

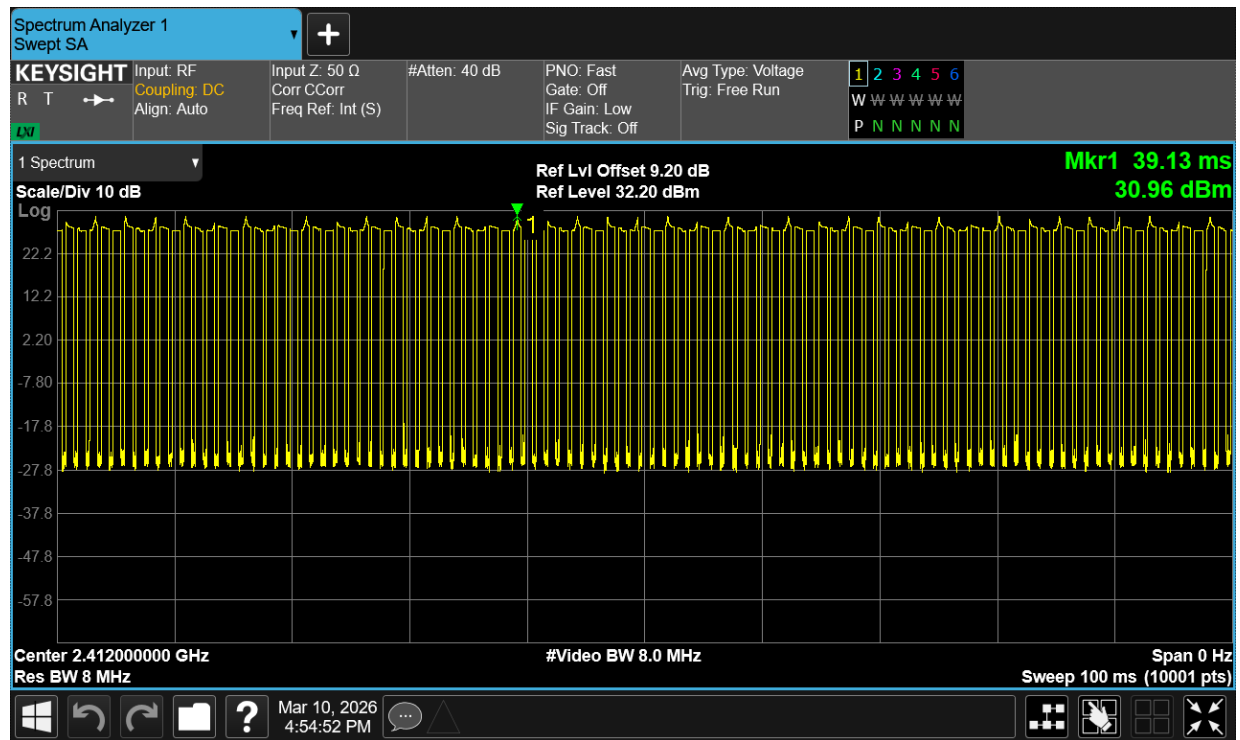
Test Data

Duty Cycle

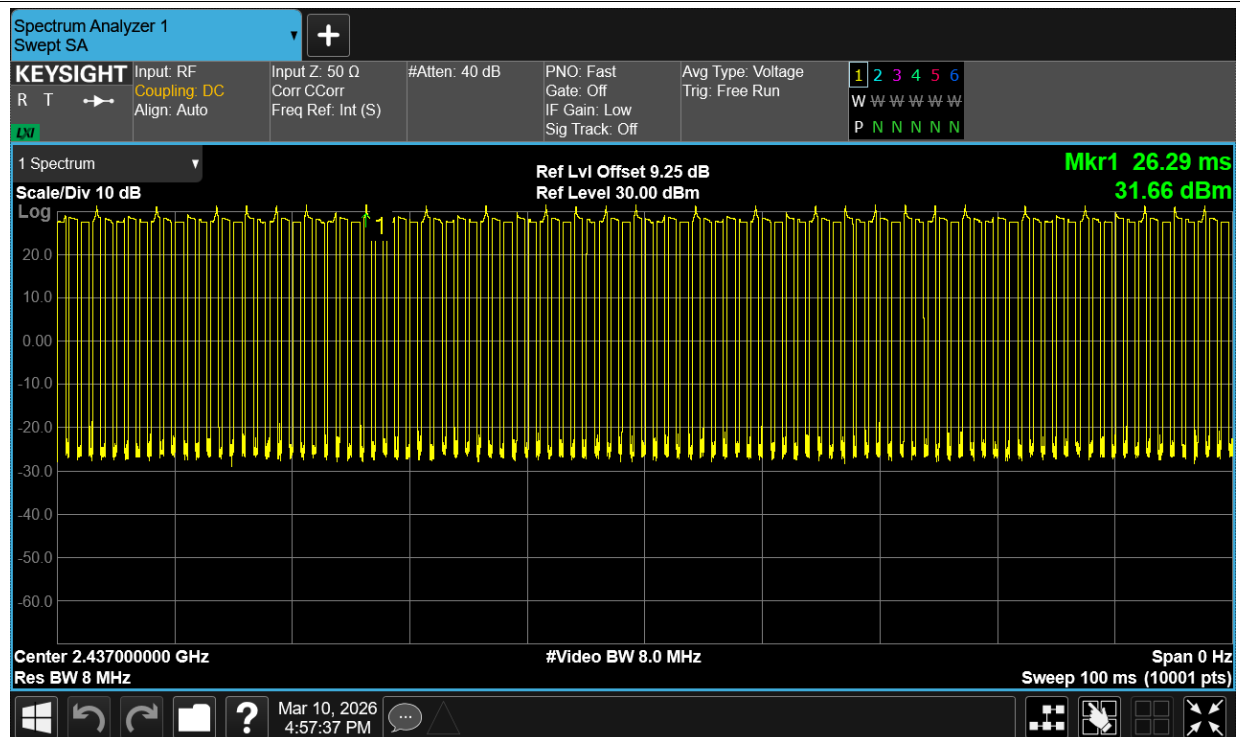
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	67.54	1.7
NVNT	b	2437	Ant1	67.54	1.7
NVNT	b	2462	Ant1	67.64	1.7
NVNT	b	2412	Ant2	67.48	1.71
NVNT	b	2437	Ant2	67.45	1.71
NVNT	b	2462	Ant2	67.47	1.71
NVNT	b	2412	Ant3	67.3	1.72
NVNT	b	2437	Ant3	67.45	1.71
NVNT	b	2462	Ant3	67.58	1.7
NVNT	b	2412	Ant4	66.79	1.75
NVNT	b	2437	Ant4	67.63	1.7
NVNT	b	2462	Ant4	67.47	1.71
NVNT	g	2412	Ant1	95.29	0.21
NVNT	g	2437	Ant1	95.19	0.21
NVNT	g	2462	Ant1	94.92	0.23
NVNT	g	2412	Ant2	94.83	0.23
NVNT	g	2437	Ant2	95.1	0.22
NVNT	g	2462	Ant2	95.21	0.21
NVNT	g	2412	Ant3	95.19	0.21
NVNT	g	2437	Ant3	95.21	0.21
NVNT	g	2462	Ant3	94.96	0.22
NVNT	g	2412	Ant4	95.09	0.22
NVNT	g	2437	Ant4	94.9	0.23
NVNT	g	2462	Ant4	94.56	0.24
NVNT	ax20	2412	Sum	80.85	0.92
NVNT	ax20	2437	Sum	79.75	0.98
NVNT	ax20	2462	Sum	79.68	0.99
NVNT	ax40	2422	Sum	79.54	0.99
NVNT	ax40	2437	Sum	79.5	1
NVNT	ax40	2452	Sum	79.82	0.98
NVNT	n20	2412	Sum	79.61	0.99
NVNT	n20	2437	Sum	79.6	0.99
NVNT	n20	2462	Sum	79.64	0.99
NVNT	n40	2422	Sum	79.58	0.99
NVNT	n40	2437	Sum	80.35	0.95
NVNT	n40	2452	Sum	80.34	0.95

Test Graphs

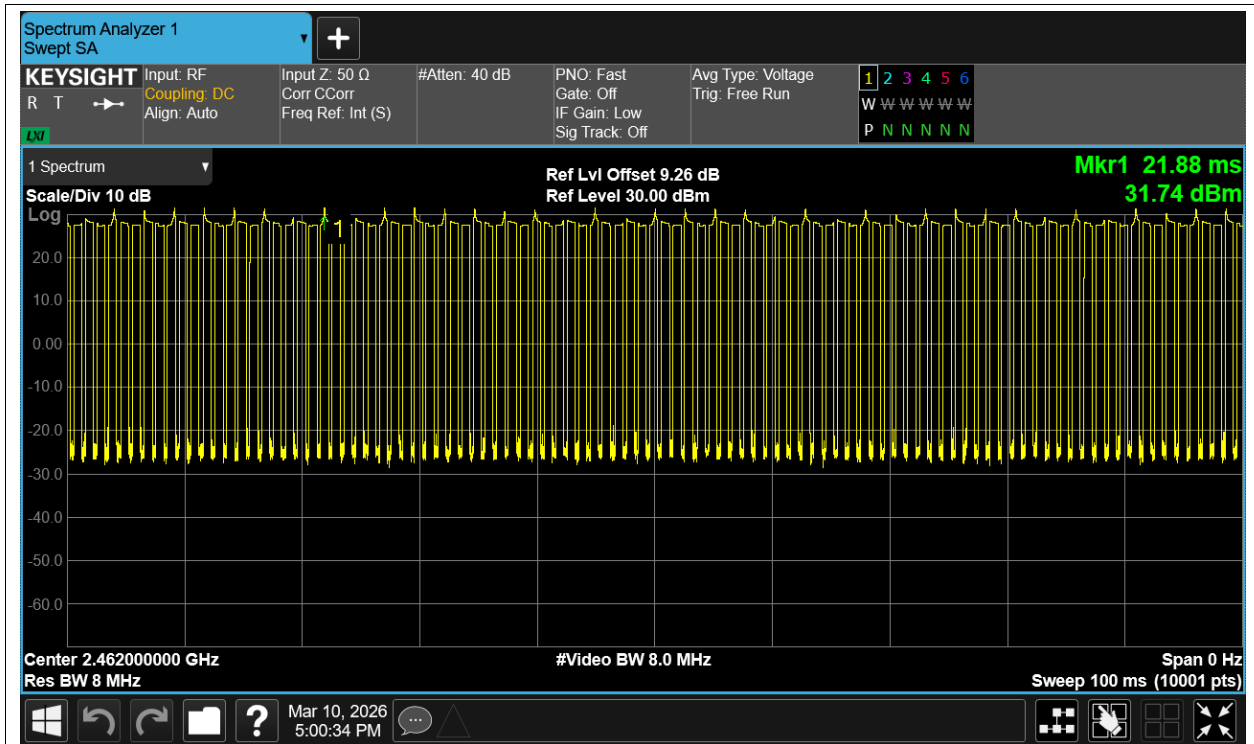
Duty Cycle NVNT b 2412MHz Ant1



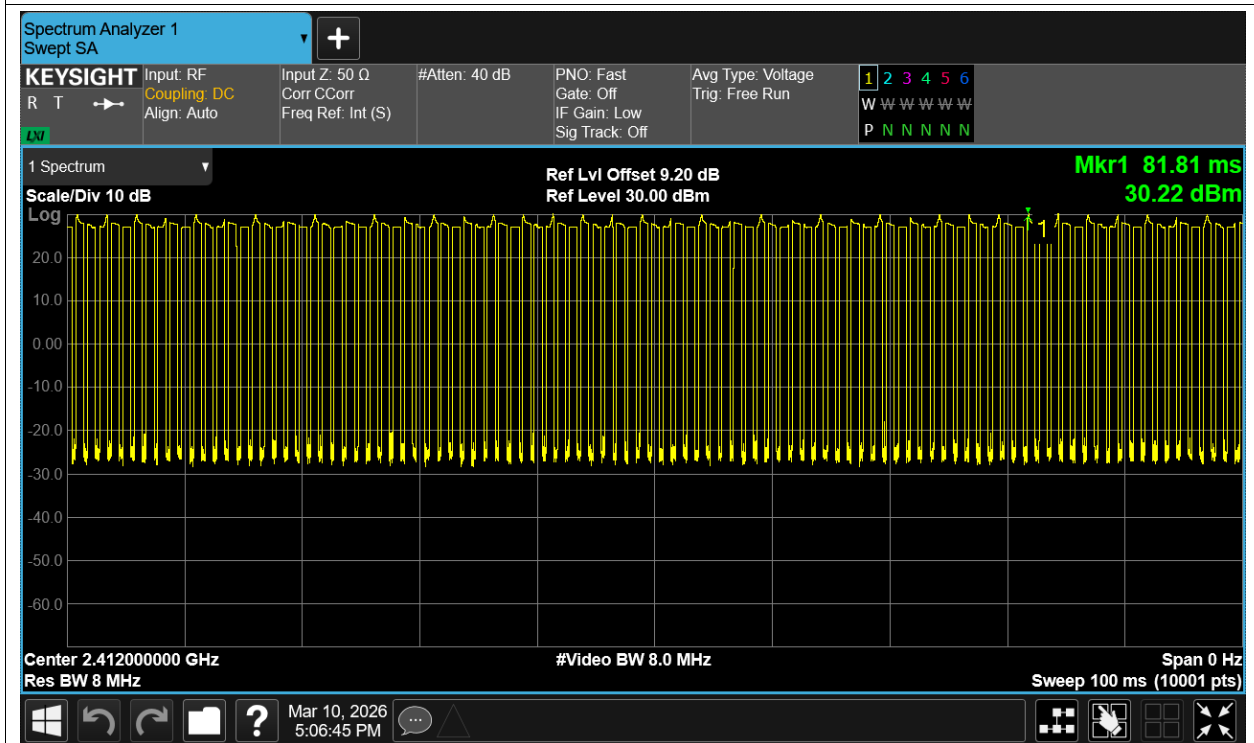
Duty Cycle NVNT b 2437MHz Ant1



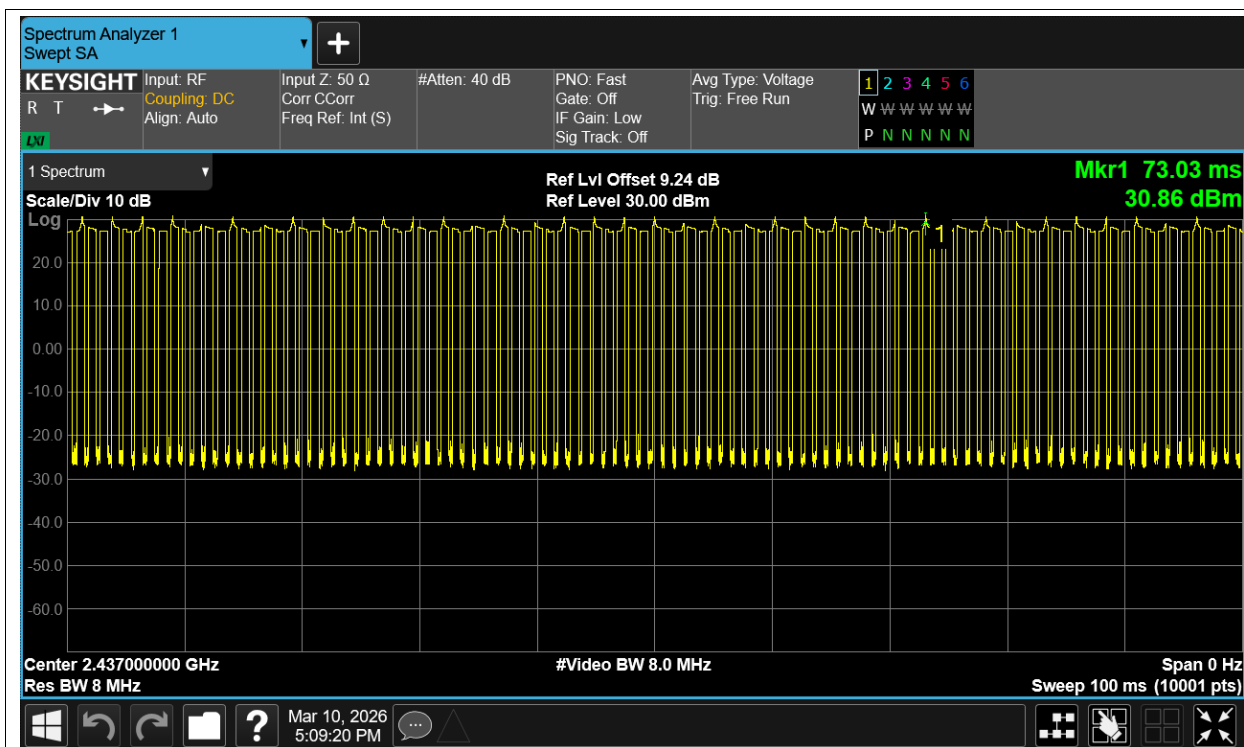
Duty Cycle NVNT b 2462MHz Ant1



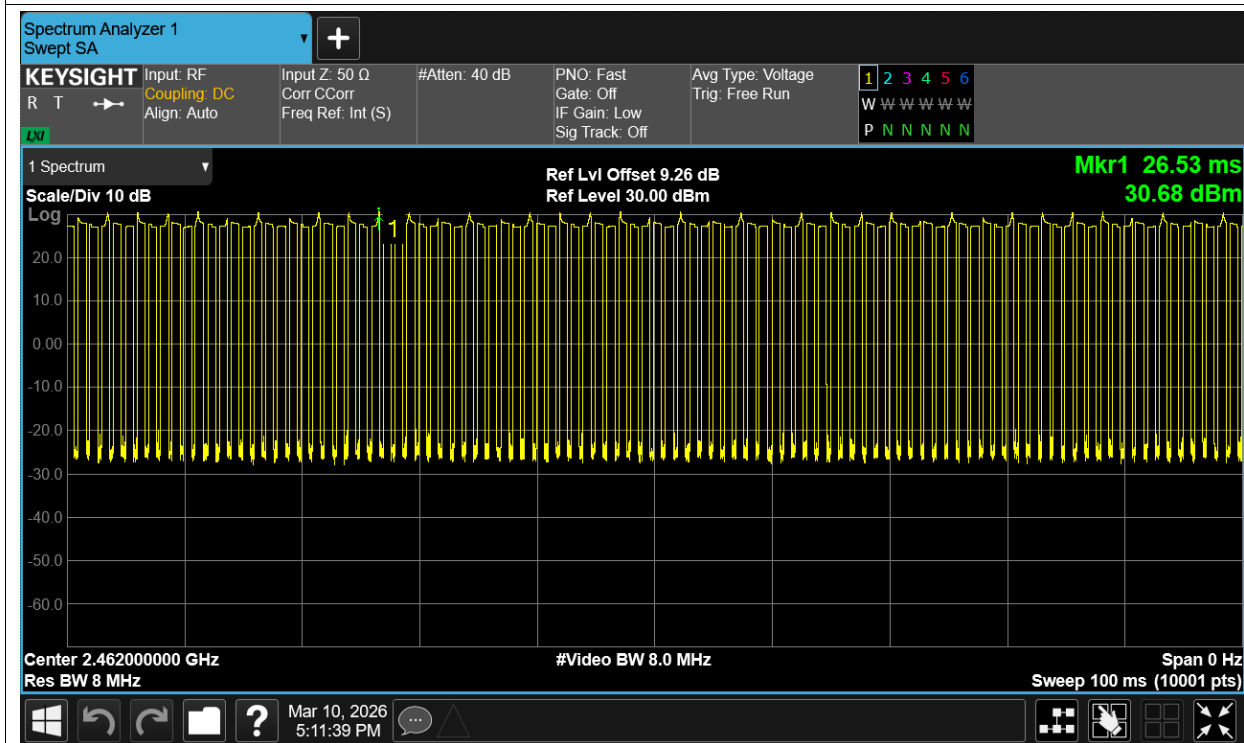
Duty Cycle NVNT b 2412MHz Ant2



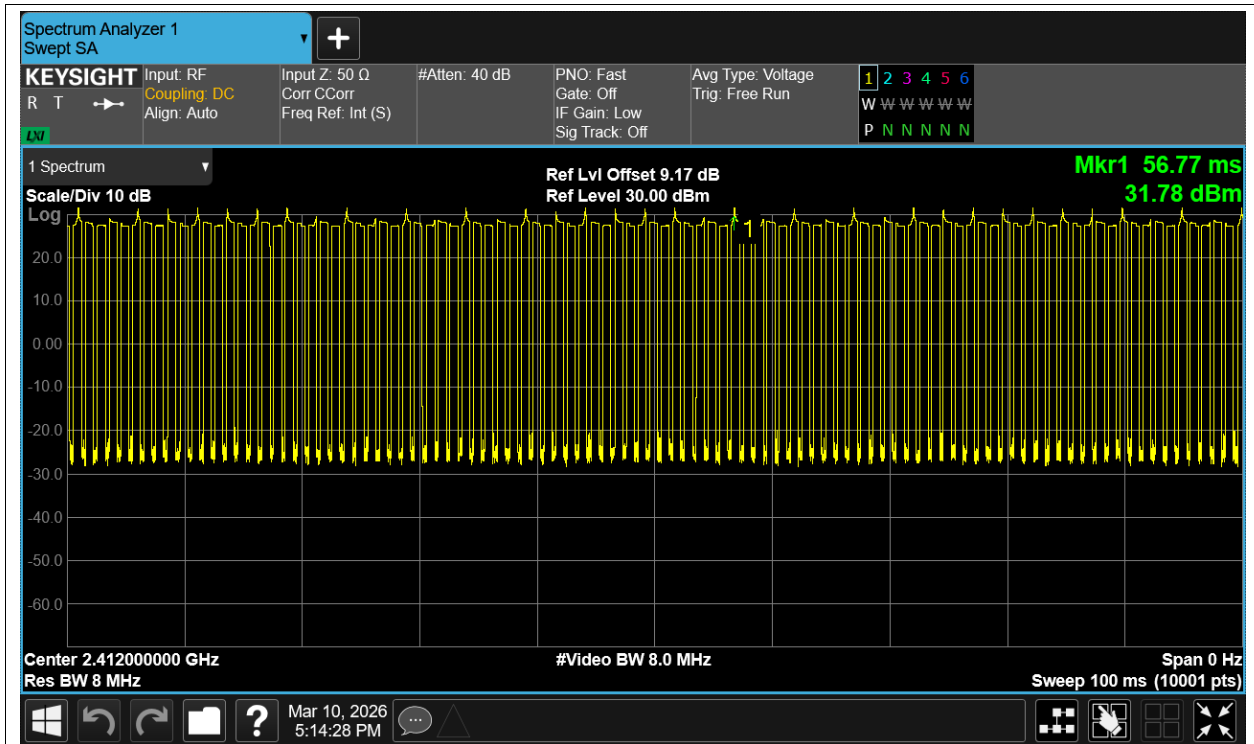
Duty Cycle NVNT b 2437MHz Ant2



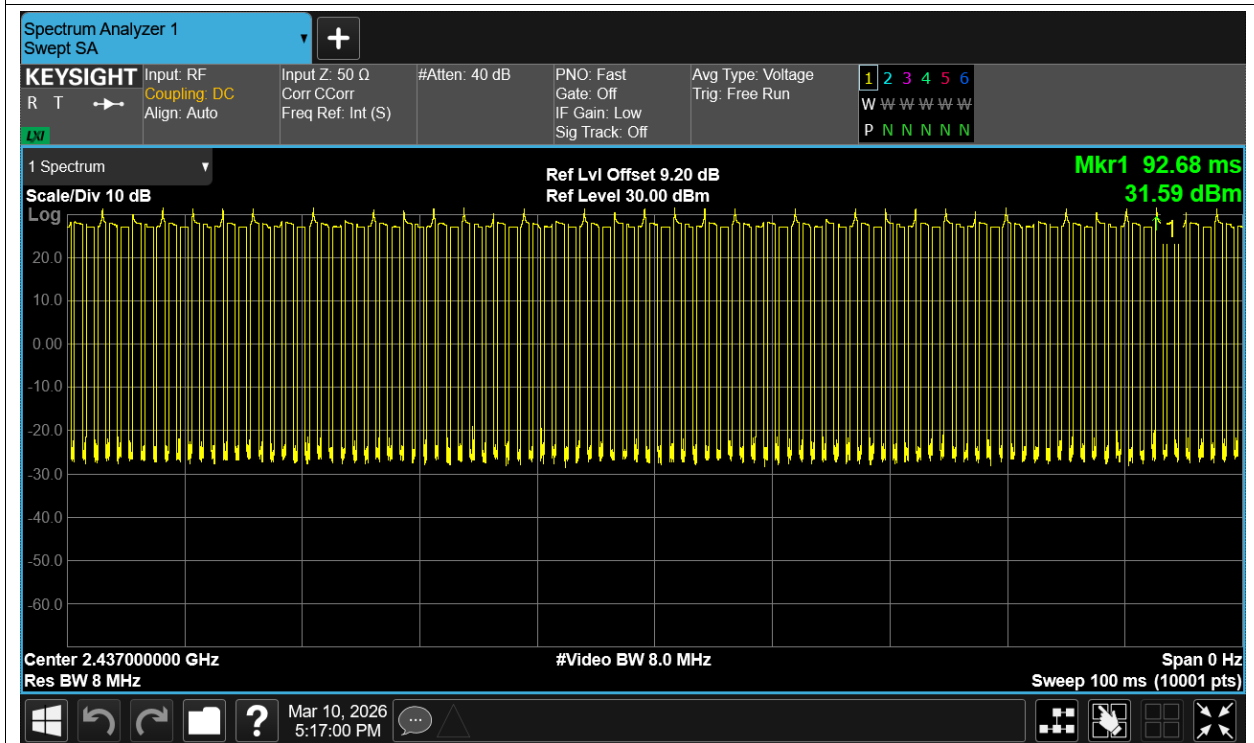
Duty Cycle NVNT b 2462MHz Ant2



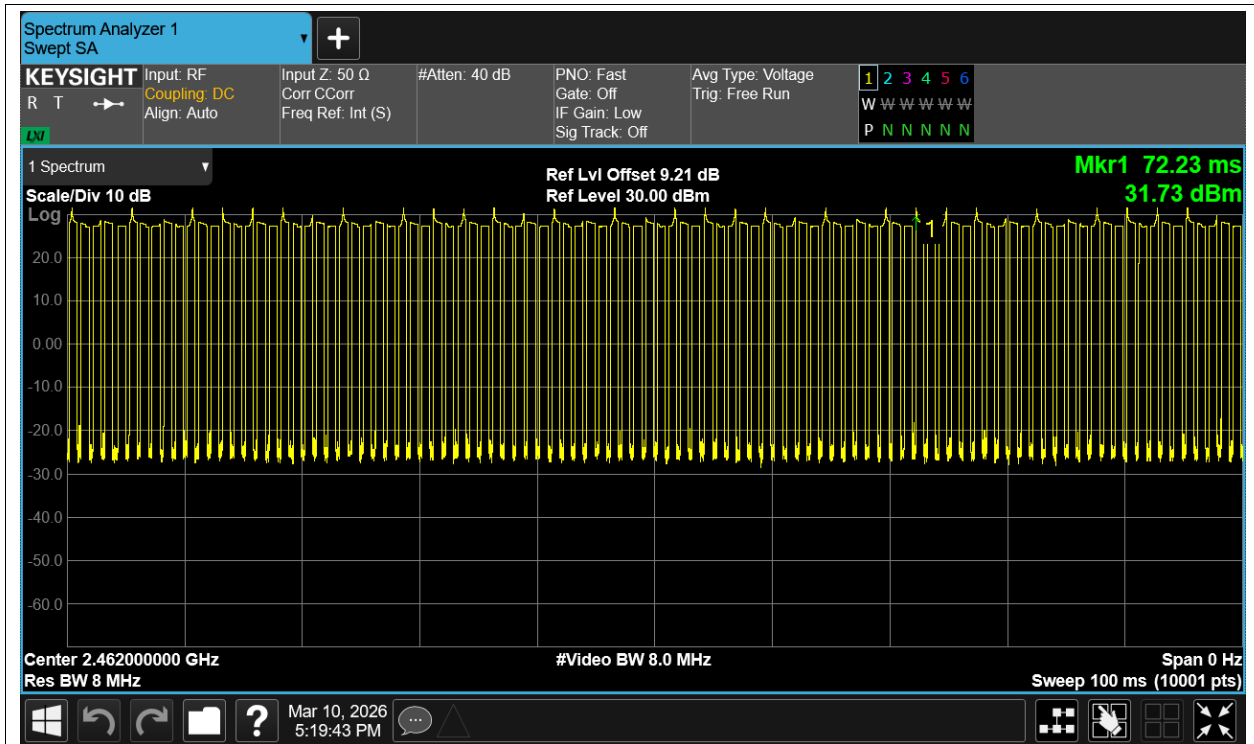
Duty Cycle NVNT b 2412MHz Ant3



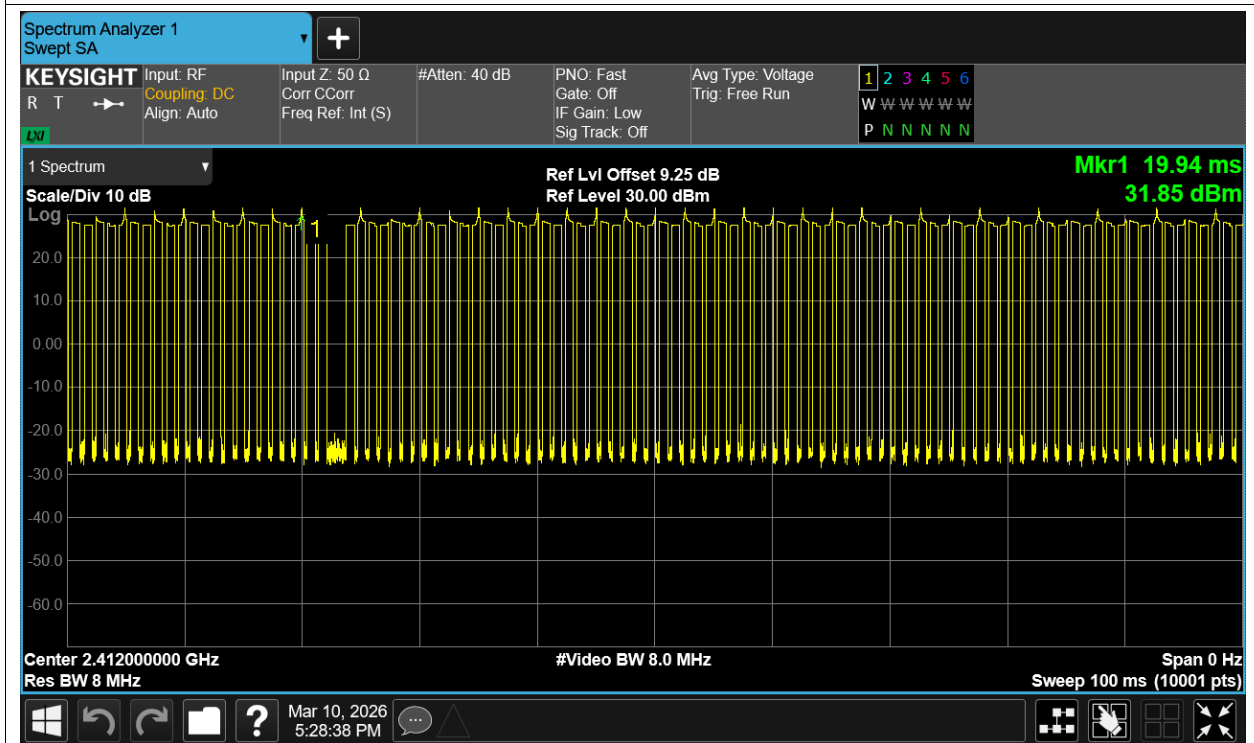
Duty Cycle NVNT b 2437MHz Ant3



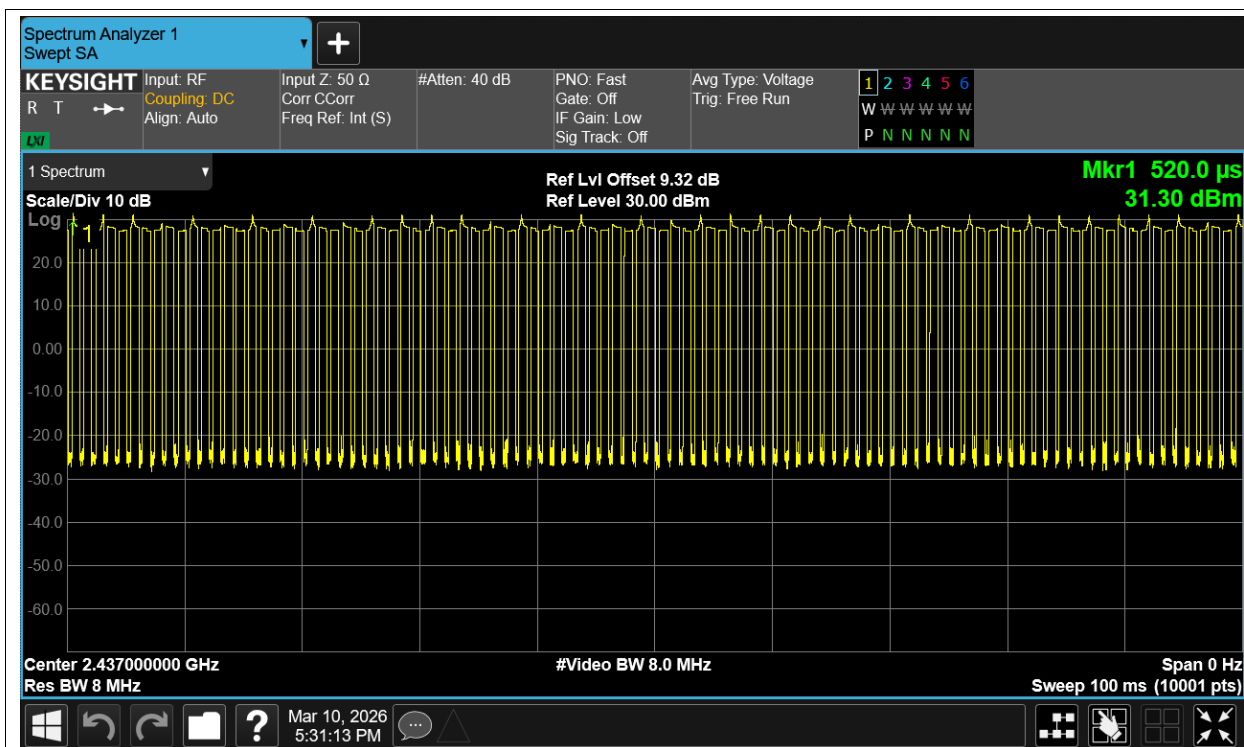
Duty Cycle NVNT b 2462MHz Ant3



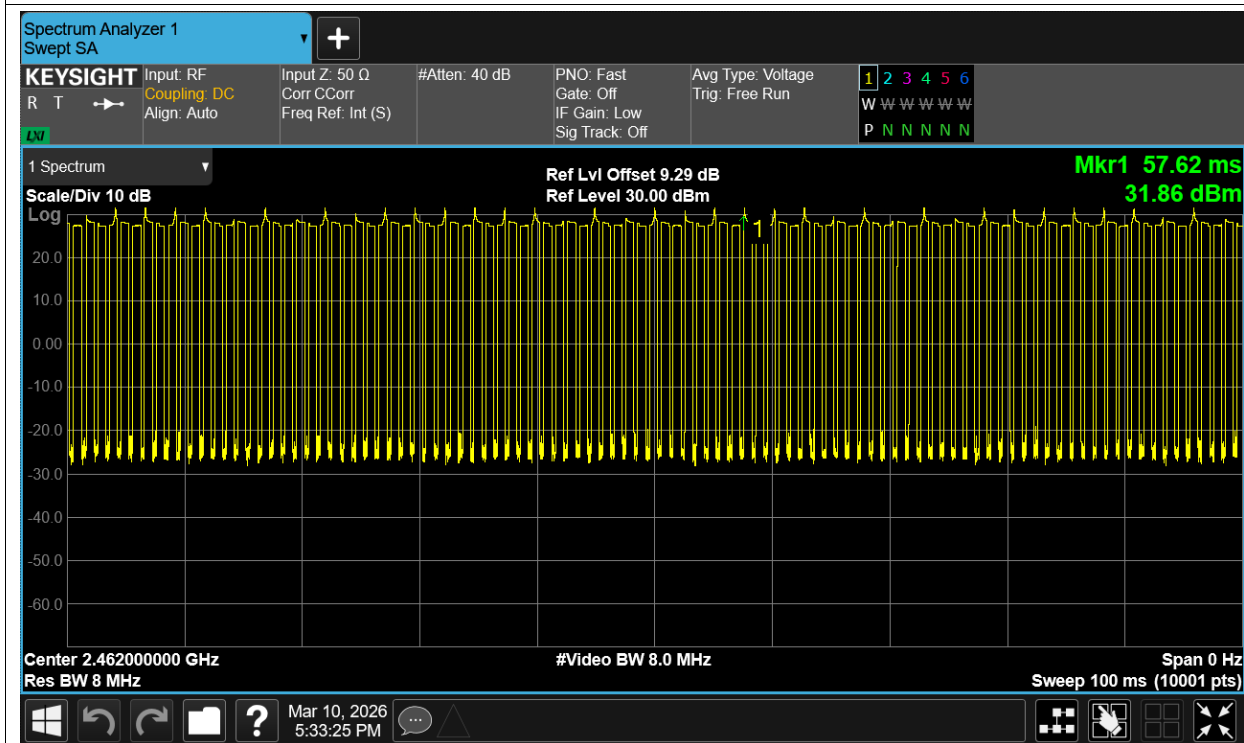
Duty Cycle NVNT b 2412MHz Ant4



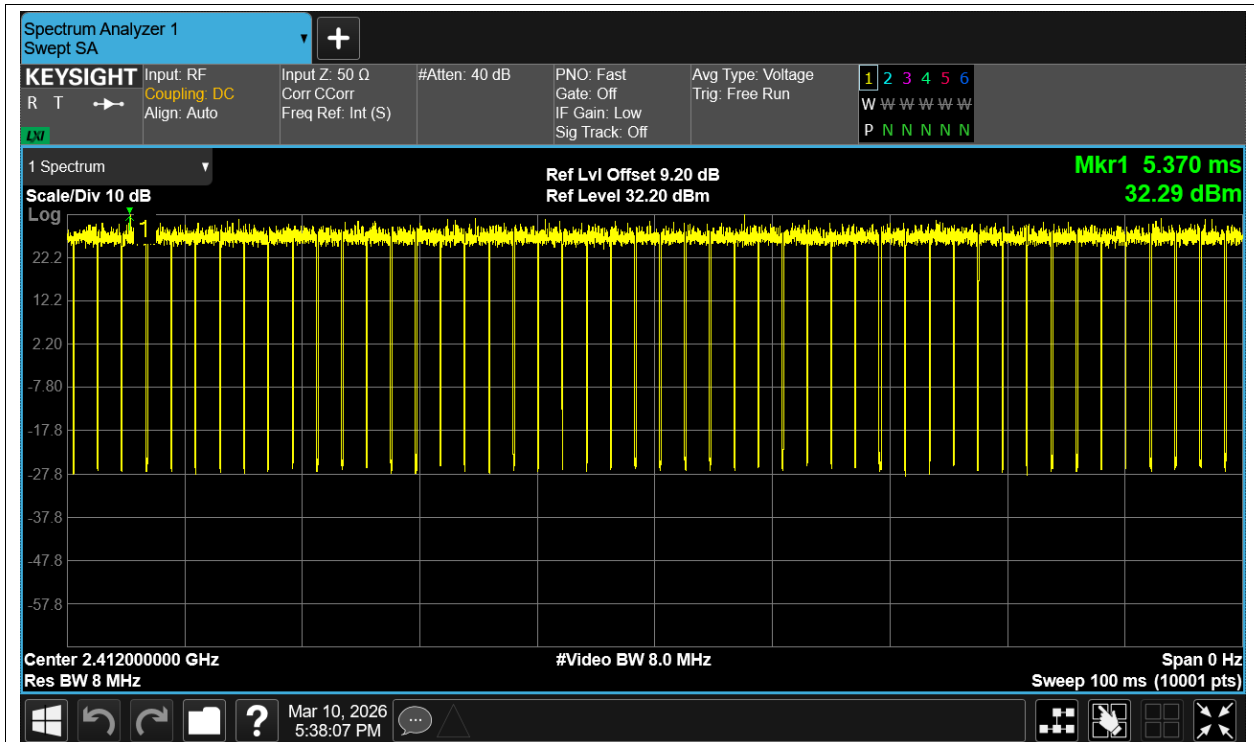
Duty Cycle NVNT b 2437MHz Ant4



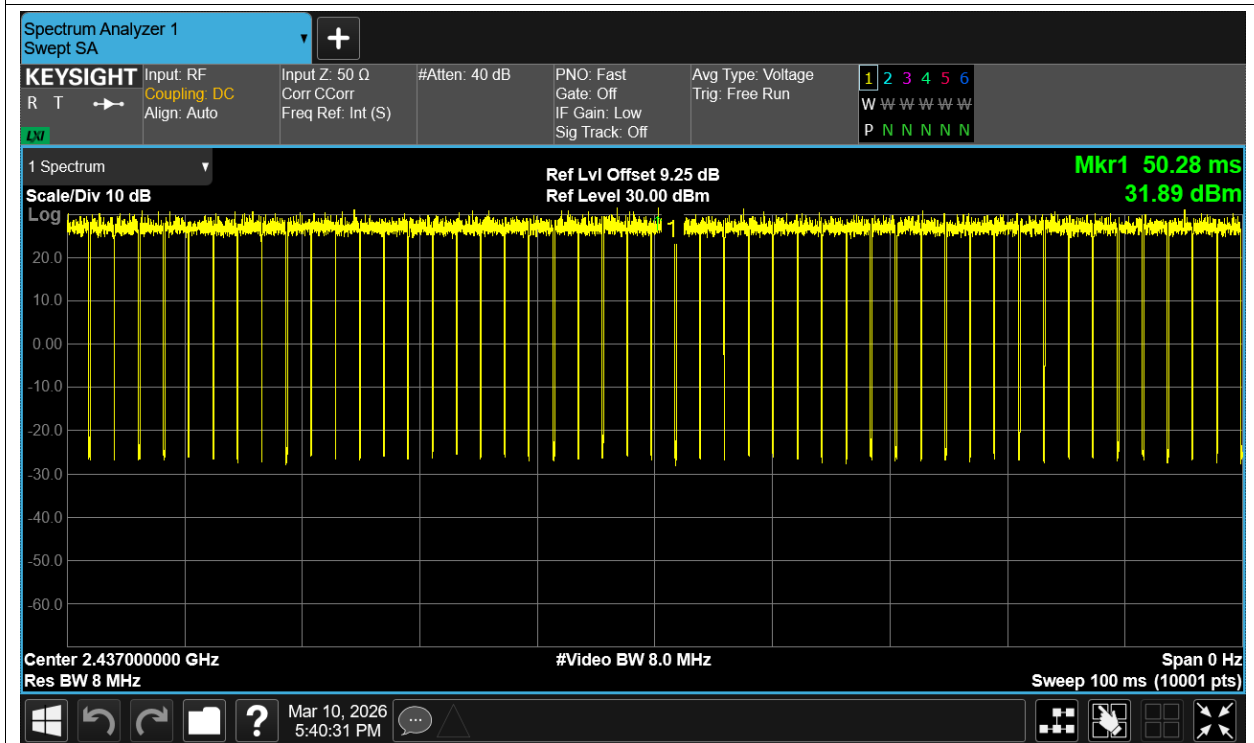
Duty Cycle NVNT b 2462MHz Ant4



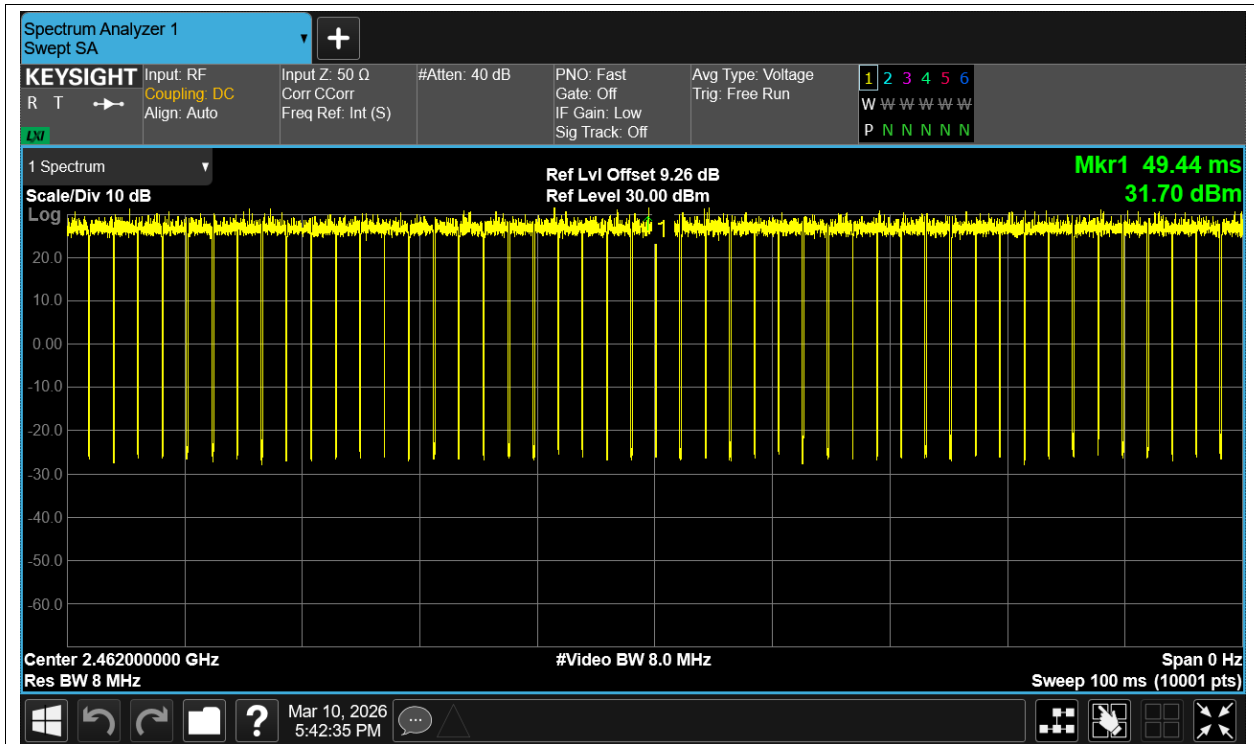
Duty Cycle NVNT g 2412MHz Ant1



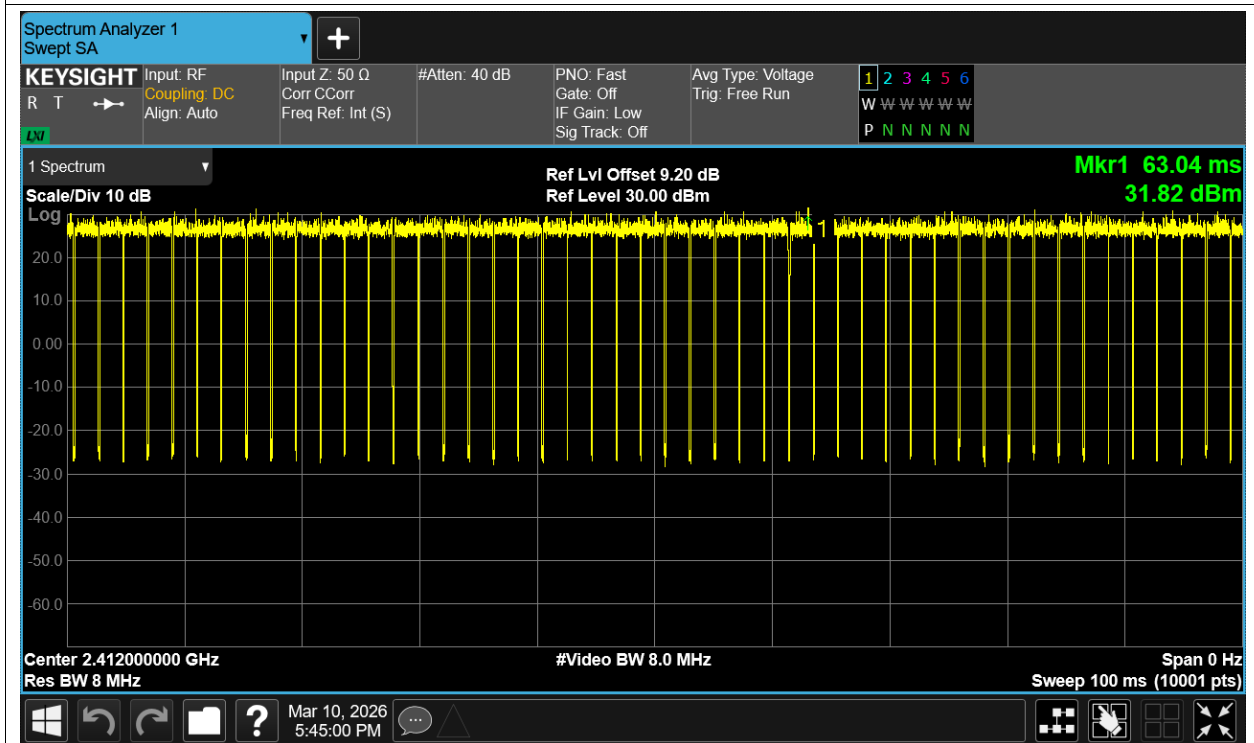
Duty Cycle NVNT g 2437MHz Ant1



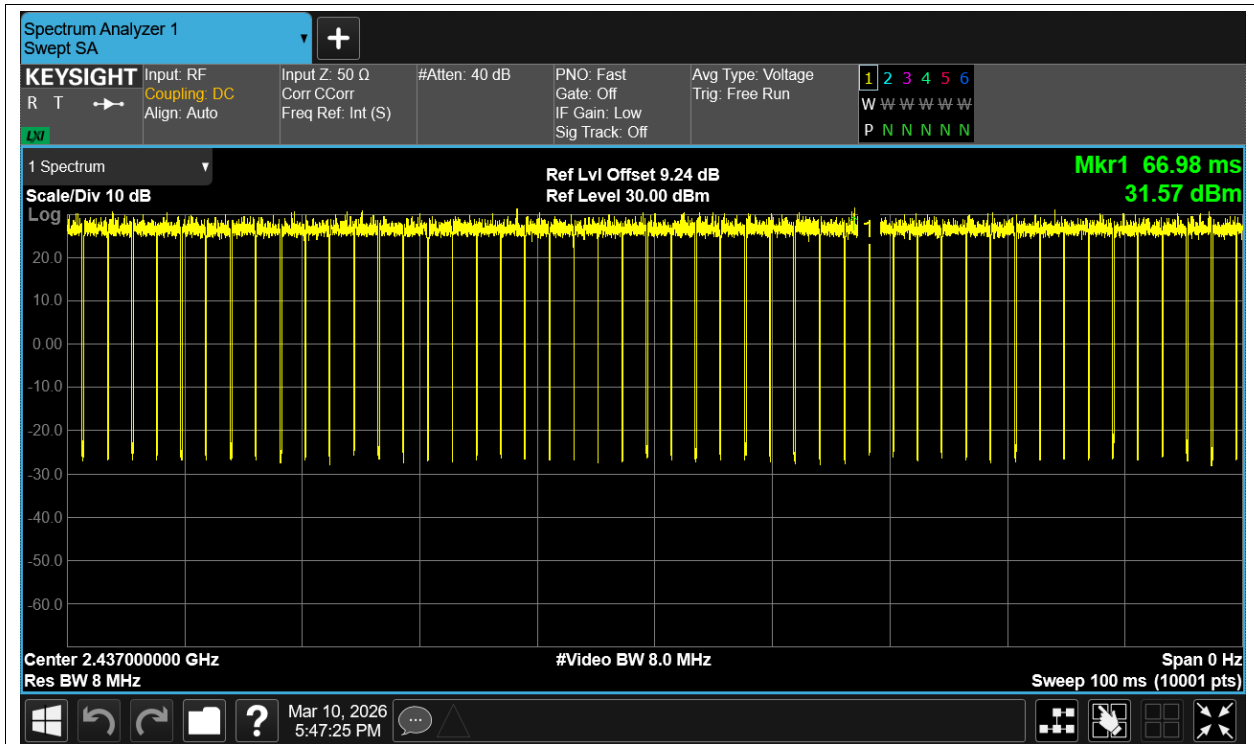
Duty Cycle NVNT g 2462MHz Ant1



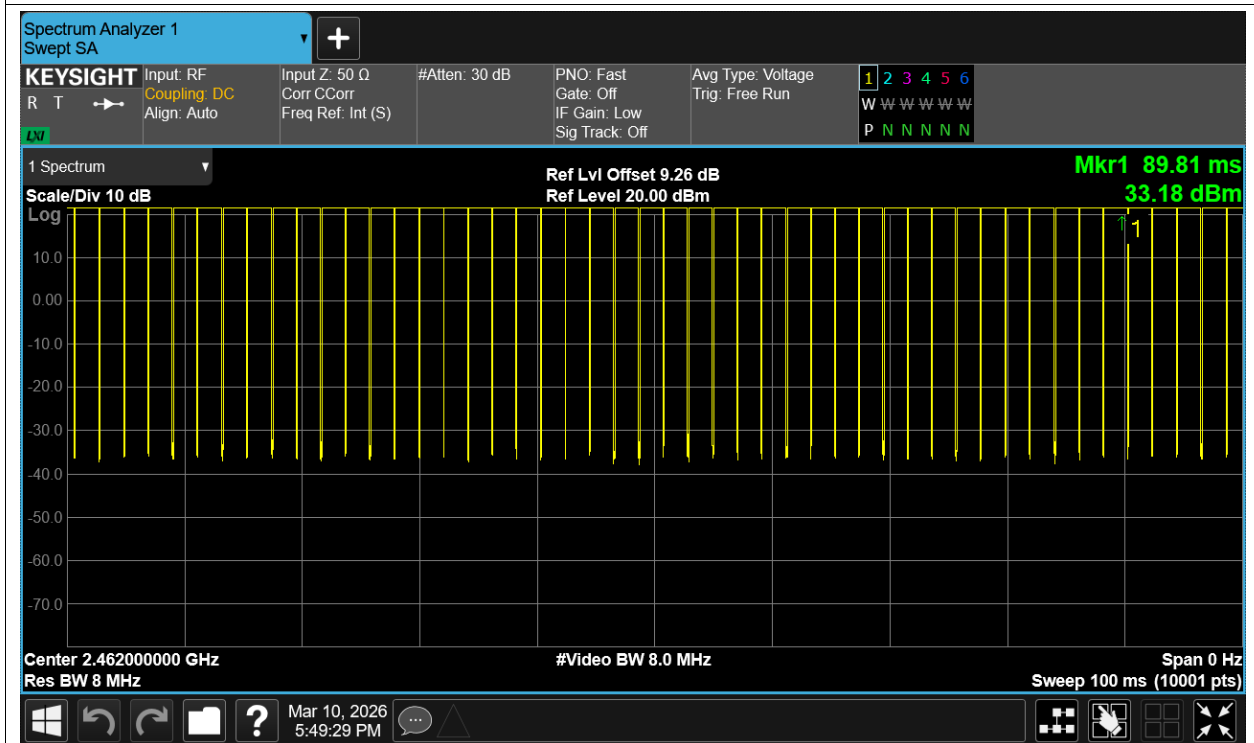
Duty Cycle NVNT g 2412MHz Ant2



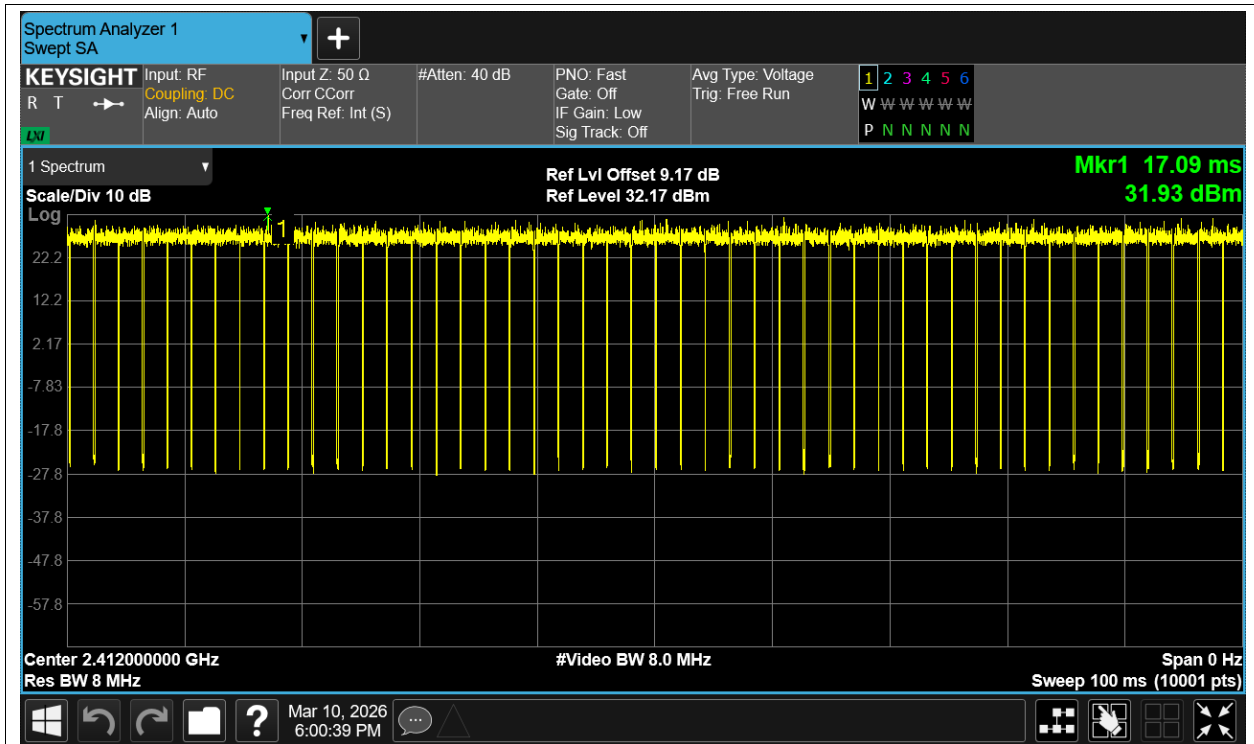
Duty Cycle NVNT g 2437MHz Ant2



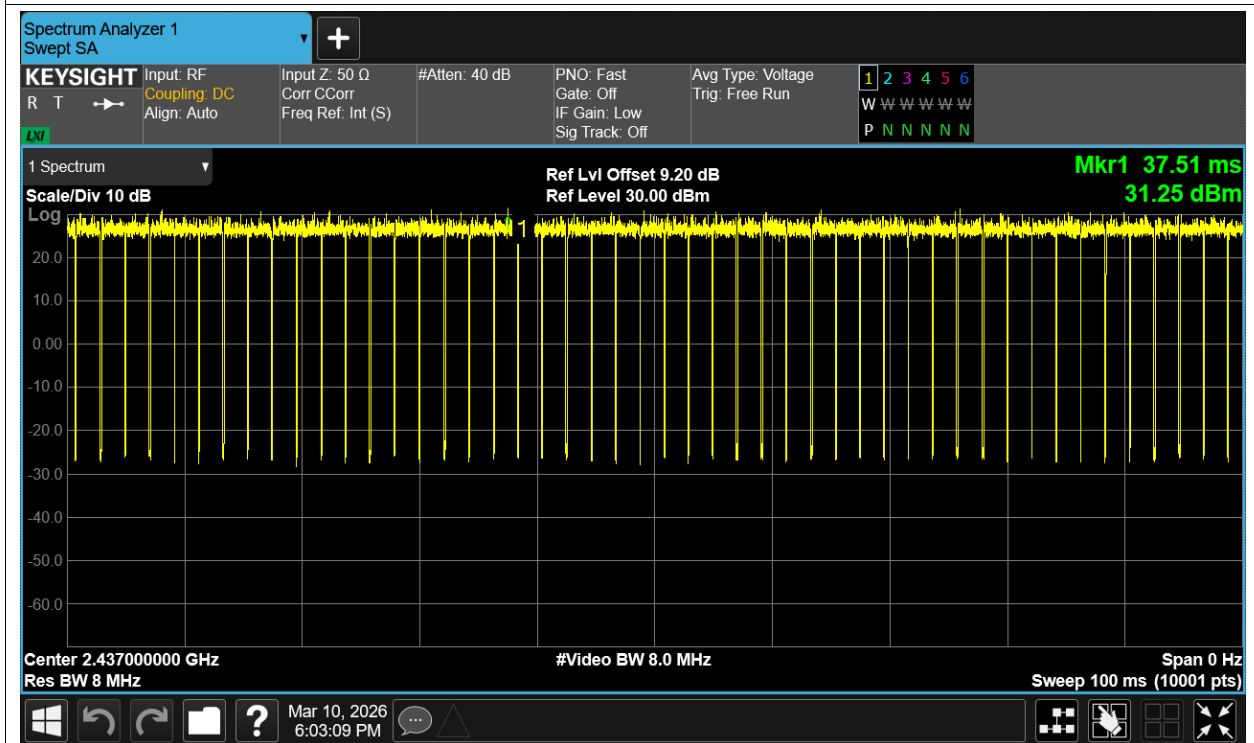
Duty Cycle NVNT g 2462MHz Ant2



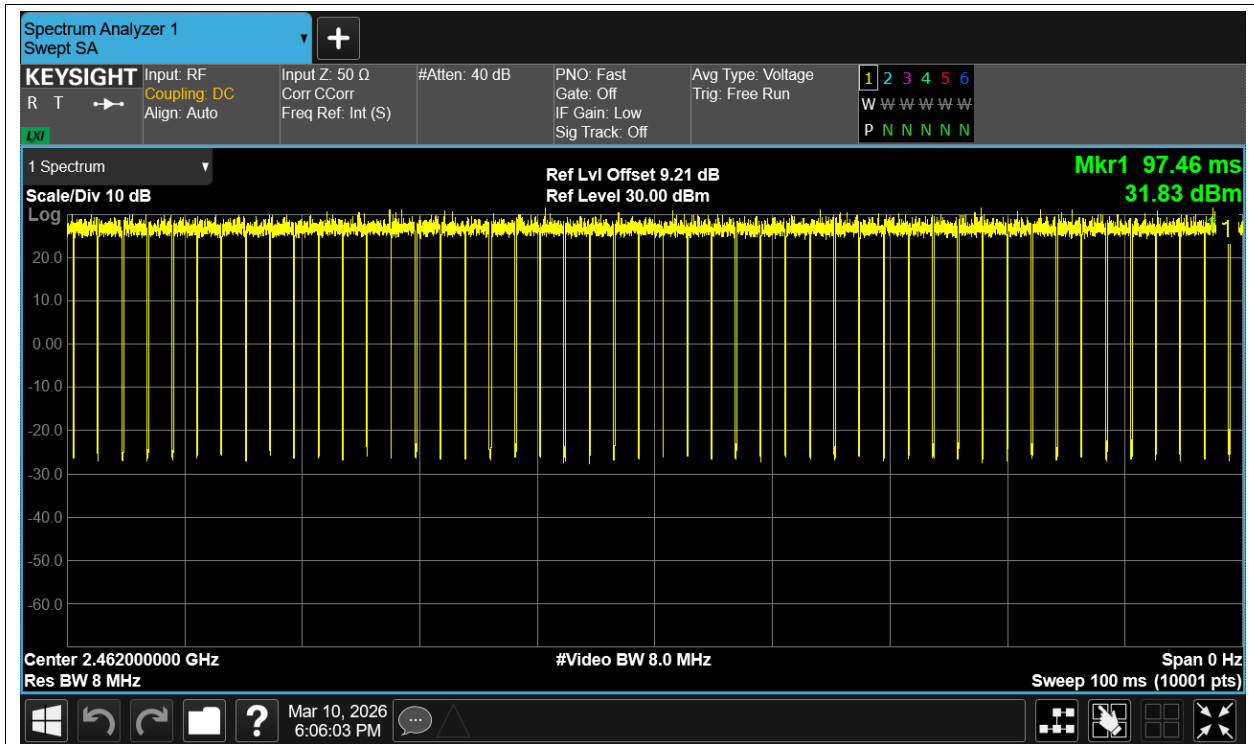
Duty Cycle NVNT g 2412MHz Ant3



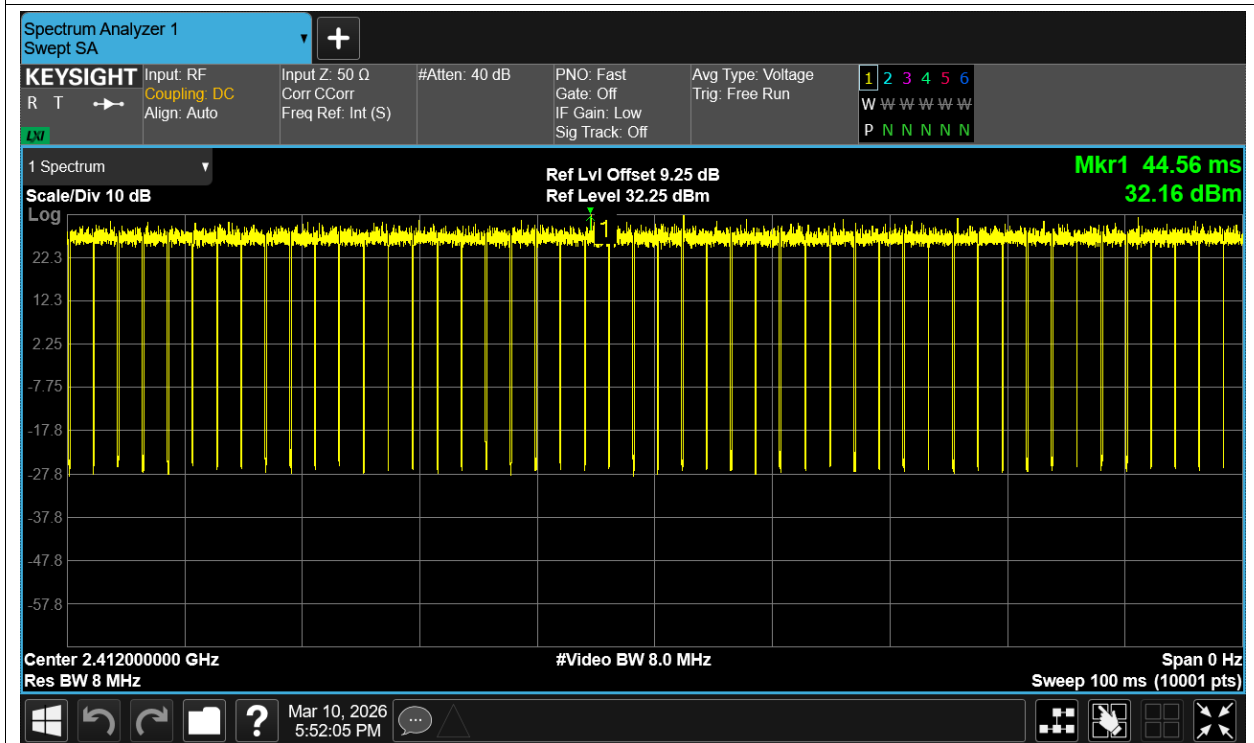
Duty Cycle NVNT g 2437MHz Ant3



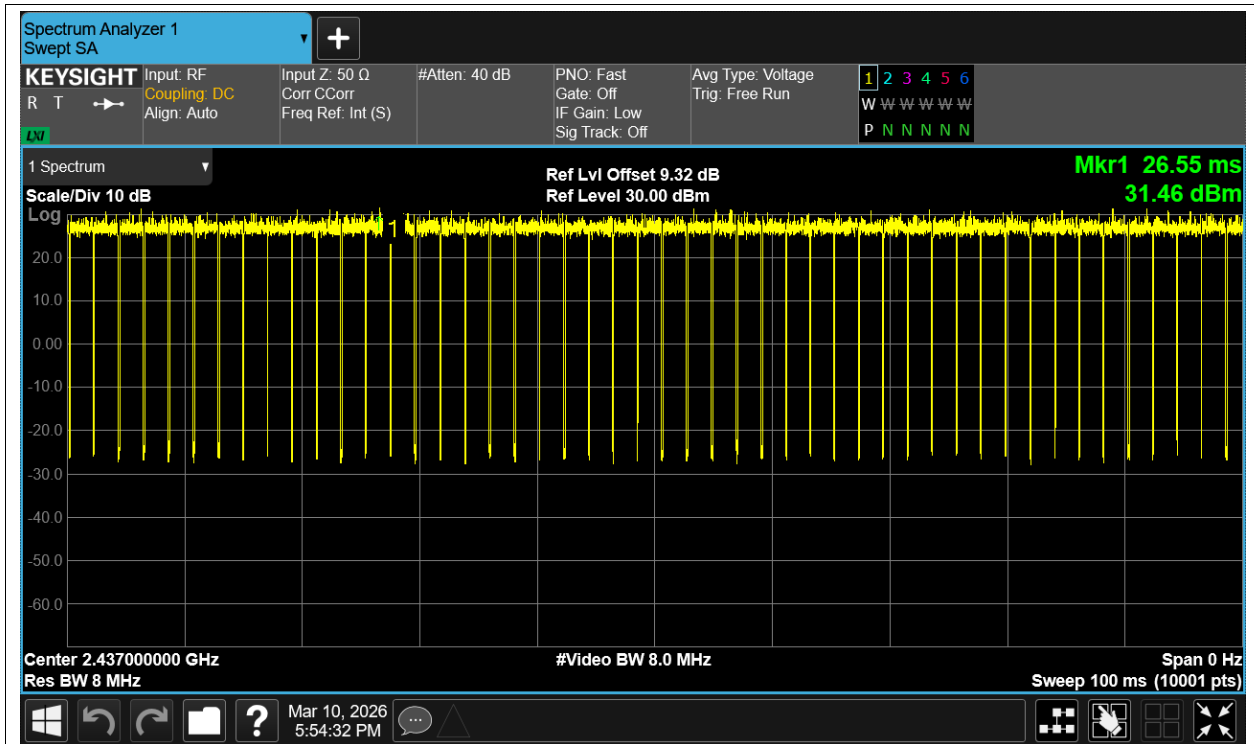
Duty Cycle NVNT g 2462MHz Ant3



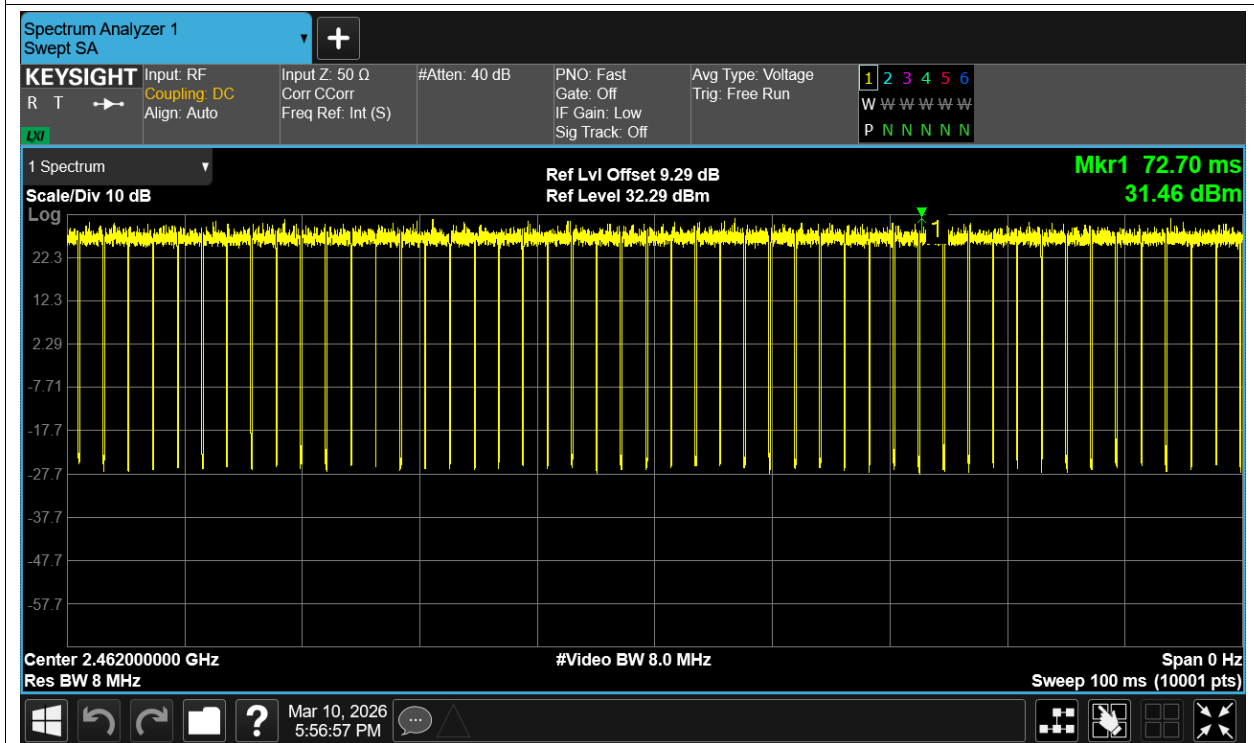
Duty Cycle NVNT g 2412MHz Ant4



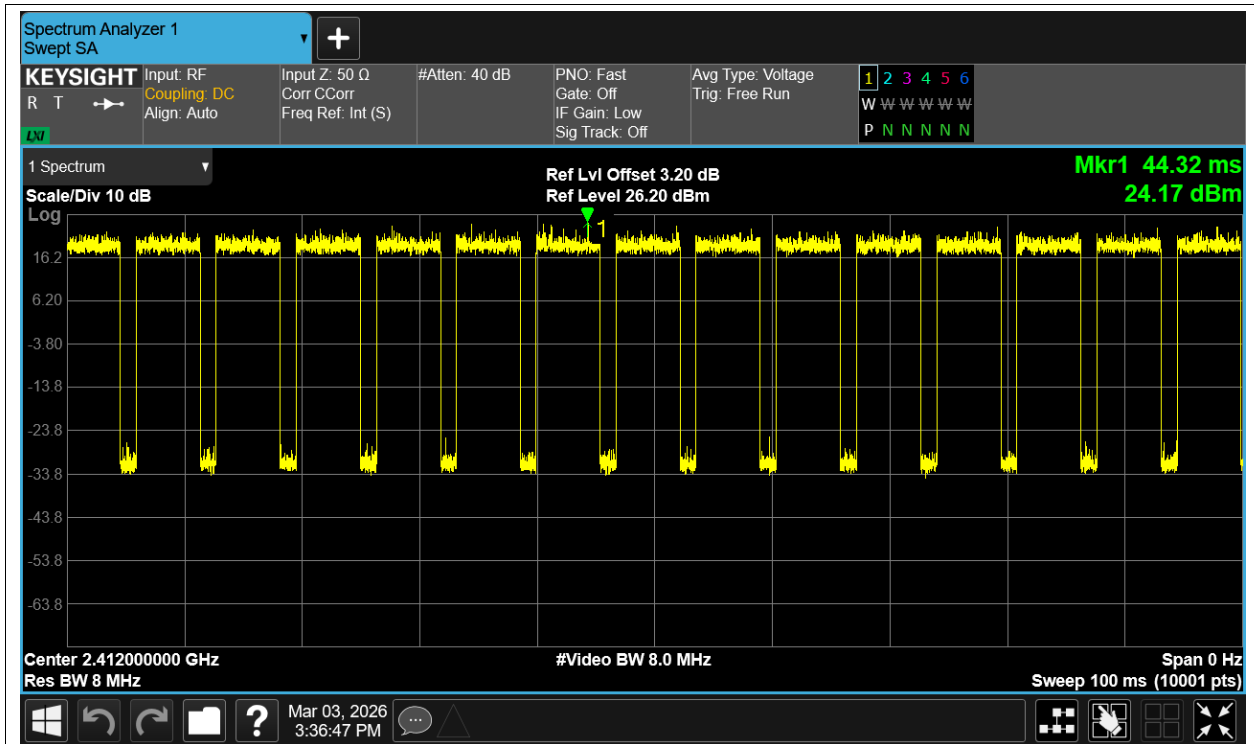
Duty Cycle NVNT g 2437MHz Ant4



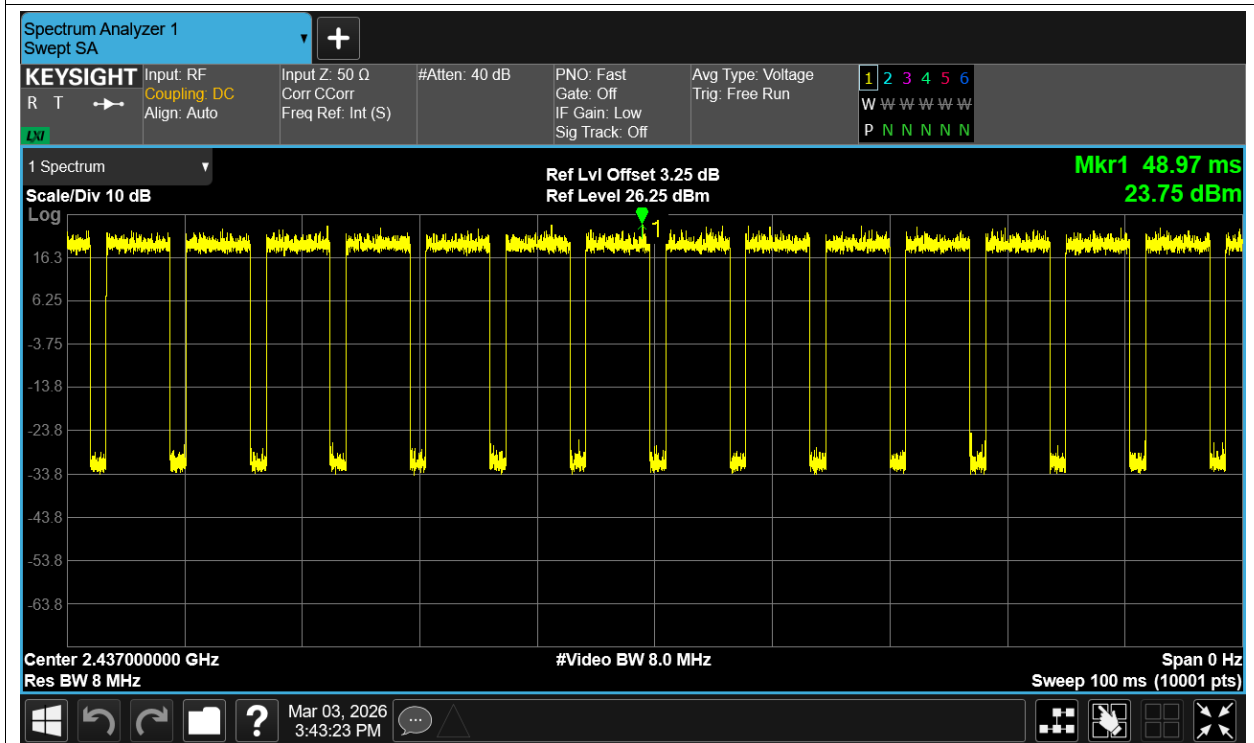
Duty Cycle NVNT g 2462MHz Ant4



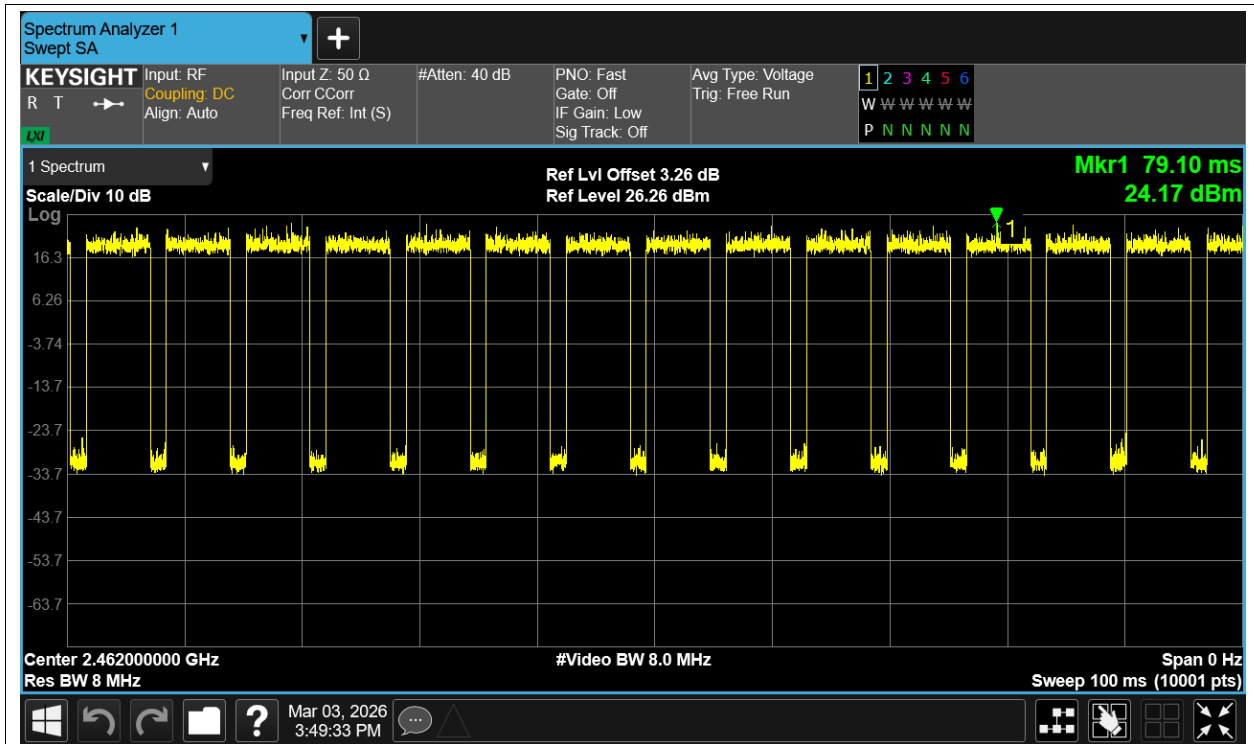
Duty Cycle NVNT ax20 2412MHz Sum



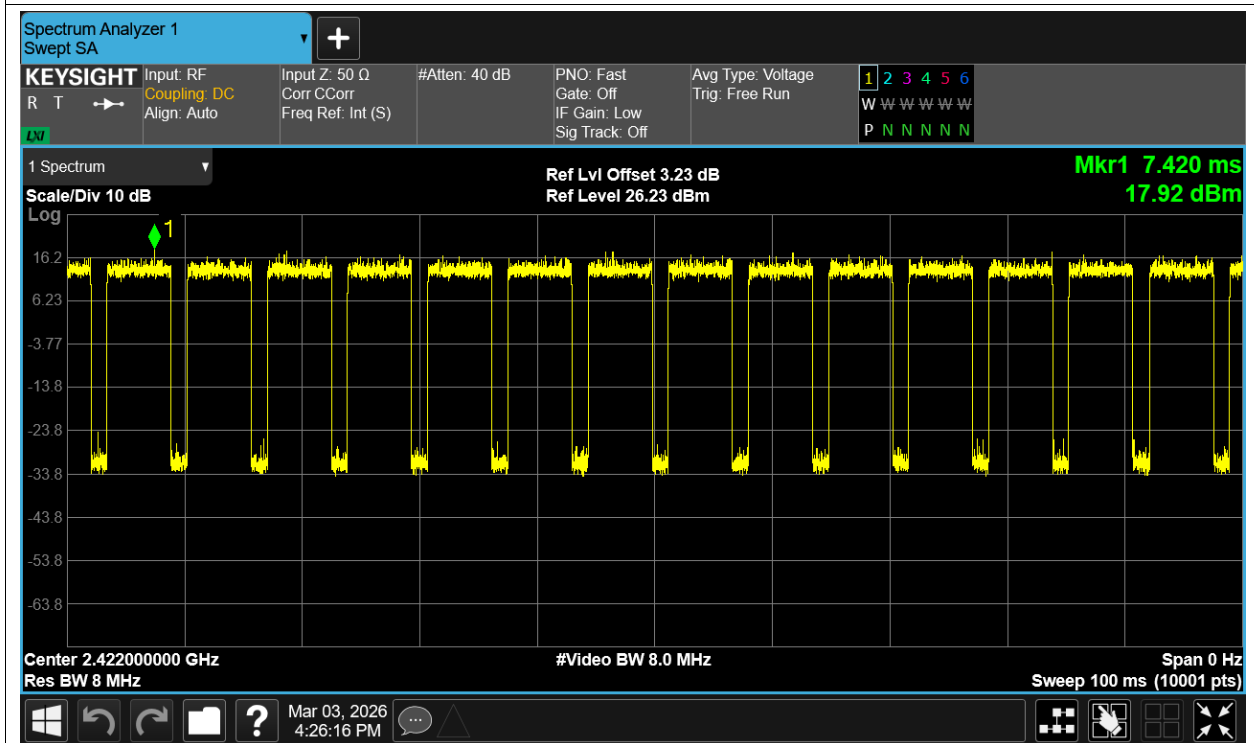
Duty Cycle NVNT ax20 2437MHz Sum



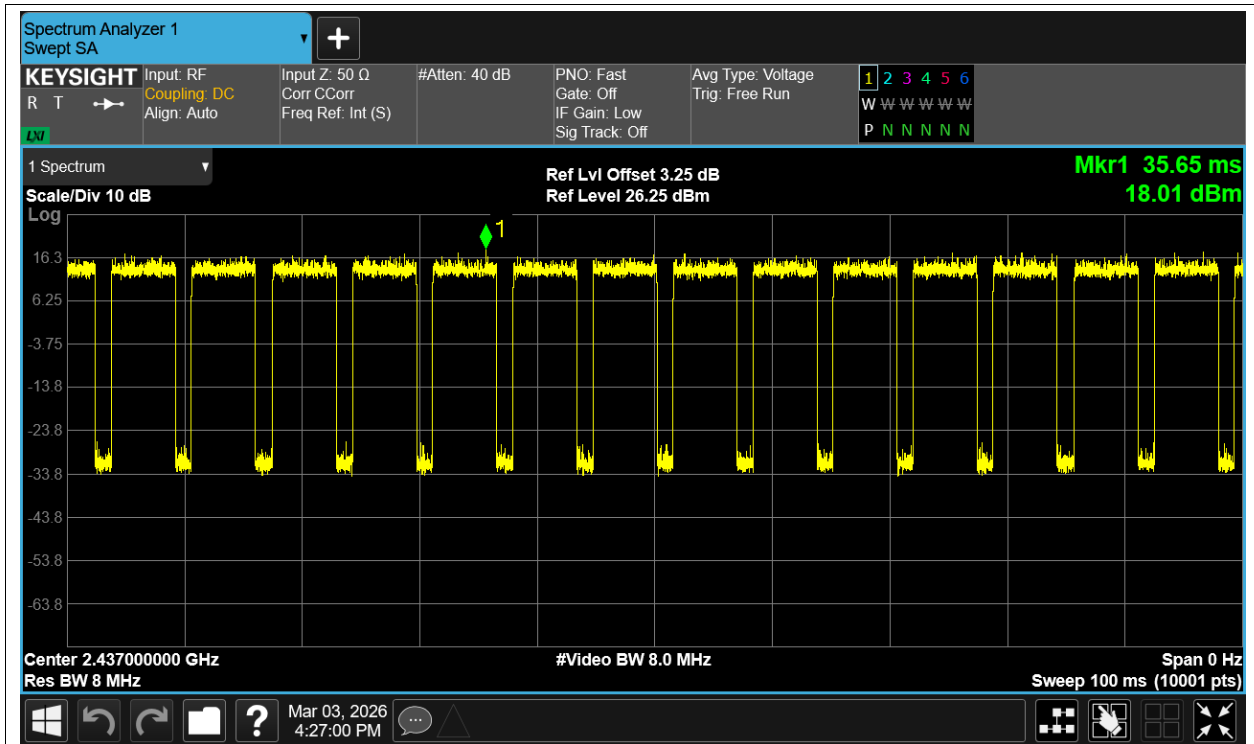
Duty Cycle NVNT ax20 2462MHz Sum



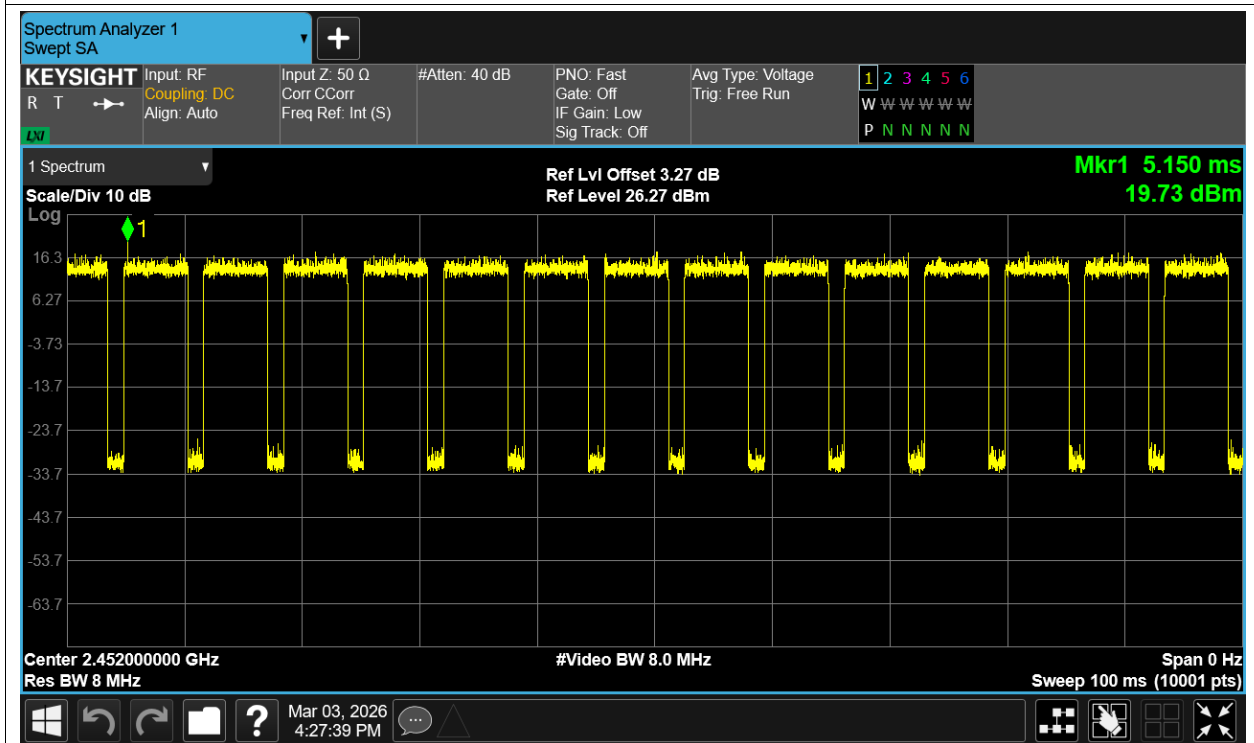
Duty Cycle NVNT ax40 2422MHz Sum



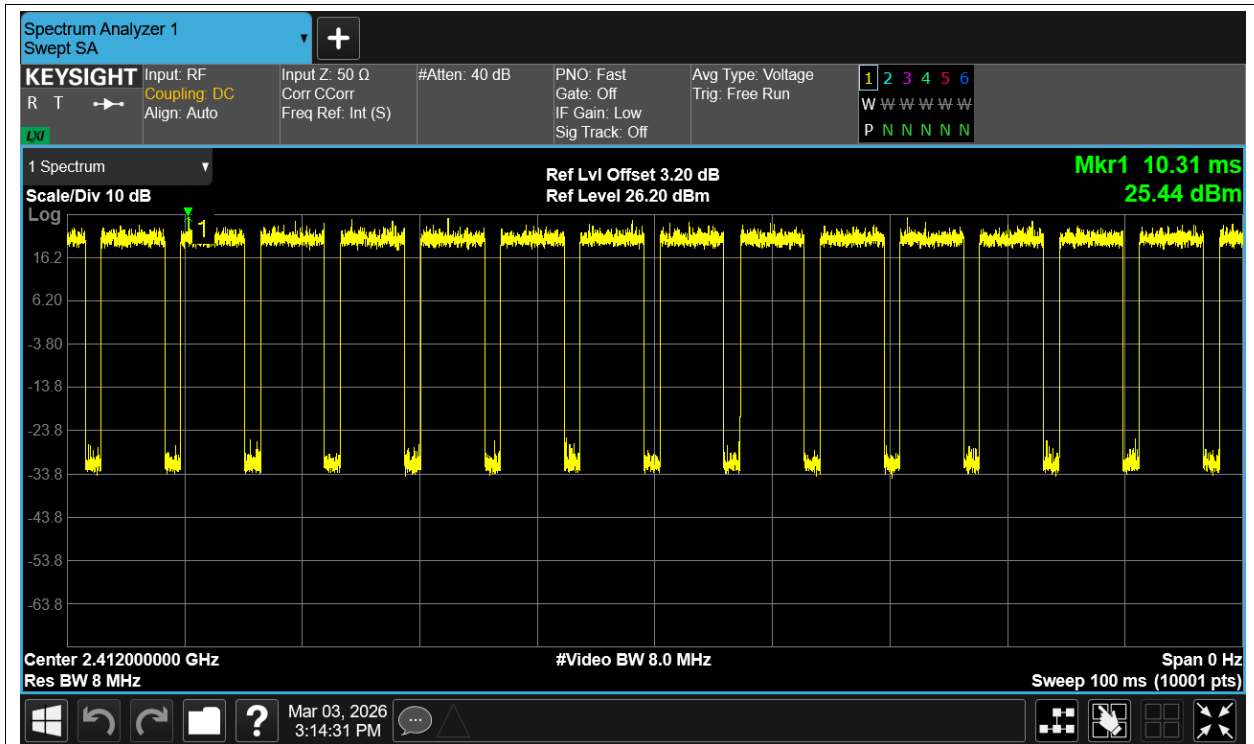
Duty Cycle NVNT ax40 2437MHz Sum



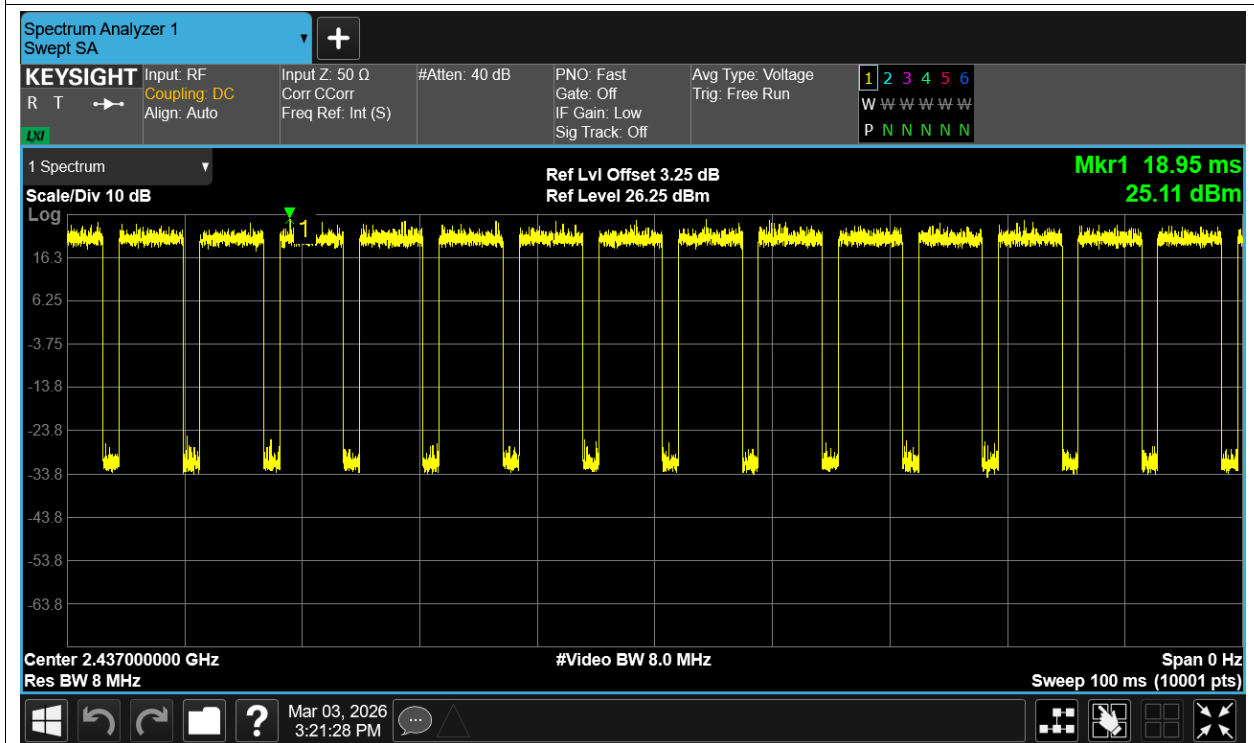
Duty Cycle NVNT ax40 2452MHz Sum



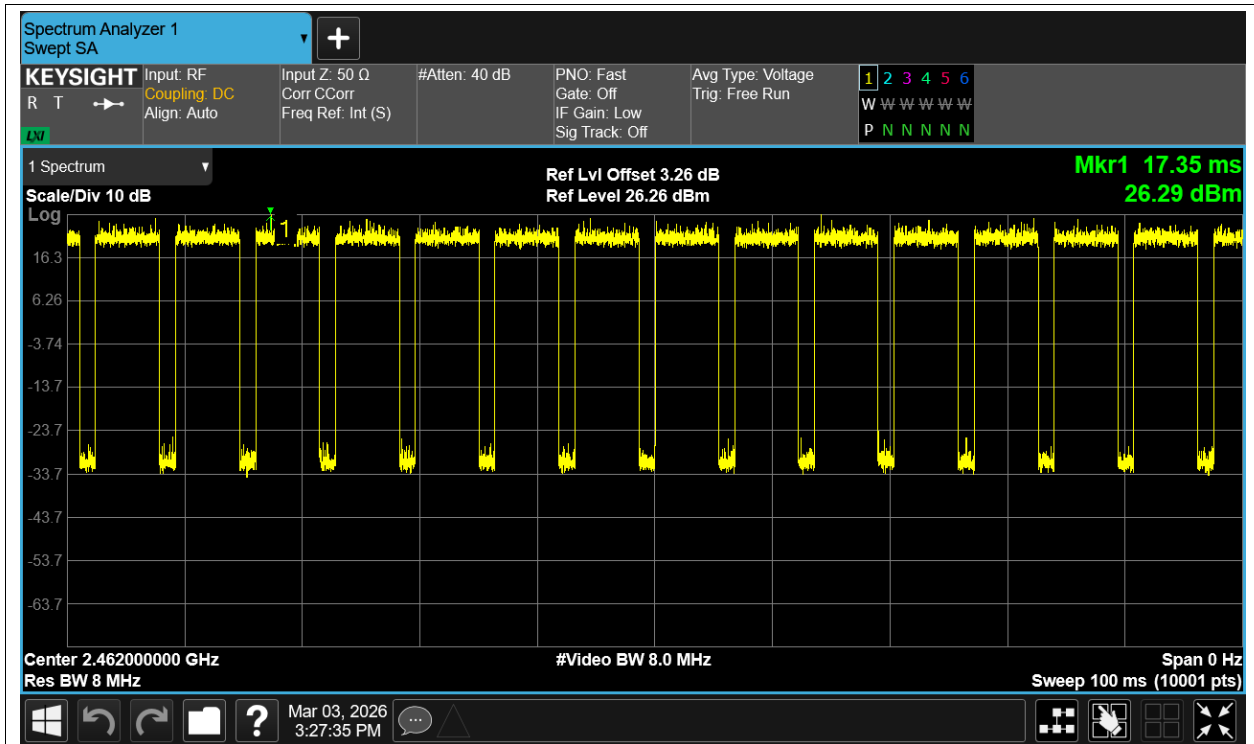
Duty Cycle NVNT n20 2412MHz Sum



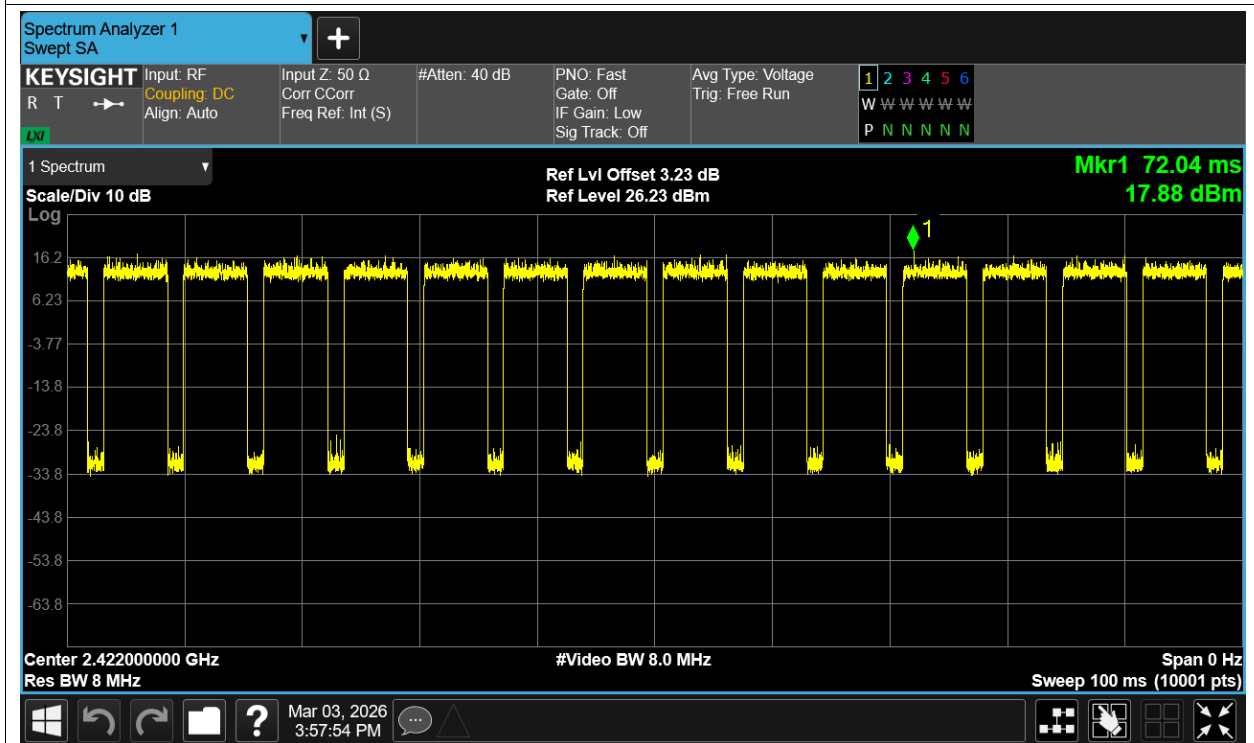
Duty Cycle NVNT n20 2437MHz Sum



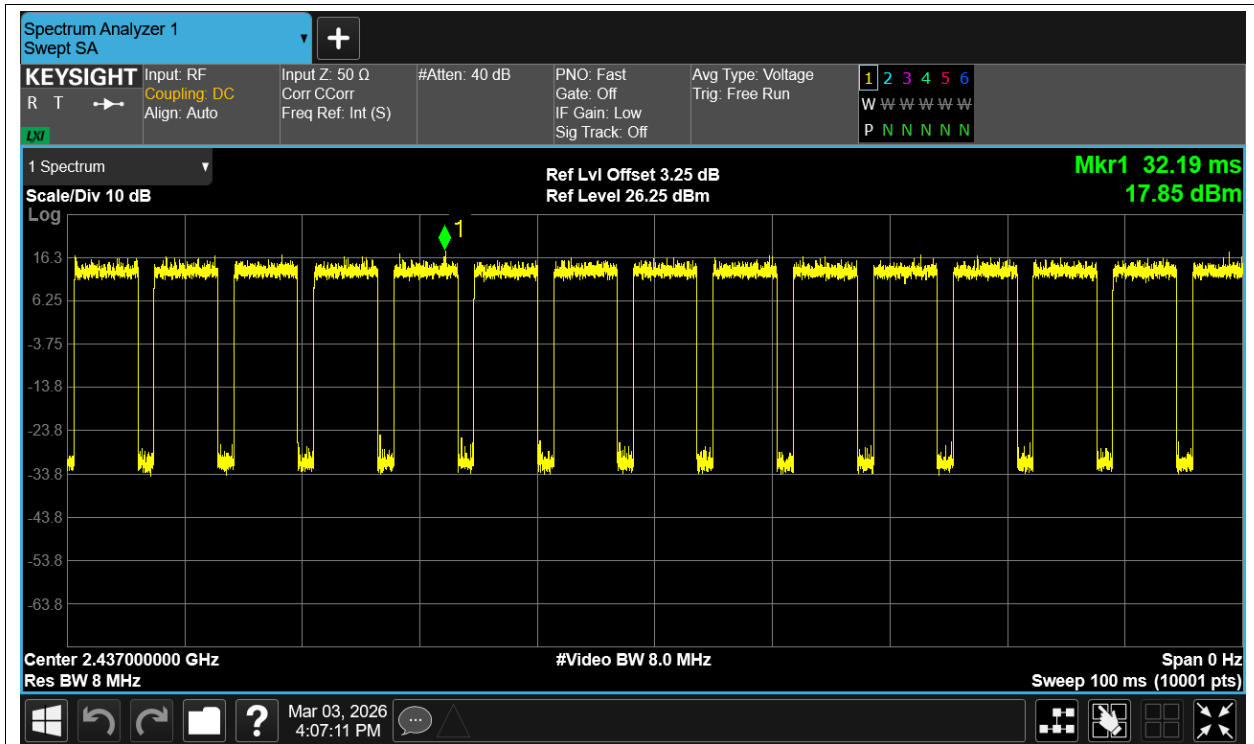
Duty Cycle NVNT n20 2462MHz Sum



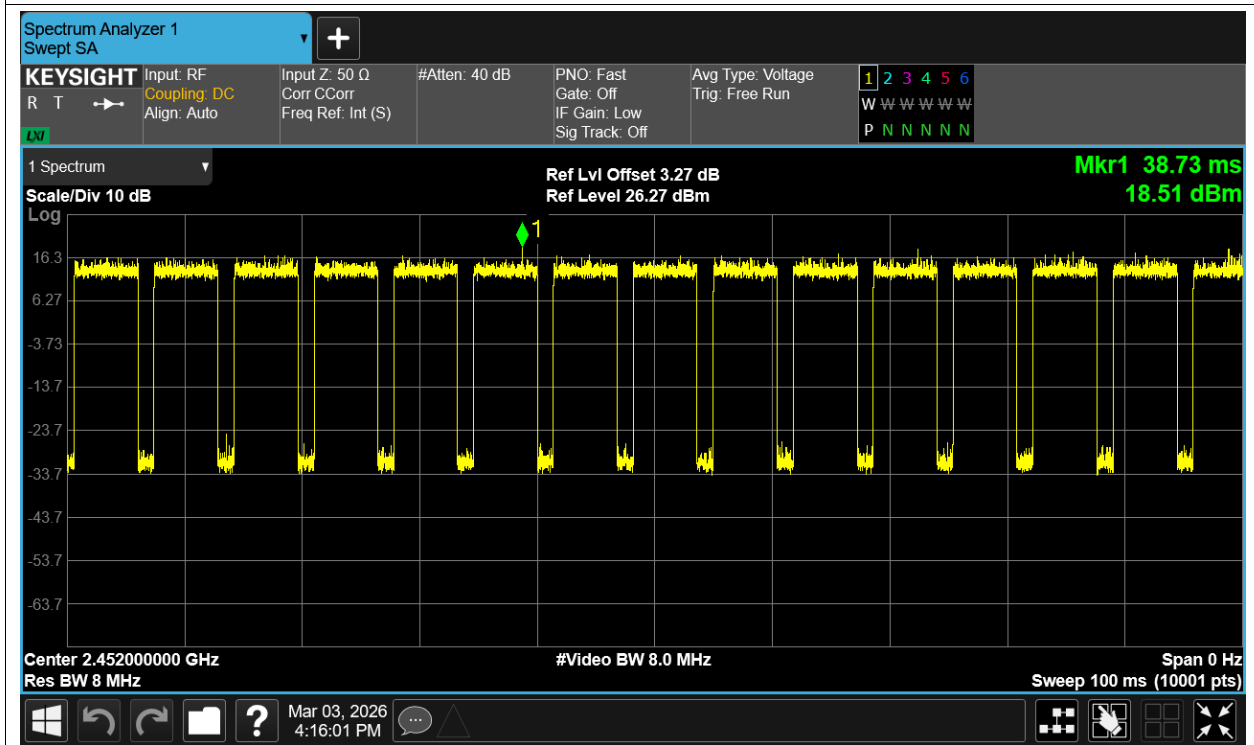
Duty Cycle NVNT n40 2422MHz Sum



Duty Cycle NVNT n40 2437MHz Sum



Duty Cycle NVNT n40 2452MHz Sum



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	24.09	1.71	25.80	30	Pass
NVNT	b	2437	Ant1	24.17	1.7	25.87	30	Pass
NVNT	b	2462	Ant1	24.28	1.7	25.98	30	Pass
NVNT	b	2412	Ant2	23.82	1.71	25.53	30	Pass
NVNT	b	2437	Ant2	23.81	1.71	25.52	30	Pass
NVNT	b	2462	Ant2	23.93	1.71	25.64	30	Pass
NVNT	b	2412	Ant3	24.16	1.72	25.88	30	Pass
NVNT	b	2437	Ant3	23.85	1.71	25.56	30	Pass
NVNT	b	2462	Ant3	24.08	1.7	25.78	30	Pass
NVNT	b	2412	Ant4	24.07	1.75	25.82	30	Pass
NVNT	b	2437	Ant4	24.2	1.7	25.9	30	Pass
NVNT	b	2462	Ant4	24.21	1.71	25.92	30	Pass
NVNT	g	2412	Ant1	22.27	0.21	22.48	30	Pass
NVNT	g	2437	Ant1	22.2	0.21	22.41	30	Pass
NVNT	g	2462	Ant1	22.36	0.23	22.59	30	Pass
NVNT	g	2412	Ant2	22.03	0.23	22.26	30	Pass
NVNT	g	2437	Ant2	21.81	0.22	22.03	30	Pass
NVNT	g	2462	Ant2	21.91	0.21	22.12	30	Pass
NVNT	g	2412	Ant3	22.15	0.21	22.36	30	Pass
NVNT	g	2437	Ant3	22.05	0.21	22.26	30	Pass
NVNT	g	2462	Ant3	22.14	0.22	22.36	30	Pass
NVNT	g	2412	Ant4	22.09	0.22	22.31	30	Pass
NVNT	g	2437	Ant4	22.3	0.23	22.53	30	Pass
NVNT	g	2462	Ant4	22.33	0.24	22.57	30	Pass
NVNT	ax20	2412	Ant1	15.4	0.92	16.32	25.98	Pass
NVNT	ax20	2412	Ant2	15.49	0.92	16.41	25.98	Pass
NVNT	ax20	2412	Ant3	15.23	0.92	16.15	25.98	Pass
NVNT	ax20	2412	Ant4	15.38	0.92	16.3	25.98	Pass
NVNT	ax20	2412	Sum	21.397	0.92	22.317	25.98	Pass
NVNT	ax20	2437	Ant1	15.69	0.98	16.67	25.98	Pass
NVNT	ax20	2437	Ant2	15.31	0.98	16.29	25.98	Pass
NVNT	ax20	2437	Ant3	14.95	0.98	15.93	25.98	Pass
NVNT	ax20	2437	Ant4	15.62	0.98	16.6	25.98	Pass
NVNT	ax20	2437	Sum	21.423	0.98	22.403	25.98	Pass
NVNT	ax20	2462	Ant1	15.88	0.99	16.87	25.98	Pass
NVNT	ax20	2462	Ant2	15.95	0.99	16.94	25.98	Pass
NVNT	ax20	2462	Ant3	15.51	0.99	16.5	25.98	Pass
NVNT	ax20	2462	Ant4	15.87	0.99	16.86	25.98	Pass
NVNT	ax20	2462	Sum	21.826	0.99	22.816	25.98	Pass
NVNT	ax40	2422	Ant1	12.67	0.99	13.66	25.98	Pass

NVNT	ax40	2422	Ant2	12.77	0.99	13.76	25.98	Pass
NVNT	ax40	2422	Ant3	12.55	0.99	13.54	25.98	Pass
NVNT	ax40	2422	Ant4	12.66	0.99	13.65	25.98	Pass
NVNT	ax40	2422	Sum	18.684	0.99	19.674	25.98	Pass
NVNT	ax40	2437	Ant1	12.95	1	13.95	25.98	Pass
NVNT	ax40	2437	Ant2	12.54	1	13.54	25.98	Pass
NVNT	ax40	2437	Ant3	12.16	1	13.16	25.98	Pass
NVNT	ax40	2437	Ant4	12.75	1	13.75	25.98	Pass
NVNT	ax40	2437	Sum	18.63	1	19.63	25.98	Pass
NVNT	ax40	2452	Ant1	13.27	0.98	14.25	25.98	Pass
NVNT	ax40	2452	Ant2	12.93	0.98	13.91	25.98	Pass
NVNT	ax40	2452	Ant3	12.69	0.98	13.67	25.98	Pass
NVNT	ax40	2452	Ant4	12.96	0.98	13.94	25.98	Pass
NVNT	ax40	2452	Sum	18.988	0.98	19.968	25.98	Pass
NVNT	n20	2412	Ant1	17.05	0.99	18.04	25.98	Pass
NVNT	n20	2412	Ant2	17.13	0.99	18.12	25.98	Pass
NVNT	n20	2412	Ant3	16.88	0.99	17.87	25.98	Pass
NVNT	n20	2412	Ant4	16.95	0.99	17.94	25.98	Pass
NVNT	n20	2412	Sum	23.024	0.99	24.014	25.98	Pass
NVNT	n20	2437	Ant1	17.12	0.99	18.11	25.98	Pass
NVNT	n20	2437	Ant2	16.94	0.99	17.93	25.98	Pass
NVNT	n20	2437	Ant3	16.51	0.99	17.5	25.98	Pass
NVNT	n20	2437	Ant4	16.97	0.99	17.96	25.98	Pass
NVNT	n20	2437	Sum	22.911	0.99	23.901	25.98	Pass
NVNT	n20	2462	Ant1	17.37	0.99	18.36	25.98	Pass
NVNT	n20	2462	Ant2	17.66	0.99	18.65	25.98	Pass
NVNT	n20	2462	Ant3	17.26	0.99	18.25	25.98	Pass
NVNT	n20	2462	Ant4	17.3	0.99	18.29	25.98	Pass
NVNT	n20	2462	Sum	23.421	0.99	24.411	25.98	Pass
NVNT	n40	2422	Ant1	12.57	0.99	13.56	25.98	Pass
NVNT	n40	2422	Ant2	12.65	0.99	13.64	25.98	Pass
NVNT	n40	2422	Ant3	12.44	0.99	13.43	25.98	Pass
NVNT	n40	2422	Ant4	12.4	0.99	13.39	25.98	Pass
NVNT	n40	2422	Sum	18.537	0.99	19.527	25.98	Pass
NVNT	n40	2437	Ant1	12.8	0.95	13.75	25.98	Pass
NVNT	n40	2437	Ant2	12.42	0.95	13.37	25.98	Pass
NVNT	n40	2437	Ant3	12.02	0.95	12.97	25.98	Pass
NVNT	n40	2437	Ant4	12.48	0.95	13.43	25.98	Pass
NVNT	n40	2437	Sum	18.459	0.95	19.409	25.98	Pass
NVNT	n40	2452	Ant1	13.11	0.95	14.06	25.98	Pass
NVNT	n40	2452	Ant2	12.9	0.95	13.85	25.98	Pass
NVNT	n40	2452	Ant3	12.67	0.95	13.62	25.98	Pass
NVNT	n40	2452	Ant4	12.79	0.95	13.74	25.98	Pass
NVNT	n40	2452	Sum	18.891	0.95	19.841	25.98	Pass

Note: The limits need reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For MIMO mode: ant gain is $4+10*\log_{10}(4) = 4+6.02=10.02$ dBi, the limit is $30-(10.02-6) = 25.98$ dbm.

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit (MHz)	Verdic
NVNT	b	2412	Ant1	8.099	0.5	Pass
NVNT	b	2437	Ant1	8.101	0.5	Pass
NVNT	b	2462	Ant1	8.039	0.5	Pass
NVNT	b	2412	Ant2	8.087	0.5	Pass
NVNT	b	2437	Ant2	8.076	0.5	Pass
NVNT	b	2462	Ant2	8.101	0.5	Pass
NVNT	b	2412	Ant3	8.104	0.5	Pass
NVNT	b	2437	Ant3	8.107	0.5	Pass
NVNT	b	2462	Ant3	8.073	0.5	Pass
NVNT	b	2412	Ant4	8.089	0.5	Pass
NVNT	b	2437	Ant4	8.12	0.5	Pass
NVNT	b	2462	Ant4	8.098	0.5	Pass
NVNT	g	2412	Ant1	16.295	0.5	Pass
NVNT	g	2437	Ant1	16.238	0.5	Pass
NVNT	g	2462	Ant1	16.342	0.5	Pass
NVNT	g	2412	Ant2	16.308	0.5	Pass
NVNT	g	2437	Ant2	16.258	0.5	Pass
NVNT	g	2462	Ant2	16.351	0.5	Pass
NVNT	g	2412	Ant3	16.315	0.5	Pass
NVNT	g	2437	Ant3	16.332	0.5	Pass
NVNT	g	2462	Ant3	16.29	0.5	Pass
NVNT	g	2412	Ant4	16.293	0.5	Pass
NVNT	g	2437	Ant4	16.284	0.5	Pass
NVNT	g	2462	Ant4	16.326	0.5	Pass
NVNT	ax20	2412	Ant1	18.907	0.5	Pass
NVNT	ax20	2412	Ant2	18.947	0.5	Pass
NVNT	ax20	2412	Ant3	18.996	0.5	Pass
NVNT	ax20	2412	Ant4	18.704	0.5	Pass
NVNT	ax20	2437	Ant1	18.895	0.5	Pass
NVNT	ax20	2437	Ant2	18.974	0.5	Pass
NVNT	ax20	2437	Ant3	18.824	0.5	Pass
NVNT	ax20	2437	Ant4	18.909	0.5	Pass
NVNT	ax20	2462	Ant1	18.974	0.5	Pass
NVNT	ax20	2462	Ant2	18.954	0.5	Pass
NVNT	ax20	2462	Ant3	18.788	0.5	Pass
NVNT	ax20	2462	Ant4	18.983	0.5	Pass
NVNT	ax40	2422	Ant1	37.834	0.5	Pass
NVNT	ax40	2422	Ant2	37.683	0.5	Pass
NVNT	ax40	2422	Ant3	37.516	0.5	Pass
NVNT	ax40	2422	Ant4	36.471	0.5	Pass
NVNT	ax40	2437	Ant1	37.268	0.5	Pass

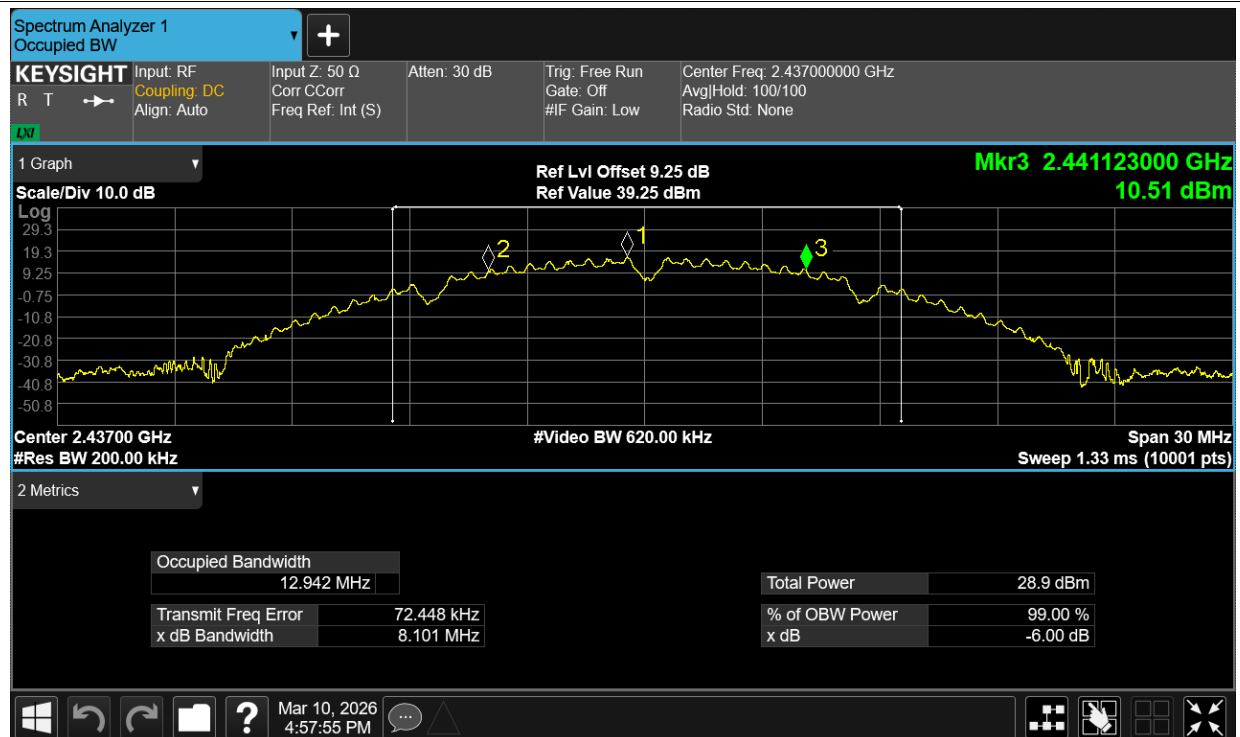
NVNT	ax40	2437	Ant2	37.818	0.5	Pass
NVNT	ax40	2437	Ant3	37.46	0.5	Pass
NVNT	ax40	2437	Ant4	35.772	0.5	Pass
NVNT	ax40	2452	Ant1	37.214	0.5	Pass
NVNT	ax40	2452	Ant2	37.456	0.5	Pass
NVNT	ax40	2452	Ant3	37.193	0.5	Pass
NVNT	ax40	2452	Ant4	37.681	0.5	Pass
NVNT	n20	2412	Ant1	17.516	0.5	Pass
NVNT	n20	2412	Ant2	17.456	0.5	Pass
NVNT	n20	2412	Ant3	17.561	0.5	Pass
NVNT	n20	2412	Ant4	17.568	0.5	Pass
NVNT	n20	2437	Ant1	17.522	0.5	Pass
NVNT	n20	2437	Ant2	17.58	0.5	Pass
NVNT	n20	2437	Ant3	17.535	0.5	Pass
NVNT	n20	2437	Ant4	17.584	0.5	Pass
NVNT	n20	2462	Ant1	17.332	0.5	Pass
NVNT	n20	2462	Ant2	17.535	0.5	Pass
NVNT	n20	2462	Ant3	17.561	0.5	Pass
NVNT	n20	2462	Ant4	17.573	0.5	Pass
NVNT	n40	2422	Ant1	35.948	0.5	Pass
NVNT	n40	2422	Ant2	35.965	0.5	Pass
NVNT	n40	2422	Ant3	36.058	0.5	Pass
NVNT	n40	2422	Ant4	36.269	0.5	Pass
NVNT	n40	2437	Ant1	36.151	0.5	Pass
NVNT	n40	2437	Ant2	36.139	0.5	Pass
NVNT	n40	2437	Ant3	36.123	0.5	Pass
NVNT	n40	2437	Ant4	35.917	0.5	Pass
NVNT	n40	2452	Ant1	36.187	0.5	Pass
NVNT	n40	2452	Ant2	36.191	0.5	Pass
NVNT	n40	2452	Ant3	36.088	0.5	Pass
NVNT	n40	2452	Ant4	35.968	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT b 2412MHz Ant2



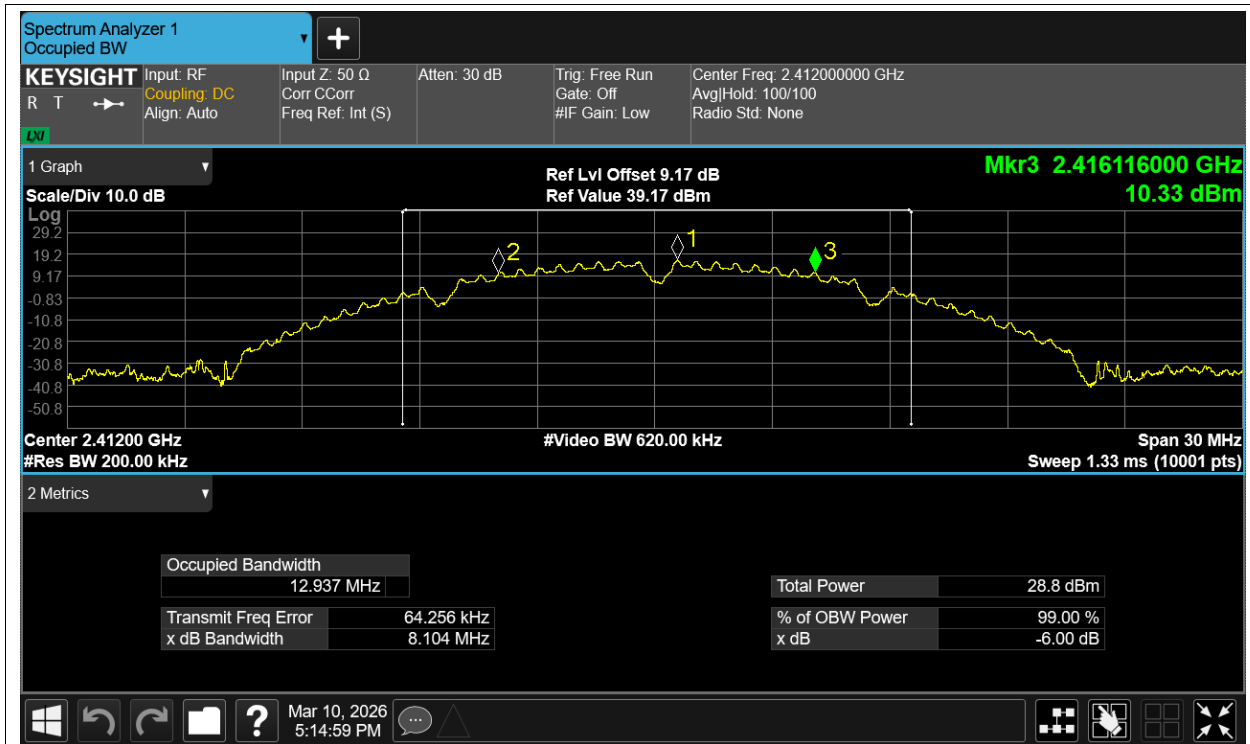
-6dB Bandwidth NVNT b 2437MHz Ant2



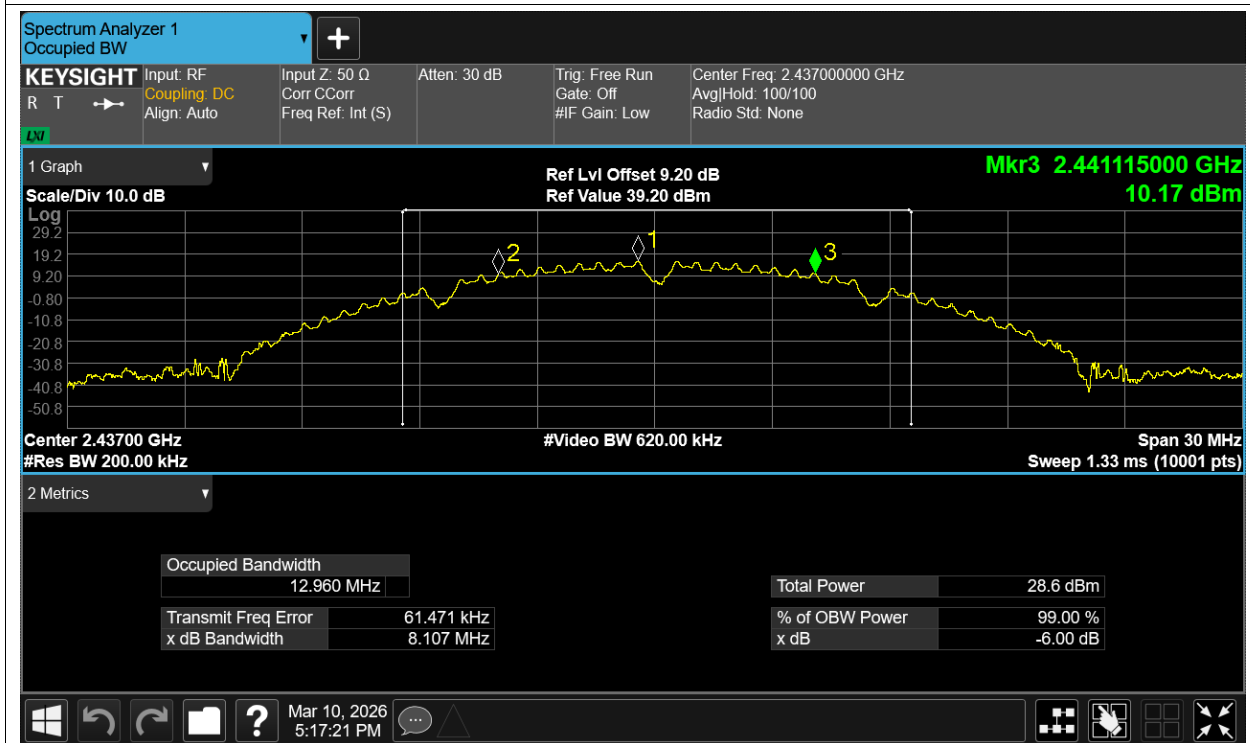
-6dB Bandwidth NVNT b 2462MHz Ant2



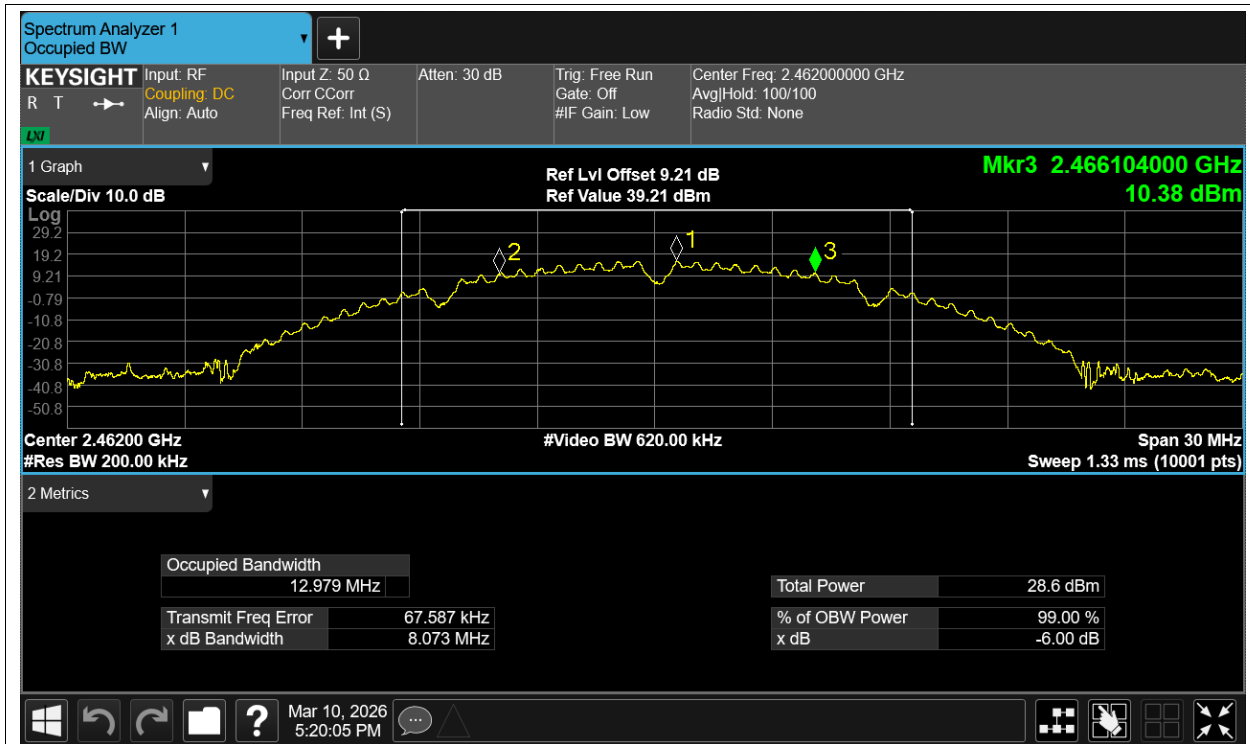
-6dB Bandwidth NVNT b 2412MHz Ant3



-6dB Bandwidth NVNT b 2437MHz Ant3



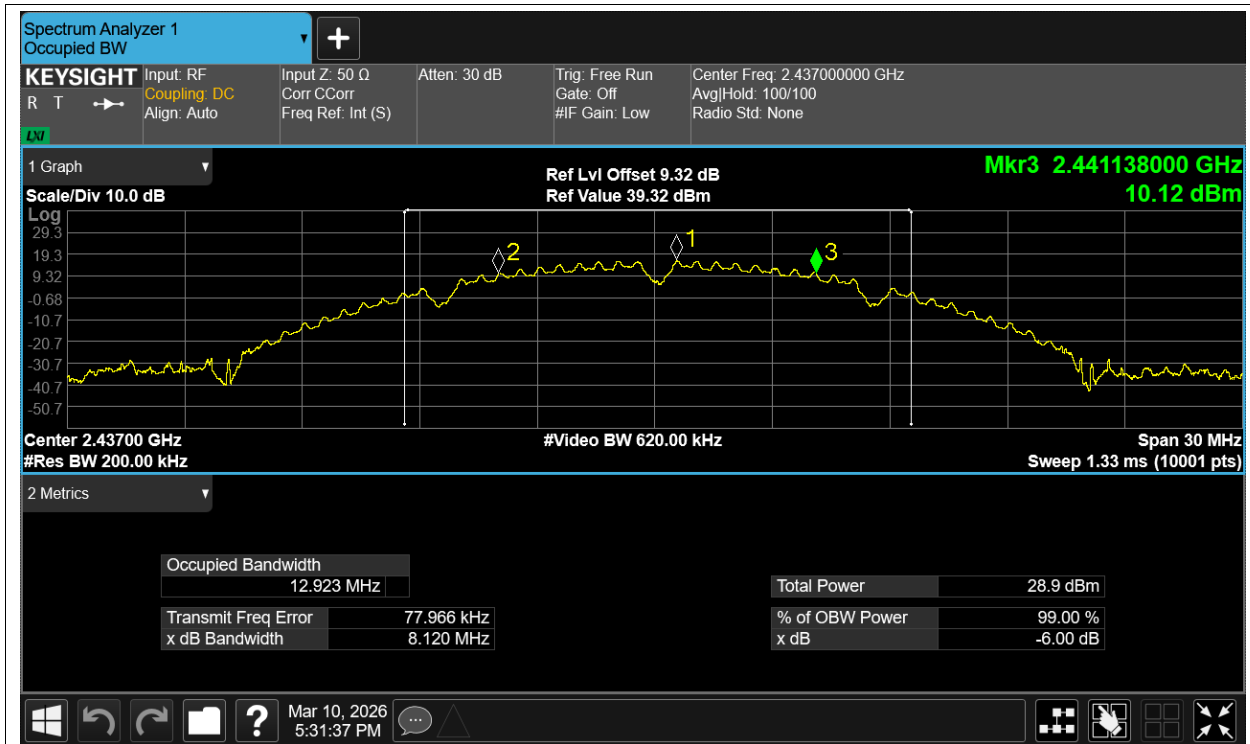
-6dB Bandwidth NVNT b 2462MHz Ant3



-6dB Bandwidth NVNT b 2412MHz Ant4



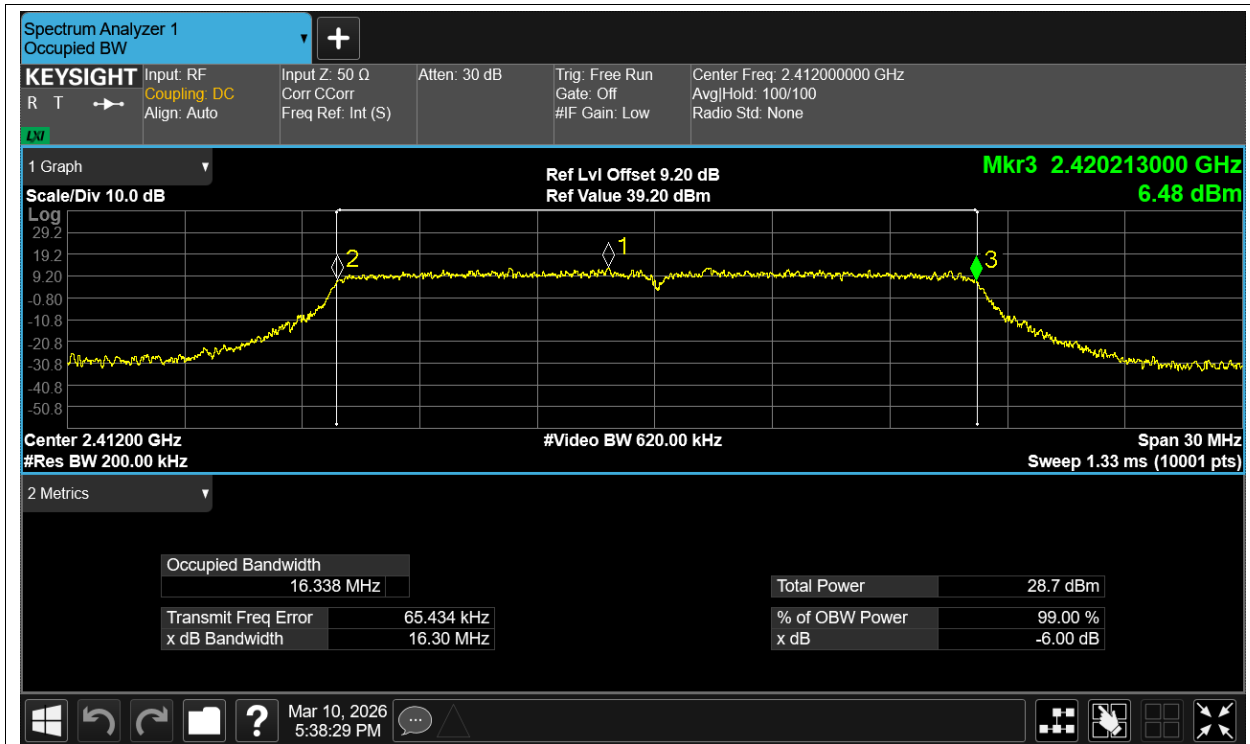
-6dB Bandwidth NVNT b 2437MHz Ant4



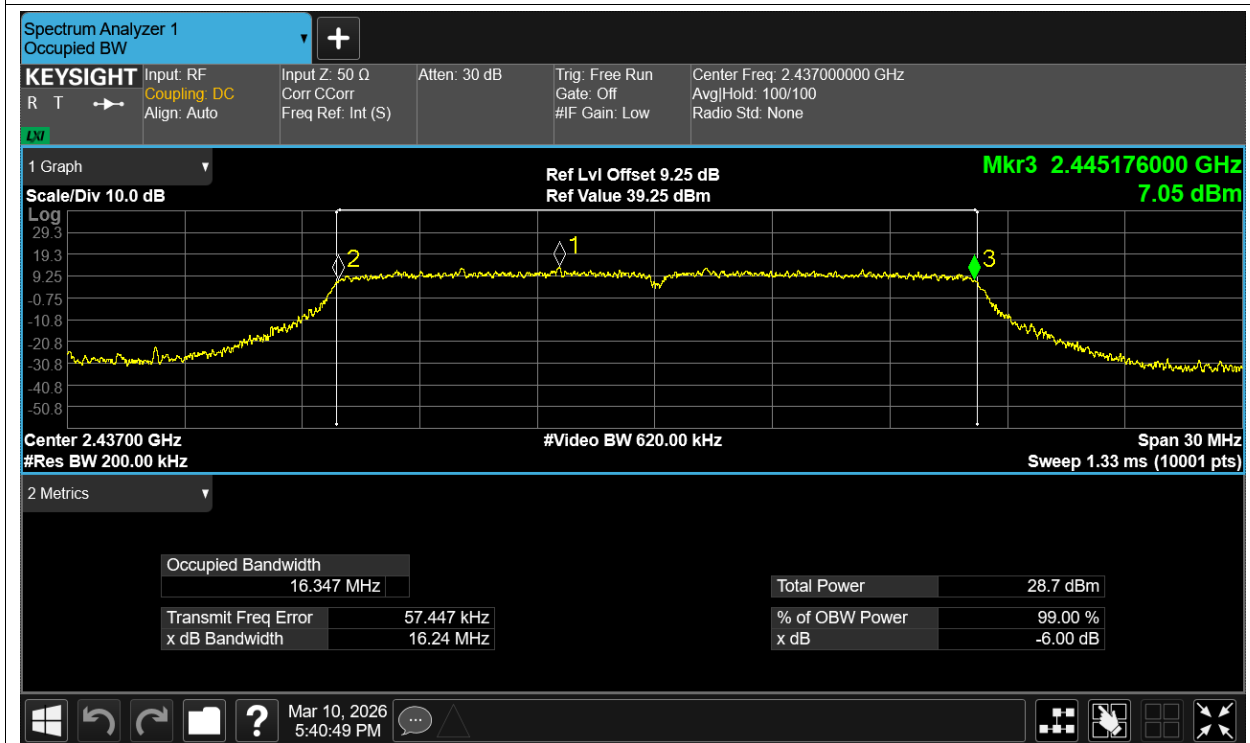
-6dB Bandwidth NVNT b 2462MHz Ant4



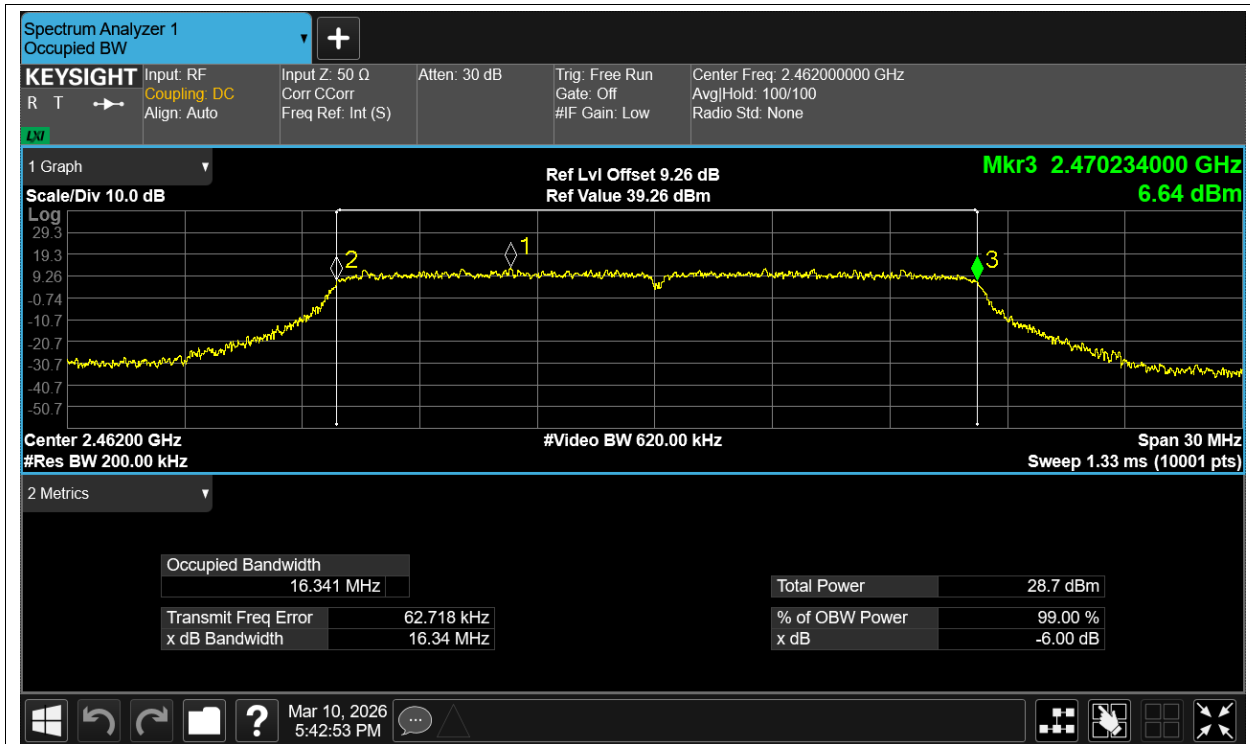
-6dB Bandwidth NVNT g 2412MHz Ant1



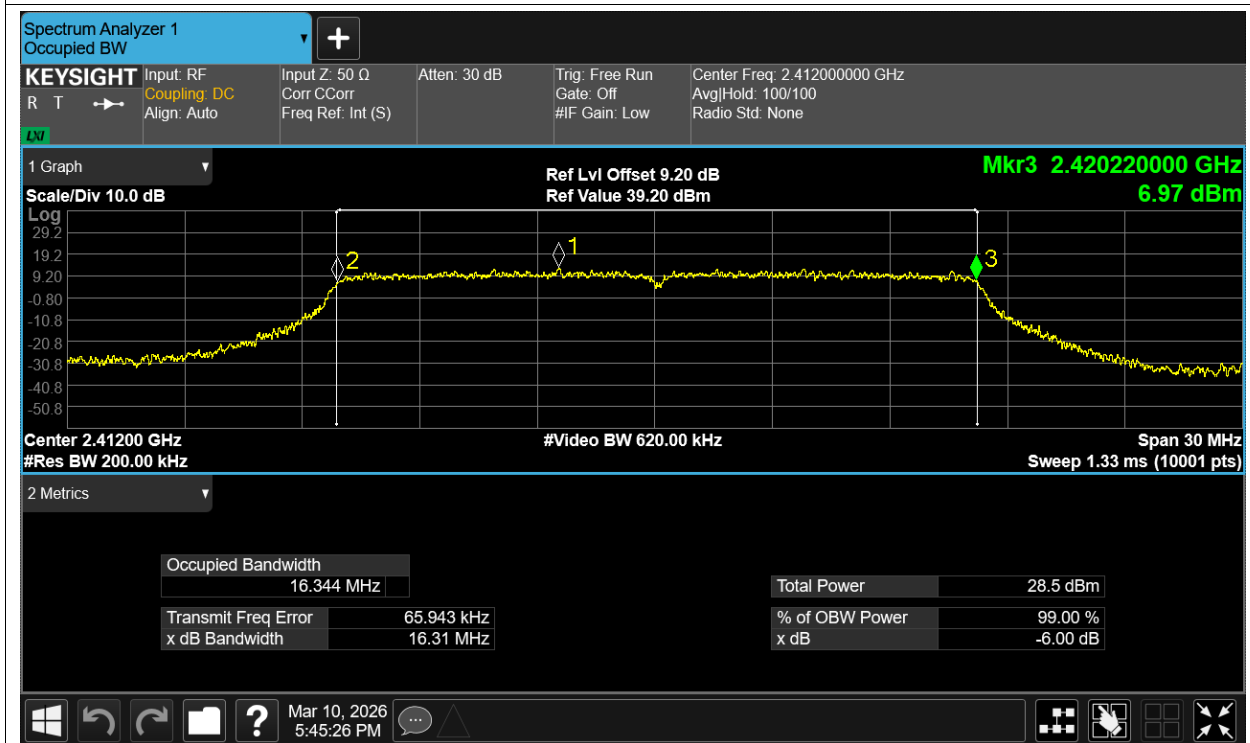
-6dB Bandwidth NVNT g 2437MHz Ant1



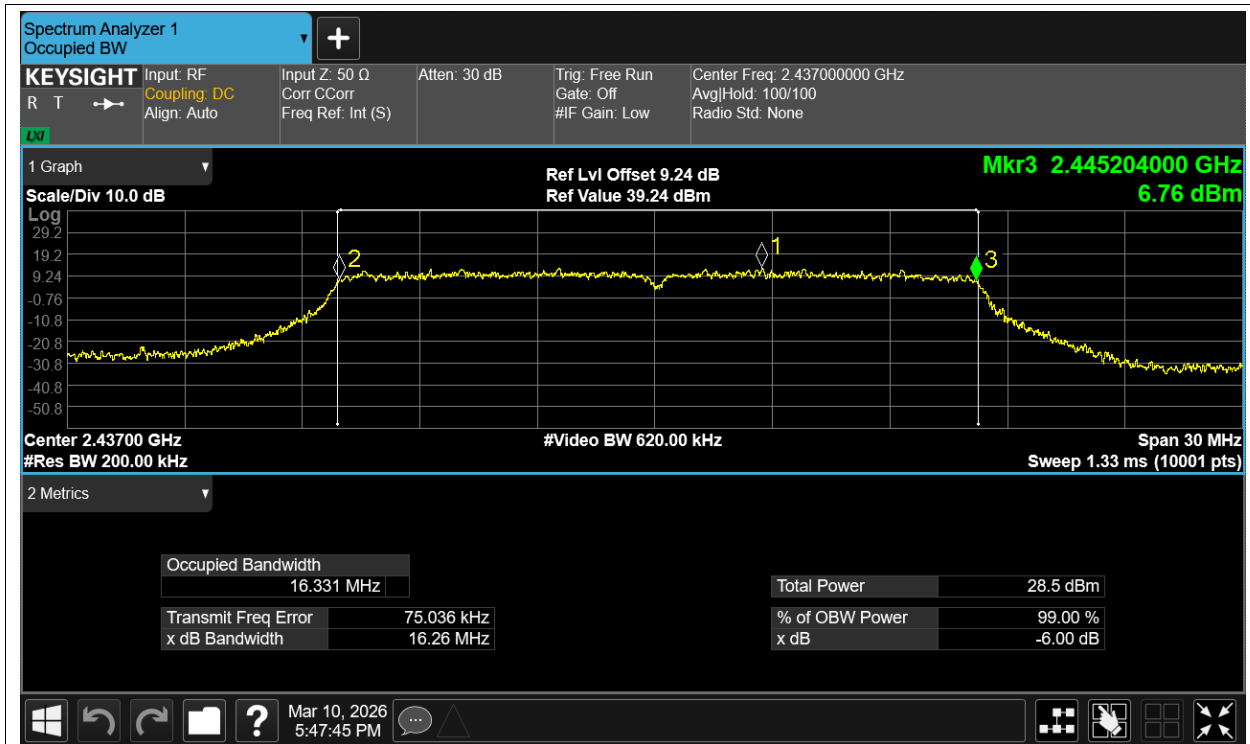
-6dB Bandwidth NVNT g 2462MHz Ant1



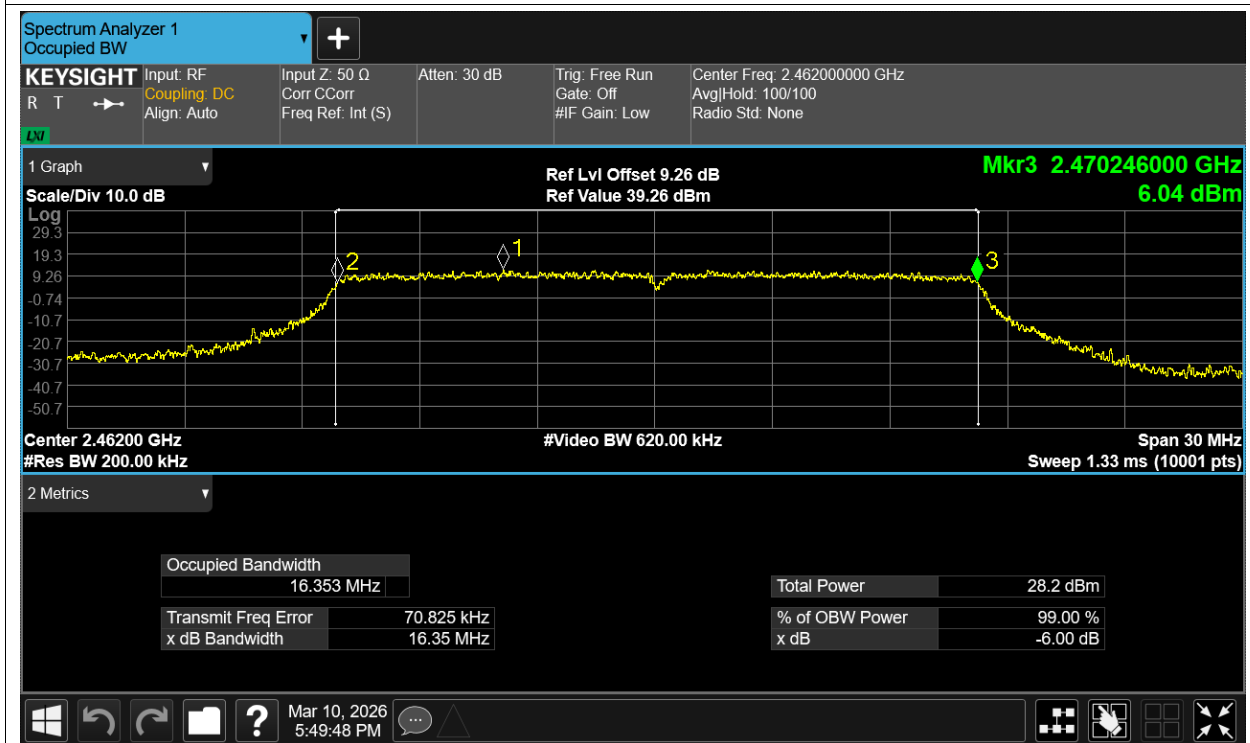
-6dB Bandwidth NVNT g 2412MHz Ant2



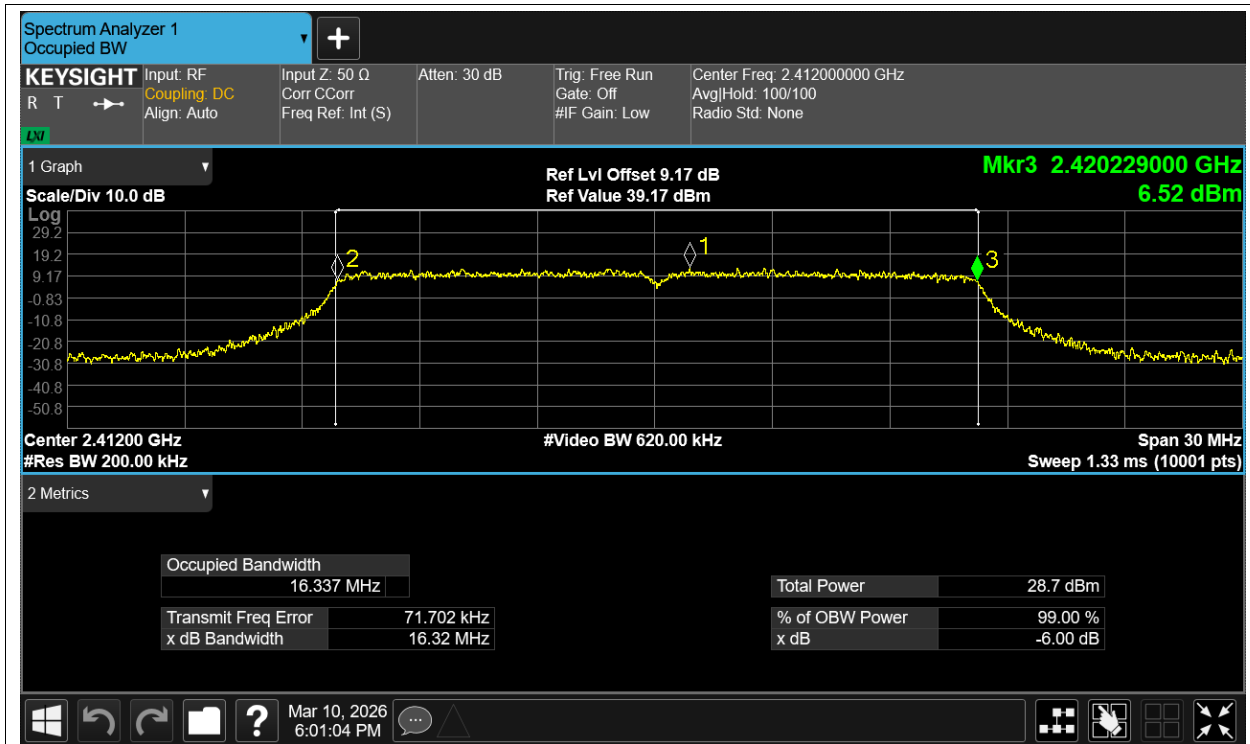
-6dB Bandwidth NVNT g 2437MHz Ant2



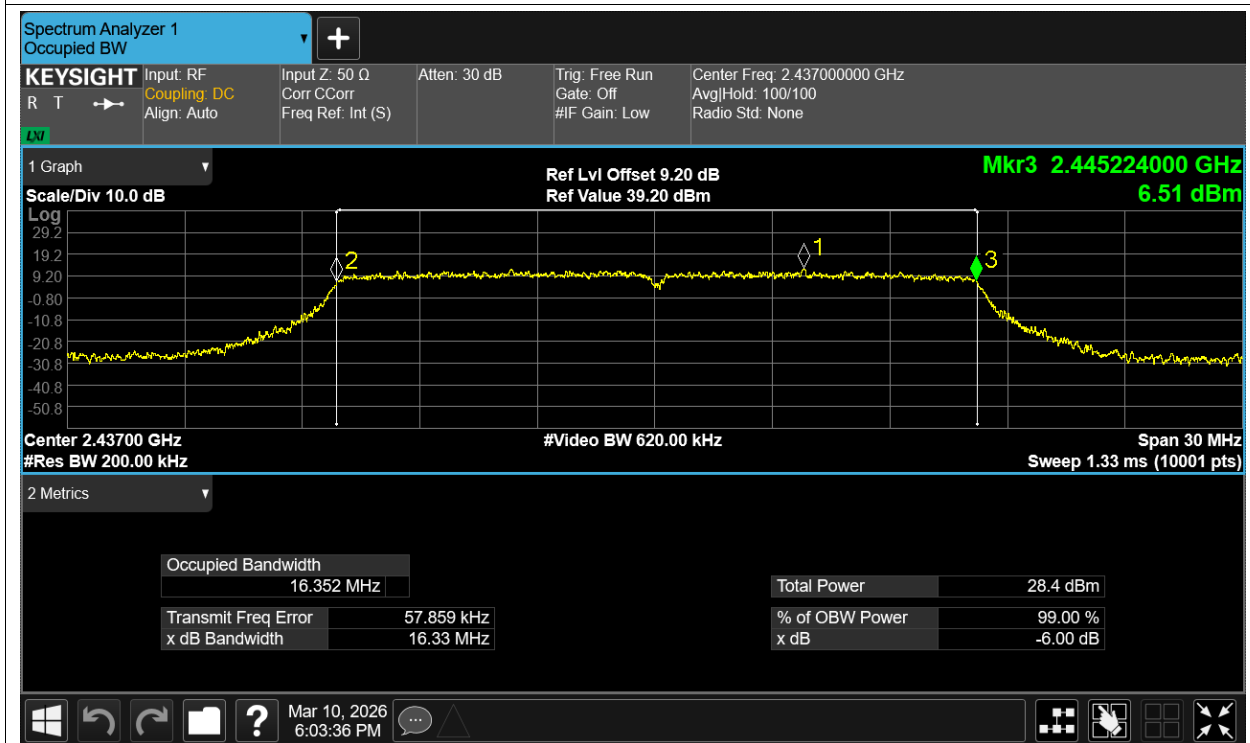
-6dB Bandwidth NVNT g 2462MHz Ant2



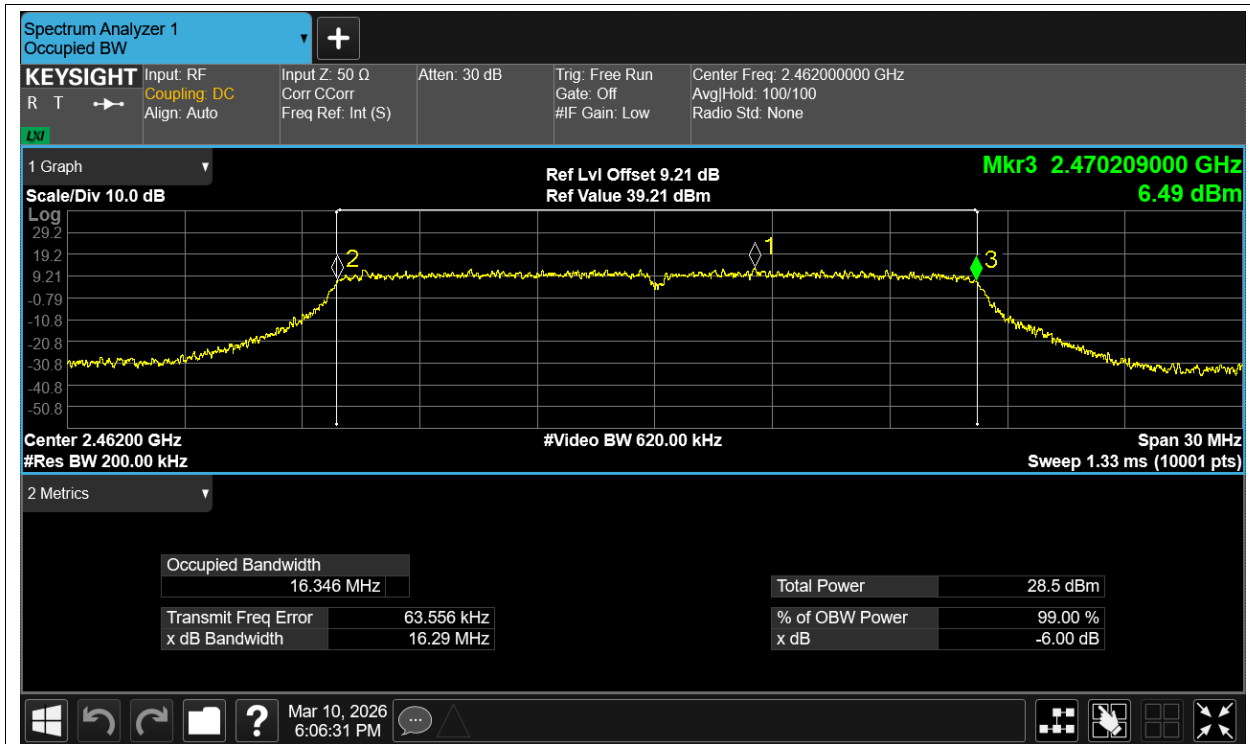
-6dB Bandwidth NVNT g 2412MHz Ant3



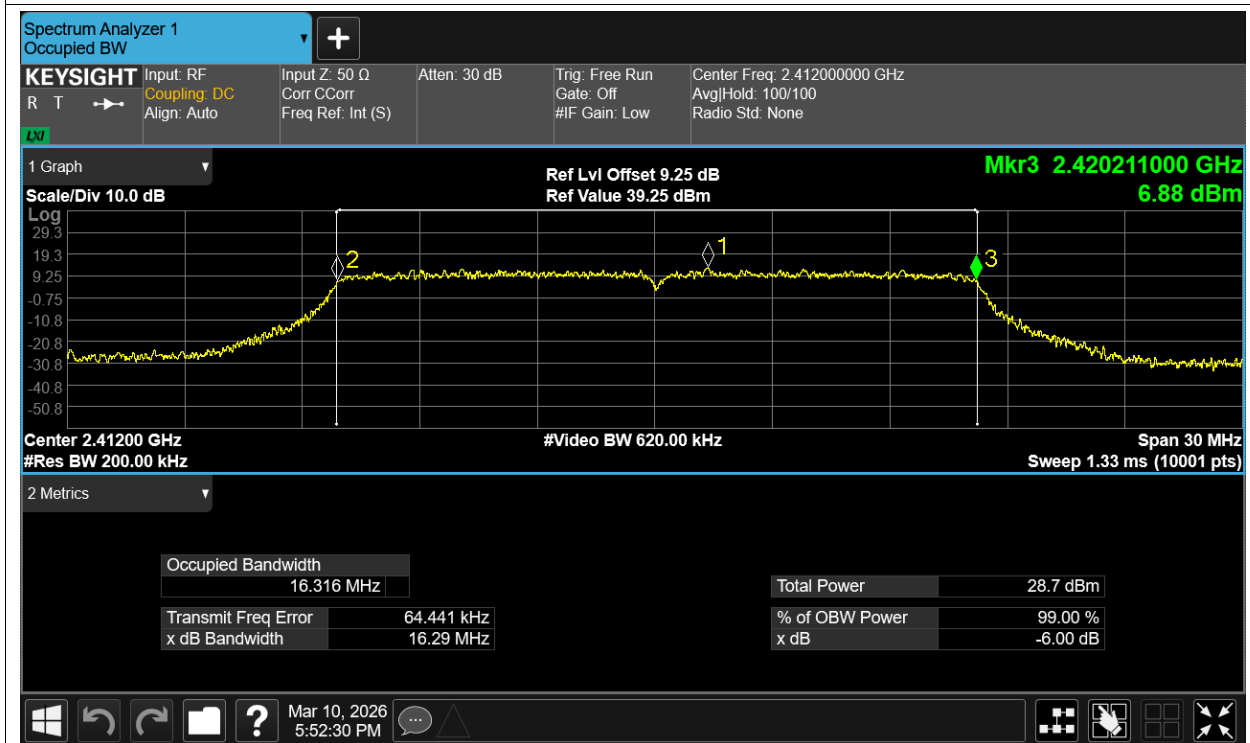
-6dB Bandwidth NVNT g 2437MHz Ant3



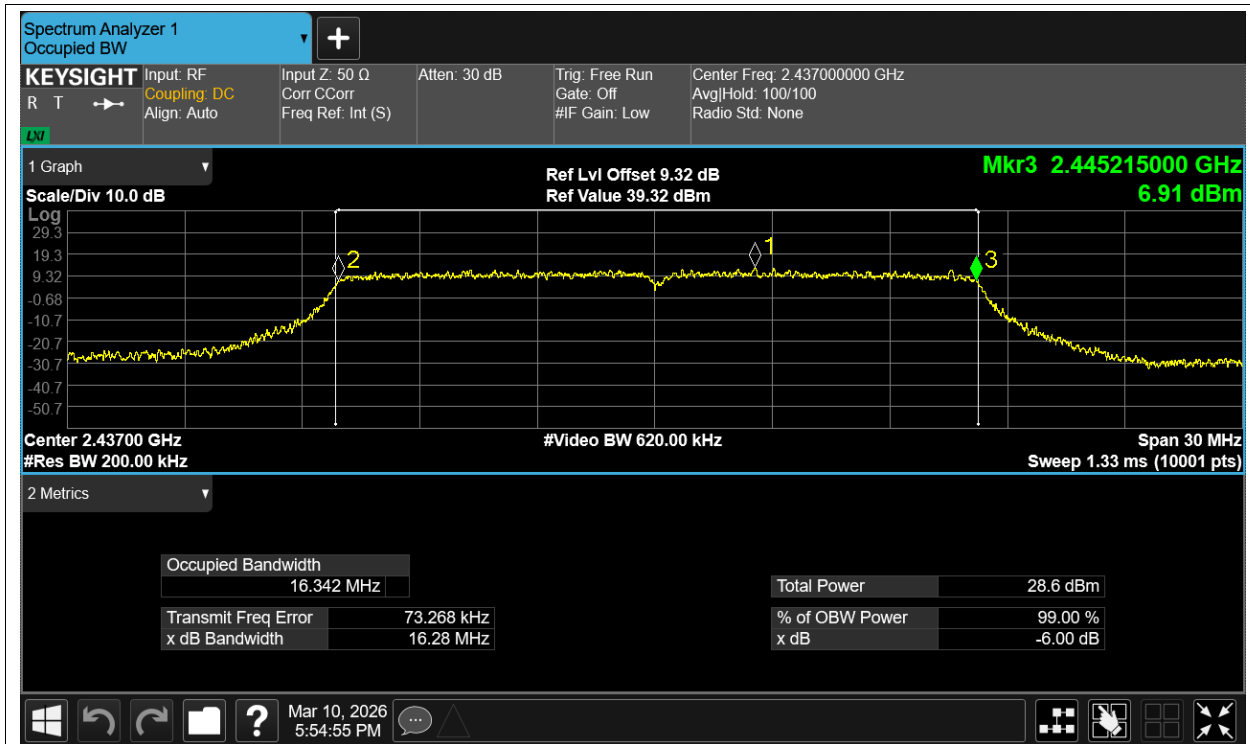
-6dB Bandwidth NVNT g 2462MHz Ant3



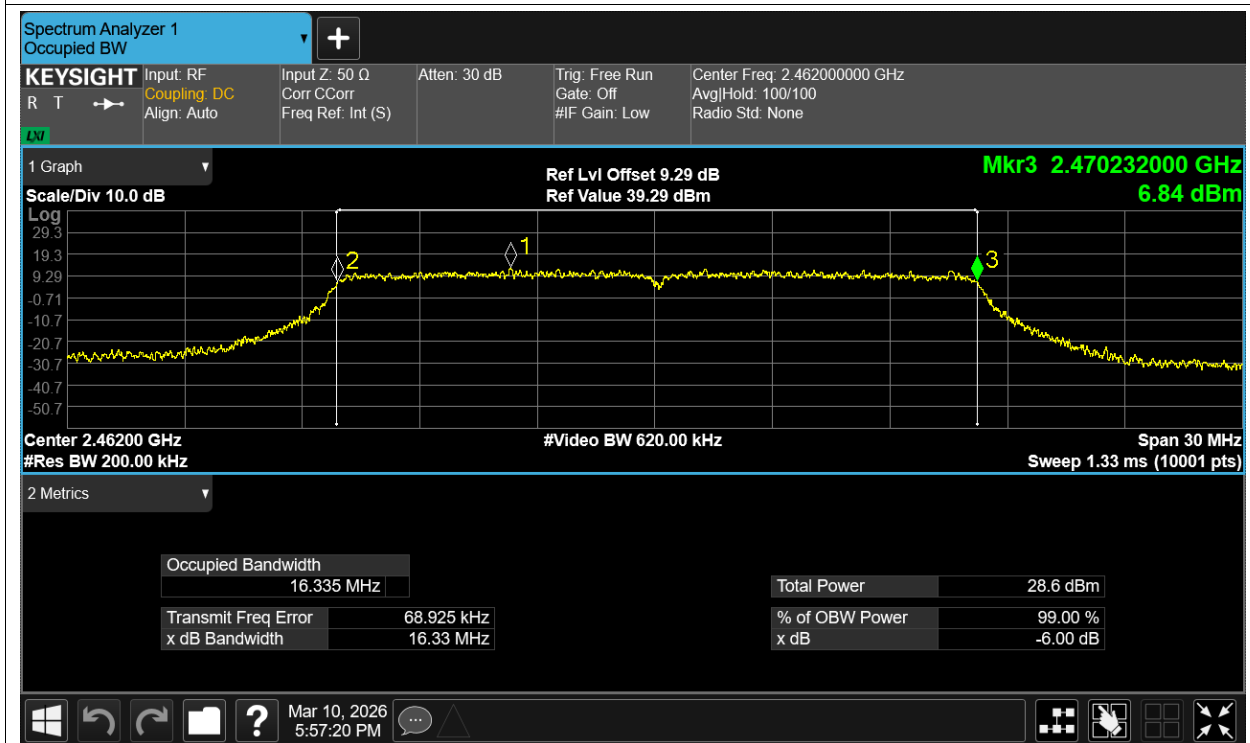
-6dB Bandwidth NVNT g 2412MHz Ant4



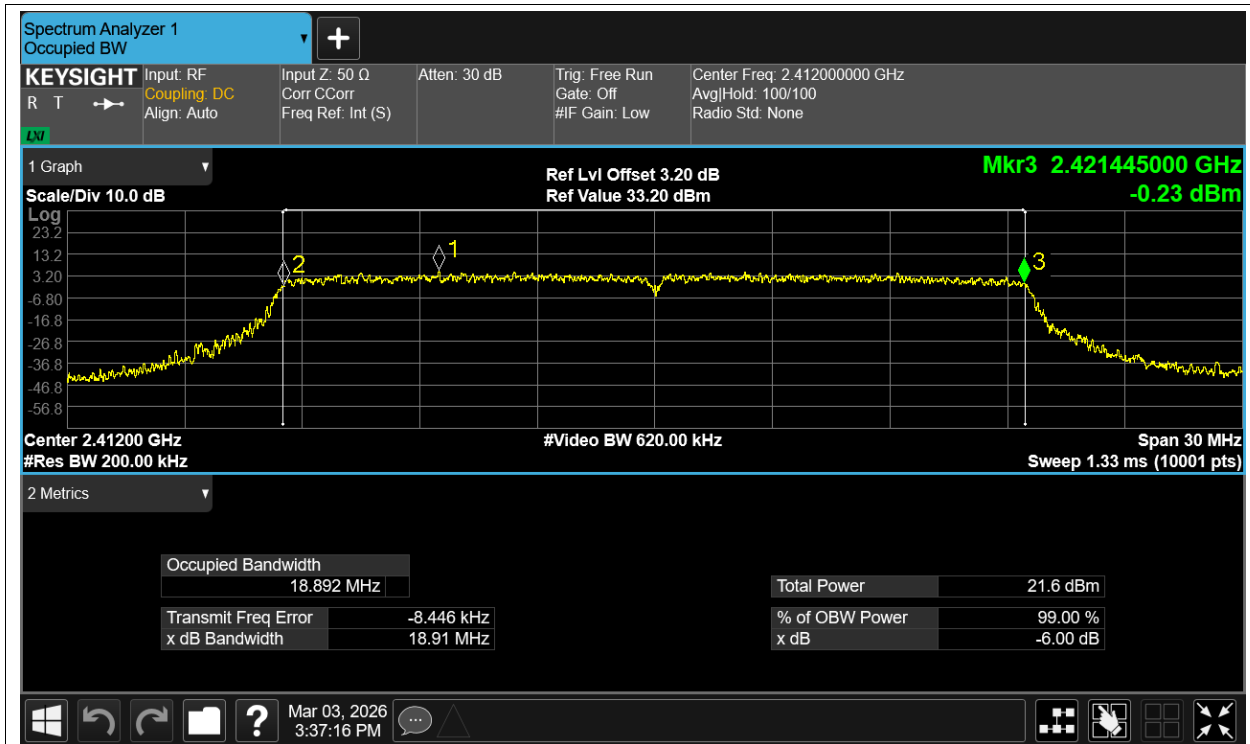
-6dB Bandwidth NVNT g 2437MHz Ant4



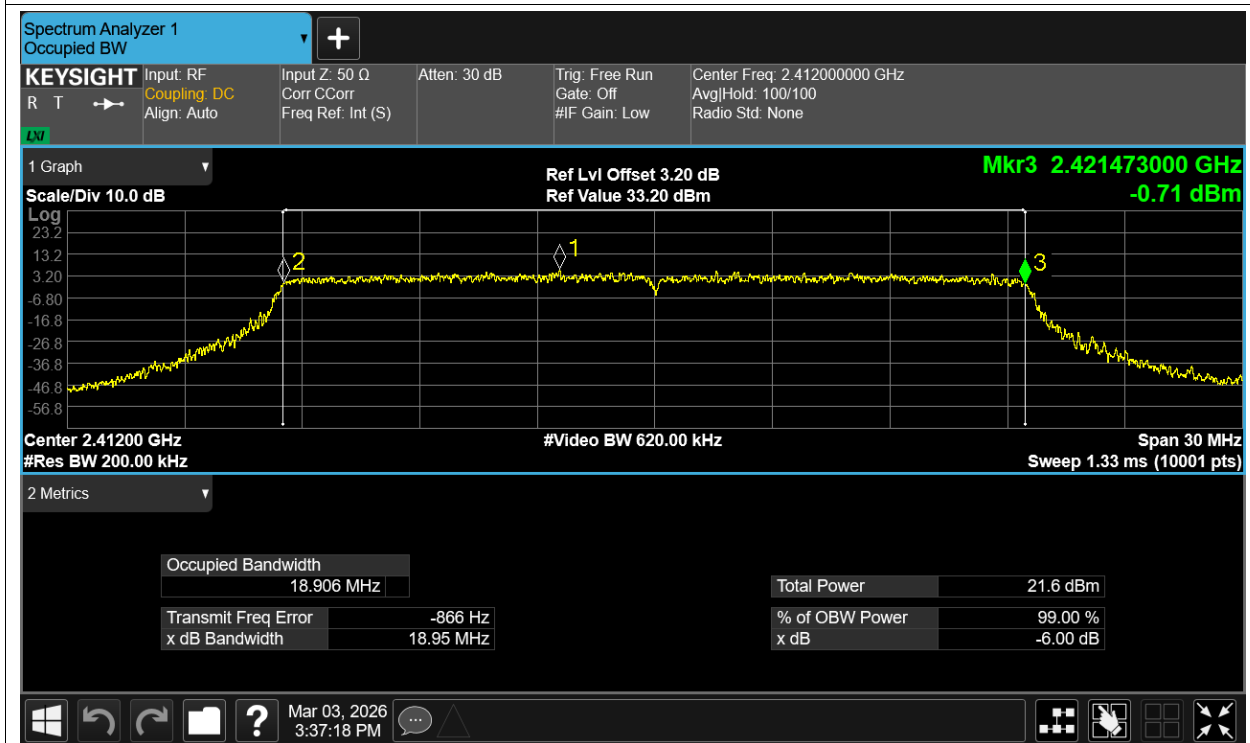
-6dB Bandwidth NVNT g 2462MHz Ant4



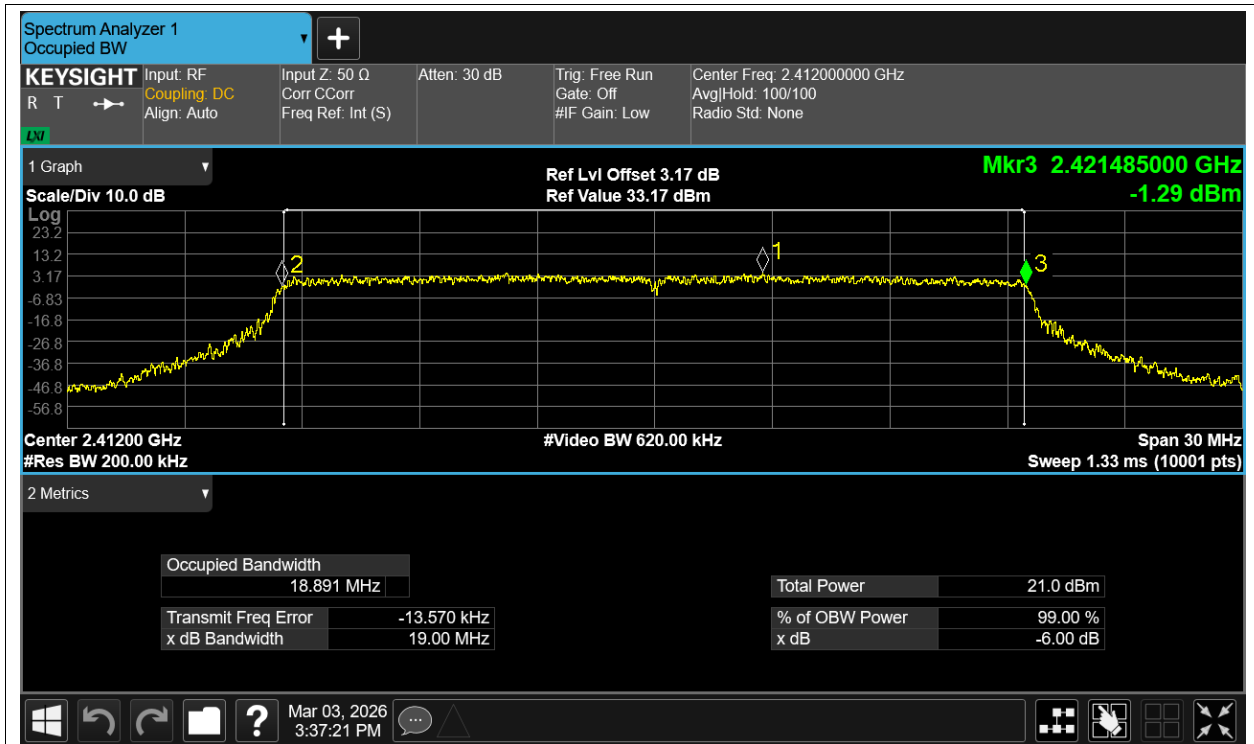
-6dB Bandwidth NVNT ax20 2412MHz Ant1



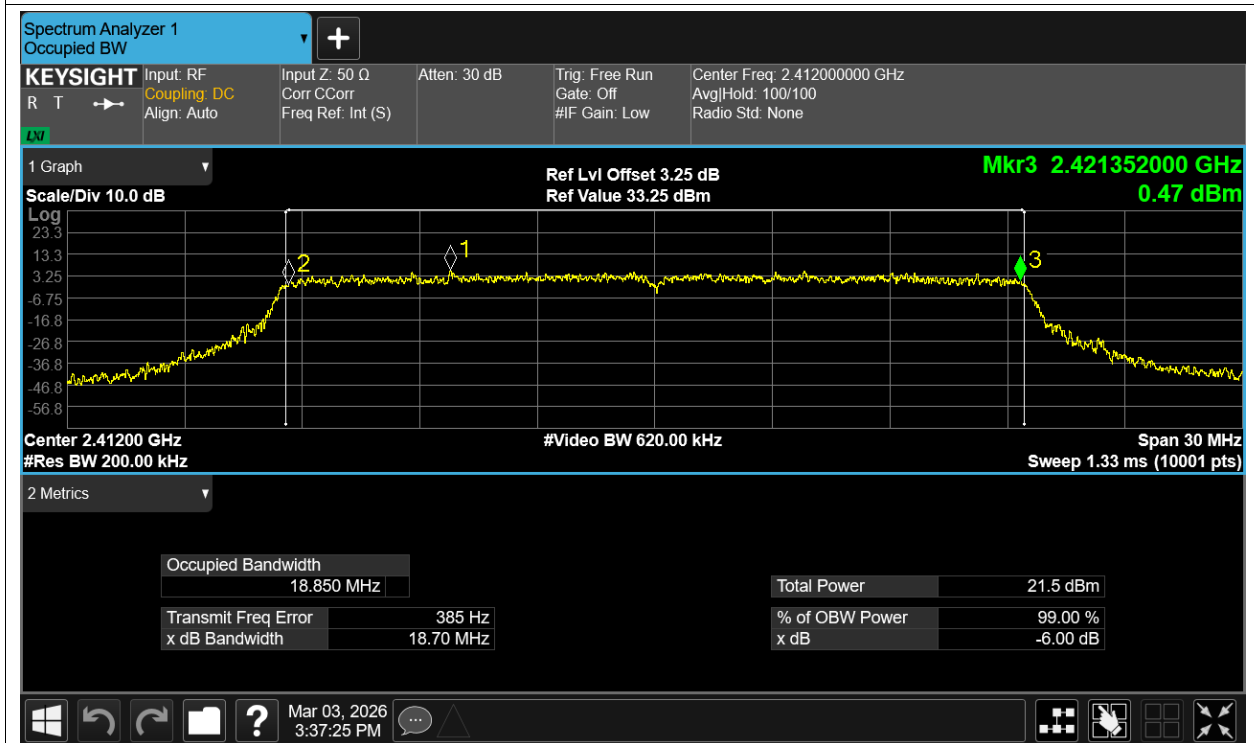
-6dB Bandwidth NVNT ax20 2412MHz Ant2



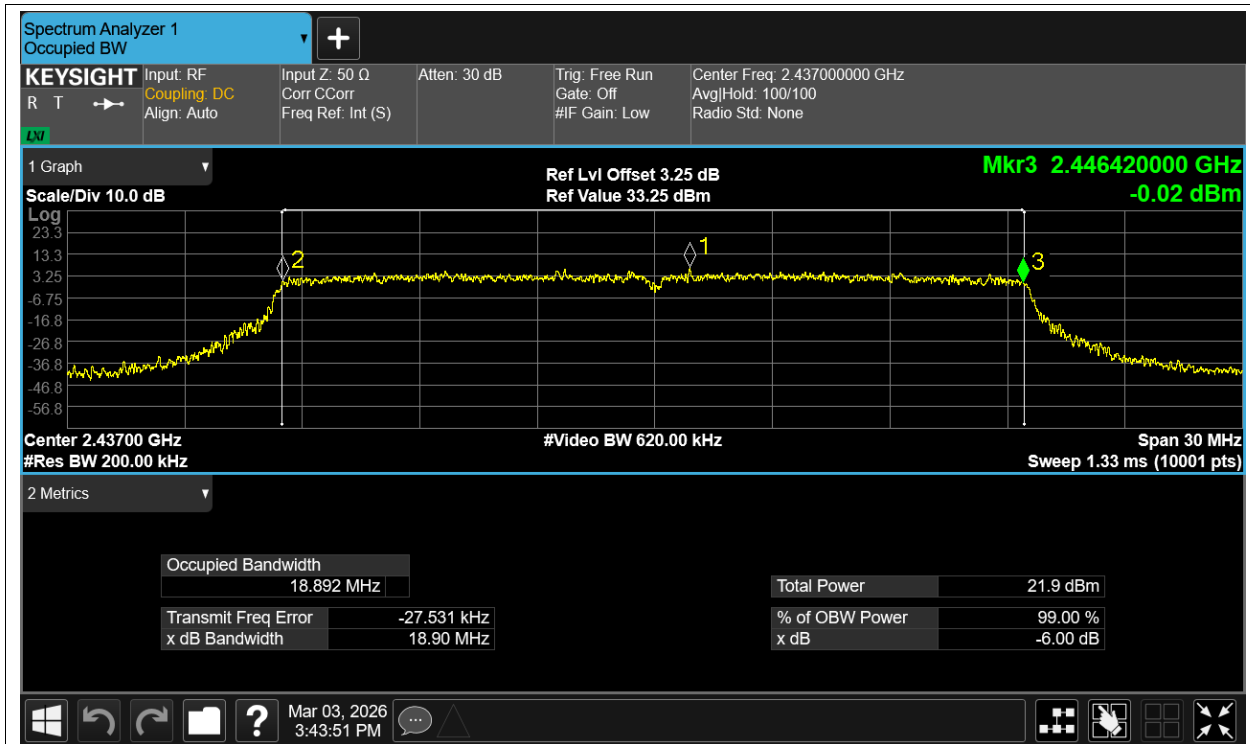
-6dB Bandwidth NVNT ax20 2412MHz Ant3



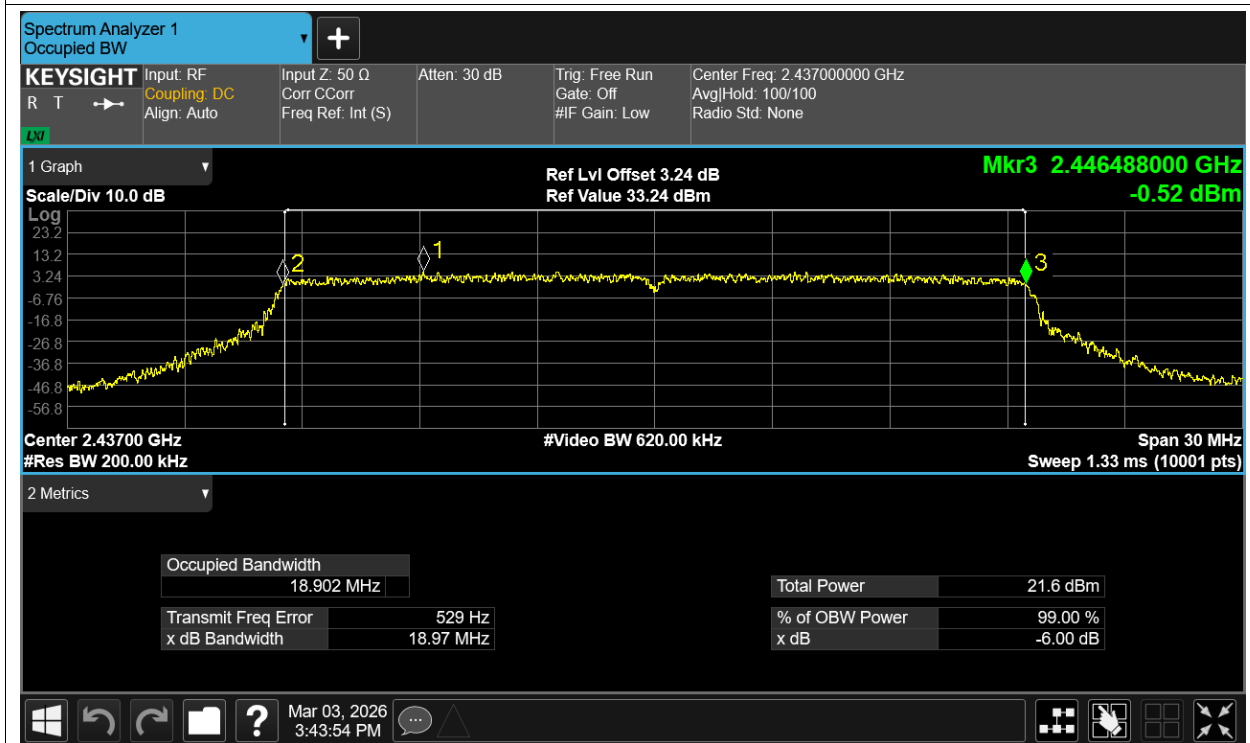
-6dB Bandwidth NVNT ax20 2412MHz Ant4



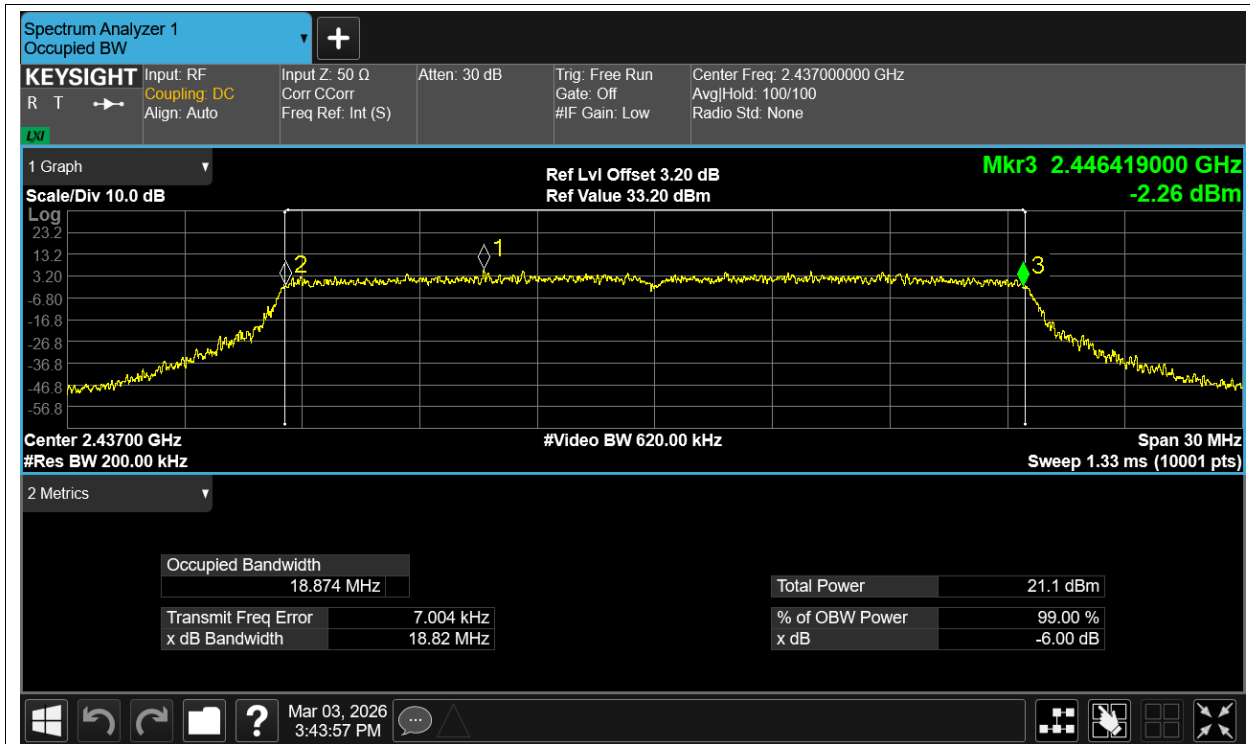
-6dB Bandwidth NVNT ax20 2437MHz Ant1



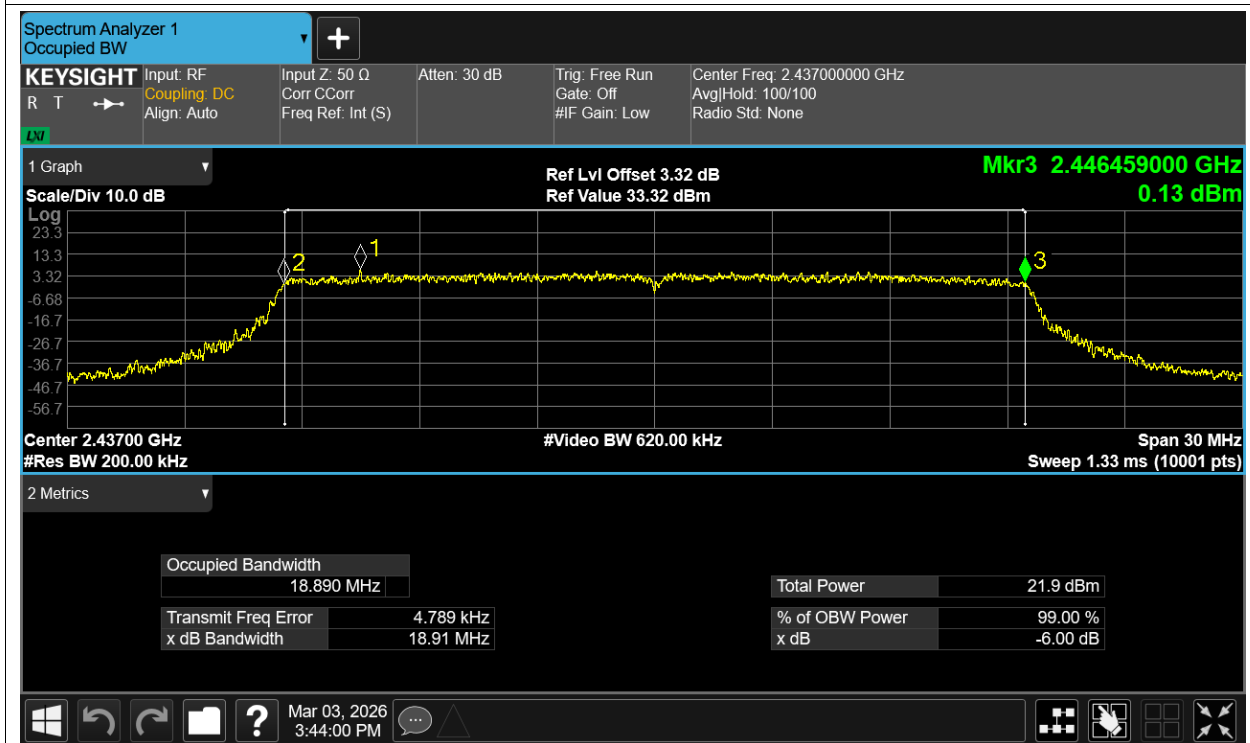
-6dB Bandwidth NVNT ax20 2437MHz Ant2



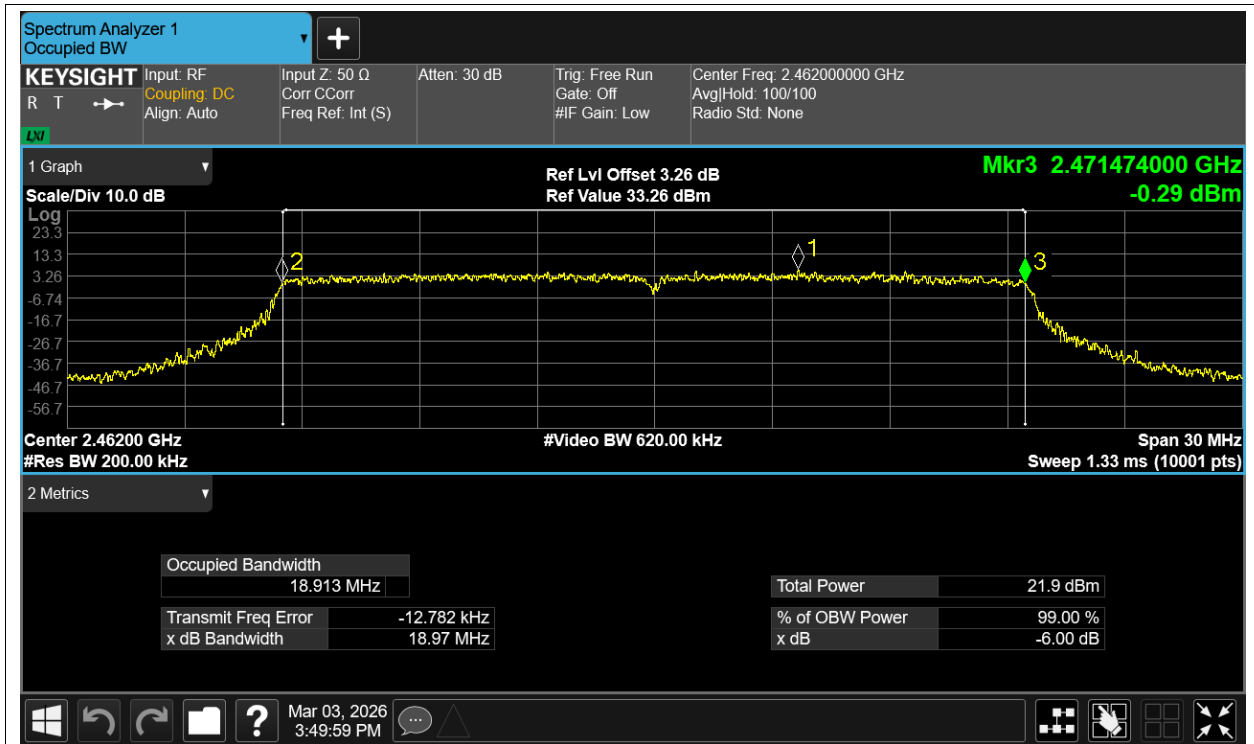
-6dB Bandwidth NVNT ax20 2437MHz Ant3



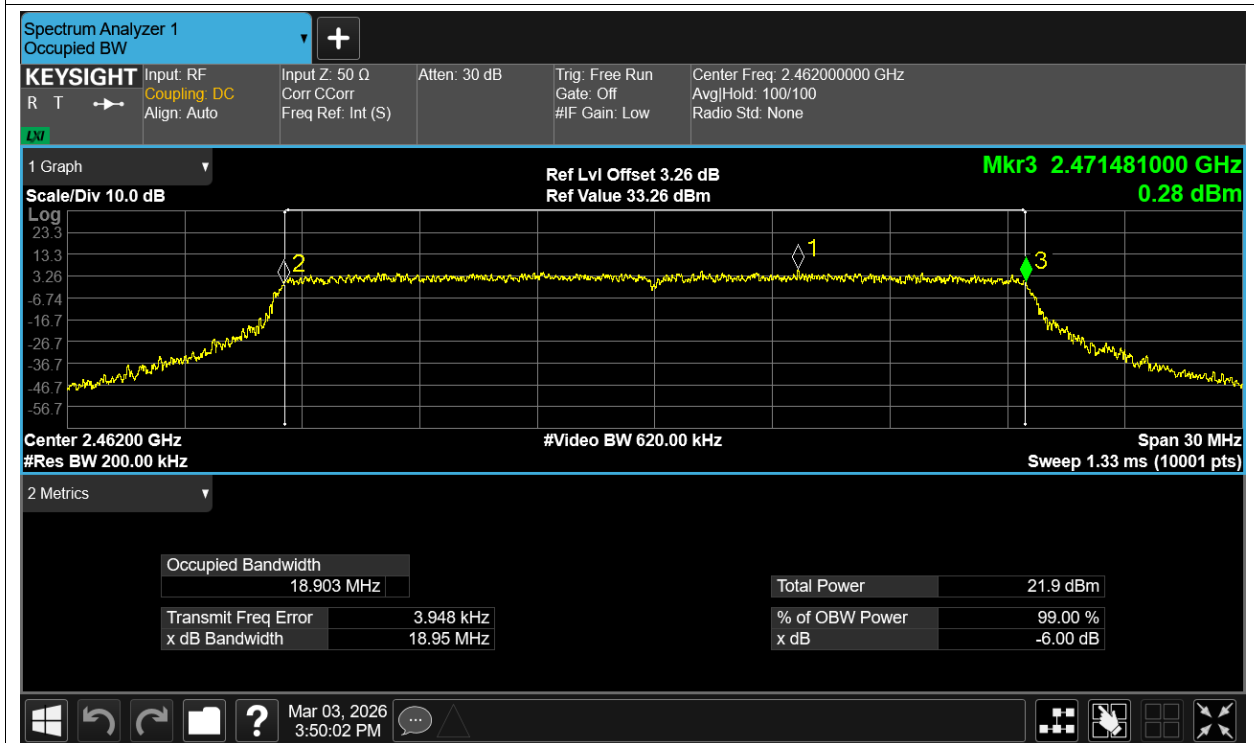
-6dB Bandwidth NVNT ax20 2437MHz Ant4



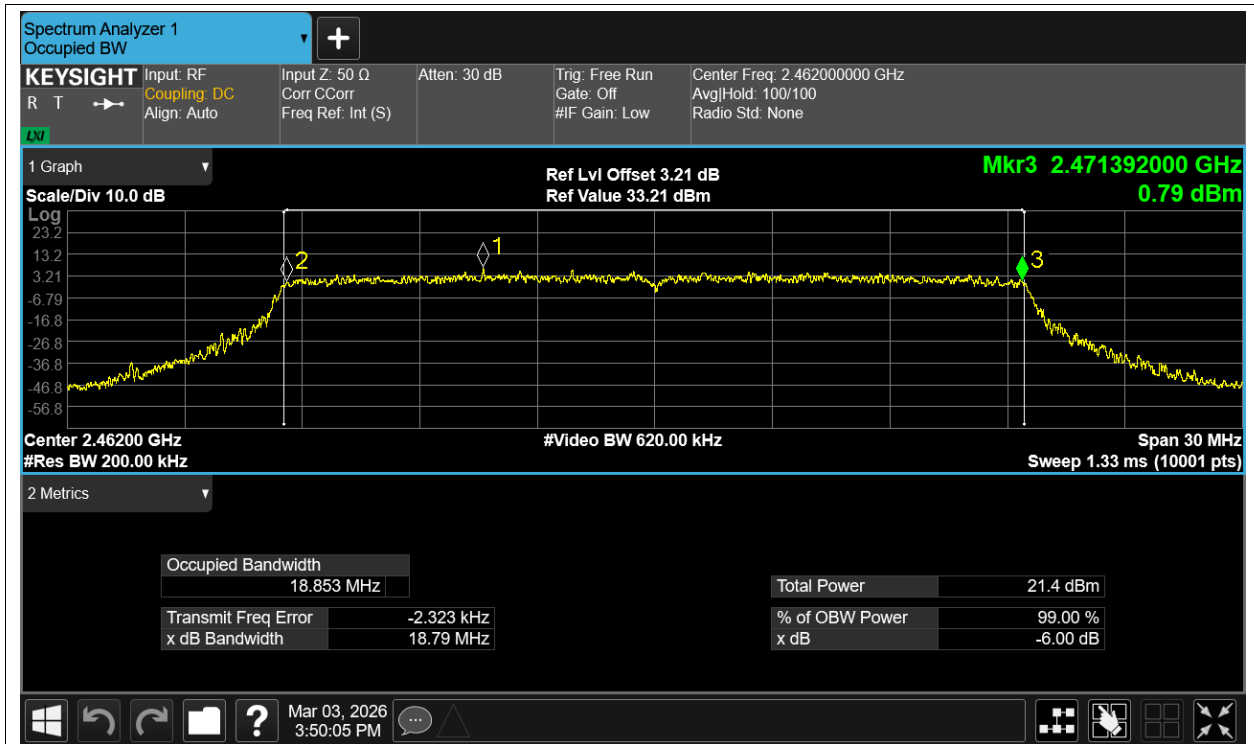
-6dB Bandwidth NVNT ax20 2462MHz Ant1



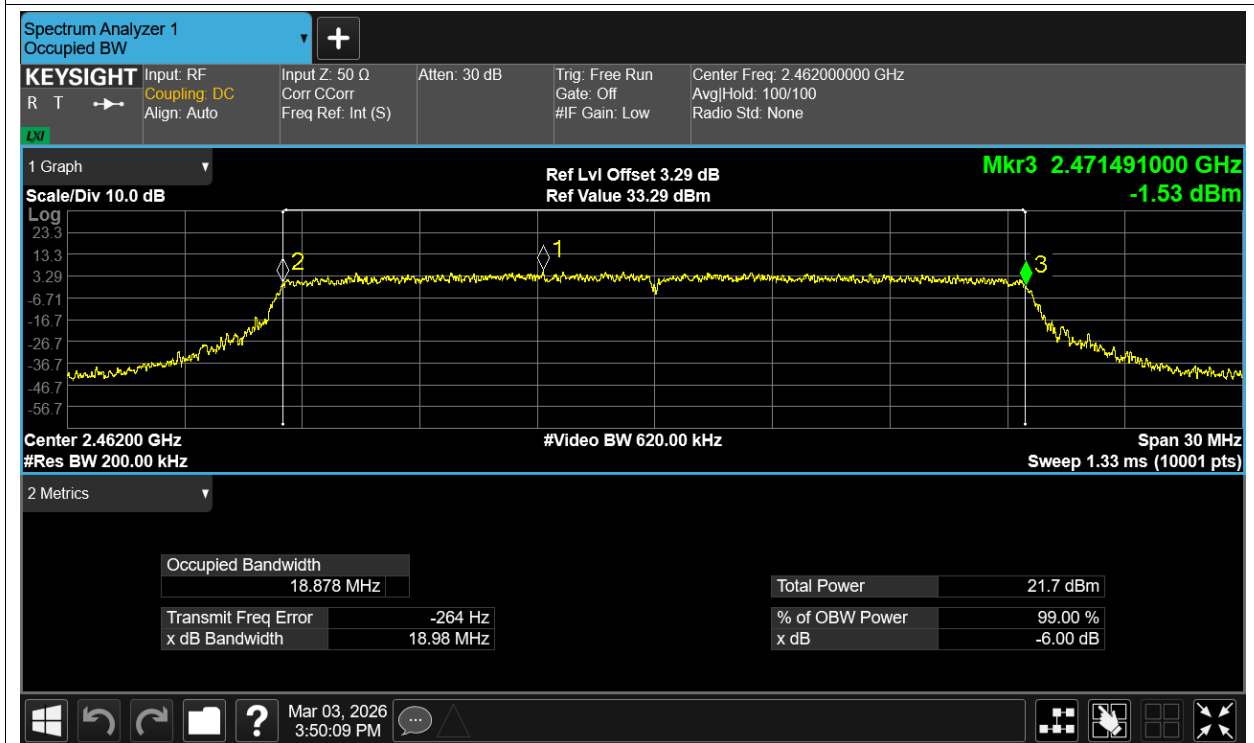
-6dB Bandwidth NVNT ax20 2462MHz Ant2



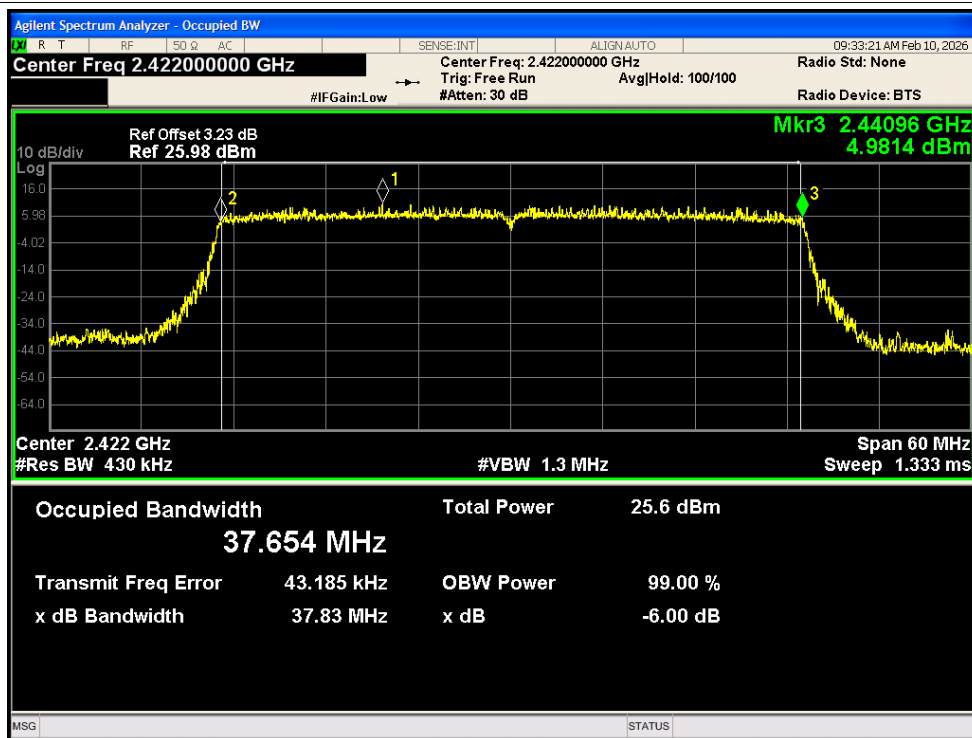
-6dB Bandwidth NVNT ax20 2462MHz Ant3



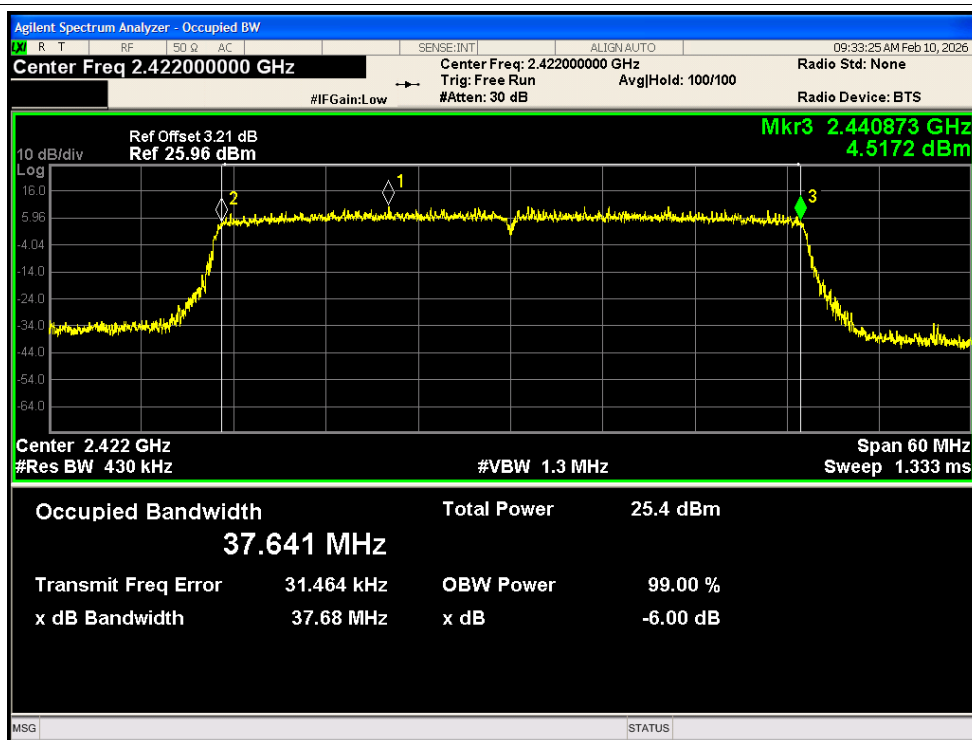
-6dB Bandwidth NVNT ax20 2462MHz Ant4



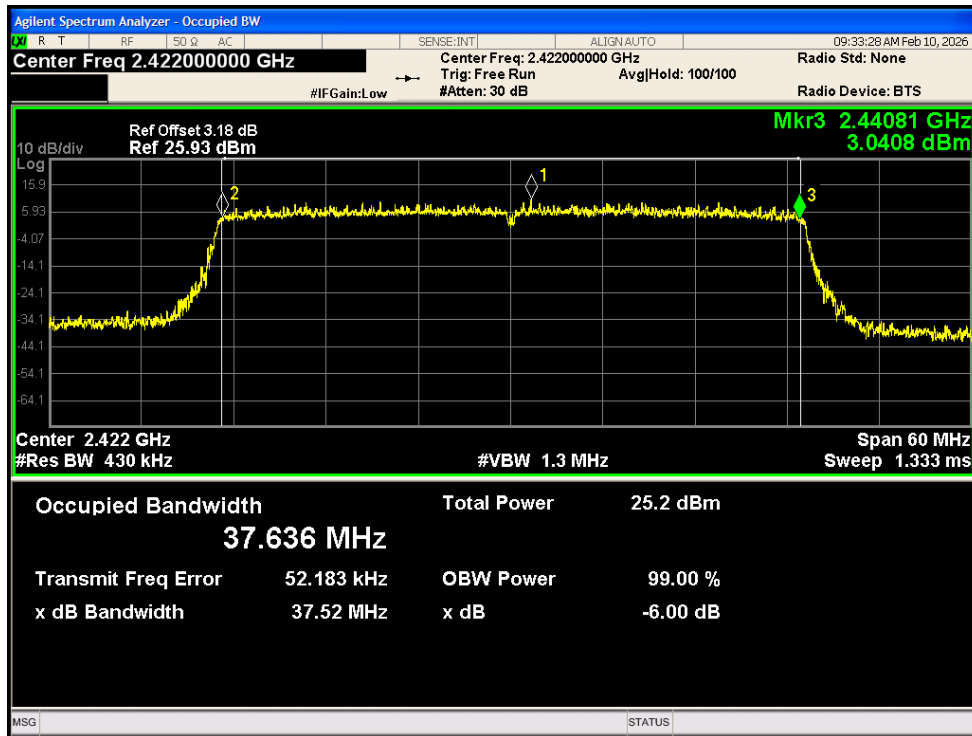
-6dB Bandwidth NVNT ax40 2422MHz Ant1



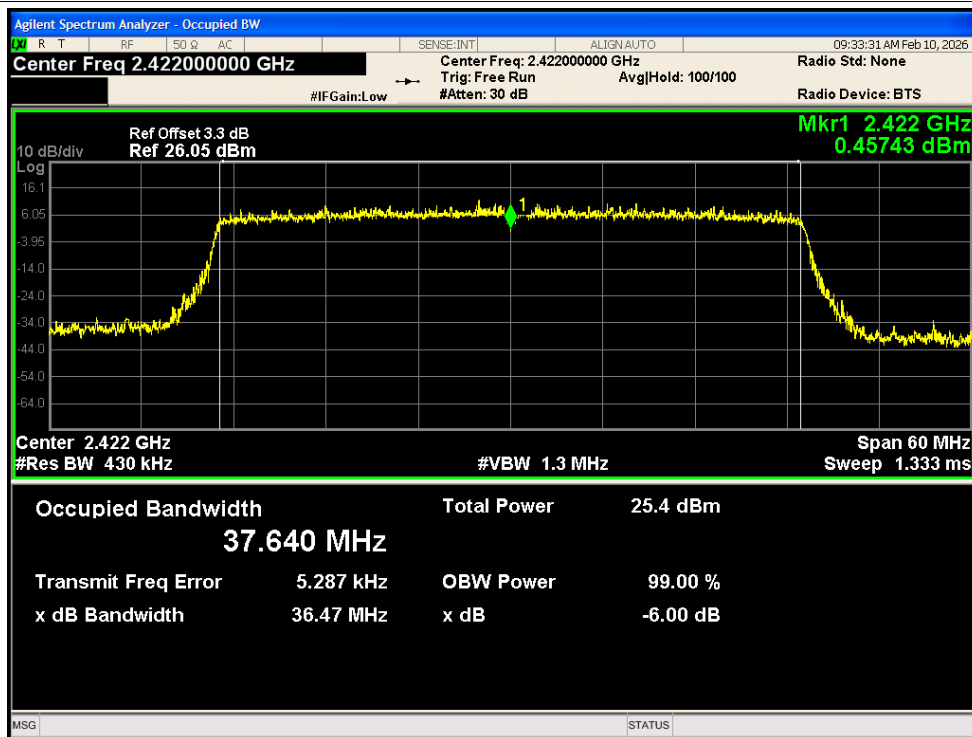
-6dB Bandwidth NVNT ax40 2422MHz Ant2



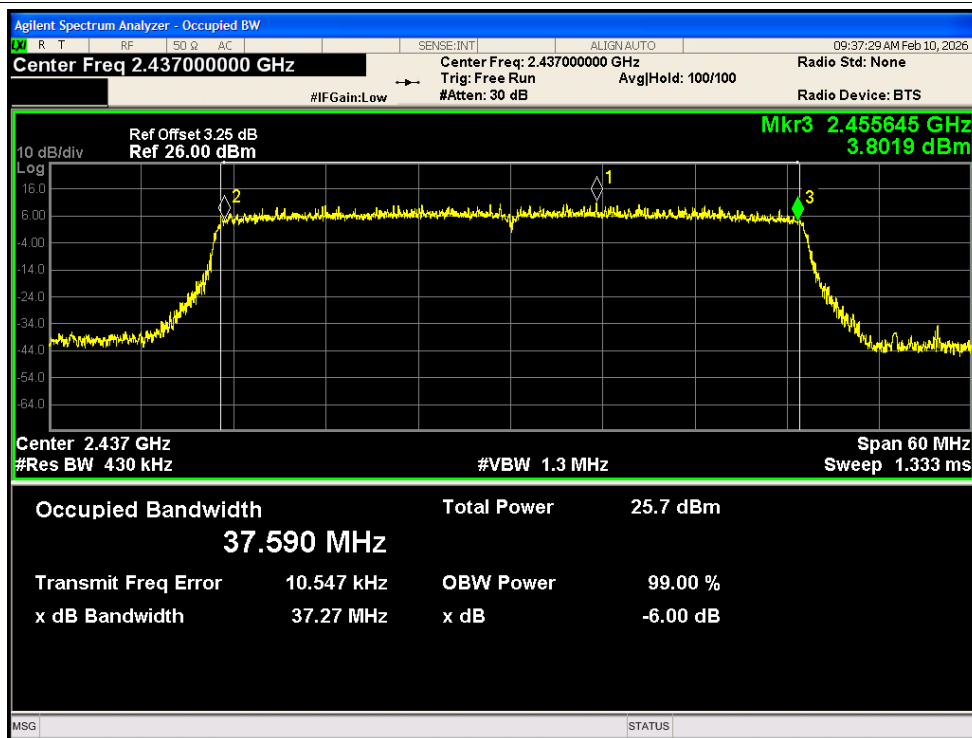
-6dB Bandwidth NVNT ax40 2422MHz Ant3



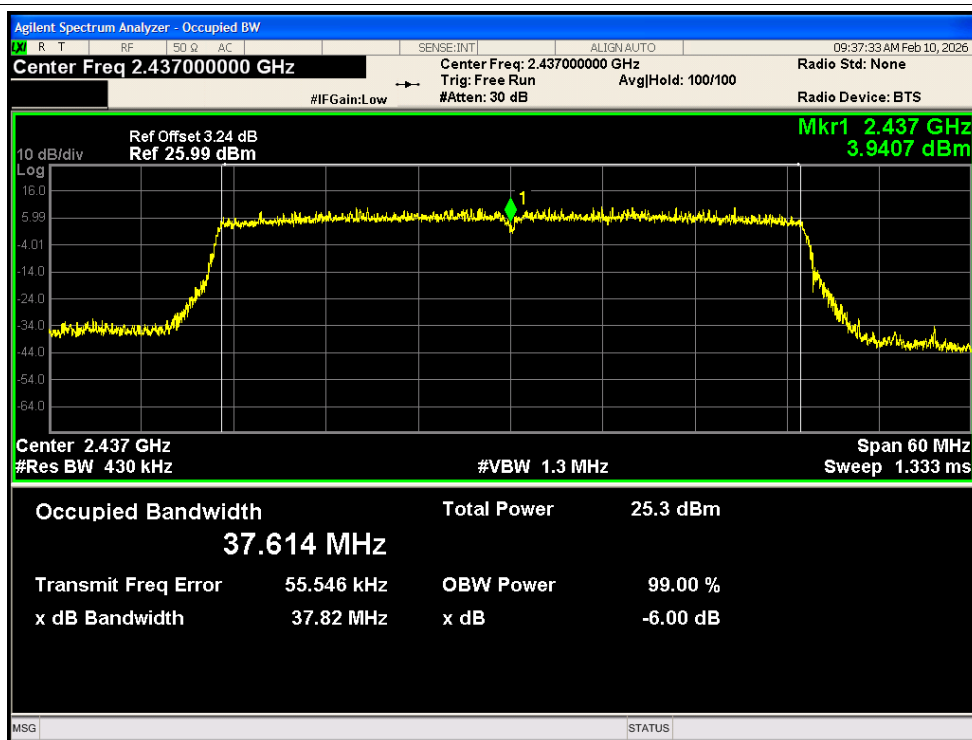
-6dB Bandwidth NVNT ax40 2422MHz Ant4



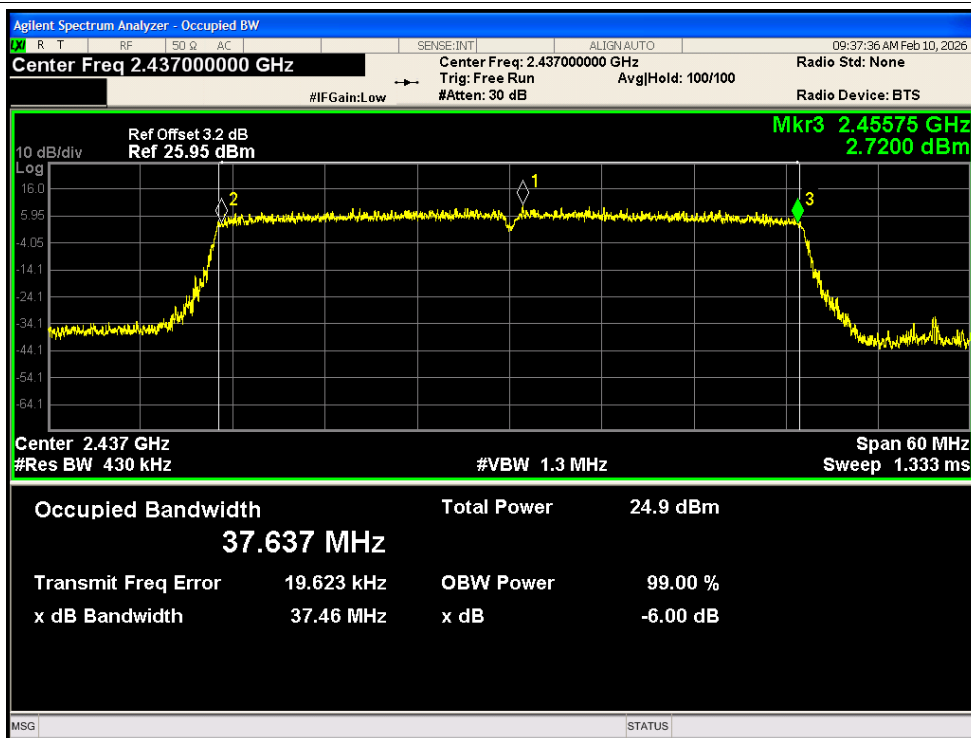
-6dB Bandwidth NVNT ax40 2437MHz Ant1



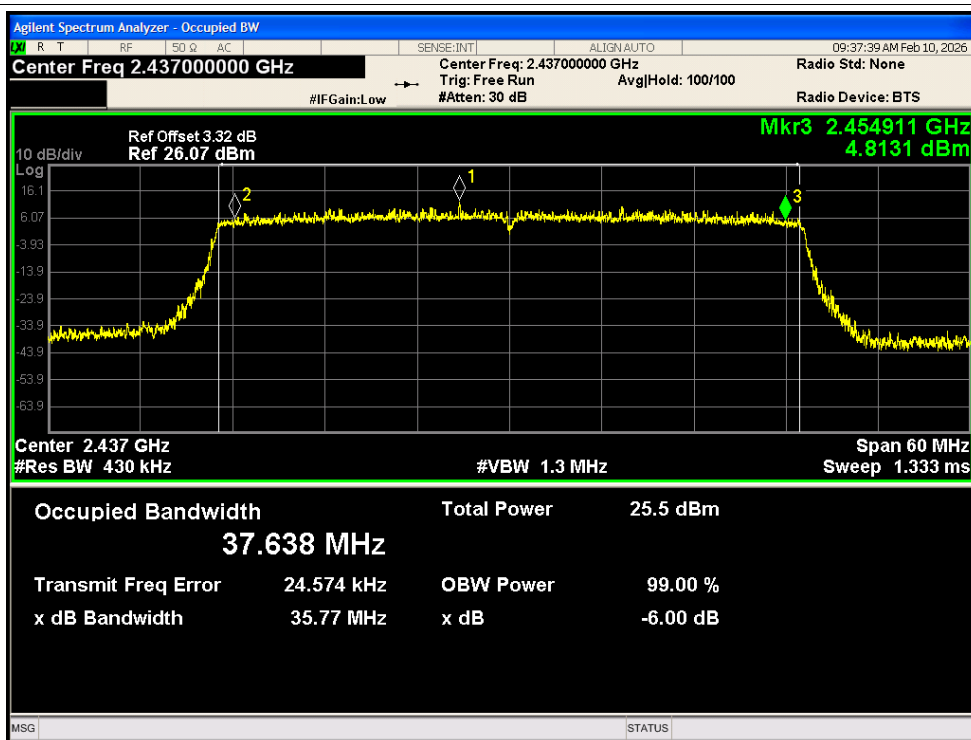
-6dB Bandwidth NVNT ax40 2437MHz Ant2



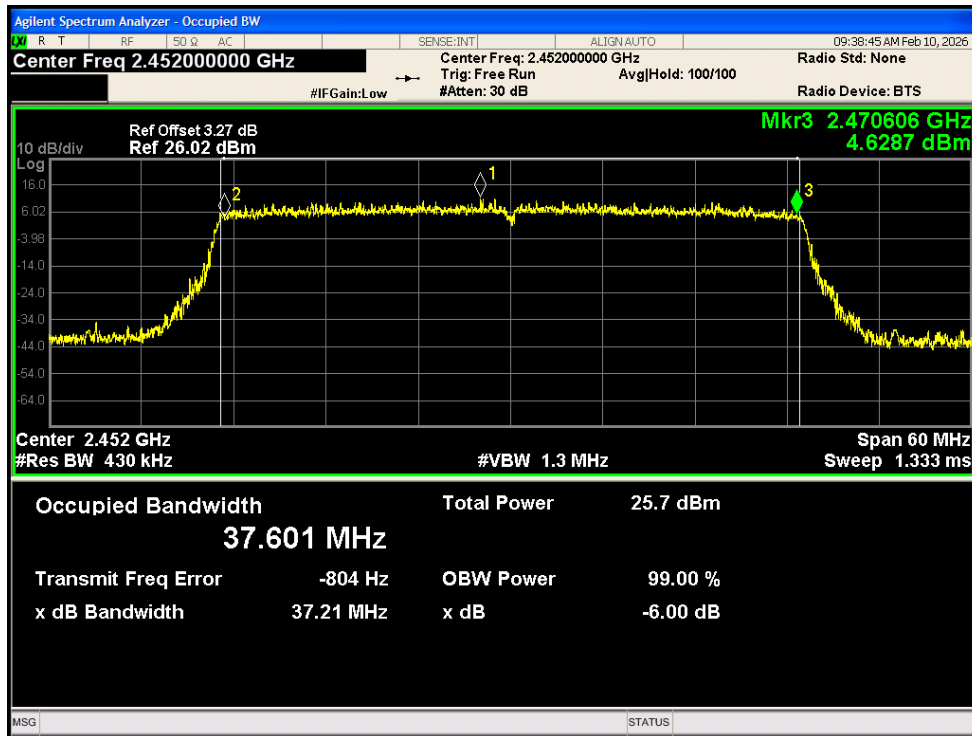
-6dB Bandwidth NVNT ax40 2437MHz Ant3



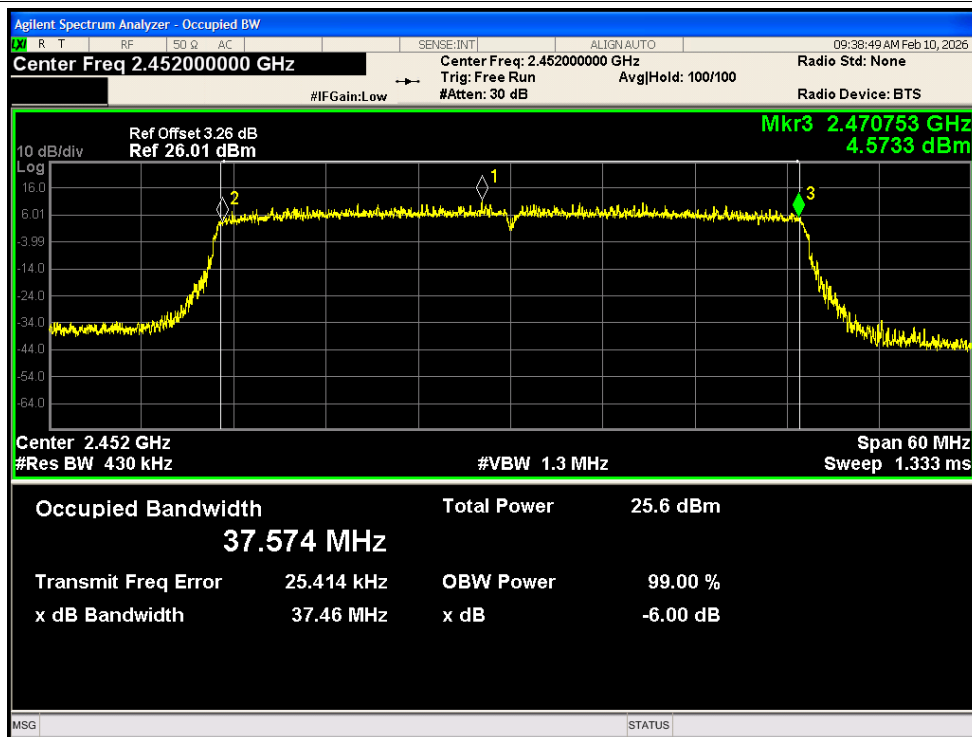
-6dB Bandwidth NVNT ax40 2437MHz Ant4



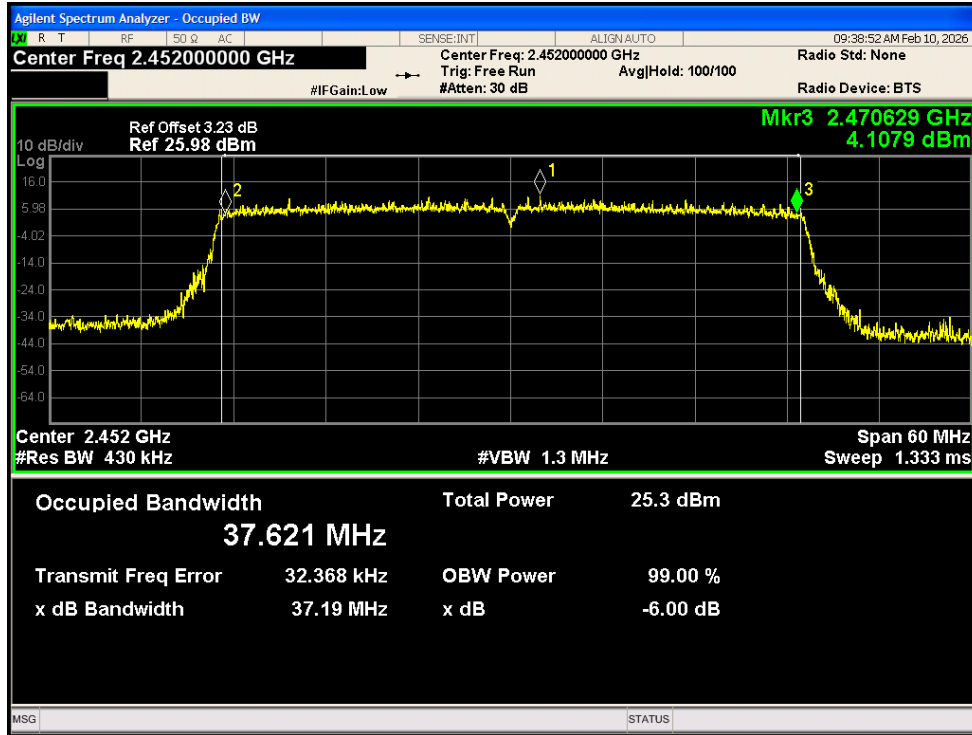
-6dB Bandwidth NVNT ax40 2452MHz Ant1



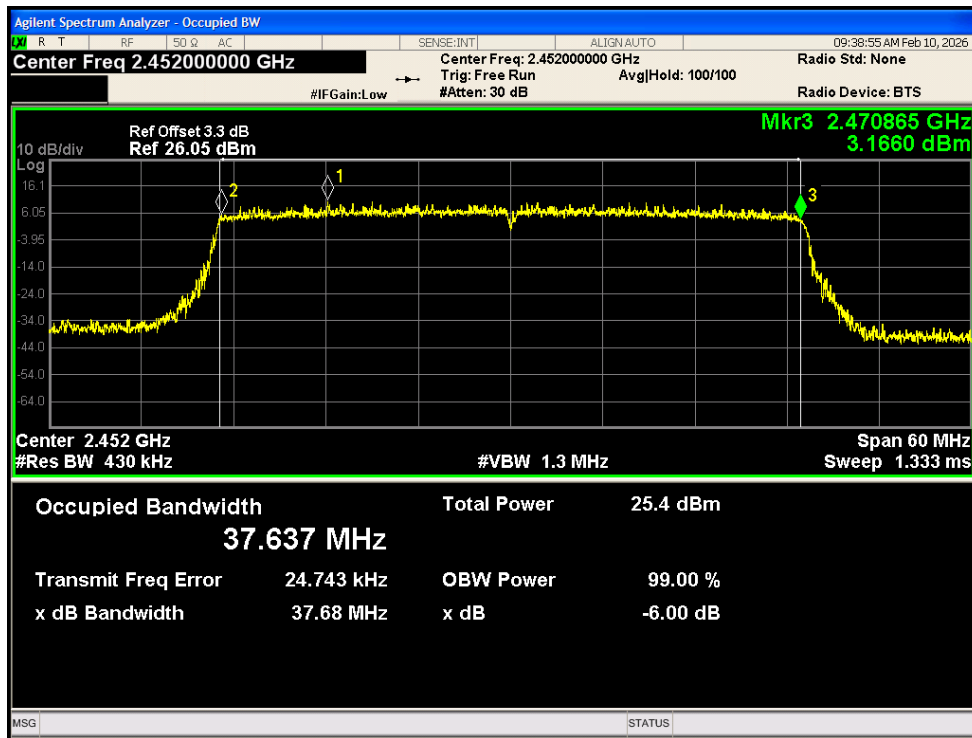
-6dB Bandwidth NVNT ax40 2452MHz Ant2



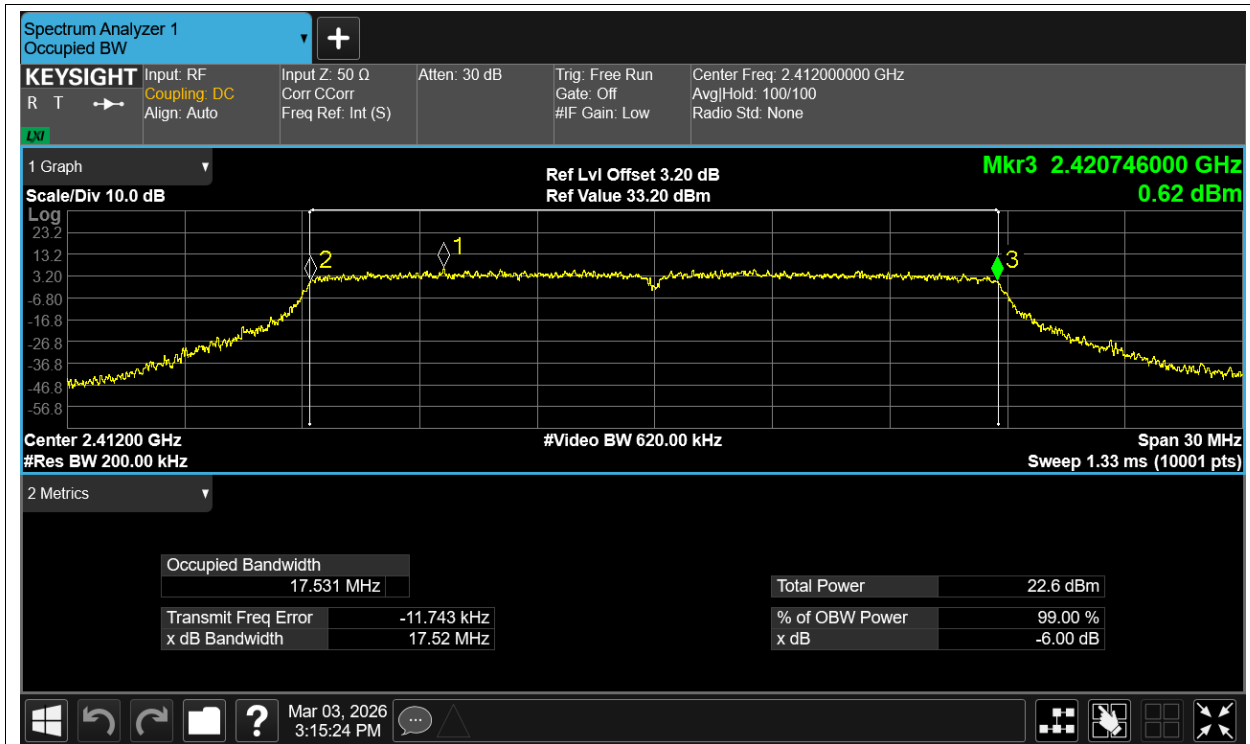
-6dB Bandwidth NVNT ax40 2452MHz Ant3



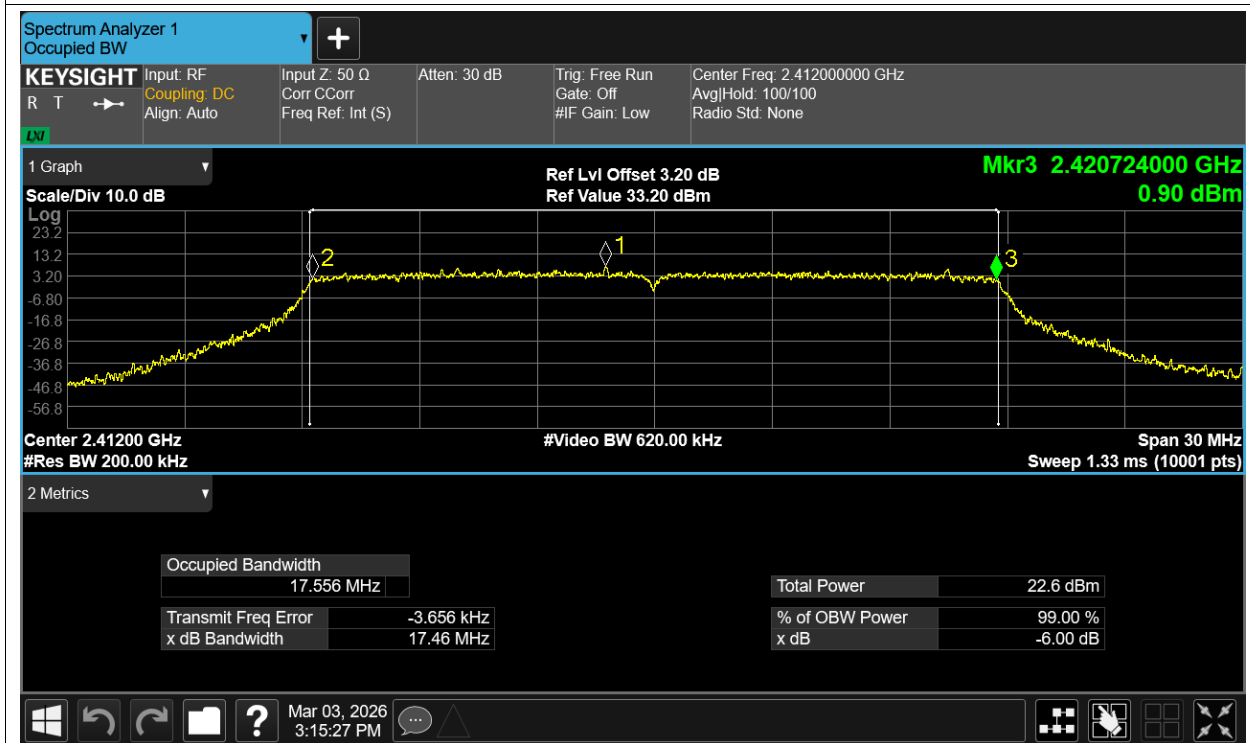
-6dB Bandwidth NVNT ax40 2452MHz Ant4



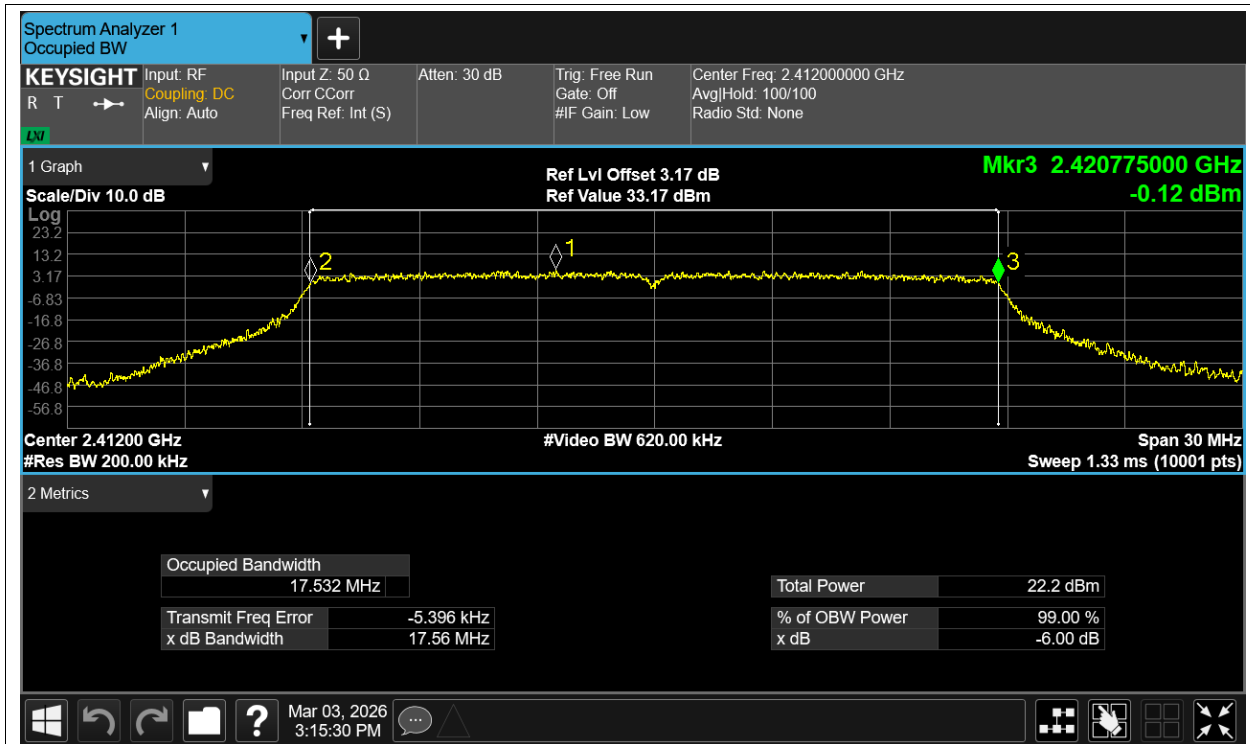
-6dB Bandwidth NVNT n20 2412MHz Ant1



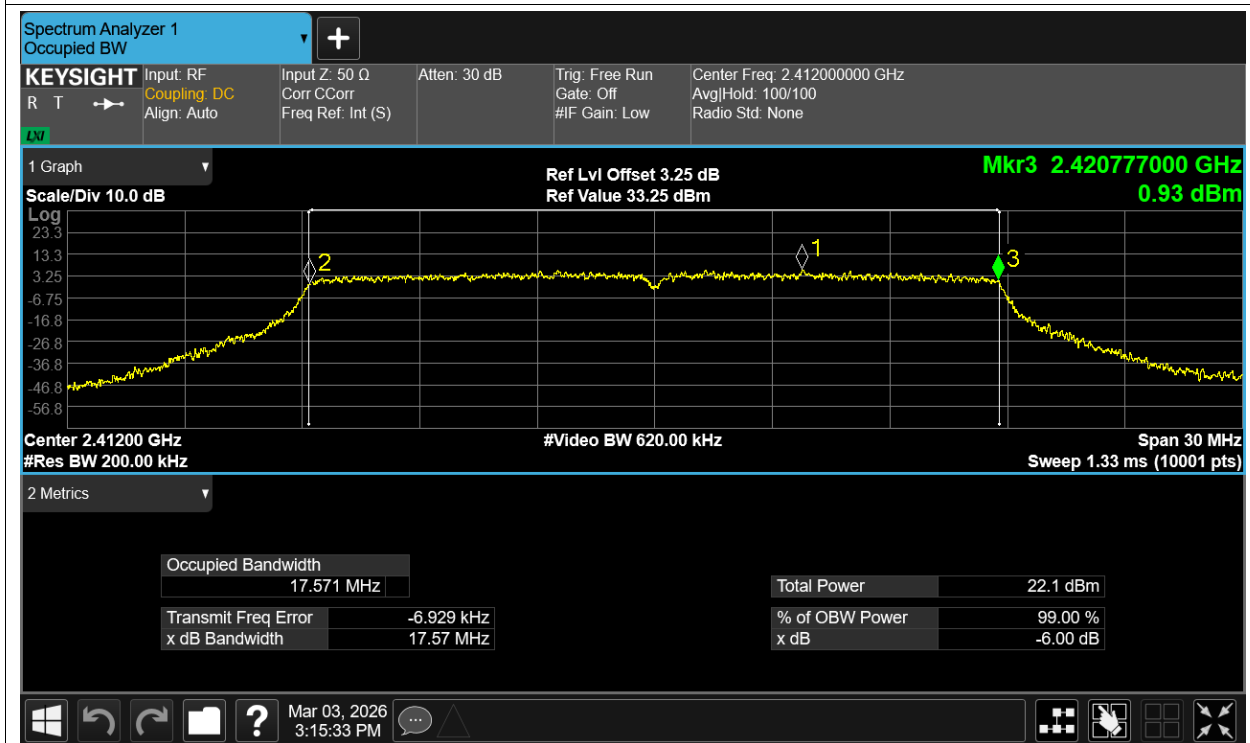
-6dB Bandwidth NVNT n20 2412MHz Ant2



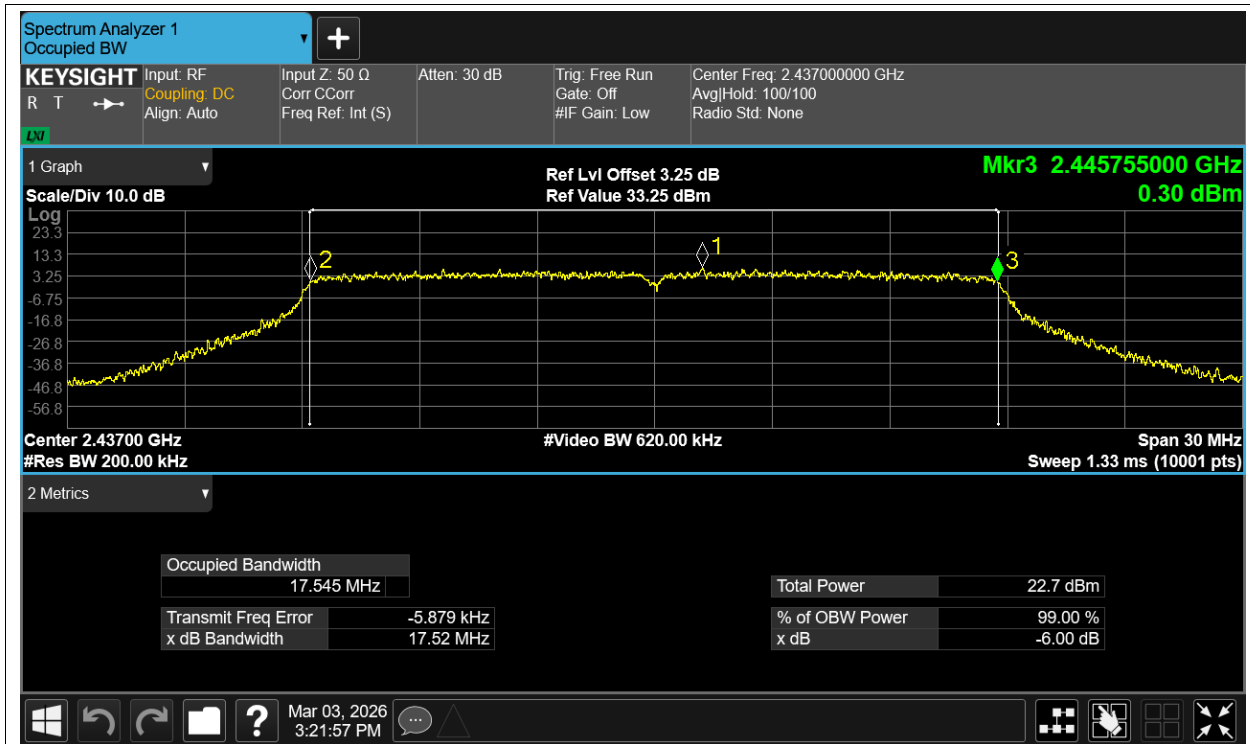
-6dB Bandwidth NVNT n20 2412MHz Ant3



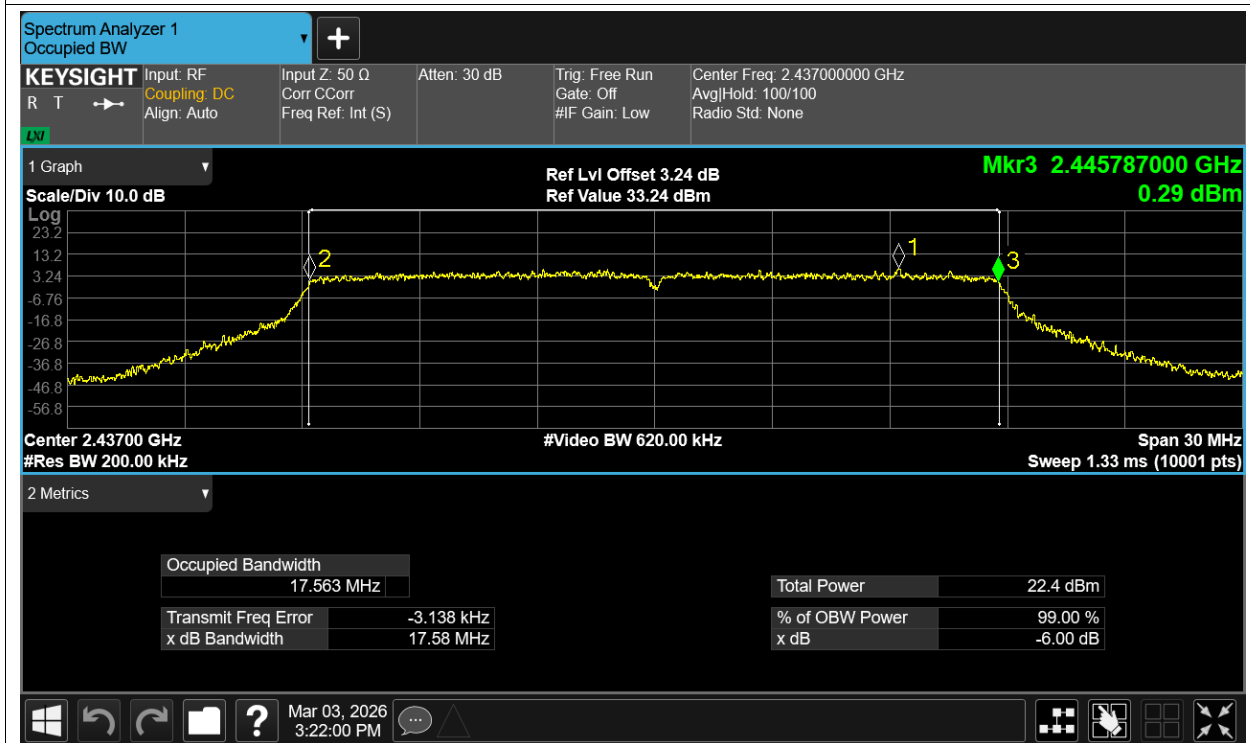
-6dB Bandwidth NVNT n20 2412MHz Ant4



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant3