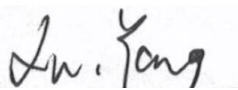


APPENDIX REPORT

Project No.	SHT2309044601EW	Radio Specification	LTE
Test sample No.	YPHT23090446001_01	Model No.	Flip K
Start test date	2023-09-18	Finish date	2023-09-22
Temperature	24.1℃	Humidity	46%
Test Engineer	Xiaodong Zhao	Auditor	

Appendix clause	Test item	Result
A	Conducted Output Power	Pass
B	Peak-to-Average Ratio	Pass
C	26 dB Bandwidth and Occupied Bandwidth	Pass
D	Band edge	Pass
E	Conducted Spurious Emission	Pass
F	Frequency Stability	Pass
G	ERP and EIRP	Pass

Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.81	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.55	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.77	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.60	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.87	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.49	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.91	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.61	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.91	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.62	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.95	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.64	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.80	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.05	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.99	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.88	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.94	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.83	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.83	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.95	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.89	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.93	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.84	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.14	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.82	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.07	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.92	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.49	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.55	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.44	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.63	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.44	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.61	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.71	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.77	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.64	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.74	PASS

Band2	1.4MHz	QPSK	19193	3RB#3	23.67	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.72	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.61	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.71	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.81	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.90	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.88	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.87	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.83	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.89	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.03	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.01	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.03	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.01	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.96	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.06	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.96	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.99	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.91	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.04	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.88	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.02	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.89	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.08	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.29	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.13	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.29	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.07	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.38	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.24	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.18	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.54	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.61	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.55	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.73	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.56	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.72	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.57	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.69	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.60	PASS
Band2	3MHz	16QAM	19185	8RB#4	21.64	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.70	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.76	PASS

Band2	3MHz	QPSK	19185	15RB#0	22.74	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.79	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.86	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.29	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.94	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.48	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.01	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.34	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.99	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.98	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.99	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.96	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.04	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.01	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.03	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.02	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.04	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.21	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.05	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.24	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.14	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.32	PASS
Band2	5MHz	QPSK	18900	12RB#0	22.02	PASS
Band2	5MHz	16QAM	18900	12RB#0	21.30	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.14	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.30	PASS
Band2	5MHz	QPSK	18900	12RB#13	22.14	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.22	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.08	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.22	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.67	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.27	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.77	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.51	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.84	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.70	PASS
Band2	5MHz	QPSK	19175	12RB#0	22.73	PASS
Band2	5MHz	16QAM	19175	12RB#0	21.58	PASS
Band2	5MHz	QPSK	19175	12RB#6	22.61	PASS
Band2	5MHz	16QAM	19175	12RB#6	21.57	PASS
Band2	5MHz	QPSK	19175	12RB#13	22.78	PASS
Band2	5MHz	16QAM	19175	12RB#13	21.71	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.61	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.65	PASS

Band2	10MHz	QPSK	18650	1RB#0	22.86	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.99	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.98	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.92	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.90	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.85	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.99	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.97	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.88	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.88	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.15	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.89	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.81	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.87	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.95	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.09	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.03	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.07	PASS
Band2	10MHz	16QAM	18900	25RB#0	21.50	PASS
Band2	10MHz	QPSK	18900	25RB#12	22.04	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.49	PASS
Band2	10MHz	QPSK	18900	25RB#25	22.11	PASS
Band2	10MHz	16QAM	18900	25RB#25	21.23	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.36	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.08	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.47	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.04	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.52	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.64	PASS
Band2	10MHz	QPSK	19150	25RB#0	22.37	PASS
Band2	10MHz	16QAM	19150	25RB#0	21.50	PASS
Band2	10MHz	QPSK	19150	25RB#12	22.42	PASS
Band2	10MHz	16QAM	19150	25RB#12	21.50	PASS
Band2	10MHz	QPSK	19150	25RB#25	22.60	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.77	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.90	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.07	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.40	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.87	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.81	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.90	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.76	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.97	PASS

Band2	15MHz	16QAM	18675	1RB#74	21.69	PASS
Band2	15MHz	QPSK	18675	38RB#0	21.93	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.93	PASS
Band2	15MHz	QPSK	18675	38RB#18	21.92	PASS
Band2	15MHz	16QAM	18675	38RB#18	21.91	PASS
Band2	15MHz	QPSK	18675	38RB#37	21.89	PASS
Band2	15MHz	16QAM	18675	38RB#37	21.88	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.89	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.31	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.93	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.34	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.11	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.38	PASS
Band2	15MHz	QPSK	18900	38RB#0	22.13	PASS
Band2	15MHz	16QAM	18900	38RB#0	22.10	PASS
Band2	15MHz	QPSK	18900	38RB#18	22.09	PASS
Band2	15MHz	16QAM	18900	38RB#18	22.08	PASS
Band2	15MHz	QPSK	18900	38RB#37	22.07	PASS
Band2	15MHz	16QAM	18900	38RB#37	22.07	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.45	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.15	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.51	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.21	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.50	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.64	PASS
Band2	15MHz	QPSK	19125	38RB#0	22.33	PASS
Band2	15MHz	16QAM	19125	38RB#0	22.50	PASS
Band2	15MHz	QPSK	19125	38RB#18	22.48	PASS
Band2	15MHz	16QAM	19125	38RB#18	22.46	PASS
Band2	15MHz	QPSK	19125	38RB#37	22.44	PASS
Band2	15MHz	16QAM	19125	38RB#37	22.43	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.95	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.04	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.52	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.13	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.11	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.11	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.18	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.27	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.22	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.17	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.40	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.31	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.50	PASS

Band2	20MHz	QPSK	18900	1RB#99	23.43	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.67	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.47	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.39	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.48	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.38	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.83	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.80	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.97	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.96	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.14	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.11	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.04	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.21	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.18	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.39	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.29	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.57	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.39	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.08	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.05	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.04	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.04	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.06	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.03	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.19	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.81	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.18	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.82	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.10	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.88	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.45	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.24	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.90	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.11	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.79	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.17	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.78	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.07	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.93	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.05	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.98	PASS

Band4	1.4MHz	QPSK	20175	3RB#3	23.07	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.95	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.14	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.17	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.22	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.66	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.10	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.71	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.18	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.60	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.16	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.62	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.06	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.43	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.05	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.52	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.02	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.16	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.09	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.97	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.19	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.93	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.11	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.96	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.15	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.31	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.15	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.31	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.11	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.36	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.07	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.16	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.24	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.03	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.18	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.86	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.13	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.87	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.17	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.41	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.21	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.44	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.14	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.48	PASS

Band4	3MHz	QPSK	20175	15RB#0	22.18	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.22	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.13	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.84	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.14	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.85	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.18	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.82	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.12	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.31	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.13	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.37	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.24	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.19	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.15	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.32	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.12	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.49	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.47	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.06	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.49	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.06	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.10	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.07	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.09	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.14	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.12	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.99	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.24	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.17	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.40	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.05	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.41	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.08	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.44	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.15	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.30	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.20	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.32	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.27	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.33	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.25	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.32	PASS

Band4	5MHz	QPSK	20375	1RB#0	23.05	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.46	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.09	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.48	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.03	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.47	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.99	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.12	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.13	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.03	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.16	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.16	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.32	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.36	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.94	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.16	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.75	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.34	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.01	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.11	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.32	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.08	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.33	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.16	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.82	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.22	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.14	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.05	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.88	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.11	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.91	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.17	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.19	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.16	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.21	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.11	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.19	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.17	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.01	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.14	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.82	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.16	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.82	PASS

Band4	10MHz	QPSK	20350	25RB#0	22.06	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.10	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.06	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.07	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.15	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.17	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.11	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.12	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.13	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.37	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.15	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.16	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.11	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.21	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.17	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.16	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.16	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.06	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.16	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.14	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.97	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.21	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.92	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.16	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.89	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.19	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.14	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.12	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.23	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.22	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.22	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.21	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.17	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.12	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.18	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.11	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.13	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.13	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.13	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.14	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.14	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.22	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.06	PASS

Band4	15MHz	16QAM	20325	38RB#37	22.11	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.13	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.23	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.18	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.23	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.89	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.22	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.96	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.26	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.92	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.35	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.69	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.33	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.56	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.25	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.58	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.41	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.50	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.34	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.54	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.42	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.59	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.16	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.07	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.14	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.25	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.24	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.16	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.15	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.17	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.09	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.16	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.11	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.08	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	22.05	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	20.74	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.05	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	20.60	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.99	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.59	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.08	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.73	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.13	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.77	PASS

Band5	1.4MHz	QPSK	20407	3RB#3	22.05	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.79	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	20.99	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	19.88	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.04	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.96	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.07	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.91	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.10	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.02	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.00	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.85	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.09	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.93	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.10	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.93	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.17	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.15	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.11	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.35	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.98	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.42	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.03	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.37	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.07	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.64	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.12	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.61	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.10	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.55	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.87	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.00	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.10	PASS
Band5	3MHz	16QAM	20415	1RB#0	20.77	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.04	PASS
Band5	3MHz	16QAM	20415	1RB#8	20.67	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.19	PASS
Band5	3MHz	16QAM	20415	1RB#14	20.70	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.10	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.06	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.12	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.07	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.11	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.63	PASS

Band5	3MHz	QPSK	20415	15RB#0	21.04	PASS
Band5	3MHz	16QAM	20415	15RB#0	19.96	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.96	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.78	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.06	PASS
Band5	3MHz	16QAM	20525	1RB#8	20.64	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.09	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.71	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.08	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.21	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.10	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.22	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.05	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.17	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.19	PASS
Band5	3MHz	16QAM	20525	15RB#0	19.99	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.16	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.32	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.11	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.17	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.20	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.22	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.01	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.54	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.01	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.53	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.09	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.04	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.49	PASS
Band5	5MHz	QPSK	20425	1RB#0	21.96	PASS
Band5	5MHz	16QAM	20425	1RB#0	20.41	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.03	PASS
Band5	5MHz	16QAM	20425	1RB#12	20.31	PASS
Band5	5MHz	QPSK	20425	1RB#24	21.88	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.35	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.01	PASS
Band5	5MHz	16QAM	20425	12RB#0	19.92	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.02	PASS
Band5	5MHz	16QAM	20425	12RB#6	19.92	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.14	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.50	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.04	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.60	PASS

Band5	5MHz	QPSK	20525	1RB#0	21.91	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.23	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.98	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.20	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.14	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.34	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.13	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.21	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.09	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.22	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.12	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.11	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.16	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.15	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.02	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.04	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.11	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.05	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.19	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.04	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.03	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.01	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.03	PASS
Band5	5MHz	16QAM	20625	12RB#6	19.98	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.08	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.60	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.07	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.57	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.09	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.09	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.00	PASS
Band5	10MHz	16QAM	20450	1RB#24	20.66	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.15	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.07	PASS
Band5	10MHz	QPSK	20450	25RB#0	20.98	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.54	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.10	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.49	PASS
Band5	10MHz	QPSK	20450	25RB#25	20.98	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.07	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.99	PASS
Band5	10MHz	16QAM	20525	1RB#0	20.82	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.05	PASS
Band5	10MHz	16QAM	20525	1RB#24	20.32	PASS

Band5	10MHz	QPSK	20525	1RB#49	21.99	PASS
Band5	10MHz	16QAM	20525	1RB#49	20.91	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.19	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.29	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.04	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.31	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.20	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.30	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.14	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.56	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.21	PASS
Band5	10MHz	16QAM	20600	1RB#24	20.90	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.04	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.58	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.10	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.19	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.10	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.24	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.03	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.59	PASS
Band5	10MHz	QPSK	20450	50RB#0	20.94	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.07	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.93	PASS
Band7	5MHz	QPSK	20775	1RB#0	21.83	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.68	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.89	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.71	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.94	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.78	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.74	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.90	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.85	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.79	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.79	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.91	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.76	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.98	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.85	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.22	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.83	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.27	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.79	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.24	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.87	PASS

Band7	5MHz	16QAM	21100	12RB#0	20.01	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.88	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.95	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.93	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.99	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.89	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.09	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.06	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.46	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.04	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.58	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.09	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.60	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.08	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.27	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.21	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.24	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.27	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.29	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.24	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.31	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.70	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.38	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.80	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.40	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.83	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.50	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.81	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.92	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.80	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.91	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.88	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.88	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.97	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.67	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.91	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.22	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.04	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.63	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.04	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.03	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.03	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.88	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.96	PASS

Band7	10MHz	16QAM	21100	25RB#25	19.86	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.03	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.65	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.16	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.76	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.27	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.76	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.12	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.13	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.17	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.12	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.28	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.23	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.83	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.87	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.11	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.68	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.81	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.74	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.84	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.79	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.90	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.84	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.79	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.77	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.90	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.98	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.95	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.77	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.94	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.92	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.87	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.88	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.99	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.86	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.94	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.91	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.01	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.00	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.99	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.83	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.04	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.99	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.07	PASS

Band7	15MHz	QPSK	21375	1RB#74	22.15	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.13	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.07	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.11	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.09	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.11	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.32	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.21	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.95	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.91	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.11	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.96	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.64	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.96	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.83	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.14	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.91	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.03	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.75	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.15	PASS
Band7	20MHz	16QAM	21100	1RB#49	20.73	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.24	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.92	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.01	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.17	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.08	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.37	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.29	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.77	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.96	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.91	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.86	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.96	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.06	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.03	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.05	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.03	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.06	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.10	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.13	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	22.28	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	20.80	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.28	PASS

Band12	1.4MHz	16QAM	23017	1RB#2	20.82	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	20.83	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.21	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	20.90	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.20	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.01	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.28	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	20.89	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.14	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.58	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.17	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	20.93	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.20	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	20.97	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.24	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	20.99	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	21.97	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	20.95	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.01	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	20.92	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.06	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	20.91	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.08	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.67	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.37	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	21.92	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.43	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	21.87	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.55	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.45	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.11	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.44	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.15	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	21.82	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	20.65	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	20.84	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.63	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.11	PASS
Band12	3MHz	16QAM	23025	1RB#0	20.86	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.10	PASS
Band12	3MHz	16QAM	23025	1RB#8	20.76	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.07	PASS

Band12	3MHz	16QAM	23025	1RB#14	20.69	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.22	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.57	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.28	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.58	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.13	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.67	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.16	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.58	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.08	PASS
Band12	3MHz	16QAM	23095	1RB#0	20.74	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.15	PASS
Band12	3MHz	16QAM	23095	1RB#8	20.79	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.12	PASS
Band12	3MHz	16QAM	23095	1RB#14	20.76	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.08	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.70	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.08	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.70	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.19	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.67	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.15	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.54	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.69	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.68	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.83	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.79	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.28	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.36	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.52	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.67	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.48	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.68	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.00	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.63	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.61	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.61	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.15	PASS
Band12	5MHz	16QAM	23035	1RB#0	20.62	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.02	PASS
Band12	5MHz	16QAM	23035	1RB#12	20.34	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.15	PASS
Band12	5MHz	16QAM	23035	1RB#24	20.51	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.04	PASS

Band12	5MHz	16QAM	23035	12RB#0	20.47	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.30	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.41	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.07	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.52	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.09	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.67	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.10	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.19	PASS
Band12	5MHz	QPSK	23095	1RB#12	21.99	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.30	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.16	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.37	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.15	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.62	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.14	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.64	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.12	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.65	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.06	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.63	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.22	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.28	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.59	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.29	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.24	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.93	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.65	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.47	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.59	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.37	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.53	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.59	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.55	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.67	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.24	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.07	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.27	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.01	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.13	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.71	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.08	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.11	PASS

Band12	10MHz	16QAM	23060	25RB#12	20.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.21	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.71	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.14	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.11	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.05	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.15	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.17	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.72	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.25	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.53	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.10	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.52	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.15	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.23	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.06	PASS
Band12	10MHz	16QAM	23130	1RB#0	20.79	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.25	PASS
Band12	10MHz	16QAM	23130	1RB#24	20.99	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.32	PASS
Band12	10MHz	16QAM	23130	1RB#49	20.56	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.12	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.63	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.12	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.63	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.55	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.78	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.14	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.10	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.33	PASS
Band17	5MHz	QPSK	23755	1RB#0	22.20	PASS
Band17	5MHz	16QAM	23755	1RB#0	20.40	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.15	PASS
Band17	5MHz	16QAM	23755	1RB#12	20.48	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.10	PASS
Band17	5MHz	16QAM	23755	1RB#24	20.42	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.21	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.54	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.20	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.52	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.12	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.58	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.15	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.69	PASS

Band17	5MHz	QPSK	23790	1RB#0	22.03	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.17	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.12	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.26	PASS
Band17	5MHz	QPSK	23790	1RB#24	21.90	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.74	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.04	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.59	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.06	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.53	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.43	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.62	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.07	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.18	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.11	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.21	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.53	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.16	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.11	PASS
Band17	5MHz	16QAM	23825	1RB#24	20.65	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.53	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.33	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.39	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.33	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.40	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.40	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.56	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.45	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.15	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.13	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.00	PASS
Band17	10MHz	16QAM	23780	1RB#24	20.99	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.52	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.58	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.12	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.40	PASS
Band17	10MHz	QPSK	23780	25RB#12	20.98	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.37	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.57	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.26	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.18	PASS
Band17	10MHz	16QAM	23790	1RB#0	20.70	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.22	PASS
Band17	10MHz	16QAM	23790	1RB#24	20.60	PASS

Band17	10MHz	QPSK	23790	1RB#49	22.54	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.00	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.11	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.70	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.12	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.48	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.50	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.64	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.12	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.54	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.21	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.02	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.17	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.68	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.06	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.52	PASS
Band17	10MHz	QPSK	23800	25RB#12	20.93	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.75	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.62	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.68	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.07	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.25	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.12	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	22.91	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.80	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.95	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.81	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.93	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	22.84	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	22.92	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	21.71	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	22.92	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	21.69	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	22.99	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.66	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.93	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.60	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.12	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	22.77	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.09	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.64	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.11	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	22.80	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.99	PASS

Band66	1.4MHz	16QAM	132322	3RB#0	21.42	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	23.16	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	21.40	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	23.01	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	21.46	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.10	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	21.45	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	23.10	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	22.50	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	23.19	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.44	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	23.13	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	22.38	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	23.21	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.70	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	23.21	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.68	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	23.22	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.69	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.01	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.44	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.99	PASS
Band66	3MHz	16QAM	131987	1RB#0	22.47	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.04	PASS
Band66	3MHz	16QAM	131987	1RB#8	22.56	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.03	PASS
Band66	3MHz	16QAM	131987	1RB#14	22.52	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.87	PASS
Band66	3MHz	16QAM	131987	8RB#0	21.41	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.95	PASS
Band66	3MHz	16QAM	131987	8RB#4	21.51	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.86	PASS
Band66	3MHz	16QAM	131987	8RB#7	21.56	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.98	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.40	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.00	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.73	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.08	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.61	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.05	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.70	PASS
Band66	3MHz	QPSK	132322	8RB#0	22.04	PASS
Band66	3MHz	16QAM	132322	8RB#0	21.45	PASS
Band66	3MHz	QPSK	132322	8RB#4	22.02	PASS

Band66	3MHz	16QAM	132322	8RB#4	21.48	PASS
Band66	3MHz	QPSK	132322	8RB#7	21.96	PASS
Band66	3MHz	16QAM	132322	8RB#7	21.44	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.92	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.35	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.98	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	23.04	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.77	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.07	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.76	PASS
Band66	3MHz	QPSK	132657	8RB#0	22.04	PASS
Band66	3MHz	16QAM	132657	8RB#0	21.58	PASS
Band66	3MHz	QPSK	132657	8RB#4	22.03	PASS
Band66	3MHz	16QAM	132657	8RB#4	21.56	PASS
Band66	3MHz	QPSK	132657	8RB#7	22.13	PASS
Band66	3MHz	16QAM	132657	8RB#7	21.56	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.02	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.33	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.98	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.06	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.99	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.12	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.99	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.91	PASS
Band66	5MHz	16QAM	131997	12RB#0	21.29	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.88	PASS
Band66	5MHz	16QAM	131997	12RB#6	21.26	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.92	PASS
Band66	5MHz	16QAM	131997	12RB#13	21.30	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.87	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.45	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.94	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.44	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.97	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.43	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.99	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.47	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.98	PASS
Band66	5MHz	16QAM	132322	12RB#0	21.33	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.97	PASS
Band66	5MHz	16QAM	132322	12RB#6	21.33	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.99	PASS

Band66	5MHz	16QAM	132322	12RB#13	21.37	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.05	PASS
Band66	5MHz	16QAM	132322	25RB#0	21.44	PASS
Band66	5MHz	QPSK	132647	1RB#0	23.21	PASS
Band66	5MHz	16QAM	132647	1RB#0	22.16	PASS
Band66	5MHz	QPSK	132647	1RB#12	23.26	PASS
Band66	5MHz	16QAM	132647	1RB#12	22.16	PASS
Band66	5MHz	QPSK	132647	1RB#24	23.19	PASS
Band66	5MHz	16QAM	132647	1RB#24	22.17	PASS
Band66	5MHz	QPSK	132647	12RB#0	22.02	PASS
Band66	5MHz	16QAM	132647	12RB#0	21.43	PASS
Band66	5MHz	QPSK	132647	12RB#6	22.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	21.40	PASS
Band66	5MHz	QPSK	132647	12RB#13	22.02	PASS
Band66	5MHz	16QAM	132647	12RB#13	21.52	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.12	PASS
Band66	5MHz	16QAM	132647	25RB#0	21.52	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.95	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.94	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.90	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.64	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.98	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.63	PASS
Band66	10MHz	QPSK	132022	25RB#0	22.05	PASS
Band66	10MHz	16QAM	132022	25RB#0	21.25	PASS
Band66	10MHz	QPSK	132022	25RB#12	22.13	PASS
Band66	10MHz	16QAM	132022	25RB#12	21.27	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.85	PASS
Band66	10MHz	16QAM	132022	25RB#25	21.30	PASS
Band66	10MHz	QPSK	132322	1RB#0	23.16	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.99	PASS
Band66	10MHz	QPSK	132322	1RB#24	23.07	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.82	PASS
Band66	10MHz	QPSK	132322	1RB#49	23.21	PASS
Band66	10MHz	16QAM	132322	1RB#49	22.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	22.12	PASS
Band66	10MHz	16QAM	132322	25RB#0	21.33	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.99	PASS
Band66	10MHz	16QAM	132322	25RB#12	21.32	PASS
Band66	10MHz	QPSK	132322	25RB#25	22.07	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.36	PASS
Band66	10MHz	QPSK	132622	1RB#0	23.17	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.21	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.13	PASS

Band66	10MHz	16QAM	132622	1RB#24	21.82	PASS
Band66	10MHz	QPSK	132622	1RB#49	23.44	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.19	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.18	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.49	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.15	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.50	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.10	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.57	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.94	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.10	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.10	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.11	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.77	PASS
Band66	15MHz	QPSK	132047	1RB#38	23.22	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.80	PASS
Band66	15MHz	QPSK	132047	1RB#74	23.14	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.85	PASS
Band66	15MHz	QPSK	132047	38RB#0	21.90	PASS
Band66	15MHz	16QAM	132047	38RB#0	21.89	PASS
Band66	15MHz	QPSK	132047	38RB#18	21.87	PASS
Band66	15MHz	16QAM	132047	38RB#18	21.86	PASS
Band66	15MHz	QPSK	132047	38RB#37	21.84	PASS
Band66	15MHz	16QAM	132047	38RB#37	21.95	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.01	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.86	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.11	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.95	PASS
Band66	15MHz	QPSK	132322	1RB#74	23.11	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.98	PASS
Band66	15MHz	QPSK	132322	38RB#0	22.05	PASS
Band66	15MHz	16QAM	132322	38RB#0	22.12	PASS
Band66	15MHz	QPSK	132322	38RB#18	22.05	PASS
Band66	15MHz	16QAM	132322	38RB#18	22.08	PASS
Band66	15MHz	QPSK	132322	38RB#37	21.99	PASS
Band66	15MHz	16QAM	132322	38RB#37	21.99	PASS
Band66	15MHz	QPSK	132597	1RB#0	23.32	PASS
Band66	15MHz	16QAM	132597	1RB#0	22.01	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.40	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.03	PASS
Band66	15MHz	QPSK	132597	1RB#74	23.38	PASS
Band66	15MHz	16QAM	132597	1RB#74	22.02	PASS
Band66	15MHz	QPSK	132597	38RB#0	22.12	PASS
Band66	15MHz	16QAM	132597	38RB#0	22.14	PASS

Band66	15MHz	QPSK	132597	38RB#18	22.16	PASS
Band66	15MHz	16QAM	132597	38RB#18	22.11	PASS
Band66	15MHz	QPSK	132597	38RB#37	22.09	PASS
Band66	15MHz	16QAM	132597	38RB#37	22.08	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.91	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.03	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.12	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.02	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.95	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.02	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.06	PASS
Band66	20MHz	QPSK	132072	1RB#99	23.09	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.13	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.29	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.43	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.34	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.54	PASS
Band66	20MHz	QPSK	132322	1RB#99	23.43	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.82	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.31	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.22	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.38	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.25	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.34	PASS
Band66	20MHz	16QAM	132572	1RB#99	22.29	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.93	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.87	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.98	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.08	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.04	PASS
Band66	20MHz	QPSK	132322	50RB#25	22.12	PASS
Band66	20MHz	QPSK	132322	50RB#50	22.08	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.09	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.22	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.27	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.21	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.21	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	3.73	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	4.81	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	4.40	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.28	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	5.53	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	6.69	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.49	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.49	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	2.30	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	3.08	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	3.01	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	3.83	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	3.61	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	4.80	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	4.30	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	5.23	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	5.41	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	6.78	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.76	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.35	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	2.85	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	3.94	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	3.04	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	3.98	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	3.67	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	4.56	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.48	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.21	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	5.63	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	6.59	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.62	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.45	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	3.93	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	4.59	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	3.56	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.51	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	3.57	13	PASS

Band2	10MHz	16QAM	18650	1RB#0	4.57	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	5.71	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	6.72	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	5.25	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	6.00	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	4.75	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.69	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	4.87	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	3.72	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	4.49	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	6.05	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	6.92	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	4.79	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	5.58	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.37	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.91	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.44	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	3.63	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	4.41	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	6.13	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	7.29	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	3.93	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	4.61	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.57	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.67	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.40	13	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	5.76	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	6.23	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.92	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.70	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	5.58	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	6.12	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	6.06	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.65	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	5.37	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	6.22	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.68	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.62	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	5.69	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	6.95	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	6.16	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.77	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	5.52	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	6.38	13	PASS

Band4	3MHz	QPSK	20175	15RB#0	5.91	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.86	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	5.48	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	6.86	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.76	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.58	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	5.70	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	6.51	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	6.05	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.68	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	5.66	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	6.22	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.96	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.69	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	5.77	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	6.34	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.82	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.45	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	5.59	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	6.72	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	5.60	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	6.65	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	5.29	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	6.22	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	6.10	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	6.10	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.78	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	5.56	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	6.42	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	6.17	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	6.37	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	5.43	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	6.22	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	6.39	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	6.29	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	8.39	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	5.44	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	6.08	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	6.17	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	6.73	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	5.35	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.96	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	6.11	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	6.08	13	PASS

Band4	20MHz	QPSK	20300	100RB#0	5.88	13	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	4.92	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.66	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.44	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.15	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.11	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.24	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.79	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.61	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.48	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.28	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.57	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.31	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.75	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.87	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.58	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.55	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.60	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.70	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.91	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.82	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.36	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.09	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.65	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.46	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.04	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.57	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.48	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.89	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.40	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.84	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.61	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.44	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	6.11	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.72	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.42	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.27	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.57	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.11	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.75	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.13	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.86	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.69	13	PASS

Band5	10MHz	QPSK	20525	50RB#0	5.19	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.69	13	PASS
Band7	5MHz	QPSK	20775	1RB#0	5.02	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.48	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.21	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.08	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	6.03	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	6.46	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.38	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.25	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	5.65	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	6.15	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.49	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.08	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	5.17	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.56	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	8.30	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.49	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	8.36	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	8.46	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.41	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.46	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.45	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.82	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.77	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.87	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	6.32	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	8.33	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.67	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.71	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.87	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.71	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	5.25	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.80	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	5.55	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	6.09	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.51	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.23	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.50	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.58	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.51	13	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	4.55	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.22	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.09	13	PASS

Band12	1.4MHz	16QAM	23017	6RB#0	5.74	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.90	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.32	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.12	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.58	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.90	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.13	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.72	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.34	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.47	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.39	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.93	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.41	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.48	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.17	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.45	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.45	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.23	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.11	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.24	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.19	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.53	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.11	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.80	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.04	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.45	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.16	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.67	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.24	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.23	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.91	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.49	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.37	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.43	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	6.31	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.21	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.10	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.60	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.60	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.43	13	PASS
Band17	5MHz	QPSK	23755	1RB#0	5.88	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	6.04	13	PASS

Band17	5MHz	QPSK	23755	25RB#0	5.62	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.21	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.03	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.01	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.20	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.04	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.66	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.02	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.23	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.02	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.93	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.88	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.90	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.59	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.55	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.46	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.41	13	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	6.13	13	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	6.72	13	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	6.11	13	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	6.43	13	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	5.64	13	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	5.87	13	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	5.86	13	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	6.46	13	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	5.76	13	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	6.34	13	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	6.14	13	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	6.38	13	PASS
Band66	3MHz	QPSK	131987	1RB#0	5.64	13	PASS
Band66	3MHz	16QAM	131987	1RB#0	6.77	13	PASS
Band66	3MHz	QPSK	131987	15RB#0	6.28	13	PASS
Band66	3MHz	16QAM	131987	15RB#0	6.86	13	PASS
Band66	3MHz	QPSK	132322	1RB#0	5.39	13	PASS
Band66	3MHz	16QAM	132322	1RB#0	6.74	13	PASS
Band66	3MHz	QPSK	132322	15RB#0	5.76	13	PASS
Band66	3MHz	16QAM	132322	15RB#0	6.52	13	PASS
Band66	3MHz	QPSK	132657	1RB#0	5.47	13	PASS
Band66	3MHz	16QAM	132657	1RB#0	6.21	13	PASS
Band66	3MHz	QPSK	132657	15RB#0	5.72	13	PASS
Band66	3MHz	16QAM	132657	15RB#0	6.58	13	PASS
Band66	5MHz	QPSK	131997	1RB#0	6.11	13	PASS

Band66	5MHz	16QAM	131997	1RB#0	6.47	13	PASS
Band66	5MHz	QPSK	131997	25RB#0	6.09	13	PASS
Band66	5MHz	16QAM	131997	25RB#0	6.70	13	PASS
Band66	5MHz	QPSK	132322	1RB#0	5.53	13	PASS
Band66	5MHz	16QAM	132322	1RB#0	6.26	13	PASS
Band66	5MHz	QPSK	132322	25RB#0	5.65	13	PASS
Band66	5MHz	16QAM	132322	25RB#0	6.35	13	PASS
Band66	5MHz	QPSK	132647	1RB#0	5.97	13	PASS
Band66	5MHz	16QAM	132647	1RB#0	6.42	13	PASS
Band66	5MHz	QPSK	132647	25RB#0	5.91	13	PASS
Band66	5MHz	16QAM	132647	25RB#0	6.44	13	PASS
Band66	10MHz	QPSK	132022	1RB#0	5.96	13	PASS
Band66	10MHz	16QAM	132022	1RB#0	6.61	13	PASS
Band66	10MHz	QPSK	132322	1RB#0	5.39	13	PASS
Band66	10MHz	16QAM	132322	1RB#0	6.04	13	PASS
Band66	10MHz	QPSK	132622	1RB#0	5.74	13	PASS
Band66	10MHz	16QAM	132622	1RB#0	7.07	13	PASS
Band66	10MHz	QPSK	132022	50RB#0	6.13	13	PASS
Band66	10MHz	QPSK	132322	50RB#0	5.82	13	PASS
Band66	10MHz	QPSK	132622	50RB#0	6.02	13	PASS
Band66	15MHz	QPSK	132047	1RB#0	5.56	13	PASS
Band66	15MHz	16QAM	132047	1RB#0	6.94	13	PASS
Band66	15MHz	QPSK	132322	1RB#0	5.88	13	PASS
Band66	15MHz	16QAM	132322	1RB#0	6.55	13	PASS
Band66	15MHz	QPSK	132597	1RB#0	5.81	13	PASS
Band66	15MHz	16QAM	132597	1RB#0	7.16	13	PASS
Band66	15MHz	QPSK	132047	75RB#0	6.40	13	PASS
Band66	15MHz	QPSK	132322	75RB#0	6.04	13	PASS
Band66	15MHz	QPSK	132597	75RB#0	6.28	13	PASS
Band66	20MHz	QPSK	132072	1RB#0	8.41	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	8.41	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	8.28	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	6.17	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.88	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	6.02	13	PASS

Test Graphs

