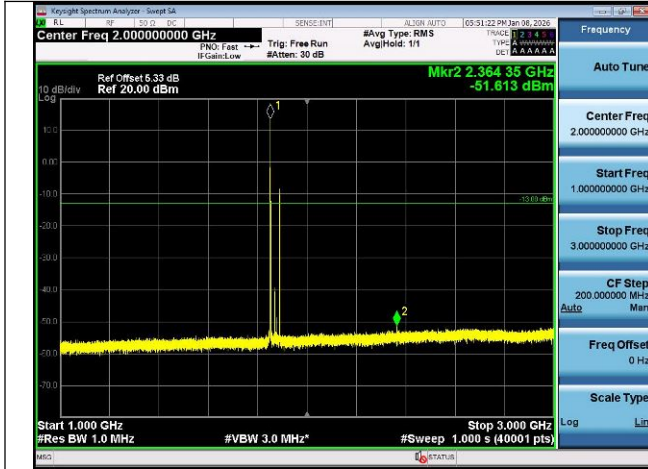
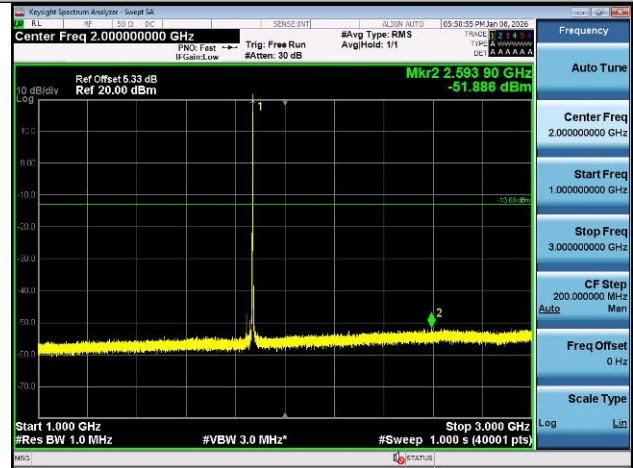
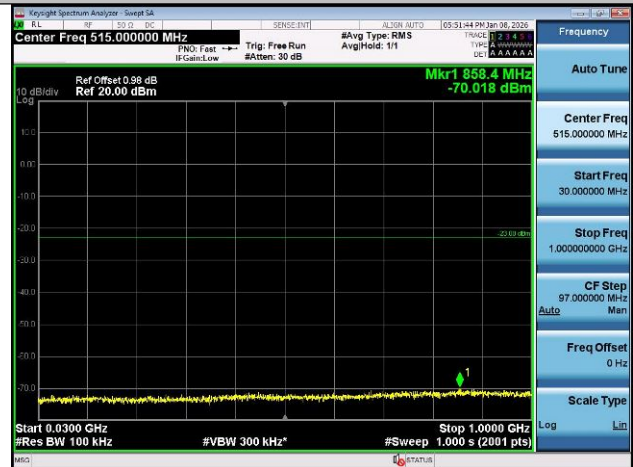


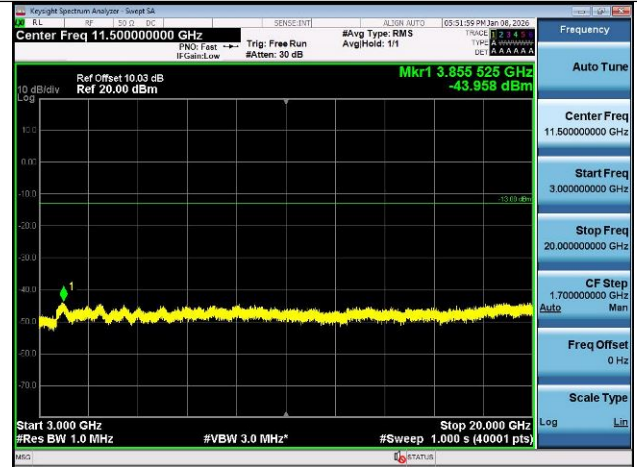
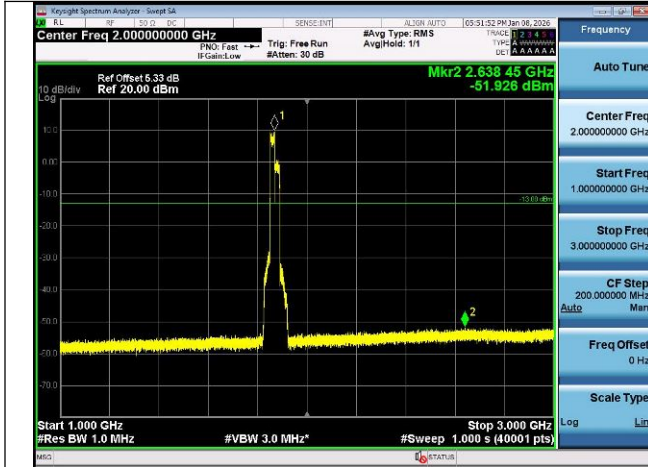


2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#99-
ORB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#99-
ORB#0-1000~3000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#99-
ORB#0-3000~20000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-100RB#0-
100RB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-100RB#0-
100RB#0-1000~3000MHz-PASS

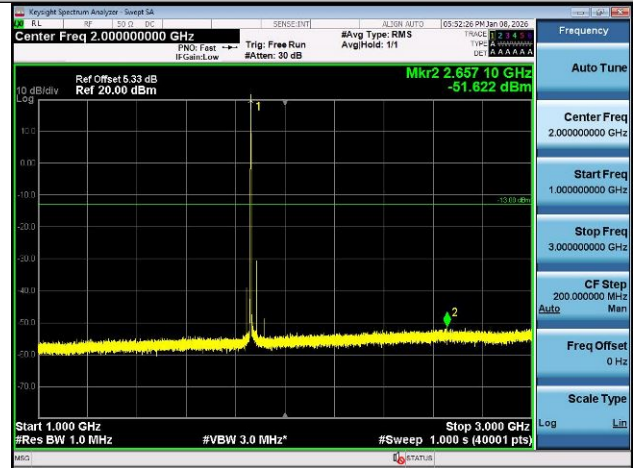
2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-100RB#0-
100RB#0-3000~20000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-30~1000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-1000~3000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-3000~20000MHz-PASS

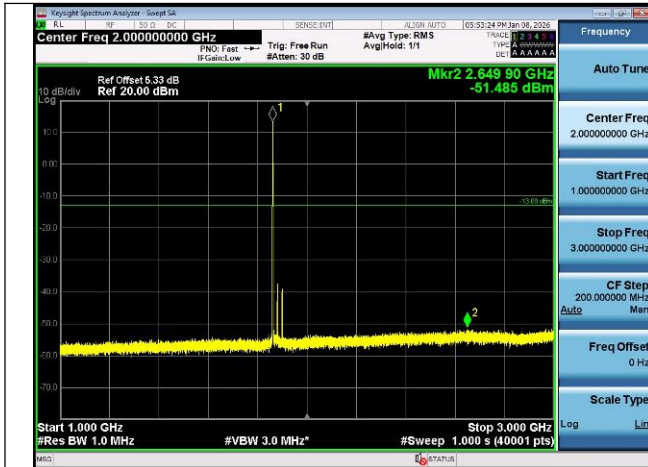


2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-1RB#99-30~1000MHz-PASS

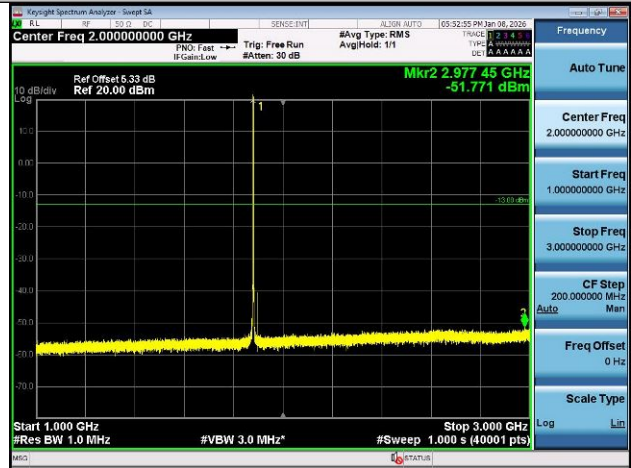


2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-1RB#99-1000~3000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-1RB#99-3000~20000MHz-PASS



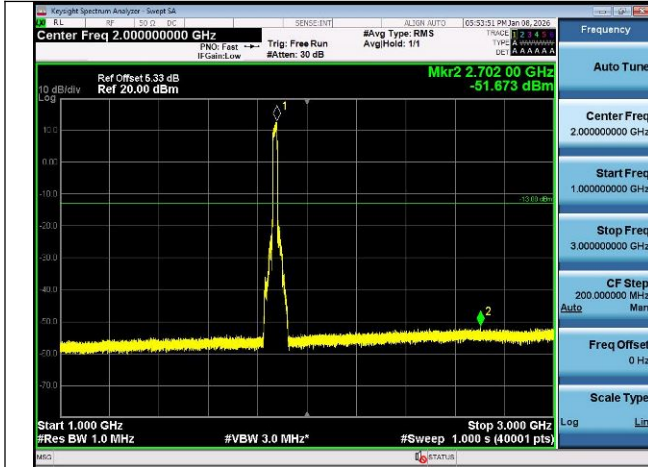
2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#99-
ORB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#99-
ORB#0-1000~3000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#99-
ORB#0-3000~20000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-100RB#0-
100RB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-100RB#0-
100RB#0-1000~3000MHz-PASS

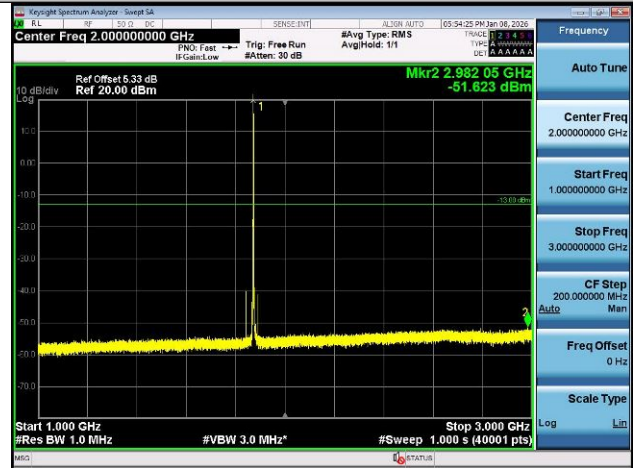
2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-100RB#0-
100RB#0-3000~20000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-30~1000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-1000~3000MHz-PASS



2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-3000~20000MHz-PASS

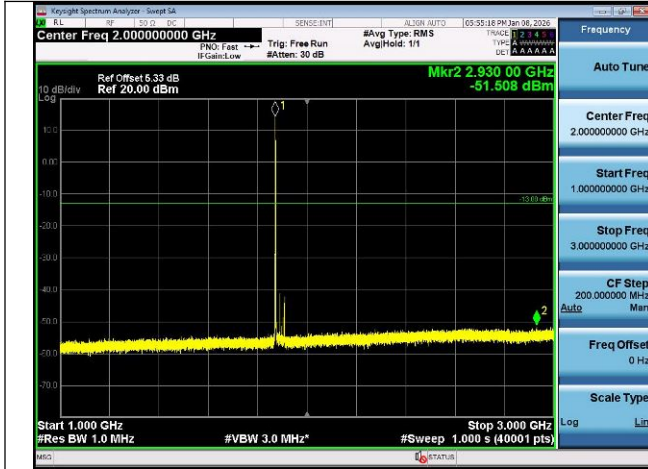


2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-1RB#99-30~1000MHz-PASS

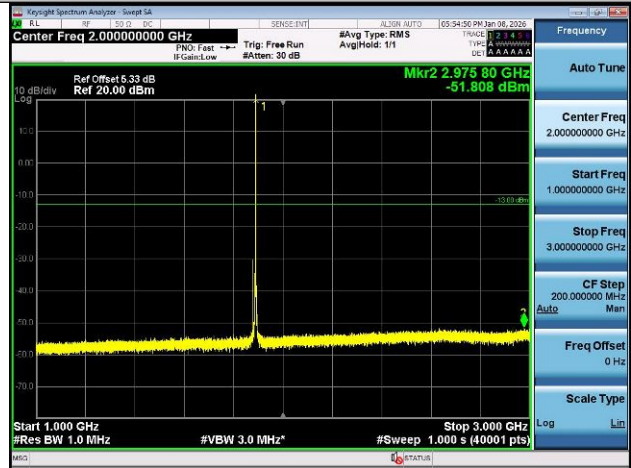


2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-1RB#99-1000~3000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-1RB#99-3000~20000MHz-PASS



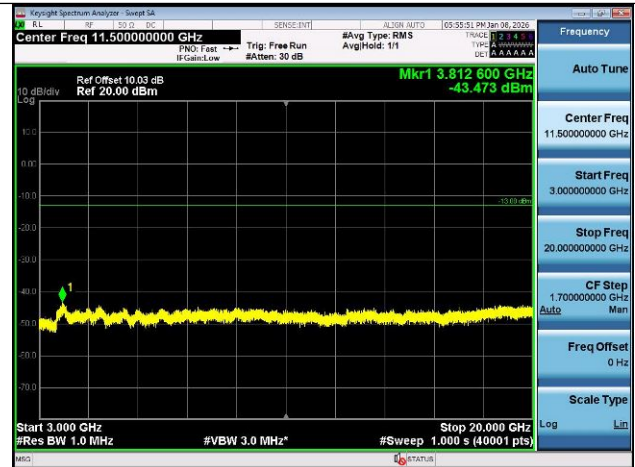
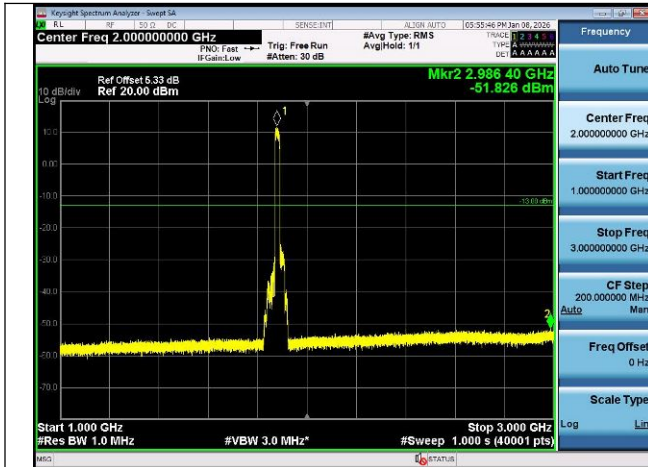
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#99-
ORB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#99-
ORB#0-1000~3000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#99-
ORB#0-3000~20000MHz-PASS

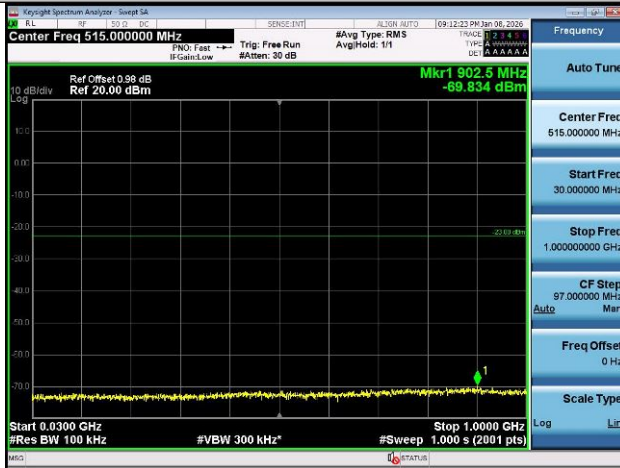
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-100RB#0-
100RB#0-30~1000MHz-PASS

2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-100RB#0-
100RB#0-1000~3000MHz-PASS

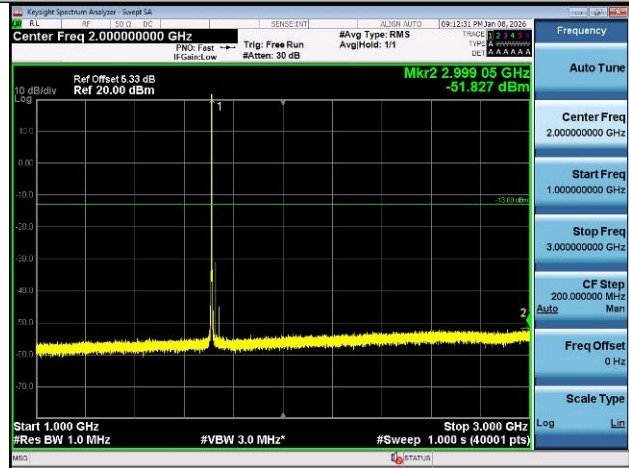
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-100RB#0-
100RB#0-3000~20000MHz-PASS



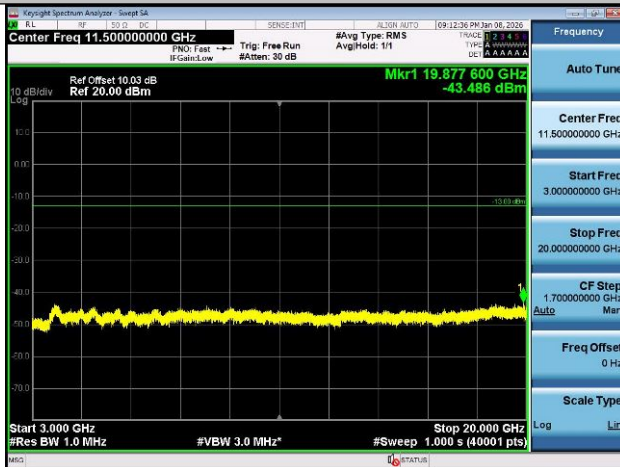
66-66-20MHz-20MHz-QPSK-QPSK-132072-132270-1RB#0-ORB#0-30~1000MHz-PASS



66-66-20MHz-20MHz-QPSK-QPSK-132072-132270-1RB#0-ORB#0-1000~3000MHz-PASS



66-66-20MHz-20MHz-QPSK-QPSK-132072-132270-1RB#0-ORB#0-3000~20000MHz-PASS

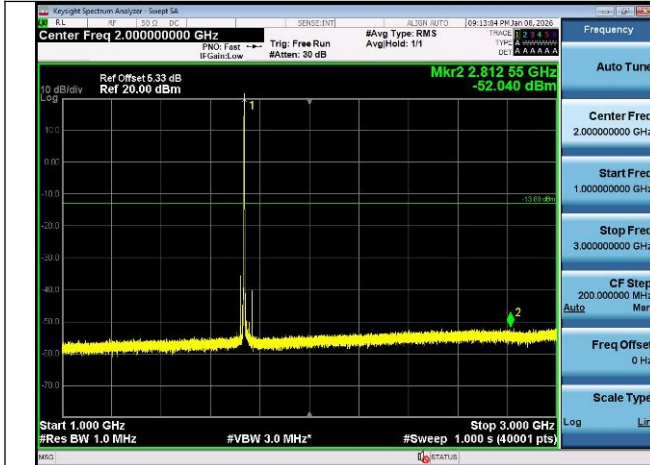


66-66-20MHz-20MHz-QPSK-QPSK-132323-132521-1RB#0-ORB#0-30~1000MHz-PASS



66-66-20MHz-20MHz-QPSK-QPSK-132323-132521-1RB#0-ORB#0-1000~3000MHz-PASS

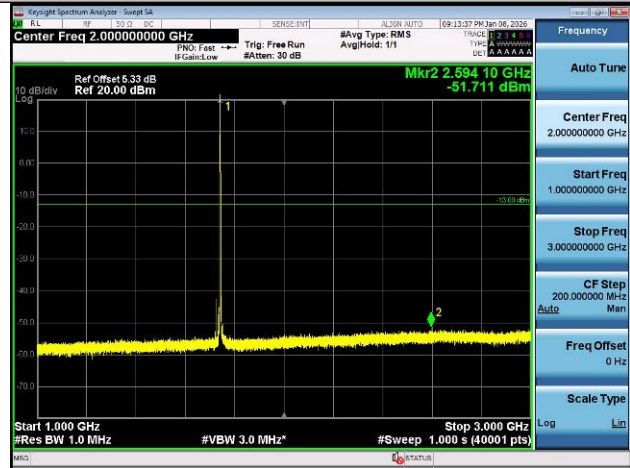
66-66-20MHz-20MHz-QPSK-QPSK-132323-132521-1RB#0-ORB#0-3000~20000MHz-PASS



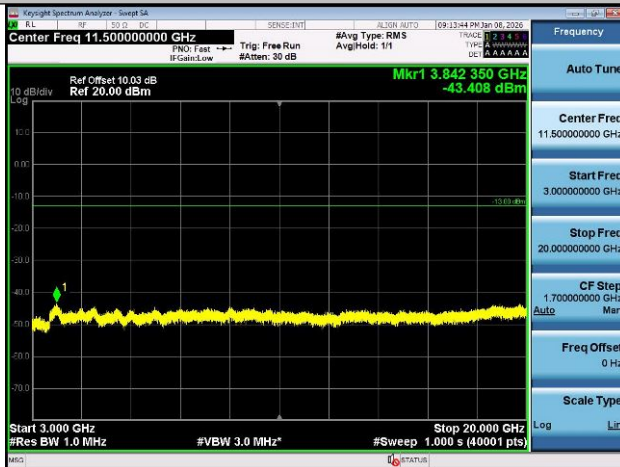
66-66-20MHz-20MHz-QPSK-QPSK-132374-132572-1RB#0-
ORB#0-30~1000MHz-PASS



66-66-20MHz-20MHz-QPSK-QPSK-132374-132572-1RB#0-
ORB#0-1000~3000MHz-PASS



66-66-20MHz-20MHz-QPSK-QPSK-132374-132572-1RB#0-
ORB#0-3000~20000MHz-PASS



6. Frequency Stability

6.1 Test Result and Data

LTE Band 2_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	3.42	0.001819	Within authorized band for Band 2	PASS
LV	NT	3.48	0.001851		PASS
HV	NT	3.10	0.001649		PASS
NV	-30	5.45	0.002899		PASS
NV	-20	4.81	0.002559		PASS
NV	-10	4.56	0.002426		PASS
NV	0	4.21	0.002239		PASS
NV	10	3.03	0.001612		PASS
NV	20	3.53	0.001878		PASS
NV	30	3.23	0.001718		PASS
NV	40	3.79	0.002016		PASS
NV	50	-4.19	-0.002229		PASS

LTE Band 4_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-3.50	-0.002020	Within authorized band for Band 4	PASS
LV	NT	3.15	0.001818		PASS
HV	NT	-3.56	-0.002055		PASS
NV	-30	3.40	0.001962		PASS
NV	-20	-2.72	-0.001570		PASS

NV	-10	2.20	0.001270		PASS
NV	0	2.16	0.001247		PASS
NV	10	-2.10	-0.001212		PASS
NV	20	-2.36	-0.001362		PASS
NV	30	4.19	0.002418		PASS
NV	40	2.89	0.001668		PASS
NV	50	-2.76	-0.001593		PASS

LTE Band 5_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-1.80	-0.002152	±2.5	PASS
LV	NT	-1.16	-0.001387		PASS
HV	NT	-2.82	-0.003371		PASS
NV	-30	-2.19	-0.002618		PASS
NV	-20	-1.59	-0.001901		PASS
NV	-10	-1.62	-0.001937		PASS
NV	0	-1.76	-0.002104		PASS
NV	10	-2.65	-0.003168		PASS
NV	20	-2.63	-0.003144		PASS
NV	30	-1.93	-0.002307		PASS
NV	40	-1.69	-0.002020		PASS
NV	50	-2.43	-0.002905		PASS

LTE Band 12_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	3.65	0.005159	Within authorized band for Band 12	PASS
LV	NT	-1.12	-0.001583		PASS
HV	NT	-1.20	-0.001696		PASS
NV	-30	1.06	0.001498		PASS
NV	-20	2.55	0.003604		PASS
NV	-10	1.60	0.002261		PASS
NV	0	1.76	0.002488		PASS

NV	10	0.96	0.001357		PASS
NV	20	-0.92	-0.001300		PASS
NV	30	1.92	0.002714		PASS
NV	40	1.26	0.001781		PASS
NV	50	1.44	0.002035		PASS

LTE Band 13_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	2.06	0.002634	Within authorized band for Band 13	PASS
LV	NT	2.02	0.002583		PASS
HV	NT	2.03	0.002596		PASS
NV	-30	1.52	0.001944		PASS
NV	-20	1.79	0.002289		PASS
NV	-10	-2.09	-0.002673		PASS
NV	0	-1.07	-0.001368		PASS
NV	10	-2.16	-0.002762		PASS
NV	20	-0.93	-0.001189		PASS
NV	30	-2.26	-0.002890		PASS
NV	40	-1.79	-0.002289		PASS
NV	50	-2.16	-0.002762		PASS

LTE Band 25_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-3.20	-0.001700	Within authorized band for Band 25	PASS
LV	NT	-3.25	-0.001726		PASS
HV	NT	-2.96	-0.001572		PASS
NV	-30	-5.05	-0.002683		PASS
NV	-20	-2.10	-0.001116		PASS
NV	-10	-4.36	-0.002316		PASS

NV	0	-4.45	-0.002364		PASS
NV	10	-2.93	-0.001556		PASS
NV	20	-5.66	-0.003007		PASS
NV	30	-4.68	-0.002486		PASS
NV	40	-5.34	-0.002837		PASS
NV	50	-5.51	-0.002927		PASS

LTE Band 26(814~824MHz)_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-2.52	-0.003077	±2.5	PASS
LV	NT	-2.07	-0.002527		PASS
HV	NT	1.32	0.001612		PASS
NV	-30	-3.32	-0.004054		PASS
NV	-20	-2.35	-0.002869		PASS
NV	-10	-1.92	-0.002344		PASS
NV	0	-1.83	-0.002234		PASS
NV	10	-1.75	-0.002137		PASS
NV	20	-1.33	-0.001624		PASS
NV	30	-2.17	-0.002650		PASS
NV	40	-2.25	-0.002747		PASS
NV	50	1.54	0.001880		PASS

LTE Band 26(824~849MHz)_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-2.37	-0.002833	±2.5	PASS
LV	NT	1.29	0.001542		PASS
HV	NT	-3.22	-0.003849		PASS
NV	-30	-1.93	-0.002307		PASS
NV	-20	-1.63	-0.001949		PASS
NV	-10	-1.60	-0.001913		PASS

NV	0	-3.86	-0.004614		PASS
NV	10	-3.56	-0.004256		PASS
NV	20	1.59	0.001901		PASS
NV	30	-2.72	-0.003252		PASS
NV	40	-2.69	-0.003216		PASS
NV	50	-0.63	-0.000753		PASS

LTE Band 30_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-7.65	-0.003312	Within authorized band for Band 30	PASS
LV	NT	-4.15	-0.001797		PASS
HV	NT	-4.82	-0.002087		PASS
NV	-30	-6.12	-0.002649		PASS
NV	-20	-3.35	-0.001450		PASS
NV	-10	-6.57	-0.002844		PASS
NV	0	-4.28	-0.001853		PASS
NV	10	-5.01	-0.002169		PASS
NV	20	-3.72	-0.001610		PASS
NV	30	-5.55	-0.002403		PASS
NV	40	-3.36	-0.001455		PASS
NV	50	-5.48	-0.002372		PASS

LTE Band 41_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	6.44	0.002484	Within authorized band for Band 41	PASS
LV	NT	-2.35	-0.000906		PASS
HV	NT	3.59	0.001384		PASS
NV	-30	3.19	0.001230		PASS
NV	-20	5.26	0.002029		PASS
NV	-10	4.25	0.001639		PASS

NV	0	4.65	0.001793		PASS
NV	10	3.18	0.001226		PASS
NV	20	5.28	0.002036		PASS
NV	30	5.11	0.001971		PASS
NV	40	-4.25	-0.001639		PASS
NV	50	5.46	0.002106		PASS

LTE Band 48_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	5.21	0.001437	Within authorized band for Band 48	PASS
LV	NT	-7.78	-0.002146		PASS
HV	NT	-5.05	-0.001393		PASS
NV	-30	4.41	0.001217		PASS
NV	-20	-6.25	-0.001724		PASS
NV	-10	3.62	0.000999		PASS
NV	0	3.62	0.000999		PASS
NV	10	-7.52	-0.002074		PASS
NV	20	7.54	0.002080		PASS
NV	30	4.91	0.001354		PASS
NV	40	-4.49	-0.001239		PASS
NV	50	4.13	0.001139		PASS

LTE Band 66_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-3.42	-0.001960	Within authorized band for Band 66	PASS
LV	NT	-2.16	-0.001238		PASS
HV	NT	-2.80	-0.001605		PASS
NV	-30	-2.96	-0.001696		PASS
NV	-20	1.95	0.001117		PASS
NV	-10	-3.66	-0.002097		PASS

NV	0	2.09	0.001198		PASS
NV	10	-2.17	-0.001244		PASS
NV	20	-4.12	-0.002361		PASS
NV	30	-3.71	-0.002126		PASS
NV	40	-3.49	-0.002000		PASS
NV	50	-2.89	-0.001656		PASS

LTE Band 71_10MHz_QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	-1.77	-0.002601	Within authorized band for Band 71	PASS
LV	NT	2.37	0.003483		PASS
HV	NT	1.22	0.001793		PASS
NV	-30	-1.42	-0.002087		PASS
NV	-20	-1.16	-0.001705		PASS
NV	-10	1.17	0.001719		PASS
NV	0	-1.86	-0.002733		PASS
NV	10	-1.07	-0.001572		PASS
NV	20	-1.90	-0.002792		PASS
NV	30	1.69	0.002483		PASS
NV	40	2.39	0.003512		PASS
NV	50	-3.60	-0.005290		PASS

LTE Band 2C_20MHz+20MHz_QPSK-QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	40.67	0.021748	Within authorized band for Band 2C	PASS
LV	NT	39.64	0.021197		PASS
HV	NT	41.00	0.021924		PASS
NV	-30	39.22	0.020972		PASS
NV	-20	40.14	0.021464		PASS
NV	-10	42.70	0.022833		PASS

NV	0	40.70	0.021764		PASS
NV	10	40.98	0.021913		PASS
NV	20	39.60	0.021175		PASS
NV	30	42.43	0.022689		PASS
NV	40	39.61	0.021181		PASS
NV	50	42.50	0.022726		PASS

LTE Band 66C_20MHz+20MHz_QPSK-QPSK_Mid Channel_Full RB					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	37.58	0.021535	Within authorized band for Band 66C	PASS
LV	NT	39.02	0.022360		PASS
HV	NT	39.10	0.022406		PASS
NV	-30	37.12	0.021271		PASS
NV	-20	39.95	0.022893		PASS
NV	-10	38.68	0.022165		PASS
NV	0	36.84	0.021111		PASS
NV	10	39.18	0.022451		PASS
NV	20	37.09	0.021254		PASS
NV	30	37.08	0.021248		PASS
NV	40	37.69	0.021598		PASS
NV	50	37.59	0.021540		PASS

Note 1: Normal Voltage = 3.8, Low Voltage = 3.5V, High Voltage = 4.2V, Normal Temperature = 20°C.

***** End of Report *****