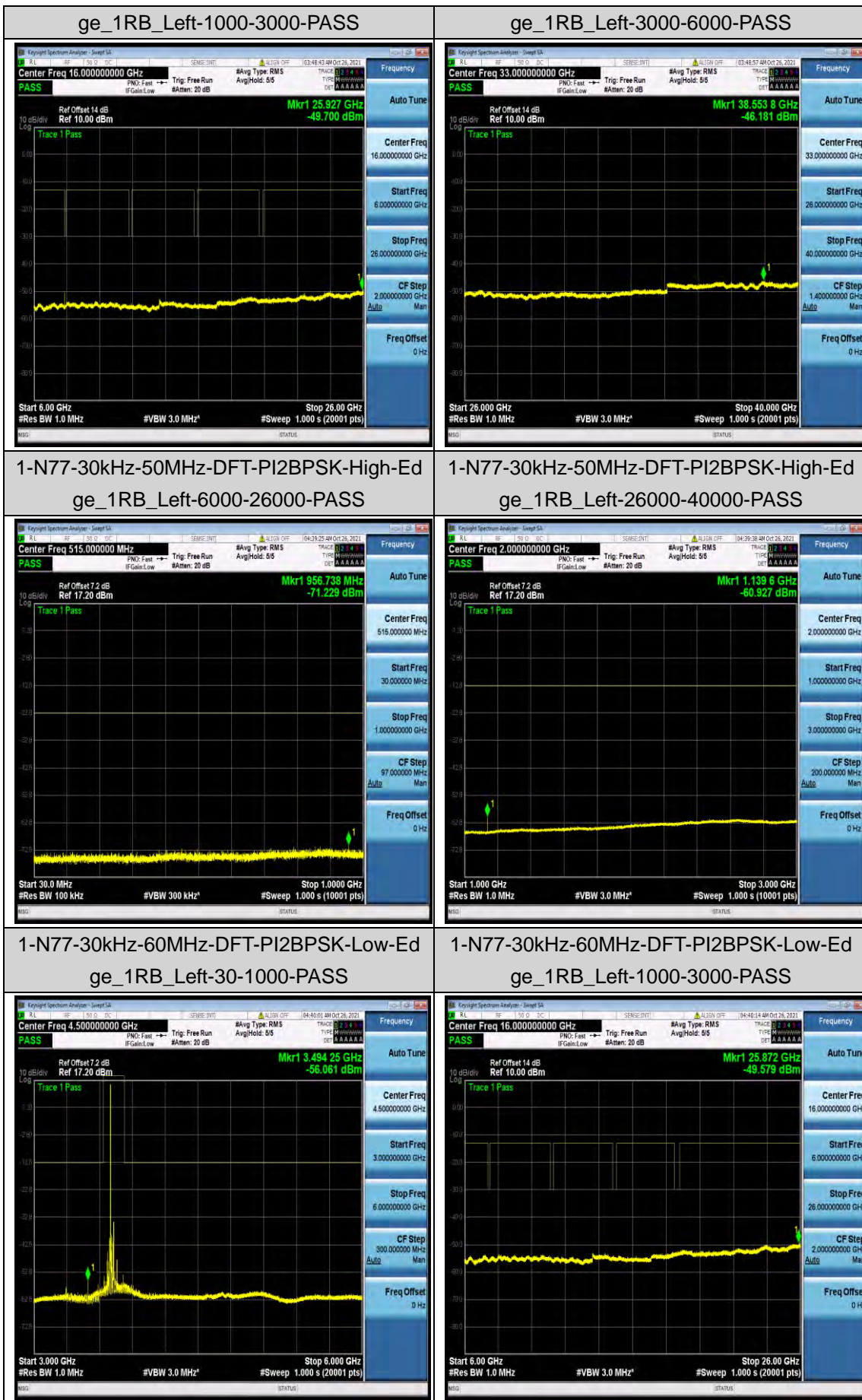




BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF06



BV 7Layers Communications Technology (Shenzhen) Co. Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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Email: customerservice.sw@bureauveritas.com



BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF06

<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Low-Ed ge_1RB_Left-3000-6000-PASS</p>	<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Low-Ed ge_1RB_Left-6000-26000-PASS</p>
<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Low-Ed ge_1RB_Left-26000-40000-PASS</p>	<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Mid-Ed e_1RB_Left-30-1000-PASS</p>
<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Mid-Ed ge_1RB_Left-1000-3000-PASS</p>	<p>1-N77-30kHz-60MHz-DFT-PI2BPSK-Mid-Ed e_1RB_Left-3000-6000-PASS</p>

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

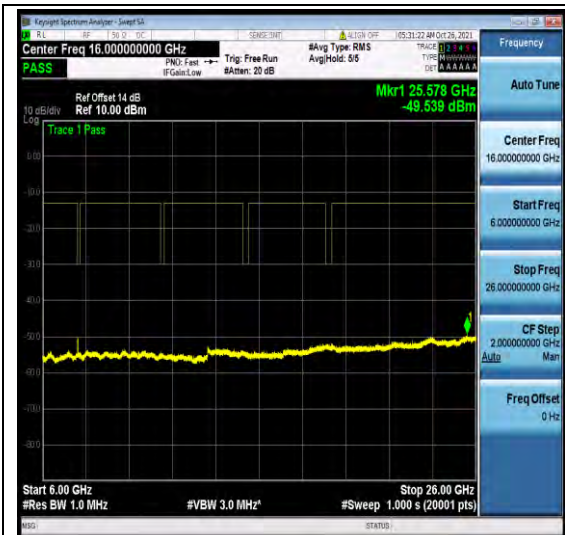
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
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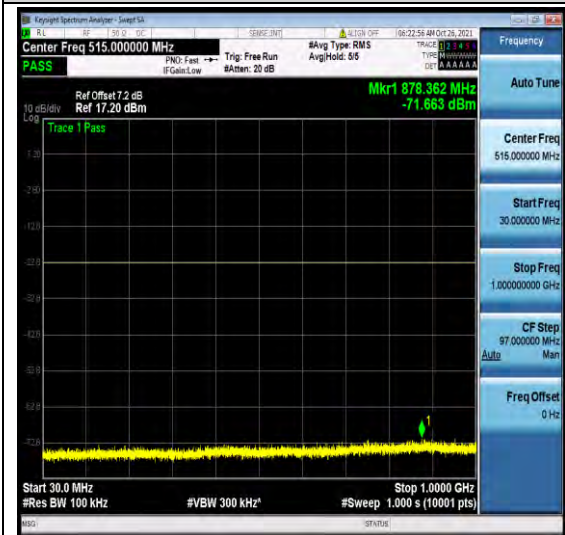
Test Report No.: W7L-P20210616-3RF06



1-N77-30kHz-60MHz-DFT-PI2BPSK-Mid-Edge_1RB_Left-6000-26000-PASS



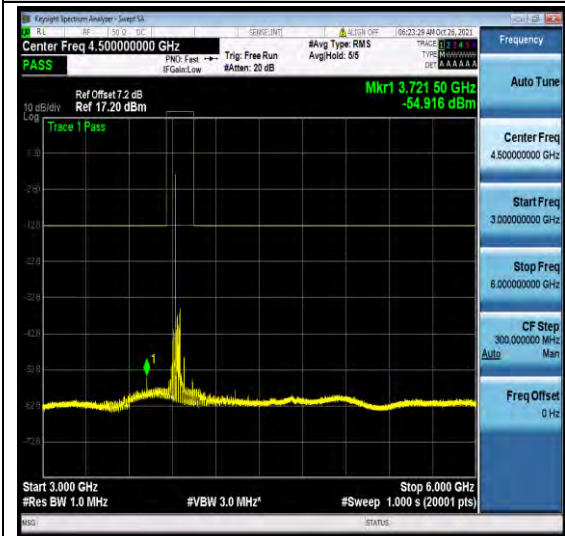
1-N77-30kHz-60MHz-DFT-PI2BPSK-Mid-Edge_1RB_Left-26000-40000-PASS



1-N77-30kHz-60MHz-DFT-PI2BPSK-High-Edge_1RB_Left-30-1000-PASS



1-N77-30kHz-60MHz-DFT-PI2BPSK-High-Edge_1RB_Left-1000-3000-PASS



1-N77-30kHz-60MHz-DFT-PI2BPSK-High-Edge



1-N77-30kHz-60MHz-DFT-PI2BPSK-High-Edge

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

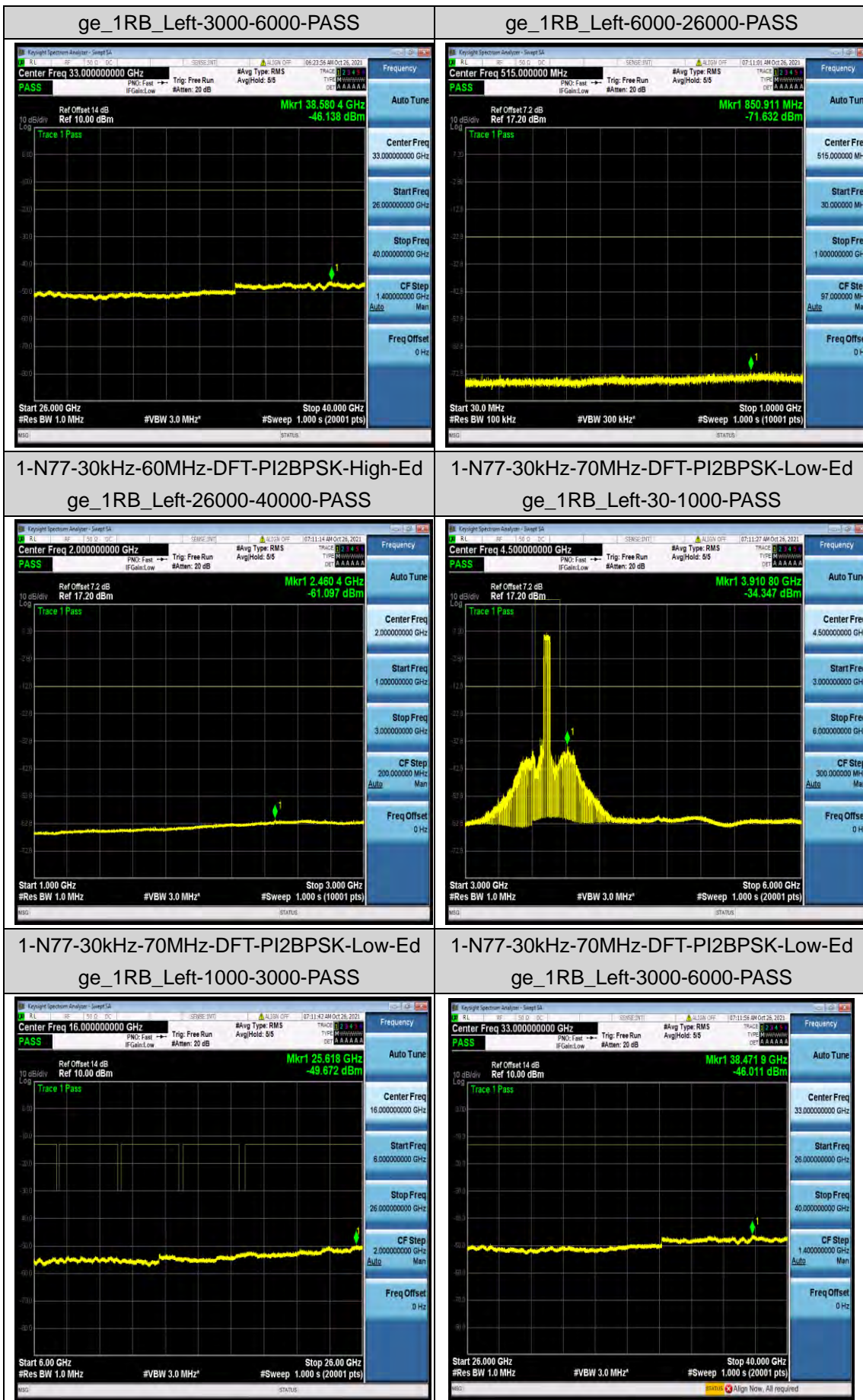
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF06

<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Low-Ed ge_1RB_Left-6000-26000-PASS</p>	<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Low-Ed ge_1RB_Left-26000-40000-PASS</p>
<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Mid-Ed ge_1RB_Left-30-1000-PASS</p>	<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Mid-Ed e_1RB_Left-1000-3000-PASS</p>
<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Mid-Ed ge_1RB_Left-3000-6000-PASS</p>	<p>1-N77-30kHz-70MHz-DFT-PI2BPSK-Mid-Ed e_1RB_Left-6000-26000-PASS</p>

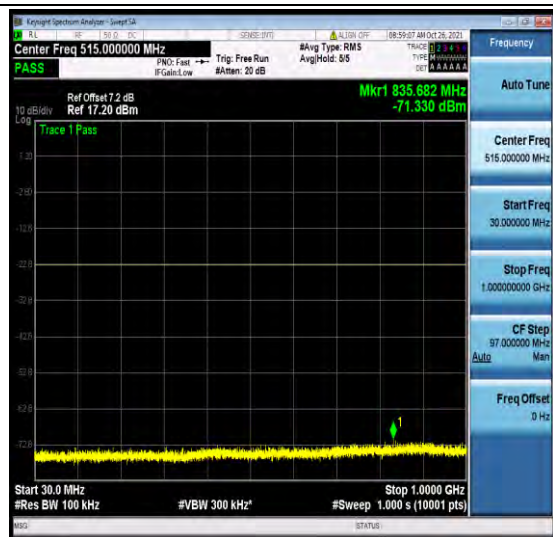


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Test Report No.: W7L-P20210616-3RF06



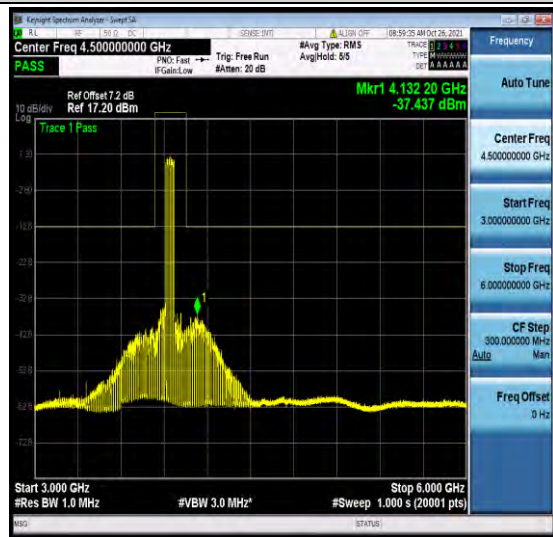
1-N77-30kHz-70MHz-DFT-PI2BPSK-Mid-Ed
ge_1RB_Left-26000-40000-PASS



1-N77-30kHz-70MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-30-1000-PASS



1-N77-30kHz-70MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-1000-3000-PASS



1-N77-30kHz-70MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-3000-6000-PASS



1-N77-30kHz-70MHz-DFT-PI2BPSK-High-Ed



1-N77-30kHz-70MHz-DFT-PI2BPSK-High-Ed

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

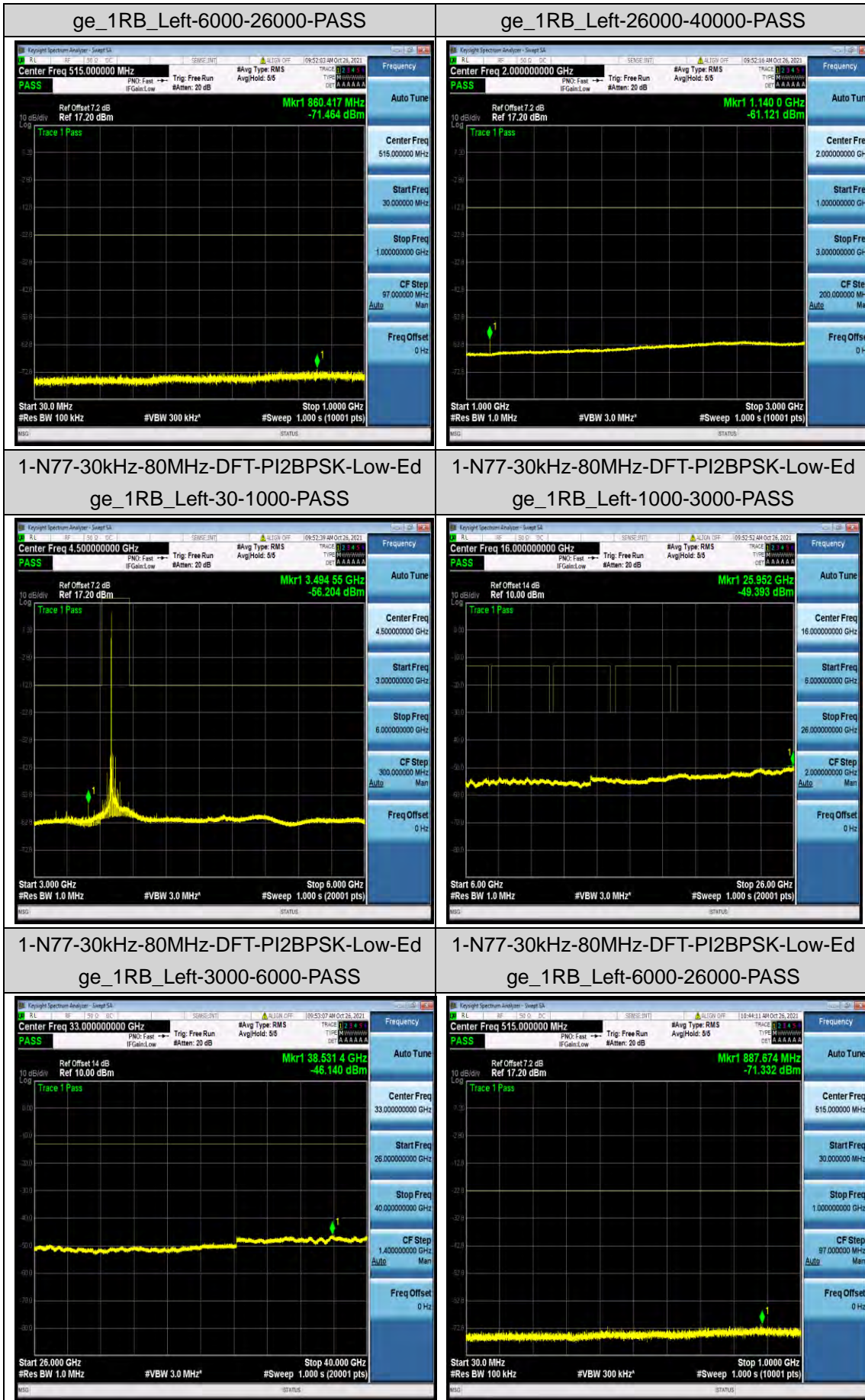
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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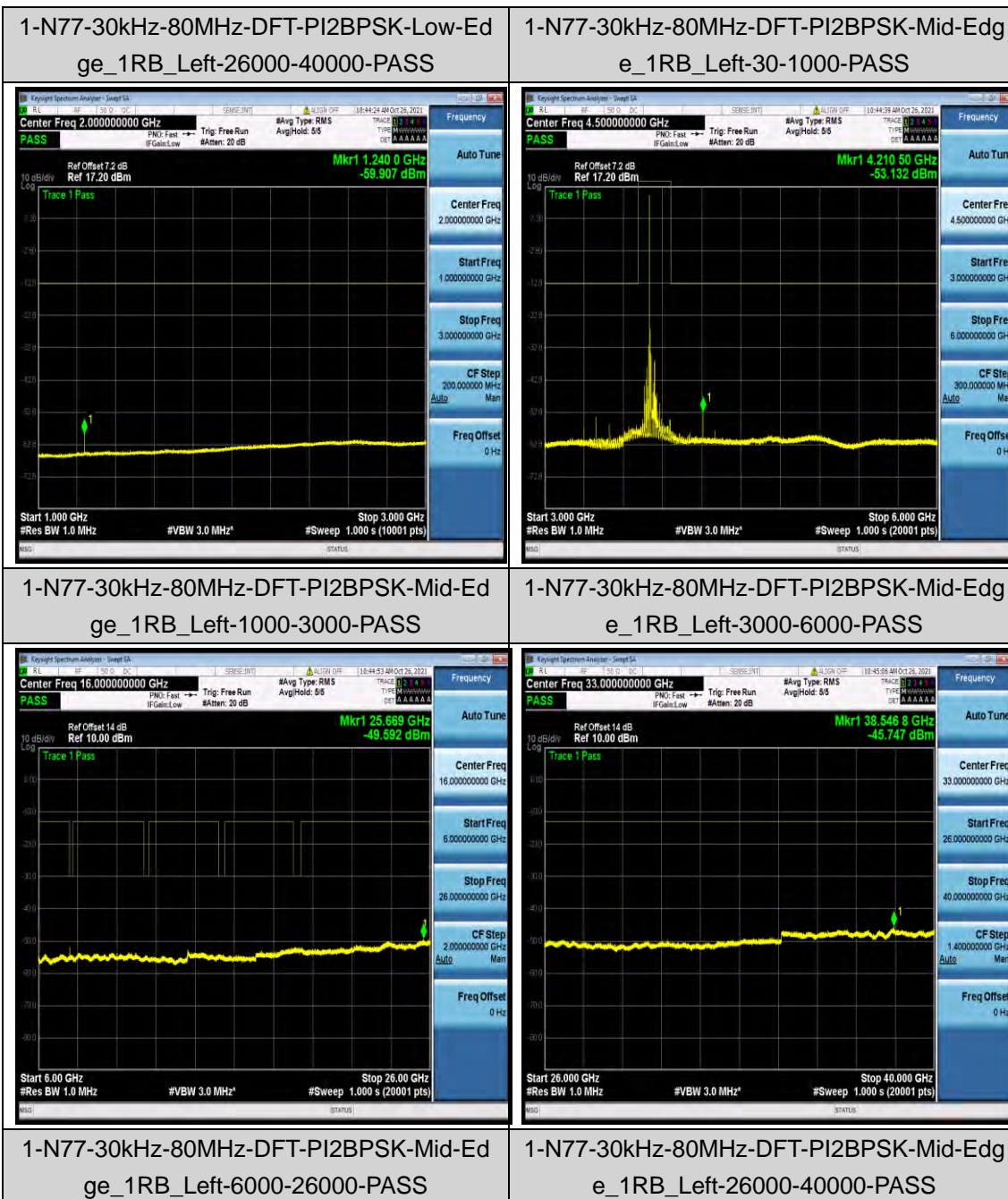
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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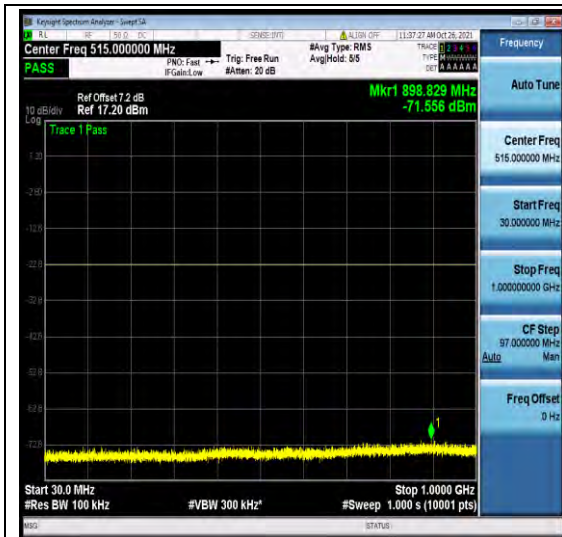
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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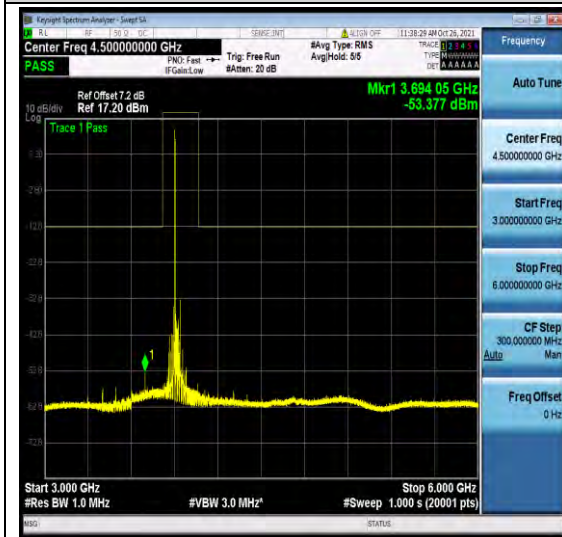
Test Report No.: W7L-P20210616-3RF06



1-N77-30kHz-80MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-30-1000-PASS



1-N77-30kHz-80MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-1000-3000-PASS



1-N77-30kHz-80MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-3000-6000-PASS



1-N77-30kHz-80MHz-DFT-PI2BPSK-High-Ed
ge_1RB_Left-6000-26000-PASS



1-N77-30kHz-80MHz-DFT-PI2BPSK-High-Ed



1-N77-30kHz-90MHz-DFT-PI2BPSK-Low-Ed

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Technology (Shenzhen) Co. Ltd

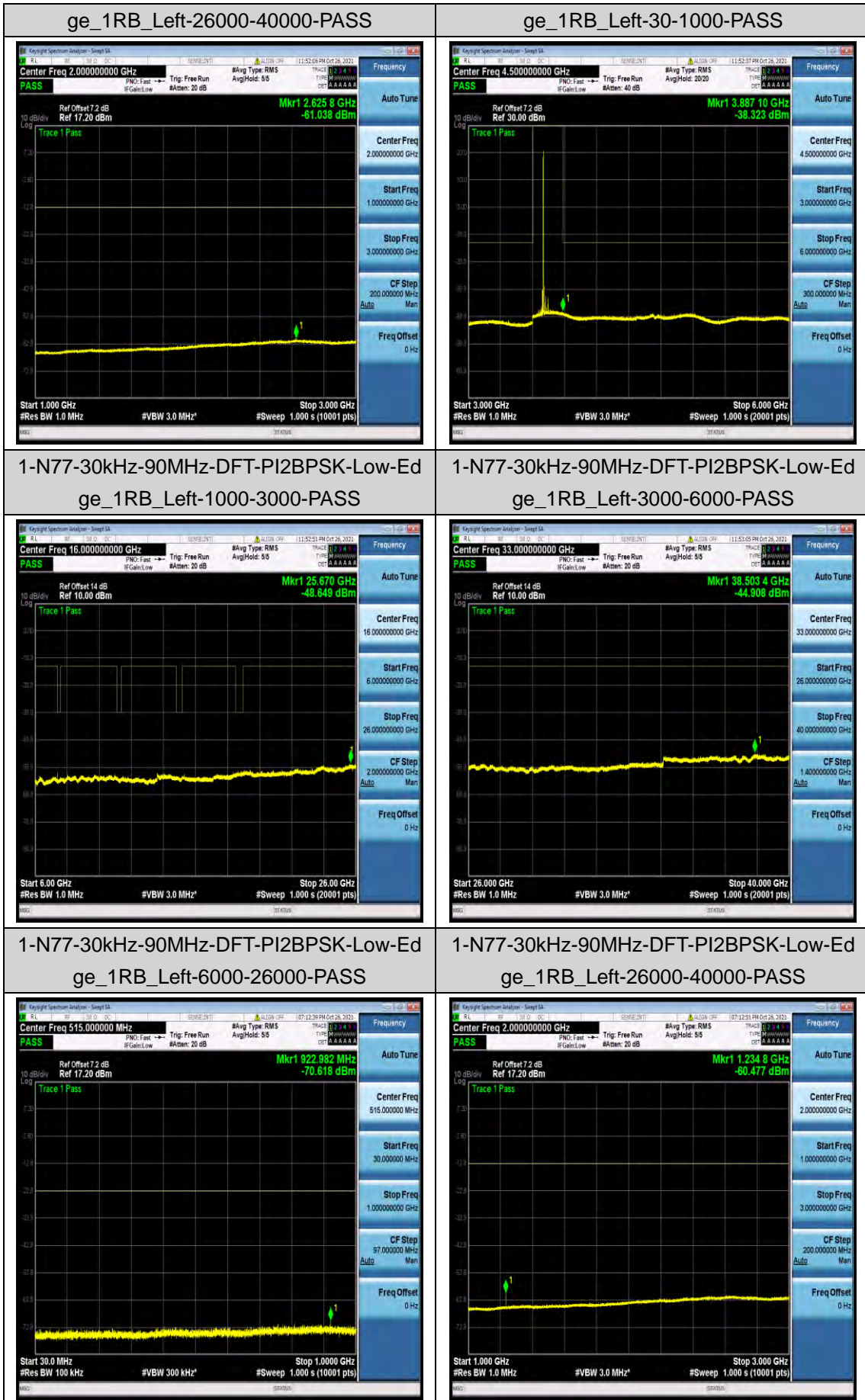
No.B102, Dazu Chuangxin Mansion, North of Beihuan
Avenue, North Area, Hi-Tech Industrial Park, Nanshan
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Test Report No.: W7L-P20210616-3RF06

<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-Mid-Edge_1RB_Left-30-1000-PASS</p>	<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-Mid-Edge_e_1RB_Left-1000-3000-PASS</p>
<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-Mid-Edge_1RB_Left-3000-6000-PASS</p>	<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-Mid-Edge_e_1RB_Left-6000-26000-PASS</p>
<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-Mid-Edge_1RB_Left-26000-40000-PASS</p>	<p>1-N77-30kHz-90MHz-DFT-PI2BPSK-High-Edge_1RB_Left-30-1000-PASS</p>

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

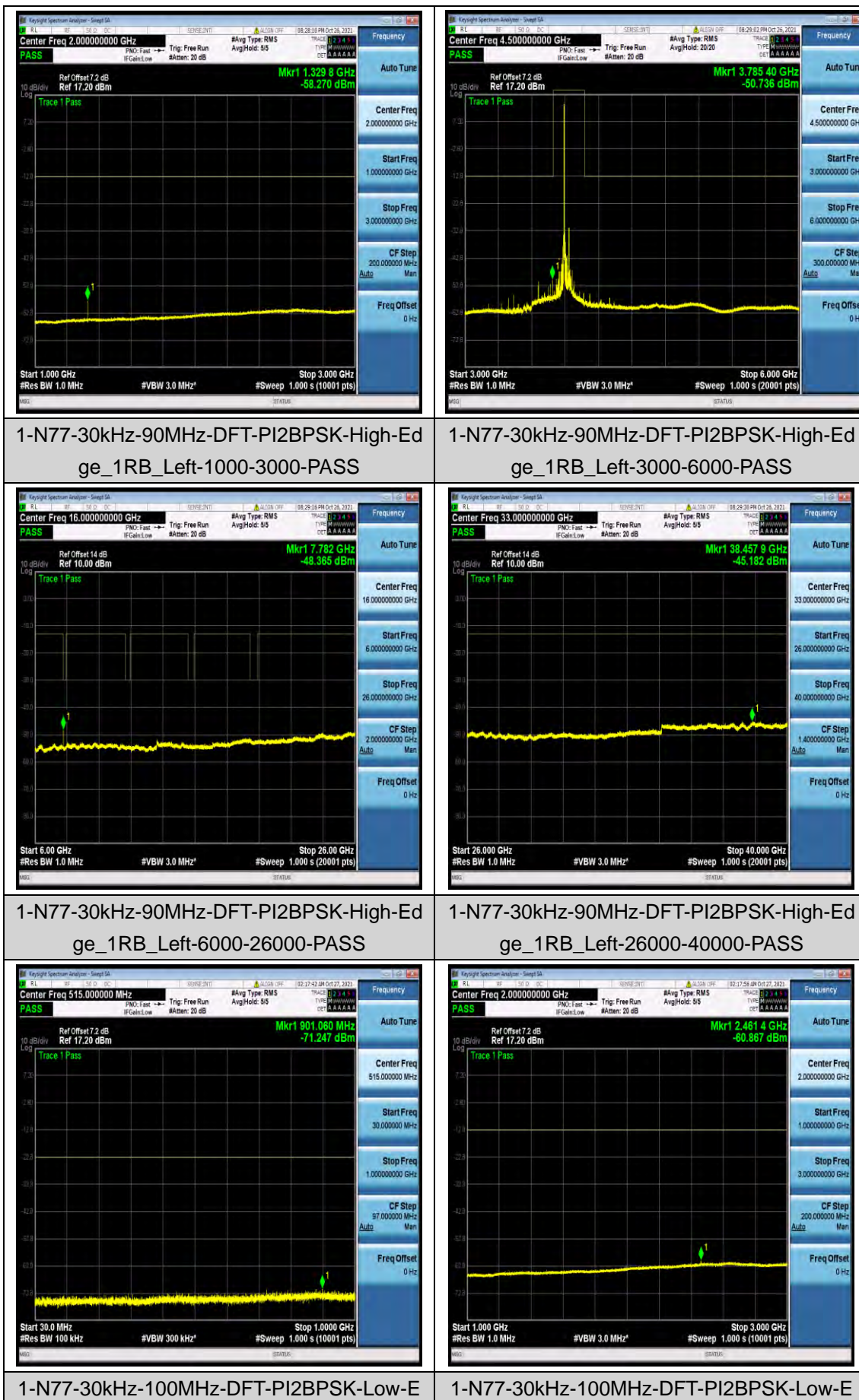
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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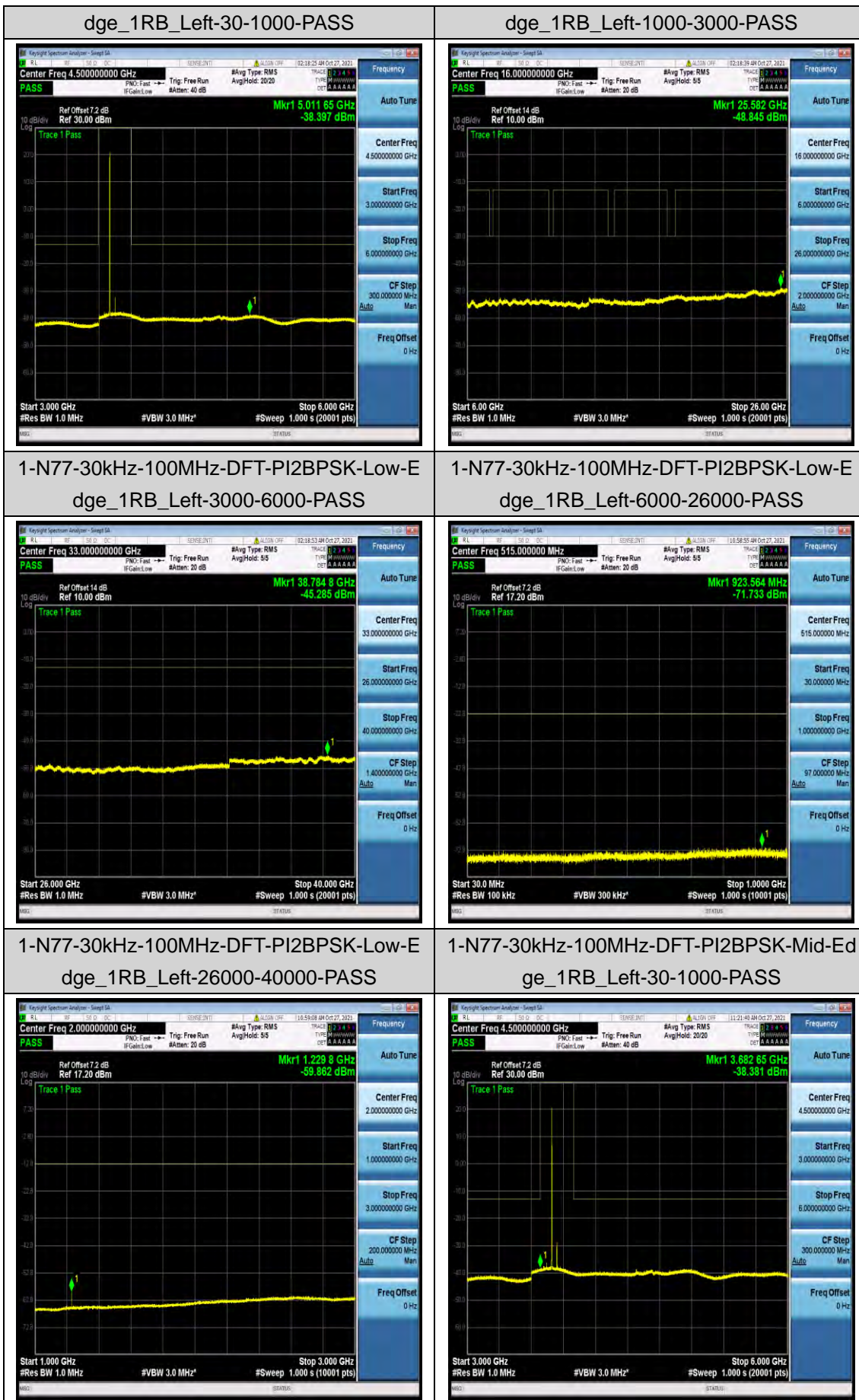
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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BUREAU VERITAS

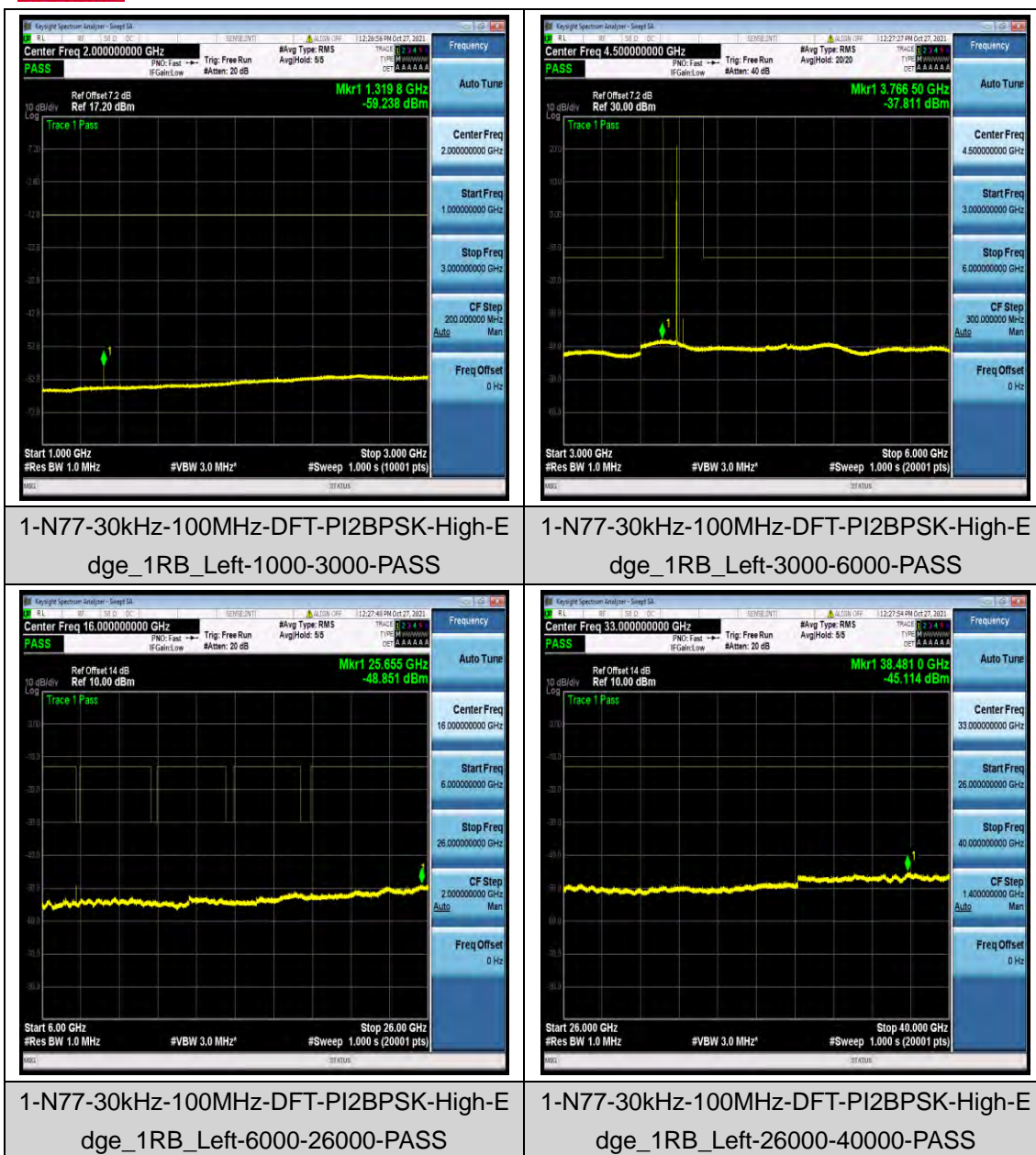
Test Report No.: W7L-P20210616-3RF06

<p>1-N77-30kHz-100MHz-DFT-PI2BPSK-Mid-E dge_1RB_Left-1000-3000-PASS</p>	<p>1-N77-30kHz-100MHz-DFT-PI2BPSK-Mid-Ed ge_1RB_Left-3000-6000-PASS</p>
<p>1-N77-30kHz-100MHz-DFT-PI2BPSK-Mid-E dge_1RB_Left-6000-26000-PASS</p>	<p>1-N77-30kHz-100MHz-DFT-PI2BPSK-Mid-Ed ge_1RB_Left-26000-40000-PASS</p>
<p>/</p>	
<p>/</p>	<p>1-N77-30kHz-100MHz-DFT-PI2BPSK-High-E dge_1RB_Left-30-1000-PASS</p>



BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF06



1-N77-30kHz-100MHz-DFT-PI2BPSK-High-E dge_1RB_Left-1000-3000-PASS

1-N77-30kHz-100MHz-DFT-PI2BPSK-High-E dge_1RB_Left-3000-6000-PASS

1-N77-30kHz-100MHz-DFT-PI2BPSK-High-E dge_1RB_Left-6000-26000-PASS

1-N77-30kHz-100MHz-DFT-PI2BPSK-High-E dge_1RB_Left-26000-40000-PASS

5. Frequency Stability for SA

5.1 N41 Test Result

N41 / Bandwidth: 100MHz / NTV													
Modulation	RB		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Allocation	Size			Offset	LCH	MCH	HCH	LCH	MCH	HCH		Limit
PI2BPSK	Full	0	20	10.20	-11.792	-11.230	-12.353	-0.0047	-0.0044	-0.0048	-2.5 to 2.5	Pass	
				12.00	-10.532	-10.030	-11.033	-0.0042	-0.0040	-0.0043	-2.5 to 2.5	Pass	
				13.80	-9.807	-9.340	-10.274	-0.0039	-0.0037	-0.0040	-2.5 to 2.5	Pass	
			-10	12	-8.984	-8.556	-9.412	-0.0036	-0.0034	-0.0037	-2.5 to 2.5	Pass	
			0	12	-7.466	-7.110	-7.821	-0.0030	-0.0028	-0.0030	-2.5 to 2.5	Pass	
			10	12	-6.279	-5.980	-6.578	-0.0025	-0.0024	-0.0026	-2.5 to 2.5	Pass	
			30	12	-4.536	-4.320	-4.752	-0.0018	-0.0017	-0.0019	-2.5 to 2.5	Pass	
			40	12	-2.919	-2.780	-3.058	-0.0012	-0.0011	-0.0012	-2.5 to 2.5	Pass	
			50	12	-1.271	-1.210	-1.331	-0.0005	-0.0005	-0.0005	-2.5 to 2.5	Pass	
QPSK	Full	0	20	10.20	-12.309	-11.786	-11.540	-0.0049	-0.0046	-0.0045	-2.5 to 2.5	Pass	
				12.00	-11.147	-10.672	-10.450	-0.0044	-0.0042	-0.0041	-2.5 to 2.5	Pass	
				13.80	-9.952	-9.529	-9.330	-0.0040	-0.0038	-0.0036	-2.5 to 2.5	Pass	
			-10	12	-8.981	-8.599	-8.420	-0.0036	-0.0034	-0.0033	-2.5 to 2.5	Pass	
			0	12	-7.584	-7.261	-7.110	-0.0030	-0.0029	-0.0028	-2.5 to 2.5	Pass	
			10	12	-5.803	-5.556	-5.440	-0.0023	-0.0022	-0.0021	-2.5 to 2.5	Pass	
			30	12	-4.149	-3.973	-3.890	-0.0017	-0.0016	-0.0015	-2.5 to 2.5	Pass	
40	12	-2.336	-2.237	-2.190	-0.0009	-0.0009	-0.0009	-2.5 to 2.5	Pass				



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			50	12	-0.469	-0.449	-0.440	-0.0002	-0.0002	-0.0002	-2.5 to 2.5	Pass
16QAM	Full	0	20	10.20	-12.090	-12.896	-12.150	-0.0048	-0.0051	-0.0047	-2.5 to 2.5	Pass
				12.00	-10.670	-11.381	-10.606	-0.0043	-0.0045	-0.0041	-2.5 to 2.5	Pass
				13.80	-9.340	-9.963	-9.159	-0.0037	-0.0039	-0.0036	-2.5 to 2.5	Pass
			-10	12	-8.240	-8.789	-7.963	-0.0033	-0.0035	-0.0031	-2.5 to 2.5	Pass
			0	12	-7.350	-7.840	-6.995	-0.0029	-0.0031	-0.0027	-2.5 to 2.5	Pass
			10	12	-5.480	-5.845	-4.961	-0.0022	-0.0023	-0.0019	-2.5 to 2.5	Pass
			30	12	-4.320	-4.608	-3.699	-0.0017	-0.0018	-0.0014	-2.5 to 2.5	Pass
			40	12	-2.890	-3.083	-2.143	-0.0012	-0.0012	-0.0008	-2.5 to 2.5	Pass
			50	12	-1.100	-1.173	-0.196	-0.0004	-0.0005	-0.0001	-2.5 to 2.5	Pass
64QAM	Full	0	20	10.20	-10.635	-10.890	-11.105	-0.0042	-0.0043	-0.0043	-2.5 to 2.5	Pass
				12.00	-8.997	-9.330	-9.514	-0.0036	-0.0037	-0.0037	-2.5 to 2.5	Pass
				13.80	-7.747	-8.140	-8.301	-0.0031	-0.0032	-0.0032	-2.5 to 2.5	Pass
			-10	12	-6.886	-7.320	-7.464	-0.0027	-0.0029	-0.0029	-2.5 to 2.5	Pass
			0	12	-5.847	-6.330	-6.455	-0.0023	-0.0025	-0.0025	-2.5 to 2.5	Pass
			10	12	-4.314	-4.870	-4.966	-0.0017	-0.0019	-0.0019	-2.5 to 2.5	Pass
			30	12	-2.571	-3.210	-3.273	-0.0010	-0.0013	-0.0013	-2.5 to 2.5	Pass
			40	12	-1.489	-2.180	-2.223	-0.0006	-0.0009	-0.0009	-2.5 to 2.5	Pass
			50	12	-0.376	-1.120	-1.142	-0.0001	-0.0004	-0.0004	-2.5 to 2.5	Pass
256QAM	Full	0	20	10.20	-10.744	-10.230	-11.259	-0.0063	-0.0059	-0.0064	-2.5 to 2.5	Pass
				12.00	-9.589	-9.130	-10.048	-0.0056	-0.0053	-0.0057	-2.5 to 2.5	Pass
				13.80	-8.066	-7.680	-8.452	-0.0047	-0.0044	-0.0048	-2.5 to 2.5	Pass



			-10	12	-6.921	-6.590	-7.253	-0.0040	-0.0038	-0.0041	-2.5 to 2.5	Pass
			0	12	-5.745	-5.470	-6.020	-0.0034	-0.0032	-0.0034	-2.5 to 2.5	Pass
			10	12	-4.506	-4.290	-4.721	-0.0026	-0.0025	-0.0027	-2.5 to 2.5	Pass
			30	12	-3.298	-3.140	-3.456	-0.0019	-0.0018	-0.0020	-2.5 to 2.5	Pass
			40	12	-2.185	-2.080	-2.289	-0.0013	-0.0012	-0.0013	-2.5 to 2.5	Pass
			50	12	-1.008	-0.960	-1.057	-0.0006	-0.0006	-0.0006	-2.5 to 2.5	Pass

5.2 N66 Test Result

N66 / Bandwidth: 40MHz / NTN													
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
PI2BPSK	Full	0	20	10.20	-10.405	-10.560	-11.290	-0.0056	-0.0056	-0.0059	-2.5 to 2.5	Pass	
				12.00	-9.170	-9.320	-9.937	-0.0050	-0.0050	-0.0052	-2.5 to 2.5	Pass	
				13.80	-7.965	-8.110	-8.617	-0.0043	-0.0043	-0.0045	-2.5 to 2.5	Pass	
			-10	12	-6.452	-6.590	-6.959	-0.0035	-0.0035	-0.0036	-2.5 to 2.5	Pass	
					0	-5.098	-5.230	-5.475	-0.0028	-0.0028	-0.0029	-2.5 to 2.5	Pass
					10	-3.933	-4.060	-4.199	-0.0021	-0.0022	-0.0022	-2.5 to 2.5	Pass
					30	-2.758	-2.880	-2.912	-0.0015	-0.0015	-0.0015	-2.5 to 2.5	Pass
					40	-1.553	-1.670	-1.592	-0.0008	-0.0009	-0.0008	-2.5 to 2.5	Pass
					50	-0.478	-0.590	-0.414	-0.0003	-0.0003	-0.0002	-2.5 to 2.5	Pass
QPSK	Full	0	20	10.20	-11.079	-10.755	-10.430	-0.0059	-0.0056	-0.0056	-2.5 to 2.5	Pass	
				12.00	-9.703	-9.432	-9.160	-0.0052	-0.0049	-0.0049	-2.5 to 2.5	Pass	
				13.80	-8.349	-8.130	-7.910	-0.0044	-0.0043	-0.0043	-2.5 to 2.5	Pass	



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			-10	12	-6.659	-6.505	-6.350	-0.0035	-0.0034	-0.0034	-2.5 to 2.5	Pass
			0	12	-5.143	-5.046	-4.950	-0.0027	-0.0026	-0.0027	-2.5 to 2.5	Pass
			10	12	-2.748	-2.744	-2.740	-0.0015	-0.0014	-0.0015	-2.5 to 2.5	Pass
			30	12	-2.521	-2.525	-2.530	-0.0013	-0.0013	-0.0014	-2.5 to 2.5	Pass
			40	12	-1.178	-1.234	-1.290	-0.0006	-0.0006	-0.0007	-2.5 to 2.5	Pass
			50	12	0.036	-0.067	-0.170	0.0000	0.0000	-0.0001	-2.5 to 2.5	Pass
16QAM	Full	0	20	10.20	-10.578	-11.260	-12.011	-0.0057	-0.0060	-0.0063	-2.5 to 2.5	Pass
				12.00	-9.610	-10.230	-10.912	-0.0052	-0.0054	-0.0057	-2.5 to 2.5	Pass
				13.80	-8.417	-8.960	-9.557	-0.0045	-0.0048	-0.0050	-2.5 to 2.5	Pass
			-10	12	-7.215	-7.680	-8.192	-0.0039	-0.0041	-0.0043	-2.5 to 2.5	Pass
			0	12	-6.153	-6.550	-6.987	-0.0033	-0.0035	-0.0037	-2.5 to 2.5	Pass
			10	12	-3.880	-4.130	-4.405	-0.0021	-0.0022	-0.0023	-2.5 to 2.5	Pass
			30	12	-3.062	-3.260	-3.477	-0.0017	-0.0017	-0.0018	-2.5 to 2.5	Pass
			40	12	-2.020	-2.150	-2.293	-0.0011	-0.0011	-0.0012	-2.5 to 2.5	Pass
			50	12	-0.921	-0.980	-1.045	-0.0005	-0.0005	-0.0005	-2.5 to 2.5	Pass
64QAM	Full	0	20	10.20	-12.396	-12.110	-11.002	-0.0067	-0.0064	-0.0058	-2.5 to 2.5	Pass
				12.00	-11.115	-10.890	-10.002	-0.0060	-0.0058	-0.0053	-2.5 to 2.5	Pass
				13.80	-9.834	-9.670	-9.001	-0.0053	-0.0051	-0.0047	-2.5 to 2.5	Pass
			-10	12	-8.637	-8.530	-8.067	-0.0047	-0.0045	-0.0042	-2.5 to 2.5	Pass
			0	12	-7.471	-7.420	-7.156	-0.0040	-0.0039	-0.0038	-2.5 to 2.5	Pass
			10	12	-6.148	-6.160	-6.123	-0.0033	-0.0033	-0.0032	-2.5 to 2.5	Pass
			30	12	-5.172	-5.230	-5.361	-0.0028	-0.0028	-0.0028	-2.5 to 2.5	Pass



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			40	12	-3.996	-4.110	-4.442	-0.0022	-0.0022	-0.0023	-2.5 to 2.5	Pass
			50	12	-2.389	-2.580	-3.188	-0.0013	-0.0014	-0.0017	-2.5 to 2.5	Pass
256QAM	Full	0	20	10.20	-11.026	-10.590	-10.843	-0.0059	-0.0056	-0.0057	-2.5 to 2.5	Pass
				12.00	-10.079	-9.880	-9.658	-0.0054	-0.0053	-0.0051	-2.5 to 2.5	Pass
				13.80	-8.893	-8.760	-8.406	-0.0048	-0.0047	-0.0044	-2.5 to 2.5	Pass
			-10	12	-7.726	-7.610	-7.222	-0.0042	-0.0040	-0.0038	-2.5 to 2.5	Pass
			0	12	-6.527	-6.530	-5.904	-0.0035	-0.0035	-0.0031	-2.5 to 2.5	Pass
			10	12	-5.261	-5.310	-4.593	-0.0028	-0.0028	-0.0024	-2.5 to 2.5	Pass
			30	12	-3.897	-4.110	-3.064	-0.0021	-0.0022	-0.0016	-2.5 to 2.5	Pass
			40	12	-2.542	-2.690	-1.775	-0.0014	-0.0014	-0.0009	-2.5 to 2.5	Pass
			50	12	-1.305	-1.530	-0.459	-0.0007	-0.0008	-0.0002	-2.5 to 2.5	Pass

5.3 N71 Test Result

N71 / Bandwidth: 20MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
PI2BPSK	Full	0	20	10.20	-10.350	-9.880	-10.240	-0.0056	-0.0053	-0.0054	-2.5 to 2.5	Pass
				12.00	-9.660	-8.670	-9.080	-0.0052	-0.0046	-0.0048	-2.5 to 2.5	Pass
				13.80	-8.520	-7.530	-7.920	-0.0046	-0.0040	-0.0041	-2.5 to 2.5	Pass
			-10	12	-7.310	-6.420	-6.810	-0.0039	-0.0034	-0.0036	-2.5 to 2.5	Pass
			0	12	-6.150	-5.310	-5.470	-0.0033	-0.0028	-0.0029	-2.5 to 2.5	Pass
			10	12	-4.880	-4.220	-4.330	-0.0026	-0.0022	-0.0023	-2.5 to 2.5	Pass
			30	12	-3.740	-3.060	-3.250	-0.0020	-0.0016	-0.0017	-2.5 to 2.5	Pass
			40	12	-2.610	-1.980	-2.140	-0.0014	-0.0011	-0.0011	-2.5 to 2.5	Pass



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											2.5	
			50	12	-1.440	-0.860	-1.090	-0.0008	-0.0005	-0.0006	-2.5 to 2.5	Pass
QPSK	Full	0	20	10.20	-10.550	-9.750	-10.670	-0.0057	-0.0052	-0.0056	-2.5 to 2.5	Pass
				12.00	-9.430	-8.660	-9.520	-0.0051	-0.0046	-0.0050	-2.5 to 2.5	Pass
				13.80	-8.210	-7.510	-8.410	-0.0044	-0.0040	-0.0044	-2.5 to 2.5	Pass
			-10	12	-7.060	-6.430	-7.220	-0.0038	-0.0034	-0.0038	-2.5 to 2.5	Pass
			0	12	-5.840	-5.320	-6.050	-0.0032	-0.0028	-0.0032	-2.5 to 2.5	Pass
			10	12	-4.610	-4.120	-4.890	-0.0025	-0.0022	-0.0026	-2.5 to 2.5	Pass
			30	12	-3.250	-3.090	-3.770	-0.0018	-0.0016	-0.0020	-2.5 to 2.5	Pass
			40	12	-2.010	-1.950	-2.510	-0.0011	-0.0010	-0.0013	-2.5 to 2.5	Pass
			50	12	-0.880	-0.670	-1.440	-0.0005	-0.0004	-0.0008	-2.5 to 2.5	Pass
16QAM	Full	0	20	10.20	-9.760	-11.010	-10.290	-0.0053	-0.0059	-0.0054	-2.5 to 2.5	Pass
				12.00	-8.640	-9.670	-9.140	-0.0047	-0.0051	-0.0048	-2.5 to 2.5	Pass
				13.80	-7.450	-8.510	-7.880	-0.0040	-0.0045	-0.0041	-2.5 to 2.5	Pass
			-10	12	-6.340	-7.430	-6.540	-0.0034	-0.0040	-0.0034	-2.5 to 2.5	Pass
			0	12	-5.320	-6.120	-5.410	-0.0029	-0.0033	-0.0028	-2.5 to 2.5	Pass
			10	12	-4.220	-5.010	-4.320	-0.0023	-0.0027	-0.0023	-2.5 to 2.5	Pass
			30	12	-3.110	-3.580	-3.180	-0.0017	-0.0019	-0.0017	-2.5 to 2.5	Pass
			40	12	-1.980	-2.230	-1.990	-0.0011	-0.0012	-0.0010	-2.5 to 2.5	Pass
			50	12	-0.670	-1.110	-0.670	-0.0004	-0.0006	-0.0004	-2.5 to 2.5	Pass
64QAM	Full	0	20	10.20	-9.940	-10.330	9.680	-0.0054	-0.0055	0.0051	-2.5 to 2.5	Pass
				12.00	-8.670	-9.120	-8.470	-0.0047	-0.0049	-0.0044	-2.5 to 2.5	Pass



				13.80	-7.410	-7.880	-7.130	-0.0040	-0.0042	-0.0037	-2.5 to 2.5	Pass			
			-10	12	-6.250	-6.540	-6.280	-0.0034	-0.0035	-0.0033	-2.5 to 2.5	Pass			
			0	12	-5.140	-5.340	-5.410	-0.0028	-0.0028	-0.0028	-2.5 to 2.5	Pass			
			10	12	-3.990	-4.130	-4.130	-0.0022	-0.0022	-0.0022	-2.5 to 2.5	Pass			
			30	12	-2.880	-3.060	-3.280	-0.0016	-0.0016	-0.0017	-2.5 to 2.5	Pass			
			40	12	-1.760	-1.880	-2.110	-0.0009	-0.0010	-0.0011	-2.5 to 2.5	Pass			
			50	12	-0.540	-0.530	-1.030	-0.0003	-0.0003	-0.0005	-2.5 to 2.5	Pass			
256QAM	Full	0	20	10.20	-10.220	-10.330	-10.190	-0.0055	-0.0055	-0.0054	-2.5 to 2.5	Pass			
				12.00	-9.080	-9.250	-9.160	-0.0049	-0.0049	-0.0048	-2.5 to 2.5	Pass			
				13.80	-7.880	-8.140	-8.030	-0.0042	-0.0043	-0.0042	-2.5 to 2.5	Pass			
						-10	12	-6.580	-7.060	-6.580	-0.0035	-0.0038	-0.0035	-2.5 to 2.5	Pass
						0	12	-5.470	-5.840	-5.470	-0.0029	-0.0031	-0.0029	-2.5 to 2.5	Pass
						10	12	-4.320	-4.360	-4.310	-0.0023	-0.0023	-0.0023	-2.5 to 2.5	Pass
						30	12	-3.250	-3.220	-3.290	-0.0017	-0.0017	-0.0017	-2.5 to 2.5	Pass
						40	12	-2.140	-2.150	-2.150	-0.0012	-0.0011	-0.0011	-2.5 to 2.5	Pass
						50	12	-1.060	-1.060	-1.090	-0.0006	-0.0006	-0.0006	-2.5 to 2.5	Pass

5.4 N77 Test Result

N77 / Bandwidth: 100MHz / NTV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
PI2BPSK	Full	0	20	10.20	-9.688	-9.840	-10.310	-0.0052	-0.0052	-0.0056	-2.5 to 2.5	Pass
				12.00	-8.682	-8.830	-9.560	-0.0047	-0.0047	-0.0052	-2.5 to 2.5	Pass
				13.80	-8.065	-8.210	-8.670	-0.0044	-0.0044	-0.0047	-2.5 to 2.5	Pass



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											2.5	
			-10	12	-7.497	-7.640	-7.640	-0.0041	-0.0041	-0.0041	-2.5 to 2.5	Pass
			0	12	-6.243	-6.380	-6.550	-0.0034	-0.0034	-0.0035	-2.5 to 2.5	Pass
			10	12	-5.815	-5.950	-5.420	-0.0031	-0.0032	-0.0029	-2.5 to 2.5	Pass
			30	12	-4.630	-4.760	-4.920	-0.0025	-0.0025	-0.0027	-2.5 to 2.5	Pass
			40	12	-3.136	-3.260	-4.430	-0.0017	-0.0017	-0.0024	-2.5 to 2.5	Pass
			50	12	-1.991	-2.110	-3.510	-0.0011	-0.0011	-0.0019	-2.5 to 2.5	Pass
QPSK	Full	0	20	10.20	-10.949	-9.732	-10.360	-0.0058	-0.0053	-0.0055	-2.5 to 2.5	Pass
				12.00	-10.137	-9.272	-9.870	-0.0054	-0.0050	-0.0053	-2.5 to 2.5	Pass
				13.80	-9.173	-8.464	-9.010	-0.0049	-0.0046	-0.0048	-2.5 to 2.5	Pass
			-10	12	-8.057	-8.116	-8.640	-0.0043	-0.0044	-0.0046	-2.5 to 2.5	Pass
			0	12	-6.876	-7.543	-8.030	-0.0037	-0.0041	-0.0043	-2.5 to 2.5	Pass
			10	12	-5.652	-0.717	-0.763	-0.0030	-0.0004	-0.0004	-2.5 to 2.5	Pass
			30	12	-5.110	-6.425	-6.840	-0.0027	-0.0035	-0.0036	-2.5 to 2.5	Pass
			40	12	-4.579	-5.420	-5.770	-0.0024	-0.0029	-0.0031	-2.5 to 2.5	Pass
			50	12	-3.583	-4.396	-4.680	-0.0019	-0.0024	-0.0025	-2.5 to 2.5	Pass
16QAM	Full	0	20	10.20	-10.149	-9.970	-10.307	-0.0055	-0.0053	-0.0055	-2.5 to 2.5	Pass
				12.00	-9.372	-9.230	-9.531	-0.0051	-0.0049	-0.0051	-2.5 to 2.5	Pass
				13.80	-8.910	-8.790	-8.699	-0.0048	-0.0047	-0.0047	-2.5 to 2.5	Pass
			-10	12	-8.143	-8.060	-8.104	-0.0044	-0.0043	-0.0044	-2.5 to 2.5	Pass
			0	12	-7.713	-7.650	-7.713	-0.0042	-0.0041	-0.0042	-2.5 to 2.5	Pass
			10	12	-6.862	-6.840	-7.015	-0.0037	-0.0036	-0.0038	-2.5 to 2.5	Pass



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			30	12	-6.201	-6.210	-5.680	-0.0033	-0.0033	-0.0031	-2.5 to 2.5	Pass			
			40	12	-5.329	-5.380	-4.539	-0.0029	-0.0029	-0.0024	-2.5 to 2.5	Pass			
			50	12	-4.699	-4.780	-3.738	-0.0025	-0.0025	-0.0020	-2.5 to 2.5	Pass			
64QAM	Full	0	20	10.20	-9.840	-10.283	-9.640	-0.0052	-0.0055	-0.0051	-2.5 to 2.5	Pass			
				12.00	-9.260	-9.024	-8.460	-0.0049	-0.0049	-0.0045	-2.5 to 2.5	Pass			
				13.80	-8.340	-8.192	-7.680	-0.0044	-0.0044	-0.0041	-2.5 to 2.5	Pass			
						-10	12	-7.680	-7.296	-6.840	-0.0041	-0.0039	-0.0036	-2.5 to 2.5	Pass
						0	12	-7.210	-6.283	-5.890	-0.0038	-0.0034	-0.0031	-2.5 to 2.5	Pass
						10	12	-6.940	-5.451	-5.110	-0.0037	-0.0029	-0.0027	-2.5 to 2.5	Pass
						30	12	-5.840	-4.544	-4.260	-0.0031	-0.0024	-0.0023	-2.5 to 2.5	Pass
						40	12	-4.370	-4.021	-3.770	-0.0023	-0.0022	-0.0020	-2.5 to 2.5	Pass
						50	12	-3.690	-3.136	-2.940	-0.0020	-0.0017	-0.0016	-2.5 to 2.5	Pass
256QAM	Full	0	20	10.20	-10.447	-10.110	-10.784	-0.0061	-0.0059	-0.0062	-2.5 to 2.5	Pass			
				12.00	-9.631	-9.320	-9.941	-0.0056	-0.0053	-0.0057	-2.5 to 2.5	Pass			
				13.80	-8.432	-8.160	-8.704	-0.0049	-0.0044	-0.0050	-2.5 to 2.5	Pass			
						-10	12	-7.326	-7.090	-7.563	-0.0043	-0.0038	-0.0043	-2.5 to 2.5	Pass
						0	12	-6.252	-6.050	-6.453	-0.0036	-0.0032	-0.0037	-2.5 to 2.5	Pass
						10	12	-5.673	-5.490	-5.856	-0.0033	-0.0025	-0.0034	-2.5 to 2.5	Pass
						30	12	-4.970	-4.810	-5.131	-0.0029	-0.0018	-0.0029	-2.5 to 2.5	Pass
						40	12	-4.051	-3.920	-4.181	-0.0024	-0.0012	-0.0024	-2.5 to 2.5	Pass
						50	12	-3.162	-3.060	-3.264	-0.0018	-0.0006	-0.0019	-2.5 to 2.5	Pass