

Appendix T

Frequency Stability

Band	PCC Freq (MHz)	SCC Freq (MHz)	Modulation	PCC_Deviation (Hz)	PCC_Deviation (ppm)	SCC_Deviation (Hz)	SCC_Deviation (ppm)	Limit (ppm)	Verdict	Environment
CA_5B	831.6	841.5	QPSK	6.77	0.00814	-19.51	-0.02319	±2.5	PASS	20°C/3.45V
CA_5B	831.6	841.5	16QAM	10.80	0.01298	-14.19	-0.01687	±2.5	PASS	20°C/3.45V
CA_5B	831.6	841.5	QPSK	-0.11	-0.00014	7.78	0.00925	±2.5	PASS	20°C/4.5V
CA_5B	831.6	841.5	16QAM	11.43	0.01374	-4.45	-0.00529	±2.5	PASS	20°C/4.5V
CA_5B	831.6	841.5	QPSK	1.58	0.00190	2.20	0.00262	±2.5	PASS	50°C/3.91V
CA_5B	831.6	841.5	16QAM	-11.14	-0.01340	-10.04	-0.01193	±2.5	PASS	50°C/3.91V
CA_5B	831.6	841.5	QPSK	13.65	0.01641	-14.88	-0.01768	±2.5	PASS	40°C/3.91V
CA_5B	831.6	841.5	16QAM	15.35	0.01845	0.07	0.00008	±2.5	PASS	40°C/3.91V
CA_5B	831.6	841.5	QPSK	-12.58	-0.01512	8.24	0.00979	±2.5	PASS	30°C/3.91V
CA_5B	831.6	841.5	16QAM	-19.17	-0.02305	-17.84	-0.02120	±2.5	PASS	30°C/3.91V
CA_5B	831.6	841.5	QPSK	-10.75	-0.01293	-13.26	-0.01576	±2.5	PASS	20°C/3.91V
CA_5B	831.6	841.5	16QAM	-19.21	-0.02310	16.28	0.01935	±2.5	PASS	20°C/3.91V
CA_5B	831.6	841.5	QPSK	7.35	0.00884	6.31	0.00750	±2.5	PASS	10°C/3.91V
CA_5B	831.6	841.5	16QAM	1.31	0.00157	-6.83	-0.00812	±2.5	PASS	10°C/3.91V
CA_5B	831.6	841.5	QPSK	-3.78	-0.00455	14.82	0.01762	±2.5	PASS	0°C/3.91V
CA_5B	831.6	841.5	16QAM	-18.93	-0.02276	13.29	0.01579	±2.5	PASS	0°C/3.91V
CA_5B	831.6	841.5	QPSK	-5.70	-0.00686	17.47	0.02076	±2.5	PASS	-10°C/3.91V
CA_5B	831.6	841.5	16QAM	15.95	0.01918	-3.93	-0.00467	±2.5	PASS	-10°C/3.91V
CA_5B	831.6	841.5	QPSK	-3.69	-0.00444	11.63	0.01383	±2.5	PASS	-20°C/3.91V
CA_5B	831.6	841.5	16QAM	3.36	0.00404	-11.52	-0.01369	±2.5	PASS	-20°C/3.91V
CA_5B	831.6	841.5	QPSK	12.67	0.01524	-11.44	-0.01359	±2.5	PASS	-30°C/3.91V
CA_5B	831.6	841.5	16QAM	8.73	0.01050	-11.09	-0.01318	±2.5	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_7C	2500/2570	QPSK	2500.064	2500	2569.857	2570	PASS	20°C/3.45V
CA_7C	2500/2570	16QAM	2500.074	2500	2569.939	2570	PASS	20°C/3.45V
CA_7C	2500/2570	QPSK	2500.173	2500	2569.883	2570	PASS	20°C/4.5V
CA_7C	2500/2570	16QAM	2500.107	2500	2569.877	2570	PASS	20°C/4.5V
CA_7C	2500/2570	QPSK	2500.043	2500	2569.916	2570	PASS	50°C/3.91V
CA_7C	2500/2570	16QAM	2500.200	2500	2569.896	2570	PASS	50°C/3.91V
CA_7C	2500/2570	QPSK	2500.102	2500	2569.804	2570	PASS	40°C/3.91V
CA_7C	2500/2570	16QAM	2500.145	2500	2569.842	2570	PASS	40°C/3.91V
CA_7C	2500/2570	QPSK	2500.071	2500	2569.871	2570	PASS	30°C/3.91V
CA_7C	2500/2570	16QAM	2500.071	2500	2569.991	2570	PASS	30°C/3.91V
CA_7C	2500/2570	QPSK	2500.135	2500	2569.928	2570	PASS	20°C/3.91V
CA_7C	2500/2570	16QAM	2500.060	2500	2569.923	2570	PASS	20°C/3.91V
CA_7C	2500/2570	QPSK	2500.085	2500	2569.918	2570	PASS	10°C/3.91V
CA_7C	2500/2570	16QAM	2500.184	2500	2569.854	2570	PASS	10°C/3.91V
CA_7C	2500/2570	QPSK	2500.113	2500	2569.912	2570	PASS	0°C/3.91V
CA_7C	2500/2570	16QAM	2500.163	2500	2569.933	2570	PASS	0°C/3.91V
CA_7C	2500/2570	QPSK	2500.075	2500	2569.887	2570	PASS	-10°C/3.91V
CA_7C	2500/2570	16QAM	2500.094	2500	2569.930	2570	PASS	-10°C/3.91V
CA_7C	2500/2570	QPSK	2500.053	2500	2569.882	2570	PASS	-20°C/3.91V
CA_7C	2500/2570	16QAM	2500.106	2500	2569.872	2570	PASS	-20°C/3.91V
CA_7C	2500/2570	QPSK	2500.137	2500	2569.988	2570	PASS	-30°C/3.91V
CA_7C	2500/2570	16QAM	2500.151	2500	2569.858	2570	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_38C	2570/2620	QPSK	2570.100	2570	2619.863	2620	PASS	20°C/3.45V
CA_38C	2570/2620	16QAM	2570.178	2570	2619.899	2620	PASS	20°C/3.45V
CA_38C	2570/2620	QPSK	2570.107	2570	2619.903	2620	PASS	20°C/4.5V
CA_38C	2570/2620	16QAM	2570.112	2570	2619.889	2620	PASS	20°C/4.5V
CA_38C	2570/2620	QPSK	2570.180	2570	2619.934	2620	PASS	50°C/3.91V
CA_38C	2570/2620	16QAM	2570.006	2570	2619.870	2620	PASS	50°C/3.91V
CA_38C	2570/2620	QPSK	2570.026	2570	2619.940	2620	PASS	40°C/3.91V
CA_38C	2570/2620	16QAM	2570.130	2570	2619.987	2620	PASS	40°C/3.91V
CA_38C	2570/2620	QPSK	2570.071	2570	2619.806	2620	PASS	30°C/3.91V
CA_38C	2570/2620	16QAM	2570.038	2570	2619.897	2620	PASS	30°C/3.91V
CA_38C	2570/2620	QPSK	2570.096	2570	2619.909	2620	PASS	20°C/3.91V
CA_38C	2570/2620	16QAM	2570.071	2570	2619.890	2620	PASS	20°C/3.91V
CA_38C	2570/2620	QPSK	2570.140	2570	2619.875	2620	PASS	10°C/3.91V
CA_38C	2570/2620	16QAM	2570.119	2570	2619.984	2620	PASS	10°C/3.91V
CA_38C	2570/2620	QPSK	2570.019	2570	2619.988	2620	PASS	0°C/3.91V
CA_38C	2570/2620	16QAM	2570.107	2570	2619.929	2620	PASS	0°C/3.91V
CA_38C	2570/2620	QPSK	2570.094	2570	2619.817	2620	PASS	-10°C/3.91V
CA_38C	2570/2620	16QAM	2570.135	2570	2619.832	2620	PASS	-10°C/3.91V
CA_38C	2570/2620	QPSK	2570.061	2570	2619.979	2620	PASS	-20°C/3.91V
CA_38C	2570/2620	16QAM	2570.095	2570	2619.951	2620	PASS	-20°C/3.91V
CA_38C	2570/2620	QPSK	2570.174	2570	2619.810	2620	PASS	-30°C/3.91V
CA_38C	2570/2620	16QAM	2570.009	2570	2619.987	2620	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_41C	2496/2690	QPSK	2496.062	2496	2689.863	2690	PASS	20°C/3.45V
CA_41C	2496/2690	16QAM	2496.183	2496	2689.918	2690	PASS	20°C/3.45V
CA_41C	2496/2690	QPSK	2496.161	2496	2689.827	2690	PASS	20°C/4.5V
CA_41C	2496/2690	16QAM	2496.194	2496	2689.948	2690	PASS	20°C/4.5V
CA_41C	2496/2690	QPSK	2496.074	2496	2689.857	2690	PASS	50°C/3.91V
CA_41C	2496/2690	16QAM	2496.031	2496	2689.913	2690	PASS	50°C/3.91V
CA_41C	2496/2690	QPSK	2496.131	2496	2689.866	2690	PASS	40°C/3.91V
CA_41C	2496/2690	16QAM	2496.029	2496	2689.920	2690	PASS	40°C/3.91V
CA_41C	2496/2690	QPSK	2496.050	2496	2689.907	2690	PASS	30°C/3.91V
CA_41C	2496/2690	16QAM	2496.113	2496	2689.847	2690	PASS	30°C/3.91V
CA_41C	2496/2690	QPSK	2496.006	2496	2689.876	2690	PASS	20°C/3.91V
CA_41C	2496/2690	16QAM	2496.142	2496	2689.948	2690	PASS	20°C/3.91V
CA_41C	2496/2690	QPSK	2496.002	2496	2689.918	2690	PASS	10°C/3.91V
CA_41C	2496/2690	16QAM	2496.165	2496	2689.856	2690	PASS	10°C/3.91V
CA_41C	2496/2690	QPSK	2496.196	2496	2689.956	2690	PASS	0°C/3.91V
CA_41C	2496/2690	16QAM	2496.077	2496	2689.943	2690	PASS	0°C/3.91V
CA_41C	2496/2690	QPSK	2496.151	2496	2689.901	2690	PASS	-10°C/3.91V
CA_41C	2496/2690	16QAM	2496.052	2496	2689.958	2690	PASS	-10°C/3.91V
CA_41C	2496/2690	QPSK	2496.113	2496	2689.955	2690	PASS	-20°C/3.91V
CA_41C	2496/2690	16QAM	2496.148	2496	2689.858	2690	PASS	-20°C/3.91V
CA_41C	2496/2690	QPSK	2496.190	2496	2689.818	2690	PASS	-30°C/3.91V
CA_41C	2496/2690	16QAM	2496.126	2496	2689.903	2690	PASS	-30°C/3.91V

Band	Freq (MHz)	Modulation	Lower Edge (MHz) (Result)	Limit (MHz)	Upper Edge (MHz) (Result)	Limit (MHz)	Verdict	Environment
CA_66C	1710/1780	QPSK	1710.008	1710	1779.810	1780	PASS	20°C/3.45V
CA_66C	1710/1780	16QAM	1710.087	1710	1779.830	1780	PASS	20°C/3.45V
CA_66C	1710/1780	QPSK	1710.065	1710	1779.941	1780	PASS	20°C/4.5V
CA_66C	1710/1780	16QAM	1710.124	1710	1779.941	1780	PASS	20°C/4.5V
CA_66C	1710/1780	QPSK	1710.054	1710	1779.973	1780	PASS	50°C/3.91V
CA_66C	1710/1780	16QAM	1710.098	1710	1779.917	1780	PASS	50°C/3.91V
CA_66C	1710/1780	QPSK	1710.063	1710	1779.829	1780	PASS	40°C/3.91V
CA_66C	1710/1780	16QAM	1710.009	1710	1779.926	1780	PASS	40°C/3.91V
CA_66C	1710/1780	QPSK	1710.181	1710	1779.811	1780	PASS	30°C/3.91V
CA_66C	1710/1780	16QAM	1710.082	1710	1779.852	1780	PASS	30°C/3.91V
CA_66C	1710/1780	QPSK	1710.141	1710	1779.839	1780	PASS	20°C/3.91V
CA_66C	1710/1780	16QAM	1710.117	1710	1779.864	1780	PASS	20°C/3.91V
CA_66C	1710/1780	QPSK	1710.120	1710	1779.996	1780	PASS	10°C/3.91V
CA_66C	1710/1780	16QAM	1710.119	1710	1779.840	1780	PASS	10°C/3.91V
CA_66C	1710/1780	QPSK	1710.093	1710	1779.901	1780	PASS	0°C/3.91V
CA_66C	1710/1780	16QAM	1710.047	1710	1779.895	1780	PASS	0°C/3.91V
CA_66C	1710/1780	QPSK	1710.114	1710	1779.939	1780	PASS	-10°C/3.91V
CA_66C	1710/1780	16QAM	1710.158	1710	1779.928	1780	PASS	-10°C/3.91V
CA_66C	1710/1780	QPSK	1710.069	1710	1779.851	1780	PASS	-20°C/3.91V
CA_66C	1710/1780	16QAM	1710.193	1710	1779.962	1780	PASS	-20°C/3.91V
CA_66C	1710/1780	QPSK	1710.187	1710	1779.988	1780	PASS	-30°C/3.91V
CA_66C	1710/1780	16QAM	1710.010	1710	1779.904	1780	PASS	-30°C/3.91V