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	22.85	-3.10	17.60	<=34.77	Pass
			2	23.01	-3.10	17.76	<=34.77	Pass
			5	22.83	-3.10	17.58	<=34.77	Pass
		3	0	22.97	-3.10	17.72	<=34.77	Pass
			2	22.95	-3.10	17.70	<=34.77	Pass
			3	22.97	-3.10	17.72	<=34.77	Pass
		6	0	21.88	-3.10	16.63	<=34.77	Pass
	707.5	1	0	22.82	-3.10	17.57	<=34.77	Pass
			2	23.02	-3.10	17.77	<=34.77	Pass
			5	22.78	-3.10	17.53	<=34.77	Pass
		3	0	22.92	-3.10	17.67	<=34.77	Pass
			2	22.87	-3.10	17.62	<=34.77	Pass
			3	22.90	-3.10	17.65	<=34.77	Pass
		6	0	21.84	-3.10	16.59	<=34.77	Pass
	715.3	1	0	22.72	-3.10	17.47	<=34.77	Pass
			2	22.87	-3.10	17.62	<=34.77	Pass
			5	22.68	-3.10	17.43	<=34.77	Pass
		3	0	22.87	-3.10	17.62	<=34.77	Pass
			2	22.85	-3.10	17.60	<=34.77	Pass
			3	22.81	-3.10	17.56	<=34.77	Pass
		6	0	21.74	-3.10	16.49	<=34.77	Pass
16QAM	699.7	1	0	22.22	-3.10	16.97	<=34.77	Pass
			2	22.41	-3.10	17.16	<=34.77	Pass
			5	22.13	-3.10	16.88	<=34.77	Pass
		3	0	21.99	-3.10	16.74	<=34.77	Pass
			2	21.98	-3.10	16.73	<=34.77	Pass
			3	21.98	-3.10	16.73	<=34.77	Pass
		6	0	20.88	-3.10	15.63	<=34.77	Pass
	707.5	1	0	21.73	-3.10	16.48	<=34.77	Pass
			2	21.92	-3.10	16.67	<=34.77	Pass
			5	21.72	-3.10	16.47	<=34.77	Pass
		3	0	21.77	-3.10	16.52	<=34.77	Pass
			2	21.73	-3.10	16.48	<=34.77	Pass
			3	21.79	-3.10	16.54	<=34.77	Pass
		6	0	20.86	-3.10	15.61	<=34.77	Pass
	715.3	1	0	21.73	-3.10	16.48	<=34.77	Pass
			2	21.90	-3.10	16.65	<=34.77	Pass
			5	21.77	-3.10	16.52	<=34.77	Pass
		3	0	21.94	-3.10	16.69	<=34.77	Pass
			2	21.89	-3.10	16.64	<=34.77	Pass
			3	21.93	-3.10	16.68	<=34.77	Pass
		6	0	20.84	-3.10	15.59	<=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	22.83	-3.10	17.58	<=34.77	Pass
			7	22.68	-3.10	17.43	<=34.77	Pass
			14	22.80	-3.10	17.55	<=34.77	Pass
		8	0	21.82	-3.10	16.57	<=34.77	Pass
			4	21.89	-3.10	16.64	<=34.77	Pass
			7	21.80	-3.10	16.55	<=34.77	Pass
		15	0	21.78	-3.10	16.53	<=34.77	Pass
	707.5	1	0	22.84	-3.10	17.59	<=34.77	Pass
			7	22.73	-3.10	17.48	<=34.77	Pass
			14	22.84	-3.10	17.59	<=34.77	Pass
		8	0	21.80	-3.10	16.55	<=34.77	Pass
			4	21.83	-3.10	16.58	<=34.77	Pass
			7	21.82	-3.10	16.57	<=34.77	Pass
		15	0	21.76	-3.10	16.51	<=34.77	Pass
	714.5	1	0	22.78	-3.10	17.53	<=34.77	Pass
			7	22.71	-3.10	17.46	<=34.77	Pass
			14	22.84	-3.10	17.59	<=34.77	Pass
		8	0	21.80	-3.10	16.55	<=34.77	Pass
			4	21.82	-3.10	16.57	<=34.77	Pass
			7	21.74	-3.10	16.49	<=34.77	Pass
		15	0	21.75	-3.10	16.50	<=34.77	Pass
16QAM	700.5	1	0	21.84	-3.10	16.59	<=34.77	Pass
			7	21.76	-3.10	16.51	<=34.77	Pass
			14	21.90	-3.10	16.65	<=34.77	Pass
		8	0	20.84	-3.10	15.59	<=34.77	Pass
			4	20.88	-3.10	15.63	<=34.77	Pass
			7	20.81	-3.10	15.56	<=34.77	Pass
		15	0	20.77	-3.10	15.52	<=34.77	Pass
	707.5	1	0	22.22	-3.10	16.97	<=34.77	Pass
			7	22.09	-3.10	16.84	<=34.77	Pass
			14	22.21	-3.10	16.96	<=34.77	Pass
		8	0	20.86	-3.10	15.61	<=34.77	Pass
			4	20.92	-3.10	15.67	<=34.77	Pass
			7	20.87	-3.10	15.62	<=34.77	Pass
		15	0	20.84	-3.10	15.59	<=34.77	Pass
	714.5	1	0	21.75	-3.10	16.50	<=34.77	Pass
			7	21.61	-3.10	16.36	<=34.77	Pass
			14	21.70	-3.10	16.45	<=34.77	Pass
		8	0	20.80	-3.10	15.55	<=34.77	Pass
			4	20.77	-3.10	15.52	<=34.77	Pass
			7	20.70	-3.10	15.45	<=34.77	Pass
		15	0	20.81	-3.10	15.56	<=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	22.76	-3.10	17.51	<=34.77	Pass
			13	22.89	-3.10	17.64	<=34.77	Pass
			24	22.80	-3.10	17.55	<=34.77	Pass
		12	0	21.78	-3.10	16.53	<=34.77	Pass
			6	21.88	-3.10	16.63	<=34.77	Pass
			13	21.69	-3.10	16.44	<=34.77	Pass
		25	0	21.80	-3.10	16.55	<=34.77	Pass

	707.5	1	0	22.77	-3.10	17.52	<=34.77	Pass
			13	22.83	-3.10	17.58	<=34.77	Pass
			24	22.71	-3.10	17.46	<=34.77	Pass
		12	0	21.74	-3.10	16.49	<=34.77	Pass
			6	21.84	-3.10	16.59	<=34.77	Pass
			13	21.92	-3.10	16.67	<=34.77	Pass
		25	0	21.82	-3.10	16.57	<=34.77	Pass
	713.5	1	0	22.63	-3.10	17.38	<=34.77	Pass
			13	22.78	-3.10	17.53	<=34.77	Pass
			24	22.61	-3.10	17.36	<=34.77	Pass
		12	0	21.83	-3.10	16.58	<=34.77	Pass
			6	21.82	-3.10	16.57	<=34.77	Pass
			13	21.64	-3.10	16.39	<=34.77	Pass
		25	0	21.69	-3.10	16.44	<=34.77	Pass
16QAM	701.5	1	0	21.68	-3.10	16.43	<=34.77	Pass
			13	21.86	-3.10	16.61	<=34.77	Pass
			24	21.74	-3.10	16.49	<=34.77	Pass
		12	0	20.84	-3.10	15.59	<=34.77	Pass
			6	20.97	-3.10	15.72	<=34.77	Pass
			13	20.79	-3.10	15.54	<=34.77	Pass
		25	0	20.89	-3.10	15.64	<=34.77	Pass
	707.5	1	0	22.18	-3.10	16.93	<=34.77	Pass
			13	22.21	-3.10	16.96	<=34.77	Pass
			24	22.19	-3.10	16.94	<=34.77	Pass
		12	0	20.71	-3.10	15.46	<=34.77	Pass
			6	20.82	-3.10	15.57	<=34.77	Pass
			13	20.91	-3.10	15.66	<=34.77	Pass
		25	0	20.81	-3.10	15.56	<=34.77	Pass
	713.5	1	0	21.77	-3.10	16.52	<=34.77	Pass
			13	21.94	-3.10	16.69	<=34.77	Pass
			24	21.78	-3.10	16.53	<=34.77	Pass
		12	0	20.82	-3.10	15.57	<=34.77	Pass
			6	20.82	-3.10	15.57	<=34.77	Pass
			13	20.62	-3.10	15.37	<=34.77	Pass
		25	0	20.73	-3.10	15.48	<=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	22.90	-3.10	17.65	<=34.77	Pass
			25	22.97	-3.10	17.72	<=34.77	Pass
			49	22.90	-3.10	17.65	<=34.77	Pass
		25	0	22.05	-3.10	16.80	<=34.77	Pass
			13	21.87	-3.10	16.62	<=34.77	Pass
			25	22.01	-3.10	16.76	<=34.77	Pass
		50	0	22.01	-3.10	16.76	<=34.77	Pass
	707.5	1	0	22.86	-3.10	17.61	<=34.77	Pass
			25	22.94	-3.10	17.69	<=34.77	Pass
			49	22.87	-3.10	17.62	<=34.77	Pass
		25	0	21.87	-3.10	16.62	<=34.77	Pass
			13	21.84	-3.10	16.59	<=34.77	Pass
			25	22.03	-3.10	16.78	<=34.77	Pass
		50	0	21.88	-3.10	16.63	<=34.77	Pass
	711	1	0	22.79	-3.10	17.54	<=34.77	Pass
			25	22.70	-3.10	17.45	<=34.77	Pass

			49	22.73	-3.10	17.48	<=34.77	Pass
		25	0	21.69	-3.10	16.44	<=34.77	Pass
			13	21.82	-3.10	16.57	<=34.77	Pass
			25	21.61	-3.10	16.36	<=34.77	Pass
		50	0	21.58	-3.10	16.33	<=34.77	Pass
16QAM	704	1	0	22.17	-3.10	16.92	<=34.77	Pass
			25	22.32	-3.10	17.07	<=34.77	Pass
			49	22.26	-3.10	17.01	<=34.77	Pass
		25	0	21.04	-3.10	15.79	<=34.77	Pass
			13	20.93	-3.10	15.68	<=34.77	Pass
			25	21.07	-3.10	15.82	<=34.77	Pass
		50	0	21.06	-3.10	15.81	<=34.77	Pass
	707.5	1	0	21.77	-3.10	16.52	<=34.77	Pass
			25	21.85	-3.10	16.60	<=34.77	Pass
			49	21.76	-3.10	16.51	<=34.77	Pass
		25	0	20.95	-3.10	15.70	<=34.77	Pass
			13	20.92	-3.10	15.67	<=34.77	Pass
			25	21.07	-3.10	15.82	<=34.77	Pass
		50	0	20.89	-3.10	15.64	<=34.77	Pass
	711	1	0	21.84	-3.10	16.59	<=34.77	Pass
			25	21.85	-3.10	16.60	<=34.77	Pass
			49	21.76	-3.10	16.51	<=34.77	Pass
		25	0	20.72	-3.10	15.47	<=34.77	Pass
			13	20.86	-3.10	15.61	<=34.77	Pass
			25	20.70	-3.10	15.45	<=34.77	Pass
		50	0	20.58	-3.10	15.33	<=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	-8.039	-0.0115	-2.5 to 2.5	Pass
					3.85	-6.466	-0.0092	-2.5 to 2.5	Pass
					4.43	-4.692	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-6.795	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-4.535	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-7.582	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-6.852	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-7.124	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-7.968	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-8.640	-0.0123	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-10.157	-0.0144	-2.5 to 2.5	Pass
					3.85	-5.736	-0.0081	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-8.268	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-5.736	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-10.328	-0.0146	-2.5 to 2.5	Pass
				10	3.85	-7.467	-0.0106	-2.5 to 2.5	Pass

				30	3.85	-6.981	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-9.212	-0.0130	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-8.740	-0.0122	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0079	-2.5 to 2.5	Pass
					4.43	-6.566	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-6.409	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-7.825	-0.0109	-2.5 to 2.5	Pass
				-10	3.85	-5.879	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-6.866	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-8.183	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-7.796	-0.0109	-2.5 to 2.5	Pass
				50	3.85	-8.297	-0.0116	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-6.294	-0.0090	-2.5 to 2.5	Pass
					3.85	-6.366	-0.0091	-2.5 to 2.5	Pass
					4.43	-4.377	-0.0063	-2.5 to 2.5	Pass
				-30	3.85	-7.224	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-10.815	-0.0155	-2.5 to 2.5	Pass
				-10	3.85	-9.756	-0.0139	-2.5 to 2.5	Pass
				0	3.85	-10.328	-0.0148	-2.5 to 2.5	Pass
				10	3.85	-7.253	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-6.952	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-2.918	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-10.672	-0.0153	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.394	-0.0090	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0134	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0079	-2.5 to 2.5	Pass
				-30	3.85	-6.280	-0.0089	-2.5 to 2.5	Pass
				-20	3.85	-9.470	-0.0134	-2.5 to 2.5	Pass
				-10	3.85	-9.155	-0.0129	-2.5 to 2.5	Pass
				0	3.85	-6.480	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-7.367	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-7.396	-0.0105	-2.5 to 2.5	Pass
				50	3.85	-6.251	-0.0088	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-5.379	-0.0075	-2.5 to 2.5	Pass
					3.85	-8.111	-0.0113	-2.5 to 2.5	Pass
					4.43	-5.579	-0.0078	-2.5 to 2.5	Pass
				-30	3.85	-10.242	-0.0143	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-8.383	-0.0117	-2.5 to 2.5	Pass
				0	3.85	-5.350	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-5.236	-0.0073	-2.5 to 2.5	Pass
				30	3.85	-8.898	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-9.727	-0.0136	-2.5 to 2.5	Pass
				50	3.85	-2.446	-0.0034	-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	-8.826	-0.0126	-2.5 to 2.5	Pass
					3.85	-5.193	-0.0074	-2.5 to 2.5	Pass
					4.43	-9.170	-0.0131	-2.5 to 2.5	Pass
				-30	3.85	-9.799	-0.0140	-2.5 to 2.5	Pass
				-20	3.85	-6.852	-0.0098	-2.5 to 2.5	Pass

				-10	3.85	-6.709	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-8.082	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-6.080	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-5.479	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-5.293	-0.0076	-2.5 to 2.5	Pass
				50	3.85	-8.898	-0.0127	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-4.020	-0.0057	-2.5 to 2.5	Pass
					3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
					4.43	-7.896	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-7.639	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-8.855	-0.0125	-2.5 to 2.5	Pass
				-10	3.85	-8.469	-0.0120	-2.5 to 2.5	Pass
				0	3.85	-3.848	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-7.625	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-8.025	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-8.326	-0.0118	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.901	-0.0013	-2.5 to 2.5	Pass
					3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
					4.43	-6.995	-0.0098	-2.5 to 2.5	Pass
				-30	3.85	-9.484	-0.0133	-2.5 to 2.5	Pass
				-20	3.85	-5.178	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-8.898	-0.0125	-2.5 to 2.5	Pass
				0	3.85	-6.065	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-4.992	-0.0070	-2.5 to 2.5	Pass
				30	3.85	-8.683	-0.0122	-2.5 to 2.5	Pass
				40	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-7.153	-0.0100	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-8.769	-0.0125	-2.5 to 2.5	Pass
					3.85	-5.121	-0.0073	-2.5 to 2.5	Pass
					4.43	-5.121	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-7.768	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-7.968	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-8.883	-0.0127	-2.5 to 2.5	Pass
				0	3.85	-8.125	-0.0116	-2.5 to 2.5	Pass
				10	3.85	-5.822	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-9.971	-0.0142	-2.5 to 2.5	Pass
				40	3.85	-8.655	-0.0124	-2.5 to 2.5	Pass
				50	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-2.618	-0.0037	-2.5 to 2.5	Pass
					3.85	-10.386	-0.0147	-2.5 to 2.5	Pass
					4.43	-7.653	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-12.088	-0.0171	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-8.039	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
				30	3.85	-10.972	-0.0155	-2.5 to 2.5	Pass
				40	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-7.367	-0.0104	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-7.954	-0.0111	-2.5 to 2.5	Pass
					3.85	-4.706	-0.0066	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-2.789	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-10.071	-0.0141	-2.5 to 2.5	Pass
				30	3.85	-7.639	-0.0107	-2.5 to 2.5	Pass

				40	3.85	-9.971	-0.0140	-2.5 to 2.5	Pass
				50	3.85	-9.627	-0.0135	-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	-8.411	-0.0120	-2.5 to 2.5	Pass
					3.85	-10.443	-0.0149	-2.5 to 2.5	Pass
					4.43	-9.928	-0.0142	-2.5 to 2.5	Pass
				-30	3.85	-7.725	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-6.409	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-9.098	-0.0130	-2.5 to 2.5	Pass
				0	3.85	-10.443	-0.0149	-2.5 to 2.5	Pass
				10	3.85	-8.755	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-9.212	-0.0131	-2.5 to 2.5	Pass
				40	3.85	-4.292	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-8.540	-0.0122	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-8.254	-0.0117	-2.5 to 2.5	Pass
					3.85	-13.518	-0.0191	-2.5 to 2.5	Pass
					4.43	-6.580	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-4.935	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-11.344	-0.0160	-2.5 to 2.5	Pass
				-10	3.85	-10.443	-0.0148	-2.5 to 2.5	Pass
				0	3.85	-9.599	-0.0136	-2.5 to 2.5	Pass
				10	3.85	-5.822	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-7.725	-0.0109	-2.5 to 2.5	Pass
				50	3.85	-5.050	-0.0071	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-11.673	-0.0164	-2.5 to 2.5	Pass
					3.85	-9.012	-0.0126	-2.5 to 2.5	Pass
					4.43	-4.921	-0.0069	-2.5 to 2.5	Pass
				-30	3.85	-7.925	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-12.560	-0.0176	-2.5 to 2.5	Pass
				-10	3.85	-4.878	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-5.951	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-7.439	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-8.569	-0.0120	-2.5 to 2.5	Pass
				40	3.85	-8.097	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-8.297	-0.0116	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-8.397	-0.0120	-2.5 to 2.5	Pass
					3.85	-12.717	-0.0181	-2.5 to 2.5	Pass
					4.43	-3.834	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-7.939	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-7.839	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-8.540	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-7.954	-0.0113	-2.5 to 2.5	Pass
				10	3.85	-8.340	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-8.812	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-8.583	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-11.172	-0.0159	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-7.410	-0.0105	-2.5 to 2.5	Pass
					3.85	-7.210	-0.0102	-2.5 to 2.5	Pass
					4.43	-7.439	-0.0105	-2.5 to 2.5	Pass
				-30	3.85	-6.652	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass

				0	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-8.183	-0.0116	-2.5 to 2.5	Pass
				40	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.649	-0.0065	-2.5 to 2.5	Pass
					3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
					4.43	-2.975	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-7.010	-0.0098	-2.5 to 2.5	Pass
				0	3.85	-5.336	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-4.220	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-3.219	-0.0045	-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	-8.197	-0.0116	-2.5 to 2.5	Pass
					3.85	-10.099	-0.0143	-2.5 to 2.5	Pass
					4.43	-4.134	-0.0059	-2.5 to 2.5	Pass
				-30	3.85	-7.668	-0.0109	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0101	-2.5 to 2.5	Pass
				-10	3.85	-8.526	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-7.539	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-5.264	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-5.150	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-8.955	-0.0127	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-8.039	-0.0114	-2.5 to 2.5	Pass
					3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
					4.43	-6.037	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-7.539	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0101	-2.5 to 2.5	Pass
				-10	3.85	-9.770	-0.0138	-2.5 to 2.5	Pass
				0	3.85	-6.580	-0.0093	-2.5 to 2.5	Pass
				10	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-5.221	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-6.466	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.351	-0.0089	-2.5 to 2.5	Pass
					3.85	-5.422	-0.0076	-2.5 to 2.5	Pass
					4.43	-6.595	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-2.317	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-2.089	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-6.051	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-2.732	-0.0038	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-6.065	-0.0086	-2.5 to 2.5	Pass
					3.85	-9.170	-0.0130	-2.5 to 2.5	Pass
					4.43	-8.569	-0.0122	-2.5 to 2.5	Pass

				-30	3.85	-7.796	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-8.326	-0.0118	-2.5 to 2.5	Pass
				10	3.85	-8.540	-0.0121	-2.5 to 2.5	Pass
				30	3.85	-7.138	-0.0101	-2.5 to 2.5	Pass
				40	3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-9.785	-0.0138	-2.5 to 2.5	Pass
					3.85	-8.326	-0.0118	-2.5 to 2.5	Pass
					4.43	-9.027	-0.0128	-2.5 to 2.5	Pass
				-30	3.85	-8.068	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-5.364	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-2.332	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-8.883	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-6.609	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-6.051	-0.0086	-2.5 to 2.5	Pass
				50	3.85	-4.463	-0.0063	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-1.616	-0.0023	-2.5 to 2.5	Pass
					3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
					4.43	-7.811	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-5.636	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-9.327	-0.0131	-2.5 to 2.5	Pass
				10	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
				30	3.85	-3.204	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-8.969	-0.0126	-2.5 to 2.5	Pass
				50	3.85	-7.768	-0.0109	-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

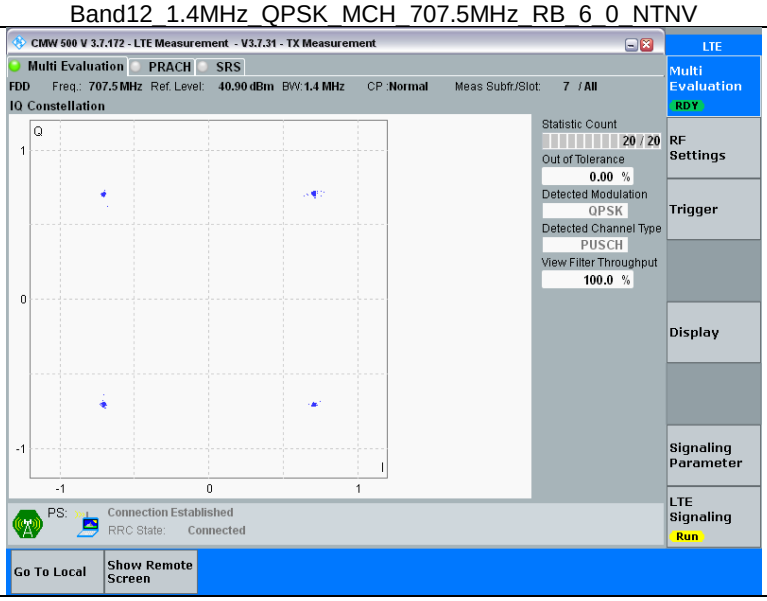
3.1.4 B12_10MHz

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

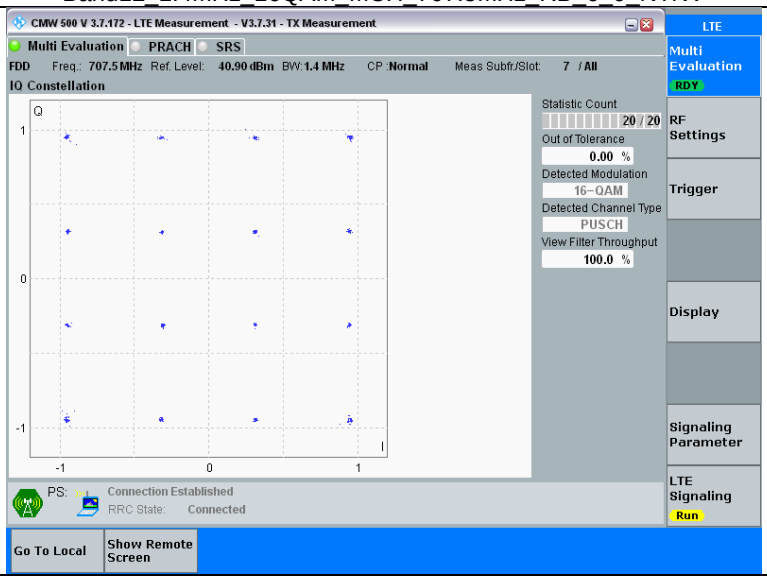
3.2 Test Graph

3.2.1 B12_1.4MHz

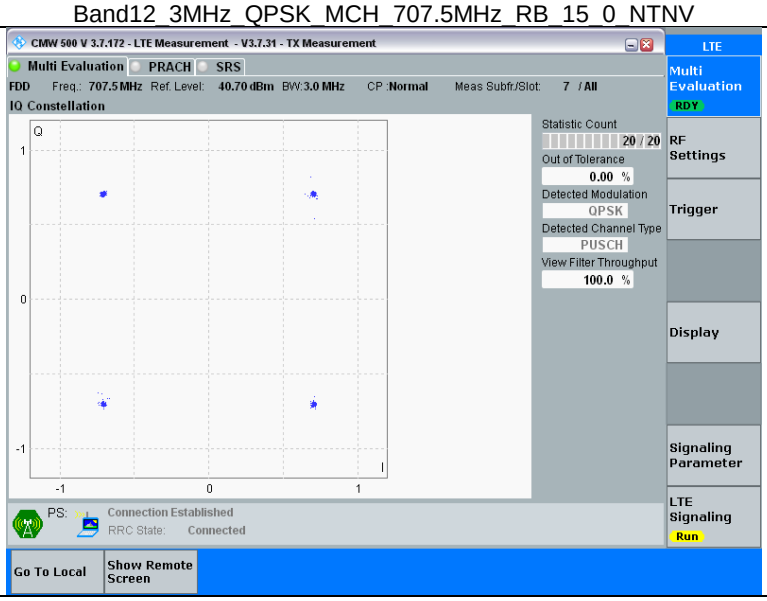
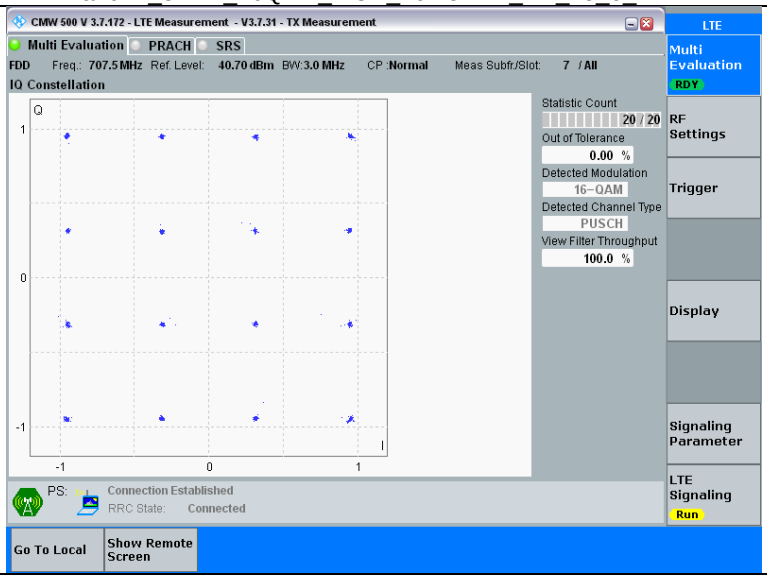
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



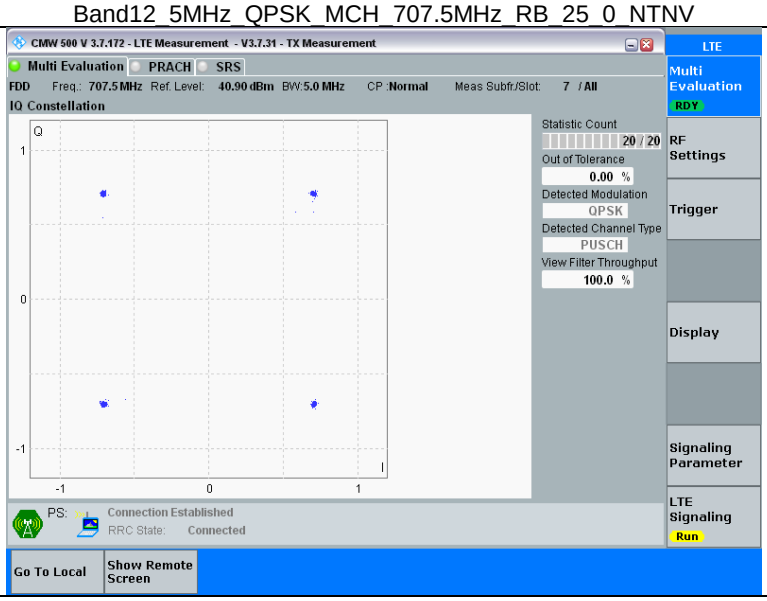
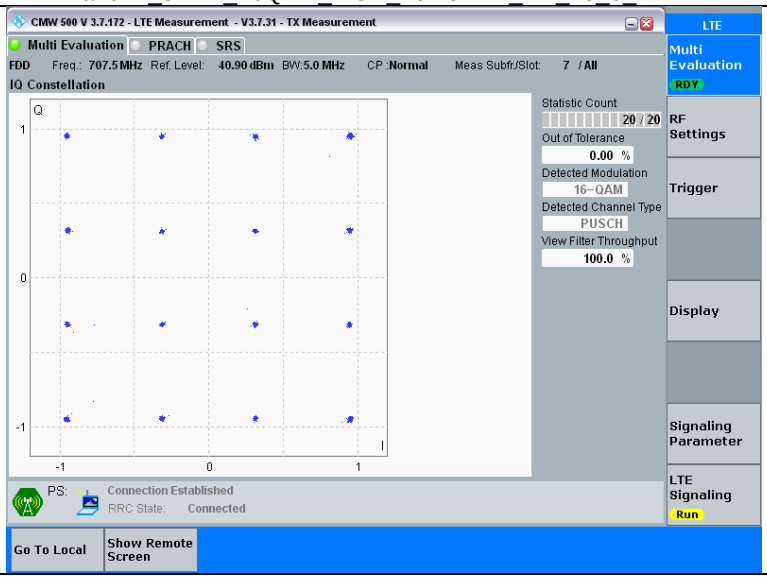
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



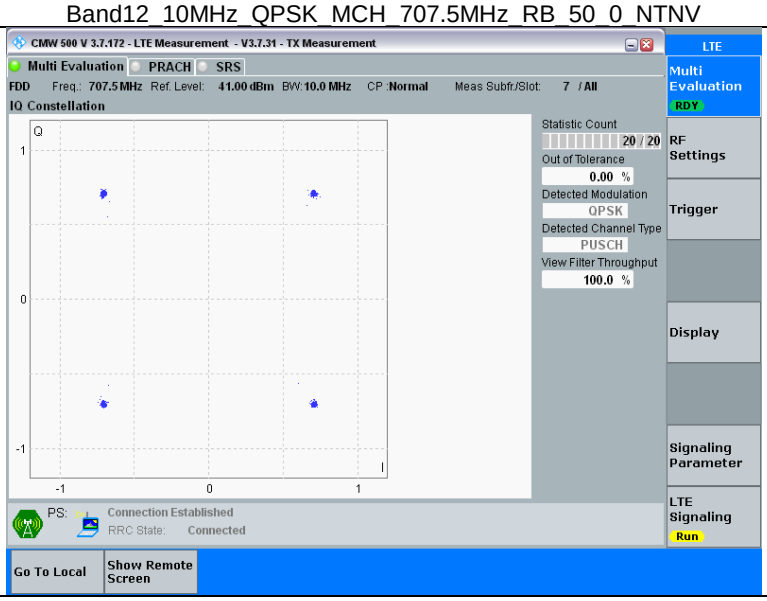
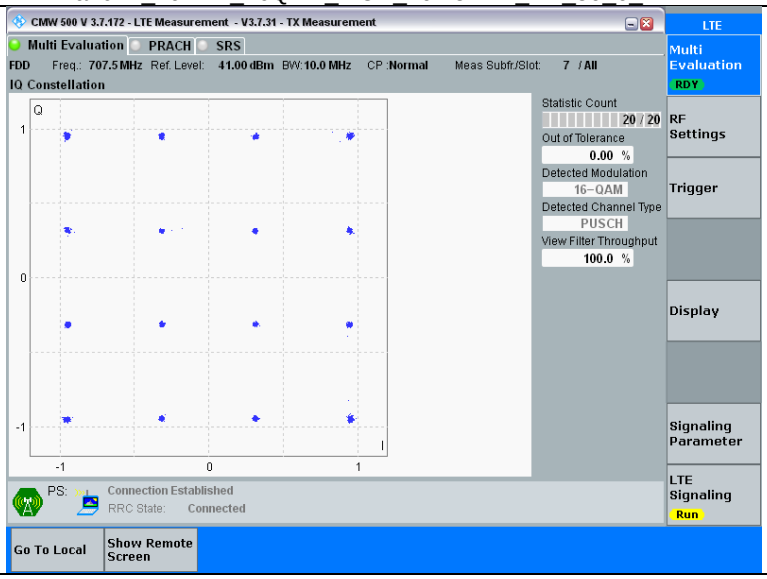
3.2.2 B12_3MHz

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	1.110	/	Pass
		715.3	6	0	1.107	/	Pass
	16QAM	699.7	6	0	1.107	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.113	/	Pass
3	QPSK	700.5	15	0	2.724	/	Pass
		707.5	15	0	2.730	/	Pass
		714.5	15	0	2.728	/	Pass
	16QAM	700.5	15	0	2.717	/	Pass
		707.5	15	0	2.720	/	Pass
		714.5	15	0	2.718	/	Pass
5	QPSK	701.5	25	0	4.564	/	Pass
		707.5	25	0	4.589	/	Pass
		713.5	25	0	4.556	/	Pass
	16QAM	701.5	25	0	4.546	/	Pass
		707.5	25	0	4.632	/	Pass
		713.5	25	0	4.576	/	Pass
10	QPSK	704	50	0	9.121	/	Pass
		707.5	50	0	9.084	/	Pass
		711	50	0	9.041	/	Pass
	16QAM	704	50	0	9.093	/	Pass
		707.5	50	0	9.105	/	Pass
		711	50	0	9.006	/	Pass

4.1.2 Band12_XDB

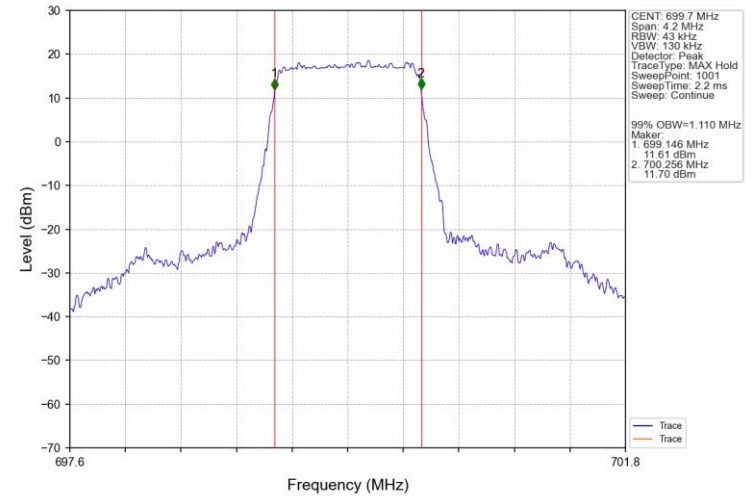
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.305	/	Pass
		707.5	6	0	1.325	/	Pass
		715.3	6	0	1.312	/	Pass
	16QAM	699.7	6	0	1.321	/	Pass
		707.5	6	0	1.296	/	Pass
		715.3	6	0	1.317	/	Pass
3	QPSK	700.5	15	0	2.985	/	Pass
		707.5	15	0	2.987	/	Pass
		714.5	15	0	3.007	/	Pass
	16QAM	700.5	15	0	2.976	/	Pass
		707.5	15	0	2.981	/	Pass
		714.5	15	0	2.972	/	Pass
5	QPSK	701.5	25	0	5.214	/	Pass
		707.5	25	0	6.016	/	Pass
		713.5	25	0	5.262	/	Pass

	16QAM	701.5	25	0	5.137	/	Pass
		707.5	25	0	5.762	/	Pass
		713.5	25	0	5.167	/	Pass
10	QPSK	704	50	0	10.263	/	Pass
		707.5	50	0	10.292	/	Pass
		711	50	0	10.280	/	Pass
	16QAM	704	50	0	10.269	/	Pass
		707.5	50	0	10.241	/	Pass
		711	50	0	10.103	/	Pass

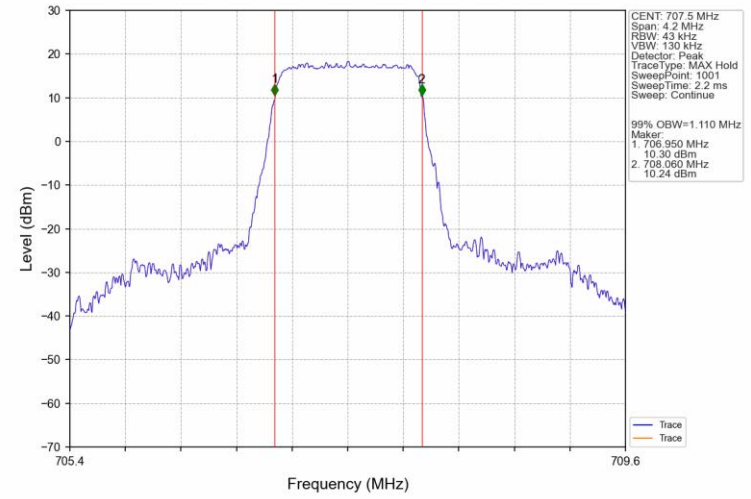
4.2 Test Graph

4.2.1 Band12_OBW

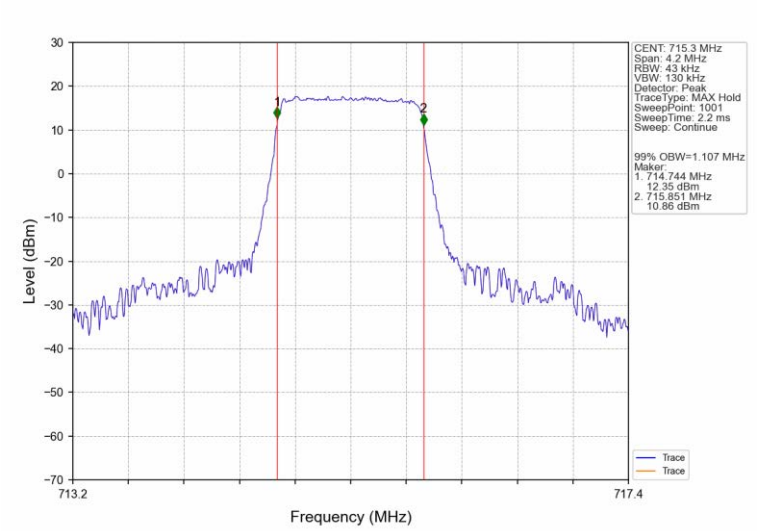
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



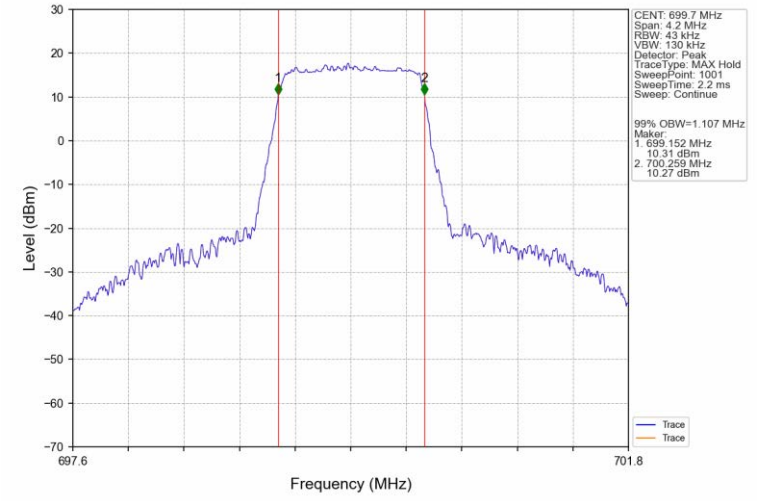
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



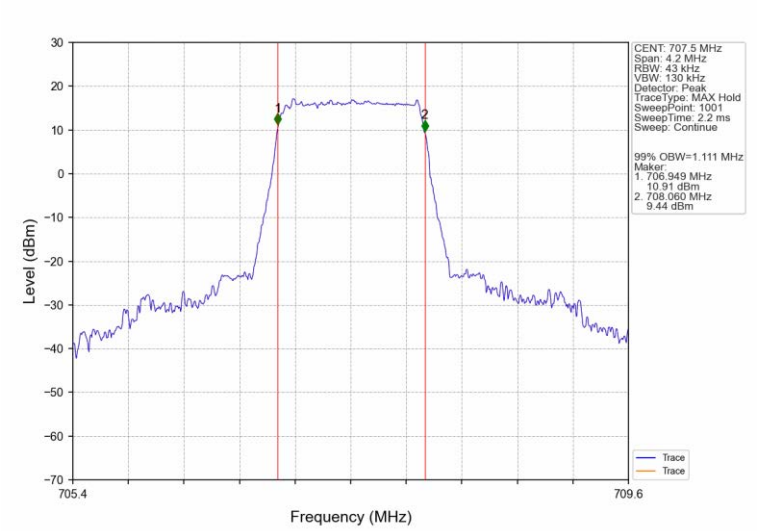
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



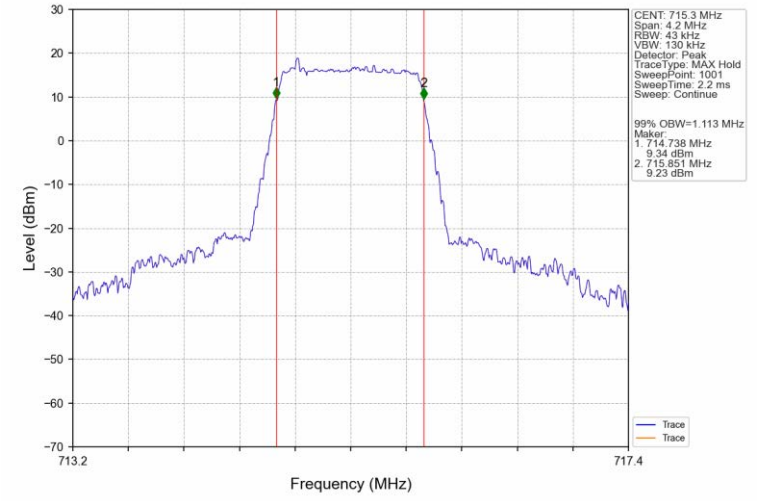
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



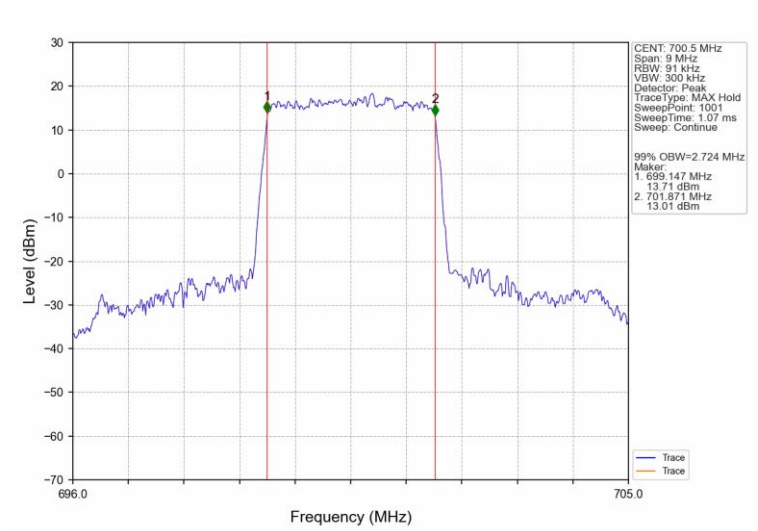
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



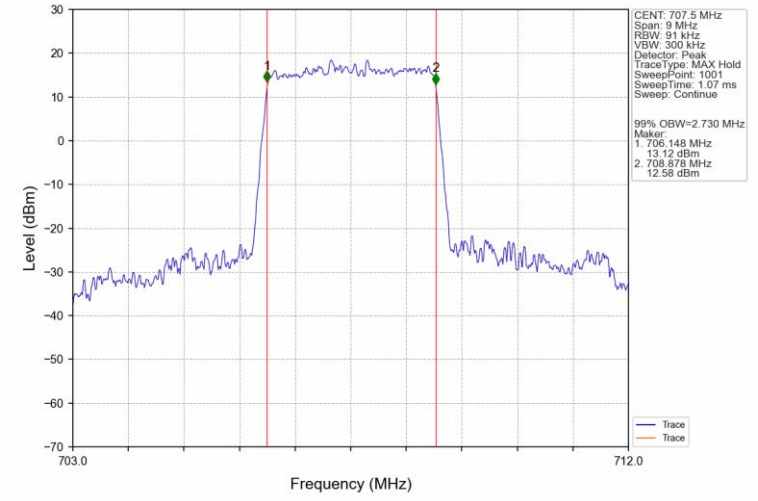
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



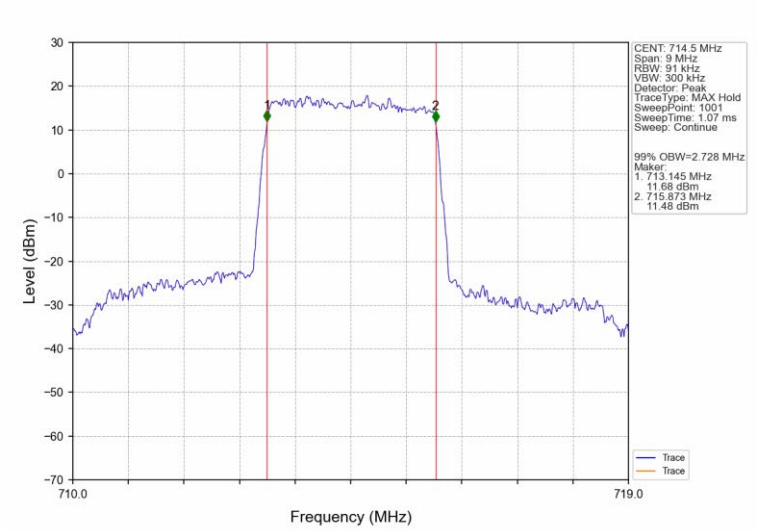
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



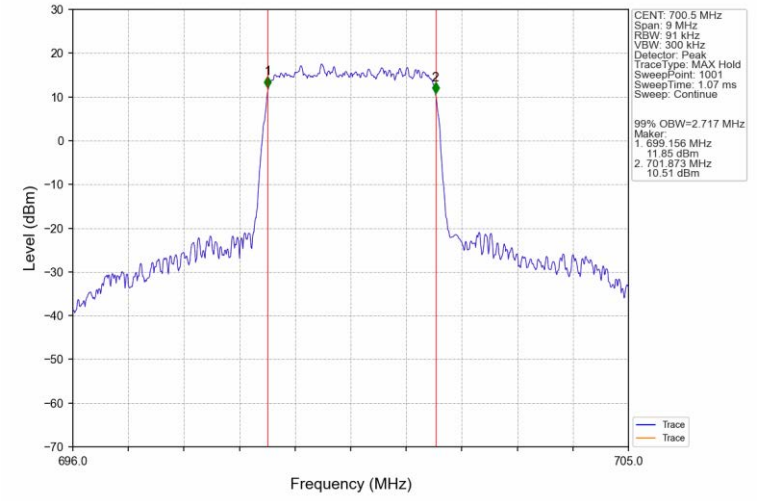
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



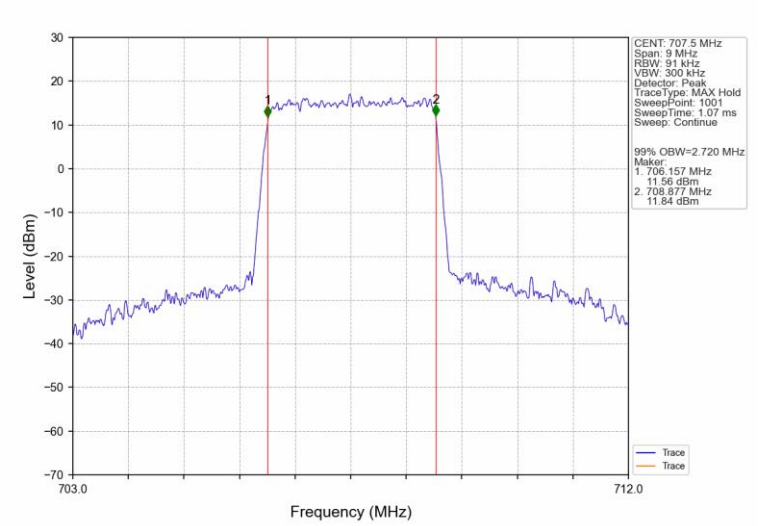
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



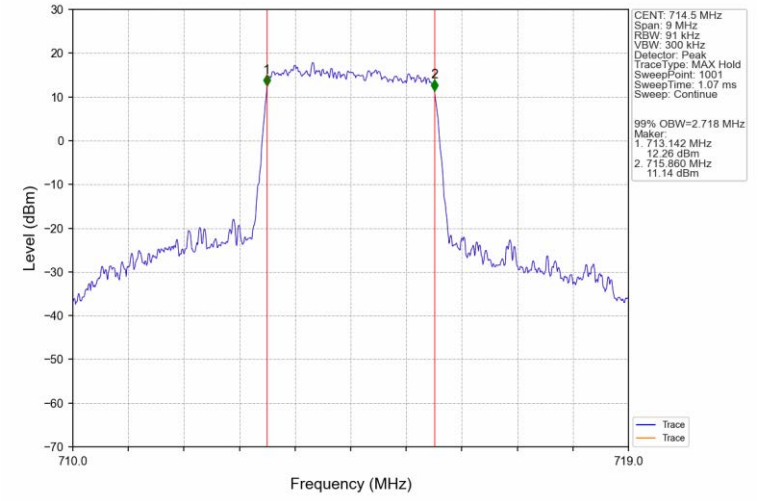
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



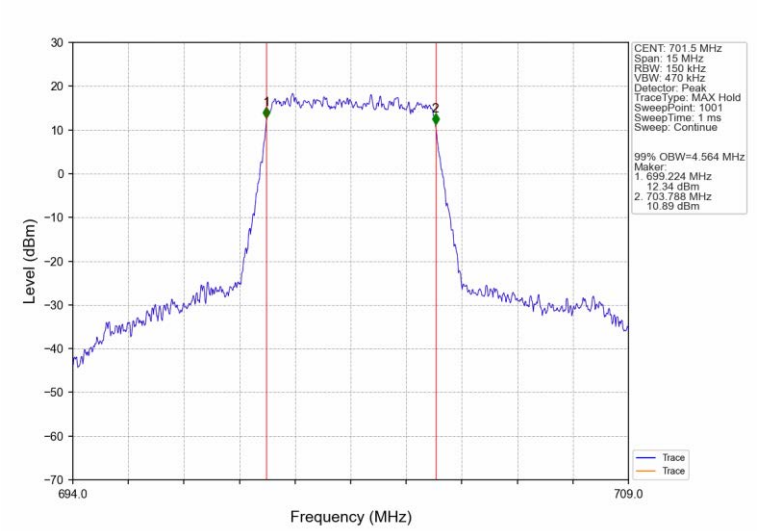
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



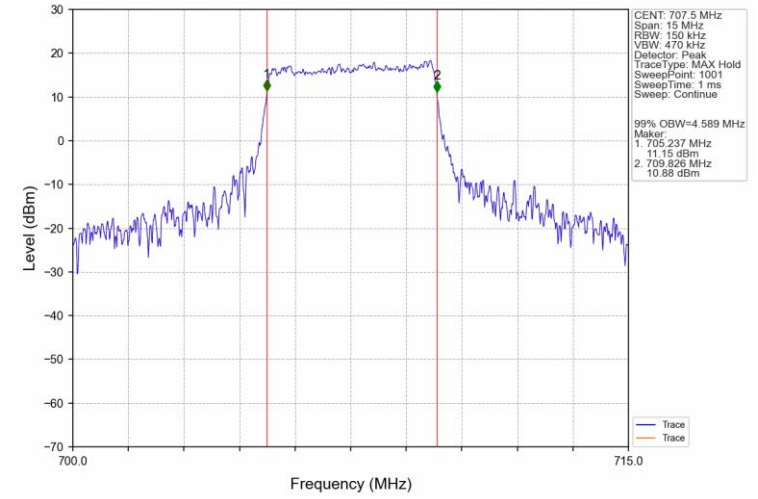
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



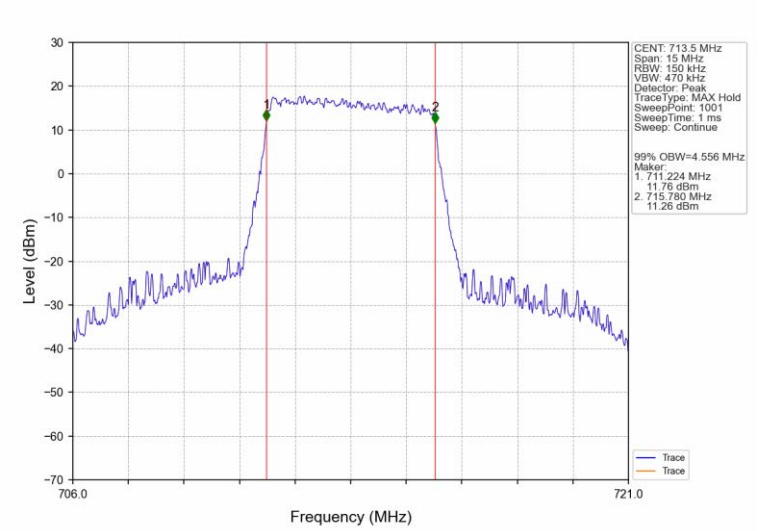
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



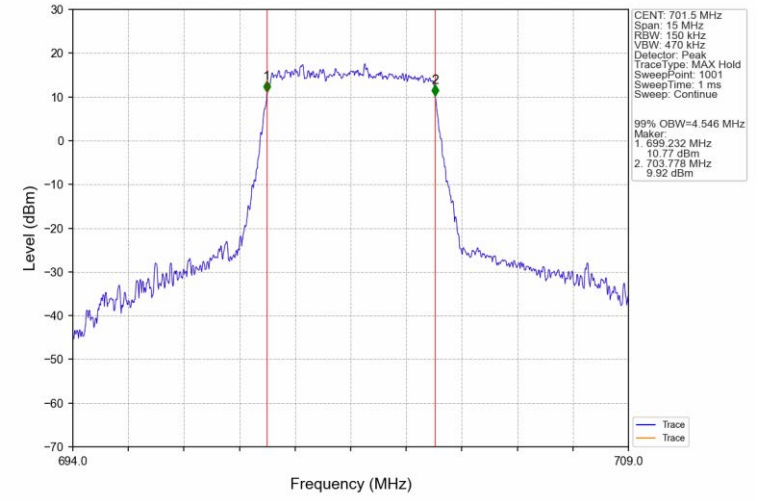
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



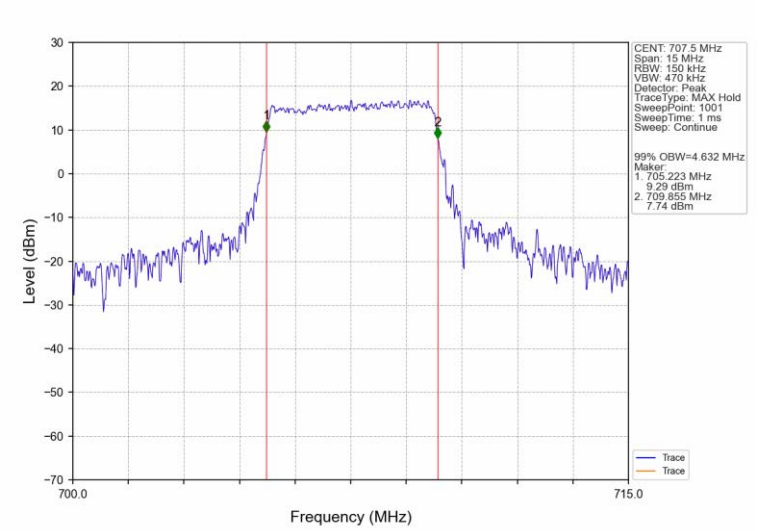
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



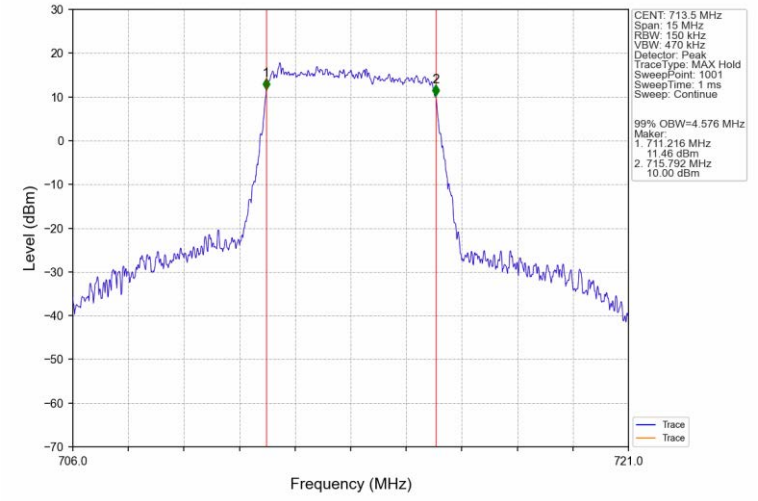
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



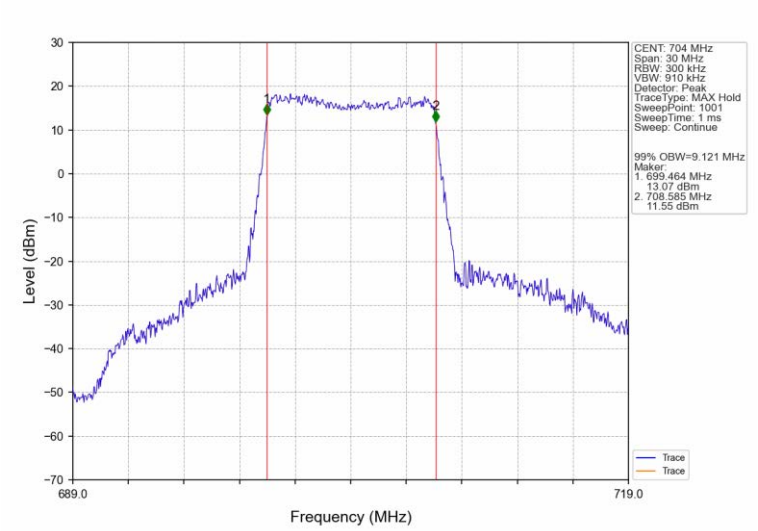
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



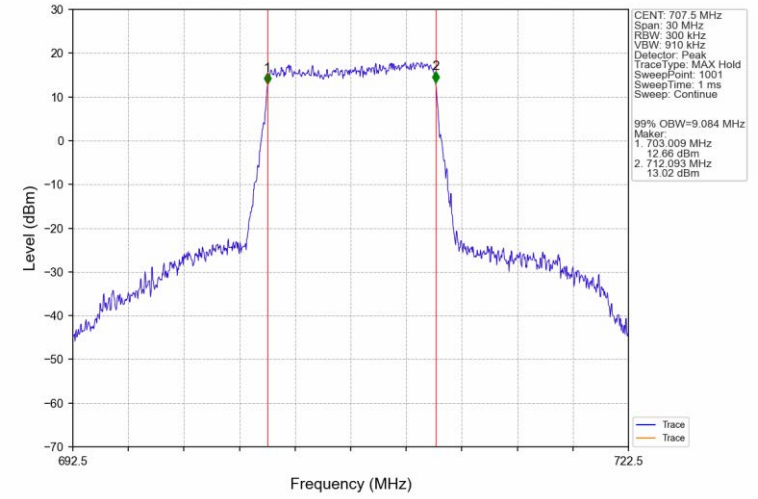
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



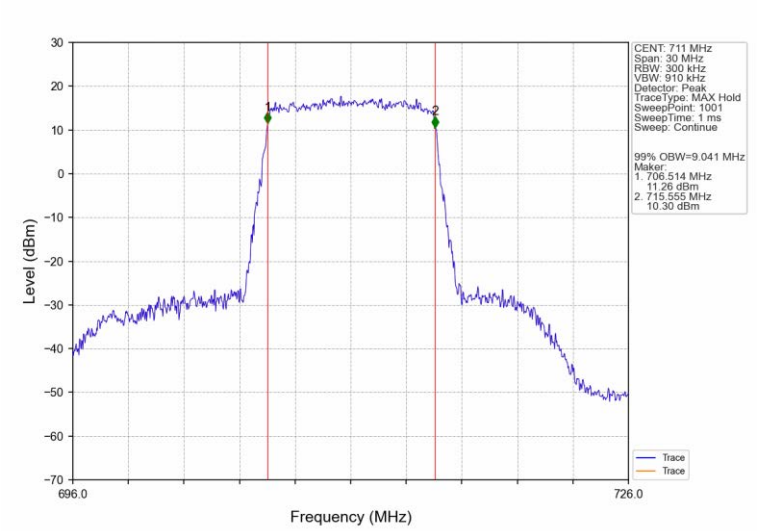
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



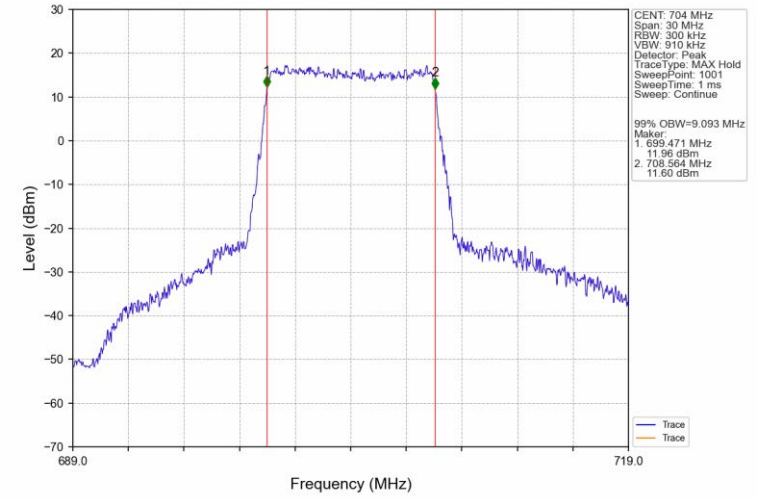
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



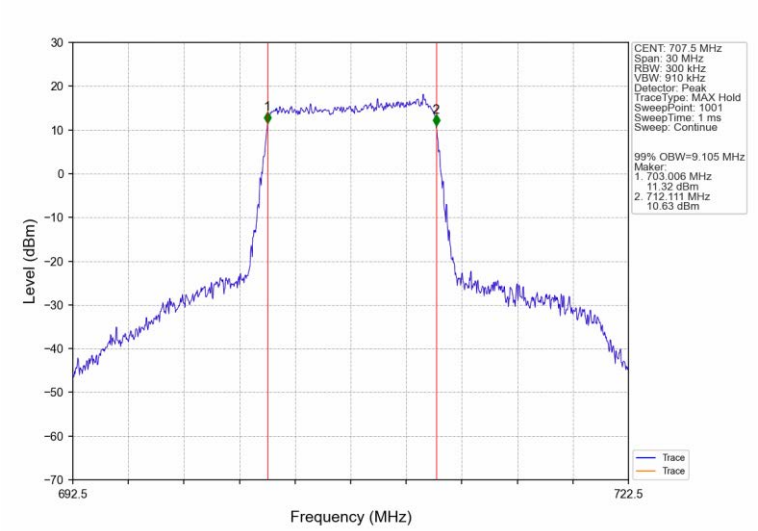
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



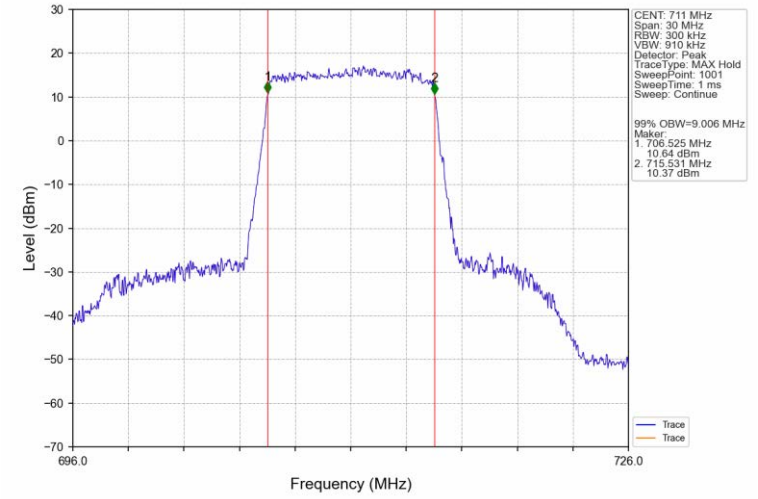
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



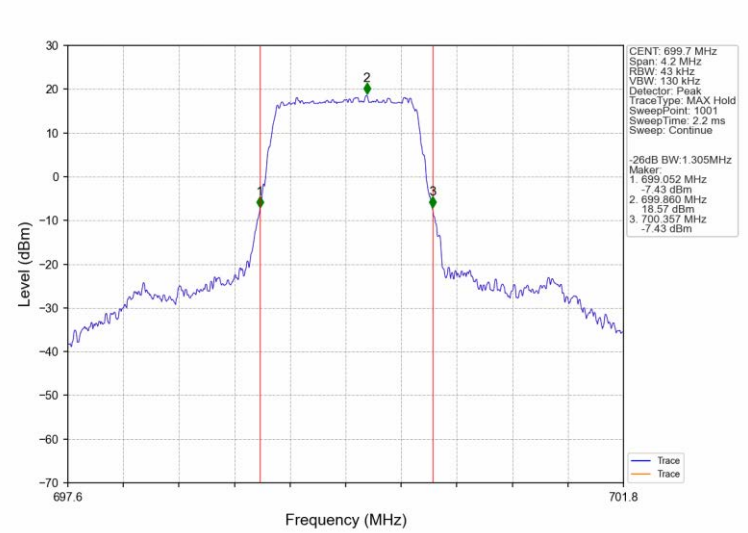
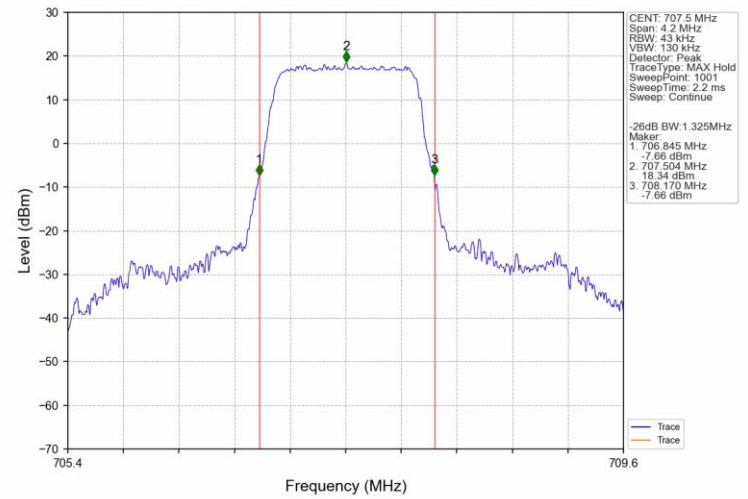
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



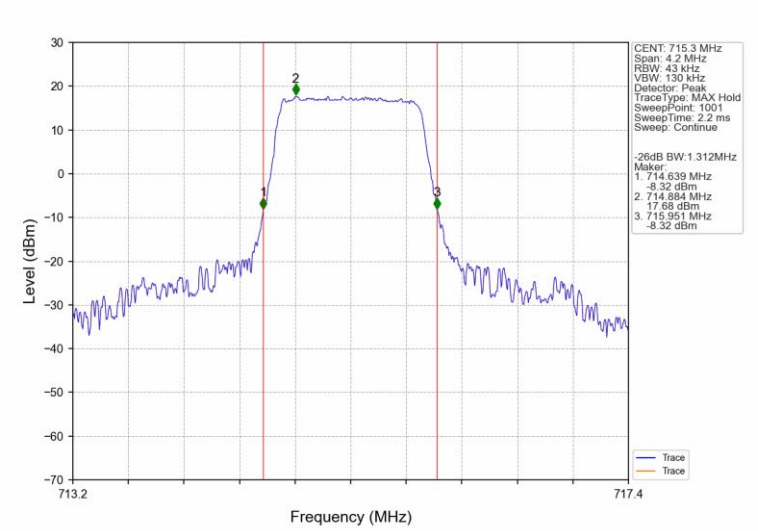
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



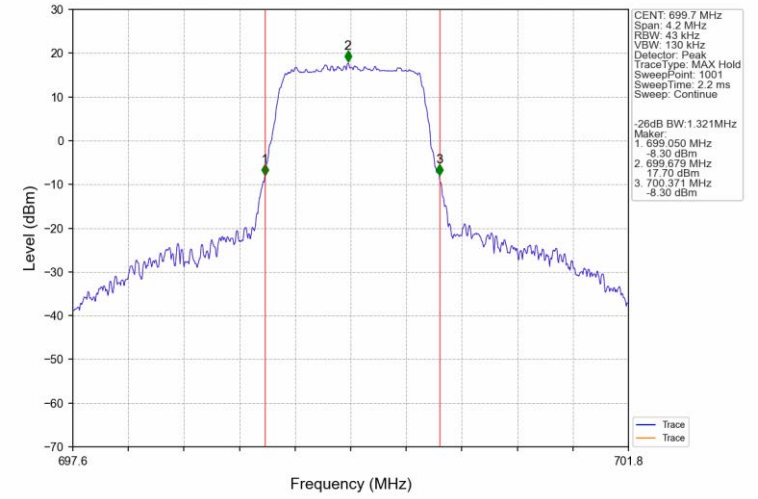
4.2.2 Band12_XDB

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV


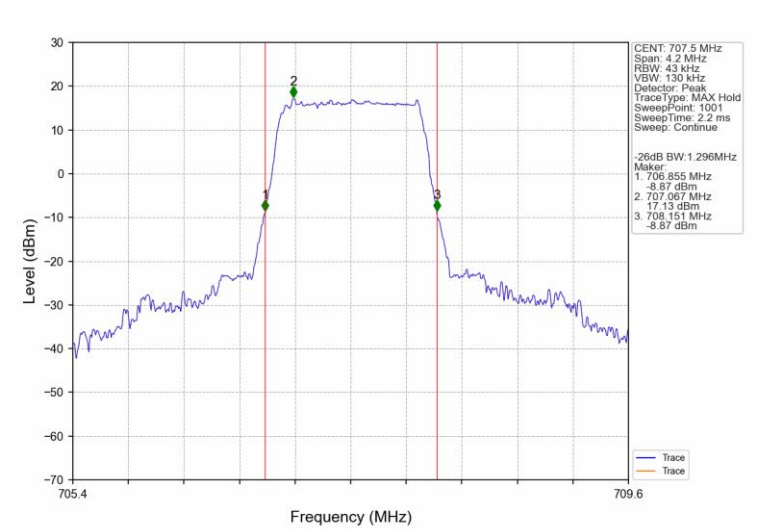
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



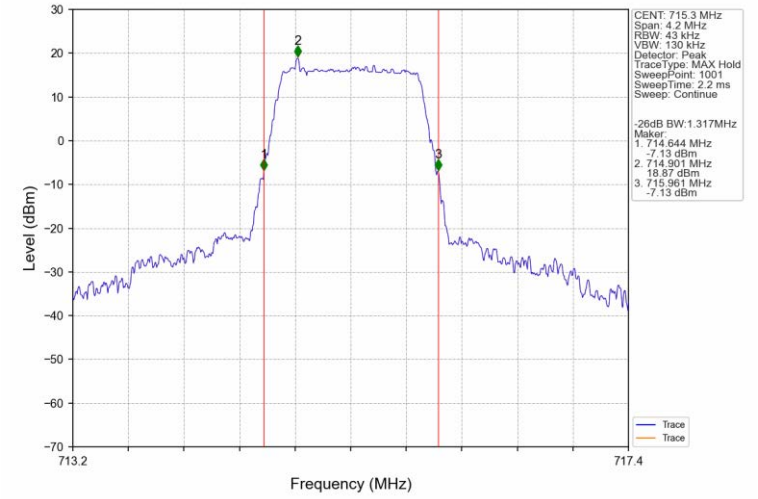
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



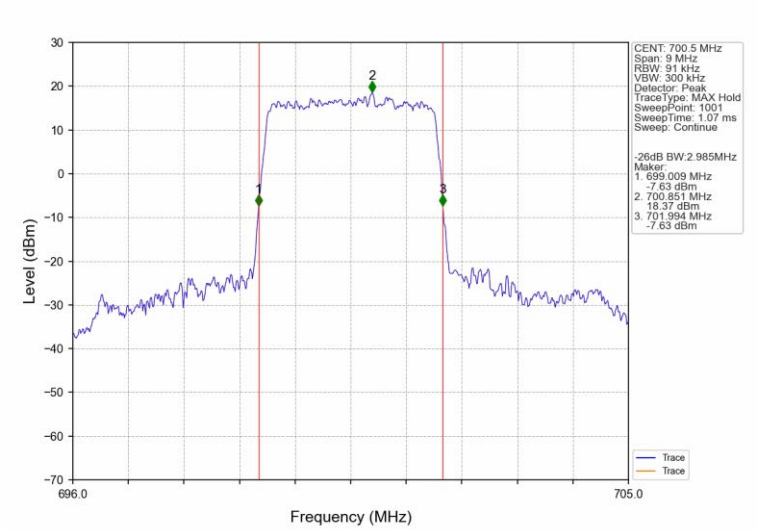
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



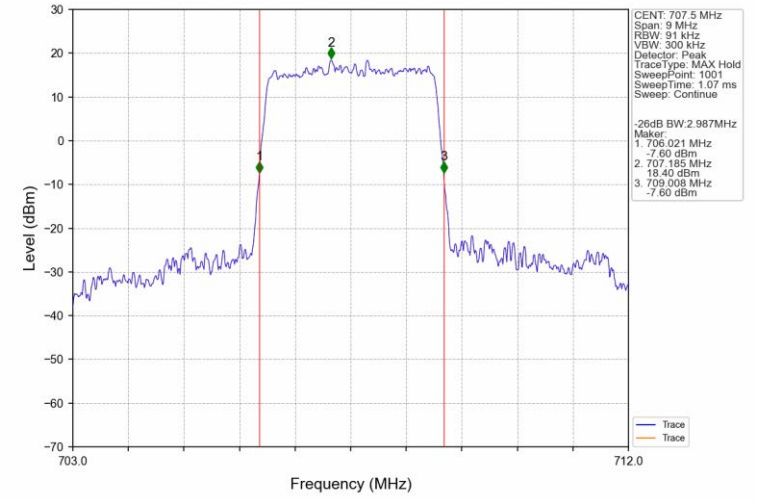
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



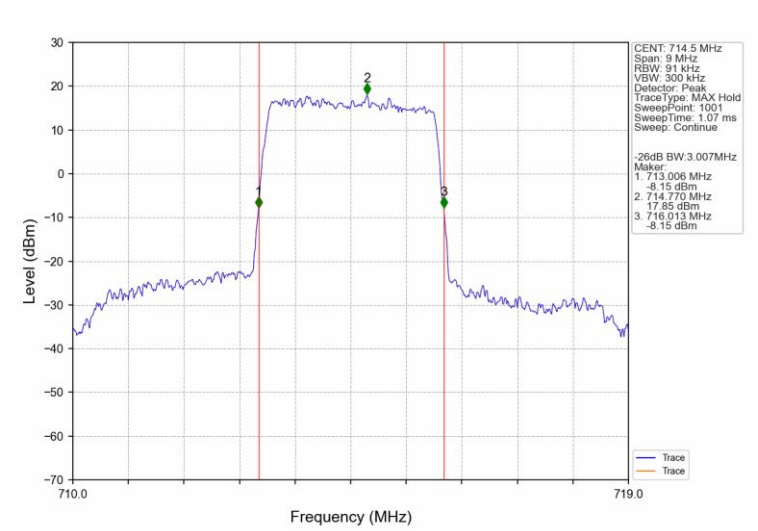
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



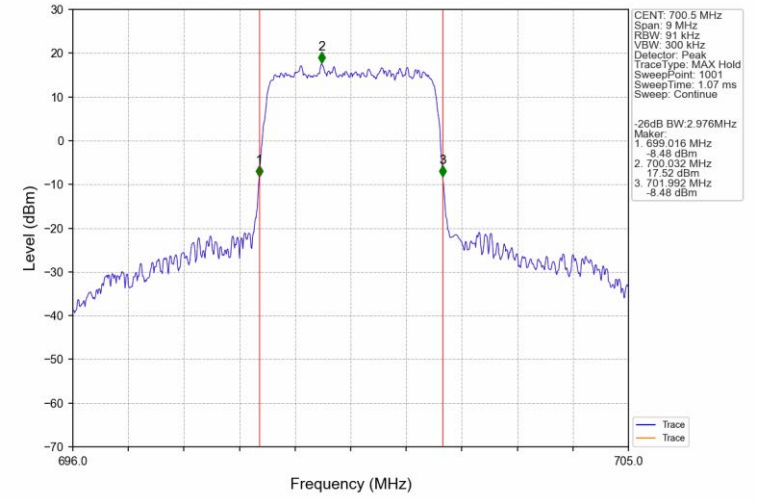
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



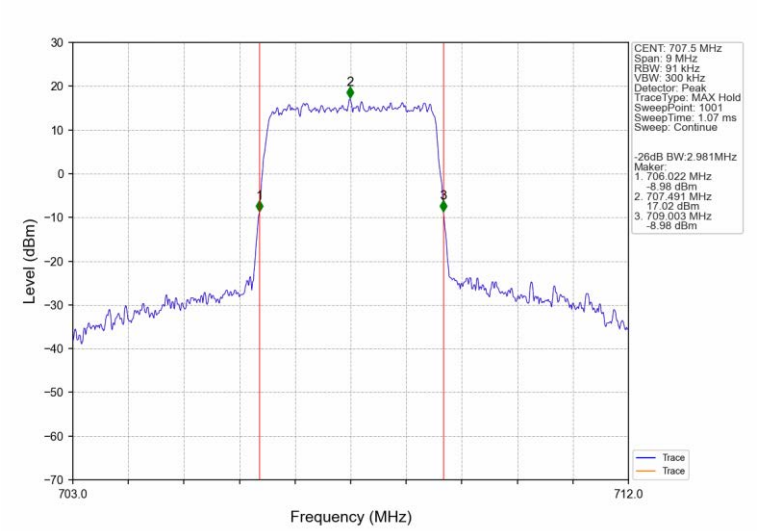
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



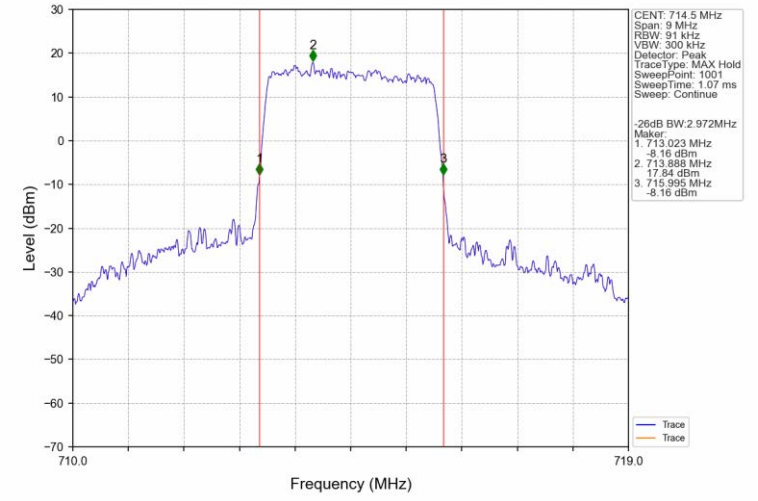
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



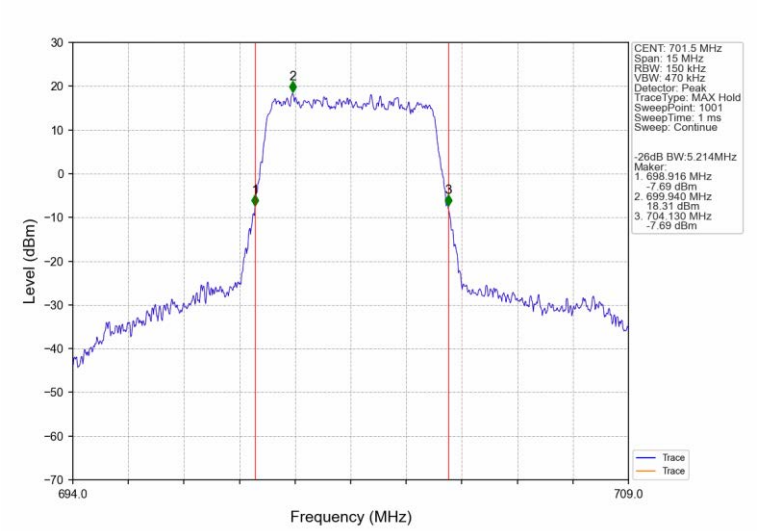
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



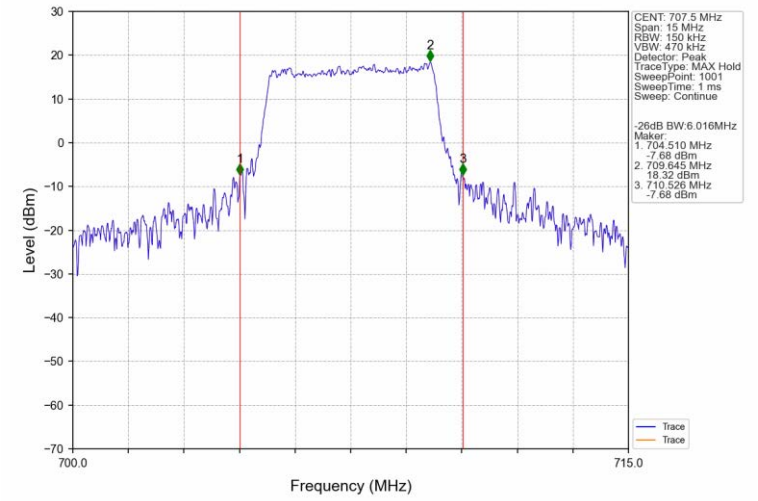
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



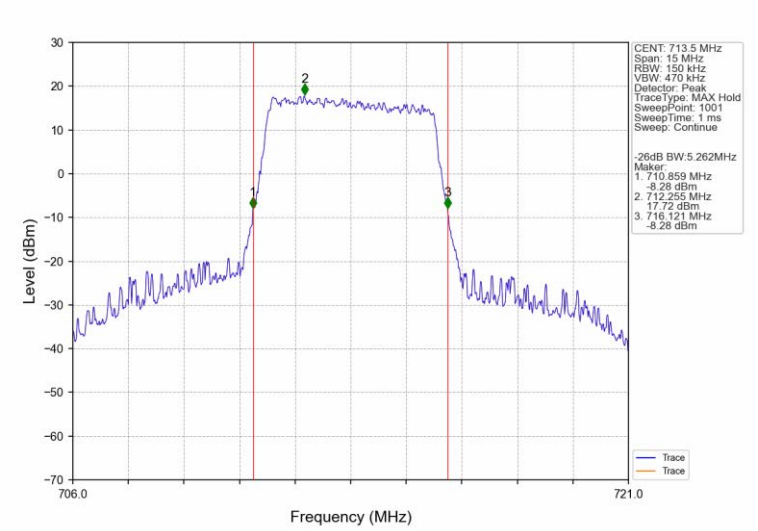
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



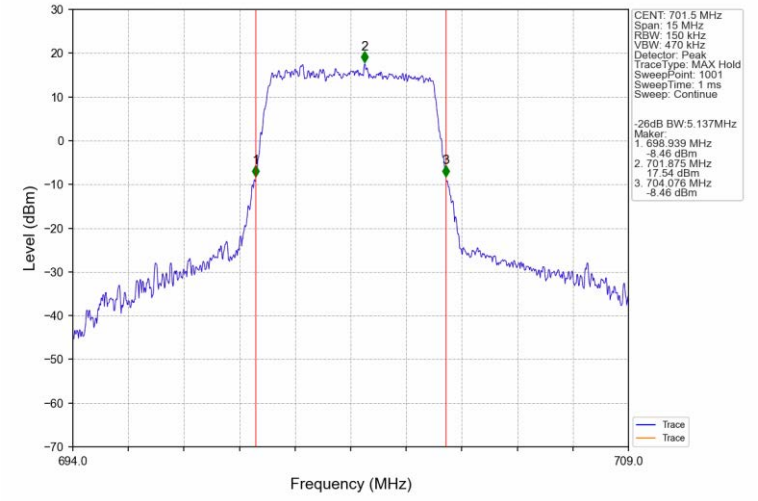
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



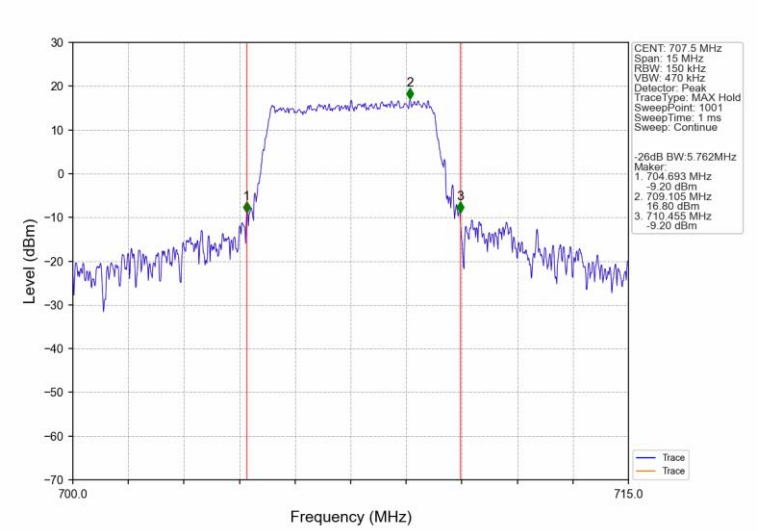
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



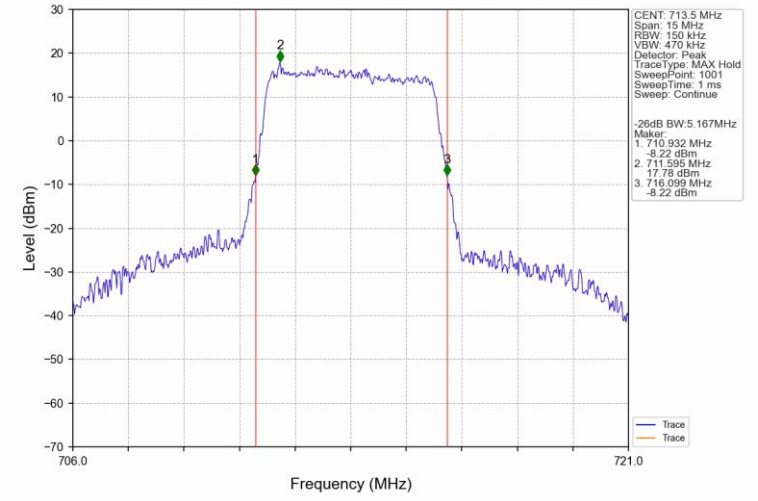
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



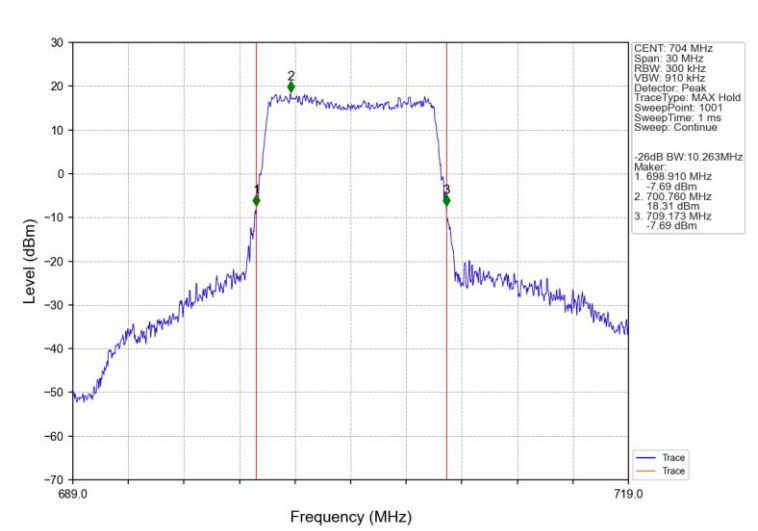
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



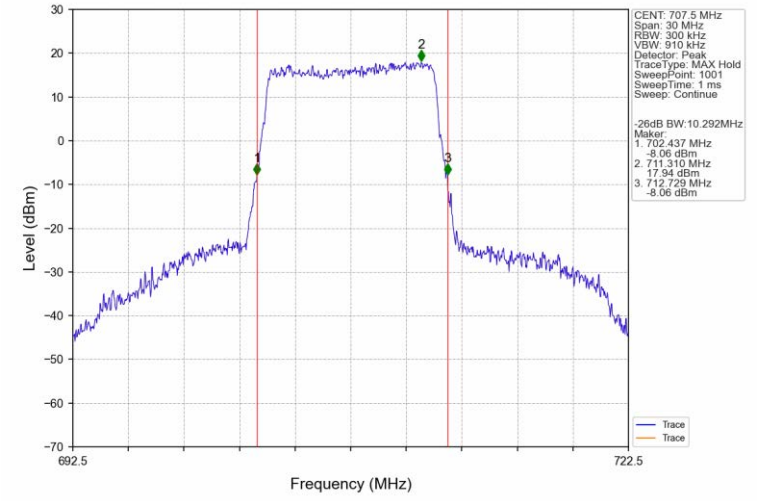
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



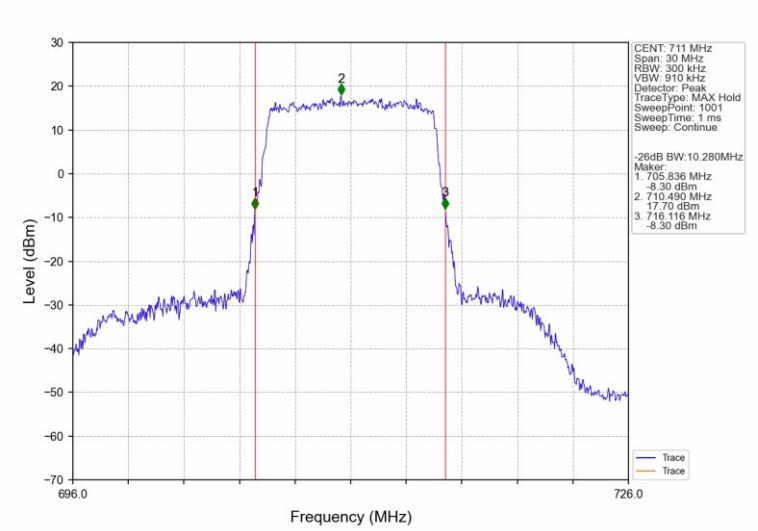
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



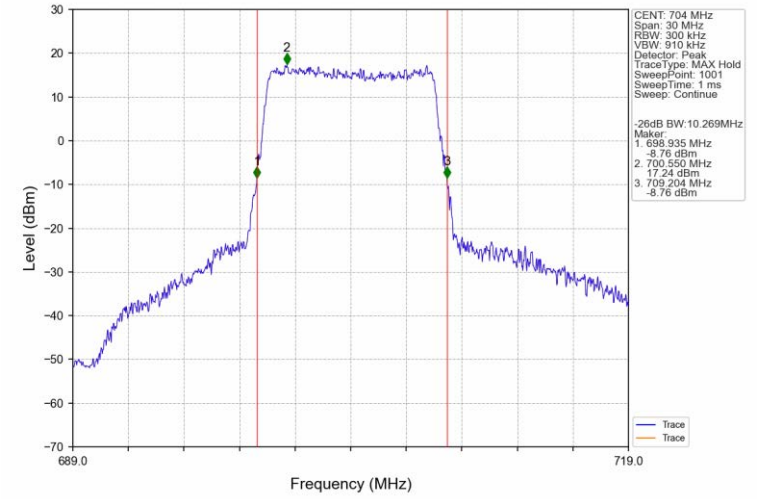
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



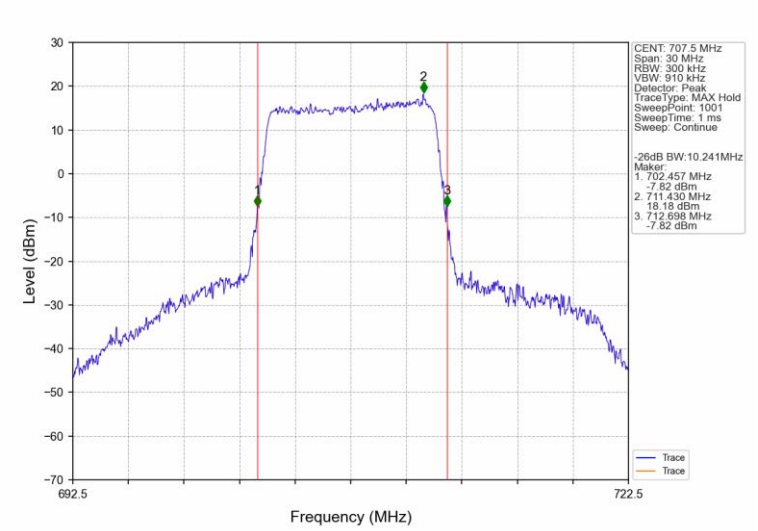
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



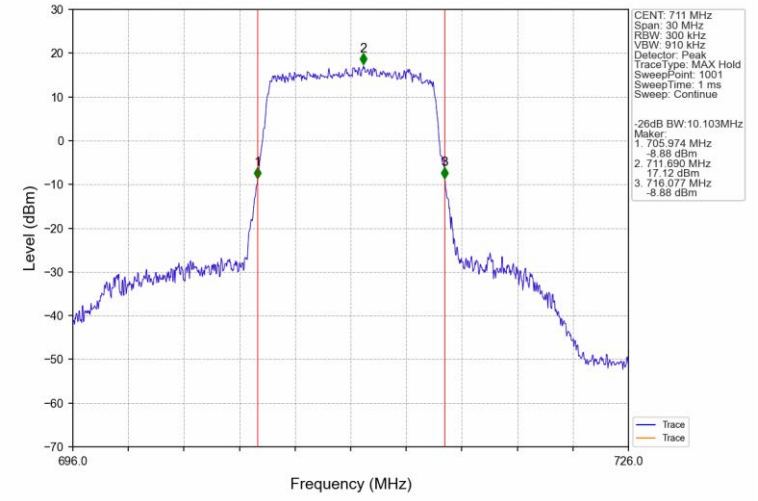
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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	5.26	<=13	Pass
	707.5	6	0	5.46	<=13	Pass
	715.3	6	0	5.42	<=13	Pass
16QAM	699.7	6	0	6.08	<=13	Pass
	707.5	6	0	6.32	<=13	Pass
	715.3	6	0	6.29	<=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	5.46	<=13	Pass
	707.5	15	0	5.53	<=13	Pass
	714.5	15	0	5.59	<=13	Pass
16QAM	700.5	15	0	6.29	<=13	Pass
	707.5	15	0	6.37	<=13	Pass
	714.5	15	0	6.41	<=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	5.57	<=13	Pass
	707.5	25	0	5.74	<=13	Pass
	713.5	25	0	5.59	<=13	Pass
16QAM	701.5	25	0	6.36	<=13	Pass
	707.5	25	0	6.44	<=13	Pass
	713.5	25	0	6.33	<=13	Pass

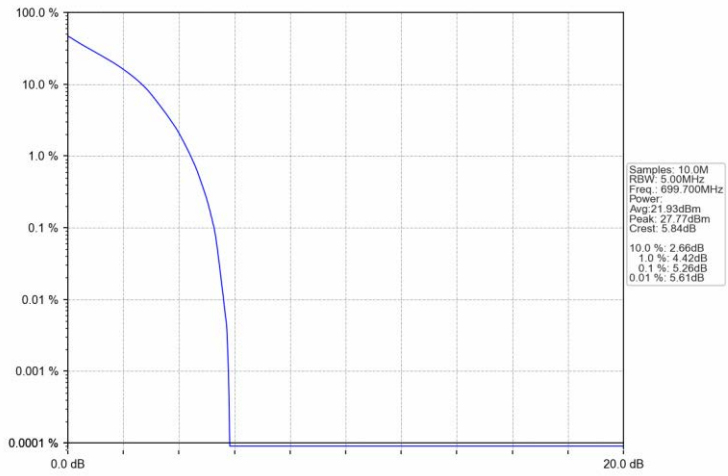
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.72	<=13	Pass
	707.5	50	0	5.68	<=13	Pass
	711	50	0	5.45	<=13	Pass
16QAM	704	50	0	6.46	<=13	Pass
	707.5	50	0	6.46	<=13	Pass
	711	50	0	6.24	<=13	Pass

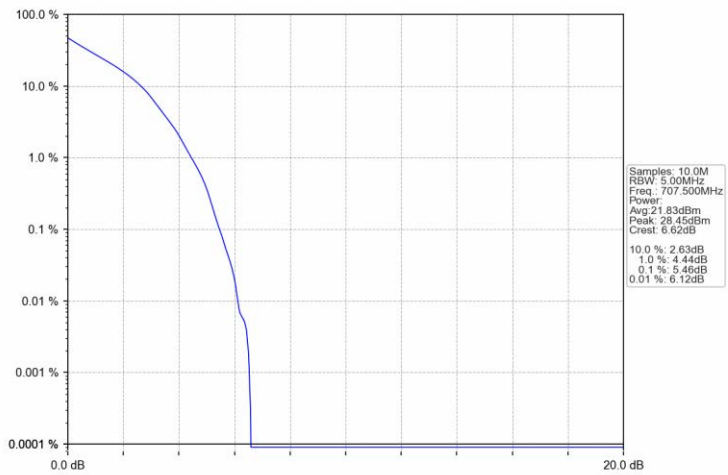
5.2 Test Graph

5.2.1 B12_1.4MHz

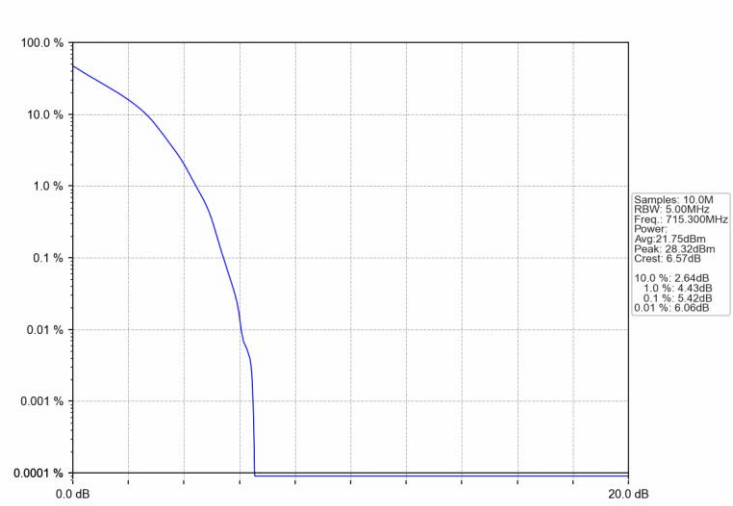
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



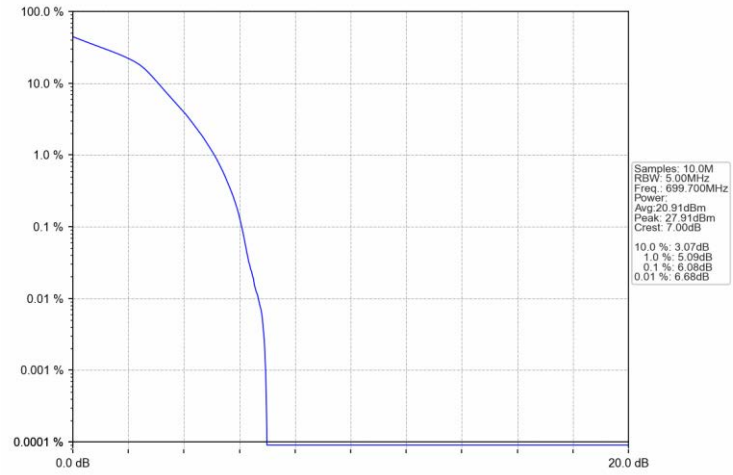
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



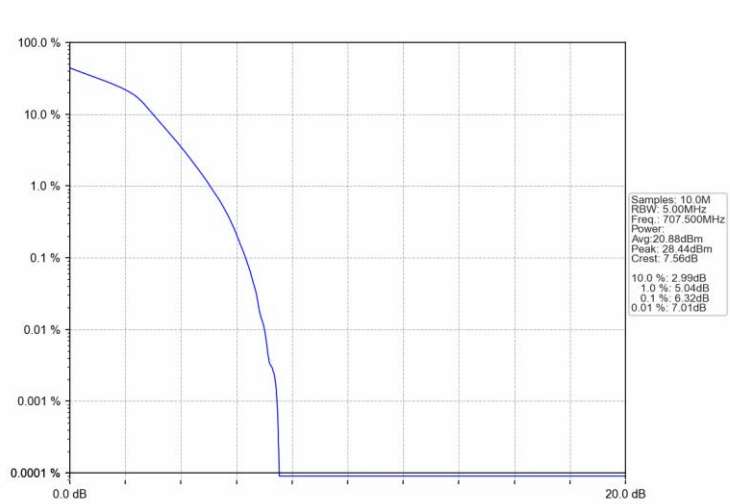
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



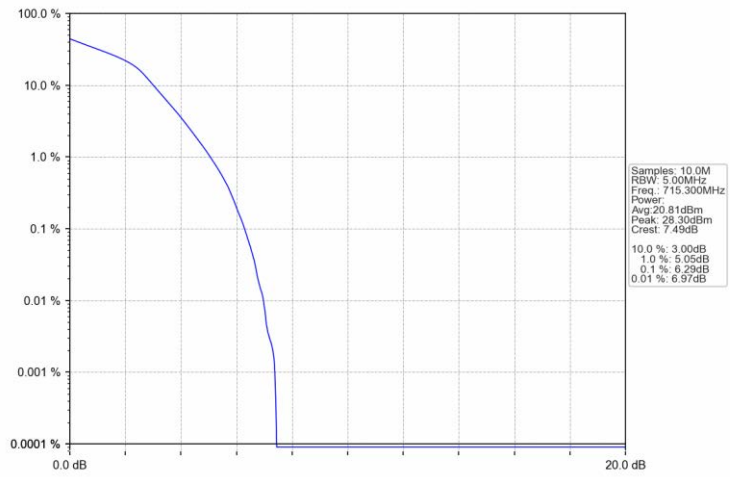
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



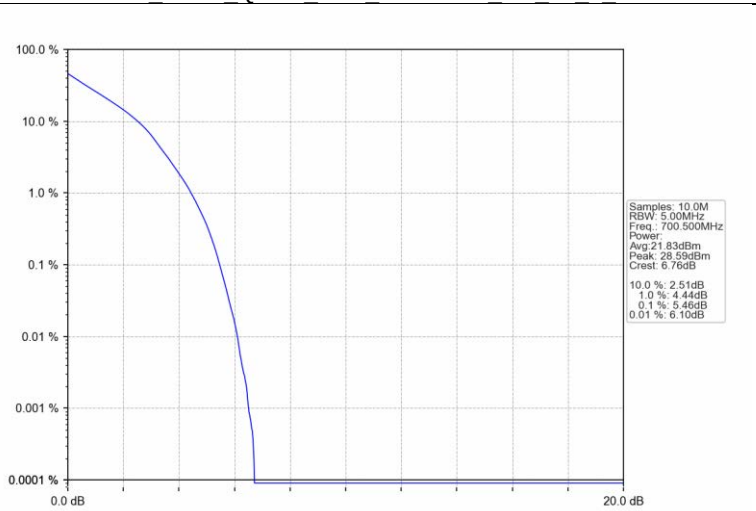
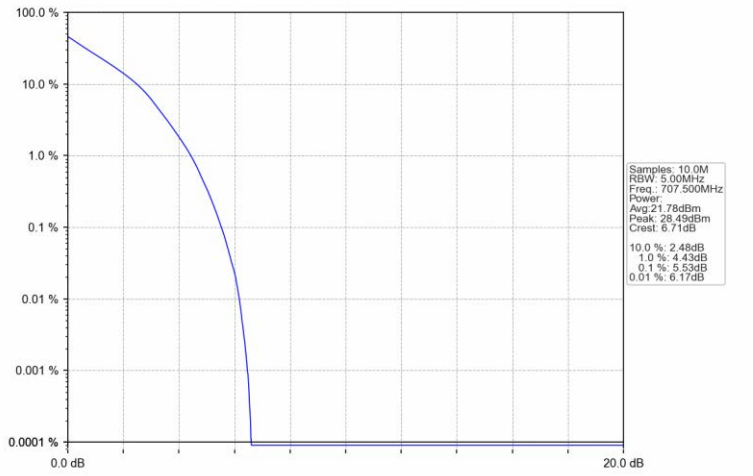
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



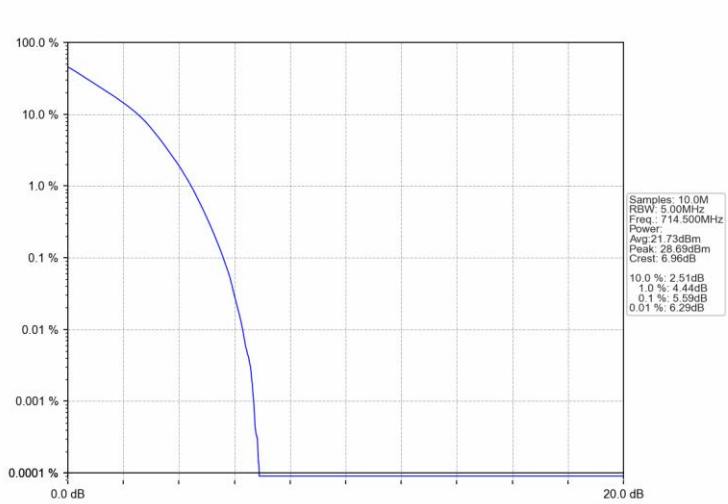
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



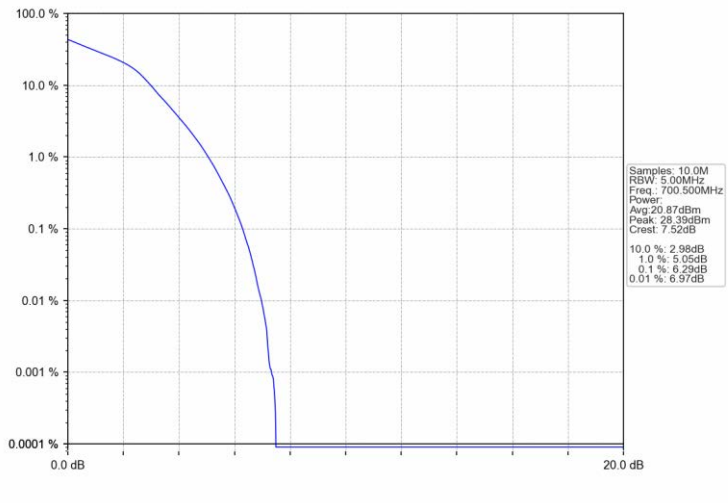
5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV


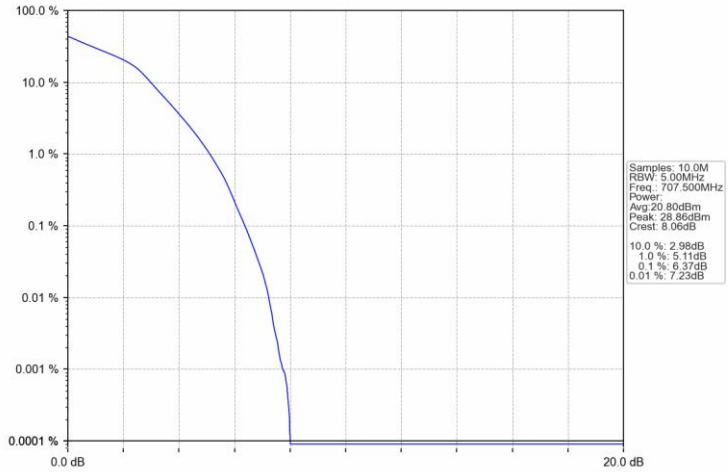
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



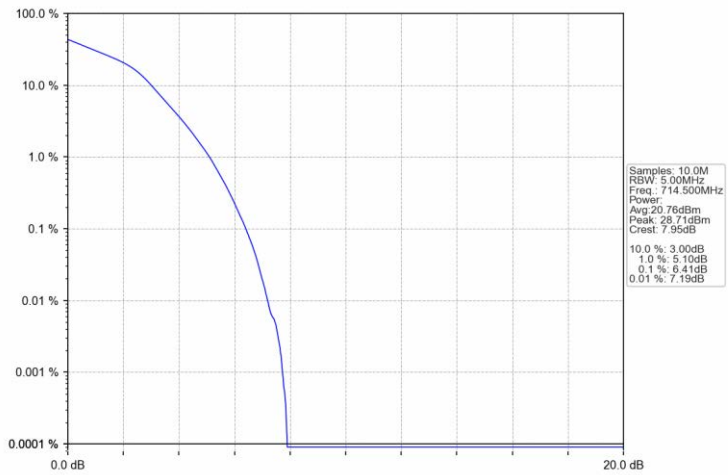
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

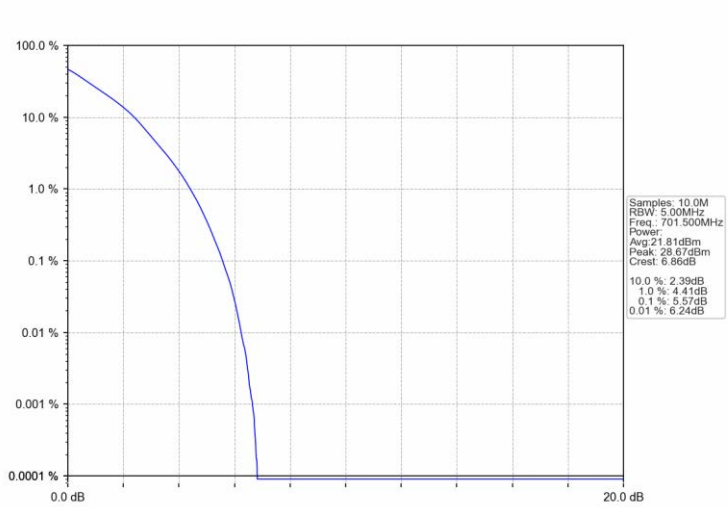


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

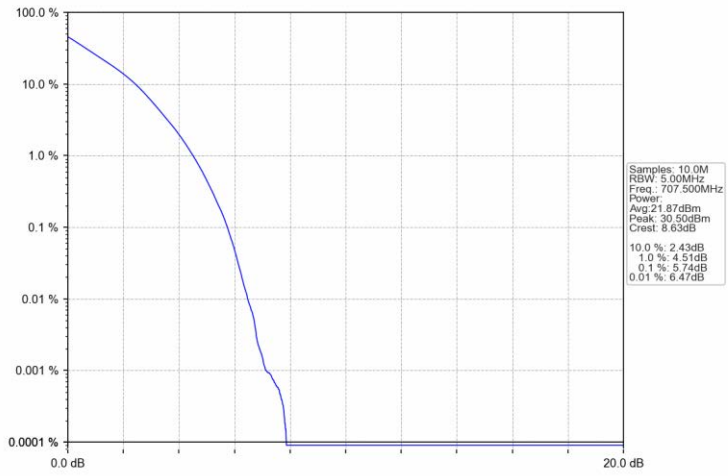


5.2.3 B12_5MHz

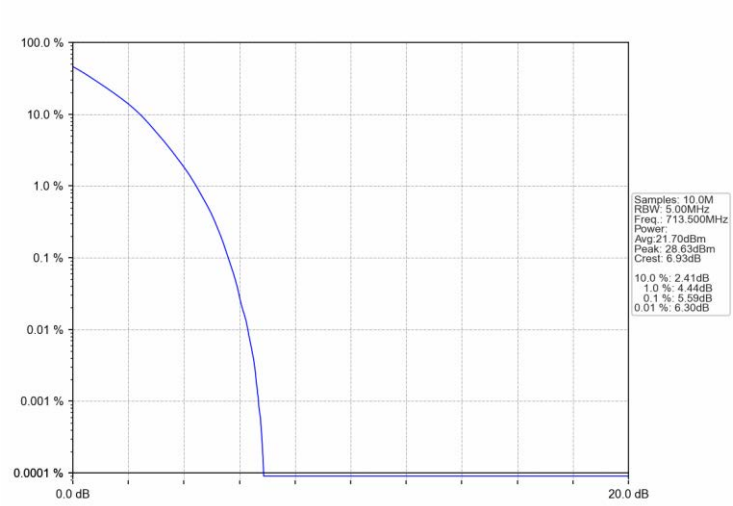
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



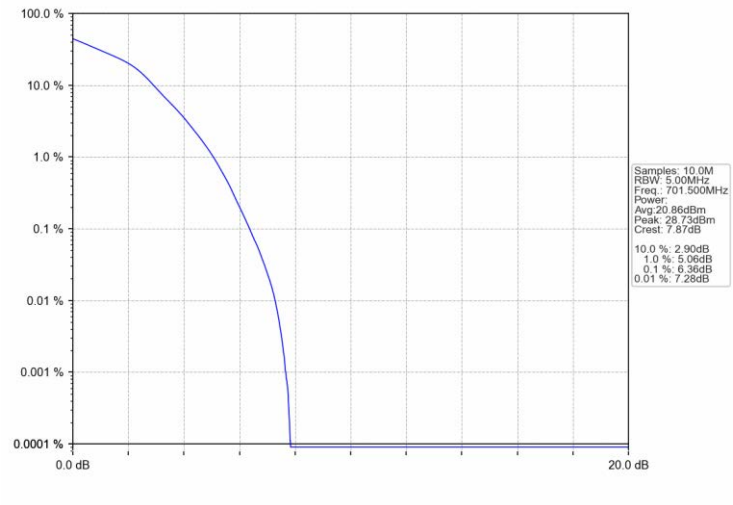
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



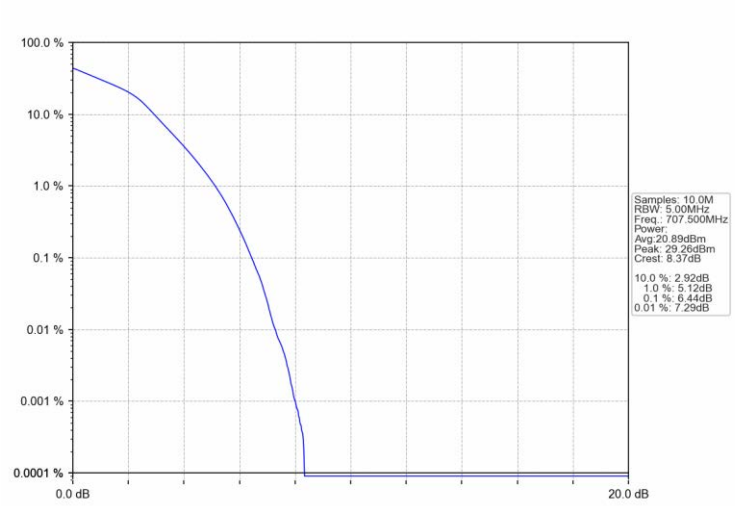
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



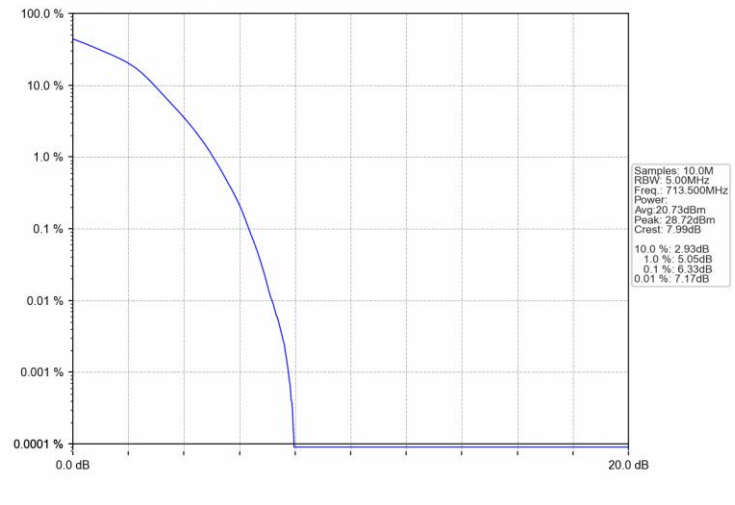
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



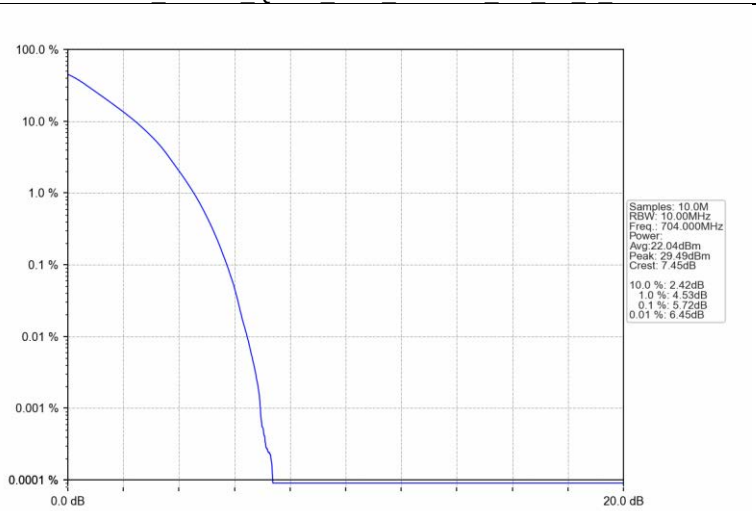
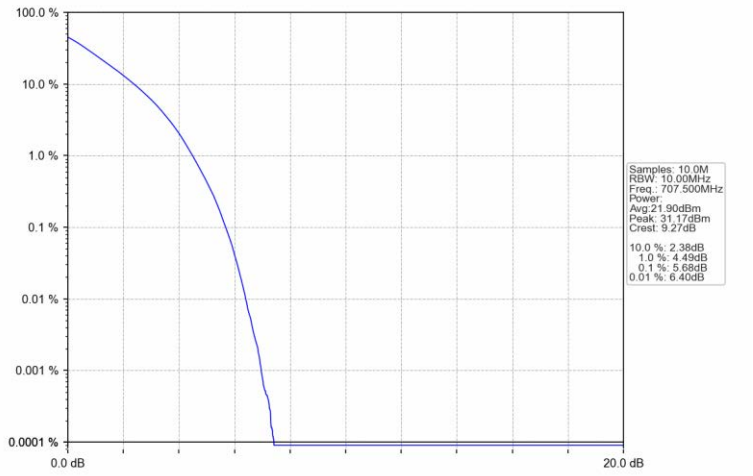
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

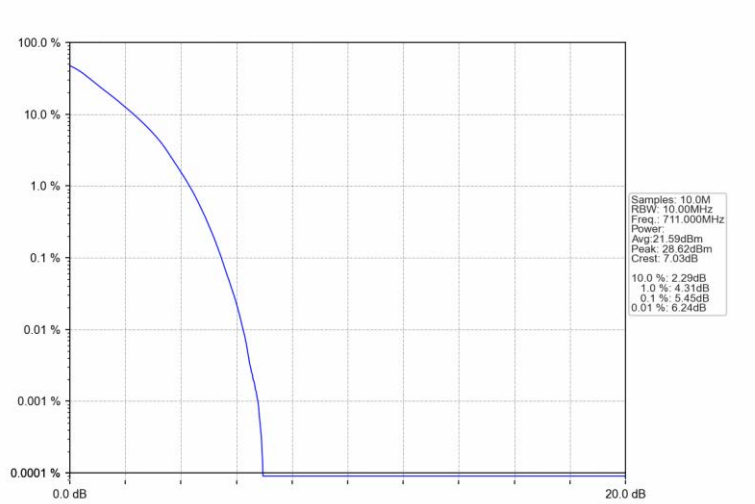
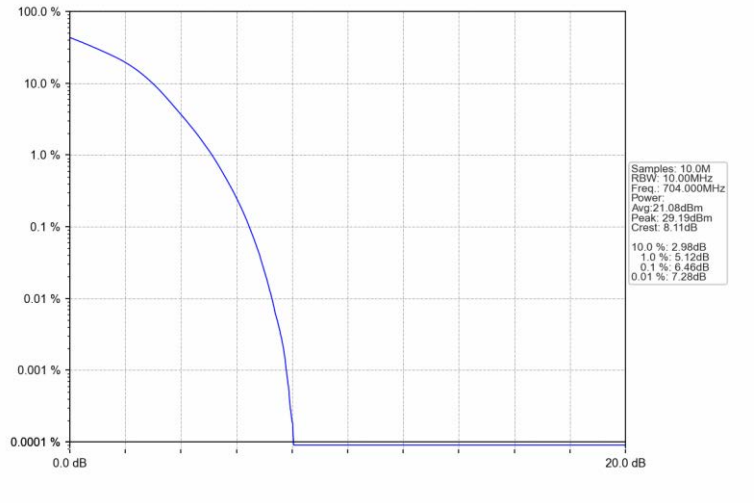


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

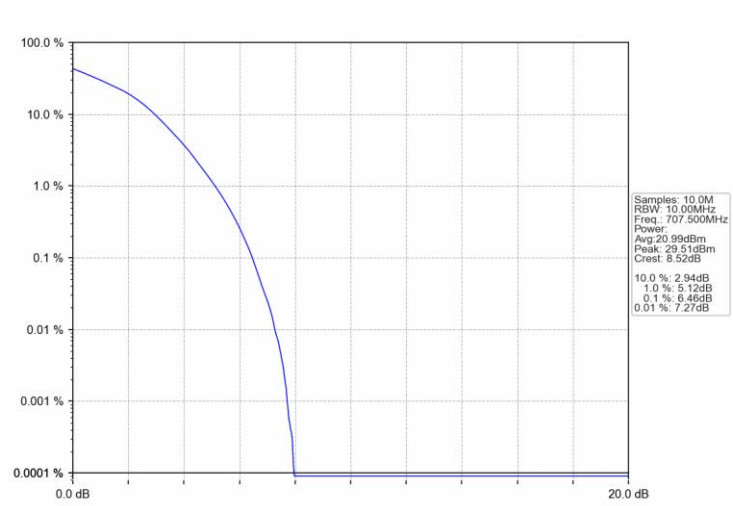


5.2.4 B12_10MHz

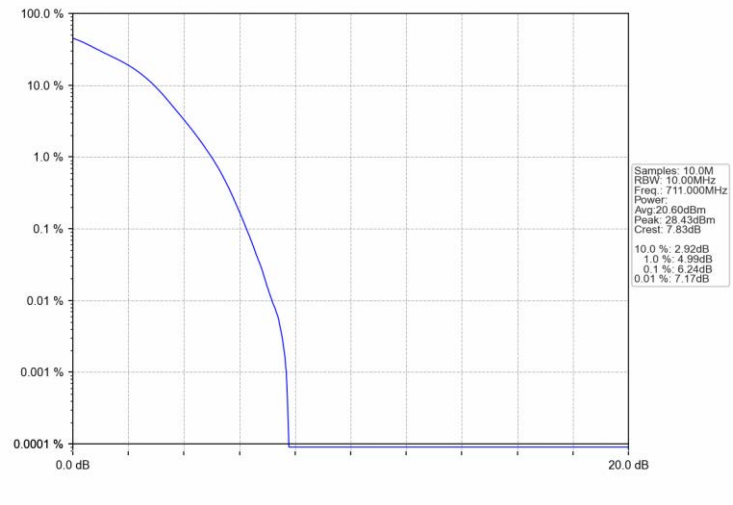
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

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



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

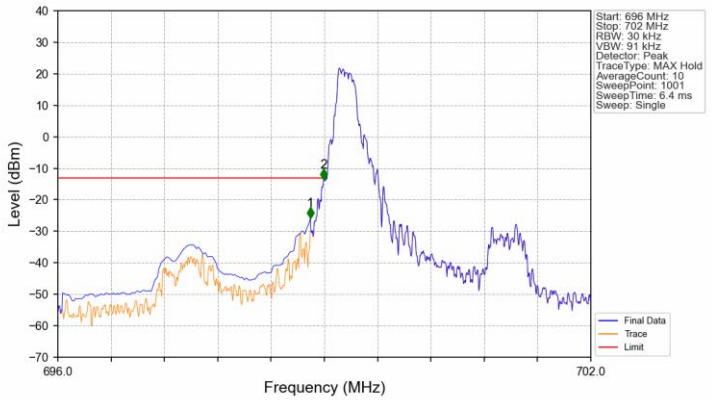
6.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2 Test Graph

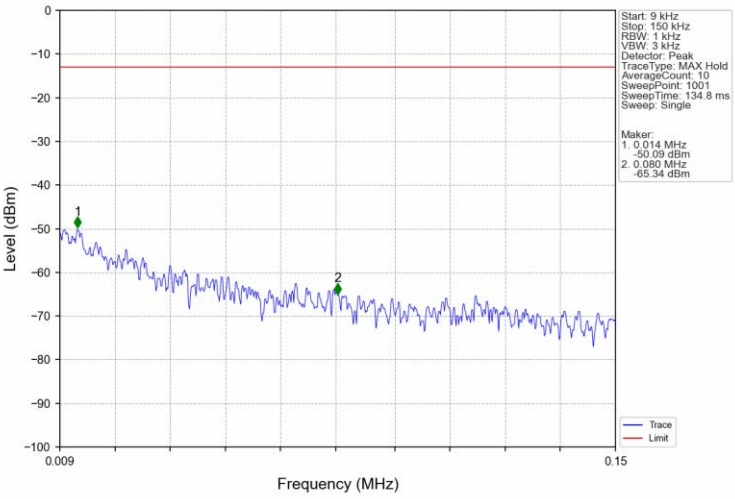
6.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

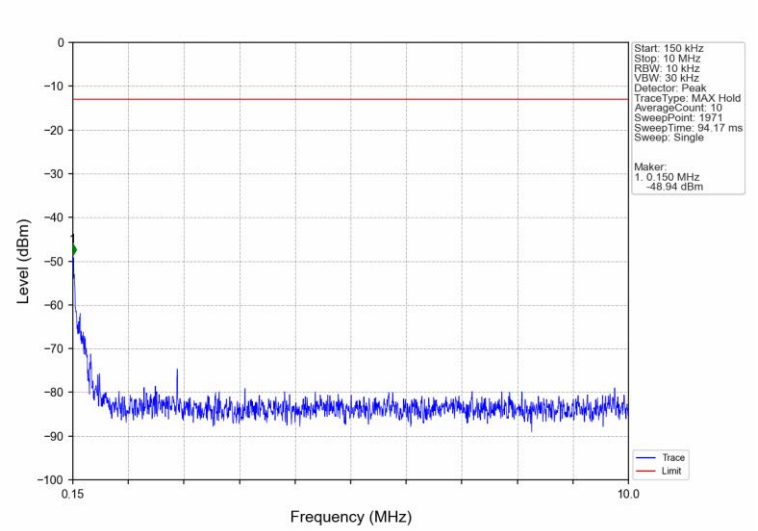


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-25.92	-13	Pass
698.9	699	0.03	/	2	698.994	-13.62	-13	Pass
699	702	0.03	/	/	/	/	/	/

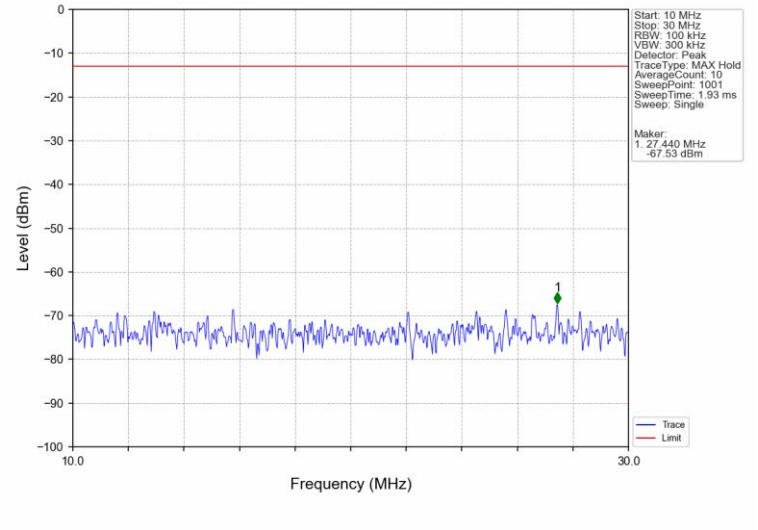
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



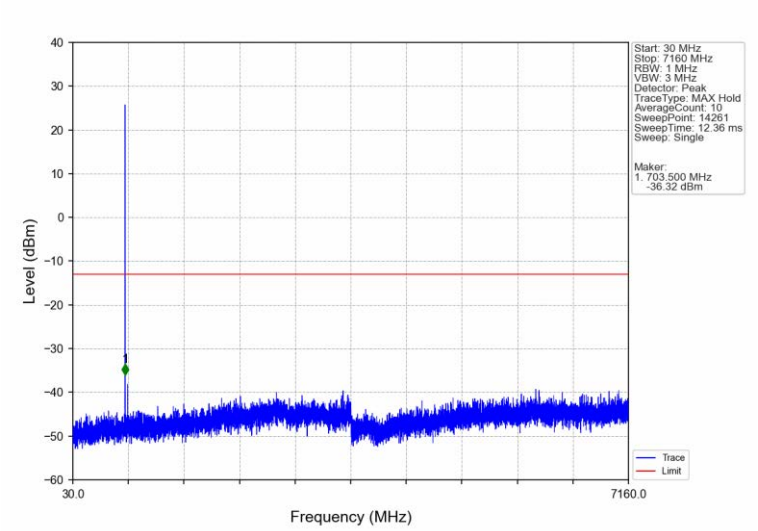
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



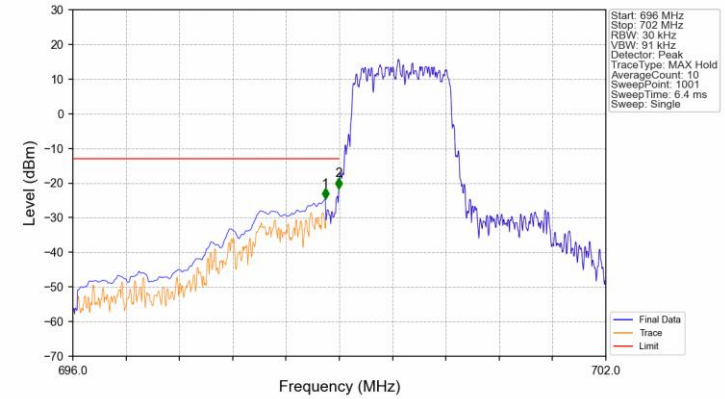
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

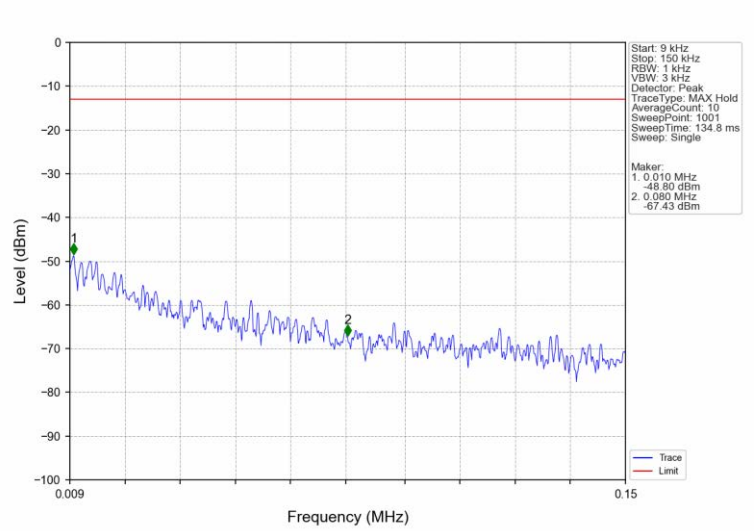


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

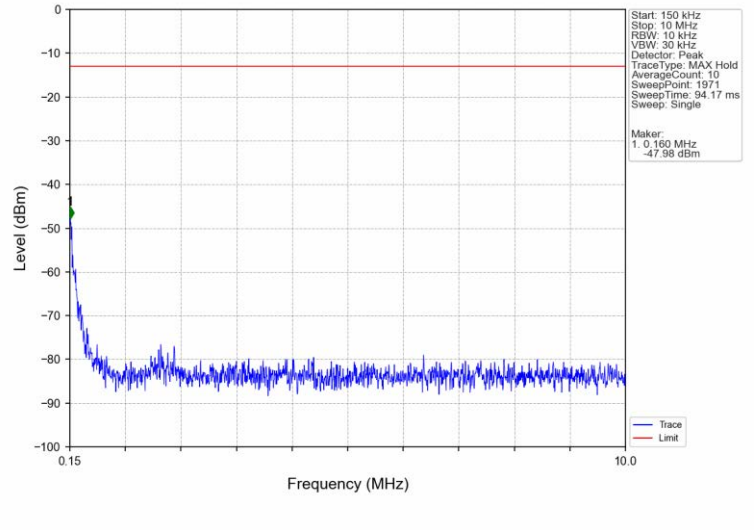


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-24.65	-13	Pass
698.9	699	0.03	/	2	698.994	-21.58	-13	Pass
699	702	0.03	/	/	/	/	/	/

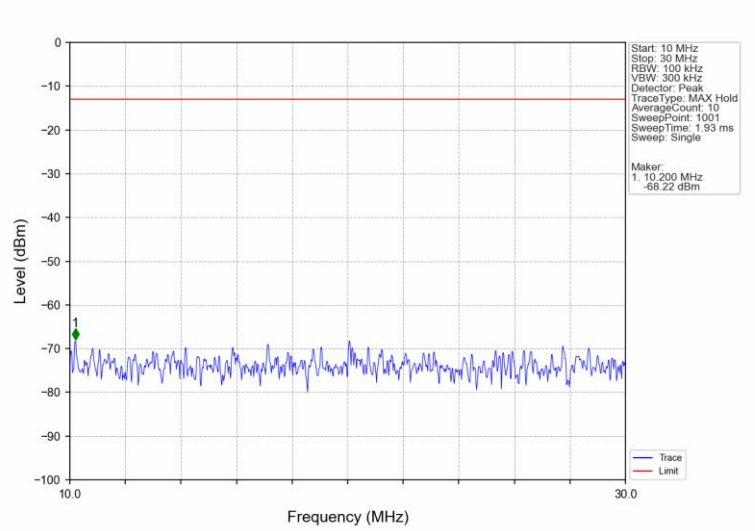
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



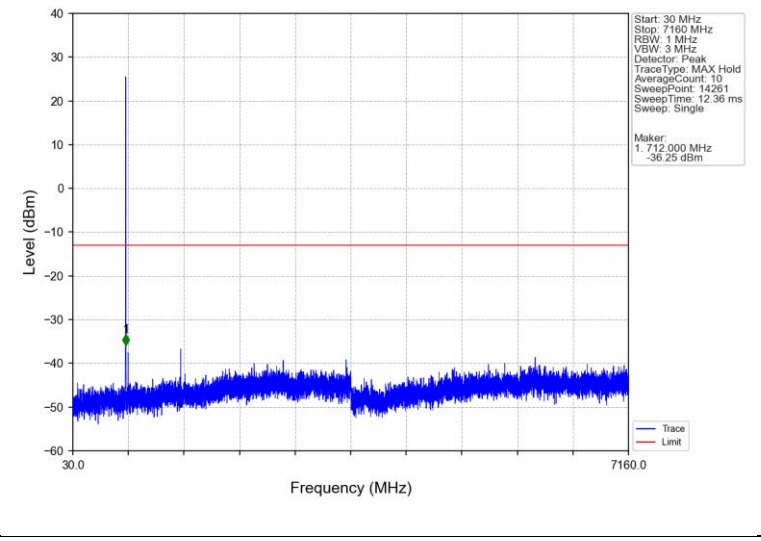
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



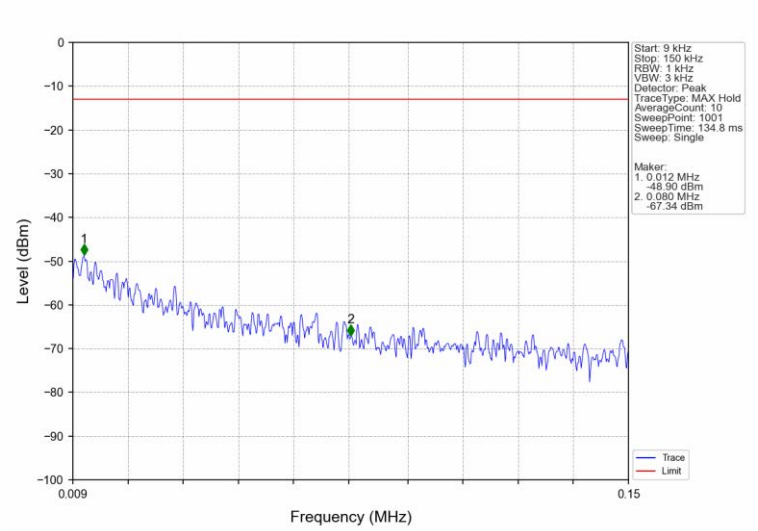
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



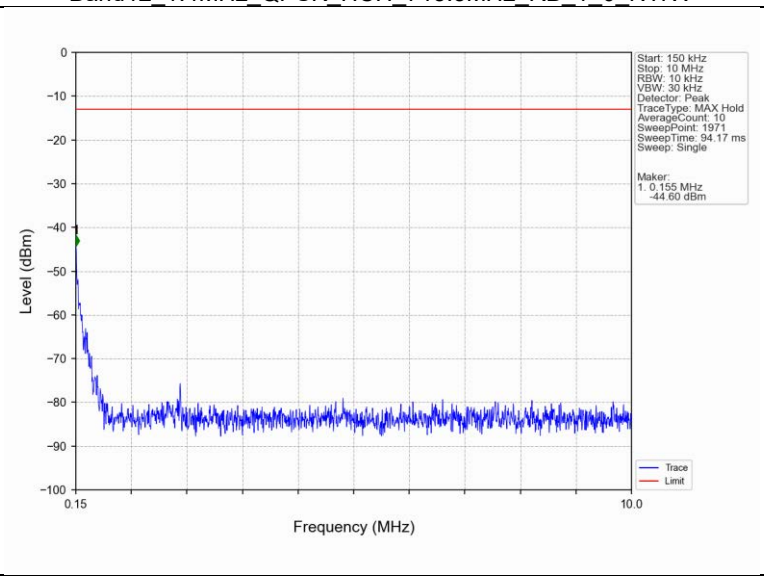
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



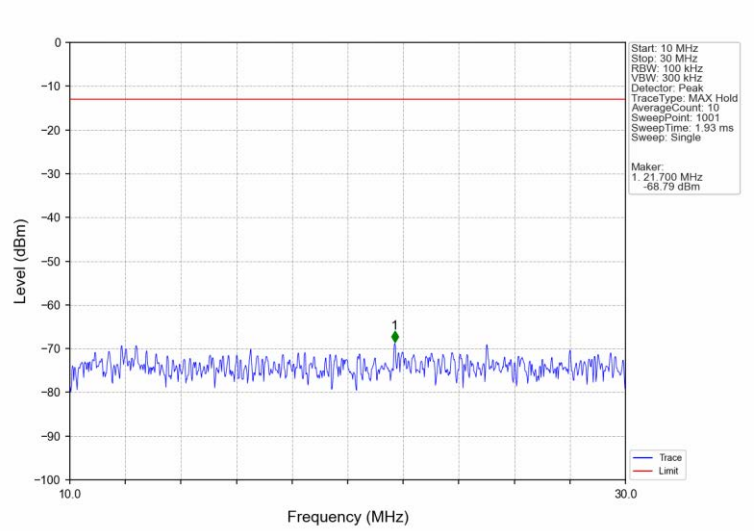
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



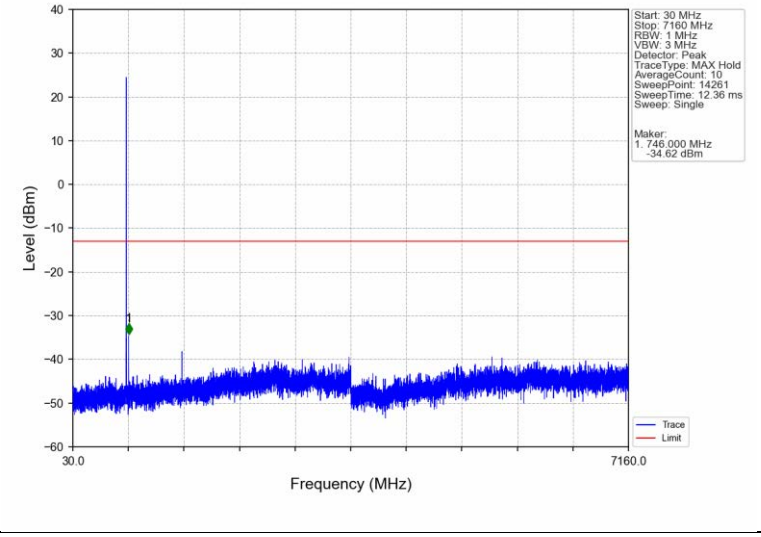
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



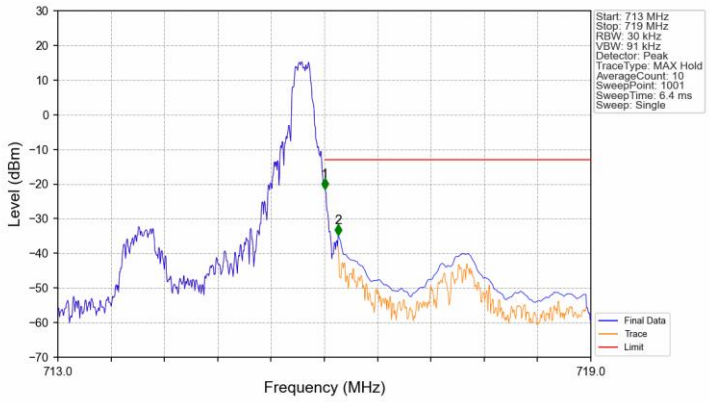
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

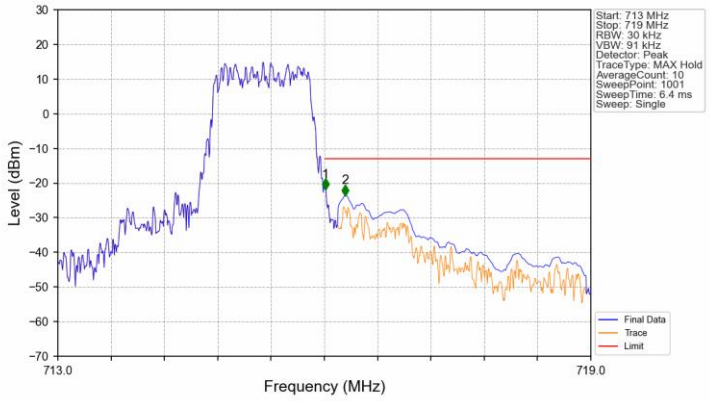


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



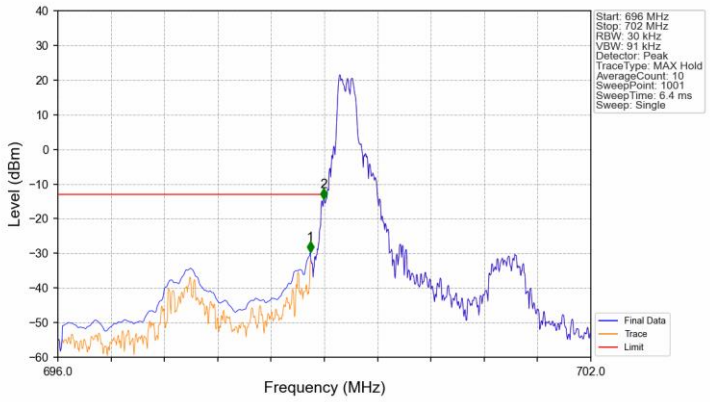
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-21.49	-13	Pass
716.1	719	0.1	CHP	2	716.156	-34.86	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



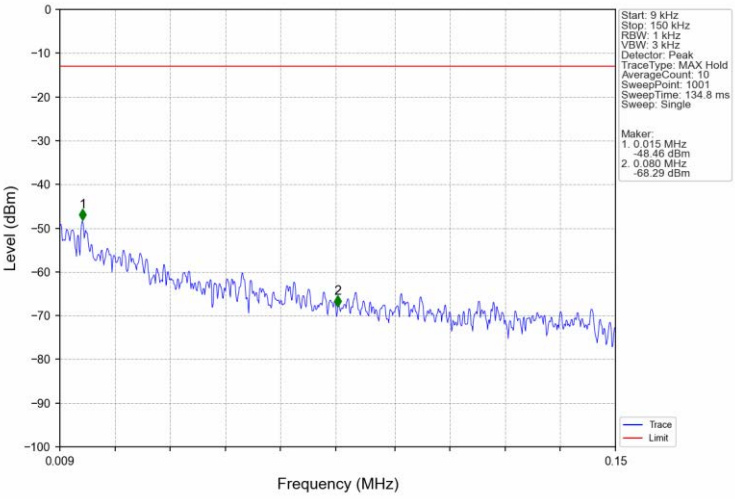
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-21.85	-13	Pass
716.1	719	0.1	CHP	2	716.234	-23.59	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

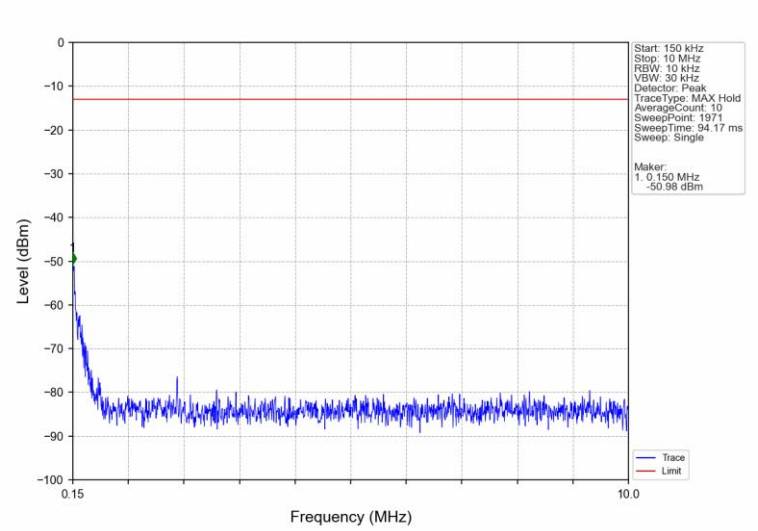


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-29.64	-13	Pass
698.9	699	0.03	/	2	698.994	-14.36	-13	Pass
699	702	0.03	/	/	/	/	/	/

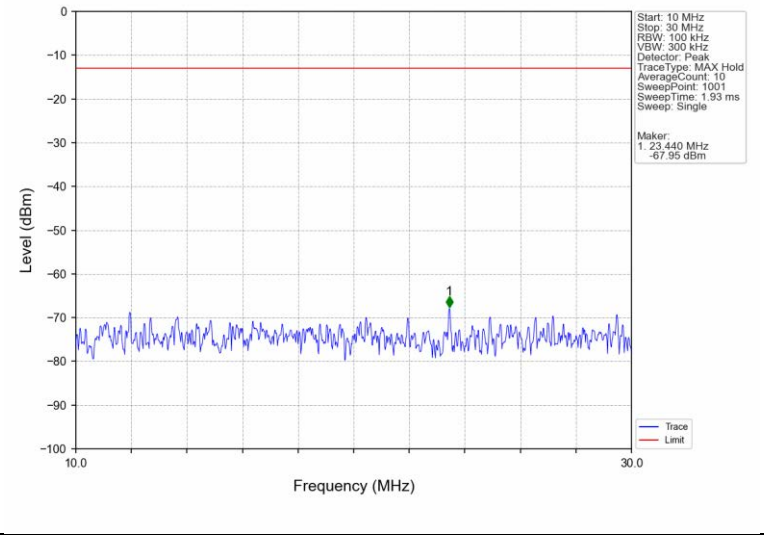
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



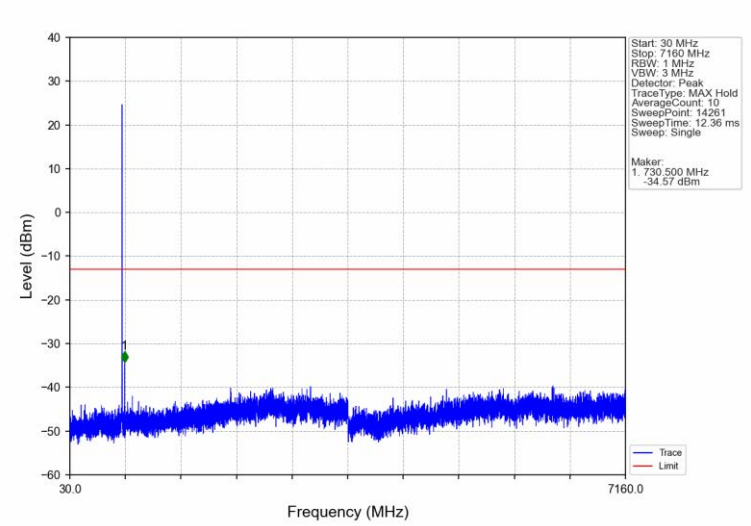
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



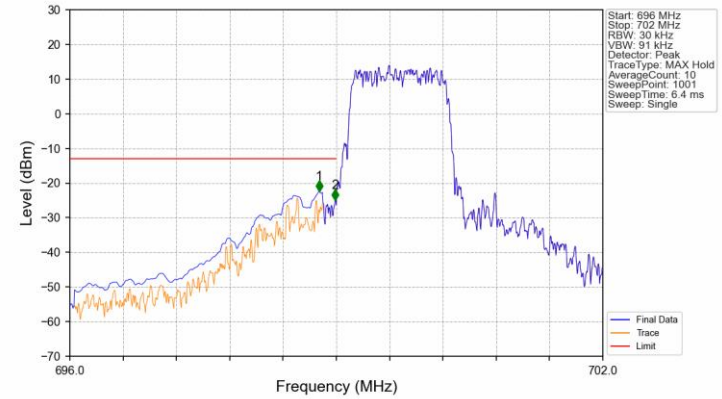
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

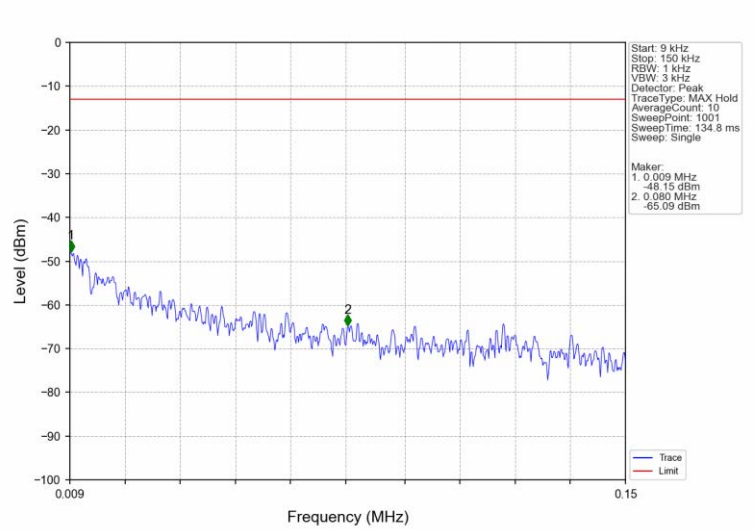


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

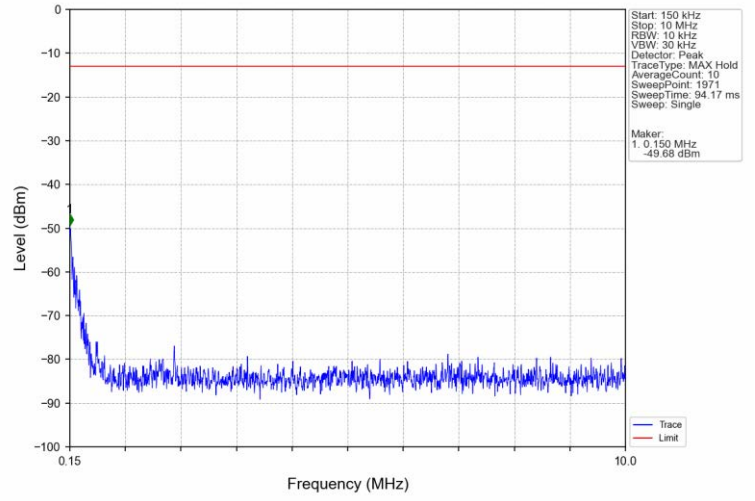


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.808	-22.44	-13	Pass
698.9	699	0.03	/	2	698.988	-24.93	-13	Pass
699	702	0.03	/	/	/	/	/	/

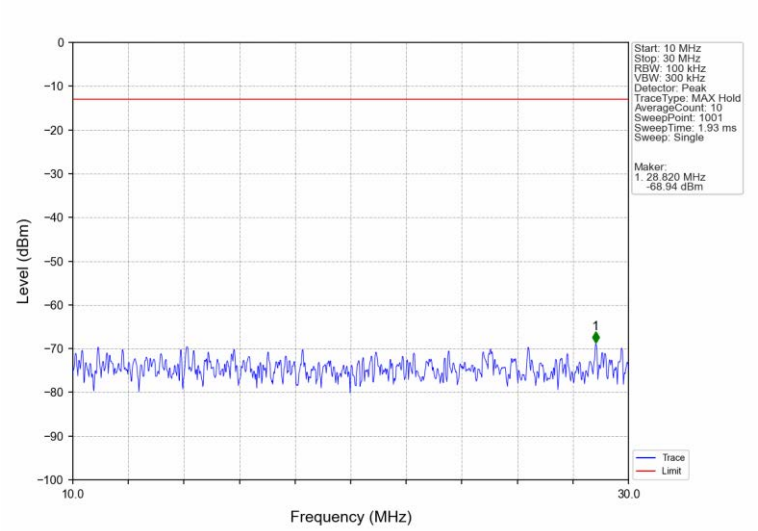
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



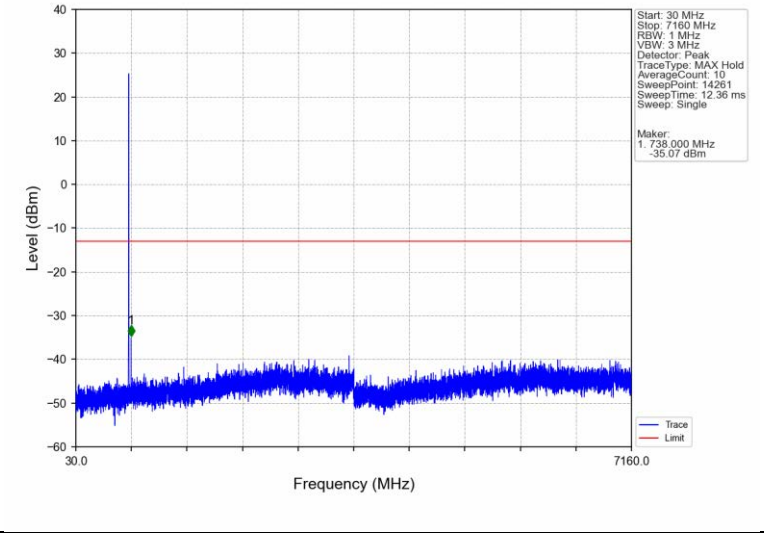
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



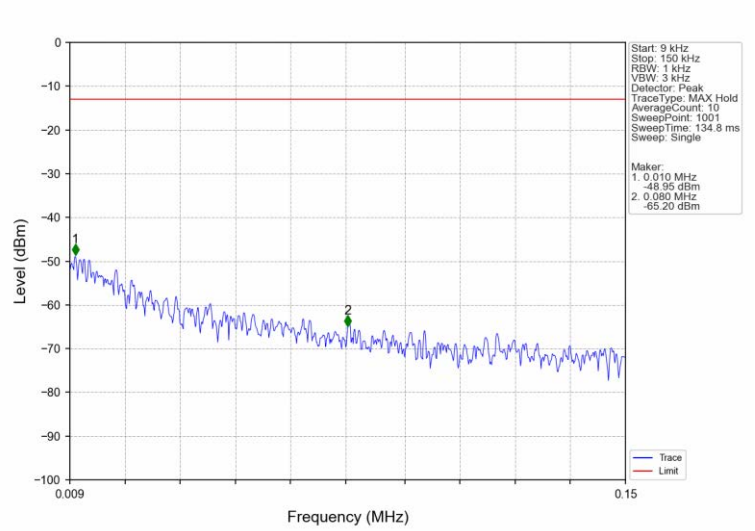
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



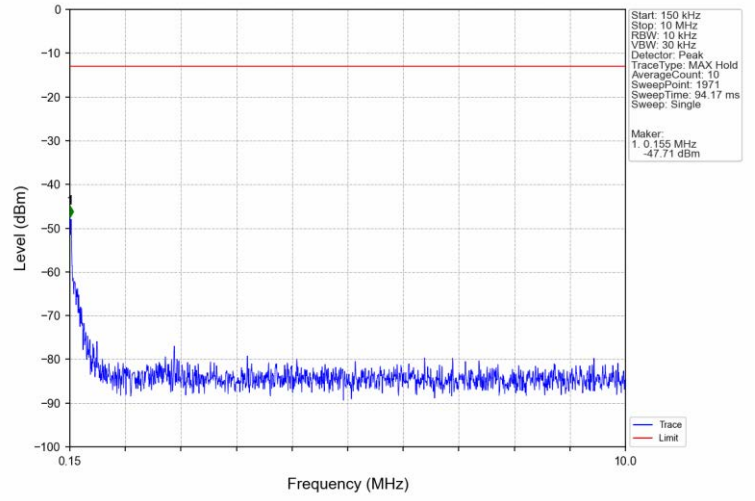
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



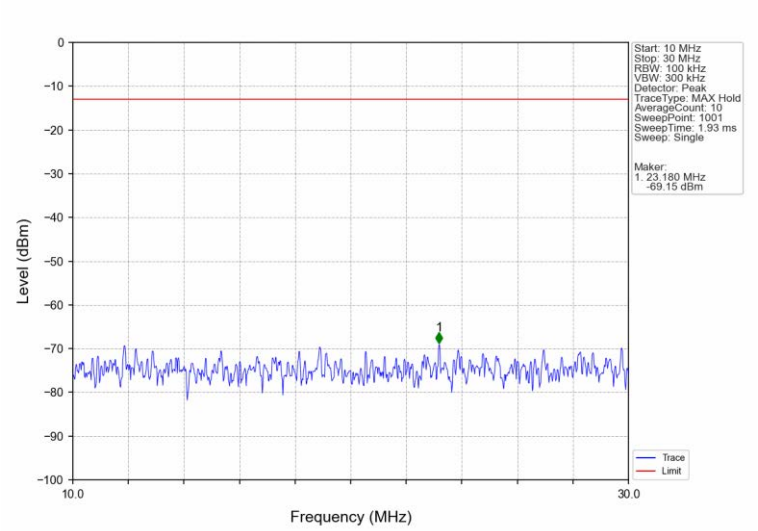
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



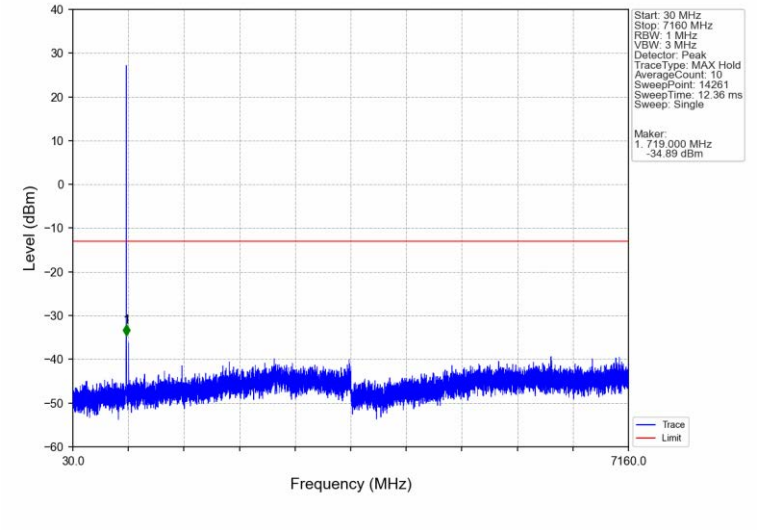
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



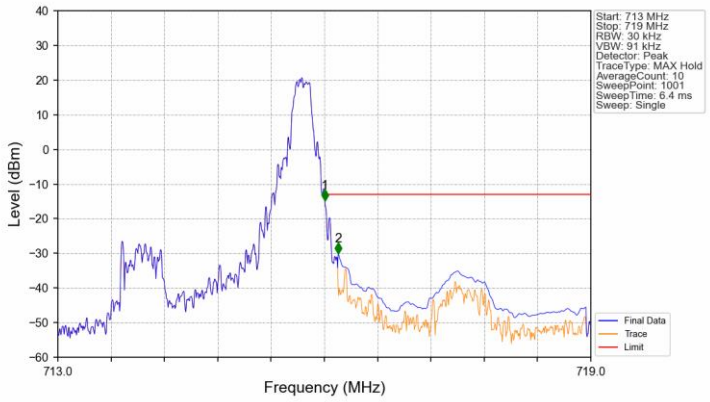
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

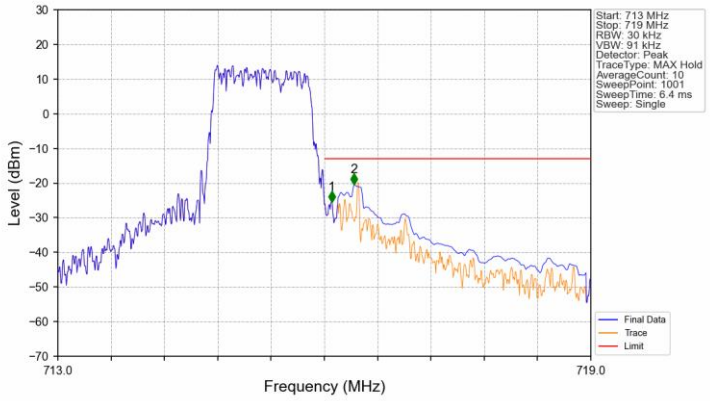


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-14.84	-13	Pass
716.1	719	0.1	CHP	2	716.156	-30.00	-13	Pass

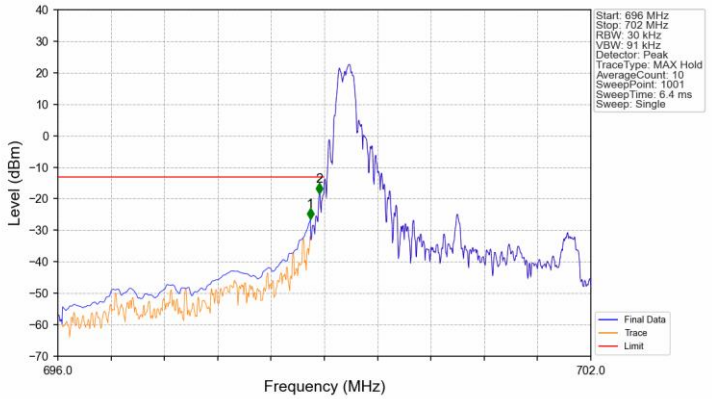
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.084	-25.50	-13	Pass
716.1	719	0.1	CHP	2	716.336	-20.47	-13	Pass

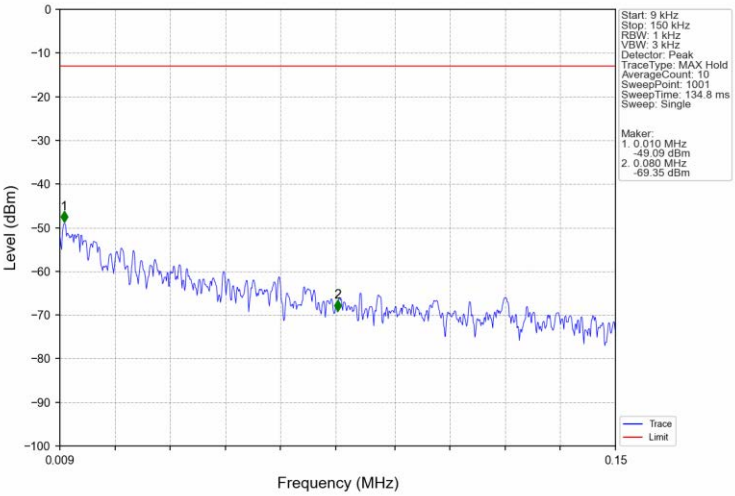
6.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

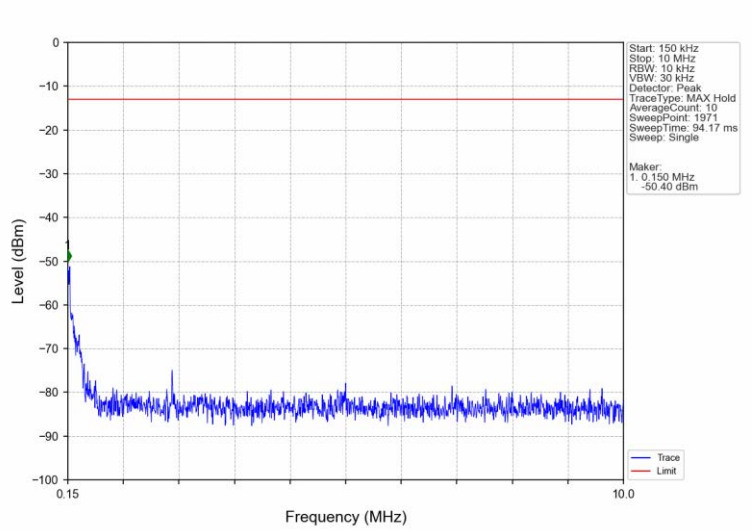


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.55	-13	Pass
698.9	699	0.03	/	2	698.946	-18.39	-13	Pass
699	702	0.03	/	/	/	/	/	/

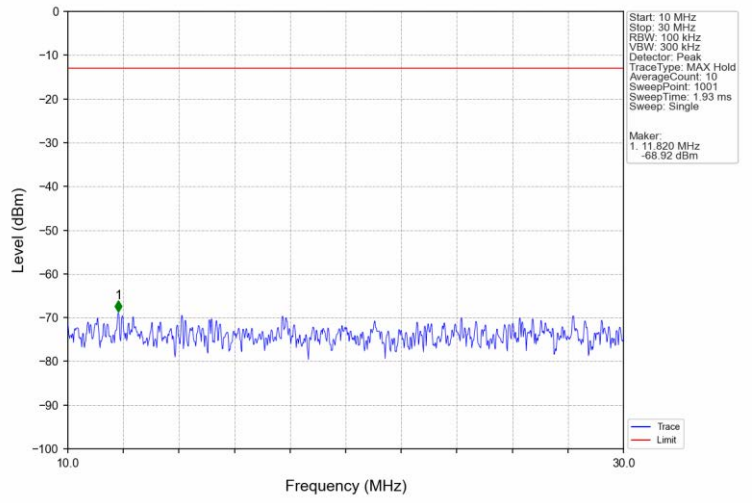
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



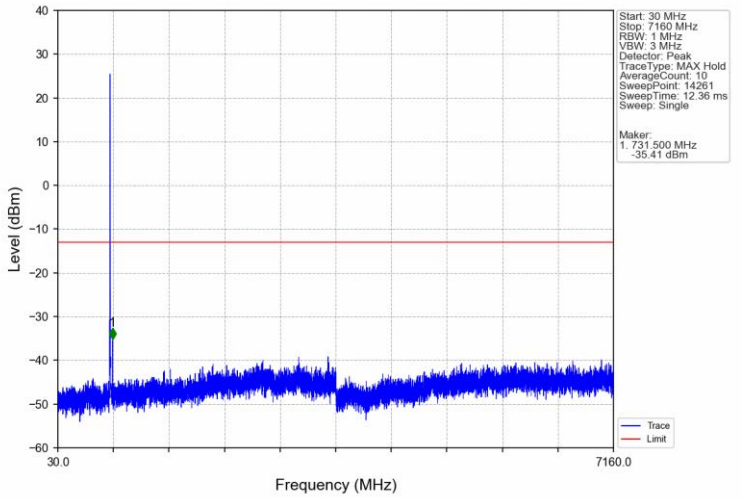
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



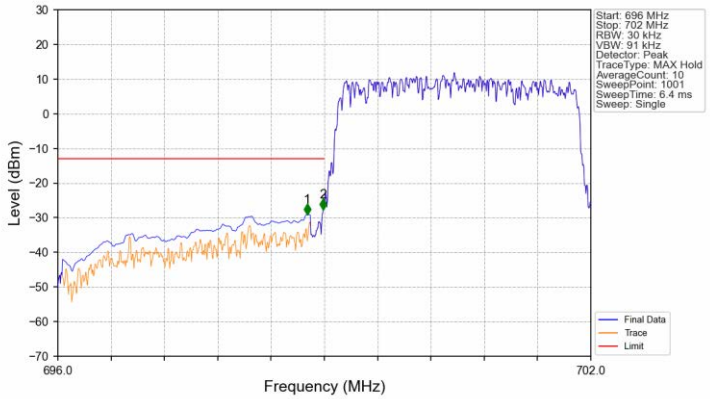
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

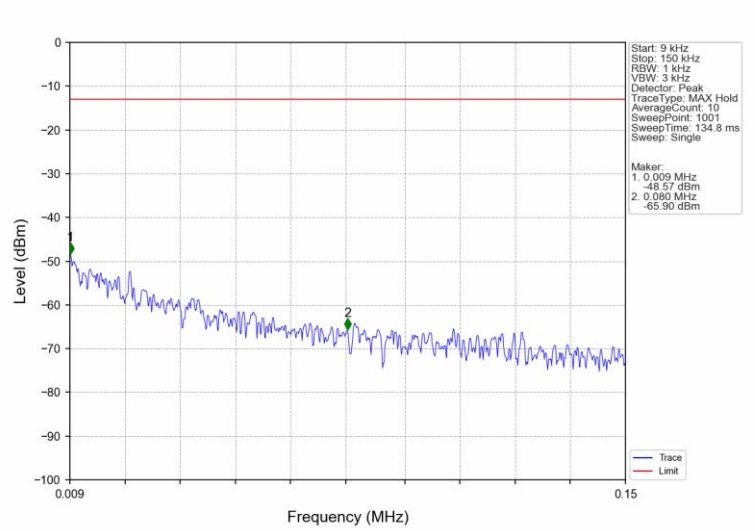


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

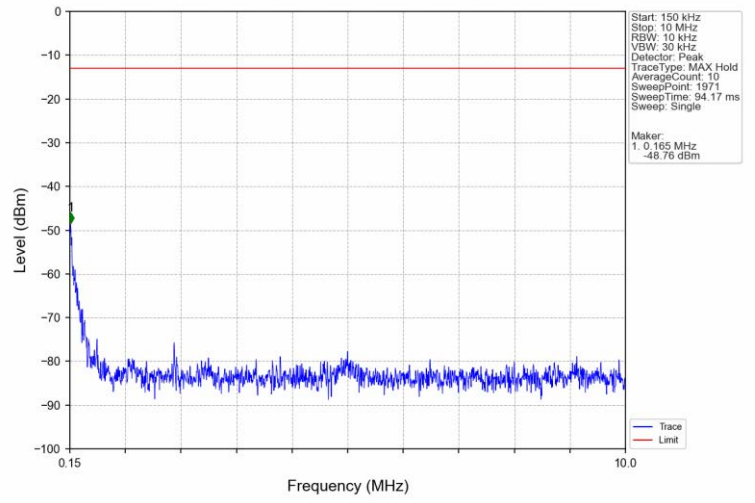


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.808	-29.12	-13	Pass
698.9	699	0.03	/	2	698.988	-27.68	-13	Pass
699	702	0.03	/	/	/	/	/	/

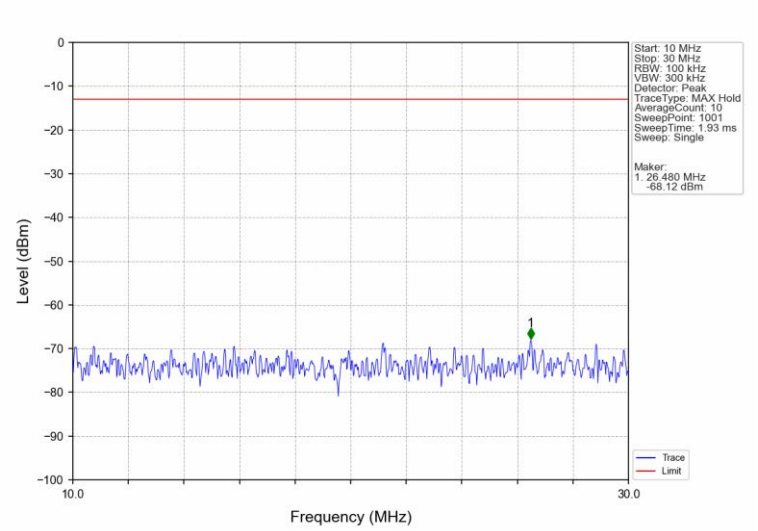
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



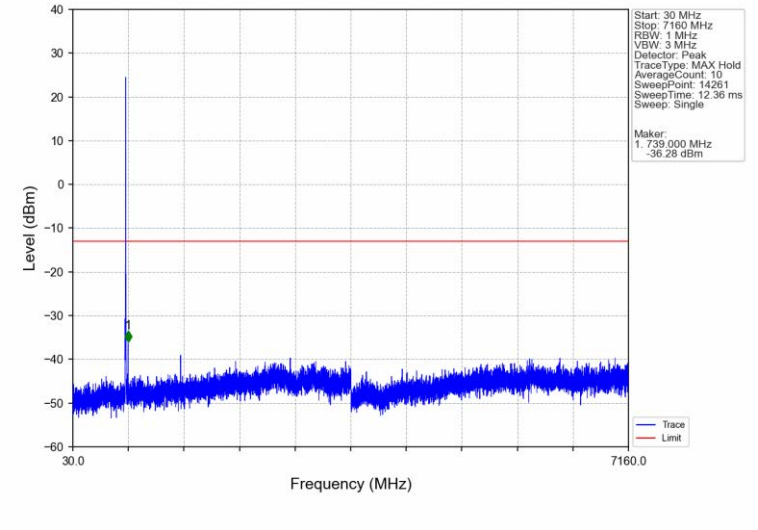
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



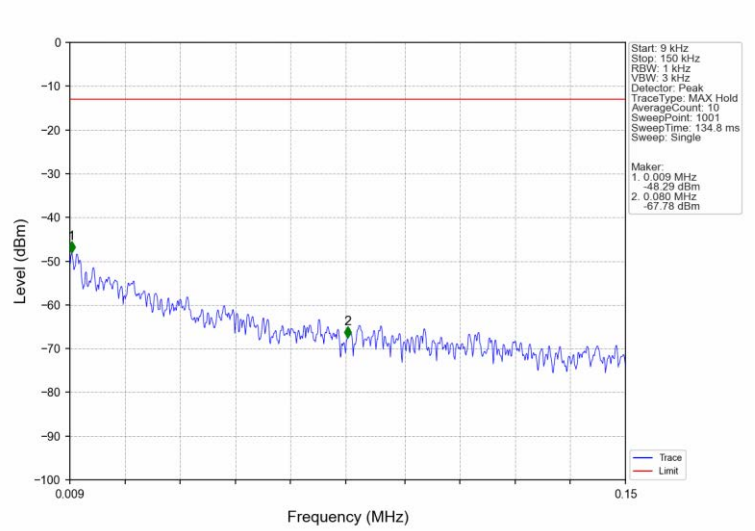
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



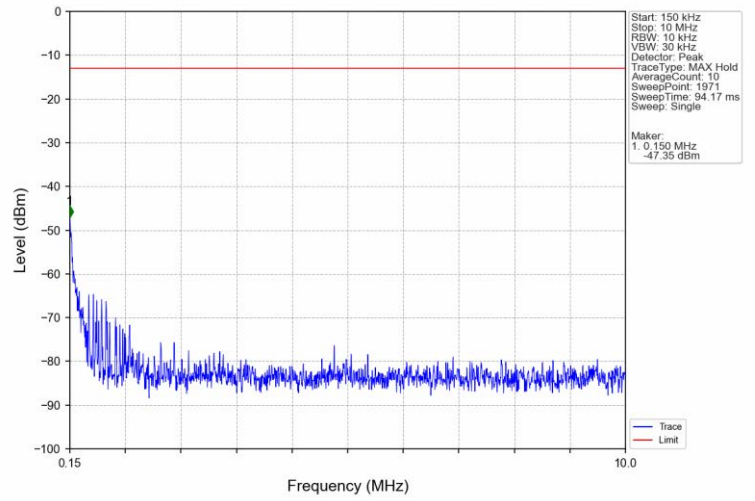
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



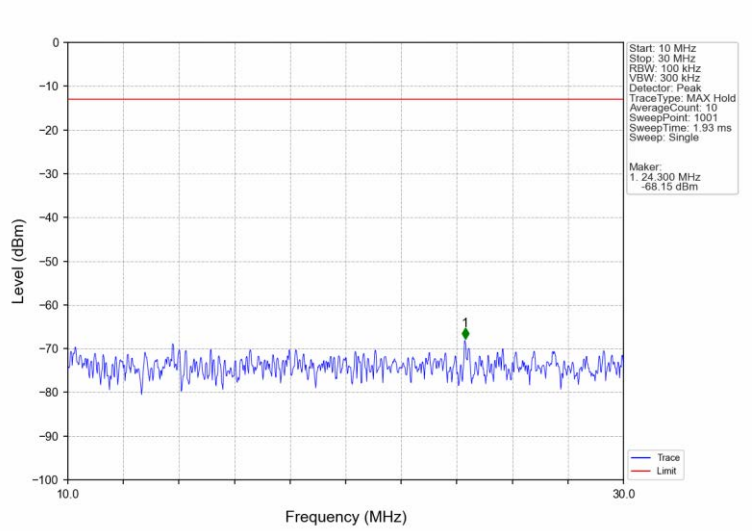
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



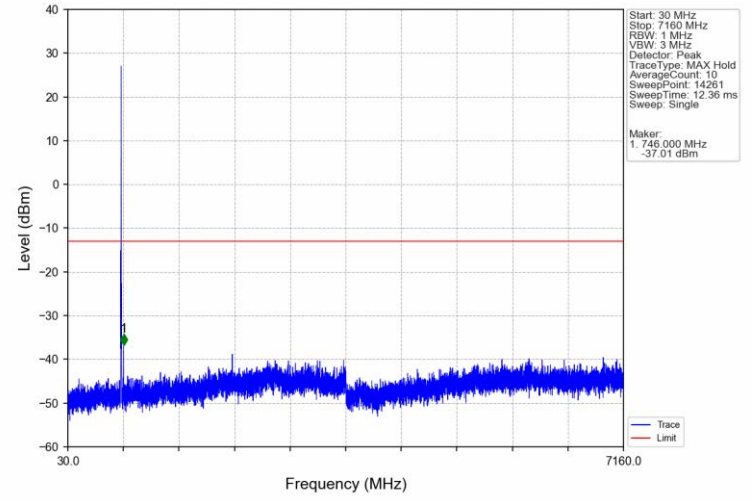
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



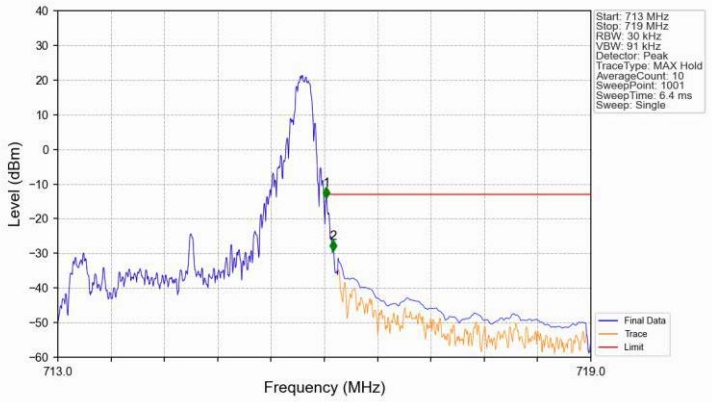
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

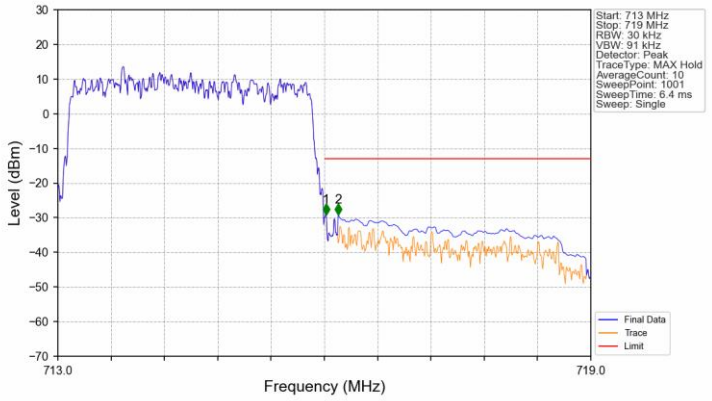


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



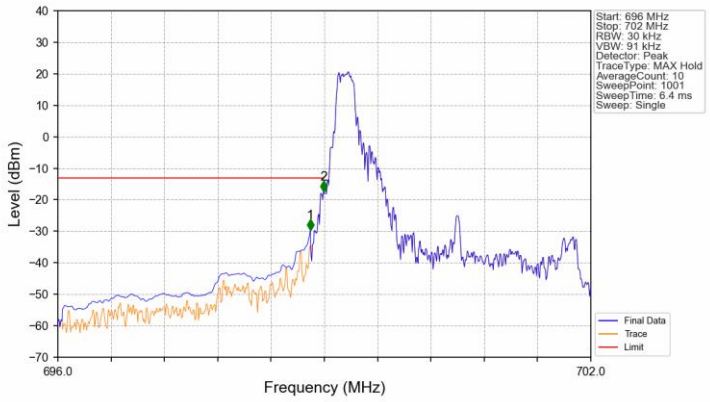
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-14.10	-13	Pass
716.1	719	0.1	CHP	2	716.102	-29.29	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



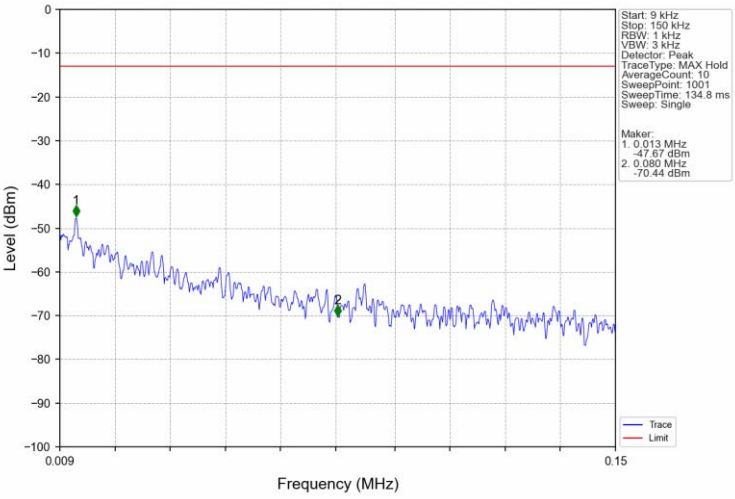
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-29.09	-13	Pass
716.1	719	0.1	CHP	2	716.156	-29.10	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

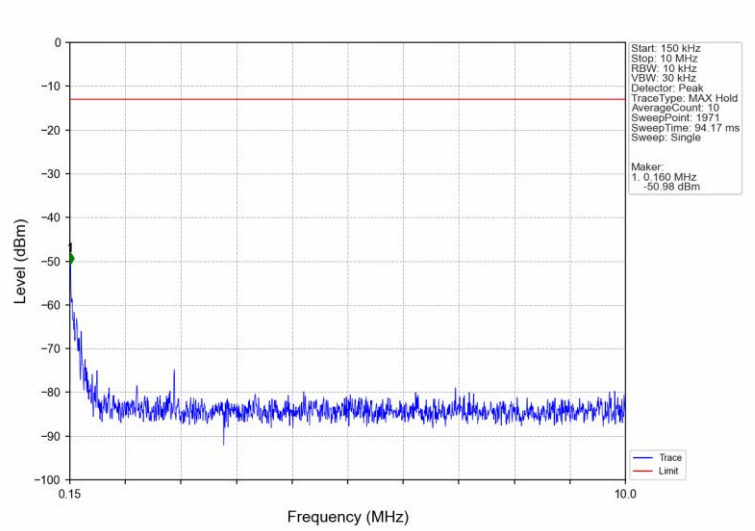


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-29.70	-13	Pass
698.9	699	0.03	/	2	698.994	-17.48	-13	Pass
699	702	0.03	/	/	/	/	/	/

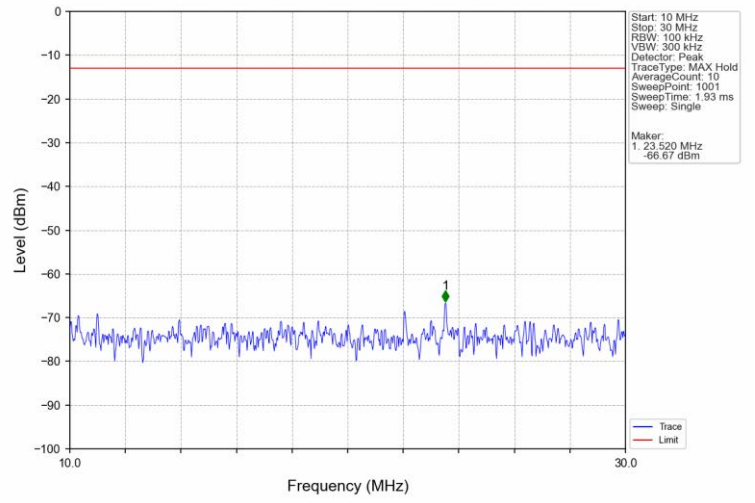
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



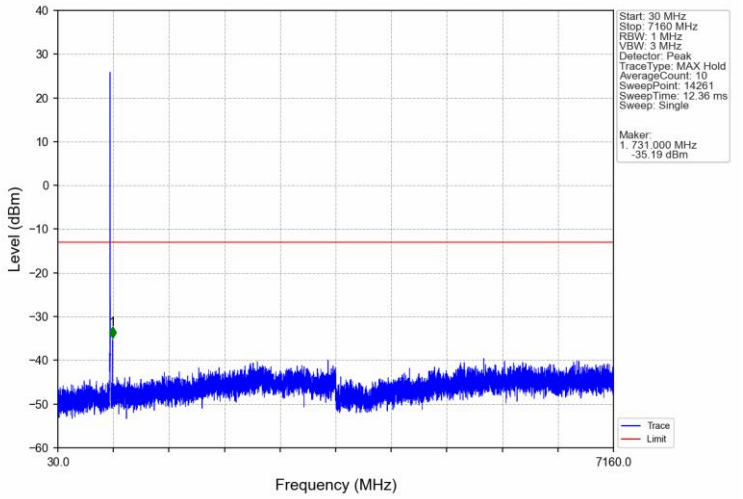
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



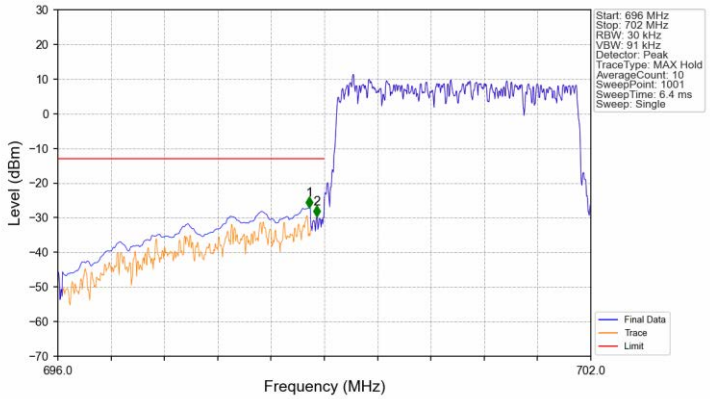
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

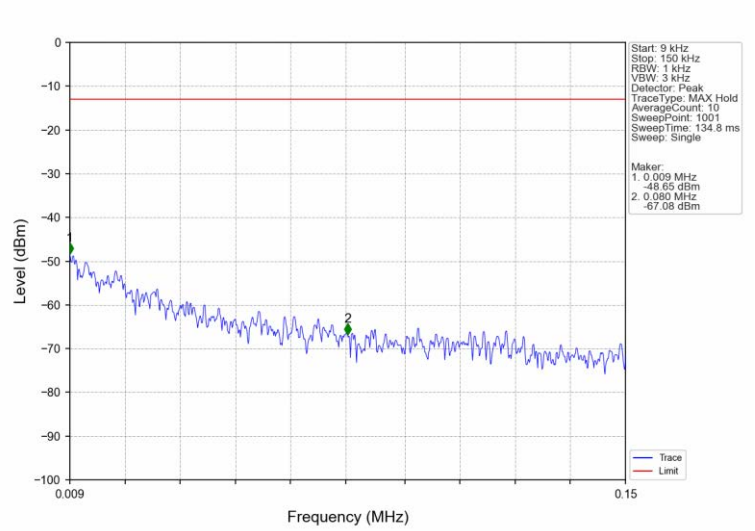


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

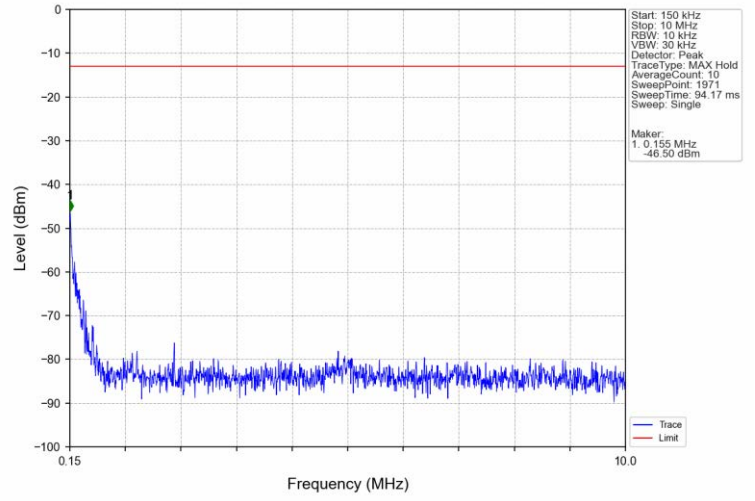


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.832	-27.09	-13	Pass
698.9	699	0.03	/	2	698.916	-29.73	-13	Pass
699	702	0.03	/	/	/	/	/	/

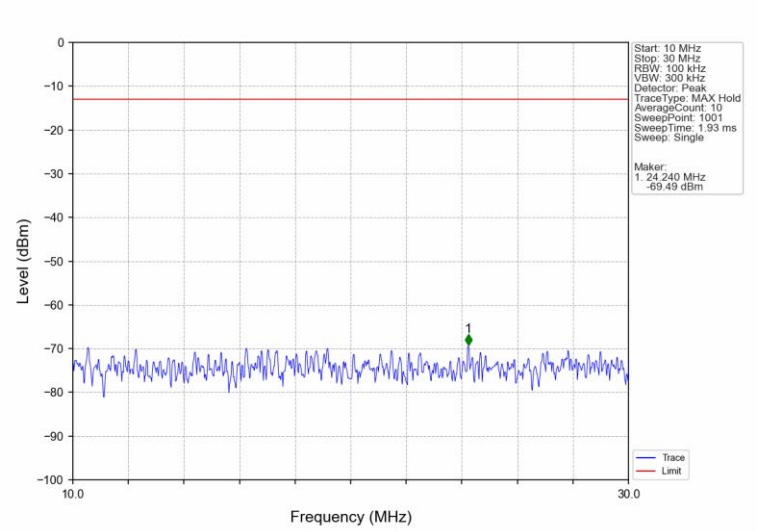
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



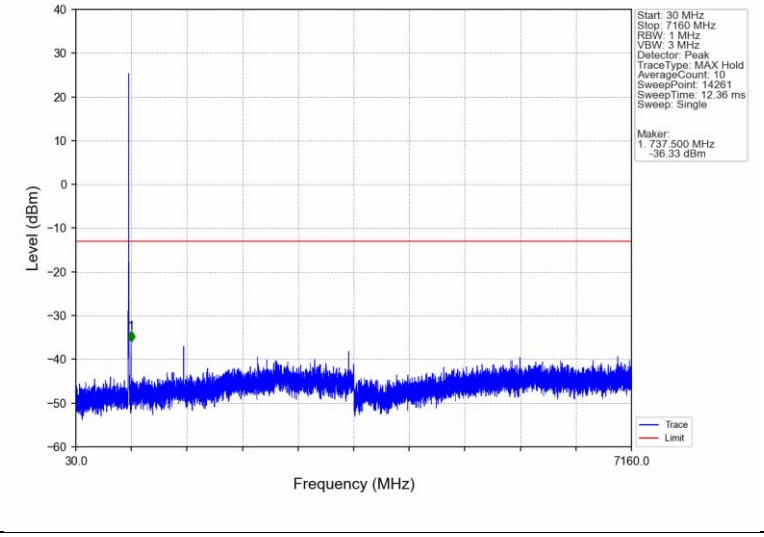
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



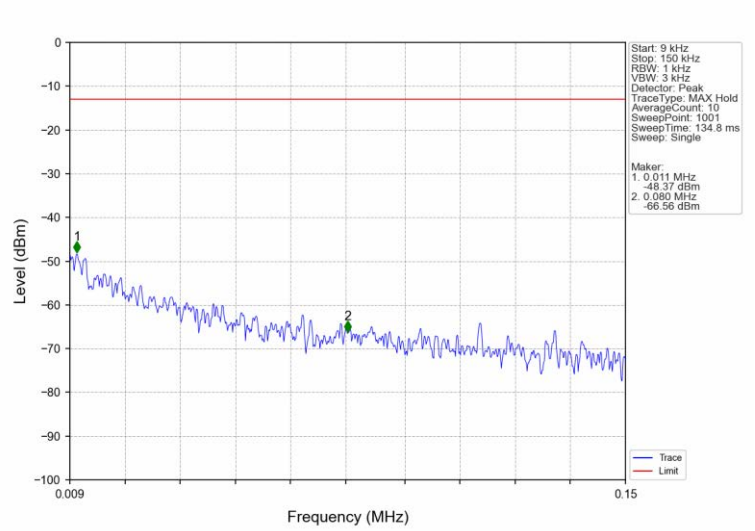
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



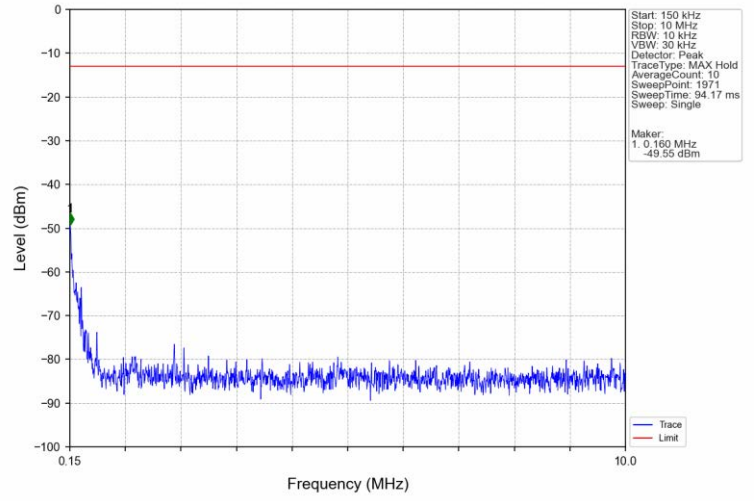
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



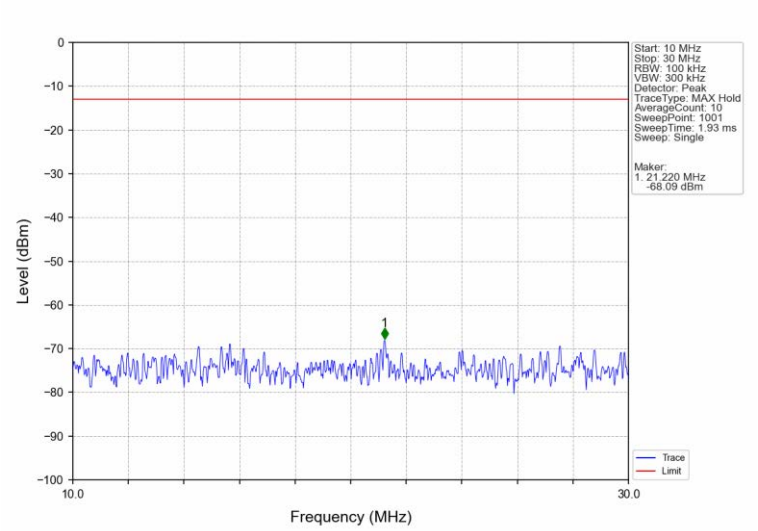
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV