
FCC ID: 2BMHL-X1PRO

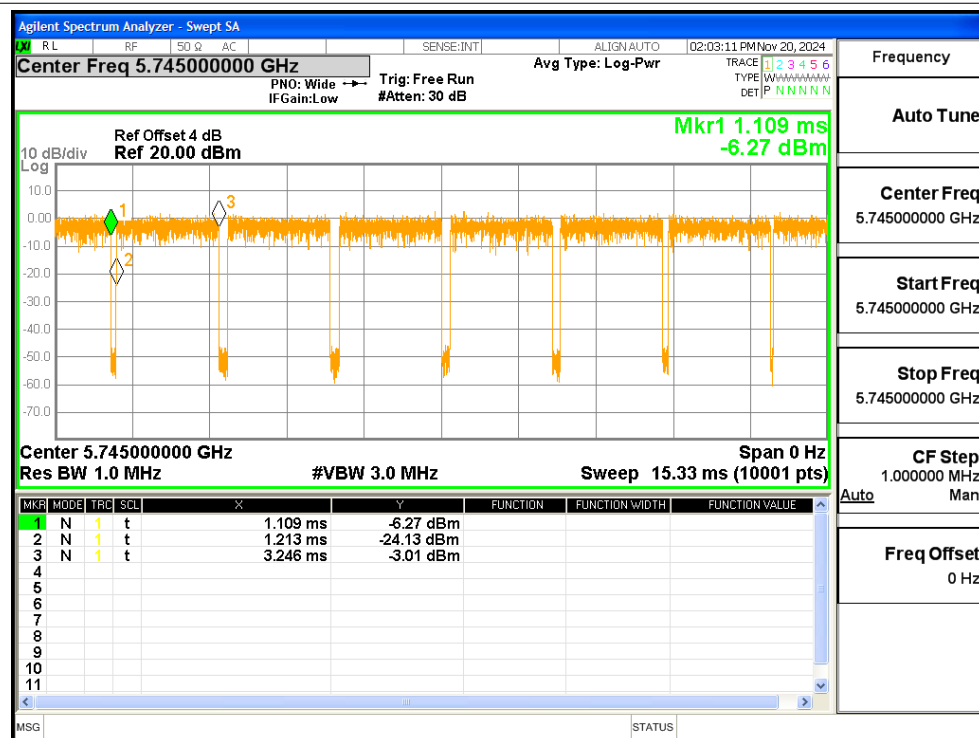
Duty Cycle	2
Maximum Conducted Output Power	12
-6dB Bandwidth	22
Occupied Channel Bandwidth	32
Maximum Power Spectral Density Level	42
Band Edge	52
Frequency Stability	59
Conducted RF Spurious Emission	69

Duty Cycle

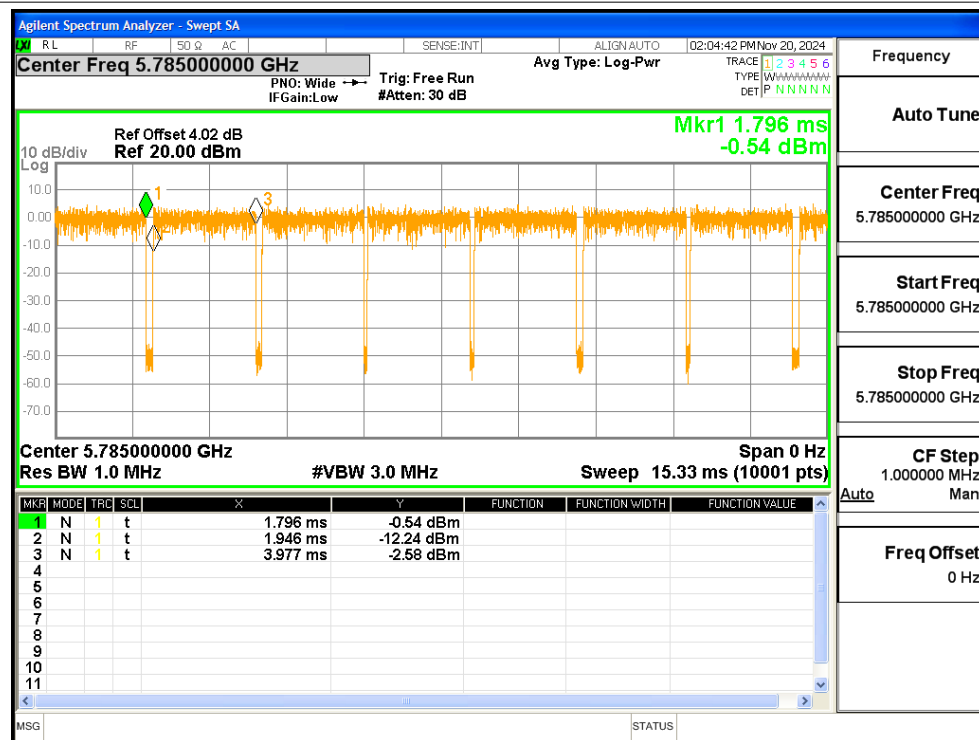
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	95.12	0.22	0.49
		5785		93.11	0.31	0.49
		5825		93.91	0.27	0.49
	n20	5745		95.58	0.2	0.53
		5785		95.66	0.19	0.53
		5825		93.91	0.27	0.53
	n40	5755		89.96	0.46	1.07
		5795		80	0.97	1.07
	ac20	5745		92.74	0.33	0.53
		5785		96.12	0.17	0.53
		5825		92.33	0.35	0.53
	ac40	5755		93.28	0.3	1.07
		5795		88.94	0.51	1.07
	ax20	5745		90.73	0.42	0.69
		5785		89.19	0.5	0.69
		5825		90.74	0.42	0.69
	ax40	5755		86.07	0.65	1.34
		5795		87.77	0.57	1.34

Test Graphs

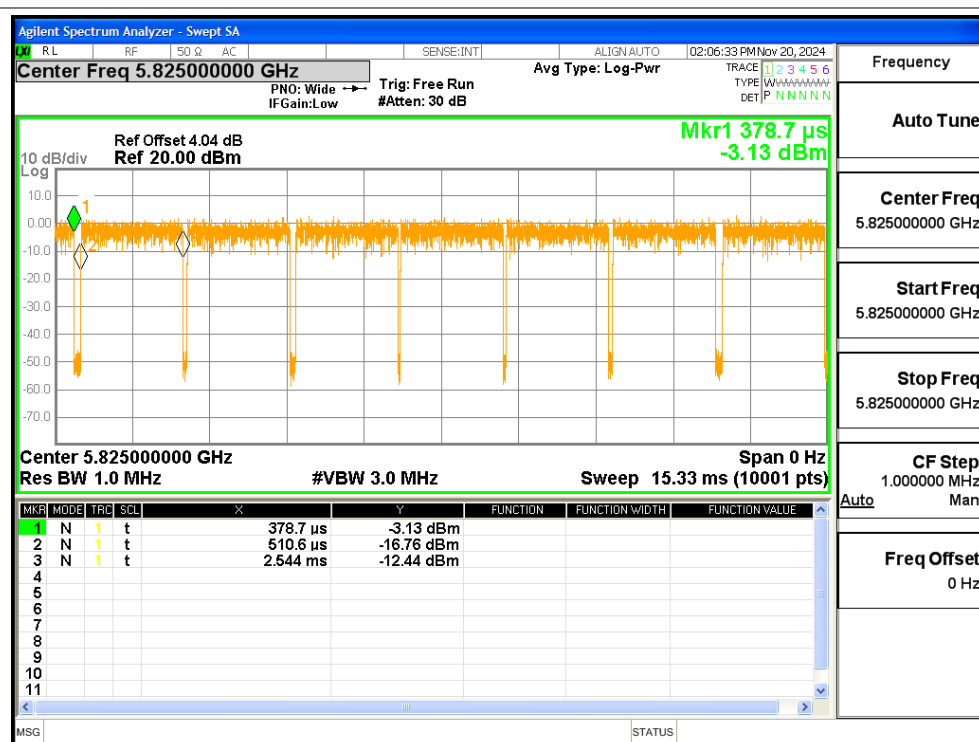
Duty Cycle NVNT a 5745MHz Ant1



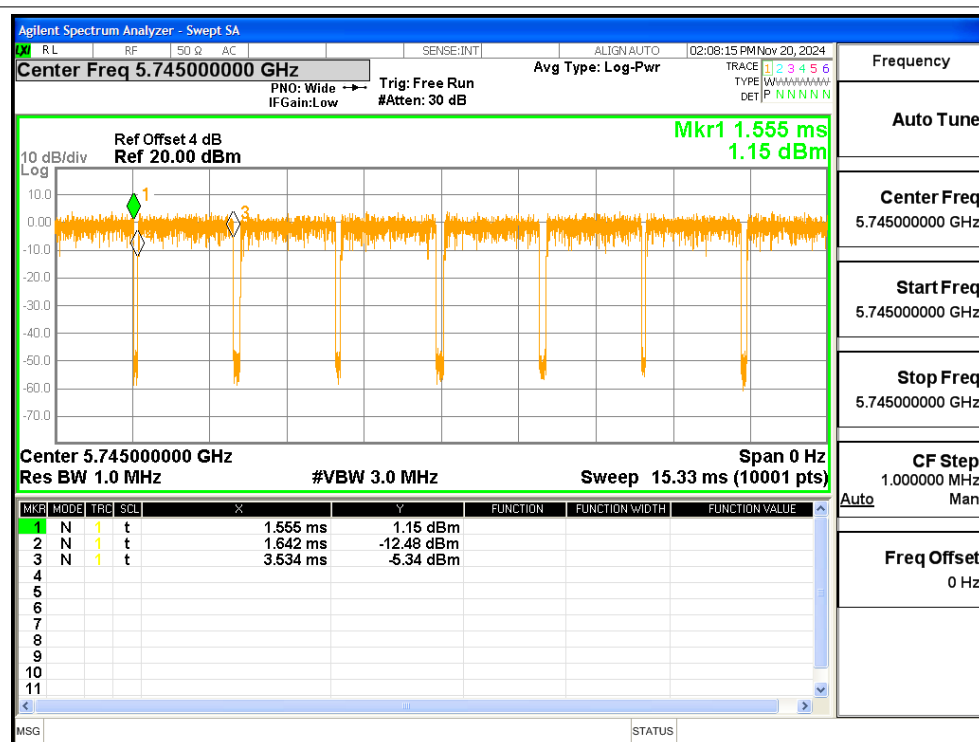
Duty Cycle NVNT a 5785MHz Ant1



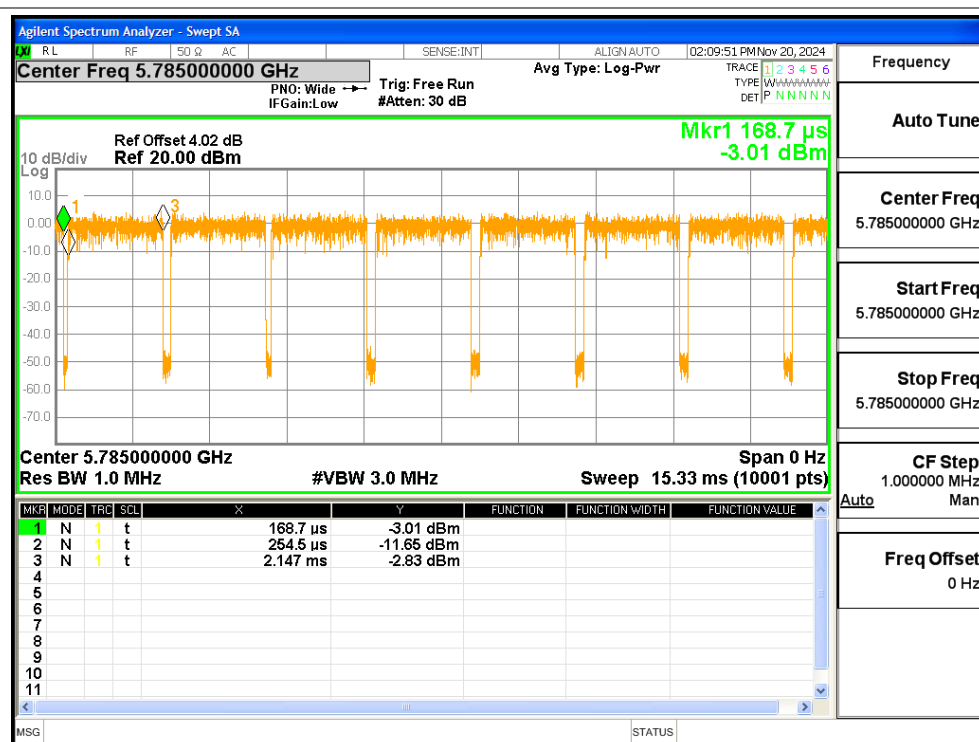
Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



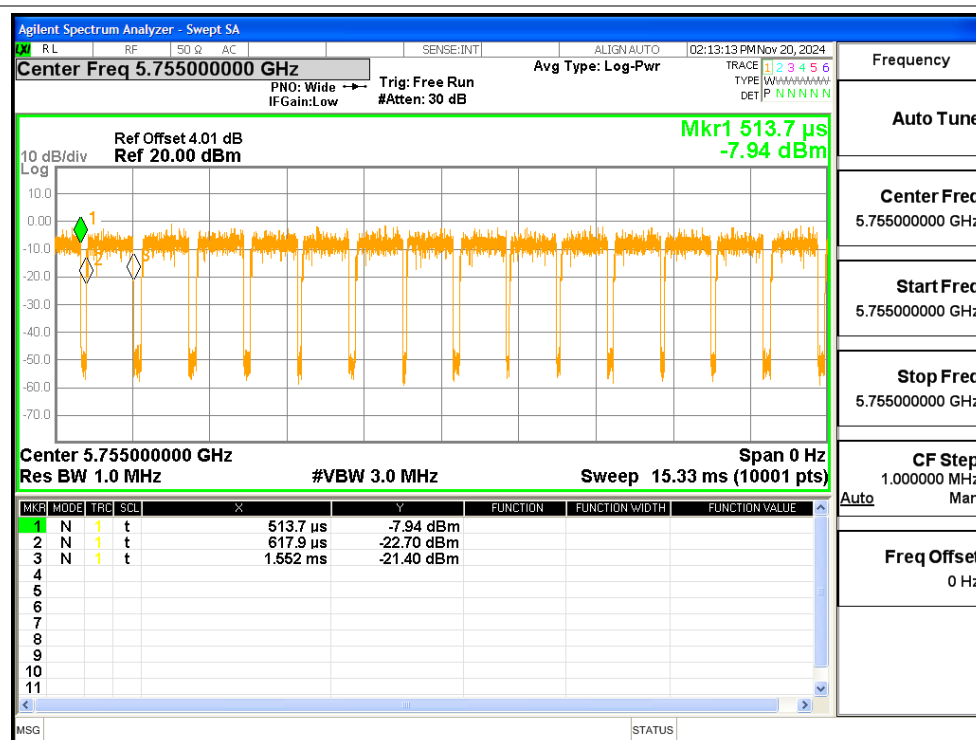
Duty Cycle NVNT n20 5785MHz Ant1



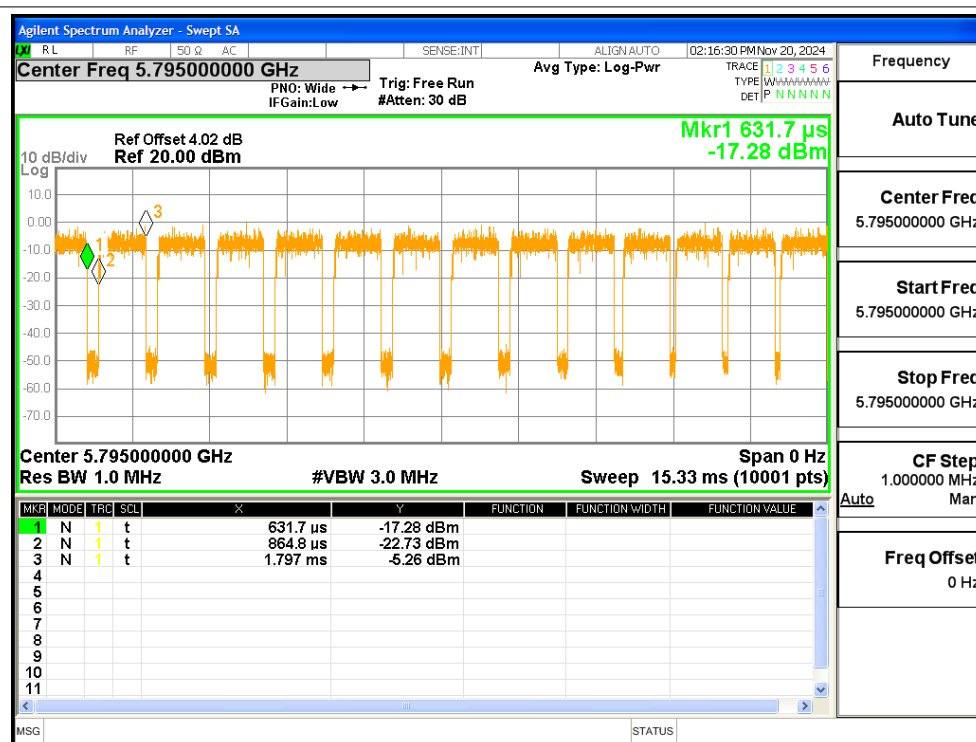
Duty Cycle NVNT n20 5825MHz Ant1

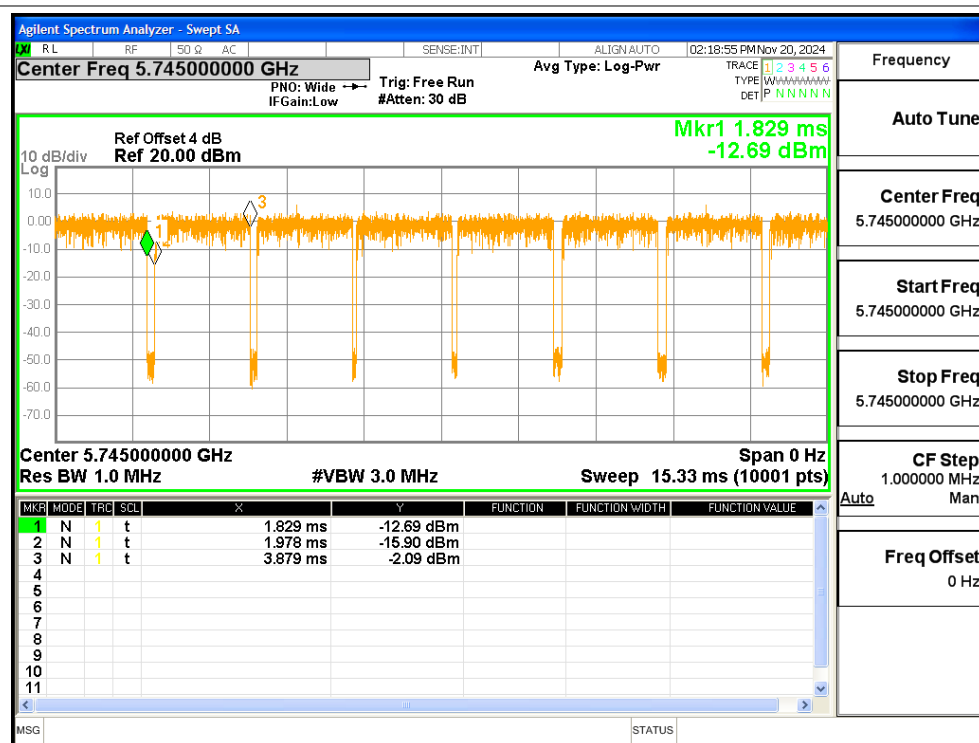


Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1

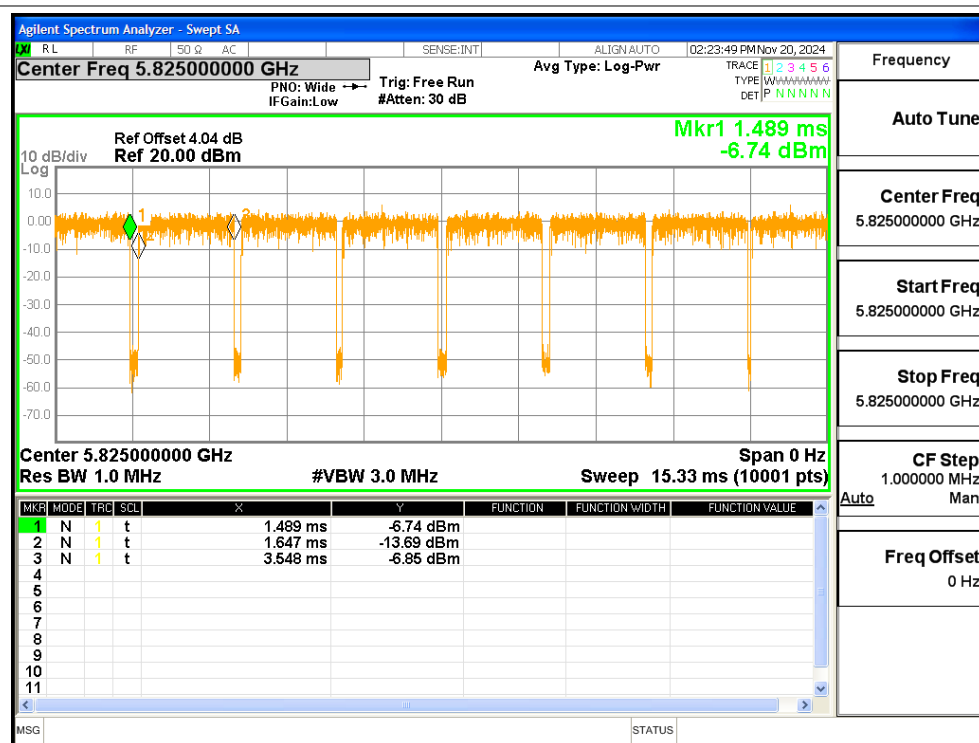




Duty Cycle NVNT ac20 5785MHz Ant1

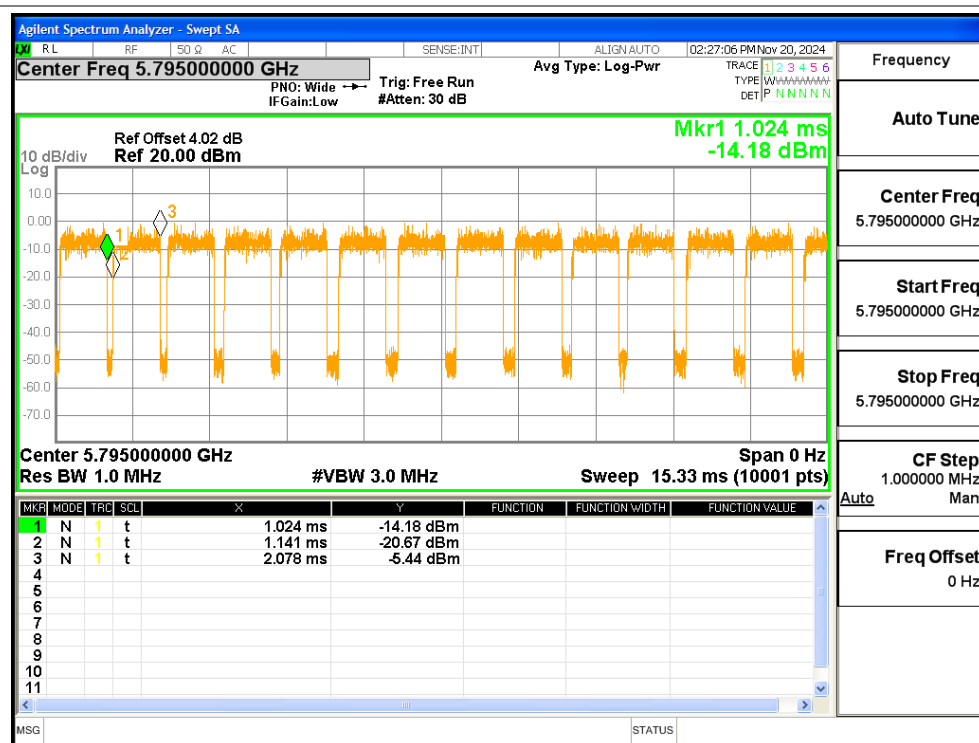


Duty Cycle NVNT ac20 5825MHz Ant1

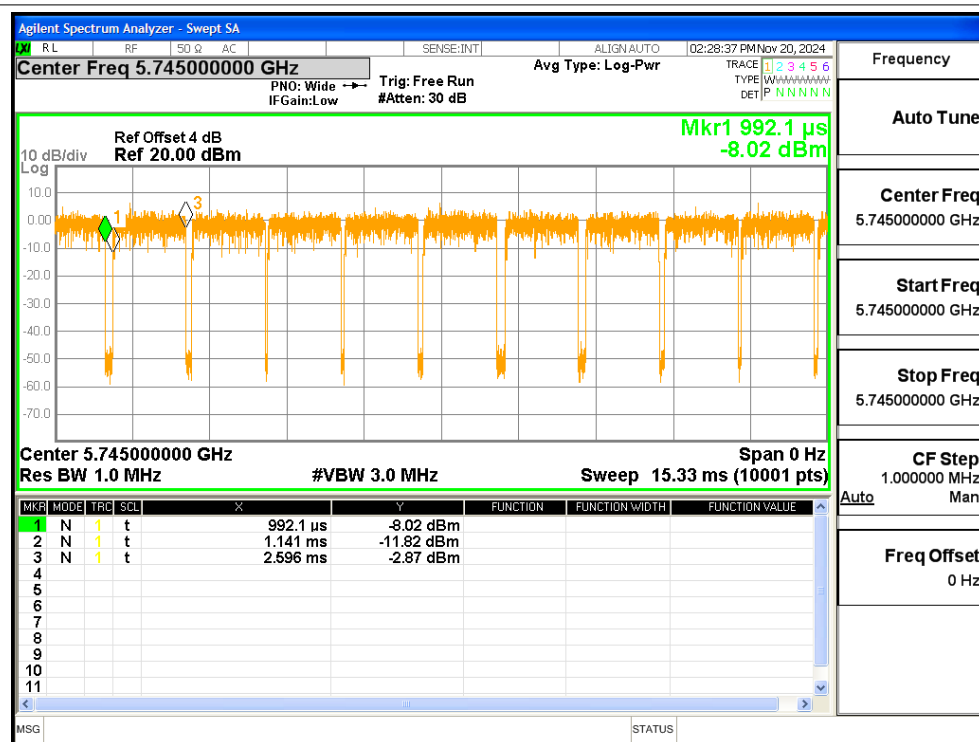


Duty Cycle NVNT ac40 5755MHz Ant1

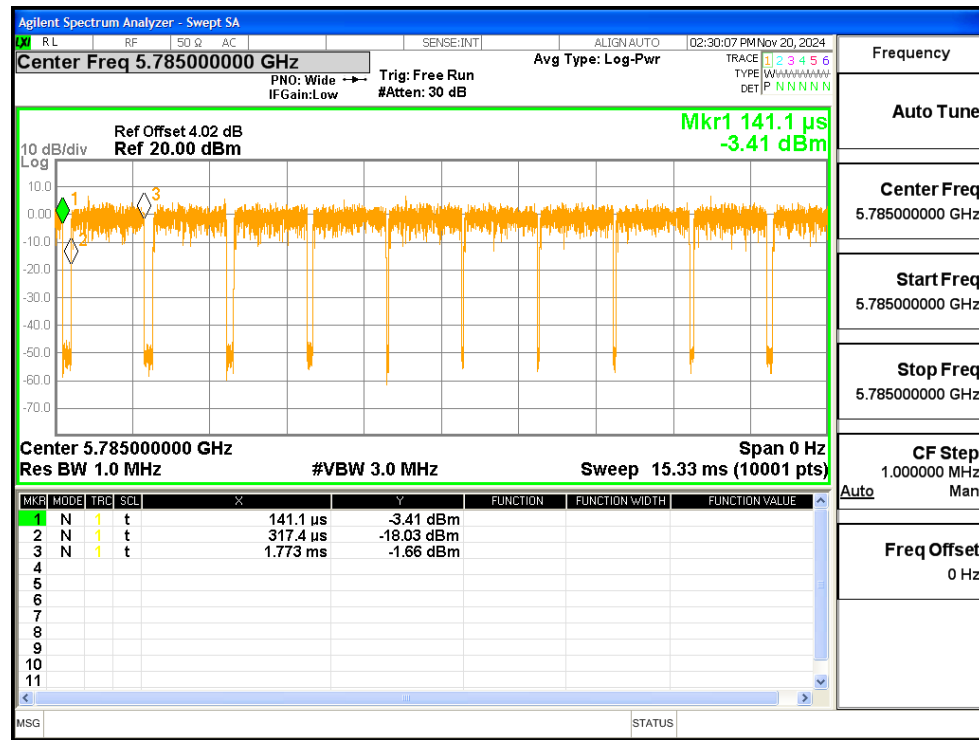




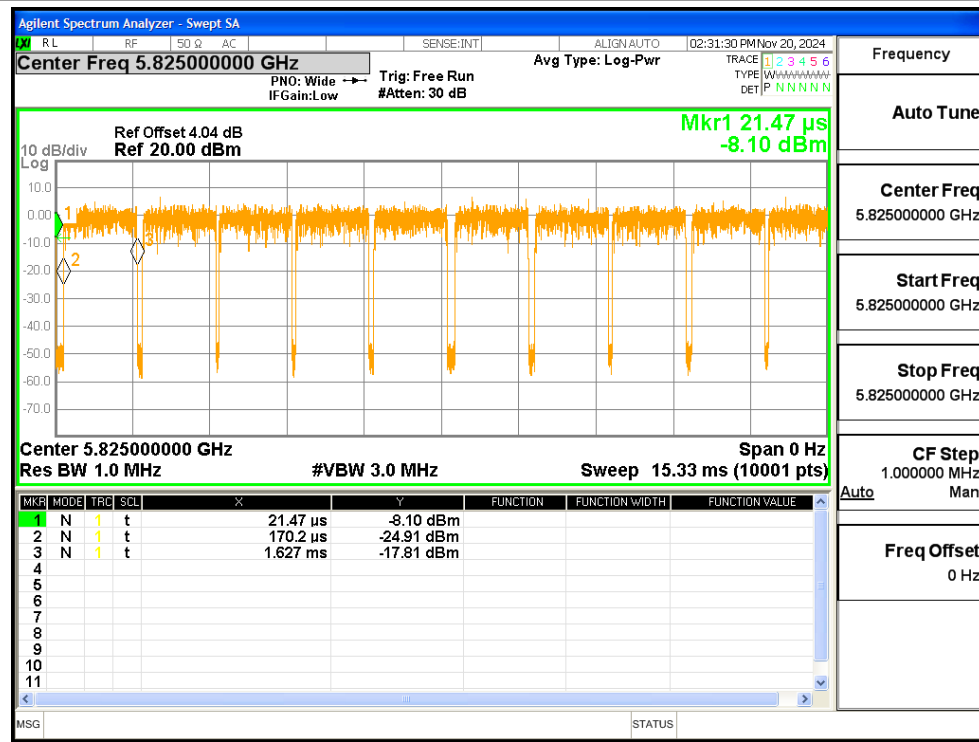
Duty Cycle NVNT ax20 5745MHz Ant1



Duty Cycle NVNT ax20 5785MHz Ant1



Duty Cycle NVNT ax20 5825MHz Ant1

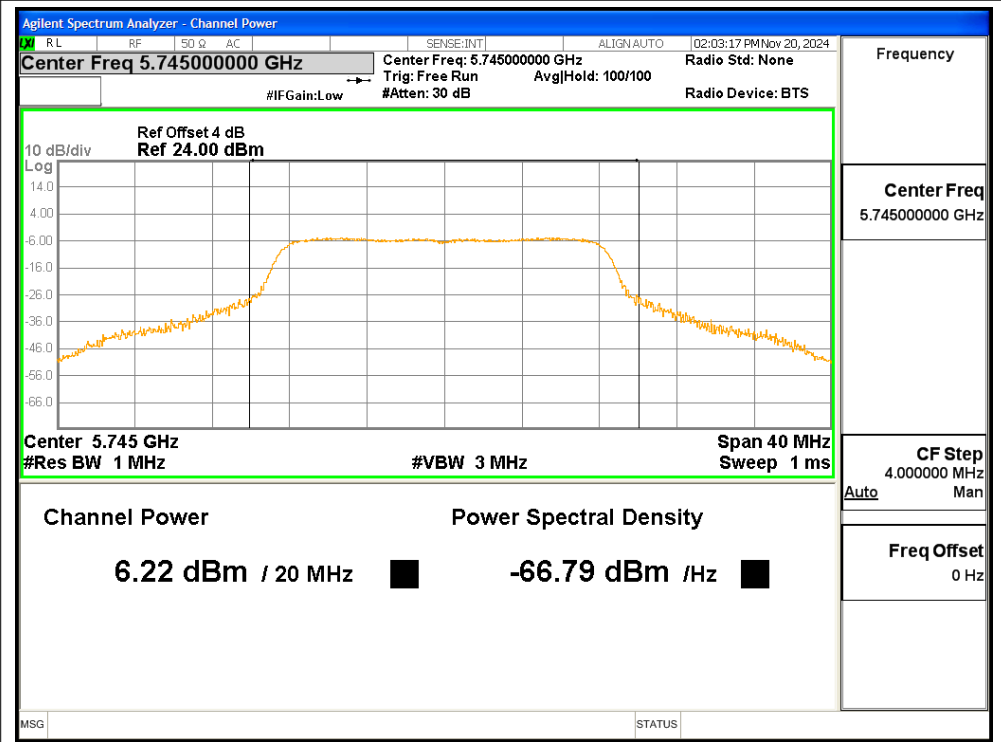


Maximum Conducted Output Power

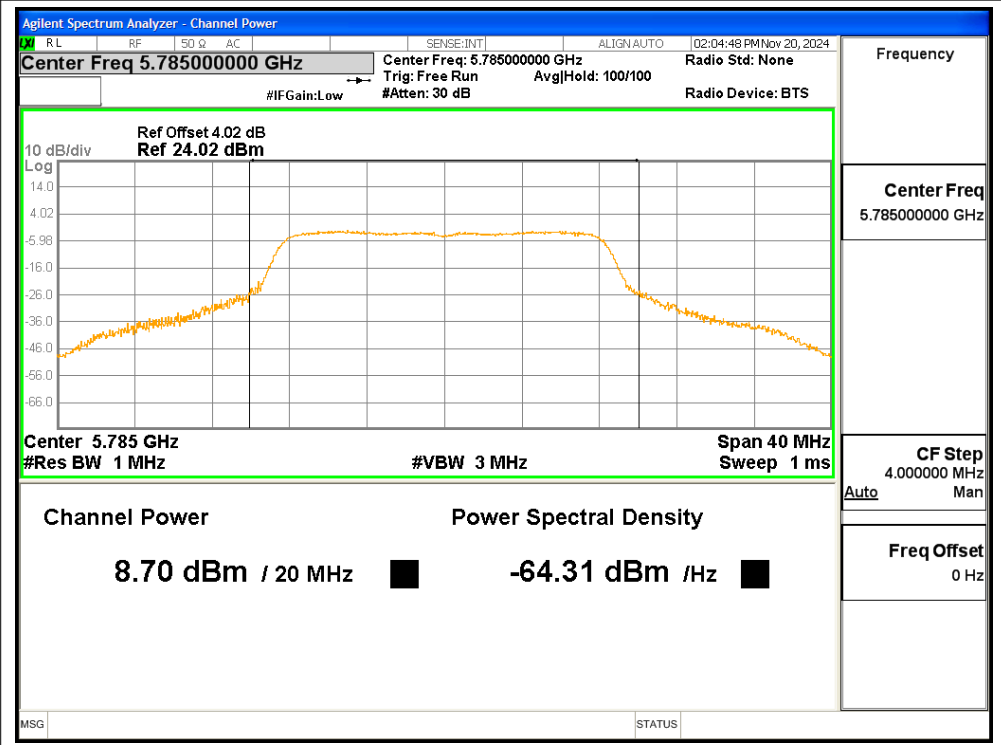
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.22	0.22	6.44	30	Pass
		5785		8.7	0.31	9.01	30	Pass
		5825		6.61	0.27	6.88	30	Pass
	n20	5745		8.23	0.2	8.43	30	Pass
		5785		8.61	0.19	8.8	30	Pass
		5825		8.66	0.27	8.93	30	Pass
	n40	5755		8.01	0.46	8.47	30	Pass
		5795		8.27	0.97	9.24	30	Pass
	ac20	5745		8.37	0.33	8.7	30	Pass
		5785		8.66	0.17	8.83	30	Pass
		5825		8.58	0.35	8.93	30	Pass
	ac40	5755		8.04	0.3	8.34	30	Pass
		5795		8.36	0.51	8.87	30	Pass
	ax20	5745		8.21	0.42	8.63	30	Pass
		5785		8.29	0.5	8.79	30	Pass
		5825		8.63	0.42	9.05	30	Pass
	ax40	5755		7.88	0.65	8.53	30	Pass
		5795		8.25	0.57	8.82	30	Pass

Test Graphs

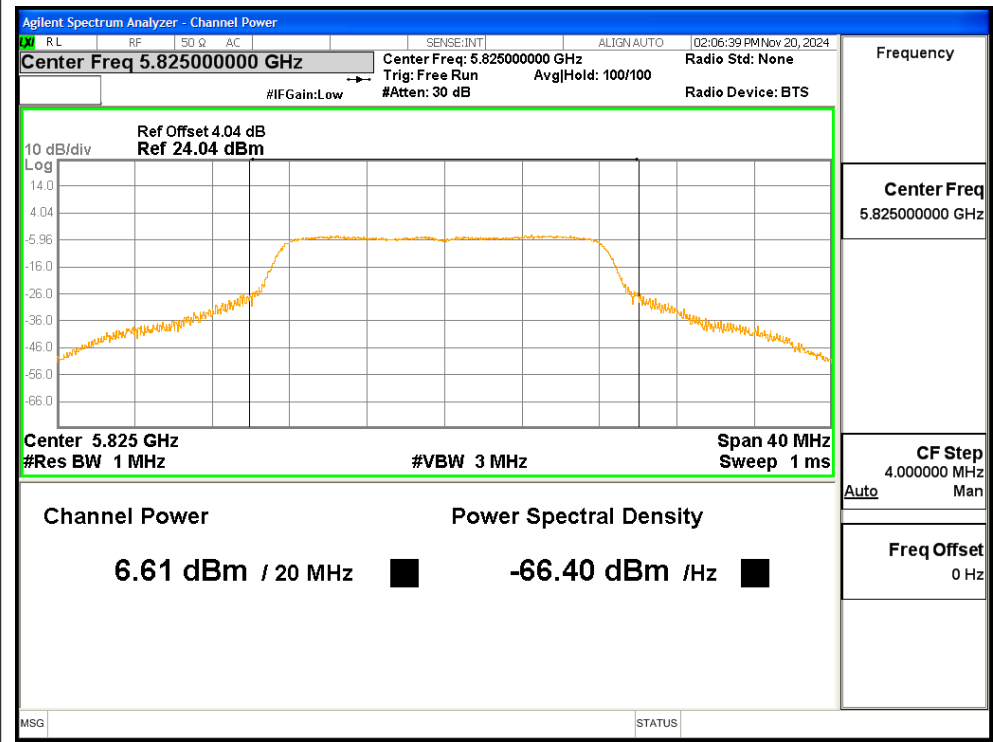
Power NVNT a 5745MHz Ant1



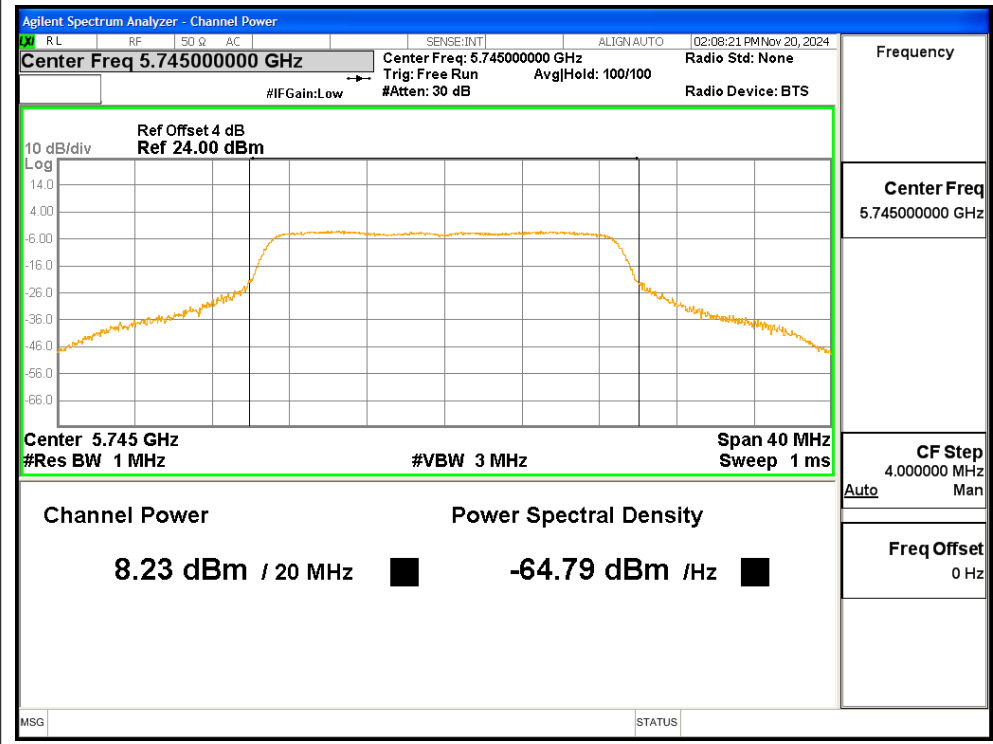
Power NVNT a 5785MHz Ant1



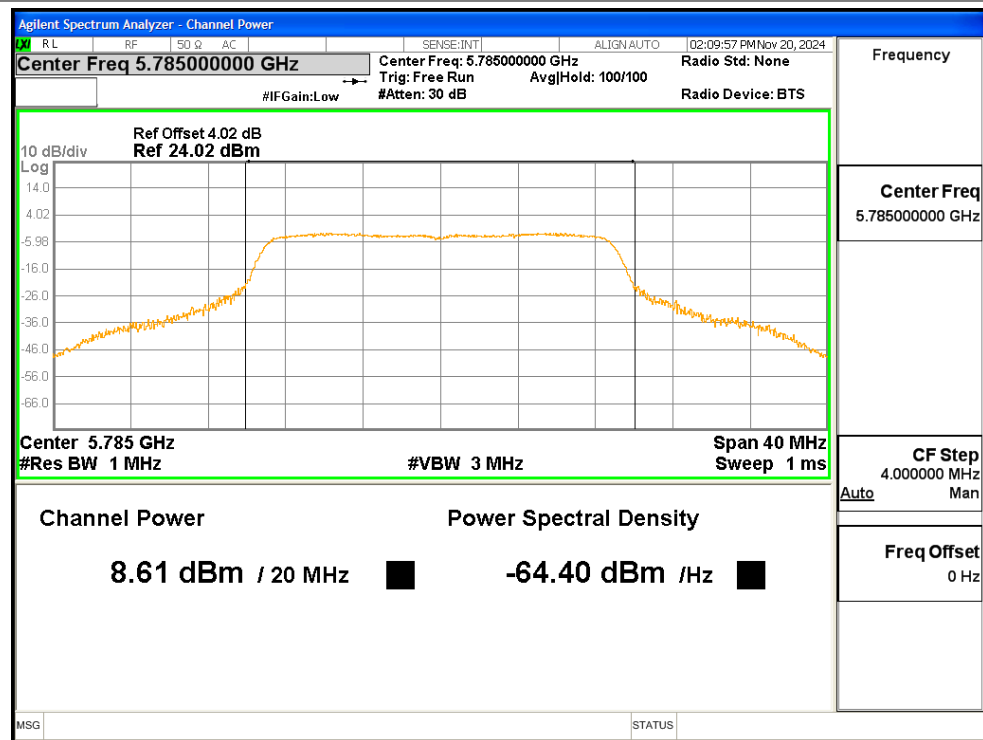
Power NVNT a 5825MHz Ant1



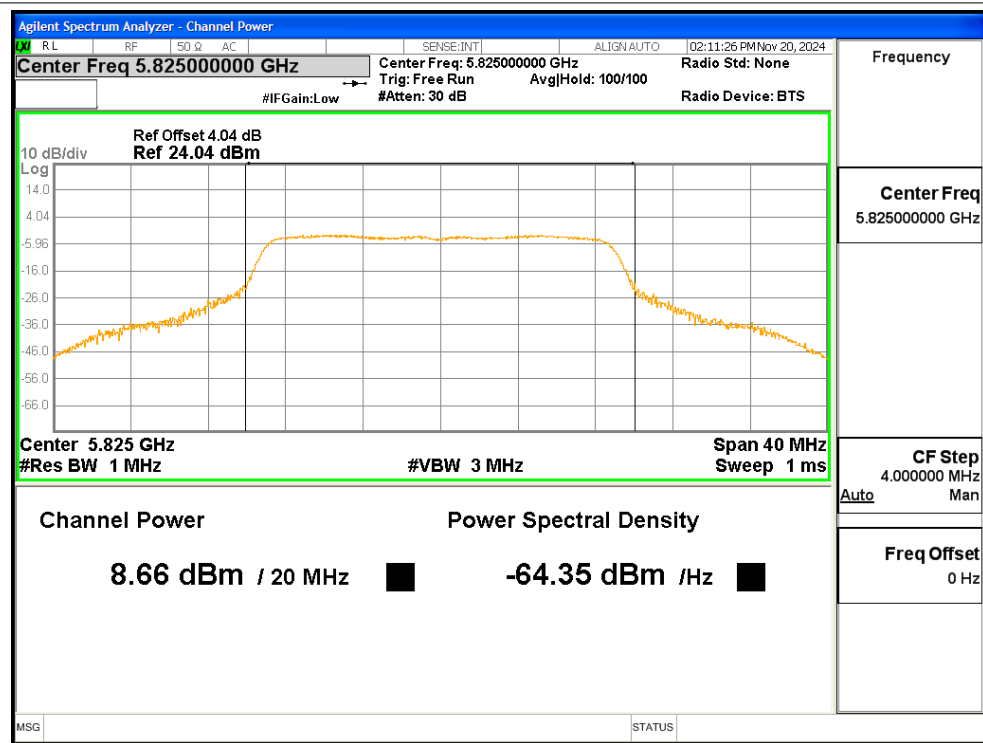
Power NVNT n20 5745MHz Ant1



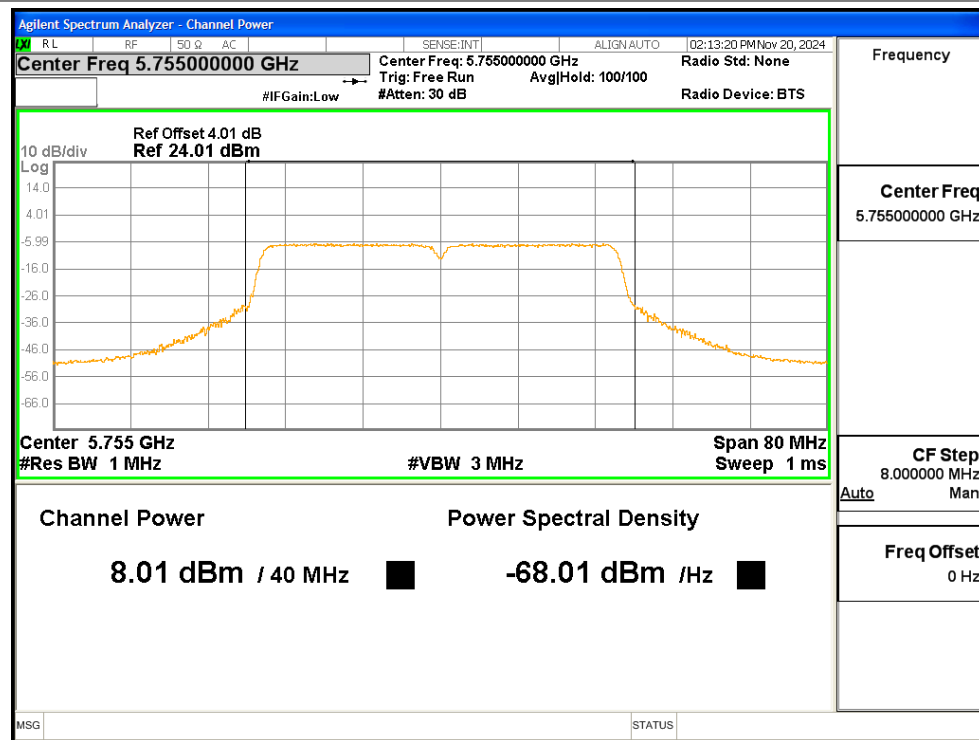
Power NVNT n20 5785MHz Ant1



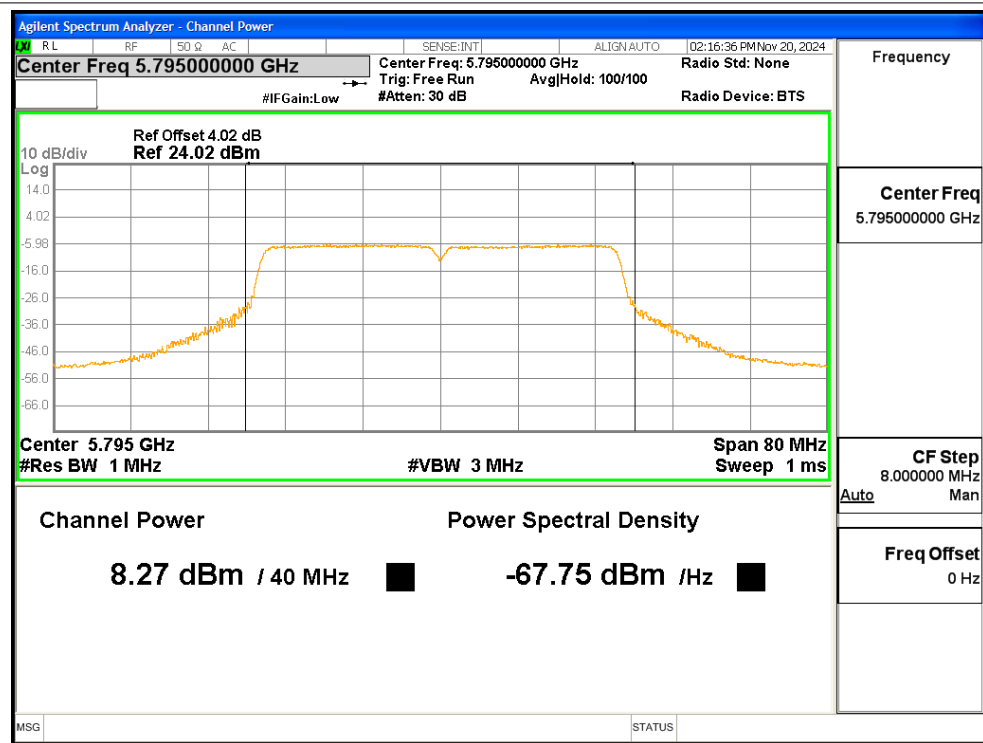
Power NVNT n20 5825MHz Ant1



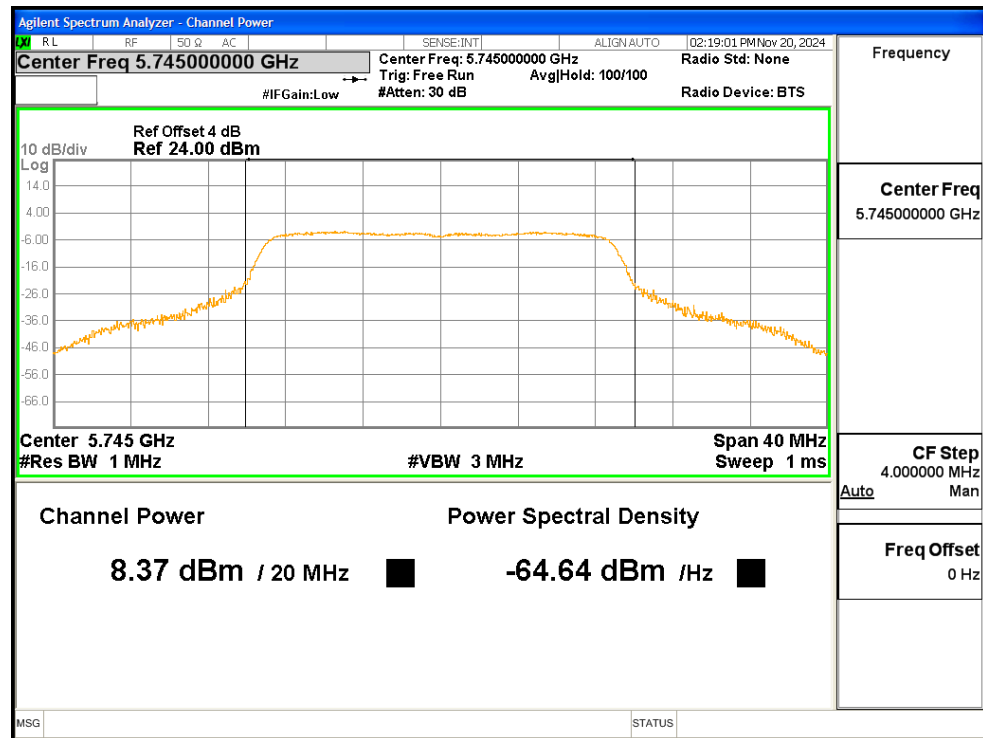
Power NVNT n40 5755MHz Ant1



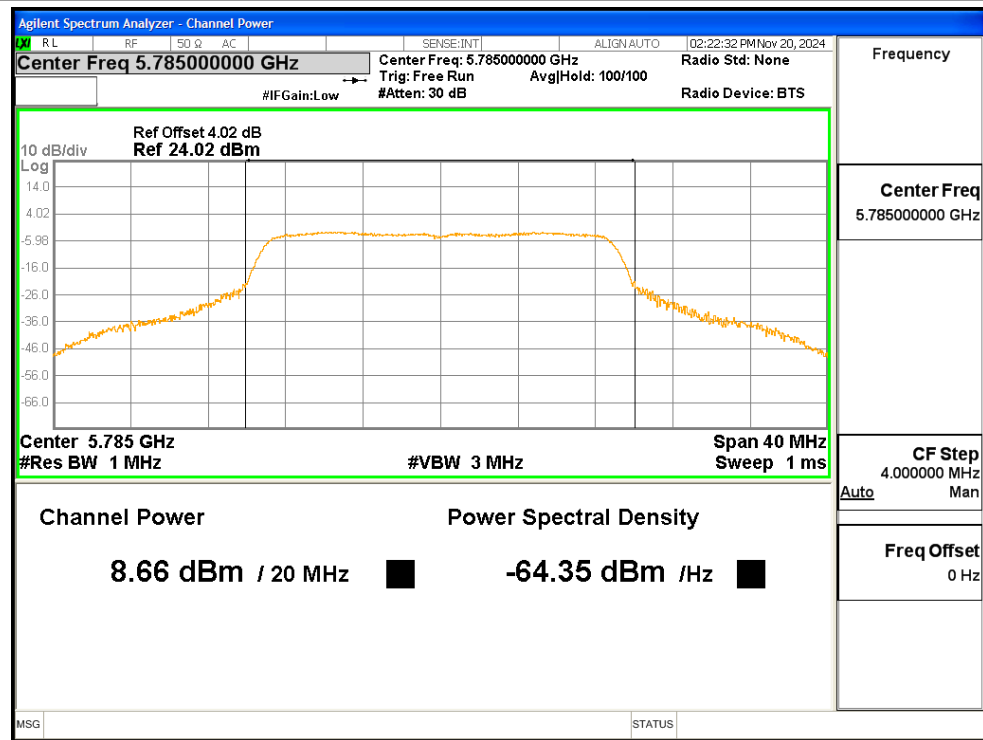
Power NVNT n40 5795MHz Ant1



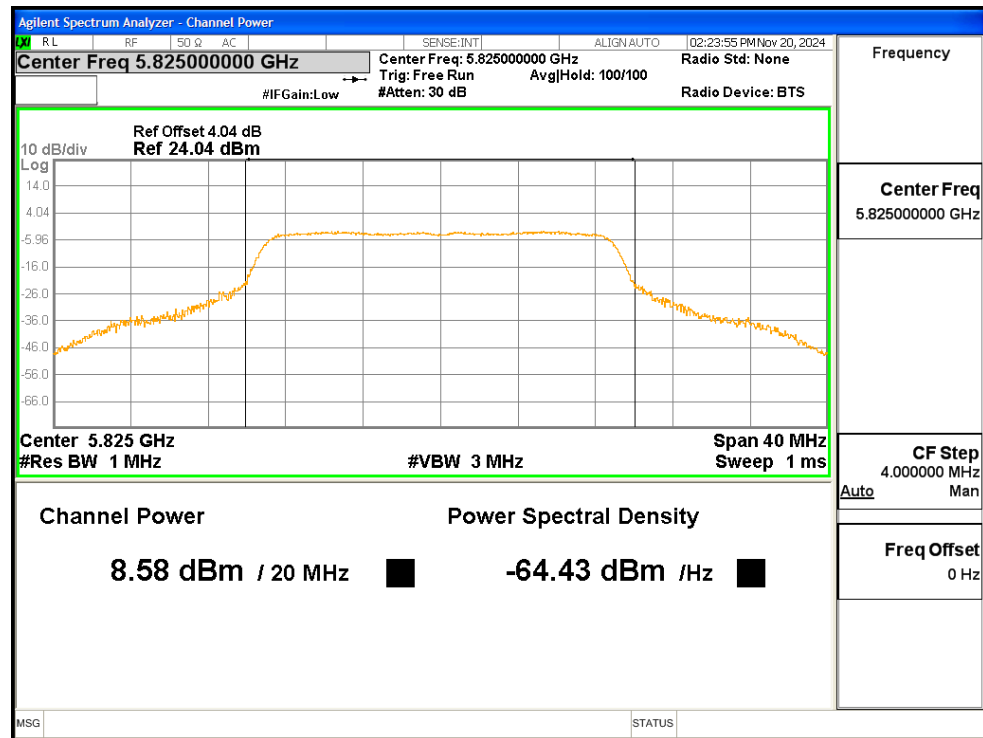
Power NVNT ac20 5745MHz Ant1



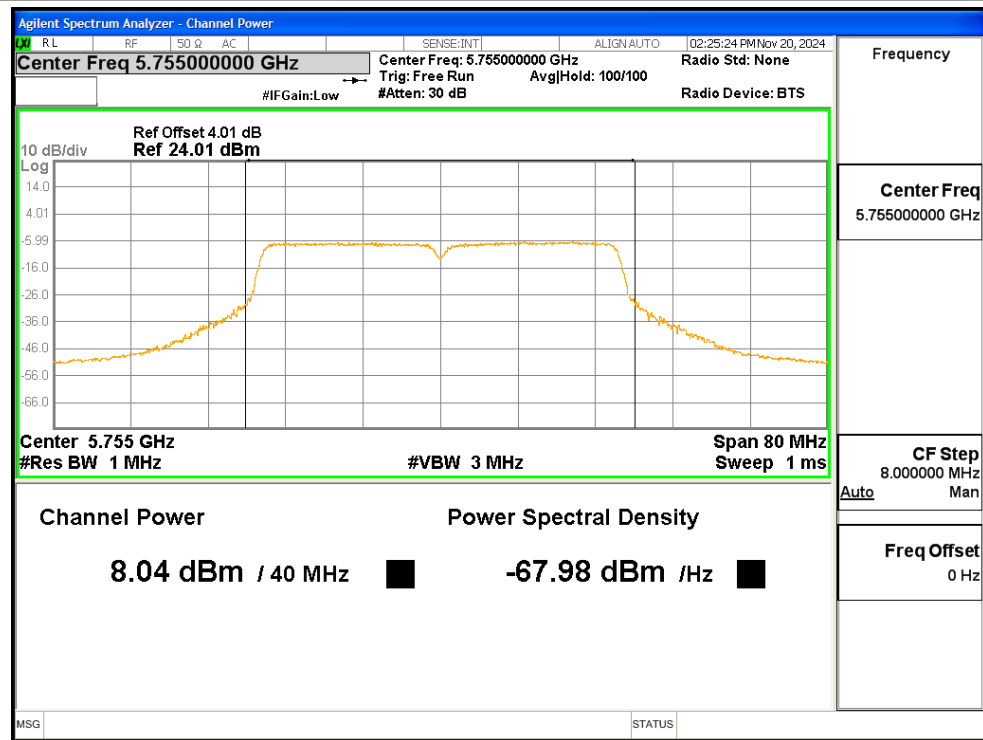
Power NVNT ac20 5785MHz Ant1



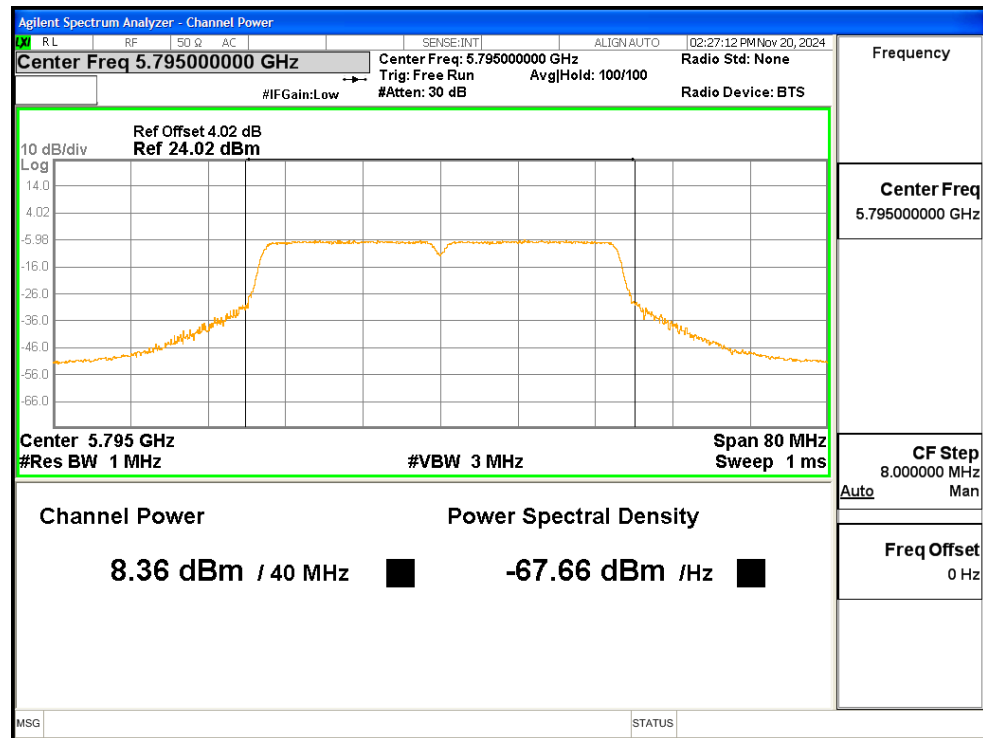
Power NVNT ac20 5825MHz Ant1



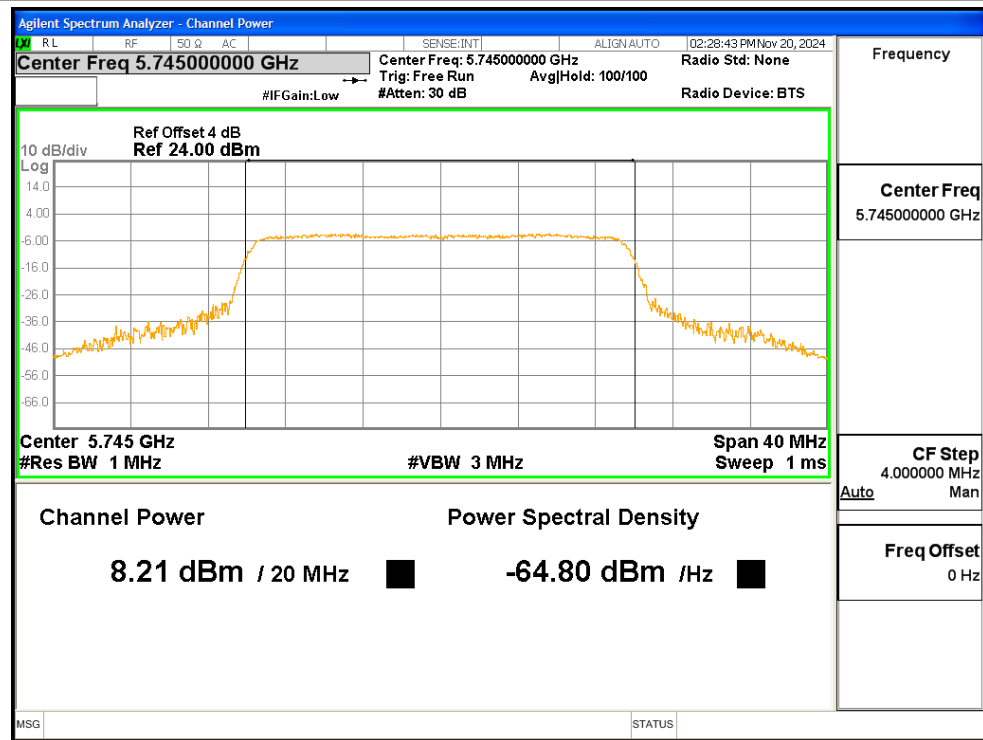
Power NVNT ac40 5755MHz Ant1



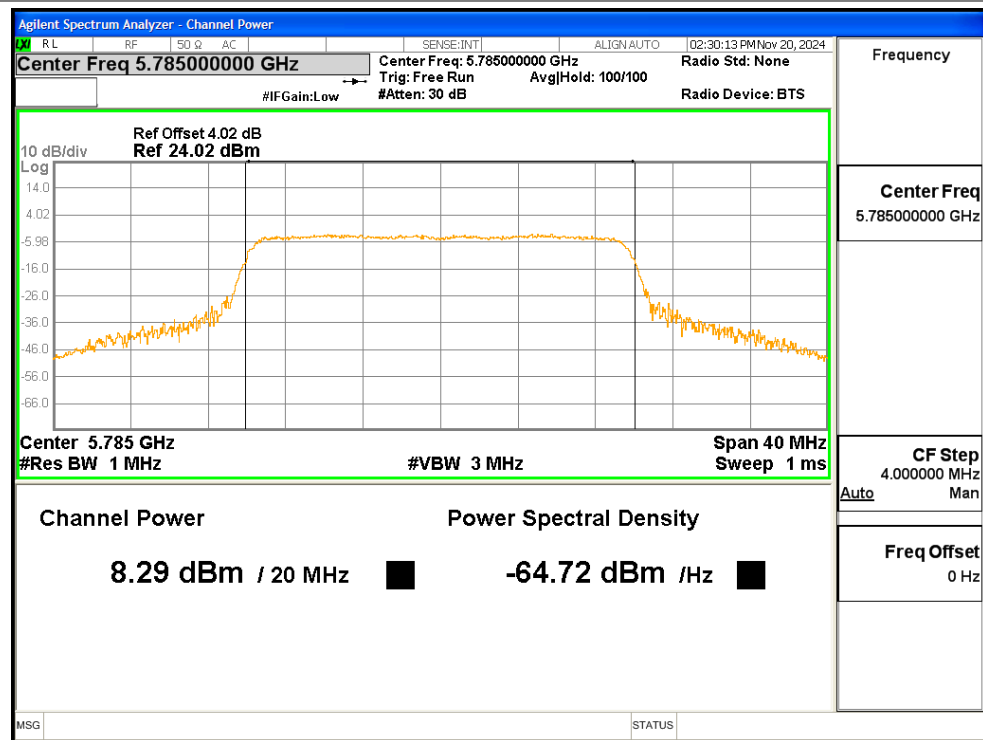
Power NVNT ac40 5795MHz Ant1



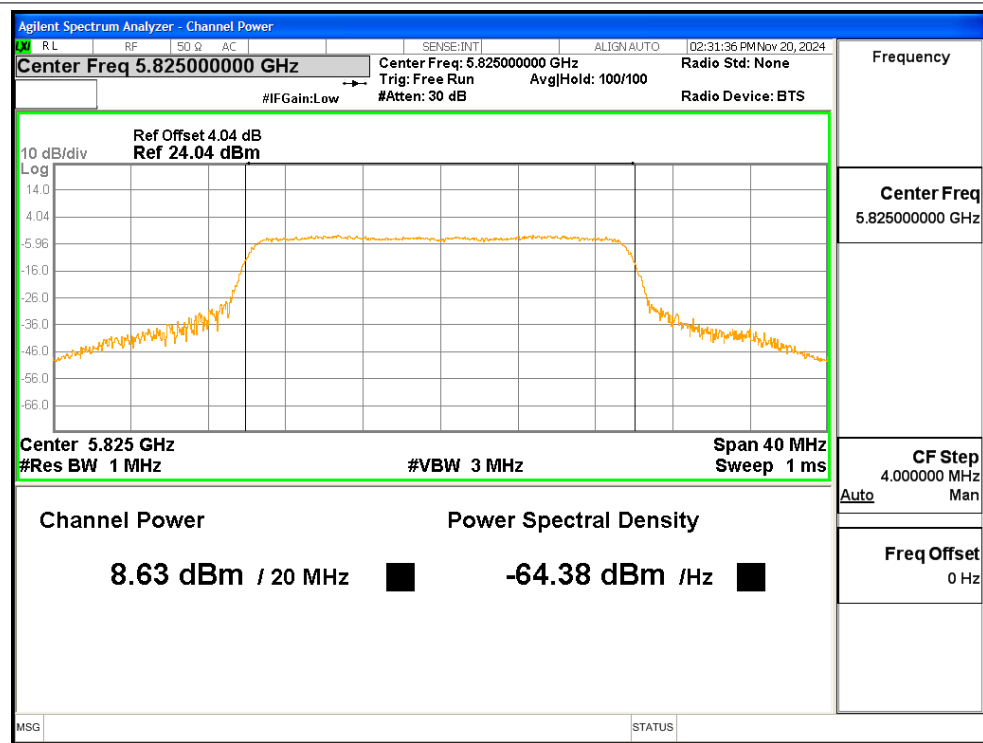
Power NVNT ax20 5745MHz Ant1



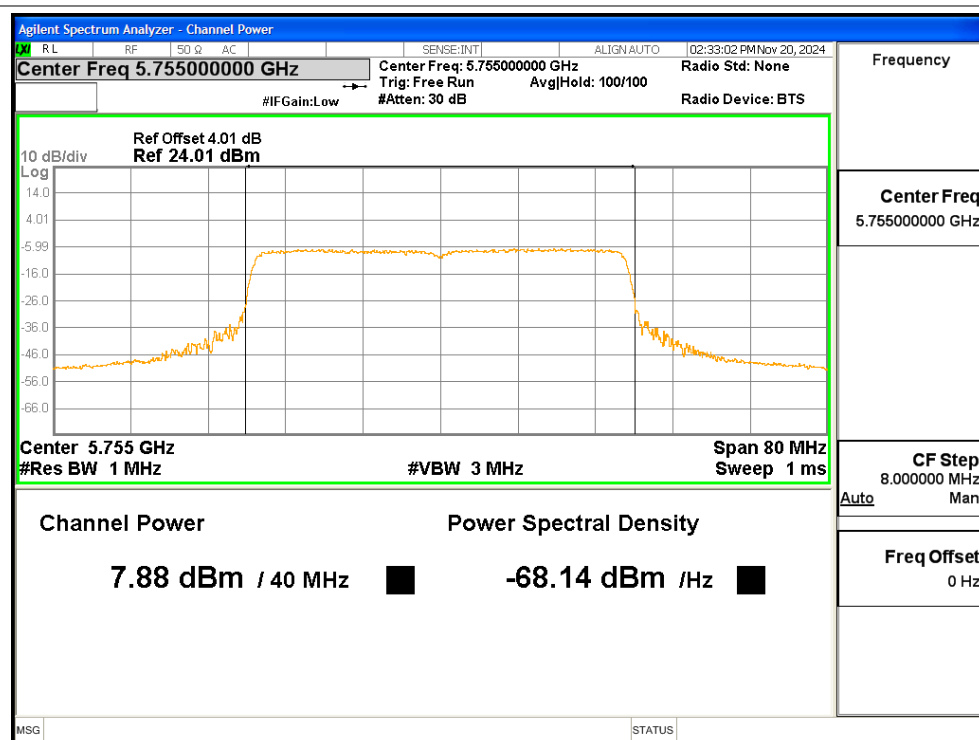
Power NVNT ax20 5785MHz Ant1



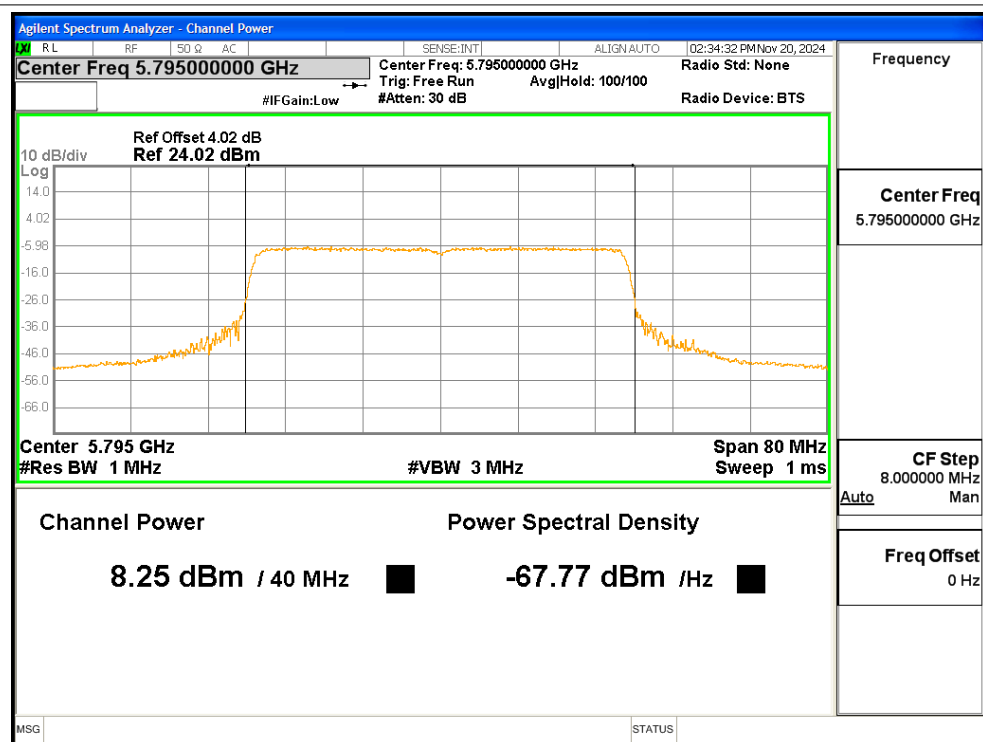
Power NVNT ax20 5825MHz Ant1



Power NVNT ax40 5755MHz Ant1



Power NVNT ax40 5795MHz Ant1

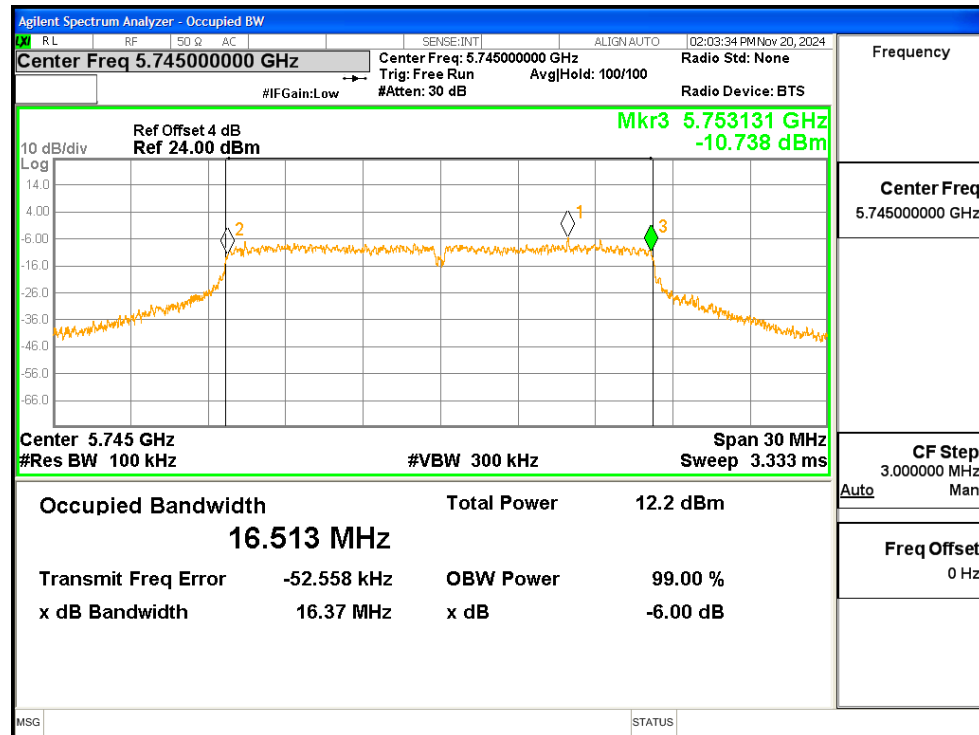


-6dB Bandwidth

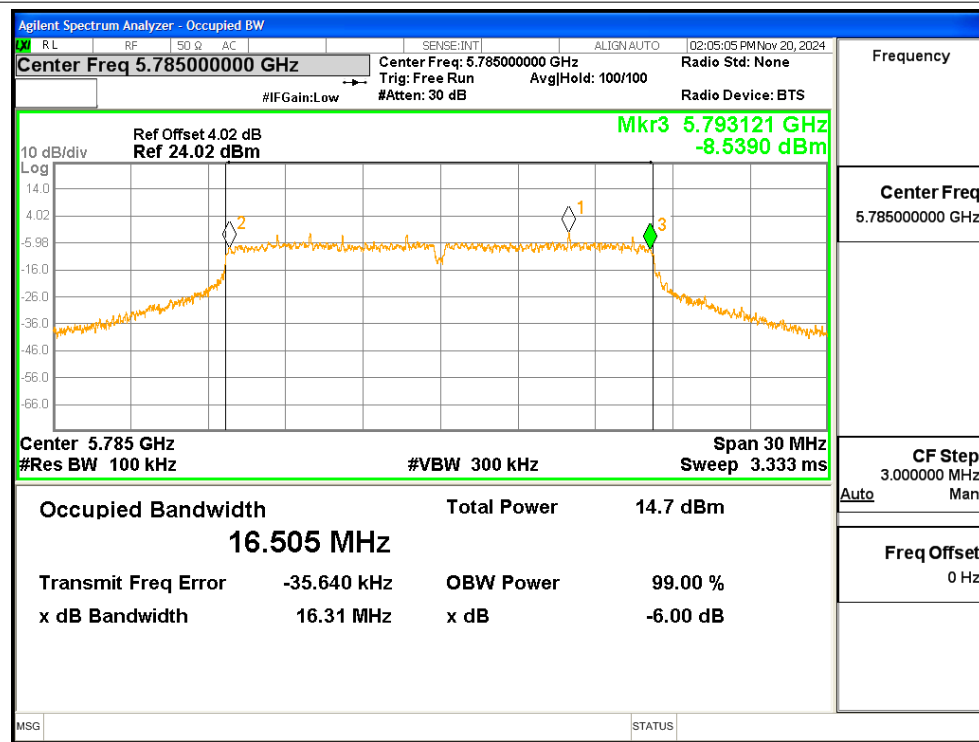
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.368	0.5	Pass
		5785		16.313	0.5	Pass
		5825		16.335	0.5	Pass
	n20	5745		17.565	0.5	Pass
		5785		17.584	0.5	Pass
		5825		17.591	0.5	Pass
	n40	5755		36.334	0.5	Pass
		5795		36.32	0.5	Pass
	ac20	5745		17.579	0.5	Pass
		5785		17.59	0.5	Pass
		5825		17.58	0.5	Pass
	ac40	5755		36.331	0.5	Pass
		5795		36.323	0.5	Pass
	ax20	5745		18.948	0.5	Pass
		5785		18.964	0.5	Pass
		5825		18.876	0.5	Pass
	ax40	5755		37.952	0.5	Pass
		5795		37.885	0.5	Pass

Test Graphs

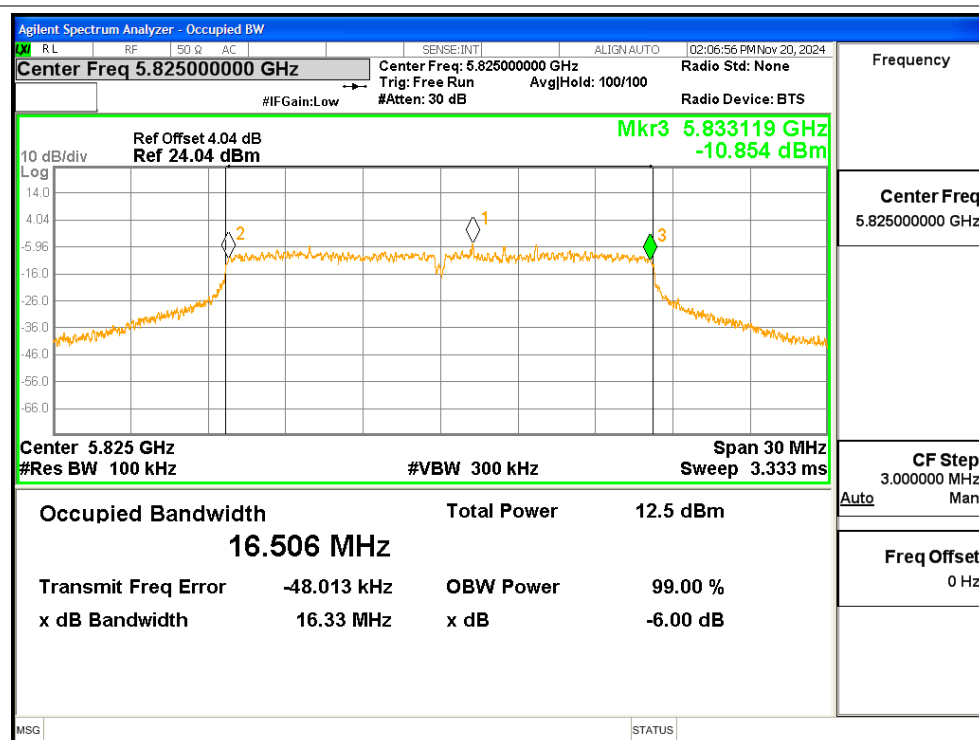
-6dB Bandwidth NVNT a 5745MHz Ant1



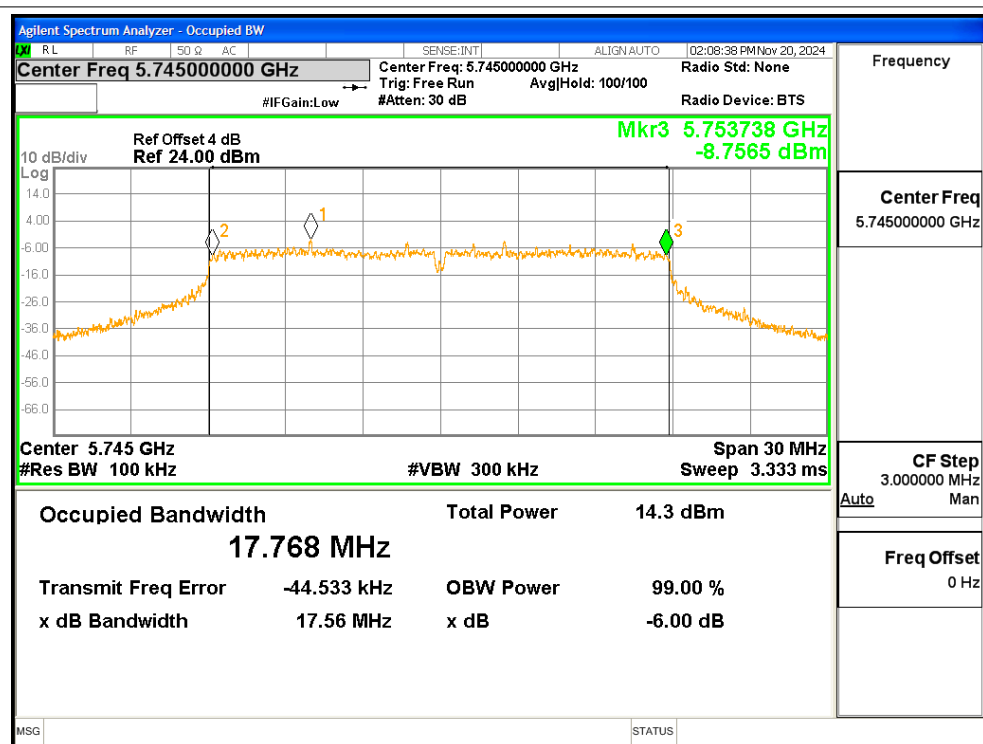
-6dB Bandwidth NVNT a 5785MHz Ant1



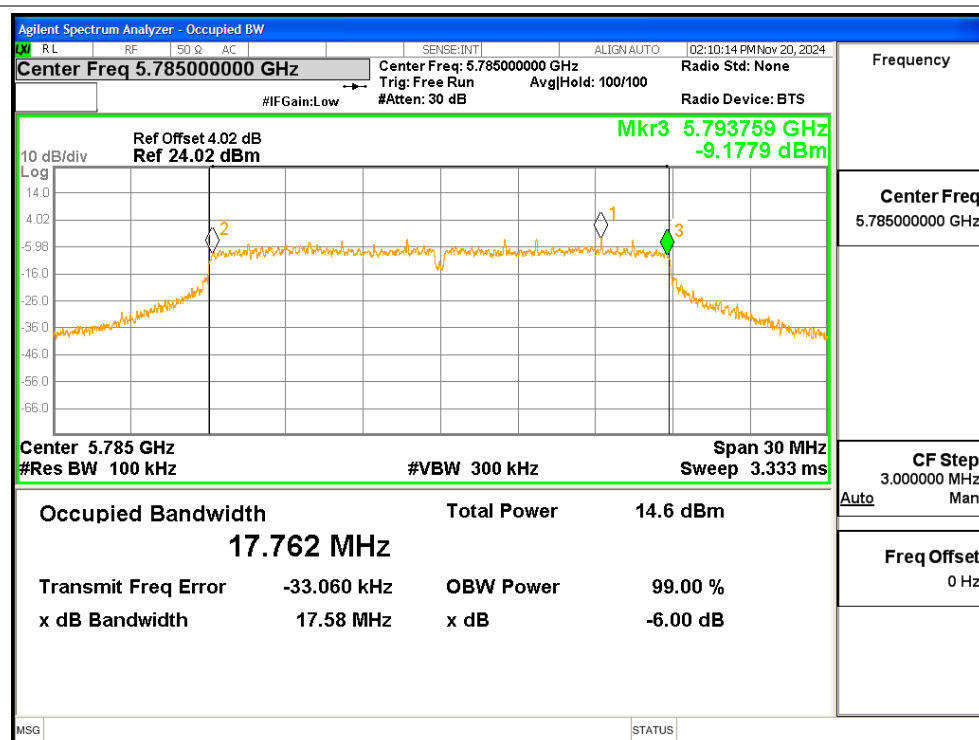
-6dB Bandwidth NVNT a 5825MHz Ant1



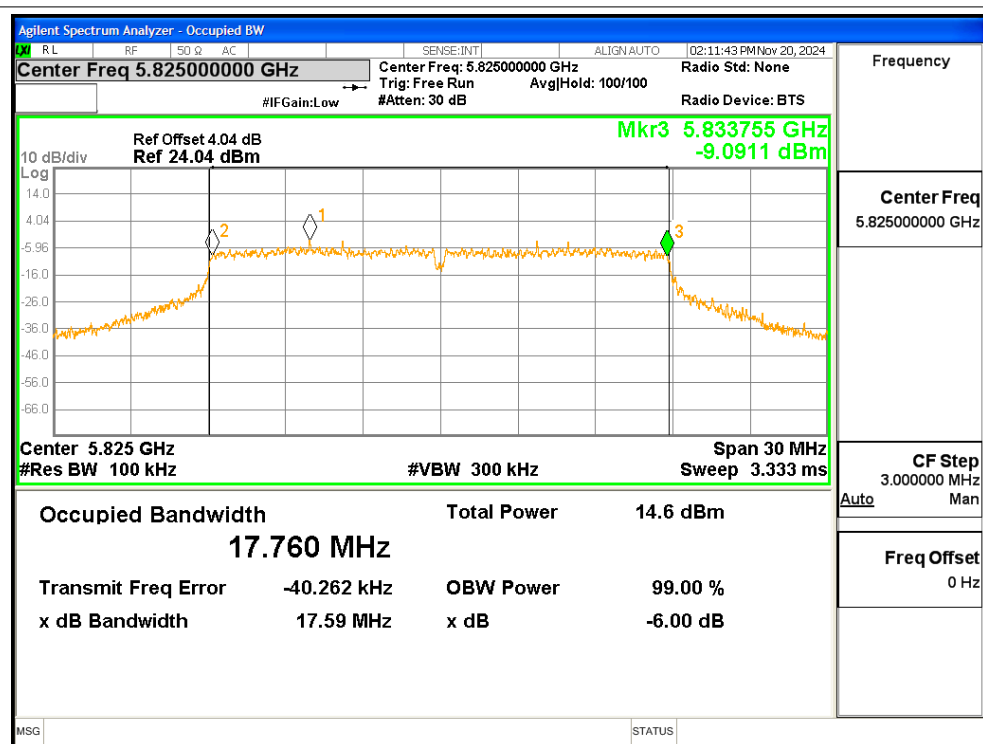
-6dB Bandwidth NVNT n20 5745MHz Ant1



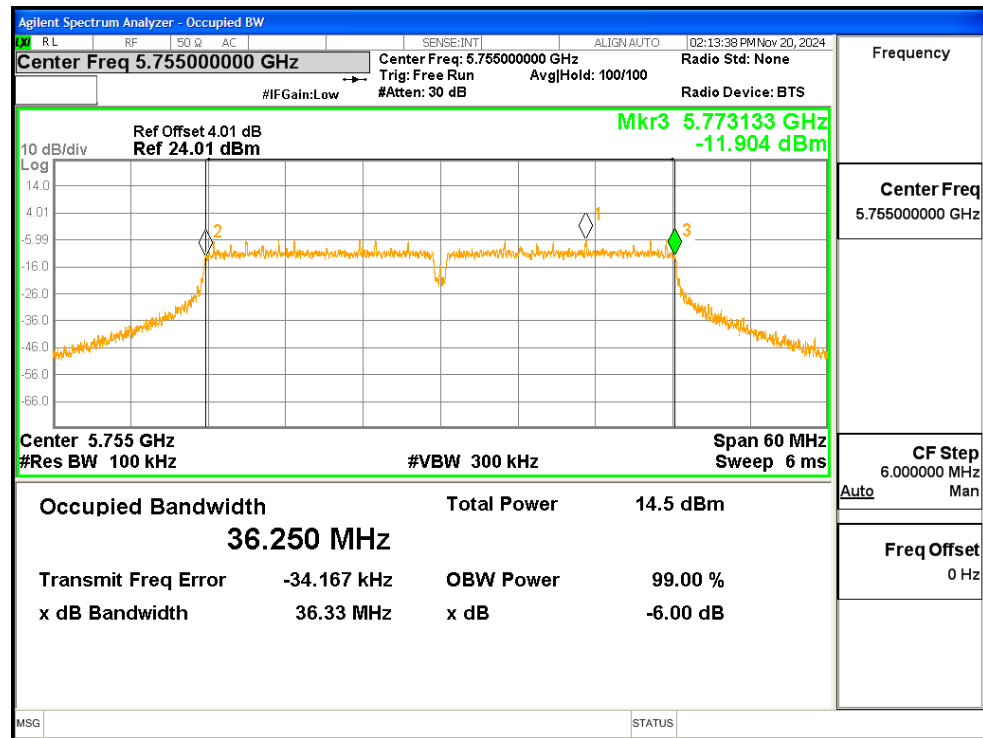
-6dB Bandwidth NVNT n20 5785MHz Ant1



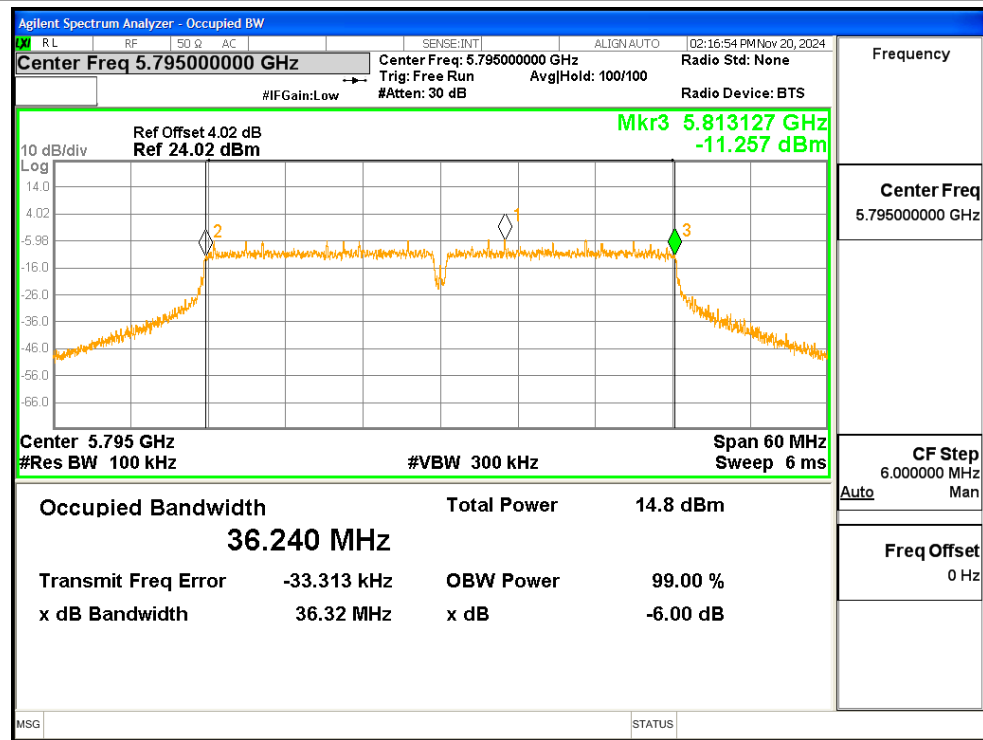
-6dB Bandwidth NVNT n20 5825MHz Ant1



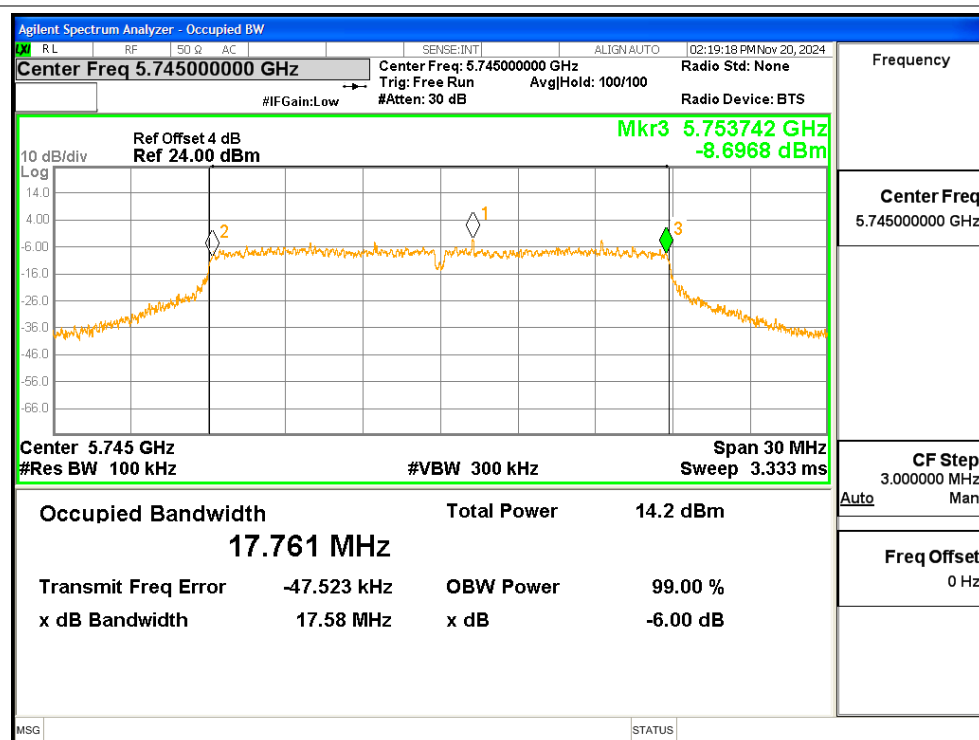
-6dB Bandwidth NVNT n40 5755MHz Ant1



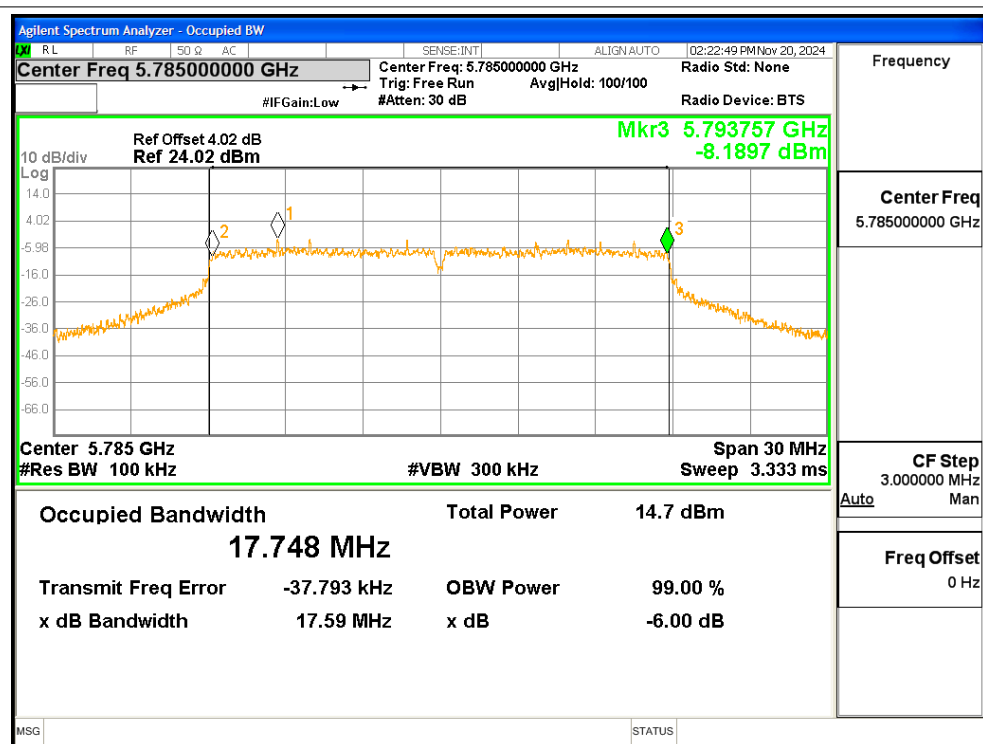
-6dB Bandwidth NVNT n40 5795MHz Ant1



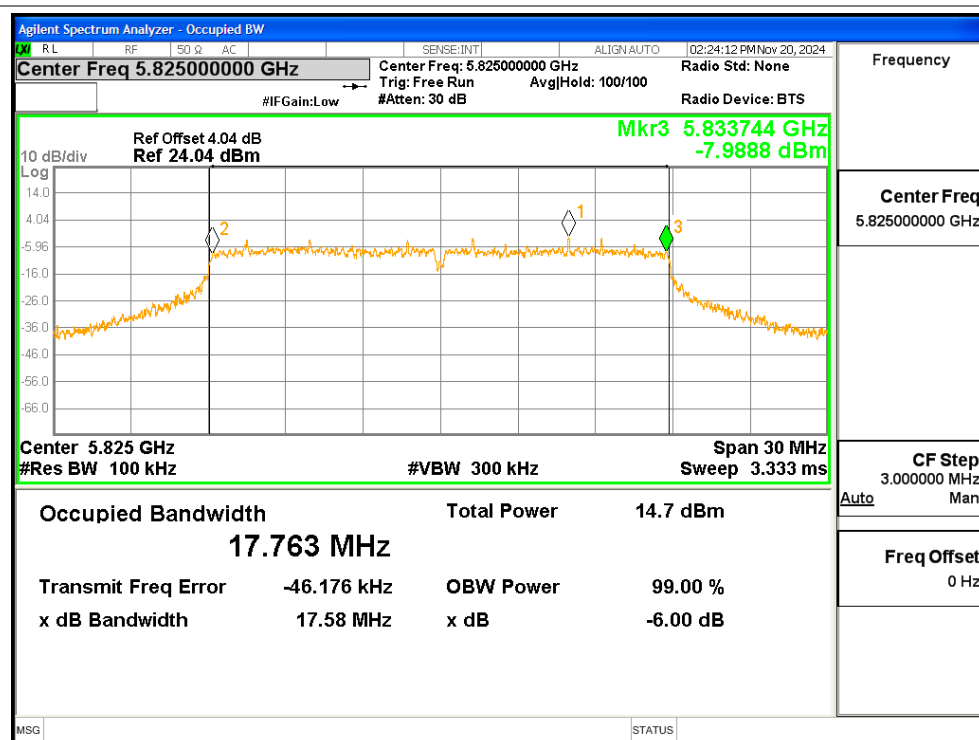
-6dB Bandwidth NVNT ac20 5745MHz Ant1



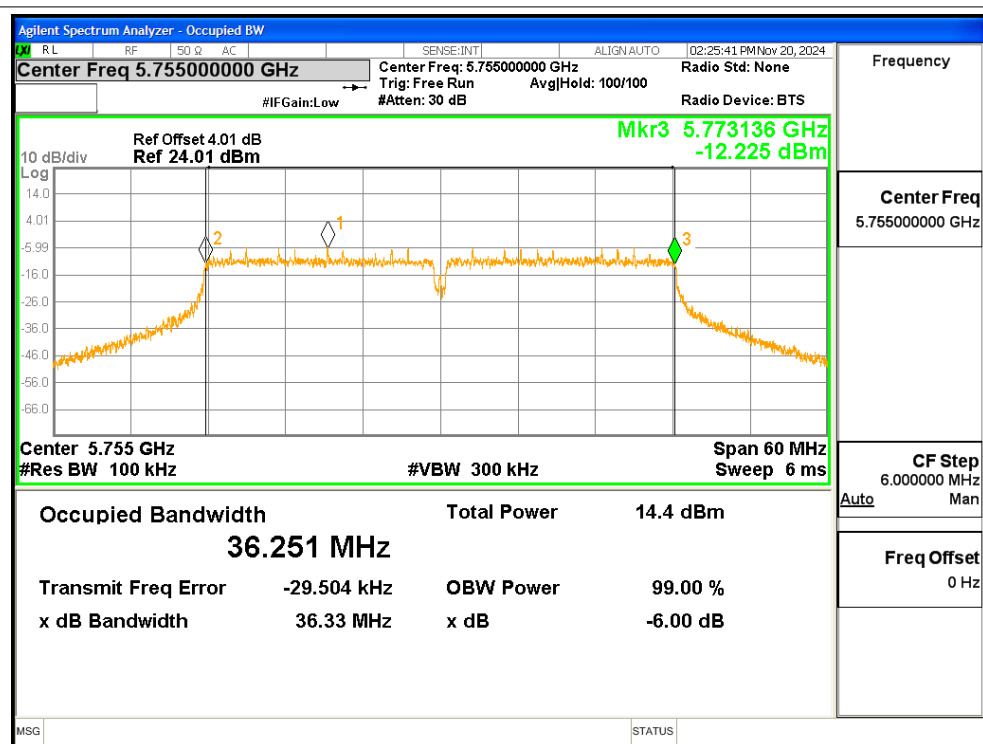
-6dB Bandwidth NVNT ac20 5785MHz Ant1



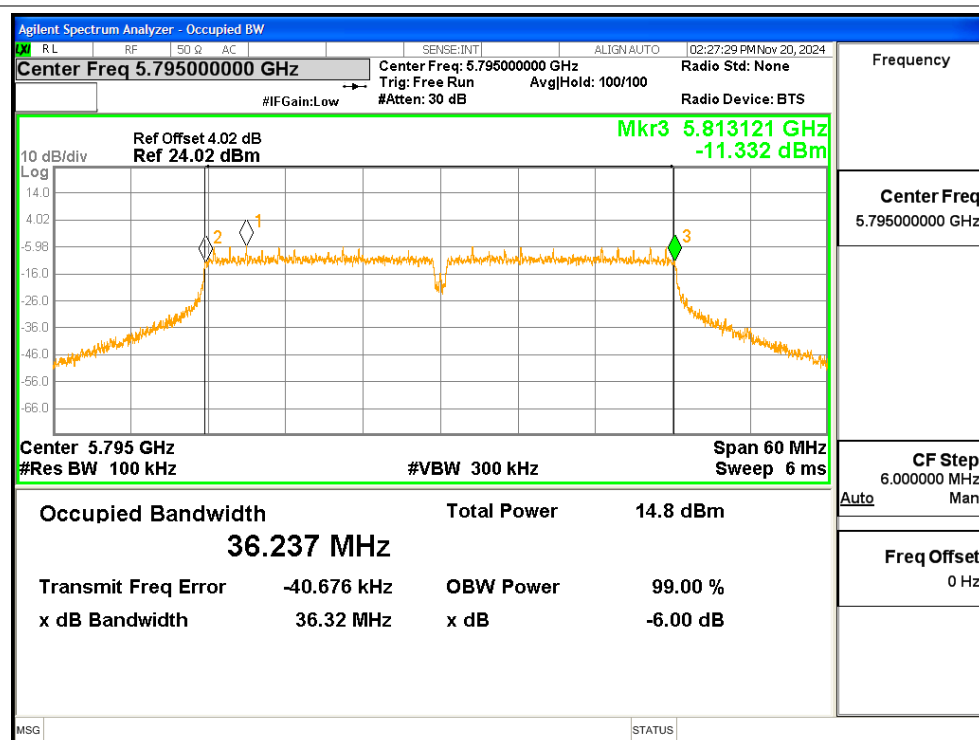
-6dB Bandwidth NVNT ac20 5825MHz Ant1



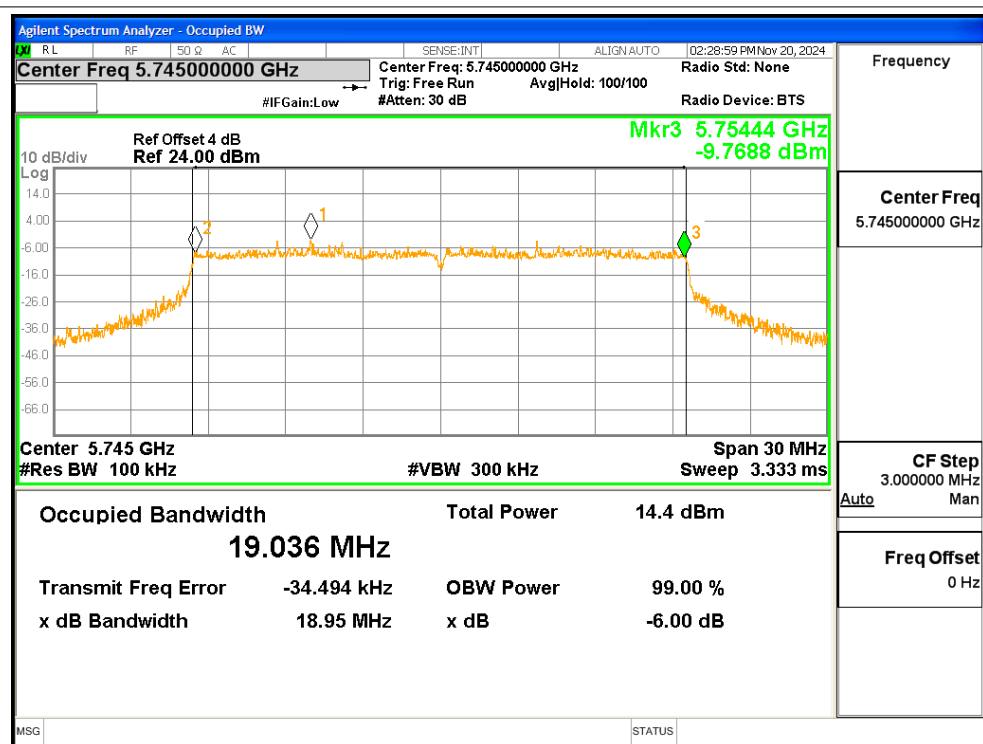
-6dB Bandwidth NVNT ac40 5755MHz Ant1



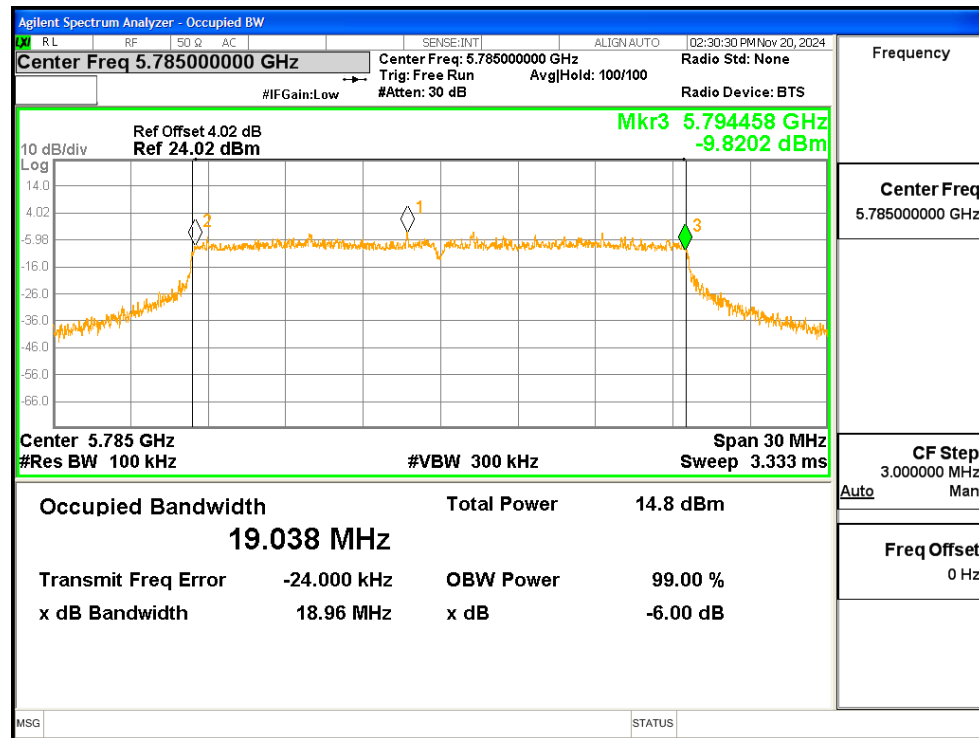
-6dB Bandwidth NVNT ac40 5795MHz Ant1



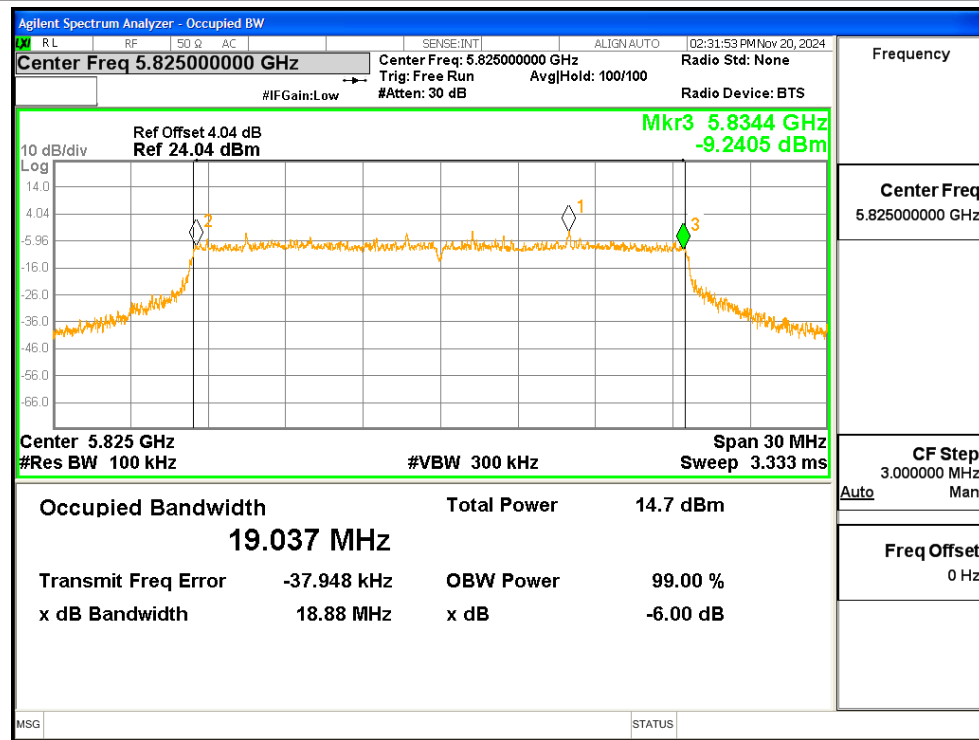
-6dB Bandwidth NVNT ax20 5745MHz Ant1



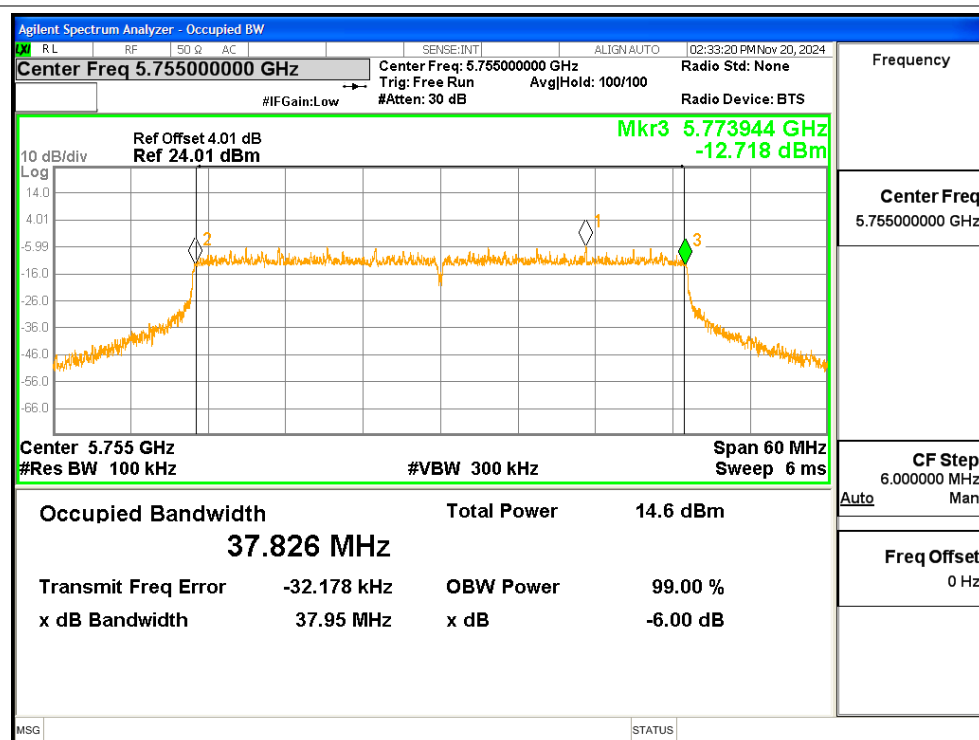
-6dB Bandwidth NVNT ax20 5785MHz Ant1



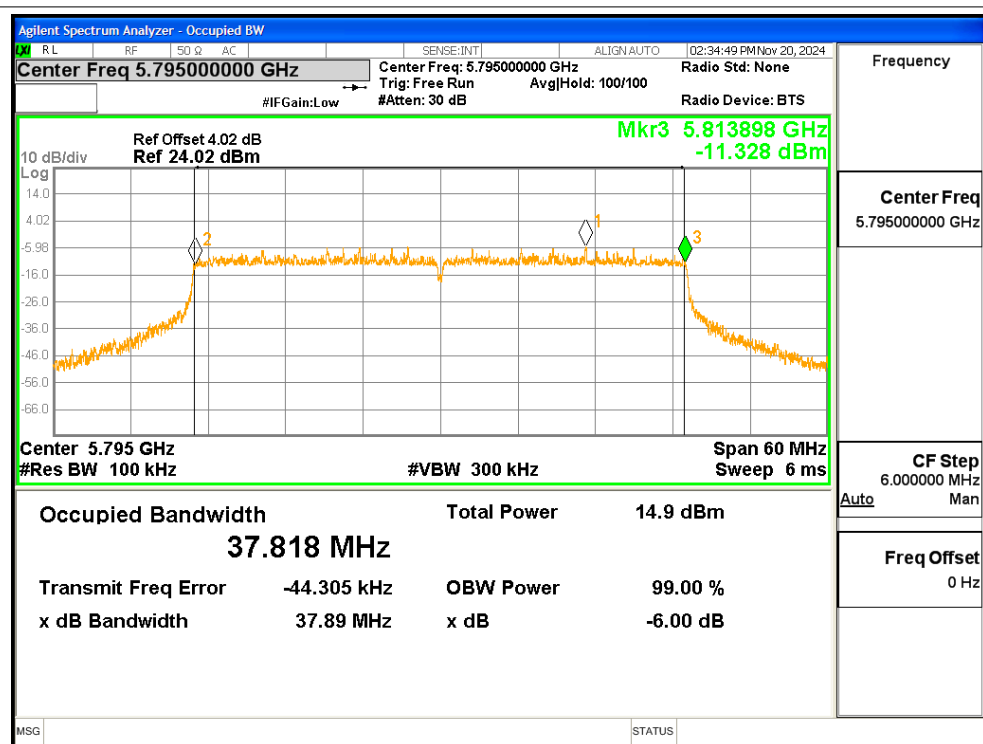
-6dB Bandwidth NVNT ax20 5825MHz Ant1



-6dB Bandwidth NVNT ax40 5755MHz Ant1



-6dB Bandwidth NVNT ax40 5795MHz Ant1

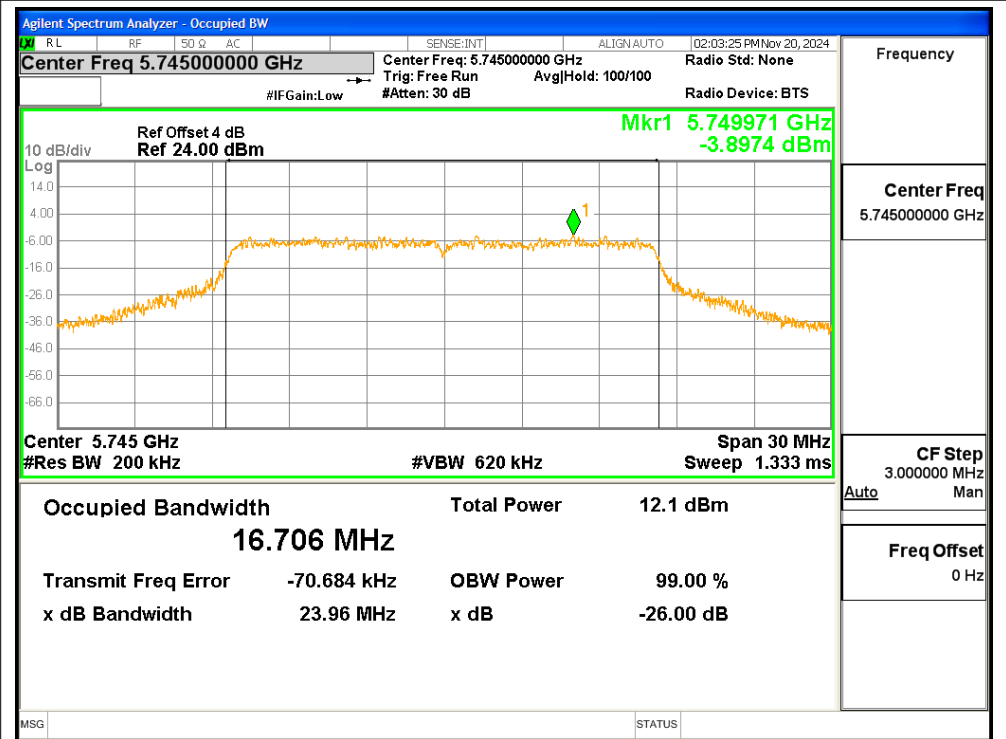


Occupied Channel Bandwidth

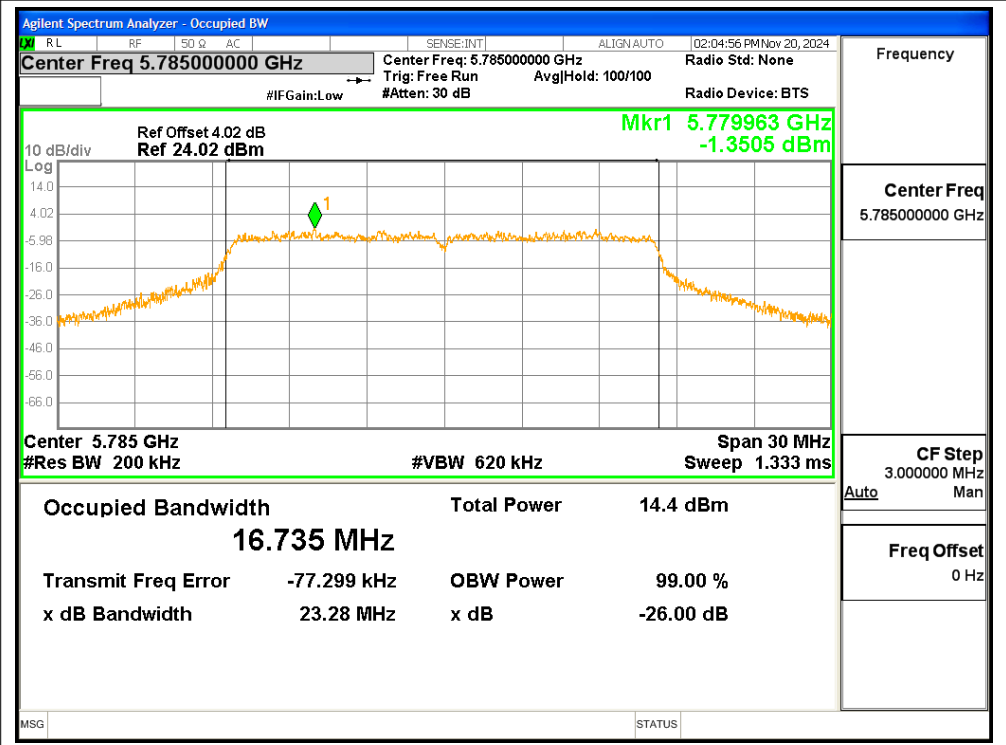
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.706
		5785		16.735
		5825		16.708
	n20	5745		17.954
		5785		17.976
		5825		17.952
	n40	5755		36.59
		5795		36.573
	ac20	5745		17.943
		5785		17.981
		5825		17.934
	ac40	5755		36.552
		5795		36.541
	ax20	5745		19.115
		5785		19.134
		5825		19.102
	ax40	5755		38.054
		5795		37.964

Test Graphs

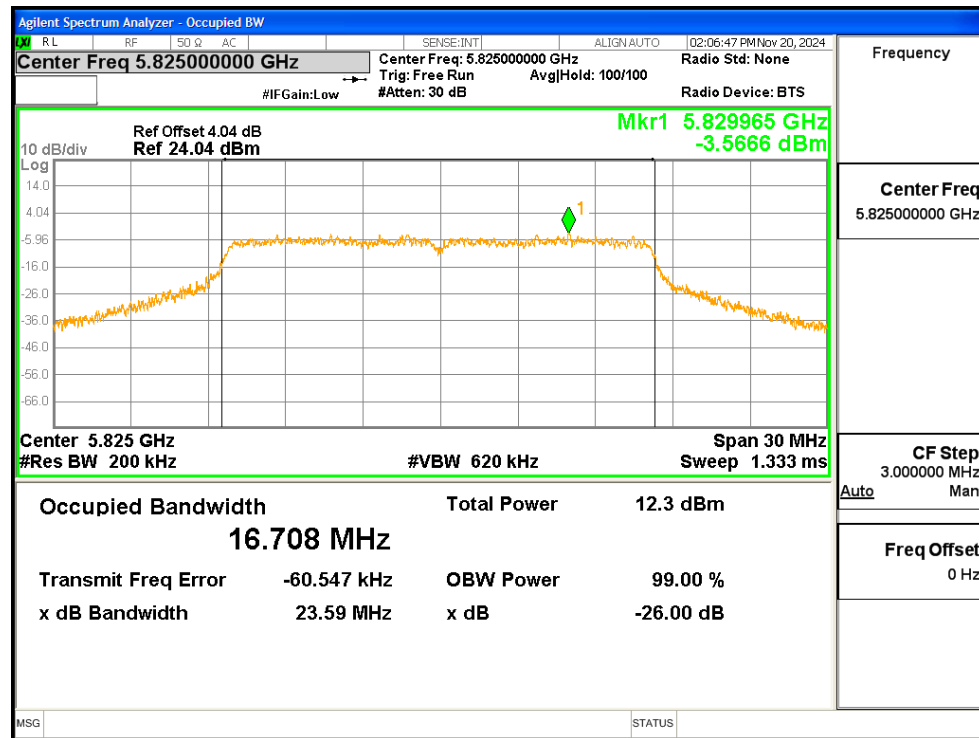
OBW NVNT a 5745MHz Ant1



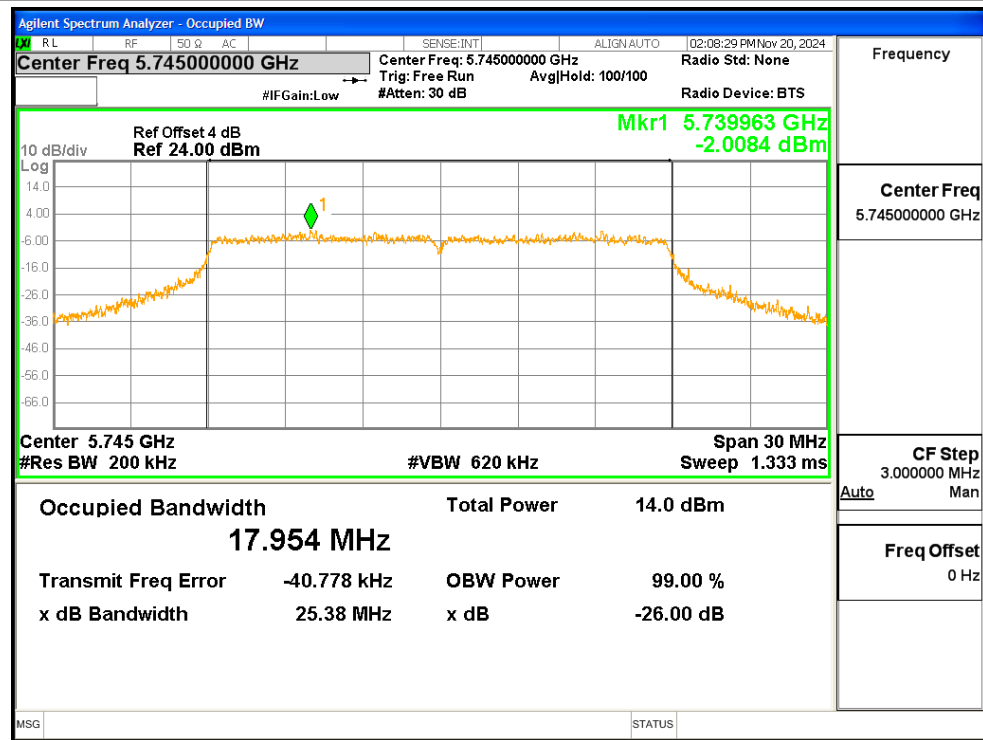
OBW NVNT a 5785MHz Ant1



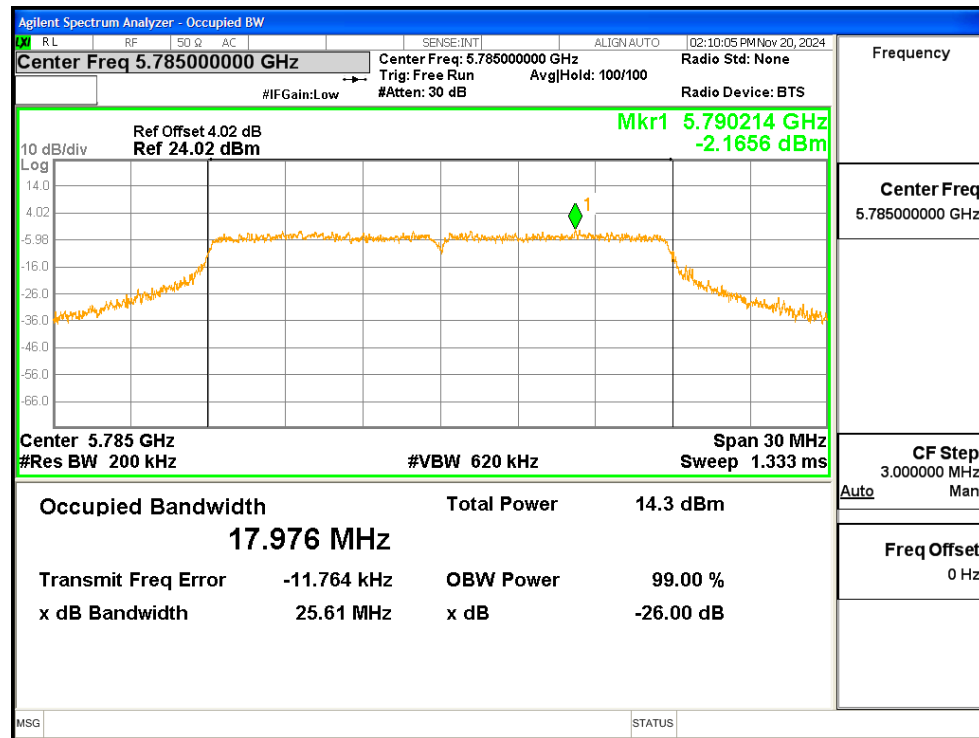
OBW NVNT a 5825MHz Ant1



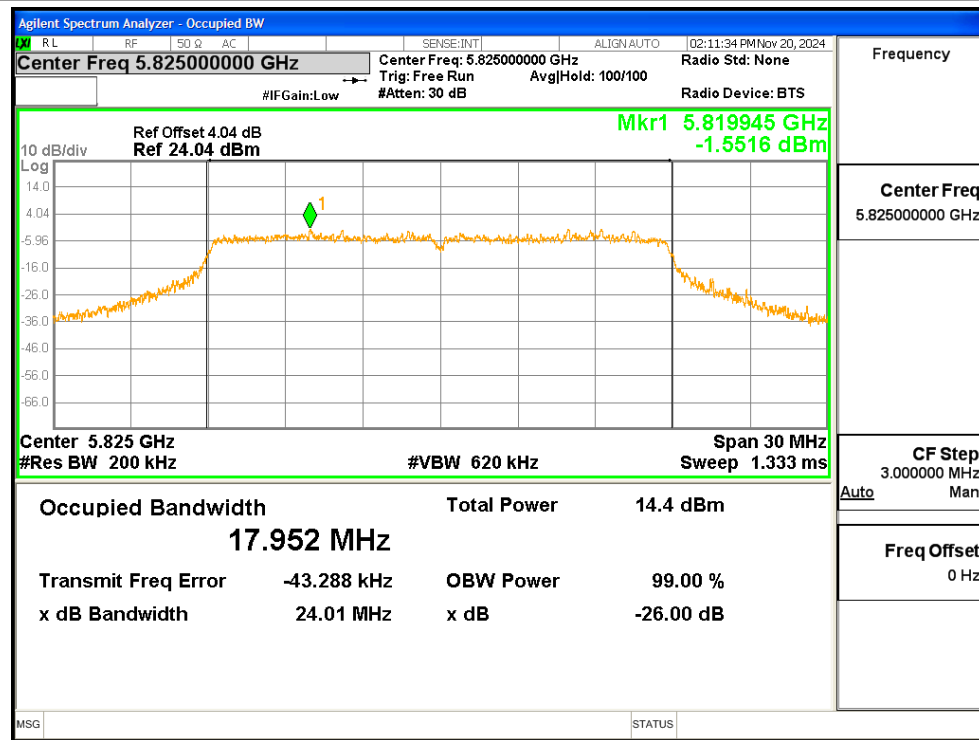
OBW NVNT n20 5745MHz Ant1



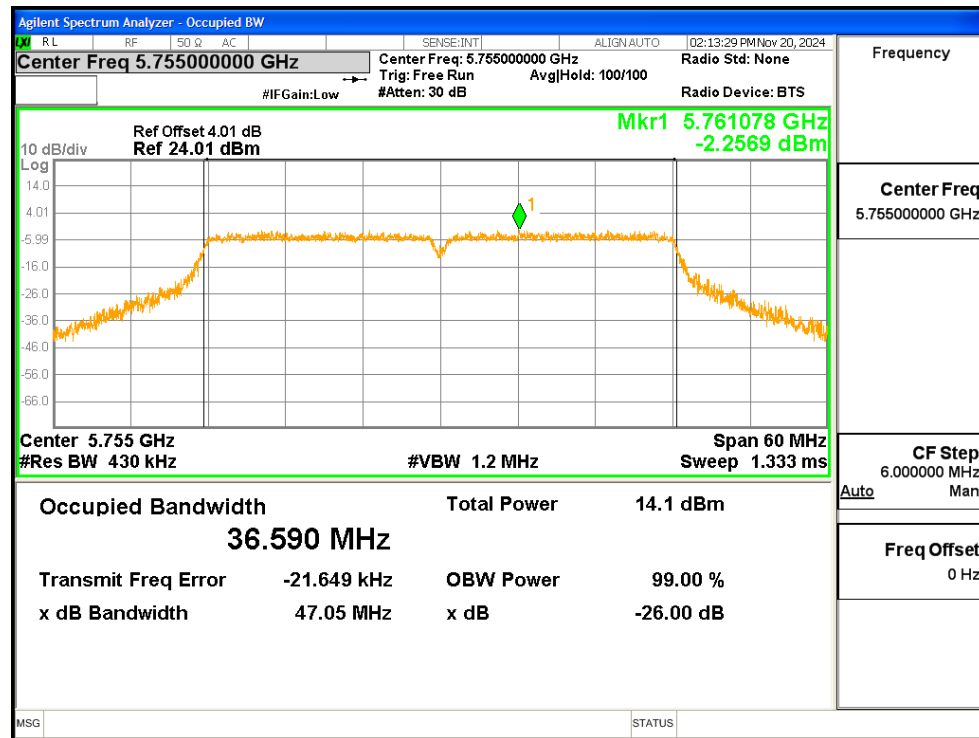
OBW NVNT n20 5785MHz Ant1



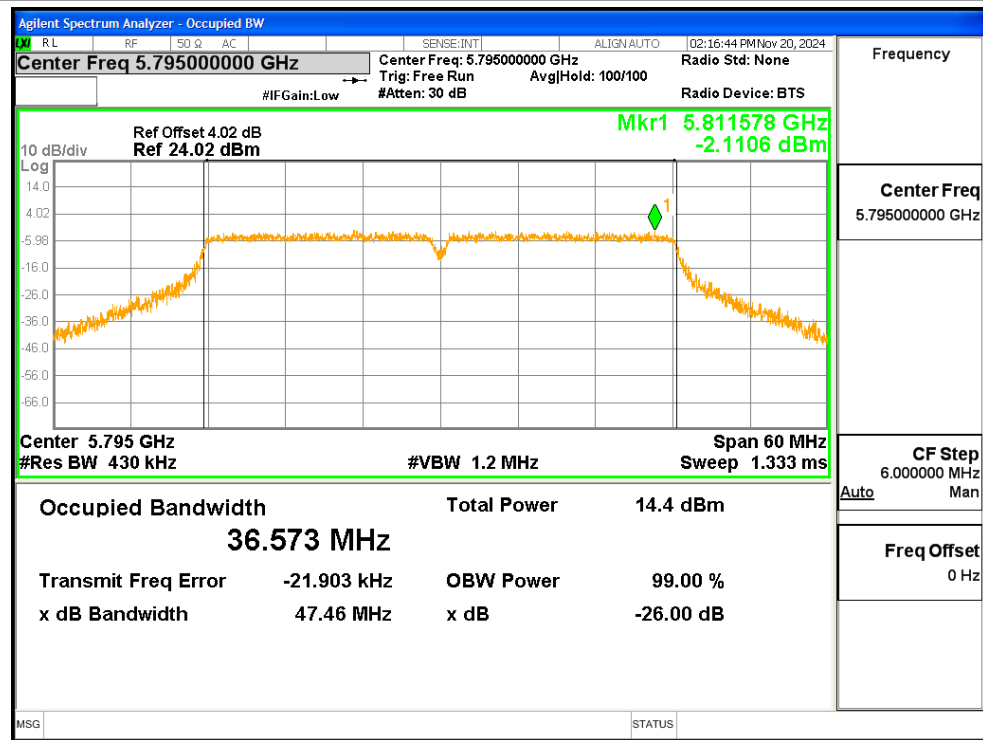
OBW NVNT n20 5825MHz Ant1



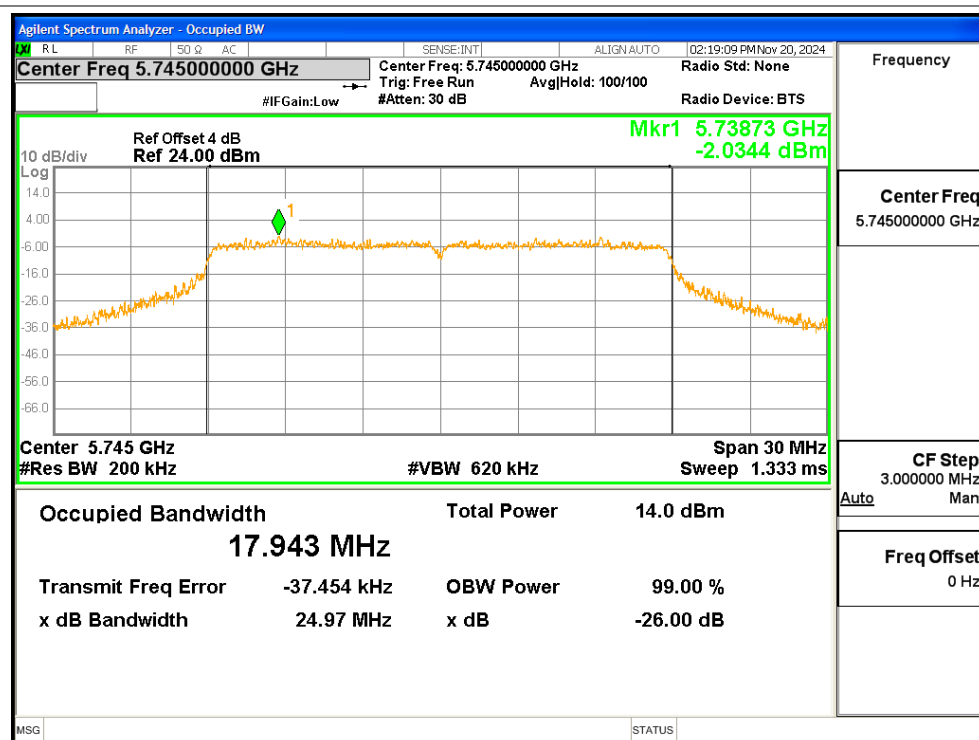
OBW NVNT n40 5755MHz Ant1



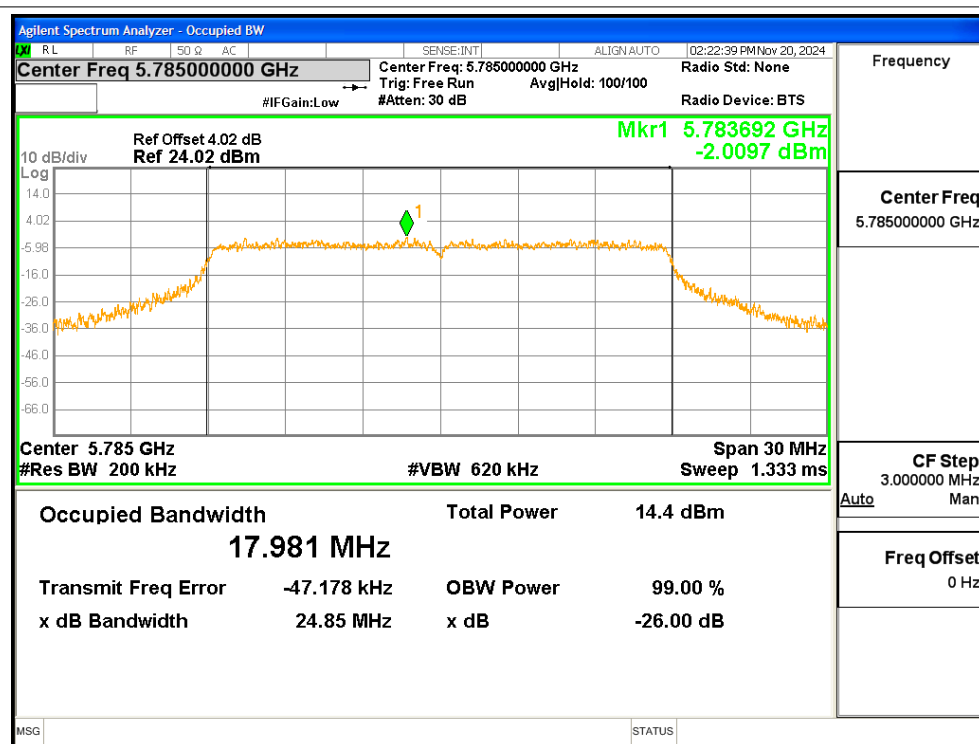
OBW NVNT n40 5795MHz Ant1



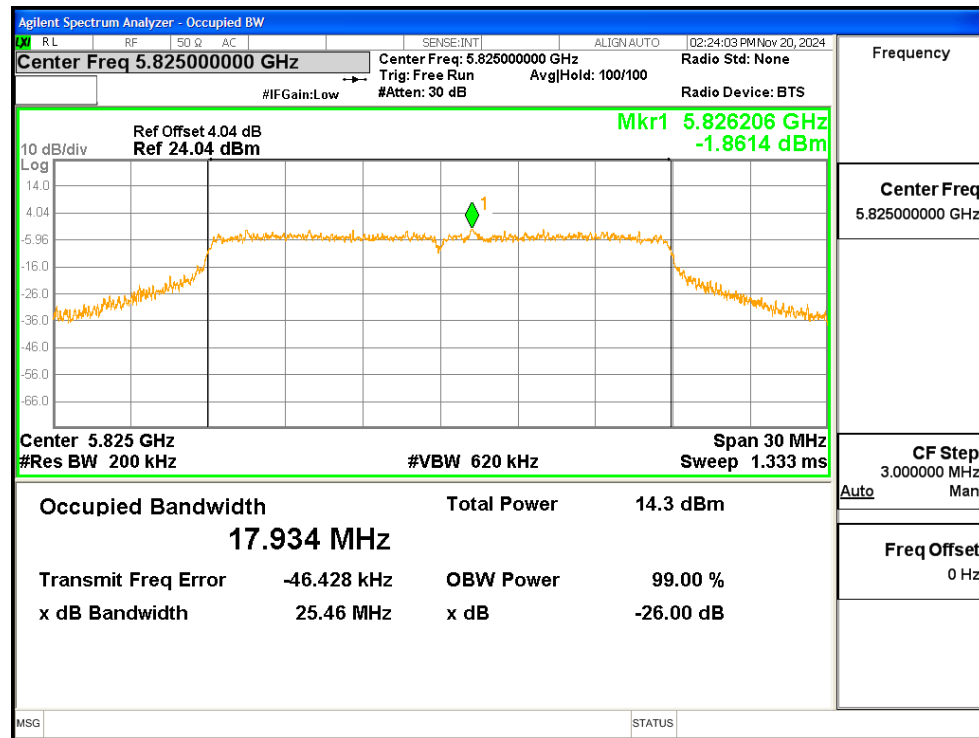
OBW NVNT ac20 5745MHz Ant1



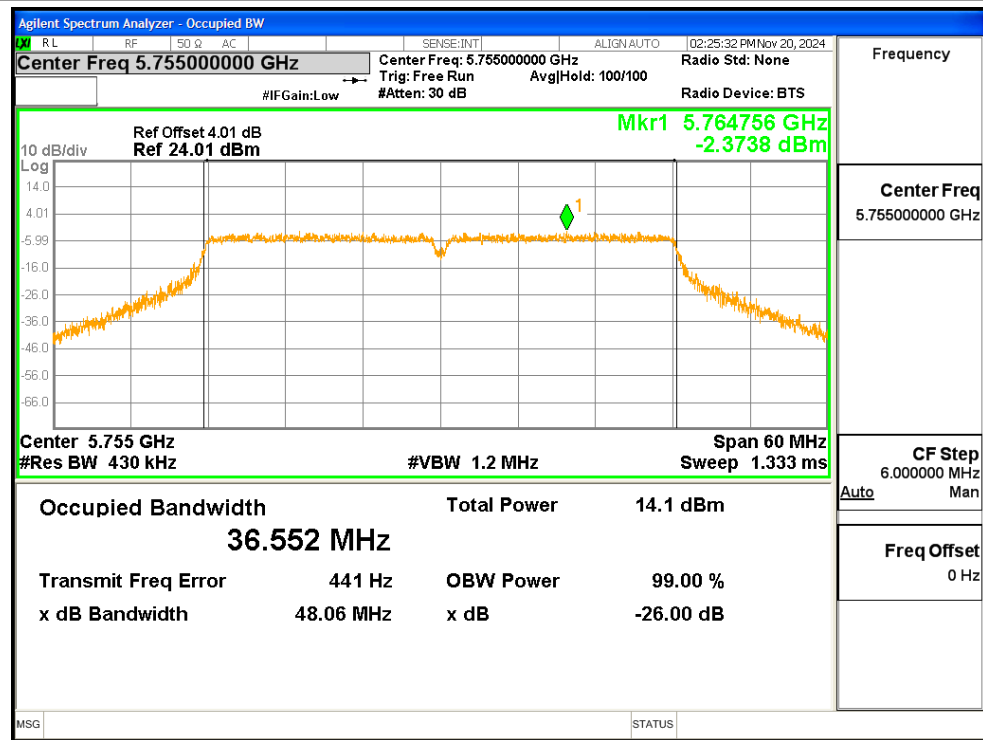
OBW NVNT ac20 5785MHz Ant1



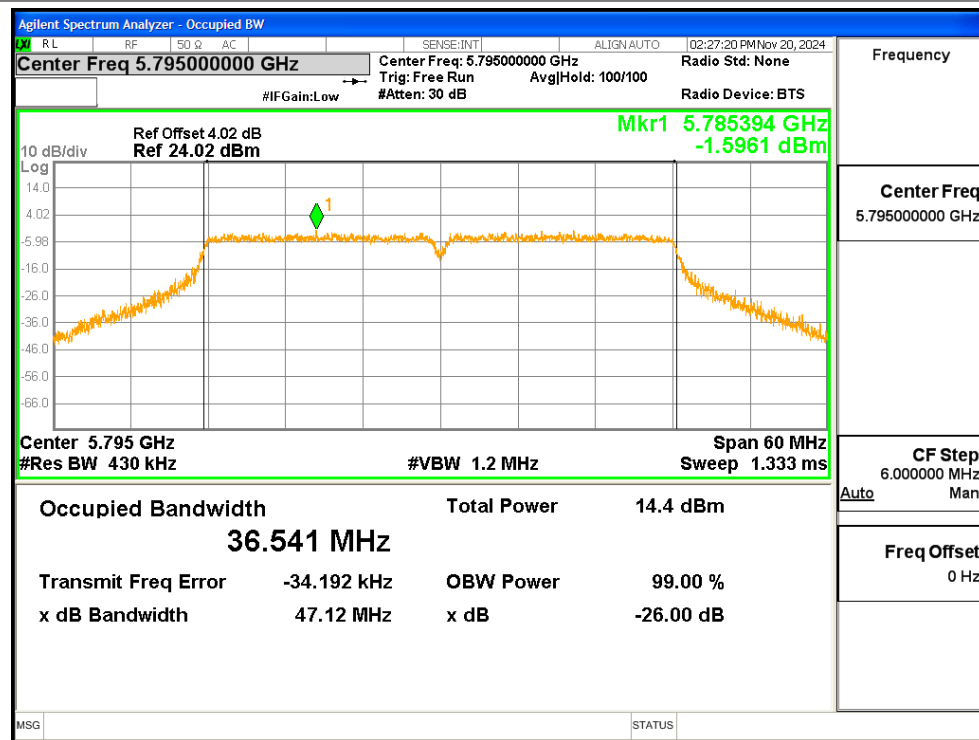
OBW NVNT ac20 5825MHz Ant1



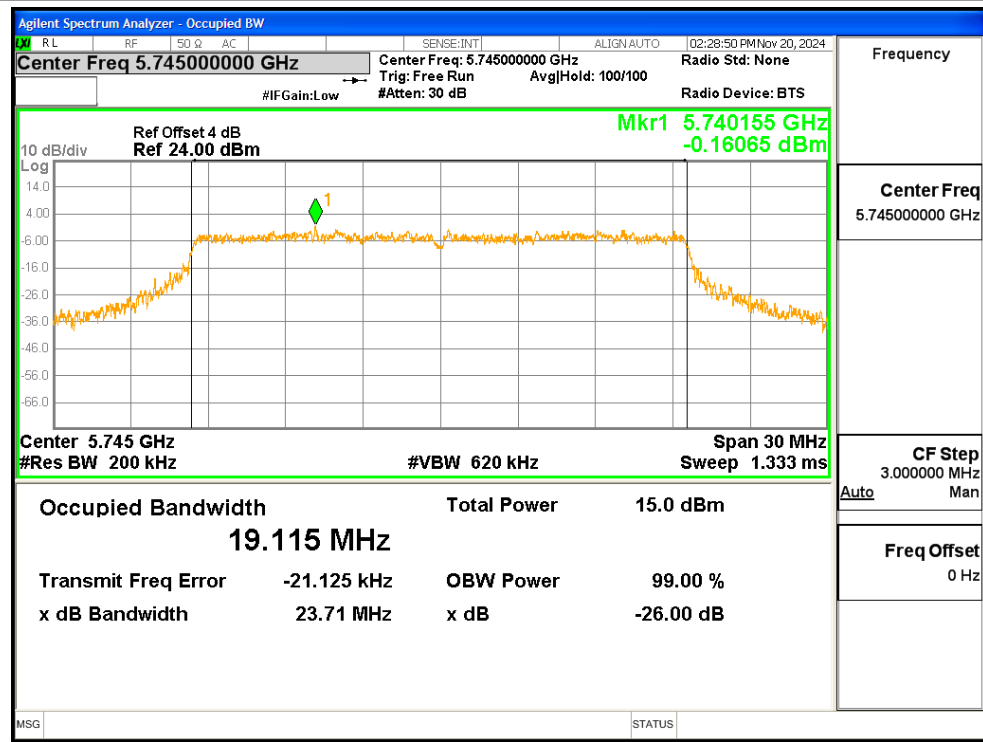
OBW NVNT ac40 5755MHz Ant1



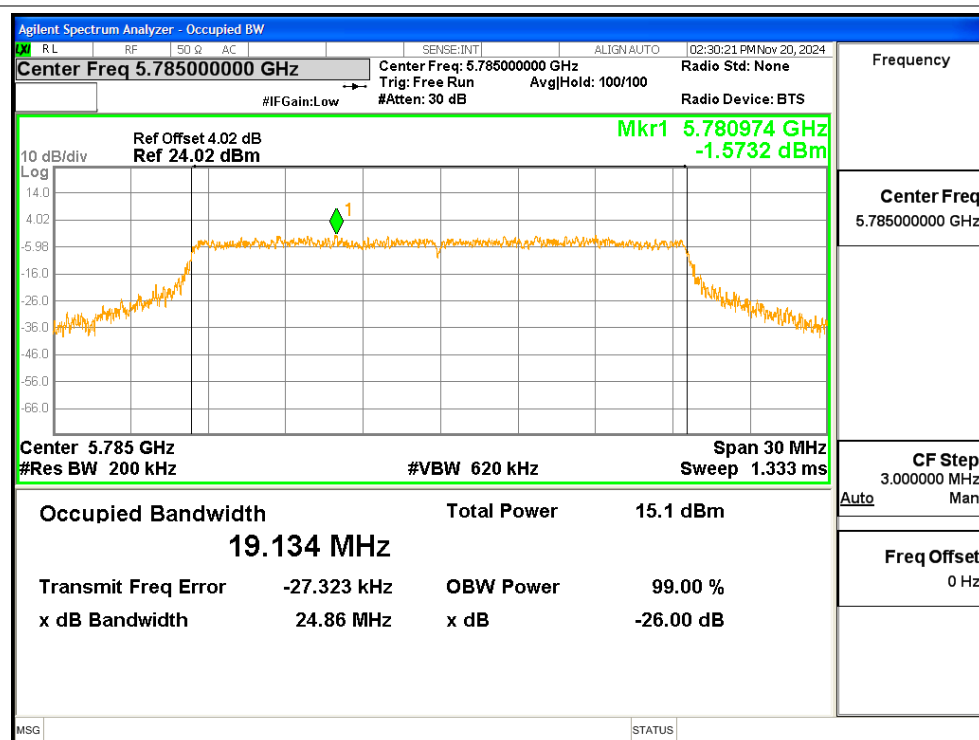
OBW NVNT ac40 5795MHz Ant1



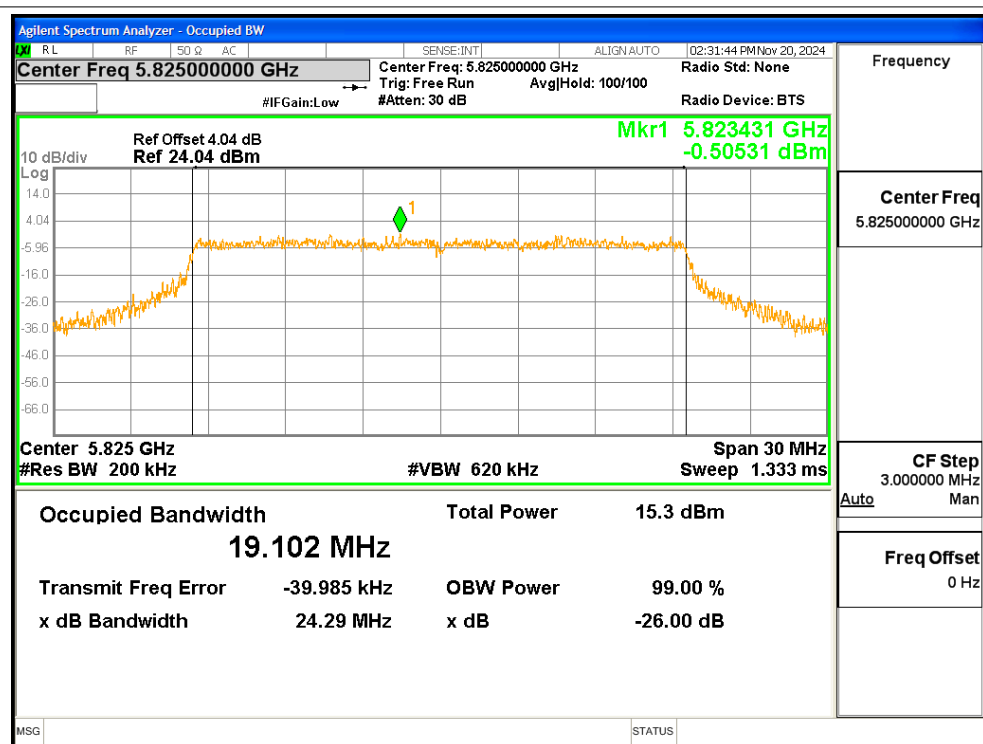
OBW NVNT ax20 5745MHz Ant1



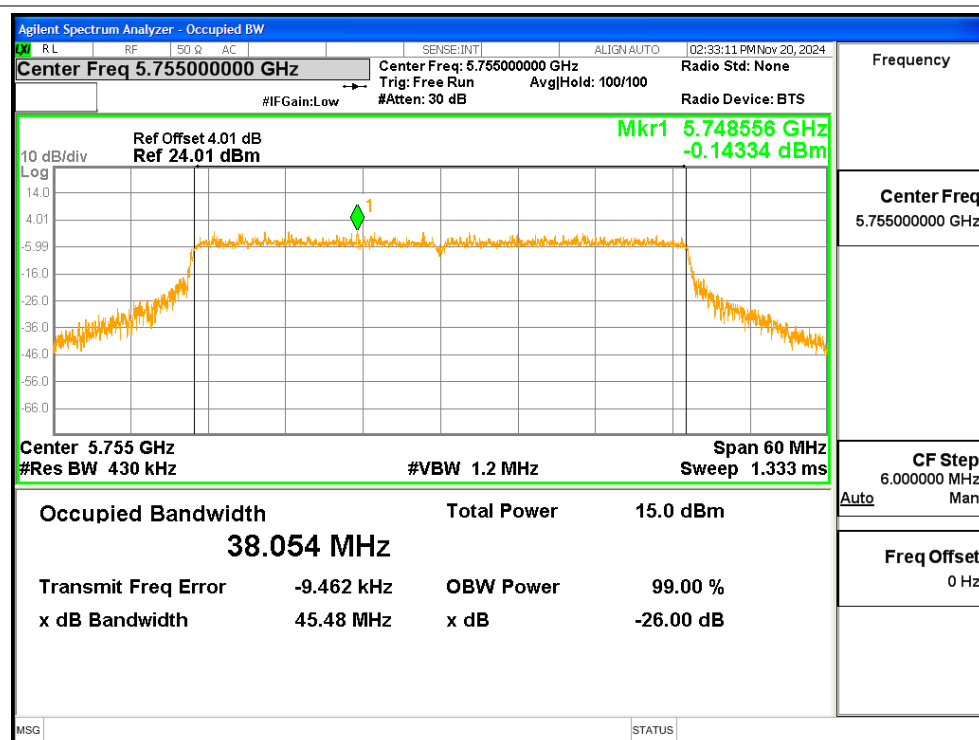
OBW NVNT ax20 5785MHz Ant1



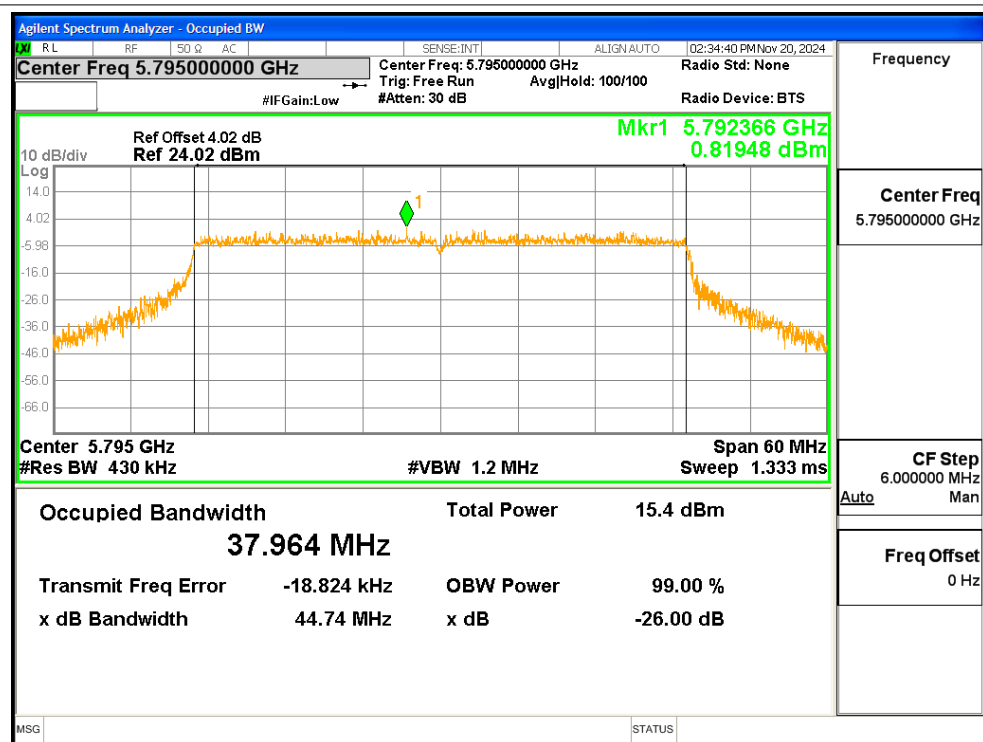
OBW NVNT ax20 5825MHz Ant1



OBW NVNT ax40 5755MHz Ant1



OBW NVNT ax40 5795MHz Ant1

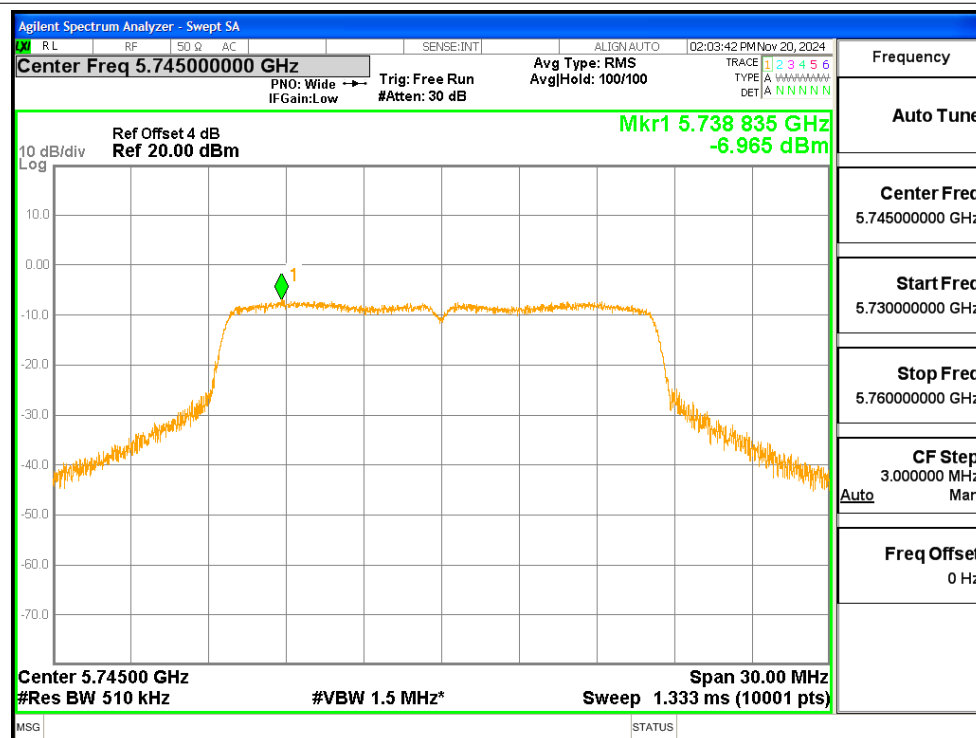


Maximum Power Spectral Density Level

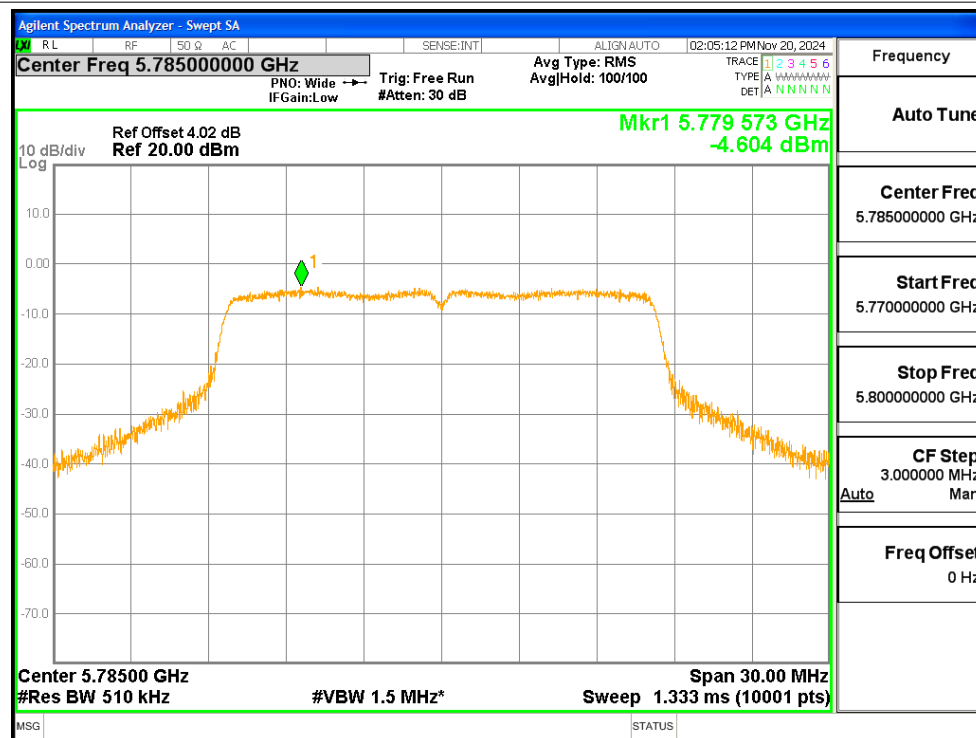
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-6.97	0.22	-6.75	30	Pass
		5785		-4.6	0.31	-4.29	30	Pass
		5825		-6.89	0.27	-6.62	30	Pass
	n20	5745		-5.34	0.2	-5.14	30	Pass
		5785		-5	0.19	-4.81	30	Pass
		5825		-5.09	0.27	-4.82	30	Pass
	n40	5755		-8.85	0.46	-8.39	30	Pass
		5795		-8.3	0.97	-7.33	30	Pass
	ac20	5745		-5.55	0.33	-5.22	30	Pass
		5785		-4.82	0.17	-4.65	30	Pass
		5825		-4.83	0.35	-4.48	30	Pass
	ac40	5755		-9.12	0.3	-8.82	30	Pass
		5795		-8.43	0.51	-7.92	30	Pass
	ax20	5745		-5.75	0.42	-5.33	30	Pass
		5785		-5.34	0.5	-4.84	30	Pass
		5825		-5.18	0.42	-4.76	30	Pass
	ax40	5755		-9.08	0.65	-8.43	30	Pass
		5795		-8.9	0.57	-8.33	30	Pass

Test Graphs

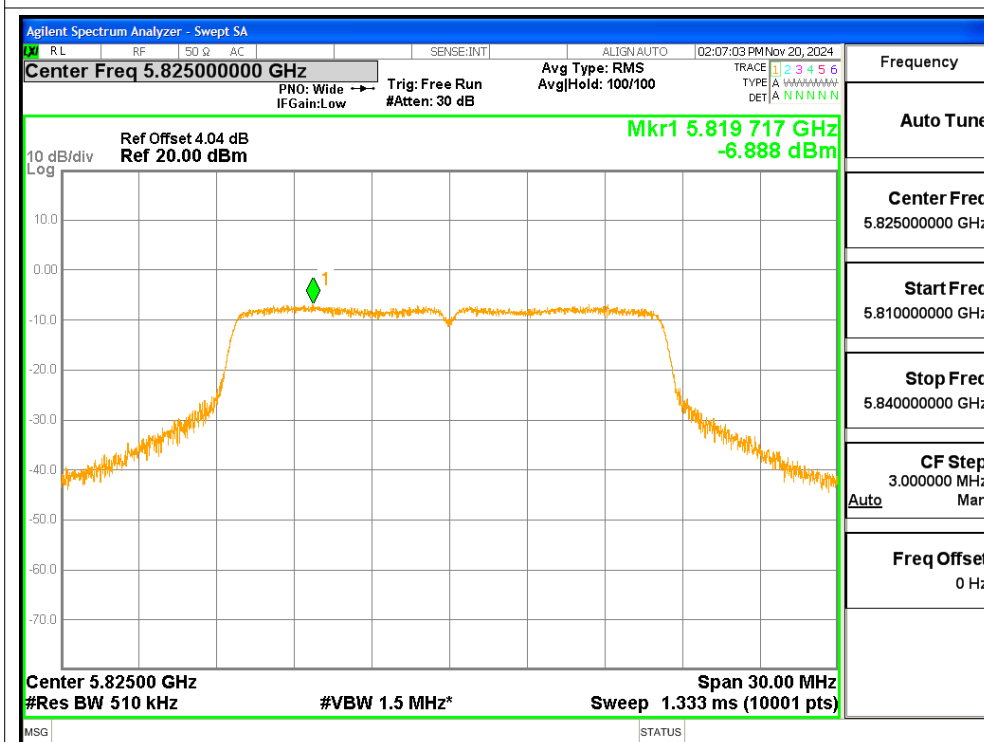
PSD NVNT a 5745MHz Ant1



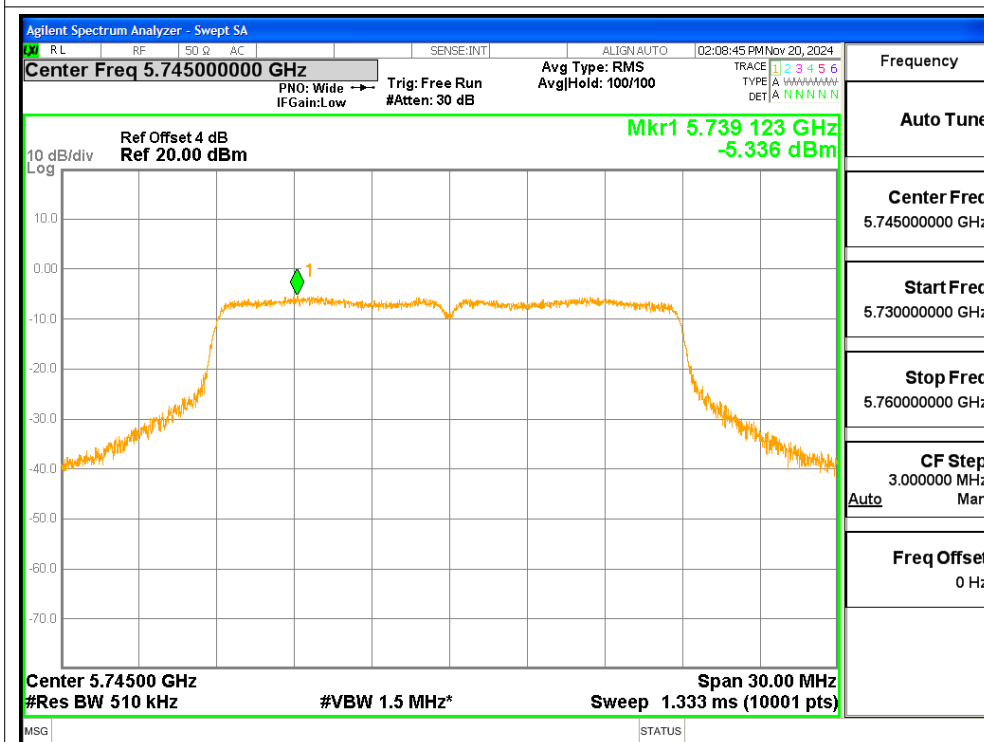
PSD NVNT a 5785MHz Ant1



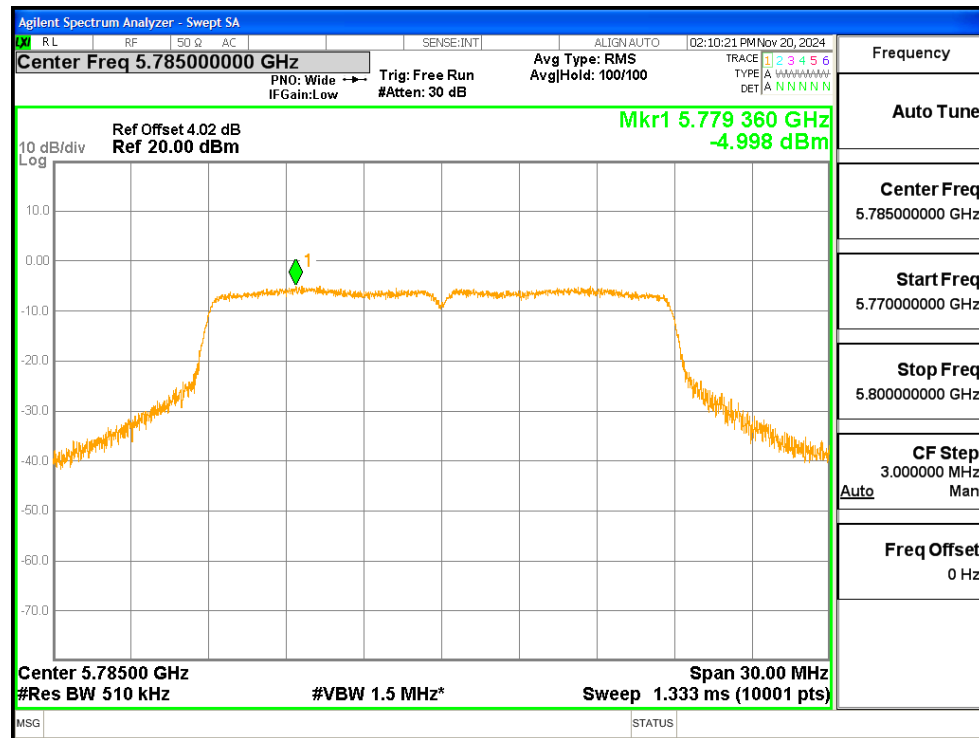
PSD NVNT a 5825MHz Ant1



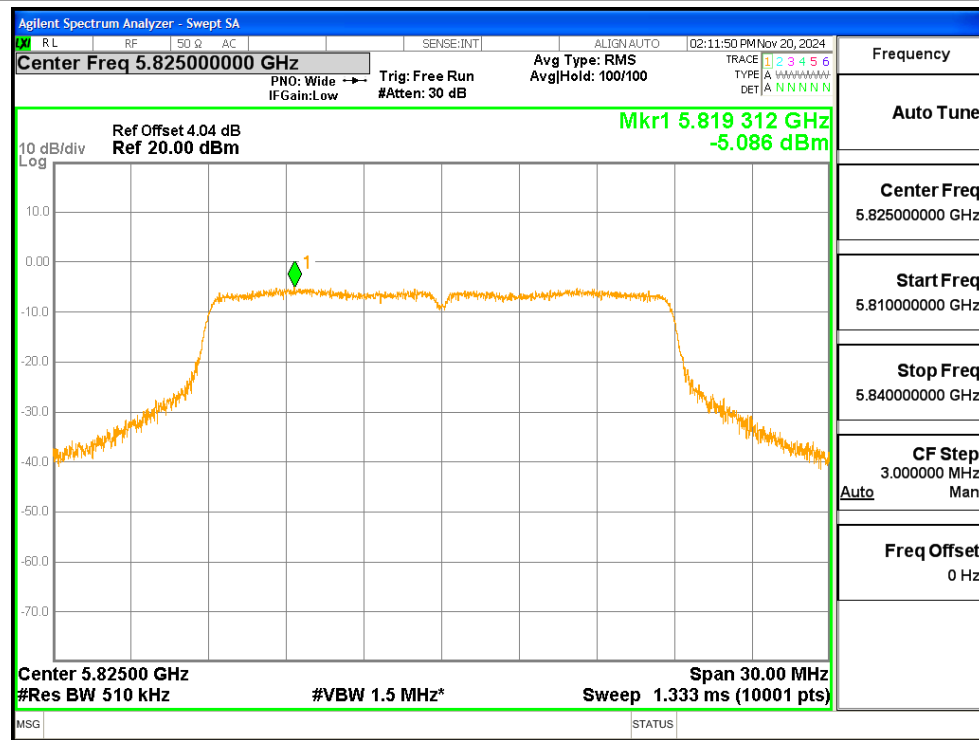
PSD NVNT n20 5745MHz Ant1



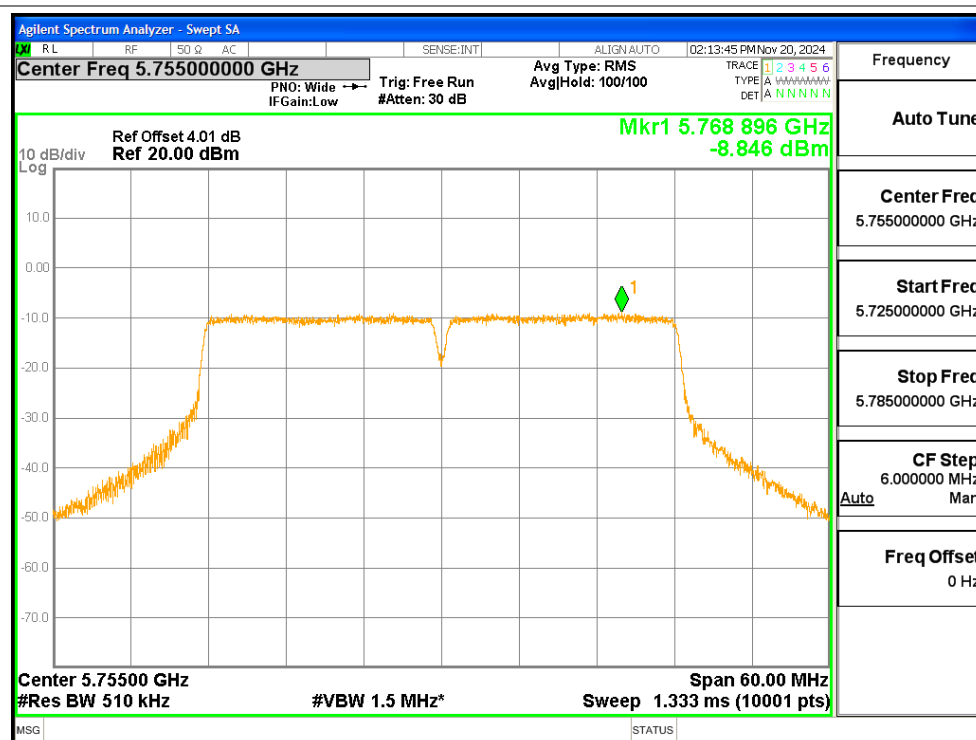
PSD NVNT n20 5785MHz Ant1



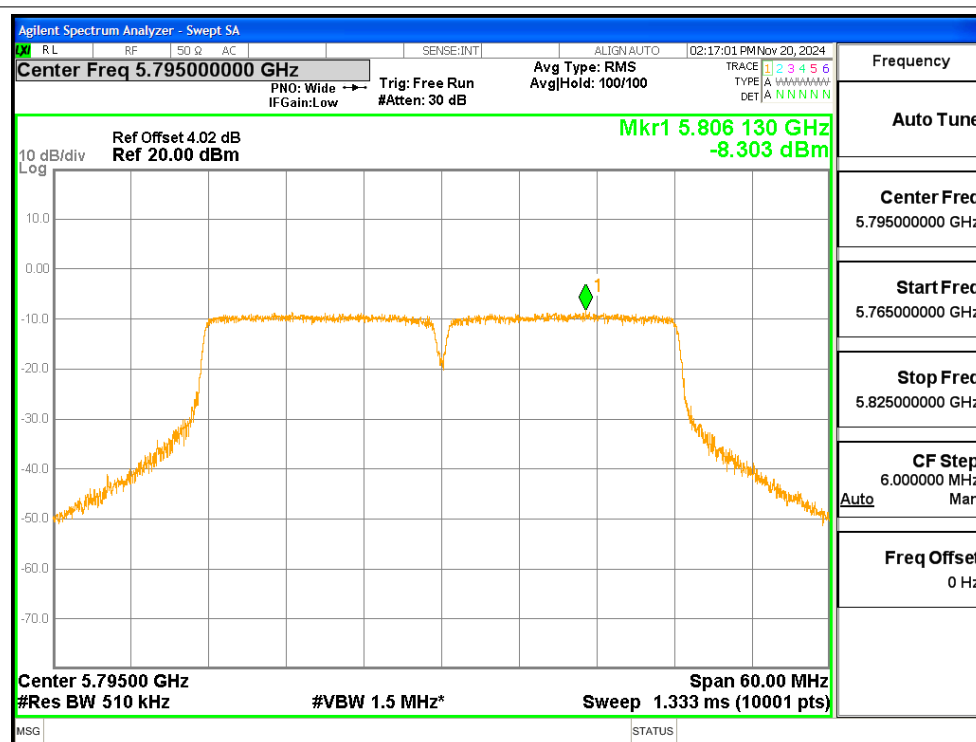
PSD NVNT n20 5825MHz Ant1



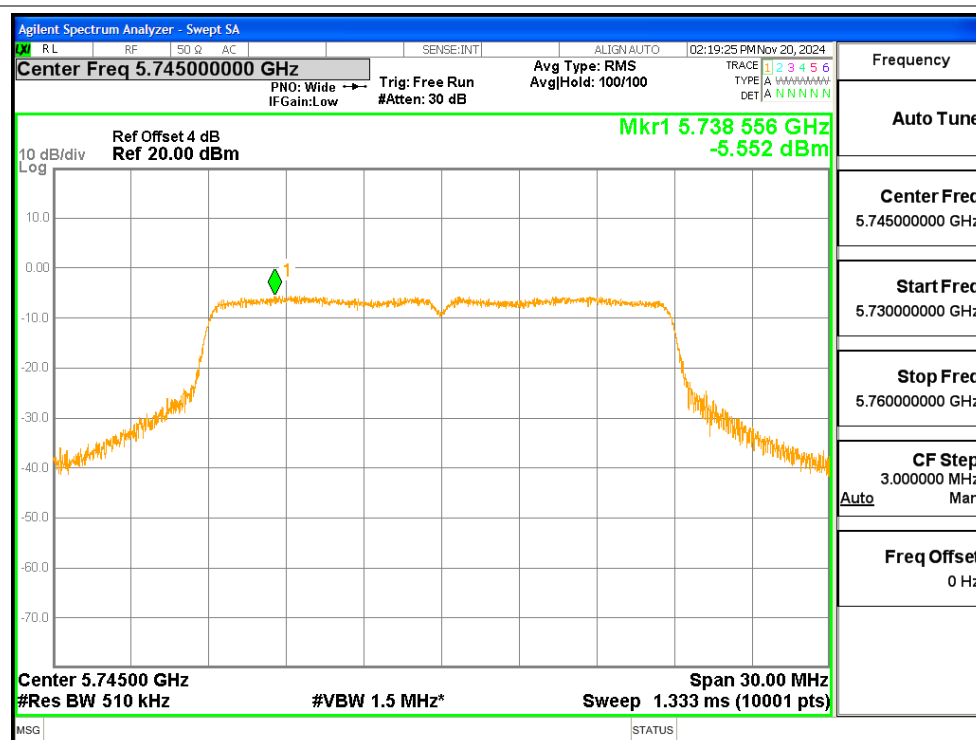
PSD NVNT n40 5755MHz Ant1



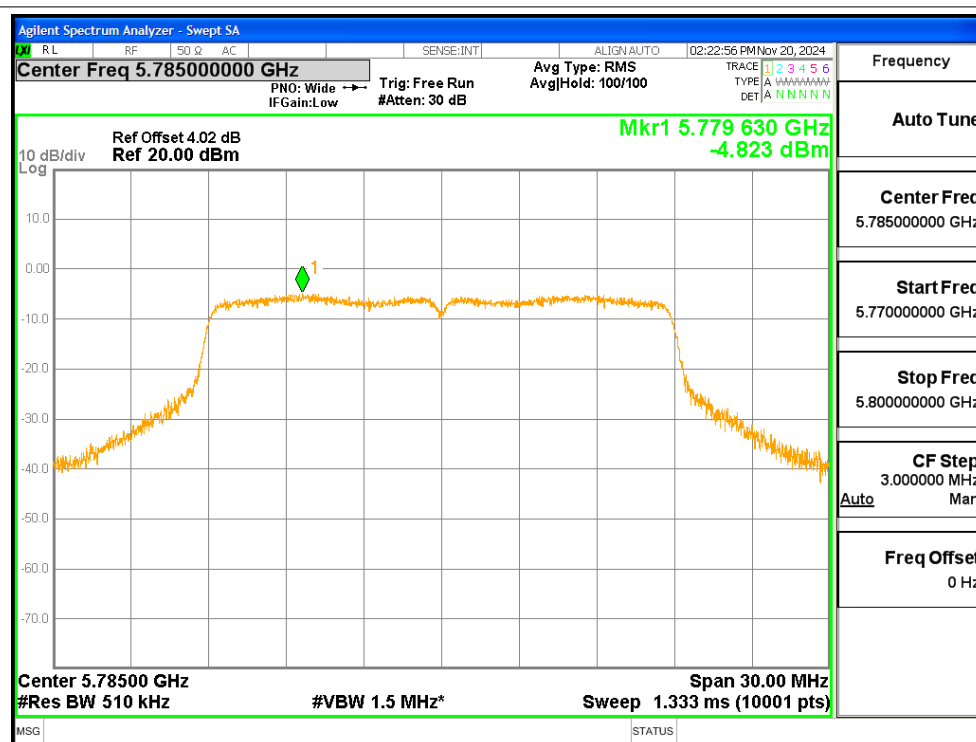
PSD NVNT n40 5795MHz Ant1



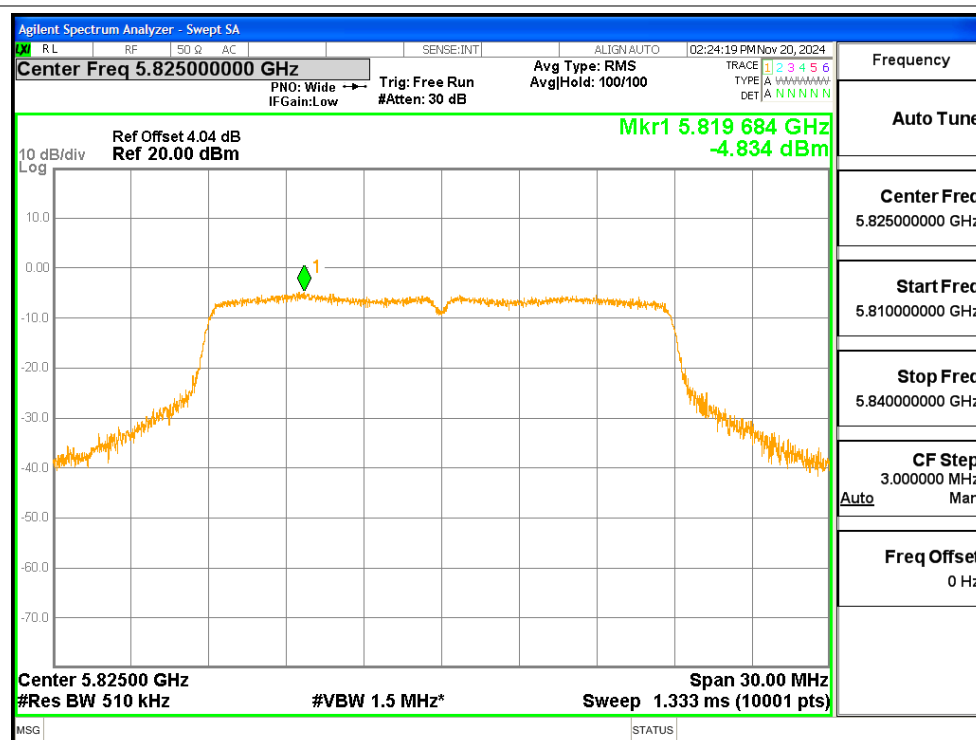
PSD NVNT ac20 5745MHz Ant1



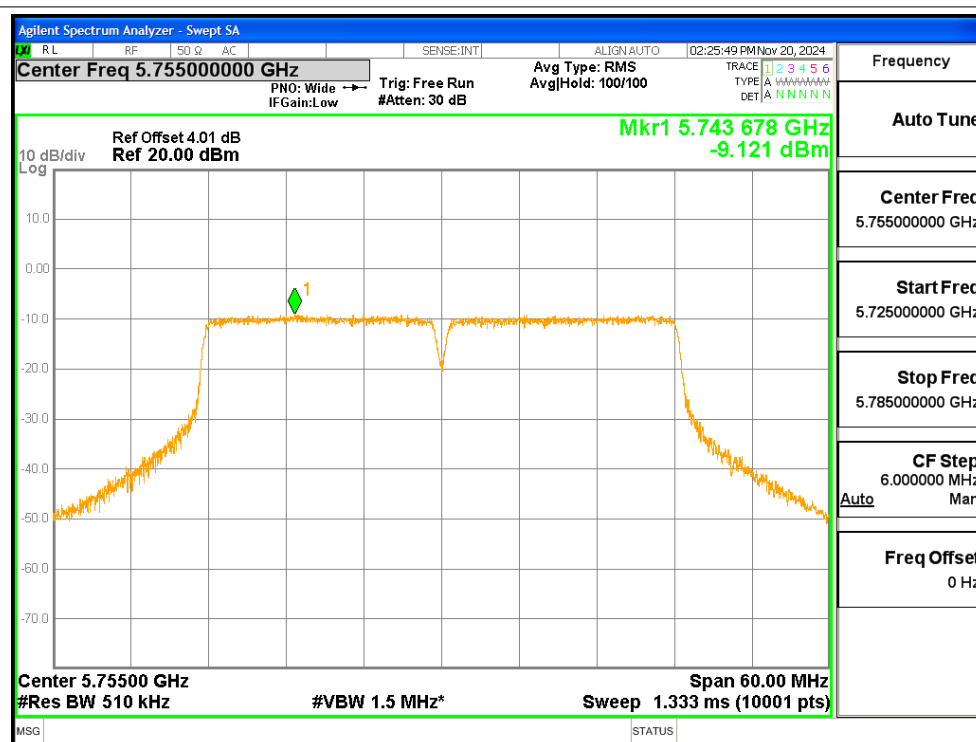
PSD NVNT ac20 5785MHz Ant1



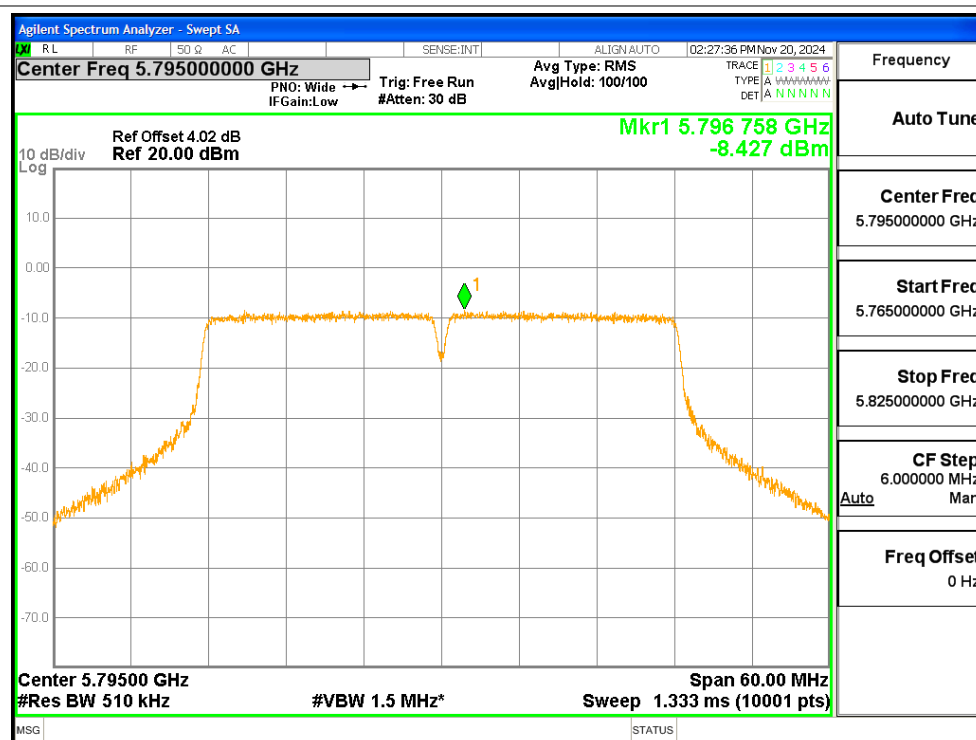
PSD NVNT ac20 5825MHz Ant1



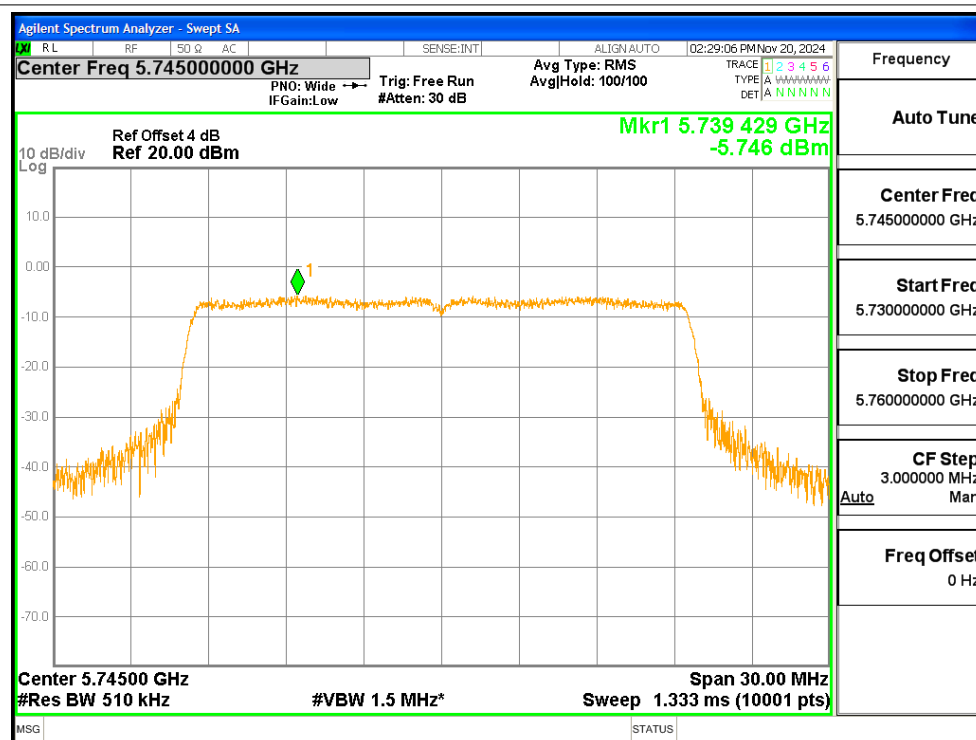
PSD NVNT ac40 5755MHz Ant1



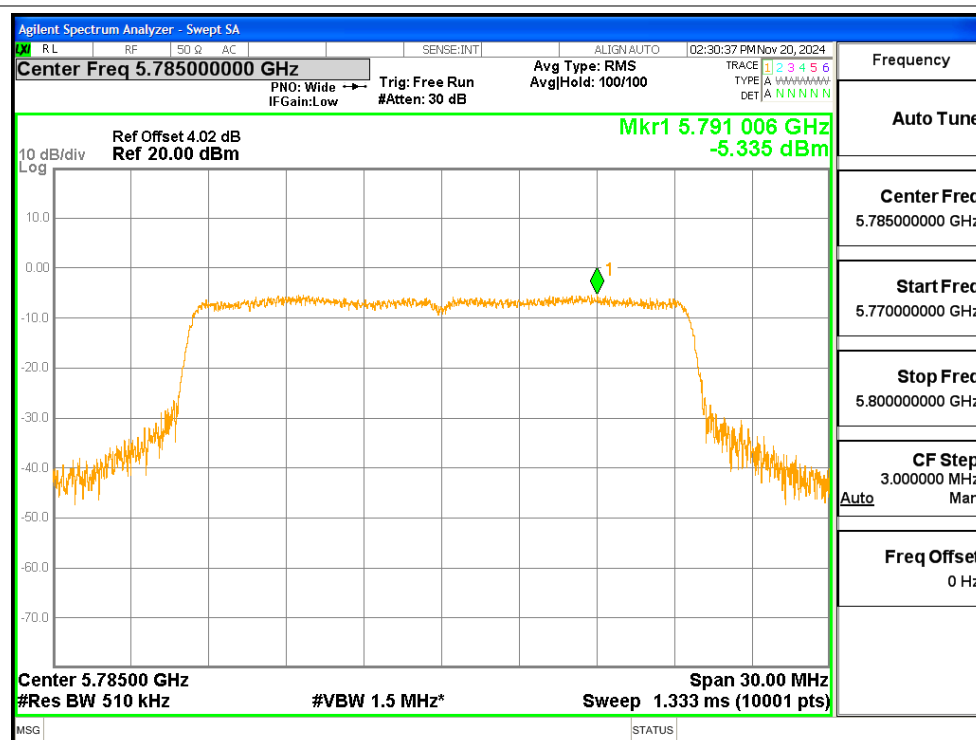
PSD NVNT ac40 5795MHz Ant1



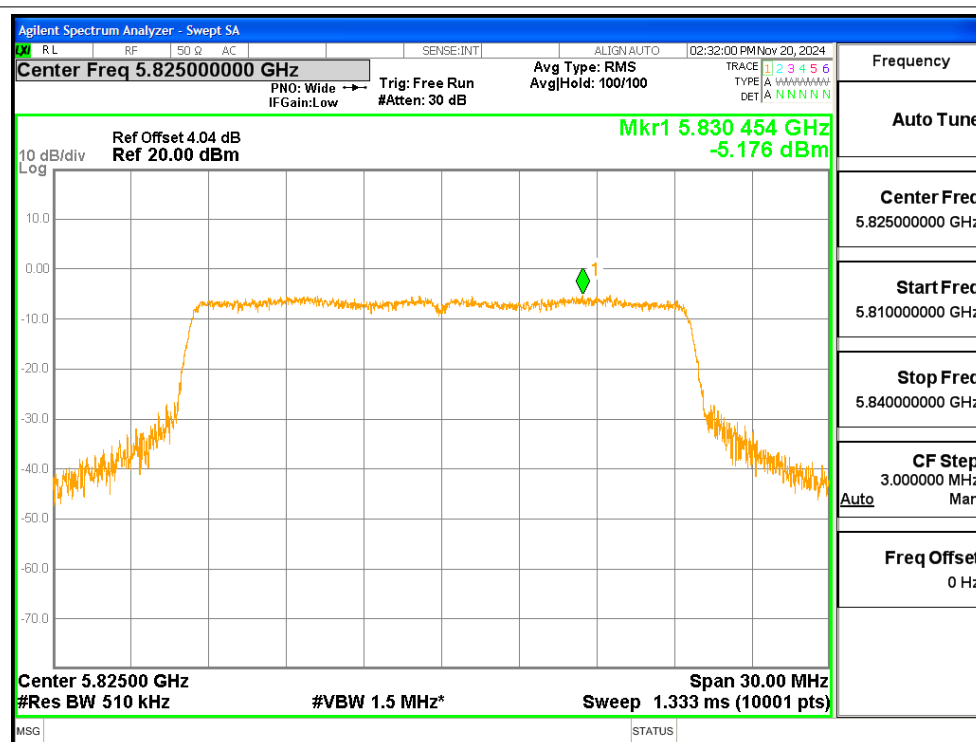
PSD NVNT ax20 5745MHz Ant1



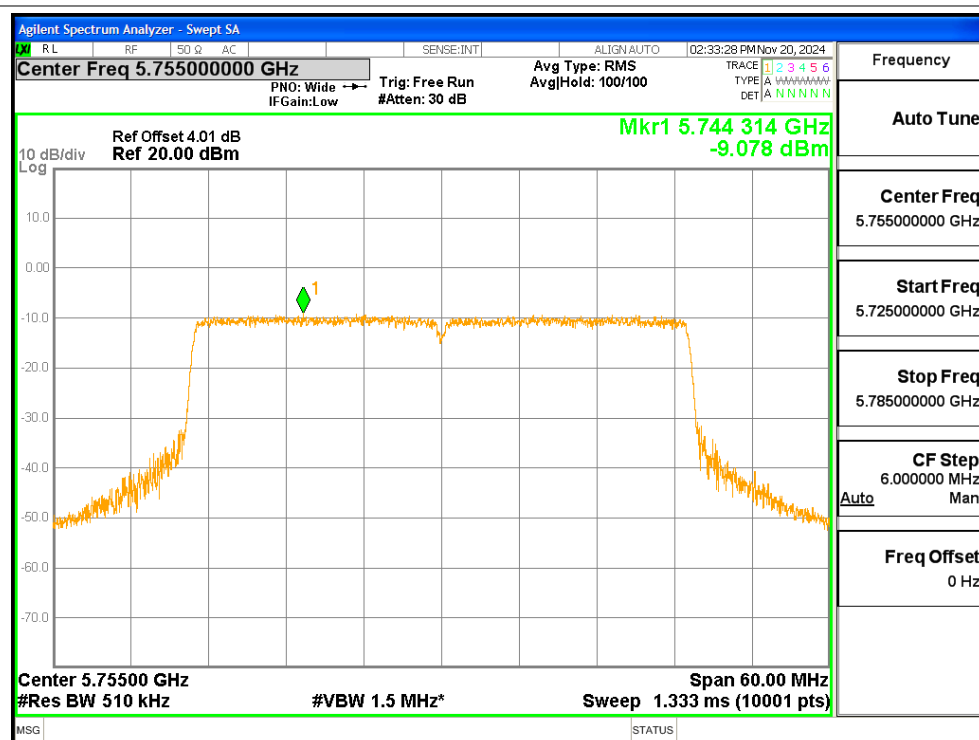
PSD NVNT ax20 5785MHz Ant1



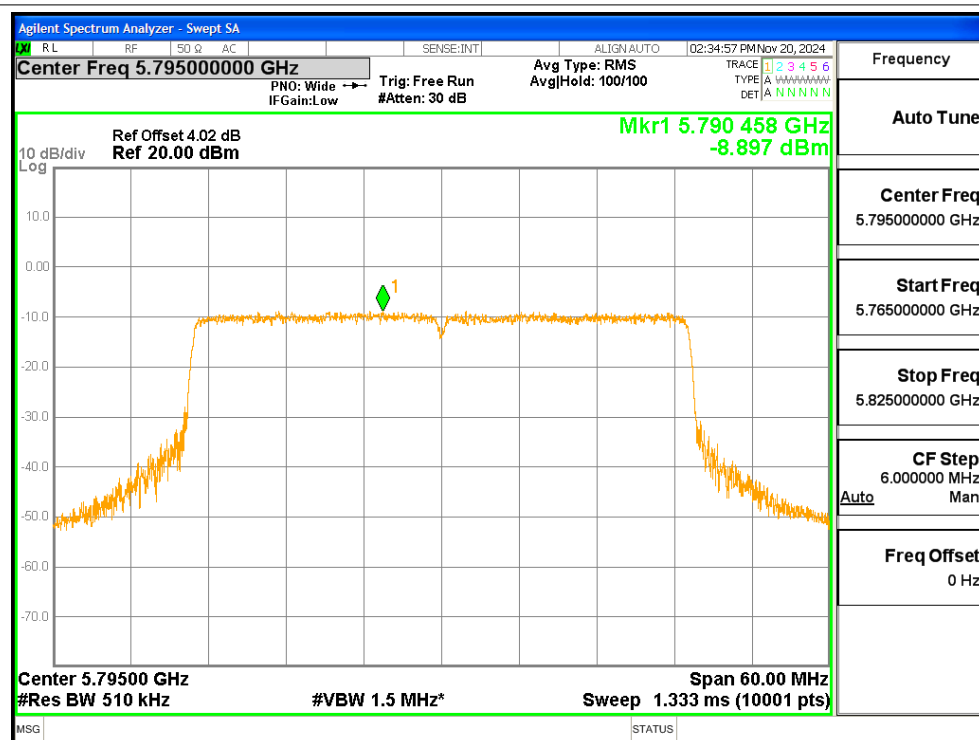
PSD NVNT ax20 5825MHz Ant1



PSD NVNT ax40 5755MHz Ant1

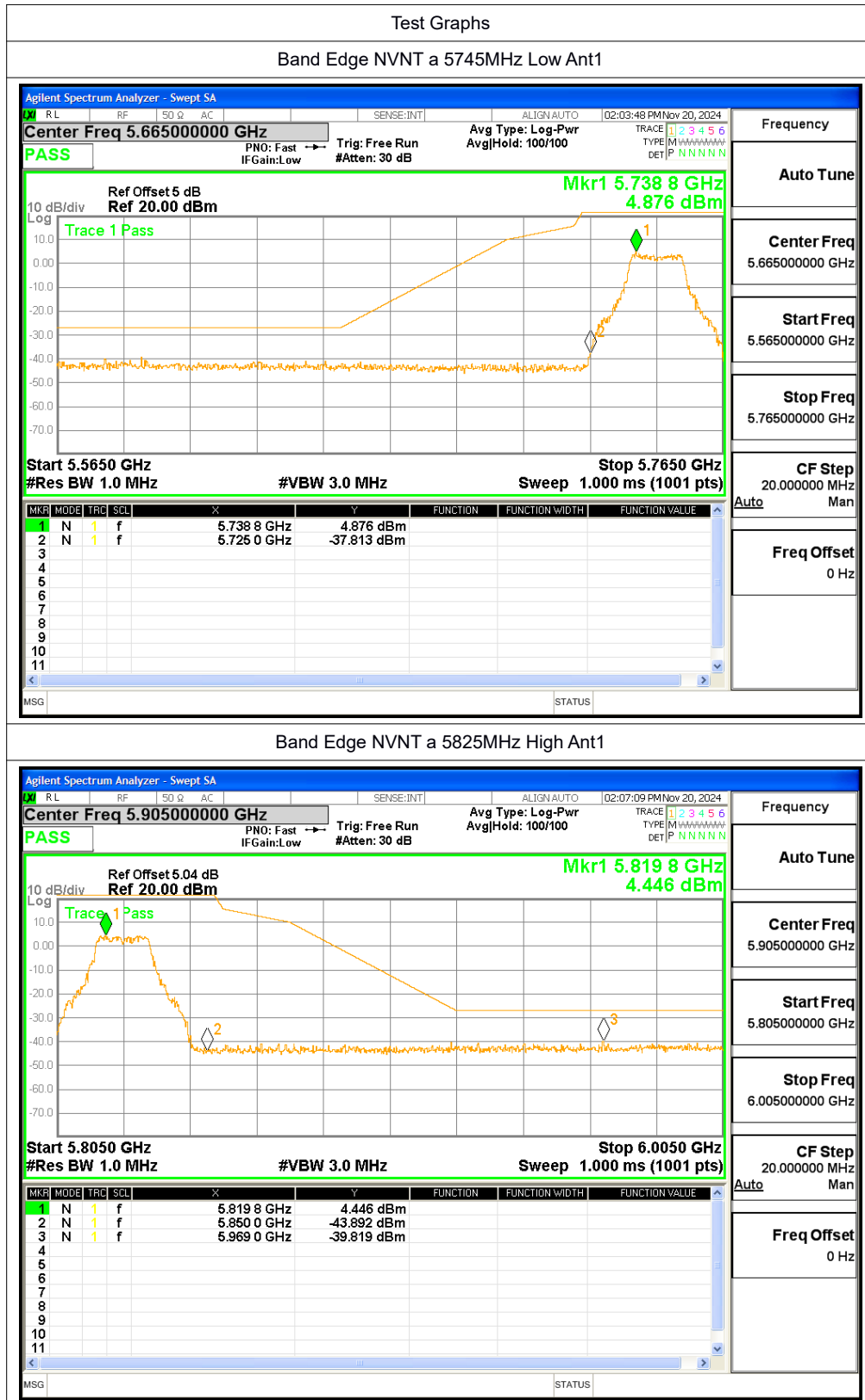


PSD NVNT ax40 5795MHz Ant1

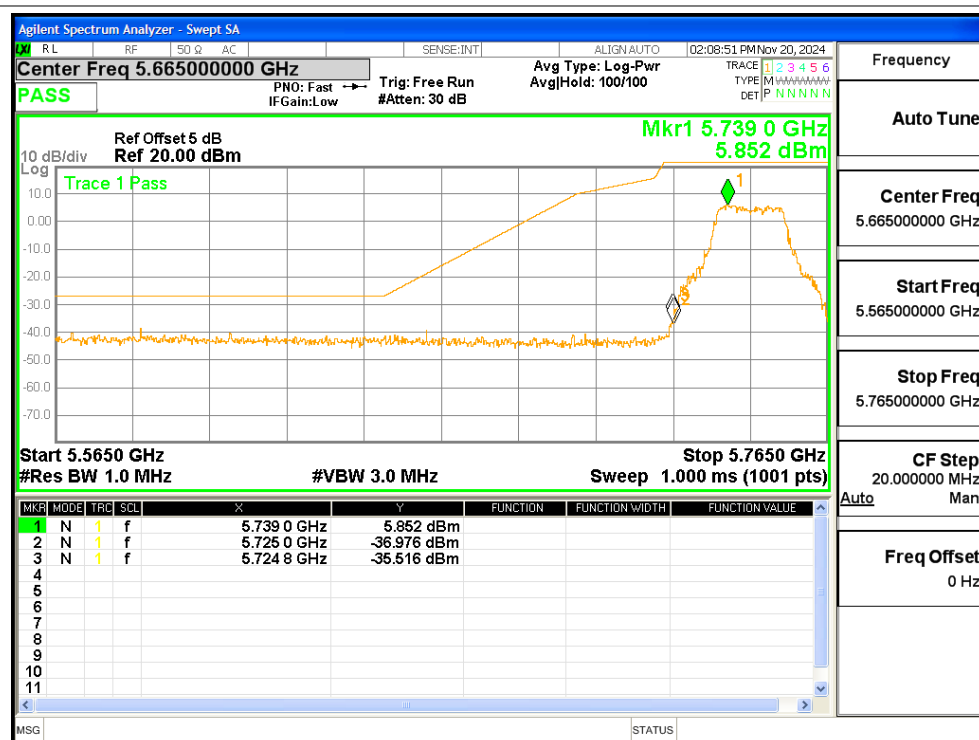


Band Edge

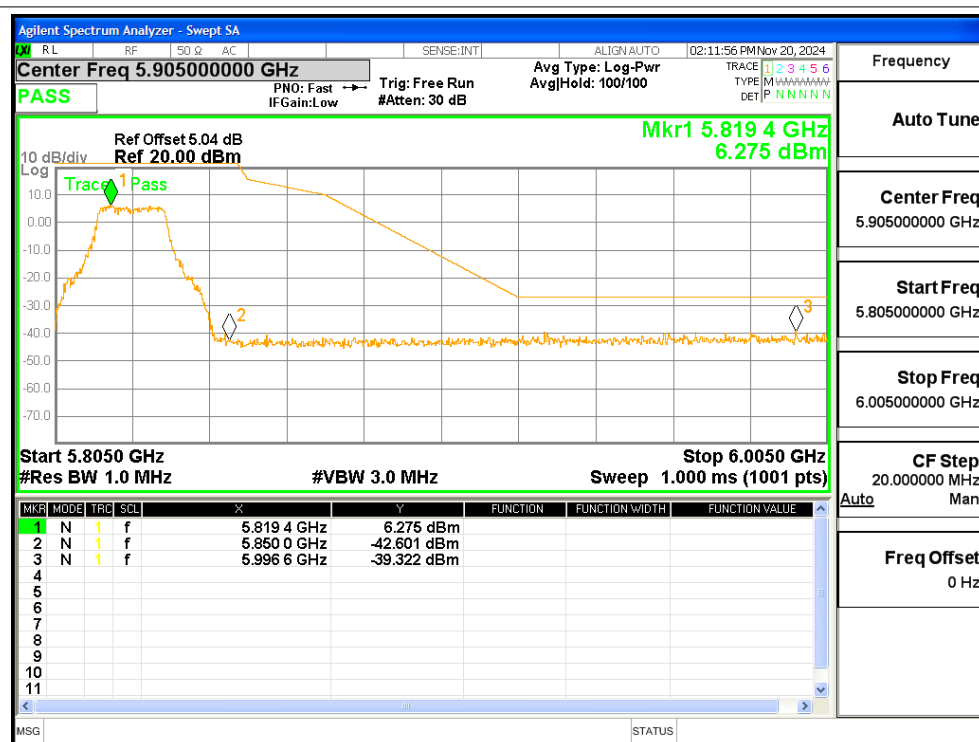
Note: The test diagram has integrated antenna gain to Offset Settings.



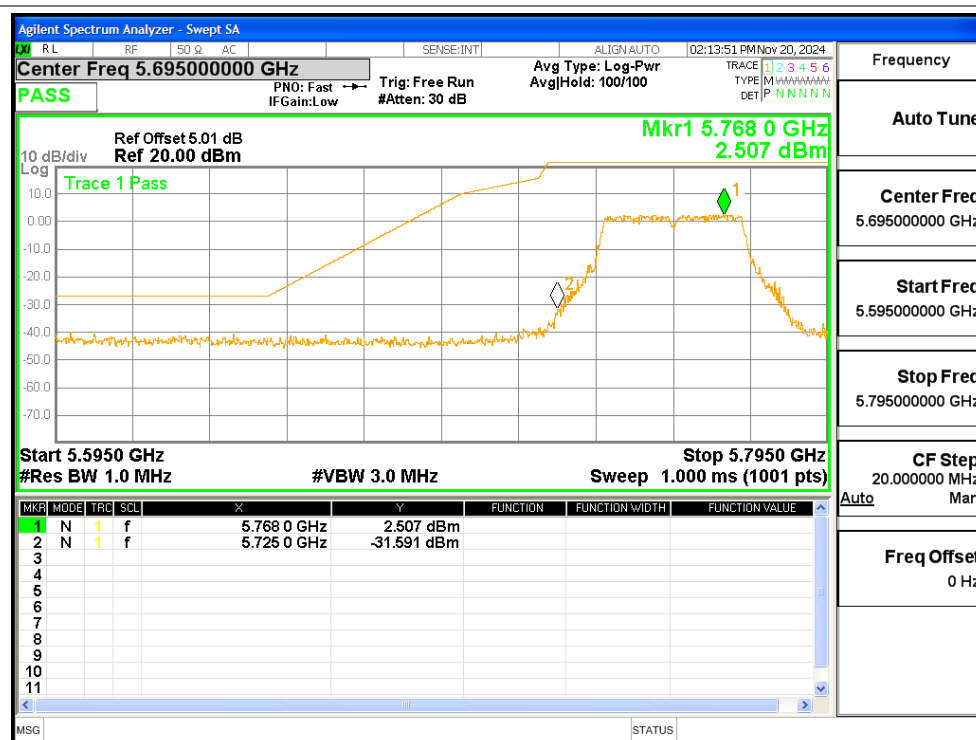
Band Edge NVNT n20 5745MHz Low Ant1



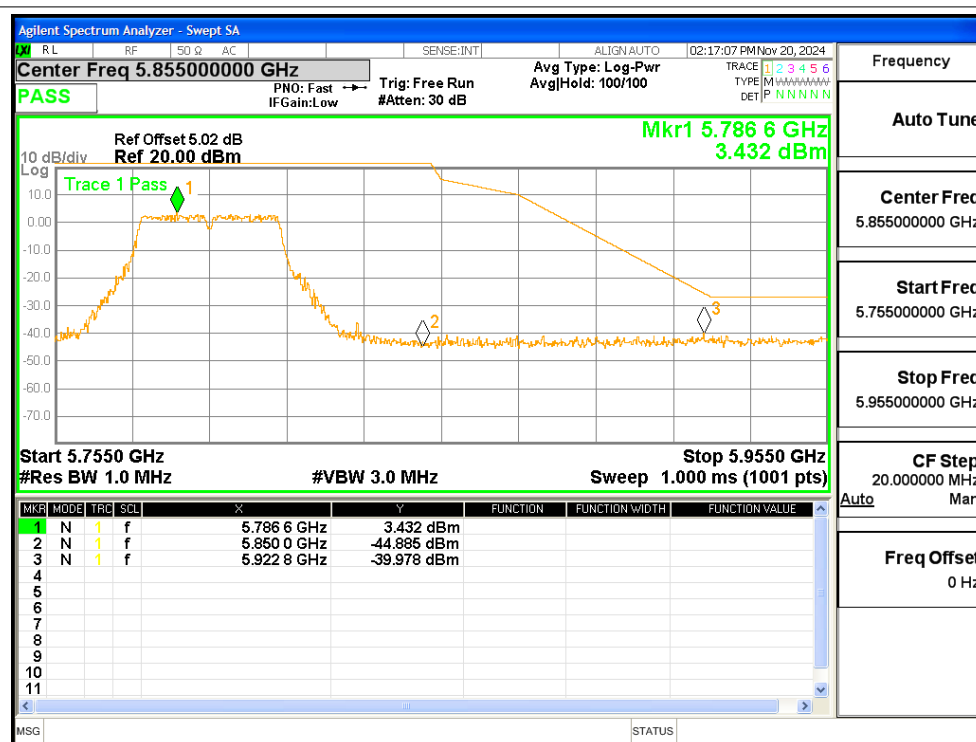
Band Edge NVNT n20 5825MHz High Ant1



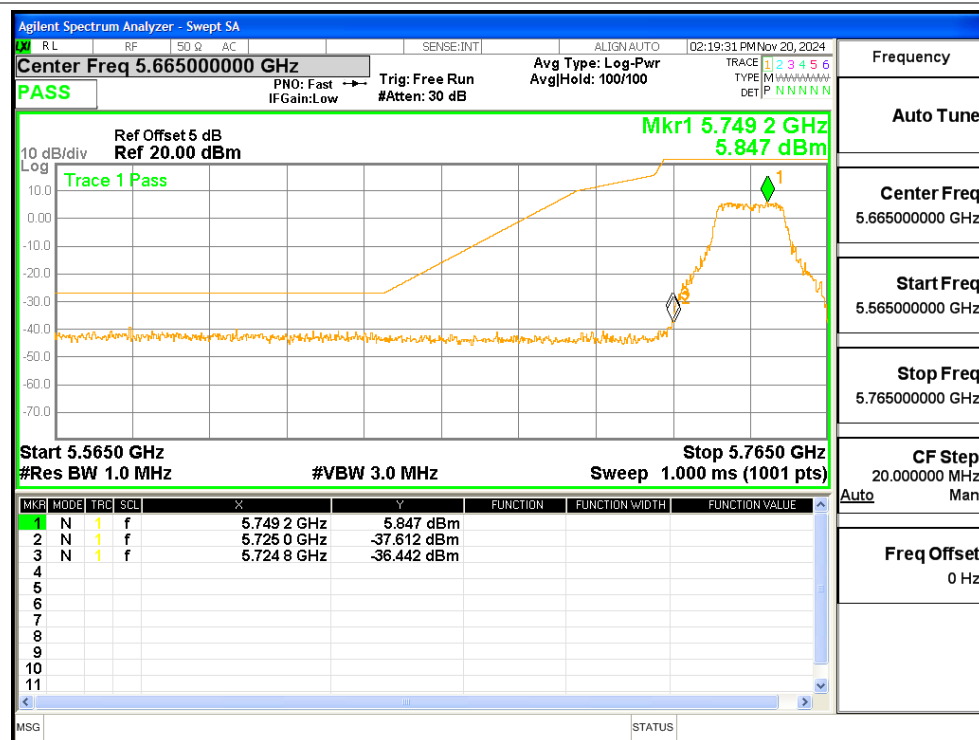
Band Edge NVNT n40 5755MHz Low Ant1



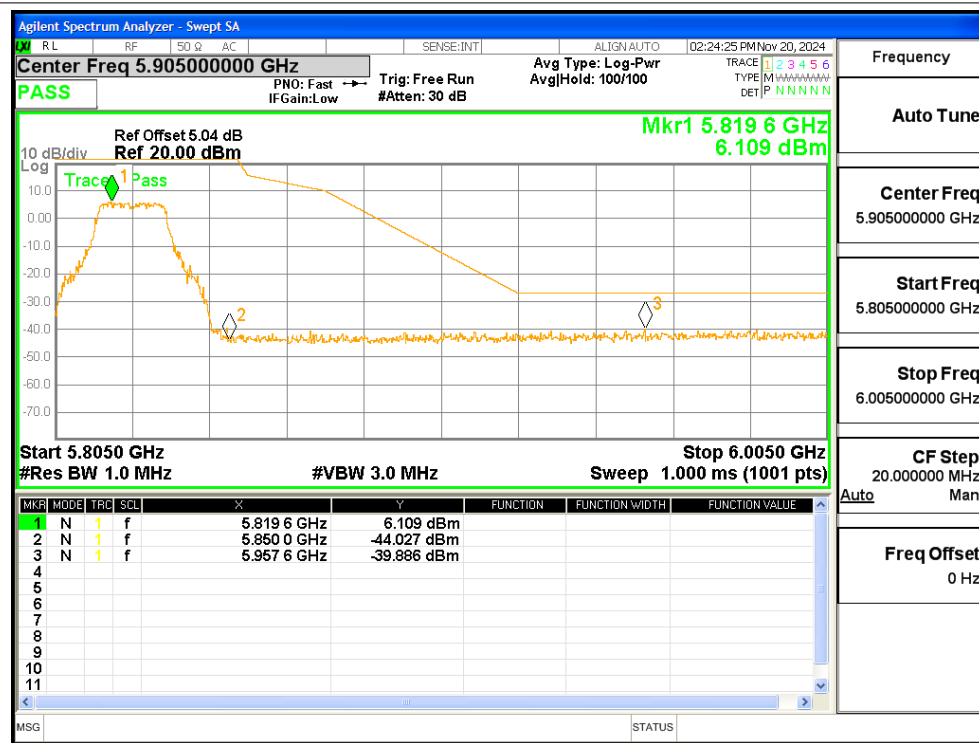
Band Edge NVNT n40 5795MHz High Ant1



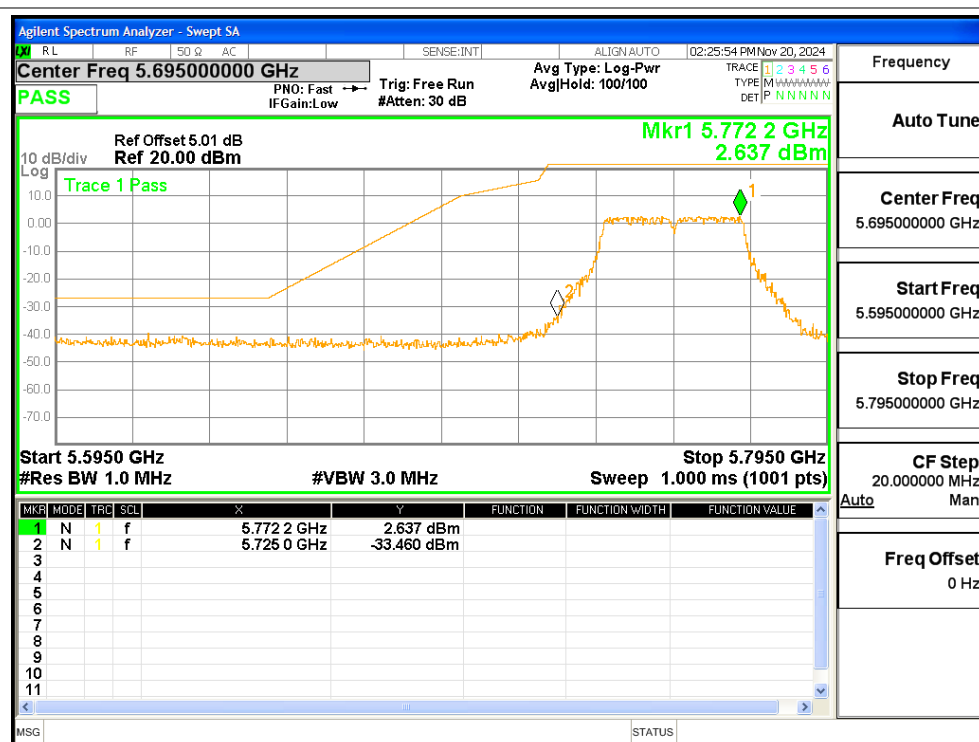
Band Edge NVNT ac20 5745MHz Low Ant1



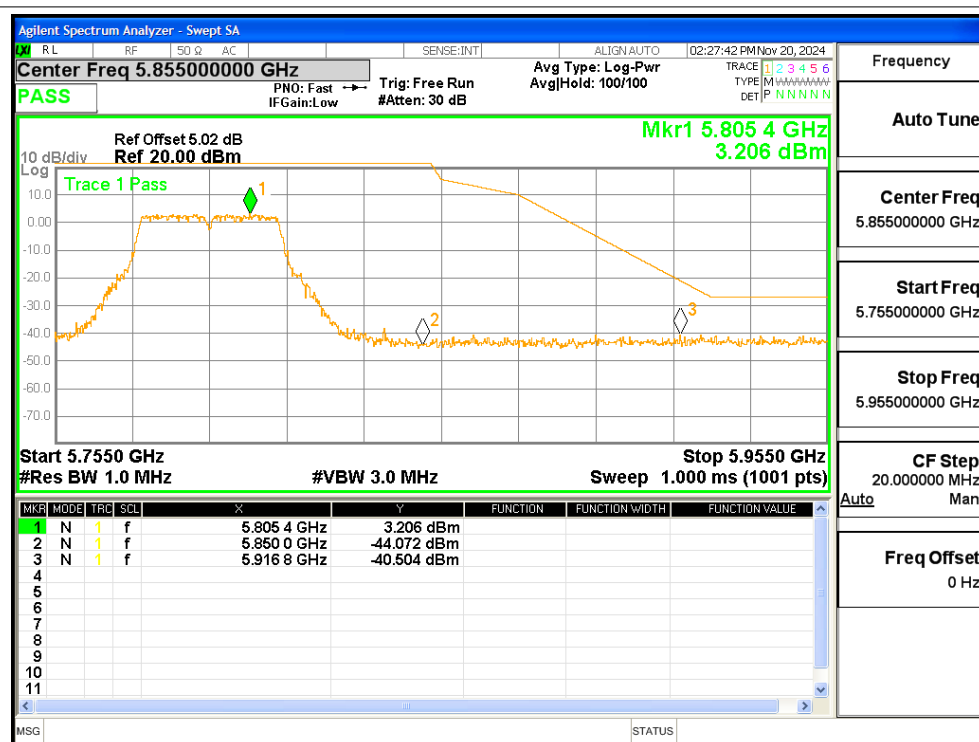
Band Edge NVNT ac20 5825MHz High Ant1



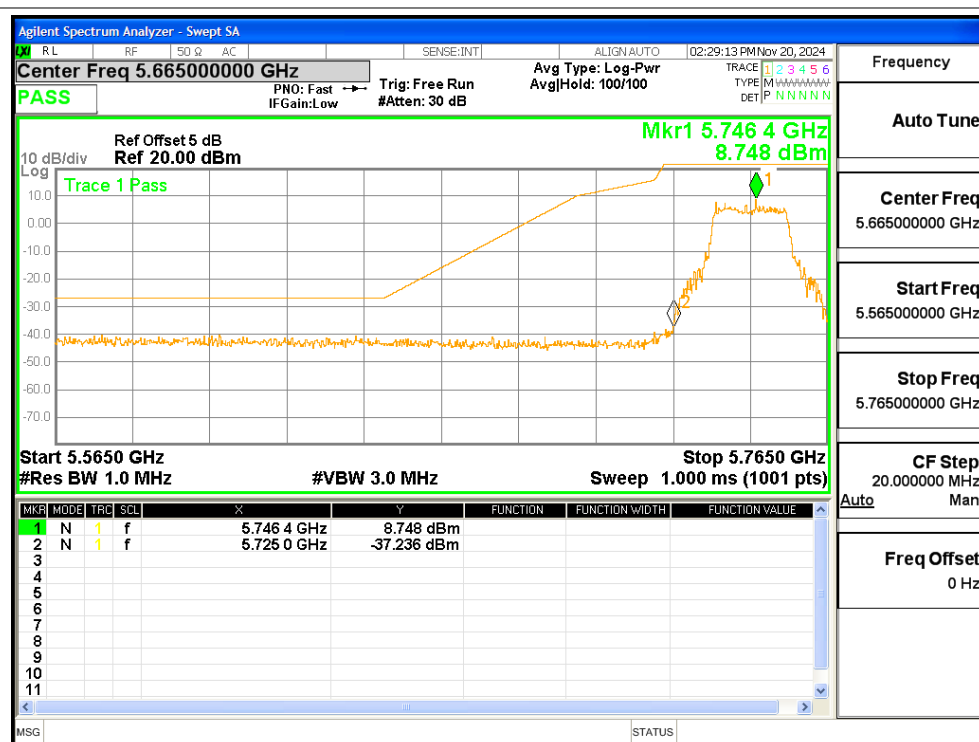
Band Edge NVNT ac40 5755MHz Low Ant1



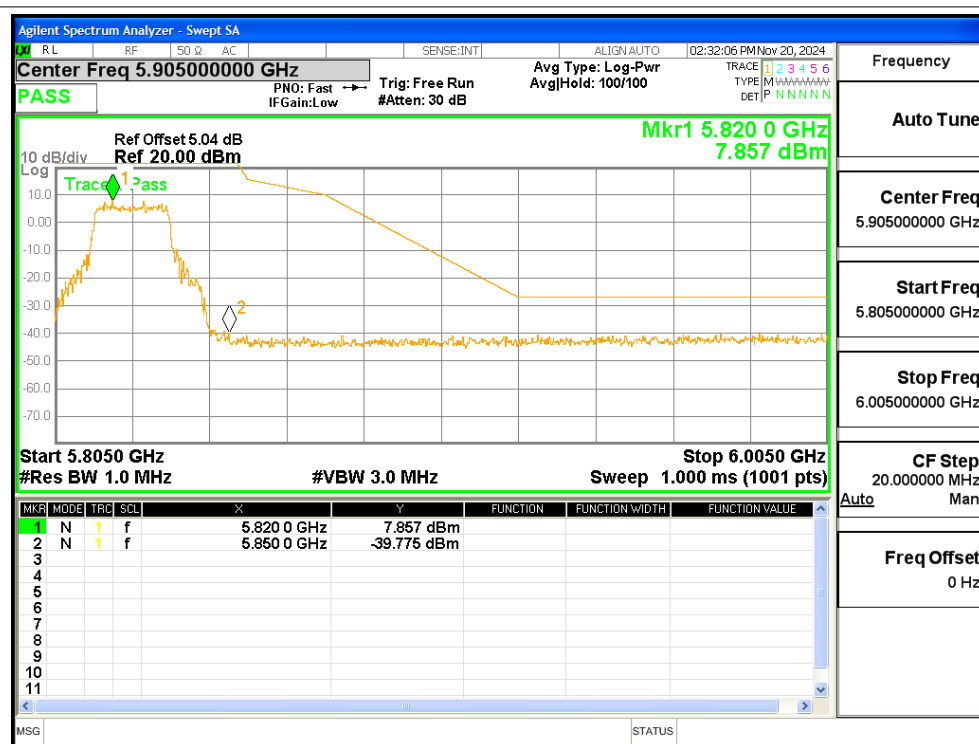
Band Edge NVNT ac40 5795MHz High Ant1



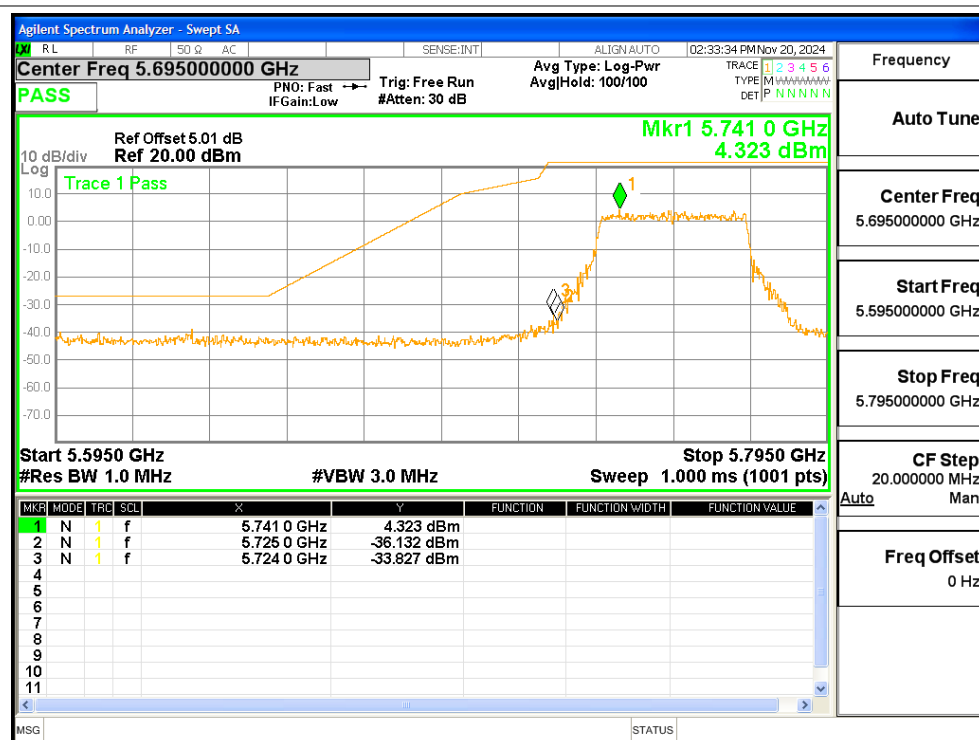
Band Edge NVNT ax20 5745MHz Low Ant1



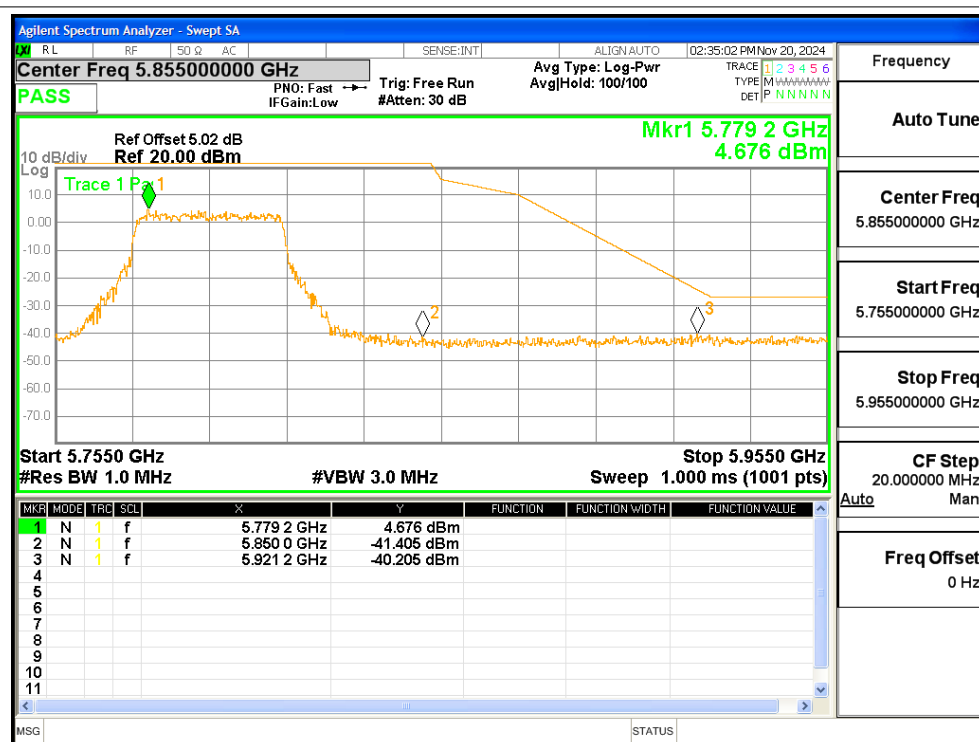
Band Edge NVNT ax20 5825MHz High Ant1



Band Edge NVNT ax40 5755MHz Low Ant1



Band Edge NVNT ax40 5795MHz High Ant1

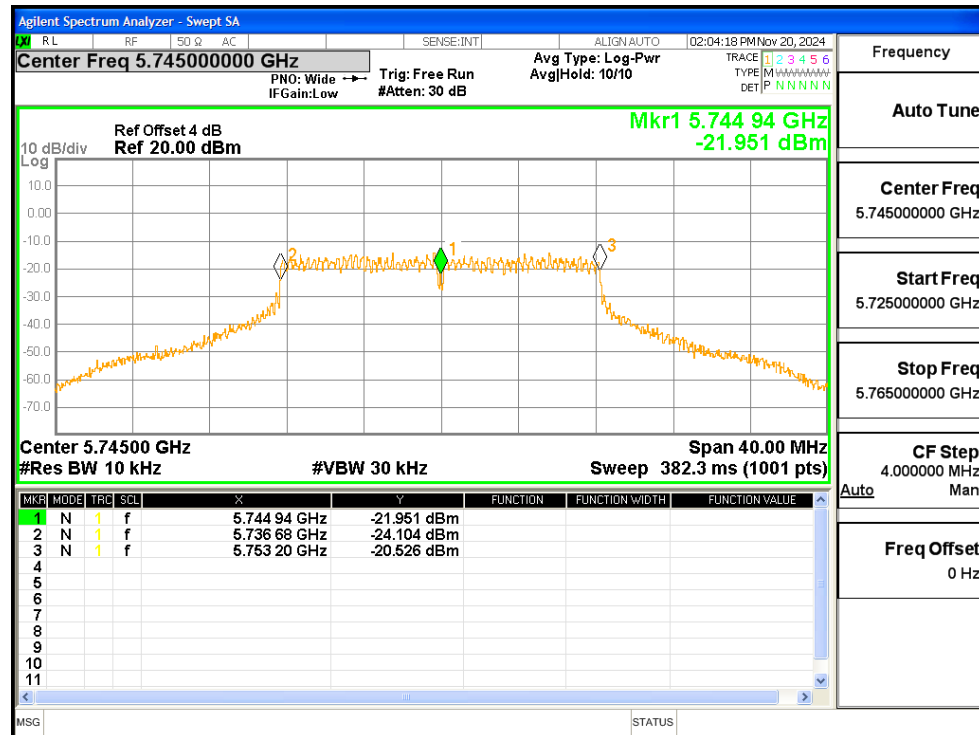


Frequency Stability

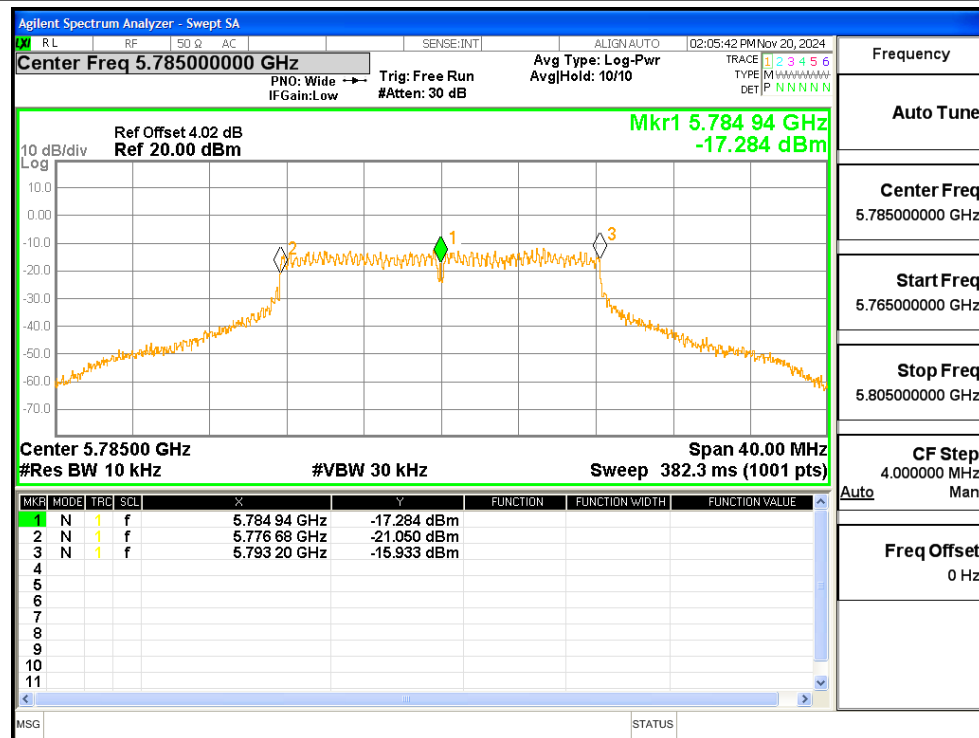
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
		5785		5784.94	-60000	-10.37	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	n20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.98	-20000	-3.46	25	Pass
		5825		5824.94	-60000	-10.3	25	Pass
	n40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ac20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.98	-20000	-3.43	25	Pass
	ac40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ax20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	ax40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass

Test Graphs

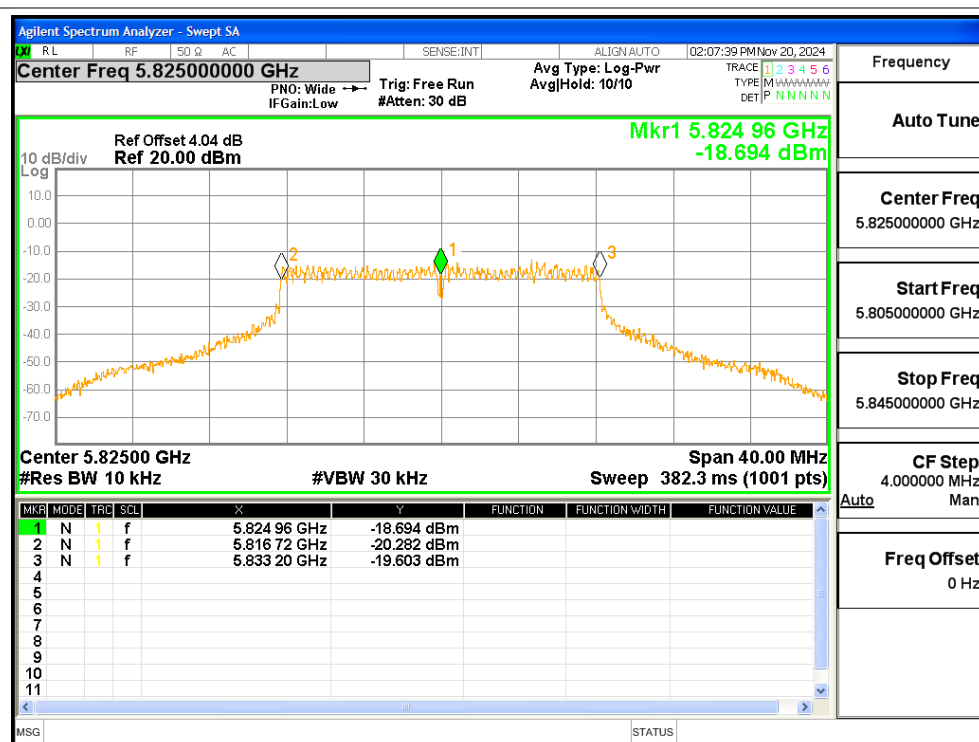
Freq. Stability NVNT a 5745MHz Ant1



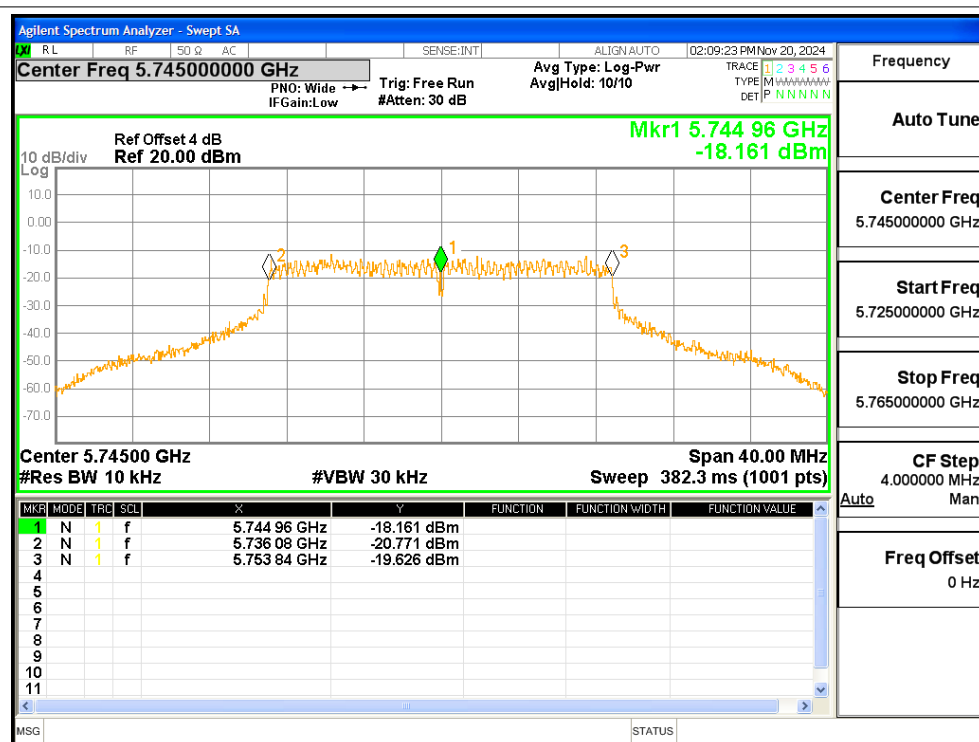
Freq. Stability NVNT a 5785MHz Ant1



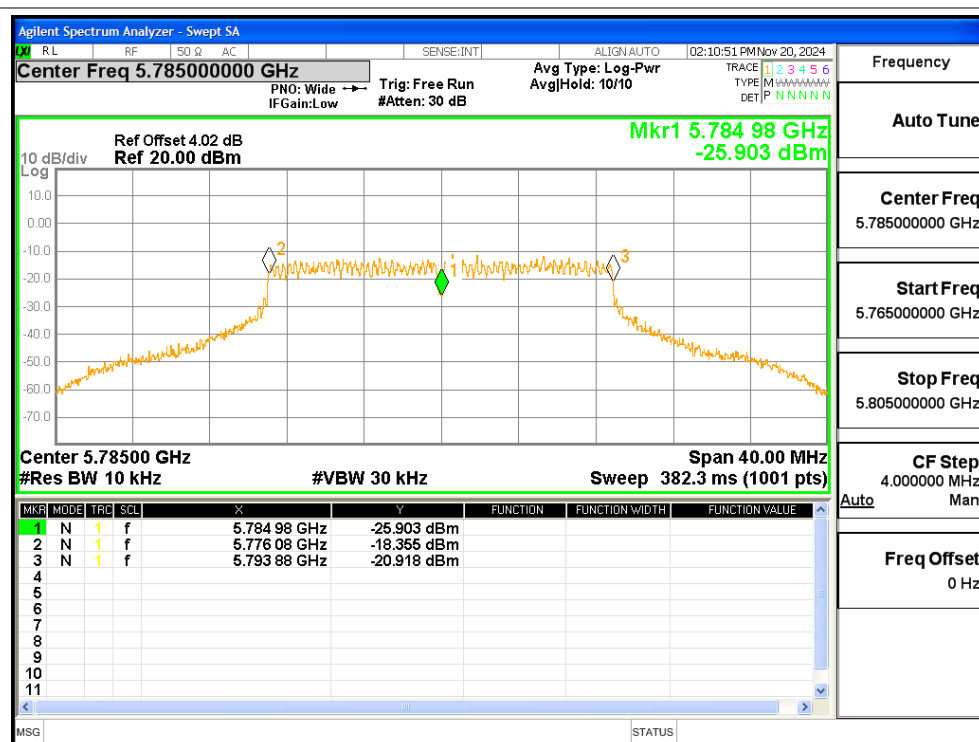
Freq. Stability NVNT a 5825MHz Ant1



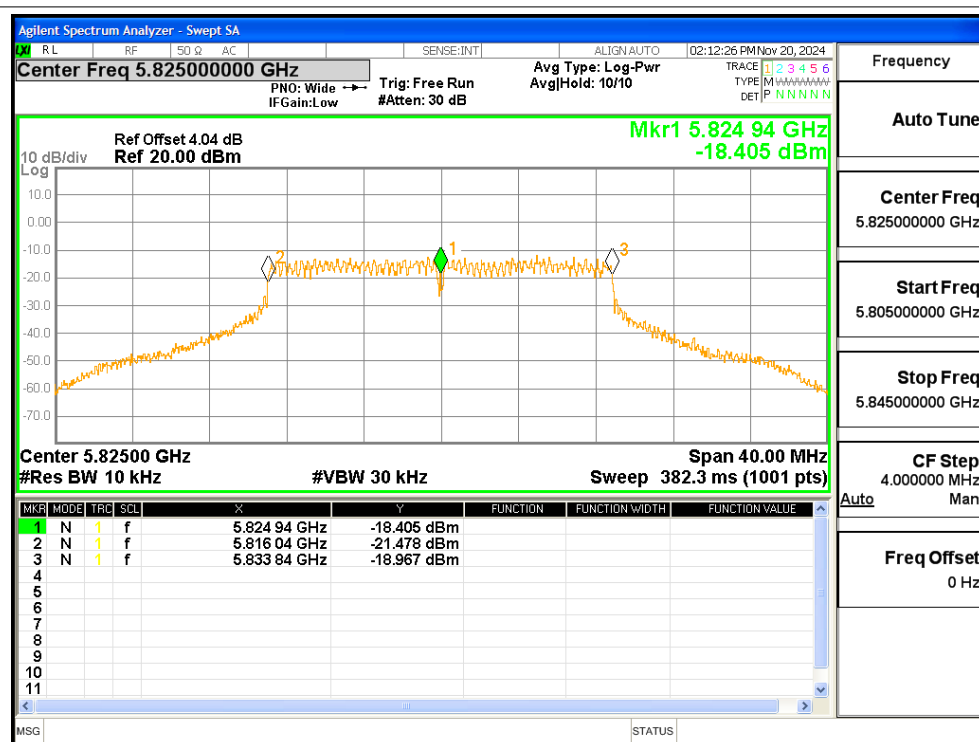
Freq. Stability NVNT n20 5745MHz Ant1



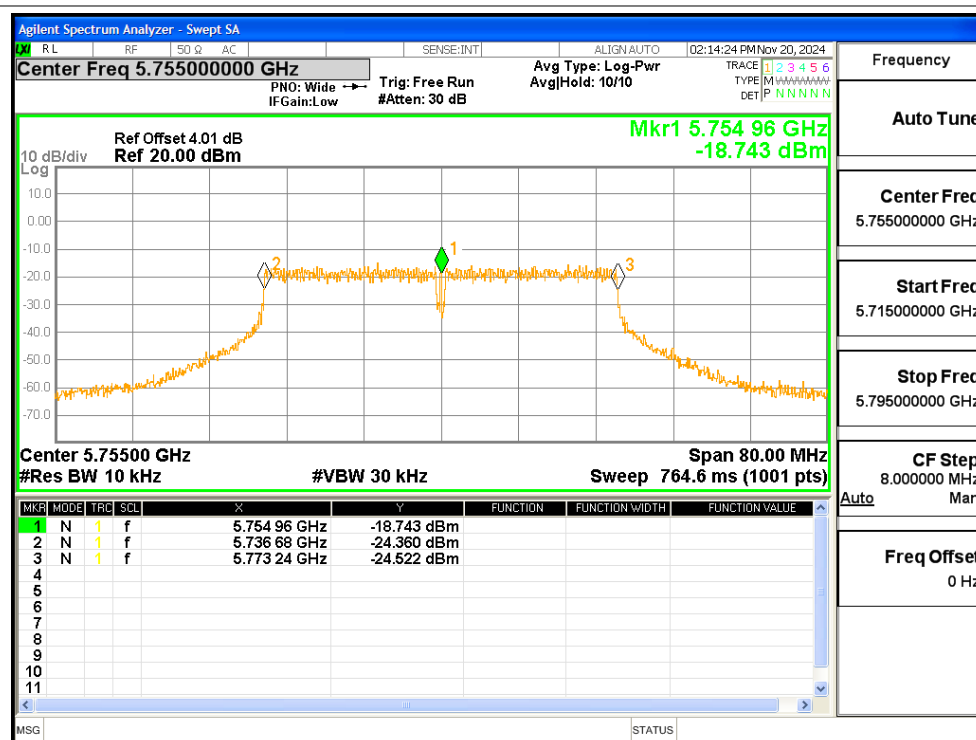
Freq. Stability NVNT n20 5785MHz Ant1



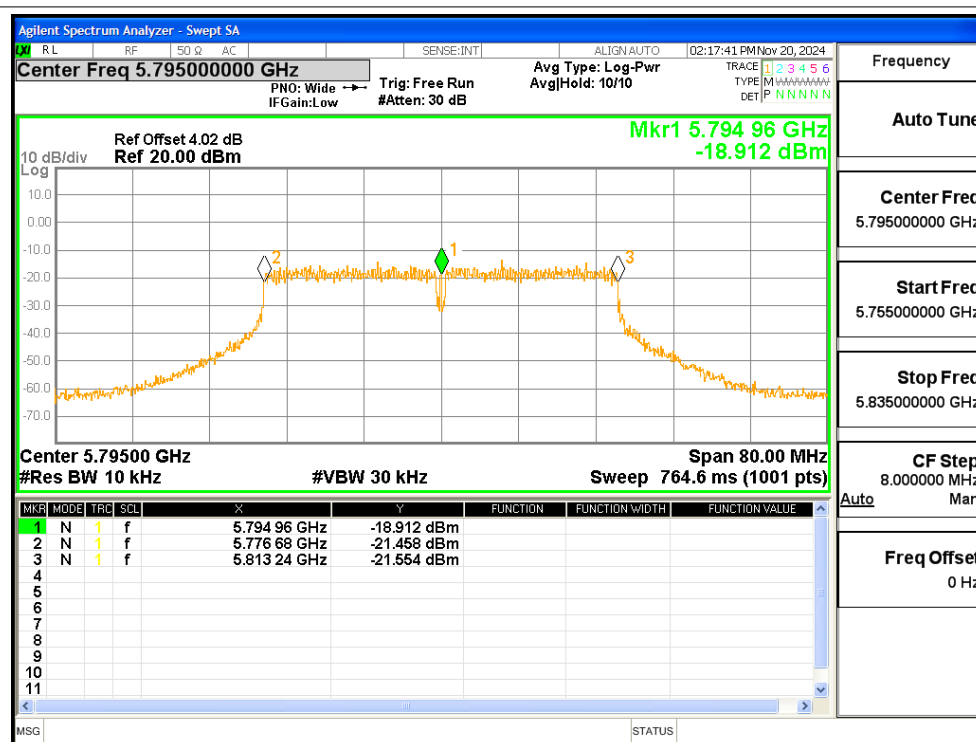
Freq. Stability NVNT n20 5825MHz Ant1



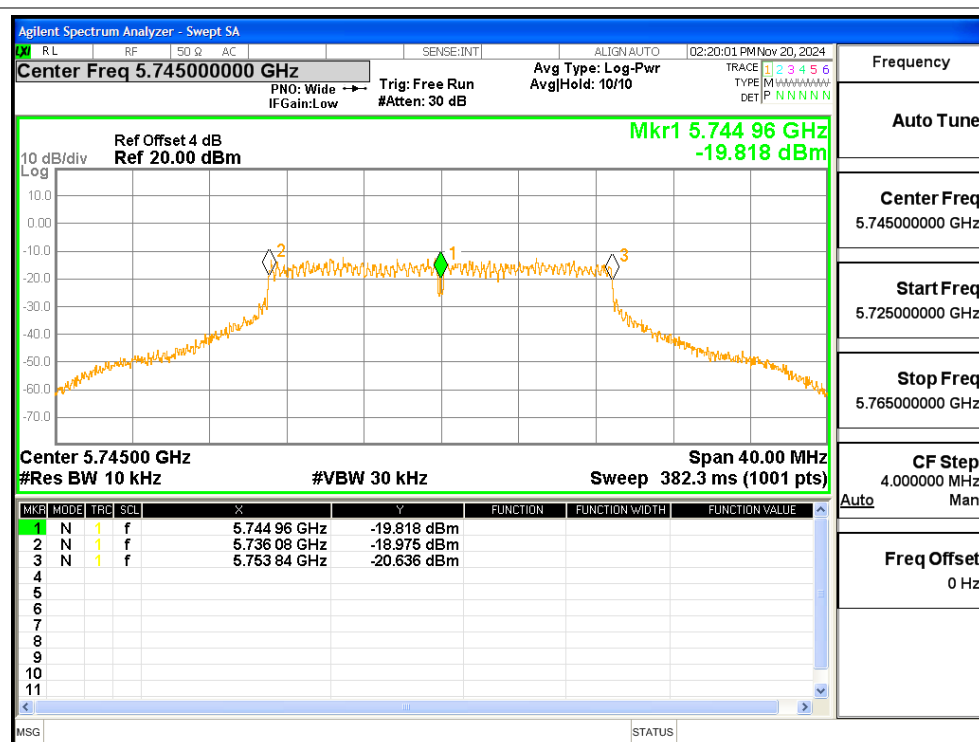
Freq. Stability NVNT n40 5755MHz Ant1



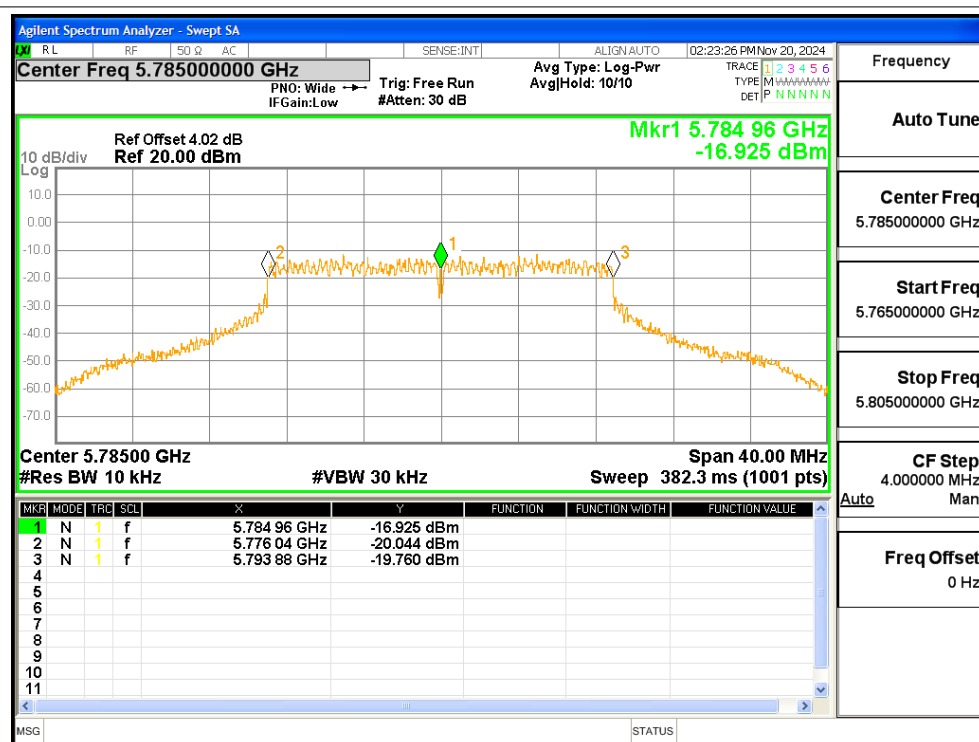
Freq. Stability NVNT n40 5795MHz Ant1



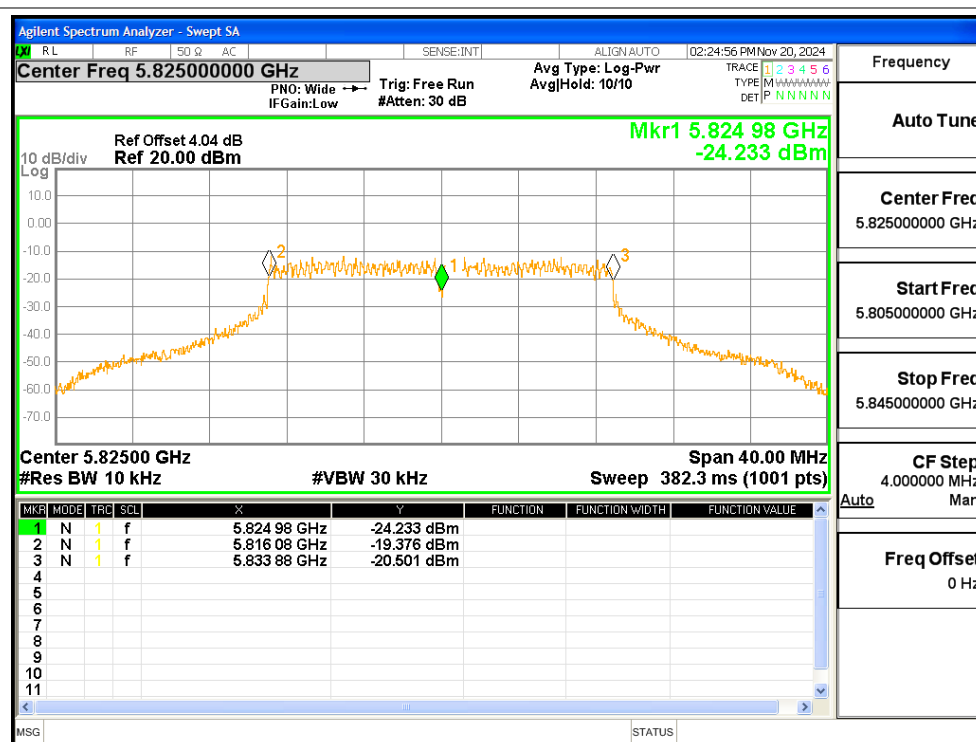
Freq. Stability NVNT ac20 5745MHz Ant1



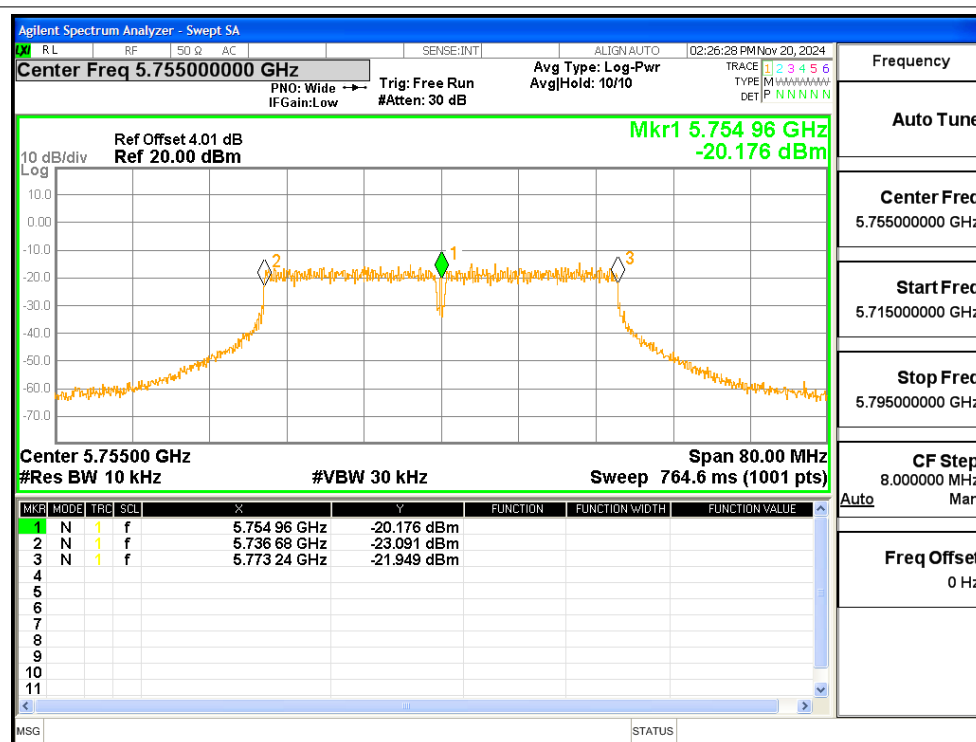
Freq. Stability NVNT ac20 5785MHz Ant1



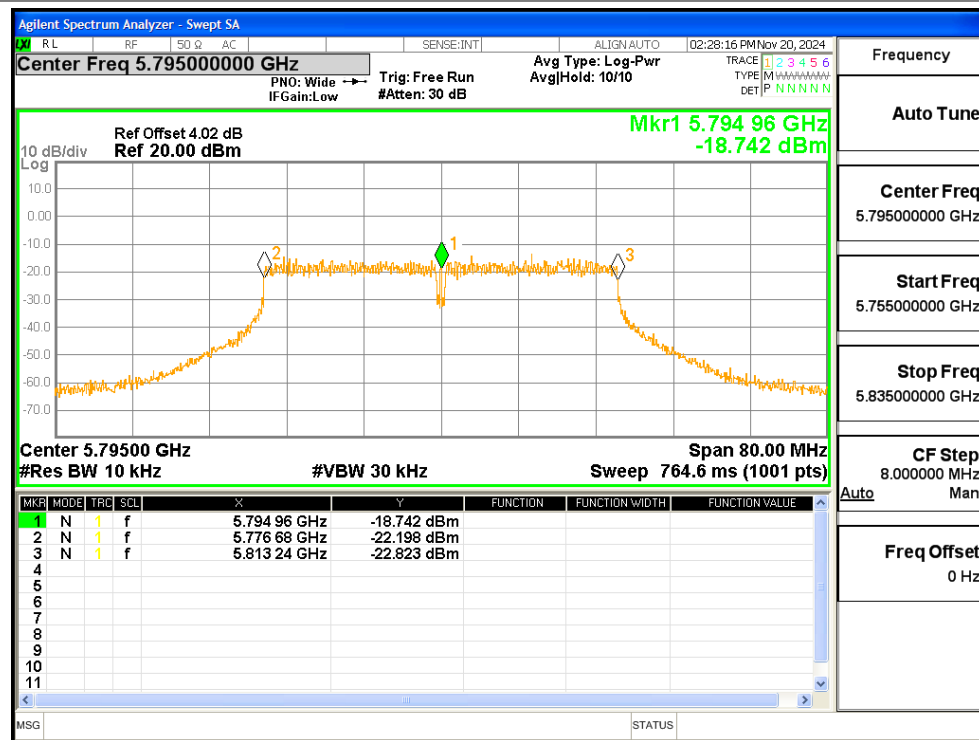
Freq. Stability NVNT ac20 5825MHz Ant1



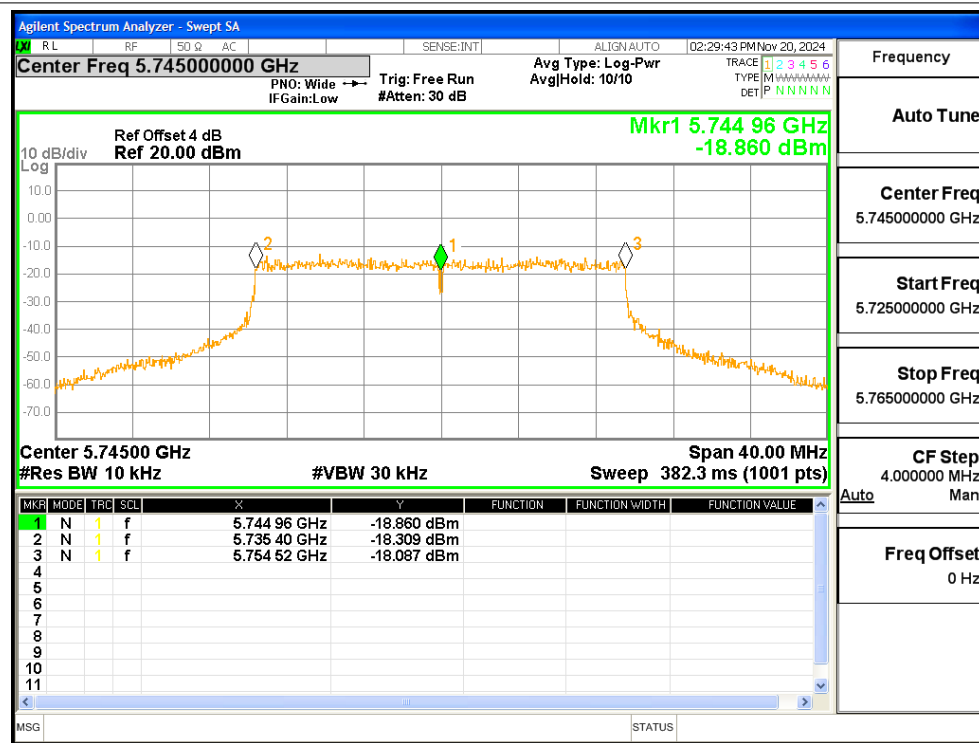
Freq. Stability NVNT ac40 5755MHz Ant1



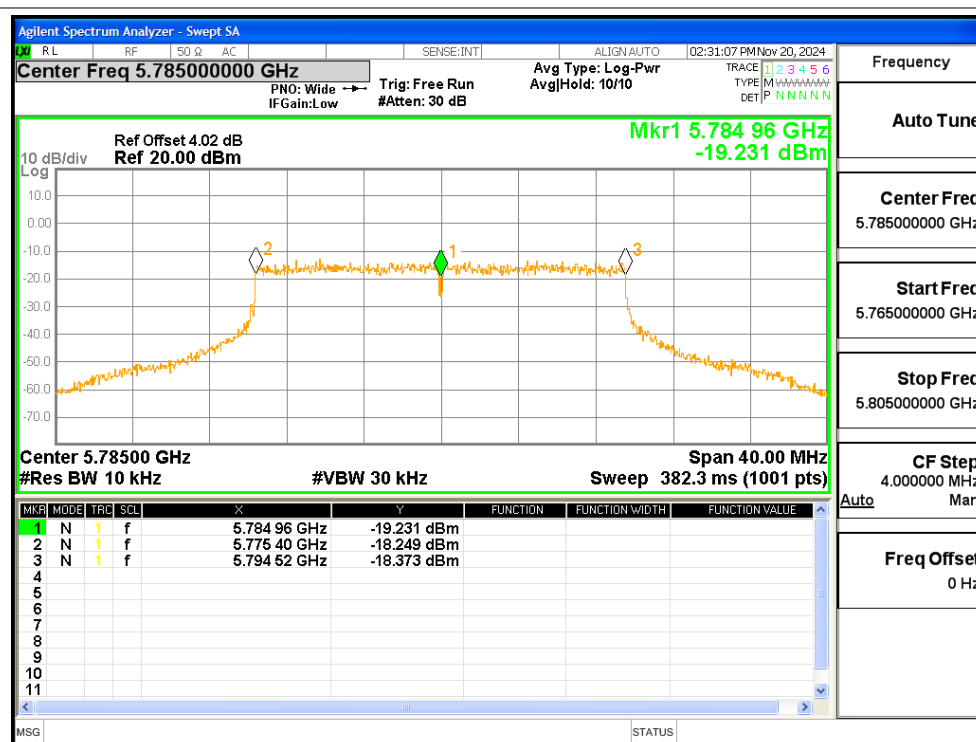
Freq. Stability NVNT ac40 5795MHz Ant1



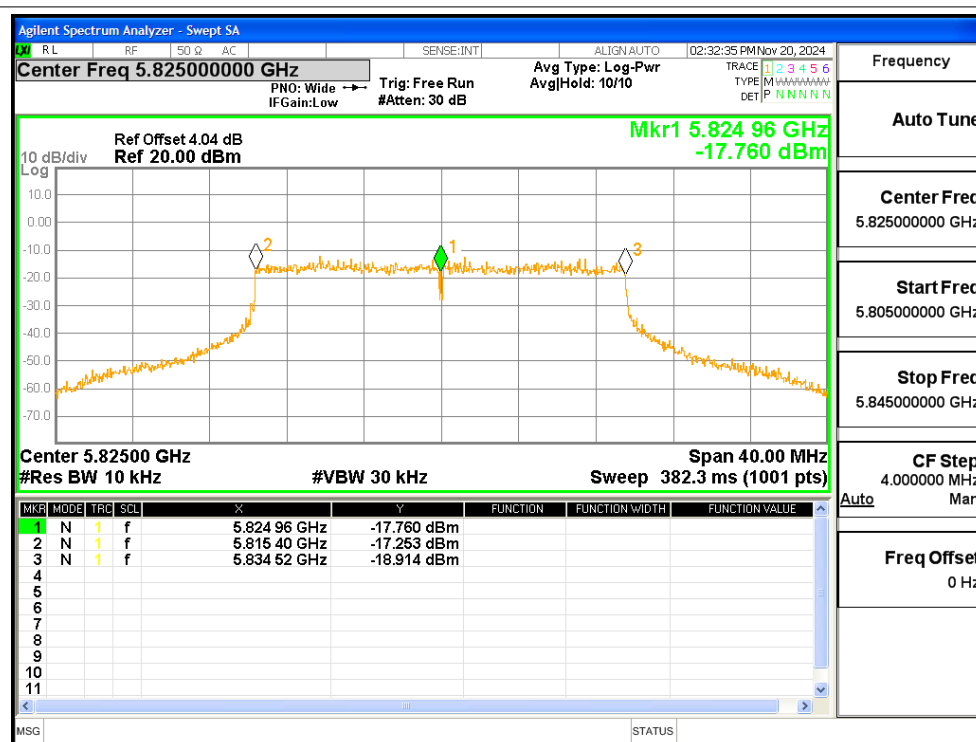
Freq. Stability NVNT ax20 5745MHz Ant1



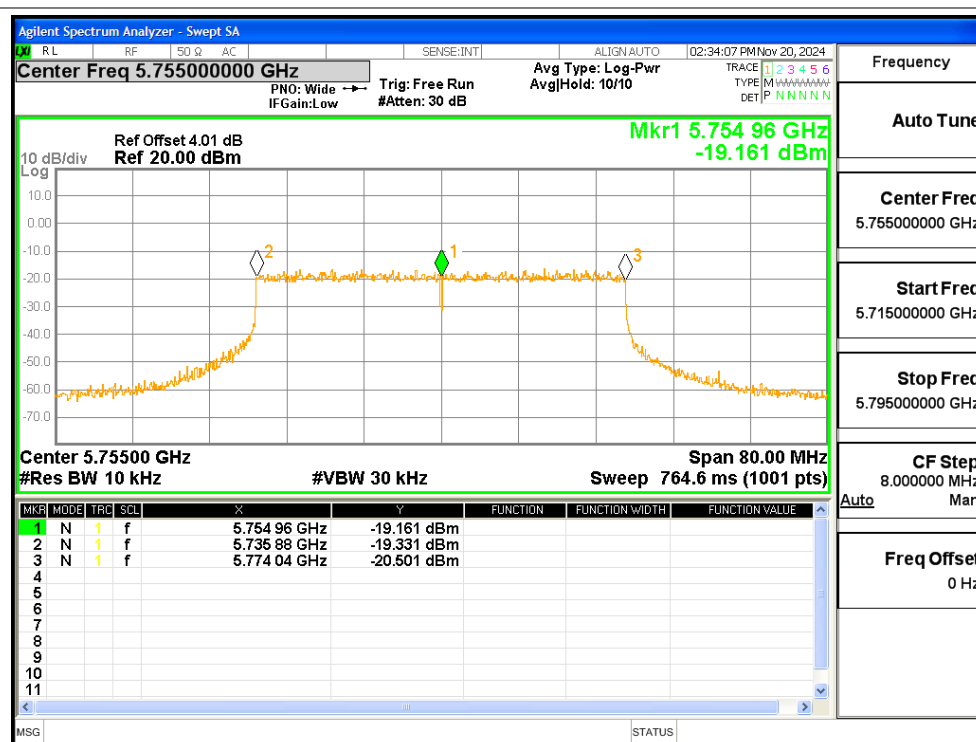
Freq. Stability NVNT ax20 5785MHz Ant1



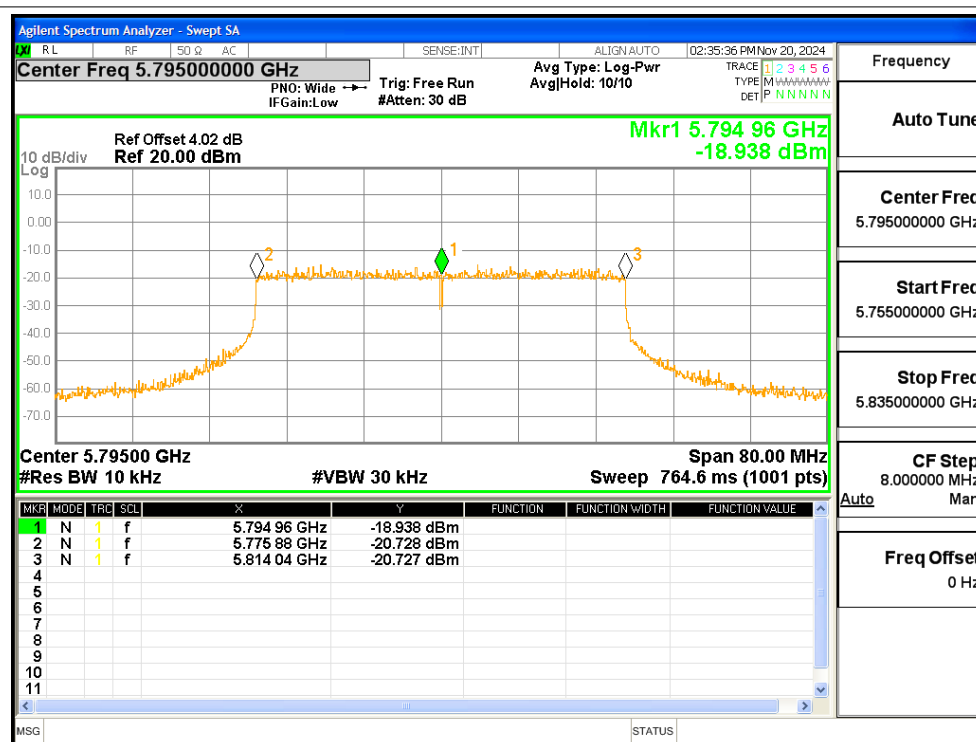
Freq. Stability NVNT ax20 5825MHz Ant1



Freq. Stability NVNT ax40 5755MHz Ant1



Freq. Stability NVNT ax40 5795MHz Ant1



Conducted RF Spurious Emission

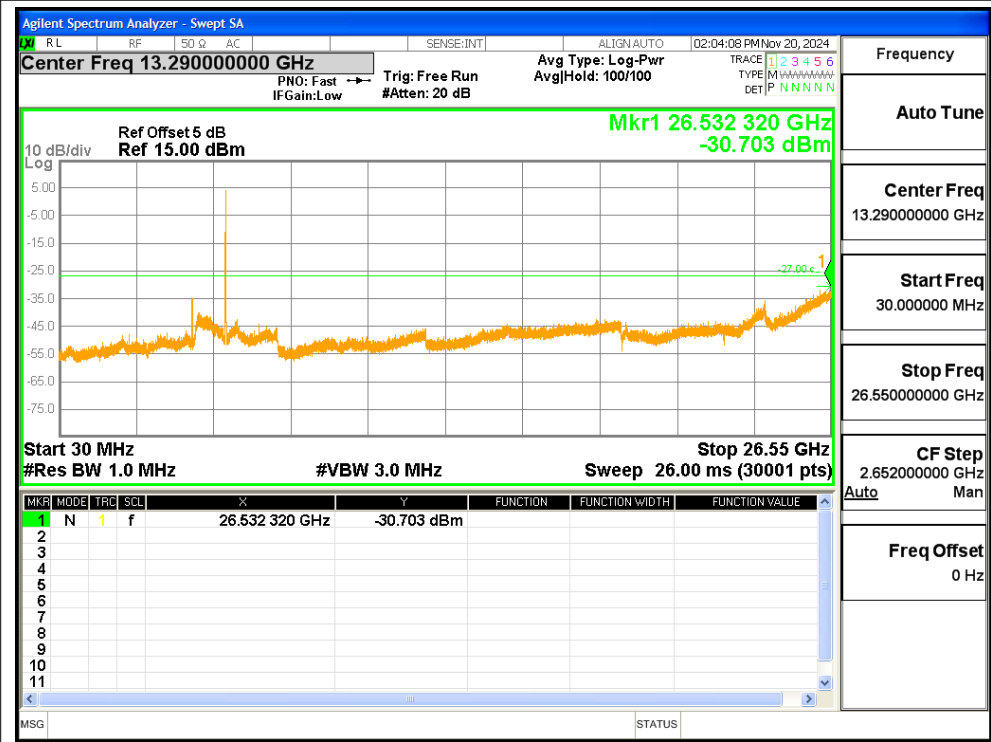
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-30.7	-27	Pass
		5785		-31.4	-27	Pass
		5825		-30.95	-27	Pass
	n20	5745		-30.9	-27	Pass
		5785		-30.08	-27	Pass
		5825		-30.51	-27	Pass
	n40	5755		-30.57	-27	Pass
		5795		-31.26	-27	Pass
	ac20	5745		-31.24	-27	Pass
		5785		-30.33	-27	Pass
		5825		-31.46	-27	Pass
	ac40	5755		-31.26	-27	Pass
		5795		-31.44	-27	Pass
	ax20	5745		-30.49	-27	Pass
		5785		-30.24	-27	Pass
		5825		-30.74	-27	Pass
	ax40	5755		-30.64	-27	Pass
		5795		-30.87	-27	Pass

Note:1. The antenna gain is compensated in the test data.

2. 26.5GHz-40GHz the Spurious level margin is the largest, so the test data only reflects 30MHz-26.5GHz

Test Graphs

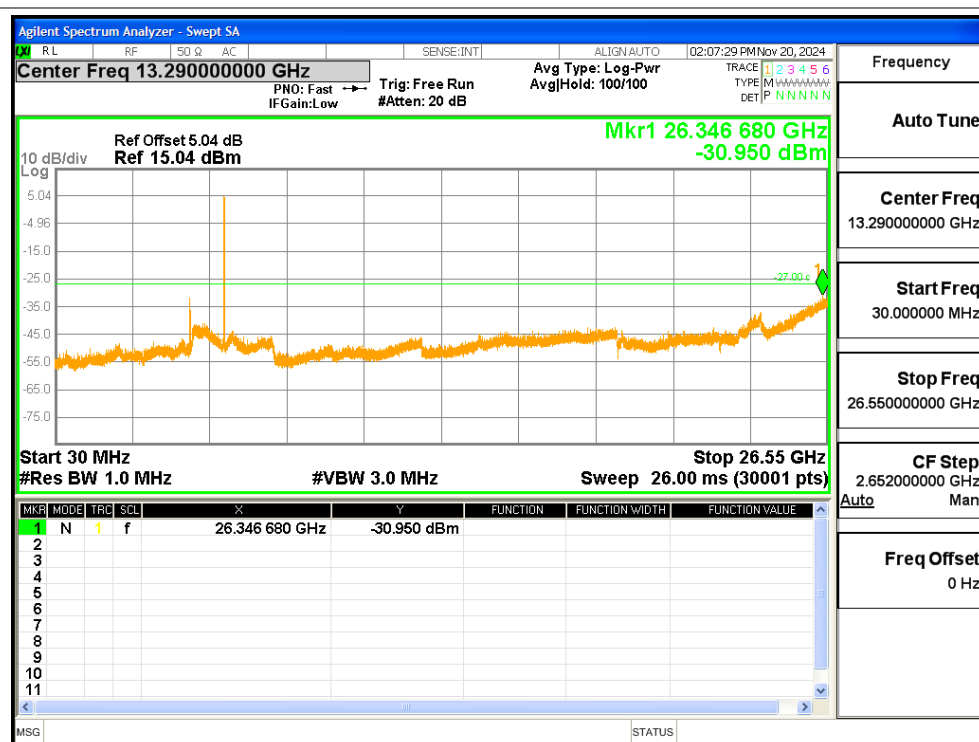
Tx. Spurious NVNT a 5745MHz Ant1 Emission



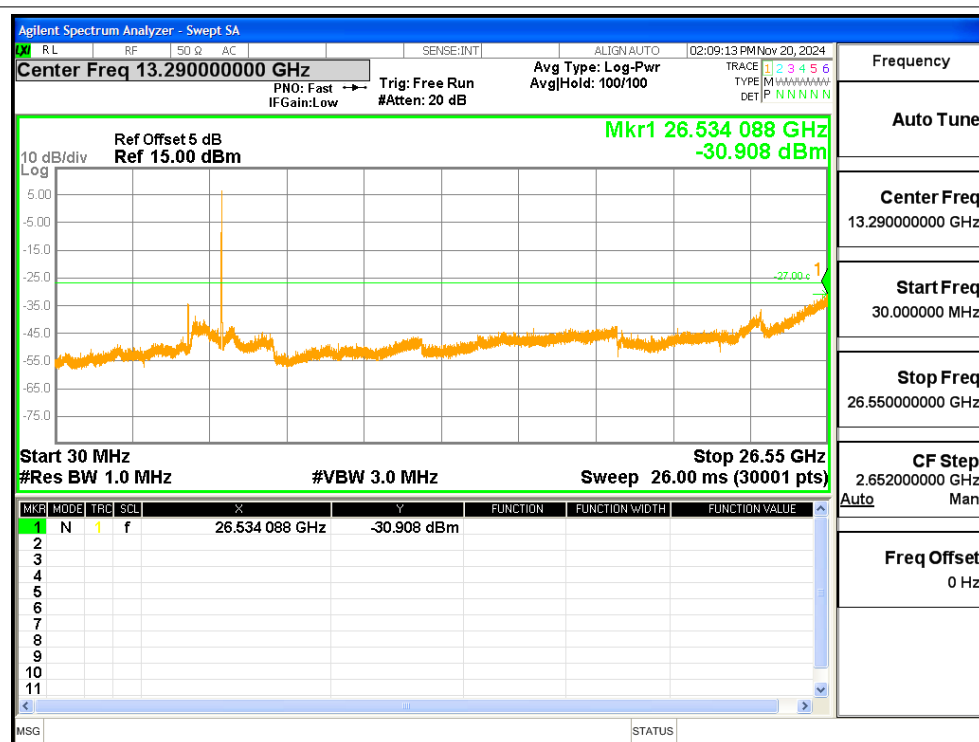
Tx. Spurious NVNT a 5785MHz Ant1 Emission



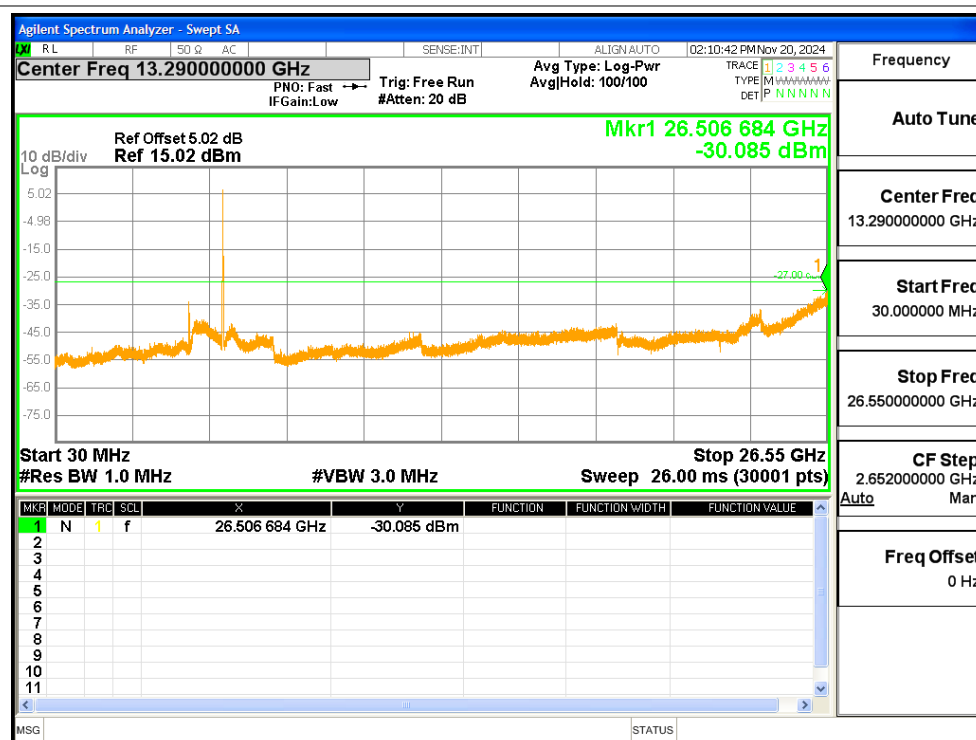
Tx. Spurious NVNT a 5825MHz Ant1 Emission



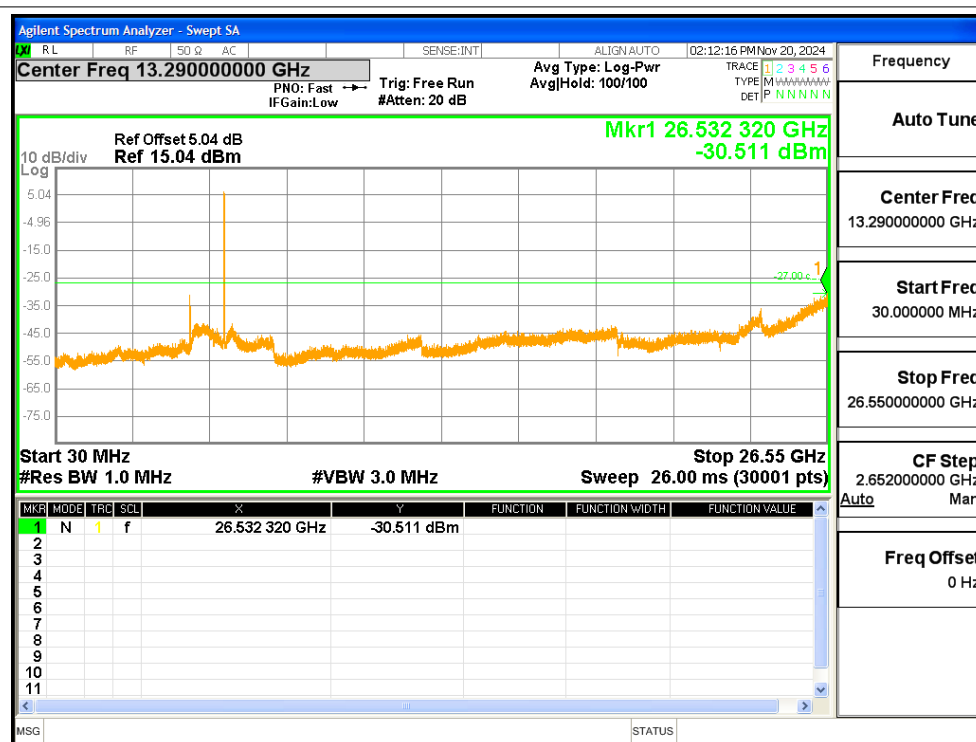
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



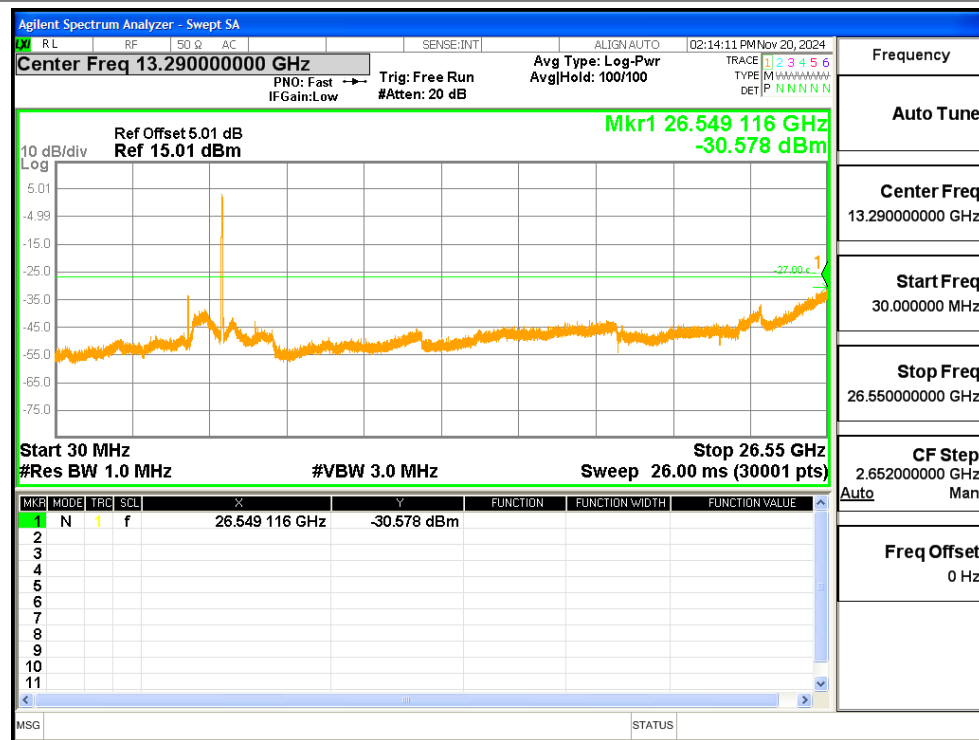
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



Tx. Spurious NVNT n20 5825MHz Ant1 Emission



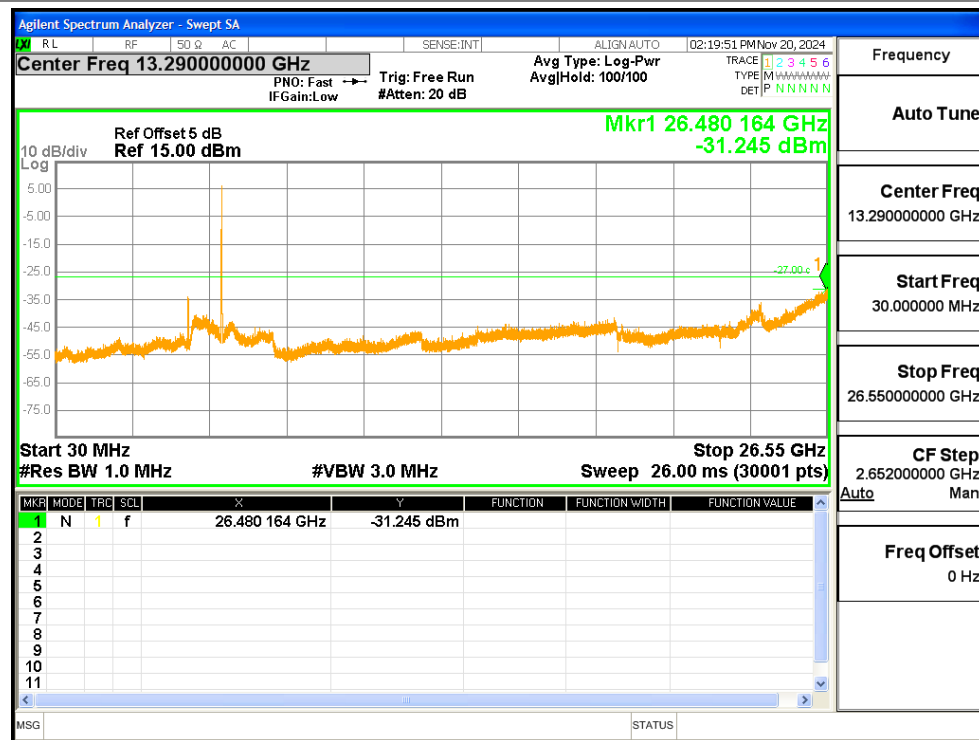
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



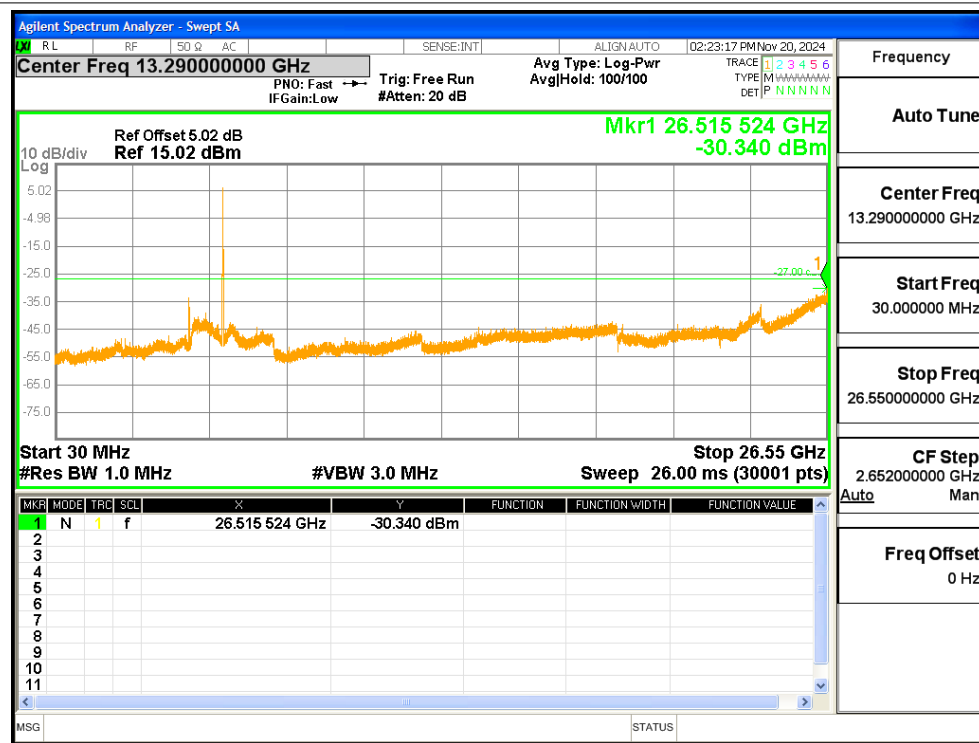
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



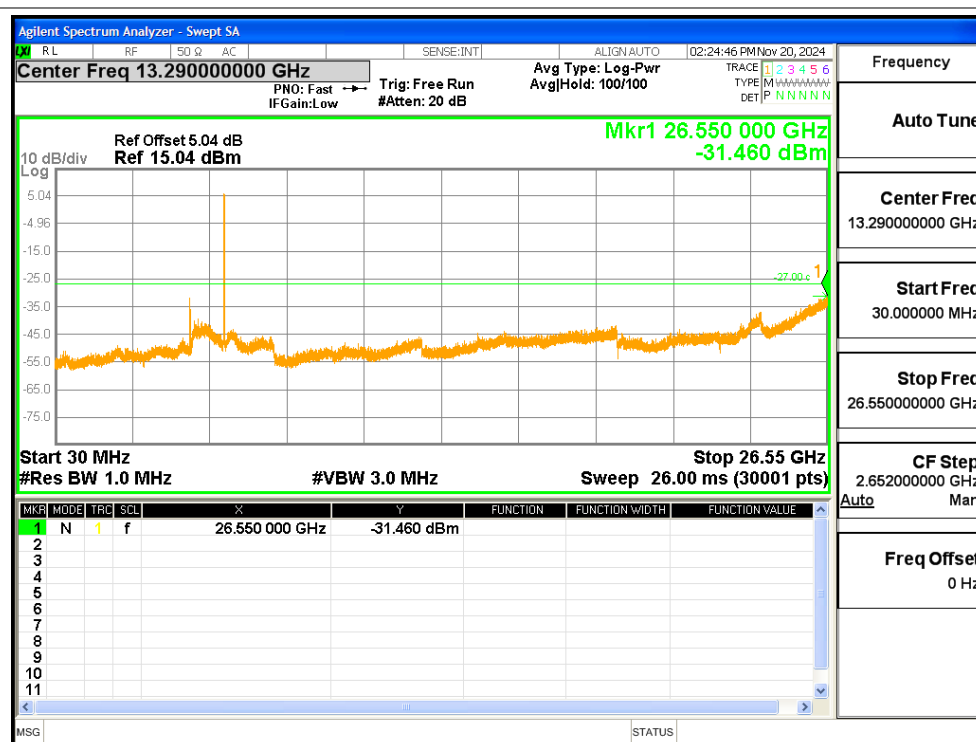
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



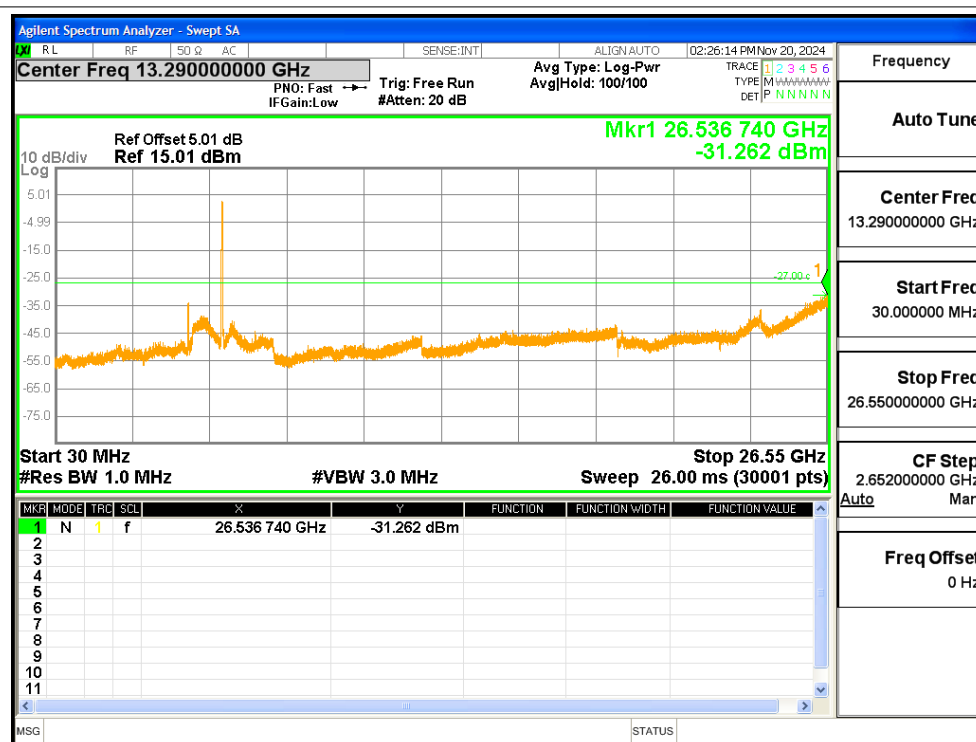
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



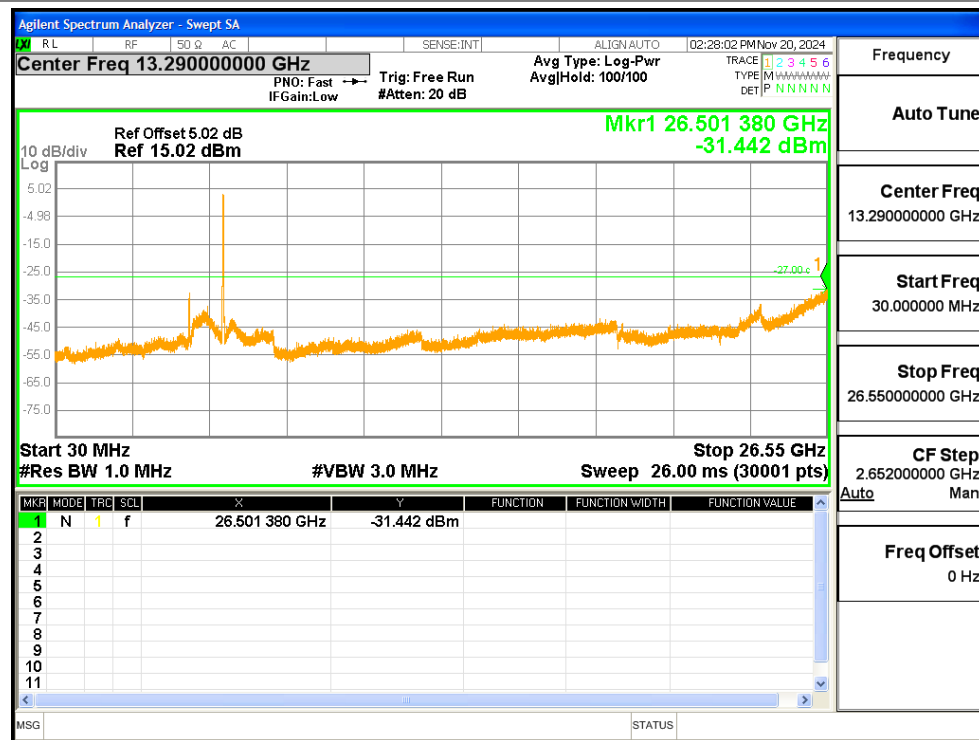
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



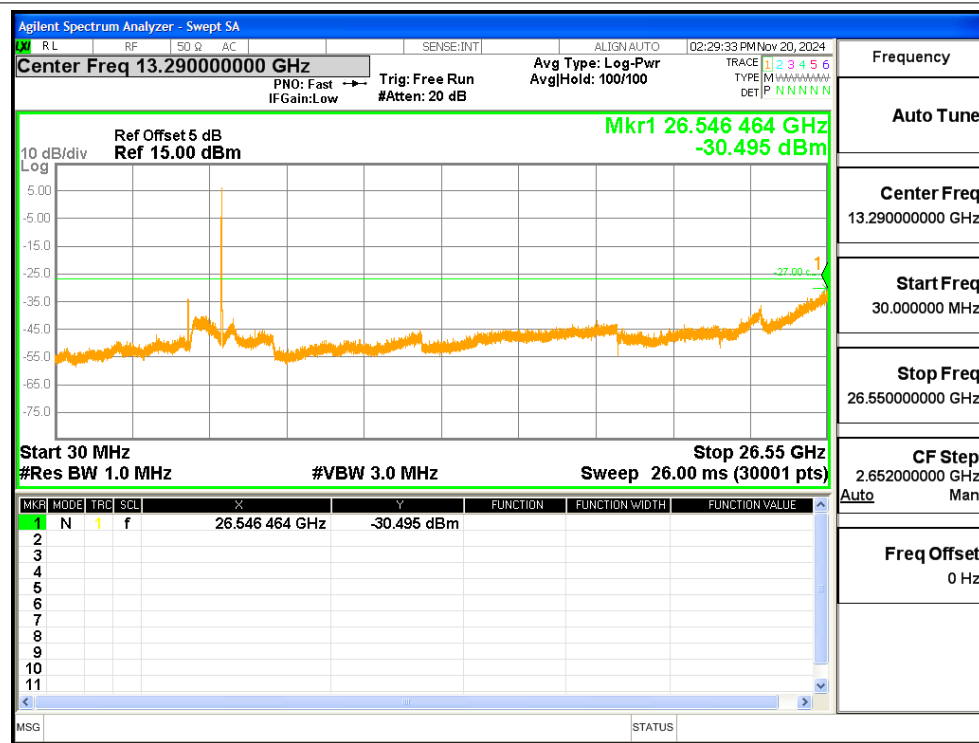
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



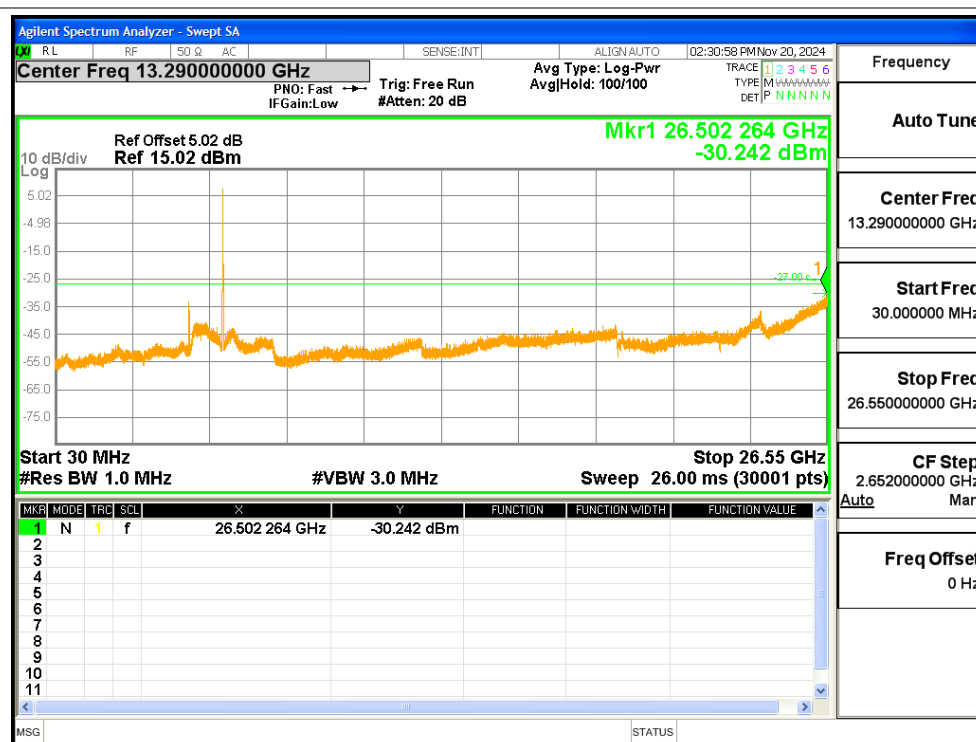
Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



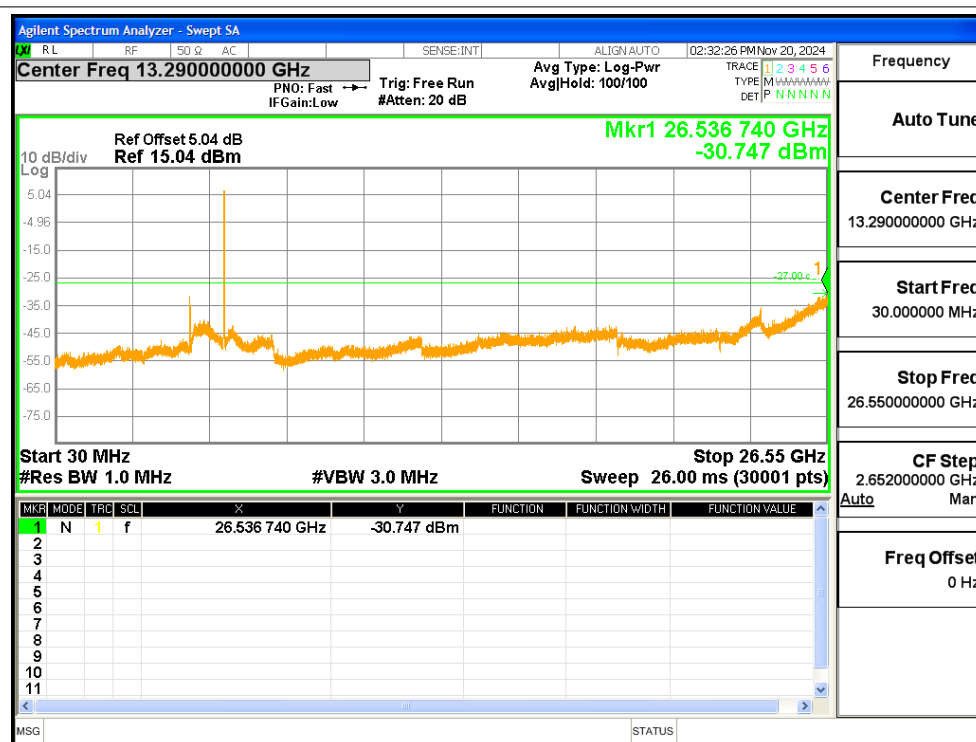
Tx. Spurious NVNT ax20 5745MHz Ant1 Emission



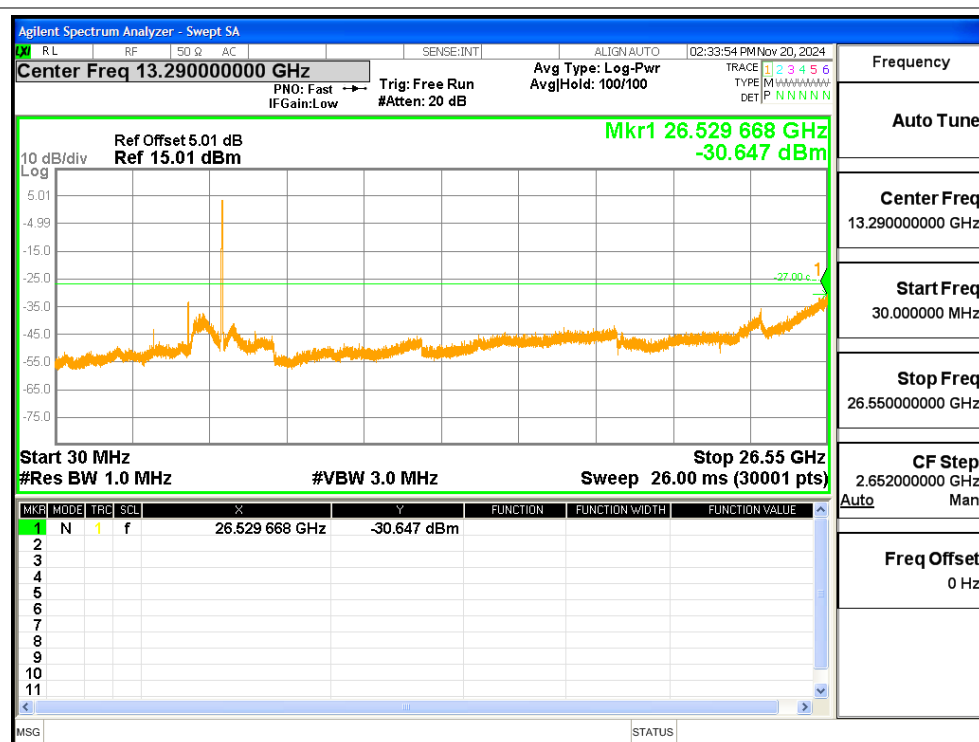
Tx. Spurious NVNT ax20 5785MHz Ant1 Emission



Tx. Spurious NVNT ax20 5825MHz Ant1 Emission



Tx. Spurious NVNT ax40 5755MHz Ant1 Emission



Tx. Spurious NVNT ax40 5795MHz Ant1 Emission

