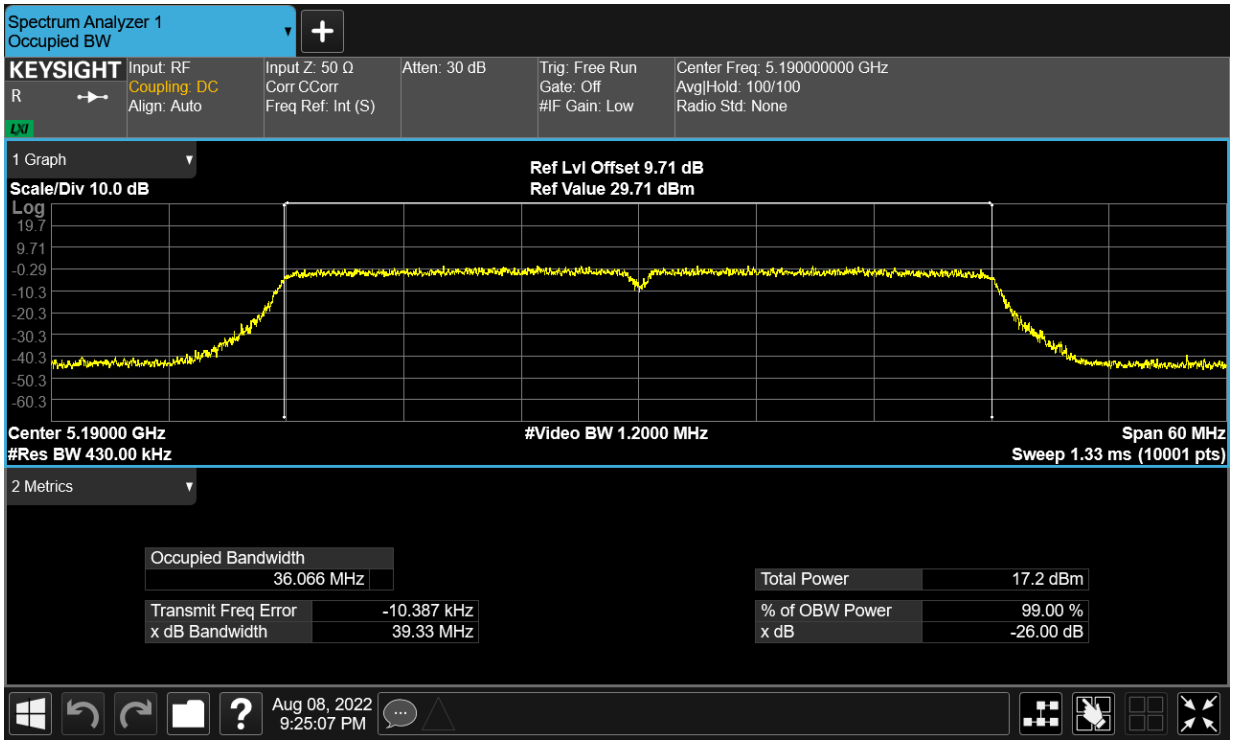
OBW NVNT n20 5240MHz Ant1



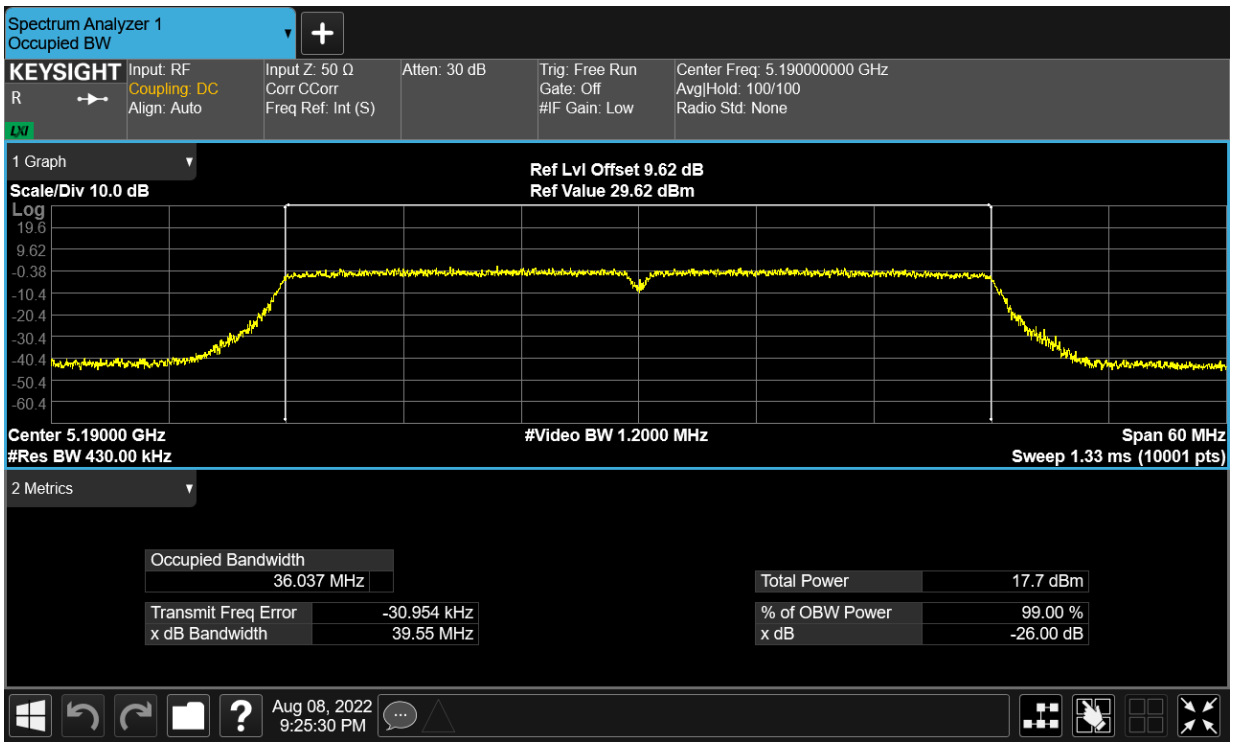
OBW NVNT n20 5240MHz Ant2



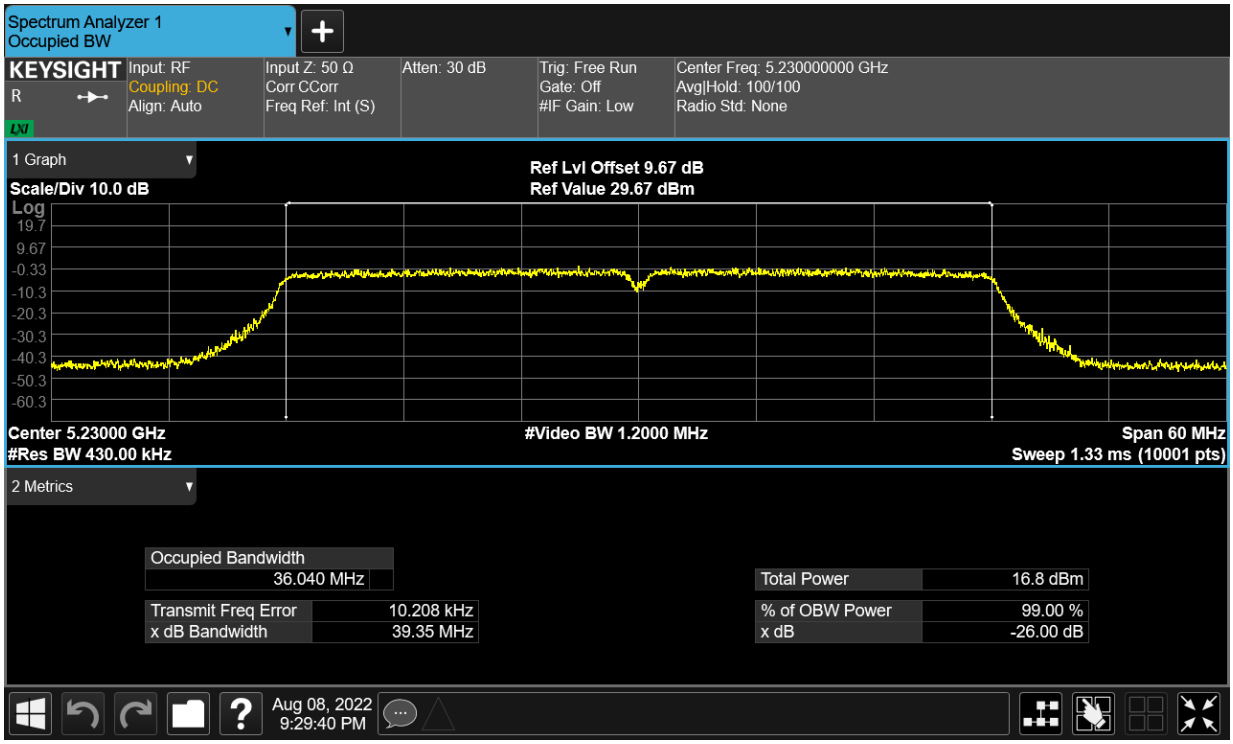
OBW NVNT n40 5190MHz Ant1



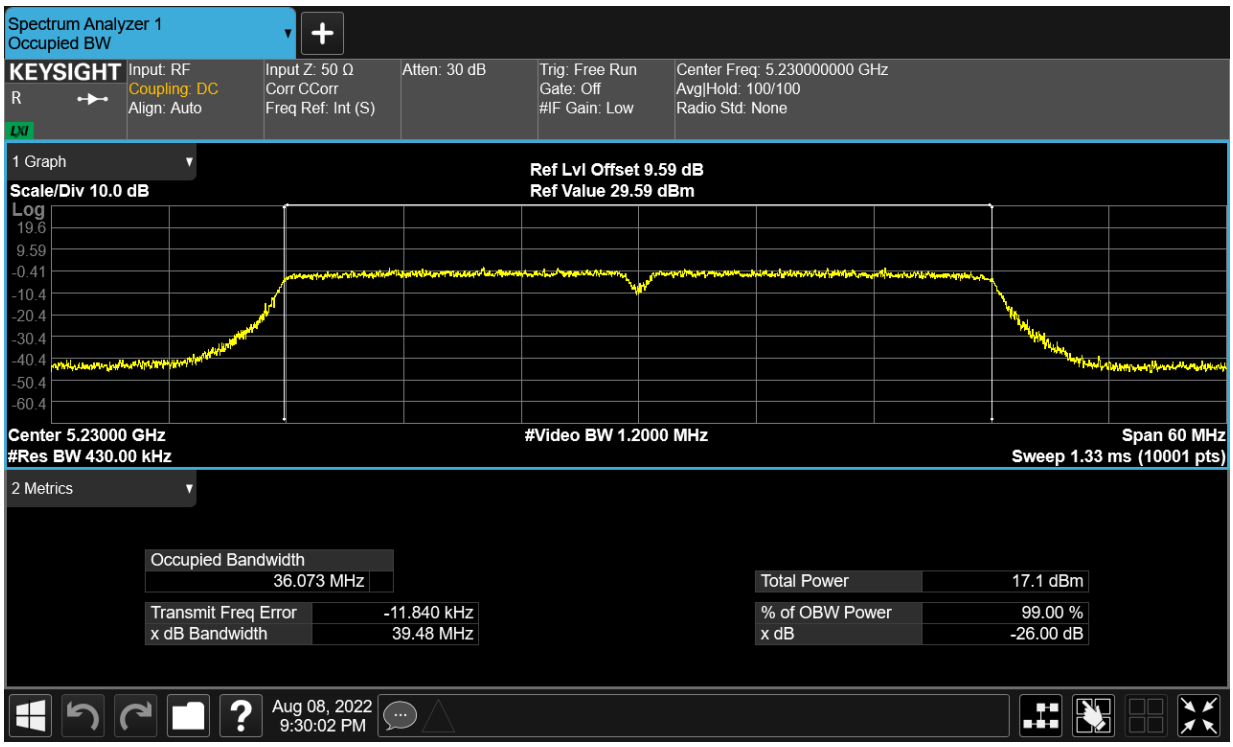
OBW NVNT n40 5190MHz Ant2



OBW NVNT n40 5230MHz Ant1



OBW NVNT n40 5230MHz Ant2



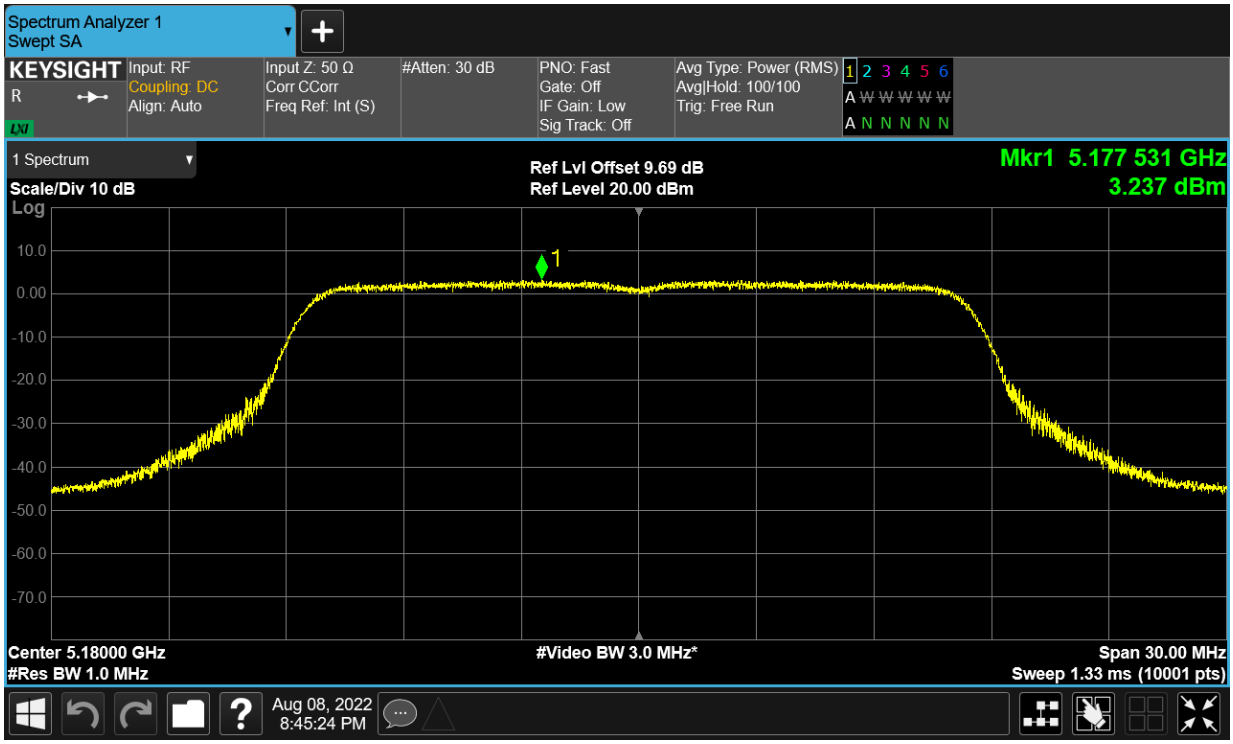
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	3.237	11	Pass
NVNT	a	5200	Ant1	3.279	11	Pass
NVNT	a	5240	Ant1	3.109	11	Pass
NVNT	a	5180	Ant2	3.864	11	Pass
NVNT	a	5200	Ant2	3.781	11	Pass
NVNT	a	5240	Ant2	3.369	11	Pass
NVNT	ac20	5180	Ant1	0.747	17	Pass
NVNT	ac20	5180	Ant2	1.554	17	Pass
NVNT	ac20	5180	Sum	4.18	17	Pass
NVNT	ac20	5200	Ant1	0.478	17	Pass
NVNT	ac20	5200	Ant2	1.241	17	Pass
NVNT	ac20	5200	Sum	3.887	17	Pass
NVNT	ac20	5240	Ant1	0.815	17	Pass
NVNT	ac20	5240	Ant2	1.094	17	Pass
NVNT	ac20	5240	Sum	3.967	17	Pass
NVNT	ac40	5190	Ant1	-2.639	11	Pass
NVNT	ac40	5190	Ant2	-1.974	11	Pass
NVNT	ac40	5190	Sum	0.717	11	Pass
NVNT	ac40	5230	Ant1	-2.683	11	Pass
NVNT	ac40	5230	Ant2	-2.321	11	Pass
NVNT	ac40	5230	Sum	0.512	11	Pass
NVNT	ac80	5210	Ant1	-5.873	11	Pass
NVNT	ac80	5210	Ant2	-5.795	11	Pass
NVNT	ac80	5210	Sum	-2.824	11	Pass
NVNT	ax20	5180	Ant1	-1.005	17	Pass
NVNT	ax20	5180	Ant2	-0.553	17	Pass
NVNT	ax20	5180	Sum	2.237	17	Pass
NVNT	ax20	5200	Ant1	-1.392	17	Pass
NVNT	ax20	5200	Ant2	-0.52	17	Pass
NVNT	ax20	5200	Sum	2.076	17	Pass
NVNT	ax20	5240	Ant1	-0.559	17	Pass
NVNT	ax20	5240	Ant2	-0.93	17	Pass
NVNT	ax20	5240	Sum	2.27	17	Pass
NVNT	ax40	5190	Ant1	-3.669	11	Pass
NVNT	ax40	5190	Ant2	-3.022	11	Pass
NVNT	ax40	5190	Sum	-0.323	11	Pass
NVNT	ax40	5230	Ant1	-4.126	11	Pass
NVNT	ax40	5230	Ant2	-3.402	11	Pass
NVNT	ax40	5230	Sum	-0.739	11	Pass
NVNT	ax80	5210	Ant1	-6.797	11	Pass
NVNT	ax80	5210	Ant2	-6.258	11	Pass

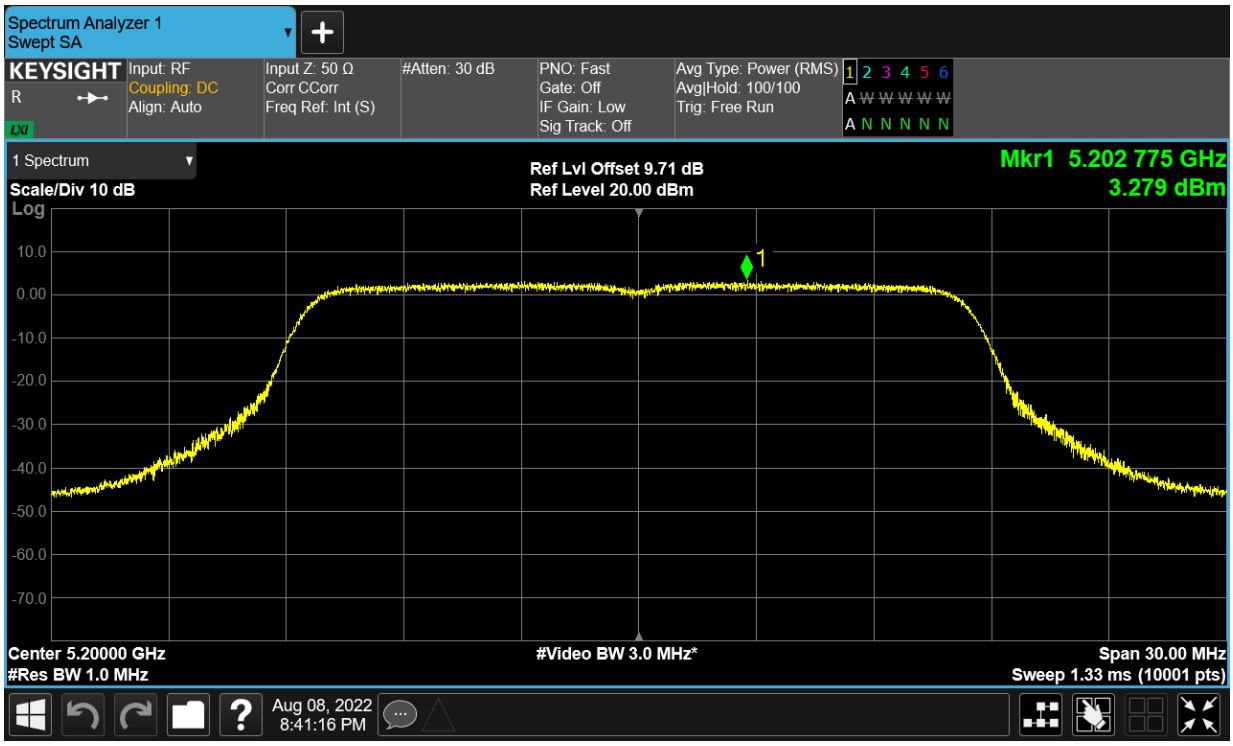
NVNT	ax80	5210	Sum	-3.509	11	Pass
NVNT	n20	5180	Ant1	0.692	11	Pass
NVNT	n20	5180	Ant2	1.411	11	Pass
NVNT	n20	5180	Sum	4.077	11	Pass
NVNT	n20	5200	Ant1	0.62	11	Pass
NVNT	n20	5200	Ant2	1.314	11	Pass
NVNT	n20	5200	Sum	3.991	11	Pass
NVNT	n20	5240	Ant1	0.942	11	Pass
NVNT	n20	5240	Ant2	1.115	11	Pass
NVNT	n20	5240	Sum	4.04	11	Pass
NVNT	n40	5190	Ant1	-2.508	11	Pass
NVNT	n40	5190	Ant2	-1.683	11	Pass
NVNT	n40	5190	Sum	0.934	11	Pass
NVNT	n40	5230	Ant1	-2.999	11	Pass
NVNT	n40	5230	Ant2	-2.277	11	Pass
NVNT	n40	5230	Sum	0.387	11	Pass

Test Graphs

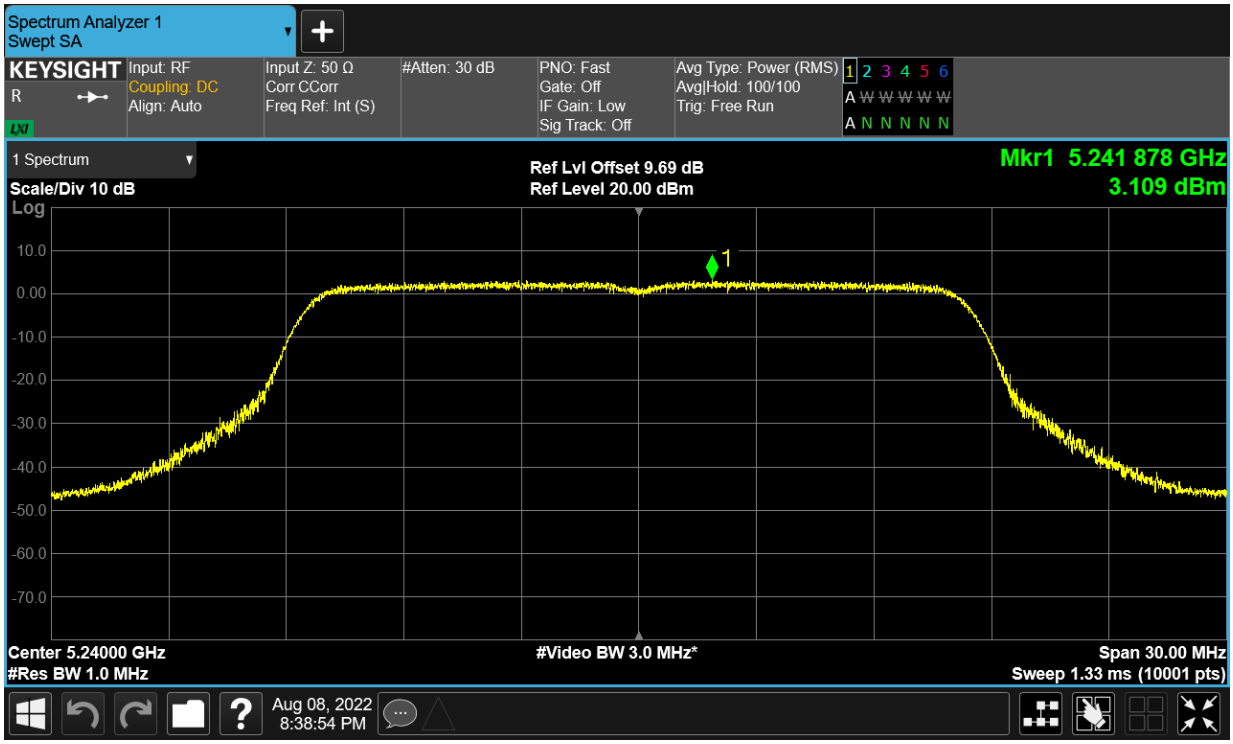
PSD NVNT a 5180MHz Ant1



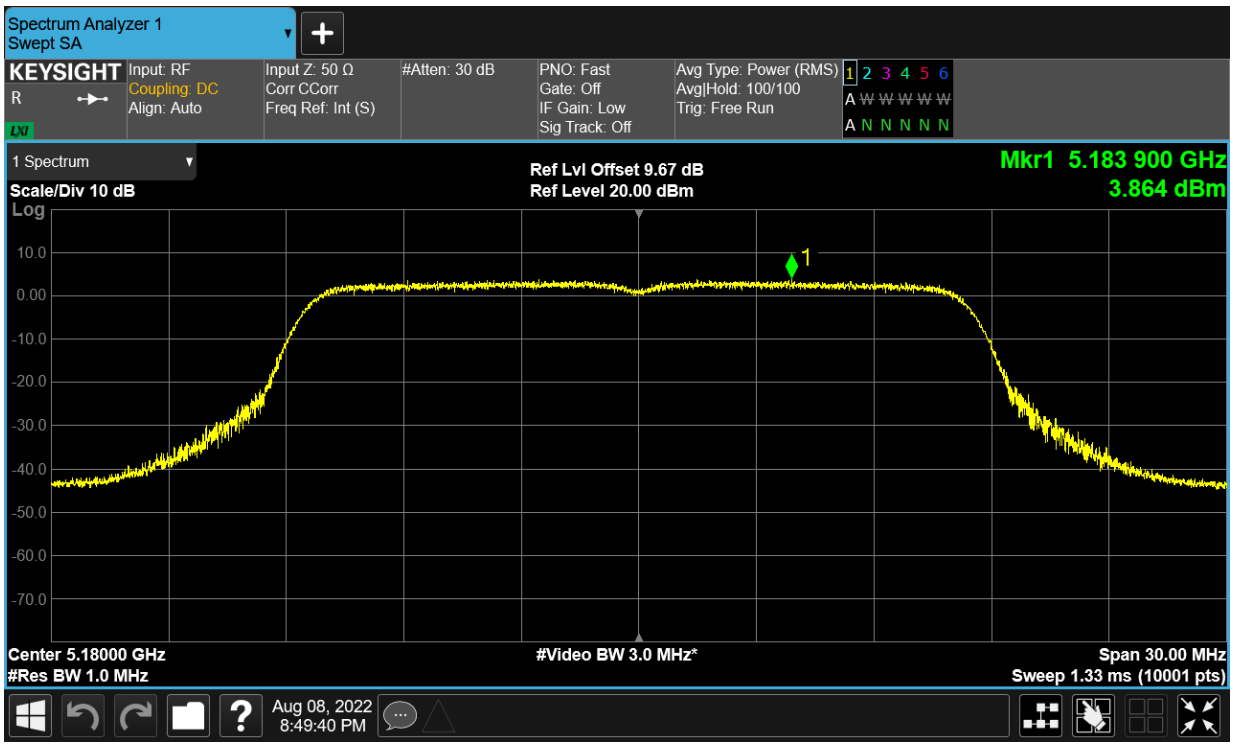
PSD NVNT a 5200MHz Ant1



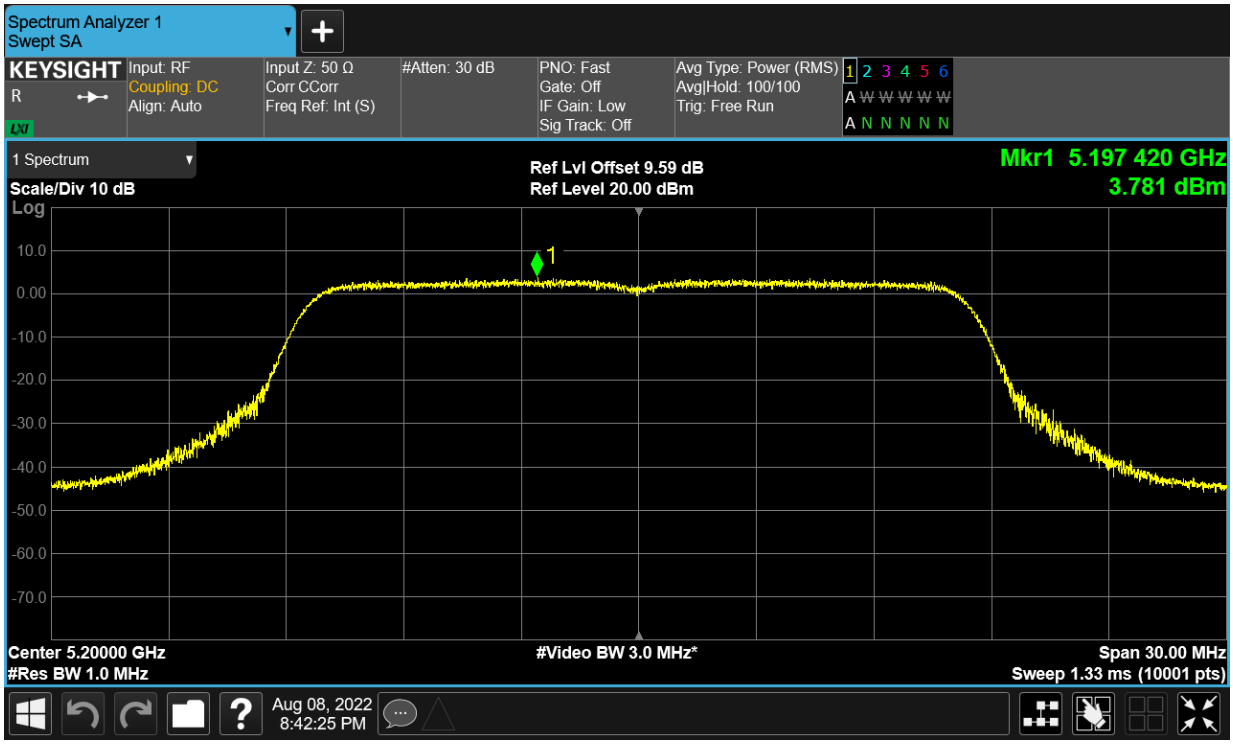
PSD NVNT a 5240MHz Ant1



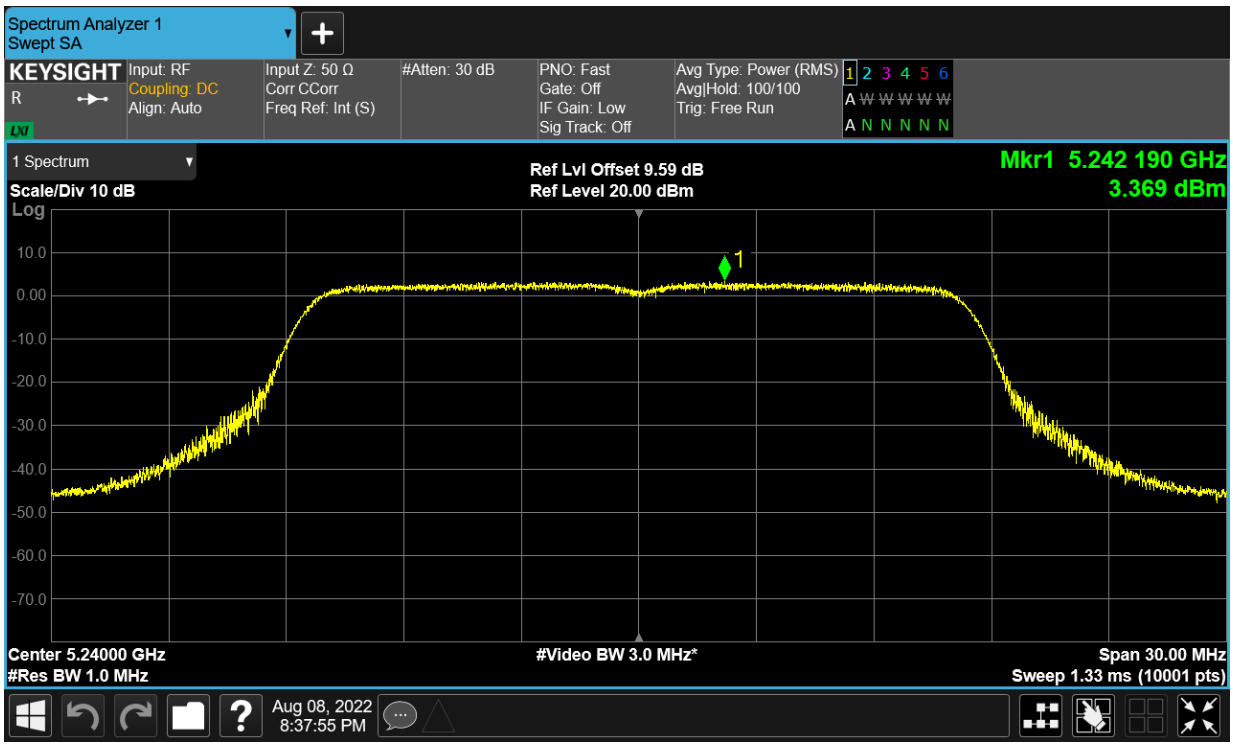
PSD NVNT a 5180MHz Ant2



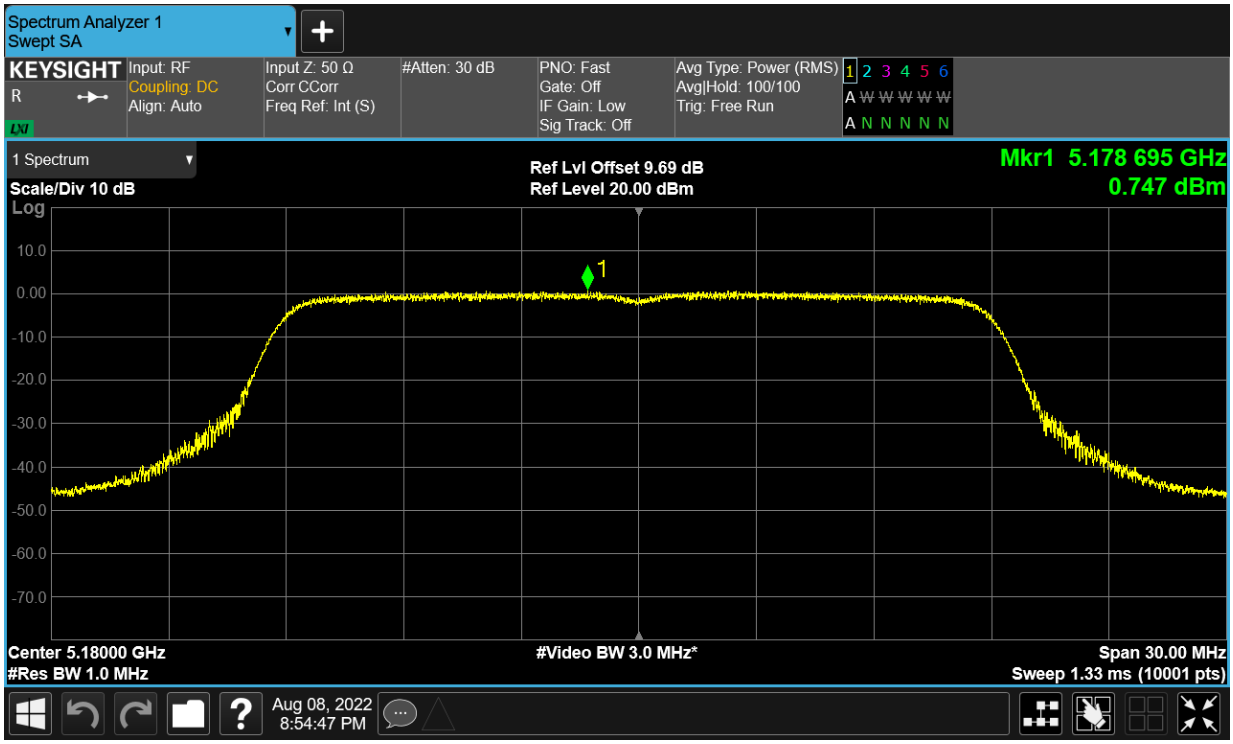
PSD NVNT a 5200MHz Ant2



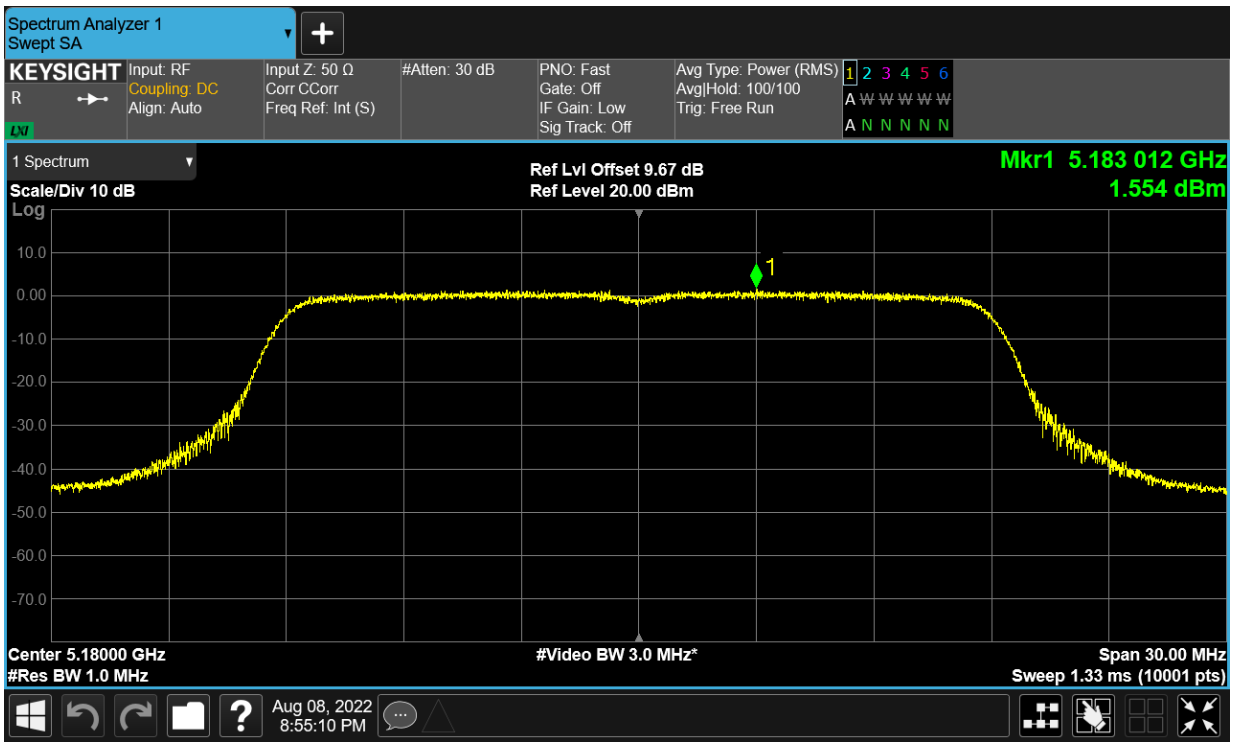
PSD NVNT a 5240MHz Ant2



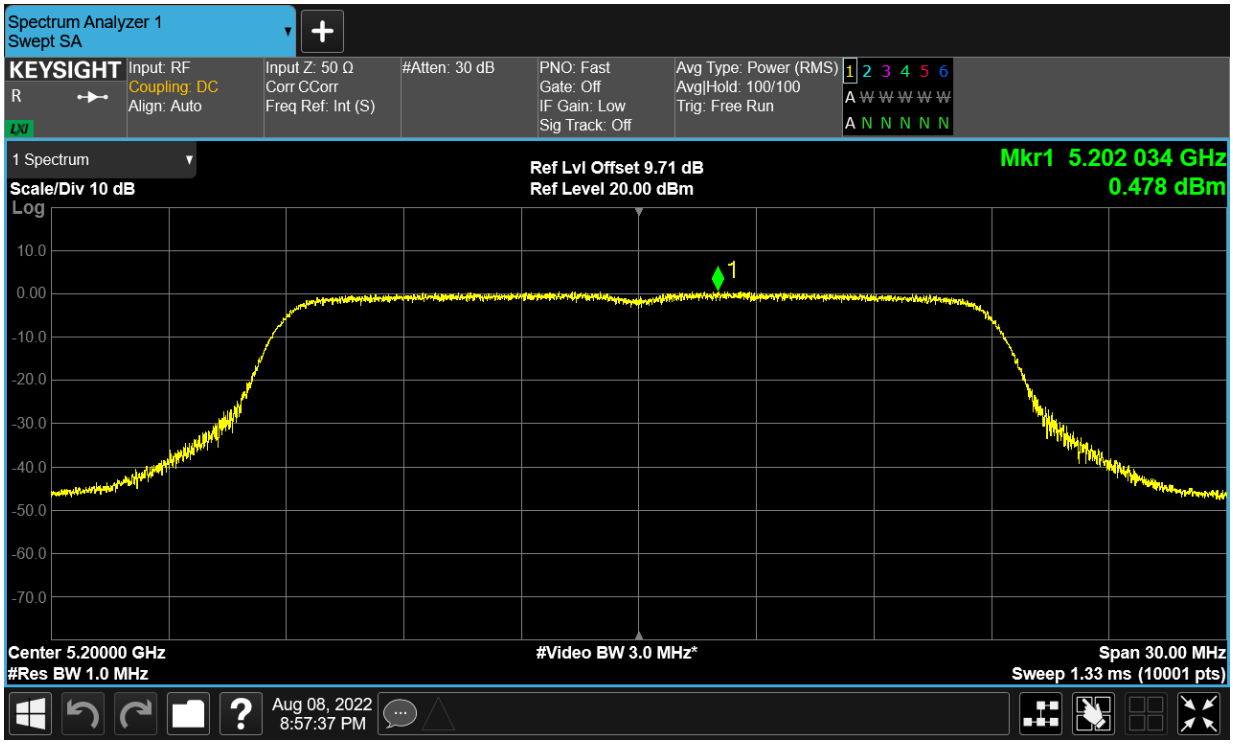
PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5180MHz Ant2



PSD NVNT ac20 5200MHz Ant1



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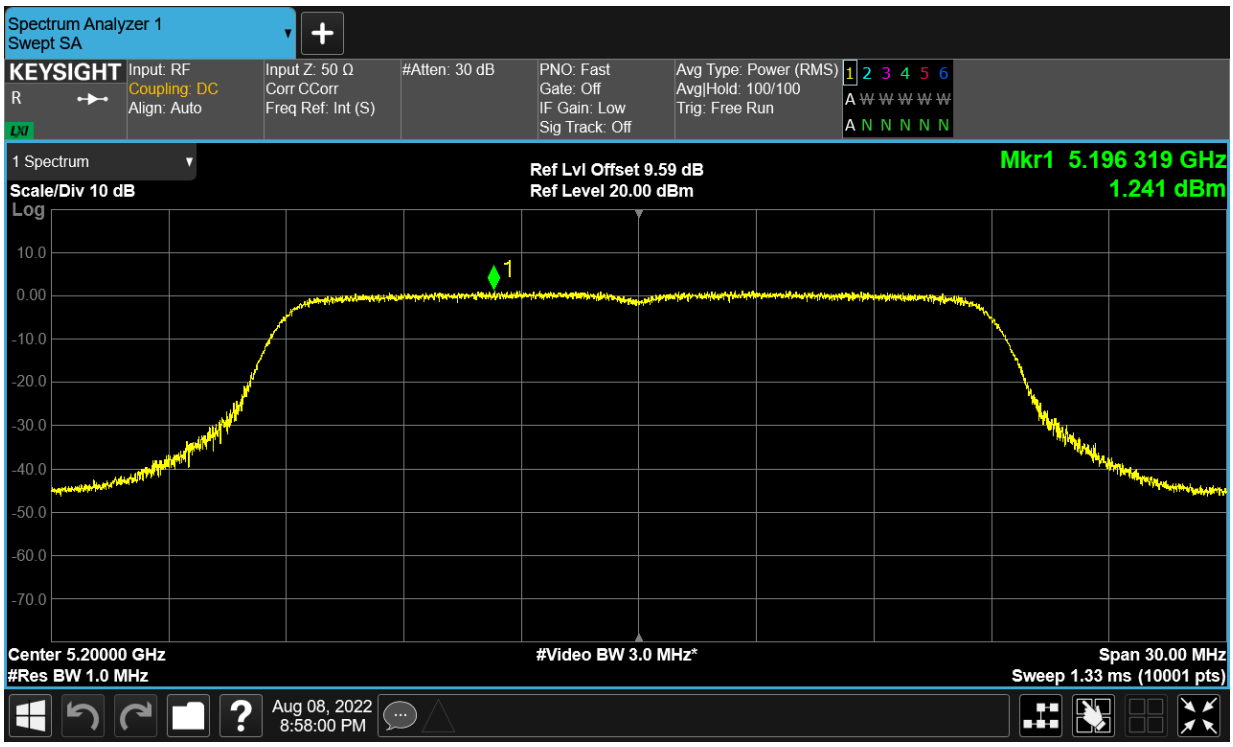
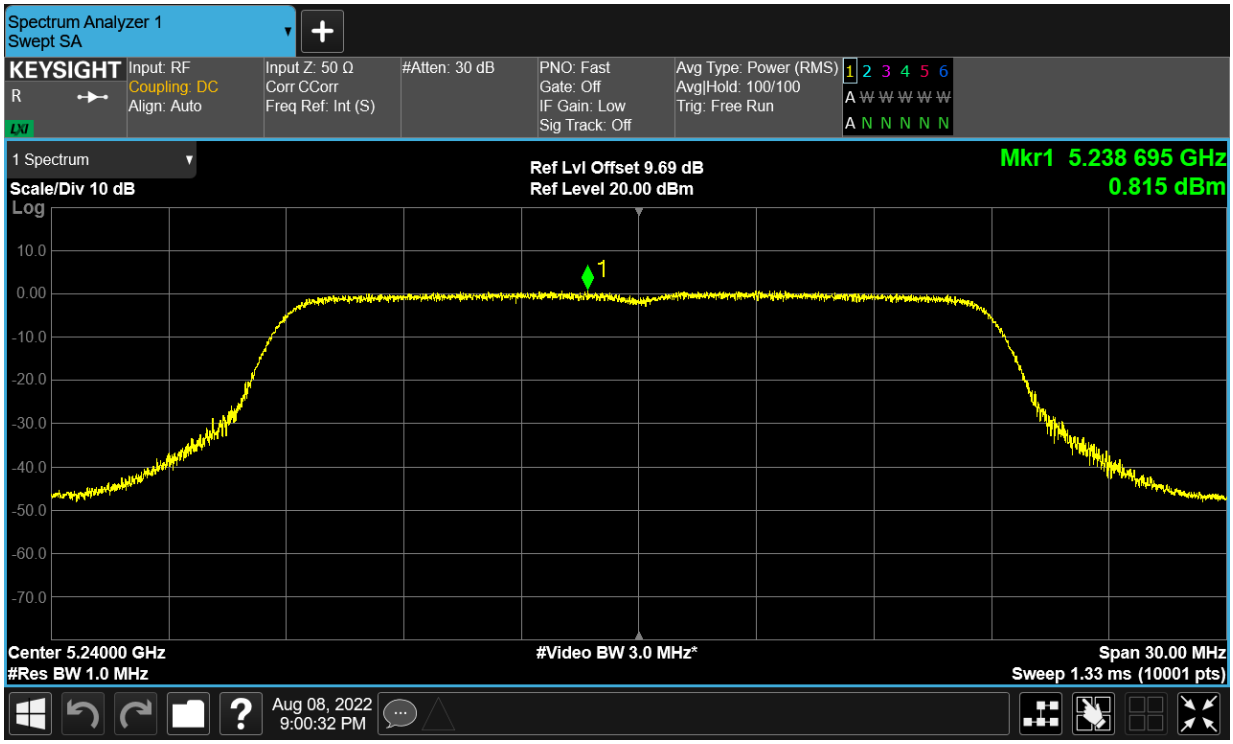
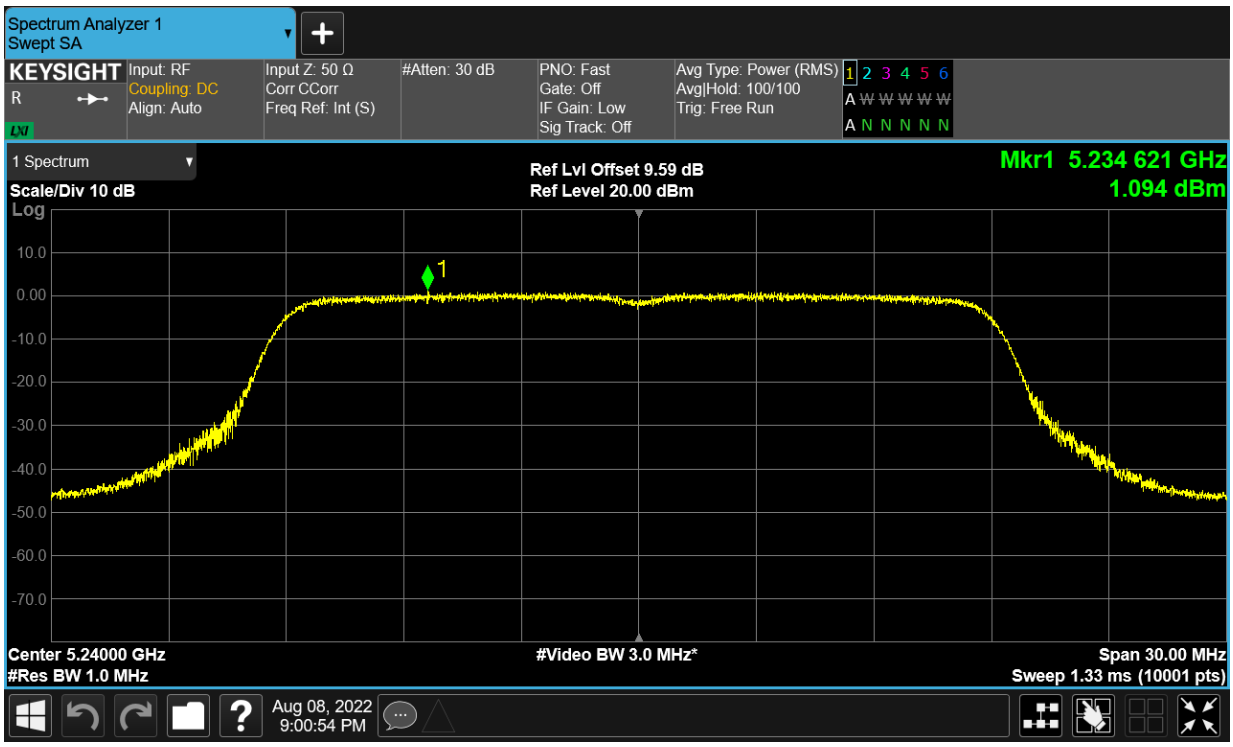


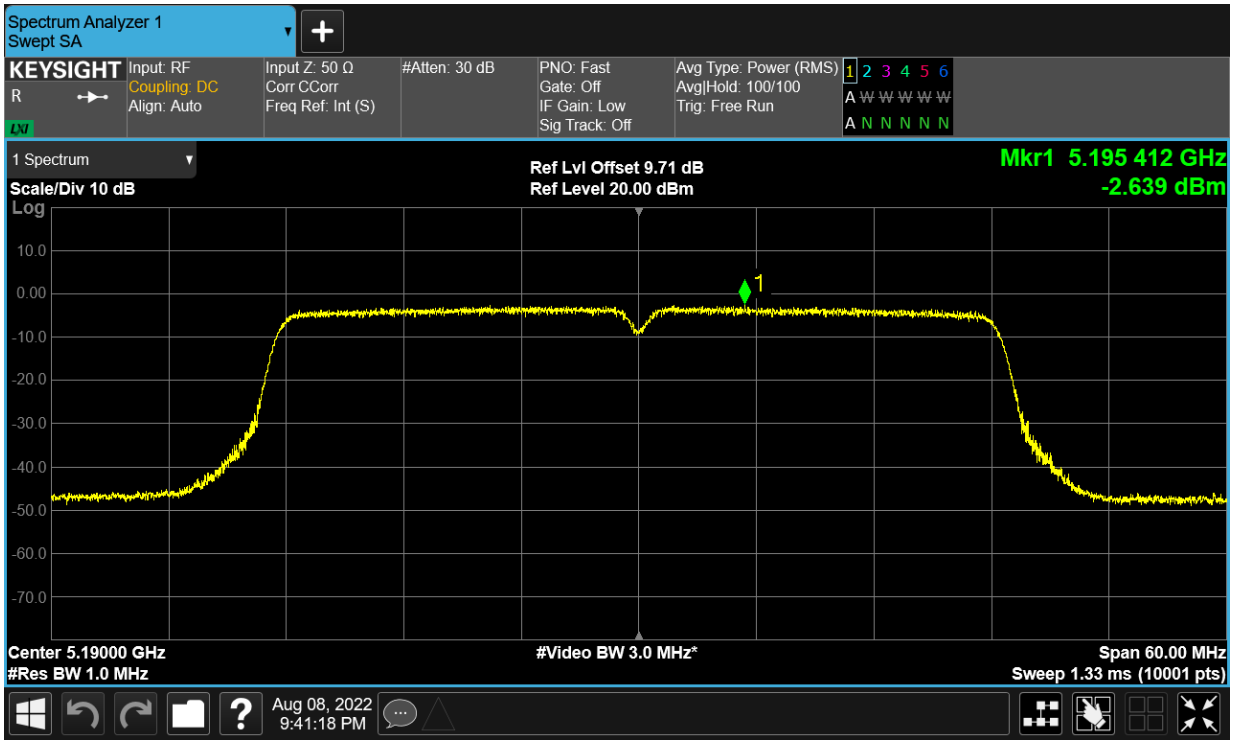
PSD NVNT ac20 5240MHz Ant1



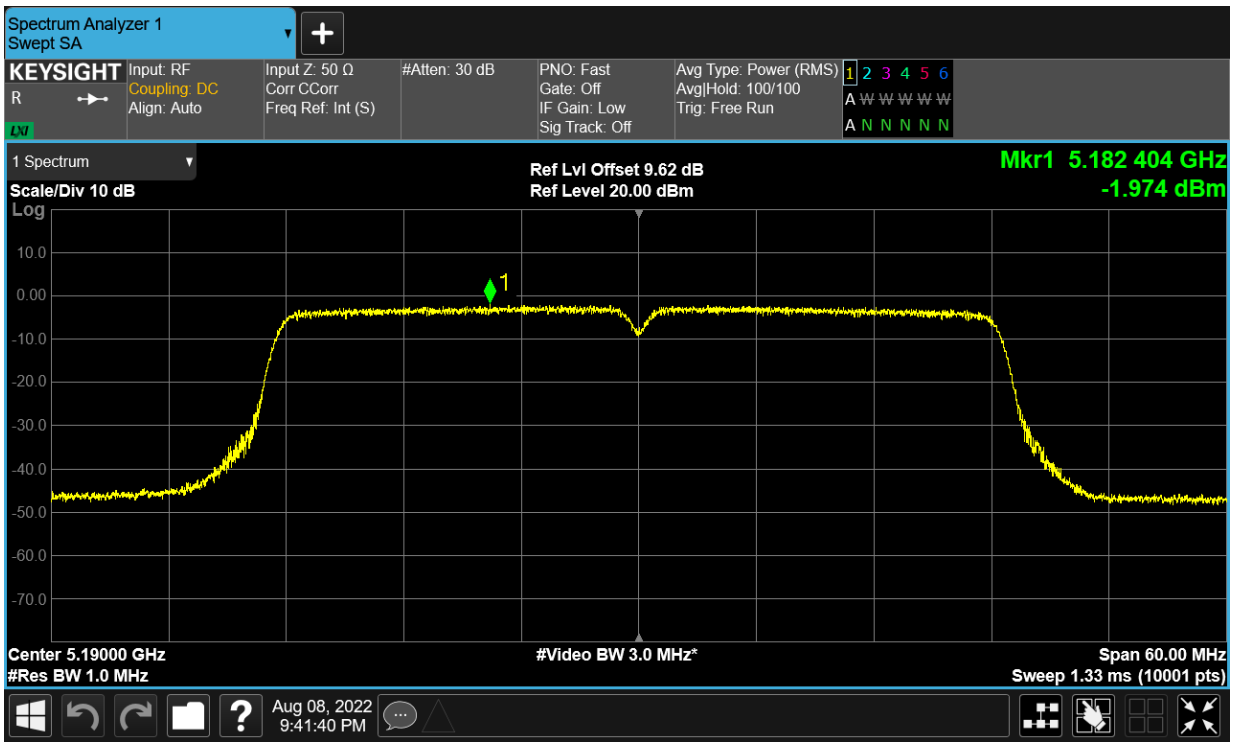
PSD NVNT ac20 5240MHz Ant2



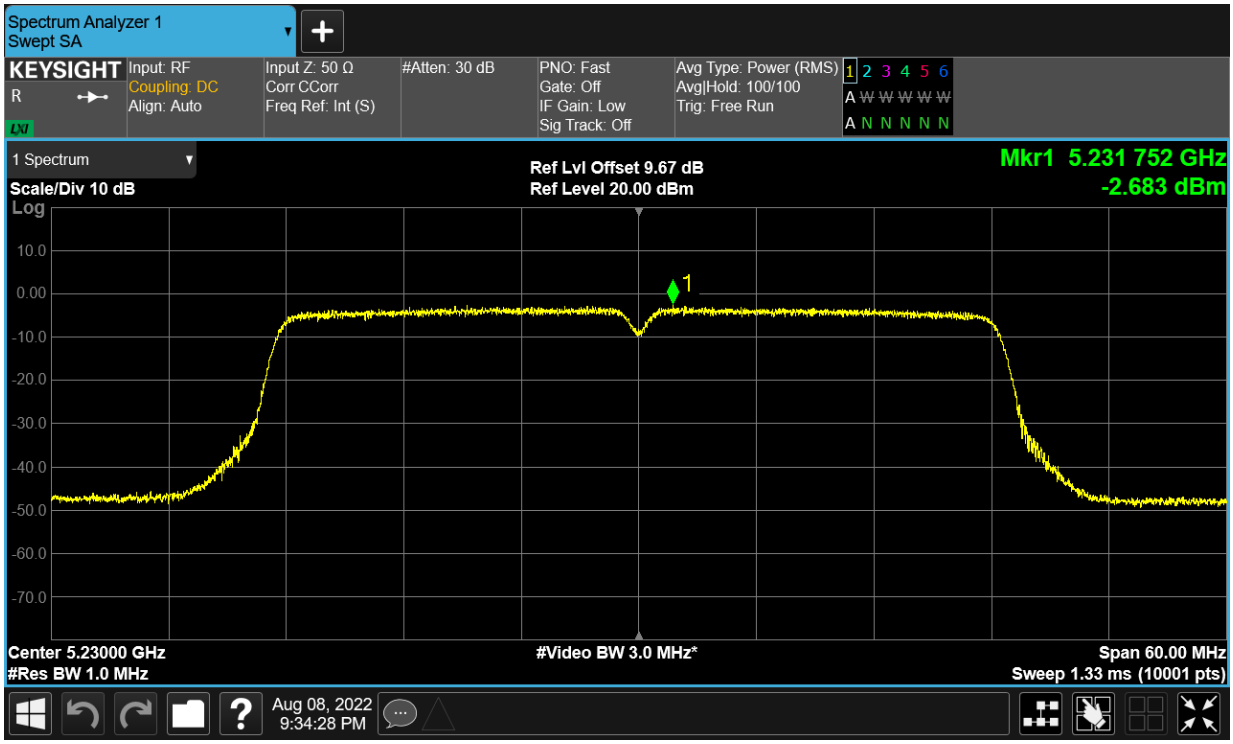
PSD NVNT ac40 5190MHz Ant1



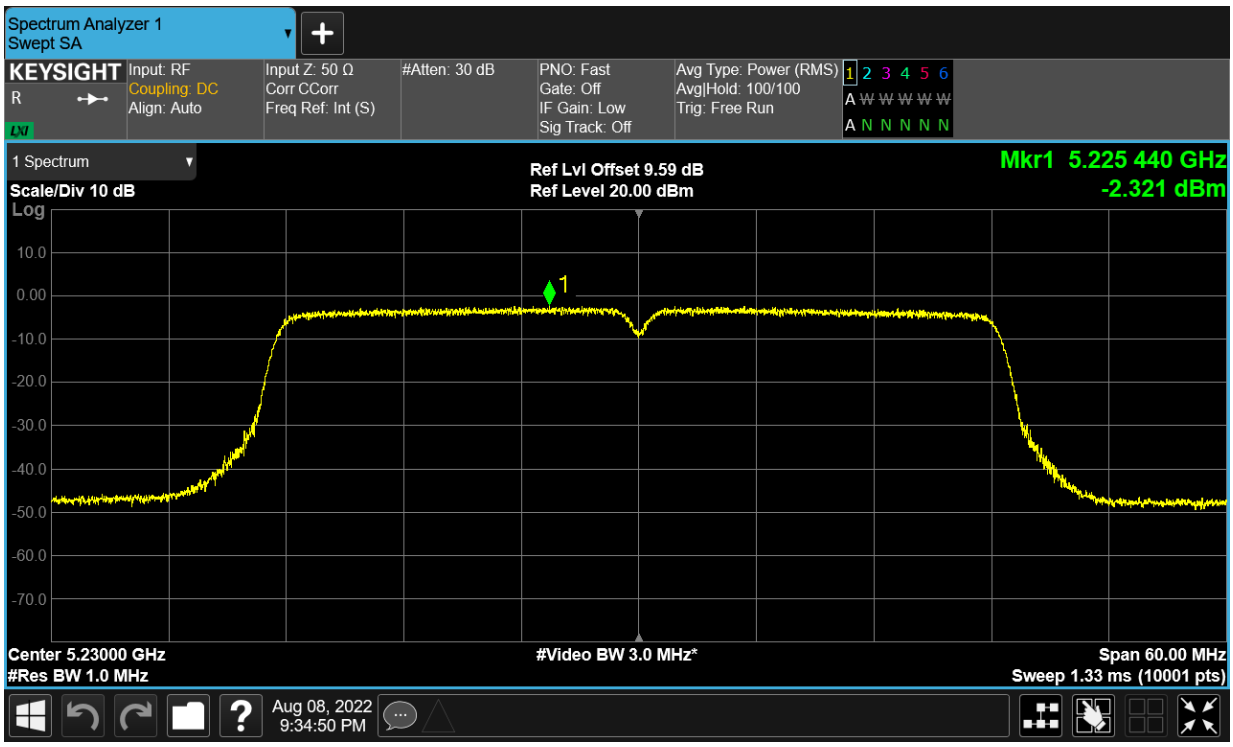
PSD NVNT ac40 5190MHz Ant2



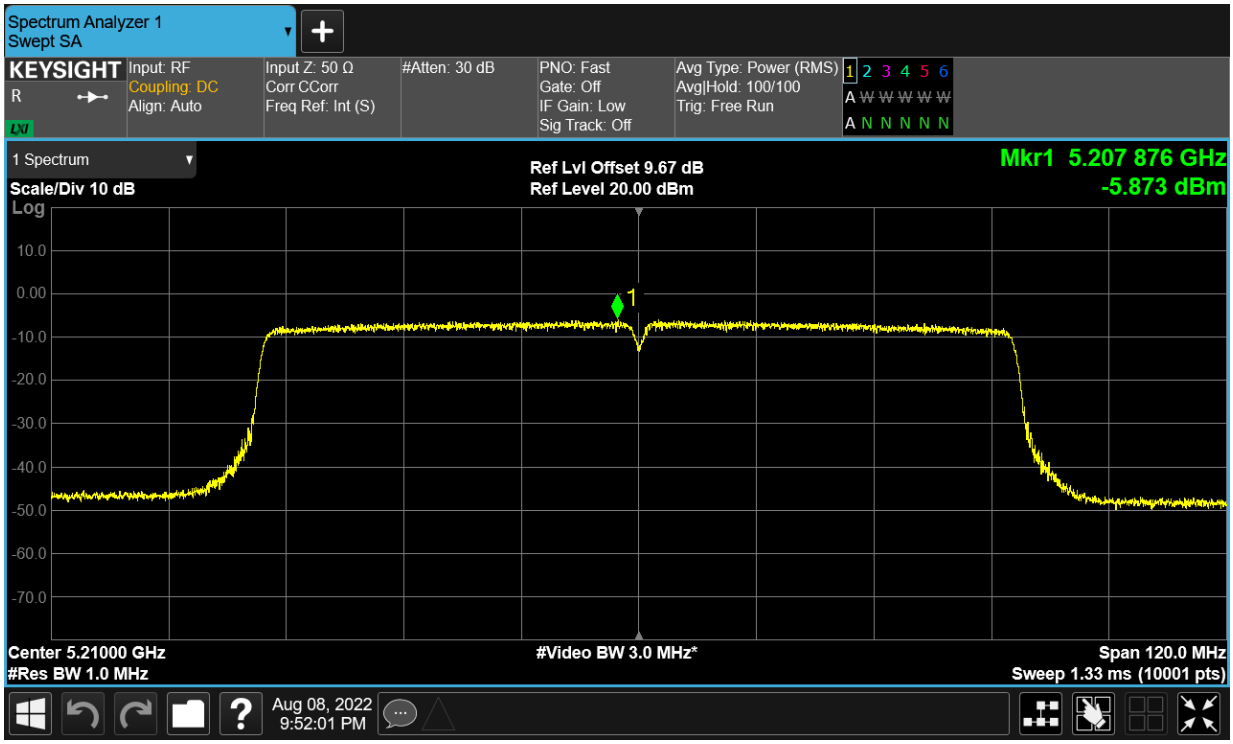
PSD NVNT ac40 5230MHz Ant1



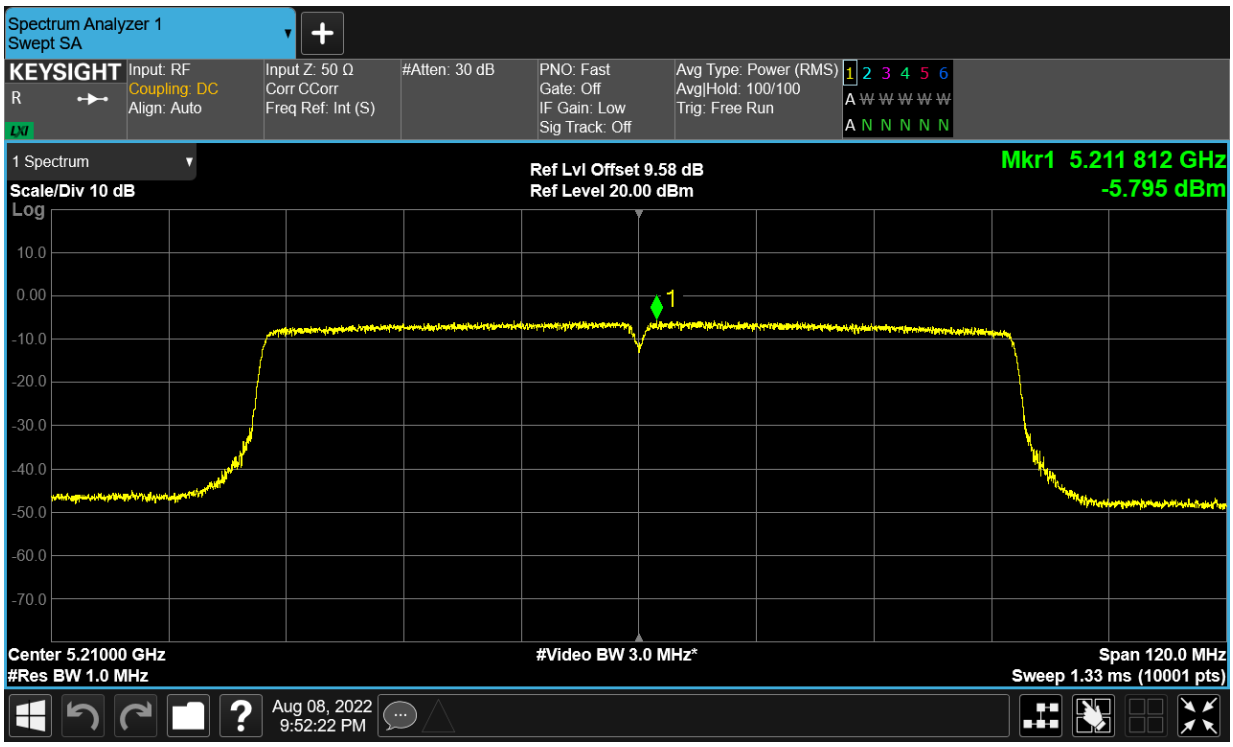
PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5210MHz Ant2



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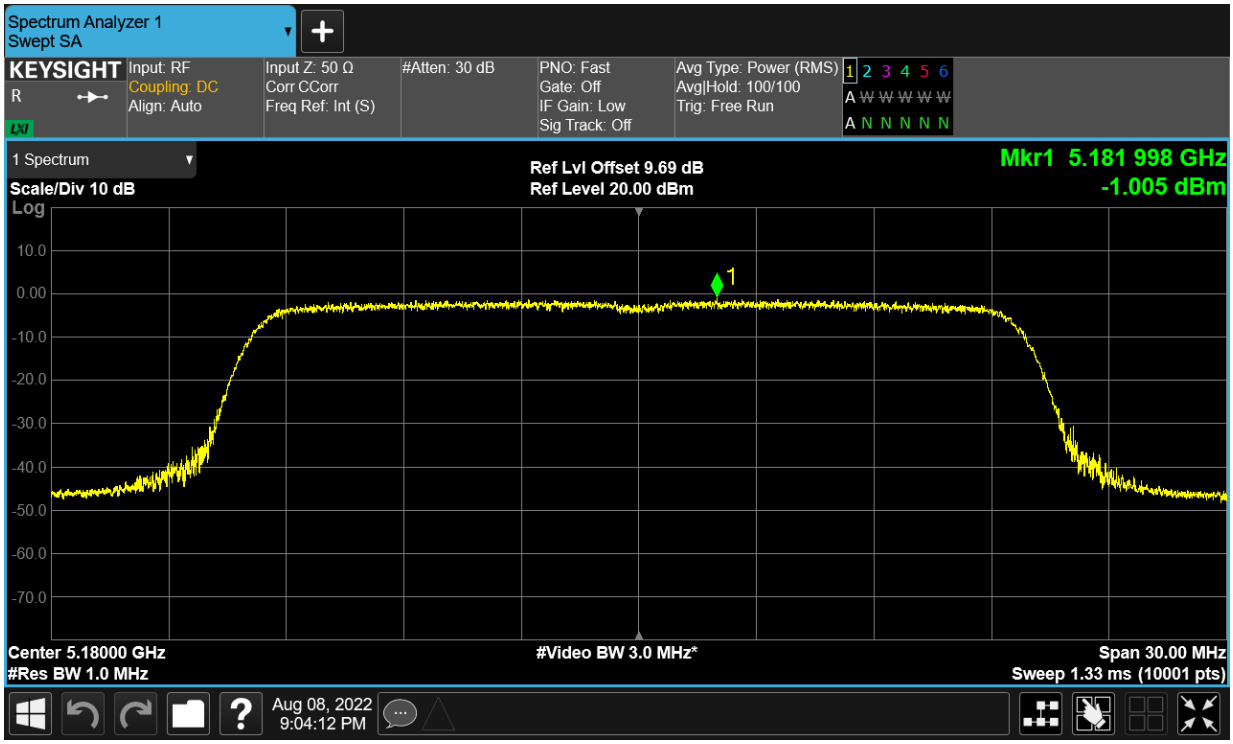
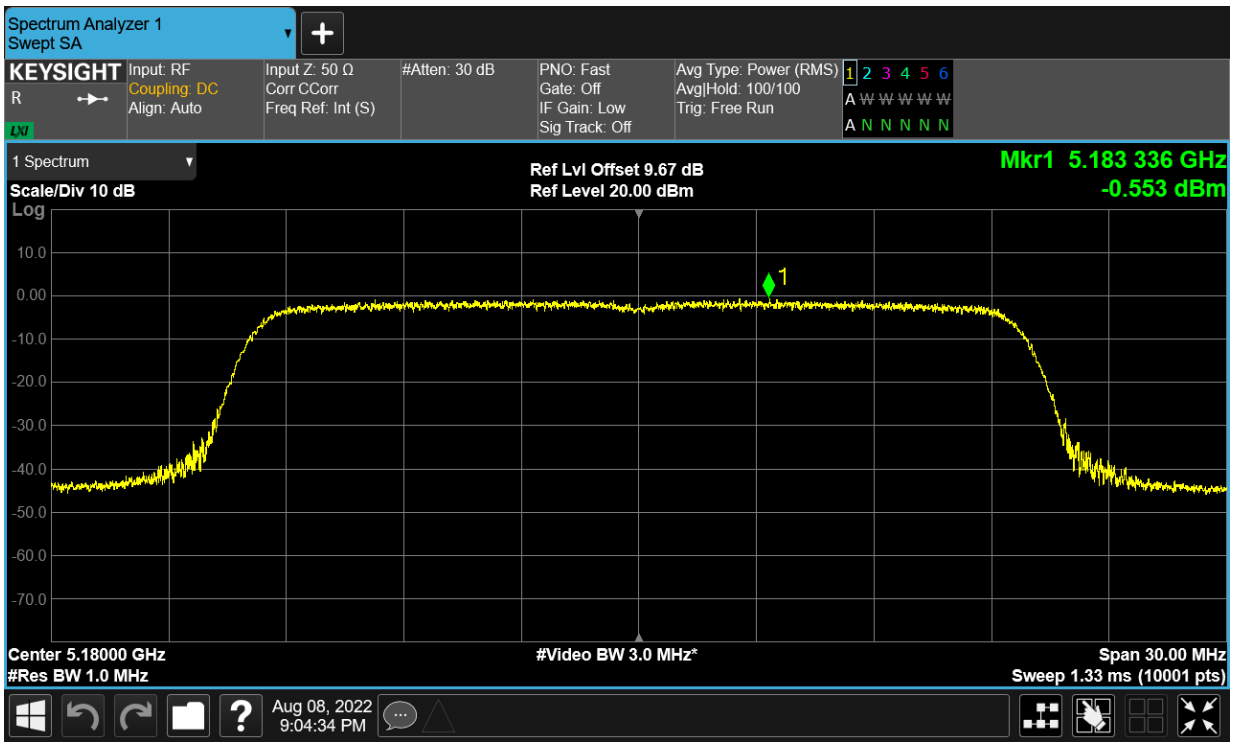


PSD NVNT ax20 5180MHz Ant2



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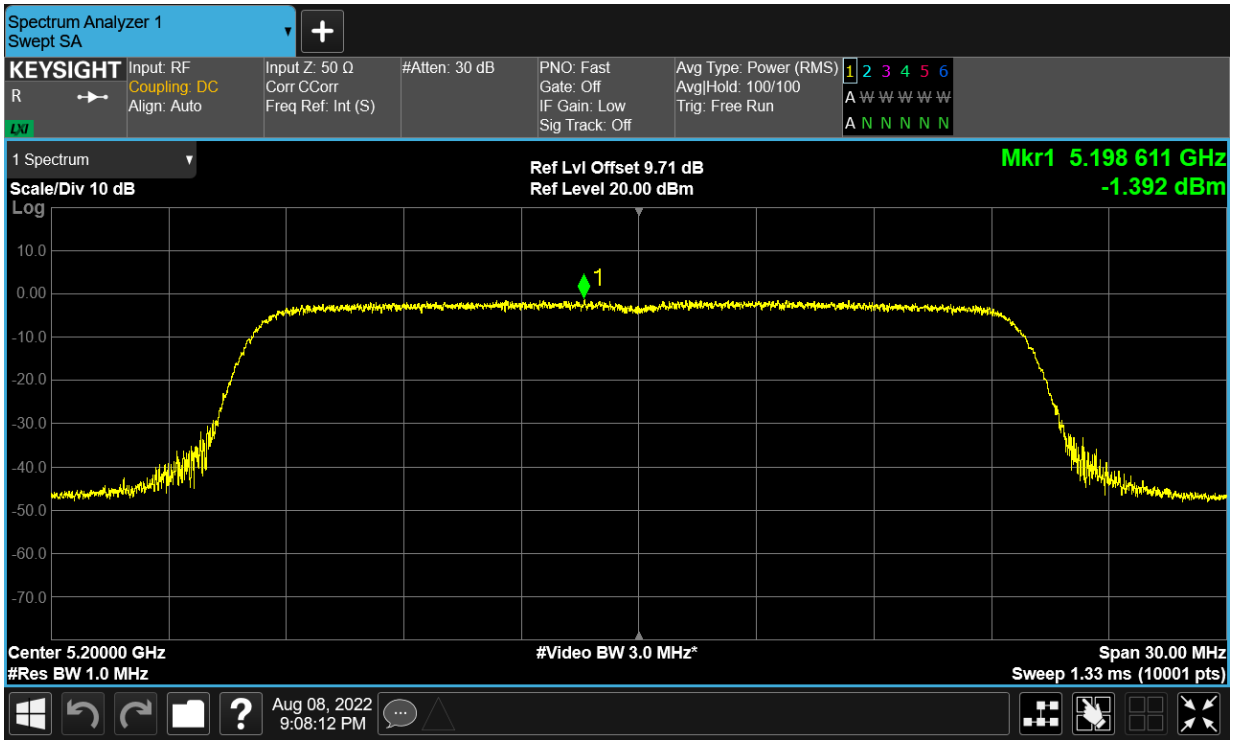
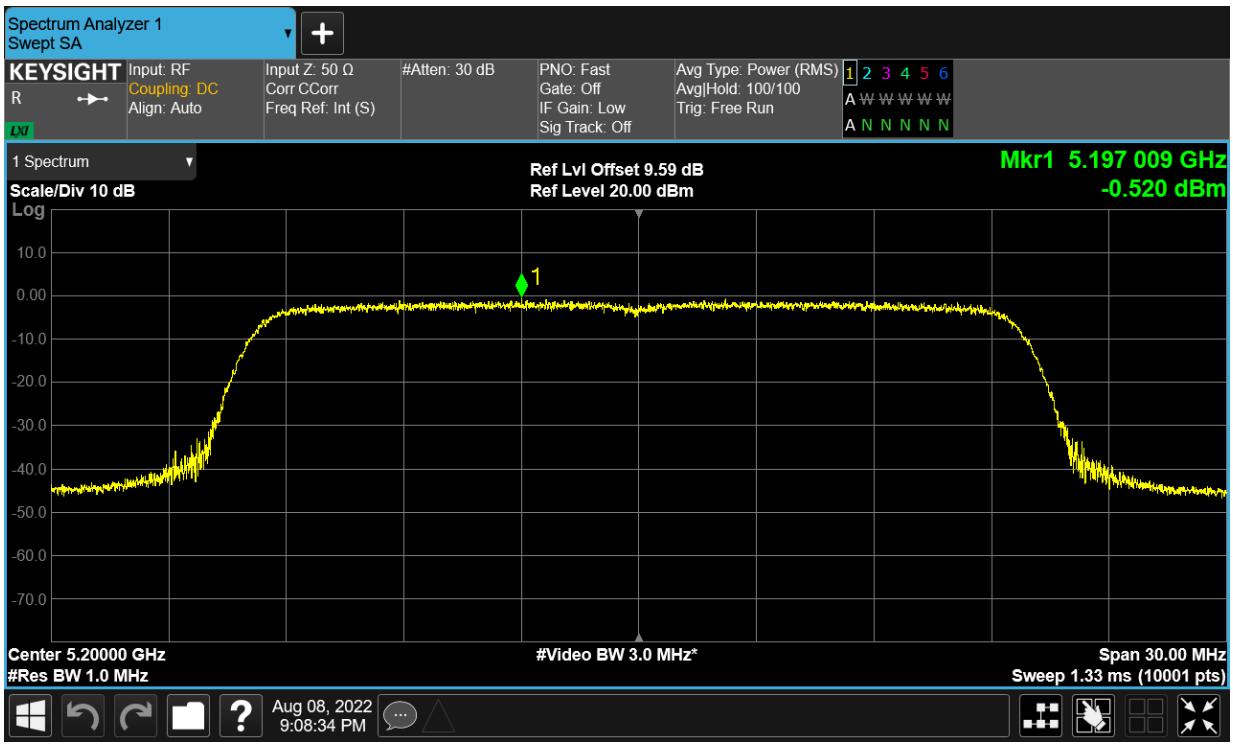
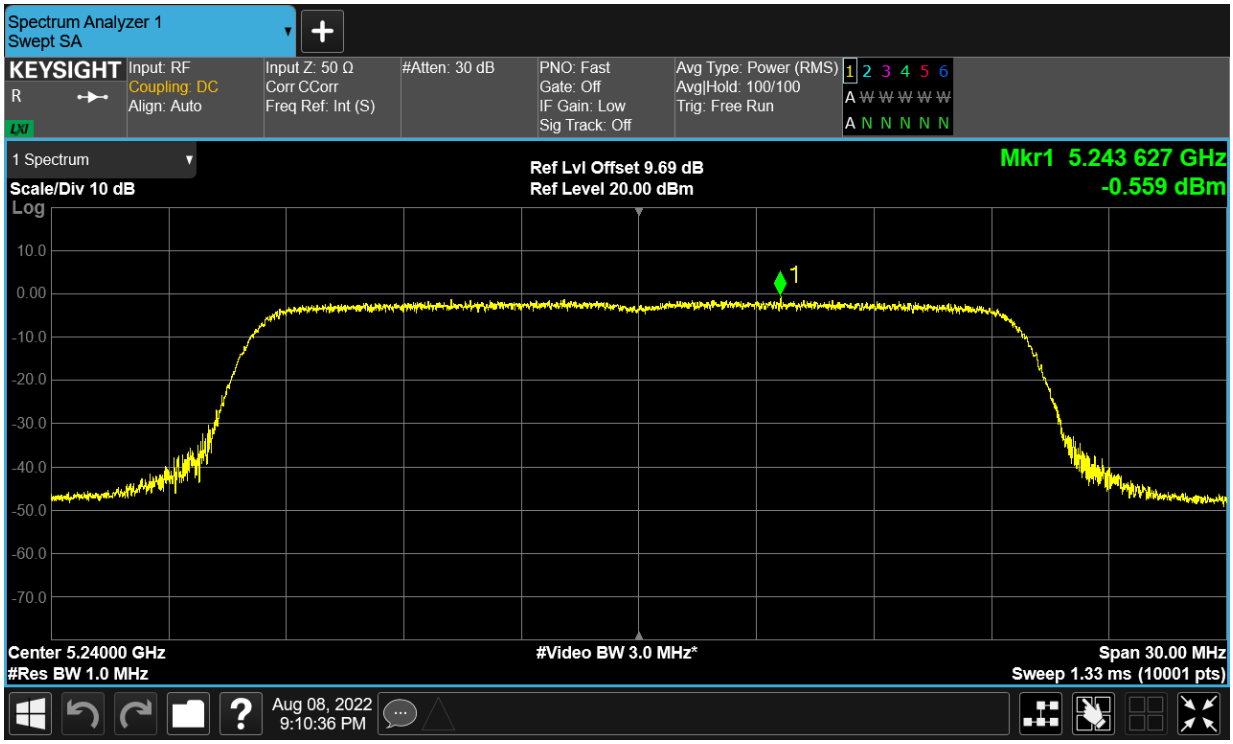


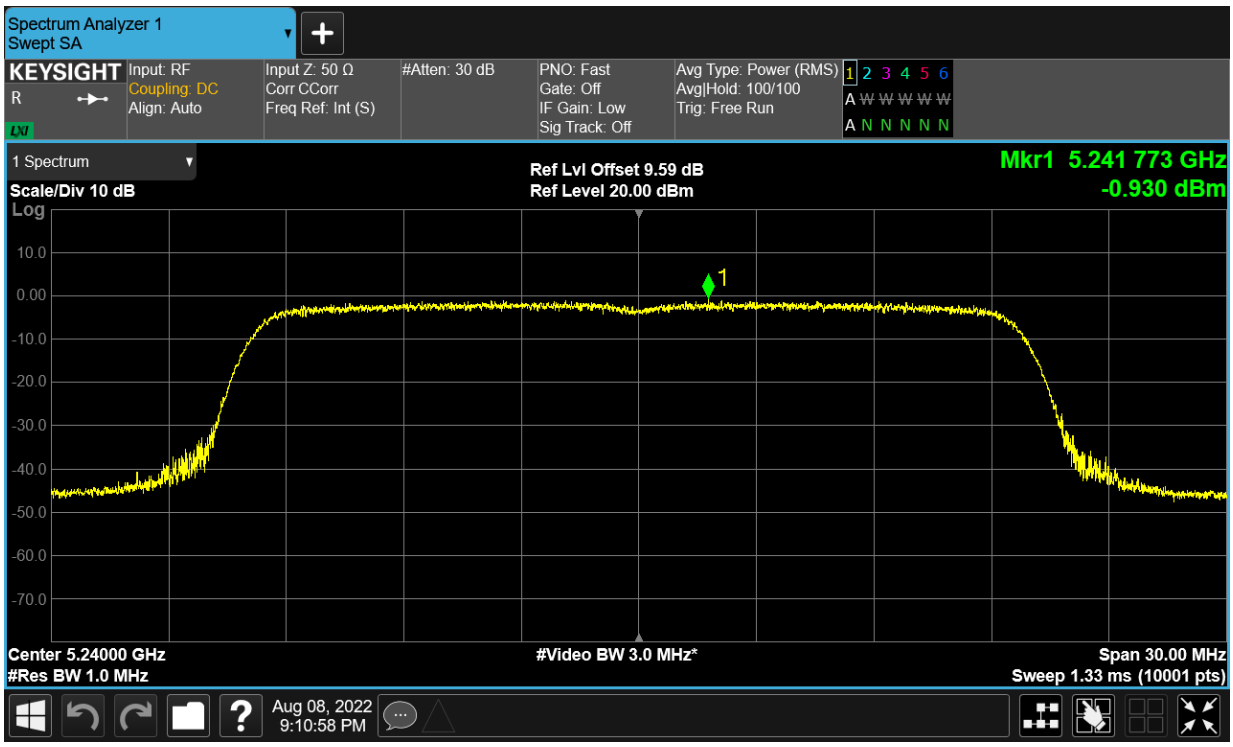
PSD NVNT ax20 5200MHz Ant2



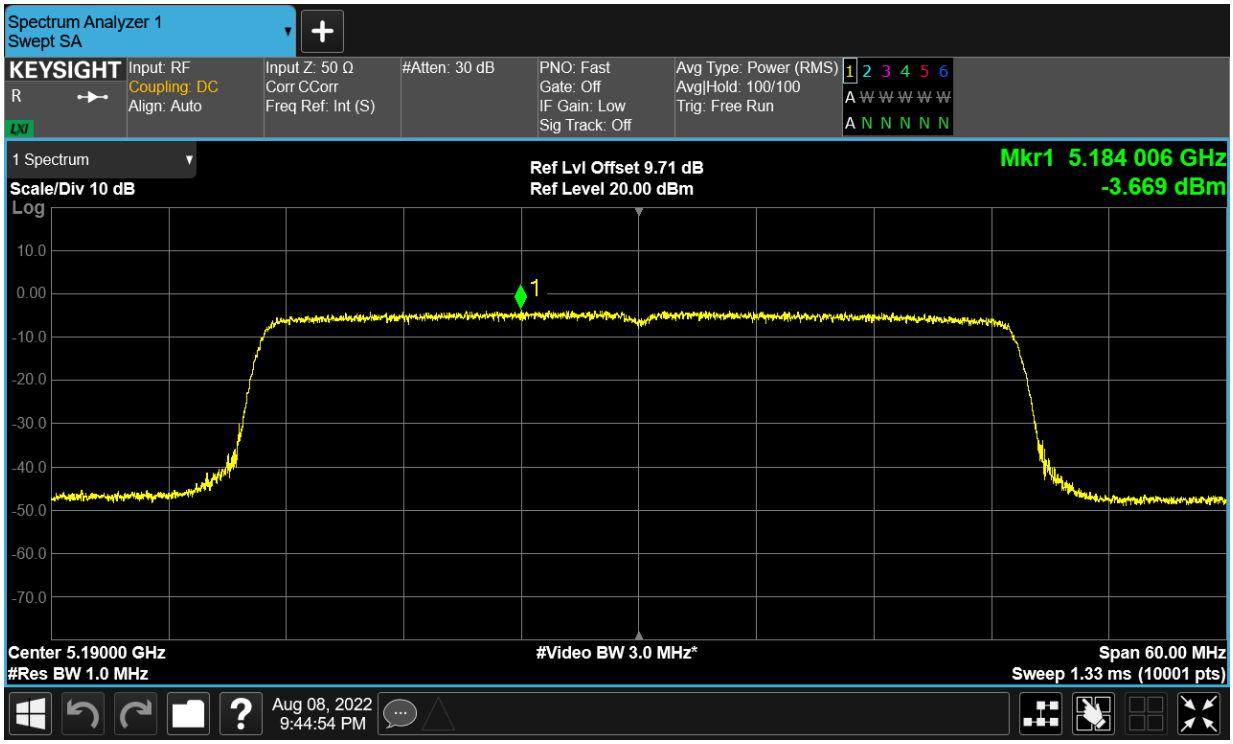
PSD NVNT ax20 5240MHz Ant1



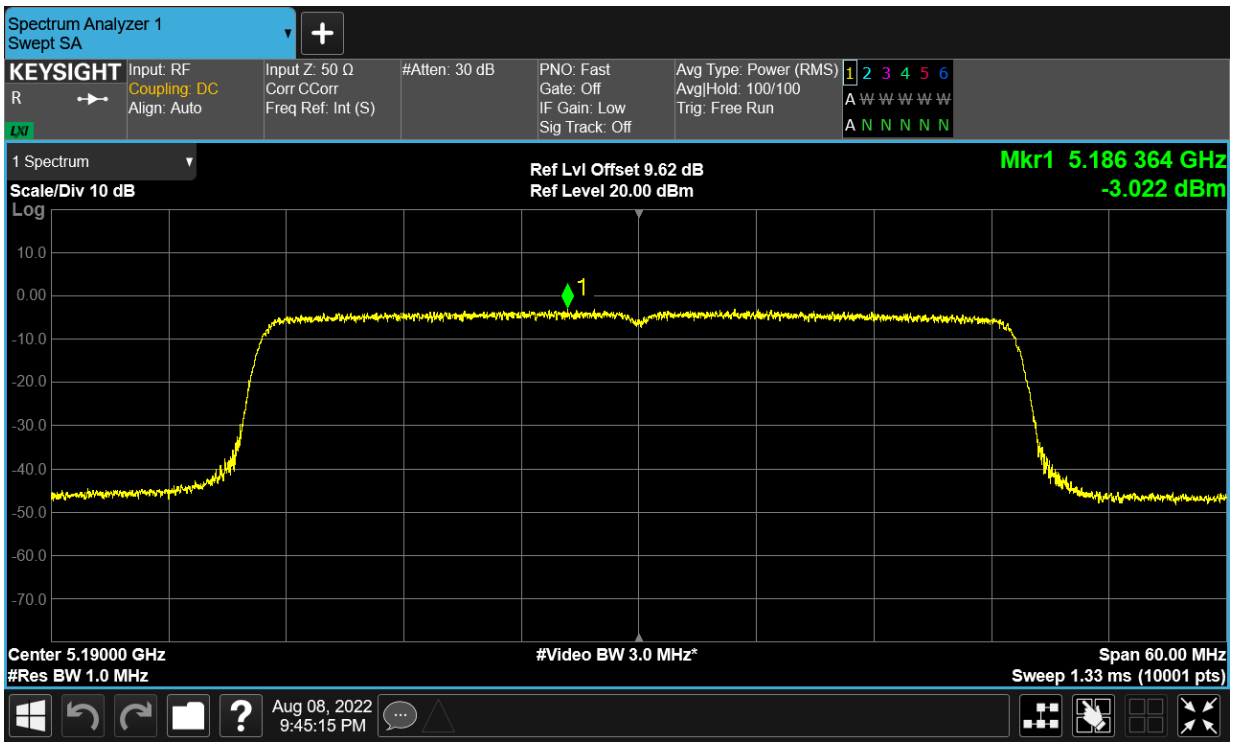
PSD NVNT ax20 5240MHz Ant2



PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5190MHz Ant2



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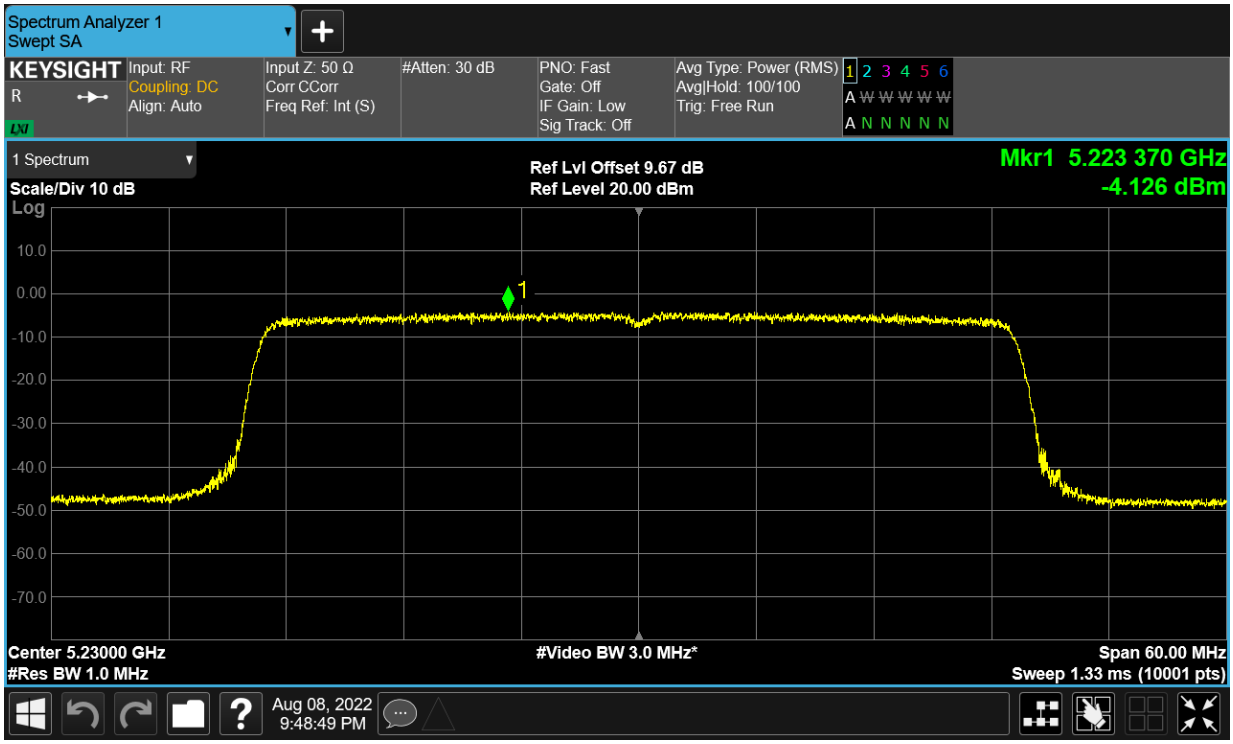

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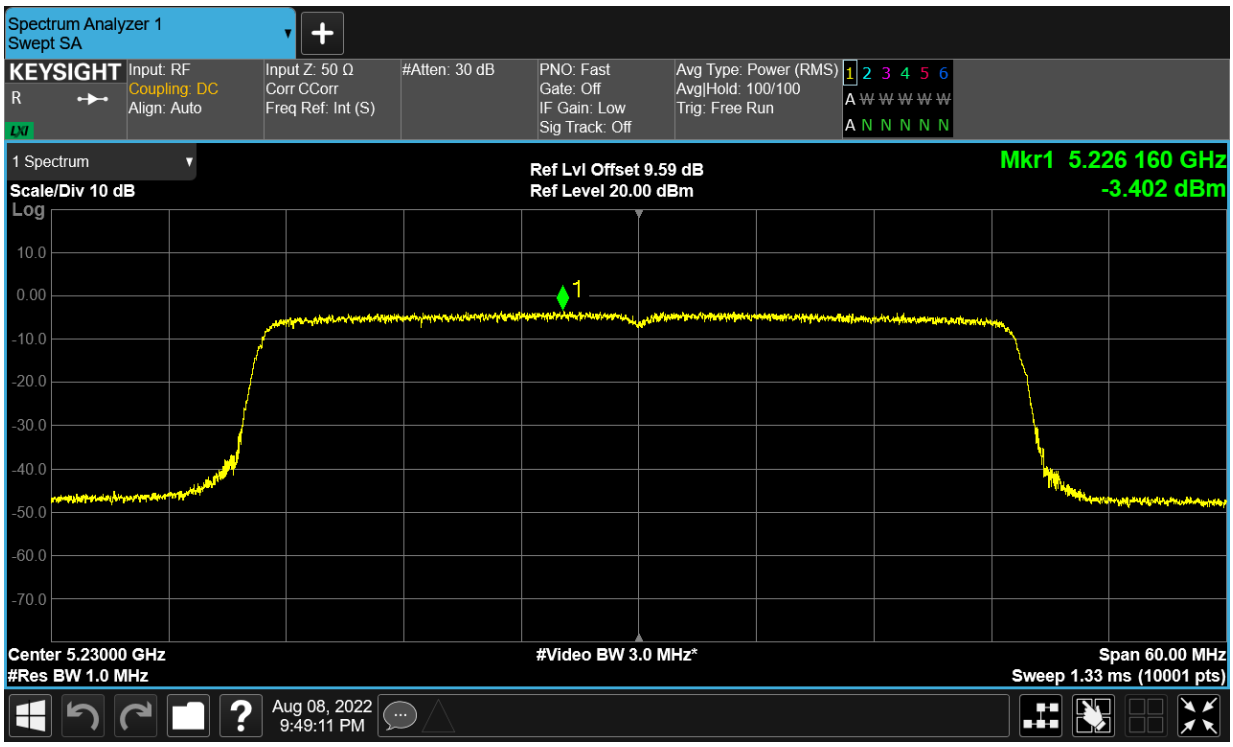

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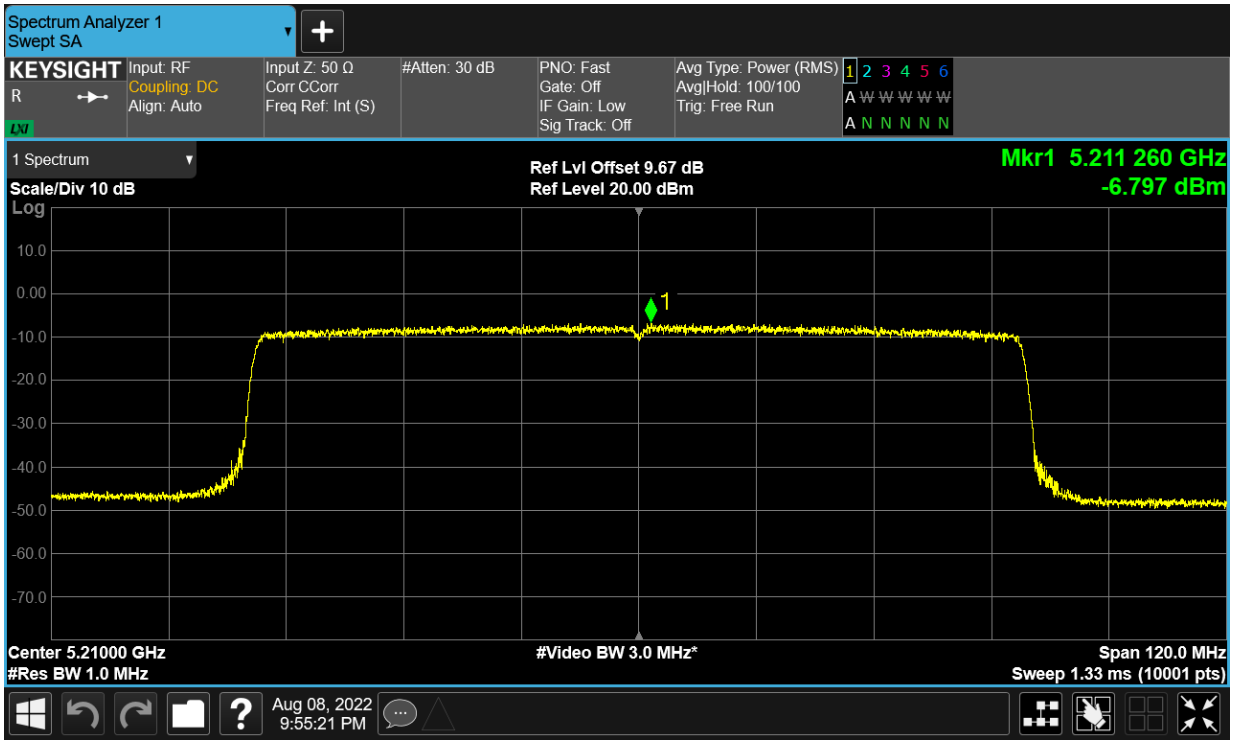
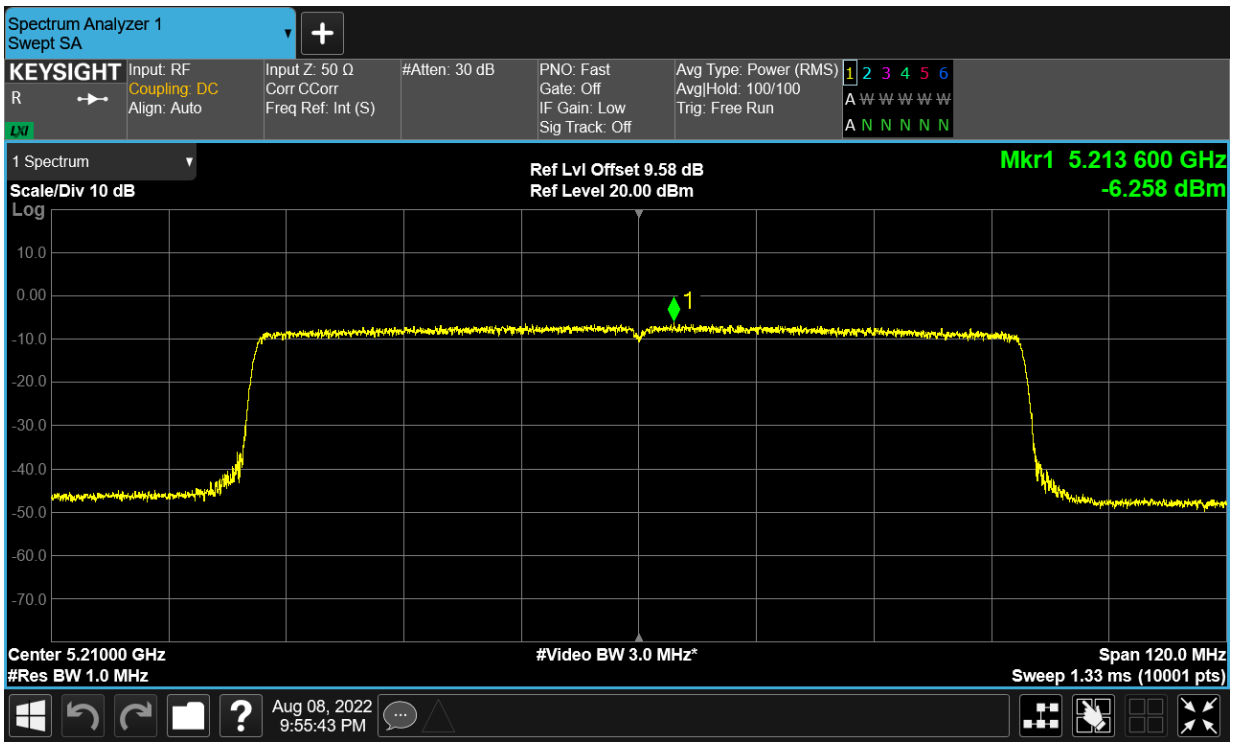


PSD NVNT ax80 5210MHz Ant2



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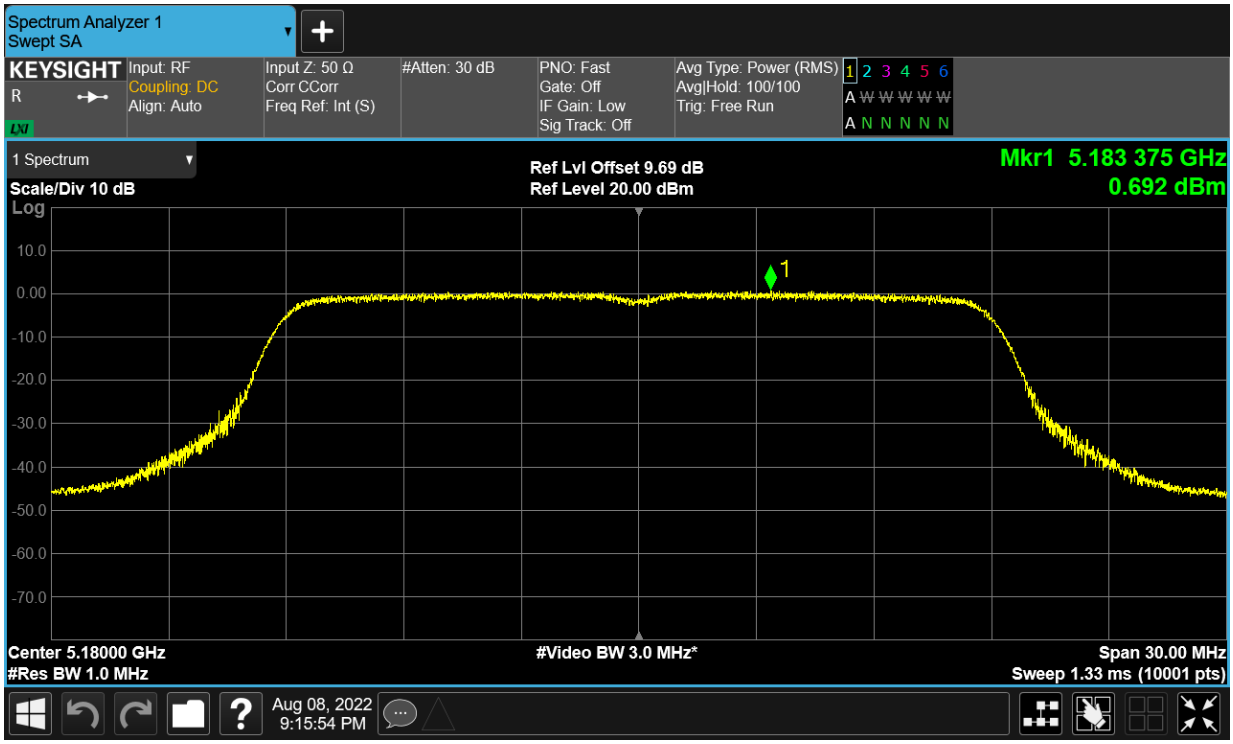
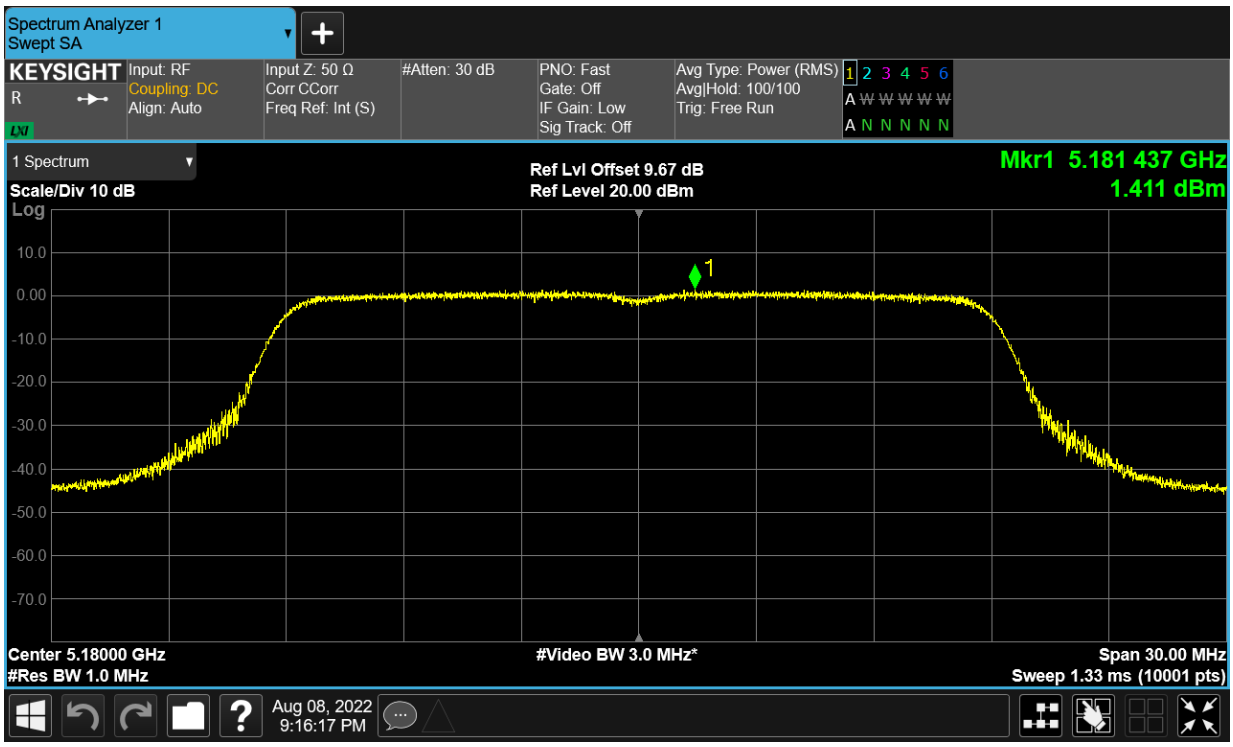
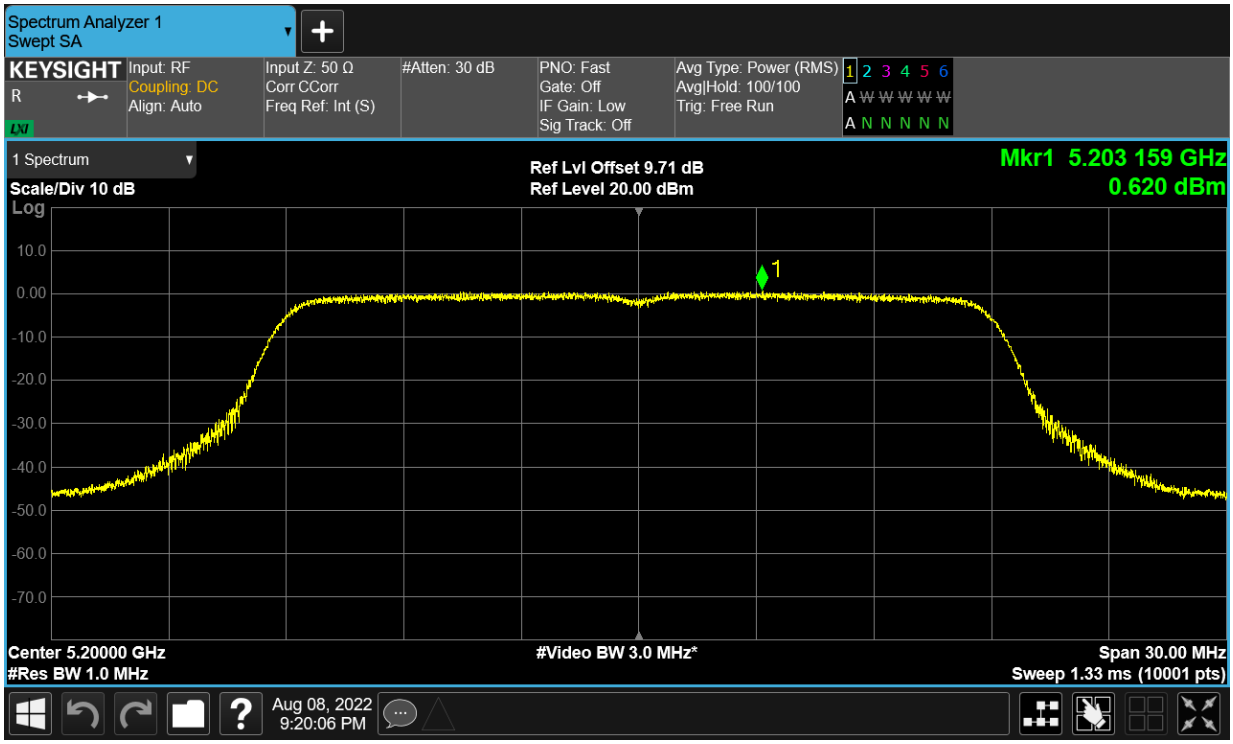


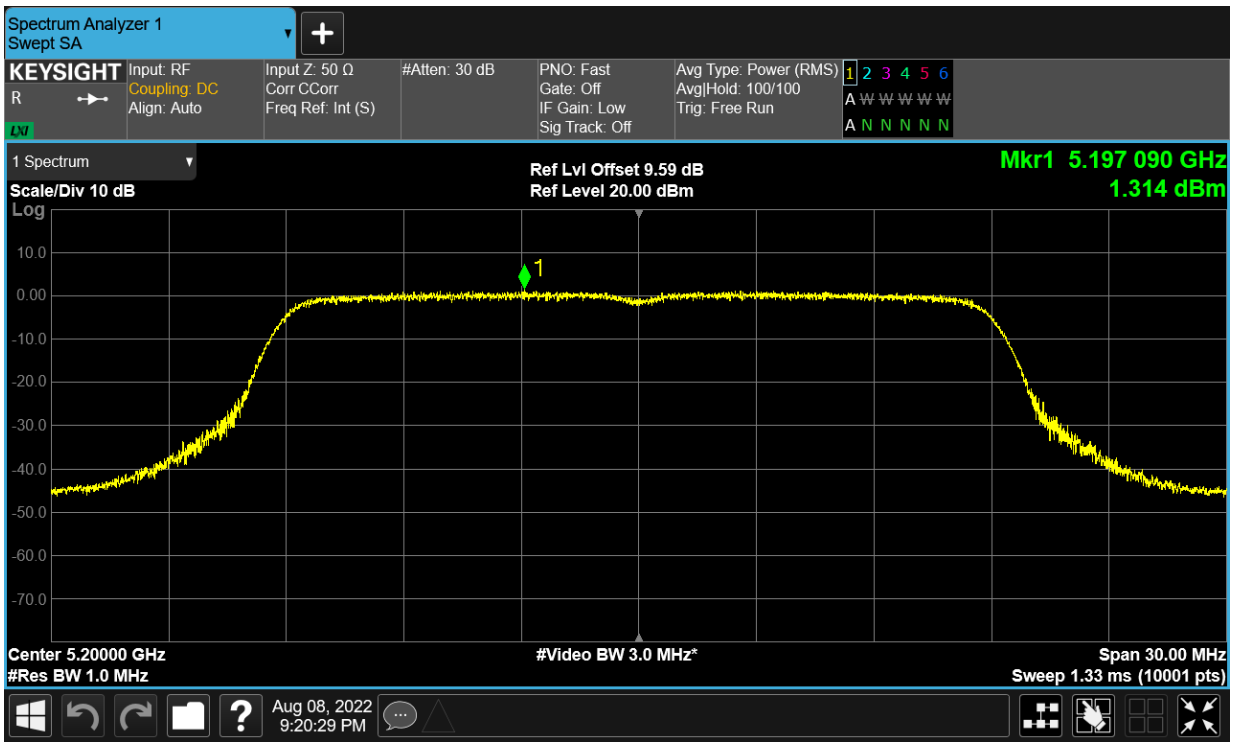
PSD NVNT n20 5180MHz Ant2



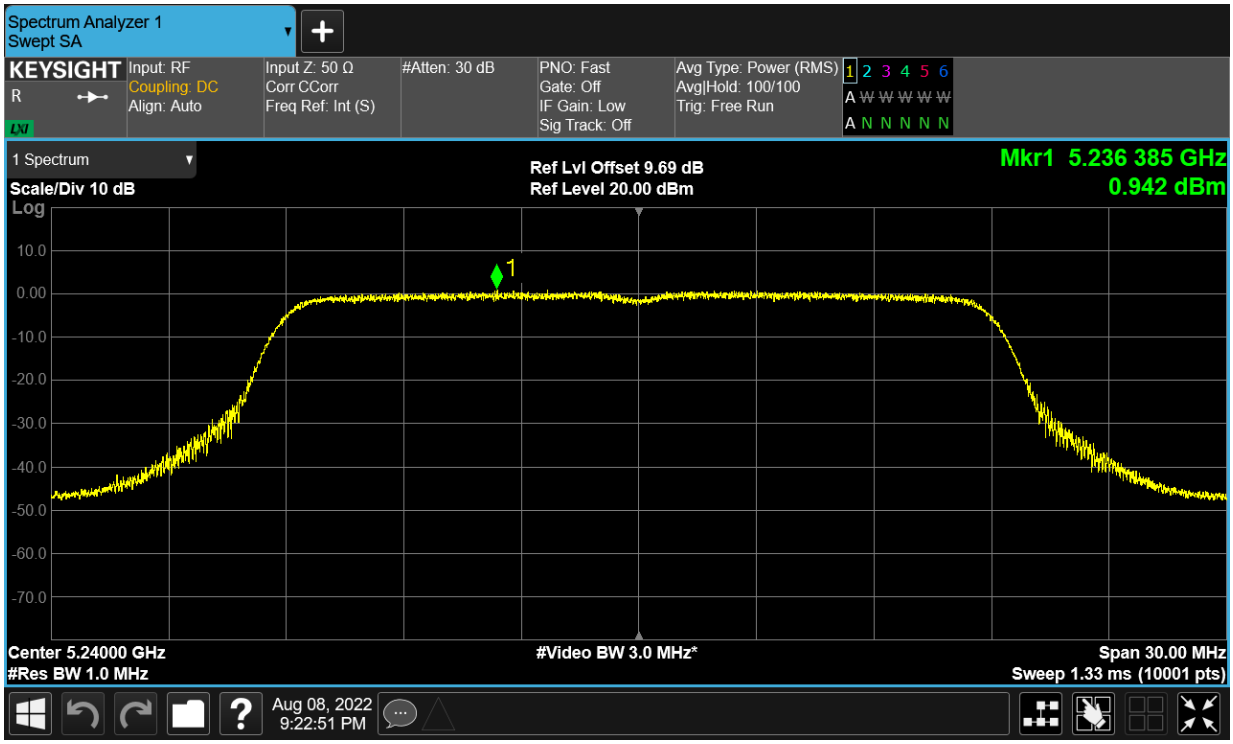
PSD NVNT n20 5200MHz Ant1



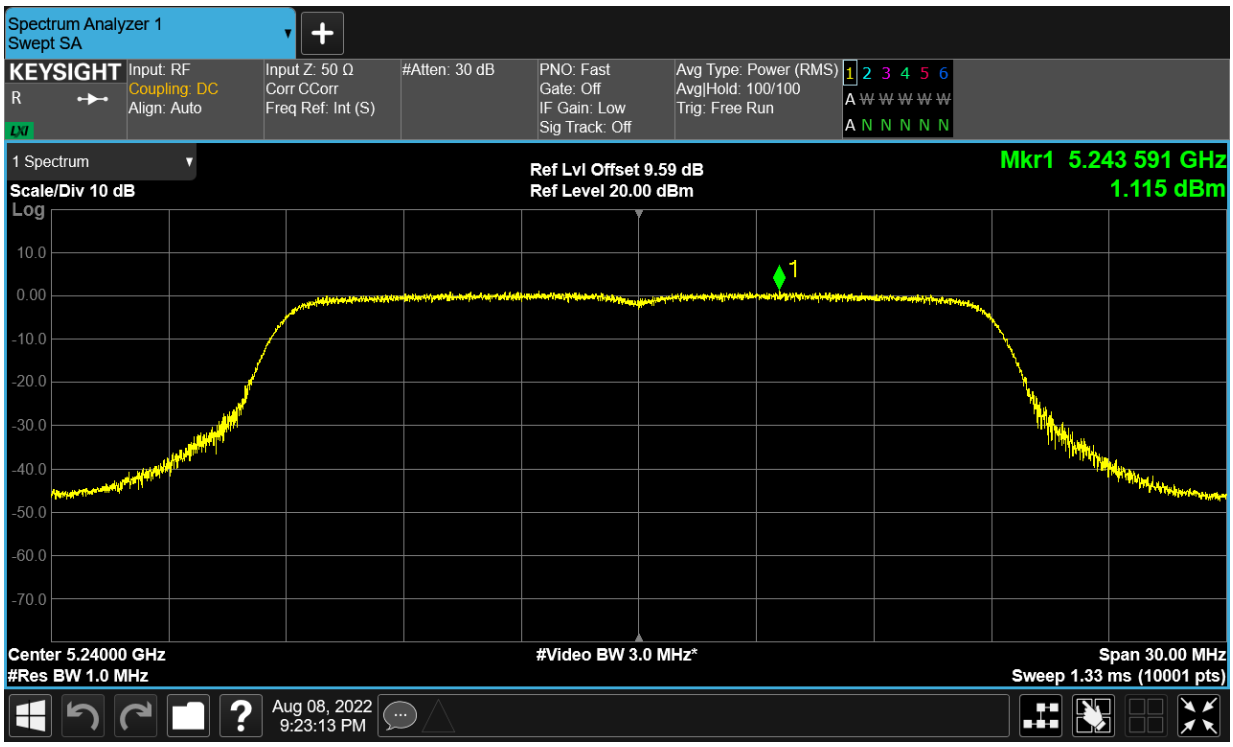
PSD NVNT n20 5200MHz Ant2



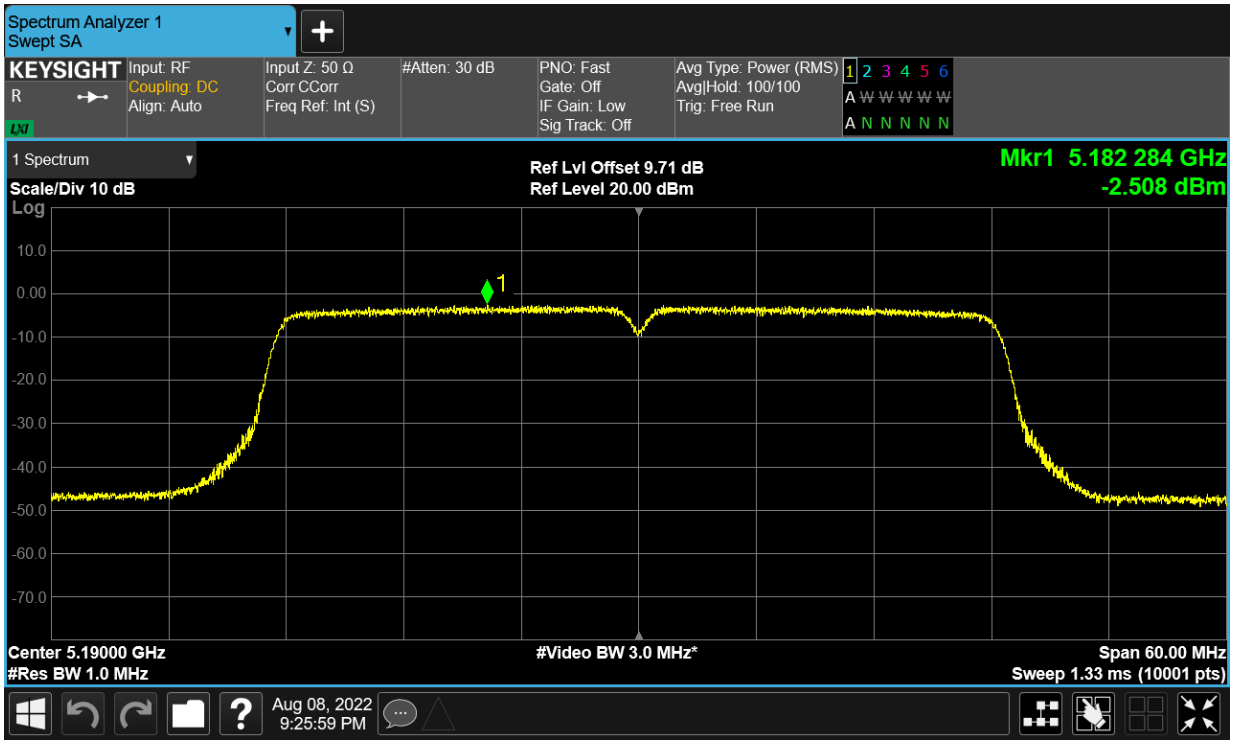
PSD NVNT n20 5240MHz Ant1



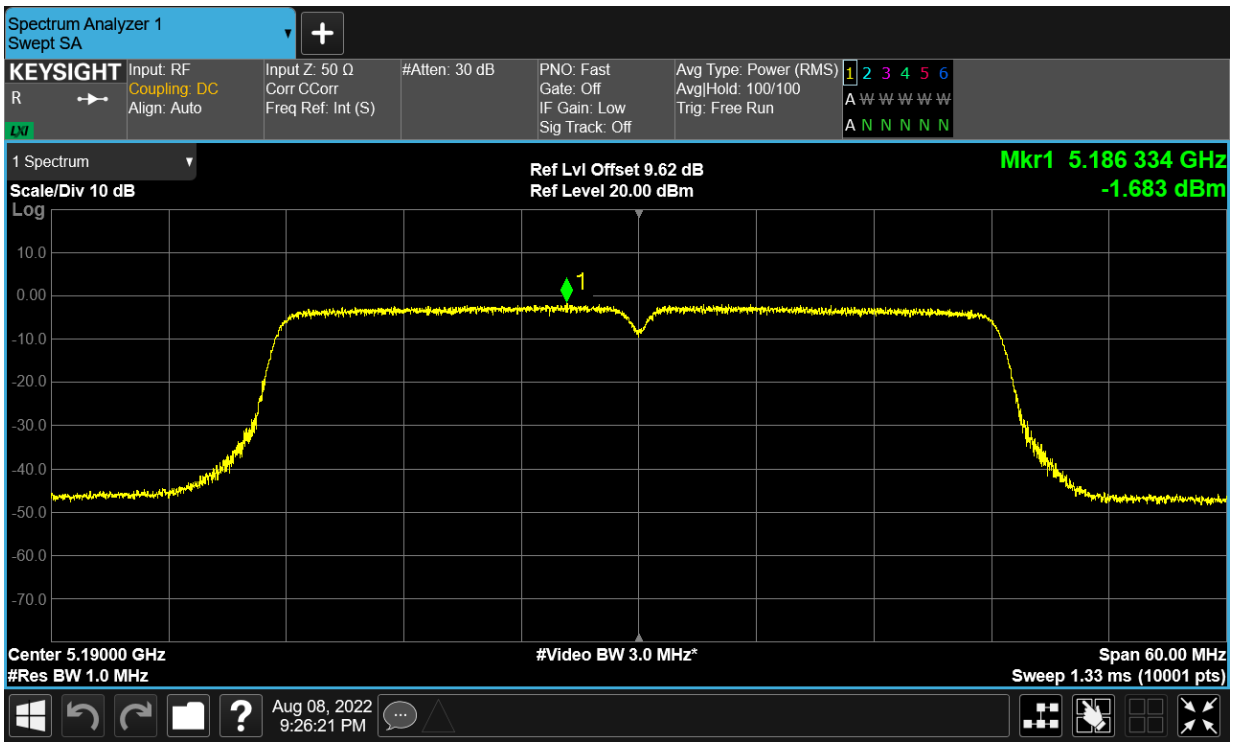
PSD NVNT n20 5240MHz Ant2



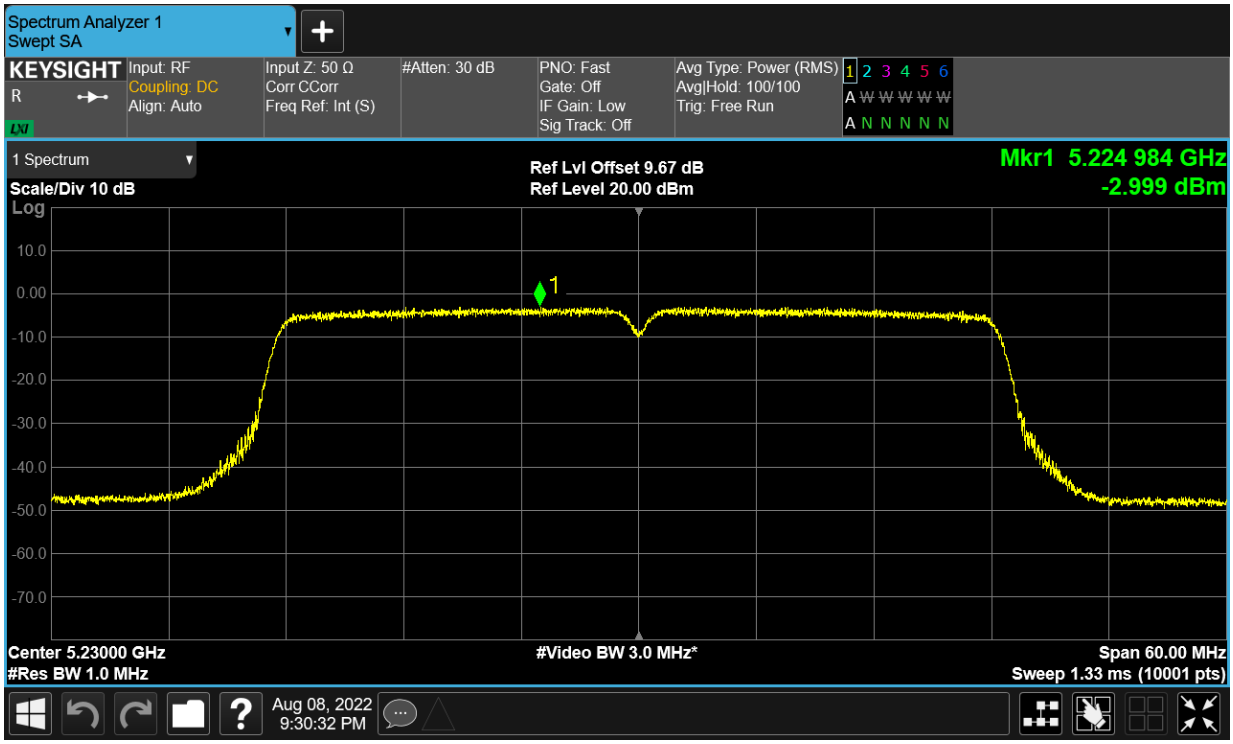
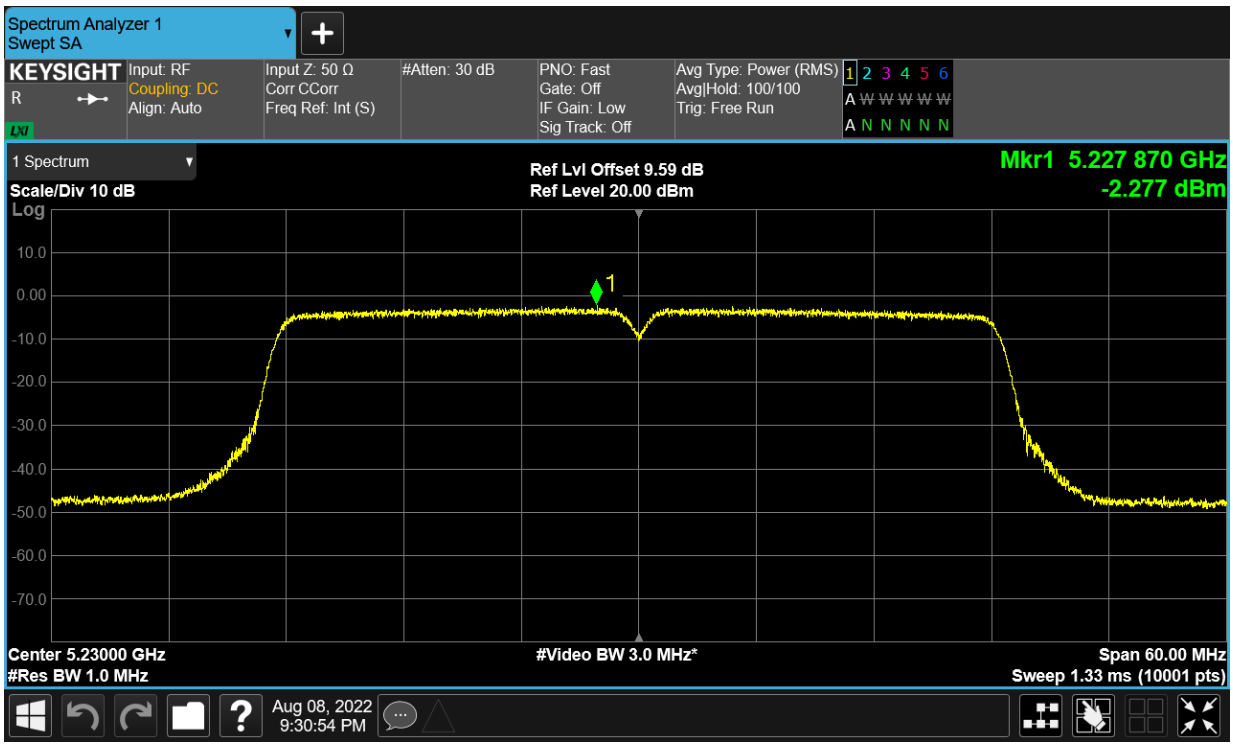
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2