



Appendix Q: Test Data for E-UTRA Band 38

Product Name: TD-LTE digital mobile phone

Test Model: S26 Pro

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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Q.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.23	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.86	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.16	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.92	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.13	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.72	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.27	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.54	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.27	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.54	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.22	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.46	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.26	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.54	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.81	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.38	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.86	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.52	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.89	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.54	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.91	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.21	PASS
Band38	5MHz	QPSK	38000	12RB#6	20.92	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.15	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.89	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.16	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.92	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.23	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.75	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.50	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.77	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.06	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.76	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.88	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.04	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.88	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.04	PASS



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Band38	5MHz	QPSK	38225	12RB#13	20.83	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.97	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.87	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.05	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.67	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.21	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.52	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.09	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.40	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.96	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.53	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.72	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.53	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.72	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.49	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.66	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.41	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.69	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.08	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.45	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.05	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.43	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.14	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.42	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.20	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.67	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.21	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.67	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.24	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.71	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.15	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.45	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.22	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.82	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.21	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.75	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.09	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.68	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.05	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.33	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.05	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.34	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.12	PASS



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Band38	10MHz	16QAM	38200	25RB#25	20.24	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.12	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.35	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.58	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.39	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.41	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.08	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.31	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.00	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.54	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.54	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.53	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.53	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.53	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.53	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.53	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.70	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.41	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.03	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.51	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.93	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.47	PASS
Band38	15MHz	16QAM	38000	1RB#74	20.57	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.21	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.21	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.21	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.21	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.20	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.21	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.20	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.50	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.23	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.71	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.27	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.81	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.24	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.62	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.12	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.12	PASS
Band38	15MHz	QPSK	38175	38RB#18	21.12	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.12	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.12	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.11	PASS



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Band38	15MHz	QPSK	38175	75RB#0	21.12	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.40	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.32	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.76	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.18	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.54	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.03	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.43	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.63	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.01	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.64	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.01	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.41	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.76	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.55	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.68	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.29	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.60	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.12	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.50	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.25	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.43	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.35	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.61	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.26	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.61	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.32	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.61	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.37	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.53	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.02	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.96	PASS
Band38	20MHz	QPSK	38150	1RB#49	21.91	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.89	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.81	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.80	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.06	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.55	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.06	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.55	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.18	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.41	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.10	PASS



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Band38	20MHz	16QAM	38150	100RB#0	20.44	PASS
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Q.2 Peak-to-Average Ratio (CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.57	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.78	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.14	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.63	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.86	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.27	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.07	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.70	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.28	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.49	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.05	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.41	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.25	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	8.72	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.04	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.82	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.50	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.03	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.09	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.62	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.16	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.84	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.92	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.69	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.75	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.82	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.29	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.78	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.28	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	8.99	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.39	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.85	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.08	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.16	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.20	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.82	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.27	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	8.83	13	PASS



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Band38	20MHz	QPSK	37850	100RB#0	9.21	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	10.09	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	9.00	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.58	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.97	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.68	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.37	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	8.99	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.93	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.25	13	PASS



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Test Graphs



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Q.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5035	5.168	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5154	5.323	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5105	5.215	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5185	5.362	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4907	5.197	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5004	5.250	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.0079	10.14	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.0077	10.08	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0015	10.17	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9898	10.04	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9986	10.15	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0147	11.07	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.545	15.20	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.511	15.17	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.481	15.48	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.512	15.44	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.482	15.67	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.575	15.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.031	20.63	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.016	20.50	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.933	20.41	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.982	20.74	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.969	19.46	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.997	20.46	PASS



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Test Graphs



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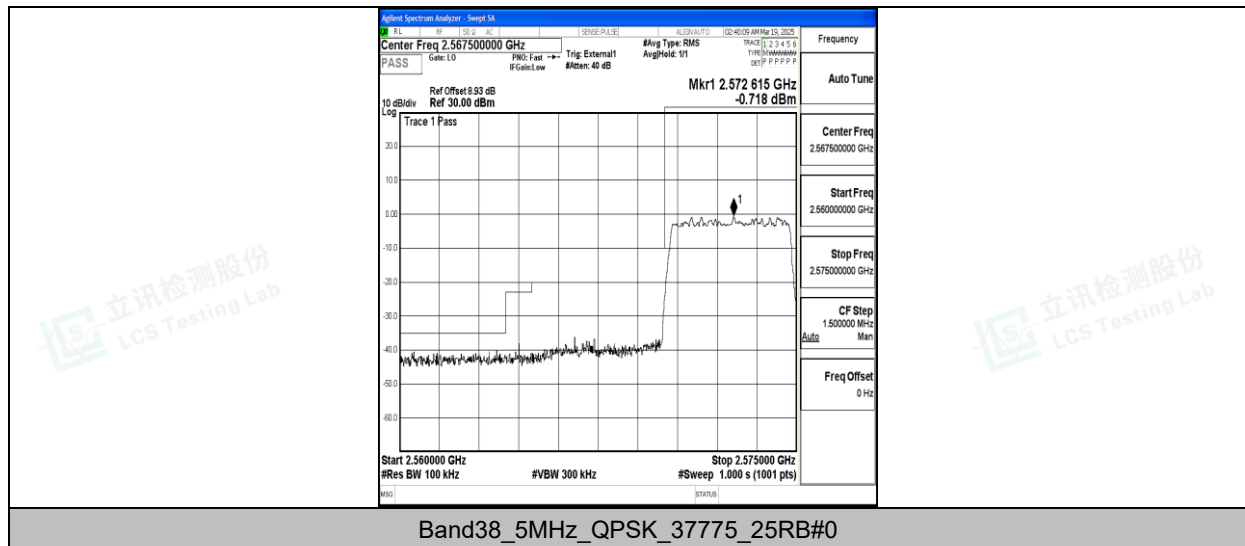


Q.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	2563.68	-40.22	PASS
Band38	5MHz	16QAM	37775	25RB#0	2563.47	-39.78	PASS
Band38	5MHz	QPSK	38225	25RB#0	2627.15	-40.65	PASS
Band38	5MHz	16QAM	38225	25RB#0	2627.41	-40.08	PASS
Band38	10MHz	QPSK	37800	50RB#0	2556.90	-36.93	PASS
Band38	10MHz	16QAM	37800	50RB#0	2555.58	-37.32	PASS
Band38	10MHz	QPSK	38200	50RB#0	2634.58	-36.61	PASS
Band38	10MHz	16QAM	38200	50RB#0	2630.65	-36.56	PASS
Band38	15MHz	QPSK	37825	75RB#0	2554.48	-34.80	PASS
Band38	15MHz	16QAM	37825	75RB#0	2552.21	-35.36	PASS
Band38	15MHz	QPSK	38175	75RB#0	2637.52	-34.83	PASS
Band38	15MHz	16QAM	38175	75RB#0	2637.41	-35.04	PASS
Band38	20MHz	QPSK	37850	100RB#0	2547.61	-33.28	PASS
Band38	20MHz	16QAM	37850	100RB#0	2548.29	-33.77	PASS
Band38	20MHz	QPSK	38150	100RB#0	2643.79	-34.43	PASS
Band38	20MHz	16QAM	38150	100RB#0	2642.48	-34.00	PASS

Test Graphs



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Q.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	0.009~0.15	-64.53	PASS
Band38	5MHz	QPSK	37775	1RB#0	0.15~30	-54.78	PASS
Band38	5MHz	QPSK	37775	1RB#0	30~1000	-53.07	PASS
Band38	5MHz	QPSK	37775	1RB#0	1000~20000	-34.58	PASS
Band38	5MHz	QPSK	37775	1RB#0	20000~27000	-25.86	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.009~0.15	-64.53	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.15~30	-54.56	PASS
Band38	5MHz	16QAM	37775	1RB#0	30~1000	-53.12	PASS
Band38	5MHz	16QAM	37775	1RB#0	1000~20000	-33.82	PASS
Band38	5MHz	16QAM	37775	1RB#0	20000~27000	-26.62	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.009~0.15	-66.16	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.15~30	-54.88	PASS
Band38	5MHz	QPSK	38000	1RB#0	30~1000	-52.96	PASS
Band38	5MHz	QPSK	38000	1RB#0	1000~20000	-34.81	PASS
Band38	5MHz	QPSK	38000	1RB#0	20000~27000	-25.60	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.009~0.15	-66.08	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.15~30	-54.11	PASS
Band38	5MHz	16QAM	38000	1RB#0	30~1000	-51.65	PASS
Band38	5MHz	16QAM	38000	1RB#0	1000~20000	-34.52	PASS
Band38	5MHz	16QAM	38000	1RB#0	20000~27000	-26.10	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.009~0.15	-66.29	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.15~30	-57.26	PASS
Band38	5MHz	QPSK	38225	1RB#0	30~1000	-52.24	PASS
Band38	5MHz	QPSK	38225	1RB#0	1000~20000	-34.19	PASS
Band38	5MHz	QPSK	38225	1RB#0	20000~27000	-26.29	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.009~0.15	-66.44	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.15~30	-55.42	PASS
Band38	5MHz	16QAM	38225	1RB#0	30~1000	-52.31	PASS
Band38	5MHz	16QAM	38225	1RB#0	1000~20000	-34.50	PASS
Band38	5MHz	16QAM	38225	1RB#0	20000~27000	-26.23	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.009~0.15	-65.62	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.15~30	-54.89	PASS
Band38	10MHz	QPSK	37800	1RB#0	30~1000	-52.90	PASS
Band38	10MHz	QPSK	37800	1RB#0	1000~20000	-34.30	PASS
Band38	10MHz	QPSK	37800	1RB#0	20000~27000	-25.81	PASS
Band38	10MHz	16QAM	37800	1RB#0	0.009~0.15	-64.20	PASS



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