

(°C)	(Vdc)	Hz	ppm		
QPSK					
25	3.45	8.70	0.004628	Within authorized band for Band 2	Pass
	3.89	16.37	0.008707		
	4.48	-10.11	-0.005378		
16QAM					
25	3.45	14.63	0.007782	Within authorized band for Band 2	Pass
	3.89	-10.24	-0.005447		
	4.48	9.26	0.004926		
64QAM					
25	3.45	18.95	0.010080	Within authorized band for Band 2	Pass
	3.89	-16.06	-0.008543		
	4.48	13.92	0.007404		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.89	-30	4.32	0.005164	±2.5	Pass
	-20	-8.96	-0.010711		
	-10	-7.70	-0.009205		
	0	-7.31	-0.008739		
	10	-7.34	-0.008775		
	20	-6.39	-0.007639		
	30	-6.62	-0.007914		
	40	-6.75	-0.008069		
	50	-5.59	-0.006683		
16QAM					
3.89	-30	5.04	0.006025	±2.5	Pass
	-20	-4.25	-0.005081		
	-10	-4.88	-0.005834		
	0	-7.51	-0.008978		
	10	-6.41	-0.007663		
	20	-6.77	-0.008093		
	30	-6.21	-0.007424		
	40	-5.97	-0.007137		
	50	-9.93	-0.011871		
64QAM					
3.89	-30	-5.02	-0.006001	±2.5	Pass
	-20	-9.40	-0.011237		
	-10	-8.05	-0.009623		
	0	-8.10	-0.009683		
	10	6.61	0.007902		
	20	-6.28	-0.007507		
	30	-6.78	-0.008105		
	40	-7.10	-0.008488		
	50	-8.73	-0.010436		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.45	-10.83	-0.012947	±2.5	Pass
	3.89	-9.44	-0.011285		
	4.48	-10.79	-0.012899		
16QAM					
25	3.45	-7.11	-0.008500	±2.5	Pass
	3.89	-6.12	-0.007316		
	4.48	-9.26	-0.011070		
64QAM					
25	3.45	-7.84	-0.009372	±2.5	Pass
	3.89	-10.53	-0.012588		
	4.48	-7.38	-0.008822		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.89	-30	15.13	0.005968	Within authorized band for Band 7	Pass
	-20	-22.16	-0.008742		
	-10	-16.75	-0.006607		
	0	17.58	0.006935		
	10	22.89	0.009030		
	20	23.80	0.009389		
	30	-21.77	-0.008588		
	40	-24.89	-0.009819		
	50	-28.51	-0.011247		
16QAM					
3.89	-30	-22.72	-0.008963	Within authorized band for Band 7	Pass
	-20	17.18	0.006777		
	-10	-21.21	-0.008367		
	0	-21.99	-0.008675		
	10	-18.21	-0.007183		
	20	-17.35	-0.006844		
	30	18.32	0.007227		
	40	18.22	0.007187		
	50	21.57	0.008509		
64QAM					
3.89	-30	-26.11	-0.010300	Within authorized band for Band 7	Pass
	-20	-22.56	-0.008899		
	-10	19.25	0.007594		
	0	22.62	0.008923		
	10	26.18	0.010327		
	20	27.48	0.010840		
	30	-19.34	-0.007629		
	40	-17.54	-0.006919		
	50	-25.66	-0.010122		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.45	-21.40	-0.008442	Within authorized band for Band 7	Pass
	3.89	-18.83	-0.007428		
	4.48	-15.55	-0.006134		
16QAM					
25	3.45	-16.78	-0.006619	Within authorized band for Band 7	Pass
	3.89	19.03	0.007507		
	4.48	-23.27	-0.009179		
64QAM					
25	3.45	20.50	0.008087	Within authorized band for Band 7	Pass
	3.89	-31.10	-0.012268		
	4.48	-22.60	-0.008915		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.89	-30	14.16	0.005461	Within authorized band for Band 41	Pass
	-20	-20.11	-0.007755		
	-10	10.60	0.004088		
	0	-12.17	-0.004693		
	10	18.45	0.007115		
	20	-17.40	-0.006710		
	30	13.25	0.005110		
	40	-12.36	-0.004767		
	50	16.11	0.006213		
16QAM					
3.89	-30	13.16	0.005075	Within authorized band for Band 41	Pass
	-20	14.82	0.005715		
	-10	12.55	0.004840		
	0	12.36	0.004767		
	10	13.95	0.005380		
	20	15.81	0.006097		
	30	-16.54	-0.006379		
	40	14.69	0.005665		
	50	11.20	0.004319		
64QAM					
3.89	-30	-17.62	-0.006795	Within authorized band for Band 41	Pass
	-20	-16.67	-0.006429		
	-10	14.42	0.005561		
	0	20.36	0.007852		
	10	12.22	0.004713		
	20	16.79	0.006475		
	30	15.36	0.005924		
	40	-14.22	-0.005484		
	50	-14.33	-0.005526		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.45	14.22	0.005484	Within authorized band for Band 41	Pass
	3.89	7.37	0.002842		
	4.48	-14.83	-0.005719		
16QAM					
25	3.45	12.46	0.004805	Within authorized band for Band41	Pass
	3.89	-15.28	-0.005893		
	4.48	15.11	0.005827		
64QAM					
25	3.45	18.44	0.007111	Within authorized band for Band41	Pass
	3.89	16.58	0.006394		
	4.48	-21.00	-0.008099		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 66 part:

Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.89	-30	-9.46	-0.005421	Within authorized band for Band 66	Pass
	-20	16.35	0.009370		
	-10	15.41	0.008831		
	0	17.52	0.010040		
	10	-14.23	-0.008155		
	20	8.30	0.004756		
	30	-14.63	-0.008384		
	40	-12.43	-0.007123		
	50	-7.97	-0.004567		
16QAM					
3.89	-30	11.42	0.006544	Within authorized band for Band 66	Pass
	-20	16.81	0.009633		
	-10	12.30	0.007049		
	0	12.55	0.007192		
	10	12.27	0.007032		
	20	15.18	0.008699		
	30	13.22	0.007576		
	40	13.26	0.007599		
	50	12.32	0.007060		
64QAM					
3.89	-30	23.05	0.013209	Within authorized band for Band 66	Pass
	-20	18.12	0.010384		
	-10	17.09	0.009794		
	0	18.14	0.010395		
	10	18.34	0.010510		
	20	-4.38	-0.002510		
	30	18.98	0.010877		
	40	17.57	0.010069		
	50	18.73	0.010734		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.45	-12.03	-0.006894	Within authorized band for Band 66	Pass
	3.89	-12.27	-0.007032		
	4.48	16.95	0.009713		
16QAM					
25	3.45	14.76	0.008458	Within authorized band for Band 66	Pass
	3.89	13.98	0.008011		
	4.48	9.56	0.005479		
64QAM					
25	3.45	15.54	0.008905	Within authorized band for Band 66	Pass
	3.89	15.85	0.009083		
	4.48	17.40	0.009971		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

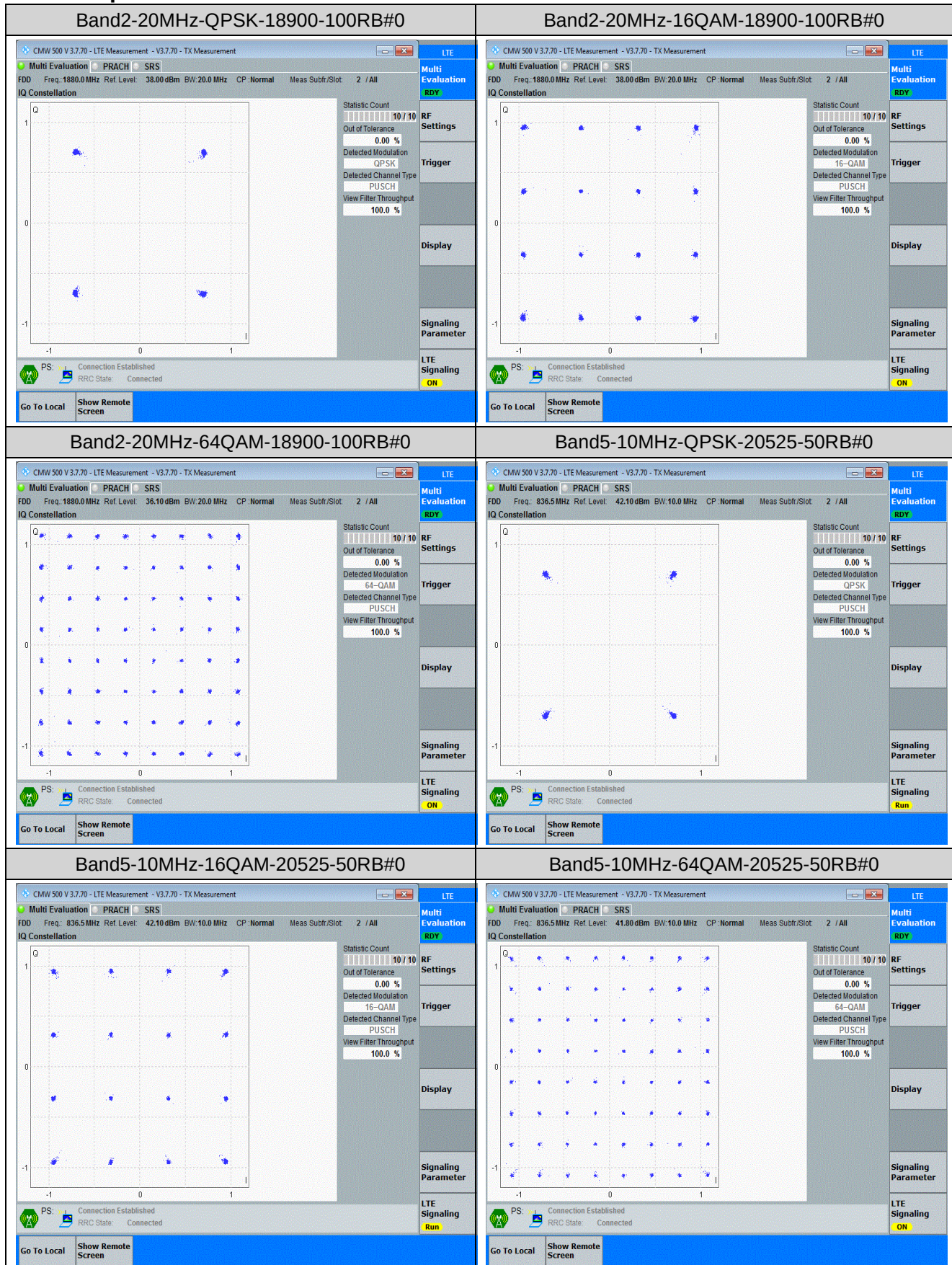
Appendix G: Modulation Characteristics

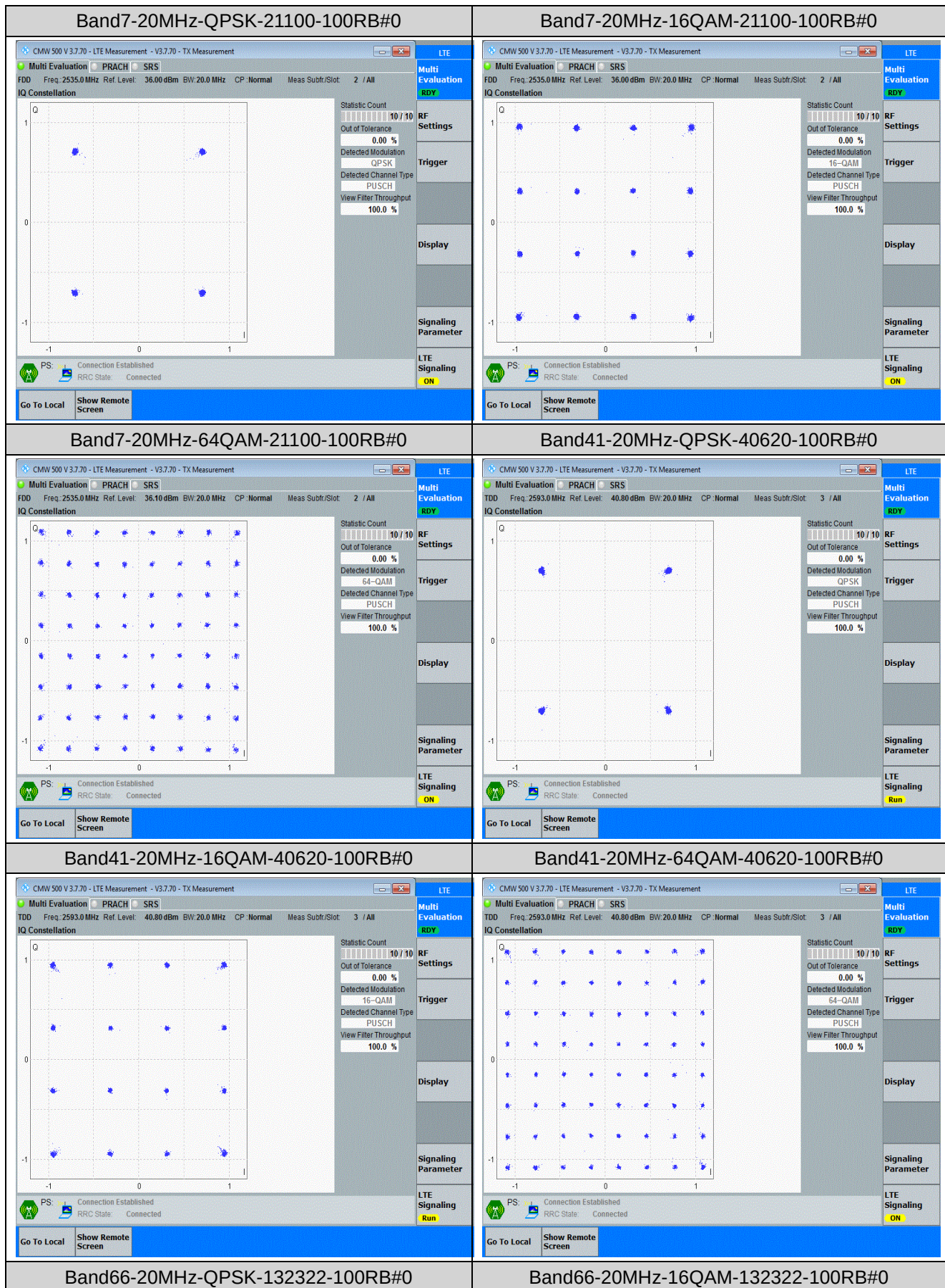
Test Result

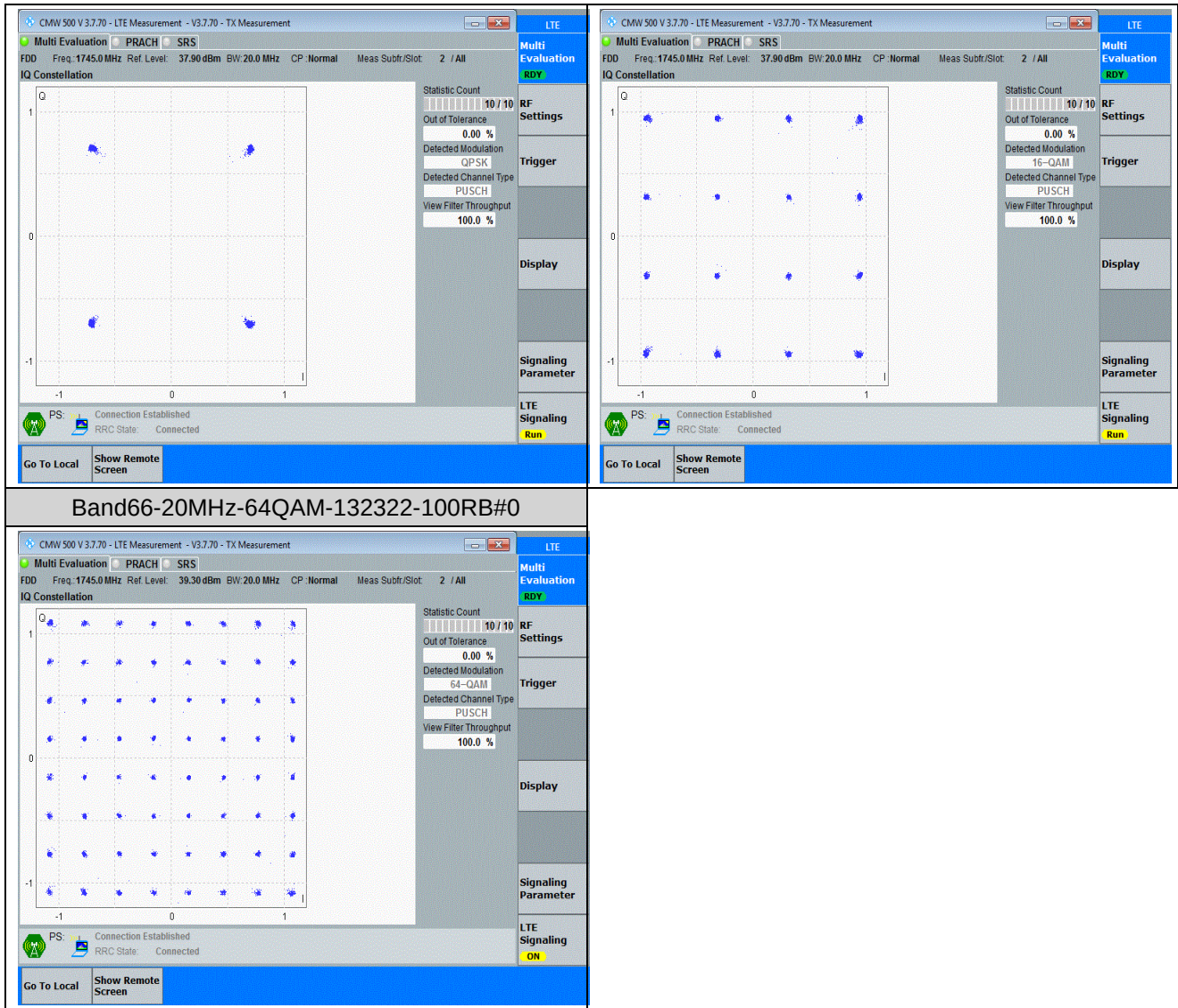
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS
Band66	20MHz	64QAM	132322	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs







Antenna 4(DC_41A_n41:LTE Band 41 TX ANT)

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power (dBm)	Fold ERP/EIRP (dBm)	Unfold ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	19.86	15.71	18.06	33.01	PASS
Band41	5MHz	QPSK	39675	1RB#12	19.62	15.47	17.82	33.01	PASS
Band41	5MHz	QPSK	39675	1RB#24	19.53	15.38	17.73	33.01	PASS
Band41	5MHz	QPSK	39675	12RB#0	19.79	15.64	17.99	33.01	PASS
Band41	5MHz	QPSK	39675	12RB#6	19.77	15.62	17.97	33.01	PASS
Band41	5MHz	QPSK	39675	12RB#11	19.77	15.62	17.97	33.01	PASS
Band41	5MHz	QPSK	39675	25RB#0	19.76	15.61	17.96	33.01	PASS
Band41	5MHz	QPSK	40620	1RB#0	19.97	15.82	18.17	33.01	PASS
Band41	5MHz	QPSK	40620	1RB#12	19.96	15.81	18.16	33.01	PASS
Band41	5MHz	QPSK	40620	1RB#24	19.98	15.83	18.18	33.01	PASS
Band41	5MHz	QPSK	40620	12RB#0	19.71	15.56	17.91	33.01	PASS
Band41	5MHz	QPSK	40620	12RB#6	19.71	15.56	17.91	33.01	PASS
Band41	5MHz	QPSK	40620	12RB#11	19.71	15.56	17.91	33.01	PASS
Band41	5MHz	QPSK	40620	25RB#0	19.73	15.58	17.93	33.01	PASS
Band41	5MHz	QPSK	41565	1RB#0	19.52	15.37	17.72	33.01	PASS
Band41	5MHz	QPSK	41565	1RB#12	19.19	15.04	17.39	33.01	PASS
Band41	5MHz	QPSK	41565	1RB#24	19.94	15.79	18.14	33.01	PASS
Band41	5MHz	QPSK	41565	12RB#0	19.71	15.56	17.91	33.01	PASS
Band41	5MHz	QPSK	41565	12RB#6	19.71	15.56	17.91	33.01	PASS
Band41	5MHz	QPSK	41565	12RB#11	19.70	15.55	17.9	33.01	PASS
Band41	5MHz	QPSK	41565	25RB#0	19.69	15.54	17.89	33.01	PASS
Band41	5MHz	16QAM	39675	1RB#0	19.90	15.75	18.1	33.01	PASS
Band41	5MHz	16QAM	39675	1RB#12	19.88	15.73	18.08	33.01	PASS
Band41	5MHz	16QAM	39675	1RB#24	19.91	15.76	18.11	33.01	PASS
Band41	5MHz	16QAM	39675	12RB#0	18.77	14.62	16.97	33.01	PASS
Band41	5MHz	16QAM	39675	12RB#6	18.75	14.6	16.95	33.01	PASS
Band41	5MHz	16QAM	39675	12RB#11	18.74	14.59	16.94	33.01	PASS
Band41	5MHz	16QAM	39675	25RB#0	18.79	14.64	16.99	33.01	PASS
Band41	5MHz	16QAM	40620	1RB#0	19.08	14.93	17.28	33.01	PASS
Band41	5MHz	16QAM	40620	1RB#12	19.07	14.92	17.27	33.01	PASS
Band41	5MHz	16QAM	40620	1RB#24	19.09	14.94	17.29	33.01	PASS

Band41	5MHz	16QAM	40620	12RB#0	18.68	14.53	16.88	33.01	PASS
Band41	5MHz	16QAM	40620	12RB#6	18.73	14.58	16.93	33.01	PASS
Band41	5MHz	16QAM	40620	12RB#11	18.69	14.54	16.89	33.01	PASS
Band41	5MHz	16QAM	40620	25RB#0	18.74	14.59	16.94	33.01	PASS
Band41	5MHz	16QAM	41565	1RB#0	19.88	15.73	18.08	33.01	PASS
Band41	5MHz	16QAM	41565	1RB#12	19.90	15.75	18.1	33.01	PASS
Band41	5MHz	16QAM	41565	1RB#24	19.91	15.76	18.11	33.01	PASS
Band41	5MHz	16QAM	41565	12RB#0	18.76	14.61	16.96	33.01	PASS
Band41	5MHz	16QAM	41565	12RB#6	18.74	14.59	16.94	33.01	PASS
Band41	5MHz	16QAM	41565	12RB#11	18.75	14.6	16.95	33.01	PASS
Band41	5MHz	16QAM	41565	25RB#0	18.69	14.54	16.89	33.01	PASS
Band41	5MHz	64QAM	39675	1RB#0	18.86	14.71	17.06	33.01	PASS
Band41	5MHz	64QAM	39675	1RB#12	18.89	14.74	17.09	33.01	PASS
Band41	5MHz	64QAM	39675	1RB#24	18.91	14.76	17.11	33.01	PASS
Band41	5MHz	64QAM	39675	12RB#0	17.71	13.56	15.91	33.01	PASS
Band41	5MHz	64QAM	39675	12RB#6	17.70	13.55	15.9	33.01	PASS
Band41	5MHz	64QAM	39675	12RB#11	17.70	13.55	15.9	33.01	PASS
Band41	5MHz	64QAM	39675	25RB#0	17.75	13.6	15.95	33.01	PASS
Band41	5MHz	64QAM	40620	1RB#0	19.08	14.93	17.28	33.01	PASS
Band41	5MHz	64QAM	40620	1RB#12	19.07	14.92	17.27	33.01	PASS
Band41	5MHz	64QAM	40620	1RB#24	19.10	14.95	17.3	33.01	PASS
Band41	5MHz	64QAM	40620	12RB#0	17.70	13.55	15.9	33.01	PASS
Band41	5MHz	64QAM	40620	12RB#6	17.69	13.54	15.89	33.01	PASS
Band41	5MHz	64QAM	40620	12RB#11	17.69	13.54	15.89	33.01	PASS
Band41	5MHz	64QAM	40620	25RB#0	17.72	13.57	15.92	33.01	PASS
Band41	5MHz	64QAM	41565	1RB#0	19.22	15.07	17.42	33.01	PASS
Band41	5MHz	64QAM	41565	1RB#12	19.22	15.07	17.42	33.01	PASS
Band41	5MHz	64QAM	41565	1RB#24	19.23	15.08	17.43	33.01	PASS
Band41	5MHz	64QAM	41565	12RB#0	17.76	13.61	15.96	33.01	PASS
Band41	5MHz	64QAM	41565	12RB#6	17.77	13.62	15.97	33.01	PASS
Band41	5MHz	64QAM	41565	12RB#11	17.80	13.65	16	33.01	PASS
Band41	5MHz	64QAM	41565	25RB#0	17.64	13.49	15.84	33.01	PASS
Band41	10MHz	QPSK	39700	1RB#0	19.74	15.59	17.94	33.01	PASS
Band41	10MHz	QPSK	39700	1RB#24	19.78	15.63	17.98	33.01	PASS
Band41	10MHz	QPSK	39700	1RB#49	19.74	15.59	17.94	33.01	PASS
Band41	10MHz	QPSK	39700	25RB#0	19.72	15.57	17.92	33.01	PASS
Band41	10MHz	QPSK	39700	25RB#12	19.72	15.57	17.92	33.01	PASS
Band41	10MHz	QPSK	39700	25RB#24	19.71	15.56	17.91	33.01	PASS
Band41	10MHz	QPSK	39700	50RB#0	19.75	15.6	17.95	33.01	PASS
Band41	10MHz	QPSK	40620	1RB#0	19.82	15.67	18.02	33.01	PASS
Band41	10MHz	QPSK	40620	1RB#24	19.81	15.66	18.01	33.01	PASS
Band41	10MHz	QPSK	40620	1RB#49	19.82	15.67	18.02	33.01	PASS

Band41	10MHz	QPSK	40620	25RB#0	19.76	15.61	17.96	33.01	PASS
Band41	10MHz	QPSK	40620	25RB#12	19.74	15.59	17.94	33.01	PASS
Band41	10MHz	QPSK	40620	25RB#24	19.74	15.59	17.94	33.01	PASS
Band41	10MHz	QPSK	40620	50RB#0	19.74	15.59	17.94	33.01	PASS
Band41	10MHz	QPSK	41540	1RB#0	19.69	15.54	17.89	33.01	PASS
Band41	10MHz	QPSK	41540	1RB#24	19.66	15.51	17.86	33.01	PASS
Band41	10MHz	QPSK	41540	1RB#49	19.43	15.28	17.63	33.01	PASS
Band41	10MHz	QPSK	41540	25RB#0	19.70	15.55	17.9	33.01	PASS
Band41	10MHz	QPSK	41540	25RB#12	19.70	15.55	17.9	33.01	PASS
Band41	10MHz	QPSK	41540	25RB#24	19.69	15.54	17.89	33.01	PASS
Band41	10MHz	QPSK	41540	50RB#0	19.71	15.56	17.91	33.01	PASS
Band41	10MHz	16QAM	39700	1RB#0	19.98	15.83	18.18	33.01	PASS
Band41	10MHz	16QAM	39700	1RB#24	19.01	14.86	17.21	33.01	PASS
Band41	10MHz	16QAM	39700	1RB#49	19.03	14.88	17.23	33.01	PASS
Band41	10MHz	16QAM	39700	25RB#0	18.79	14.64	16.99	33.01	PASS
Band41	10MHz	16QAM	39700	25RB#12	18.79	14.64	16.99	33.01	PASS
Band41	10MHz	16QAM	39700	25RB#24	18.79	14.64	16.99	33.01	PASS
Band41	10MHz	16QAM	39700	50RB#0	18.72	14.57	16.92	33.01	PASS
Band41	10MHz	16QAM	40620	1RB#0	19.09	14.94	17.29	33.01	PASS
Band41	10MHz	16QAM	40620	1RB#24	19.11	14.96	17.31	33.01	PASS
Band41	10MHz	16QAM	40620	1RB#49	19.11	14.96	17.31	33.01	PASS
Band41	10MHz	16QAM	40620	25RB#0	18.81	14.66	17.01	33.01	PASS
Band41	10MHz	16QAM	40620	25RB#12	18.80	14.65	17	33.01	PASS
Band41	10MHz	16QAM	40620	25RB#24	18.83	14.68	17.03	33.01	PASS
Band41	10MHz	16QAM	40620	50RB#0	18.74	14.59	16.94	33.01	PASS
Band41	10MHz	16QAM	41540	1RB#0	19.68	15.53	17.88	33.01	PASS
Band41	10MHz	16QAM	41540	1RB#24	19.68	15.53	17.88	33.01	PASS
Band41	10MHz	16QAM	41540	1RB#49	19.71	15.56	17.91	33.01	PASS
Band41	10MHz	16QAM	41540	25RB#0	18.74	14.59	16.94	33.01	PASS
Band41	10MHz	16QAM	41540	25RB#12	18.74	14.59	16.94	33.01	PASS
Band41	10MHz	16QAM	41540	25RB#24	18.71	14.56	16.91	33.01	PASS
Band41	10MHz	16QAM	41540	50RB#0	18.68	14.53	16.88	33.01	PASS
Band41	10MHz	64QAM	39700	1RB#0	19.05	14.9	17.25	33.01	PASS
Band41	10MHz	64QAM	39700	1RB#24	19.06	14.91	17.26	33.01	PASS
Band41	10MHz	64QAM	39700	1RB#49	19.03	14.88	17.23	33.01	PASS
Band41	10MHz	64QAM	39700	25RB#0	17.73	13.58	15.93	33.01	PASS
Band41	10MHz	64QAM	39700	25RB#12	17.71	13.56	15.91	33.01	PASS
Band41	10MHz	64QAM	39700	25RB#24	17.73	13.58	15.93	33.01	PASS
Band41	10MHz	64QAM	39700	50RB#0	17.71	13.56	15.91	33.01	PASS
Band41	10MHz	64QAM	40620	1RB#0	19.10	14.95	17.3	33.01	PASS
Band41	10MHz	64QAM	40620	1RB#24	19.12	14.97	17.32	33.01	PASS
Band41	10MHz	64QAM	40620	1RB#49	19.14	14.99	17.34	33.01	PASS

Band41	10MHz	64QAM	40620	25RB#0	17.74	13.59	15.94	33.01	PASS
Band41	10MHz	64QAM	40620	25RB#12	17.73	13.58	15.93	33.01	PASS
Band41	10MHz	64QAM	40620	25RB#24	17.71	13.56	15.91	33.01	PASS
Band41	10MHz	64QAM	40620	50RB#0	17.75	13.6	15.95	33.01	PASS
Band41	10MHz	64QAM	41540	1RB#0	18.58	14.43	16.78	33.01	PASS
Band41	10MHz	64QAM	41540	1RB#24	18.56	14.41	16.76	33.01	PASS
Band41	10MHz	64QAM	41540	1RB#49	18.63	14.48	16.83	33.01	PASS
Band41	10MHz	64QAM	41540	25RB#0	17.62	13.47	15.82	33.01	PASS
Band41	10MHz	64QAM	41540	25RB#12	17.58	13.43	15.78	33.01	PASS
Band41	10MHz	64QAM	41540	25RB#24	17.58	13.43	15.78	33.01	PASS
Band41	10MHz	64QAM	41540	50RB#0	17.64	13.49	15.84	33.01	PASS
Band41	15MHz	QPSK	39725	1RB#0	19.64	15.49	17.84	33.01	PASS
Band41	15MHz	QPSK	39725	1RB#37	19.66	15.51	17.86	33.01	PASS
Band41	15MHz	QPSK	39725	1RB#74	19.65	15.5	17.85	33.01	PASS
Band41	15MHz	QPSK	39725	36RB#0	19.61	15.46	17.81	33.01	PASS
Band41	15MHz	QPSK	39725	36RB#16	19.60	15.45	17.8	33.01	PASS
Band41	15MHz	QPSK	39725	36RB#35	19.60	15.45	17.8	33.01	PASS
Band41	15MHz	QPSK	39725	75RB#0	19.65	15.5	17.85	33.01	PASS
Band41	15MHz	QPSK	40620	1RB#0	19.73	15.58	17.93	33.01	PASS
Band41	15MHz	QPSK	40620	1RB#37	19.76	15.61	17.96	33.01	PASS
Band41	15MHz	QPSK	40620	1RB#74	19.76	15.61	17.96	33.01	PASS
Band41	15MHz	QPSK	40620	36RB#0	19.69	15.54	17.89	33.01	PASS
Band41	15MHz	QPSK	40620	36RB#16	19.66	15.51	17.86	33.01	PASS
Band41	15MHz	QPSK	40620	36RB#35	19.68	15.53	17.88	33.01	PASS
Band41	15MHz	QPSK	40620	75RB#0	19.70	15.55	17.9	33.01	PASS
Band41	15MHz	QPSK	41515	1RB#0	19.77	15.62	17.97	33.01	PASS
Band41	15MHz	QPSK	41515	1RB#37	19.80	15.65	18	33.01	PASS
Band41	15MHz	QPSK	41515	1RB#74	19.72	15.57	17.92	33.01	PASS
Band41	15MHz	QPSK	41515	36RB#0	19.67	15.52	17.87	33.01	PASS
Band41	15MHz	QPSK	41515	36RB#16	19.67	15.52	17.87	33.01	PASS
Band41	15MHz	QPSK	41515	36RB#35	19.66	15.51	17.86	33.01	PASS
Band41	15MHz	QPSK	41515	75RB#0	19.66	15.51	17.86	33.01	PASS
Band41	15MHz	16QAM	39725	1RB#0	19.93	15.78	18.13	33.01	PASS
Band41	15MHz	16QAM	39725	1RB#37	19.97	15.82	18.17	33.01	PASS
Band41	15MHz	16QAM	39725	1RB#74	19.94	15.79	18.14	33.01	PASS
Band41	15MHz	16QAM	39725	36RB#0	18.66	14.51	16.86	33.01	PASS
Band41	15MHz	16QAM	39725	36RB#16	18.65	14.5	16.85	33.01	PASS
Band41	15MHz	16QAM	39725	36RB#35	18.66	14.51	16.86	33.01	PASS
Band41	15MHz	16QAM	39725	75RB#0	18.67	14.52	16.87	33.01	PASS
Band41	15MHz	16QAM	40620	1RB#0	19.03	14.88	17.23	33.01	PASS
Band41	15MHz	16QAM	40620	1RB#37	19.10	14.95	17.3	33.01	PASS
Band41	15MHz	16QAM	40620	1RB#74	19.04	14.89	17.24	33.01	PASS

Band41	15MHz	16QAM	40620	36RB#0	18.72	14.57	16.92	33.01	PASS
Band41	15MHz	16QAM	40620	36RB#16	18.72	14.57	16.92	33.01	PASS
Band41	15MHz	16QAM	40620	36RB#35	18.71	14.56	16.91	33.01	PASS
Band41	15MHz	16QAM	40620	75RB#0	18.71	14.56	16.91	33.01	PASS
Band41	15MHz	16QAM	41515	1RB#0	19.74	15.59	17.94	33.01	PASS
Band41	15MHz	16QAM	41515	1RB#37	19.72	15.57	17.92	33.01	PASS
Band41	15MHz	16QAM	41515	1RB#74	19.73	15.58	17.93	33.01	PASS
Band41	15MHz	16QAM	41515	36RB#0	18.68	14.53	16.88	33.01	PASS
Band41	15MHz	16QAM	41515	36RB#16	18.67	14.52	16.87	33.01	PASS
Band41	15MHz	16QAM	41515	36RB#35	18.67	14.52	16.87	33.01	PASS
Band41	15MHz	16QAM	41515	75RB#0	18.67	14.52	16.87	33.01	PASS
Band41	15MHz	64QAM	39725	1RB#0	18.96	14.81	17.16	33.01	PASS
Band41	15MHz	64QAM	39725	1RB#37	19.00	14.85	17.2	33.01	PASS
Band41	15MHz	64QAM	39725	1RB#74	18.97	14.82	17.17	33.01	PASS
Band41	15MHz	64QAM	39725	36RB#0	17.64	13.49	15.84	33.01	PASS
Band41	15MHz	64QAM	39725	36RB#16	17.64	13.49	15.84	33.01	PASS
Band41	15MHz	64QAM	39725	36RB#35	17.64	13.49	15.84	33.01	PASS
Band41	15MHz	64QAM	39725	75RB#0	17.67	13.52	15.87	33.01	PASS
Band41	15MHz	64QAM	40620	1RB#0	19.03	14.88	17.23	33.01	PASS
Band41	15MHz	64QAM	40620	1RB#37	19.11	14.96	17.31	33.01	PASS
Band41	15MHz	64QAM	40620	1RB#74	19.08	14.93	17.28	33.01	PASS
Band41	15MHz	64QAM	40620	36RB#0	17.69	13.54	15.89	33.01	PASS
Band41	15MHz	64QAM	40620	36RB#16	17.68	13.53	15.88	33.01	PASS
Band41	15MHz	64QAM	40620	36RB#35	17.68	13.53	15.88	33.01	PASS
Band41	15MHz	64QAM	40620	75RB#0	17.70	13.55	15.9	33.01	PASS
Band41	15MHz	64QAM	41515	1RB#0	18.97	14.82	17.17	33.01	PASS
Band41	15MHz	64QAM	41515	1RB#37	18.99	14.84	17.19	33.01	PASS
Band41	15MHz	64QAM	41515	1RB#74	18.99	14.84	17.19	33.01	PASS
Band41	15MHz	64QAM	41515	36RB#0	17.69	13.54	15.89	33.01	PASS
Band41	15MHz	64QAM	41515	36RB#16	17.66	13.51	15.86	33.01	PASS
Band41	15MHz	64QAM	41515	36RB#35	17.66	13.51	15.86	33.01	PASS
Band41	15MHz	64QAM	41515	75RB#0	17.65	13.5	15.85	33.01	PASS
Band41	20MHz	QPSK	39750	1RB#0	19.59	15.44	17.79	33.01	PASS
Band41	20MHz	QPSK	39750	1RB#49	19.62	15.47	17.82	33.01	PASS
Band41	20MHz	QPSK	39750	1RB#99	19.68	15.53	17.88	33.01	PASS
Band41	20MHz	QPSK	39750	50RB#0	19.67	15.52	17.87	33.01	PASS
Band41	20MHz	QPSK	39750	50RB#24	19.68	15.53	17.88	33.01	PASS
Band41	20MHz	QPSK	39750	50RB#49	19.65	15.5	17.85	33.01	PASS
Band41	20MHz	QPSK	39750	100RB#0	19.68	15.53	17.88	33.01	PASS
Band41	20MHz	QPSK	40620	1RB#0	19.67	15.52	17.87	33.01	PASS
Band41	20MHz	QPSK	40620	1RB#49	19.74	15.59	17.94	33.01	PASS
Band41	20MHz	QPSK	40620	1RB#99	19.71	15.56	17.91	33.01	PASS

Band41	20MHz	QPSK	40620	50RB#0	19.79	15.64	17.99	33.01	PASS
Band41	20MHz	QPSK	40620	50RB#24	19.80	15.65	18	33.01	PASS
Band41	20MHz	QPSK	40620	50RB#49	19.79	15.64	17.99	33.01	PASS
Band41	20MHz	QPSK	40620	100RB#0	19.72	15.57	17.92	33.01	PASS
Band41	20MHz	QPSK	41490	1RB#0	19.63	15.48	17.83	33.01	PASS
Band41	20MHz	QPSK	41490	1RB#49	19.65	15.5	17.85	33.01	PASS
Band41	20MHz	QPSK	41490	1RB#99	19.71	15.56	17.91	33.01	PASS
Band41	20MHz	QPSK	41490	50RB#0	19.73	15.58	17.93	33.01	PASS
Band41	20MHz	QPSK	41490	50RB#24	19.72	15.57	17.92	33.01	PASS
Band41	20MHz	QPSK	41490	50RB#49	19.73	15.58	17.93	33.01	PASS
Band41	20MHz	QPSK	41490	100RB#0	19.72	15.57	17.92	33.01	PASS
Band41	20MHz	16QAM	39750	1RB#0	19.75	15.6	17.95	33.01	PASS
Band41	20MHz	16QAM	39750	1RB#49	19.80	15.65	18	33.01	PASS
Band41	20MHz	16QAM	39750	1RB#99	19.80	15.65	18	33.01	PASS
Band41	20MHz	16QAM	39750	50RB#0	18.68	14.53	16.88	33.01	PASS
Band41	20MHz	16QAM	39750	50RB#24	18.68	14.53	16.88	33.01	PASS
Band41	20MHz	16QAM	39750	50RB#49	18.67	14.52	16.87	33.01	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.68	14.53	16.88	33.01	PASS
Band41	20MHz	16QAM	40620	1RB#0	19.84	15.69	18.04	33.01	PASS
Band41	20MHz	16QAM	40620	1RB#49	19.91	15.76	18.11	33.01	PASS
Band41	20MHz	16QAM	40620	1RB#99	19.85	15.7	18.05	33.01	PASS
Band41	20MHz	16QAM	40620	50RB#0	18.79	14.64	16.99	33.01	PASS
Band41	20MHz	16QAM	40620	50RB#24	18.77	14.62	16.97	33.01	PASS
Band41	20MHz	16QAM	40620	50RB#49	18.77	14.62	16.97	33.01	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.72	14.57	16.92	33.01	PASS
Band41	20MHz	16QAM	41490	1RB#0	19.32	15.17	17.52	33.01	PASS
Band41	20MHz	16QAM	41490	1RB#49	19.39	15.24	17.59	33.01	PASS
Band41	20MHz	16QAM	41490	1RB#99	19.42	15.27	17.62	33.01	PASS
Band41	20MHz	16QAM	41490	50RB#0	18.75	14.6	16.95	33.01	PASS
Band41	20MHz	16QAM	41490	50RB#24	18.76	14.61	16.96	33.01	PASS
Band41	20MHz	16QAM	41490	50RB#49	18.75	14.6	16.95	33.01	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.71	14.56	16.91	33.01	PASS
Band41	20MHz	64QAM	39750	1RB#0	18.73	14.58	16.93	33.01	PASS
Band41	20MHz	64QAM	39750	1RB#49	18.83	14.68	17.03	33.01	PASS
Band41	20MHz	64QAM	39750	1RB#99	18.80	14.65	17	33.01	PASS
Band41	20MHz	64QAM	39750	50RB#0	17.64	13.49	15.84	33.01	PASS
Band41	20MHz	64QAM	39750	50RB#24	17.65	13.5	15.85	33.01	PASS
Band41	20MHz	64QAM	39750	50RB#49	17.64	13.49	15.84	33.01	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.70	13.55	15.9	33.01	PASS
Band41	20MHz	64QAM	40620	1RB#0	18.85	14.7	17.05	33.01	PASS
Band41	20MHz	64QAM	40620	1RB#49	18.92	14.77	17.12	33.01	PASS
Band41	20MHz	64QAM	40620	1RB#99	18.87	14.72	17.07	33.01	PASS

Band41	20MHz	64QAM	40620	50RB#0	17.75	13.6	15.95	33.01	PASS
Band41	20MHz	64QAM	40620	50RB#24	17.74	13.59	15.94	33.01	PASS
Band41	20MHz	64QAM	40620	50RB#49	17.73	13.58	15.93	33.01	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.72	13.57	15.92	33.01	PASS
Band41	20MHz	64QAM	41490	1RB#0	18.76	14.61	16.96	33.01	PASS
Band41	20MHz	64QAM	41490	1RB#49	18.82	14.67	17.02	33.01	PASS
Band41	20MHz	64QAM	41490	1RB#99	18.81	14.66	17.01	33.01	PASS
Band41	20MHz	64QAM	41490	50RB#0	17.77	13.62	15.97	33.01	PASS
Band41	20MHz	64QAM	41490	50RB#24	17.78	13.63	15.98	33.01	PASS
Band41	20MHz	64QAM	41490	50RB#49	17.76	13.61	15.96	33.01	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.71	13.56	15.91	33.01	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band 41)

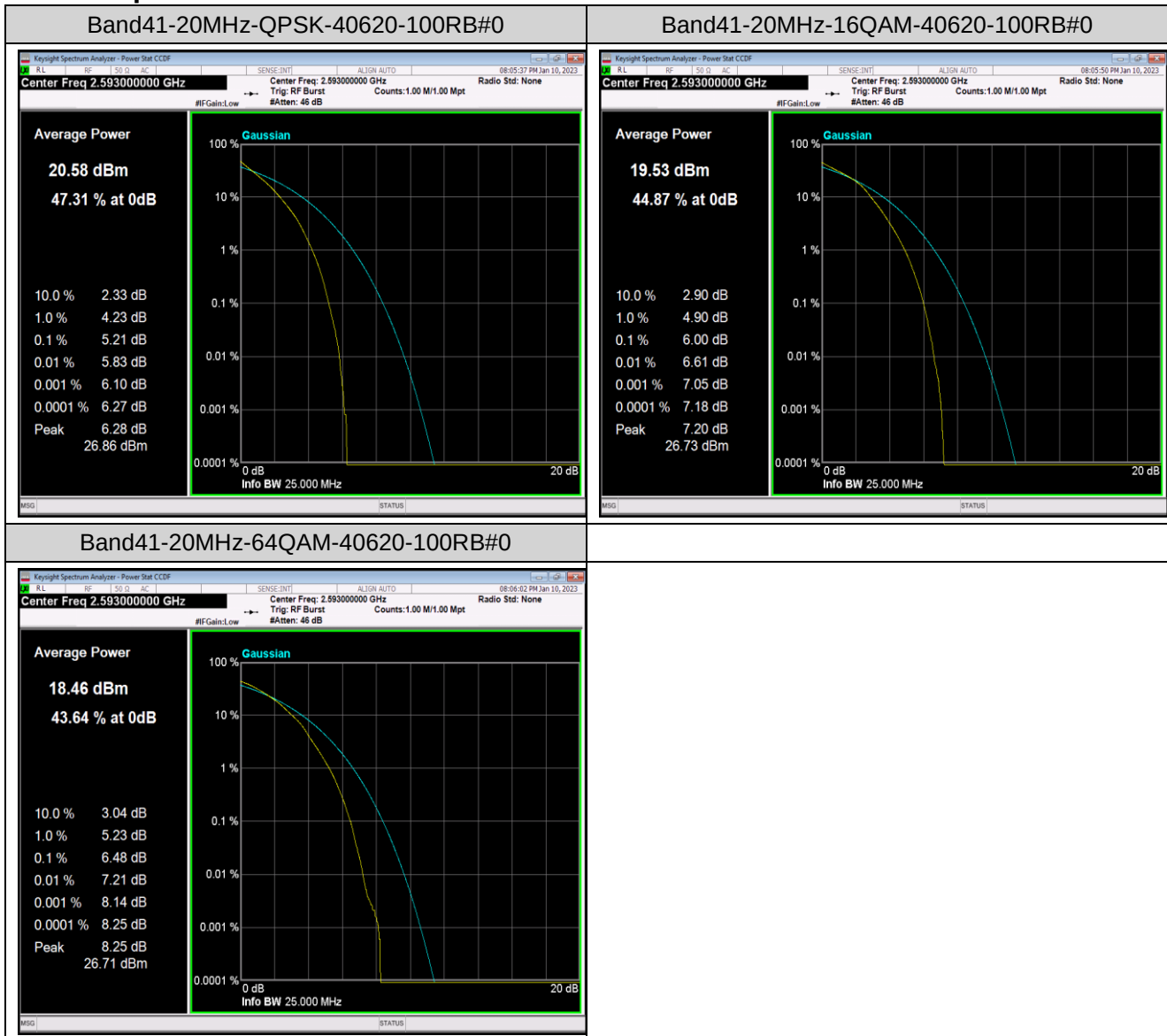
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	5.21	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.00	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.48	13	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4937	5.054	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4947	5.049	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4954	5.116	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4965	5.288	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4968	5.268	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4984	5.317	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.5070	5.033	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.5076	5.021	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.5062	5.074	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9759	9.857	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9740	9.949	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9810	9.879	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9790	9.722	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9845	9.734	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9622	9.714	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.9683	9.777	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.9960	9.787	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.9720	9.792	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.472	14.88	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.477	14.92	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.491	14.90	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.497	14.67	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.480	15.04	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.489	14.81	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.445	14.55	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.441	14.58	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.450	14.55	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.987	19.33	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.990	19.31	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.932	19.34	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.943	19.37	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.934	19.36	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.907	19.38	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.930	19.99	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.922	19.52	PASS

Band41	20MHz	64QAM	41490	100RB#0	17.893	19.65	PASS
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Test Graphs





