

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	13.16	0.005191	Within authorized band for Band 7	Pass
	-20	5.99	0.002363		
	-10	-16.72	-0.006596		
	0	-8.70	-0.003432		
	10	-15.84	-0.006249		
	20	-1.96	-0.000773		
	30	-17.55	-0.006923		
	40	-5.05	-0.001992		
	50	-5.54	-0.002185		
16QAM					
3.87	-30	-20.53	-0.008099	Within authorized band for Band 7	Pass
	-20	6.41	0.002529		
	-10	-4.45	-0.001755		
	0	-23.09	-0.009108		
	10	-15.38	-0.006067		
	20	-23.62	-0.009318		
	30	-10.40	-0.004103		
	40	-14.15	-0.005582		
	50	-7.90	-0.003116		
64QAM					
3.87	-30	-18.27	-0.007207	Within authorized band for Band 7	Pass
	-20	-1.57	-0.000619		
	-10	-2.88	-0.001136		
	0	-5.16	-0.002036		
	10	-5.74	-0.002264		
	20	3.10	0.001223		
	30	-9.28	-0.003661		
	40	-8.74	-0.003448		
	50	-10.63	-0.004193		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.84	-0.003093	Within authorized band for Band 7	Pass
	3.87	-25.39	-0.010016		
	4.45	12.86	0.005073		
16QAM					
25	3.45	13.78	0.005436	Within authorized band for Band 7	Pass
	3.87	-4.02	-0.001586		
	4.45	-14.62	-0.005767		
64QAM					
25	3.45	-10.91	-0.004304	Within authorized band for Band 7	Pass
	3.87	16.44	0.006485		
	4.45	-12.02	-0.004742		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

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					
3.87	-30	-11.70	-0.004509	Within authorized band for Band 41	Pass
	-20	-5.04	-0.001942		
	-10	-10.57	-0.004073		
	0	7.34	0.002829		
	10	-7.85	-0.003025		
	20	-6.82	-0.002628		
	30	-8.24	-0.003175		
	40	-6.91	-0.002663		
	50	-4.89	-0.001884		
16QAM					
3.87	-30	-7.51	-0.002894	Within authorized band for Band 41	Pass
	-20	-6.28	-0.002420		
	-10	4.69	0.001807		
	0	-6.65	-0.002563		
	10	-6.58	-0.002536		
	20	7.30	0.002813		
	30	-1.57	-0.000605		
	40	7.05	0.002717		
	50	-6.88	-0.002651		
64QAM					
3.87	-30	4.84	0.001865	Within authorized band for Band 41	Pass
	-20	2.90	0.001118		
	-10	-4.59	-0.001769		
	0	-9.58	-0.003692		
	10	-5.49	-0.002116		
	20	-9.27	-0.003572		
	30	-5.34	-0.002058		
	40	-5.55	-0.002139		
	50	-2.27	-0.000875		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.41	-0.003626	Within authorized band for Band 41	Pass
	3.87	-11.69	-0.004505		
	4.45	-6.32	-0.002435		
16QAM					
25	3.45	6.31	0.002432	Within authorized band for Band41	Pass
	3.87	-5.61	-0.002162		
	4.45	-6.94	-0.002674		
64QAM					
25	3.45	6.72	0.002590	Within authorized band for Band41	Pass
	3.87	6.94	0.002674		
	4.45	-6.84	-0.002636		
<i>Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.</i>					

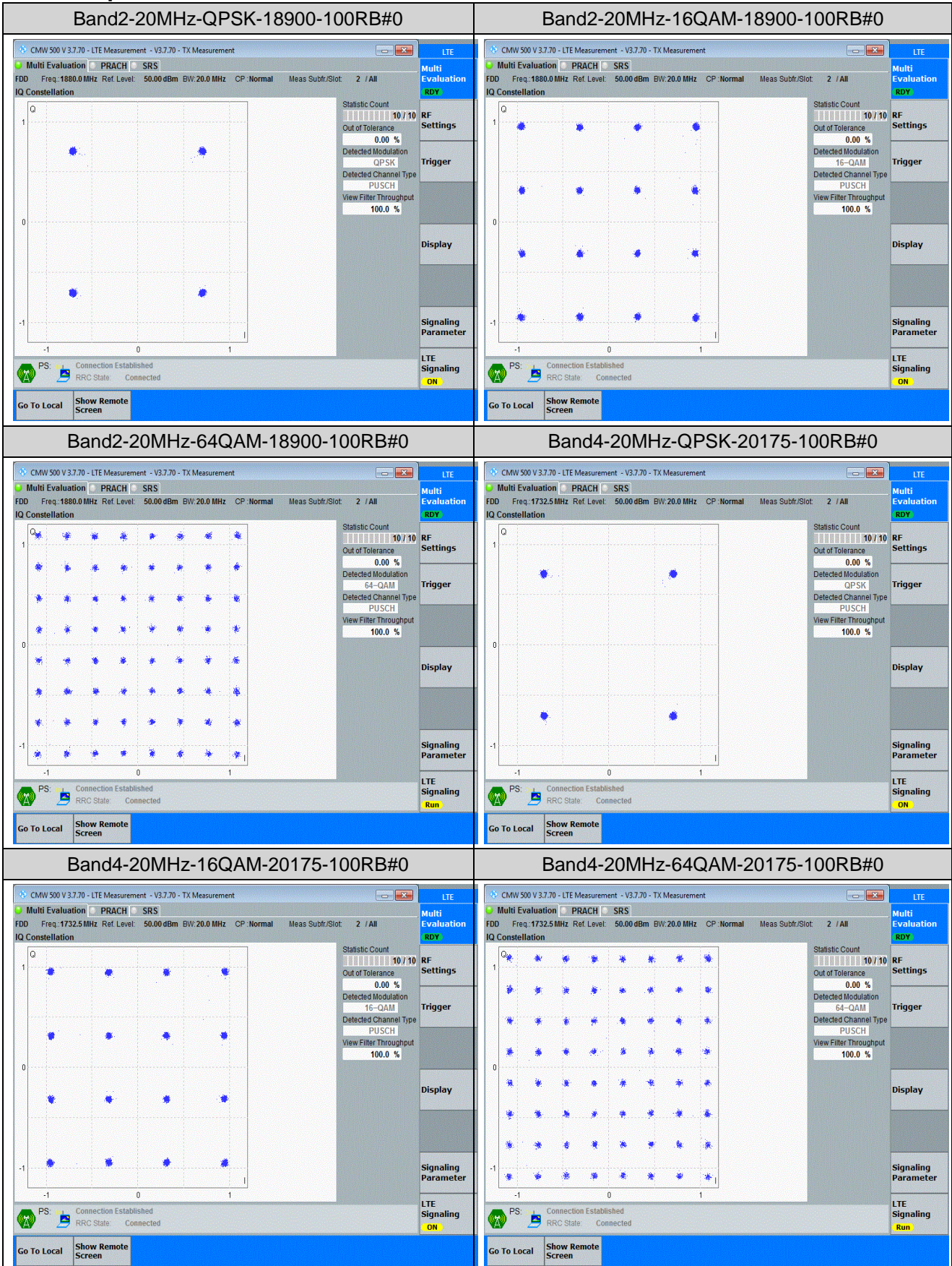
Appendix G: Modulation Characteristics

Test Result

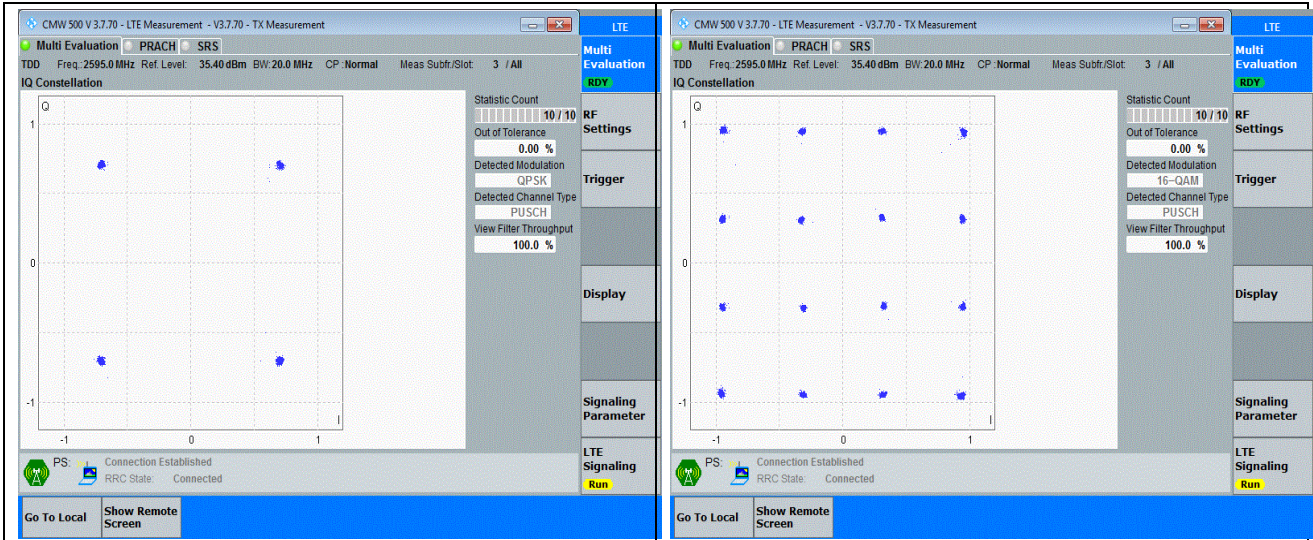
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	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
Band41	20MHz	QPSK	40640	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40640	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40640	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



<p align="center">Band5-10MHz-QPSK-20525-50RB#0</p>	<p align="center">Band5-10MHz-16QAM-20525-50RB#0</p>
<p align="center">Band5-10MHz-64QAM-20525-50RB#0</p>	<p align="center">Band7-20MHz-QPSK-21100-100RB#0</p>
<p align="center">Band7-20MHz-16QAM-21100-100RB#0</p>	<p align="center">Band7-20MHz-64QAM-21100-100RB#0</p>
<p align="center">Band41-20MHz-QPSK-40640-100RB#0</p>	<p align="center">Band41-20MHz-16QAM-40640-100RB#0</p>



Band41-20MHz-64QAM-40640-100RB#0

