



Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Intelligent Link Terminal

Test Model: ST13

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Nick Peng





E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	14.244	>=0.5	Pass
NVNT	a	5785	Ant1	15.008	>=0.5	Pass
NVNT	a	5825	Ant1	14.924	>=0.5	Pass
NVNT	n20	5745	Ant1	15.646	>=0.5	Pass
NVNT	n20	5785	Ant1	15.059	>=0.5	Pass
NVNT	n20	5825	Ant1	15.094	>=0.5	Pass
NVNT	n40	5755	Ant1	35.09	>=0.5	Pass
NVNT	n40	5795	Ant1	32.61	>=0.5	Pass
NVNT	ac20	5745	Ant1	17.041	>=0.5	Pass
NVNT	ac20	5785	Ant1	15.037	>=0.5	Pass
NVNT	ac20	5825	Ant1	15.063	>=0.5	Pass
NVNT	ac40	5755	Ant1	35.004	>=0.5	Pass
NVNT	ac40	5795	Ant1	33.861	>=0.5	Pass
NVNT	ac80	5775	Ant1	75.091	>=0.5	Pass

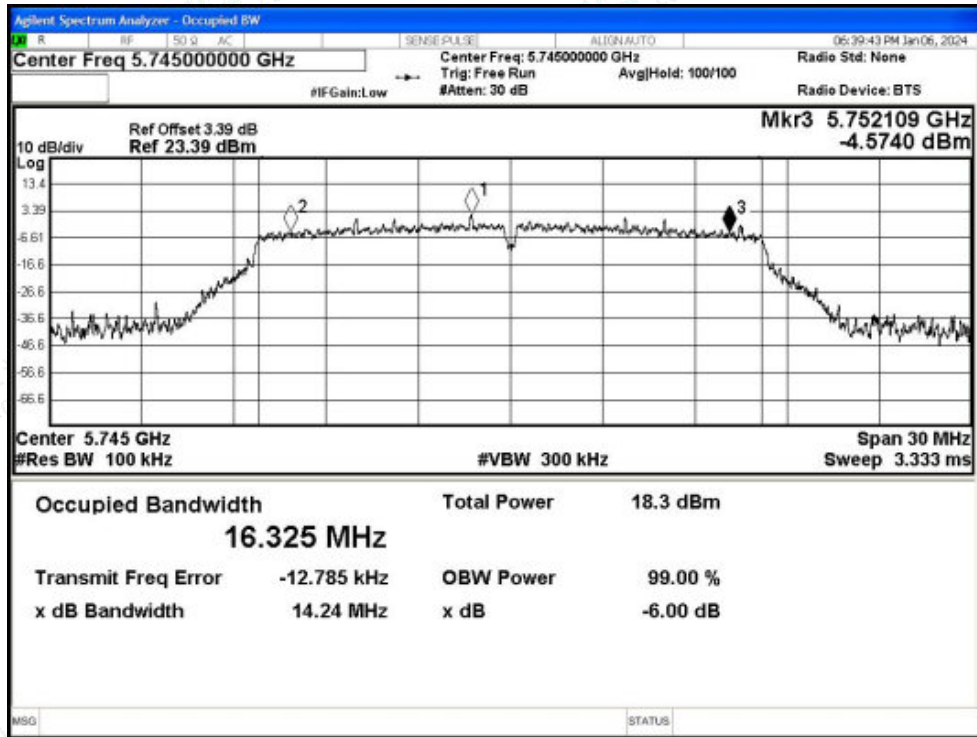


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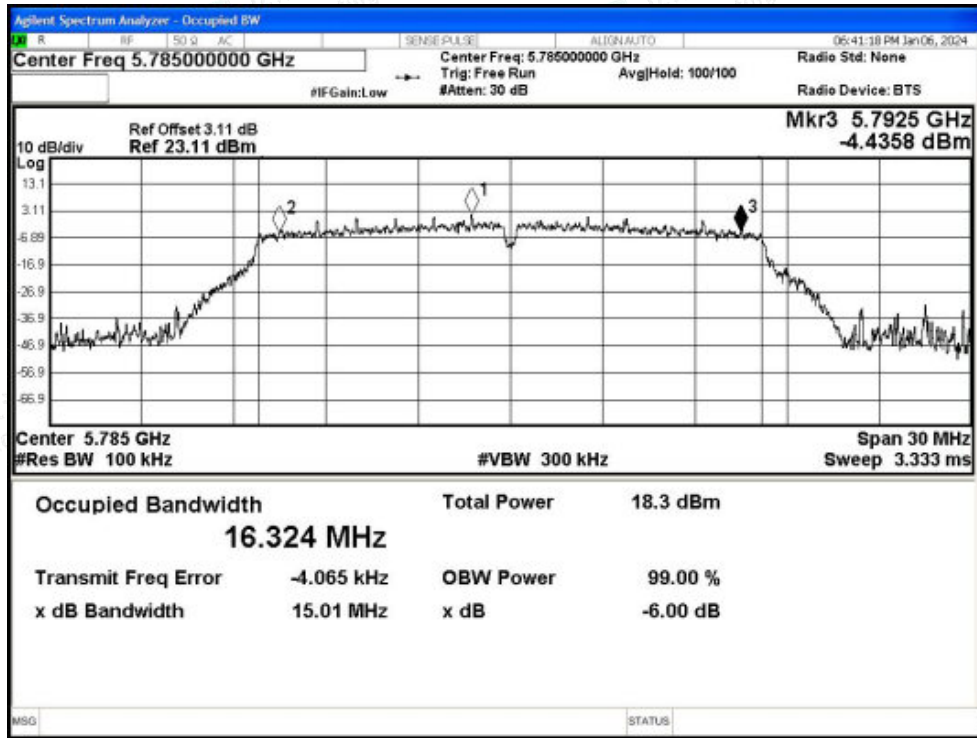


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1

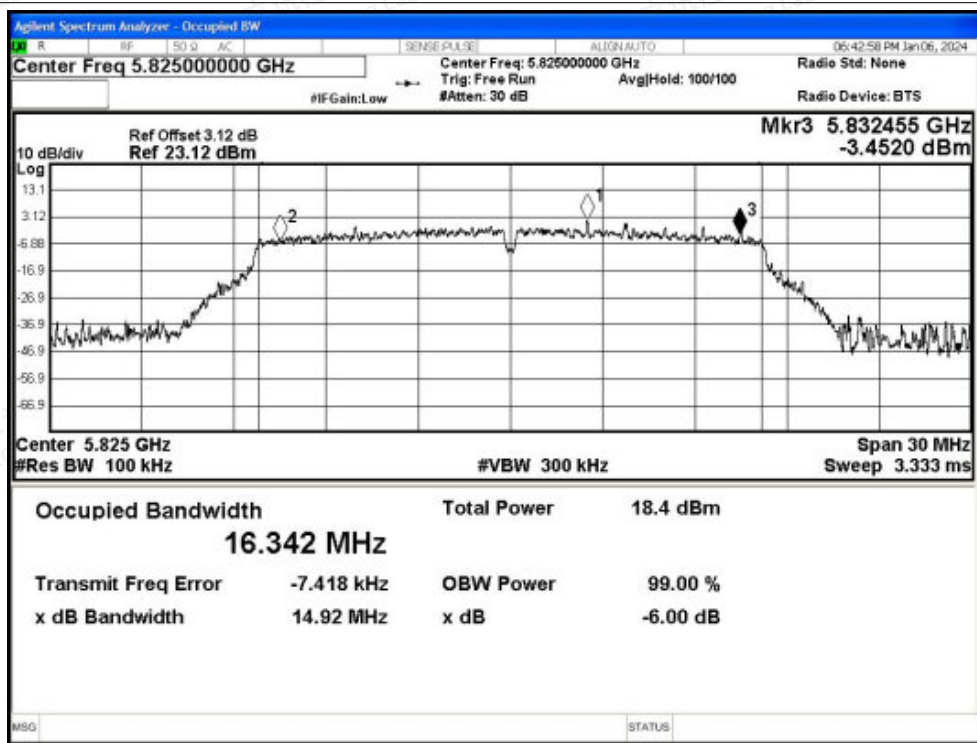


-6dB Bandwidth NVNT a 5785MHz Ant1





-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1

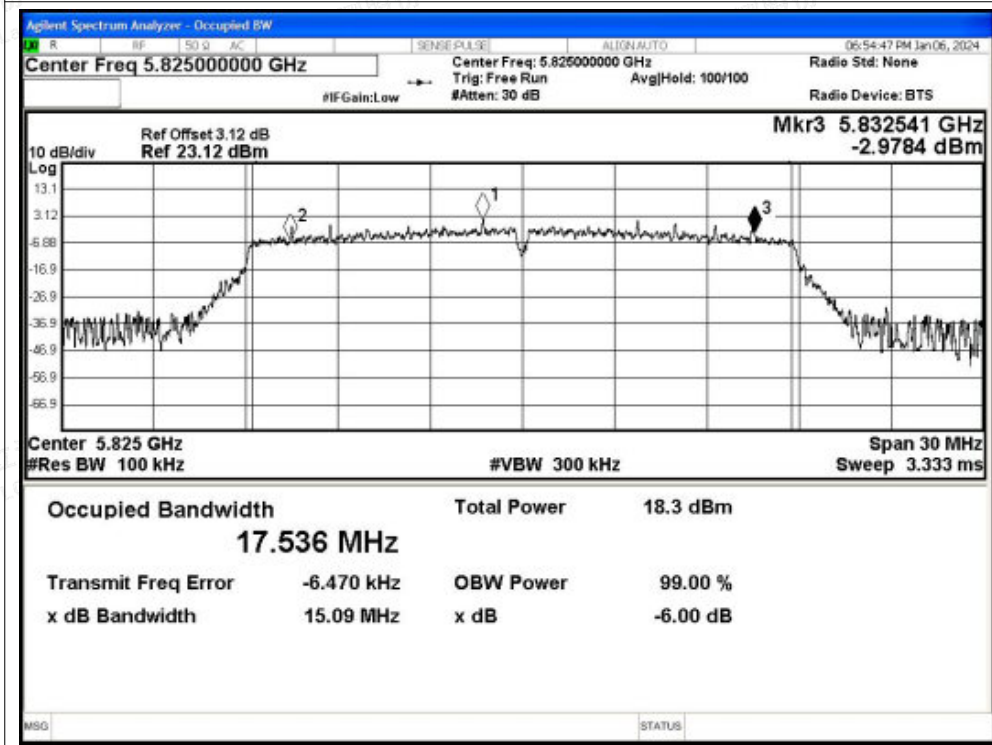




-6dB Bandwidth NVNT n20 5785MHz Ant1

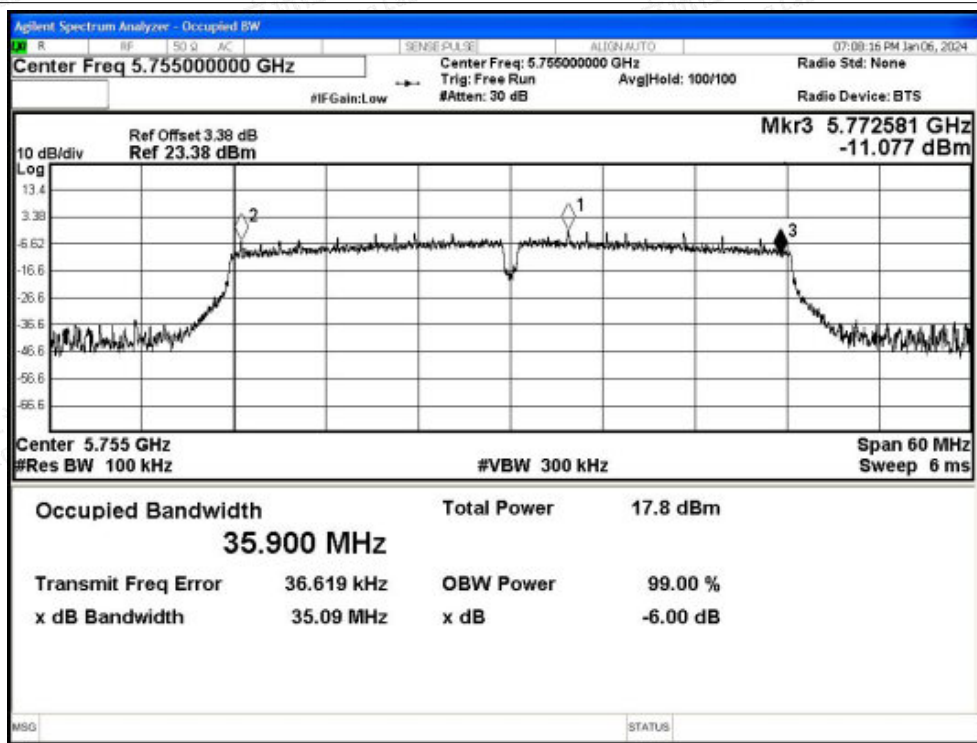


-6dB Bandwidth NVNT n20 5825MHz Ant1

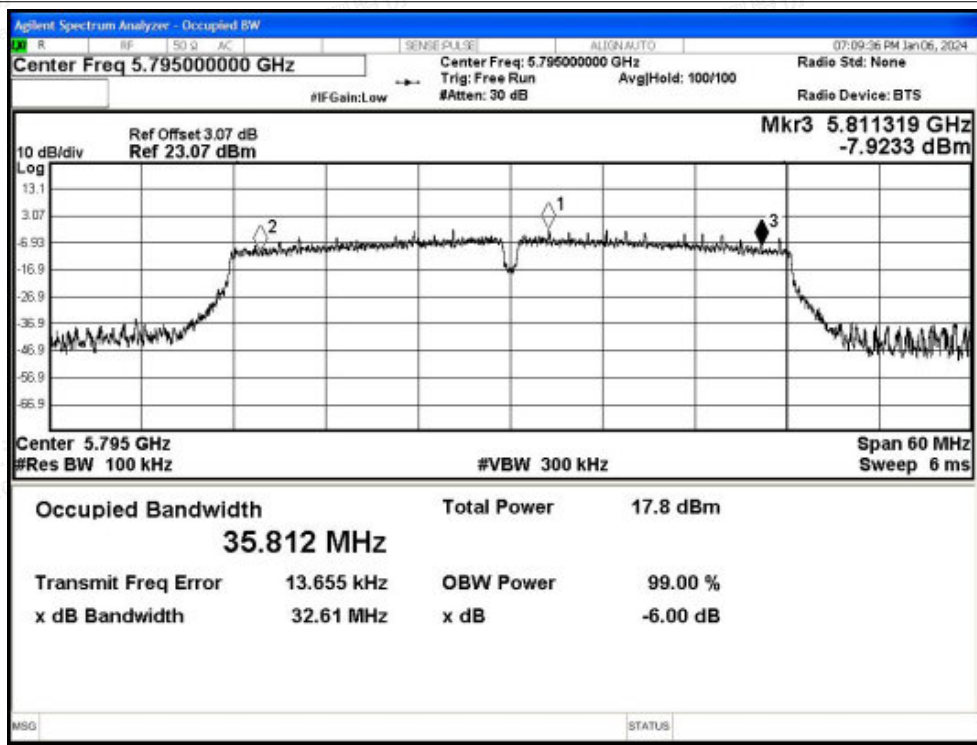




-6dB Bandwidth NVNT n40 5755MHz Ant1

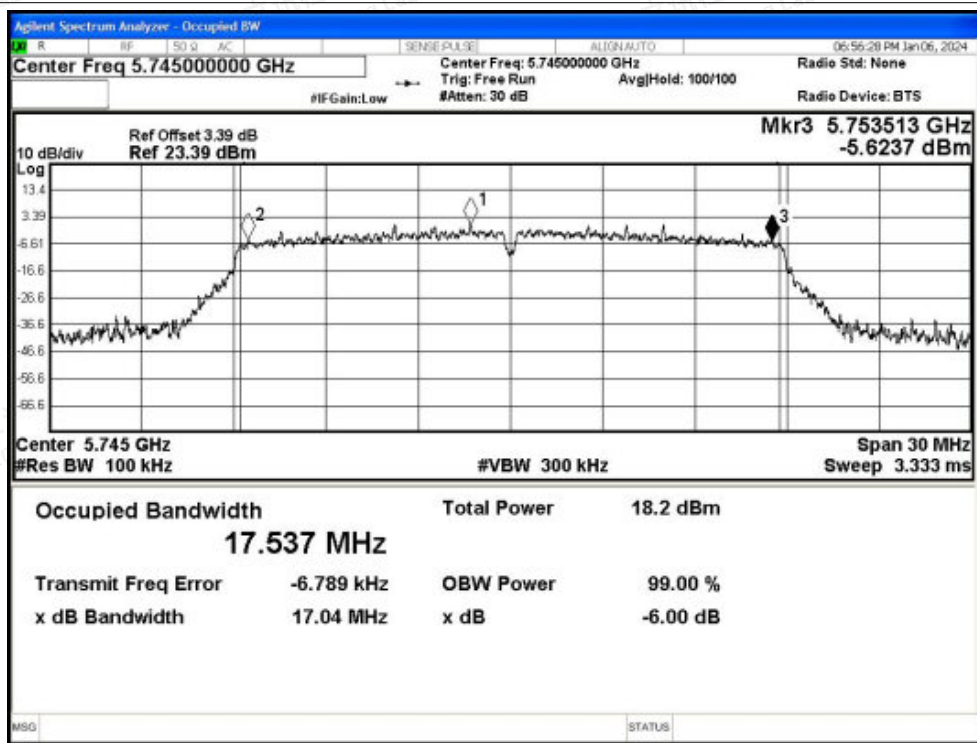


-6dB Bandwidth NVNT n40 5795MHz Ant1





-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1

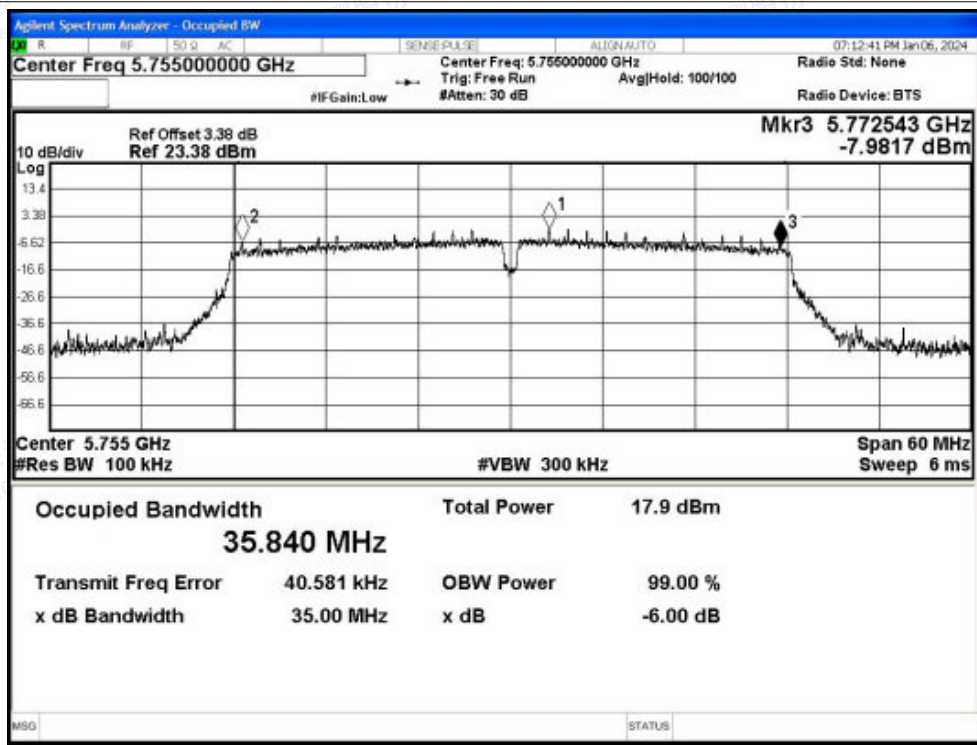




-6dB Bandwidth NVNT ac20 5825MHz Ant1

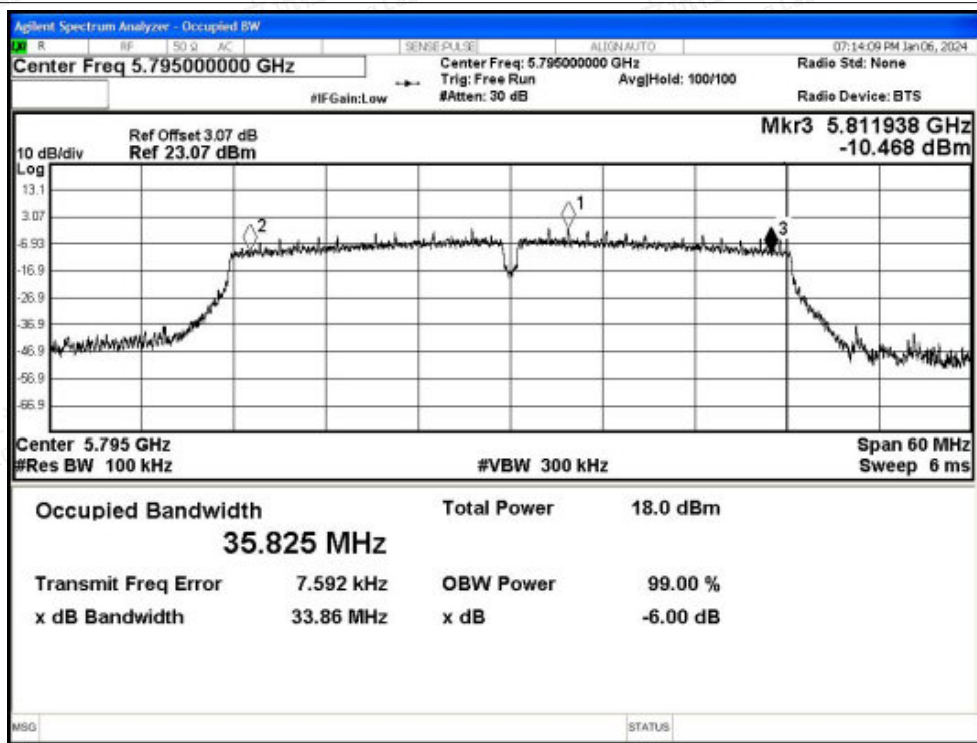


-6dB Bandwidth NVNT ac40 5755MHz Ant1

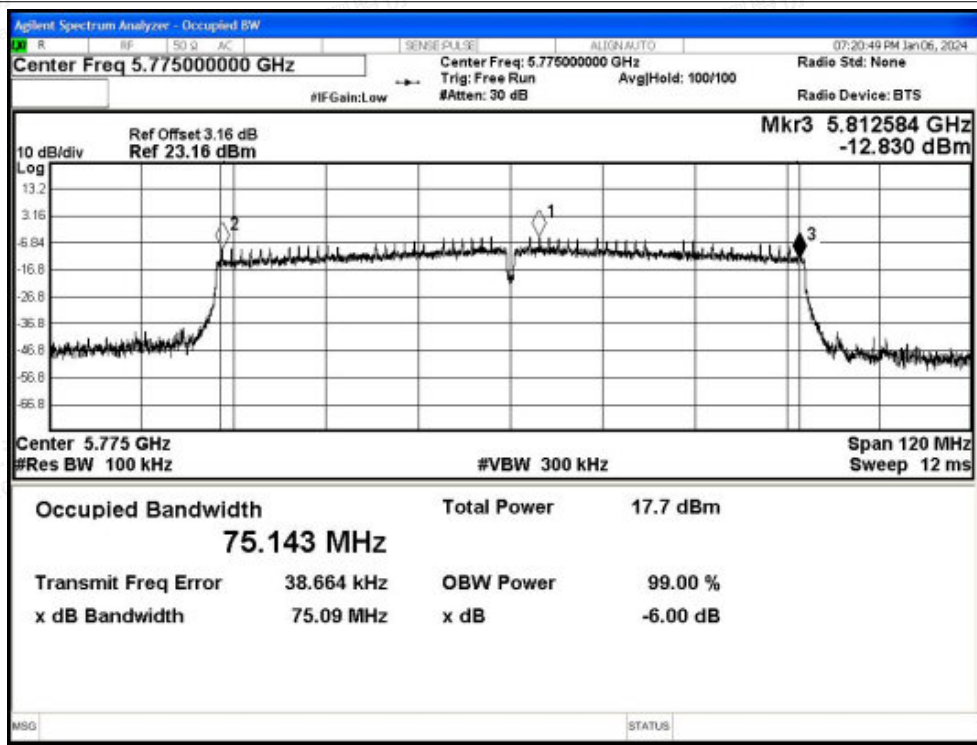




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant2	15.084	>=0.5	Pass
NVNT	a	5785	Ant2	14.996	>=0.5	Pass
NVNT	a	5825	Ant2	15.037	>=0.5	Pass
NVNT	n20	5745	Ant2	15.077	>=0.5	Pass
NVNT	n20	5785	Ant2	15.67	>=0.5	Pass
NVNT	n20	5825	Ant2	15.086	>=0.5	Pass
NVNT	n40	5755	Ant2	34.971	>=0.5	Pass
NVNT	n40	5795	Ant2	33.835	>=0.5	Pass
NVNT	ac20	5745	Ant2	14.703	>=0.5	Pass
NVNT	ac20	5785	Ant2	15.012	>=0.5	Pass
NVNT	ac20	5825	Ant2	12.938	>=0.5	Pass
NVNT	ac40	5755	Ant2	35.087	>=0.5	Pass
NVNT	ac40	5795	Ant2	35.079	>=0.5	Pass
NVNT	ac80	5775	Ant2	75.103	>=0.5	Pass

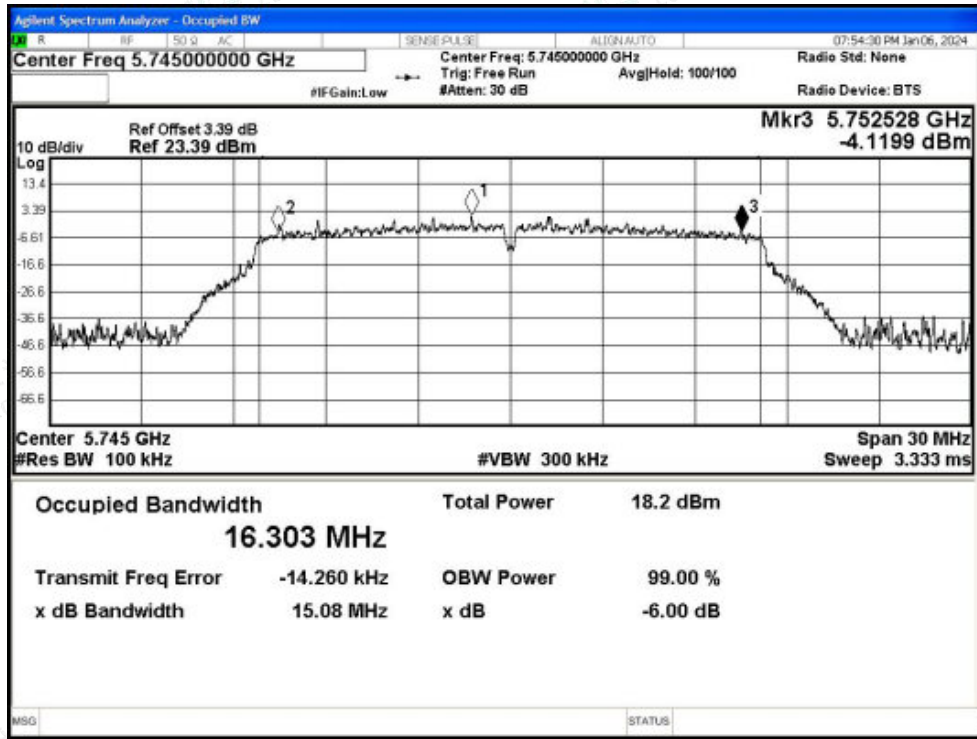


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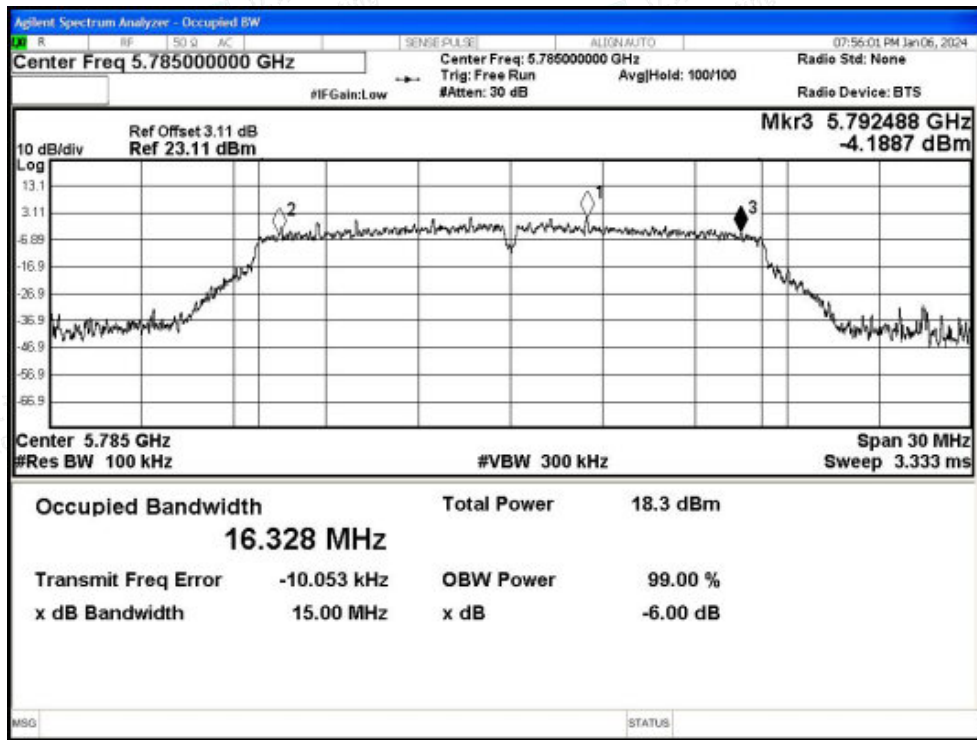


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant2



-6dB Bandwidth NVNT a 5785MHz Ant2





-6dB Bandwidth NVNT a 5825MHz Ant2



-6dB Bandwidth NVNT n20 5745MHz Ant2

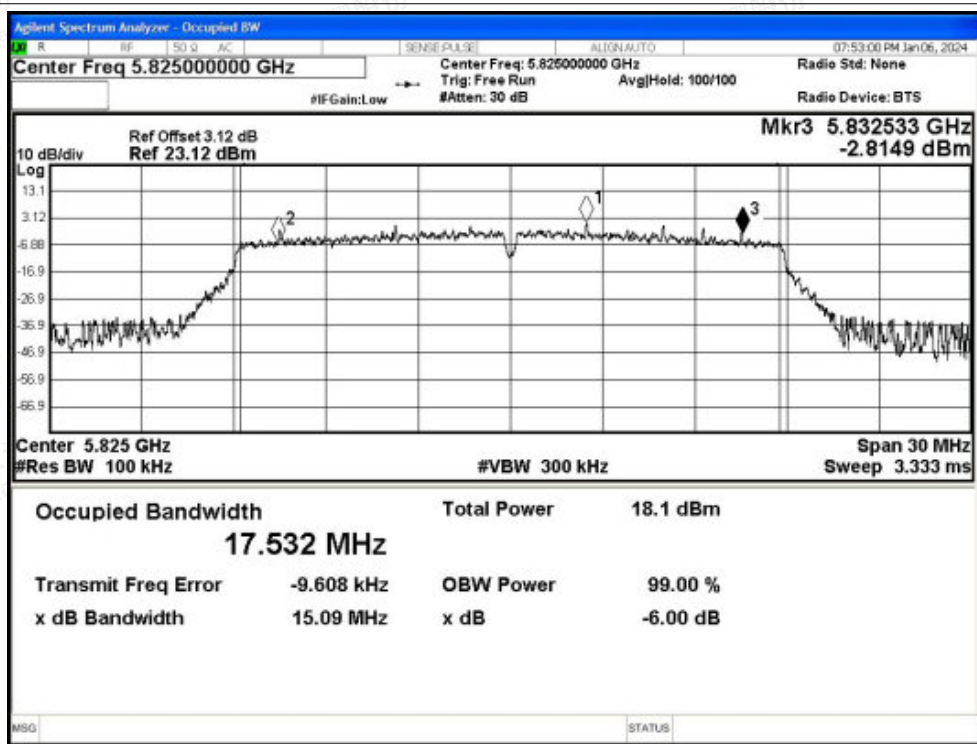




-6dB Bandwidth NVNT n20 5785MHz Ant2

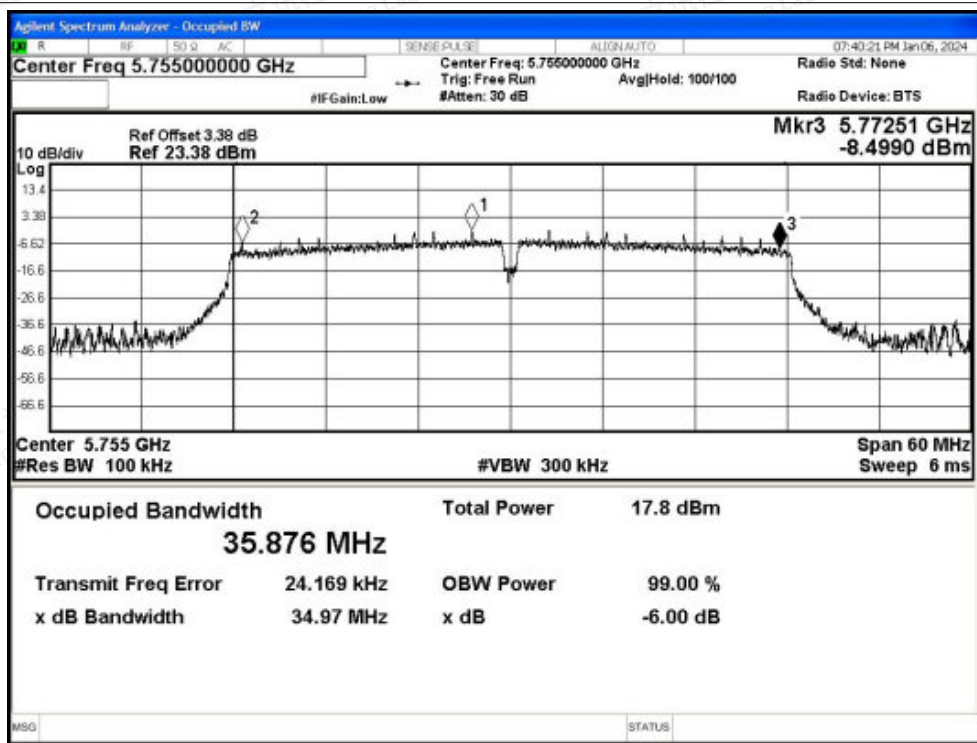


-6dB Bandwidth NVNT n20 5825MHz Ant2

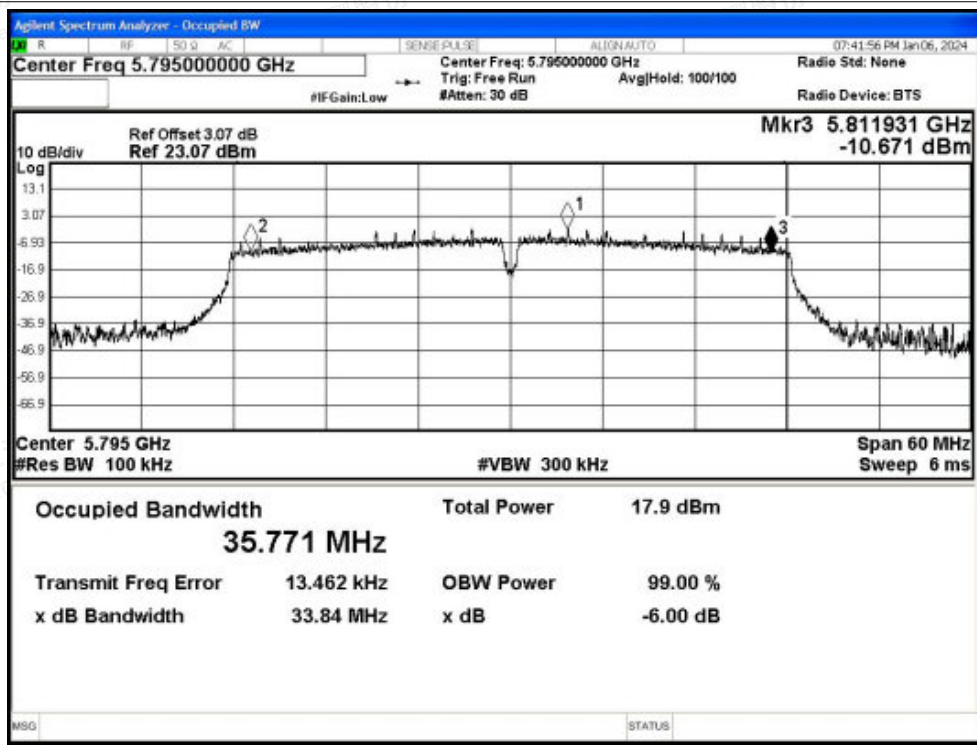




-6dB Bandwidth NVNT n40 5755MHz Ant2

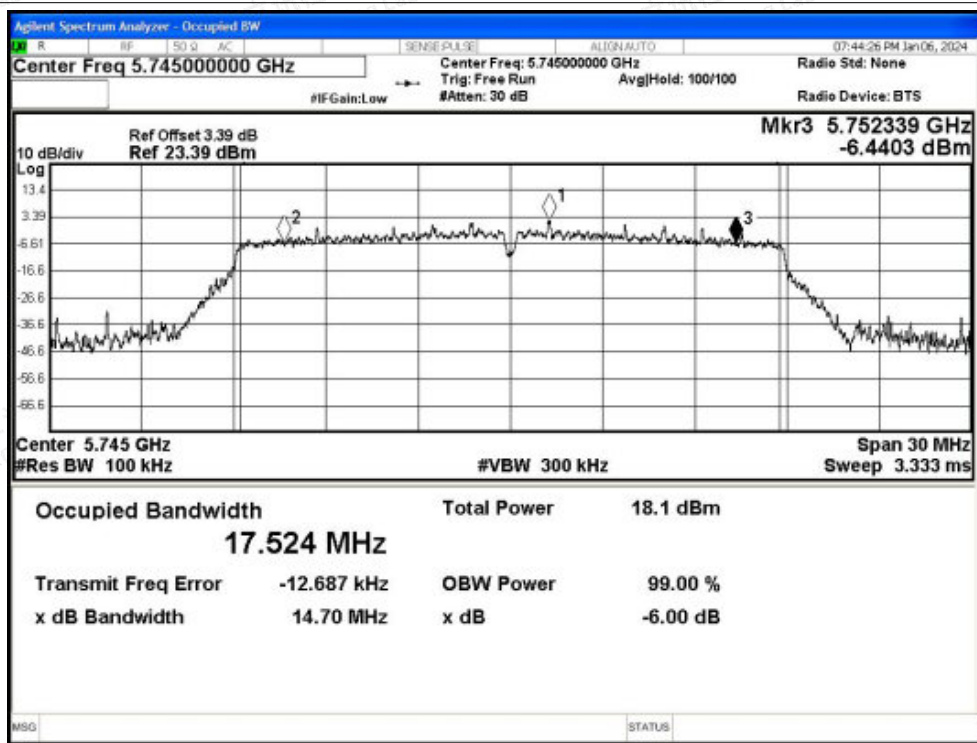


-6dB Bandwidth NVNT n40 5795MHz Ant2

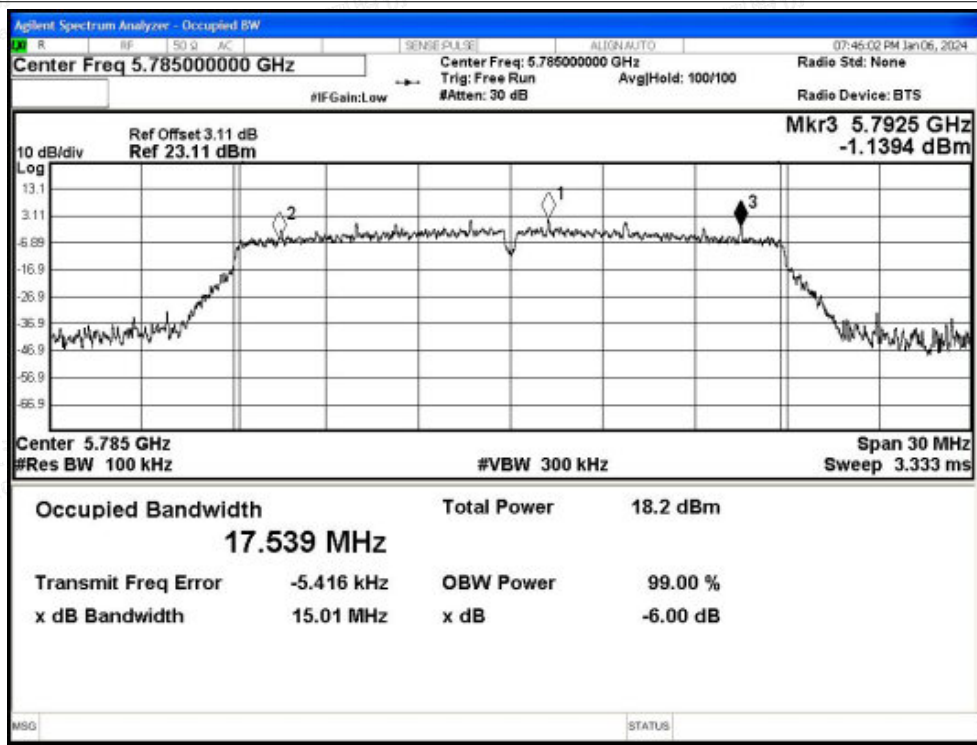




-6dB Bandwidth NVNT ac20 5745MHz Ant2

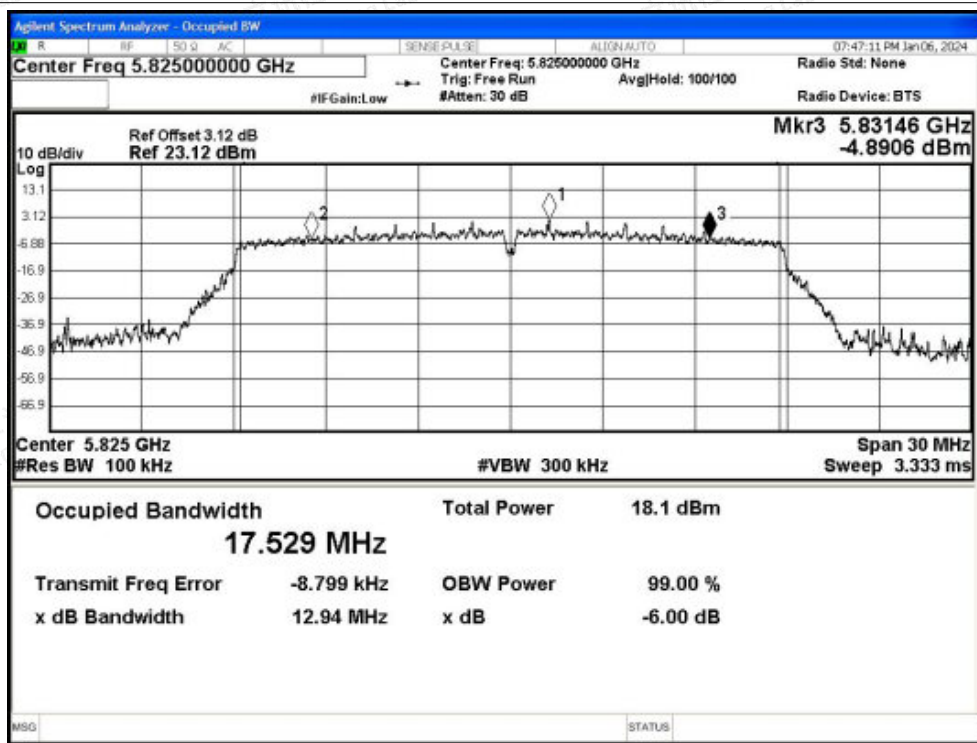


-6dB Bandwidth NVNT ac20 5785MHz Ant2

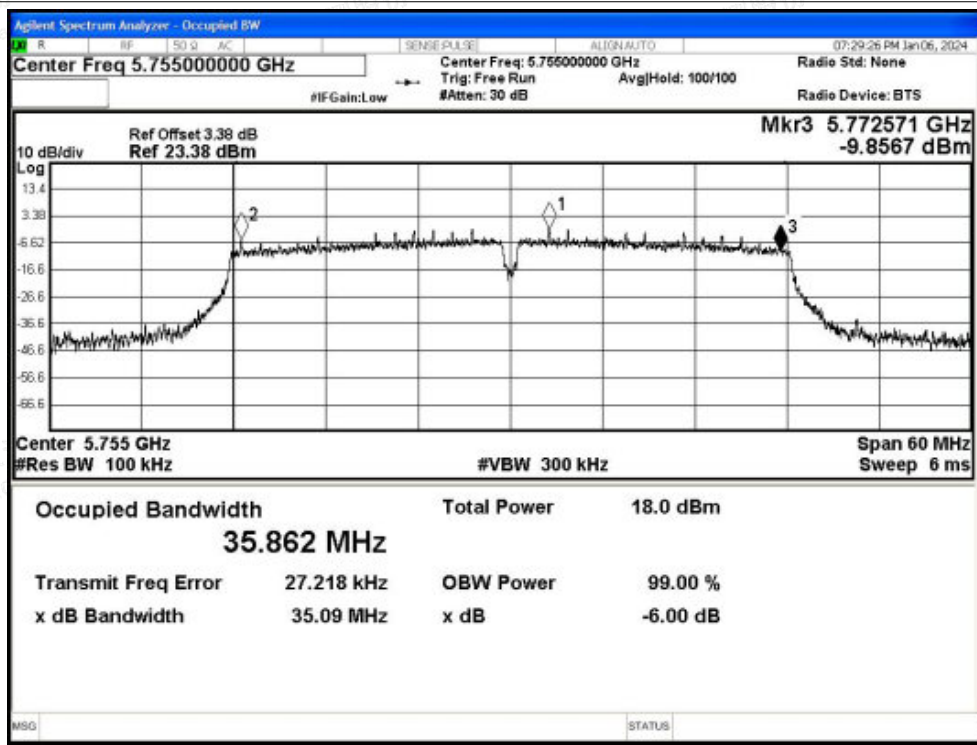




-6dB Bandwidth NVNT ac20 5825MHz Ant2

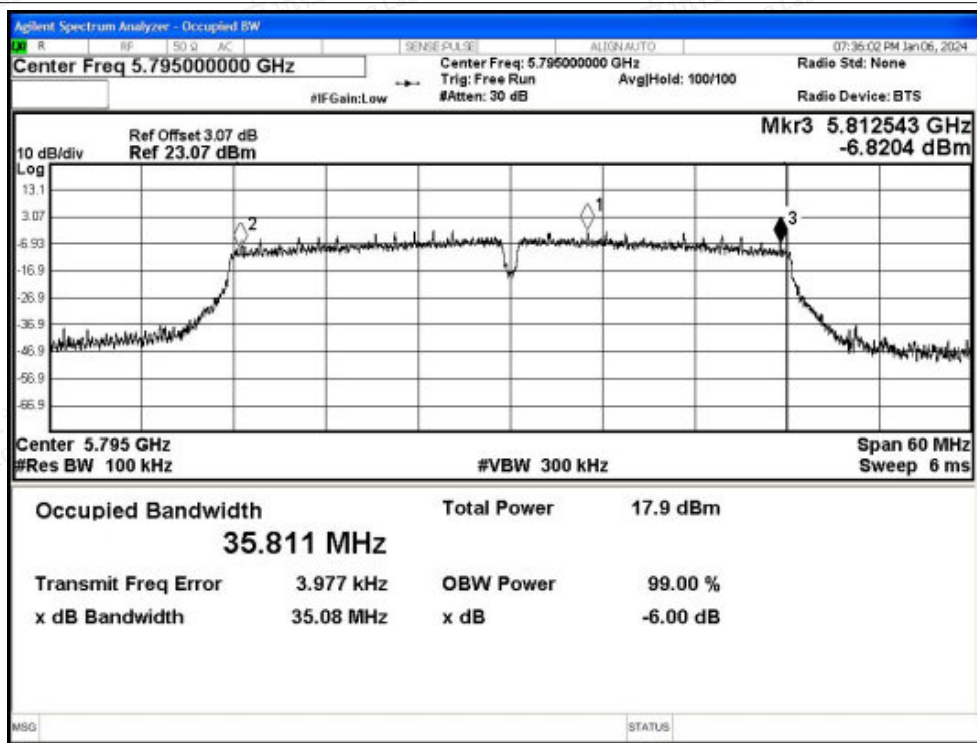


-6dB Bandwidth NVNT ac40 5755MHz Ant2

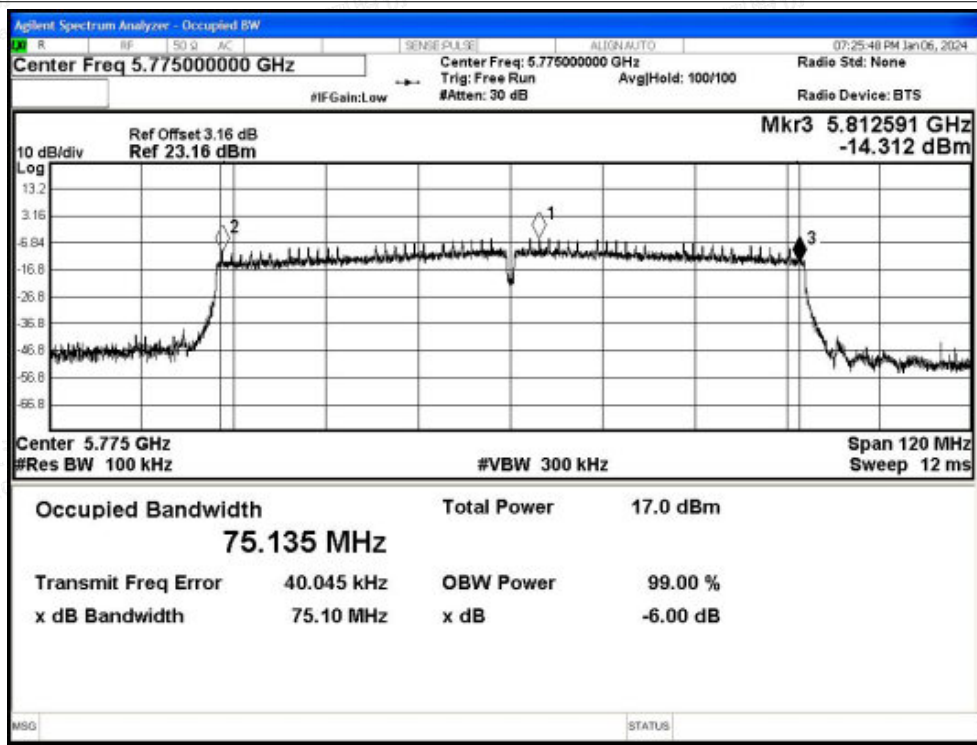




-6dB Bandwidth NVNT ac40 5795MHz Ant2



-6dB Bandwidth NVNT ac80 5775MHz Ant2





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant3	14.432	>=0.5	Pass
NVNT	a	5785	Ant3	16.047	>=0.5	Pass
NVNT	a	5825	Ant3	16.07	>=0.5	Pass
NVNT	n20	5745	Ant3	15.019	>=0.5	Pass
NVNT	n20	5785	Ant3	14.198	>=0.5	Pass
NVNT	n20	5825	Ant3	15.302	>=0.5	Pass
NVNT	n40	5755	Ant3	35.011	>=0.5	Pass
NVNT	n40	5795	Ant3	32.582	>=0.5	Pass
NVNT	ac20	5745	Ant3	15.069	>=0.5	Pass
NVNT	ac20	5785	Ant3	15.102	>=0.5	Pass
NVNT	ac20	5825	Ant3	16.521	>=0.5	Pass
NVNT	ac40	5755	Ant3	35.118	>=0.5	Pass
NVNT	ac40	5795	Ant3	35.024	>=0.5	Pass
NVNT	ac80	5775	Ant3	75.086	>=0.5	Pass

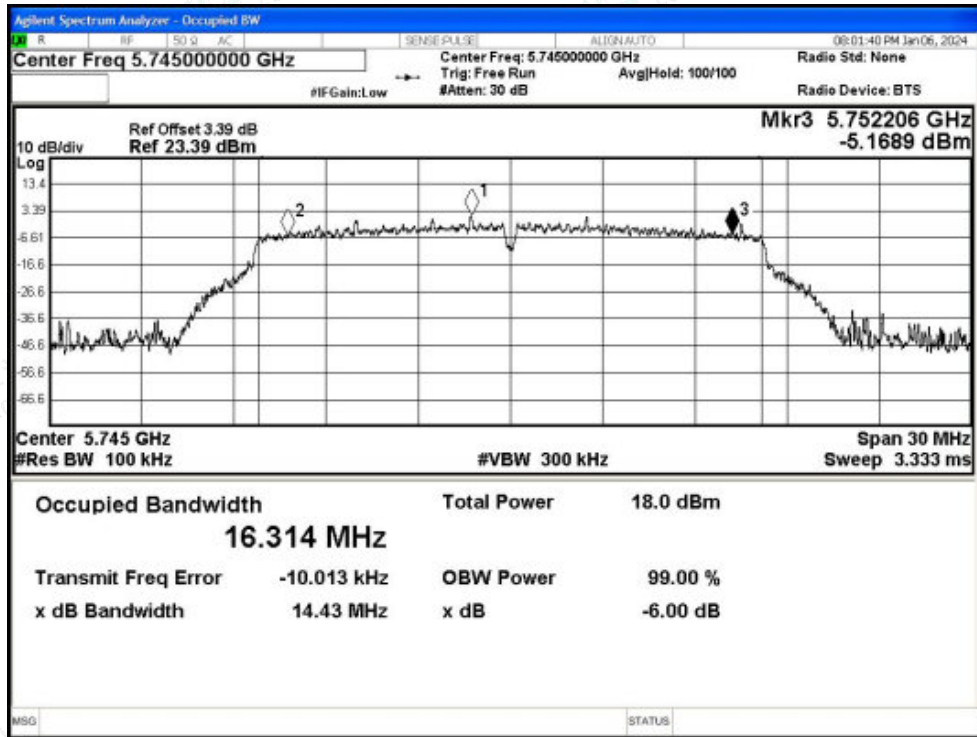


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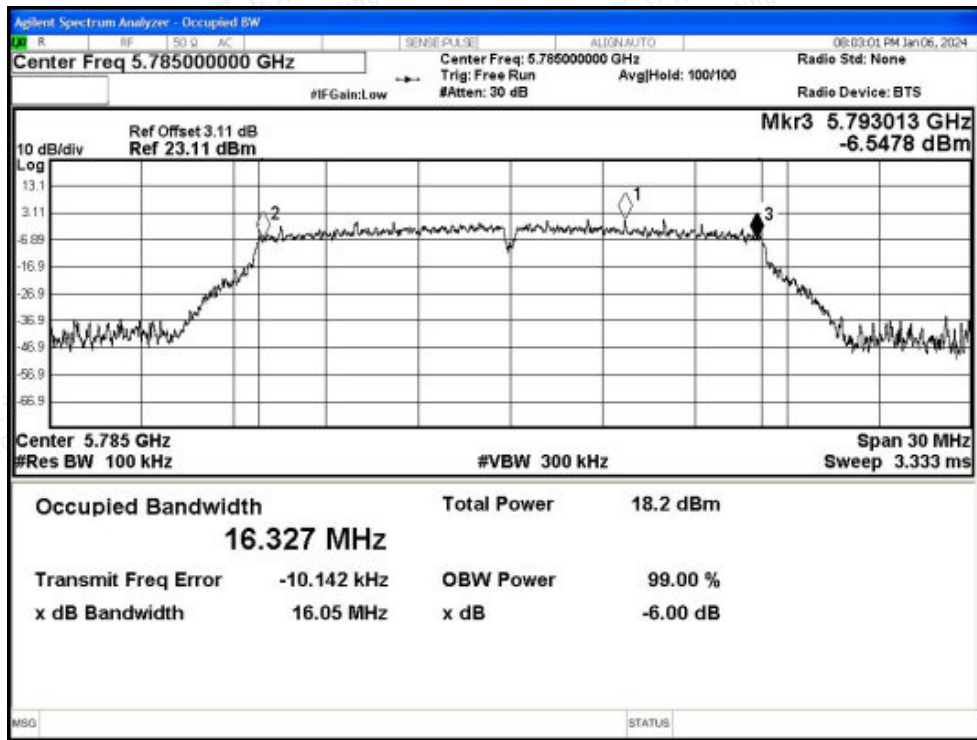


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant3

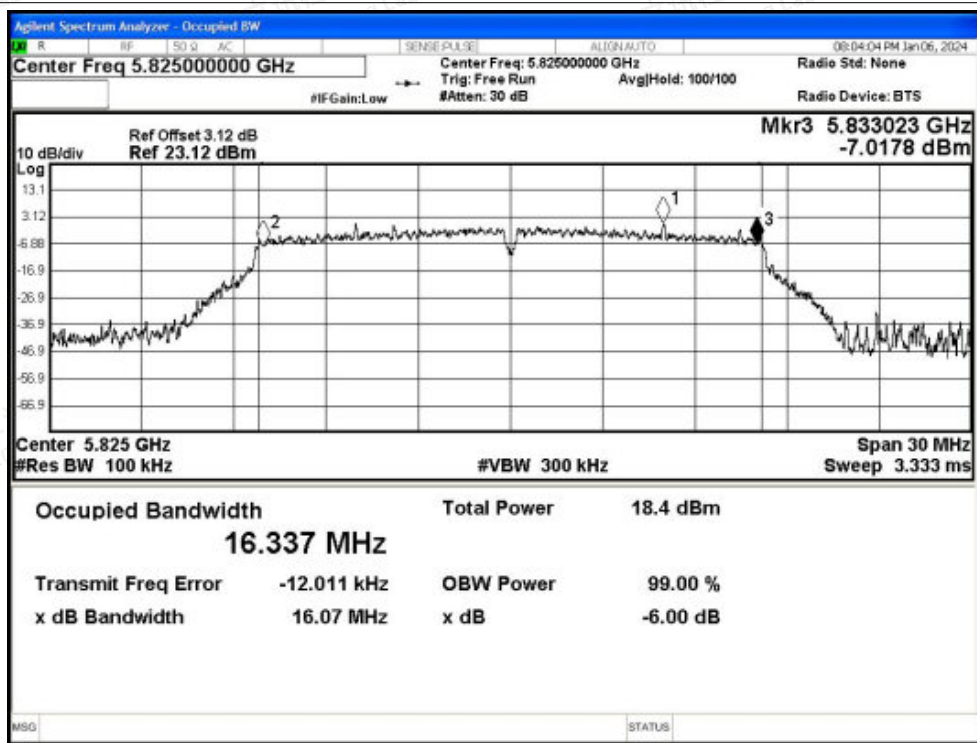


-6dB Bandwidth NVNT a 5785MHz Ant3

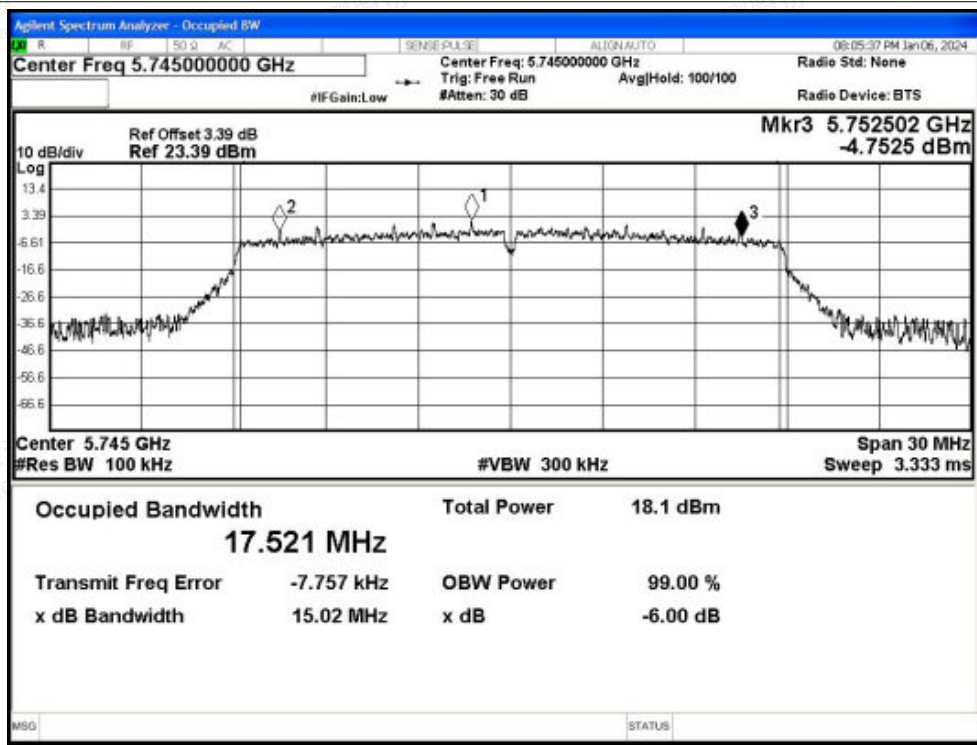




-6dB Bandwidth NVNT a 5825MHz Ant3



-6dB Bandwidth NVNT n20 5745MHz Ant3

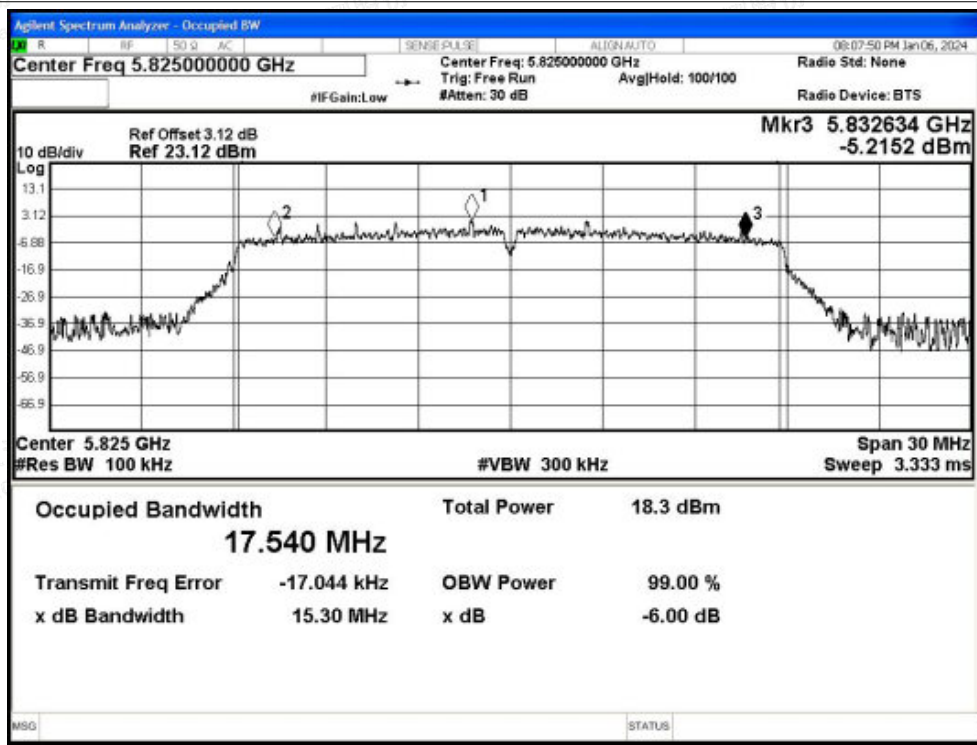




-6dB Bandwidth NVNT n20 5785MHz Ant3

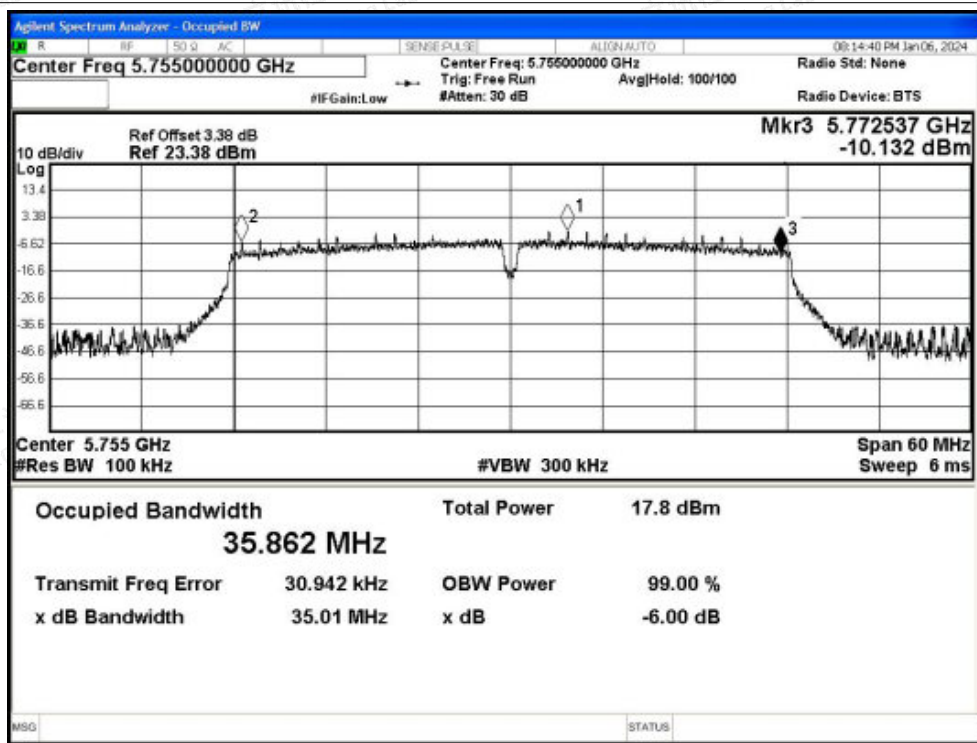


-6dB Bandwidth NVNT n20 5825MHz Ant3

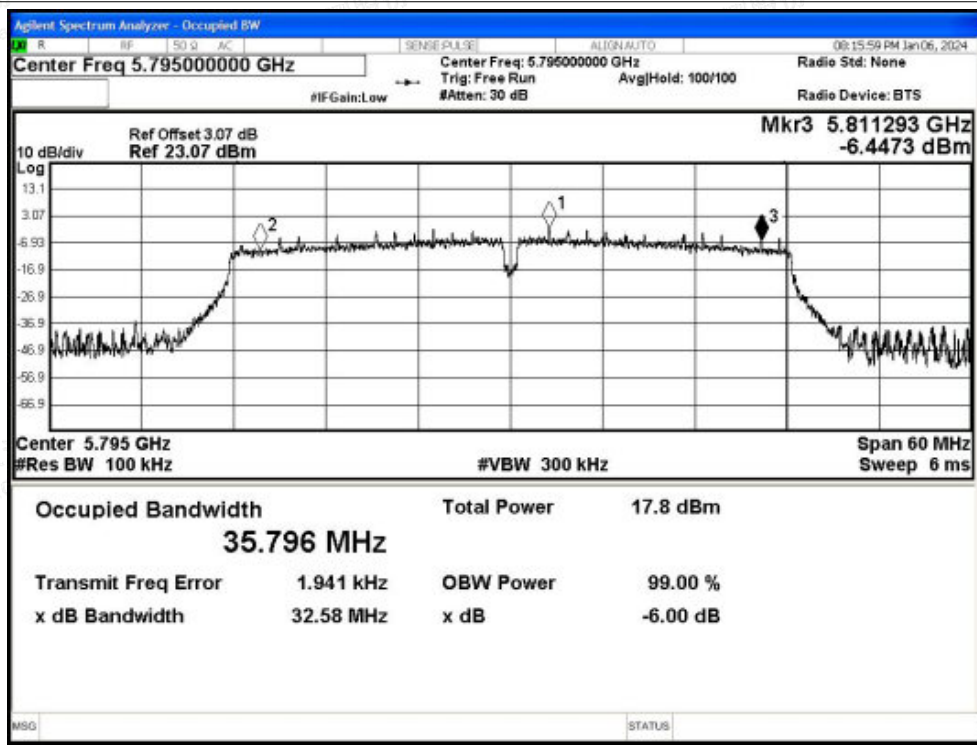




-6dB Bandwidth NVNT n40 5755MHz Ant3



-6dB Bandwidth NVNT n40 5795MHz Ant3





-6dB Bandwidth NVNT ac20 5745MHz Ant3

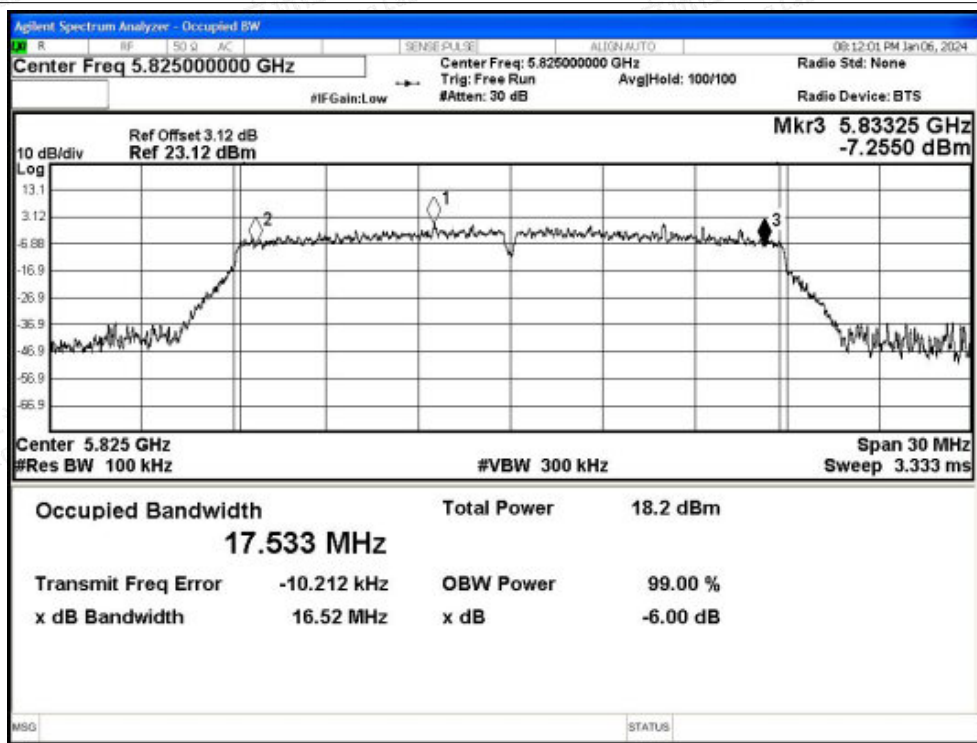


-6dB Bandwidth NVNT ac20 5785MHz Ant3

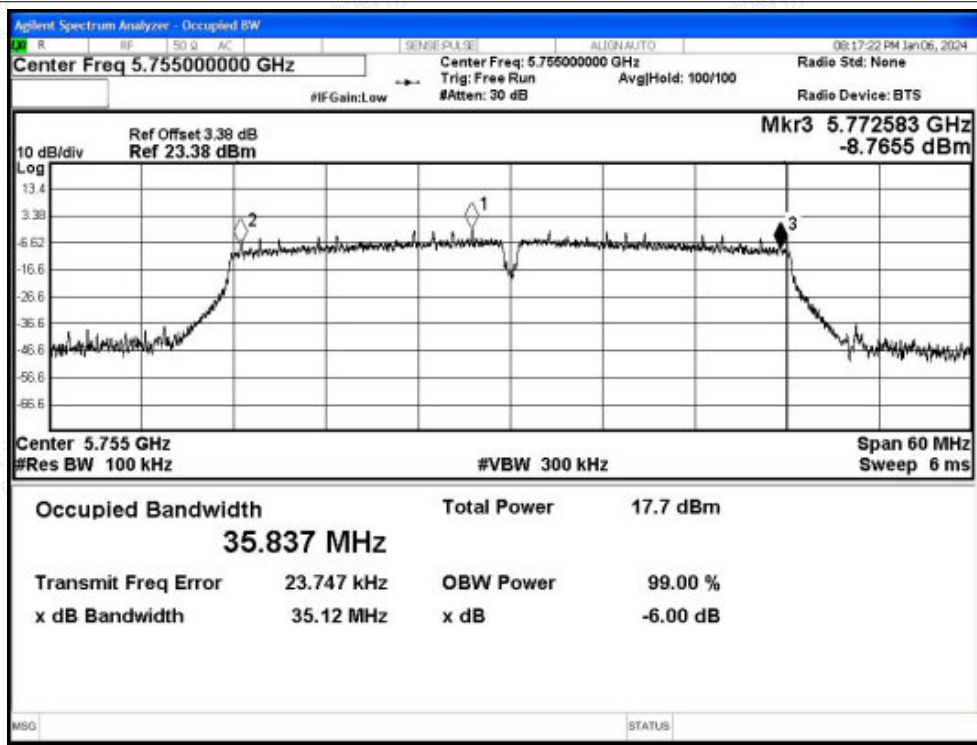




-6dB Bandwidth NVNT ac20 5825MHz Ant3



-6dB Bandwidth NVNT ac40 5755MHz Ant3

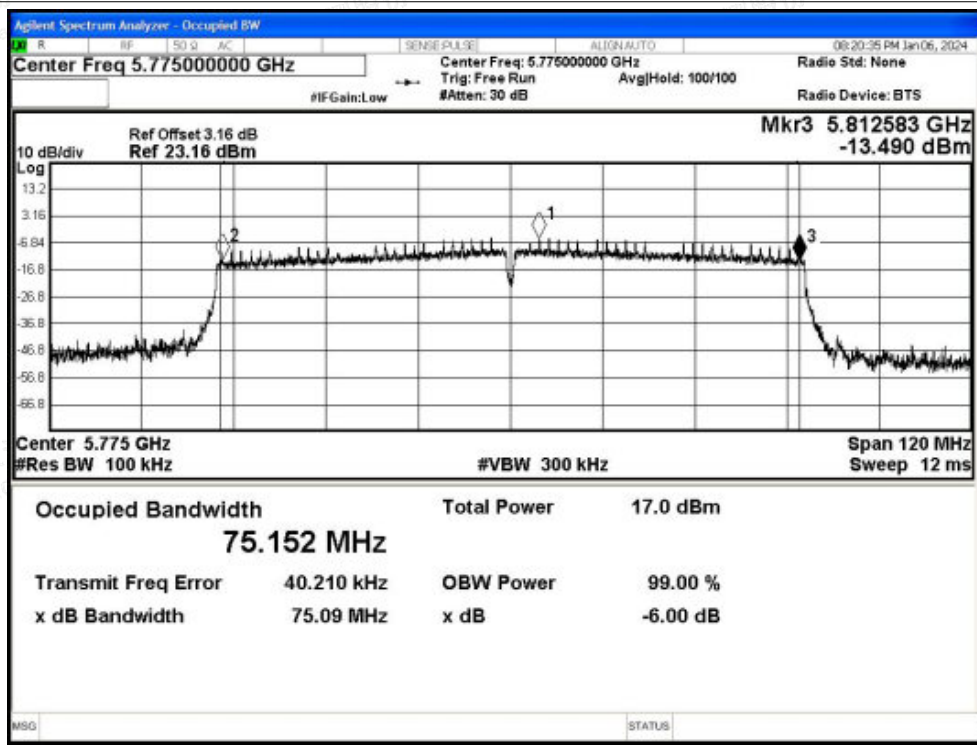




-6dB Bandwidth NVNT ac40 5795MHz Ant3



-6dB Bandwidth NVNT ac80 5775MHz Ant3





E.2 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	12.46	0.13	12.59	30	Pass
NVNT	a	5785	Ant1	12.28	0.13	12.41	30	Pass
NVNT	a	5825	Ant1	12.58	0.13	12.71	30	Pass
NVNT	n20	5745	Ant1	12.27	0.15	12.42	30	Pass
NVNT	n20	5785	Ant1	12.23	0.15	12.38	30	Pass
NVNT	n20	5825	Ant1	12.45	0.15	12.6	30	Pass
NVNT	n40	5755	Ant1	11.22	0.28	11.5	30	Pass
NVNT	n40	5795	Ant1	11.39	0.29	11.68	30	Pass
NVNT	ac20	5745	Ant1	12.33	0.14	12.47	30	Pass
NVNT	ac20	5785	Ant1	12.15	0.15	12.3	30	Pass
NVNT	ac20	5825	Ant1	12.36	0.14	12.5	30	Pass
NVNT	ac40	5755	Ant1	11.38	0.28	11.66	30	Pass
NVNT	ac40	5795	Ant1	11.48	0.28	11.76	30	Pass
NVNT	ac80	5775	Ant1	10.31	0.55	10.86	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant2	12.24	0.13	12.37	30	Pass
NVNT	a	5785	Ant2	12.45	0.13	12.58	30	Pass
NVNT	a	5825	Ant2	12.38	0.13	12.51	30	Pass
NVNT	n20	5745	Ant2	12.07	0.15	12.22	30	Pass
NVNT	n20	5785	Ant2	12.25	0.15	12.4	30	Pass
NVNT	n20	5825	Ant2	12.19	0.15	12.34	30	Pass
NVNT	n40	5755	Ant2	11.41	0.29	11.7	30	Pass
NVNT	n40	5795	Ant2	11.46	0.29	11.75	30	Pass
NVNT	ac20	5745	Ant2	12.08	0.14	12.22	30	Pass
NVNT	ac20	5785	Ant2	12.05	0.14	12.19	30	Pass
NVNT	ac20	5825	Ant2	12.14	0.14	12.28	30	Pass
NVNT	ac40	5755	Ant2	11.39	0.28	11.67	30	Pass
NVNT	ac40	5795	Ant2	11.48	0.28	11.76	30	Pass
NVNT	ac80	5775	Ant2	9.77	0.55	10.32	30	Pass



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Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant3	12.25	0.13	12.38	30	Pass
NVNT	a	5785	Ant3	12.38	0.13	12.51	30	Pass
NVNT	a	5825	Ant3	12.28	0.13	12.41	30	Pass
NVNT	n20	5745	Ant3	12.14	0.15	12.29	30	Pass
NVNT	n20	5785	Ant3	12.23	0.15	12.38	30	Pass
NVNT	n20	5825	Ant3	12.41	0.15	12.56	30	Pass
NVNT	n40	5755	Ant3	11.42	0.28	11.7	30	Pass
NVNT	n40	5795	Ant3	11.42	0.29	11.71	30	Pass
NVNT	ac20	5745	Ant3	12.14	0.14	12.28	30	Pass
NVNT	ac20	5785	Ant3	12.27	0.14	12.41	30	Pass
NVNT	ac20	5825	Ant3	12.36	0.14	12.5	30	Pass
NVNT	ac40	5755	Ant3	11.42	0.28	11.7	30	Pass
NVNT	ac40	5795	Ant3	11.41	0.28	11.69	30	Pass
NVNT	ac80	5775	Ant3	9.91	0.55	10.46	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant2	Ant3	Ant2+Ant3		
NVNT	n20	5745	12.22	12.29	15.27	27.66	Pass
NVNT	n20	5785	12.4	12.38	15.40	27.66	Pass
NVNT	n20	5825	12.34	12.56	15.46	27.66	Pass
NVNT	n40	5755	11.7	11.7	14.71	27.66	Pass
NVNT	n40	5795	11.75	11.71	14.74	27.66	Pass
NVNT	ac20	5745	12.22	12.28	15.26	27.66	Pass
NVNT	ac20	5785	12.19	12.41	15.31	27.66	Pass
NVNT	ac20	5825	12.28	12.5	15.40	27.66	Pass
NVNT	ac40	5755	11.67	11.7	14.70	27.66	Pass
NVNT	ac40	5795	11.76	11.69	14.74	27.66	Pass
NVNT	ac80	5775	10.32	10.46	13.40	27.66	Pass





E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-0.08	0.13	0.05	30	Pass
NVNT	a	5785	Ant1	-0.17	0.13	-0.04	30	Pass
NVNT	a	5825	Ant1	-0.04	0.13	0.09	30	Pass
NVNT	n20	5745	Ant1	-0.32	0.15	-0.17	30	Pass
NVNT	n20	5785	Ant1	-0.52	0.15	-0.37	30	Pass
NVNT	n20	5825	Ant1	-0.47	0.15	-0.32	30	Pass
NVNT	n40	5755	Ant1	-4.51	0.28	-4.23	30	Pass
NVNT	n40	5795	Ant1	-4.2	0.29	-3.91	30	Pass
NVNT	ac20	5745	Ant1	-0.38	0.14	-0.24	30	Pass
NVNT	ac20	5785	Ant1	-0.51	0.15	-0.36	30	Pass
NVNT	ac20	5825	Ant1	-0.26	0.14	-0.12	30	Pass
NVNT	ac40	5755	Ant1	-4.51	0.28	-4.23	30	Pass
NVNT	ac40	5795	Ant1	-3.78	0.28	-3.5	30	Pass
NVNT	ac80	5775	Ant1	-8.17	0.55	-7.62	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant2	-0.36	0.13	-0.23	30	Pass
NVNT	a	5785	Ant2	-0.2	0.13	-0.07	30	Pass
NVNT	a	5825	Ant2	0.11	0.13	0.24	30	Pass
NVNT	n20	5745	Ant2	-0.73	0.15	-0.58	30	Pass
NVNT	n20	5785	Ant2	-0.57	0.15	-0.42	30	Pass
NVNT	n20	5825	Ant2	-0.78	0.15	-0.63	30	Pass
NVNT	n40	5755	Ant2	-4.36	0.29	-4.07	30	Pass
NVNT	n40	5795	Ant2	-4.13	0.29	-3.84	30	Pass
NVNT	ac20	5745	Ant2	-0.59	0.14	-0.45	30	Pass
NVNT	ac20	5785	Ant2	-0.52	0.14	-0.38	30	Pass
NVNT	ac20	5825	Ant2	-0.59	0.14	-0.45	30	Pass
NVNT	ac40	5755	Ant2	-4.29	0.28	-4.01	30	Pass
NVNT	ac40	5795	Ant2	-4.13	0.28	-3.85	30	Pass
NVNT	ac80	5775	Ant2	-8.71	0.55	-8.16	30	Pass



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Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant3	-0.42	0.13	-0.29	30	Pass
NVNT	a	5785	Ant3	-0.1	0.13	0.03	30	Pass
NVNT	a	5825	Ant3	0.09	0.13	0.22	30	Pass
NVNT	n20	5745	Ant3	-0.37	0.15	-0.22	30	Pass
NVNT	n20	5785	Ant3	-0.51	0.15	-0.36	30	Pass
NVNT	n20	5825	Ant3	-0.43	0.15	-0.28	30	Pass
NVNT	n40	5755	Ant3	-4.49	0.28	-4.21	30	Pass
NVNT	n40	5795	Ant3	-4.43	0.29	-4.14	30	Pass
NVNT	ac20	5745	Ant3	-0.56	0.14	-0.42	30	Pass
NVNT	ac20	5785	Ant3	-0.36	0.14	-0.22	30	Pass
NVNT	ac20	5825	Ant3	-0.58	0.14	-0.44	30	Pass
NVNT	ac40	5755	Ant3	-4.28	0.28	-4	30	Pass
NVNT	ac40	5795	Ant3	-4.13	0.28	-3.85	30	Pass
NVNT	ac80	5775	Ant3	-8.6	0.55	-8.05	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant2	Ant3	Ant2+Ant3		
NVNT	n20	5745	-0.58	-0.22	2.61	27.66	Pass
NVNT	n20	5785	-0.42	-0.36	2.62	27.66	Pass
NVNT	n20	5825	-0.63	-0.28	2.56	27.66	Pass
NVNT	n40	5755	-4.07	-4.21	-1.13	27.66	Pass
NVNT	n40	5795	-3.84	-4.14	-0.98	27.66	Pass
NVNT	ac20	5745	-0.45	-0.42	2.58	27.66	Pass
NVNT	ac20	5785	-0.38	-0.22	2.71	27.66	Pass
NVNT	ac20	5825	-0.45	-0.44	2.57	27.66	Pass
NVNT	ac40	5755	-4.01	-4	-0.99	27.66	Pass
NVNT	ac40	5795	-3.85	-3.85	-0.84	27.66	Pass
NVNT	ac80	5775	-8.16	-8.05	-5.09	27.66	Pass

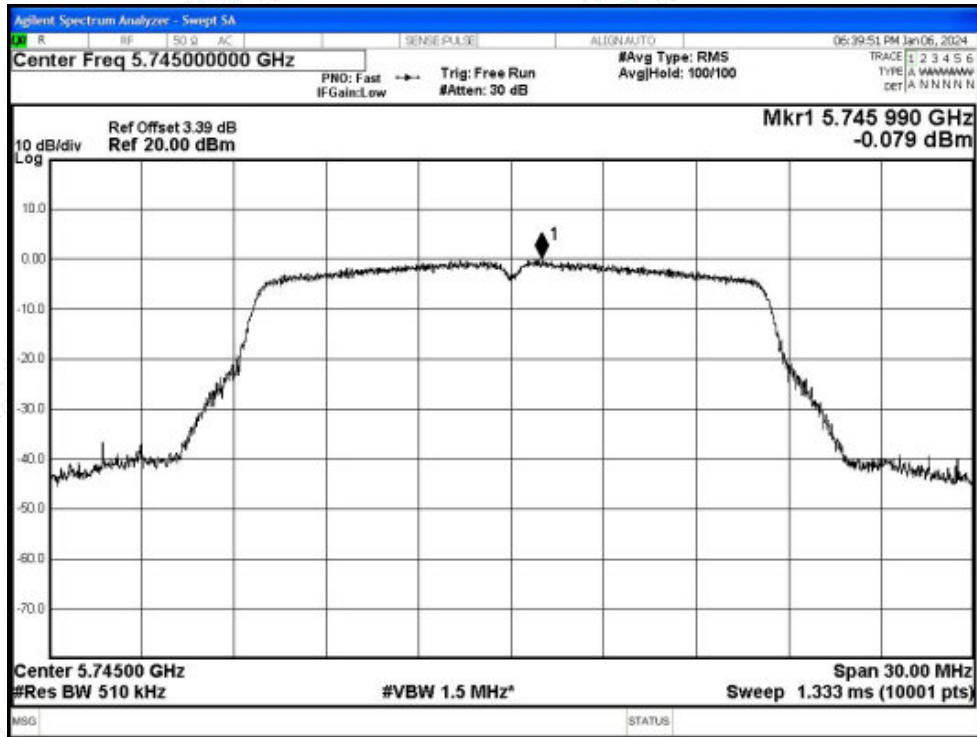


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

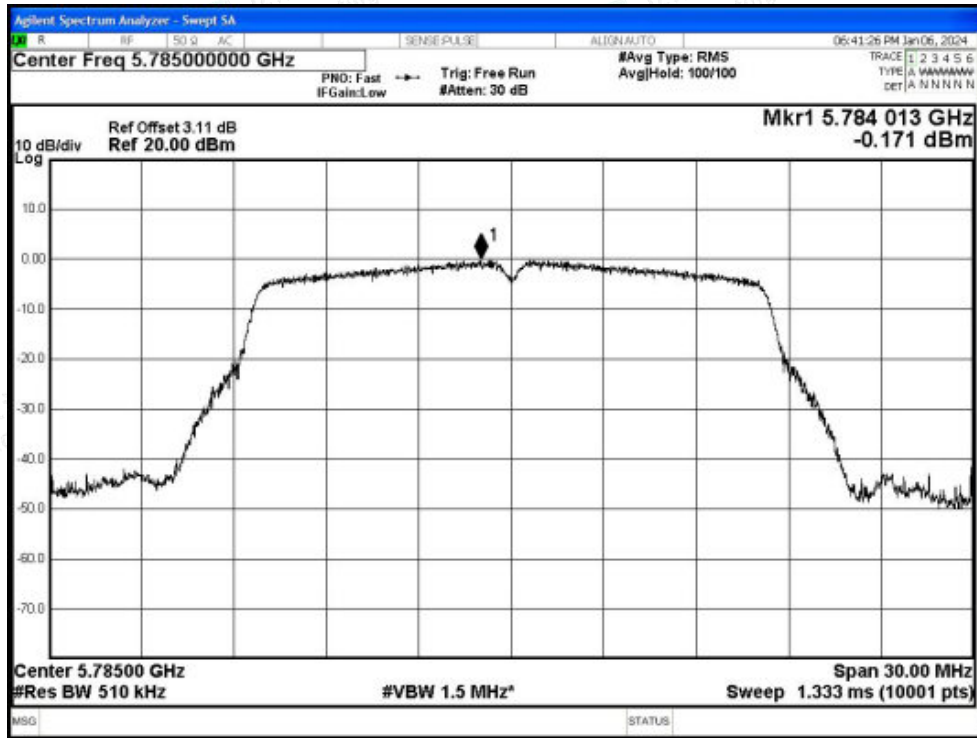


Test Graphs

PSD NVNT a 5745MHz Ant1

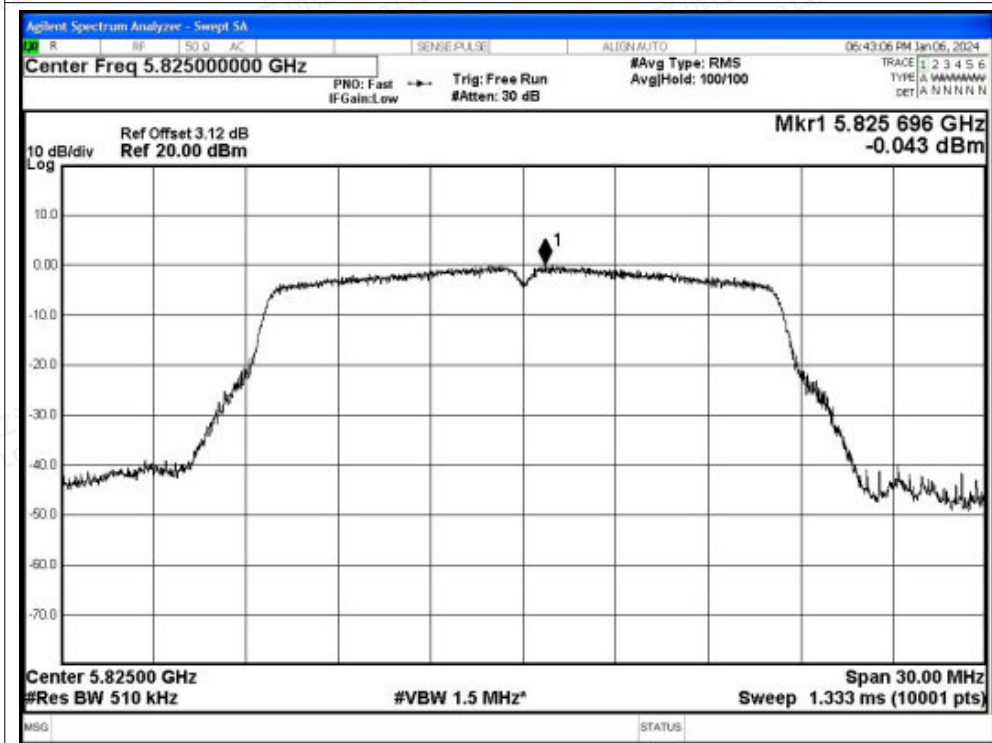


PSD NVNT a 5785MHz Ant1

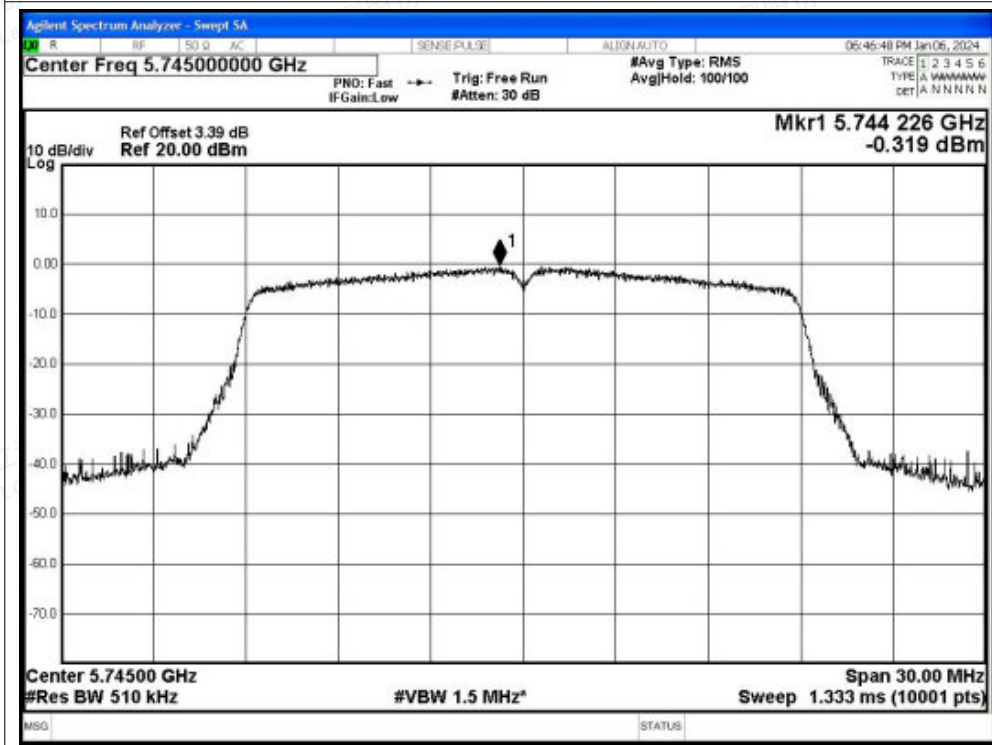




PSD NVNT a 5825MHz Ant1

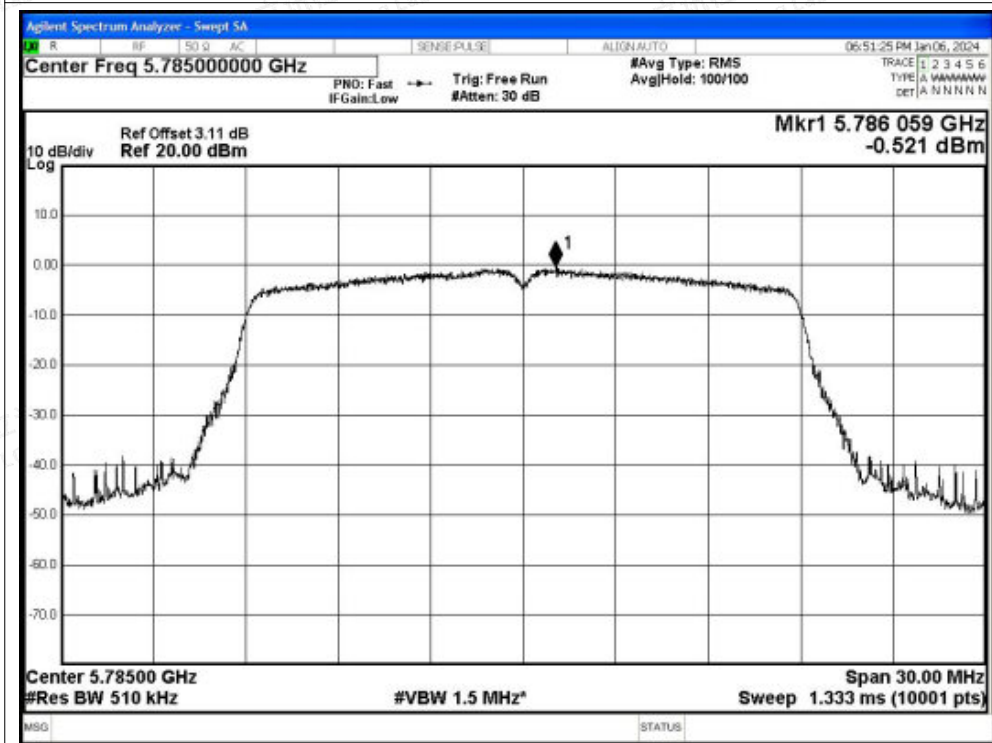


PSD NVNT n20 5745MHz Ant1

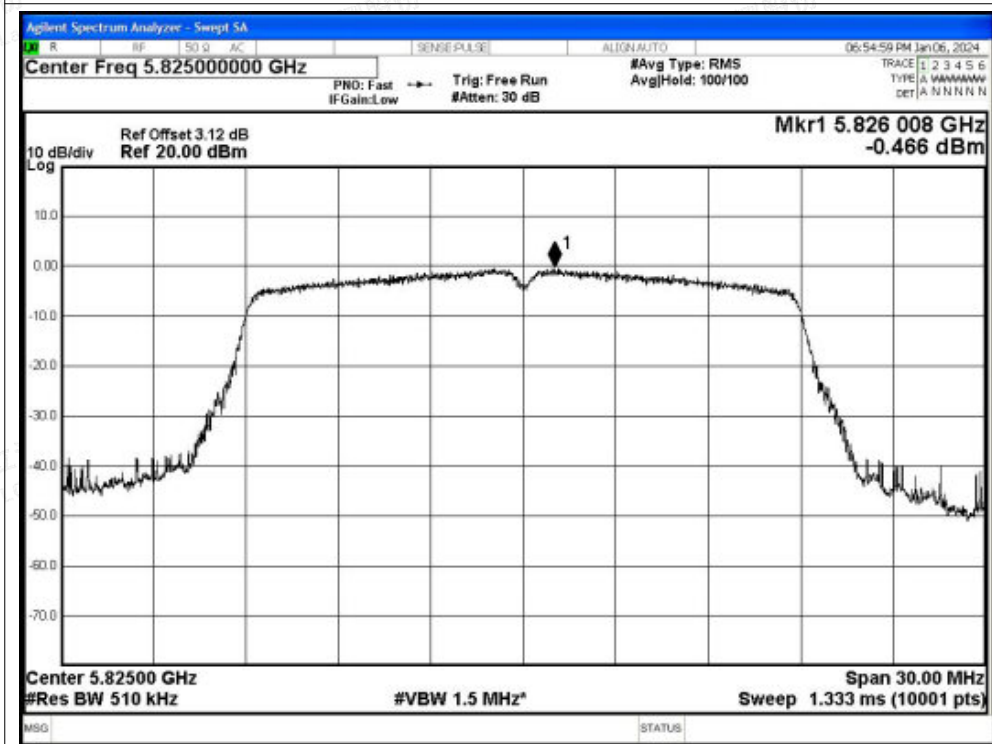




PSD NVNT n20 5785MHz Ant1

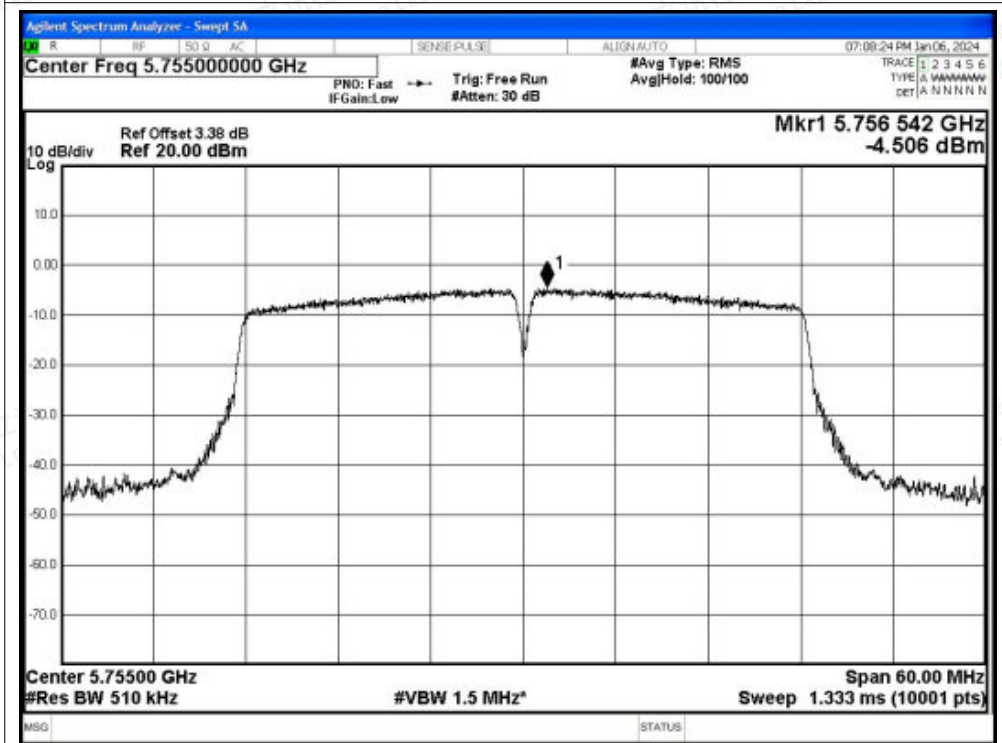


PSD NVNT n20 5825MHz Ant1

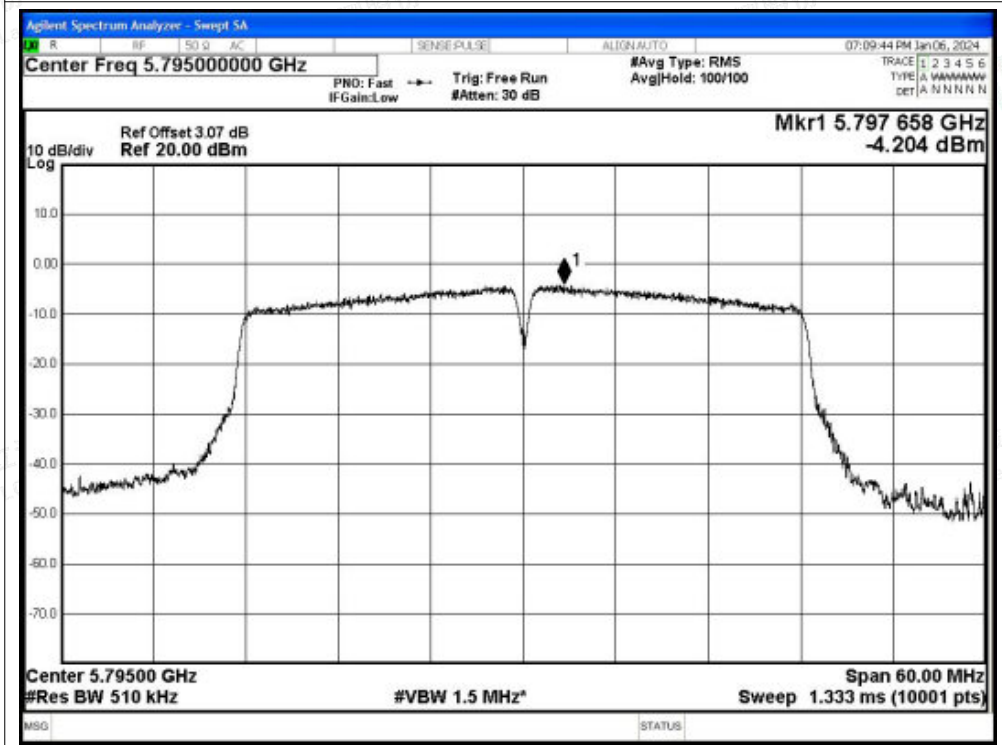




PSD NVNT n40 5755MHz Ant1

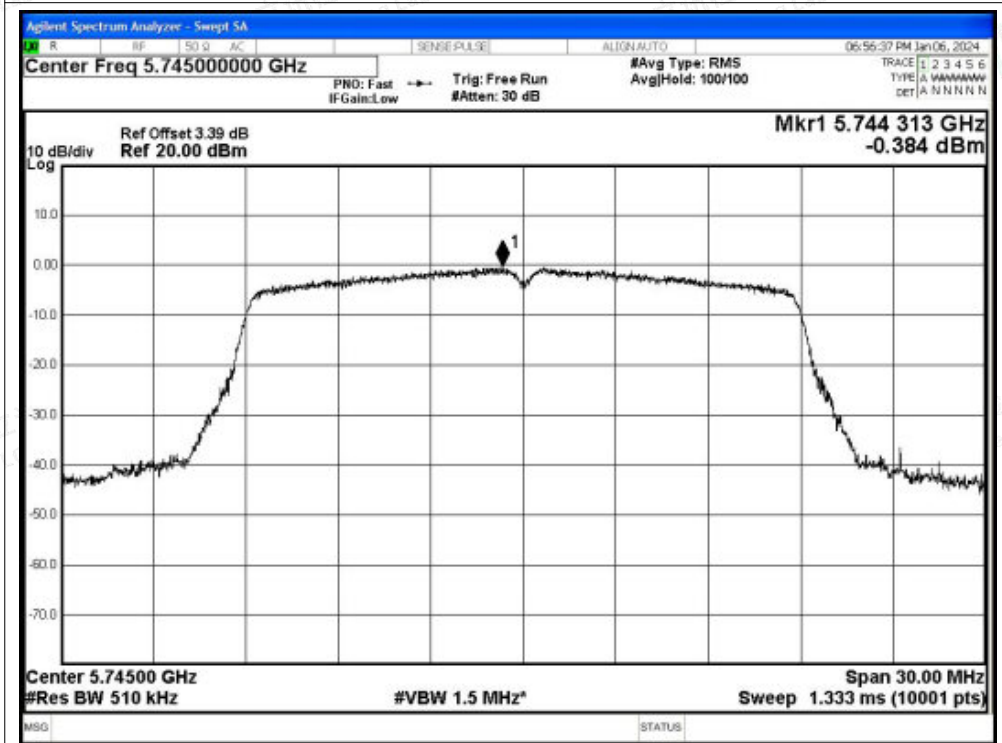


PSD NVNT n40 5795MHz Ant1

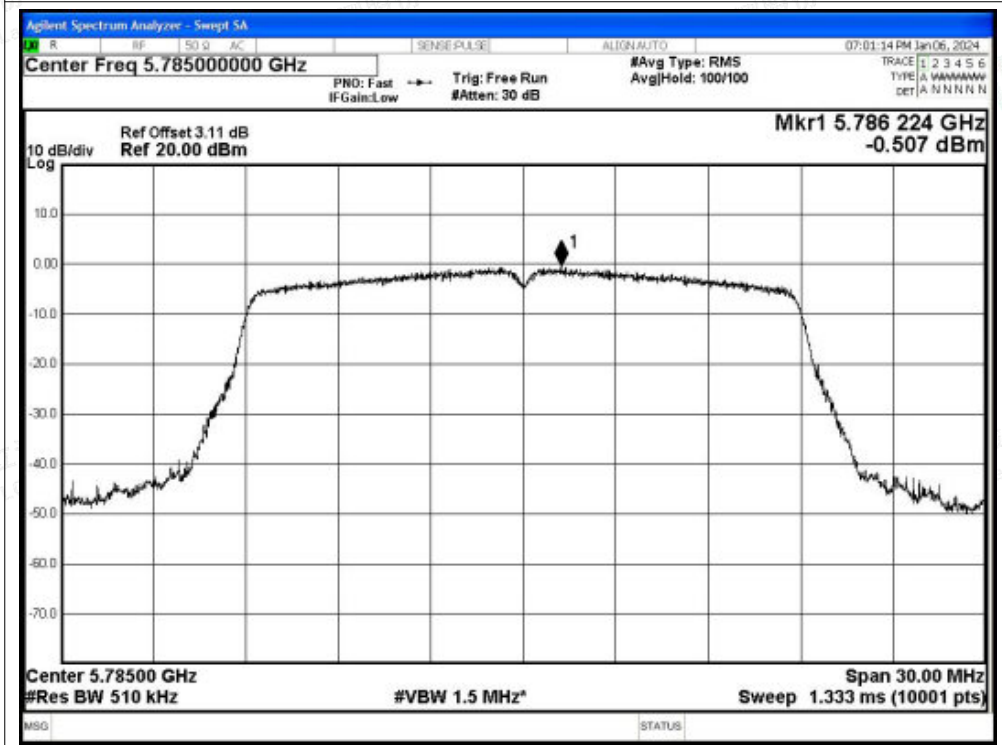




PSD NVNT ac20 5745MHz Ant1

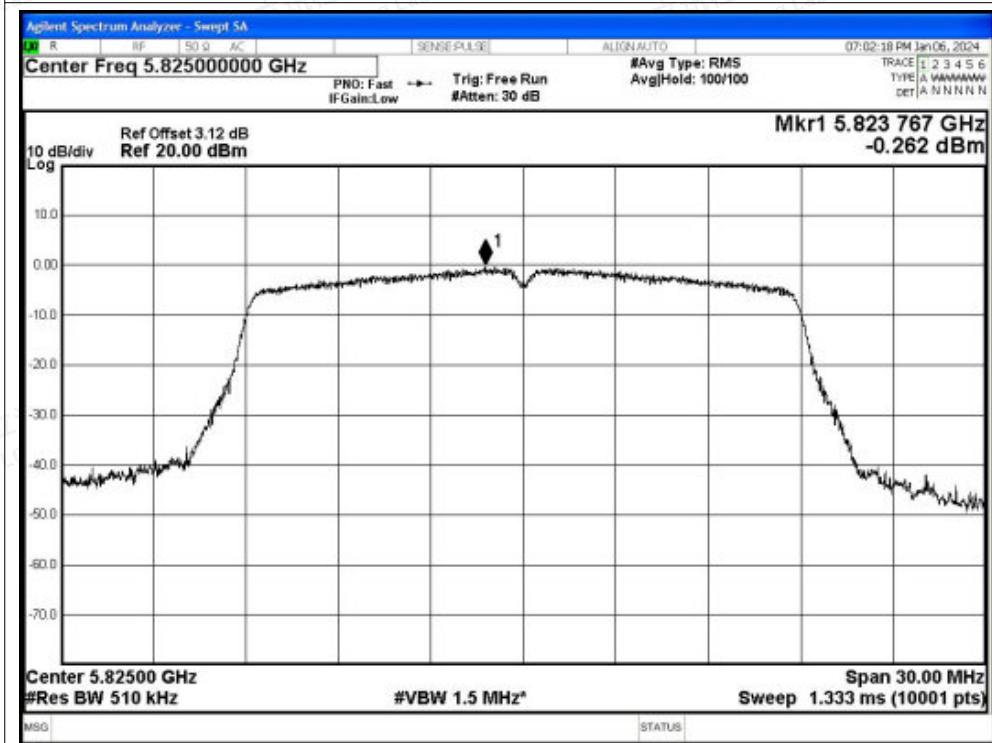


PSD NVNT ac20 5785MHz Ant1

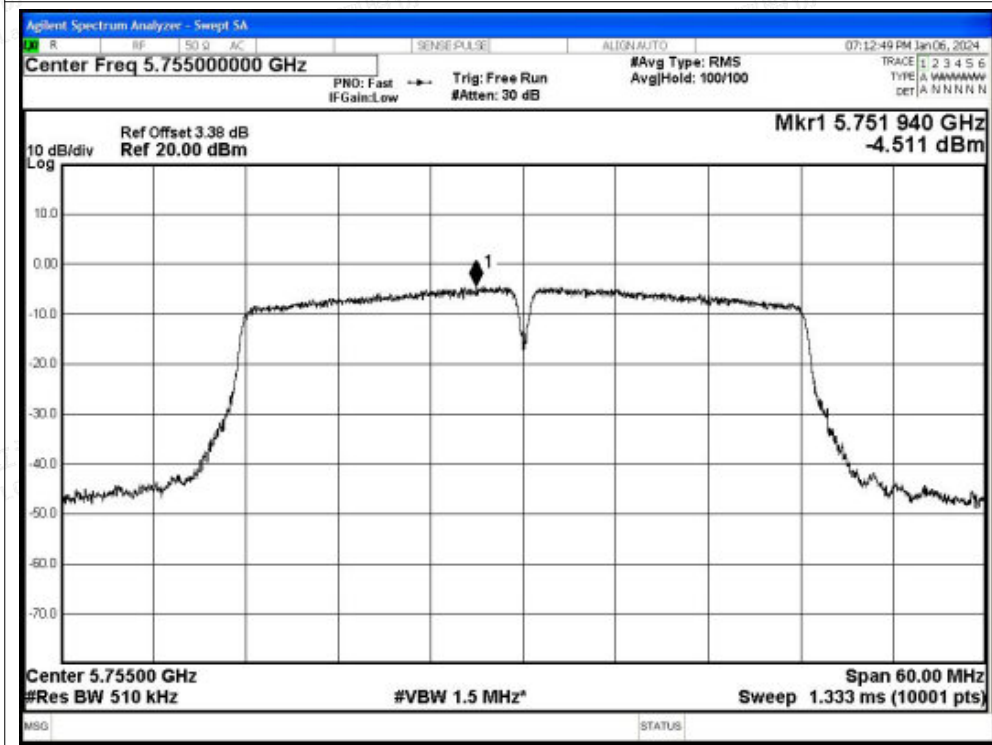




PSD NVNT ac20 5825MHz Ant1

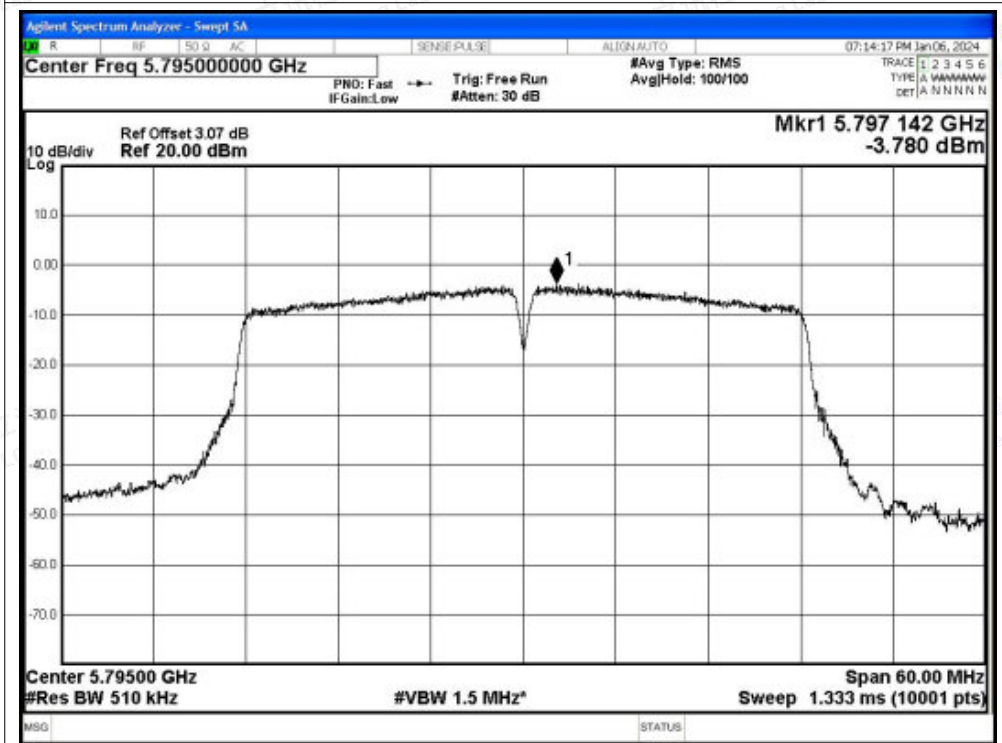


PSD NVNT ac40 5755MHz Ant1

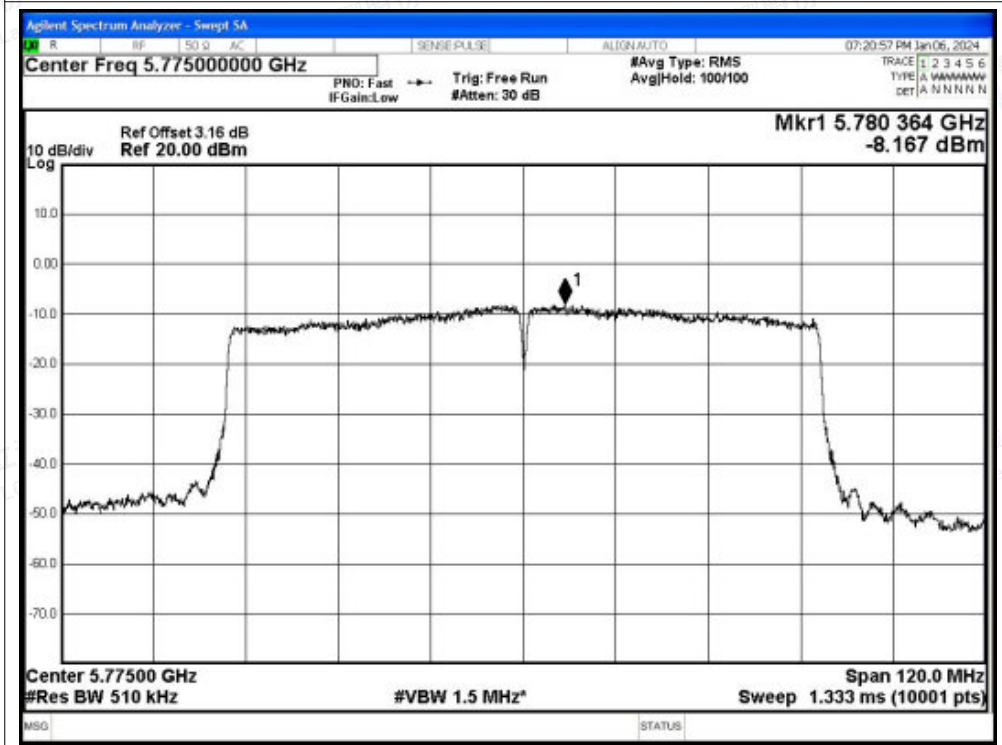




PSD NVNT ac40 5795MHz Ant1



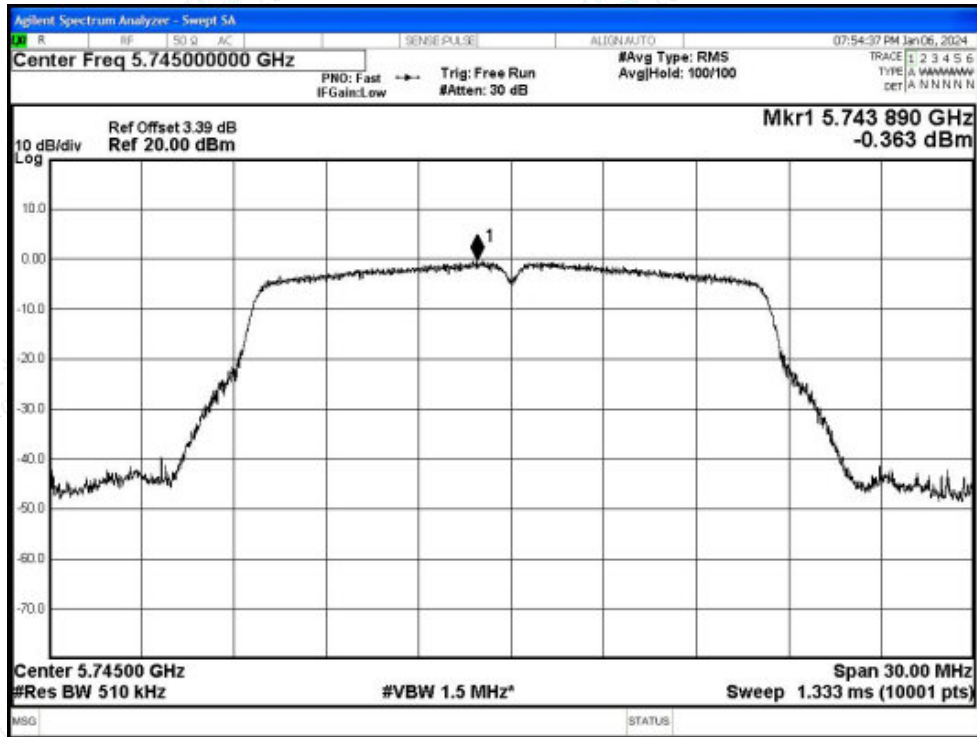
PSD NVNT ac80 5775MHz Ant1



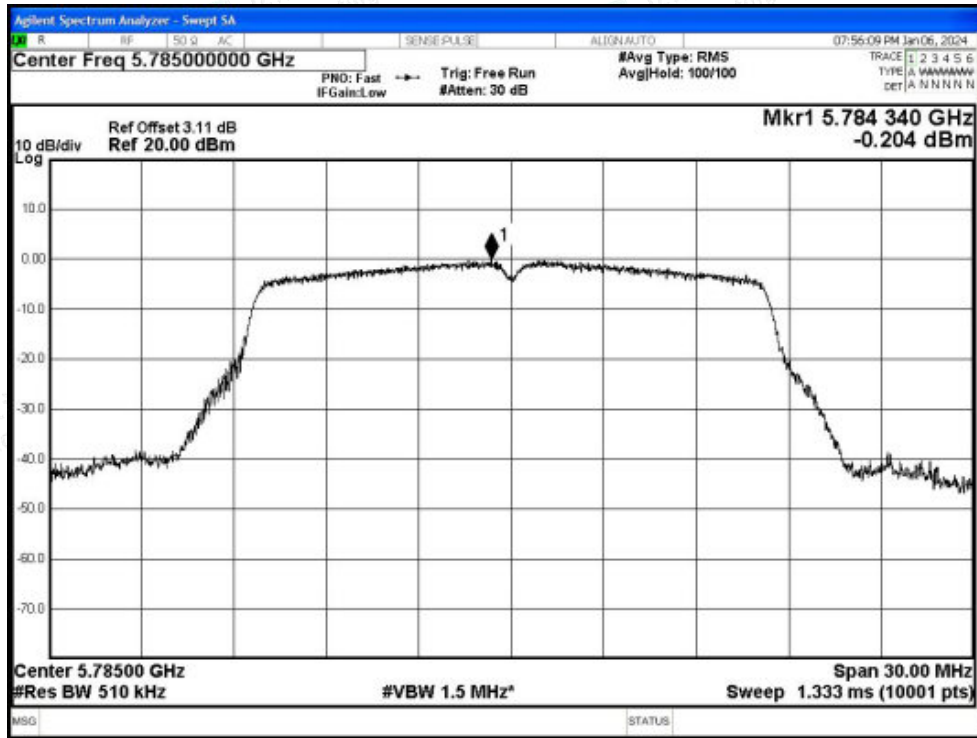


Test Graphs

PSD NVNT a 5745MHz Ant2

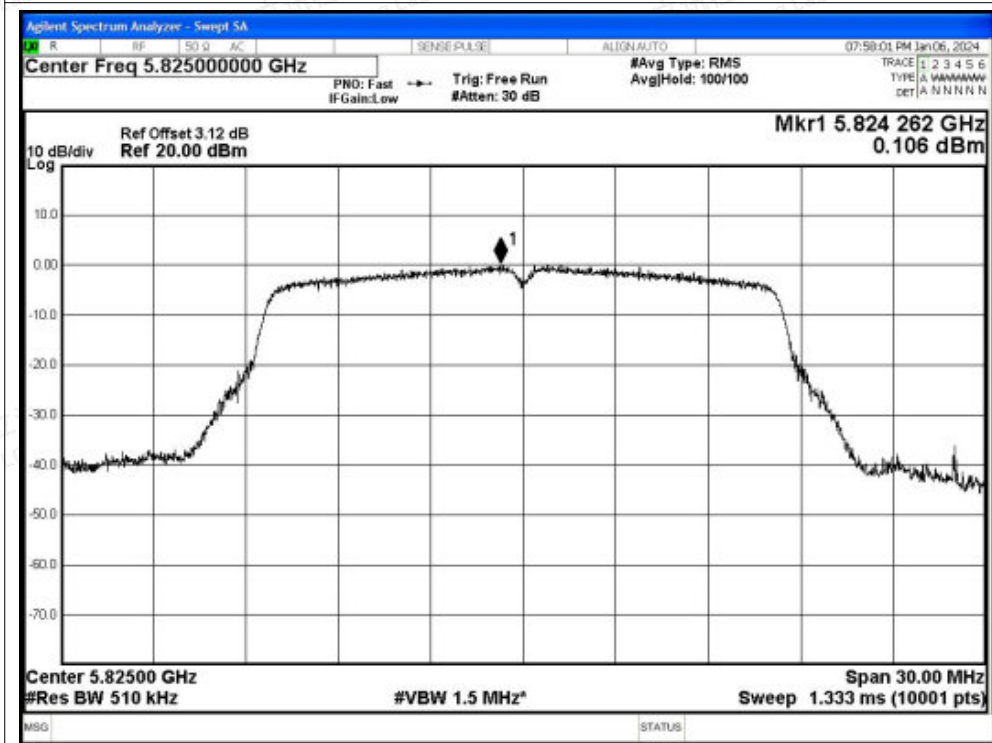


PSD NVNT a 5785MHz Ant2

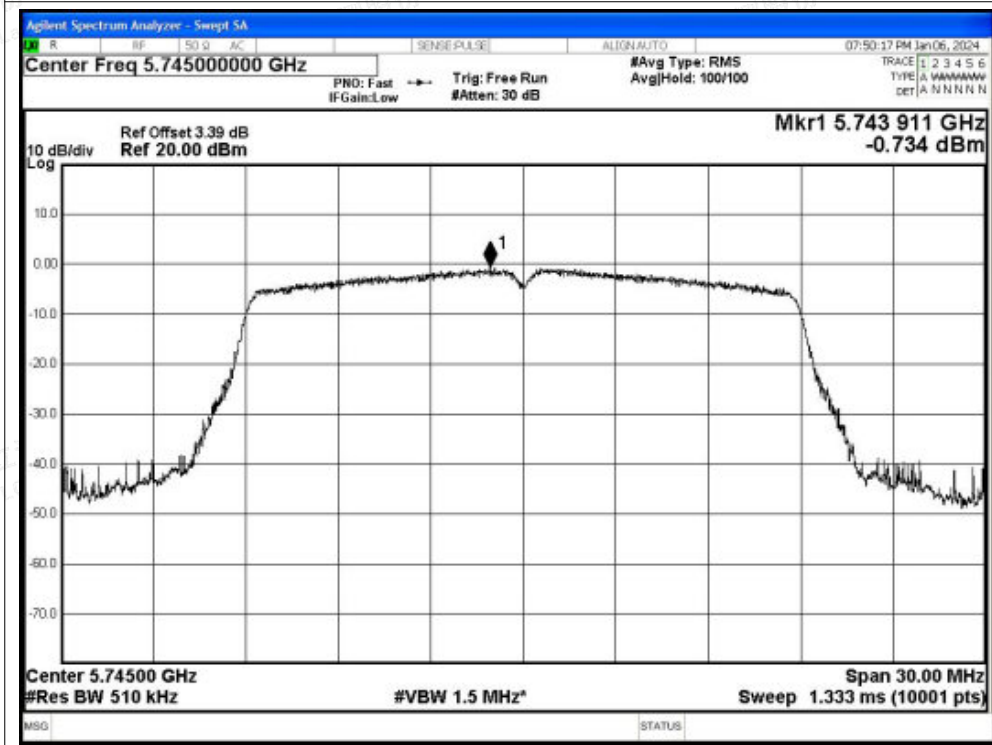




PSD NVNT a 5825MHz Ant2

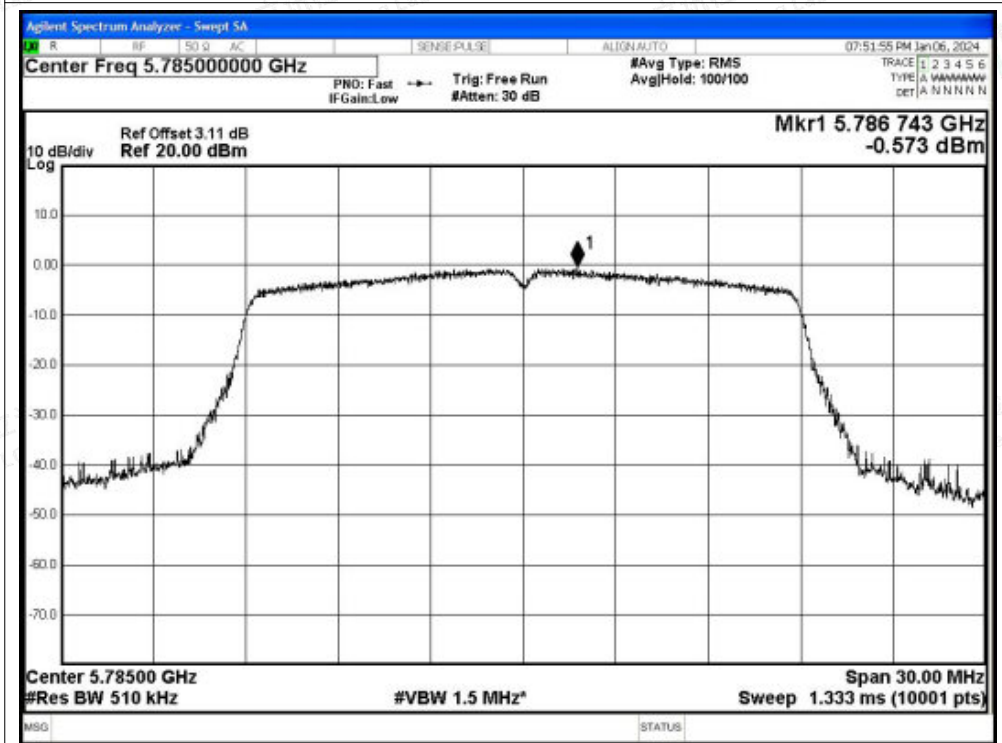


PSD NVNT n20 5745MHz Ant2

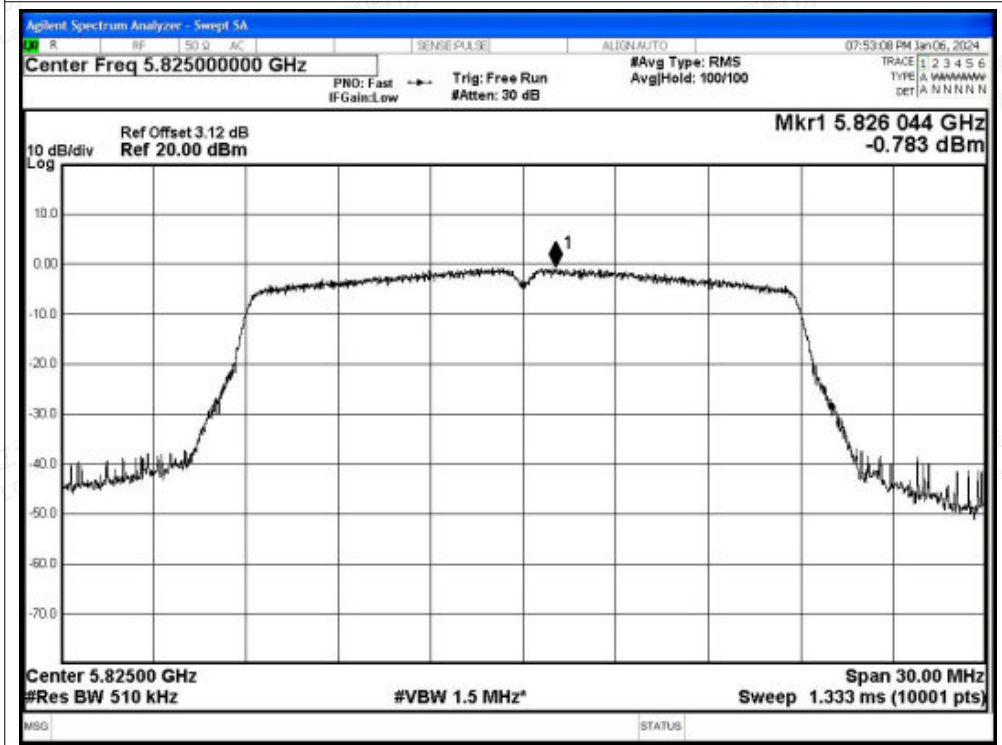




PSD NVNT n20 5785MHz Ant2

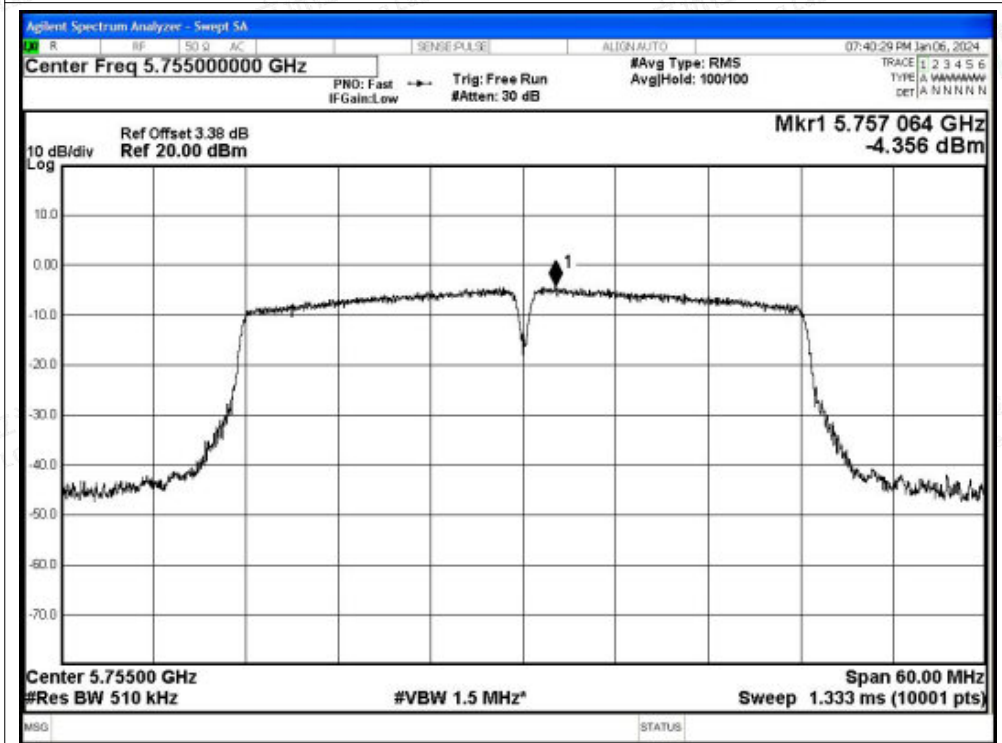


PSD NVNT n20 5825MHz Ant2

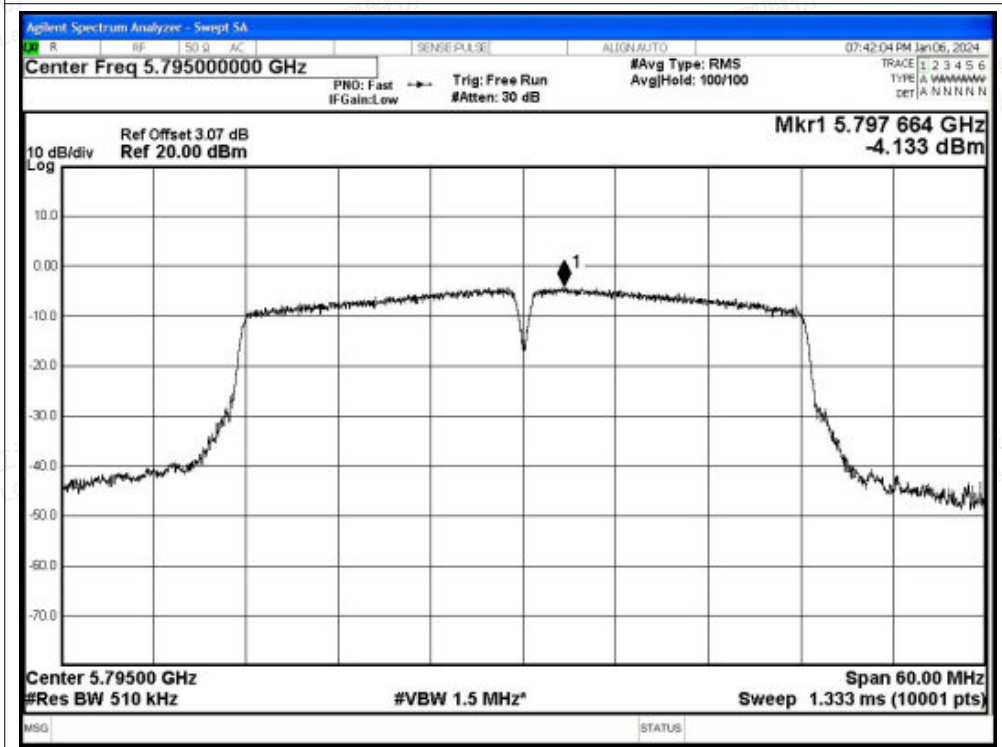




PSD NVNT n40 5755MHz Ant2

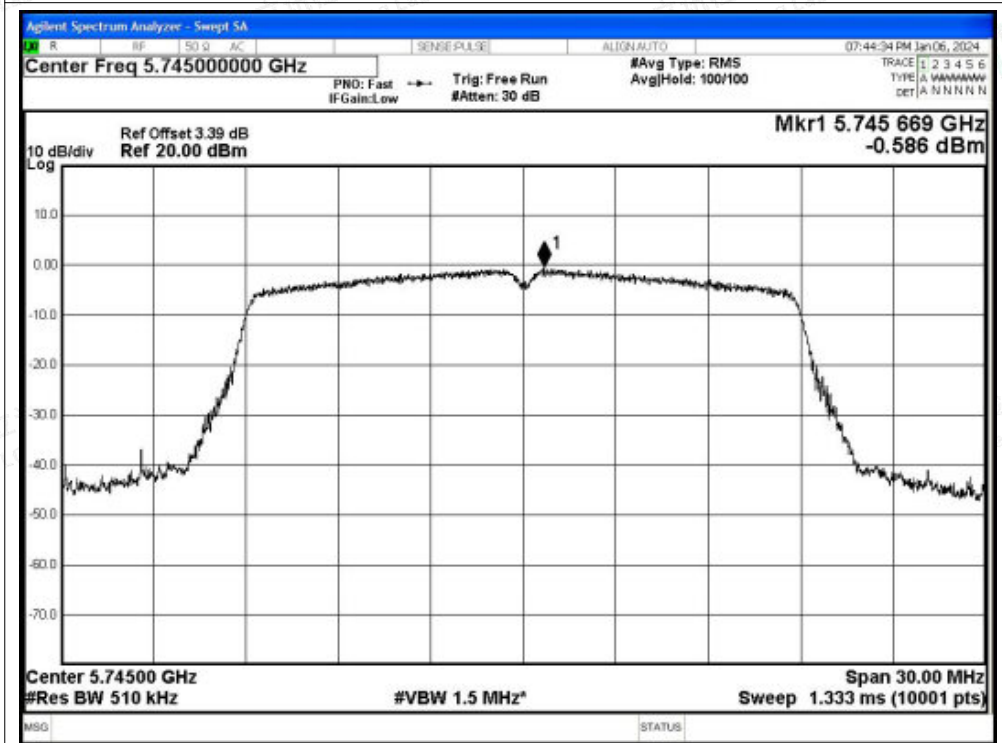


PSD NVNT n40 5795MHz Ant2

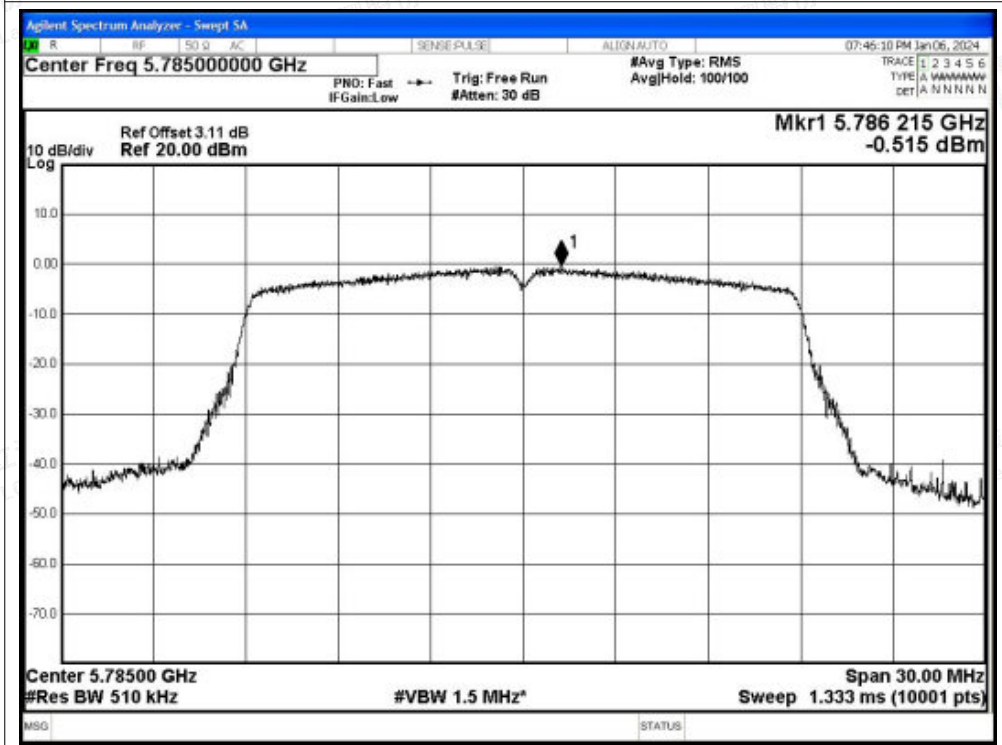




PSD NVNT ac20 5745MHz Ant2

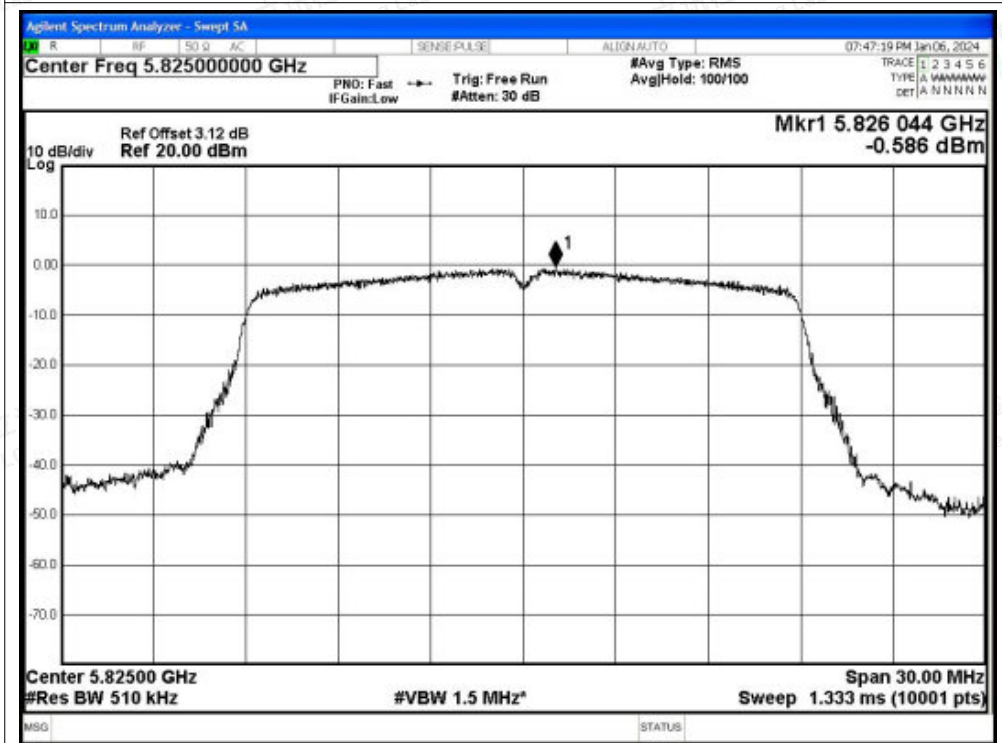


PSD NVNT ac20 5785MHz Ant2

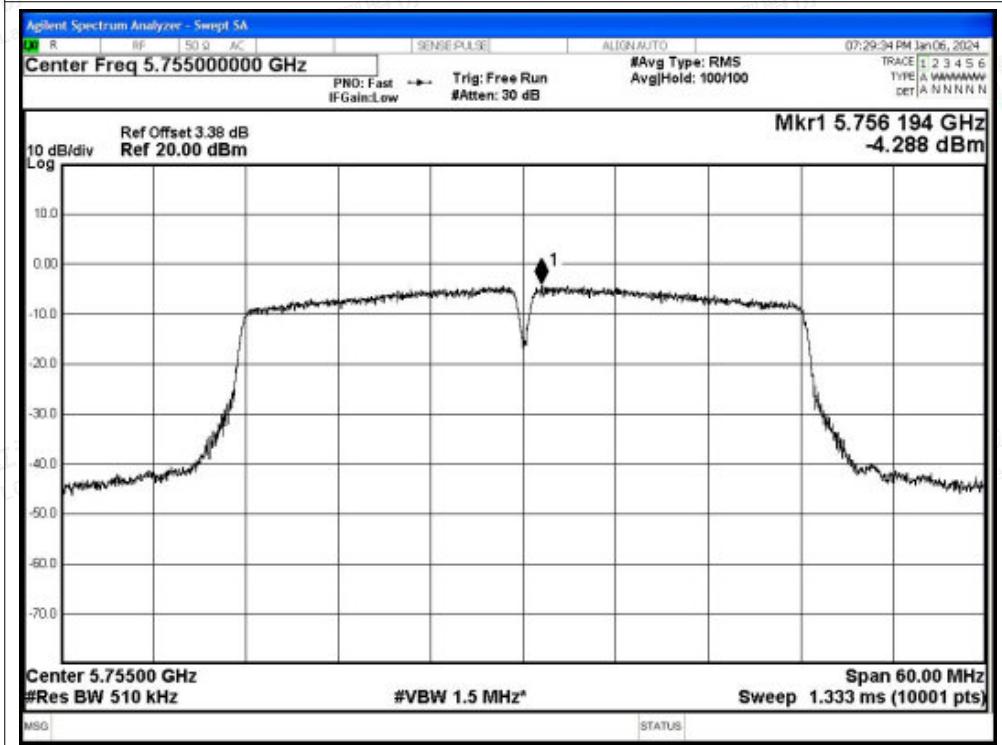




PSD NVNT ac20 5825MHz Ant2

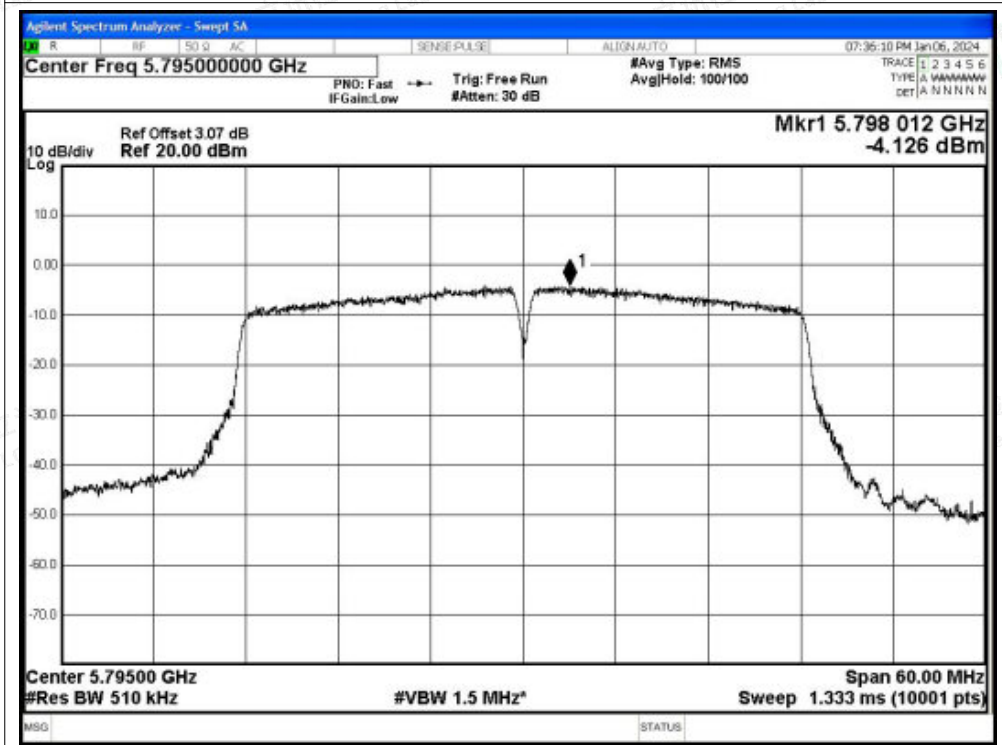


PSD NVNT ac40 5755MHz Ant2

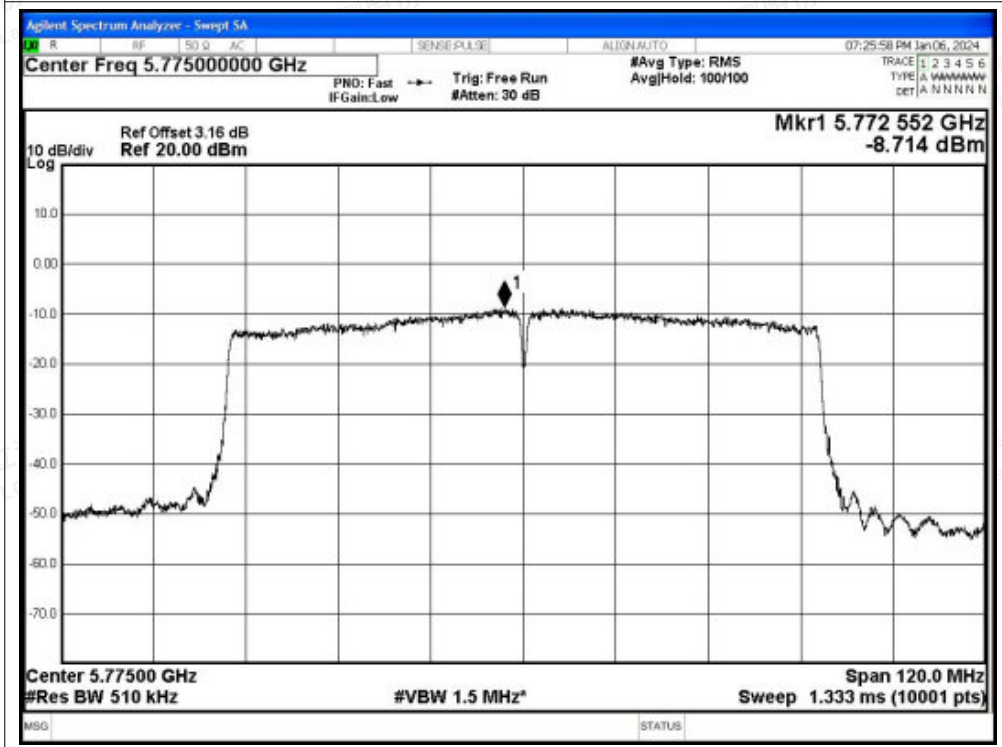




PSD NVNT ac40 5795MHz Ant2



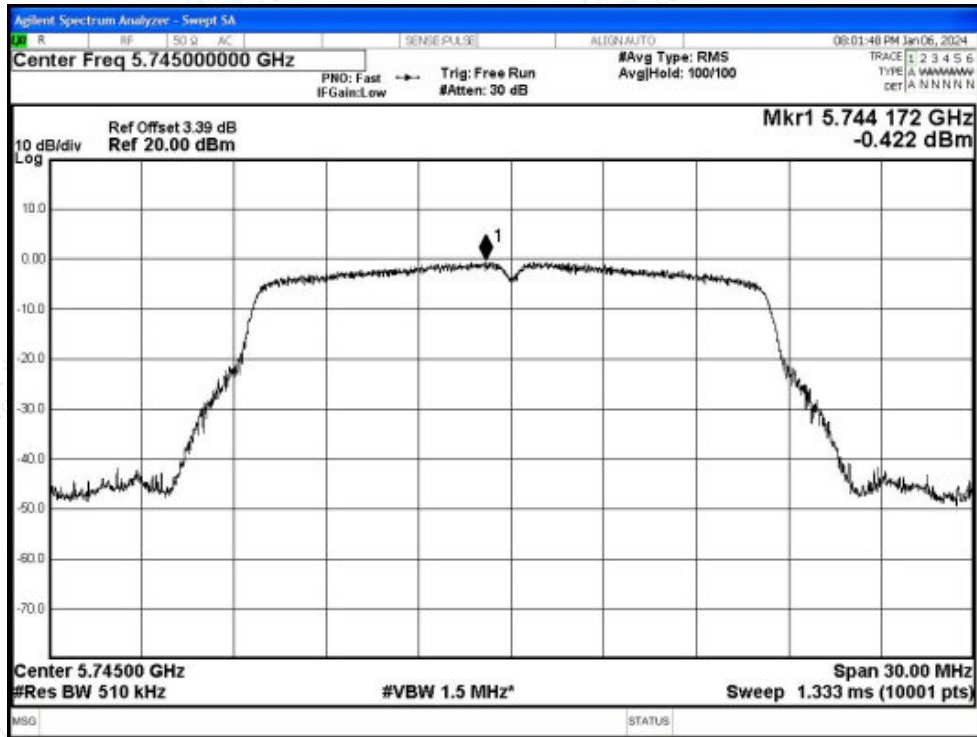
PSD NVNT ac80 5775MHz Ant2



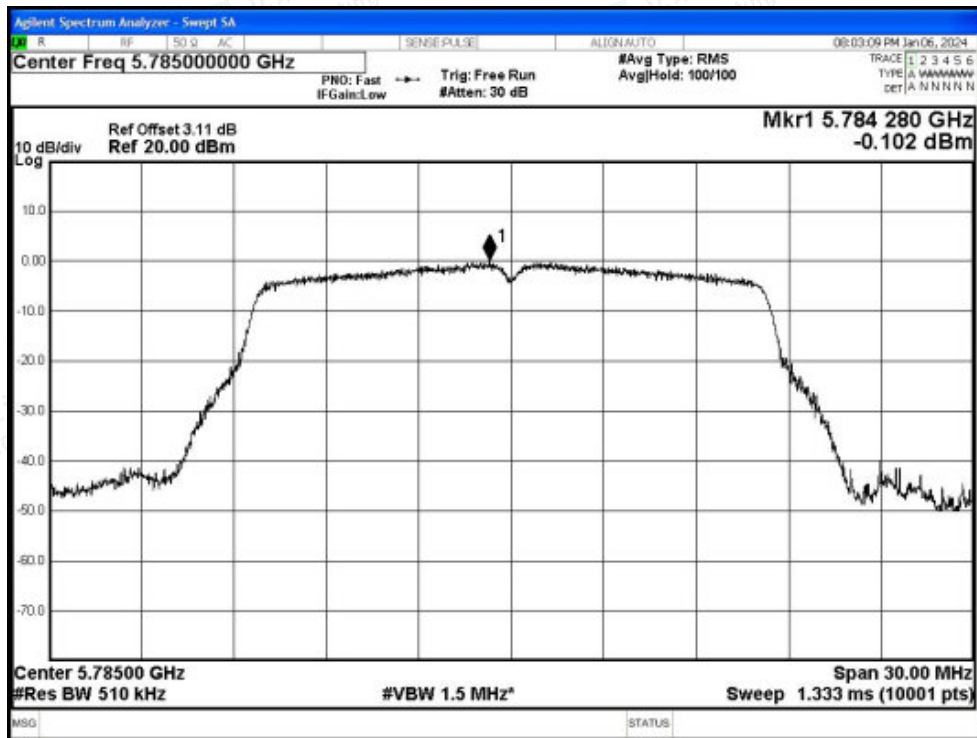


Test Graphs

PSD NVNT a 5745MHz Ant3

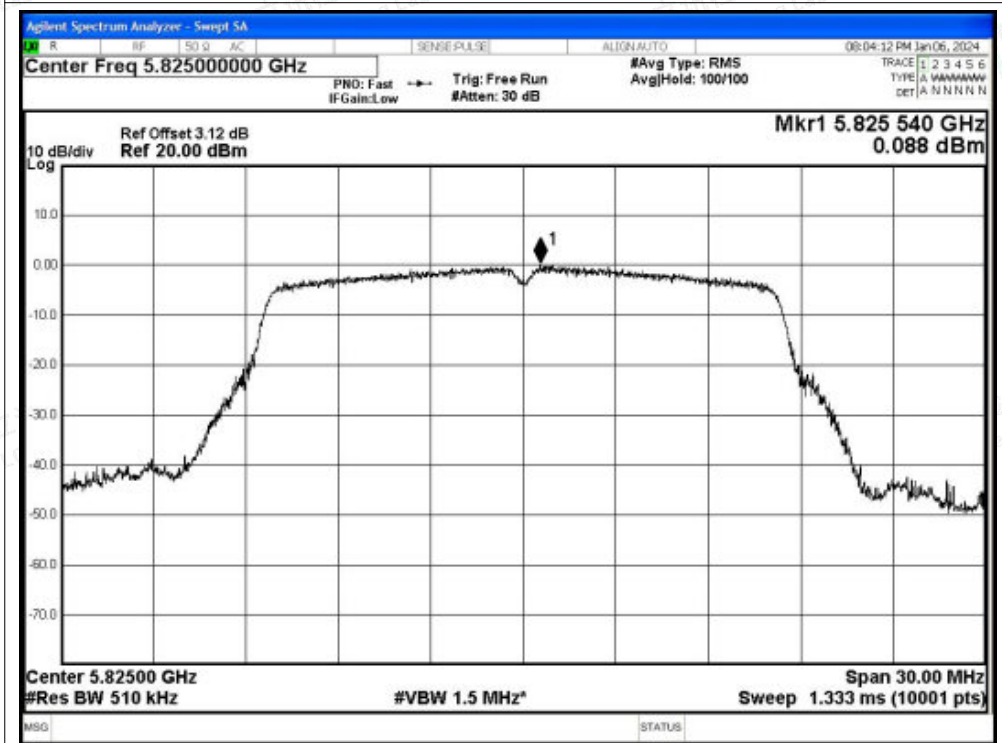


PSD NVNT a 5785MHz Ant3

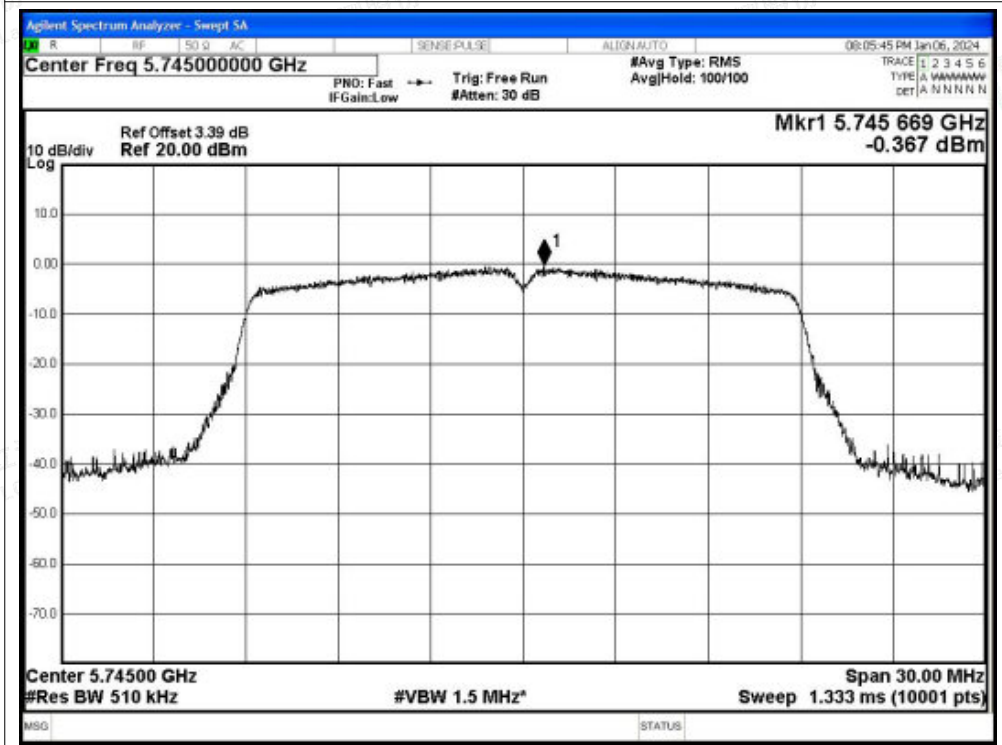




PSD NVNT a 5825MHz Ant3

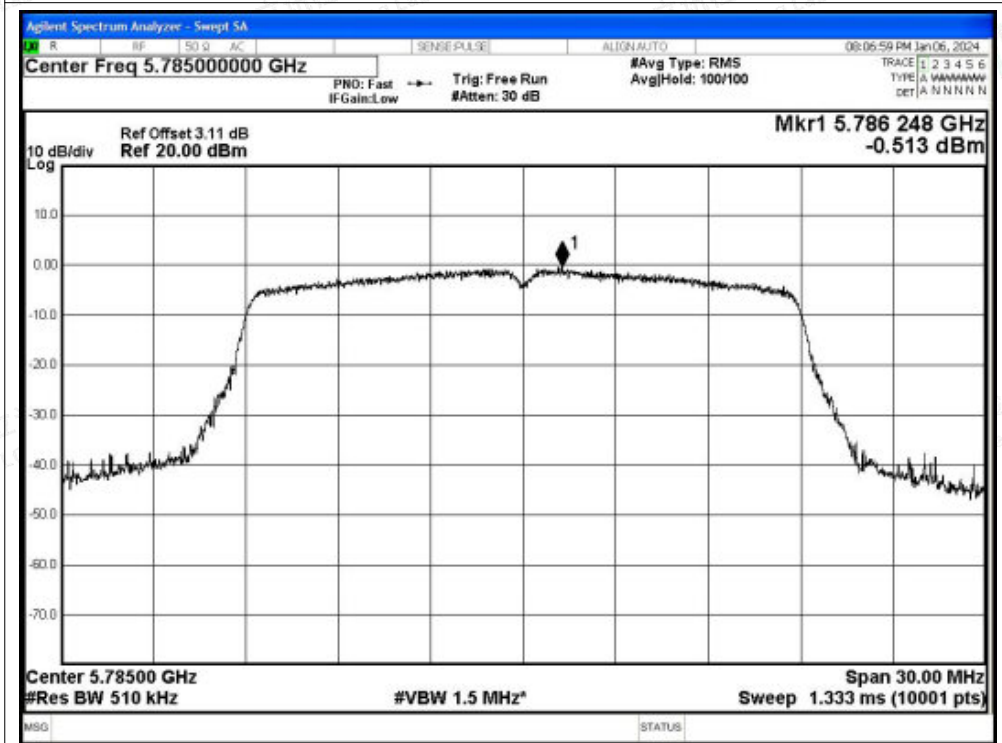


PSD NVNT n20 5745MHz Ant3

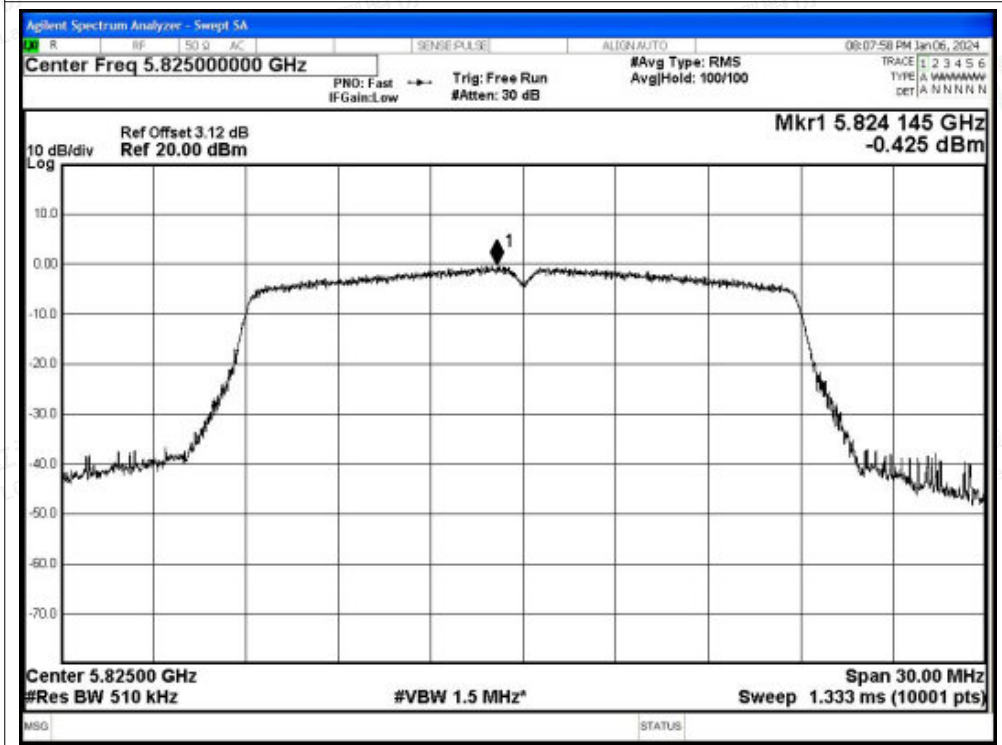




PSD NVNT n20 5785MHz Ant3

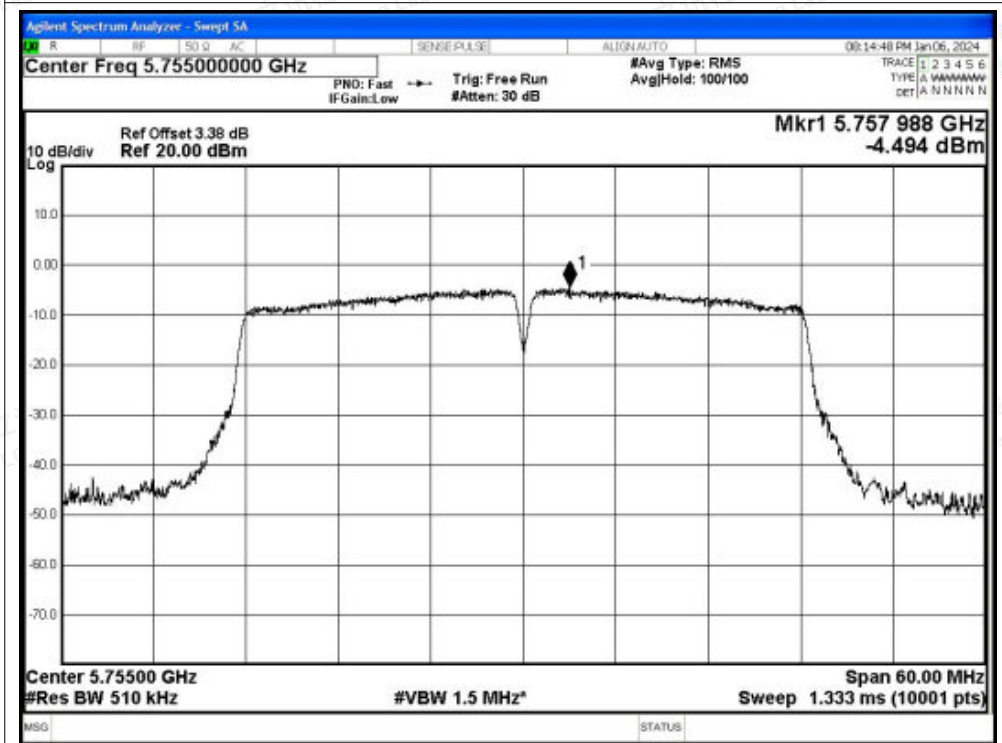


PSD NVNT n20 5825MHz Ant3

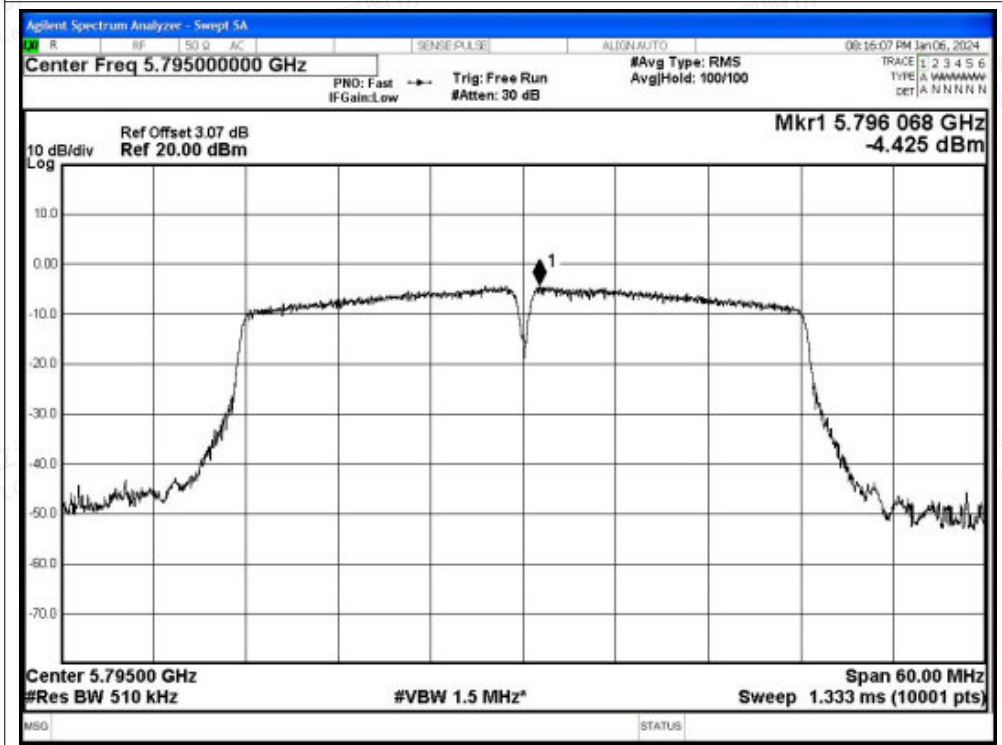




PSD NVNT n40 5755MHz Ant3

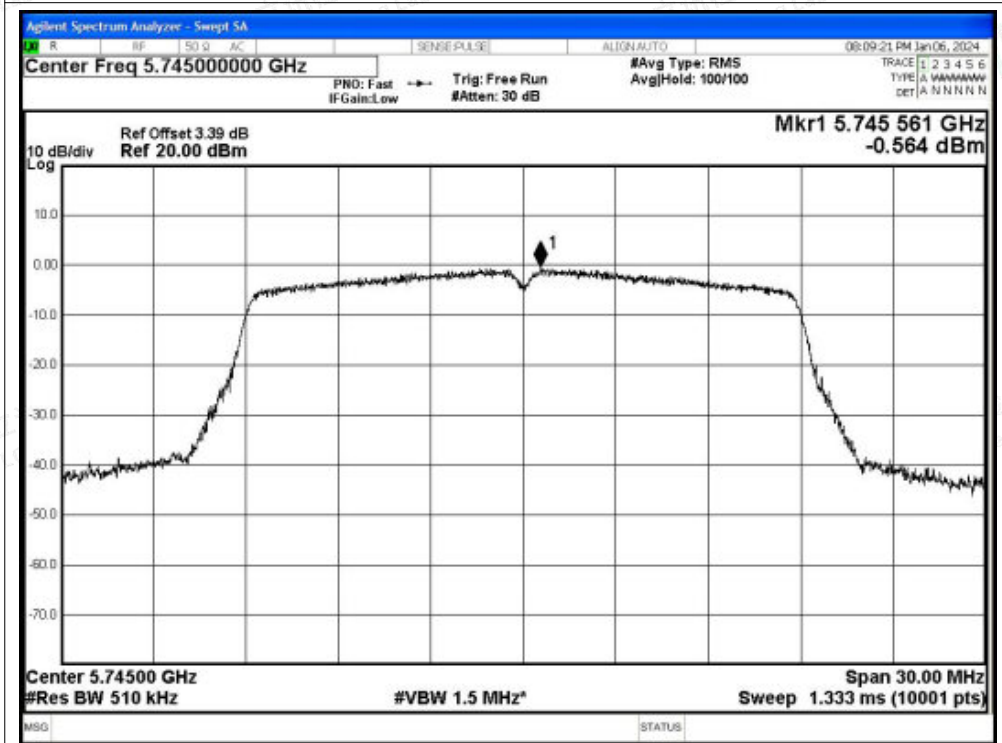


PSD NVNT n40 5795MHz Ant3

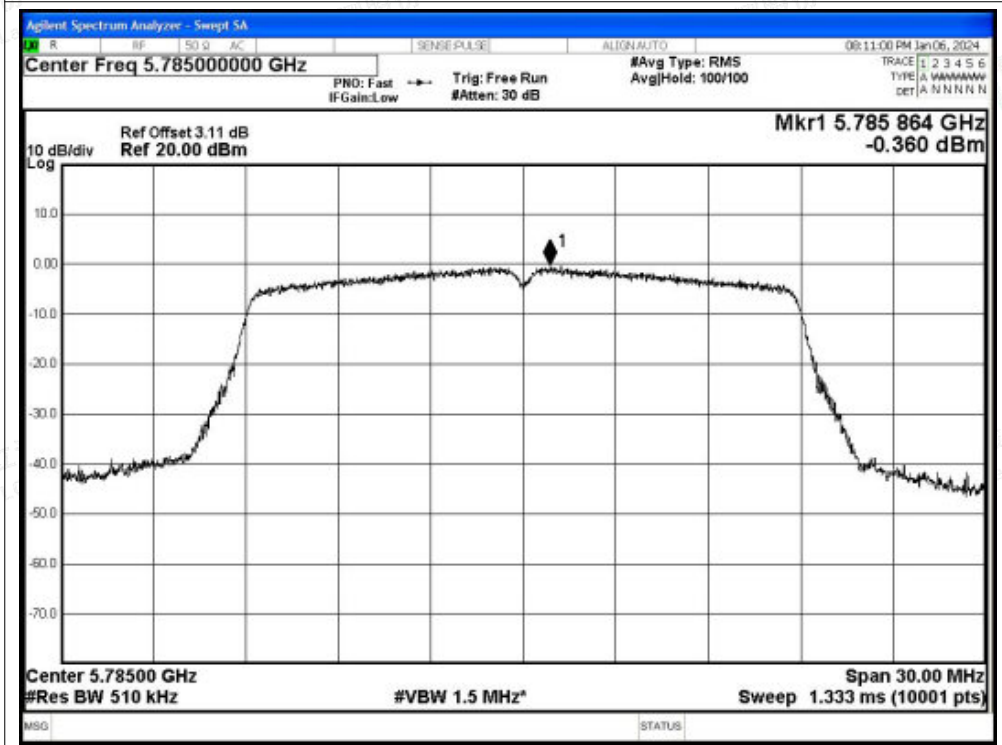




PSD NVNT ac20 5745MHz Ant3

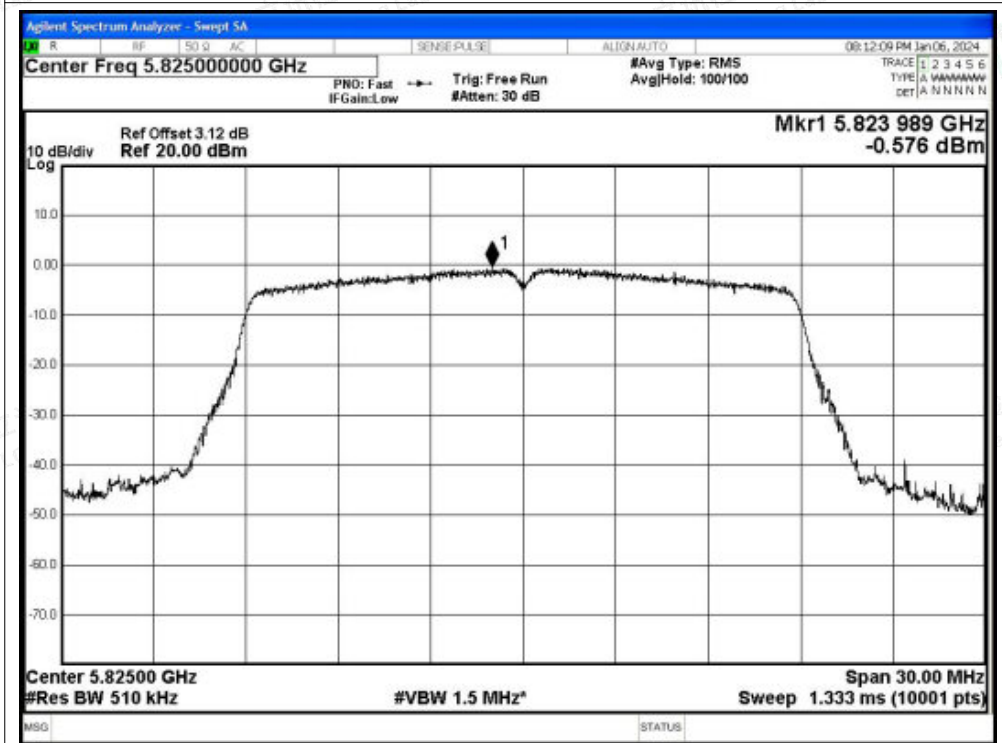


PSD NVNT ac20 5785MHz Ant3

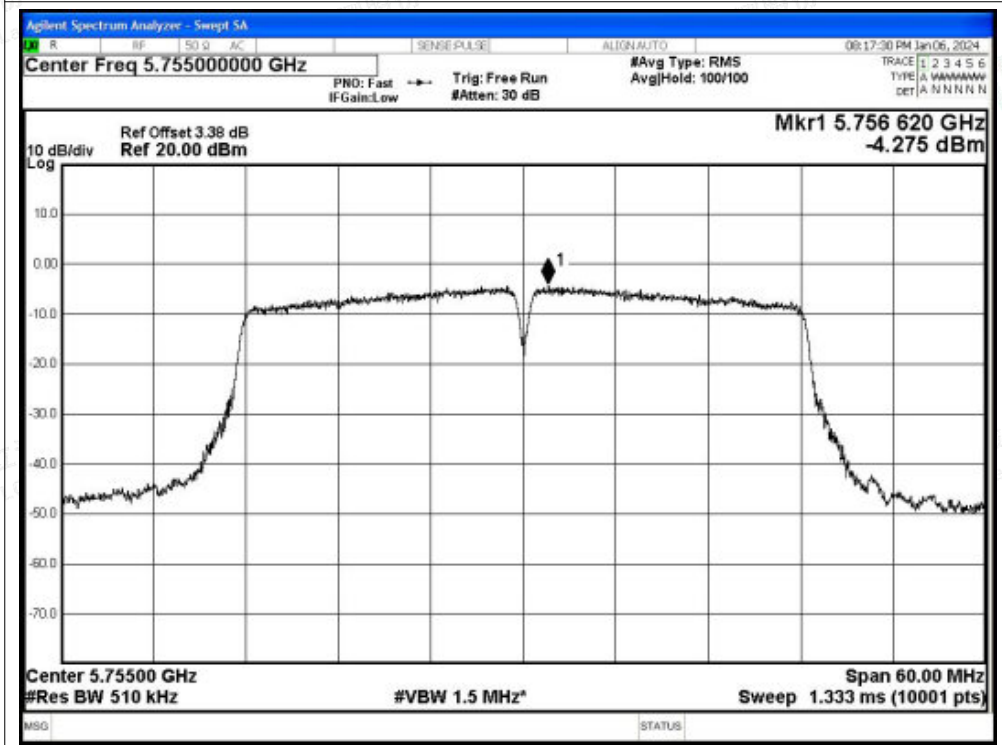




PSD NVNT ac20 5825MHz Ant3

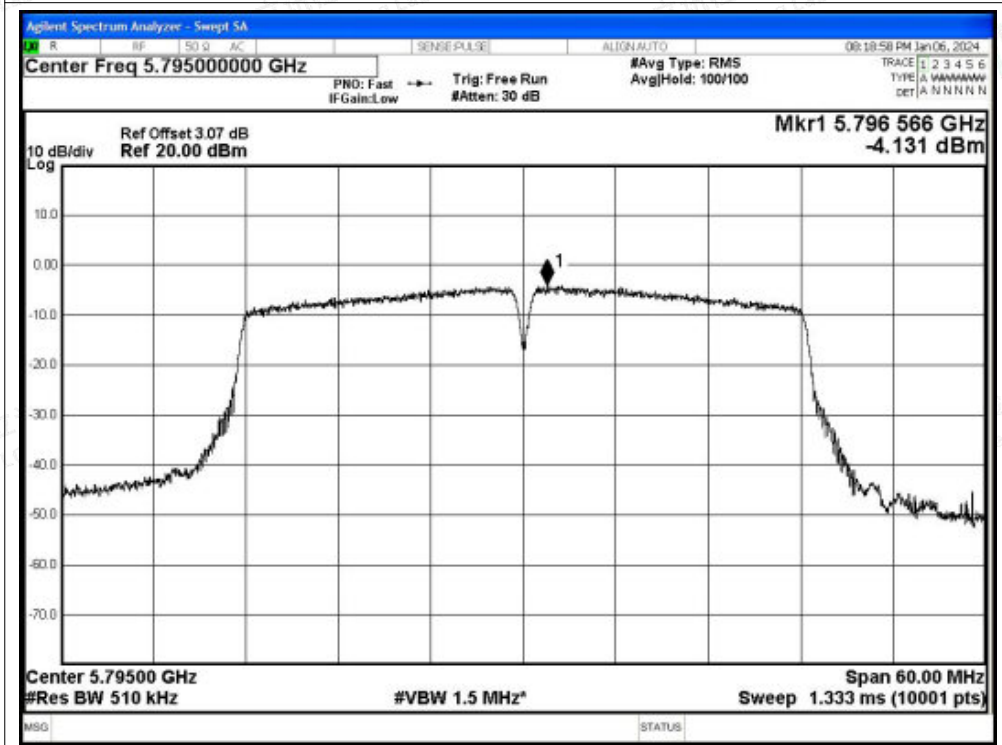


PSD NVNT ac40 5755MHz Ant3





PSD NVNT ac40 5795MHz Ant3



PSD NVNT ac80 5775MHz Ant3

