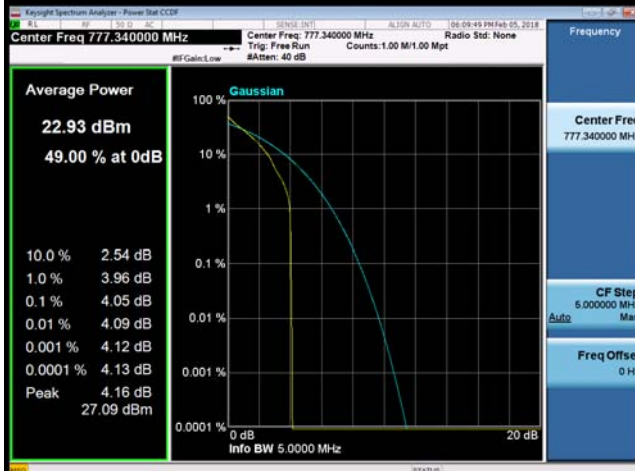
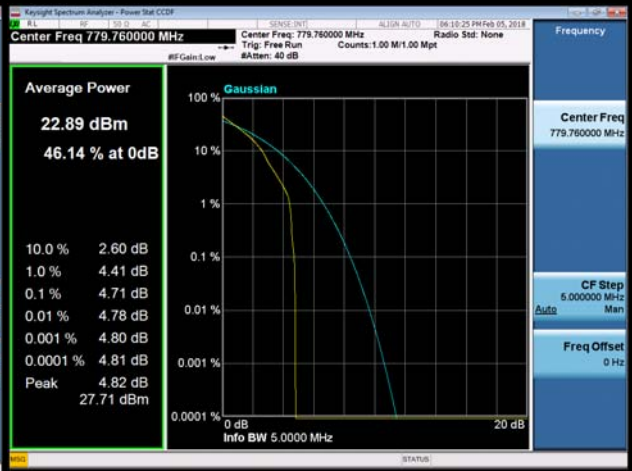


LTE Band 13 Spectrum Plot_5M

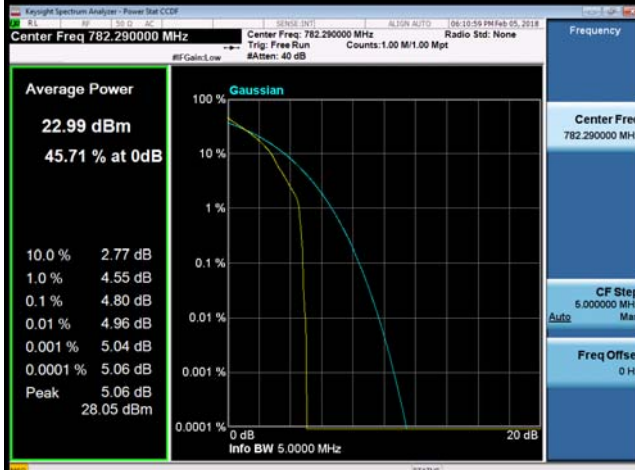
QPSK-23205



QPSK23230



QPSK-23255



16QAM-23205



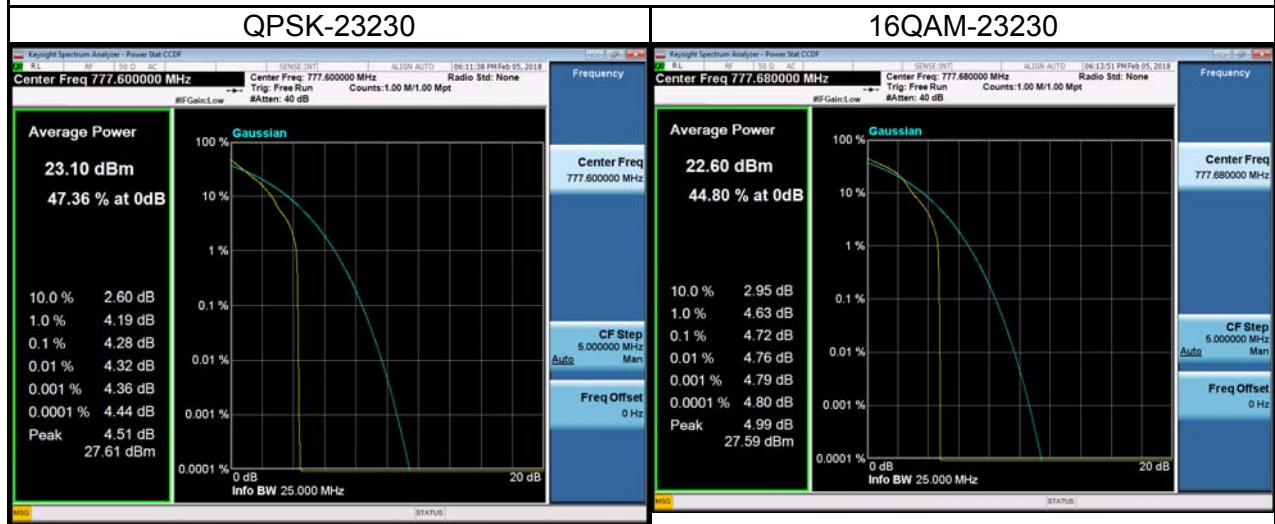
16QAM-23230



16QAM-23255

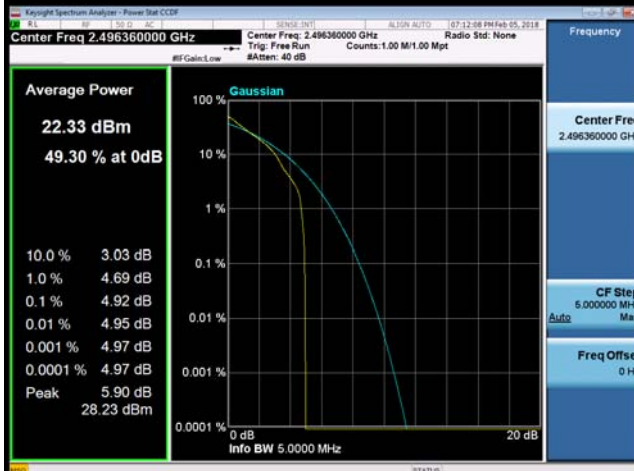


LTE Band 13 Spectrum Plot_10M



LTE Band 41 Spectrum Plot_5M

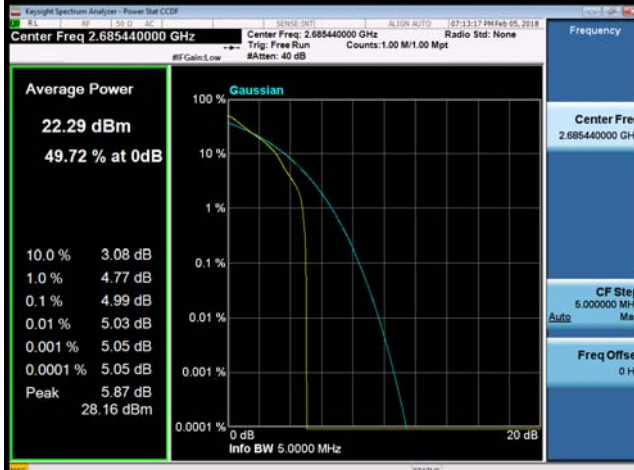
QPSK-39675



QPSK-40620



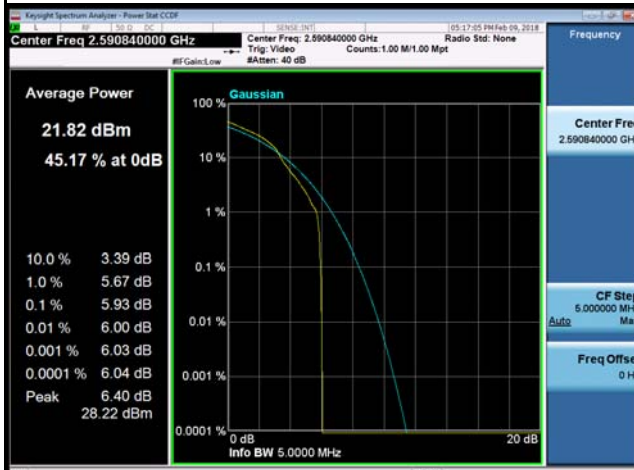
QPSK-41565



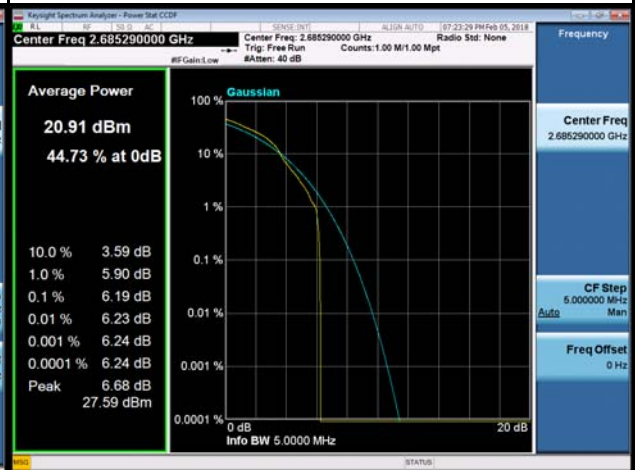
16QAM-39675



16QAM-40620

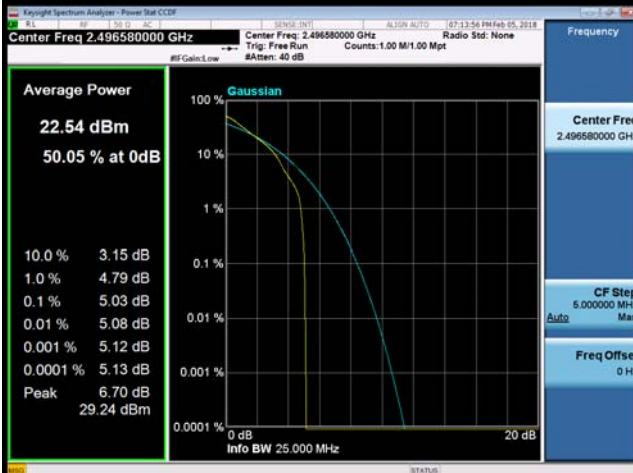


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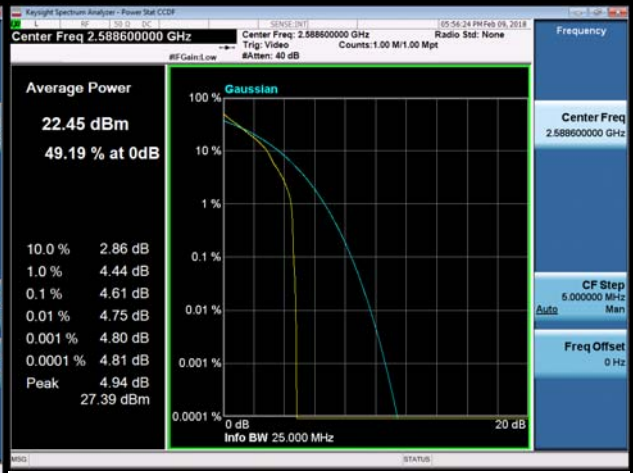


LTE Band 41 Spectrum Plot_10M

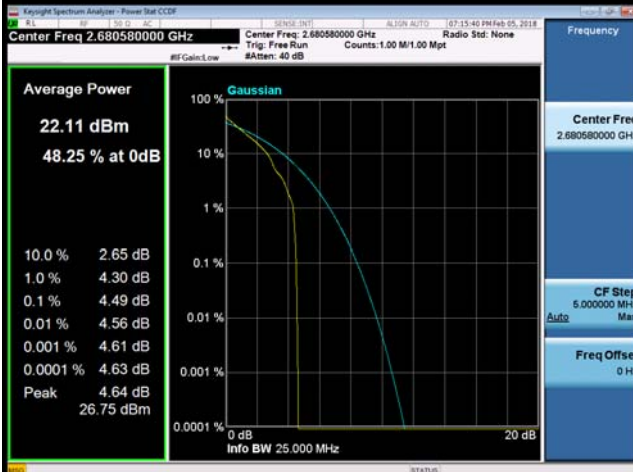
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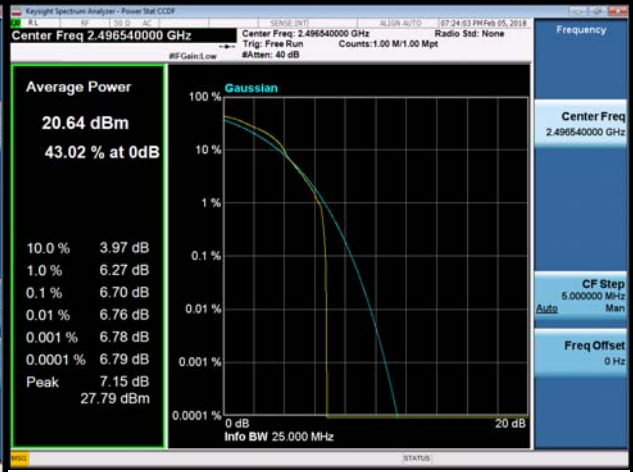
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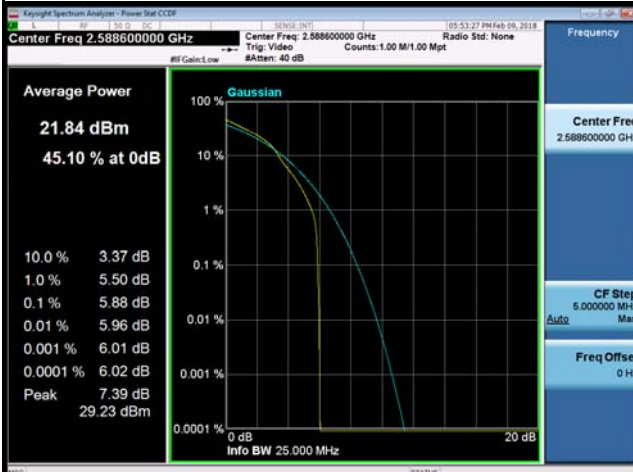
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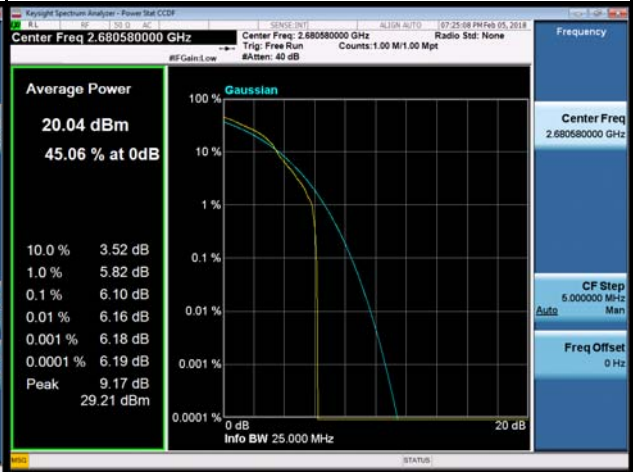
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16QAM-40620

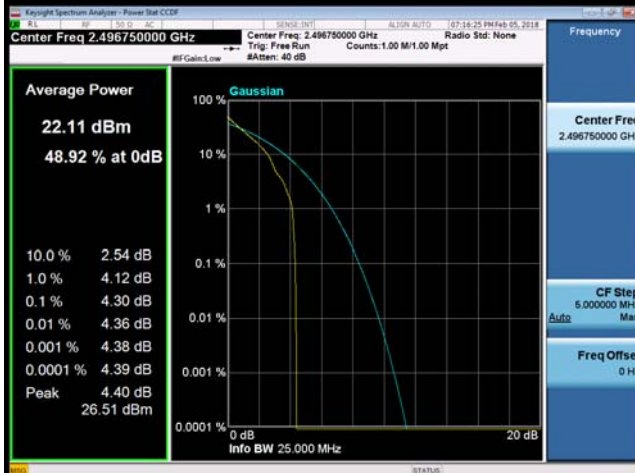


16QAM-41540



LTE Band 41 Spectrum Plot_15M

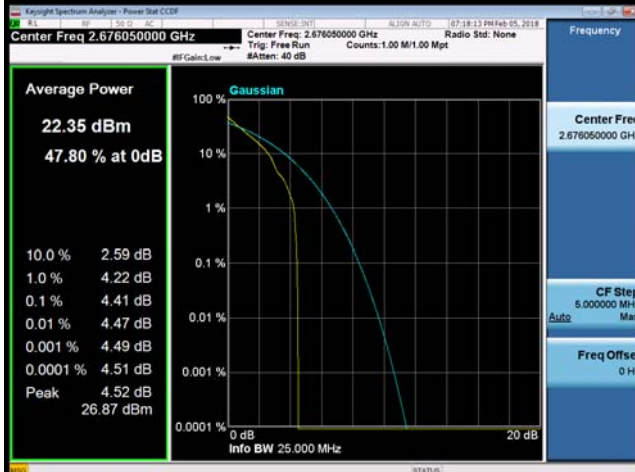
QPSK-39725



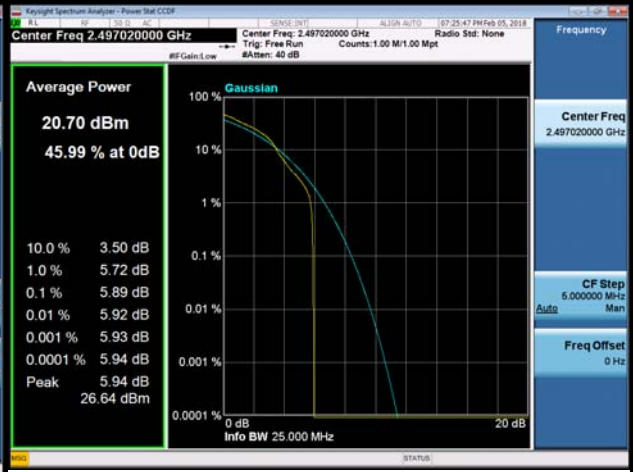
QPSK-40620



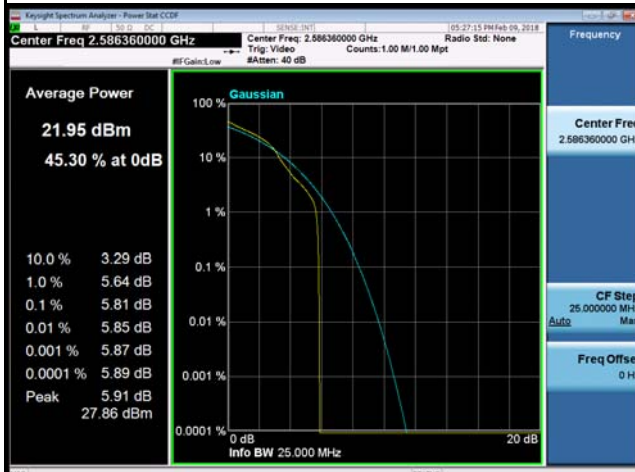
QPSK-41515



16QAM-39725



16QAM-40620

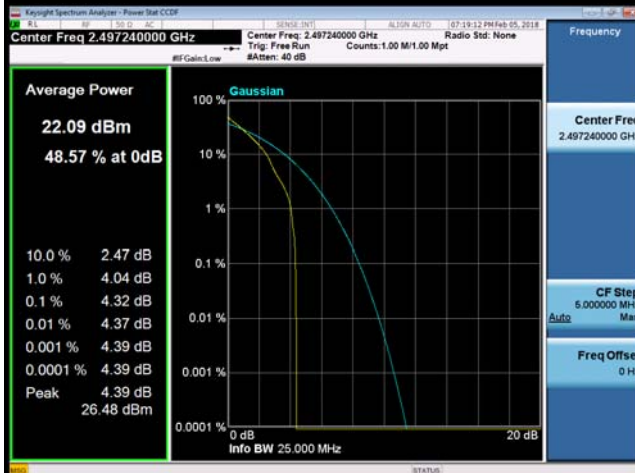


16QAM-41515

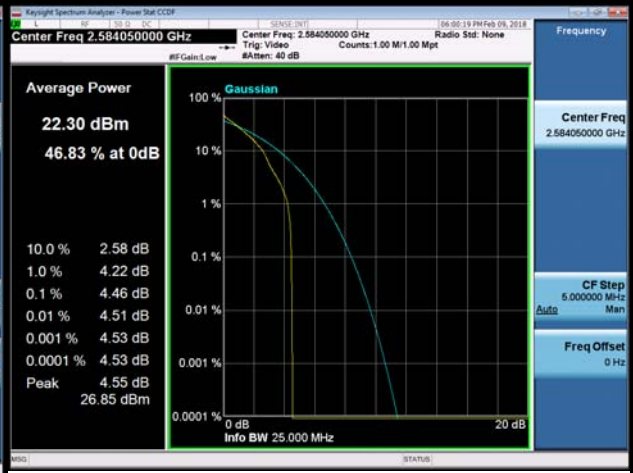


LTE Band 41 Spectrum Plot_20M

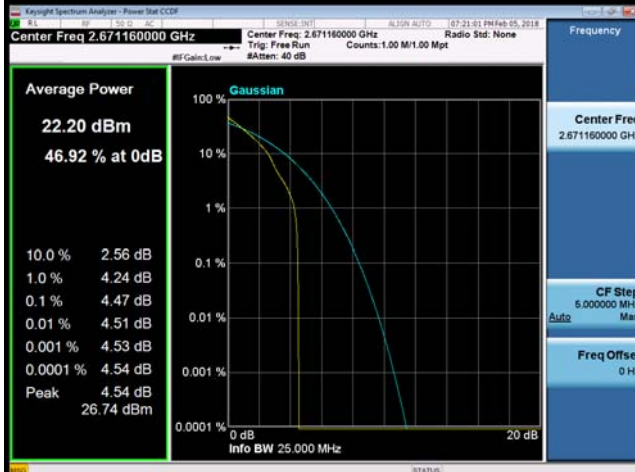
QPSK-39750



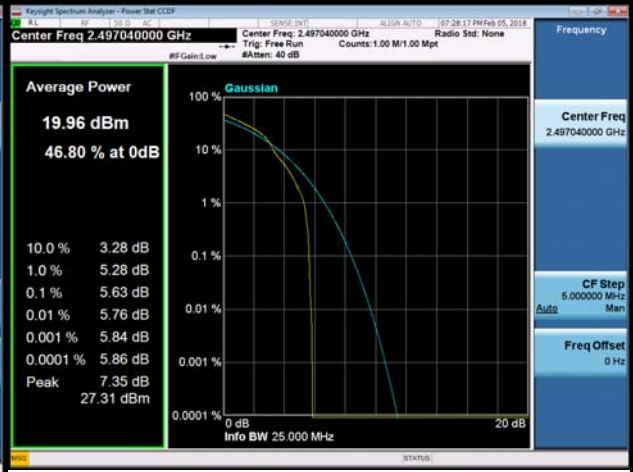
QPSK-40620



QPSK-41490



16QAM-39750



16QAM-40620



16QAM-41490



APPENDIX H - FREQUENCY STABILITY

Test Mode:	WCDMA Band 4_CH1413
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.34	0.001927739	2.5
-20	2.12	0.001223595	2.5
-10	5.32	0.003070530	2.5
0	2.77	0.001598753	2.5
10	3.56	0.002054715	2.5
20	2.79	0.001610297	2.5
30	3.47	0.002002770	2.5
40	4.64	0.002678056	2.5
50	5.25	0.003030128	2.5
Max. Deviation (ppm)	5.32	0.003070530	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	3.41	0.001968140	2.5
7.68	3.61	0.002083574	2.5
6.5	5.79	0.003341798	2.5
Max. Deviation (ppm)	5.79	0.003341798	2.5

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	3.18	0.001835498	2.5
-20	-2.48	0.001431457	2.5
-10	-3.51	0.002025974	2.5
0	4.81	0.002776335	2.5
10	5.38	0.003105339	2.5
20	-3.89	0.002245310	2.5
30	-4.00	0.002308802	2.5
40	3.06	0.001766234	2.5
50	-6.18	0.003567100	2.5
Max. Deviation (ppm)	6.18	0.003567100	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	7.59	0.004380952	2.5
7.68	-3.20	0.001847042	2.5
6.5	-2.63	0.001518038	2.5
Max. Deviation (ppm)	7.59	0.004380952	2.5

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	-4.58	0.002643579	2.5
-20	3.73	0.002152958	2.5
-10	-4.68	0.002701299	2.5
0	0.68	0.000392496	2.5
10	-6.29	0.003630592	2.5
20	-2.76	0.001593074	2.5
30	3.33	0.001922078	2.5
40	5.81	0.003353535	2.5
50	-6.37	0.003676768	2.5
Max. Deviation (ppm)	6.37	0.003676768	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-5.81	0.003353535	2.5
7.68	-6.62	0.003821068	2.5
6.5	3.56	0.002054834	2.5
Max. Deviation (ppm)	6.62	0.003821068	2.5

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	-3.48	0.002008658	2.5
-20	5.52	0.003186147	2.5
-10	-3.59	0.002072150	2.5
0	-10.57	0.006101010	2.5
10	4.72	0.002724387	2.5
20	-3.28	0.001893218	2.5
30	-1.10	0.000634921	2.5
40	-6.43	0.003711400	2.5
50	-3.81	0.002199134	2.5
Max. Deviation (ppm)	10.57	0.006101010	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	4.21	0.002430014	2.5
7.68	3.59	0.002072150	2.5
6.5	4.38	0.002528139	2.5
Max. Deviation (ppm)	4.38	0.002528139	2.5

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	3.38	0.001950938	2.5
-20	6.48	0.003740260	2.5
-10	5.57	0.003215007	2.5
0	3.86	0.002227994	2.5
10	6.00	0.003463203	2.5
20	0.48	0.000277056	2.5
30	5.25	0.003030303	2.5
40	0.93	0.000536797	2.5
50	6.96	0.004017316	2.5
Max. Deviation (ppm)	6.96	0.004017316	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-2.19	0.001264069	2.5
7.68	-3.68	0.002124098	2.5
6.5	4.81	0.002776335	2.5
Max. Deviation (ppm)	4.81	0.002776335	2.5

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	4.28	0.002470418	2.5
-20	2.05	0.001183261	2.5
-10	4.81	0.002776335	2.5
0	4.37	0.002522367	2.5
10	-2.44	0.001408369	2.5
20	3.33	0.001922078	2.5
30	-3.71	0.002141414	2.5
40	-2.53	0.001460317	2.5
50	-6.48	0.003740260	2.5
Max. Deviation (ppm)	6.48	0.003740260	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	6.18	0.003567100	2.5
7.68	2.13	0.001229437	2.5
6.5	-3.74	0.002158730	2.5
Max. Deviation (ppm)	6.18	0.003567100	2.5

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	3.59	0.002072150	2.5
-20	4.58	0.002643579	2.5
-10	3.48	0.002008658	2.5
0	-3.18	0.001835498	2.5
10	-7.59	0.004380952	2.5
20	6.48	0.003740260	2.5
30	-3.01	0.001737374	2.5
40	5.08	0.002932179	2.5
50	-3.80	0.002193362	2.5
Max. Deviation (ppm)	7.59	0.004380952	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	5.13	0.002961039	2.5
7.68	-4.00	0.002308802	2.5
6.5	2.15	0.001240981	2.5
Max. Deviation (ppm)	5.13	0.002961039	2.5

Test Mode:	LTE Band 7_CH21100_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.71	0.001069034	2.5
-20	6.58	0.002595661	2.5
-10	-2.47	0.000974359	2.5
0	3.82	0.001506903	2.5
10	-6.47	0.002552268	2.5
20	3.72	0.001467456	2.5
30	4.81	0.001897436	2.5
40	-2.79	0.001100592	2.5
50	-1.02	0.000402367	2.5
Max. Deviation (ppm)	6.58	0.002595661	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-0.99	0.000390533	2.5
7.68	1.64	0.000646943	2.5
6.5	2.87	0.001132150	2.5
Max. Deviation (ppm)	2.87	0.001132150	2.5

Test Mode:	LTE Band 7_CH21100_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.21	0.001660750	2.5
-20	2.58	0.001017751	2.5
-10	3.47	0.001368836	2.5
0	1.64	0.000646943	2.5
10	2.70	0.001065089	2.5
20	3.91	0.001542406	2.5
30	2.08	0.000820513	2.5
40	2.49	0.000982249	2.5
50	-2.04	0.000804734	2.5
Max. Deviation (ppm)	4.21	0.001660750	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-2.16	0.000852071	2.5
7.68	4.43	0.001747535	2.5
6.5	-2.71	0.001069034	2.5
Max. Deviation (ppm)	4.43	0.001747535	2.5

Test Mode:	LTE Band 7_CH21100_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.19	0.002047337	2.5
-20	-4.17	0.001644970	2.5
-10	-2.71	0.001069034	2.5
0	2.61	0.001029586	2.5
10	3.01	0.001187377	2.5
20	-2.71	0.001069034	2.5
30	3.73	0.001471400	2.5
40	4.08	0.001609467	2.5
50	2.16	0.000852071	2.5
Max. Deviation (ppm)	5.19	0.002047337	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	4.21	0.001660750	2.5
7.68	5.47	0.002157791	2.5
6.5	3.32	0.001309665	2.5
Max. Deviation (ppm)	5.47	0.002157791	2.5

Test Mode:	LTE Band 7_CH21100_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-5.20	0.002051282	2.5
-20	-3.85	0.001518738	2.5
-10	4.31	0.001700197	2.5
0	2.22	0.000875740	2.5
10	-7.30	0.002879684	2.5
20	-6.41	0.002528600	2.5
30	3.29	0.001297830	2.5
40	-2.47	0.000974359	2.5
50	-3.48	0.001372781	2.5
Max. Deviation (ppm)	7.30	0.002879684	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-5.14	0.002027613	2.5
7.68	-4.23	0.001668639	2.5
6.5	3.79	0.001495069	2.5
Max. Deviation (ppm)	5.14	0.002027613	2.5

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	4.28	0.006049470	2.5
-20	3.41	0.004819788	2.5
-10	5.28	0.007462898	2.5
0	6.19	0.008749117	2.5
10	-3.08	0.004353357	2.5
20	2.09	0.002954064	2.5
30	3.75	0.005300353	2.5
40	6.48	0.009159011	2.5
50	-2.54	0.003590106	2.5
Max. Deviation (ppm)	6.48	0.009159011	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	2.87	0.004056537	2.5
7.68	-4.09	0.005780919	2.5
6.5	-3.43	0.004848057	2.5
Max. Deviation (ppm)	4.09	0.005780919	2.5

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	4.65	0.006572438	2.5
-20	5.66	0.008000000	2.5
-10	-1.58	0.002233216	2.5
0	-6.72	0.009498233	2.5
10	-3.28	0.004636042	2.5
20	1.28	0.001809187	2.5
30	3.27	0.004621908	2.5
40	4.96	0.007010601	2.5
50	-6.72	0.009498233	2.5
Max. Deviation (ppm)	6.72	0.009498233	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	3.23	0.004565371	2.5
7.68	6.81	0.009625442	2.5
6.5	-8.29	0.011717314	2.5
Max. Deviation (ppm)	8.29	0.011717314	2.5

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	2.36	0.003335689	2.5
-20	6.57	0.009286219	2.5
-10	1.58	0.002233216	2.5
0	-3.22	0.004551237	2.5
10	-3.68	0.005201413	2.5
20	4.29	0.006063604	2.5
30	5.14	0.007265018	2.5
40	1.29	0.001823322	2.5
50	4.27	0.006035336	2.5
Max. Deviation (ppm)	6.57	0.009286219	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-1.28	0.001809187	2.5
7.68	3.92	0.005540636	2.5
6.5	-4.37	0.006176678	2.5
Max. Deviation (ppm)	4.37	0.006176678	2.5

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	4.58	0.006473498	2.5
-20	-2.71	0.003830389	2.5
-10	-2.81	0.003971731	2.5
0	-4.26	0.006021201	2.5
10	-3.18	0.004494700	2.5
20	-2.07	0.002925795	2.5
30	3.43	0.004848057	2.5
40	5.18	0.007321555	2.5
50	4.12	0.005823322	2.5
Max. Deviation (ppm)	5.18	0.007321555	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	4.28	0.006049470	2.5
7.68	-3.57	0.005045936	2.5
6.5	6.36	0.008989399	2.5
Max. Deviation (ppm)	6.36	0.008989399	2.5

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	-3.76	0.004808184	2.5
-20	3.38	0.004322251	2.5
-10	-4.96	0.006342711	2.5
0	1.13	0.001445013	2.5
10	-3.84	0.004910486	2.5
20	3.55	0.004539642	2.5
30	-6.06	0.007749361	2.5
40	-2.78	0.003554987	2.5
50	1.86	0.002378517	2.5
Max. Deviation (ppm)	6.06	0.007749361	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	3.61	0.004616368	2.5
7.68	-2.01	0.002570332	2.5
6.5	-1.13	0.001445013	2.5
Max. Deviation (ppm)	3.61	0.004616368	2.5

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	-2.16	0.002762148	2.5
-20	-3.21	0.004104859	2.5
-10	2.41	0.003081841	2.5
0	-1.33	0.001700767	2.5
10	2.51	0.003209719	2.5
20	3.68	0.004705882	2.5
30	-1.59	0.002033248	2.5
40	1.46	0.001867008	2.5
50	-3.66	0.004680307	2.5
Max. Deviation (ppm)	3.68	0.004705882	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-2.96	0.003785166	2.5
7.68	-3.52	0.004501279	2.5
6.5	3.27	0.004181586	2.5
Max. Deviation (ppm)	3.52	0.004501279	2.5

Test Mode:	LTE Band 41_CH40620_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.53	0.000975704	2.5
-20	3.42	0.001318936	2.5
-10	-2.18	0.000840725	2.5
0	-5.11	0.001970690	2.5
10	3.45	0.001330505	2.5
20	4.28	0.001650598	2.5
30	-3.25	0.001253374	2.5
40	3.83	0.001477054	2.5
50	3.15	0.001214809	2.5
Max. Deviation (ppm)	5.11	0.001970690	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-2.47	0.000952565	2.5
7.68	2.66	0.001025839	2.5
6.5	-2.07	0.000798303	2.5
Max. Deviation (ppm)	2.66	0.001025839	2.5

Test Mode:	LTE Band 41_CH40620_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.55	0.000983417	2.5
-20	5.81	0.002240648	2.5
-10	3.33	0.001284227	2.5
0	-5.16	0.001989973	2.5
10	-3.28	0.001264944	2.5
20	2.77	0.001068261	2.5
30	-3.42	0.001318936	2.5
40	3.42	0.001318936	2.5
50	-2.12	0.000817586	2.5
Max. Deviation (ppm)	5.81	0.002240648	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	4.72	0.001820285	2.5
7.68	3.64	0.001403779	2.5
6.5	-2.32	0.000894717	2.5
Max. Deviation (ppm)	4.72	0.001820285	2.5

Test Mode:	LTE Band 41_CH40620_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.98	0.001921	2.5
-20	2.25	0.000868	2.5
-10	-6.17	0.002379	2.5
0	3.40	0.001311	2.5
10	3.71	0.001431	2.5
20	-5.63	0.002171	2.5
30	2.58	0.000995	2.5
40	2.62	0.001010	2.5
50	3.67	0.001415	2.5
Max. Deviation (ppm)	6.17	0.002379	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	2.18	0.000841	2.5
7.68	-5.09	0.001963	2.5
6.5	4.50	0.001735	2.5
Max. Deviation (ppm)	5.09	0.001963	2.5

Test Mode:	LTE Band 41_CH40620_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.34	0.000902	2.5
-20	3.36	0.001296	2.5
-10	2.94	0.001134	2.5
0	6.29	0.002426	2.5
10	-4.77	0.001840	2.5
20	-4.20	0.001620	2.5
30	3.08	0.001188	2.5
40	4.17	0.001608	2.5
50	5.57	0.002148	2.5
Max. Deviation (ppm)	6.29	0.002426	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	7.58	0.002923	2.5
7.68	6.67	0.002572	2.5
6.5	6.81	0.002626	2.5
Max. Deviation (ppm)	7.58	0.002923	2.5