

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-13.70	-0.007851	Within authorized band for Band 66	Pass
	3.80	-17.90	-0.010258		
	4.35	-22.39	-0.012831		
16QAM					
25	3.50	-9.63	-0.005519	Within authorized band for Band 66	Pass
	3.80	-6.09	-0.003490		
	4.35	-22.27	-0.012762		
64QAM					
25	3.50	4.95	0.002837	Within authorized band for Band 66	Pass
	3.80	3.10	0.001777		
	4.35	10.99	0.006298		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 71 part:

Reference Frequency: LTE Band 71 (10MHz) Middle channel=133297 Frequency=680.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-9.61	-0.014122	Within authorized band for Band 71	Pass
	-20	-9.34	-0.013725		
	-10	-11.89	-0.017472		
	0	-8.64	-0.012697		
	10	-14.33	-0.021058		
	20	-8.27	-0.012153		
	30	4.94	0.007259		
	40	-9.50	-0.013960		
	50	-11.62	-0.017076		
16QAM					
3.80	-30	23.69	0.034813	Within authorized band for Band 71	Pass
	-20	21.16	0.031095		
	-10	-10.81	-0.015885		
	0	-43.86	-0.064453		
	10	-12.60	-0.018516		
	20	-7.47	-0.010977		
	30	-29.23	-0.042954		
	40	-12.16	-0.017869		
	50	-15.49	-0.022763		
64QAM					
3.80	-30	-20.18	-0.029655	Within authorized band for Band 71	Pass
	-20	-10.07	-0.014798		
	-10	-5.11	-0.007509		
	0	-11.43	-0.016796		
	10	-40.13	-0.058971		
	20	-33.40	-0.049082		
	30	-39.88	-0.058604		
	40	-8.64	-0.012697		
	50	-48.04	-0.070595		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-3.46	-0.005084	Within authorized band for Band 71	Pass
	3.80	-11.34	-0.016664		
	4.35	-3.93	-0.005775		
16QAM					
25	3.50	-15.51	-0.022792	Within authorized band for Band 71	Pass
	3.80	-10.74	-0.015783		
	4.35	-8.60	-0.012638		
64QAM					
25	3.50	-6.21	-0.009126	Within authorized band for Band 71	Pass
	3.80	-10.17	-0.014945		
	4.35	-10.83	-0.015915		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

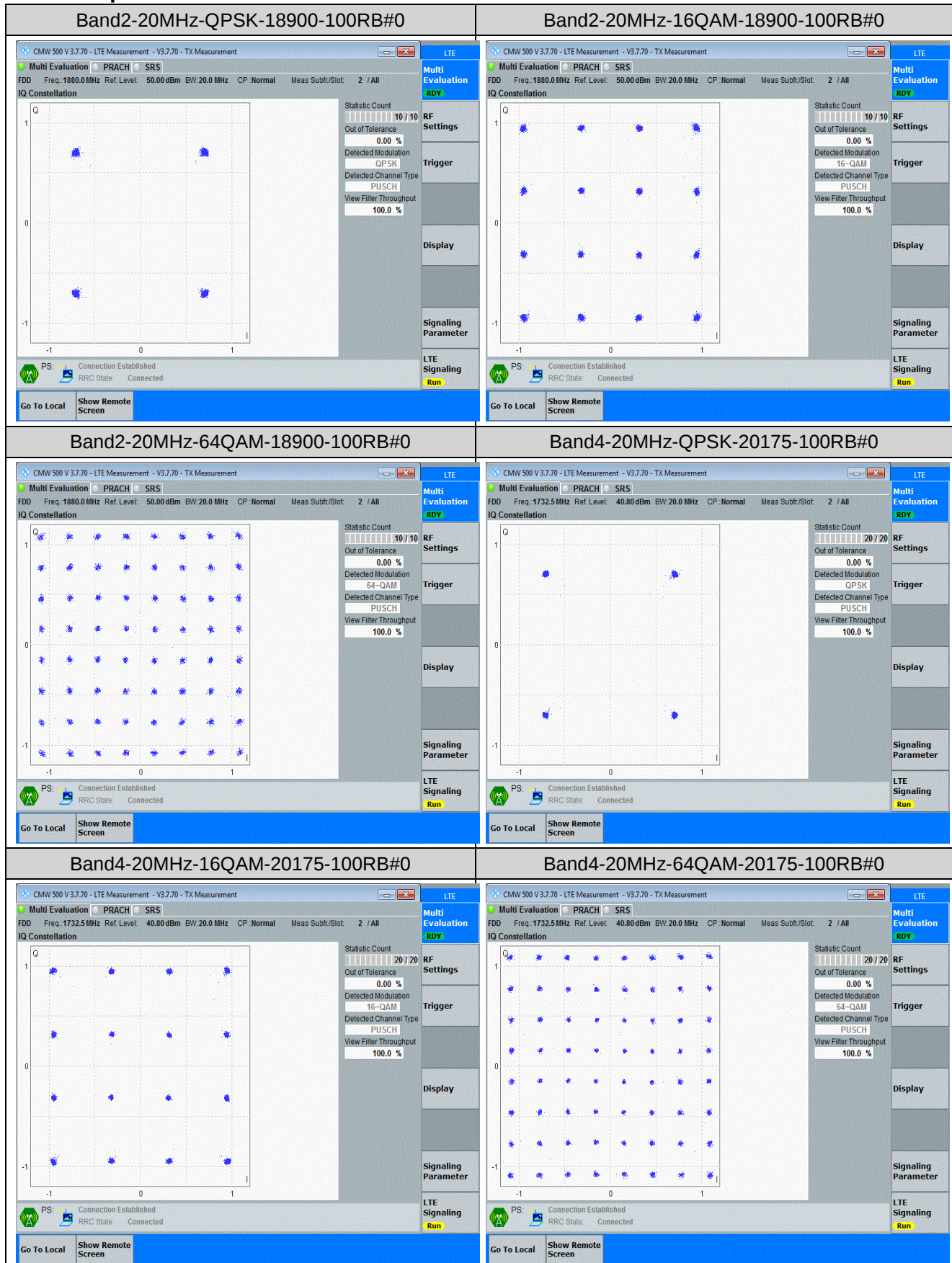
Appendix G: Modulation Characteristics

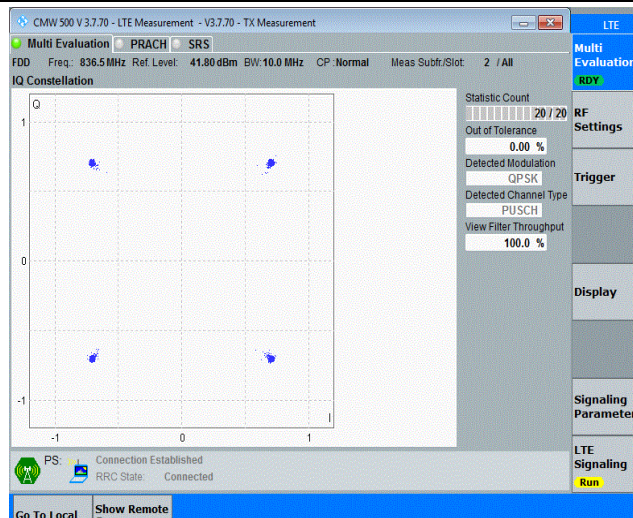
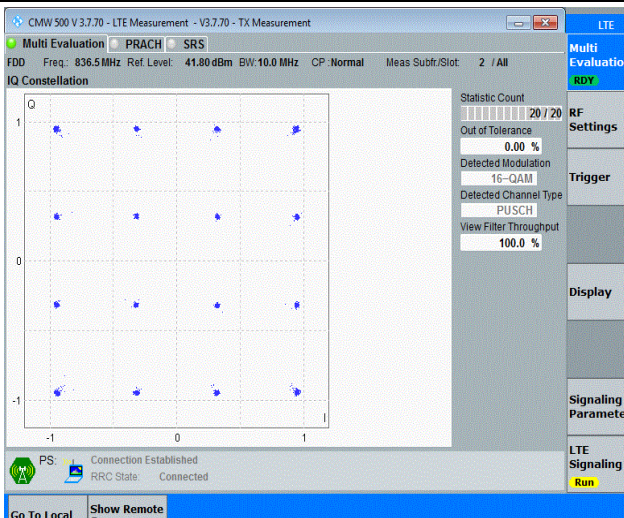
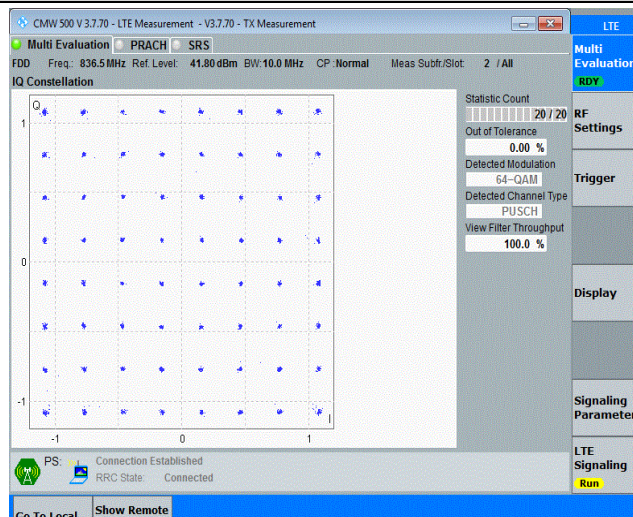
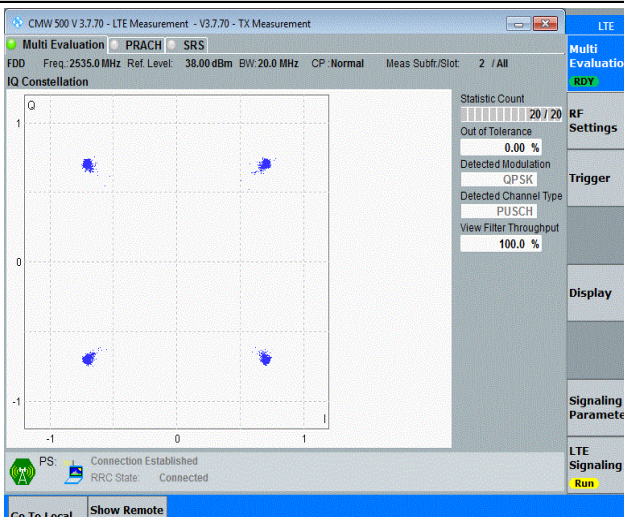
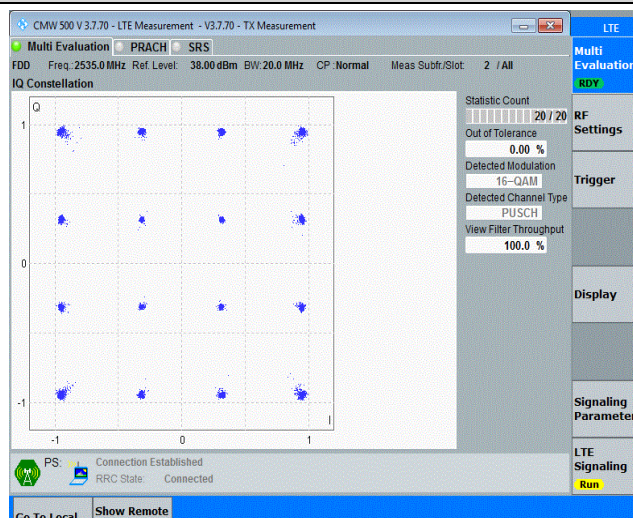
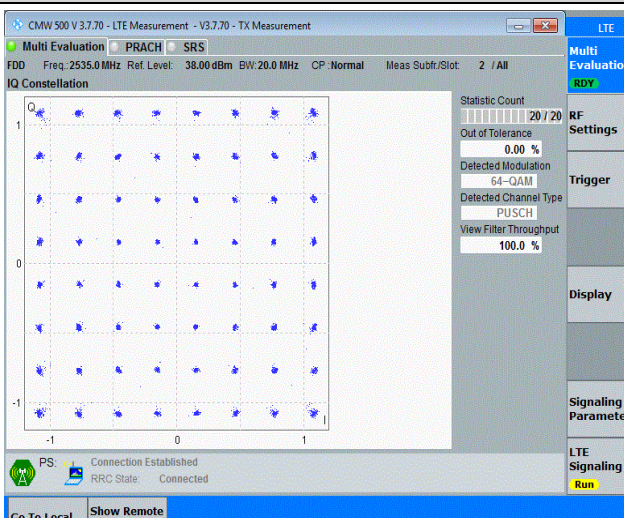
Test Result

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
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	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
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#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
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS
Band71	20MHz	16QAM	133322	100RB#0	PASS	PASS
Band71	20MHz	64QAM	133322	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



Band5-10MHz-QPSK-20525-50RB#0 	Band5-10MHz-16QAM-20525-50RB#0 
Band5-10MHz-64QAM-20525-50RB#0 	Band7-20MHz-QPSK-21100-100RB#0 
Band7-20MHz-16QAM-21100-100RB#0 	Band7-20MHz-64QAM-21100-100RB#0 
Band12-10MHz-QPSK-23095-50RB#0	Band12-10MHz-16QAM-23095-50RB#0

