

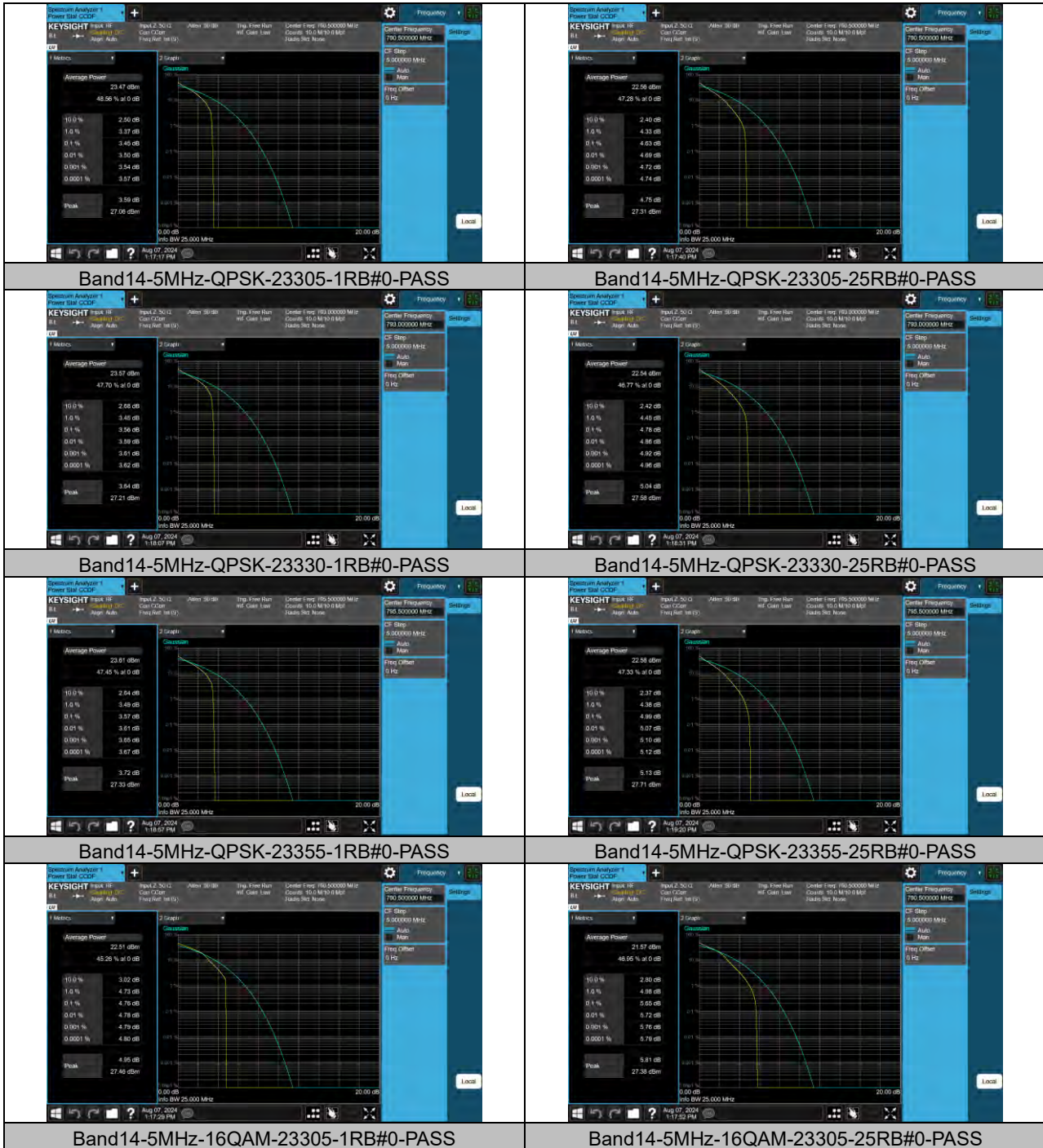
APPENDIX E

LTE BAND 14

PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	3.45	13	PASS
Band14	5MHz	QPSK	23305	25RB#0	4.63	13	PASS
Band14	5MHz	QPSK	23330	1RB#0	3.56	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.78	13	PASS
Band14	5MHz	QPSK	23355	1RB#0	3.57	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.99	13	PASS
Band14	5MHz	16QAM	23305	1RB#0	4.76	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	5.65	13	PASS
Band14	5MHz	16QAM	23330	1RB#0	4.65	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	5.75	13	PASS
Band14	5MHz	16QAM	23355	1RB#0	4.76	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	5.91	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	3.52	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	4.92	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	4.95	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.80	13	PASS

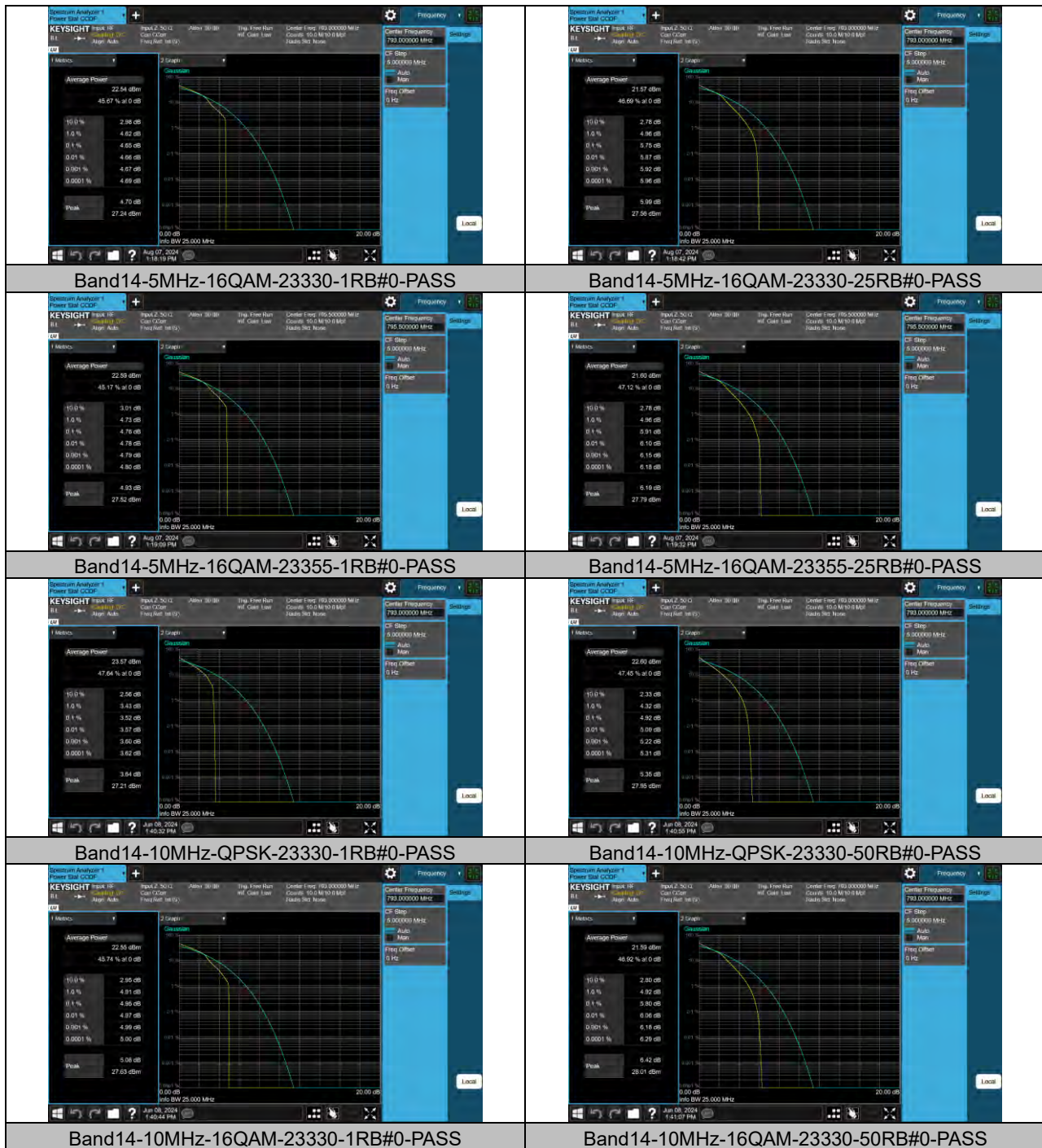
TEST GRAPHS





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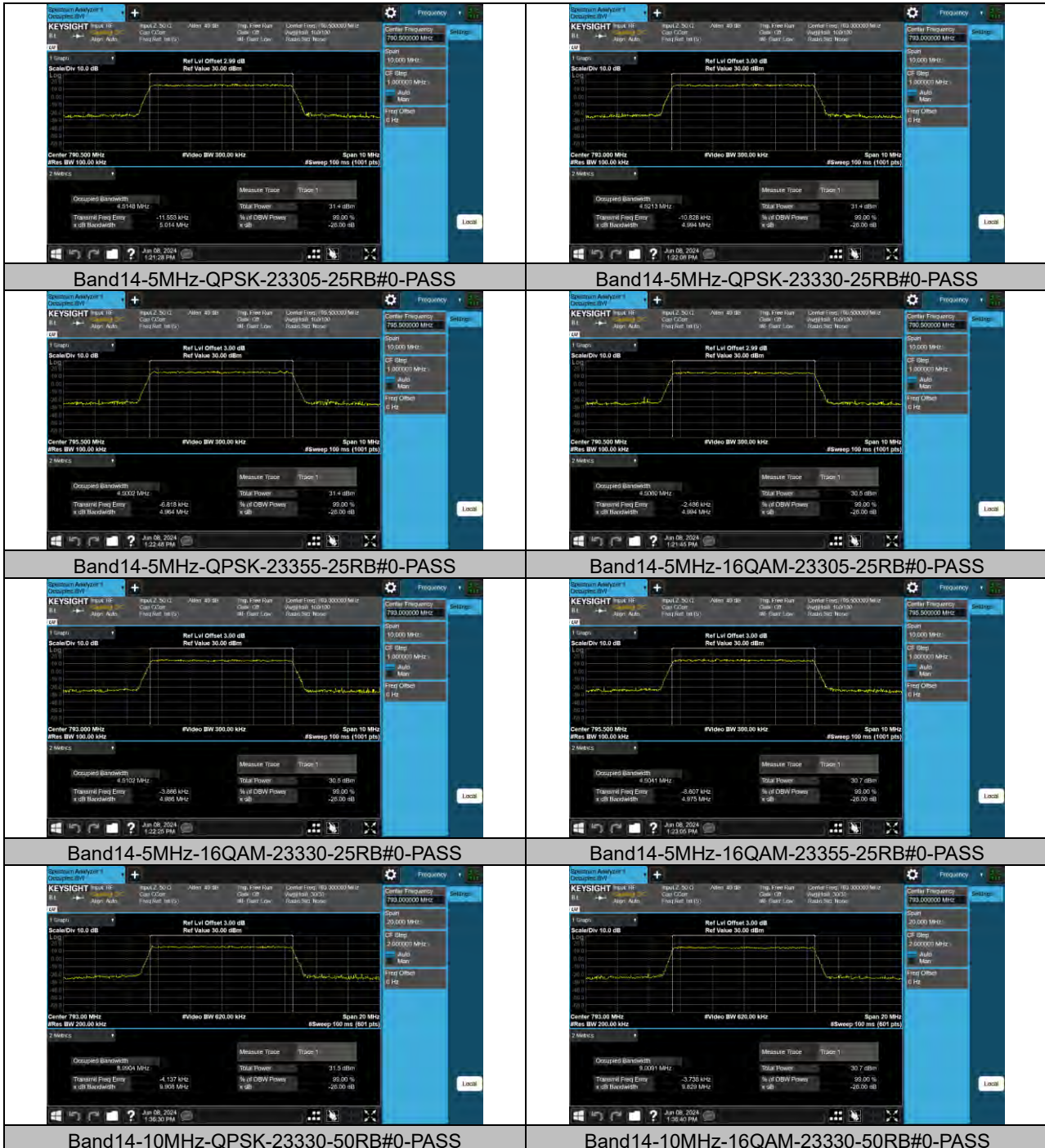
Reference No.: W7L-P24050018RF09



26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5148	5.014	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5213	4.994	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5002	4.964	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5060	4.994	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5102	4.986	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5041	4.975	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9904	9.908	PASS
Band14	10MHz	16QAM	23330	50RB#0	9.0091	9.829	PASS

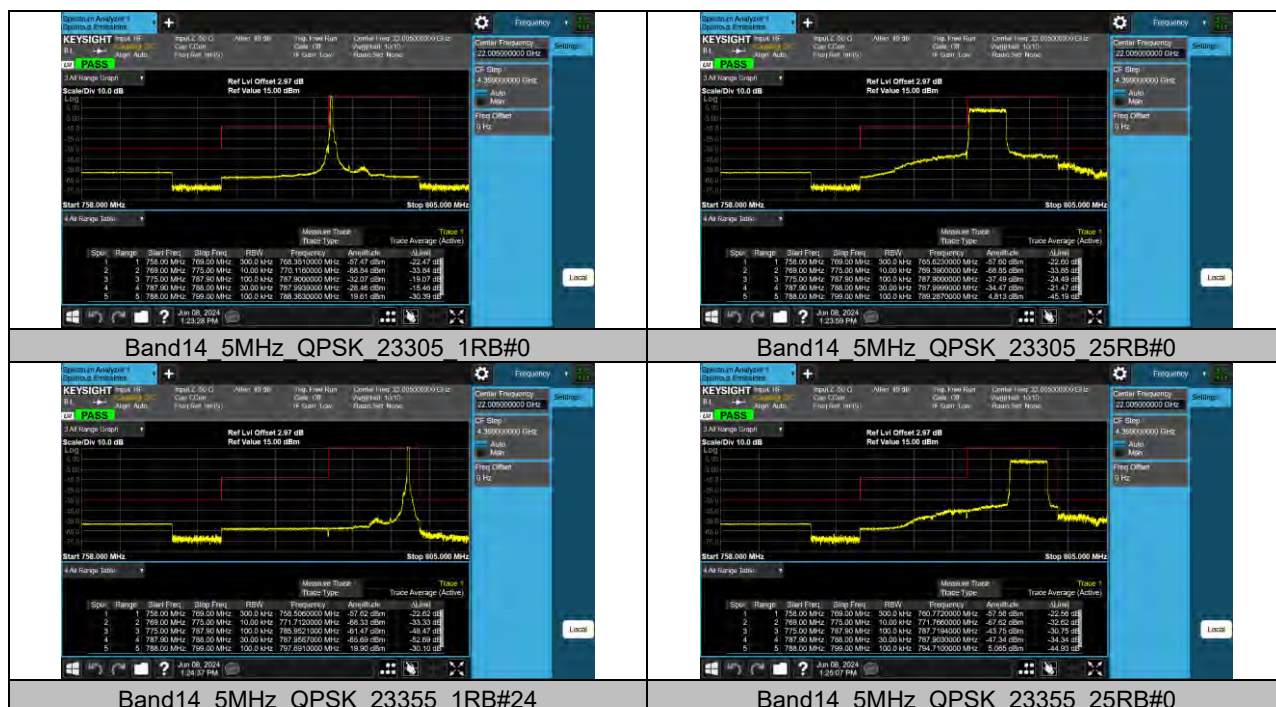
TEST GRAPHS



BAND EDGE TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	-28.46	PASS
Band14	5MHz	QPSK	23305	25RB#0	-47.19	PASS
Band14	5MHz	QPSK	23355	1RB#24	-57.62	PASS
Band14	5MHz	QPSK	23355	25RB#0	-47.49	PASS
Band14	5MHz	16QAM	23305	1RB#0	-28.03	PASS
Band14	5MHz	16QAM	23305	25RB#0	-48.29	PASS
Band14	5MHz	16QAM	23355	1RB#24	-57.48	PASS
Band14	5MHz	16QAM	23355	25RB#0	-44.92	PASS
Band14	10MHz	QPSK	23330	1RB#0	-57.44	PASS
Band14	10MHz	QPSK	23330	1RB#49	-57.32	PASS
Band14	10MHz	QPSK	23330	50RB#0	-45.10	PASS
Band14	10MHz	16QAM	23330	1RB#0	-57.46	PASS
Band14	10MHz	16QAM	23330	1RB#49	-57.46	PASS
Band14	10MHz	16QAM	23330	50RB#0	-46.42	PASS

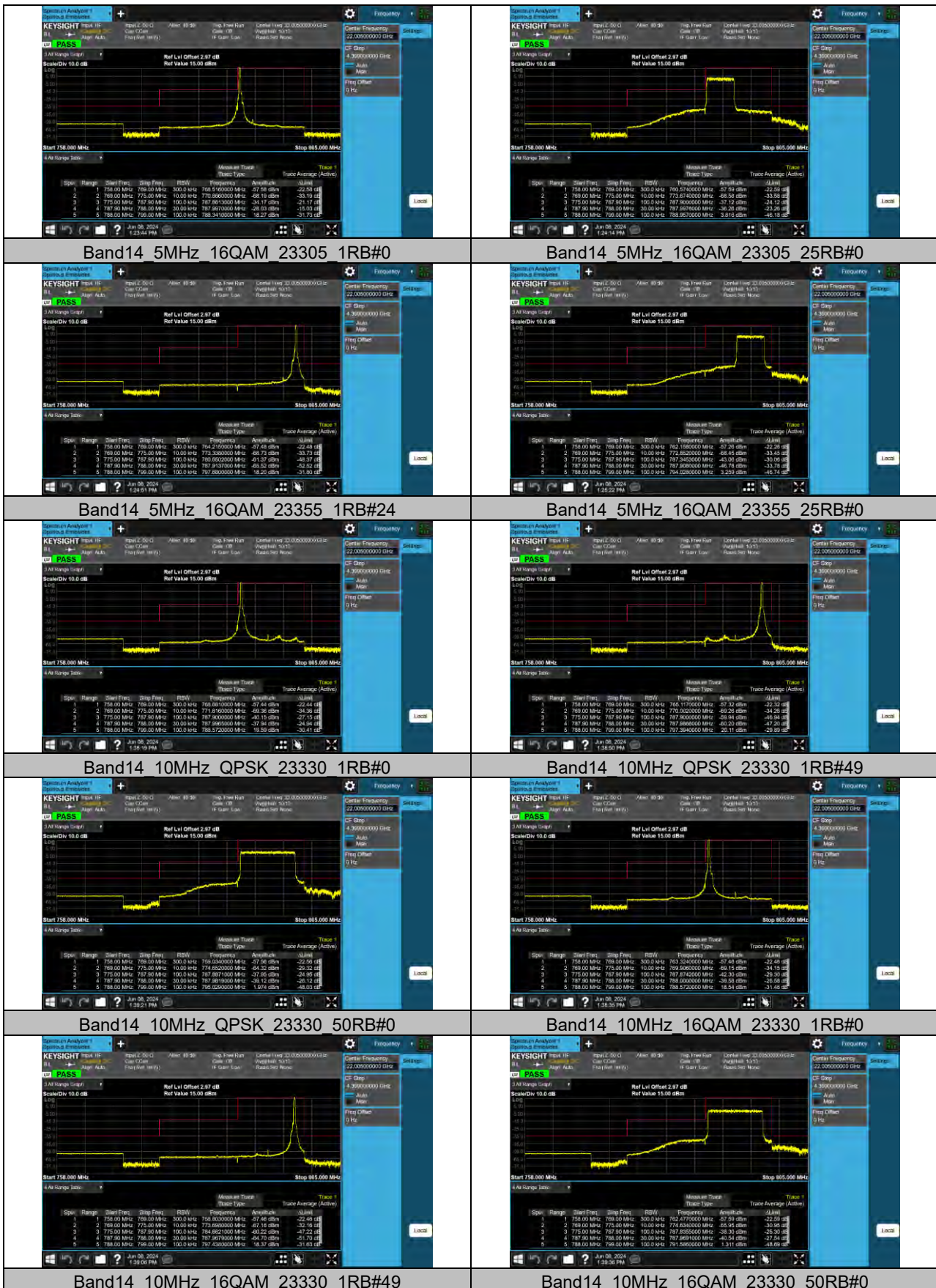
TEST GRAPHS





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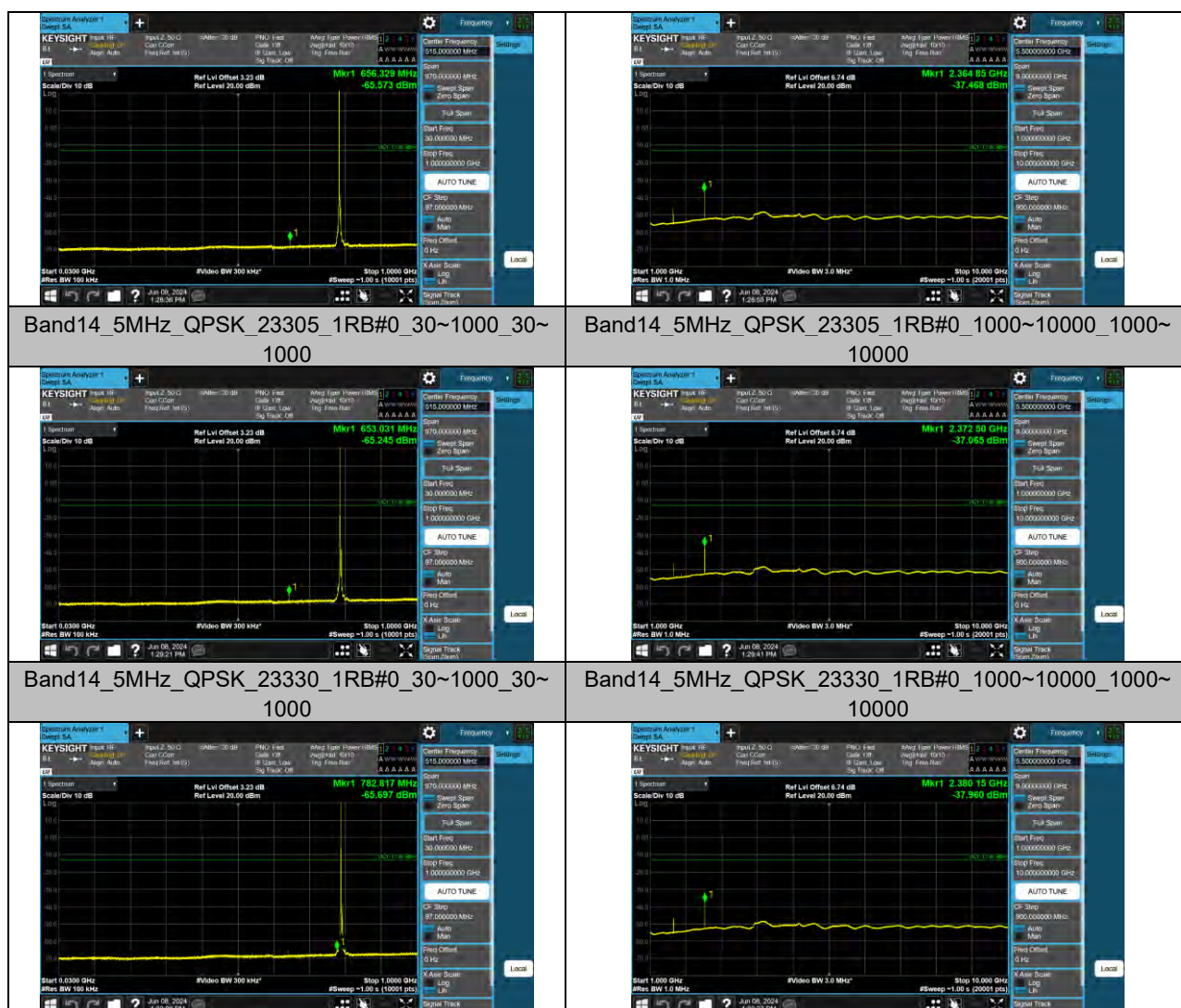
Reference No.: W7L-P24050018RF09



CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	30~1000	-65.57	PASS
Band14	5MHz	QPSK	23305	1RB#0	1000~10000	-37.47	PASS
Band14	5MHz	QPSK	23330	1RB#0	30~1000	-65.25	PASS
Band14	5MHz	QPSK	23330	1RB#0	1000~10000	-37.07	PASS
Band14	5MHz	QPSK	23355	1RB#0	30~1000	-65.70	PASS
Band14	5MHz	QPSK	23355	1RB#0	1000~10000	-37.96	PASS
Band14	10MHz	QPSK	23330	1RB#0	30~1000	-65.53	PASS
Band14	10MHz	QPSK	23330	1RB#0	1000~10000	-37.11	PASS

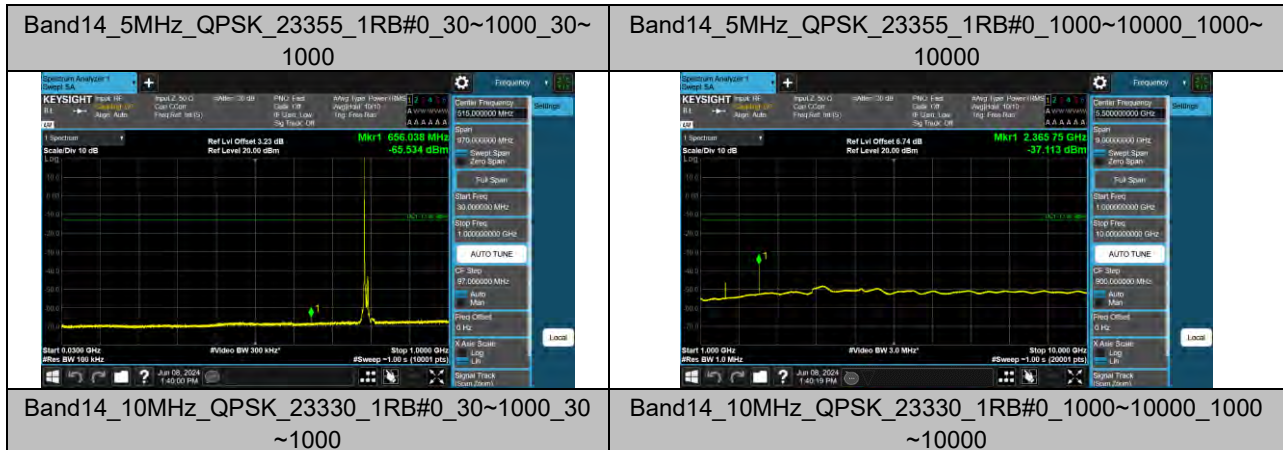
TEST GRAPHS





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Reference No.: W7L-P24050018RF09





Reference No.: W7L-P24050018RF09

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
Band1 4	5MHz	QPSK	23305	25RB #0	VN	NT	-1002.59	-1.280451	788.25458	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	VL	NT	909.82	1.161973	788.25589	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	VH	NT	-966.79	-1.234726	788.25507	---	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	VN	NT	973.24	1.227284	---	797.73709	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	VL	NT	-1083.05	-1.365763	---	797.73573	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	VH	NT	-1228.94	-1.549734	---	797.73485	788-798	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band1 4	5MHz	QPSK	23305	25RB #0	NV	-30	-986.18	-1.259488	788.25333	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	-20	990.06	1.264443	788.25355	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	-10	-980.29	-1.251969	788.25368	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	0	-1080.44	-1.379870	788.25326	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	10	997.48	1.273918	788.25426	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	20	-1014.53	-1.295696	788.257	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	30	910.50	1.162830	788.25481	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	40	825.22	1.053922	788.2568	---	788-798	PASS
Band1 4	5MHz	QPSK	23305	25RB #0	NV	50	-885.12	-1.130423	788.25337	---	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	-30	885.18	1.116242	---	797.73476	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	-20	-969.01	-1.221952	---	797.73479	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	-10	-1108.59	-1.397971	---	797.7359	788-798	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	0	1082.	1.364	---	797.7	788-798	PASS



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Reference No.: W7L-P24050018RF09

4				#0			33	853		3592	98	
Band1 4	5MHz	QPSK	23355	25RB #0	NV	10	1015. 46	1.280 534	---	797.7 353	788-7 98	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	20	-446.0 1	-0.562 432	---	797.7 3665	788-7 98	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	30	-427.2 8	-0.538 820	---	797.7 3656	788-7 98	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	40	-1268. 15	-1.599 176	---	797.7 3457	788-7 98	PASS
Band1 4	5MHz	QPSK	23355	25RB #0	NV	50	-1226. 08	-1.546 131	---	797.7 3509	788-7 98	PASS



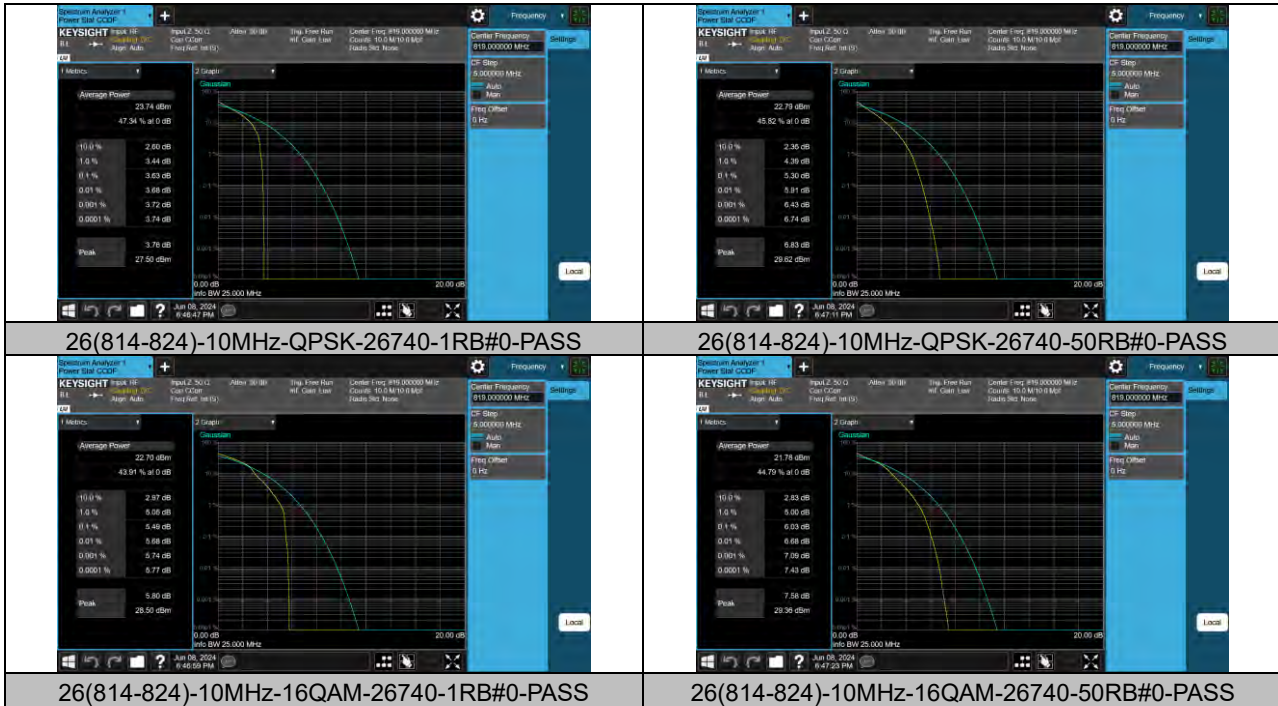
Reference No.: W7L-P24050018RF09

LTE BAND 26Q

PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
26(814-824)	10MHz	QPSK	26740	1RB#0	3.63	13	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	5.30	13	PASS
26(814-824)	10MHz	16QAM	26740	1RB#0	5.49	13	PASS
26(814-824)	10MHz	16QAM	26740	50RB#0	6.03	13	PASS

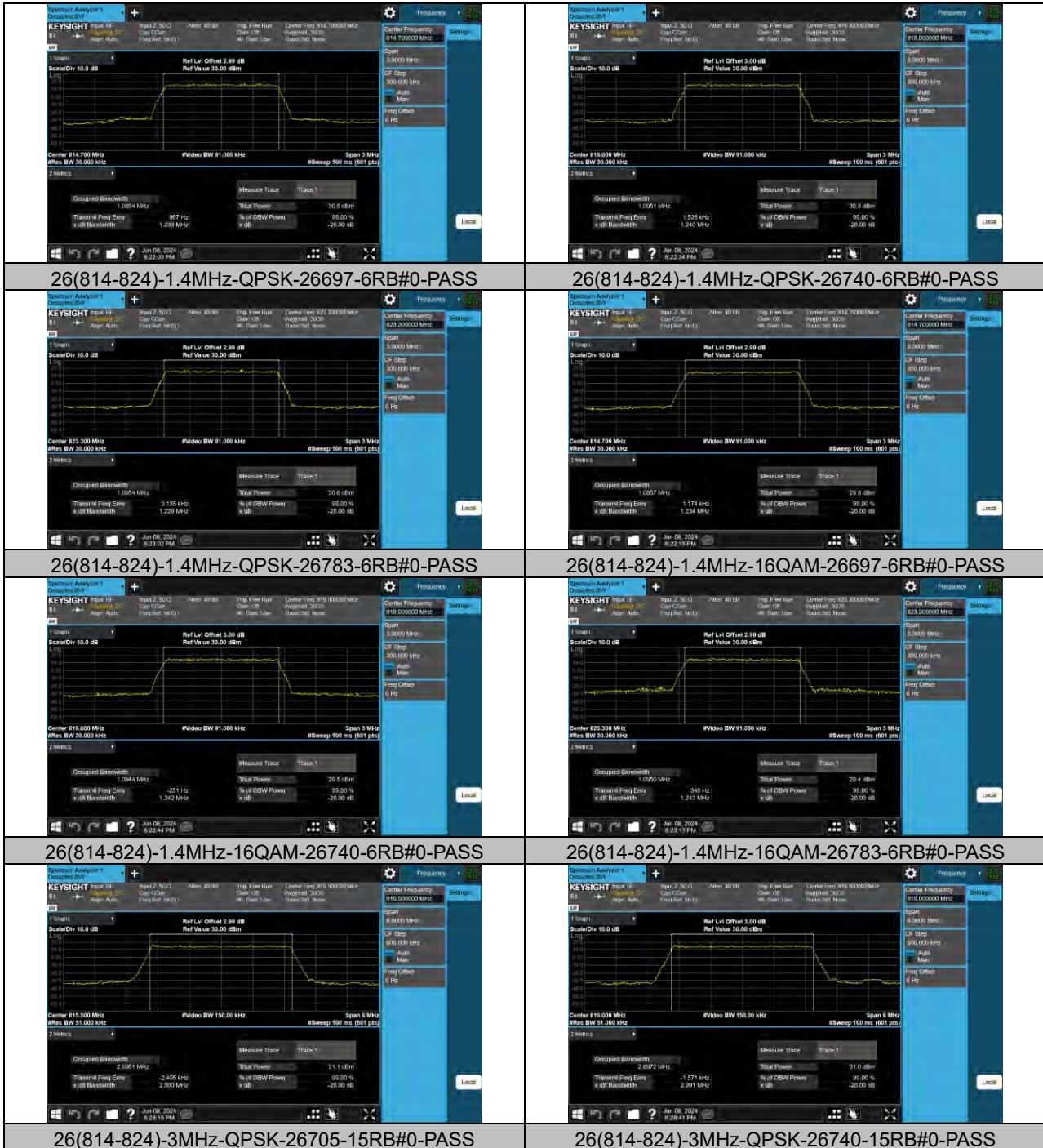
TEST GRAPHS

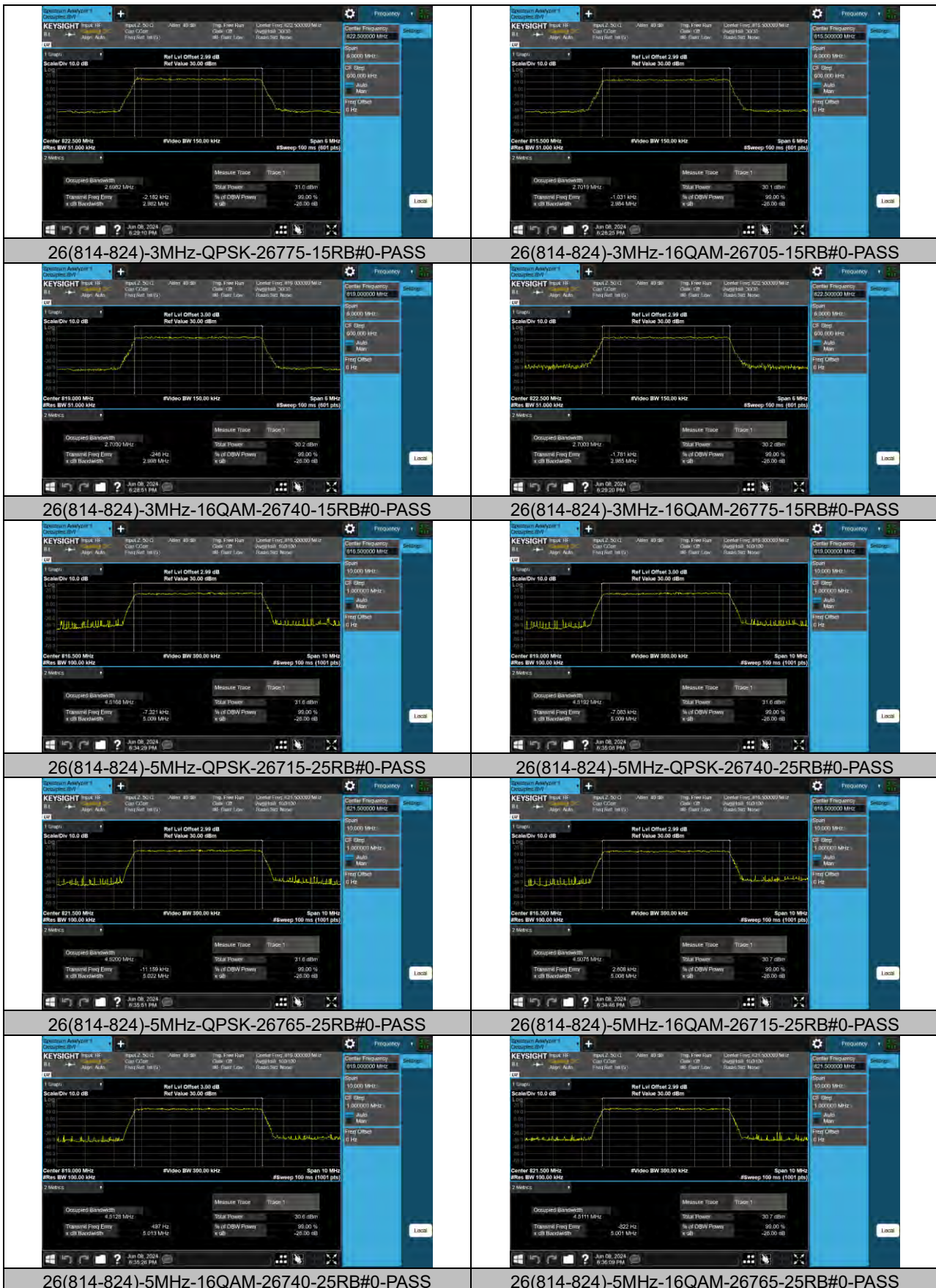


26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
26(814-824)	1.4MHz	QPSK	26697	6RB#0	1.0894	1.239	PASS
26(814-824)	1.4MHz	QPSK	26740	6RB#0	1.0951	1.240	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	1.0954	1.229	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	1.0857	1.234	PASS
26(814-824)	1.4MHz	16QAM	26740	6RB#0	1.0944	1.242	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	1.0950	1.243	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	2.6961	2.990	PASS
26(814-824)	3MHz	QPSK	26740	15RB#0	2.6972	2.991	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	2.6982	2.982	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	2.7019	2.984	PASS
26(814-824)	3MHz	16QAM	26740	15RB#0	2.7030	2.998	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	2.7003	2.985	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	4.5168	5.009	PASS
26(814-824)	5MHz	QPSK	26740	25RB#0	4.5192	5.009	PASS
26(814-824)	5MHz	QPSK	26765	25RB#0	4.5200	5.022	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	4.5075	5.008	PASS
26(814-824)	5MHz	16QAM	26740	25RB#0	4.5128	5.013	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	4.5111	5.001	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	8.9978	9.819	PASS
26(814-824)	10MHz	16QAM	26740	50RB#0	8.9727	9.807	PASS

TEST GRAPHS







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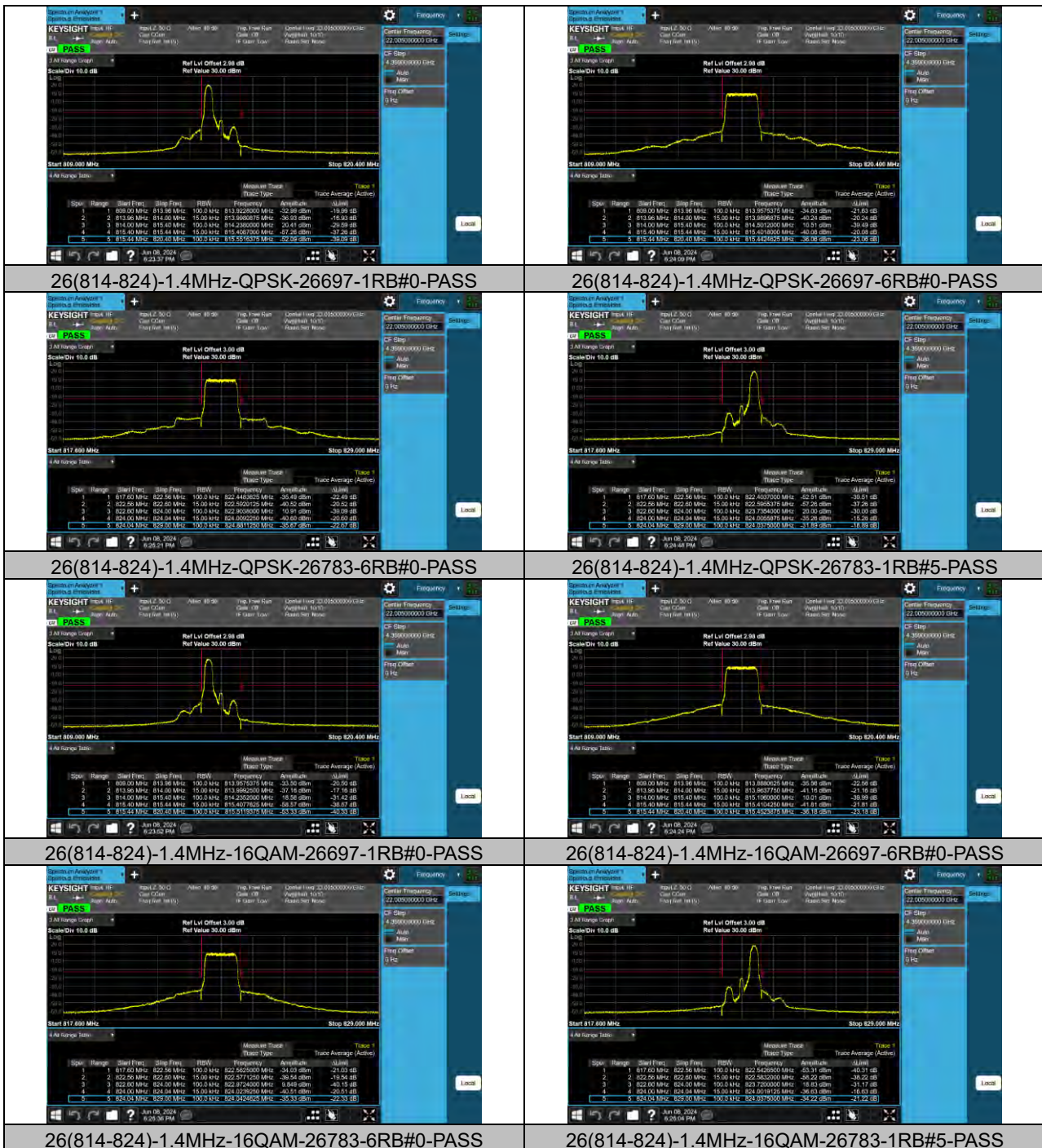
Reference No.: W7L-P24050018RF09



BAND EDGE TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
26(814-824)	1.4MHz	QPSK	26697	1RB#0	-36.93	PASS
26(814-824)	1.4MHz	QPSK	26697	6RB#0	-40.08	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	-40.52	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#5	-31.89	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#0	-37.16	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	-41.16	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	-34.03	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#5	-34.22	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	-23.81	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	-30.52	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	-29.52	PASS
26(814-824)	3MHz	QPSK	26775	1RB#14	-22.58	PASS
26(814-824)	3MHz	16QAM	26705	1RB#0	-24.72	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	-30.90	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	-30.55	PASS
26(814-824)	3MHz	16QAM	26775	1RB#14	-25.31	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	-27.99	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	-34.59	PASS
26(814-824)	5MHz	QPSK	26765	25RB#0	-34.85	PASS
26(814-824)	5MHz	QPSK	26765	1RB#24	-26.88	PASS
26(814-824)	5MHz	16QAM	26715	1RB#0	-30.52	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	-35.22	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	-36.21	PASS
26(814-824)	5MHz	16QAM	26765	1RB#24	-30.54	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	-36.71	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	-36.07	PASS
26(814-824)	10MHz	QPSK	26740	1RB#49	-37.22	PASS
26(814-824)	10MHz	16QAM	26740	1RB#0	-38.29	PASS
26(814-824)	10MHz	16QAM	26740	50RB#0	-36.99	PASS
26(814-824)	10MHz	16QAM	26740	1RB#49	-39.22	PASS

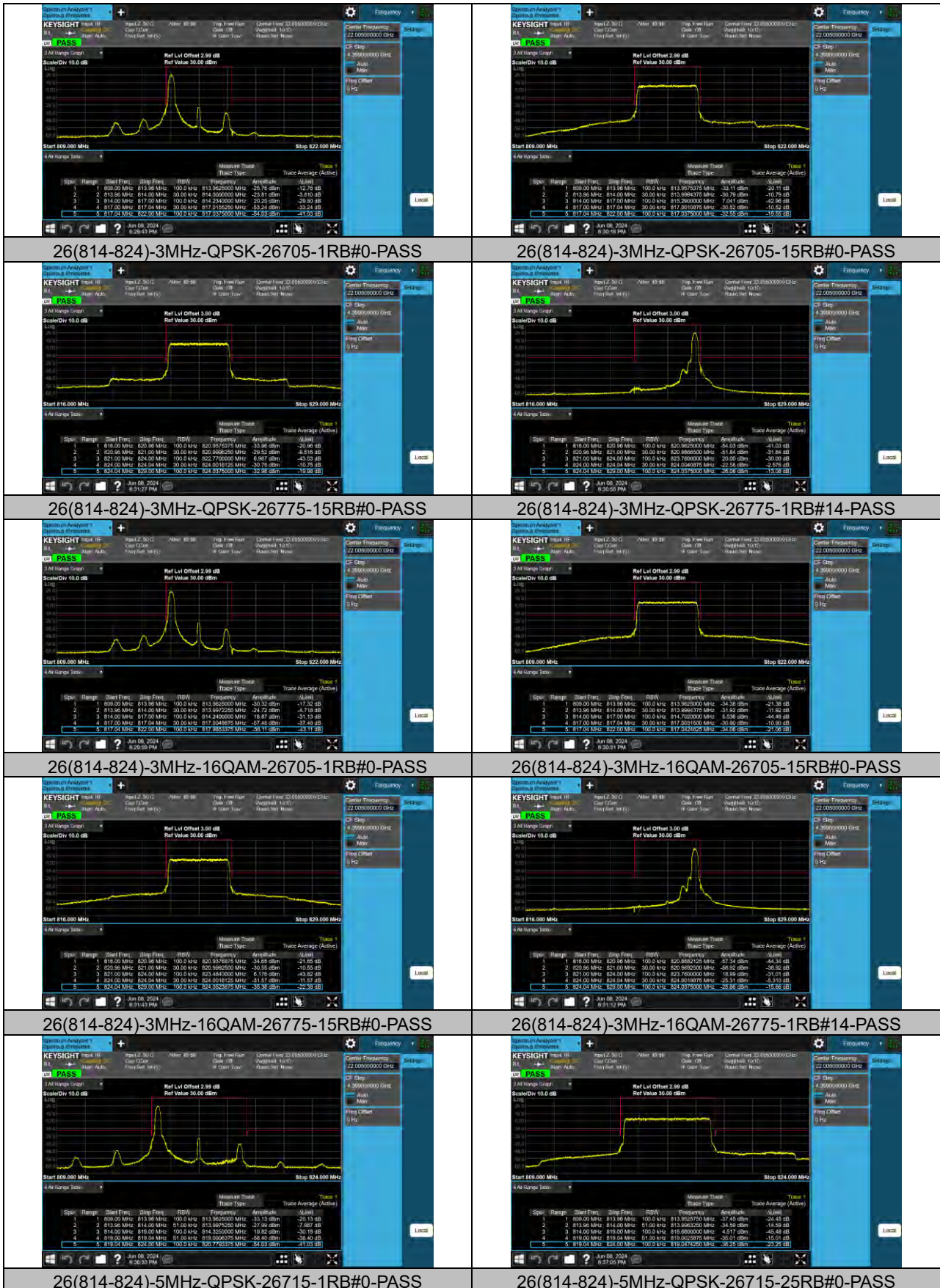
TEST GRAPHS





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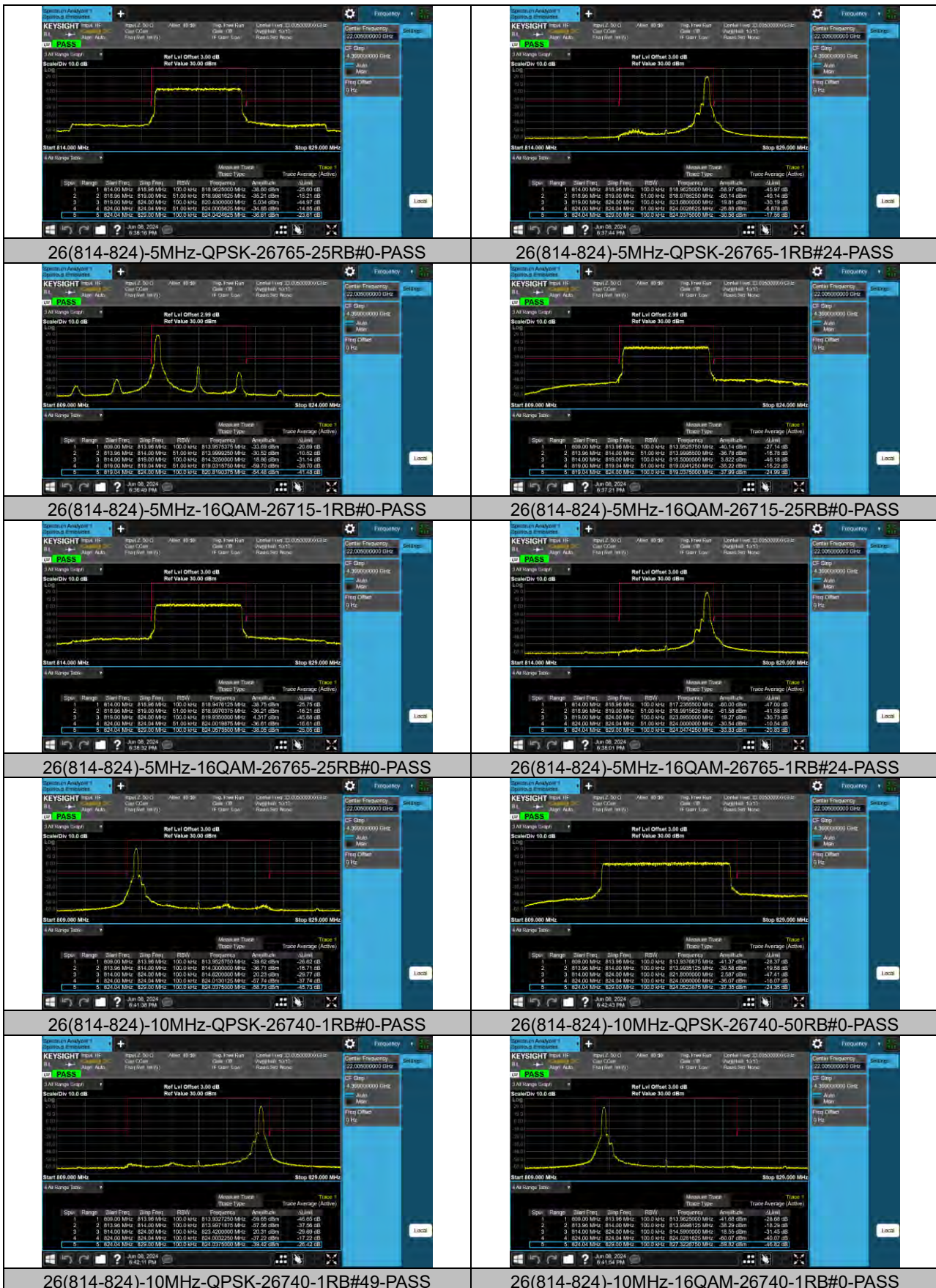
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Reference No.: W7L-P24050018RF09





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Reference No.: W7L-P24050018RF09



26(814-824)-10MHz-16QAM-26740-50RB#0-PASS

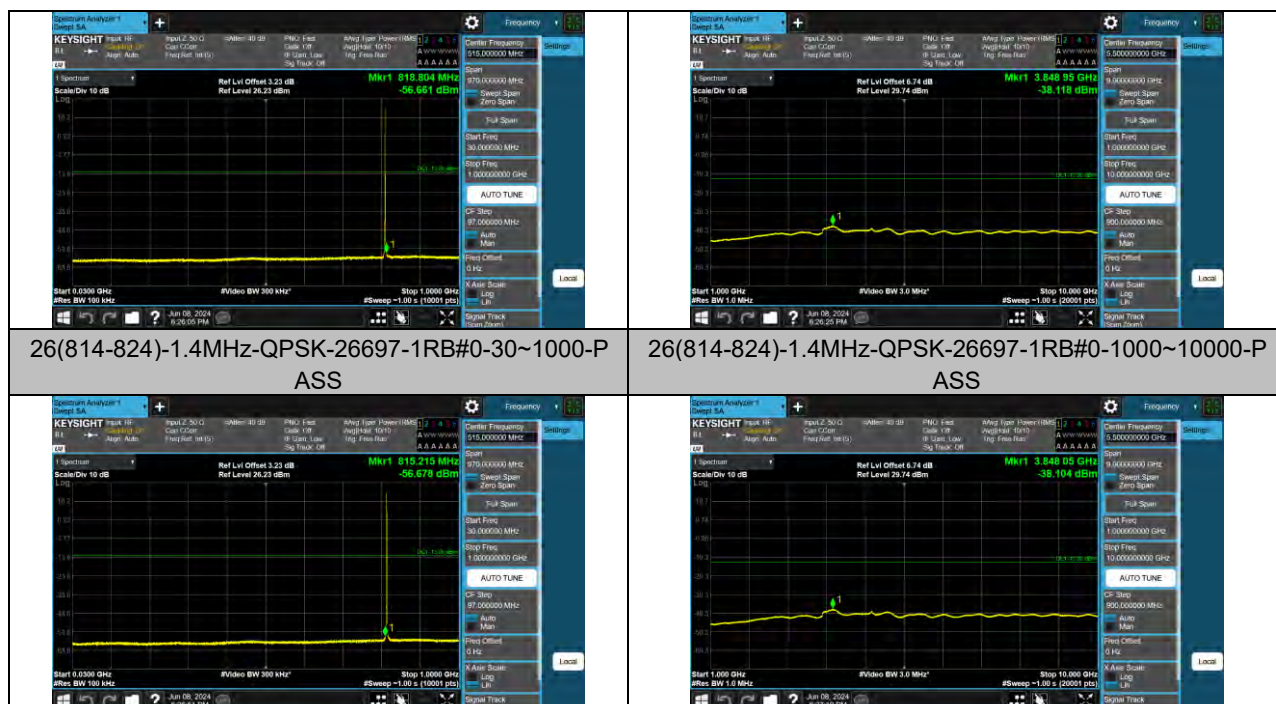


26(814-824)-10MHz-16QAM-26740-1RB#49-PASS

CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
26(814-824)	1.4MHz	QPSK	26697	1RB#0	30~1000	-56.66	PASS
26(814-824)	1.4MHz	QPSK	26697	1RB#0	1000~10000	-38.12	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#0	30~1000	-56.68	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#0	1000~10000	-38.10	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#0	30~1000	-56.19	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#0	1000~10000	-38.16	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	30~1000	-57.27	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	1000~10000	-38.12	PASS
26(814-824)	3MHz	QPSK	26740	1RB#0	30~1000	-57.26	PASS
26(814-824)	3MHz	QPSK	26740	1RB#0	1000~10000	-38.14	PASS
26(814-824)	3MHz	QPSK	26775	1RB#0	30~1000	-57.29	PASS
26(814-824)	3MHz	QPSK	26775	1RB#0	1000~10000	-37.93	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	30~1000	-57.17	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	1000~10000	-38.09	PASS
26(814-824)	5MHz	QPSK	26740	1RB#0	30~1000	-57.33	PASS
26(814-824)	5MHz	QPSK	26740	1RB#0	1000~10000	-37.98	PASS
26(814-824)	5MHz	QPSK	26765	1RB#0	30~1000	-57.40	PASS
26(814-824)	5MHz	QPSK	26765	1RB#0	1000~10000	-38.09	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	30~1000	-57.09	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	1000~10000	-38.14	PASS

TEST GRAPHS





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VERITAS

Reference No.: W7L-P24050018RF09

26(814-824)-1.4MHz-QPSK-26740-1RB#0-30~1000-P
ASS



26(814-824)-1.4MHz-QPSK-26740-1RB#0-1000~10000-P
ASS



26(814-824)-1.4MHz-QPSK-26783-1RB#0-30~1000-P
ASS



26(814-824)-1.4MHz-QPSK-26783-1RB#0-1000~10000-P
ASS



26(814-824)-3MHz-QPSK-26705-1RB#0-30~1000-PAS
S



26(814-824)-3MHz-QPSK-26705-1RB#0-1000~10000-PA
SS



26(814-824)-3MHz-QPSK-26740-1RB#0-30~1000-PAS
S



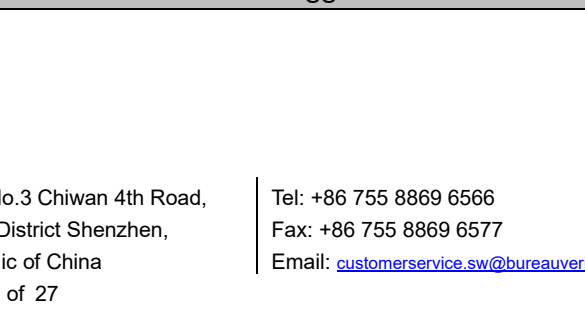
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26(814-824)-3MHz-QPSK-26775-1RB#0-30~1000-PAS
S



26(814-824)-3MHz-QPSK-26775-1RB#0-1000~10000-PA
SS





Reference No.: W7L-P24050018RF09



26(814-824)-5MHz-QPSK-26715-1RB#0-30~1000-PAS
S



26(814-824)-5MHz-QPSK-26715-1RB#0-1000~10000-PA
SS



26(814-824)-5MHz-QPSK-26740-1RB#0-30~1000-PAS
S



26(814-824)-5MHz-QPSK-26740-1RB#0-1000~10000-PA
SS



26(814-824)-5MHz-QPSK-26765-1RB#0-30~1000-PAS
S



26(814-824)-5MHz-QPSK-26765-1RB#0-1000~10000-PA
SS



26(814-824)-10MHz-QPSK-26740-1RB#0-30~1000-PA
SS



26(814-824)-10MHz-QPSK-26740-1RB#0-1000~10000-PA
SS



Reference No.: W7L-P24050018RF09

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
26(814-824)	5MHz	QPSK	26715	25RB #0	VN	NT	800.14	0.979968	814.25881	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	VL	NT	-823.73	-1.008849	814.25816	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	VH	NT	685.42	0.839458	814.25821	---	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	VN	NT	1120.53	1.364003	---	823.73295	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	VL	NT	1178.42	1.434473	---	823.73145	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	VH	NT	-561.61	-0.683643	---	823.73234	814-824	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	-30	-977.18	-1.196791	814.25775	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	-20	1026.52	1.257214	814.25717	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	-10	-1105.91	-1.354456	814.2612	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	0	-752.48	-0.921589	814.26015	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	10	674.48	0.826057	814.25736	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	20	-618.05	-0.756945	814.25783	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	30	544.81	0.667255	814.25931	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	40	413.77	0.506758	814.26033	---	814-824	PASS
26(814-824)	5MHz	QPSK	26715	25RB #0	NV	50	304.22	0.372590	814.2597	---	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	NV	-30	879.75	1.070912	---	823.73222	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	NV	-20	-1134.17	-1.380614	---	823.73228	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	NV	-10	-1180.84	-1.437414	---	823.73467	814-824	PASS
26(814-824)	5MHz	QPSK	26765	25RB #0	NV	0	942.8	1.147	---	823.7	814-824	PASS



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VERITAS

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4-824)				#0			6	734		3219	24	
26(81 4-824)	5MHz	QPSK	26765	25RB #0	NV	10	886.0 7	1.078 603	---	823.7 3068	814-8 24	PASS
26(81 4-824)	5MHz	QPSK	26765	25RB #0	NV	20	-449.0 8	-0.546 663	---	823.7 3268	814-8 24	PASS
26(81 4-824)	5MHz	QPSK	26765	25RB #0	NV	30	-463.5 6	-0.564 282	---	823.7 3195	814-8 24	PASS
26(81 4-824)	5MHz	QPSK	26765	25RB #0	NV	40	-911.7 9	-1.109 911	---	823.7 3399	814-8 24	PASS
26(81 4-824)	5MHz	QPSK	26765	25RB #0	NV	50	-1078. 66	-1.313 037	---	823.7 3236	814-8 24	PASS

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