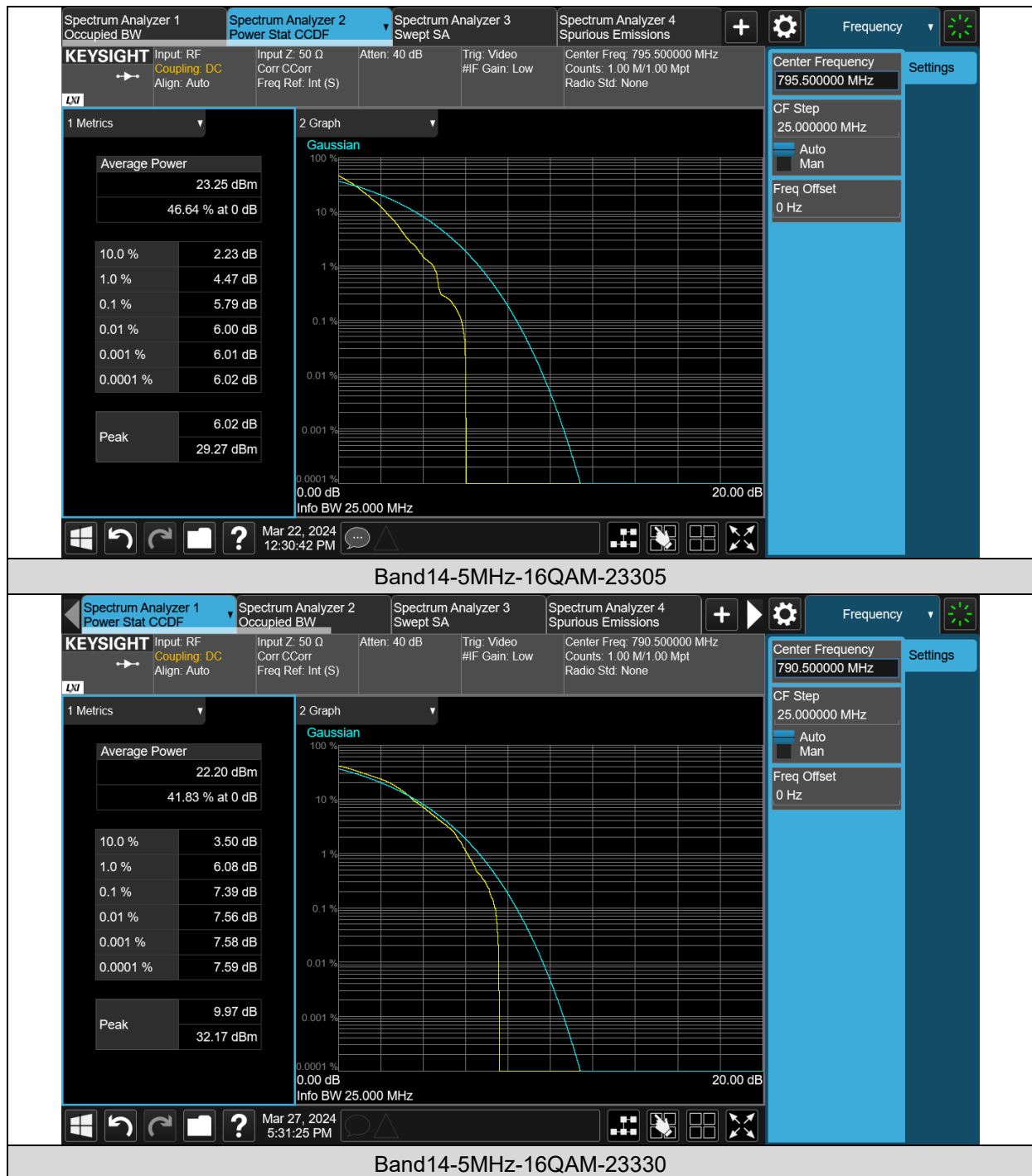




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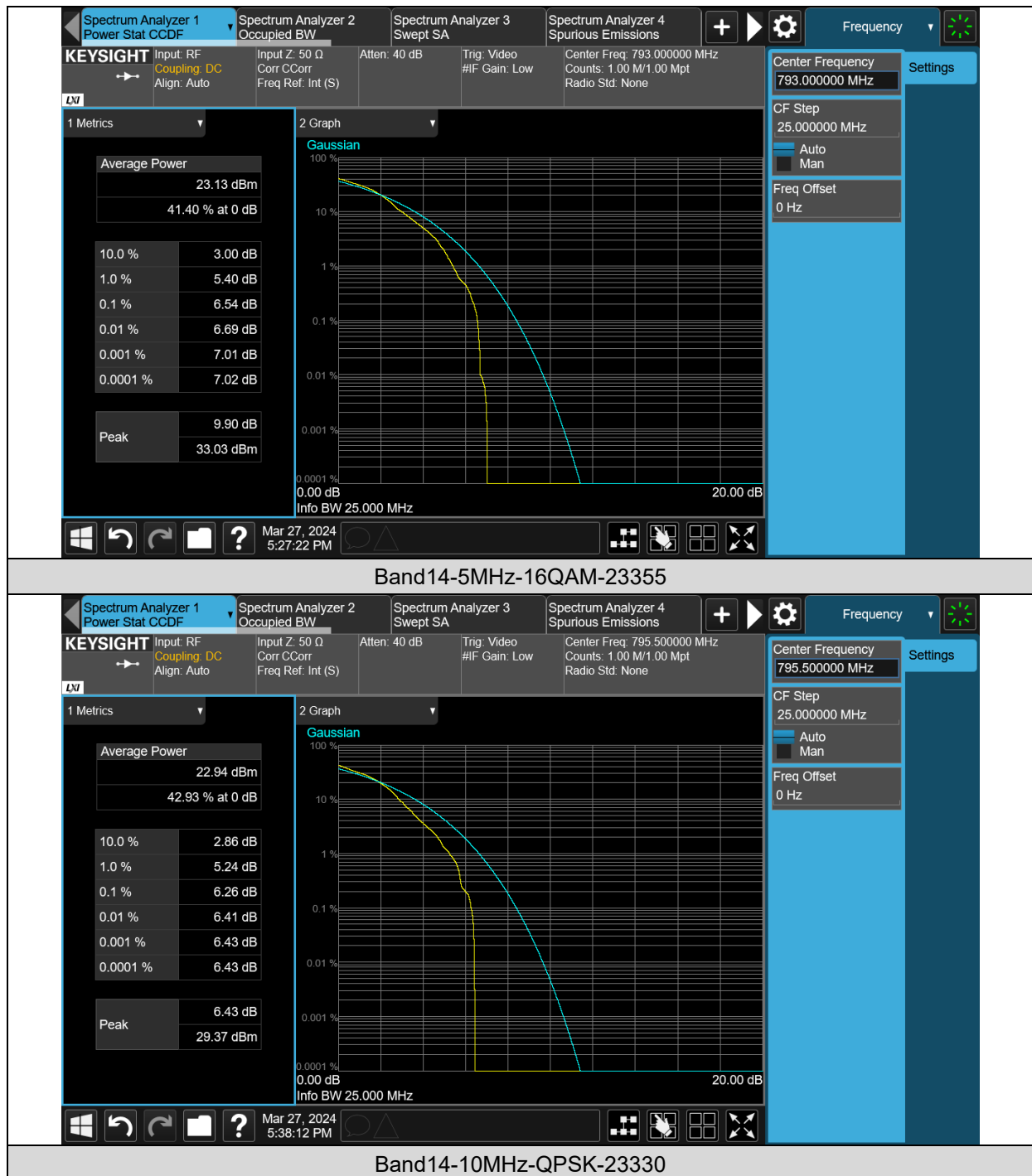
Test Report No.: W7L-240204W001RF05





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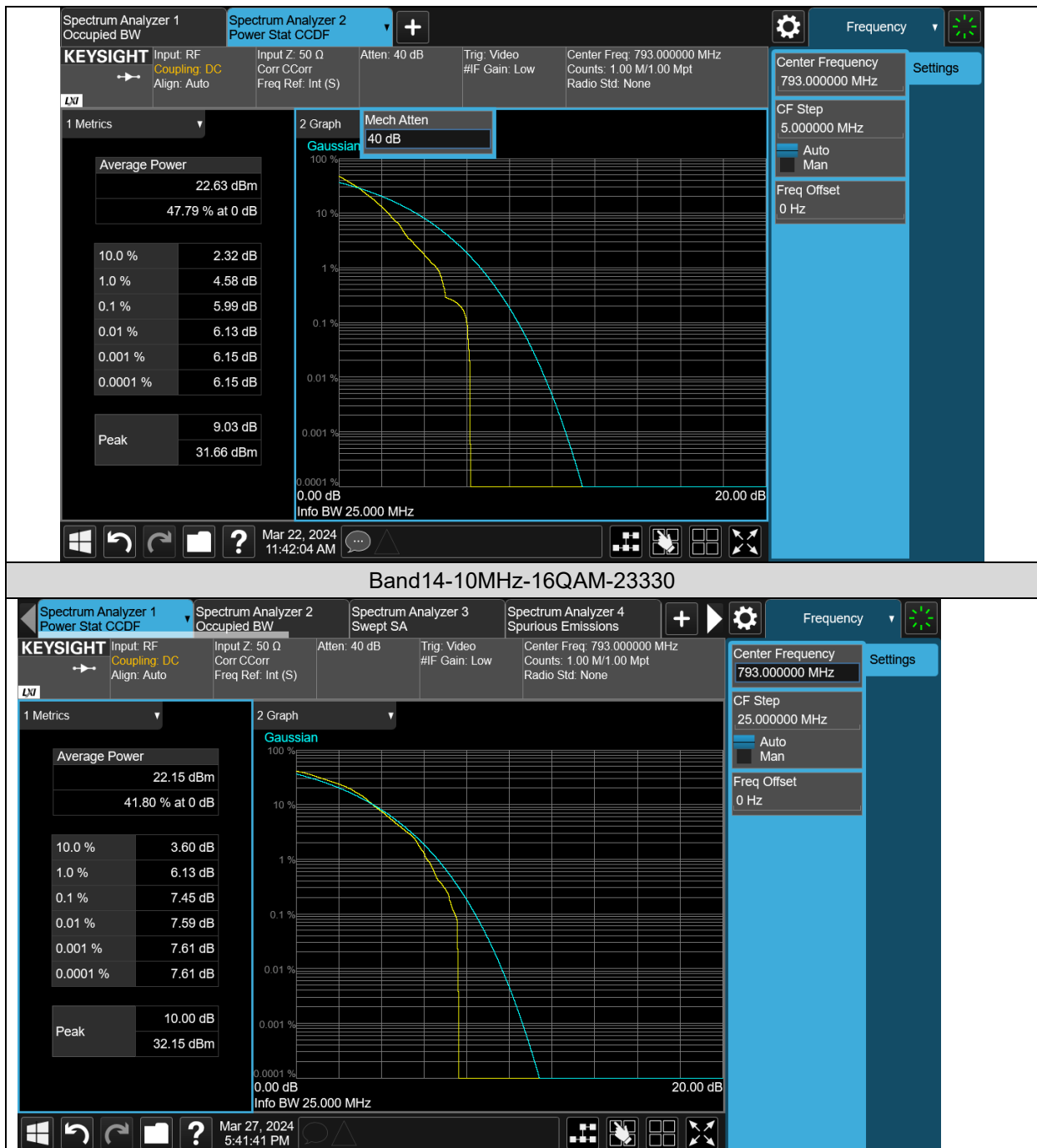
Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	6RB#0	1.0751	1.248	PASS
Band14	5MHz	QPSK	23330	6RB#0	1.0746	1.269	PASS
Band14	5MHz	QPSK	23355	6RB#0	1.0708	1.234	PASS
Band14	5MHz	16QAM	23305	6RB#0	1.0775	1.308	PASS
Band14	5MHz	16QAM	23330	6RB#0	1.0745	1.268	PASS
Band14	5MHz	16QAM	23355	6RB#0	1.0743	1.269	PASS
Band14	10MHz	QPSK	23330	6RB#0	1.0695	1.252	PASS
Band14	10MHz	16QAM	23330	6RB#0	1.0725	1.287	PASS

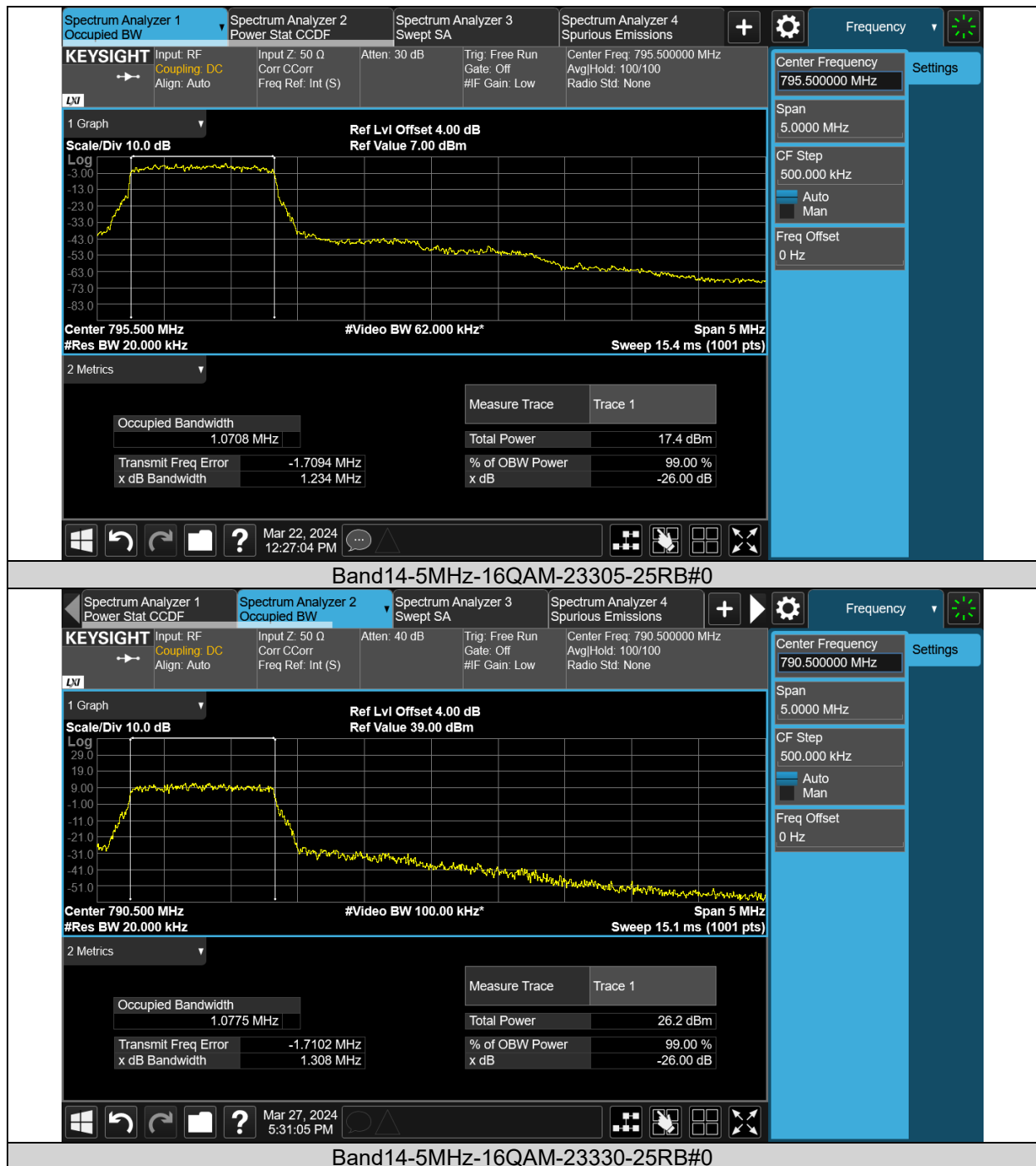
Test Graphs





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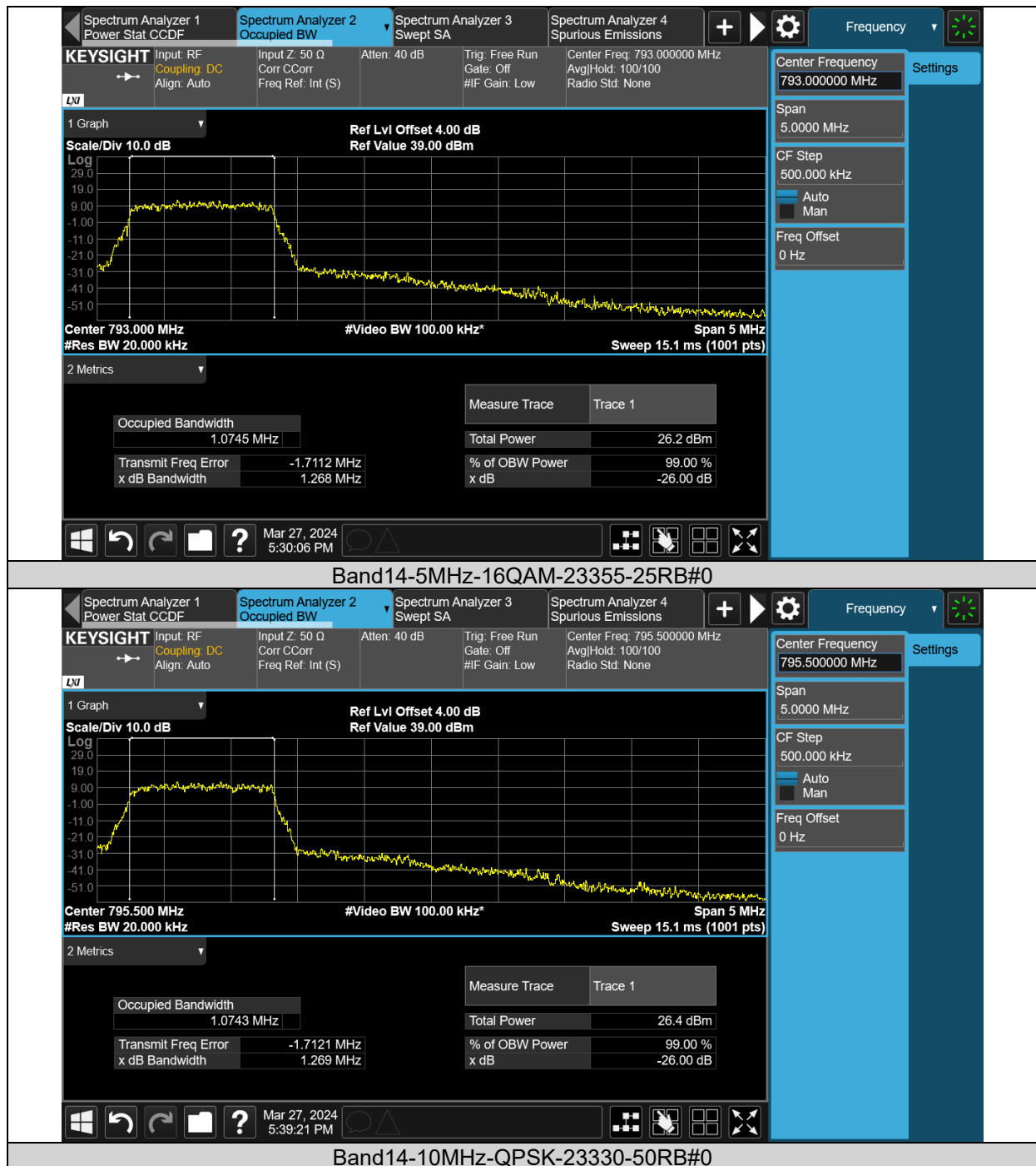
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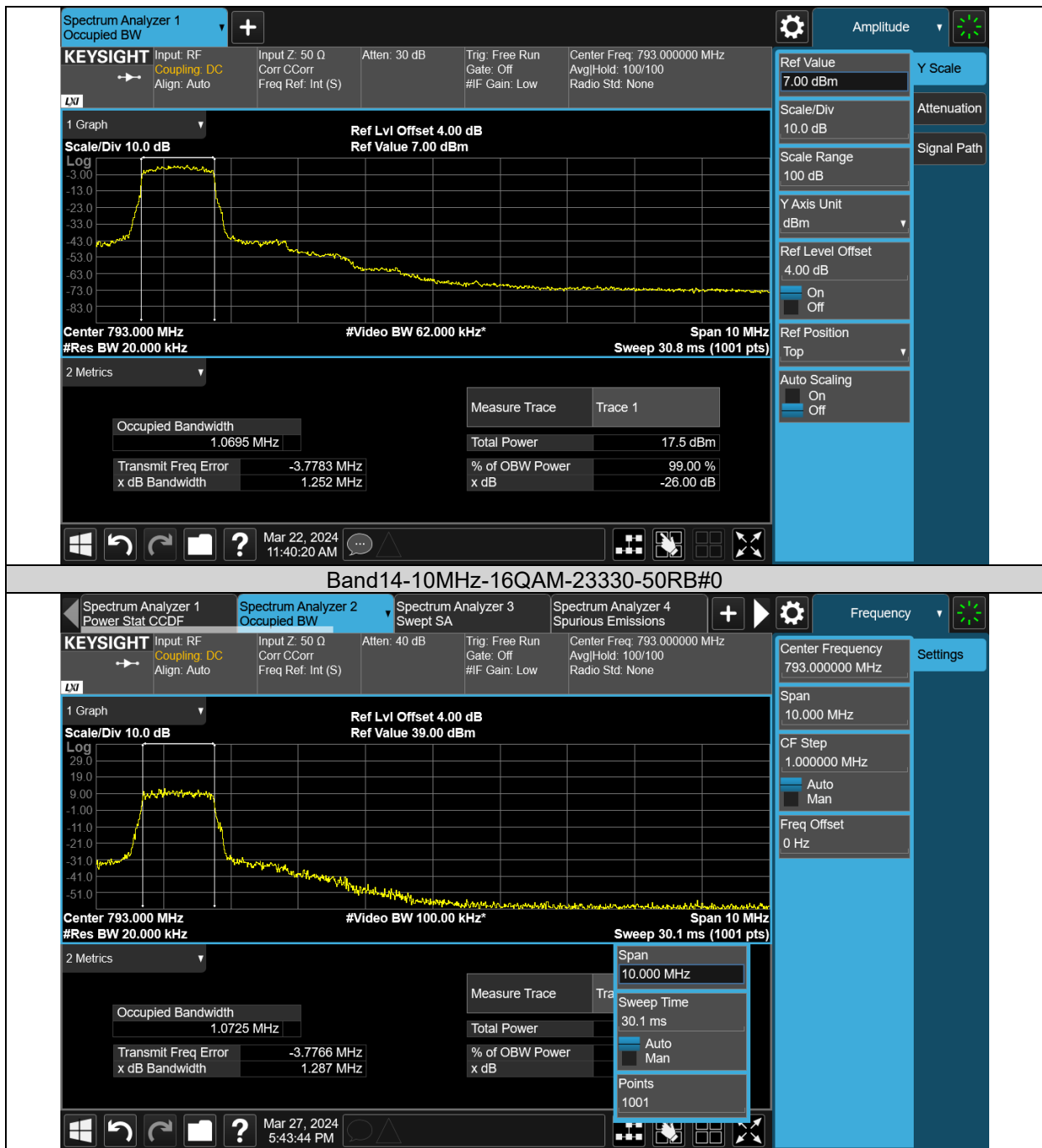
Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05

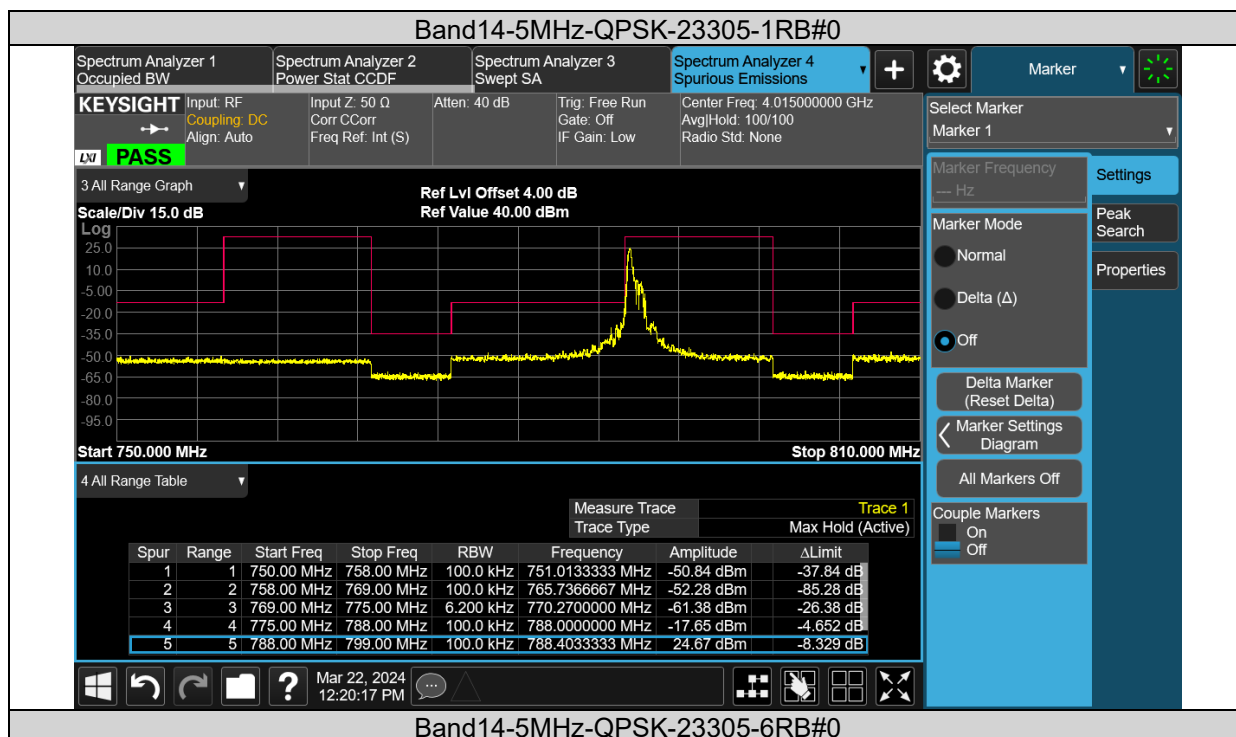


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	See Graph	PASS
Band14	5MHz	QPSK	23305	6RB#0	See Graph	PASS
Band14	5MHz	QPSK	23355	1RB#5	See Graph	PASS
Band14	5MHz	QPSK	23355	6RB#0	See Graph	PASS
Band14	5MHz	16QAM	23305	1RB#0	See Graph	PASS
Band14	5MHz	16QAM	23305	6RB#0	See Graph	PASS
Band14	5MHz	16QAM	23355	1RB#5	See Graph	PASS
Band14	5MHz	16QAM	23355	6RB#0	See Graph	PASS
Band13	10MHz	QPSK	23330	1RB#0	See Graph	PASS
Band13	10MHz	QPSK	23330	1RB#5	See Graph	PASS
Band13	10MHz	QPSK	23330	6RB#0	See Graph	PASS
Band13	10MHz	16QAM	23330	1RB#0	See Graph	PASS
Band13	10MHz	16QAM	23330	1RB#5	See Graph	PASS
Band13	10MHz	16QAM	23330	6RB#0	See Graph	PASS

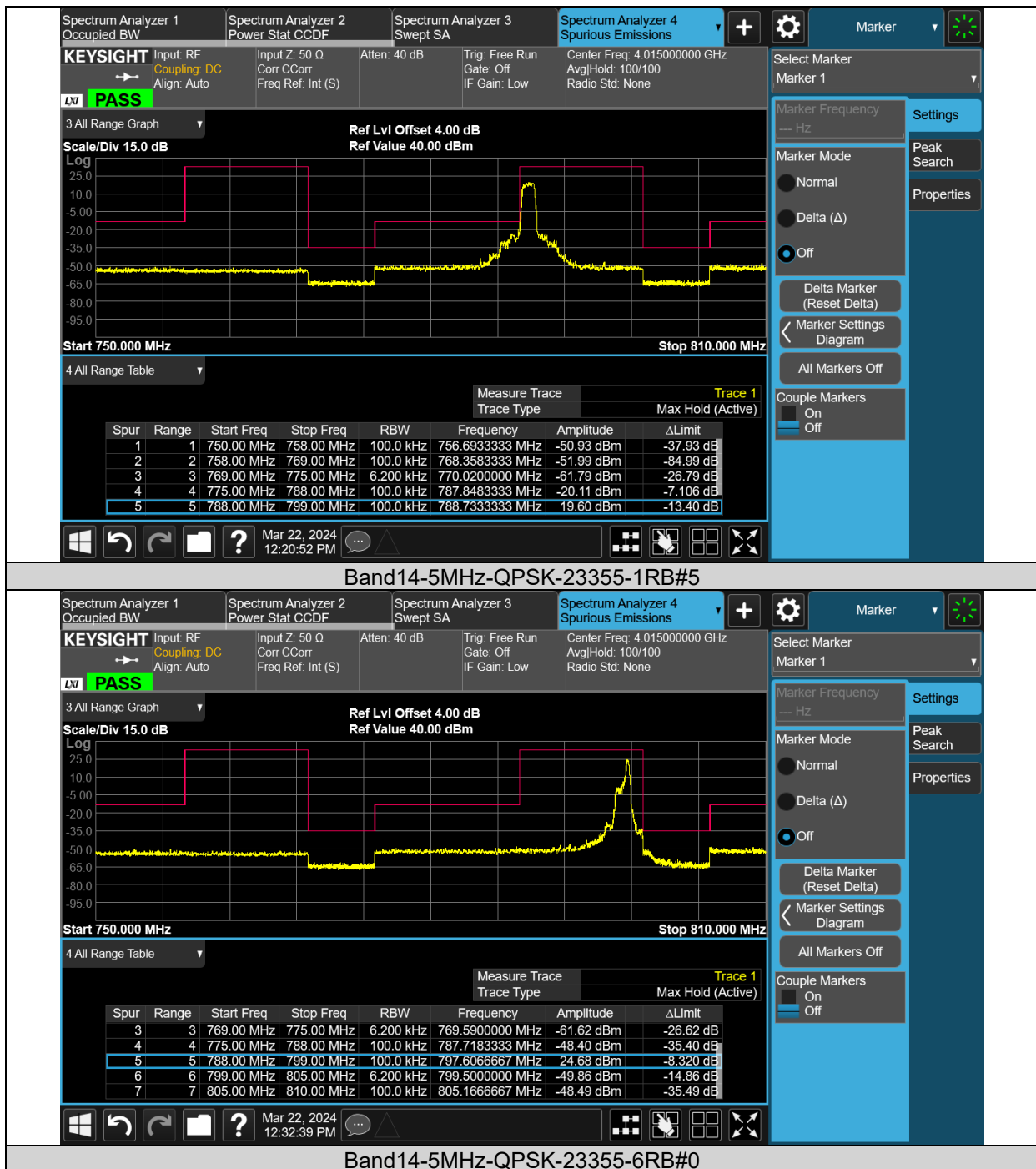
Test Graphs





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Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05





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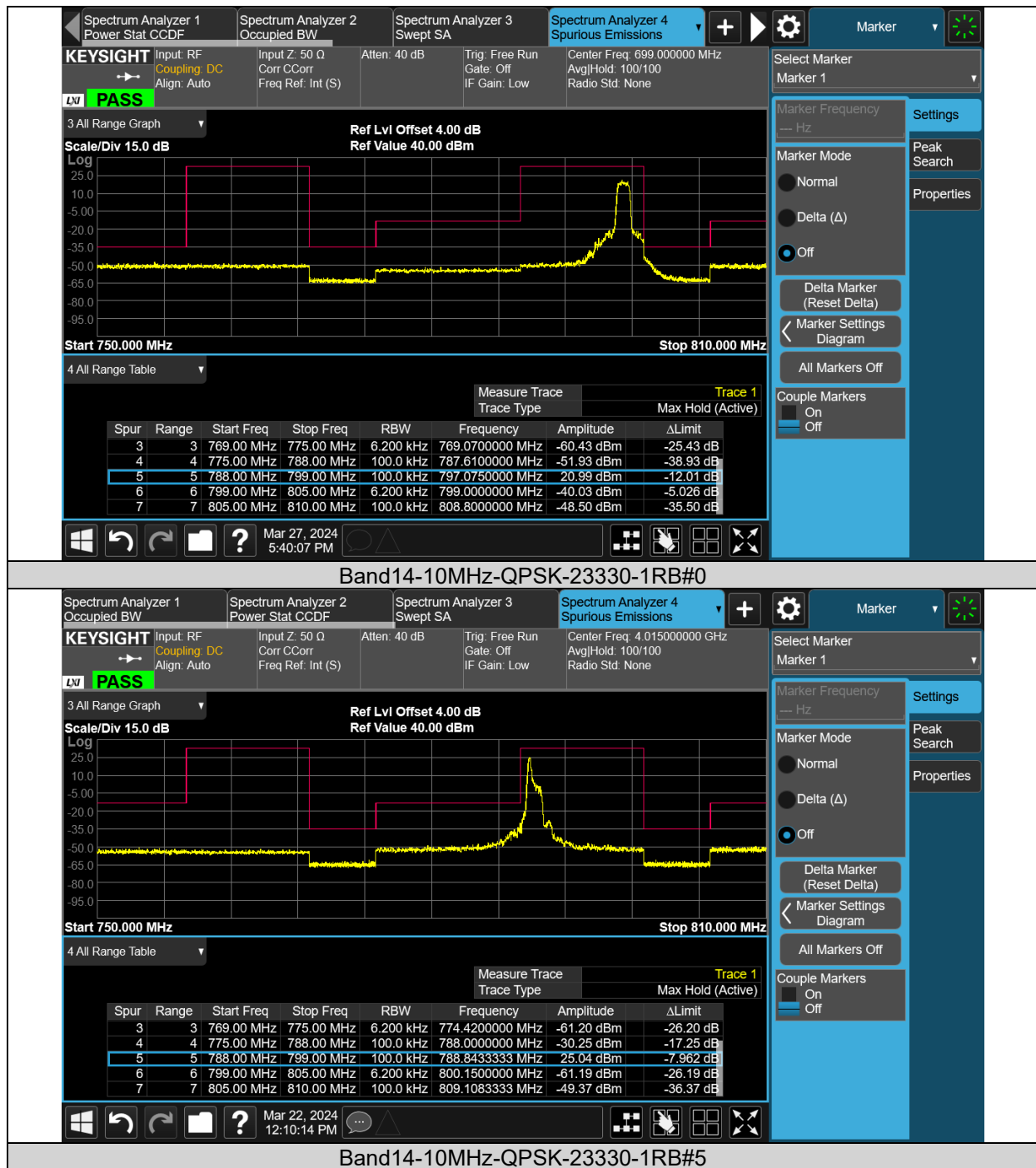
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Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05





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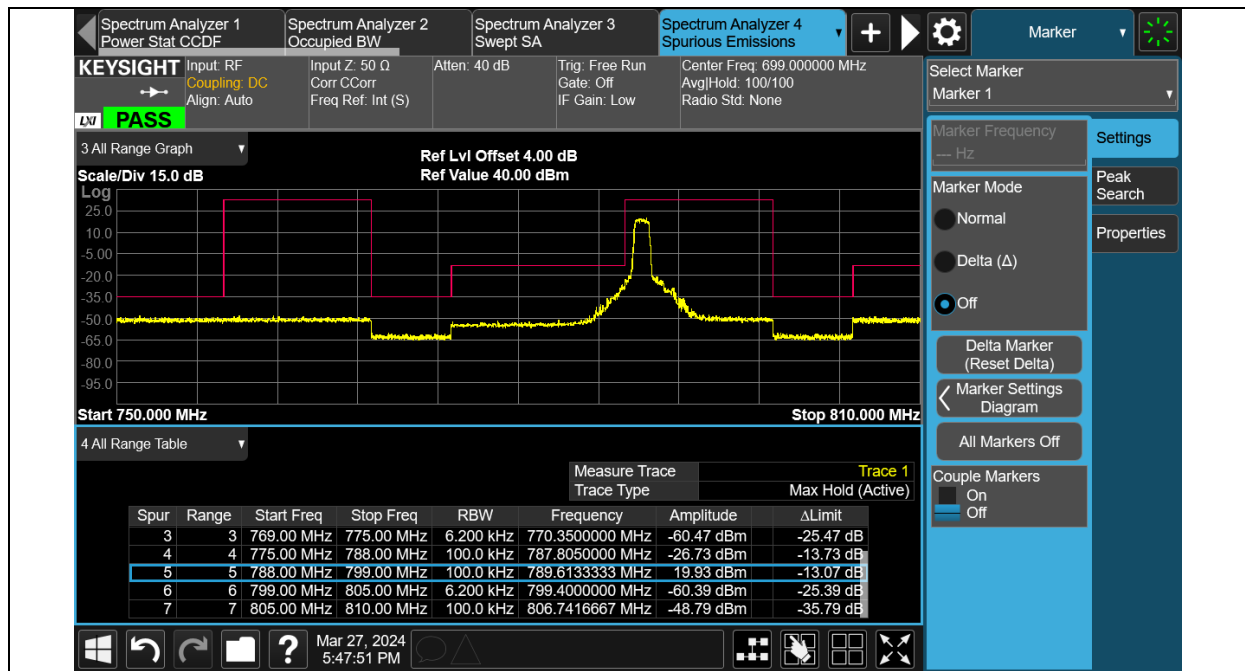
Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05



CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configurat ion	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	Range:30~8000M	See Graph	PASS
Band14	5MHz	QPSK	23330	1RB#0	Range:30~8000M	See Graph	PASS
Band14	5MHz	QPSK	23355	1RB#0	Range:30~8000M	See Graph	PASS
Band14	5MHz	16QAM	23305	1RB#0	Range:30~8000M	See Graph	PASS
Band14	5MHz	16QAM	23330	1RB#0	Range:30~8000M	See Graph	PASS
Band14	5MHz	16QAM	23355	1RB#0	Range:30~8000M	See Graph	PASS
Band13	10MHz	QPSK	23330	1RB#0	Range:30~8000M	See Graph	PASS
Band13	10MHz	16QAM	23330	1RB#0	Range:30~8000M	See Graph	PASS

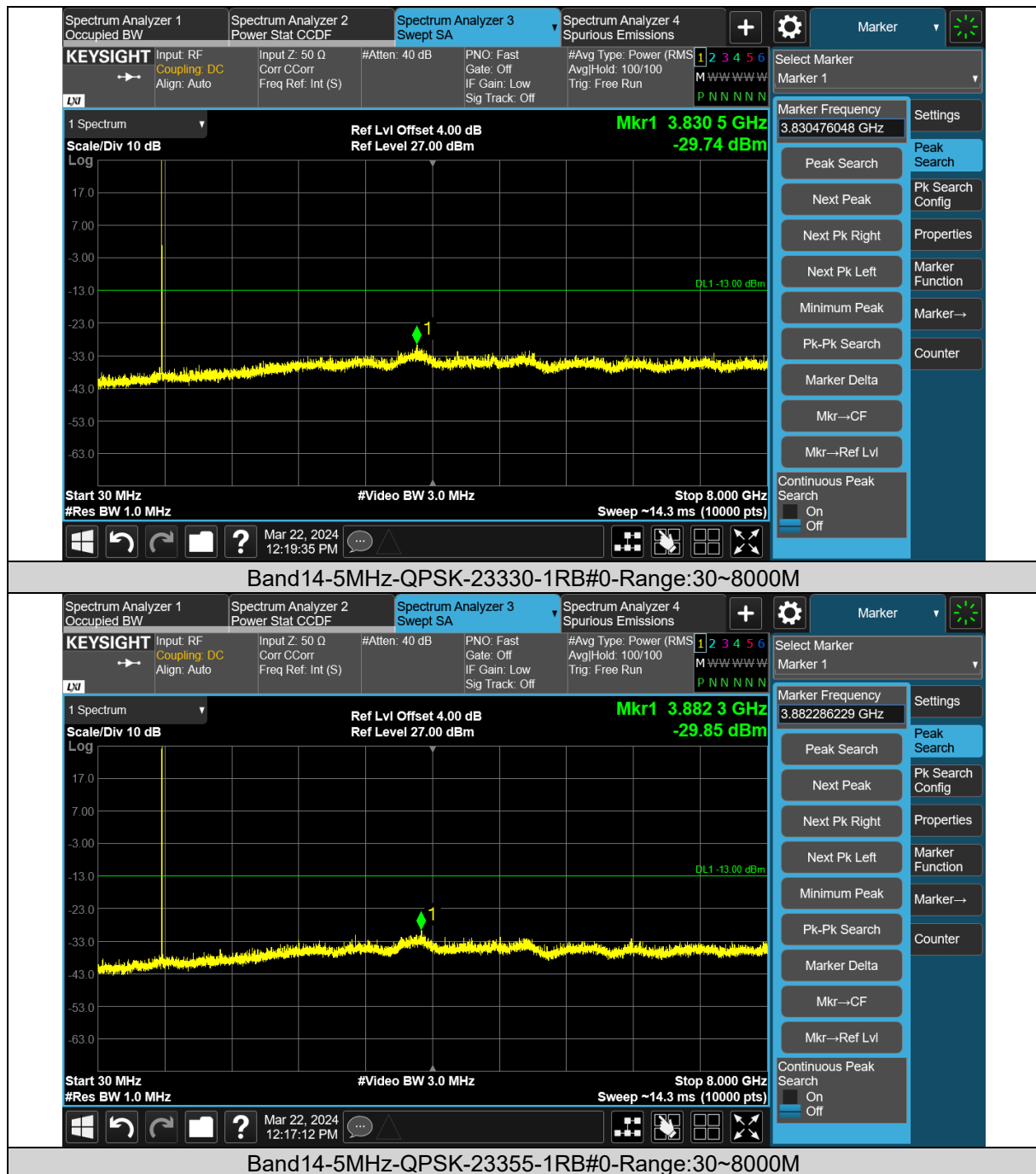
Test Graphs

Band14-5MHz-QPSK-23305-1RB#0-Range:30~8000M



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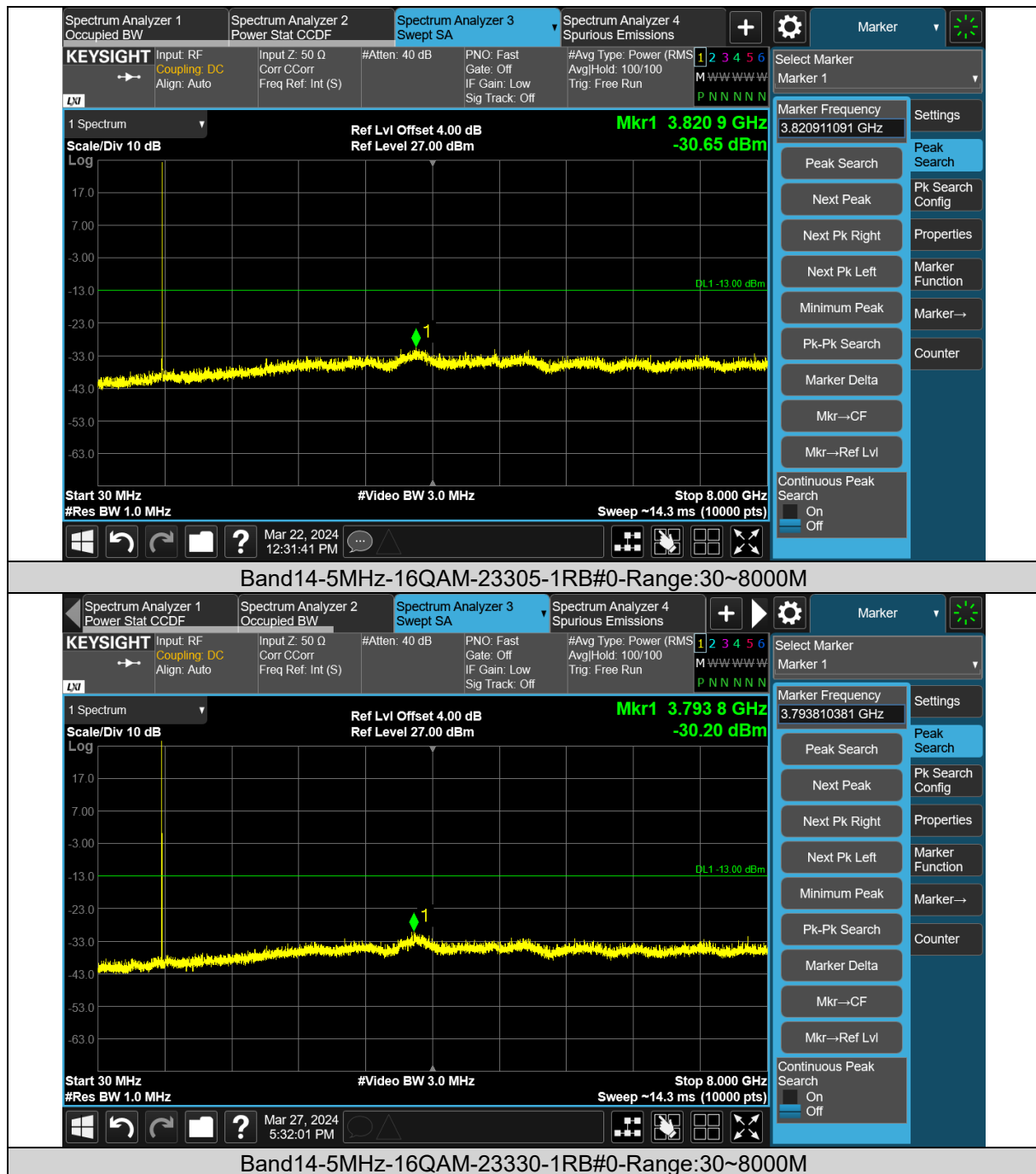
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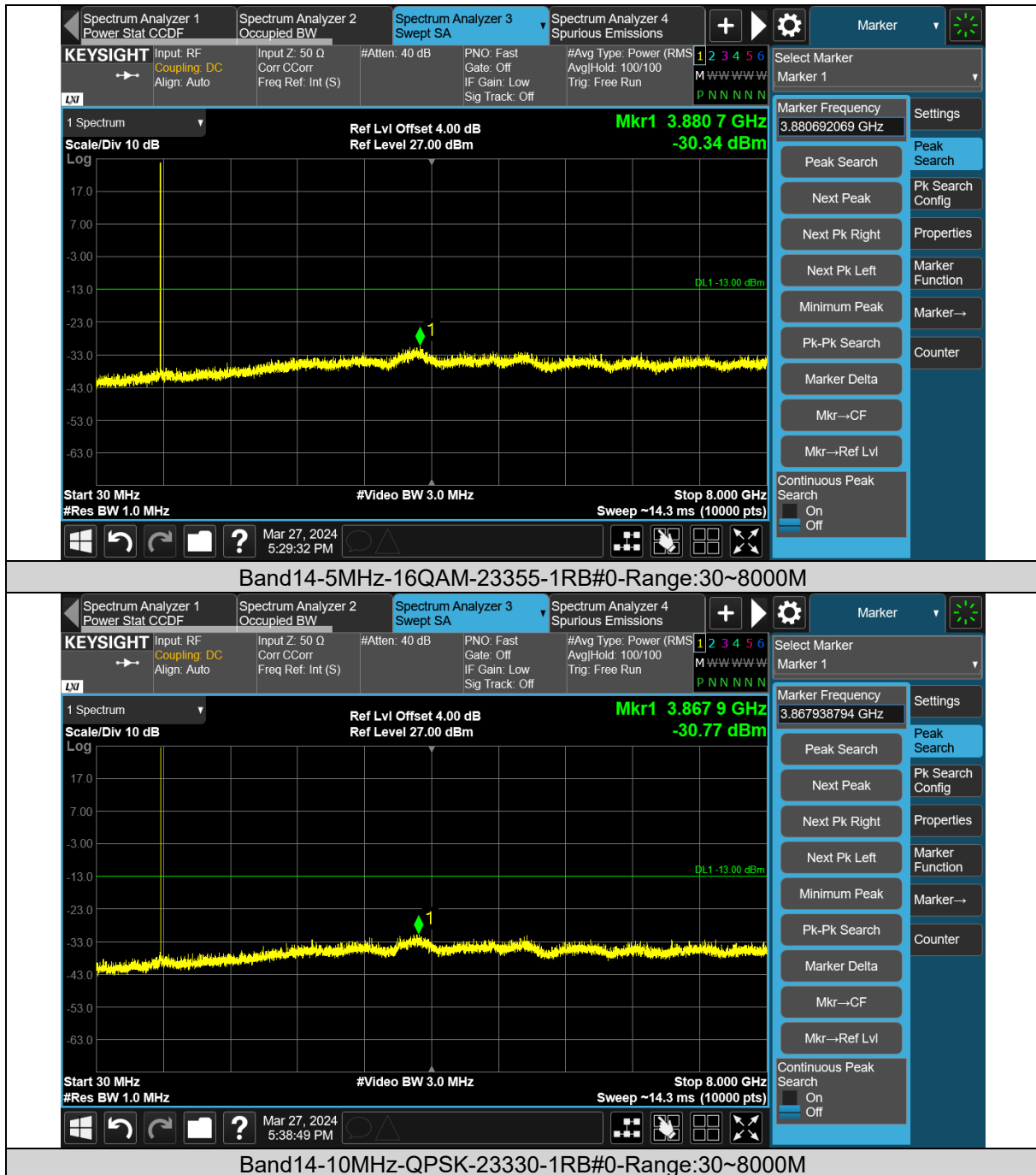
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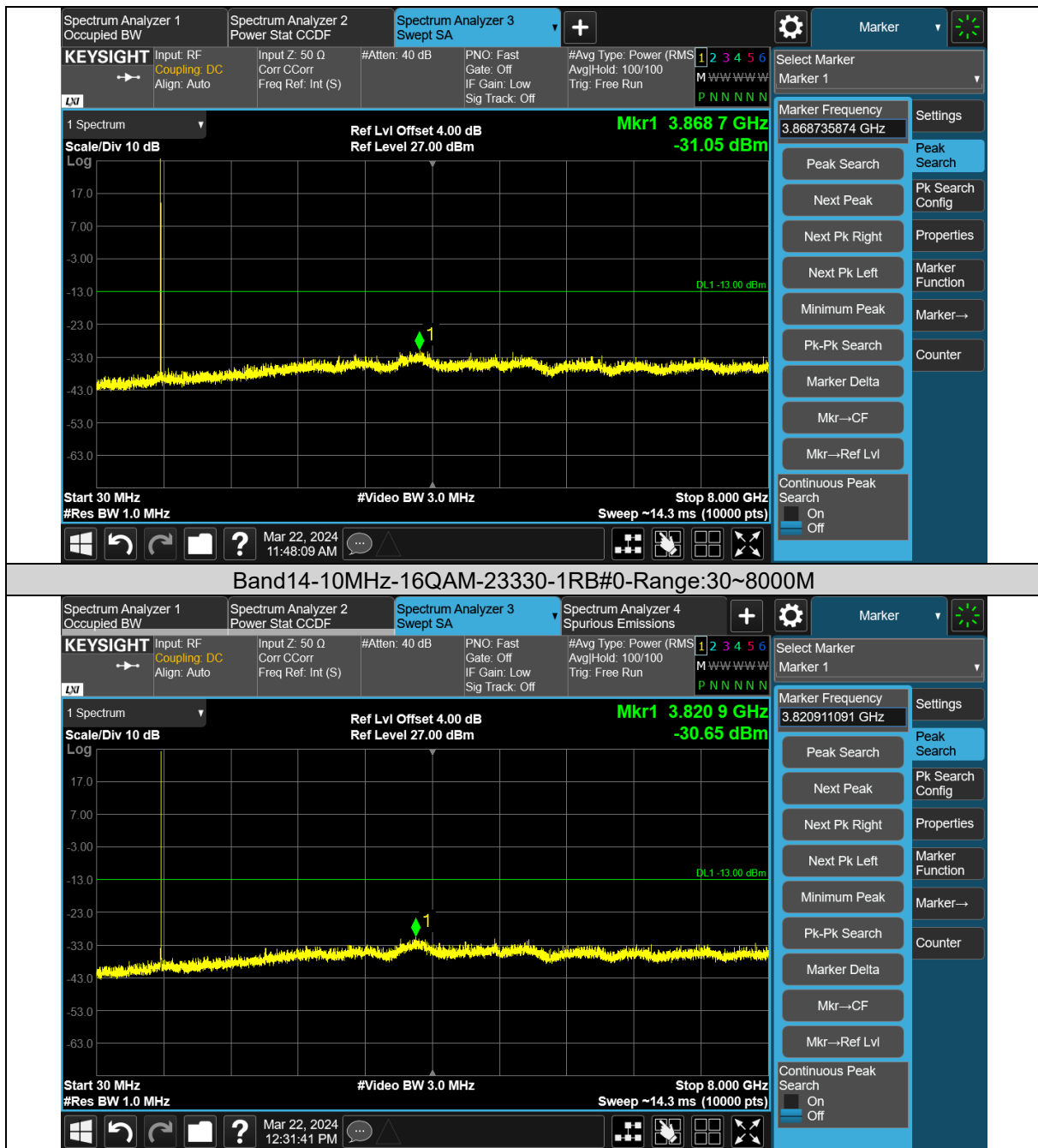
Test Report No.: W7L-240204W001RF05





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Test Report No.: W7L-240204W001RF05



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	6RB#0	VL	NT	-22.2	-0.028389	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	VN	NT	-21.9	-0.028005	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	VH	NT	14.7	0.018798	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	VL	NT	27	0.034527	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	VN	NT	-11.9	-0.015217	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	VH	NT	-24.5	-0.031330	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	6RB#0	NV	-30	2.5	0.003197	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	-20	-18.8	-0.024041	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	-10	-21.6	-0.027621	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	0	-23.4	-0.029923	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	10	-16.3	-0.020844	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	20	-3.5	-0.004476	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	30	-8.1	-0.010358	±2.5	PASS
Band14	10MHz	QPSK	23330	6RB#0	NV	40	-10.4	-0.013299	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	50	-15.1	-0.019309	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	-30	-13.7	-0.017519	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	-20	-17.6	-0.022506	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	-10	22.2	0.028389	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	0	6.7	0.008568	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	10	15.5	0.019821	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	20	23.6	0.030179	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	30	20.8	0.026598	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	40	-22.7	-0.029028	±2.5	PASS
Band14	10MHz	16QAM	23330	6RB#0	NV	50	5.3	0.006777	±2.5	PASS



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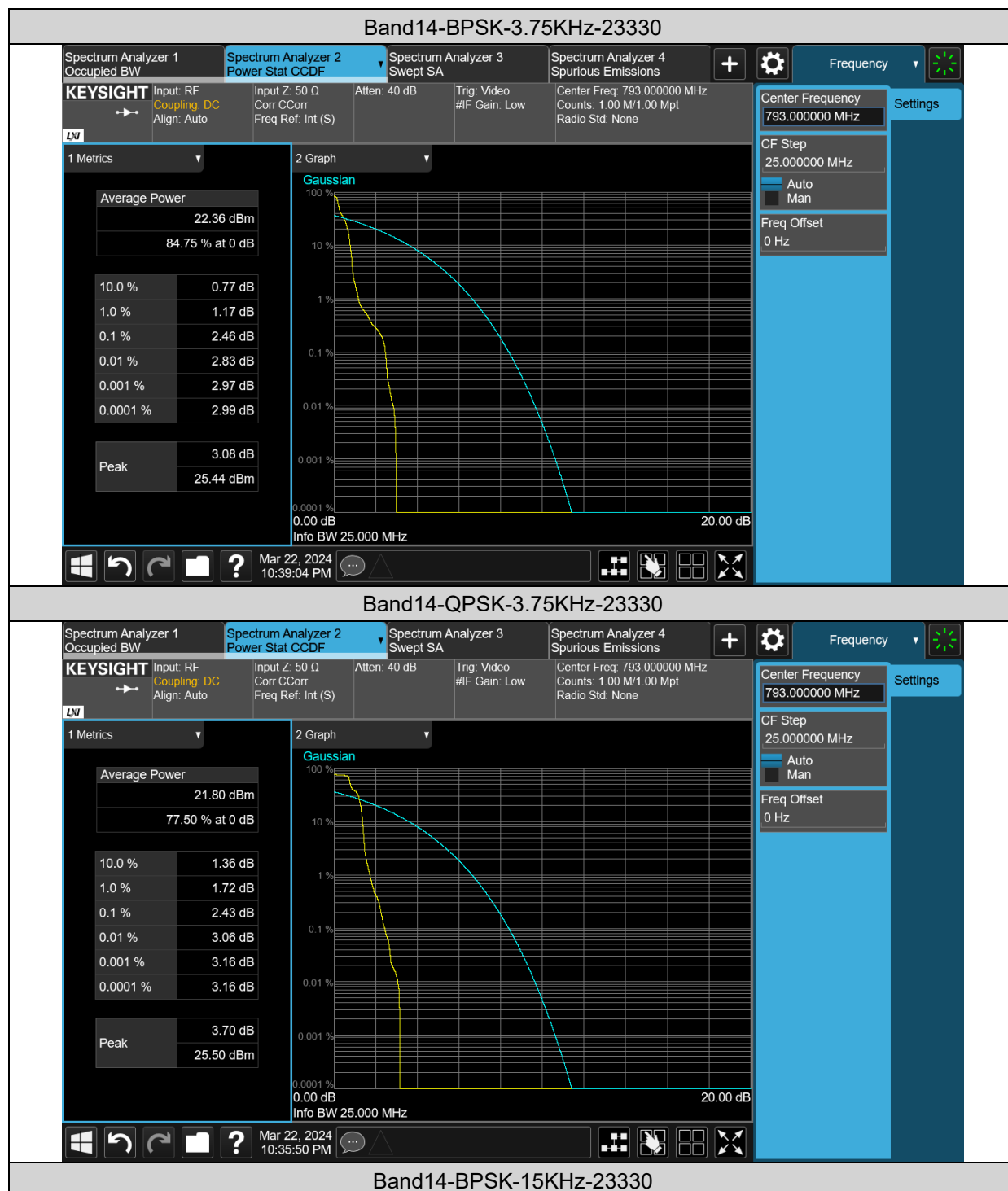
NB-IOT: LTE BAND14

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channe	Result(dB)	Limit(dB)	Verdict
Band14	BPSK	3.75	23330	2.46	13	PASS
	QPSK	3.75	23330	2.43	13	PASS
	BPSK	15	23330	2.05	13	PASS
	QPSK	15	23330	2.06	13	PASS

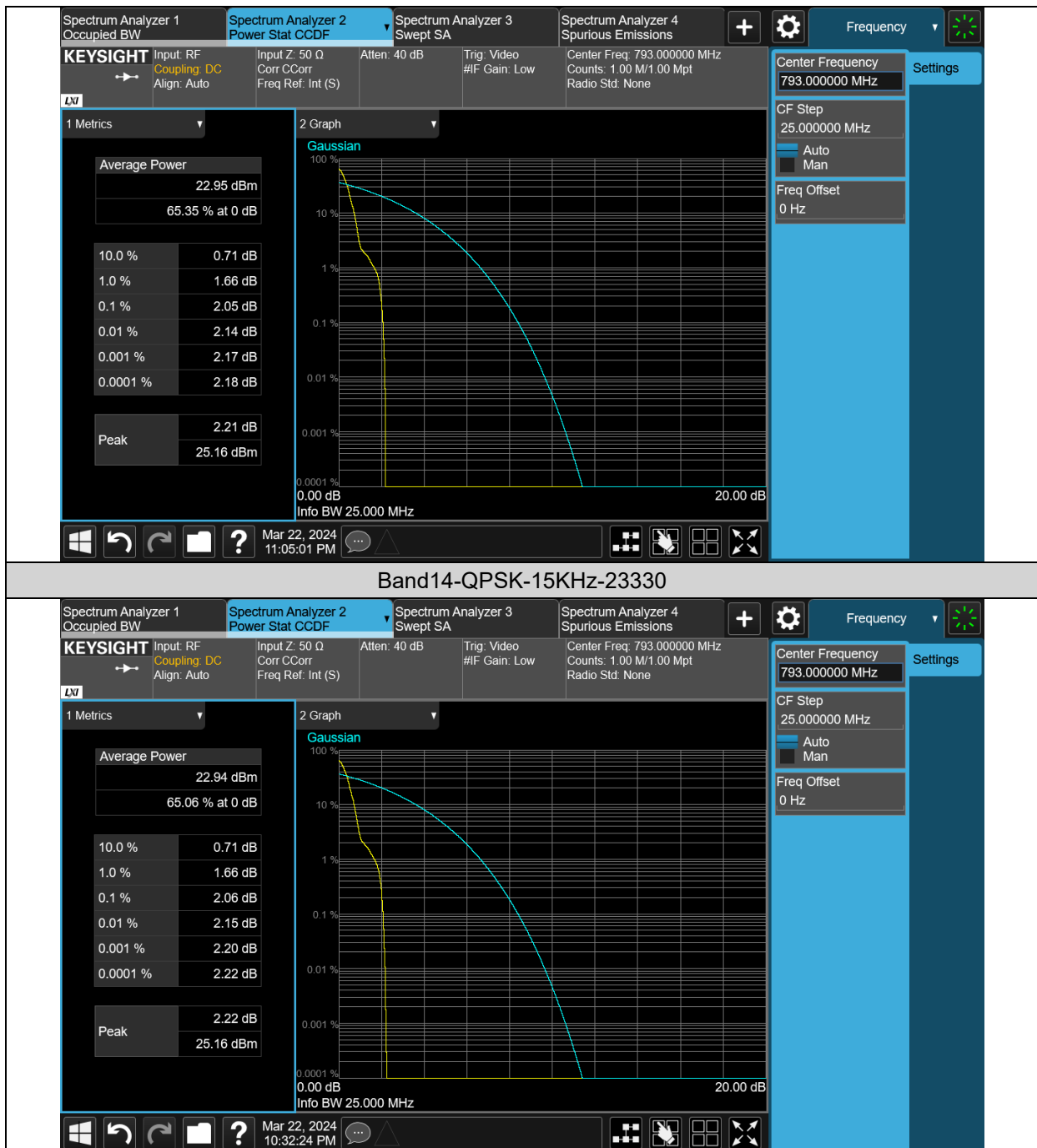
Test Graphs





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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

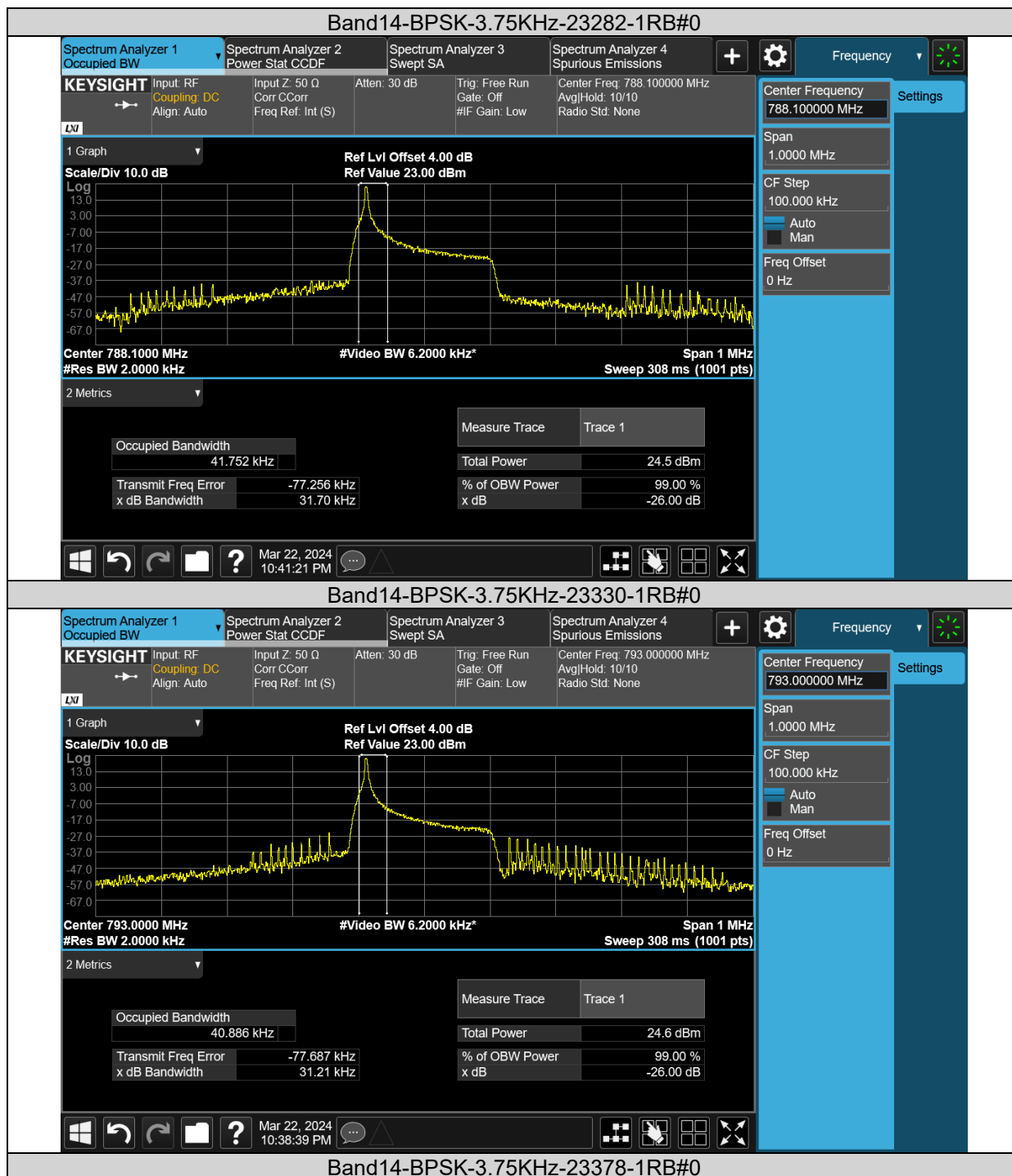
Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
Band14	BPSK	3.75	23282	1RB#0	41.752	31.70	PASS
Band14	BPSK	3.75	23330	1RB#0	40.886	31.21	PASS
Band14	BPSK	3.75	23378	1RB#0	44.330	32.02	PASS
Band14	QPSK	3.75	23282	1RB#0	44.723	31.54	PASS
Band14	QPSK	3.75	23330	1RB#0	46.581	31.34	PASS
Band14	QPSK	3.75	23378	1RB#0	48.865	34.89	PASS
Band14	BPSK	15	23282	1RB#0	87.805	89.72	PASS
Band14	BPSK	15	23330	1RB#0	97.220	71.24	PASS
Band14	BPSK	15	23378	1RB#0	122.20	98.96	PASS
Band14	QPSK	15	23282	1RB#0	96.390	89.54	PASS
Band14	QPSK	15	23330	1RB#0	128.22	143.7	PASS
Band14	QPSK	15	23378	1RB#0	125.55	103.1	PASS
Band14	QPSK	15	23282	12RB#0	189.46	210.5	PASS
Band14	QPSK	15	23330	12RB#0	128.22	143.7	PASS
Band14	QPSK	15	23378	12RB#0	185.79	211.7	PASS



Test Report No.: W7L-240204W001RF05

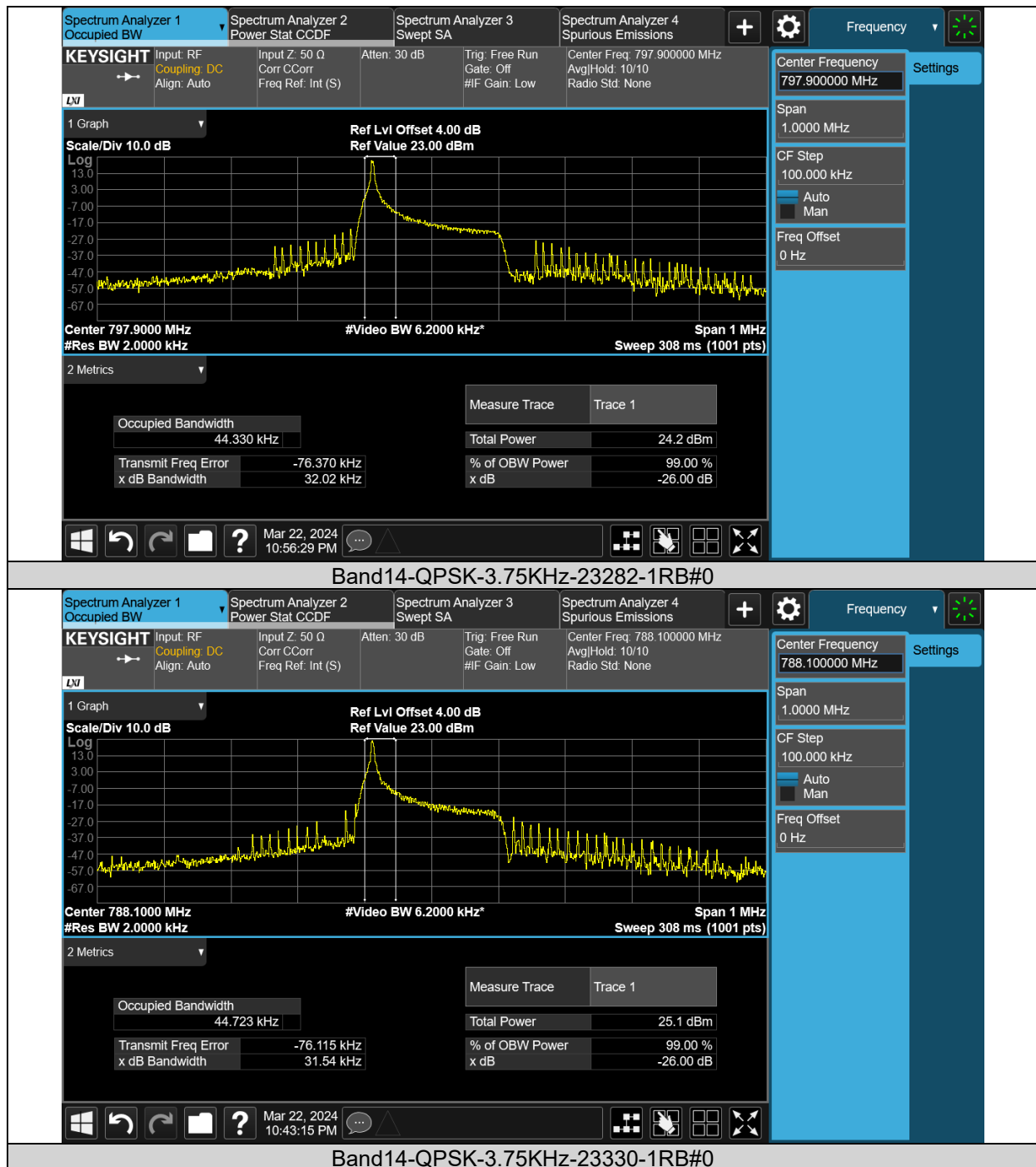
Test Graphs





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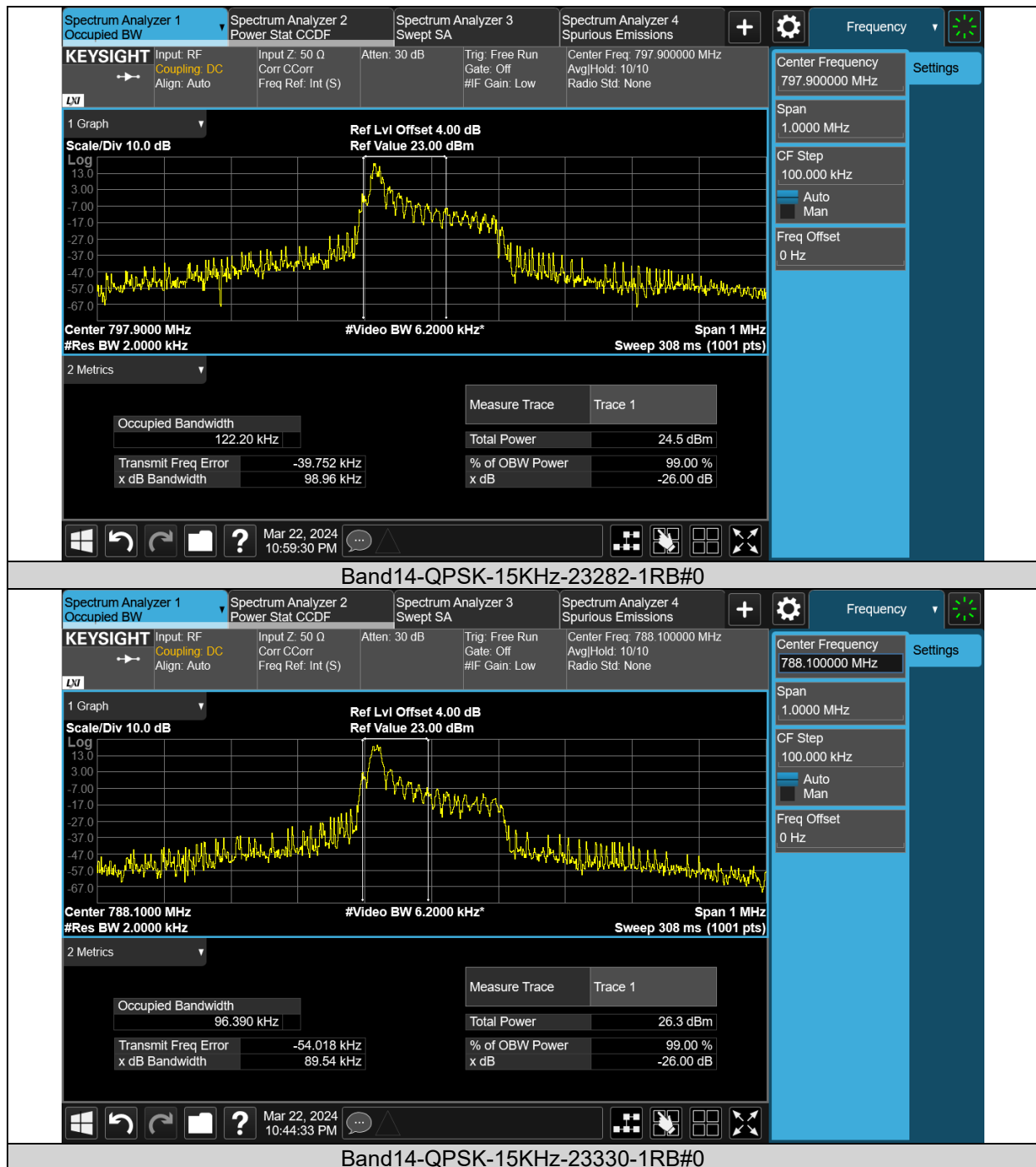
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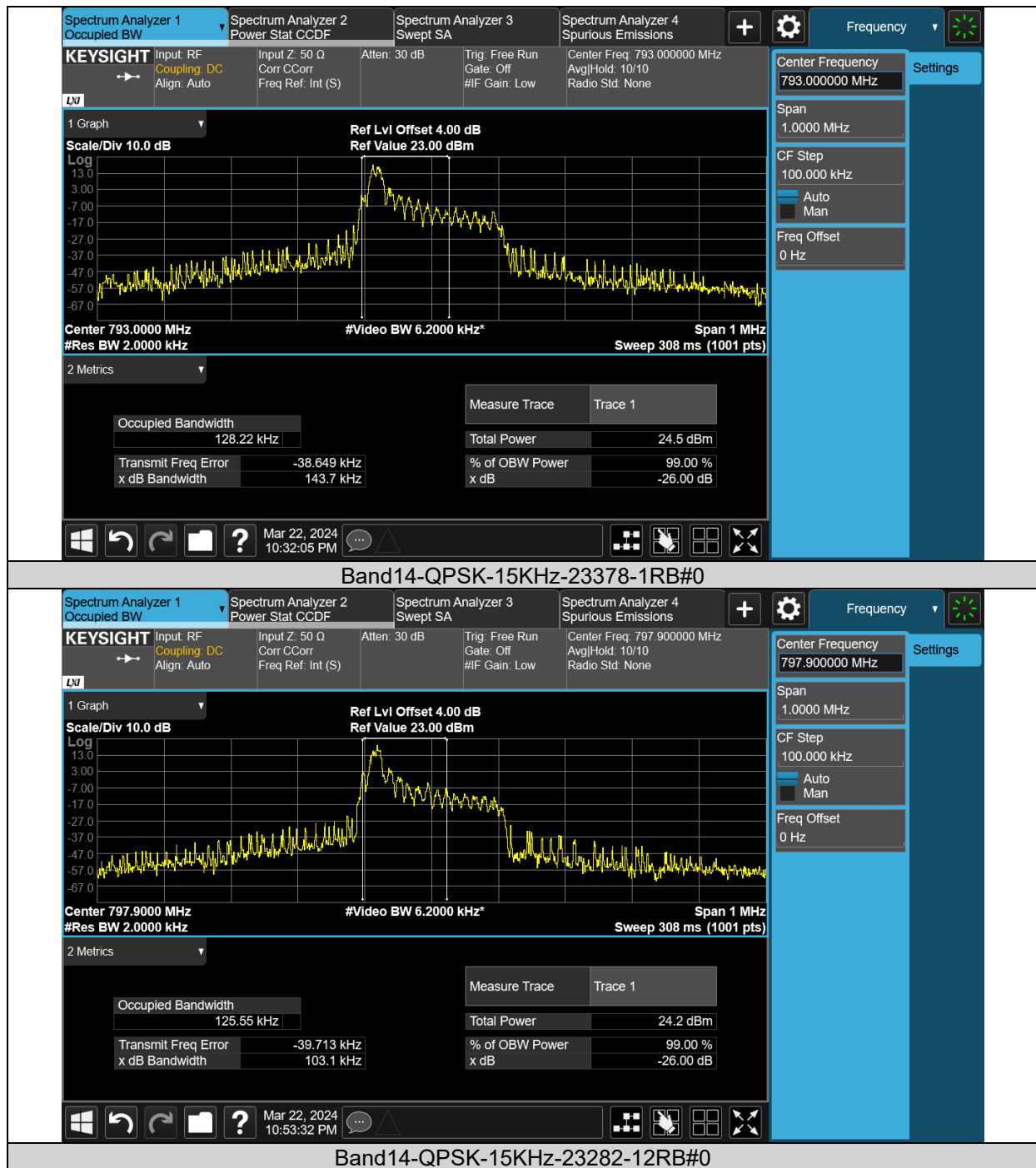
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