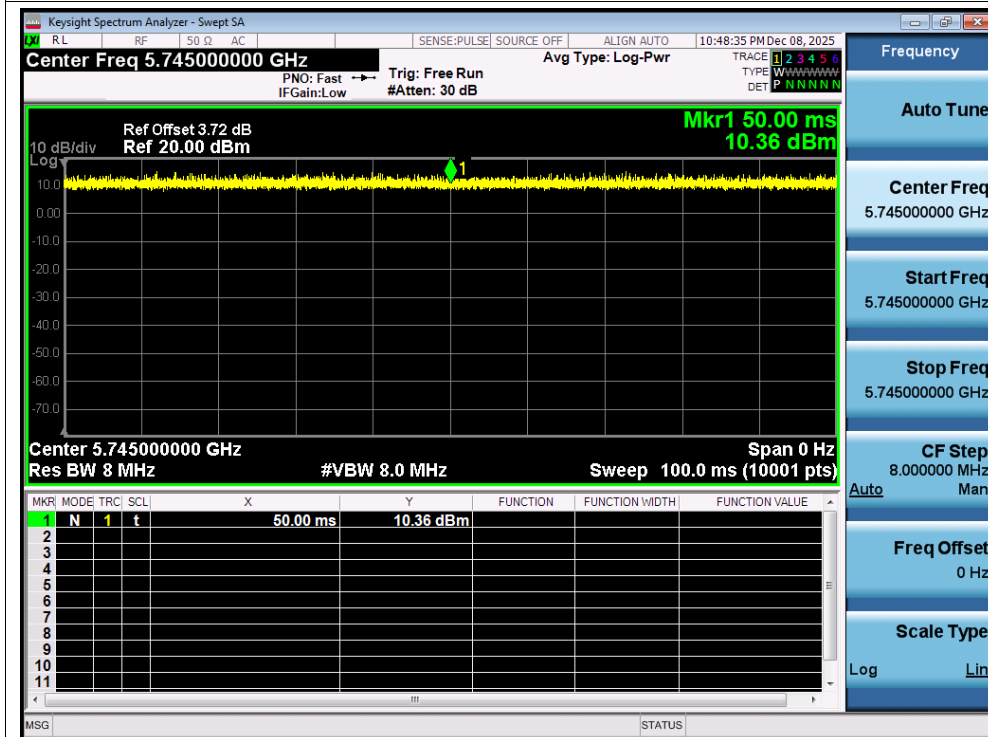
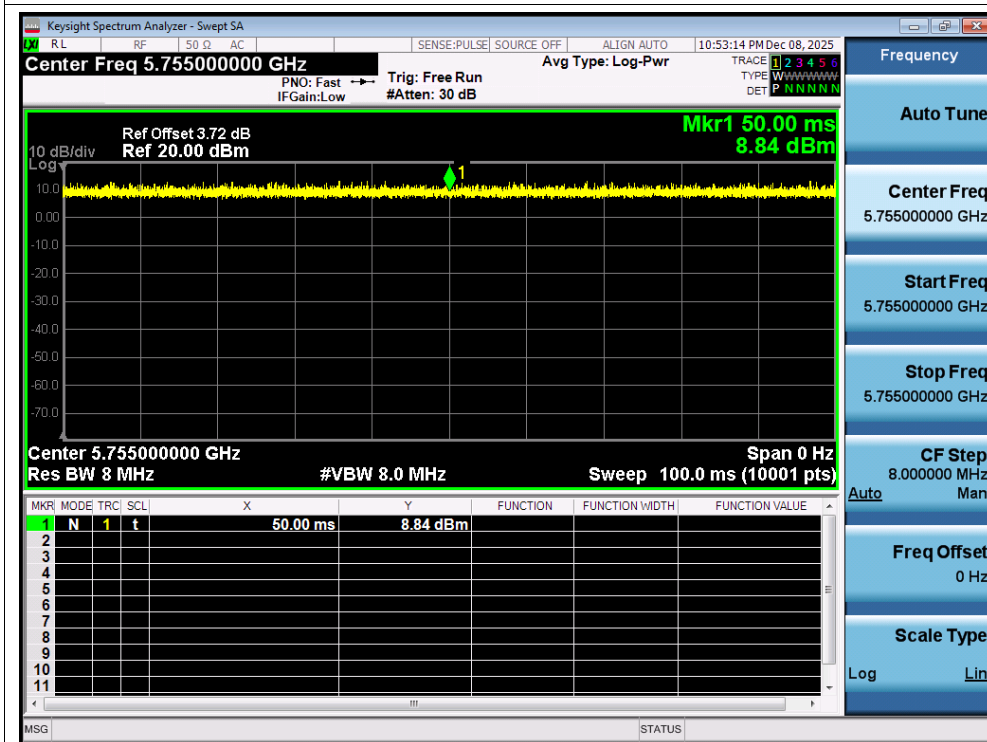


Duty Cycle

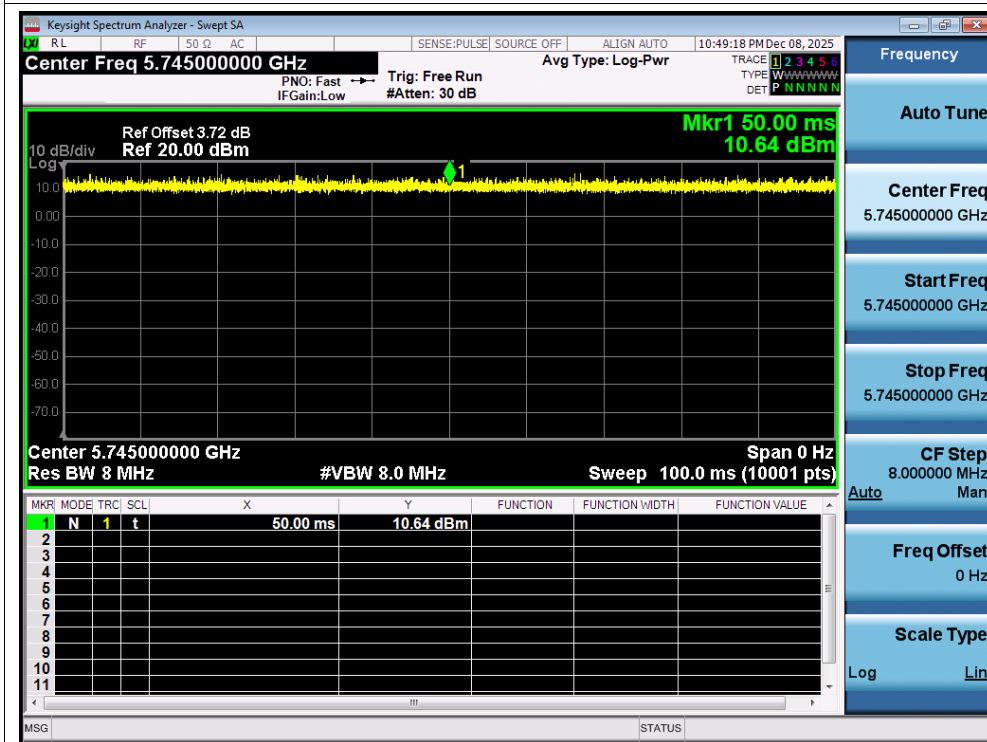
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant B	100	0
NVNT	n20	5745	Ant B	100	0
NVNT	n40	5755	Ant B	100	0
NVNT	ac20	5745	Ant B	100	0
NVNT	ac40	5755	Ant B	100	0
NVNT	ac80	5775	Ant B	100	0
NVNT	ax20	5745	Ant B	100	0
NVNT	ax40	5755	Ant B	100	0
NVNT	ax80	5775	Ant B	100	0



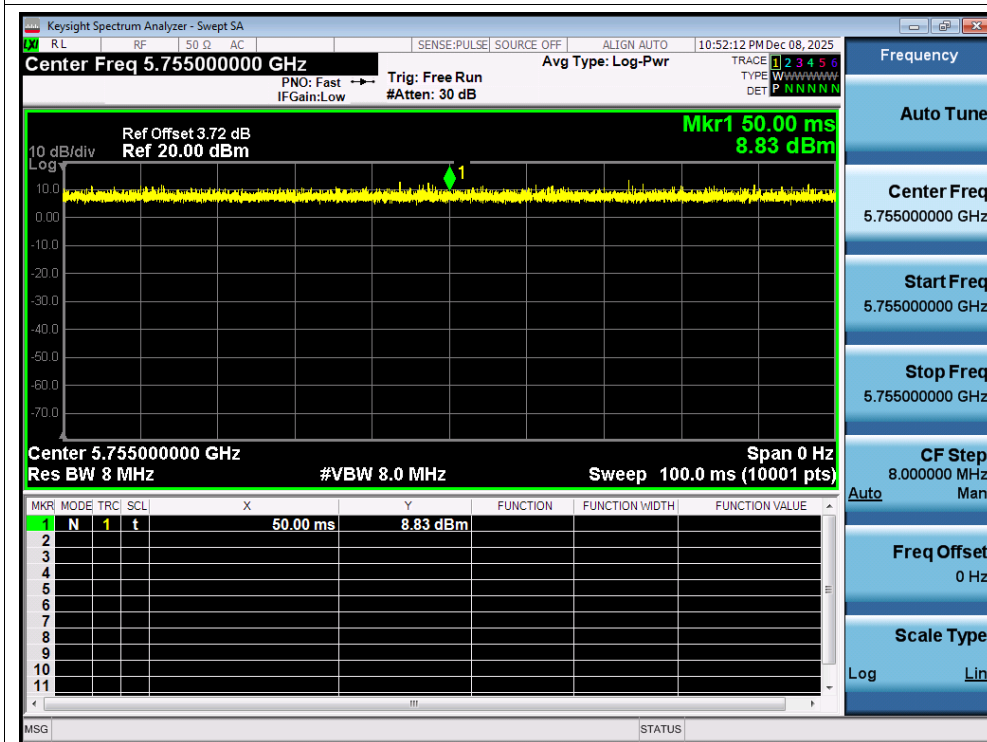
Duty Cycle NVNT n40 5755MHz Ant B



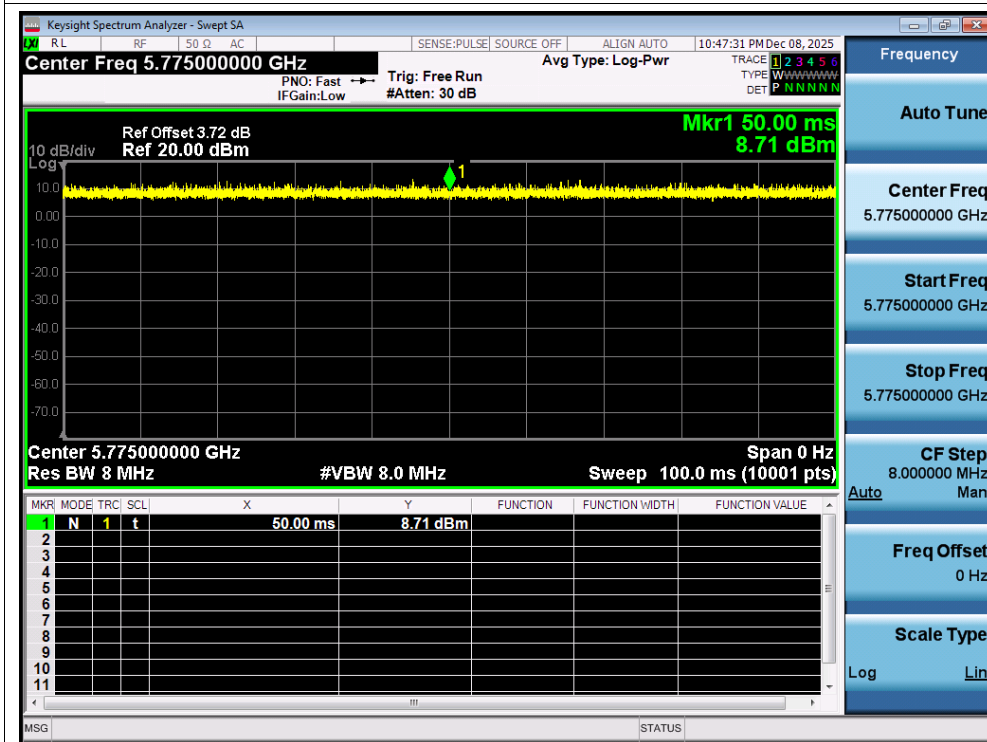
Duty Cycle NVNT ac20 5745MHz Ant B



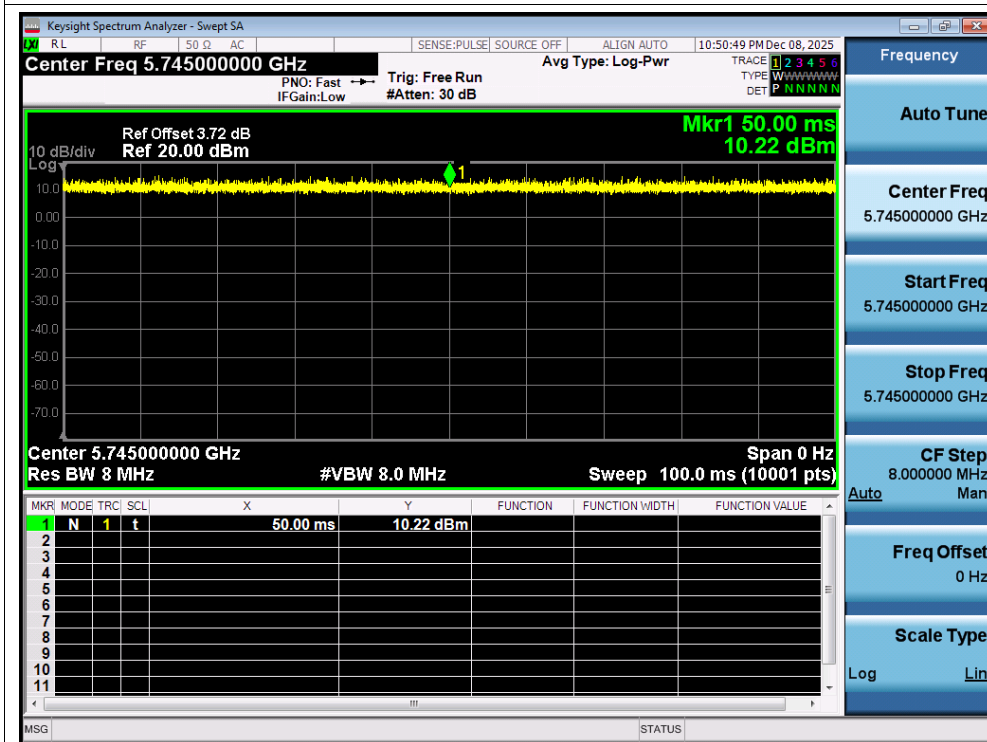
Duty Cycle NVNT ac40 5755MHz Ant B



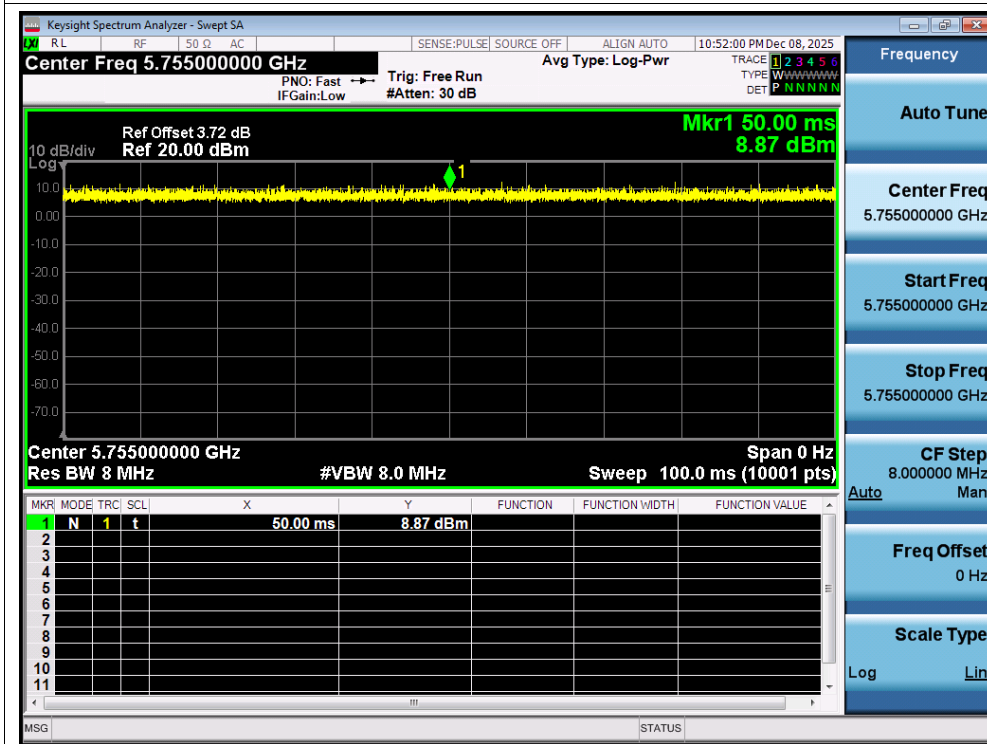
Duty Cycle NVNT ac80 5775MHz Ant B

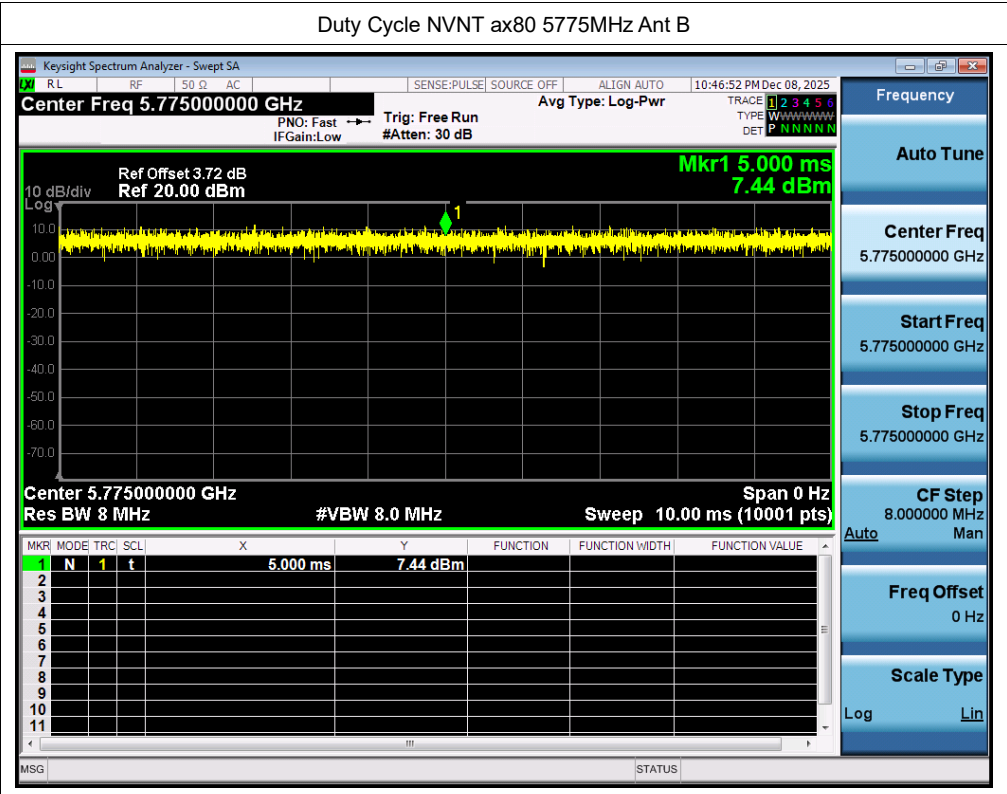


Duty Cycle NVNT ax20 5745MHz Ant B



Duty Cycle NVNT ax40 5755MHz Ant B





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant B	11.73	30	Pass
NVNT	a	5785	Ant B	11.92	30	Pass
NVNT	a	5825	Ant B	11.64	30	Pass
NVNT	n20	5745	Ant B	10.47	30	Pass
NVNT	n20	5785	Ant B	11.42	30	Pass
NVNT	n20	5825	Ant B	11.32	30	Pass
NVNT	n40	5755	Ant B	9.09	30	Pass
NVNT	n40	5795	Ant B	9.64	30	Pass
NVNT	ac20	5745	Ant B	10.94	30	Pass
NVNT	ac20	5785	Ant B	11.53	30	Pass
NVNT	ac20	5825	Ant B	10.7	30	Pass
NVNT	ac40	5755	Ant B	9.71	30	Pass
NVNT	ac40	5795	Ant B	9.99	30	Pass
NVNT	ac80	5775	Ant B	9.14	30	Pass
NVNT	ax20	5745	Ant B	10.99	30	Pass
NVNT	ax20	5785	Ant B	11.4	30	Pass
NVNT	ax20	5825	Ant B	10.4	30	Pass
NVNT	ax40	5755	Ant B	9.09	30	Pass
NVNT	ax40	5795	Ant B	10.17	30	Pass
NVNT	ax80	5775	Ant B	8.4	30	Pass

Condition	Mode	Frequency (MHz)	Ant A Conducted Power (dBm)	Ant B Conducted Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	12.18	11.73	/	30	Pass
NVNT	a	5785	12.87	11.92	/	30	Pass
NVNT	a	5825	12.64	11.64	/	30	Pass
NVNT	n20	5745	11.14	10.47	13.83	30	Pass
NVNT	n20	5785	11.8	11.42	14.62	30	Pass
NVNT	n20	5825	11.76	11.32	14.56	30	Pass
NVNT	n40	5755	9.59	9.09	12.36	30	Pass
NVNT	n40	5795	10.02	9.64	12.84	30	Pass
NVNT	ac20	5745	10.87	10.94	13.92	30	Pass
NVNT	ac20	5785	11.4	11.53	14.48	30	Pass
NVNT	ac20	5825	11.06	10.7	13.89	30	Pass
NVNT	ac40	5755	9.55	9.71	12.64	30	Pass
NVNT	ac40	5795	10.22	9.99	13.12	30	Pass
NVNT	ac80	5775	8.91	9.14	12.04	30	Pass
NVNT	ax20	5745	10.94	10.99	13.98	30	Pass
NVNT	ax20	5785	11.41	11.4	14.42	30	Pass
NVNT	ax20	5825	11.58	10.4	14.04	30	Pass
NVNT	ax40	5755	9.84	9.09	12.49	30	Pass
NVNT	ax40	5795	9.58	10.17	12.90	30	Pass
NVNT	ax80	5775	8.57	8.4	11.50	30	Pass

Note:

Antenna A gain: 3.05 dBi, Antenna B gain: 3.27dBi

For power measurements,

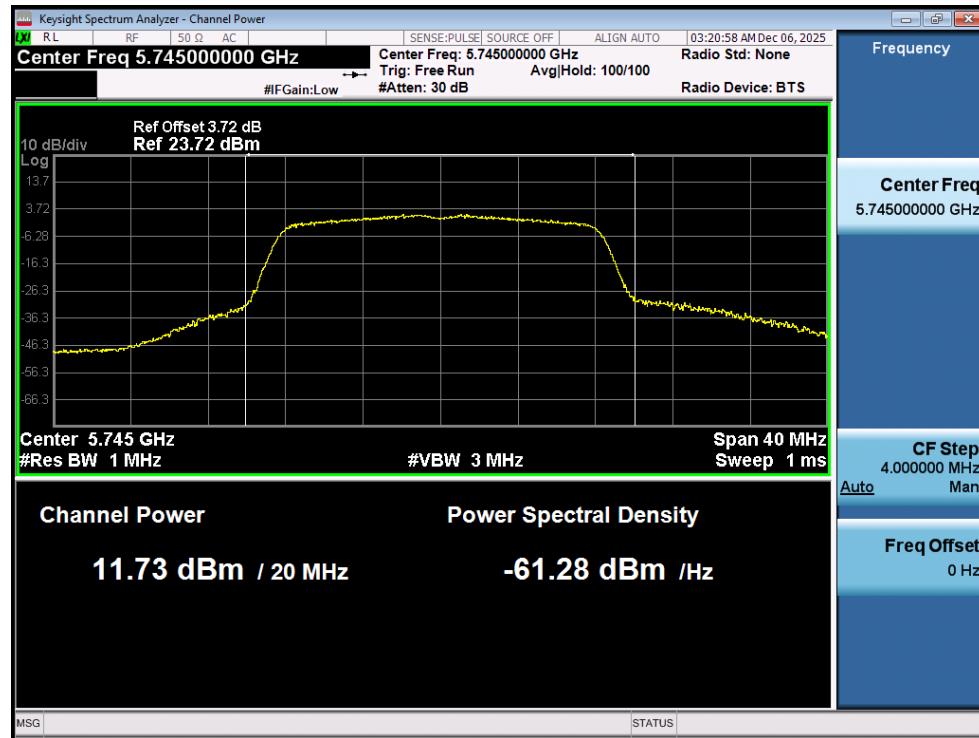
The Array gain=0 for NANT $\leq$ 4,

So the directional gain for Power measurements is 3.27 dBi

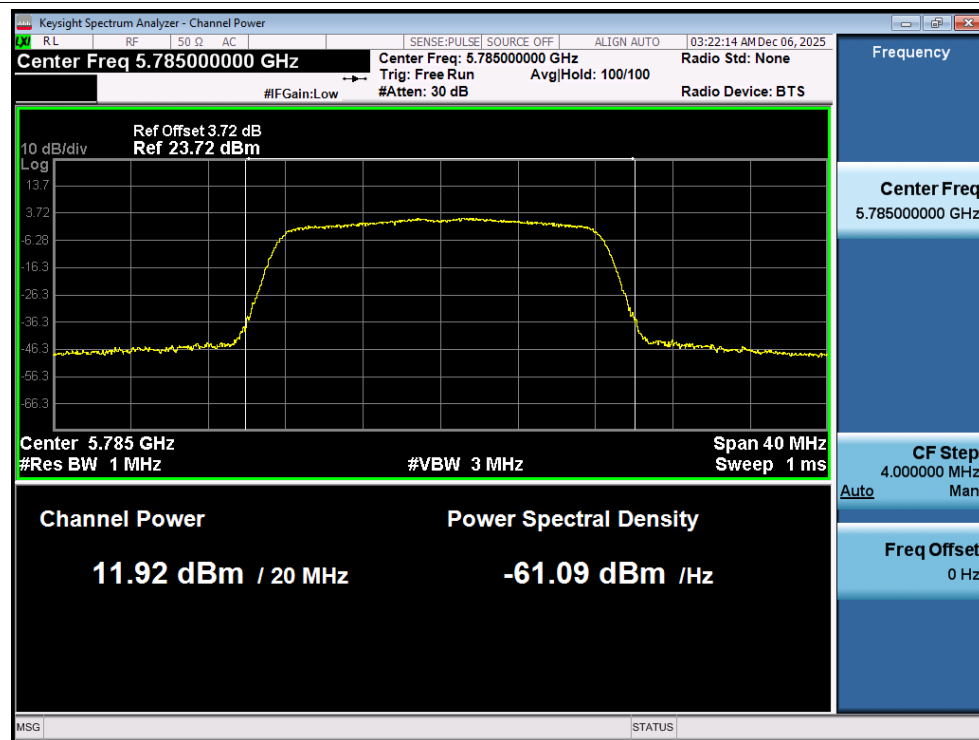
Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

Test Graphs

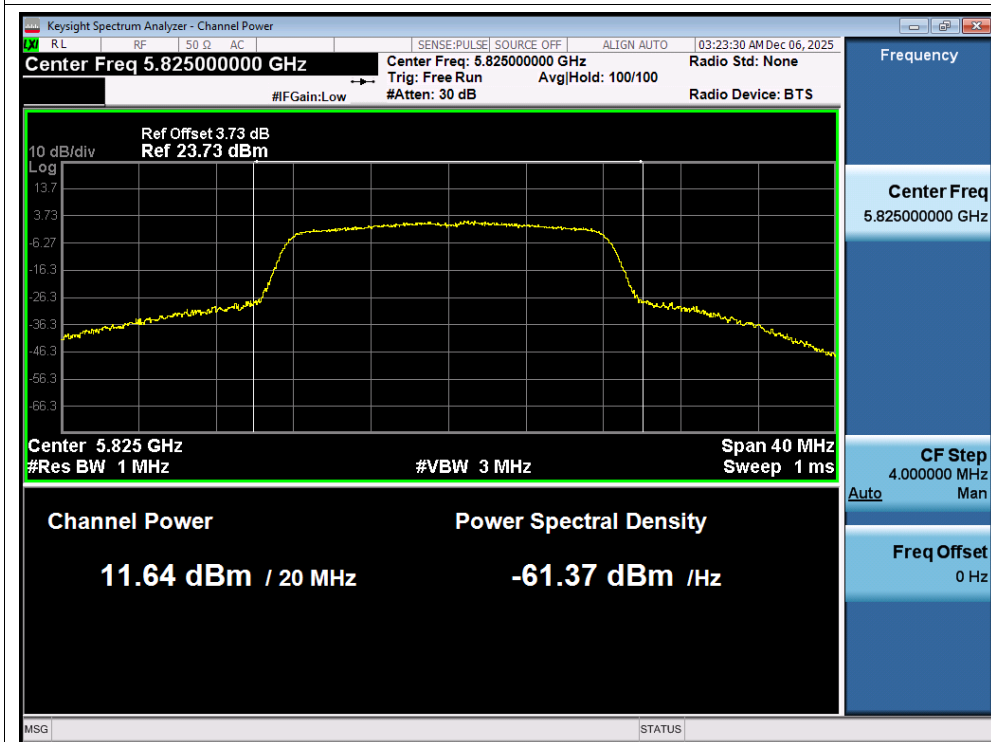
Power NVNT a 5745MHz Ant B



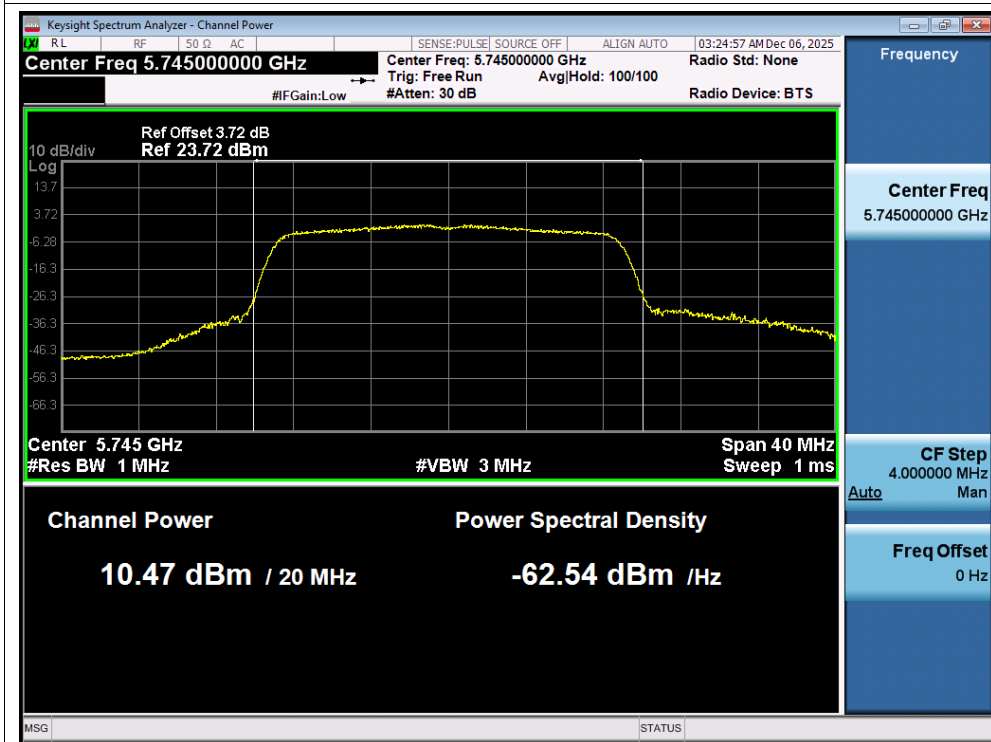
Power NVNT a 5785MHz Ant B



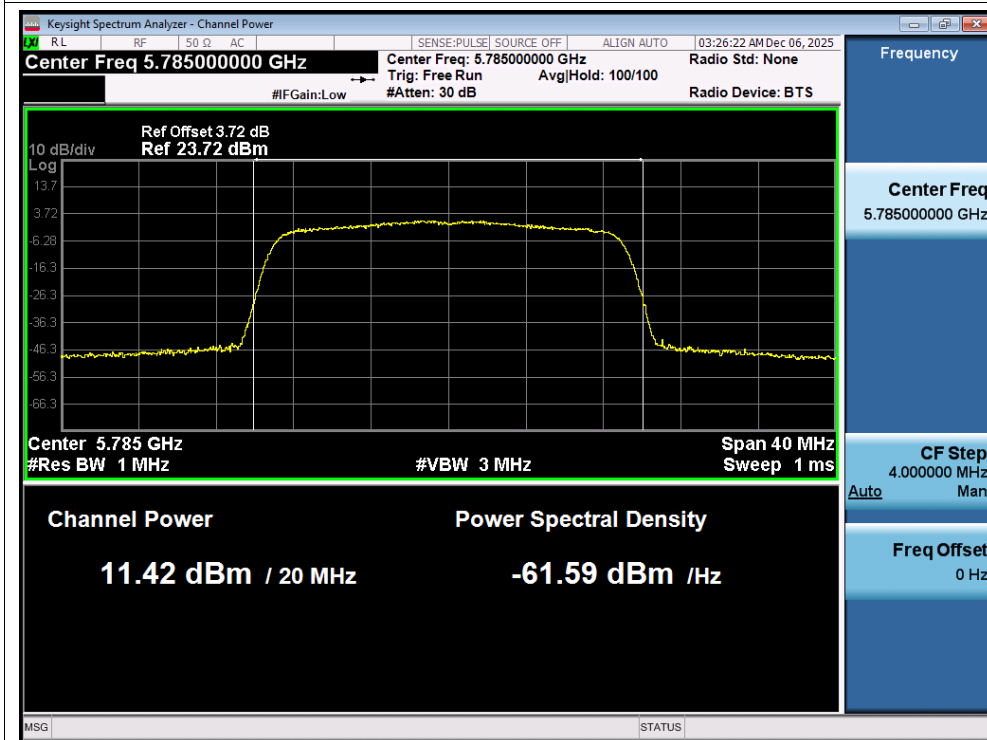
Power NVNT a 5825MHz Ant B



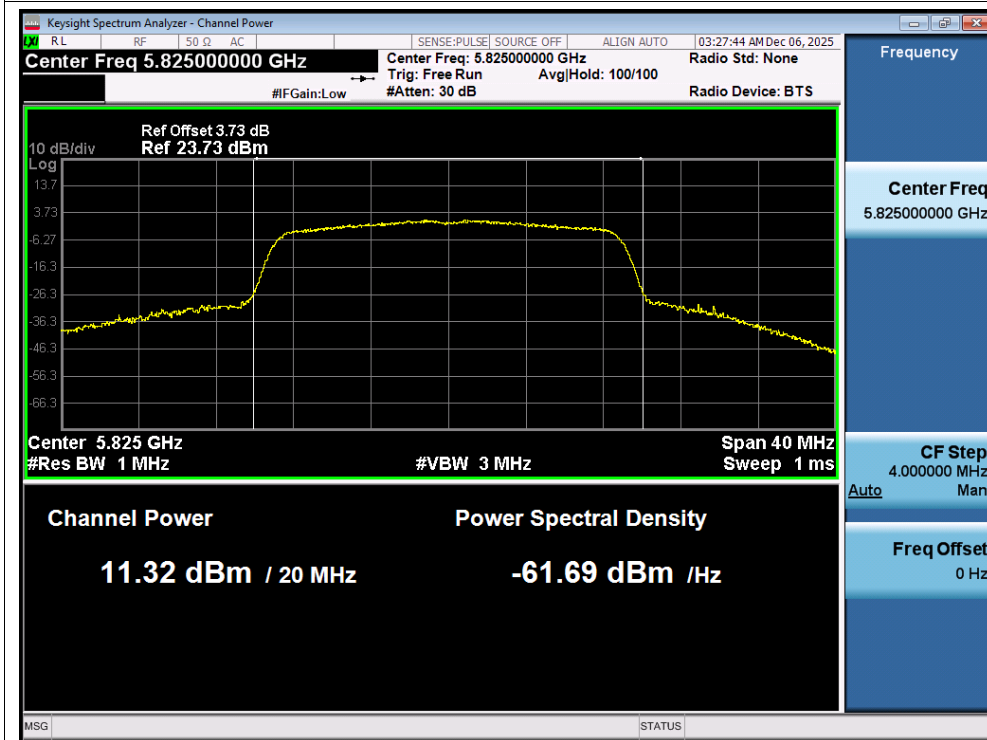
Power NVNT n20 5745MHz Ant B



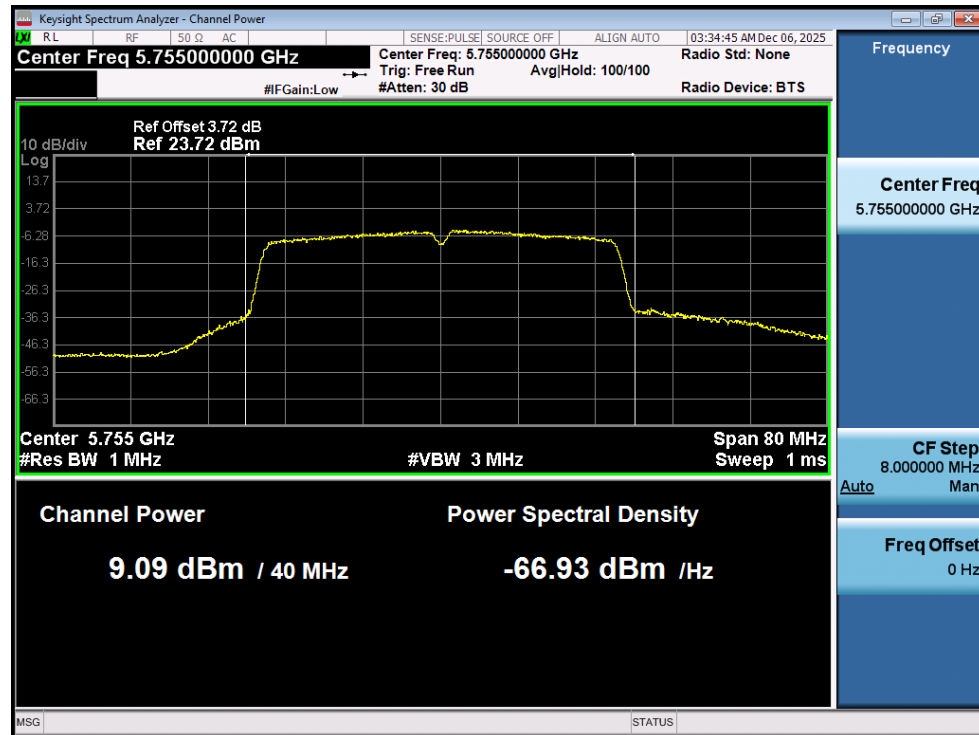
Power NVNT n20 5785MHz Ant B



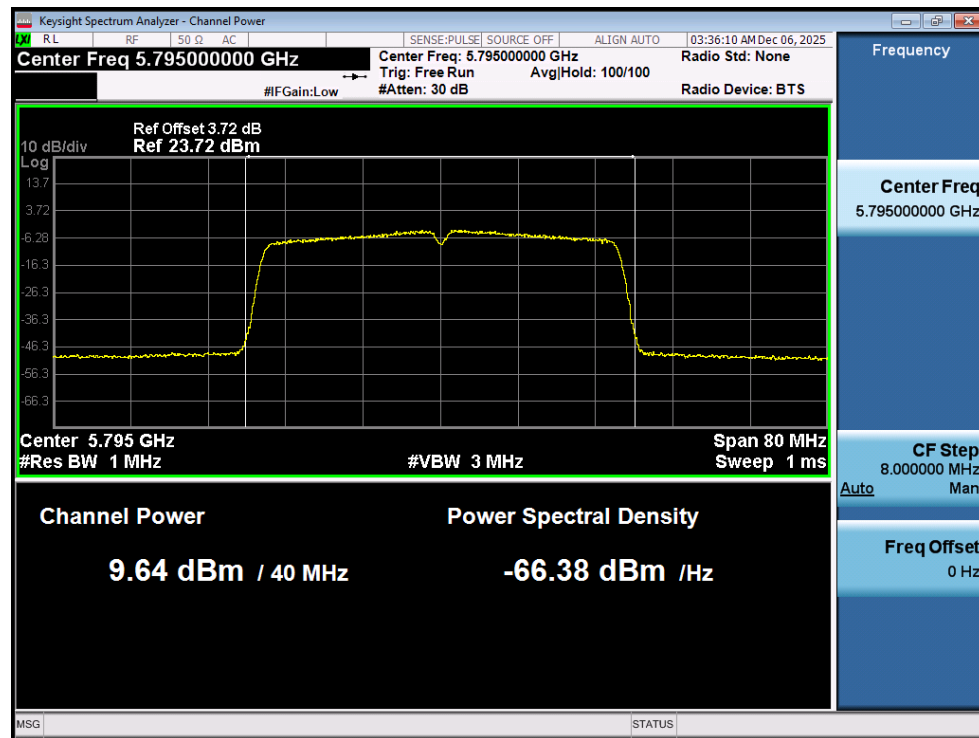
Power NVNT n20 5825MHz Ant B



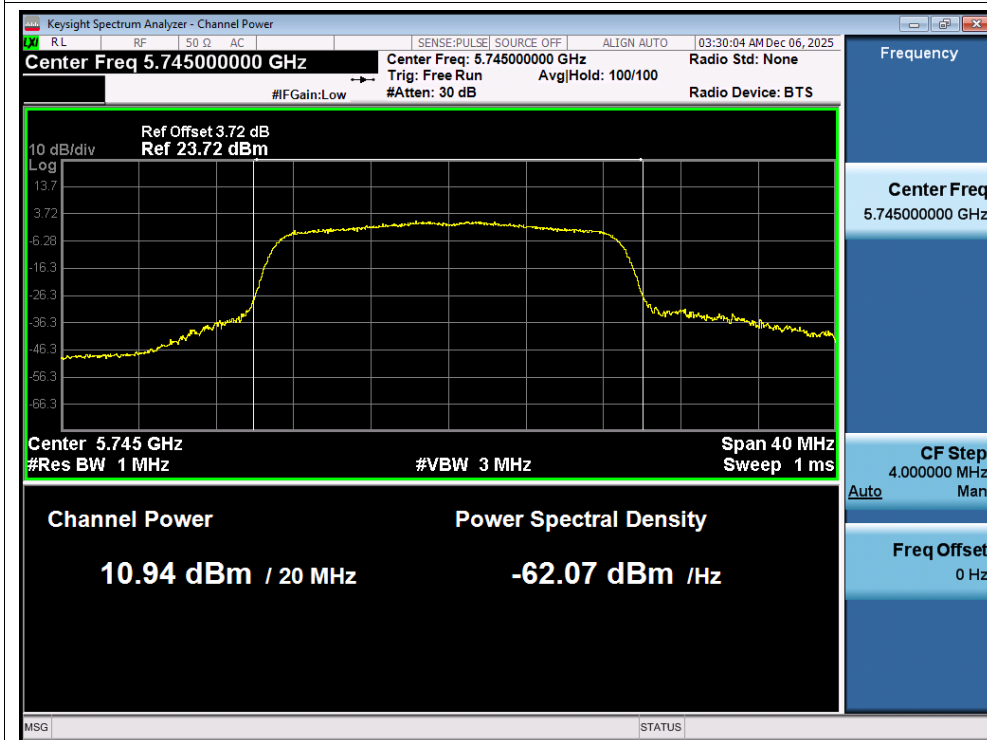
Power NVNT n40 5755MHz Ant B



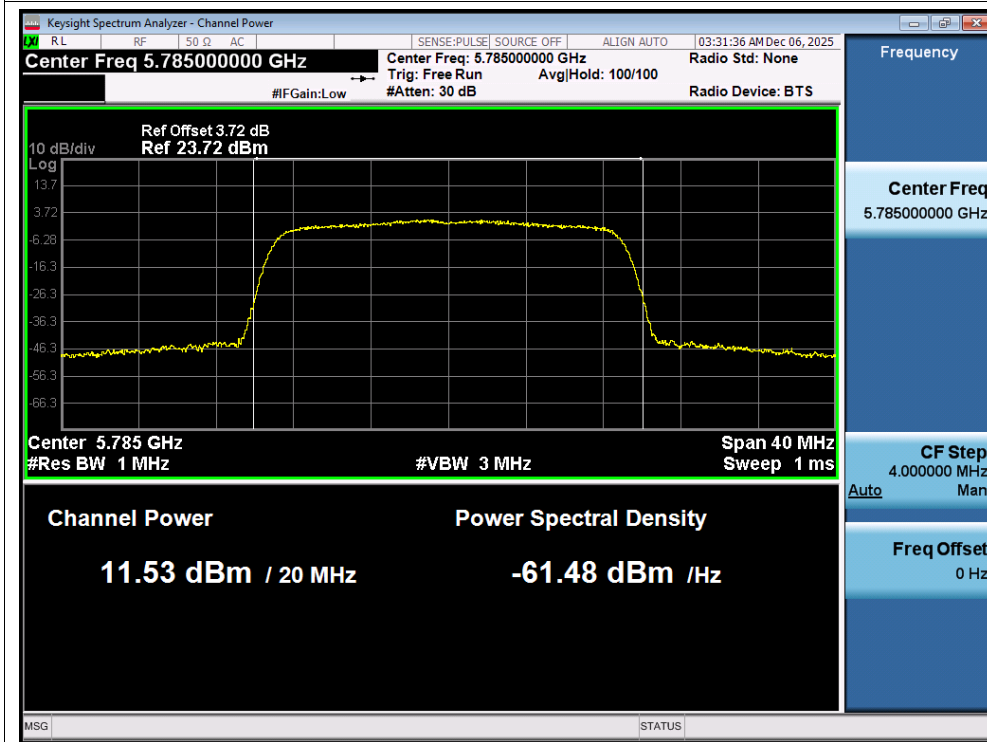
Power NVNT n40 5795MHz Ant B



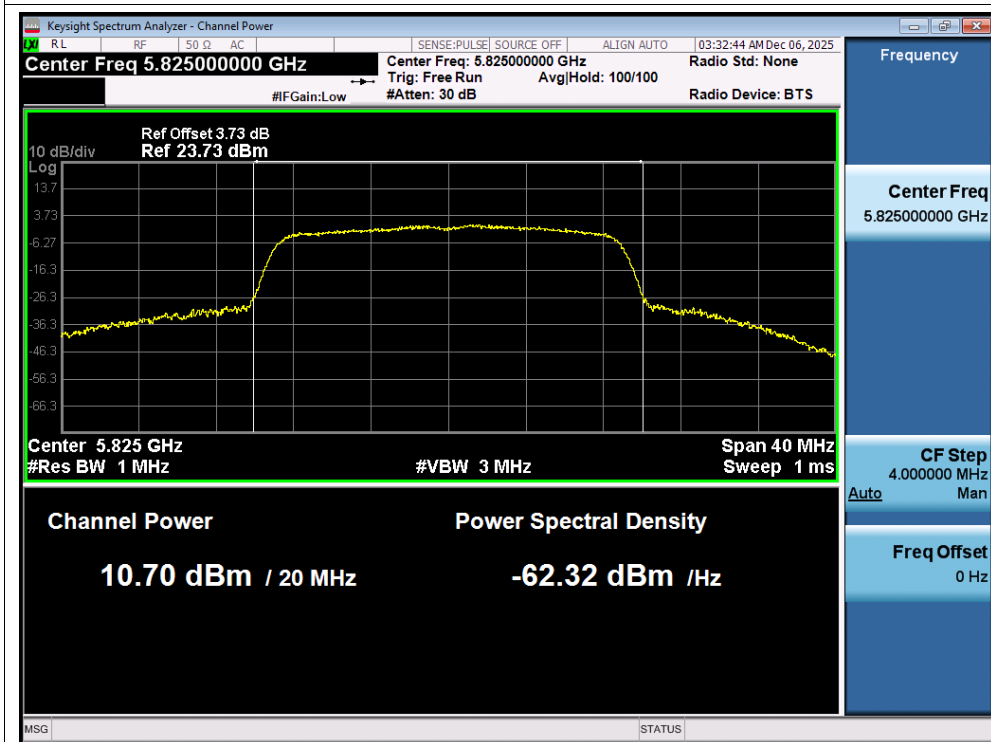
Power NVNT ac20 5745MHz Ant B



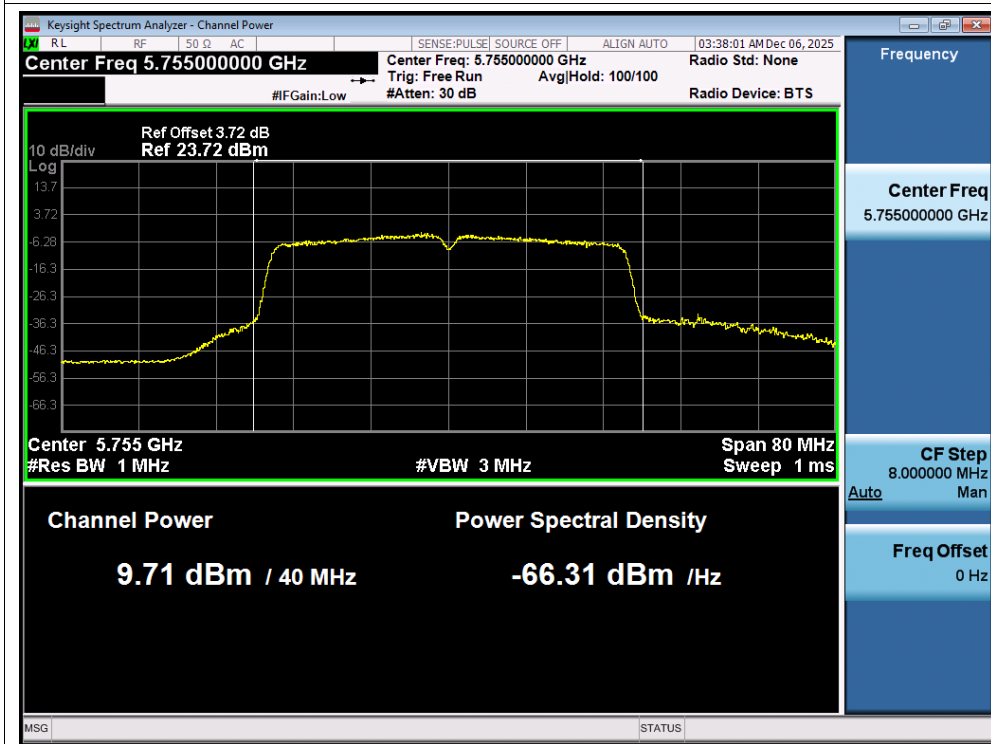
Power NVNT ac20 5785MHz Ant B



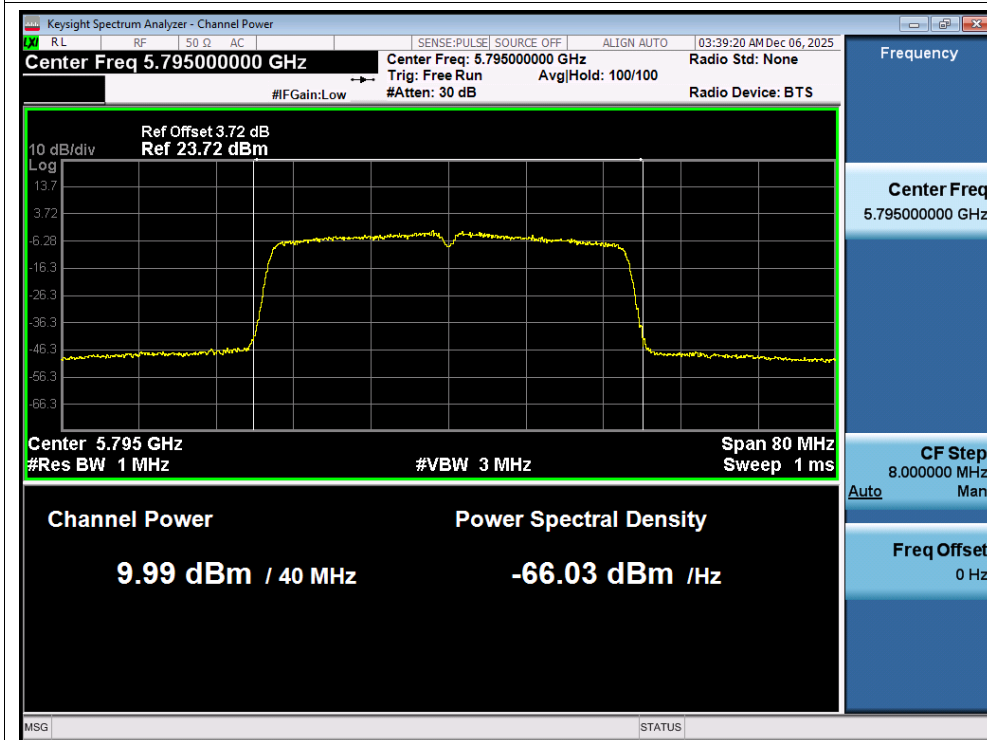
Power NVNT ac20 5825MHz Ant B



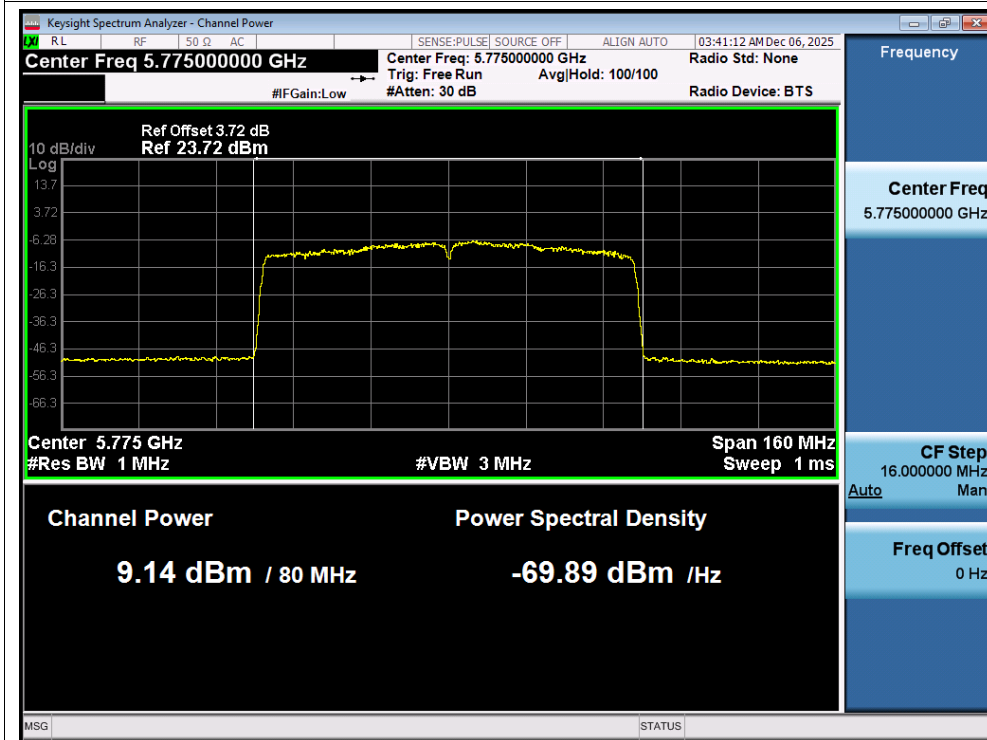
Power NVNT ac40 5755MHz Ant B



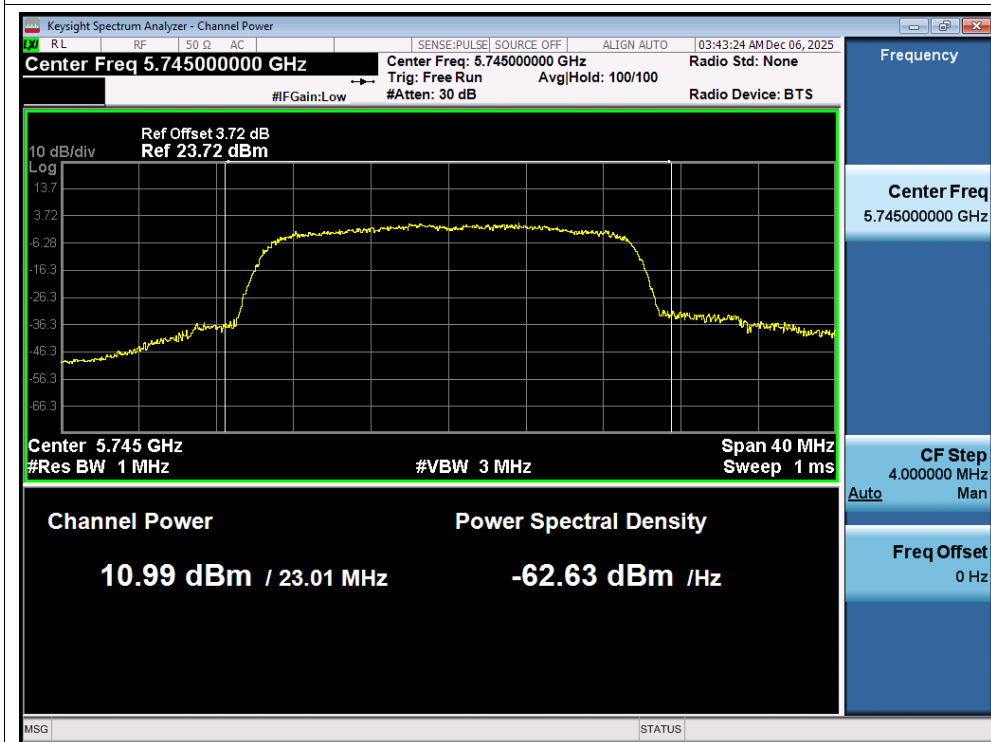
Power NVNT ac40 5795MHz Ant B



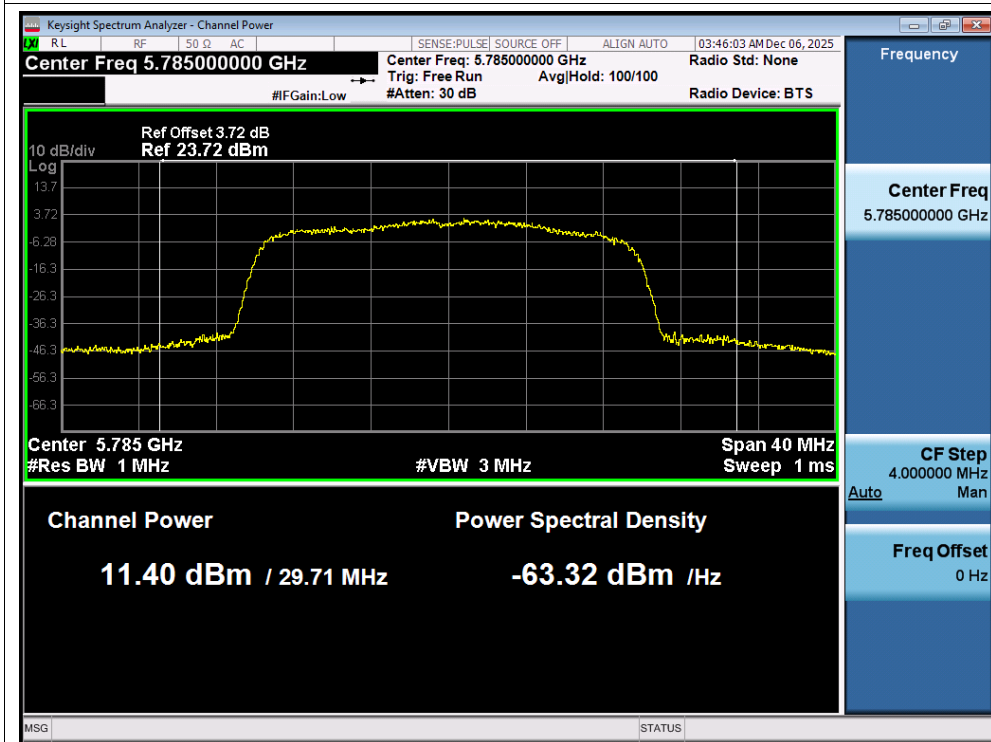
Power NVNT ac80 5775MHz Ant B



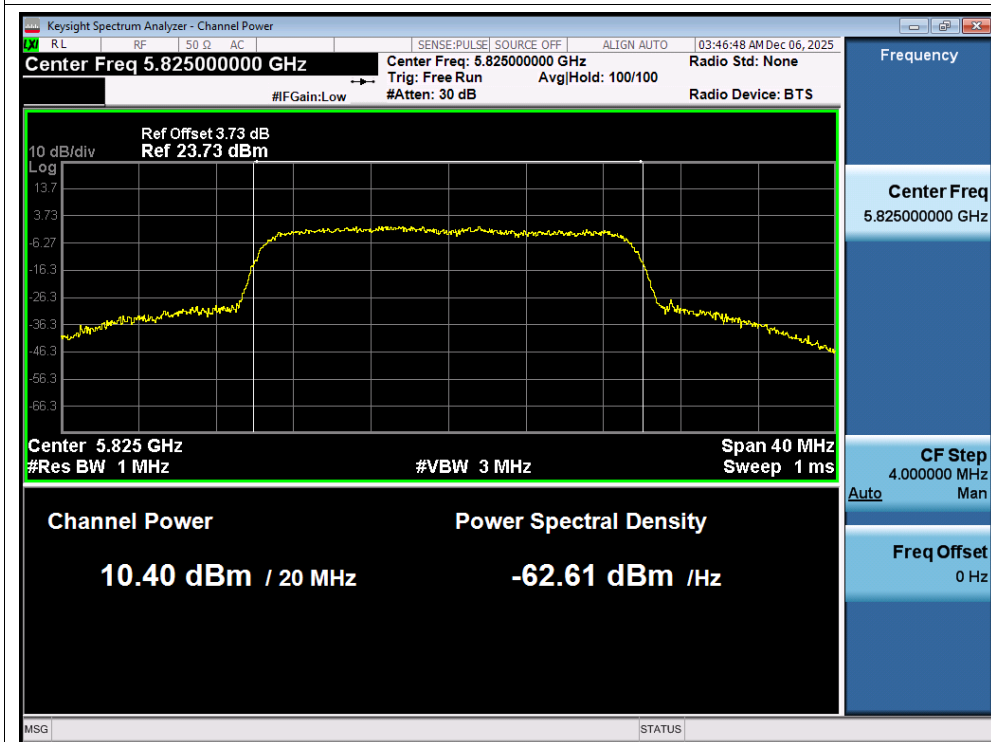
Power NVNT ax20 5745MHz Ant B



Power NVNT ax20 5785MHz Ant B

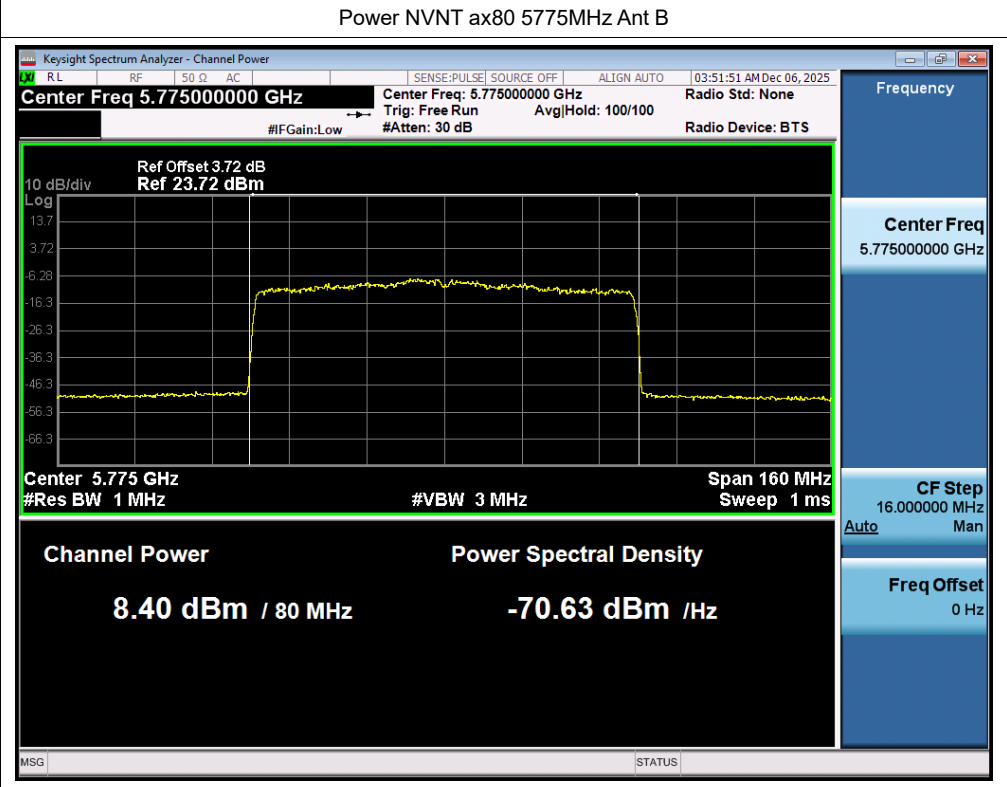
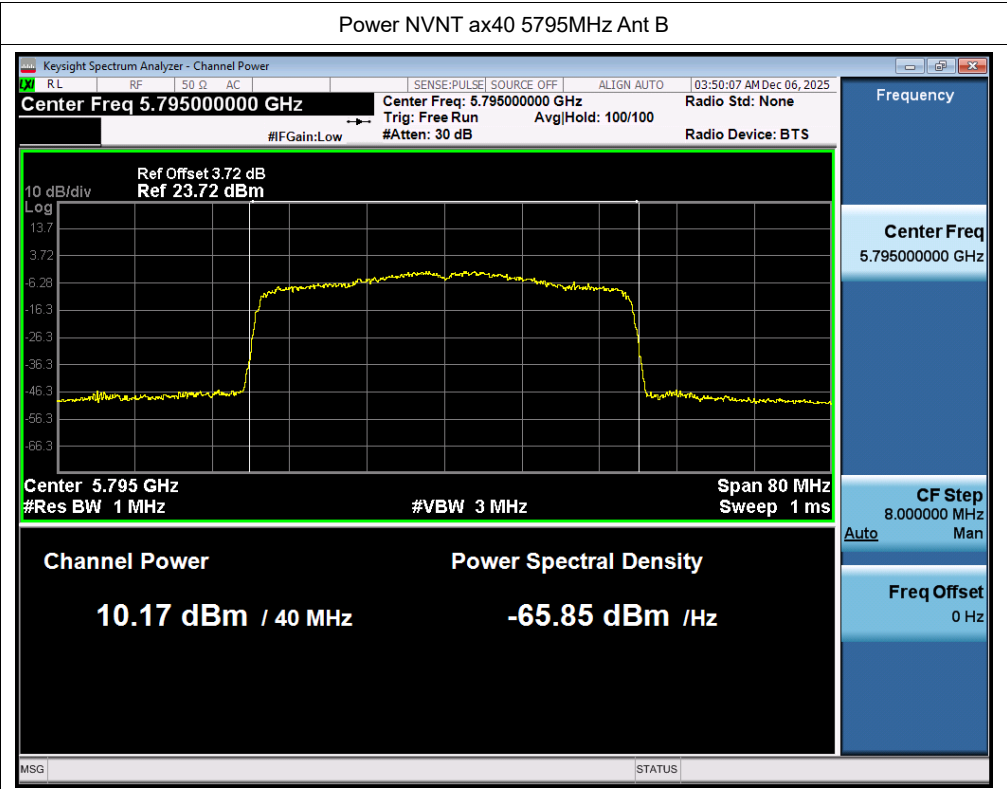


Power NVNT ax20 5825MHz Ant B



Power NVNT ax40 5755MHz Ant B





-6dB Bandwidth

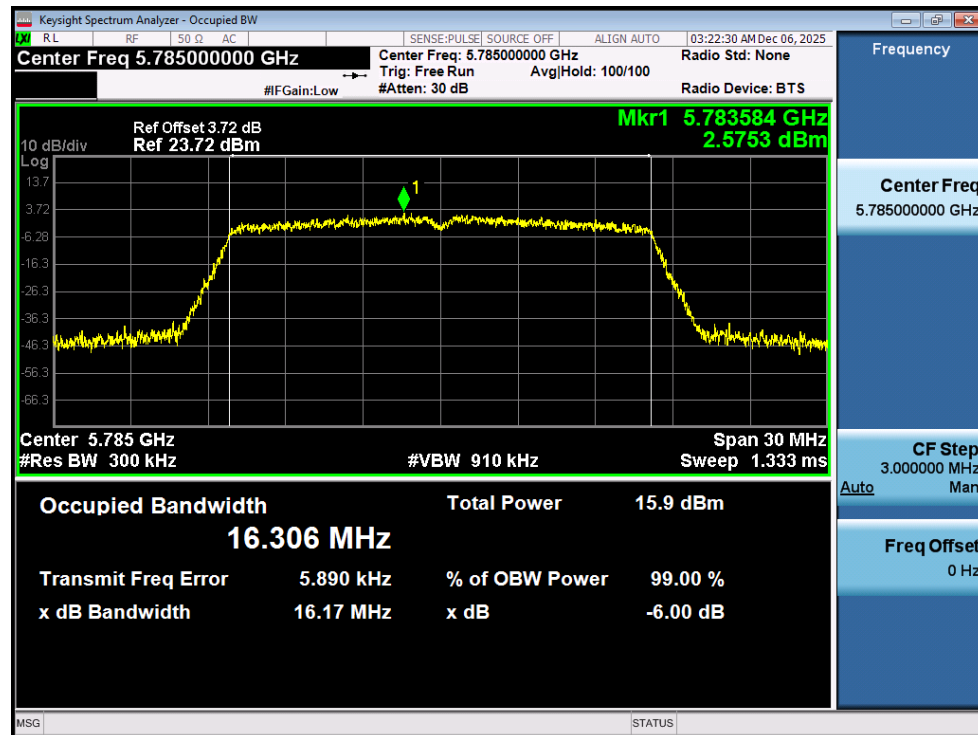
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant B	16.193	0.5	Pass
		5785		16.166	0.5	Pass
		5825		16.109	0.5	Pass
	n20	5745		17.415	0.5	Pass
		5785		17.245	0.5	Pass
		5825		16.947	0.5	Pass
	n40	5755		35.611	0.5	Pass
		5795		35.29	0.5	Pass
	ac20	5745		16.689	0.5	Pass
		5785		16.558	0.5	Pass
		5825		16.552	0.5	Pass
	ac40	5755		35.178	0.5	Pass
		5795		35.336	0.5	Pass
	ac80	5775		74.842	0.5	Pass
	ax20	5745		18.656	0.5	Pass
		5785		18.295	0.5	Pass
		5825		18.729	0.5	Pass
	ax40	5755		35.669	0.5	Pass
		5795		35.116	0.5	Pass
	ax80	5775		74.854	0.5	Pass

Test Graphs

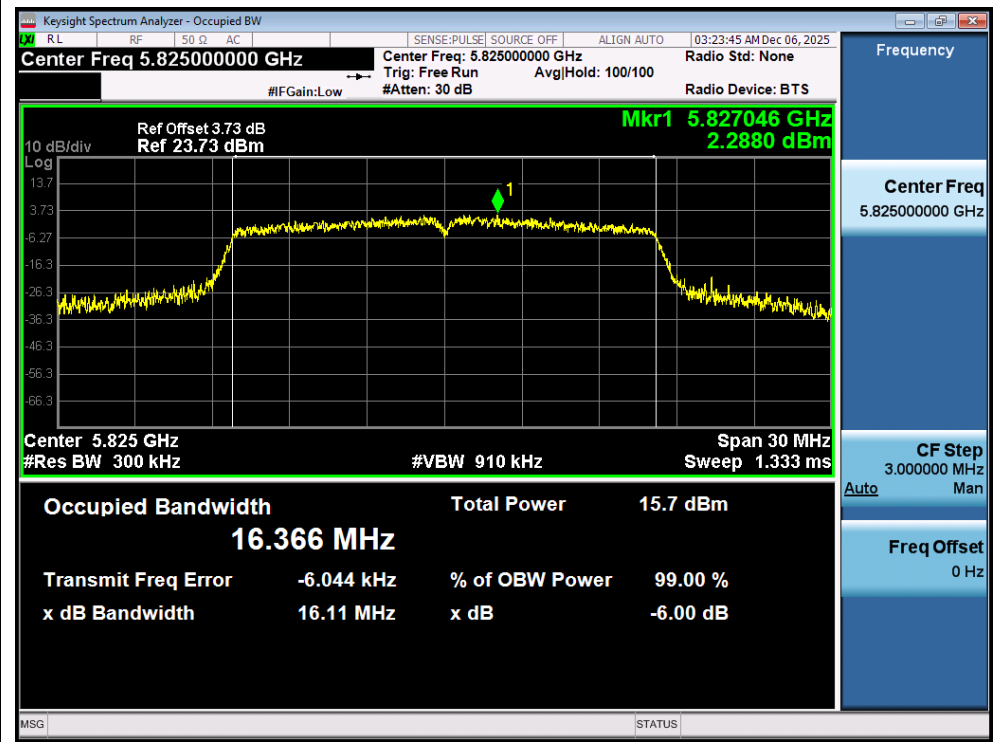
-6dB Bandwidth NVNT a 5745MHz Ant B



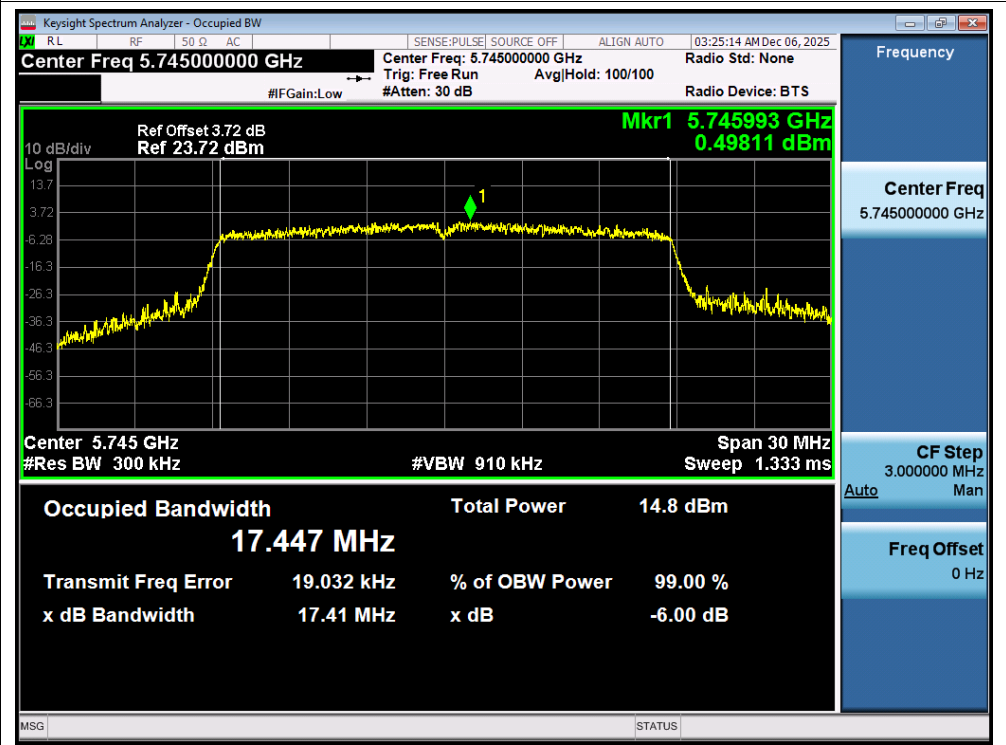
-6dB Bandwidth NVNT a 5785MHz Ant B



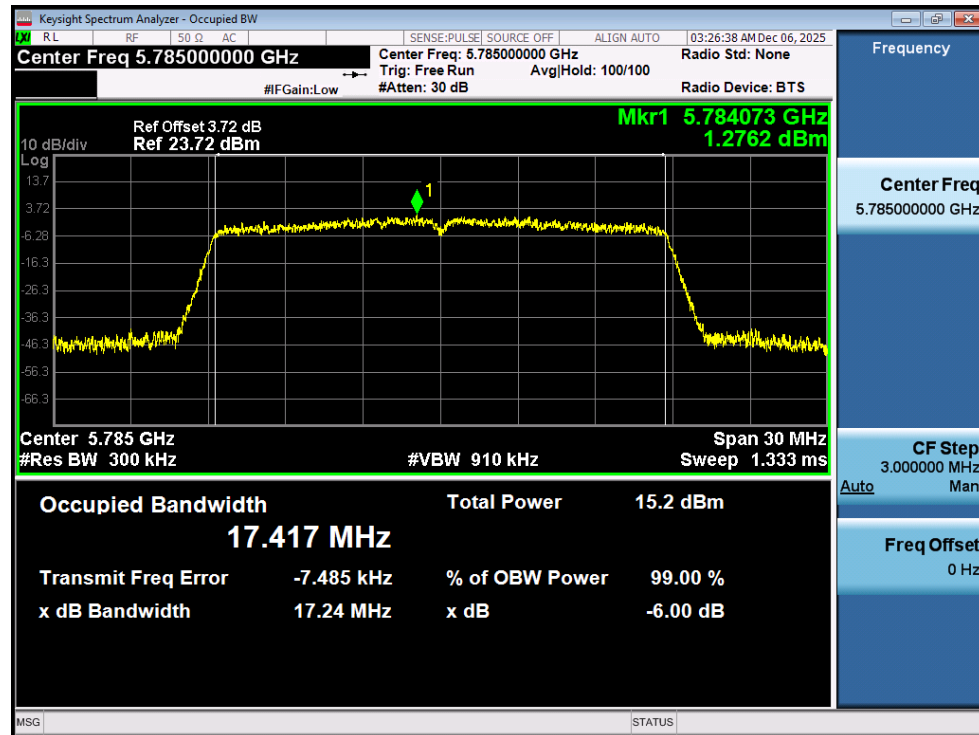
-6dB Bandwidth NVNT a 5825MHz Ant B



-6dB Bandwidth NVNT n20 5745MHz Ant B



-6dB Bandwidth NVNT n20 5785MHz Ant B



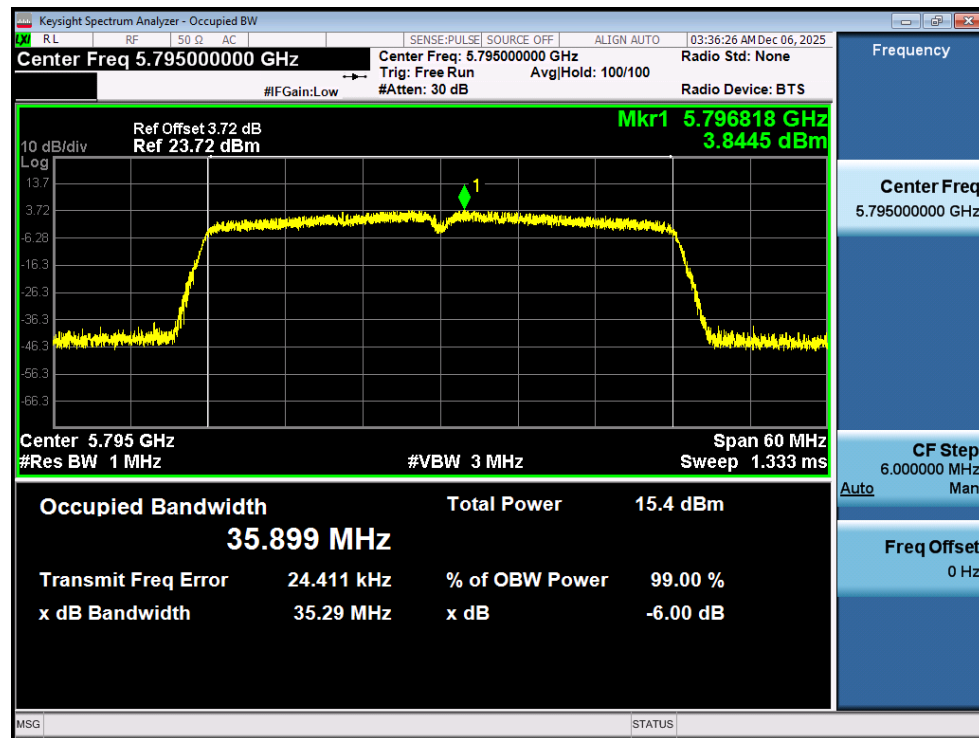
-6dB Bandwidth NVNT n20 5825MHz Ant B



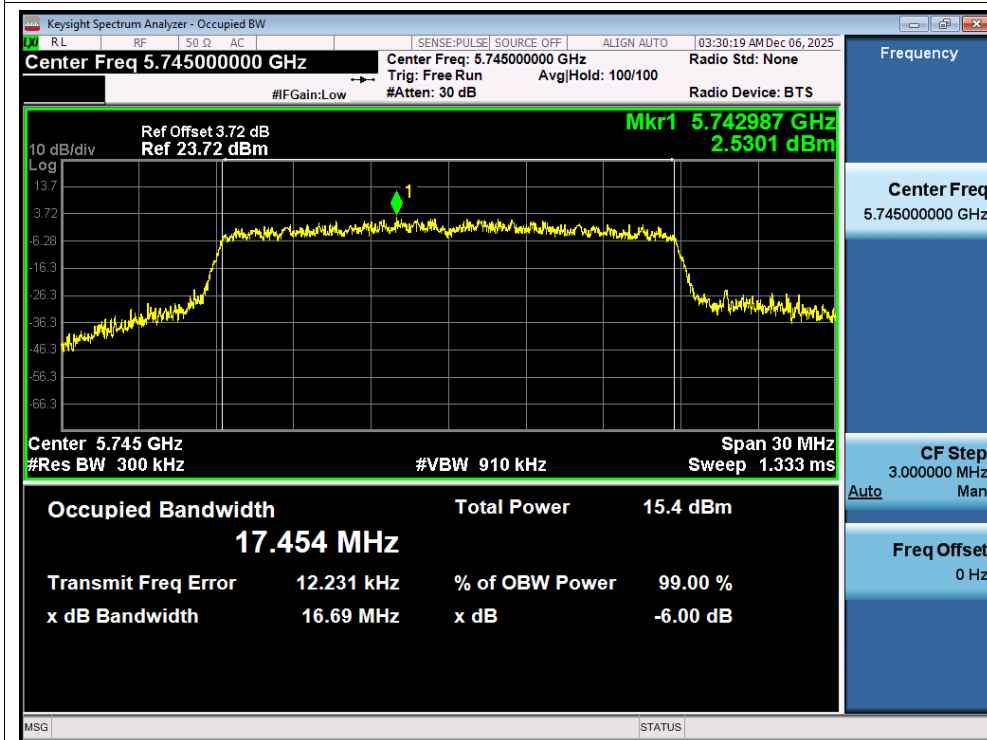
-6dB Bandwidth NVNT n40 5755MHz Ant B



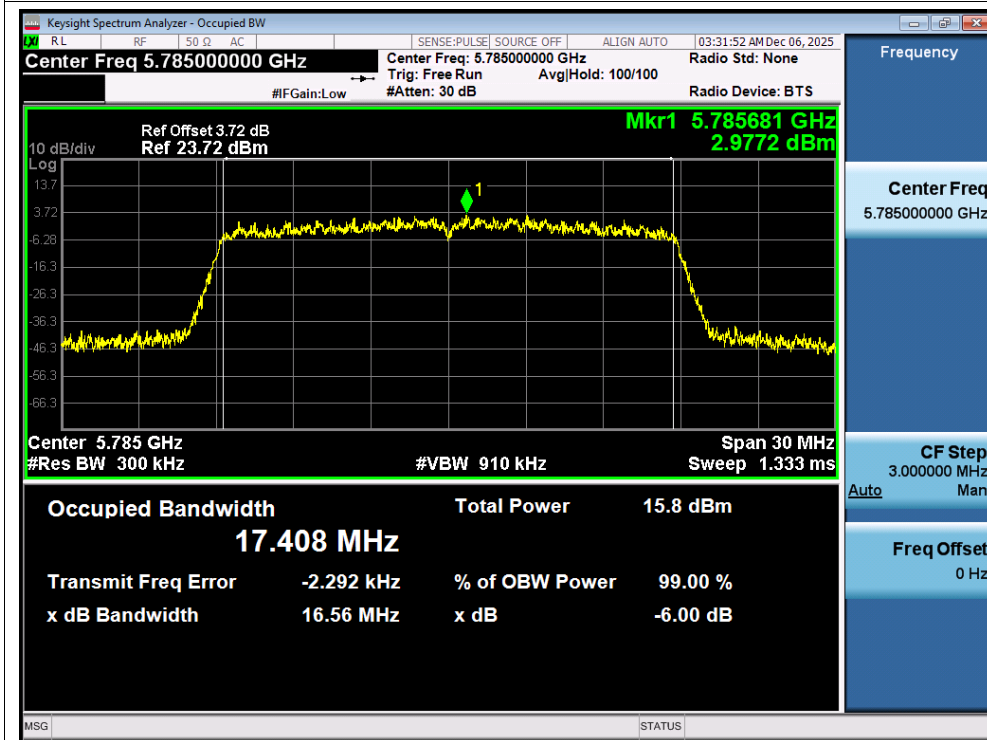
-6dB Bandwidth NVNT n40 5795MHz Ant B



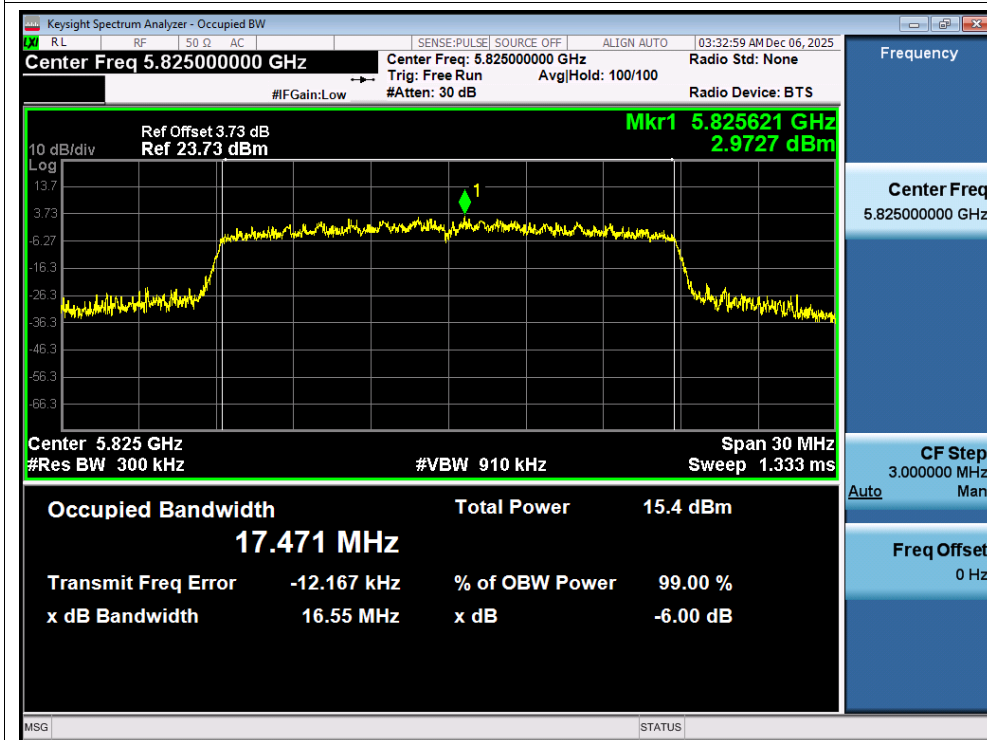
-6dB Bandwidth NVNT ac20 5745MHz Ant B



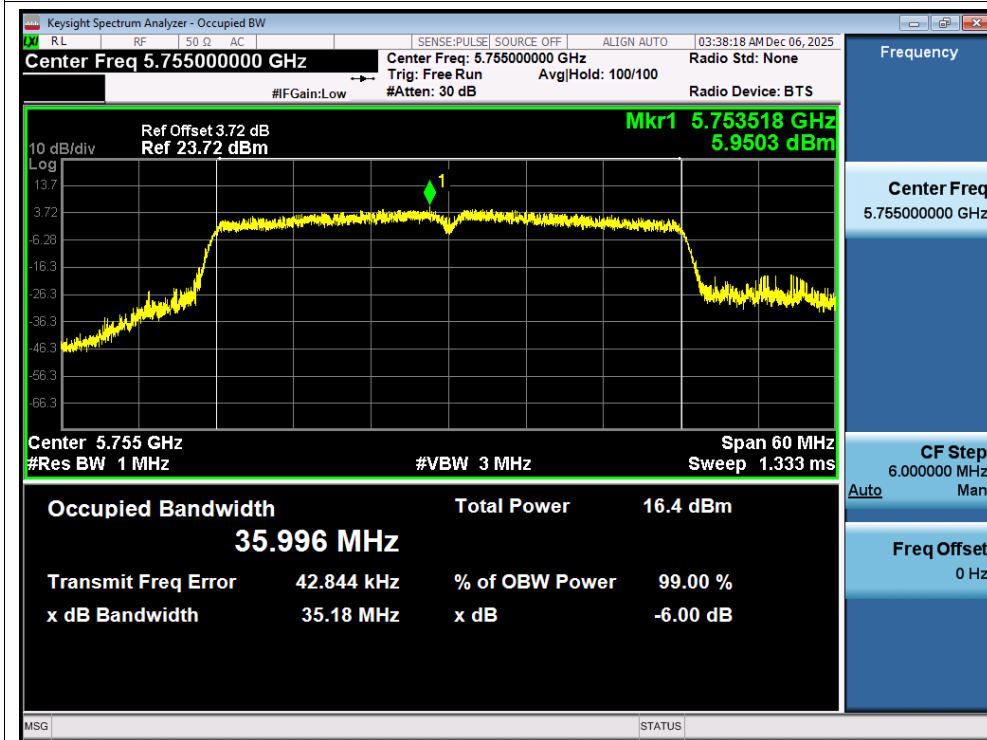
-6dB Bandwidth NVNT ac20 5785MHz Ant B



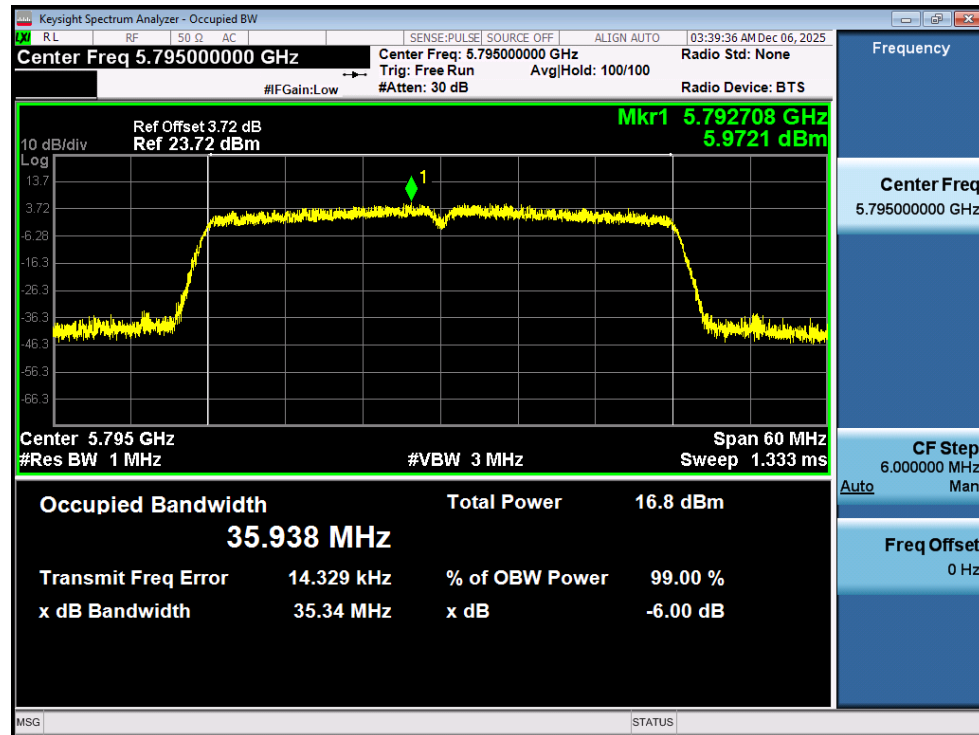
-6dB Bandwidth NVNT ac20 5825MHz Ant B



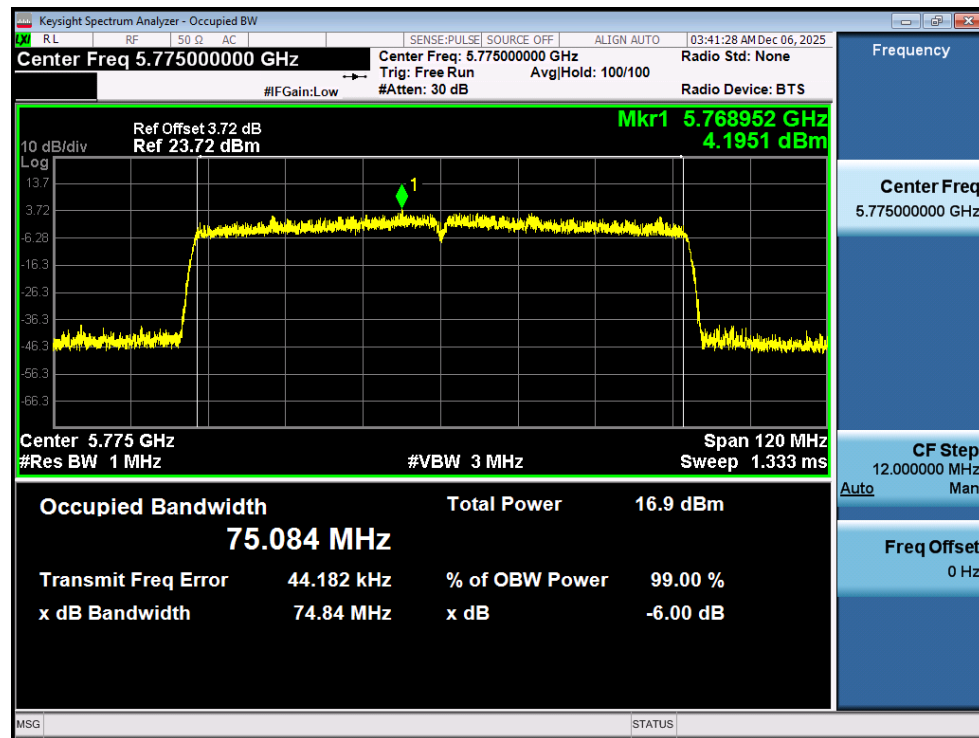
-6dB Bandwidth NVNT ac40 5755MHz Ant B



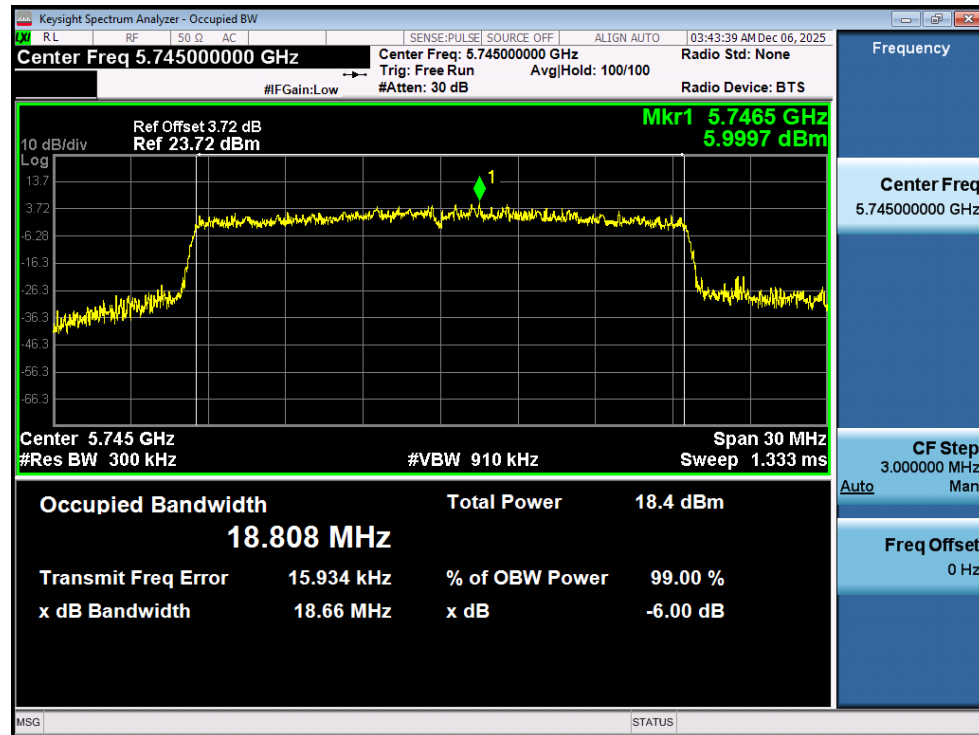
-6dB Bandwidth NVNT ac40 5795MHz Ant B



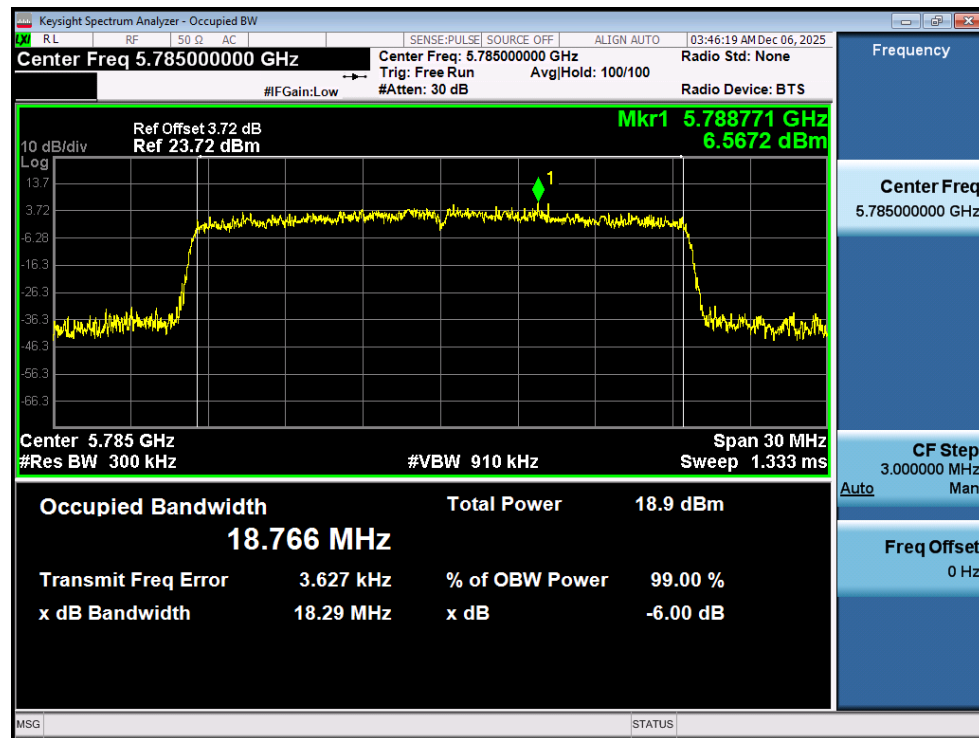
-6dB Bandwidth NVNT ac80 5775MHz Ant B



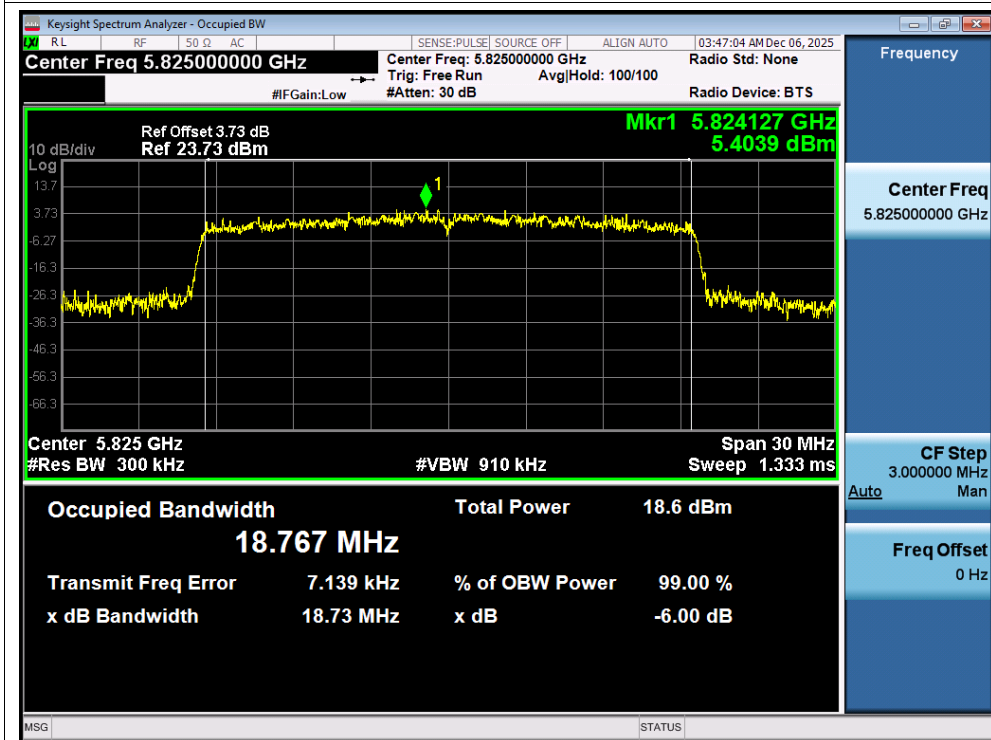
-6dB Bandwidth NVNT ax20 5745MHz Ant B



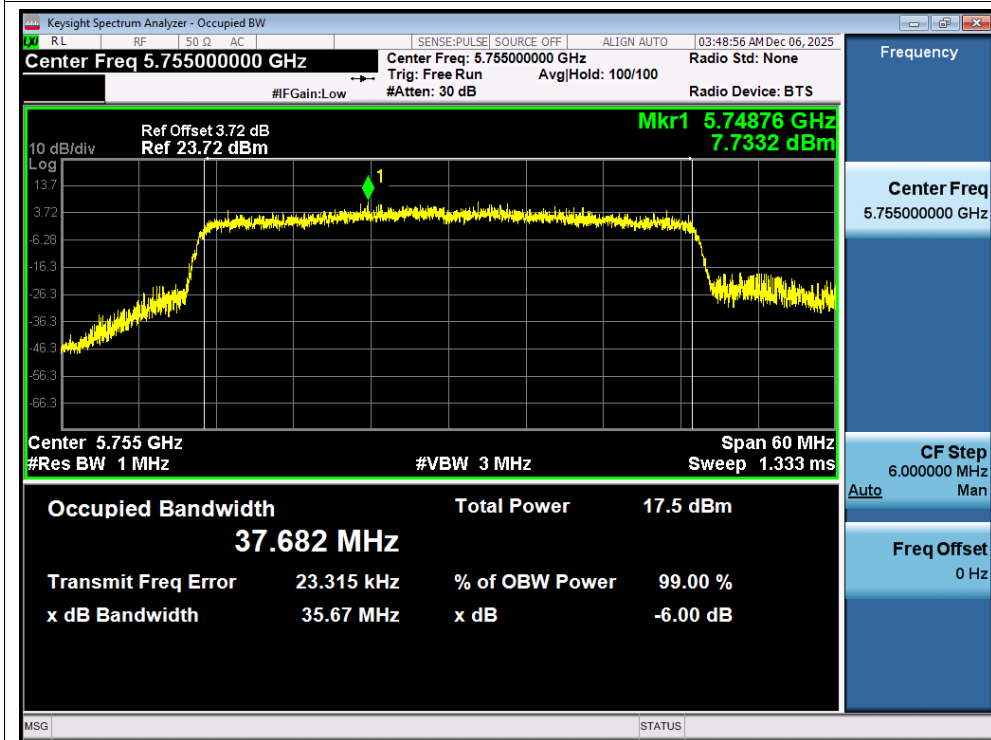
-6dB Bandwidth NVNT ax20 5785MHz Ant B



-6dB Bandwidth NVNT ax20 5825MHz Ant B



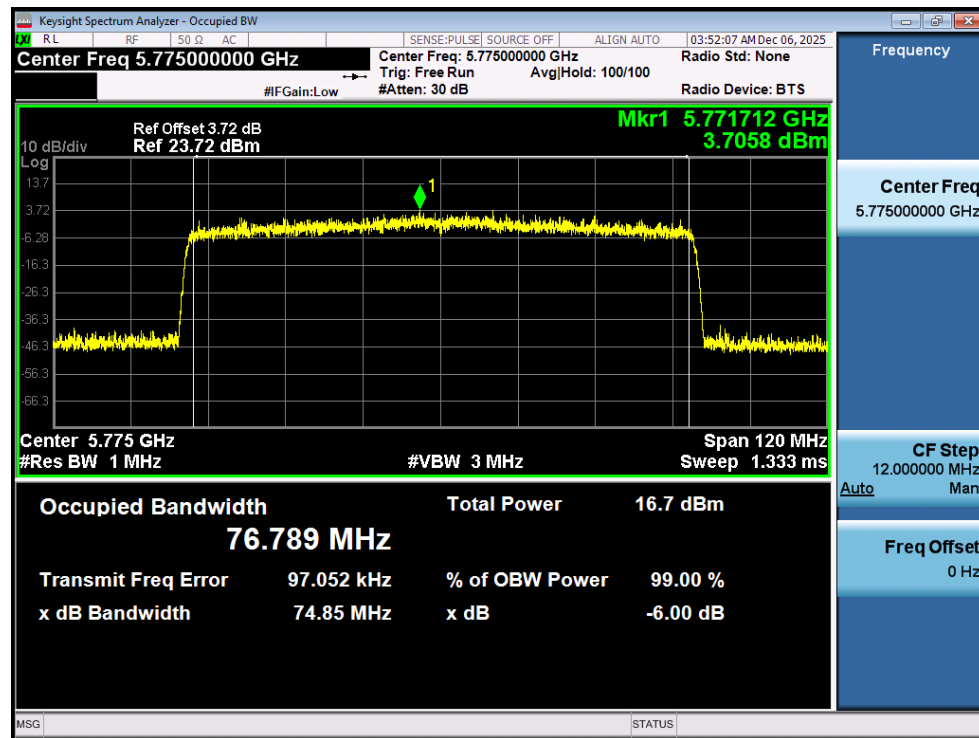
-6dB Bandwidth NVNT ax40 5755MHz Ant B



-6dB Bandwidth NVNT ax40 5795MHz Ant B



-6dB Bandwidth NVNT ax80 5775MHz Ant B



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant B	16.279
		5785		16.265
		5825		16.297
	n20	5745		17.424
		5785		17.387
		5825		17.442
	n40	5755		35.825
		5795		35.758
	ac20	5745		17.425
		5785		17.415
		5825		17.477
	ac40	5755		35.825
		5795		35.733
	ac80	5775		75.176
	ax20	5745		18.757
		5785		18.719
		5825		18.768
	ax40	5755		37.482
		5795		37.466
	ax80	5775		76.758

Test Graphs

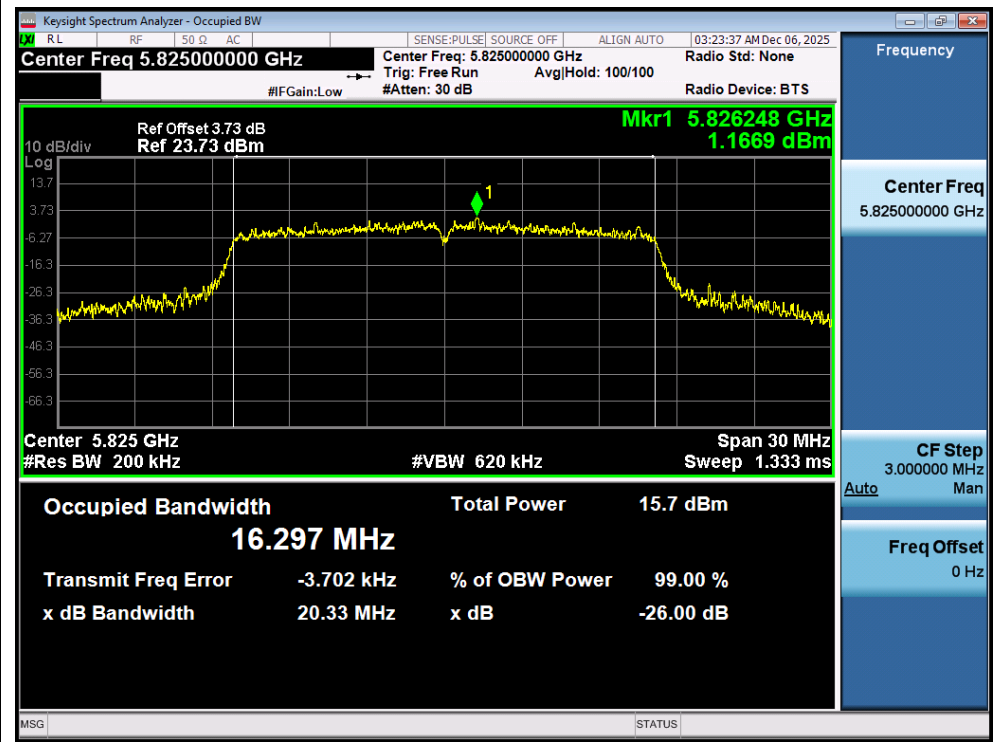
OBW NVNT a 5745MHz Ant B



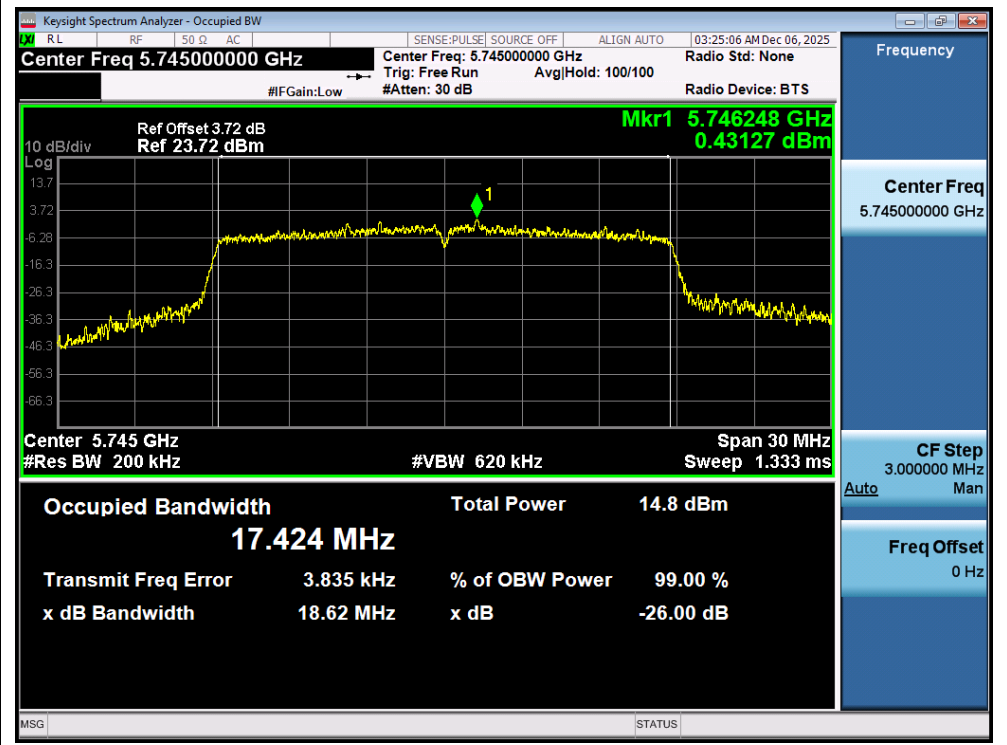
OBW NVNT a 5785MHz Ant B



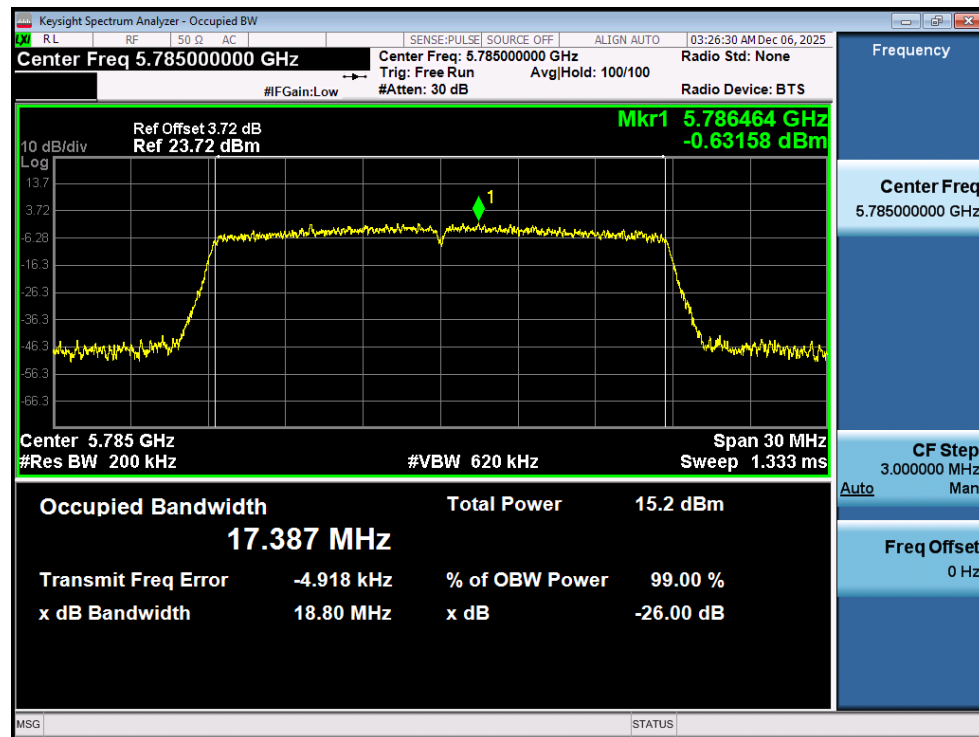
OBW NVNT a 5825MHz Ant B



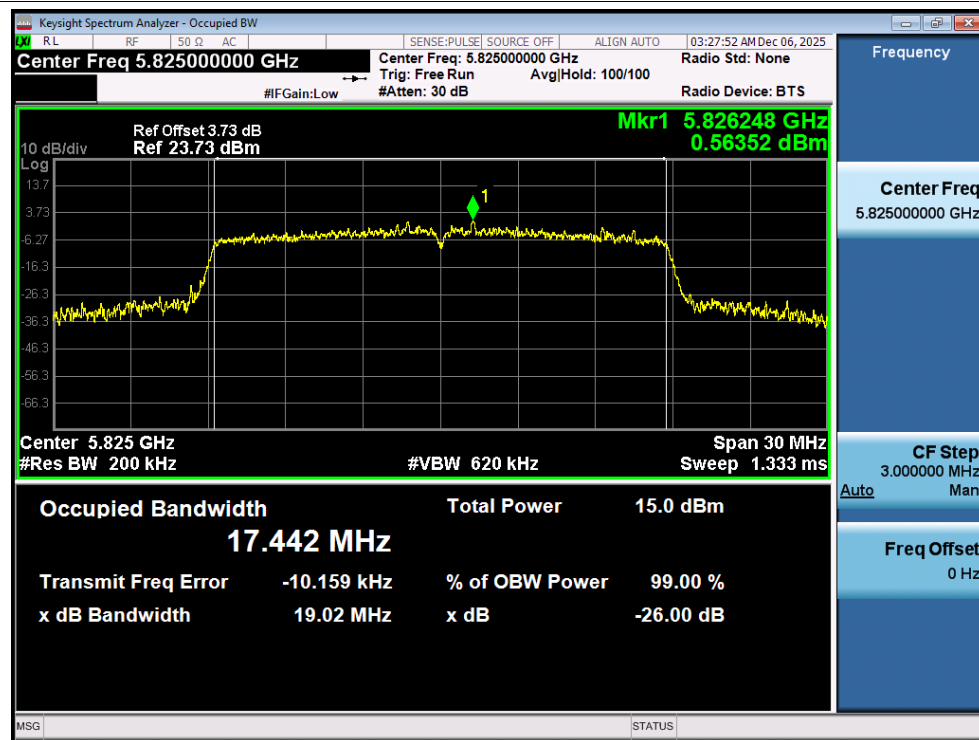
OBW NVNT n20 5745MHz Ant B



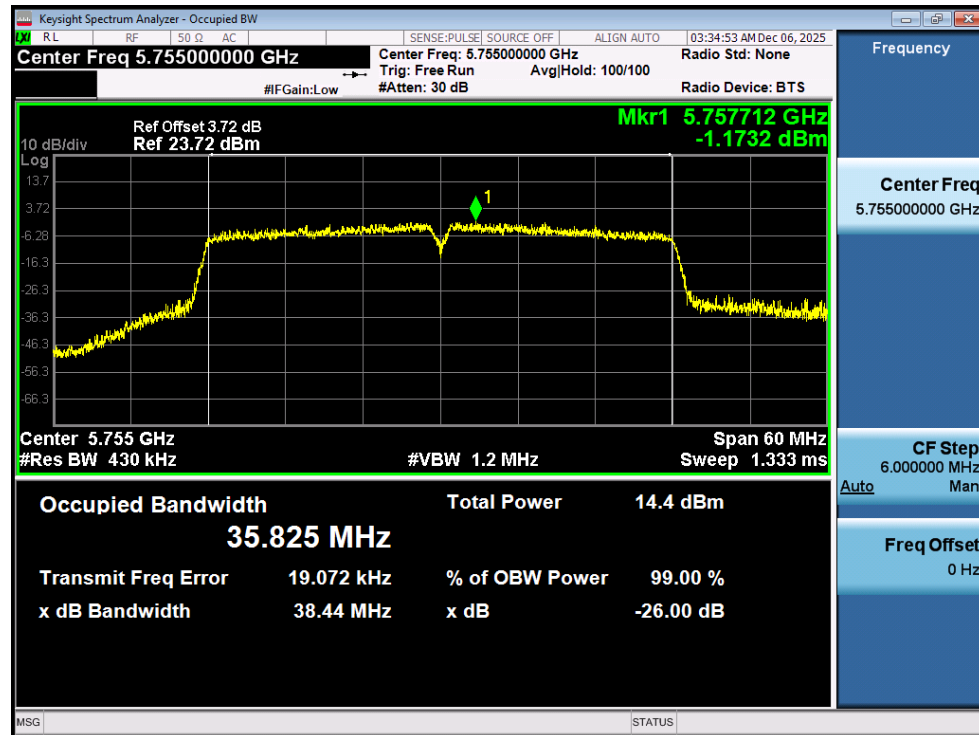
OBW NVNT n20 5785MHz Ant B



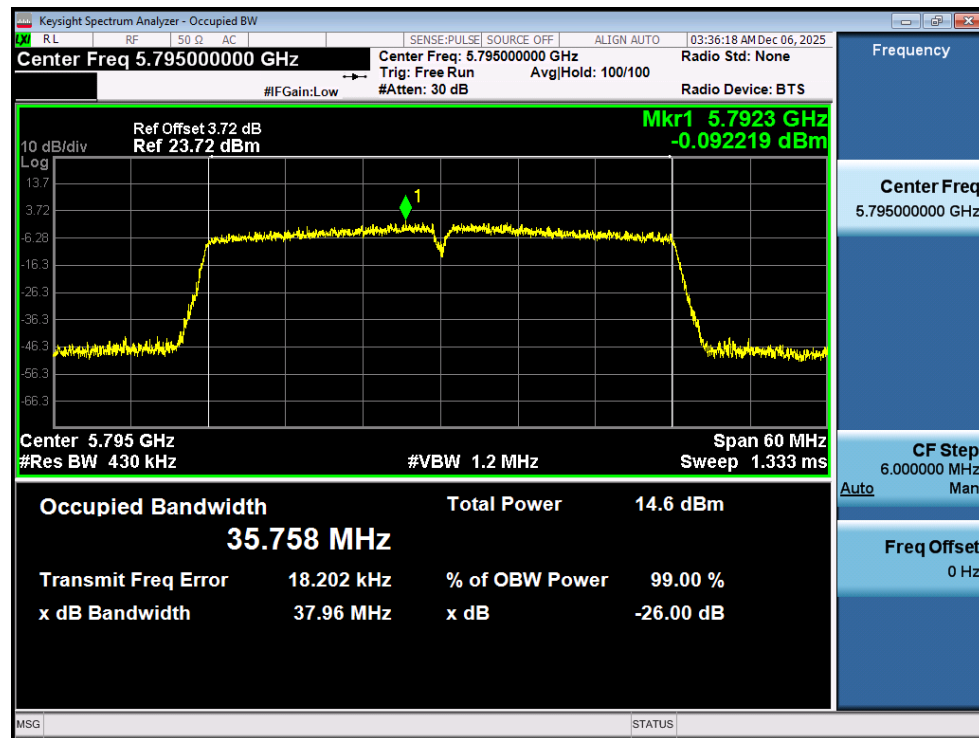
OBW NVNT n20 5825MHz Ant B



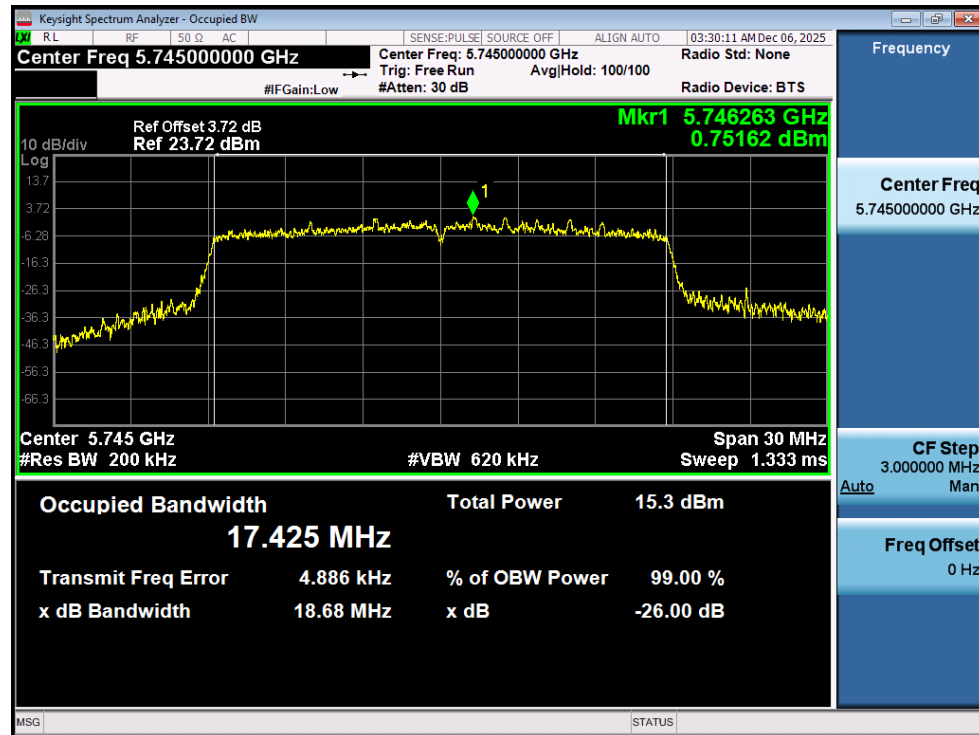
OBW NVNT n40 5755MHz Ant B



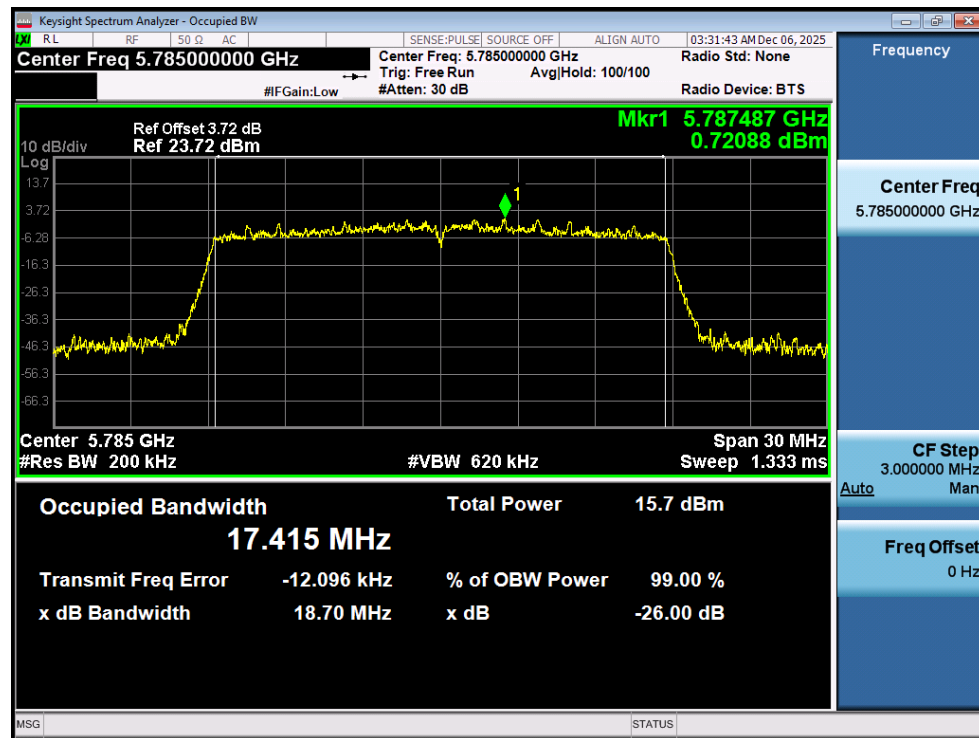
OBW NVNT n40 5795MHz Ant B



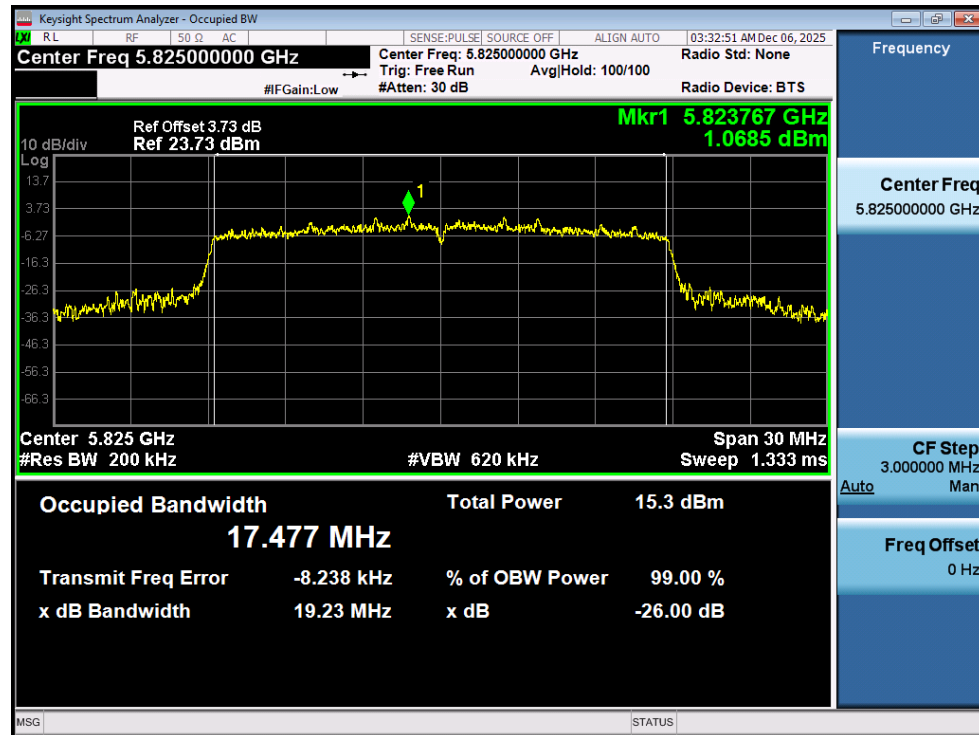
OBW NVNT ac20 5745MHz Ant B



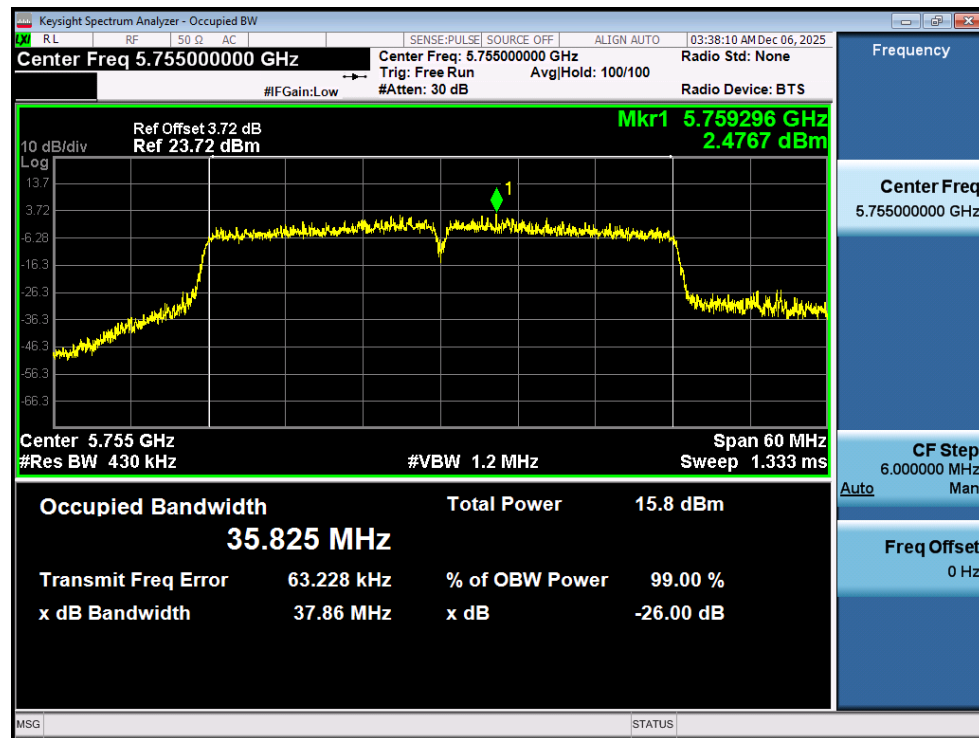
OBW NVNT ac20 5785MHz Ant B



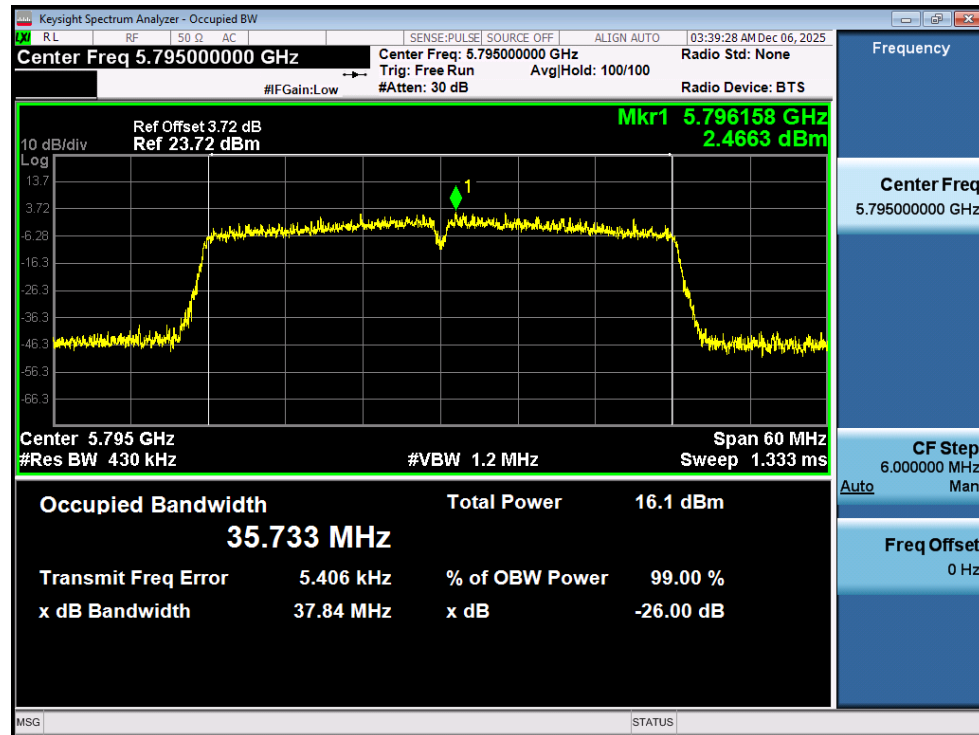
OBW NVNT ac20 5825MHz Ant B



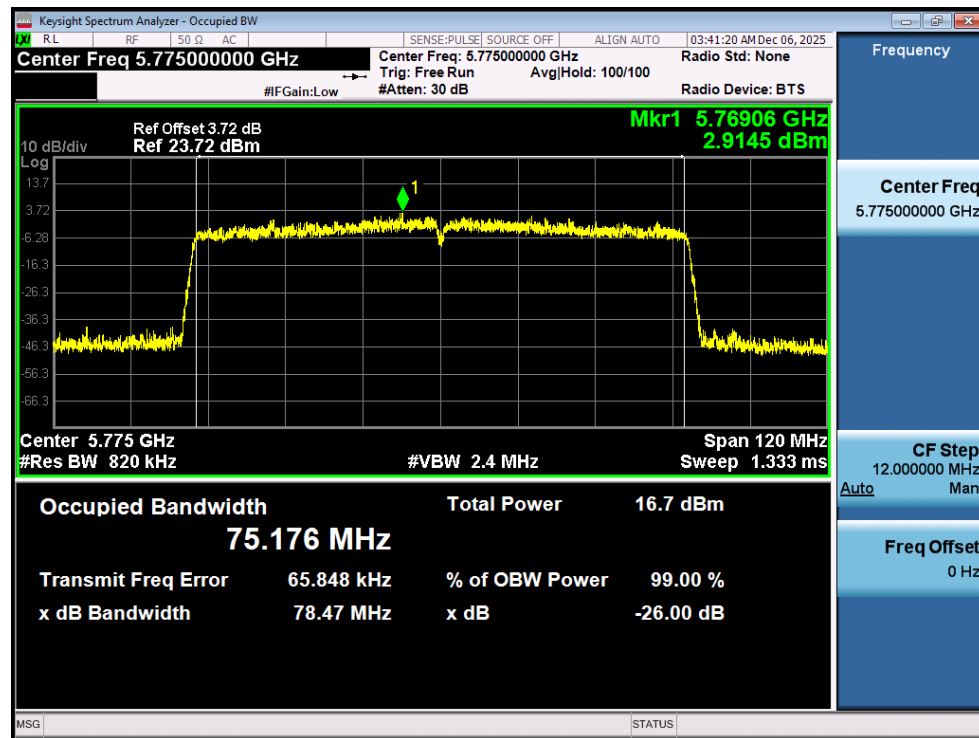
OBW NVNT ac40 5755MHz Ant B



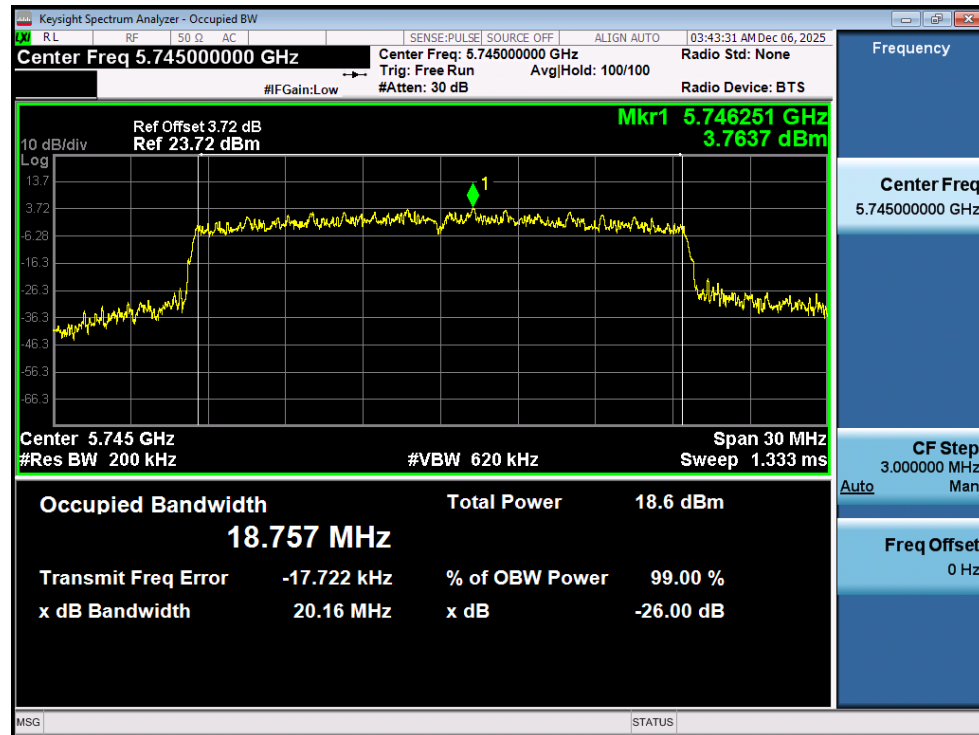
OBW NVNT ac40 5795MHz Ant B



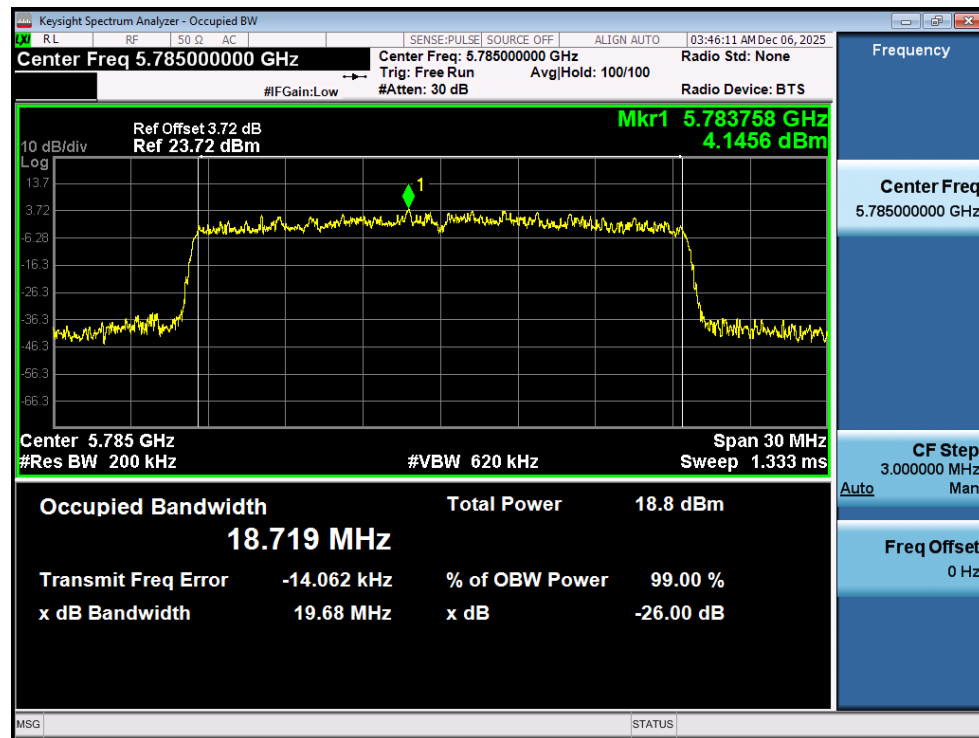
OBW NVNT ac80 5775MHz Ant B

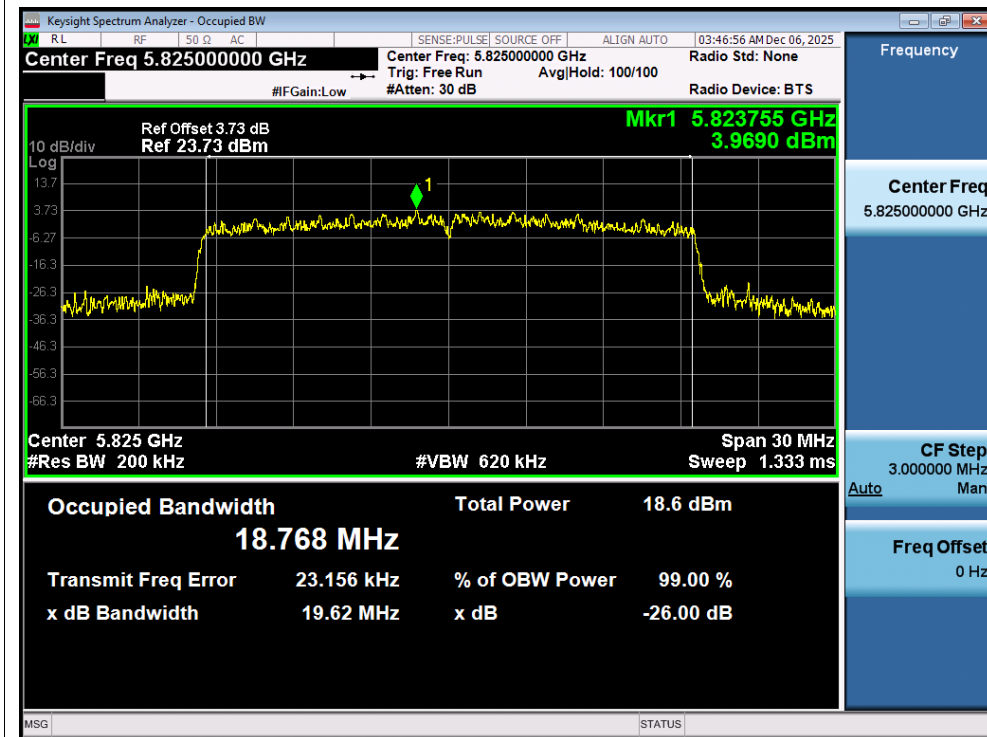


OBW NVNT ax20 5745MHz Ant B

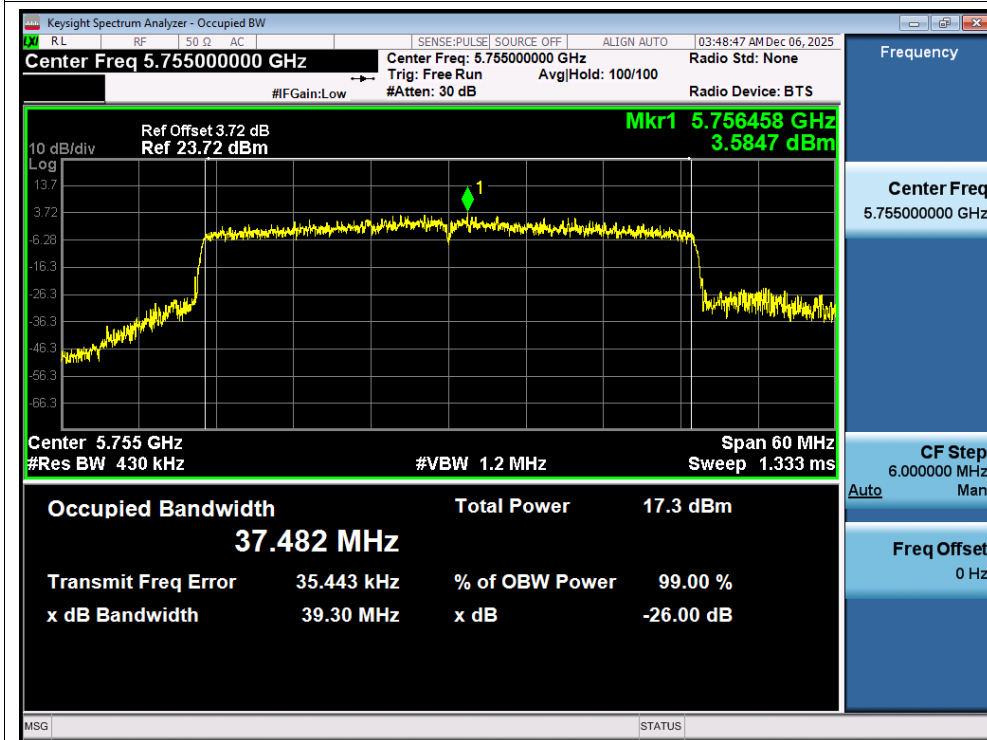


OBW NVNT ax20 5785MHz Ant B

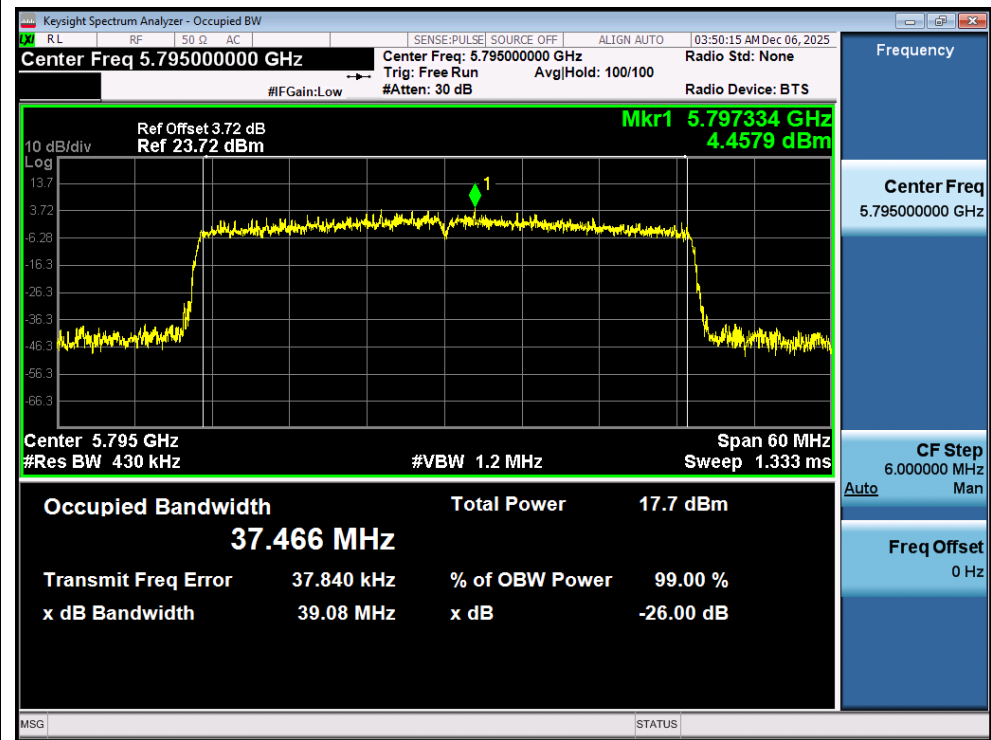




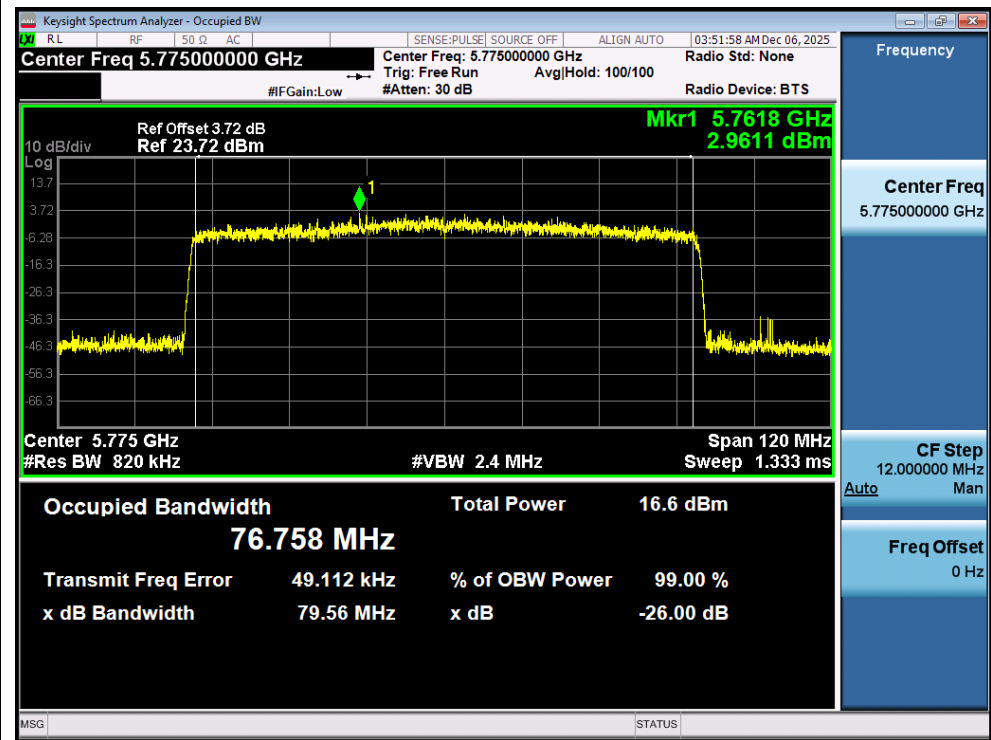
OBW NVNT ax40 5755MHz Ant B



OBW NVNT ax40 5795MHz Ant B



OBW NVNT ax80 5775MHz Ant B



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/510kHz)	Conducted PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	Ant B	-3.21	-3.296	30	Pass
NVNT	a	5785	Ant B	-3.18	-3.266	30	Pass
NVNT	a	5825	Ant B	-3.49	-3.576	30	Pass
NVNT	n20	5745	Ant B	-4.42	-4.506	30	Pass
NVNT	n20	5785	Ant B	-3.62	-3.706	30	Pass
NVNT	n20	5825	Ant B	-4.45	-4.536	30	Pass
NVNT	n40	5755	Ant B	-8.03	-8.116	30	Pass
NVNT	n40	5795	Ant B	-8.34	-8.426	30	Pass
NVNT	ac20	5745	Ant B	-4.38	-4.466	30	Pass
NVNT	ac20	5785	Ant B	-3.75	-3.836	30	Pass
NVNT	ac20	5825	Ant B	-4.69	-4.776	30	Pass
NVNT	ac40	5755	Ant B	-7.65	-7.736	30	Pass
NVNT	ac40	5795	Ant B	-7.61	-7.696	30	Pass
NVNT	ac80	5775	Ant B	-12.22	-12.306	30	Pass
NVNT	ax20	5745	Ant B	-3.5	-3.586	30	Pass
NVNT	ax20	5785	Ant B	-3.97	-4.056	30	Pass
NVNT	ax20	5825	Ant B	-3.16	-3.246	30	Pass
NVNT	ax40	5755	Ant B	-8.32	-8.406	30	Pass
NVNT	ax40	5795	Ant B	-7.57	-7.656	30	Pass
NVNT	ax80	5775	Ant B	-12.38	-12.466	30	Pass

Condition	Mode	Frequency (MHz)	Ant A Conducted PSD (dBm/500kHz)	Ant B Conducted PSD (dBm/500kHz)	Total Conducted PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	-3.556	-3.296	/	30	Pass
NVNT	a	5785	-2.626	-3.266	/	30	Pass
NVNT	a	5825	-2.986	-3.576	/	30	Pass
NVNT	n20	5745	-4.346	-4.506	-1.41	29.72	Pass
NVNT	n20	5785	-3.716	-3.706	-0.70	29.72	Pass
NVNT	n20	5825	-3.166	-4.536	-0.79	29.72	Pass
NVNT	n40	5755	-8.316	-8.116	-5.20	29.72	Pass
NVNT	n40	5795	-8.626	-8.426	-5.51	29.72	Pass
NVNT	ac20	5745	-4.146	-4.466	-1.29	29.72	Pass
NVNT	ac20	5785	-3.646	-3.836	-0.73	29.72	Pass
NVNT	ac20	5825	-3.316	-4.776	-0.97	29.72	Pass
NVNT	ac40	5755	-8.036	-7.736	-4.87	29.72	Pass
NVNT	ac40	5795	-7.456	-7.696	-4.56	29.72	Pass
NVNT	ac80	5775	-12.446	-12.306	-9.37	29.72	Pass
NVNT	ax20	5745	-3.076	-3.586	-0.31	29.72	Pass
NVNT	ax20	5785	-3.136	-4.056	-0.56	29.72	Pass
NVNT	ax20	5825	-2.806	-3.246	-0.01	29.72	Pass
NVNT	ax40	5755	-8.246	-8.406	-5.31	29.72	Pass
NVNT	ax40	5795	-7.786	-7.656	-4.71	29.72	Pass
NVNT	ax80	5775	-11.856	-12.466	-9.14	29.72	Pass

Note:

Antenna A gain: 3.05 dBi, Antenna B gain: 3.27dBi

For power spectral density(PSD) measurements,

Array Gain=10log(NANT/NSS)dB=10log(2/1)=3.01 dBi,

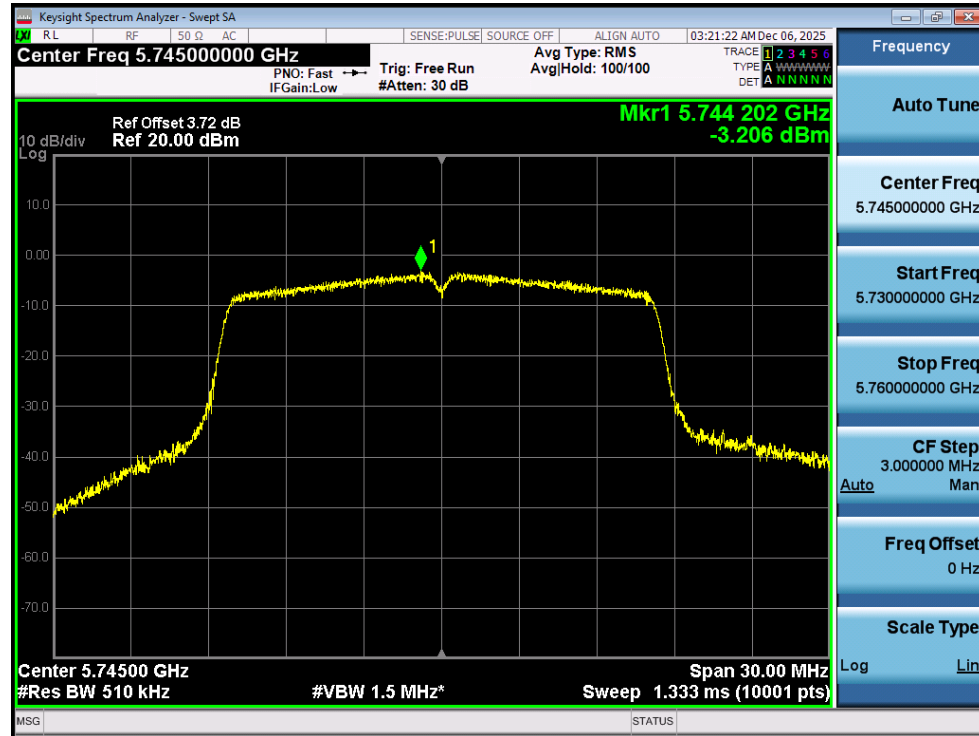
So the directional gain for PSD is 6.28 dBi >6dbi

Limit=30-(6.28-6)=29.72 dbm

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

Test Graphs

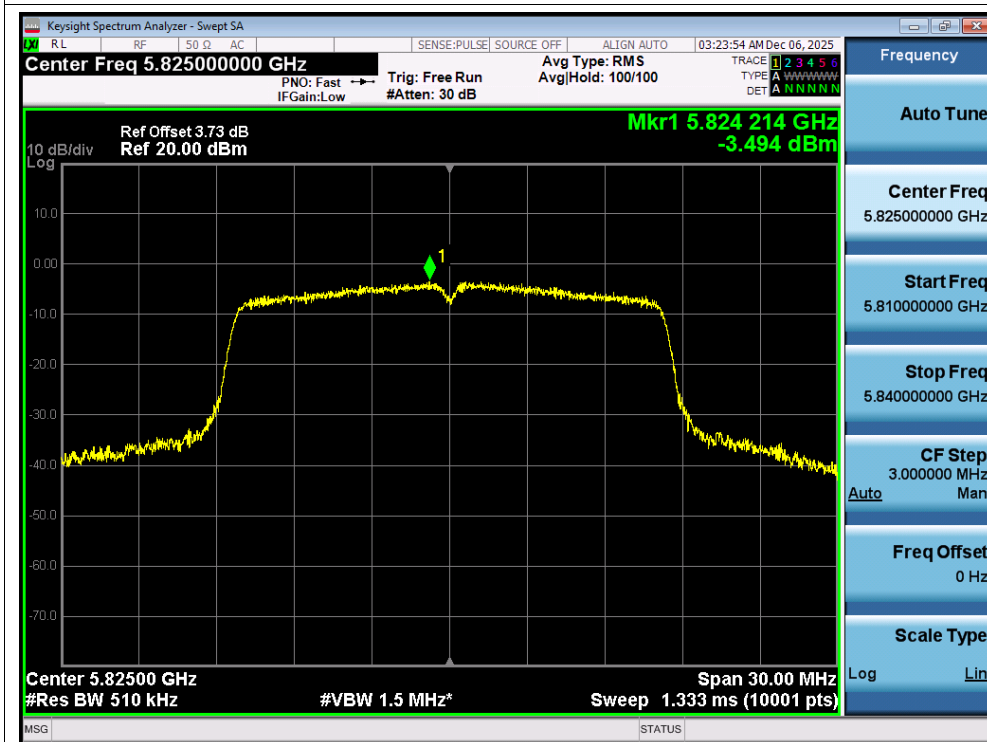
PSD NVNT a 5745MHz Ant B



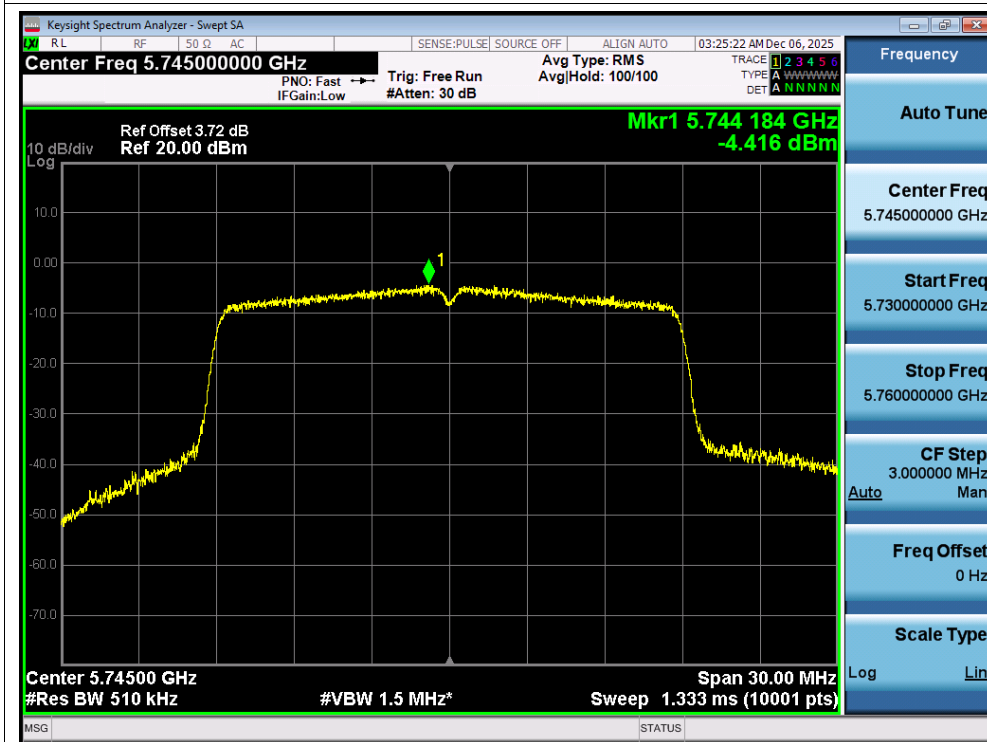
PSD NVNT a 5785MHz Ant B



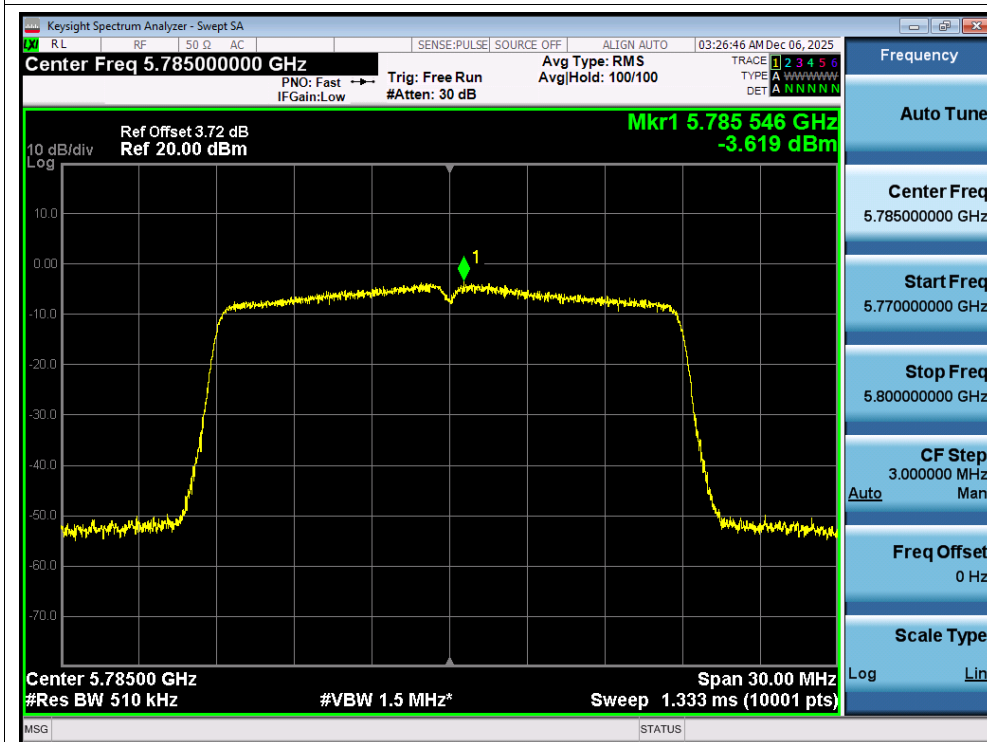
PSD NVNT a 5825MHz Ant B



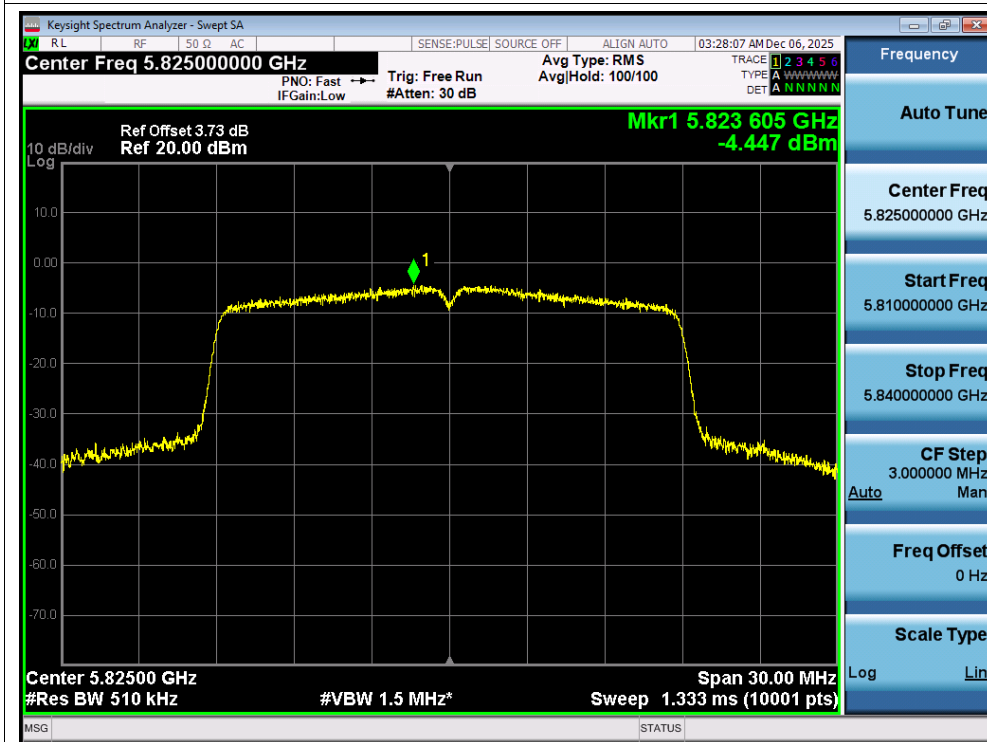
PSD NVNT n20 5745MHz Ant B



PSD NVNT n20 5785MHz Ant B



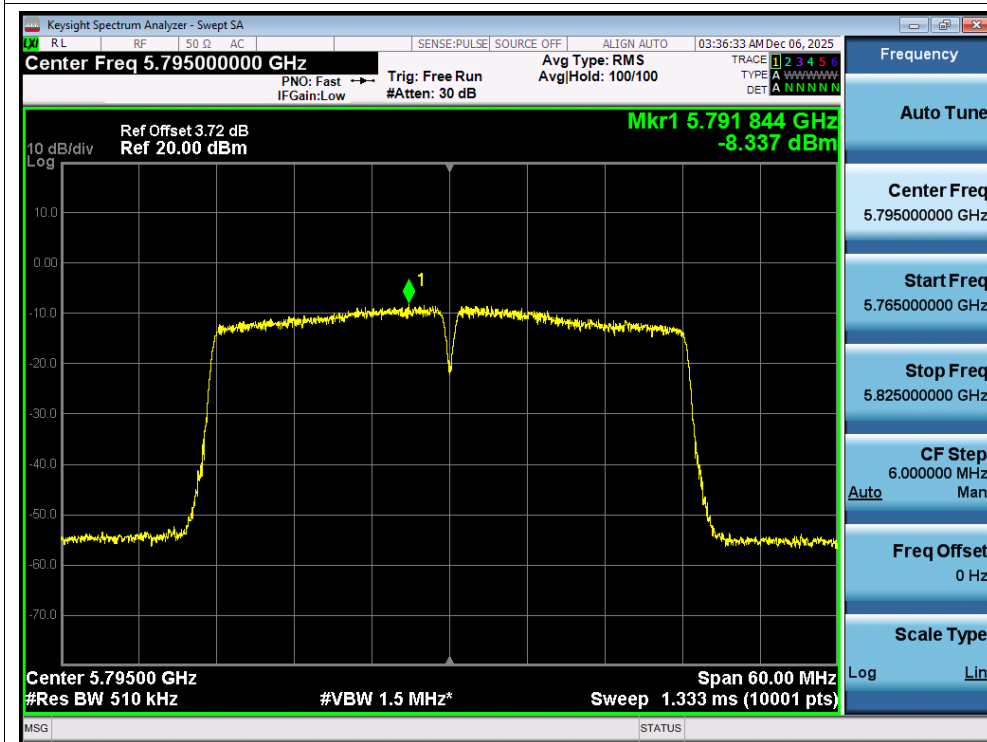
PSD NVNT n20 5825MHz Ant B



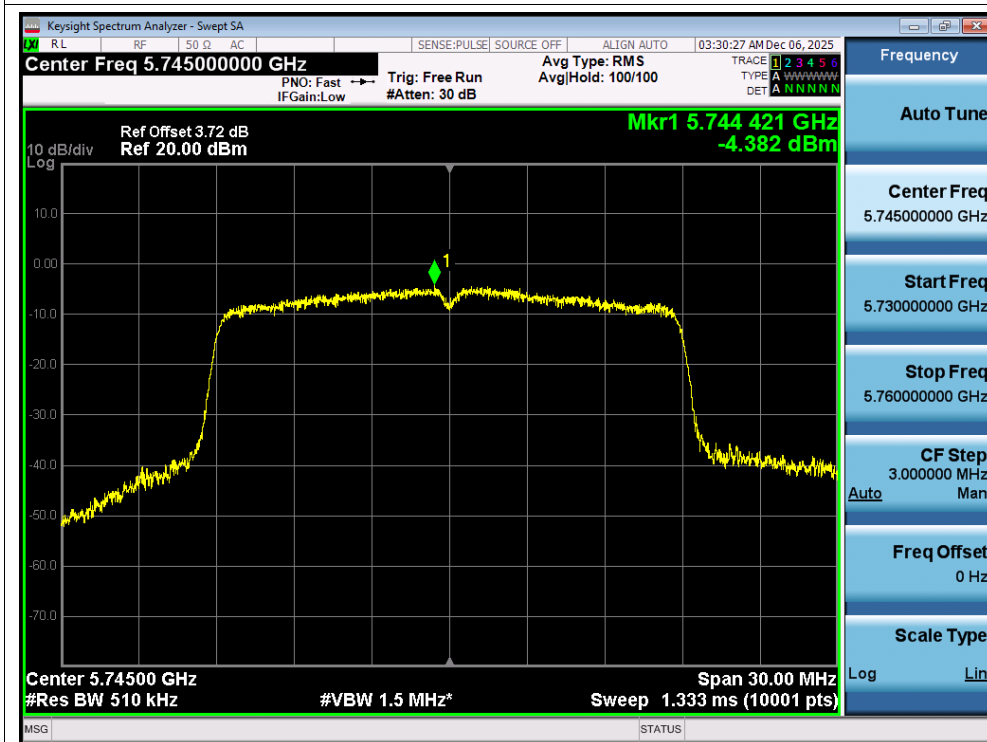
PSD NVNT n40 5755MHz Ant B



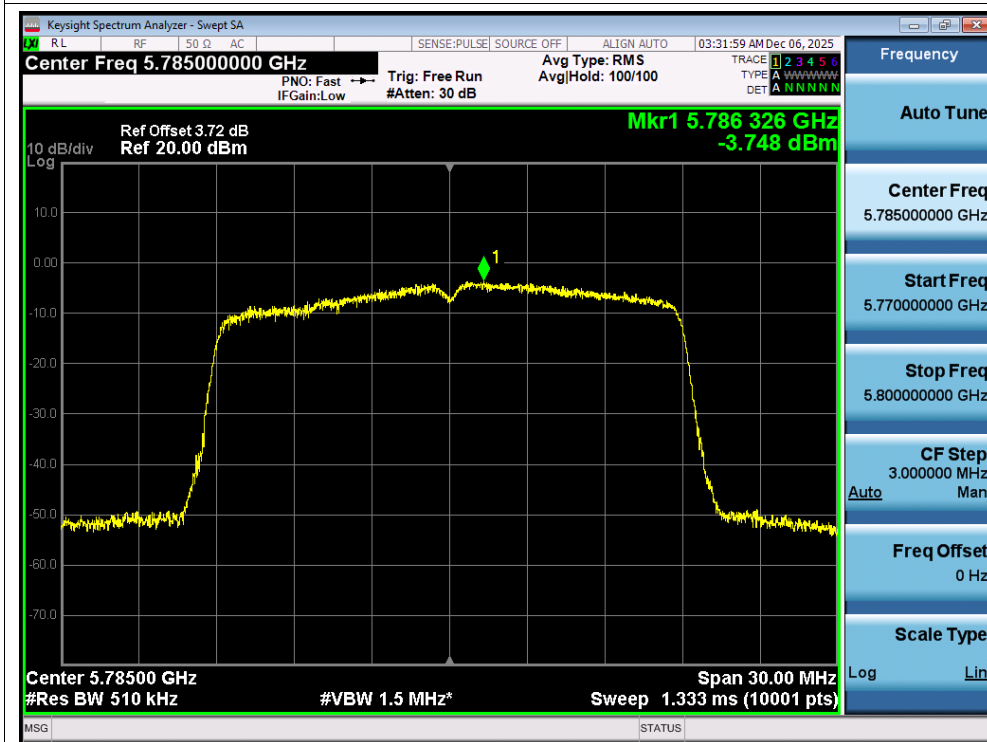
PSD NVNT n40 5795MHz Ant B



PSD NVNT ac20 5745MHz Ant B



PSD NVNT ac20 5785MHz Ant B



PSD NVNT ac20 5825MHz Ant B



PSD NVNT ac40 5755MHz Ant B

