1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	24.41	-4.20	18.06	<=34.77	Pass
			2	24.58	-4.20	18.23	<=34.77	Pass
			5	24.62	-4.20	18.27	<=34.77	Pass
		3	0	24.49	-4.20	18.14	<=34.77	Pass
			2	24.55	-4.20	18.20	<=34.77	Pass
			3	24.52	-4.20	18.17	<=34.77	Pass
		6	0	23.51	-4.20	17.16	<=34.77	Pass
	707.5	1	0	24.38	-4.20	18.03	<=34.77	Pass
			2	24.51	-4.20	18.16	<=34.77	Pass
			5	24.47	-4.20	18.12	<=34.77	Pass
		3	0	24.59	-4.20	18.24	<=34.77	Pass
			2	24.52	-4.20	18.17	<=34.77	Pass
			3	24.60	-4.20	18.25	<=34.77	Pass
		6	0	23.47	-4.20	17.12	<=34.77	Pass
	715.3	1	0	24.60	-4.20	18.25	<=34.77	Pass
			2	24.56	-4.20	18.21	<=34.77	Pass
			5	24.55	-4.20	18.20	<=34.77	Pass
		3	0	24.57	-4.20	18.22	<=34.77	Pass
			2	24.48	-4.20	18.13	<=34.77	Pass
			3	24.44	-4.20	18.09	<=34.77	Pass
		6	0	23.44	-4.20	17.09	<=34.77	Pass
16QAM	699.7	1	0	23.73	-4.20	17.38	<=34.77	Pass
			2	23.64	-4.20	17.29	<=34.77	Pass
			5	23.76	-4.20	17.41	<=34.77	Pass
		3	0	23.51	-4.20	17.16	<=34.77	Pass
			2	23.59	-4.20	17.24	<=34.77	Pass
			3	23.53	-4.20	17.18	<=34.77	Pass
		6	0	23.16	-4.20	16.81	<=34.77	Pass
	707.5	1	0	23.47	-4.20	17.12	<=34.77	Pass
			2	23.45	-4.20	17.10	<=34.77	Pass
			5	23.48	-4.20	17.13	<=34.77	Pass
		3	0	23.22	-4.20	16.87	<=34.77	Pass
			2	23.28	-4.20	16.93	<=34.77	Pass
			3	23.24	-4.20	16.89	<=34.77	Pass
		6	0	22.96	-4.20	16.61	<=34.77	Pass
	715.3	1	0	23.06	-4.20	16.71	<=34.77	Pass
			2	22.99	-4.20	16.64	<=34.77	Pass
			5	23.06	-4.20	16.71	<=34.77	Pass
		3	0	23.17	-4.20	16.82	<=34.77	Pass
			2	23.17	-4.20	16.82	<=34.77	Pass
			3	23.17	-4.20	16.82	<=34.77	Pass
		6	0	22.43	-4.20	16.08	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	24.43	-4.20	18.08	<=34.77	Pass
			7	24.45	-4.20	18.10	<=34.77	Pass
			14	24.44	-4.20	18.09	<=34.77	Pass
		8	0	23.56	-4.20	17.21	<=34.77	Pass
			4	23.53	-4.20	17.18	<=34.77	Pass
			7	23.60	-4.20	17.25	<=34.77	Pass
		15	0	23.49	-4.20	17.14	<=34.77	Pass
	707.5	1	0	24.44	-4.20	18.09	<=34.77	Pass
			7	24.49	-4.20	18.14	<=34.77	Pass
			14	24.54	-4.20	18.19	<=34.77	Pass
		8	0	23.40	-4.20	17.05	<=34.77	Pass
			4	23.45	-4.20	17.10	<=34.77	Pass
			7	23.41	-4.20	17.06	<=34.77	Pass
		15	0	23.40	-4.20	17.05	<=34.77	Pass
	714.5	1	0	24.60	-4.20	18.25	<=34.77	Pass
			7	24.59	-4.20	18.24	<=34.77	Pass
			14	24.58	-4.20	18.23	<=34.77	Pass
		8	0	23.50	-4.20	17.15	<=34.77	Pass
			4	23.49	-4.20	17.14	<=34.77	Pass
			7	23.40	-4.20	17.05	<=34.77	Pass
		15	0	23.62	-4.20	17.27	<=34.77	Pass
16QAM	700.5	1	0	23.55	-4.20	17.20	<=34.77	Pass
			7	23.48	-4.20	17.13	<=34.77	Pass
			14	23.60	-4.20	17.25	<=34.77	Pass
		8	0	23.19	-4.20	16.84	<=34.77	Pass
			4	23.15	-4.20	16.80	<=34.77	Pass
			7	22.82	-4.20	16.47	<=34.77	Pass
		15	0	23.03	-4.20	16.68	<=34.77	Pass
	707.5	1	0	22.96	-4.20	16.61	<=34.77	Pass
			7	22.86	-4.20	16.51	<=34.77	Pass
			14	22.95	-4.20	16.60	<=34.77	Pass
		8	0	22.57	-4.20	16.22	<=34.77	Pass
			4	23.17	-4.20	16.82	<=34.77	Pass
			7	23.13	-4.20	16.78	<=34.77	Pass
		15	0	22.99	-4.20	16.64	<=34.77	Pass
	714.5	1	0	23.92	-4.20	17.57	<=34.77	Pass
			7	23.88	-4.20	17.53	<=34.77	Pass
			14	23.86	-4.20	17.51	<=34.77	Pass
		8	0	22.57	-4.20	16.22	<=34.77	Pass
			4	22.54	-4.20	16.19	<=34.77	Pass
			7	22.54	-4.20	16.19	<=34.77	Pass
		15	0	22.55	-4.20	16.20	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	24.47	-4.20	18.12	<=34.77	Pass
			13	24.48	-4.20	18.13	<=34.77	Pass
			24	24.55	-4.20	18.20	<=34.77	Pass
		12	0	23.58	-4.20	17.23	<=34.77	Pass
			6	23.67	-4.20	17.32	<=34.77	Pass
			13	23.63	-4.20	17.28	<=34.77	Pass
		25	0	23.66	-4.20	17.31	<=34.77	Pass
	707.5	1	0	24.44	-4.20	18.09	<=34.77	Pass
			13	24.35	-4.20	18.00	<=34.77	Pass
			24	24.44	-4.20	18.09	<=34.77	Pass
		12	0	23.42	-4.20	17.07	<=34.77	Pass
			6	23.45	-4.20	17.10	<=34.77	Pass
			13	23.46	-4.20	17.11	<=34.77	Pass
		25	0	23.46	-4.20	17.11	<=34.77	Pass
	713.5	1	0	24.61	-4.20	18.26	<=34.77	Pass
			13	24.61	-4.20	18.26	<=34.77	Pass
			24	24.61	-4.20	18.26	<=34.77	Pass
		12	0	23.67	-4.20	17.32	<=34.77	Pass
			6	23.63	-4.20	17.28	<=34.77	Pass
			13	23.63	-4.20	17.28	<=34.77	Pass
		25	0	23.69	-4.20	17.34	<=34.77	Pass
16QAM	701.5	1	0	22.79	-4.20	16.44	<=34.77	Pass
			13	22.73	-4.20	16.38	<=34.77	Pass
			24	22.81	-4.20	16.46	<=34.77	Pass
		12	0	22.95	-4.20	16.60	<=34.77	Pass
			6	22.66	-4.20	16.31	<=34.77	Pass
			13	22.65	-4.20	16.30	<=34.77	Pass
		25	0	22.81	-4.20	16.46	<=34.77	Pass
	707.5	1	0	23.40	-4.20	17.05	<=34.77	Pass
			13	23.37	-4.20	17.02	<=34.77	Pass
			24	23.49	-4.20	17.14	<=34.77	Pass
		12	0	22.35	-4.20	16.00	<=34.77	Pass
			6	22.97	-4.20	16.62	<=34.77	Pass
			13	22.89	-4.20	16.54	<=34.77	Pass
		25	0	23.01	-4.20	16.66	<=34.77	Pass
	713.5	1	0	23.66	-4.20	17.31	<=34.77	Pass
			13	23.61	-4.20	17.26	<=34.77	Pass
			24	23.60	-4.20	17.25	<=34.77	Pass
		12	0	23.01	-4.20	16.66	<=34.77	Pass
			6	22.65	-4.20	16.30	<=34.77	Pass
			13	22.68	-4.20	16.33	<=34.77	Pass
		25	0	22.60	-4.20	16.25	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	24.44	-4.20	18.09	<=34.77	Pass
			25	24.55	-4.20	18.20	<=34.77	Pass
			49	24.50	-4.20	18.15	<=34.77	Pass
		25	0	23.67	-4.20	17.32	<=34.77	Pass
			13	23.63	-4.20	17.28	<=34.77	Pass
			25	23.50	-4.20	17.15	<=34.77	Pass
		50	0	23.59	-4.20	17.24	<=34.77	Pass
	707.5	1	0	24.53	-4.20	18.18	<=34.77	Pass
			25	24.51	-4.20	18.16	<=34.77	Pass
			49	24.54	-4.20	18.19	<=34.77	Pass
		25	0	23.48	-4.20	17.13	<=34.77	Pass
			13	23.52	-4.20	17.17	<=34.77	Pass
			25	23.38	-4.20	17.03	<=34.77	Pass
		50	0	23.54	-4.20	17.19	<=34.77	Pass
	711	1	0	24.45	-4.20	18.10	<=34.77	Pass
			25	24.51	-4.20	18.16	<=34.77	Pass
			49	24.52	-4.20	18.17	<=34.77	Pass
		25	0	23.43	-4.20	17.08	<=34.77	Pass
			13	23.44	-4.20	17.09	<=34.77	Pass
			25	23.69	-4.20	17.34	<=34.77	Pass
		50	0	23.55	-4.20	17.20	<=34.77	Pass
16QAM	704	1	0	23.91	-4.20	17.56	<=34.77	Pass
			25	23.89	-4.20	17.54	<=34.77	Pass
			49	23.76	-4.20	17.41	<=34.77	Pass
		25	0	22.61	-4.20	16.26	<=34.77	Pass
			13	22.49	-4.20	16.14	<=34.77	Pass
			25	22.46	-4.20	16.11	<=34.77	Pass
		50	0	22.56	-4.20	16.21	<=34.77	Pass
	707.5	1	0	22.94	-4.20	16.59	<=34.77	Pass
			25	22.98	-4.20	16.63	<=34.77	Pass
			49	23.05	-4.20	16.70	<=34.77	Pass
		25	0	22.61	-4.20	16.26	<=34.77	Pass
			13	23.13	-4.20	16.78	<=34.77	Pass
			25	23.08	-4.20	16.73	<=34.77	Pass
		50	0	22.96	-4.20	16.61	<=34.77	Pass
	711	1	0	24.12	-4.20	17.77	<=34.77	Pass
			25	24.07	-4.20	17.72	<=34.77	Pass
			49	24.10	-4.20	17.75	<=34.77	Pass
		25	0	22.98	-4.20	16.63	<=34.77	Pass
			13	22.99	-4.20	16.64	<=34.77	Pass
			25	22.72	-4.20	16.37	<=34.77	Pass
		50	0	22.95	-4.20	16.60	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	4.277	0.0061	-2.5 to 2.5	Pass
					3.85	-45.133	-0.0645	-2.5 to 2.5	Pass
					4.43	-43.144	-0.0617	-2.5 to 2.5	Pass
				-30	3.85	-26.894	-0.0384	-2.5 to 2.5	Pass
				-20	3.85	-47.908	-0.0685	-2.5 to 2.5	Pass
				-10	3.85	-11.516	-0.0165	-2.5 to 2.5	Pass
				0	3.85	-20.685	-0.0296	-2.5 to 2.5	Pass
				10	3.85	-29.054	-0.0415	-2.5 to 2.5	Pass
				30	3.85	-35.305	-0.0505	-2.5 to 2.5	Pass
				40	3.85	-39.082	-0.0559	-2.5 to 2.5	Pass
				50	3.85	-42.515	-0.0608	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	42.357	0.0599	-2.5 to 2.5	Pass
					3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
					4.43	-16.050	-0.0227	-2.5 to 2.5	Pass
				-30	3.85	-23.990	-0.0339	-2.5 to 2.5	Pass
				-20	3.85	-29.297	-0.0414	-2.5 to 2.5	Pass
				-10	3.85	-32.816	-0.0464	-2.5 to 2.5	Pass
				0	3.85	-32.930	-0.0465	-2.5 to 2.5	Pass
				10	3.85	-33.088	-0.0468	-2.5 to 2.5	Pass
				30	3.85	-34.618	-0.0489	-2.5 to 2.5	Pass
				40	3.85	-36.106	-0.0510	-2.5 to 2.5	Pass
				50	3.85	-35.863	-0.0507	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	45.261	0.0633	-2.5 to 2.5	Pass
					3.85	27.251	0.0381	-2.5 to 2.5	Pass
					4.43	9.499	0.0133	-2.5 to 2.5	Pass
				-30	3.85	-4.964	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-16.851	-0.0236	-2.5 to 2.5	Pass
				-10	3.85	-24.319	-0.0340	-2.5 to 2.5	Pass
				0	3.85	-27.938	-0.0391	-2.5 to 2.5	Pass
				10	3.85	-41.356	-0.0578	-2.5 to 2.5	Pass
				30	3.85	-46.177	-0.0646	-2.5 to 2.5	Pass
				40	3.85	-3.662	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-5.178	-0.0072	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-42.529	-0.0608	-2.5 to 2.5	Pass
					3.85	-35.849	-0.0512	-2.5 to 2.5	Pass
					4.43	-27.323	-0.0390	-2.5 to 2.5	Pass
				-30	3.85	-19.984	-0.0286	-2.5 to 2.5	Pass
				-20	3.85	-14.119	-0.0202	-2.5 to 2.5	Pass
				-10	3.85	-9.999	-0.0143	-2.5 to 2.5	Pass
				0	3.85	-8.640	-0.0123	-2.5 to 2.5	Pass
				10	3.85	-9.384	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-6.623	-0.0095	-2.5 to 2.5	Pass
				50	3.85	-4.992	-0.0071	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-35.620	-0.0503	-2.5 to 2.5	Pass
					3.85	-28.110	-0.0397	-2.5 to 2.5	Pass
					4.43	-19.269	-0.0272	-2.5 to 2.5	Pass
				-30	3.85	-12.760	-0.0180	-2.5 to 2.5	Pass
				-20	3.85	-6.981	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-2.389	-0.0034	-2.5 to 2.5	Pass

				0	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				10	3.85	5.450	0.0077	-2.5 to 2.5	Pass
				30	3.85	11.101	0.0157	-2.5 to 2.5	Pass
				40	3.85	14.820	0.0209	-2.5 to 2.5	Pass
				50	3.85	15.392	0.0218	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-6.180	-0.0086	-2.5 to 2.5	Pass
					3.85	2.875	0.0040	-2.5 to 2.5	Pass
					4.43	10.886	0.0152	-2.5 to 2.5	Pass
				-30	3.85	16.580	0.0232	-2.5 to 2.5	Pass
				-20	3.85	20.628	0.0288	-2.5 to 2.5	Pass
				-10	3.85	23.775	0.0332	-2.5 to 2.5	Pass
				0	3.85	26.751	0.0374	-2.5 to 2.5	Pass
				10	3.85	30.098	0.0421	-2.5 to 2.5	Pass
				30	3.85	34.289	0.0479	-2.5 to 2.5	Pass
				40	3.85	36.192	0.0506	-2.5 to 2.5	Pass
				50	3.85	37.766	0.0528	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-18.396	-0.0263	-2.5 to 2.5	Pass
					3.85	-17.767	-0.0254	-2.5 to 2.5	Pass
					4.43	-6.638	-0.0095	-2.5 to 2.5	Pass
				-30	3.85	-24.791	-0.0354	-2.5 to 2.5	Pass
				-20	3.85	-20.528	-0.0293	-2.5 to 2.5	Pass
				-10	3.85	-11.344	-0.0162	-2.5 to 2.5	Pass
				0	3.85	-39.053	-0.0558	-2.5 to 2.5	Pass
				10	3.85	-8.168	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-28.210	-0.0403	-2.5 to 2.5	Pass
				40	3.85	-43.588	-0.0622	-2.5 to 2.5	Pass
				50	3.85	-11.501	-0.0164	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	43.731	0.0618	-2.5 to 2.5	Pass
					3.85	41.485	0.0586	-2.5 to 2.5	Pass
					4.43	31.500	0.0445	-2.5 to 2.5	Pass
				-30	3.85	20.299	0.0287	-2.5 to 2.5	Pass
				-20	3.85	10.300	0.0146	-2.5 to 2.5	Pass
				-10	3.85	5.236	0.0074	-2.5 to 2.5	Pass
				0	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				10	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-4.034	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	39.682	0.0555	-2.5 to 2.5	Pass
					3.85	32.473	0.0454	-2.5 to 2.5	Pass
					4.43	11.330	0.0159	-2.5 to 2.5	Pass
				-30	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-18.768	-0.0263	-2.5 to 2.5	Pass
				-10	3.85	-25.220	-0.0353	-2.5 to 2.5	Pass
				0	3.85	-31.600	-0.0442	-2.5 to 2.5	Pass
				10	3.85	-39.053	-0.0547	-2.5 to 2.5	Pass
				30	3.85	-44.088	-0.0617	-2.5 to 2.5	Pass
				40	3.85	1.073	0.0015	-2.5 to 2.5	Pass
				50	3.85	-3.090	-0.0043	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-24.433	-0.0349	-2.5 to 2.5	Pass
					3.85	-27.180	-0.0388	-2.5 to 2.5	Pass
					4.43	-26.221	-0.0374	-2.5 to 2.5	Pass

				-30	3.85	-26.650	-0.0380	-2.5 to 2.5	Pass
				-20	3.85	-29.640	-0.0423	-2.5 to 2.5	Pass
				-10	3.85	-30.427	-0.0434	-2.5 to 2.5	Pass
				0	3.85	-34.447	-0.0492	-2.5 to 2.5	Pass
				10	3.85	-37.065	-0.0529	-2.5 to 2.5	Pass
				30	3.85	-38.953	-0.0556	-2.5 to 2.5	Pass
				40	3.85	-41.084	-0.0586	-2.5 to 2.5	Pass
				50	3.85	-43.502	-0.0621	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-6.080	-0.0086	-2.5 to 2.5	Pass
					3.85	1.130	0.0016	-2.5 to 2.5	Pass
					4.43	7.854	0.0111	-2.5 to 2.5	Pass
				-30	3.85	13.146	0.0186	-2.5 to 2.5	Pass
				-20	3.85	15.593	0.0220	-2.5 to 2.5	Pass
				-10	3.85	18.325	0.0259	-2.5 to 2.5	Pass
				0	3.85	19.698	0.0278	-2.5 to 2.5	Pass
				10	3.85	20.471	0.0289	-2.5 to 2.5	Pass
				30	3.85	22.717	0.0321	-2.5 to 2.5	Pass
				40	3.85	25.449	0.0360	-2.5 to 2.5	Pass
				50	3.85	29.125	0.0412	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-1.316	-0.0018	-2.5 to 2.5	Pass
					3.85	8.841	0.0124	-2.5 to 2.5	Pass
					4.43	17.037	0.0238	-2.5 to 2.5	Pass
				-30	3.85	22.030	0.0308	-2.5 to 2.5	Pass
				-20	3.85	27.967	0.0391	-2.5 to 2.5	Pass
				-10	3.85	33.202	0.0465	-2.5 to 2.5	Pass
				0	3.85	36.392	0.0509	-2.5 to 2.5	Pass
				10	3.85	37.851	0.0530	-2.5 to 2.5	Pass
				30	3.85	38.552	0.0540	-2.5 to 2.5	Pass
				40	3.85	40.469	0.0566	-2.5 to 2.5	Pass
				50	3.85	41.428	0.0580	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	4.921	0.0070	-2.5 to 2.5	Pass
					3.85	-27.008	-0.0385	-2.5 to 2.5	Pass
					4.43	-21.930	-0.0313	-2.5 to 2.5	Pass
				-30	3.85	-18.497	-0.0264	-2.5 to 2.5	Pass
				-20	3.85	-17.066	-0.0243	-2.5 to 2.5	Pass
				-10	3.85	-33.731	-0.0481	-2.5 to 2.5	Pass
				0	3.85	-43.759	-0.0624	-2.5 to 2.5	Pass
				10	3.85	-9.055	-0.0129	-2.5 to 2.5	Pass
				30	3.85	-17.266	-0.0246	-2.5 to 2.5	Pass
				40	3.85	-23.661	-0.0337	-2.5 to 2.5	Pass
				50	3.85	-29.325	-0.0418	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	3.934	0.0056	-2.5 to 2.5	Pass
					3.85	2.947	0.0042	-2.5 to 2.5	Pass
					4.43	-9.956	-0.0141	-2.5 to 2.5	Pass
				-30	3.85	-25.234	-0.0357	-2.5 to 2.5	Pass
				-20	3.85	-38.409	-0.0543	-2.5 to 2.5	Pass
				-10	3.85	-40.855	-0.0577	-2.5 to 2.5	Pass
				0	3.85	-6.480	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-9.255	-0.0131	-2.5 to 2.5	Pass
				30	3.85	-12.875	-0.0182	-2.5 to 2.5	Pass
				40	3.85	-14.791	-0.0209	-2.5 to 2.5	Pass
				50	3.85	-17.295	-0.0244	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	1.531	0.0021	-2.5 to 2.5	Pass
					3.85	-4.807	-0.0067	-2.5 to 2.5	Pass
					4.43	-17.424	-0.0244	-2.5 to 2.5	Pass
				-30	3.85	-26.121	-0.0366	-2.5 to 2.5	Pass
				-20	3.85	-33.016	-0.0463	-2.5 to 2.5	Pass
				-10	3.85	-36.850	-0.0516	-2.5 to 2.5	Pass
				0	3.85	-41.227	-0.0578	-2.5 to 2.5	Pass
				10	3.85	-45.733	-0.0641	-2.5 to 2.5	Pass
				30	3.85	-46.220	-0.0648	-2.5 to 2.5	Pass
				40	3.85	-10.257	-0.0144	-2.5 to 2.5	Pass
				50	3.85	-18.940	-0.0265	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-35.391	-0.0505	-2.5 to 2.5	Pass
					3.85	-30.670	-0.0437	-2.5 to 2.5	Pass
					4.43	-25.964	-0.0370	-2.5 to 2.5	Pass
				-30	3.85	-22.302	-0.0318	-2.5 to 2.5	Pass
				-20	3.85	-20.528	-0.0293	-2.5 to 2.5	Pass
				-10	3.85	-19.484	-0.0278	-2.5 to 2.5	Pass
				0	3.85	-15.006	-0.0214	-2.5 to 2.5	Pass
				10	3.85	-12.474	-0.0178	-2.5 to 2.5	Pass
				30	3.85	-10.600	-0.0151	-2.5 to 2.5	Pass
				40	3.85	-8.497	-0.0121	-2.5 to 2.5	Pass
				50	3.85	-9.484	-0.0135	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-18.768	-0.0265	-2.5 to 2.5	Pass
					3.85	-10.529	-0.0149	-2.5 to 2.5	Pass
					4.43	-2.818	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	5.236	0.0074	-2.5 to 2.5	Pass
				-20	3.85	9.098	0.0129	-2.5 to 2.5	Pass
				-10	3.85	13.075	0.0185	-2.5 to 2.5	Pass
				0	3.85	16.050	0.0227	-2.5 to 2.5	Pass
				10	3.85	18.053	0.0255	-2.5 to 2.5	Pass
				30	3.85	18.668	0.0264	-2.5 to 2.5	Pass
				40	3.85	19.813	0.0280	-2.5 to 2.5	Pass
				50	3.85	18.611	0.0263	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-25.935	-0.0363	-2.5 to 2.5	Pass
					3.85	-19.126	-0.0268	-2.5 to 2.5	Pass
					4.43	-13.604	-0.0191	-2.5 to 2.5	Pass
				-30	3.85	-9.270	-0.0130	-2.5 to 2.5	Pass
				-20	3.85	-2.604	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	1.788	0.0025	-2.5 to 2.5	Pass
				0	3.85	4.835	0.0068	-2.5 to 2.5	Pass
				10	3.85	5.593	0.0078	-2.5 to 2.5	Pass
				30	3.85	8.483	0.0119	-2.5 to 2.5	Pass
				40	3.85	8.826	0.0124	-2.5 to 2.5	Pass
				50	3.85	9.942	0.0139	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-3.476	-0.0049	-2.5 to 2.5	Pass
					3.85	-20.657	-0.0293	-2.5 to 2.5	Pass
					4.43	-17.195	-0.0244	-2.5 to 2.5	Pass
				-30	3.85	-31.085	-0.0442	-2.5 to 2.5	Pass
				-20	3.85	-12.217	-0.0174	-2.5 to 2.5	Pass
				-10	3.85	-20.728	-0.0294	-2.5 to 2.5	Pass
				0	3.85	-29.154	-0.0414	-2.5 to 2.5	Pass
				10	3.85	-32.258	-0.0458	-2.5 to 2.5	Pass

				30	3.85	-37.851	-0.0538	-2.5 to 2.5	Pass
				40	3.85	-39.639	-0.0563	-2.5 to 2.5	Pass
				50	3.85	-39.926	-0.0567	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.345	-0.0019	-2.5 to 2.5	Pass
					3.85	-28.839	-0.0408	-2.5 to 2.5	Pass
					4.43	-8.740	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-26.894	-0.0380	-2.5 to 2.5	Pass
				-20	3.85	-36.278	-0.0513	-2.5 to 2.5	Pass
				-10	3.85	-40.698	-0.0575	-2.5 to 2.5	Pass
				0	3.85	-47.622	-0.0673	-2.5 to 2.5	Pass
				10	3.85	-9.856	-0.0139	-2.5 to 2.5	Pass
				30	3.85	-14.119	-0.0200	-2.5 to 2.5	Pass
				40	3.85	-17.667	-0.0250	-2.5 to 2.5	Pass
				50	3.85	-20.013	-0.0283	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.166	-0.0087	-2.5 to 2.5	Pass
					3.85	-26.050	-0.0366	-2.5 to 2.5	Pass
					4.43	-18.682	-0.0263	-2.5 to 2.5	Pass
				-30	3.85	-16.251	-0.0229	-2.5 to 2.5	Pass
				-20	3.85	-26.293	-0.0370	-2.5 to 2.5	Pass
				-10	3.85	-36.950	-0.0520	-2.5 to 2.5	Pass
				0	3.85	-40.469	-0.0569	-2.5 to 2.5	Pass
				10	3.85	-45.376	-0.0638	-2.5 to 2.5	Pass
				30	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				40	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-6.008	-0.0085	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-38.910	-0.0553	-2.5 to 2.5	Pass
					3.85	-27.523	-0.0391	-2.5 to 2.5	Pass
					4.43	-22.373	-0.0318	-2.5 to 2.5	Pass
				-30	3.85	-14.677	-0.0208	-2.5 to 2.5	Pass
				-20	3.85	-13.032	-0.0185	-2.5 to 2.5	Pass
				-10	3.85	-7.982	-0.0113	-2.5 to 2.5	Pass
				0	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				30	3.85	3.147	0.0045	-2.5 to 2.5	Pass
				40	3.85	3.905	0.0055	-2.5 to 2.5	Pass
				50	3.85	3.219	0.0046	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-17.138	-0.0242	-2.5 to 2.5	Pass
					3.85	-7.696	-0.0109	-2.5 to 2.5	Pass
					4.43	0.515	0.0007	-2.5 to 2.5	Pass
				-30	3.85	8.783	0.0124	-2.5 to 2.5	Pass
				-20	3.85	15.678	0.0222	-2.5 to 2.5	Pass
				-10	3.85	18.067	0.0255	-2.5 to 2.5	Pass
				0	3.85	16.923	0.0239	-2.5 to 2.5	Pass
				10	3.85	16.451	0.0233	-2.5 to 2.5	Pass
				30	3.85	17.409	0.0246	-2.5 to 2.5	Pass
				40	3.85	21.143	0.0299	-2.5 to 2.5	Pass
				50	3.85	24.633	0.0348	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-2.475	-0.0035	-2.5 to 2.5	Pass
					3.85	11.029	0.0155	-2.5 to 2.5	Pass
					4.43	22.259	0.0313	-2.5 to 2.5	Pass
				-30	3.85	28.710	0.0404	-2.5 to 2.5	Pass
				-20	3.85	31.013	0.0436	-2.5 to 2.5	Pass
				-10	3.85	33.374	0.0469	-2.5 to 2.5	Pass
				0	3.85	33.674	0.0474	-2.5 to 2.5	Pass
				10	3.85	36.764	0.0517	-2.5 to 2.5	Pass
				30	3.85	39.954	0.0562	-2.5 to 2.5	Pass
				40	3.85	41.099	0.0578	-2.5 to 2.5	Pass
				50	3.85	38.252	0.0538	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

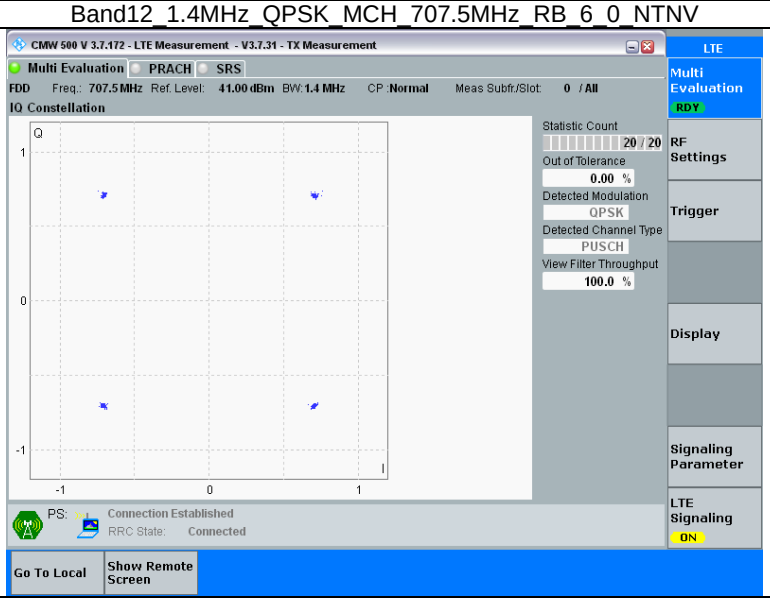
3.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

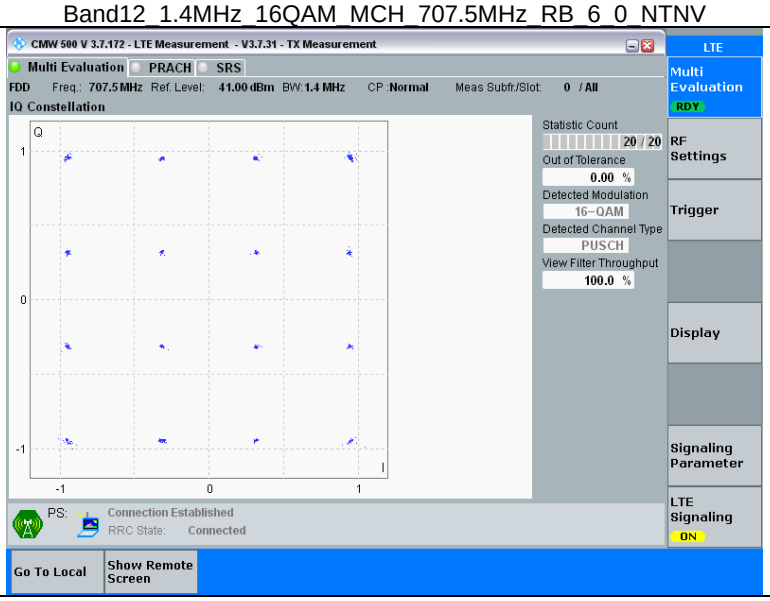
3.2 Test Graph

3.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

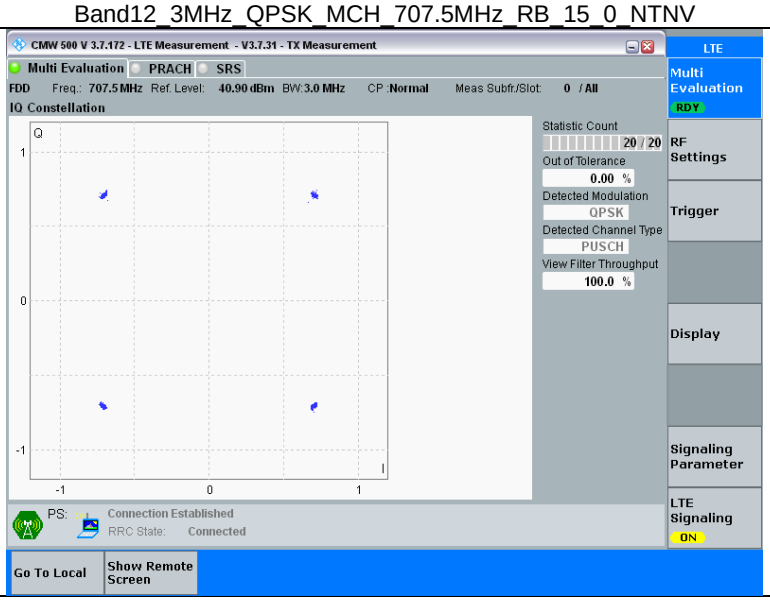


Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

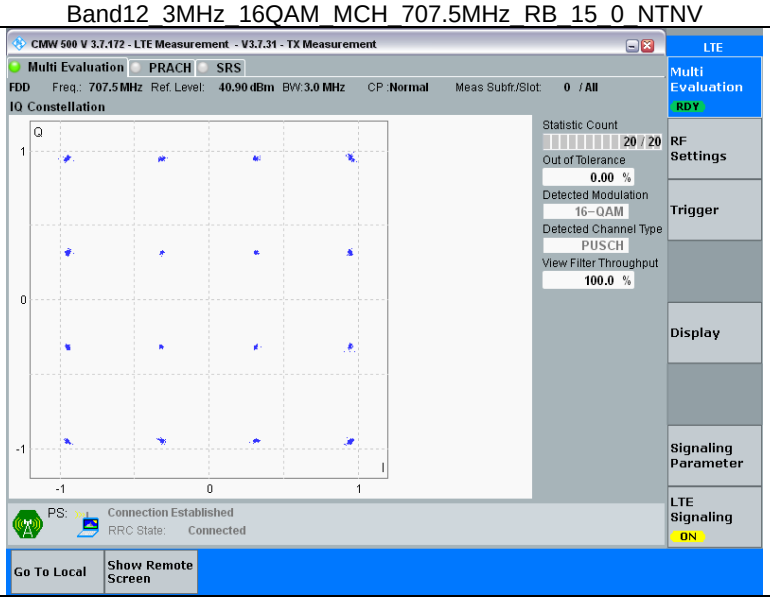


3.2.2 B12_3MHz

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

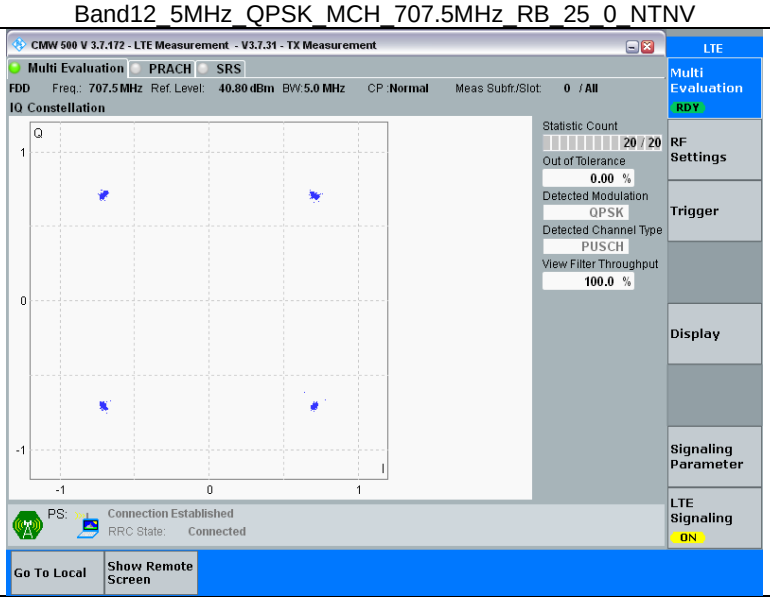


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

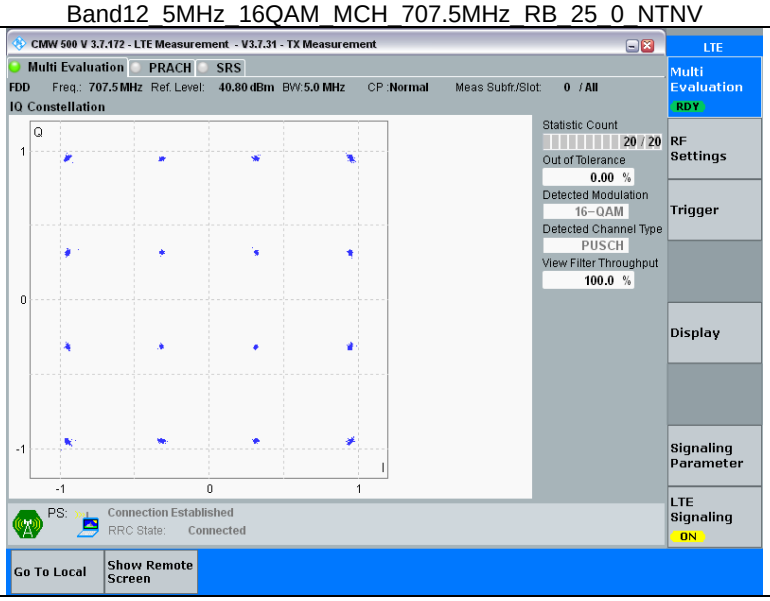


3.2.3 B12_5MHz

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

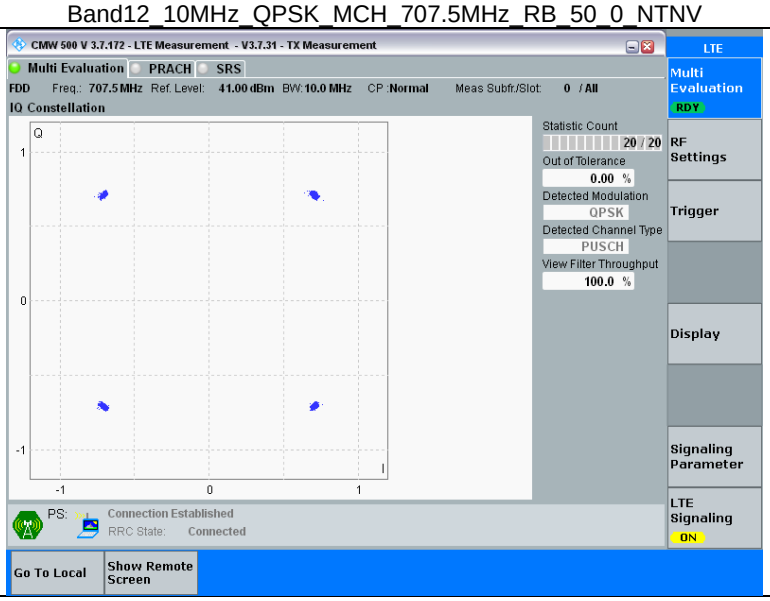


Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

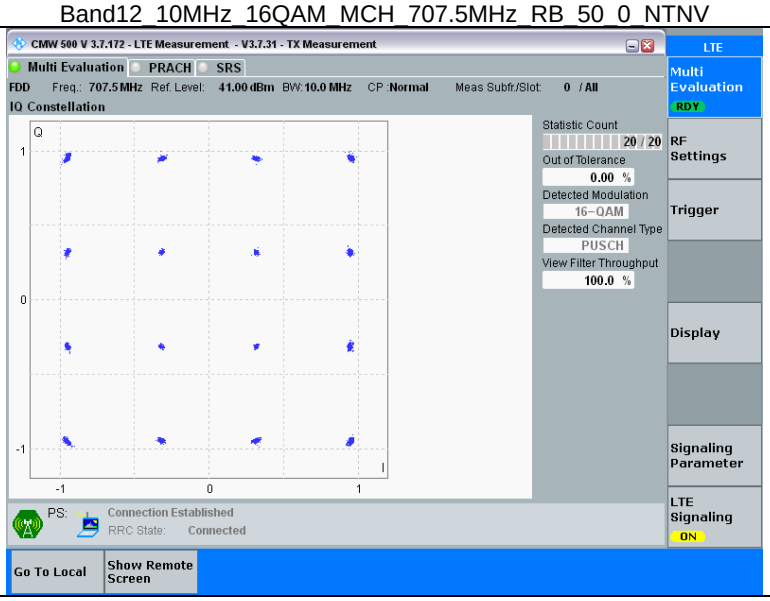


3.2.4 B12_10MHz

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.110	/	Pass
		707.5	6	0	1.118	/	Pass
		715.3	6	0	1.104	/	Pass
	16QAM	699.7	6	0	1.112	/	Pass
		707.5	6	0	1.112	/	Pass
		715.3	6	0	1.111	/	Pass
3	QPSK	700.5	15	0	2.763	/	Pass
		707.5	15	0	2.752	/	Pass
		714.5	15	0	2.768	/	Pass
	16QAM	700.5	15	0	2.755	/	Pass
		707.5	15	0	2.776	/	Pass
		714.5	15	0	2.765	/	Pass
5	QPSK	701.5	25	0	4.569	/	Pass
		707.5	25	0	4.553	/	Pass
		713.5	25	0	4.556	/	Pass
	16QAM	701.5	25	0	4.554	/	Pass
		707.5	25	0	4.569	/	Pass
		713.5	25	0	4.585	/	Pass
10	QPSK	704	50	0	9.087	/	Pass
		707.5	50	0	9.075	/	Pass
		711	50	0	9.042	/	Pass
	16QAM	704	50	0	9.082	/	Pass
		707.5	50	0	9.066	/	Pass
		711	50	0	9.058	/	Pass

4.1.2 Band12_XDB

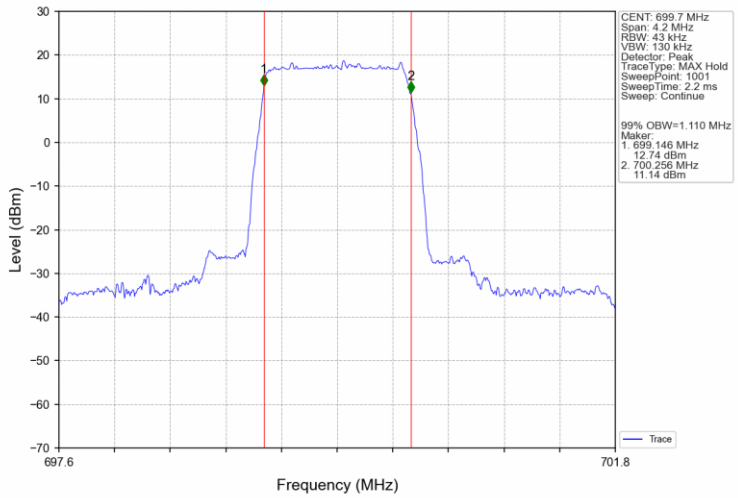
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.277	/	Pass
		707.5	6	0	1.279	/	Pass
		715.3	6	0	1.270	/	Pass
	16QAM	699.7	6	0	1.272	/	Pass
		707.5	6	0	1.271	/	Pass
		715.3	6	0	1.266	/	Pass
3	QPSK	700.5	15	0	3.090	/	Pass
		707.5	15	0	3.112	/	Pass
		714.5	15	0	3.081	/	Pass
	16QAM	700.5	15	0	3.083	/	Pass
		707.5	15	0	3.098	/	Pass
		714.5	15	0	3.118	/	Pass
5	QPSK	701.5	25	0	5.063	/	Pass
		707.5	25	0	5.047	/	Pass
		713.5	25	0	5.089	/	Pass

	16QAM	701.5	25	0	5.062	/	Pass
		707.5	25	0	5.076	/	Pass
		713.5	25	0	5.081	/	Pass
10	QPSK	704	50	0	10.108	/	Pass
		707.5	50	0	10.033	/	Pass
		711	50	0	10.091	/	Pass
	16QAM	704	50	0	10.059	/	Pass
		707.5	50	0	10.072	/	Pass
		711	50	0	10.064	/	Pass

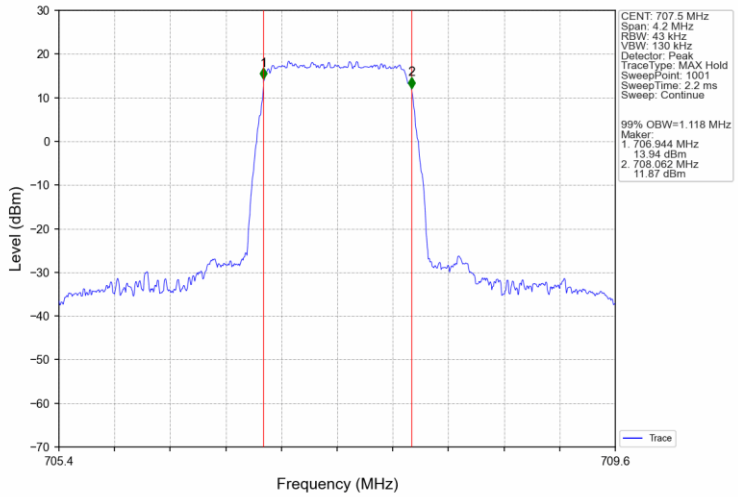
4.2 Test Graph

4.2.1 Band12_OBW

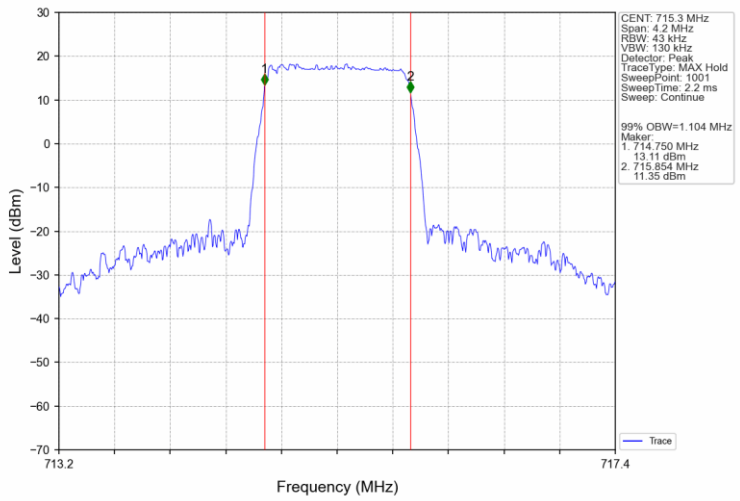
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



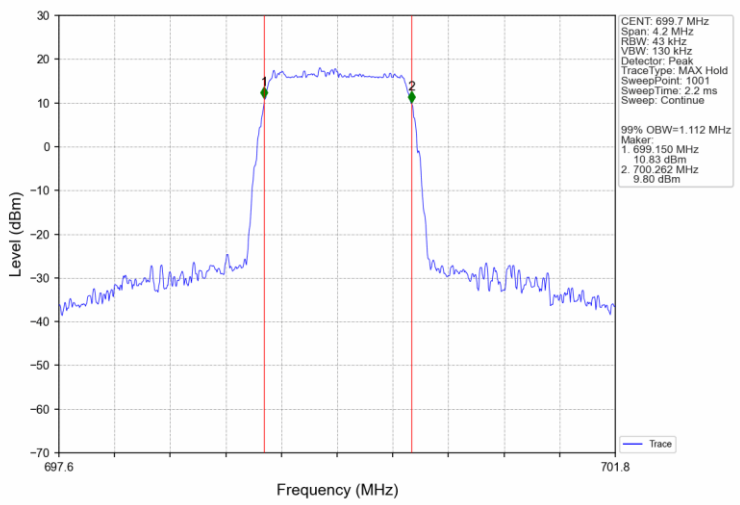
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



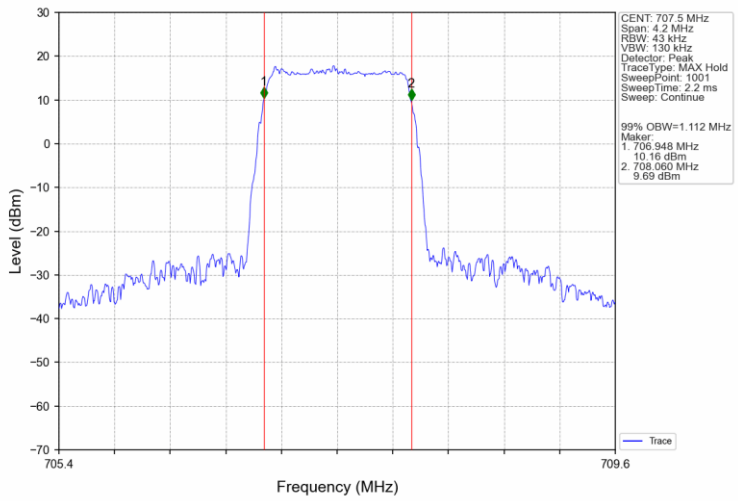
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



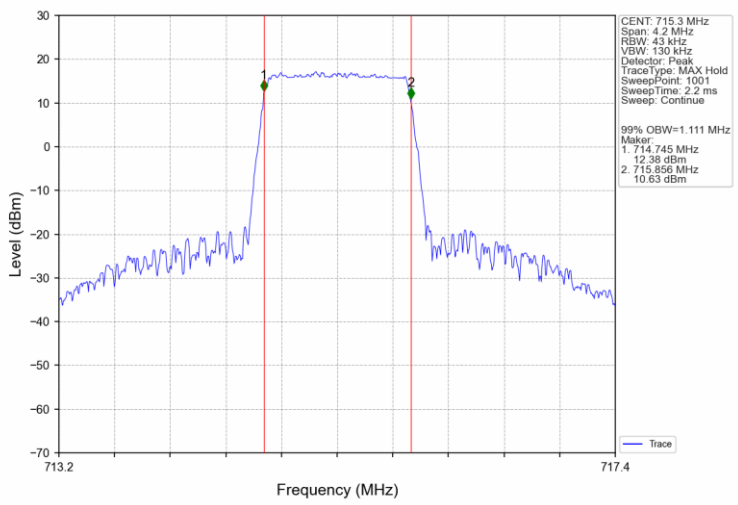
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



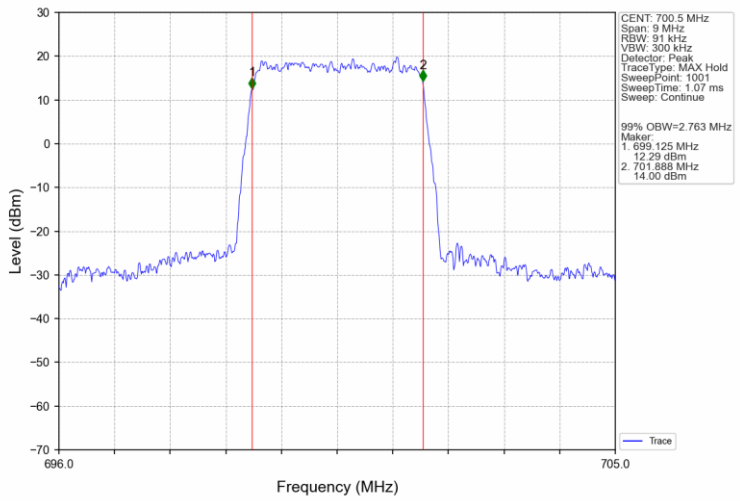
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



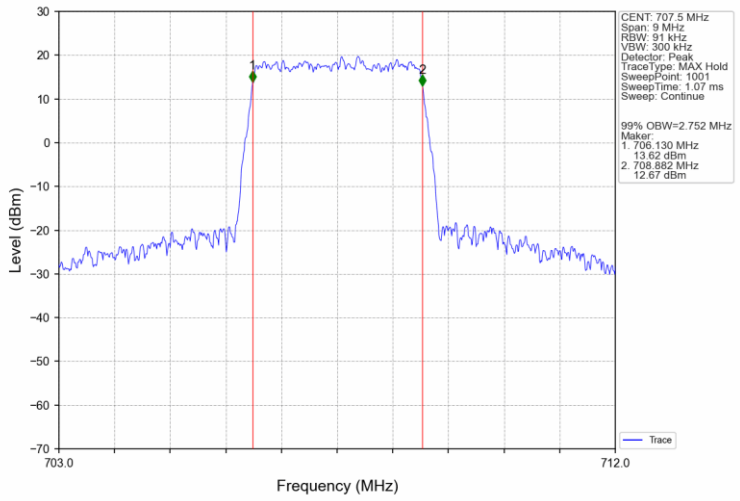
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



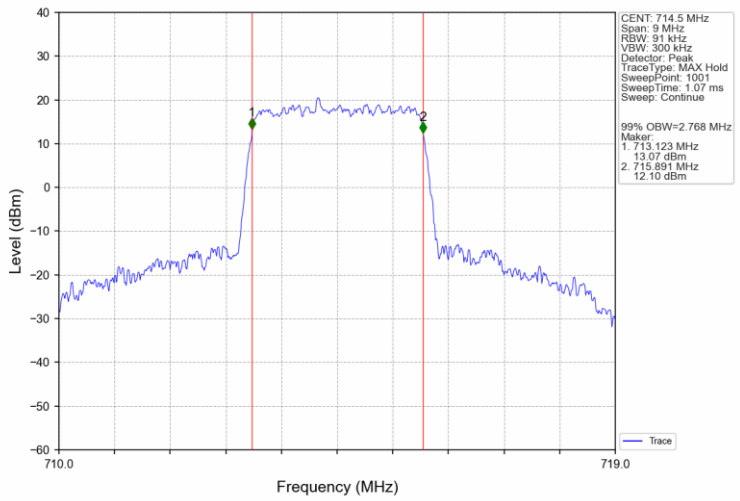
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



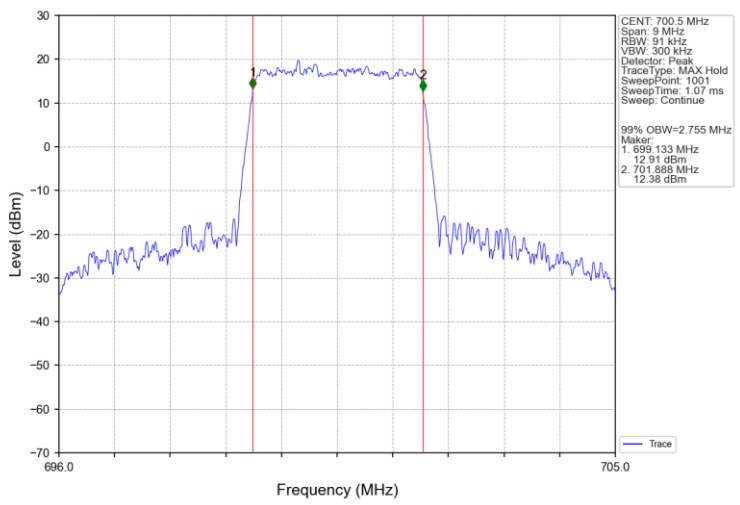
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



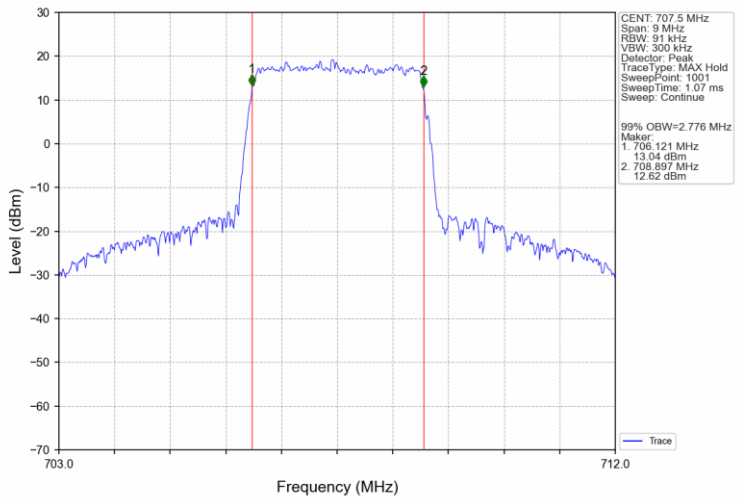
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



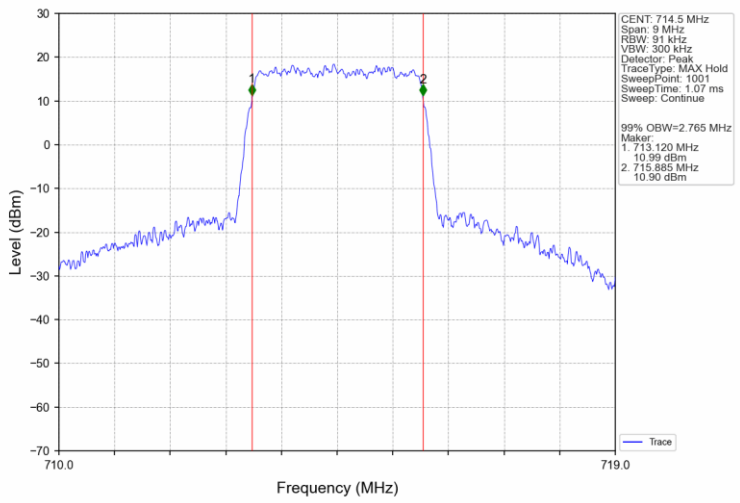
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



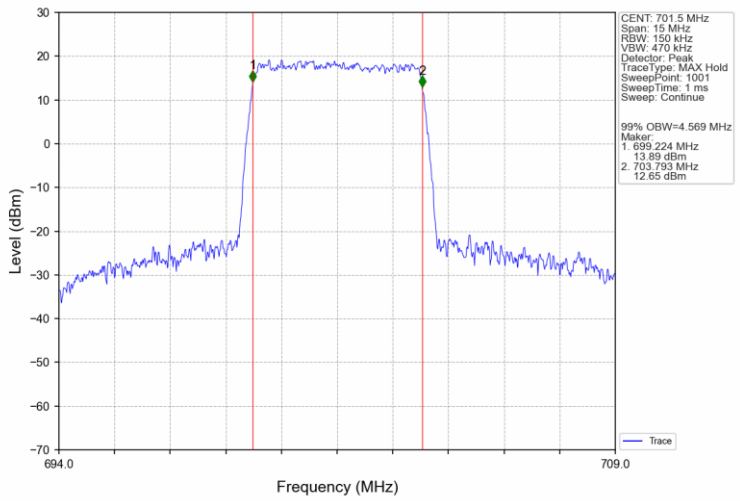
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



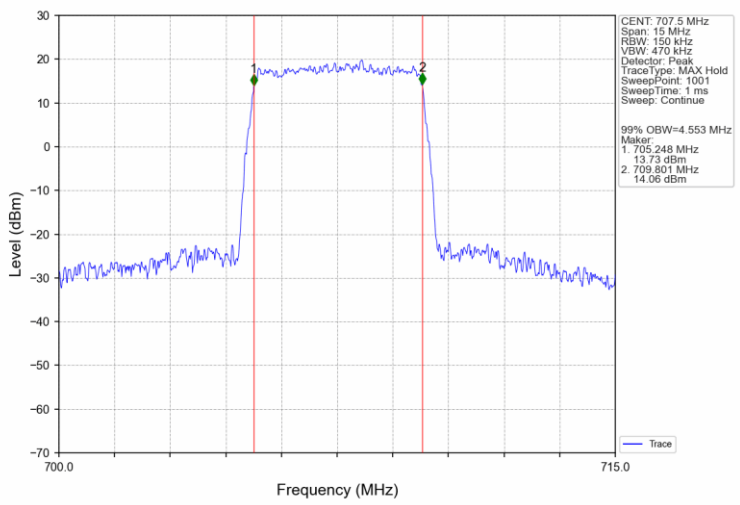
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



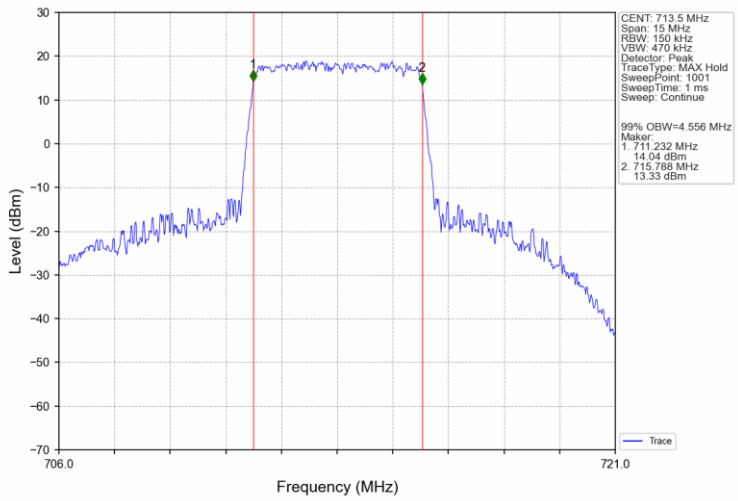
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



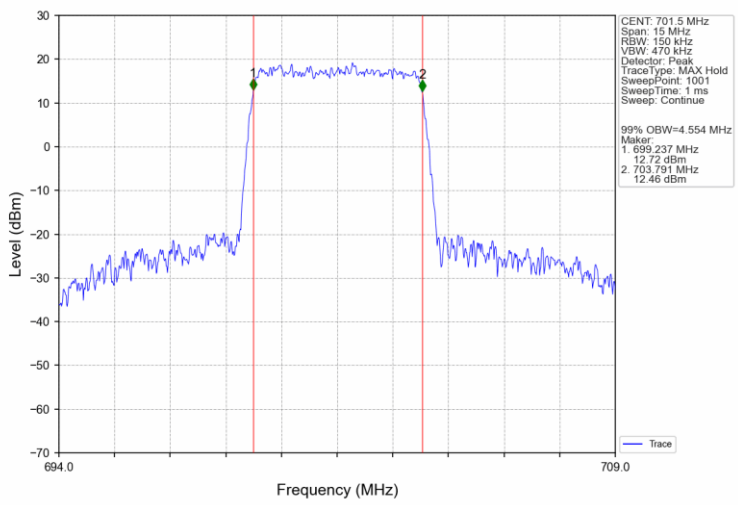
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



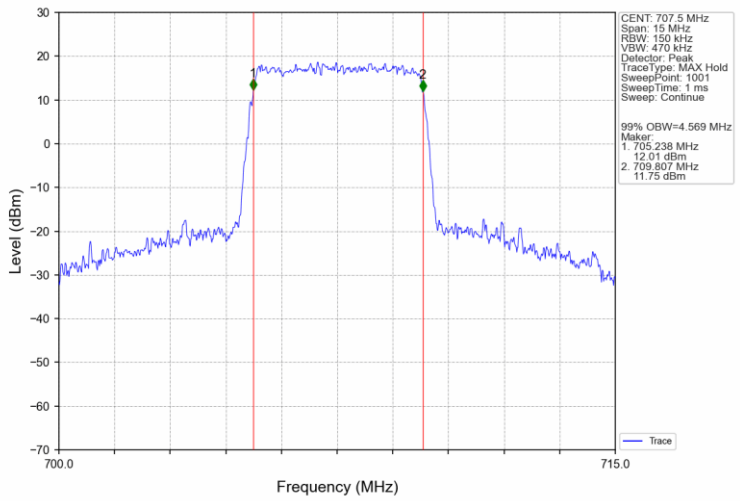
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



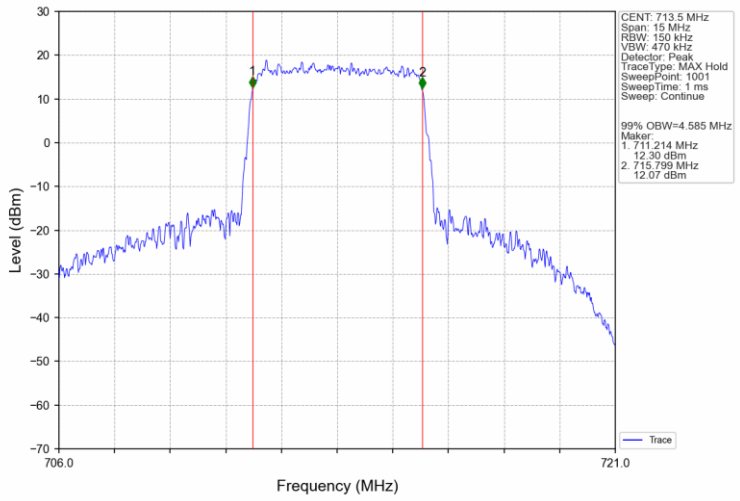
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



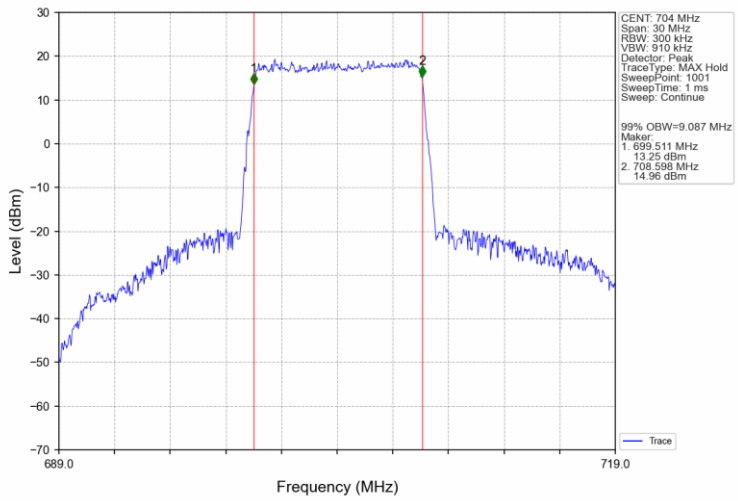
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



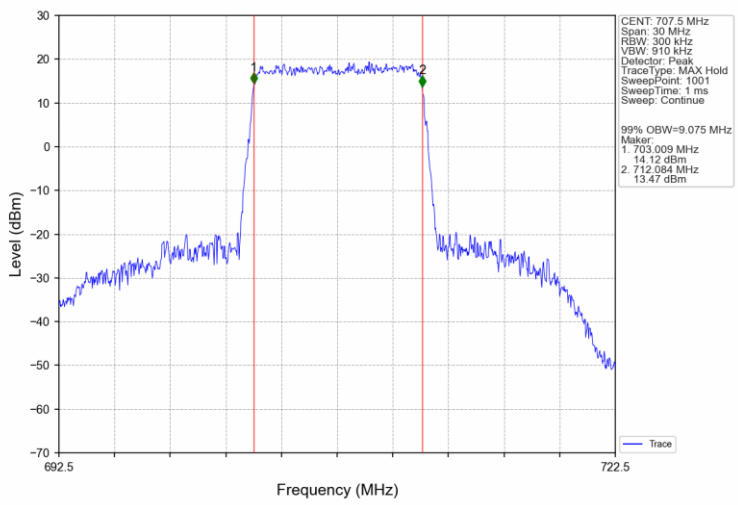
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



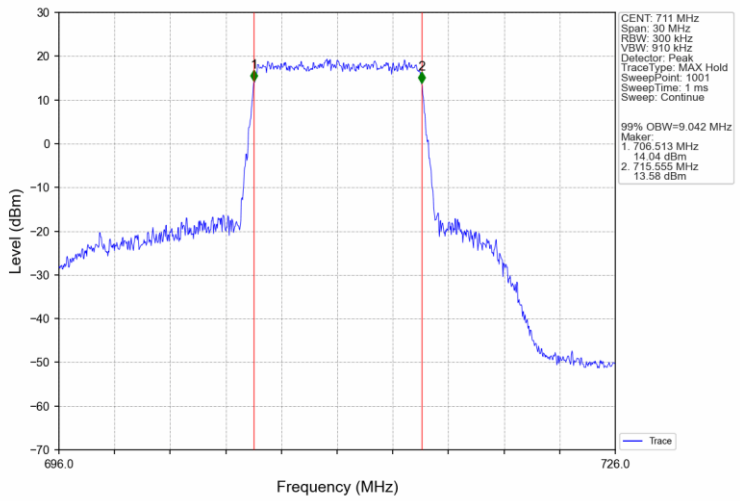
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



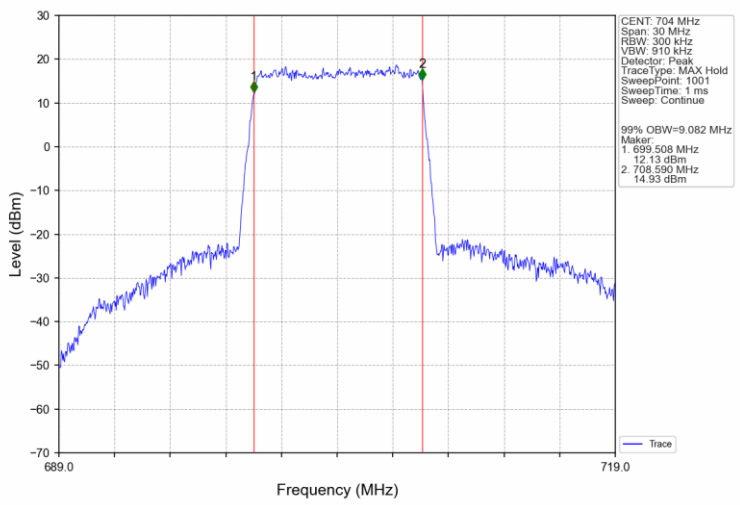
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



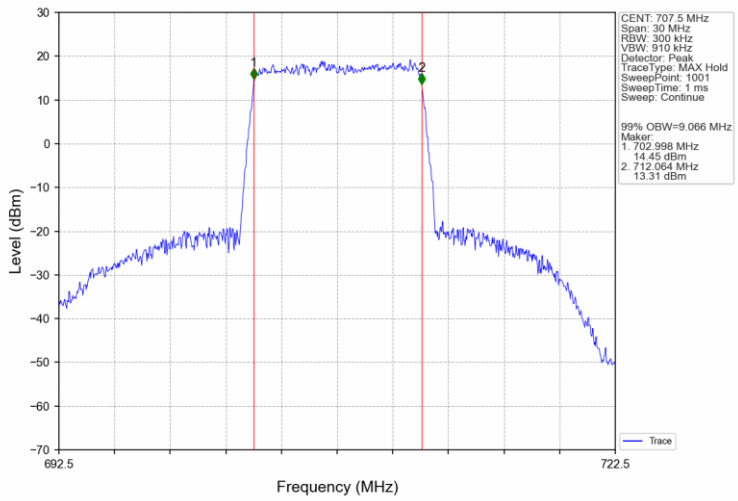
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



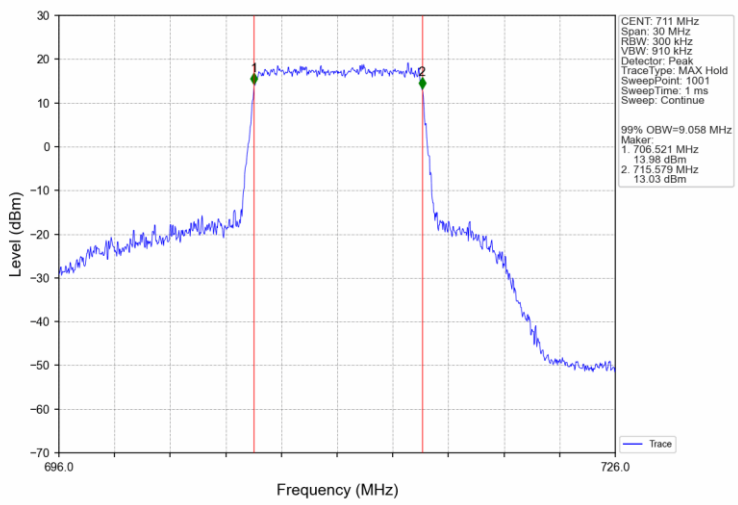
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

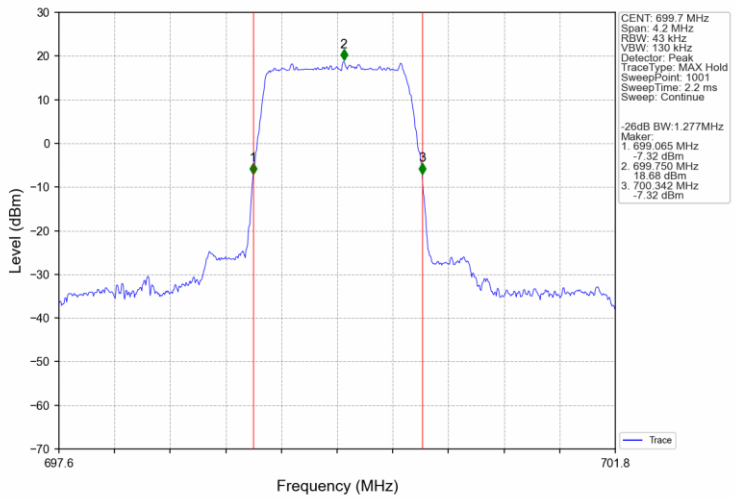


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

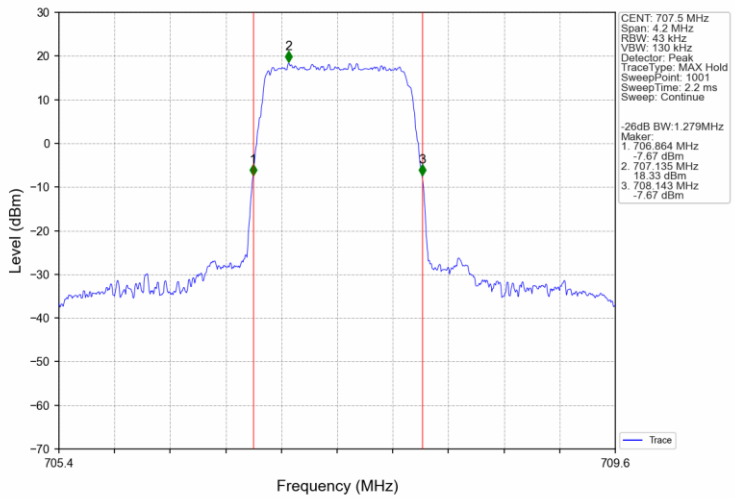


4.2.2 Band12_XDB

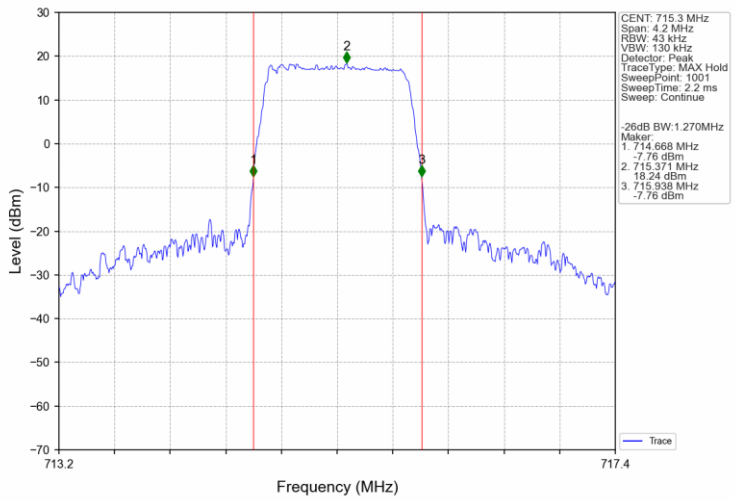
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



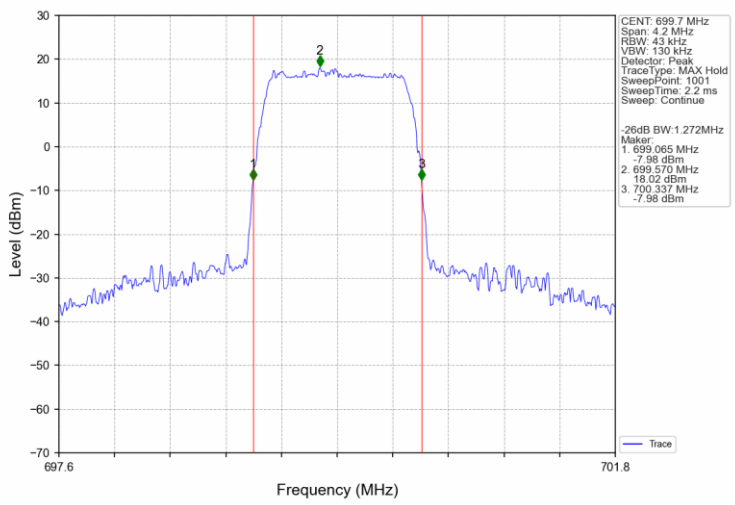
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



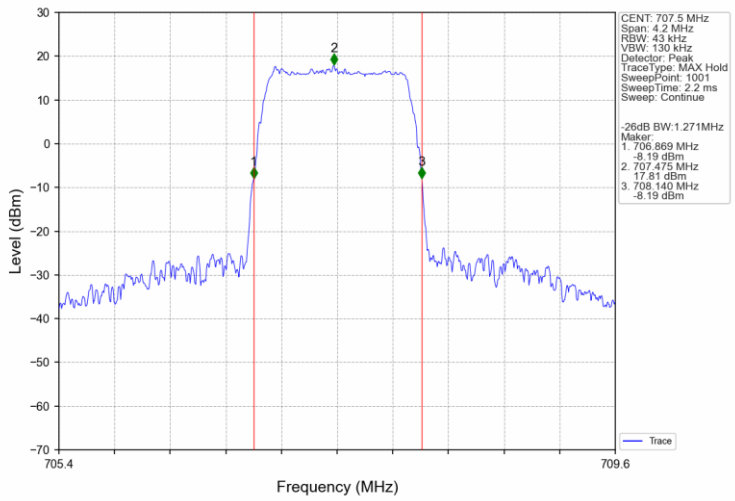
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



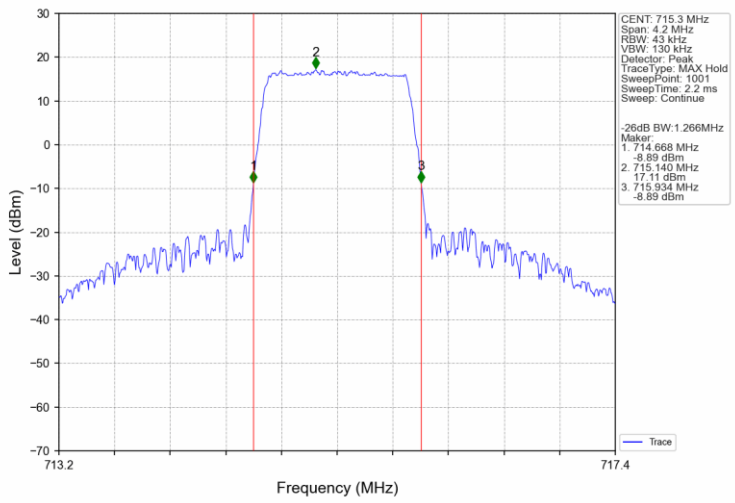
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



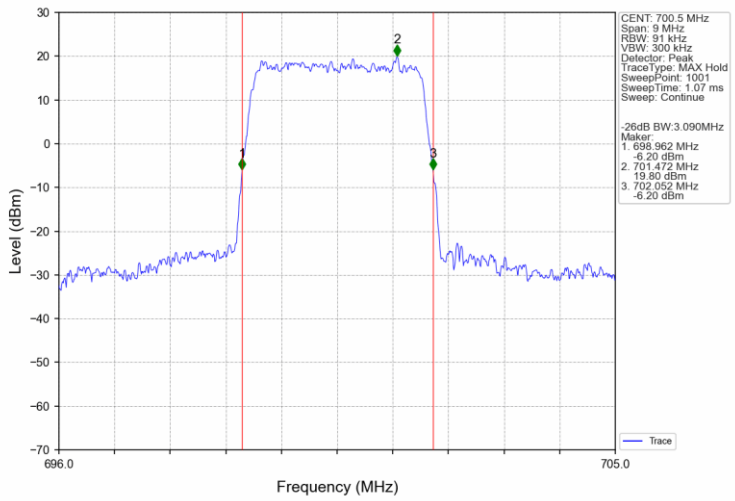
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



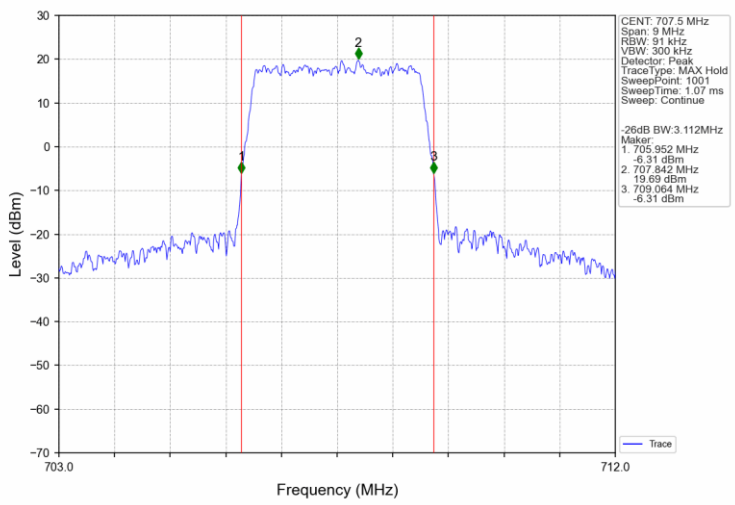
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



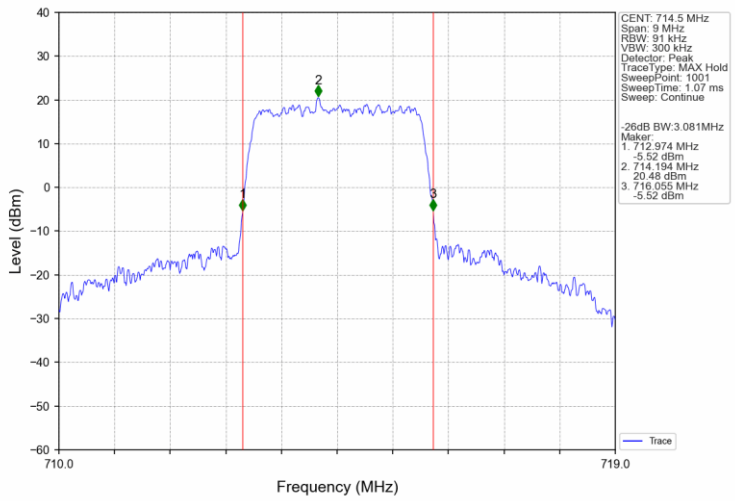
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



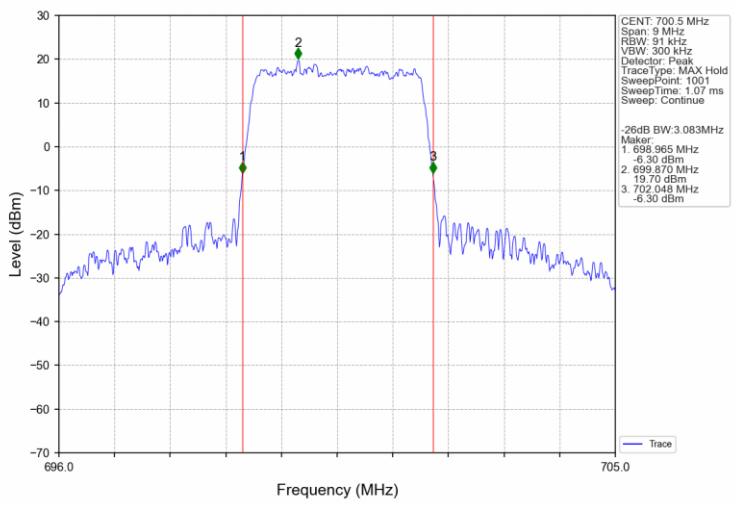
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



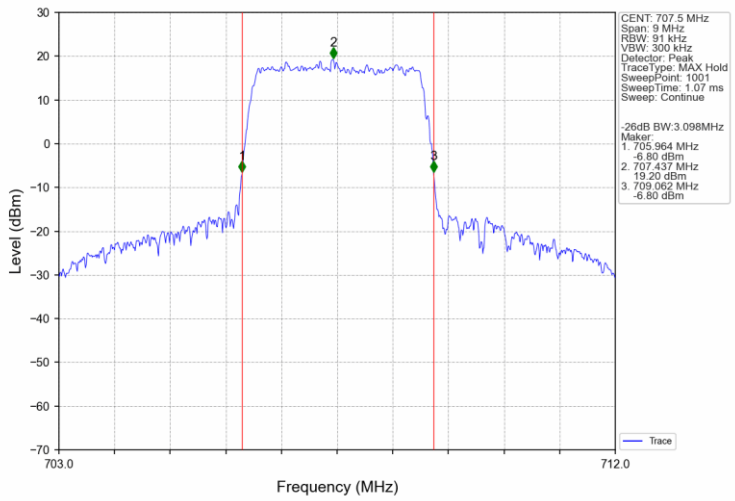
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



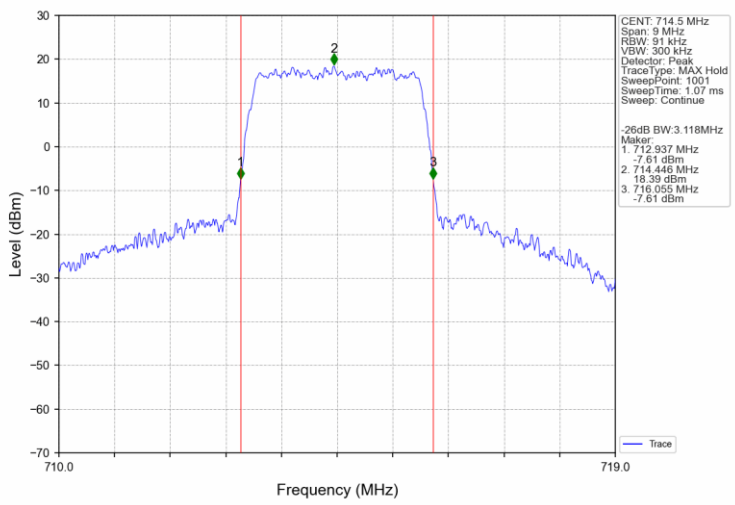
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



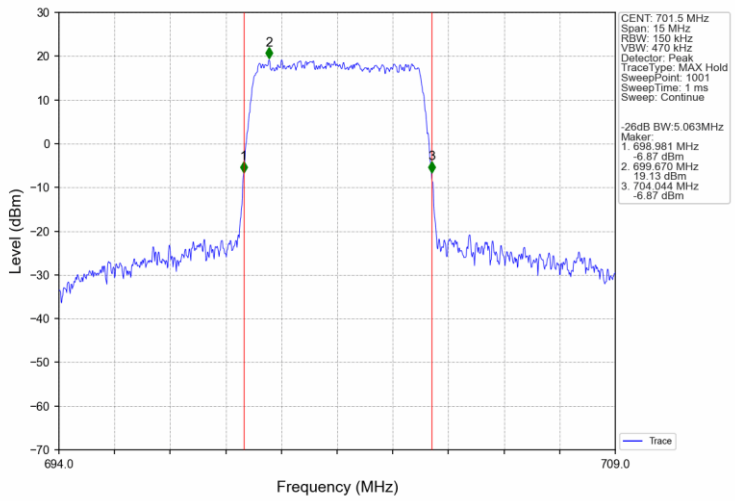
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



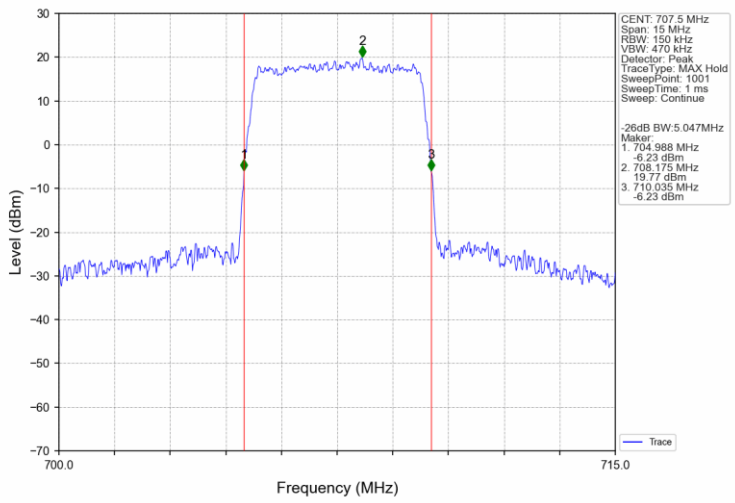
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



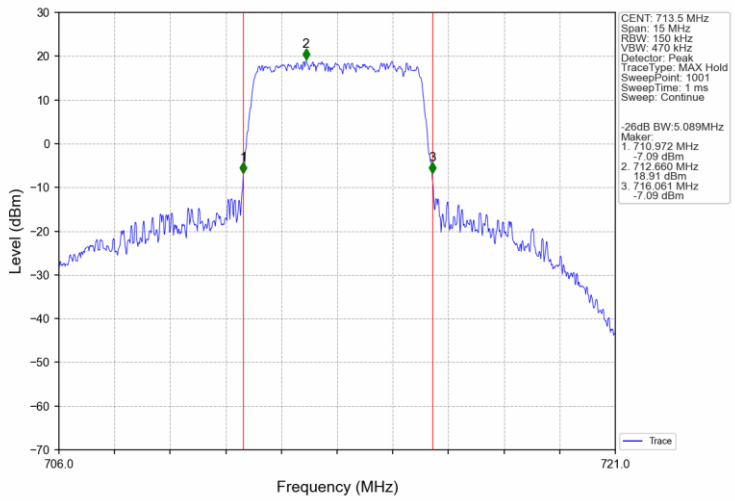
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



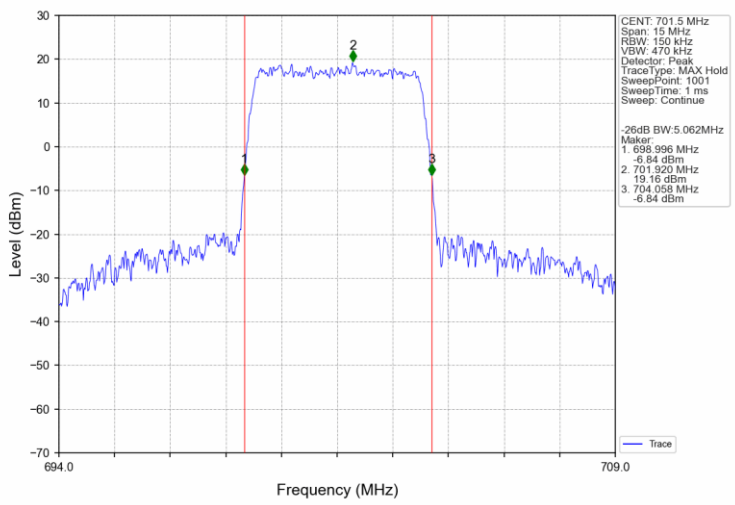
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



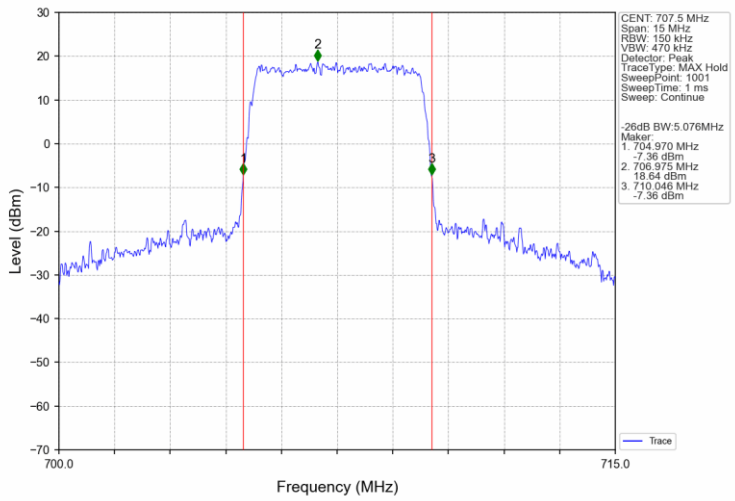
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



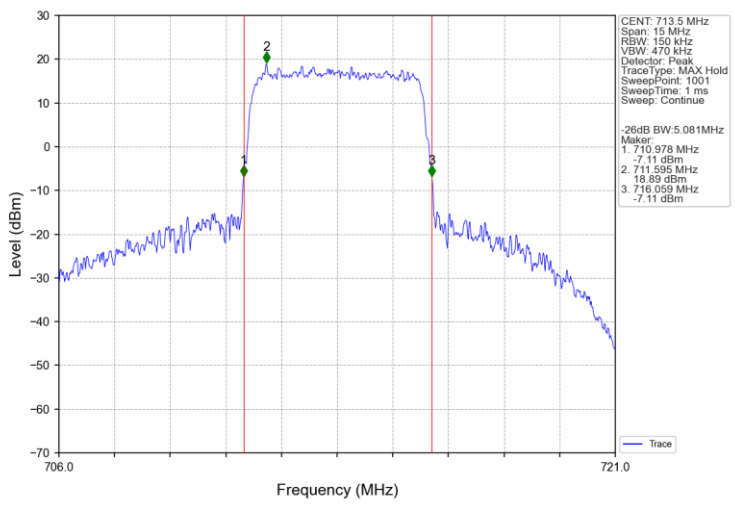
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



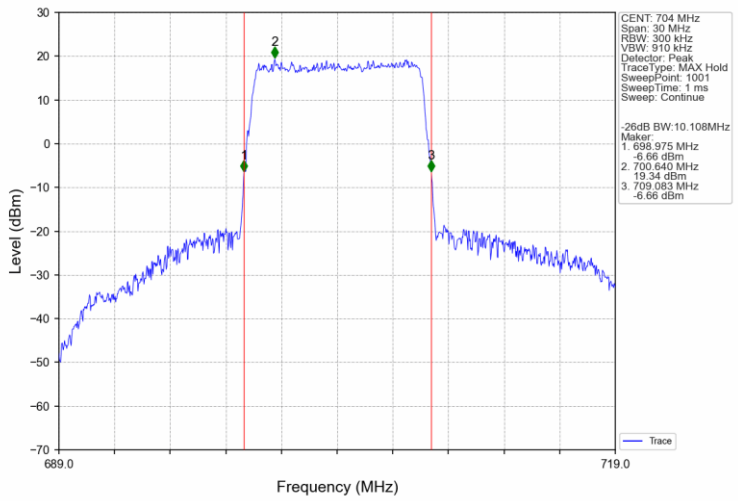
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



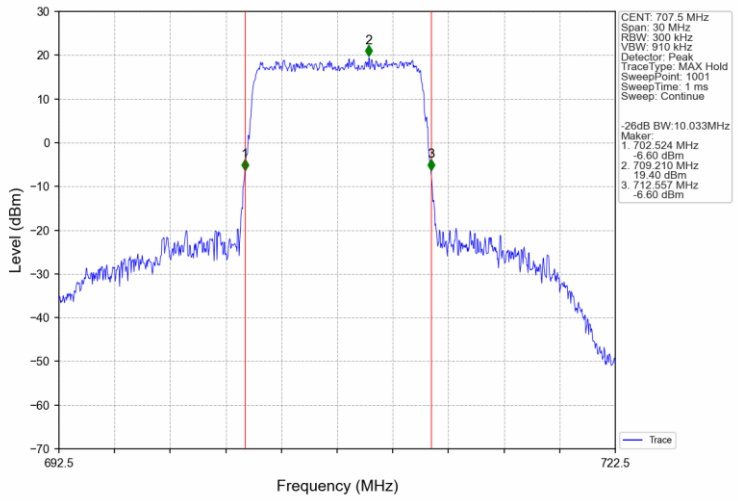
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



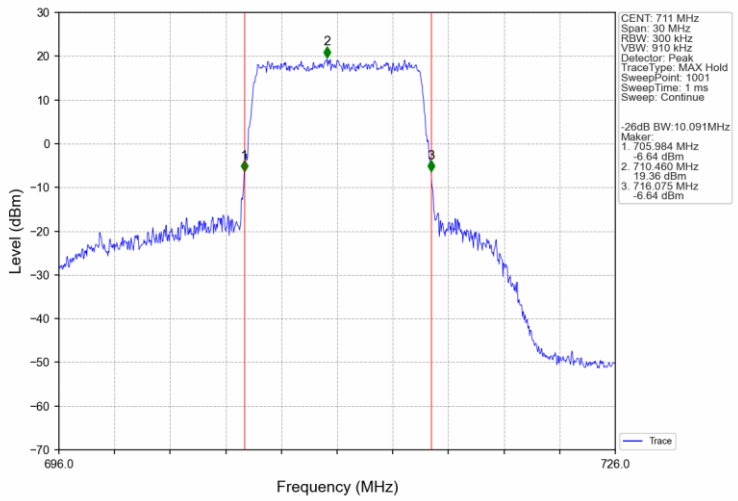
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



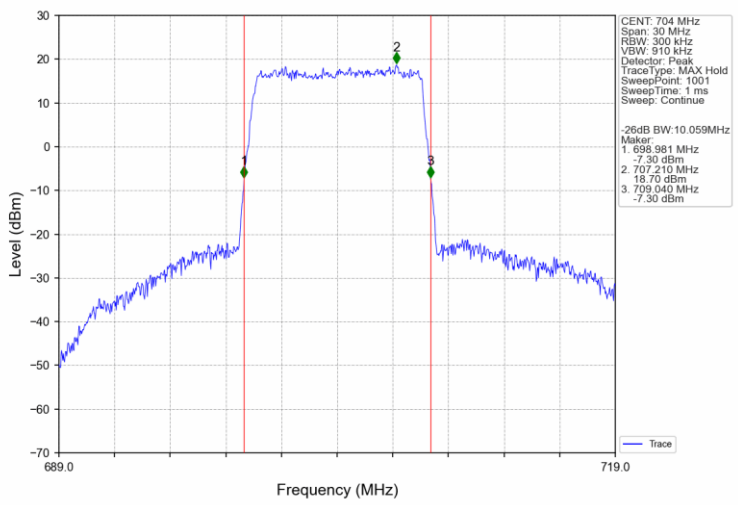
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



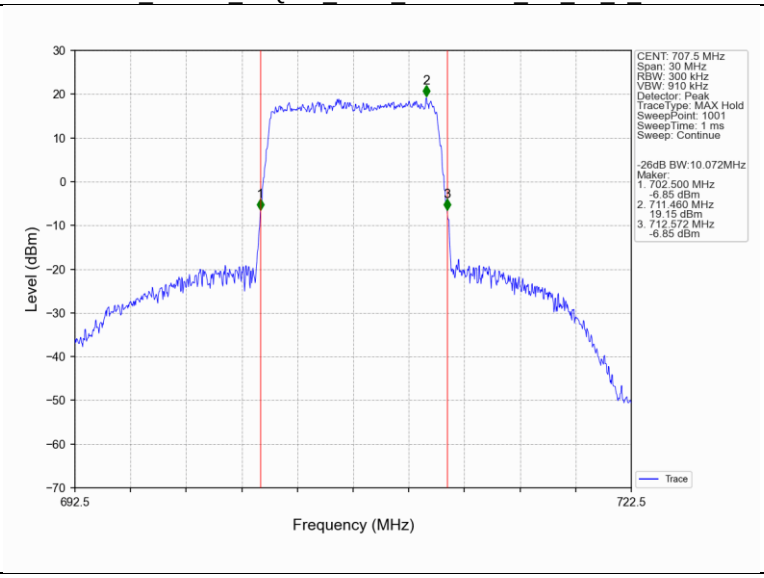
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



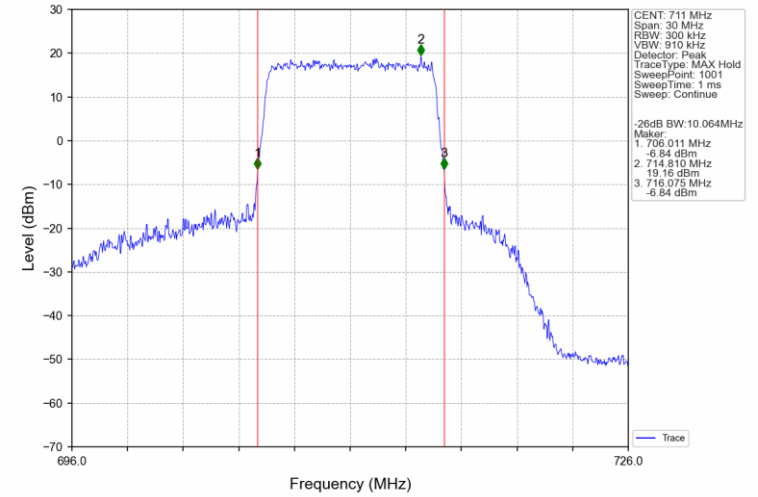
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.49	<=13	Pass
	707.5	6	0	5.36	<=13	Pass
	715.3	6	0	3.91	<=13	Pass
16QAM	699.7	6	0	6.07	<=13	Pass
	707.5	6	0	5.94	<=13	Pass
	715.3	6	0	4.89	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.45	<=13	Pass
	707.5	15	0	5.25	<=13	Pass
	714.5	15	0	4.83	<=13	Pass
16QAM	700.5	15	0	6.10	<=13	Pass
	707.5	15	0	5.89	<=13	Pass
	714.5	15	0	5.74	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.65	<=13	Pass
	707.5	25	0	5.55	<=13	Pass
	713.5	25	0	5.29	<=13	Pass
16QAM	701.5	25	0	6.34	<=13	Pass
	707.5	25	0	6.18	<=13	Pass
	713.5	25	0	6.15	<=13	Pass

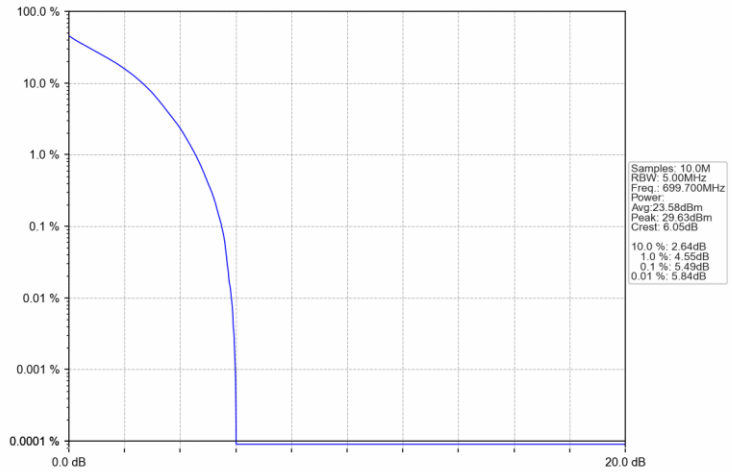
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.67	<=13	Pass
	707.5	50	0	5.56	<=13	Pass
	711	50	0	5.47	<=13	Pass
16QAM	704	50	0	6.41	<=13	Pass
	707.5	50	0	6.25	<=13	Pass
	711	50	0	6.16	<=13	Pass

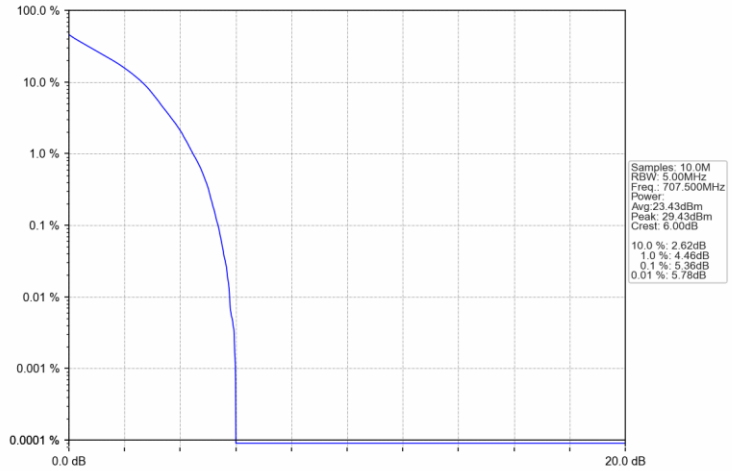
5.2 Test Graph

5.2.1 B12_1.4MHz

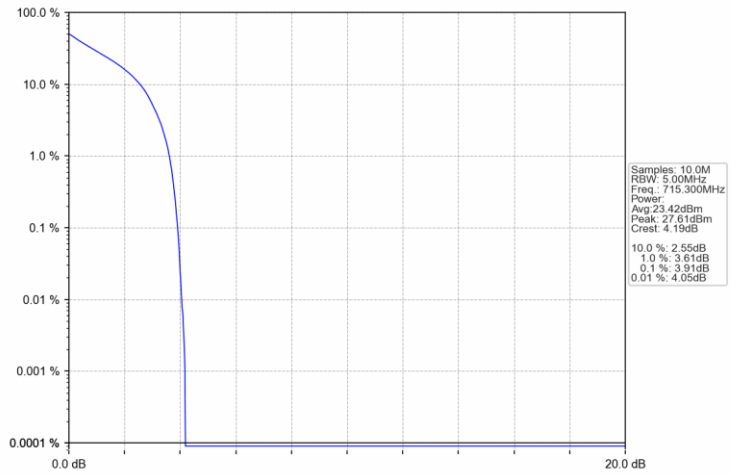
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



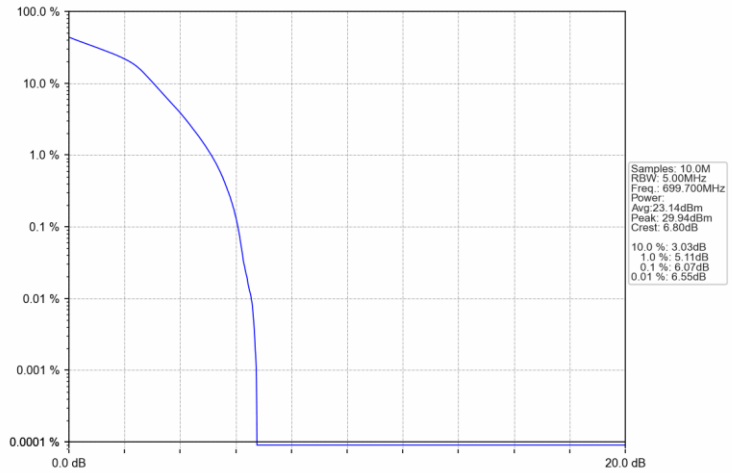
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



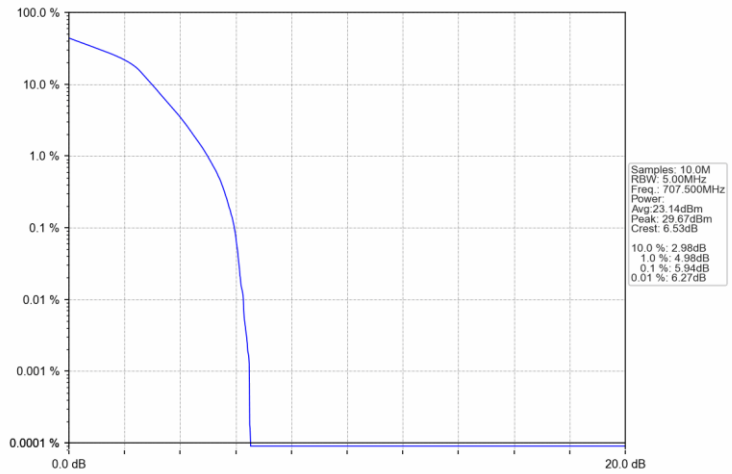
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



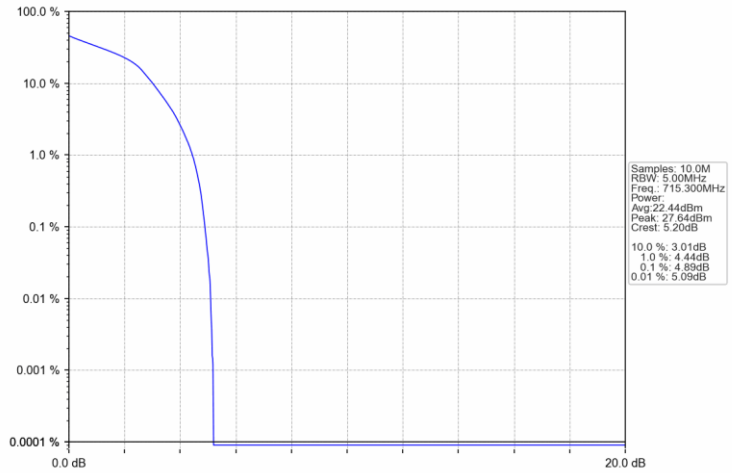
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

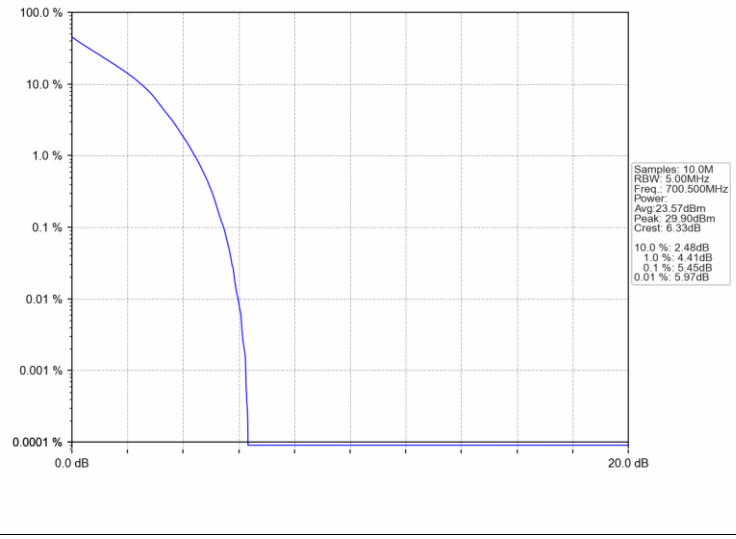
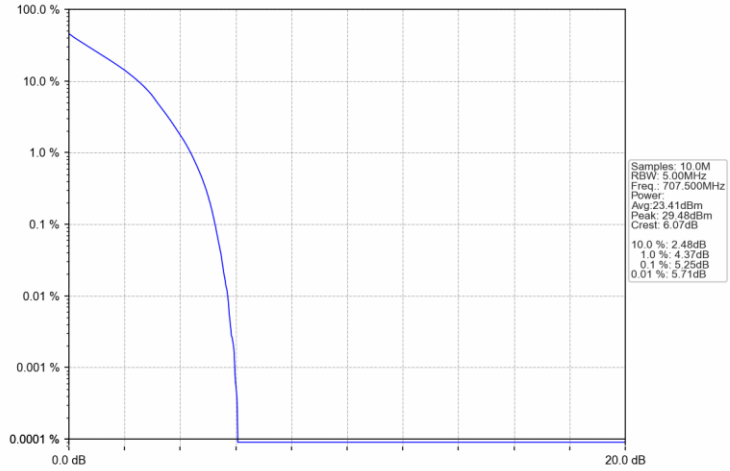


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV