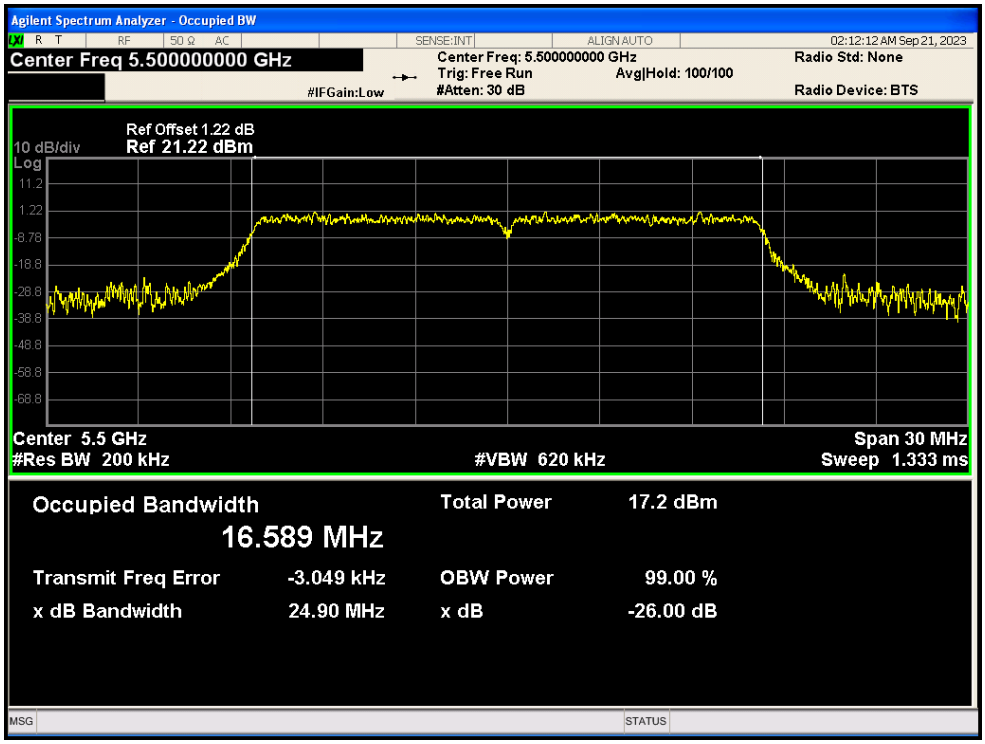
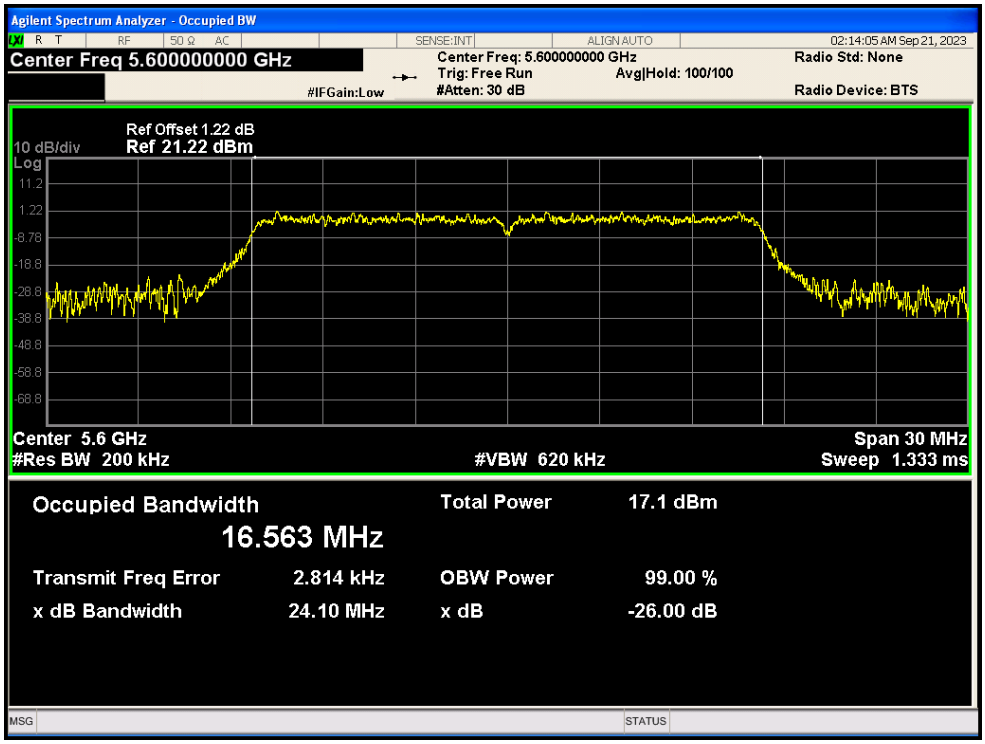
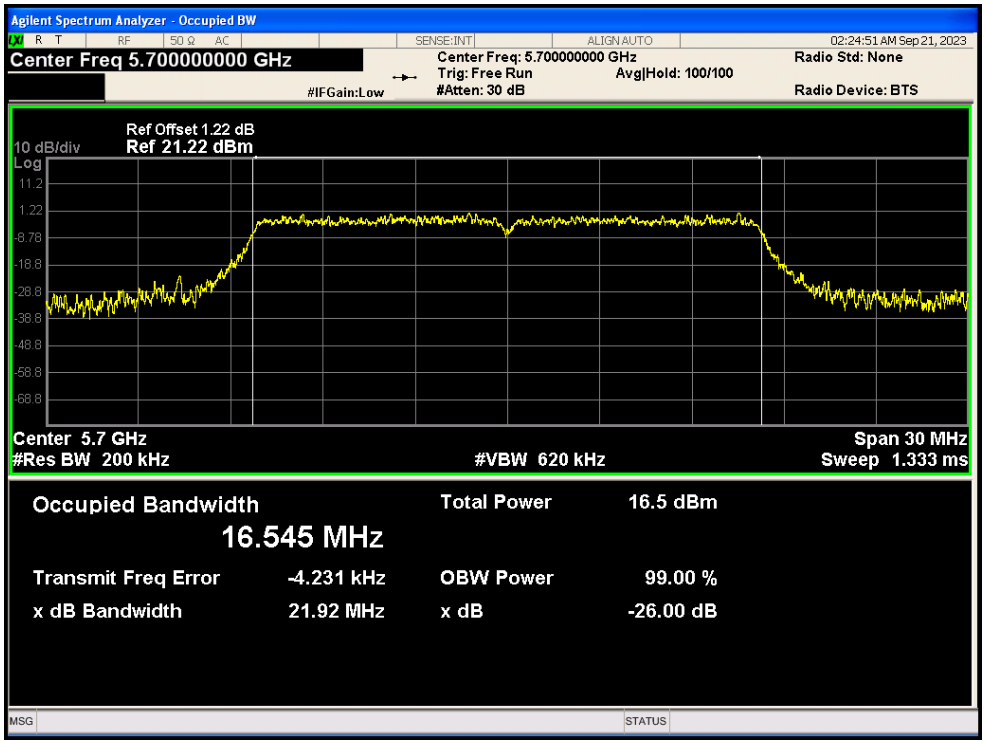


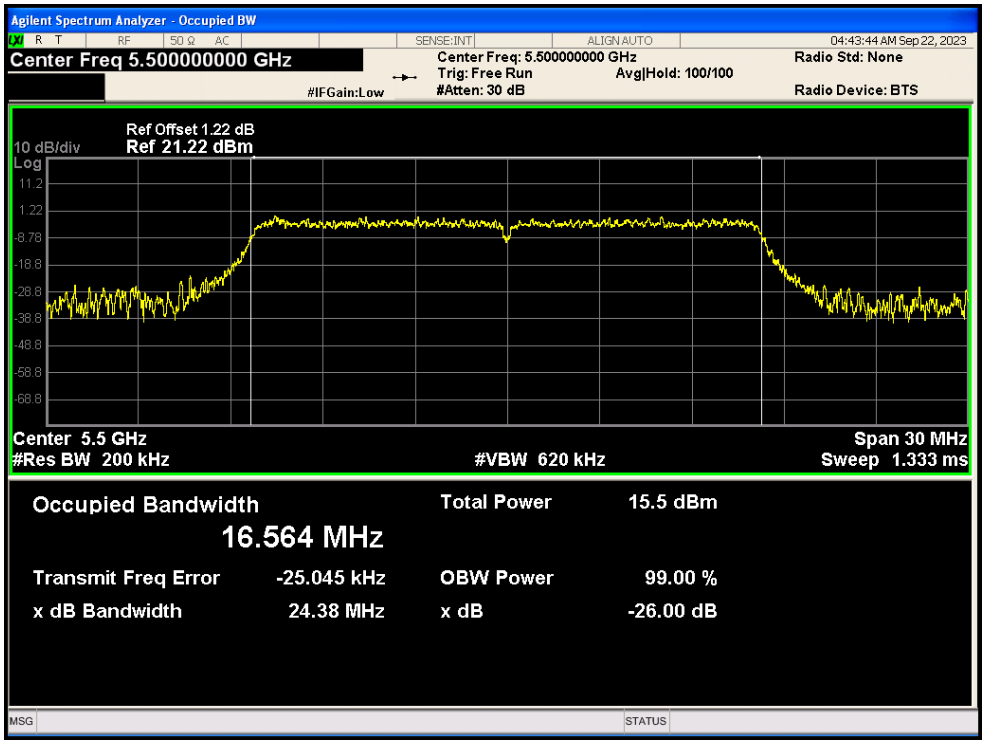
OBW NVNT a 5600MHz Ant1



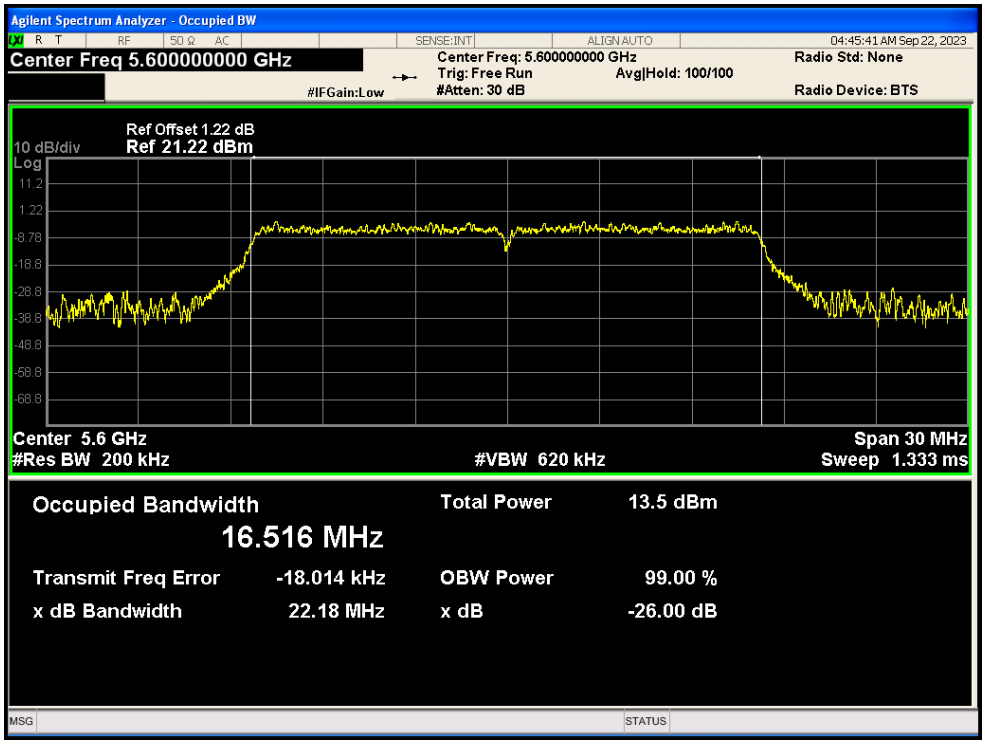
OBW NVNT a 5700MHz Ant1



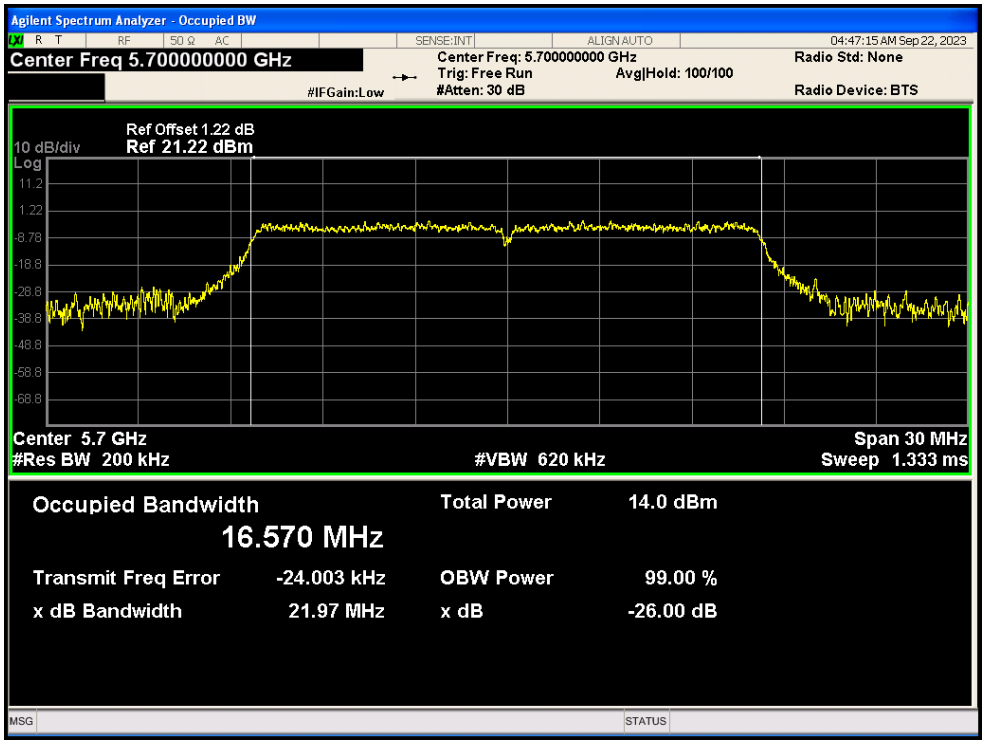
OBW NVNT a 5500MHz Ant2



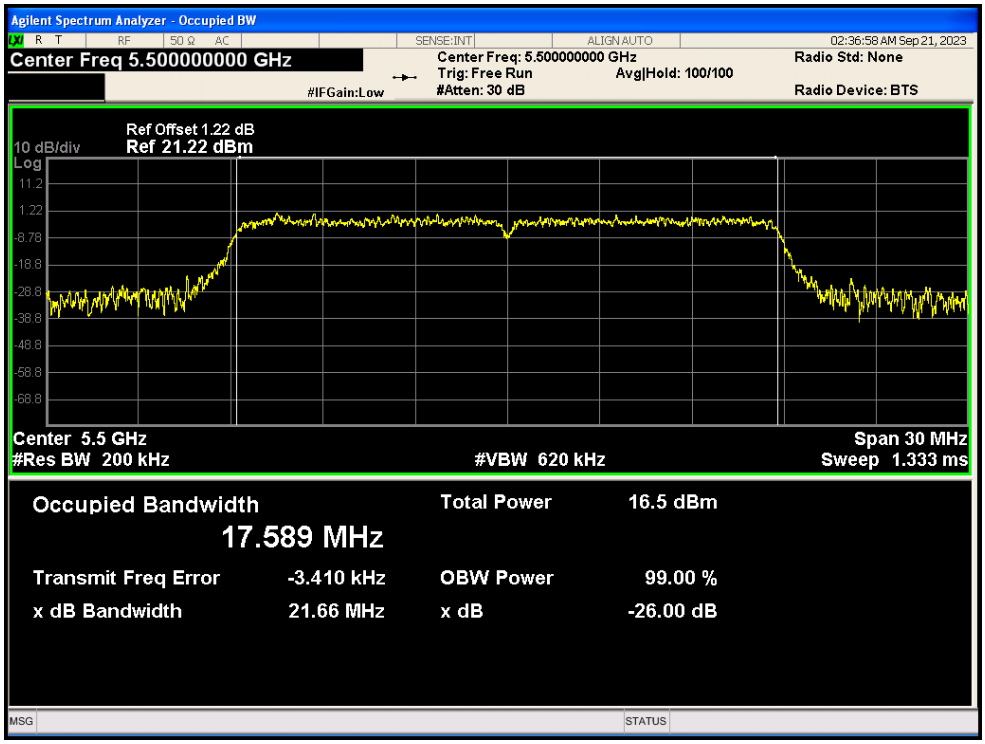
OBW NVNT a 5600MHz Ant2



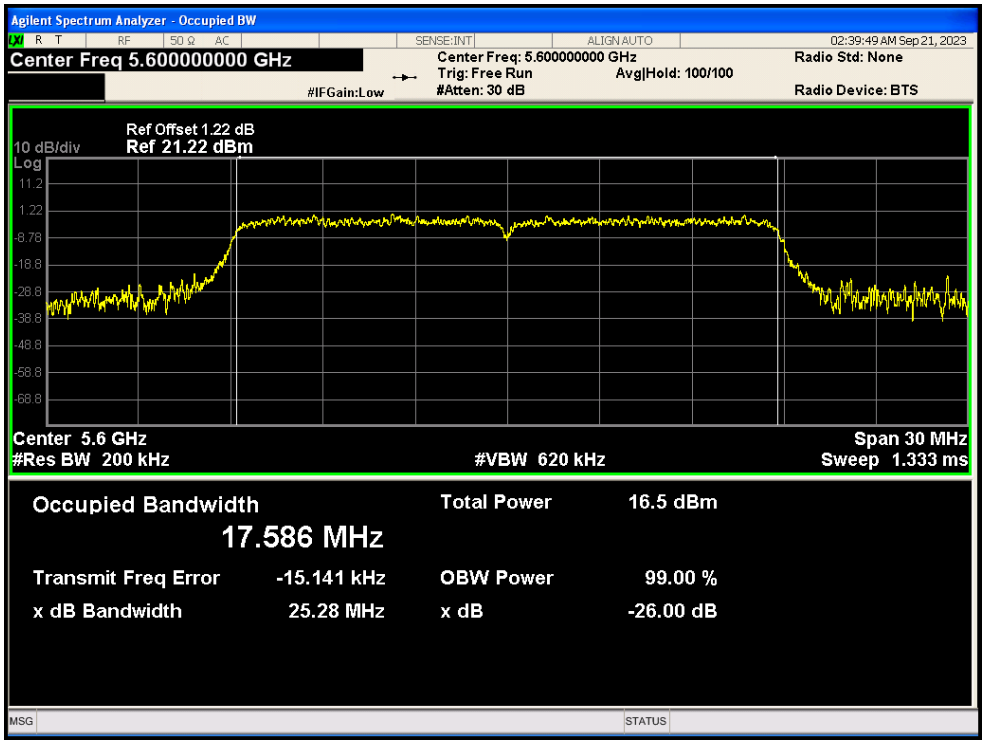
OBW NVNT a 5700MHz Ant2



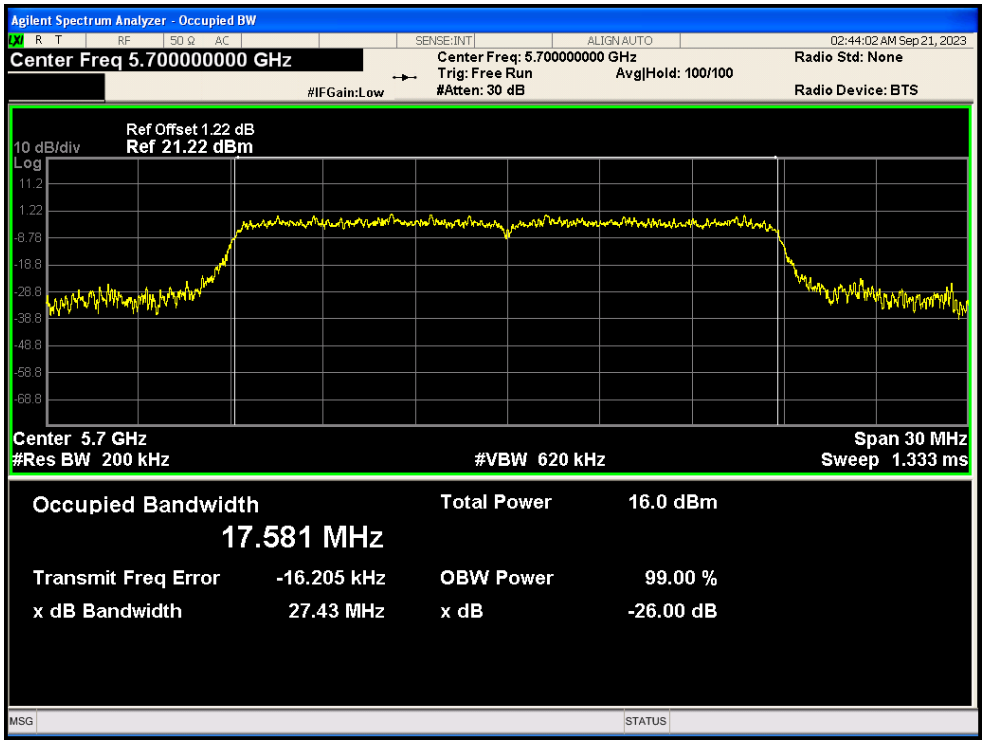
OBW NVNT ac20 5500MHz Ant1



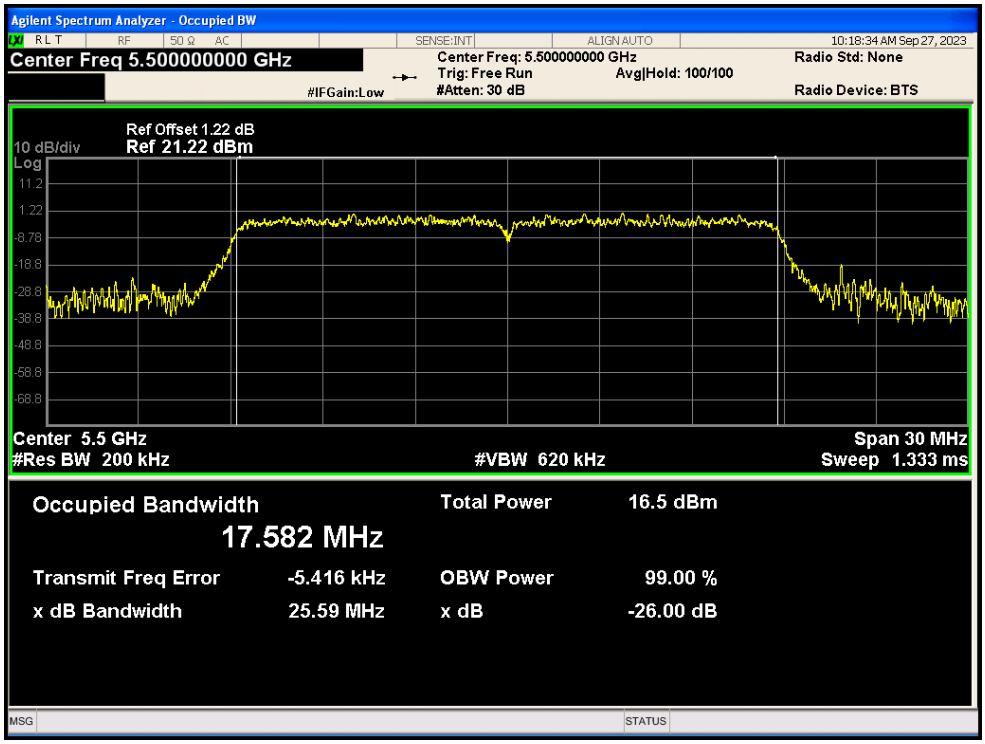
OBW NVNT ac20 5600MHz Ant1



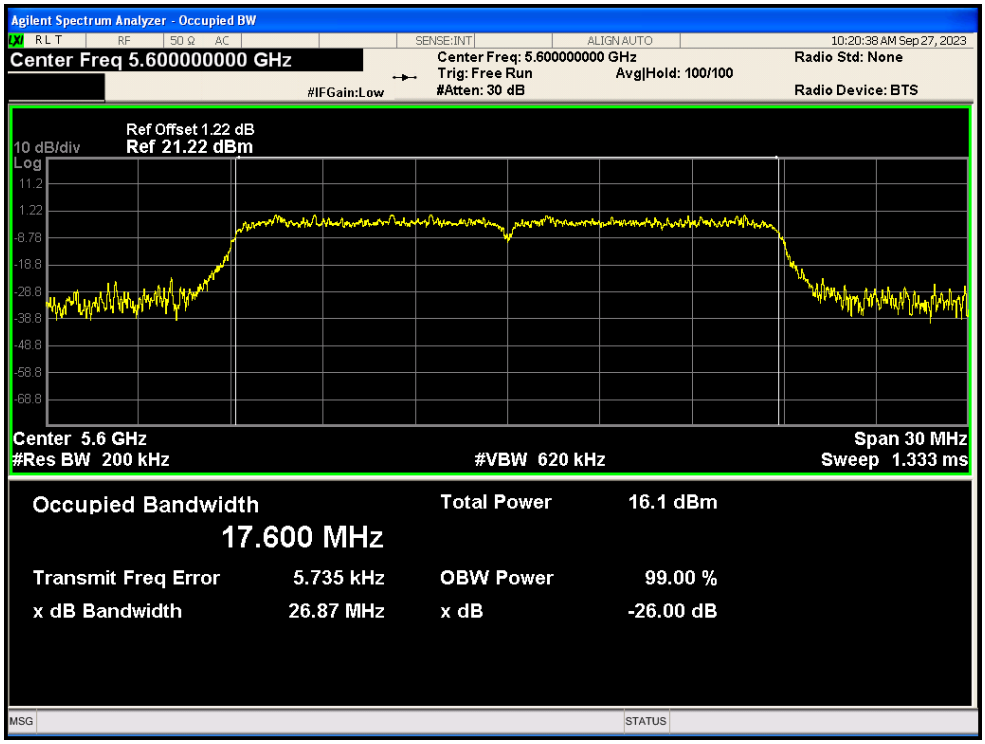
OBW NVNT ac20 5700MHz Ant1



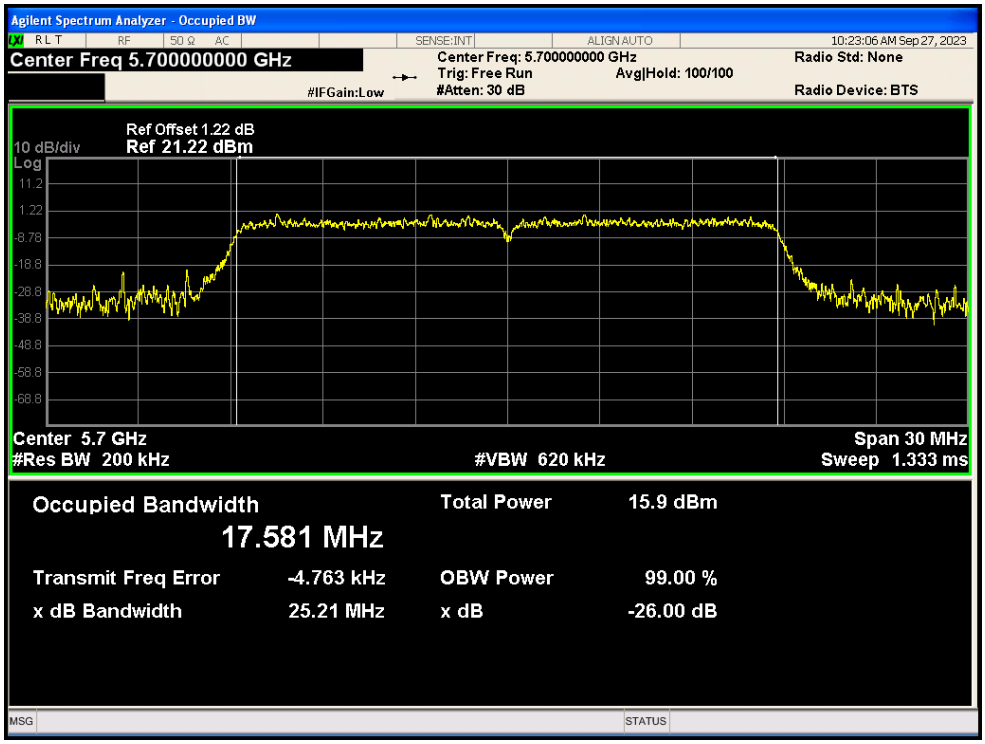
OBW NVNT ac20 5500MHz Ant2



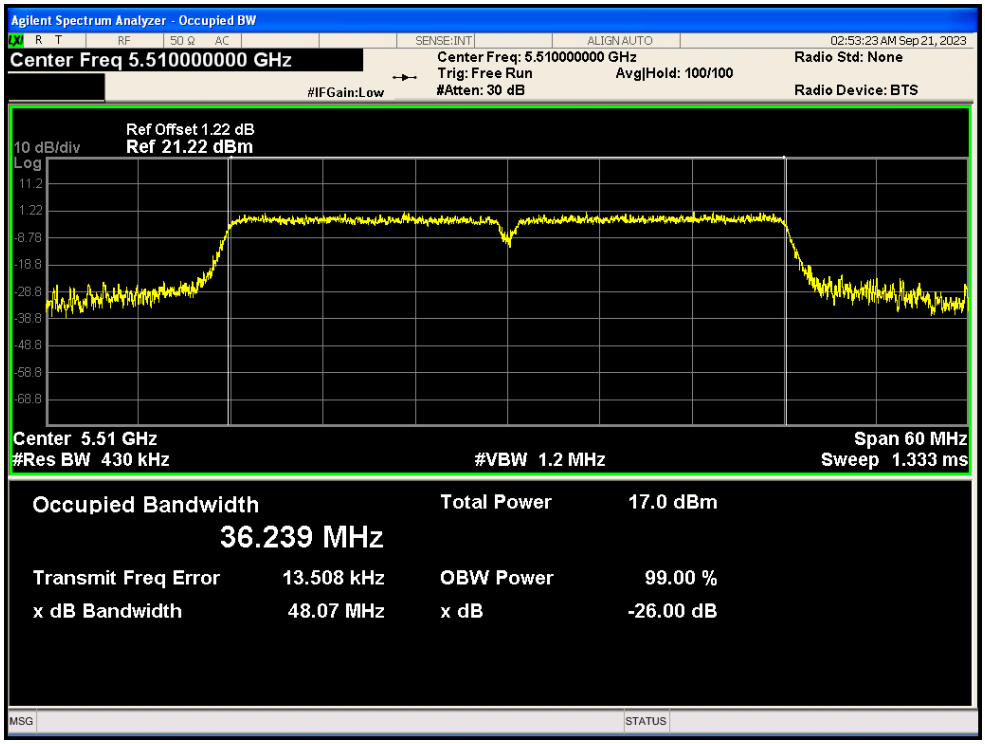
OBW NVNT ac20 5600MHz Ant2



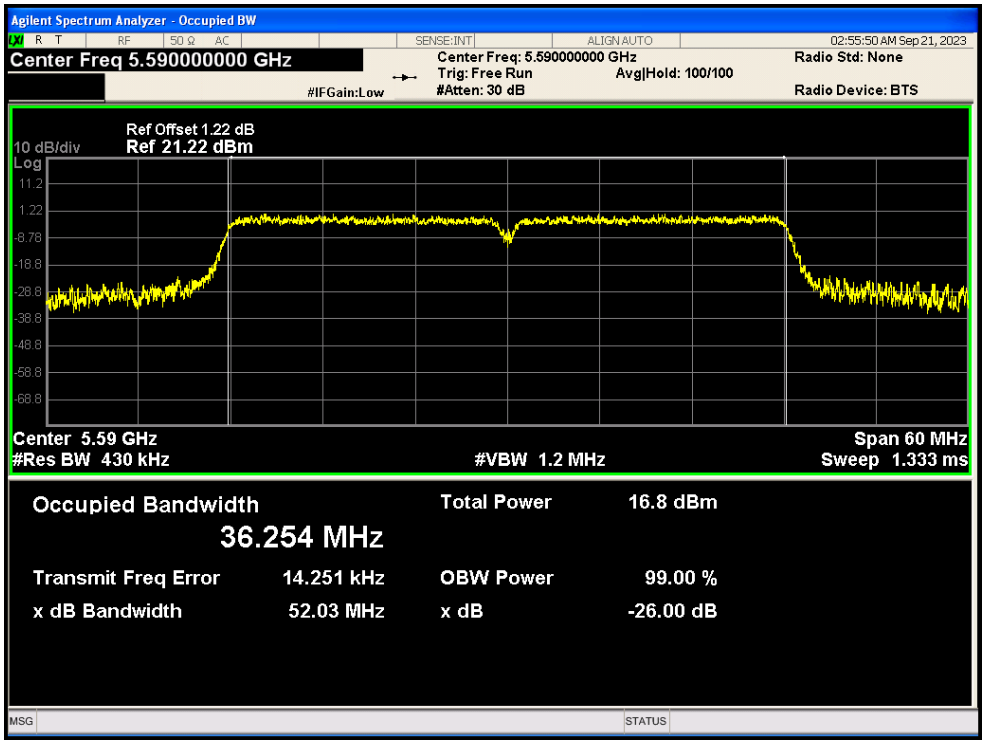
OBW NVNT ac20 5700MHz Ant2



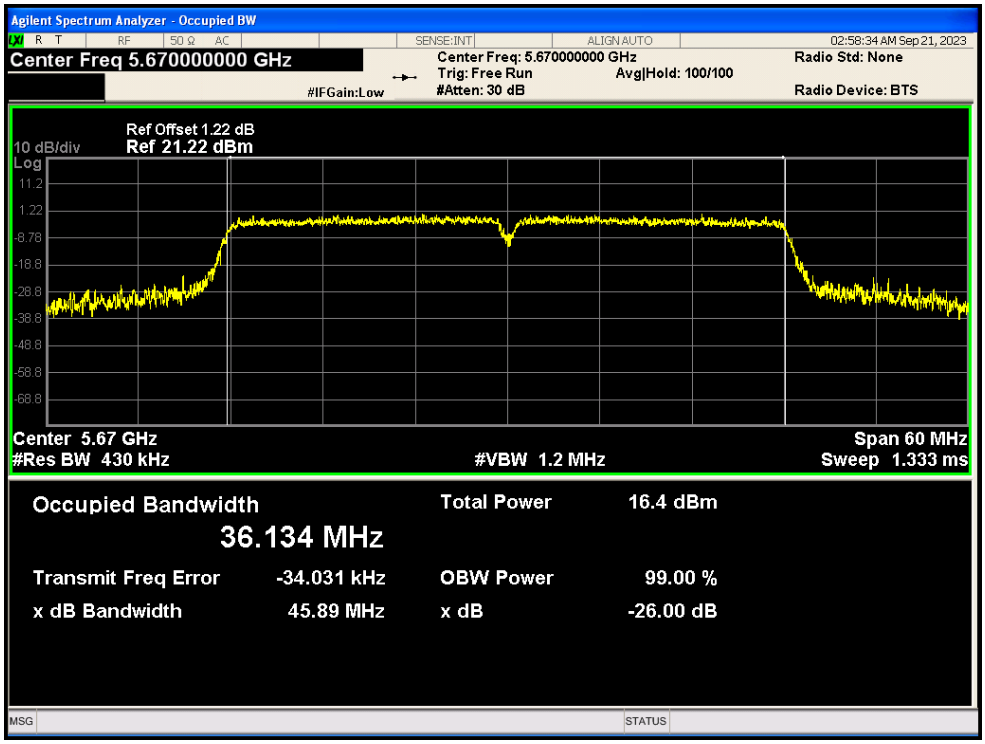
OBW NVNT ac40 5510MHz Ant1



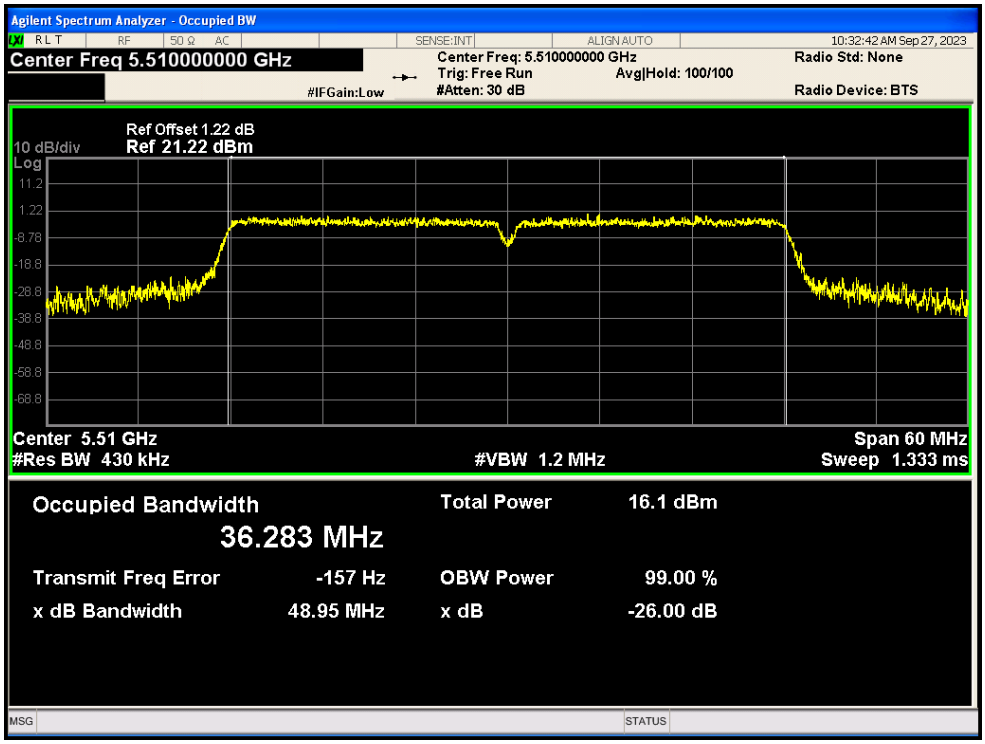
OBW NVNT ac40 5590MHz Ant1



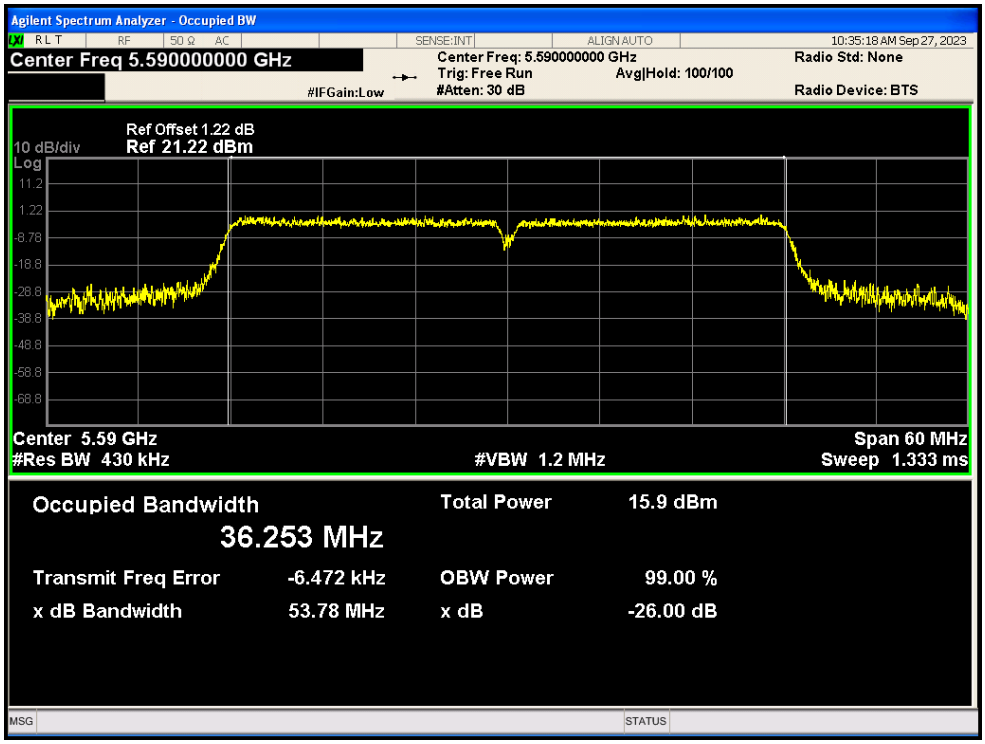
OBW NVNT ac40 5670MHz Ant1



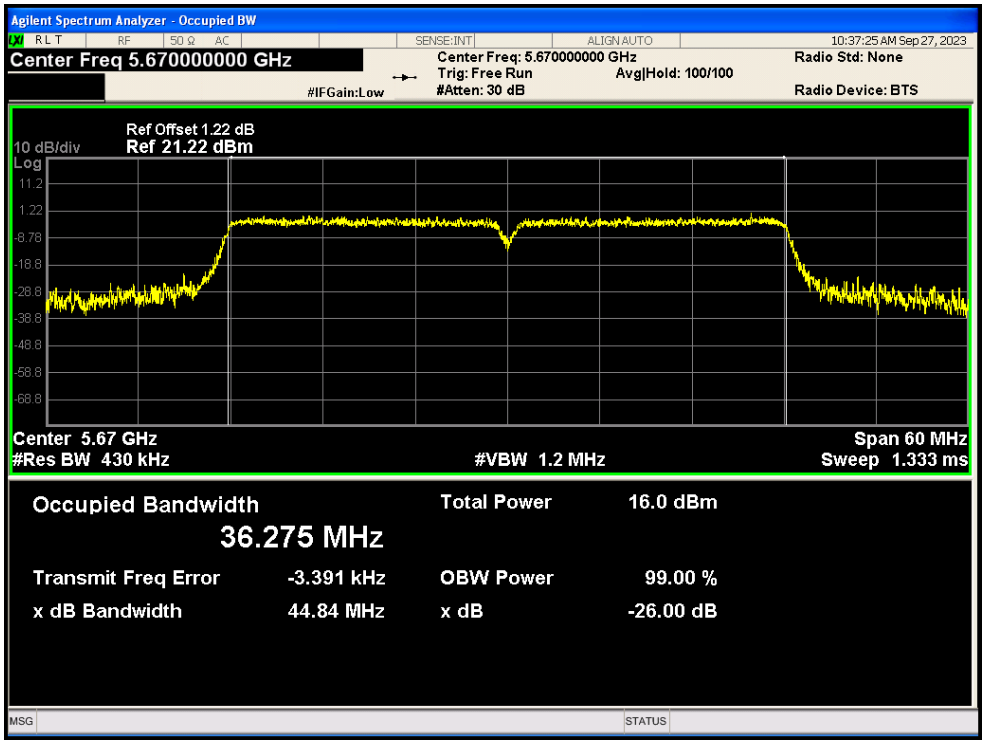
OBW NVNT ac40 5510MHz Ant2



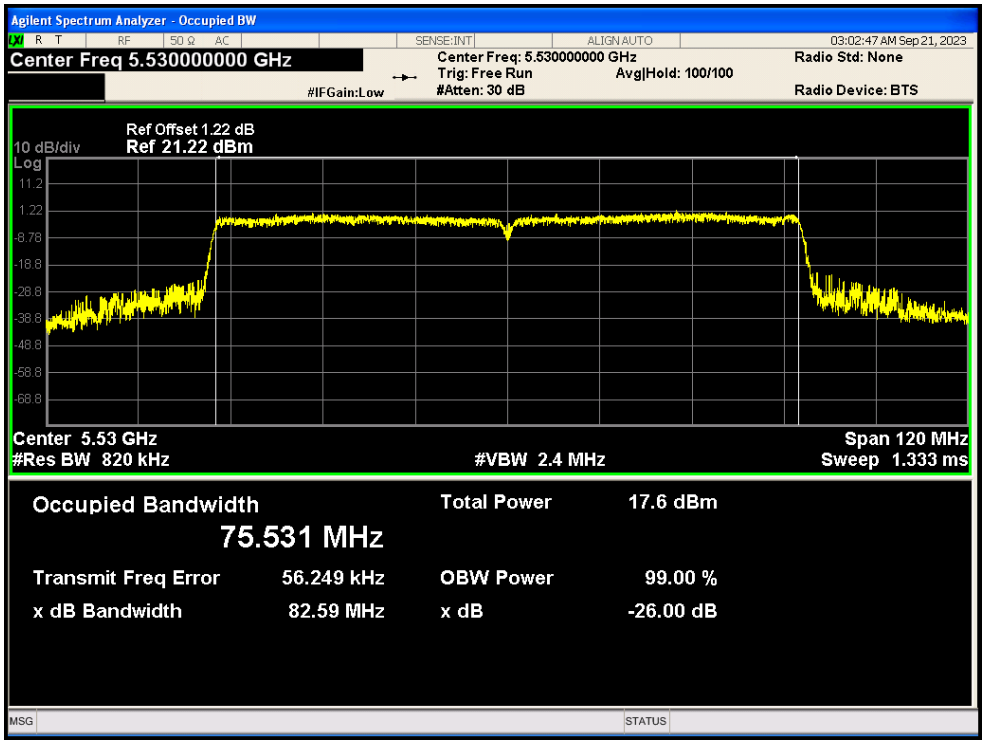
OBW NVNT ac40 5590MHz Ant2



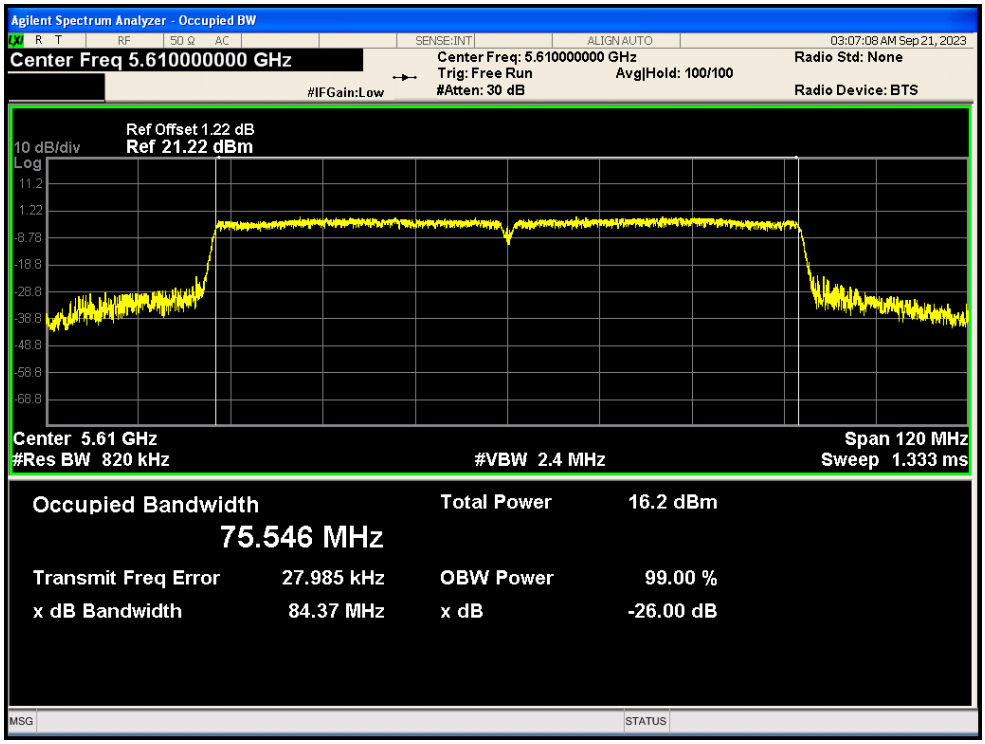
OBW NVNT ac40 5670MHz Ant2



OBW NVNT ac80 5530MHz Ant1



OBW NVNT ac80 5610MHz Ant1



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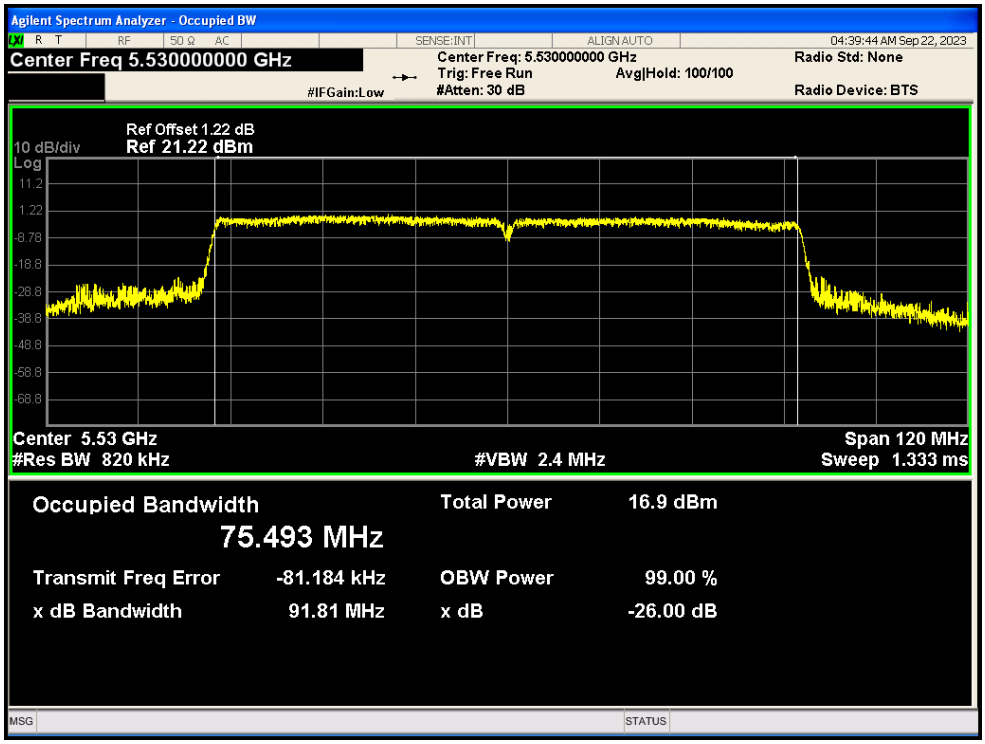
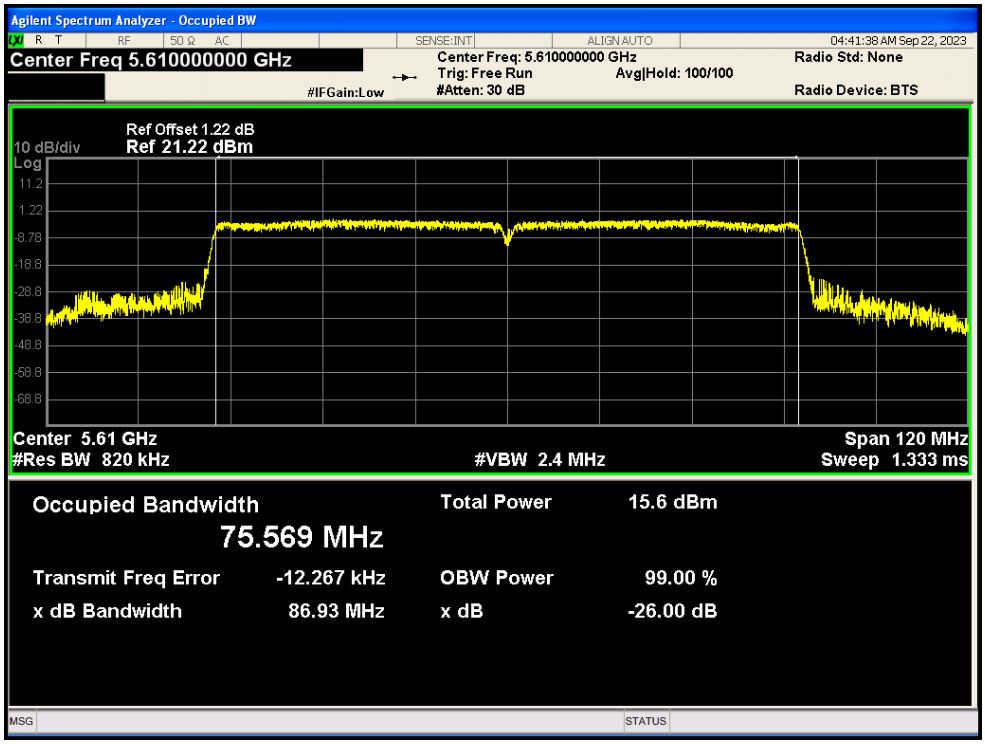
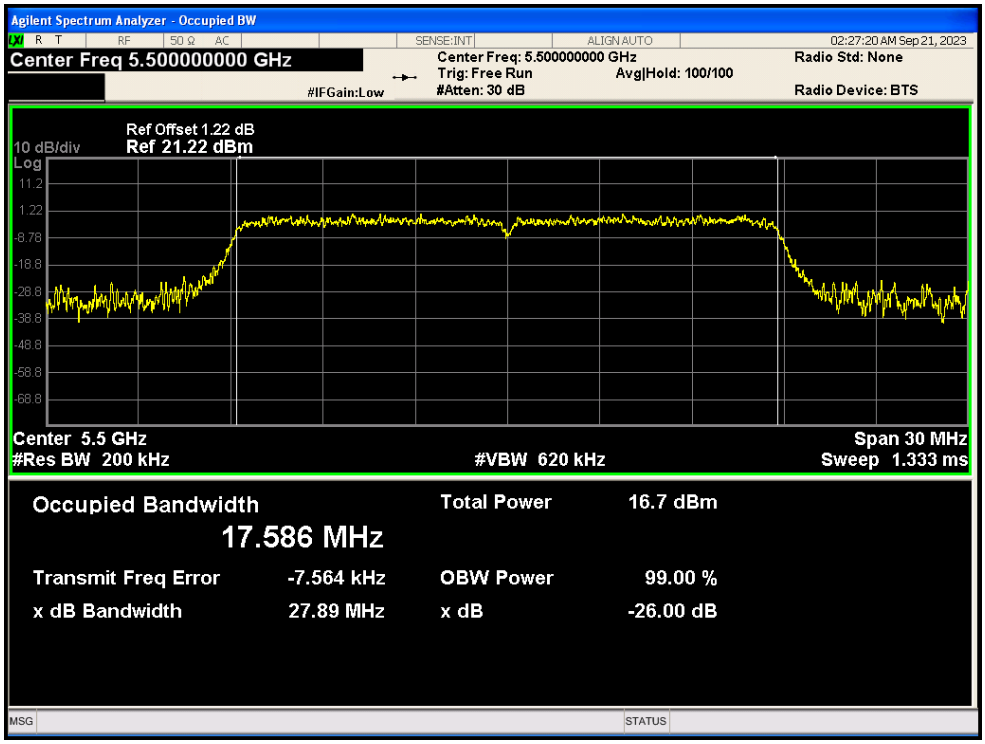


OBW NVNT ac80 5610MHz Ant2



OBW NVNT n20 5500MHz Ant1



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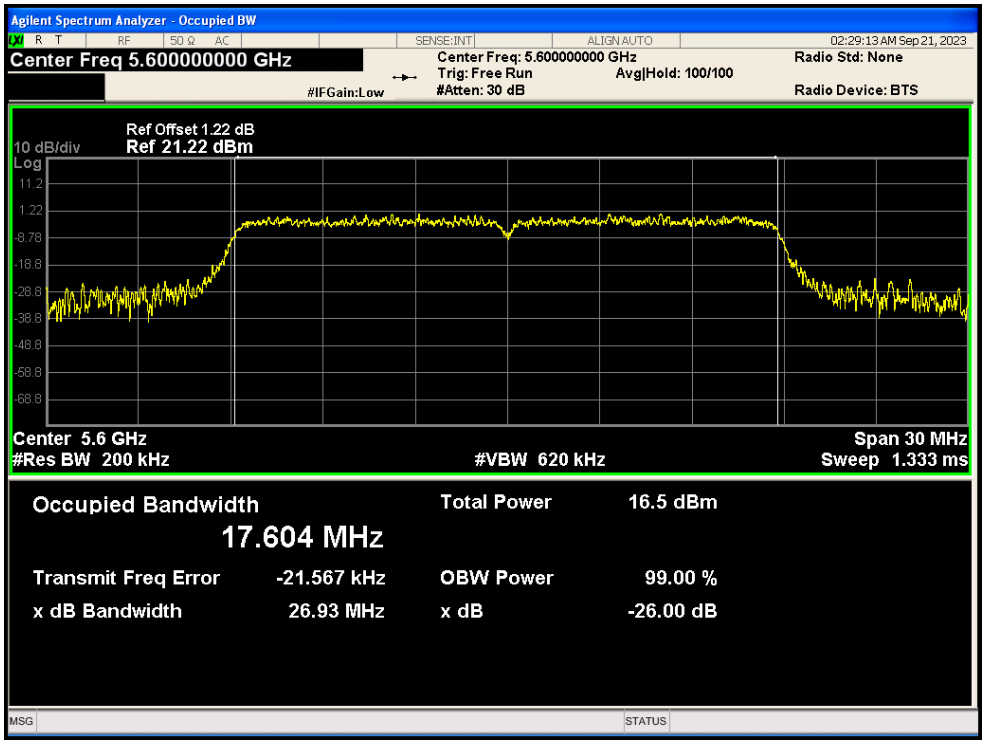
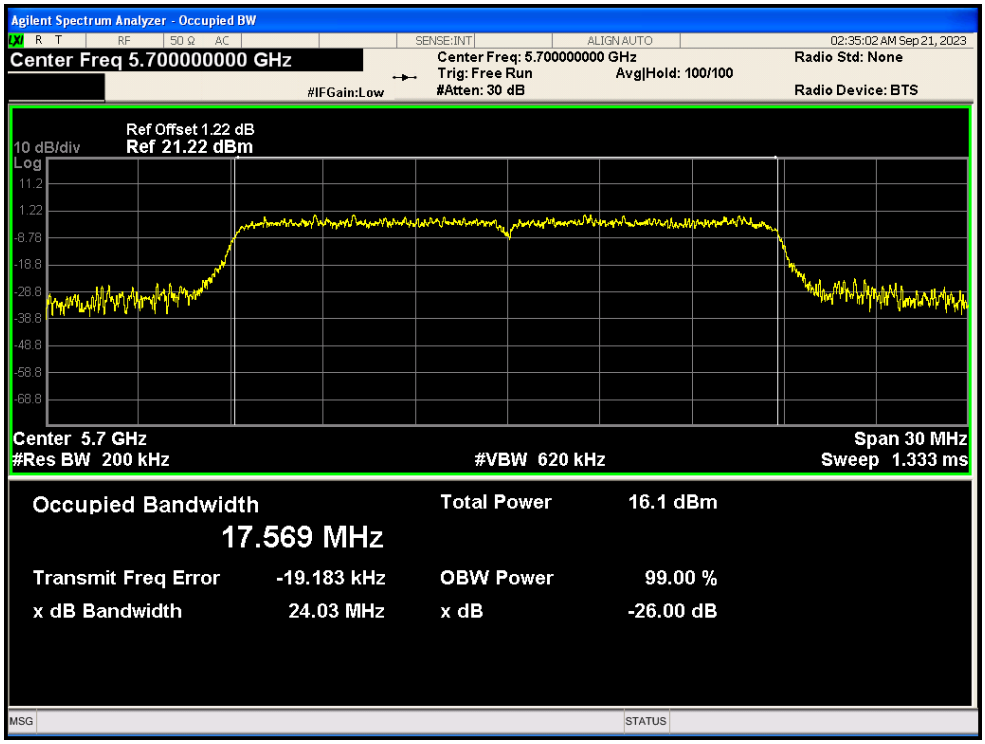
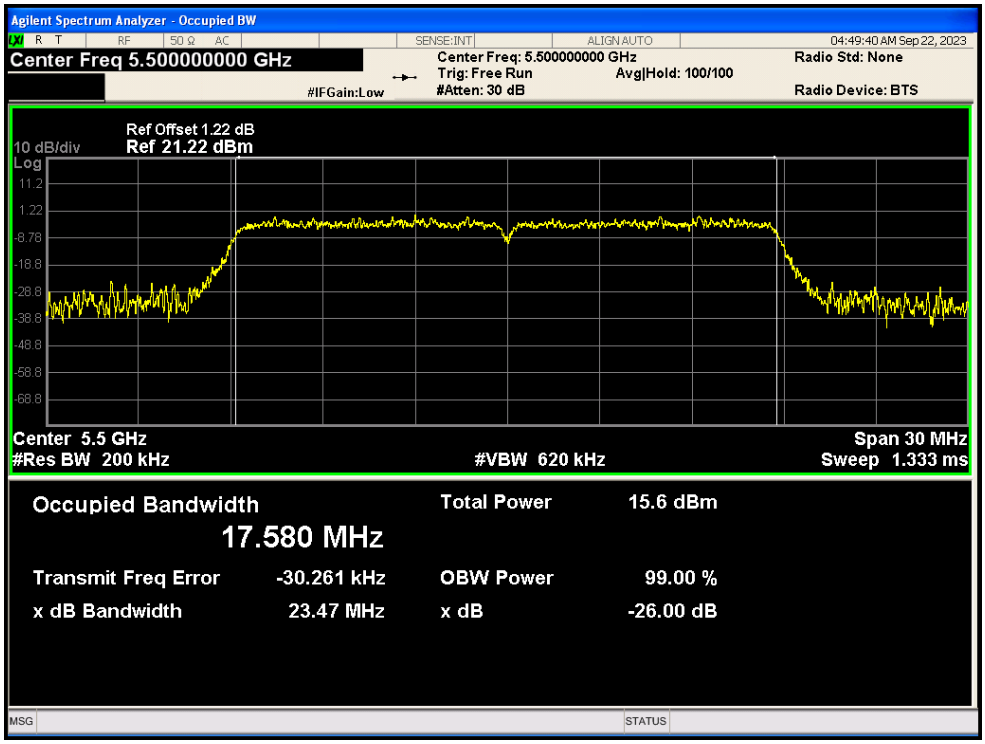


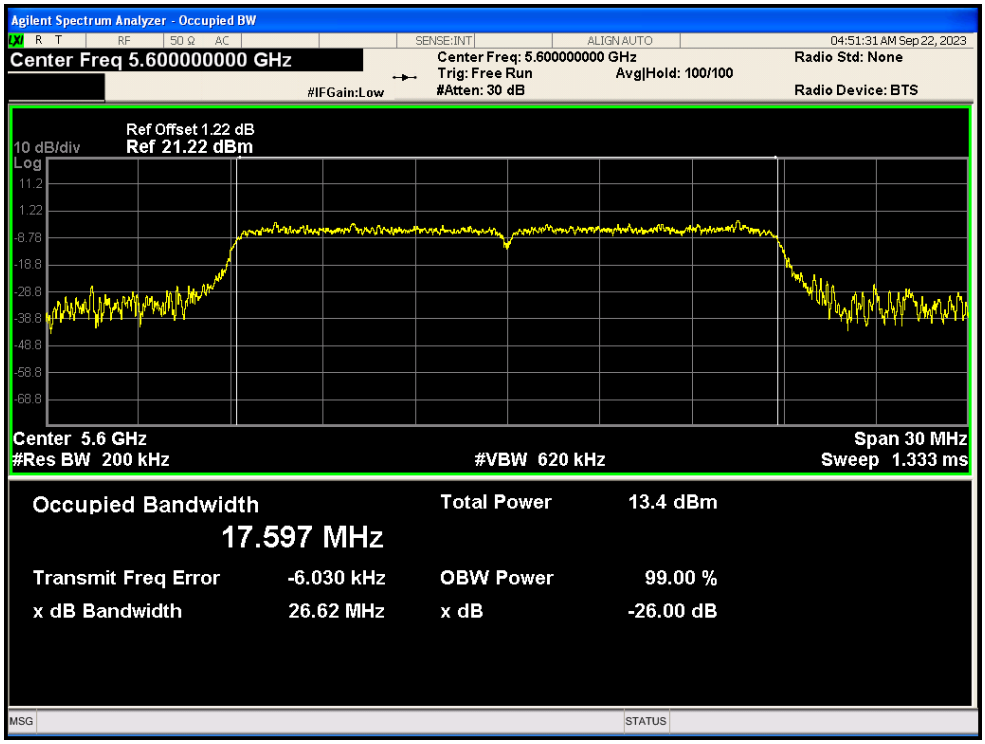
OBW NVNT n20 5700MHz Ant1



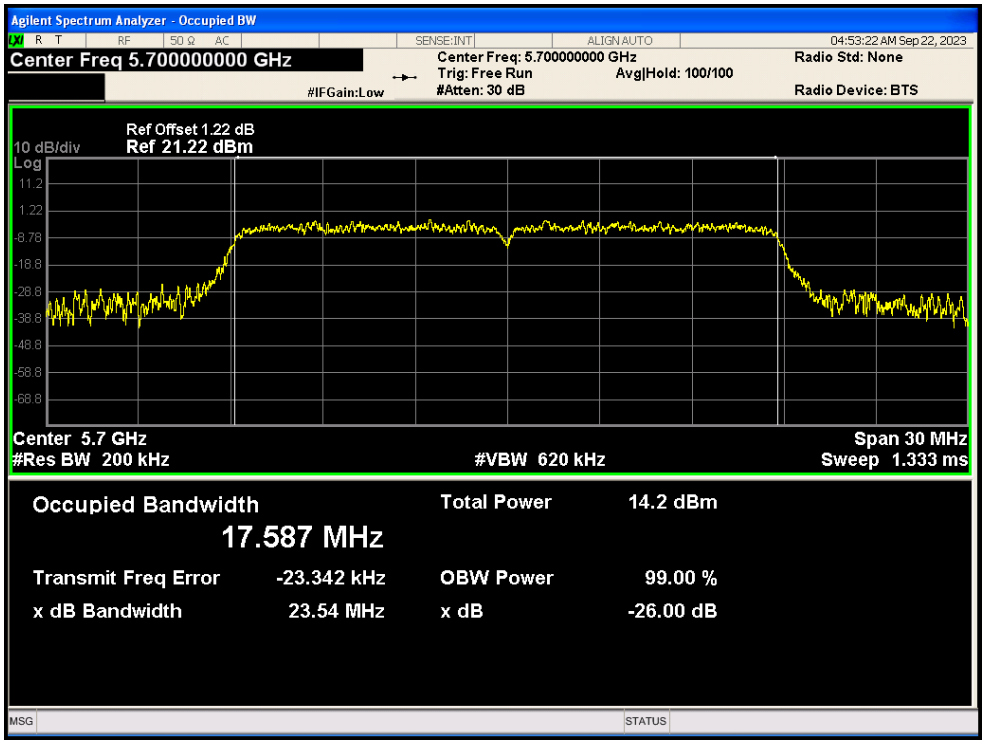
OBW NVNT n20 5500MHz Ant2



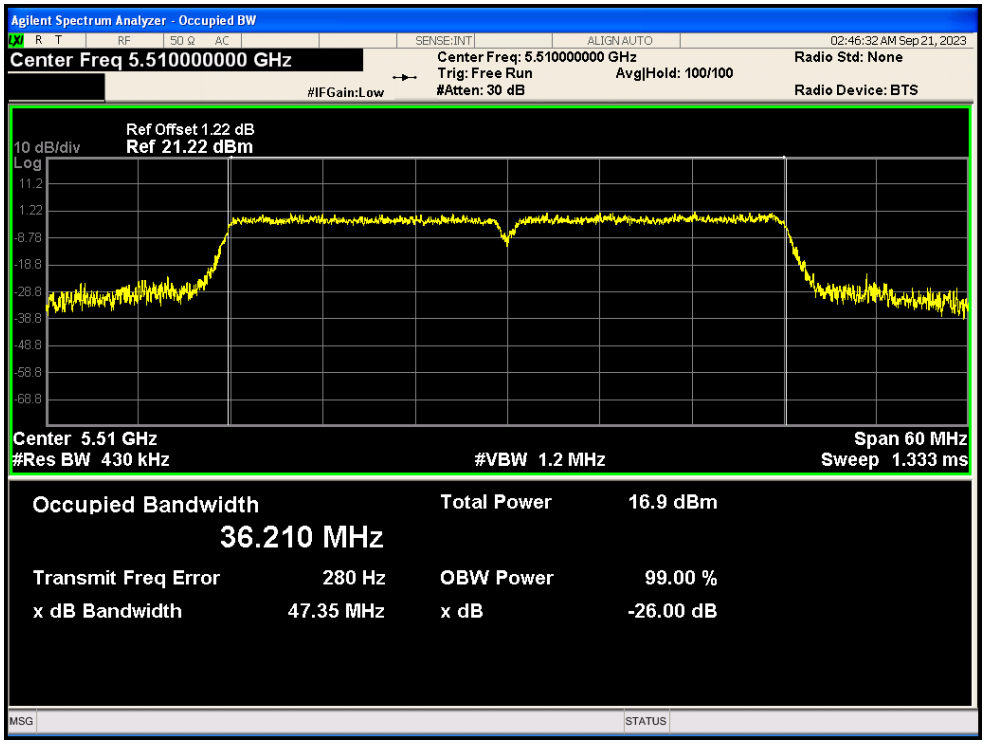
OBW NVNT n20 5600MHz Ant2



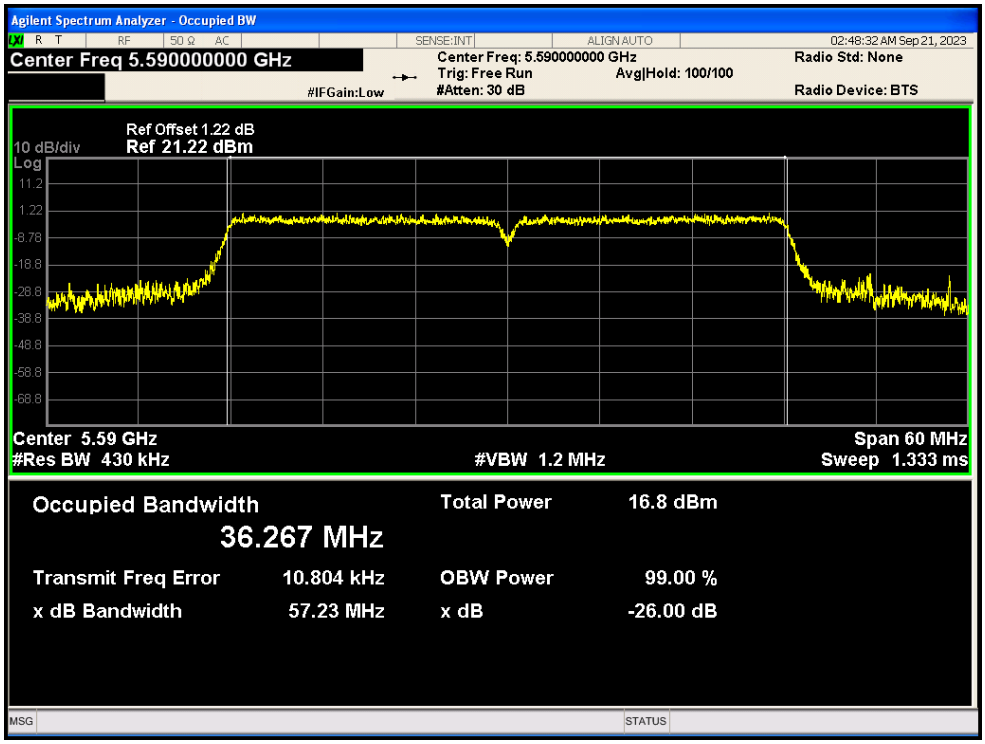
OBW NVNT n20 5700MHz Ant2



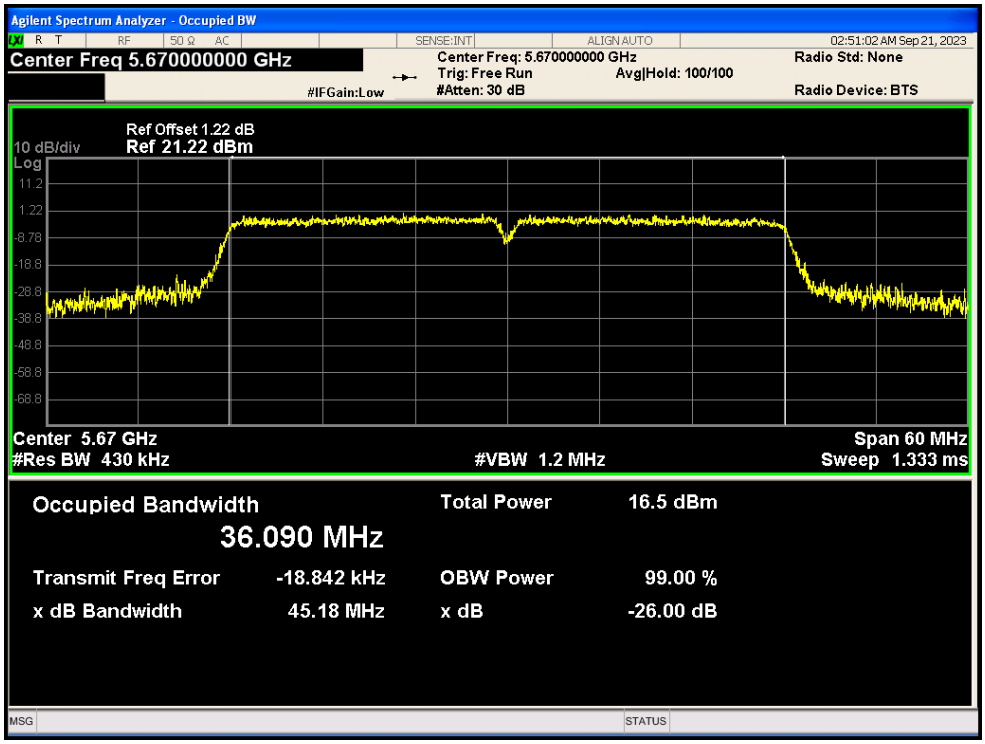
OBW NVNT n40 5510MHz Ant1



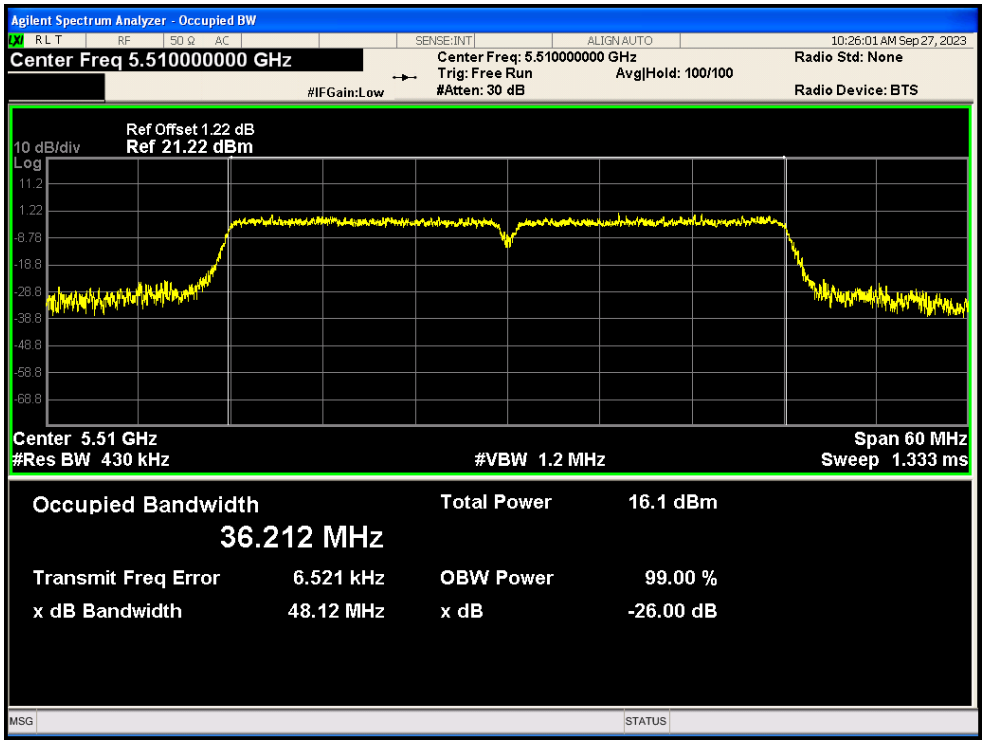
OBW NVNT n40 5590MHz Ant1



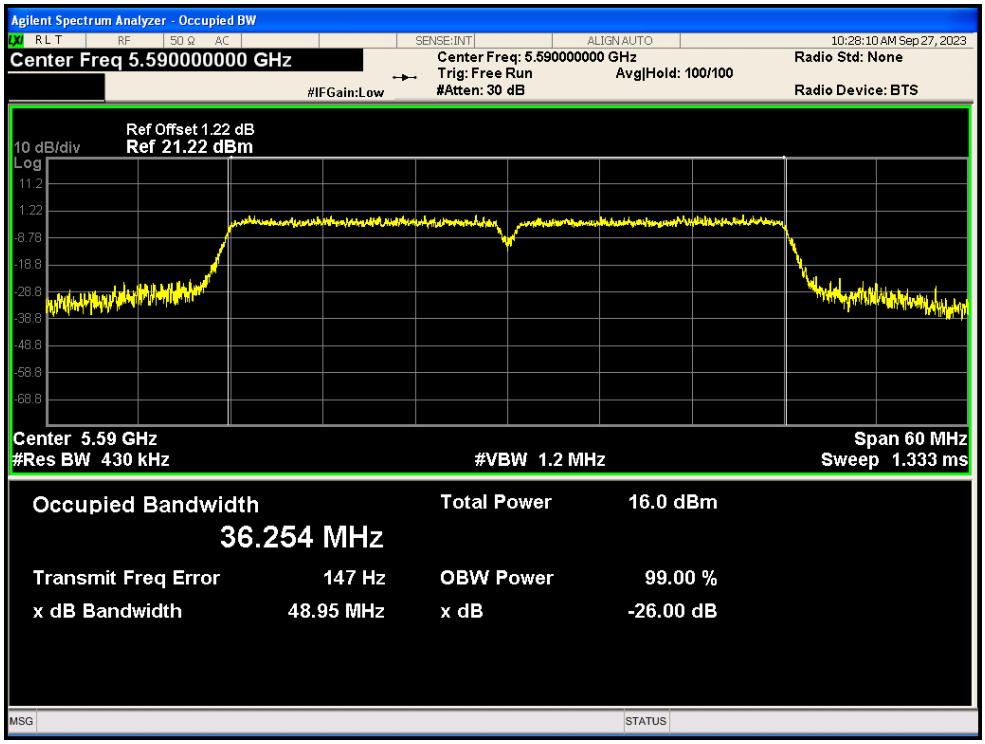
OBW NVNT n40 5670MHz Ant1



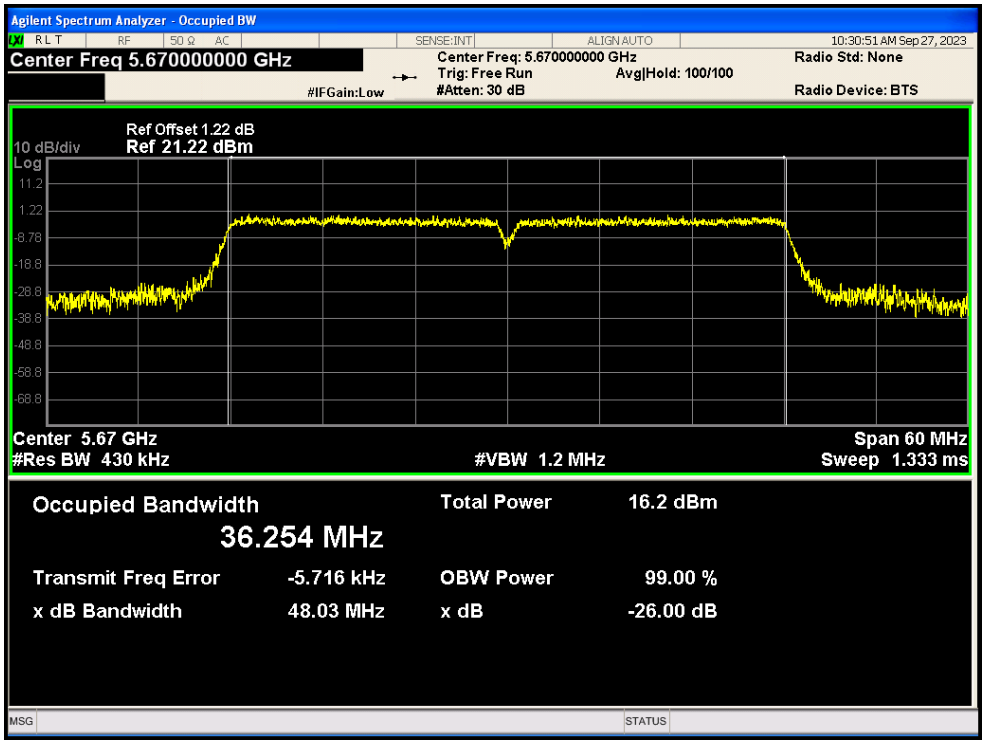
OBW NVNT n40 5510MHz Ant2



OBW NVNT n40 5590MHz Ant2



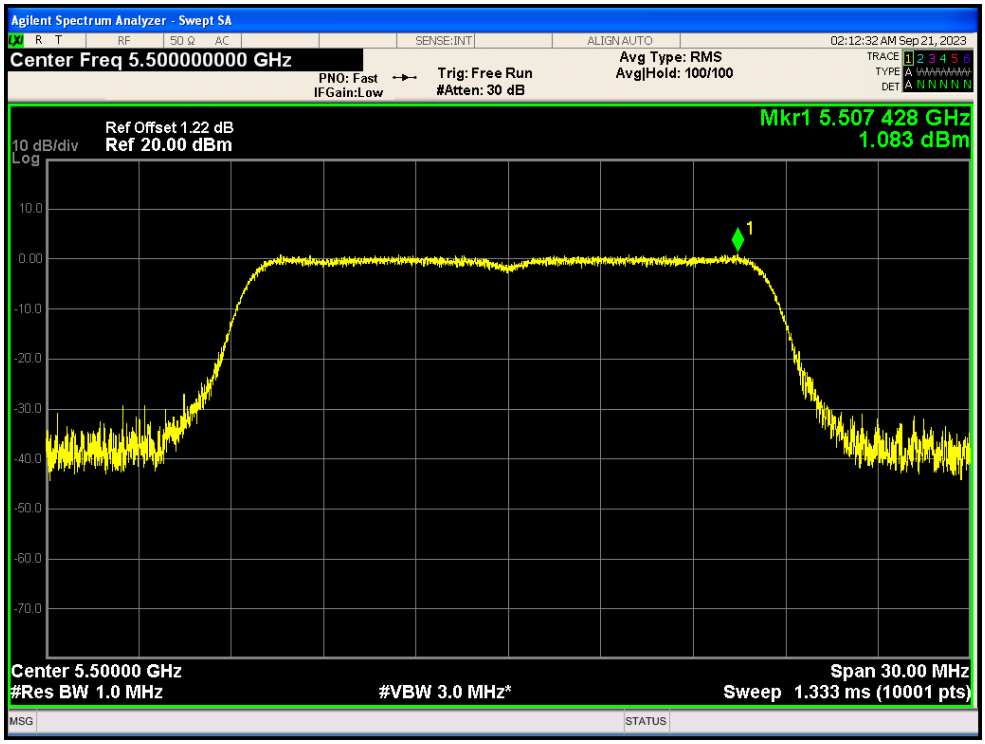
OBW NVNT n40 5670MHz Ant2



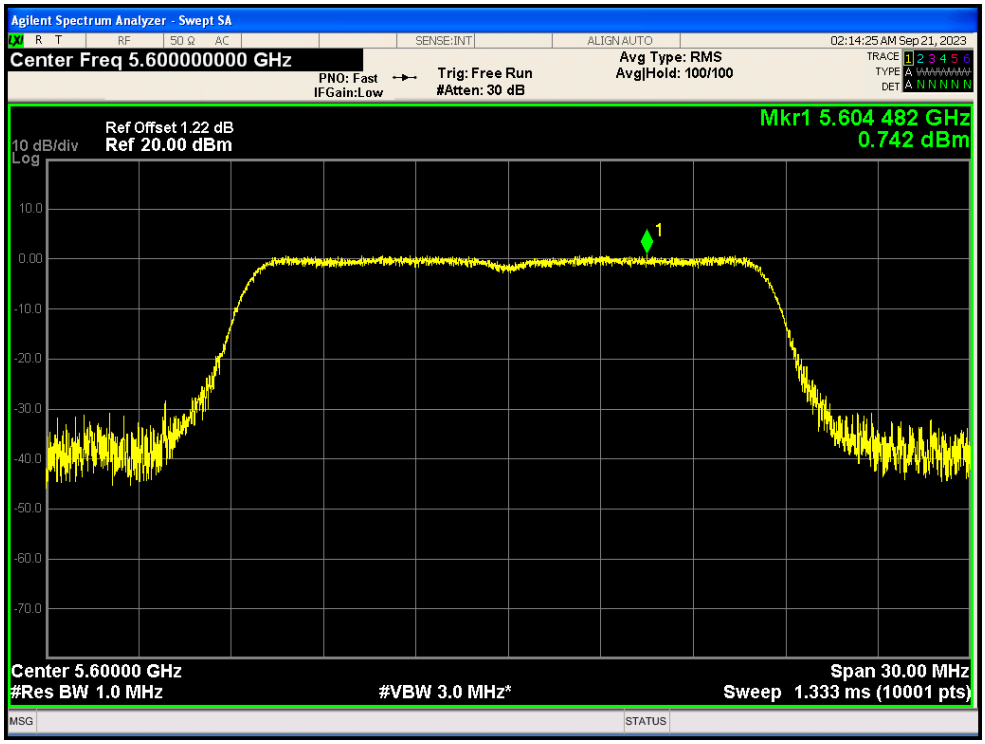
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	1.083	0.1	1.183	11	Pass
NVNT	a	5600	Ant1	0.742	0.1	0.842	11	Pass
NVNT	a	5700	Ant1	0.753	0.1	0.853	11	Pass
NVNT	a	5500	Ant2	-0.439	0.1	-0.339	11	Pass
NVNT	a	5600	Ant2	-2.749	0.1	-2.649	11	Pass
NVNT	a	5700	Ant2	-2.191	0.1	-2.091	11	Pass
NVNT	ac20	5500	Ant1	0.218	0.1	0.318	11	Pass
NVNT	ac20	5600	Ant1	-0.033	0.1	0.067	11	Pass
NVNT	ac20	5700	Ant1	-0.38	0.1	-0.28	11	Pass
NVNT	ac20	5500	Ant2	0.08	0.1	0.18	11	Pass
NVNT	ac20	5600	Ant2	-0.288	0.1	-0.188	11	Pass
NVNT	ac20	5700	Ant2	-0.536	0.1	-0.436	11	Pass
NVNT	ac40	5510	Ant1	-2.663	0.21	-2.453	11	Pass
NVNT	ac40	5590	Ant1	-2.878	0.21	-2.668	11	Pass
NVNT	ac40	5670	Ant1	-3.086	0.21	-2.876	11	Pass
NVNT	ac40	5510	Ant2	-3.596	0.21	-3.386	11	Pass
NVNT	ac40	5590	Ant2	-3.827	0.21	-3.617	11	Pass
NVNT	ac40	5670	Ant2	-3.551	0.21	-3.341	11	Pass
NVNT	ac80	5530	Ant1	-5.622	0.38	-5.242	11	Pass
NVNT	ac80	5610	Ant1	-7.346	0.38	-6.966	11	Pass
NVNT	ac80	5530	Ant2	-6.421	0.38	-6.041	11	Pass
NVNT	ac80	5610	Ant2	-8.04	0.38	-7.66	11	Pass
NVNT	n20	5500	Ant1	0.286	0.1	0.386	11	Pass
NVNT	n20	5600	Ant1	-0.12	0.1	-0.02	11	Pass
NVNT	n20	5700	Ant1	-0.616	0.1	-0.516	10	Pass
NVNT	n20	5500	Ant2	-0.807	0.1	-0.707	11	Pass
NVNT	n20	5600	Ant2	-3.003	0.1	-2.903	11	Pass
NVNT	n20	5700	Ant2	-2.398	0.1	-2.298	10	Pass
NVNT	n40	5510	Ant1	-2.371	0.2	-2.171	11	Pass
NVNT	n40	5590	Ant1	-2.762	0.2	-2.562	11	Pass
NVNT	n40	5670	Ant1	-3.106	0.2	-2.906	11	Pass
NVNT	n40	5510	Ant2	-3.539	0.2	-3.339	11	Pass
NVNT	n40	5590	Ant2	-3.566	0.2	-3.366	11	Pass
NVNT	n40	5670	Ant2	-3.309	0.21	-3.099	11	Pass

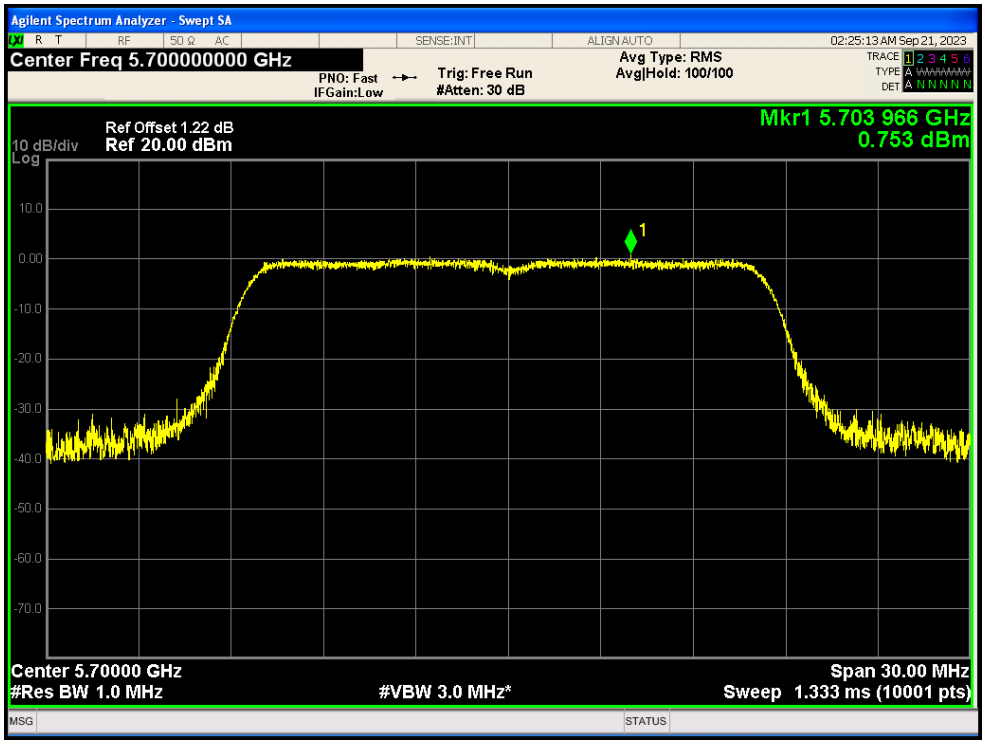
PSD NVNT a 5500MHz Ant1



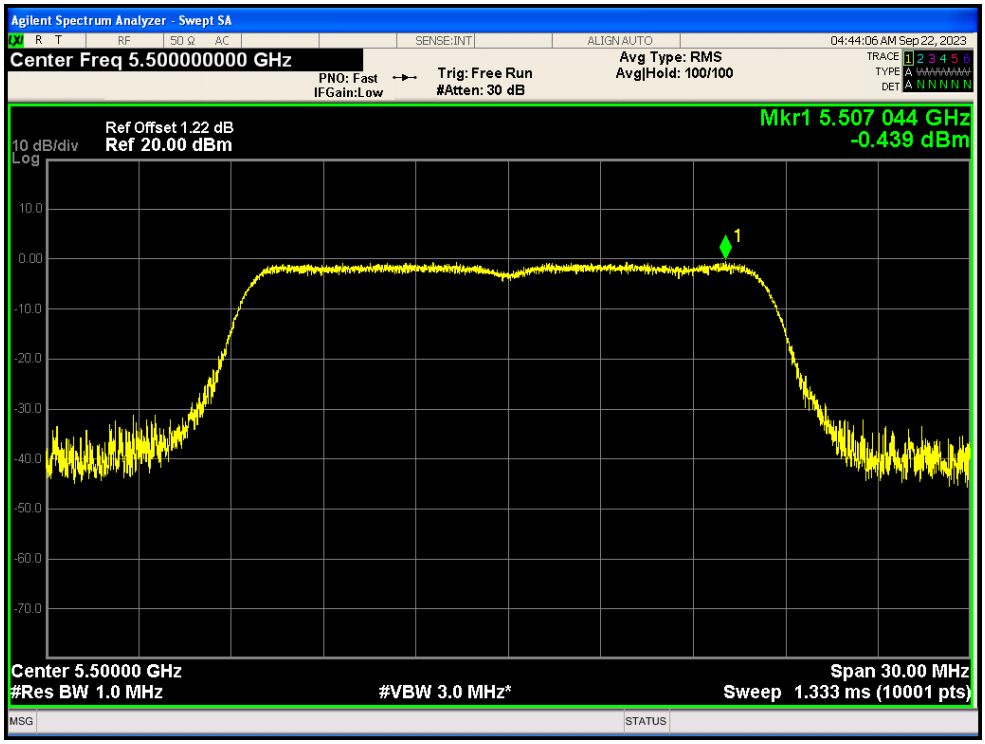
PSD NVNT a 5600MHz Ant1



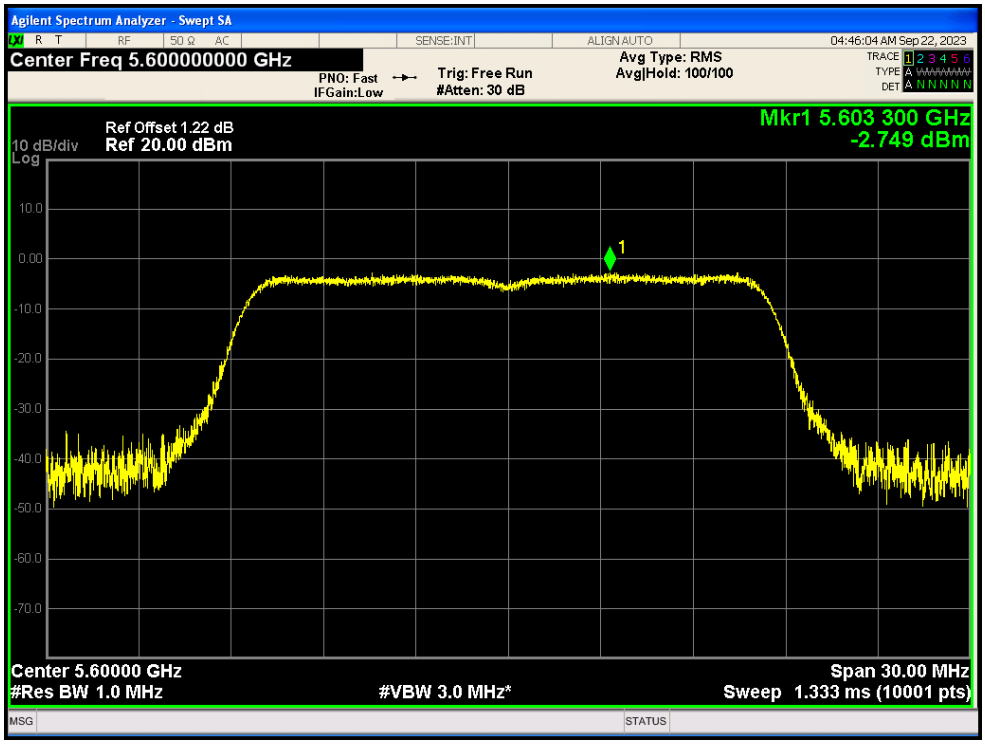
PSD NVNT a 5700MHz Ant1



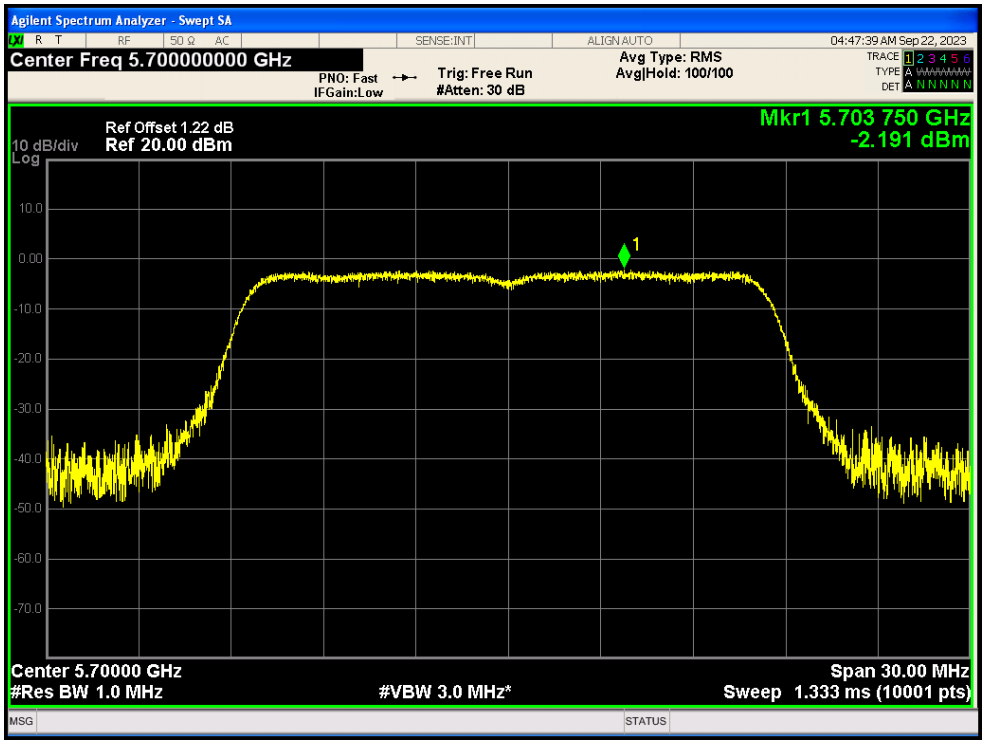
PSD NVNT a 5500MHz Ant2



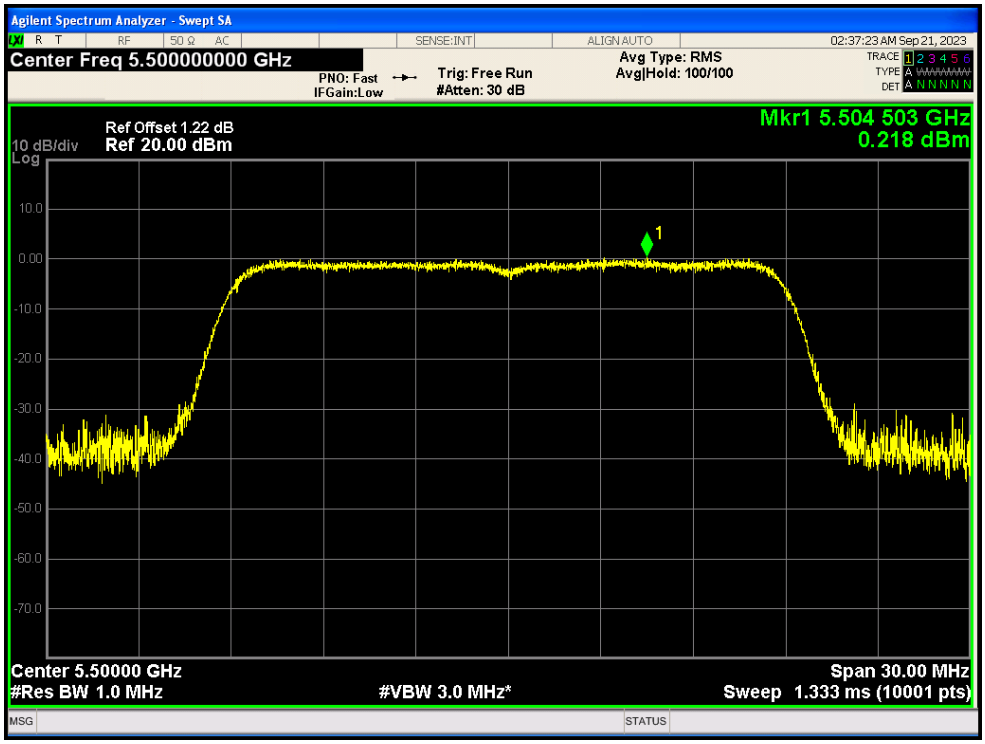
PSD NVNT a 5600MHz Ant2



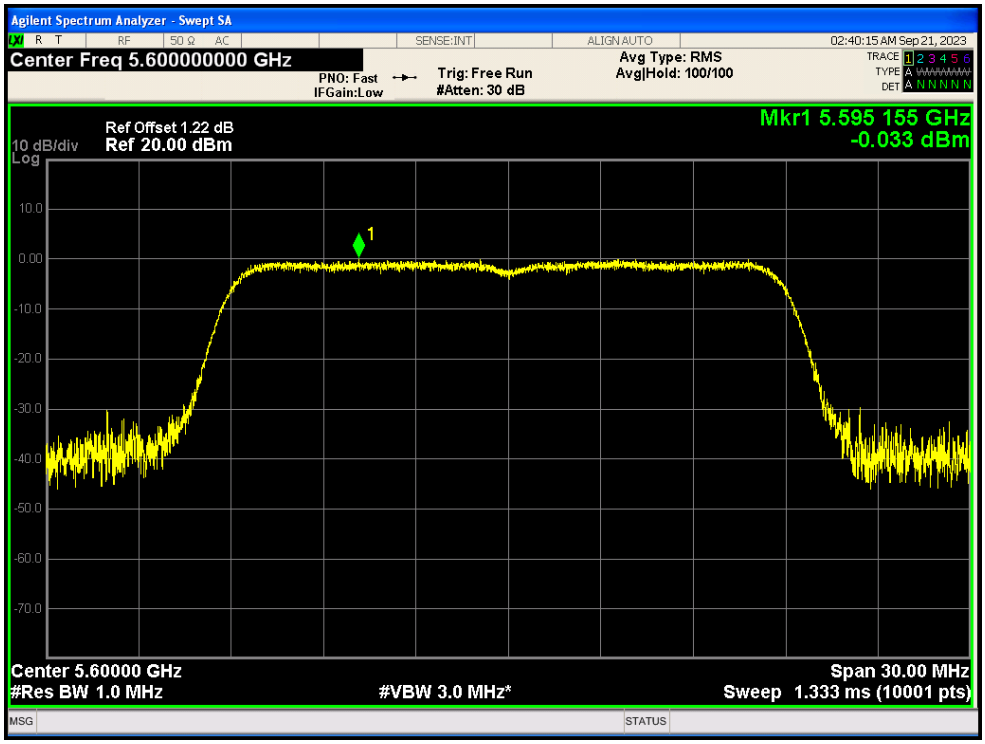
PSD NVNT a 5700MHz Ant2



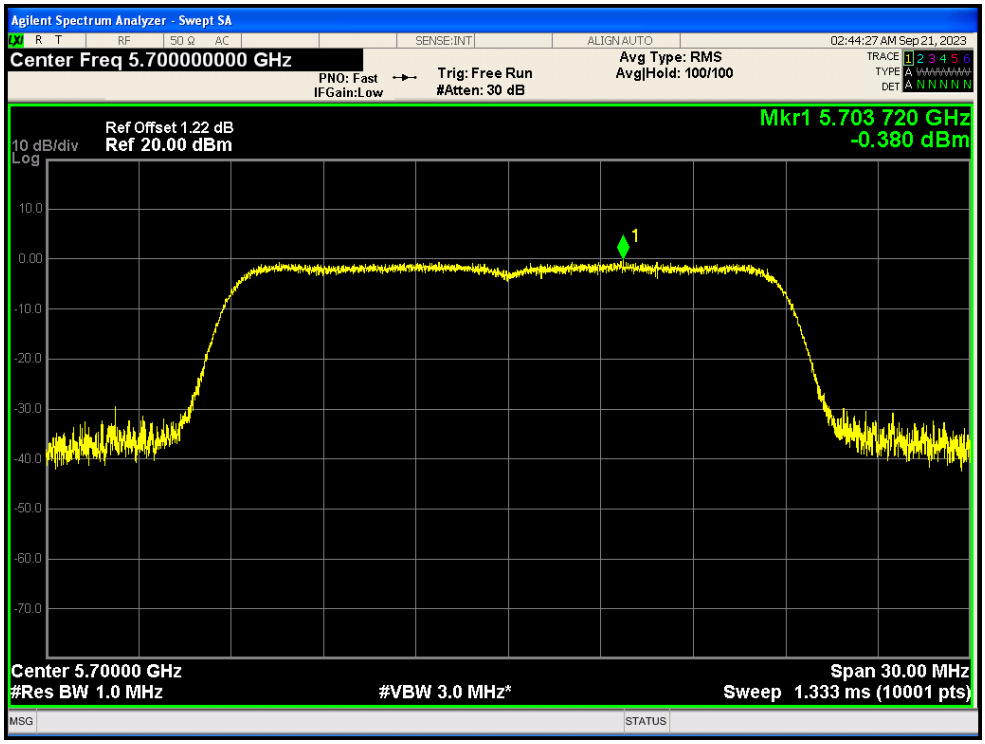
PSD NVNT ac20 5500MHz Ant1



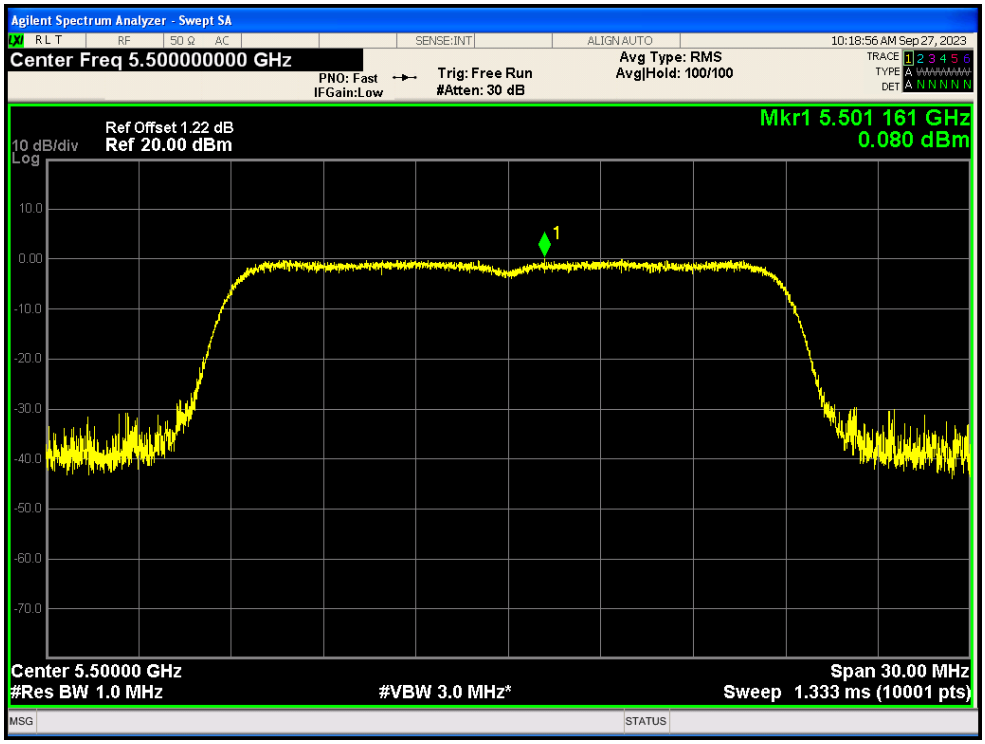
PSD NVNT ac20 5600MHz Ant1



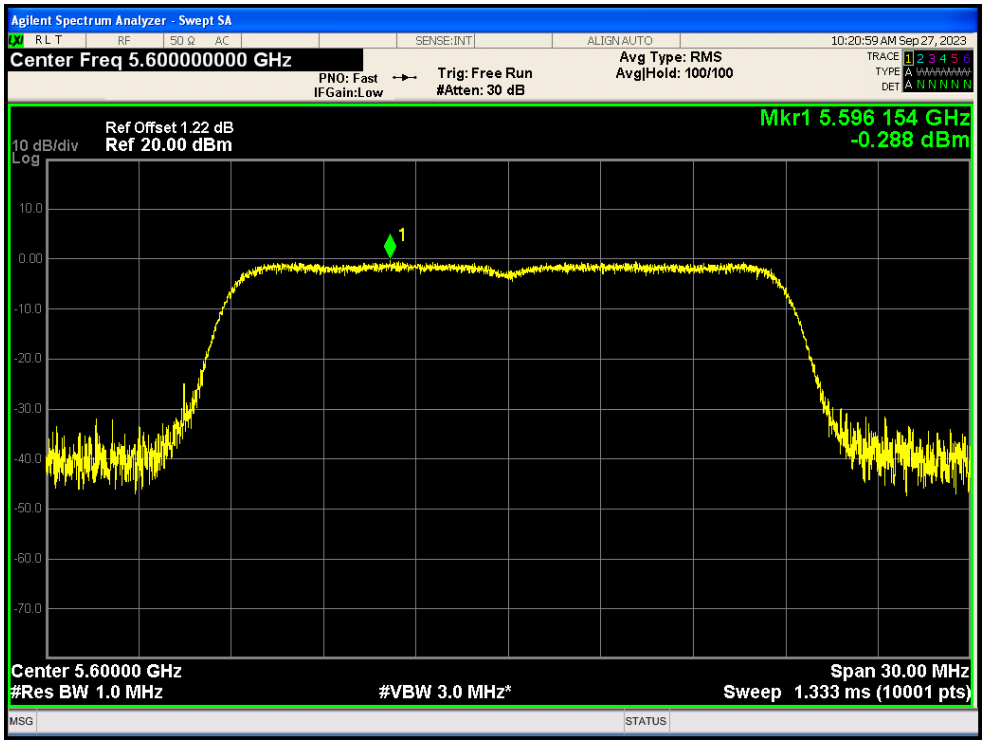
PSD NVNT ac20 5700MHz Ant1



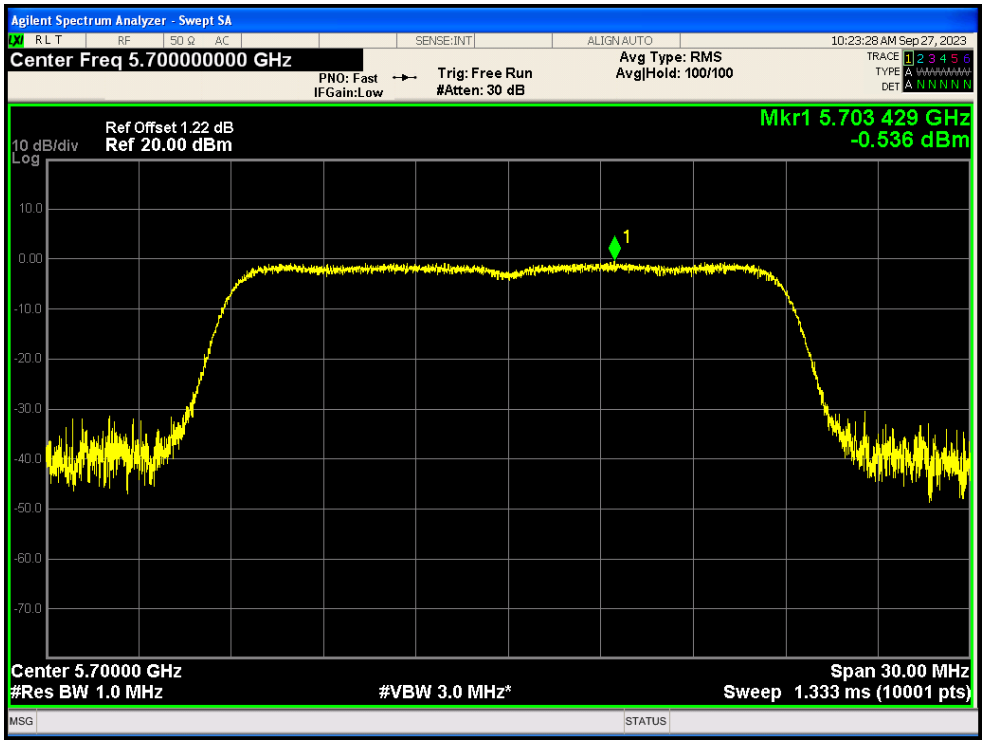
PSD NVNT ac20 5500MHz Ant2



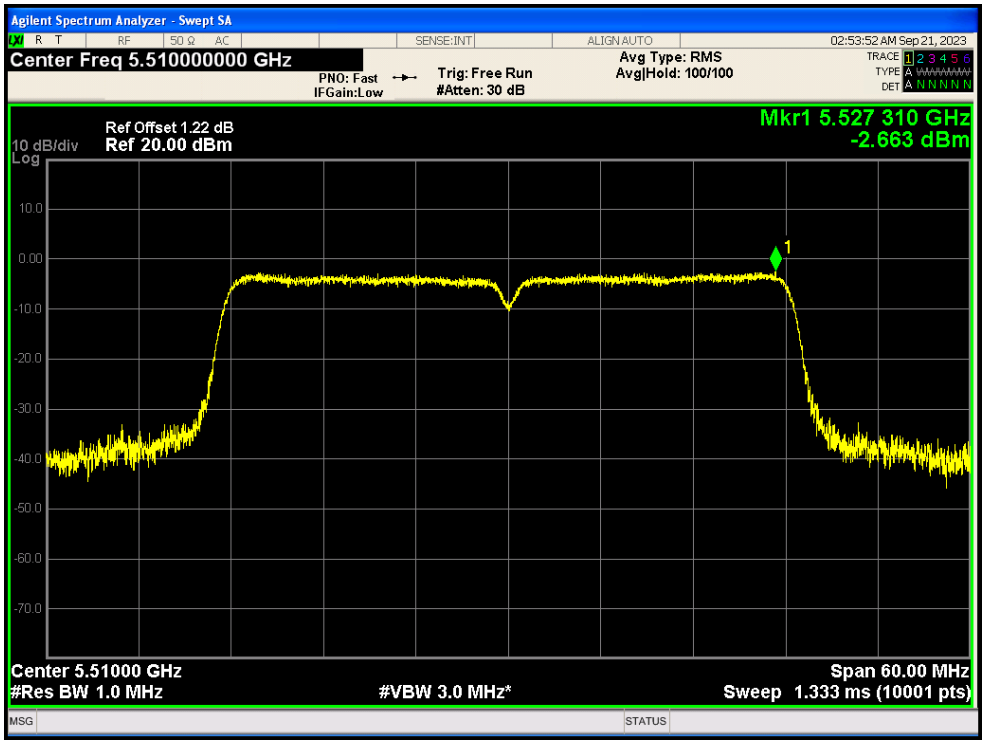
PSD NVNT ac20 5600MHz Ant2



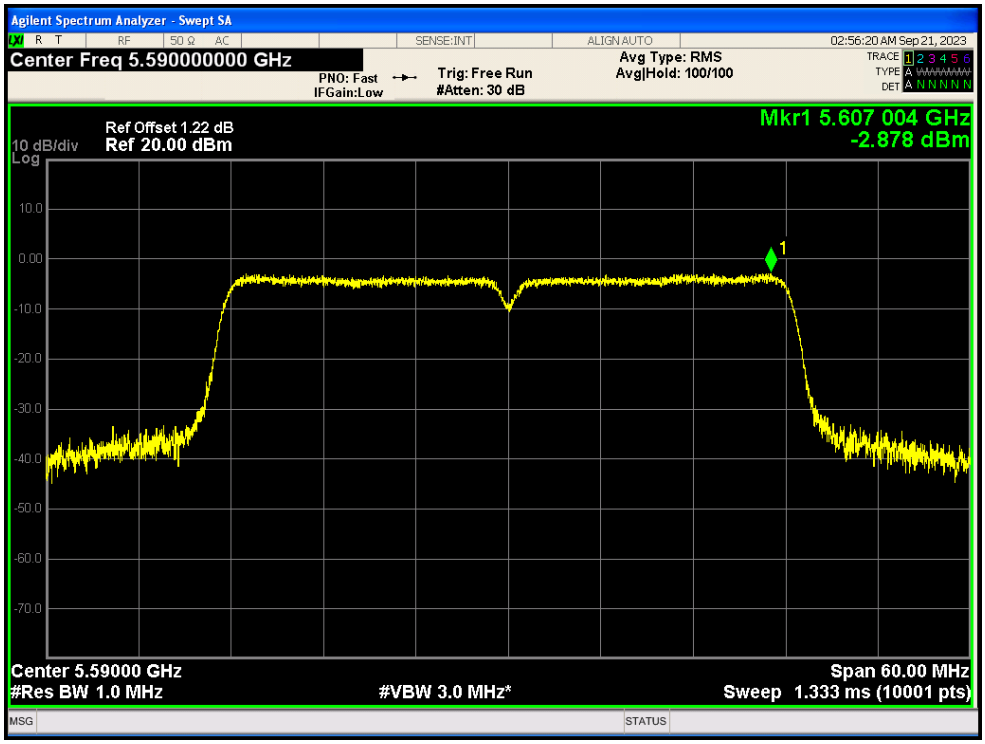
PSD NVNT ac20 5700MHz Ant2



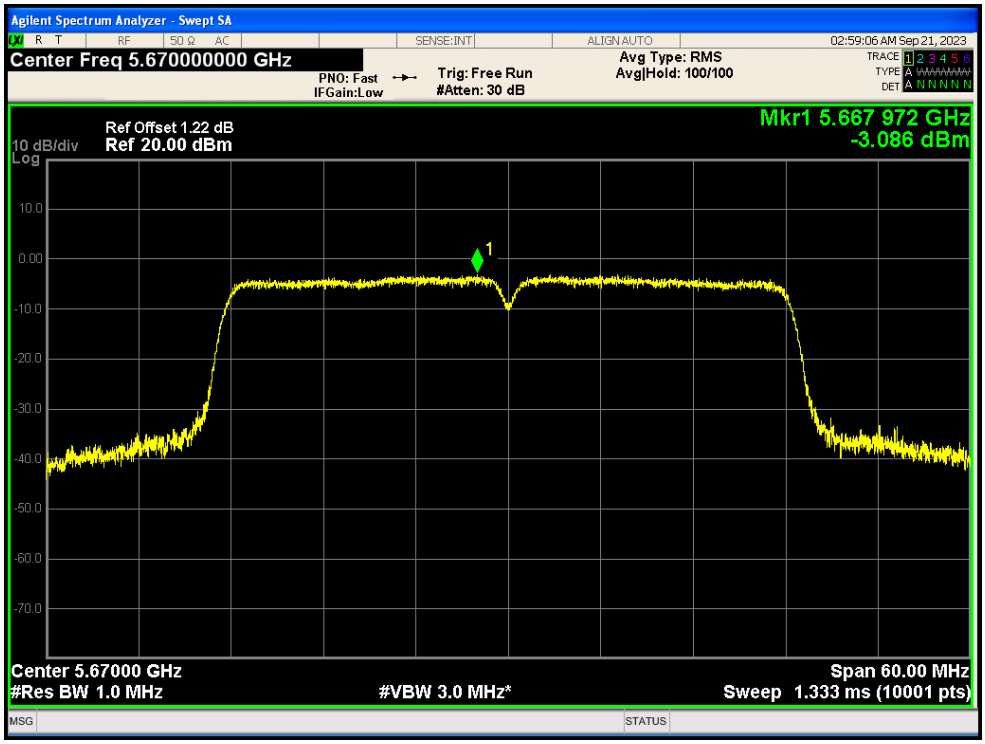
PSD NVNT ac40 5510MHz Ant1



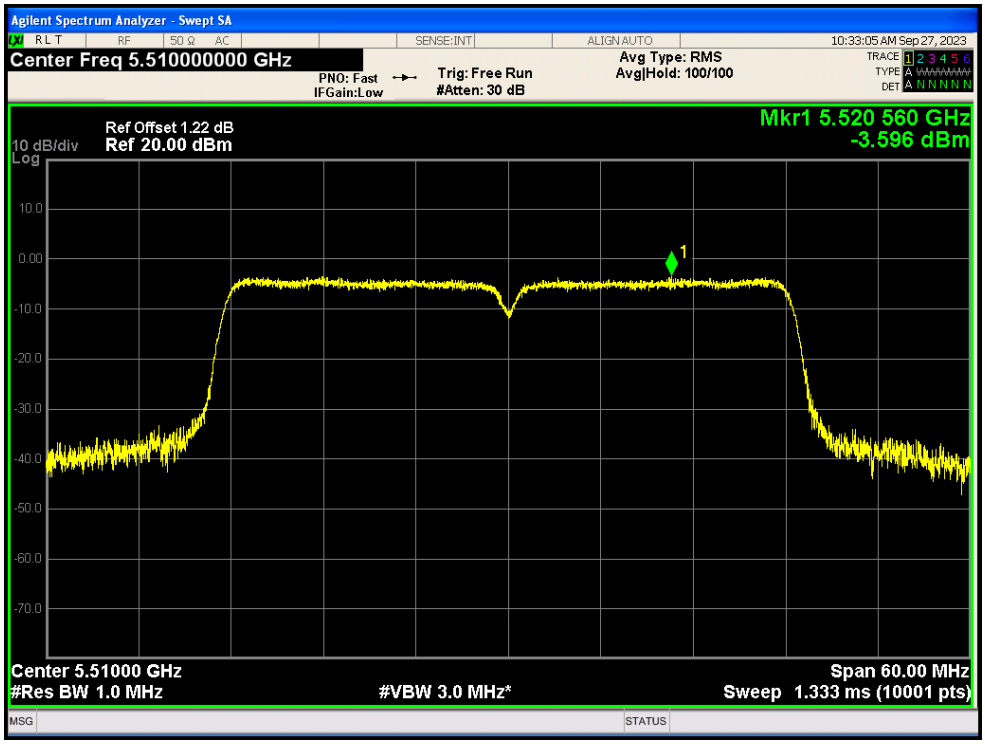
PSD NVNT ac40 5590MHz Ant1



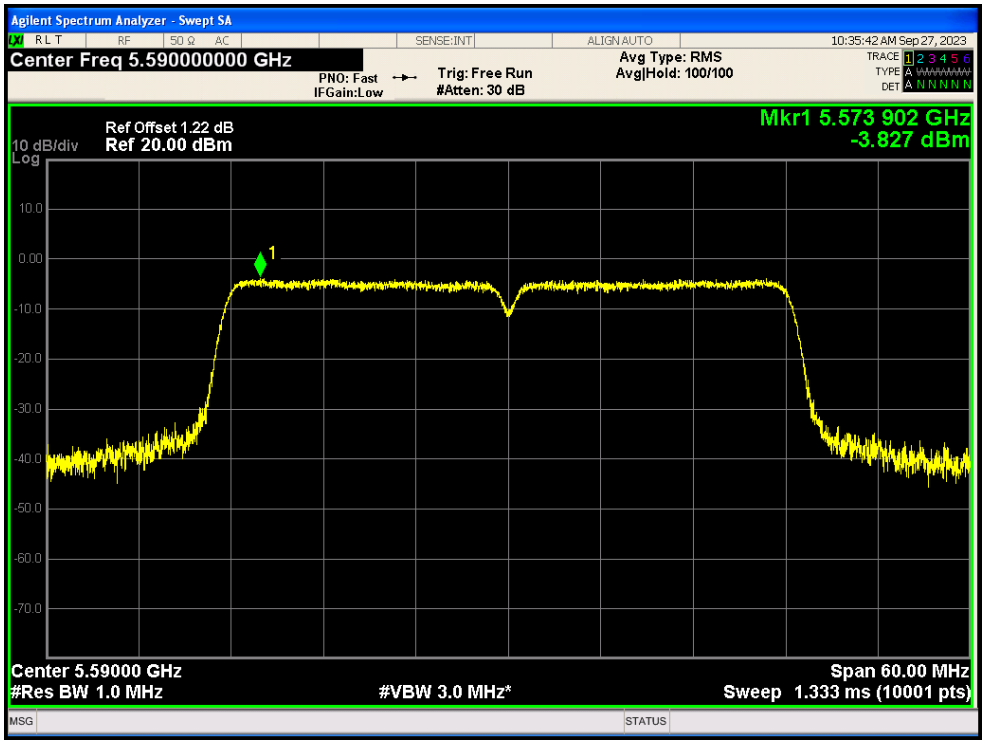
PSD NVNT ac40 5670MHz Ant1



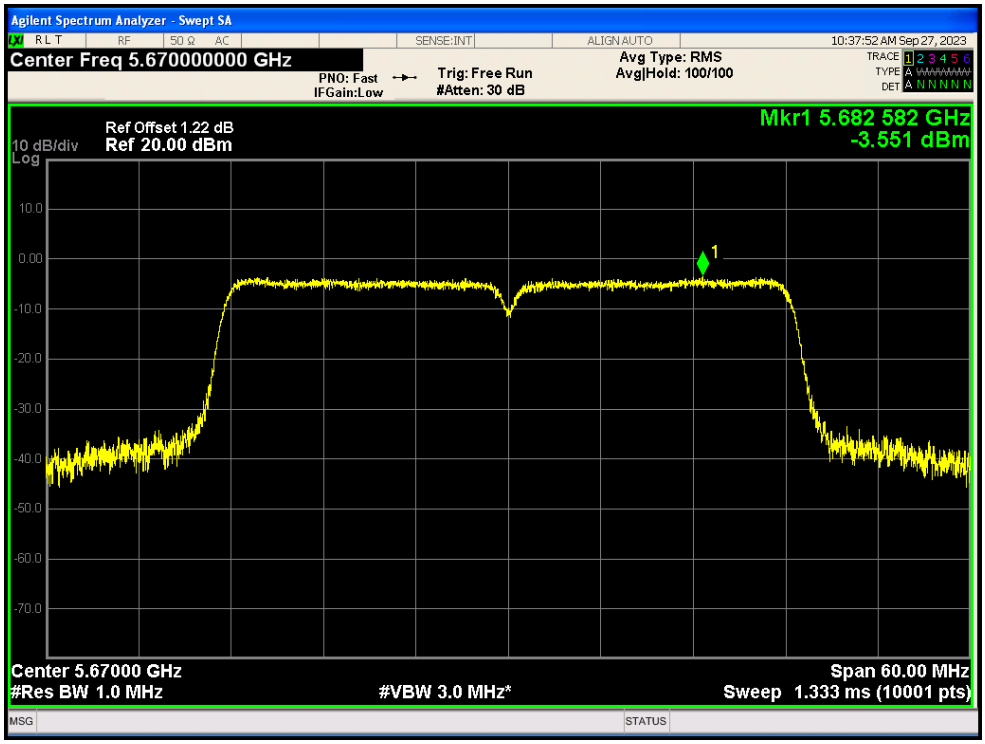
PSD NVNT ac40 5510MHz Ant2



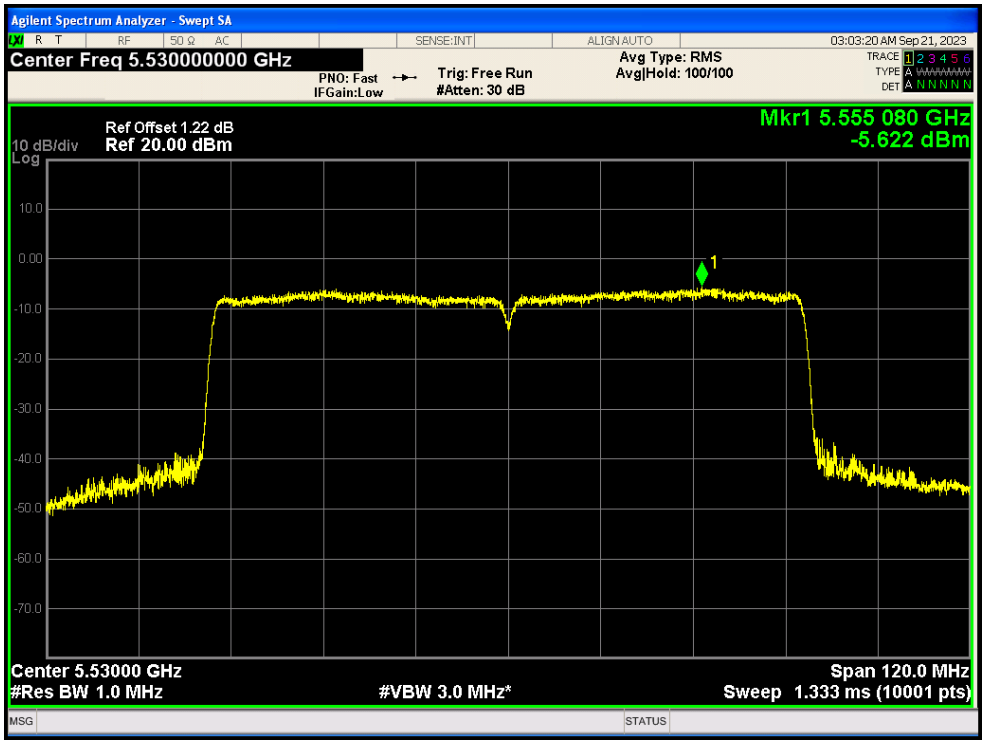
PSD NVNT ac40 5590MHz Ant2



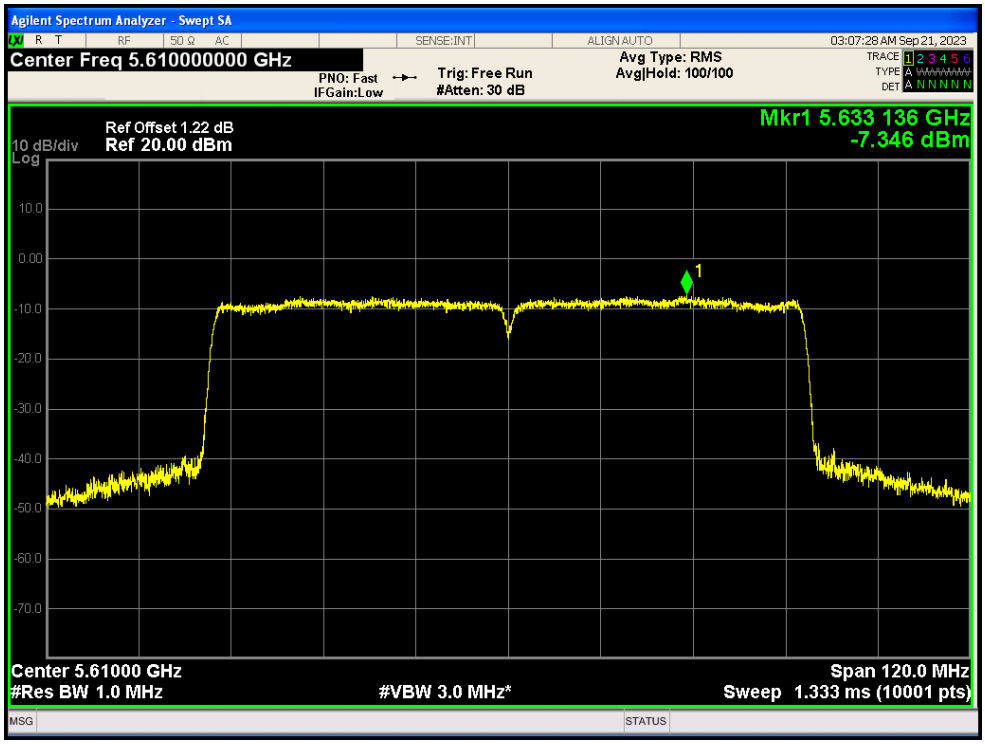
PSD NVNT ac40 5670MHz Ant2



PSD NVNT ac80 5530MHz Ant1

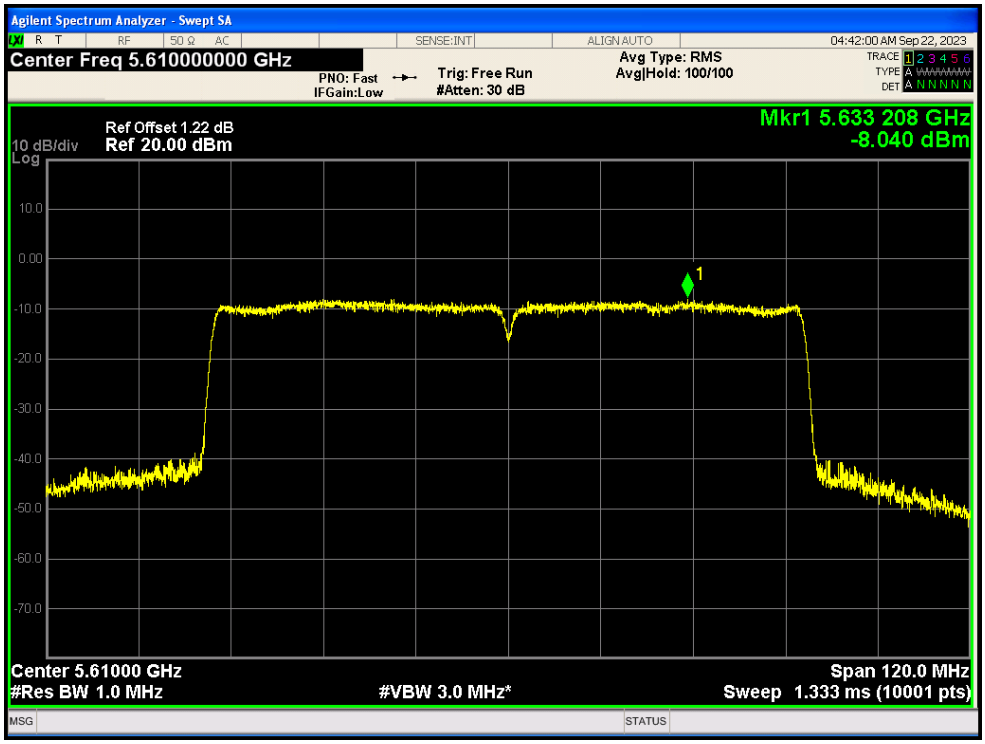


PSD NVNT ac80 5610MHz Ant1

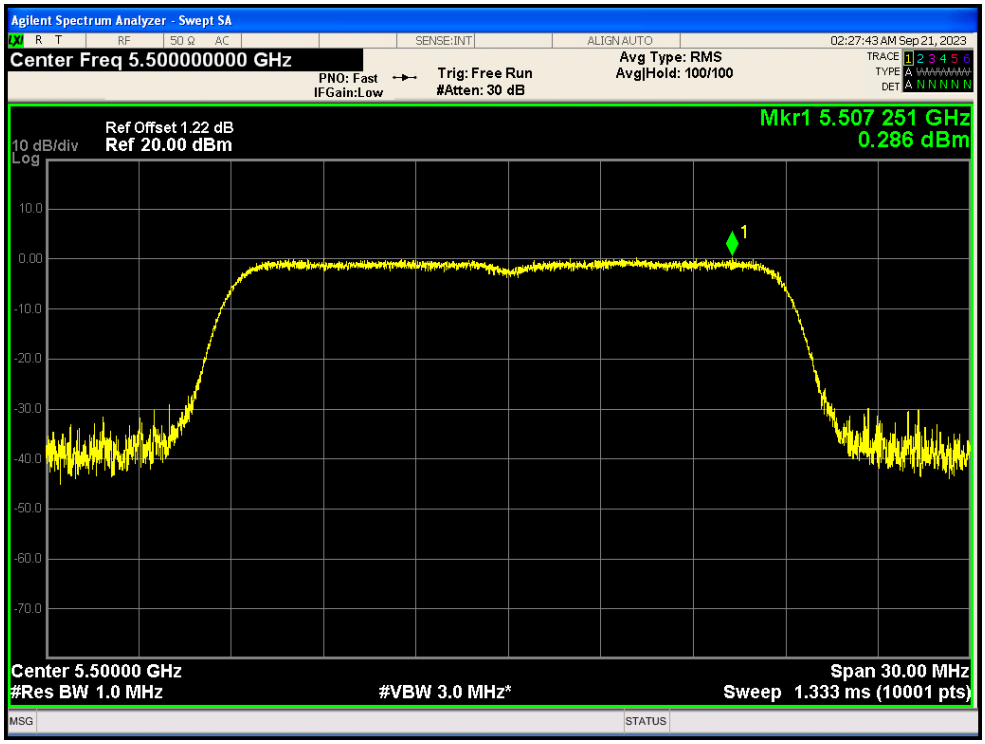


PSD NVNT ac80 5530MHz Ant2

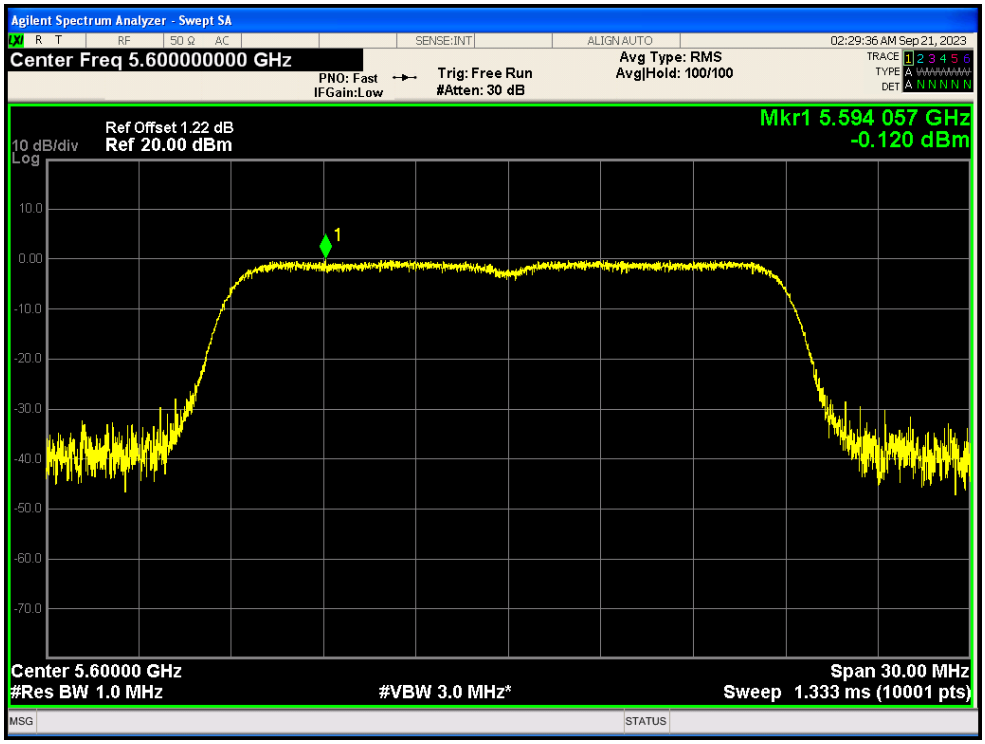
PSD NVNT ac80 5610MHz Ant2



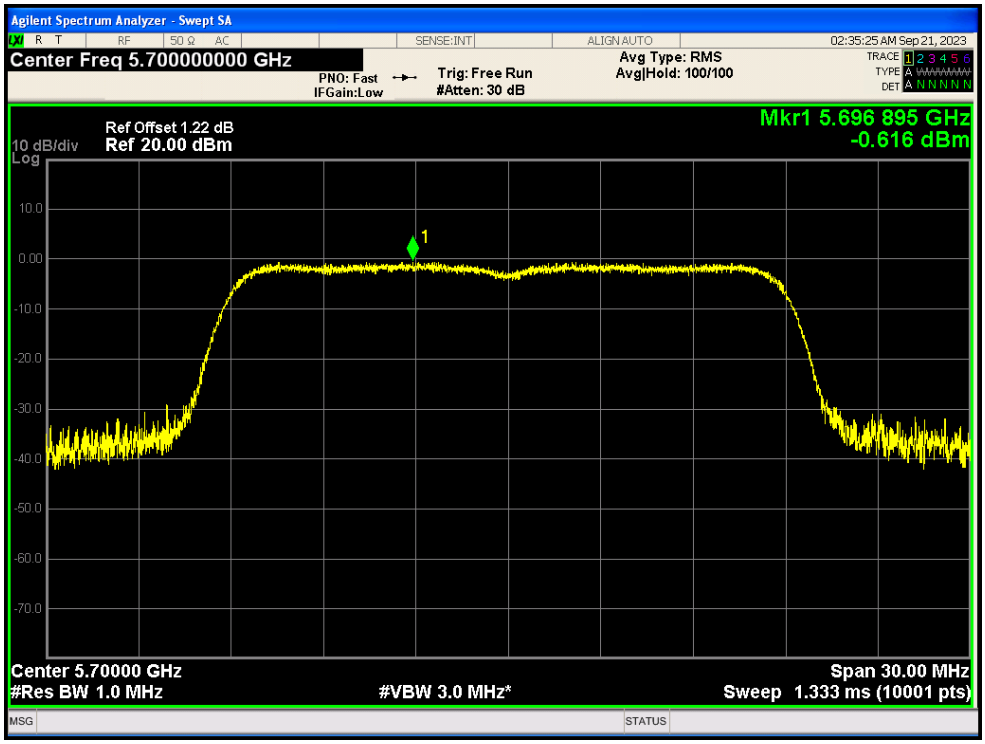
PSD NVNT n20 5500MHz Ant1



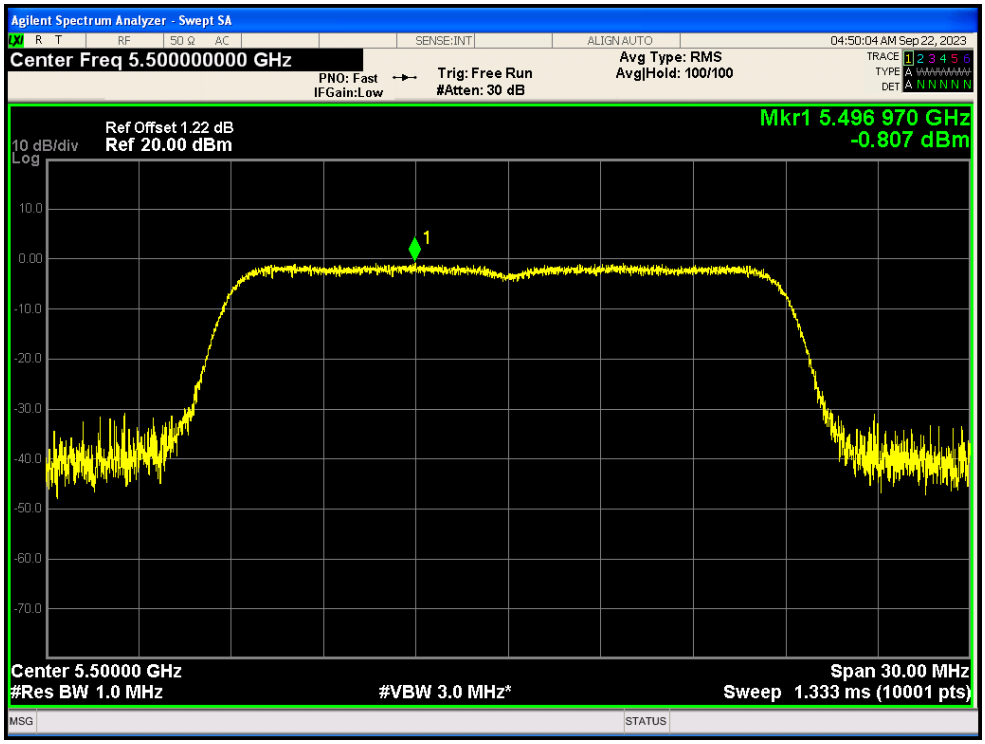
PSD NVNT n20 5600MHz Ant1



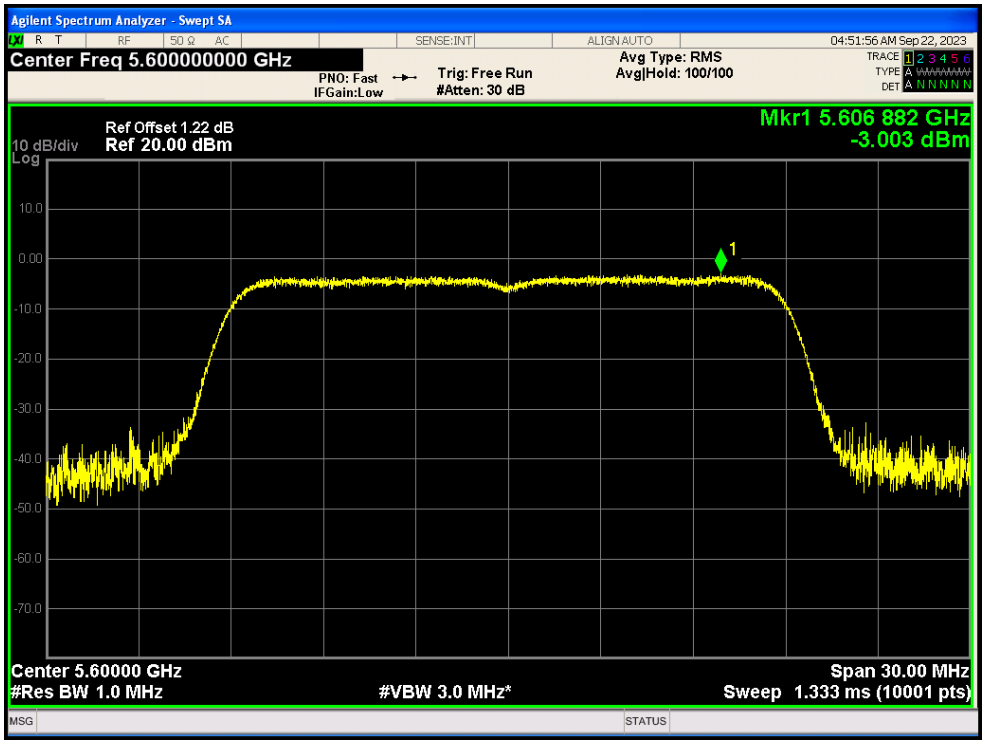
PSD NVNT n20 5700MHz Ant1



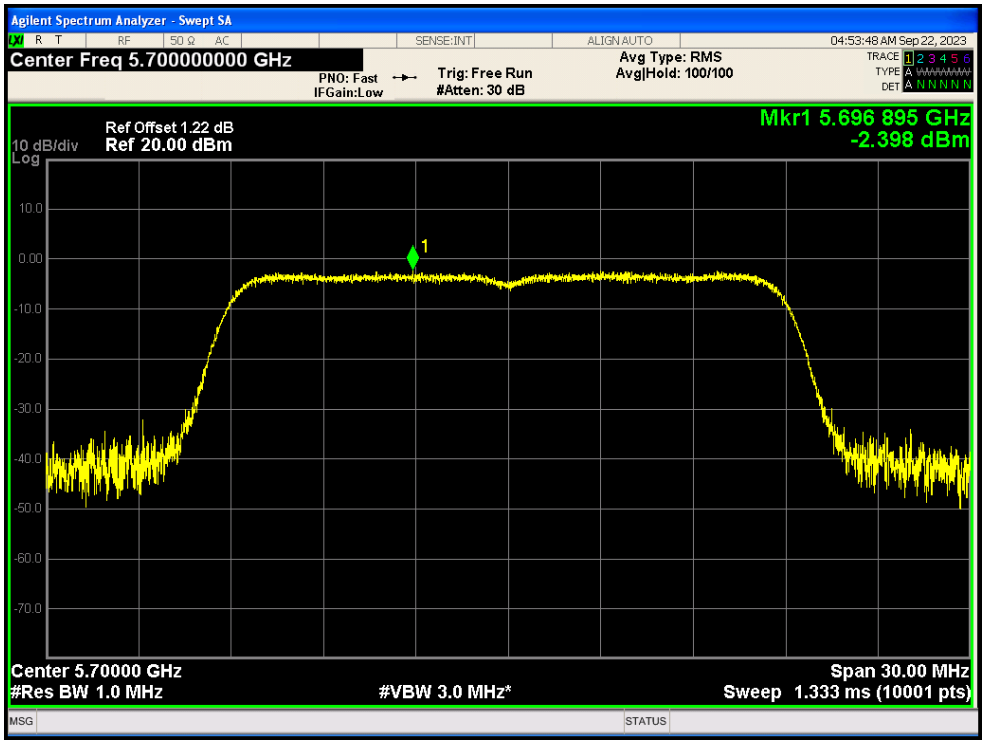
PSD NVNT n20 5500MHz Ant2



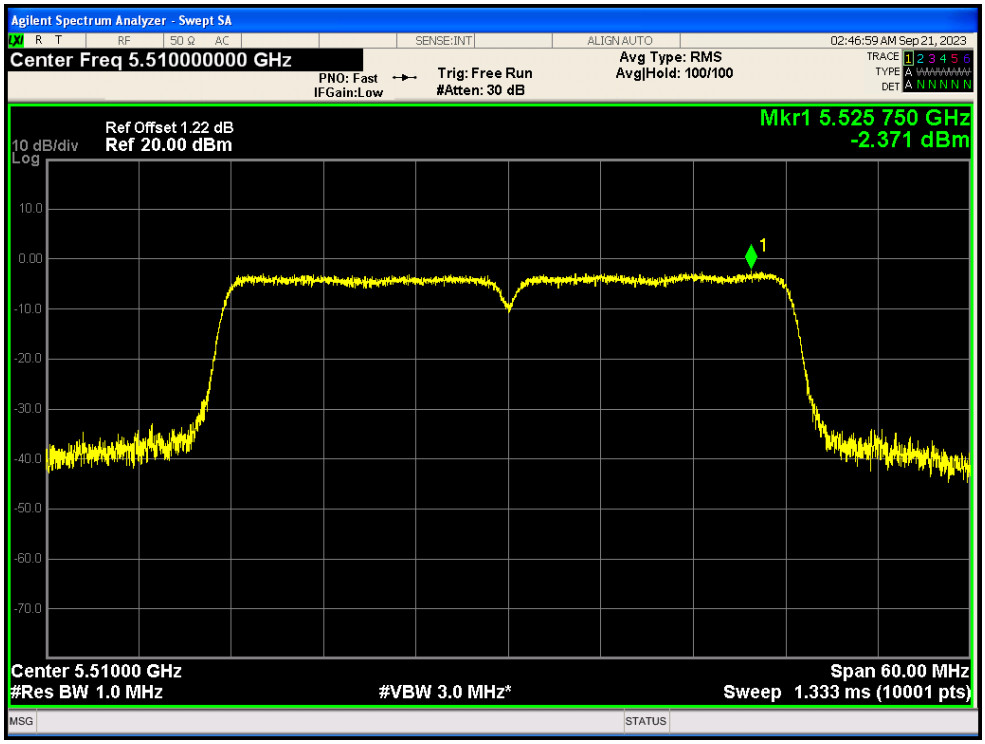
PSD NVNT n20 5600MHz Ant2



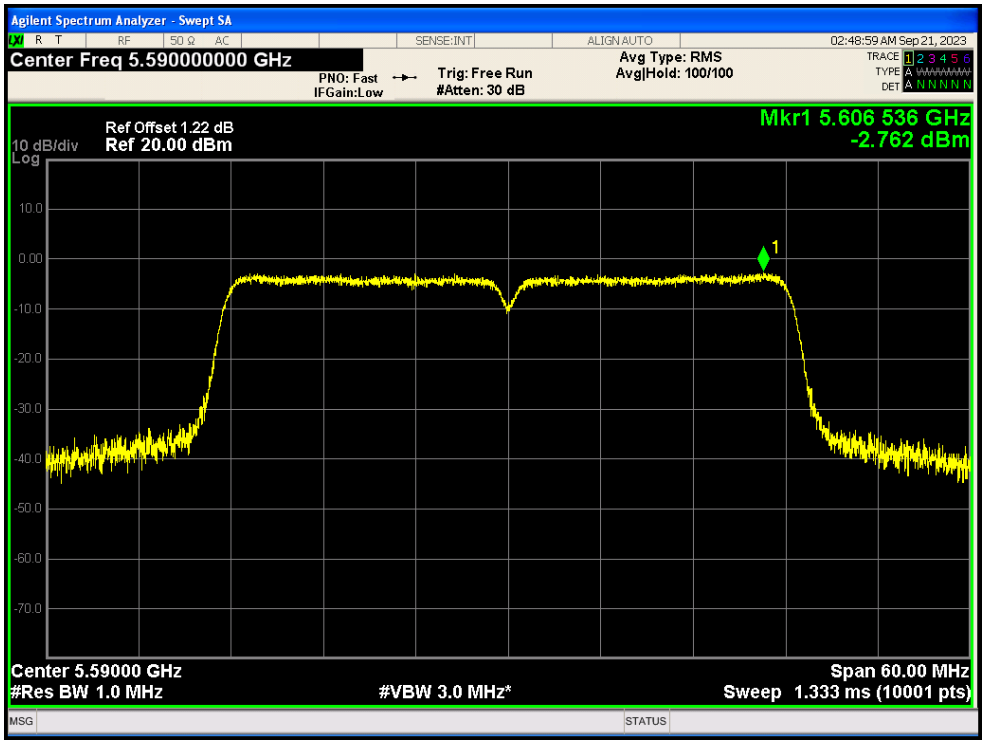
PSD NVNT n20 5700MHz Ant2



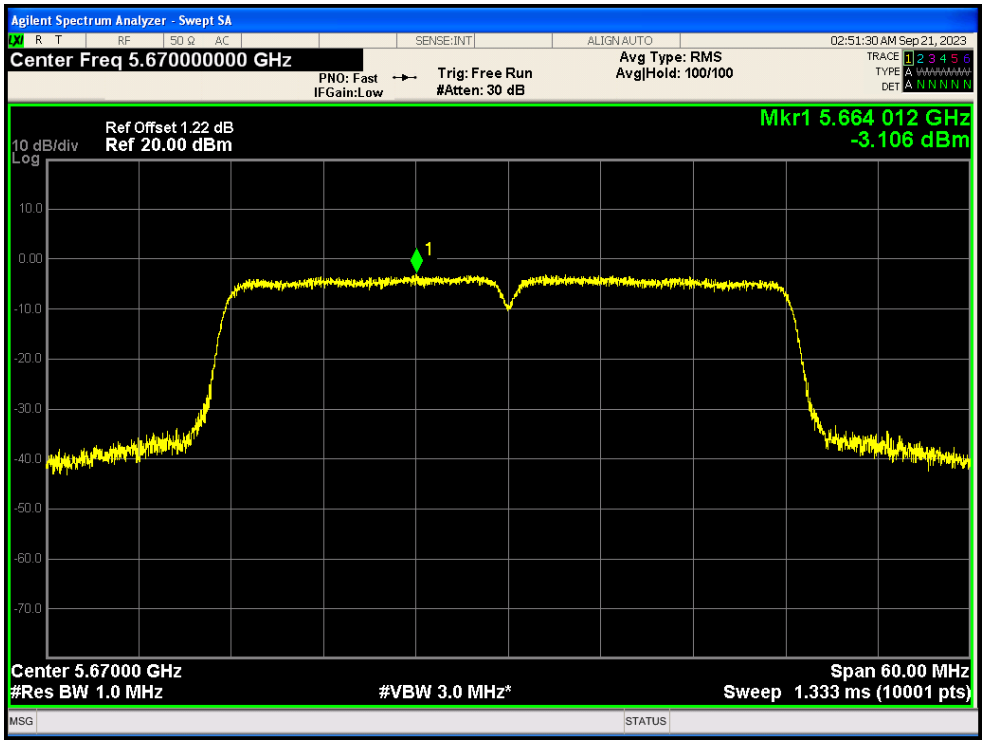
PSD NVNT n40 5510MHz Ant1



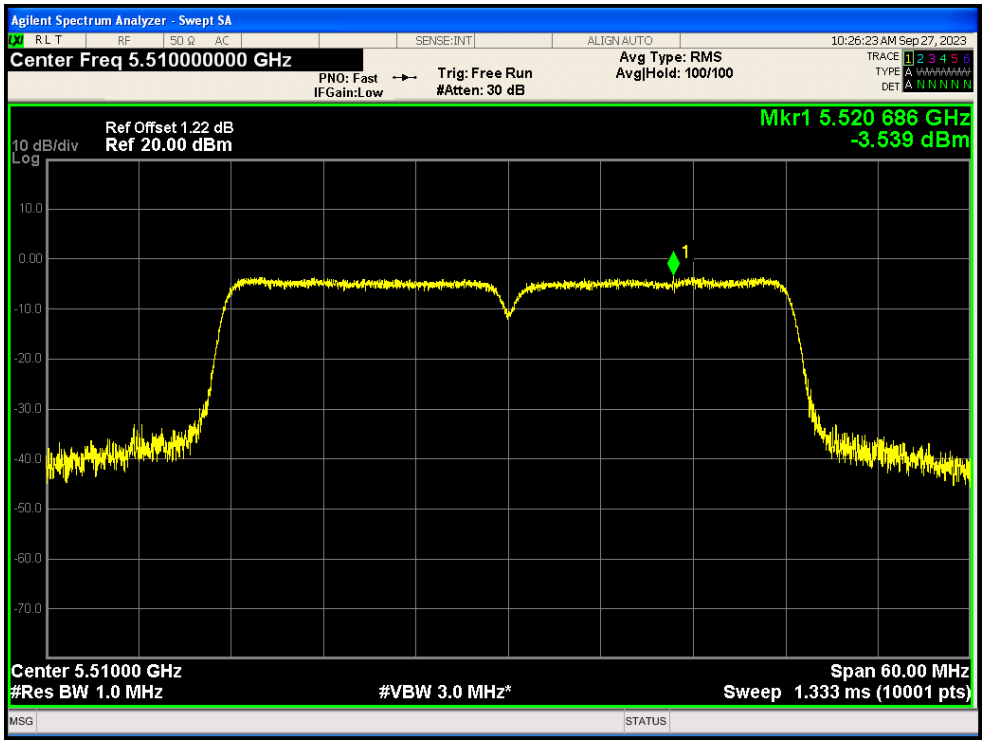
PSD NVNT n40 5590MHz Ant1



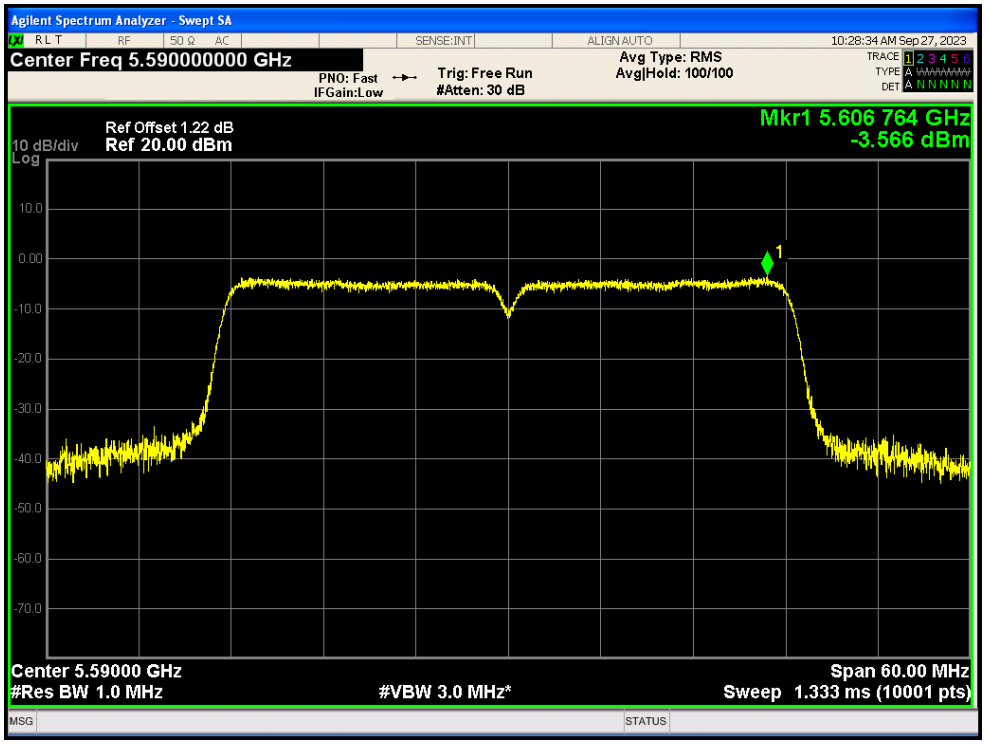
PSD NVNT n40 5670MHz Ant1



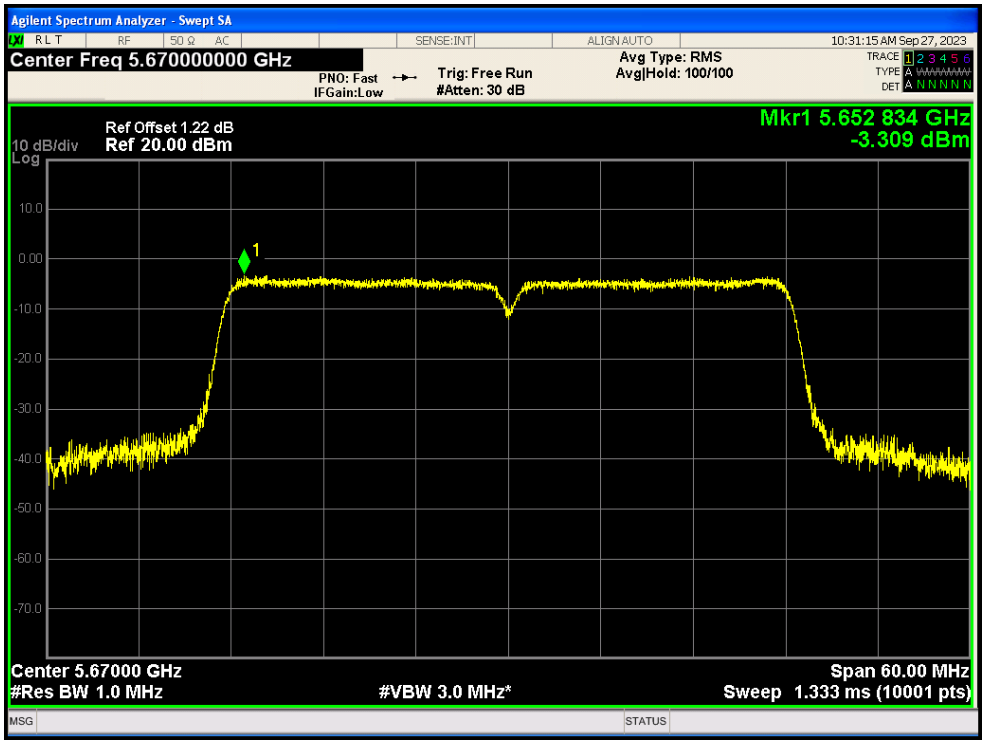
PSD NVNT n40 5510MHz Ant2



PSD NVNT n40 5590MHz Ant2



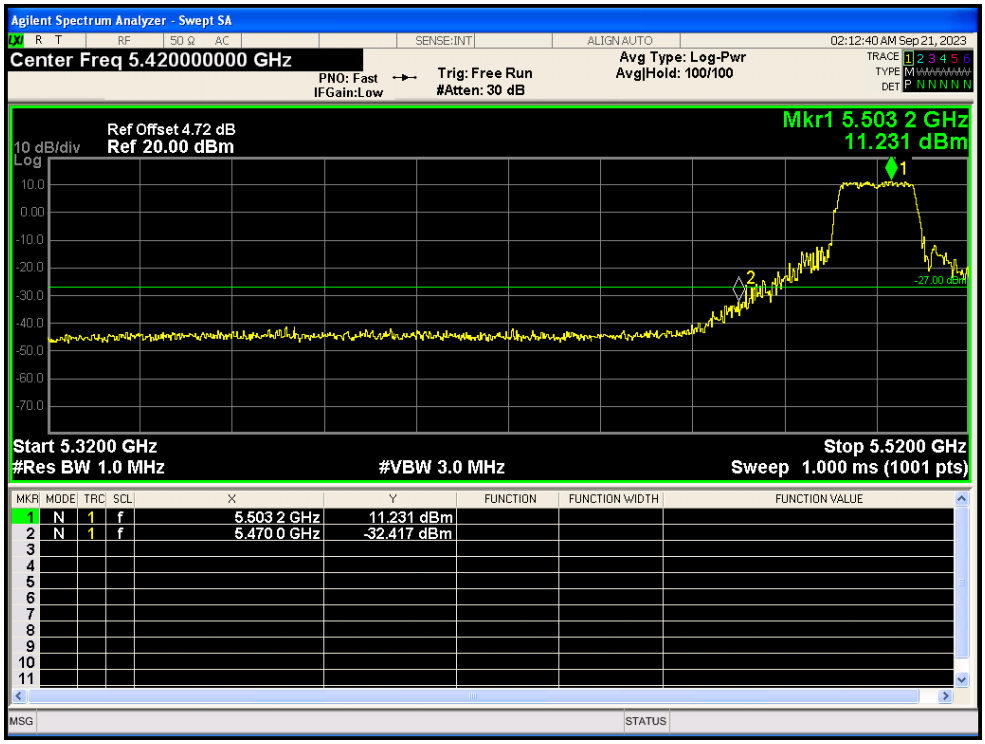
PSD NVNT n40 5670MHz Ant2



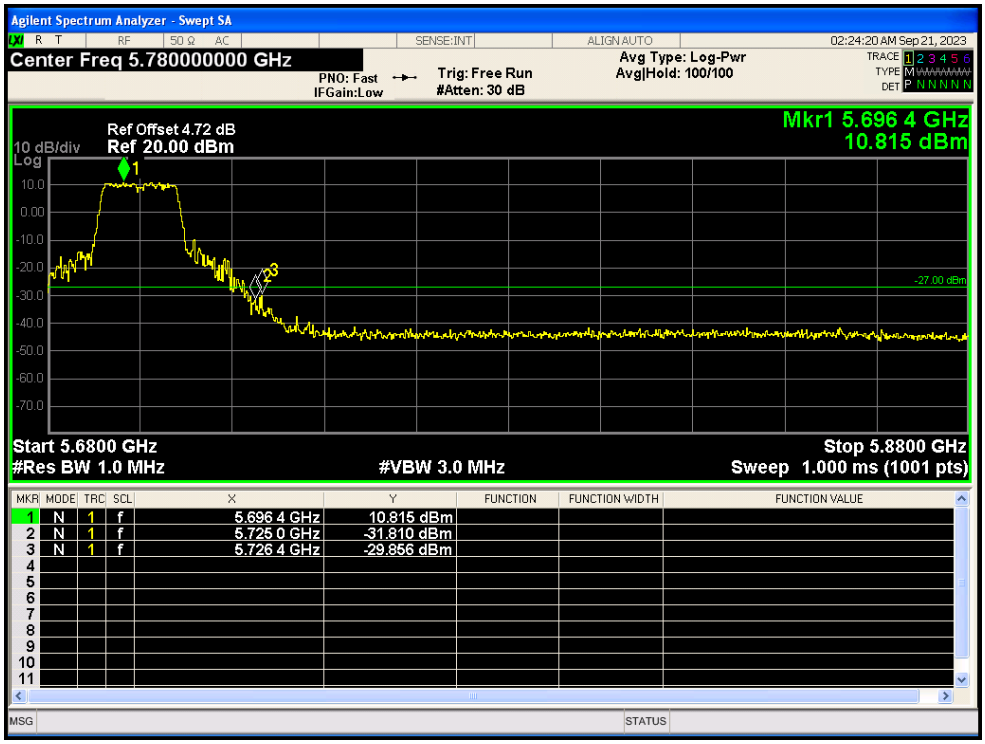
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-32.41	-27	Pass
NVNT	a	5700	Ant1	-29.85	-27	Pass
NVNT	a	5500	Ant2	-32.45	-27	Pass
NVNT	a	5700	Ant2	-32.33	-27	Pass
NVNT	ac20	5500	Ant1	-31.16	-27	Pass
NVNT	ac20	5700	Ant1	-28.57	-27	Pass
NVNT	ac20	5500	Ant2	-30.35	-27	Pass
NVNT	ac20	5700	Ant2	-27.95	-27	Pass
NVNT	ac40	5510	Ant1	-30.42	-27	Pass
NVNT	ac40	5670	Ant1	-40.34	-27	Pass
NVNT	ac40	5510	Ant2	-31.7	-27	Pass
NVNT	ac40	5670	Ant2	-42.58	-27	Pass
NVNT	ac80	5530	Ant1	-33.43	-27	Pass
NVNT	ac80	5610	Ant1	-41.14	-27	Pass
NVNT	ac80	5530	Ant2	-30.08	-27	Pass
NVNT	ac80	5610	Ant2	-42.98	-27	Pass
NVNT	n20	5500	Ant1	-31.72	-27	Pass
NVNT	n20	5700	Ant1	-29.61	-27	Pass
NVNT	n20	5500	Ant2	-33.89	-27	Pass
NVNT	n20	5700	Ant2	-28.32	-27	Pass
NVNT	n40	5510	Ant1	-29.76	-27	Pass
NVNT	n40	5670	Ant1	-41	-27	Pass
NVNT	n40	5510	Ant2	-32	-27	Pass
NVNT	n40	5670	Ant2	-43.14	-27	Pass

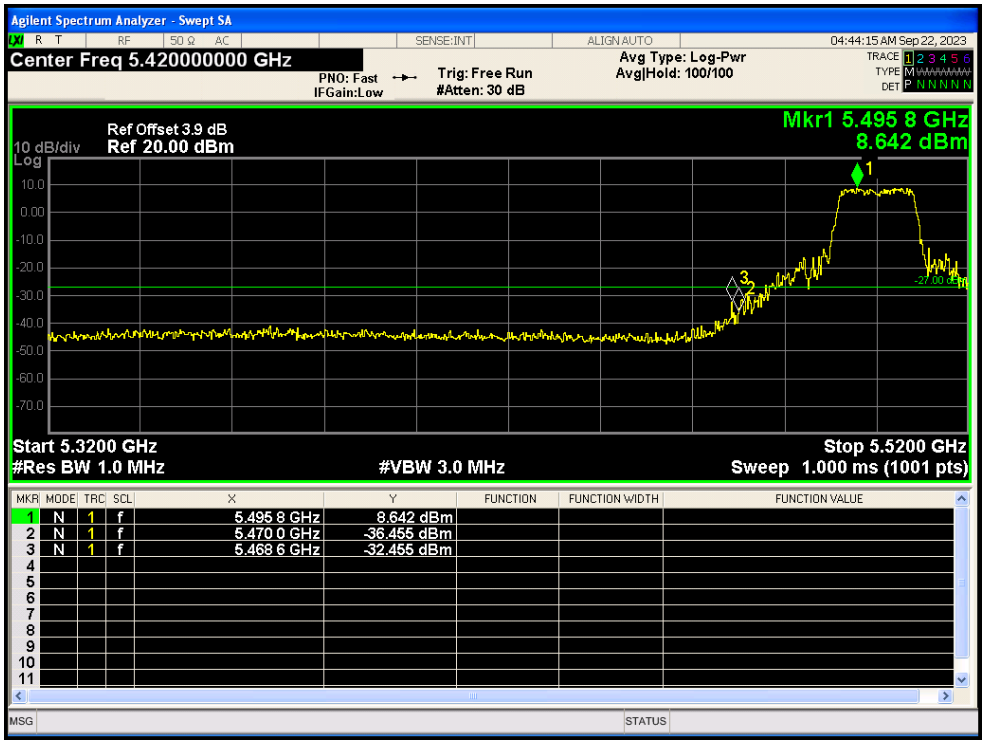
Band Edge NVNT a 5500MHz Low Ant1



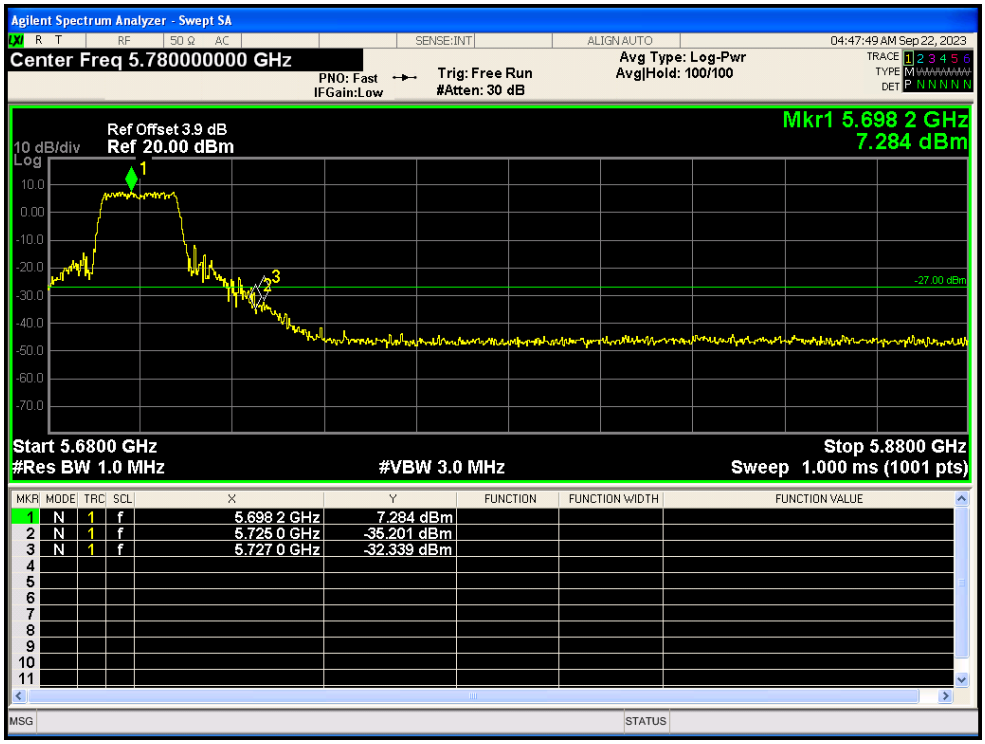
Band Edge NVNT a 5700MHz High Ant1



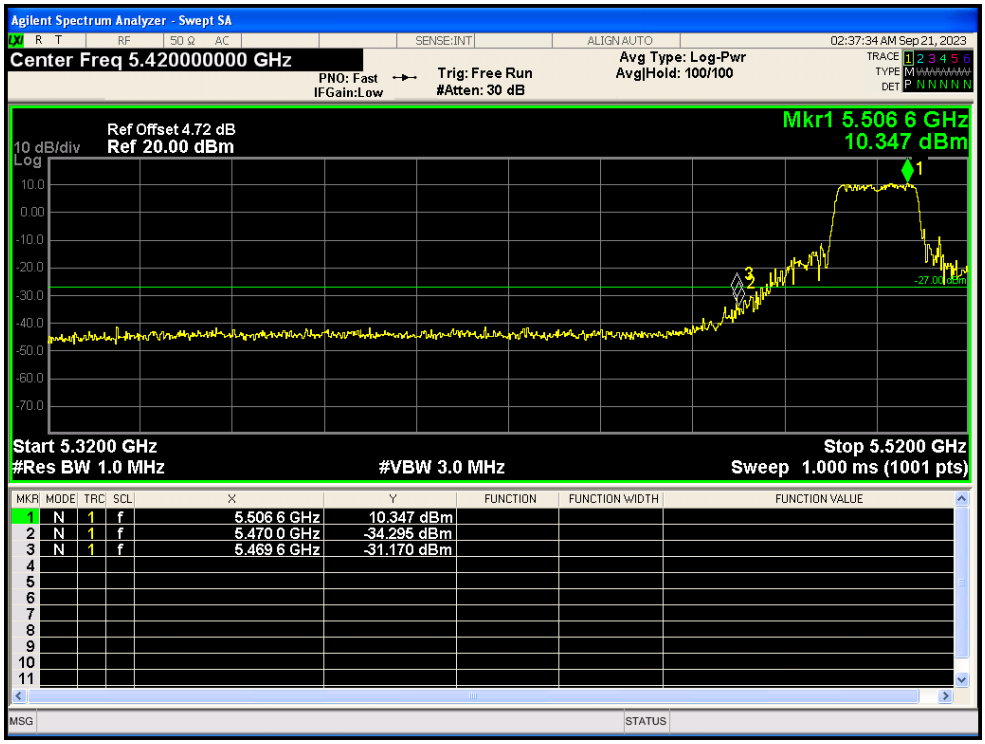
Band Edge NVNT a 5500MHz Low Ant2



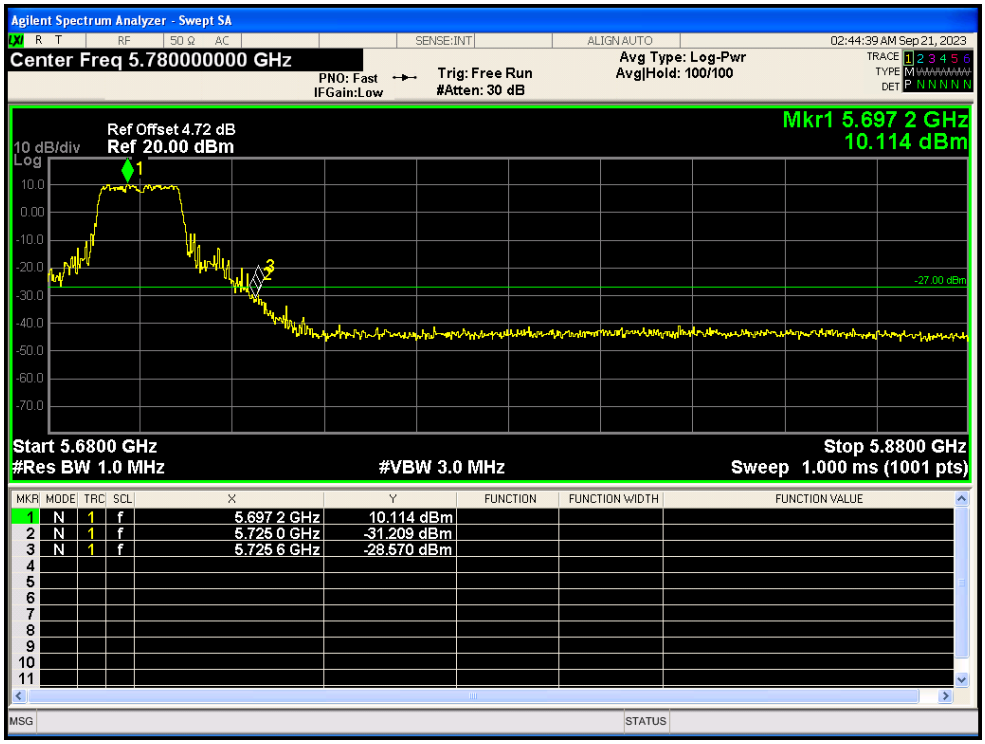
Band Edge NVNT a 5700MHz High Ant2



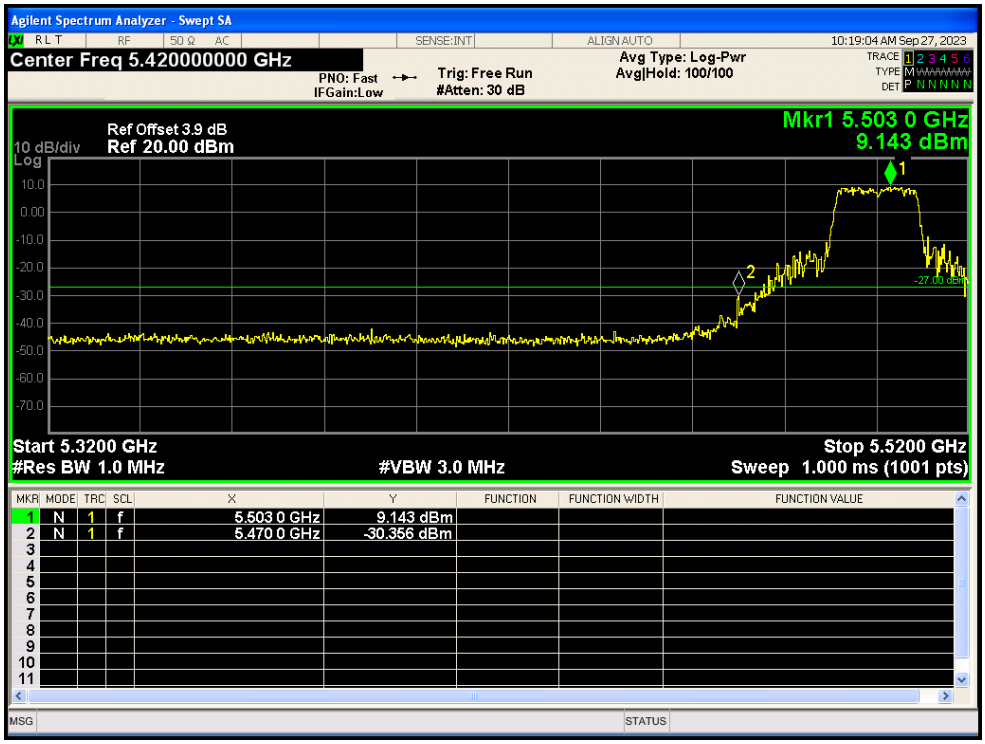
Band Edge NVNT ac20 5500MHz Low Ant1



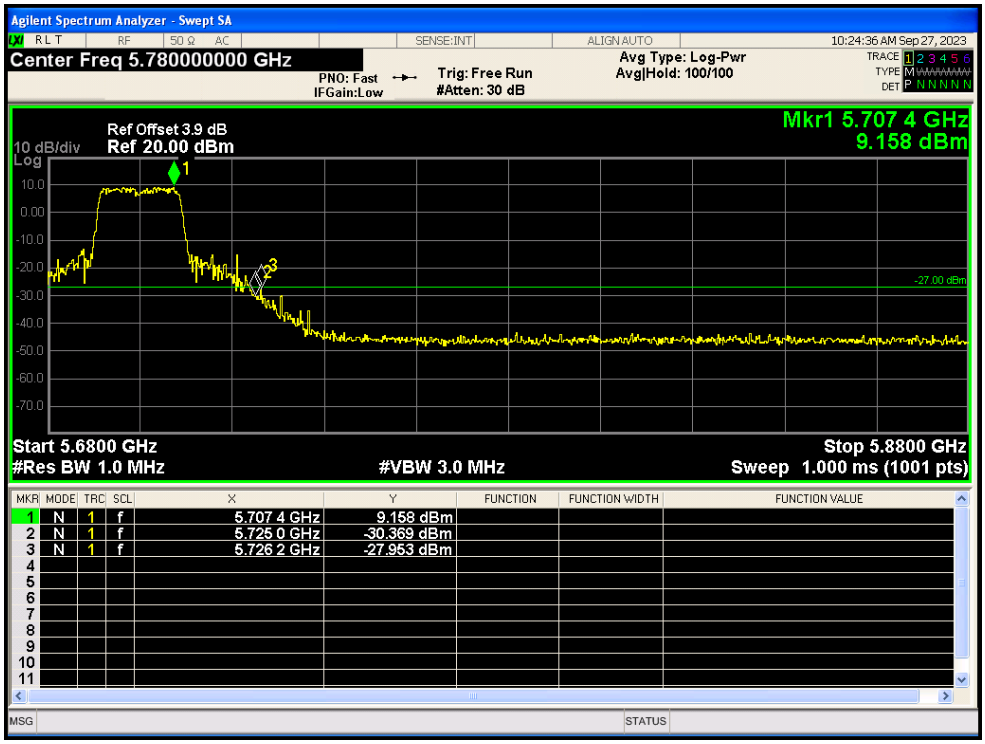
Band Edge NVNT ac20 5700MHz High Ant1



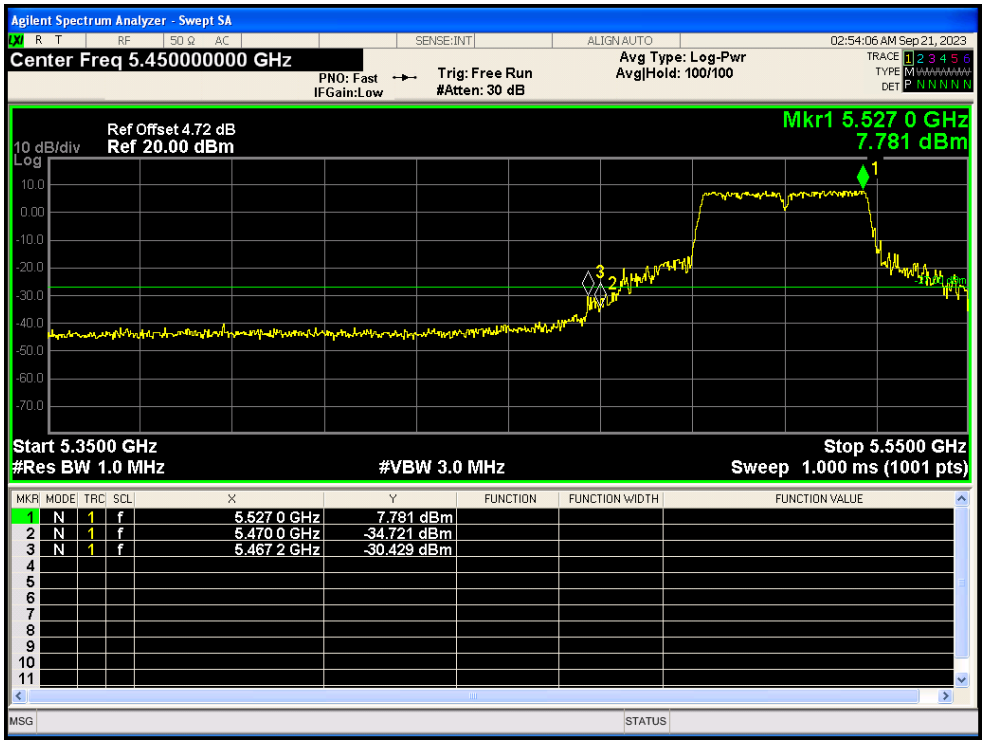
Band Edge NVNT ac20 5500MHz Low Ant2



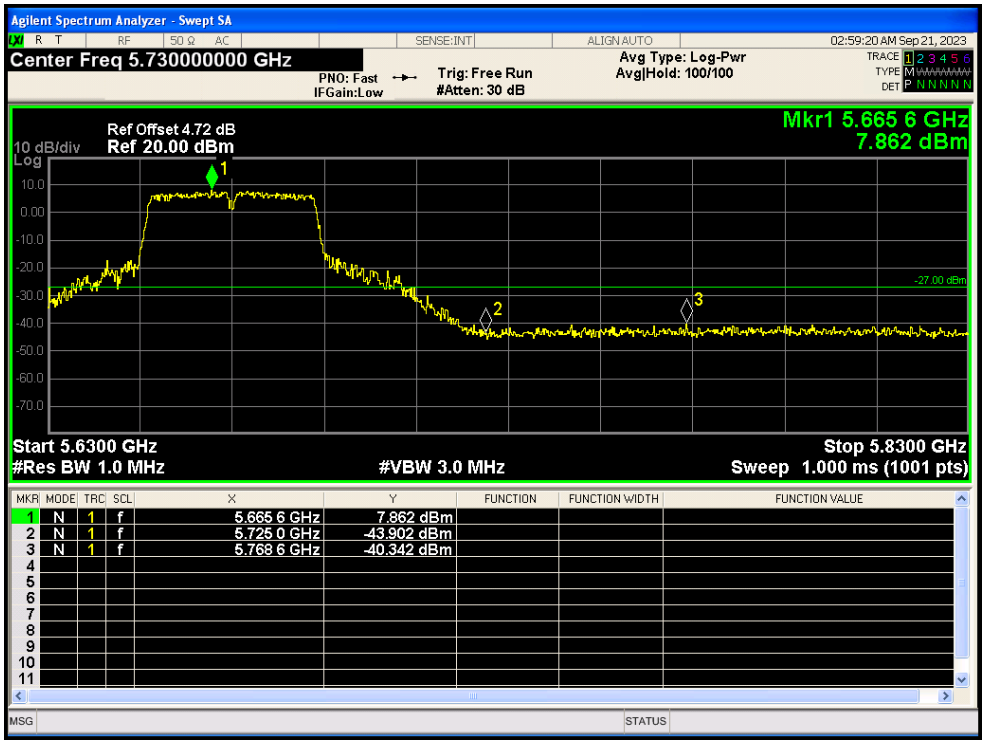
Band Edge NVNT ac20 5700MHz High Ant2



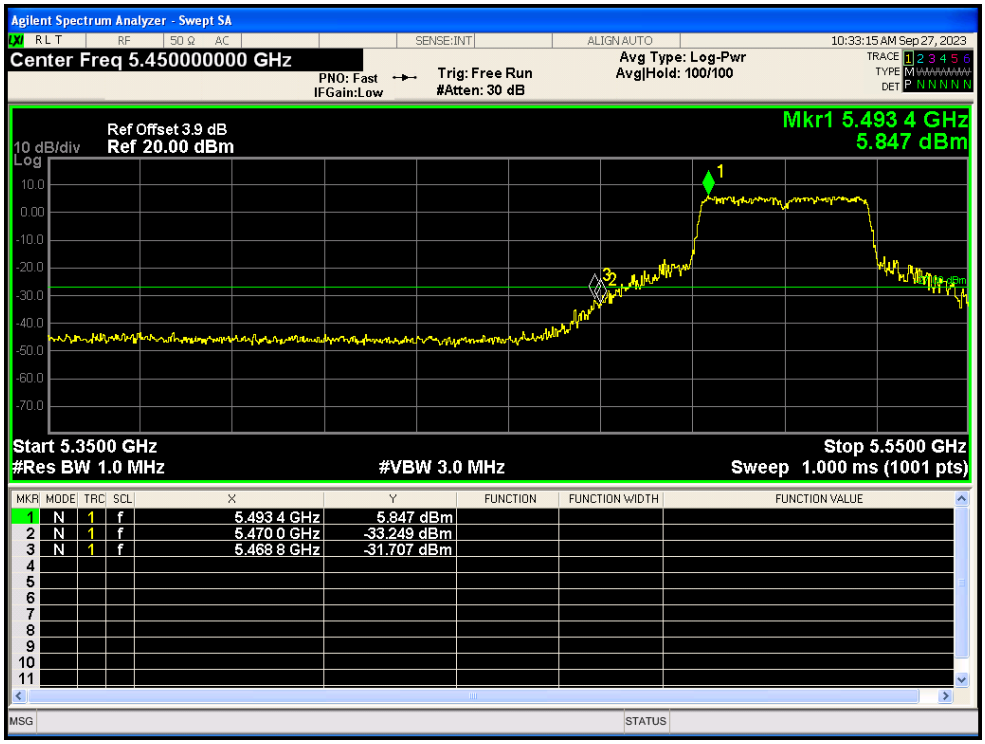
Band Edge NVNT ac40 5510MHz Low Ant1



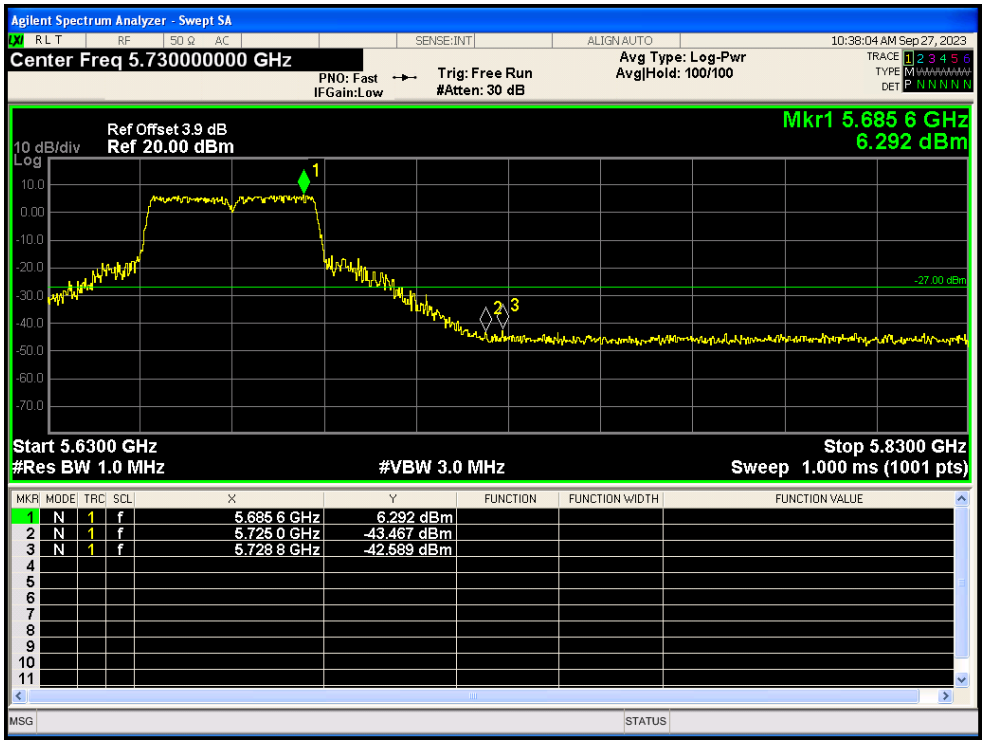
Band Edge NVNT ac40 5670MHz High Ant1



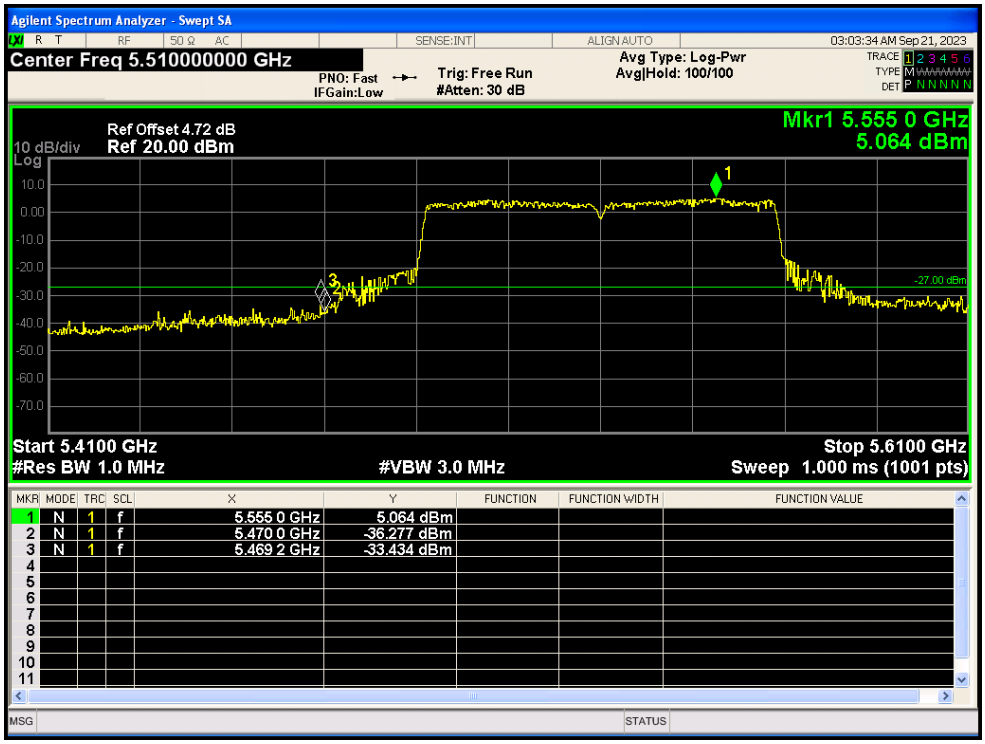
Band Edge NVNT ac40 5510MHz Low Ant2



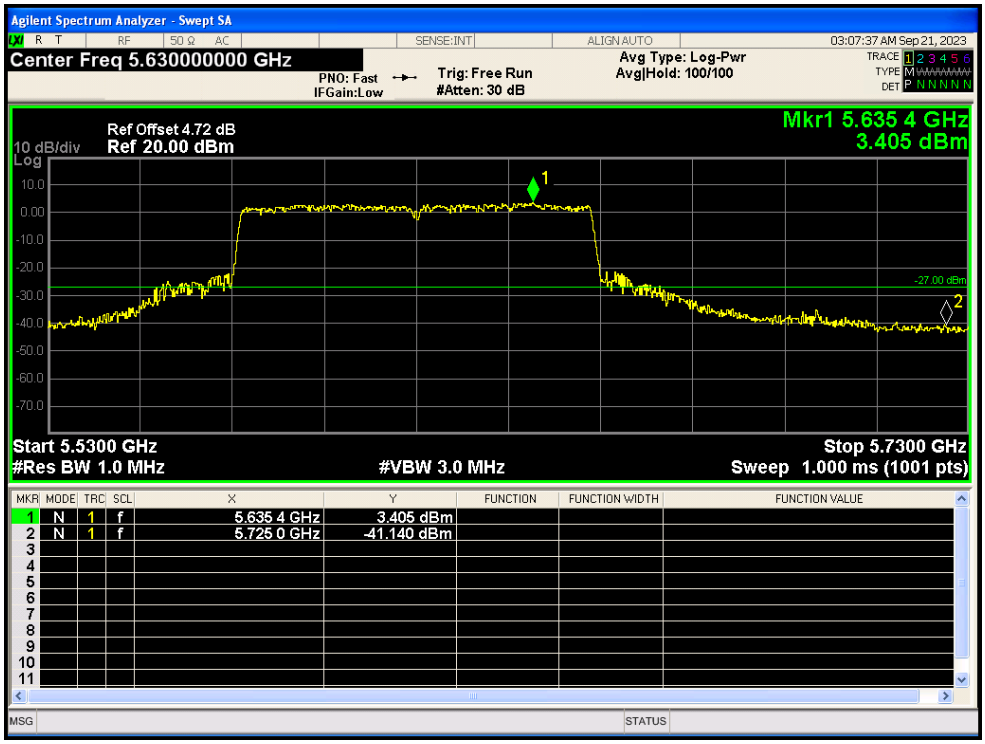
Band Edge NVNT ac40 5670MHz High Ant2



Band Edge NVNT ac80 5530MHz Low Ant1

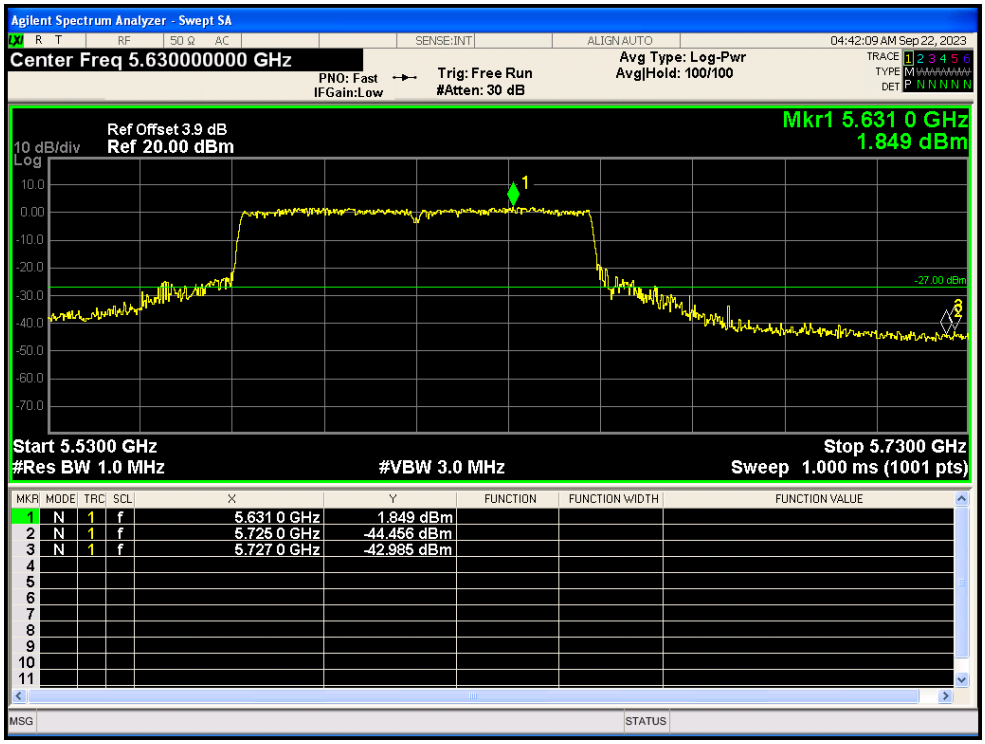


Band Edge NVNT ac80 5610MHz High Ant1

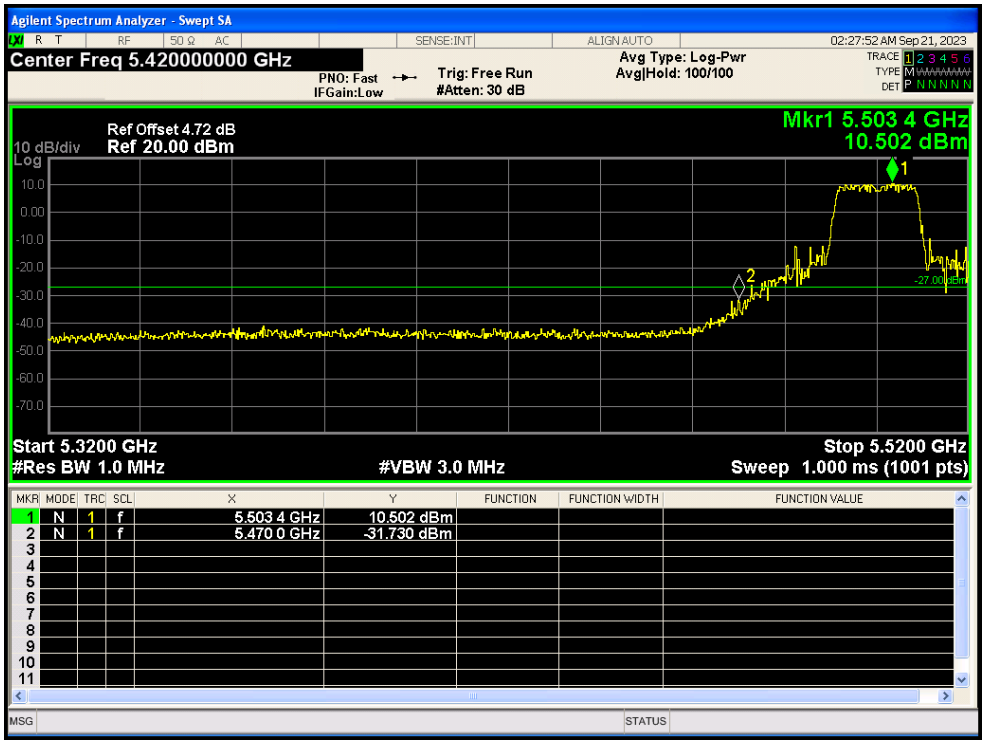


Band Edge NVNT ac80 5530MHz Low Ant2

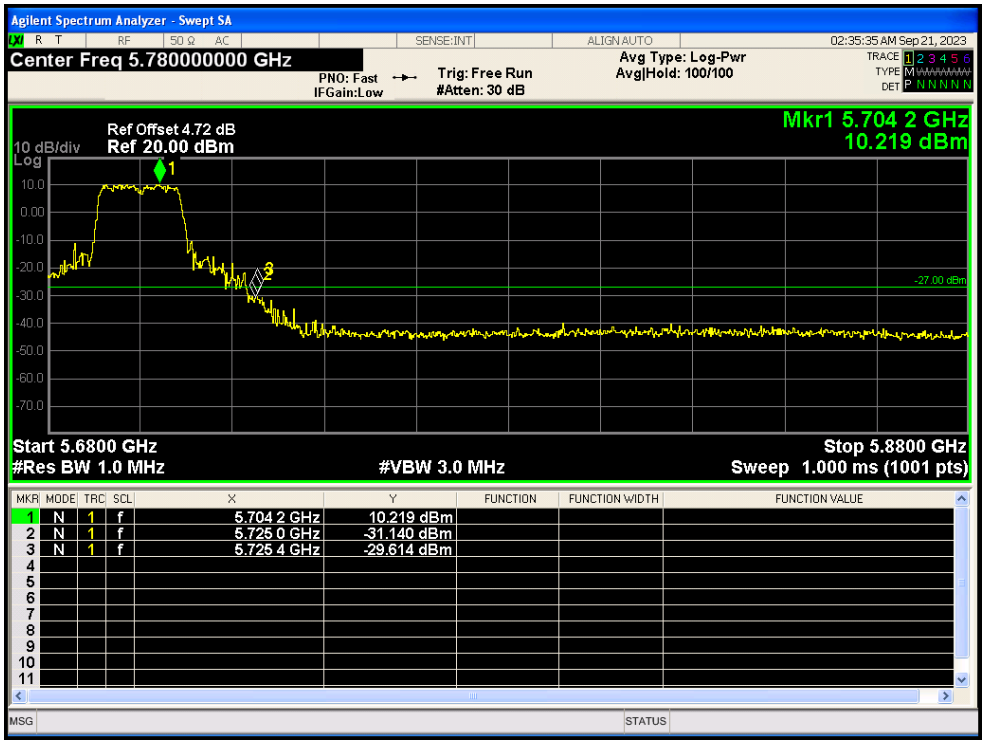
Band Edge NVNT ac80 5610MHz High Ant2



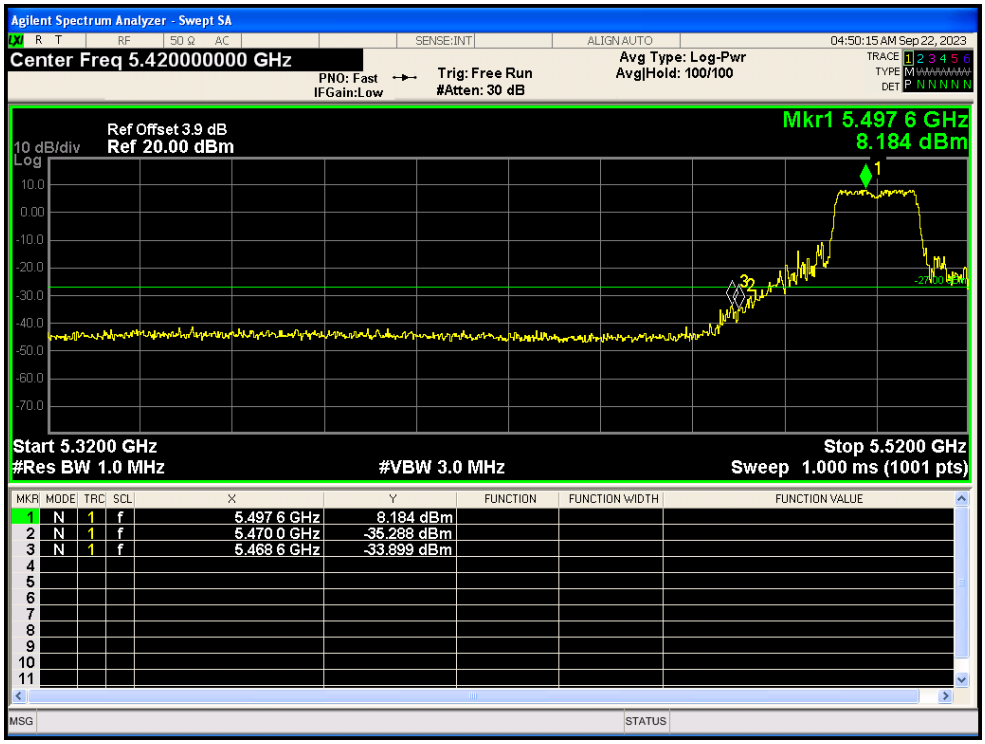
Band Edge NVNT n20 5500MHz Low Ant1



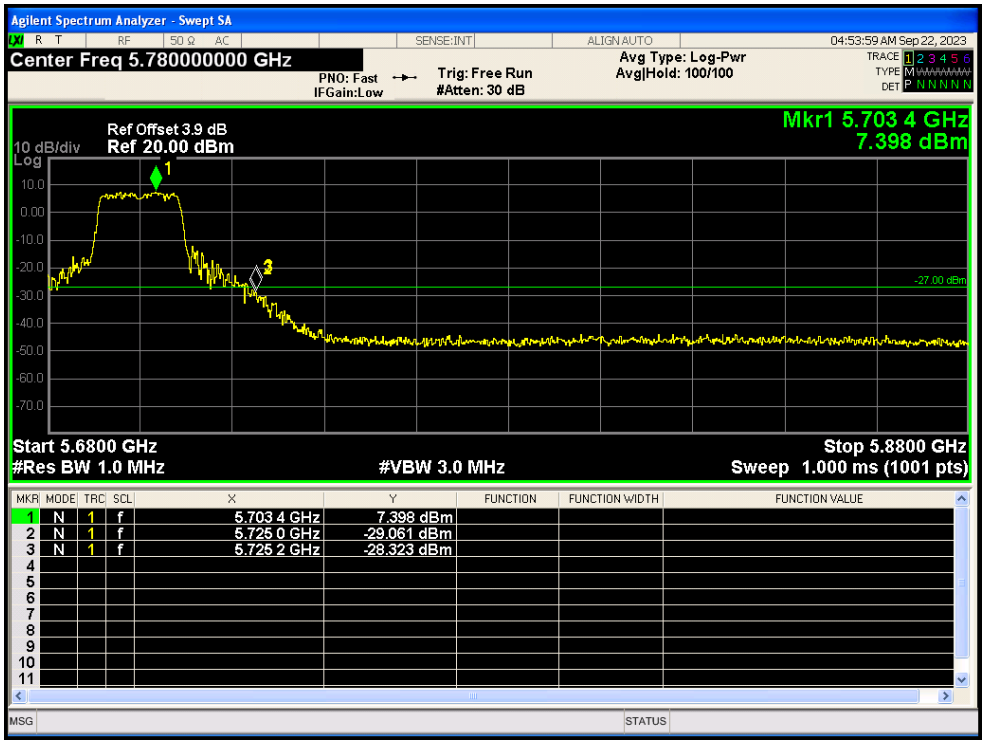
Band Edge NVNT n20 5700MHz High Ant1



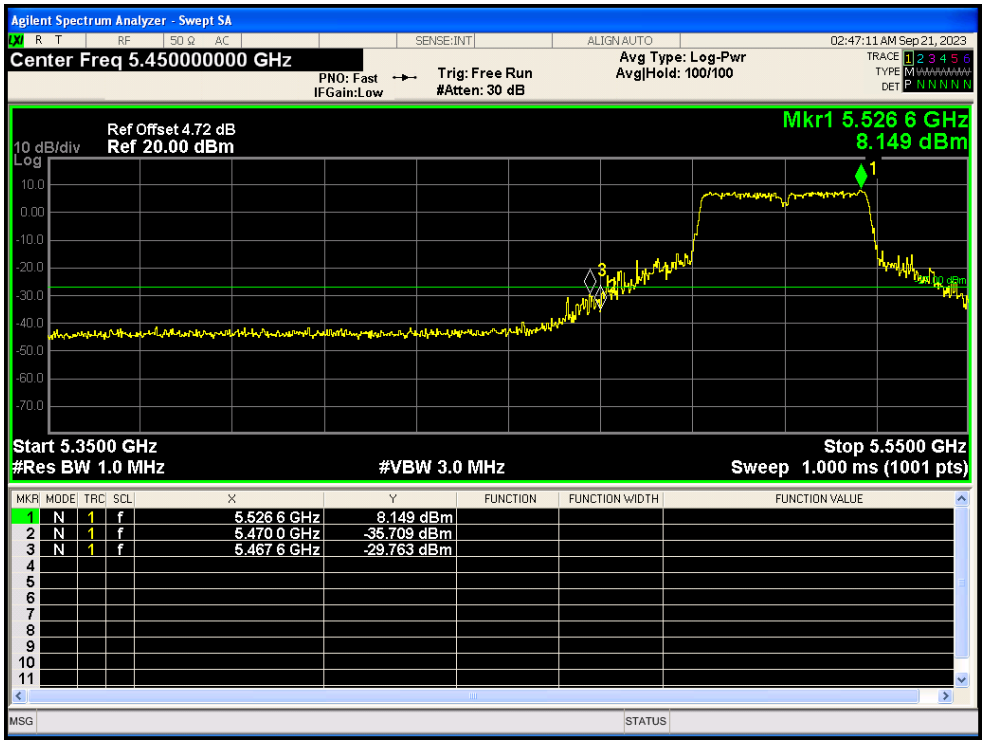
Band Edge NVNT n20 5500MHz Low Ant2



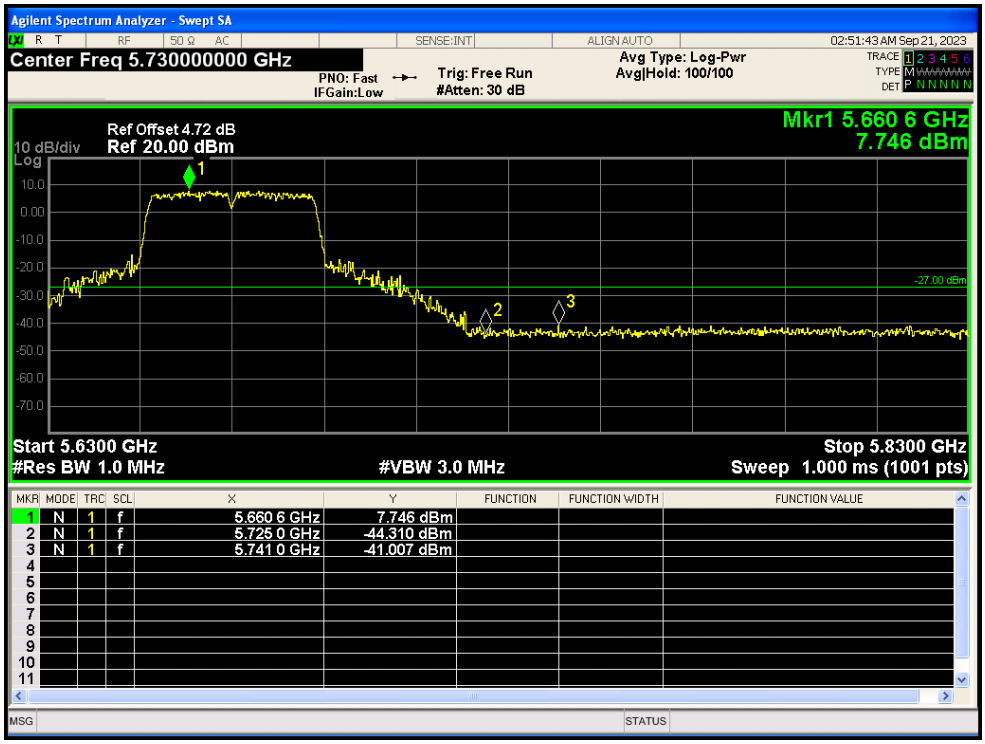
Band Edge NVNT n20 5700MHz High Ant2



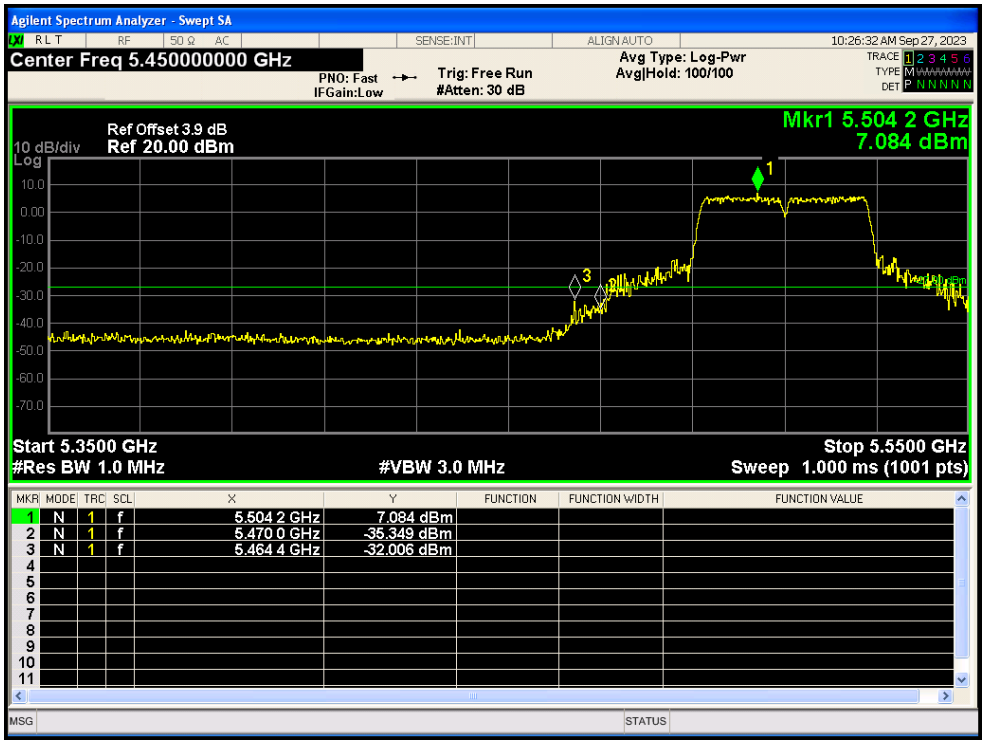
Band Edge NVNT n40 5510MHz Low Ant1



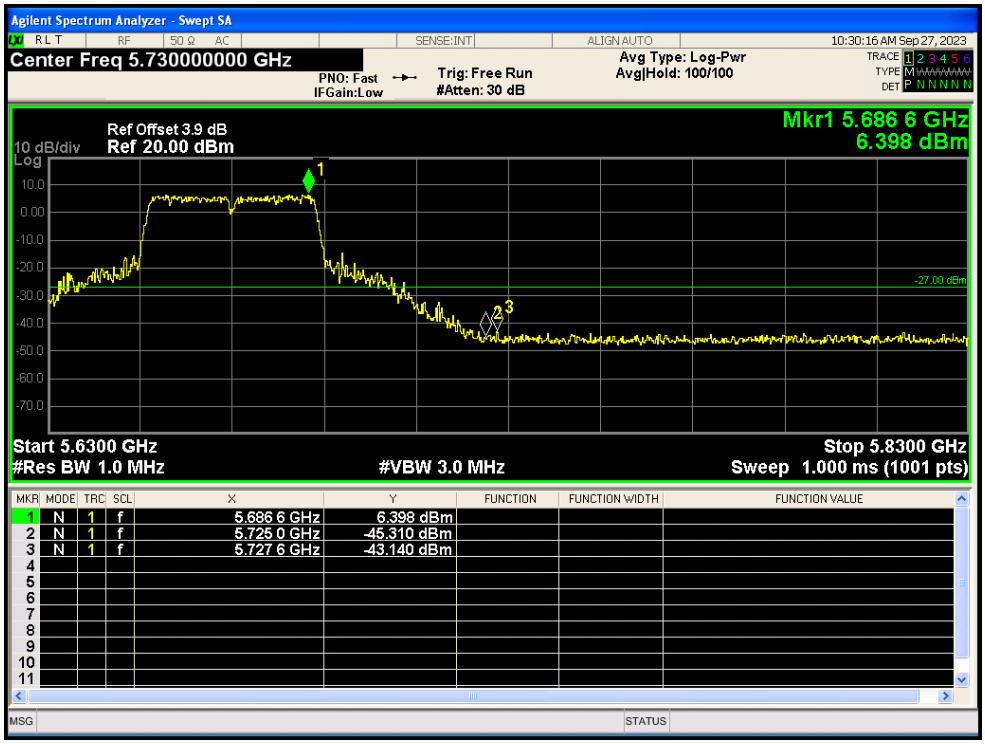
Band Edge NVNT n40 5670MHz High Ant1



Band Edge NVNT n40 5510MHz Low Ant2



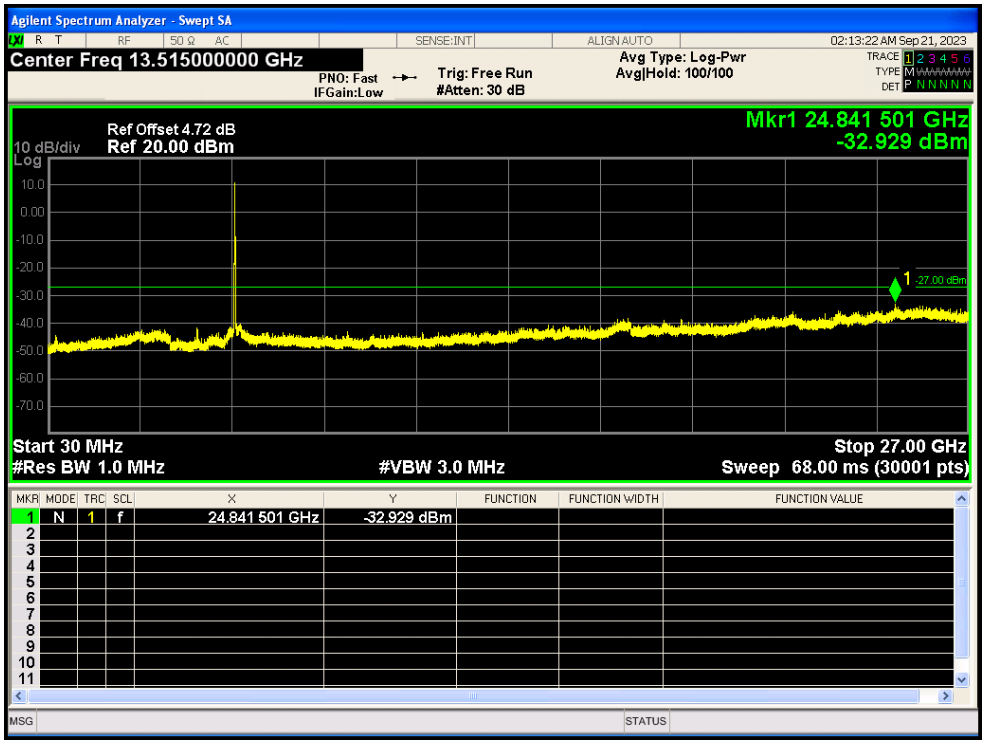
Band Edge NVNT n40 5670MHz High Ant2



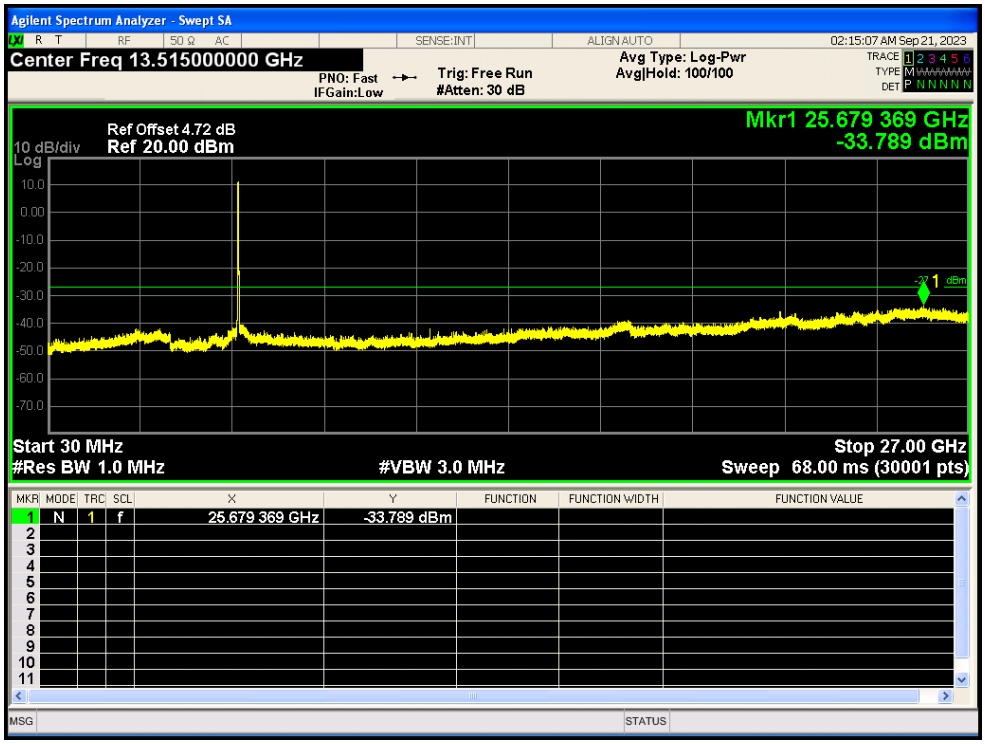
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-32.92	-27	Pass
NVNT	a	5600	Ant1	-33.78	-27	Pass
NVNT	a	5700	Ant1	-33.72	-27	Pass
NVNT	a	5500	Ant2	-34.91	-27	Pass
NVNT	a	5600	Ant2	-34.23	-27	Pass
NVNT	a	5700	Ant2	-33.89	-27	Pass
NVNT	ac20	5500	Ant1	-34.03	-27	Pass
NVNT	ac20	5600	Ant1	-33.57	-27	Pass
NVNT	ac20	5700	Ant1	-33.43	-27	Pass
NVNT	ac20	5500	Ant2	-34.53	-27	Pass
NVNT	ac20	5600	Ant2	-34.35	-27	Pass
NVNT	ac20	5700	Ant2	-34.29	-27	Pass
NVNT	ac40	5510	Ant1	-33.86	-27	Pass
NVNT	ac40	5590	Ant1	-33.15	-27	Pass
NVNT	ac40	5670	Ant1	-33.96	-27	Pass
NVNT	ac40	5510	Ant2	-34.26	-27	Pass
NVNT	ac40	5590	Ant2	-33.65	-27	Pass
NVNT	ac40	5670	Ant2	-34.32	-27	Pass
NVNT	ac80	5610	Ant1	-34.1	-27	Pass
NVNT	ac80	5530	Ant2	-34.44	-27	Pass
NVNT	ac80	5610	Ant2	-33.83	-27	Pass
NVNT	n20	5500	Ant1	-33.8	-27	Pass
NVNT	n20	5600	Ant1	-33.7	-27	Pass
NVNT	n20	5700	Ant1	-33.38	-27	Pass
NVNT	n20	5500	Ant2	-33.94	-27	Pass
NVNT	n20	5600	Ant2	-34.47	-27	Pass
NVNT	n20	5700	Ant2	-33.9	-27	Pass
NVNT	n40	5510	Ant1	-34.36	-27	Pass
NVNT	n40	5590	Ant1	-33.84	-27	Pass
NVNT	n40	5670	Ant1	-33.63	-27	Pass
NVNT	n40	5510	Ant2	-34.26	-27	Pass
NVNT	n40	5590	Ant2	-33.83	-27	Pass
NVNT	n40	5670	Ant2	-34.61	-27	Pass

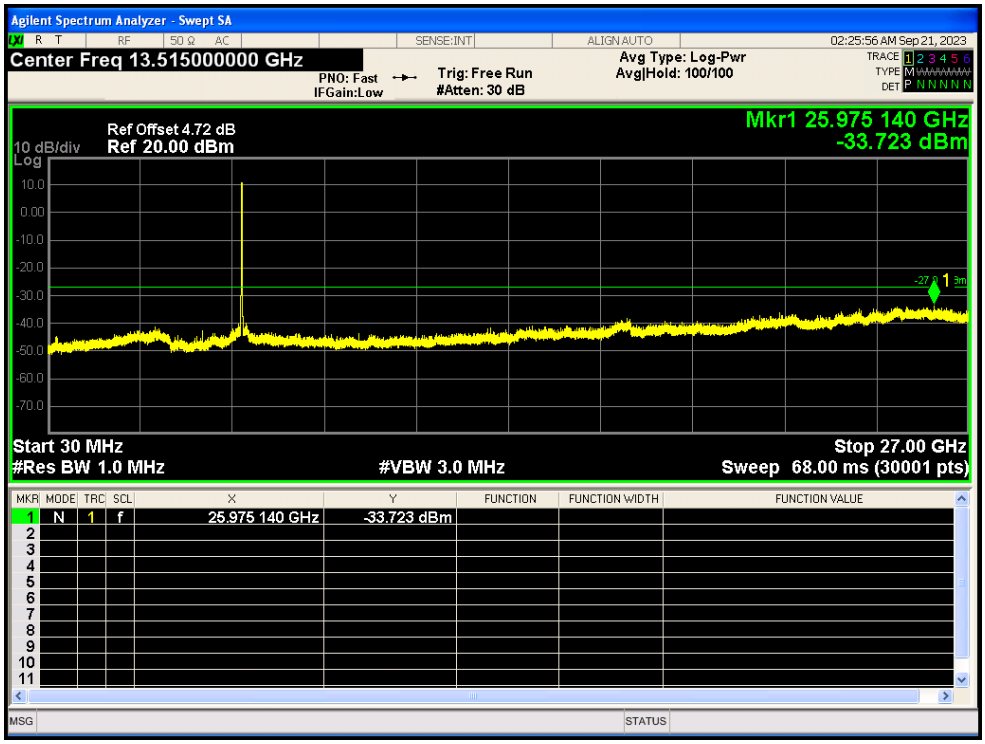
Tx. Spurious NVNT a 5500MHz Ant1 Emission



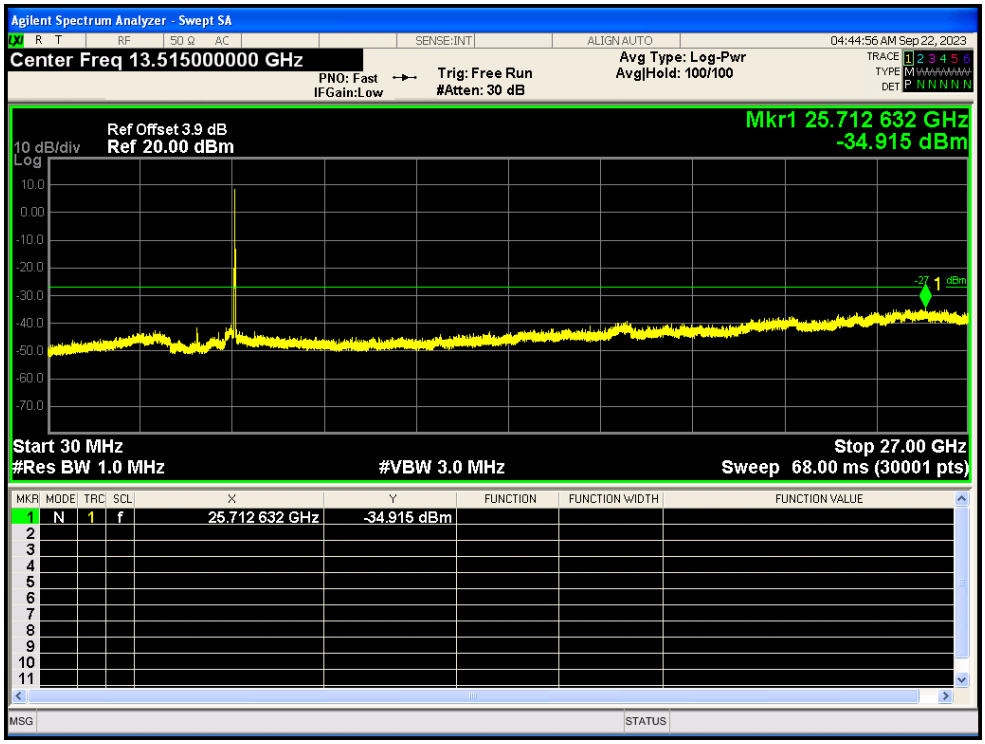
Tx. Spurious NVNT a 5600MHz Ant1 Emission



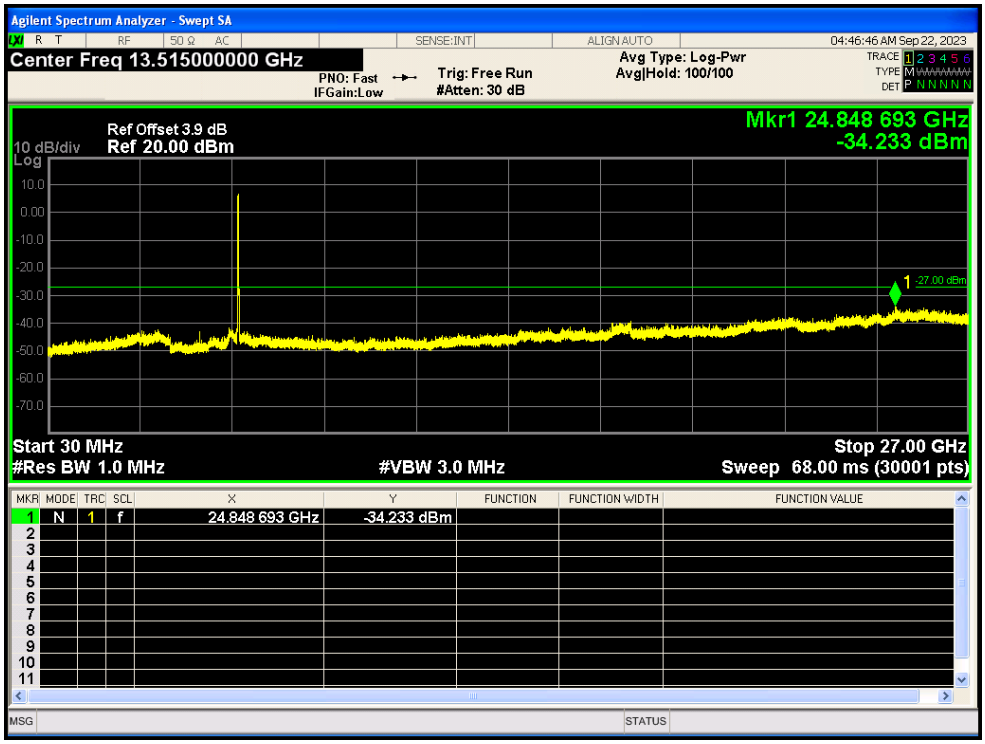
Tx. Spurious NVNT a 5700MHz Ant1 Emission



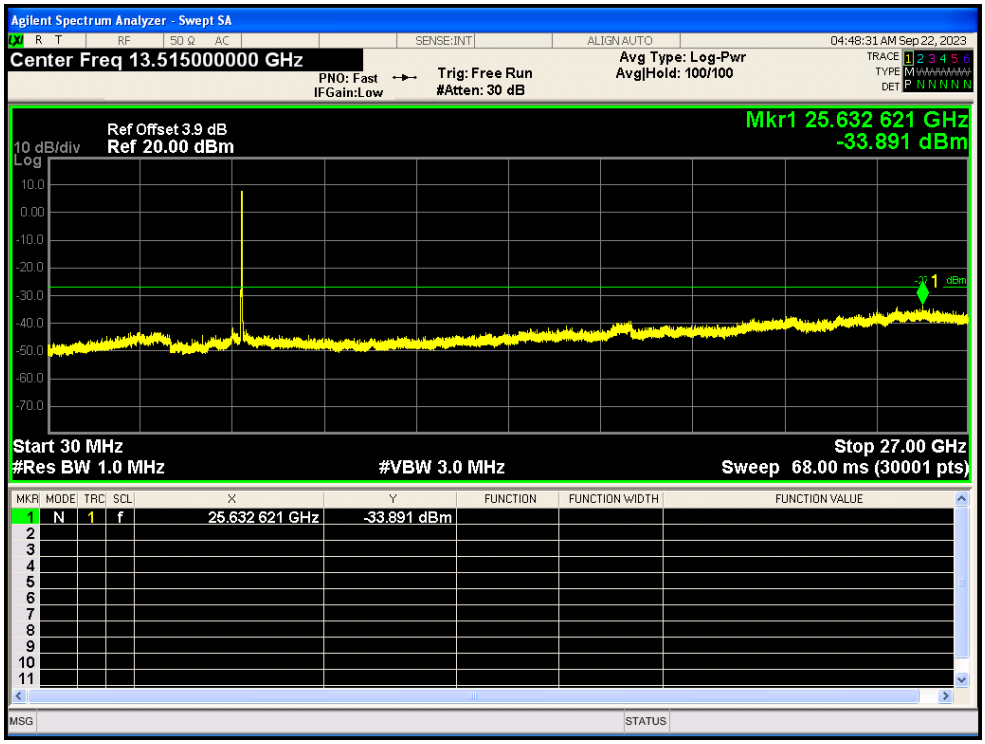
Tx. Spurious NVNT a 5500MHz Ant2 Emission



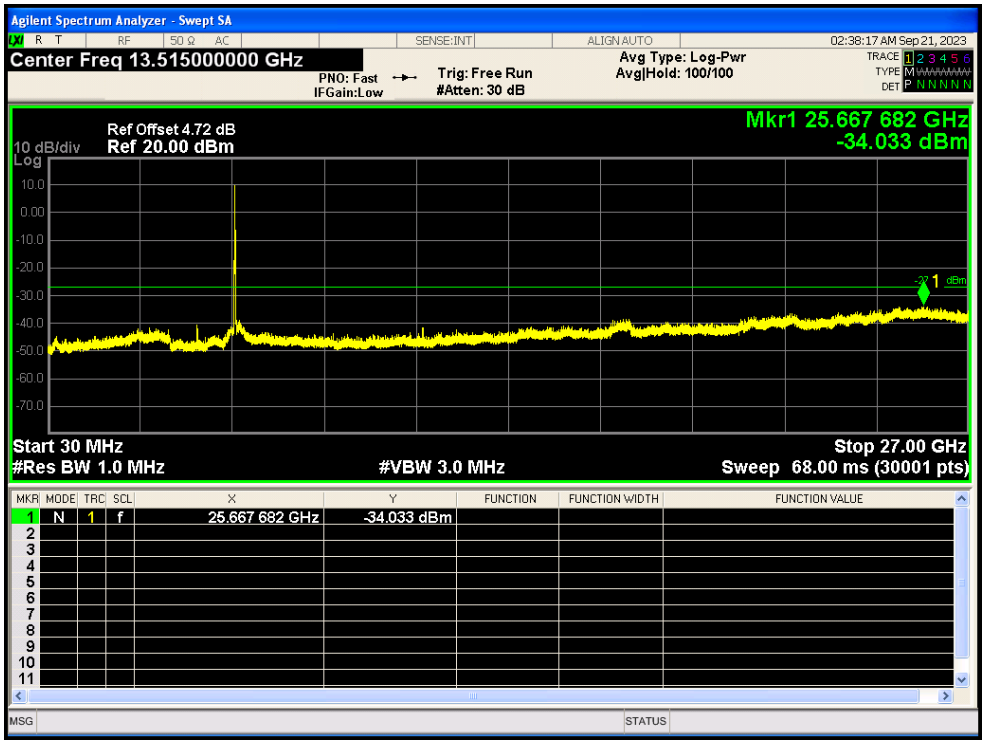
Tx. Spurious NVNT a 5600MHz Ant2 Emission



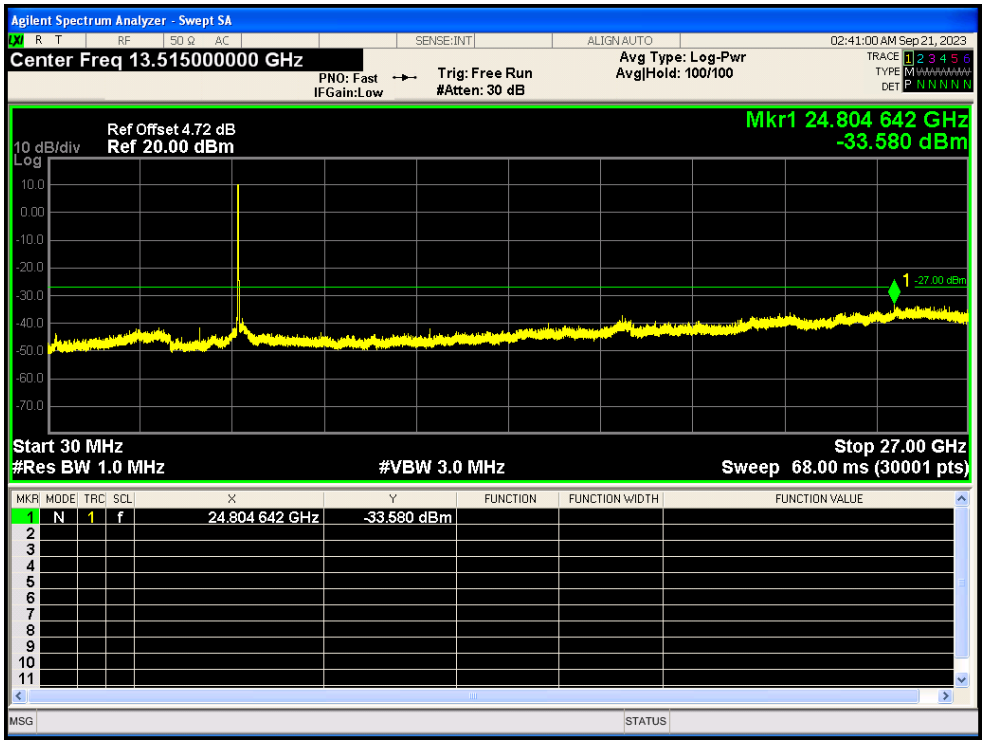
Tx. Spurious NVNT a 5700MHz Ant2 Emission



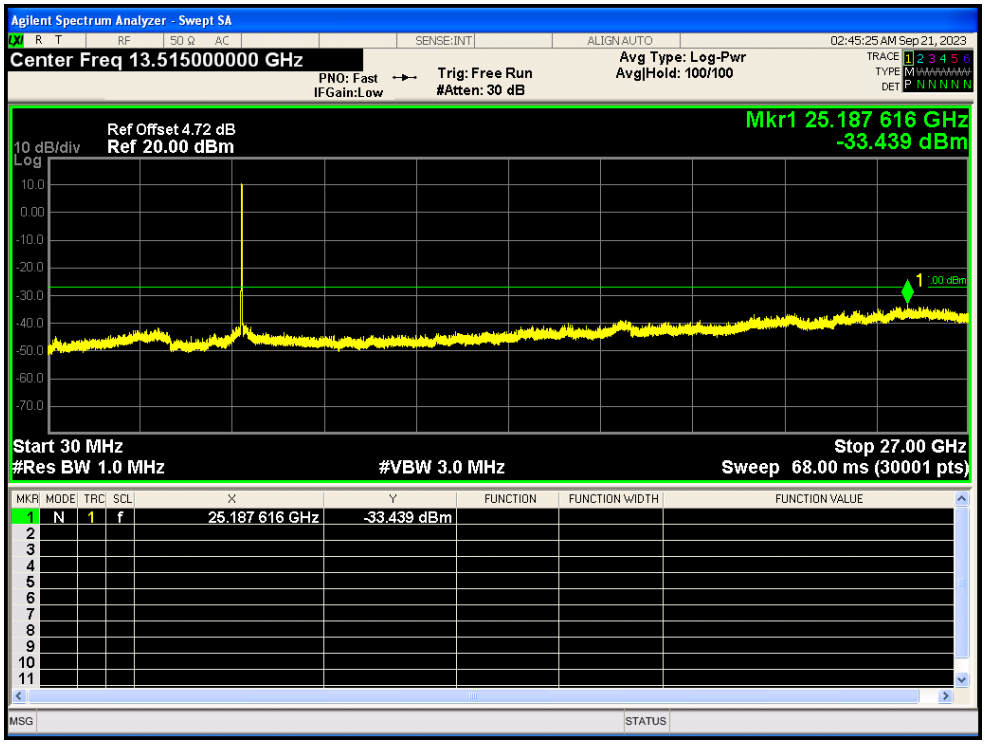
Tx. Spurious NVNT ac20 5500MHz Ant1 Emission



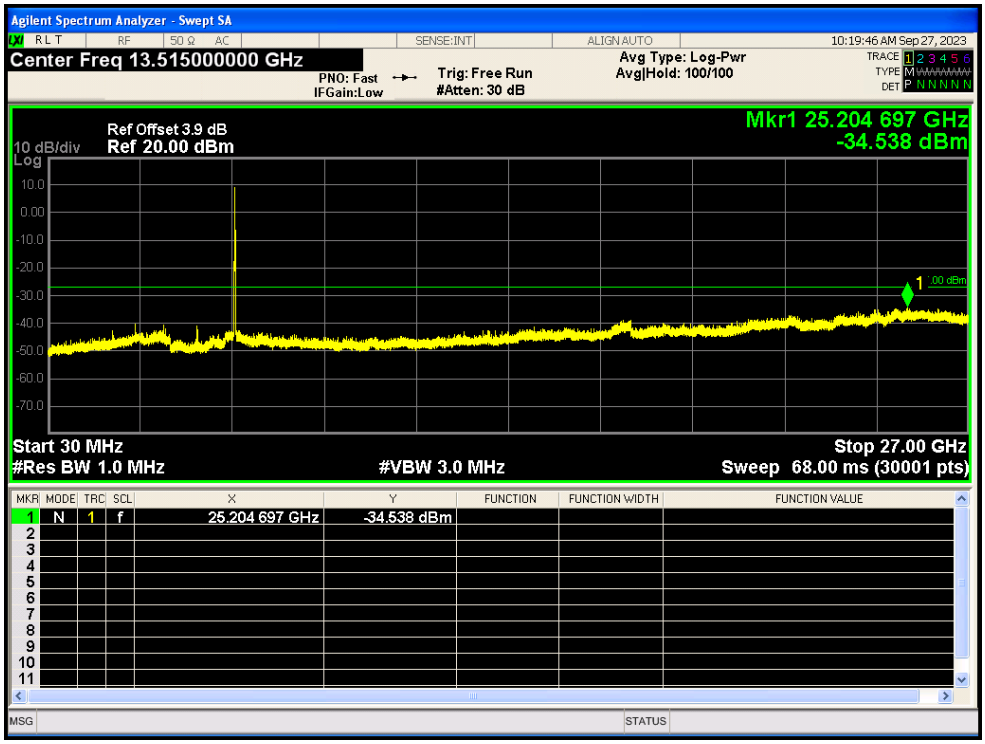
Tx. Spurious NVNT ac20 5600MHz Ant1 Emission



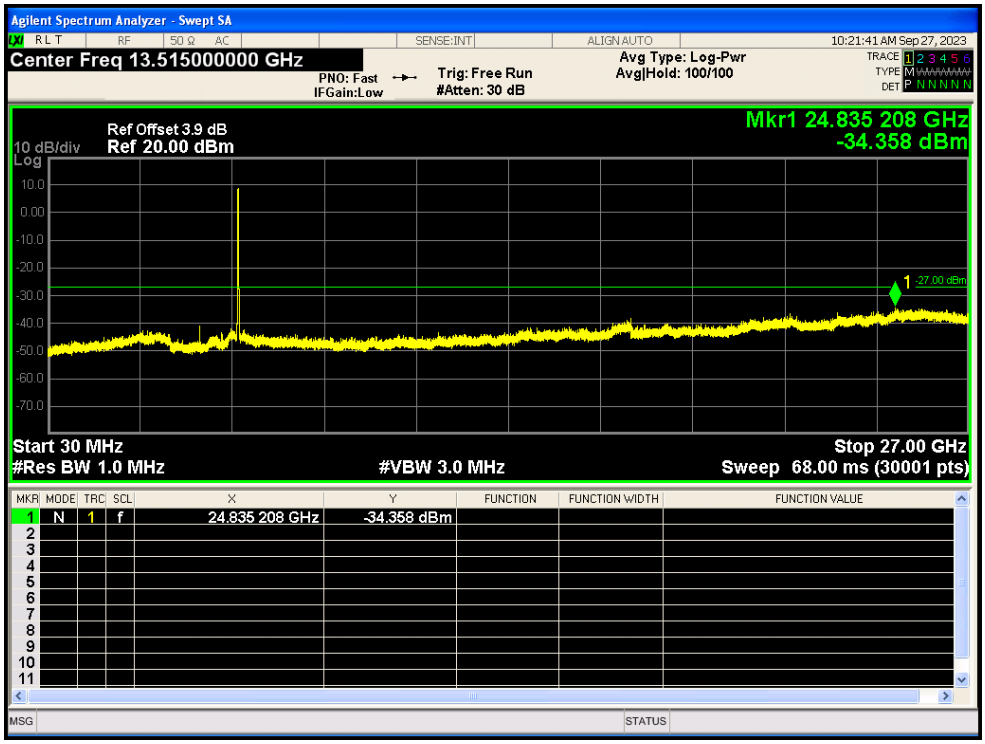
Tx. Spurious NVNT ac20 5700MHz Ant1 Emission



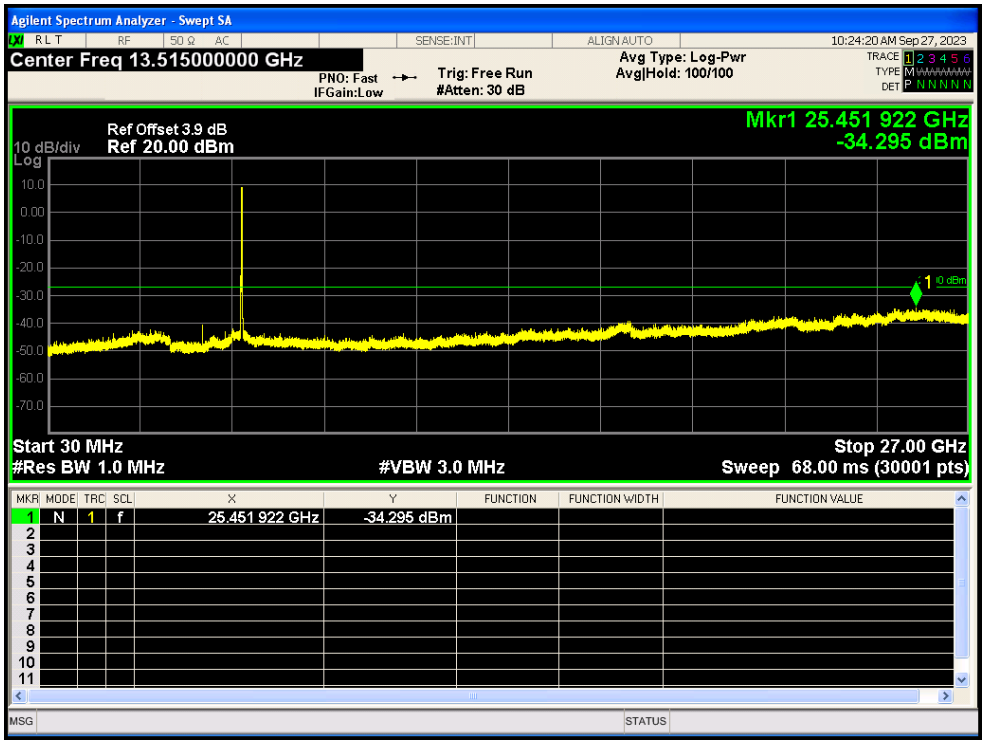
Tx. Spurious NVNT ac20 5500MHz Ant2 Emission



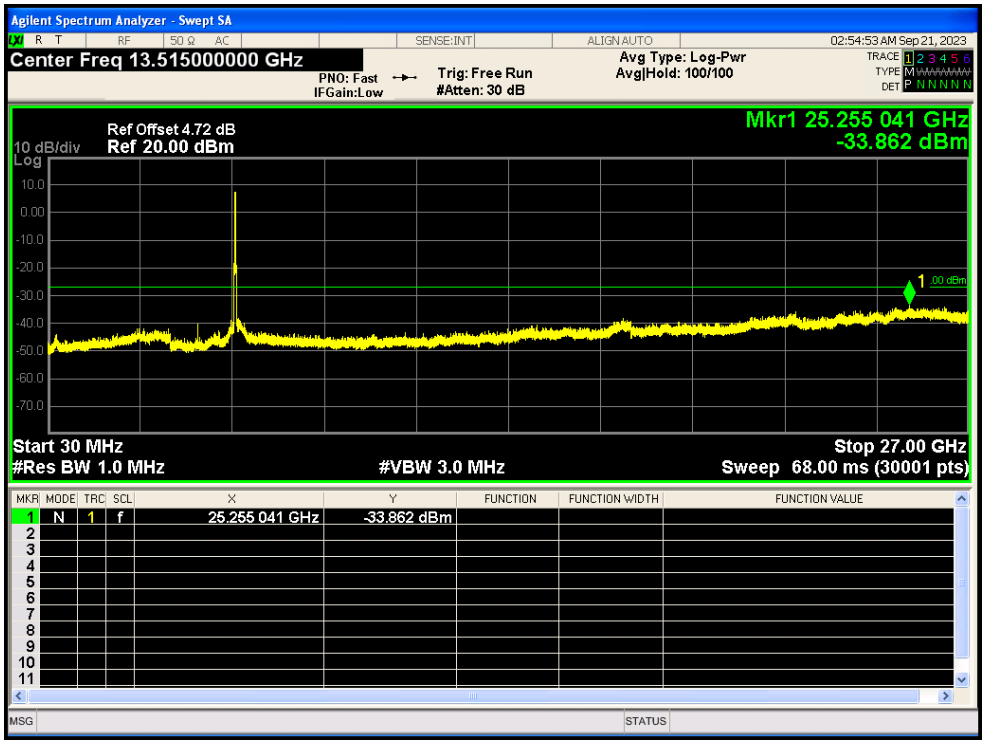
Tx. Spurious NVNT ac20 5600MHz Ant2 Emission



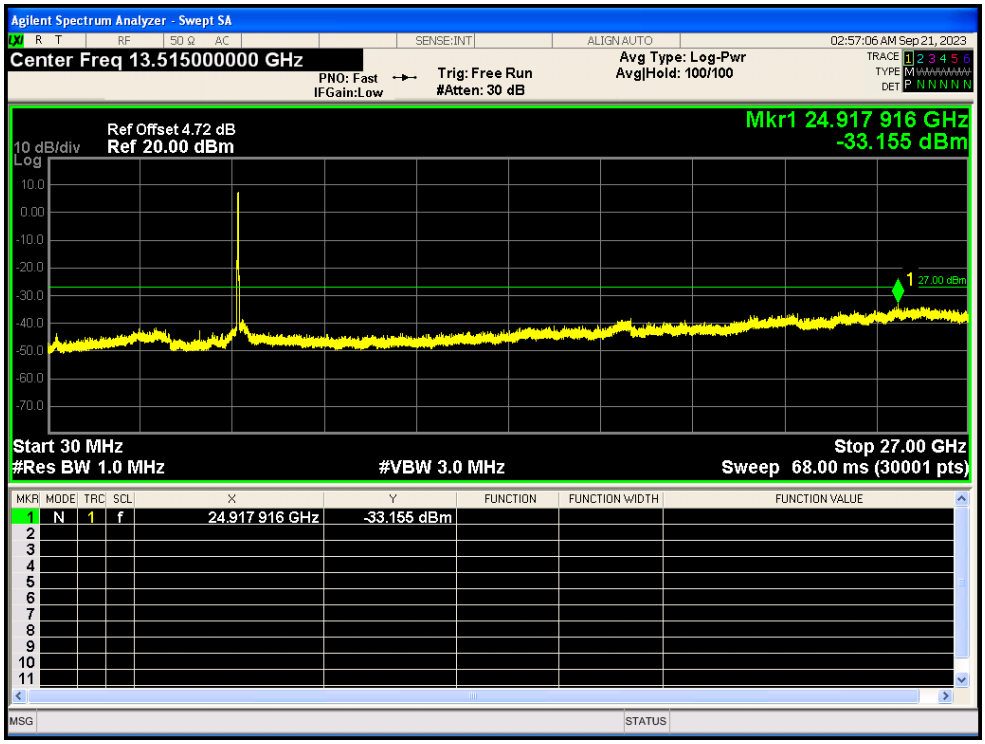
Tx. Spurious NVNT ac20 5700MHz Ant2 Emission



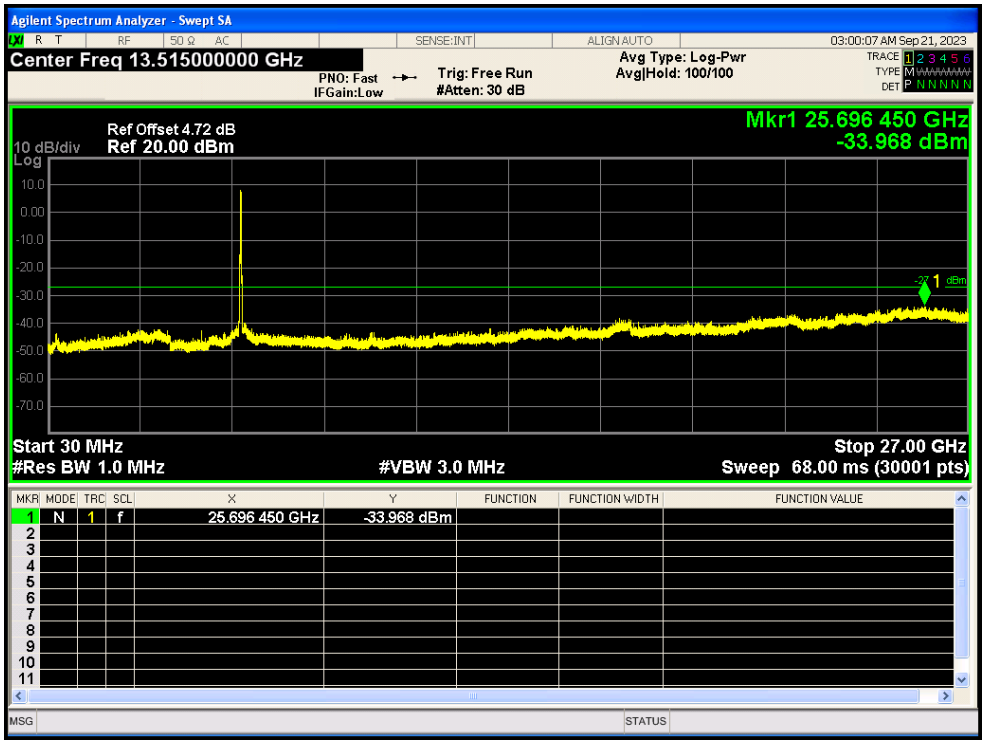
Tx. Spurious NVNT ac40 5510MHz Ant1 Emission



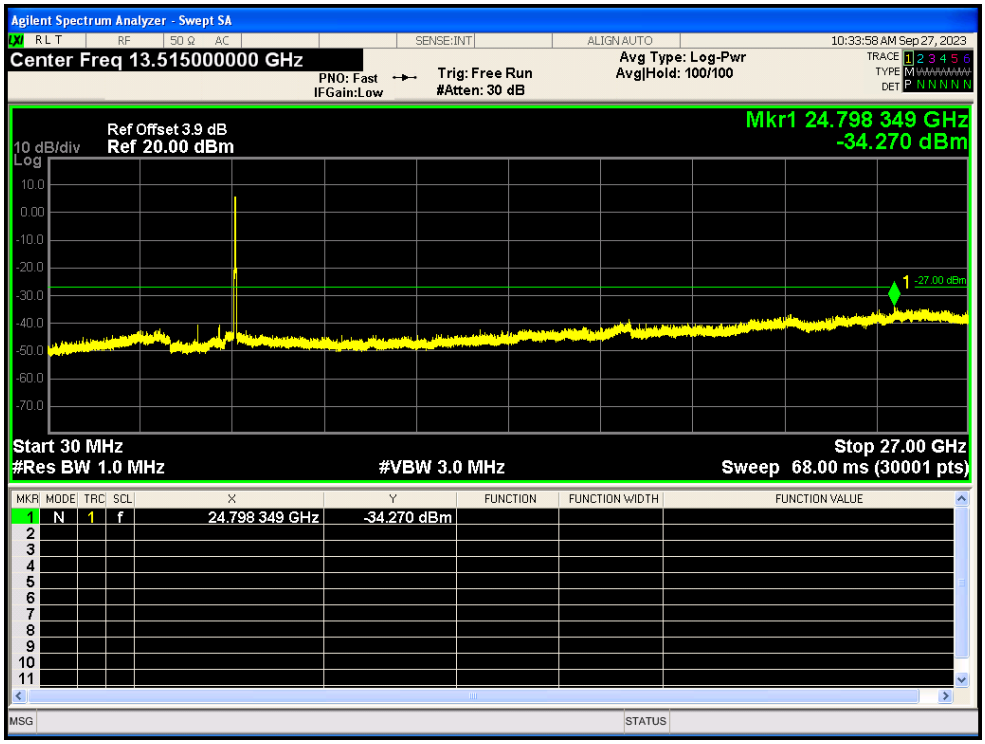
Tx. Spurious NVNT ac40 5590MHz Ant1 Emission



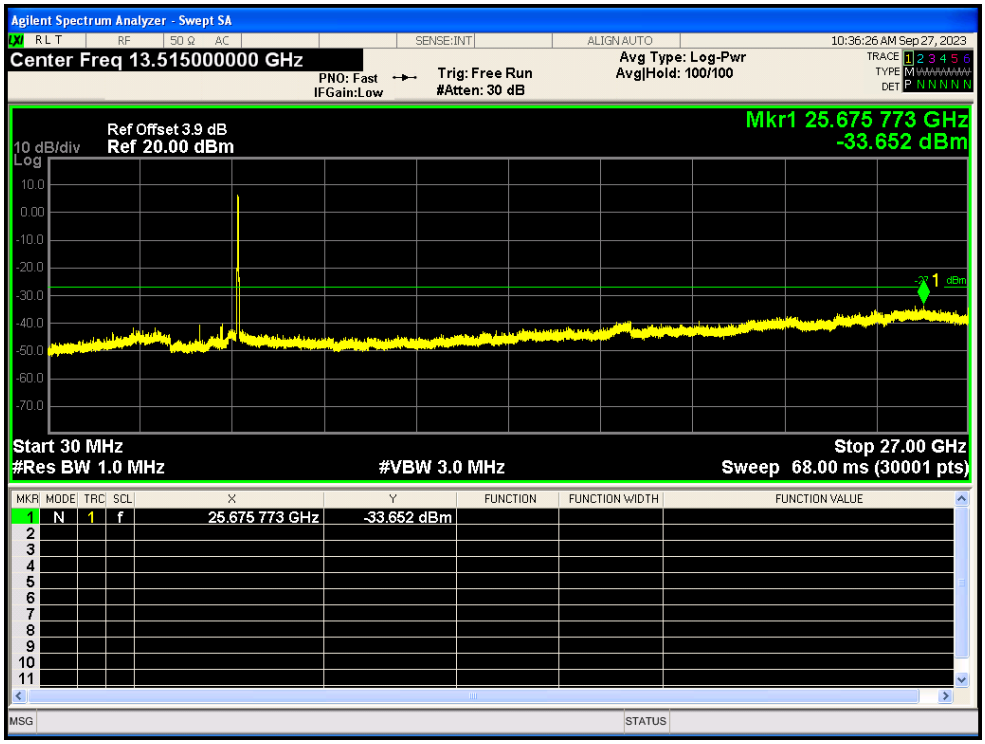
Tx. Spurious NVNT ac40 5670MHz Ant1 Emission



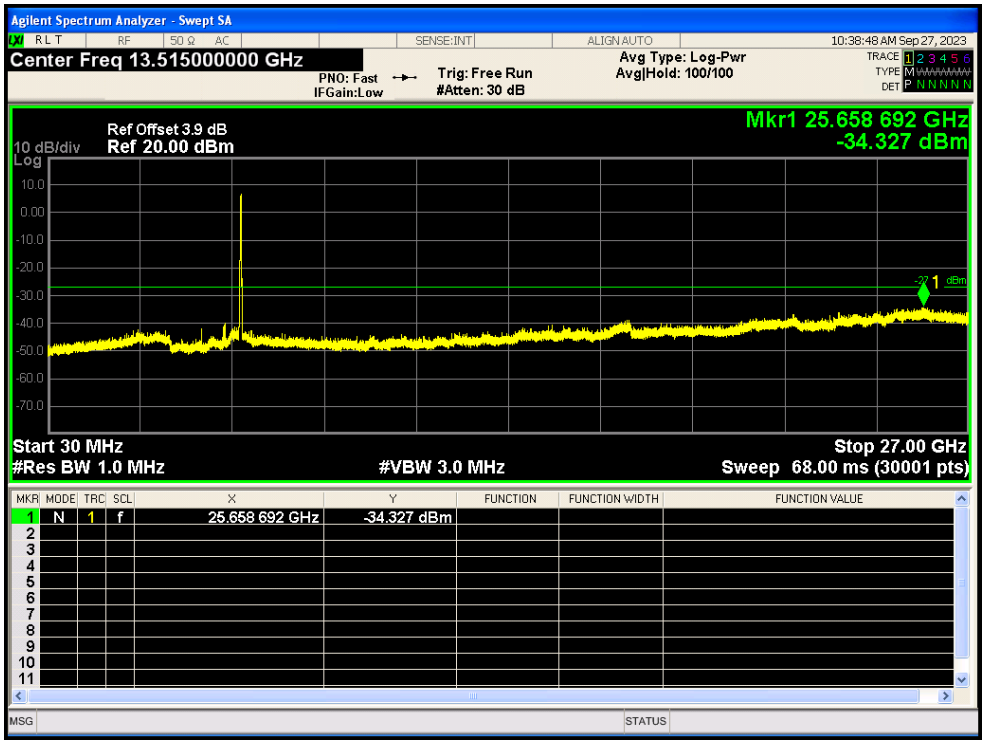
Tx. Spurious NVNT ac40 5510MHz Ant2 Emission



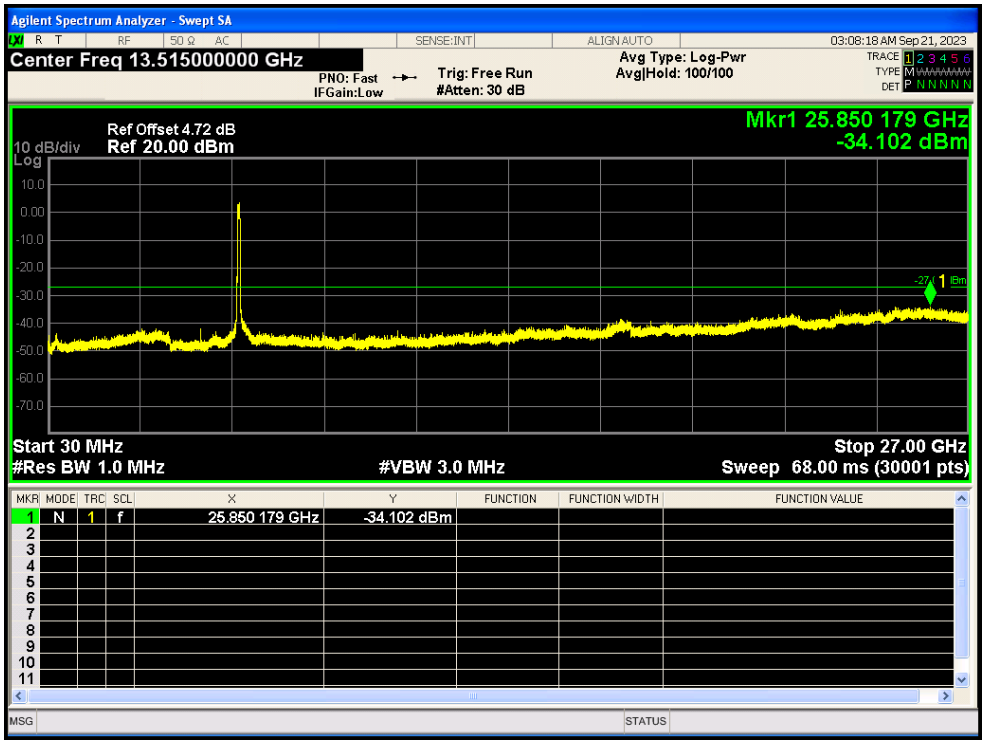
Tx. Spurious NVNT ac40 5590MHz Ant2 Emission



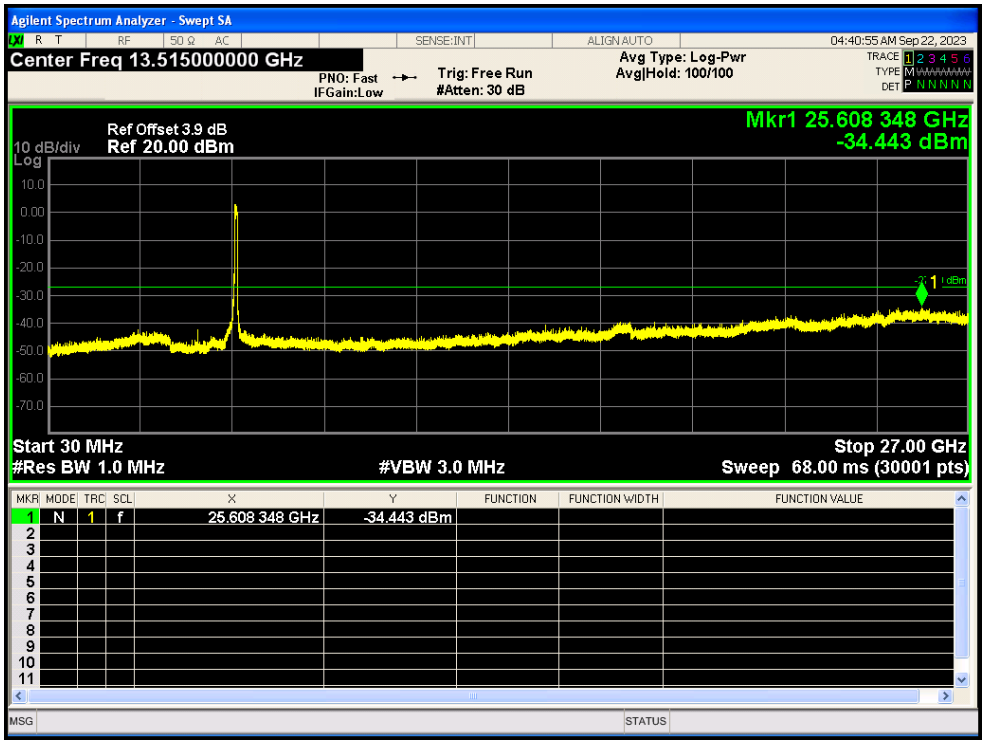
Tx. Spurious NVNT ac40 5670MHz Ant2 Emission



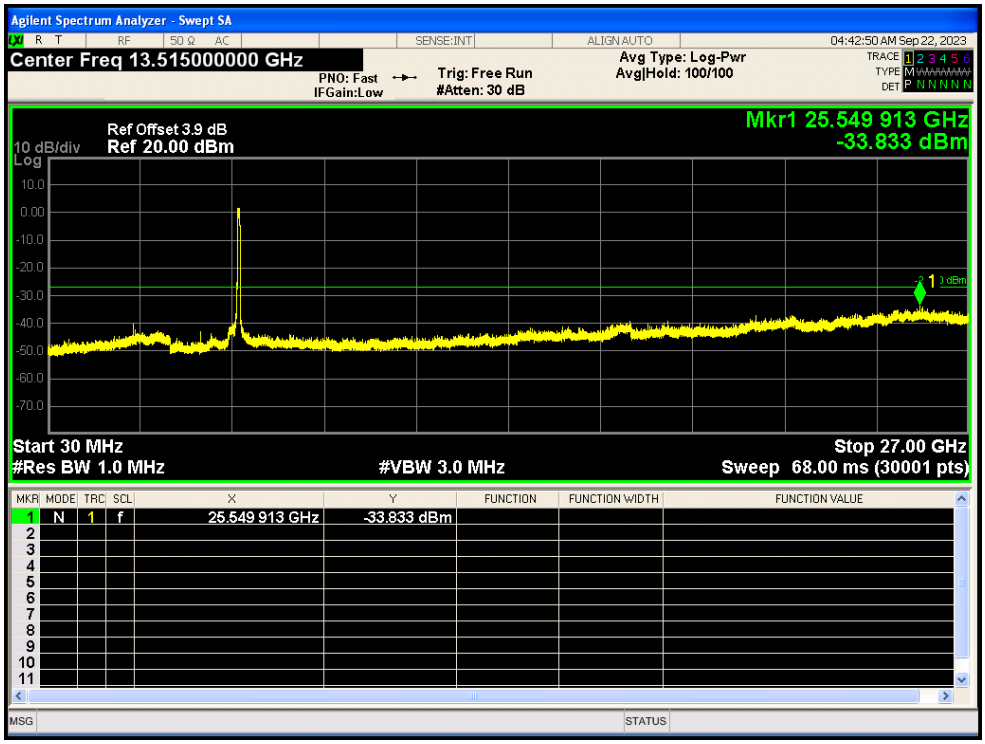
Tx. Spurious NVNT ac80 5610MHz Ant1 Emission



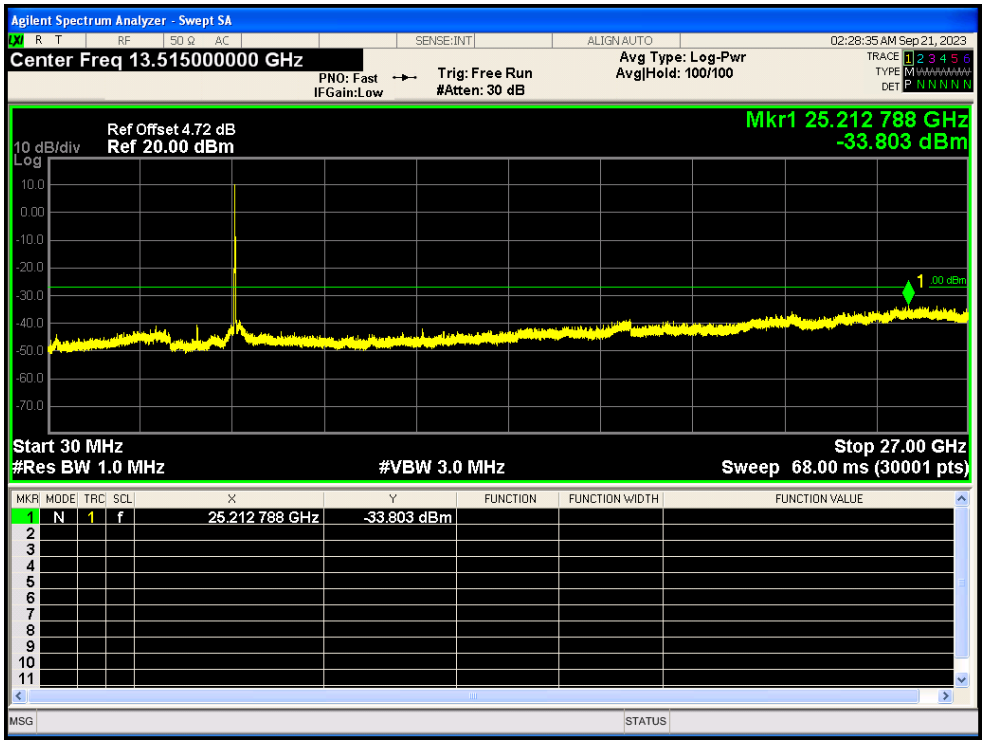
Tx. Spurious NVNT ac80 5530MHz Ant2 Emission



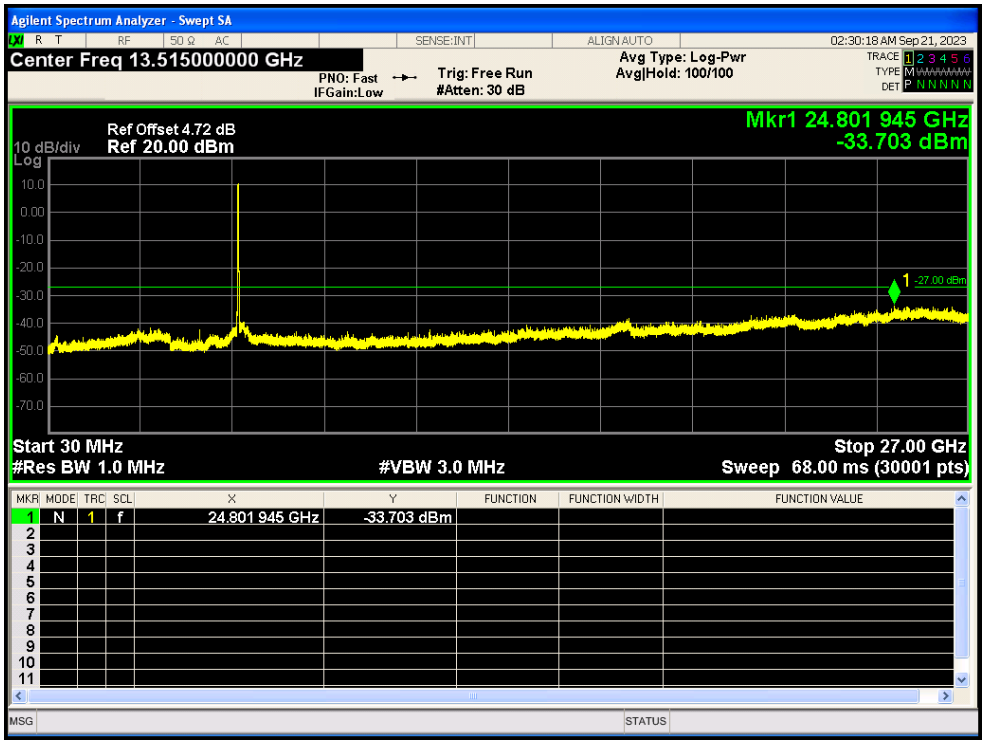
Tx. Spurious NVNT ac80 5610MHz Ant2 Emission



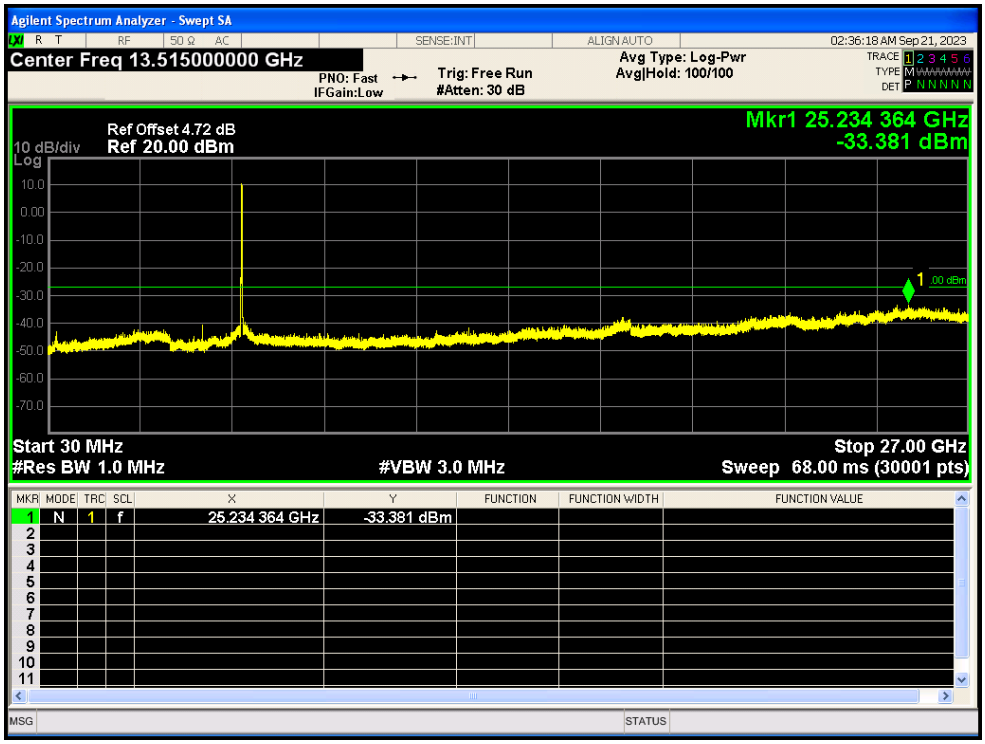
Tx. Spurious NVNT n20 5500MHz Ant1 Emission



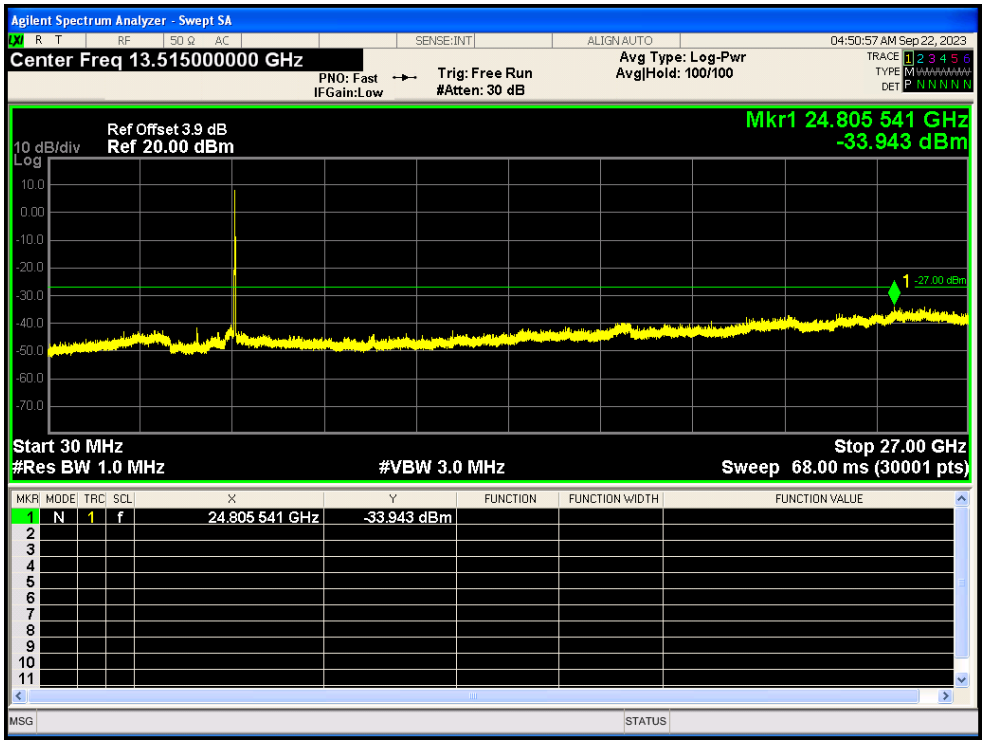
Tx. Spurious NVNT n20 5600MHz Ant1 Emission



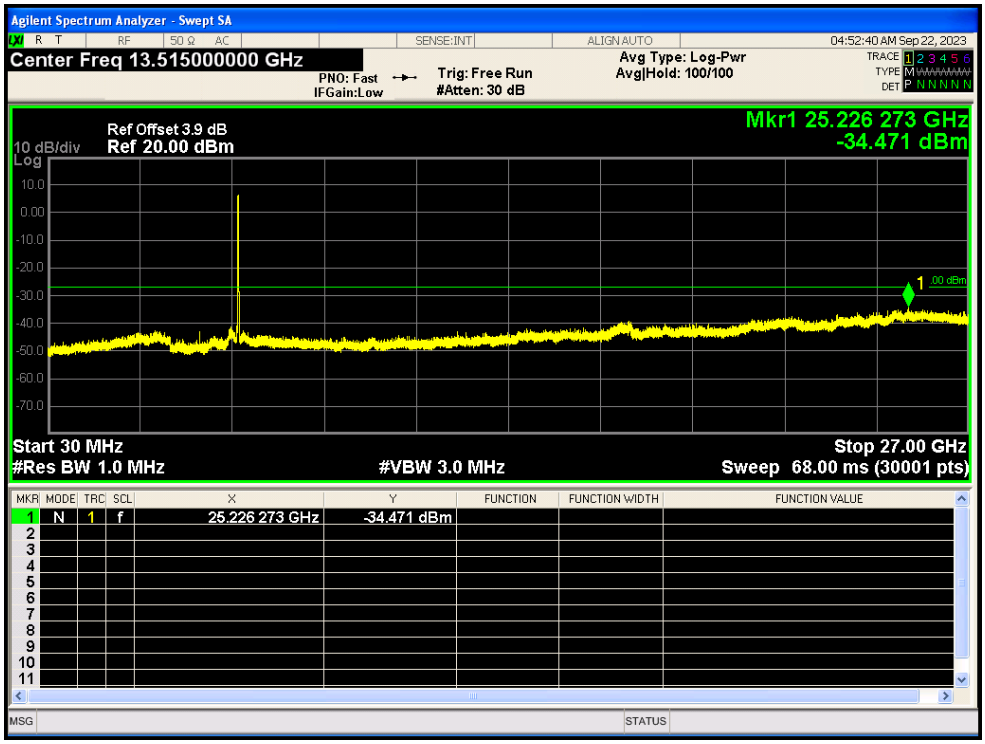
Tx. Spurious NVNT n20 5700MHz Ant1 Emission



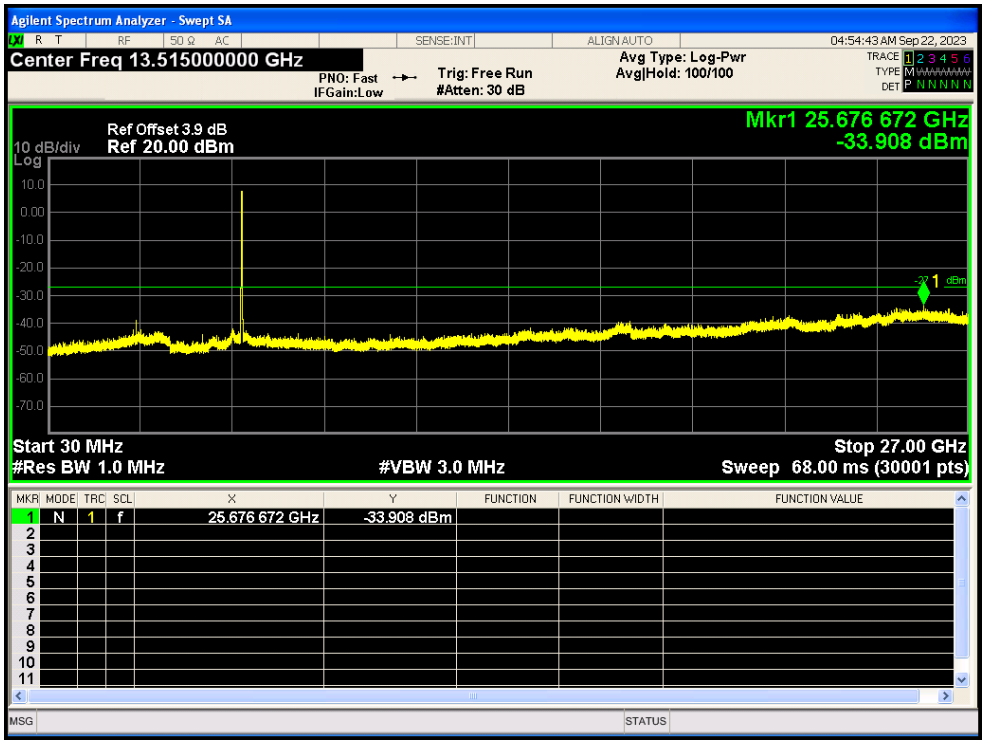
Tx. Spurious NVNT n20 5500MHz Ant2 Emission



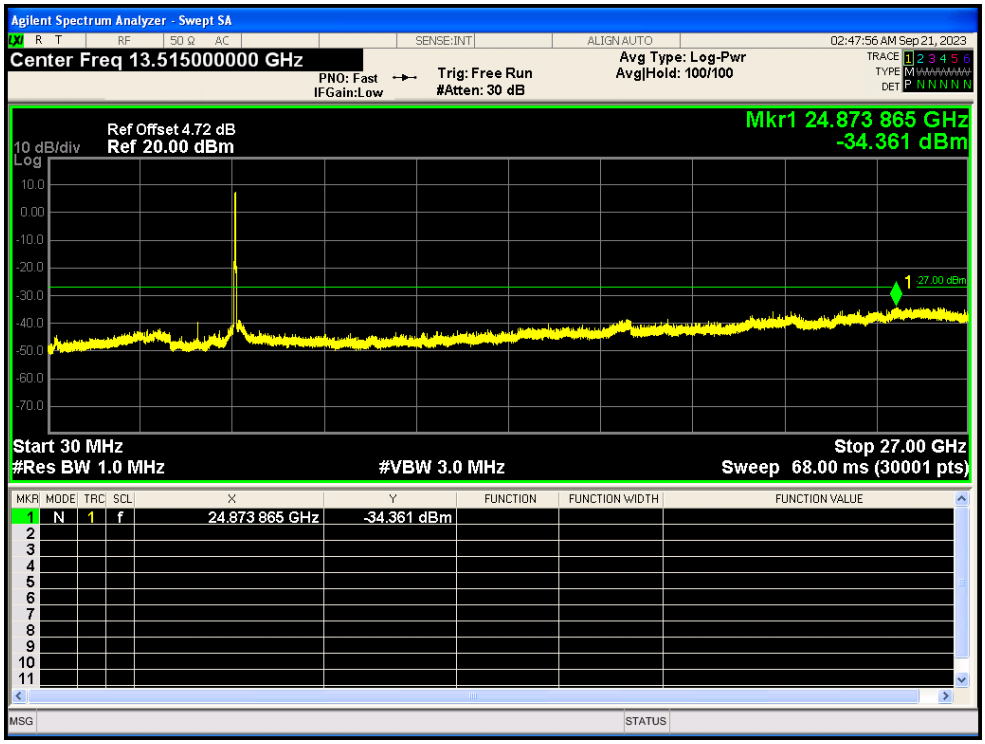
Tx. Spurious NVNT n20 5600MHz Ant2 Emission



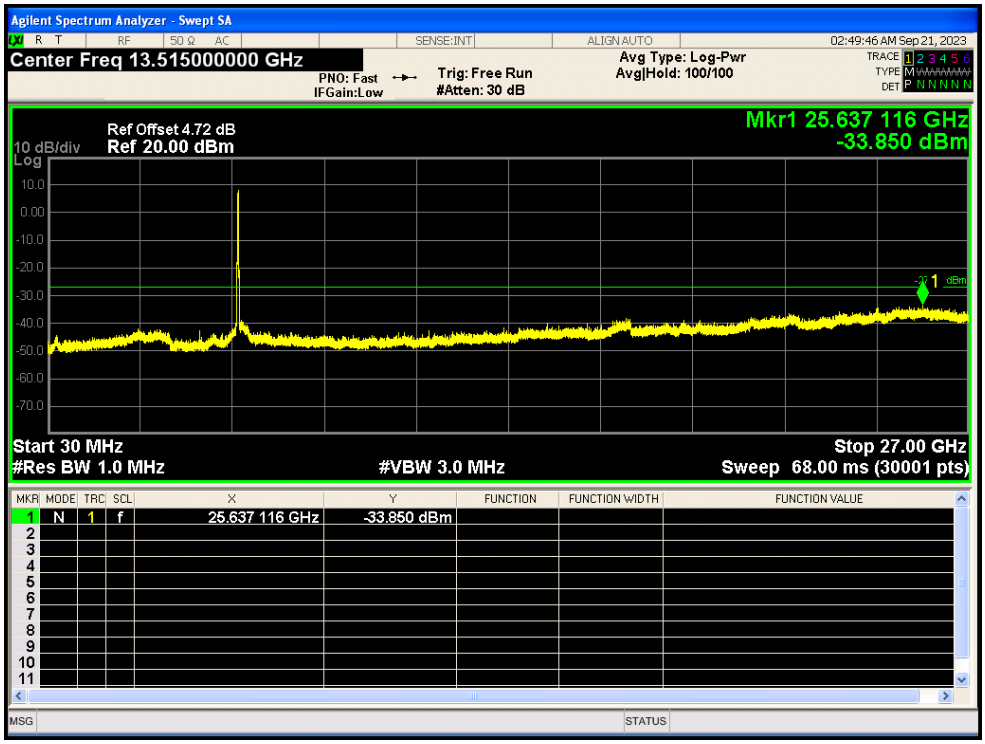
Tx. Spurious NVNT n20 5700MHz Ant2 Emission



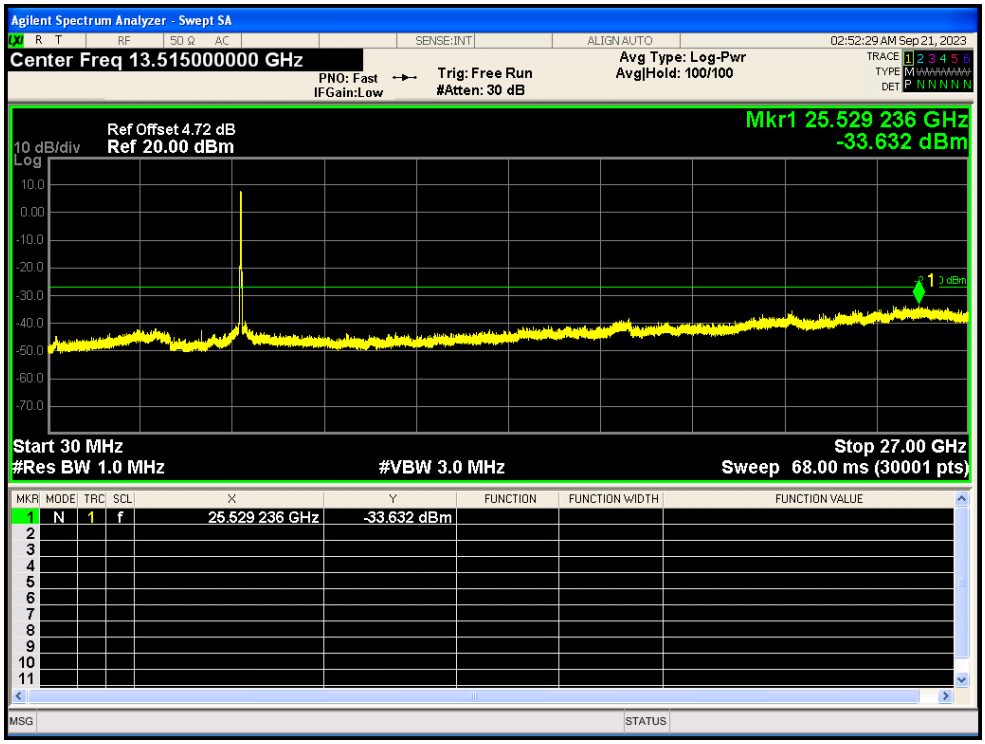
Tx. Spurious NVNT n40 5510MHz Ant1 Emission



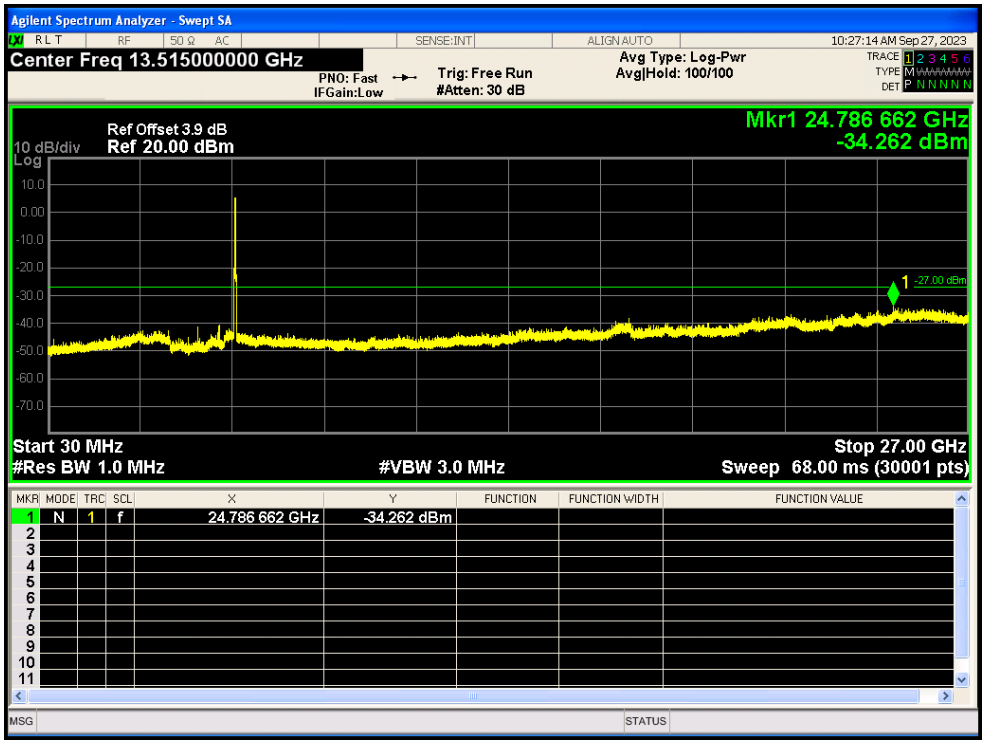
Tx. Spurious NVNT n40 5590MHz Ant1 Emission



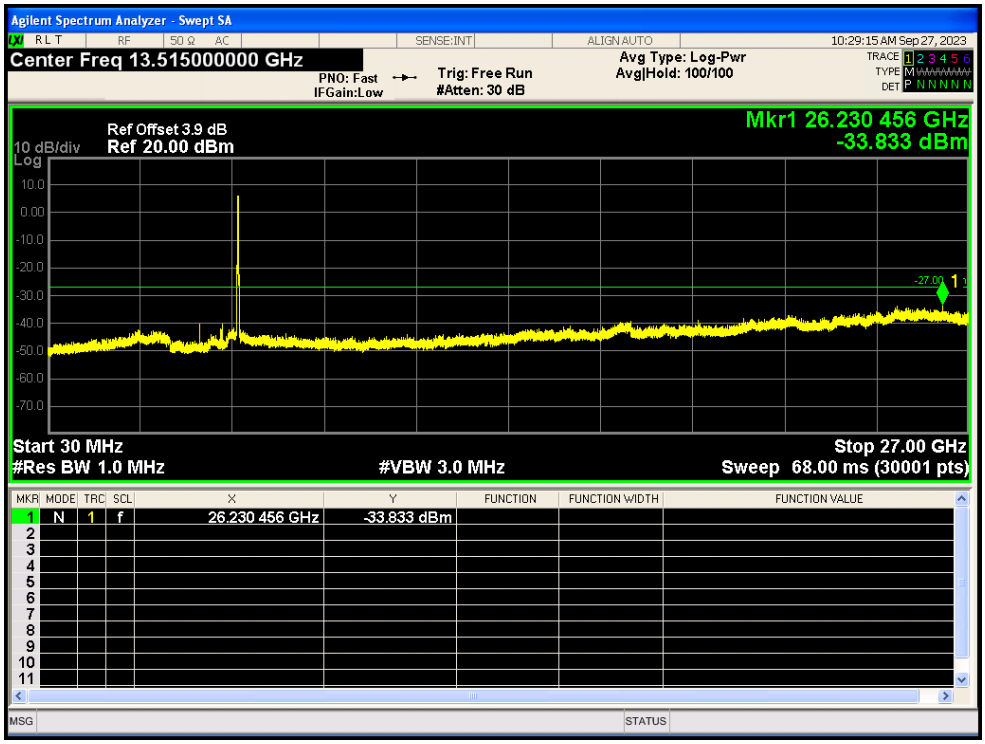
Tx. Spurious NVNT n40 5670MHz Ant1 Emission



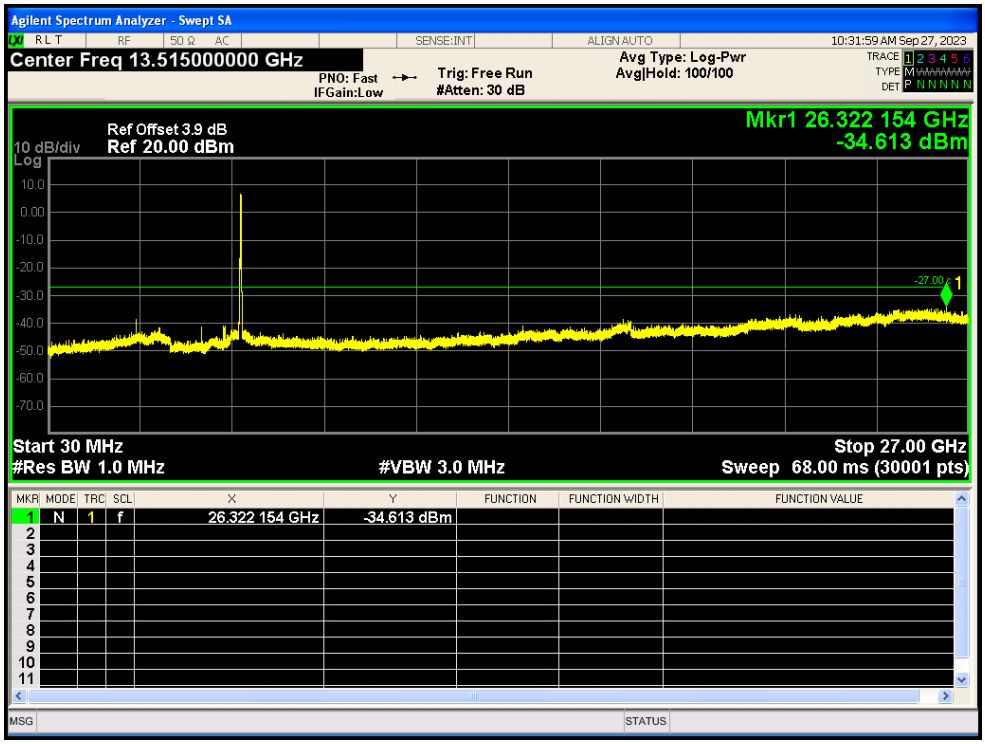
Tx. Spurious NVNT n40 5510MHz Ant2 Emission



Tx. Spurious NVNT n40 5590MHz Ant2 Emission



Tx. Spurious NVNT n40 5670MHz Ant2 Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
10:31:59 AM Sep 27, 2023
Ref Offset 3.9 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 26.322 154 GHz
-34.613 dBm
-27.00
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 68.00 ms (30001 pts)
1 N 1 f 26.322 154 GHz -34.613 dBm

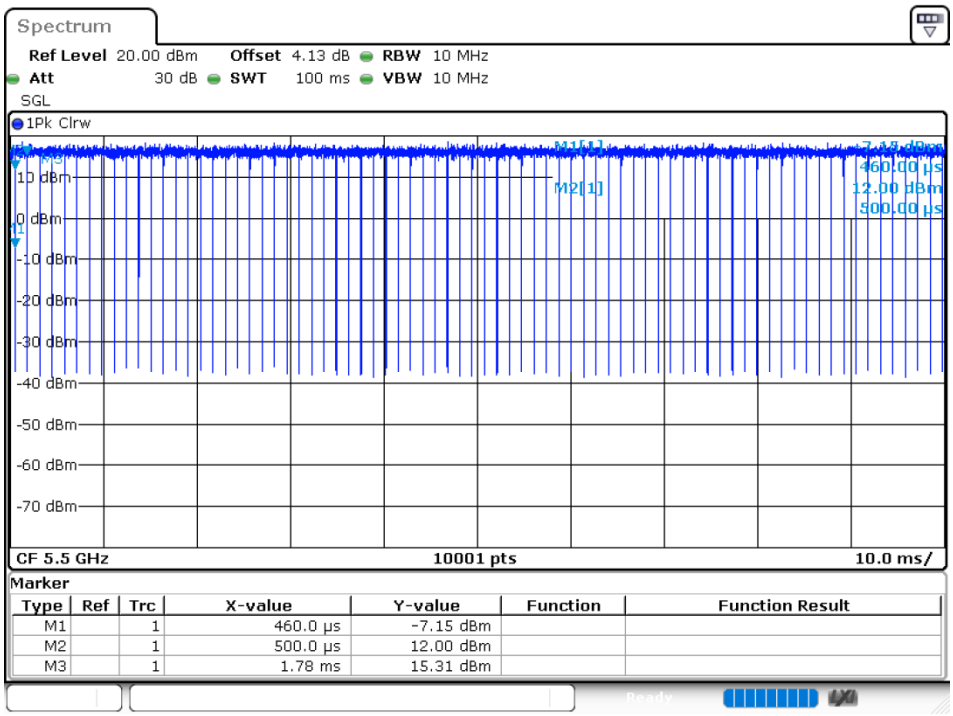
5.6G WIFI MIMO

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5500	Ant1	97.85	0.09	0.78
NVNT	ac20	5600	Ant1	97.61	0.11	0.78
NVNT	ac20	5700	Ant1	97.66	0.1	0.78
NVNT	ac40	5510	Ant1	95.29	0.21	1.56
NVNT	ac40	5590	Ant1	95.42	0.2	1.56
NVNT	ac40	5670	Ant1	95.27	0.21	1.56
NVNT	ac80	5530	Ant1	91.64	0.38	3.12
NVNT	ac80	5610	Ant1	91.91	0.37	3.12
NVNT	n20	5500	Ant1	97.64	0.1	0.78
NVNT	n20	5600	Ant1	97.64	0.1	0.79
NVNT	n20	5700	Ant1	97.68	0.1	0.78
NVNT	n40	5510	Ant1	95.35	0.21	1.56
NVNT	n40	5590	Ant1	95.32	0.21	1.56
NVNT	n40	5670	Ant1	95.33	0.21	1.59

Test Graphs

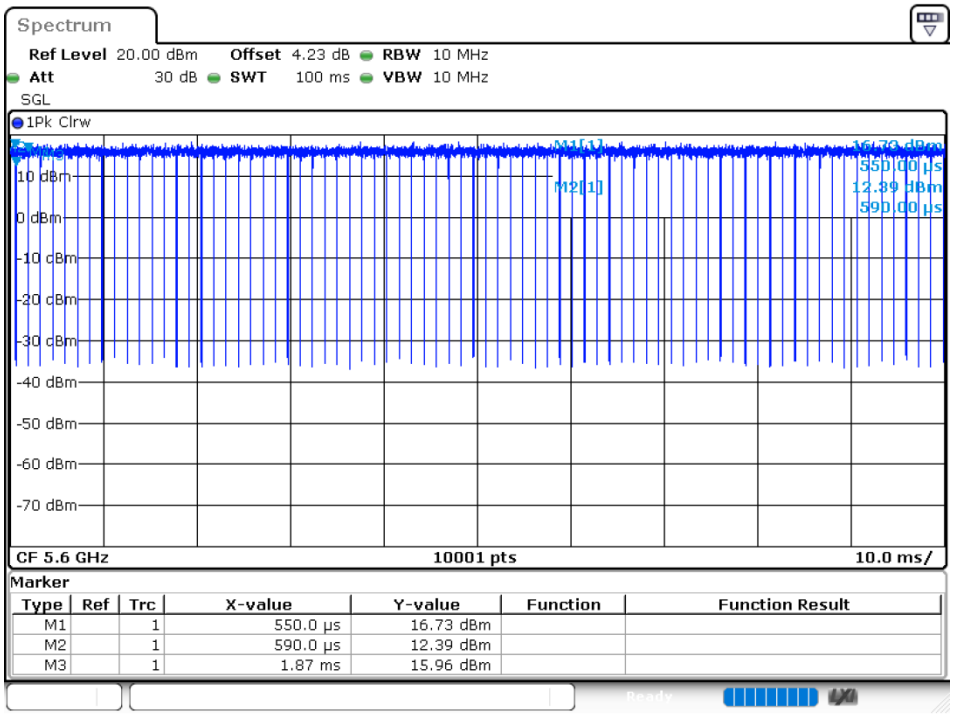
Duty Cycle NVNT ac20 5500MHz Sum



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	460.0 µs	-7.15 dBm		
M2		1	500.0 µs	12.00 dBm		
M3		1	1.78 ms	15.31 dBm		

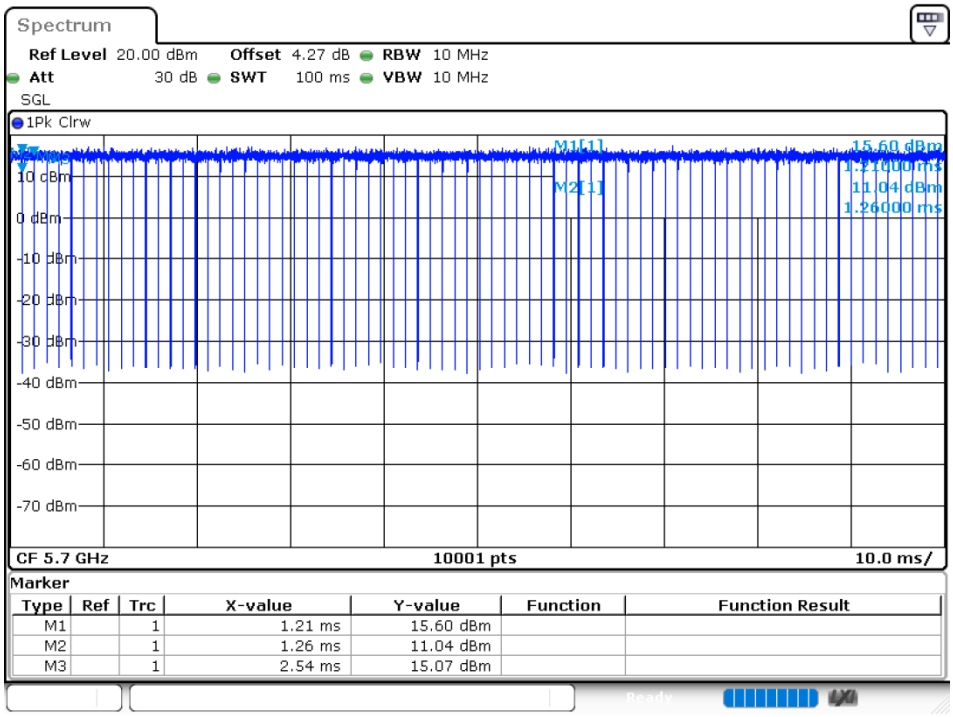
Duty Cycle NVNT ac20 5600MHz Sum



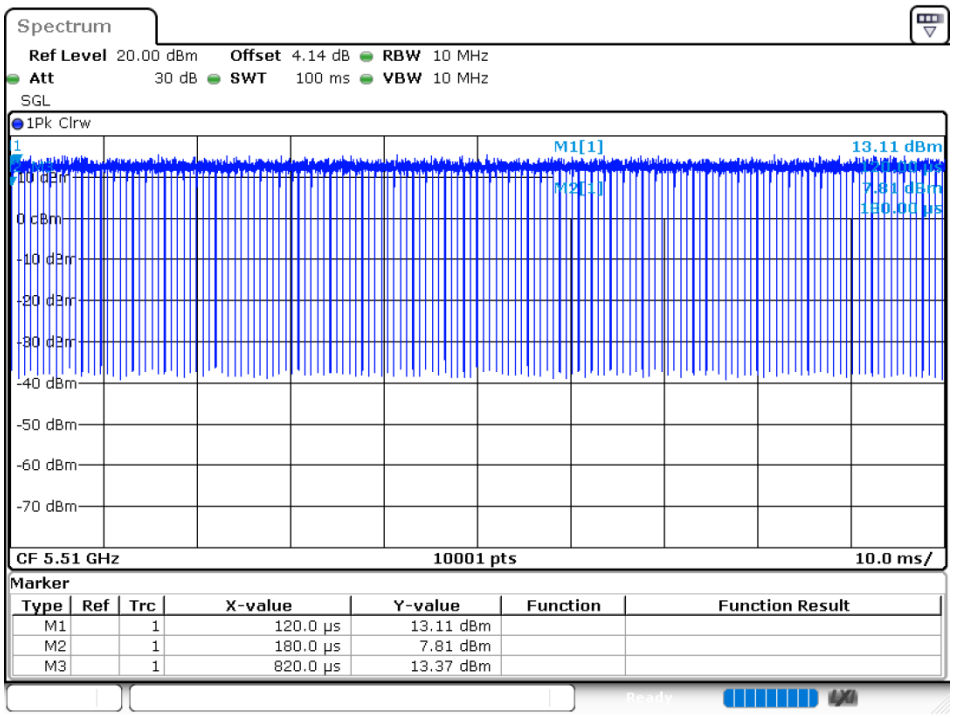
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	550.0 µs	16.73 dBm		
M2		1	590.0 µs	12.39 dBm		
M3		1	1.87 ms	15.96 dBm		

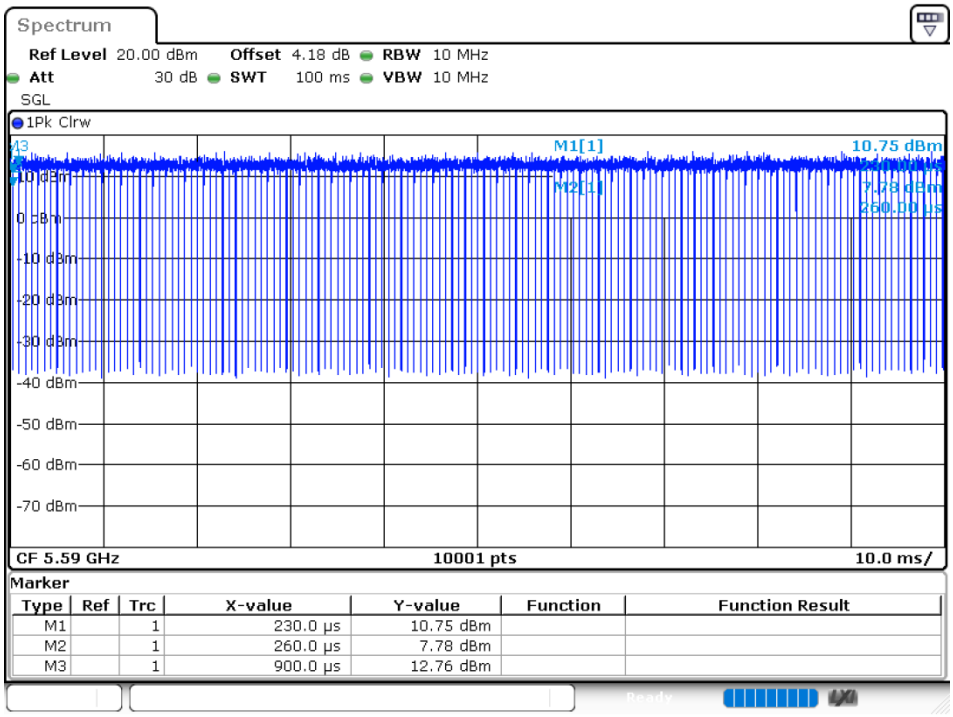
Duty Cycle NVNT ac20 5700MHz Sum



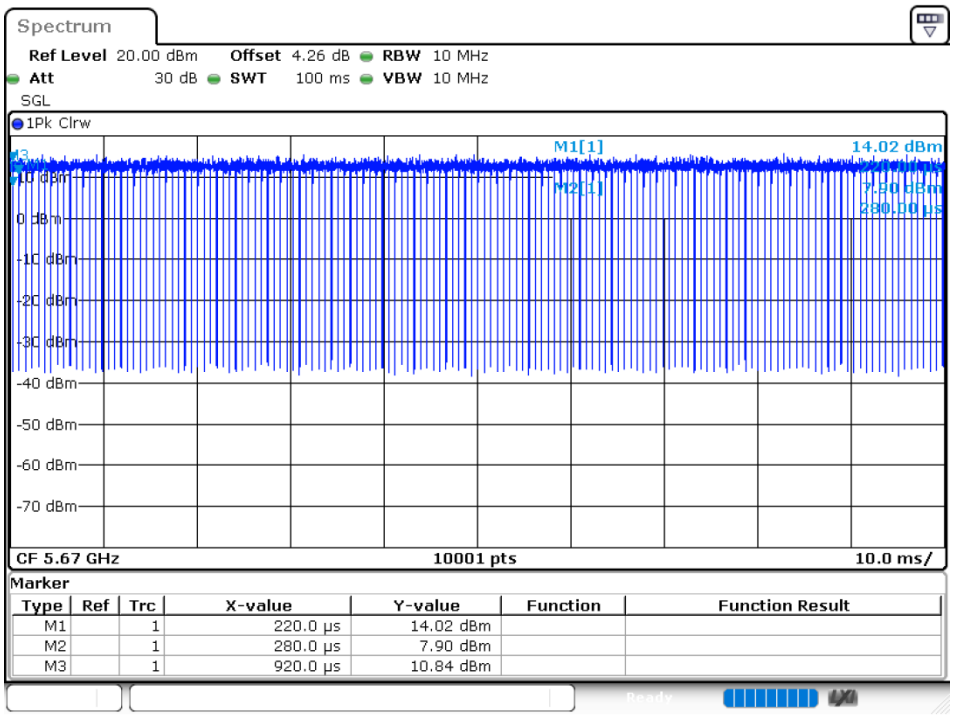
Duty Cycle NVNT ac40 5510MHz Sum



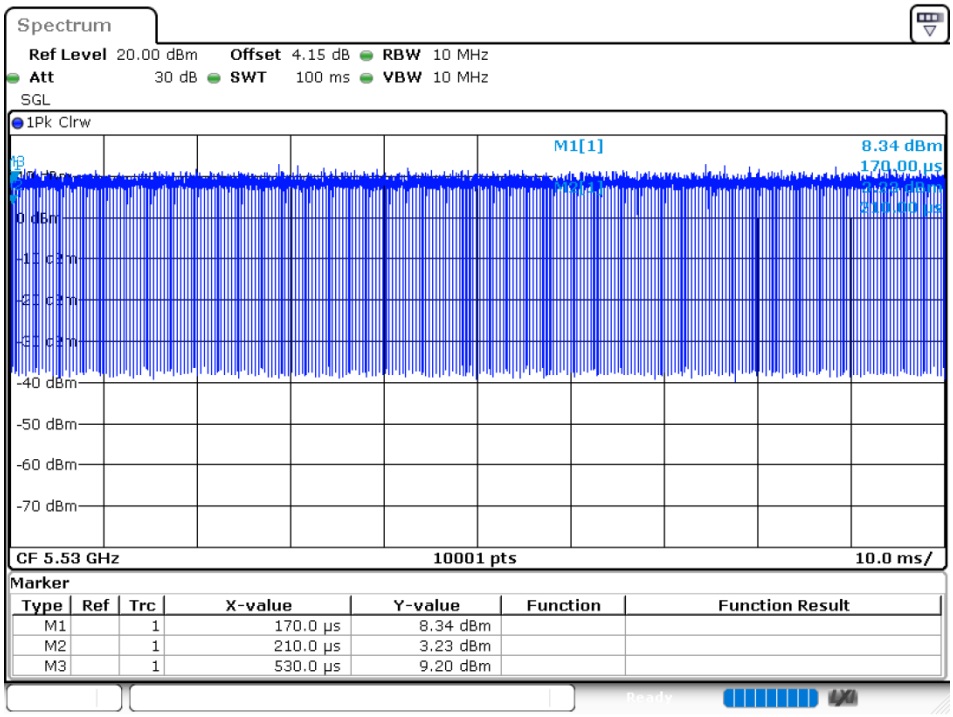
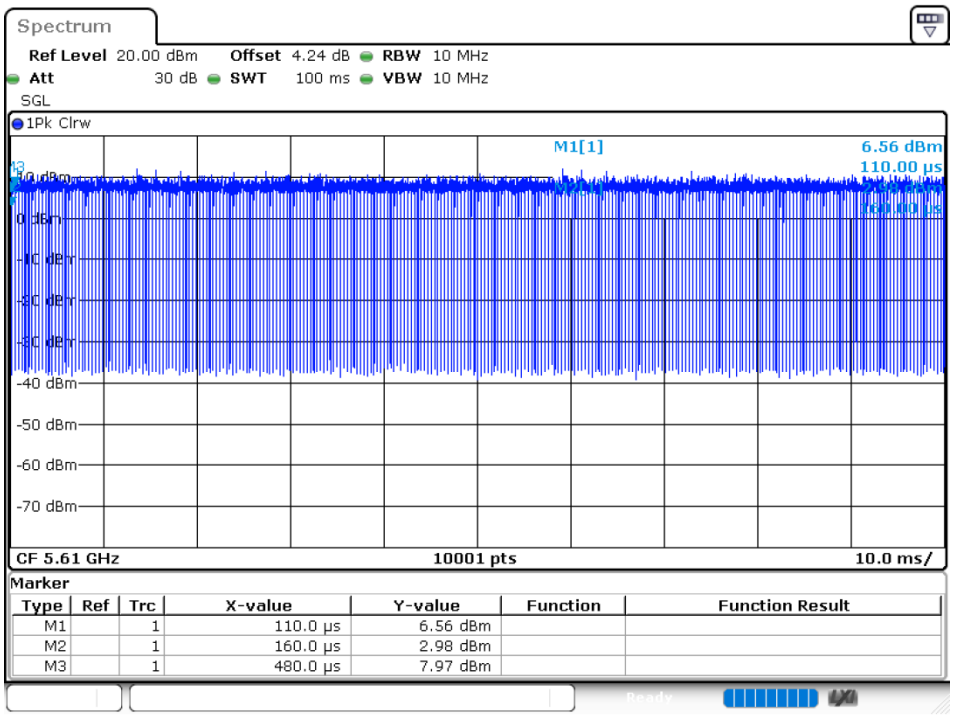
Duty Cycle NVNT ac40 5590MHz Sum



Duty Cycle NVNT ac40 5670MHz Sum



Duty Cycle NVNT ac80 5530MHz Sum



Duty Cycle NVNT ac80 5610MHz Sum