

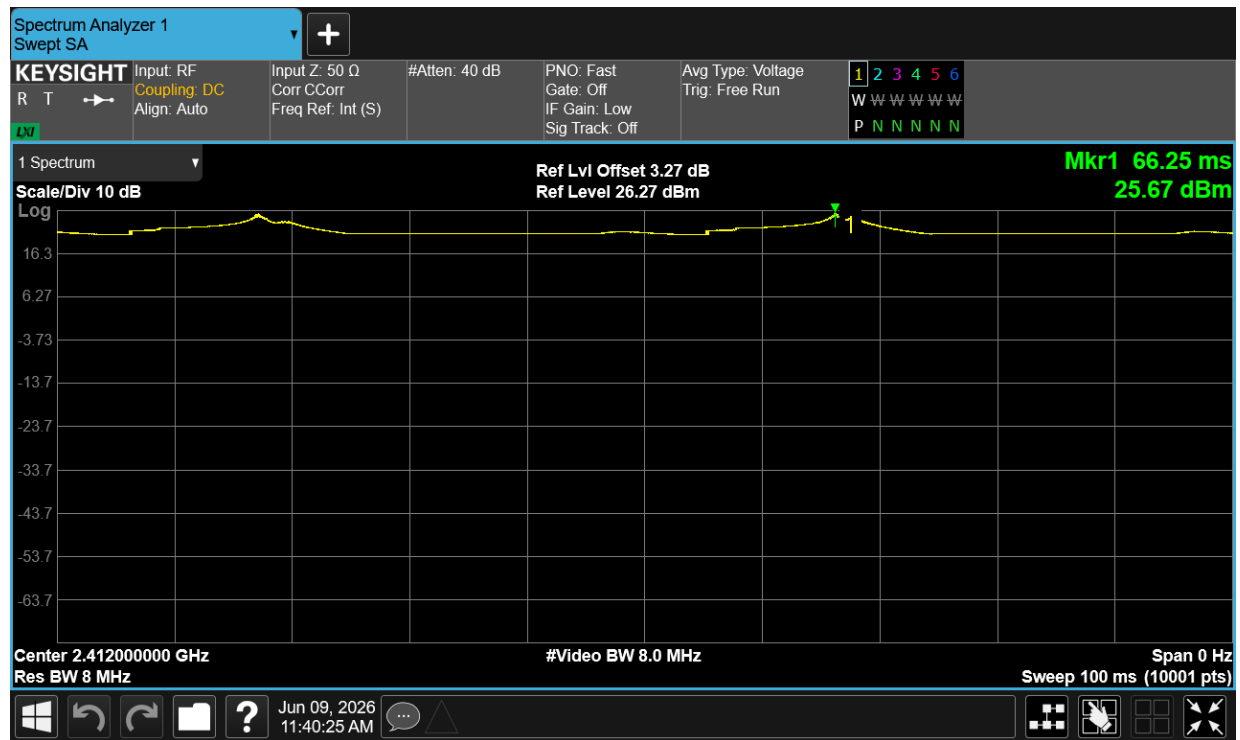
Test Data

Duty Cycle

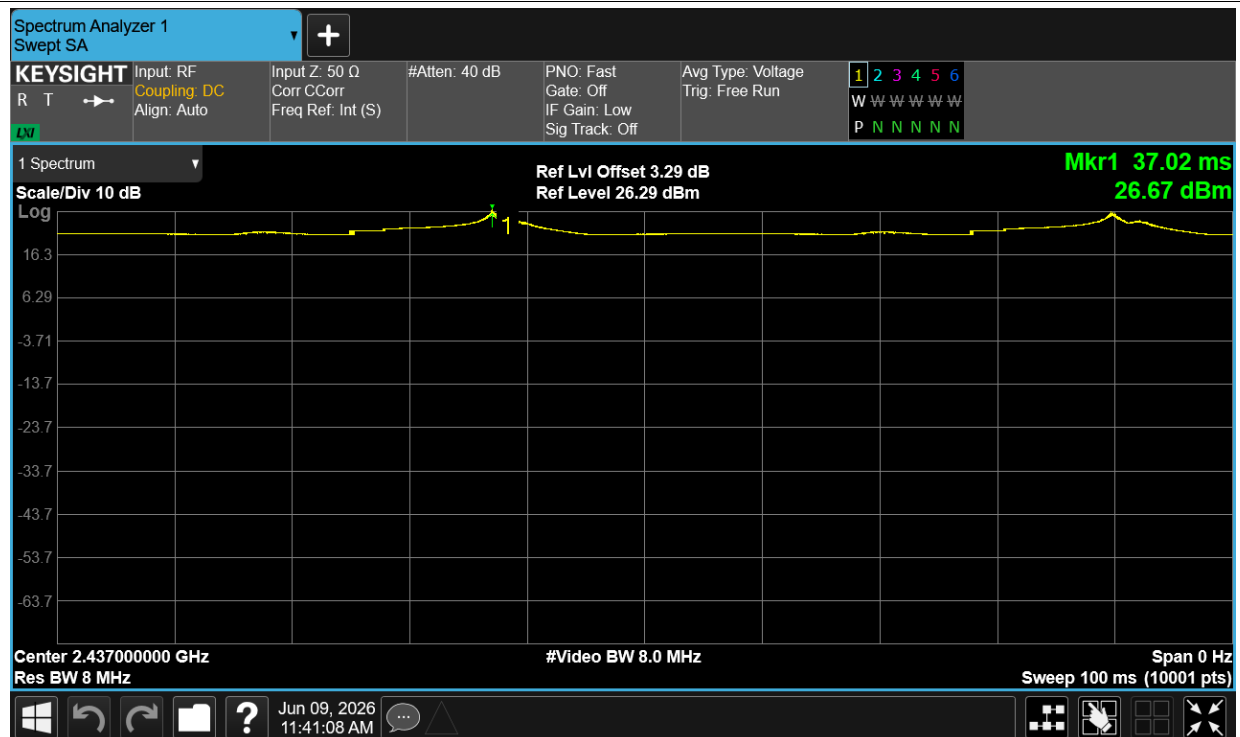
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	b	2412	Ant2	100	0
NVNT	b	2437	Ant2	100	0
NVNT	b	2462	Ant2	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	g	2412	Ant2	100	0
NVNT	g	2437	Ant2	100	0
NVNT	g	2462	Ant2	100	0
NVNT	n20	2412	Sum	100	0
NVNT	n20	2437	Sum	100	0
NVNT	n20	2462	Sum	100	0
NVNT	n40	2422	Sum	100	0
NVNT	n40	2437	Sum	100	0
NVNT	n40	2452	Sum	100	0

Test Graphs

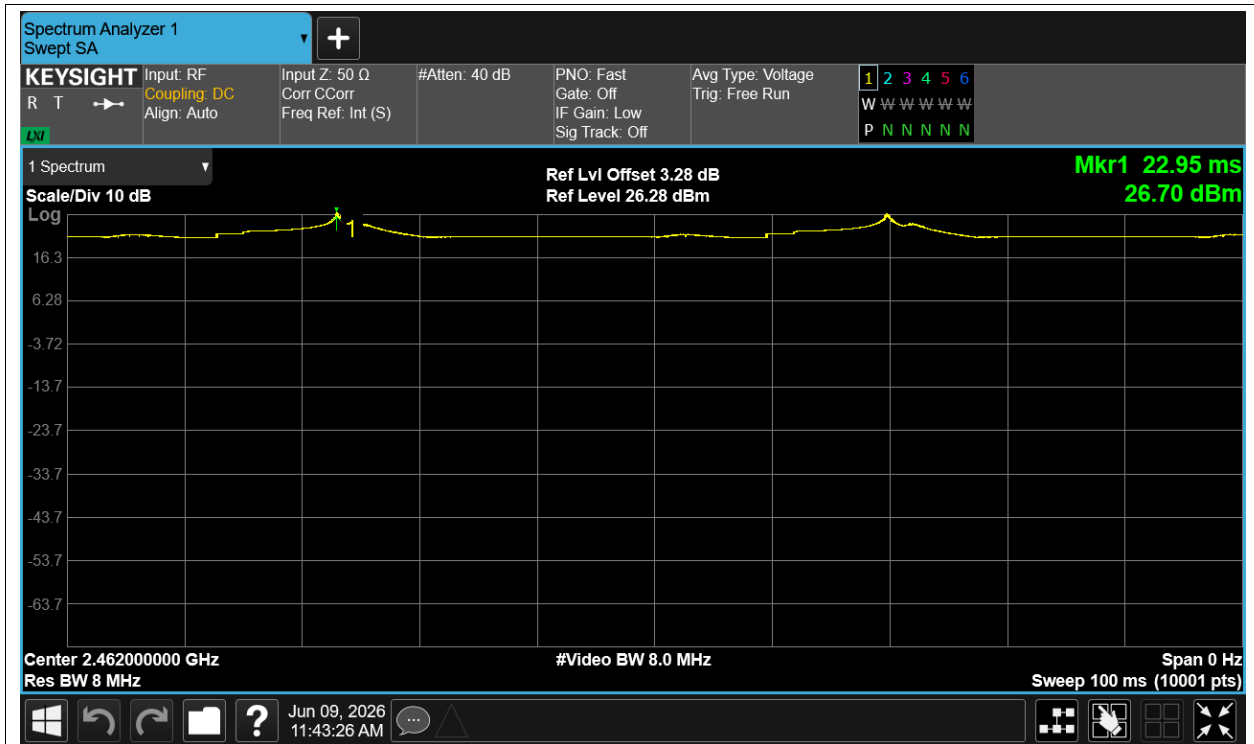
Duty Cycle NVNT b 2412MHz Ant1



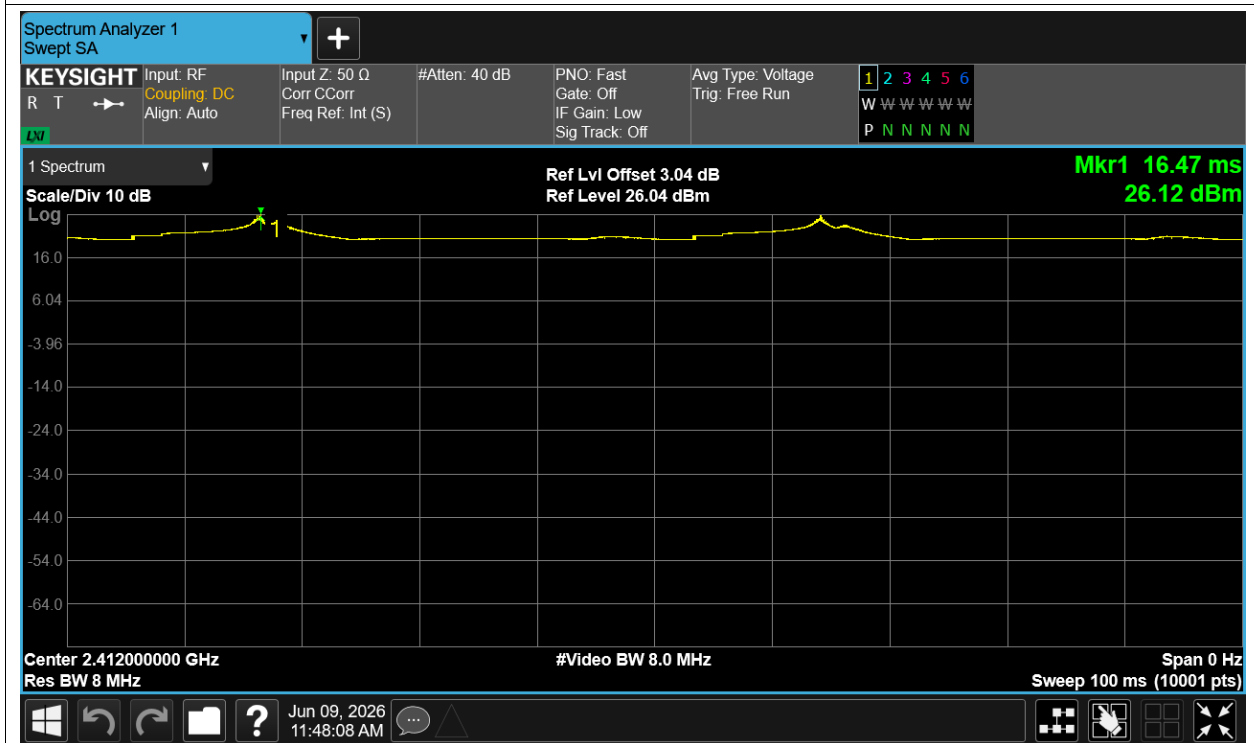
Duty Cycle NVNT b 2437MHz Ant1



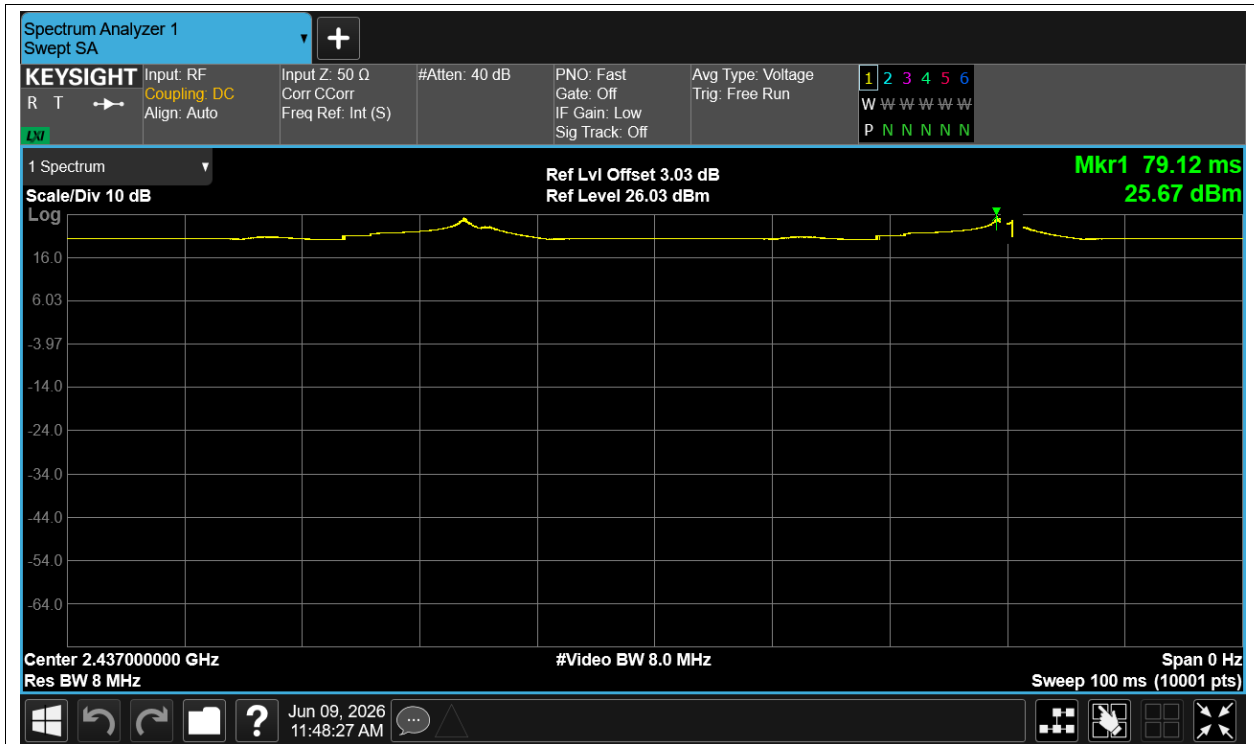
Duty Cycle NVNT b 2462MHz Ant1



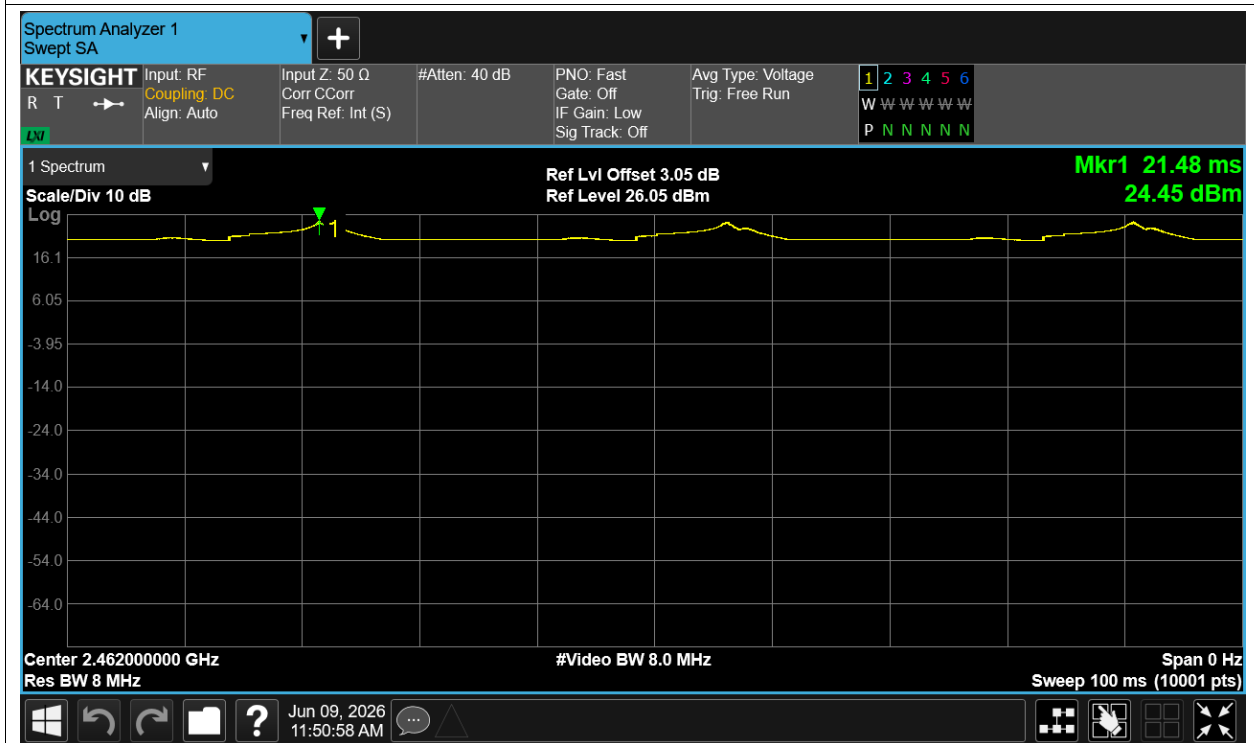
Duty Cycle NVNT b 2412MHz Ant2



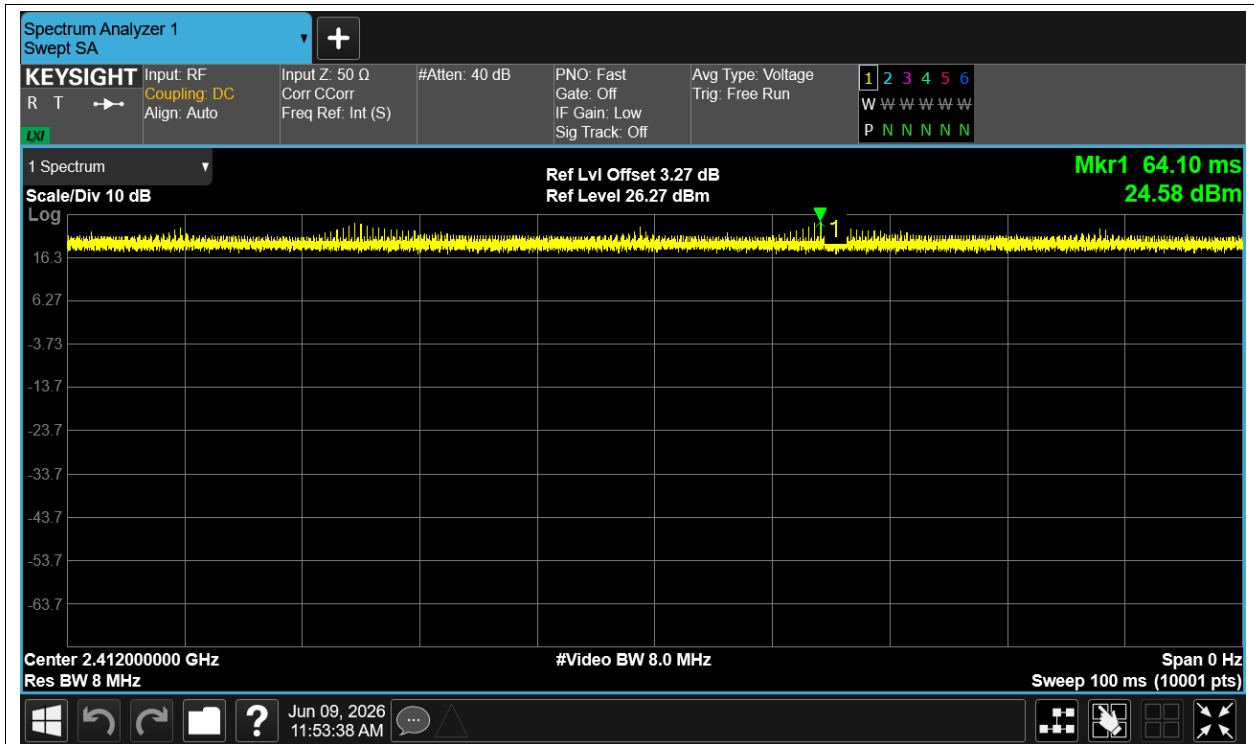
Duty Cycle NVNT b 2437MHz Ant2



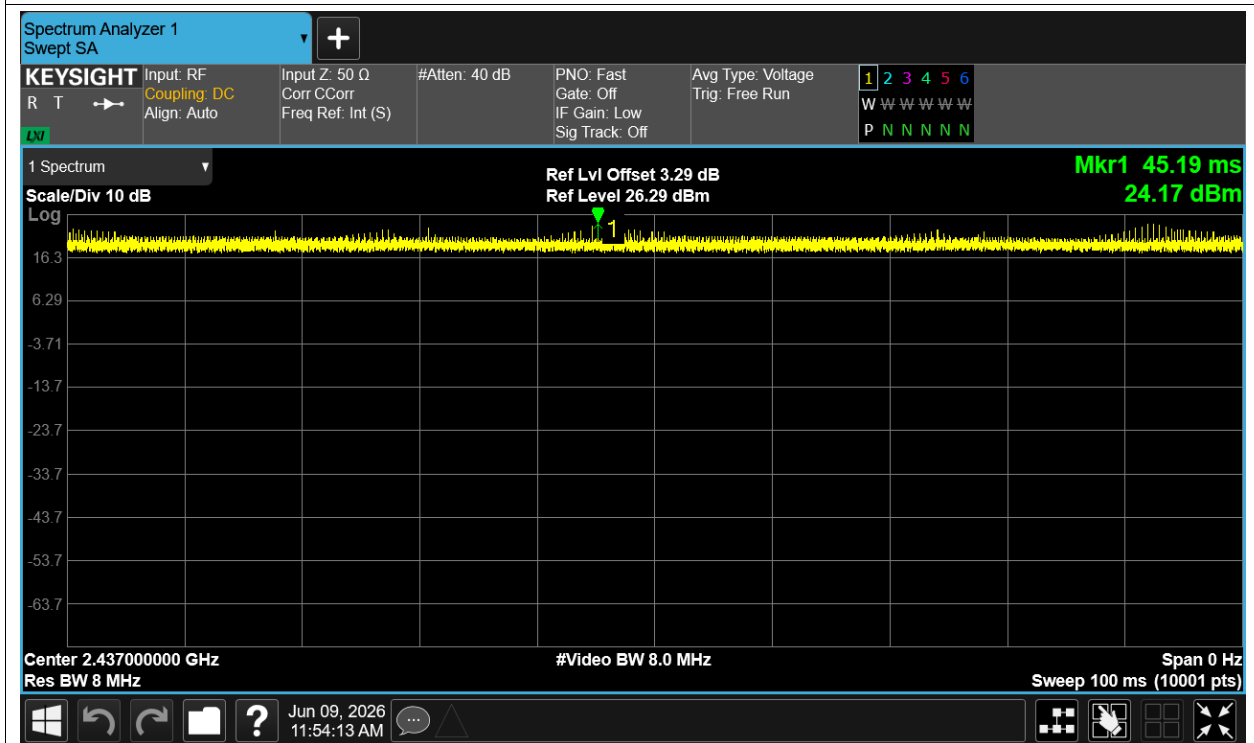
Duty Cycle NVNT b 2462MHz Ant2



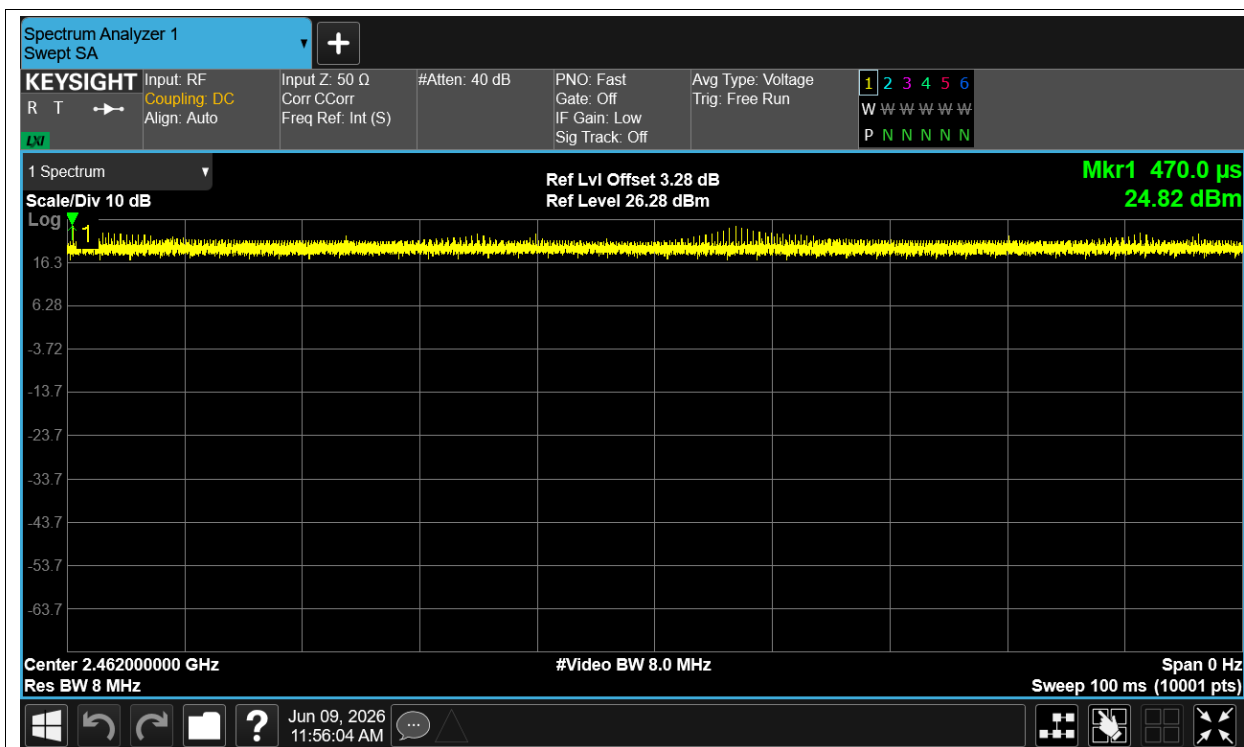
Duty Cycle NVNT g 2412MHz Ant1



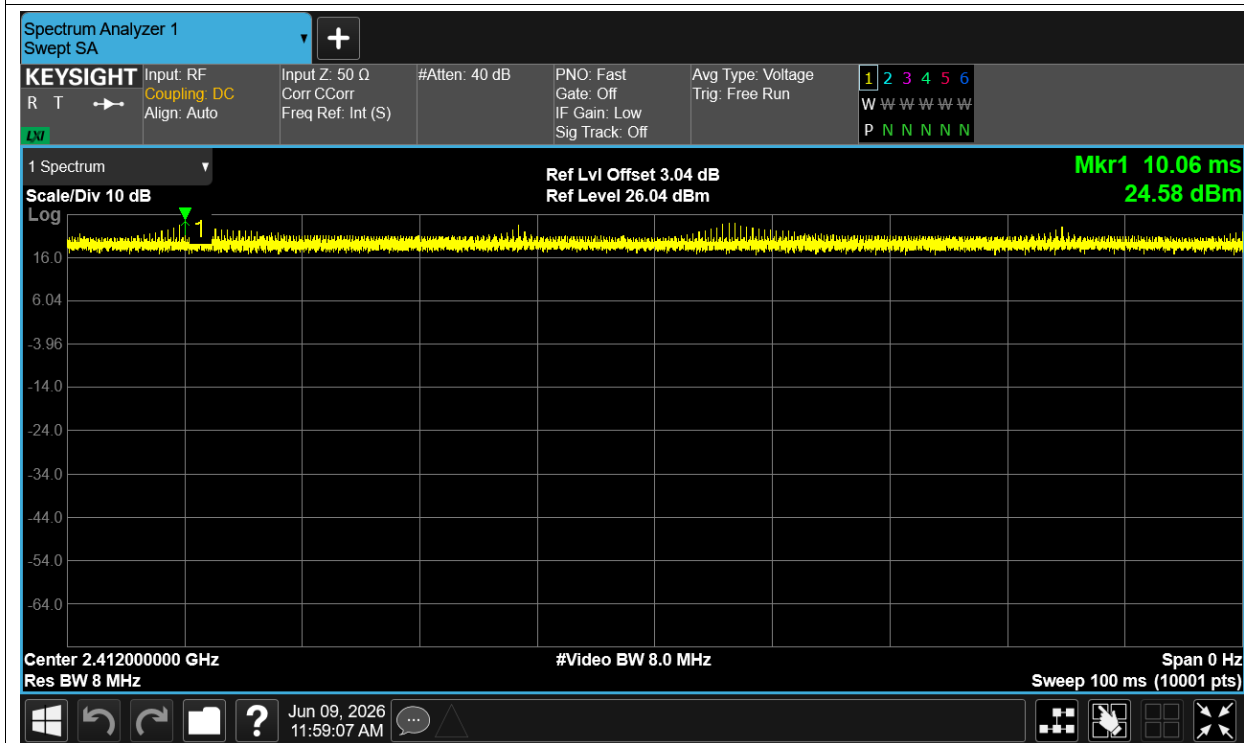
Duty Cycle NVNT g 2437MHz Ant1



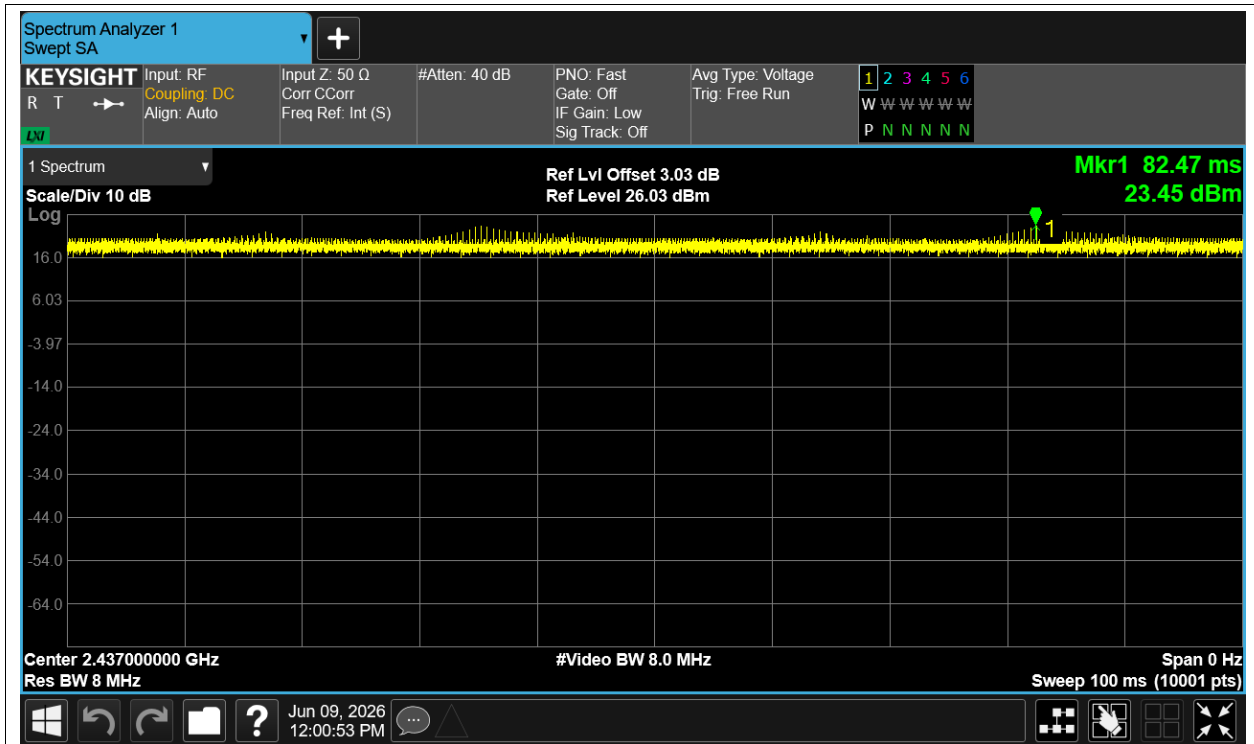
Duty Cycle NVNT g 2462MHz Ant1



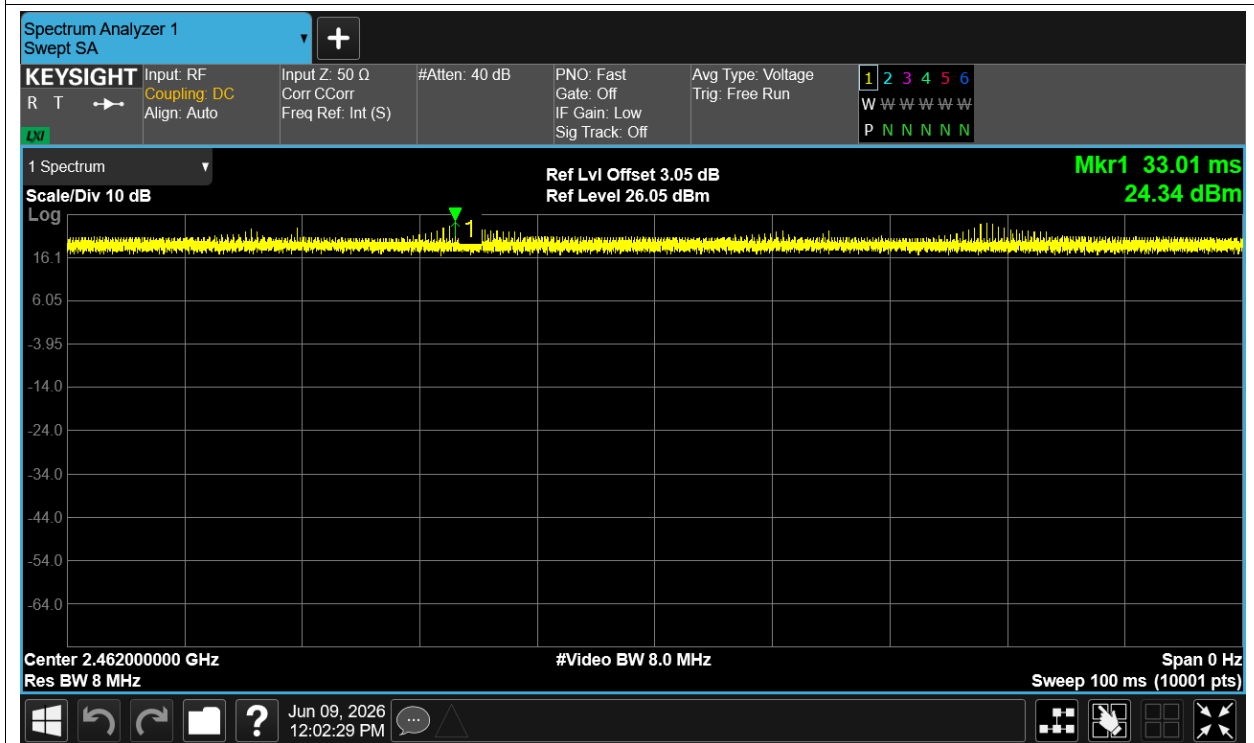
Duty Cycle NVNT g 2412MHz Ant2



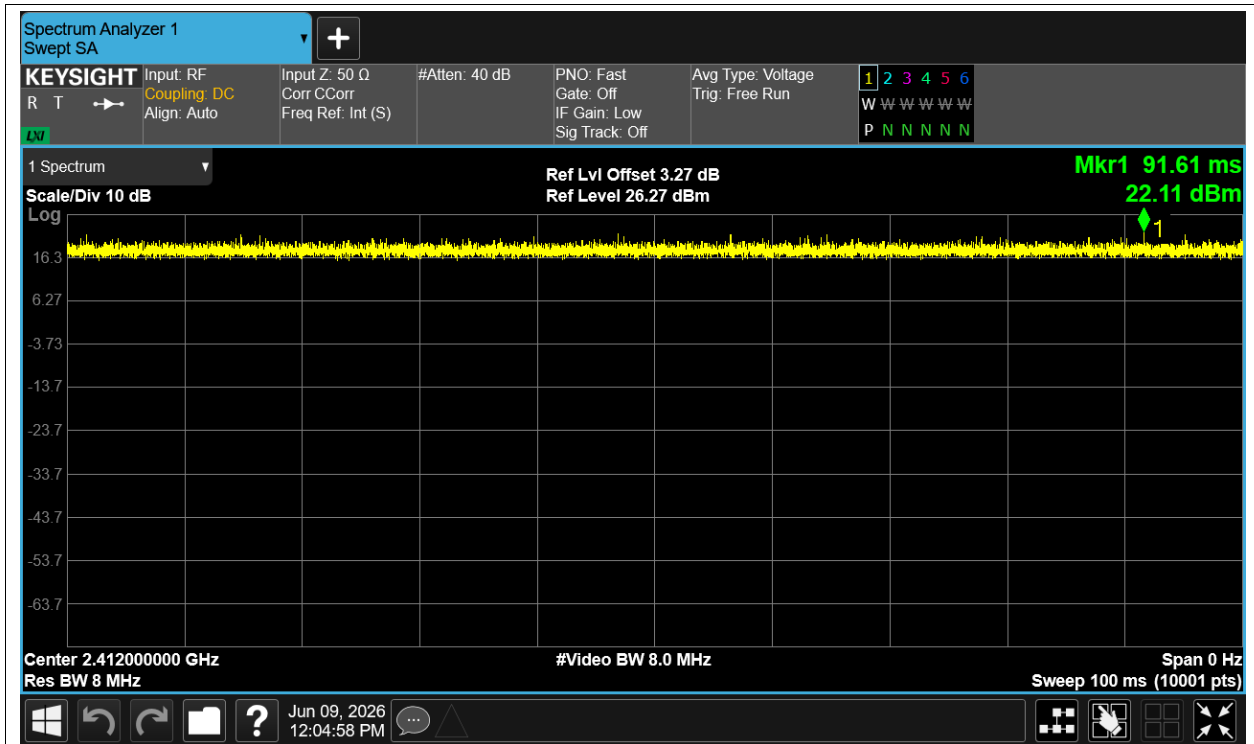
Duty Cycle NVNT g 2437MHz Ant2



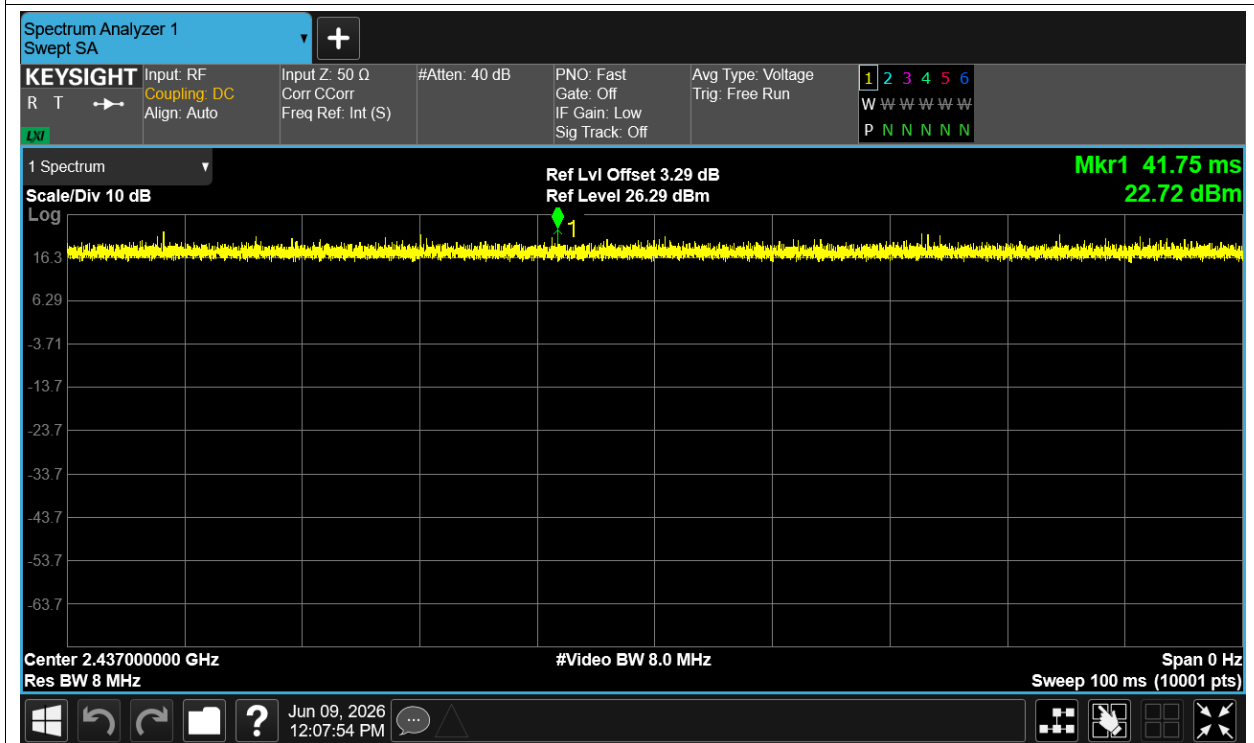
Duty Cycle NVNT g 2462MHz Ant2



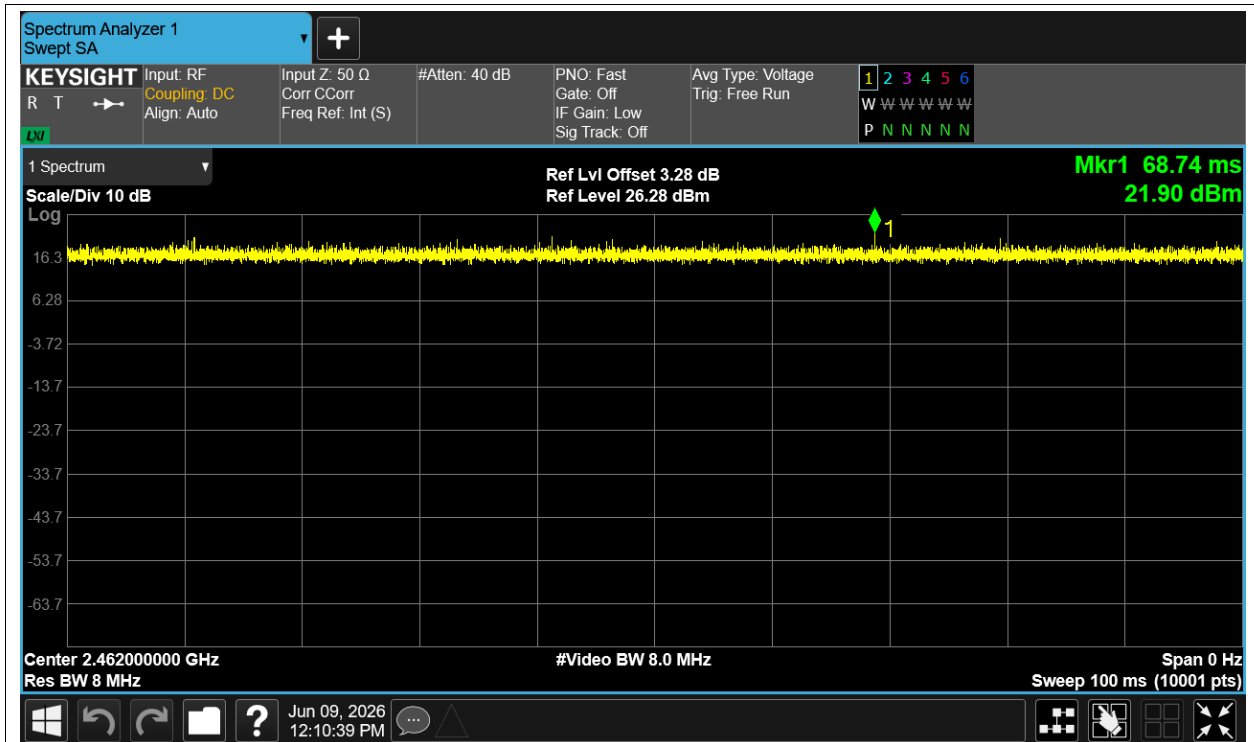
Duty Cycle NVNT n20 2412MHz Sum



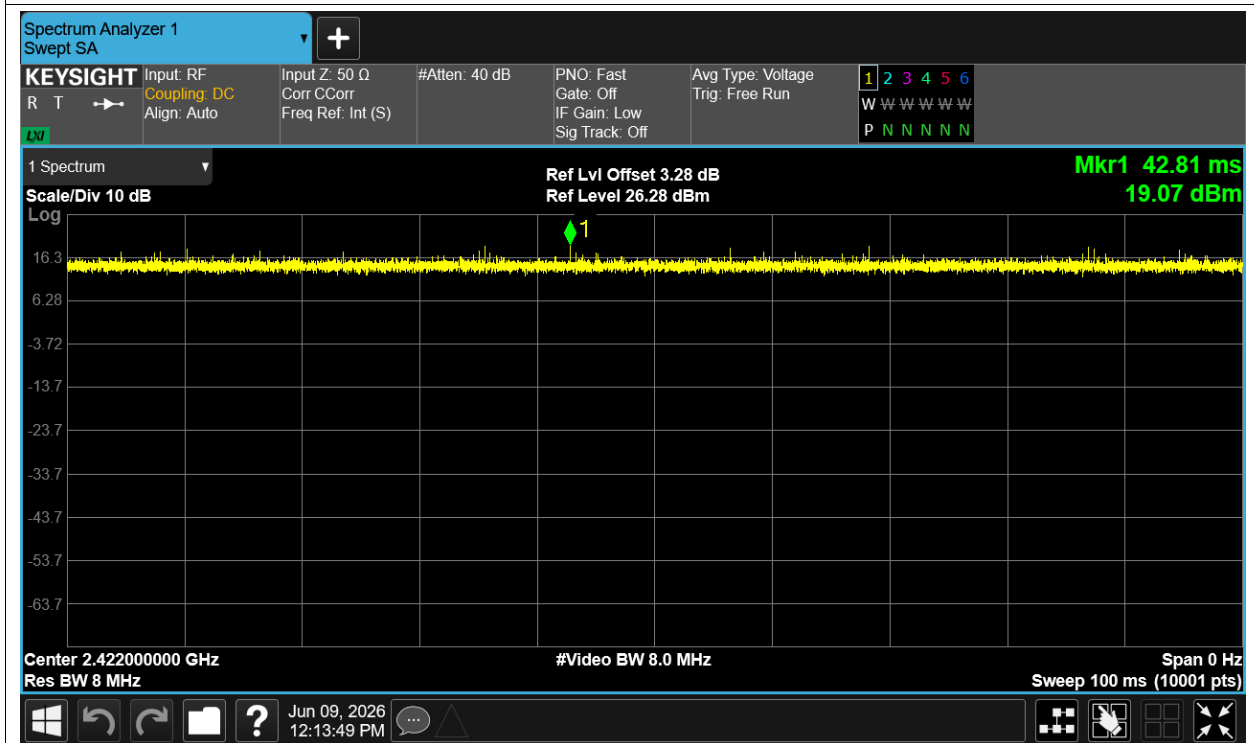
Duty Cycle NVNT n20 2437MHz Sum



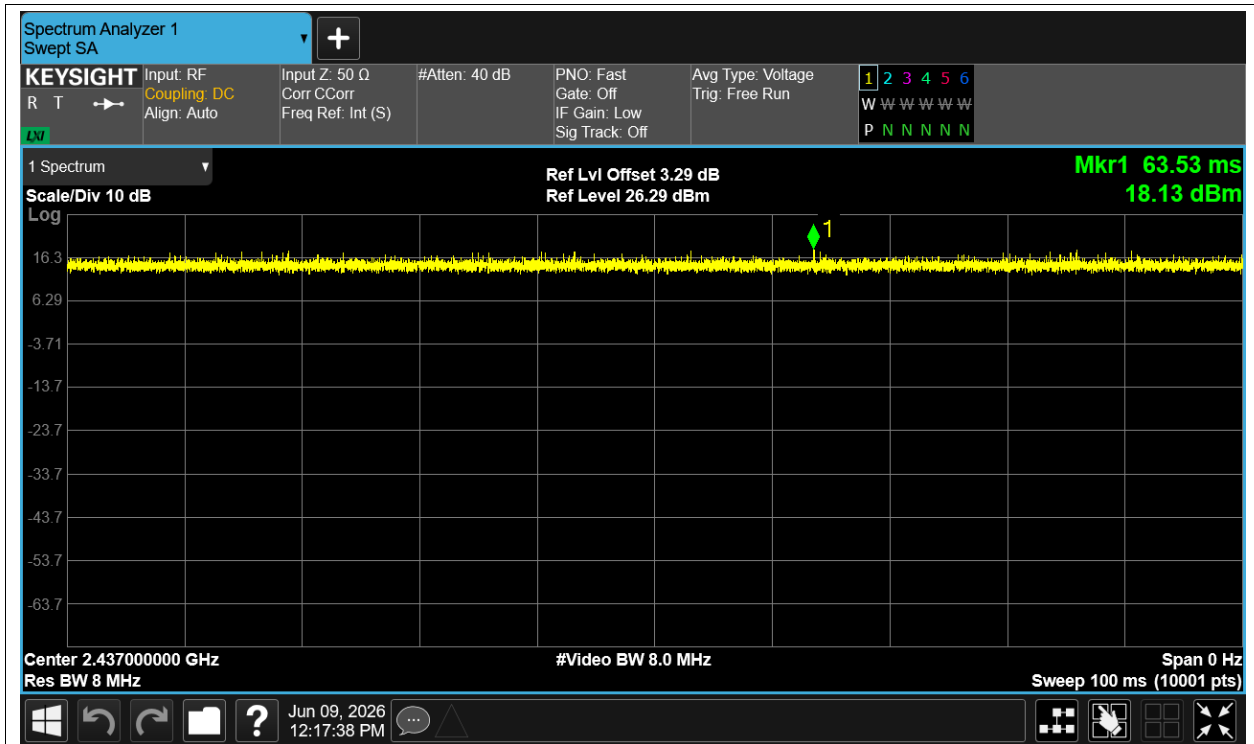
Duty Cycle NVNT n20 2462MHz Sum



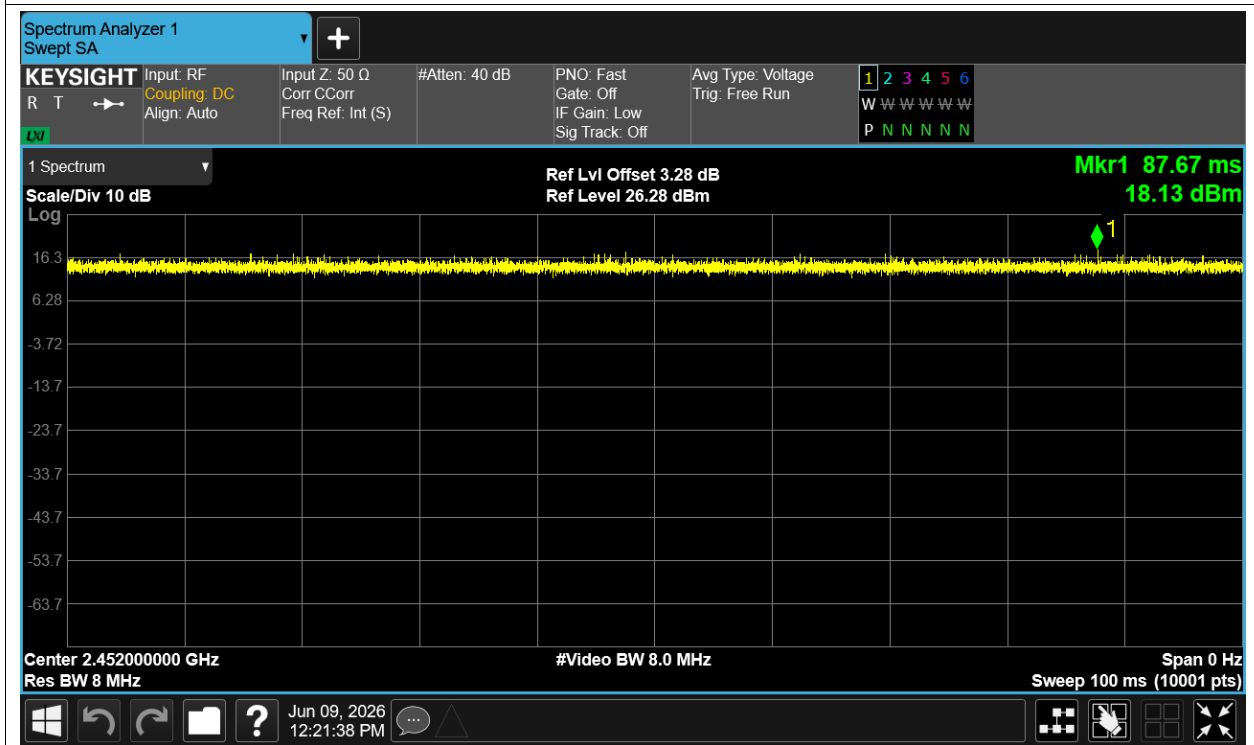
Duty Cycle NVNT n40 2422MHz Sum



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	17.97	0	17.97	30	Pass
NVNT	b	2437	Ant1	18	0	18	30	Pass
NVNT	b	2462	Ant1	18.76	0	18.76	30	Pass
NVNT	b	2412	Ant2	17.81	0	17.81	30	Pass
NVNT	b	2437	Ant2	17.45	0	17.45	30	Pass
NVNT	b	2462	Ant2	18.06	0	18.06	30	Pass
NVNT	g	2412	Ant1	14.85	0	14.85	30	Pass
NVNT	g	2437	Ant1	14.67	0	14.67	30	Pass
NVNT	g	2462	Ant1	15.67	0	15.67	30	Pass
NVNT	g	2412	Ant2	14.98	0	14.98	30	Pass
NVNT	g	2437	Ant2	14.12	0	14.12	30	Pass
NVNT	g	2462	Ant2	15.12	0	15.12	30	Pass
NVNT	n20	2412	Ant1	13.32	0	13.32	29.01	Pass
NVNT	n20	2412	Ant2	13.25	0	13.25	29.01	Pass
NVNT	n20	2412	Sum	16.295	0	16.295	29.01	Pass
NVNT	n20	2437	Ant1	12.93	0	12.93	29.01	Pass
NVNT	n20	2437	Ant2	12.13	0	12.13	29.01	Pass
NVNT	n20	2437	Sum	15.559	0	15.559	29.01	Pass
NVNT	n20	2462	Ant1	13.08	0	13.08	29.01	Pass
NVNT	n20	2462	Ant2	13.25	0	13.25	29.01	Pass
NVNT	n20	2462	Sum	16.176	0	16.176	29.01	Pass
NVNT	n40	2422	Ant1	12.44	0	12.44	29.01	Pass
NVNT	n40	2422	Ant2	12.72	0	12.72	29.01	Pass
NVNT	n40	2422	Sum	15.593	0	15.593	29.01	Pass
NVNT	n40	2437	Ant1	12.87	0	12.87	29.01	Pass
NVNT	n40	2437	Ant2	11.91	0	11.91	29.01	Pass
NVNT	n40	2437	Sum	15.427	0	15.427	29.01	Pass
NVNT	n40	2452	Ant1	13.2	0	13.2	29.01	Pass
NVNT	n40	2452	Ant2	12.4	0	12.4	29.01	Pass
NVNT	n40	2452	Sum	15.829	0	15.829	29.01	Pass

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

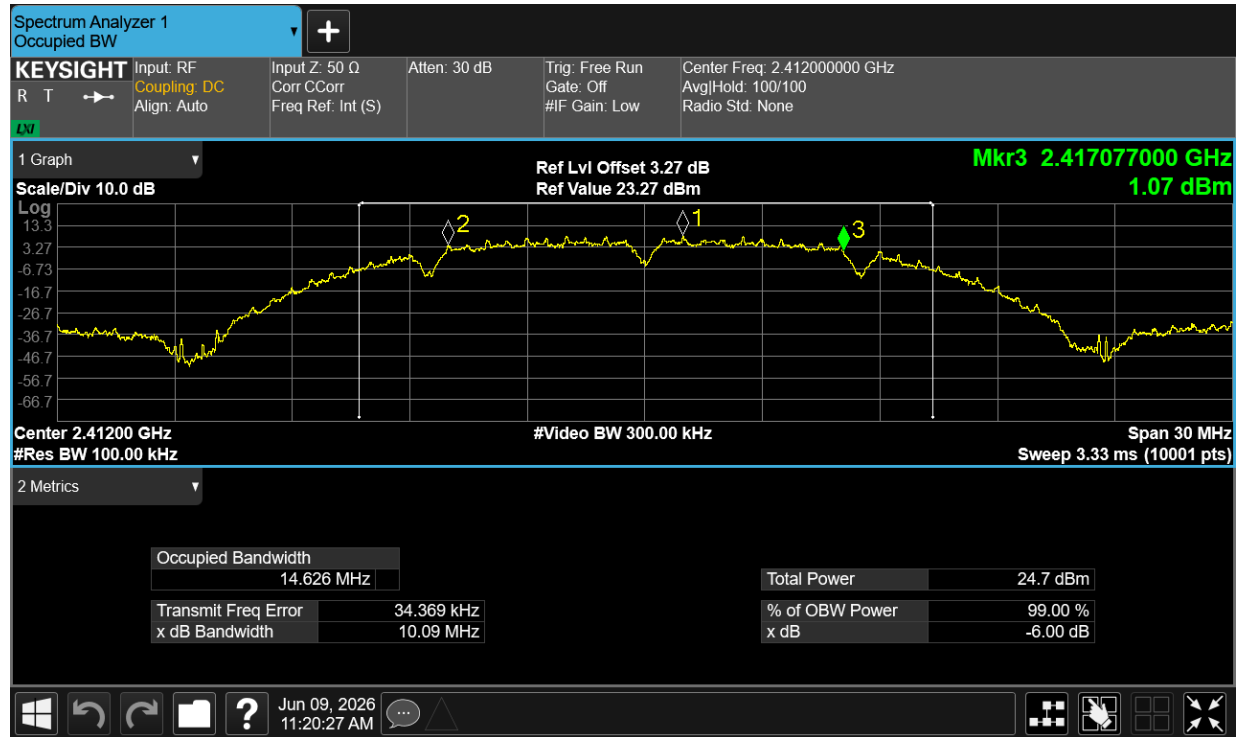
For MIMO mode: ant gain is $3.98+10*\log_{10}(2) = 3.98+3.01=6.99$ dBi, the limit is $30-(6.99-6) = 29.01$ dbm.

-6dB Bandwidth

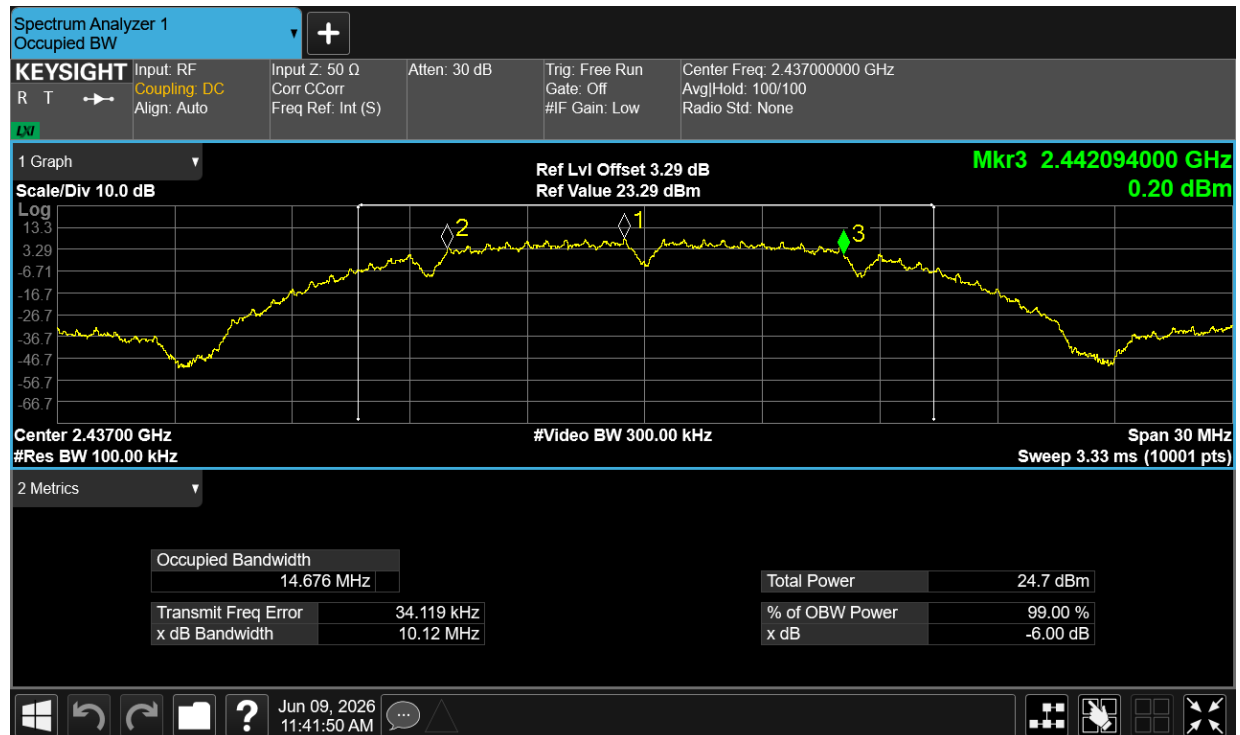
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit (MHz)	Verdic
NVNT	b	2412	Ant1	10.086	0.5	Pass
NVNT	b	2437	Ant1	10.121	0.5	Pass
NVNT	b	2462	Ant1	10.054	0.5	Pass
NVNT	b	2412	Ant2	10.087	0.5	Pass
NVNT	b	2437	Ant2	10.111	0.5	Pass
NVNT	b	2462	Ant2	10.035	0.5	Pass
NVNT	g	2412	Ant1	16.319	0.5	Pass
NVNT	g	2437	Ant1	16.315	0.5	Pass
NVNT	g	2462	Ant1	16.286	0.5	Pass
NVNT	g	2412	Ant2	16.324	0.5	Pass
NVNT	g	2437	Ant2	16.314	0.5	Pass
NVNT	g	2462	Ant2	16.31	0.5	Pass
NVNT	n20	2412	Ant1	16.874	0.5	Pass
NVNT	n20	2412	Ant2	17.552	0.5	Pass
NVNT	n20	2437	Ant1	17.166	0.5	Pass
NVNT	n20	2437	Ant2	17.316	0.5	Pass
NVNT	n20	2462	Ant1	16.966	0.5	Pass
NVNT	n20	2462	Ant2	17.304	0.5	Pass
NVNT	n40	2422	Ant1	35.029	0.5	Pass
NVNT	n40	2422	Ant2	35.274	0.5	Pass
NVNT	n40	2437	Ant1	35.416	0.5	Pass
NVNT	n40	2437	Ant2	35.911	0.5	Pass
NVNT	n40	2452	Ant1	35.676	0.5	Pass
NVNT	n40	2452	Ant2	35.315	0.5	Pass

Test Graphs

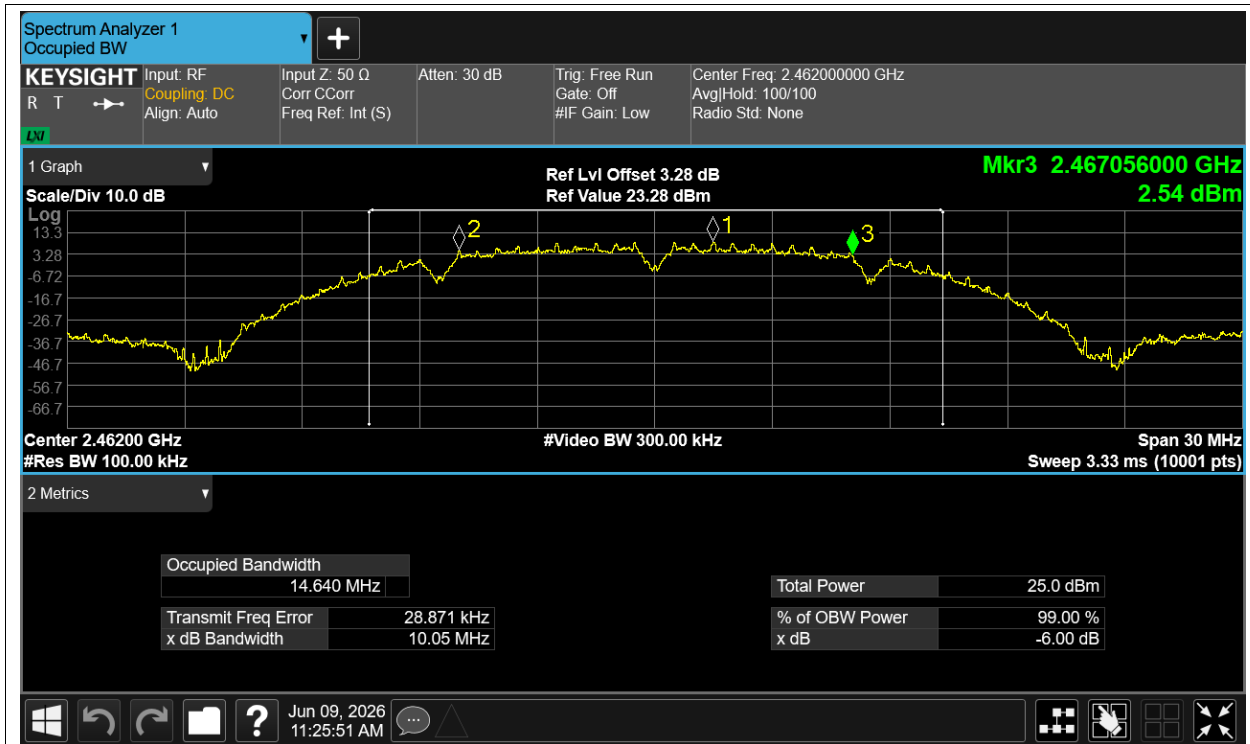
-6dB Bandwidth NVNT b 2412MHz Ant1



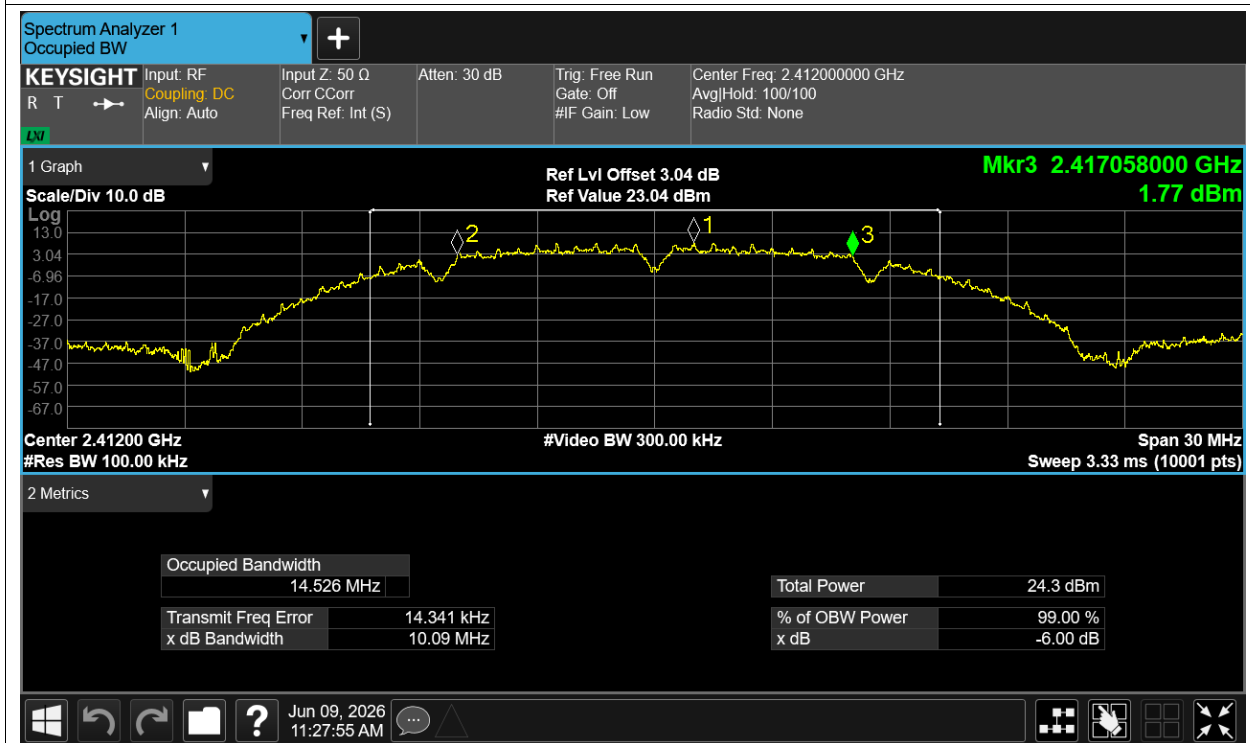
-6dB Bandwidth NVNT b 2437MHz Ant1



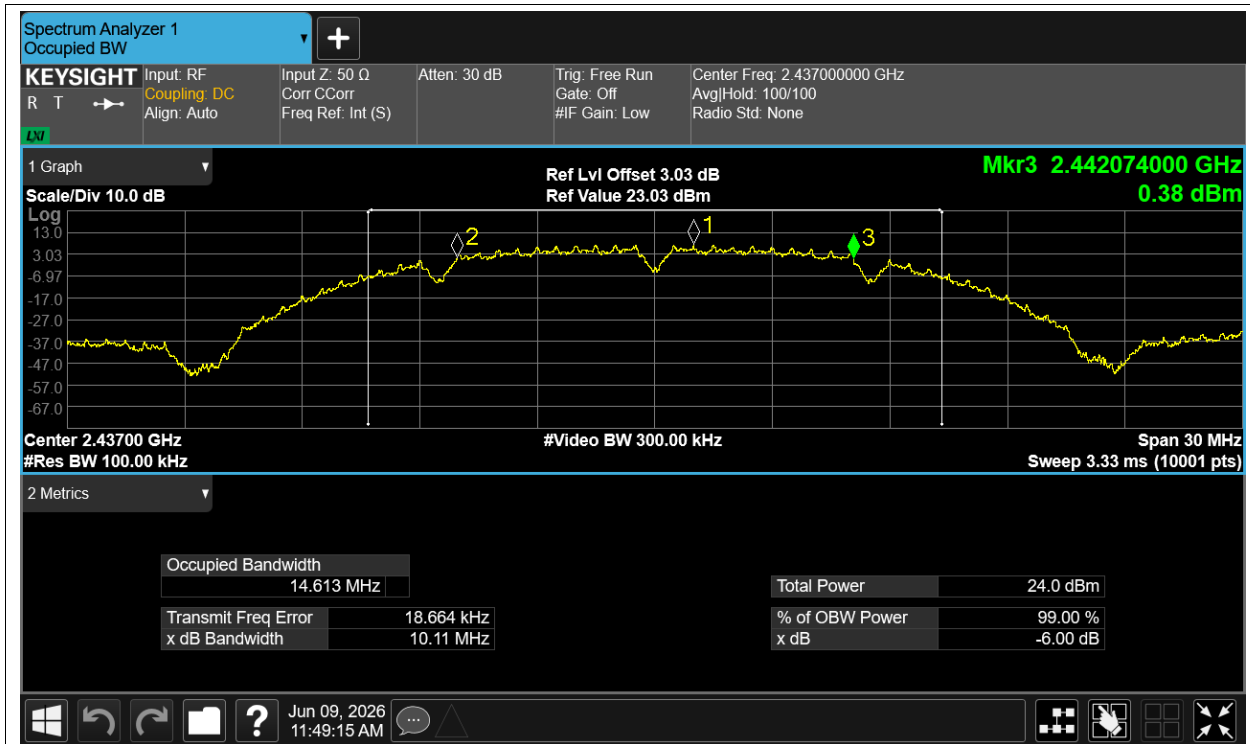
-6dB Bandwidth NVNT b 2462MHz Ant1



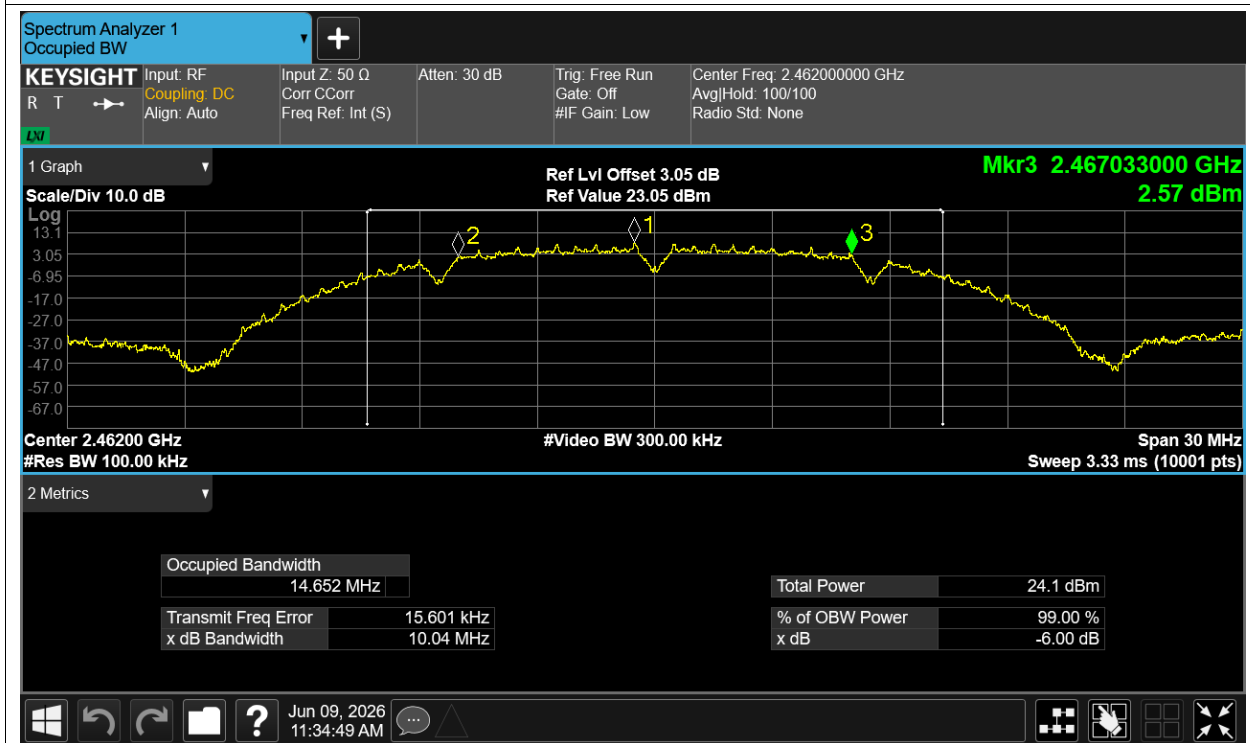
-6dB Bandwidth NVNT b 2412MHz Ant2



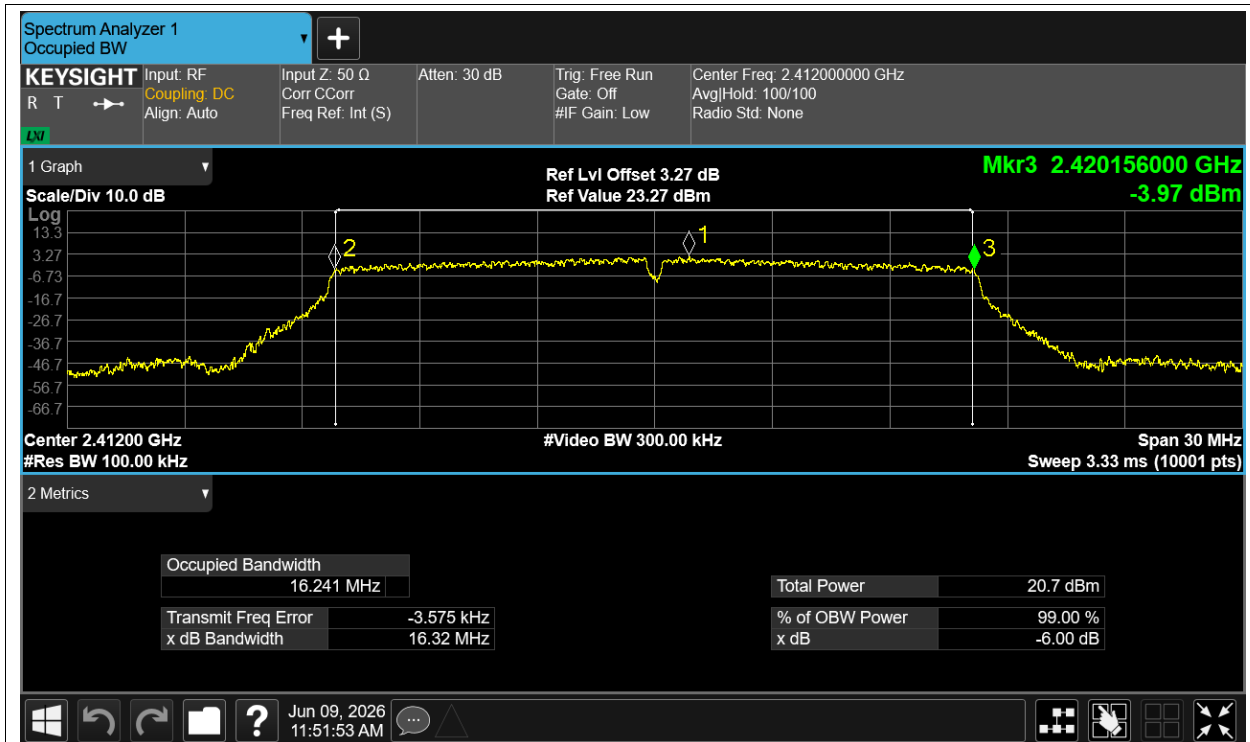
-6dB Bandwidth NVNT b 2437MHz Ant2



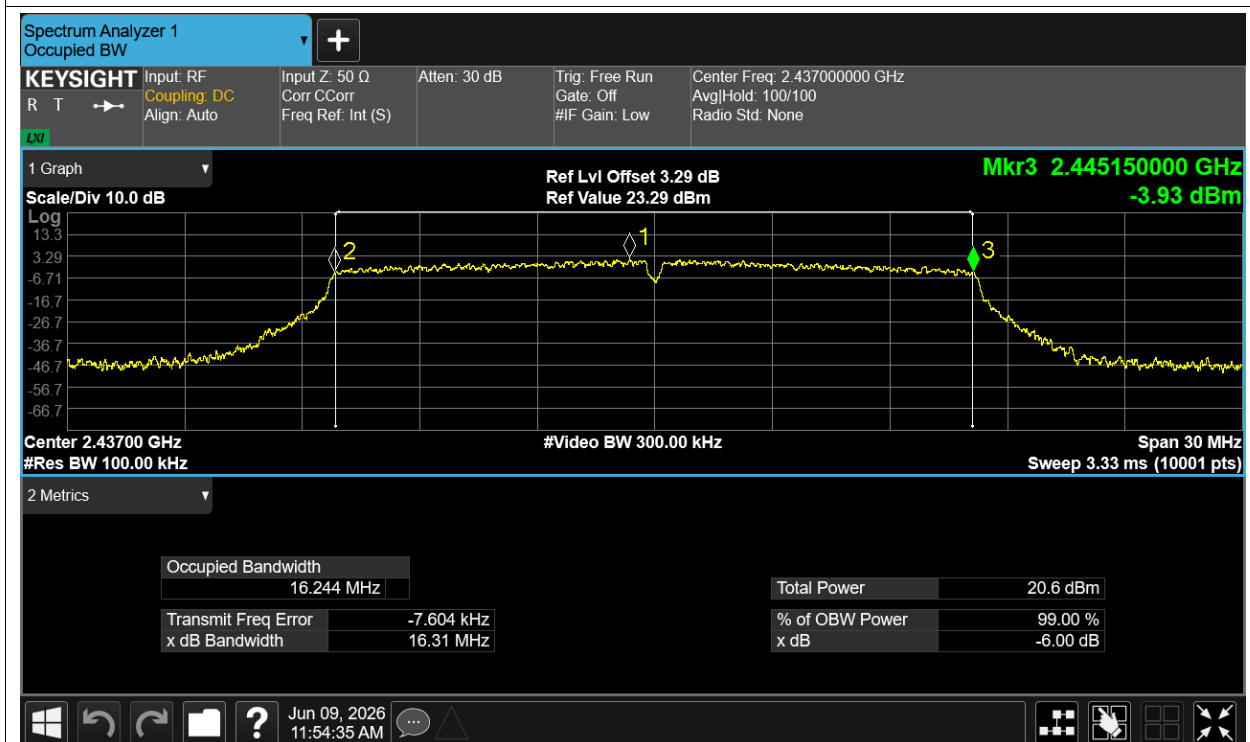
-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1



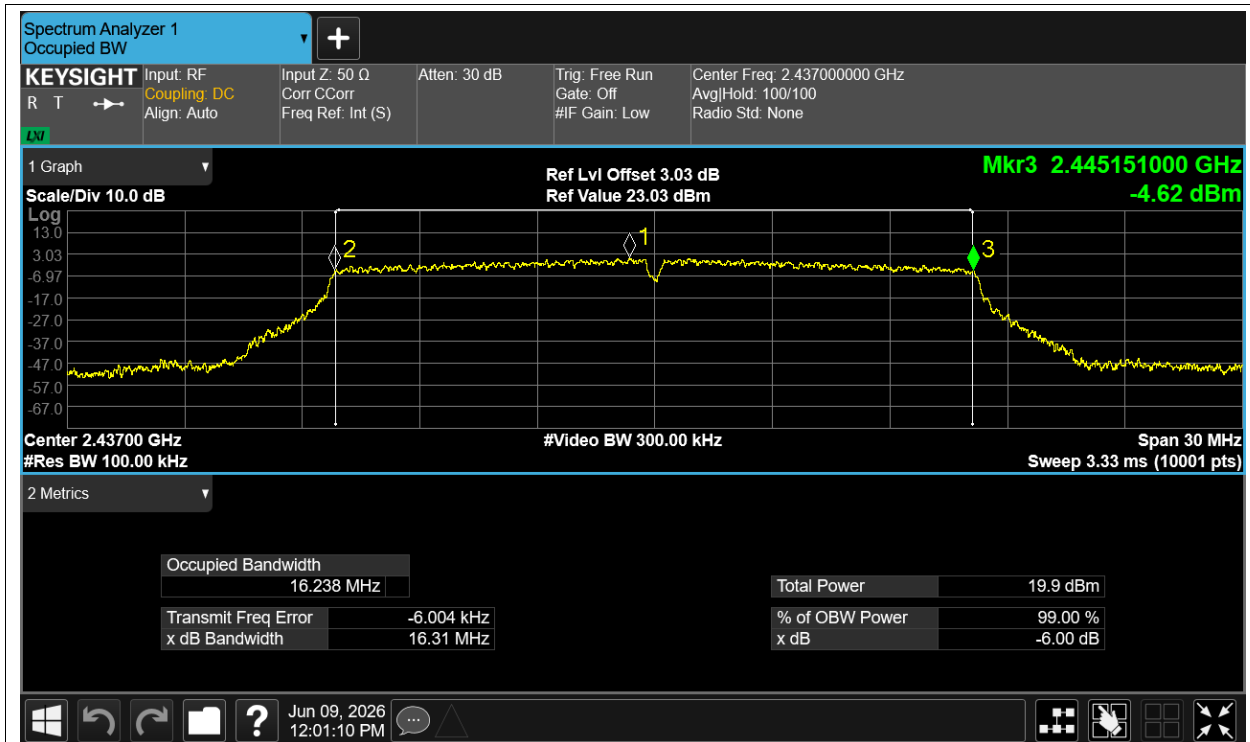
-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant2



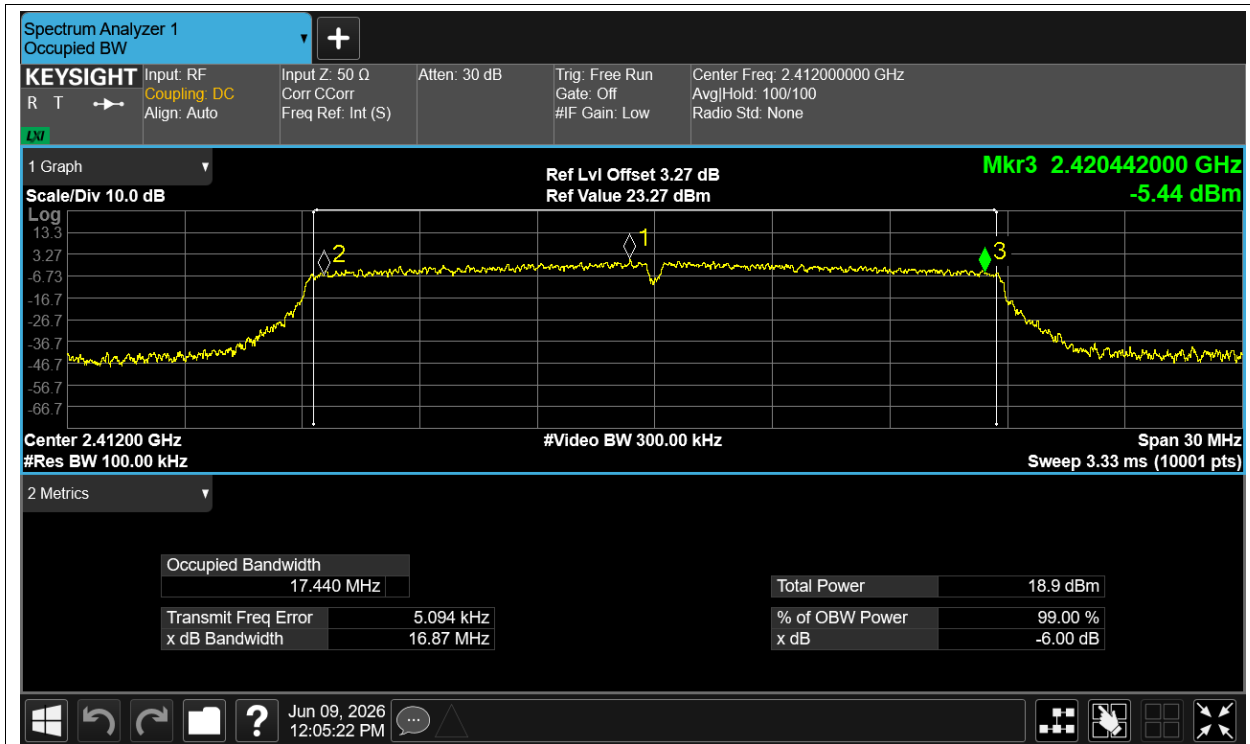
-6dB Bandwidth NVNT g 2437MHz Ant2



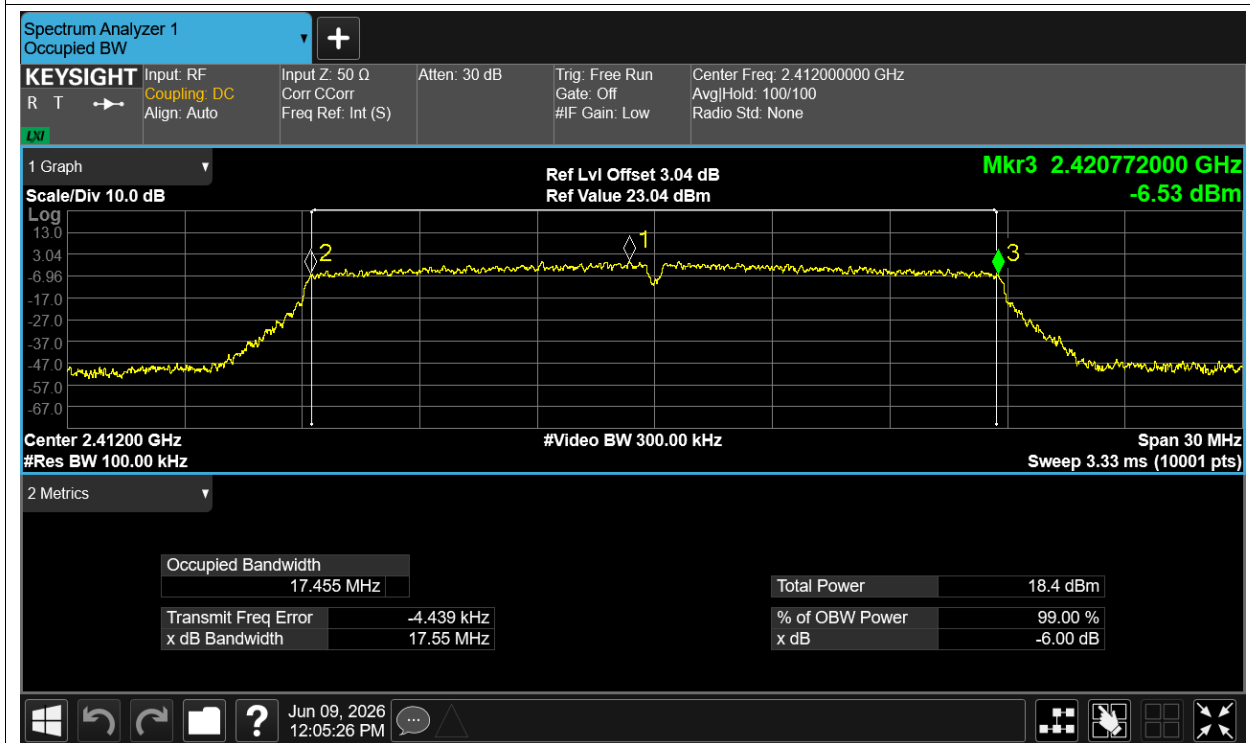
-6dB Bandwidth NVNT g 2462MHz Ant2



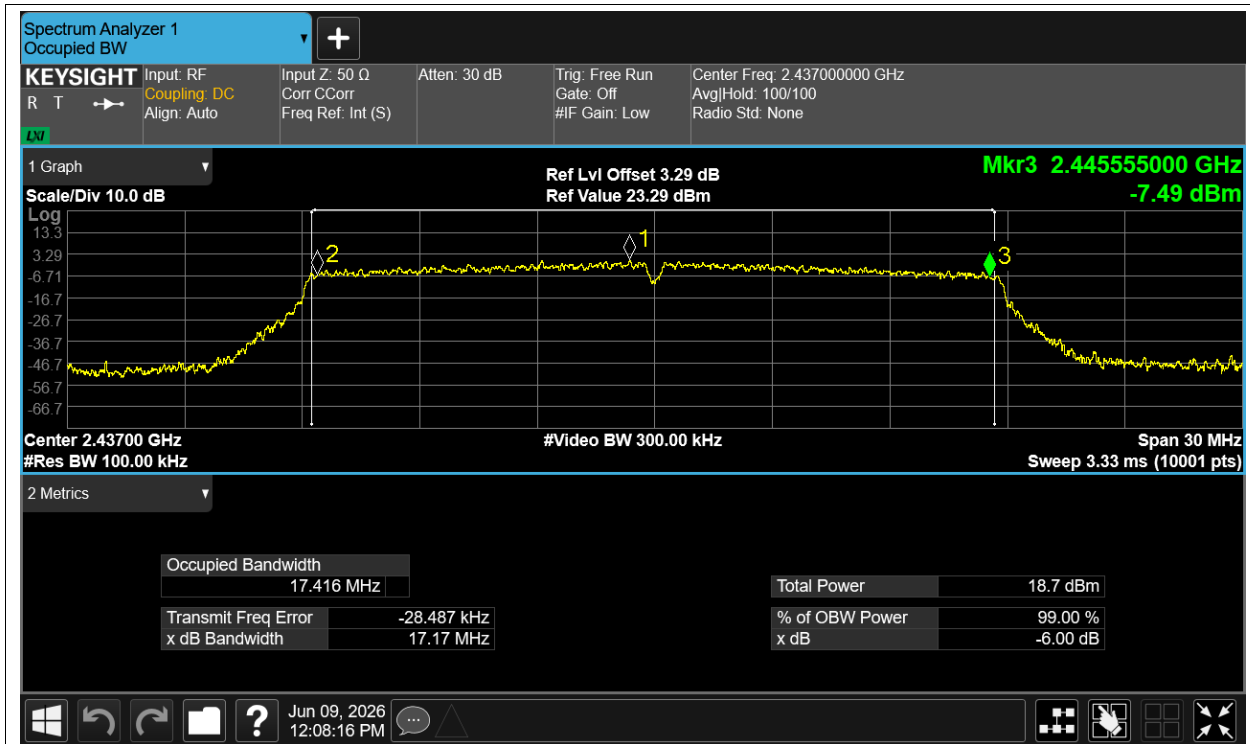
-6dB Bandwidth NVNT n20 2412MHz Ant1



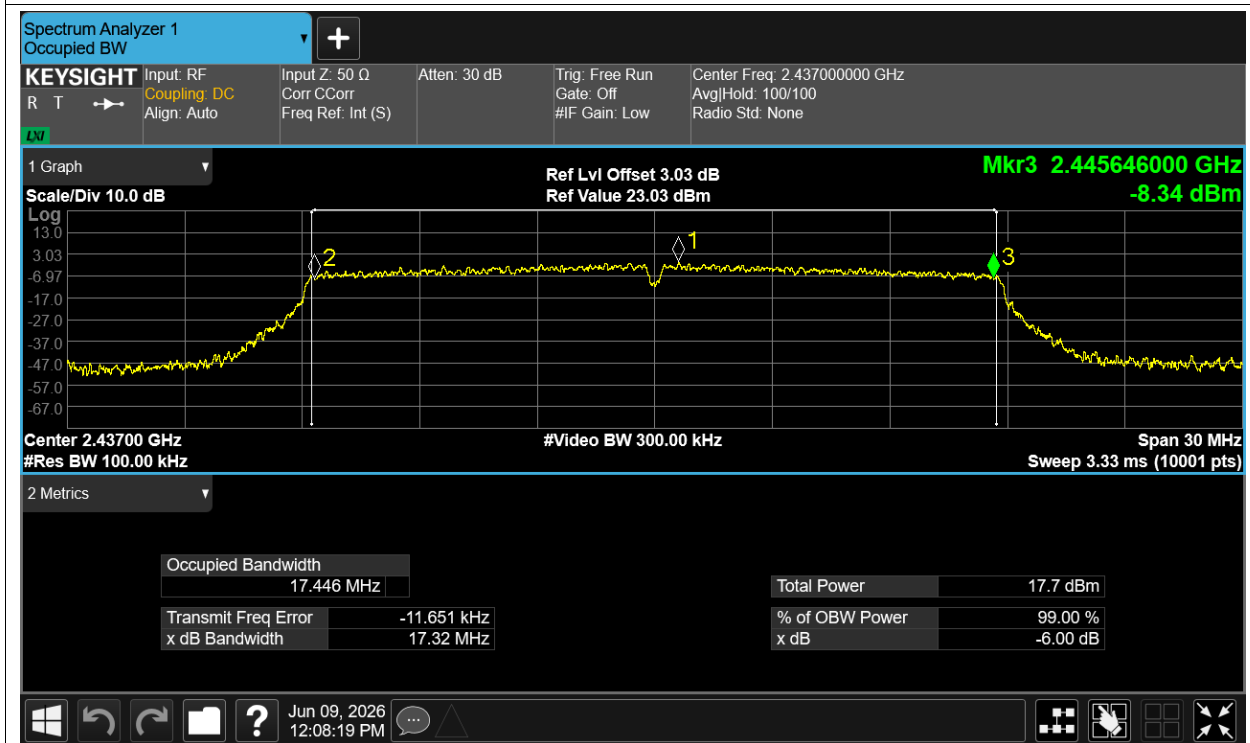
-6dB Bandwidth NVNT n20 2412MHz Ant2



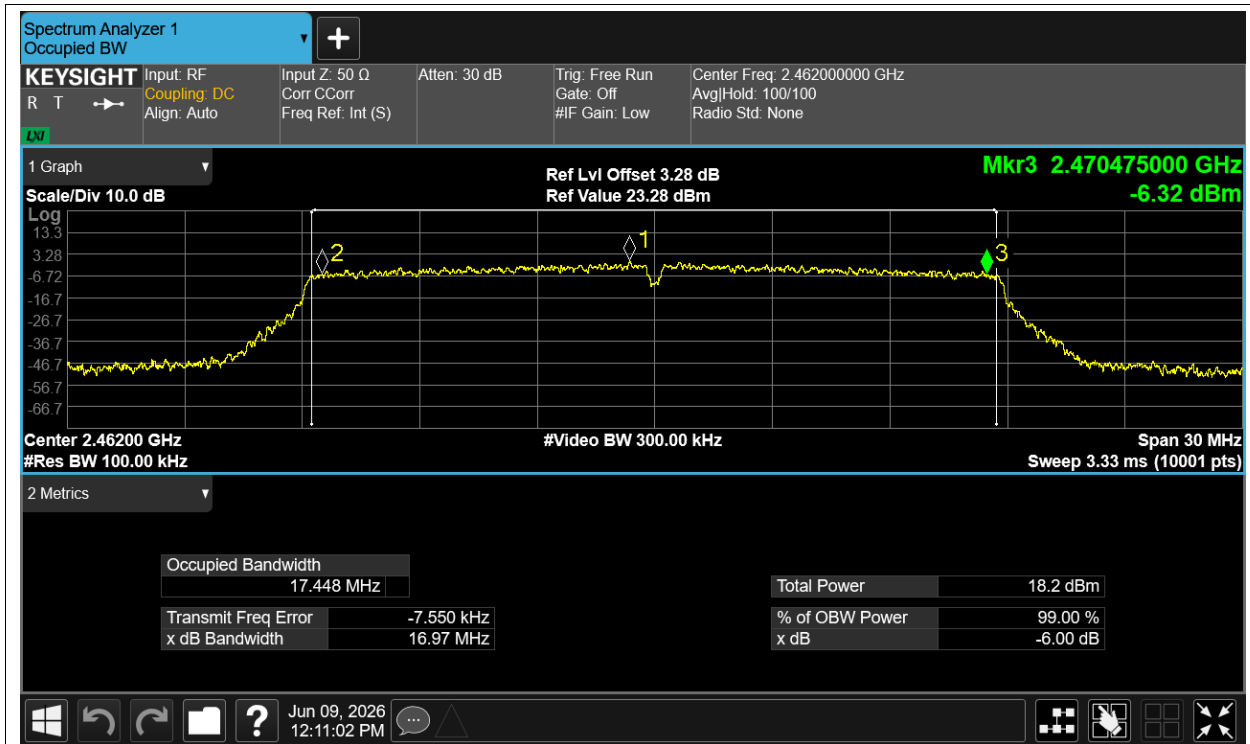
-6dB Bandwidth NVNT n20 2437MHz Ant1



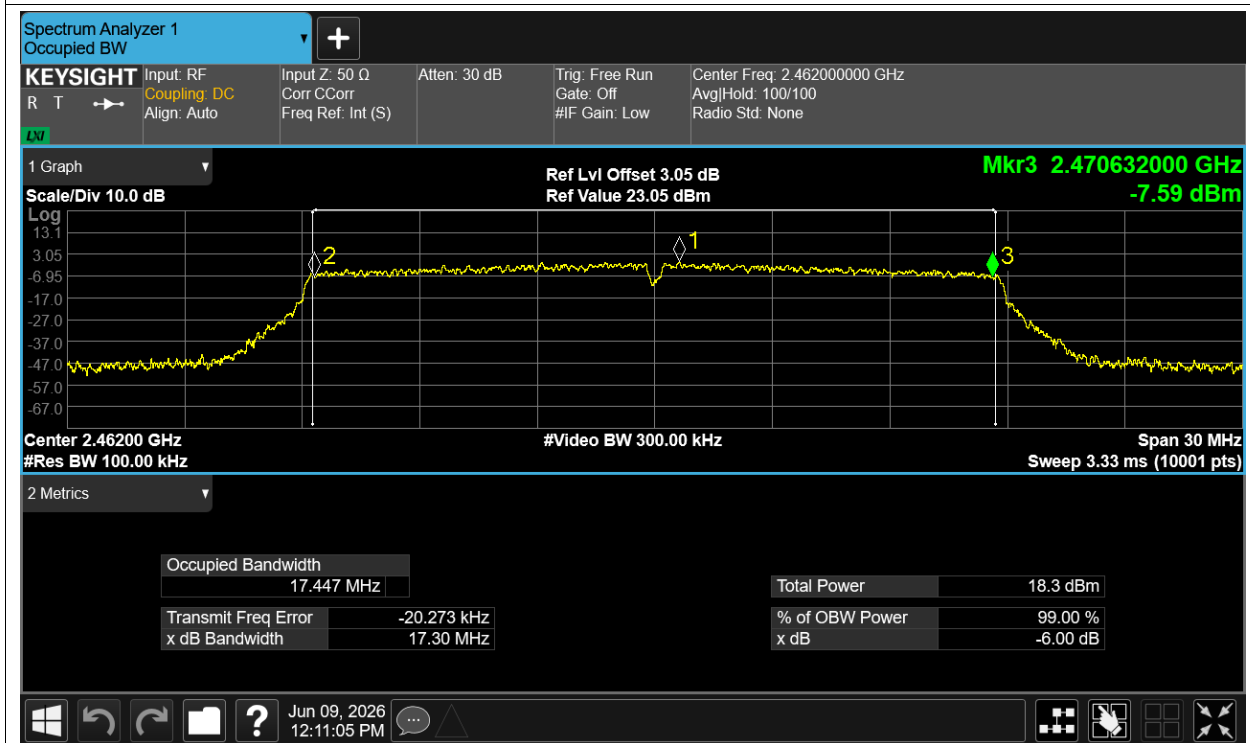
-6dB Bandwidth NVNT n20 2437MHz Ant2



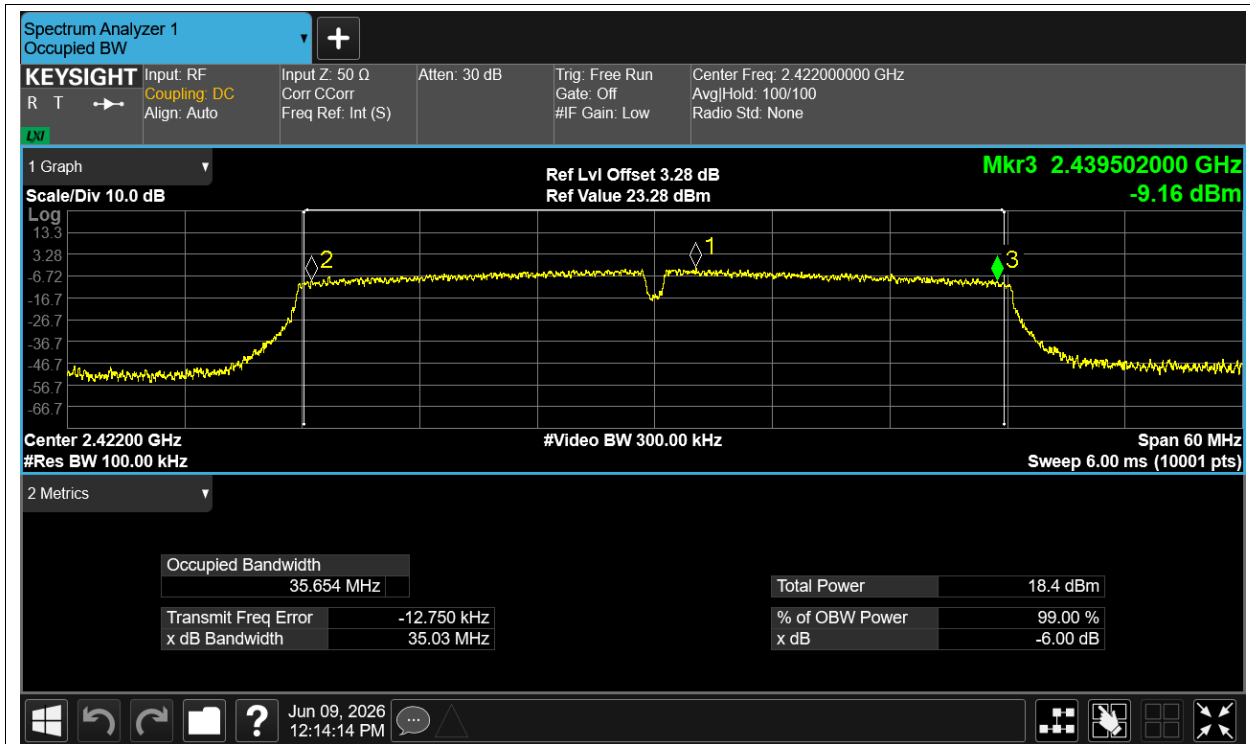
-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant2



-6dB Bandwidth NVNT n40 2422MHz Ant1



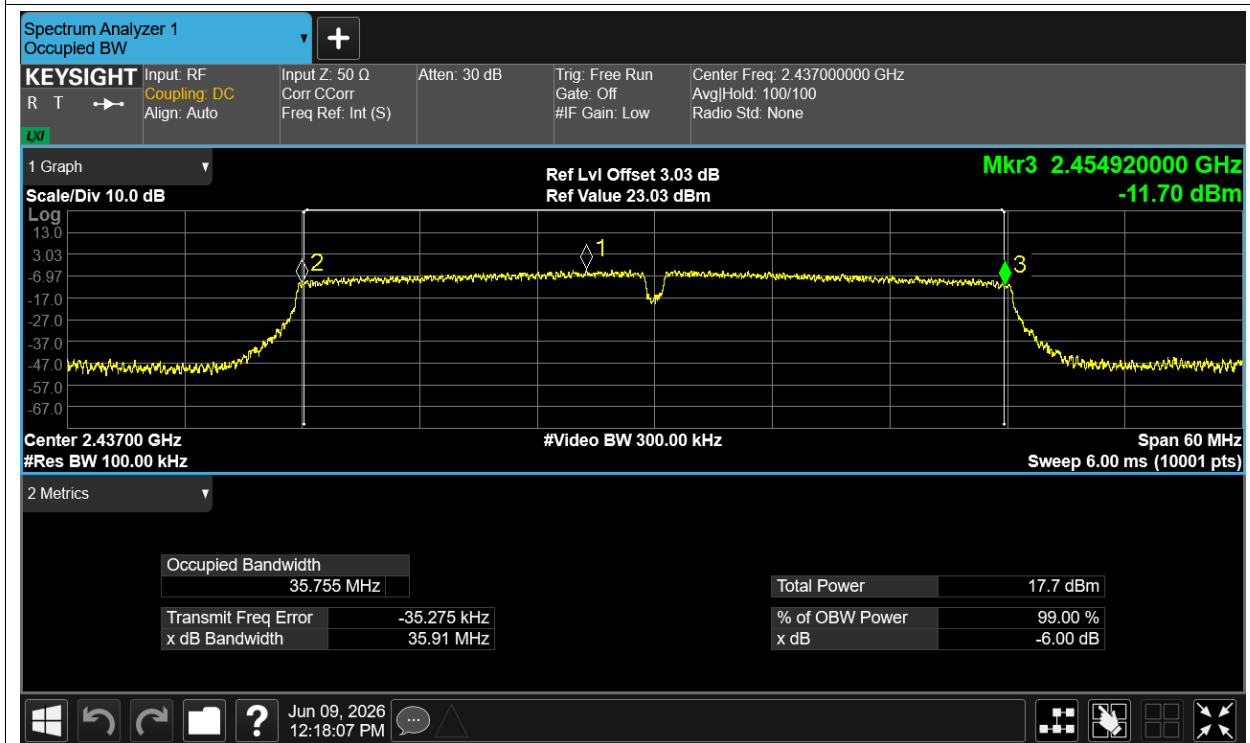
-6dB Bandwidth NVNT n40 2422MHz Ant2



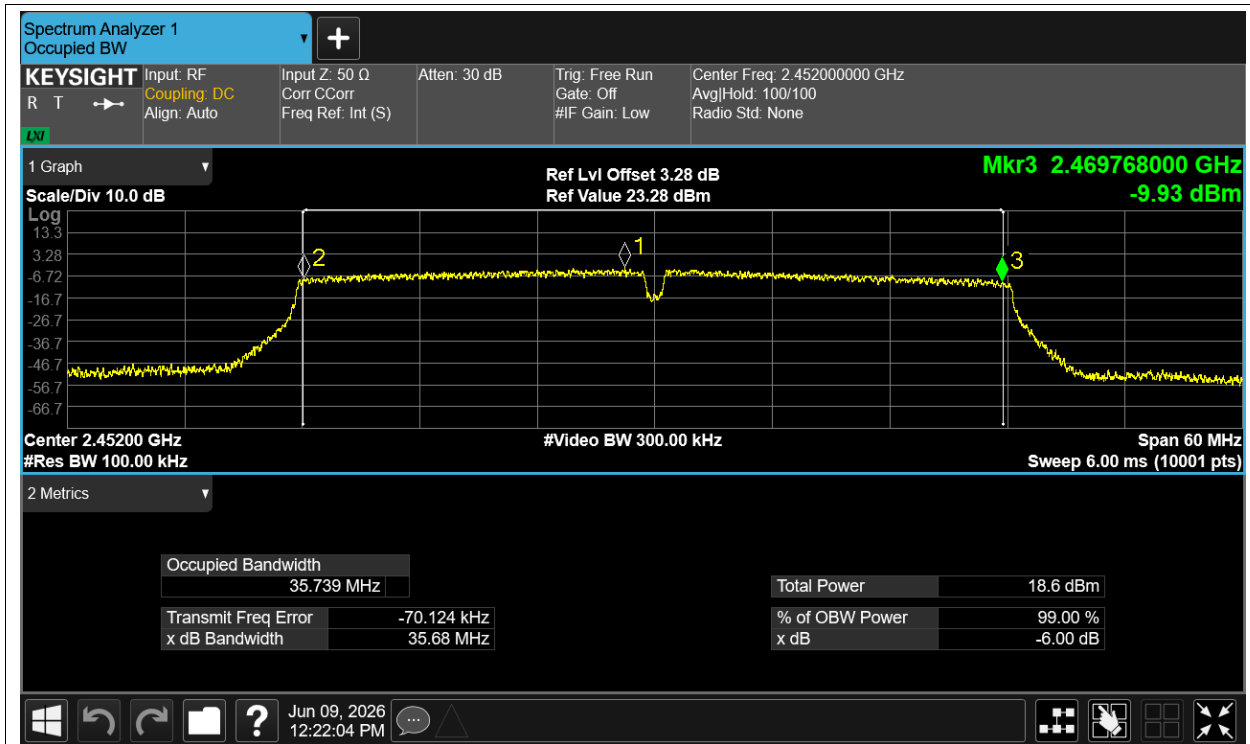
-6dB Bandwidth NVNT n40 2437MHz Ant1



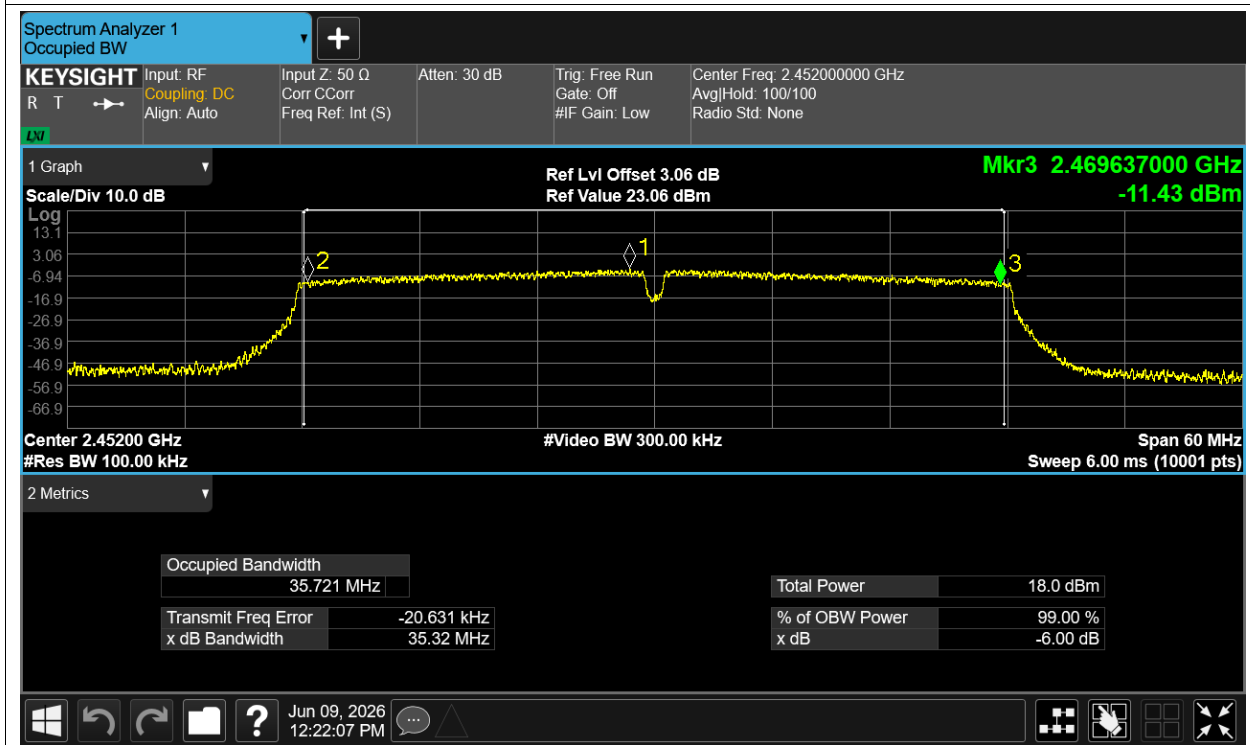
-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant2

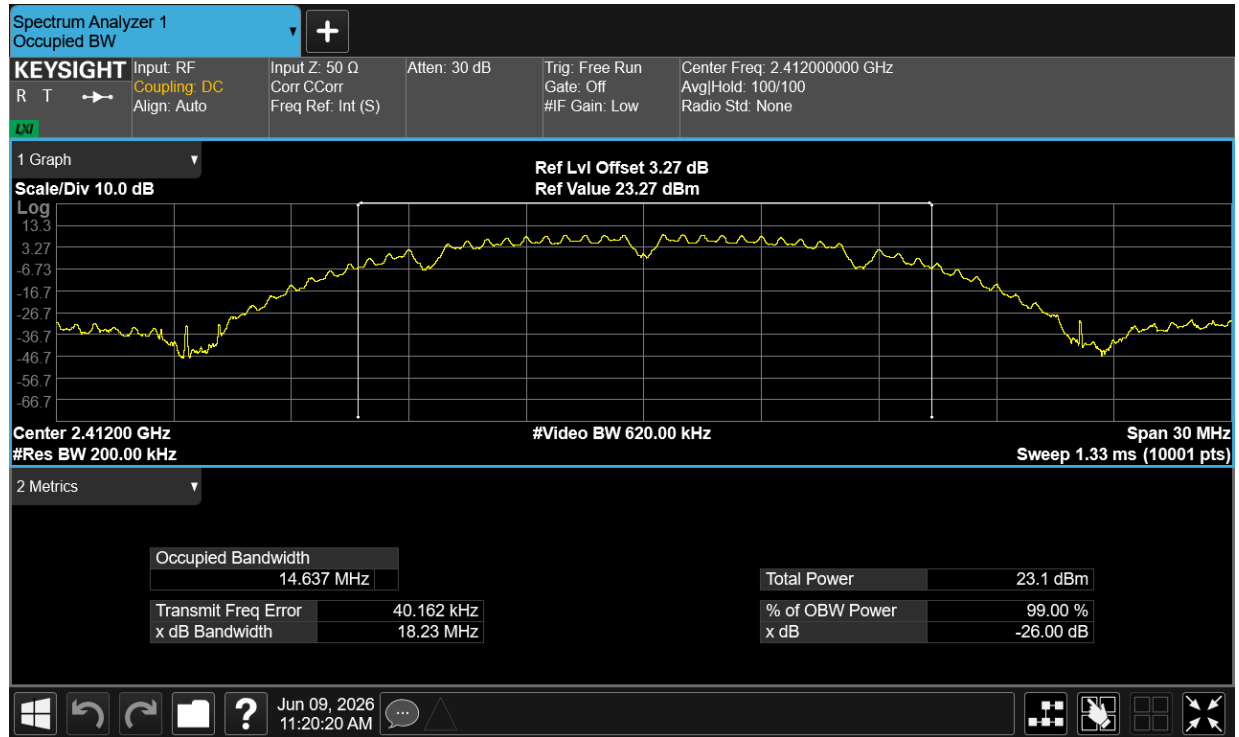


Occupied Channel Bandwidth

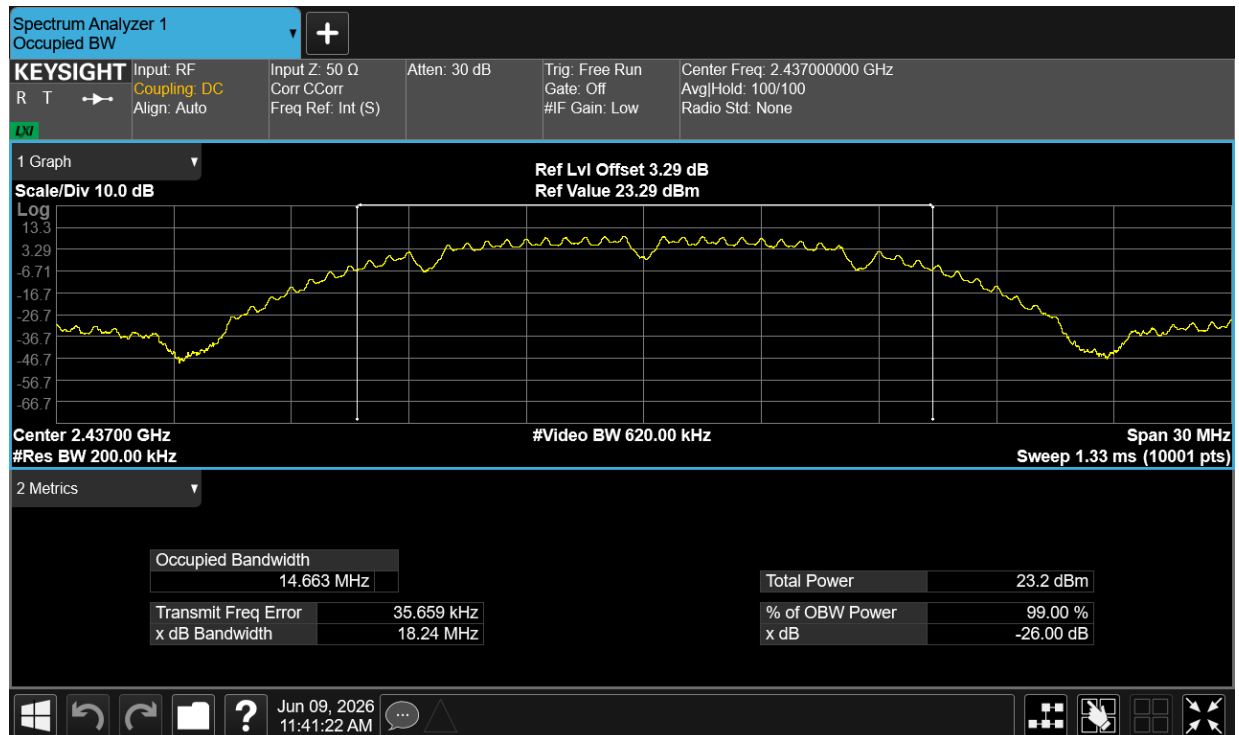
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.637
NVNT	b	2437	Ant1	14.663
NVNT	b	2462	Ant1	14.675
NVNT	b	2412	Ant2	14.59
NVNT	b	2437	Ant2	14.628
NVNT	b	2462	Ant2	14.651
NVNT	g	2412	Ant1	16.207
NVNT	g	2437	Ant1	16.214
NVNT	g	2462	Ant1	16.201
NVNT	g	2412	Ant2	16.205
NVNT	g	2437	Ant2	16.213
NVNT	g	2462	Ant2	16.206
NVNT	n20	2412	Ant1	17.41
NVNT	n20	2412	Ant2	17.408
NVNT	n20	2437	Ant1	17.38
NVNT	n20	2437	Ant2	17.403
NVNT	n20	2462	Ant1	17.419
NVNT	n20	2462	Ant2	17.401
NVNT	n40	2422	Ant1	35.568
NVNT	n40	2422	Ant2	35.649
NVNT	n40	2437	Ant1	35.62
NVNT	n40	2437	Ant2	35.709
NVNT	n40	2452	Ant1	35.649
NVNT	n40	2452	Ant2	35.646

Test Graphs

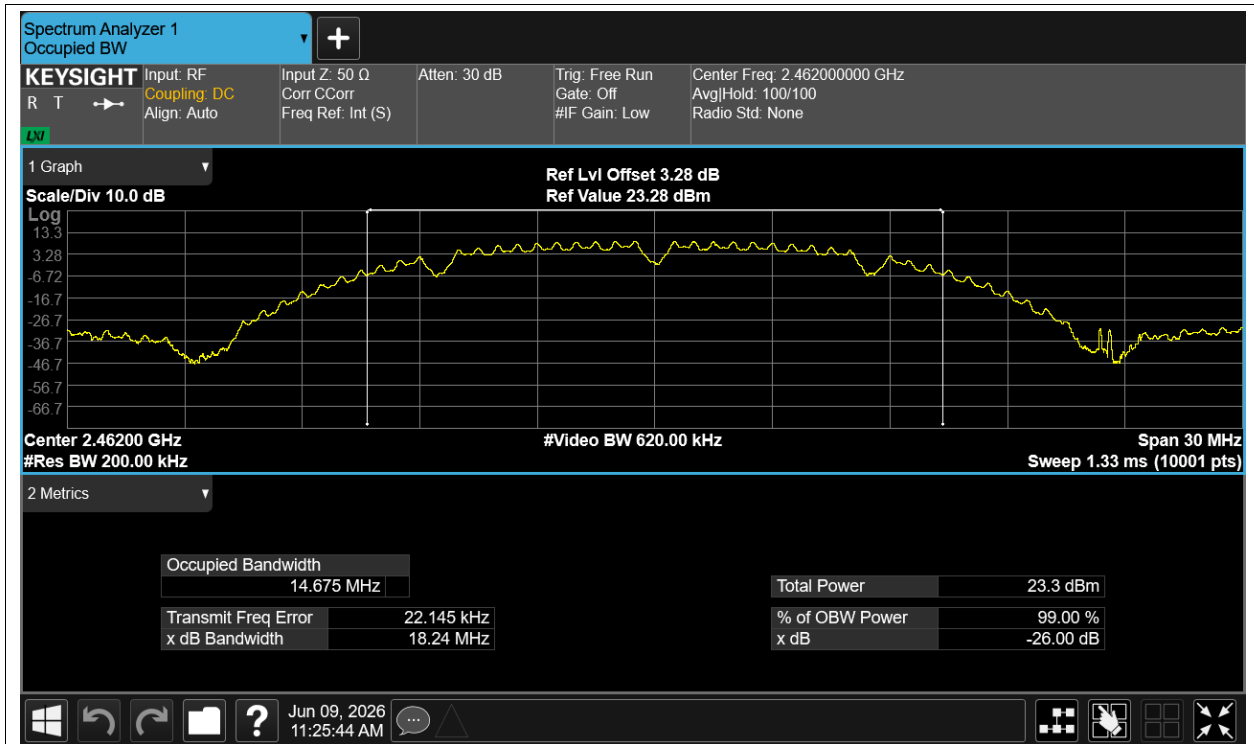
OBW NVNT b 2412MHz Ant1



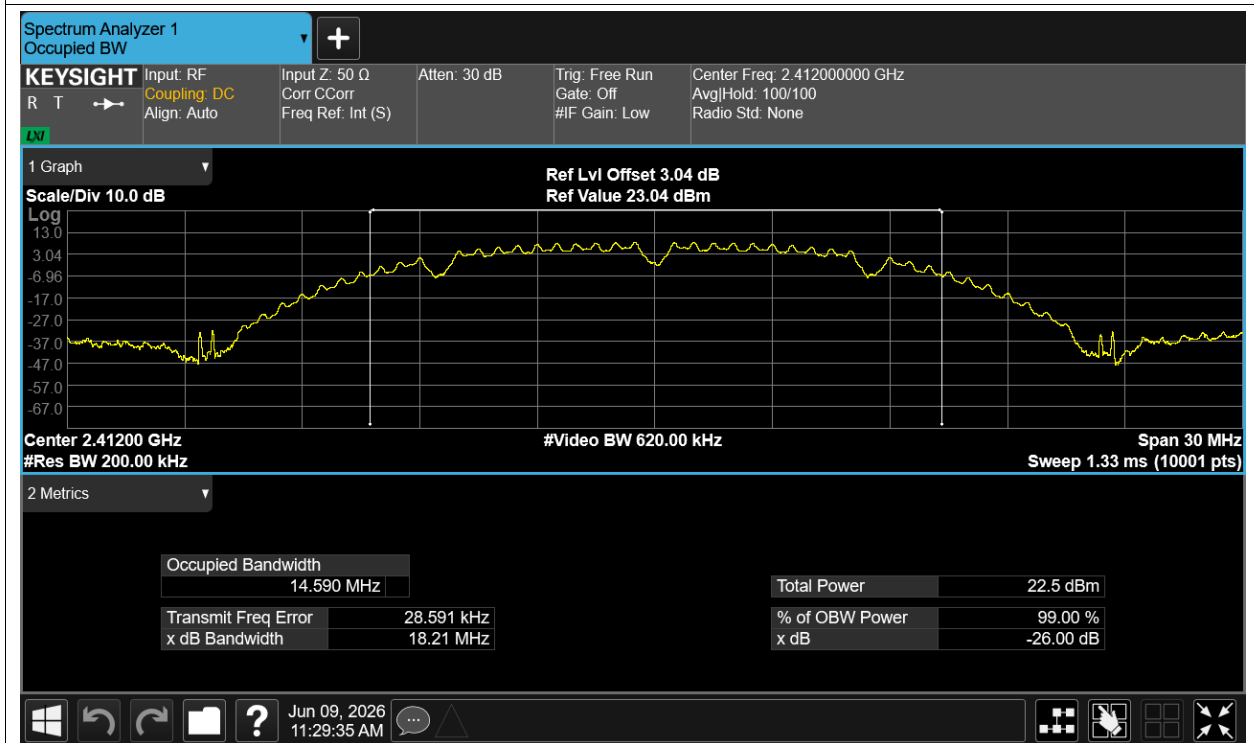
OBW NVNT b 2437MHz Ant1



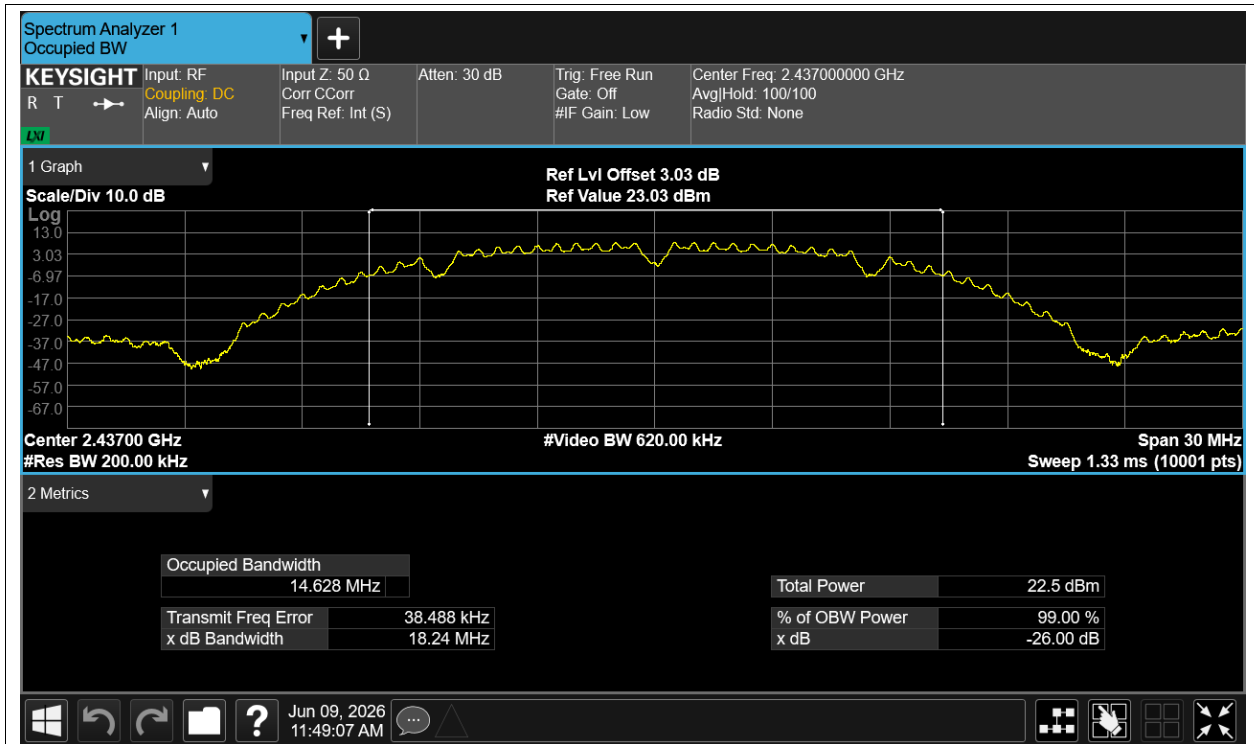
OBW NVNT b 2462MHz Ant1



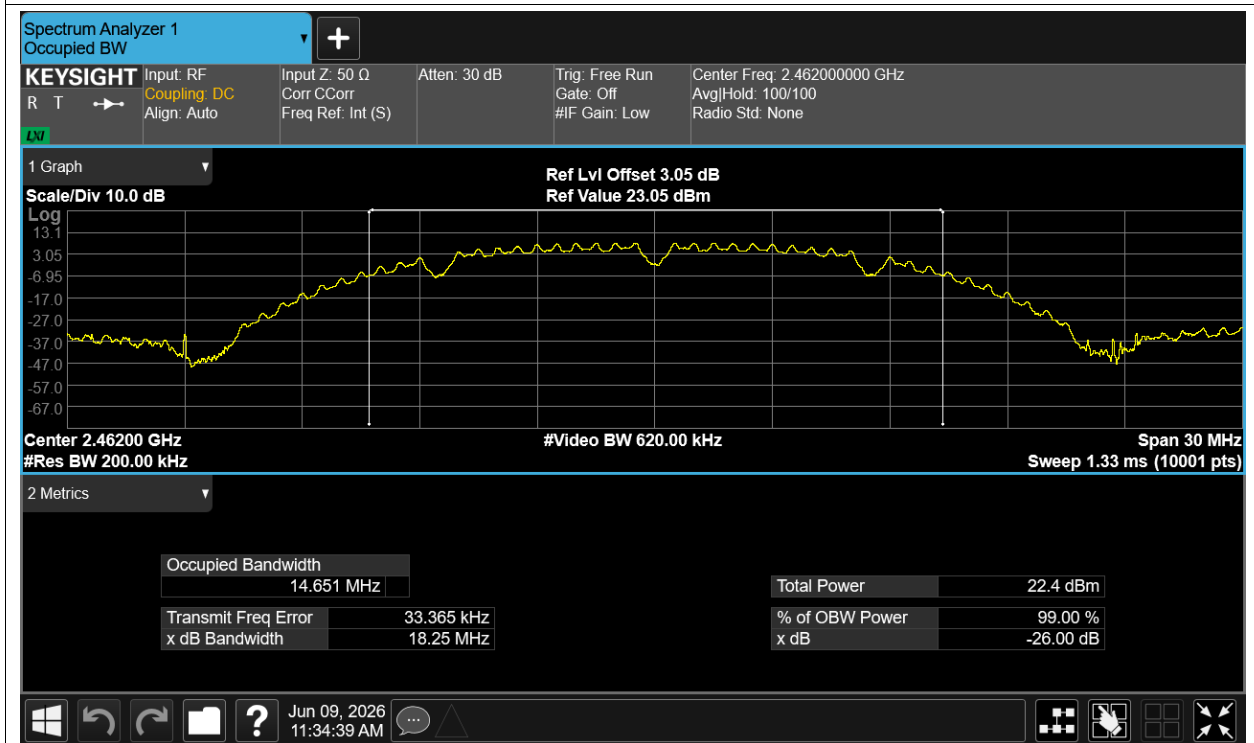
OBW NVNT b 2412MHz Ant2



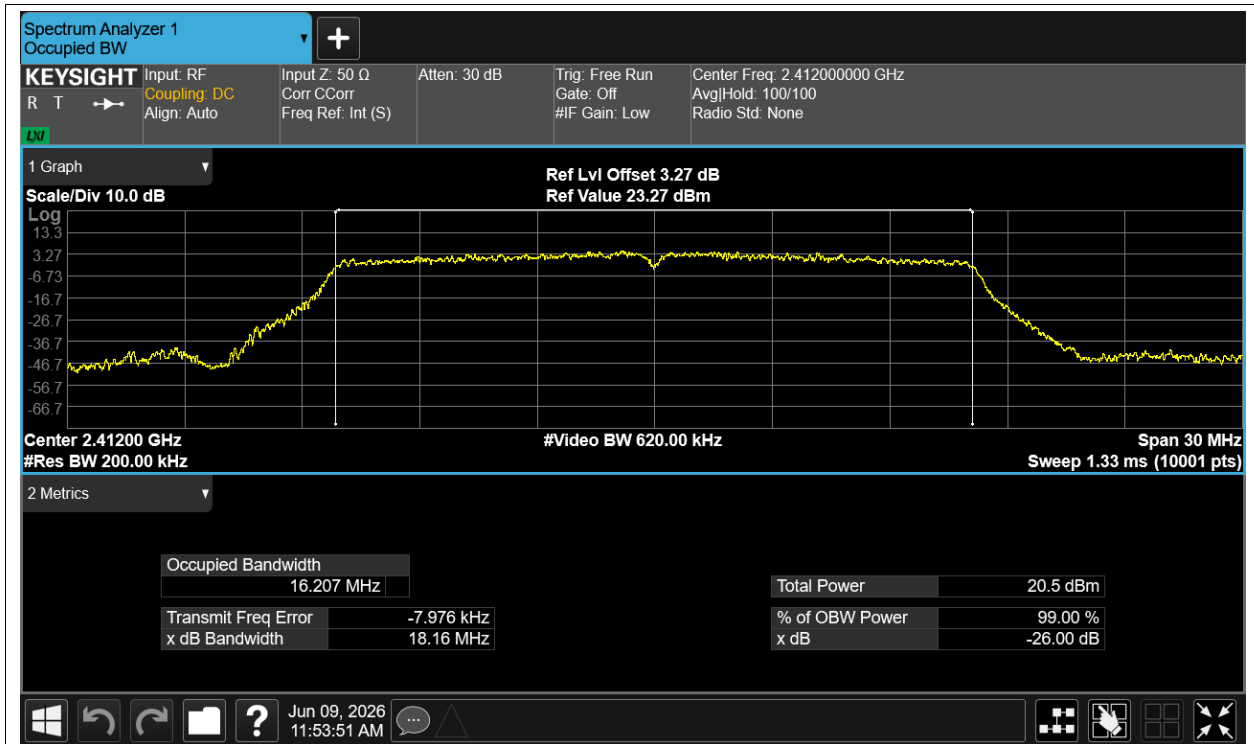
OBW NVNT b 2437MHz Ant2



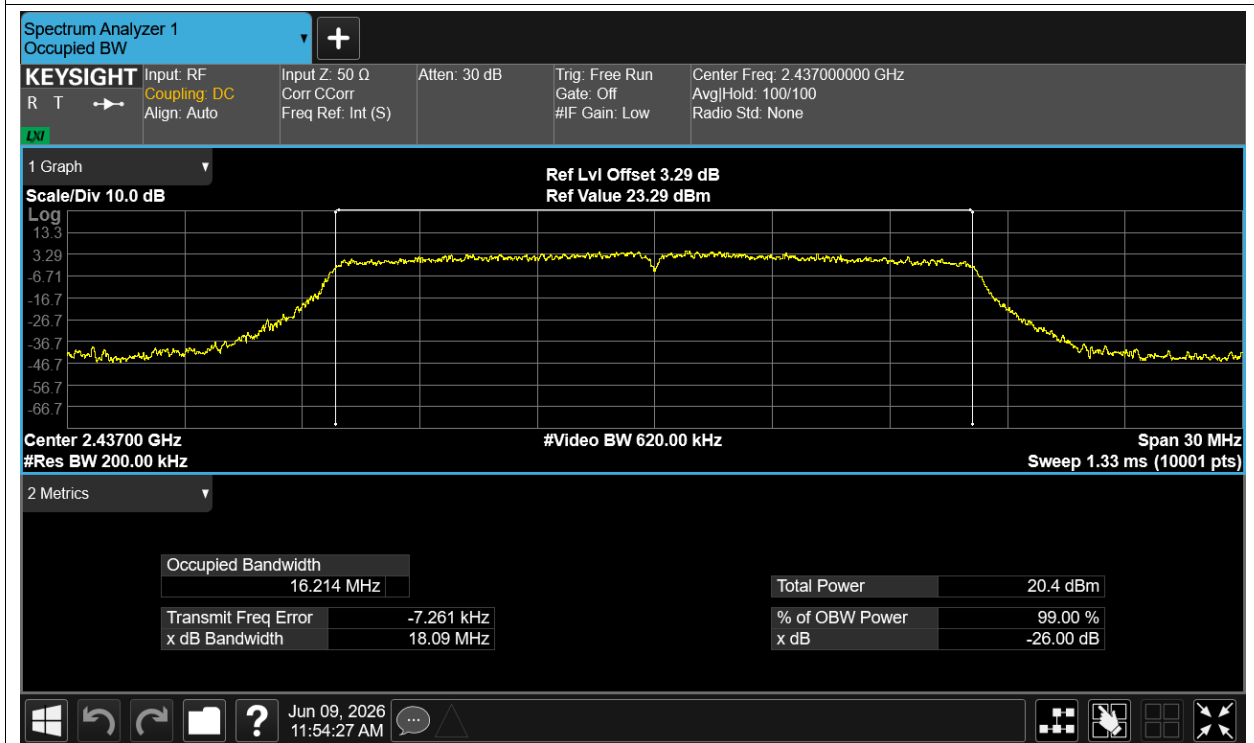
OBW NVNT b 2462MHz Ant2



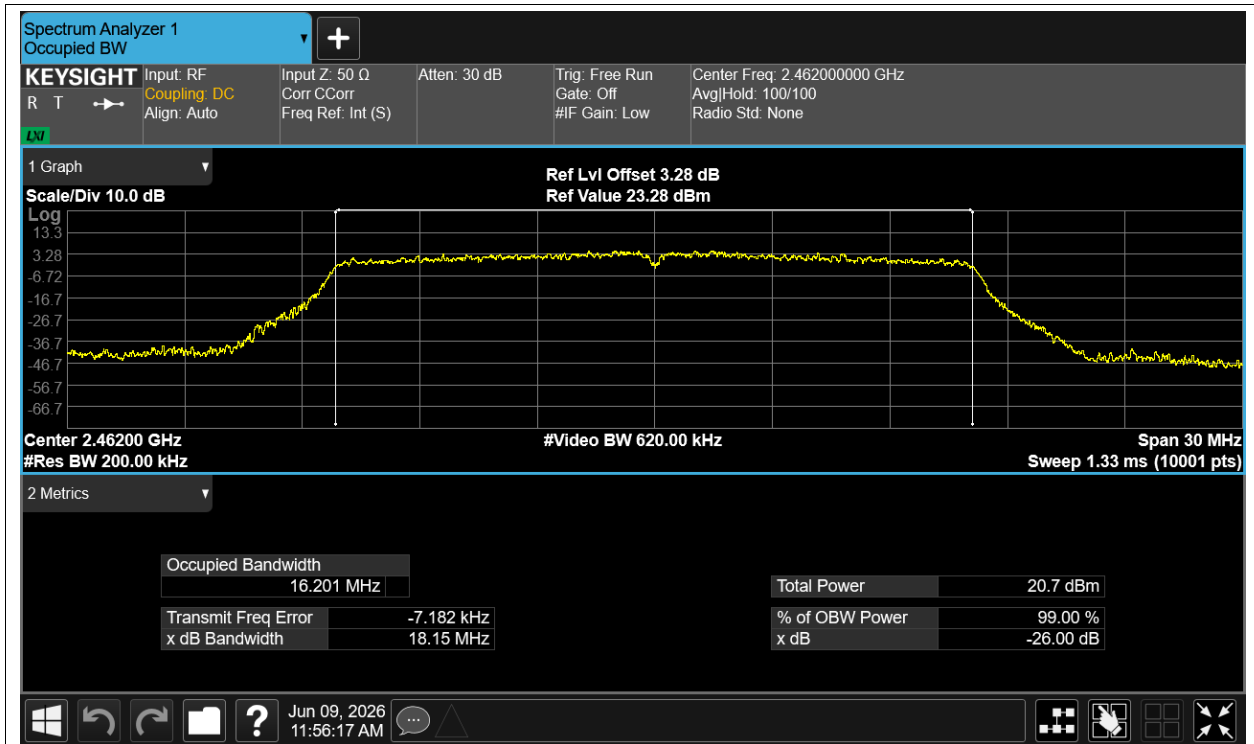
OBW NVNT g 2412MHz Ant1



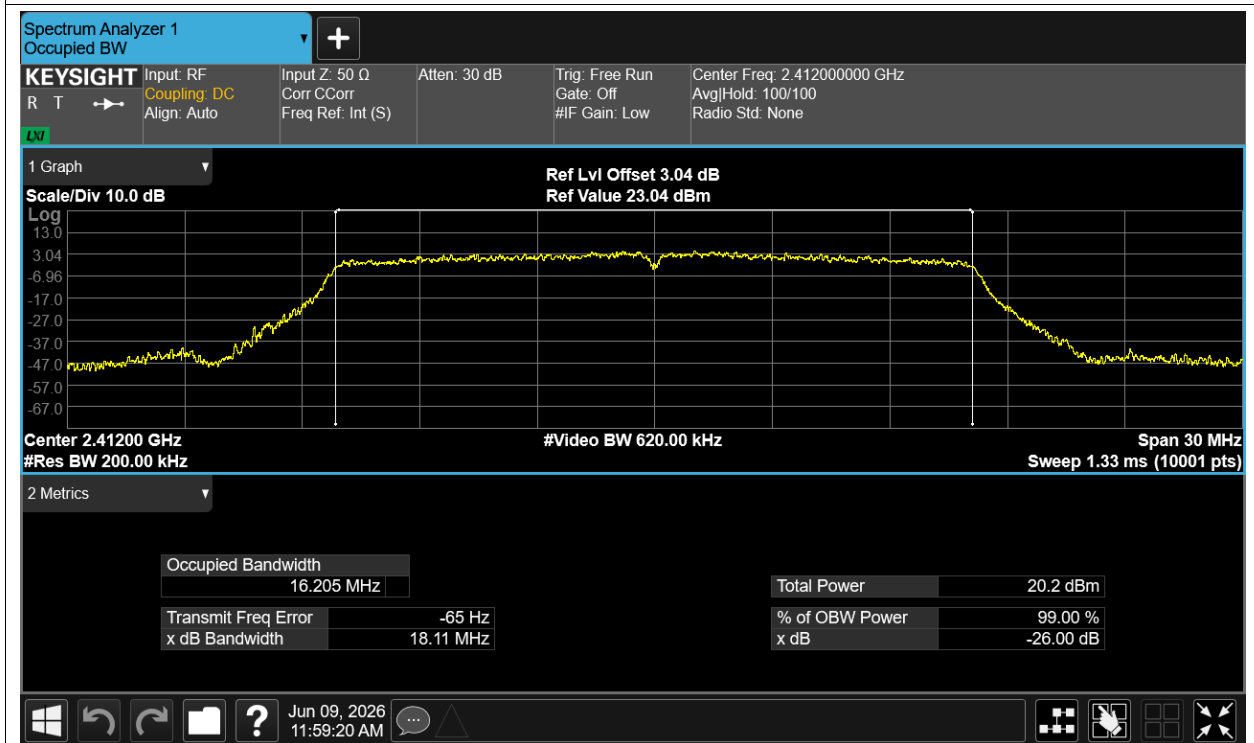
OBW NVNT g 2437MHz Ant1



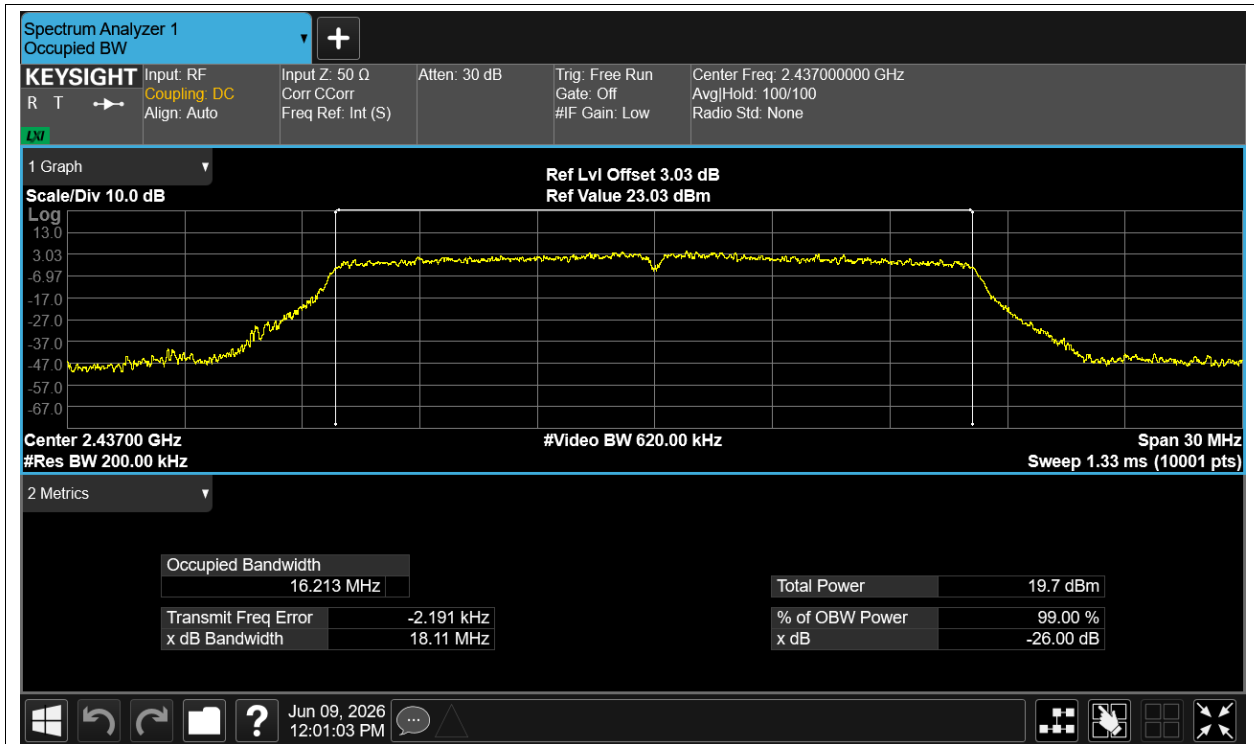
OBW NVNT g 2462MHz Ant1



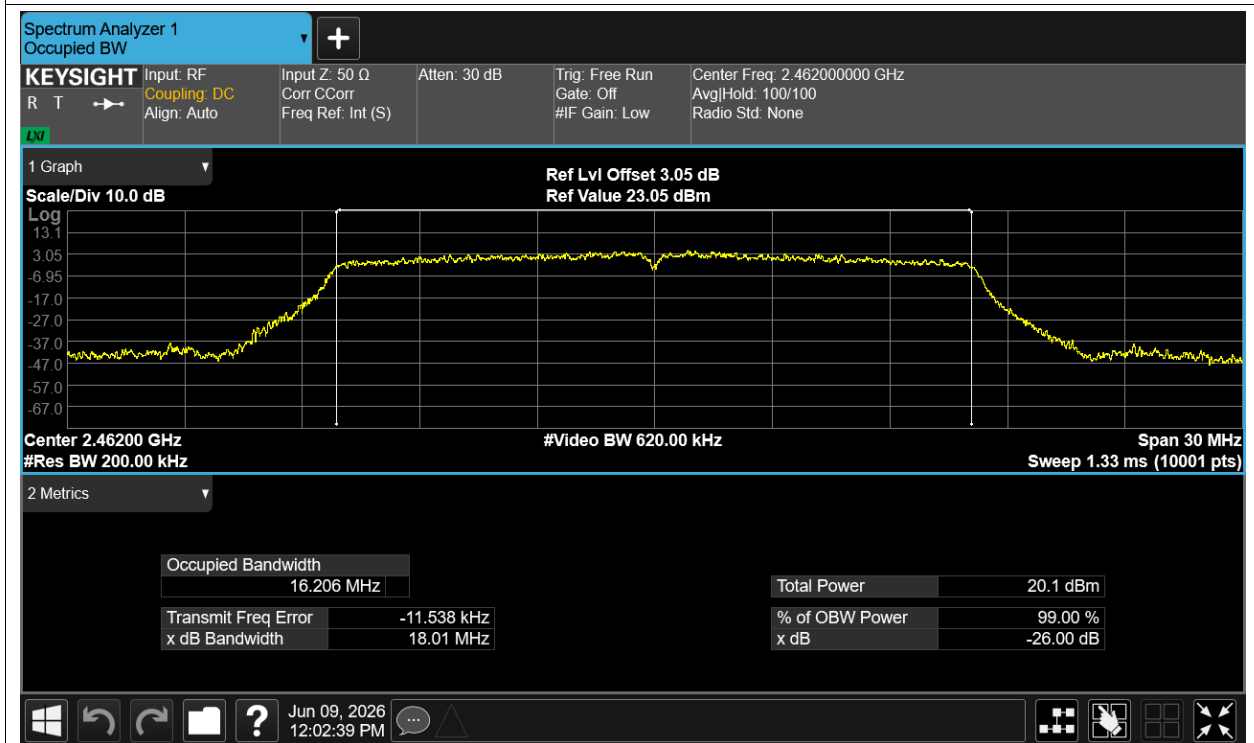
OBW NVNT g 2412MHz Ant2



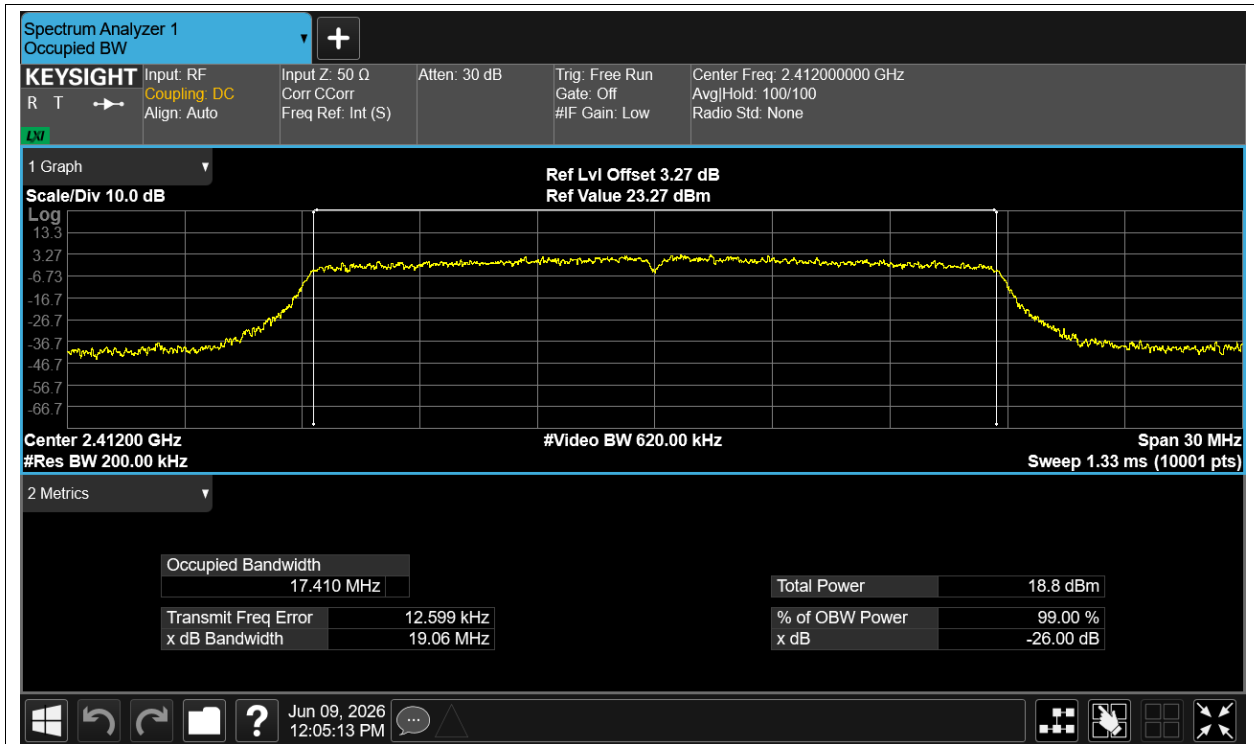
OBW NVNT g 2437MHz Ant2



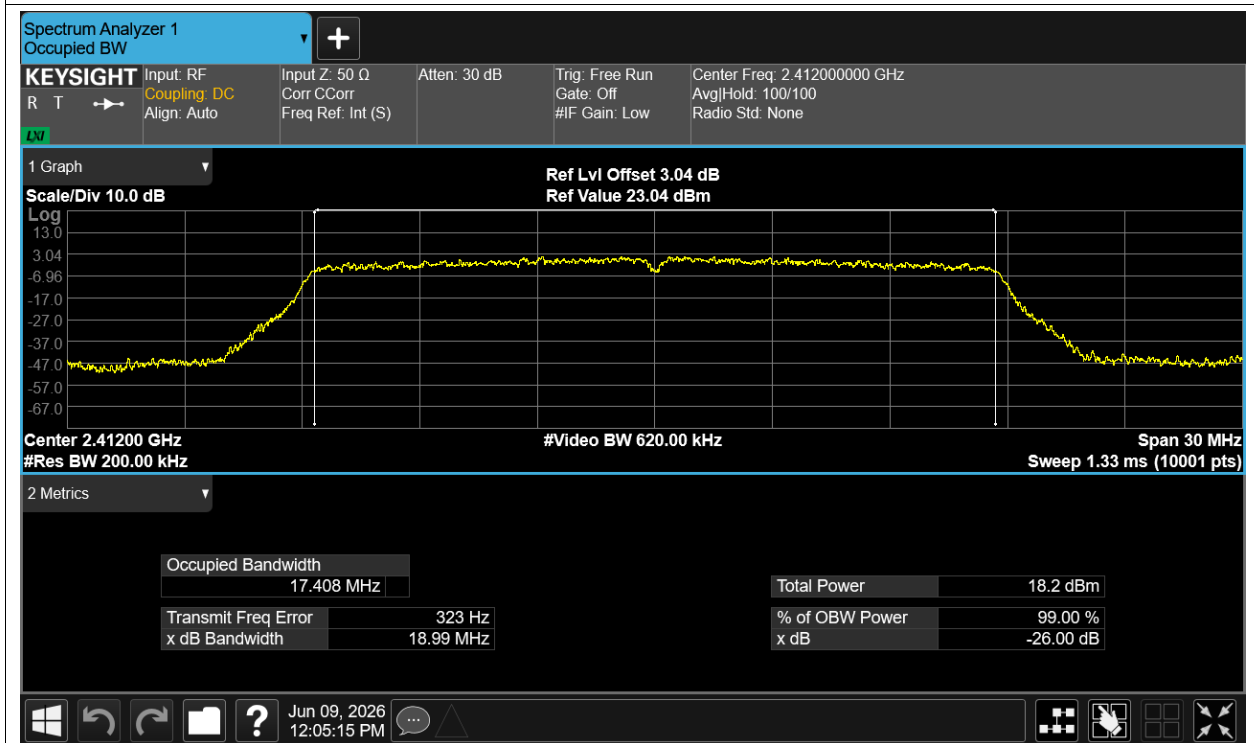
OBW NVNT g 2462MHz Ant2



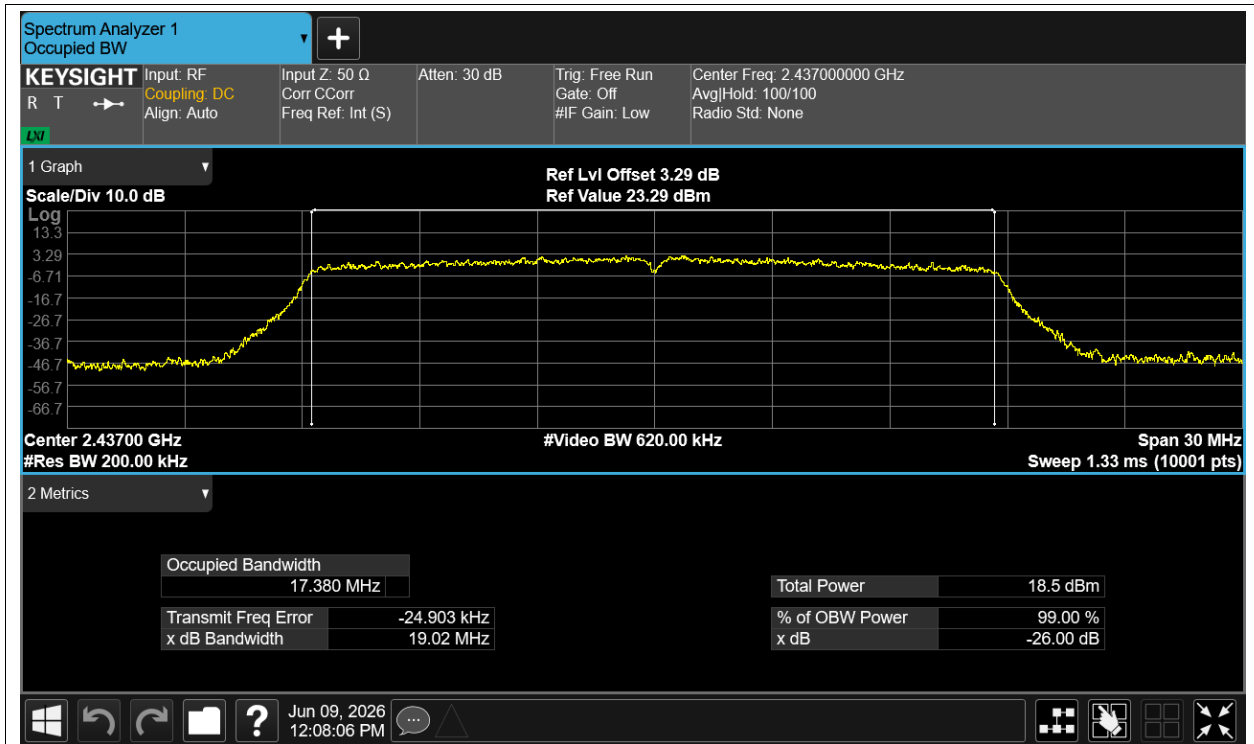
OBW NVNT n20 2412MHz Ant1



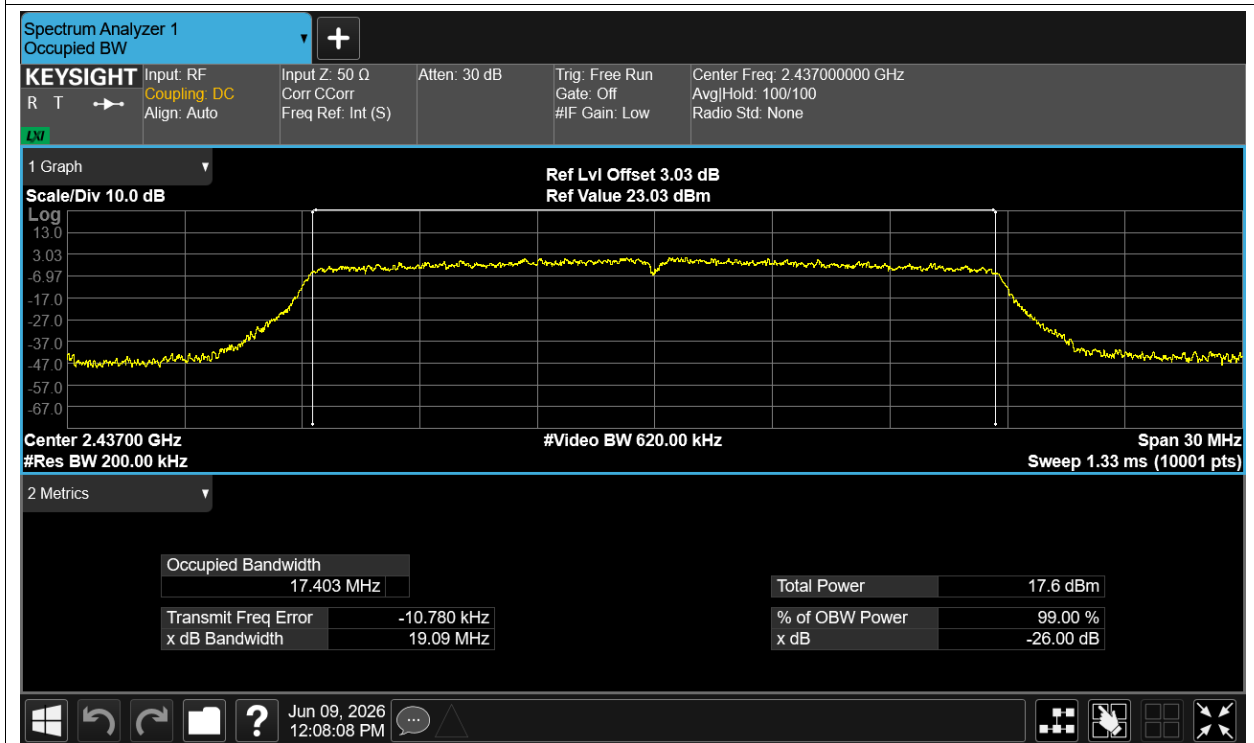
OBW NVNT n20 2412MHz Ant2



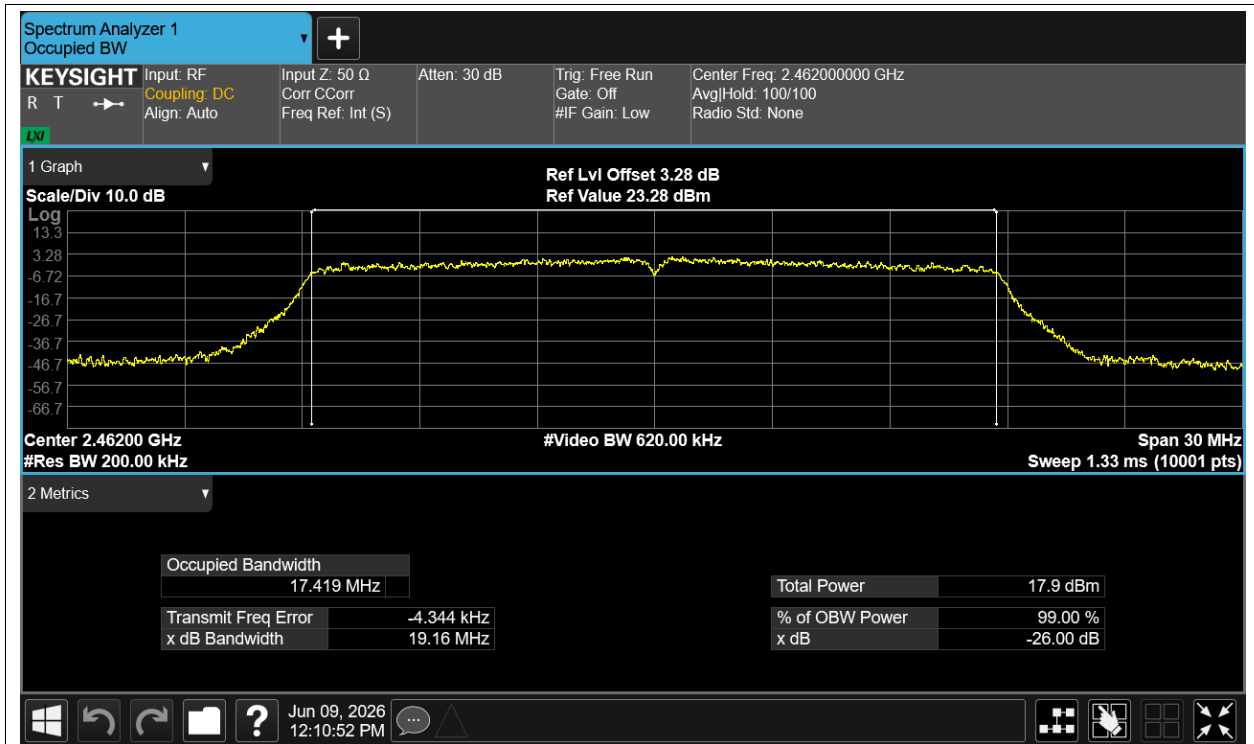
OBW NVNT n20 2437MHz Ant1



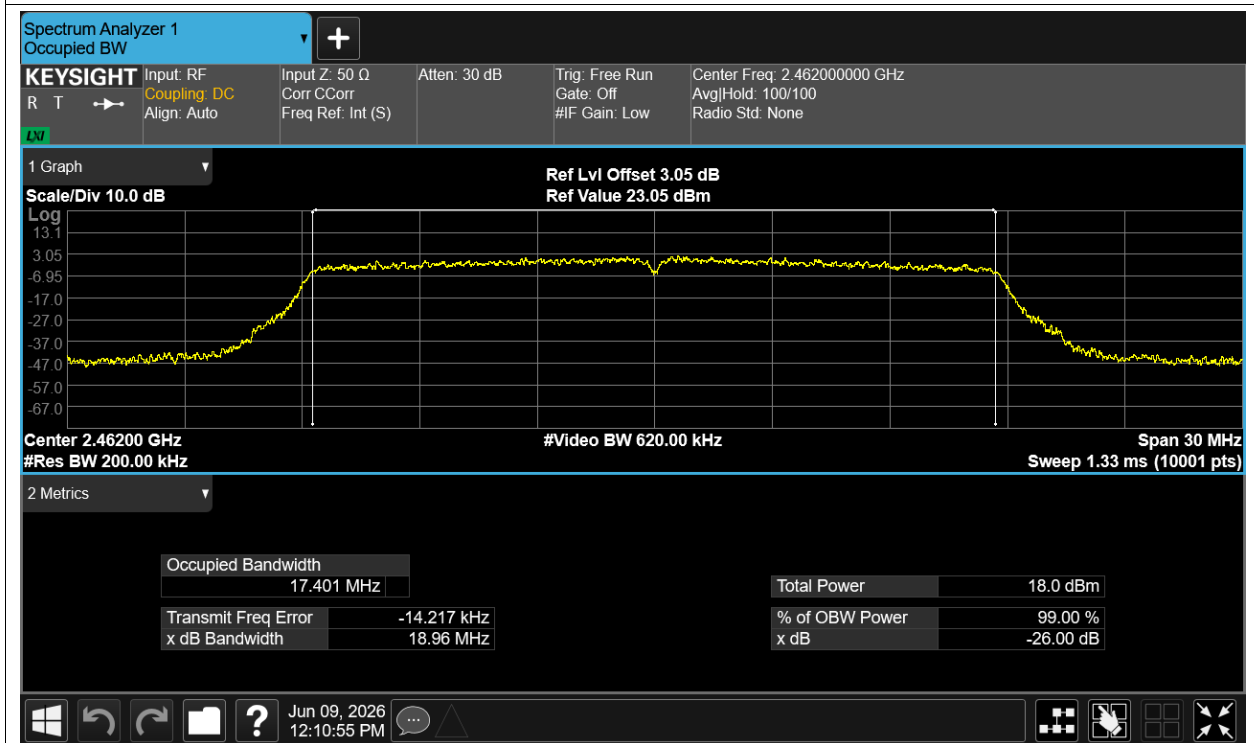
OBW NVNT n20 2437MHz Ant2



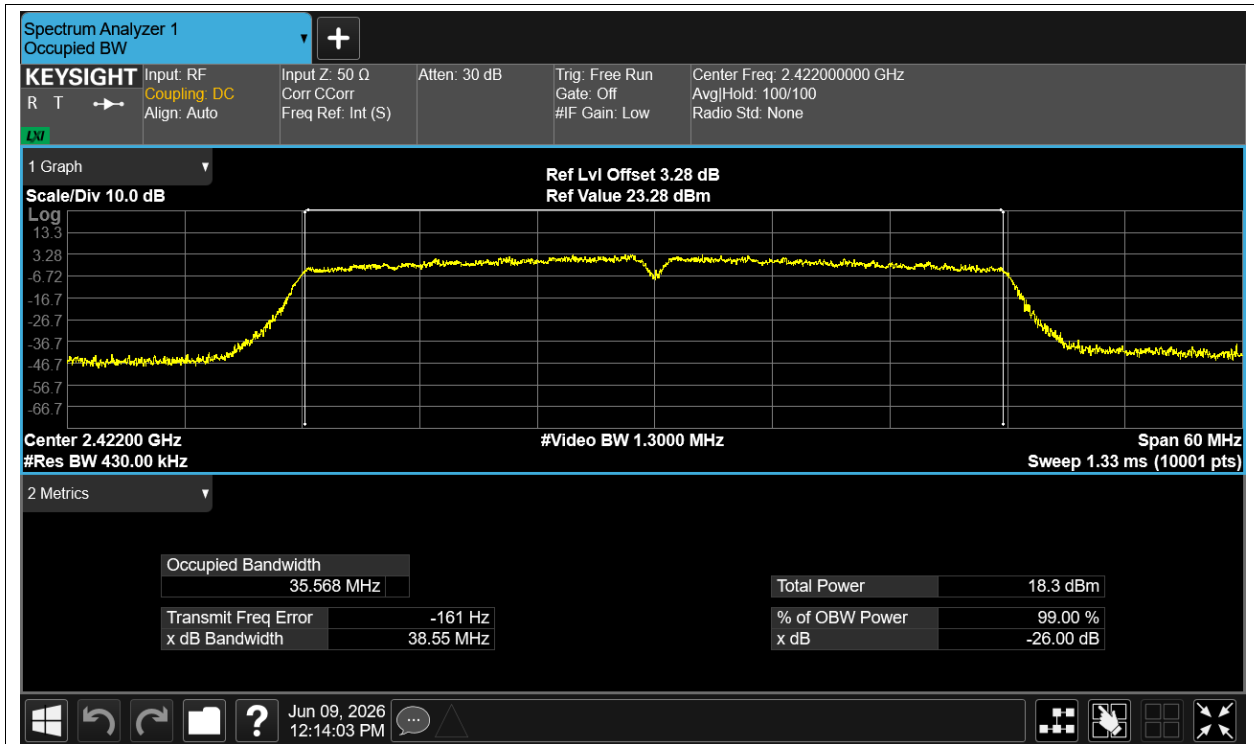
OBW NVNT n20 2462MHz Ant1



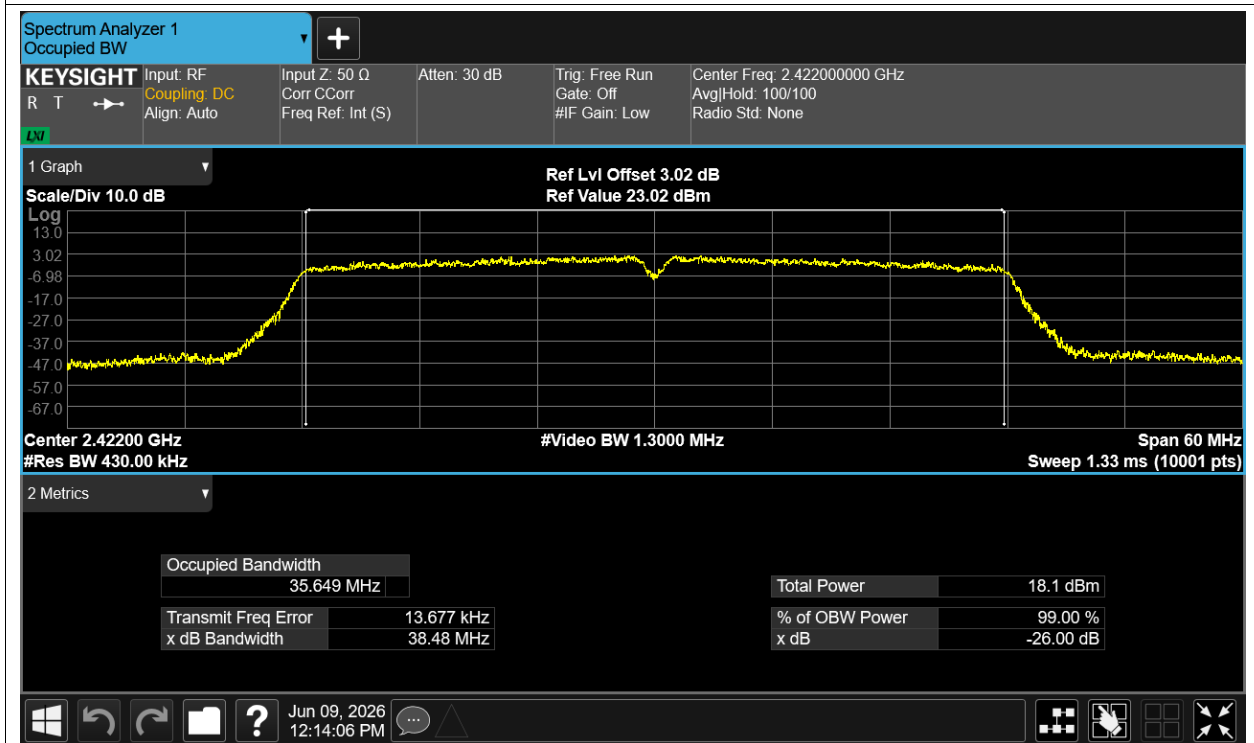
OBW NVNT n20 2462MHz Ant2



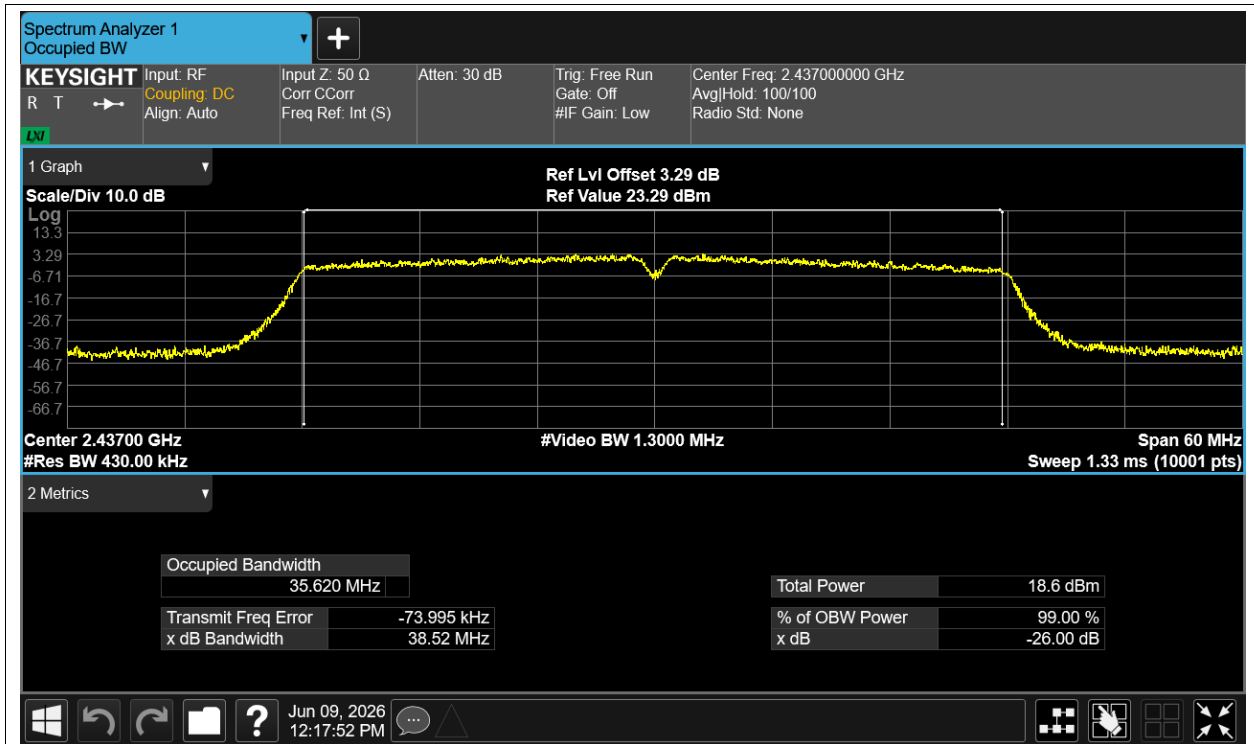
OBW NVNT n40 2422MHz Ant1



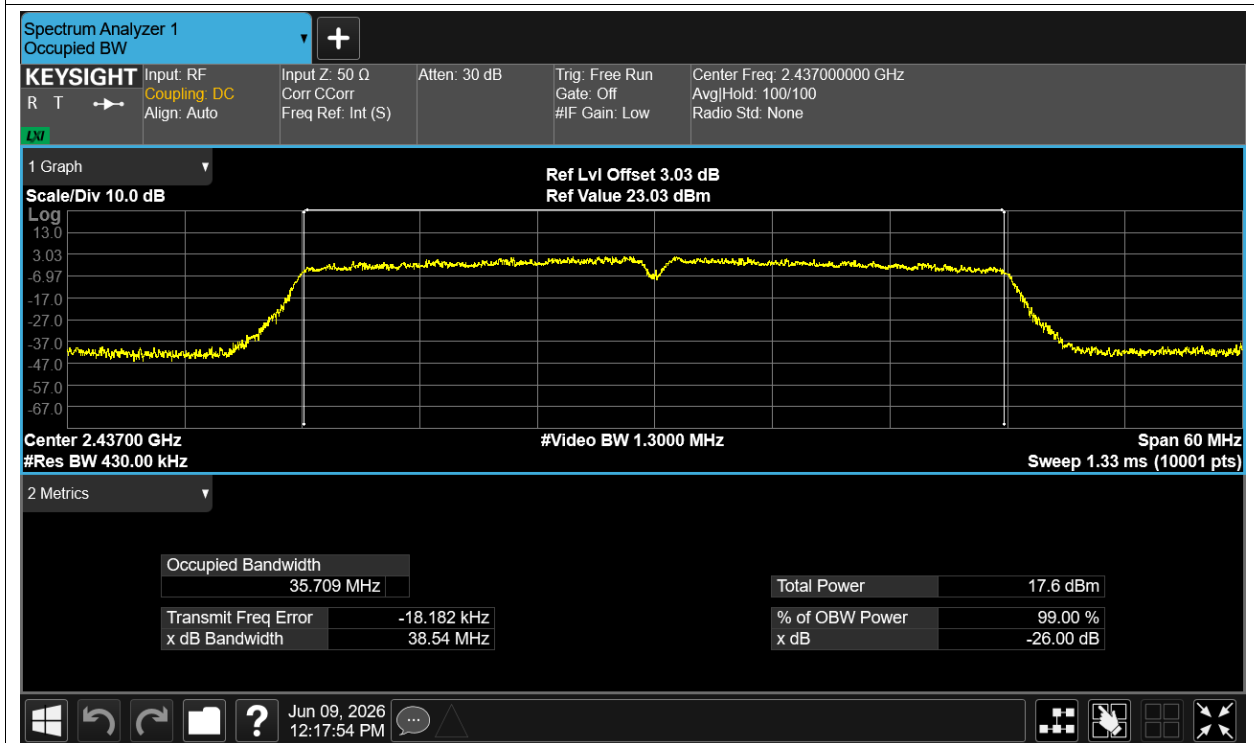
OBW NVNT n40 2422MHz Ant2



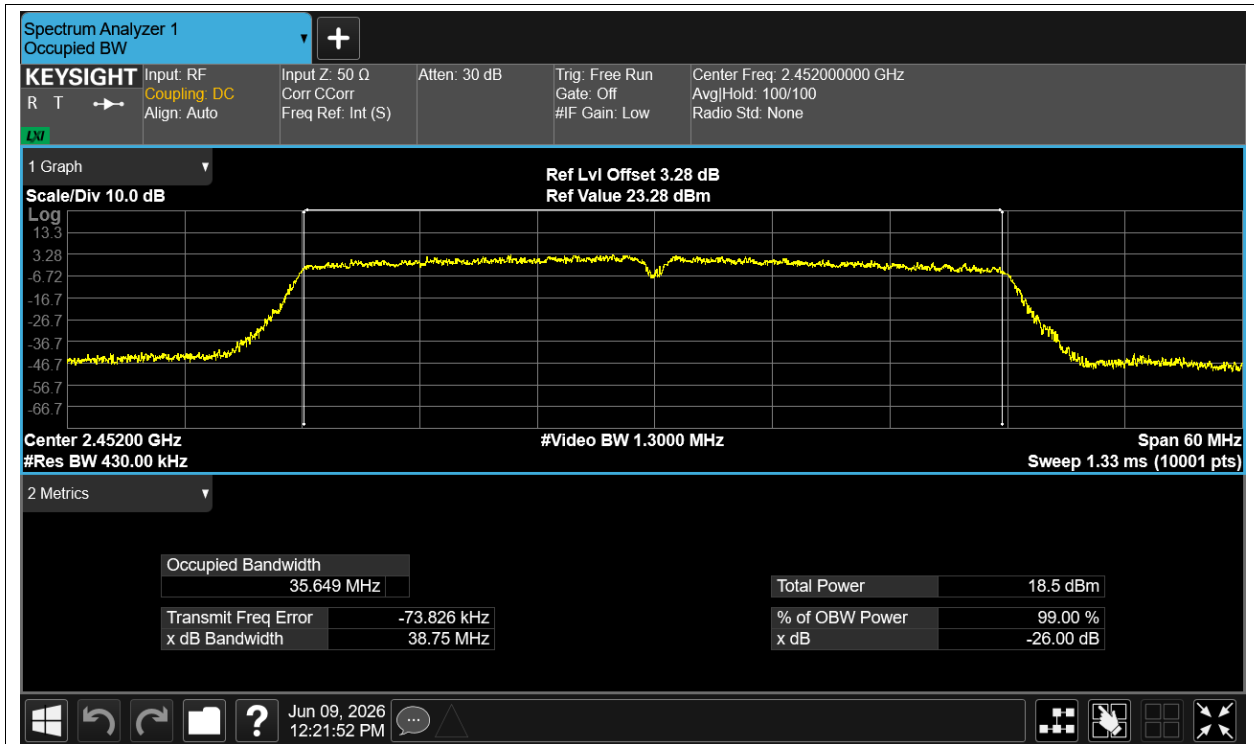
OBW NVNT n40 2437MHz Ant1



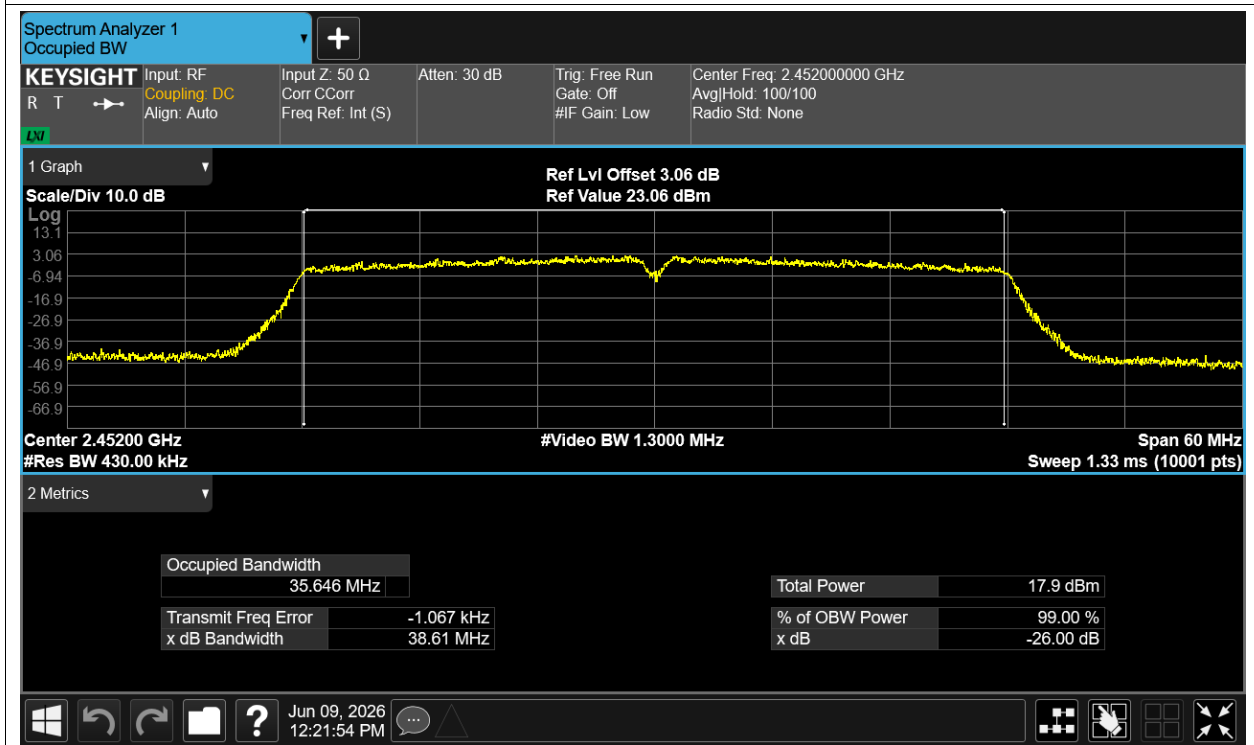
OBW NVNT n40 2437MHz Ant2



OBW NVNT n40 2452MHz Ant1



OBW NVNT n40 2452MHz Ant2

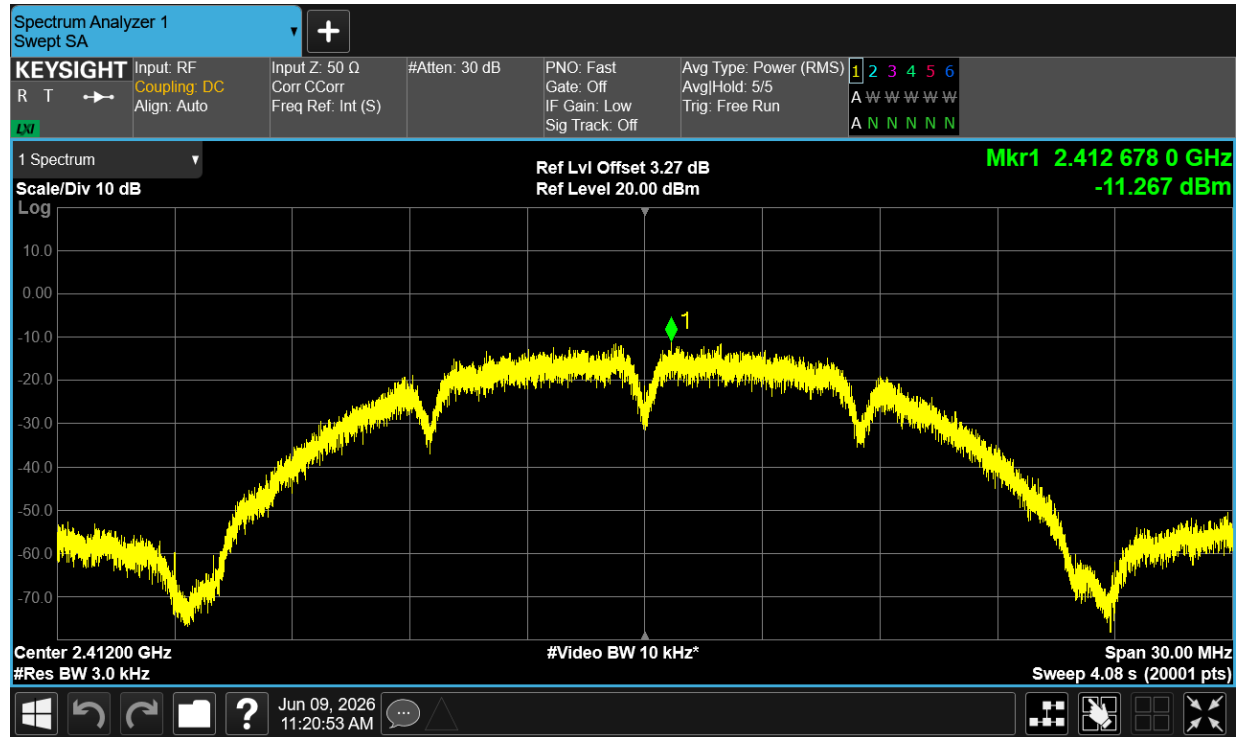


Maximum Power Spectral Density Level

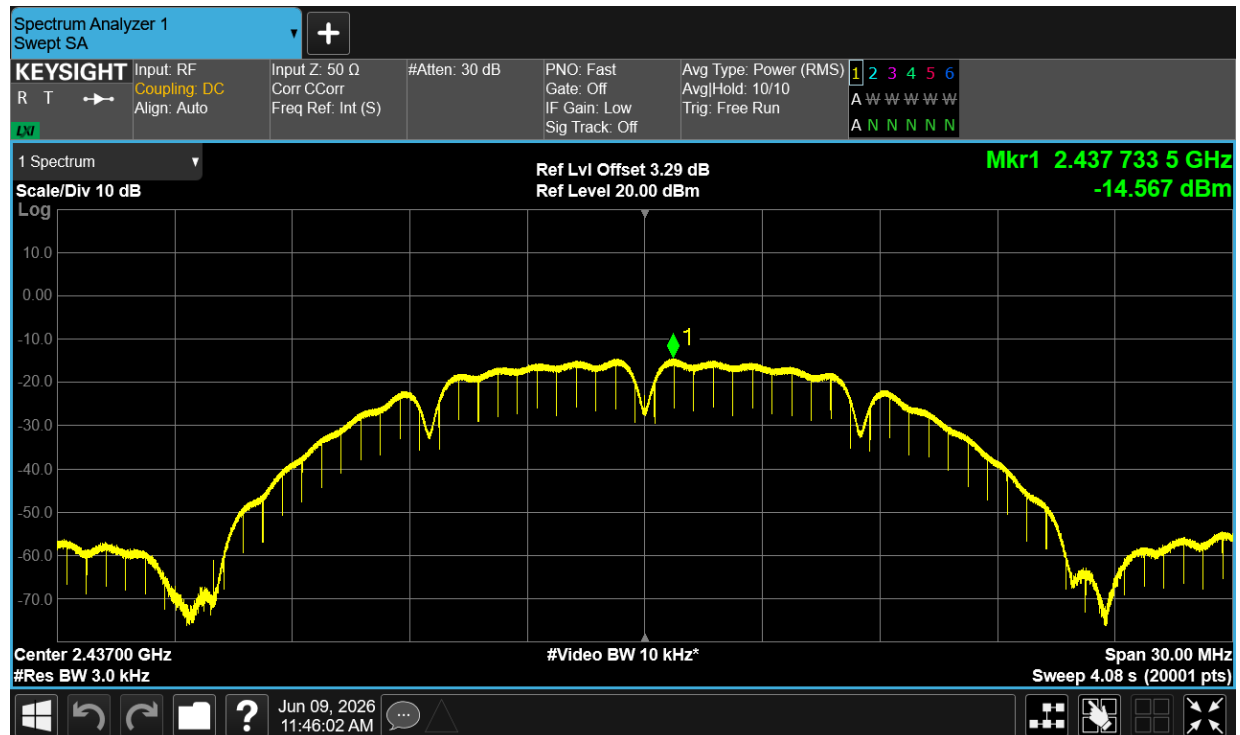
Condition	Mode	Frequency (MHz)	Antenna	Duty Factor (dB)	Conducted PSD (dBm/3KHz)	Total PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	b	2412	Ant1	0	-11.267	-11.267	8	Pass
NVNT	b	2437	Ant1	0	-14.567	-14.567	8	Pass
NVNT	b	2462	Ant1	0	-11.051	-11.051	8	Pass
NVNT	b	2412	Ant2	0	-11.816	-11.816	8	Pass
NVNT	b	2437	Ant2	0	-14.945	-14.945	8	Pass
NVNT	b	2462	Ant2	0	-12.167	-12.167	8	Pass
NVNT	g	2412	Ant1	0	-16.338	-16.338	8	Pass
NVNT	g	2437	Ant1	0	-15.489	-15.489	8	Pass
NVNT	g	2462	Ant1	0	-15.622	-15.622	8	Pass
NVNT	g	2412	Ant2	0	-14.733	-14.733	8	Pass
NVNT	g	2437	Ant2	0	-16.561	-16.561	8	Pass
NVNT	g	2462	Ant2	0	-15.64	-15.64	8	Pass
NVNT	n20	2412	Ant1	0	-17.027	-17.027	8	Pass
NVNT	n20	2412	Ant2	0	-16.966	-16.966	8	Pass
NVNT	n20	2412	Sum	0	-13.986	-13.986	8	Pass
NVNT	n20	2437	Ant1	0	-17.29	-17.29	8	Pass
NVNT	n20	2437	Ant2	0	-17.197	-17.197	8	Pass
NVNT	n20	2437	Sum	0	-14.233	-14.233	8	Pass
NVNT	n20	2462	Ant1	0	-18.902	-18.902	8	Pass
NVNT	n20	2462	Ant2	0	-17.295	-17.295	8	Pass
NVNT	n20	2462	Sum	0	-15.014	-15.014	8	Pass
NVNT	n40	2422	Ant1	0	-20.493	-20.493	8	Pass
NVNT	n40	2422	Ant2	0	-21.382	-21.382	8	Pass
NVNT	n40	2422	Sum	0	-17.904	-17.904	8	Pass
NVNT	n40	2437	Ant1	0	-19.679	-19.679	8	Pass
NVNT	n40	2437	Ant2	0	-21.043	-21.043	8	Pass
NVNT	n40	2437	Sum	0	-17.297	-17.297	8	Pass
NVNT	n40	2452	Ant1	0	-20.307	-20.307	8	Pass
NVNT	n40	2452	Ant2	0	-20.737	-20.737	8	Pass
NVNT	n40	2452	Sum	0	-17.506	-17.506	8	Pass

Test Graphs

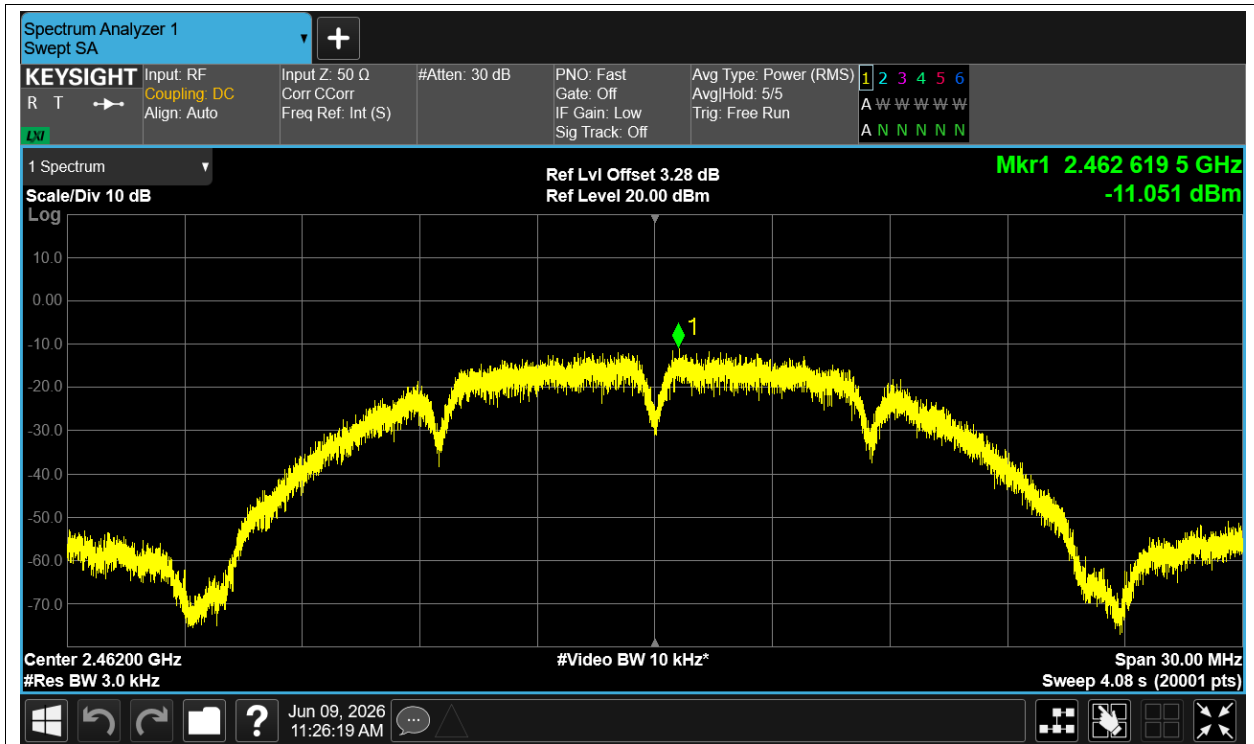
PSD NVNT b 2412MHz Ant1



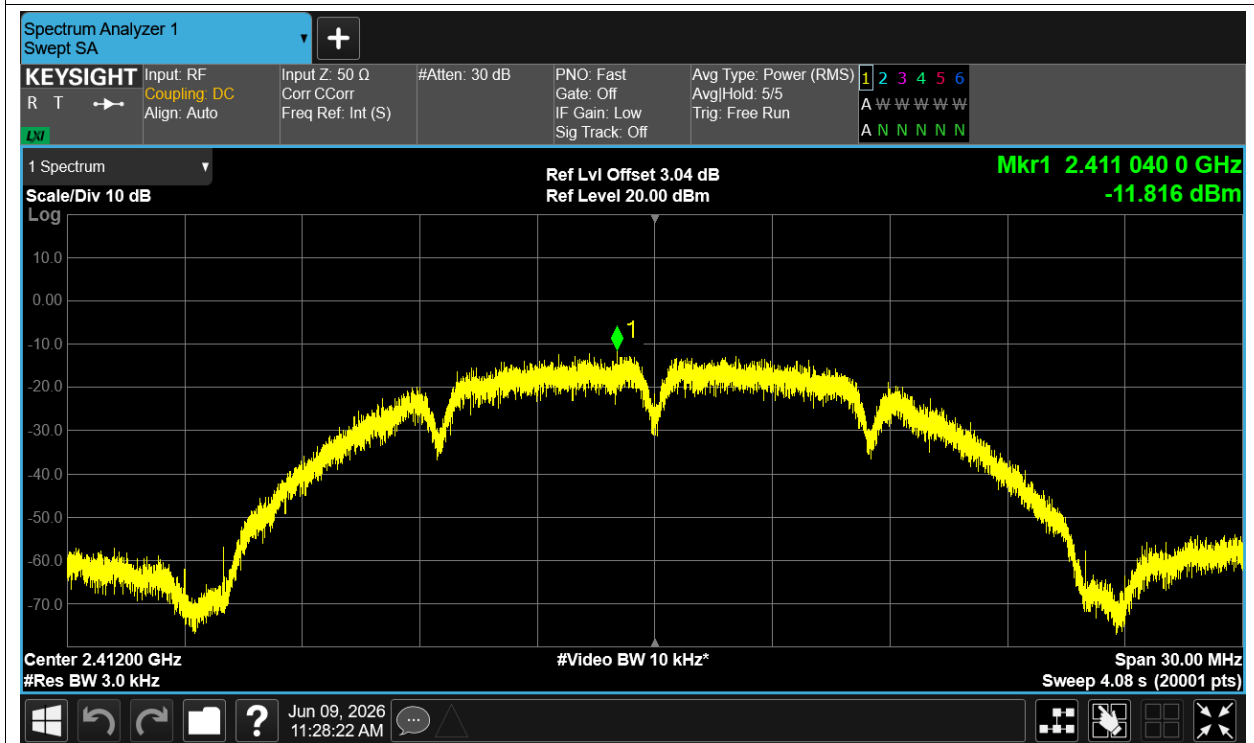
PSD NVNT b 2437MHz Ant1



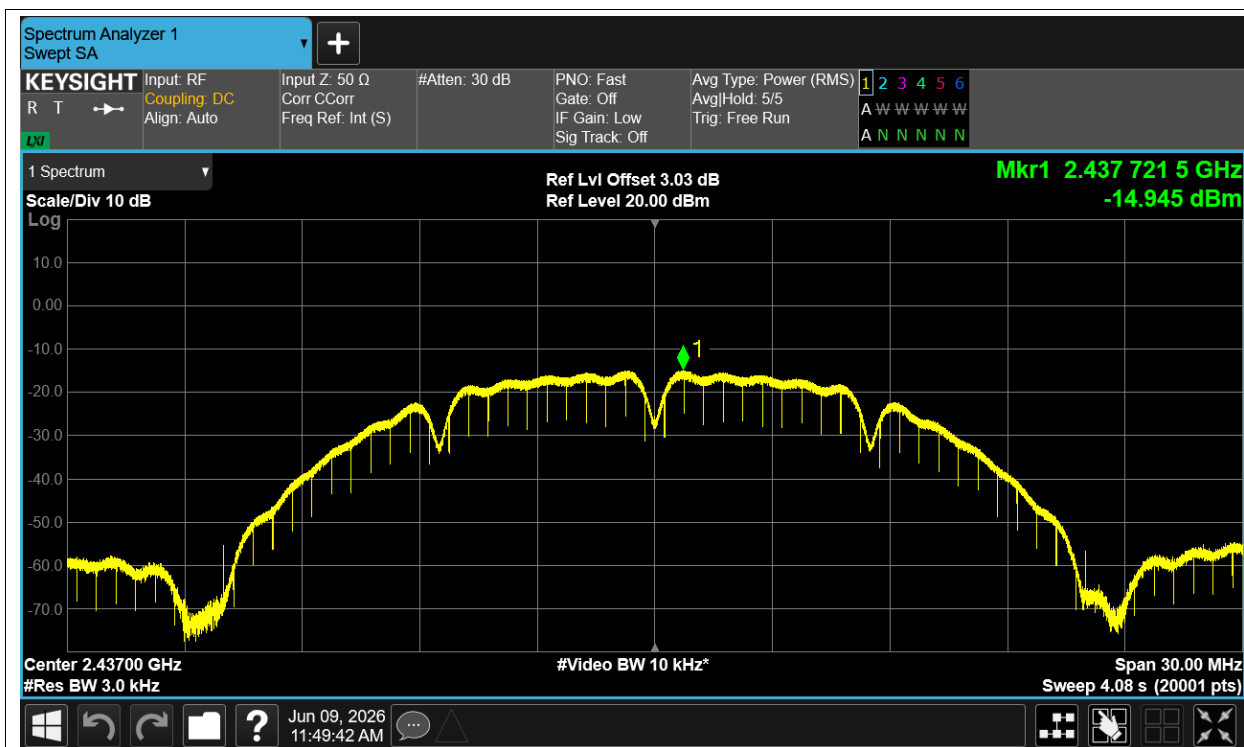
PSD NVNT b 2462MHz Ant1



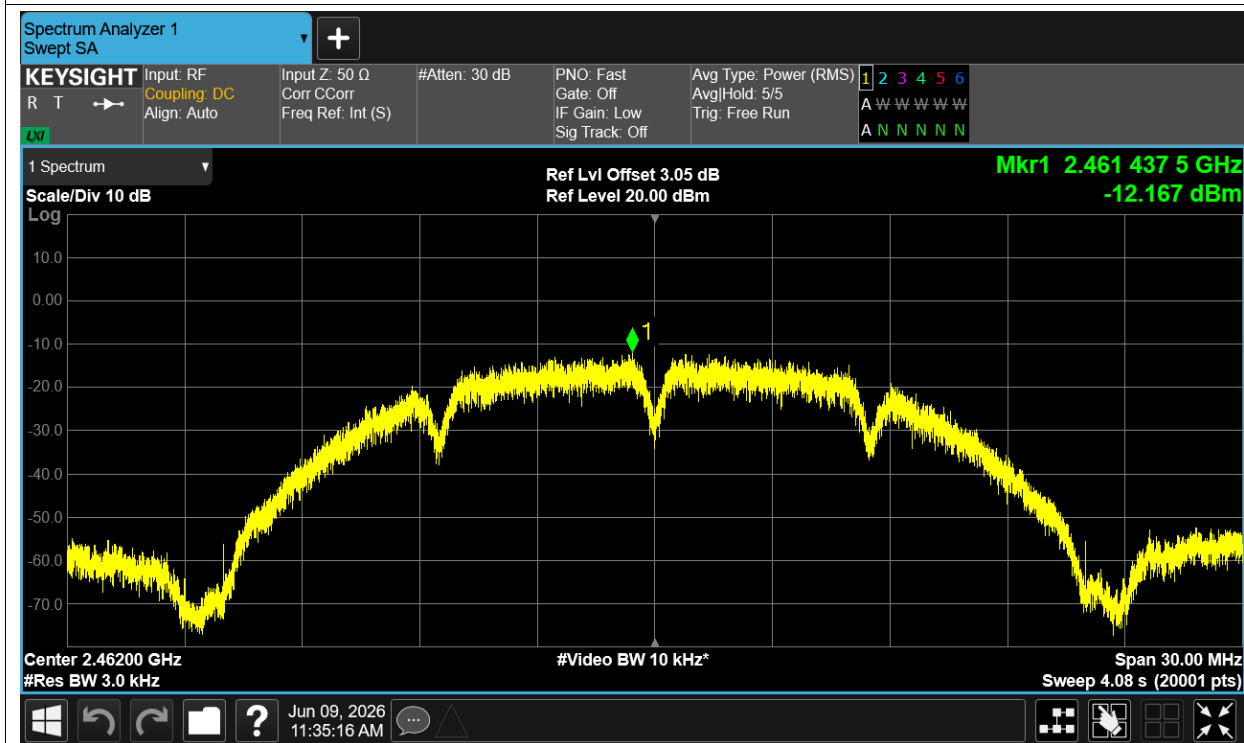
PSD NVNT b 2412MHz Ant2



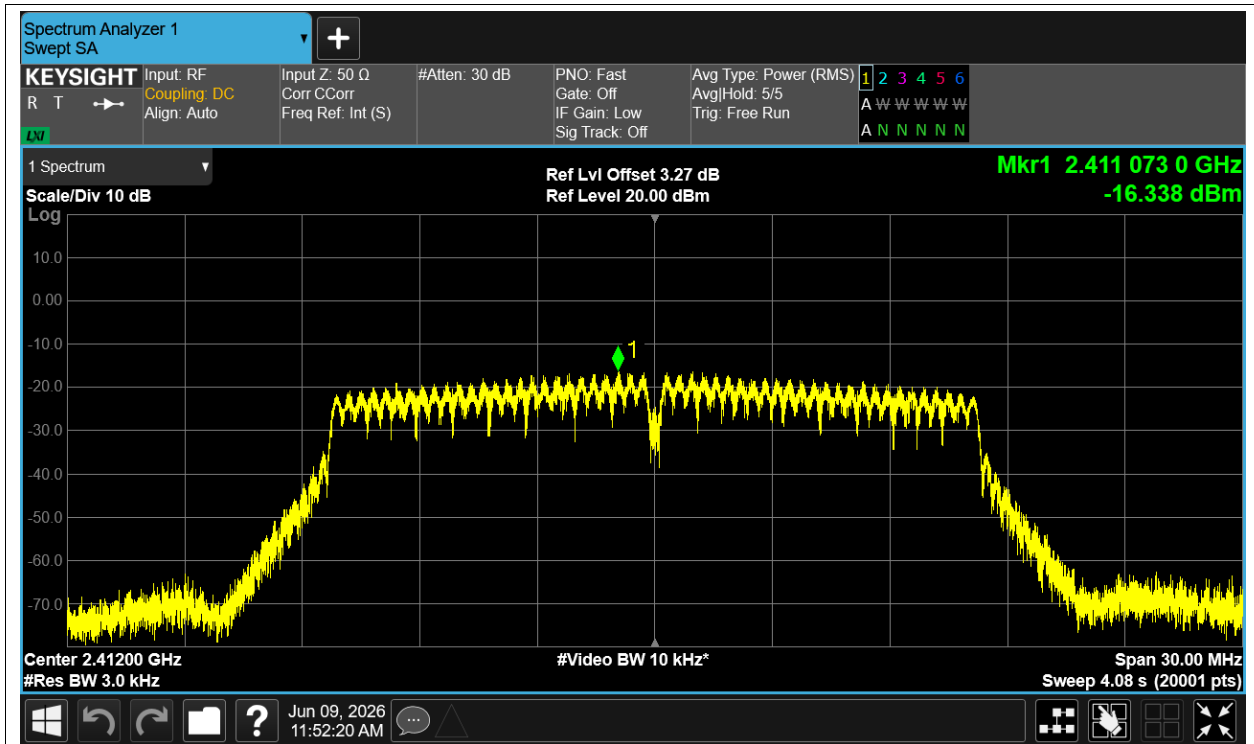
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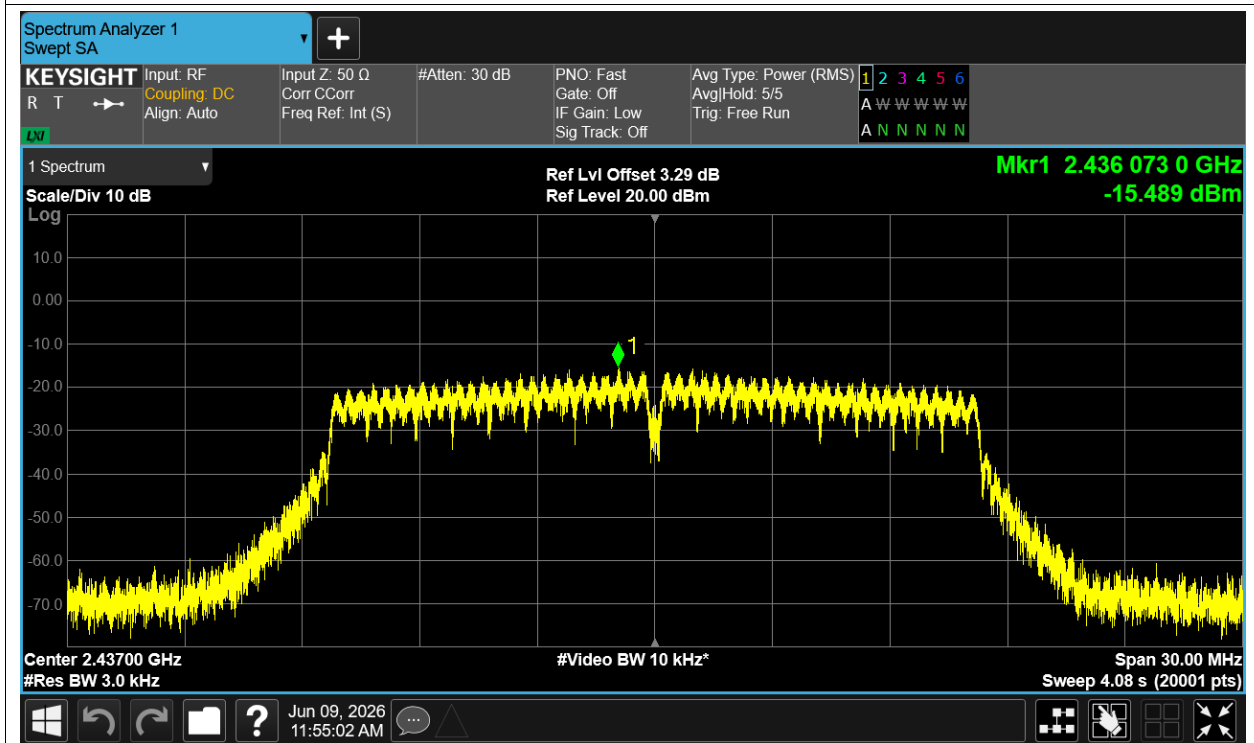
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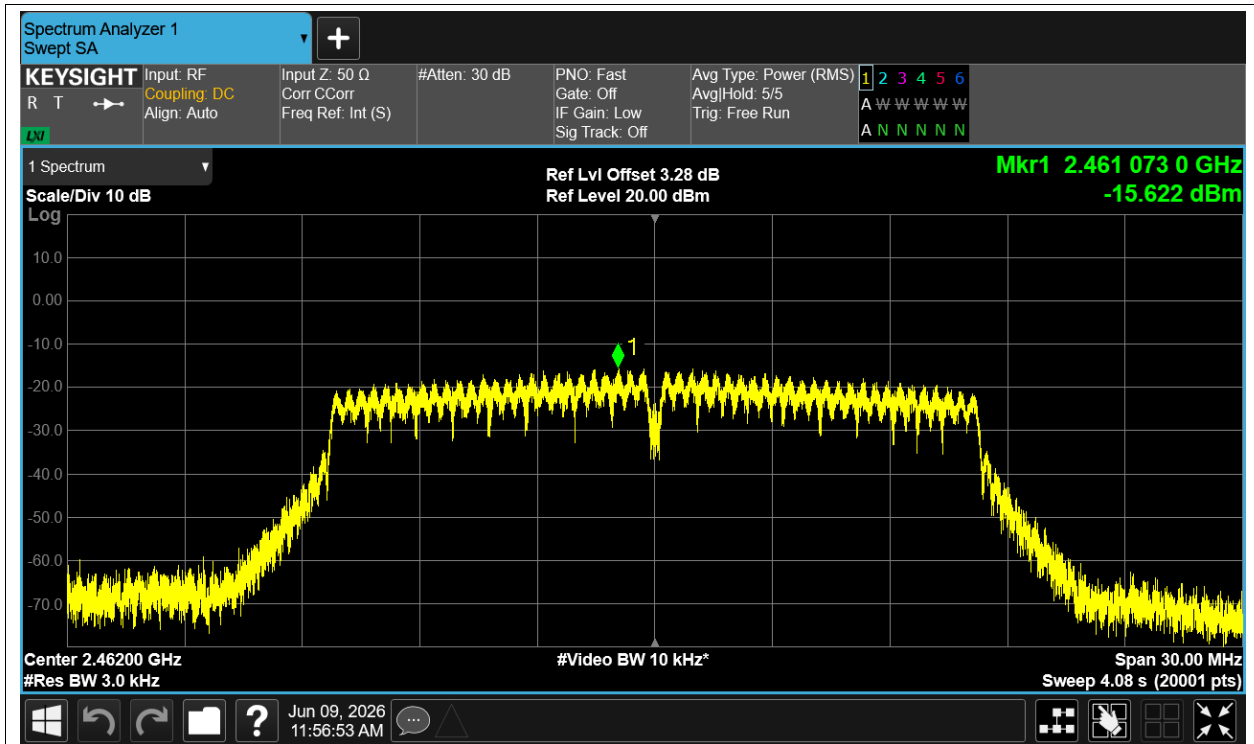
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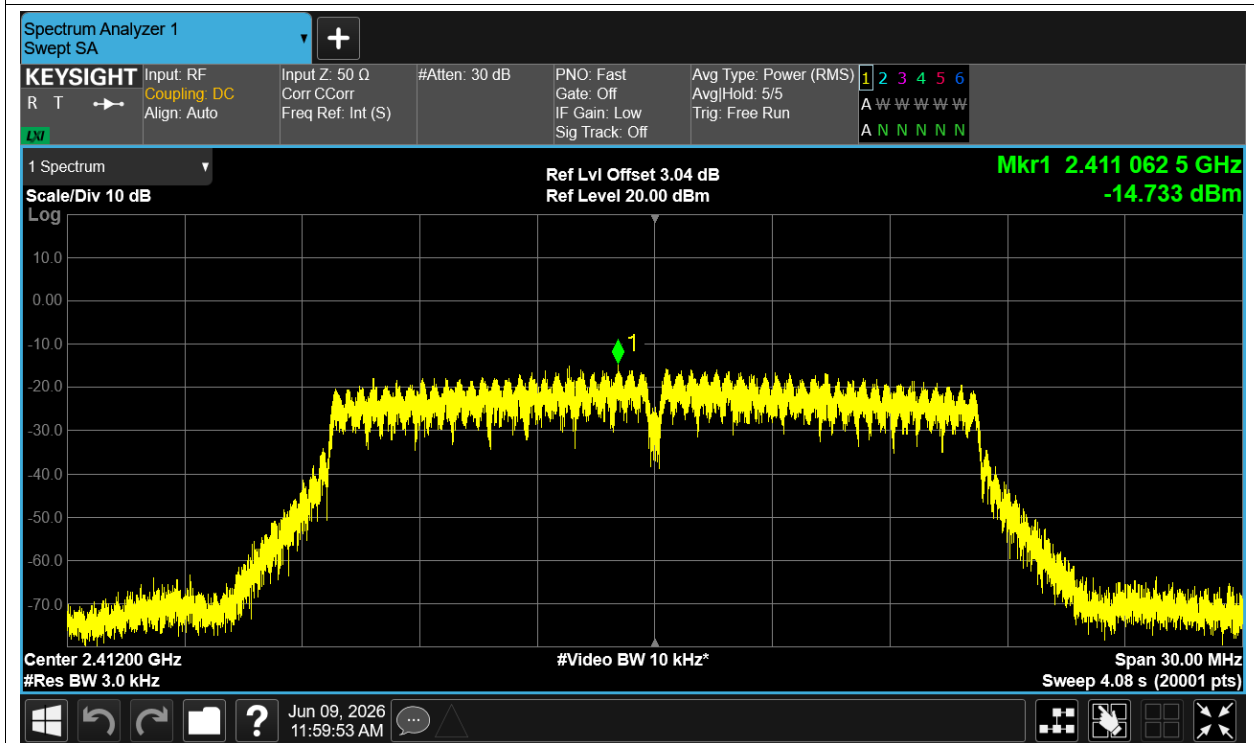
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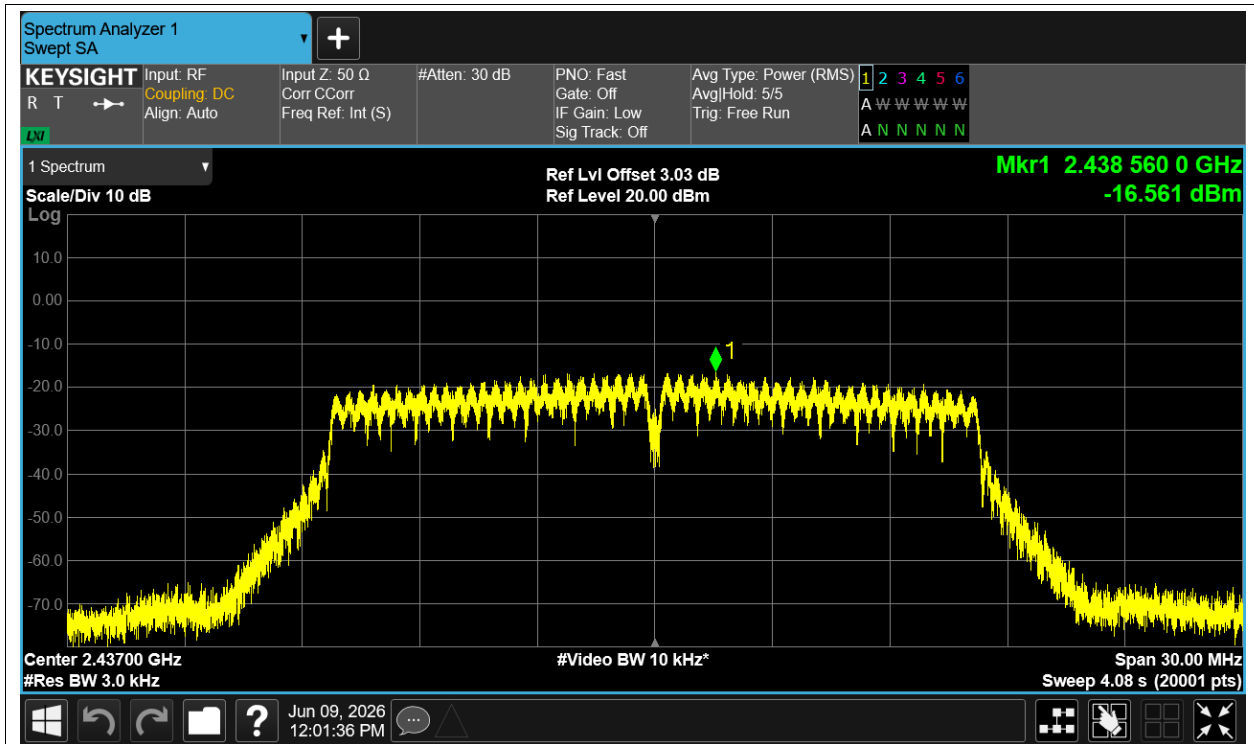
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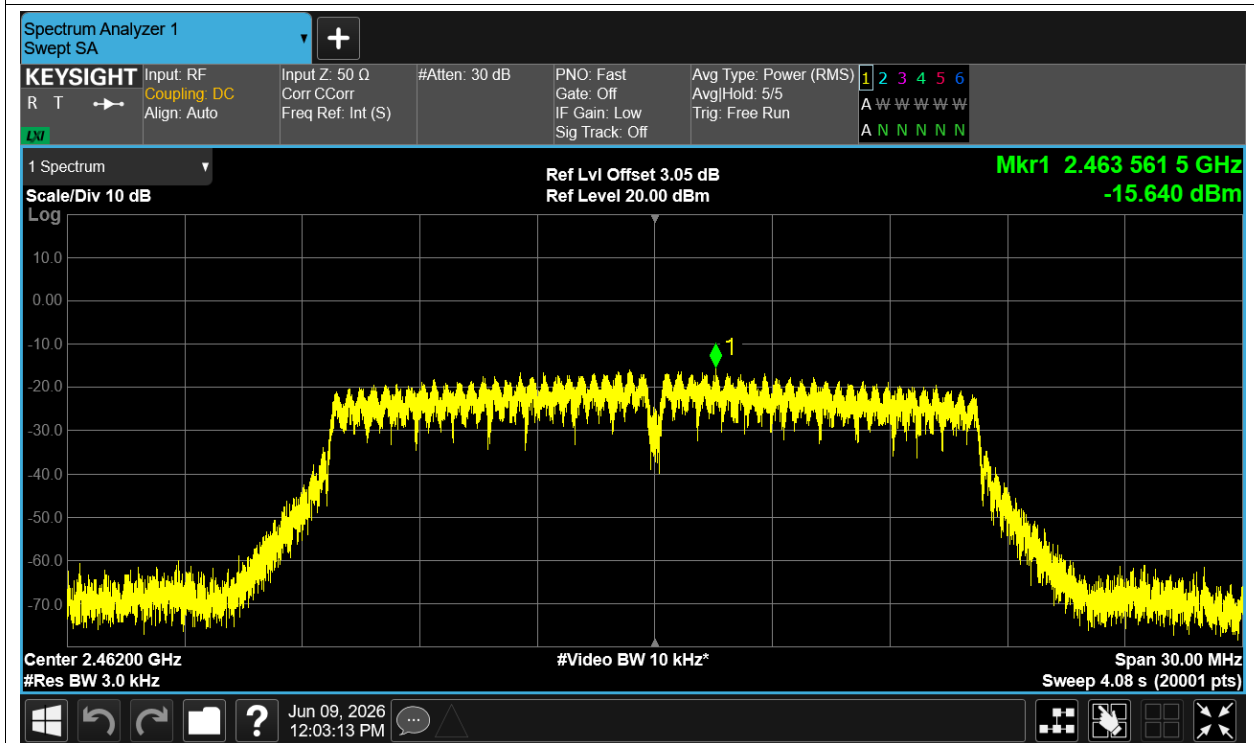
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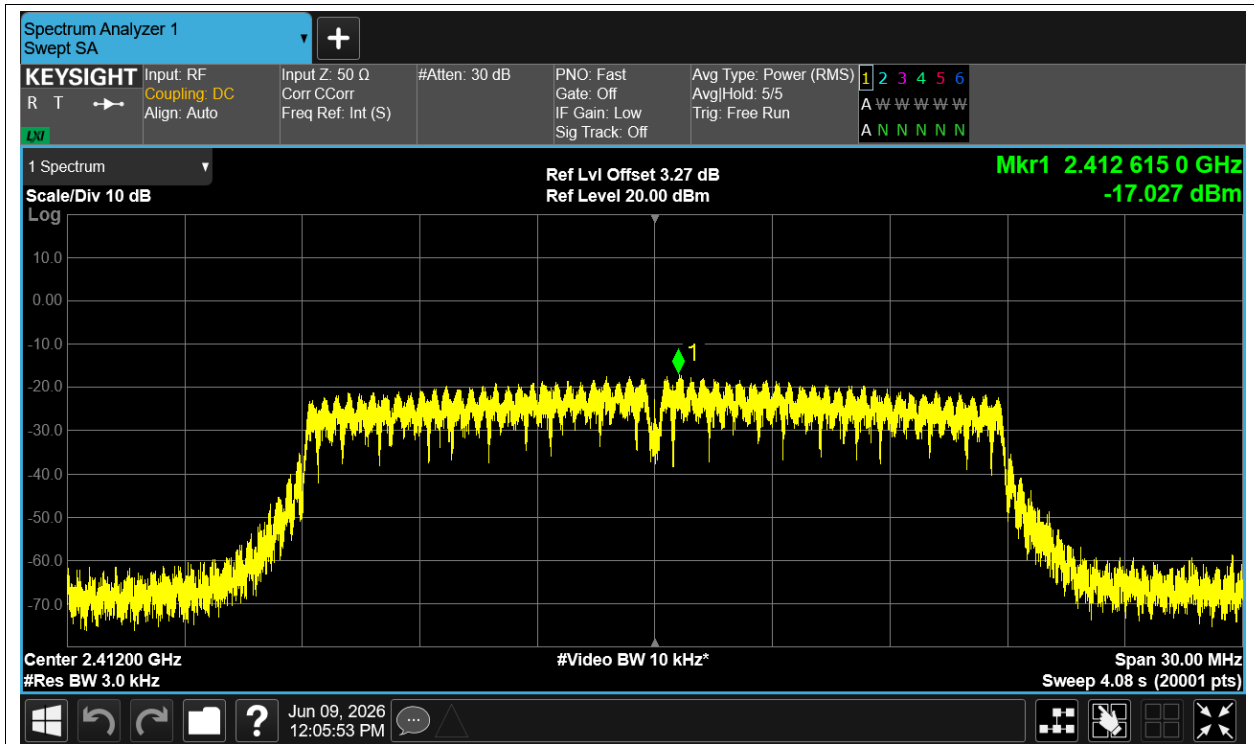
PSD NVNT g 2437MHz Ant2



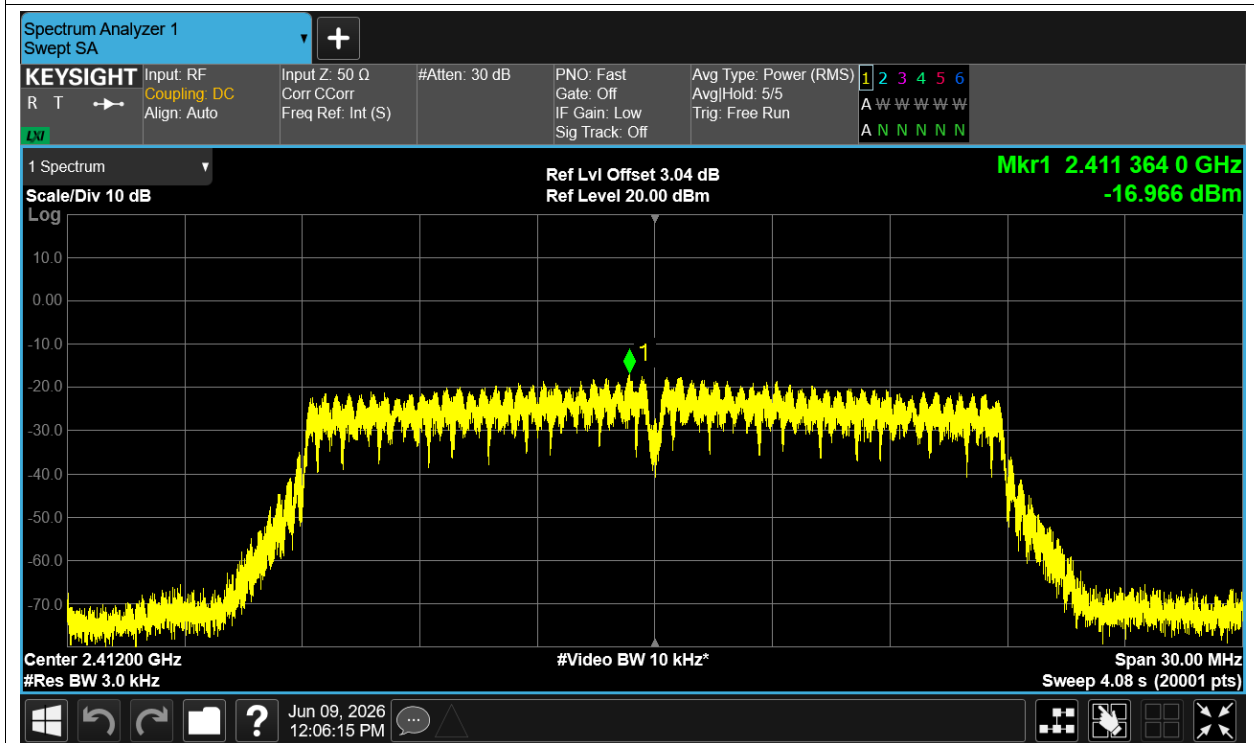
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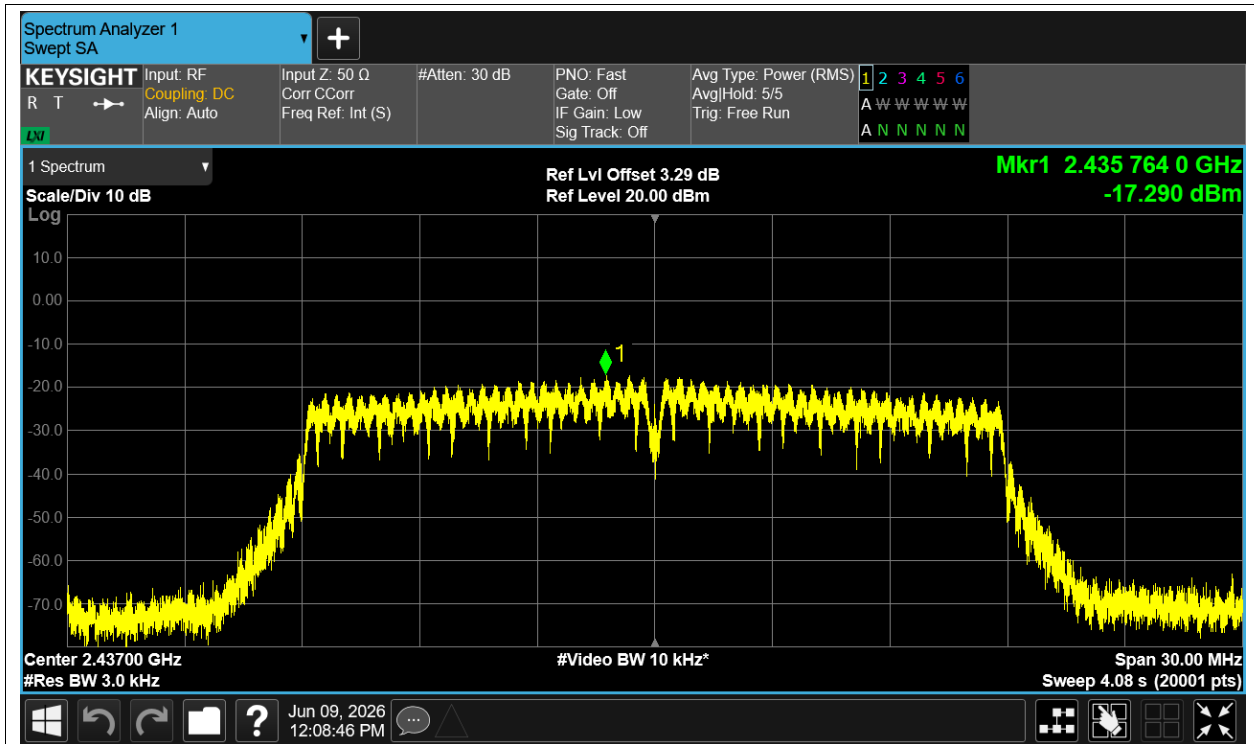
PSD NVNT n20 2412MHz Ant1



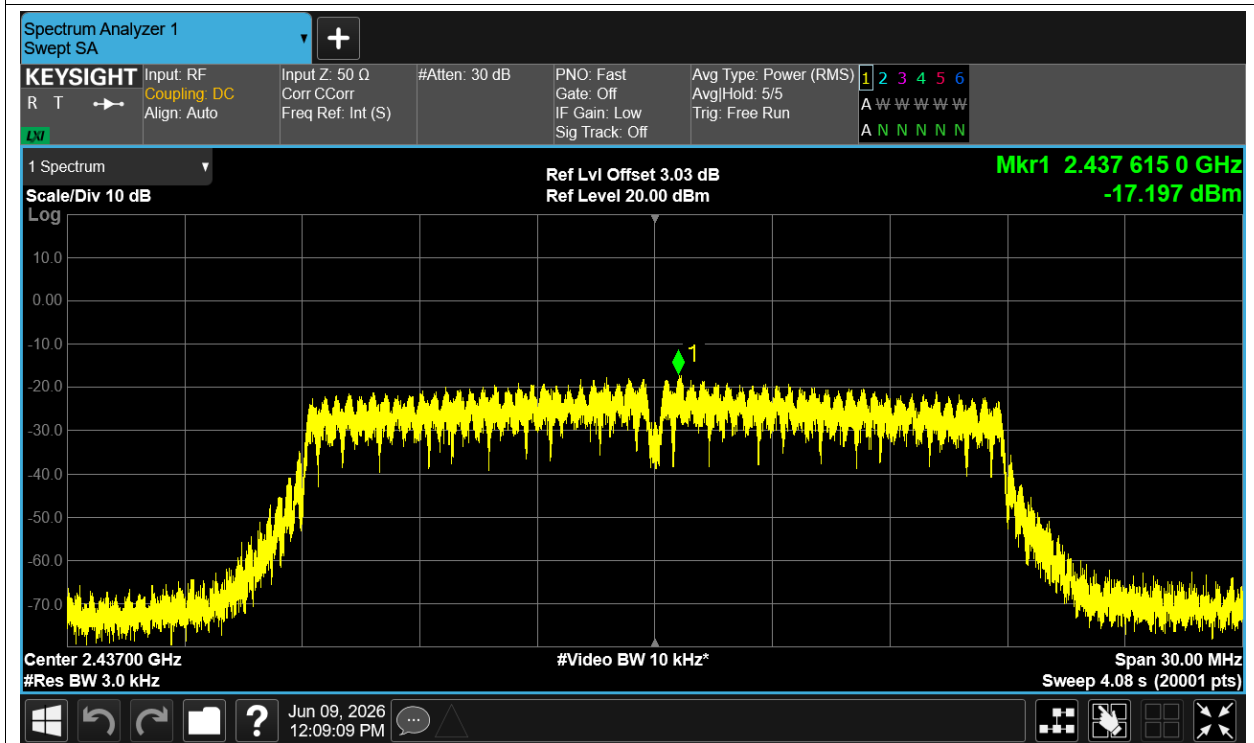
PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant1