

Frequency Stability

NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1852.5	BANDWIDTH	5MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	1850.210	1854.790	1850-1910	PASS
	Extreme (40℃)		1850.285	1854.715	1850-1910	PASS
	Extreme (30℃)		1850.273	1854.727	1850-1910	PASS
	Extreme (20℃)		1850.208	1854.792	1850-1910	PASS
	Extreme (10℃)		1850.216	1854.784	1850-1910	PASS
	Extreme (0℃)		1850.261	1854.739	1850-1910	PASS
	Extreme (-10℃)		1850.211	1854.789	1850-1910	PASS
	Extreme (-20℃)		1850.285	1854.715	1850-1910	PASS
	Extreme (-30℃)		1850.283	1854.717	1850-1910	PASS
	25℃	LV	1850.256	1854.744	1850-1910	PASS
		HV	1850.244	1854.756	1850-1910	PASS
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1855	BANDWIDTH	10MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	1850.526	1859.474	1850-1910	PASS
	Extreme (40℃)		1850.530	1859.470	1850-1910	PASS
	Extreme (30℃)		1850.528	1859.472	1850-1910	PASS
	Extreme (20℃)		1850.550	1859.450	1850-1910	PASS
	Extreme (10℃)		1850.523	1859.477	1850-1910	PASS
	Extreme (0℃)		1850.510	1859.490	1850-1910	PASS
	Extreme (-10℃)		1850.537	1859.463	1850-1910	PASS
	Extreme (-20℃)		1850.536	1859.464	1850-1910	PASS
	Extreme (-30℃)		1850.532	1859.468	1850-1910	PASS
	25℃	LV	1850.512	1859.488	1850-1910	PASS
		HV	1850.533	1859.467	1850-1910	PASS
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1857.5	BANDWIDTH	15MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	1850.789	1864.211	1850-1910	PASS
	Extreme (40℃)		1850.761	1864.239	1850-1910	PASS

	Extreme (30℃)		1850.757	1864.243	1850-1910	PASS
	Extreme (20℃)		1850.752	1864.248	1850-1910	PASS
	Extreme (10℃)		1850.758	1864.242	1850-1910	PASS
	Extreme (0℃)		1850.760	1864.240	1850-1910	PASS
	Extreme (-10℃)		1850.786	1864.214	1850-1910	PASS
	Extreme (-20℃)		1850.758	1864.242	1850-1910	PASS
	Extreme (-30℃)		1850.788	1864.212	1850-1910	PASS
	25℃	LV	1850.786	1864.214	1850-1910	PASS
HV		1850.762	1864.238	1850-1910	PASS	
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1860	BANDWIDTH	20MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	1851.001	1868.999	1850-1910	PASS
	Extreme (40℃)		1850.837	1869.163	1850-1910	PASS
	Extreme (30℃)		1850.875	1869.125	1850-1910	PASS
	Extreme (20℃)		1850.834	1869.166	1850-1910	PASS
	Extreme (10℃)		1850.824	1869.176	1850-1910	PASS
	Extreme (0℃)		1850.832	1869.168	1850-1910	PASS
	Extreme (-10℃)		1850.878	1869.122	1850-1910	PASS
	Extreme (-20℃)		1850.801	1869.199	1850-1910	PASS
	Extreme (-30℃)	1850.860	1869.140	1850-1910	PASS	
	25℃	LV	1850.802	1869.198	1850-1910	PASS
		HV	1850.864	1869.136	1850-1910	PASS
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1907.5	BANDWIDTH	5MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	1905.214	1909.786	1850-1910	PASS
	Extreme (40℃)		1905.263	1909.737	1850-1910	PASS
	Extreme (30℃)		1905.211	1909.789	1850-1910	PASS
	Extreme (20℃)		1905.268	1909.732	1850-1910	PASS
	Extreme (10℃)		1905.206	1909.794	1850-1910	PASS
	Extreme (0℃)		1905.216	1909.784	1850-1910	PASS
	Extreme (-10℃)		1905.283	1909.717	1850-1910	PASS
	Extreme (-20℃)		1905.291	1909.709	1850-1910	PASS
	Extreme (-30℃)	1905.225	1909.775	1850-1910	PASS	
	25℃	LV	1905.218	1909.782	1850-1910	PASS
		HV	1905.208	1909.792	1850-1910	PASS

NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1905	BANDWIDTH	10MHz	DFT-QPSK	DFT-QPSK	1850-1910	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	1900.528	1909.472	1850-1910	PASS
	Extreme (40°C)		1900.535	1909.465	1850-1910	PASS
	Extreme (30°C)		1900.527	1909.473	1850-1910	PASS
	Extreme (20°C)		1900.502	1909.498	1850-1910	PASS
	Extreme (10°C)		1900.513	1909.487	1850-1910	PASS
	Extreme (0°C)		1900.520	1909.480	1850-1910	PASS
	Extreme (-10°C)		1900.504	1909.496	1850-1910	PASS
	Extreme (-20°C)		1900.502	1909.498	1850-1910	PASS
	Extreme (-30°C)		1900.527	1909.473	1850-1910	PASS
	25°C	LV	1900.501	1909.499	1850-1910	PASS
		HV	1900.522	1909.478	1850-1910	PASS
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1902.5	BANDWIDTH	15MHz	DFT-QPSK	DFT-QPSK	1850-1910	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	1895.754	1909.246	1850-1910	PASS
	Extreme (40°C)		1895.776	1909.224	1850-1910	PASS
	Extreme (30°C)		1895.796	1909.204	1850-1910	PASS
	Extreme (20°C)		1895.764	1909.236	1850-1910	PASS
	Extreme (10°C)		1895.796	1909.204	1850-1910	PASS
	Extreme (0°C)		1895.753	1909.247	1850-1910	PASS
	Extreme (-10°C)		1895.783	1909.217	1850-1910	PASS
	Extreme (-20°C)		1895.796	1909.204	1850-1910	PASS
	Extreme (-30°C)		1895.796	1909.204	1850-1910	PASS
	25°C	LV	1895.752	1909.248	1850-1910	PASS
		HV	1895.764	1909.236	1850-1910	PASS
NR N2 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
1900	BANDWIDTH	20MHz	DFT-QPSK	DFT-QPSK	1850-1910	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	1891.042	1908.958	1850-1910	PASS
	Extreme (40°C)		1890.865	1909.135	1850-1910	PASS
	Extreme (30°C)		1890.822	1909.178	1850-1910	PASS
	Extreme (20°C)		1890.806	1909.194	1850-1910	PASS
	Extreme (10°C)		1890.898	1909.102	1850-1910	PASS

	Extreme (0°C)		1890.828	1909.172	1850-1910	PASS
	Extreme (-10°C)		1890.808	1909.192	1850-1910	PASS
	Extreme (-20°C)		1890.868	1909.132	1850-1910	PASS
	Extreme (-30°C)		1890.842	1909.158	1850-1910	PASS
	25°C	LV	1890.883	1909.117	1850-1910	PASS
		HV	1890.817	1909.183	1850-1910	PASS

N5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50°C)	NV	4.30	0.00514	PASS
	Extreme (40°C)		17.69	0.02115	PASS
	Extreme (30°C)		16.67	0.01993	PASS
	Extreme (20°C)		16.81	0.02010	PASS
	Extreme (10°C)		16.45	0.01967	PASS
	Extreme (0°C)		2.25	0.00269	PASS
	Extreme (-10°C)		13.29	0.01589	PASS
	Extreme (-20°C)		4.98	0.00595	PASS
	Extreme (-30°C)		13.00	0.01555	PASS
	25°C	LV	16.37	0.01957	PASS
		HV	5.13	0.00613	PASS
N5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50°C)	NV	14.32	0.01712	PASS
	Extreme (40°C)		2.18	0.00260	PASS
	Extreme (30°C)		16.18	0.01934	PASS
	Extreme (20°C)		13.24	0.01583	PASS
	Extreme (10°C)		3.42	0.00409	PASS
	Extreme (0°C)		5.07	0.00606	PASS
	Extreme (-10°C)		15.38	0.01839	PASS
	Extreme (-20°C)		17.09	0.02043	PASS
	Extreme (-30°C)		6.10	0.00729	PASS
	25°C	LV	10.51	0.01256	PASS
		HV	10.58	0.01264	PASS
N5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz			
	Temperature	Voltage	QPSK	QPSK	

	Extreme (50℃)	NV	10.26	0.01226	PASS
	Extreme (40℃)		2.84	0.00340	PASS
	Extreme (30℃)		8.97	0.01072	PASS
	Extreme (20℃)		17.39	0.02079	PASS
	Extreme (10℃)		17.56	0.02099	PASS
	Extreme (0℃)		12.30	0.01471	PASS
	Extreme (-10℃)		6.47	0.00773	PASS
	Extreme (-20℃)		3.39	0.00405	PASS
	Extreme (-30℃)		11.72	0.01401	PASS
	25℃	LV	13.55	0.01620	PASS
		HV	2.49	0.00298	PASS
N5	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)	NV	9.37	0.01120	PASS
	Extreme (40℃)		16.77	0.02005	PASS
	Extreme (30℃)		9.24	0.01104	PASS
	Extreme (20℃)		8.87	0.01060	PASS
	Extreme (10℃)		8.45	0.01010	PASS
	Extreme (0℃)		6.62	0.00792	PASS
	Extreme (-10℃)		8.35	0.00998	PASS
	Extreme (-20℃)		2.10	0.00251	PASS
	Extreme (-30℃)		12.88	0.01539	PASS
	25℃	LV	7.03	0.00841	PASS
		HV	3.42	0.00409	PASS

N26(814-824)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50℃)	NV	17.89	0.02185	PASS
	Extreme (40℃)		10.29	0.01257	PASS
	Extreme (30℃)		13.39	0.01635	PASS
	Extreme (20℃)		3.18	0.00388	PASS
	Extreme (10℃)		12.20	0.01490	PASS
	Extreme (0℃)		4.00	0.00488	PASS
	Extreme (-10℃)		2.32	0.00283	PASS
	Extreme (-20℃)		15.18	0.01854	PASS
	Extreme (-30℃)		17.35	0.02118	PASS
	25℃	LV	13.68	0.01670	PASS
		HV	15.36	0.01876	PASS

N26(814-824)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50°C)	NV	17.47	0.02134	
	Extreme (40°C)		9.09	0.01109	PASS
	Extreme (30°C)		14.51	0.01772	PASS
	Extreme (20°C)		12.24	0.01494	PASS
	Extreme (10°C)		4.95	0.00605	PASS
	Extreme (0°C)		12.96	0.01583	PASS
	Extreme (-10°C)		13.49	0.01647	PASS
	Extreme (-20°C)		5.83	0.00712	PASS
	Extreme (-30°C)		6.35	0.00775	PASS
	25°C	LV	7.68	0.00937	PASS
		HV	3.96	0.00483	PASS
N26(824-849)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50°C)	NV	12.83	0.01533	PASS
	Extreme (40°C)		5.80	0.00693	PASS
	Extreme (30°C)		14.33	0.01713	PASS
	Extreme (20°C)		13.55	0.01620	PASS
	Extreme (10°C)		4.90	0.00586	PASS
	Extreme (0°C)		5.49	0.00656	PASS
	Extreme (-10°C)		3.42	0.00408	PASS
	Extreme (-20°C)		15.70	0.01877	PASS
	Extreme (-30°C)		16.66	0.01992	PASS
	25°C	LV	9.60	0.01148	PASS
		HV	9.27	0.01108	PASS
N26(824-849)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz			
	Temperature	Voltage	QPSK	QPSK	
	Extreme (50°C)	NV	7.67	0.00917	PASS
	Extreme (40°C)		8.11	0.00969	PASS
	Extreme (30°C)		1.80	0.00216	PASS
	Extreme (20°C)		7.65	0.00914	PASS
	Extreme (10°C)		6.60	0.00788	PASS
	Extreme (0°C)		17.88	0.02137	PASS
	Extreme (-10°C)		10.10	0.01207	PASS

	Extreme (-20℃)		9.23	0.01103	PASS
	Extreme (-30℃)		1.24	0.00148	PASS
	25℃	LV	1.90	0.00227	PASS
		HV	13.02	0.01556	PASS
N26(824-849)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz			
	Temperature	Voltage			
	Extreme (50℃)	NV	2.53	0.00303	PASS
	Extreme (40℃)		15.60	0.01864	PASS
	Extreme (30℃)		3.76	0.00450	PASS
	Extreme (20℃)		3.77	0.00450	PASS
	Extreme (10℃)		10.26	0.01226	PASS
	Extreme (0℃)		17.47	0.02089	PASS
	Extreme (-10℃)		16.26	0.01944	PASS
	Extreme (-20℃)		15.92	0.01903	PASS
	Extreme (-30℃)		5.81	0.00695	PASS
	25℃		LV	15.32	0.01831
		HV	5.27	0.00630	PASS
N26(824-849)	Condition		Freq.Error (Hz)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz			
	Temperature	Voltage			
	Extreme (50℃)	NV	6.57	0.00785	PASS
	Extreme (40℃)		9.01	0.01078	PASS
	Extreme (30℃)		6.48	0.00775	PASS
	Extreme (20℃)		3.80	0.00454	PASS
	Extreme (10℃)		17.83	0.02131	PASS
	Extreme (0℃)		16.48	0.01970	PASS
	Extreme (-10℃)		13.86	0.01657	PASS
	Extreme (-20℃)		16.88	0.02018	PASS
	Extreme (-30℃)		6.06	0.00724	PASS
	25℃		LV	2.47	0.00296
		HV	10.19	0.01219	PASS

NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2501.1	BANDWIDTH	10MHz	2496.777	2505.423		
	Temperature	Voltage		DFT-QPSK		
	Extreme (50°C)	NV	2496.800	2505.400	2496-2690	PASS
	Extreme (40°C)				2496-2690	PASS

	Extreme (30℃)		2496.800	2505.400	2496-2690	PASS
	Extreme (20℃)		2496.774	2505.426	2496-2690	PASS
	Extreme (10℃)		2496.776	2505.424	2496-2690	PASS
	Extreme (0℃)		2496.769	2505.431	2496-2690	PASS
	Extreme (-10℃)		2496.786	2505.414	2496-2690	PASS
	Extreme (-20℃)		2496.782	2505.418	2496-2690	PASS
	Extreme (-30℃)		2496.790	2505.410	2496-2690	PASS
	25℃	LV	2496.789	2505.411	2496-2690	PASS
HV		2496.780	2505.420	2496-2690	PASS	
NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2503.5	BANDWIDTH	15MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	2497.008	2509.992	2496-2690	PASS
	Extreme (40℃)		2489.523	2517.477	2496-2690	PASS
	Extreme (30℃)		2489.503	2517.497	2496-2690	PASS
	Extreme (20℃)		2489.504	2517.496	2496-2690	PASS
	Extreme (10℃)		2489.545	2517.455	2496-2690	PASS
	Extreme (0℃)		2489.518	2517.482	2496-2690	PASS
	Extreme (-10℃)		2489.519	2517.481	2496-2690	PASS
	Extreme (-20℃)		2489.542	2517.458	2496-2690	PASS
	Extreme (-30℃)		2489.545	2517.455	2496-2690	PASS
	25℃	LV	2489.521	2517.479	2496-2690	PASS
		HV	2489.521	2517.479	2496-2690	PASS
NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2506.02	BANDWIDTH	20MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50℃)	NV	2497.039	2515.001	2496-2690	PASS
	Extreme (40℃)		2497.057	2514.983	2496-2690	PASS
	Extreme (30℃)		2497.043	2514.997	2496-2690	PASS
	Extreme (20℃)		2497.028	2515.012	2496-2690	PASS
	Extreme (10℃)		2497.056	2514.984	2496-2690	PASS
	Extreme (0℃)		2497.061	2514.979	2496-2690	PASS
	Extreme (-10℃)		2497.034	2515.006	2496-2690	PASS
	Extreme (-20℃)		2497.062	2514.978	2496-2690	PASS
	Extreme (-30℃)		2497.023	2515.017	2496-2690	PASS
	25℃	LV	2497.038	2515.002	2496-2690	PASS
		HV	2497.052	2514.988	2496-2690	PASS

NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2685	BANDWIDTH	10MHz	DFT-QPSK	DFT-QPSK	2496-2690	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	2680.679	2689.321	2496-2690	PASS
	Extreme (40°C)		2680.651	2689.349	2496-2690	PASS
	Extreme (30°C)		2680.687	2689.313	2496-2690	PASS
	Extreme (20°C)		2680.676	2689.324	2496-2690	PASS
	Extreme (10°C)		2680.656	2689.344	2496-2690	PASS
	Extreme (0°C)		2680.665	2689.335	2496-2690	PASS
	Extreme (-10°C)		2680.668	2689.332	2496-2690	PASS
	Extreme (-20°C)		2680.658	2689.342	2496-2690	PASS
	Extreme (-30°C)		2680.683	2689.317	2496-2690	PASS
	25°C	LV	2680.693	2689.307	2496-2690	PASS
		HV	2680.657	2689.343	2496-2690	PASS
NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2682.48	BANDWIDTH	15MHz	DFT-QPSK	DFT-QPSK	2496-2690	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	2676.000	2688.960	2496-2690	PASS
	Extreme (40°C)		2668.495	2696.465	2496-2690	PASS
	Extreme (30°C)		2668.516	2696.444	2496-2690	PASS
	Extreme (20°C)		2668.492	2696.468	2496-2690	PASS
	Extreme (10°C)		2668.526	2696.434	2496-2690	PASS
	Extreme (0°C)		2668.485	2696.475	2496-2690	PASS
	Extreme (-10°C)		2668.490	2696.470	2496-2690	PASS
	Extreme (-20°C)		2668.489	2696.471	2496-2690	PASS
	Extreme (-30°C)		2668.491	2696.469	2496-2690	PASS
	25°C	LV	2668.504	2696.456	2496-2690	PASS
		HV	2668.486	2696.474	2496-2690	PASS
NR N41 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
2592.99	BANDWIDTH	20MHz	DFT-QPSK	DFT-QPSK	2496-2690	PASS
	Temperature	Voltage				
	Extreme (50°C)	NV	2583.992	2601.988	2496-2690	PASS
	Extreme (40°C)		2584.003	2601.977	2496-2690	PASS
	Extreme (30°C)		2584.013	2601.967	2496-2690	PASS
	Extreme (20°C)		2584.002	2601.978	2496-2690	PASS
	Extreme (10°C)		2584.027	2601.953	2496-2690	PASS

	Extreme (0°C)		2584.008	2601.972	2496-2690	PASS
	Extreme (-10°C)		2584.005	2601.975	2496-2690	PASS
	Extreme (-20°C)		2584.011	2601.969	2496-2690	PASS
	Extreme (-30°C)		2583.992	2601.988	2496-2690	PASS
	25°C	LV	2584.015	2601.965	2496-2690	PASS
		HV	2584.031	2601.949	2496-2690	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3455.01	BANDWIDTH	10MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3450.686	3459.334	3450-3550	PASS
	Extreme (40°C)		3450.671	3459.349	3450-3550	PASS
	Extreme (30°C)		3450.696	3459.324	3450-3550	PASS
	Extreme (20°C)		3450.691	3459.329	3450-3550	PASS
	Extreme (10°C)		3450.673	3459.347	3450-3550	PASS
	Extreme (0°C)		3450.667	3459.353	3450-3550	PASS
	Extreme (-10°C)		3450.671	3459.349	3450-3550	PASS
	Extreme (-20°C)		3450.704	3459.316	3450-3550	PASS
	Extreme (-30°C)		3450.682	3459.338	3450-3550	PASS
	25°C	LV	3450.690	3459.330	3450-3550	PASS
		HV	3450.689	3459.331	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3457.5	BANDWIDTH	15MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3451.010	3463.990	3450-3550	PASS
	Extreme (40°C)		3450.675	3464.325	3450-3550	PASS
	Extreme (30°C)		3450.600	3464.400	3450-3550	PASS
	Extreme (20°C)		3450.647	3464.353	3450-3550	PASS
	Extreme (10°C)		3450.648	3464.352	3450-3550	PASS
	Extreme (0°C)		3450.696	3464.304	3450-3550	PASS
	Extreme (-10°C)		3450.675	3464.325	3450-3550	PASS
	Extreme (-20°C)		3450.629	3464.371	3450-3550	PASS
	Extreme (-30°C)		3450.685	3464.315	3450-3550	PASS
	25°C	LV	3450.664	3464.336	3450-3550	PASS
		HV	3450.620	3464.380	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict

3460.02	BANDWIDTH	20MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3451.056	3468.984	3450-3550	PASS
	Extreme (40°C)		3451.039	3469.001	3450-3550	PASS
	Extreme (30°C)		3451.070	3468.970	3450-3550	PASS
	Extreme (20°C)		3451.030	3469.010	3450-3550	PASS
	Extreme (10°C)		3451.055	3468.985	3450-3550	PASS
	Extreme (0°C)		3451.031	3469.009	3450-3550	PASS
	Extreme (-10°C)		3451.069	3468.971	3450-3550	PASS
	Extreme (-20°C)		3451.031	3469.009	3450-3550	PASS
	Extreme (-30°C)		3451.041	3468.999	3450-3550	PASS
	25°C	LV	3451.044	3468.996	3450-3550	PASS
		HV	3451.031	3469.009	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3544.98	BANDWIDTH	10MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3540.661	3549.299	3450-3550	PASS
	Extreme (40°C)		3540.666	3549.294	3450-3550	PASS
	Extreme (30°C)		3540.633	3549.327	3450-3550	PASS
	Extreme (20°C)		3540.650	3549.310	3450-3550	PASS
	Extreme (10°C)		3540.641	3549.319	3450-3550	PASS
	Extreme (0°C)		3540.668	3549.292	3450-3550	PASS
	Extreme (-10°C)		3540.676	3549.284	3450-3550	PASS
	Extreme (-20°C)		3540.662	3549.298	3450-3550	PASS
	Extreme (-30°C)		3540.672	3549.288	3450-3550	PASS
	25°C	LV	3540.652	3549.308	3450-3550	PASS
		HV	3540.645	3549.315	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3542.49	BANDWIDTH	15MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3536.036	3548.944	3450-3550	PASS
	Extreme (40°C)		3536.018	3548.962	3450-3550	PASS
	Extreme (30°C)		3535.991	3548.989	3450-3550	PASS
	Extreme (20°C)		3536.005	3548.975	3450-3550	PASS
	Extreme (10°C)		3536.000	3548.980	3450-3550	PASS
	Extreme (0°C)		3535.999	3548.981	3450-3550	PASS
	Extreme (-10°C)		3535.997	3548.983	3450-3550	PASS

	Extreme (-20°C)		3536.019	3548.961	3450-3550	PASS
	Extreme (-30°C)		3536.004	3548.976	3450-3550	PASS
	25°C	LV	3535.998	3548.982	3450-3550	PASS
		HV	3536.028	3548.952	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3540	BANDWIDTH	20MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3531.036	3548.964	3450-3550	PASS
	Extreme (40°C)		3531.041	3548.959	3450-3550	PASS
	Extreme (30°C)		3531.007	3548.993	3450-3550	PASS
	Extreme (20°C)		3531.024	3548.976	3450-3550	PASS
	Extreme (10°C)		3531.017	3548.983	3450-3550	PASS
	Extreme (0°C)		3531.029	3548.971	3450-3550	PASS
	Extreme (-10°C)		3531.035	3548.965	3450-3550	PASS
	Extreme (-20°C)		3531.049	3548.951	3450-3550	PASS
	Extreme (-30°C)		3531.019	3548.981	3450-3550	PASS
	25°C	LV	3531.047	3548.953	3450-3550	PASS
		HV	3531.010	3548.990	3450-3550	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3705	BANDWIDTH	10MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3700.660	3709.340	3700-3800	PASS
	Extreme (40°C)		3700.652	3709.348	3700-3800	PASS
	Extreme (30°C)		3700.692	3709.308	3700-3800	PASS
	Extreme (20°C)		3700.667	3709.333	3700-3800	PASS
	Extreme (10°C)		3700.686	3709.314	3700-3800	PASS
	Extreme (0°C)		3700.656	3709.344	3700-3800	PASS
	Extreme (-10°C)		3700.689	3709.311	3700-3800	PASS
	Extreme (-20°C)		3700.651	3709.349	3700-3800	PASS
	Extreme (-30°C)		3700.652	3709.348	3700-3800	PASS
	25°C	LV	3700.669	3709.331	3700-3800	PASS
		HV	3700.691	3709.309	3700-3800	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3707.52	BANDWIDTH	15MHz				
	Temperature	Voltage				

	Extreme (50°C)	NV	3701.024	3714.016	3700-3800	PASS
	Extreme (40°C)		3700.681	3714.359	3700-3800	PASS
	Extreme (30°C)		3700.630	3714.410	3700-3800	PASS
	Extreme (20°C)		3700.673	3714.367	3700-3800	PASS
	Extreme (10°C)		3700.670	3714.370	3700-3800	PASS
	Extreme (0°C)		3700.634	3714.406	3700-3800	PASS
	Extreme (-10°C)		3700.690	3714.350	3700-3800	PASS
	Extreme (-20°C)		3700.644	3714.396	3700-3800	PASS
	Extreme (-30°C)		3700.687	3714.353	3700-3800	PASS
	25°C	LV	3700.664	3714.376	3700-3800	PASS
		HV	3700.665	3714.375	3700-3800	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3710.01	BANDWIDTH	20MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3701.058	3718.962	3700-3800	PASS
	Extreme (40°C)		3701.058	3718.962	3700-3800	PASS
	Extreme (30°C)		3701.054	3718.966	3700-3800	PASS
	Extreme (20°C)		3701.038	3718.982	3700-3800	PASS
	Extreme (10°C)		3701.028	3718.992	3700-3800	PASS
	Extreme (0°C)		3701.050	3718.970	3700-3800	PASS
	Extreme (-10°C)		3701.034	3718.986	3700-3800	PASS
	Extreme (-20°C)		3701.052	3718.968	3700-3800	PASS
	Extreme (-30°C)		3701.040	3718.980	3700-3800	PASS
	25°C	LV	3701.021	3718.999	3700-3800	PASS
		HV	3701.037	3718.983	3700-3800	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3795	BANDWIDTH	10MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3790.689	3799.311	3700-3800	PASS
	Extreme (40°C)		3790.662	3799.338	3700-3800	PASS
	Extreme (30°C)		3790.658	3799.342	3700-3800	PASS
	Extreme (20°C)		3790.653	3799.347	3700-3800	PASS
	Extreme (10°C)		3790.682	3799.318	3700-3800	PASS
	Extreme (0°C)		3790.650	3799.350	3700-3800	PASS
	Extreme (-10°C)		3790.676	3799.324	3700-3800	PASS
	Extreme (-20°C)		3790.697	3799.303	3700-3800	PASS
	Extreme (-30°C)		3790.682	3799.318	3700-3800	PASS
	25°C	LV	3790.664	3799.336	3700-3800	PASS

		HV	3790.672	3799.328	3700-3800	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3792.48	BANDWIDTH	15MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3786.006	3798.954	3700-3800	PASS
	Extreme (40°C)		3785.997	3798.963	3700-3800	PASS
	Extreme (30°C)		3786.024	3798.936	3700-3800	PASS
	Extreme (20°C)		3786.008	3798.952	3700-3800	PASS
	Extreme (10°C)		3785.983	3798.977	3700-3800	PASS
	Extreme (0°C)		3785.987	3798.973	3700-3800	PASS
	Extreme (-10°C)		3786.005	3798.955	3700-3800	PASS
	Extreme (-20°C)		3785.983	3798.977	3700-3800	PASS
	Extreme (-30°C)		3786.023	3798.937	3700-3800	PASS
	25°C	LV	3786.030	3798.930	3700-3800	PASS
		HV	3785.990	3798.970	3700-3800	PASS
NR N78 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3789.99	BANDWIDTH	20MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3781.001	3798.979	3700-3800	PASS
	Extreme (40°C)		3781.033	3798.947	3700-3800	PASS
	Extreme (30°C)		3781.011	3798.969	3700-3800	PASS
	Extreme (20°C)		3780.994	3798.986	3700-3800	PASS
	Extreme (10°C)		3781.009	3798.971	3700-3800	PASS
	Extreme (0°C)		3780.995	3798.985	3700-3800	PASS
	Extreme (-10°C)		3781.014	3798.966	3700-3800	PASS
	Extreme (-20°C)		3781.024	3798.956	3700-3800	PASS
	Extreme (-30°C)		3781.004	3798.976	3700-3800	PASS
	25°C	LV	3781.013	3798.967	3700-3800	PASS
		HV	3781.028	3798.952	3700-3800	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3455.01	BANDWIDTH	10MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3450.679	3459.341	3450-3500	PASS
	Extreme (40°C)		3450.667	3459.353	3450-3500	PASS
	Extreme (30°C)		3450.693	3459.327	3450-3500	PASS

	Extreme (20°C)		3450.701	3459.319	3450-3500	PASS
	Extreme (10°C)		3450.676	3459.344	3450-3500	PASS
	Extreme (0°C)		3450.703	3459.317	3450-3500	PASS
	Extreme (-10°C)		3450.695	3459.325	3450-3500	PASS
	Extreme (-20°C)		3450.706	3459.314	3450-3500	PASS
	Extreme (-30°C)		3450.669	3459.351	3450-3500	PASS
	25°C	LV	3450.710	3459.310	3450-3500	PASS
		HV	3450.664	3459.356	3450-3500	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3457.5	BANDWIDTH	15MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3451.035	3463.965	3450-3500	PASS
	Extreme (40°C)		3450.628	3464.372	3450-3500	PASS
	Extreme (30°C)		3450.679	3464.321	3450-3500	PASS
	Extreme (20°C)		3450.680	3464.320	3450-3500	PASS
	Extreme (10°C)		3450.676	3464.324	3450-3500	PASS
	Extreme (0°C)		3450.640	3464.360	3450-3500	PASS
	Extreme (-10°C)		3450.601	3464.399	3450-3500	PASS
	Extreme (-20°C)		3450.627	3464.373	3450-3500	PASS
	Extreme (-30°C)		3450.619	3464.381	3450-3500	PASS
	25°C	LV	3450.644	3464.356	3450-3500	PASS
		HV	3450.681	3464.319	3450-3500	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3460.02	BANDWIDTH	20MHz	DFT-QPSK			
	Temperature	Voltage				
	Extreme (50°C)	NV	3451.060	3468.980	3450-3500	PASS
	Extreme (40°C)		3451.031	3469.009	3450-3500	PASS
	Extreme (30°C)		3451.025	3469.015	3450-3500	PASS
	Extreme (20°C)		3451.045	3468.995	3450-3500	PASS
	Extreme (10°C)		3451.067	3468.973	3450-3500	PASS
	Extreme (0°C)		3451.043	3468.997	3450-3500	PASS
	Extreme (-10°C)		3451.049	3468.991	3450-3500	PASS
	Extreme (-20°C)		3451.040	3469.000	3450-3500	PASS
	Extreme (-30°C)		3451.021	3469.019	3450-3500	PASS
	25°C	LV	3451.051	3468.989	3450-3500	PASS
		HV	3451.050	3468.990	3450-3500	PASS
NR N77	Condition		F Low	F High	Limit (MHz)	Verdict

Fc(MHz)			(MHz)	(MHz)		
3495	BANDWIDTH	10MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3490.661	3499.339	3450-3500	PASS
	Extreme (40°C)		3490.655	3499.345	3450-3500	PASS
	Extreme (30°C)		3490.668	3499.332	3450-3500	PASS
	Extreme (20°C)		3490.680	3499.320	3450-3500	PASS
	Extreme (10°C)		3490.675	3499.325	3450-3500	PASS
	Extreme (0°C)		3490.656	3499.344	3450-3500	PASS
	Extreme (-10°C)		3490.687	3499.313	3450-3500	PASS
	Extreme (-20°C)		3490.657	3499.343	3450-3500	PASS
	Extreme (-30°C)		3490.665	3499.335	3450-3500	PASS
	25°C	LV	3490.679	3499.321	3450-3500	PASS
		HV	3490.655	3499.345	3450-3500	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3492.48	BANDWIDTH	15MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3486.015	3498.945	3450-3500	PASS
	Extreme (40°C)		3486.005	3498.955	3450-3500	PASS
	Extreme (30°C)		3485.992	3498.968	3450-3500	PASS
	Extreme (20°C)		3485.993	3498.967	3450-3500	PASS
	Extreme (10°C)		3486.030	3498.930	3450-3500	PASS
	Extreme (0°C)		3486.025	3498.935	3450-3500	PASS
	Extreme (-10°C)		3486.002	3498.958	3450-3500	PASS
	Extreme (-20°C)		3485.987	3498.973	3450-3500	PASS
	Extreme (-30°C)		3486.004	3498.956	3450-3500	PASS
	25°C	LV	3486.013	3498.947	3450-3500	PASS
		HV	3485.995	3498.965	3450-3500	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3489.99	BANDWIDTH	20MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3481.017	3498.963	3450-3500	PASS
	Extreme (40°C)		3481.008	3498.972	3450-3500	PASS
	Extreme (30°C)		3481.033	3498.947	3450-3500	PASS
	Extreme (20°C)		3481.020	3498.960	3450-3500	PASS
	Extreme (10°C)		3481.013	3498.967	3450-3500	PASS
	Extreme (0°C)		3481.033	3498.947	3450-3500	PASS

	Extreme (-10°C)		3481.007	3498.973	3450-3500	PASS
	Extreme (-20°C)		3481.018	3498.962	3450-3500	PASS
	Extreme (-30°C)		3481.030	3498.950	3450-3500	PASS
	25°C	LV	3481.016	3498.964	3450-3500	PASS
		HV	3481.001	3498.979	3450-3500	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3705	BANDWIDTH	10MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3700.651	3709.349	3700-3980	PASS
	Extreme (40°C)		3700.691	3709.309	3700-3980	PASS
	Extreme (30°C)		3700.679	3709.321	3700-3980	PASS
	Extreme (20°C)		3700.690	3709.310	3700-3980	PASS
	Extreme (10°C)		3700.698	3709.302	3700-3980	PASS
	Extreme (0°C)		3700.659	3709.341	3700-3980	PASS
	Extreme (-10°C)		3700.654	3709.346	3700-3980	PASS
	Extreme (-20°C)		3700.685	3709.315	3700-3980	PASS
	Extreme (-30°C)		3700.689	3709.311	3700-3980	PASS
	25°C	LV	3700.682	3709.318	3700-3980	PASS
		HV	3700.692	3709.308	3700-3980	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3707.52	BANDWIDTH	15MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3701.024	3714.016	3700-3980	PASS
	Extreme (40°C)		3700.626	3714.414	3700-3980	PASS
	Extreme (30°C)		3700.677	3714.363	3700-3980	PASS
	Extreme (20°C)		3700.652	3714.388	3700-3980	PASS
	Extreme (10°C)		3700.710	3714.330	3700-3980	PASS
	Extreme (0°C)		3700.654	3714.386	3700-3980	PASS
	Extreme (-10°C)		3700.667	3714.373	3700-3980	PASS
	Extreme (-20°C)		3700.622	3714.418	3700-3980	PASS
	Extreme (-30°C)		3700.662	3714.378	3700-3980	PASS
	25°C	LV	3700.665	3714.375	3700-3980	PASS
		HV	3700.664	3714.376	3700-3980	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3710.01	BANDWIDTH	20MHz				

	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3701.022	3718.998	3700-3980	PASS
	Extreme (40°C)		3701.046	3718.974	3700-3980	PASS
	Extreme (30°C)		3701.033	3718.987	3700-3980	PASS
	Extreme (20°C)		3701.028	3718.992	3700-3980	PASS
	Extreme (10°C)		3701.046	3718.974	3700-3980	PASS
	Extreme (0°C)		3701.011	3719.009	3700-3980	PASS
	Extreme (-10°C)		3701.048	3718.972	3700-3980	PASS
	Extreme (-20°C)		3701.028	3718.992	3700-3980	PASS
	Extreme (-30°C)		3701.019	3719.001	3700-3980	PASS
	25°C	LV	3701.032	3718.988	3700-3980	PASS
		HV	3701.049	3718.971	3700-3980	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3975	BANDWIDTH	10MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3970.657	3979.343	3700-3980	PASS
	Extreme (40°C)		3970.693	3979.307	3700-3980	PASS
	Extreme (30°C)		3970.662	3979.338	3700-3980	PASS
	Extreme (20°C)		3970.665	3979.335	3700-3980	PASS
	Extreme (10°C)		3970.692	3979.308	3700-3980	PASS
	Extreme (0°C)		3970.653	3979.347	3700-3980	PASS
	Extreme (-10°C)		3970.666	3979.334	3700-3980	PASS
	Extreme (-20°C)		3970.662	3979.338	3700-3980	PASS
	Extreme (-30°C)		3970.653	3979.347	3700-3980	PASS
	25°C	LV	3970.661	3979.339	3700-3980	PASS
		HV	3970.650	3979.350	3700-3980	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3972.48	BANDWIDTH	15MHz				
	Temperature	Voltage				
	Extreme (50°C)	NV	3965.997	3978.963	3700-3980	PASS
	Extreme (40°C)		3965.996	3978.964	3700-3980	PASS
	Extreme (30°C)		3966.008	3978.952	3700-3980	PASS
	Extreme (20°C)		3965.999	3978.961	3700-3980	PASS
	Extreme (10°C)		3966.026	3978.934	3700-3980	PASS
	Extreme (0°C)		3965.992	3978.968	3700-3980	PASS
	Extreme (-10°C)		3965.991	3978.969	3700-3980	PASS
	Extreme (-20°C)		3965.984	3978.976	3700-3980	PASS
	Extreme (-30°C)		3966.029	3978.931	3700-3980	PASS

	25°C	LV	3966.019	3978.941	3700-3980	PASS
		HV	3966.000	3978.960	3700-3980	PASS
NR N77 Fc(MHz)	Condition		F Low (MHz)	F High (MHz)	Limit (MHz)	Verdict
3969.99	BANDWIDTH	20MHz				
	Temperature	Voltage	DFT-QPSK			
	Extreme (50°C)	NV	3961.036	3978.944	3700-3980	PASS
	Extreme (40°C)		3961.038	3978.942	3700-3980	PASS
	Extreme (30°C)		3961.019	3978.961	3700-3980	PASS
	Extreme (20°C)		3961.015	3978.965	3700-3980	PASS
	Extreme (10°C)		3960.993	3978.987	3700-3980	PASS
	Extreme (0°C)		3960.990	3978.990	3700-3980	PASS
	Extreme (-10°C)		3961.028	3978.952	3700-3980	PASS
	Extreme (-20°C)		3961.000	3978.980	3700-3980	PASS
	Extreme (-30°C)		3961.029	3978.951	3700-3980	PASS
	25°C	LV	3961.030	3978.950	3700-3980	PASS
		HV	3960.995	3978.985	3700-3980	PASS