



BUREAU
VERITAS

Test Report No.: PSU-NQN2405090215RF03





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CONDUCTED SPURIOUS EMISSION

Test Result

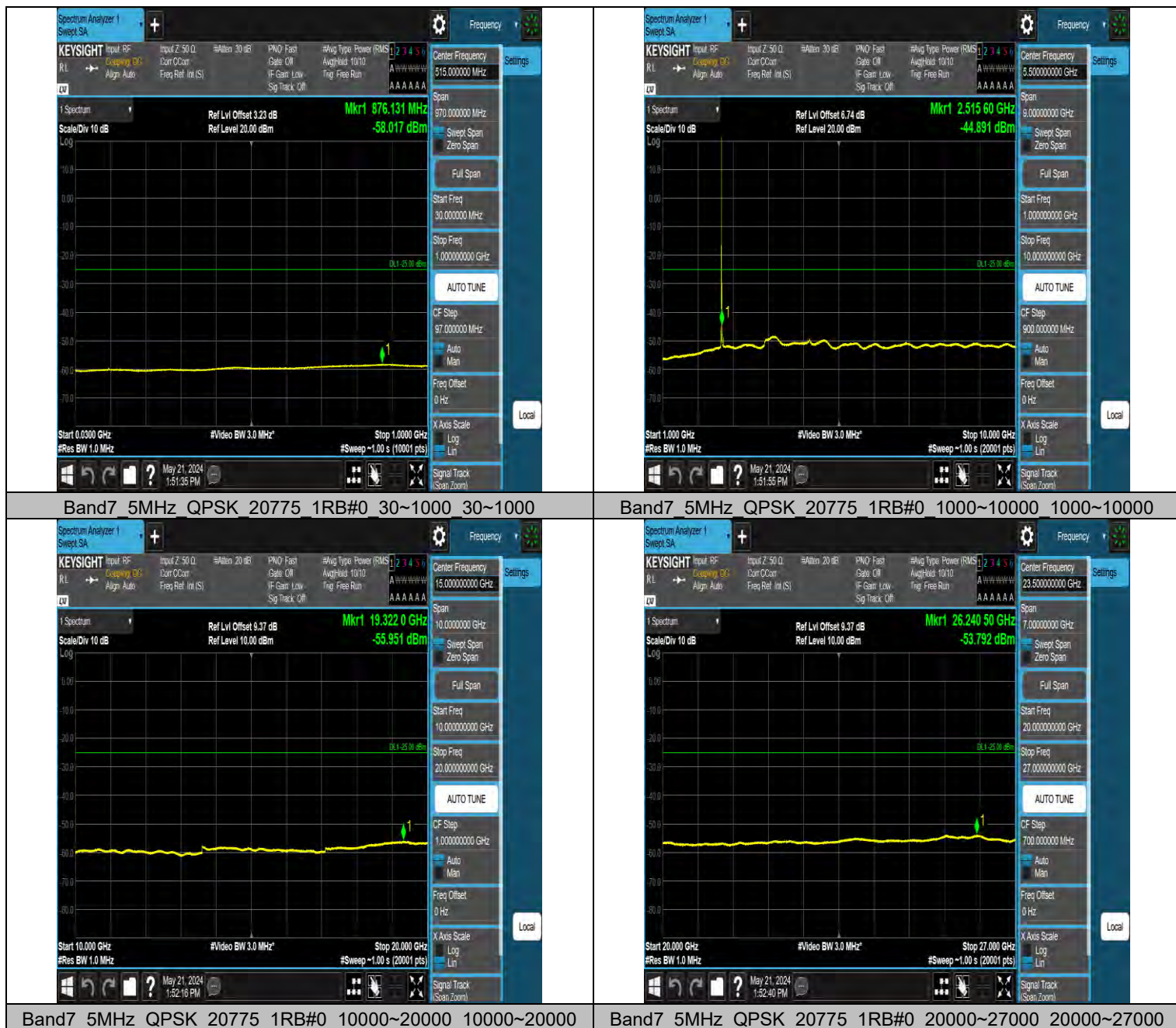
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	30~1000	-58.02	PASS
Band7	5MHz	QPSK	20775	1RB#0	1000~10000	-44.89	PASS
Band7	5MHz	QPSK	20775	1RB#0	10000~20000	-55.95	PASS
Band7	5MHz	QPSK	20775	1RB#0	20000~27000	-53.79	PASS
Band7	5MHz	QPSK	21100	1RB#0	30~1000	-58.15	PASS
Band7	5MHz	QPSK	21100	1RB#0	1000~10000	-43.53	PASS
Band7	5MHz	QPSK	21100	1RB#0	10000~20000	-55.87	PASS
Band7	5MHz	QPSK	21100	1RB#0	20000~27000	-53.77	PASS
Band7	5MHz	QPSK	21425	1RB#0	30~1000	-58.11	PASS
Band7	5MHz	QPSK	21425	1RB#0	1000~10000	-45.12	PASS
Band7	5MHz	QPSK	21425	1RB#0	10000~20000	-55.87	PASS
Band7	5MHz	QPSK	21425	1RB#0	20000~27000	-53.75	PASS
Band7	10MHz	QPSK	20800	1RB#0	30~1000	-58.19	PASS
Band7	10MHz	QPSK	20800	1RB#0	1000~10000	-48.12	PASS
Band7	10MHz	QPSK	20800	1RB#0	10000~20000	-55.77	PASS
Band7	10MHz	QPSK	20800	1RB#0	20000~27000	-53.70	PASS
Band7	10MHz	QPSK	21100	1RB#0	30~1000	-58.18	PASS
Band7	10MHz	QPSK	21100	1RB#0	1000~10000	-48.14	PASS
Band7	10MHz	QPSK	21100	1RB#0	10000~20000	-55.80	PASS
Band7	10MHz	QPSK	21100	1RB#0	20000~27000	-53.81	PASS
Band7	10MHz	QPSK	21400	1RB#0	30~1000	-58.14	PASS
Band7	10MHz	QPSK	21400	1RB#0	1000~10000	-48.13	PASS
Band7	10MHz	QPSK	21400	1RB#0	10000~20000	-55.83	PASS
Band7	10MHz	QPSK	21400	1RB#0	20000~27000	-53.79	PASS
Band7	15MHz	QPSK	20825	1RB#0	30~1000	-58.11	PASS
Band7	15MHz	QPSK	20825	1RB#0	1000~10000	-48.14	PASS
Band7	15MHz	QPSK	20825	1RB#0	10000~20000	-55.84	PASS
Band7	15MHz	QPSK	20825	1RB#0	20000~27000	-53.78	PASS
Band7	15MHz	QPSK	21100	1RB#0	30~1000	-58.18	PASS
Band7	15MHz	QPSK	21100	1RB#0	1000~10000	-48.13	PASS
Band7	15MHz	QPSK	21100	1RB#0	10000~20000	-55.85	PASS
Band7	15MHz	QPSK	21100	1RB#0	20000~27000	-53.84	PASS
Band7	15MHz	QPSK	21375	1RB#0	30~1000	-58.07	PASS
Band7	15MHz	QPSK	21375	1RB#0	1000~10000	-48.25	PASS
Band7	15MHz	QPSK	21375	1RB#0	10000~20000	-55.82	PASS
Band7	15MHz	QPSK	21375	1RB#0	20000~27000	-53.83	PASS
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-58.16	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~10000	-45.01	PASS
Band7	20MHz	QPSK	20850	1RB#0	10000~20000	-55.88	PASS
Band7	20MHz	QPSK	20850	1RB#0	20000~27000	-53.67	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-58.18	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~10000	-48.11	PASS
Band7	20MHz	QPSK	21100	1RB#0	10000~20000	-55.91	PASS
Band7	20MHz	QPSK	21100	1RB#0	20000~27000	-53.81	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-58.18	PASS



Test Report No.: PSU-NQN2405090215RF03

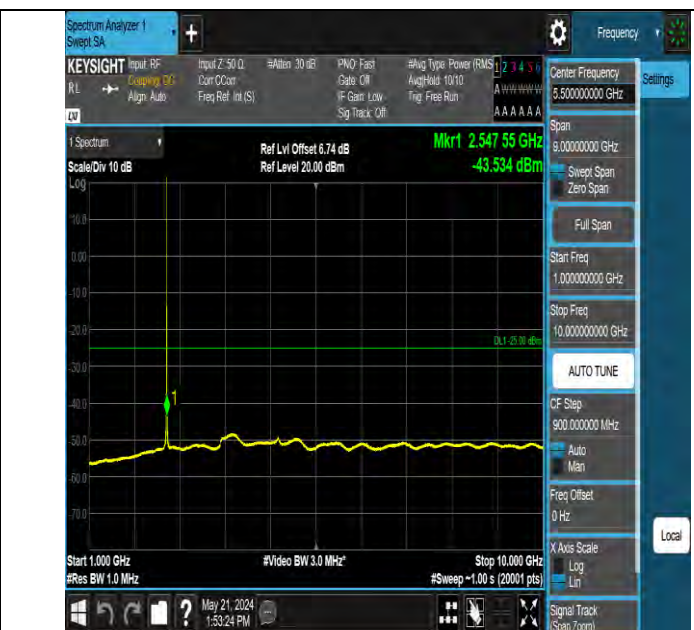
Band7	20MHz	QPSK	21350	1RB#0	1000~10000	-48.10	PASS
Band7	20MHz	QPSK	21350	1RB#0	10000~20000	-55.82	PASS
Band7	20MHz	QPSK	21350	1RB#0	20000~27000	-53.78	PASS

Test Graphs





Band7 5MHz QPSK 21100 1RB#0 30~1000 30~1000



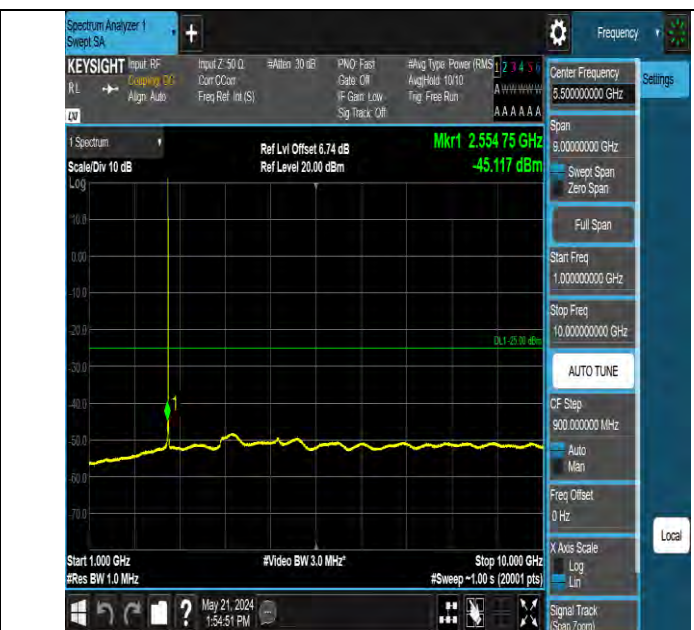
Band7 5MHz QPSK 21100 1RB#0 1000~10000 1000~10000



Band7 5MHz QPSK 21100 1RB#0 10000~20000 10000~20000

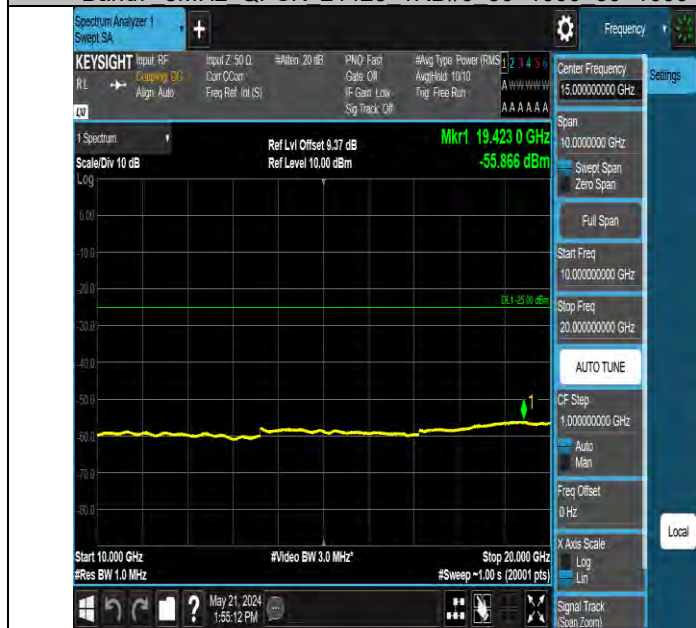


Band7 5MHz QPSK 21100 1RB#0 20000~27000 20000~27000



Band7 5MHz QPSK 21425 1RB#0 30~1000 30~1000

Band7 5MHz QPSK 21425 1RB#0 1000~10000 1000~10000



Band7 5MHz QPSK 21425 1RB#0 10000~20000 10000~20000

Band7 5MHz QPSK 21425 1RB#0 20000~27000 20000~27000



Band7 10MHz QPSK 20800 1RB#0 30~1000 30~1000

Band7 10MHz QPSK 20800 1RB#0 1000~10000 1000~10000



Band7 10MHz QPSK 20800 1RB#0 10000~20000 10000~20000

Band7 10MHz QPSK 20800 1RB#0 20000~27000 20000~27000



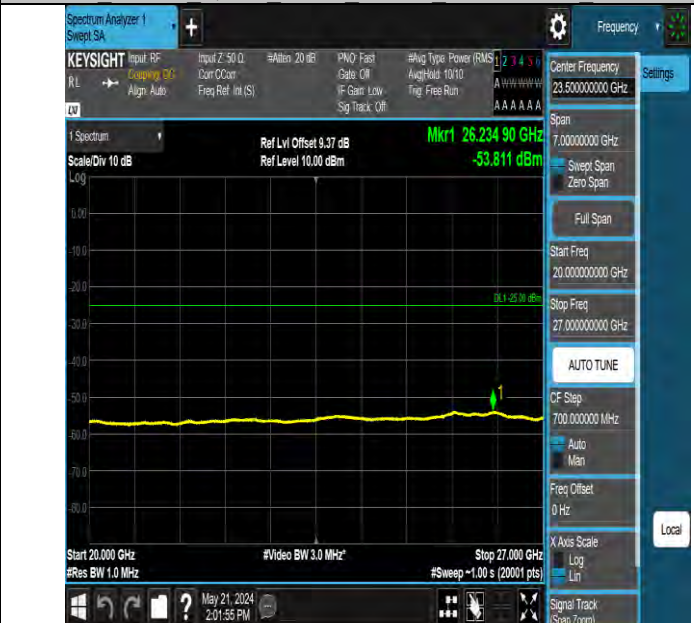
Band7 10MHz QPSK 21100 1RB#0 30~1000 30~1000



Band7 10MHz QPSK 21100 1RB#0 1000~10000 1000~10000



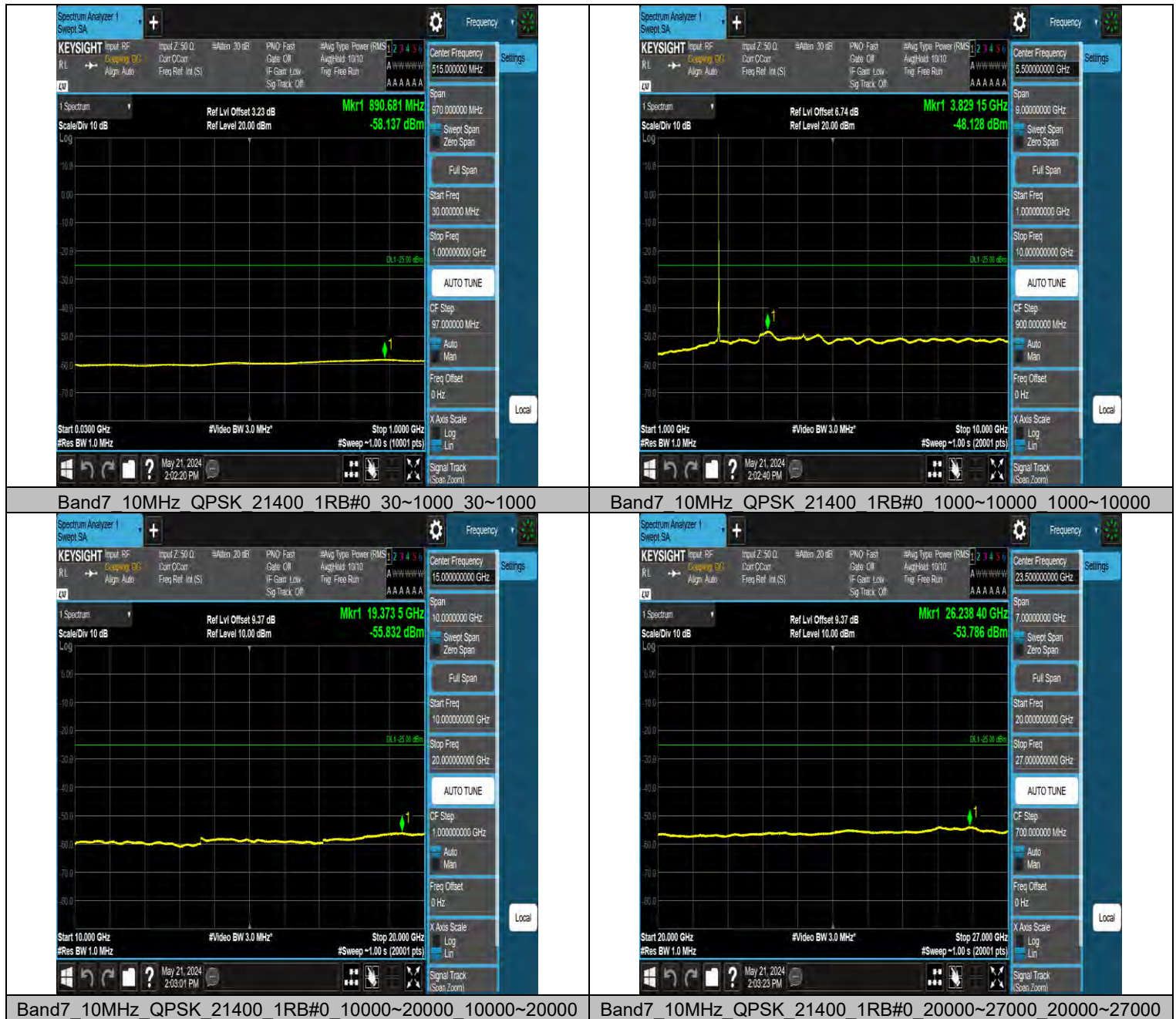
Band7 10MHz QPSK 21100 1RB#0 10000~20000 10000~20000



Band7 10MHz QPSK 21100 1RB#0 20000~27000 20000~27000



Test Report No.: PSU-NQN2405090215RF03





Band7 15MHz QPSK 20825 1RB#0 30~1000 30~1000

Band7 15MHz QPSK 20825 1RB#0 1000~10000 1000~10000



Band7 15MHz QPSK 20825 1RB#0 10000~20000 10000~20000

Band7 15MHz QPSK 20825 1RB#0 20000~27000 20000~27000



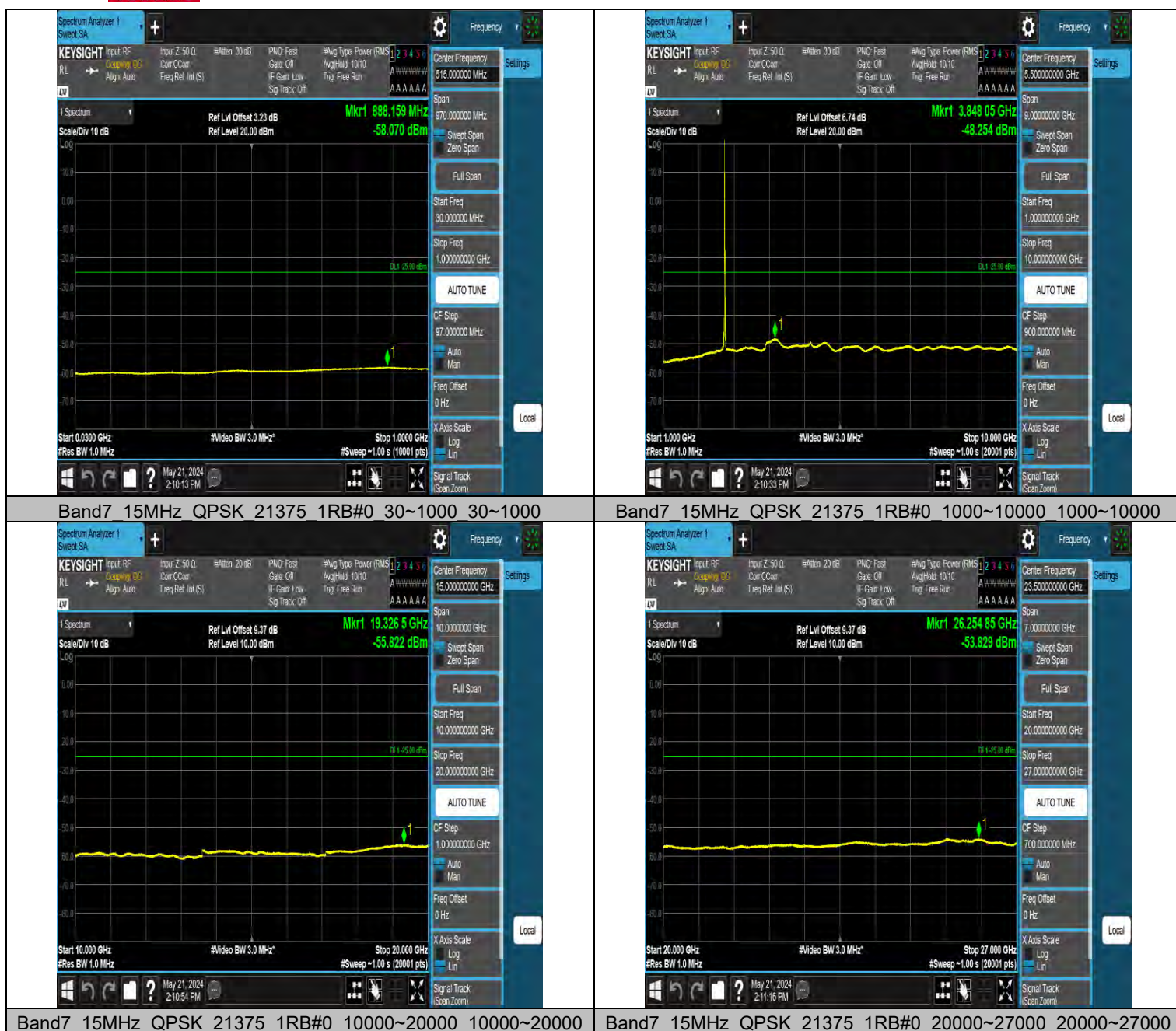
Band7 15MHz QPSK 21100 1RB#0 30~1000 30~1000

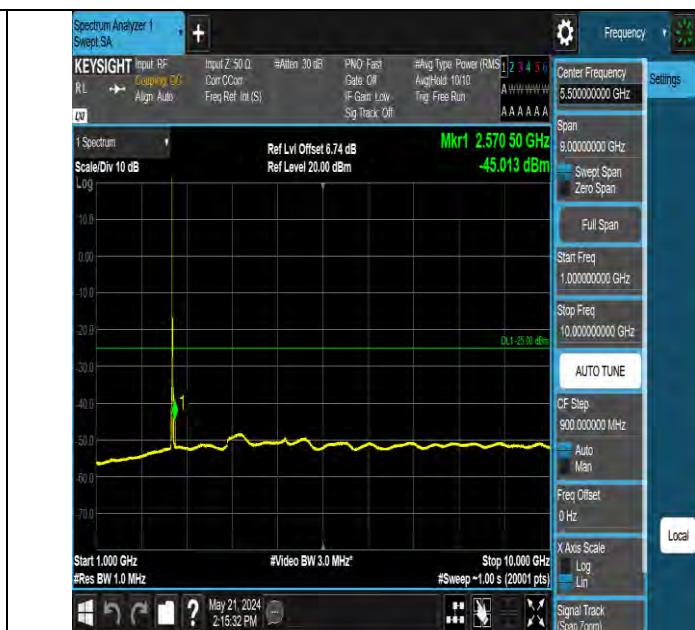
Band7 15MHz QPSK 21100 1RB#0 1000~10000 1000~10000



Band7 15MHz QPSK 21100 1RB#0 10000~20000 10000~20000

Band7 15MHz QPSK 21100 1RB#0 20000~27000 20000~27000





Band7 20MHz QPSK 20850 1RB#0 30~1000 30~1000

Band7 20MHz QPSK 20850 1RB#0 1000~10000 1000~10000



Band7 20MHz QPSK 20850 1RB#0 10000~20000 10000~20000

Band7 20MHz QPSK 20850 1RB#0 20000~27000 20000~27000



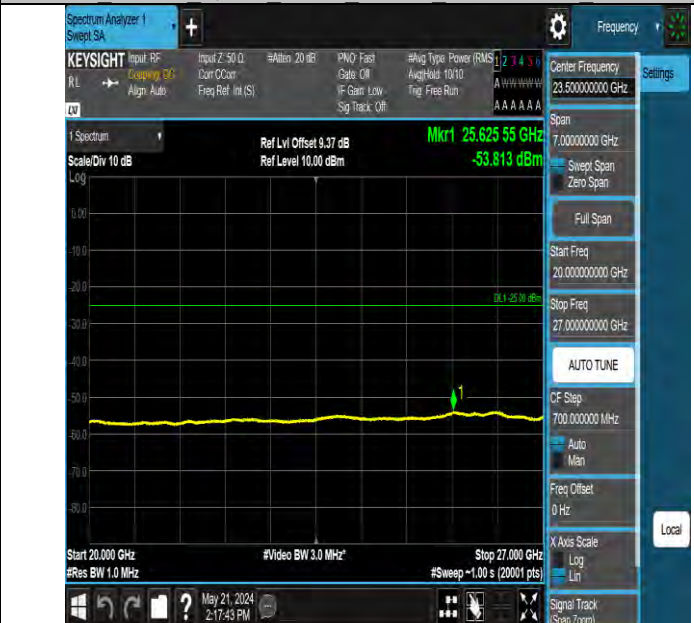
Band7 20MHz QPSK 21100 1RB#0 30~1000 30~1000



Band7 20MHz QPSK 21100 1RB#0 1000~10000 1000~10000



Band7 20MHz QPSK 21100 1RB#0 10000~20000 10000~20000



Band7 20MHz QPSK 21100 1RB#0 20000~27000 20000~27000



FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band7	10MHz	QPSK	20800	50RB #0	VN	NT	52.86	0.02	2505.018142	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	VL	NT	-42.26	-0.02	2505.018988	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	VH	NT	13.22	0.01	2505.020814	---	2500-2570	PASS
Band7	10MHz	QPSK	21400	50RB #0	VN	NT	63.51	0.02	---	2565.010932	2500-2570	PASS
Band7	10MHz	QPSK	21400	50RB #0	VL	NT	-26.25	-0.01	---	2565.013908	2500-2570	PASS
Band7	10MHz	QPSK	21400	50RB #0	VH	NT	-57.18	-0.02	---	2565.014129	2500-2570	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band7	10MHz	QPSK	20800	50RB #0	NV	-30	33.79	0.01	2505.016571	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	-20	30.93	0.01	2505.006586	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	-10	10.66	0.00	2505.006425	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	0	18.73	0.01	2505.008082	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	10	46.12	0.02	2505.019254	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	20	31.87	0.01	2504.995793	---	2500-2570	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	30	22.13	0.01	2505.00621	---	2500-2570	PASS

									9			
Band7	10MH z	QPSK	20800	50RB #0	NV	40	43.97	0.02	2505. 01814 4	---	2500- 2570	PASS
Band7	10MH z	QPSK	20800	50RB #0	NV	50	-14.10	-0.01	2505. 01590 8	---	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	-30	-56.85	-0.02	---	2565. 01087 1	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	-20	-44.42	-0.02	---	2565. 01056 4	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	-10	-33.80	-0.01	---	2565. 01385 4	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	0	-40.01	-0.02	---	2565. 01422 7	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	10	-57.81	-0.02	---	2565. 01067 4	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	20	-28.87	-0.01	---	2565. 01251 1	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	30	-11.66	-0.00	---	2565. 01075 2	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	40	-36.18	-0.01	---	2565. 01294 8	2500- 2570	PASS
Band7	10MH z	QPSK	21400	50RB #0	NV	50	-19.87	-0.01	---	2565. 01087 1	2500- 2570	PASS



Test Report No.: PSU-NQN2405090215RF03

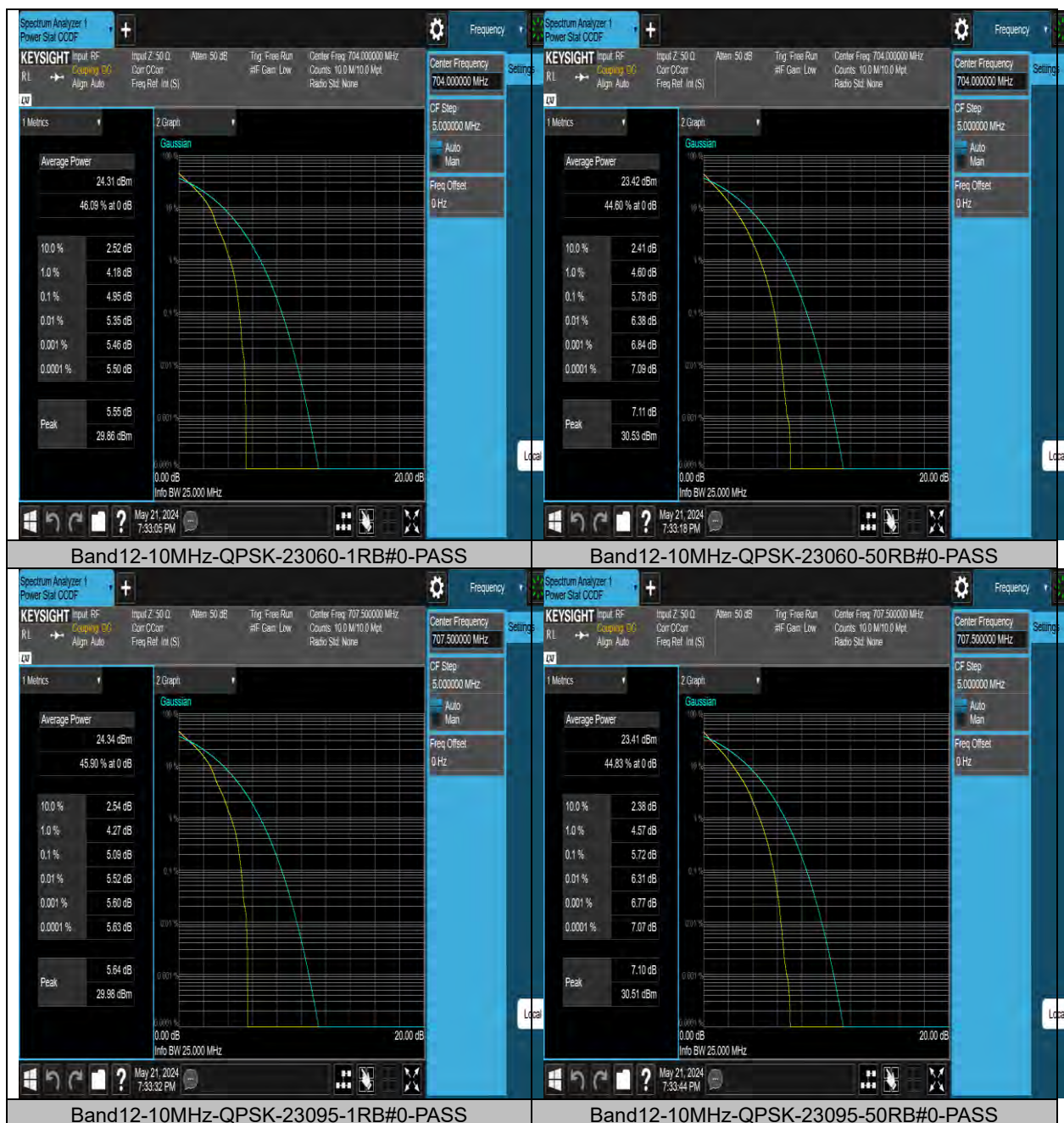
LTE BAND12(INCLUDING B17)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	4.95	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.78	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.09	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.72	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.33	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.71	13	PASS

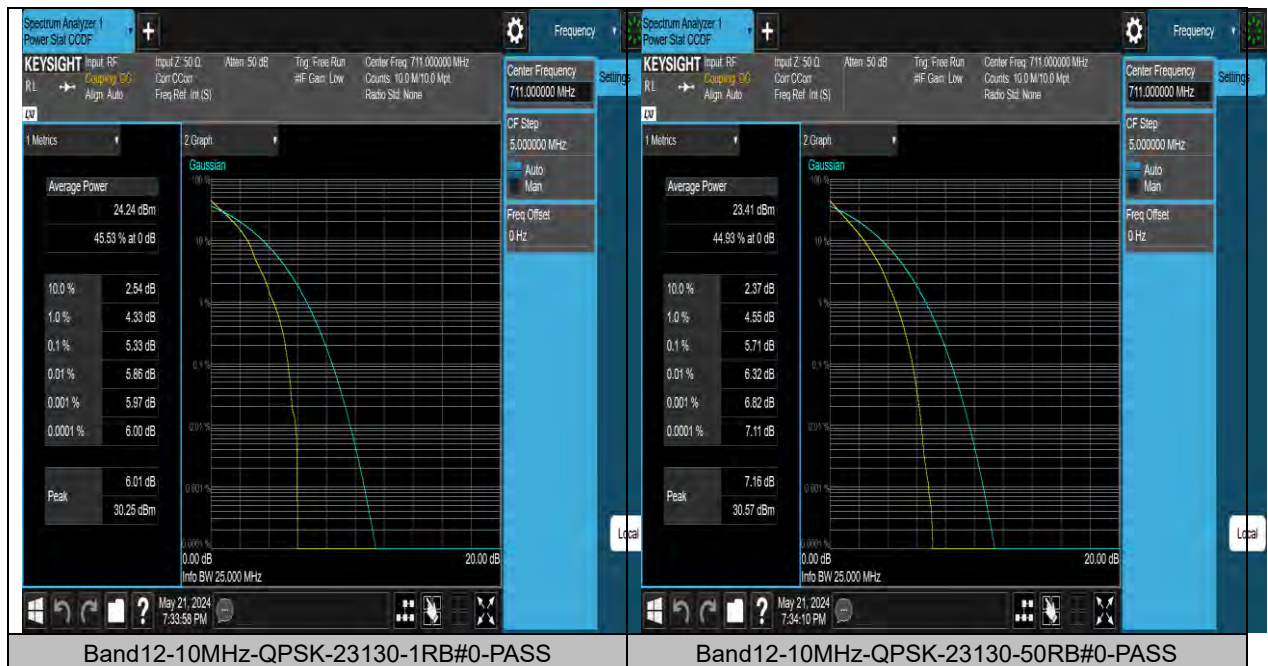
Test Graphs





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Test Report No.: PSU-NQN2405090215RF03

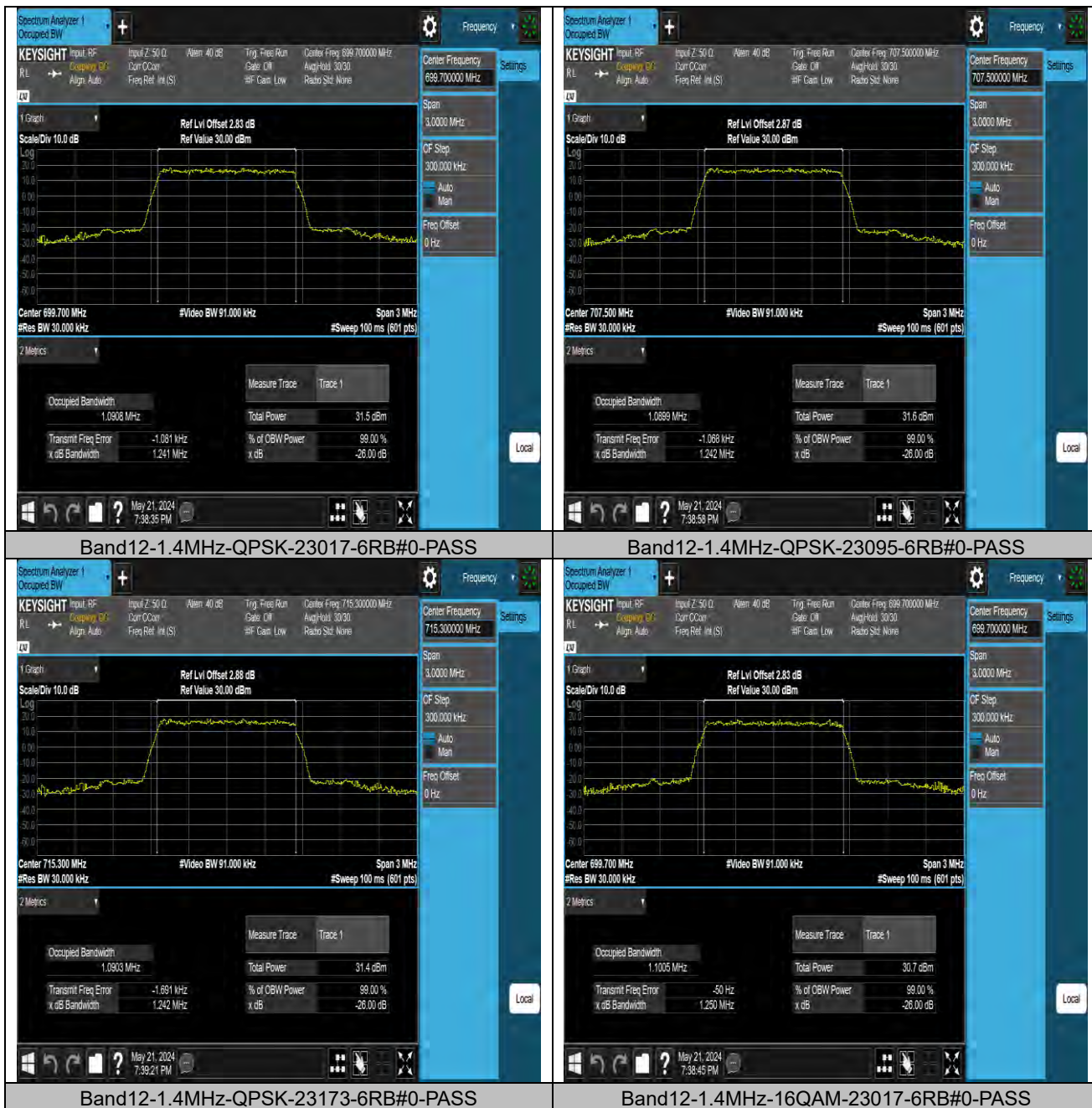


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0908	1.241	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0899	1.242	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0903	1.242	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1005	1.250	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1006	1.247	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1008	1.244	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7057	3.020	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7105	3.027	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7031	3.023	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7047	3.026	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7029	3.038	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6985	3.033	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5215	4.998	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5293	5.012	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5248	5.009	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4986	4.987	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4971	4.983	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4972	4.980	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0311	9.926	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0045	9.934	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0089	9.927	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9952	9.924	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0178	9.940	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9875	9.898	PASS

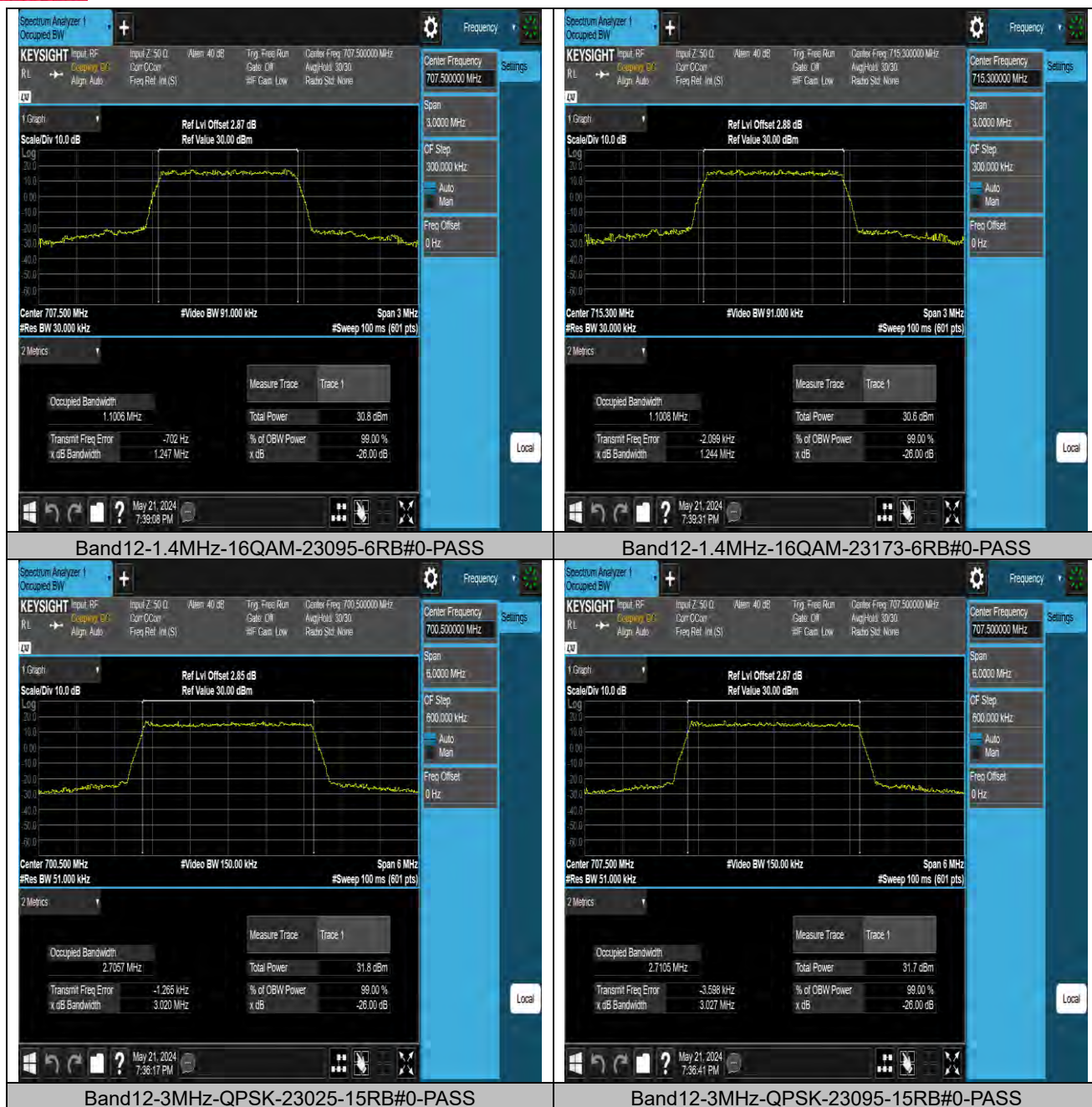
Test Graphs





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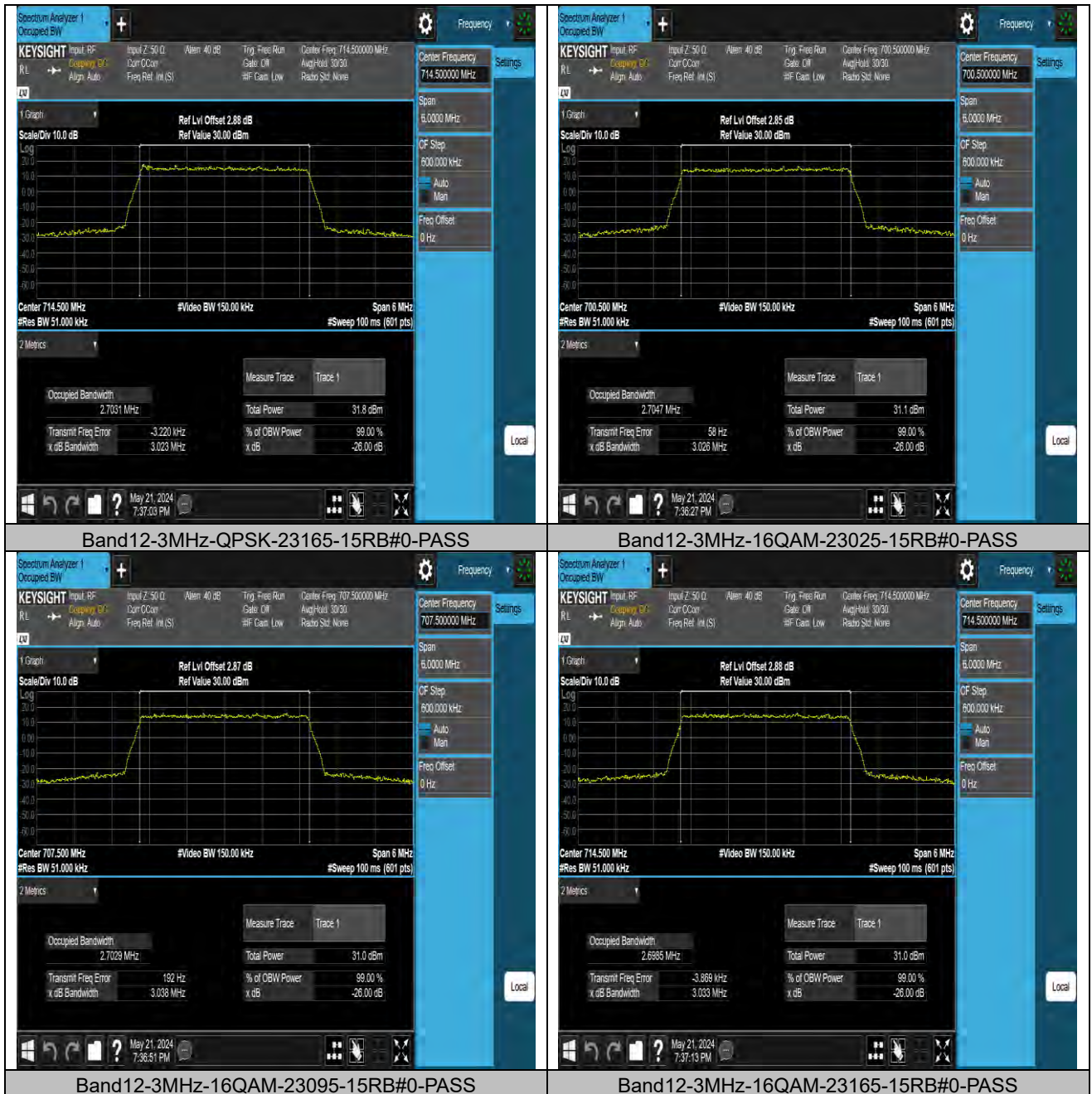
Test Report No.: PSU-NQN2405090215RF03





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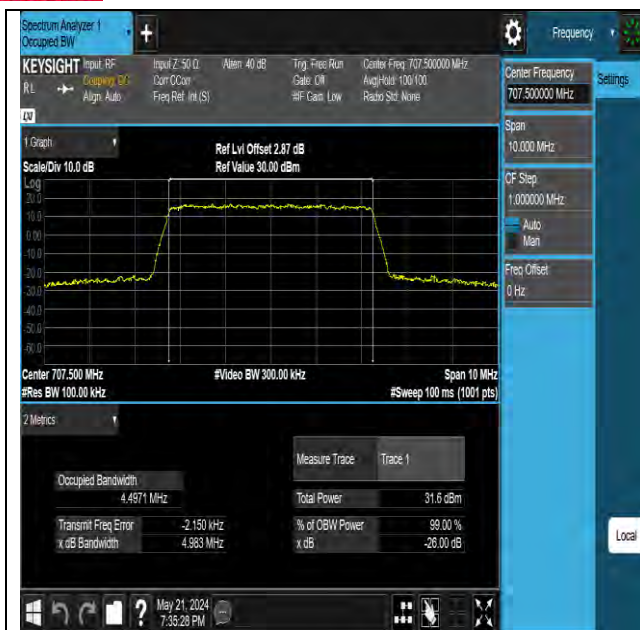




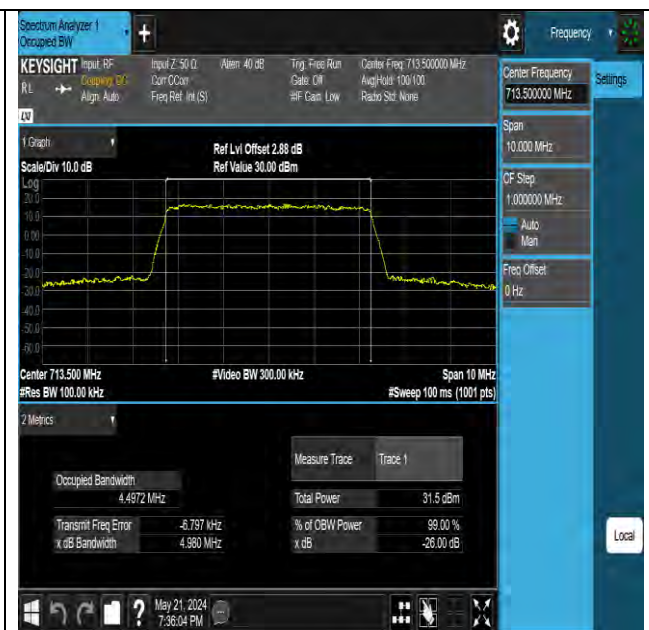
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Test Report No.: PSU-NQN2405090215RF03





Band12-5MHz-16QAM-23095-25RB#0-PASS



Band12-5MHz-16QAM-23155-25RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS



Band12-10MHz-QPSK-23095-50RB#0-PASS



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Test Report No.: PSU-NQN2405090215RF03

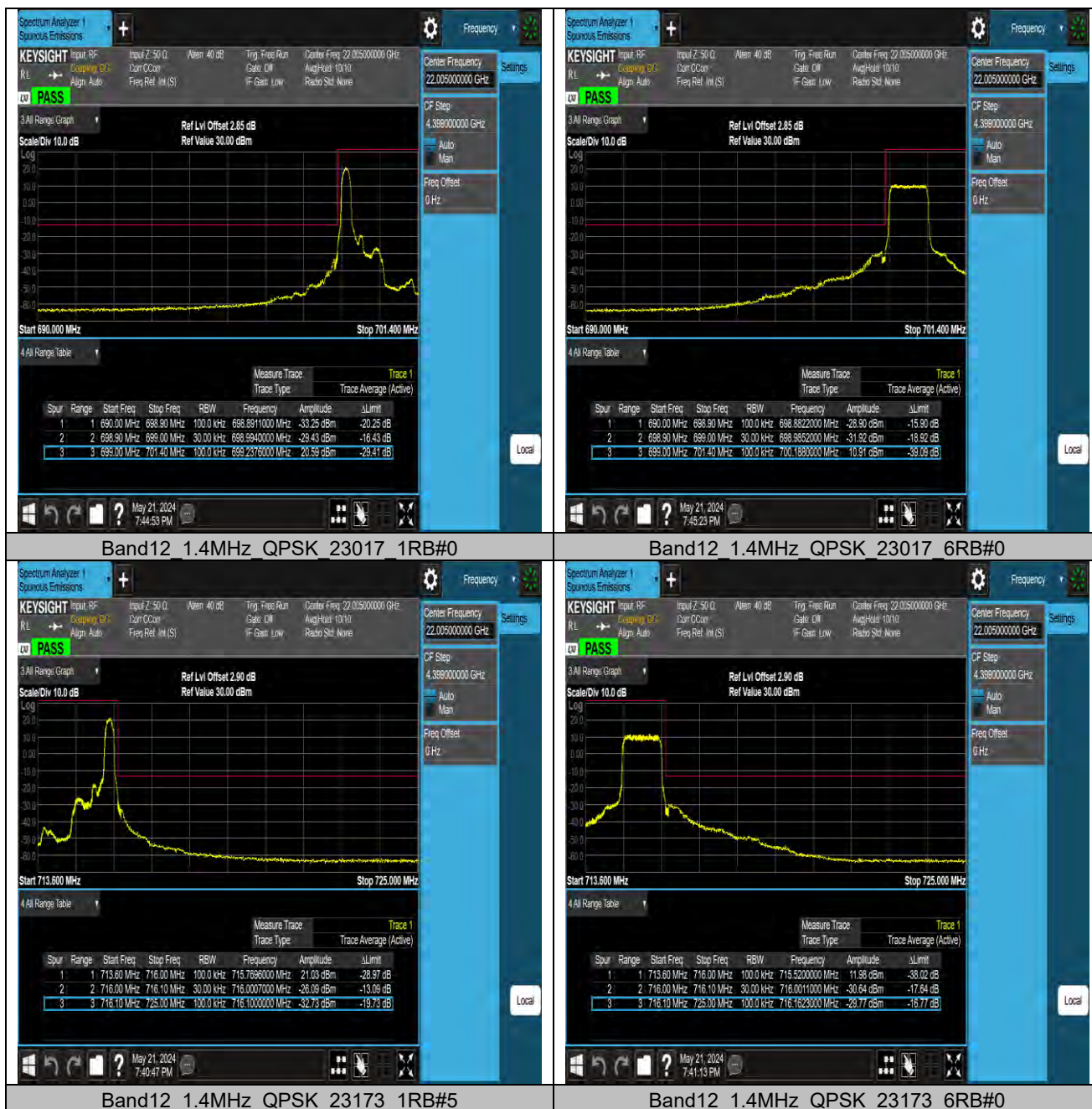


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-29.43	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-28.90	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-26.09	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-29.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-27.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-28.84	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-24.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-28.81	PASS
Band12	3MHz	QPSK	23025	1RB#0	-18.60	PASS
Band12	3MHz	QPSK	23025	15RB#0	-27.68	PASS
Band12	3MHz	QPSK	23165	1RB#14	-17.50	PASS
Band12	3MHz	QPSK	23165	15RB#0	-26.79	PASS
Band12	3MHz	16QAM	23025	1RB#0	-18.29	PASS
Band12	3MHz	16QAM	23025	15RB#0	-28.35	PASS
Band12	3MHz	16QAM	23165	1RB#14	-16.16	PASS
Band12	3MHz	16QAM	23165	15RB#0	-28.20	PASS
Band12	5MHz	QPSK	23035	1RB#0	-26.31	PASS
Band12	5MHz	QPSK	23035	25RB#0	-33.70	PASS
Band12	5MHz	QPSK	23155	1RB#24	-24.82	PASS
Band12	5MHz	QPSK	23155	25RB#0	-34.71	PASS
Band12	5MHz	16QAM	23035	1RB#0	-28.36	PASS
Band12	5MHz	16QAM	23035	25RB#0	-34.07	PASS
Band12	5MHz	16QAM	23155	1RB#24	-26.01	PASS
Band12	5MHz	16QAM	23155	25RB#0	-34.81	PASS
Band12	10MHz	QPSK	23060	1RB#0	-32.74	PASS
Band12	10MHz	QPSK	23060	50RB#0	-36.89	PASS
Band12	10MHz	QPSK	23130	1RB#49	-30.70	PASS
Band12	10MHz	QPSK	23130	50RB#0	-36.22	PASS
Band12	10MHz	16QAM	23060	1RB#0	-32.97	PASS
Band12	10MHz	16QAM	23060	50RB#0	-37.04	PASS
Band12	10MHz	16QAM	23130	1RB#49	-31.64	PASS
Band12	10MHz	16QAM	23130	50RB#0	-37.71	PASS

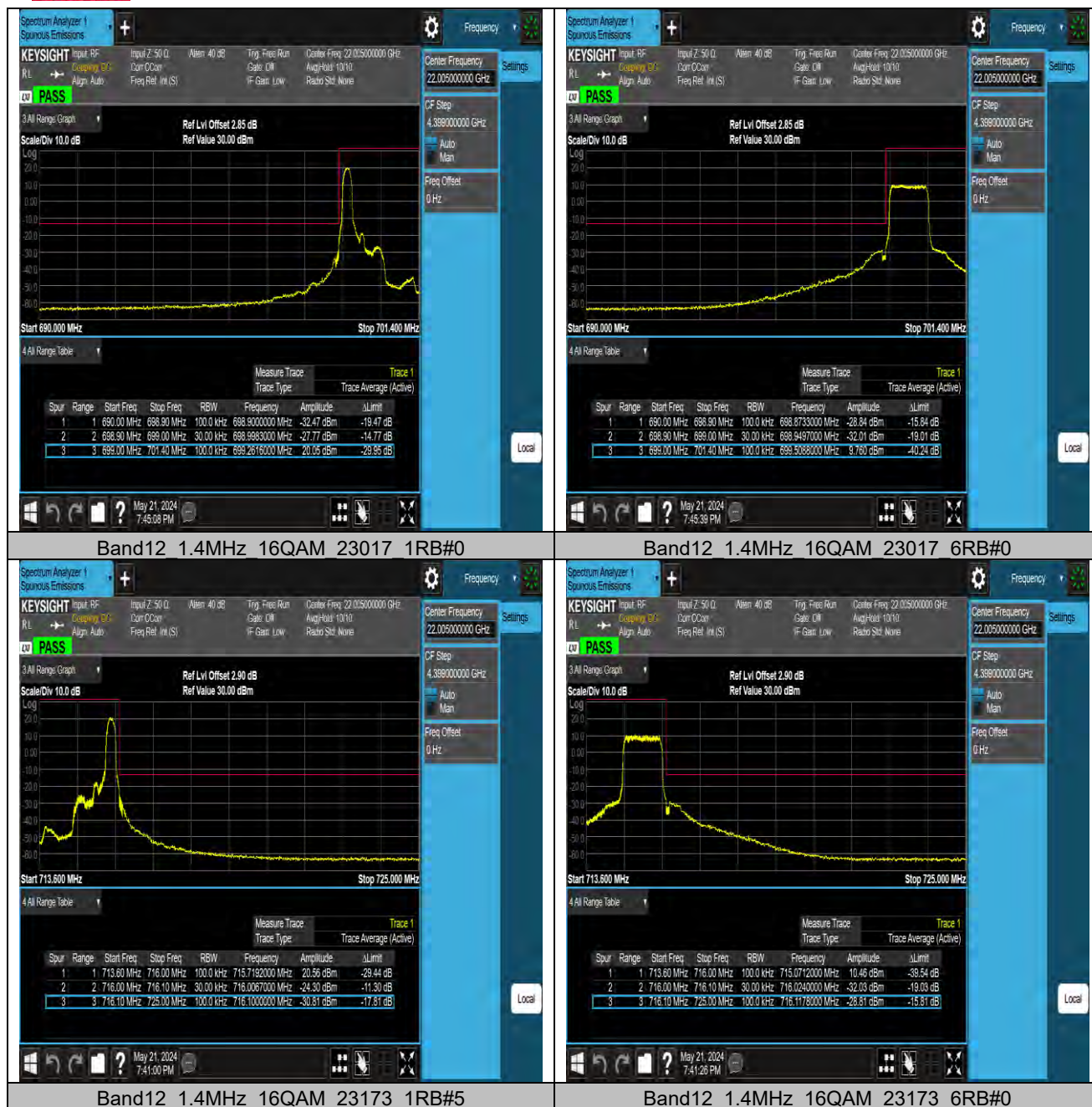
Test Graphs





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Test Report No.: PSU-NQN2405090215RF03





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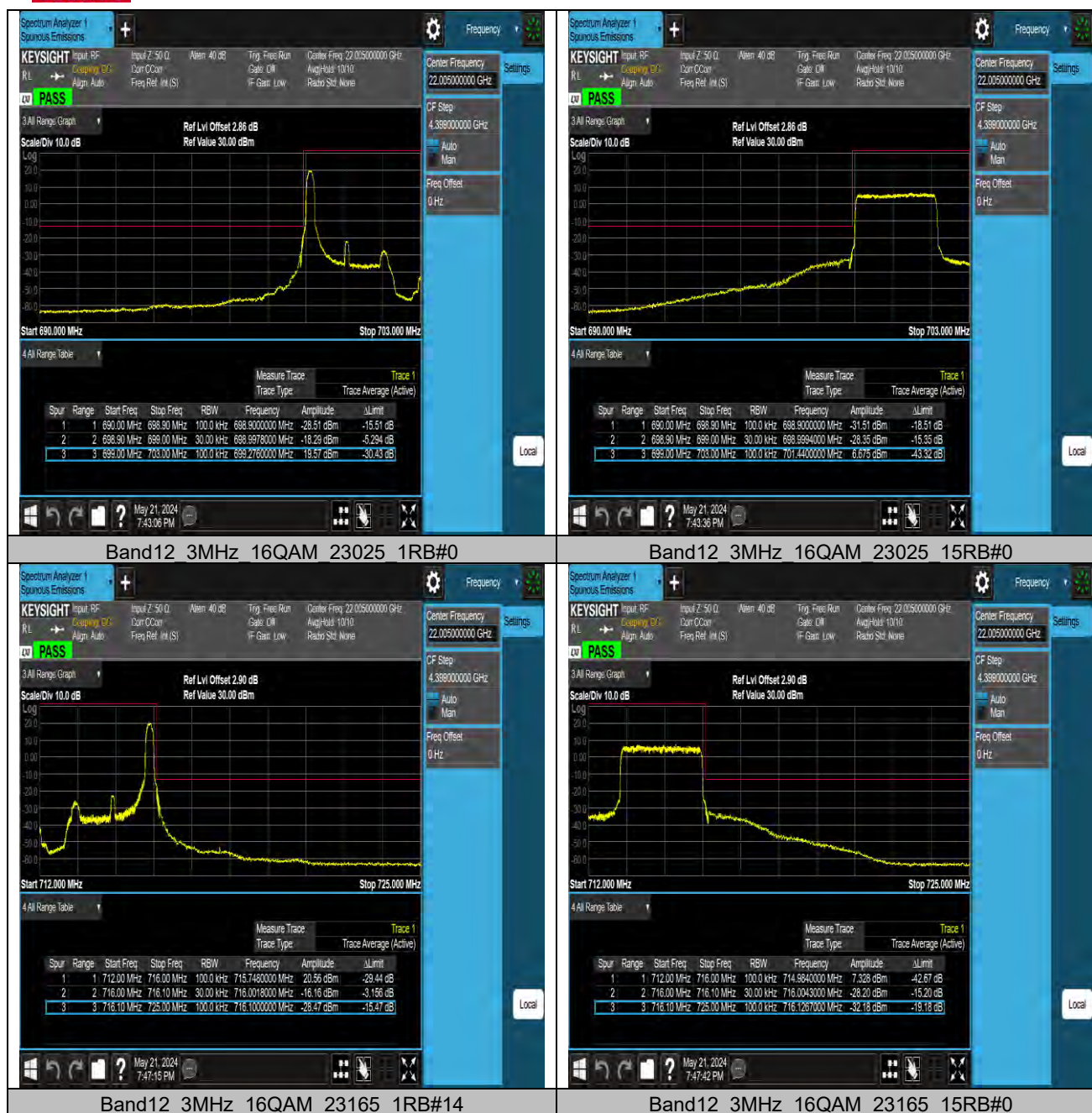
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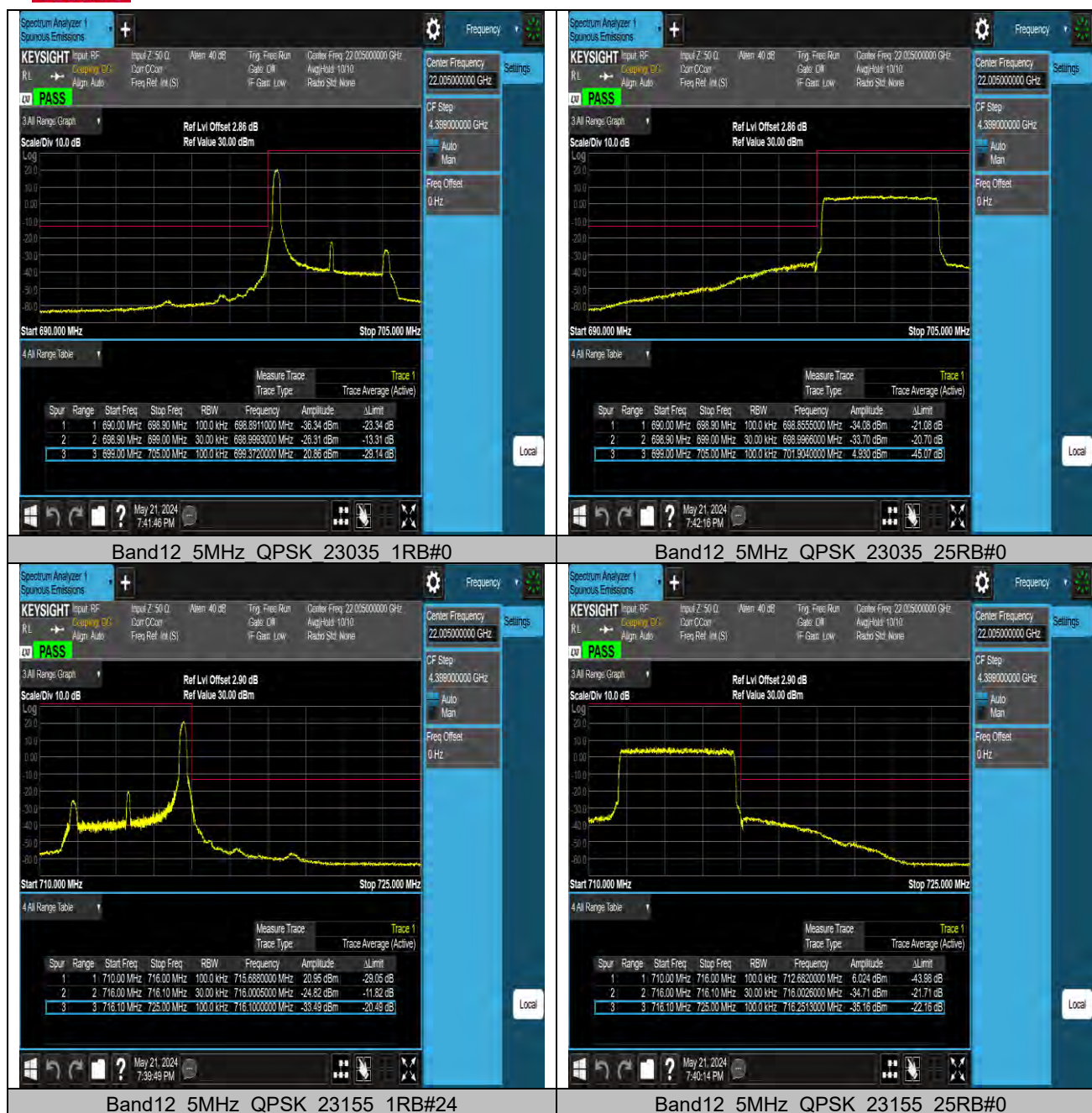




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Test Report No.: PSU-NQN2405090215RF03







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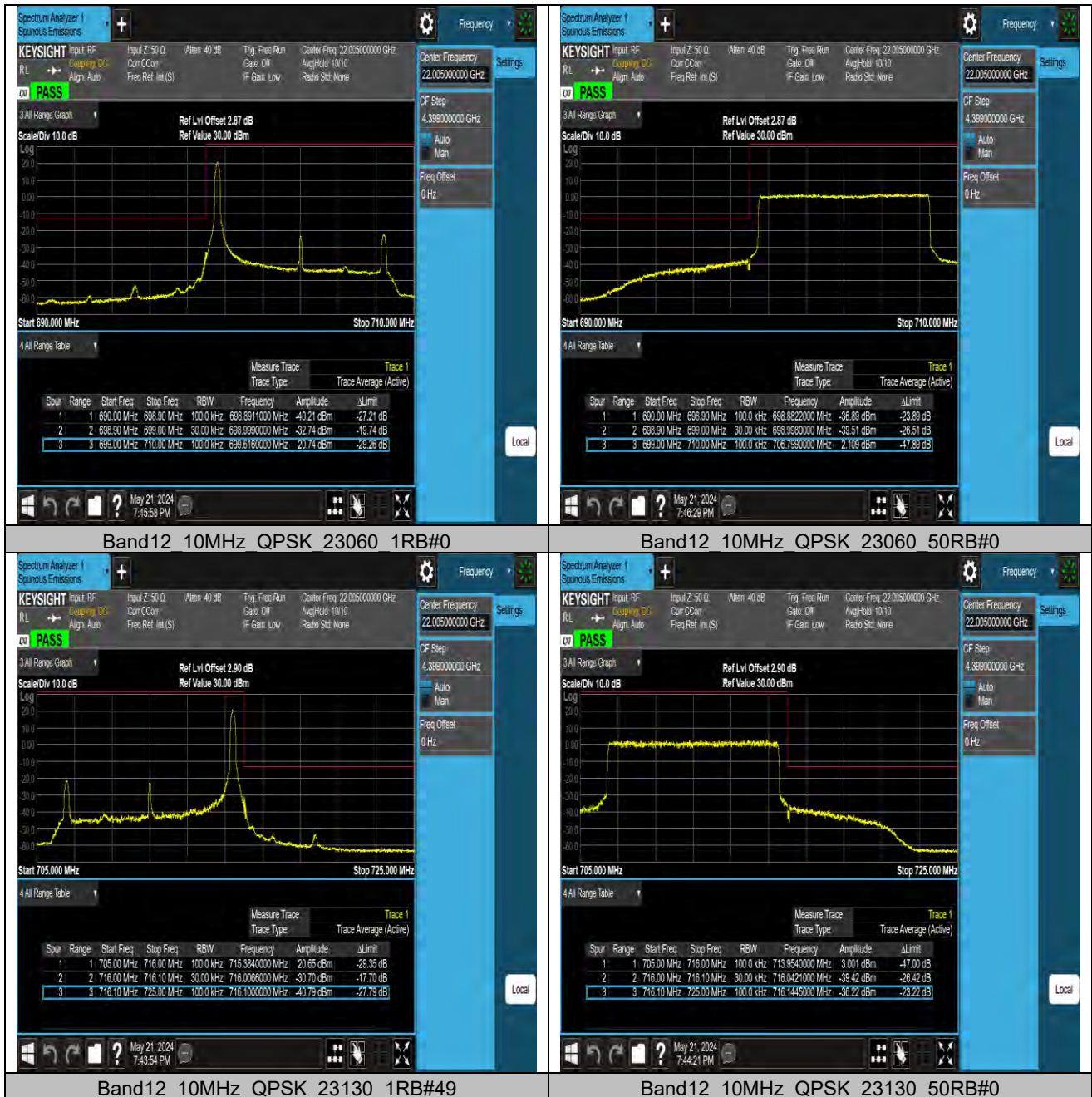
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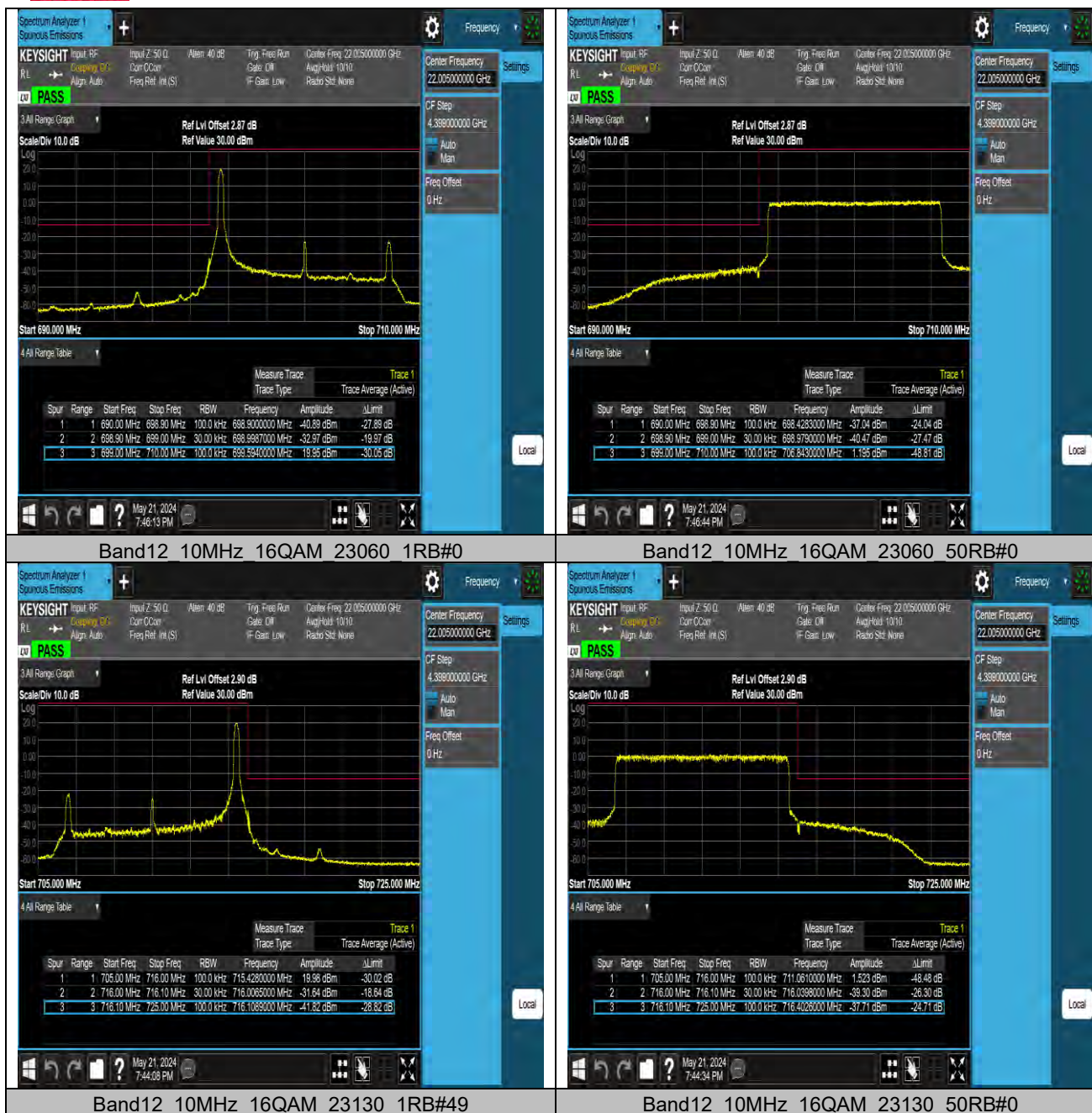
Test Report No.: PSU-NQN2405090215RF03





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Test Report No.: PSU-NQN2405090215RF03



CONDUCTED SPURIOUS EMISSION

Test Result

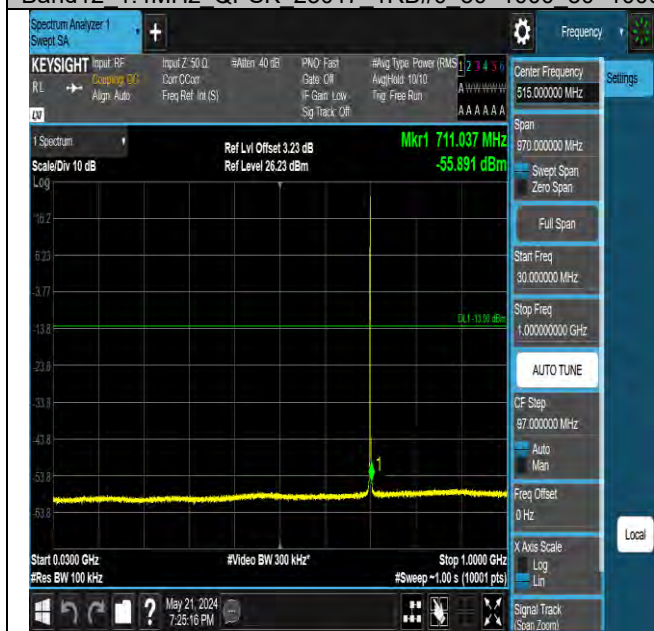
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-57.24	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~10000	-47.99	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-55.89	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~10000	-35.76	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-55.62	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~10000	-35.27	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-55.11	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~10000	-36.52	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-55.61	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~10000	-34.95	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-56.33	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~10000	-35.52	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-57.14	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~10000	-34.95	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-57.19	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~10000	-35.18	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-57.18	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~10000	-35.10	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-57.24	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~10000	-34.65	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-57.05	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~10000	-35.74	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-57.25	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~10000	-36.40	PASS

Test Graphs



Band12 1.4MHz QPSK 23017 1RB#0 30~1000 30~1000

Band12 1.4MHz QPSK 23017 1RB#0 1000~10000 1000~10000

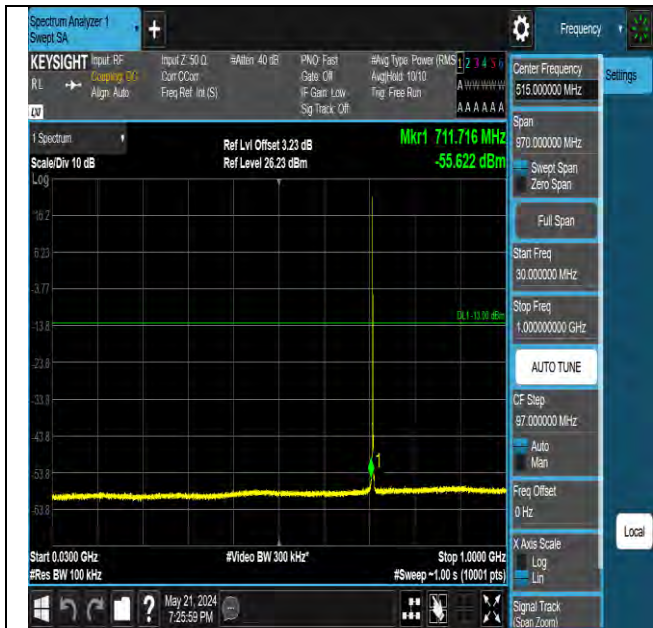


Band12 1.4MHz QPSK 23095 1RB#0 30~1000 30~1000

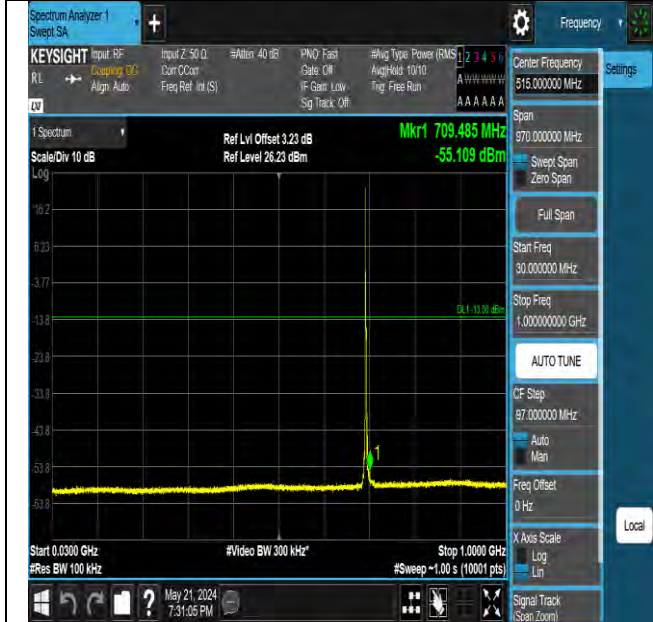
Band12 1.4MHz QPSK 23095 1RB#0 1000~10000 1000~10000



Test Report No.: PSU-NQN2405090215RF03



Band12 1.4MHz QPSK 23173 1RB#0 30~1000 30~1000



Band12 3MHz QPSK 23025 1RB#0 30~1000 30~1000



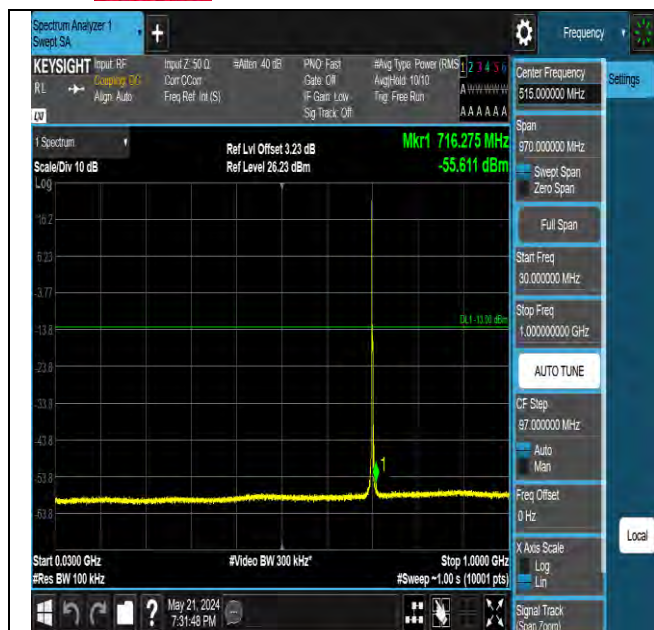
Band12 1.4MHz QPSK 23173 1RB#0 1000~10000 1000~10000



Band12 3MHz QPSK 23025 1RB#0 1000~10000 1000~10000



Test Report No.: PSU-NQN2405090215RF03



Band12 3MHz QPSK 23095 1RB#0 30~1000 30~1000



Band12 3MHz QPSK 23165 1RB#0 30~1000 30~1000



Band12 3MHz QPSK 23095 1RB#0 1000~10000 1000~10000



Band12 3MHz QPSK 23165 1RB#0 1000~10000 1000~10000

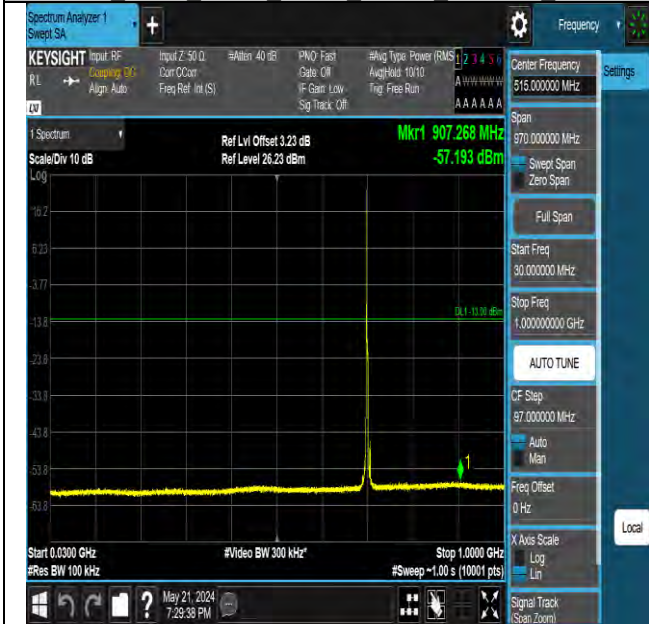


BUREAU
VERITAS

Test Report No.: PSU-NQN2405090215RF03



Band12 5MHz QPSK 23035 1RB#0 30~1000 30~1000



Band12 5MHz QPSK 23095 1RB#0 30~1000 30~1000



Band12 5MHz QPSK 23095 1RB#0 1000~10000 1000~10000

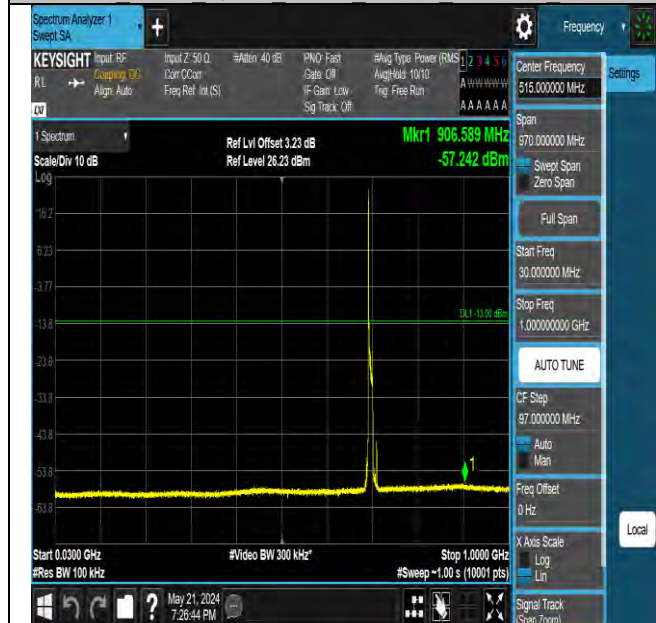


Test Report No.: PSU-NQN2405090215RF03



Band12 5MHz QPSK 23155 1RB#0 30~1000 30~1000

Band12 5MHz QPSK 23155 1RB#0 1000~10000 1000~10000



Band12 10MHz QPSK 23060 1RB#0 30~1000 30~1000

Band12 10MHz QPSK 23060 1RB#0 1000~10000 1000~10000