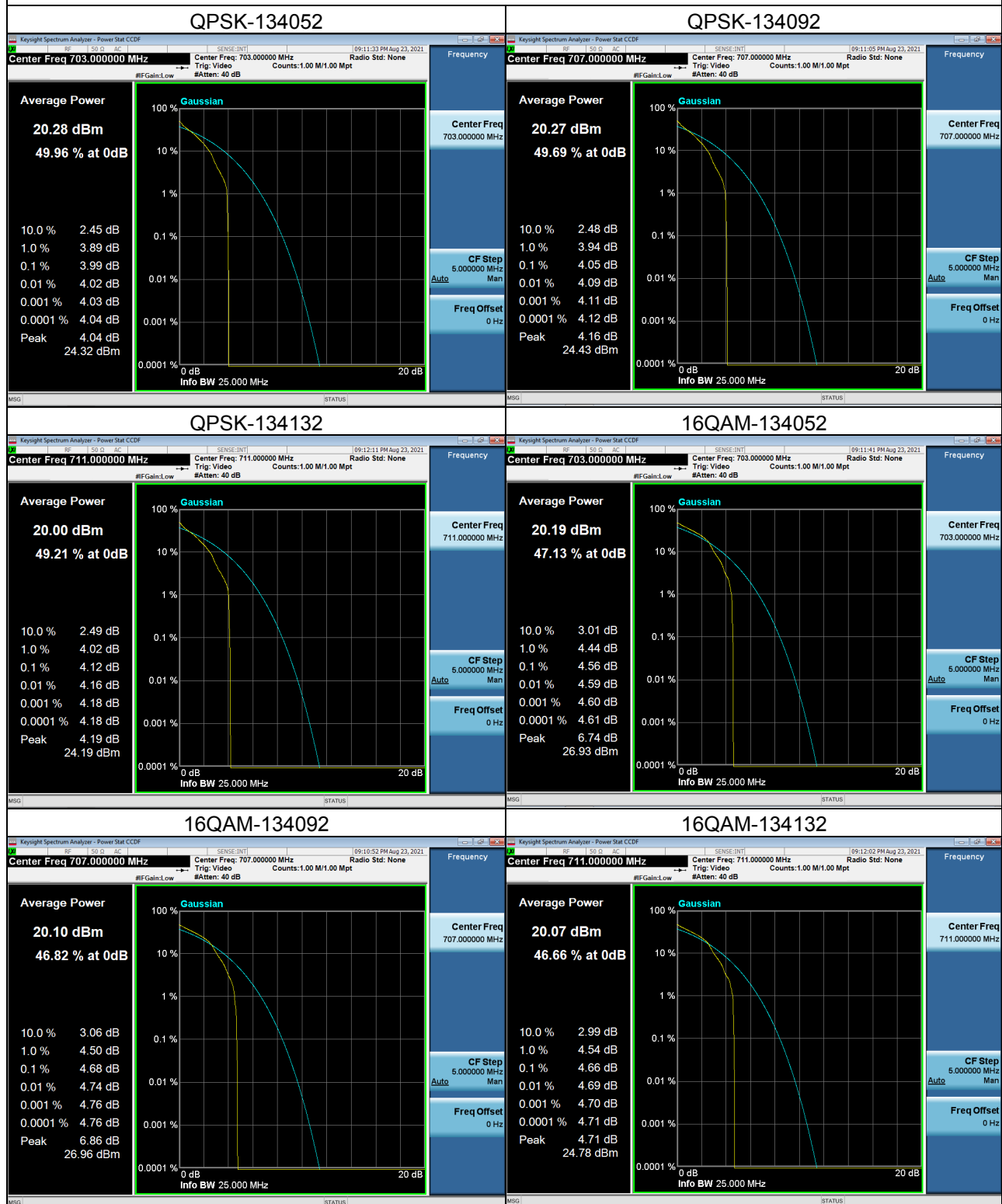


LTE Band 85_5M Spectrum Plot



LTE Band 85_10M Spectrum Plot



APPENDIX I - FREQUENCY STABILITY

Test Mode	LTE Band 4_CH20175_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-8.73	-0.005038961	± 2.5
-20	5.66	0.003266955	
-10	-8.73	-0.005038961	
0	2.90	0.001673882	
10	-2.13	-0.001229437	
20	8.62	0.004975469	
30	-6.96	-0.004017316	
40	-7.97	-0.004600289	
50	7.92	0.004571429	
Max. Deviation (ppm)	-8.73	-0.005038961	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.32	0.000761905	± 2.5
3.6	-8.93	-0.005154401	
2.0	2.21	0.001275613	
Max. Deviation (ppm)	-8.93	-0.005154401	

Test Mode	LTE Band 4_CH20175_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.49	-0.00201443	± 2.5
-20	7.33	0.00423088	
-10	-9.11	-0.005258297	
0	-1.59	-0.000917749	
10	9.48	0.005471861	
20	3.38	0.001950938	
30	8.44	0.004871573	
40	-5.26	-0.003036075	
50	-3.21	-0.001852814	
Max. Deviation (ppm)	9.48	0.005471861	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.63	0.001518038	± 2.5
3.6	2.07	0.001194805	
2.0	1.08	0.000623377	
Max. Deviation (ppm)	2.63	0.001518038	

Test Mode	LTE Band 4_CH20175_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.83	-0.001633478	± 2.5
-20	0.26	0.000150072	
-10	-5.82	-0.003359307	
0	-0.55	-0.00031746	
10	-6.34	-0.003659452	
20	-3.42	-0.001974026	
30	-1.62	-0.000935065	
40	-7.31	-0.004219336	
50	-1.90	-0.001096681	
Max. Deviation (ppm)	-7.31	-0.004219336	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	8.08	0.004663781	± 2.5
3.6	8.33	0.004808081	
2.0	-2.35	-0.001356421	
Max. Deviation (ppm)	8.33	0.004808081	

Test Mode	LTE Band 4_CH20175_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	7.96	0.004594517	± 2.5
-20	-2.98	-0.001720058	
-10	-1.40	-0.000808081	
0	-9.87	-0.00569697	
10	8.71	0.005027417	
20	3.66	0.002112554	
30	7.86	0.004536797	
40	5.55	0.003203463	
50	-2.81	-0.001621934	
Max. Deviation (ppm)	-9.87	-0.00569697	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.05	0.001183261	± 2.5
3.6	7.29	0.004207792	
2.0	-5.86	-0.003382395	
Max. Deviation (ppm)	7.29	0.004207792	

Test Mode	LTE Band 4_CH20175_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	8.19	0.004727273	± 2.5
-20	0.74	0.000427128	
-10	6.80	0.003924964	
0	7.14	0.004121212	
10	-7.84	-0.004525253	
20	-4.26	-0.002458874	
30	0.92	0.000531025	
40	-0.98	-0.000565657	
50	-1.15	-0.000663781	
Max. Deviation (ppm)	-7.84	-0.004525253	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-9.36	-0.005402597	± 2.5
3.6	-9.98	-0.005760462	
2.0	-0.64	-0.000369408	
Max. Deviation (ppm)	-9.98	-0.005760462	

Test Mode	LTE Band 4_CH20175_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	9.94	0.005737374	± 2.5
-20	-6.72	-0.003878788	
-10	-8.74	-0.005044733	
0	8.02	0.004629149	
10	-2.04	-0.001177489	
20	1.83	0.001056277	
30	-1.10	-0.000634921	
40	-0.73	-0.000421356	
50	2.75	0.001587302	
Max. Deviation (ppm)	-8.74	-0.005044733	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	8.72	0.005033189	± 2.5
3.6	-9.73	-0.005616162	
2.0	7.37	0.004253968	
Max. Deviation (ppm)	-9.73	-0.005616162	

Test Mode	LTE Band 12_CH23095_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-0.96	0.00135689	± 2.5
-20	-6.97	0.00985159	
-10	-1.58	0.002233216	
0	-9.10	0.012862191	
10	-9.00	0.012720848	
20	8.46	0.011957597	
30	3.02	0.004268551	
40	4.08	0.005766784	
50	-7.81	0.011038869	
Max. Deviation (ppm)	-9.1	0.012862191	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.01	0.007081272	± 2.5
3.6	-4.13	0.005837456	
2.0	-6.86	0.009696113	
Max. Deviation (ppm)	-6.86	0.009696113	

Test Mode	LTE Band 12_CH23095_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-8.95	0.012650177	± 2.5
-20	-5.31	0.0075053	
-10	5.04	0.007123675	
0	4.68	0.006614841	
10	4.12	0.005823322	
20	6.18	0.008734982	
30	2.71	0.003830389	
40	-4.68	0.006614841	
50	-1.81	0.002558304	
Max. Deviation (ppm)	6.18	0.008734982	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-9.24	0.013060071	± 2.5
3.6	-0.47	0.000664311	
2.0	-5.09	0.007194346	
Max. Deviation (ppm)	-9.24	0.013060071	

Test Mode	LTE Band 12_CH23095_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	7.51	0.010614841	± 2.5
-20	-1.69	-0.002388693	
-10	-2.25	-0.003180212	
0	4.31	0.006091873	
10	-0.98	-0.001385159	
20	-9.48	-0.013399293	
30	-9.84	-0.013908127	
40	-6.32	-0.008932862	
50	-7.96	-0.011250883	
Max. Deviation (ppm)	-9.84	-0.013908127	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.91	-0.008353357	± 2.5
3.6	0.54	0.000763251	
2.0	-0.48	-0.000678445	
Max. Deviation (ppm)	-5.91	-0.008353357	

Test Mode	LTE Band 12_CH23095_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.07	-0.002925795	± 2.5
-20	-4.55	-0.006431095	
-10	4.82	0.006812721	
0	-6.56	-0.009272085	
10	-2.93	-0.004141343	
20	-9.68	-0.013681979	
30	-5.61	-0.007929329	
40	-3.23	-0.004565371	
50	-8.77	-0.01239576	
Max. Deviation (ppm)	-9.68	-0.013681979	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.40	0.001978799	± 2.5
3.6	4.01	0.005667845	
2.0	9.83	0.013893993	
Max. Deviation (ppm)	9.83	0.013893993	

Test Mode	LTE Band 13_CH23230_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-0.09	-0.00011509	± 2.5
-20	4.68	0.005984655	
-10	-1.79	-0.002289003	
0	-6.62	-0.008465473	
10	-7.38	-0.00943734	
20	-5.94	-0.007595908	
30	-4.67	-0.005971867	
40	-7.10	-0.009079284	
50	8.86	0.011329923	
Max. Deviation (ppm)	8.86	0.011329923	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	7.21	0.009219949	± 2.5
3.6	-1.74	-0.002225064	
2.0	-9.46	-0.012097187	
Max. Deviation (ppm)	-9.46	-0.012097187	

Test Mode	LTE Band 13_CH23230_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.52	0.001943734	± 2.5
-20	-4.44	-0.005677749	
-10	8.57	0.010959079	
0	2.27	0.002902813	
10	-4.13	-0.00528133	
20	9.37	0.011982097	
30	5.22	0.006675192	
40	-5.05	-0.006457801	
50	-7.10	-0.009079284	
Max. Deviation (ppm)	9.37	0.011982097	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-8.16	-0.010434783	± 2.5
3.6	7.79	0.009961637	
2.0	-9.19	-0.011751918	
Max. Deviation (ppm)	-9.19	-0.011751918	

Test Mode	LTE Band 66_CH132322_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.17	-0.001816619	± 2.5
-20	-2.27	-0.00130086	
-10	6.14	0.003518625	
0	9.23	0.005289398	
10	-0.50	-0.000286533	
20	-9.86	-0.00565043	
30	5.86	0.003358166	
40	-5.59	-0.003203438	
50	4.33	0.002481375	
Max. Deviation (ppm)	-9.86	-0.00565043	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-0.27	-0.000154728	± 2.5
3.6	9.16	0.005249284	
2.0	5.95	0.003409742	
Max. Deviation (ppm)	9.16	0.005249284	

Test Mode	LTE Band 66_CH132322_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.97	0.003994269	± 2.5
-20	9.77	0.005598854	
-10	-2.09	-0.001197708	
0	7.86	0.004504298	
10	-8.00	-0.004584527	
20	5.98	0.003426934	
30	2.92	0.001673352	
40	-2.85	-0.001633238	
50	8.20	0.00469914	
Max. Deviation (ppm)	9.77	0.005598854	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.07	-0.002905444	± 2.5
3.6	6.66	0.003816619	
2.0	4.13	0.002366762	
Max. Deviation (ppm)	6.66	0.003816619	

Test Mode	LTE Band 66_CH132322_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	0.94	0.000538682	± 2.5
-20	-2.95	-0.001690544	
-10	5.00	0.00286533	
0	4.82	0.002762178	
10	3.24	0.001856734	
20	-9.81	-0.005621777	
30	-5.48	-0.003140401	
40	-8.10	-0.004641834	
50	4.48	0.002567335	
Max. Deviation (ppm)	-9.81	-0.005621777	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-8.38	-0.004802292	± 2.5
3.6	6.14	0.003518625	
2.0	3.06	0.001753582	
Max. Deviation (ppm)	-8.38	-0.004802292	

Test Mode	LTE Band 66_CH132322_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.99	0.004005731	± 2.5
-20	-7.38	-0.004229226	
-10	4.61	0.002641834	
0	-4.53	-0.002595989	
10	-6.54	-0.003747851	
20	6.57	0.003765043	
30	-6.70	-0.003839542	
40	-1.74	-0.000997135	
50	-0.08	-4.58453E-05	
Max. Deviation (ppm)	-7.38	-0.004229226	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-1.02	-0.000584527	± 2.5
3.6	-9.40	-0.005386819	
2.0	7.39	0.004234957	
Max. Deviation (ppm)	-9.4	-0.005386819	

Test Mode	LTE Band 66_CH132322_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.02	-0.001157593	± 2.5
-20	-7.25	-0.004154728	
-10	8.55	0.004899713	
0	7.72	0.004424069	
10	6.79	0.003891117	
20	-1.64	-0.000939828	
30	9.81	0.005621777	
40	-9.82	-0.005627507	
50	-4.84	-0.002773639	
Max. Deviation (ppm)	-9.82	-0.005627507	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-9.94	-0.005696275	± 2.5
3.6	1.13	0.000647564	
2.0	-2.06	-0.001180516	
Max. Deviation (ppm)	-9.94	-0.005696275	

Test Mode	LTE Band 66_CH132322_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	9.13	0.005232092	± 2.5
-20	-0.44	-0.000252149	
-10	7.46	0.004275072	
0	6.25	0.003581662	
10	-4.84	-0.002773639	
20	-8.20	-0.00469914	
30	7.57	0.004338109	
40	-6.86	-0.003931232	
50	-7.06	-0.004045845	
Max. Deviation (ppm)	-8.2	-0.00469914	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-3.78	-0.002166189	± 2.5
3.6	1.55	0.000888252	
2.0	1.58	0.000905444	
Max. Deviation (ppm)	-3.78	-0.002166189	

Test Mode	LTE Band 85_CH134092_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.29	0.003239038	± 2.5
-20	4.18	0.005912306	
-10	-5.45	-0.007708628	
0	5.83	0.00824611	
10	3.53	0.004992928	
20	4.42	0.006251768	
30	-9.32	-0.013182461	
40	8.30	0.011739745	
50	6.19	0.008755304	
Max. Deviation (ppm)	-9.32	-0.013182461	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.14	-0.007270156	± 2.5
3.6	-2.62	-0.003705799	
2.0	-3.44	-0.004865629	
Max. Deviation (ppm)	-5.14	-0.007270156	

Test Mode	LTE Band 85_CH134092_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-4.51	-0.006379066	± 2.5
-20	0.42	0.000594059	
-10	7.68	0.010862801	
0	-0.32	-0.000452617	
10	-6.51	-0.009207921	
20	8.12	0.011485149	
30	0.89	0.00125884	
40	6.97	0.009858557	
50	-2.01	-0.002842999	
Max. Deviation (ppm)	8.12	0.011485149	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.35	0.001909477	± 2.5
3.6	-0.37	-0.000523338	
2.0	-4.71	-0.006661952	
Max. Deviation (ppm)	-4.71	-0.006661952	

End of Test Report