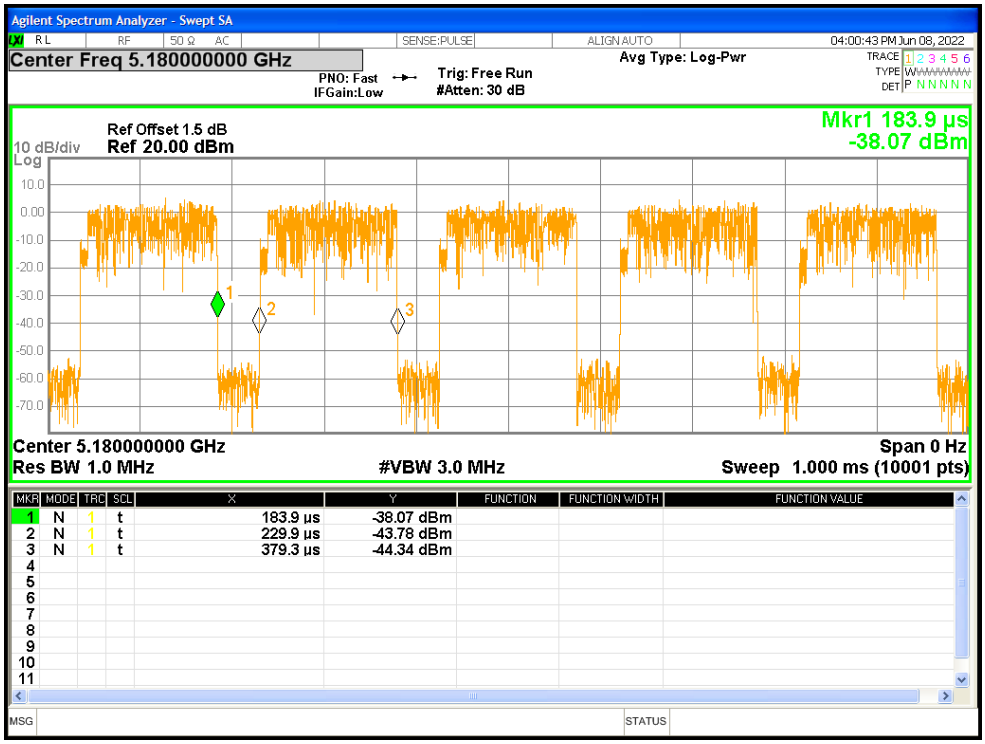
Duty Cycle

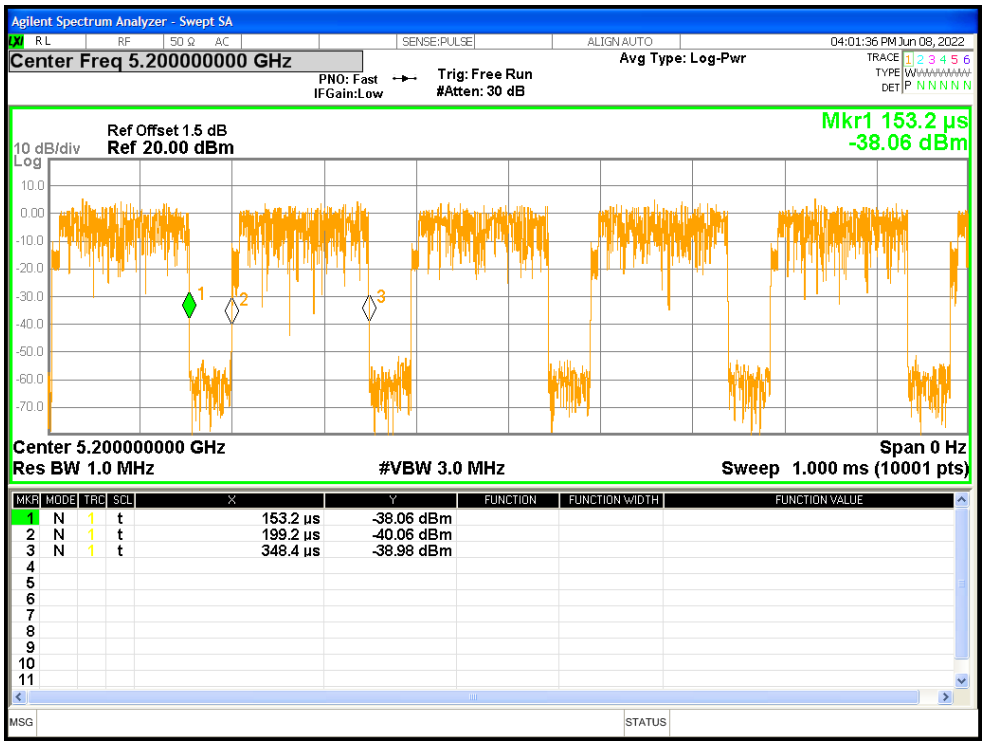
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	76.46	1.17	6.69
NVNT	a	5200	76.43	1.17	6.7
NVNT	a	5240	76.6	1.16	6.7
NVNT	n20	5180	79.05	1.02	5.64
NVNT	n20	5200	79.15	1.02	5.64
NVNT	n20	5240	79.15	1.02	5.64
NVNT	n40	5190	79.36	1	5.52
NVNT	n40	5230	79.43	1	5.52
NVNT	ac20	5180	77.89	1.09	6.05
NVNT	ac20	5200	77.93	1.08	6.05
NVNT	ac20	5240	77.91	1.08	6.06
NVNT	ac40	5190	77.11	1.13	6.36
NVNT	ac40	5230	76.96	1.14	6.36
NVNT	ac80	5210	77.82	1.09	6.05
NVNT	ax20	5180	84.58	0.73	3.86
NVNT	ax20	5200	84.63	0.72	3.86
NVNT	ax20	5240	84.55	0.73	3.86
NVNT	ax40	5190	78.8	1.03	5.64
NVNT	ax40	5230	79.16	1.01	5.64
NVNT	ax80	5210	77.64	1.1	6.12

Test Graphs

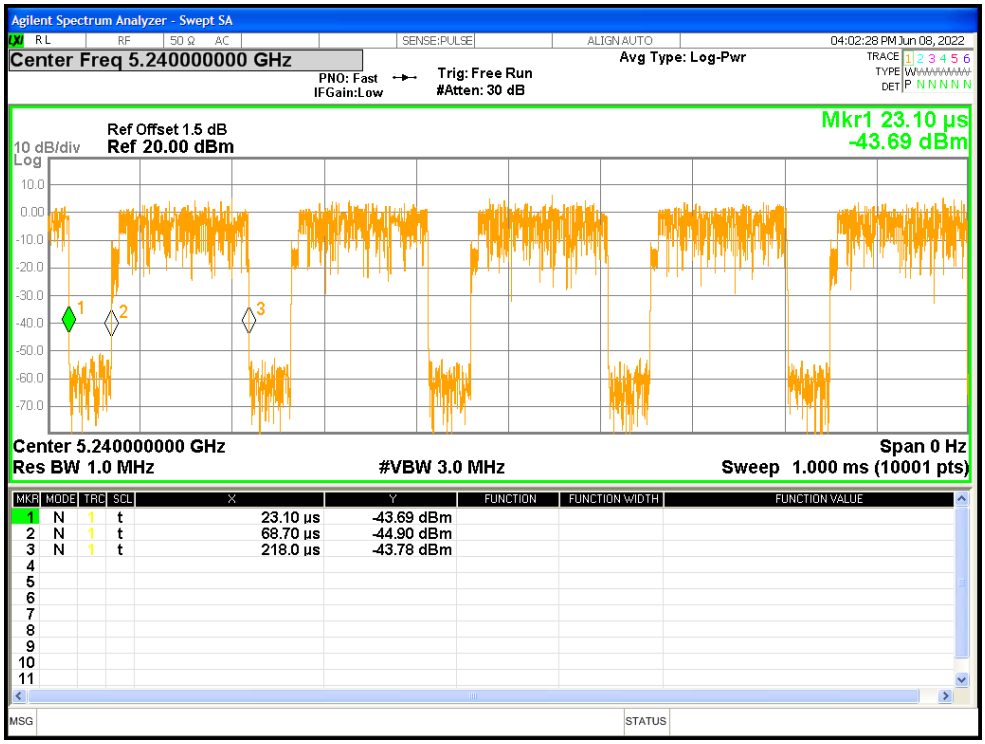
Duty Cycle NVNT a 5180MHz



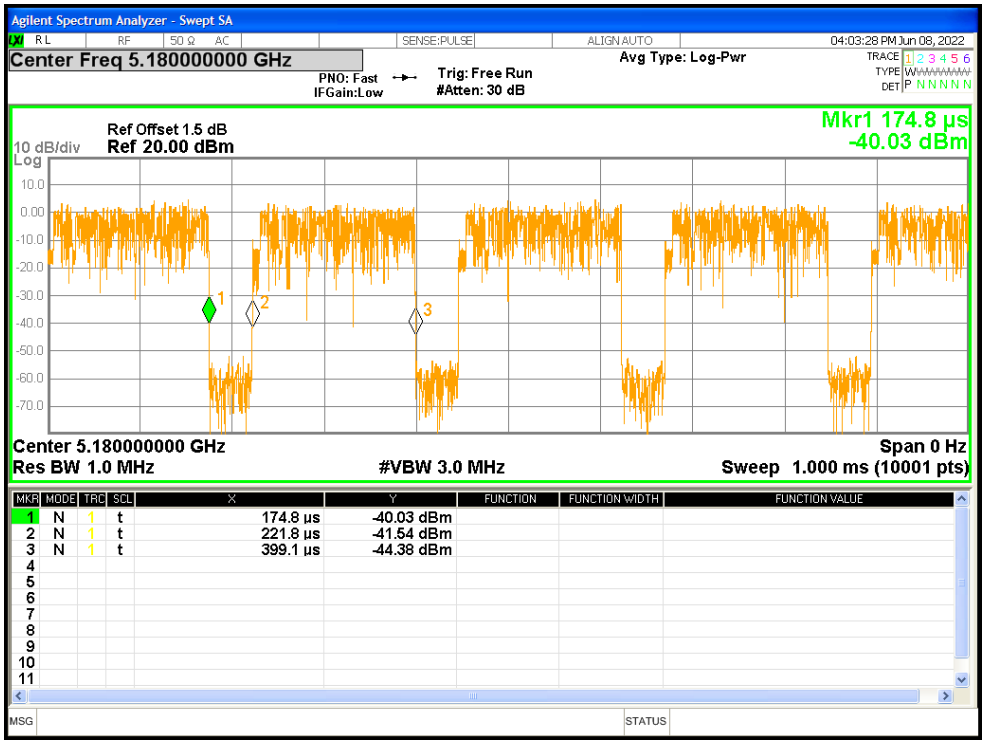
Duty Cycle NVNT a 5200MHz



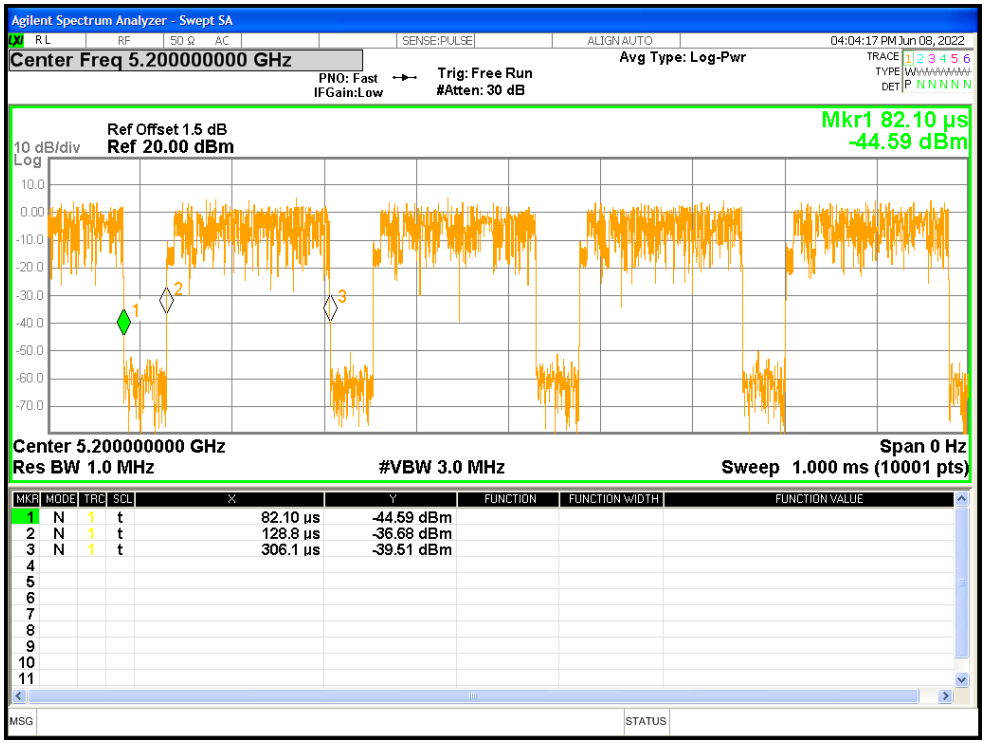
Duty Cycle NVNT a 5240MHz



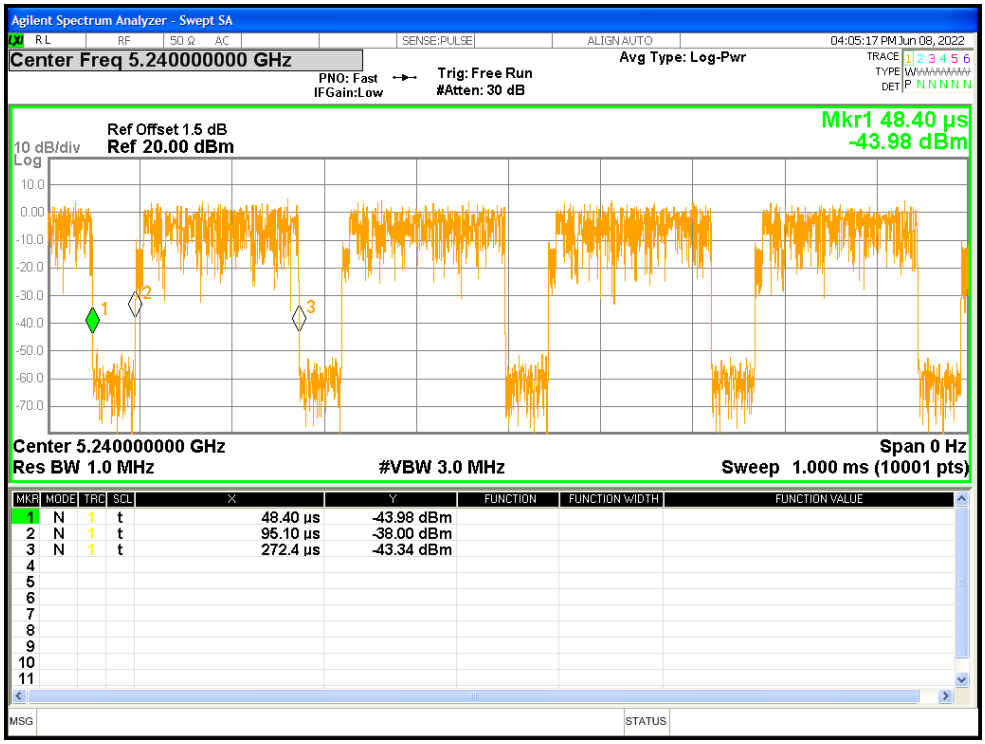
Duty Cycle NVNT n20 5180MHz



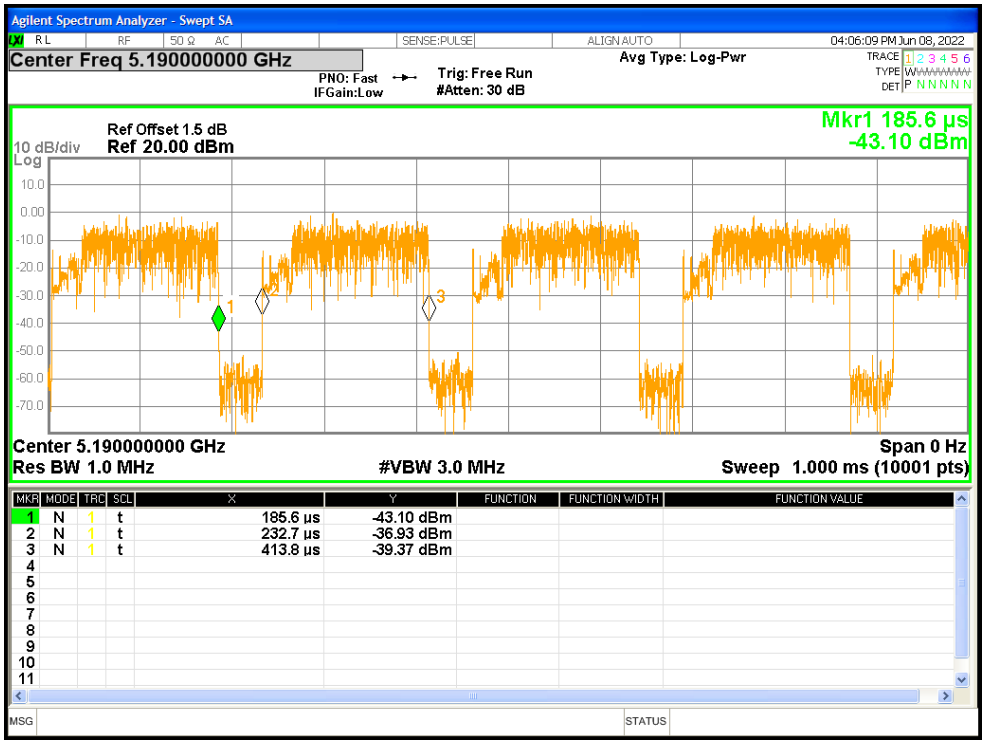
Duty Cycle NVNT n20 5200MHz



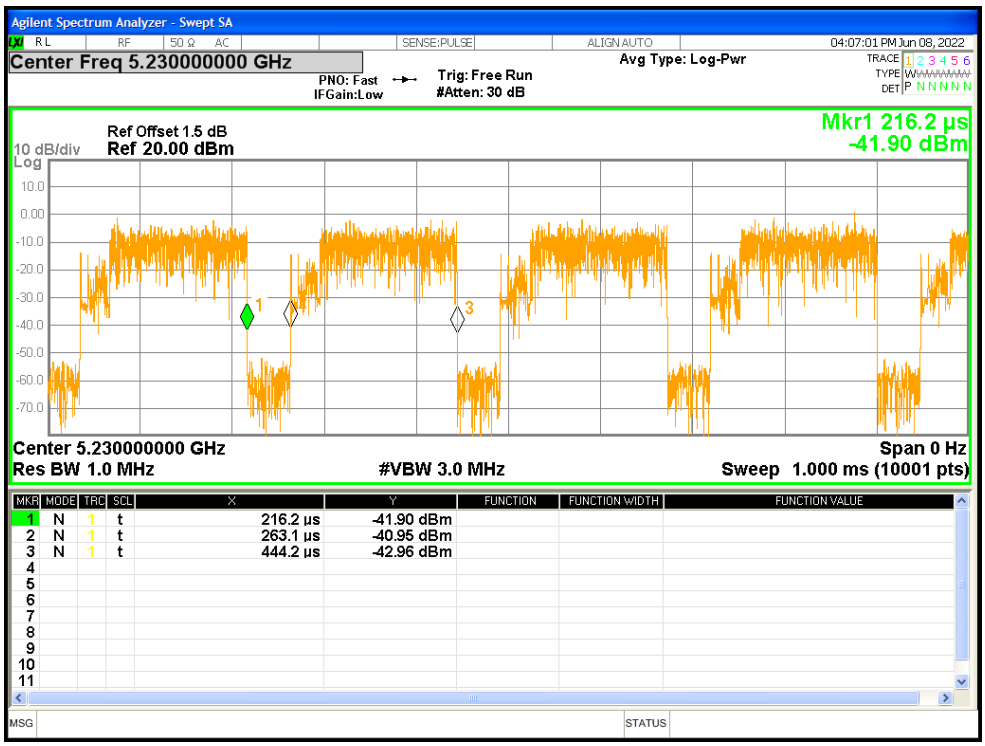
Duty Cycle NVNT n20 5240MHz



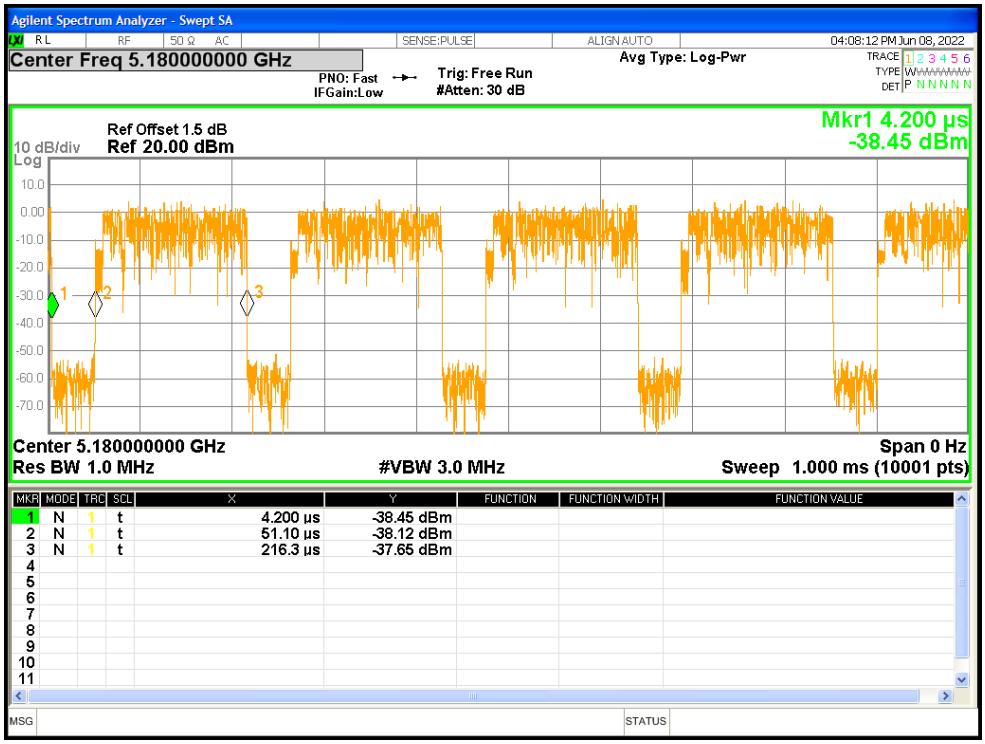
Duty Cycle NVNT n40 5190MHz



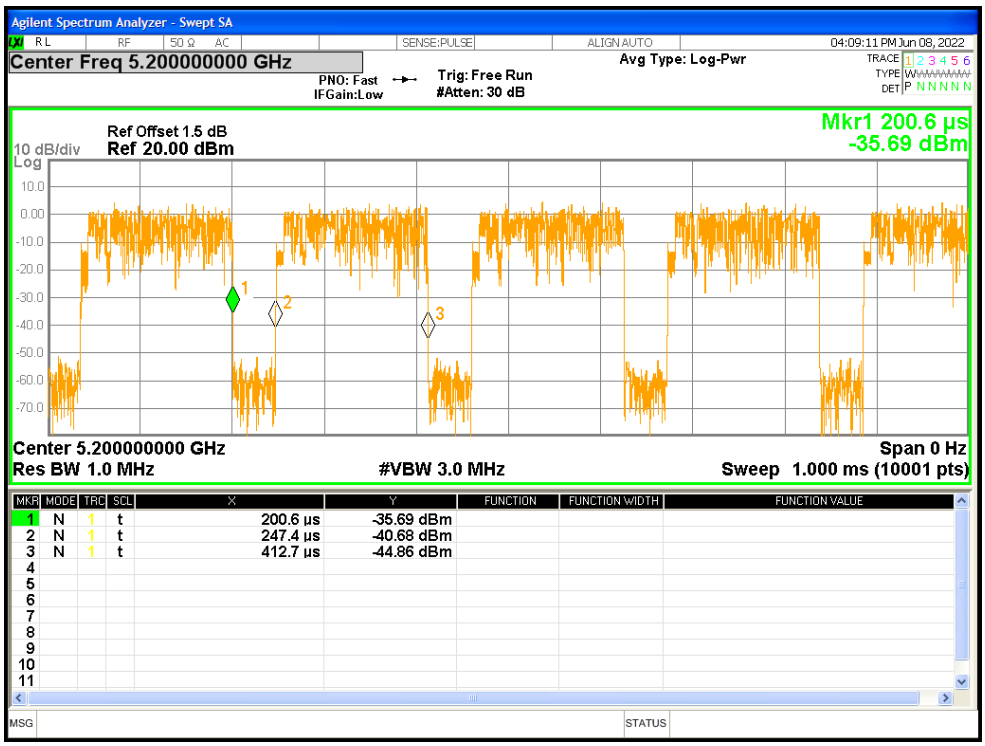
Duty Cycle NVNT n40 5230MHz



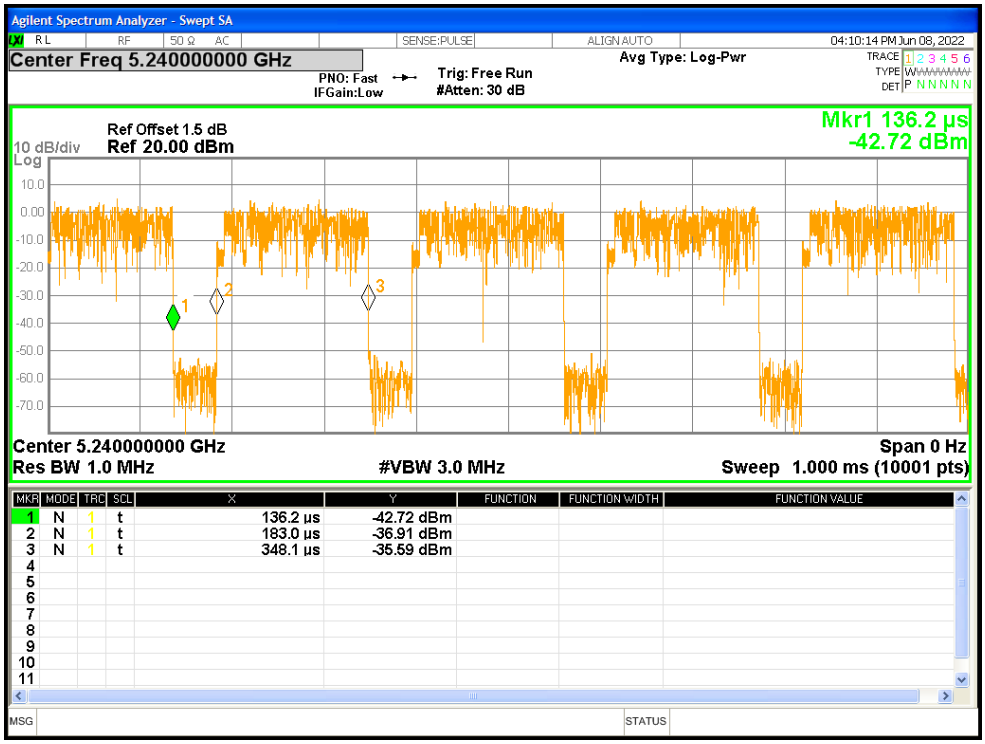
Duty Cycle NVNT ac20 5180MHz



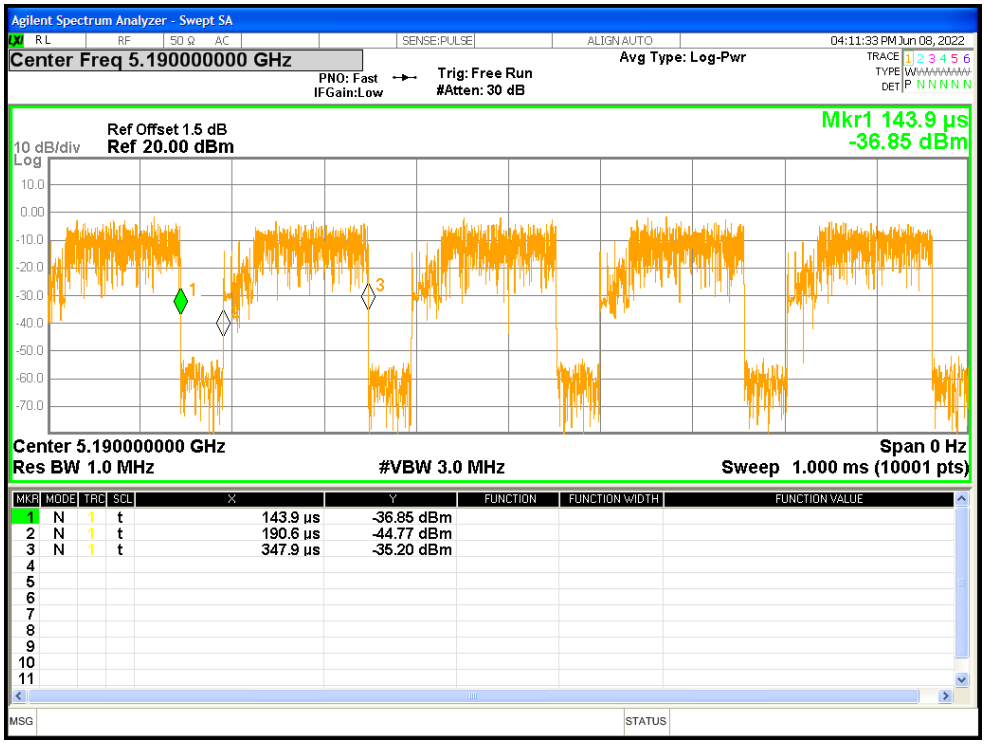
Duty Cycle NVNT ac20 5200MHz



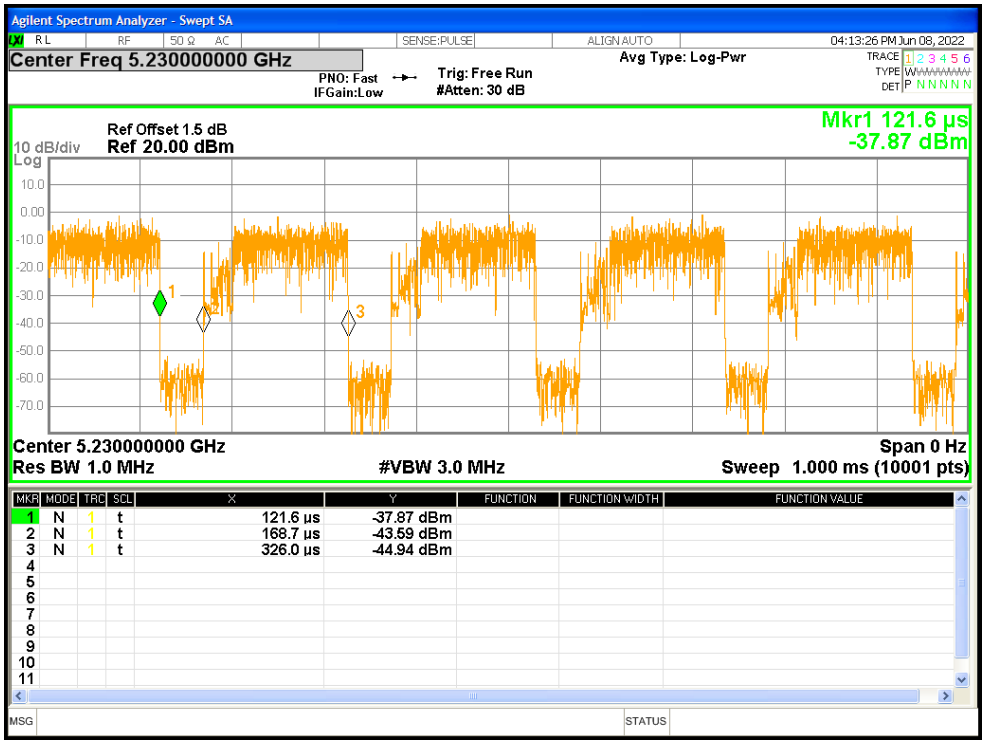
Duty Cycle NVNT ac20 5240MHz



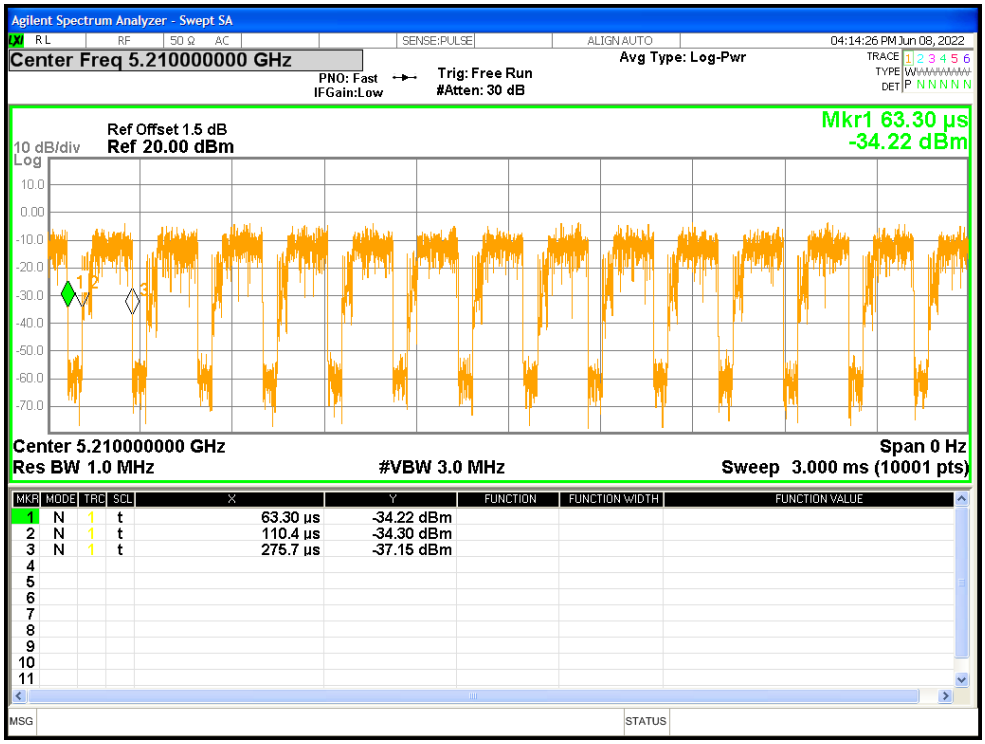
Duty Cycle NVNT ac40 5190MHz



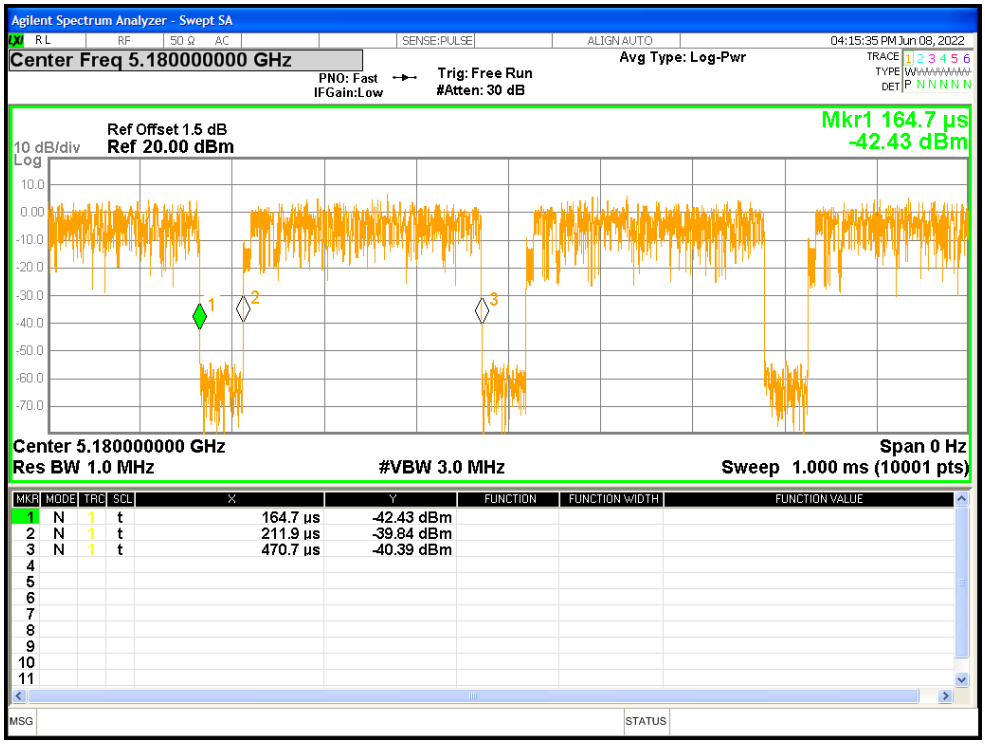
Duty Cycle NVNT ac40 5230MHz



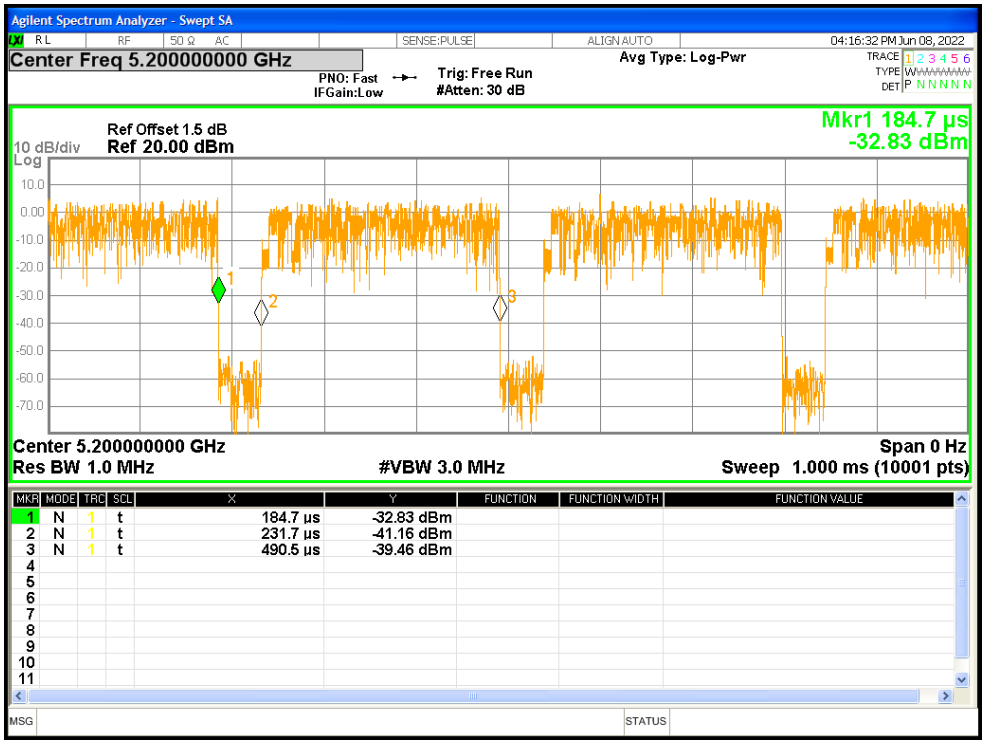
Duty Cycle NVNT ac80 5210MHz



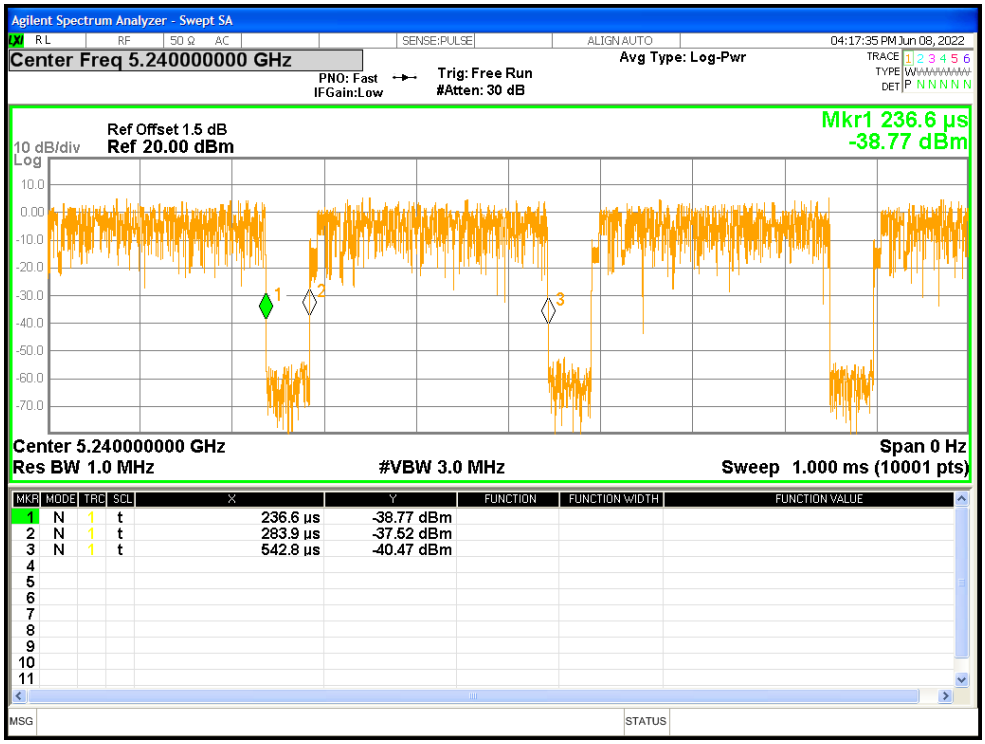
Duty Cycle NVNT ax20 5180MHz



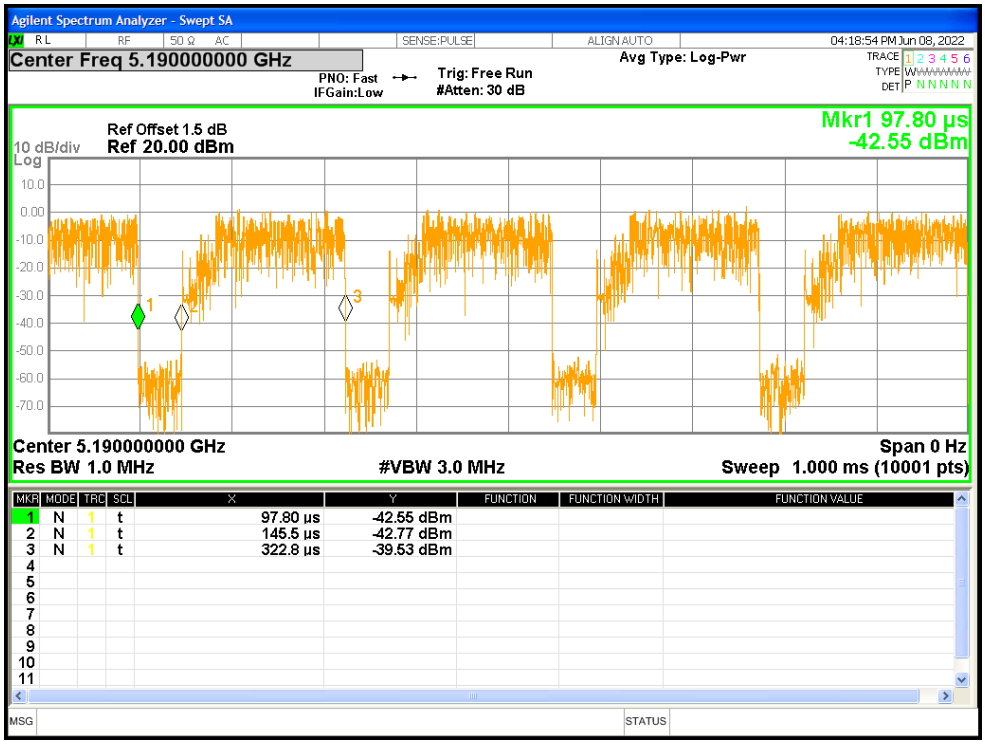
Duty Cycle NVNT ax20 5200MHz



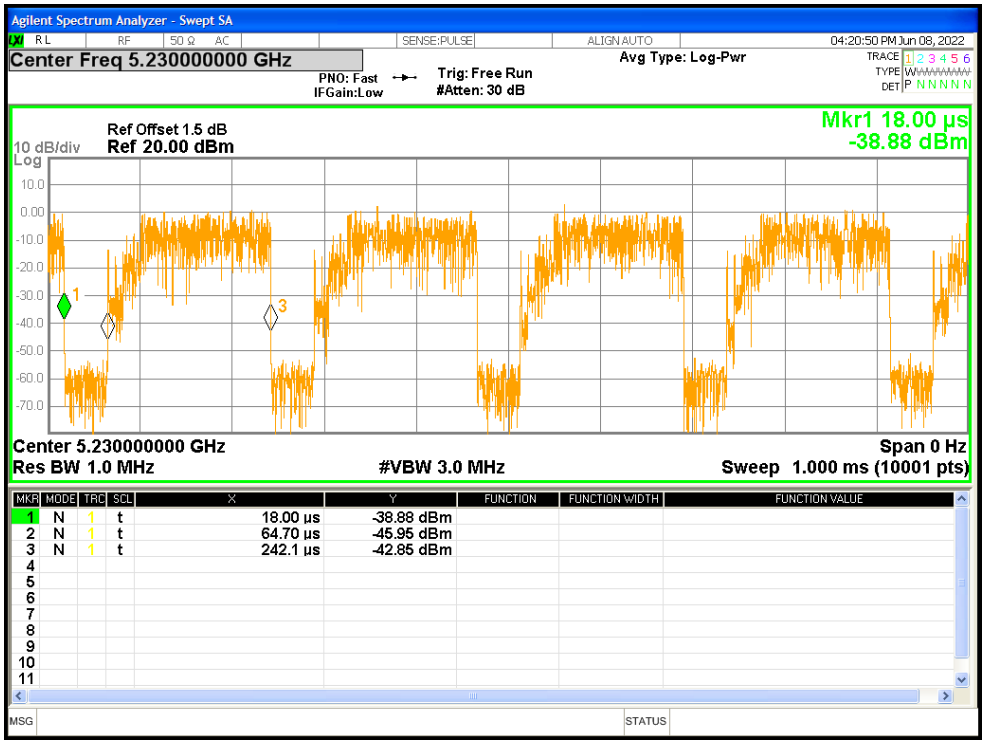
Duty Cycle NVNT ax20 5240MHz



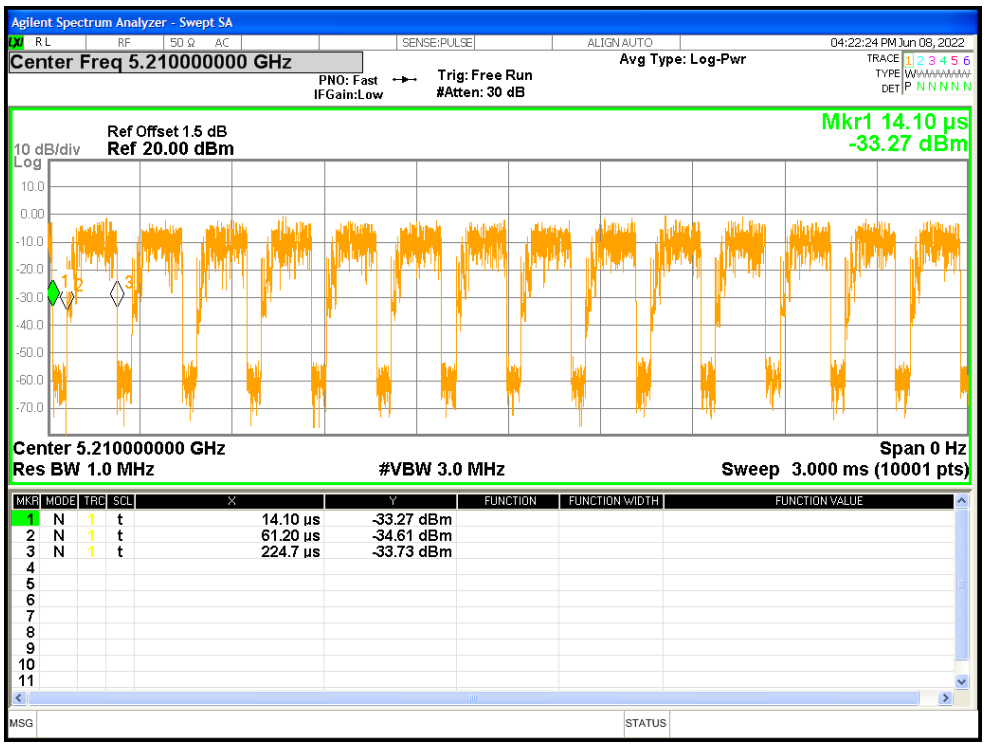
Duty Cycle NVNT ax40 5190MHz



Duty Cycle NVNT ax40 5230MHz



Duty Cycle NVNT ax80 5210MHz

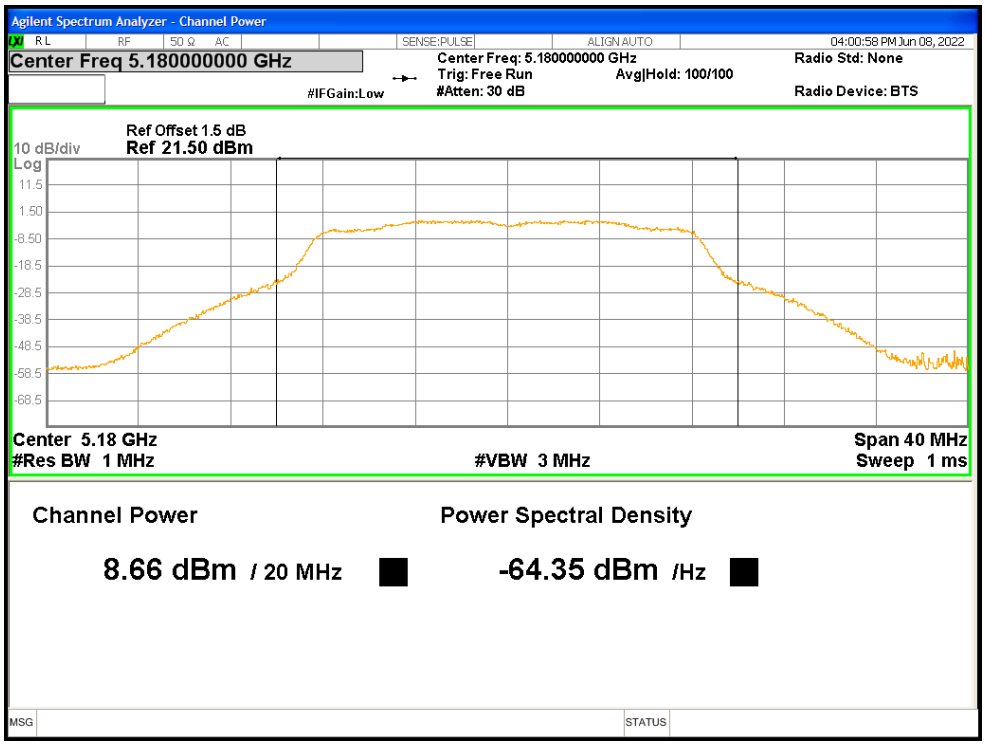


Maximum Conducted Output Power

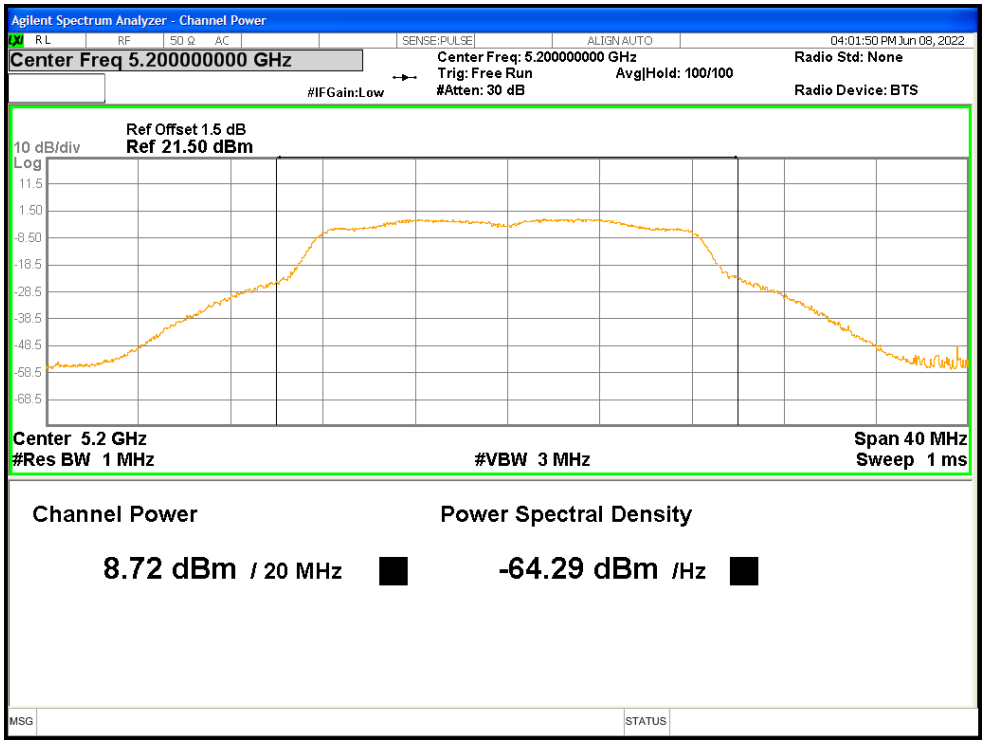
Band I (5.15-5.25GHz)								
Test Channel	Frequency (MHz)	Direct measurement Ant_A AV Power (dBm)	Direct measurement Ant B_AV Power (dBm)	Duty cycle factor (dB)	Final Ant_A AV Power (dBm)	Final Ant_B AV Power (dBm)	AV Power Total (dBm)	LIMIT (dBm)
802.11a								
36	5180	8.66	8.61	1.17	9.83	9.78	--	23.98
40	5200	8.72	8.71	1.17	9.89	9.88	--	23.98
48	5240	8.84	8.67	1.16	10.00	9.83	--	23.98
802.11n(HT20)								
36	5180	8.74	8.6	1.02	9.76	9.62	12.70	23.98
40	5200	8.77	8.76	1.02	9.79	9.78	12.80	23.98
48	5240	9.01	8.8	1.02	10.03	9.82	12.94	23.98
802.11n(HT40)								
38	5190	9.39	9.18	1.00	10.39	10.18	13.30	23.98
46	5230	9.36	9.26	1.00	10.36	10.26	13.32	23.98
802.11ac(VHT20)								
36	5180	8.68	8.61	1.09	9.77	9.70	12.75	23.98
40	5200	8.59	8.71	1.08	9.67	9.79	12.74	23.98
48	5240	8.68	8.69	1.08	9.76	9.77	12.78	23.98
802.11ac(VHT40)								
38	5190	9.1	9.04	1.13	10.23	10.17	13.21	23.98
46	5230	9.11	9.06	1.14	10.25	10.20	13.24	23.98
802.11ac(VHT80)								
42	5210	9.37	9.01	1.09	10.46	10.10	13.29	23.98
802.11ax(HE20)								
36	5180	9.28	9.03	0.73	10.01	9.76	12.90	23.98
40	5200	9.42	9.12	0.72	10.14	9.84	13.00	23.98
48	5240	9.37	9.12	0.73	10.10	9.85	12.99	23.98
802.11ax(HE40)								
38	5190	8.85	8.79	1.03	9.88	9.82	12.86	23.98
46	5230	9.04	8.9	1.01	10.05	9.91	12.99	23.98
802.11ax(HE80)								
42	5210	8.91	8.75	1.10	10.01	9.85	12.94	23.98

ANT A

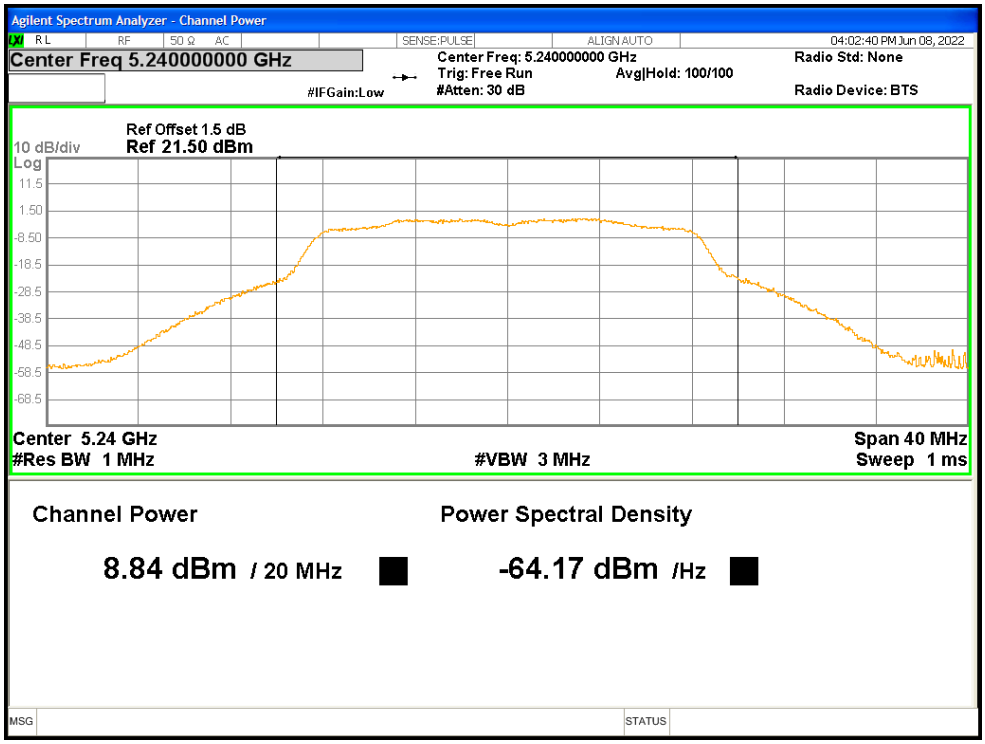
Test Graphs
Power NVNT a 5180MHz



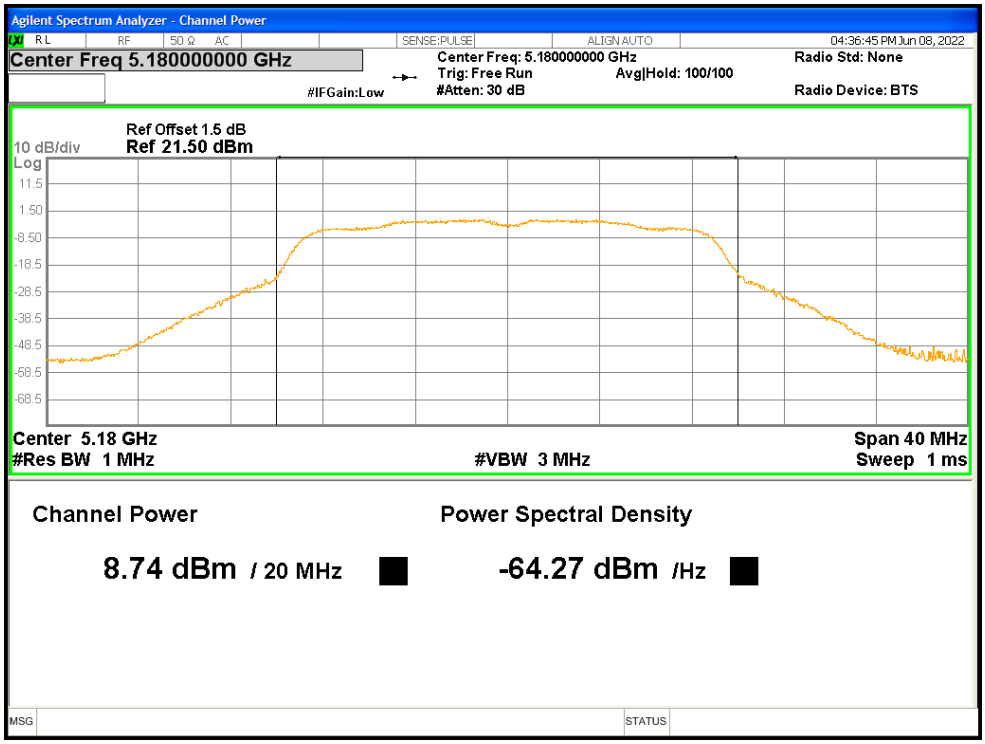
Power NVNT a 5200MHz



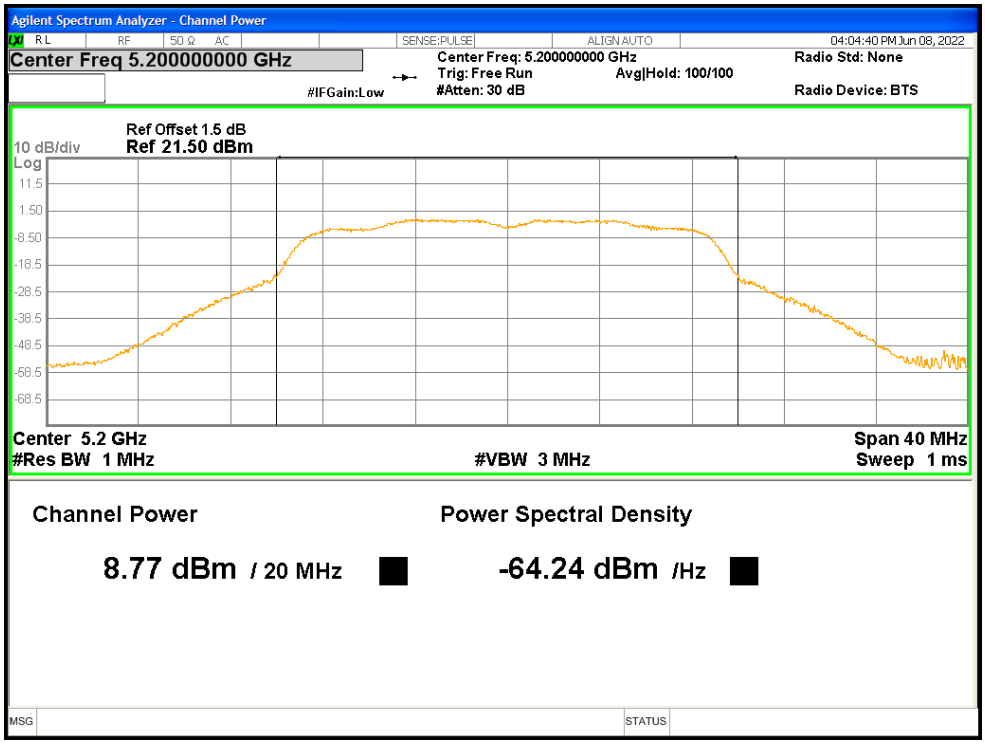
Power NVNT a 5240MHz



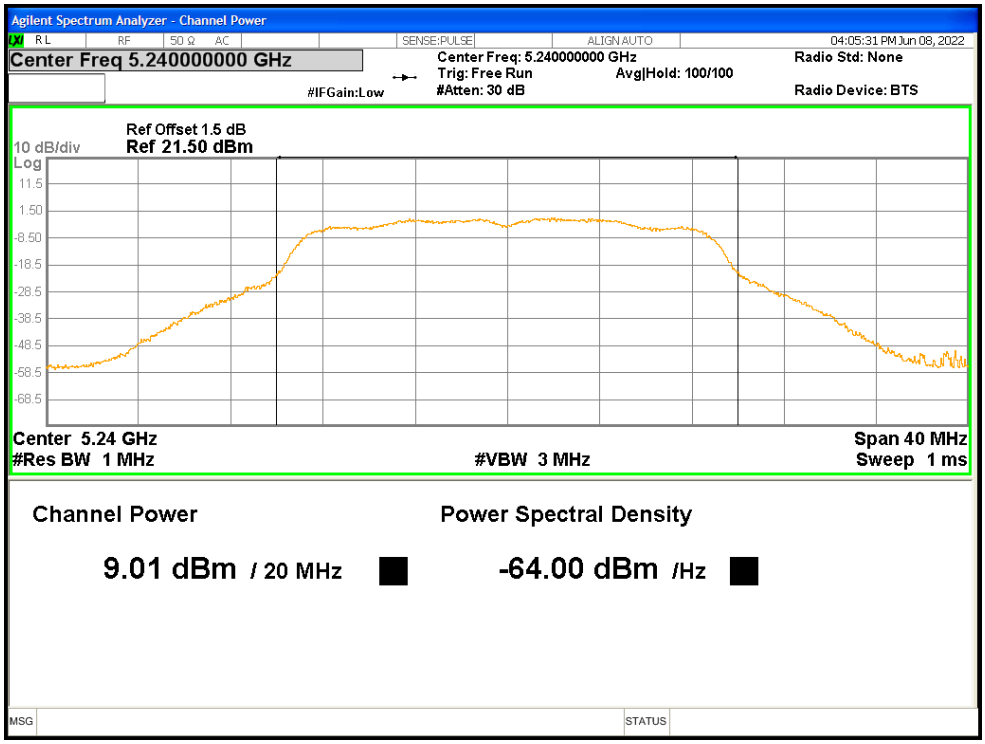
Power NVNT n20 5180MHz



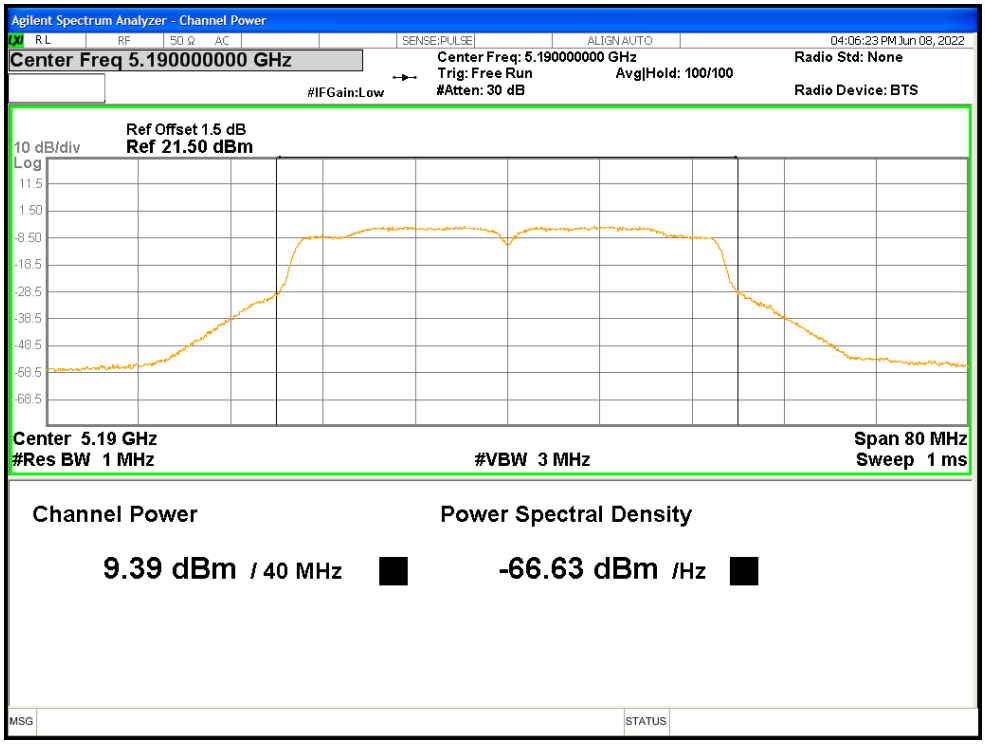
Power NVNT n20 5200MHz



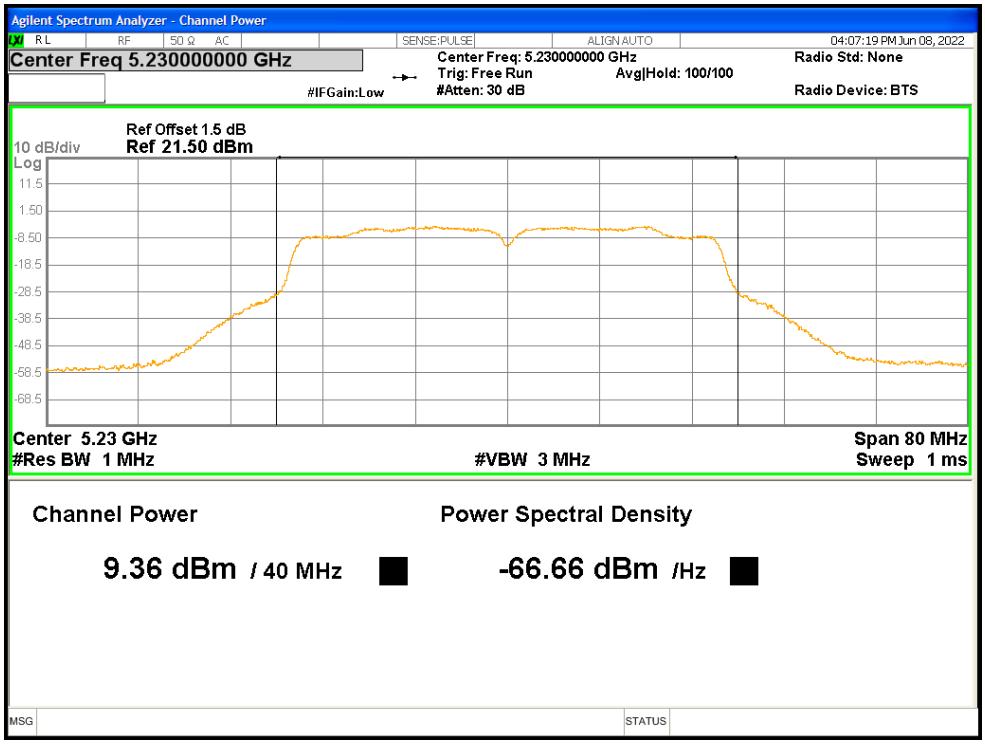
Power NVNT n20 5240MHz



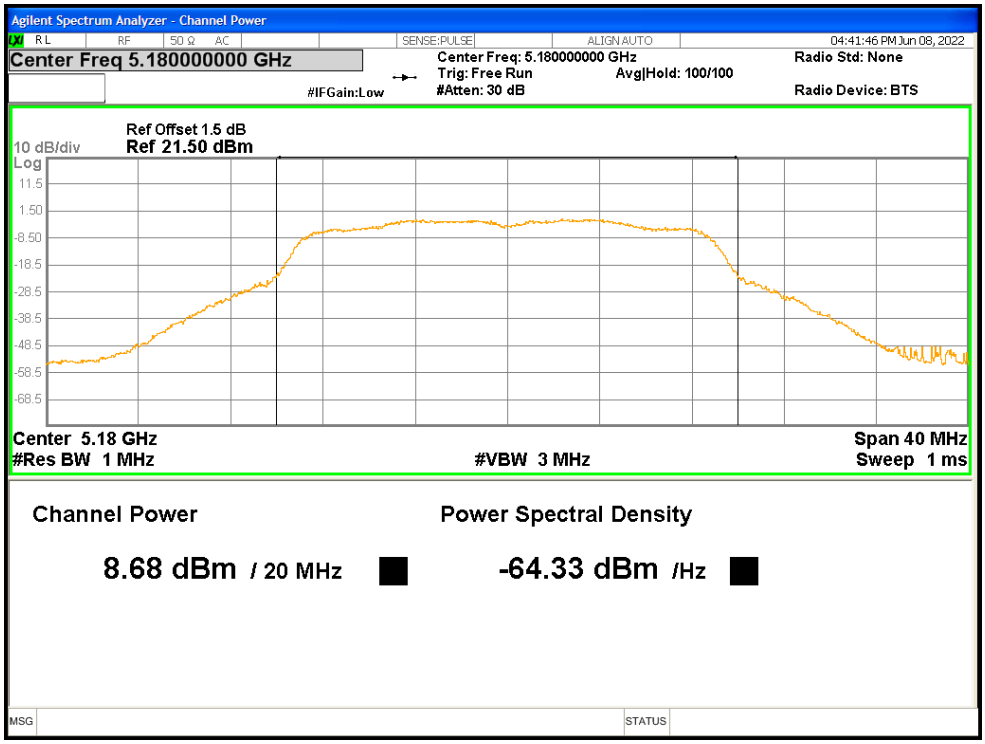
Power NVNT n40 5190MHz



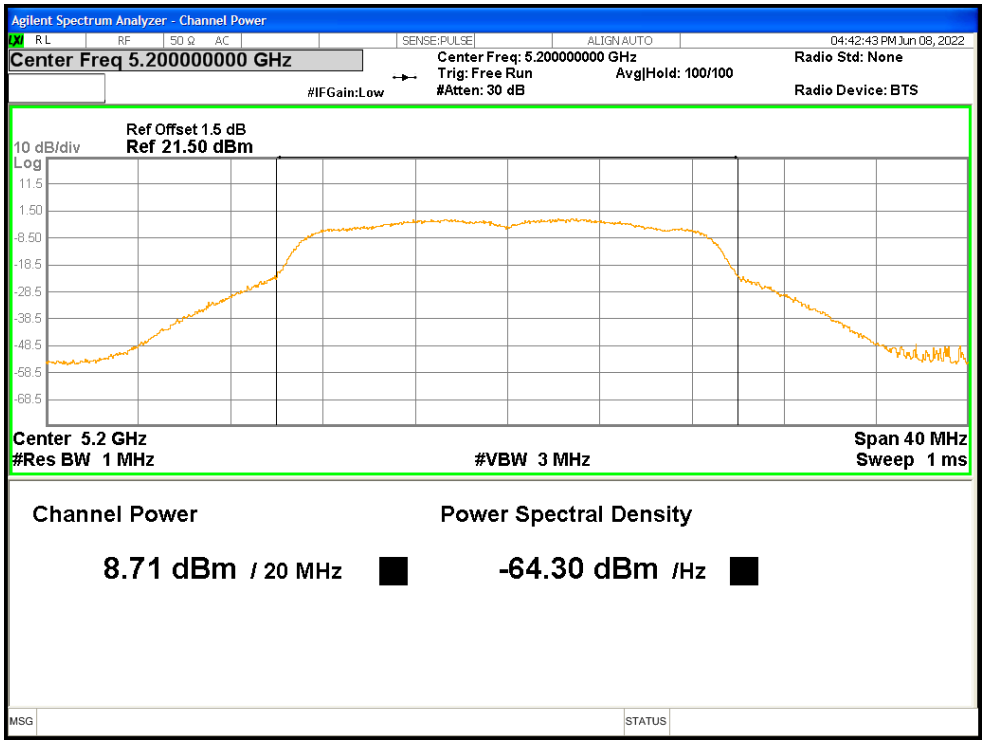
Power NVNT n40 5230MHz



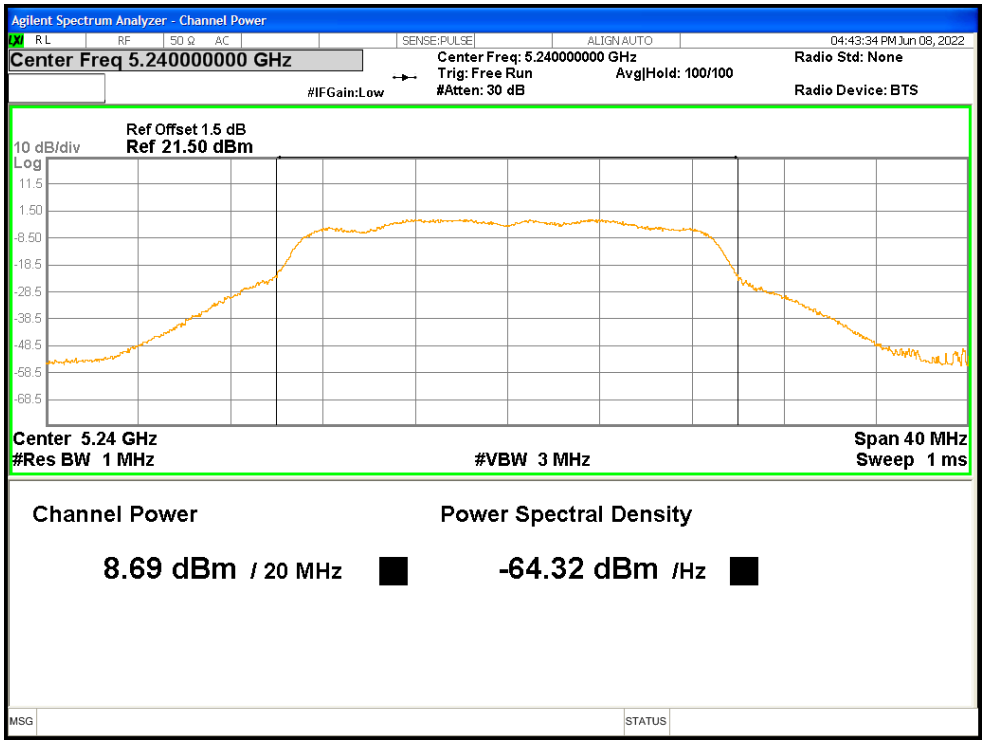
Power NVNT ac20 5180MHz



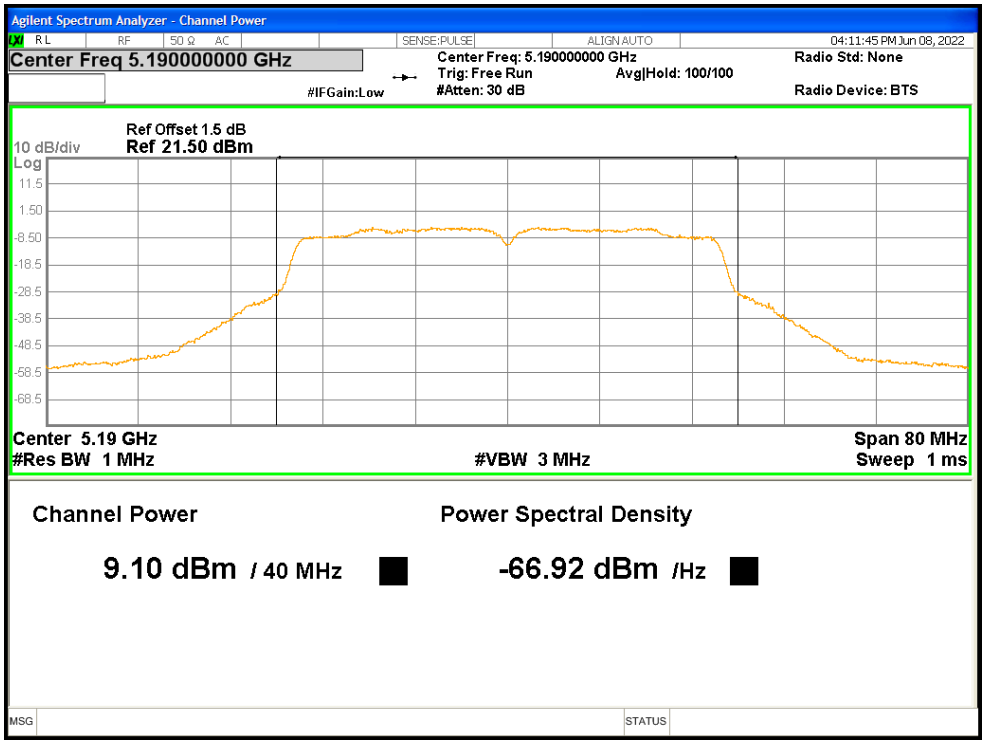
Power NVNT ac20 5200MHz



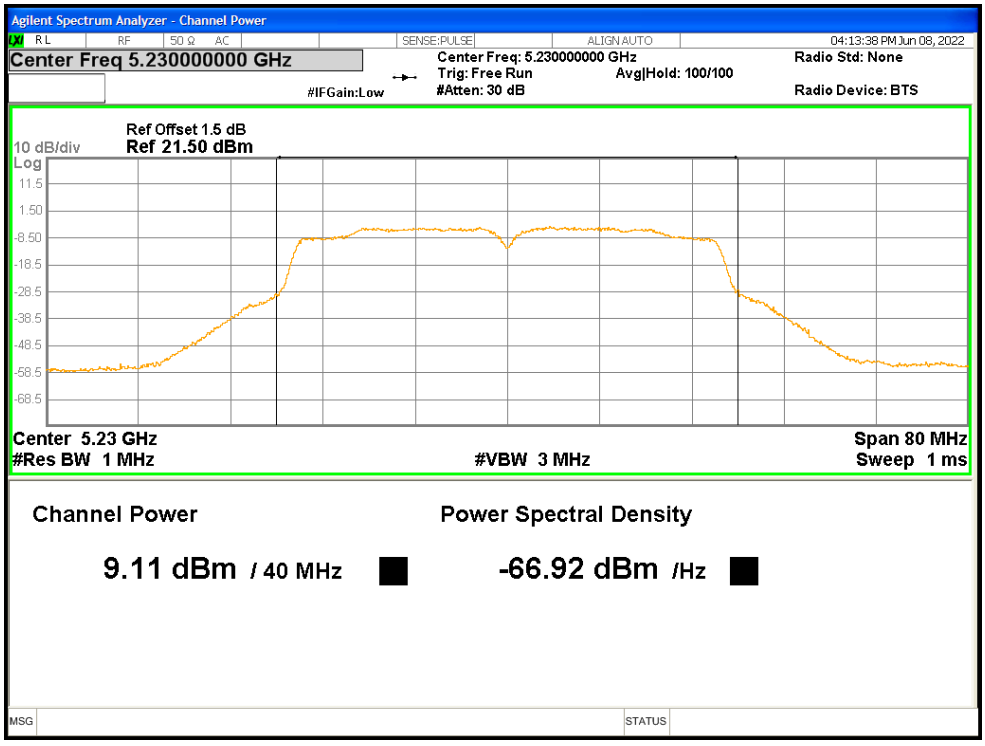
Power NVNT ac20 5240MHz



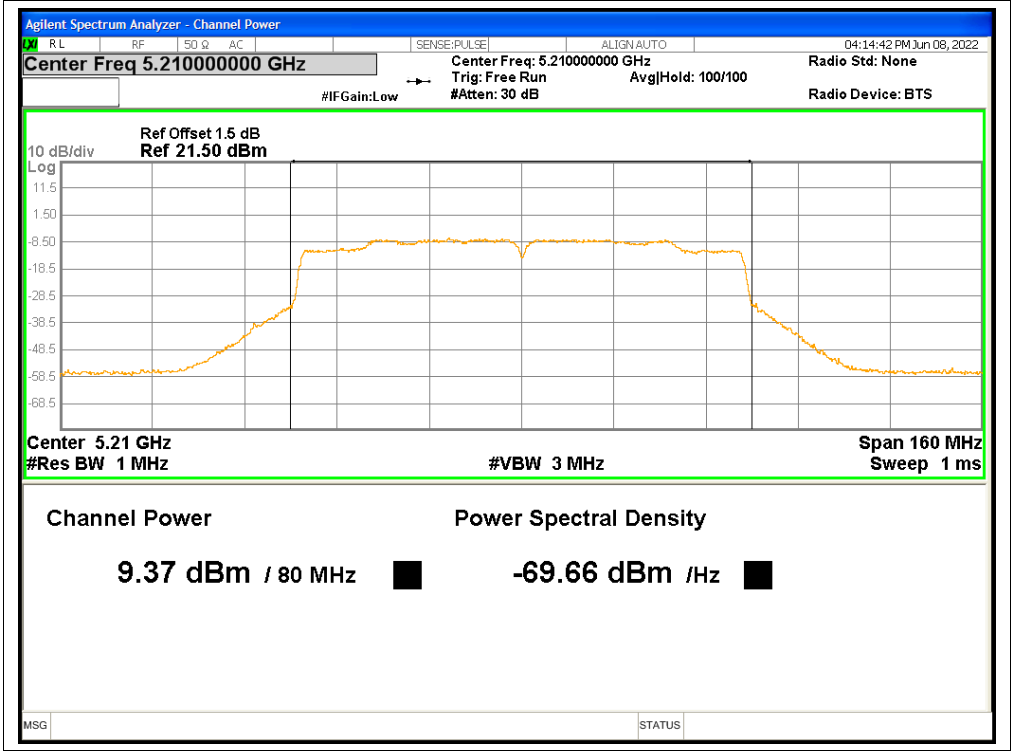
Power NVNT ac40 5190MHz



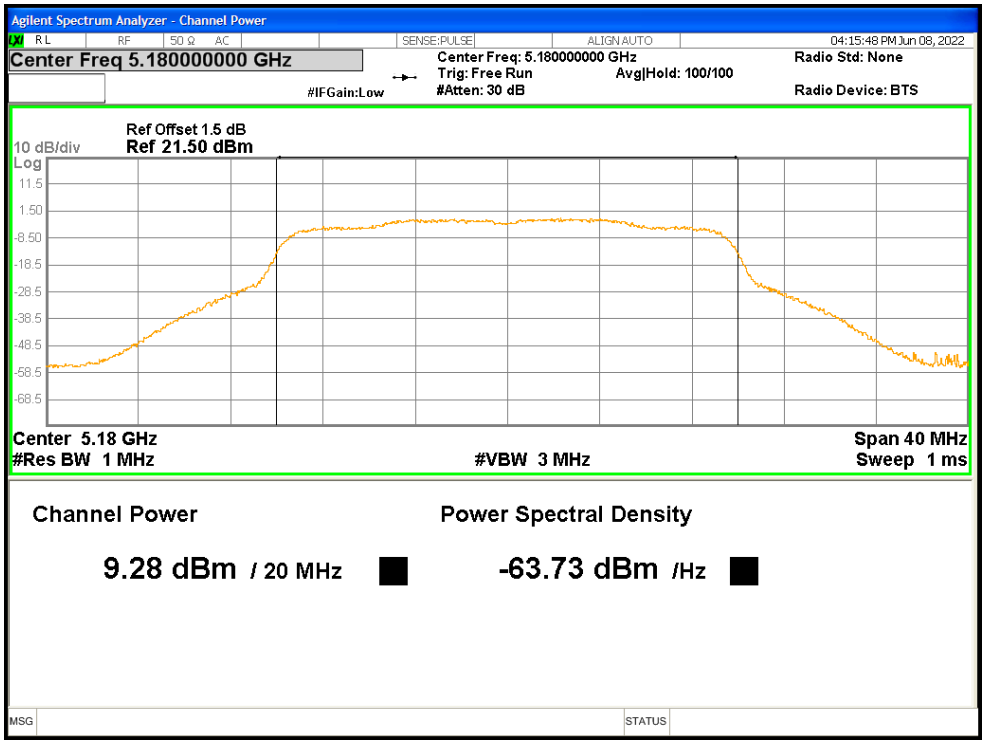
Power NVNT ac40 5230MHz



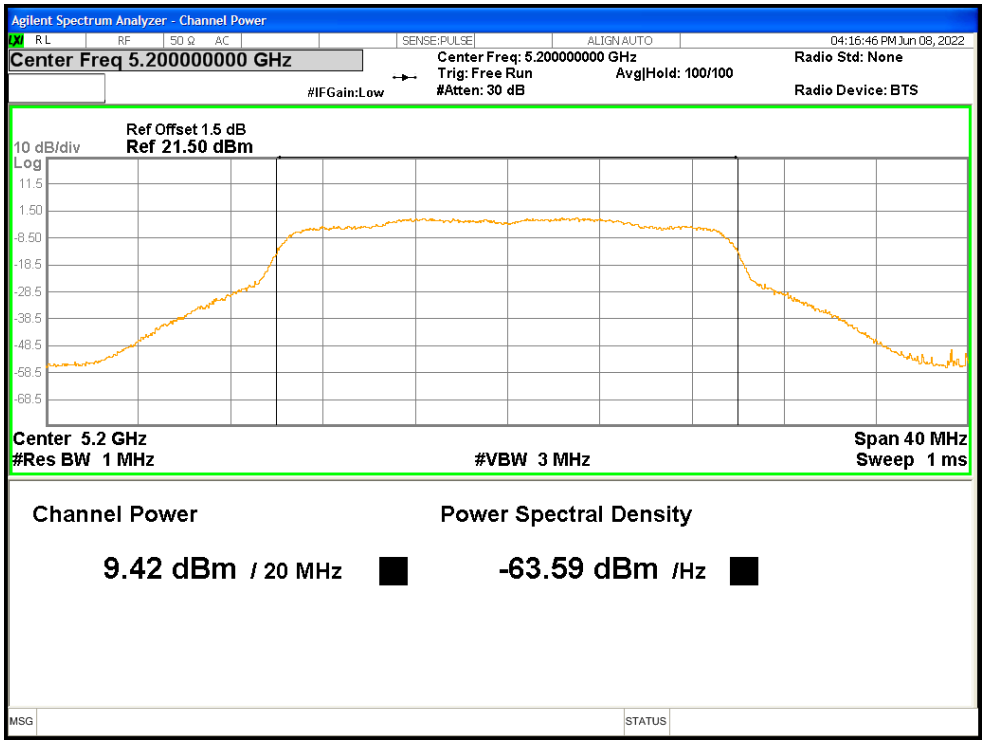
Power NVNT ac80 5210MHz



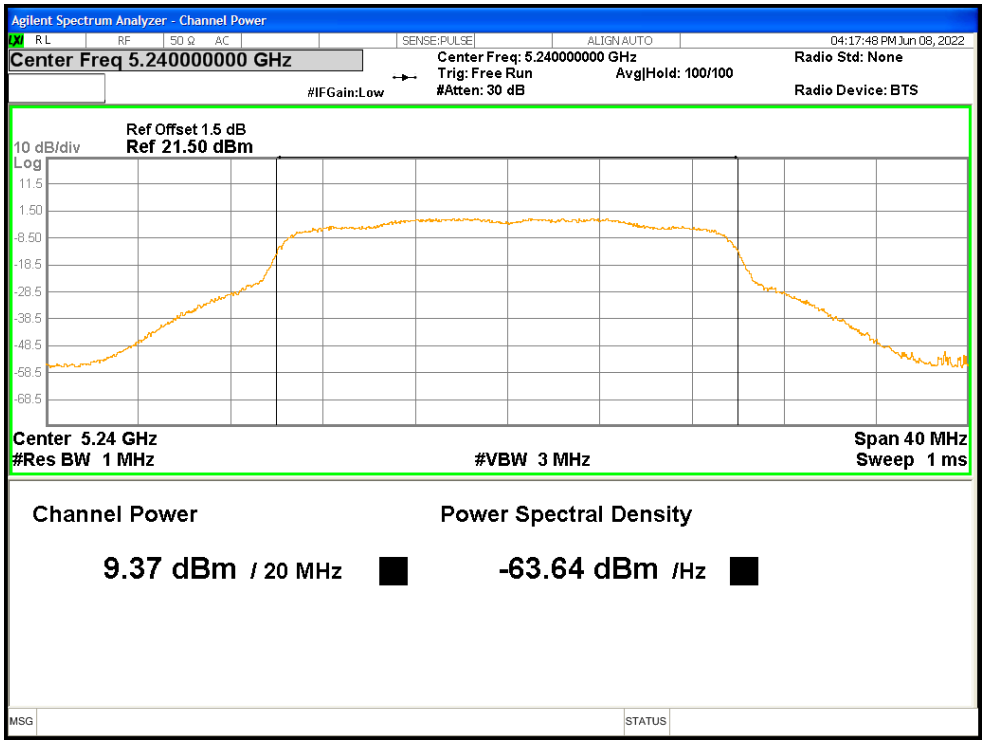
Power NVNT ax20 5180MHz



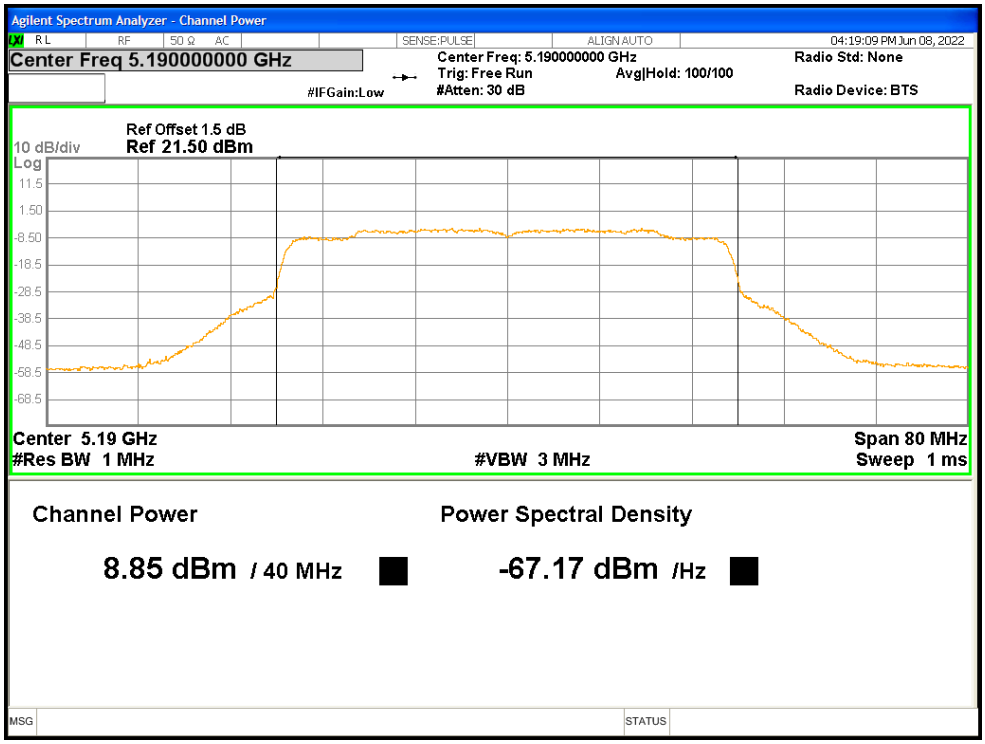
Power NVNT ax20 5200MHz



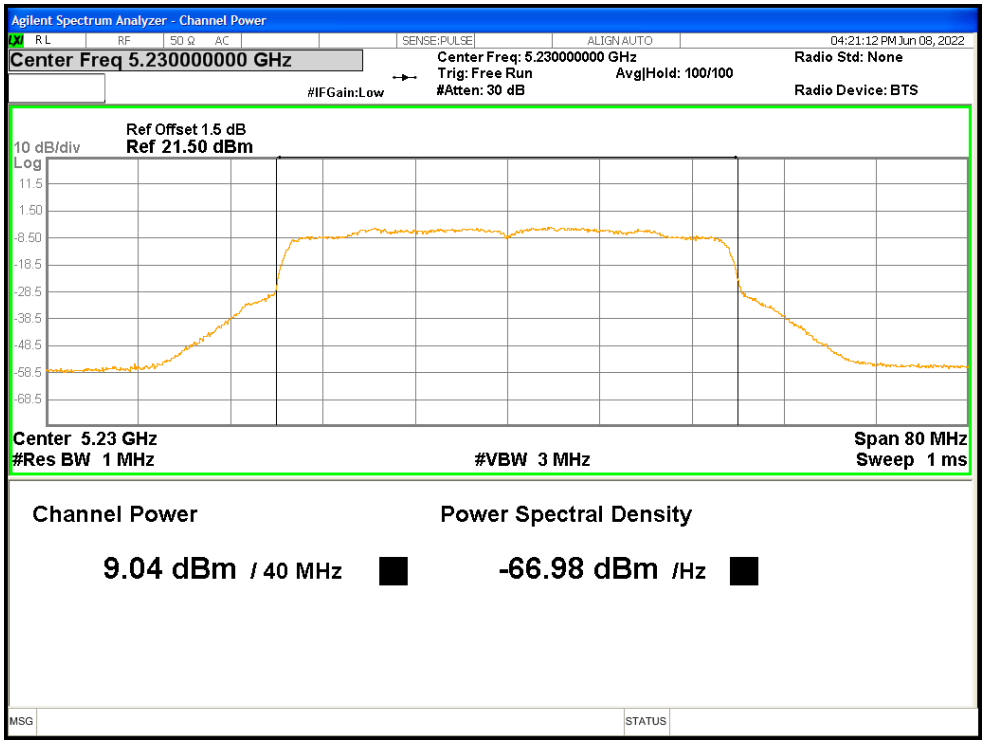
Power NVNT ax20 5240MHz



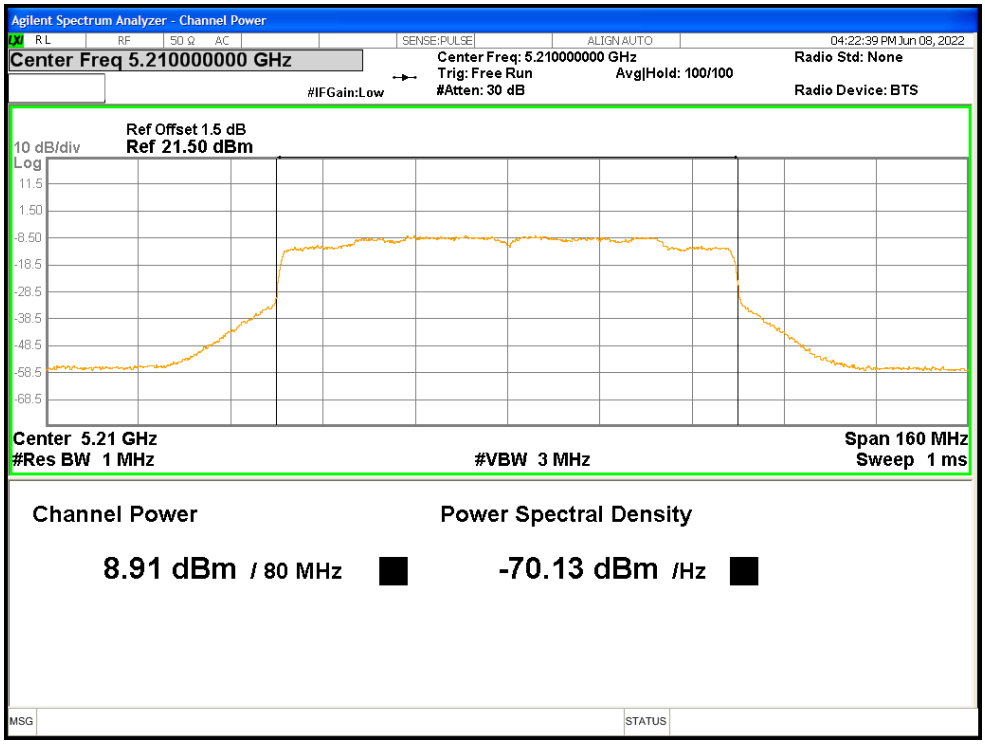
Power NVNT ax40 5190MHz



Power NVNT ax40 5230MHz



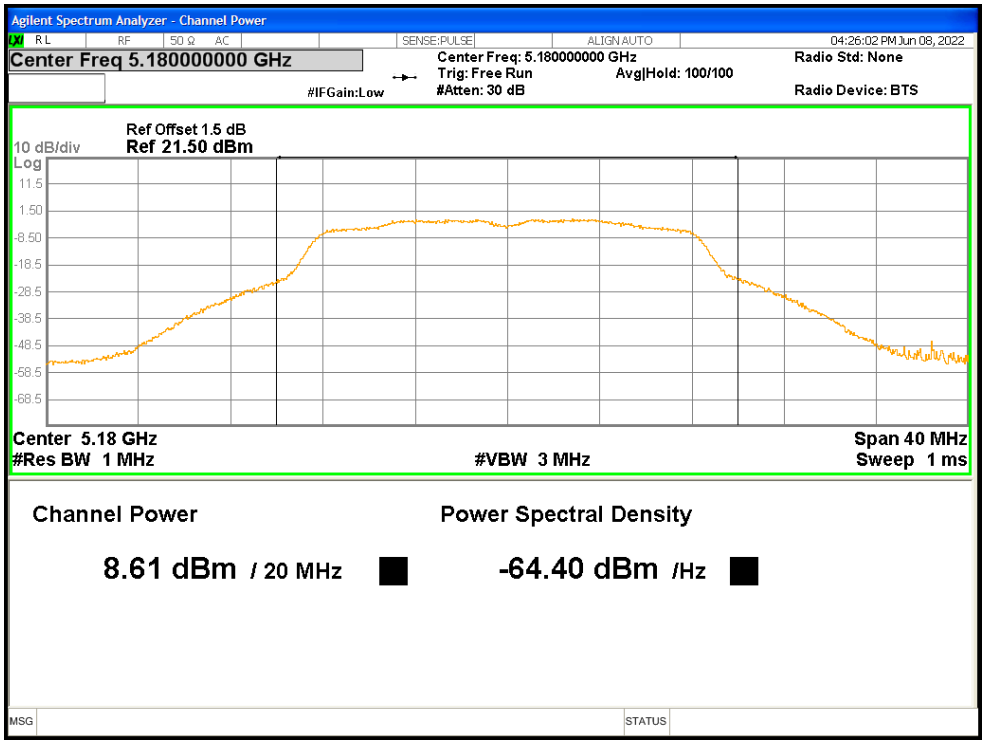
Power NVNT ax80 5210MHz



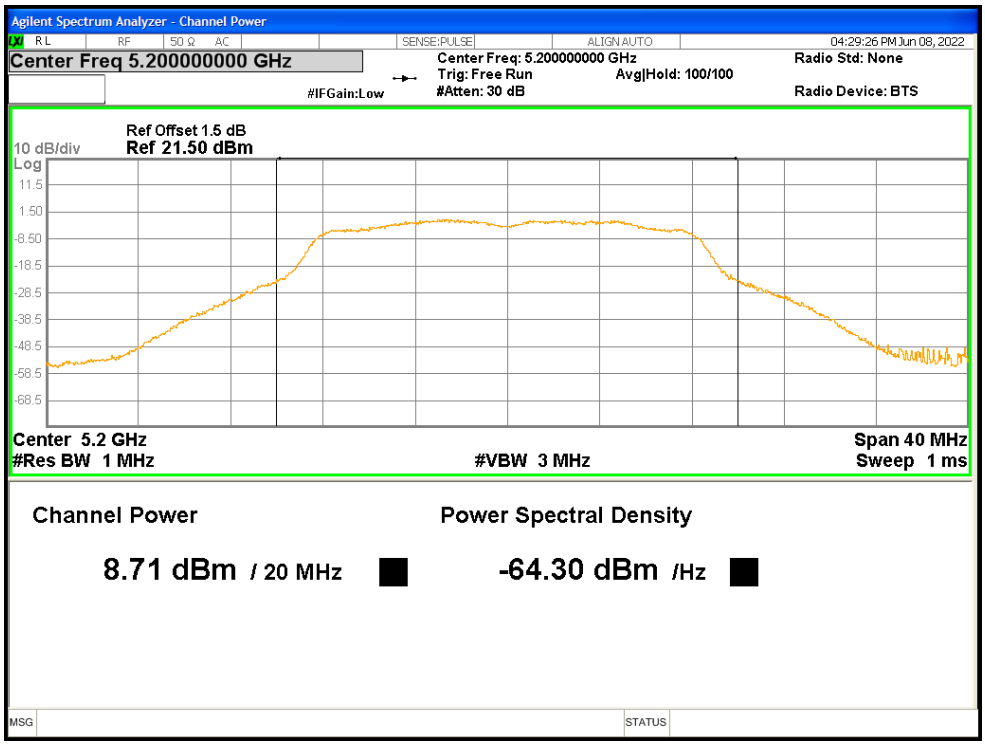
ANT B

Test Graphs

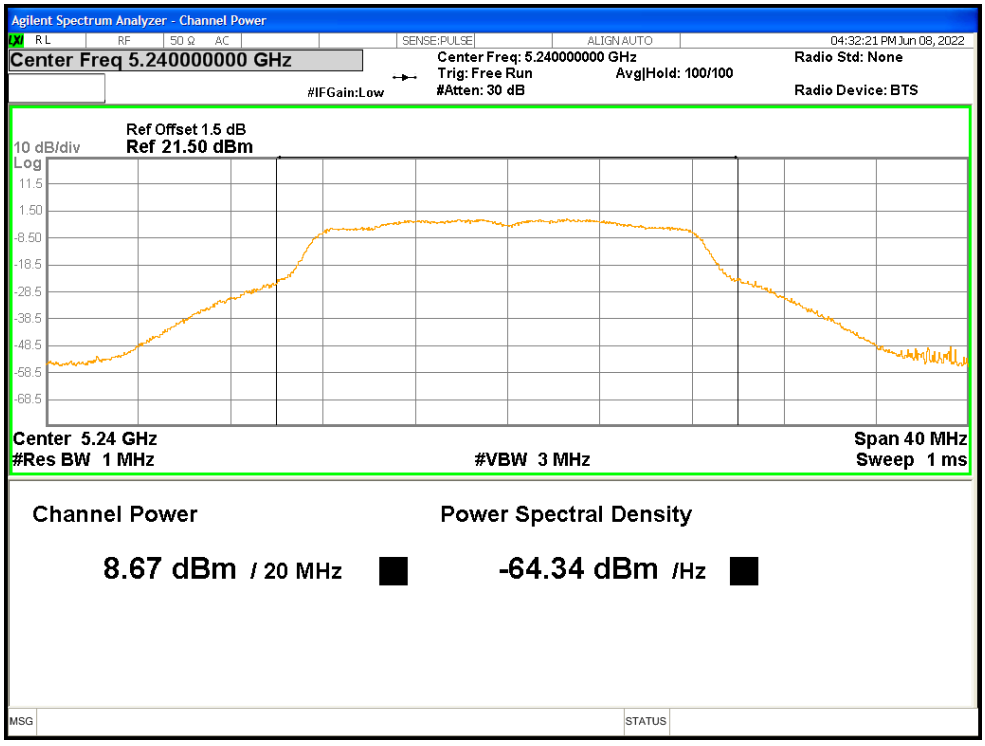
Power NVNT a 5180MHz



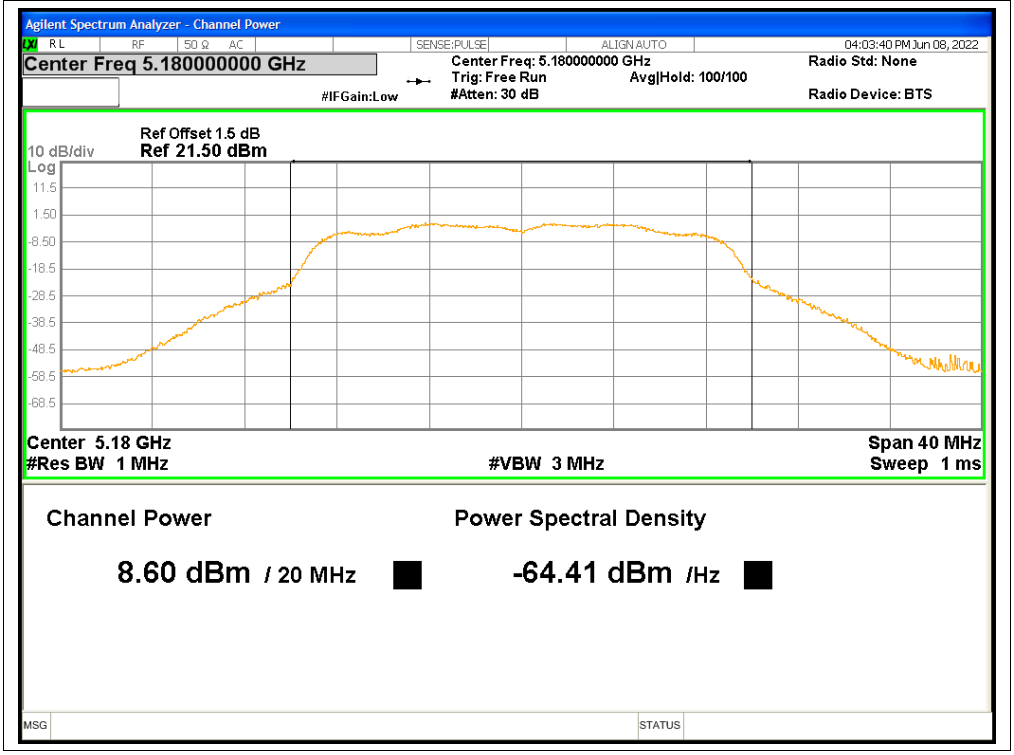
Power NVNT a 5200MHz



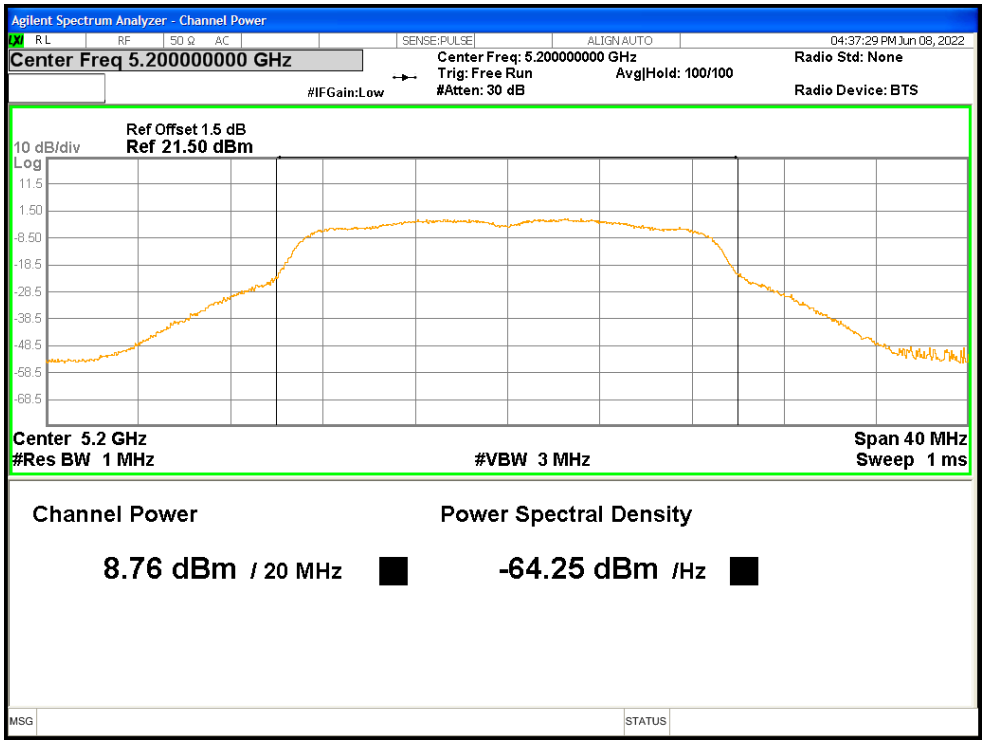
Power NVNT a 5240MHz



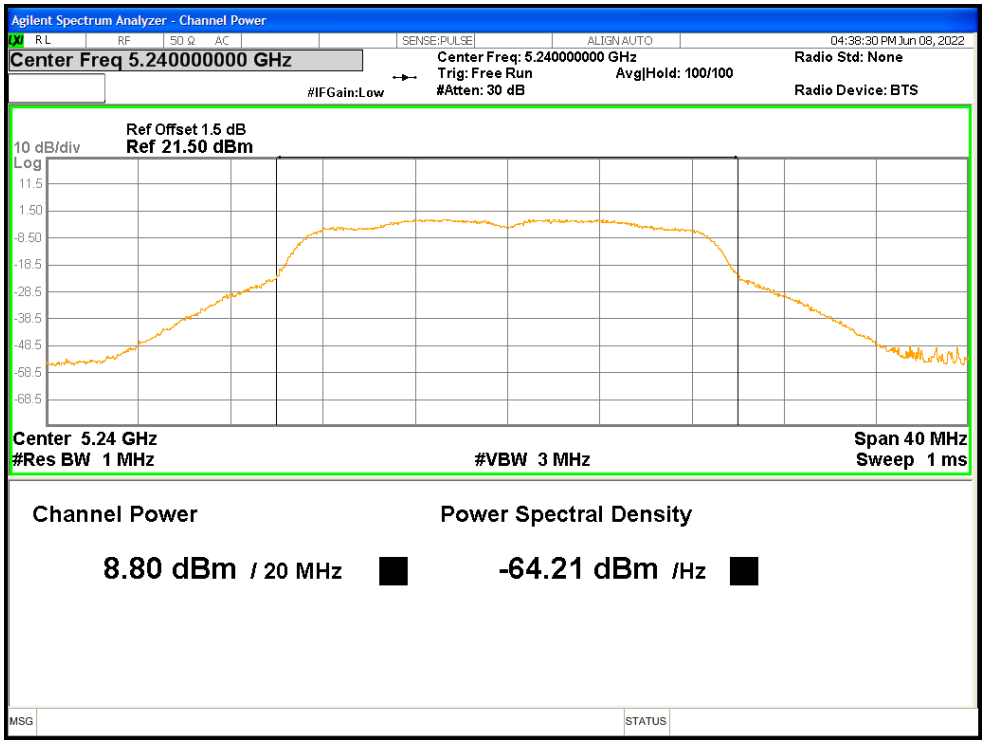
Power NVNT n20 5180MHz



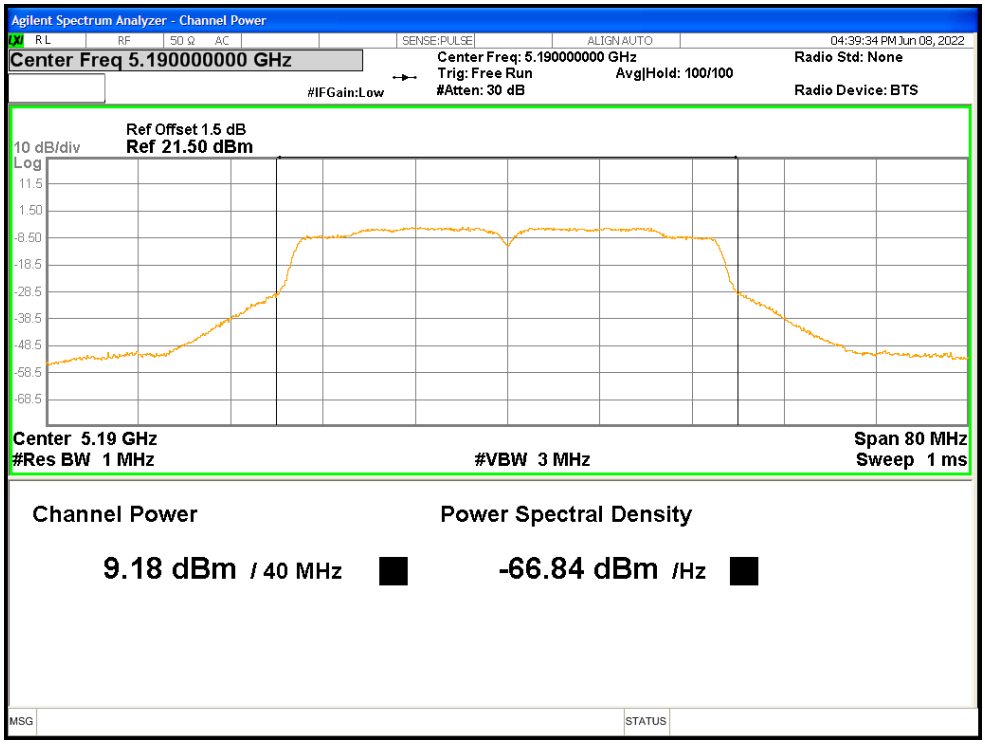
Power NVNT n20 5200MHz



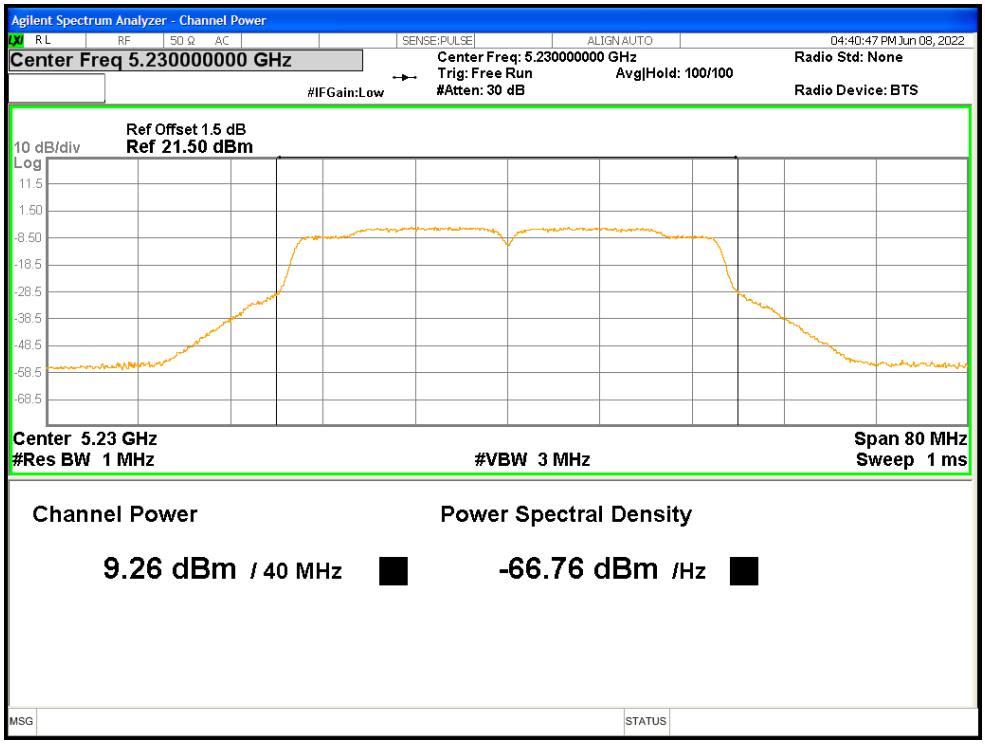
Power NVNT n20 5240MHz



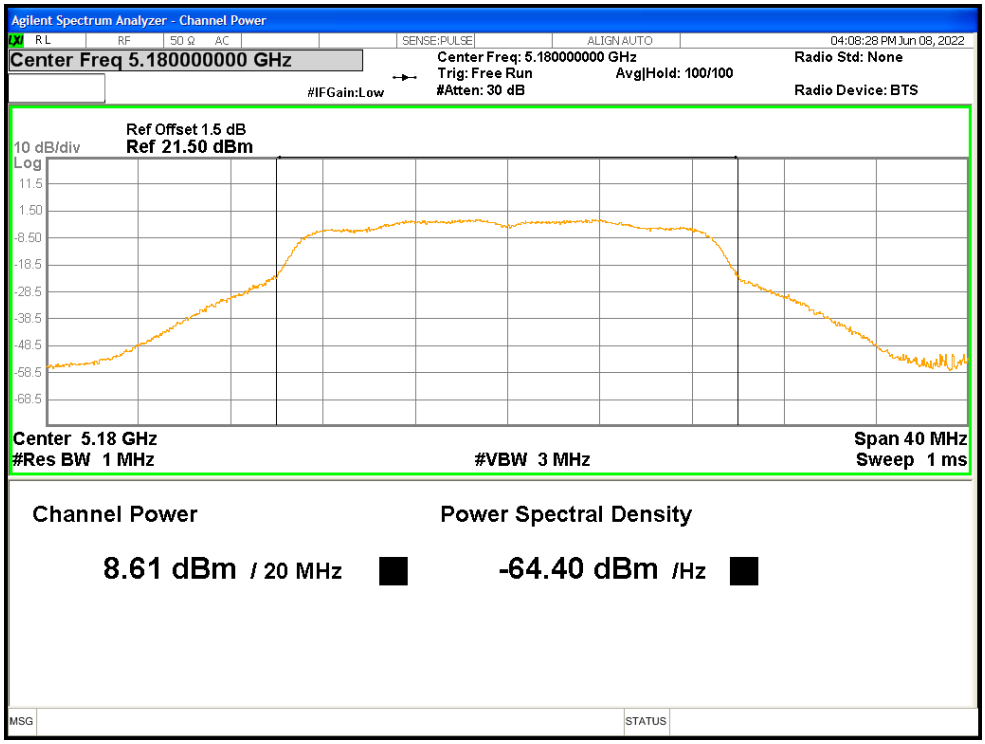
Power NVNT n40 5190MHz



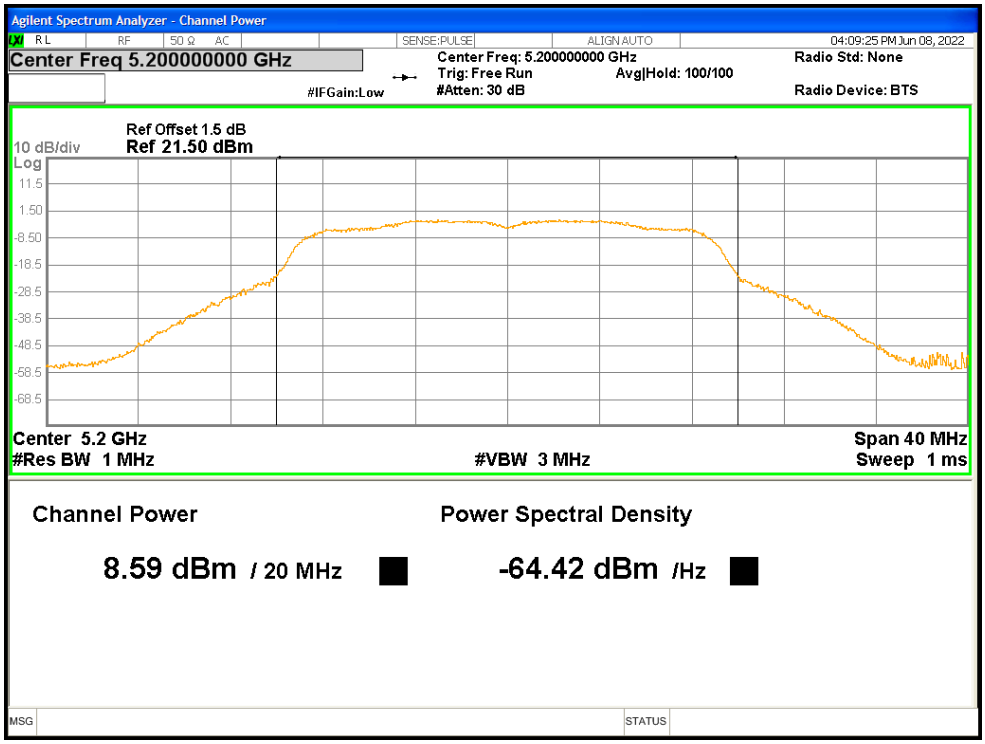
Power NVNT n40 5230MHz



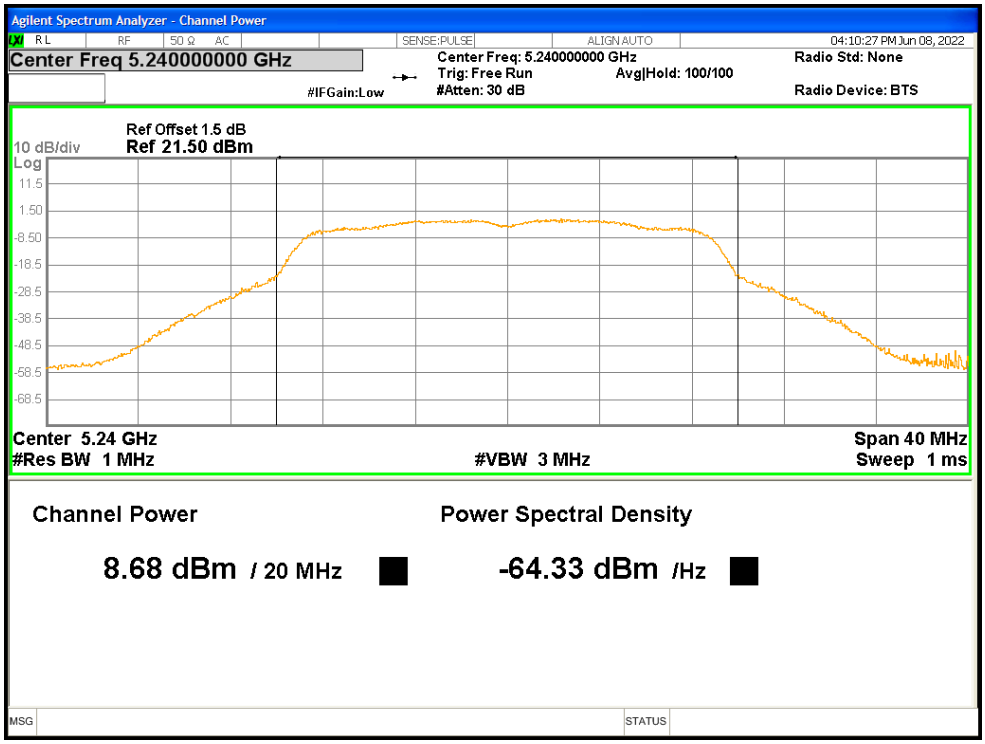
Power NVNT ac20 5180MHz



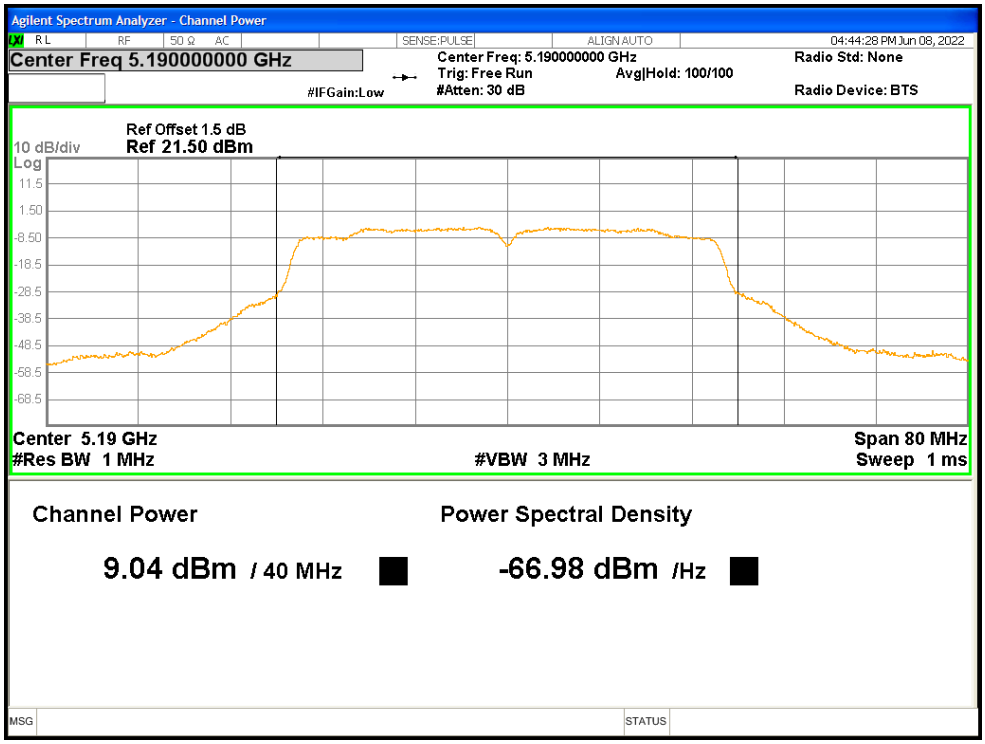
Power NVNT ac20 5200MHz



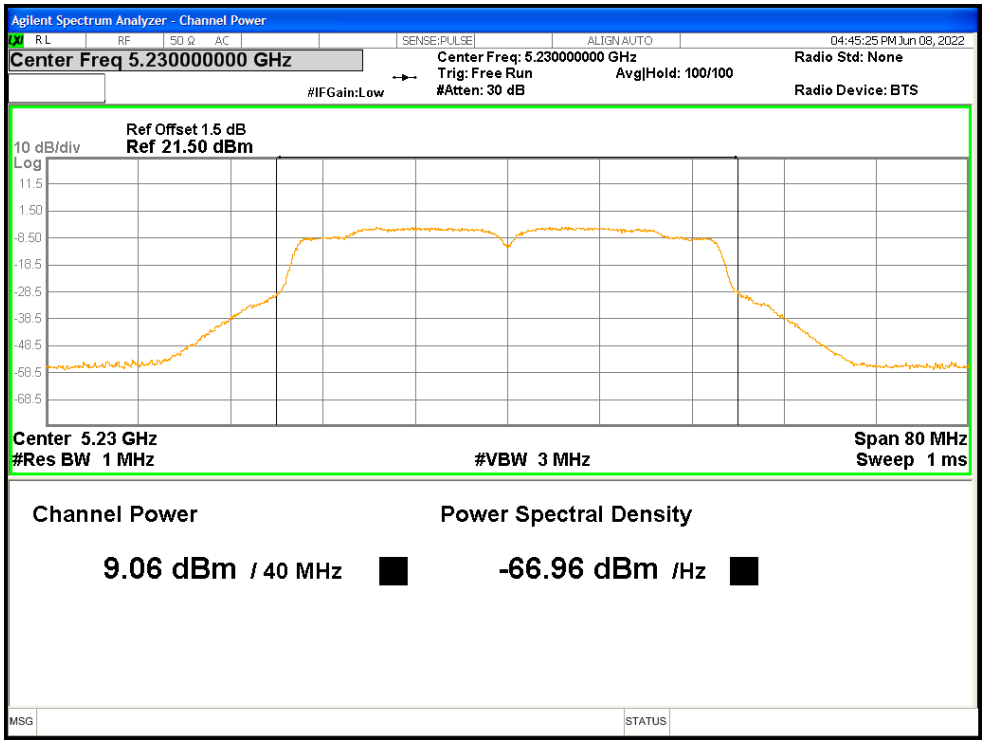
Power NVNT ac20 5240MHz



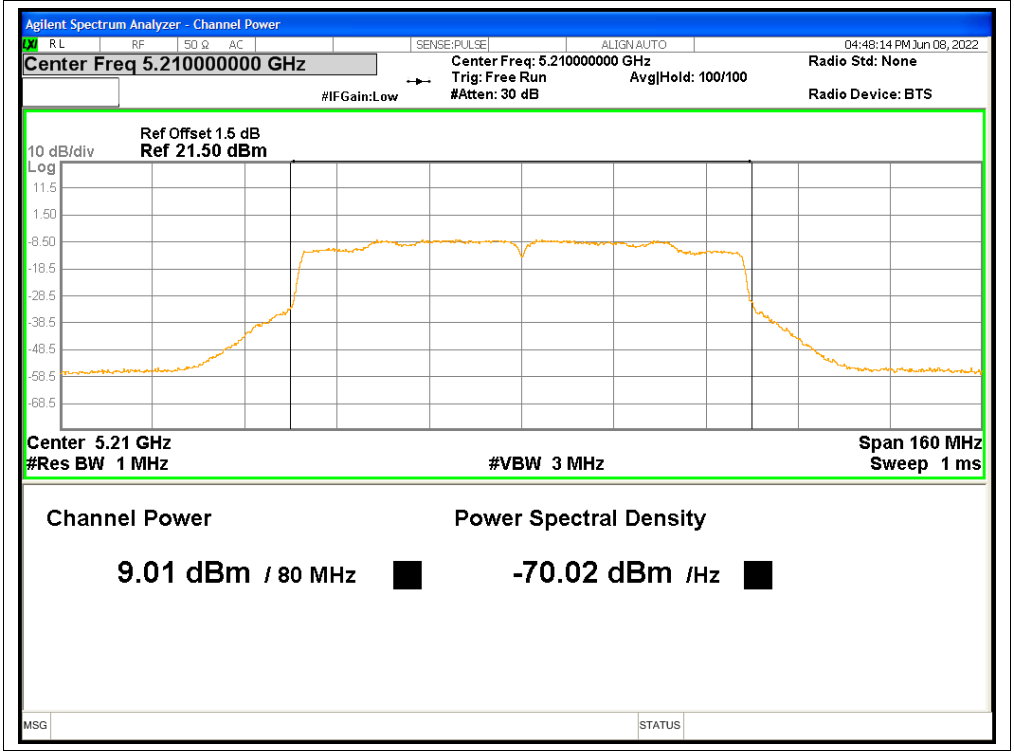
Power NVNT ac40 5190MHz



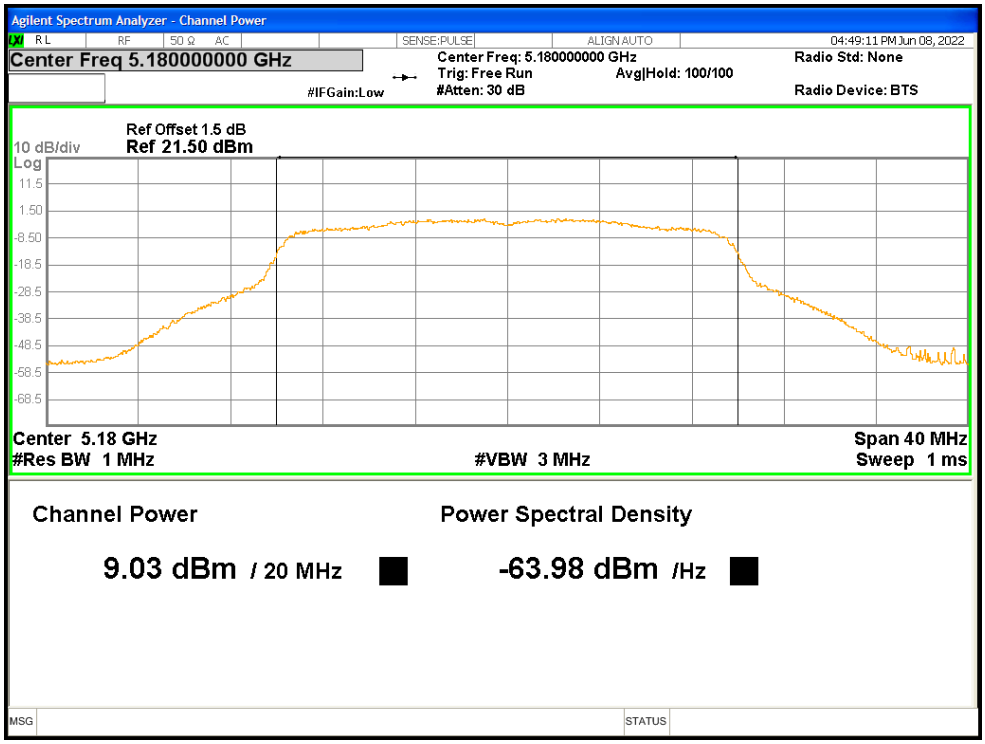
Power NVNT ac40 5230MHz



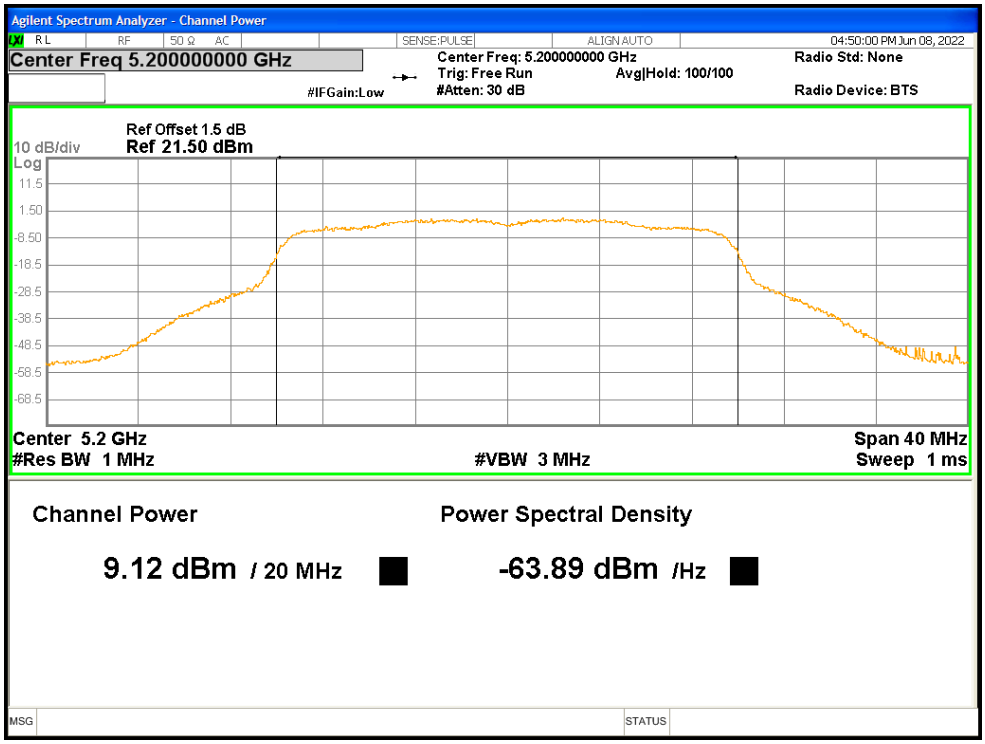
Power NVNT ac80 5210MHz



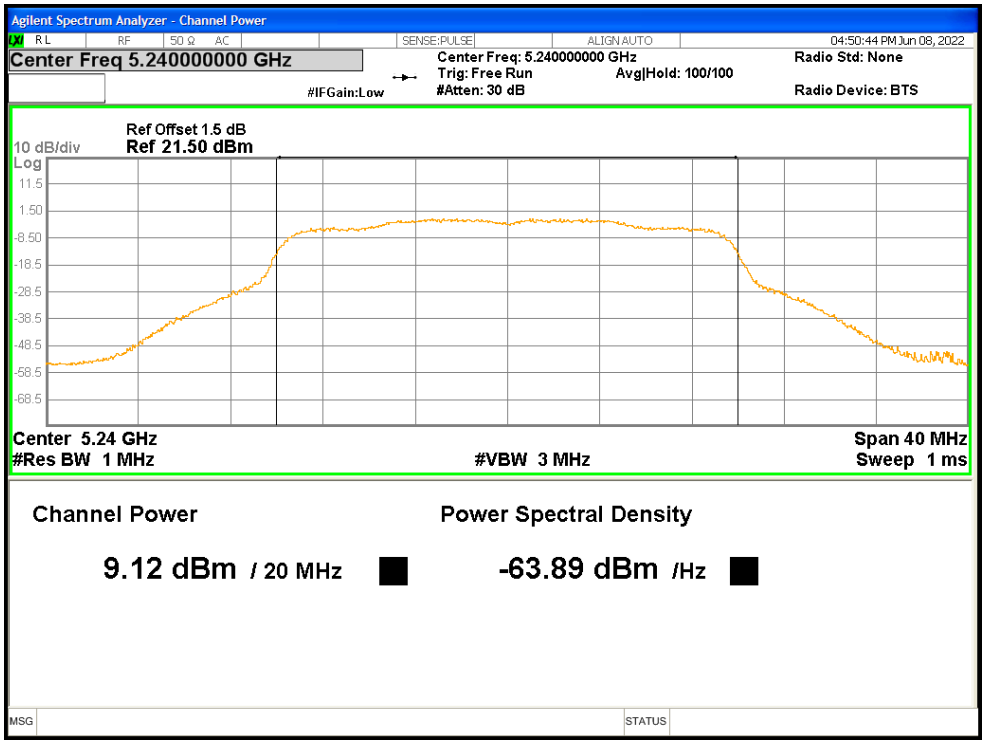
Power NVNT ax20 5180MHz



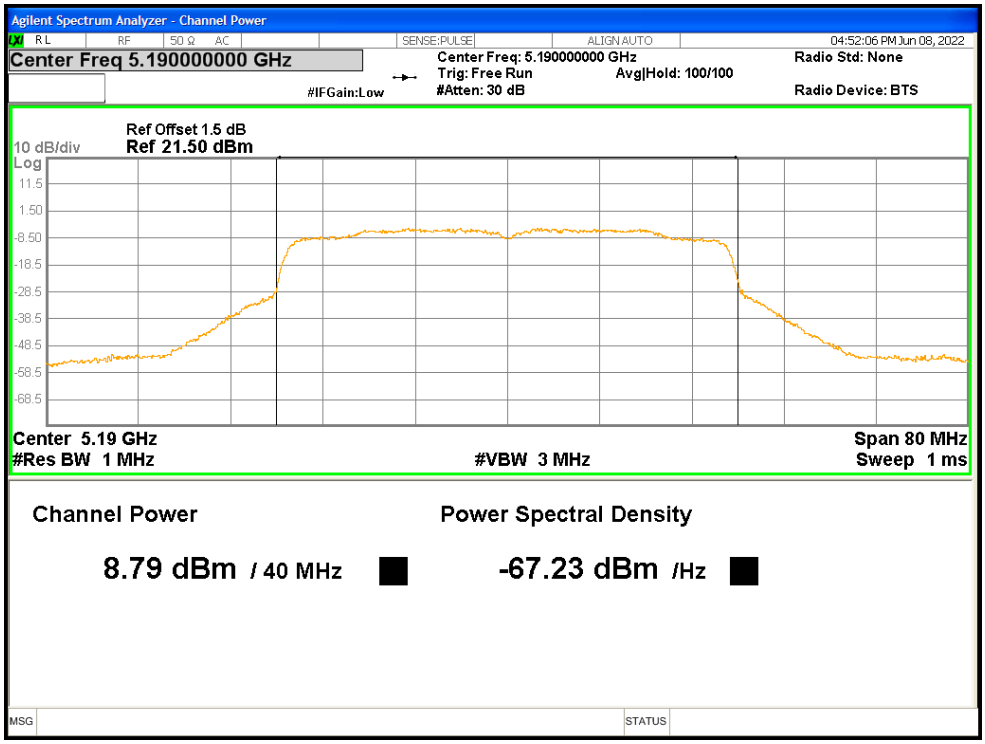
Power NVNT ax20 5200MHz



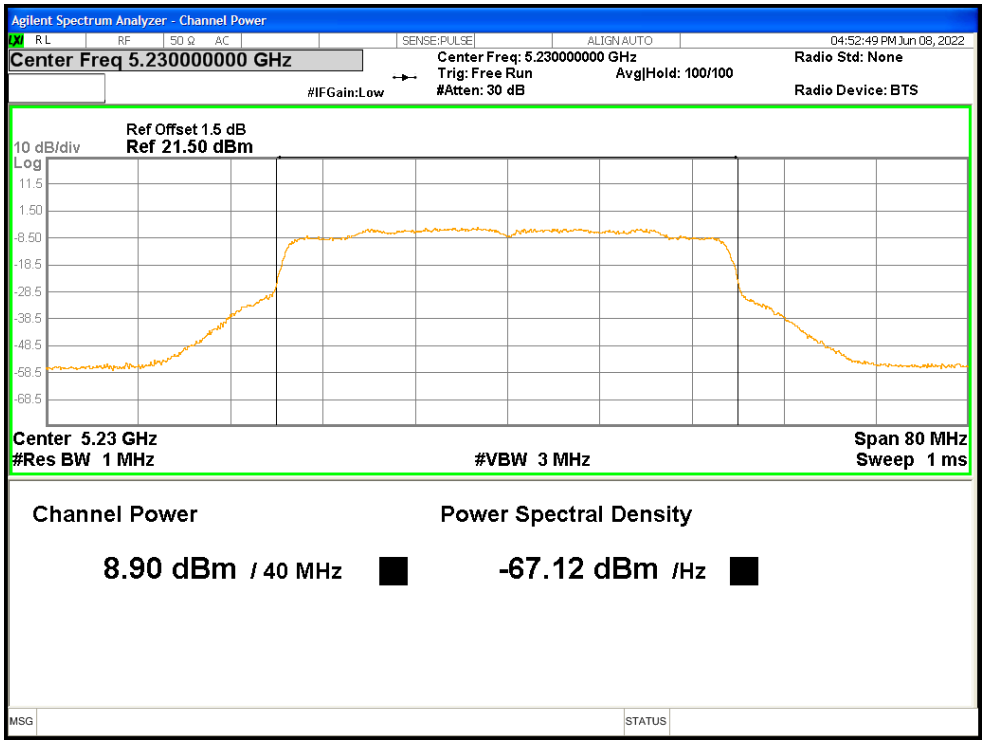
Power NVNT ax20 5240MHz



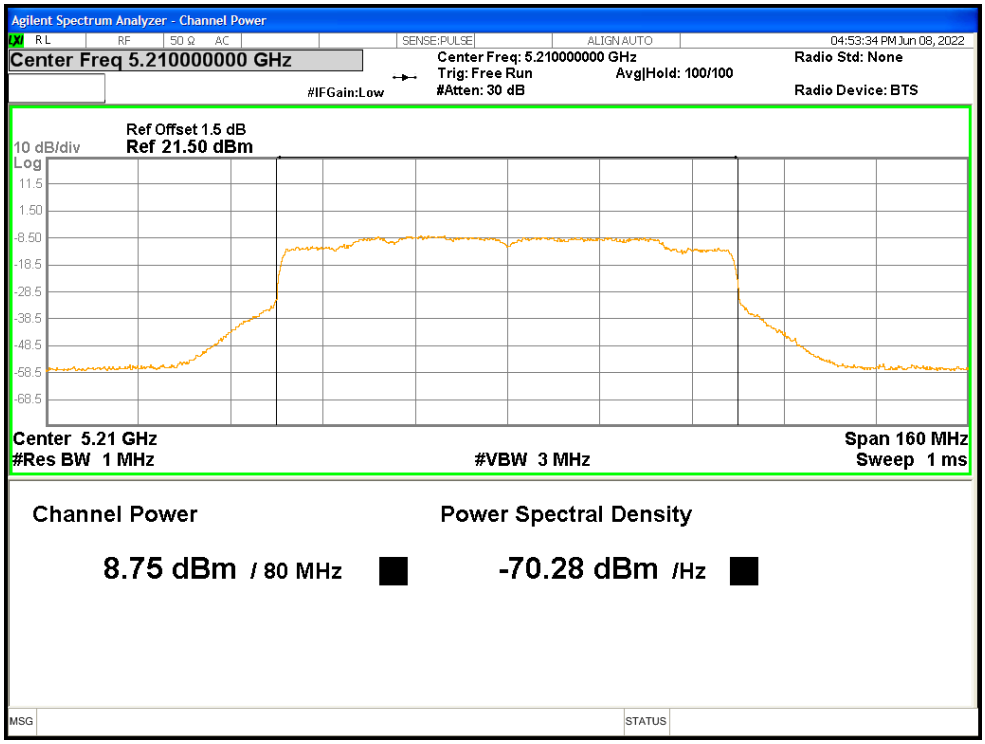
Power NVNT ax40 5190MHz



Power NVNT ax40 5230MHz



Power NVNT ax80 5210MHz

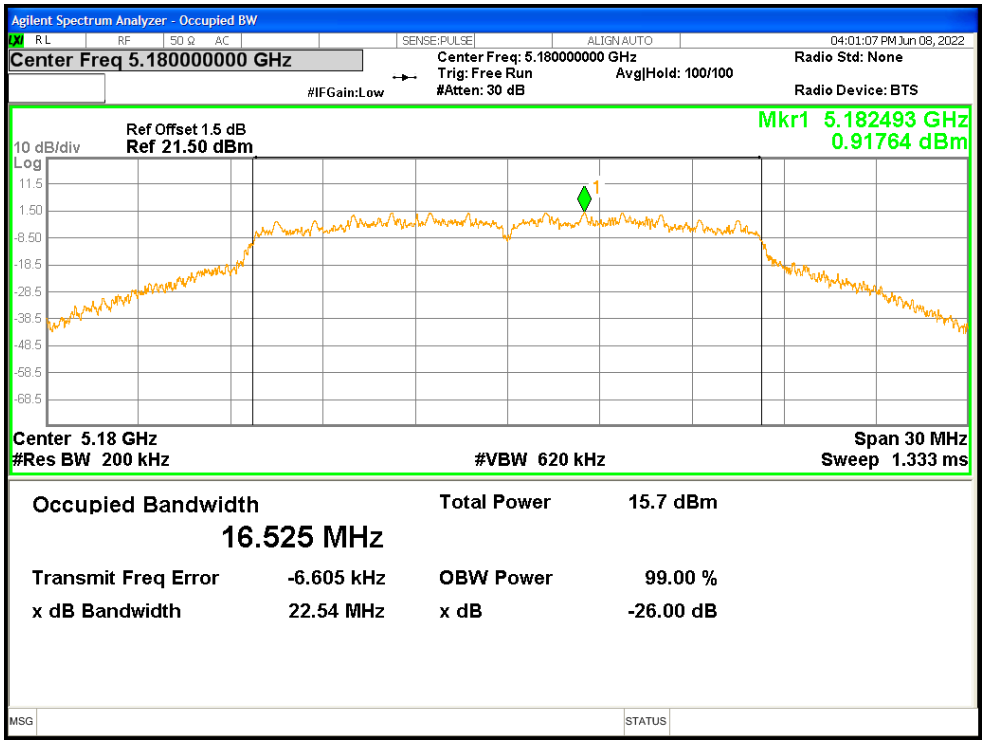


Occupied Channel Bandwidth

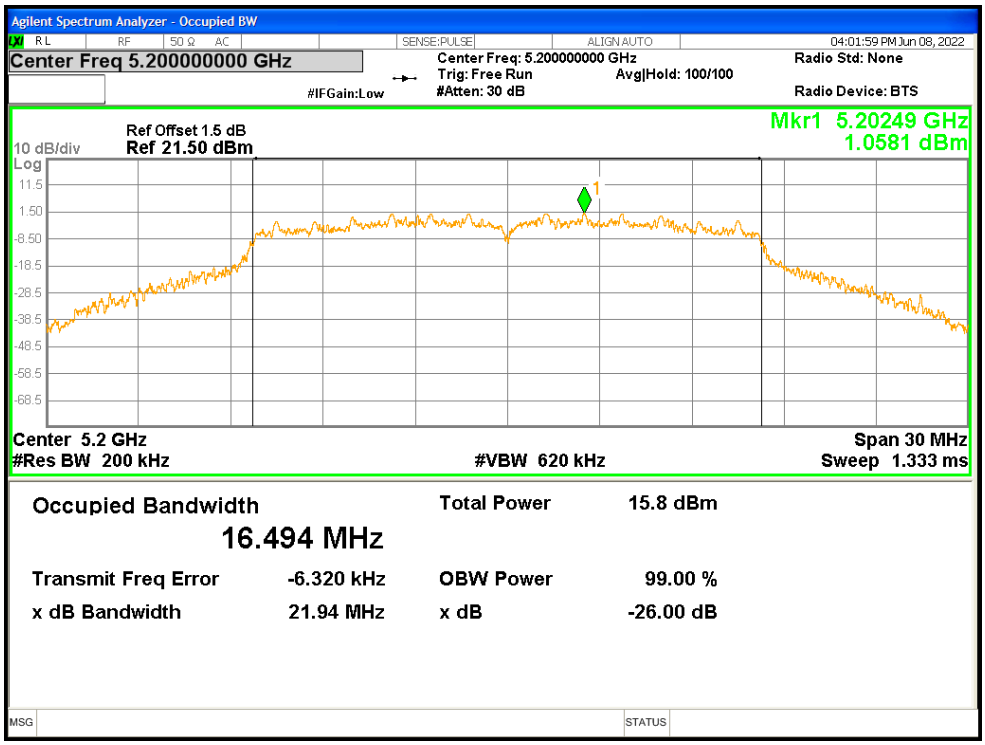
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.525
NVNT	a	5200	16.494
NVNT	a	5240	16.545
NVNT	n20	5180	17.641
NVNT	n20	5200	17.642
NVNT	n20	5240	17.632
NVNT	n40	5190	36.029
NVNT	n40	5230	36.003
NVNT	ac20	5180	17.674
NVNT	ac20	5200	17.632
NVNT	ac20	5240	17.65
NVNT	ac40	5190	35.984
NVNT	ac40	5230	35.985
NVNT	ac80	5210	75.113
NVNT	ax20	5180	18.822
NVNT	ax20	5200	18.86
NVNT	ax20	5240	18.843
NVNT	ax40	5190	37.585
NVNT	ax40	5230	37.539
NVNT	ax80	5210	76.602

Test Graphs

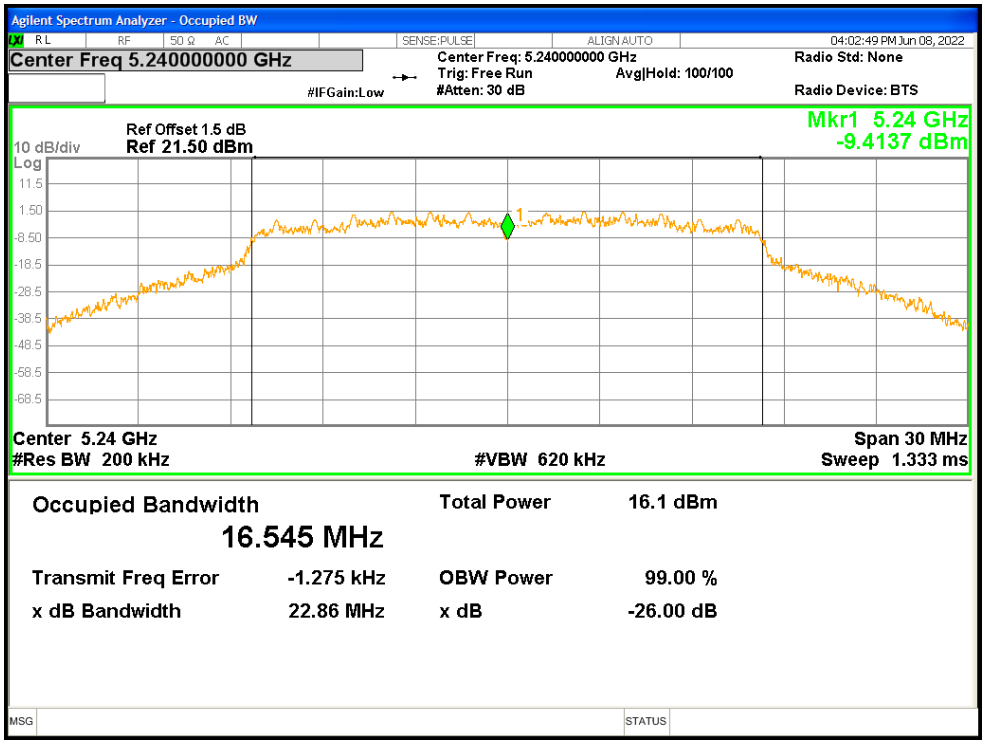
OBW NVNT a 5180MHz



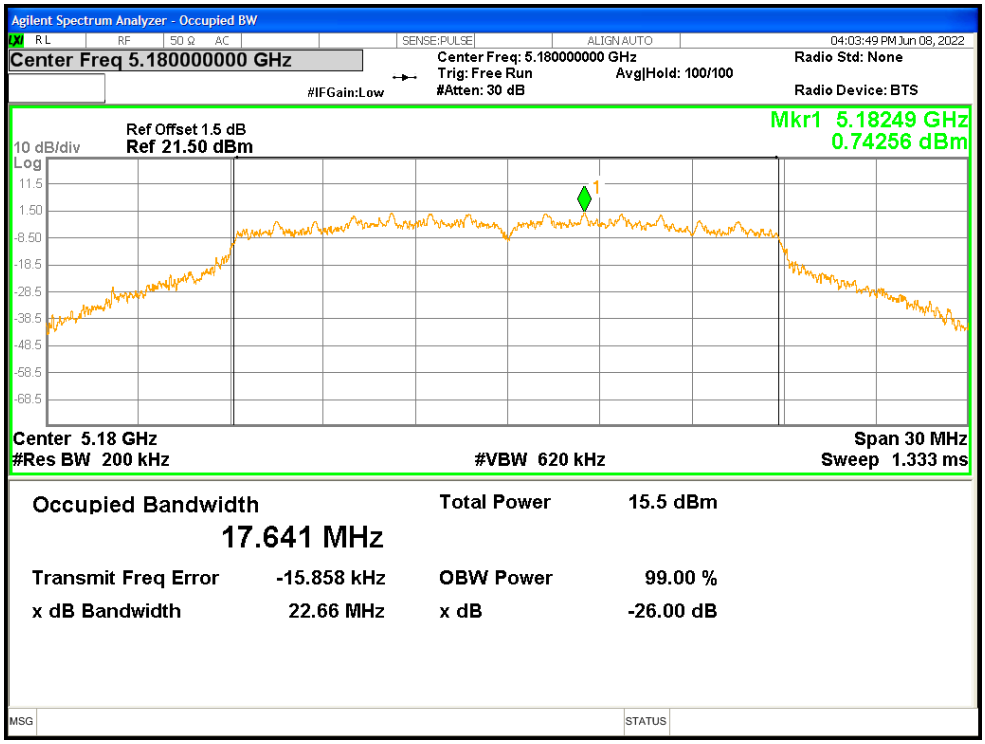
OBW NVNT a 5200MHz



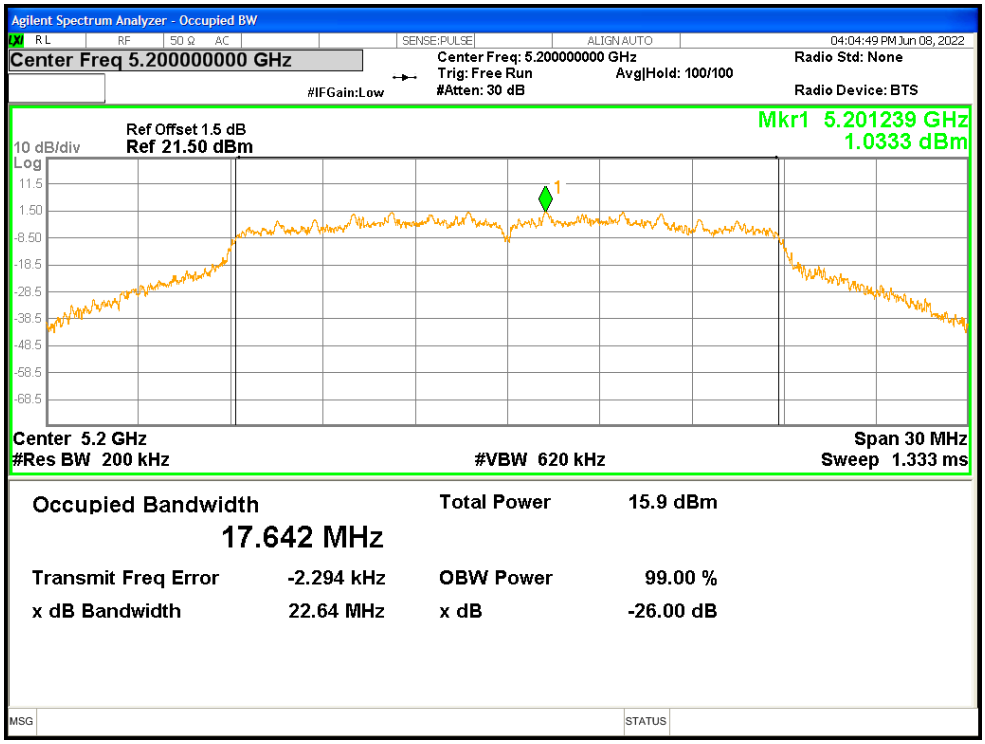
OBW NVNT a 5240MHz



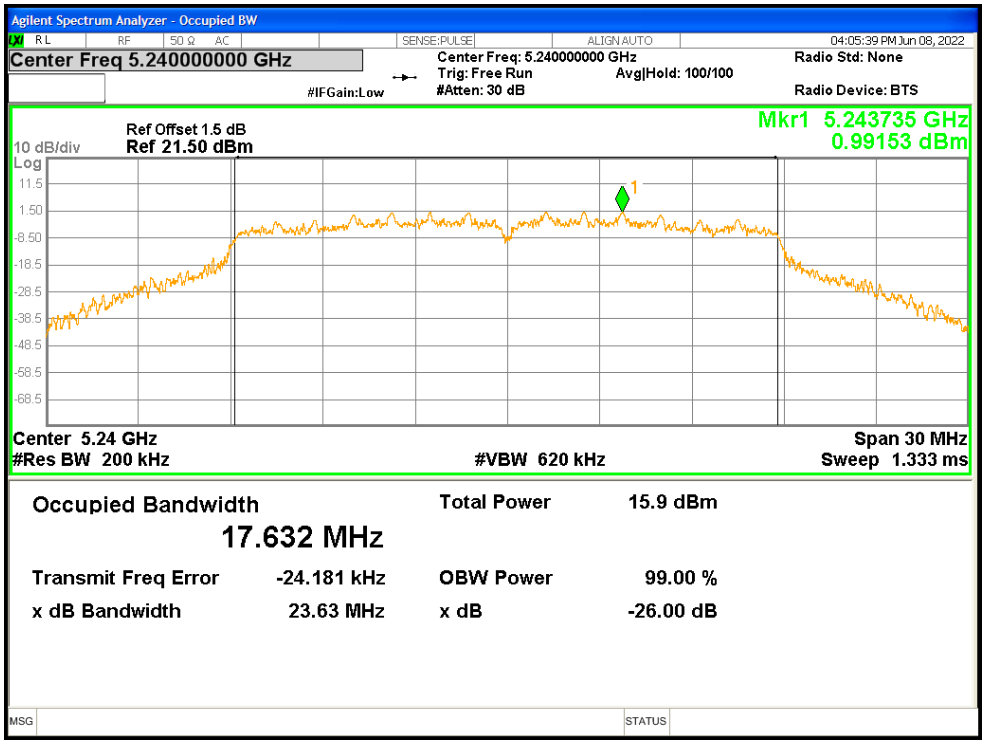
OBW NVNT n20 5180MHz



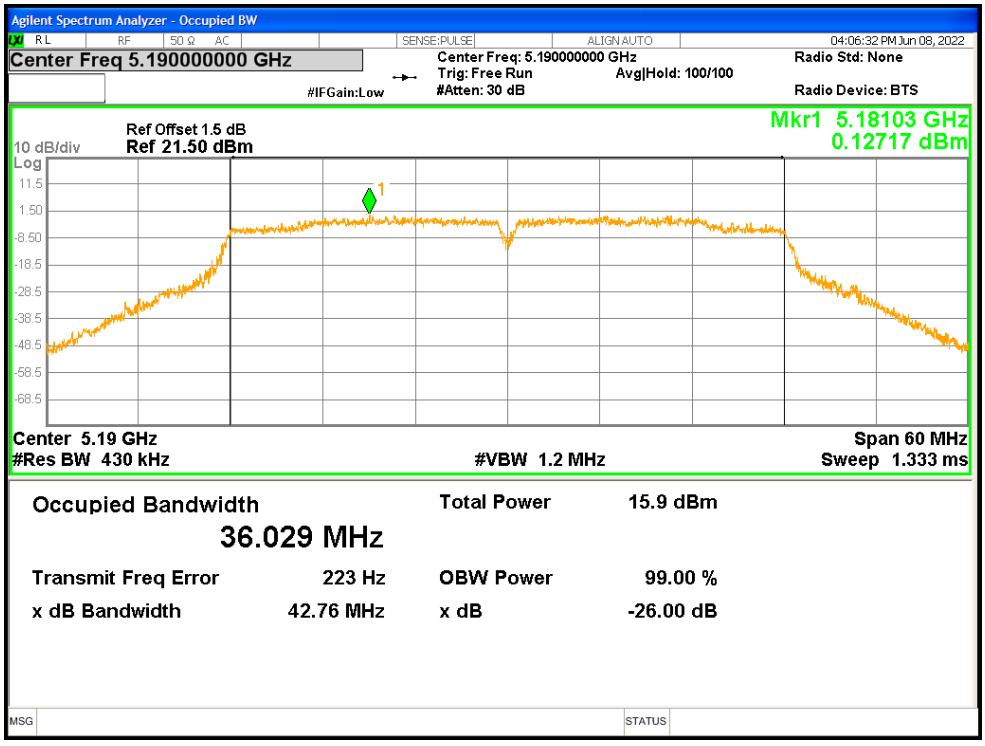
OBW NVNT n20 5200MHz



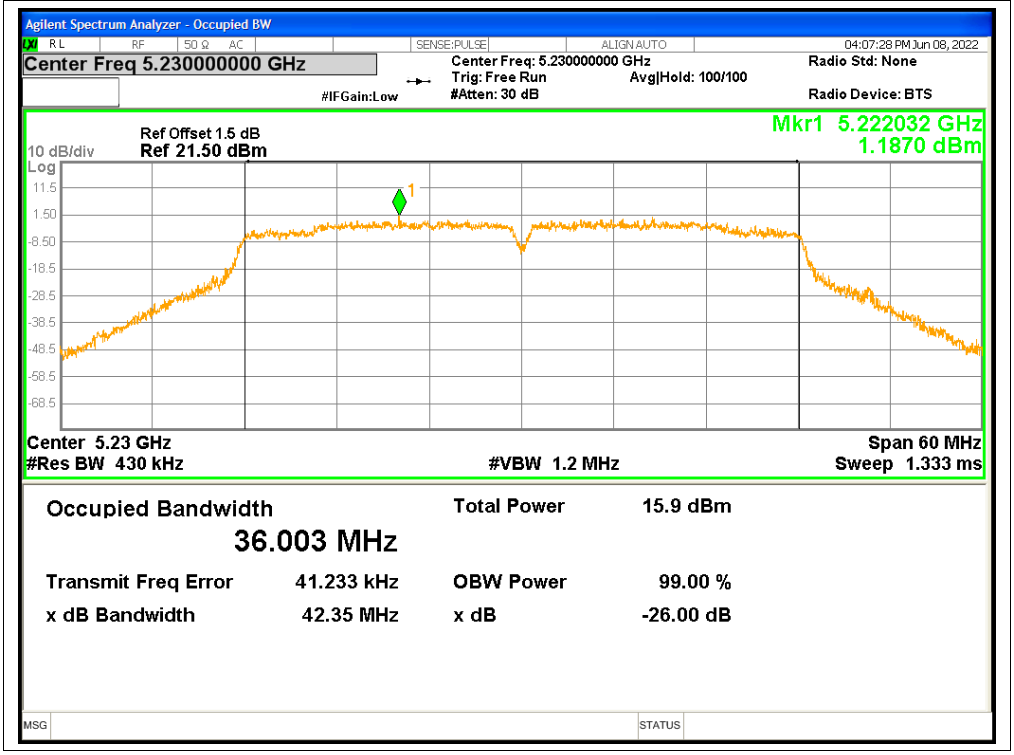
OBW NVNT n20 5240MHz



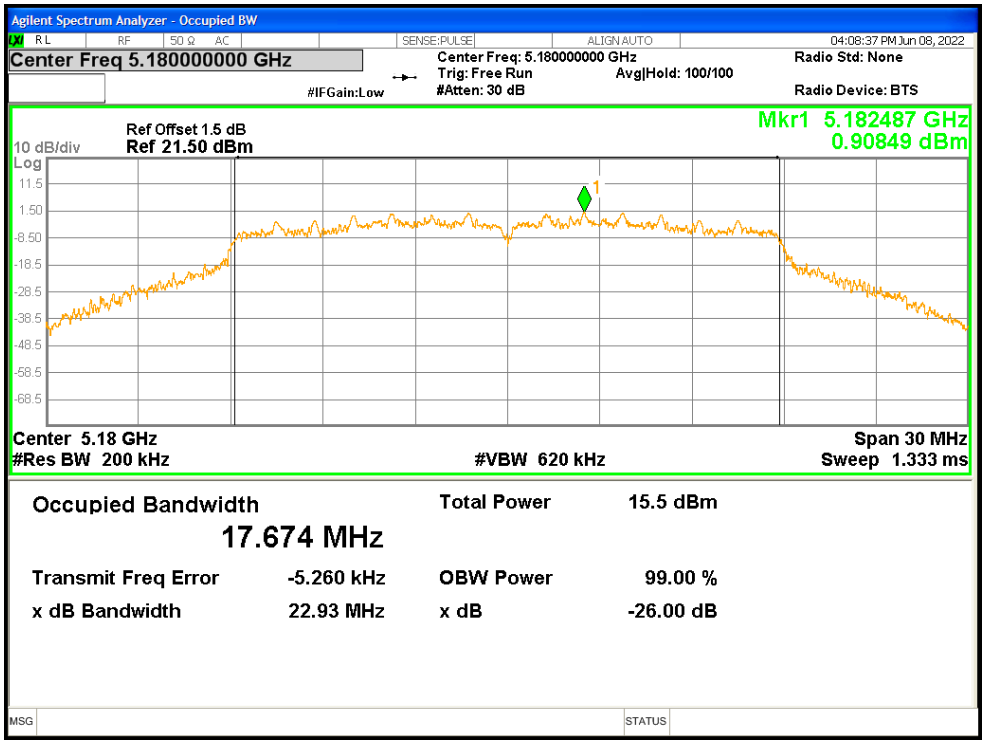
OBW NVNT n40 5190MHz



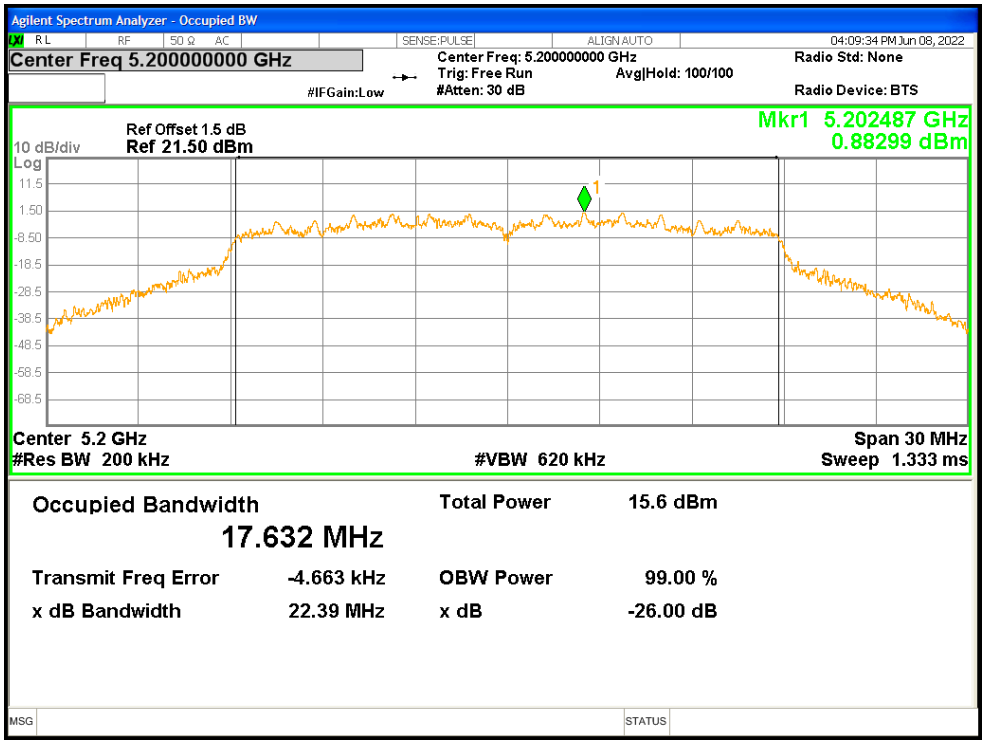
OBW NVNT n40 5230MHz



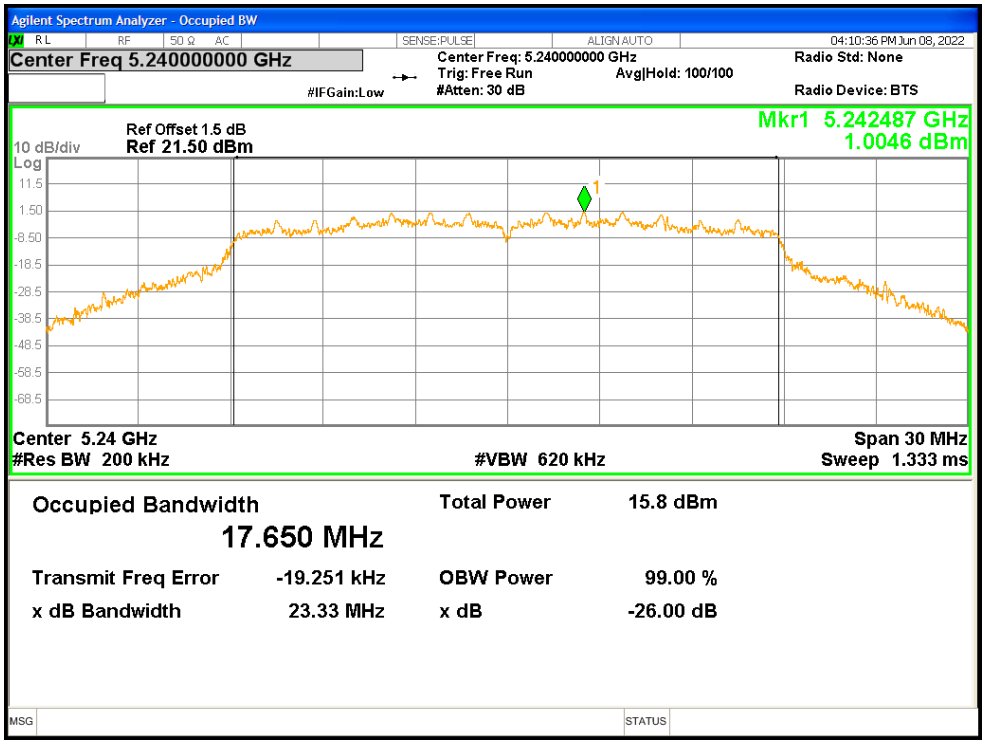
OBW NVNT ac20 5180MHz



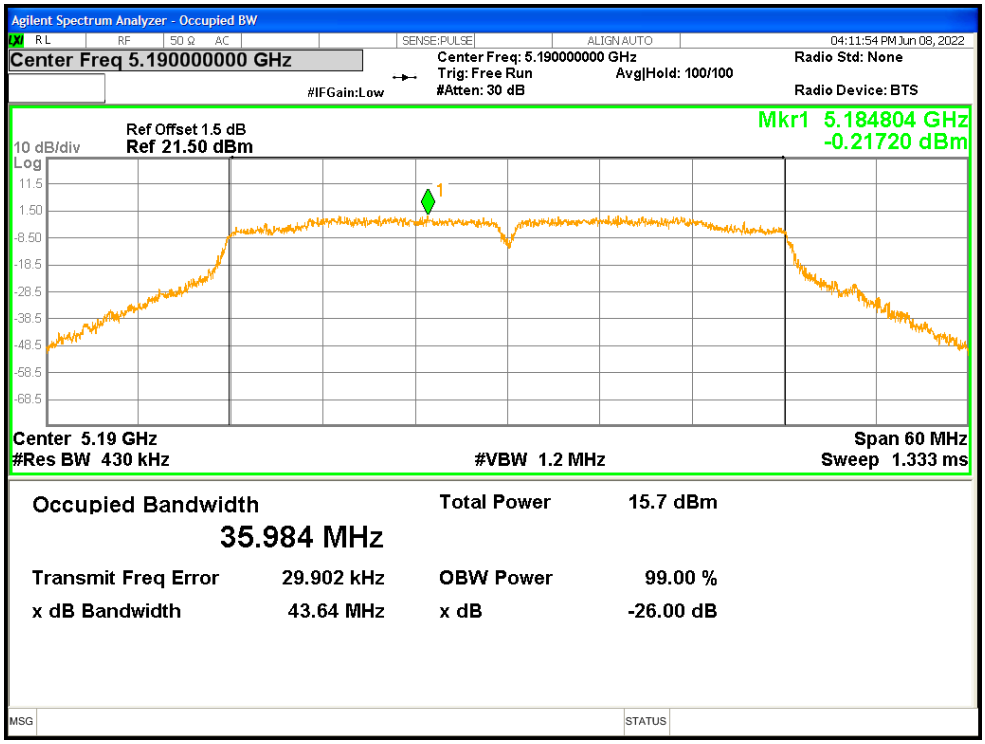
OBW NVNT ac20 5200MHz



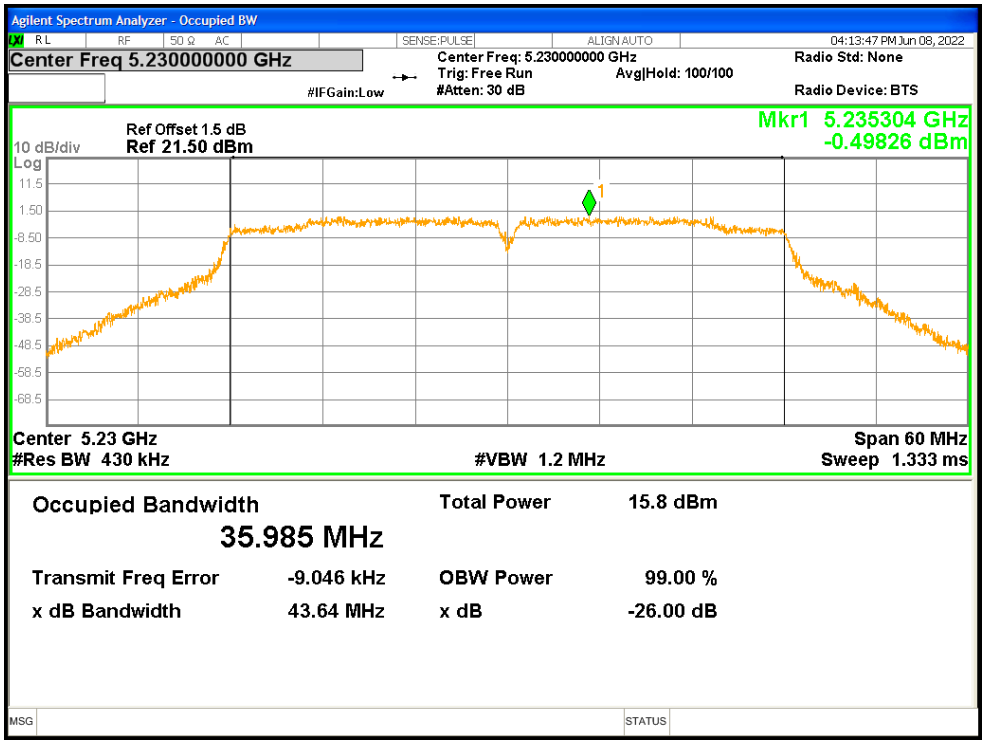
OBW NVNT ac20 5240MHz



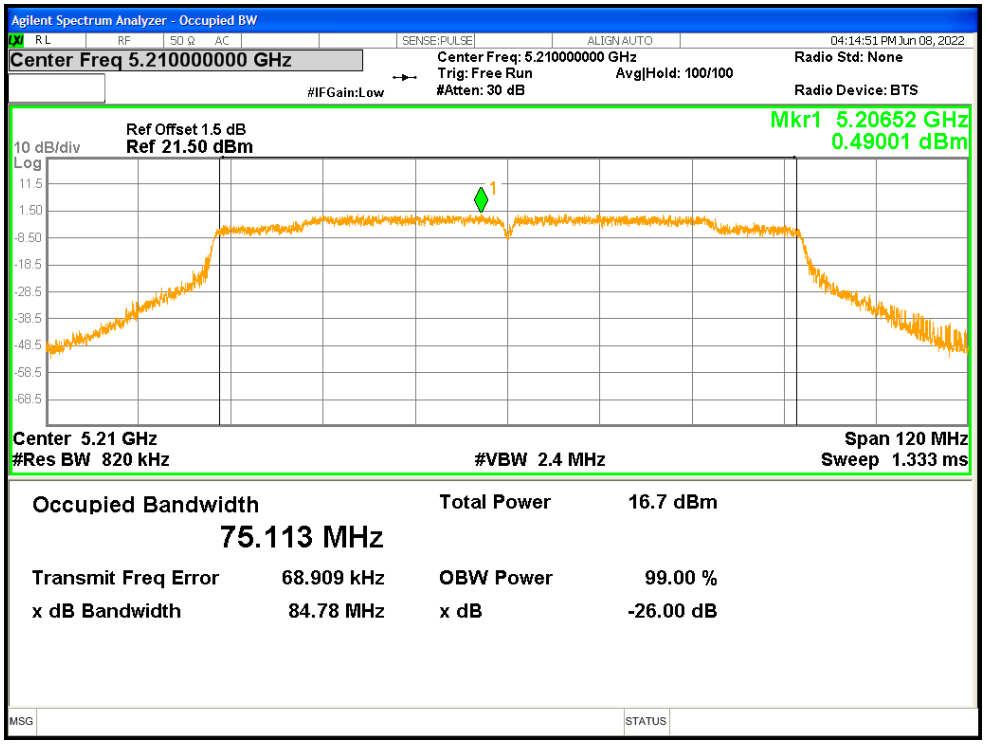
OBW NVNT ac40 5190MHz



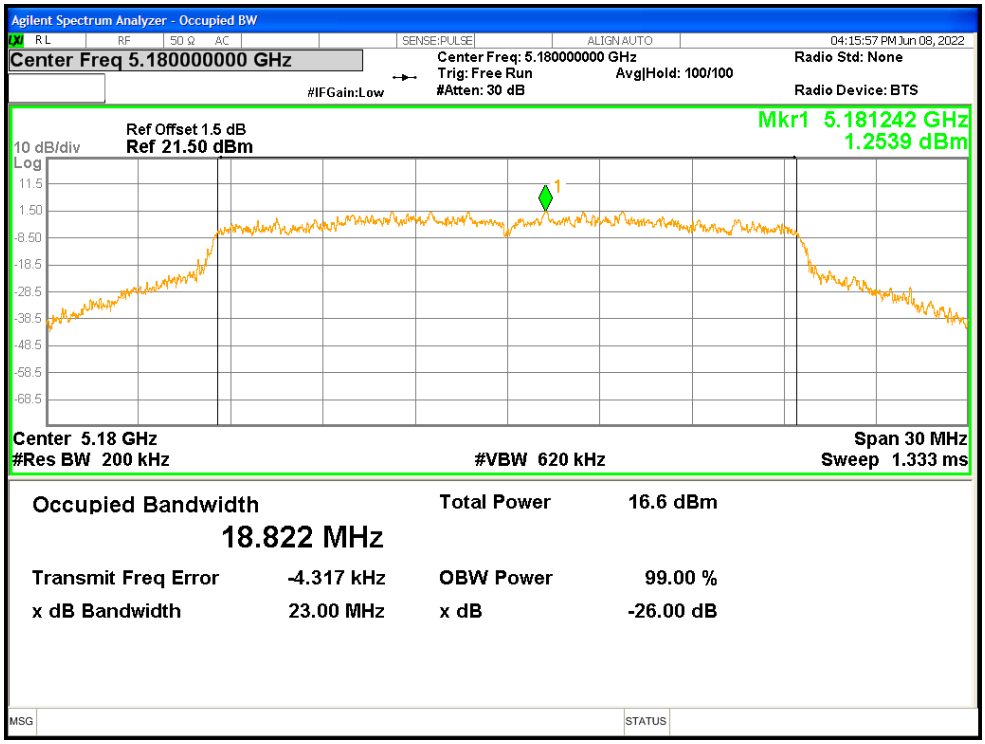
OBW NVNT ac40 5230MHz



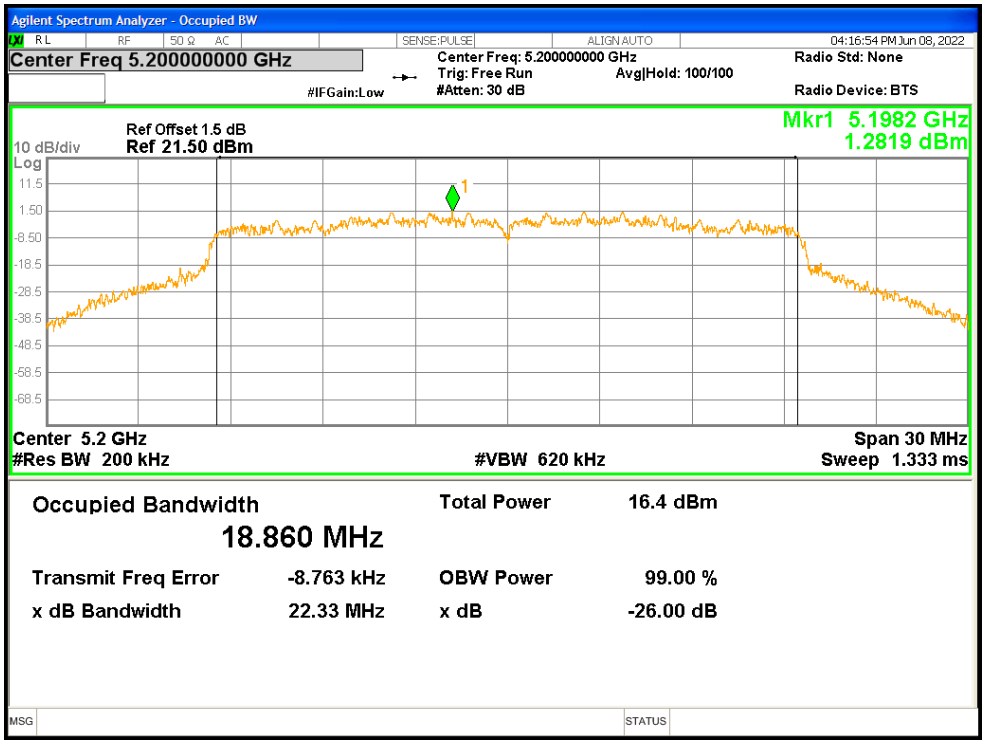
OBW NVNT ac80 5210MHz



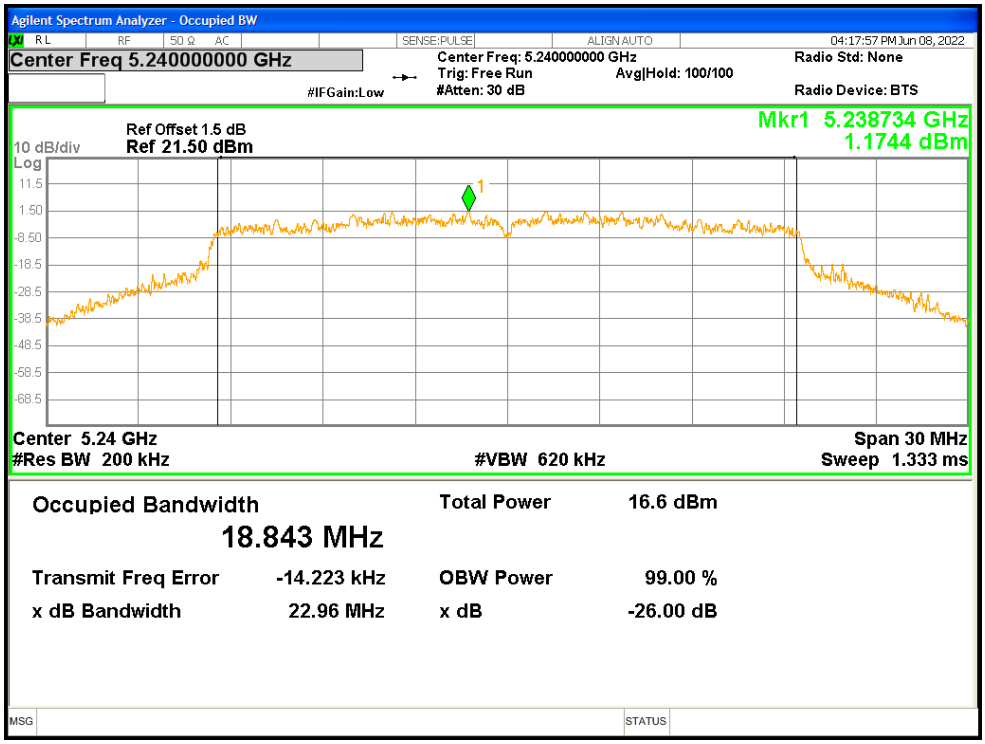
OBW NVNT ax20 5180MHz



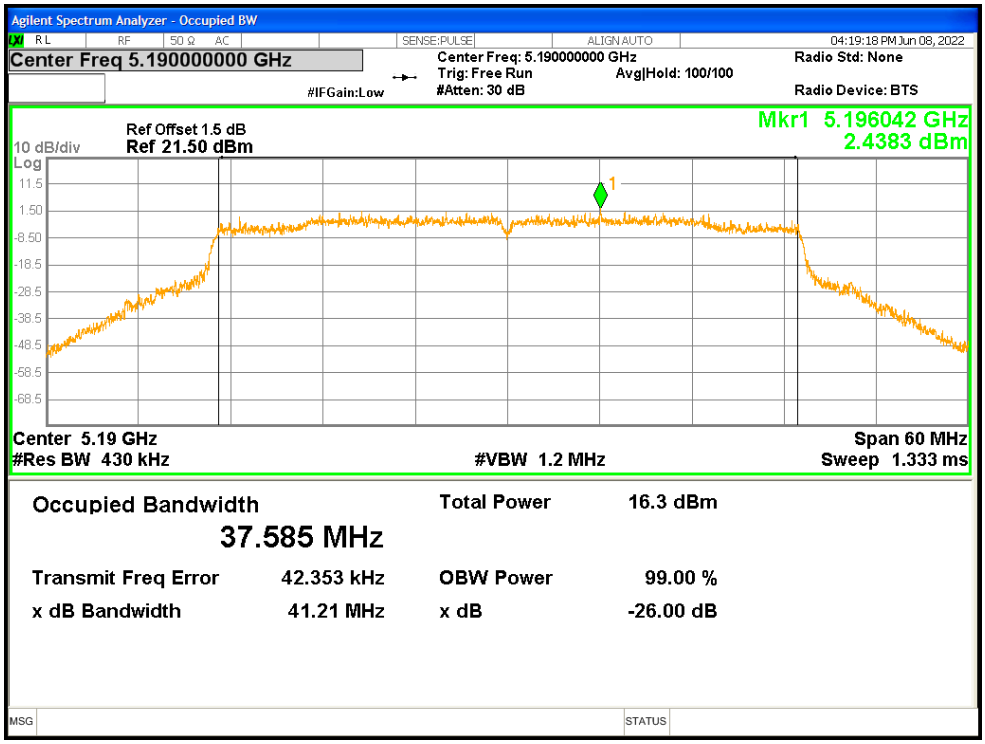
OBW NVNT ax20 5200MHz



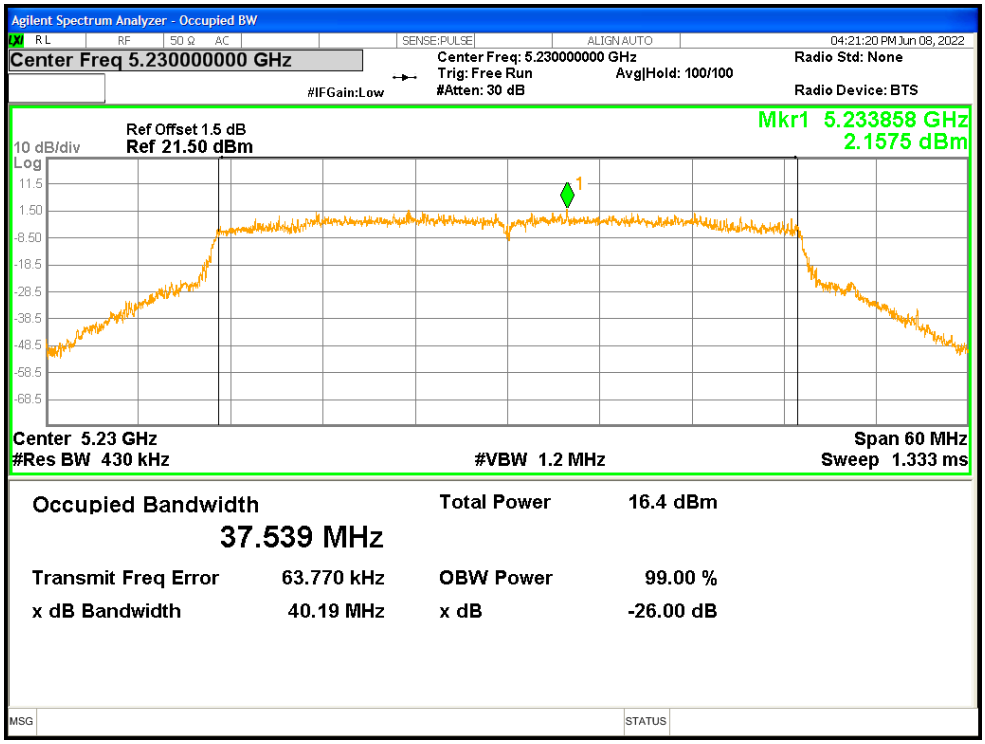
OBW NVNT ax20 5240MHz



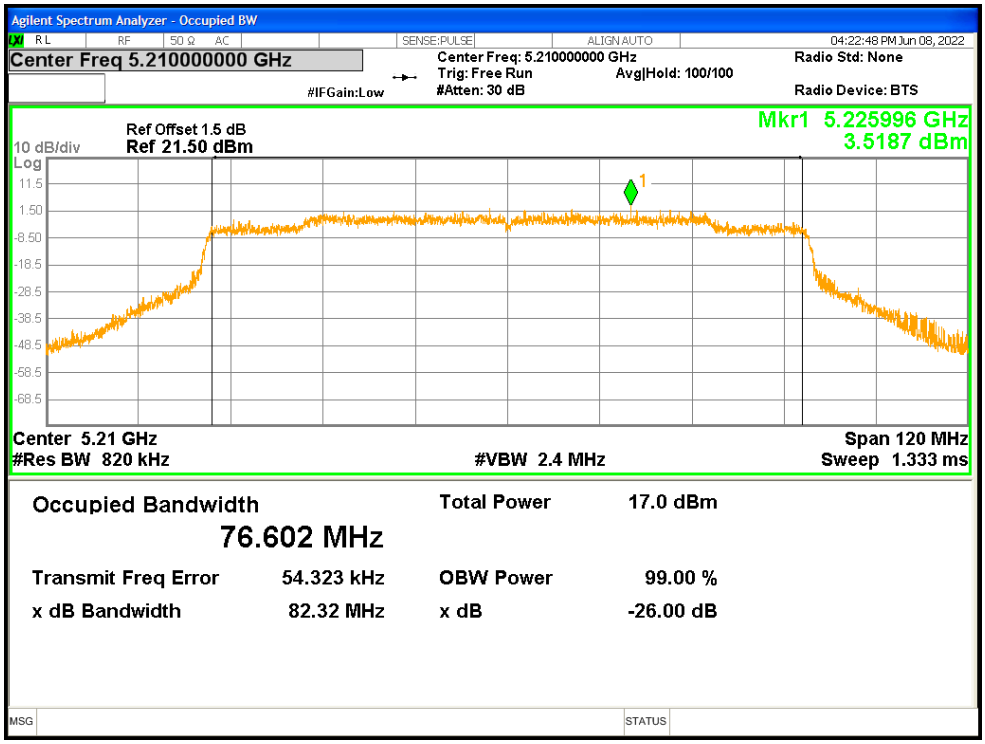
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz



OBW NVNT ax80 5210MHz

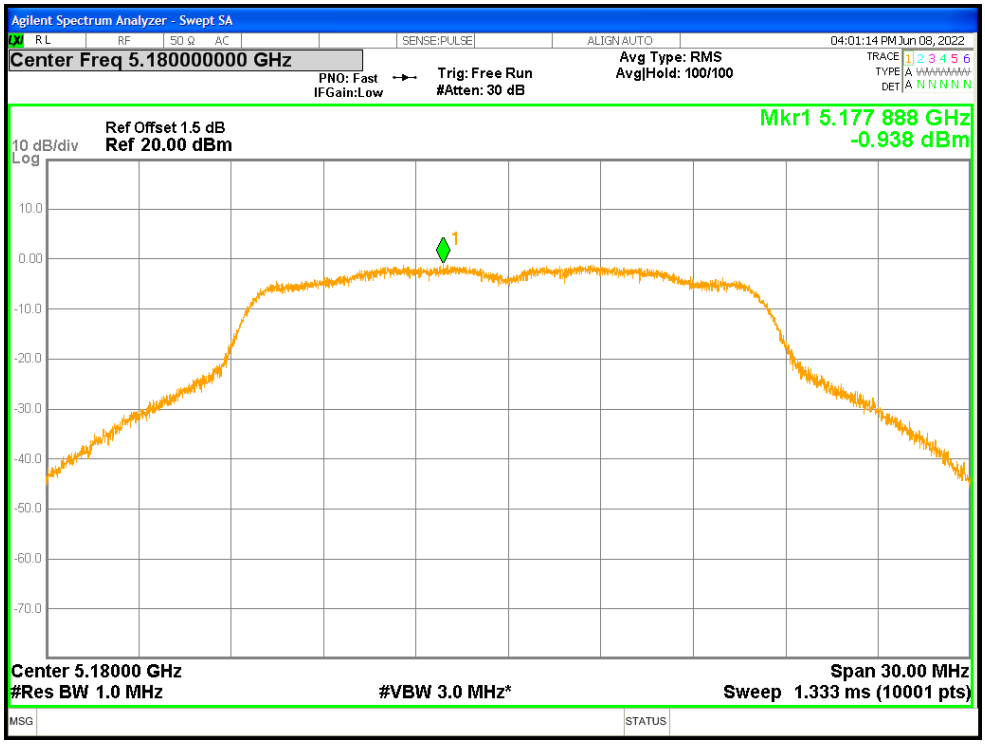


Maximum Power Spectral Density Level

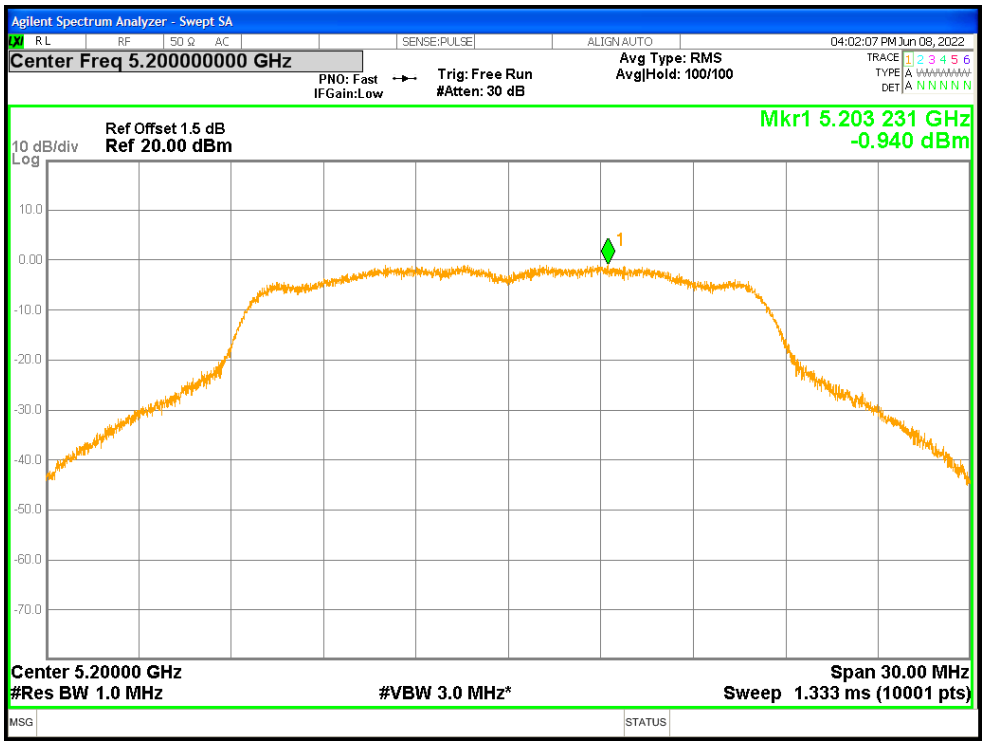
5150-5250MHz								
Frequency	Direct measurement Ant_A Power Density (dBm)	Direct measurement Ant_B Power Density (dBm)	Duty cycle factor (dB)	Final Ant_A Power Density (dBm)	Final Ant_B Power Density (dBm)	Power Density Total (dBm)	Limit (dBm)	Result
802.11a								
5180	-0.94	-1.09	1.17	0.230	0.080	--	11	PASS
5200	-0.94	-0.96	1.17	0.230	0.210	--	11	PASS
5240	-1.04	-0.81	1.16	0.120	0.350	--	11	PASS
802.11n20								
5180	-1.14	-1.11	1.02	-0.120	-0.090	2.905	11	PASS
5200	-0.7	-0.81	1.02	0.320	0.210	3.276	11	PASS
5240	-0.56	-0.63	1.02	0.460	0.390	3.435	11	PASS
802.11n40								
5190	-3.83	-3.76	1	-2.830	-2.760	0.215	11	PASS
5230	-3.75	-3.98	1	-2.750	-2.980	0.147	11	PASS
802.11ac20								
5180	-1.19	-1.11	1.09	-0.100	-0.020	2.950	11	PASS
5200	-1.3	-1.08	1.08	-0.220	0.000	2.902	11	PASS
5240	-0.49	-1.07	1.08	0.590	0.010	3.320	11	PASS
802.11ac40								
5190	-4.08	-3.92	1.13	-2.950	-2.790	0.141	11	PASS
5230	-4.09	-4.09	1.14	-2.950	-2.950	0.060	11	PASS
802.11ac80								
5210	-6.7	-6.49	1.09	-5.610	-5.400	-2.493	11	PASS
802.11ax20								
5180	-0.44	-0.66	0.73	0.290	0.070	3.192	11	PASS
5200	-0.85	-0.85	0.72	-0.130	-0.130	2.880	11	PASS
5240	-0.76	-0.79	0.73	-0.030	-0.060	2.965	11	PASS
802.11ax40								
5190	-4.07	-4.3	1.03	-3.040	-3.270	-0.143	11	PASS
5230	-4.39	-3.91	1.01	-3.380	-2.900	-0.123	11	PASS
802.11ax80								
5210	-6.9	-7.15	1.1	-5.800	-6.050	-2.913	11	PASS

ANT A

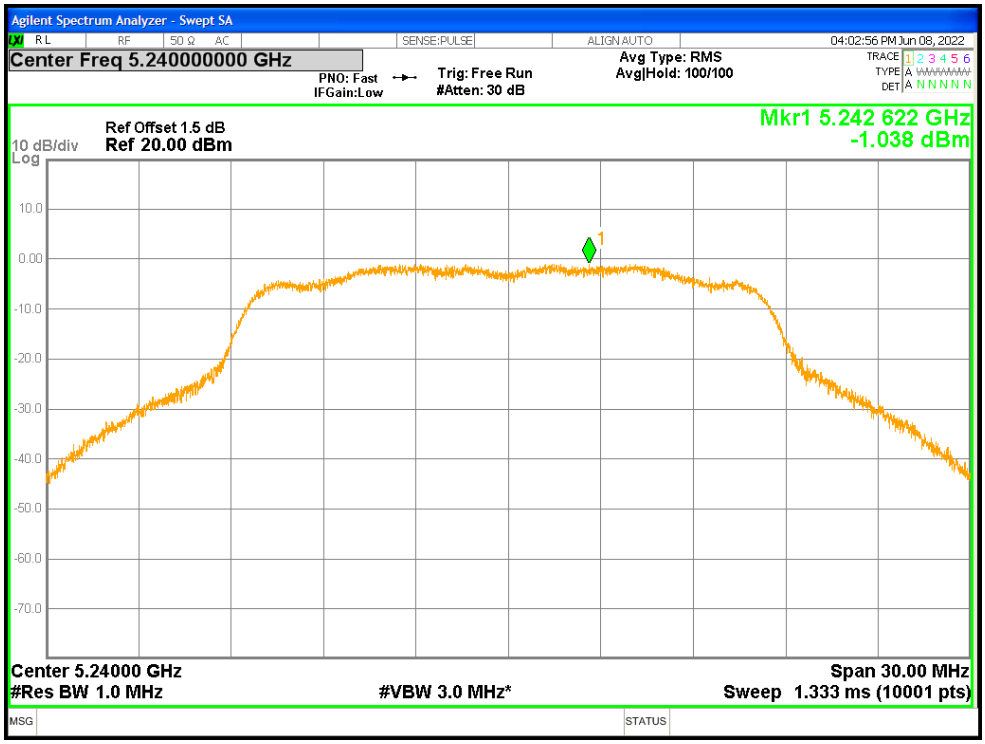
Test Graphs
PSD NVNT a 5180MHz



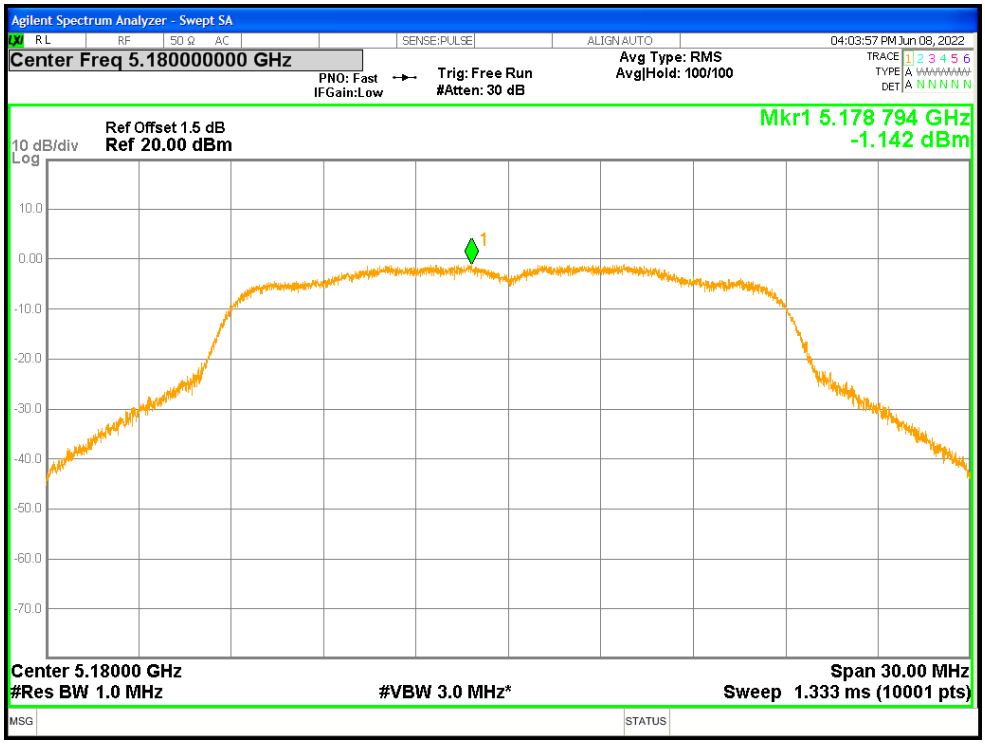
PSD NVNT a 5200MHz



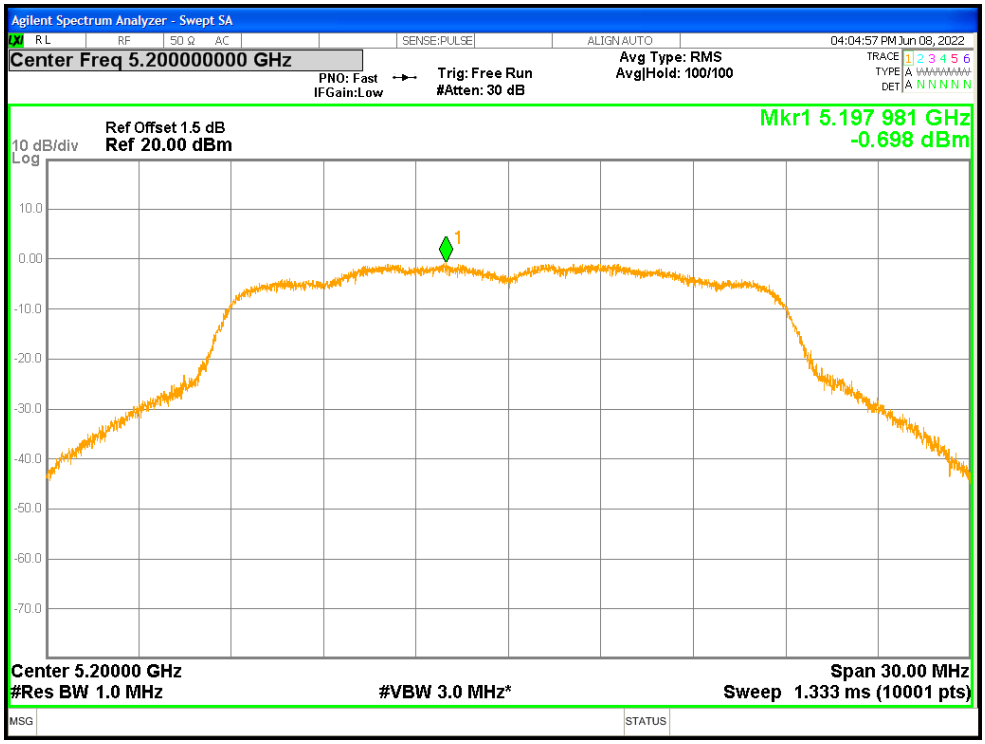
PSD NVNT a 5240MHz



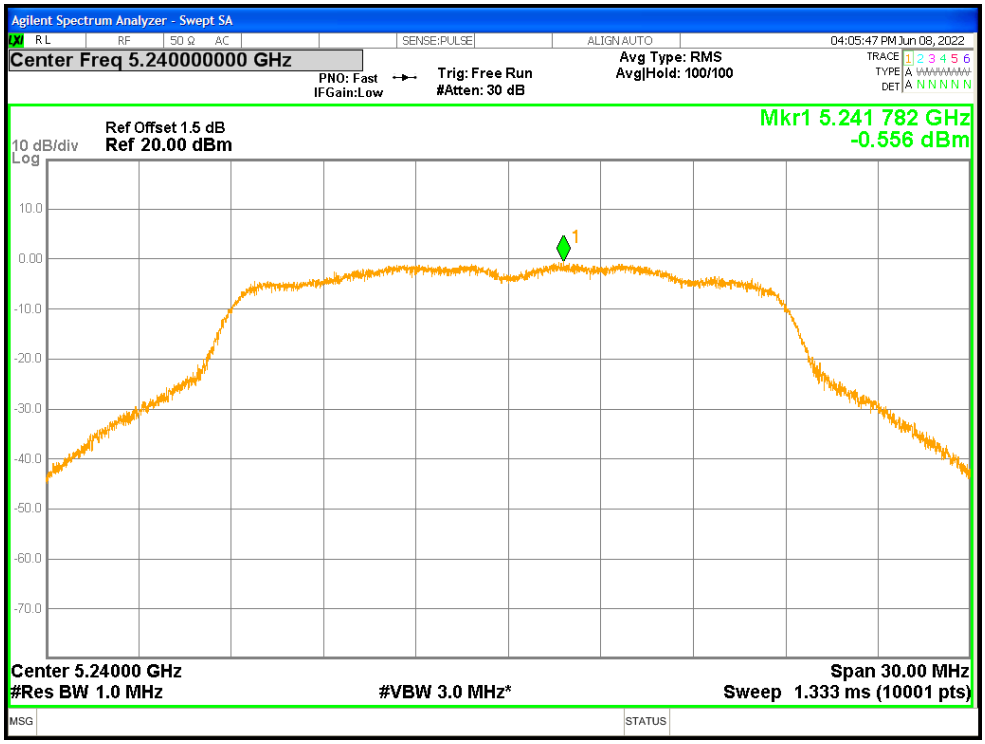
PSD NVNT n20 5180MHz



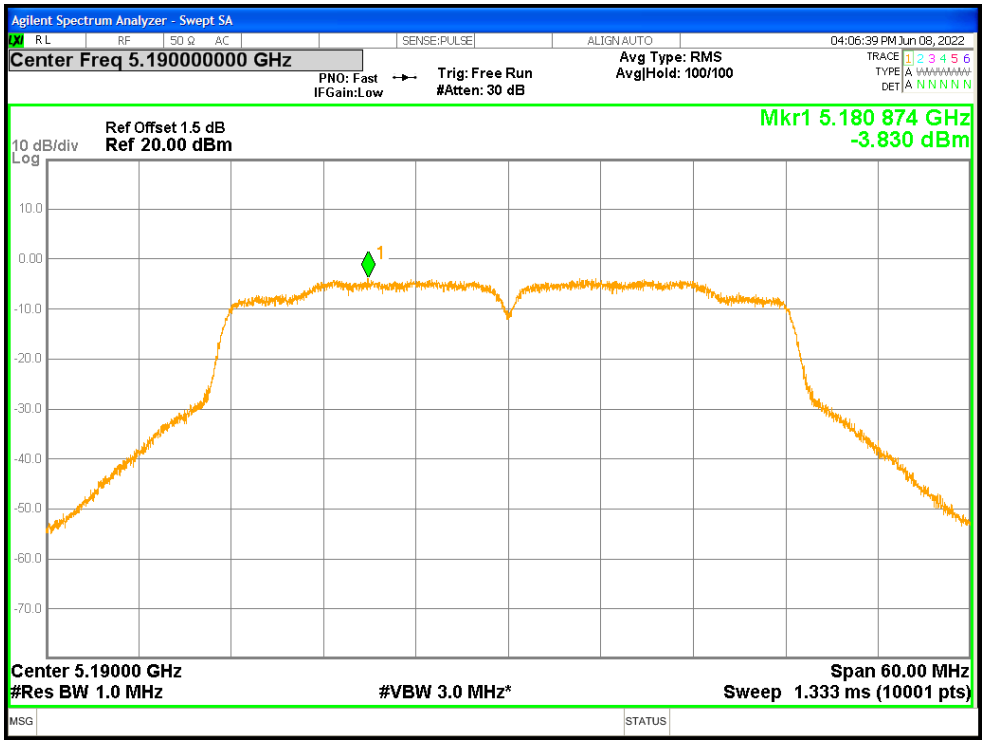
PSD NVNT n20 5200MHz



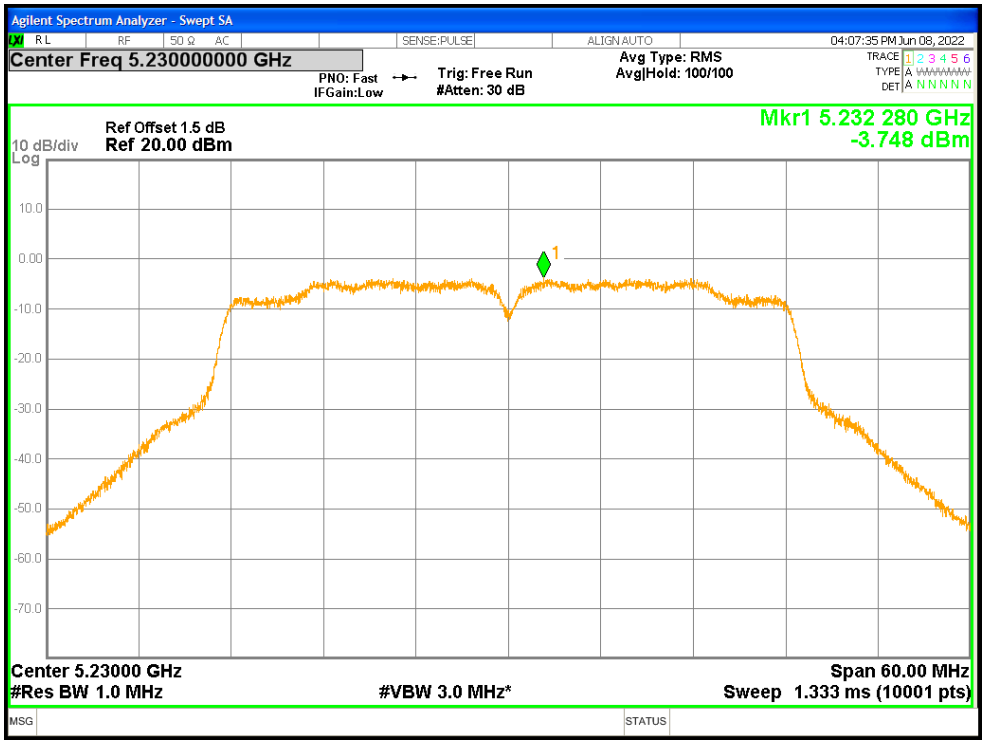
PSD NVNT n20 5240MHz



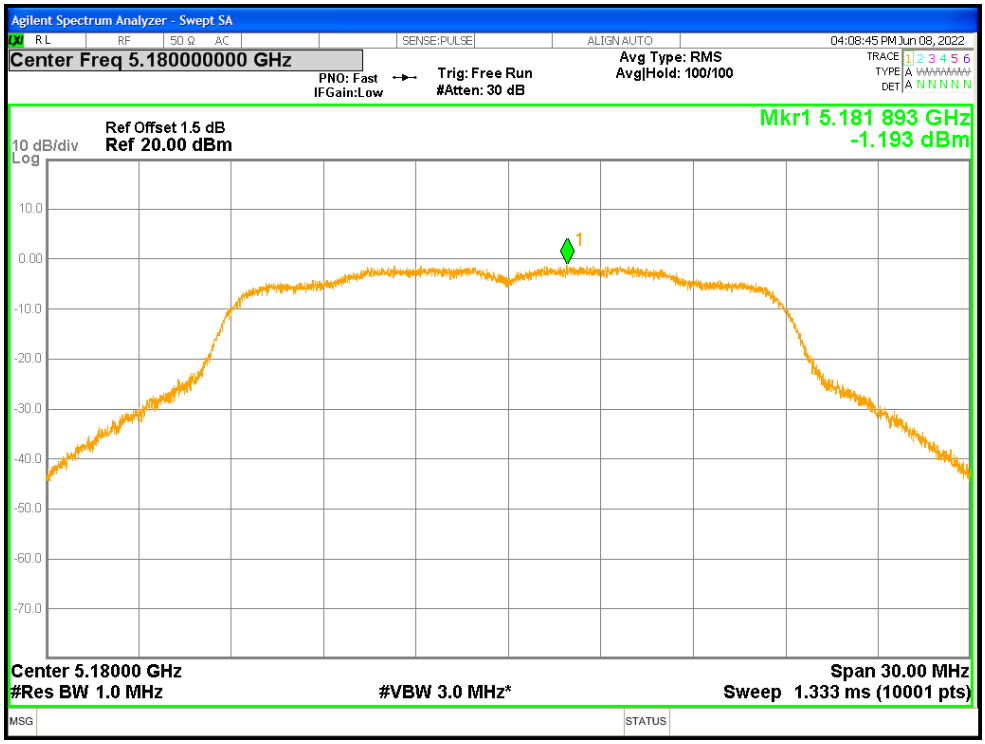
PSD NVNT n40 5190MHz



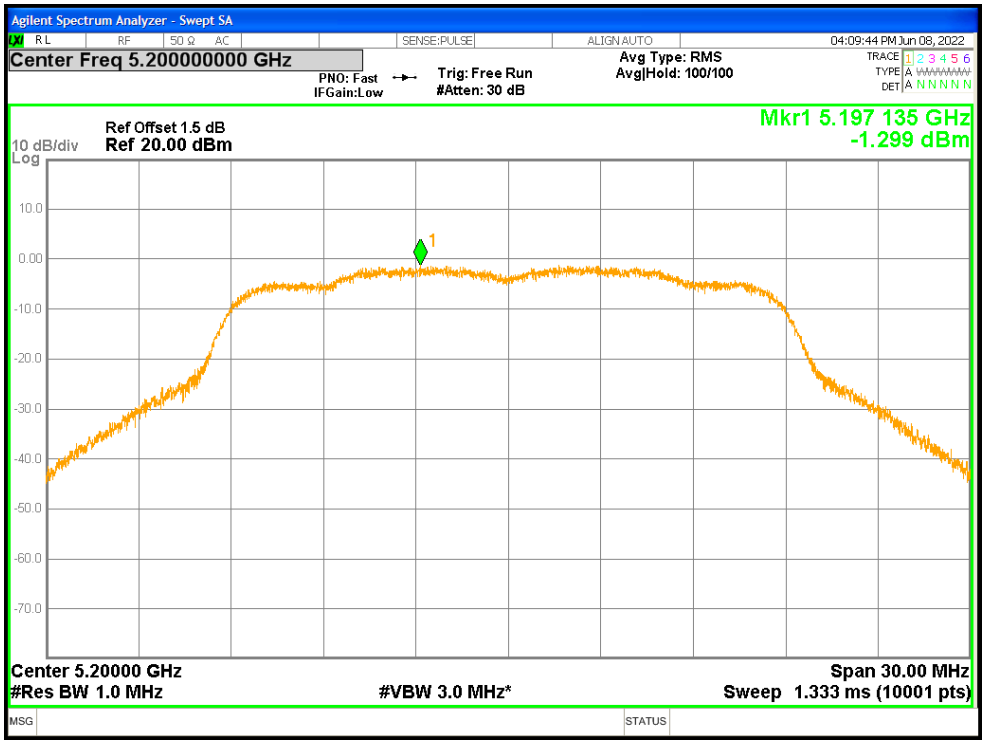
PSD NVNT n40 5230MHz



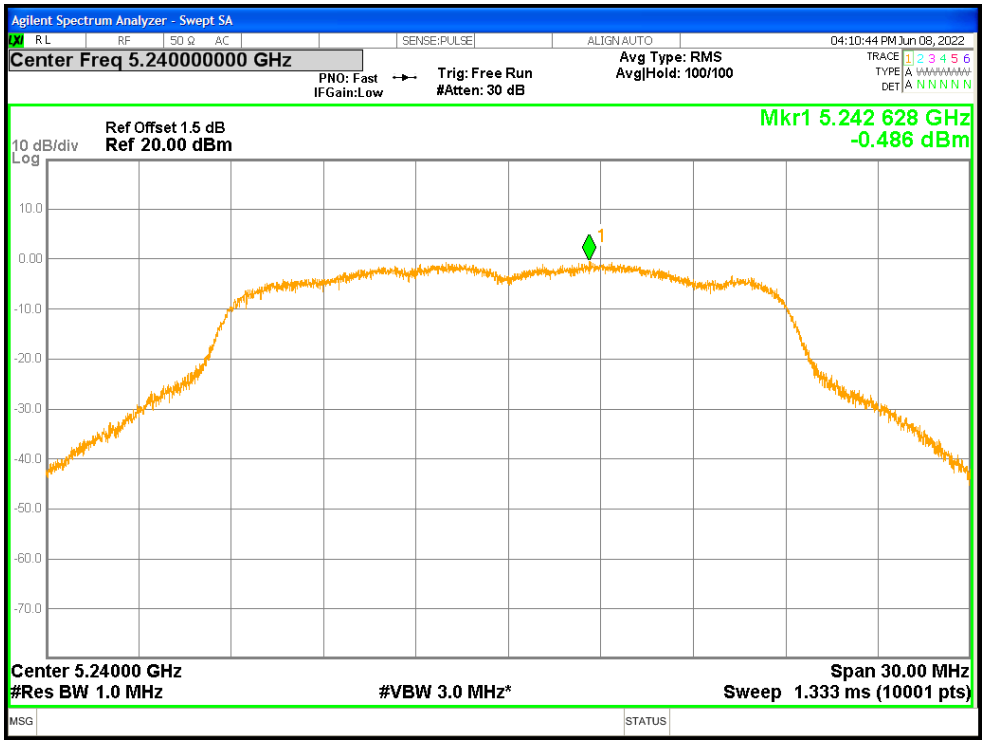
PSD NVNT ac20 5180MHz



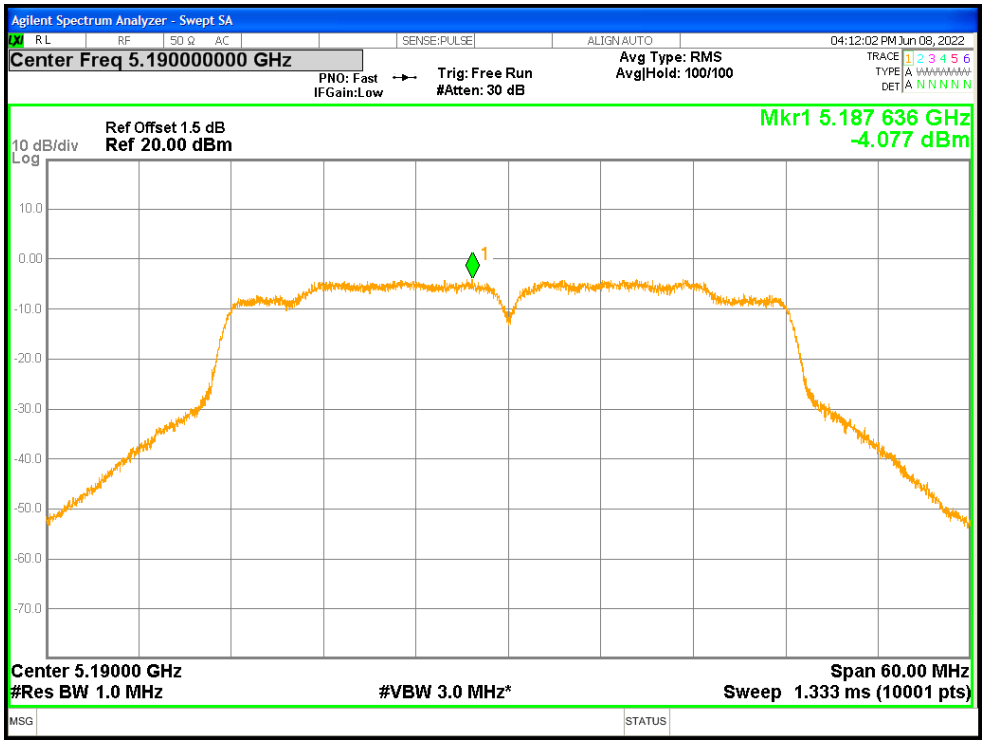
PSD NVNT ac20 5200MHz



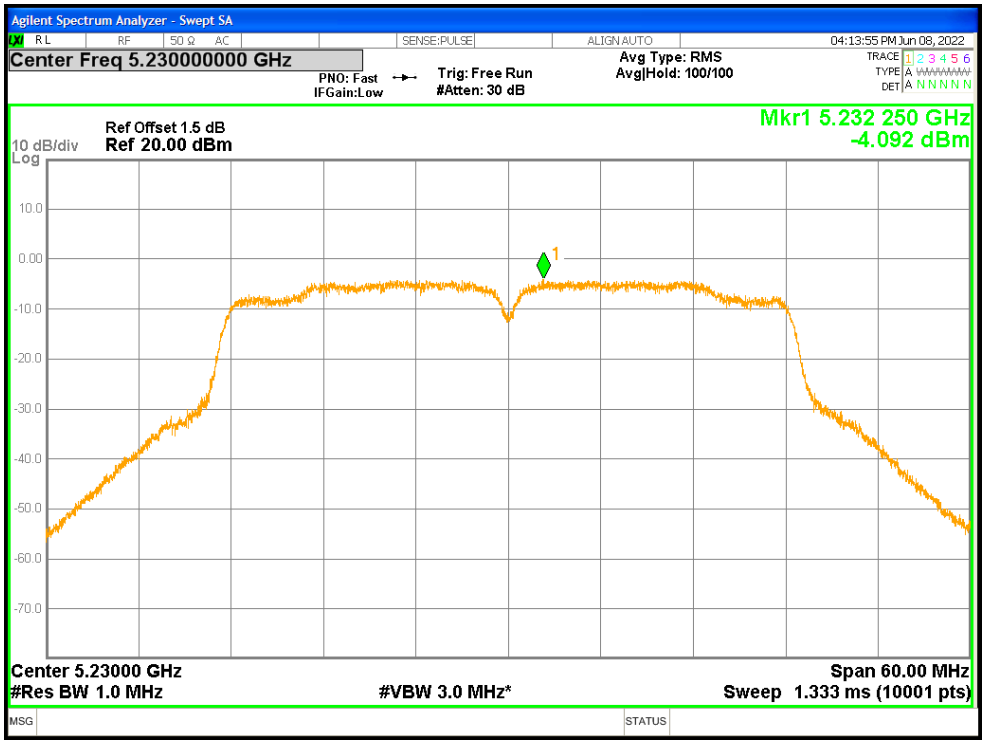
PSD NVNT ac20 5240MHz



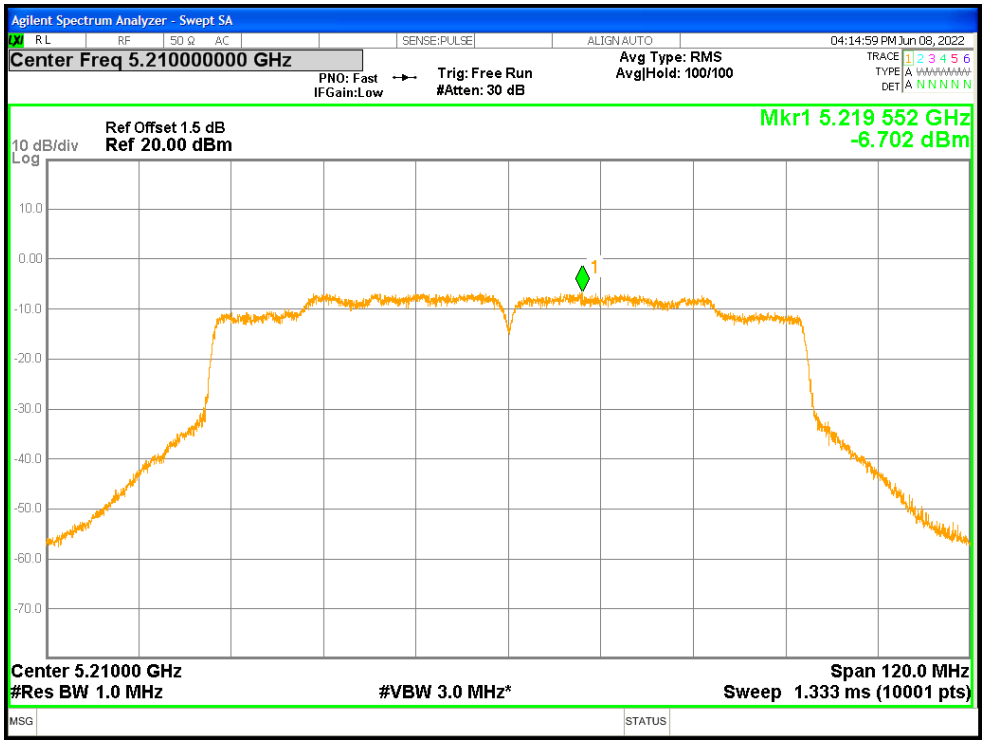
PSD NVNT ac40 5190MHz



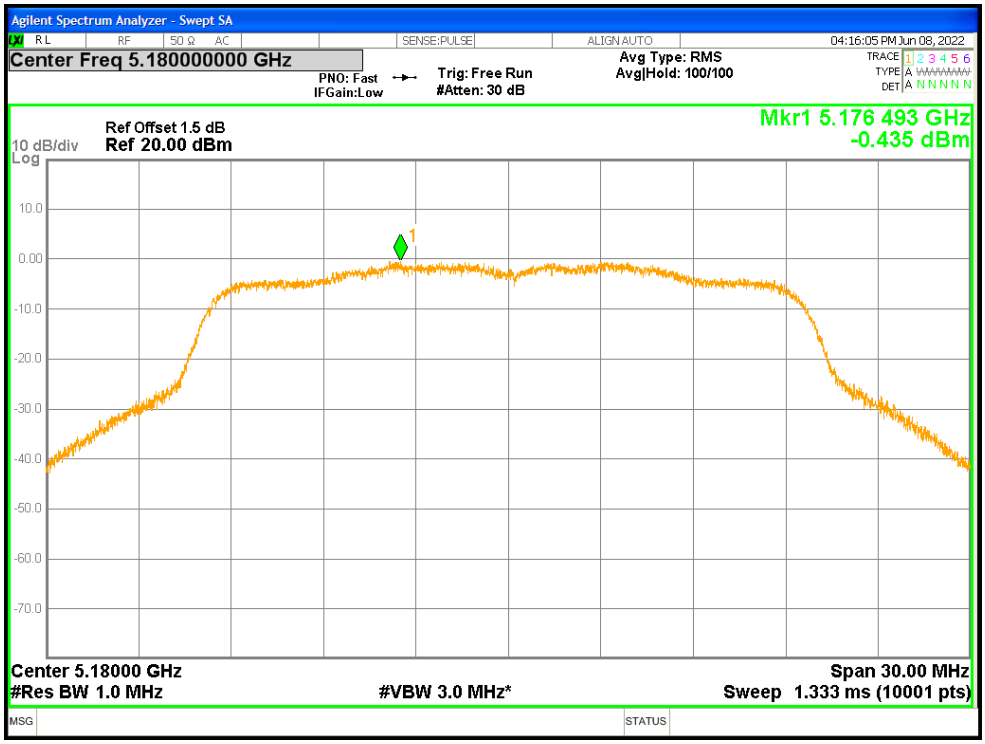
PSD NVNT ac40 5230MHz



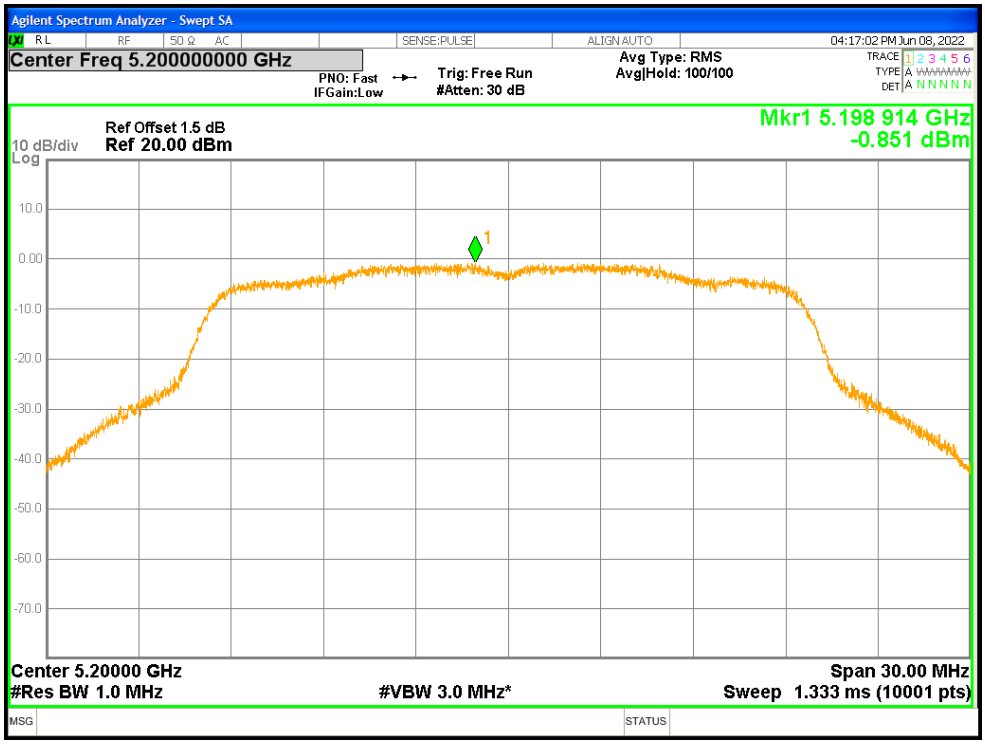
PSD NVNT ac80 5210MHz



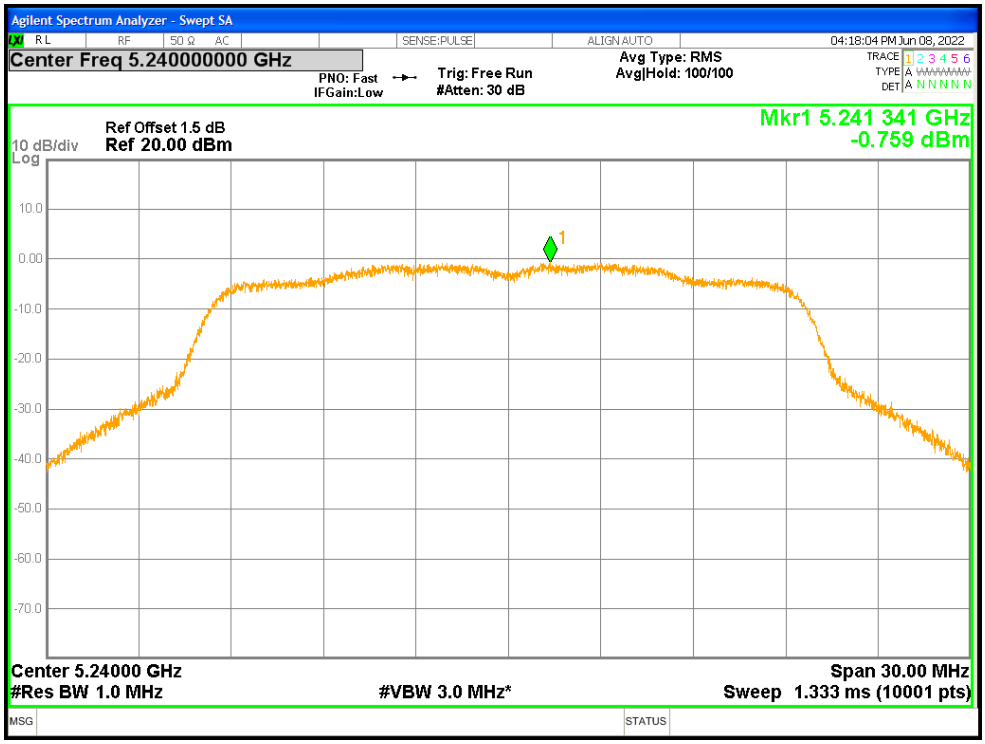
PSD NVNT ax20 5180MHz



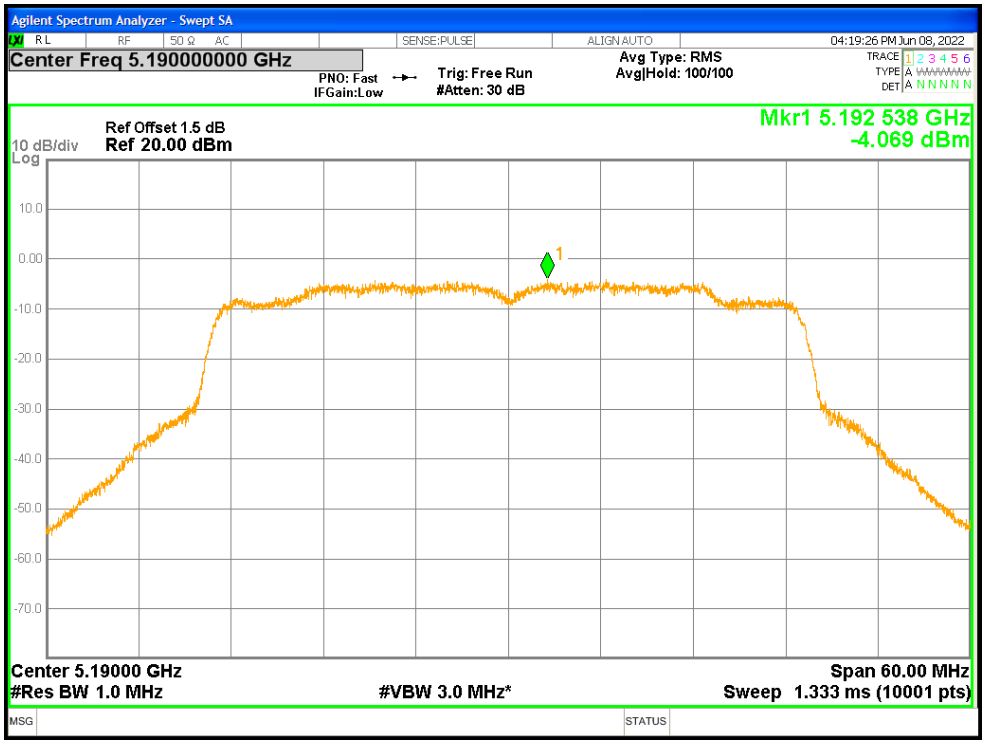
PSD NVNT ax20 5200MHz



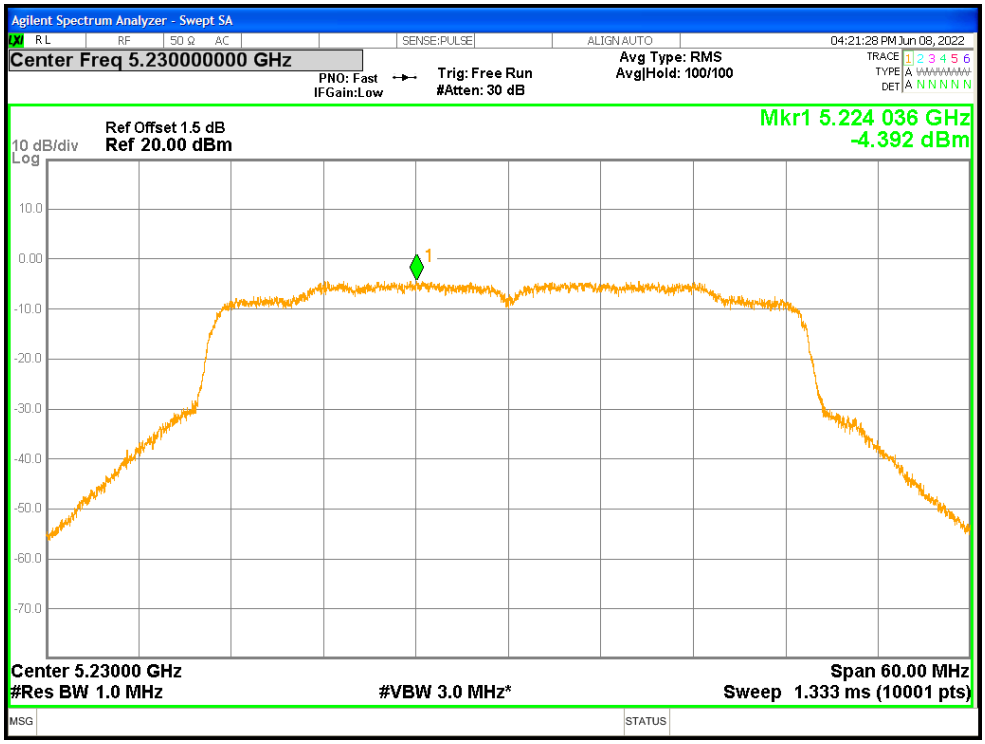
PSD NVNT ax20 5240MHz



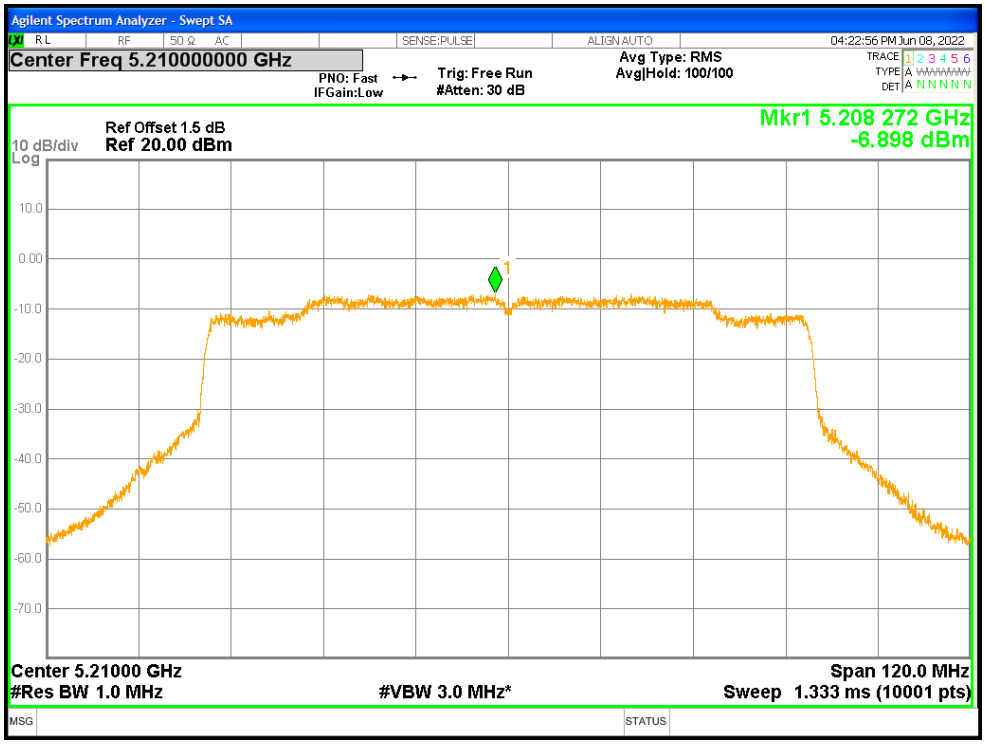
PSD NVNT ax40 5190MHz



PSD NVNT ax40 5230MHz

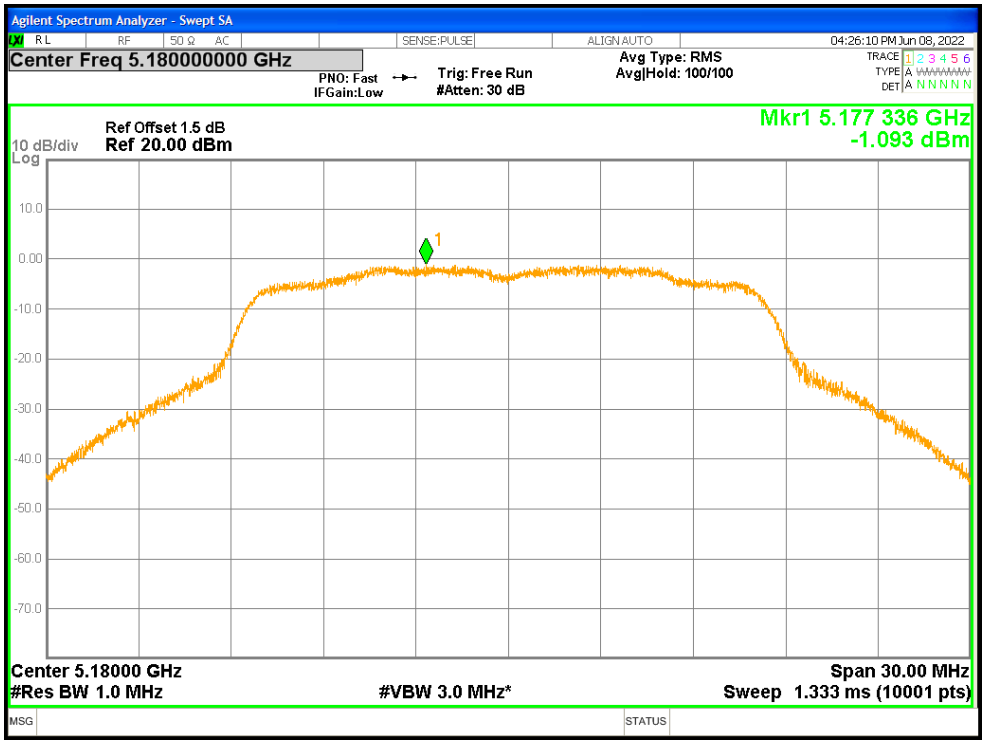


PSD NVNT ax80 5210MHz

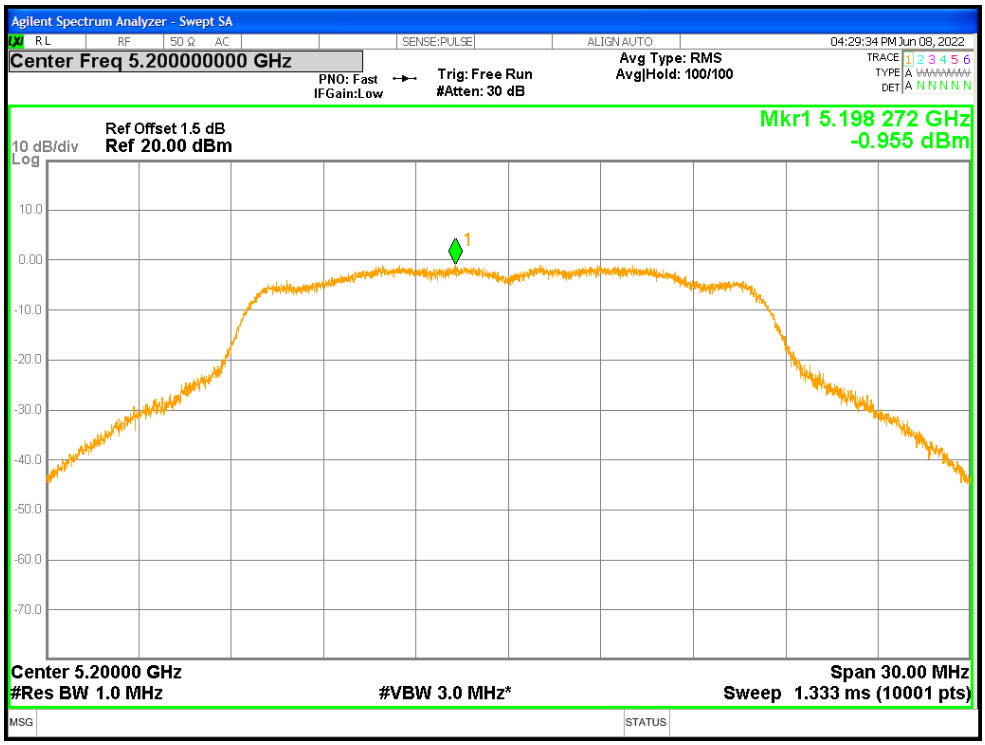


ANT B

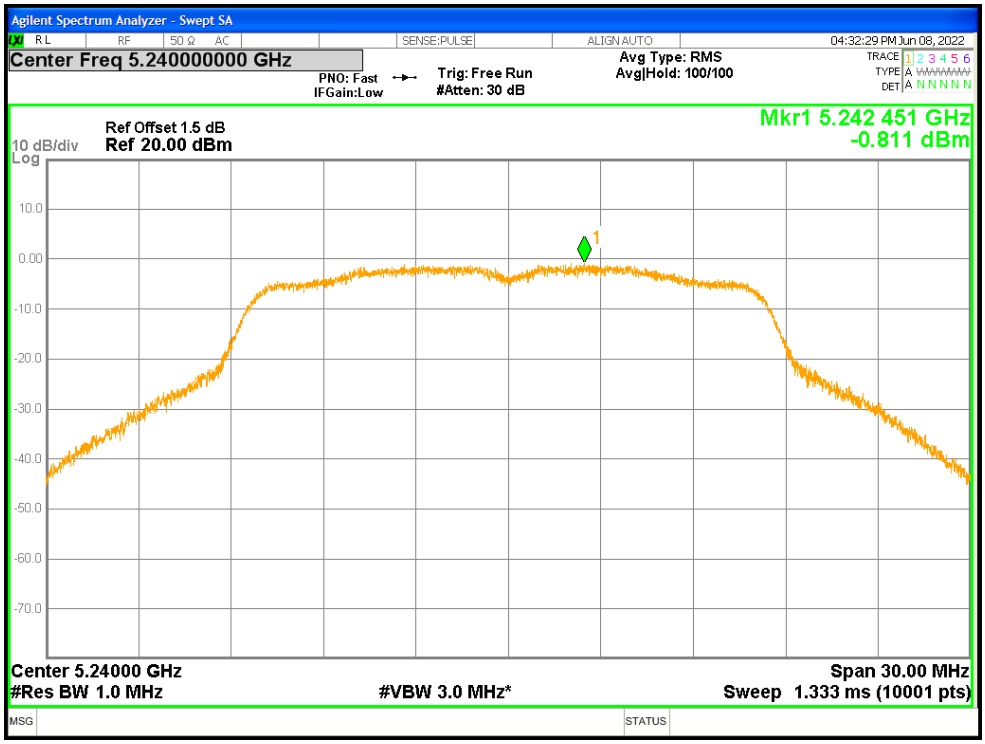
Test Graphs
PSD NVNT a 5180MHz



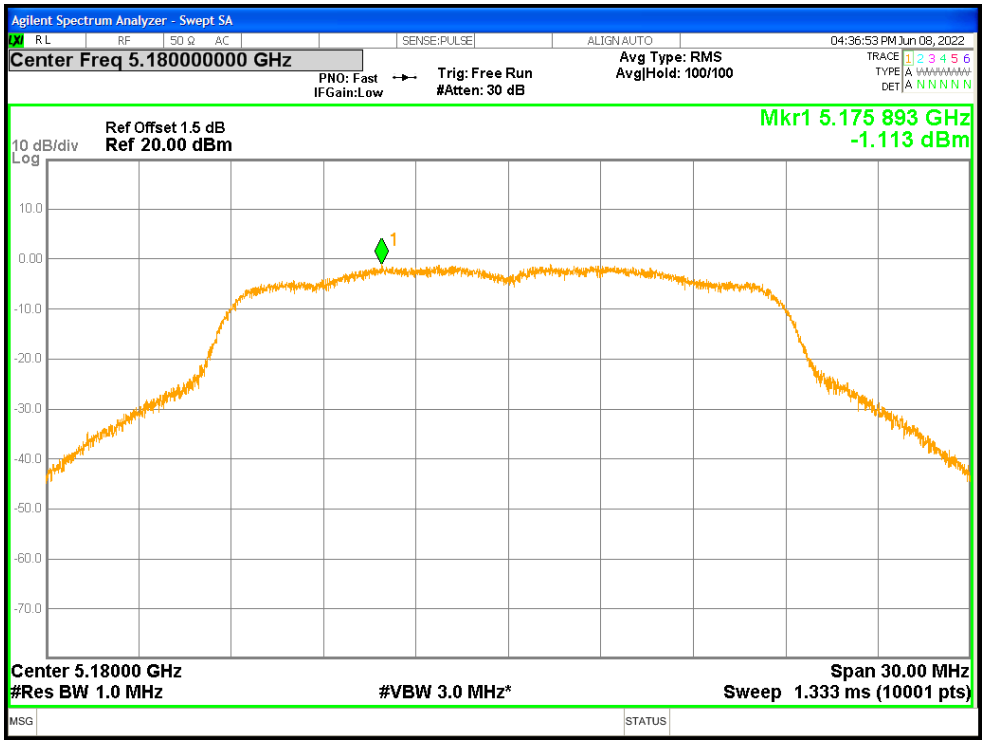
PSD NVNT a 5200MHz



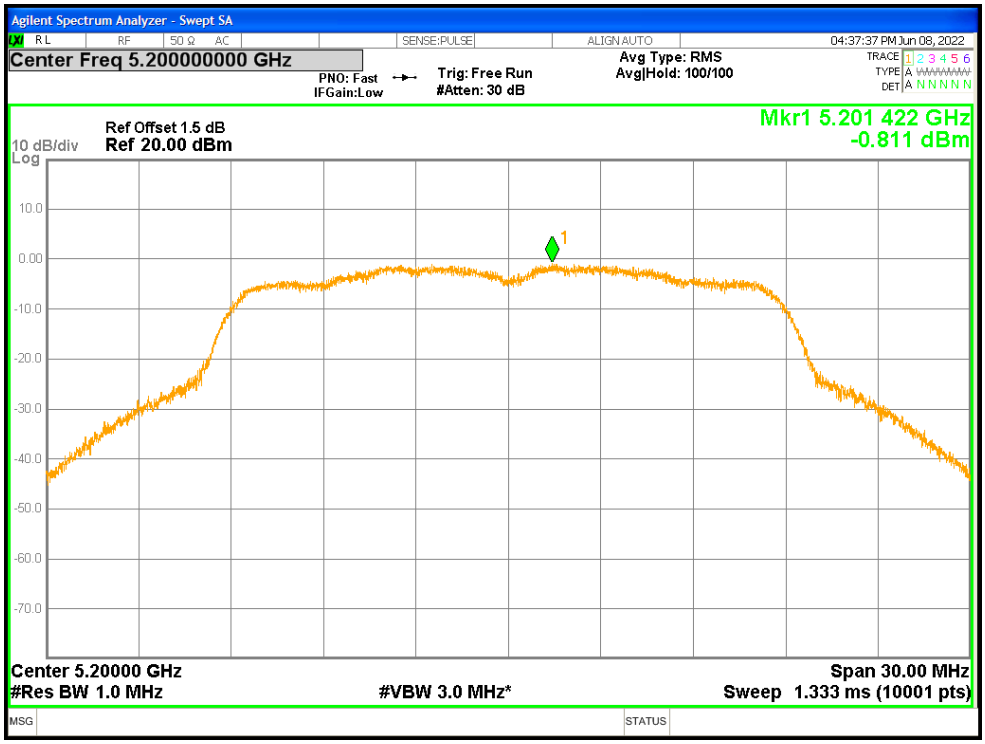
PSD NVNT a 5240MHz



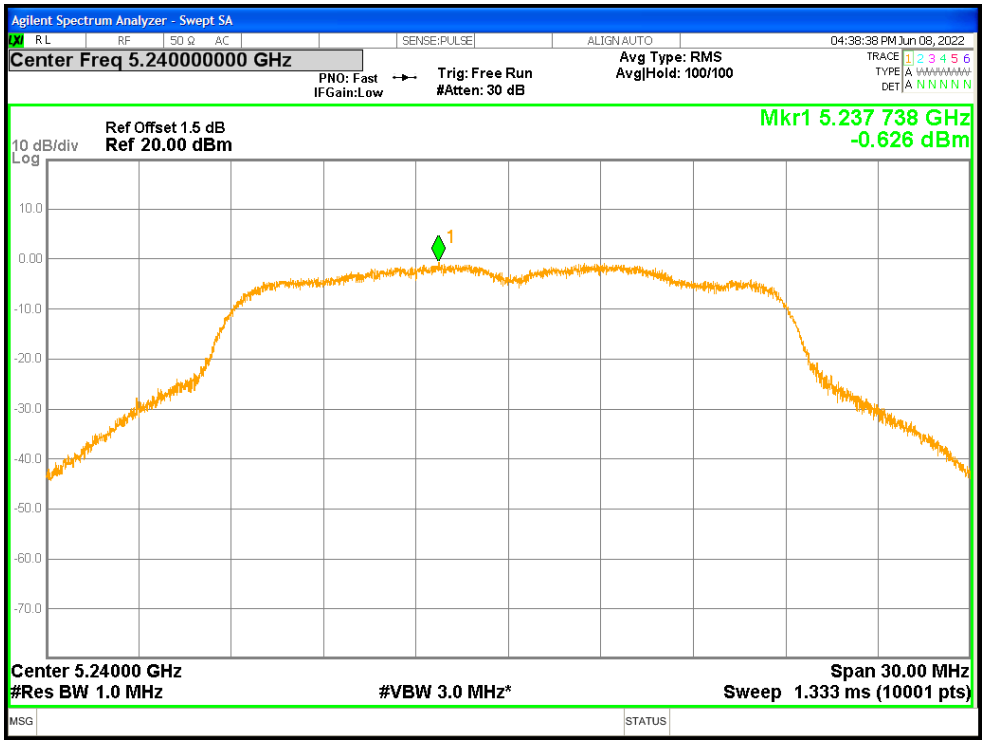
PSD NVNT n20 5180MHz



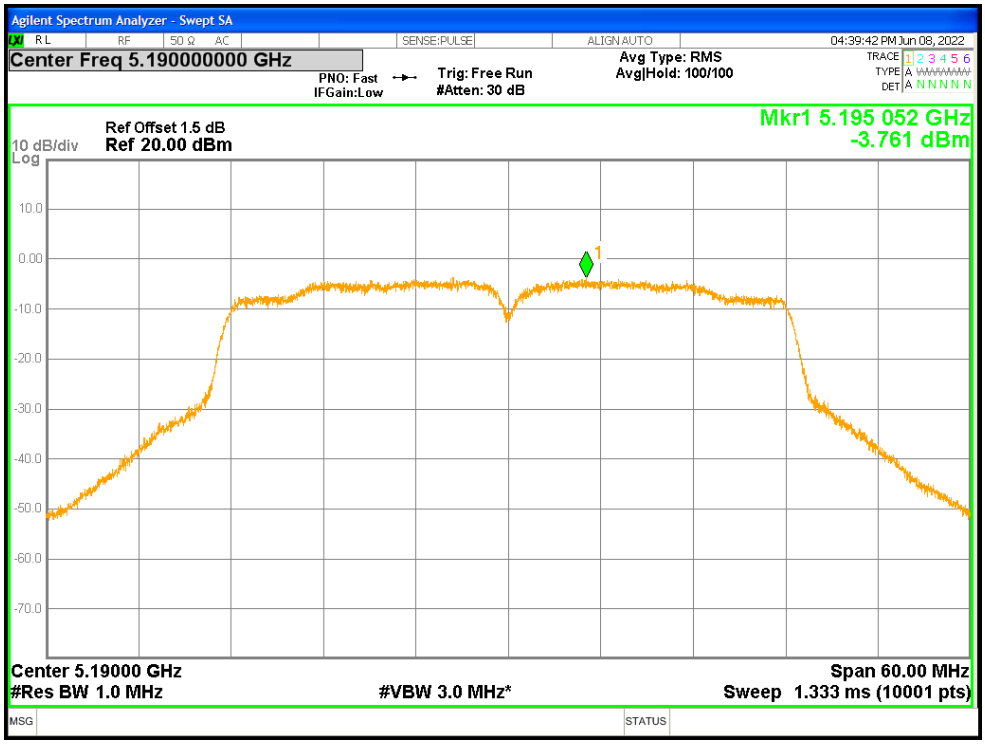
PSD NVNT n20 5200MHz



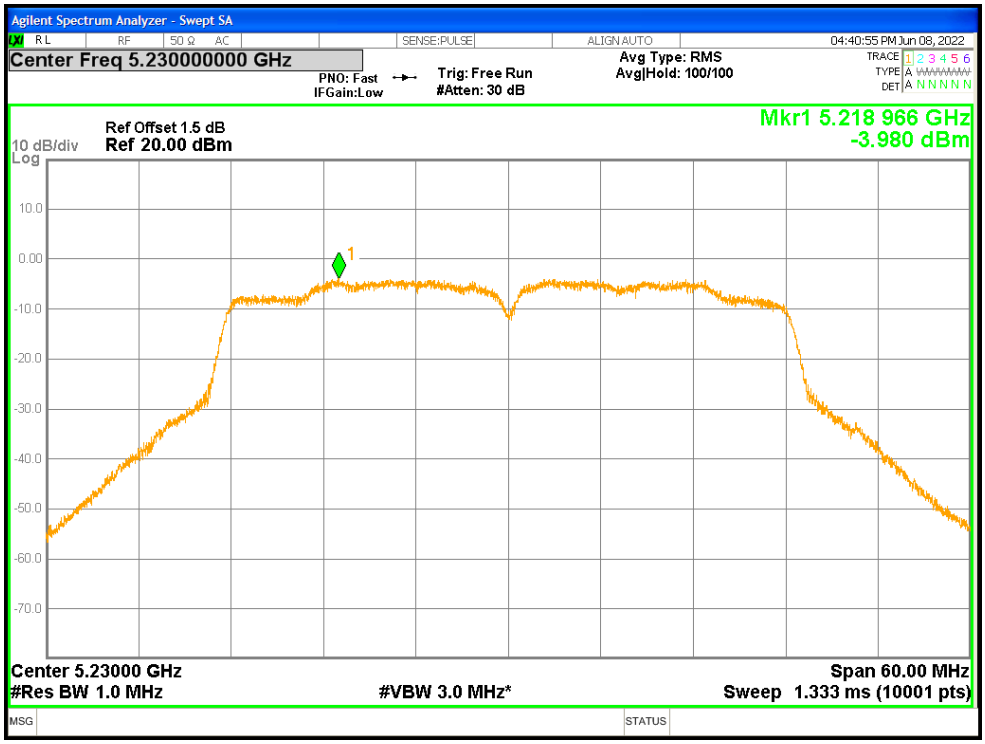
PSD NVNT n20 5240MHz



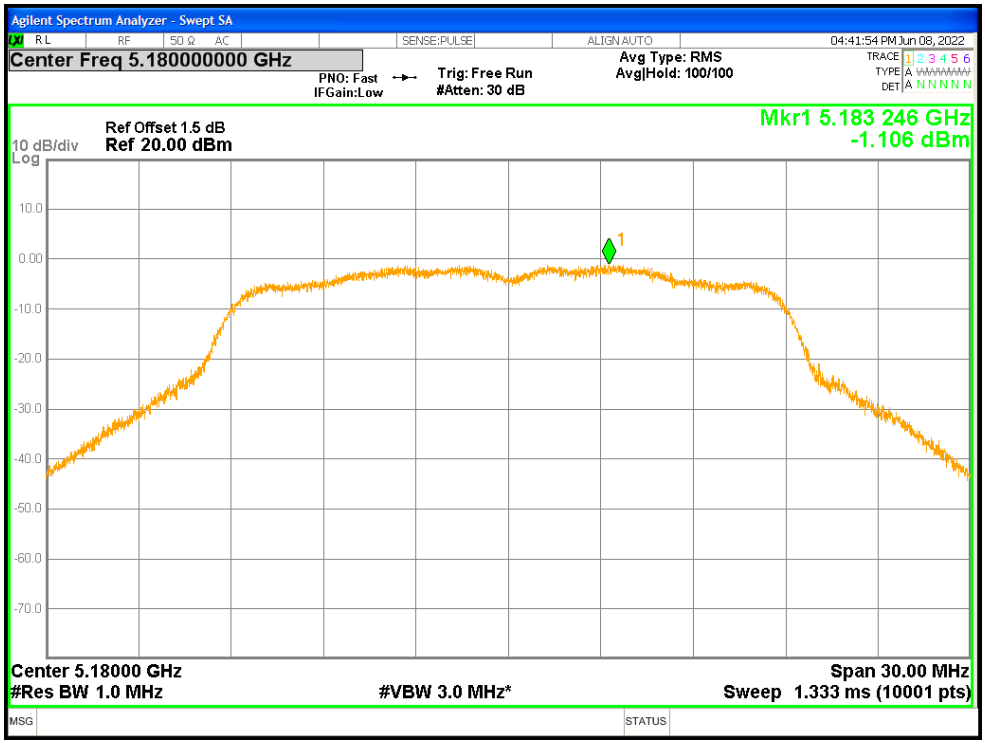
PSD NVNT n40 5190MHz



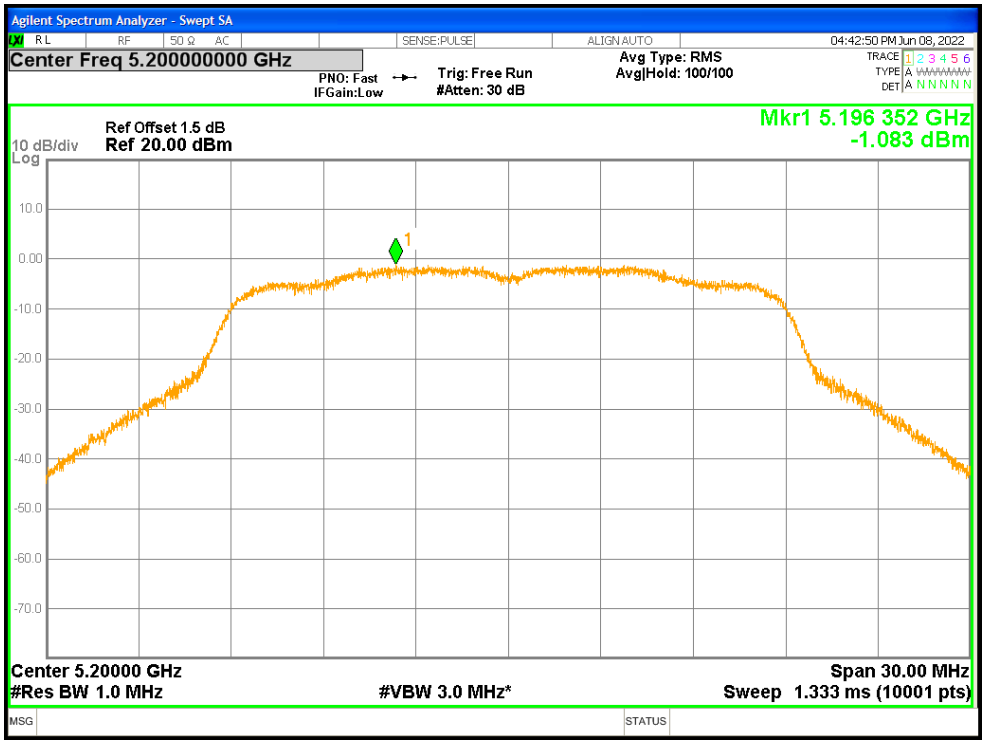
PSD NVNT n40 5230MHz



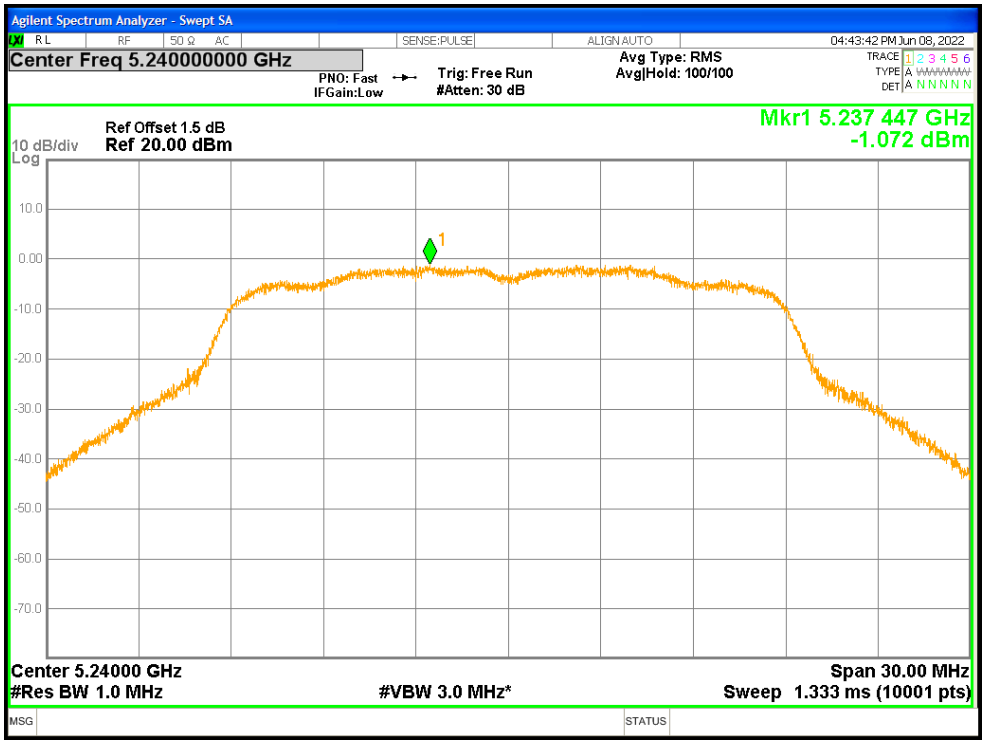
PSD NVNT ac20 5180MHz



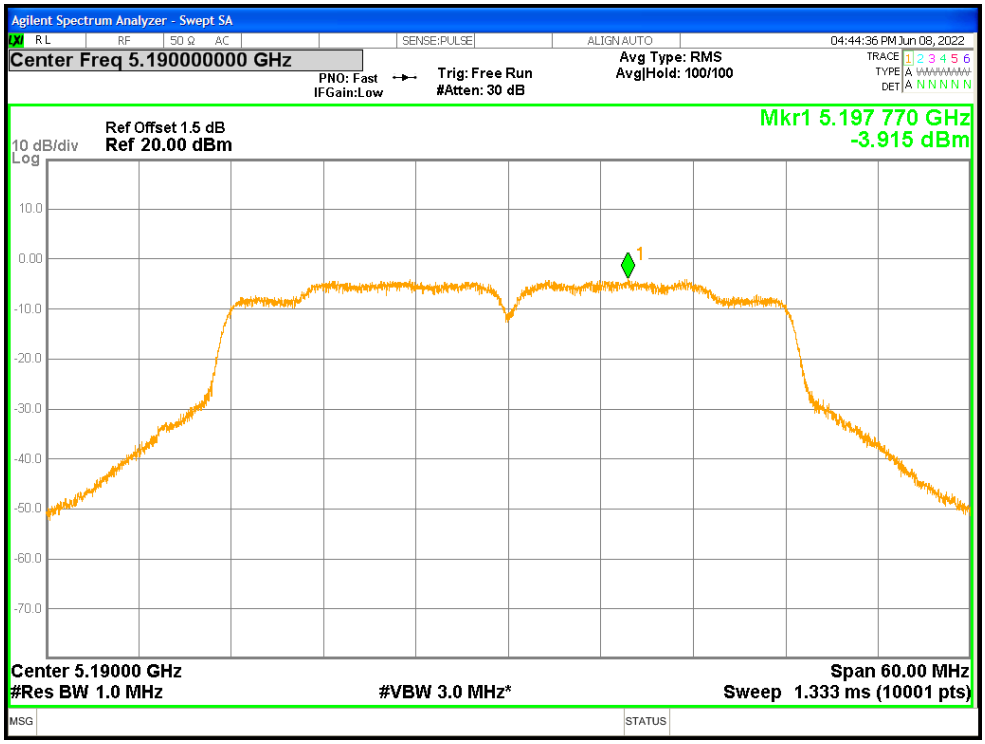
PSD NVNT ac20 5200MHz



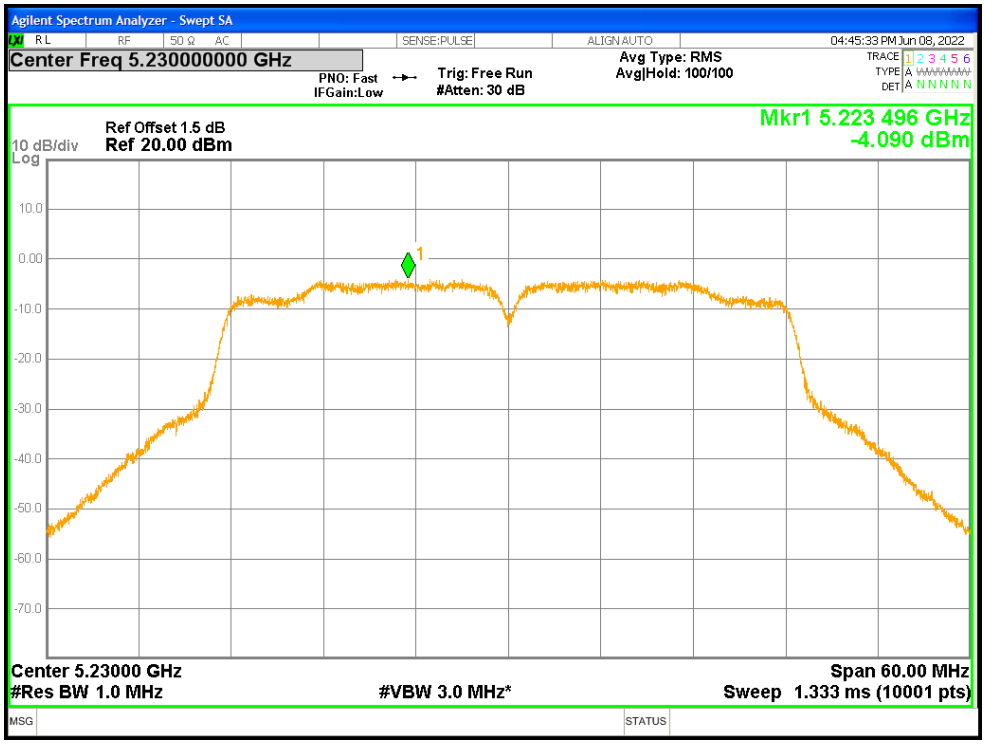
PSD NVNT ac20 5240MHz



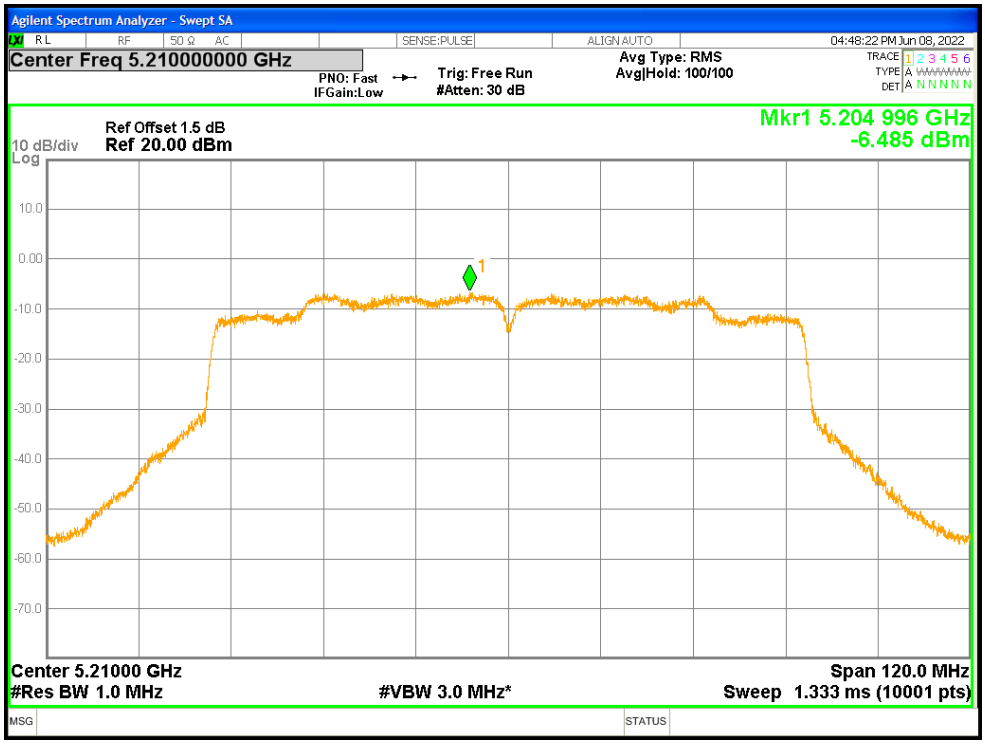
PSD NVNT ac40 5190MHz



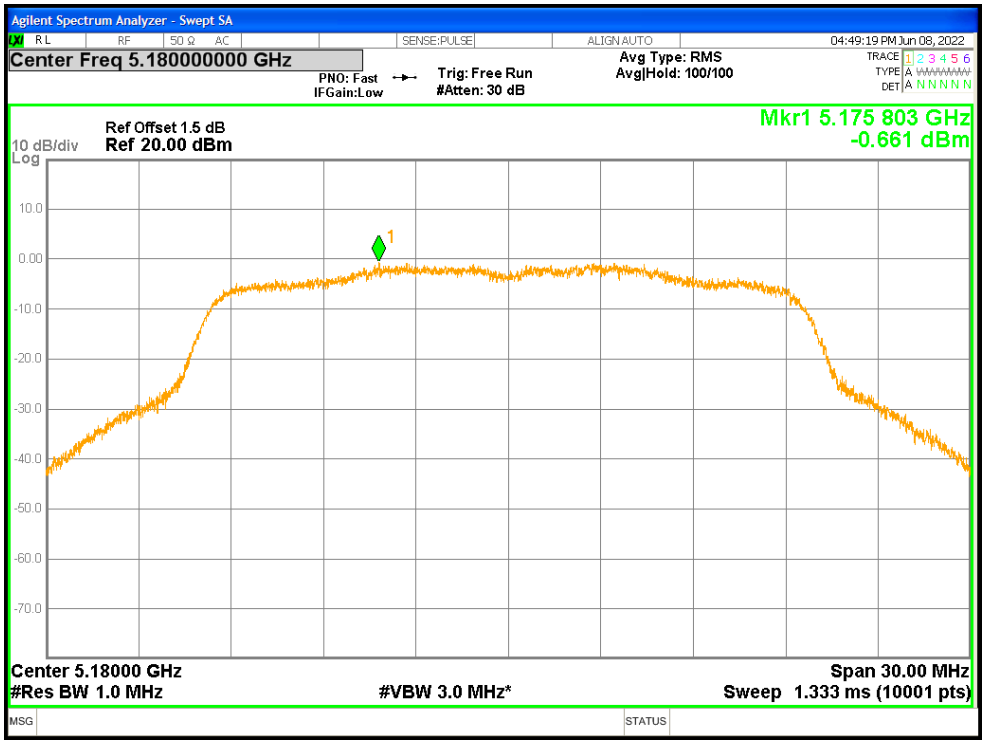
PSD NVNT ac40 5230MHz



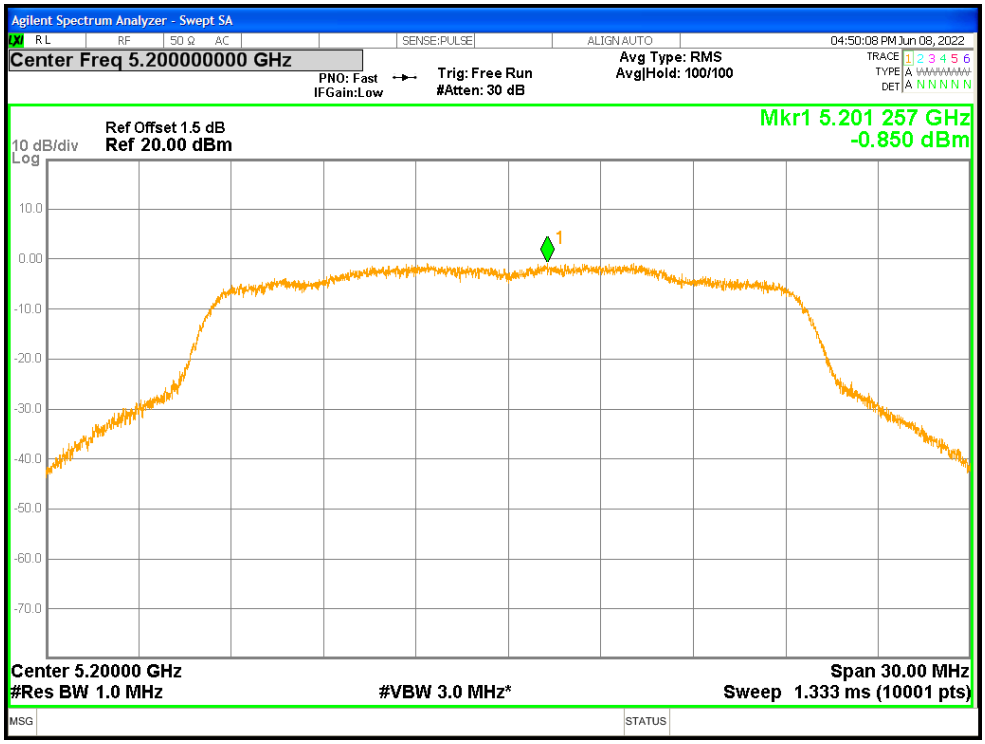
PSD NVNT ac80 5210MHz



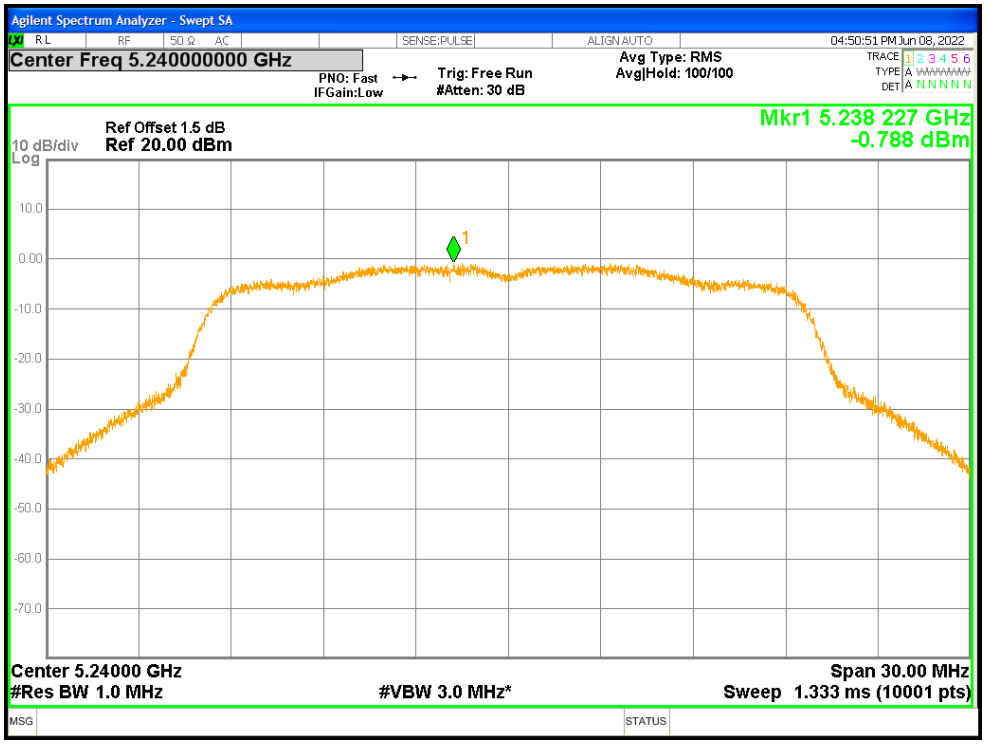
PSD NVNT ax20 5180MHz



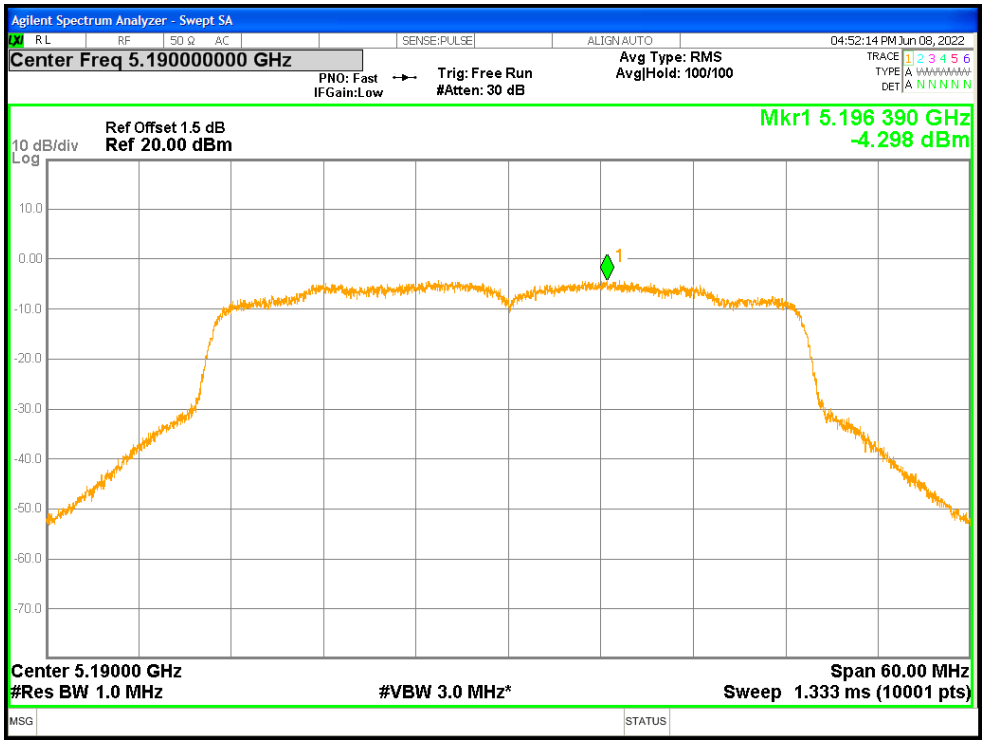
PSD NVNT ax20 5200MHz



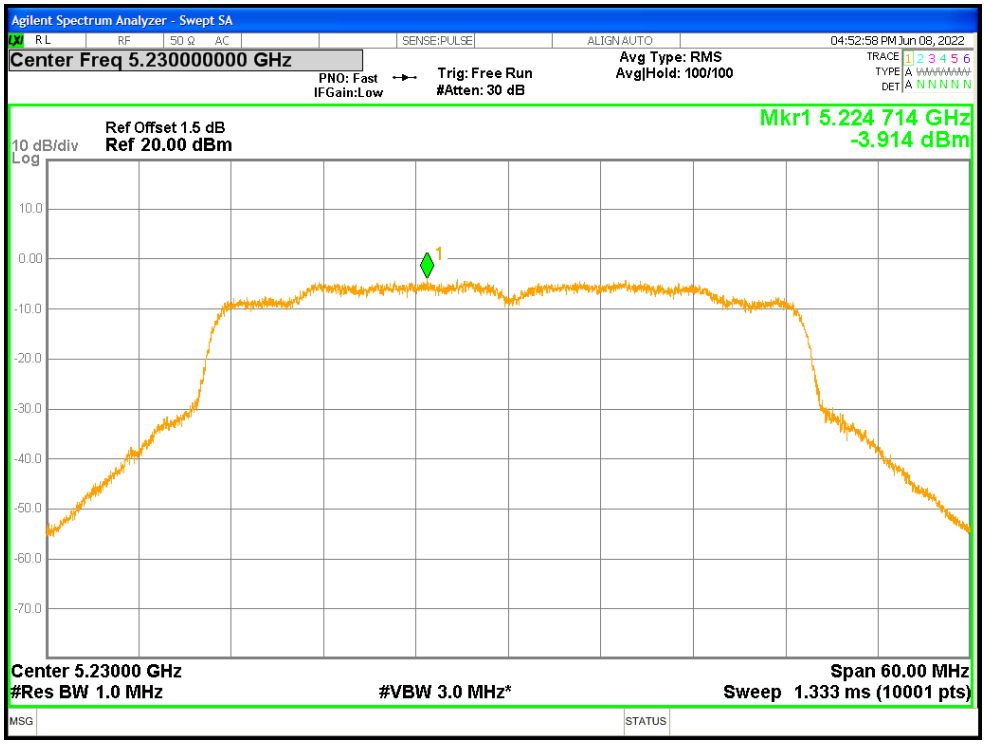
PSD NVNT ax20 5240MHz



PSD NVNT ax40 5190MHz



PSD NVNT ax40 5230MHz



PSD NVNT ax80 5210MHz