

25	3.30	-3.99	-0.001539	Within authorized band for Band 41	Pass
	3.80	-26.29	-0.010139		
	4.35	-24.81	-0.009568		
16QAM					
25	3.80	-15.58	-0.006008	Within authorized band for Band41	Pass
	4.35	-27.35	-0.010548		
	3.30	-15.58	-0.006008		
64QAM					
25	3.30	-13.00	-0.005013	Within authorized band for Band 41	Pass
	3.80	-4.94	-0.001905		
	4.35	-15.46	-0.005962		
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					
3.80	-30	-8.67	-0.004968	Within authorized band for Band 66	Pass
	-20	-11.22	-0.006430		
	-10	-12.33	-0.007066		
	0	-14.62	-0.008378		
	10	-13.28	-0.007610		
	20	-16.52	-0.009467		
	30	-14.81	-0.008487		
	40	-7.41	-0.004246		
	50	-14.00	-0.008023		
16QAM					
3.80	-30	9.78	0.005605	Within authorized band for Band 66	Pass
	-20	8.64	0.004951		
	-10	-16.87	-0.009668		
	0	-6.22	-0.003564		
	10	-13.92	-0.007977		
	20	-17.25	-0.009885		
	30	-11.07	-0.006344		
	40	-11.73	-0.006722		
	50	9.03	0.005175		
64QAM					
3.80	-30	-9.94	-0.005696	Within authorized band for Band 66	Pass
	-20	-10.43	-0.005977		
	-10	-9.14	-0.005238		
	0	-8.03	-0.004602		
	10	-12.90	-0.007393		
	20	4.09	0.002344		
	30	-11.96	-0.006854		
	40	-13.95	-0.007994		
	50	-11.76	-0.006739		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.30	3.60	0.002063	Within authorized band for Band 66	Pass
	3.80	9.64	0.005524		
	4.35	-13.58	-0.007782		
16QAM					
25	3.80	-14.58	-0.008355	Within authorized band for Band 66	Pass
	4.35	-11.92	-0.006831		
	3.30	-16.37	-0.009381		
64QAM					
25	3.30	-10.16	-0.005822	Within authorized band for Band 66	Pass
	3.80	-2.72	-0.001559		
	4.35	4.61	0.002642		
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	-11.73	-0.017237	Within authorized band for Band 71	Pass
	-20	-10.93	-0.016062		
	-10	-10.73	-0.015768		
	0	-9.44	-0.013872		
	10	-8.61	-0.012652		
	20	-12.39	-0.018207		
	30	-8.34	-0.012256		
	40	-6.04	-0.008876		
	50	-6.02	-0.008846		
16QAM					
3.80	-30	-11.07	-0.016267	Within authorized band for Band 71	Pass
	-20	-13.52	-0.019868		
	-10	-14.59	-0.021440		
	0	-13.90	-0.020426		
	10	-12.53	-0.018413		
	20	-9.24	-0.013578		
	30	-7.18	-0.010551		
	40	-11.20	-0.016458		
	50	-11.59	-0.017032		
64QAM					
3.80	-30	-10.54	-0.015489	Within authorized band for Band 71	Pass
	-20	-10.50	-0.015430		
	-10	-13.03	-0.019148		
	0	-8.54	-0.012550		
	10	-8.81	-0.012946		
	20	-10.94	-0.016076		
	30	-8.80	-0.012932		
	40	-11.63	-0.017090		
	50	-9.63	-0.014151		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					

25	3.30	-9.51	-0.013975	Within authorized band for Band 71	Pass
	3.80	-8.67	-0.012741		
	4.35	-11.12	-0.016341		
16QAM					
25	3.30	-14.49	-0.021293	Within authorized band for Band 71	Pass
	3.80	-10.01	-0.014710		
	4.35	-11.69	-0.017179		
64QAM					
25	3.30	-7.01	-0.010301	Within authorized band for Band 71	Pass
	3.80	-12.62	-0.018545		
	4.35	43.27	0.063586		
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
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
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS
Band25	20MHz	QPSK	26365	100RB#0	PASS	PASS
Band25	20MHz	16QAM	26365	100RB#0	PASS	PASS
Band25	20MHz	64QAM	26365	100RB#0	PASS	PASS
Band26	15MHz	QPSK	26915	75RB#0	PASS	PASS
Band26	15MHz	16QAM	26915	75RB#0	PASS	PASS
Band26	15MHz	64QAM	26915	75RB#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









