

### A.5 FREQUENCY STABILITY

#### Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-11.99	-	0.006378	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	7.98	0.004245	-	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-12.87	0.006846	-	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-14.73	0.008502	-	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-12.42	0.007169	-	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-9.41	0.005431	-	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.24	0.001482	-	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	2.53	0.003025	-	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-6.68	0.007986	-	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-22.40	0.008836	-	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-18.50	0.007298	-	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-18.05	0.007120	-	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-8.15	0.011519	-	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-4.41	0.006233	-	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.33	0.004707	-	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-3.65	0.004668	-	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-5.06	0.006471	-	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-5.81	0.007430	-	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.72	0.003831	-	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-5.04	0.007099	-	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-5.54	0.007803	-	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-14.48	0.008298	-	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-4.38	0.002510	-	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	11.26	0.006453	-	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-6.27	0.009180	-	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-4.88	0.007145	-	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-6.74	0.009868	-	±2.5	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-4.98	0.002649	-	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-2.37	-	-	±2.5	PASS

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								0.001261		
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-6.95	- 0.003697	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.32	- 0.002298	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.91	- 0.002612	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-7.25	- 0.003856	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-19.15	- 0.010186	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-8.63	- 0.004590	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-10.00	- 0.005319	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-12.89	- 0.007440	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-9.00	- 0.005195	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-8.45	- 0.004877	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-11.16	- 0.006442	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	4.08	- 0.002355	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-4.23	- 0.002442	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	11.07	- 0.006390	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-8.24	- 0.004756	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	11.87	- 0.006851	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.82	- 0.002176	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.13	- 0.003742	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-7.44	- 0.008894	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-6.22	- 0.007436	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.67	- 0.007974	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-4.69	- 0.005607	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-6.65	- 0.007950	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-5.28	- 0.006312	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-8.05	- 0.009623	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	10.99	- 0.004335	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	17.45	- 0.006884	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-8.31	- 0.003278	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	14.26	- 0.005625	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-14.08	- 0.005554	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-17.25	- 0.006805	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-14.55	- 0.005740	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-16.35	- 0.006450	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	16.12	- 0.006359	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-5.88	-	±2.5	PASS

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								0.008311		
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.48	- 0.004919	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.03	- 0.005696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.46	- 0.004890	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.37	- 0.009004	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.72	- 0.009498	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-3.66	- 0.005173	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	4.02	- 0.005682	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.62	- 0.003703	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	2.13	- 0.002724	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	6.61	- 0.008453	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-6.42	- 0.008210	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-5.34	- 0.006829	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.83	- 0.004898	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-4.33	- 0.005537	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-4.61	- 0.005895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.72	- 0.004757	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	3.28	- 0.004194	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-4.26	- 0.006000	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	3.45	- 0.004859	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-5.76	- 0.008113	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-2.43	- 0.003423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	1.43	- 0.002014	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-3.71	- 0.005225	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	1.50	- 0.002113	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-7.24	- 0.010197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-4.49	- 0.006324	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	4.53	- 0.002596	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-8.84	- 0.005066	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-6.82	- 0.003908	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-4.01	- 0.002298	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	10.49	- 0.006011	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	9.37	- 0.005370	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.46	- 0.001410	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	10.13	- 0.005805	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-11.77	- 0.006745	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-7.18	- 0.010512	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-5.02	-	±2.5	PASS

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								0.007350		
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-6.41	- 0.009385	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-8.81	- 0.012899	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-5.69	- 0.008331	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-6.45	- 0.009444	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-5.36	- 0.007848	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-9.48	- 0.013880	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-5.92	- 0.008668	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	6.29	0.003346	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	14.79	0.007867	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-10	-14.59	- 0.007761	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	12.87	0.006846	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	10.11	0.005378	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	20	-10.54	- 0.005606	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	7.12	0.003787	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	-1.23	- 0.000654	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	3.12	0.001660	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	4.96	0.002863	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-8.48	- 0.004895	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	-18.22	- 0.010517	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	9.01	0.005201	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-5.69	- 0.003284	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-14.19	- 0.008190	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	-11.83	- 0.006828	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	3.02	0.001743	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-11.10	- 0.006407	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-6.54	- 0.007818	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	2.50	0.002989	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-10	-10.87	- 0.012995	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-9.94	- 0.011883	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-3.68	- 0.004399	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-8.07	- 0.009647	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-7.81	- 0.009337	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	-7.85	- 0.009384	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-5.91	-	±2.5	PASS

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								0.007065		
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	-3.25	- 0.001282	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-18.75	- 0.007396	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-10	16.75	0.006607	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-15.13	- 0.005968	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	17.92	0.007069	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	17.15	0.006765	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-15.71	- 0.006197	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	-10.50	- 0.004142	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-14.79	- 0.005834	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	-5.26	- 0.007435	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	-6.18	- 0.008735	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-10	-6.39	- 0.009032	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	-6.05	- 0.008551	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	-6.62	- 0.009357	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	-6.87	- 0.009710	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	-6.64	- 0.009385	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	-4.91	- 0.006940	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	-4.36	- 0.006163	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	-6.68	- 0.008542	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	2.32	0.002967	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	-9.50	- 0.012148	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	-2.56	- 0.003274	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	4.62	0.005908	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	-1.83	- 0.002340	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	-4.18	- 0.005345	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	4.79	0.006125	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	-2.83	- 0.003619	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-2.59	- 0.003648	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-4.41	- 0.006211	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	2.22	0.003127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-4.71	- 0.006634	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-5.68	- 0.008000	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	2.00	0.002817	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-6.24	- 0.008789	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	1.37	0.001930	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	1.22	0.001718	±2.5	PASS

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Band66	20MHz	64QAM	132322	100RB#0	NV	-30	-10.51	0.006023	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-20	11.53	0.006607	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	-10	-9.63	0.005519	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	0	10.10	0.005788	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	10	-5.61	0.003215	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	20	12.92	0.007404	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	30	11.37	0.006516	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	40	12.87	0.007375	±2.5	PASS
Band66	20MHz	64QAM	132322	100RB#0	NV	50	-10.74	0.006155	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-30	-10.74	0.015725	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-20	-4.03	0.005900	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-10	-3.58	0.005242	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	0	-7.94	0.011625	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	10	-7.38	0.010805	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	20	-6.92	0.010132	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	30	-2.17	0.003177	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	40	-8.94	0.013089	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	50	-7.27	0.010644	±2.5	PASS

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VN	NT	-13.70	0.005458	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VL	NT	12.69	0.005056	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VH	NT	-6.98	0.002781	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	-8.47	0.003354	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	-10.57	0.004186	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	-13.68	0.005418	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VN	NT	-11.52	0.004535	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VL	NT	10.90	0.004291	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VH	NT	-12.19	0.004799	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	VN	NT	-9.10	0.003625	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	VL	NT	-10.07	0.004012	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	VH	NT	-7.24	0.002884	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VN	NT	10.90	0.004317	±2.5	PASS

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7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VL	NT	9.70	0.003841	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VH	NT	7.52	0.002978	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	VN	NT	-14.22	- 0.005598	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	VL	NT	10.20	0.004015	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	VH	NT	-10.04	- 0.003952	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-30	-12.70	- 0.005060	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-20	7.42	0.002956	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-10	-11.01	- 0.004386	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	0	6.92	0.002757	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	10	8.53	0.003398	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	20	-13.19	- 0.005255	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	30	-9.87	- 0.003932	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	40	5.05	0.002012	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	50	-11.00	- 0.004382	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	-11.54	- 0.004570	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	-11.30	- 0.004475	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	-13.25	- 0.005247	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	-10.53	- 0.004170	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	-9.20	- 0.003643	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	-8.03	- 0.003180	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	-7.11	- 0.002816	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	12.45	0.004930	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	-8.80	- 0.003485	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	-30	6.37	0.002508	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	-20	-12.96	- 0.005102	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	-10	-9.77	- 0.003846	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	0	-9.01	- 0.003547	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	10	8.61	0.003389	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	20	11.07	0.004358	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	30	-9.51	-	±2.5	PASS

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	20MHz	QPSK	21350	100RB#0				0.003744		
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	40	-12.17	- 0.004791	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	NV	50	-11.12	- 0.004378	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	-30	-12.13	- 0.004833	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	-20	-11.22	- 0.004470	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	-10	-12.00	- 0.004781	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	0	6.44	0.002566	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	10	-8.27	- 0.003295	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	20	-13.63	- 0.005430	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	30	-7.51	- 0.002992	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	40	9.04	0.003602	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	NV	50	-7.88	- 0.003139	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-30	10.26	0.004063	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-20	11.84	0.004689	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-10	-9.54	- 0.003778	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	0	-14.36	- 0.005687	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	10	-9.34	- 0.003699	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	20	5.45	0.002158	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	30	-11.64	- 0.004610	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	40	4.98	0.001972	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	50	-10.07	- 0.003988	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	-30	-5.91	- 0.002327	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	-20	11.79	0.004641	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	-10	-12.16	- 0.004787	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	0	-15.42	- 0.006070	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	10	8.01	0.003153	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	20	9.21	0.003626	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	30	7.02	0.002764	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	40	-6.68	- 0.002630	±2.5	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	NV	50	7.87	0.003098	±2.5	PASS

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Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	VN	NT	-13.60	-0.005418	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	VL	NT	7.50	0.002988	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	VH	NT	9.34	0.003721	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	VN	NT	-9.44	-0.003738	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	VL	NT	-12.56	-0.004974	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	VH	NT	-10.41	-0.004123	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	VN	NT	-11.10	-0.004370	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	VL	NT	-11.37	-0.004476	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	VH	NT	-13.83	-0.005444	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	-30	-7.84	-0.003124	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	-20	-9.71	-0.003869	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	-10	10.87	0.004331	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	0	-7.52	-0.002996	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	10	-8.67	-0.003454	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	20	-11.52	-0.004590	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	30	9.54	0.003801	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	40	-6.51	-0.002594	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	NV	50	-12.60	-0.005020	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	-30	-13.88	-0.005497	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	-20	-16.14	-0.006392	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	-10	6.02	0.002384	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	0	10.93	0.004329	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	10	-12.13	-0.004804	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	20	-11.92	-0.004721	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	30	12.35	0.004891	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	40	-13.30	-0.005267	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	NV	50	-7.25	-0.002871	±2.5	PASS

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7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	-30	-10.93	-0.004303	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	-20	-10.34	-0.004071	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	-10	-11.82	-0.004653	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	0	-14.15	-0.005570	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	10	8.96	0.003527	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	20	9.98	0.003929	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	30	-14.89	-0.005862	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	40	-11.34	-0.004464	±2.5	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	NV	50	-9.17	-0.003610	±2.5	PASS

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