

16-QAM, 20 MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2500.06512	2569.94559	2500	2570
-20		2500.06527	2569.94564	2500	2570
-10		2500.06477	2569.94455	2500	2570
0		2500.06628	2569.94541	2500	2570
10		2500.06500	2569.94500	2500	2570
20		2500.06505	2569.94546	2500	2570
30		2500.06425	2569.94425	2500	2570
40		2500.06573	2569.94546	2500	2570
50		2500.06451	2569.94369	2500	2570
20	V min.= 7.0	2500.06481	2569.94513	2500	2570
20	V max.= 8.4	2500.06307	2569.94309	2500	2570

LTE Band 12:

QPSK, 10MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	699.06118	715.94580	699	716
-20		699.06120	715.94564	699	716
-10		699.06099	715.94355	699	716
0		699.06108	715.94560	699	716
10		699.06100	715.94460	699	716
20		699.06213	715.94534	699	716
30		699.06056	715.94436	699	716
40		699.06221	715.94586	699	716
50		699.06061	715.94384	699	716
20	V min.= 7.0	699.06129	715.94456	699	716
20	V max.= 8.4	699.05943	715.94326	699	716

16QAM, 10MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	699.05882	715.9425	699	716
-20		699.0588	715.94224	699	716
-10		699.05745	715.94058	699	716
0		699.05822	715.94244	699	716
10		699.0582	715.9418	699	716
20		699.05884	715.9421	699	716
30		699.05739	715.94165	699	716
40		699.05912	715.94224	699	716
50		699.05819	715.9418	699	716
20	V min.= 7.0	699.05778	715.94169	699	716
20	V max.= 8.4	699.05727	715.94112	699	716

LTE Band 17:

QPSK, 10MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	704.06566	715.93599	704	716
-20		704.06515	715.93525	704	716
-10		704.06481	715.93478	704	716
0		704.06545	715.93571	704	716
10		704.06500	715.93500	704	716
20		704.06516	715.93594	704	716
30		704.06402	715.93444	704	716
40		704.06563	715.93603	704	716
50		704.06475	715.93497	704	716
20	V min.=7.0	704.06483	715.93591	704	716
20	V max.= 8.4	704.06376	715.93386	704	716

16QAM, 10MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	704.06588	715.93504	704	716
-20		704.06525	715.93591	704	716
-10		704.06426	715.93405	704	716
0		704.06615	715.9353	704	716
10		704.06544	715.93625	704	716
20		704.06547	715.93628	704	716
30		704.06426	715.93465	704	716
40		704.06511	715.93576	704	716
50		704.06408	715.93418	704	716
20	V min.= 7.0	704.0644	715.93509	704	716
20	V max.= 8.4	704.06395	715.93376	704	716

LTE Band 25:

QPSK, 20MHz, low channel& high channel					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1850.05565	1914.94829	1850	1915
-20		1850.05594	1914.94796	1850	1915
-10		1850.05515	1914.94729	1850	1915
0		1850.05543	1914.94800	1850	1915
10		1850.05540	1914.94740	1850	1915
20		1850.05613	1914.94834	1850	1915
30		1850.05507	1914.94674	1850	1915
40		1850.05640	1914.94865	1850	1915
50		1850.05519	1914.94636	1850	1915
20	V min.= 7.0	1850.05493	1914.94750	1850	1915
20	V max.= 8.4	1850.05476	1914.94607	1850	1915

16-QAM, 20MHz, low channel& high channel					
Temperature (°C)	Voltage Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1850.05916	1914.94274	1850	1915
-20		1850.05869	1914.94304	1850	1915
-10		1850.05774	1914.94049	1850	1915
0		1850.05911	1914.94197	1850	1915
10		1850.05820	1914.94180	1850	1915
20		1850.05903	1914.94310	1850	1915
30		1850.05793	1914.94113	1850	1915
40		1850.05908	1914.94247	1850	1915
50		1850.05691	1914.94098	1850	1915
20	V min.=7.0	1850.05850	1914.94244	1850	1915
20	V max.= 8.4	1850.05720	1914.94046	1850	1915

LTE Band 26(814-824)

15.0 MHz Low Channel, fo =821.5MHz (QPSK)				
Temperature (°C)\	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	-1	-0.00122	2.5
-20		-9	-0.01096	2.5
-10		-11	-0.01339	2.5
0		-5	-0.00609	2.5
10		-12	-0.01461	2.5
20		2	0.00243	2.5
30		-9	-0.01096	2.5
40		-5	-0.00609	2.5
50		-5	-0.00609	2.5
20	V min.= 7.0	2	0.00243	2.5
20	V max.= 8.4	-15	-0.01826	2.5

15.0 MHz Low Channel, fo =821.5MHz (16-QAM)				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	2	0.00243	2.5
-20		-9	-0.01096	2.5
-10		-11	-0.01339	2.5
0		-4	-0.00487	2.5
10		-11	-0.01339	2.5
20		2	0.00243	2.5
30		-7	-0.00852	2.5
40		-7	-0.00852	2.5
50		-2	-0.00243	2.5
20	V min.= 7.0	-4	-0.00487	2.5
20	V max.= 8.4	-14	-0.01704	2.5

LTE Band 26(824-849)

QPSK, 15.0 MHz,Middle channel				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	2	0.00239	2.5
-20		-9	-0.01076	2.5
-10		-9	-0.01076	2.5
0		-3	-0.00359	2.5
10		-11	-0.01315	2.5
20		3	0.00359	2.5
30		-9	-0.01076	2.5
40		-6	-0.00717	2.5
50		-1	-0.0012	2.5
20	V min.= 7.0	-2	-0.00239	2.5
20	V max.= 8.4	-13	-0.01554	2.5

16-QAM, 15.0 MHz,Middle channel				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	-1	-0.0012	2.5
-20		-8	-0.00956	2.5
-10		-8	-0.00956	2.5
0		-3	-0.00359	2.5
10		-12	-0.01435	2.5
20		2	0.00239	2.5
30		-10	-0.01195	2.5
40		-7	-0.00837	2.5
50		-3	-0.00359	2.5
20	V min.= 7.0	-3	-0.00359	2.5
20	V max.= 8.4	-15	-0.01793	2.5

LTE Band 41:

QPSK, 20 MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2496.03328	2689.93855	2496	2690
-20		2496.03258	2689.93854	2496	2690
-10		2496.03118	2689.93680	2496	2690
0		2496.03274	2689.93919	2496	2690
10		2496.03250	2689.93800	2496	2690
20		2496.03287	2689.93869	2496	2690
30		2496.03178	2689.93689	2496	2690
40		2496.03364	2689.93895	2496	2690
50		2496.03183	2689.93715	2496	2690
20	V min.= 7.0	2496.03170	2689.93756	2496	2690
20	V max.= 8.4	2496.03105	2689.93641	2496	2690

16-QAM, 20 MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	2496.10356	2689.96863	2496	2690
-20		2496.10298	2689.96829	2496	2690
-10		2496.10207	2689.96761	2496	2690
0		2496.10385	2689.96921	2496	2690
10		2496.10260	2689.96800	2496	2690
20		2496.10349	2689.96827	2496	2690
30		2496.10247	2689.96711	2496	2690
40		2496.10333	2689.96815	2496	2690
50		2496.10172	2689.96669	2496	2690
20	V min.= 7.0	2496.10342	2689.96762	2496	2690
20	V max.= 8.4	2496.10168	2689.96605	2496	2690

LTE Band 66:

QPSK, 20MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1710.05225	1779.92533	1710	1780
-20		1710.05158	1779.92623	1710	1780
-10		1710.05038	1779.92465	1710	1780
0		1710.05233	1779.92601	1710	1780
10		1710.05112	1779.92500	1710	1780
20		1710.05219	1779.92506	1710	1780
30		1710.05039	1779.92486	1710	1780
40		1710.05180	1779.92512	1710	1780
50		1710.05080	1779.92468	1710	1780
20	V min.= 7.0	1710.05189	1779.92408	1710	1780
20	V max.= 8.4	1710.05035	1779.92439	1710	1780

16QAM, 20MHz, low channel& high channel					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	7.4	1710.05569	1779.94269	1710	1780
-20		1710.05599	1779.94297	1710	1780
-10		1710.05451	1779.94113	1710	1780
0		1710.05658	1779.94293	1710	1780
10		1710.05540	1779.94180	1710	1780
20		1710.05660	1779.94227	1710	1780
30		1710.05413	1779.94058	1710	1780
40		1710.05646	1779.94282	1710	1780
50		1710.05499	1779.94064	1710	1780
20	V min.= 7.0	1710.05567	1779.94204	1710	1780
20	V max.= 8.4	1710.05350	1779.93998	1710	1780

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

******* END OF REPORT *******