

Appendix B for 5.8GWIFI Test Data

Product Name: Mini Camera

Test Model: SK23, Y40

Environmental Conditions

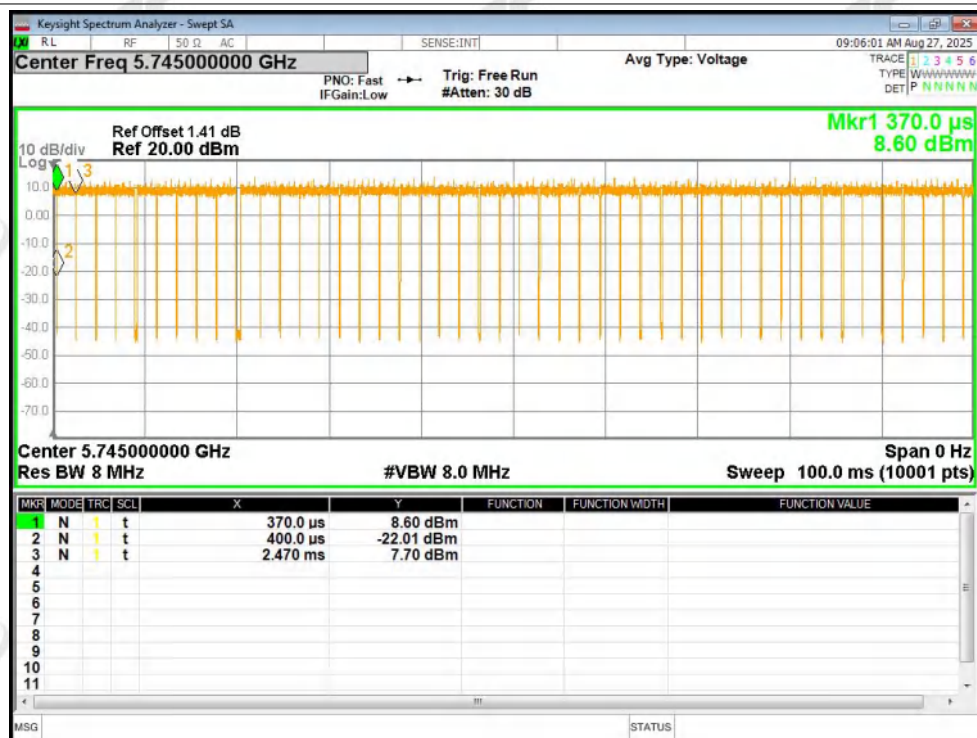
Temperature:	25.4℃
Relative Humidity:	54.3%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

Duty Cycle

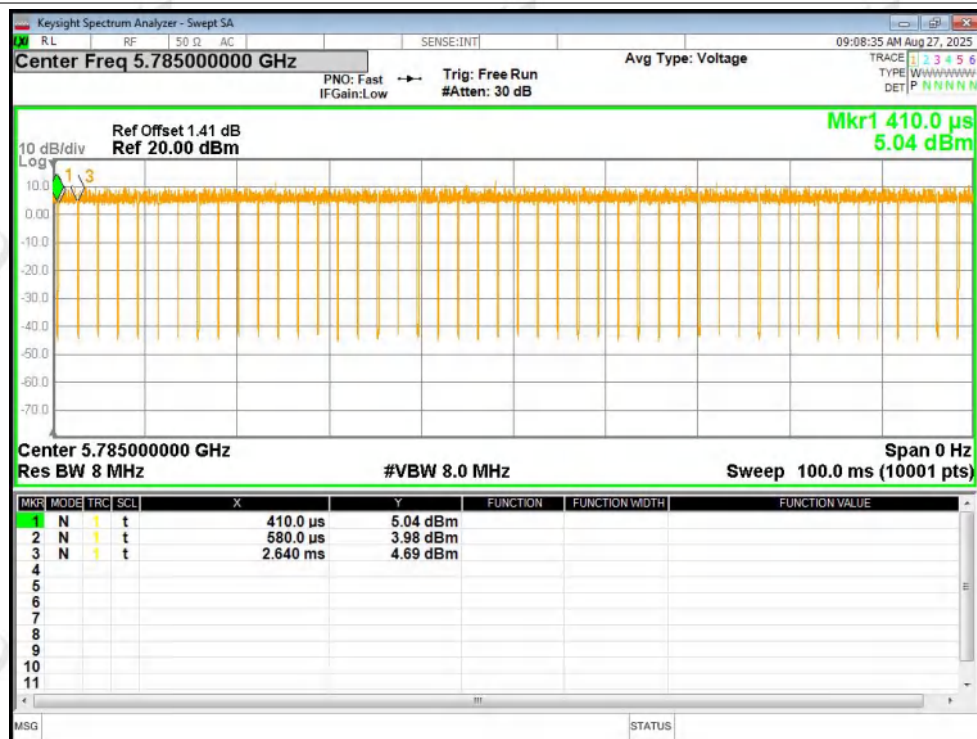
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	98.57	0	0.48
NVNT	a	5785	Ant1	92.38	0.34	0.49
NVNT	a	5825	Ant1	97.64	0.1	0.48
NVNT	n20	5745	Ant1	96.02	0.18	0.52
NVNT	n20	5785	Ant1	97.46	0.11	0.52
NVNT	n20	5825	Ant1	97.46	0.11	0.52
NVNT	n40	5755	Ant1	88.68	0.52	1.06
NVNT	n40	5795	Ant1	86.36	0.64	1.05
NVNT	ac20	5745	Ant1	96.98	0.13	0.52
NVNT	ac20	5785	Ant1	95.07	0.22	0.52
NVNT	ac20	5825	Ant1	97.97	0.09	0.52
NVNT	ac40	5755	Ant1	86.49	0.63	1.04
NVNT	ac40	5795	Ant1	90.48	0.43	1.05
NVNT	ac80	5775	Ant1	73.02	1.37	2.17
NVNT	ax20	5745	Ant1	95.54	0.2	0.52
NVNT	ax20	5785	Ant1	91.94	0.36	0.52
NVNT	ax20	5825	Ant1	92.34	0.35	0.52
NVNT	ax40	5755	Ant1	89.62	0.48	1.05
NVNT	ax40	5795	Ant1	84.82	0.72	1.05
NVNT	ax80	5775	Ant1	90.2	0.45	2.17

Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

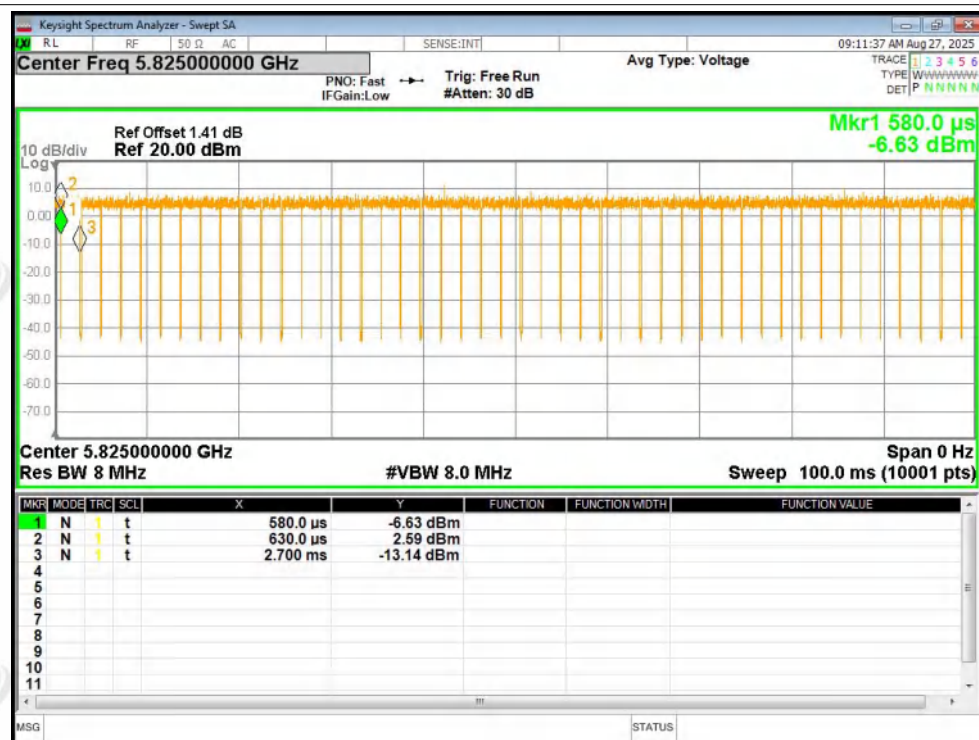


Duty Cycle NVNT a 5785MHz Ant1





Duty Cycle NVNT a 5825MHz Ant1

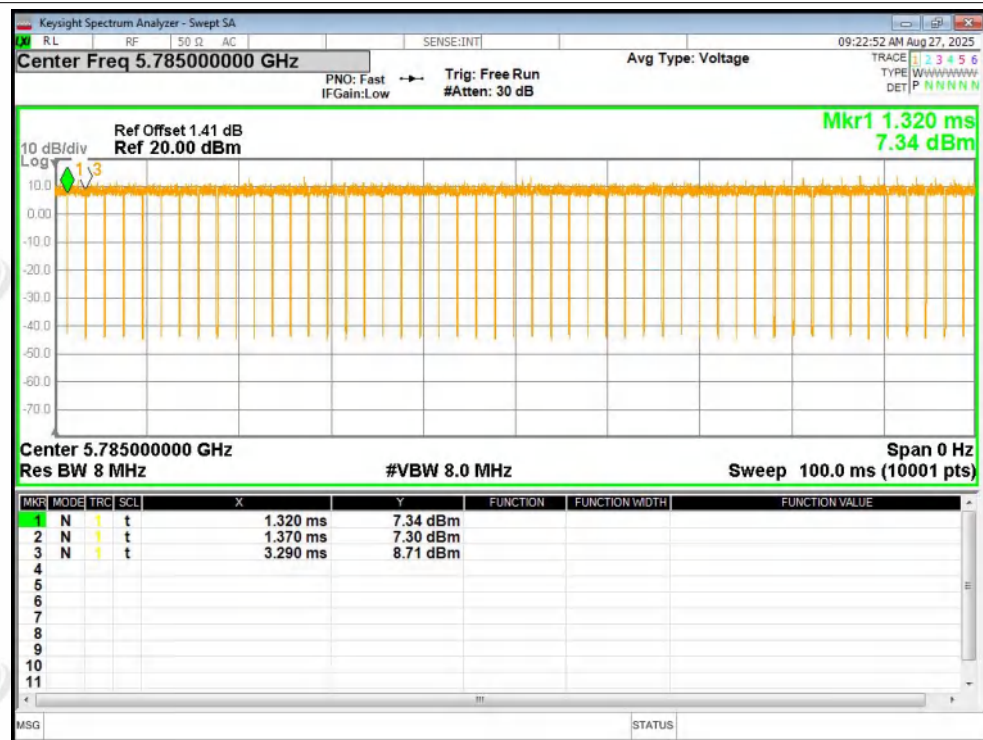


Duty Cycle NVNT n20 5745MHz Ant1

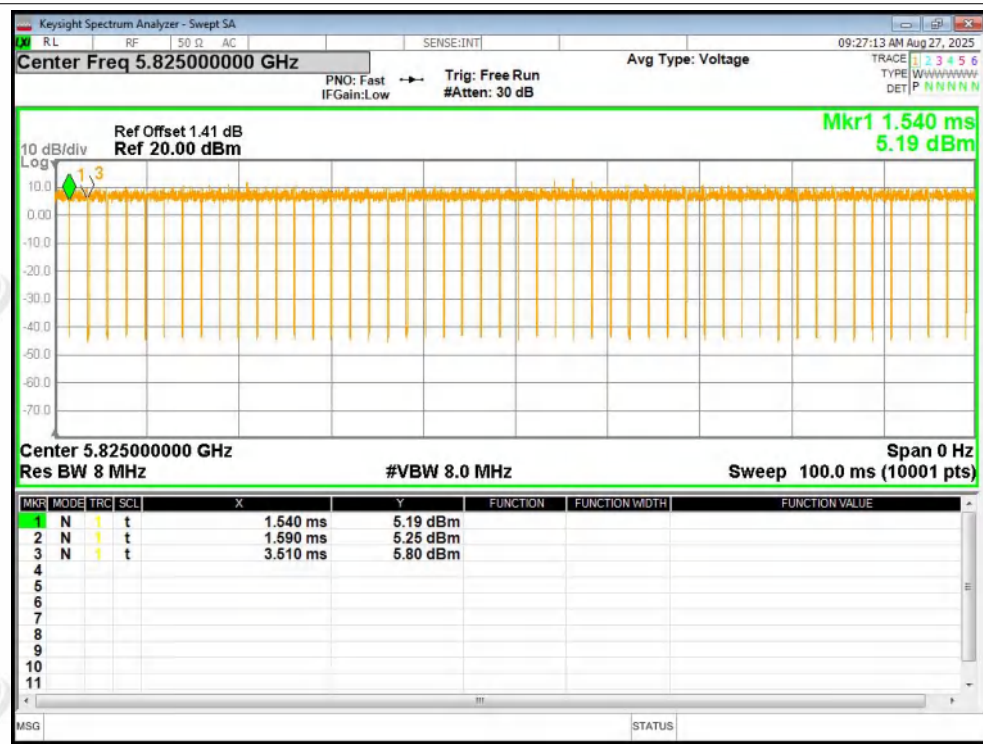




Duty Cycle NVNT n20 5785MHz Ant1

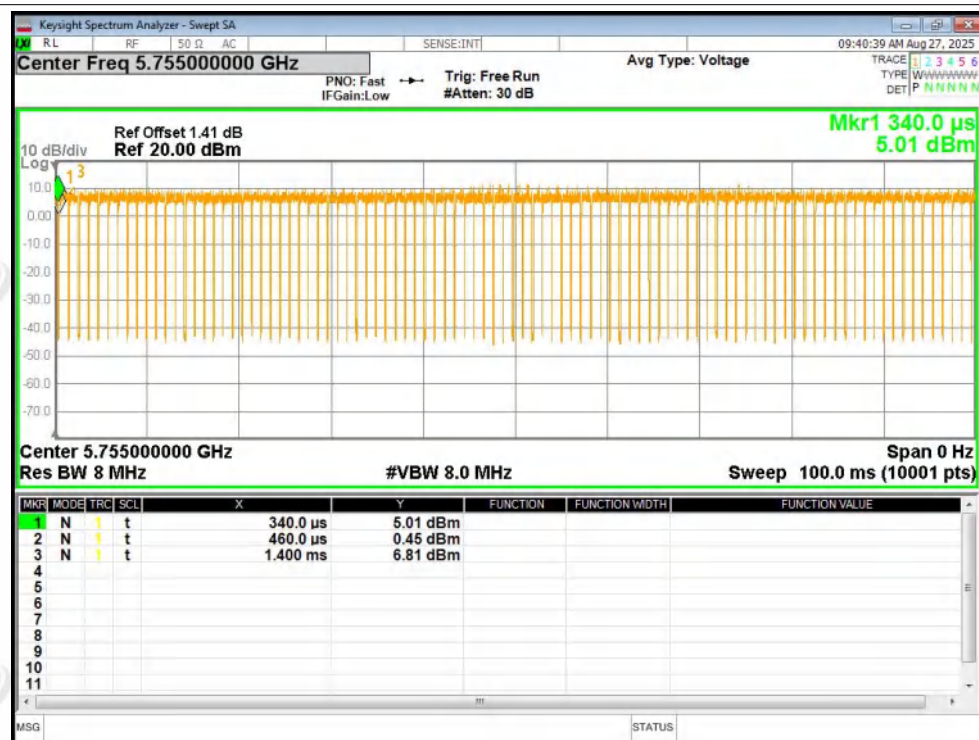


Duty Cycle NVNT n20 5825MHz Ant1

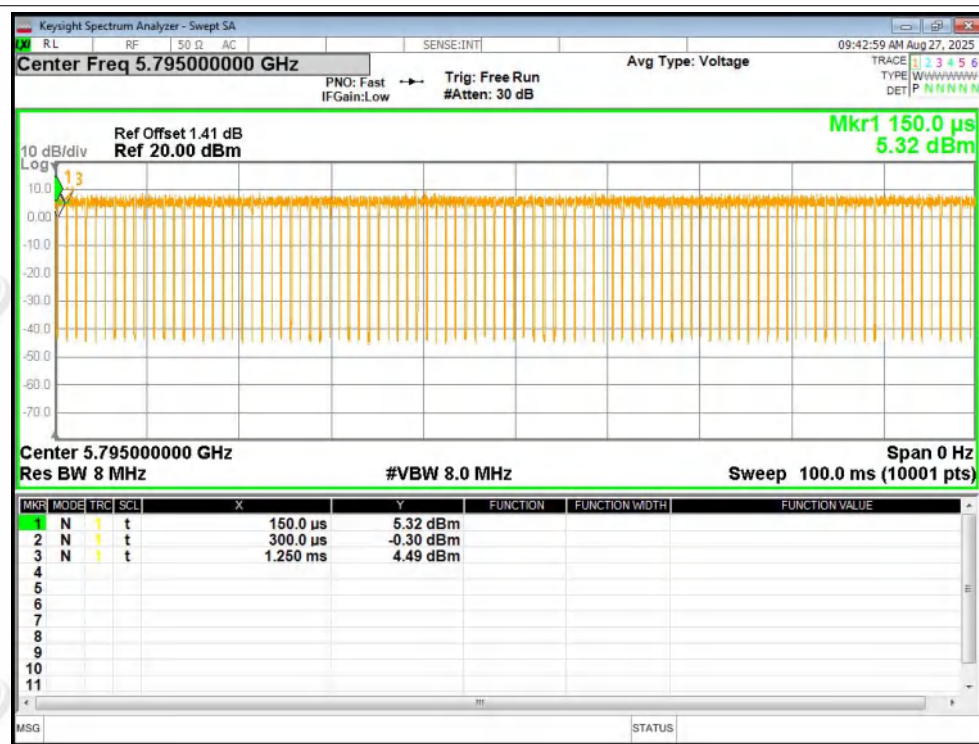




Duty Cycle NVNT n40 5755MHz Ant1

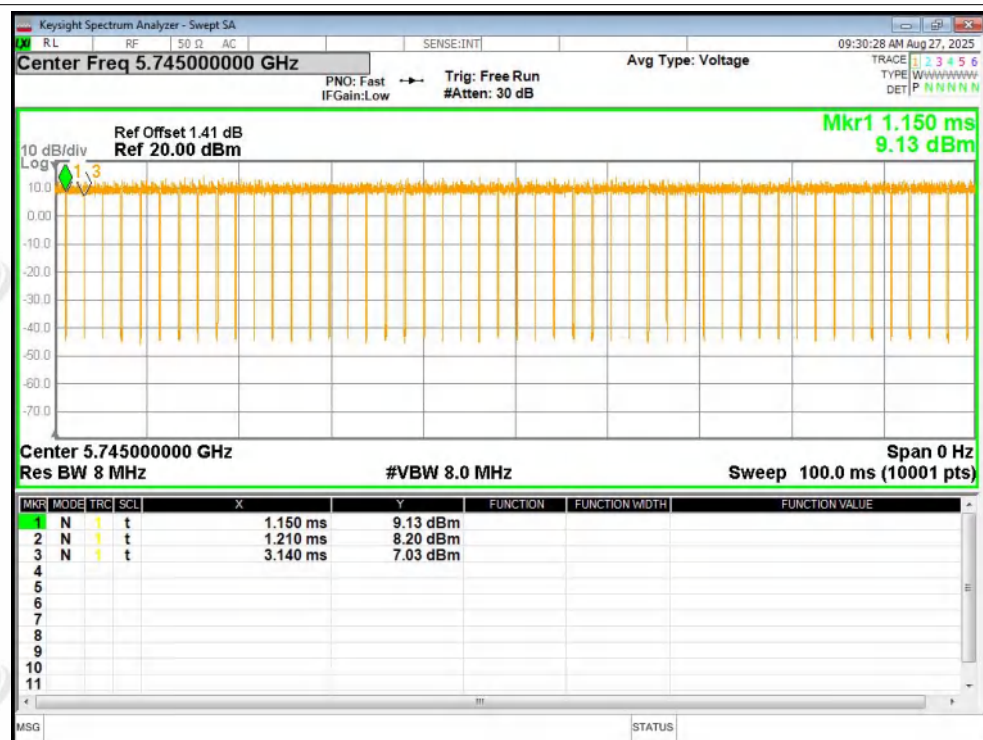


Duty Cycle NVNT n40 5795MHz Ant1

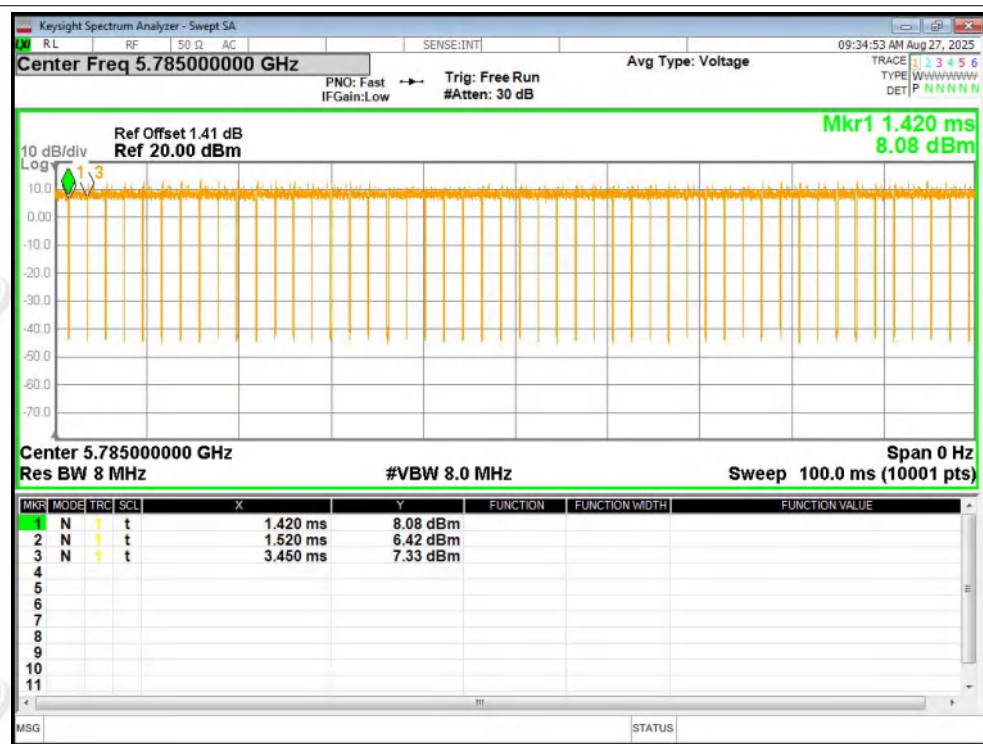




Duty Cycle NVNT ac20 5745MHz Ant1

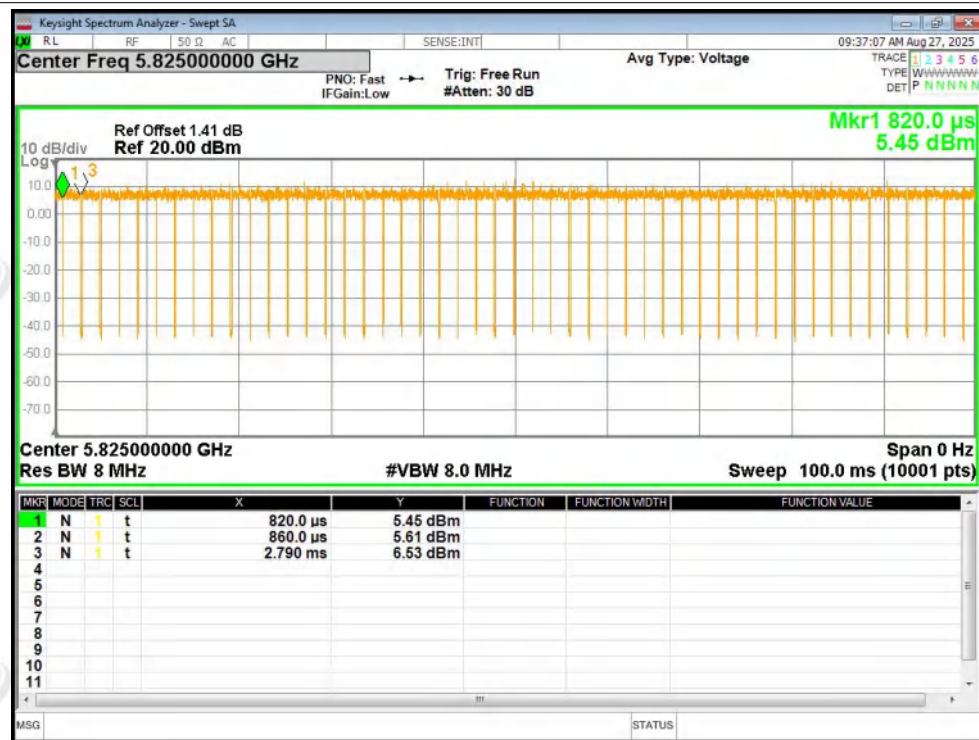


Duty Cycle NVNT ac20 5785MHz Ant1

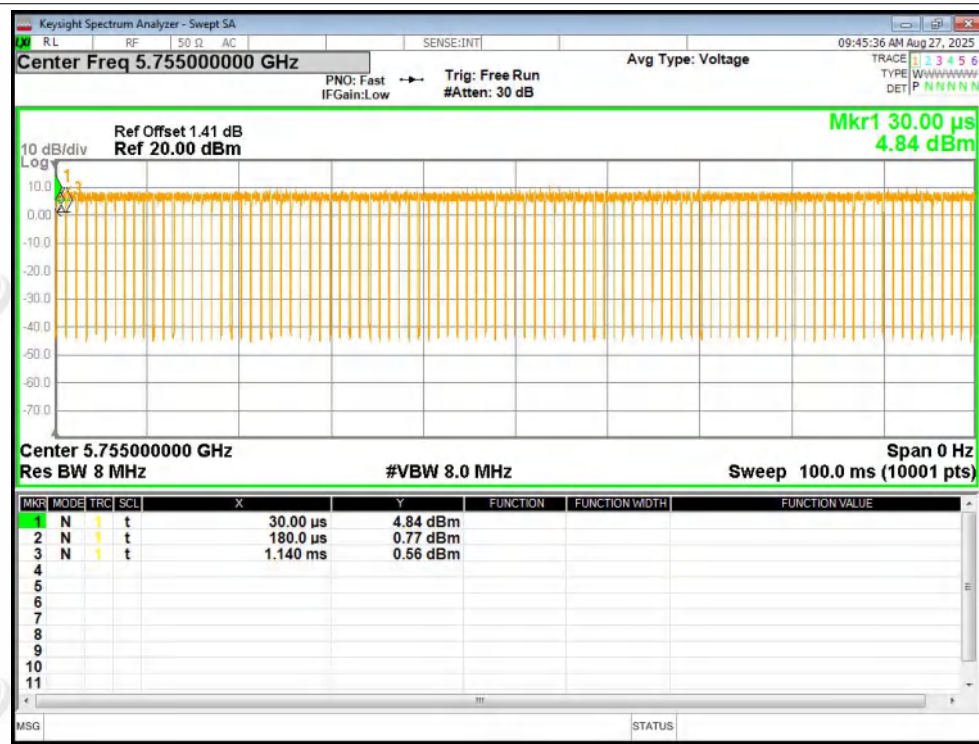




Duty Cycle NVNT ac20 5825MHz Ant1

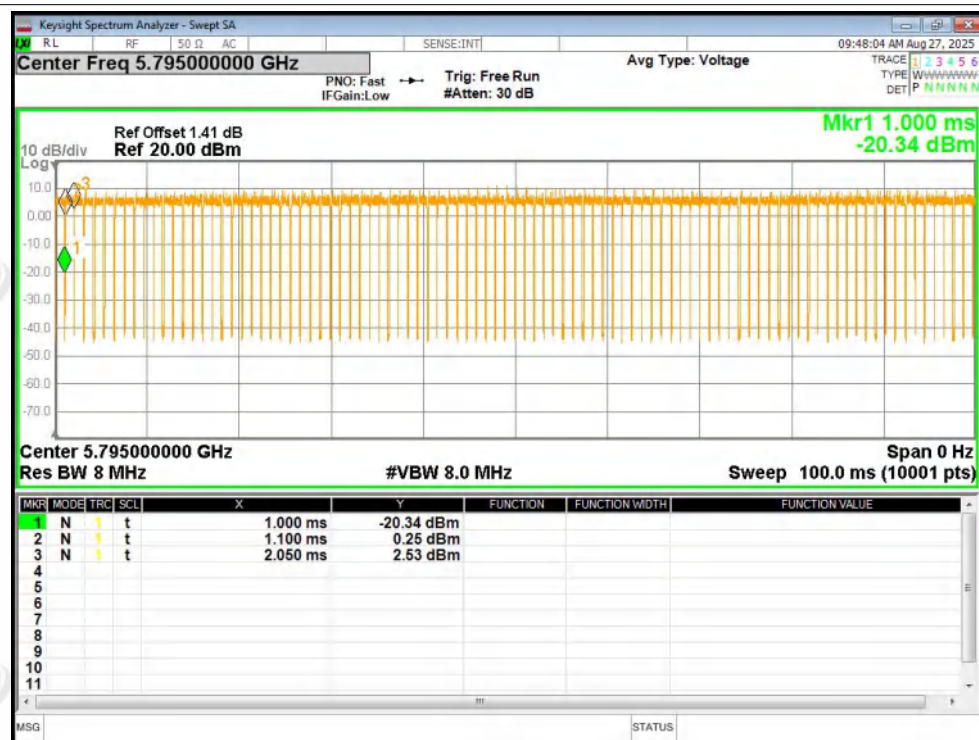


Duty Cycle NVNT ac40 5755MHz Ant1

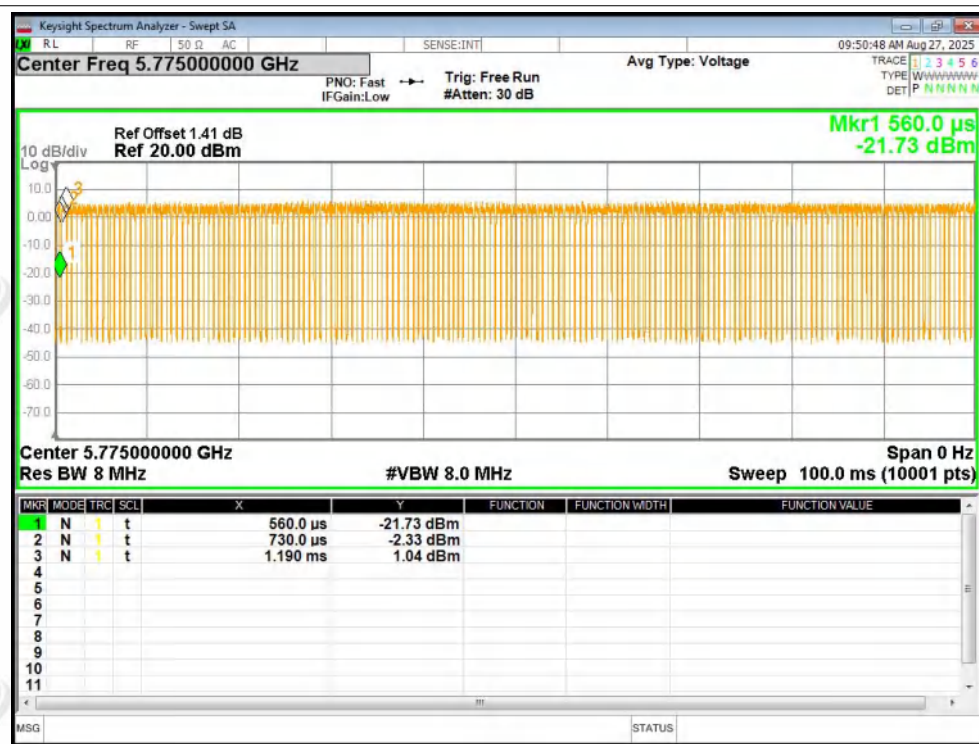




Duty Cycle NVNT ac40 5795MHz Ant1

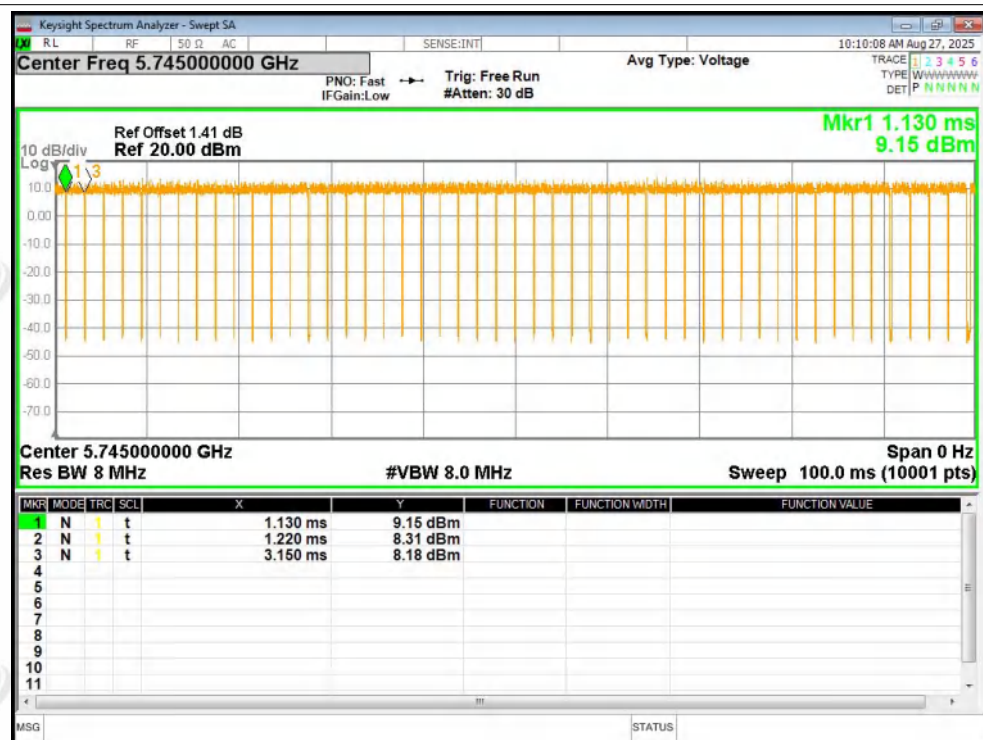


Duty Cycle NVNT ac80 5775MHz Ant1

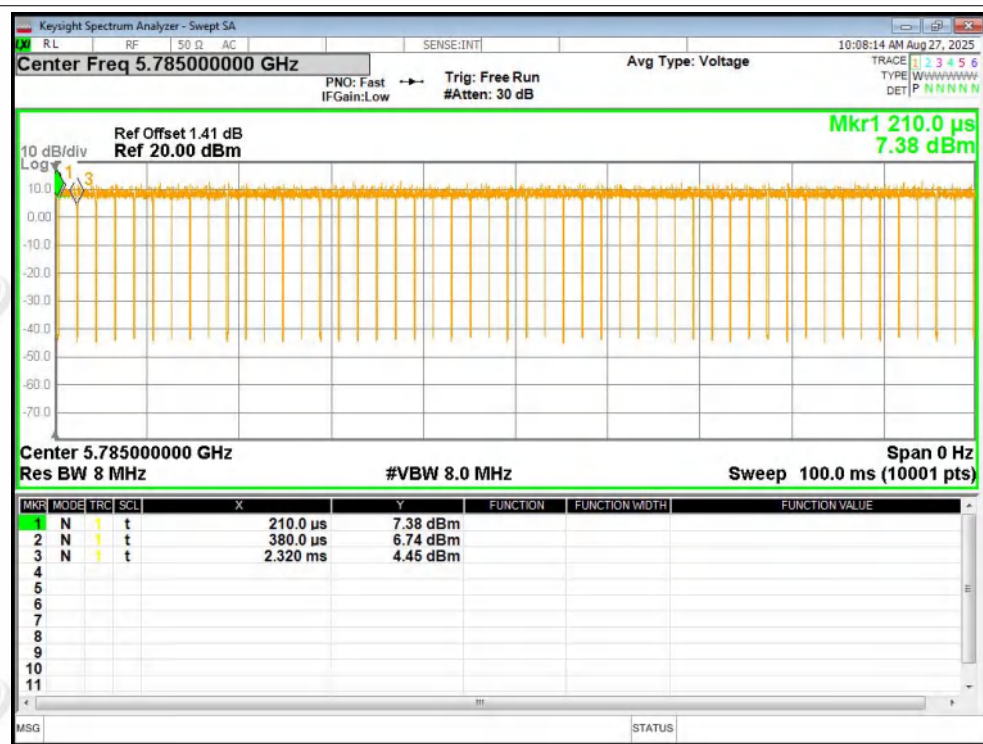




Duty Cycle NVNT ax20 5745MHz Ant1



Duty Cycle NVNT ax20 5785MHz Ant1





Duty Cycle NVNT ax20 5825MHz Ant1



Duty Cycle NVNT ax40 5755MHz Ant1

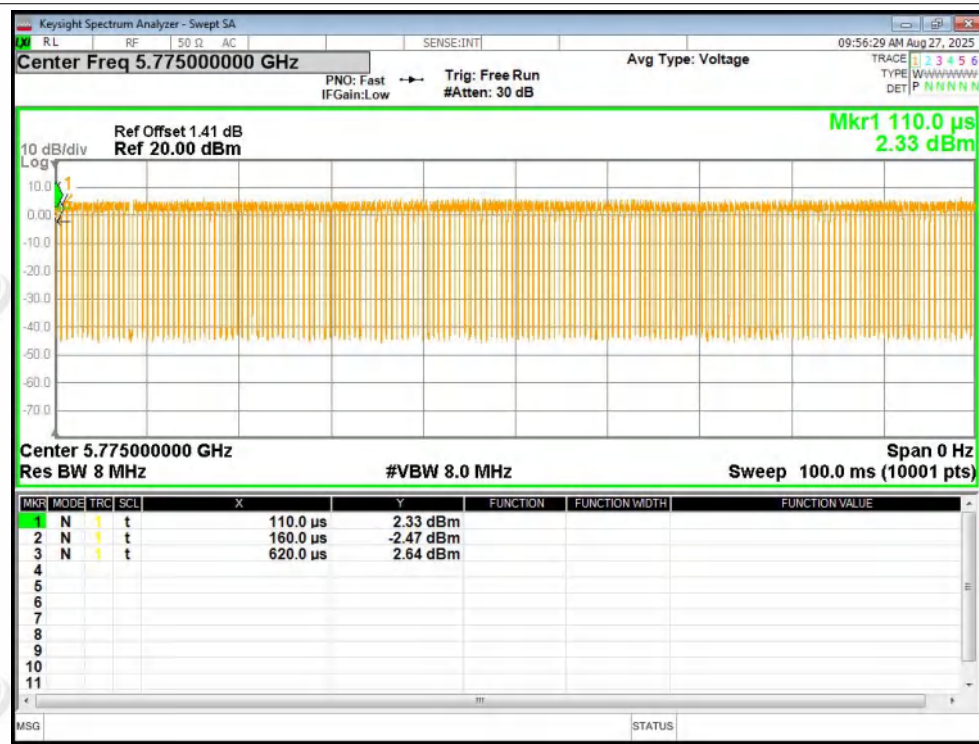




Duty Cycle NVNT ax40 5795MHz Ant1



Duty Cycle NVNT ax80 5775MHz Ant1



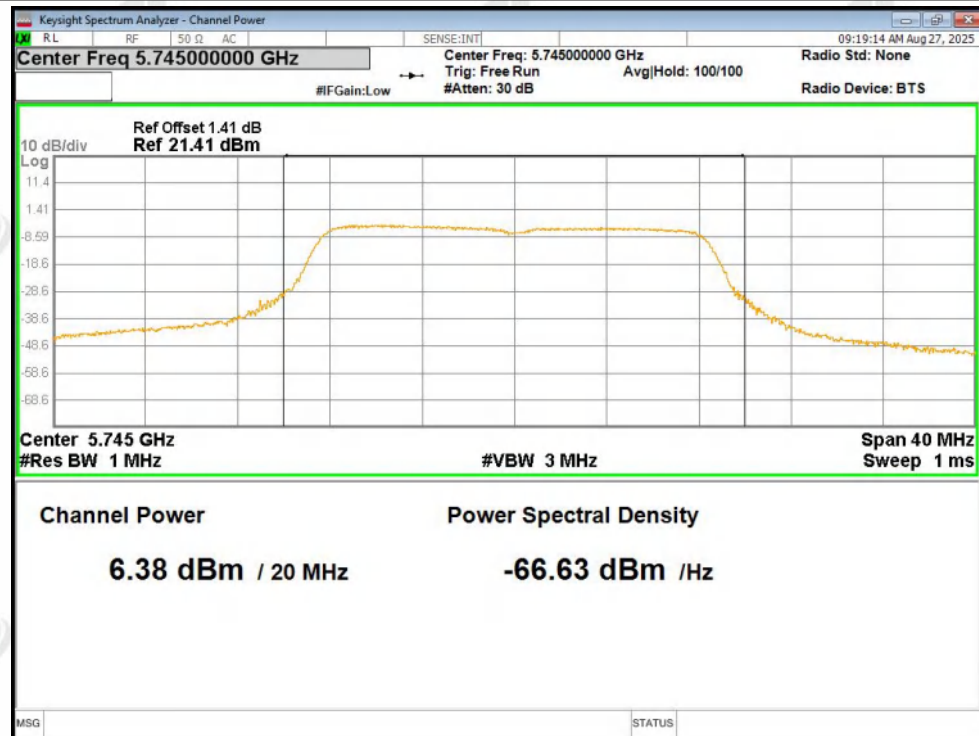
**ZHONGHAN****Maximum Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.38	0	6.38	30	Pass
NVNT	a	5785	Ant1	5.17	0.34	5.51	30	Pass
NVNT	a	5825	Ant1	3.93	0.1	4.03	30	Pass
NVNT	n20	5745	Ant1	6.44	0.18	6.62	30	Pass
NVNT	n20	5785	Ant1	5.02	0.11	5.13	30	Pass
NVNT	n20	5825	Ant1	3.64	0.11	3.75	30	Pass
NVNT	n40	5755	Ant1	6.03	0.52	6.55	30	Pass
NVNT	n40	5795	Ant1	4.83	0.64	5.47	30	Pass
NVNT	ac20	5745	Ant1	6.24	0.13	6.37	30	Pass
NVNT	ac20	5785	Ant1	4.86	0.22	5.08	30	Pass
NVNT	ac20	5825	Ant1	3.59	0.09	3.68	30	Pass
NVNT	ac40	5755	Ant1	5.99	0.63	6.62	30	Pass
NVNT	ac40	5795	Ant1	4.63	0.43	5.06	30	Pass
NVNT	ac80	5775	Ant1	5.39	1.37	6.76	30	Pass
NVNT	ax20	5745	Ant1	6.14	0.2	6.34	30	Pass
NVNT	ax20	5785	Ant1	4.82	0.36	5.18	30	Pass
NVNT	ax20	5825	Ant1	3.66	0.35	4.01	30	Pass
NVNT	ax40	5755	Ant1	6.15	0.48	6.63	30	Pass
NVNT	ax40	5795	Ant1	4.81	0.72	5.53	30	Pass
NVNT	ax80	5775	Ant1	5.48	0.45	5.93	30	Pass

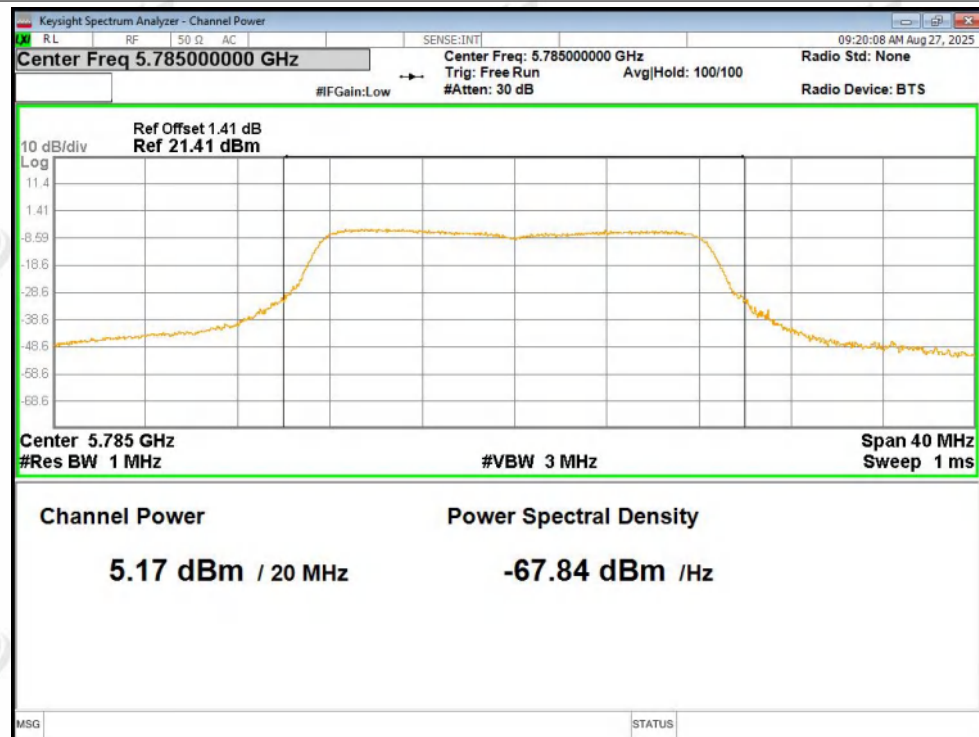


Test Graphs

Power NVNT a 5745MHz Ant1

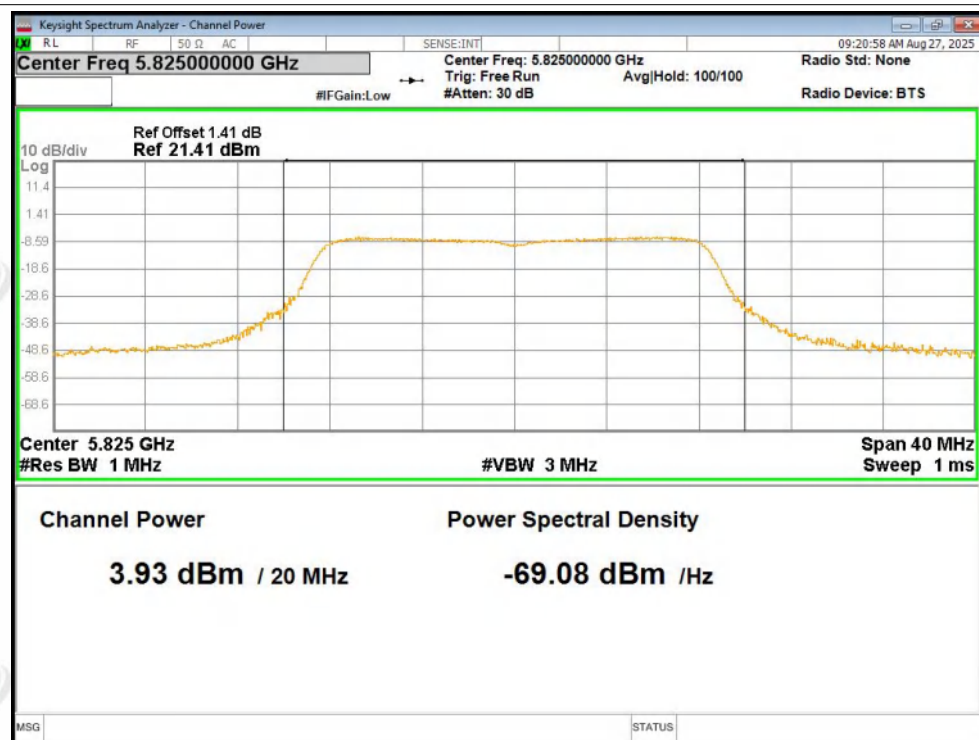


Power NVNT a 5785MHz Ant1

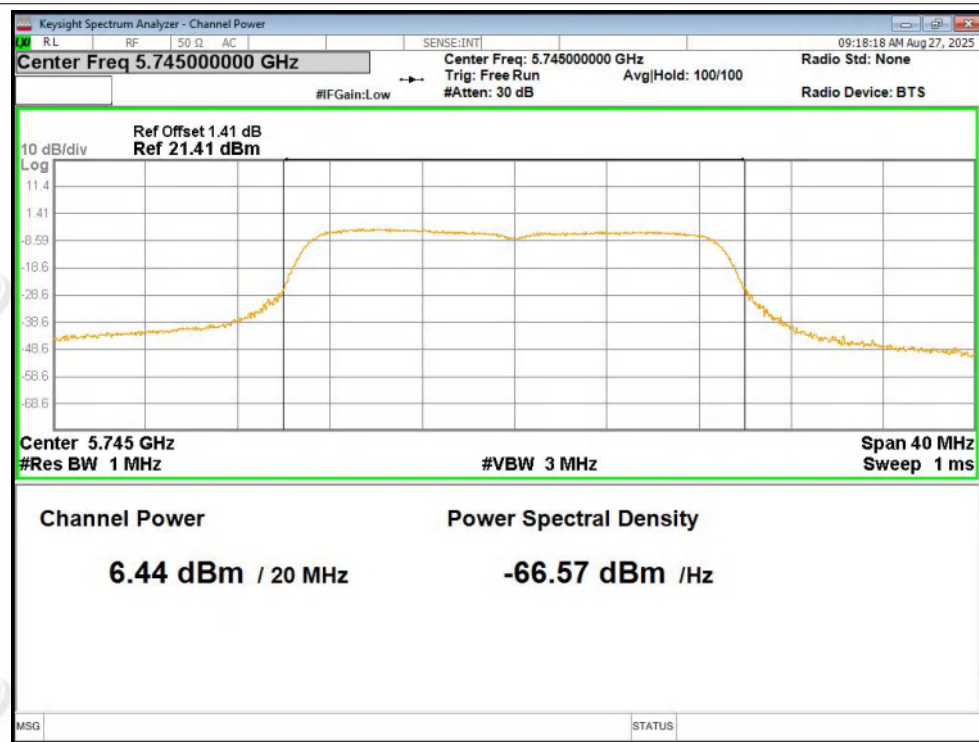




Power NVNT a 5825MHz Ant1

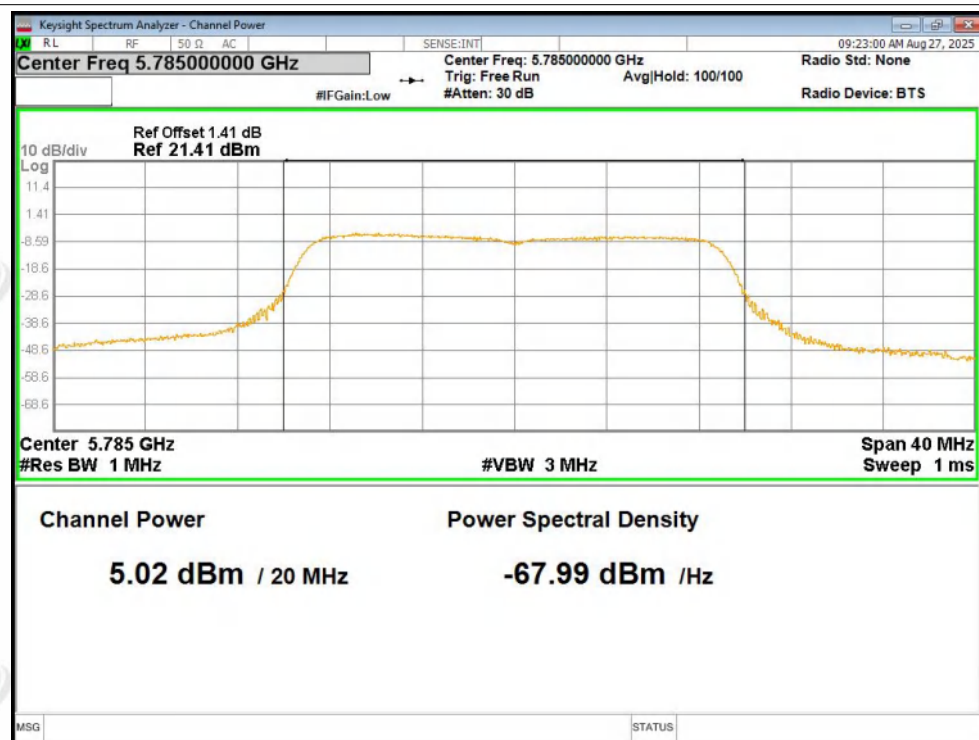


Power NVNT n20 5745MHz Ant1





Power NVNT n20 5785MHz Ant1

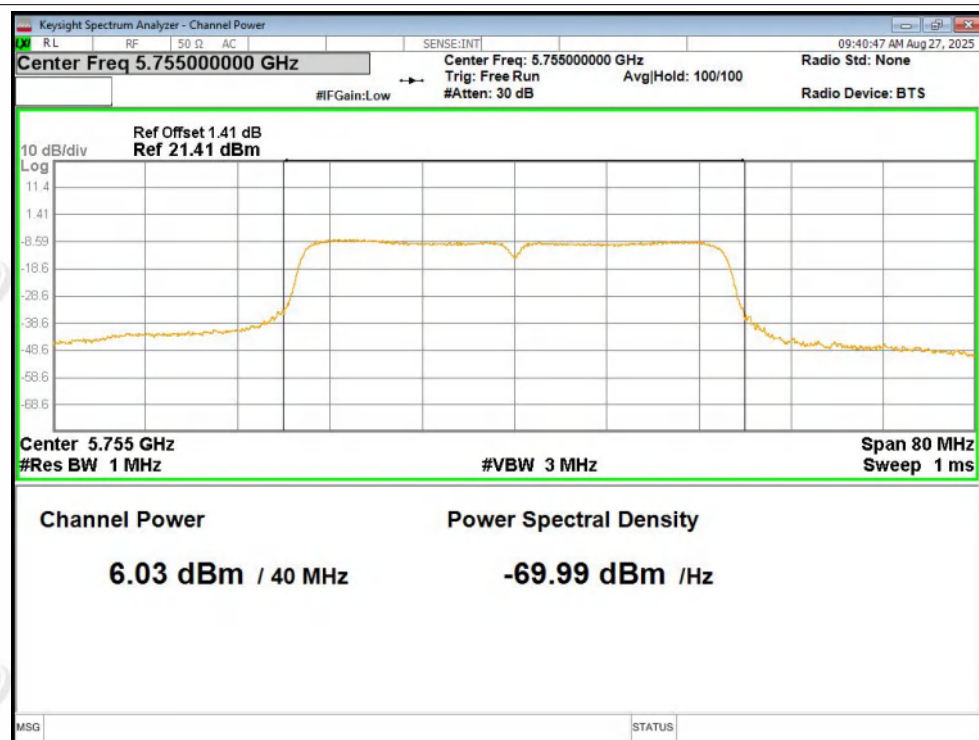


Power NVNT n20 5825MHz Ant1

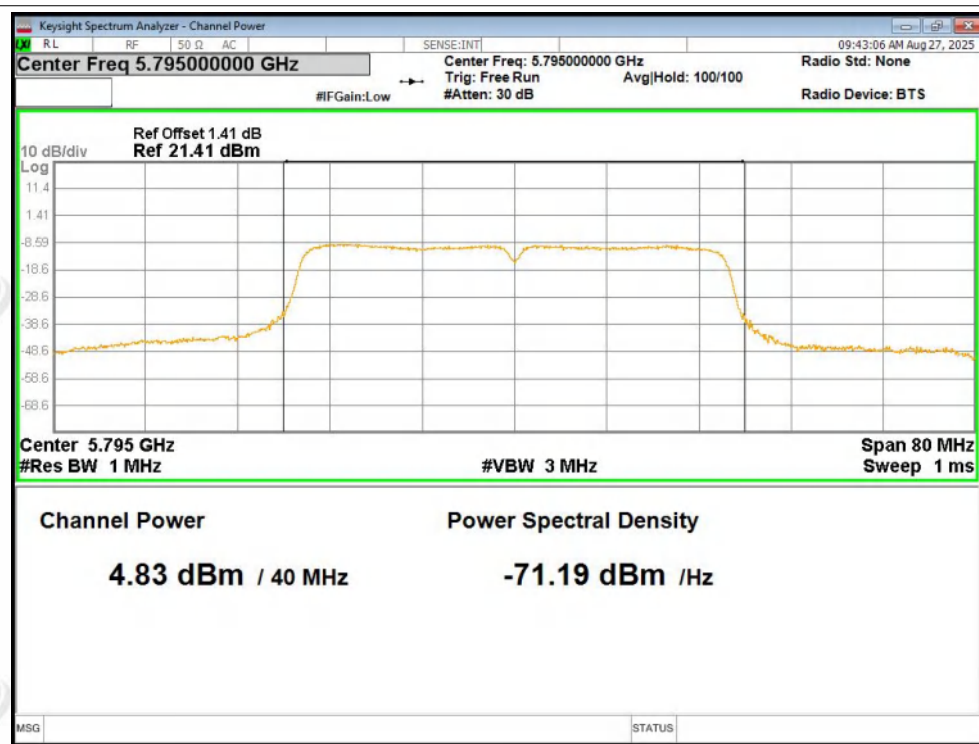




Power NVNT n40 5755MHz Ant1

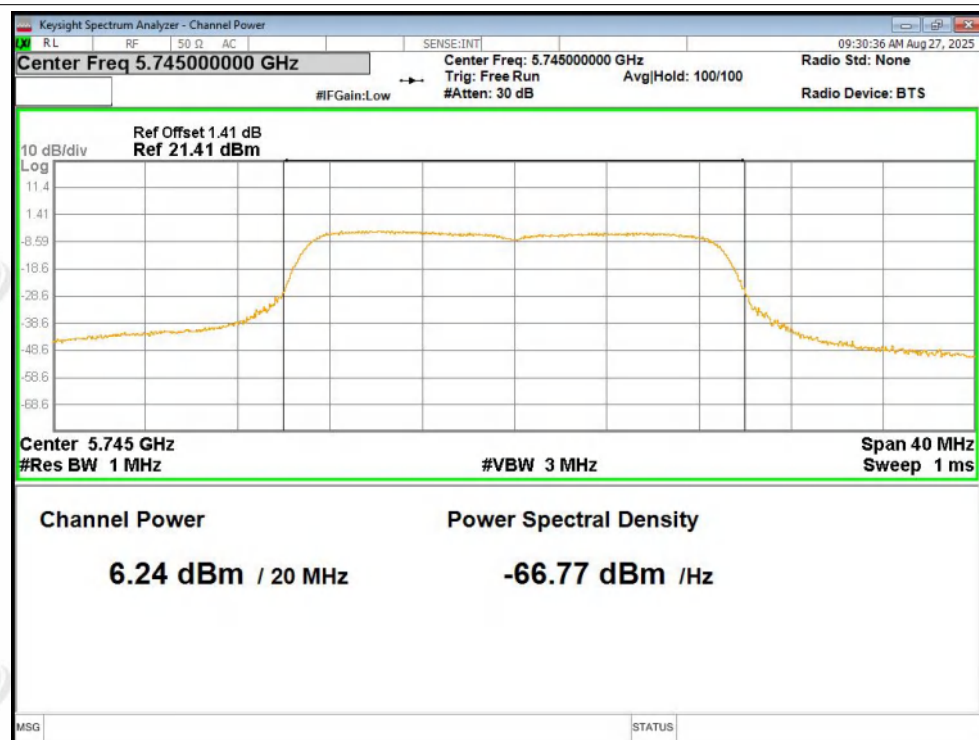


Power NVNT n40 5795MHz Ant1

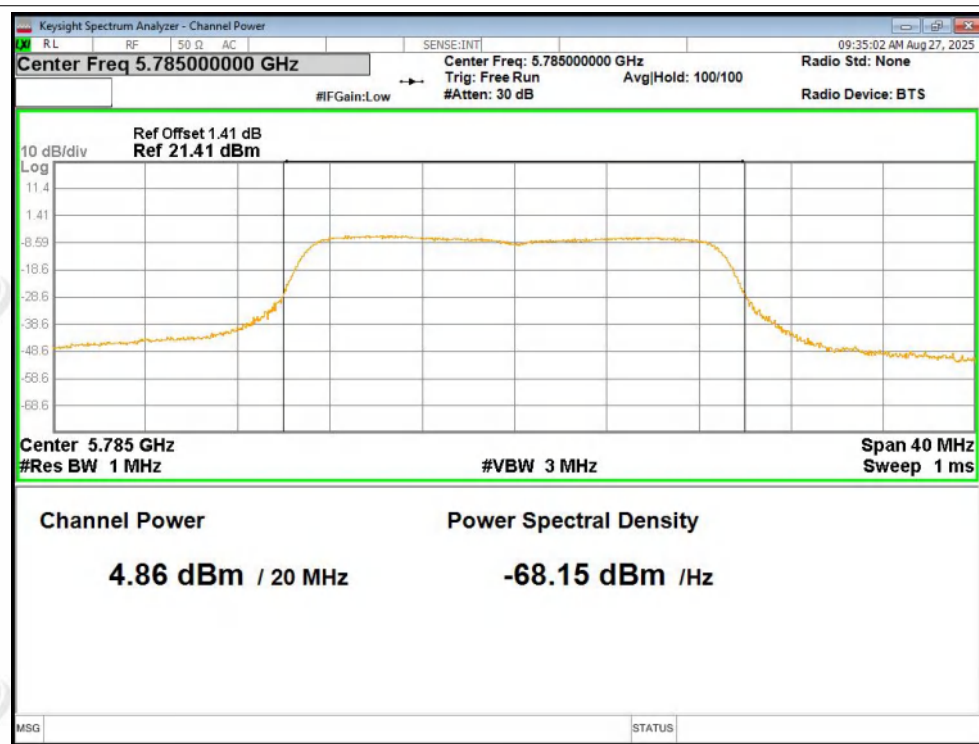




Power NVNT ac20 5745MHz Ant1

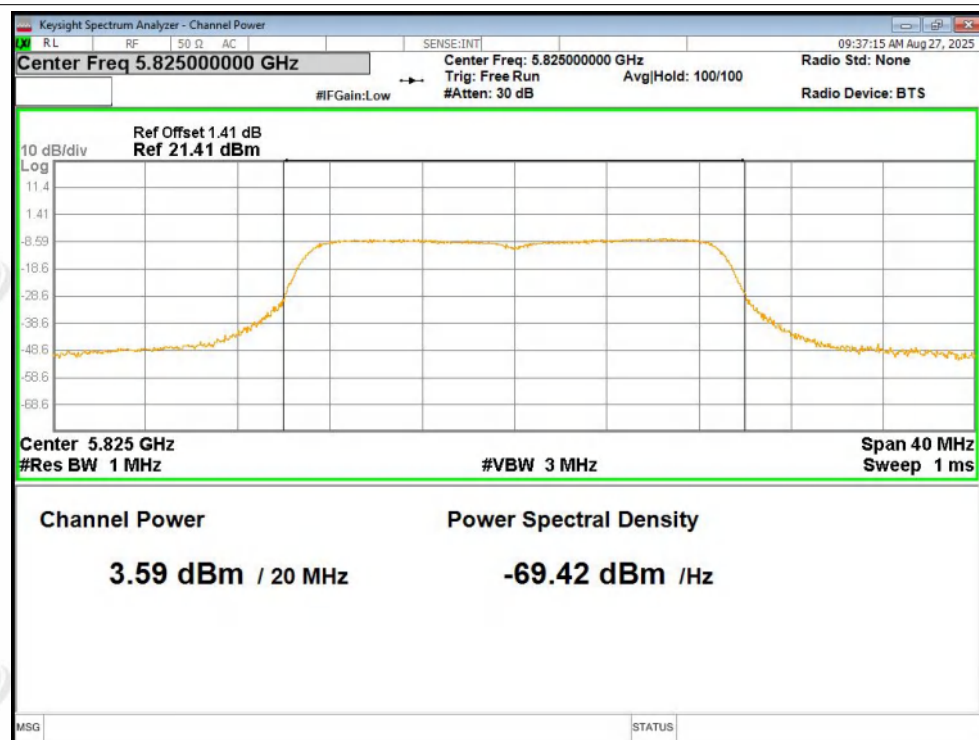


Power NVNT ac20 5785MHz Ant1

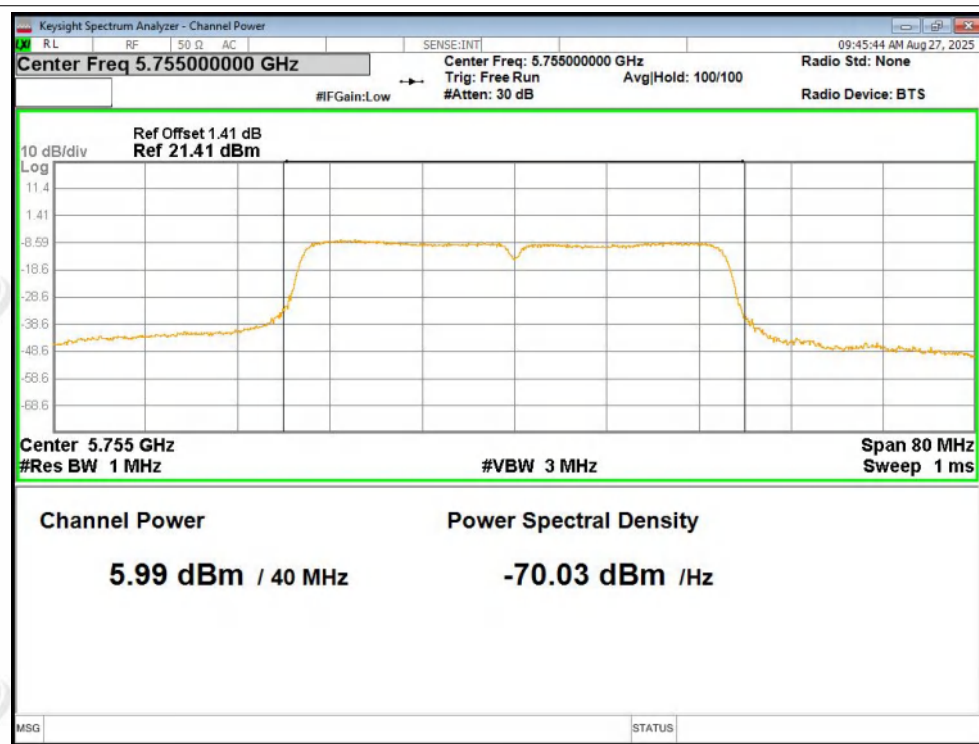




Power NVNT ac20 5825MHz Ant1

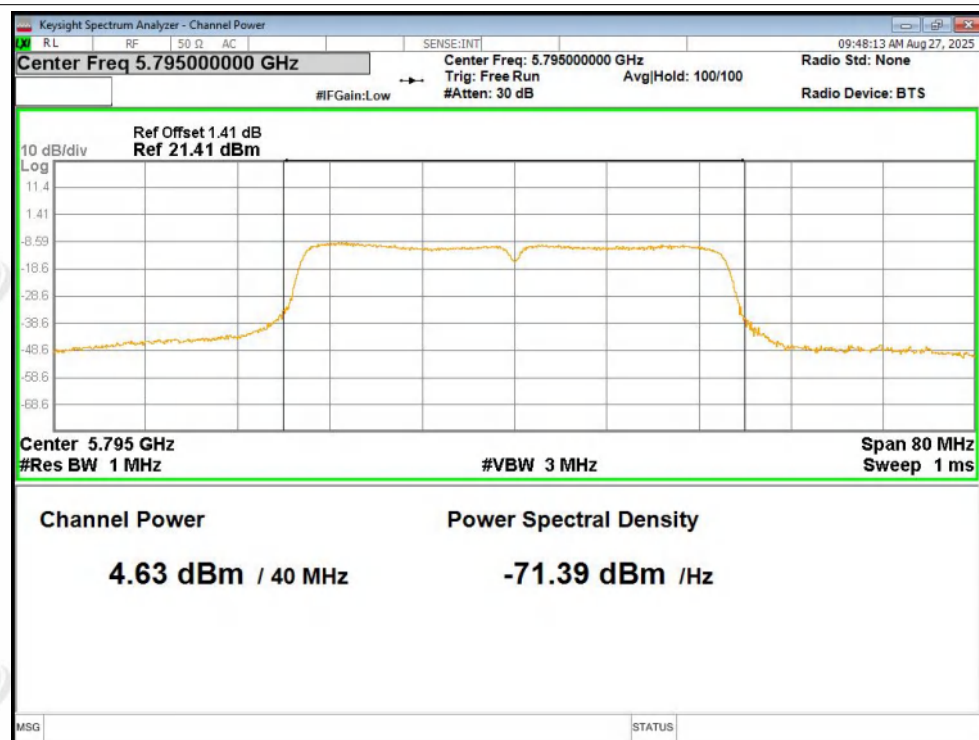


Power NVNT ac40 5755MHz Ant1

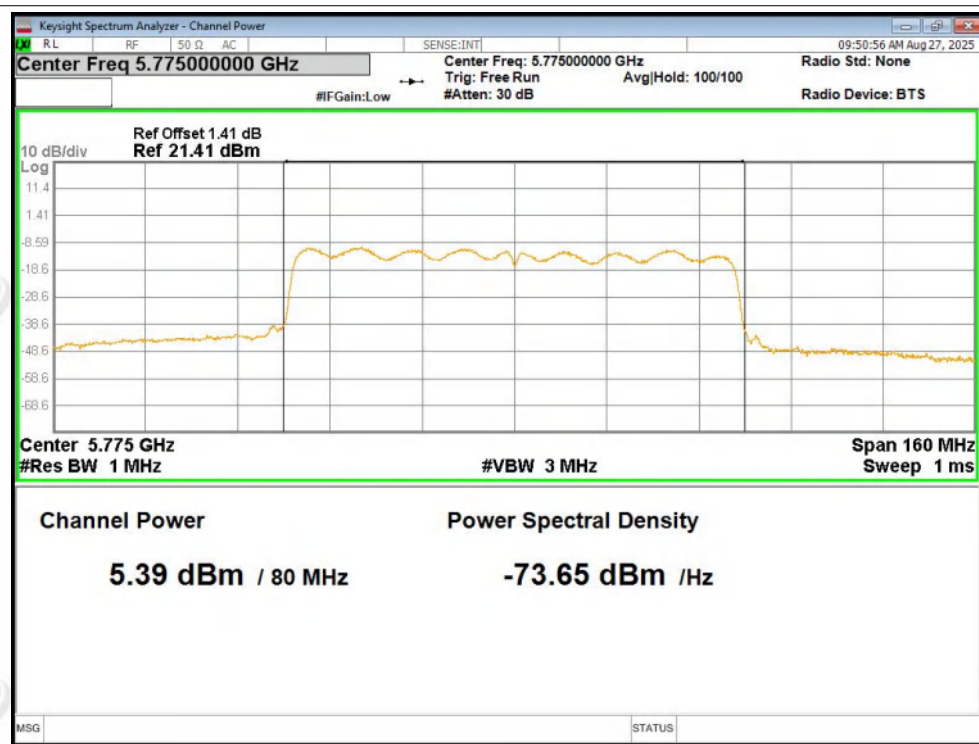




Power NVNT ac40 5795MHz Ant1



Power NVNT ac80 5775MHz Ant1

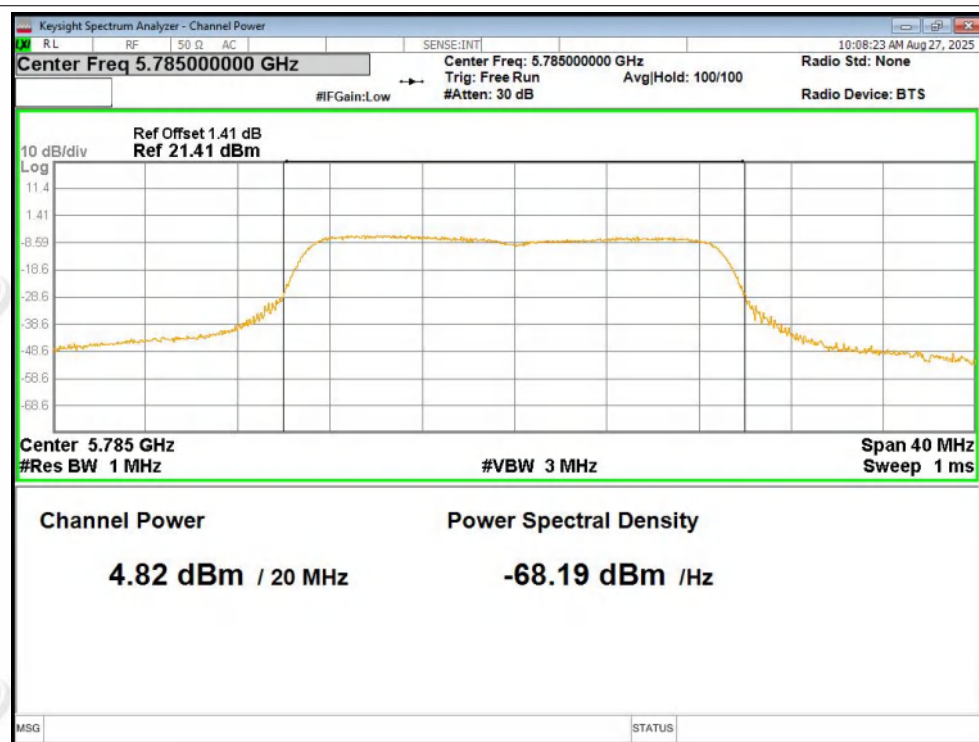




Power NVNT ax20 5745MHz Ant1

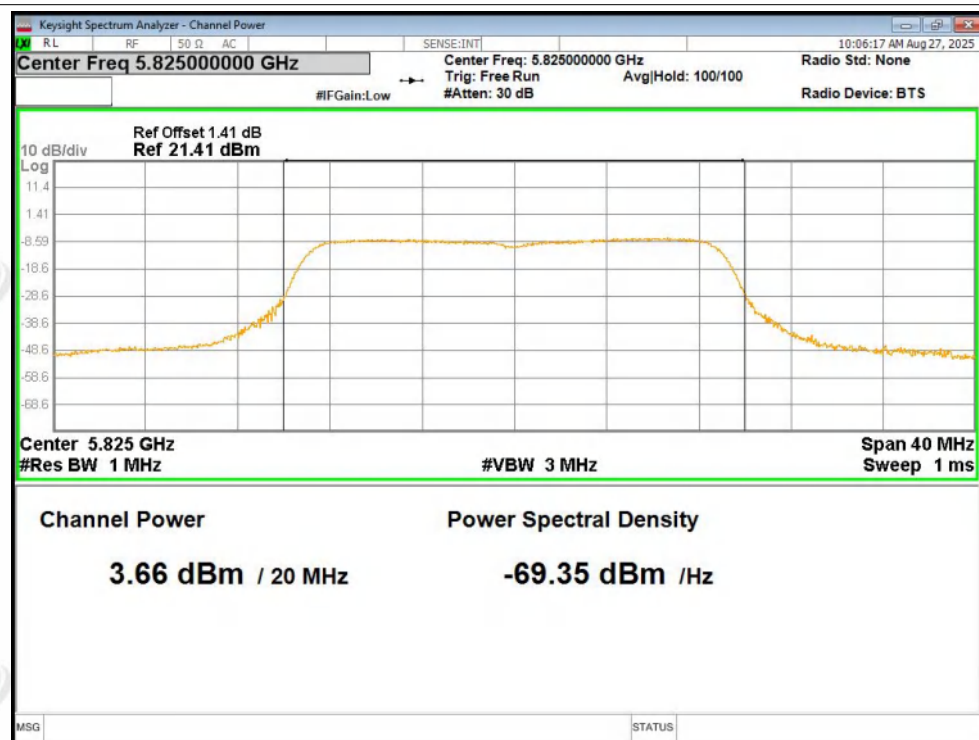


Power NVNT ax20 5785MHz Ant1





Power NVNT ax20 5825MHz Ant1

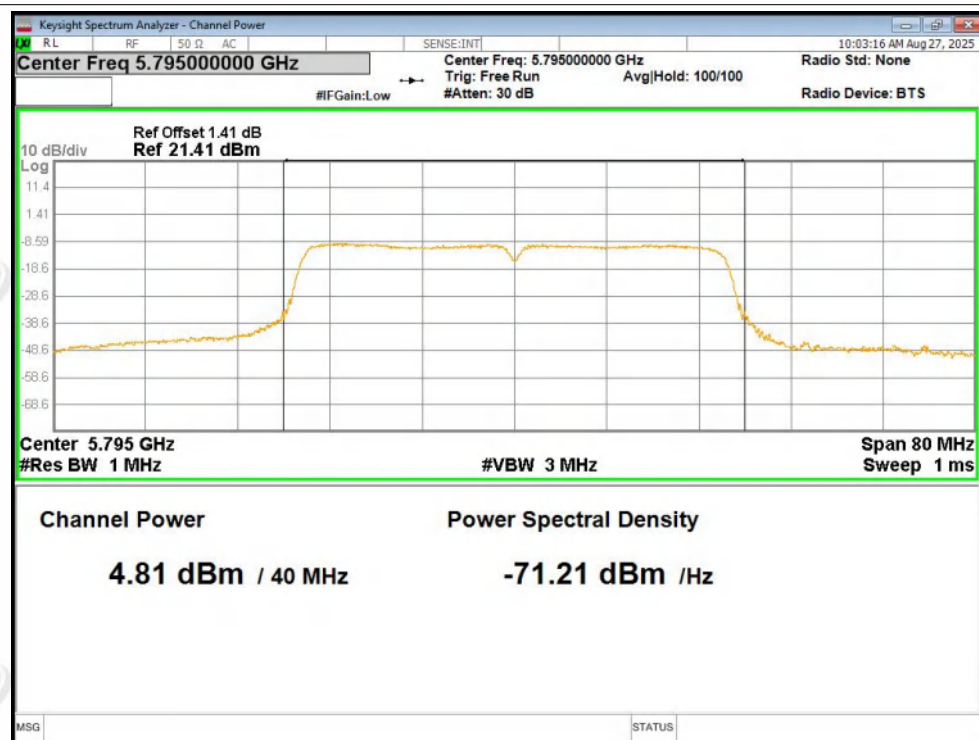


Power NVNT ax40 5755MHz Ant1

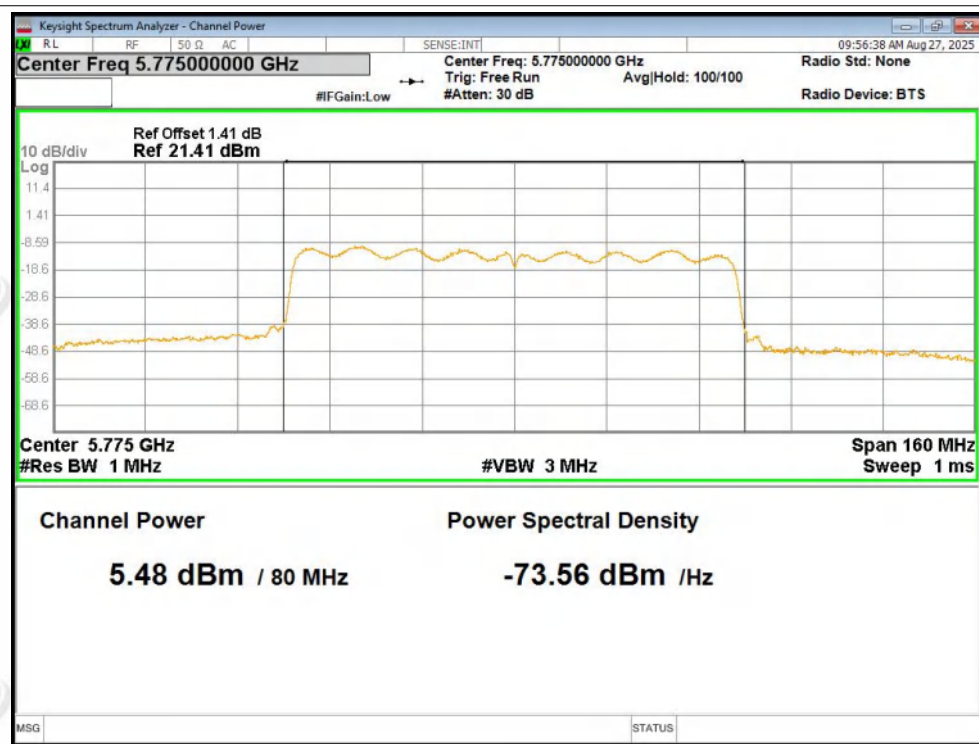




Power NVNT ax40 5795MHz Ant1



Power NVNT ax80 5775MHz Ant1





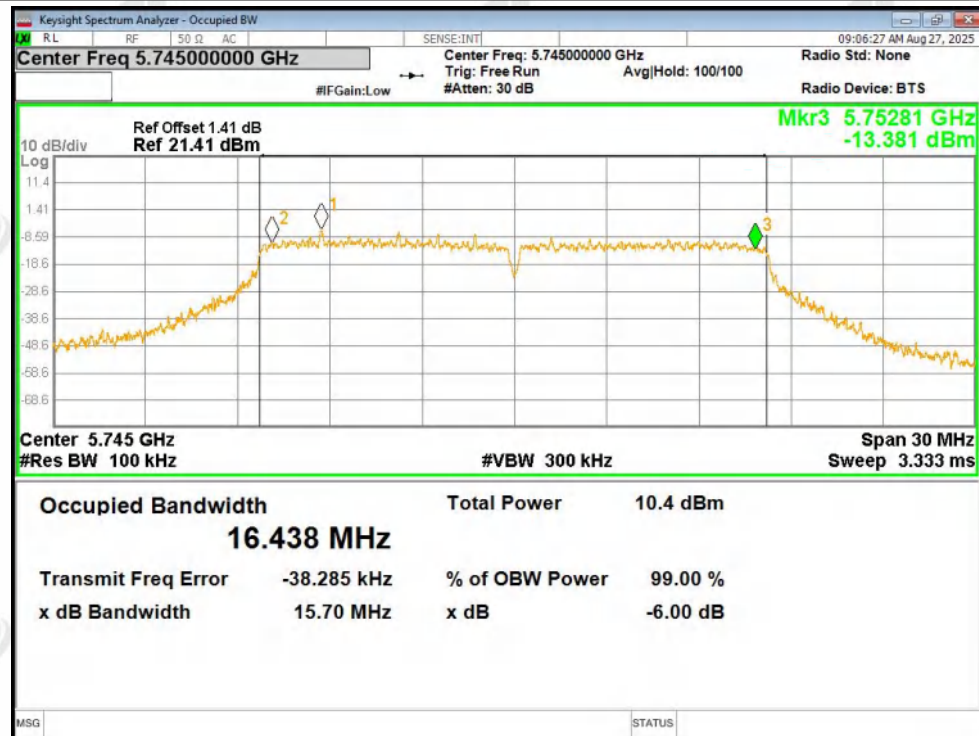
ZHONGHAN
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.696	0.5	Pass
NVNT	a	5785	Ant1	16.322	0.5	Pass
NVNT	a	5825	Ant1	16.324	0.5	Pass
NVNT	n20	5745	Ant1	16.597	0.5	Pass
NVNT	n20	5785	Ant1	17.499	0.5	Pass
NVNT	n20	5825	Ant1	17.273	0.5	Pass
NVNT	n40	5755	Ant1	35.432	0.5	Pass
NVNT	n40	5795	Ant1	35.297	0.5	Pass
NVNT	ac20	5745	Ant1	16.949	0.5	Pass
NVNT	ac20	5785	Ant1	17.54	0.5	Pass
NVNT	ac20	5825	Ant1	17.284	0.5	Pass
NVNT	ac40	5755	Ant1	35.519	0.5	Pass
NVNT	ac40	5795	Ant1	35.731	0.5	Pass
NVNT	ac80	5775	Ant1	75.102	0.5	Pass
NVNT	ax20	5745	Ant1	17.559	0.5	Pass
NVNT	ax20	5785	Ant1	17.177	0.5	Pass
NVNT	ax20	5825	Ant1	17.541	0.5	Pass
NVNT	ax40	5755	Ant1	35.309	0.5	Pass
NVNT	ax40	5795	Ant1	35.428	0.5	Pass
NVNT	ax80	5775	Ant1	73.888	0.5	Pass

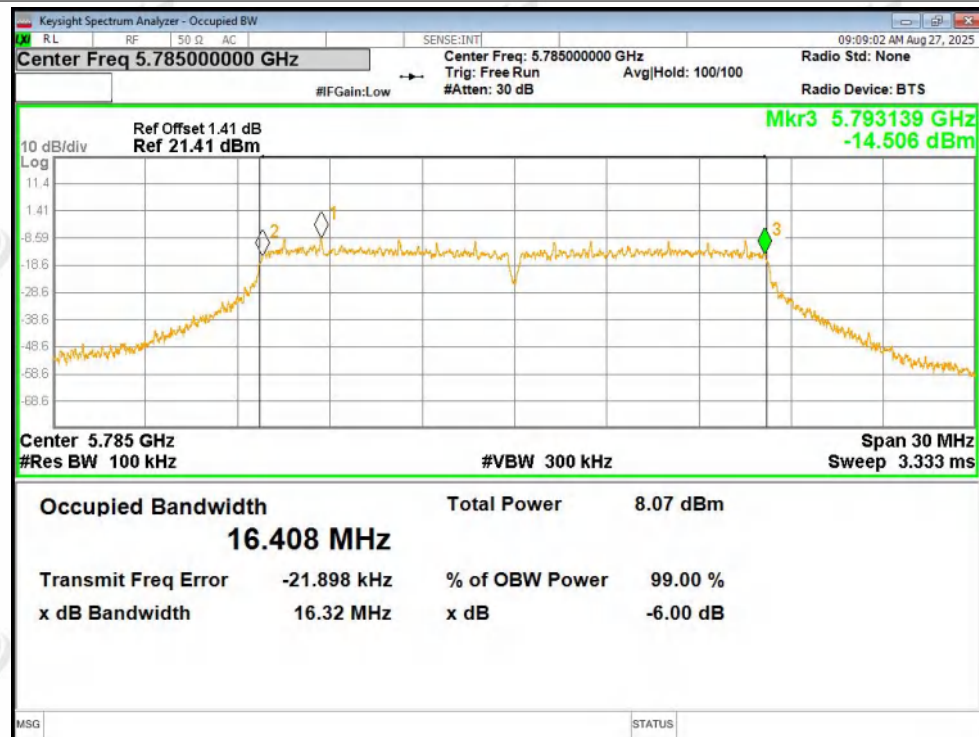


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

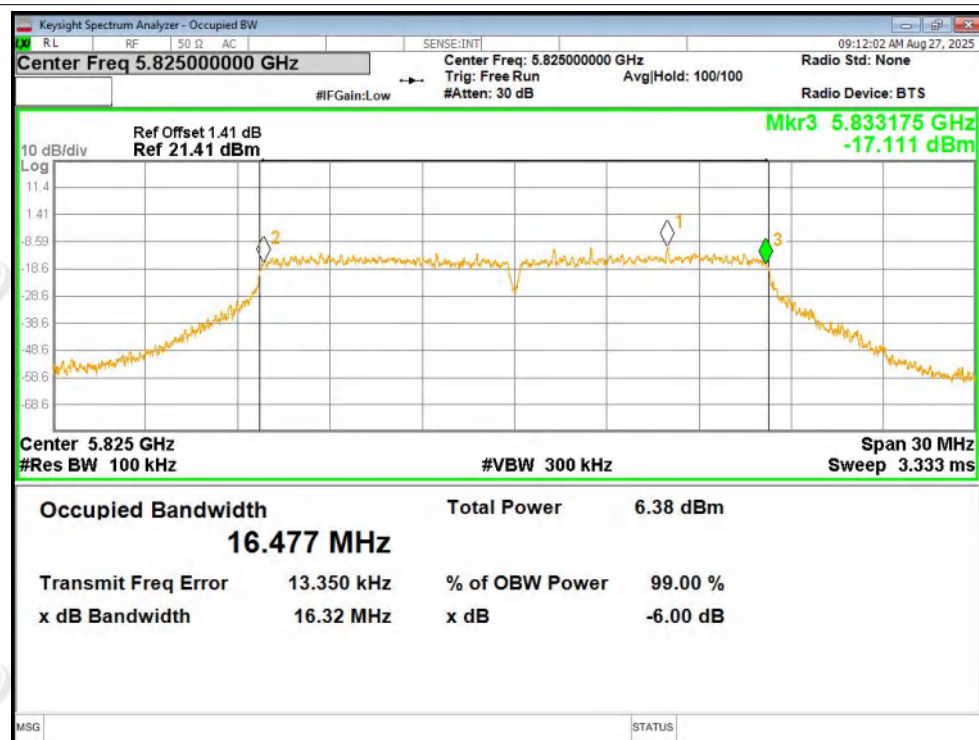


-6dB Bandwidth NVNT a 5785MHz Ant1

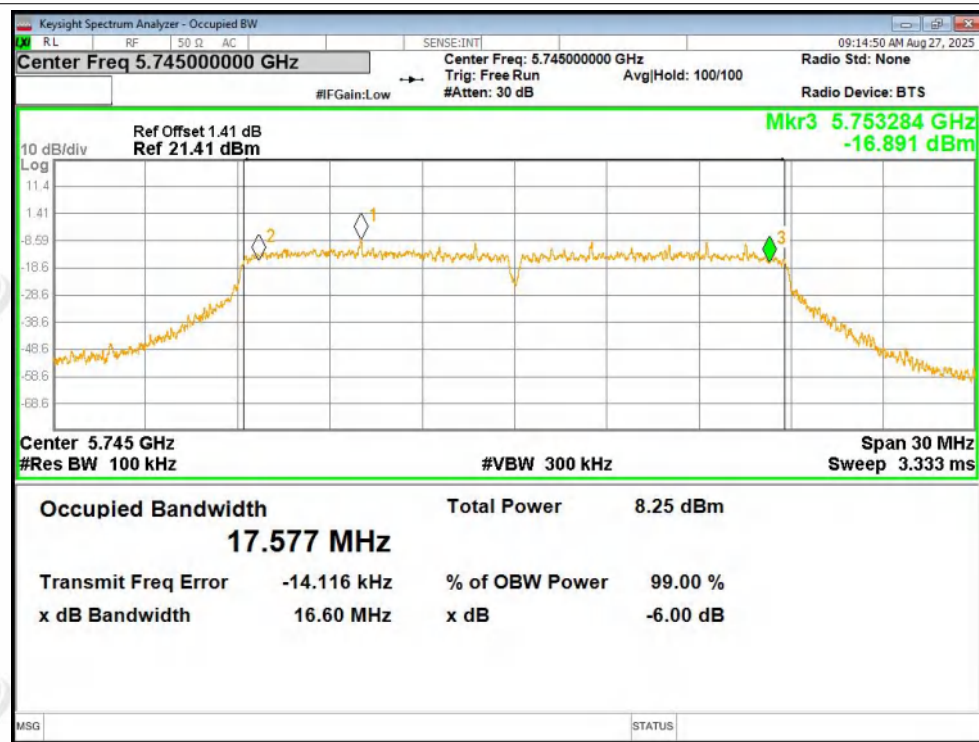




-6dB Bandwidth NVNT a 5825MHz Ant1

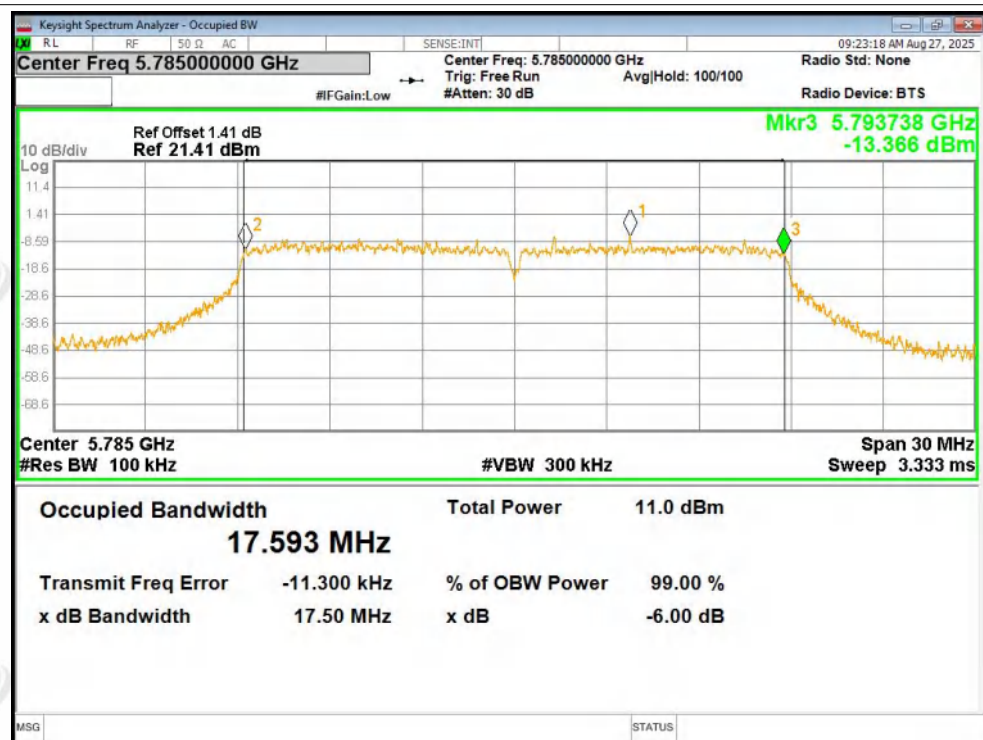


-6dB Bandwidth NVNT n20 5745MHz Ant1

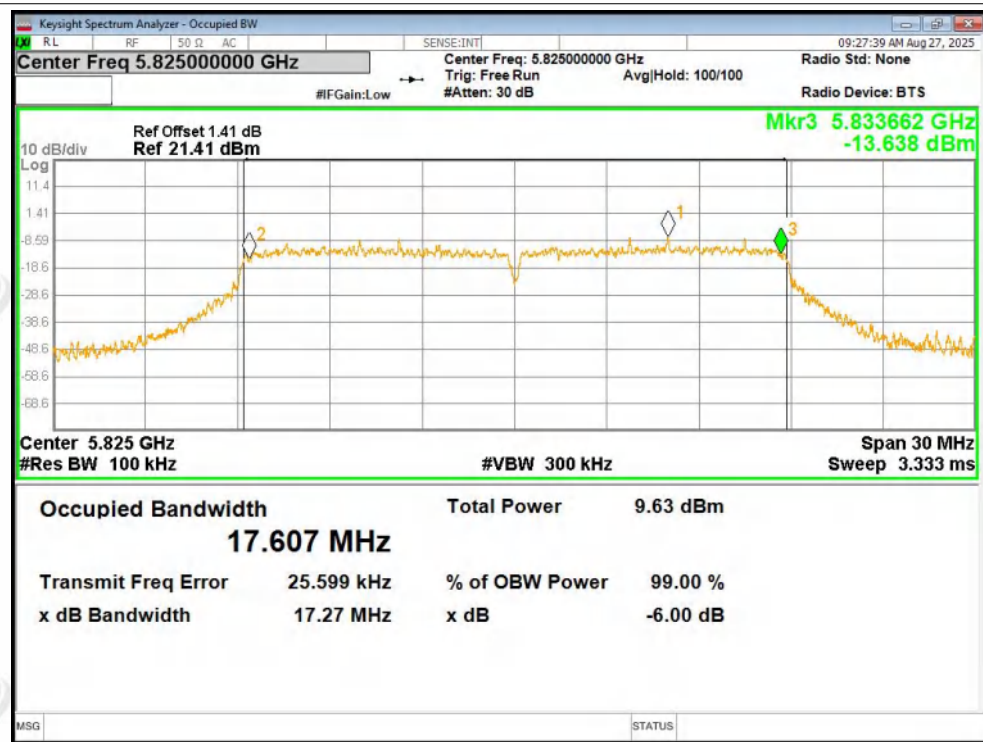




-6dB Bandwidth NVNT n20 5785MHz Ant1

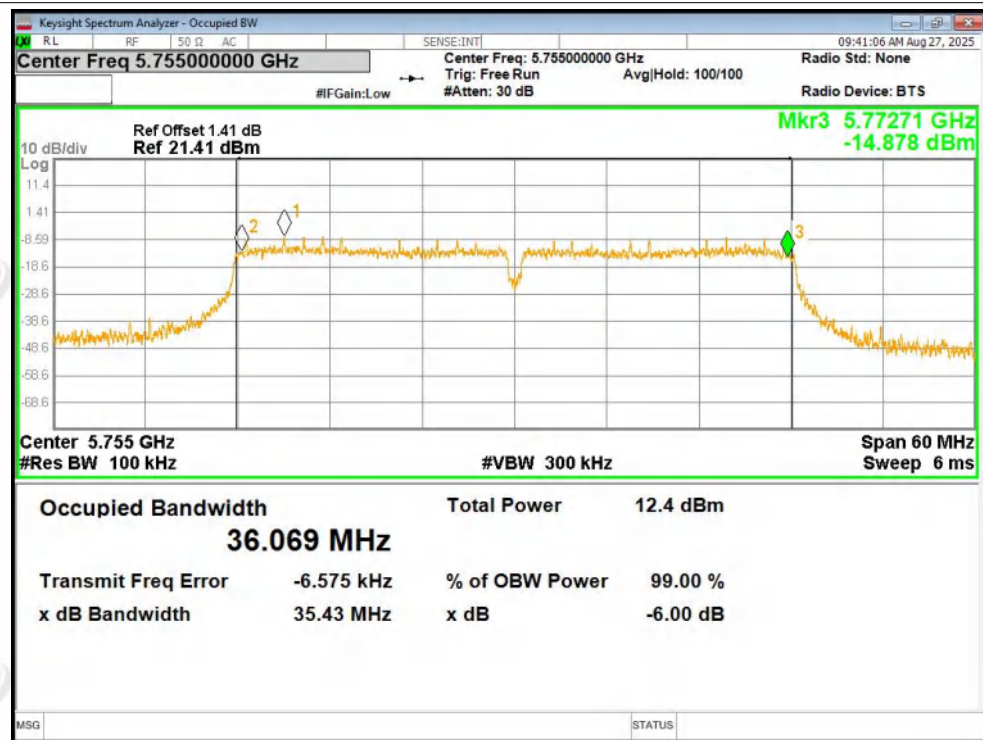


-6dB Bandwidth NVNT n20 5825MHz Ant1





-6dB Bandwidth NVNT n40 5755MHz Ant1

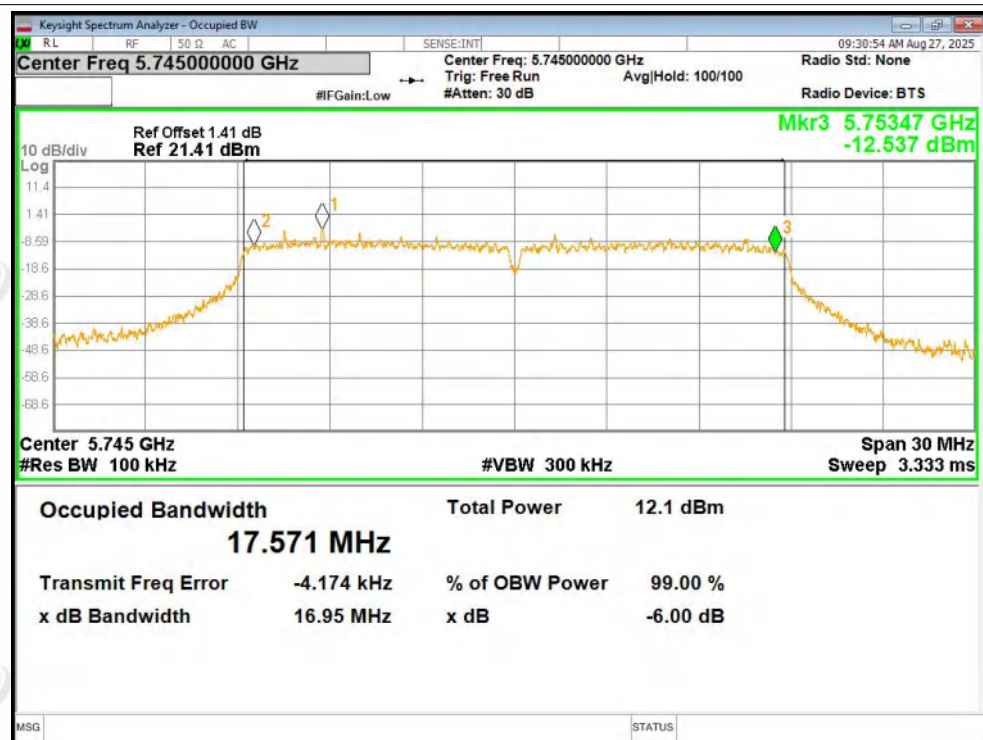


-6dB Bandwidth NVNT n40 5795MHz Ant1

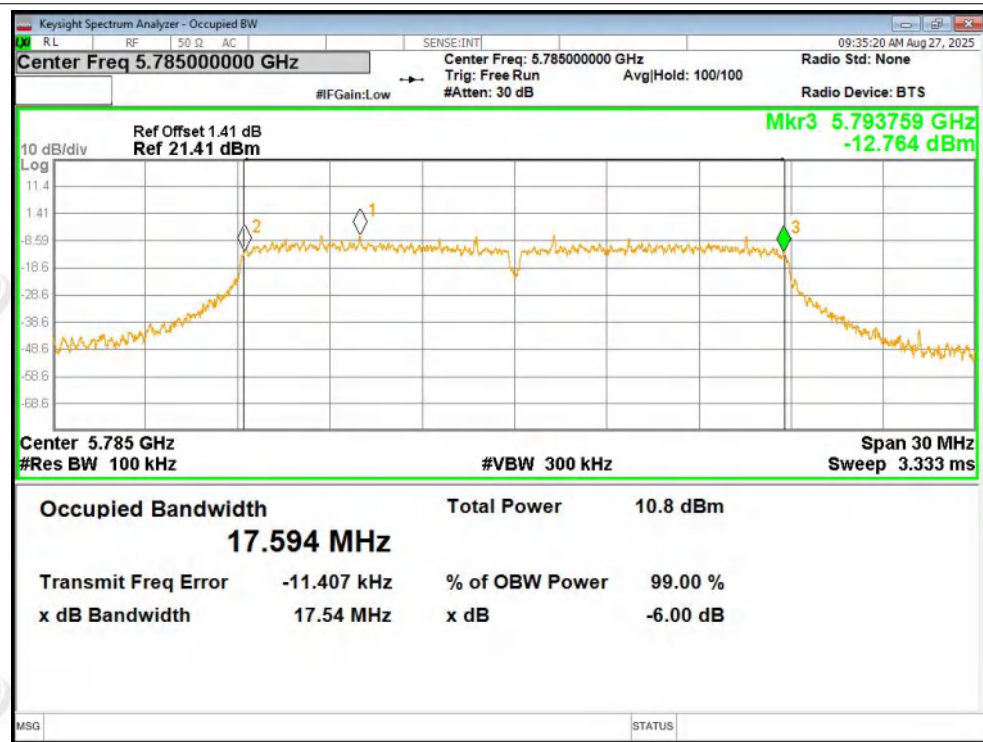




-6dB Bandwidth NVNT ac20 5745MHz Ant1

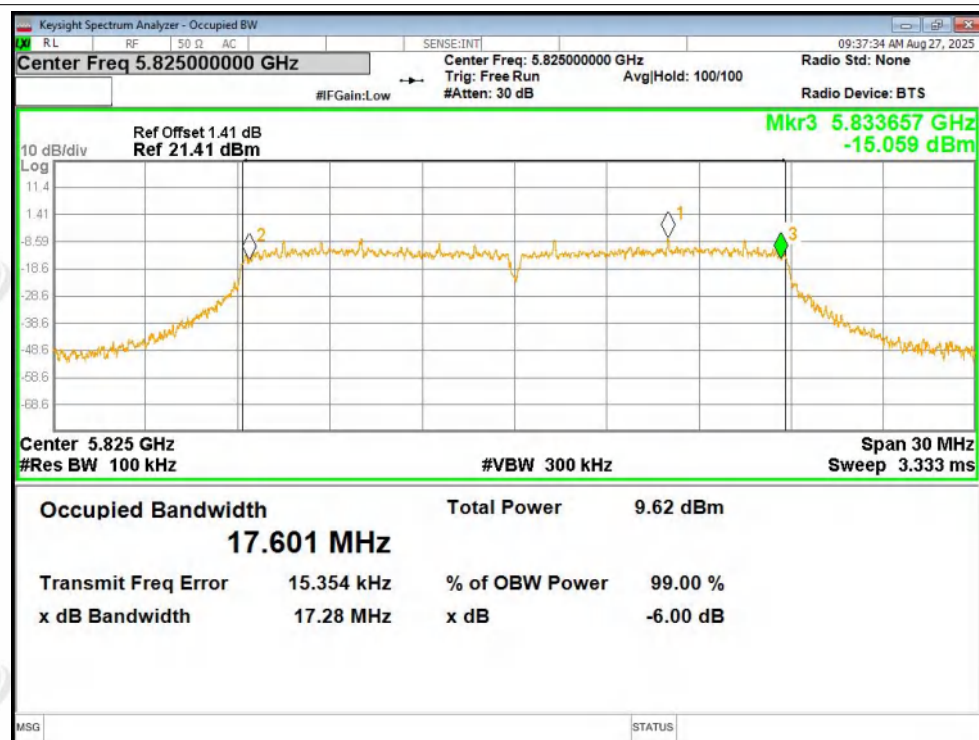


-6dB Bandwidth NVNT ac20 5785MHz Ant1

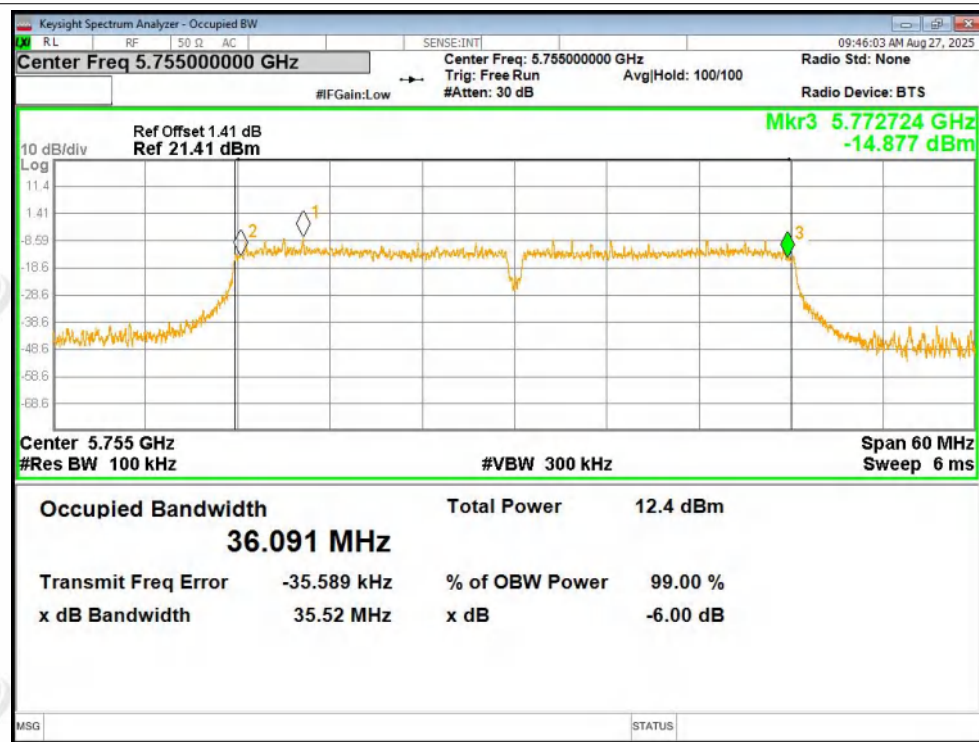




-6dB Bandwidth NVNT ac20 5825MHz Ant1

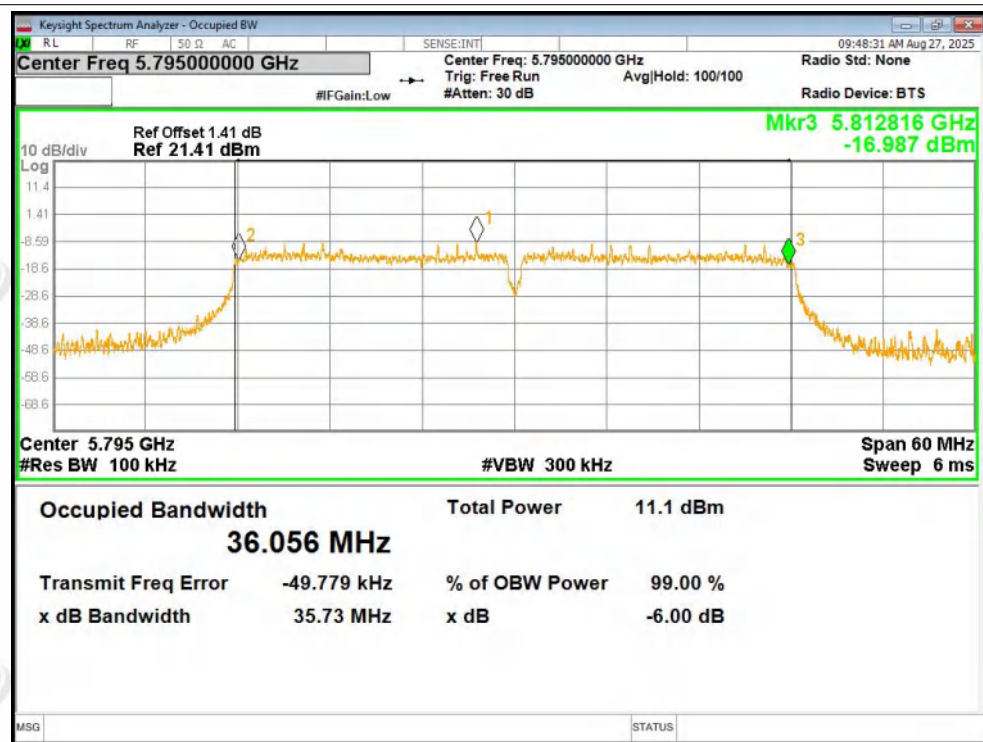


-6dB Bandwidth NVNT ac40 5755MHz Ant1

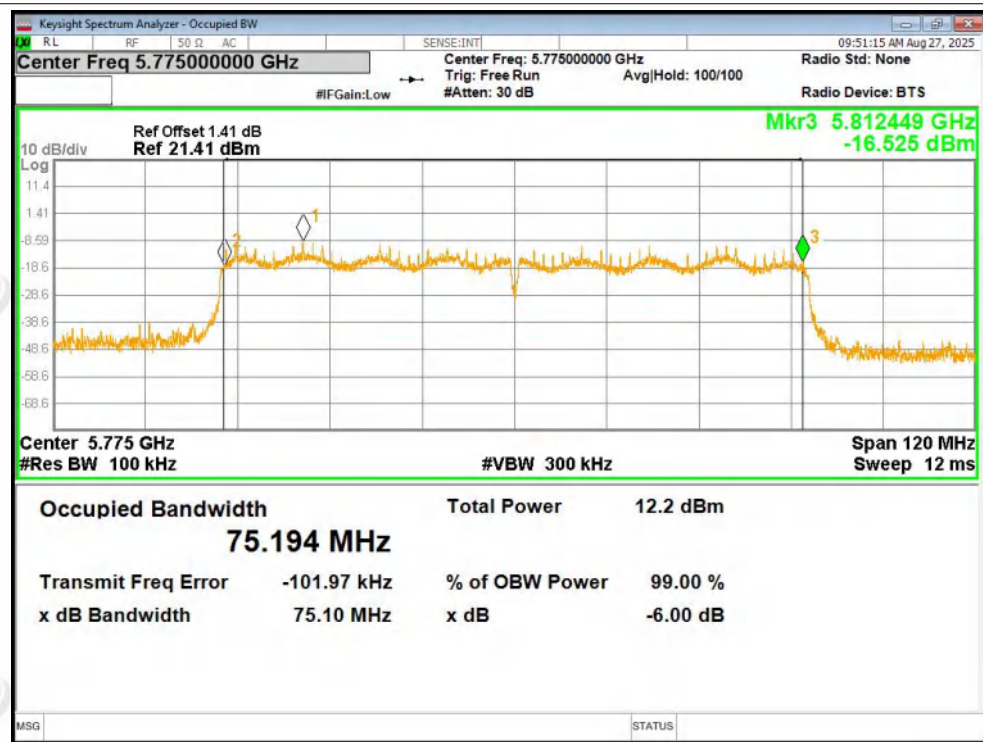




-6dB Bandwidth NVNT ac40 5795MHz Ant1

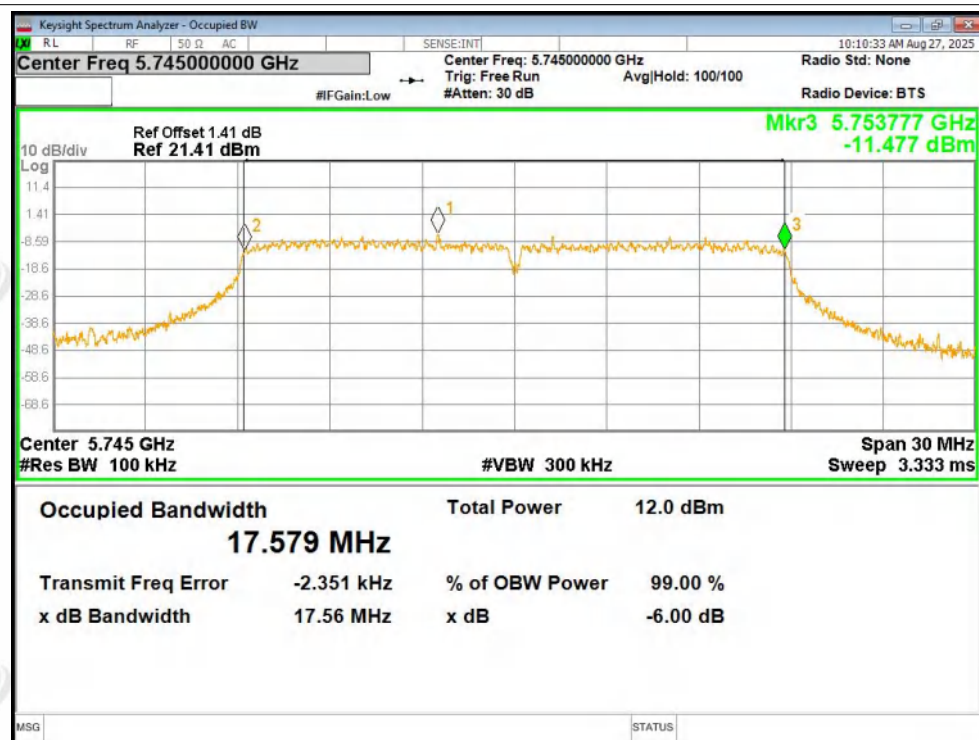


-6dB Bandwidth NVNT ac80 5775MHz Ant1

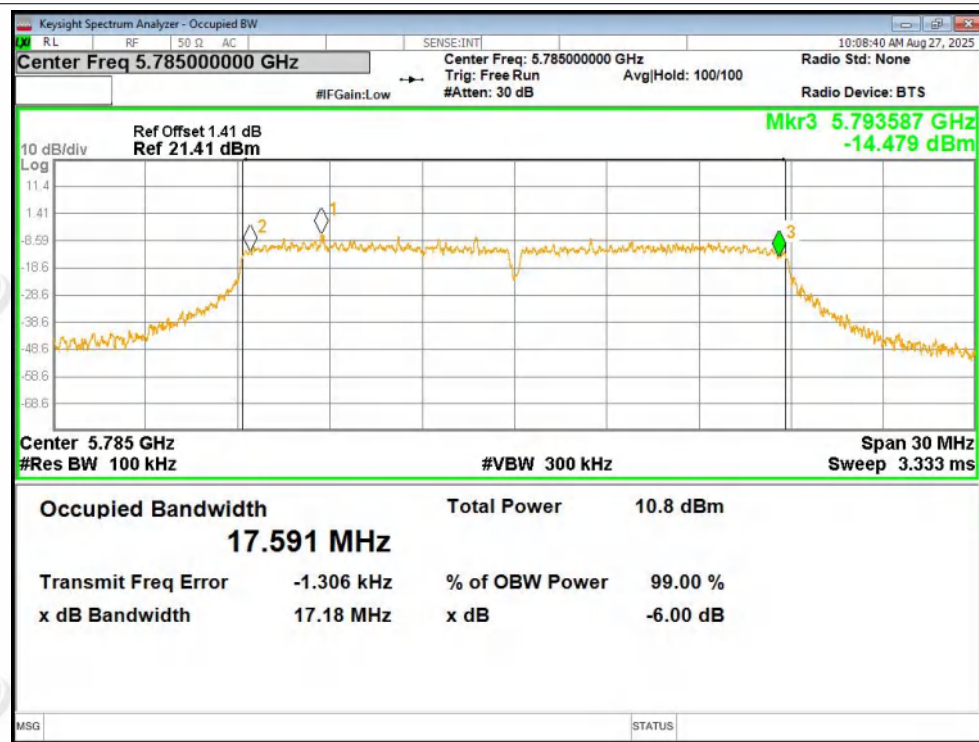




-6dB Bandwidth NVNT ax20 5745MHz Ant1

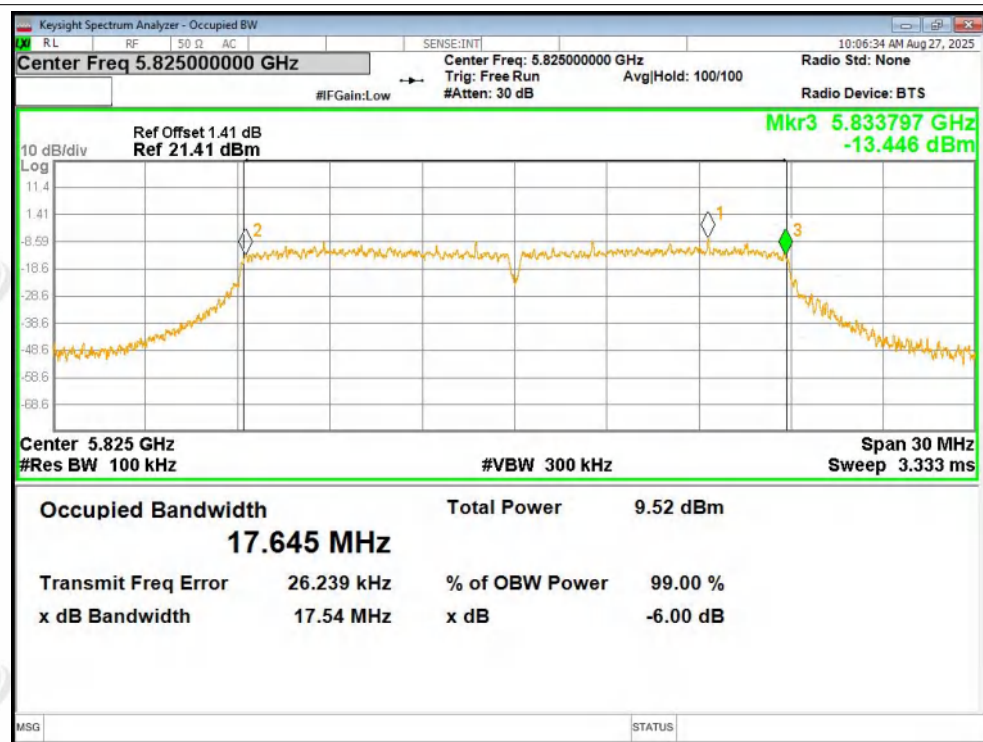


-6dB Bandwidth NVNT ax20 5785MHz Ant1





-6dB Bandwidth NVNT ax20 5825MHz Ant1

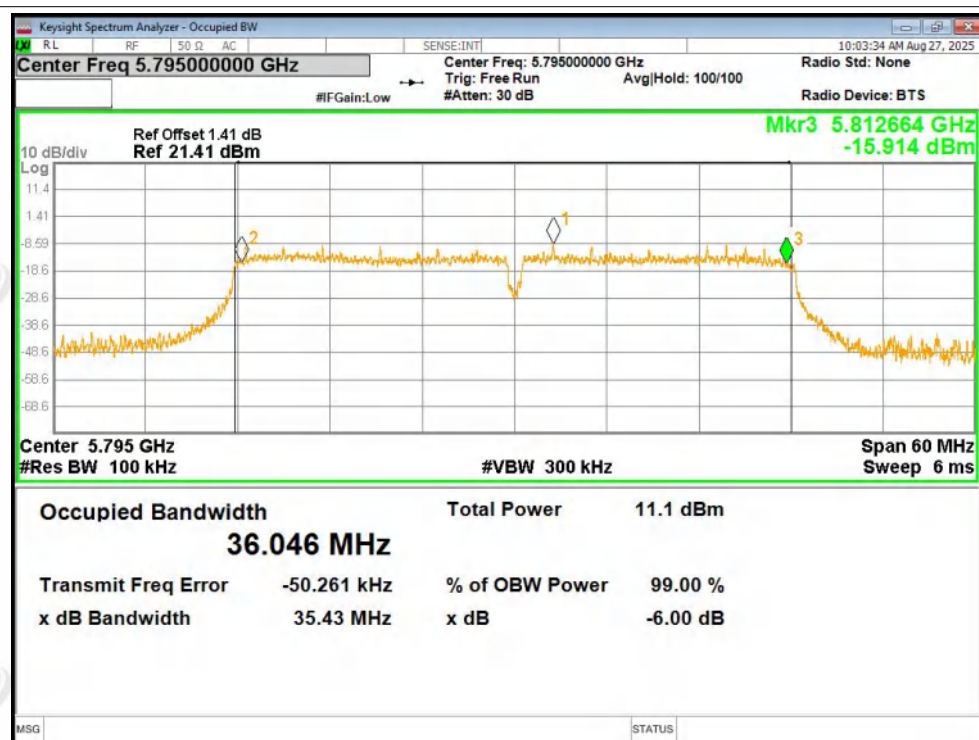


-6dB Bandwidth NVNT ax40 5755MHz Ant1

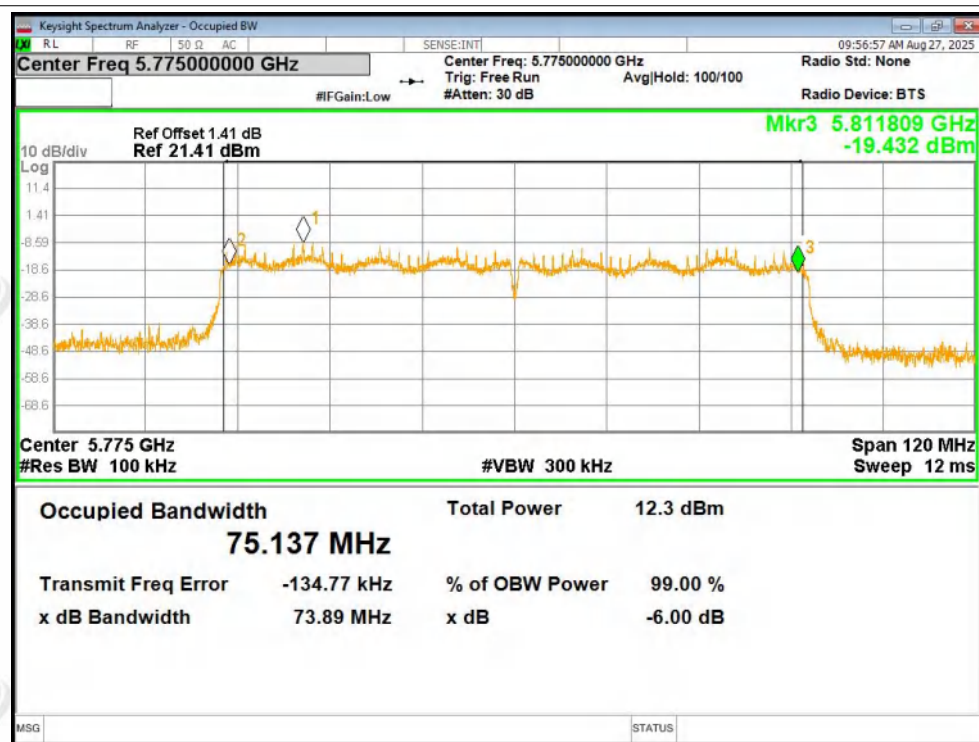




-6dB Bandwidth NVNT ax40 5795MHz Ant1



-6dB Bandwidth NVNT ax80 5775MHz Ant1



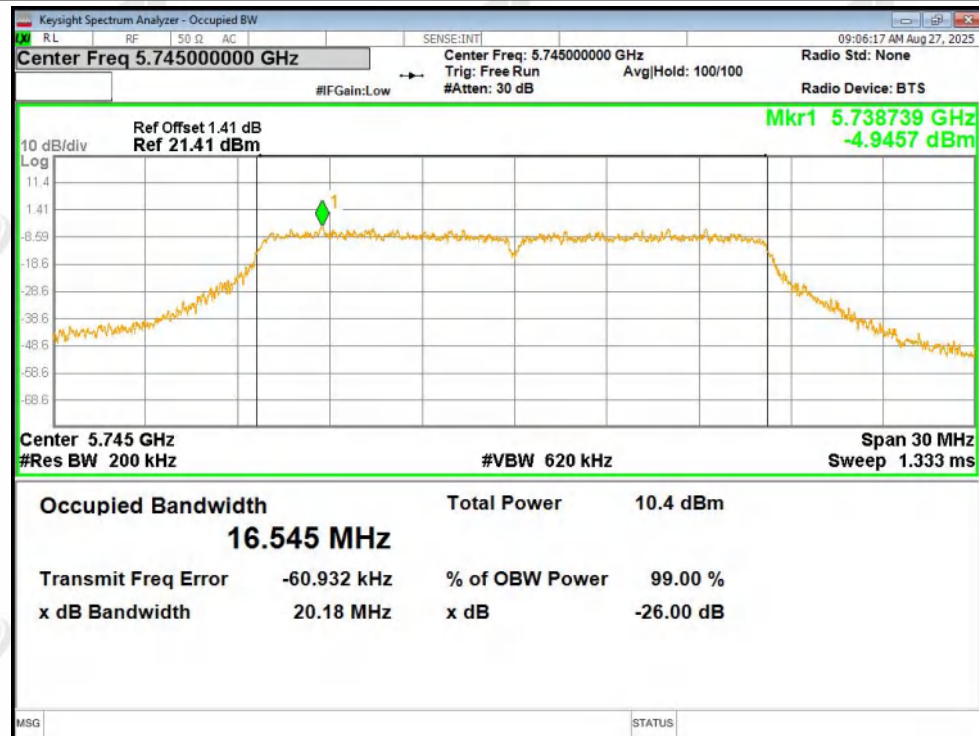
**ZHONGHAN****Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.545
NVNT	a	5785	Ant1	16.528
NVNT	a	5825	Ant1	16.596
NVNT	n20	5745	Ant1	17.649
NVNT	n20	5785	Ant1	17.677
NVNT	n20	5825	Ant1	17.691
NVNT	n40	5755	Ant1	36.191
NVNT	n40	5795	Ant1	36.151
NVNT	ac20	5745	Ant1	17.633
NVNT	ac20	5785	Ant1	17.662
NVNT	ac20	5825	Ant1	17.686
NVNT	ac40	5755	Ant1	36.194
NVNT	ac40	5795	Ant1	36.165
NVNT	ac80	5775	Ant1	75.27
NVNT	ax20	5745	Ant1	17.606
NVNT	ax20	5785	Ant1	17.642
NVNT	ax20	5825	Ant1	17.7
NVNT	ax40	5755	Ant1	36.186
NVNT	ax40	5795	Ant1	36.164
NVNT	ax80	5775	Ant1	75.299

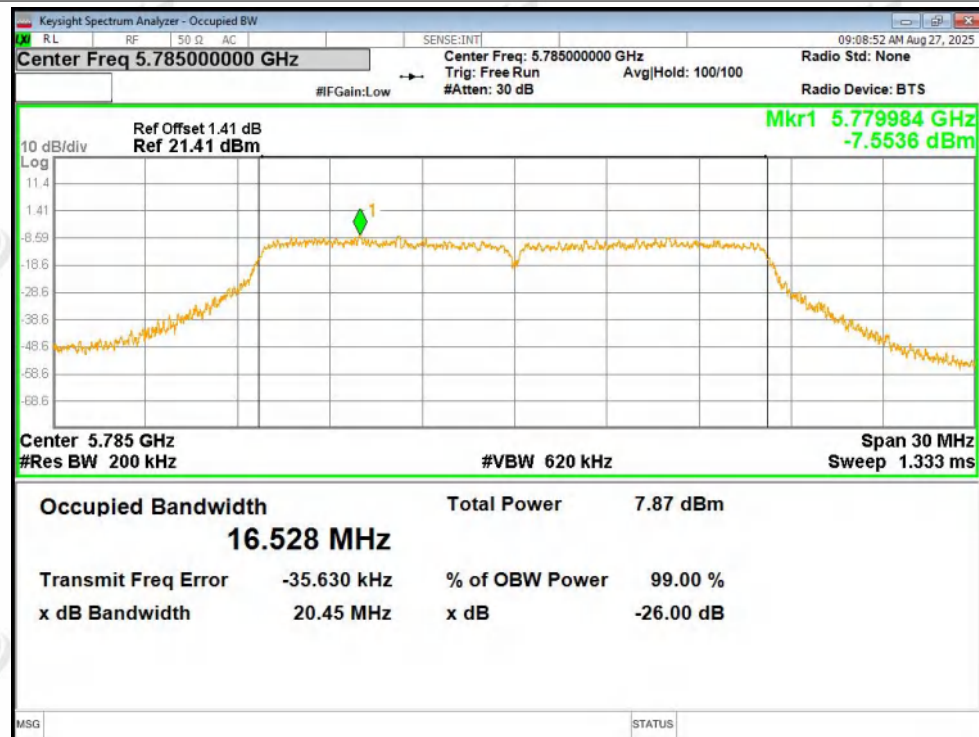


Test Graphs

OBW NVNT a 5745MHz Ant1

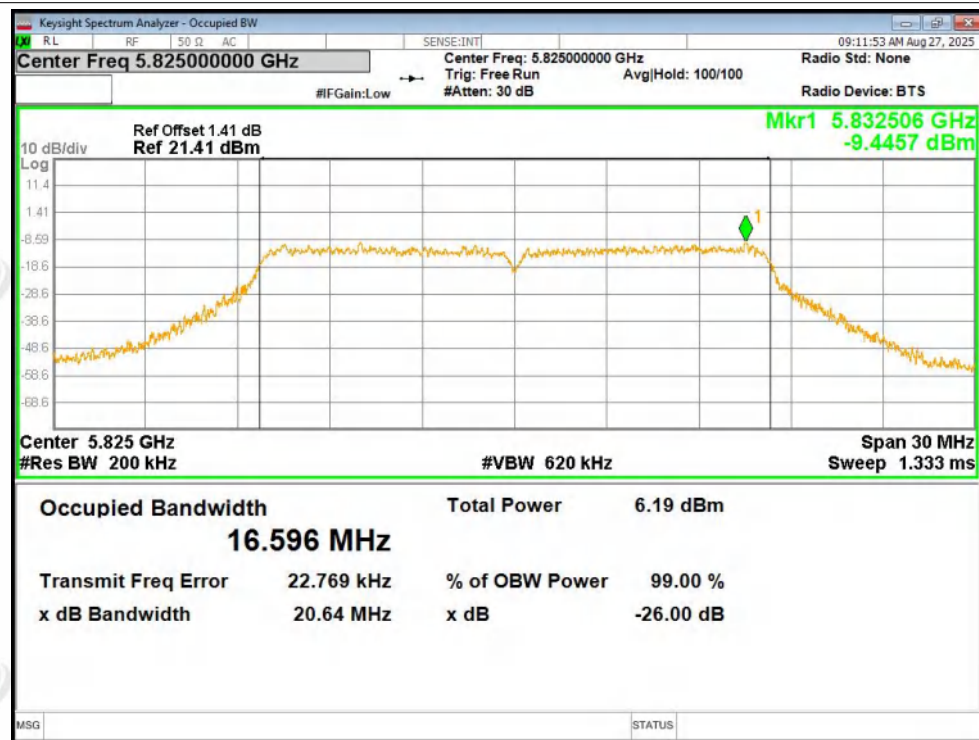


OBW NVNT a 5785MHz Ant1

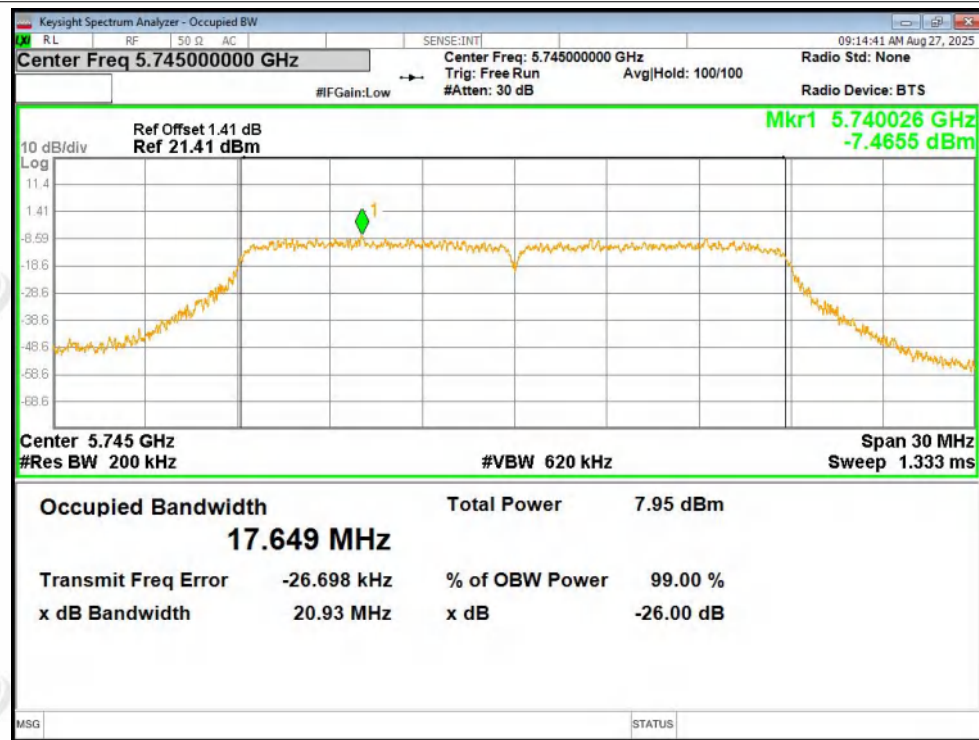




OBW NVNT a 5825MHz Ant1

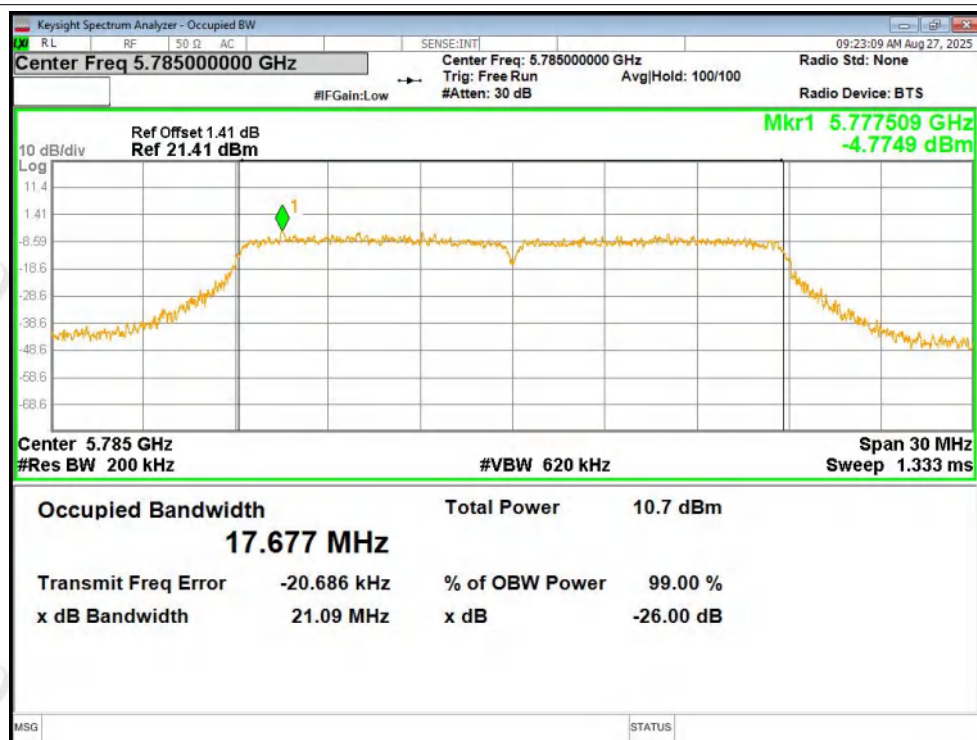


OBW NVNT n20 5745MHz Ant1

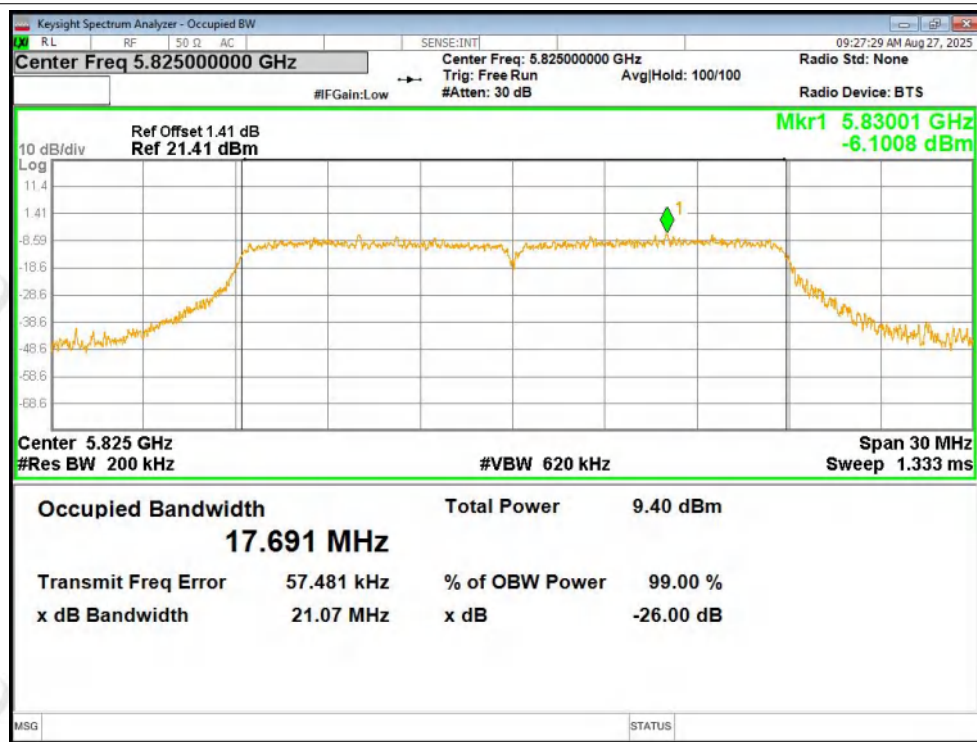




OBW NVNT n20 5785MHz Ant1

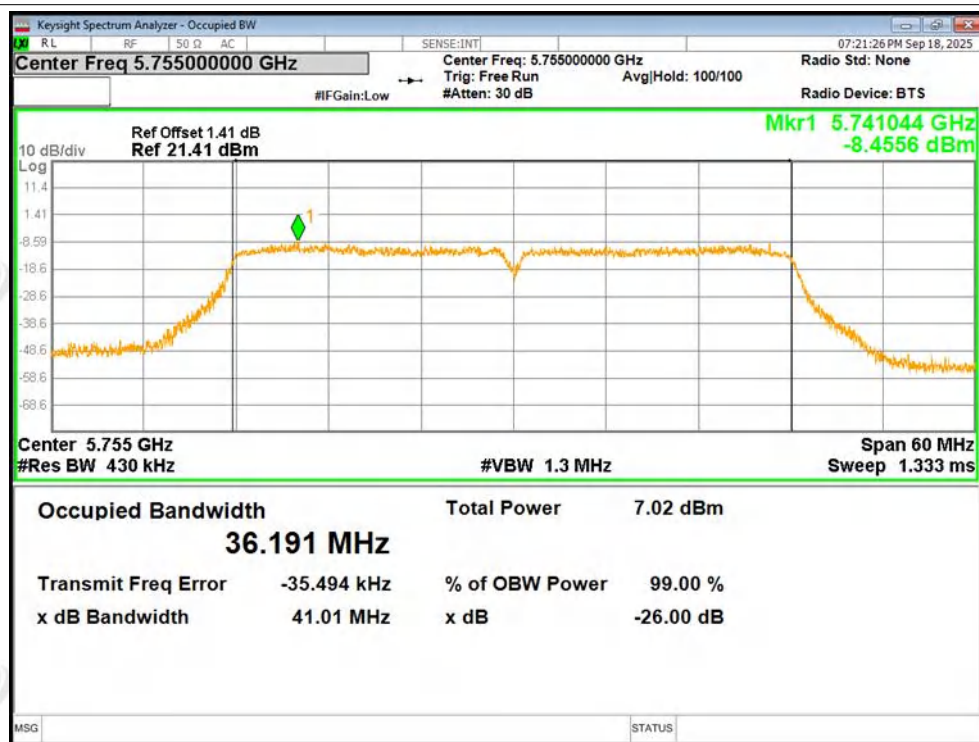


OBW NVNT n20 5825MHz Ant1

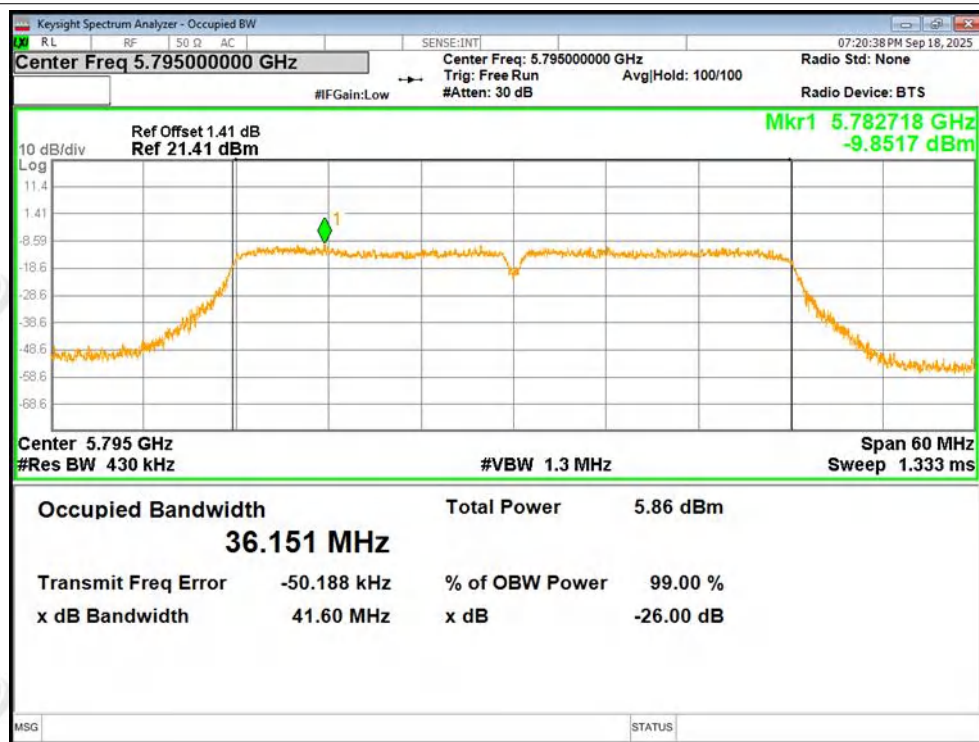




OBW NVNT n40 5755MHz Ant1

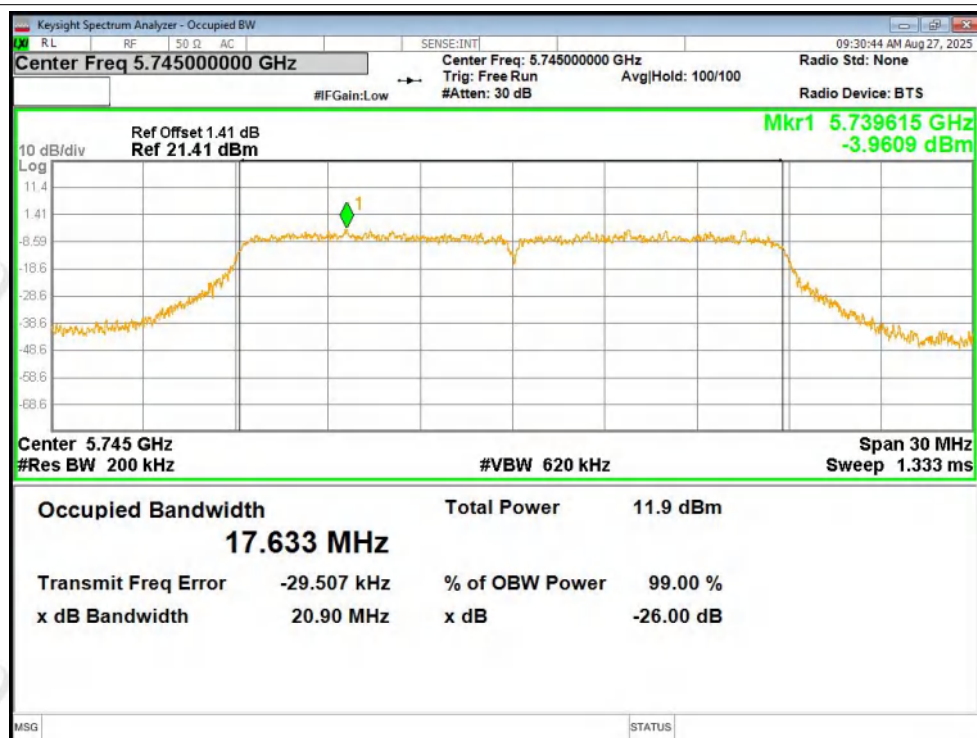


OBW NVNT n40 5795MHz Ant1

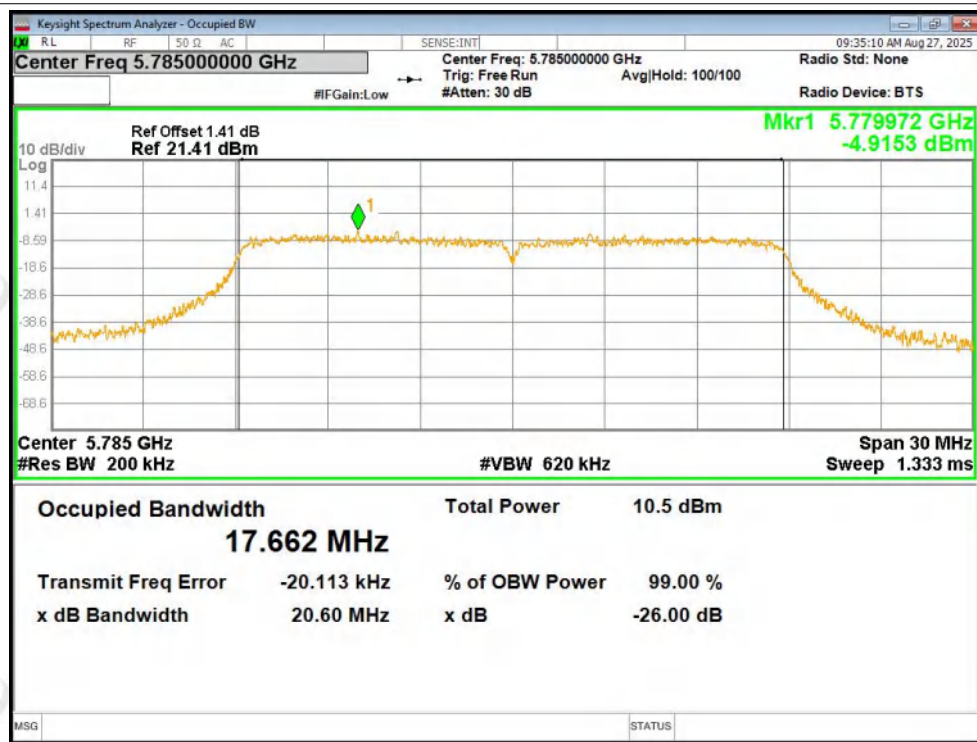




OBW NVNT ac20 5745MHz Ant1

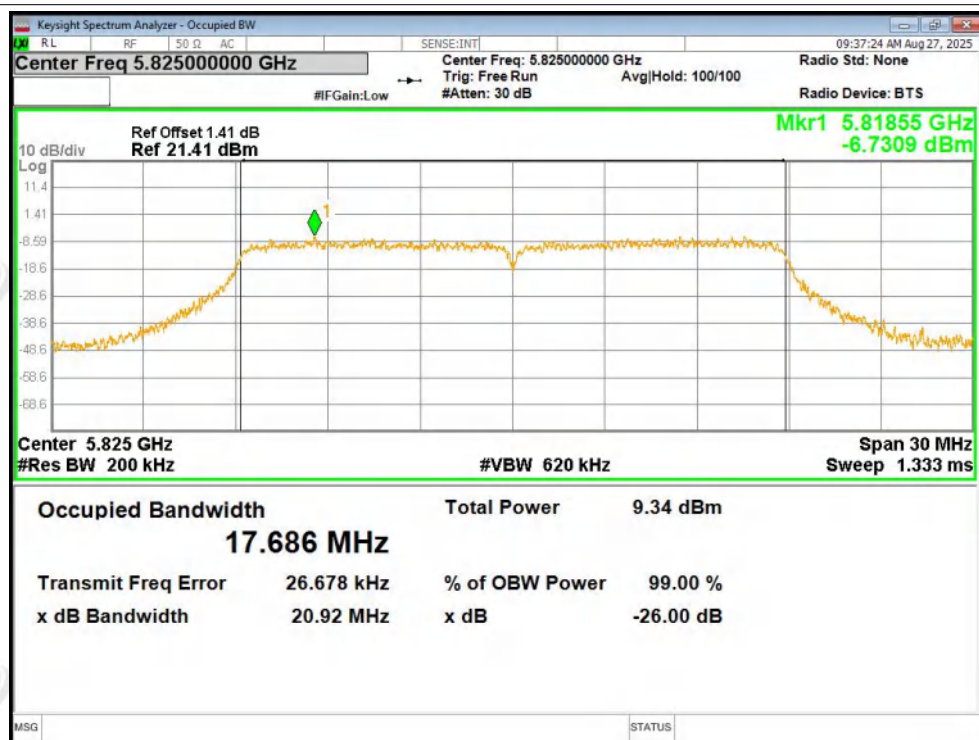


OBW NVNT ac20 5785MHz Ant1

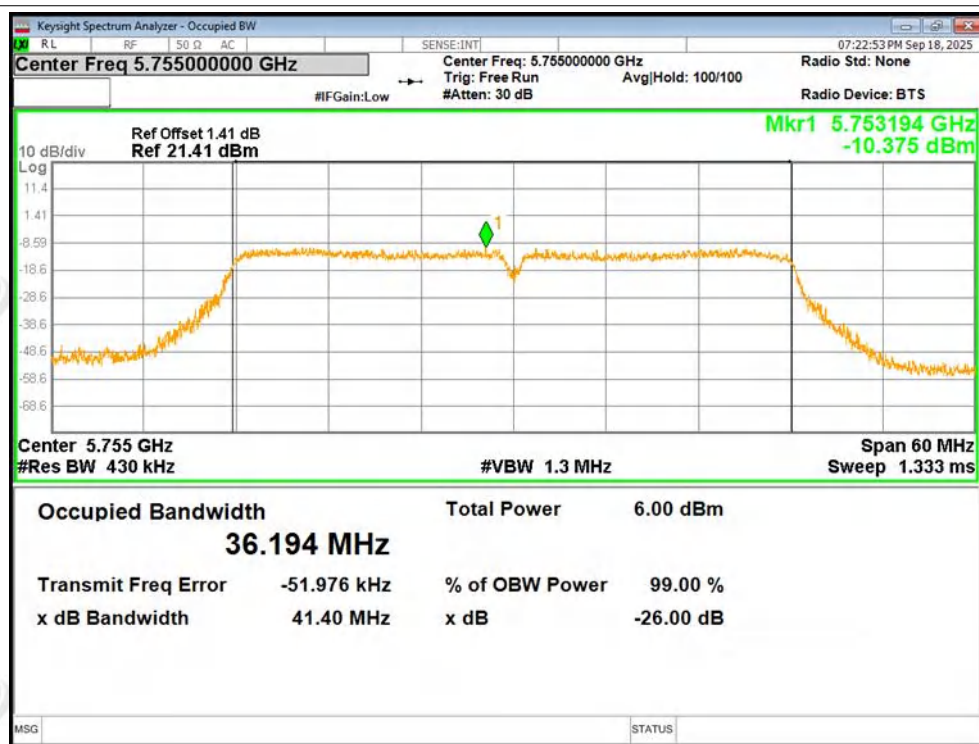




OBW NVNT ac20 5825MHz Ant1

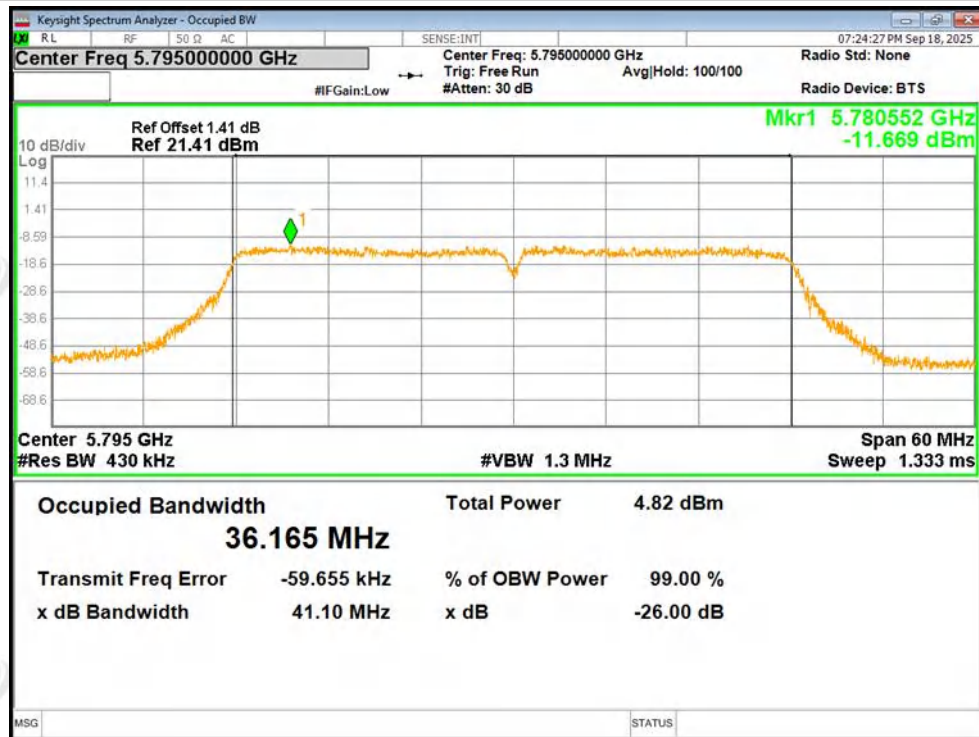


OBW NVNT ac40 5755MHz Ant1

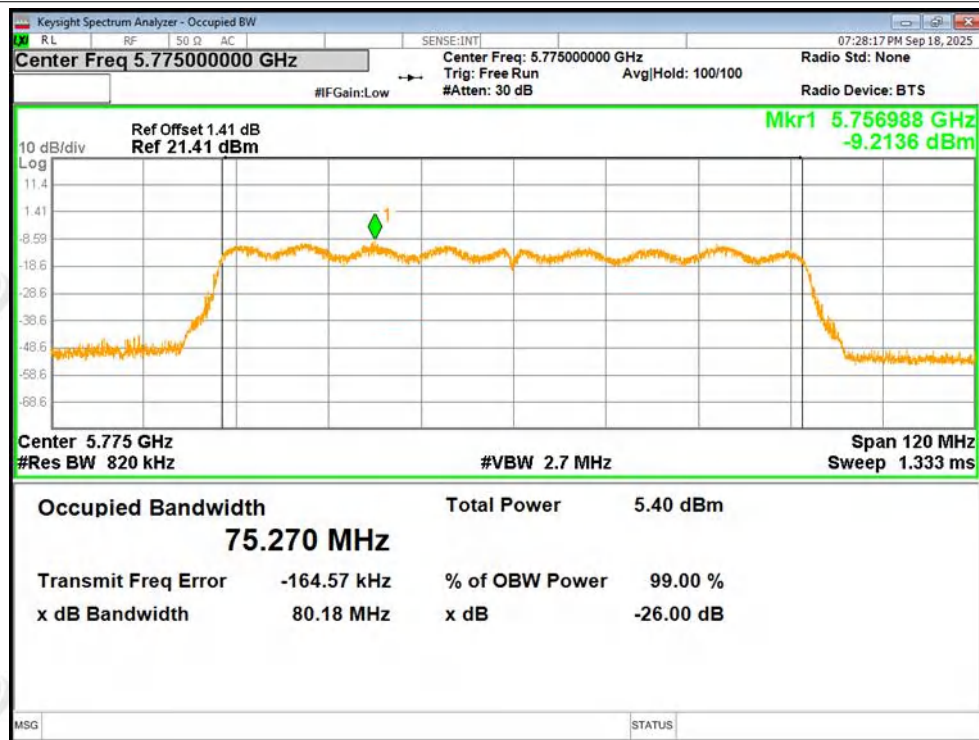




OBW NVNT ac40 5795MHz Ant1

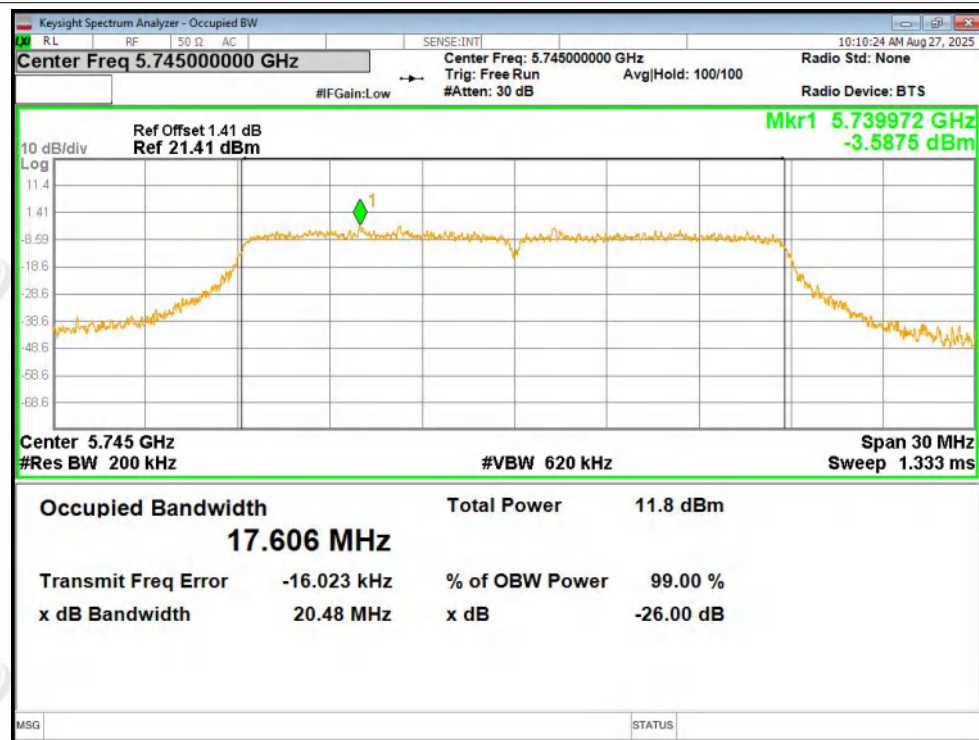


OBW NVNT ac80 5775MHz Ant1

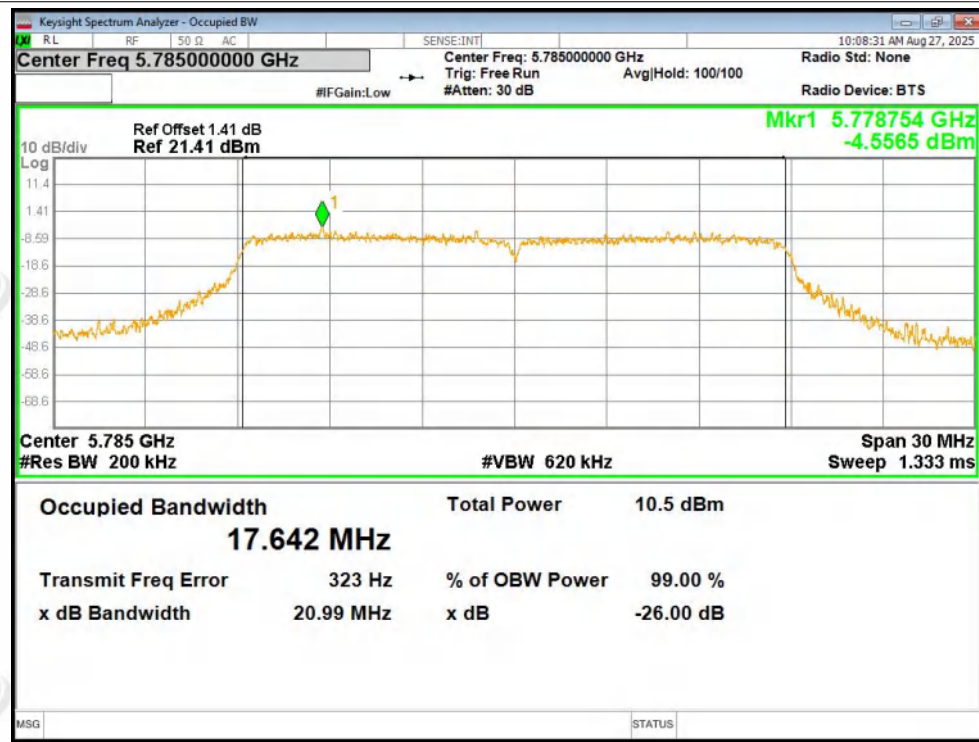




OBW NVNT ax20 5745MHz Ant1

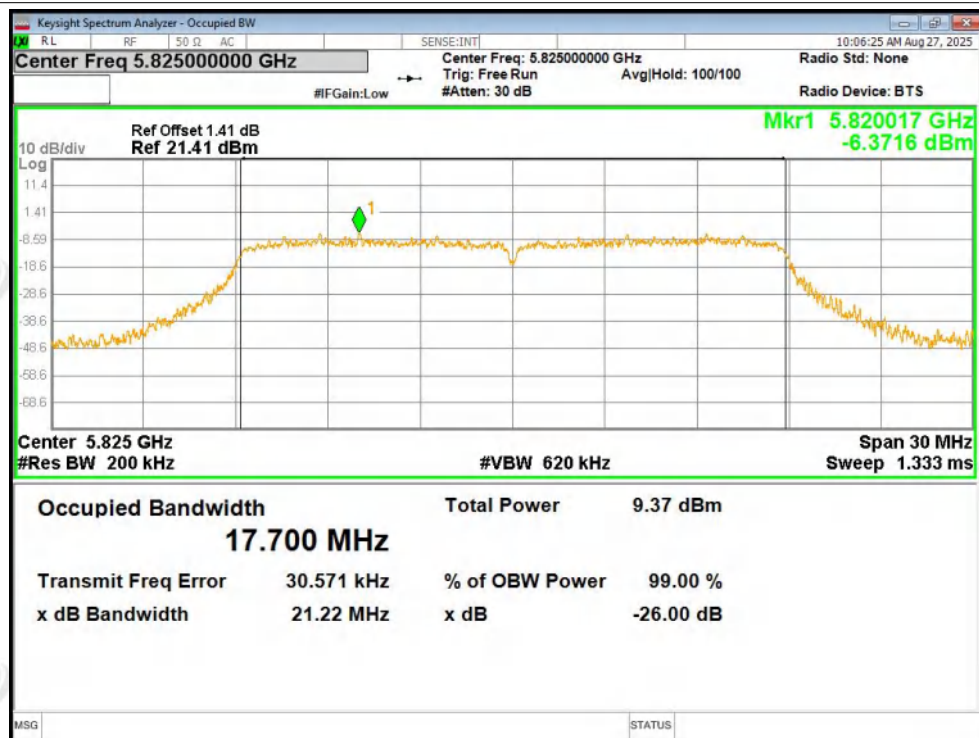


OBW NVNT ax20 5785MHz Ant1

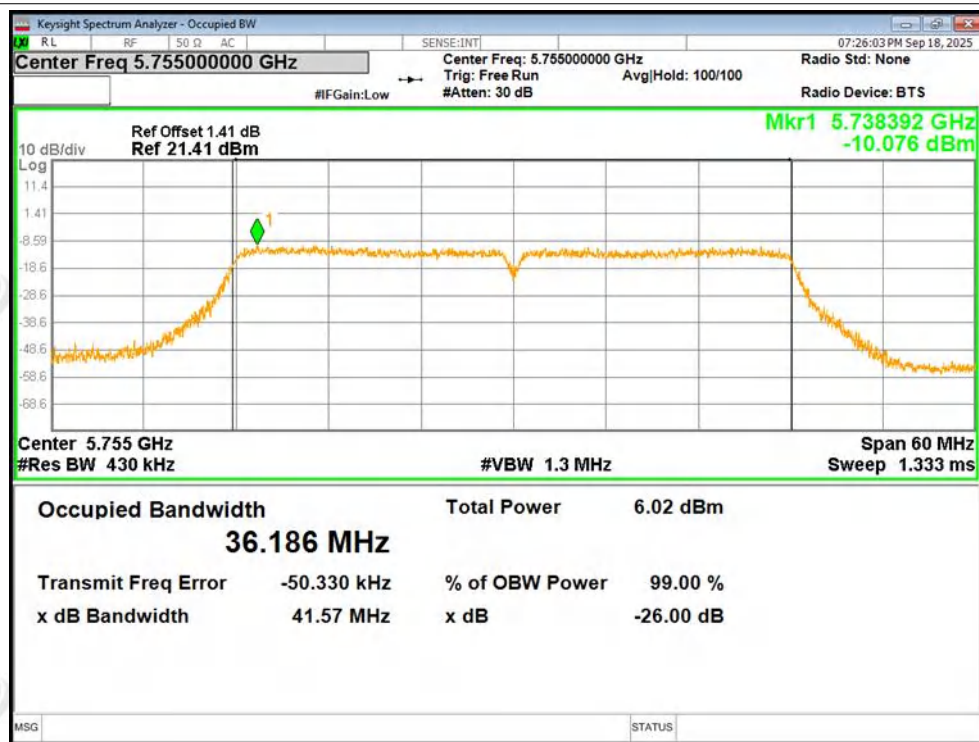




OBW NVNT ax20 5825MHz Ant1



OBW NVNT ax40 5755MHz Ant1

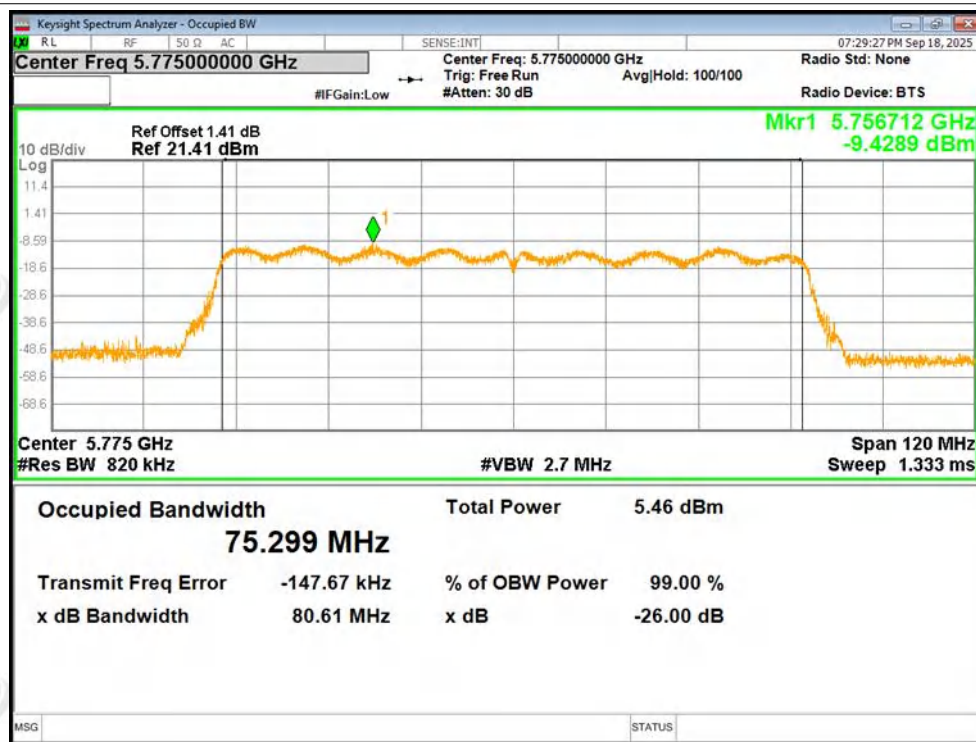




OBW NVNT ax40 5795MHz Ant1



OBW NVNT ax80 5775MHz Ant1



**ZHONGHAN****Maximum Power Spectral Density Level**

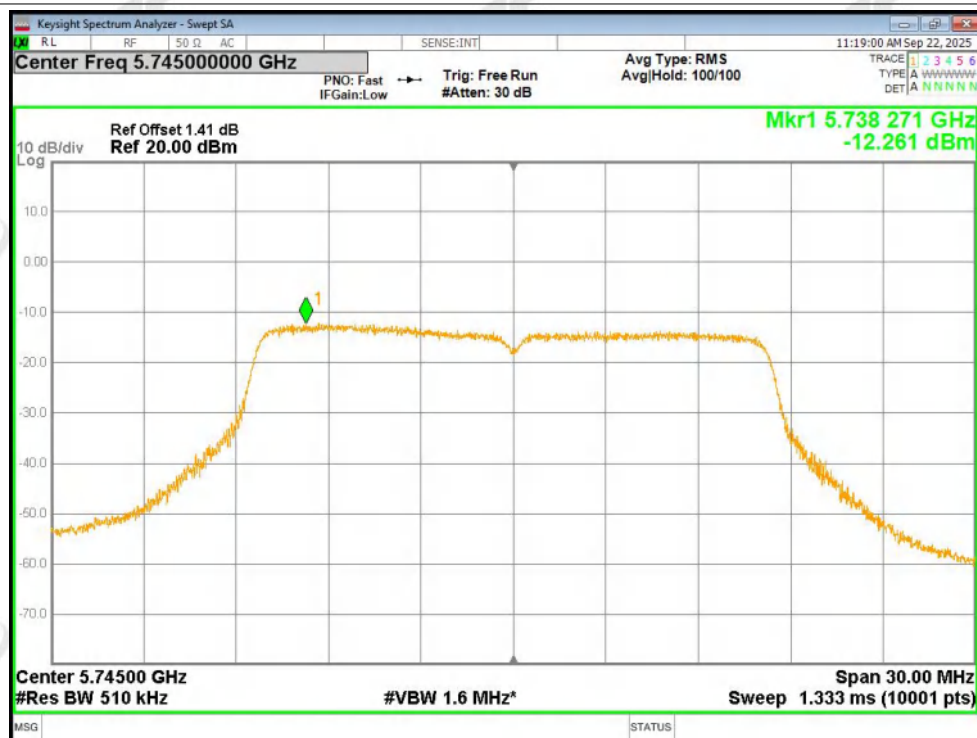
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	RB factor(dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-12.26	0	-0.086	-12.35	30	Pass
a	5785	Ant1	-15.27	0.34	-0.086	-15.02	30	Pass
a	5825	Ant1	-19.37	0.1	-0.086	-19.36	30	Pass
n20	5745	Ant1	-10.42	0.18	-0.086	-10.33	30	Pass
n20	5785	Ant1	-11.99	0.11	-0.086	-11.97	30	Pass
n20	5825	Ant1	-13.29	0.11	-0.086	-13.27	30	Pass
n40	5755	Ant1	-15.95	0.52	-0.086	-15.52	30	Pass
n40	5795	Ant1	-17.17	0.64	-0.086	-16.62	30	Pass
ac20	5745	Ant1	-14.33	0.13	-0.086	-14.29	30	Pass
ac20	5785	Ant1	-16.66	0.22	-0.086	-16.53	30	Pass
ac20	5825	Ant1	-13.98	0.09	-0.086	-13.98	30	Pass
ac40	5755	Ant1	-16.78	0.63	-0.086	-16.24	30	Pass
ac40	5795	Ant1	-18.02	0.43	-0.086	-17.68	30	Pass
ac80	5775	Ant1	-19.84	1.37	-0.086	-18.56	30	Pass
ax20	5745	Ant1	-11.57	0.2	-0.086	-11.46	30	Pass
ax20	5785	Ant1	-12.68	0.36	-0.086	-12.41	30	Pass
ax20	5825	Ant1	-14.16	0.35	-0.086	-13.90	30	Pass
ax40	5755	Ant1	-16.78	0.48	-0.086	-16.39	30	Pass
ax40	5795	Ant1	-18.54	0.72	-0.086	-17.91	30	Pass
ax80	5775	Ant1	-20.04	0.45	-0.086	-19.68	30	Pass

RB factor = $10 \lg (\text{Measure RB} / 500)$, Measure RB = 510 kHz

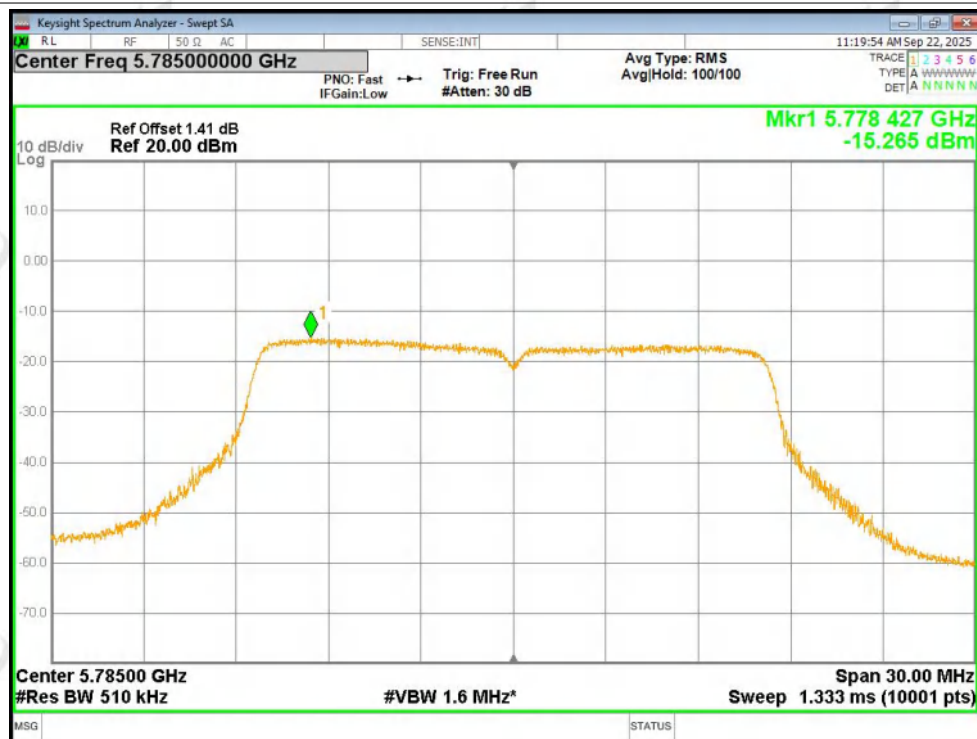
Total PSD = Conducted PSD + Duty factor(dB) + RB factor(dB)

Test Graphs

PSD NVNT a 5745MHz Ant1

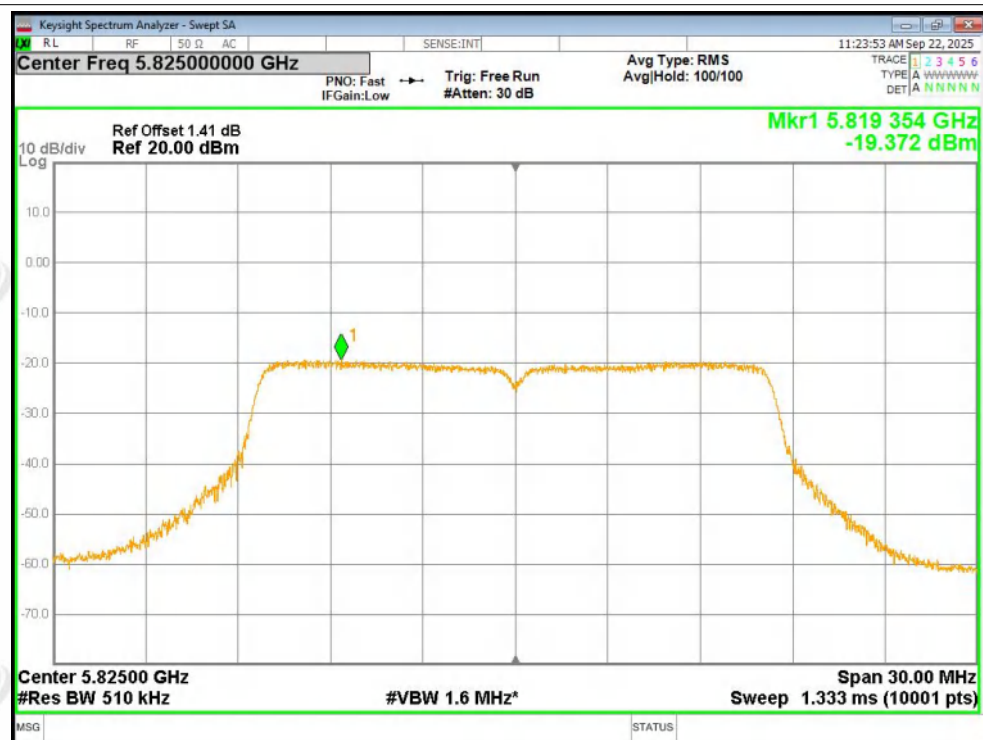


PSD NVNT a 5785MHz Ant1

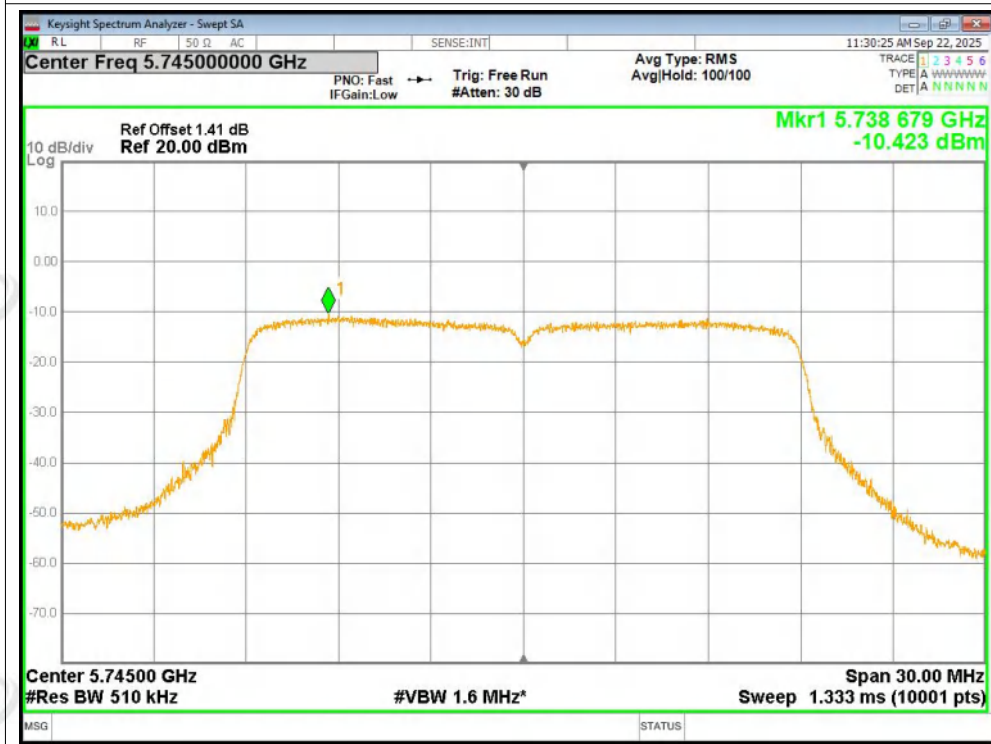




PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1

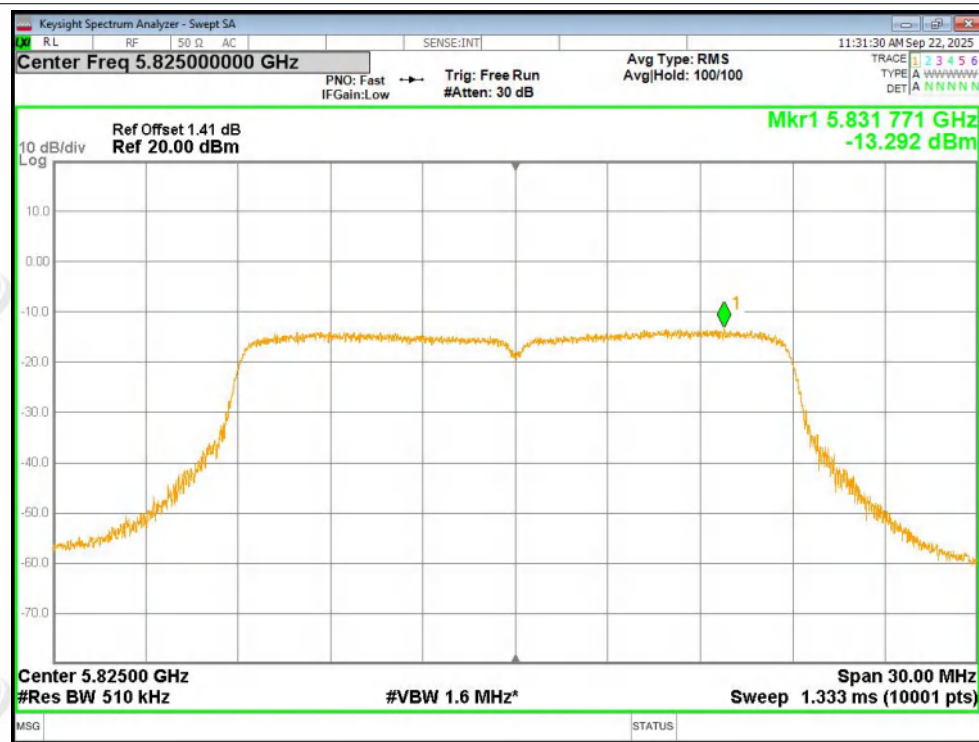




PSD NVNT n20 5785MHz Ant1

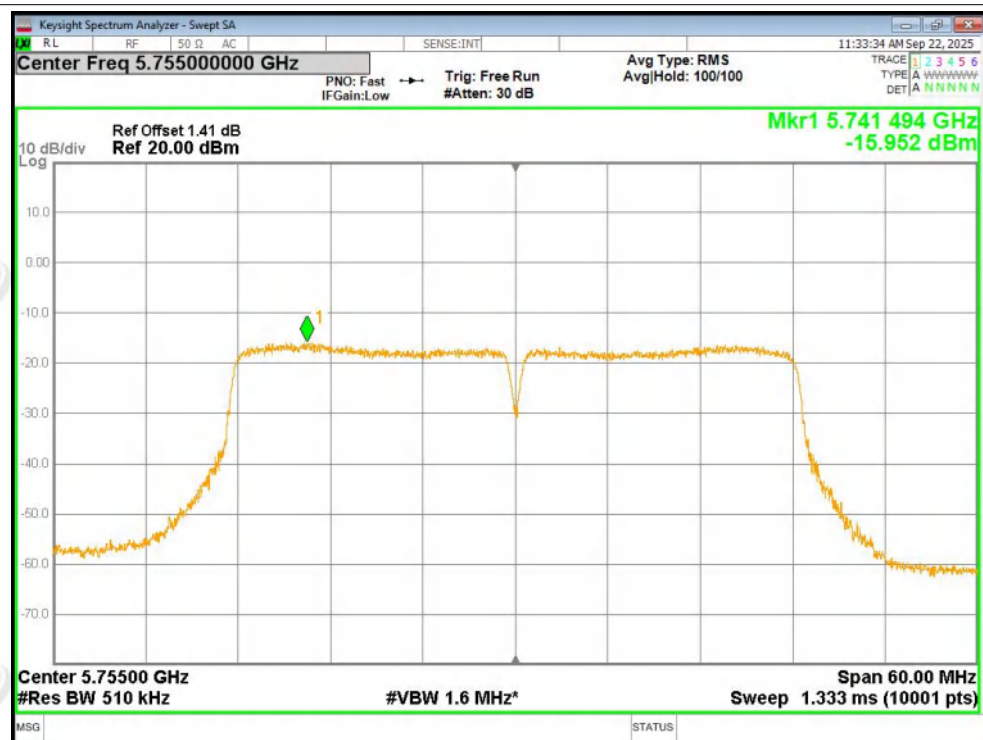


PSD NVNT n20 5825MHz Ant1

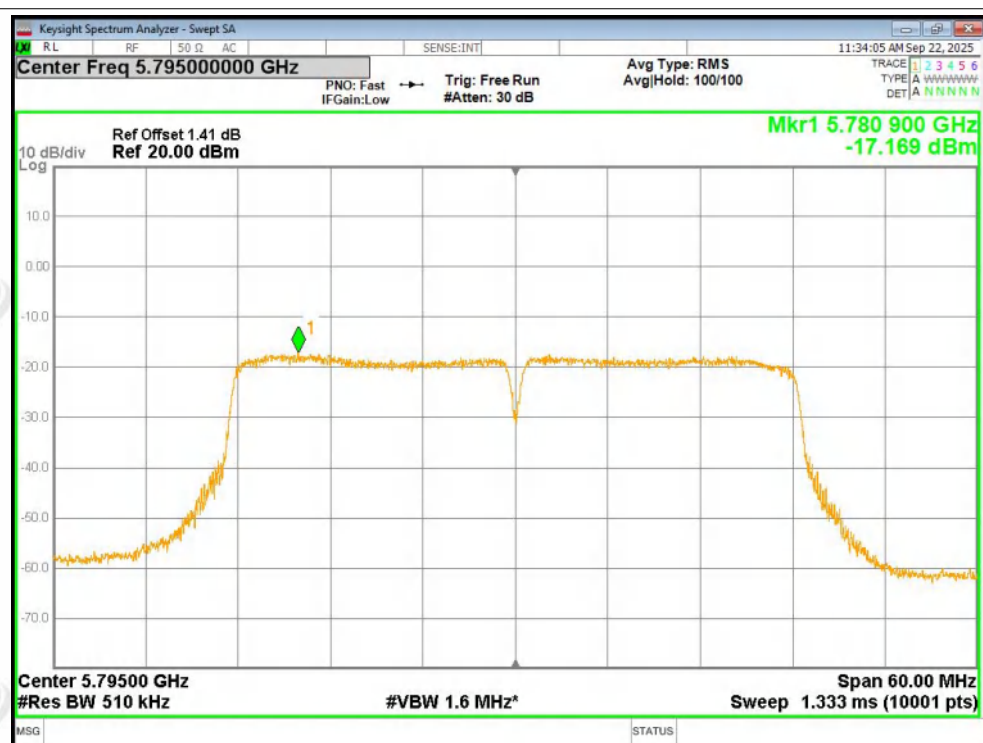




PSD NVNT n40 5755MHz Ant1

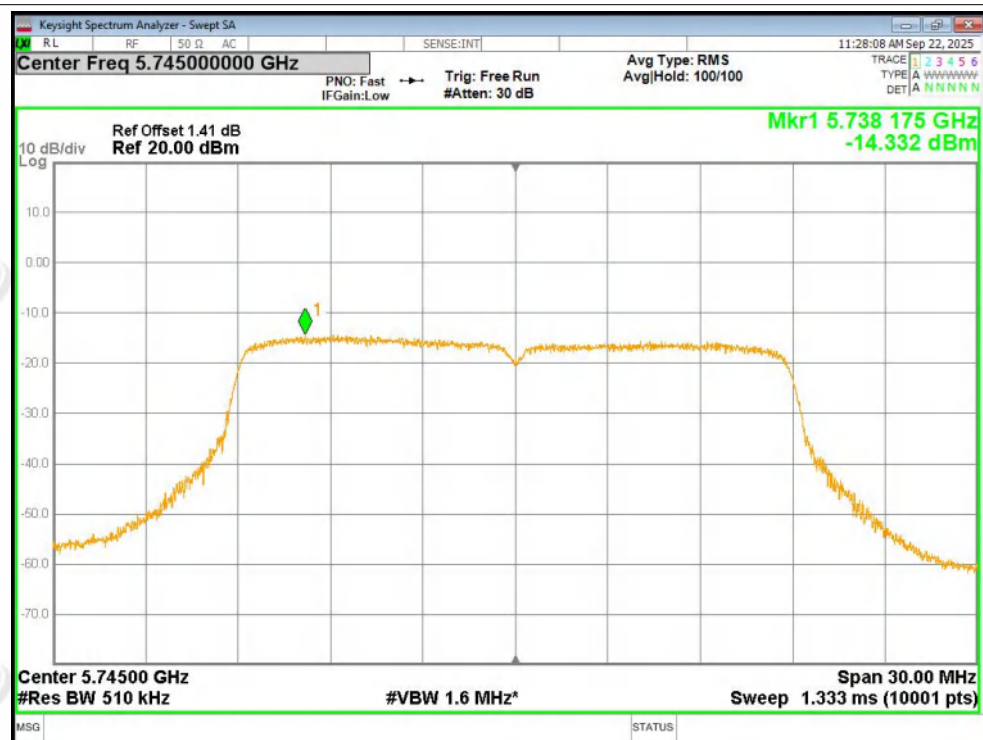


PSD NVNT n40 5795MHz Ant1

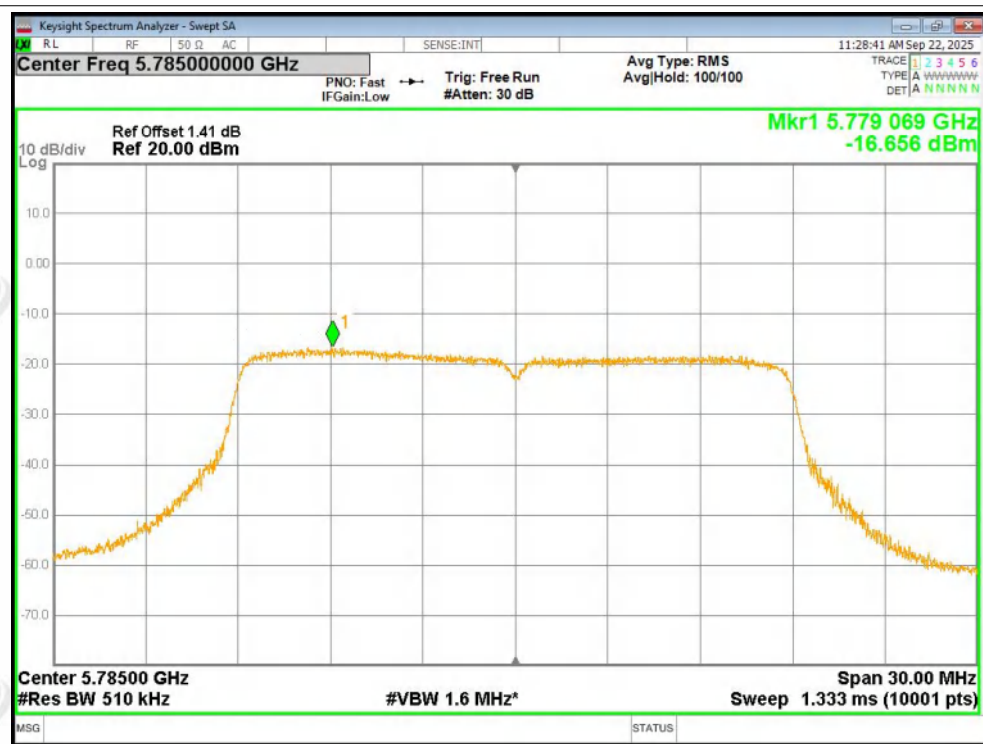




PSD NVNT ac20 5745MHz Ant1

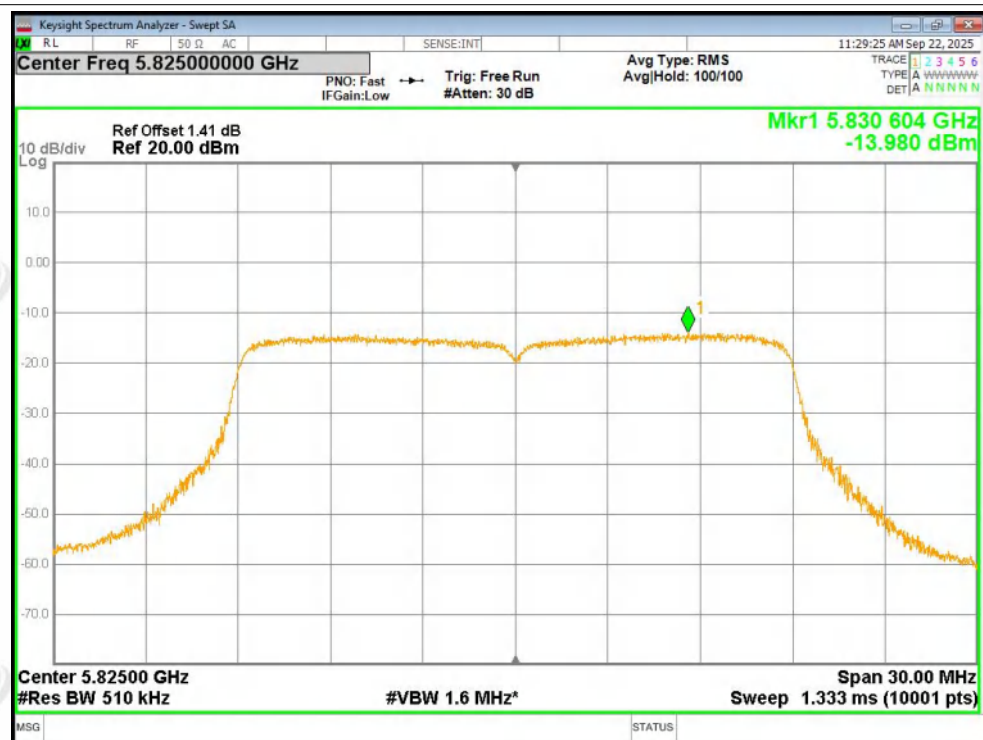


PSD NVNT ac20 5785MHz Ant1





PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1

