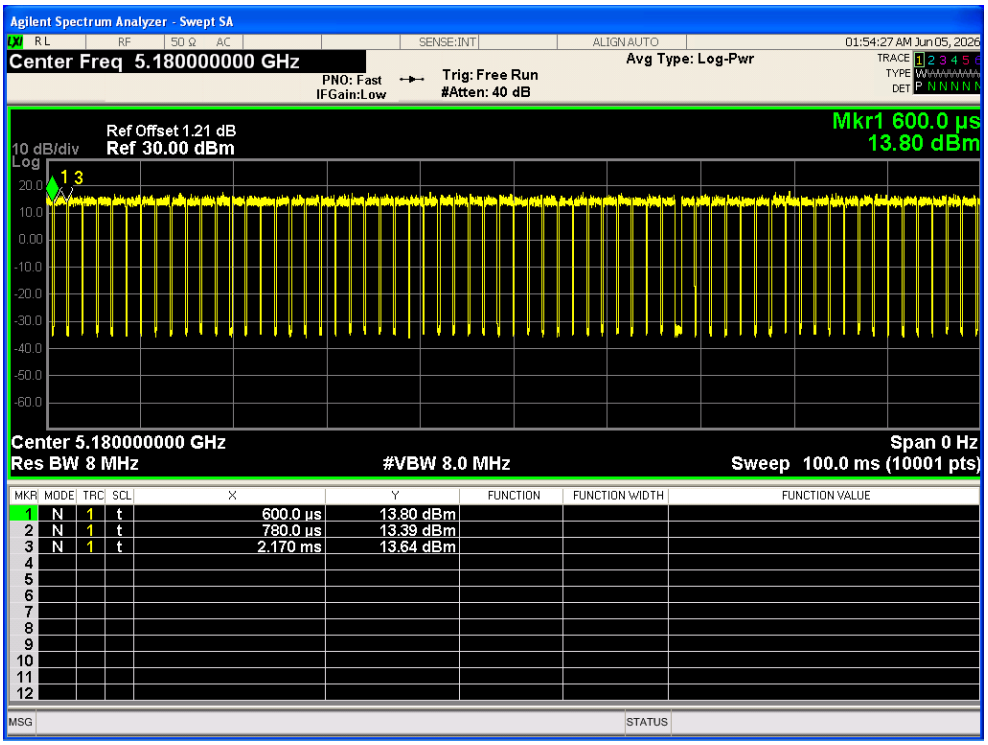
WIFI 5.2G

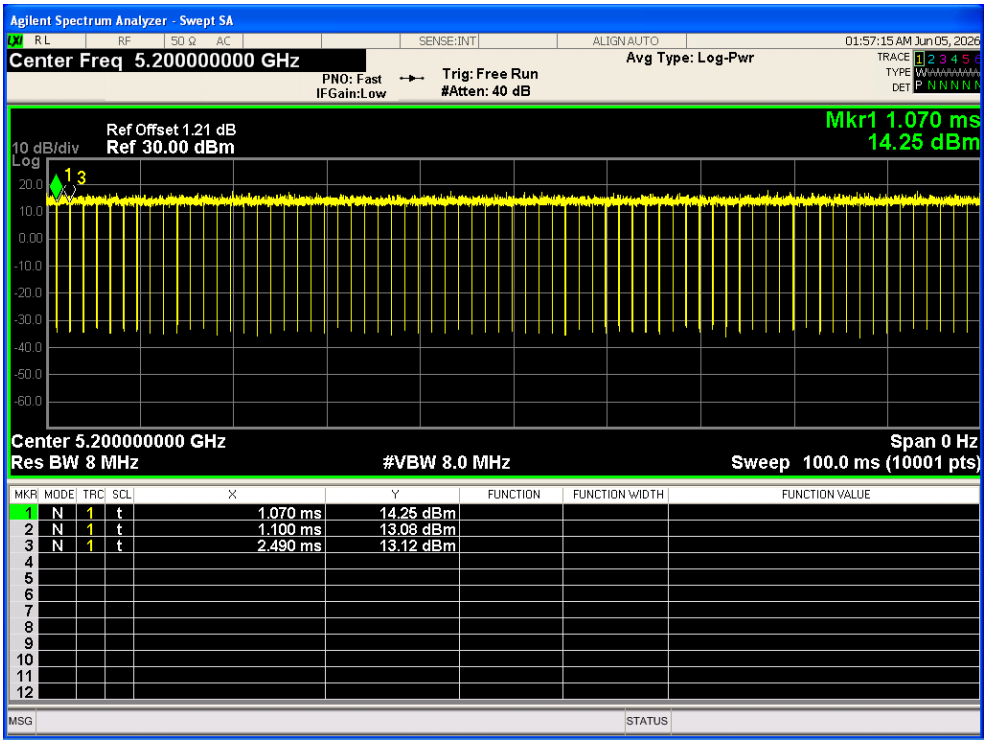
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	88.01	0.55	0.72
NVNT	a	5200	Ant1	97.91	0.09	0.72
NVNT	a	5240	Ant1	88.72	0.52	0.72
NVNT	ac20	5180	Ant1	86.97	0.61	0.85
NVNT	ac20	5200	Ant1	86.57	0.63	0.85
NVNT	ac20	5240	Ant1	86.75	0.62	0.85
NVNT	ac40	5190	Ant1	76.43	1.17	1.69
NVNT	ac40	5230	Ant1	76.57	1.16	1.67
NVNT	ac80	5210	Ant1	57.72	2.39	3.33
NVNT	n20	5180	Ant1	86.36	0.64	0.85
NVNT	n20	5200	Ant1	83.22	0.8	0.85
NVNT	n20	5240	Ant1	87.05	0.6	0.85
NVNT	n40	5190	Ant1	72.75	1.38	1.72
NVNT	n40	5230	Ant1	76.38	1.17	1.69

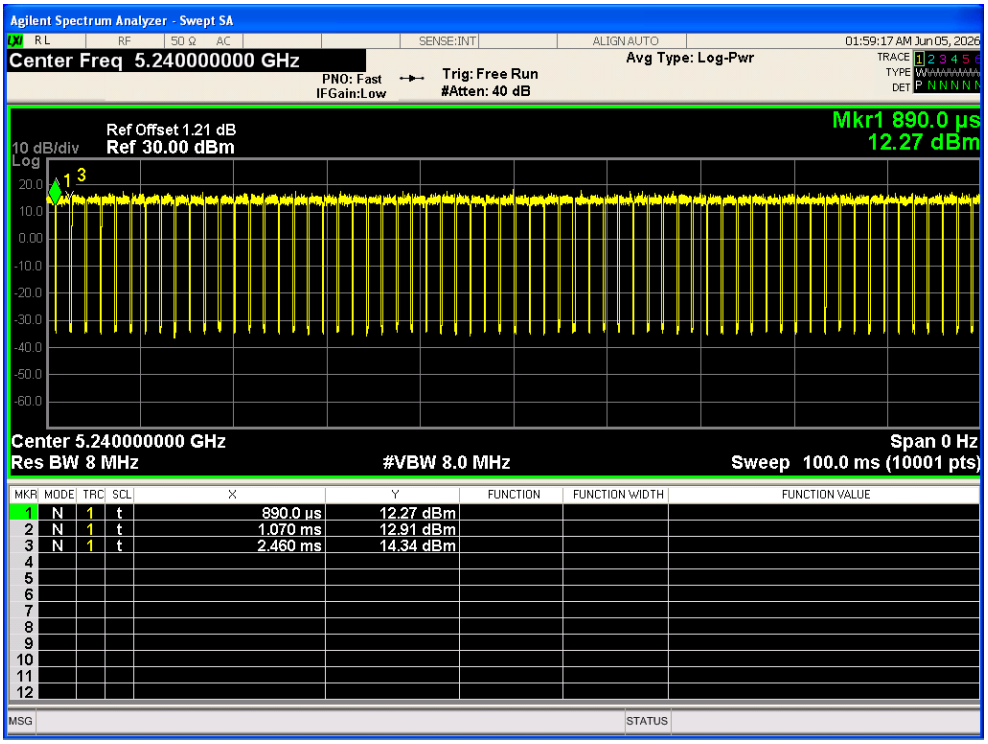
Duty Cycle NVNT a 5180MHz Ant1



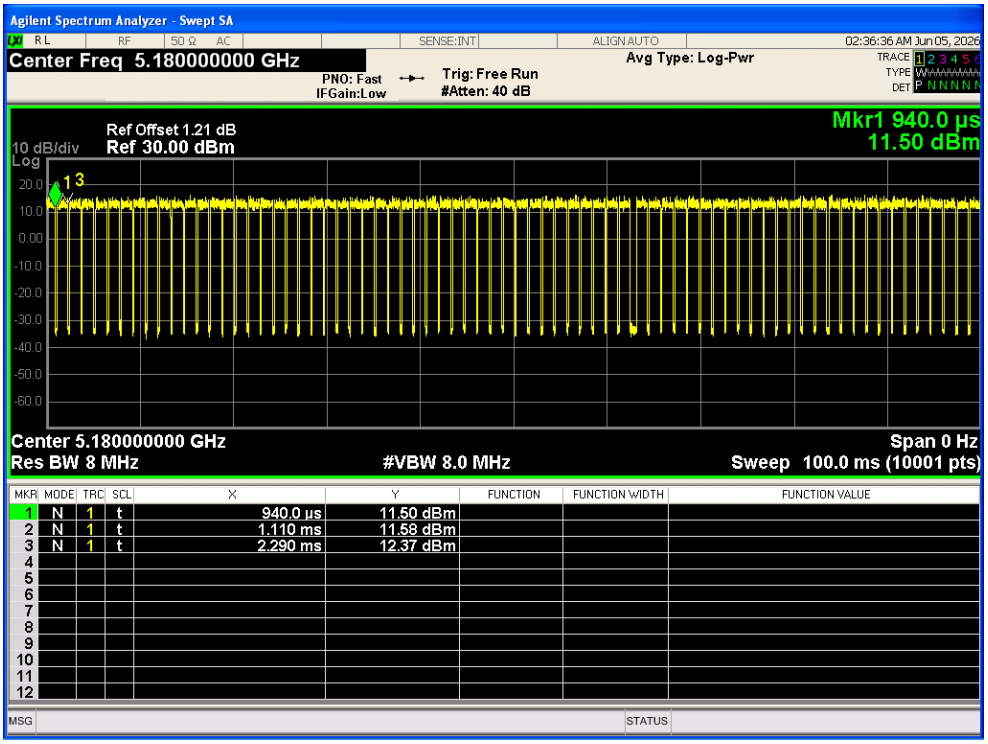
Duty Cycle NVNT a 5200MHz Ant1



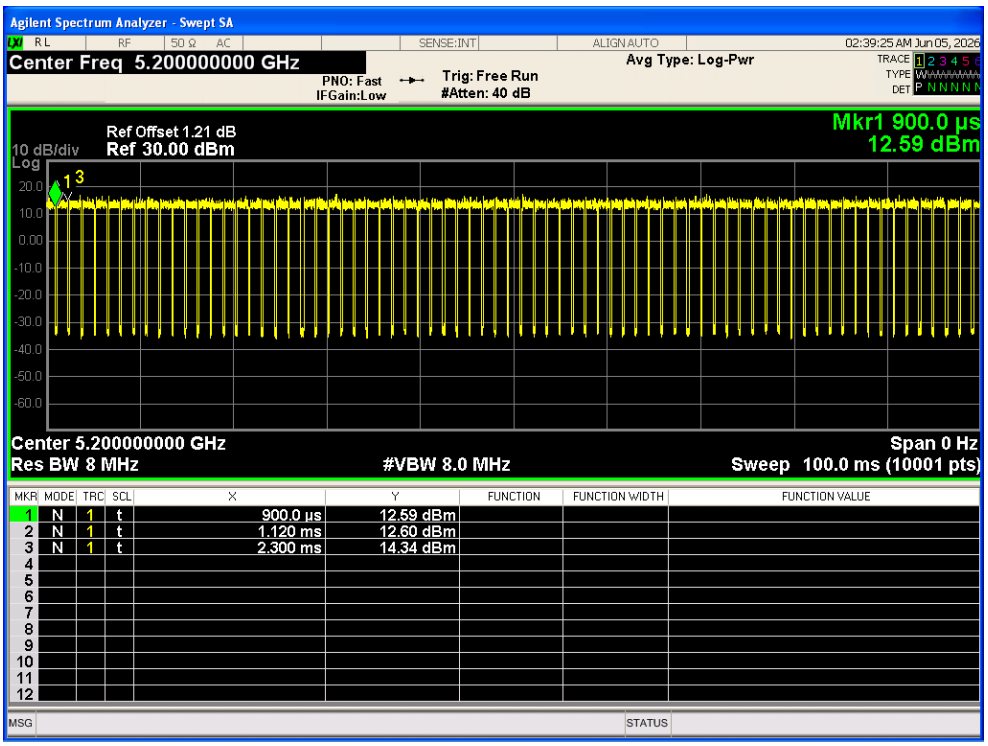
Duty Cycle NVNT a 5240MHz Ant1



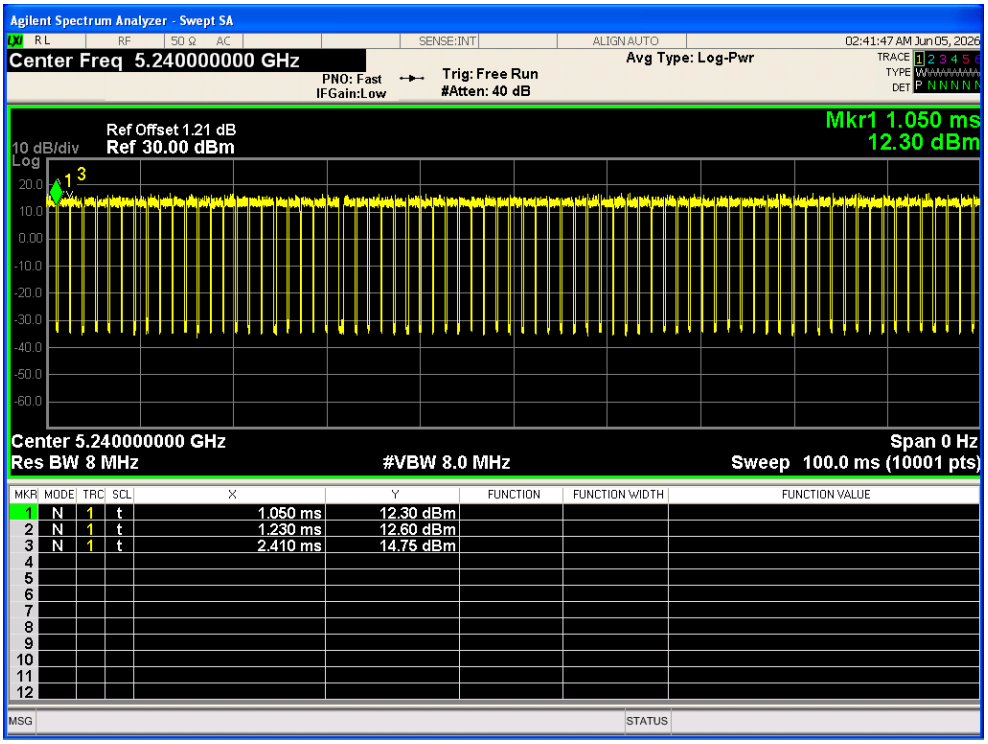
Duty Cycle NVNT ac20 5180MHz Ant1



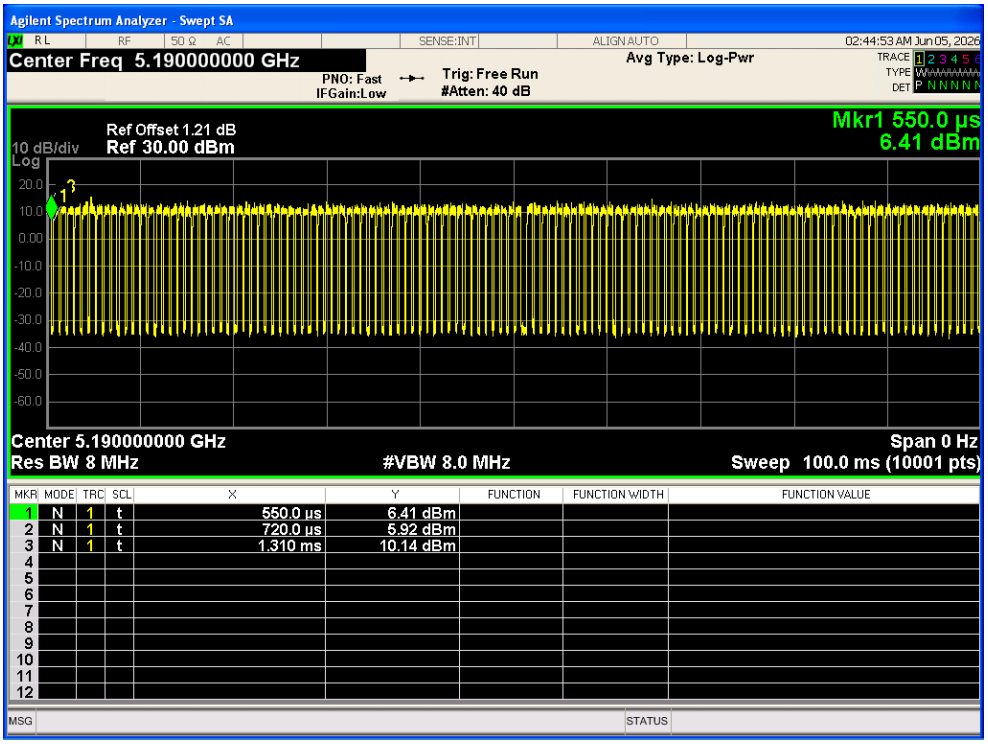
Duty Cycle NVNT ac20 5200MHz Ant1



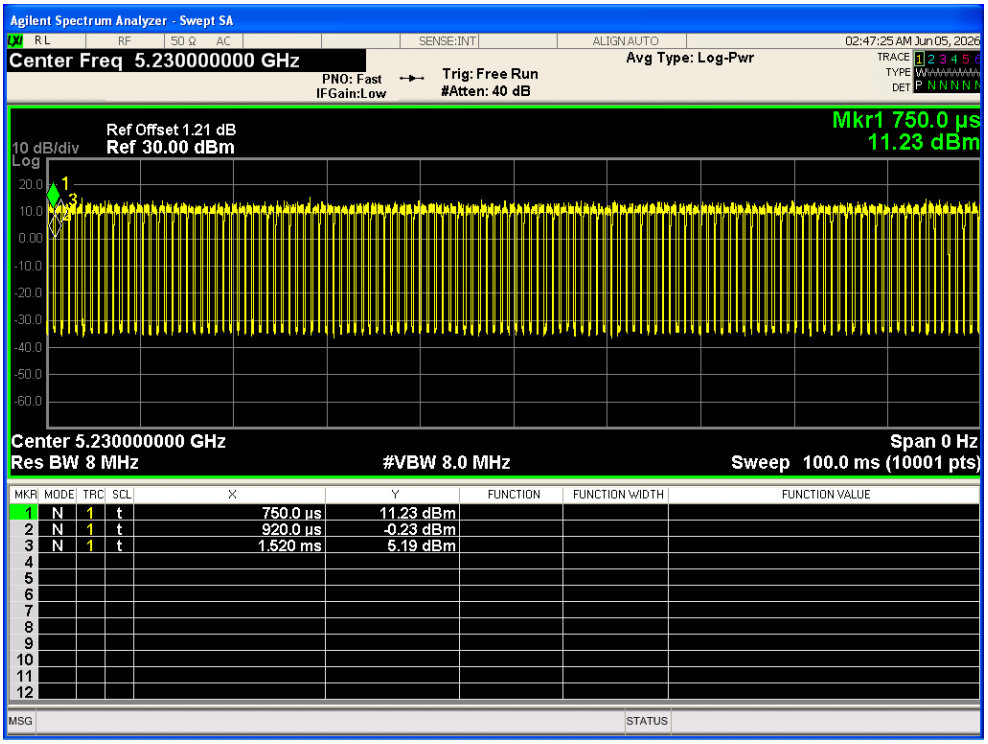
Duty Cycle NVNT ac20 5240MHz Ant1



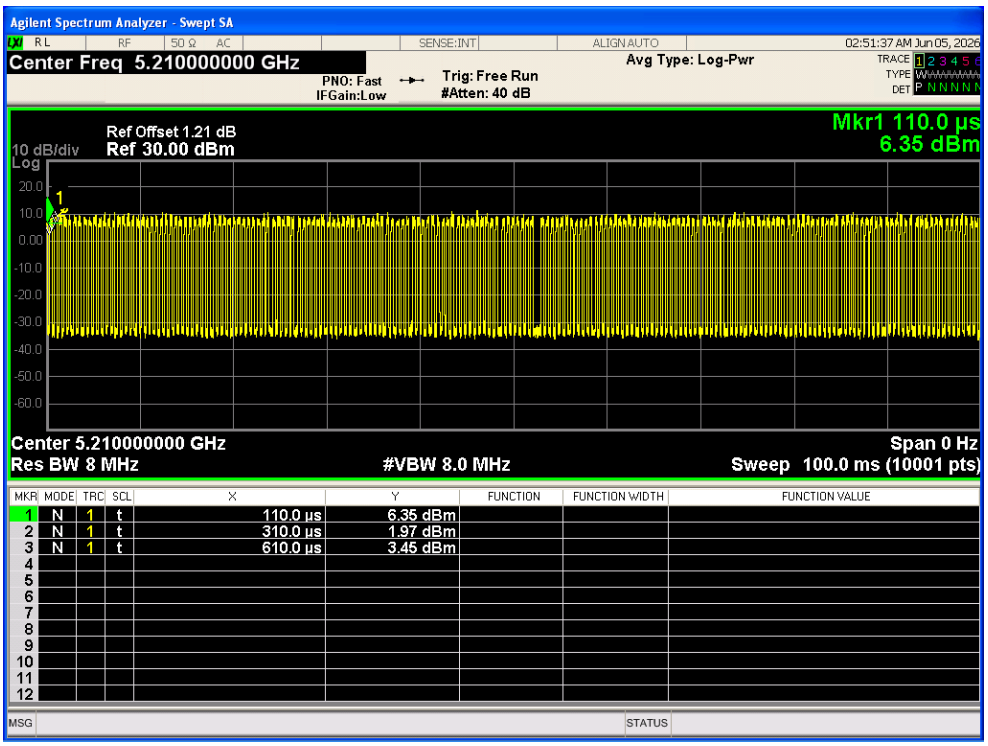
Duty Cycle NVNT ac40 5190MHz Ant1



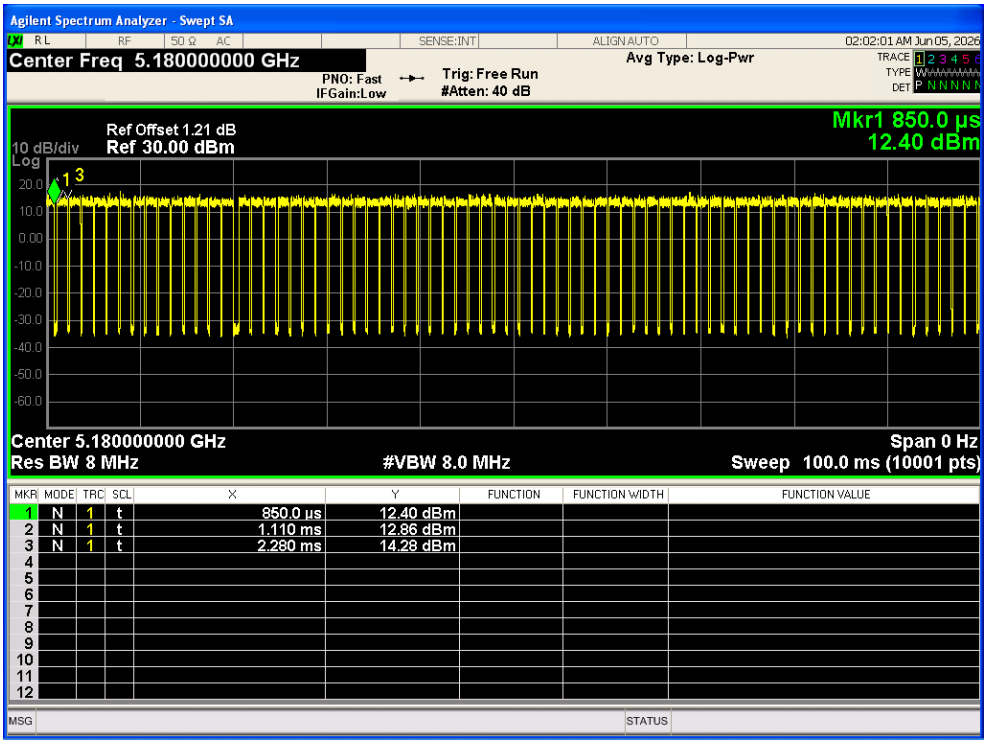
Duty Cycle NVNT ac40 5230MHz Ant1



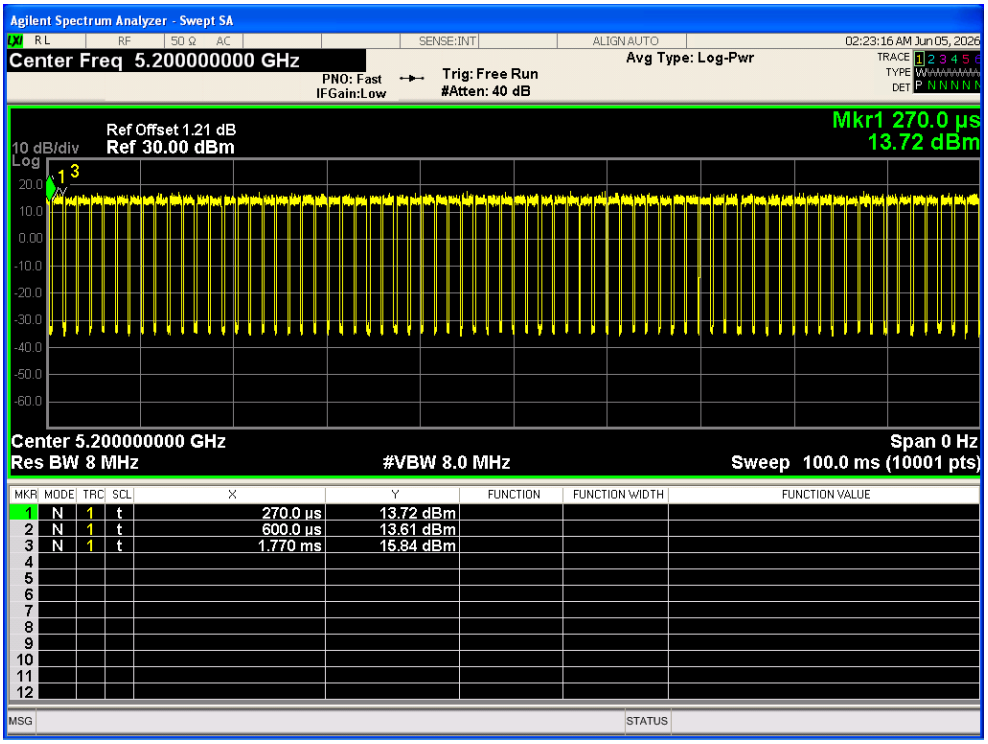
Duty Cycle NVNT ac80 5210MHz Ant1



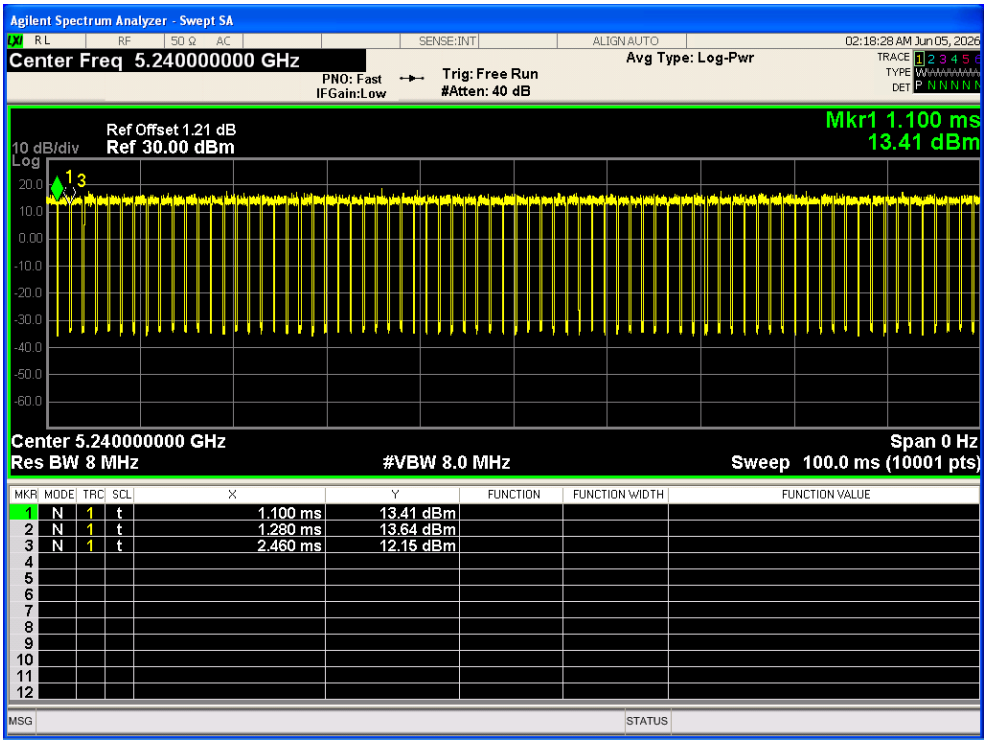
Duty Cycle NVNT n20 5180MHz Ant1



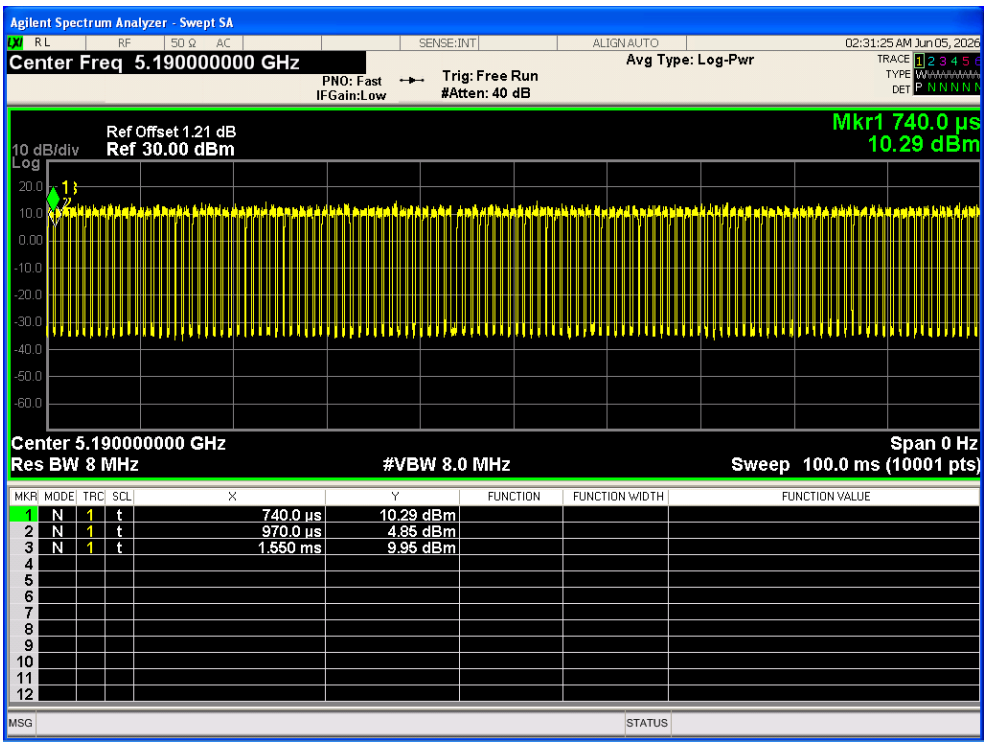
Duty Cycle NVNT n20 5200MHz Ant1



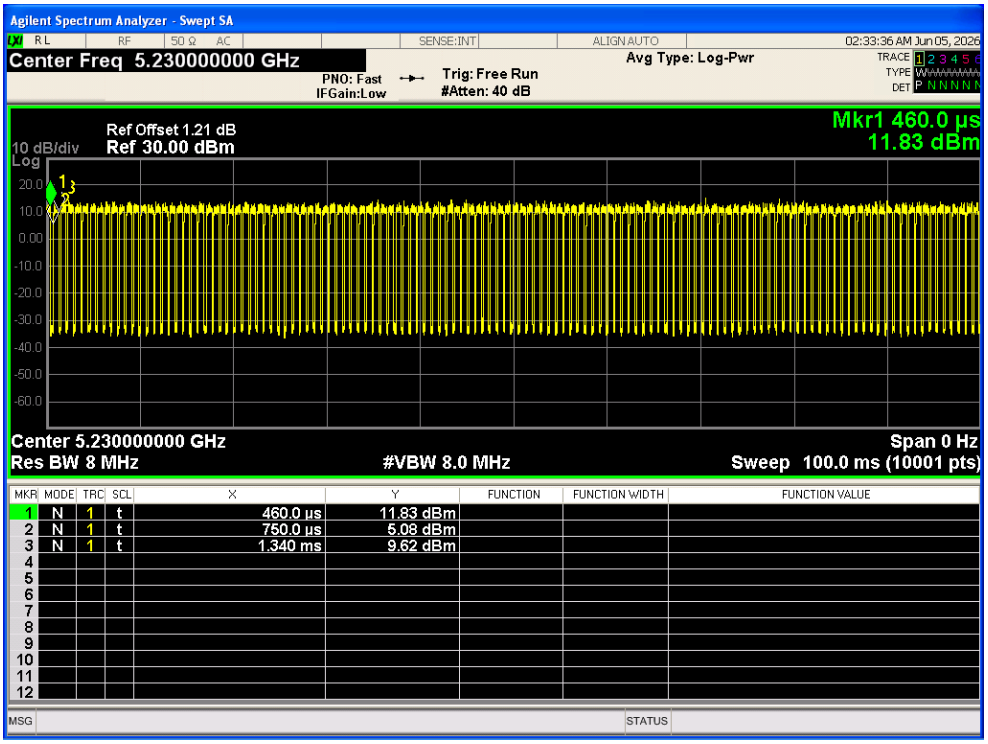
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.22	24	Pass
NVNT	a	5200	Ant1	10.484	24	Pass
NVNT	a	5240	Ant1	10.492	24	Pass
NVNT	ac20	5180	Ant1	9.574	24	Pass
NVNT	ac20	5200	Ant1	9.766	24	Pass
NVNT	ac20	5240	Ant1	10.198	24	Pass
NVNT	ac40	5190	Ant1	8.901	24	Pass
NVNT	ac40	5230	Ant1	9.362	24	Pass
NVNT	ac80	5210	Ant1	8.084	24	Pass
NVNT	n20	5180	Ant1	10.02	24	Pass
NVNT	n20	5200	Ant1	10.251	24	Pass
NVNT	n20	5240	Ant1	10.427	24	Pass
NVNT	n40	5190	Ant1	8.554	24	Pass
NVNT	n40	5230	Ant1	9.309	24	Pass

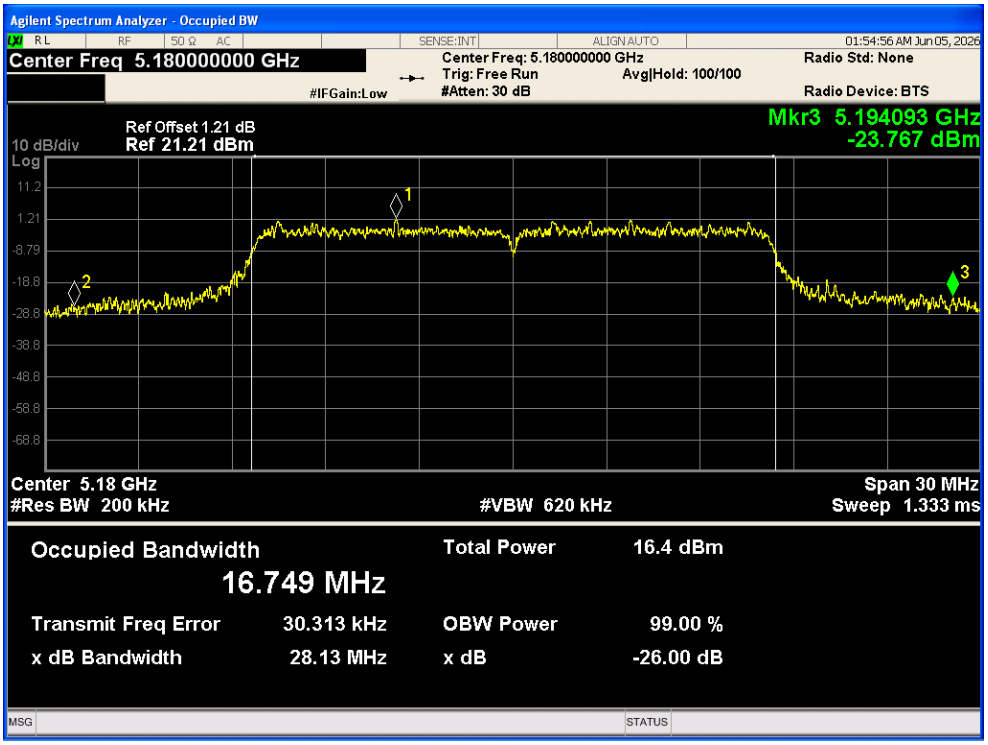
Note: The average power value already includes the duty cycle factor.

-26dB Bandwidth

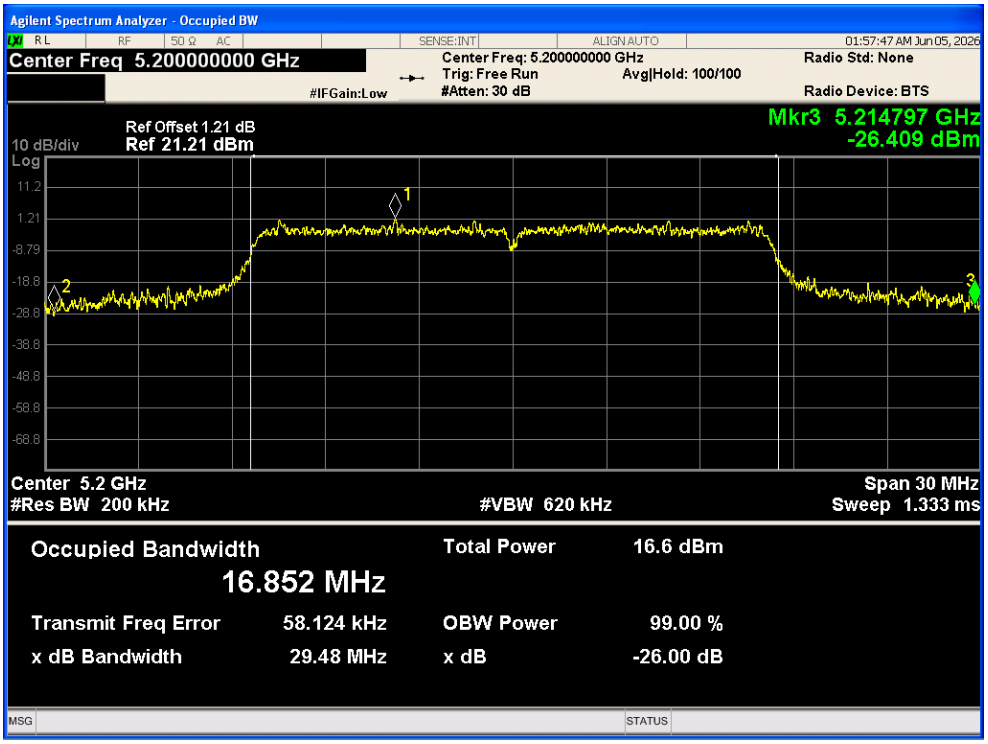
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.126	Pass
NVNT	a	5200	Ant1	29.477	Pass
NVNT	a	5240	Ant1	29.583	Pass
NVNT	ac20	5180	Ant1	28.634	Pass
NVNT	ac20	5200	Ant1	27.81	Pass
NVNT	ac20	5240	Ant1	27.896	Pass
NVNT	ac40	5190	Ant1	53.585	Pass

NVNT	ac40	5230	Ant1	54.545	Pass
NVNT	ac80	5210	Ant1	105.201	Pass
NVNT	n20	5180	Ant1	30	Pass
NVNT	n20	5200	Ant1	29.312	Pass
NVNT	n20	5240	Ant1	29.956	Pass
NVNT	n40	5190	Ant1	54.828	Pass
NVNT	n40	5230	Ant1	56.196	Pass

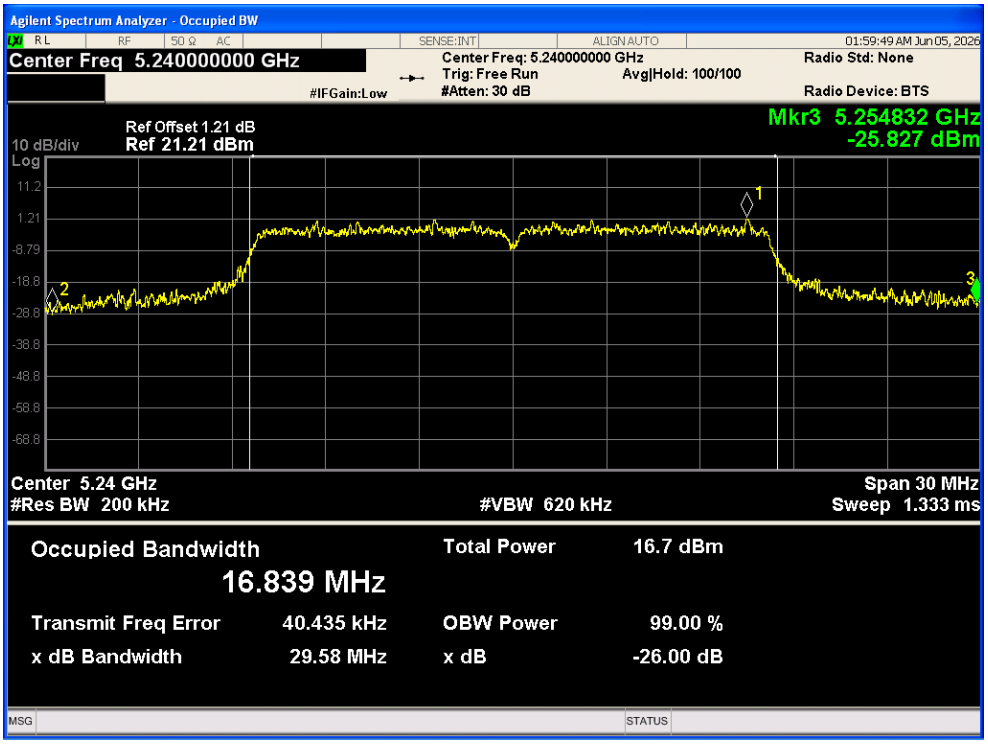
-26dB Bandwidth NVNT a 5180MHz Ant1



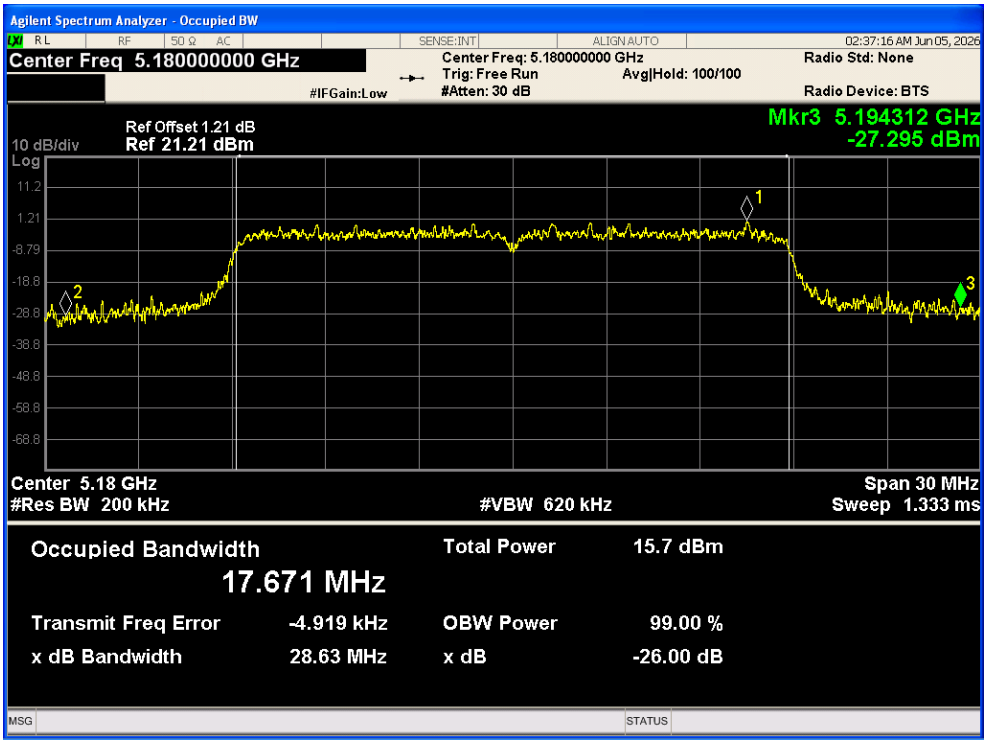
-26dB Bandwidth NVNT a 5200MHz Ant1



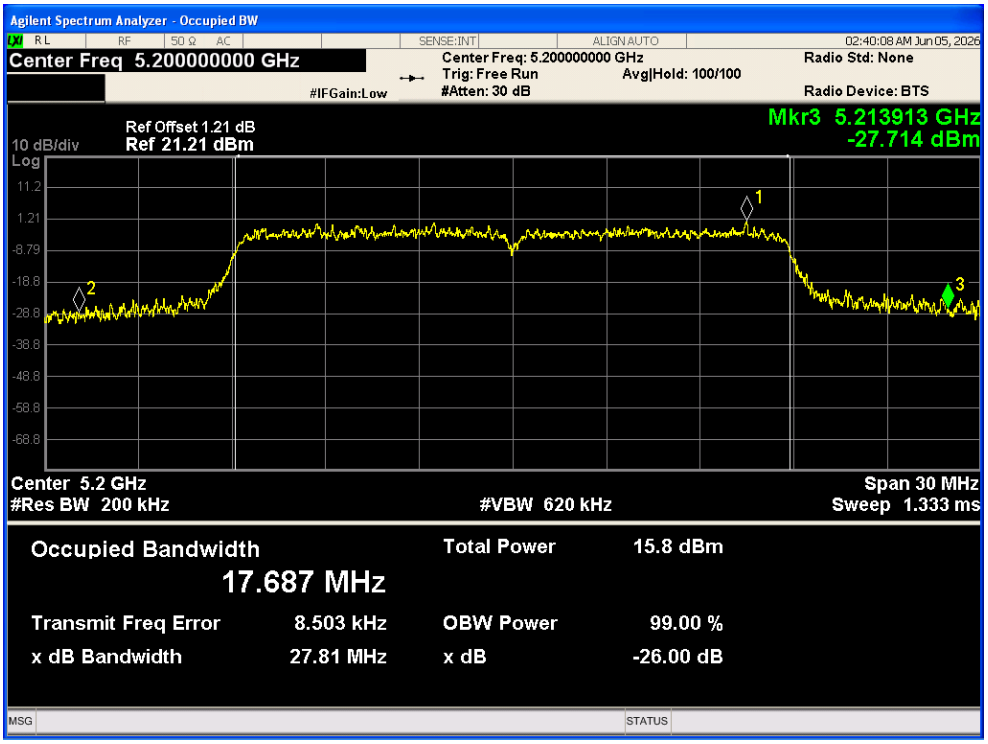
-26dB Bandwidth NVNT a 5240MHz Ant1



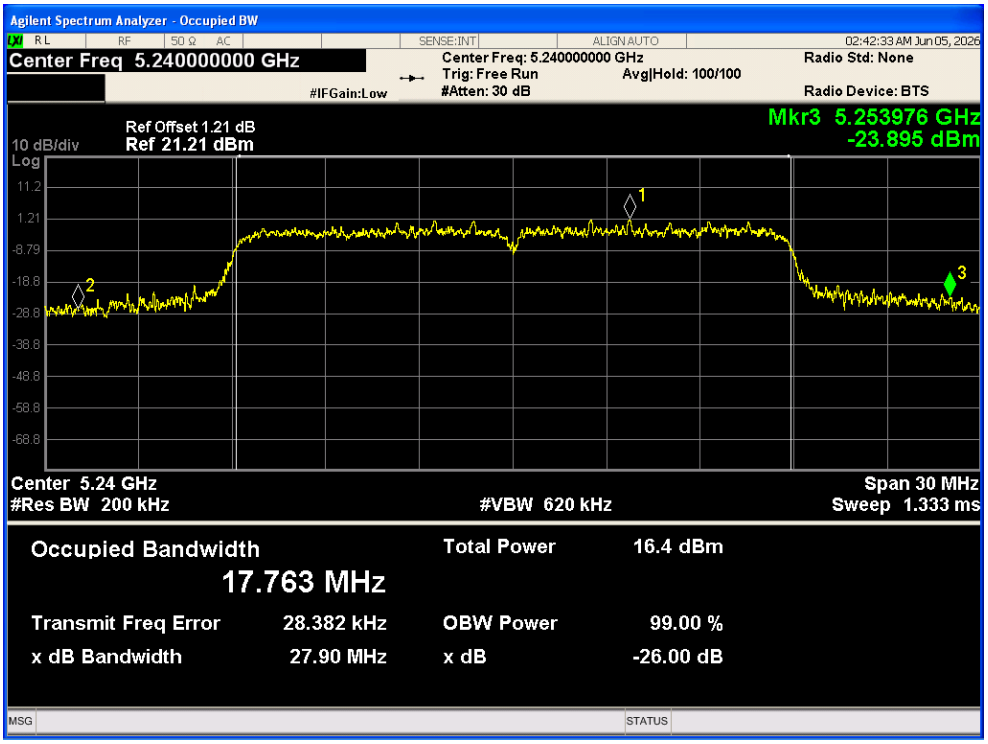
-26dB Bandwidth NVNT ac20 5180MHz Ant1



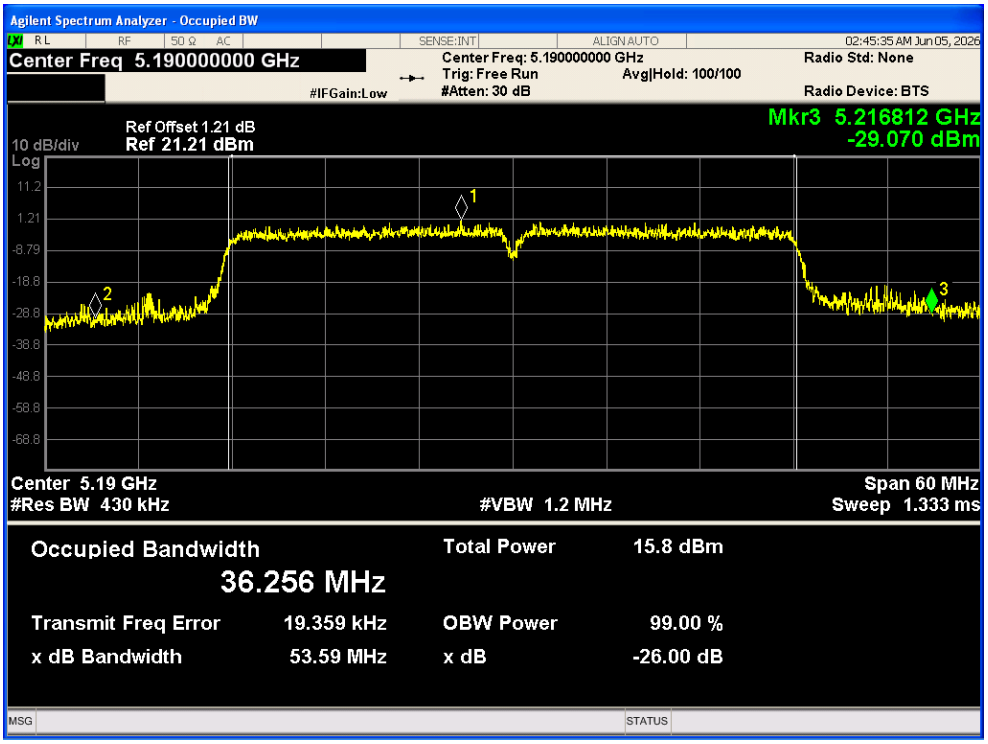
-26dB Bandwidth NVNT ac20 5200MHz Ant1



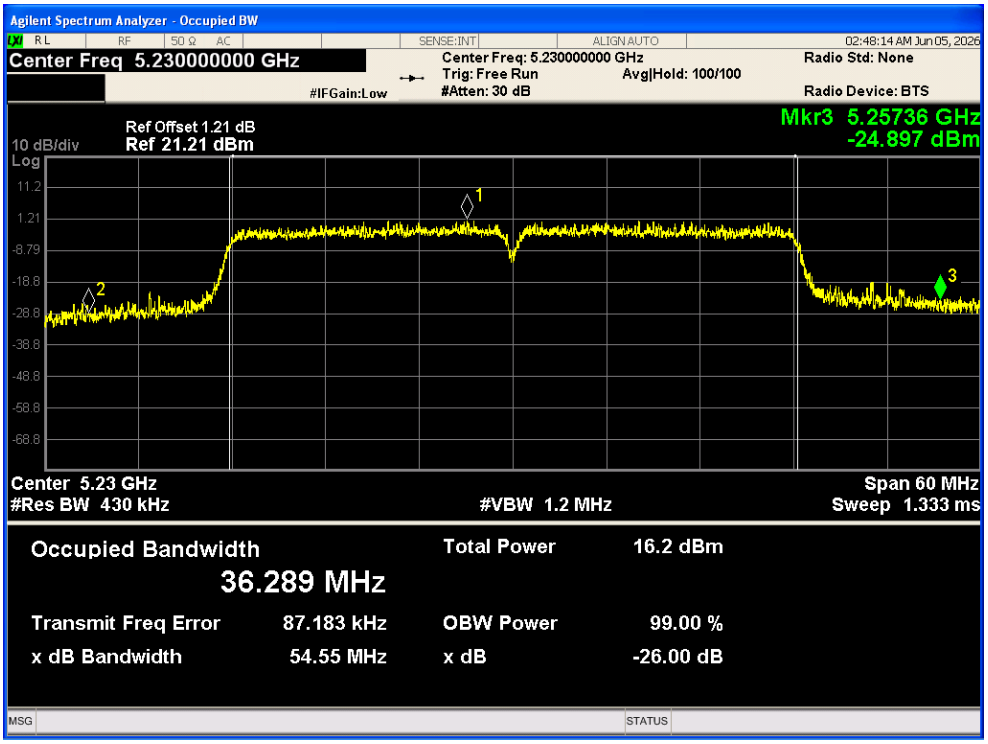
-26dB Bandwidth NVNT ac20 5240MHz Ant1



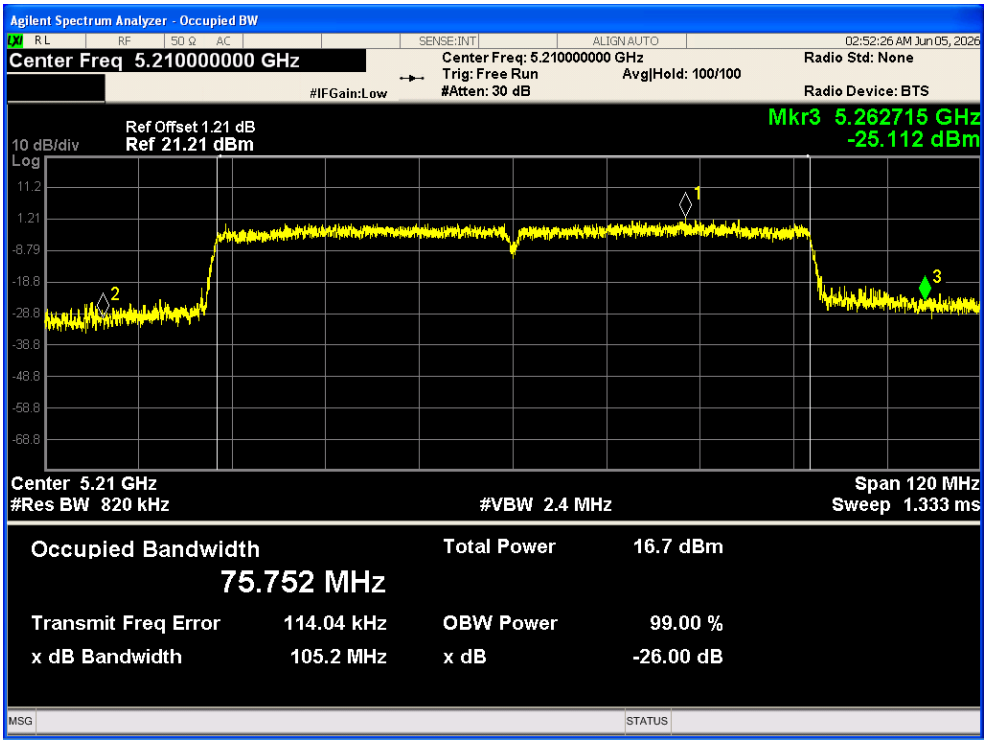
-26dB Bandwidth NVNT ac40 5190MHz Ant1



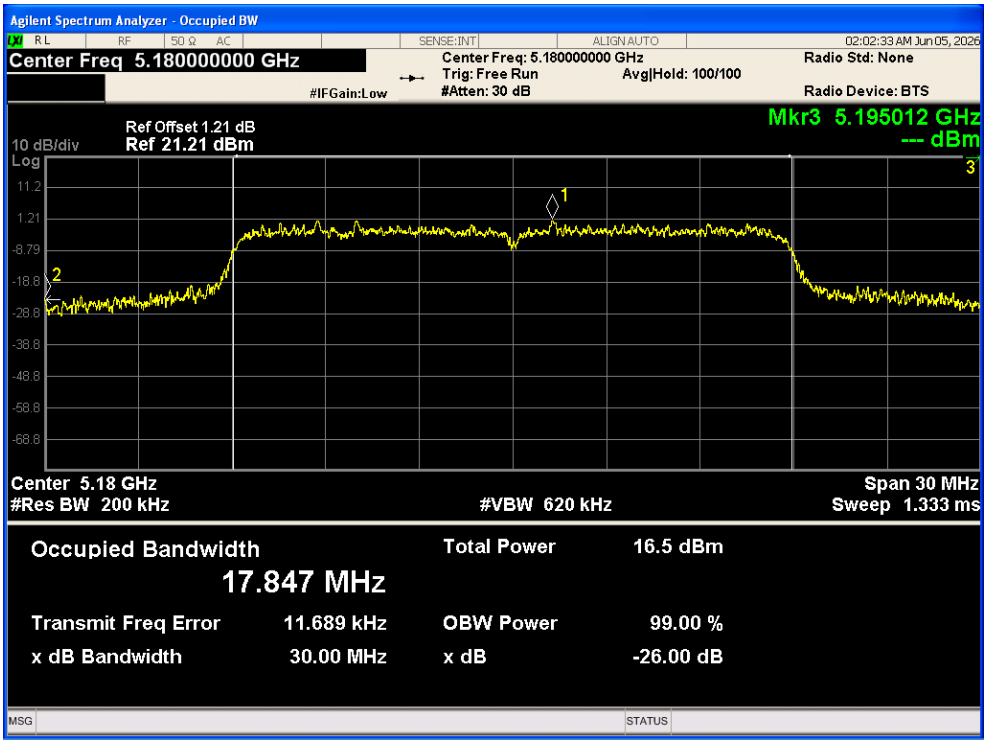
-26dB Bandwidth NVNT ac40 5230MHz Ant1



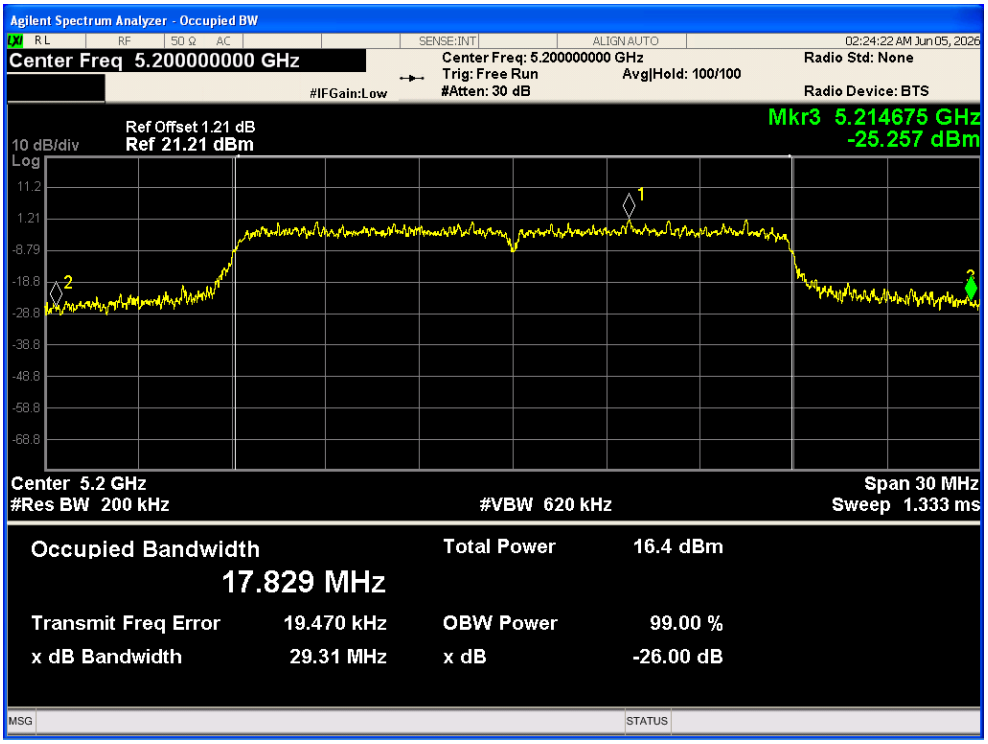
-26dB Bandwidth NVNT ac80 5210MHz Ant1



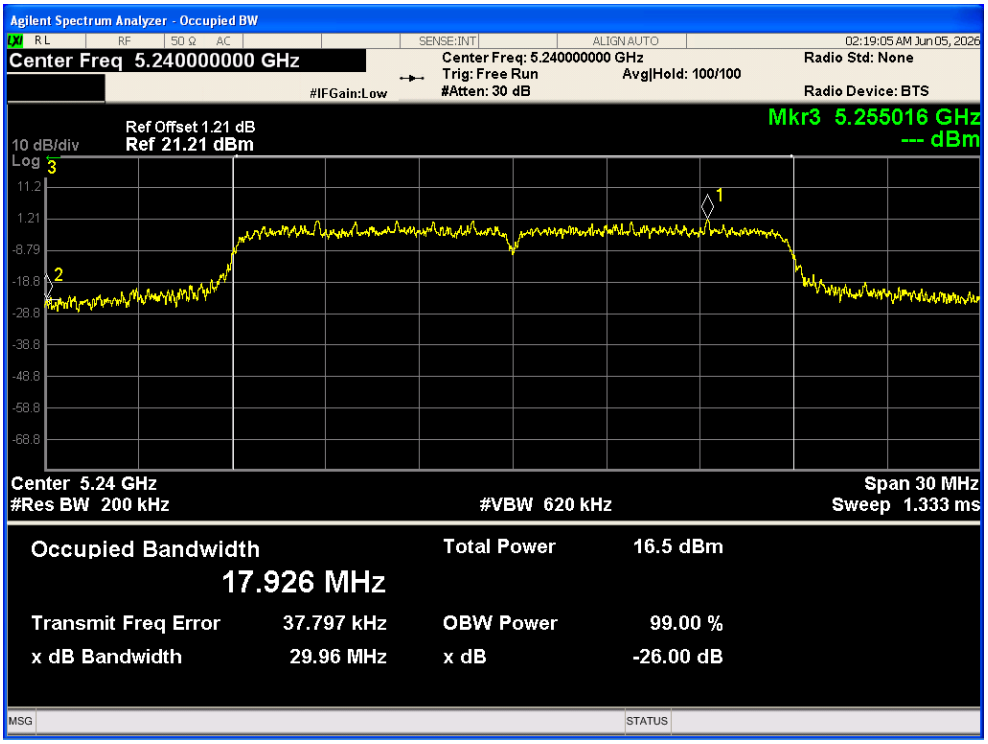
-26dB Bandwidth NVNT n20 5180MHz Ant1



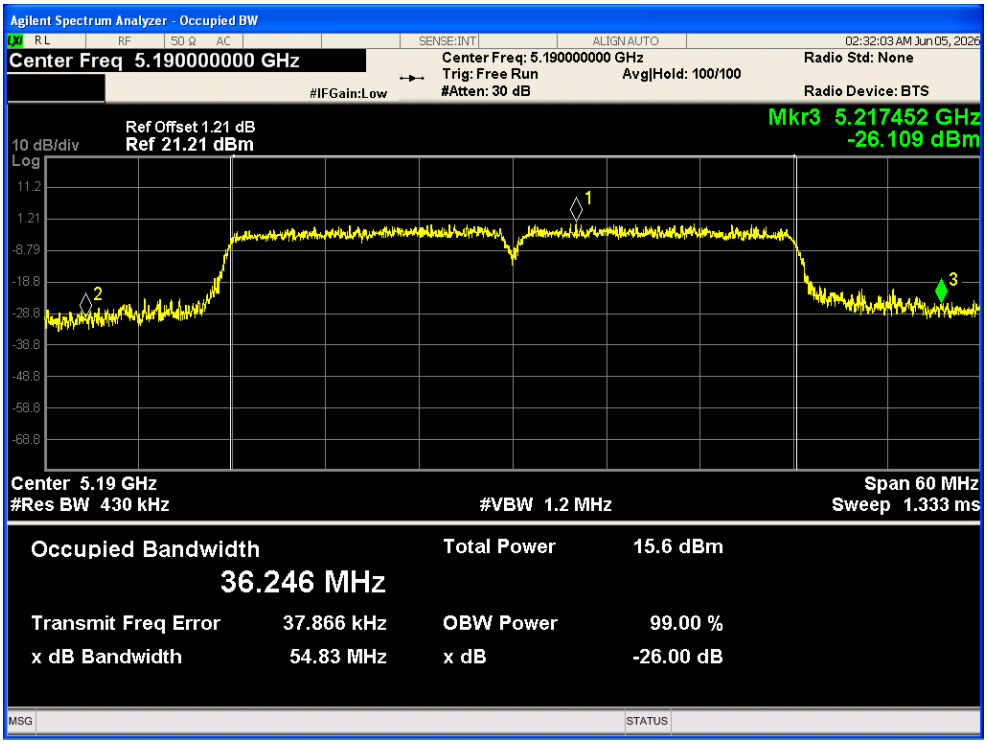
-26dB Bandwidth NVNT n20 5200MHz Ant1



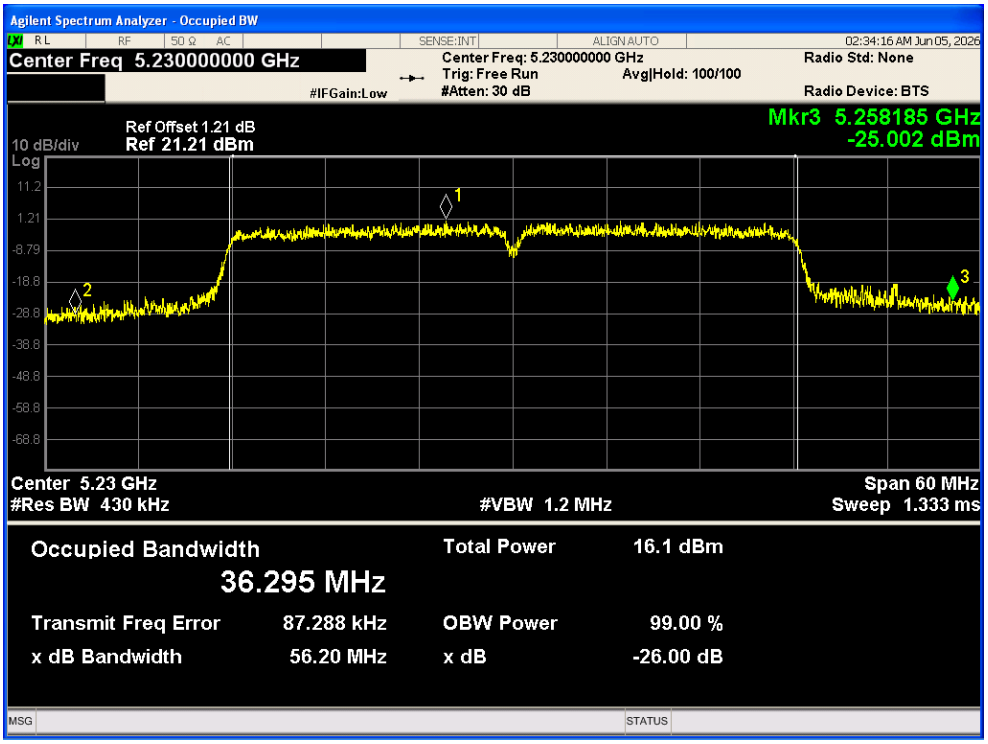
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



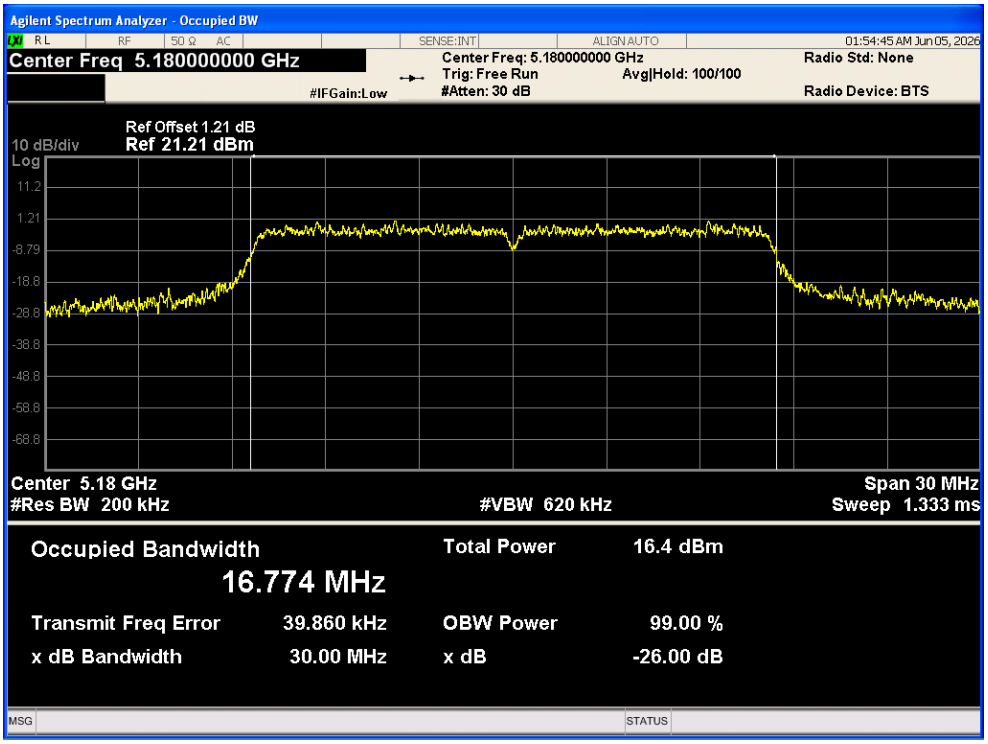
-26dB Bandwidth NVNT n40 5230MHz Ant1



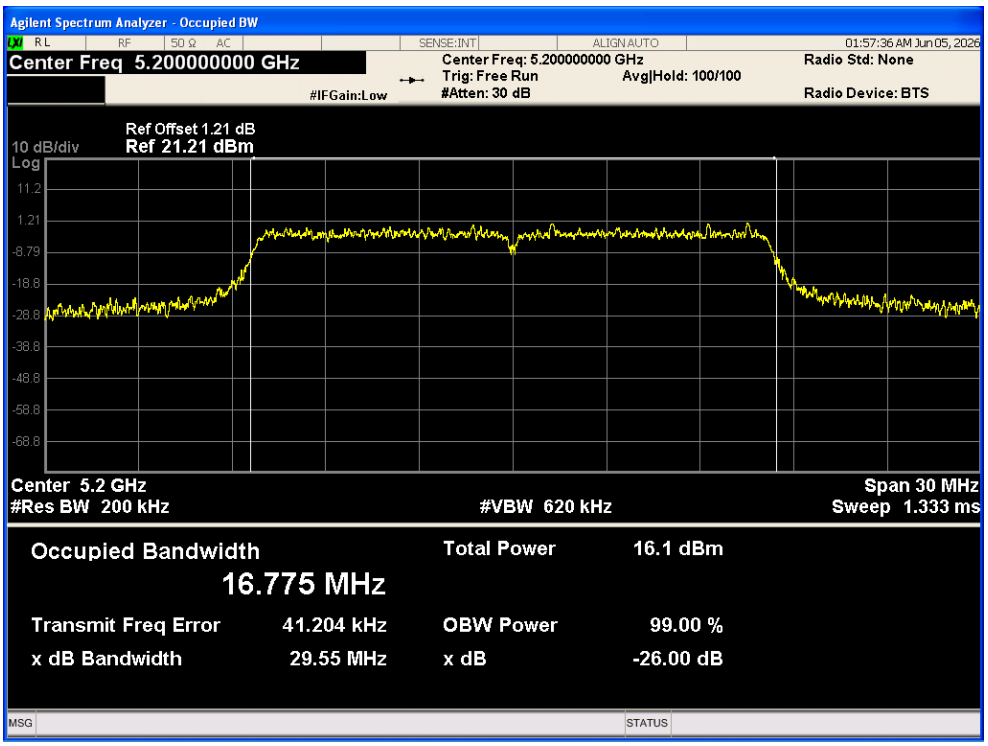
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.774
NVNT	a	5200	Ant1	16.775
NVNT	a	5240	Ant1	16.918
NVNT	ac20	5180	Ant1	17.673
NVNT	ac20	5200	Ant1	17.711
NVNT	ac20	5240	Ant1	17.738
NVNT	ac40	5190	Ant1	36.213
NVNT	ac40	5230	Ant1	36.274
NVNT	ac80	5210	Ant1	75.732
NVNT	n20	5180	Ant1	17.824
NVNT	n20	5200	Ant1	17.802
NVNT	n20	5240	Ant1	17.894
NVNT	n40	5190	Ant1	36.264
NVNT	n40	5230	Ant1	36.304

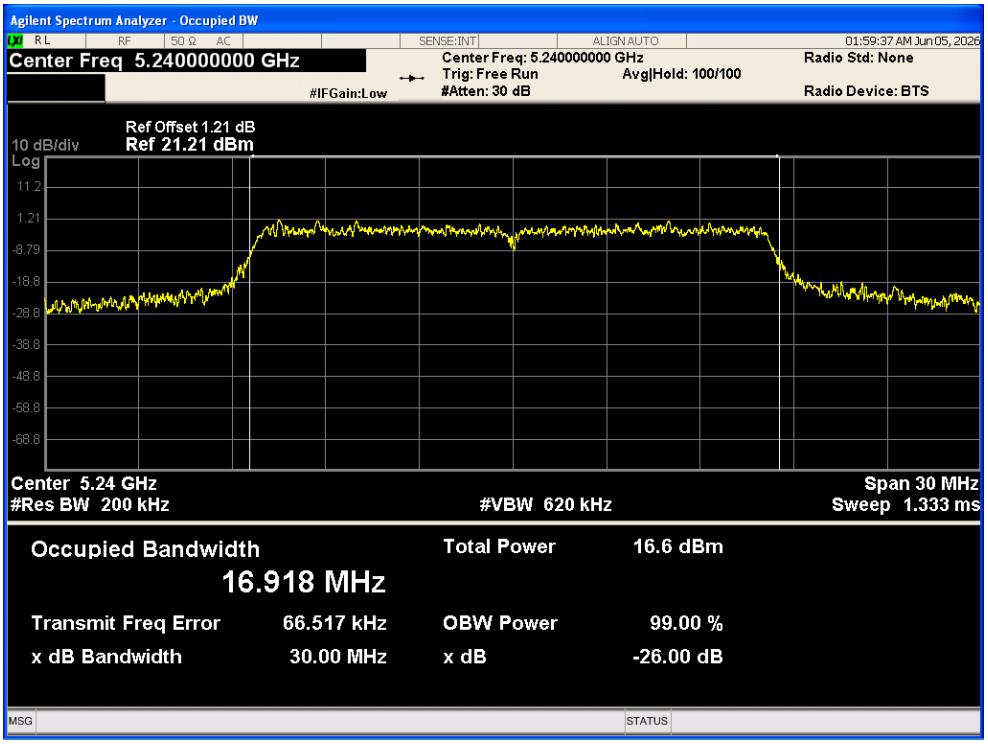
OBW NVNT a 5180MHz Ant1



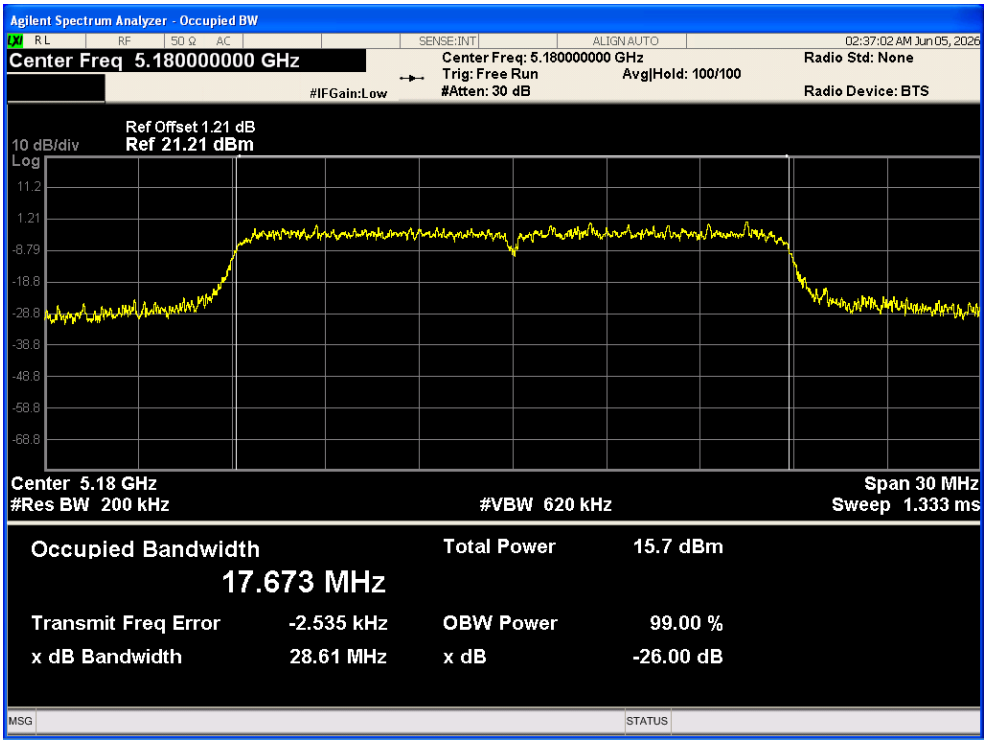
OBW NVNT a 5200MHz Ant1



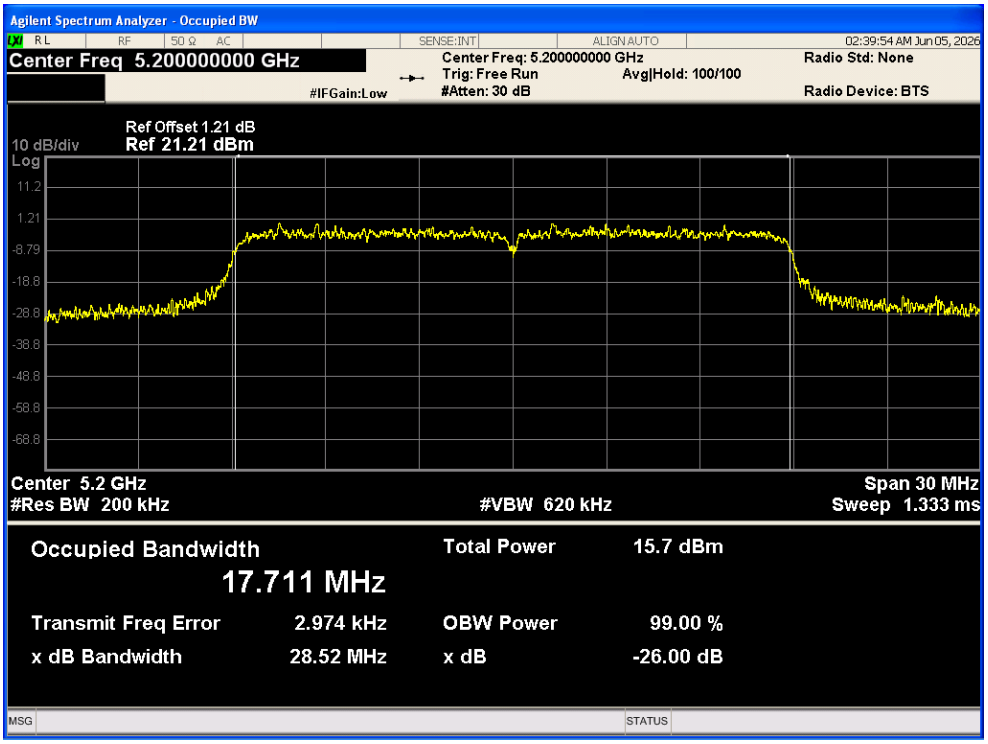
OBW NVNT a 5240MHz Ant1



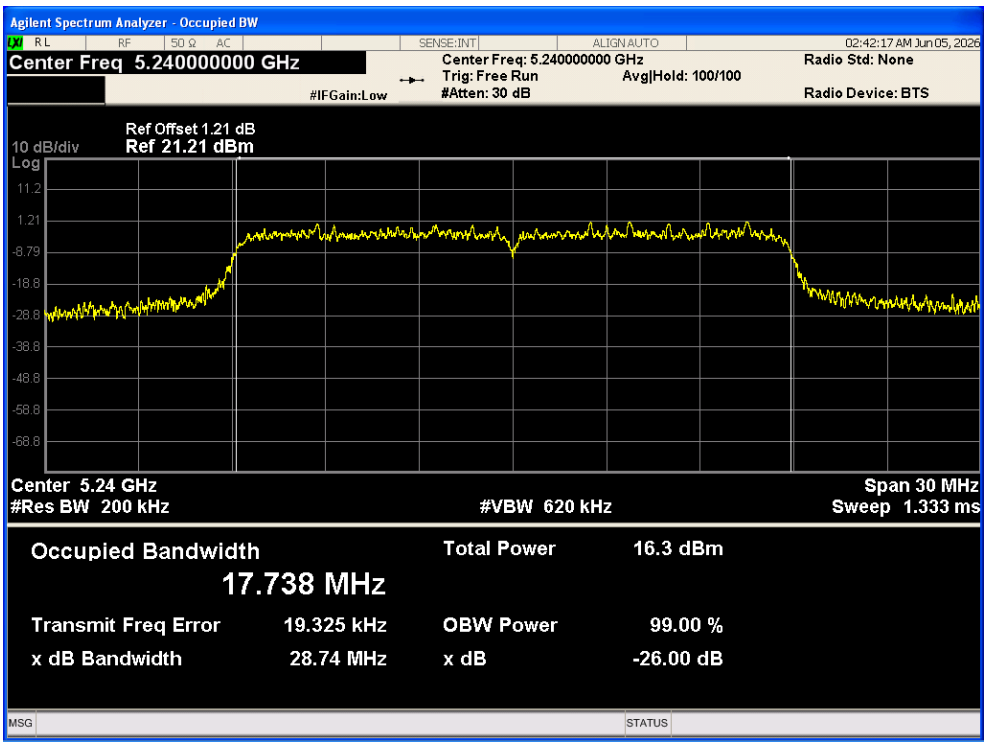
OBW NVNT ac20 5180MHz Ant1



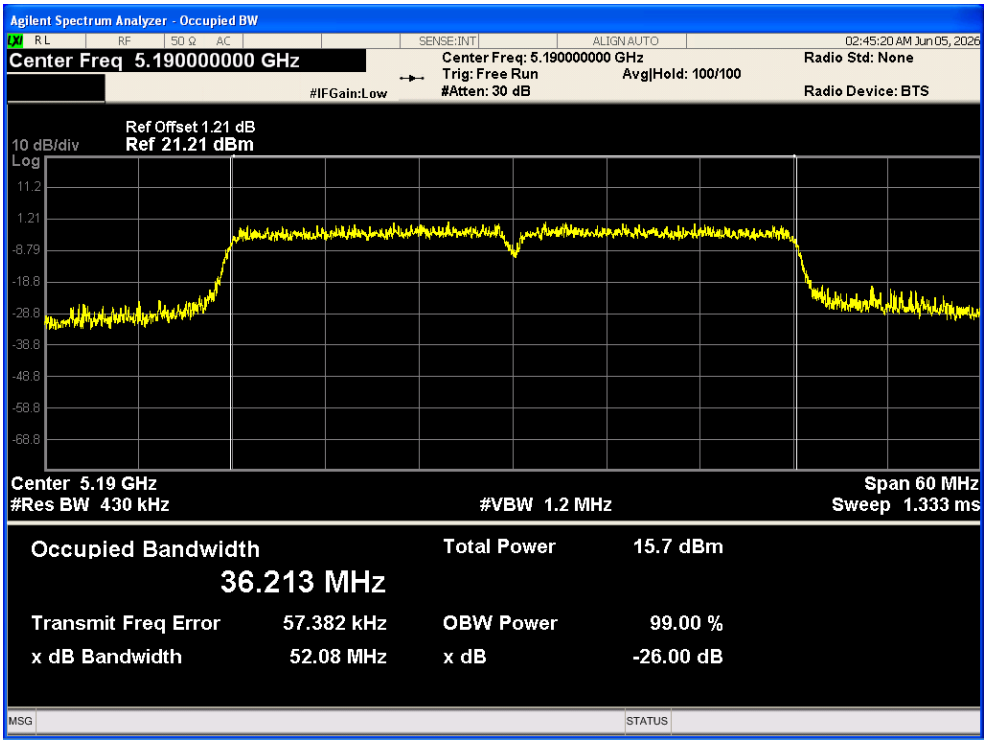
OBW NVNT ac20 5200MHz Ant1



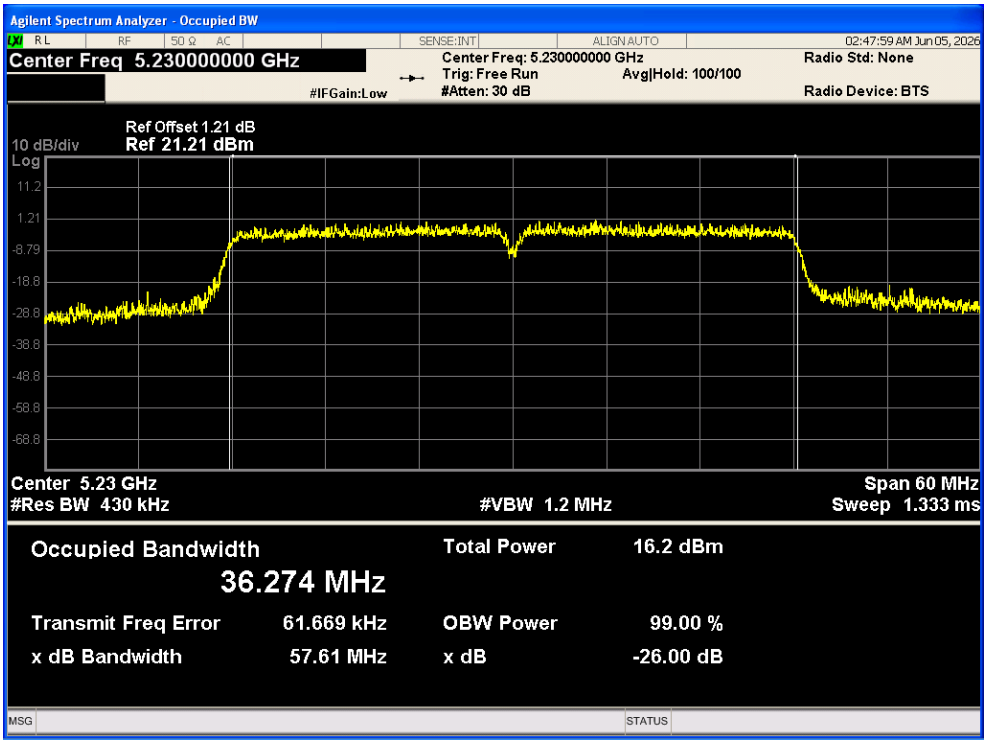
OBW NVNT ac20 5240MHz Ant1



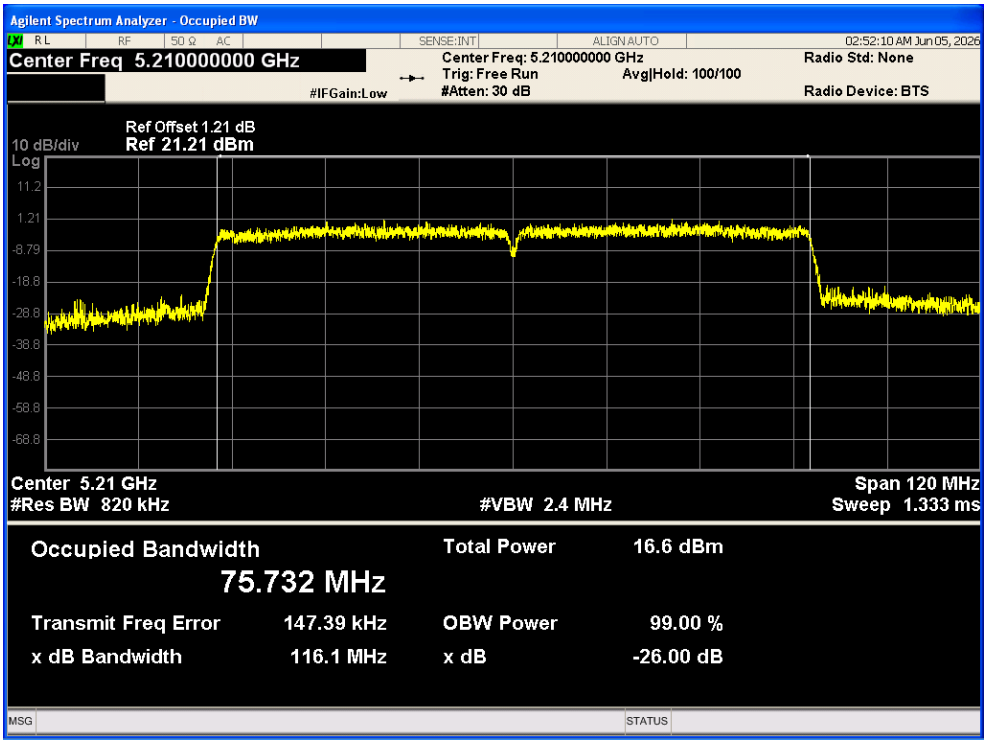
OBW NVNT ac40 5190MHz Ant1



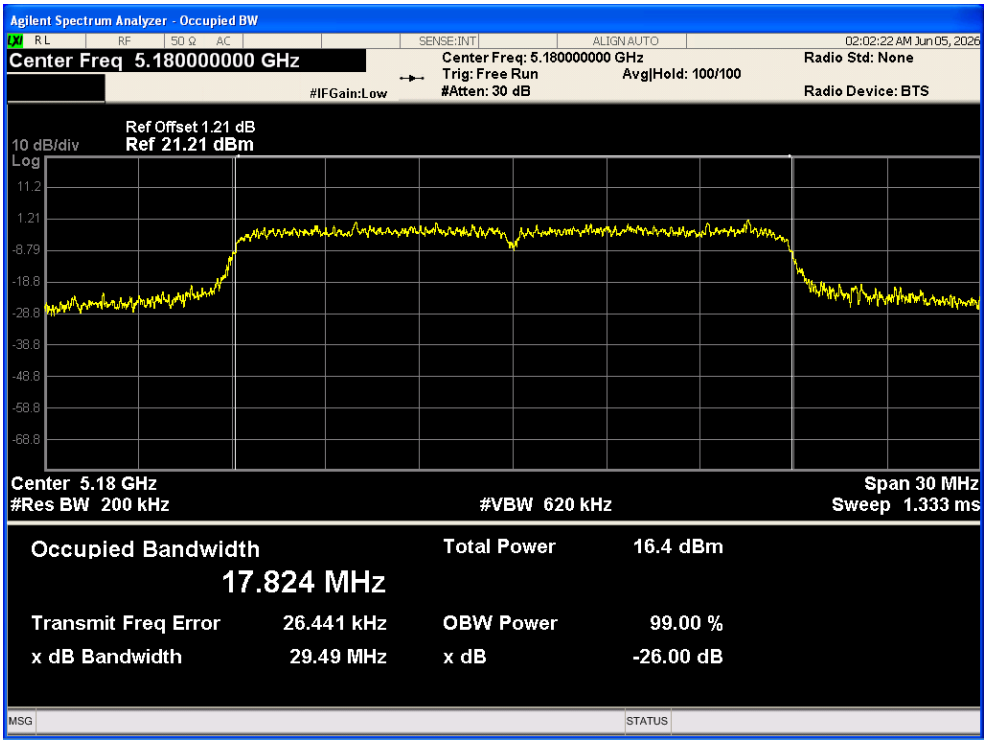
OBW NVNT ac40 5230MHz Ant1



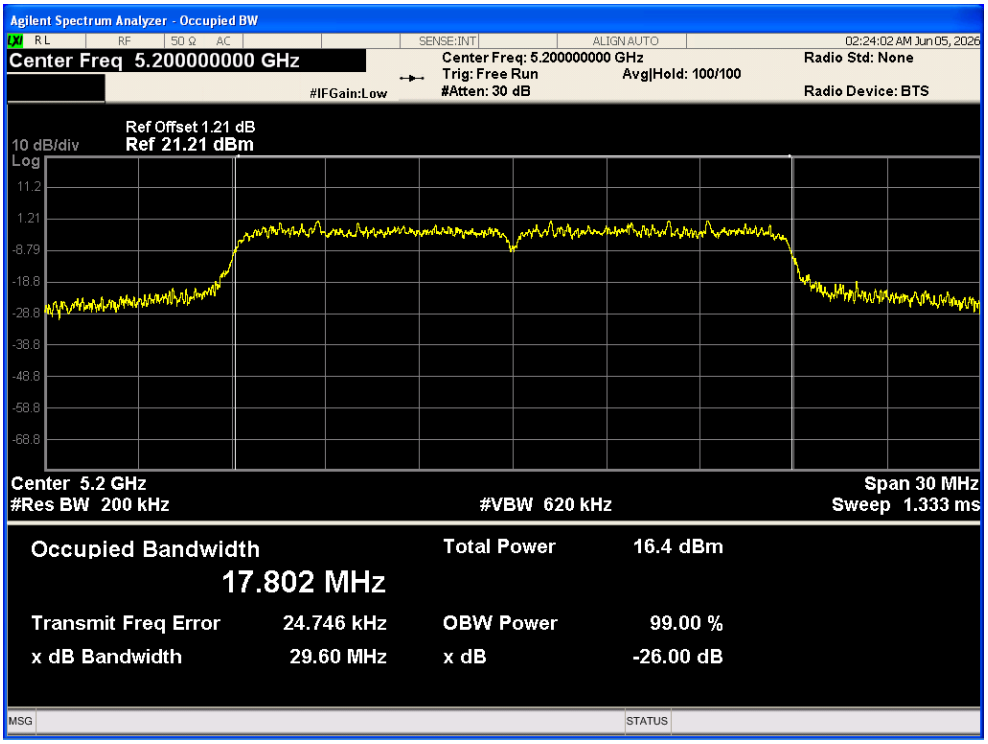
OBW NVNT ac80 5210MHz Ant1



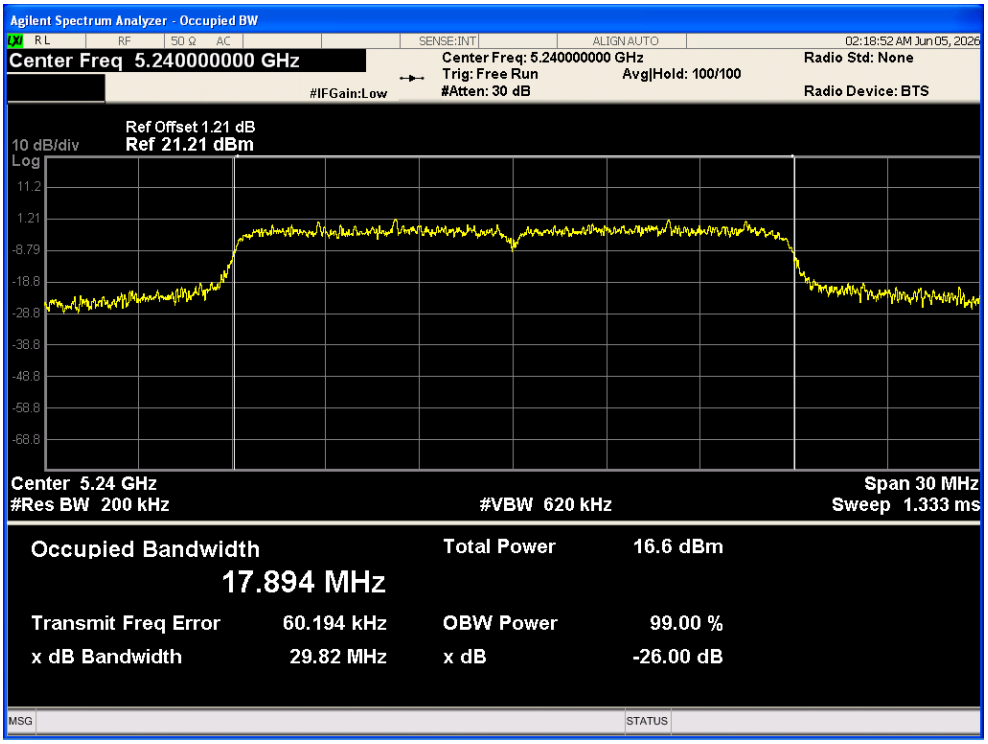
OBW NVNT n20 5180MHz Ant1



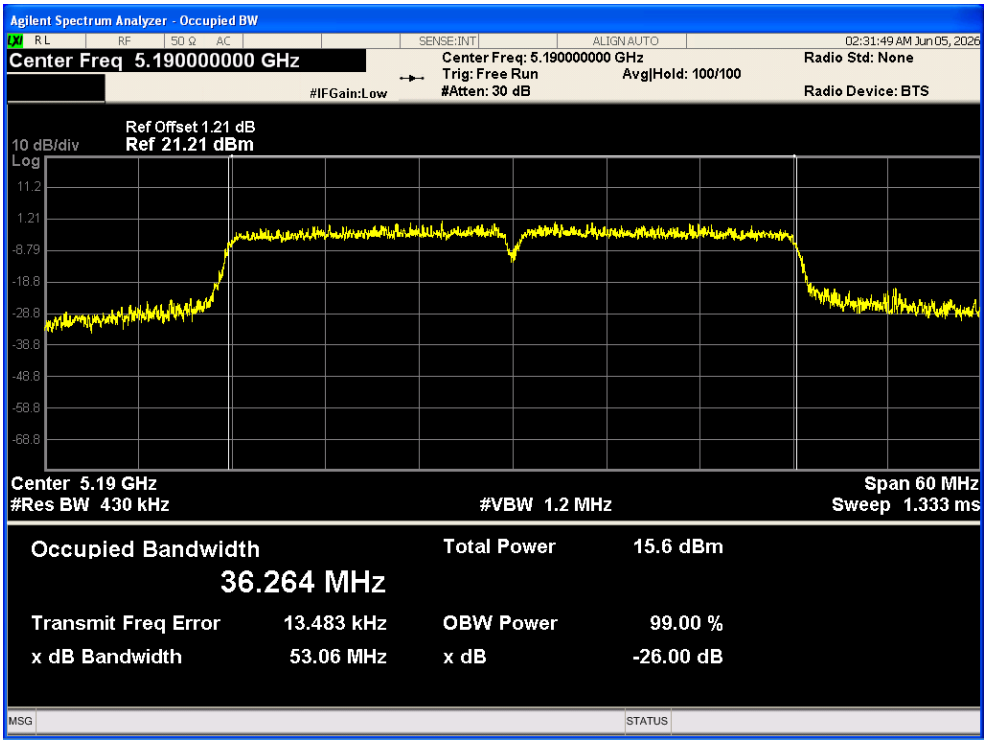
OBW NVNT n20 5200MHz Ant1



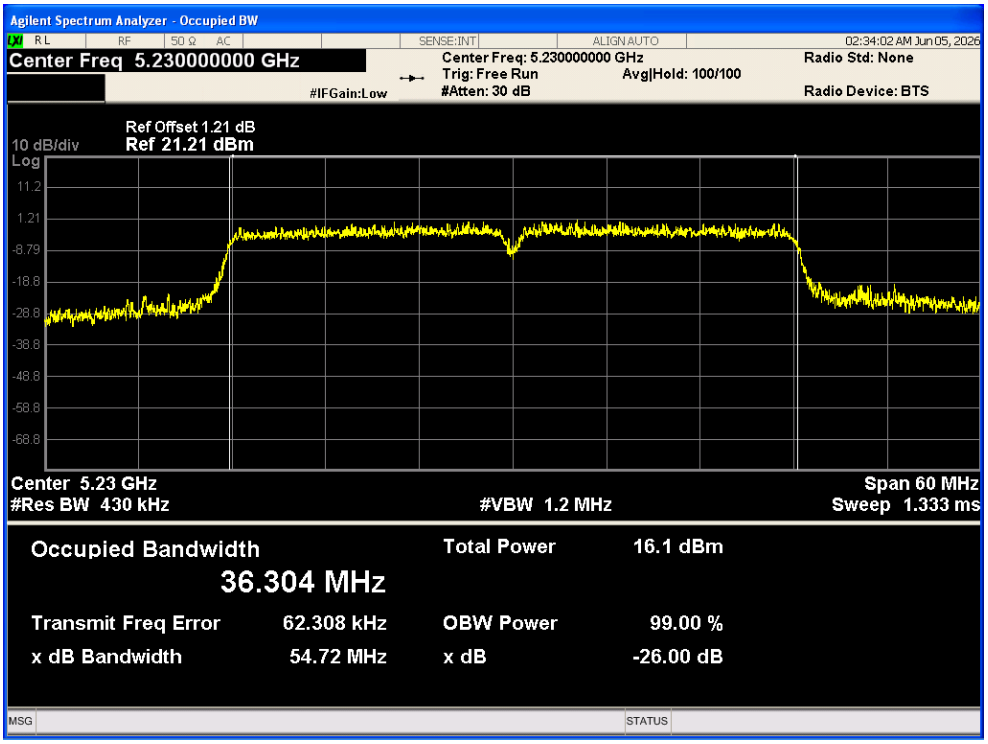
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

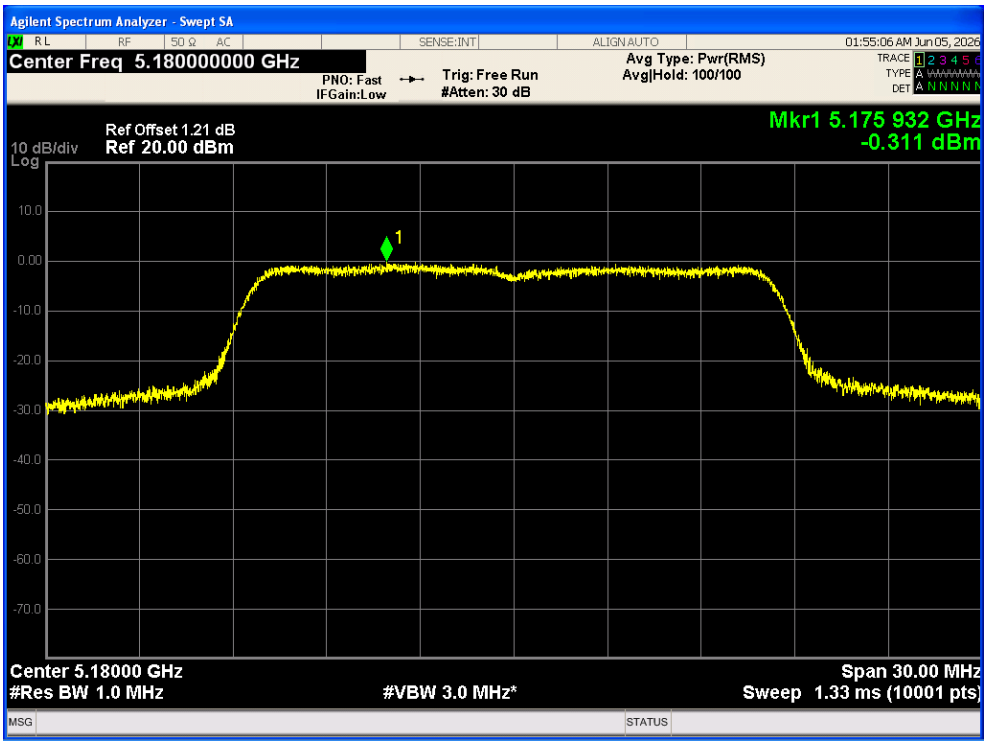


Maximum Power Spectral Density Level

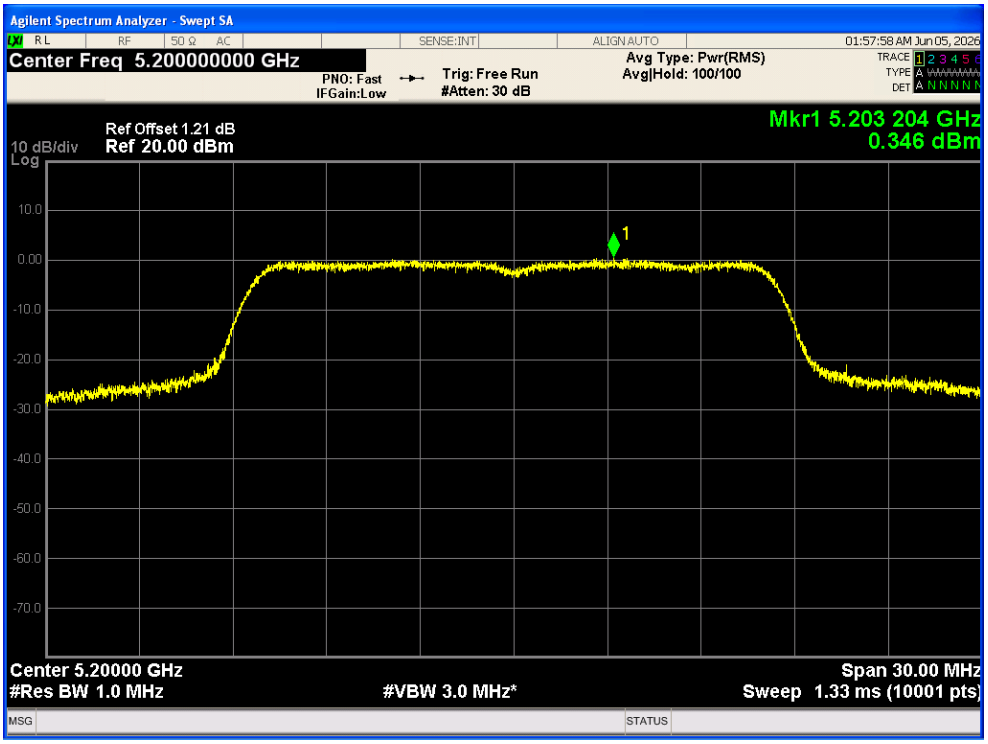
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.311	0.55	0.239	11	Pass
NVNT	a	5200	Ant1	0.346	0.09	0.436	11	Pass
NVNT	a	5240	Ant1	-0.111	0.52	0.409	11	Pass
NVNT	ac20	5180	Ant1	-1.003	0.61	-0.393	11	Pass

NVNT	ac20	5200	Ant1	-0.975	0.63	-0.345	11	Pass
NVNT	ac20	5240	Ant1	-0.666	0.62	-0.046	11	Pass
NVNT	ac40	5190	Ant1	-4.57	1.17	-3.4	11	Pass
NVNT	ac40	5230	Ant1	-4.225	1.16	-3.065	11	Pass
NVNT	ac80	5210	Ant1	-7.96	2.39	-5.57	11	Pass
NVNT	n20	5180	Ant1	-0.299	0.64	0.341	11	Pass
NVNT	n20	5200	Ant1	-0.667	0.8	0.133	11	Pass
NVNT	n20	5240	Ant1	-0.385	0.6	0.215	11	Pass
NVNT	n40	5190	Ant1	-5.471	1.38	-4.091	11	Pass
NVNT	n40	5230	Ant1	-4.855	1.17	-3.685	11	Pass

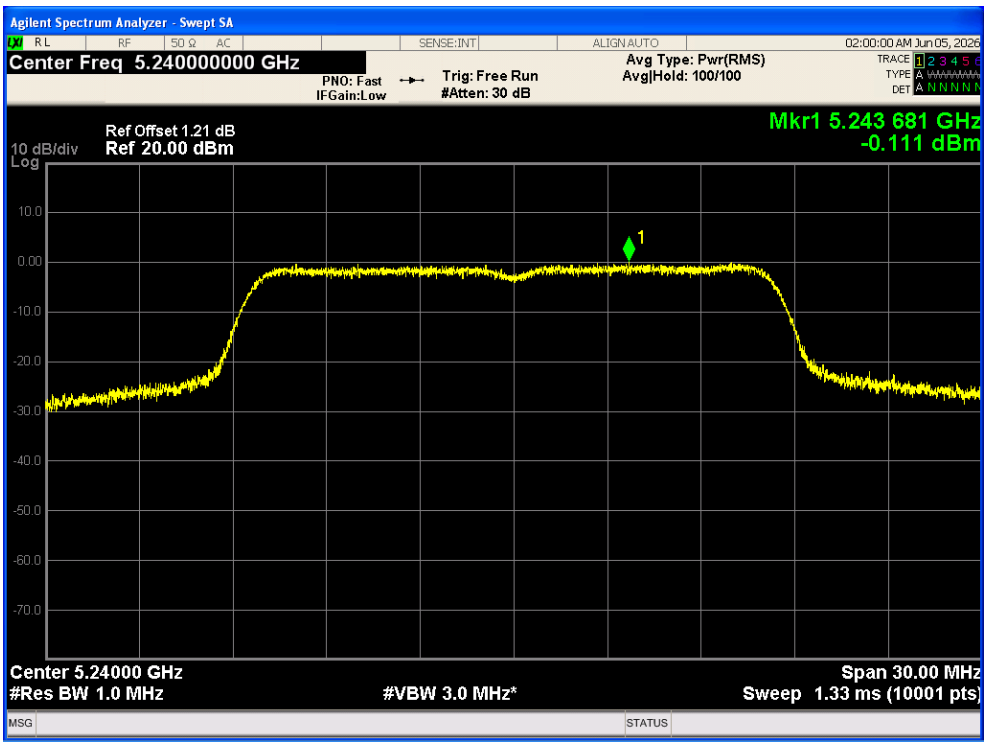
PSD NVNT a 5180MHz Ant1



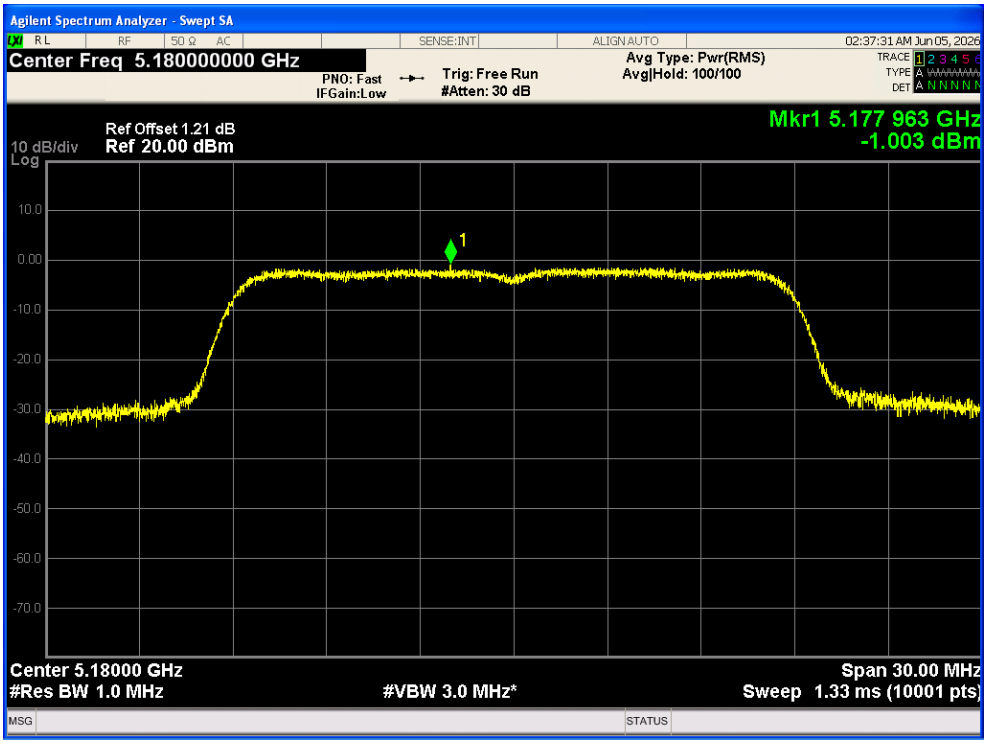
PSD NVNT a 5200MHz Ant1



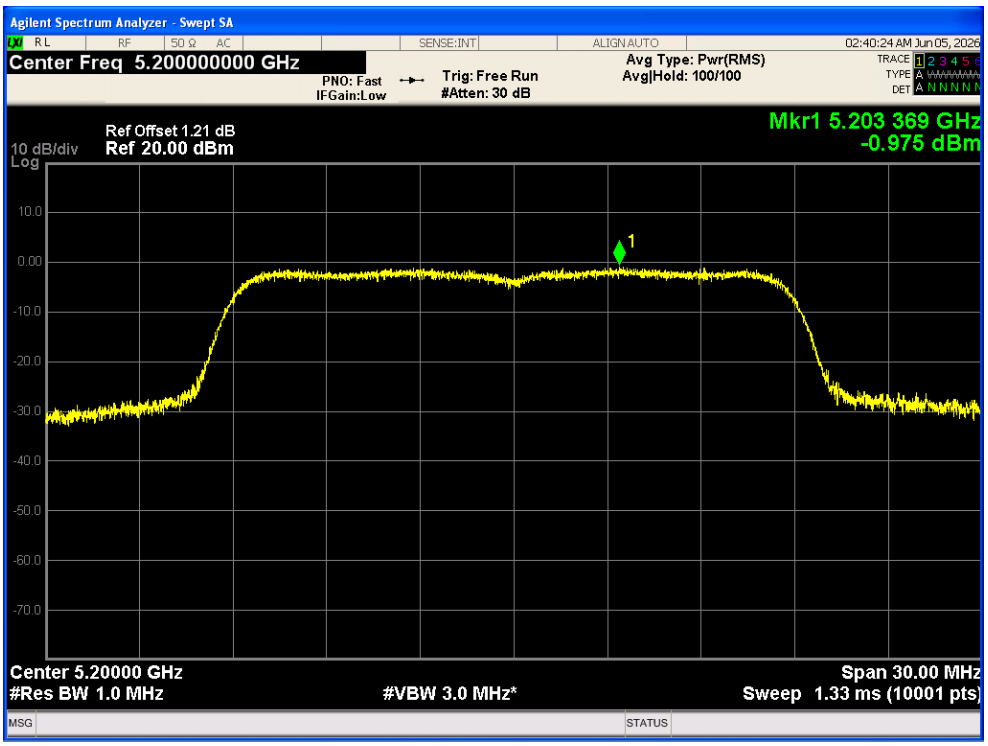
PSD NVNT a 5240MHz Ant1



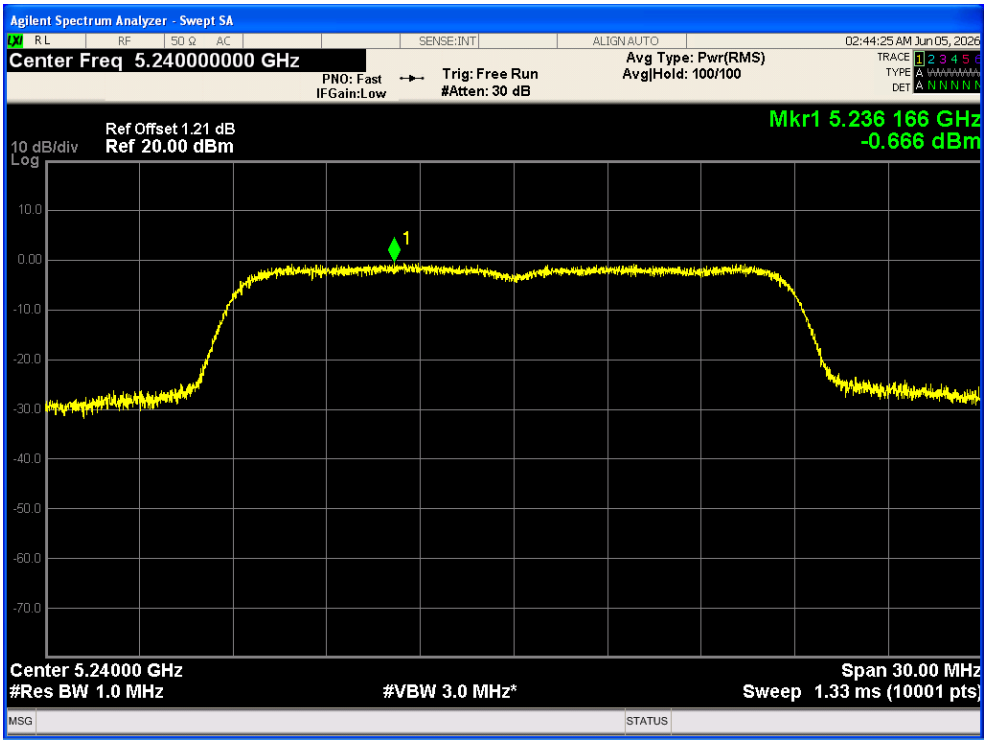
PSD NVNT ac20 5180MHz Ant1



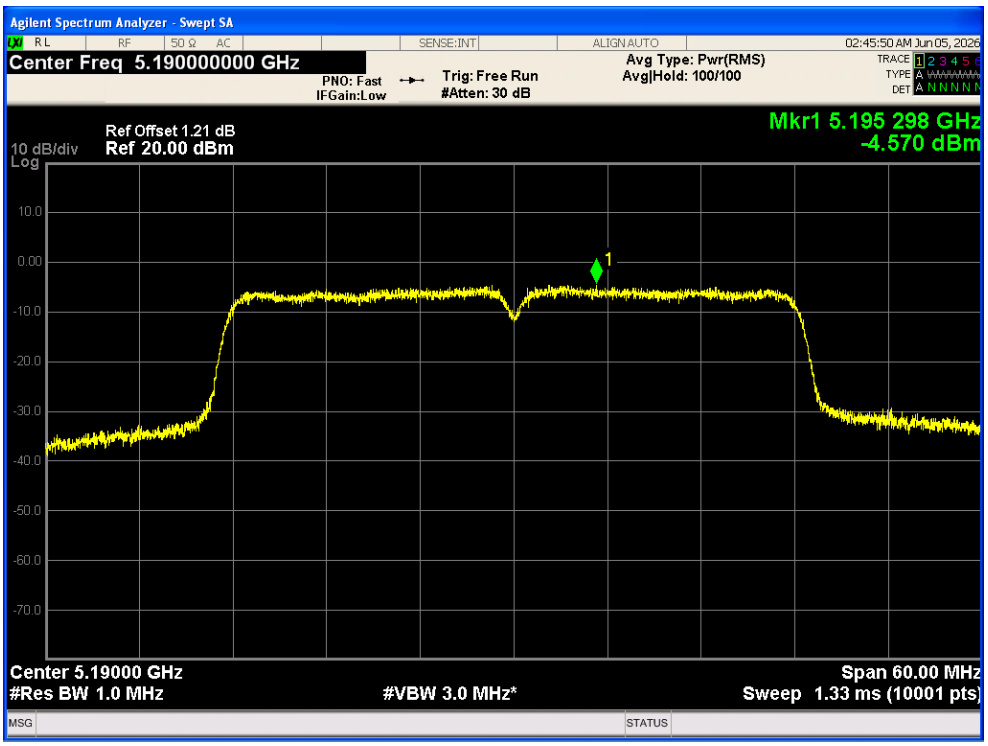
PSD NVNT ac20 5200MHz Ant1



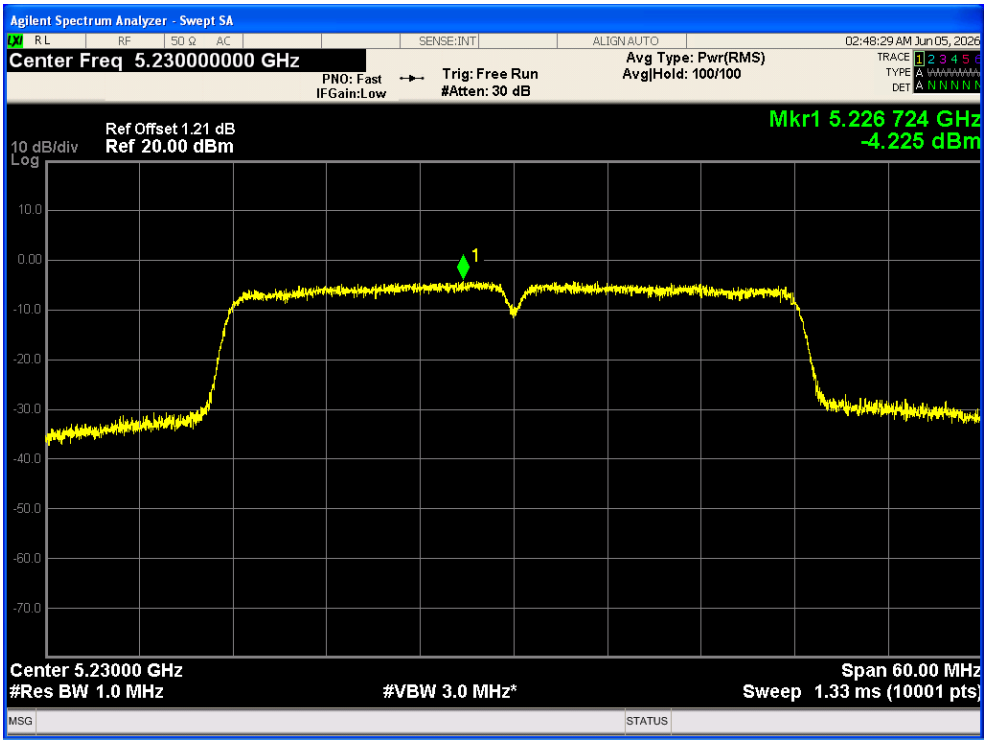
PSD NVNT ac20 5240MHz Ant1



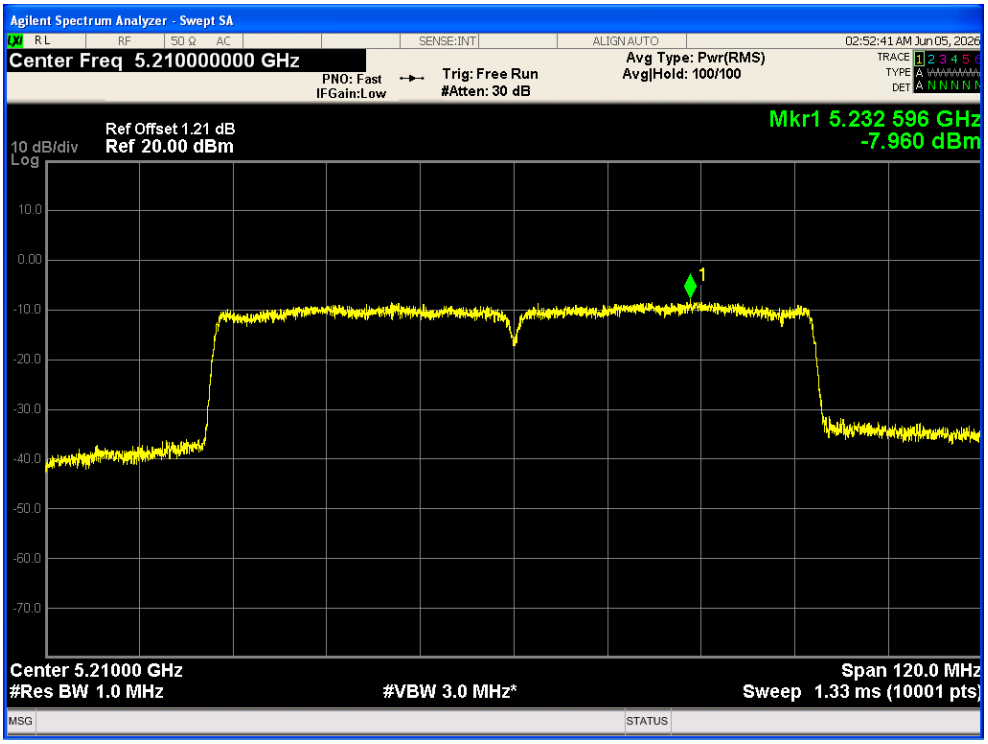
PSD NVNT ac40 5190MHz Ant1



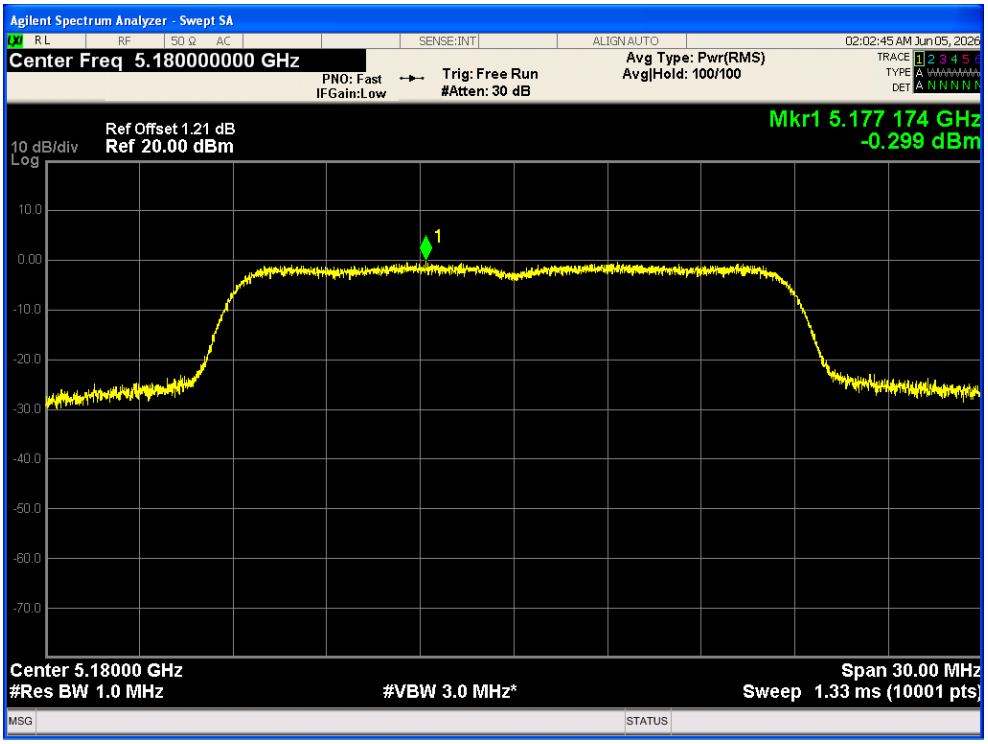
PSD NVNT ac40 5230MHz Ant1



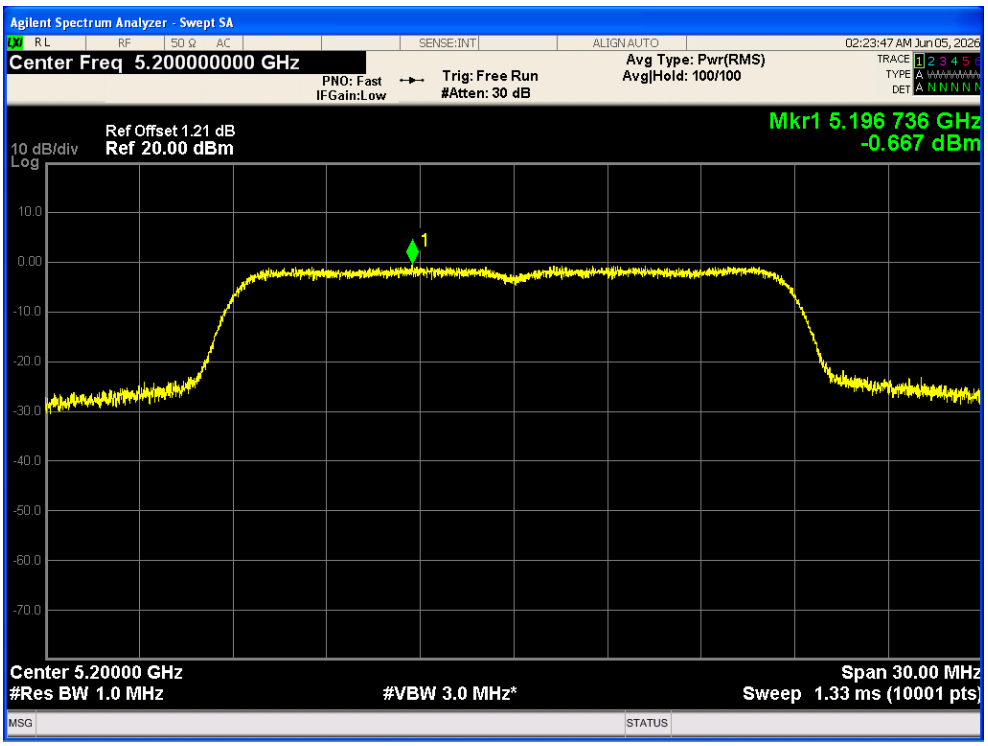
PSD NVNT ac80 5210MHz Ant1



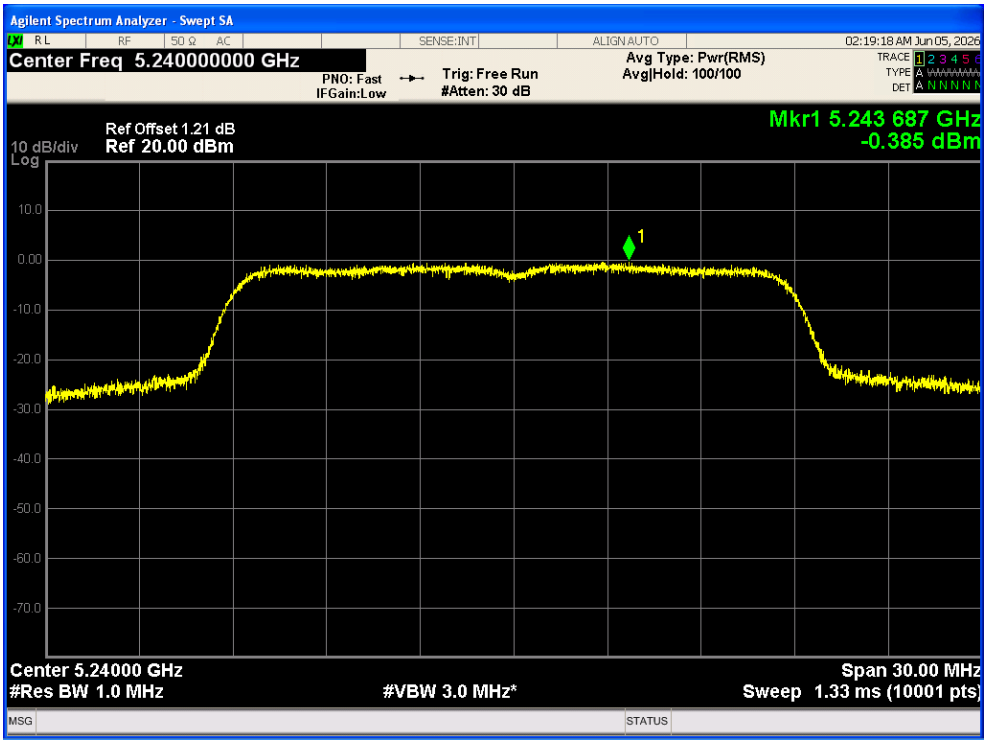
PSD NVNT n20 5180MHz Ant1



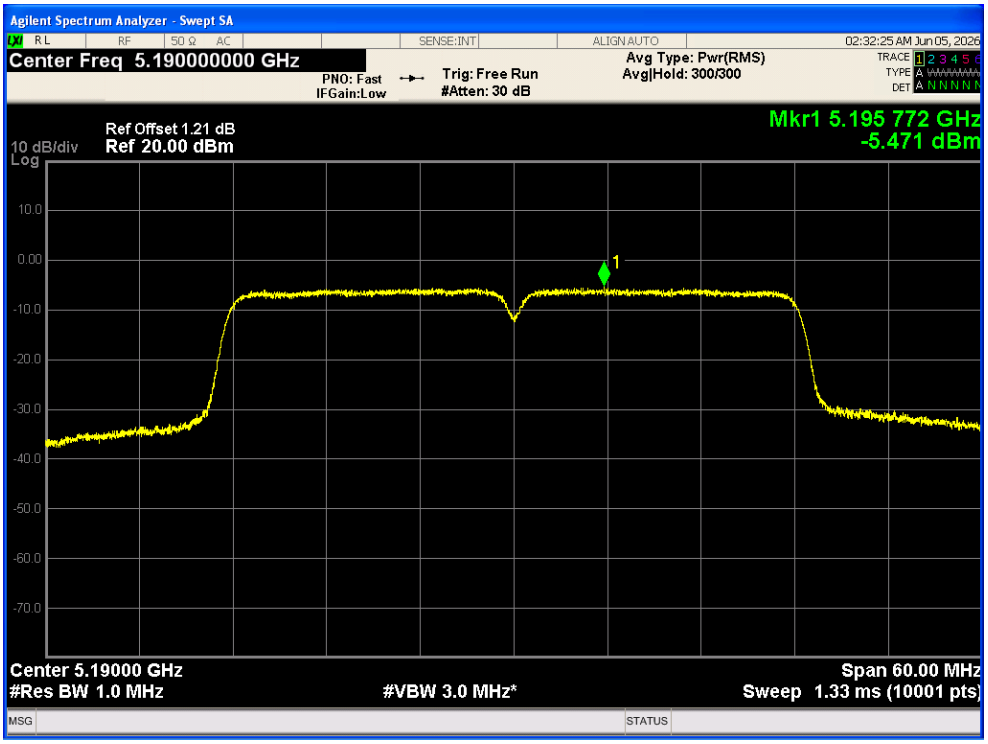
PSD NVNT n20 5200MHz Ant1



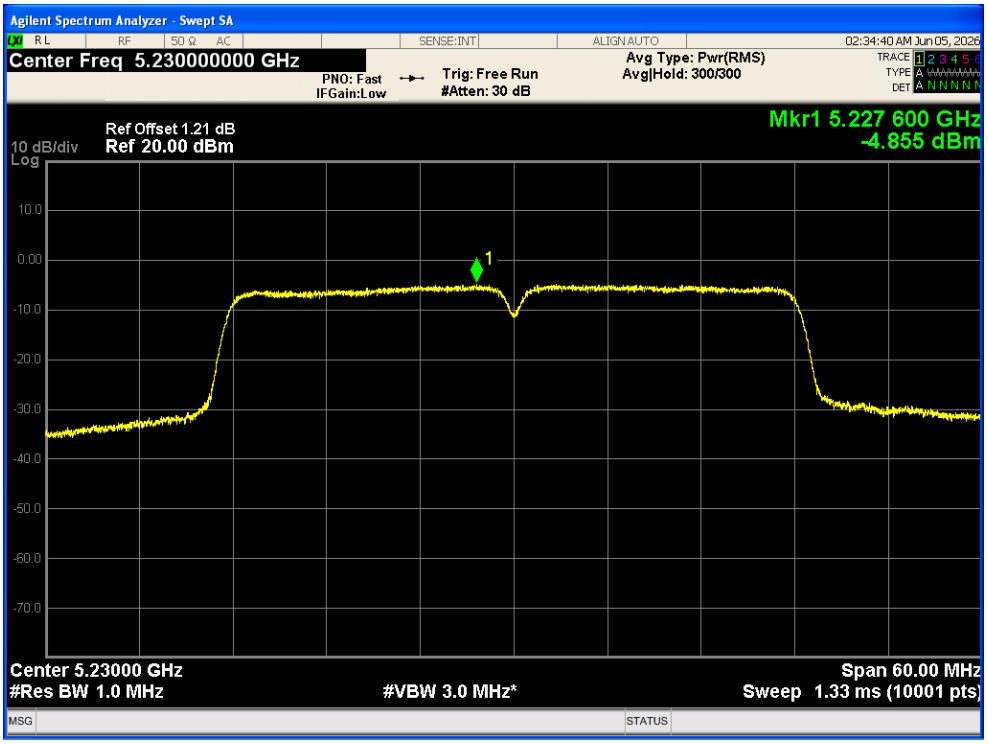
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



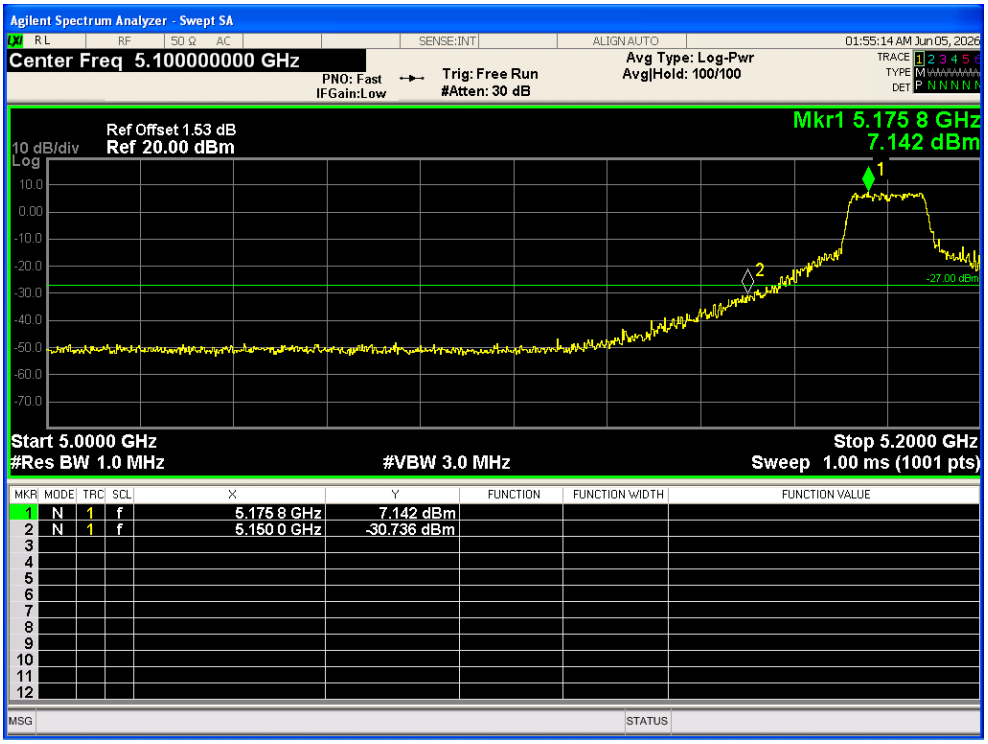
PSD NVNT n40 5230MHz Ant1



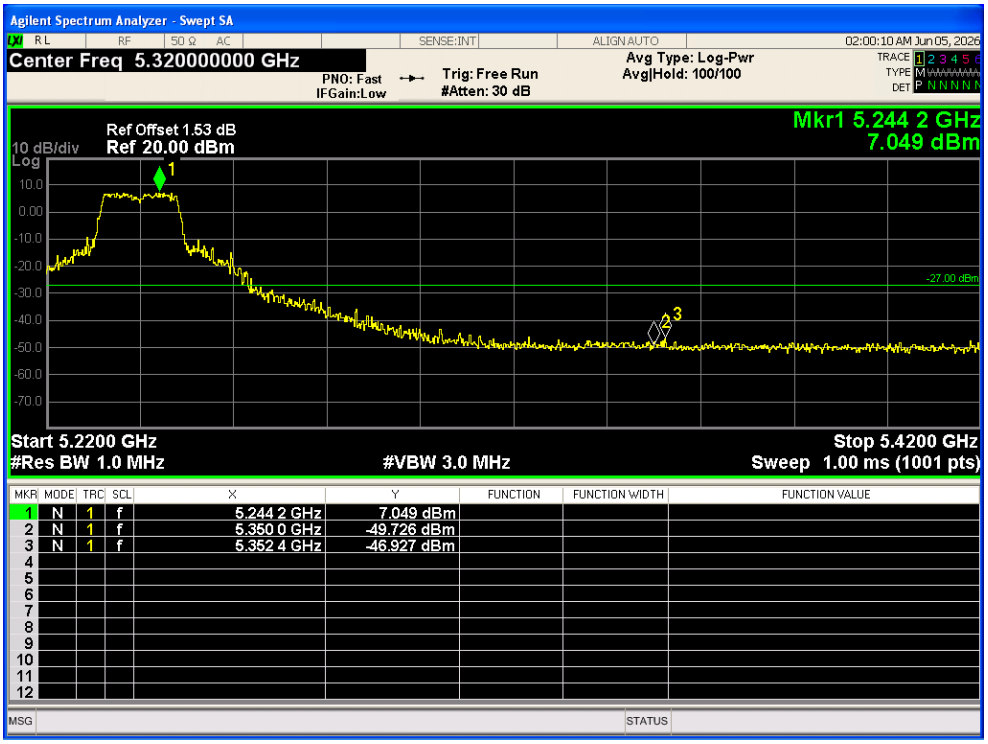
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-30.73	-27	Pass
NVNT	a	5240	Ant1	-46.92	-27	Pass
NVNT	ac20	5180	Ant1	-32.92	-27	Pass
NVNT	ac20	5240	Ant1	-47.43	-27	Pass
NVNT	ac40	5190	Ant1	-27.22	-27	Pass
NVNT	ac40	5230	Ant1	-45.31	-27	Pass
NVNT	ac80	5210	Ant1	-37.34	-27	Pass
NVNT	ac80	5210	Ant1	-29.24	-27	Pass
NVNT	n20	5180	Ant1	-31.2	-27	Pass
NVNT	n20	5240	Ant1	-47.42	-27	Pass
NVNT	n40	5190	Ant1	-29.2	-27	Pass
NVNT	n40	5230	Ant1	-44.08	-27	Pass

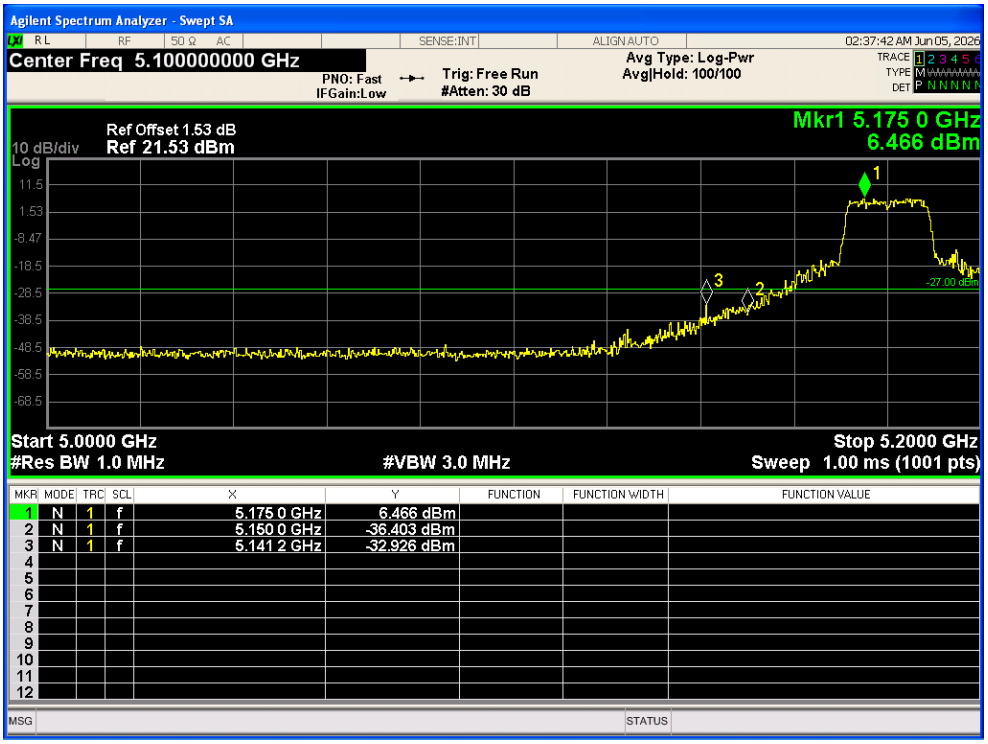
Band Edge NVNT a 5180MHz Low Ant1



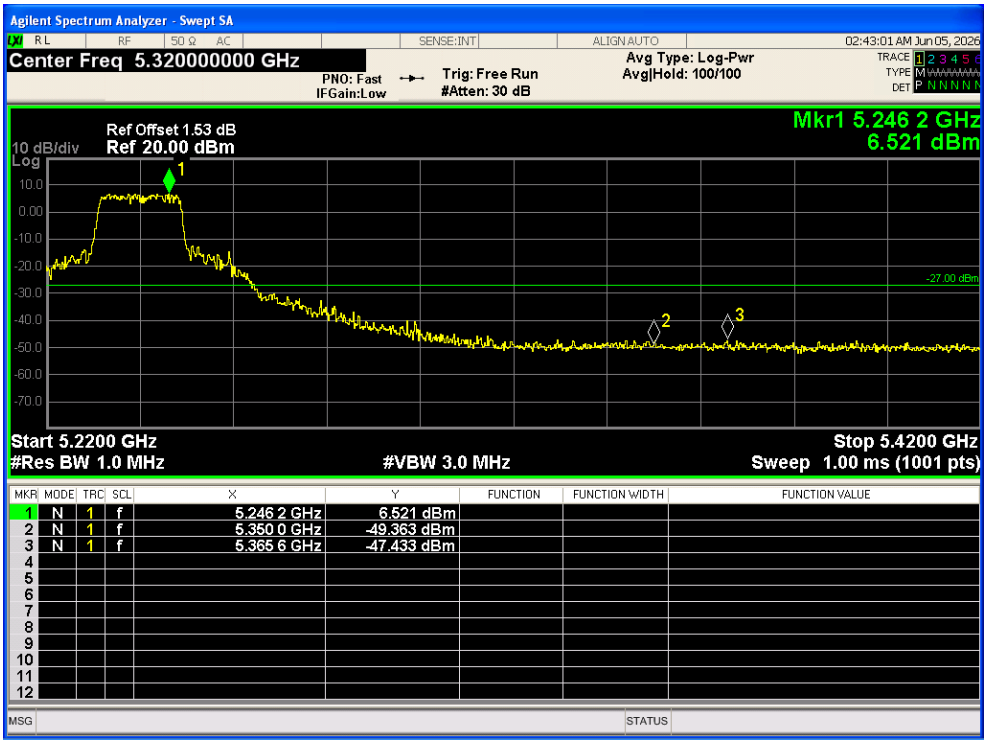
Band Edge NVNT a 5240MHz High Ant1



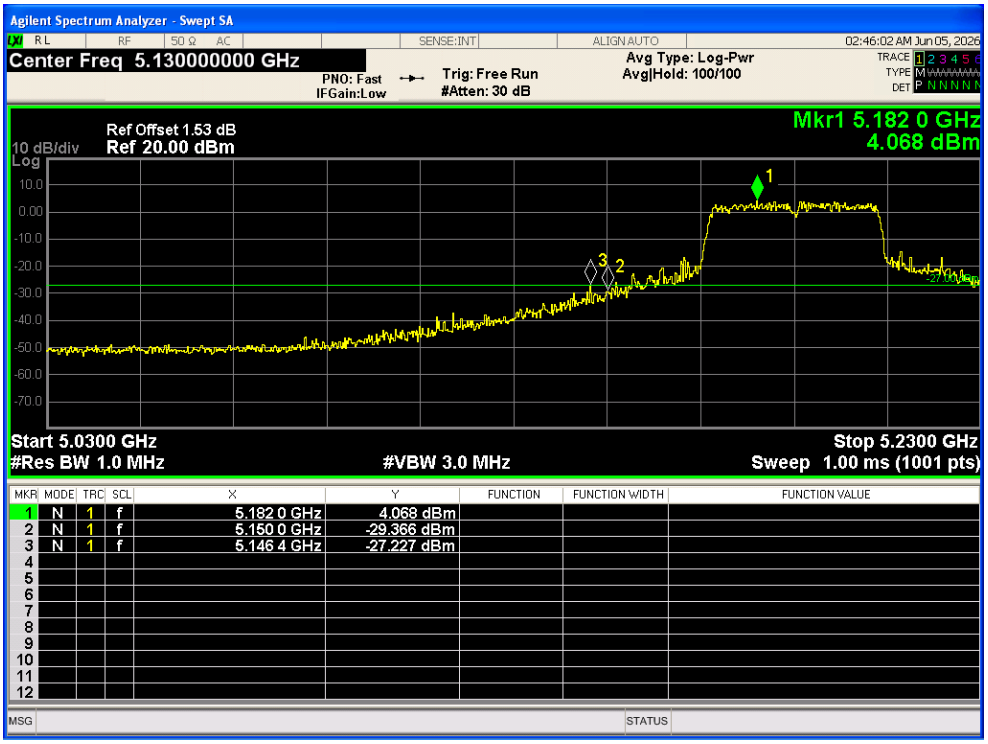
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1

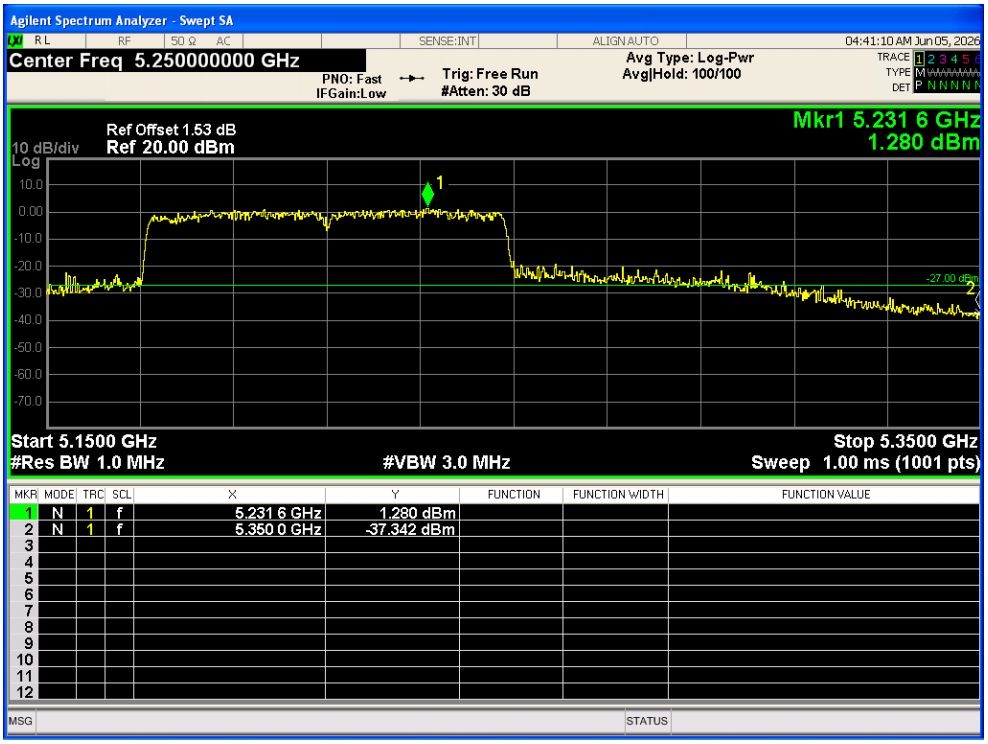


Band Edge NVNT ac40 5190MHz Low Ant1

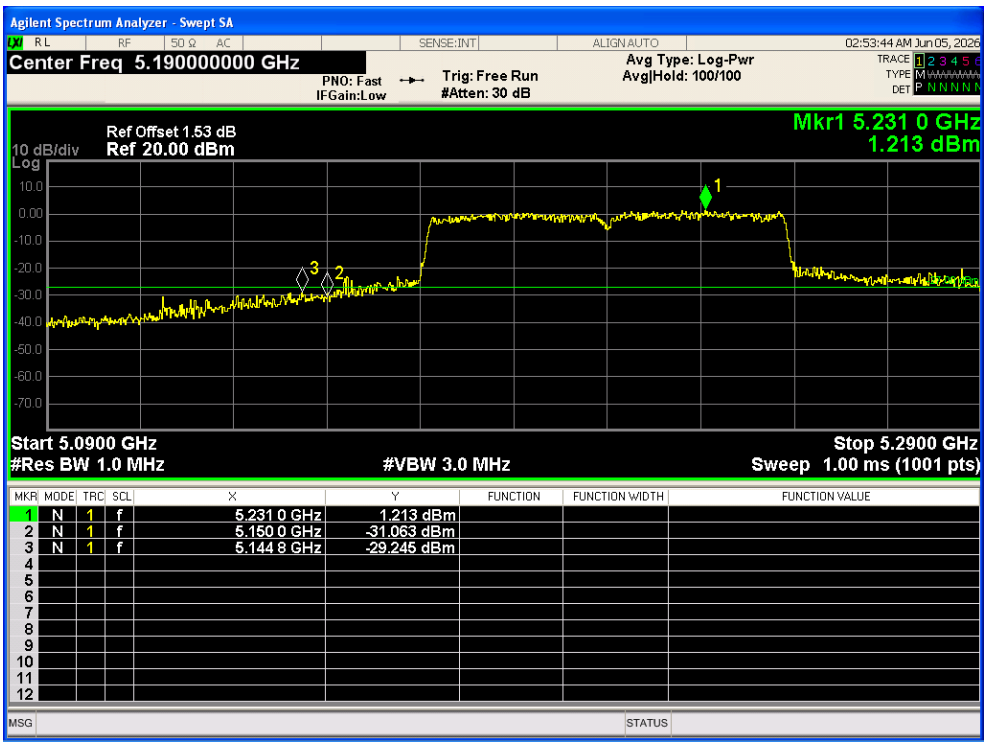


Band Edge NVNT ac40 5230MHz High Ant1

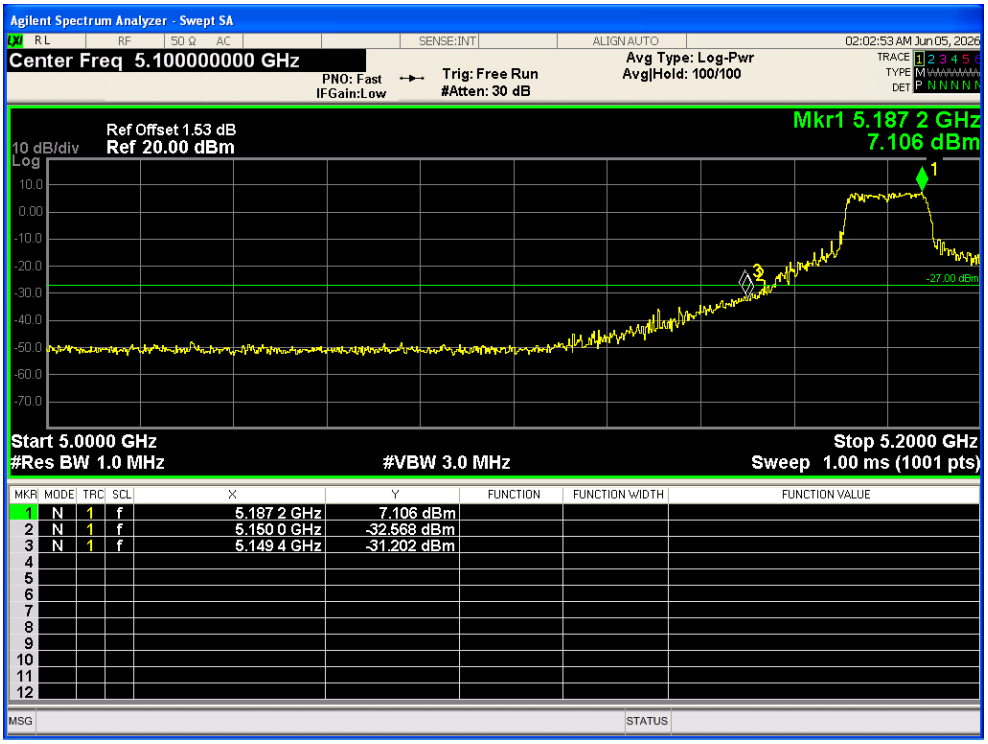
Band Edge NVNT ac80 5210MHz High Ant1



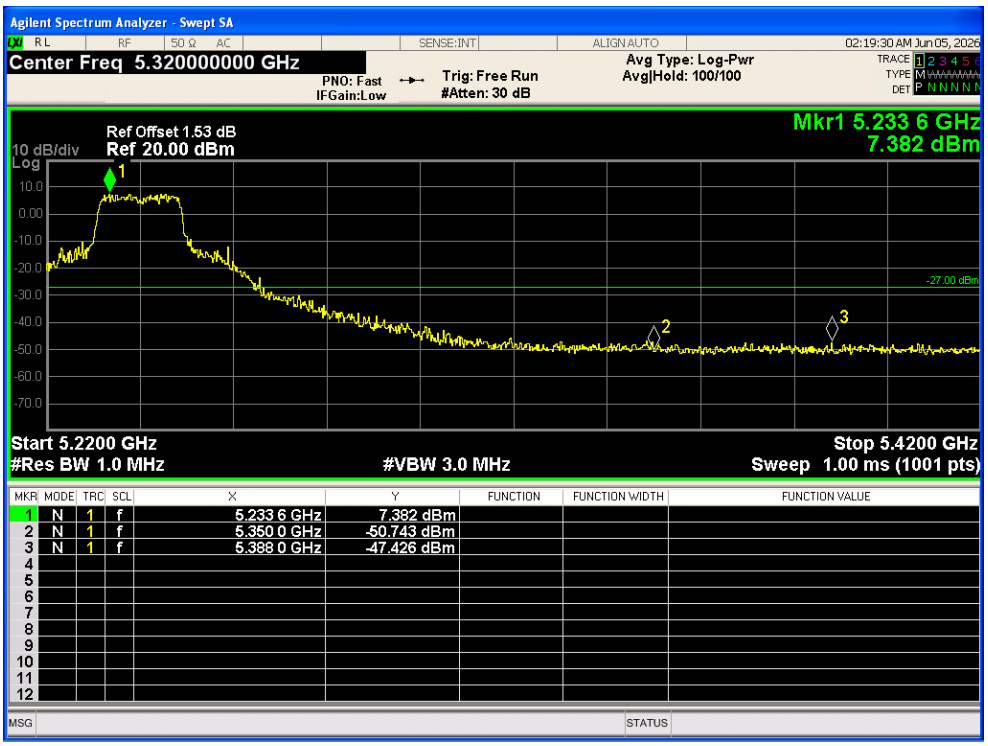
Band Edge NVNT ac80 5210MHz Low Ant1



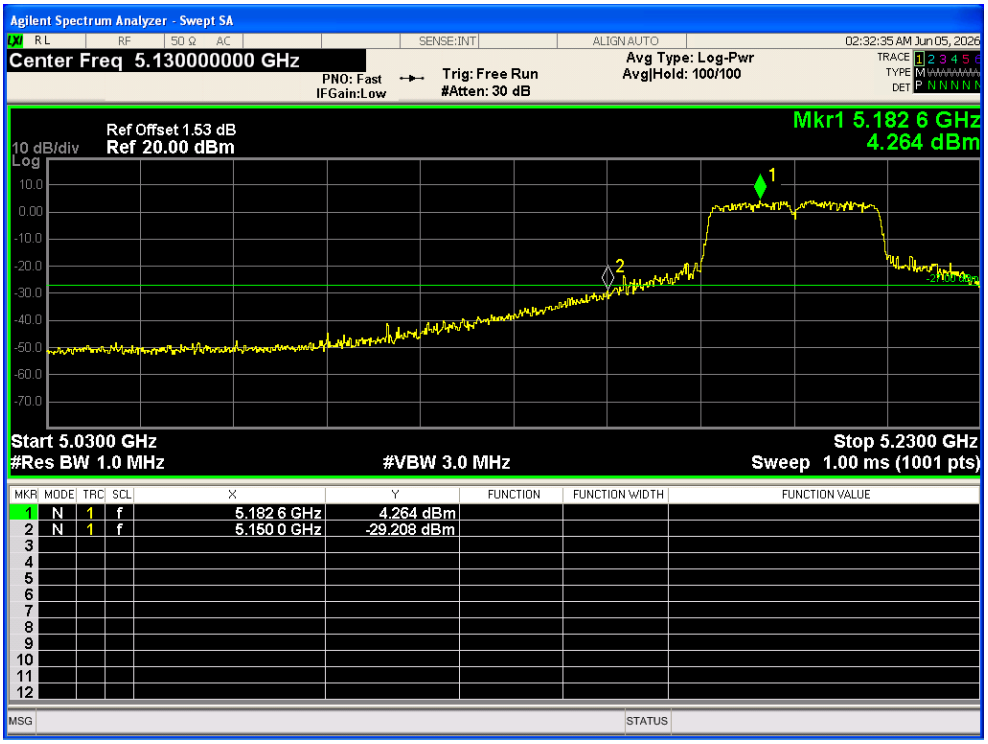
Band Edge NVNT n20 5180MHz Low Ant1



Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



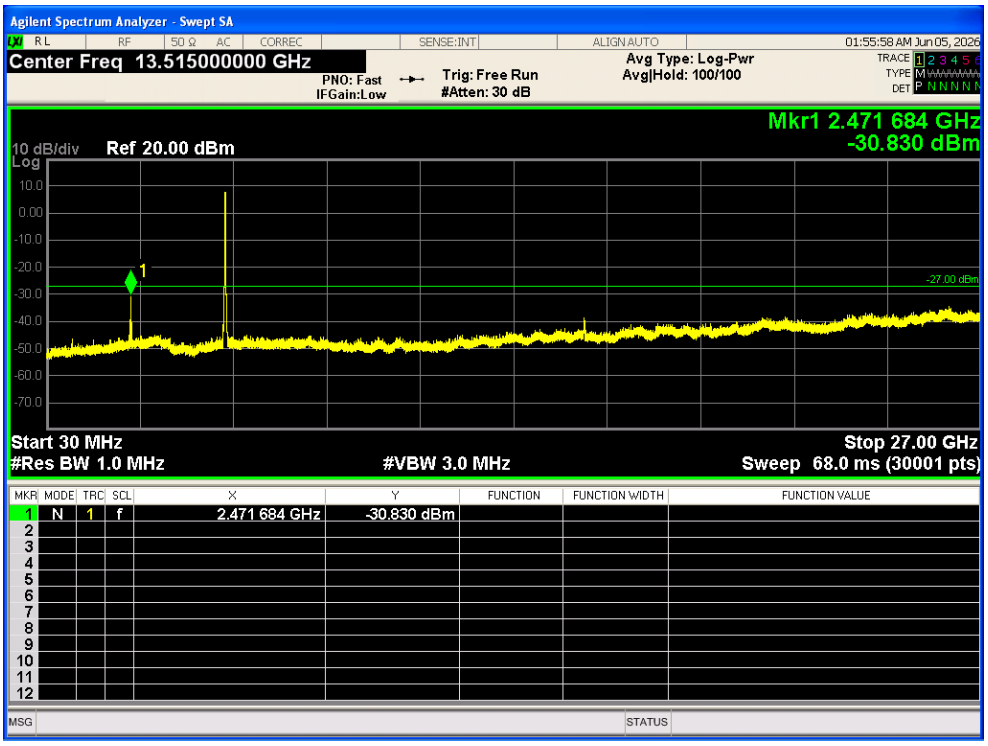
Band Edge NVNT n40 5230MHz High Ant1

Conducted RF Spurious Emission

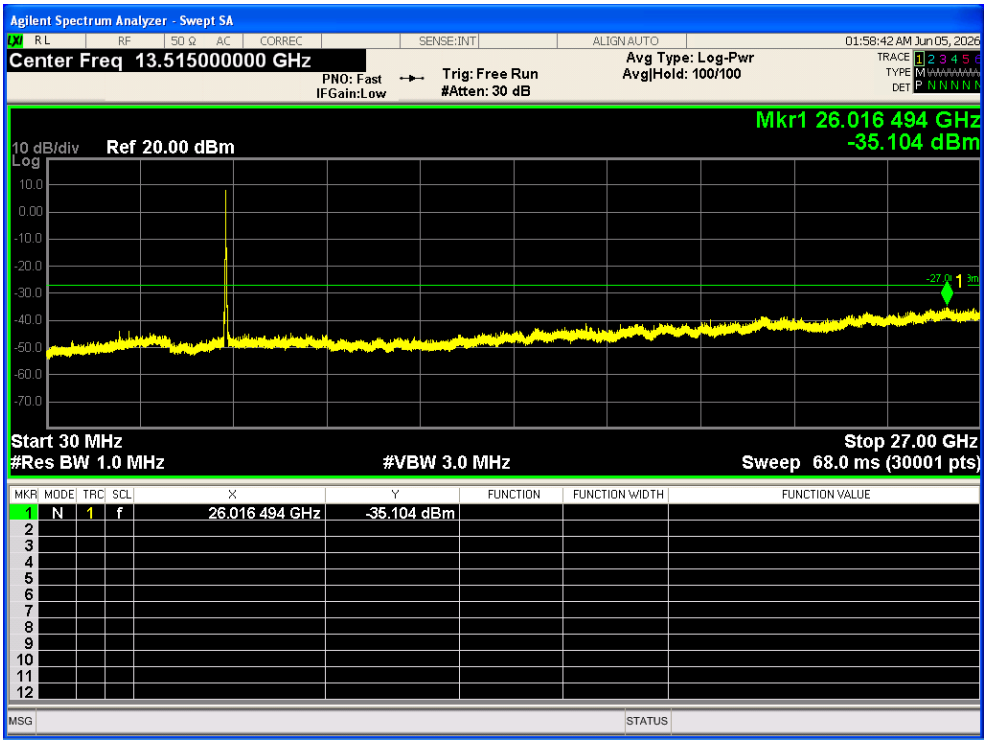
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-30.82	-27	Pass
NVNT	a	5200	Ant1	-35.1	-27	Pass
NVNT	a	5240	Ant1	-34.41	-27	Pass
NVNT	ac20	5180	Ant1	-35.18	-27	Pass
NVNT	ac20	5200	Ant1	-35.04	-27	Pass

NVNT	ac20	5240	Ant1	-35	-27	Pass
NVNT	ac40	5190	Ant1	-34.77	-27	Pass
NVNT	ac40	5230	Ant1	-34.73	-27	Pass
NVNT	ac80	5210	Ant1	-42.95	-27	Pass
NVNT	n20	5180	Ant1	-34.8	-27	Pass
NVNT	n20	5200	Ant1	-35.1	-27	Pass
NVNT	n20	5240	Ant1	-34.34	-27	Pass
NVNT	n40	5190	Ant1	-35.36	-27	Pass
NVNT	n40	5230	Ant1	-35.24	-27	Pass

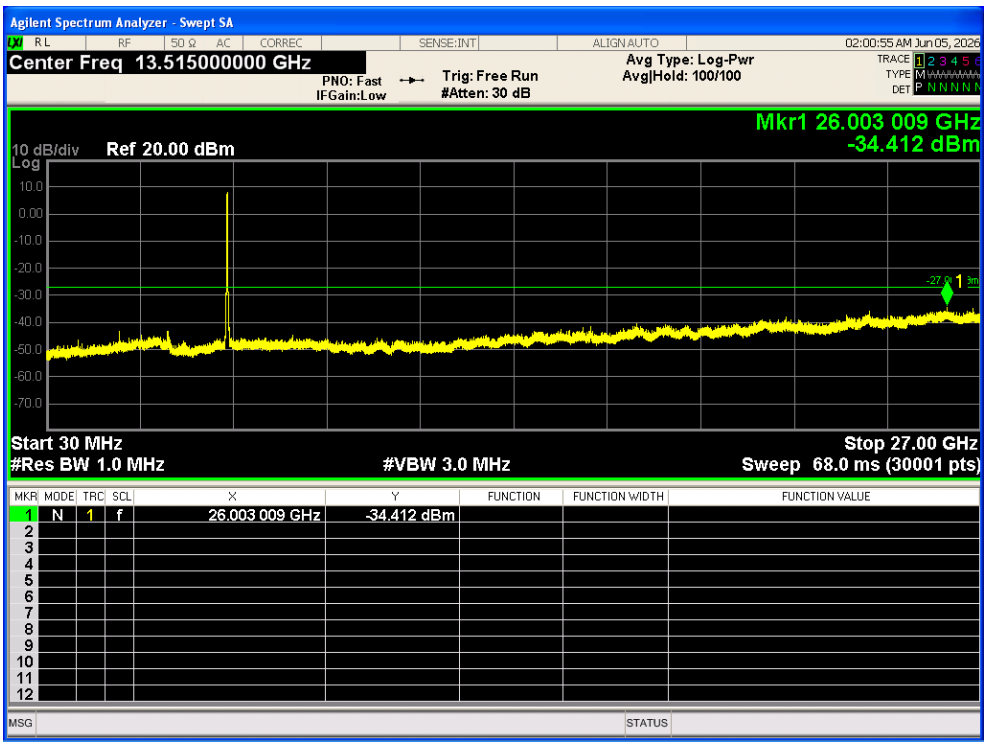
Tx. Spurious NVNT a 5180MHz Ant1 Emission



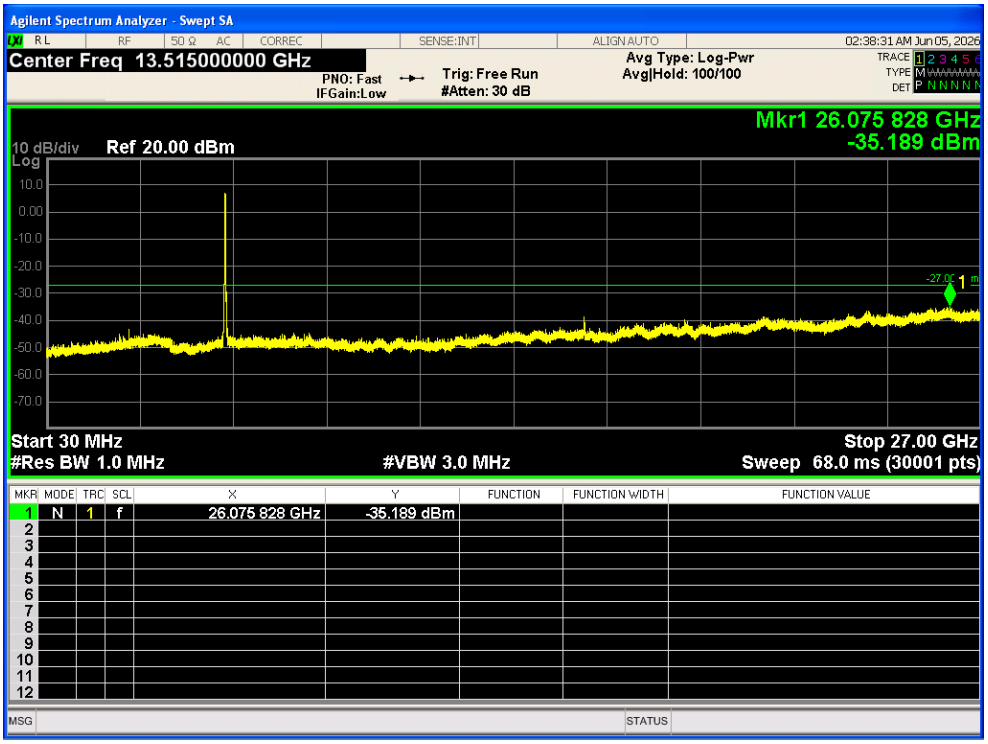
Tx. Spurious NVNT a 5200MHz Ant1 Emission



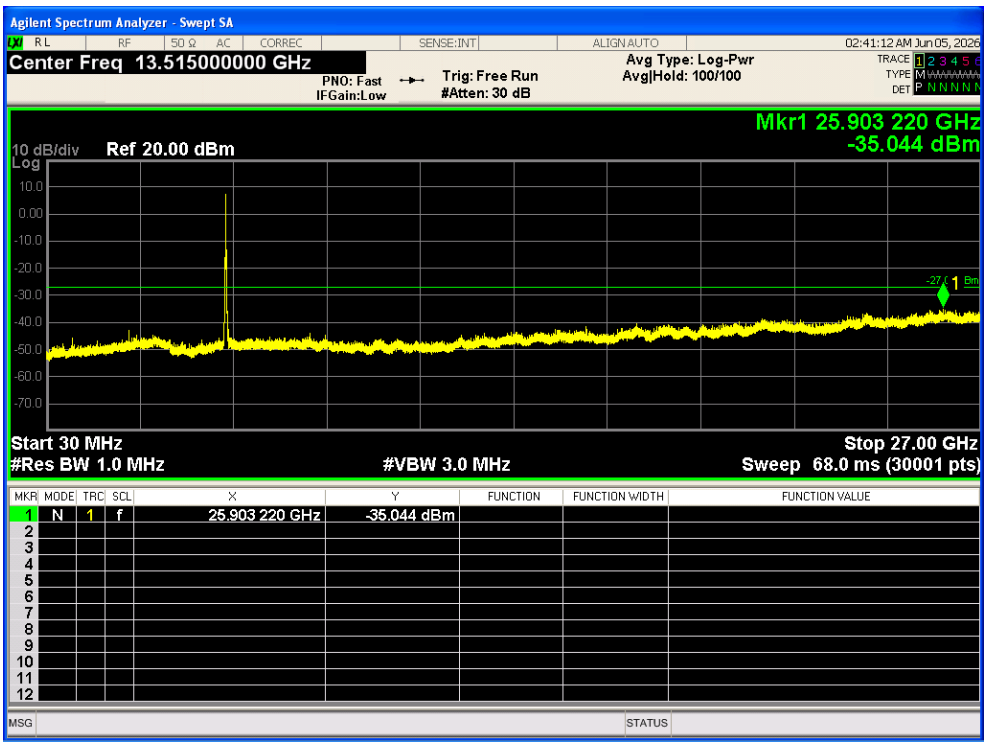
Tx. Spurious NVNT a 5240MHz Ant1 Emission



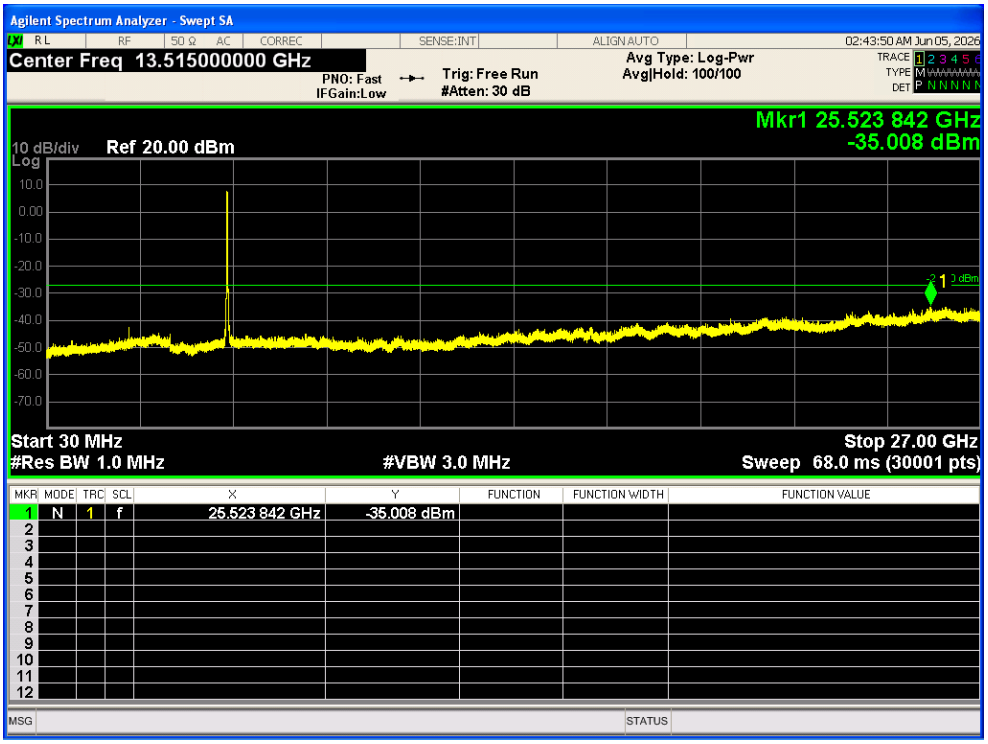
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



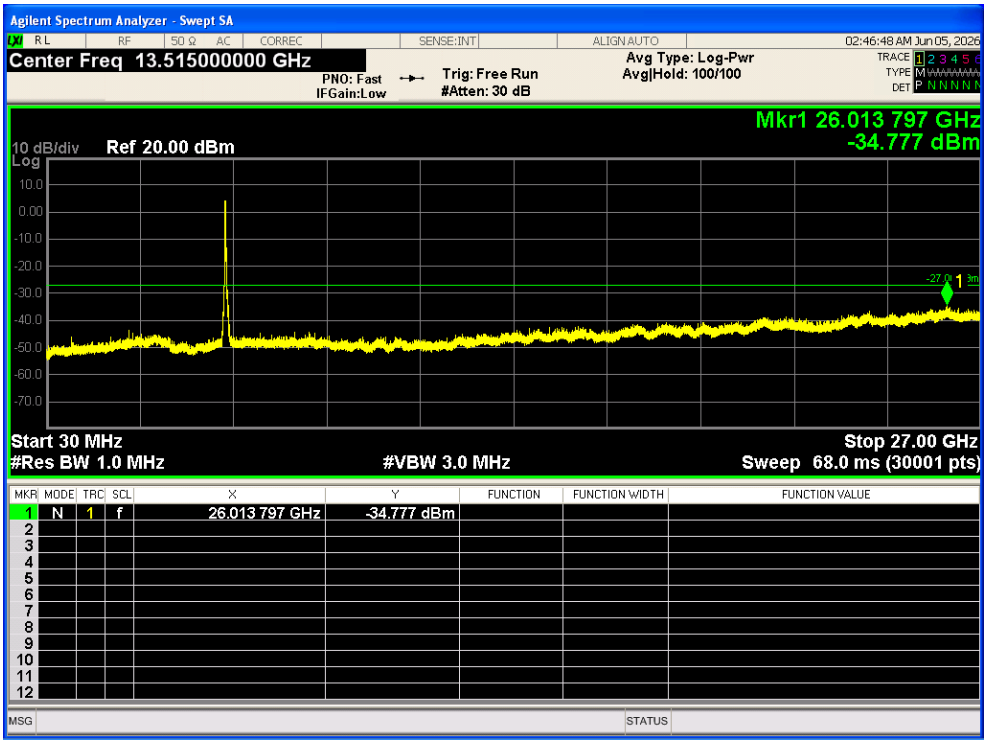
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



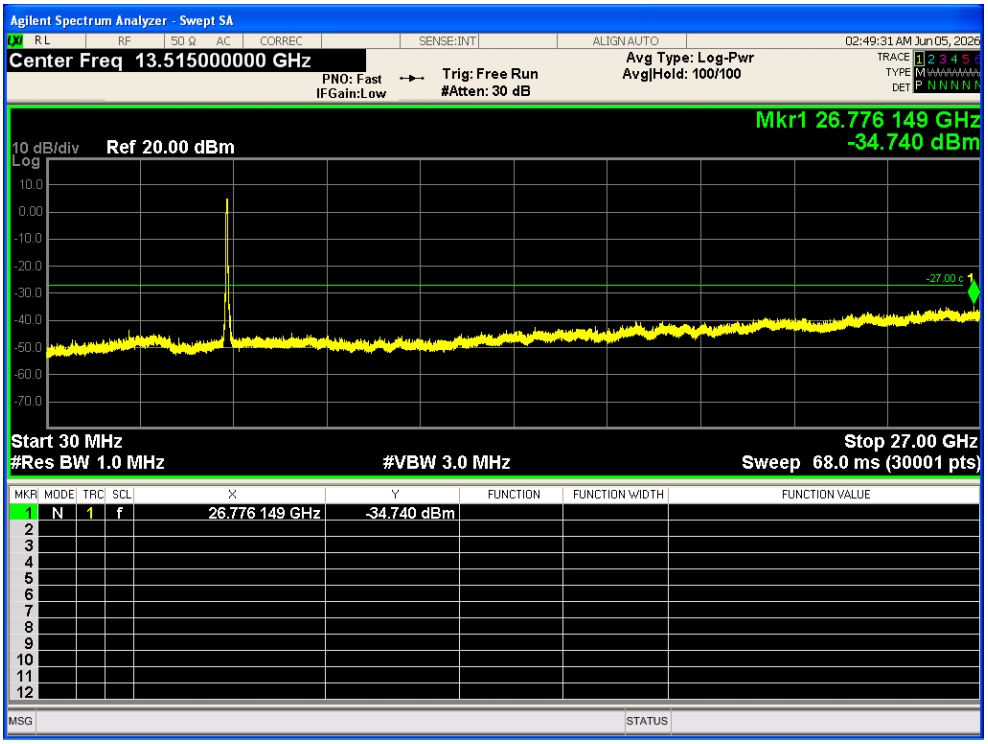
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



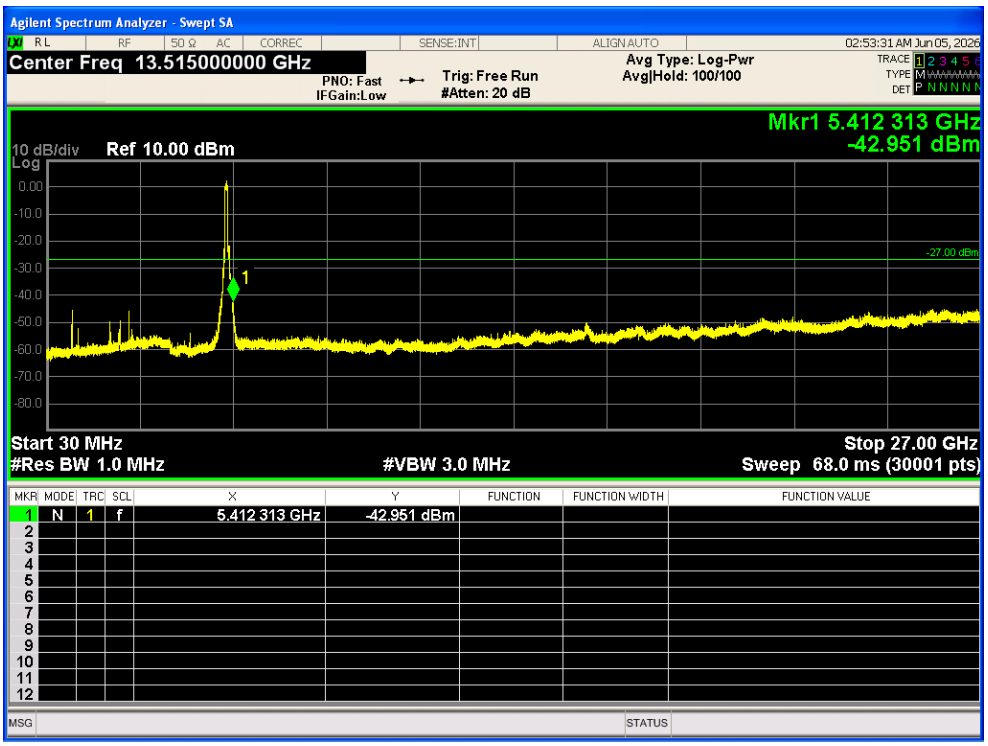
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



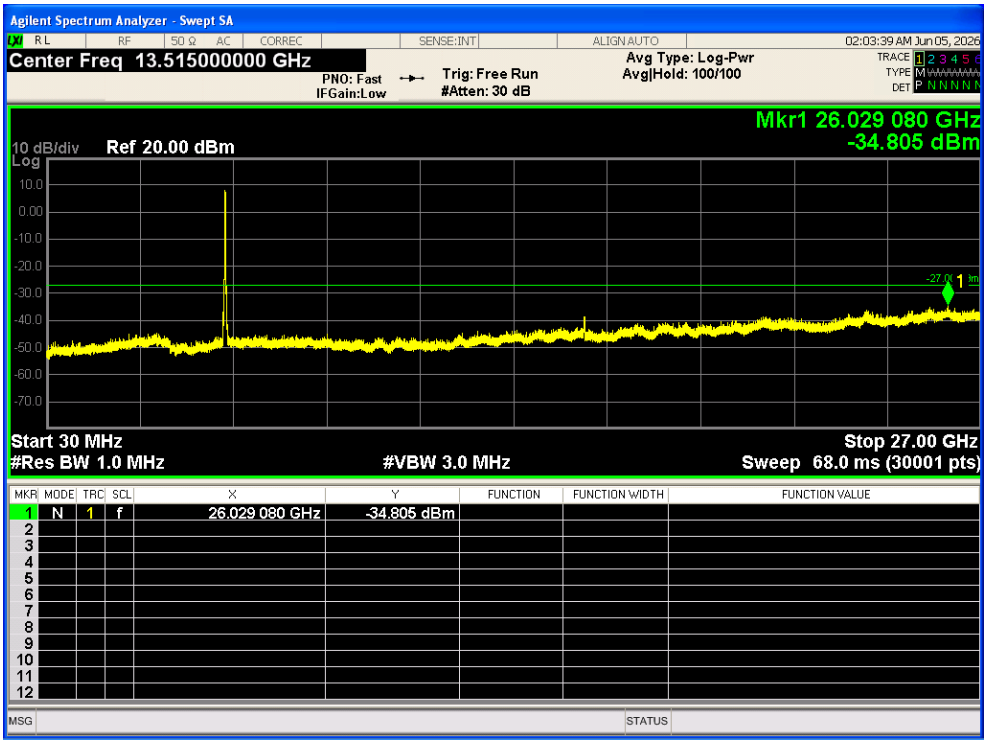
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



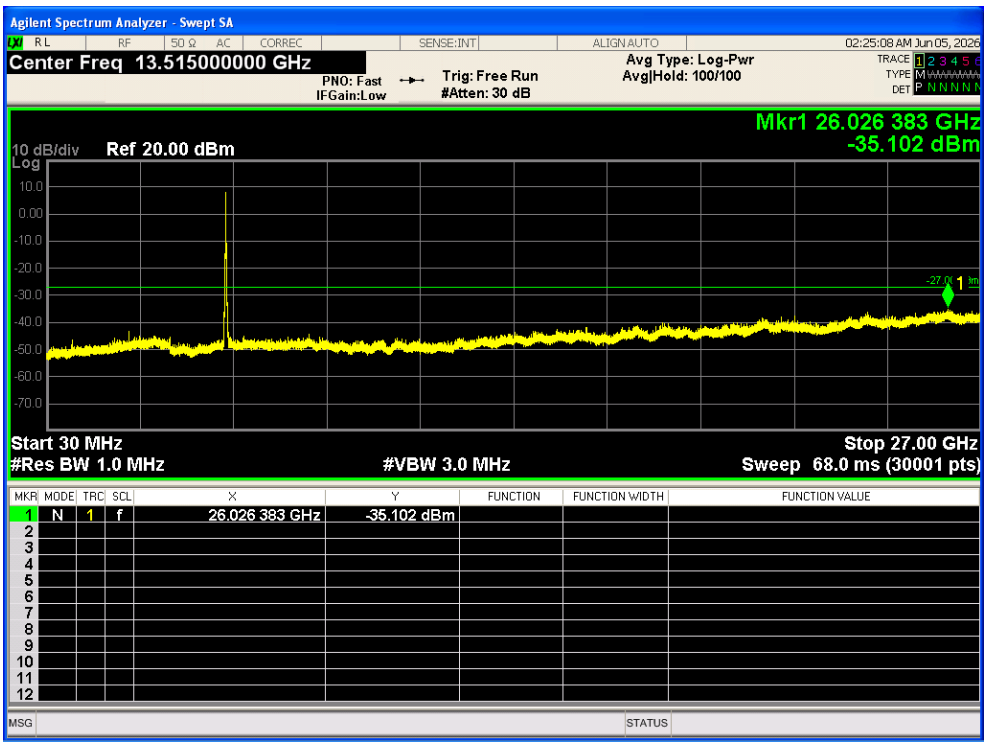
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



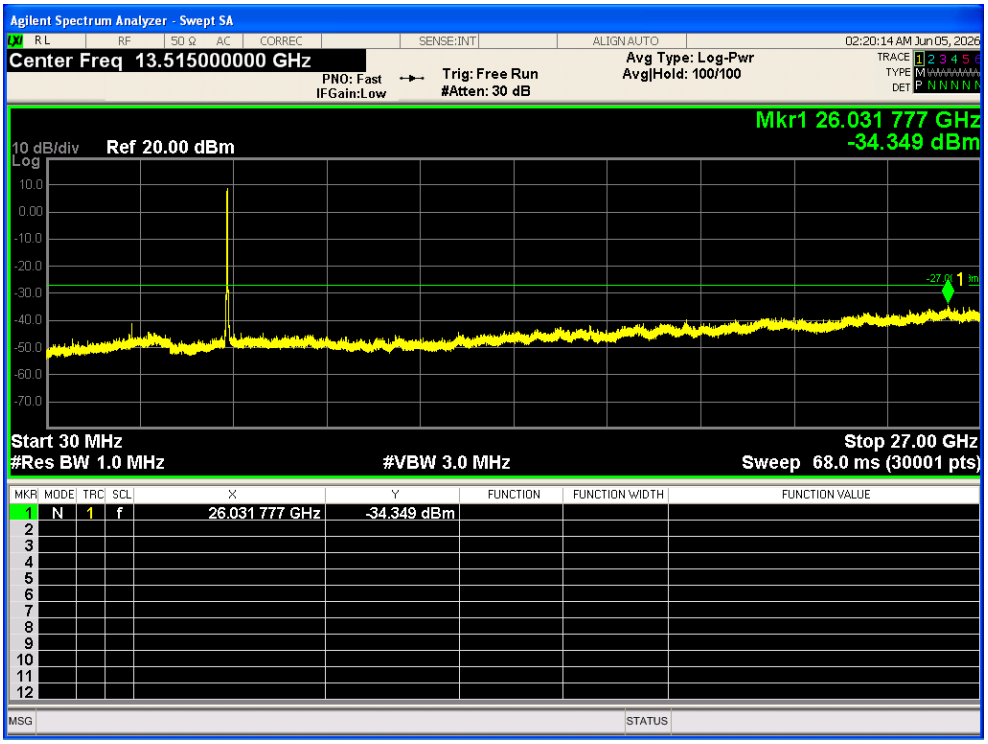
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



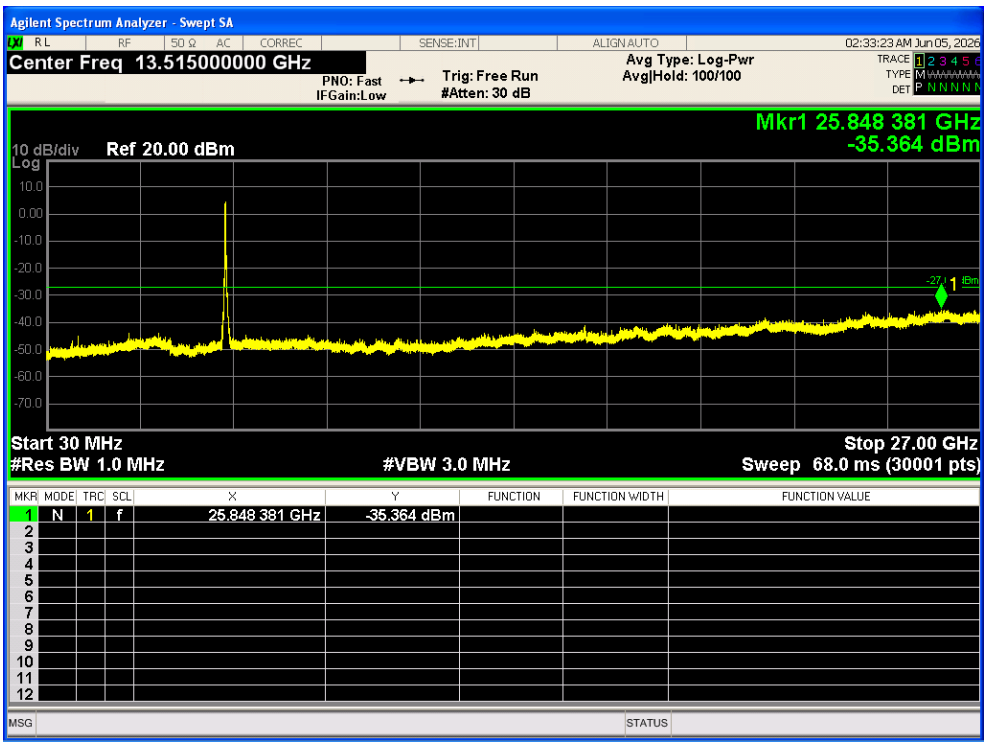
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



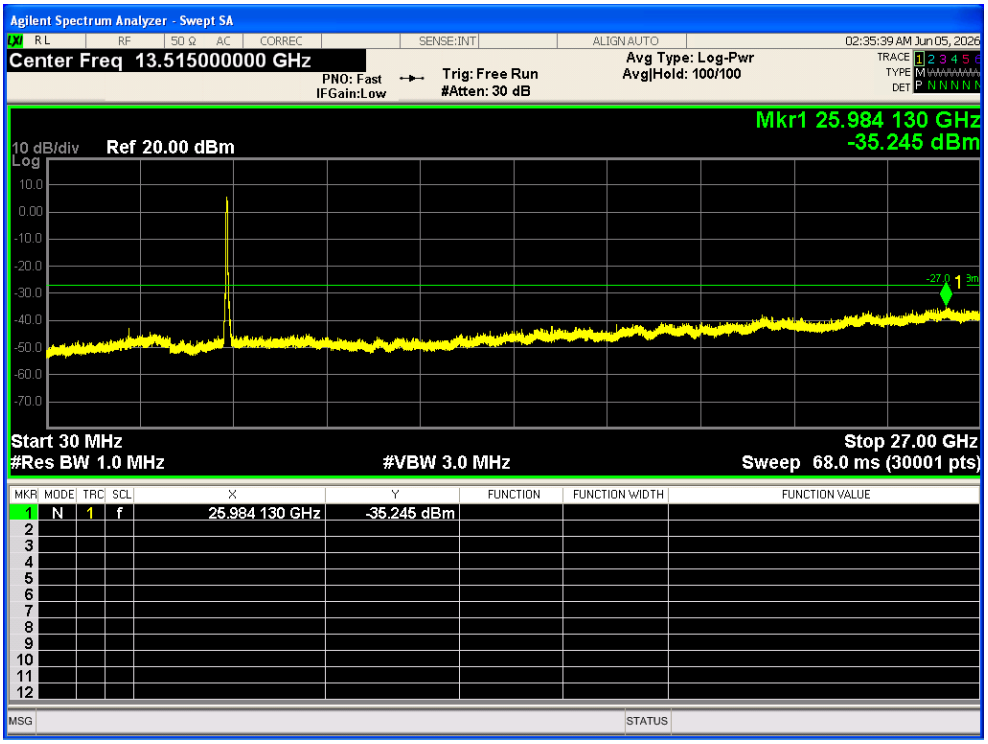
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission

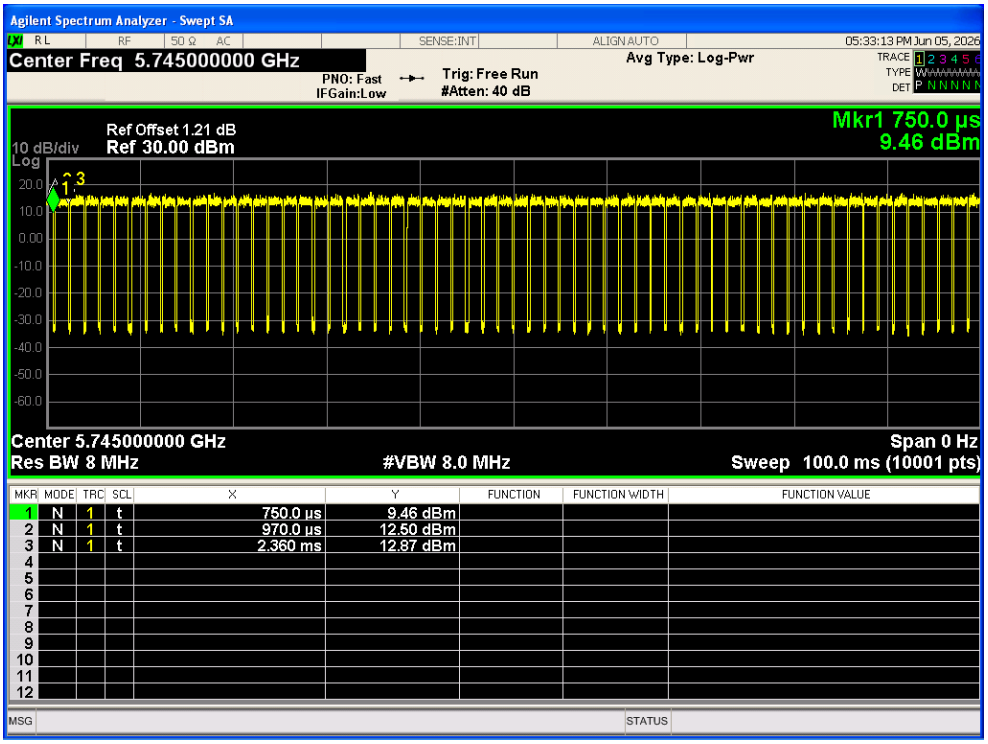

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
02:35:39 AM Jun 05, 2026
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 25.984 130 GHz
-35.245 dBm
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-27.0
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 68.0 ms (30001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 25.984 130 GHz -35.245 dBm
2
3
4
5
6
7
8
9
10
11
12
MSG
STATUS

WIFI 5.8G

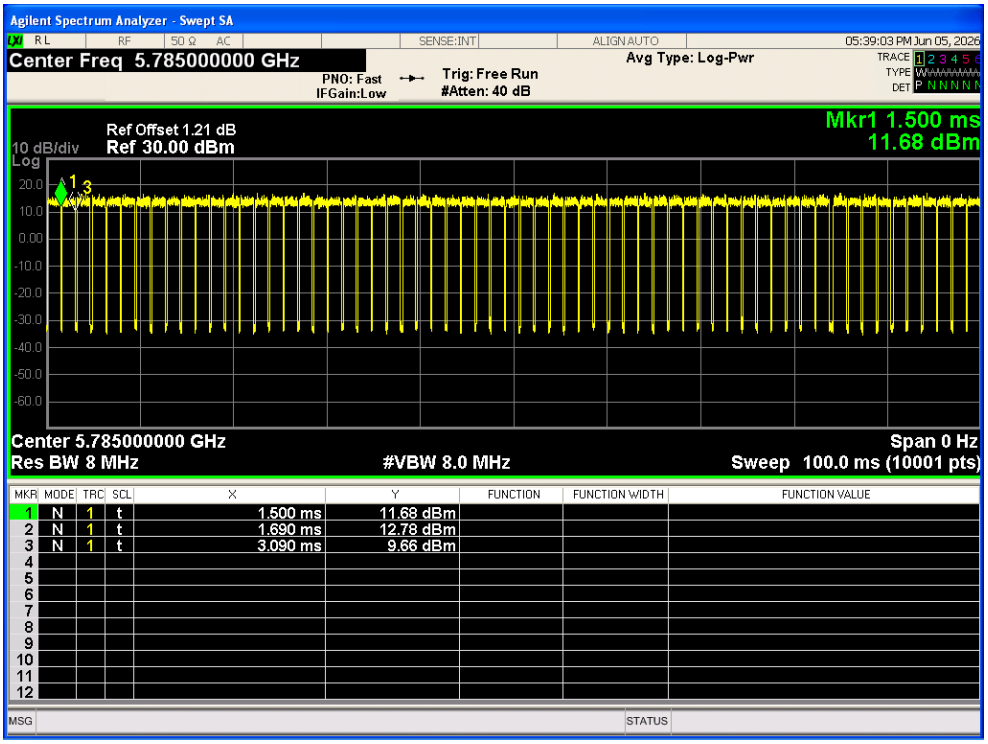
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	86.23	0.64	0.72
NVNT	a	5785	Ant1	88.34	0.54	0.71
NVNT	a	5825	Ant1	88.81	0.52	0.72
NVNT	ac20	5745	Ant1	84.2	0.75	0.85
NVNT	ac20	5785	Ant1	86.73	0.62	0.84
NVNT	ac20	5825	Ant1	87.11	0.6	0.85
NVNT	ac40	5755	Ant1	76.75	1.15	1.69
NVNT	ac40	5795	Ant1	76.73	1.15	1.67
NVNT	ac80	5775	Ant1	52.07	2.83	3.85
NVNT	n20	5745	Ant1	86.92	0.61	0.85
NVNT	n20	5785	Ant1	87.03	0.6	0.85
NVNT	n20	5825	Ant1	87.22	0.59	0.85
NVNT	n40	5755	Ant1	76.41	1.17	1.69
NVNT	n40	5795	Ant1	76.57	1.16	1.69

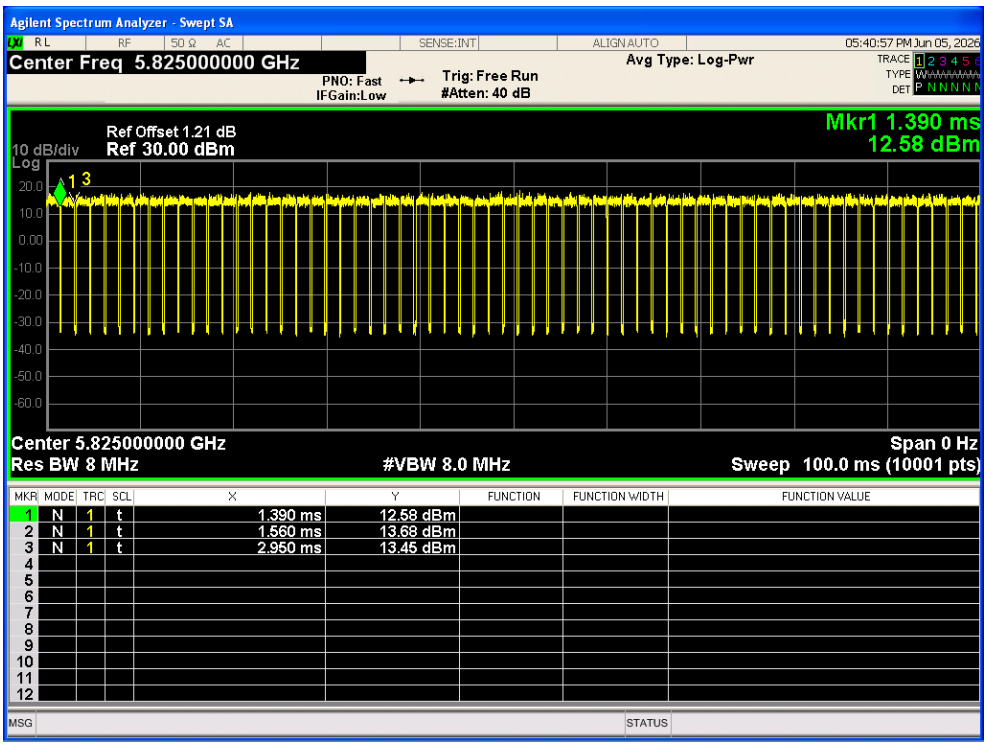
Duty Cycle NVNT a 5745MHz Ant1



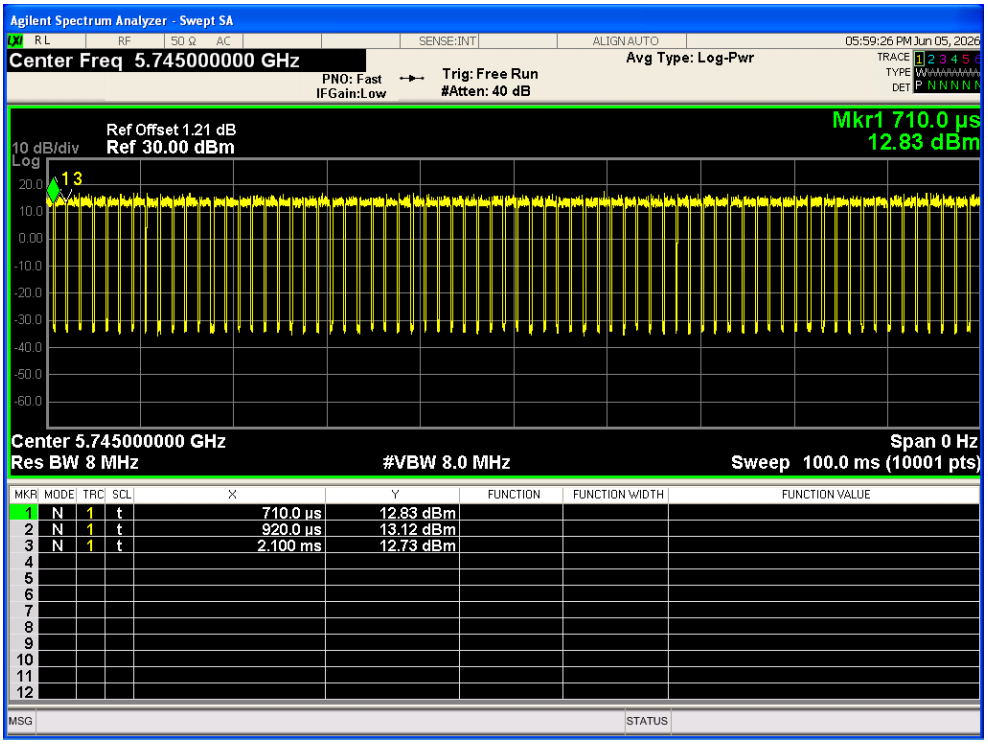
Duty Cycle NVNT a 5785MHz Ant1



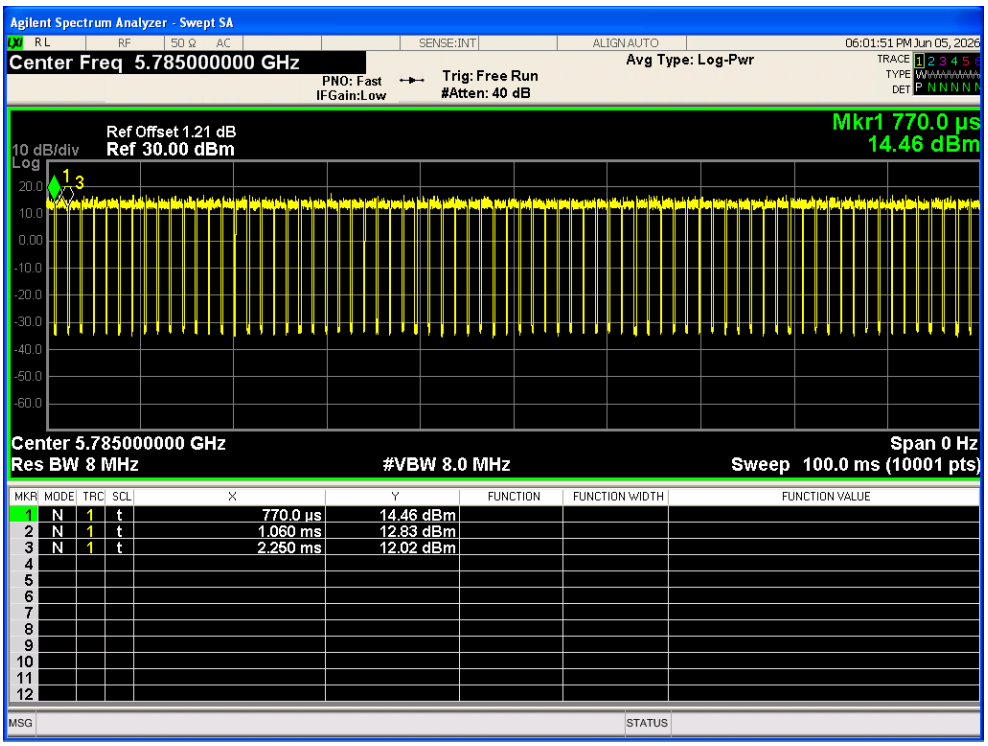
Duty Cycle NVNT a 5825MHz Ant1



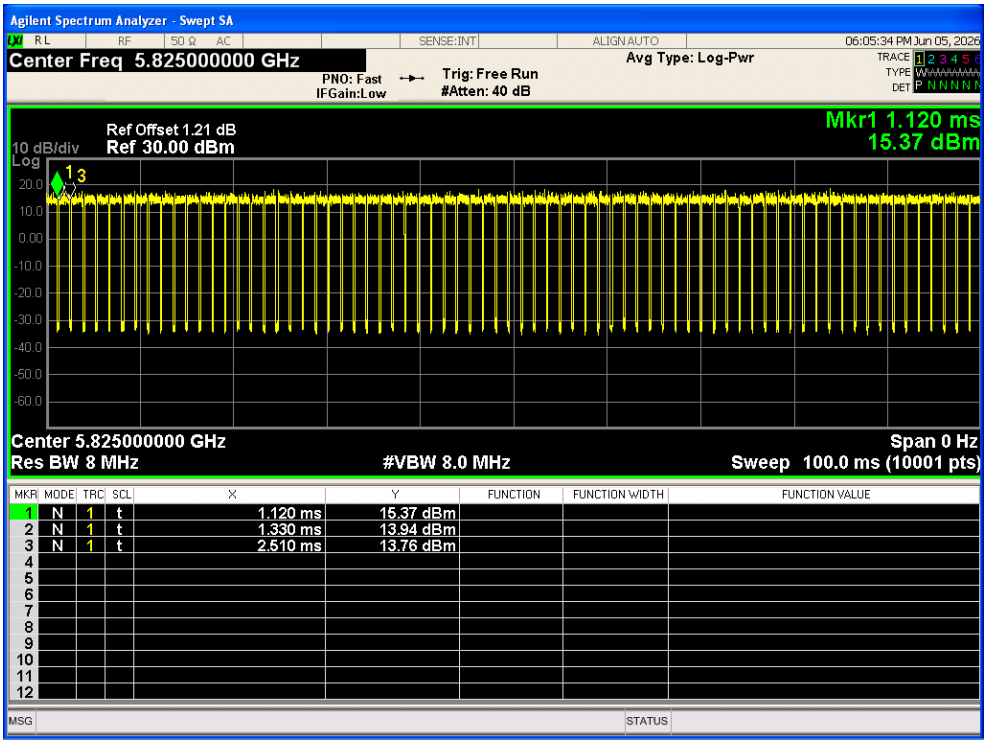
Duty Cycle NVNT ac20 5745MHz Ant1



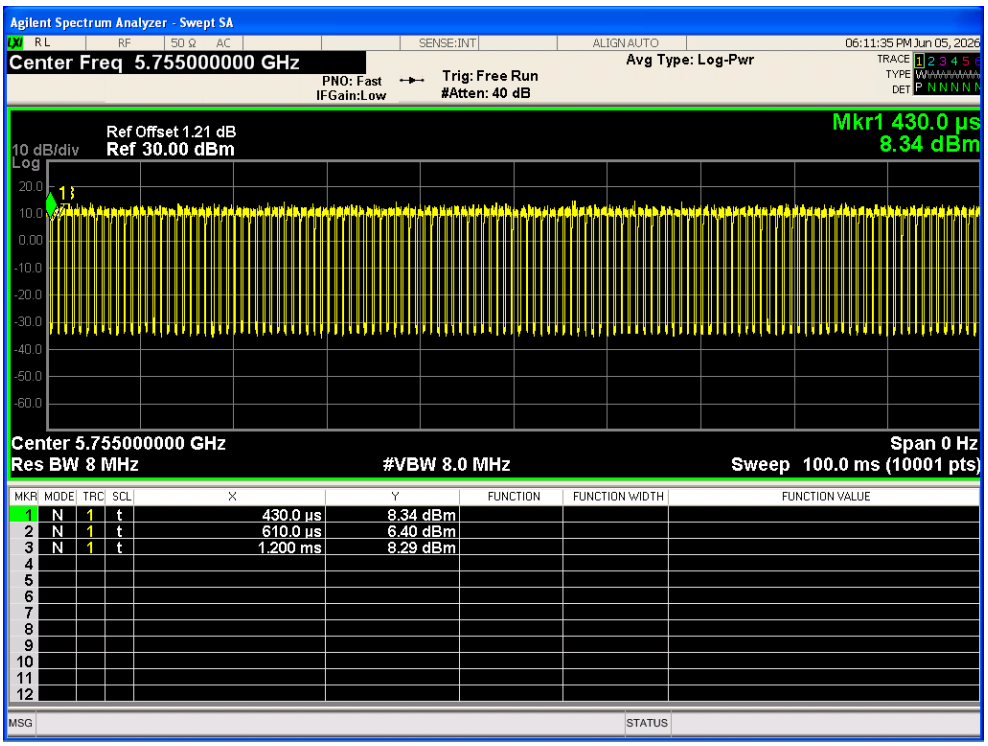
Duty Cycle NVNT ac20 5785MHz Ant1



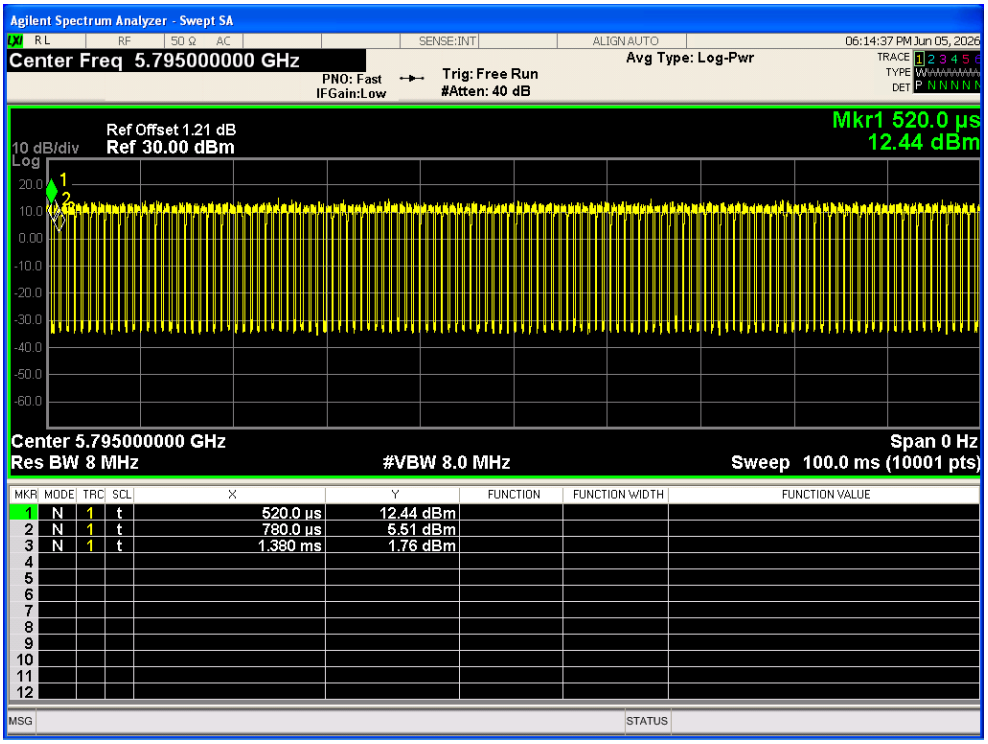
Duty Cycle NVNT ac20 5825MHz Ant1



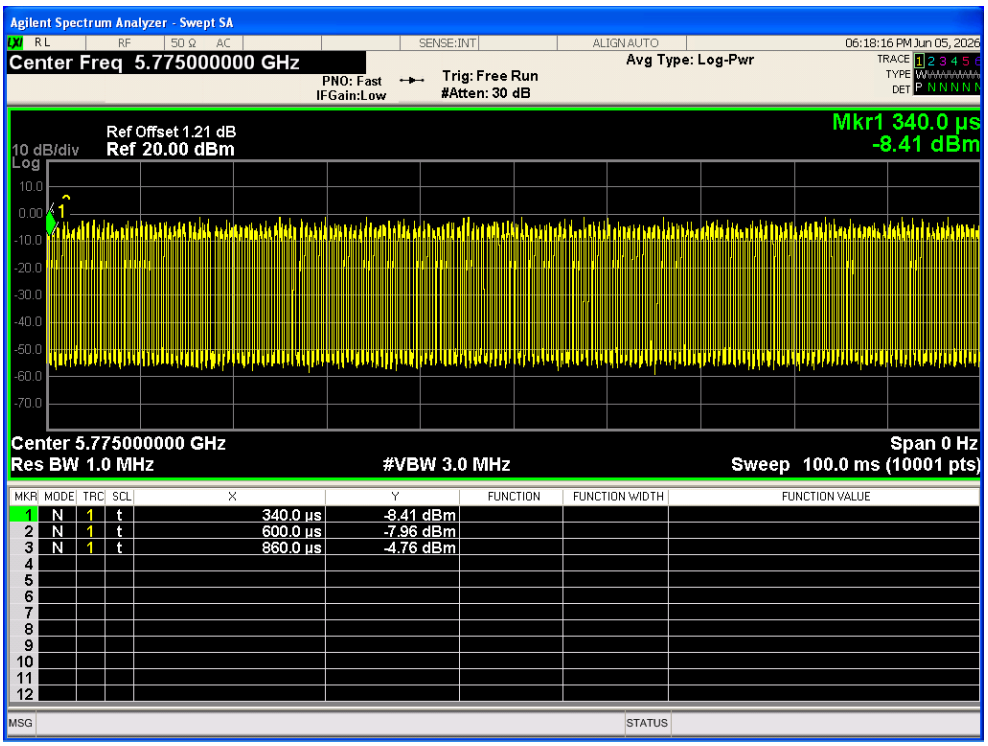
Duty Cycle NVNT ac40 5755MHz Ant1



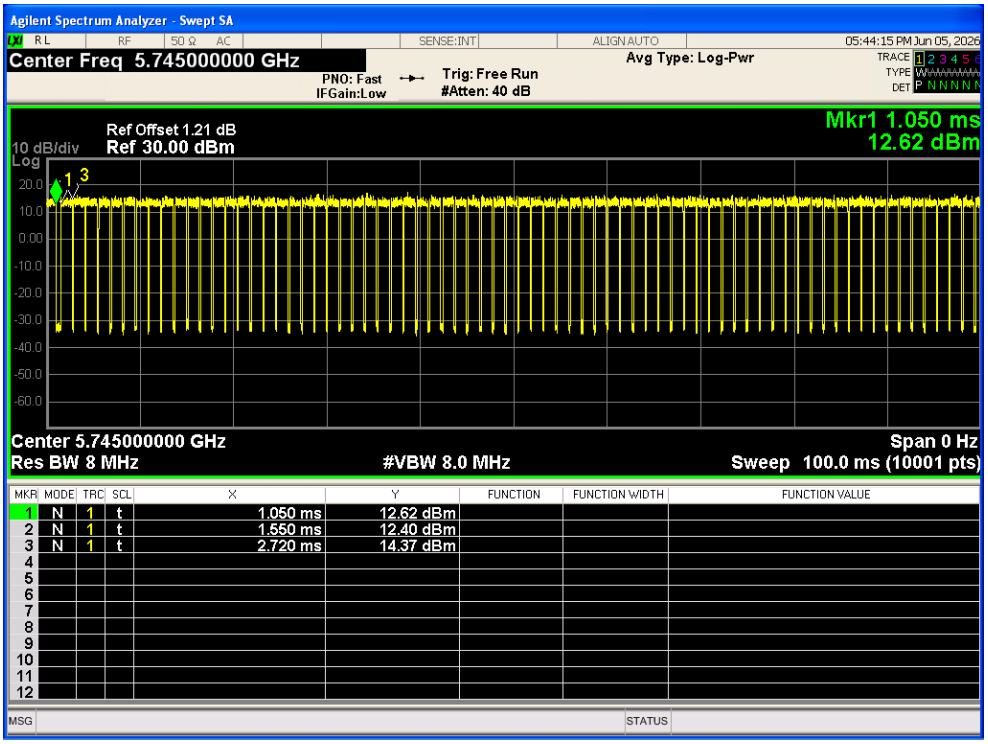
Duty Cycle NVNT ac40 5795MHz Ant1



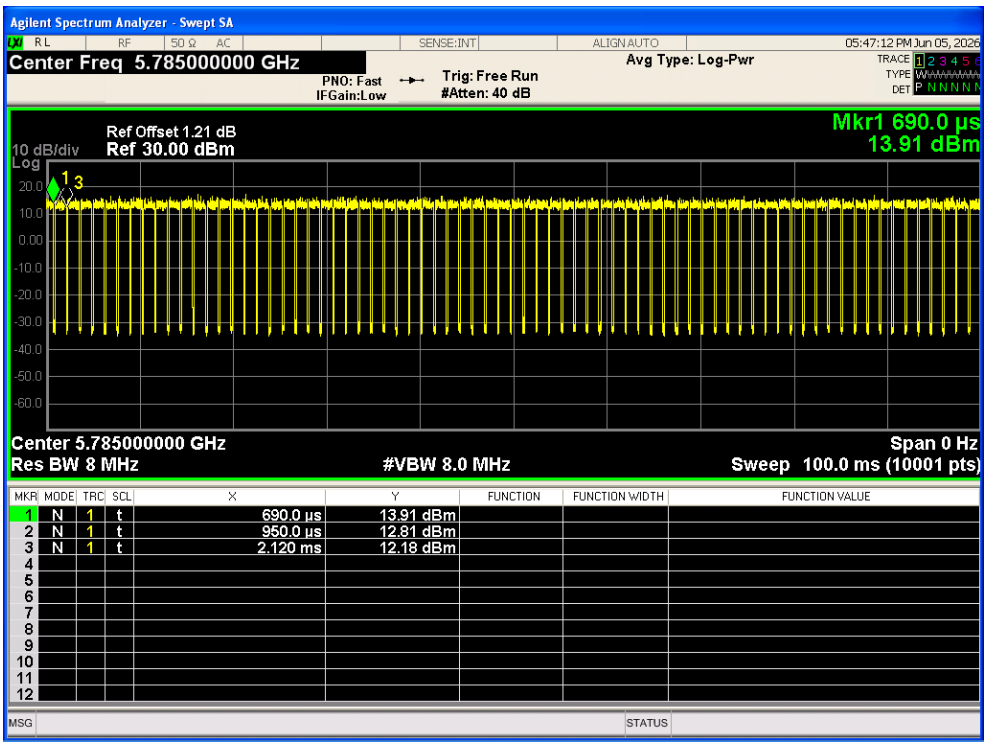
Duty Cycle NVNT ac80 5775MHz Ant1



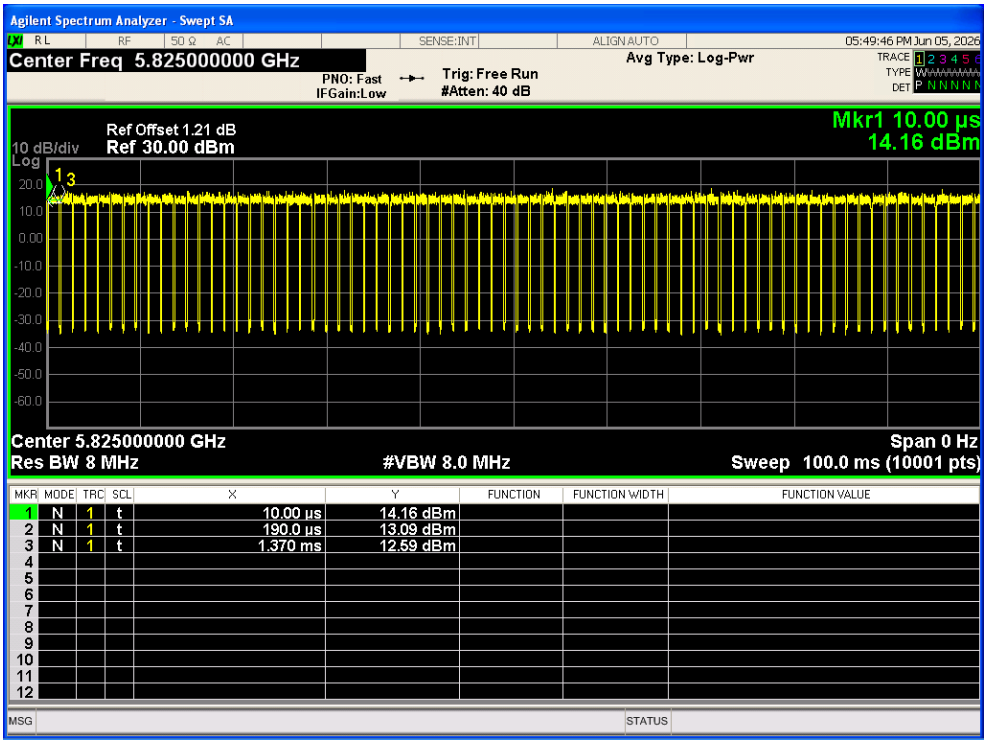
Duty Cycle NVNT n20 5745MHz Ant1



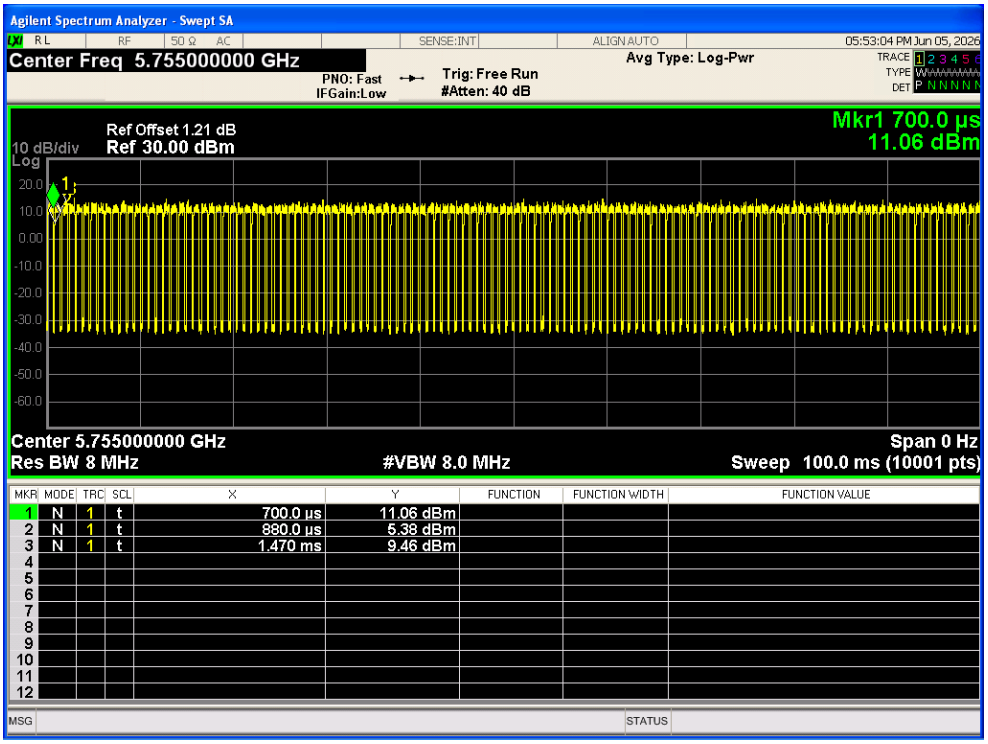
Duty Cycle NVNT n20 5785MHz Ant1



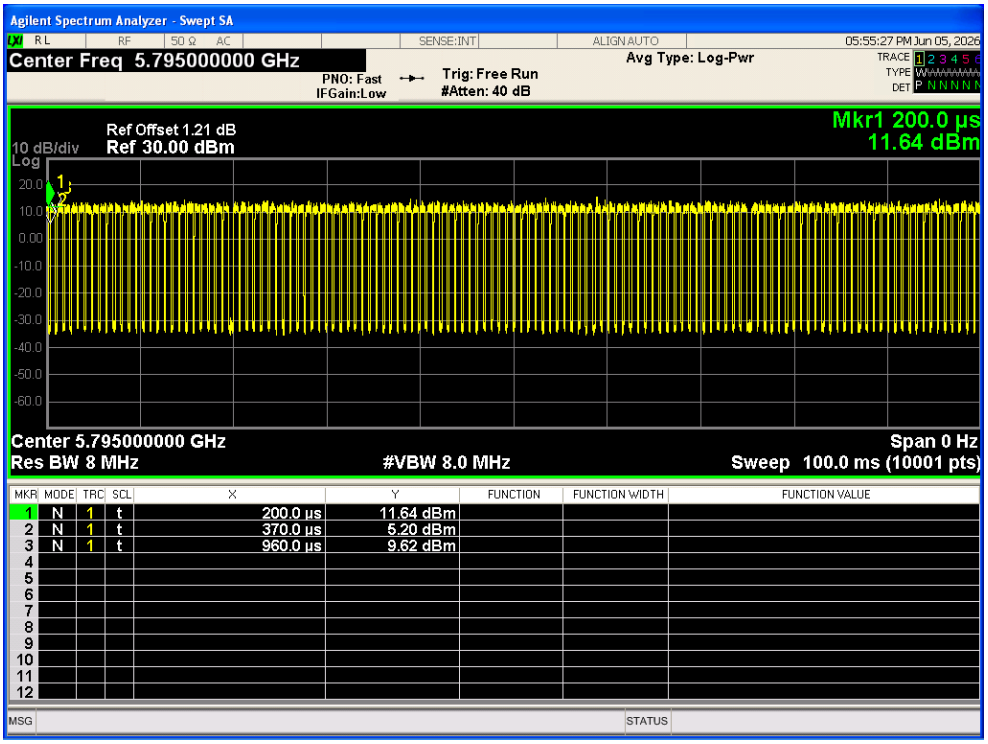
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.892	30	Pass
NVNT	a	5785	Ant1	9.663	30	Pass
NVNT	a	5825	Ant1	10.506	30	Pass
NVNT	ac20	5745	Ant1	9.717	30	Pass
NVNT	ac20	5785	Ant1	9.546	30	Pass
NVNT	ac20	5825	Ant1	10.487	30	Pass
NVNT	ac40	5755	Ant1	9.311	30	Pass
NVNT	ac40	5795	Ant1	9.533	30	Pass
NVNT	ac80	5775	Ant1	8.353	30	Pass
NVNT	n20	5745	Ant1	9.766	30	Pass
NVNT	n20	5785	Ant1	9.503	30	Pass
NVNT	n20	5825	Ant1	10.539	30	Pass
NVNT	n40	5755	Ant1	9.495	30	Pass
NVNT	n40	5795	Ant1	9.589	30	Pass

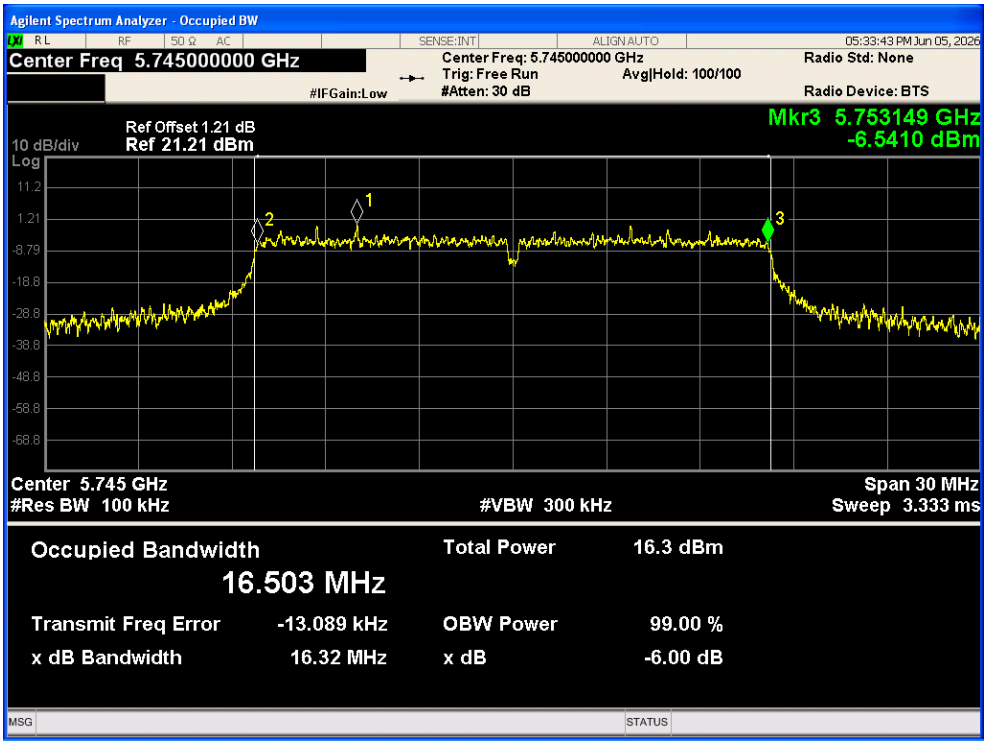
Note: The average power value already includes the duty cycle factor.

-6dB Bandwidth

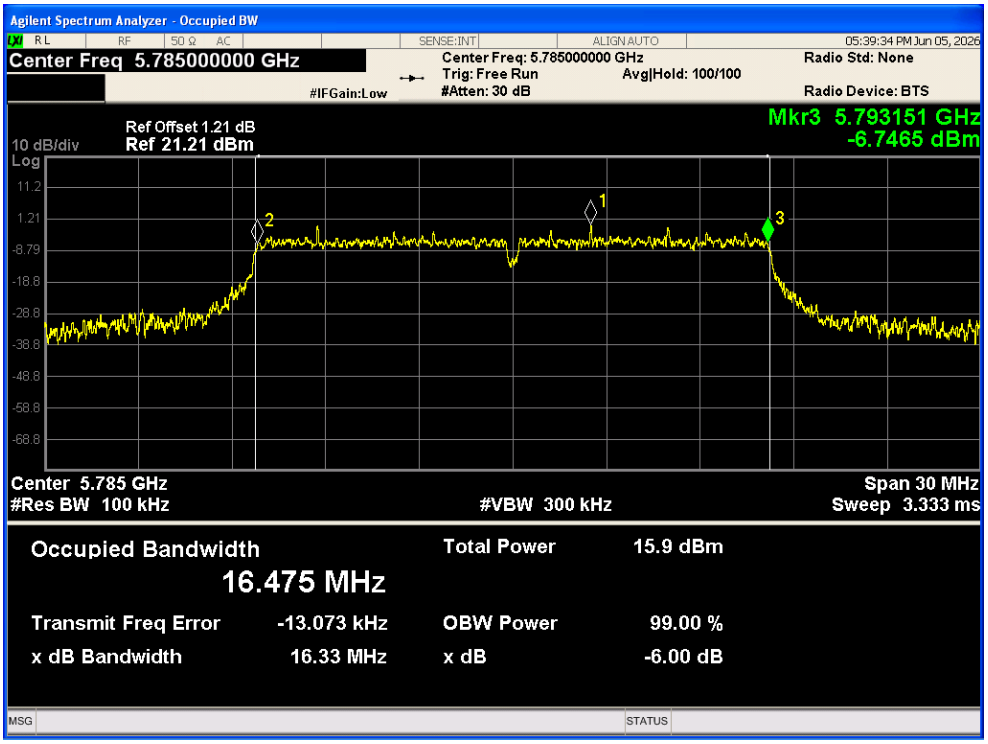
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.325	0.5	Pass
NVNT	a	5785	Ant1	16.329	0.5	Pass
NVNT	a	5825	Ant1	16.33	0.5	Pass
NVNT	ac20	5745	Ant1	17.015	0.5	Pass
NVNT	ac20	5785	Ant1	17.011	0.5	Pass
NVNT	ac20	5825	Ant1	17.092	0.5	Pass
NVNT	ac40	5755	Ant1	35.461	0.5	Pass

NVNT	ac40	5795	Ant1	35.711	0.5	Pass
NVNT	ac80	5775	Ant1	75.561	0.5	Pass
NVNT	n20	5745	Ant1	16.845	0.5	Pass
NVNT	n20	5785	Ant1	17.142	0.5	Pass
NVNT	n20	5825	Ant1	16.918	0.5	Pass
NVNT	n40	5755	Ant1	35.595	0.5	Pass
NVNT	n40	5795	Ant1	35.57	0.5	Pass

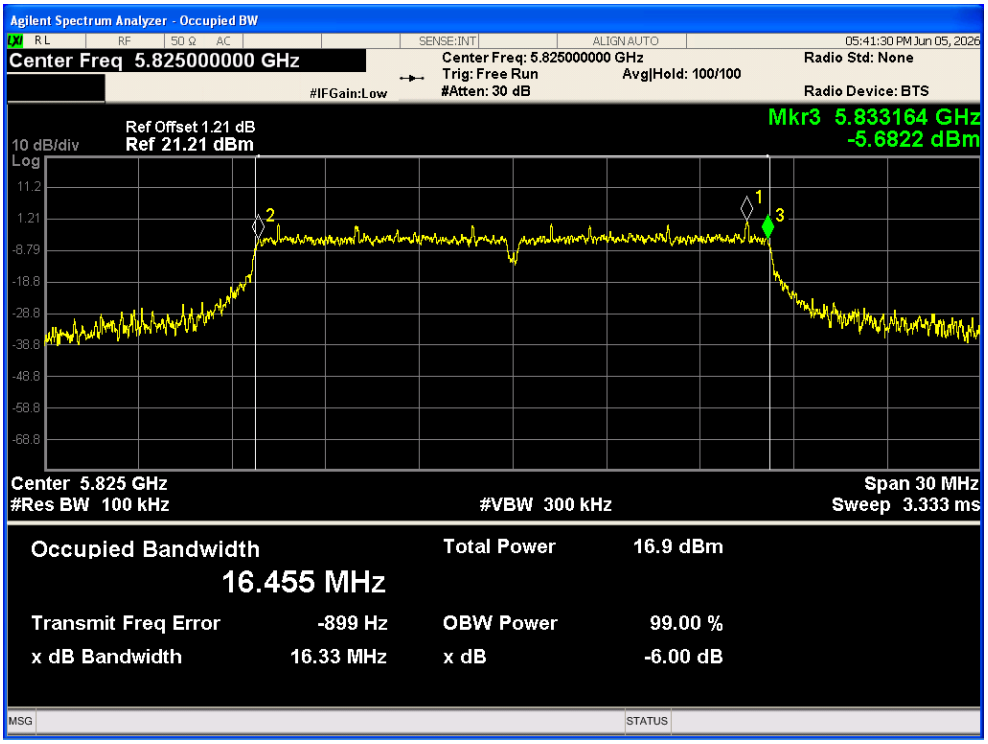
-6dB Bandwidth NVNT a 5745MHz Ant1



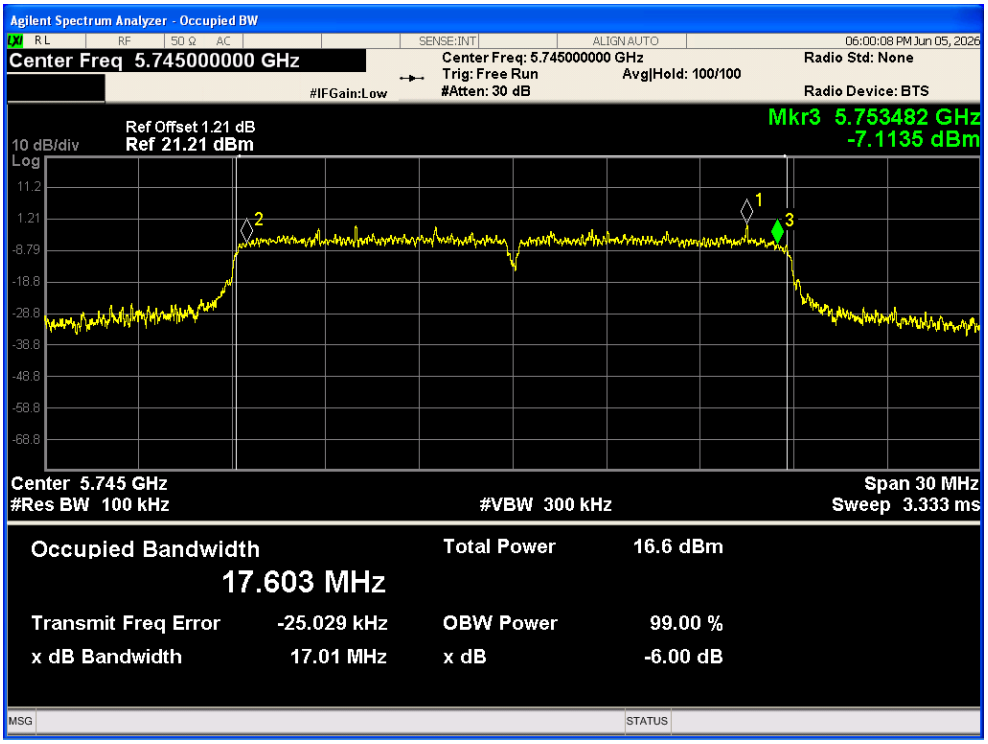
-6dB Bandwidth NVNT a 5785MHz Ant1



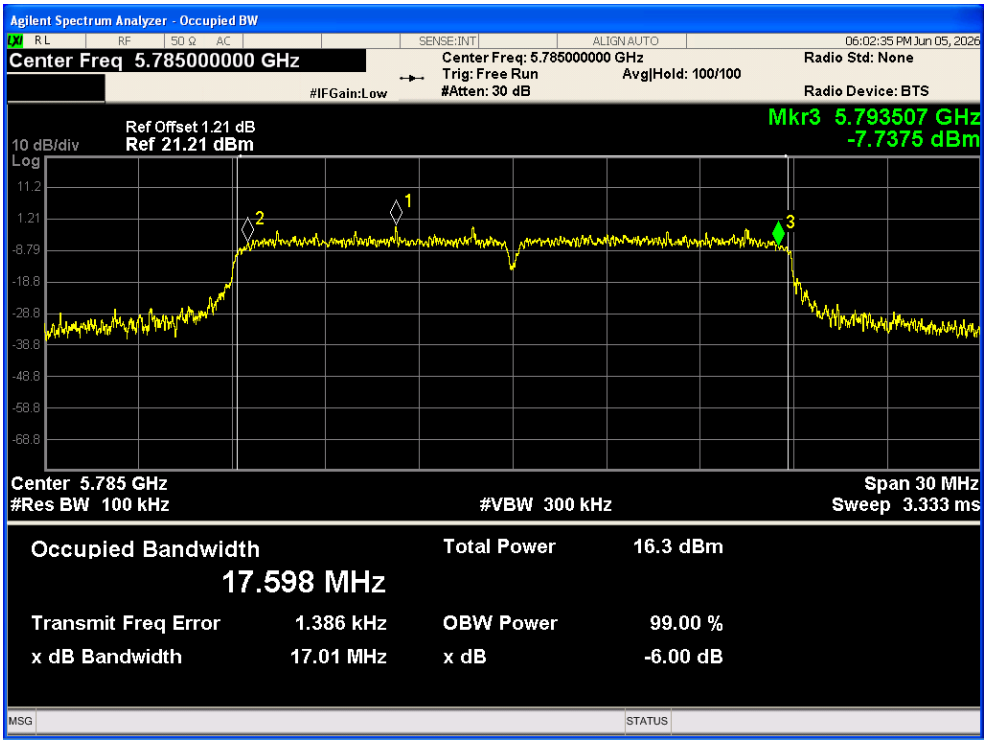
-6dB Bandwidth NVNT a 5825MHz Ant1



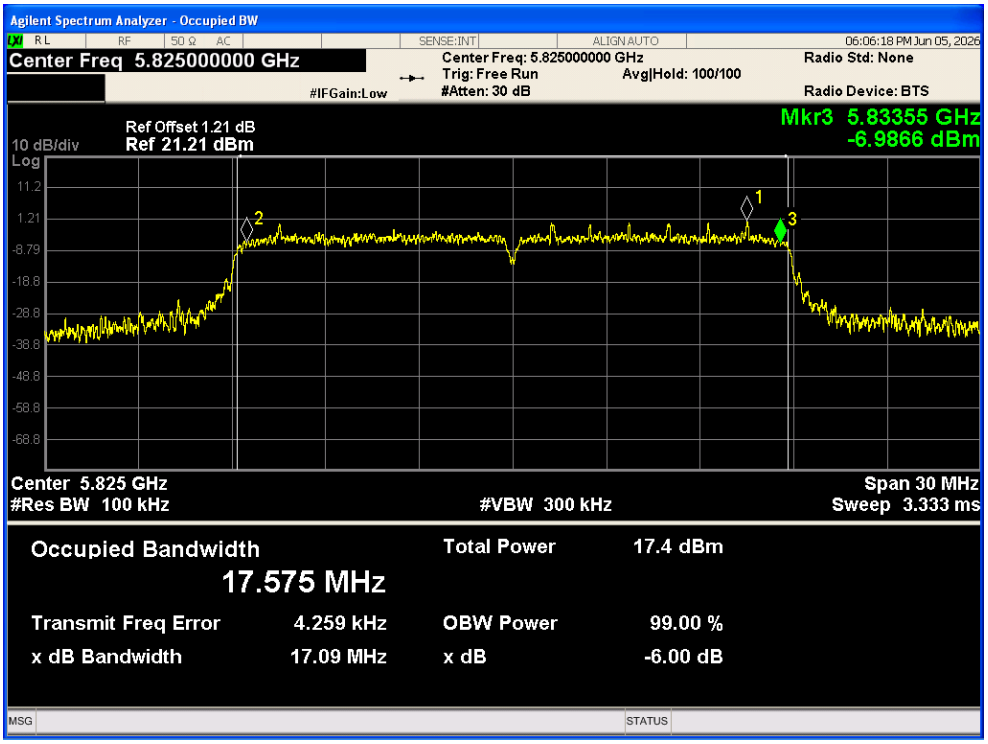
-6dB Bandwidth NVNT ac20 5745MHz Ant1



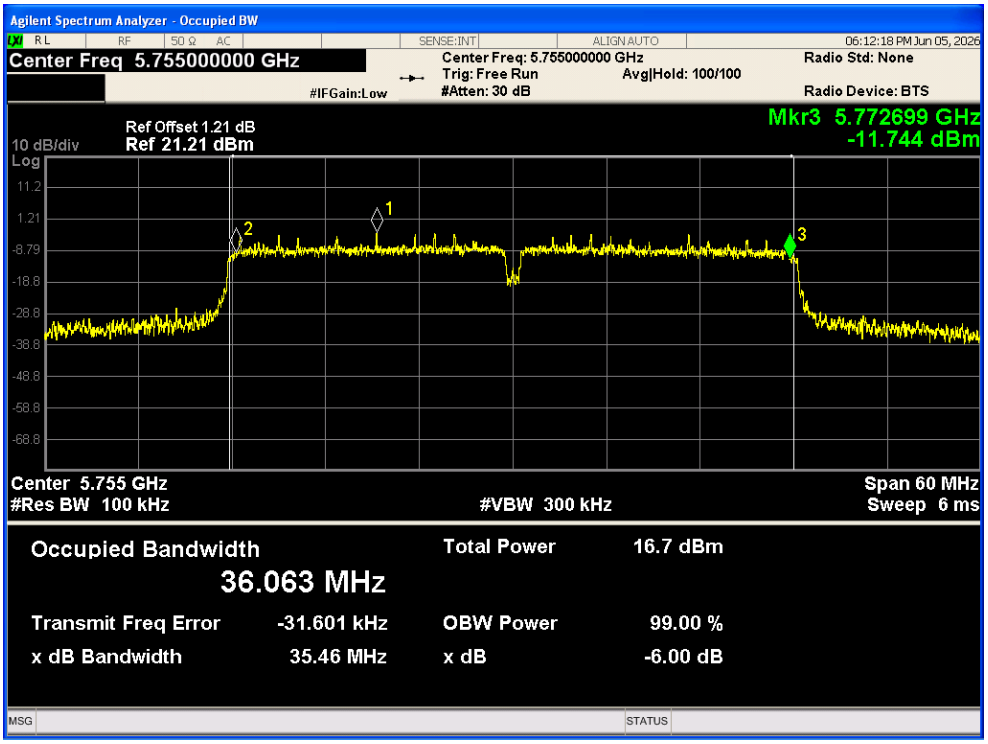
-6dB Bandwidth NVNT ac20 5785MHz Ant1



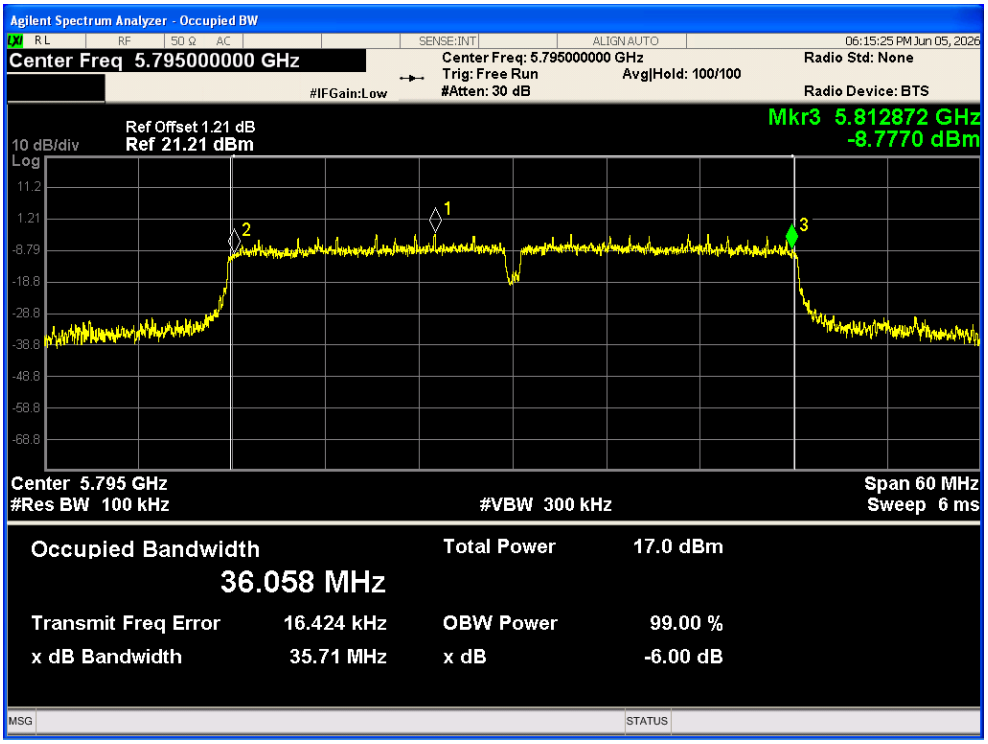
-6dB Bandwidth NVNT ac20 5825MHz Ant1



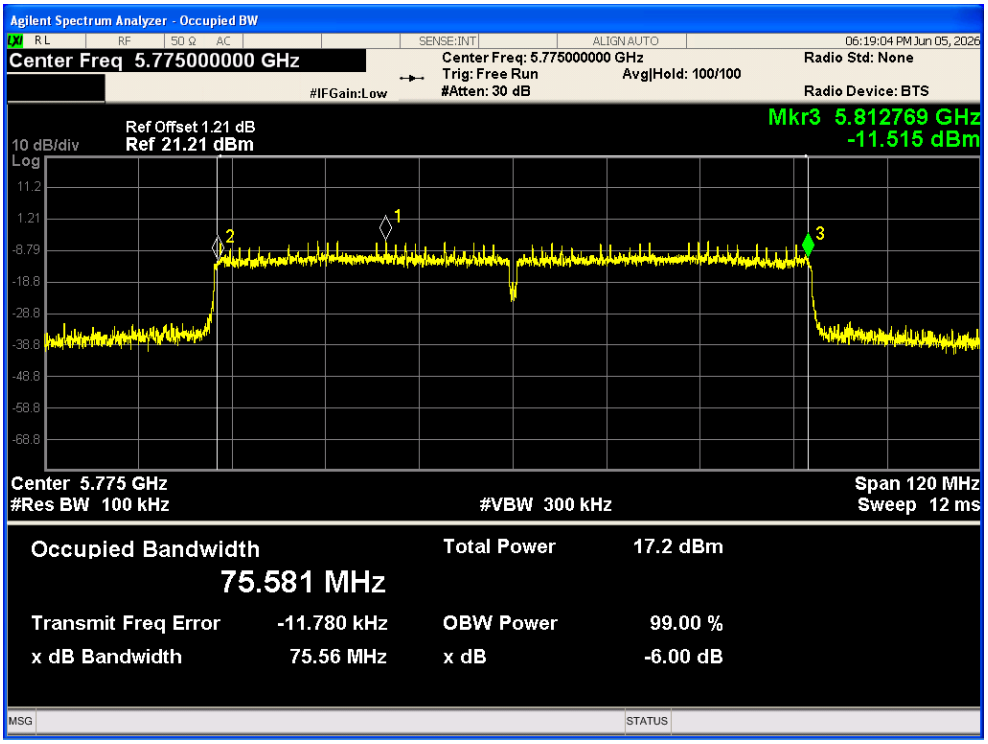
-6dB Bandwidth NVNT ac40 5755MHz Ant1



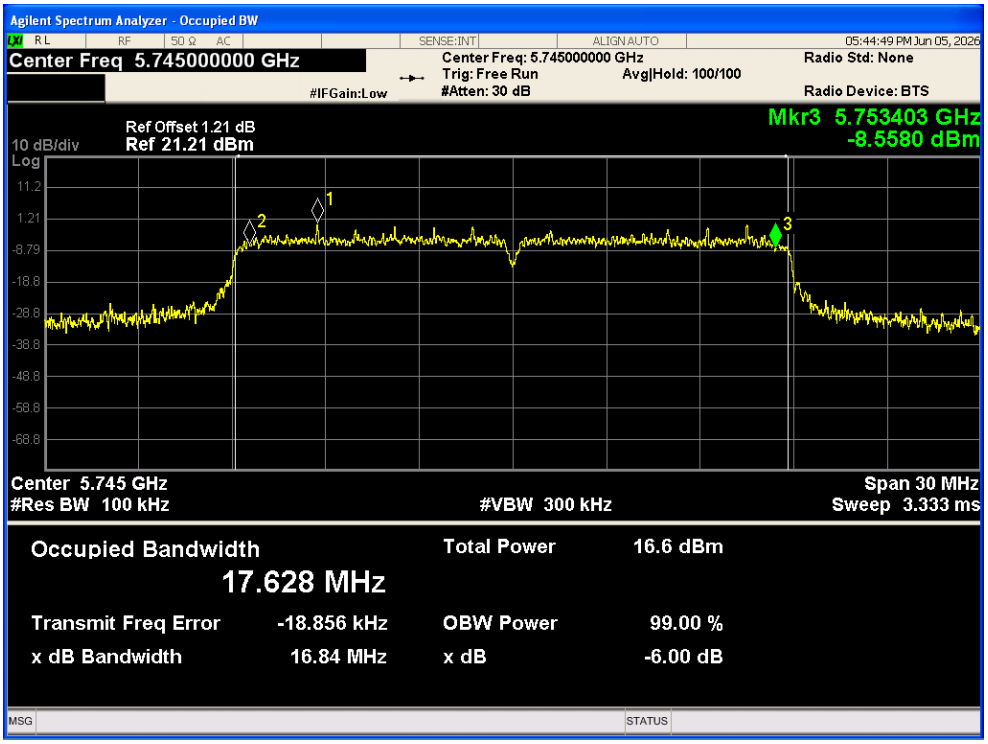
-6dB Bandwidth NVNT ac40 5795MHz Ant1



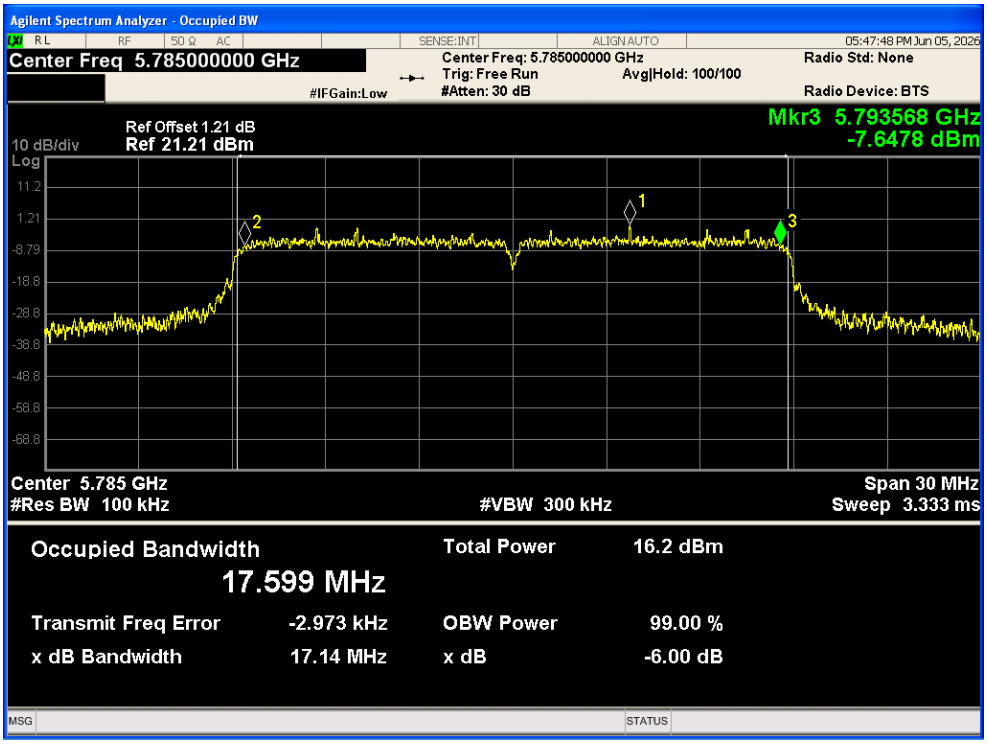
-6dB Bandwidth NVNT ac80 5775MHz Ant1



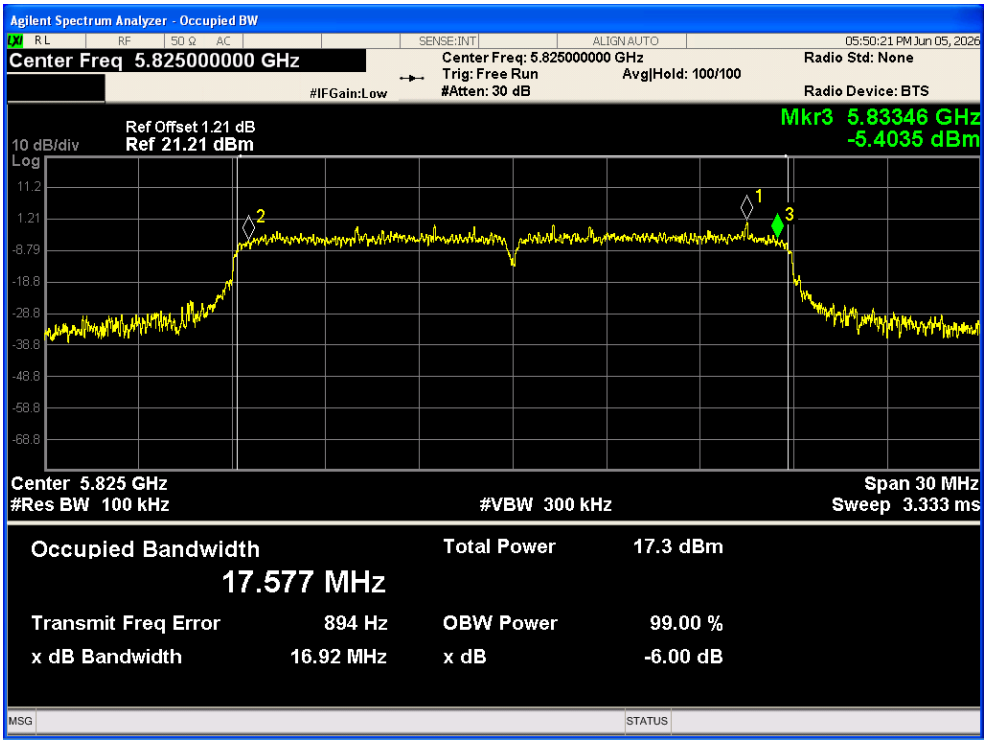
-6dB Bandwidth NVNT n20 5745MHz Ant1



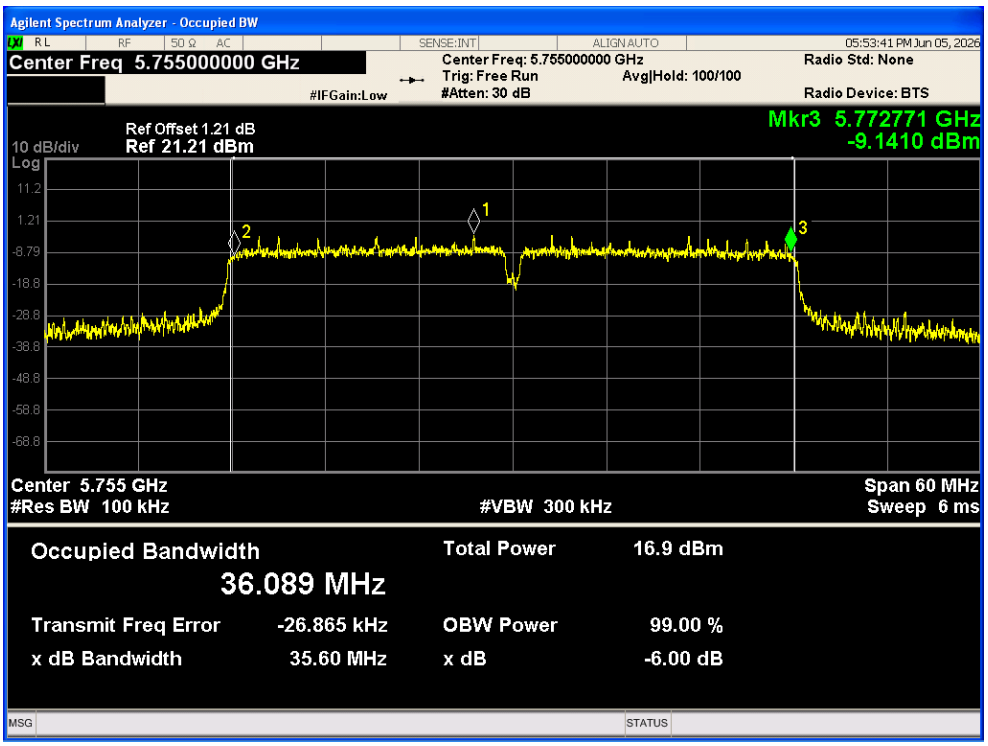
-6dB Bandwidth NVNT n20 5785MHz Ant1



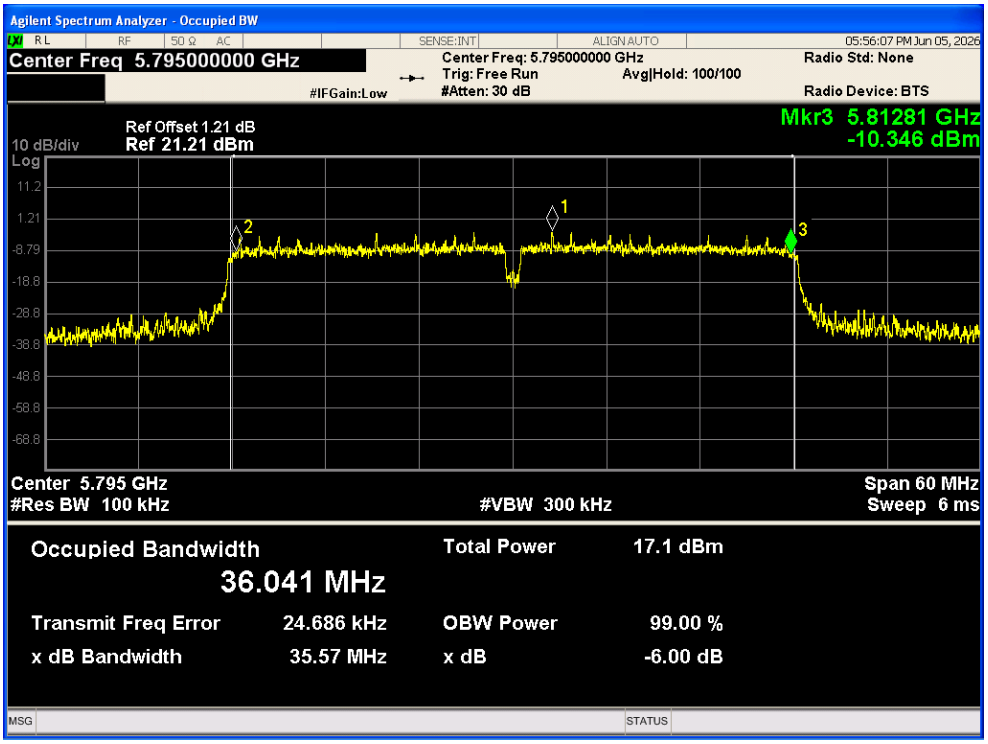
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



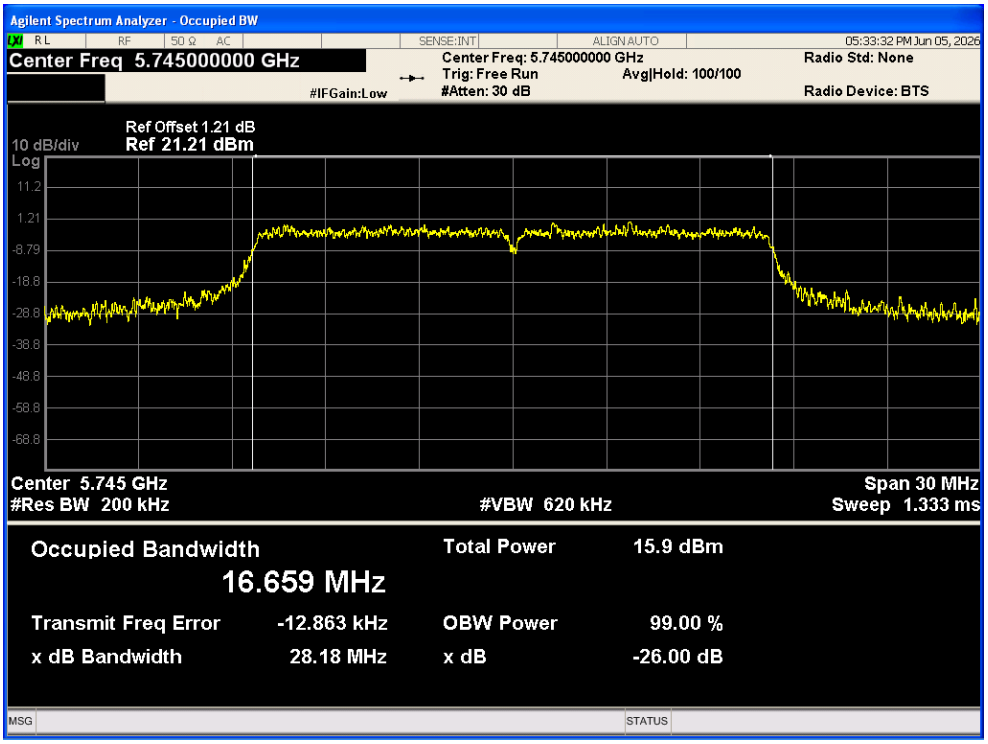
-6dB Bandwidth NVNT n40 5795MHz Ant1



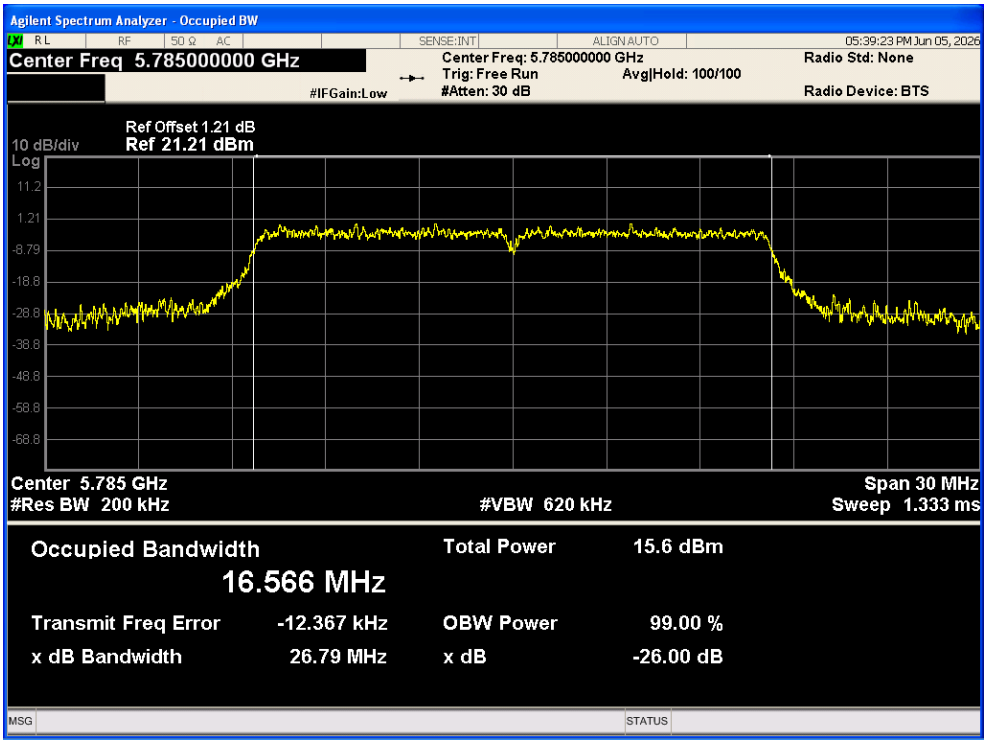
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.659
NVNT	a	5785	Ant1	16.566
NVNT	a	5825	Ant1	16.584
NVNT	ac20	5745	Ant1	17.698
NVNT	ac20	5785	Ant1	17.637
NVNT	ac20	5825	Ant1	17.63
NVNT	ac40	5755	Ant1	36.295
NVNT	ac40	5795	Ant1	36.19
NVNT	ac80	5775	Ant1	75.706
NVNT	n20	5745	Ant1	17.671
NVNT	n20	5785	Ant1	17.643
NVNT	n20	5825	Ant1	17.643
NVNT	n40	5755	Ant1	36.294
NVNT	n40	5795	Ant1	36.217

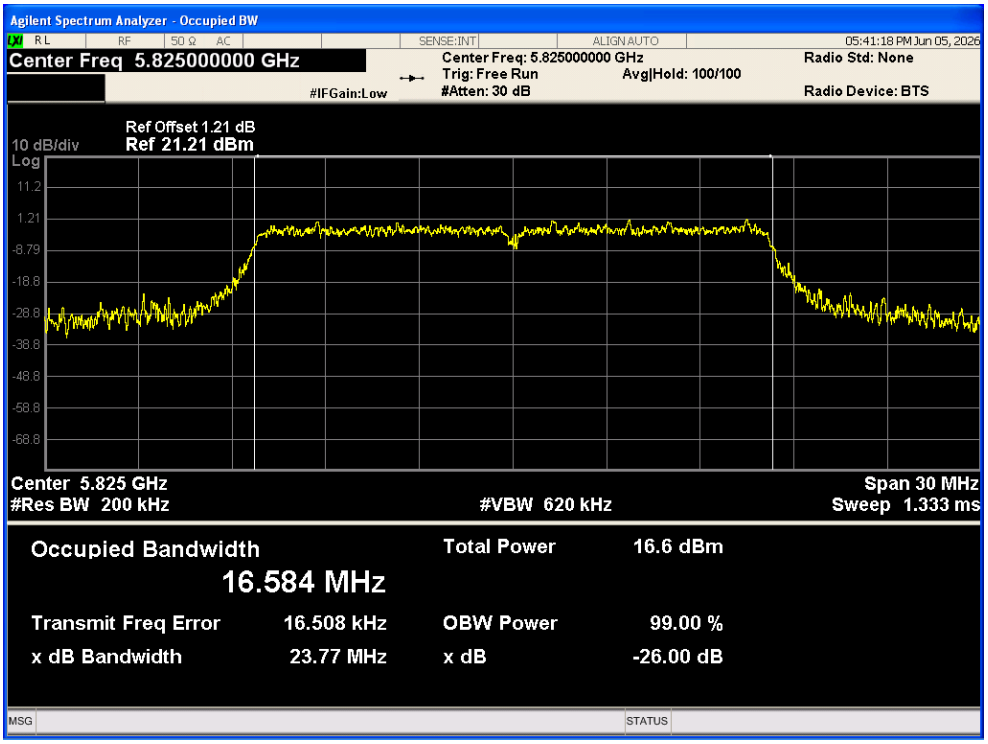
OBW NVNT a 5745MHz Ant1



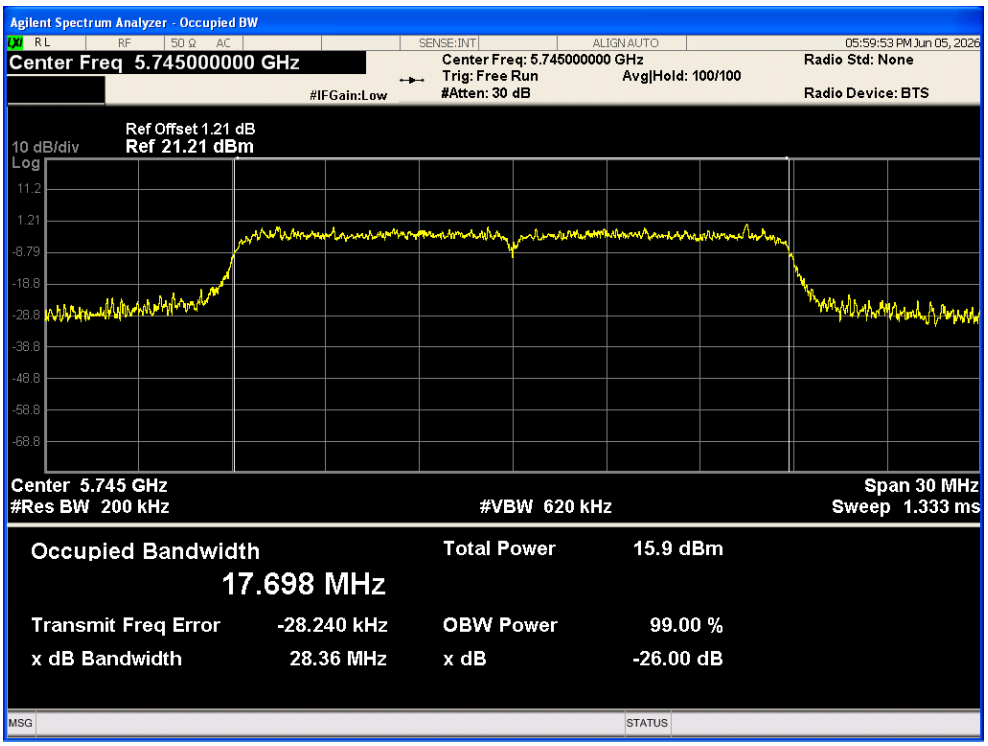
OBW NVNT a 5785MHz Ant1



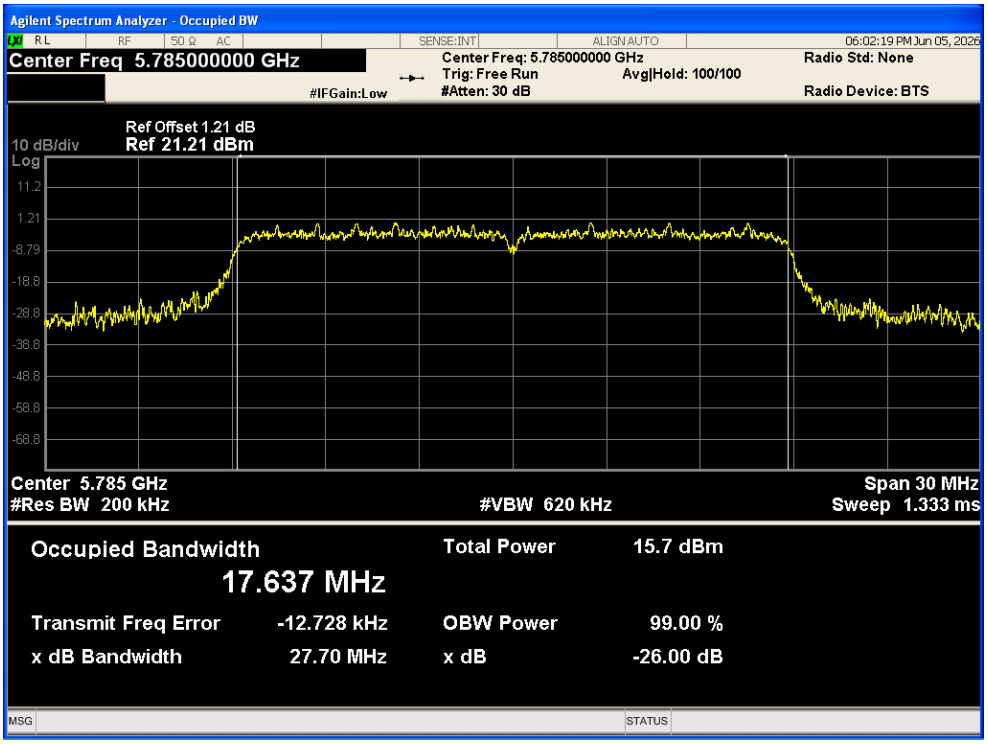
OBW NVNT a 5825MHz Ant1



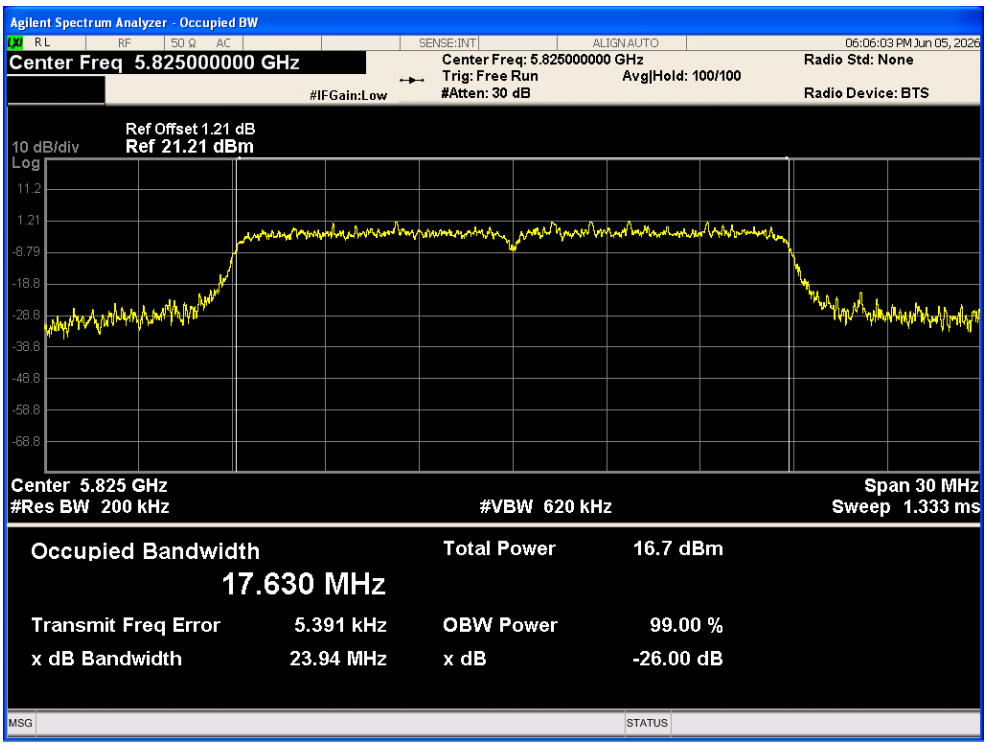
OBW NVNT ac20 5745MHz Ant1



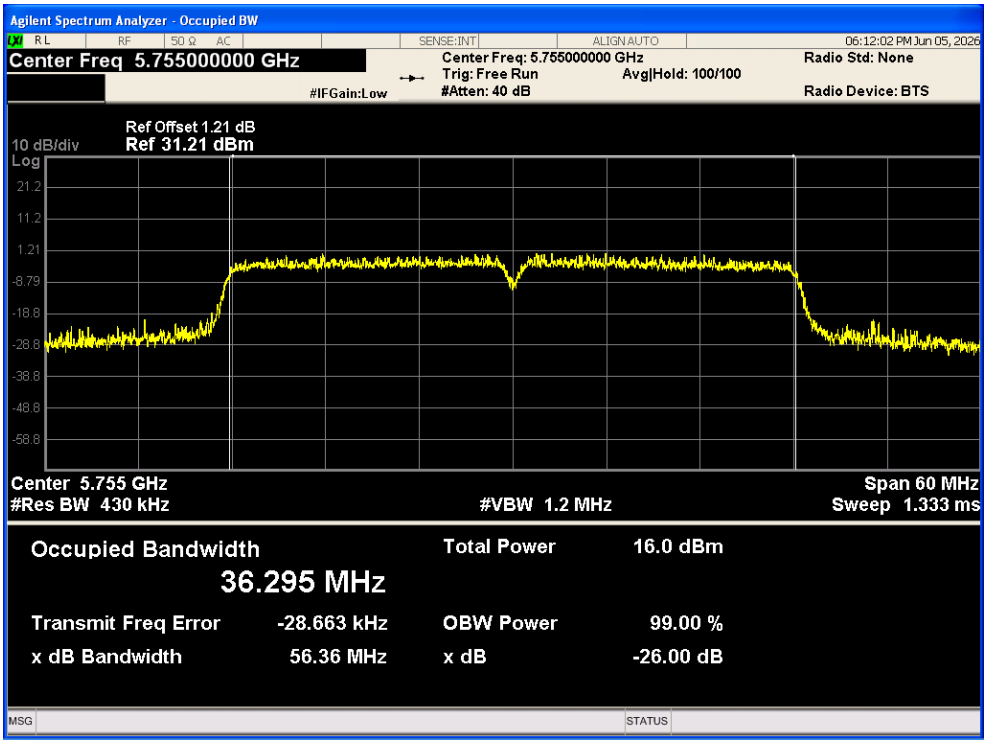
OBW NVNT ac20 5785MHz Ant1



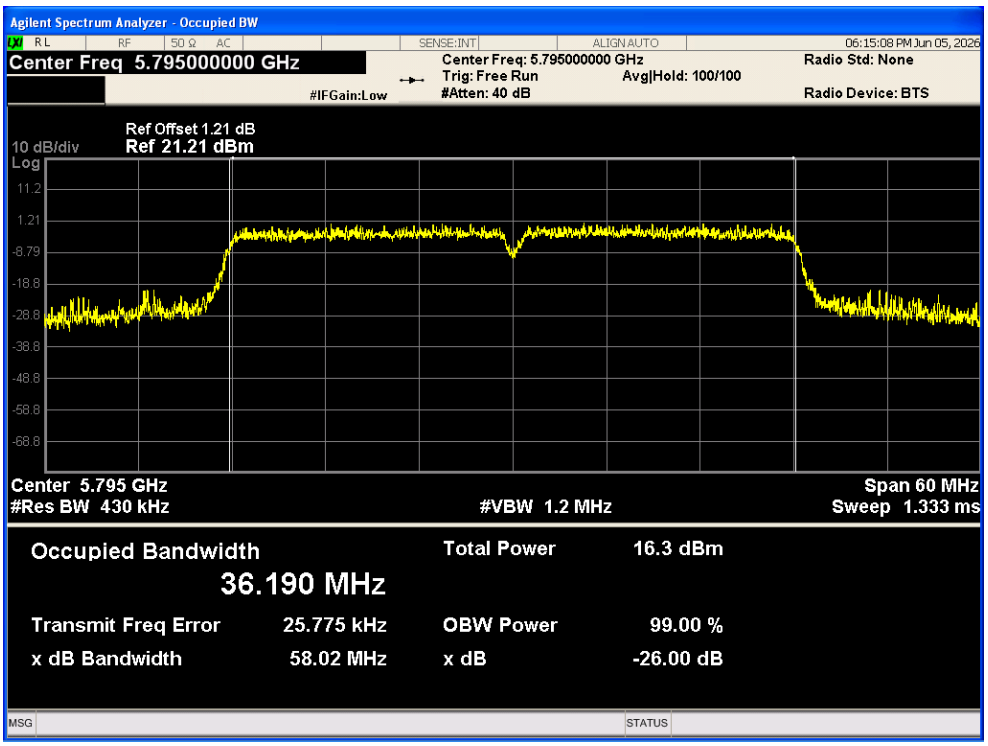
OBW NVNT ac20 5825MHz Ant1



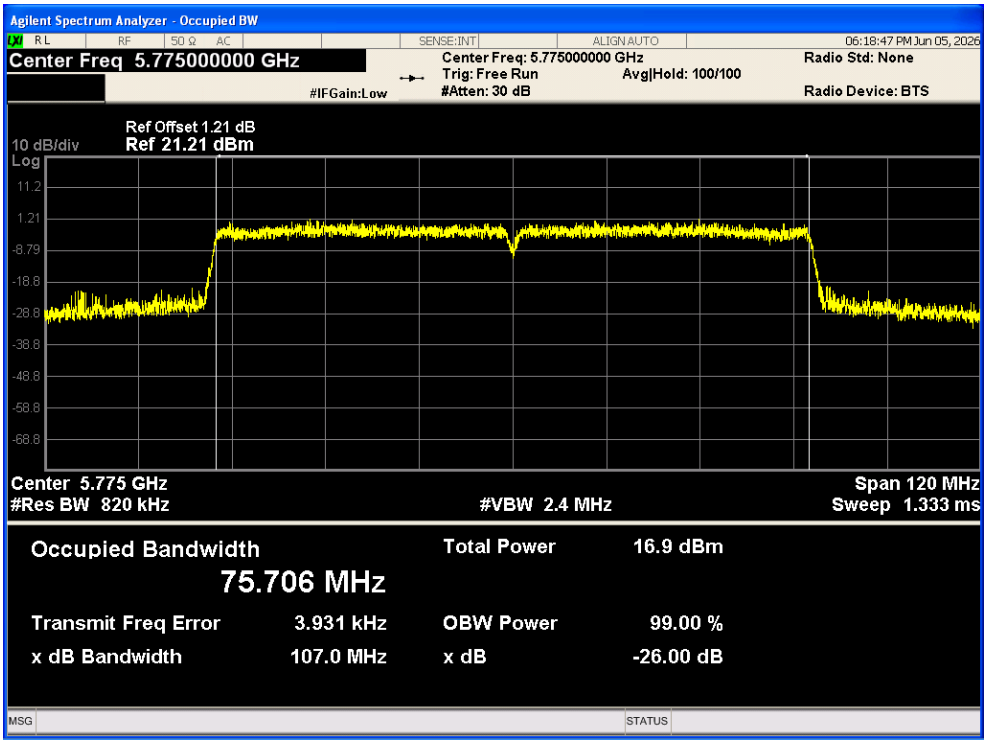
OBW NVNT ac40 5755MHz Ant1



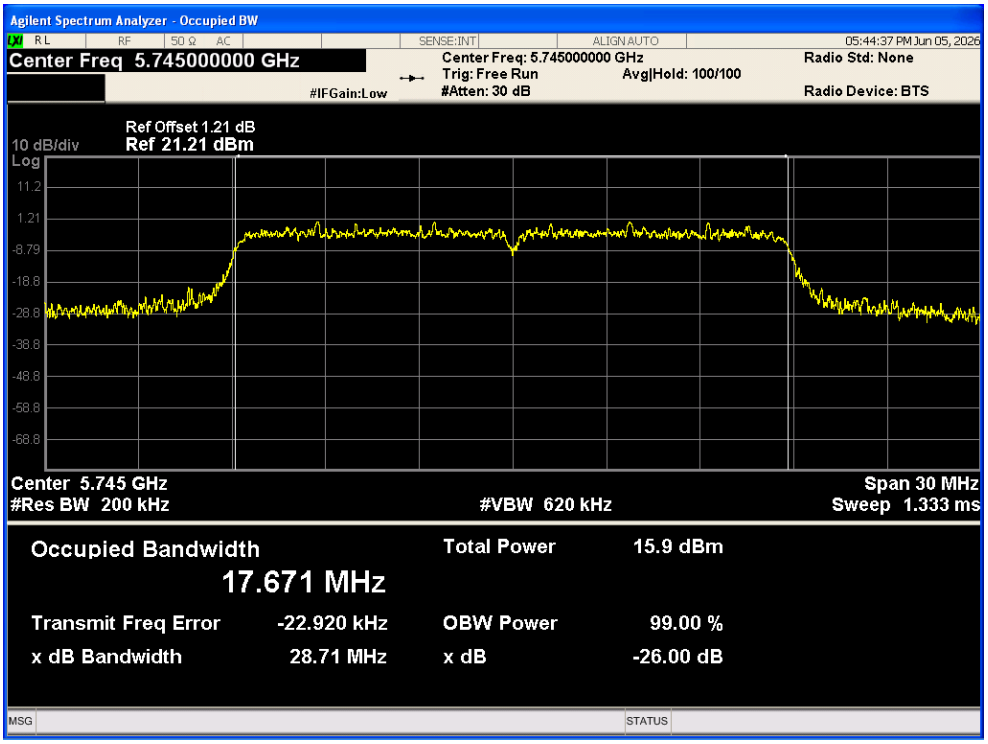
OBW NVNT ac40 5795MHz Ant1



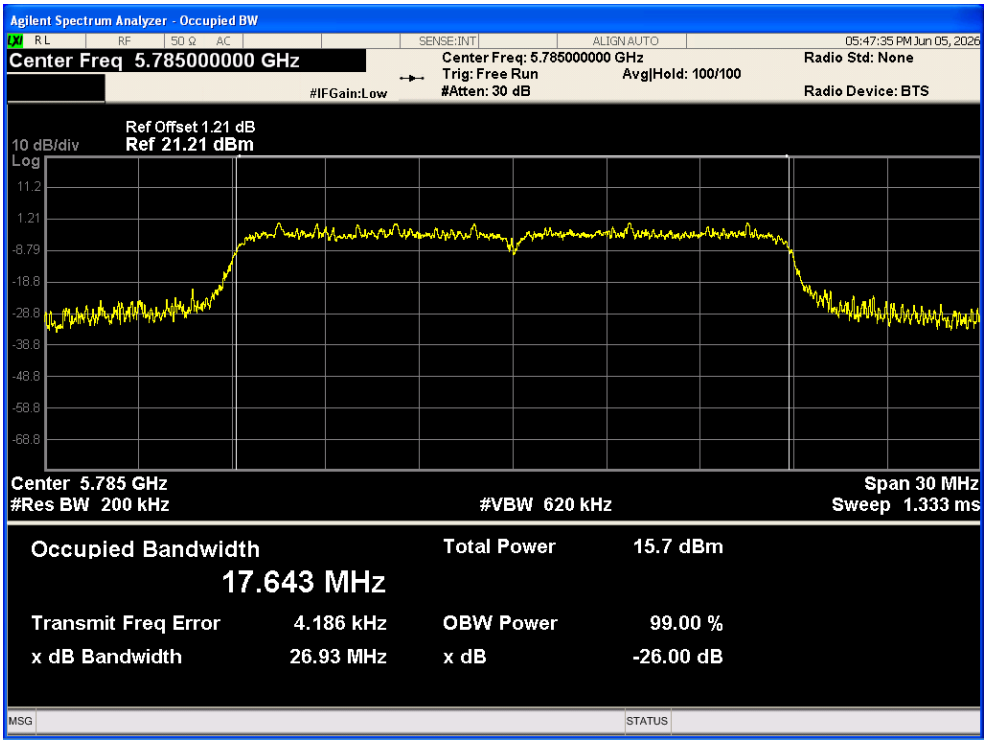
OBW NVNT ac80 5775MHz Ant1



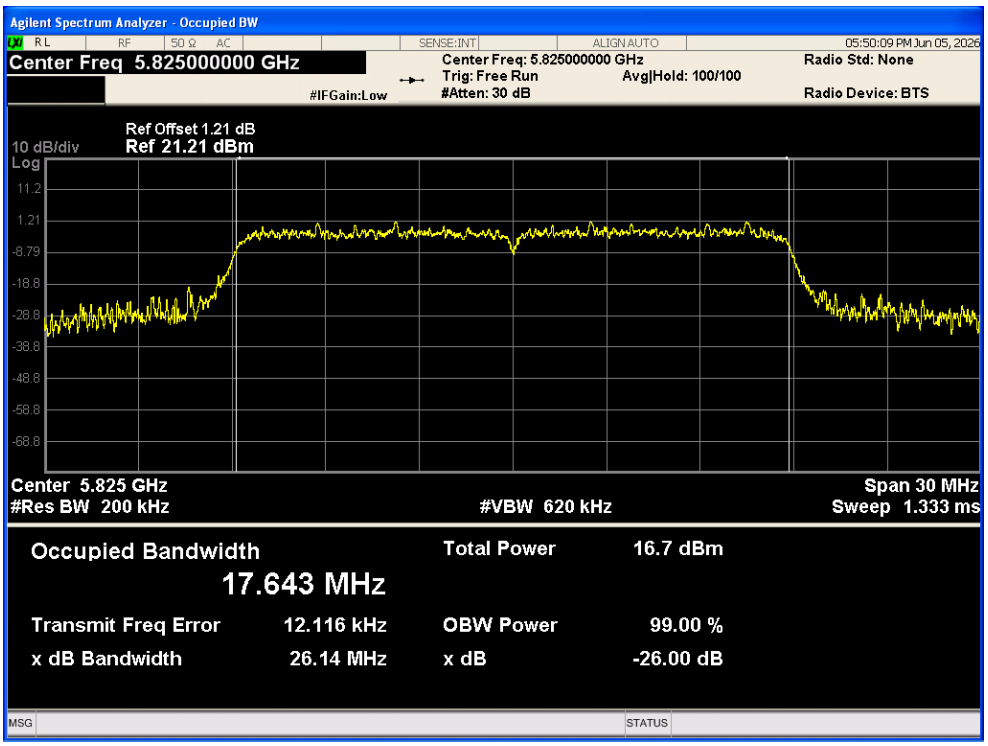
OBW NVNT n20 5745MHz Ant1



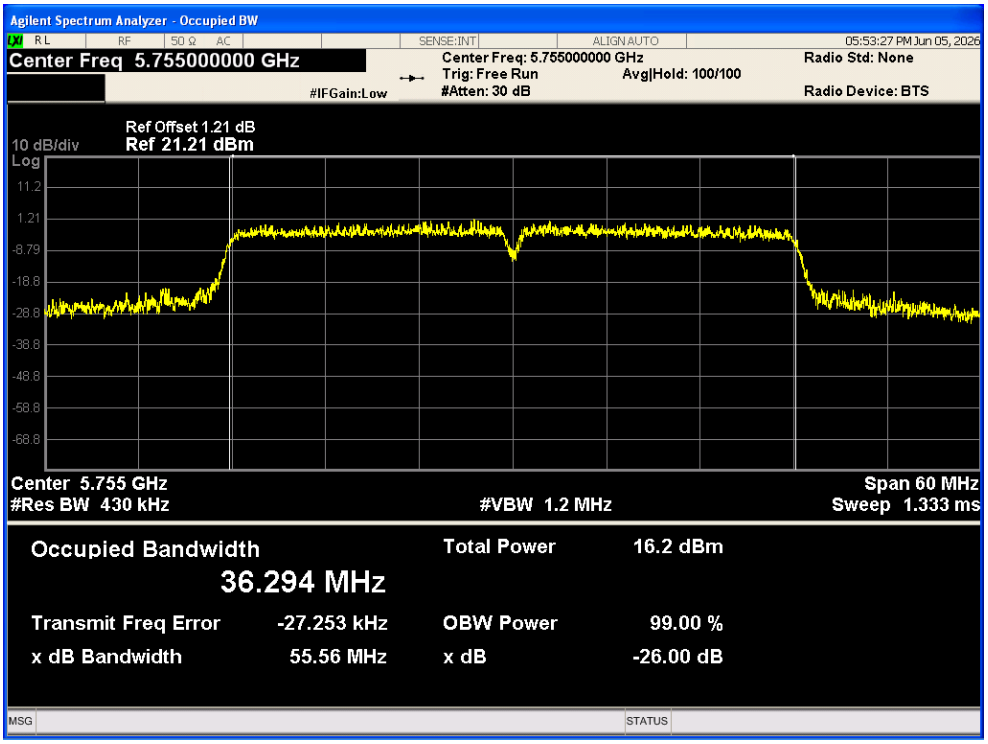
OBW NVNT n20 5785MHz Ant1



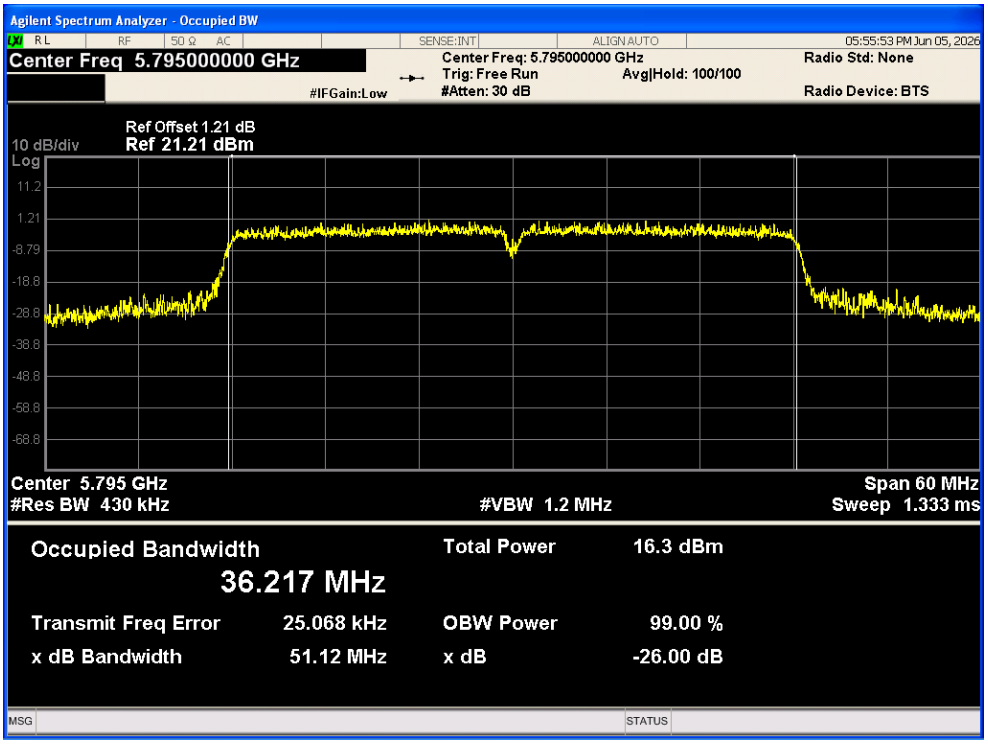
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1

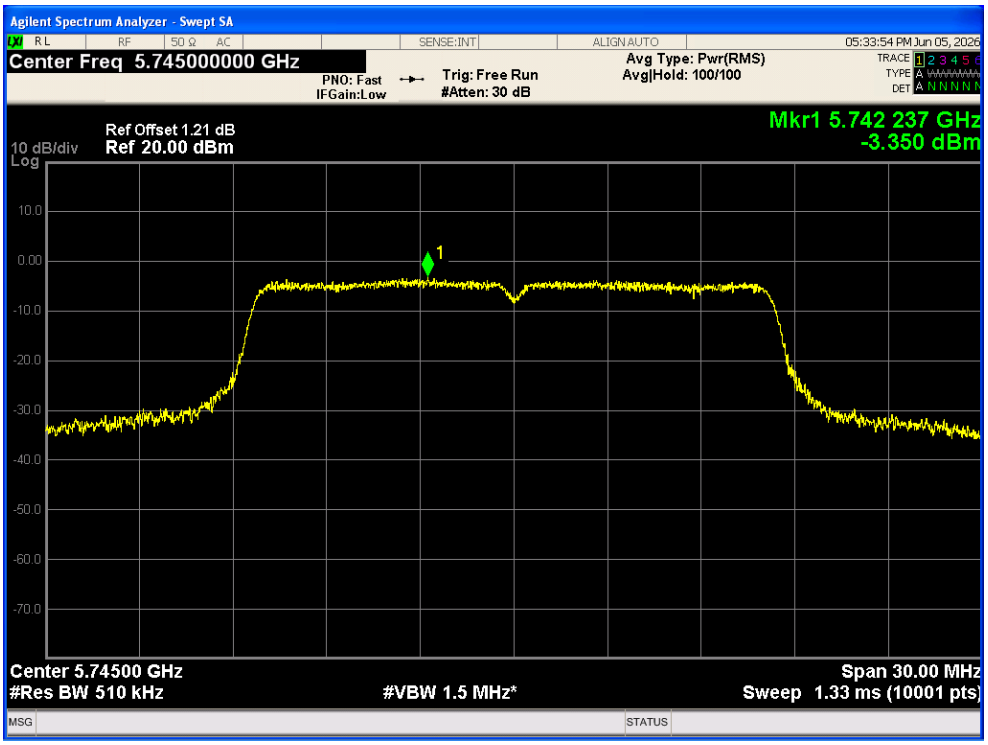


Maximum Power Spectral Density Level

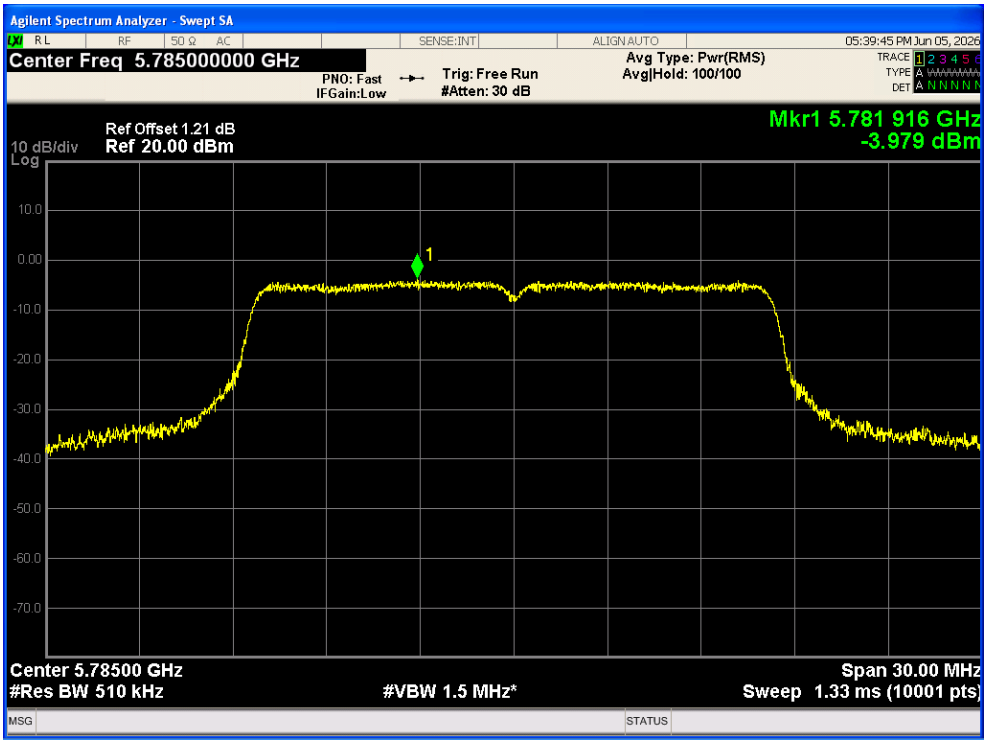
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-3.35	0.64	-2.71	30	Pass
NVNT	a	5785	Ant1	-3.979	0.54	-3.439	30	Pass
NVNT	a	5825	Ant1	-2.533	0.52	-2.013	30	Pass
NVNT	ac20	5745	Ant1	-4.007	0.75	-3.257	30	Pass

NVNT	ac20	5785	Ant1	-4.302	0.62	-3.682	30	Pass
NVNT	ac20	5825	Ant1	-3.24	0.6	-2.64	30	Pass
NVNT	ac40	5755	Ant1	-7.475	1.15	-6.325	30	Pass
NVNT	ac40	5795	Ant1	-6.792	1.15	-5.642	30	Pass
NVNT	ac80	5775	Ant1	-10.655	2.83	-7.825	30	Pass
NVNT	n20	5745	Ant1	-4.188	0.61	-3.578	30	Pass
NVNT	n20	5785	Ant1	-4.415	0.6	-3.815	30	Pass
NVNT	n20	5825	Ant1	-3.273	0.59	-2.683	30	Pass
NVNT	n40	5755	Ant1	-7.176	1.17	-6.006	30	Pass
NVNT	n40	5795	Ant1	-6.984	1.16	-5.824	30	Pass

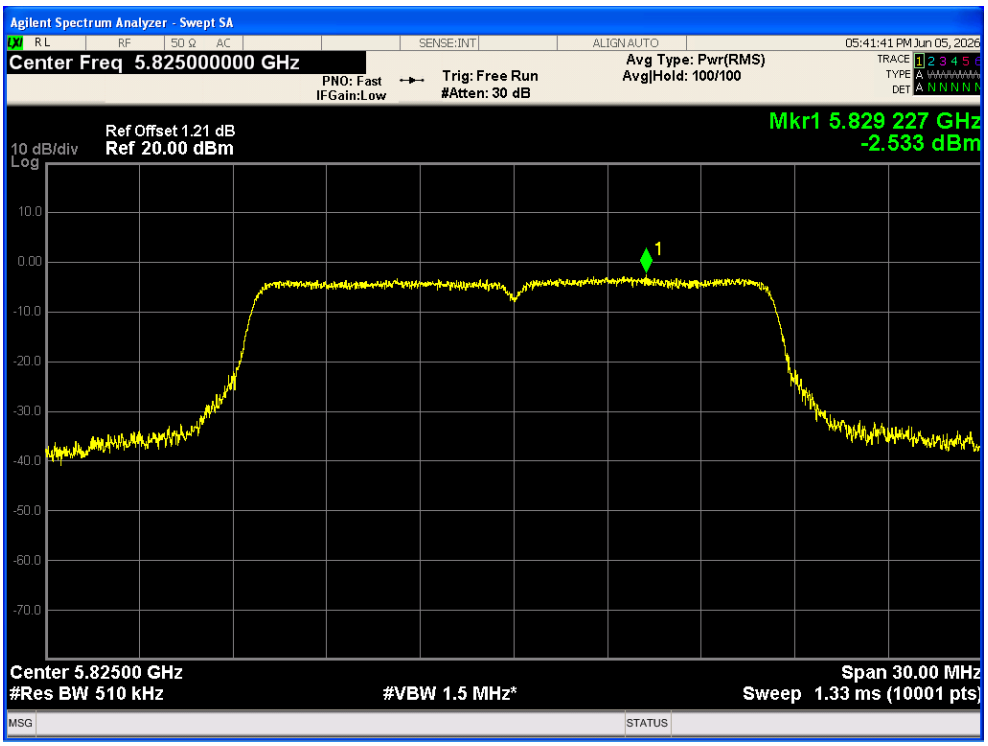
PSD NVNT a 5745MHz Ant1



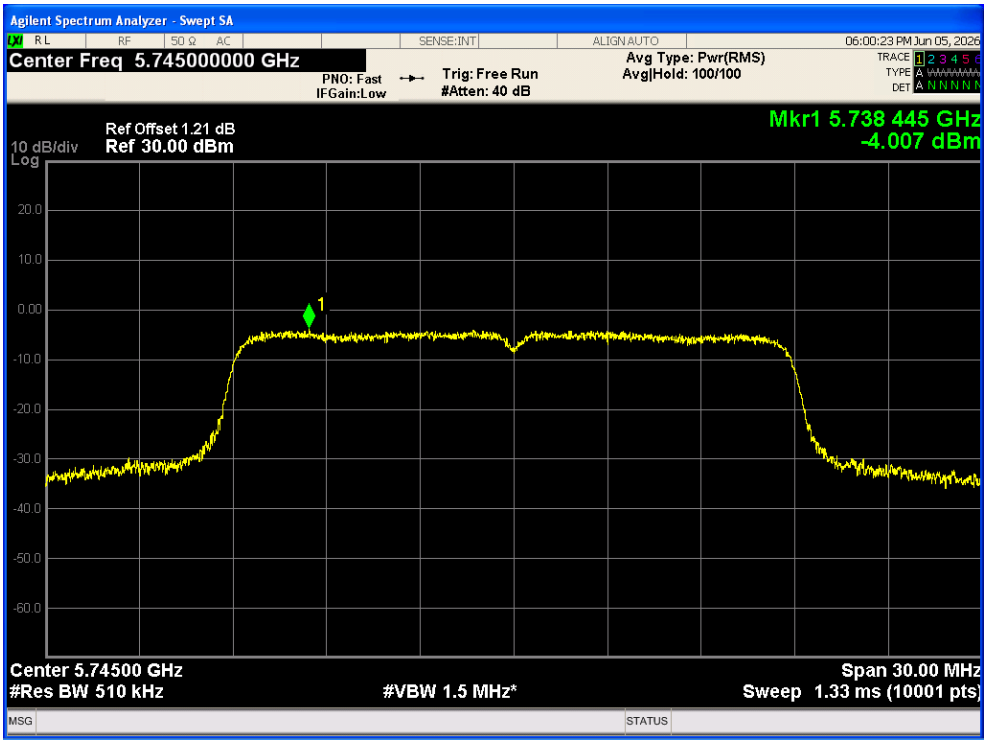
PSD NVNT a 5785MHz Ant1



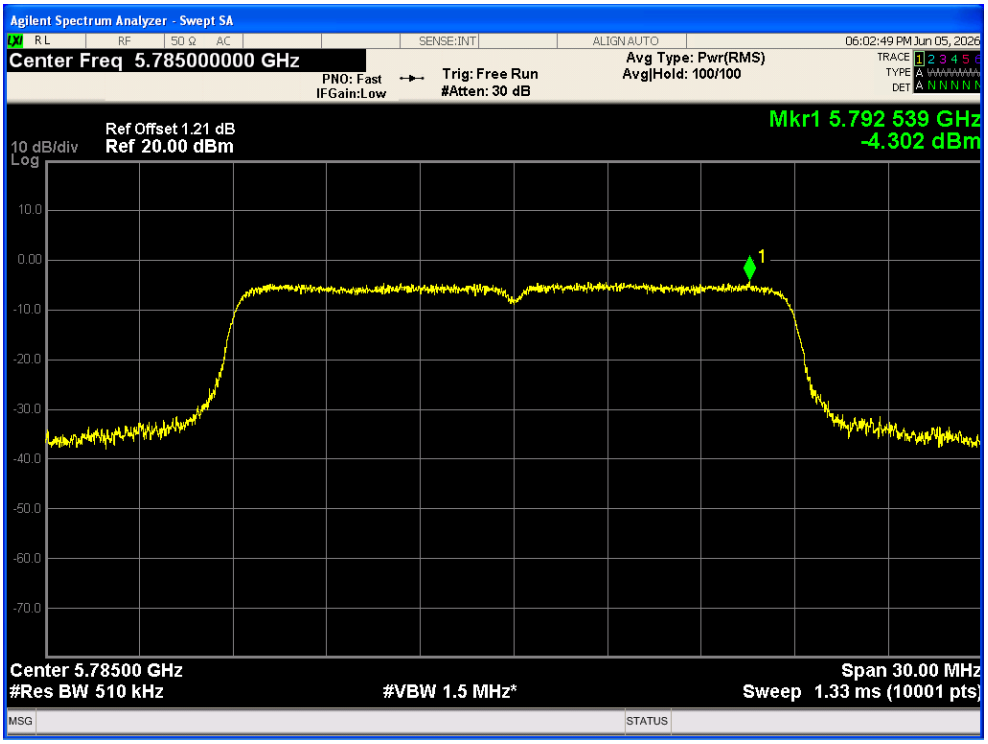
PSD NVNT a 5825MHz Ant1



PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



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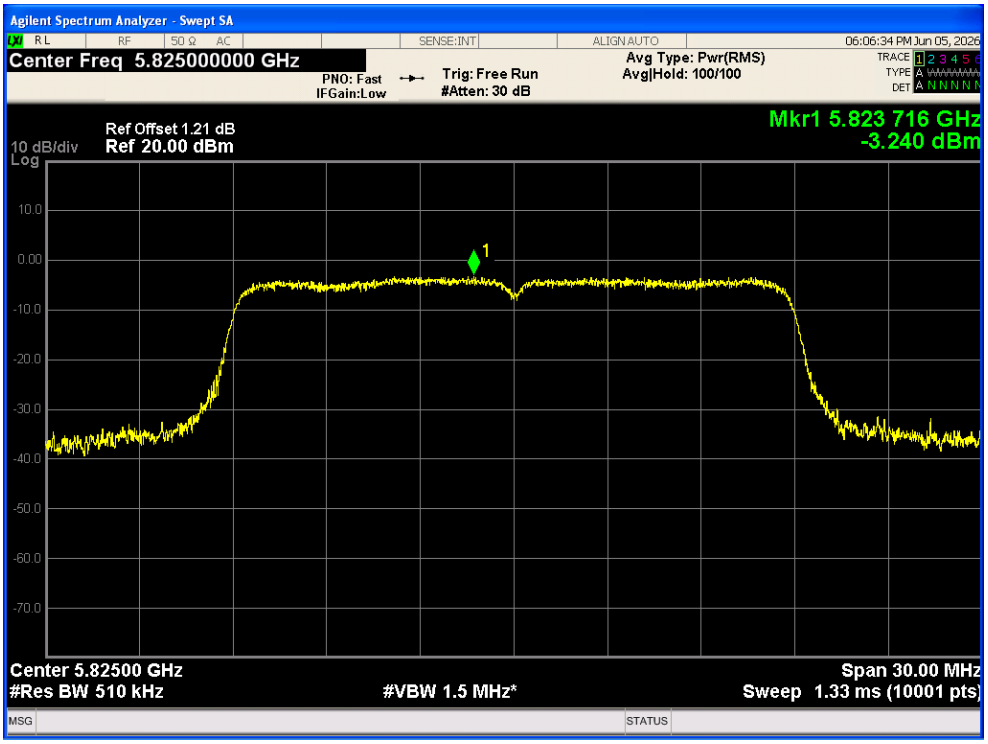
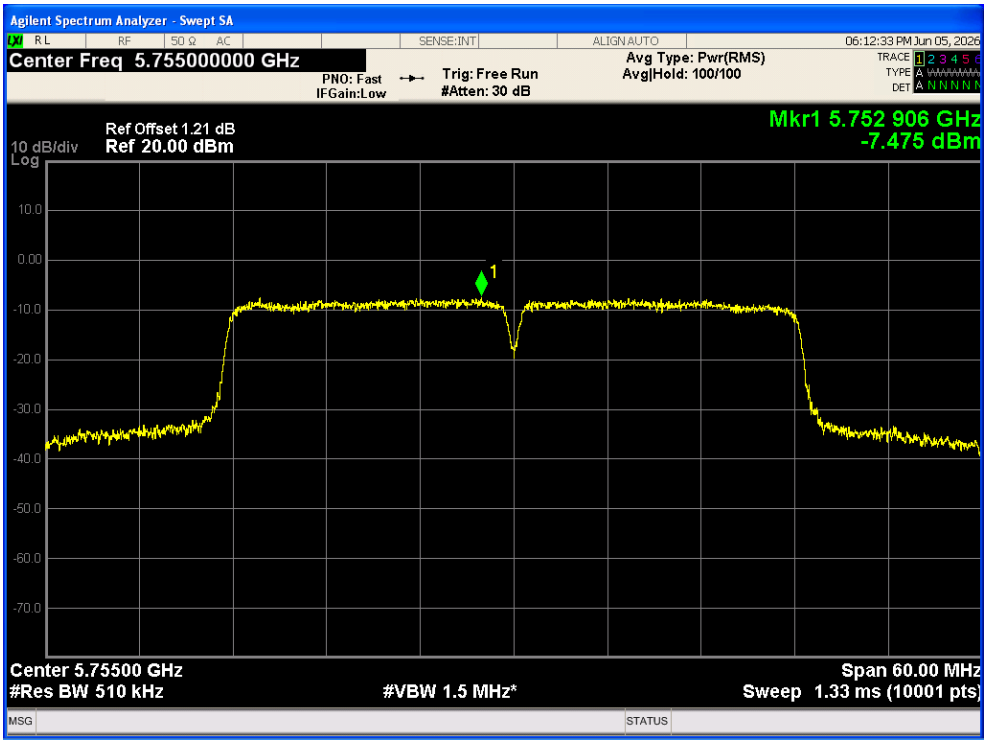
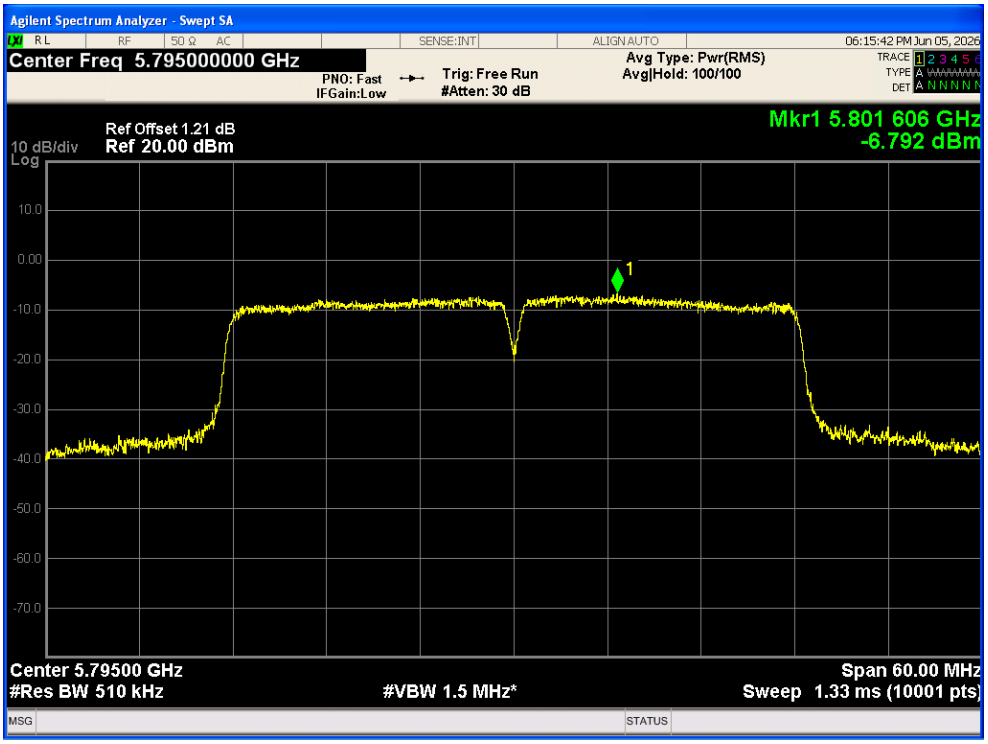


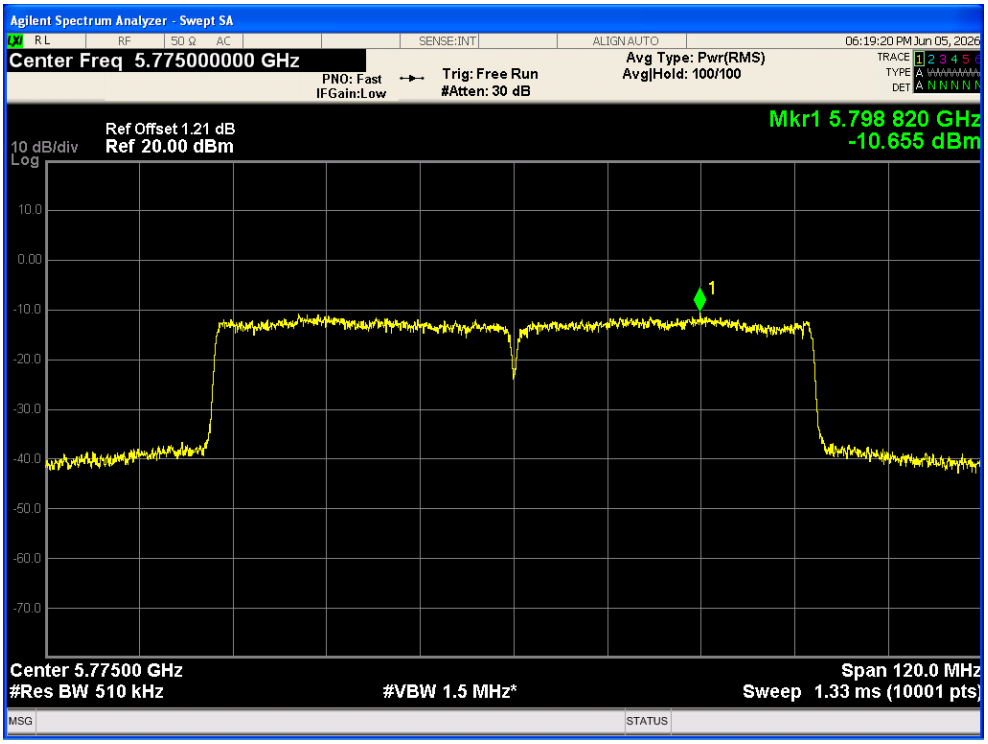
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1



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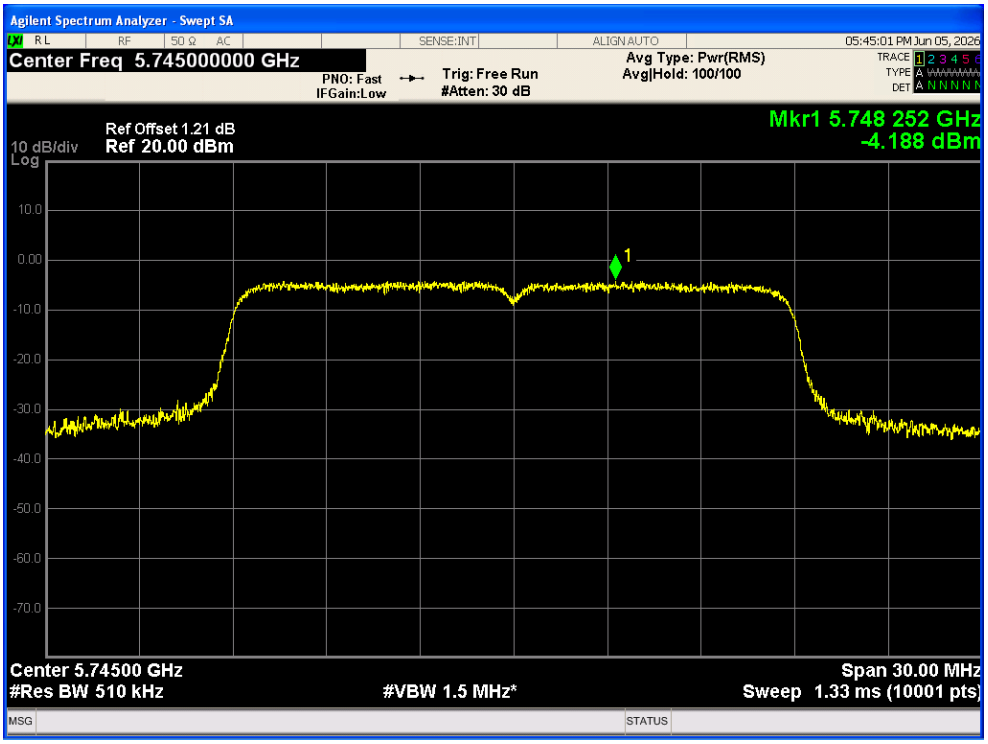

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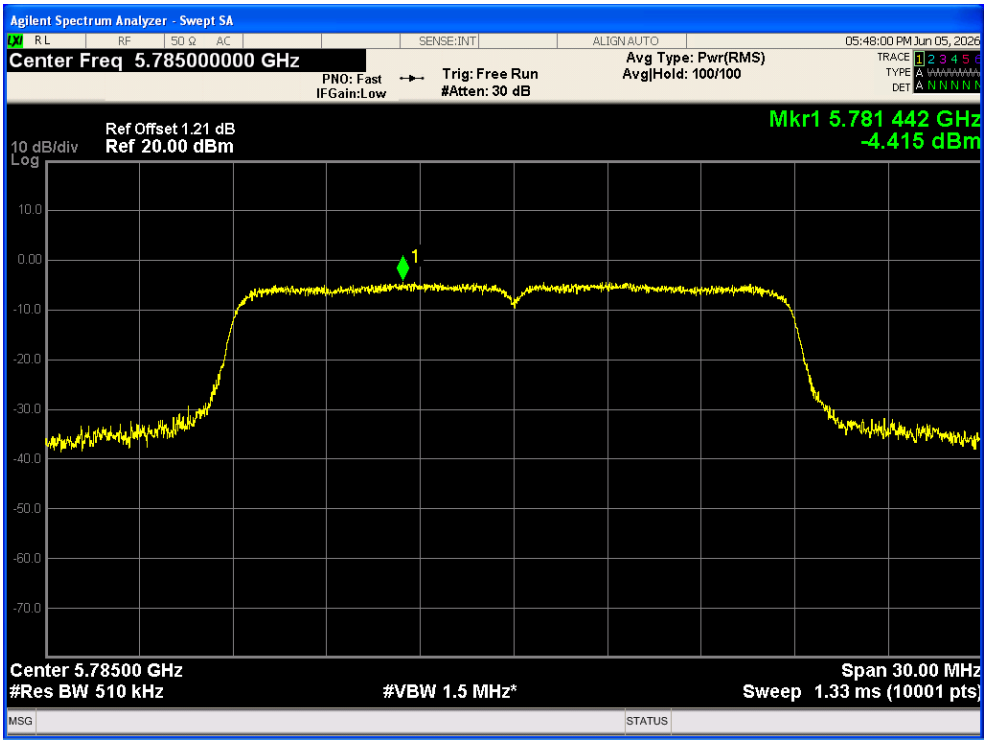

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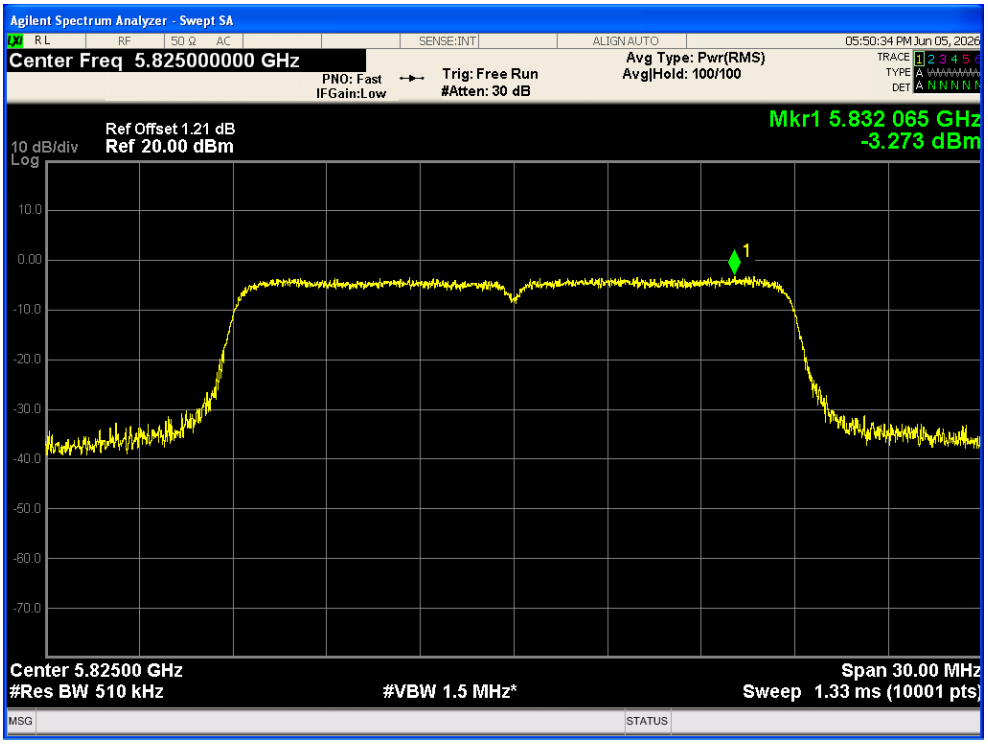

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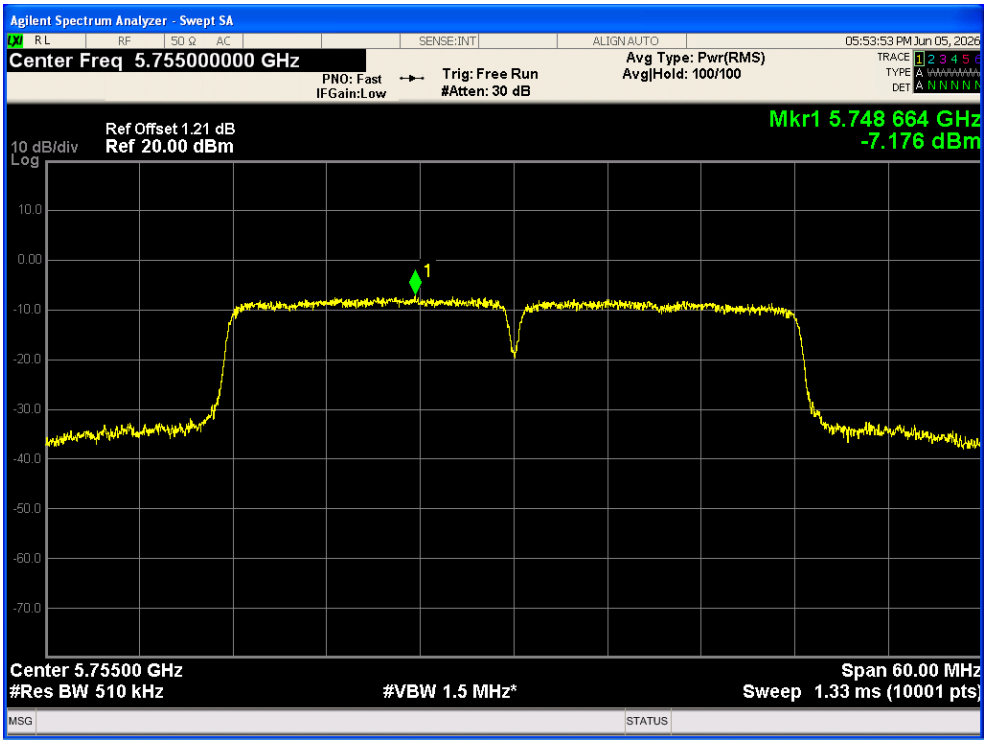

PSD NVNT n40 5795MHz Ant1