



Appendix E: Test Data for E-UTRA Band 5

Product Name: TRACKER 4G LTE CAT 1

Test Model: SF iRF WG GL

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





E.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.78	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.61	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.88	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.65	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.70	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.00	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.73	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.98	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.72	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.97	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.75	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.87	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.99	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.54	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.55	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.50	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.61	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.59	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.48	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.72	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.84	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.72	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.13	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.77	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.03	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.96	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.66	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.42	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.20	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.11	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.90	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.44	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.20	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.40	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.92	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.28	PASS



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Band5	1.4MHz	16QAM	20643	3RB#1	23.07	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.77	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.55	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.74	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.33	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.52	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.89	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.52	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.91	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.53	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.95	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.39	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.21	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.89	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.31	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.55	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.28	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.62	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.04	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.39	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.24	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.65	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.34	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.74	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.05	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.67	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.56	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.69	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.24	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.73	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.36	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.67	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.98	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.41	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.57	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.32	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.56	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.33	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.14	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.71	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.31	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.75	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.29	PASS



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Band5	3MHz	QPSK	20635	8RB#7	22.61	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.20	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.62	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.21	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.54	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.31	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.52	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.34	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.65	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.38	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.70	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.07	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.70	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.07	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.59	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.02	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.54	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.14	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.33	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.49	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.37	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.43	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.48	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.61	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.34	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.63	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.13	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.76	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.06	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.70	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.94	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.51	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.98	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.46	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.92	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.94	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.52	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.89	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.34	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.80	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.38	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.76	PASS



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Band5	5MHz	16QAM	20625	12RB#13	22.15	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.82	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.31	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.48	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.99	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.43	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.97	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.98	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.64	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.07	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.63	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.07	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.49	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.98	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.50	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.06	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.53	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.08	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.59	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.15	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.63	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.14	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.73	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.18	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.69	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.19	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.66	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.23	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.73	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.20	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.58	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.68	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.59	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.57	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.13	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.00	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.67	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.20	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.71	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.22	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.74	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.30	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.78	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.26	PASS





E.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.96	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.35	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.74	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.35	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.70	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.55	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.55	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.13	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.84	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.57	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.28	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.04	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.05	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.79	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.85	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.54	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.78	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.63	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.26	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.73	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	3.66	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.71	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.15	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.88	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.81	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.42	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.98	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.08	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.64	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.23	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.15	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.62	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.29	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.88	13	PASS



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Band5	10MHz	QPSK	20450	1RB#0	5.18	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.71	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.69	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.35	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.82	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.31	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.67	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.32	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.79	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.94	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.37	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.01	13	PASS



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Test Graphs



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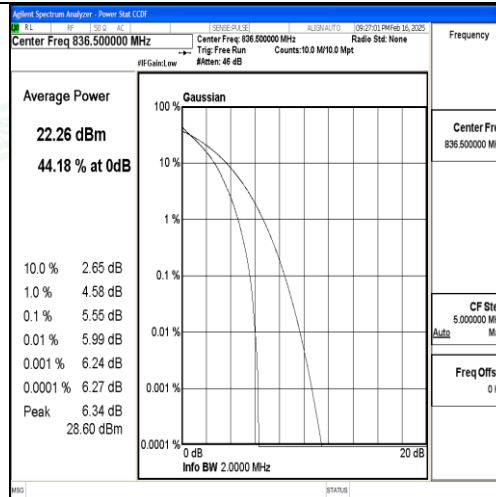


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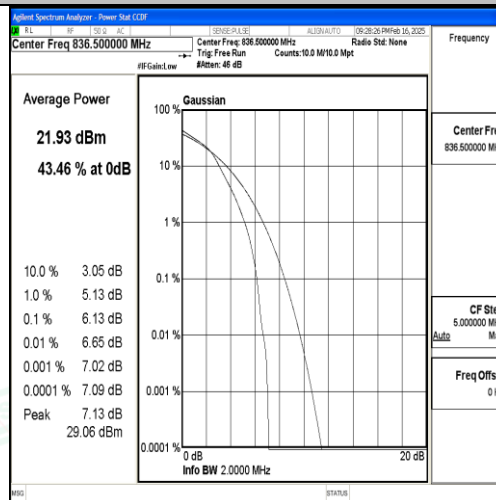
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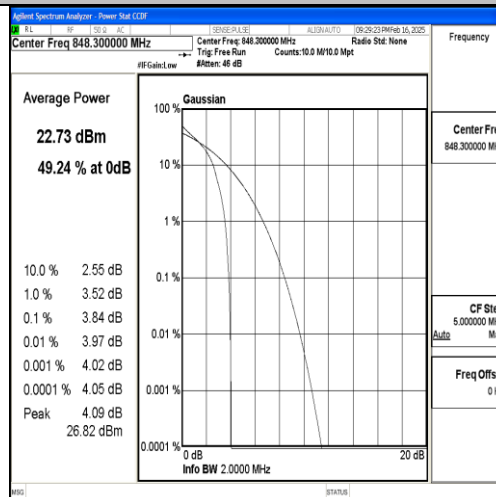
Scan code to check authenticity



Band5-1.4MHz-QPSK-20525-6RB#0-PASS



Band5-1.4MHz-16QAM-20525-6RB#0-PASS



Band5-1.4MHz-QPSK-20643-1RB#0-PASS



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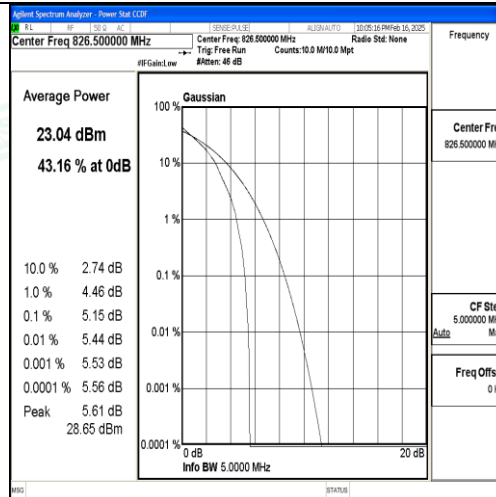


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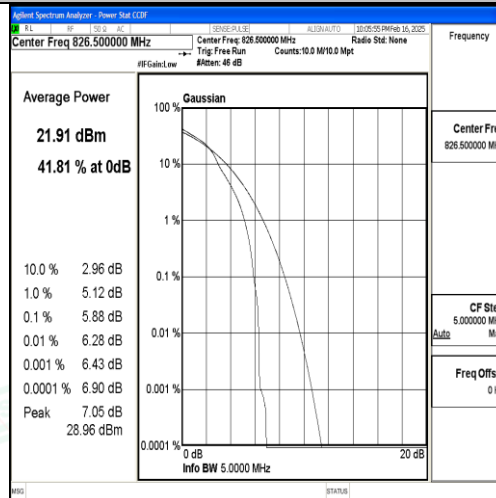
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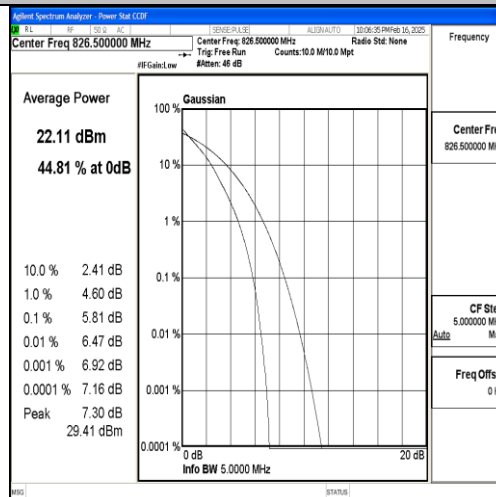
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Band5-5MHz-QPSK-20425-1RB#0-PASS



Band5-5MHz-16QAM-20425-1RB#0-PASS



Band5-5MHz-QPSK-20425-25RB#0-PASS



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E.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0917	1.311	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0998	1.279	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1009	1.283	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0993	1.368	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0985	1.263	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0933	1.362	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7717	3.421	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7557	3.244	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7588	3.428	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7587	3.615	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7512	3.265	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7688	3.522	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5168	5.152	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5217	5.237	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5210	5.432	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5397	5.281	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5307	5.458	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5477	5.432	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9664	10.03	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9804	10.12	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0115	10.16	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0311	10.14	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9712	9.925	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9915	9.923	PASS





Test Graphs



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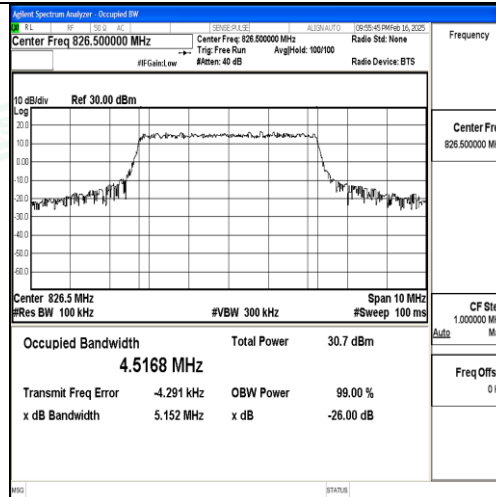


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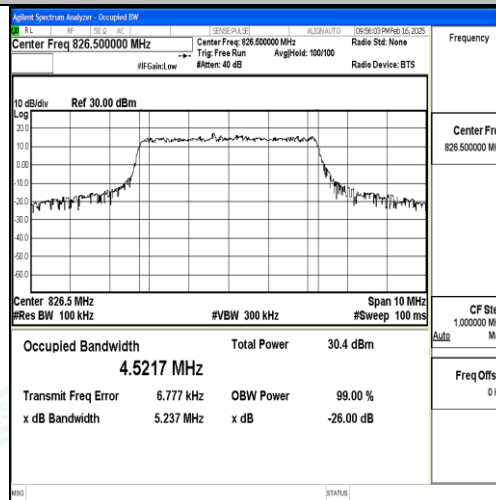
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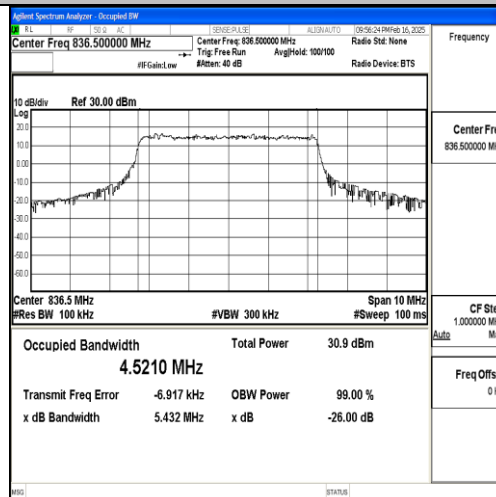
Scan code to check authenticity



Band5-5MHz-QPSK-20425-25RB#0-PASS



Band5-5MHz-16QAM-20425-25RB#0-PASS



Band5-5MHz-QPSK-20525-25RB#0-PASS



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E.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	823.94	-16.16	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	824.00	-17.41	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	849.04	-16.60	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	849.10	-15.64	PASS
Band5	3MHz	QPSK	20415	15RB#0	823.99	-22.65	PASS_Final1
Band5	3MHz	QPSK	20635	15RB#0	849.02	-23.23	PASS_Final1
Band5	3MHz	QPSK	20415	15RB#0	824.00	-21.67	PASS
Band5	3MHz	16QAM	20415	15RB#0	824.00	-21.76	PASS
Band5	3MHz	QPSK	20635	15RB#0	849.00	-23.60	PASS
Band5	5MHz	QPSK	20425	25RB#0	823.95	-29.23	PASS_Final1
Band5	5MHz	QPSK	20625	25RB#0	849.03	-29.27	PASS_Final1
Band5	5MHz	16QAM	20625	25RB#0	849.03	-28.24	PASS_Final1
Band5	3MHz	16QAM	20635	15RB#0	849.02	-24.89	PASS_Final1
Band5	5MHz	QPSK	20425	25RB#0	823.99	-17.80	PASS
Band5	5MHz	16QAM	20425	25RB#0	824.00	-16.98	PASS
Band5	5MHz	QPSK	20625	25RB#0	849.38	-17.07	PASS
Band5	5MHz	16QAM	20625	25RB#0	849.02	-18.79	PASS
Band5	3MHz	16QAM	20635	15RB#0	849.00	-24.58	PASS
Band5	10MHz	QPSK	20450	50RB#0	823.99	-14.81	PASS
Band5	10MHz	16QAM	20450	50RB#0	823.98	-16.99	PASS
Band5	10MHz	QPSK	20600	50RB#0	849.11	-14.31	PASS
Band5	10MHz	16QAM	20600	50RB#0	849.03	-13.03	PASS
Band5	3MHz	16QAM	20415	15RB#0	823.99	-23.17	PASS_Final1



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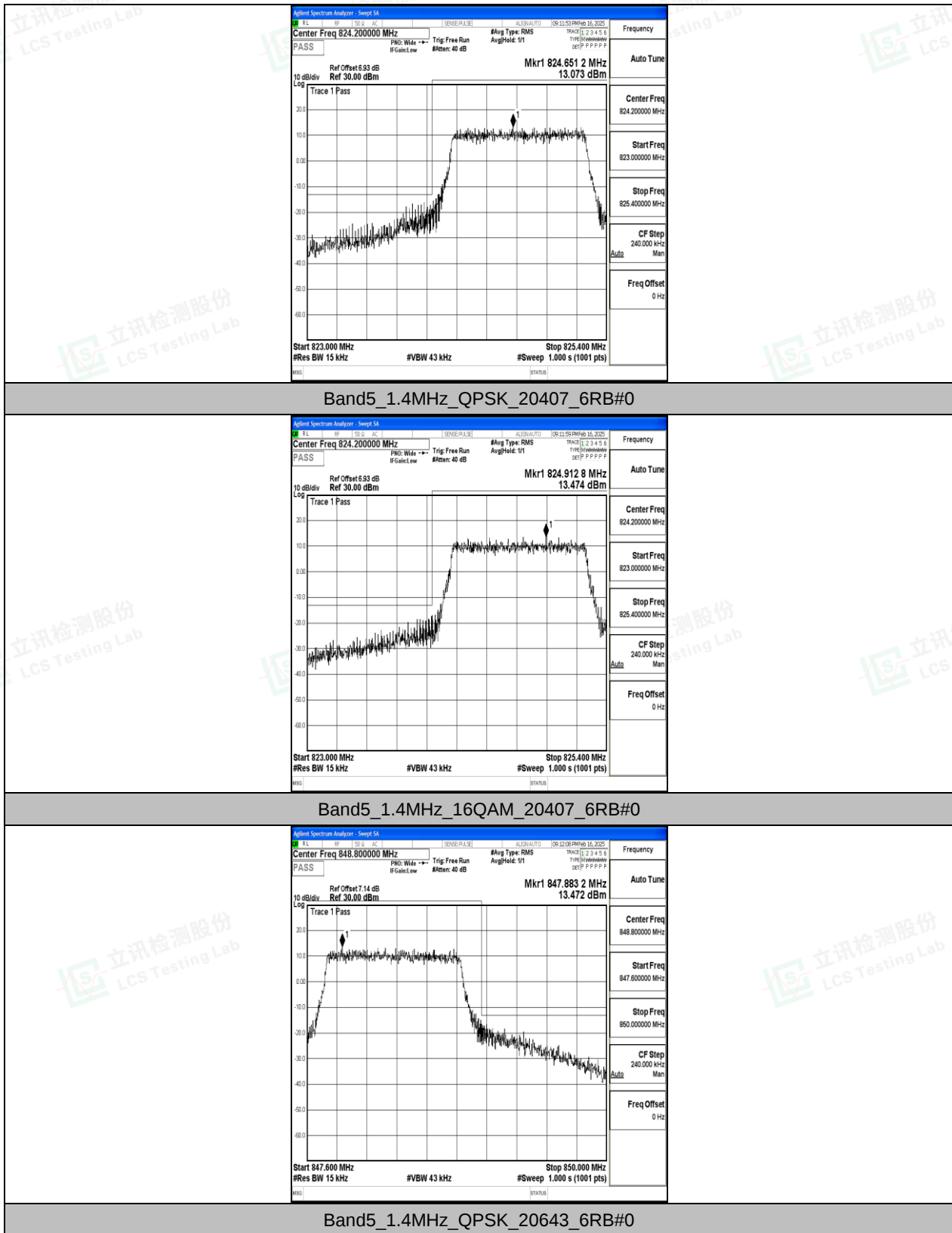
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Test Graphs

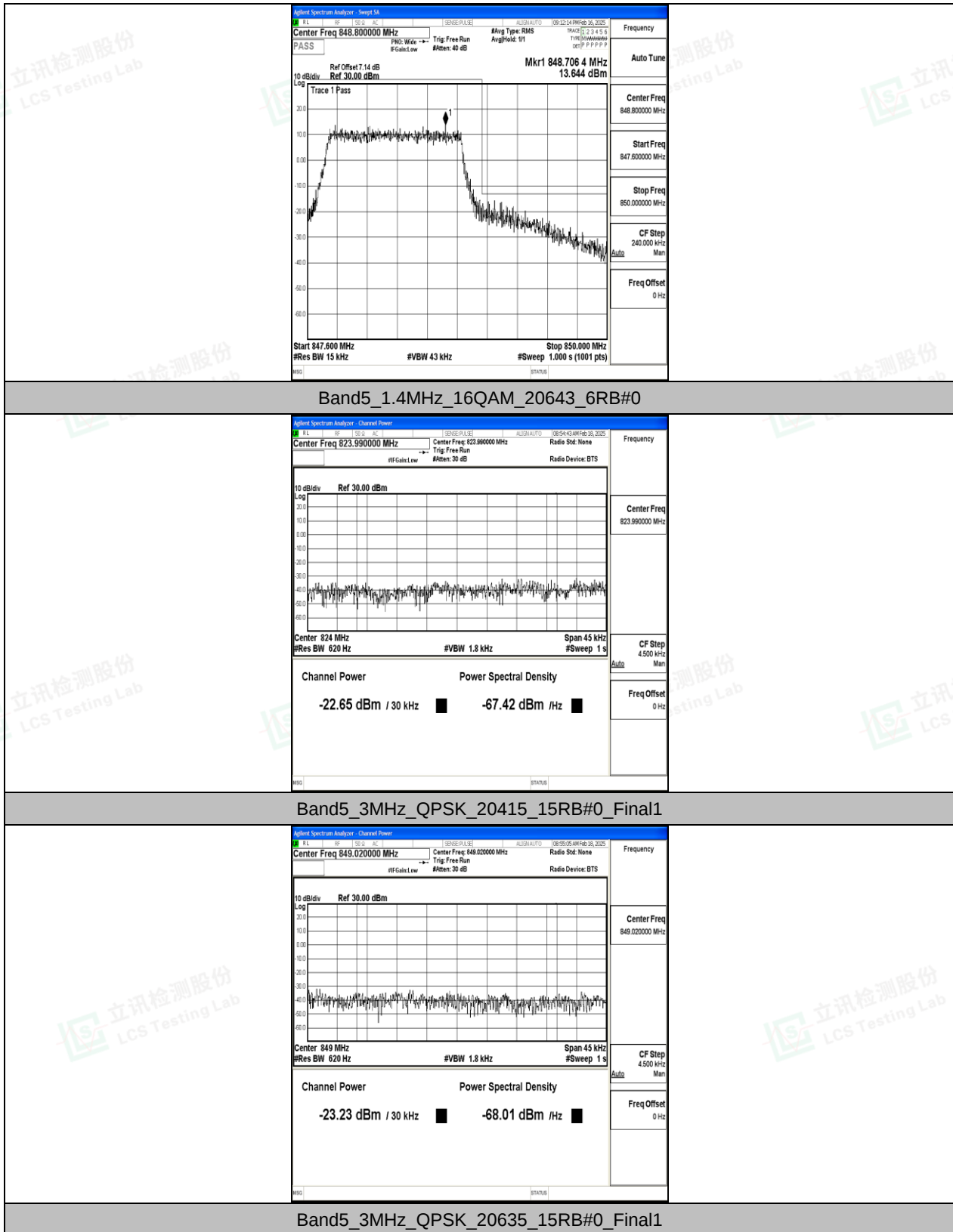


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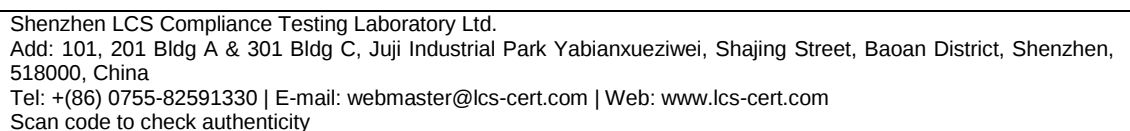


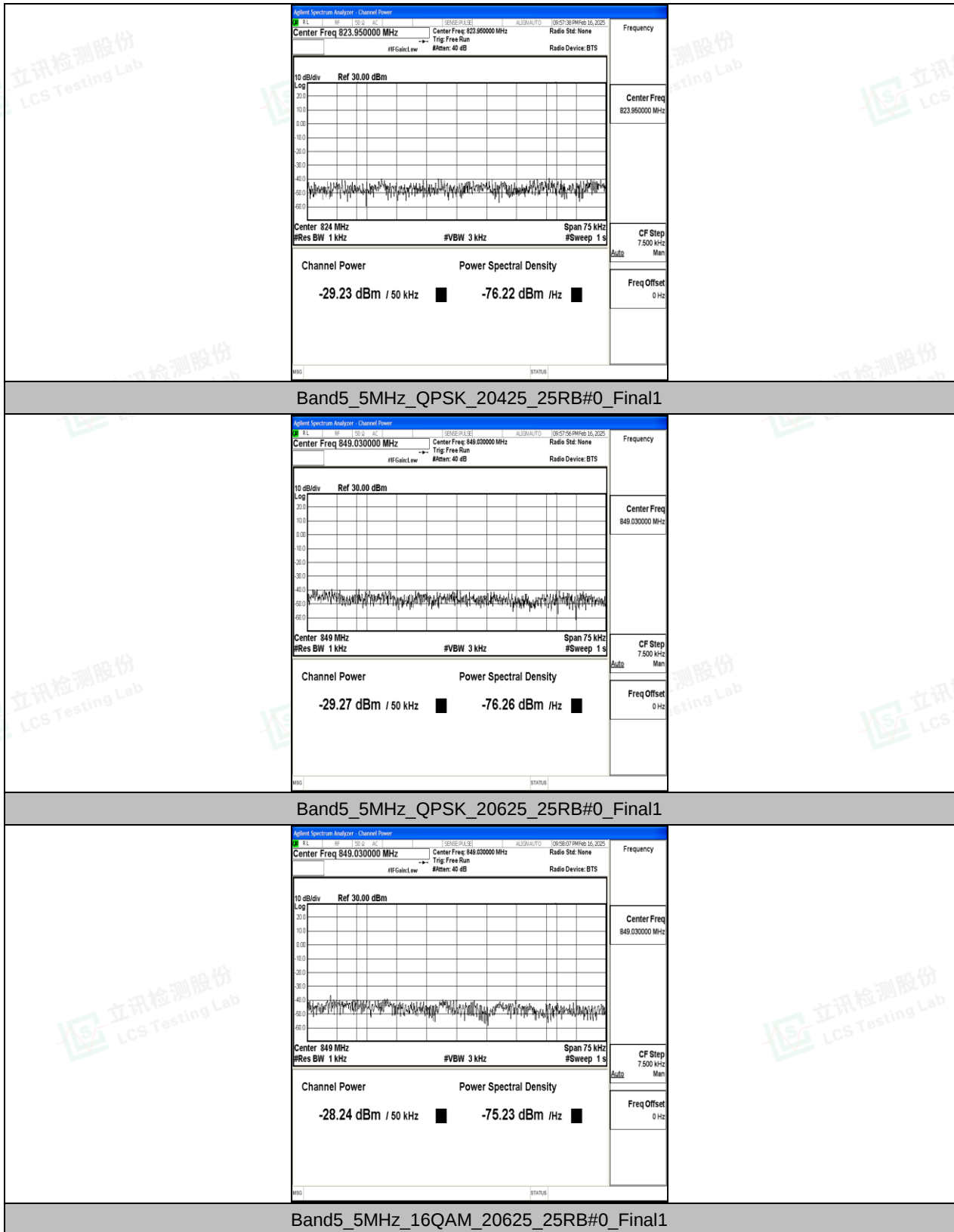
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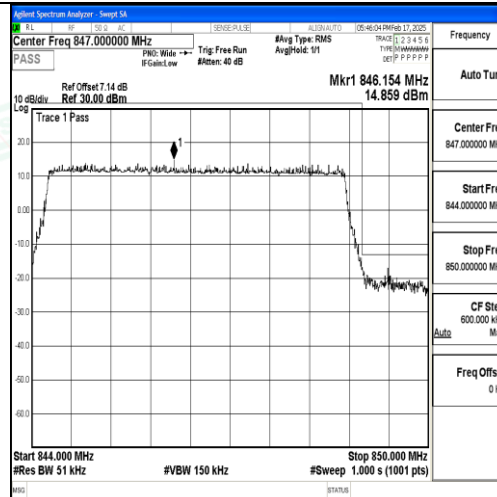


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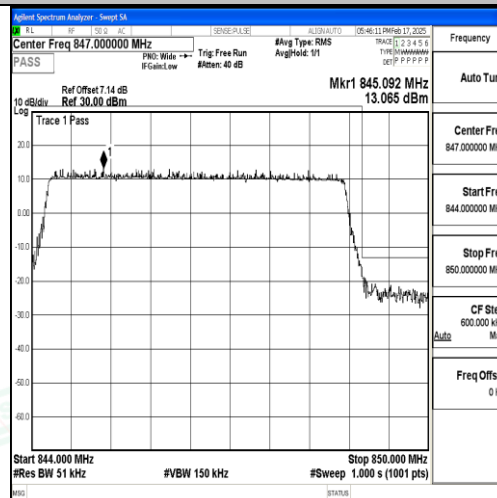
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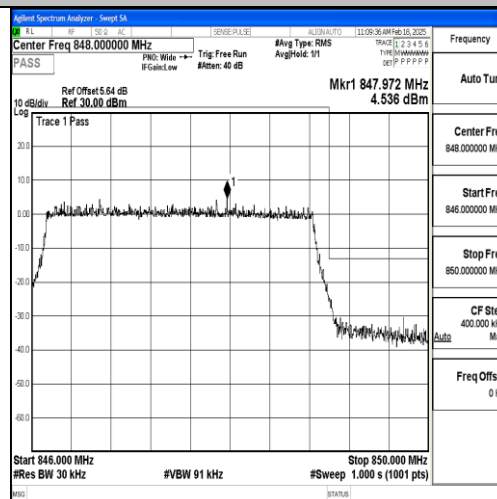
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Band5_5MHz_QPSK_20625_25RB#0



Band5_5MHz_16QAM_20625_25RB#0



Band5_3MHz_16QAM_20635_15RB#0



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