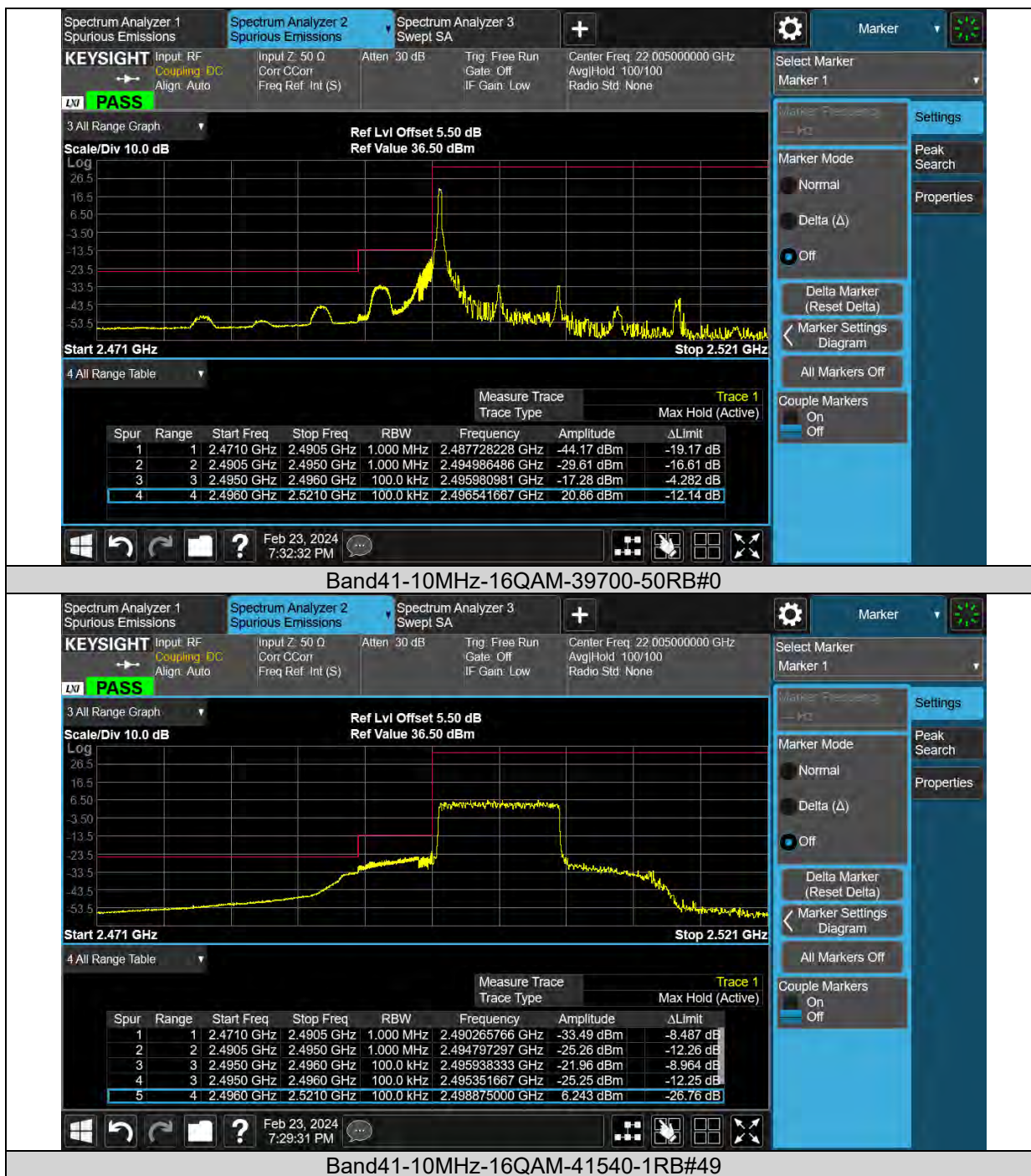
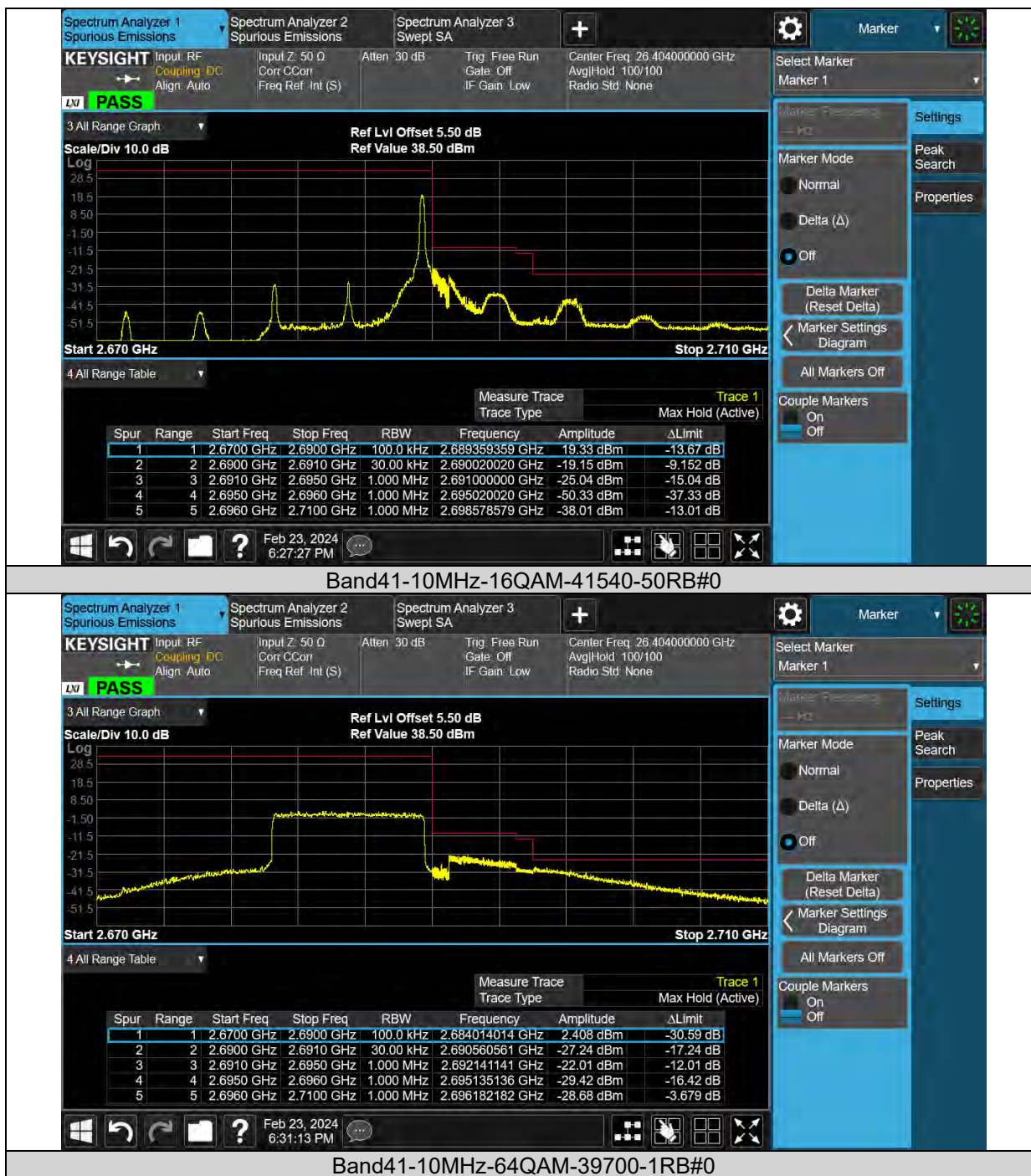


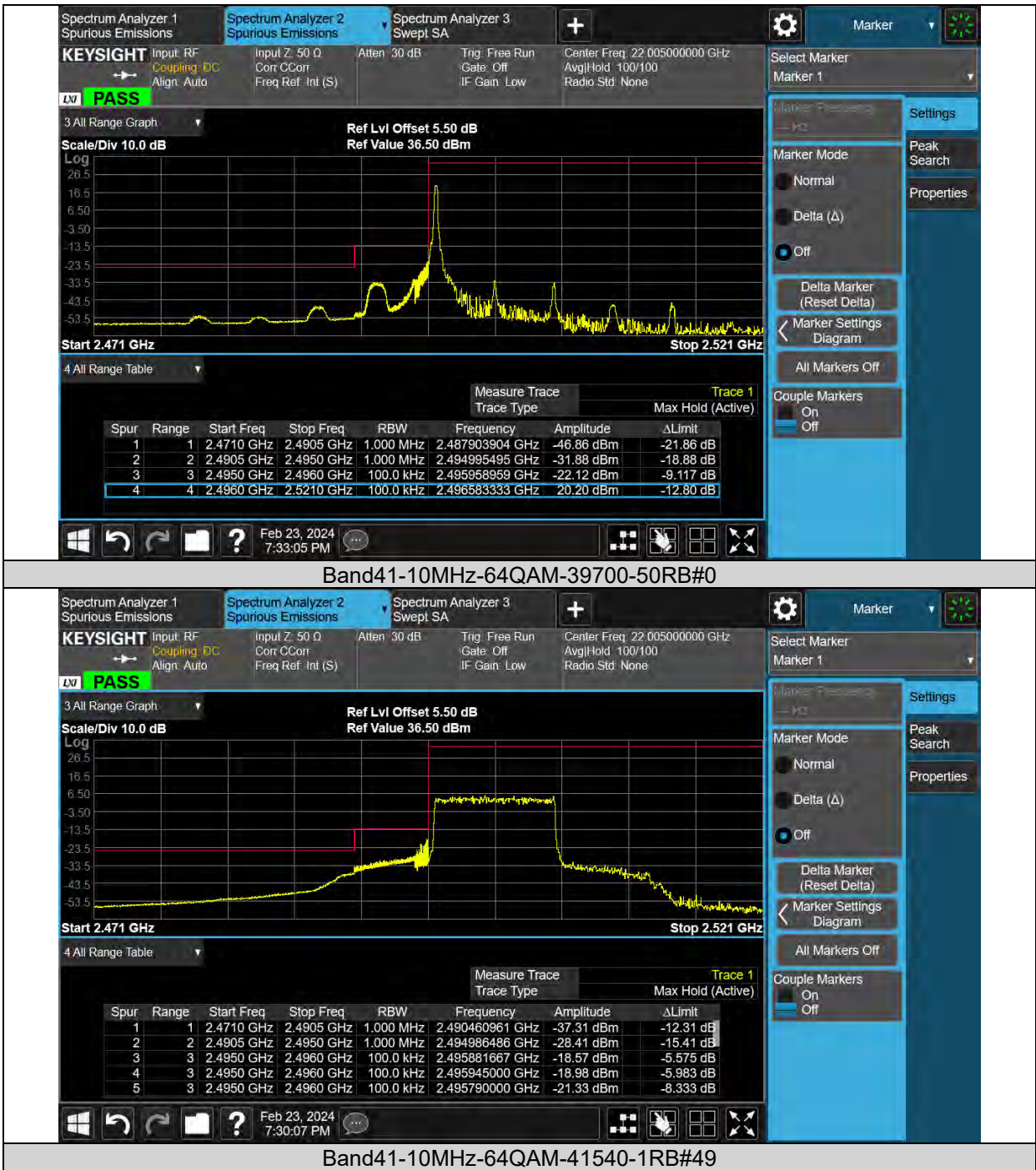


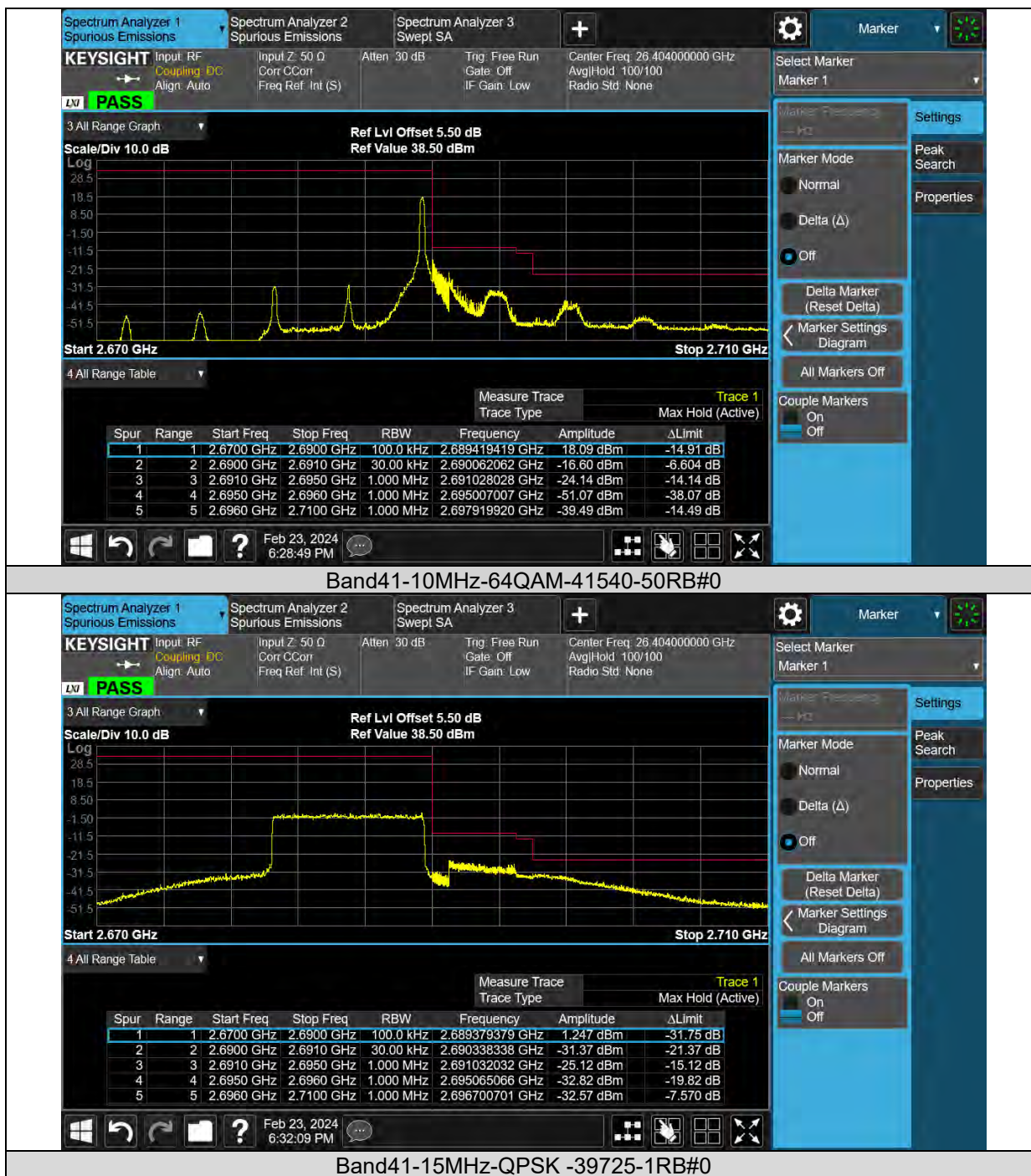




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VERITAS

Test Report No.: PSU-QSU2312200110RF04

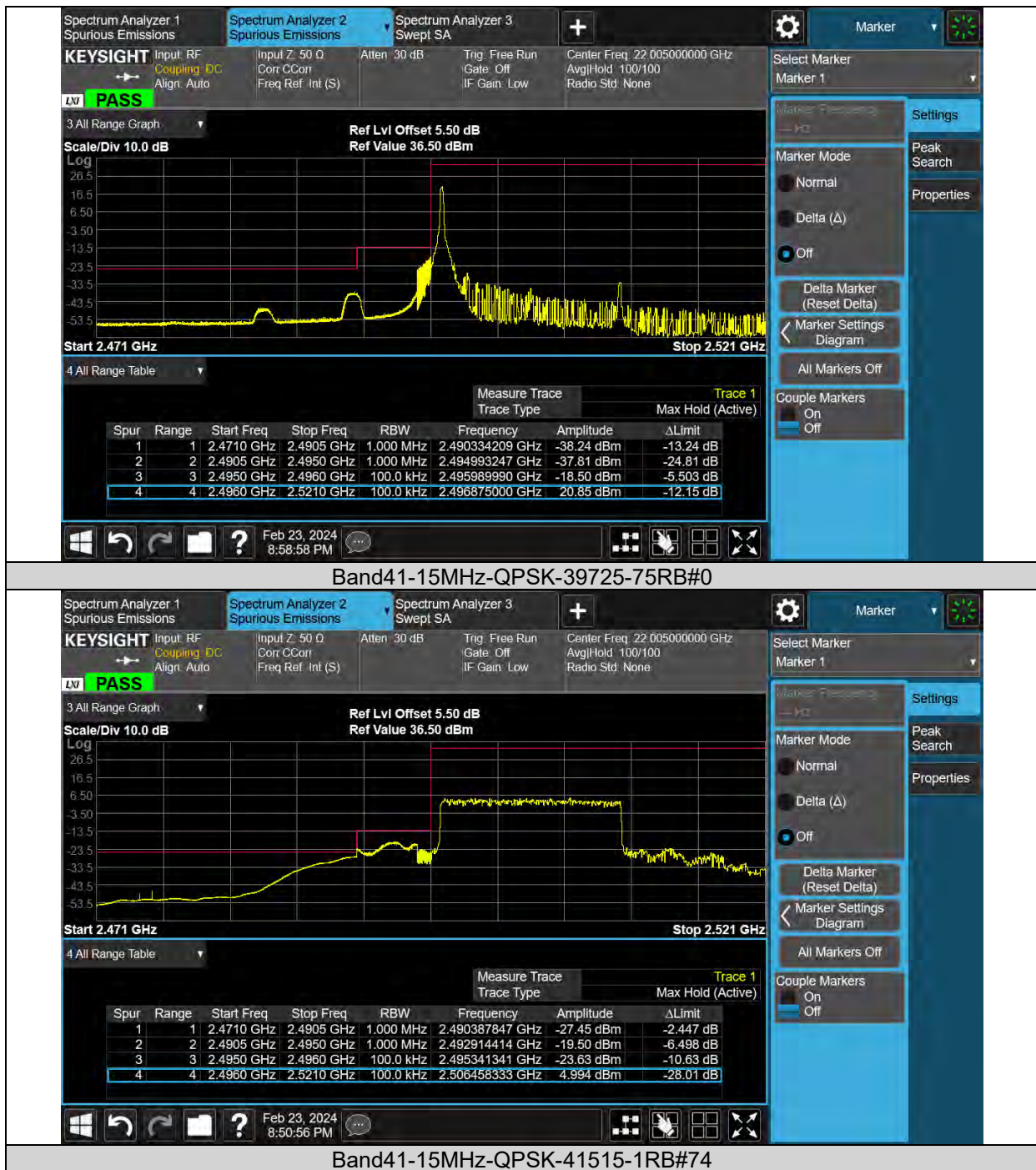


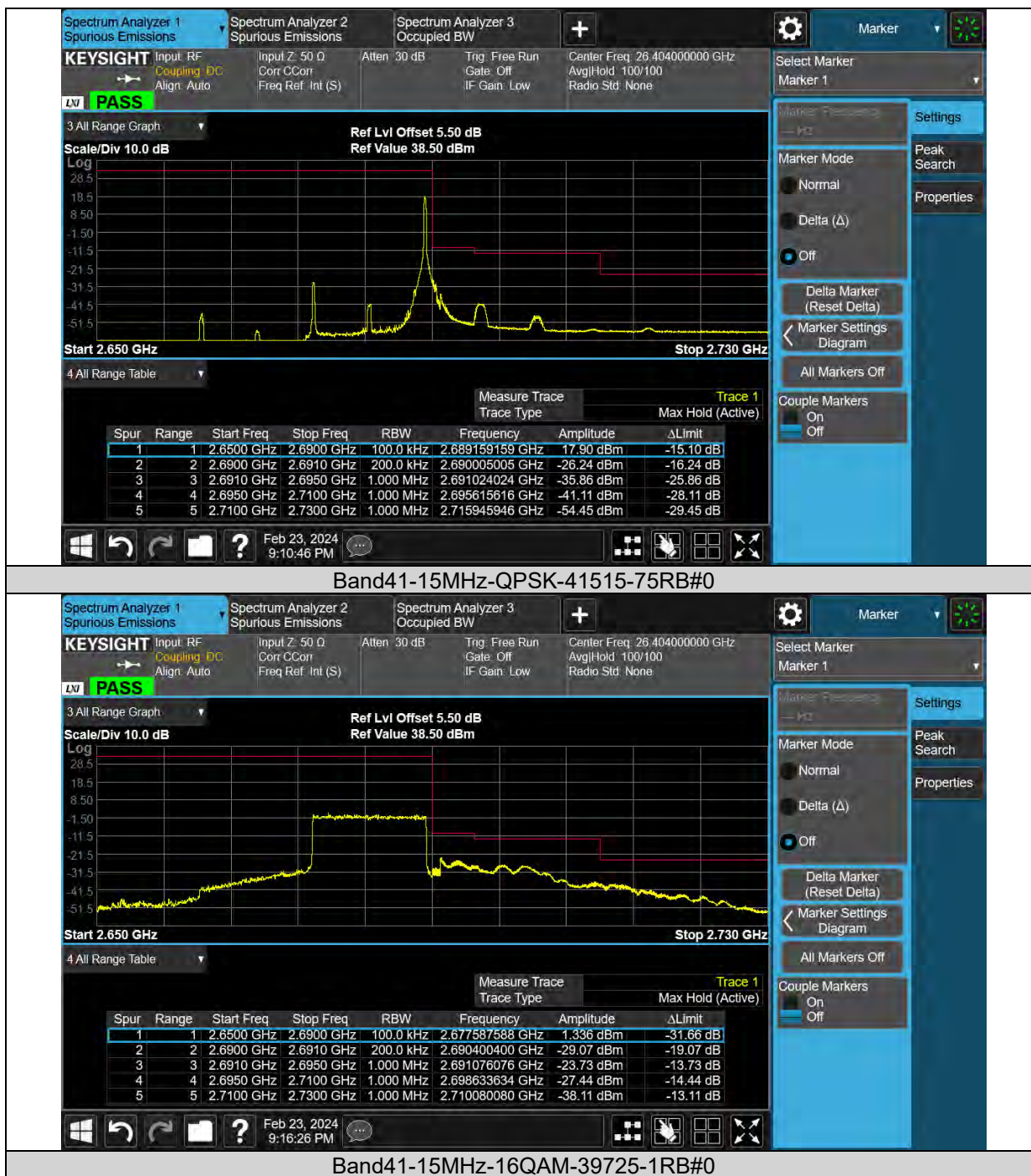


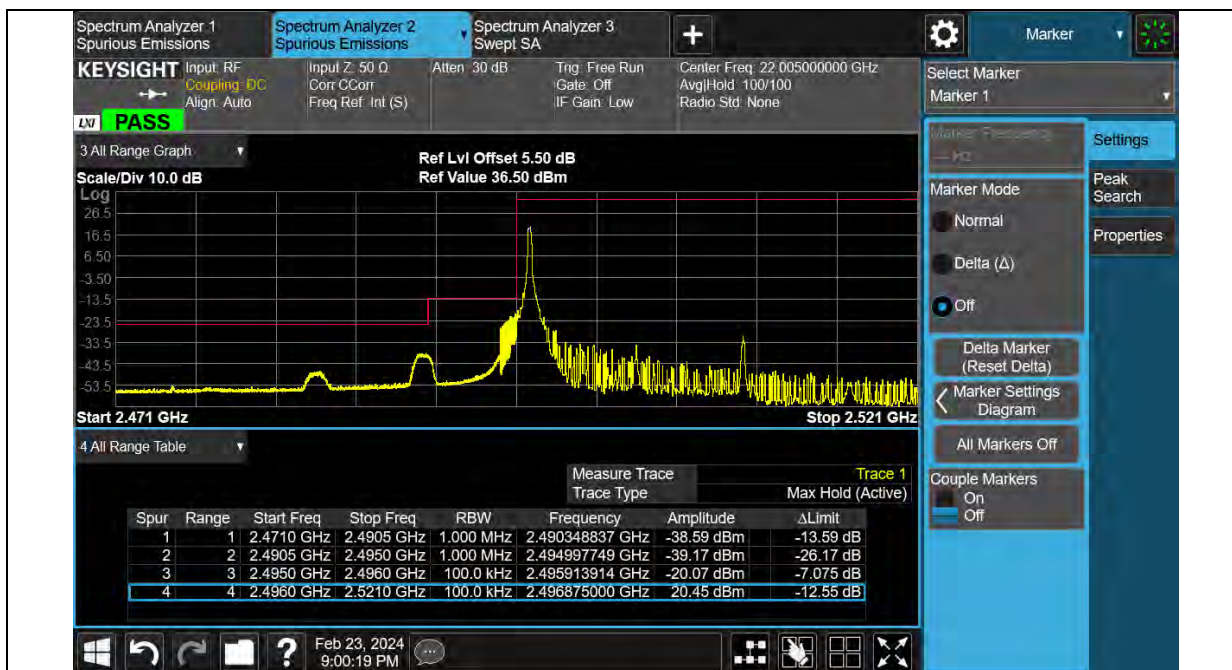


BUREAU
VERITAS

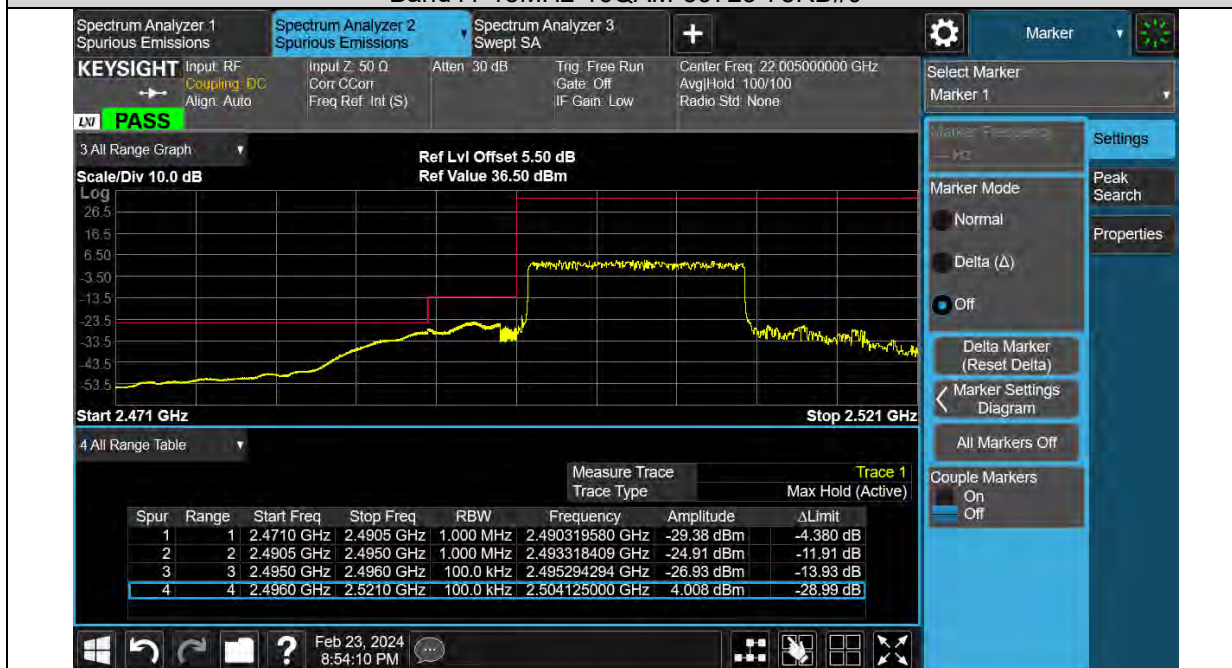
Test Report No.: PSU-QSU2312200110RF04



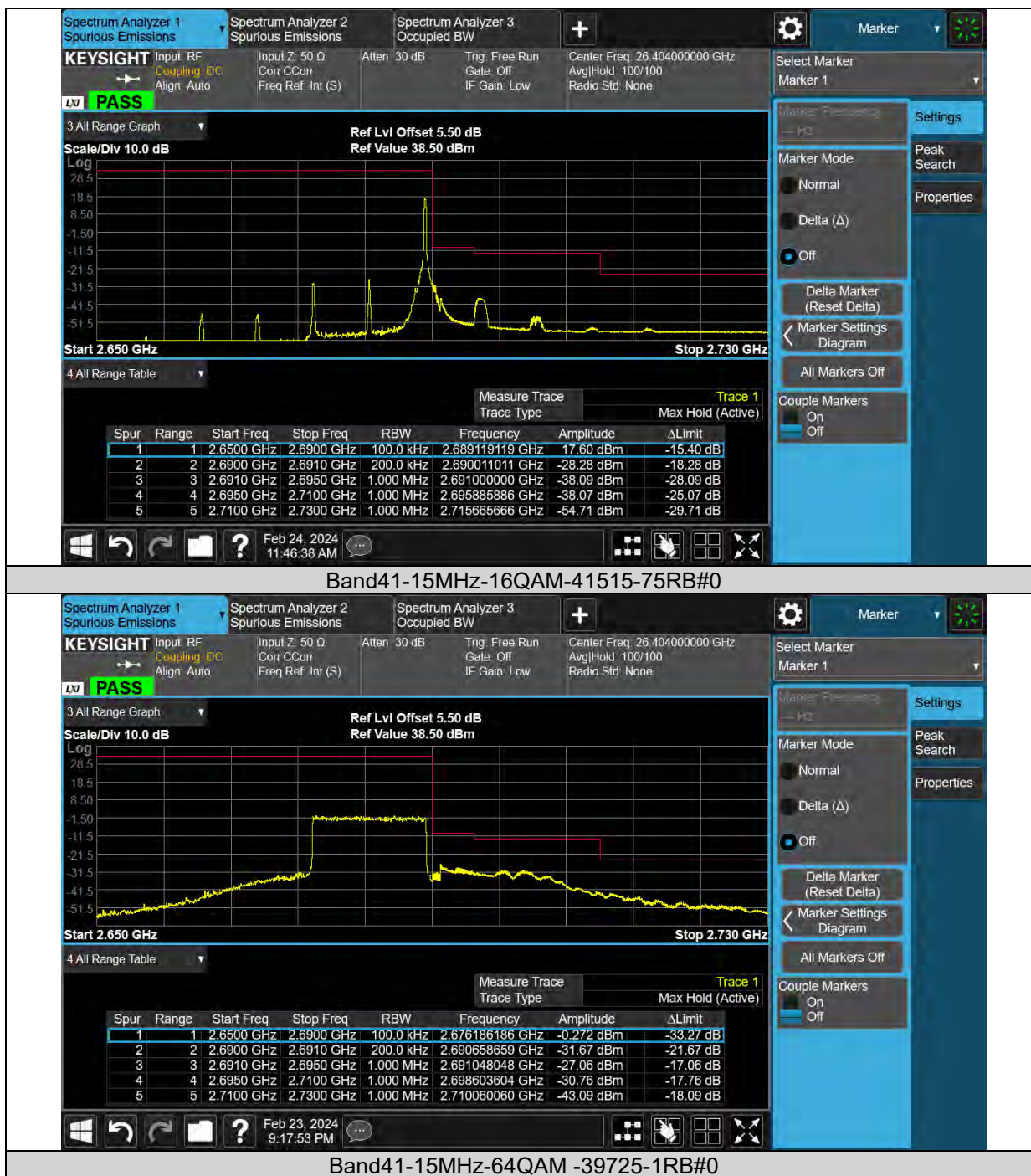




Band41-15MHz-16QAM-39725-75RB#0

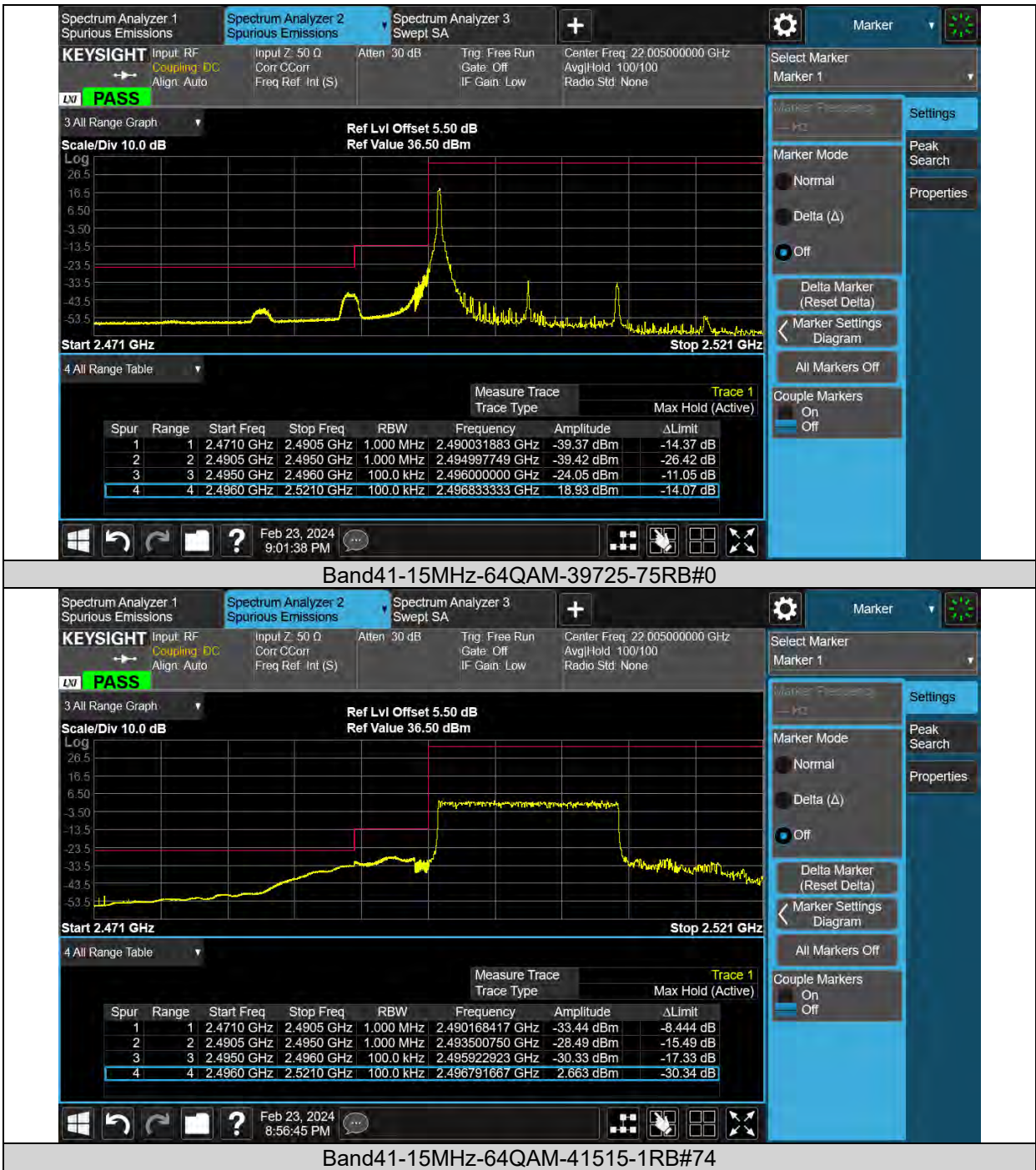


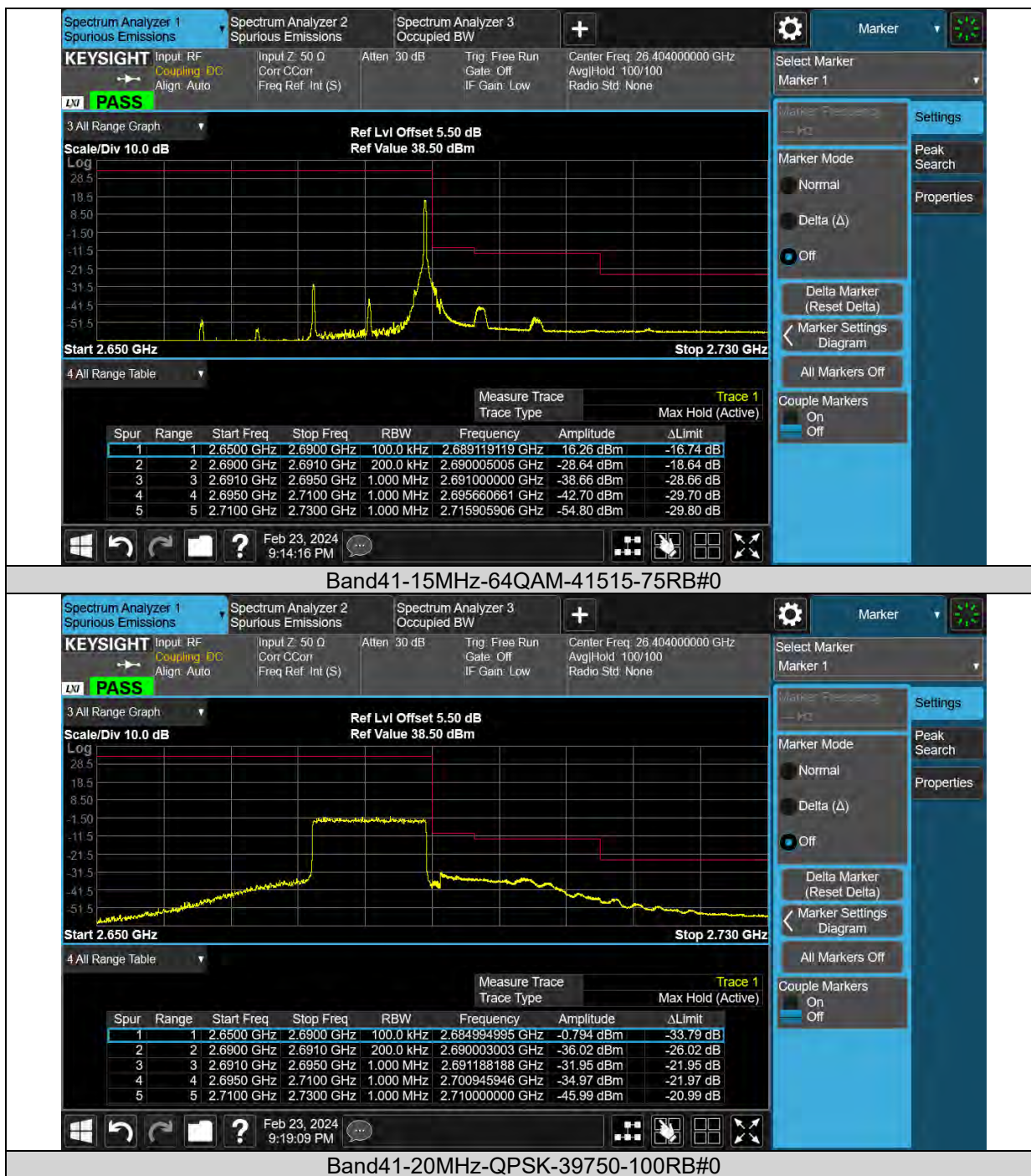
Band41-15MHz-16QAM-41515-1RB#74





Test Report No.: PSU-QSU2312200110RF04



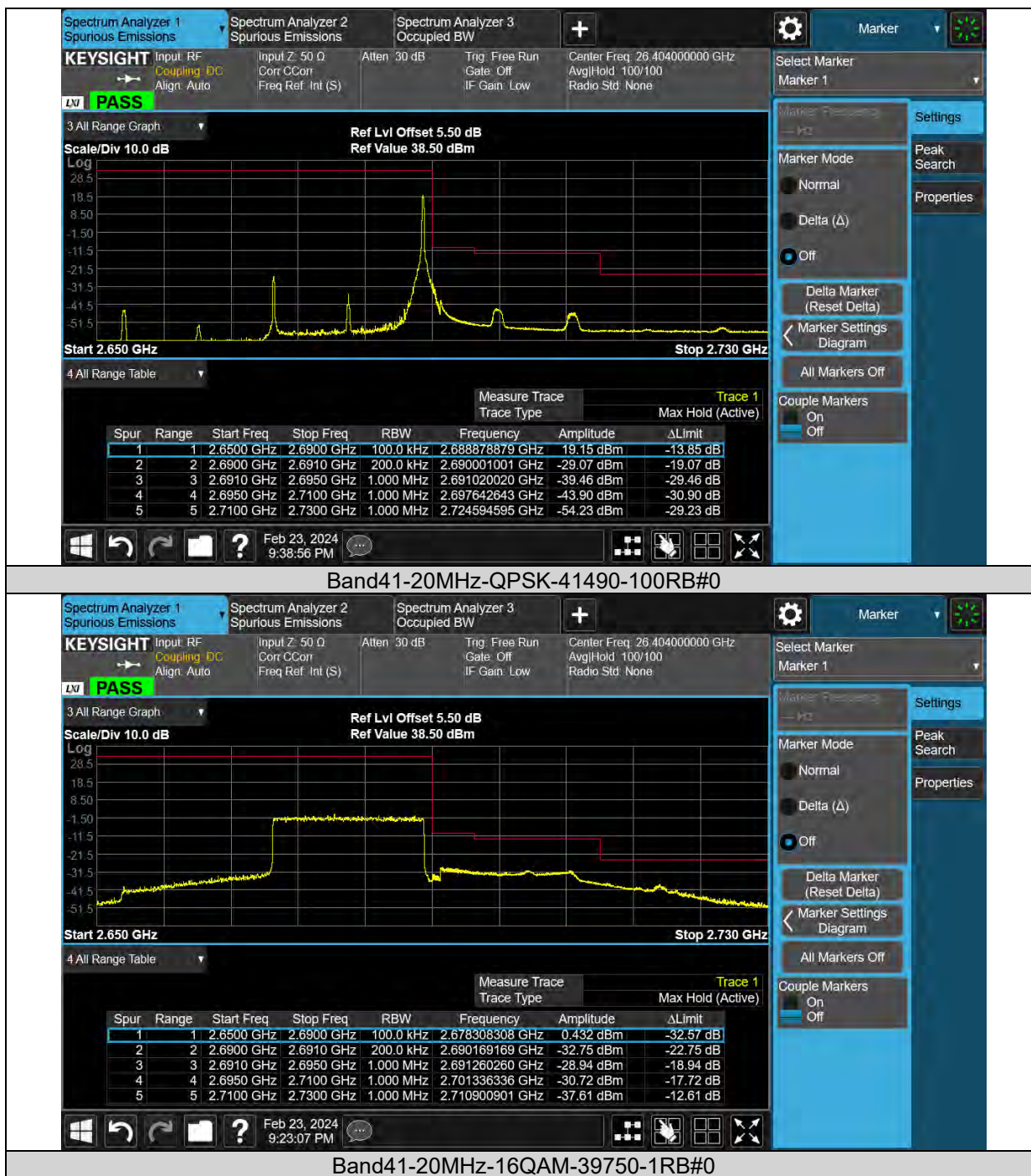




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VERITAS

Test Report No.: PSU-QSU2312200110RF04







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VERITAS

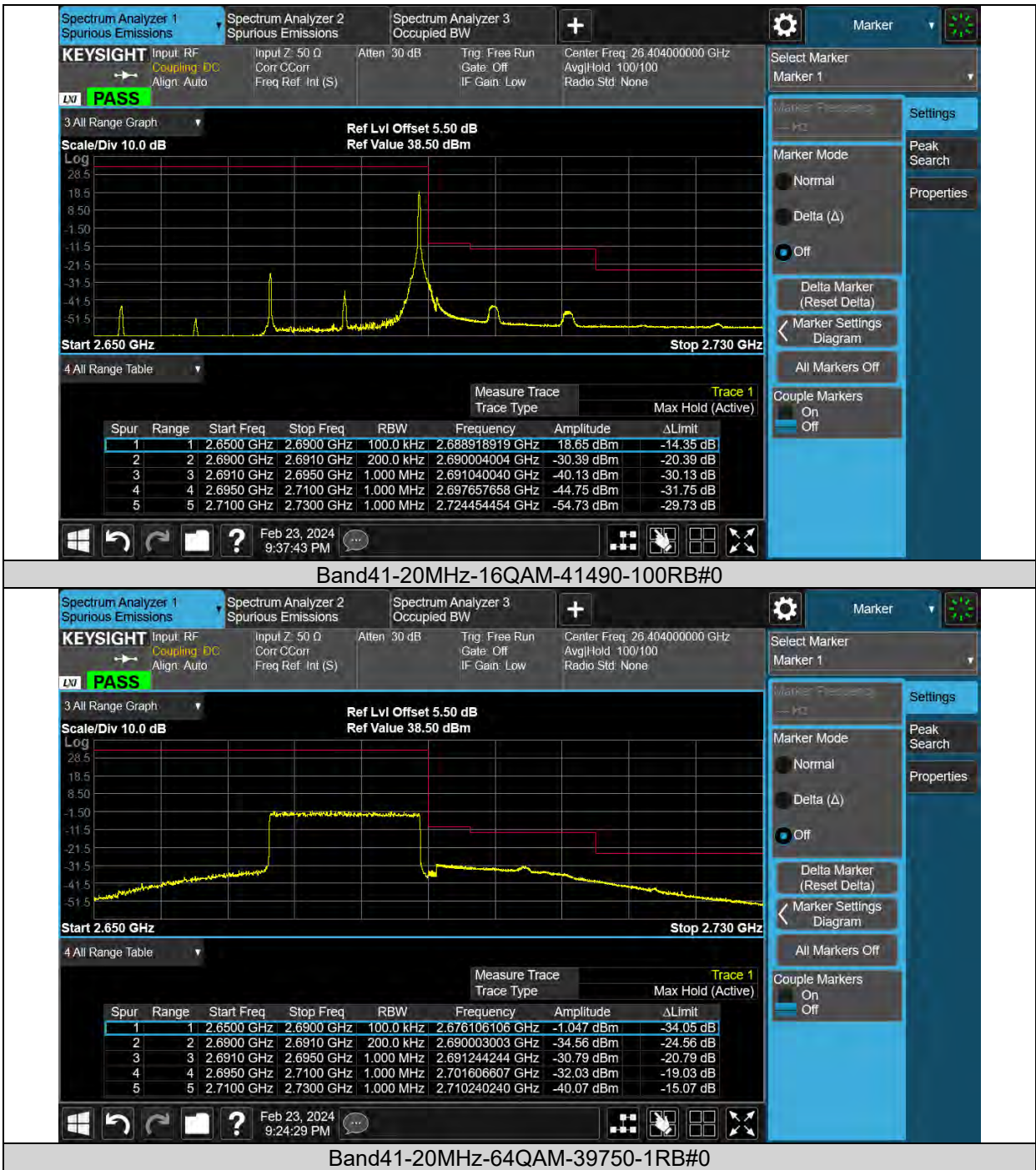
Test Report No.: PSU-QSU2312200110RF04





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VERITAS

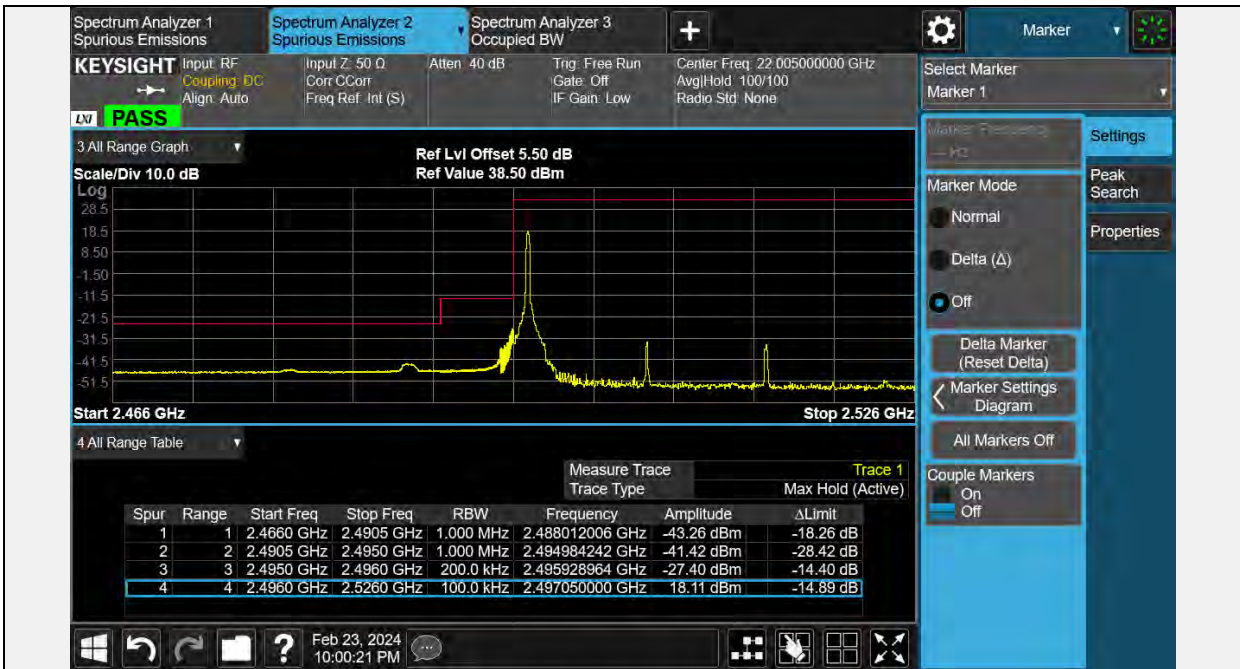
Test Report No.: PSU-QSU2312200110RF04



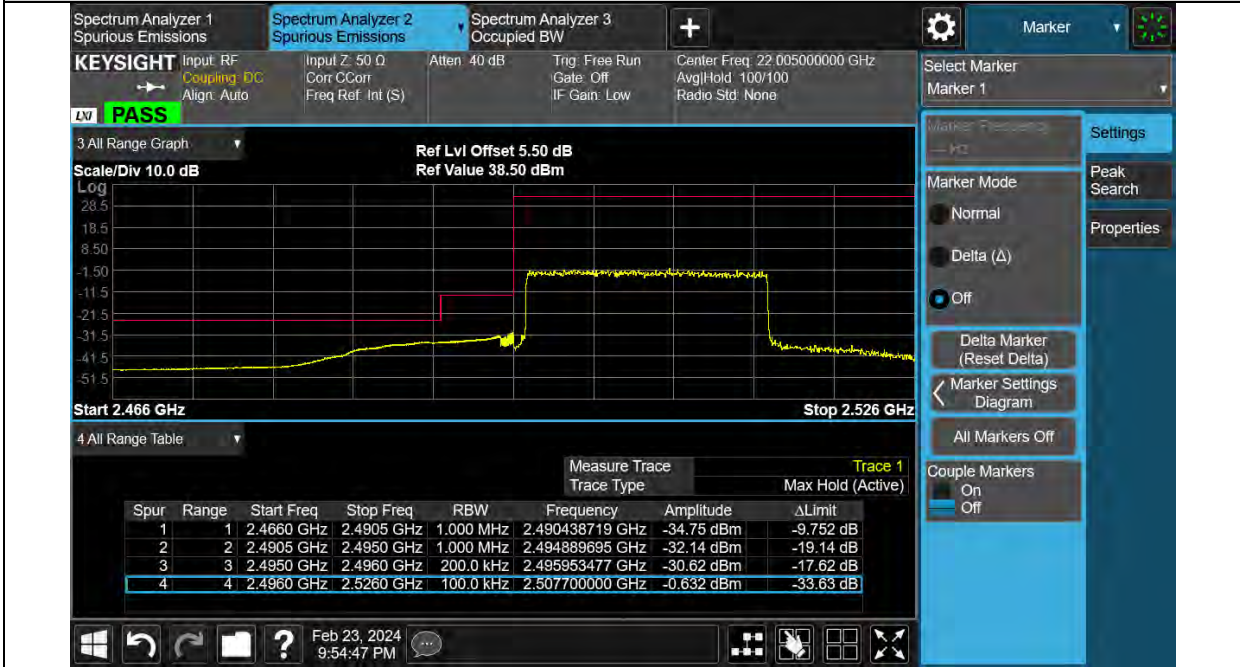


BUREAU
VERITAS

Test Report No.: PSU-QSU2312200110RF04



Band41-20MHz-64QAM-39750-100RB#0

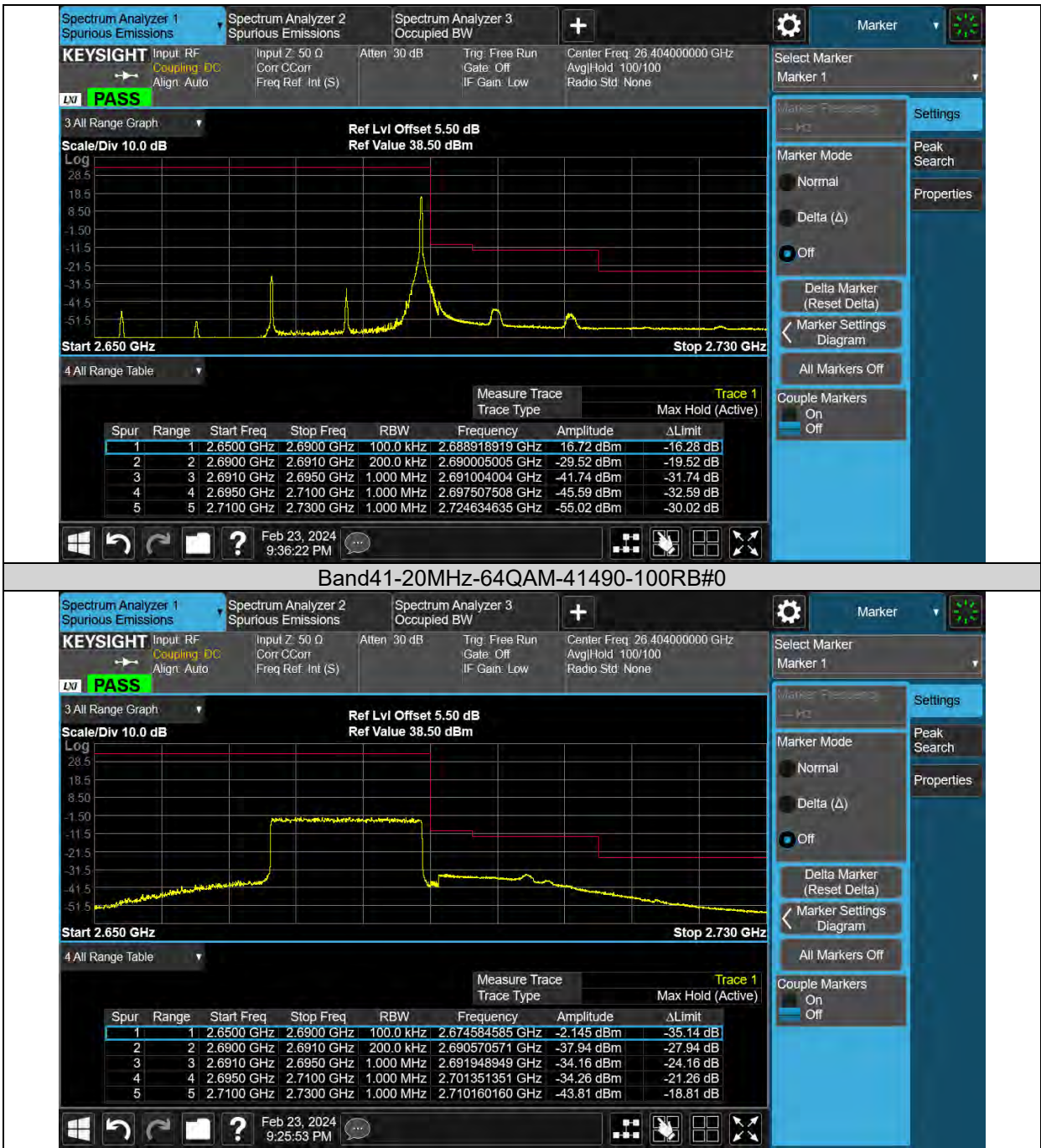


Band41-20MHz-64QAM-41490-1RB#99



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VERITAS

Test Report No.: PSU-QSU2312200110RF04



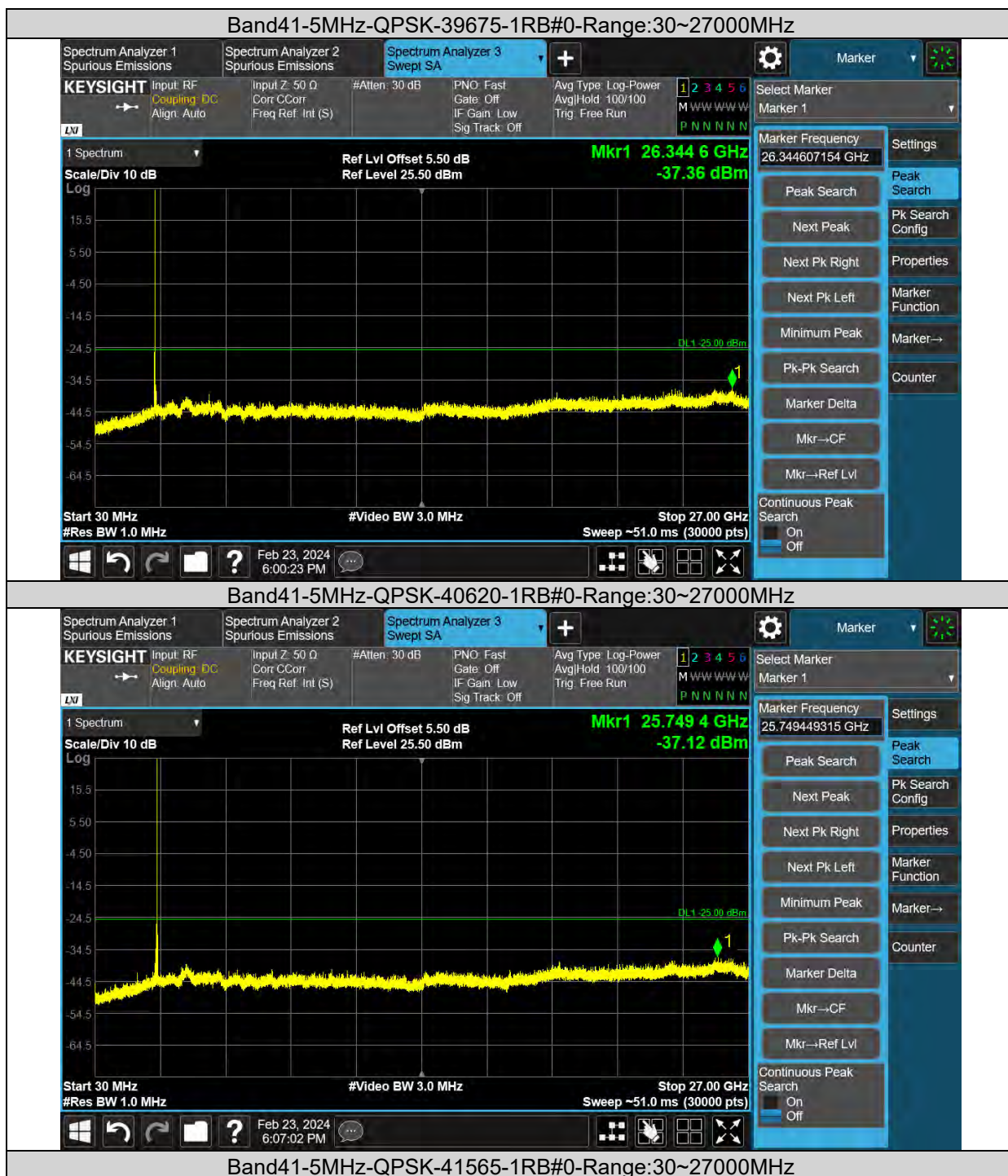
CONDUCTED SPURIOUS EMISSION

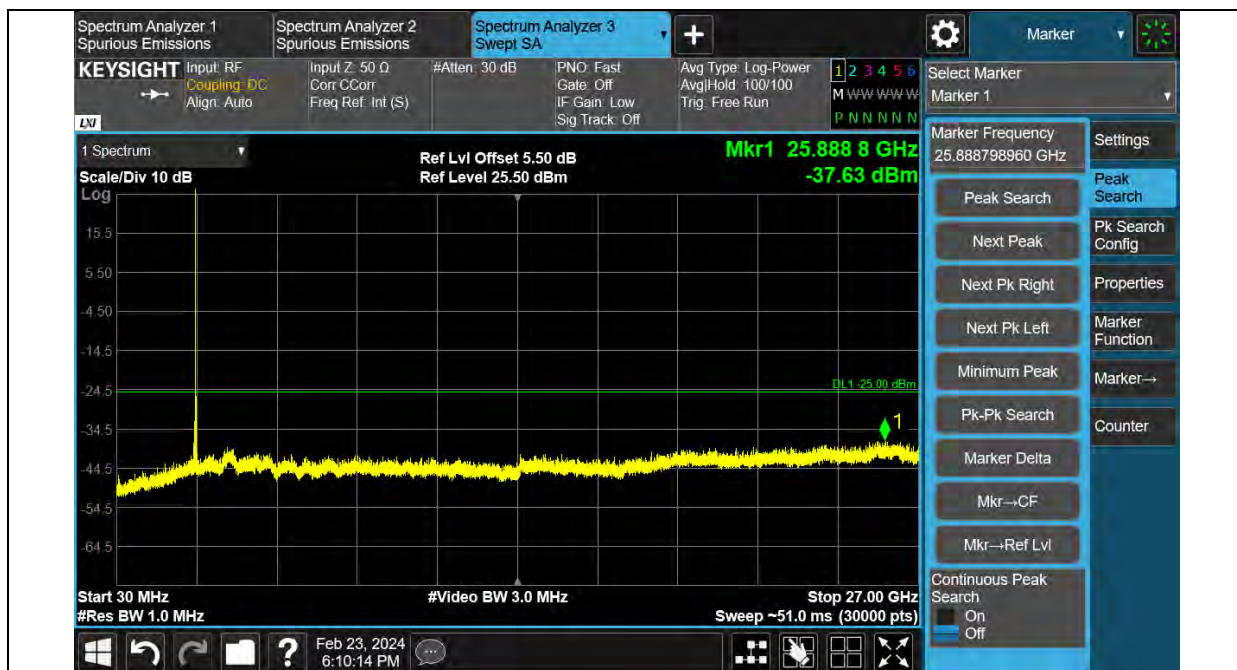
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	16QAM	39675	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	16QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	16QAM	41565	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	64QAM	39675	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	64QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	5MHz	64QAM	41565	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	QPSK	39700	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	QPSK	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	QPSK	41540	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	16QAM	39700	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	16QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	16QAM	41540	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	64QAM	39700	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	64QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	10MHz	64QAM	41540	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	QPSK	39725	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	QPSK	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	QPSK	41515	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	16QAM	39725	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	16QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS

Band41	15MHz	16QAM	41515	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	64QAM	39725	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	64QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	15MHz	64QAM	41515	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	16QAM	39750	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	16QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	16QAM	41490	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	64QAM	39750	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	64QAM	40620	1RB#0	Range:30~27000MHz	See Graph	PASS
Band41	20MHz	64QAM	41490	1RB#0	Range:30~27000MHz	See Graph	PASS

Test Graphs

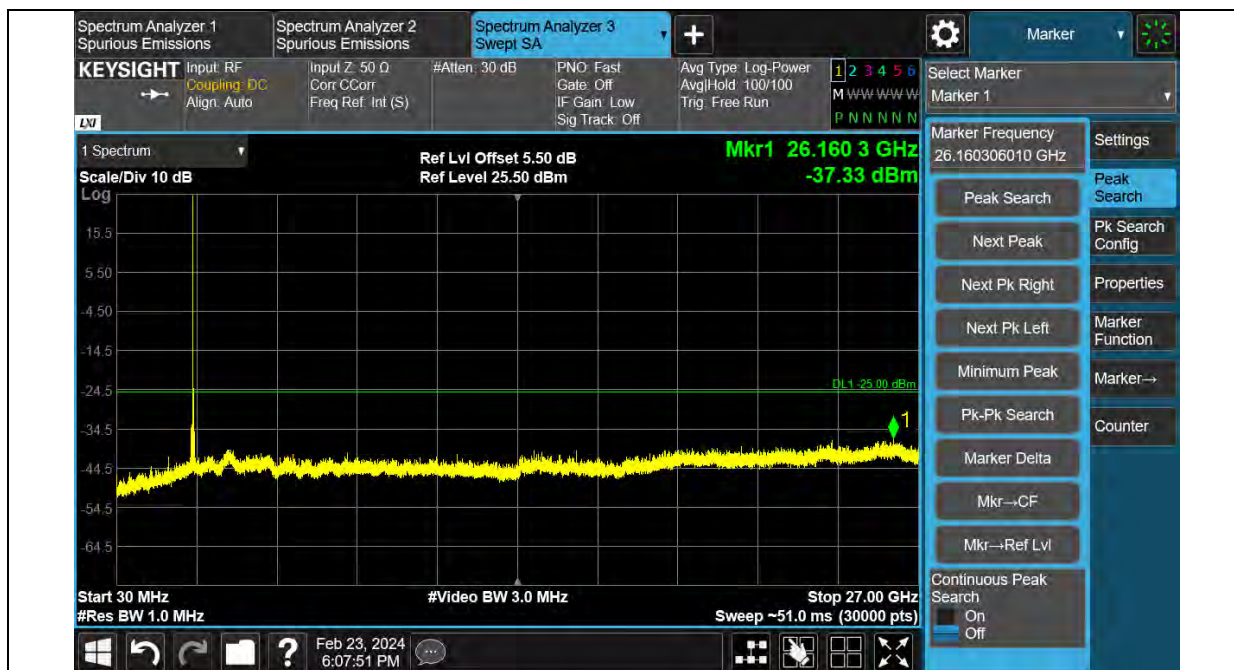




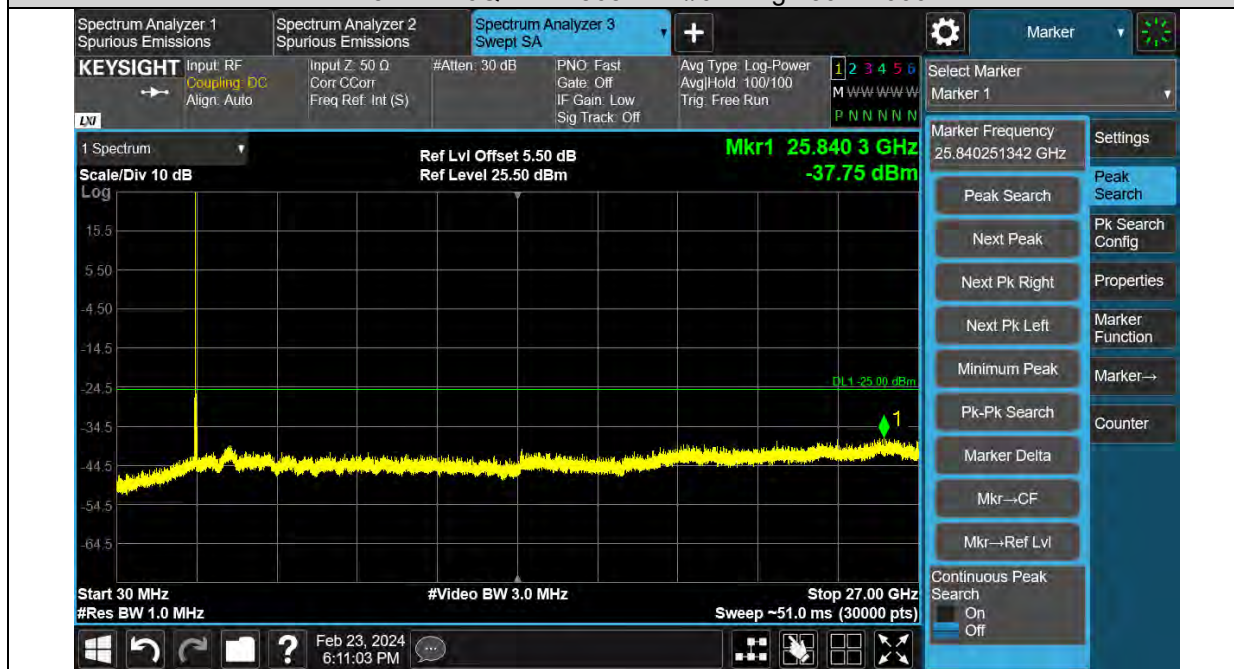
Band41-5MHz-16QAM-39675-1RB#0-Range:30~27000MHz



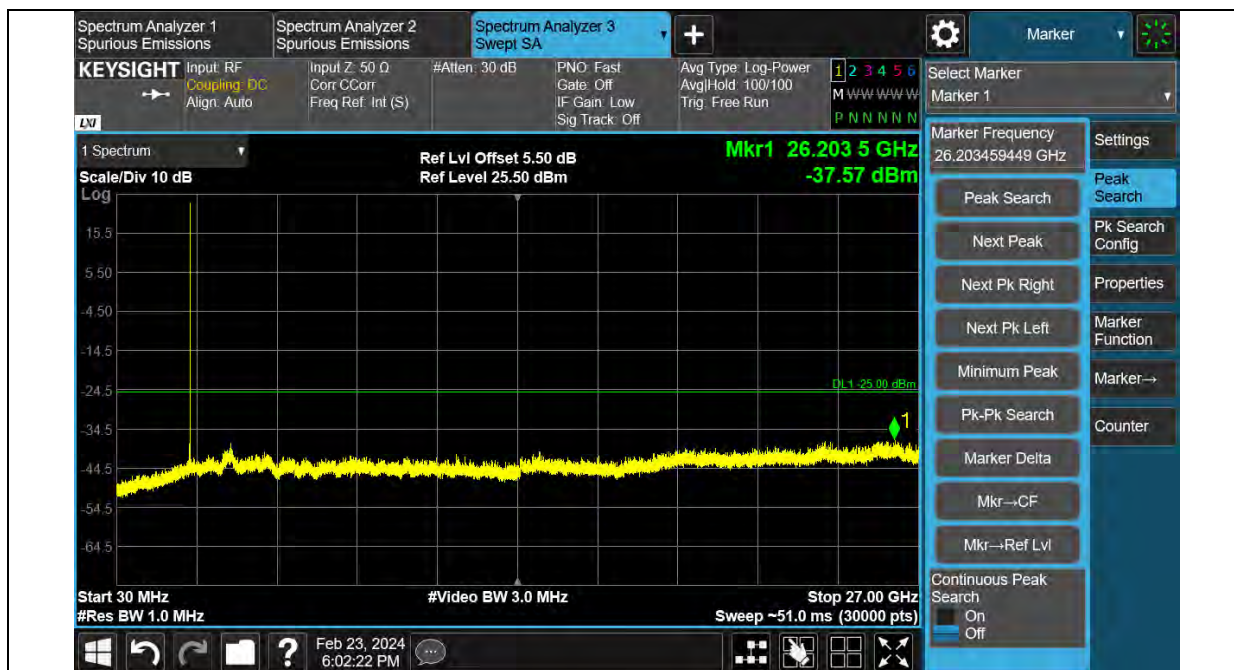
Band41-5MHz-16QAM-40620-1RB#0-Range:30~27000MHz



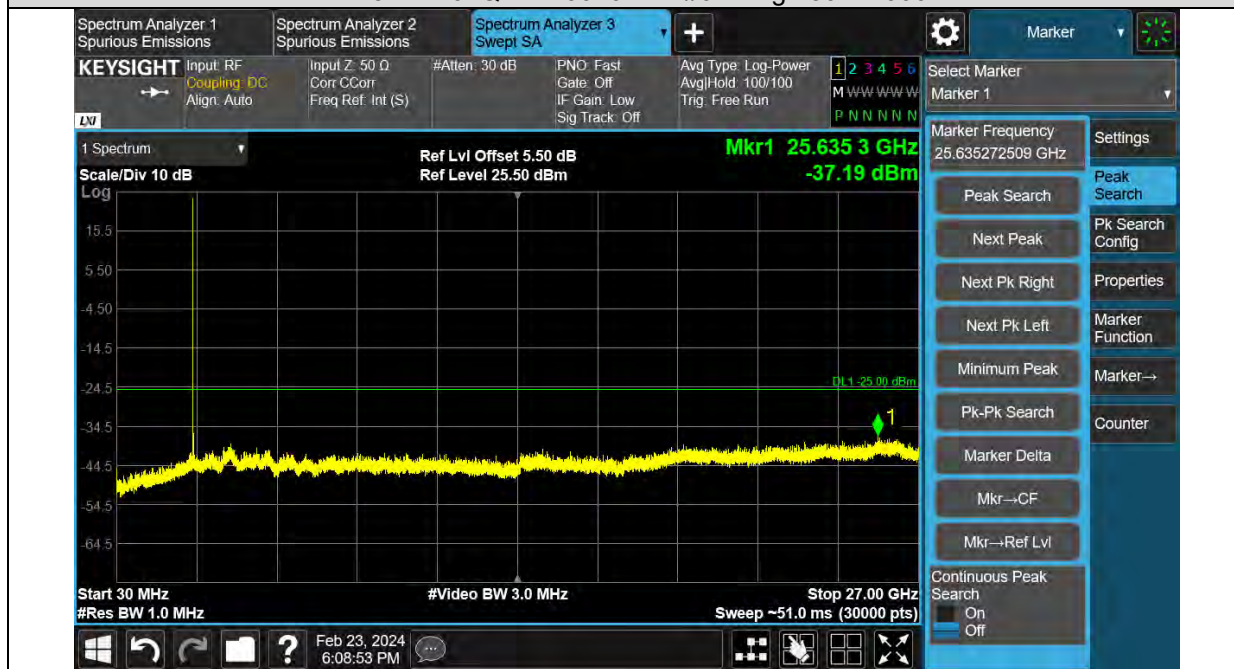
Band41-5MHz-16QAM-41565-1RB#0-Range:30~27000MHz



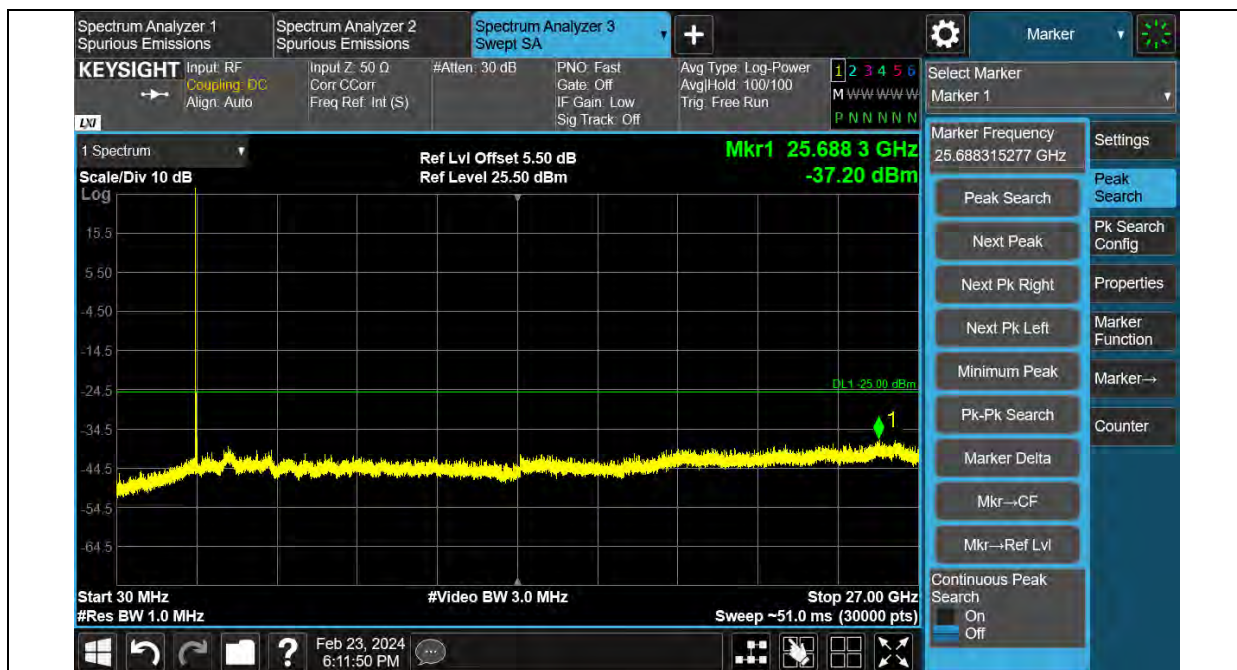
Band41-5MHz-64QAM-39675-1RB#0-Range:30~27000MHz



Band41-5MHz-64QAM-40620-1RB#0-Range:30~27000MHz



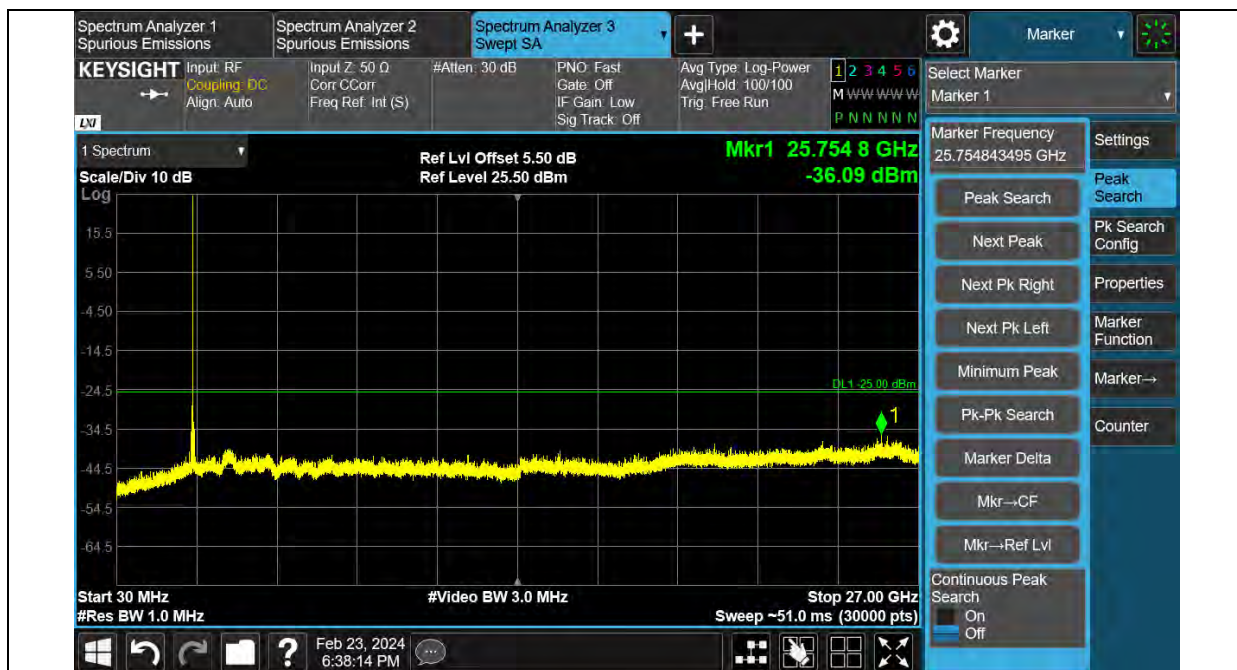
Band41-5MHz-64QAM-41565-1RB#0-Range:30~27000MHz



Band41-10MHz-QPSK-39700-1RB#0-Range:30~27000MHz



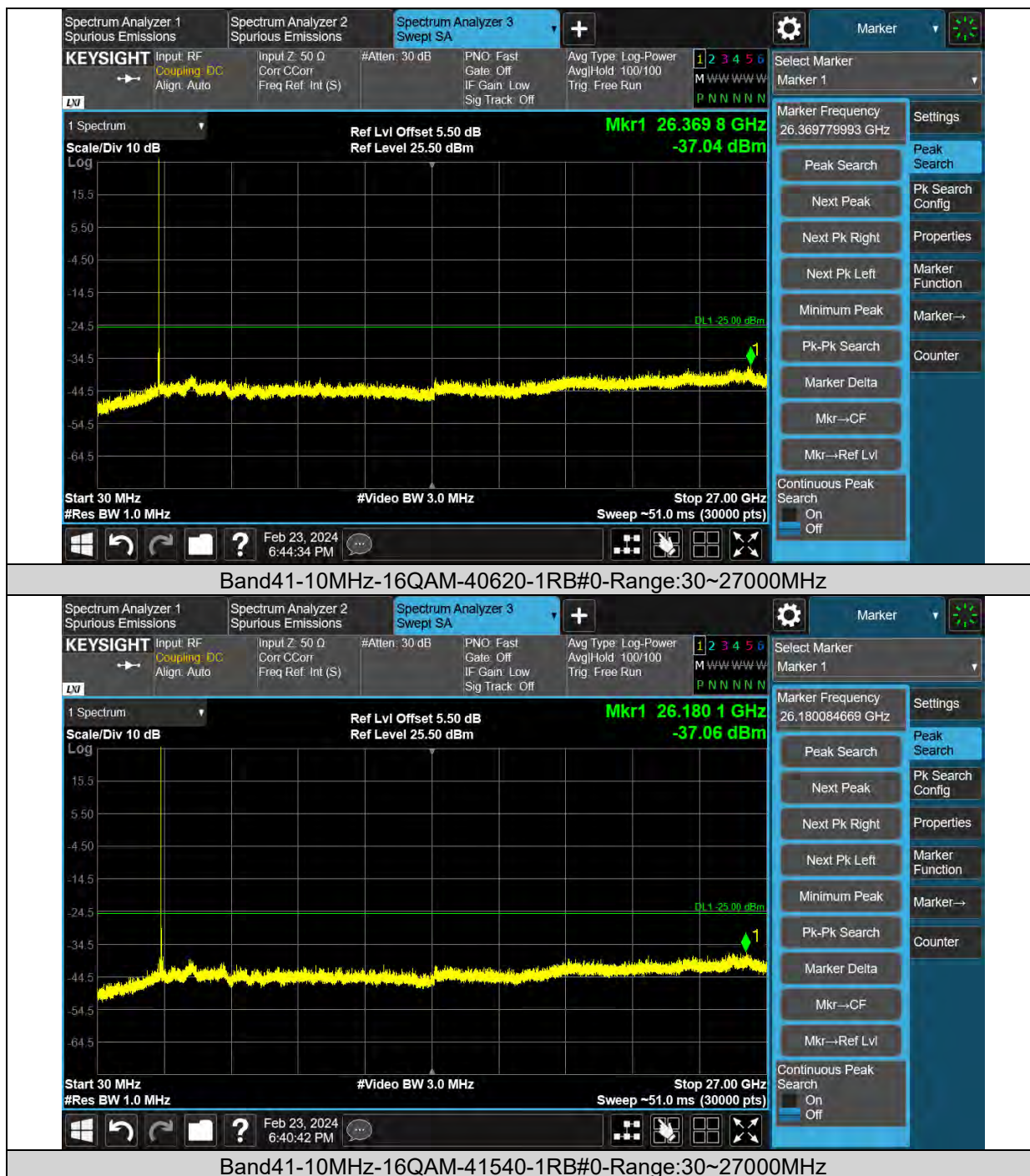
Band41-10MHz-QPSK-40620-1RB#0-Range:30~27000MHz

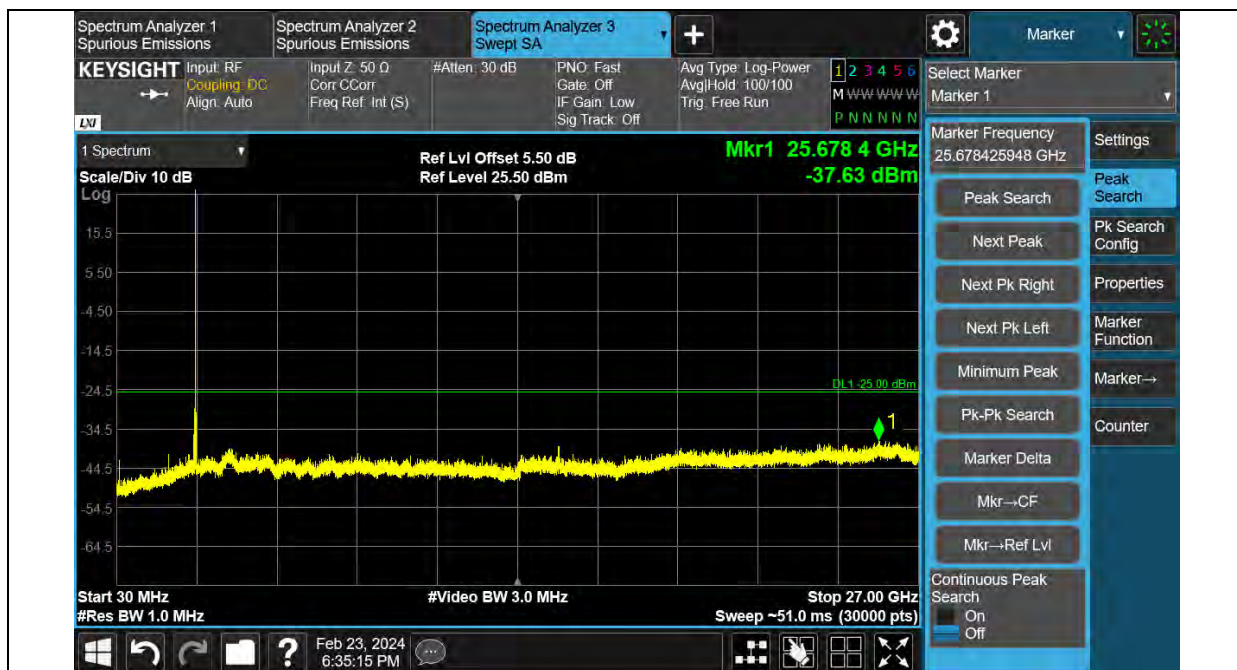


Band41-10MHz-QPSK-41540-1RB#0-Range:30~27000MHz



Band41-10MHz-16QAM-39700-1RB#0-Range:30~27000MHz

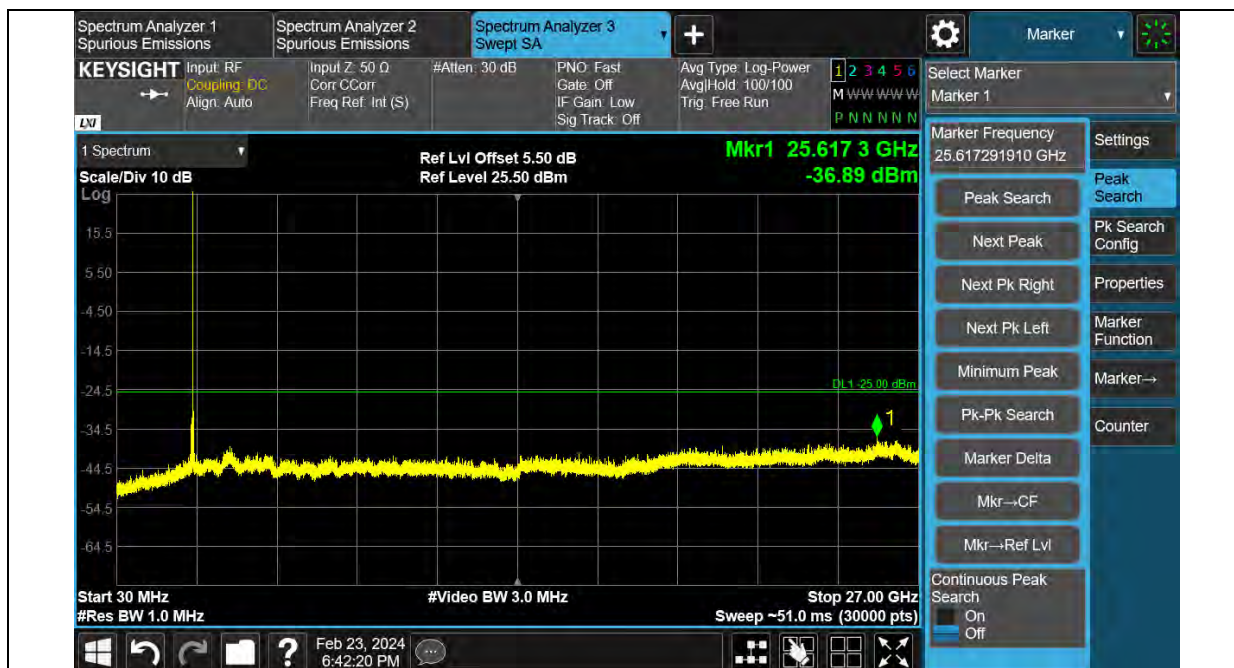




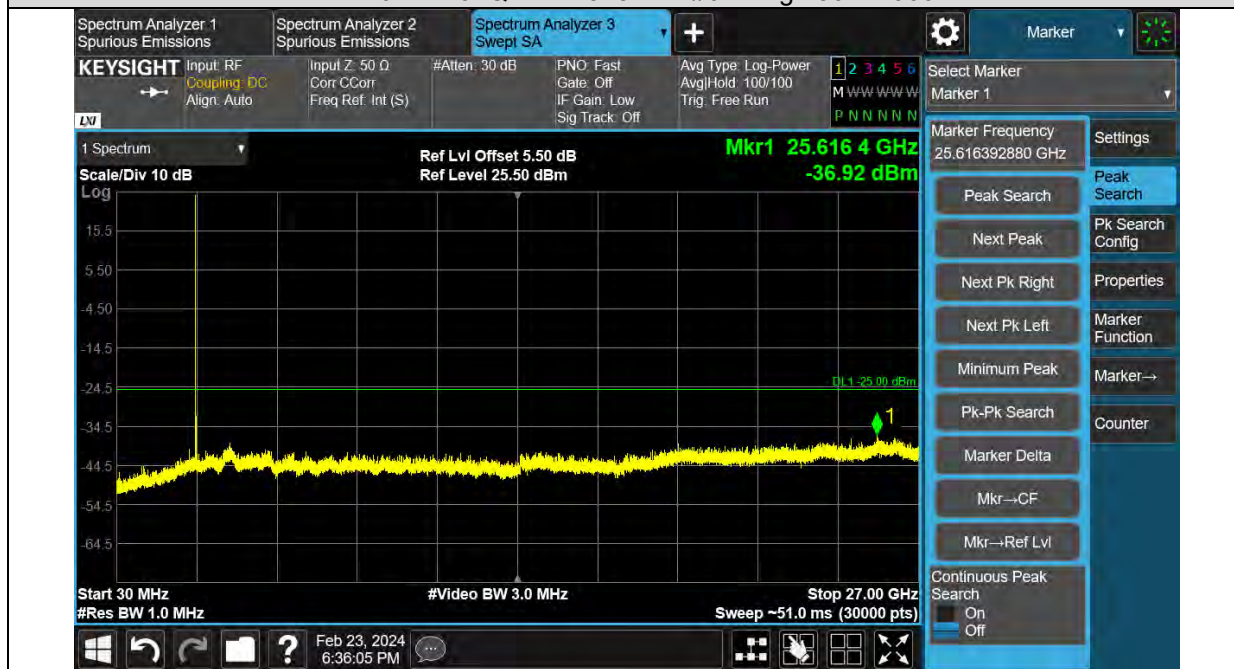
Band41-10MHz-64QAM-39725-1RB#0-Range:30~27000MHz



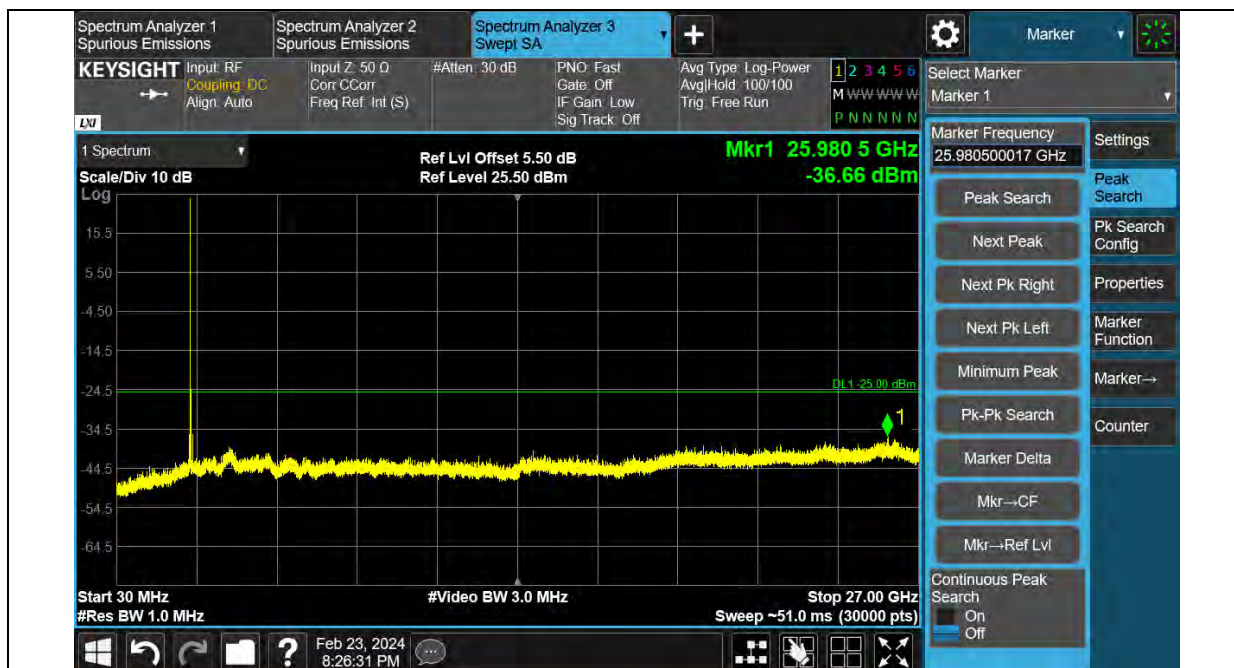
Band41-10MHz-64QAM-40620-1RB#0-Range:30~27000MHz



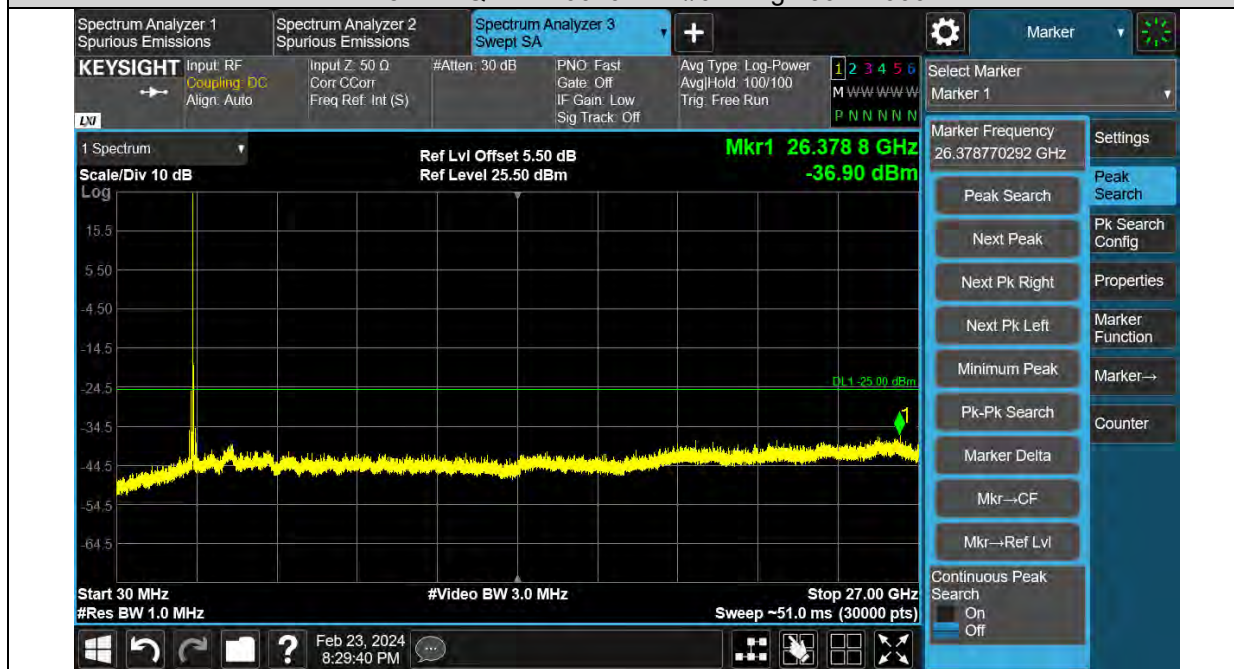
Band41-10MHz-64QAM-41515-1RB#0-Range:30~27000MHz



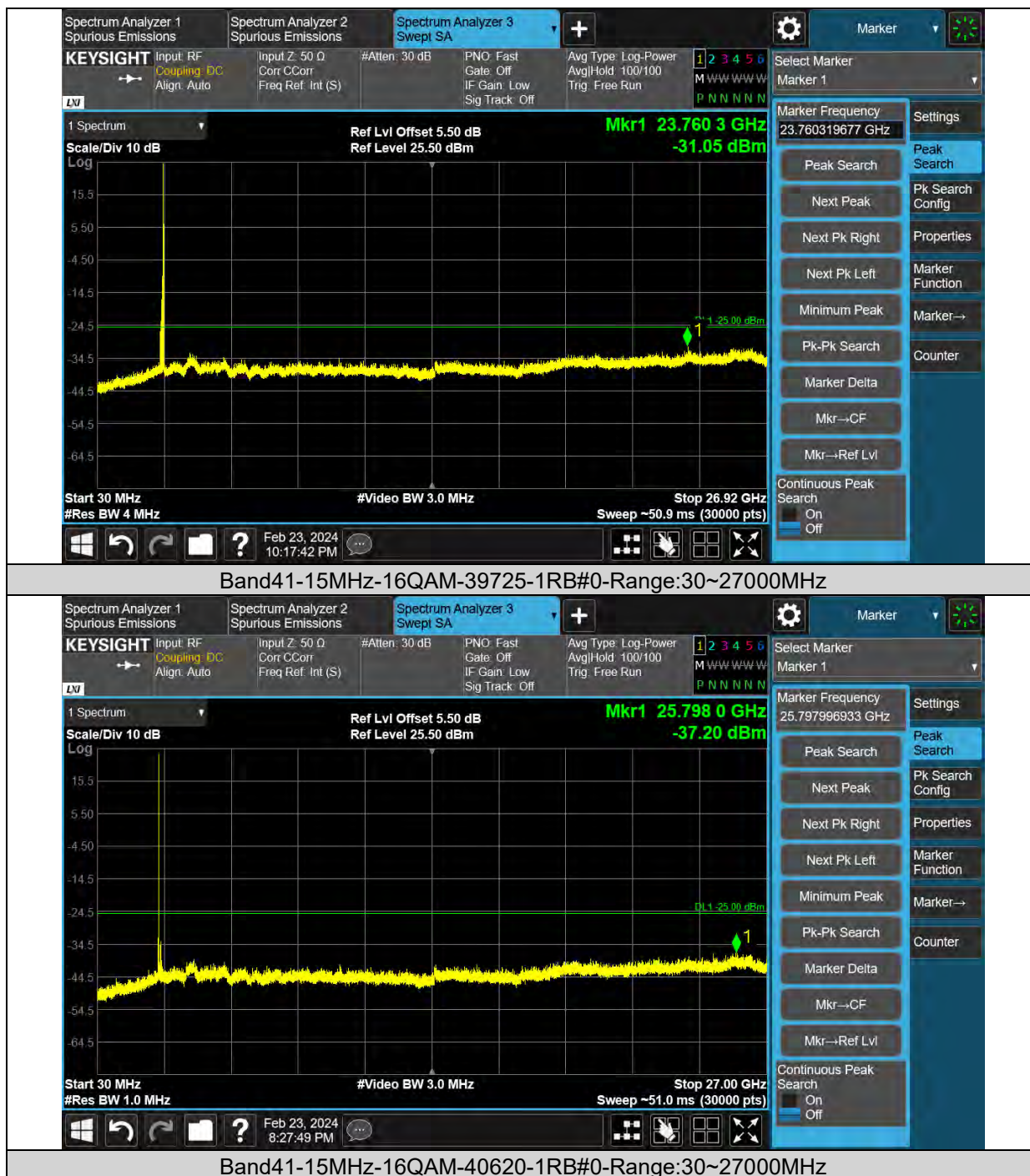
Band41-15MHz-QPSK-39725-1RB#0-Range:30~27000MHz

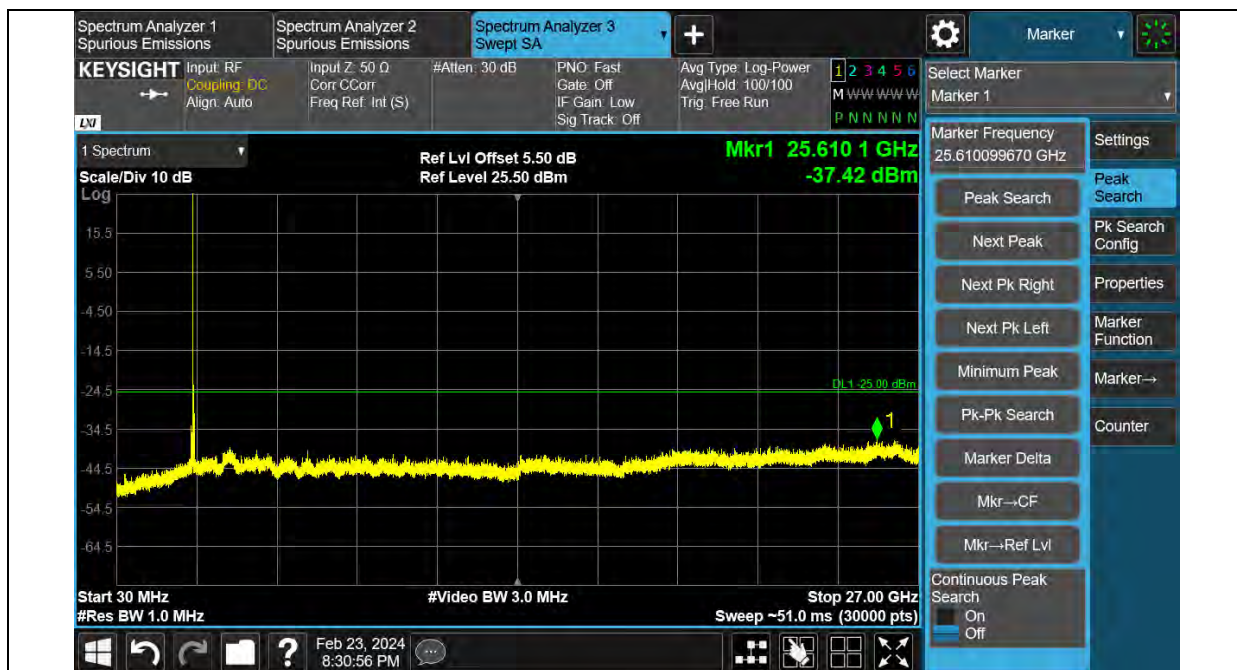


Band41-15MHz-QPSK-40620-1RB#0-Range:30~27000MHz



Band41-15MHz-QPSK-41515-1RB#0-Range:30~27000MHz

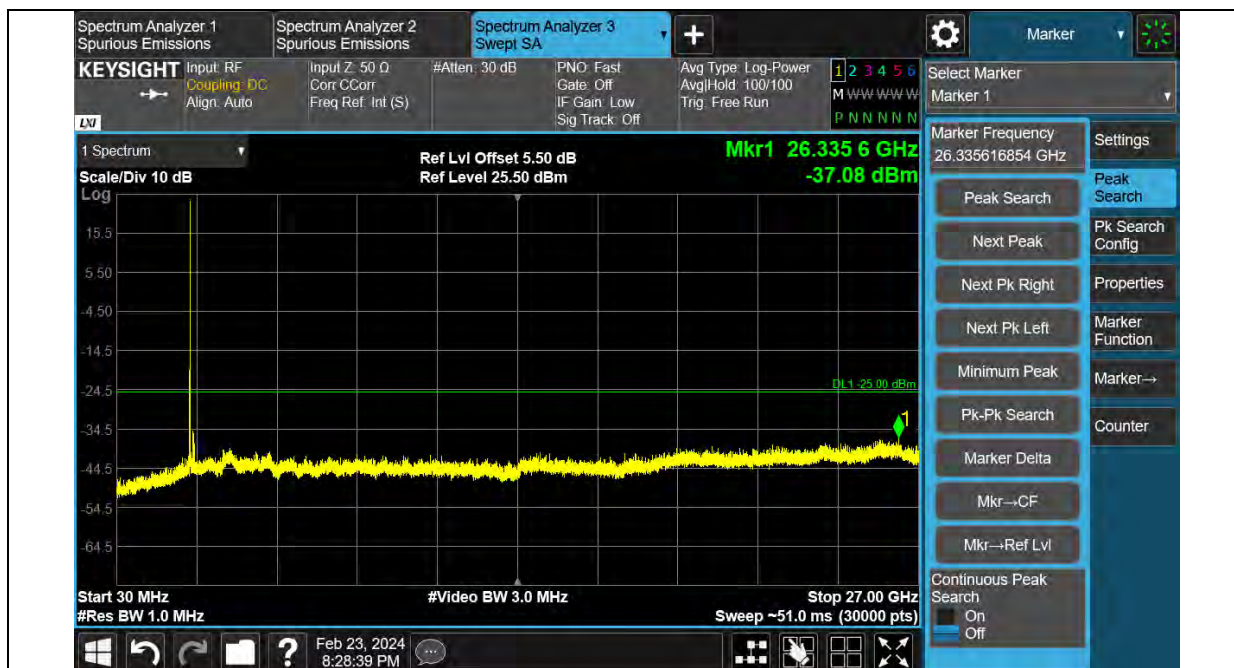




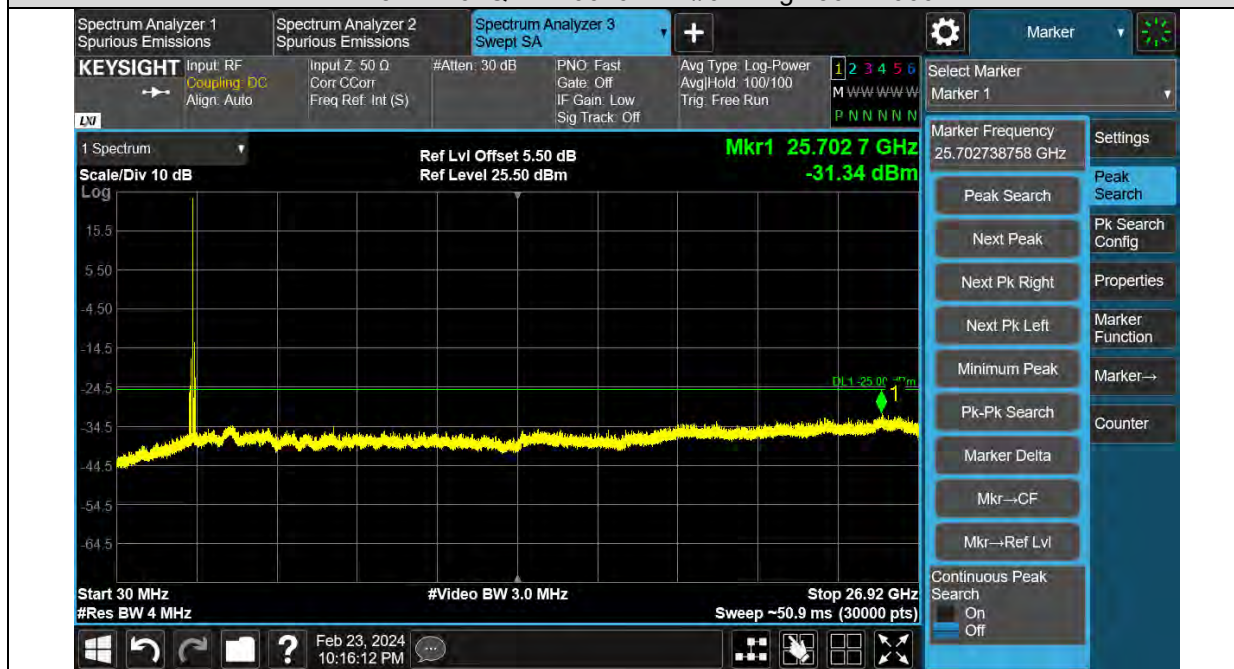
Band41-15MHz-16QAM-41515-1RB#0-Range:30~27000MHz



Band41-15MHz-64QAM-39725-1RB#0-Range:30~27000MHz



Band41-15MHz-64QAM-40620-1RB#0-Range:30~27000MHz



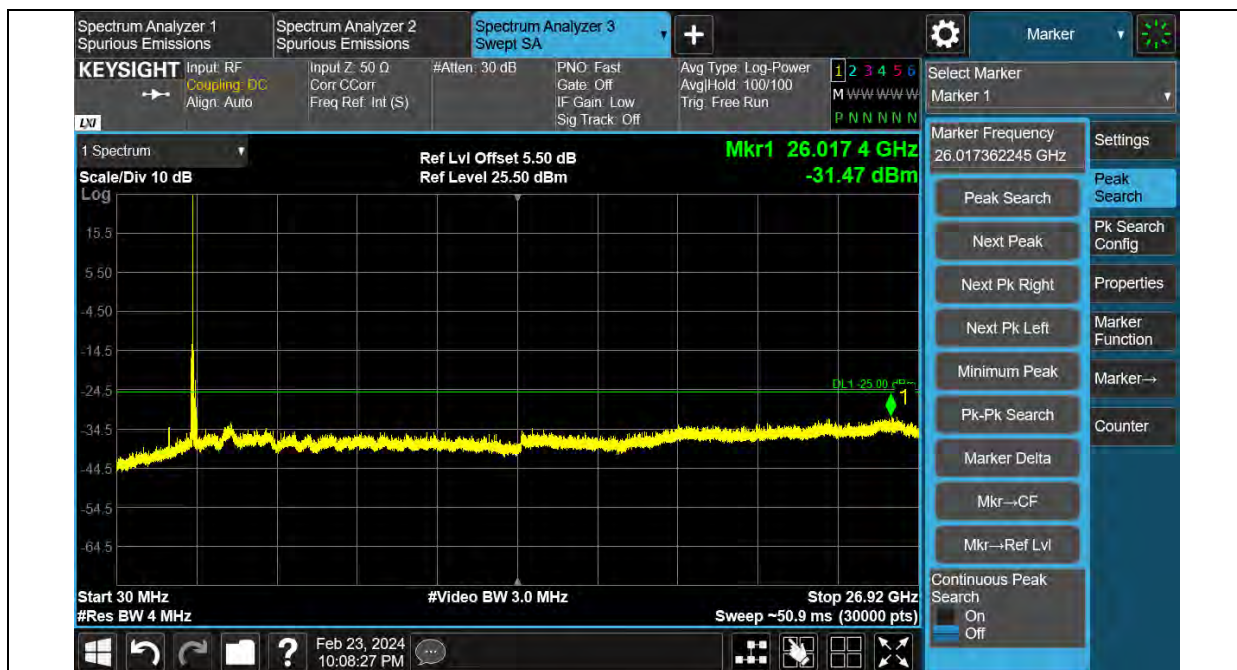
Band41-15MHz-64QAM-41515-1RB#0-Range:30~27000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range:30~27000MHz



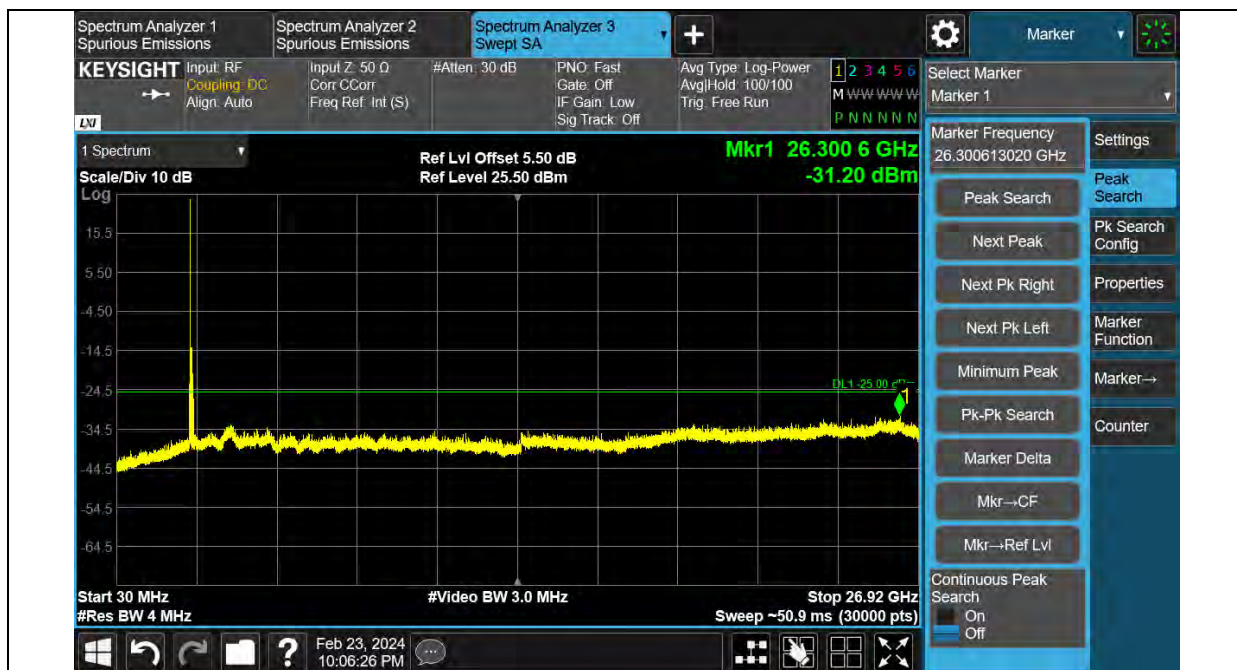
Band41-20MHz-QPSK-40620-1RB#0-Range:30~27000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range:30~27000MHz



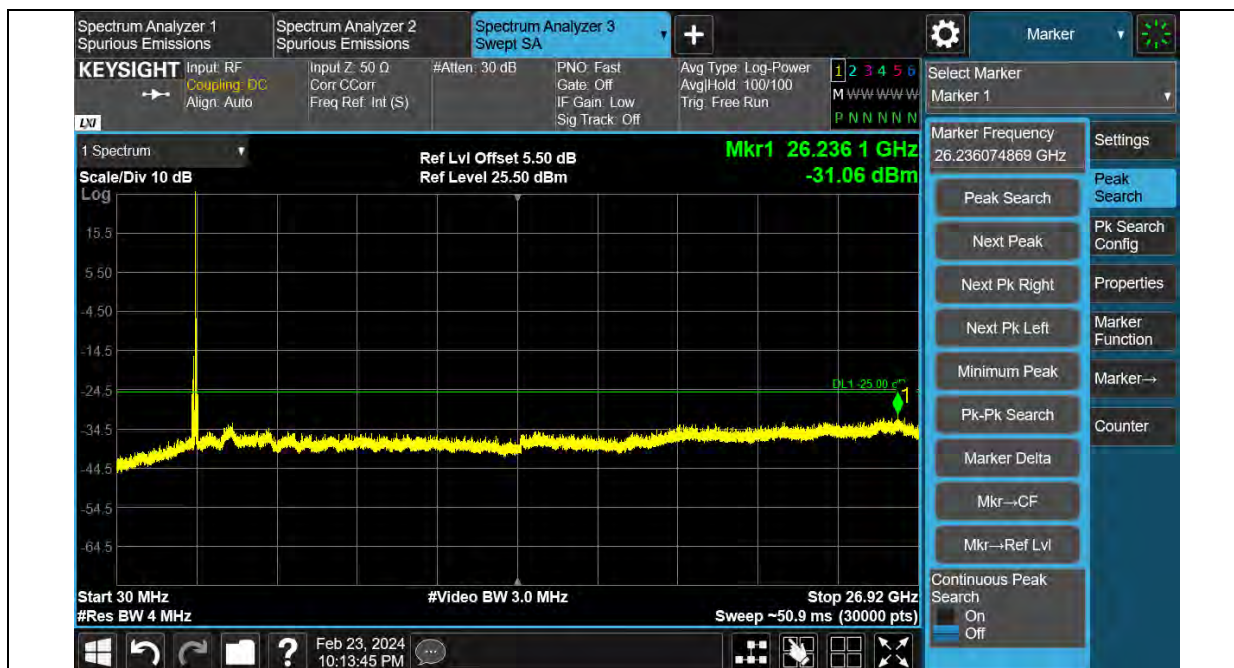
Band41-20MHz-16QAM-39750-1RB#0-Range:30~27000MHz



Band41-20MHz-16QAM-40620-1RB#0-Range:30~27000MHz



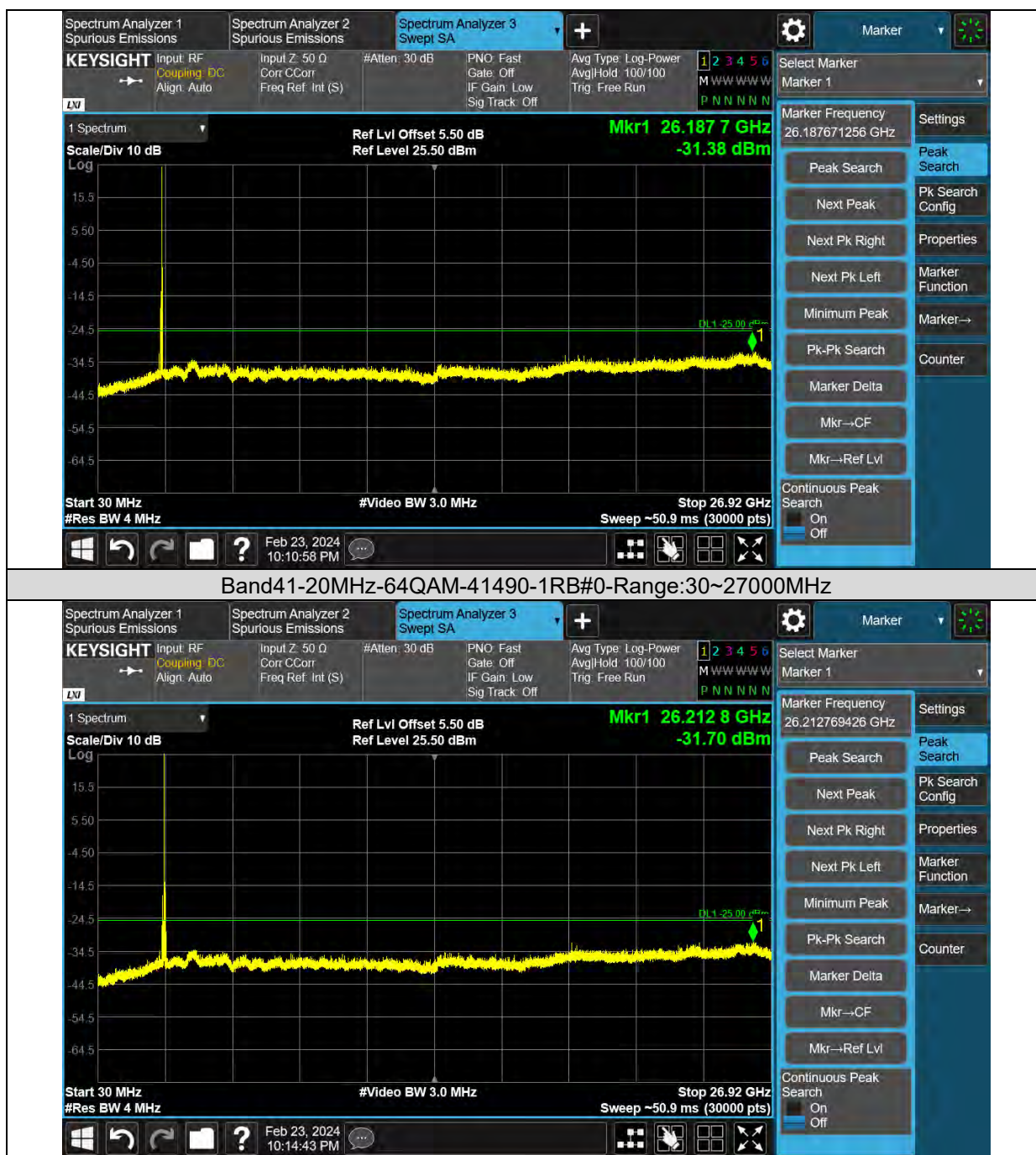
Band41-20MHz-16QAM-41490-1RB#0-Range:30~27000MHz



Band41-20MHz-64QAM-39750-1RB#0-Range:30~27000MHz



Band41-20MHz-64QAM-40620-1RB#0-Range:30~27000MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	1.5	0.000599	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	26.4	0.010535	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-7.2	-0.002873	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	12	0.004628	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-13.8	-0.005322	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	33.9	0.013074	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-16.4	-0.006119	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-33.6	-0.012537	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	9.6	0.003582	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-33.9	-0.013528	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	27.1	0.010814	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	29.9	0.011931	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-30.8	-0.011878	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-16.2	-0.006248	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-23.3	-0.008986	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-31.5	-0.011754	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-15.5	-0.005784	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	13.3	0.004963	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VL	NT	28.5	0.011373	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VN	NT	-3.4	-0.001357	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VH	NT	19.3	0.007702	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VL	NT	-10.8	-0.004165	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VN	NT	-0.4	-0.000154	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VH	NT	-24.7	-0.009526	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VL	NT	35	0.013060	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VN	NT	-9.9	-0.003694	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VH	NT	-8	-0.002985	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	30.5	0.012171	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	3.6	0.001437	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	19.7	0.007861	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-15.5	-0.006185	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-0.4	-0.000160	±2.5	PASS

Band41	20MHz	QPSK	39750	100RB#0	NV	20	-8	-0.003192	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-19.7	-0.007861	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	1	0.000399	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	3.2	0.001277	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-15.9	-0.006132	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	3	0.001157	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-13.7	-0.005283	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-13.2	-0.005091	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-4	-0.001543	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-8.7	-0.003355	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	2.5	0.000964	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	0.5	0.000193	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	30.8	0.011878	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	5.2	0.001940	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-22.6	-0.008433	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	-11	-0.004104	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-27.8	-0.010373	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-11.7	-0.004366	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	-30.6	-0.011418	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-33.9	-0.012649	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	2.3	0.000858	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	30	0.011194	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	6.5	0.002594	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	7.6	0.003033	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	2.9	0.001157	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-22.6	-0.009018	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	14.5	0.005786	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	30	0.011971	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	-20.5	-0.008180	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	16	0.006385	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	24.5	0.009777	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-25.6	-0.009873	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-9.5	-0.003664	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	10.7	0.004126	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	7.9	0.003047	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	20.1	0.007752	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	12.1	0.004666	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	-7	-0.002700	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-33.5	-0.012919	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	12.1	0.004666	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	26	0.009701	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	-12	-0.004478	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-10	11.7	0.004366	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	24.1	0.008993	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-19.1	-0.007127	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	-22.8	-0.008507	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	-28	-0.010448	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	6.2	0.002313	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	-3.1	-0.001157	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	-30	-33.6	0.012171	±2.5	PASS

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Band41	20MHz	64QAM	39750	100RB#0	NV	-20	30.7	0.001437	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	-10	11.8	0.007861	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	0	27.6	-0.006185	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	10	-14.4	-0.000160	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	20	28.8	-0.003192	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	30	-31.5	-0.007861	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	40	11.8	0.000399	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	50	0.9	0.001277	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-30	-25.1	-0.006132	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-20	23.4	0.001157	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-10	-32.2	-0.005283	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	0	3	-0.005091	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	10	-15.6	-0.001543	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	20	-8.7	-0.003355	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	30	2.5	0.000964	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	40	0.5	0.000193	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	50	30.8	0.011878	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	-30	5.2	0.001940	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	-20	-22.6	-0.008433	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	-10	-11	-0.004104	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	0	-27.8	-0.010373	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	10	-11.7	-0.004366	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	20	-30.6	-0.011418	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	30	-33.9	-0.012649	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	40	2.3	0.000858	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	50	30	0.011194	±2.5	PASS

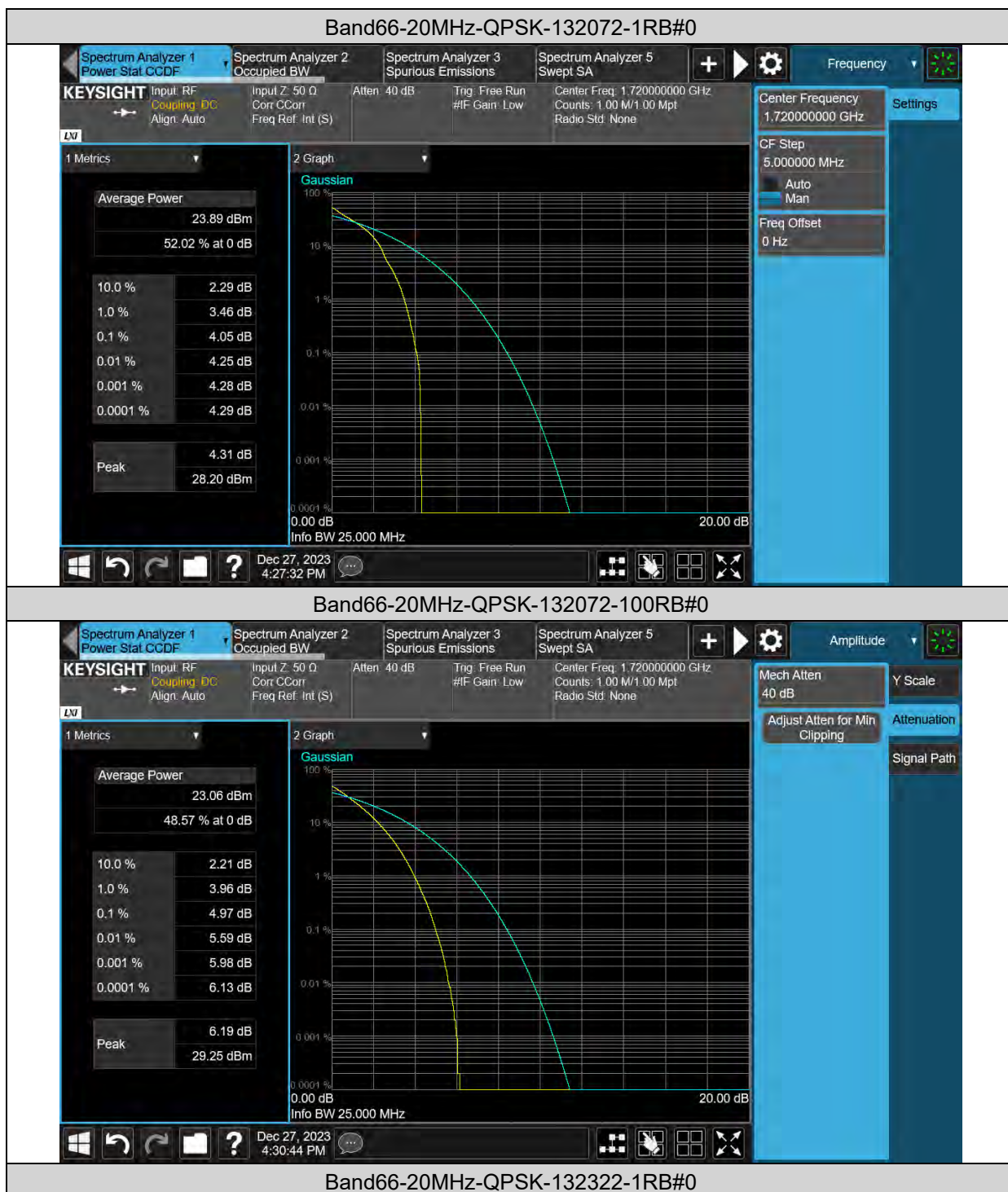
LTE BAND66 (INDCLUDING LTE BAND4)

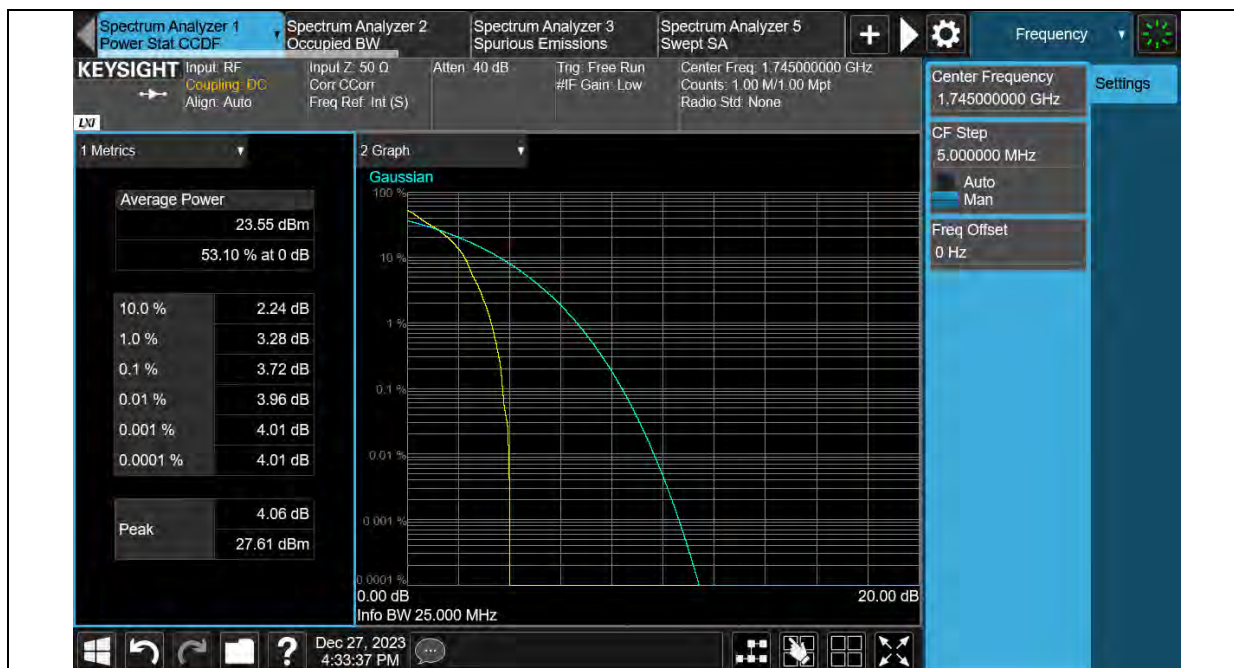
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

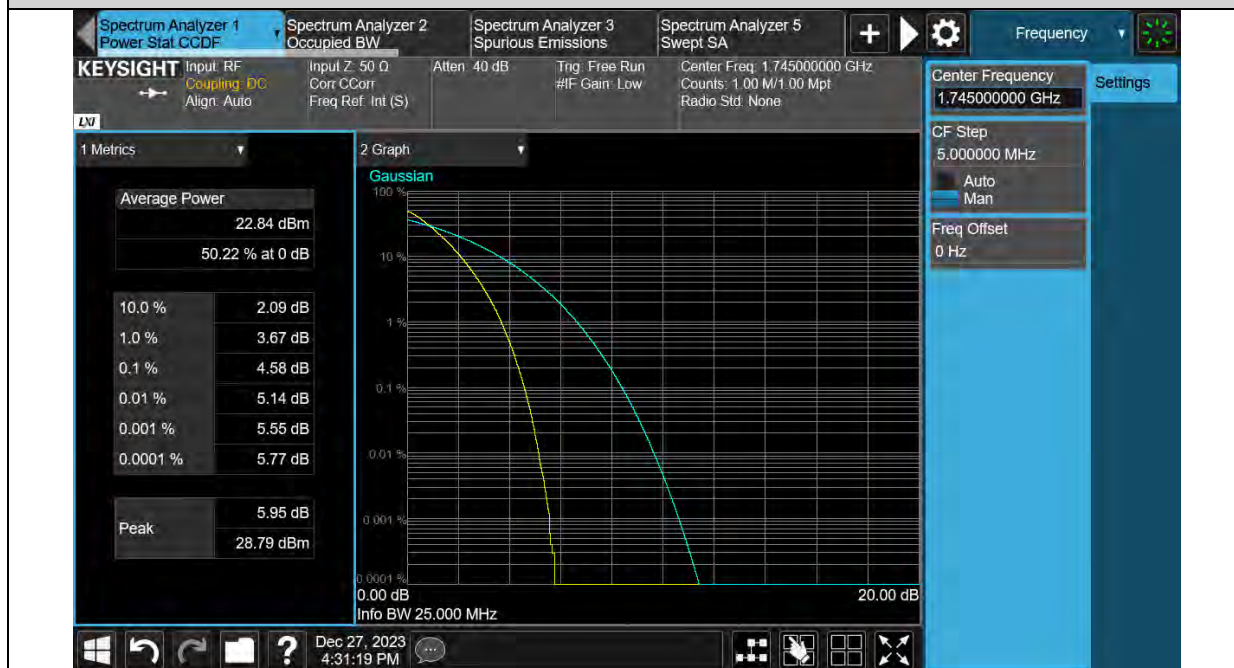
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	4.05	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	4.97	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	3.72	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.58	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	4.50	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.79	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	4.78	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.59	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	4.36	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.25	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	5.36	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.46	13	PASS
Band66	20MHz	64QAM	132072	1RB#0	5.19	13	PASS
Band66	20MHz	64QAM	132072	100RB#0	5.90	13	PASS
Band66	20MHz	64QAM	132322	1RB#0	5.24	13	PASS
Band66	20MHz	64QAM	132322	100RB#0	5.58	13	PASS
Band66	20MHz	64QAM	132572	1RB#0	5.76	13	PASS
Band66	20MHz	64QAM	132572	100RB#0	5.82	13	PASS

Test Graphs

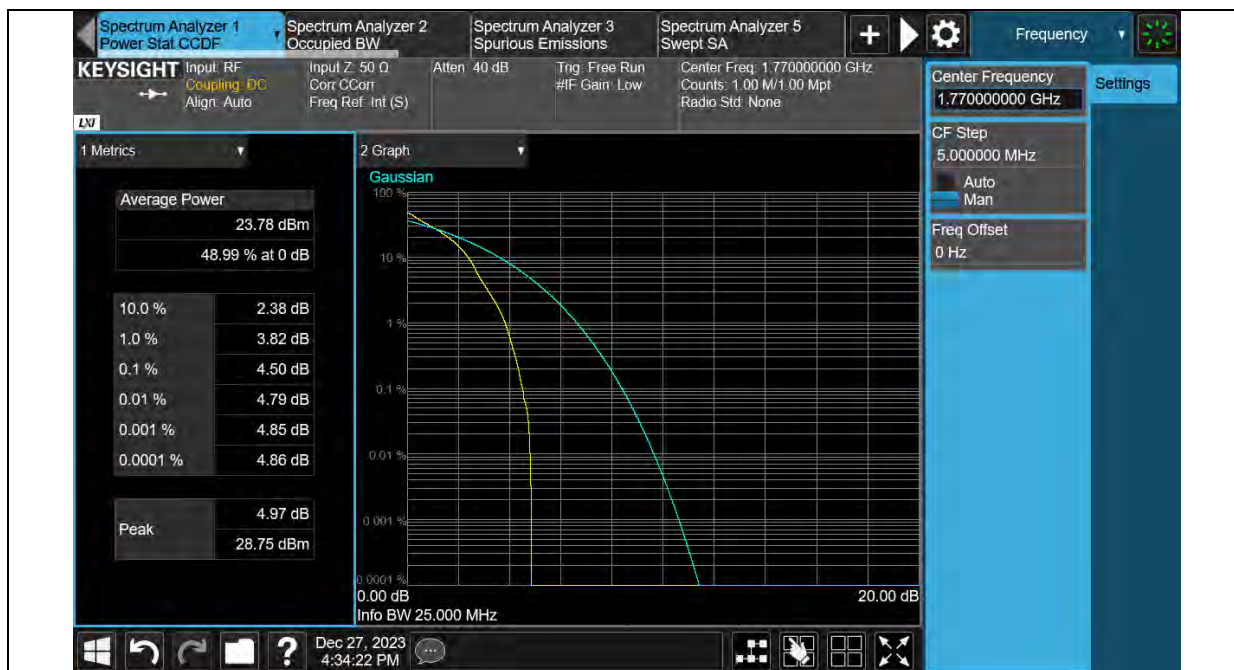




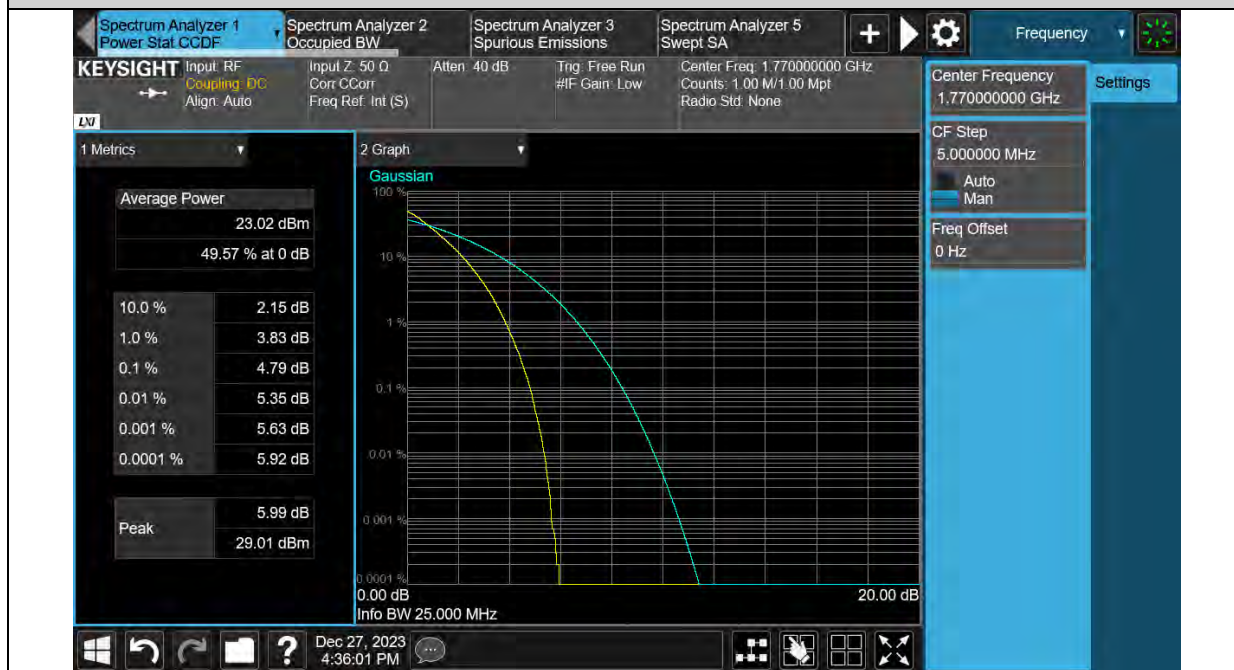
Band66-20MHz-QPSK-132322-100RB#0



Band66-20MHz-QPSK-132572-1RB#0



Band66-20MHz-QPSK-132572-100RB#0



Band66-20MHz-16QAM-132072-1RB#0