1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	23.35	1.42	24.77	<=33.01	Pass
			13	23.43	1.42	24.85	<=33.01	Pass
			24	23.23	1.42	24.65	<=33.01	Pass
		12	0	22.32	1.42	23.74	<=33.01	Pass
			6	22.35	1.42	23.77	<=33.01	Pass
			13	22.30	1.42	23.72	<=33.01	Pass
		25	0	22.33	1.42	23.75	<=33.01	Pass
	2595	1	0	23.08	1.42	24.50	<=33.01	Pass
			13	23.17	1.42	24.59	<=33.01	Pass
			24	23.08	1.42	24.50	<=33.01	Pass
		12	0	22.22	1.42	23.64	<=33.01	Pass
			6	22.16	1.42	23.58	<=33.01	Pass
			13	22.11	1.42	23.53	<=33.01	Pass
		25	0	22.25	1.42	23.67	<=33.01	Pass
	2617.5	1	0	22.85	1.42	24.27	<=33.01	Pass
			13	23.24	1.42	24.66	<=33.01	Pass
			24	22.99	1.42	24.41	<=33.01	Pass
		12	0	22.01	1.42	23.43	<=33.01	Pass
			6	22.09	1.42	23.51	<=33.01	Pass
			13	22.15	1.42	23.57	<=33.01	Pass
		25	0	22.14	1.42	23.56	<=33.01	Pass
16QAM	2572.5	1	0	22.25	1.42	23.67	<=33.01	Pass
			13	22.46	1.42	23.88	<=33.01	Pass
			24	22.53	1.42	23.95	<=33.01	Pass
		12	0	21.37	1.42	22.79	<=33.01	Pass
			6	21.39	1.42	22.81	<=33.01	Pass
			13	21.33	1.42	22.75	<=33.01	Pass
		25	0	21.32	1.42	22.74	<=33.01	Pass
	2595	1	0	22.14	1.42	23.56	<=33.01	Pass
			13	22.27	1.42	23.69	<=33.01	Pass
			24	22.12	1.42	23.54	<=33.01	Pass
		12	0	21.10	1.42	22.52	<=33.01	Pass
			6	21.19	1.42	22.61	<=33.01	Pass
			13	21.13	1.42	22.55	<=33.01	Pass
		25	0	21.12	1.42	22.54	<=33.01	Pass
	2617.5	1	0	22.00	1.42	23.42	<=33.01	Pass
			13	22.23	1.42	23.65	<=33.01	Pass
			24	21.82	1.42	23.24	<=33.01	Pass
		12	0	21.15	1.42	22.57	<=33.01	Pass
			6	21.20	1.42	22.62	<=33.01	Pass
			13	21.05	1.42	22.47	<=33.01	Pass
		25	0	21.08	1.42	22.50	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	23.38	1.42	24.80	<=33.01	Pass
			25	23.53	1.42	24.95	<=33.01	Pass
			49	23.31	1.42	24.73	<=33.01	Pass
		25	0	22.34	1.42	23.76	<=33.01	Pass
			13	22.32	1.42	23.74	<=33.01	Pass
			25	22.38	1.42	23.80	<=33.01	Pass
		50	0	22.29	1.42	23.71	<=33.01	Pass
	2595	1	0	23.21	1.42	24.63	<=33.01	Pass
			25	23.48	1.42	24.90	<=33.01	Pass
			49	23.31	1.42	24.73	<=33.01	Pass
		25	0	22.24	1.42	23.66	<=33.01	Pass
			13	22.24	1.42	23.66	<=33.01	Pass
			25	22.13	1.42	23.55	<=33.01	Pass
		50	0	22.13	1.42	23.55	<=33.01	Pass
	2615	1	0	23.09	1.42	24.51	<=33.01	Pass
			25	23.34	1.42	24.76	<=33.01	Pass
			49	23.21	1.42	24.63	<=33.01	Pass
		25	0	22.06	1.42	23.48	<=33.01	Pass
			13	22.19	1.42	23.61	<=33.01	Pass
			25	22.05	1.42	23.47	<=33.01	Pass
		50	0	22.04	1.42	23.46	<=33.01	Pass
16QAM	2575	1	0	22.34	1.42	23.76	<=33.01	Pass
			25	22.62	1.42	24.04	<=33.01	Pass
			49	22.38	1.42	23.80	<=33.01	Pass
		25	0	21.34	1.42	22.76	<=33.01	Pass
			13	21.41	1.42	22.83	<=33.01	Pass
			25	21.35	1.42	22.77	<=33.01	Pass
		50	0	21.34	1.42	22.76	<=33.01	Pass
	2595	1	0	21.84	1.42	23.26	<=33.01	Pass
			25	22.30	1.42	23.72	<=33.01	Pass
			49	22.11	1.42	23.53	<=33.01	Pass
		25	0	21.23	1.42	22.65	<=33.01	Pass
			13	21.18	1.42	22.60	<=33.01	Pass
			25	21.17	1.42	22.59	<=33.01	Pass
		50	0	21.23	1.42	22.65	<=33.01	Pass
	2615	1	0	21.95	1.42	23.37	<=33.01	Pass
			25	22.10	1.42	23.52	<=33.01	Pass
			49	21.87	1.42	23.29	<=33.01	Pass
		25	0	21.11	1.42	22.53	<=33.01	Pass
			13	21.18	1.42	22.60	<=33.01	Pass
			25	21.11	1.42	22.53	<=33.01	Pass
		50	0	21.13	1.42	22.55	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	23.35	1.42	24.77	<=33.01	Pass
			38	23.30	1.42	24.72	<=33.01	Pass
			74	23.29	1.42	24.71	<=33.01	Pass
		36	0	22.37	1.42	23.79	<=33.01	Pass
			18	22.38	1.42	23.80	<=33.01	Pass
			39	22.35	1.42	23.77	<=33.01	Pass
		75	0	22.27	1.42	23.69	<=33.01	Pass

	2595	1	0	23.19	1.42	24.61	<=33.01	Pass
			38	23.24	1.42	24.66	<=33.01	Pass
			74	23.11	1.42	24.53	<=33.01	Pass
		36	0	22.14	1.42	23.56	<=33.01	Pass
			18	22.16	1.42	23.58	<=33.01	Pass
			39	22.12	1.42	23.54	<=33.01	Pass
		75	0	22.13	1.42	23.55	<=33.01	Pass
	2612.5	1	0	23.11	1.42	24.53	<=33.01	Pass
			38	23.22	1.42	24.64	<=33.01	Pass
			74	23.08	1.42	24.50	<=33.01	Pass
		36	0	22.05	1.42	23.47	<=33.01	Pass
			18	22.07	1.42	23.49	<=33.01	Pass
			39	22.05	1.42	23.47	<=33.01	Pass
		75	0	22.06	1.42	23.48	<=33.01	Pass
16QAM	2577.5	1	0	22.11	1.42	23.53	<=33.01	Pass
			38	22.16	1.42	23.58	<=33.01	Pass
			74	22.06	1.42	23.48	<=33.01	Pass
		36	0	21.27	1.42	22.69	<=33.01	Pass
			18	21.30	1.42	22.72	<=33.01	Pass
			39	21.33	1.42	22.75	<=33.01	Pass
		75	0	21.30	1.42	22.72	<=33.01	Pass
	2595	1	0	21.96	1.42	23.38	<=33.01	Pass
			38	22.17	1.42	23.59	<=33.01	Pass
			74	21.89	1.42	23.31	<=33.01	Pass
		36	0	21.15	1.42	22.57	<=33.01	Pass
			18	21.16	1.42	22.58	<=33.01	Pass
			39	21.13	1.42	22.55	<=33.01	Pass
		75	0	21.16	1.42	22.58	<=33.01	Pass
	2612.5	1	0	21.88	1.42	23.30	<=33.01	Pass
			38	21.93	1.42	23.35	<=33.01	Pass
			74	22.27	1.42	23.69	<=33.01	Pass
		36	0	21.02	1.42	22.44	<=33.01	Pass
			18	21.08	1.42	22.50	<=33.01	Pass
			39	21.00	1.42	22.42	<=33.01	Pass
		75	0	21.18	1.42	22.60	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	23.07	1.42	24.49	<=33.01	Pass
			50	23.48	1.42	24.90	<=33.01	Pass
			99	23.63	1.42	25.05	<=33.01	Pass
		50	0	22.30	1.42	23.72	<=33.01	Pass
			25	22.24	1.42	23.66	<=33.01	Pass
			50	22.28	1.42	23.70	<=33.01	Pass
		100	0	22.26	1.42	23.68	<=33.01	Pass
	2595	1	0	22.88	1.42	24.30	<=33.01	Pass
			50	23.13	1.42	24.55	<=33.01	Pass
			99	23.52	1.42	24.94	<=33.01	Pass
		50	0	22.06	1.42	23.48	<=33.01	Pass
			25	22.18	1.42	23.60	<=33.01	Pass
			50	22.05	1.42	23.47	<=33.01	Pass
		100	0	22.14	1.42	23.56	<=33.01	Pass
	2610	1	0	22.96	1.42	24.38	<=33.01	Pass
			50	23.23	1.42	24.65	<=33.01	Pass

			99	23.39	1.42	24.81	<=33.01	Pass
		50	0	22.08	1.42	23.50	<=33.01	Pass
			25	22.12	1.42	23.54	<=33.01	Pass
			50	21.98	1.42	23.40	<=33.01	Pass
		100	0	22.09	1.42	23.51	<=33.01	Pass
16QAM	2580	1	0	22.13	1.42	23.55	<=33.01	Pass
			50	22.46	1.42	23.88	<=33.01	Pass
			99	22.82	1.42	24.24	<=33.01	Pass
		50	0	21.29	1.42	22.71	<=33.01	Pass
			25	21.34	1.42	22.76	<=33.01	Pass
			50	21.22	1.42	22.64	<=33.01	Pass
		100	0	21.22	1.42	22.64	<=33.01	Pass
	2595	1	0	22.05	1.42	23.47	<=33.01	Pass
			50	22.31	1.42	23.73	<=33.01	Pass
			99	22.42	1.42	23.84	<=33.01	Pass
		50	0	21.14	1.42	22.56	<=33.01	Pass
			25	21.20	1.42	22.62	<=33.01	Pass
			50	21.08	1.42	22.50	<=33.01	Pass
		100	0	21.12	1.42	22.54	<=33.01	Pass
	2610	1	0	21.62	1.42	23.04	<=33.01	Pass
			50	21.82	1.42	23.24	<=33.01	Pass
			99	22.40	1.42	23.82	<=33.01	Pass
		50	0	20.99	1.42	22.41	<=33.01	Pass
			25	21.14	1.42	22.56	<=33.01	Pass
			50	21.12	1.42	22.54	<=33.01	Pass
		100	0	21.03	1.42	22.45	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.27	-28.911	-0.0112	-2.5 to 2.5	Pass
					3.85	-27.881	-0.0108	-2.5 to 2.5	Pass
					4.43	-23.446	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-29.626	-0.0115	-2.5 to 2.5	Pass
				-20	3.85	-26.236	-0.0102	-2.5 to 2.5	Pass
				-10	3.85	-24.233	-0.0094	-2.5 to 2.5	Pass
				0	3.85	-26.350	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-30.055	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-28.396	-0.0110	-2.5 to 2.5	Pass
				40	3.85	-31.099	-0.0121	-2.5 to 2.5	Pass
				50	3.85	-35.391	-0.0138	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-13.962	-0.0054	-2.5 to 2.5	Pass
					3.85	-19.484	-0.0075	-2.5 to 2.5	Pass
					4.43	-12.875	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-11.258	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-13.604	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-30.026	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-15.063	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-32.659	-0.0126	-2.5 to 2.5	Pass

				30	3.85	-26.851	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-11.773	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-27.967	-0.0108	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	0.958	0.0004	-2.5 to 2.5	Pass
					3.85	-12.288	-0.0047	-2.5 to 2.5	Pass
					4.43	2.575	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-11.015	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	2.646	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-4.649	-0.0018	-2.5 to 2.5	Pass
				0	3.85	8.769	0.0034	-2.5 to 2.5	Pass
				10	3.85	12.918	0.0049	-2.5 to 2.5	Pass
				30	3.85	8.197	0.0031	-2.5 to 2.5	Pass
				40	3.85	-9.871	-0.0038	-2.5 to 2.5	Pass
				50	3.85	8.726	0.0033	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.27	-29.025	-0.0113	-2.5 to 2.5	Pass
					3.85	-28.725	-0.0112	-2.5 to 2.5	Pass
					4.43	-31.915	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-26.579	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-33.402	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-34.103	-0.0133	-2.5 to 2.5	Pass
				0	3.85	-47.679	-0.0185	-2.5 to 2.5	Pass
				10	3.85	-49.424	-0.0192	-2.5 to 2.5	Pass
				30	3.85	-44.489	-0.0173	-2.5 to 2.5	Pass
				40	3.85	-47.879	-0.0186	-2.5 to 2.5	Pass
				50	3.85	-50.211	-0.0195	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-11.444	-0.0044	-2.5 to 2.5	Pass
					3.85	-10.915	-0.0042	-2.5 to 2.5	Pass
					4.43	-25.163	-0.0097	-2.5 to 2.5	Pass
				-30	3.85	-10.200	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-4.392	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-19.240	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-14.033	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-13.976	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-6.623	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-1.416	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-27.151	-0.0105	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	10.157	0.0039	-2.5 to 2.5	Pass
					3.85	-0.057	0.0000	-2.5 to 2.5	Pass
					4.43	5.422	0.0021	-2.5 to 2.5	Pass
				-30	3.85	-7.138	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	10.858	0.0041	-2.5 to 2.5	Pass
				0	3.85	7.782	0.0030	-2.5 to 2.5	Pass
				10	3.85	4.063	0.0016	-2.5 to 2.5	Pass
				30	3.85	13.361	0.0051	-2.5 to 2.5	Pass
				40	3.85	12.388	0.0047	-2.5 to 2.5	Pass
				50	3.85	11.601	0.0044	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	3.27	-10.228	-0.0040	-2.5 to 2.5	Pass
					3.85	-11.144	-0.0043	-2.5 to 2.5	Pass
					4.43	-4.978	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.232	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-11.158	-0.0043	-2.5 to 2.5	Pass

				-10	3.85	-7.410	-0.0029	-2.5 to 2.5	Pass
				0	3.85	3.262	0.0013	-2.5 to 2.5	Pass
				10	3.85	-3.033	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-20.843	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-11.158	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-11.759	-0.0046	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-10.099	-0.0039	-2.5 to 2.5	Pass
					3.85	-5.722	-0.0022	-2.5 to 2.5	Pass
					4.43	-4.935	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-7.238	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-8.240	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-7.739	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-15.893	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-4.234	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-3.319	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-7.639	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-5.550	-0.0021	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	3.934	0.0015	-2.5 to 2.5	Pass
					3.85	-7.753	-0.0030	-2.5 to 2.5	Pass
					4.43	-12.159	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-7.968	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-9.928	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-18.554	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-14.405	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-13.776	-0.0053	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.27	-11.830	-0.0046	-2.5 to 2.5	Pass
					3.85	4.635	0.0018	-2.5 to 2.5	Pass
					4.43	-6.652	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-5.836	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-5.836	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-1.888	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-18.668	-0.0072	-2.5 to 2.5	Pass
				30	3.85	-7.882	-0.0031	-2.5 to 2.5	Pass
				40	3.85	4.406	0.0017	-2.5 to 2.5	Pass
				50	3.85	-16.465	-0.0064	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-3.061	-0.0012	-2.5 to 2.5	Pass
					3.85	-12.274	-0.0047	-2.5 to 2.5	Pass
					4.43	-1.030	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-16.022	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-10.843	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-6.366	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.749	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-5.193	-0.0020	-2.5 to 2.5	Pass
				40	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				50	3.85	-7.567	-0.0029	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-1.431	-0.0005	-2.5 to 2.5	Pass
					3.85	-7.868	-0.0030	-2.5 to 2.5	Pass
					4.43	-8.211	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	1.330	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-11.373	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-15.235	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-4.435	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-14.491	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0018	-2.5 to 2.5	Pass

				40	3.85	-13.890	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-15.678	-0.0060	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.27	-18.182	-0.0071	-2.5 to 2.5	Pass
					3.85	-12.217	-0.0047	-2.5 to 2.5	Pass
					4.43	-4.706	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-17.810	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-12.059	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-2.203	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-11.587	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-9.785	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-4.277	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-7.110	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-10.657	-0.0041	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-8.898	-0.0034	-2.5 to 2.5	Pass
					3.85	-9.656	-0.0037	-2.5 to 2.5	Pass
					4.43	-11.187	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-4.277	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-7.739	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-11.916	-0.0046	-2.5 to 2.5	Pass
				0	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				10	3.85	-17.424	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-11.802	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-8.941	-0.0034	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-15.836	-0.0061	-2.5 to 2.5	Pass
					3.85	0.086	0.0000	-2.5 to 2.5	Pass
					4.43	-11.444	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-7.153	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-7.939	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-11.845	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-16.708	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-8.097	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-8.640	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-7.968	-0.0030	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.27	-7.896	-0.0031	-2.5 to 2.5	Pass
					3.85	-3.648	-0.0014	-2.5 to 2.5	Pass
					4.43	-5.593	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-4.849	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	1.373	0.0005	-2.5 to 2.5	Pass
				0	3.85	-13.747	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-12.031	-0.0047	-2.5 to 2.5	Pass
				30	3.85	2.618	0.0010	-2.5 to 2.5	Pass
				40	3.85	0.873	0.0003	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0027	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-9.255	-0.0036	-2.5 to 2.5	Pass
					3.85	-6.437	-0.0025	-2.5 to 2.5	Pass
					4.43	-14.734	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-4.392	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-3.676	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-7.825	-0.0030	-2.5 to 2.5	Pass

				0	3.85	-8.497	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-7.582	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-3.963	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-8.955	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-12.288	-0.0047	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-1.130	-0.0004	-2.5 to 2.5	Pass
					3.85	-7.195	-0.0028	-2.5 to 2.5	Pass
					4.43	0.272	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-4.606	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-4.463	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-11.530	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-3.462	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-12.918	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-14.591	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-9.184	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-7.424	-0.0028	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.27	-5.579	-0.0022	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0031	-2.5 to 2.5	Pass
					4.43	-5.751	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-1.931	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-13.890	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-4.492	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-10.028	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-4.950	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-6.766	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-7.925	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-2.704	-0.0010	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-9.112	-0.0035	-2.5 to 2.5	Pass
					3.85	-0.114	0.0000	-2.5 to 2.5	Pass
					4.43	-9.441	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-13.046	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-7.195	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	2.661	0.0010	-2.5 to 2.5	Pass
				0	3.85	-8.368	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-4.835	-0.0019	-2.5 to 2.5	Pass
				30	3.85	2.346	0.0009	-2.5 to 2.5	Pass
				40	3.85	-5.565	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-10.142	-0.0039	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-15.335	-0.0059	-2.5 to 2.5	Pass
					3.85	-1.574	-0.0006	-2.5 to 2.5	Pass
					4.43	-10.943	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-6.466	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-7.596	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-5.693	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-13.061	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-4.578	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-4.206	-0.0016	-2.5 to 2.5	Pass
				40	3.85	2.460	0.0009	-2.5 to 2.5	Pass
				50	3.85	-12.646	-0.0048	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	3.27	-12.774	-0.0050	-2.5 to 2.5	Pass
					3.85	0.815	0.0003	-2.5 to 2.5	Pass
					4.43	-9.155	-0.0035	-2.5 to 2.5	Pass

				-30	3.85	-5.035	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-6.294	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-14.591	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-3.705	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-10.772	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-3.648	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-10.085	-0.0039	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-9.813	-0.0038	-2.5 to 2.5	Pass
					3.85	-6.480	-0.0025	-2.5 to 2.5	Pass
					4.43	-10.014	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-5.965	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-11.787	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-14.362	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-9.127	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-5.636	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
				40	3.85	4.191	0.0016	-2.5 to 2.5	Pass
				50	3.85	5.064	0.0020	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-5.622	-0.0022	-2.5 to 2.5	Pass
					3.85	-21.601	-0.0083	-2.5 to 2.5	Pass
					4.43	-11.659	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-9.656	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-4.563	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-2.475	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.443	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.189	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-12.617	-0.0048	-2.5 to 2.5	Pass
				50	3.85	0.944	0.0004	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	25	0	Refer To Test Graph		Pass
16QAM	2595	25	0	Refer To Test Graph		Pass

3.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	50	0	Refer To Test Graph		Pass
16QAM	2595	50	0	Refer To Test Graph		Pass

3.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

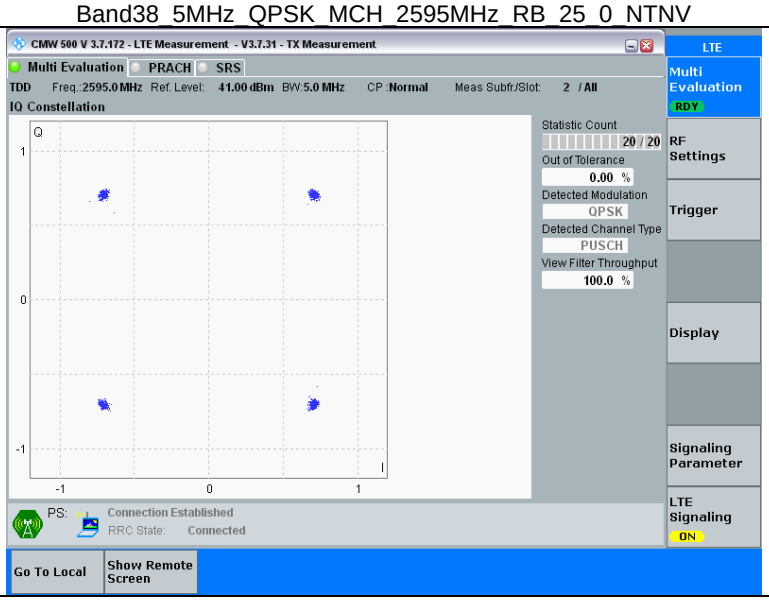
3.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

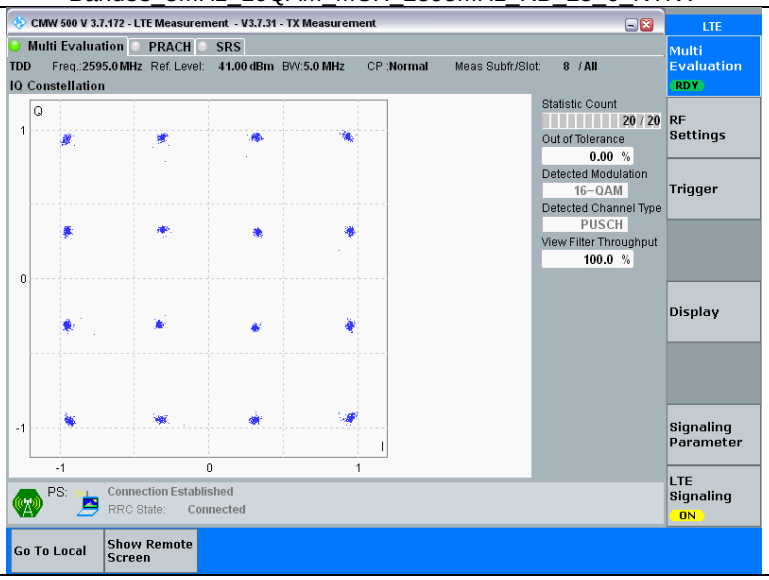
3.2 Test Graph

3.2.1 B38_5MHz

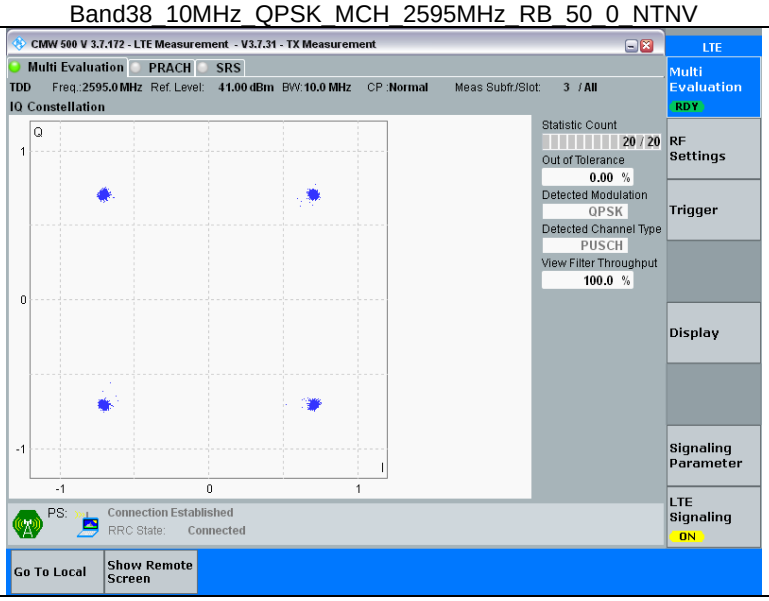
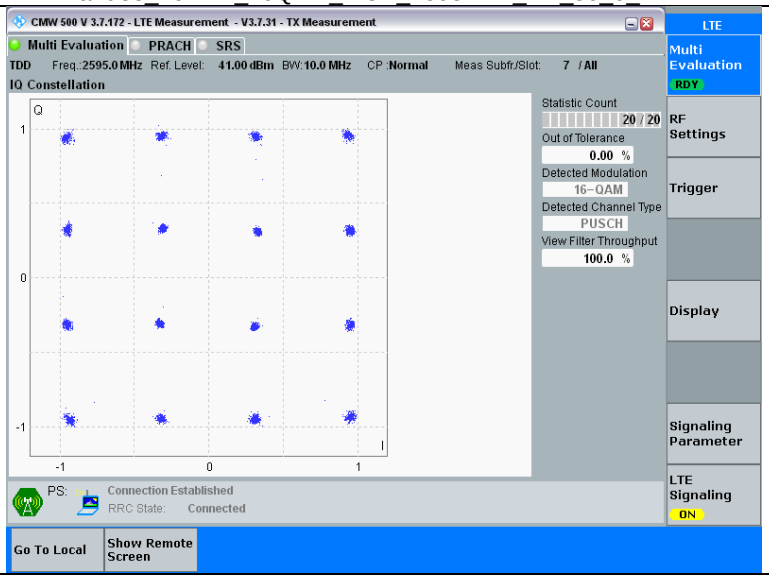
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



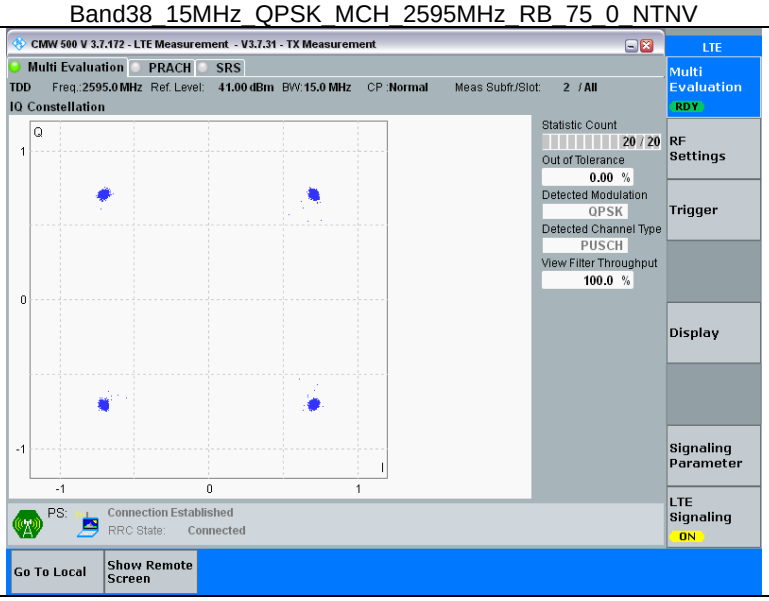
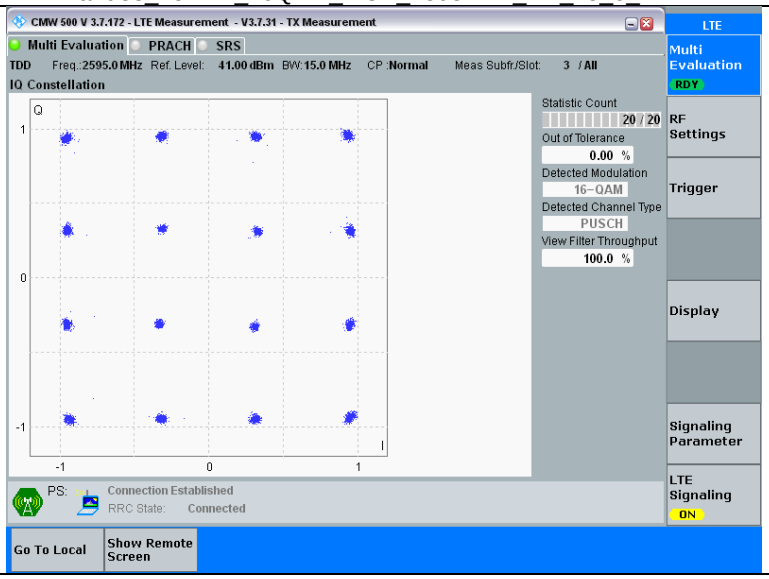
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



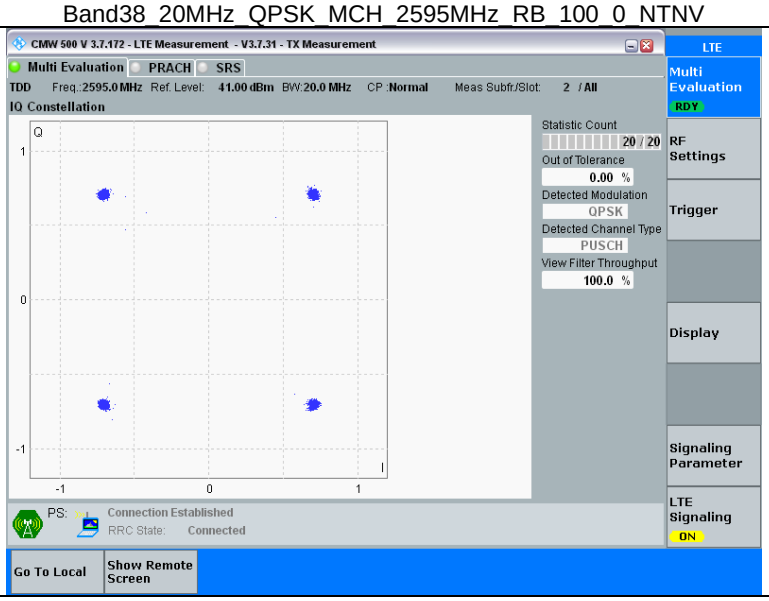
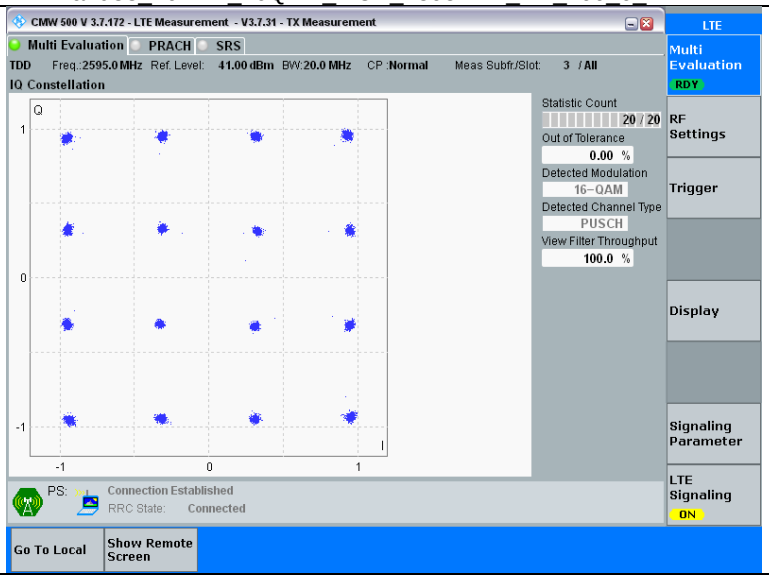
3.2.2 B38_10MHz

Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV

Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV


3.2.3 B38_15MHz

Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV

Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV


3.2.4 B38_20MHz

Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV

Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV


4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band38_OBW

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.547	/	Pass
		2595	25	0	4.541	/	Pass
		2617.5	25	0	4.537	/	Pass
	16QAM	2572.5	25	0	4.538	/	Pass
		2595	25	0	4.537	/	Pass
		2617.5	25	0	4.569	/	Pass
10	QPSK	2575	50	0	9.062	/	Pass
		2595	50	0	9.081	/	Pass
		2615	50	0	9.037	/	Pass
	16QAM	2575	50	0	9.096	/	Pass
		2595	50	0	9.045	/	Pass
		2615	50	0	9.043	/	Pass
15	QPSK	2577.5	75	0	13.589	/	Pass
		2595	75	0	13.537	/	Pass
		2612.5	75	0	13.578	/	Pass
	16QAM	2577.5	75	0	13.608	/	Pass
		2595	75	0	13.646	/	Pass
		2612.5	75	0	13.594	/	Pass
20	QPSK	2580	100	0	18.079	/	Pass
		2595	100	0	18.123	/	Pass
		2610	100	0	18.086	/	Pass
	16QAM	2580	100	0	18.063	/	Pass
		2595	100	0	18.134	/	Pass
		2610	100	0	18.112	/	Pass

4.1.2 Band38_XDB

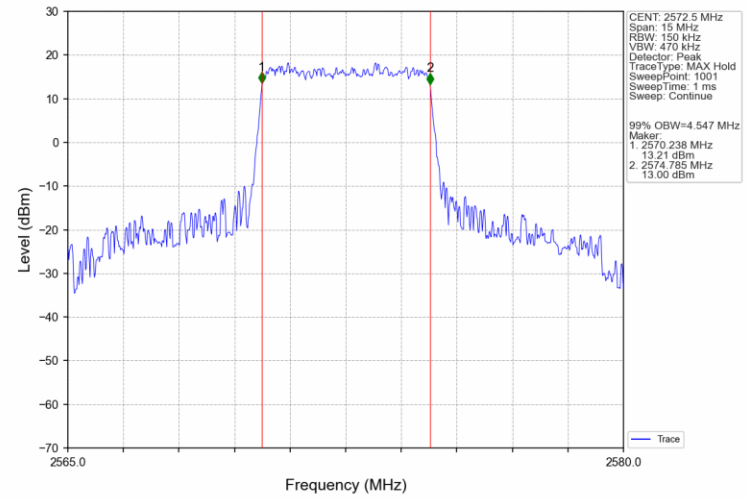
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.014	/	Pass
		2595	25	0	5.048	/	Pass
		2617.5	25	0	4.980	/	Pass
	16QAM	2572.5	25	0	5.164	/	Pass
		2595	25	0	4.997	/	Pass
		2617.5	25	0	5.313	/	Pass
10	QPSK	2575	50	0	9.883	/	Pass
		2595	50	0	9.937	/	Pass
		2615	50	0	10.342	/	Pass
	16QAM	2575	50	0	10.263	/	Pass
		2595	50	0	11.005	/	Pass
		2615	50	0	9.941	/	Pass
15	QPSK	2577.5	75	0	15.403	/	Pass
		2595	75	0	16.225	/	Pass
		2612.5	75	0	16.366	/	Pass

	16QAM	2577.5	75	0	15.906	/	Pass
		2595	75	0	18.787	/	Pass
		2612.5	75	0	16.180	/	Pass
20	QPSK	2580	100	0	20.186	/	Pass
		2595	100	0	20.708	/	Pass
		2610	100	0	20.724	/	Pass
	16QAM	2580	100	0	20.689	/	Pass
		2595	100	0	20.147	/	Pass
		2610	100	0	21.054	/	Pass

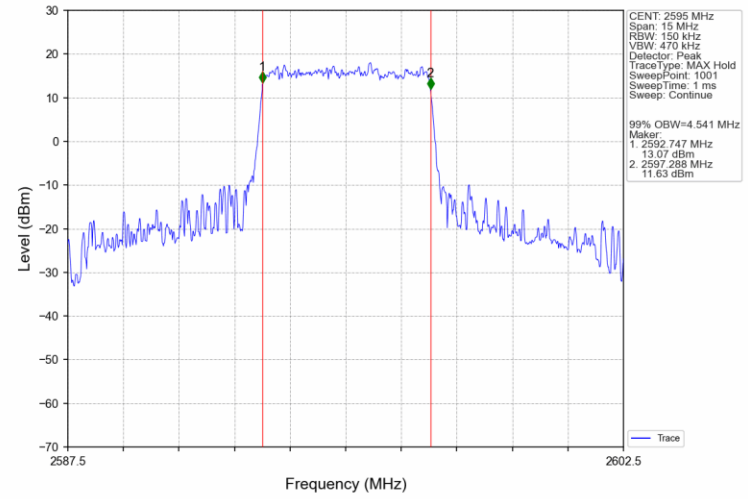
4.2 Test Graph

4.2.1 Band38_OBW

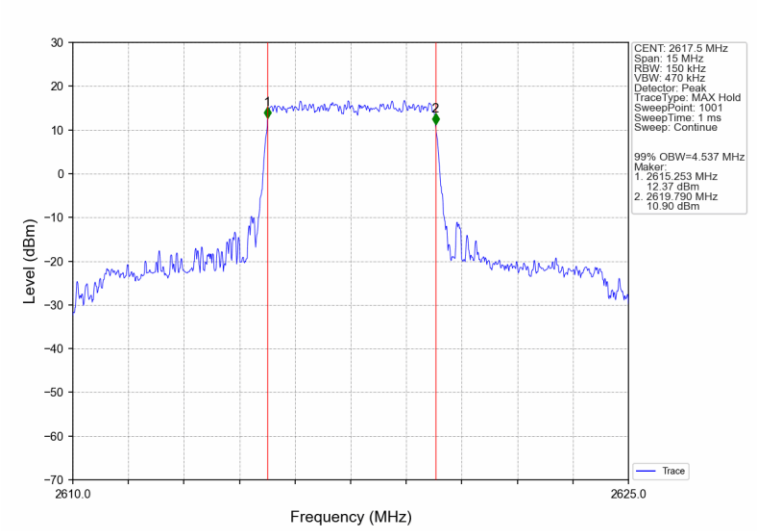
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



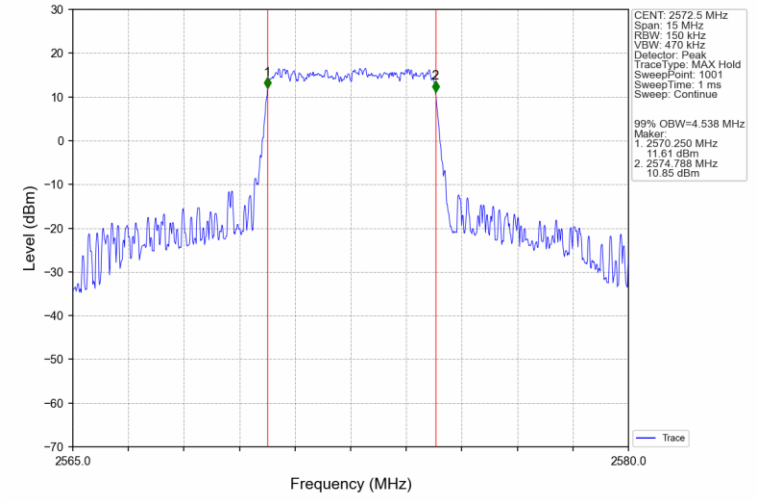
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



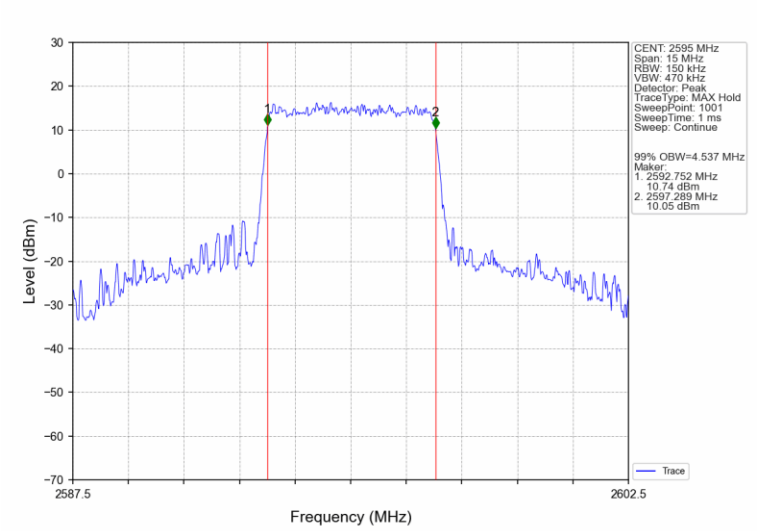
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



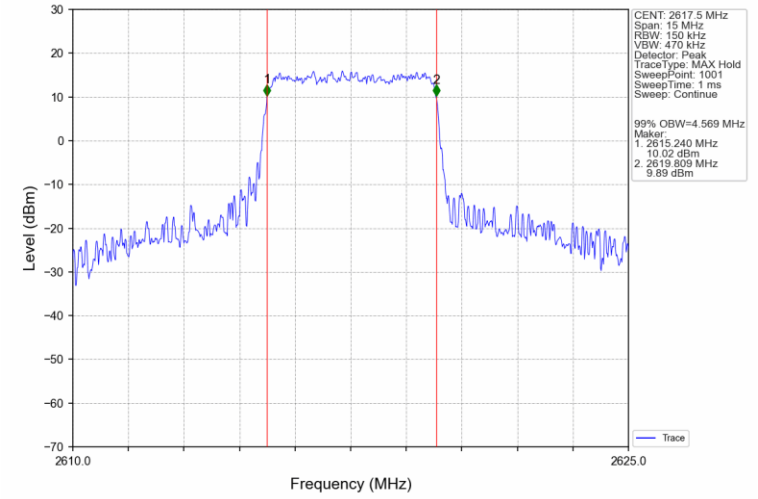
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



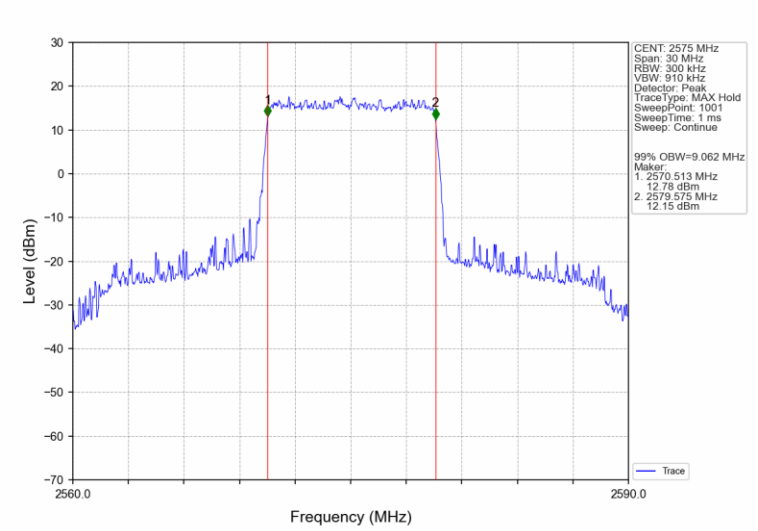
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



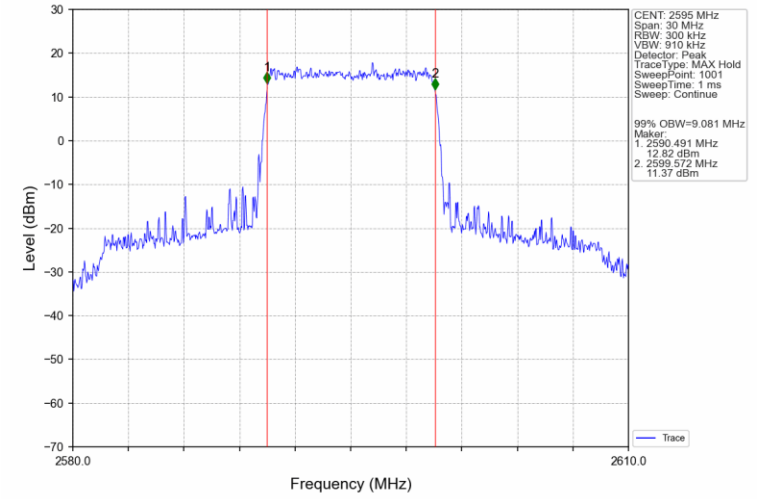
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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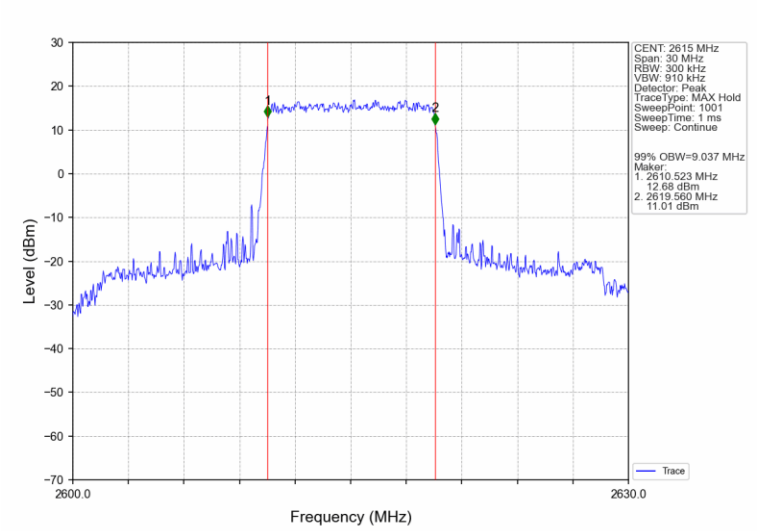
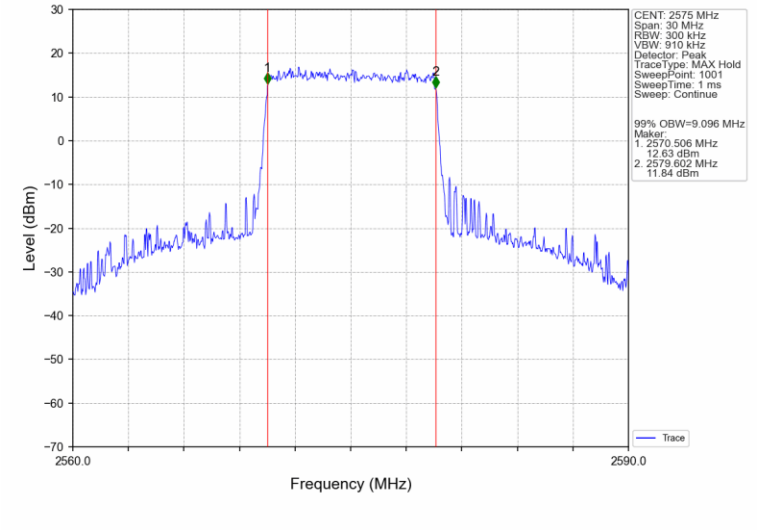
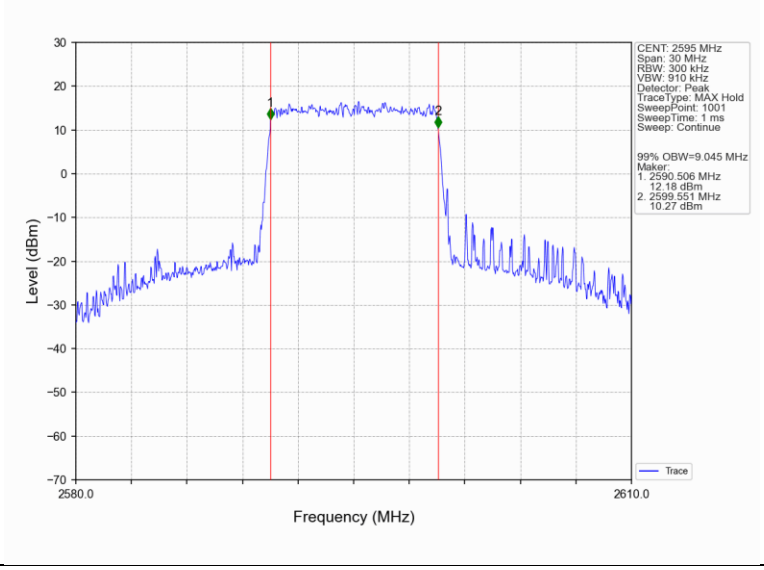
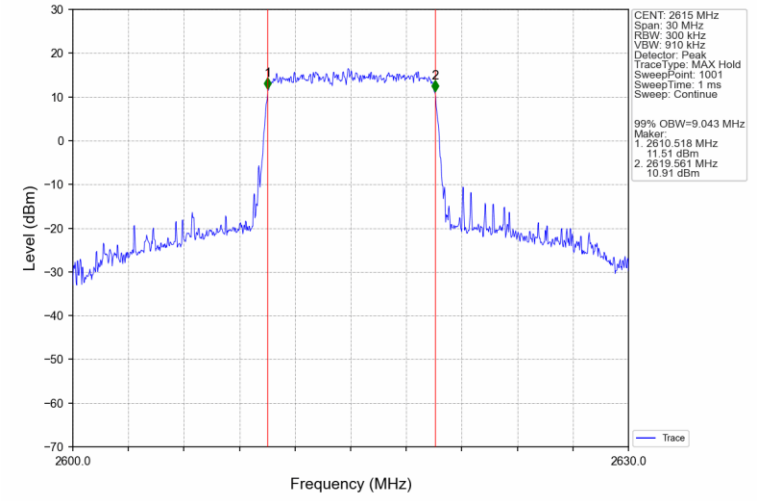

Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV


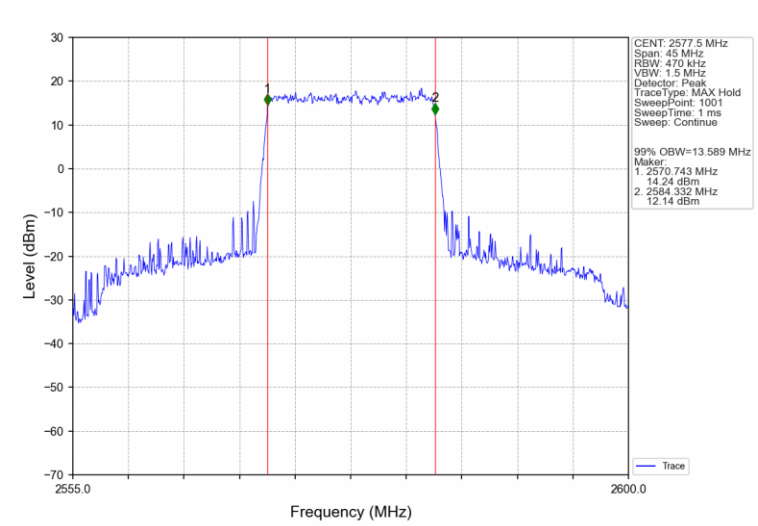
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



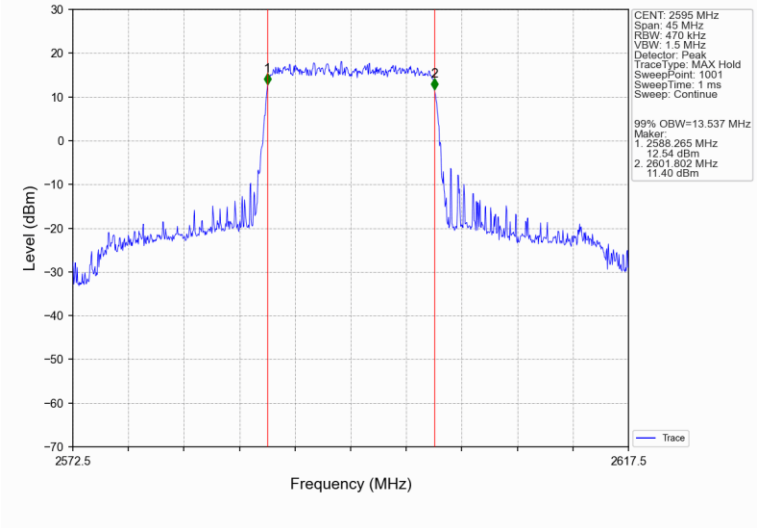
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



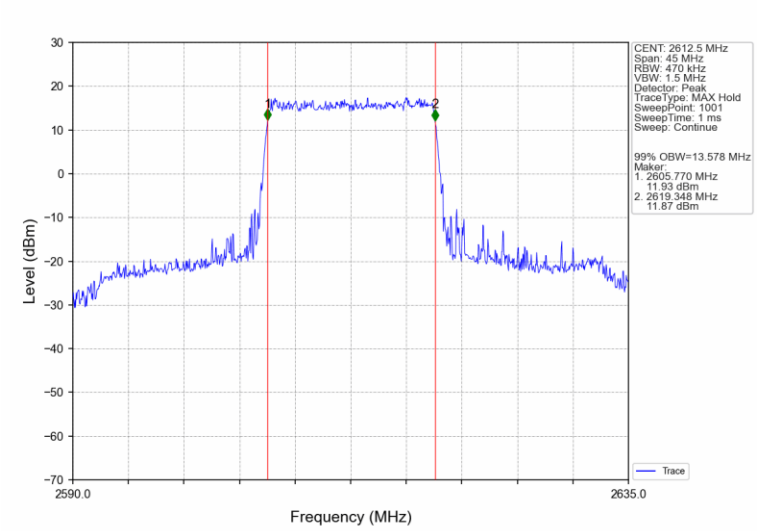
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



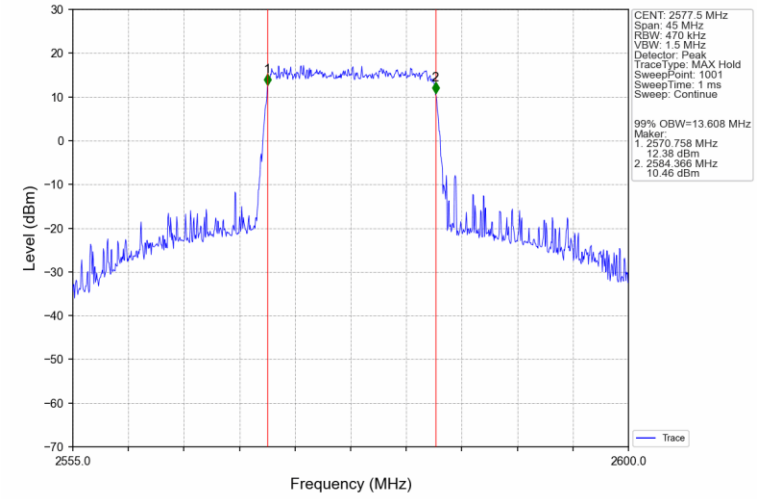
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



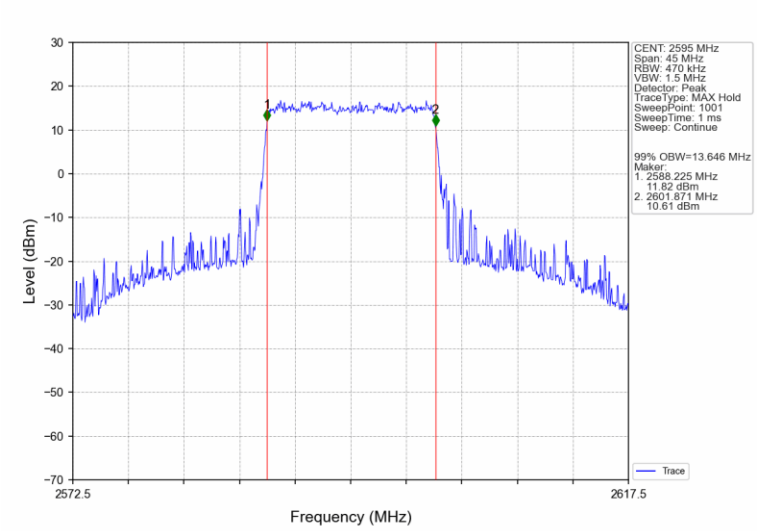
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



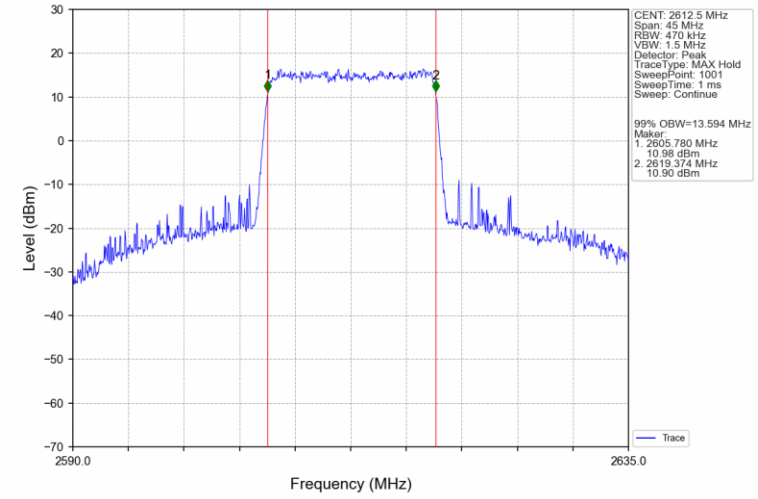
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



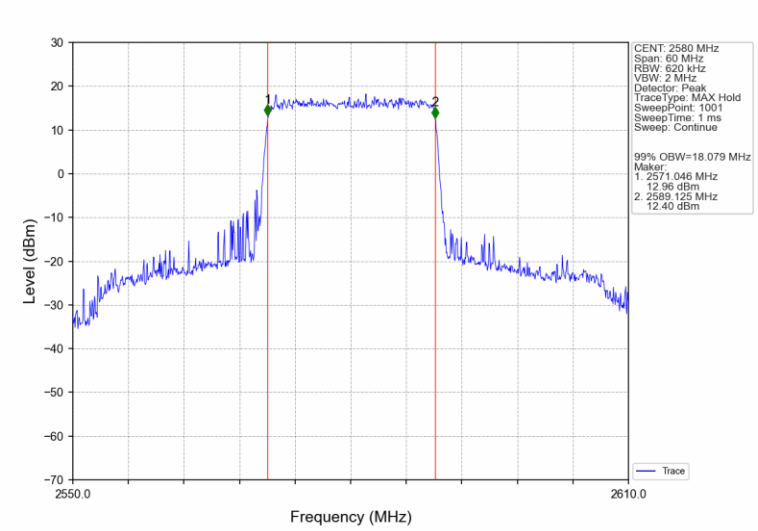
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



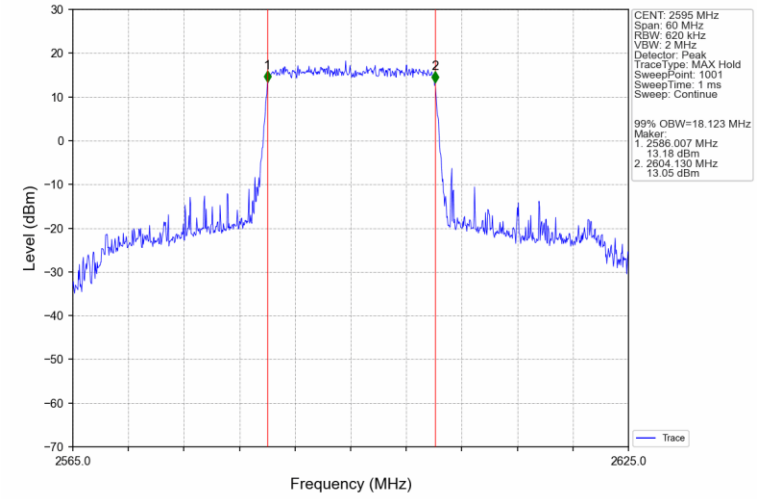
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



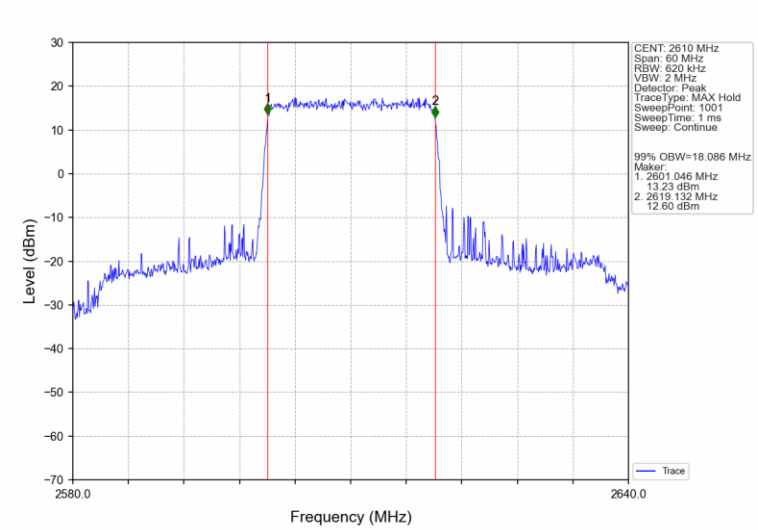
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



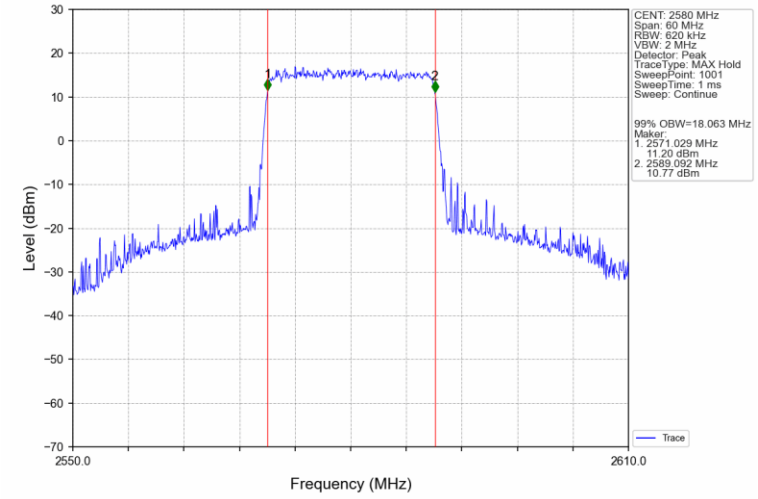
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



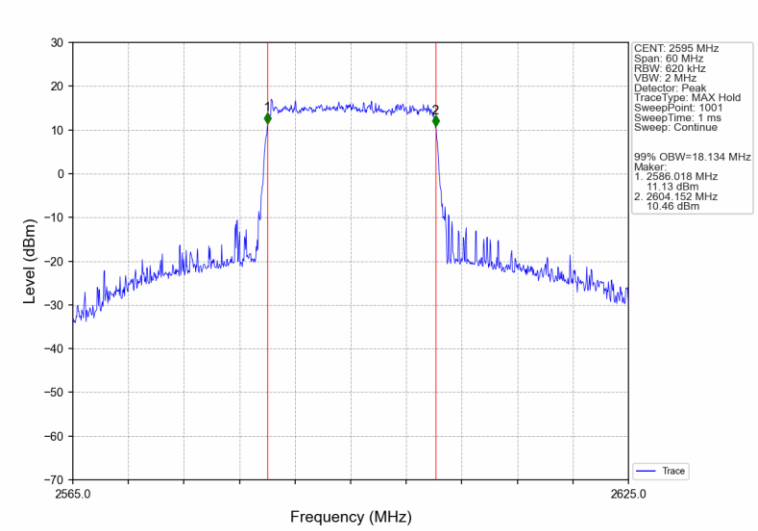
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



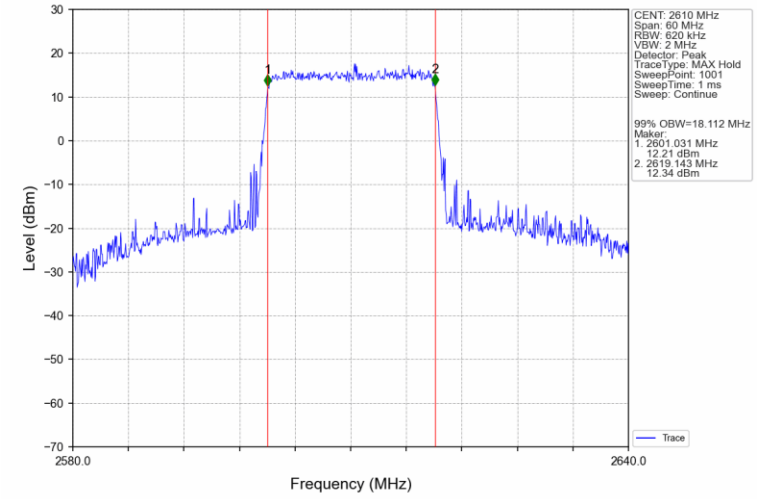
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



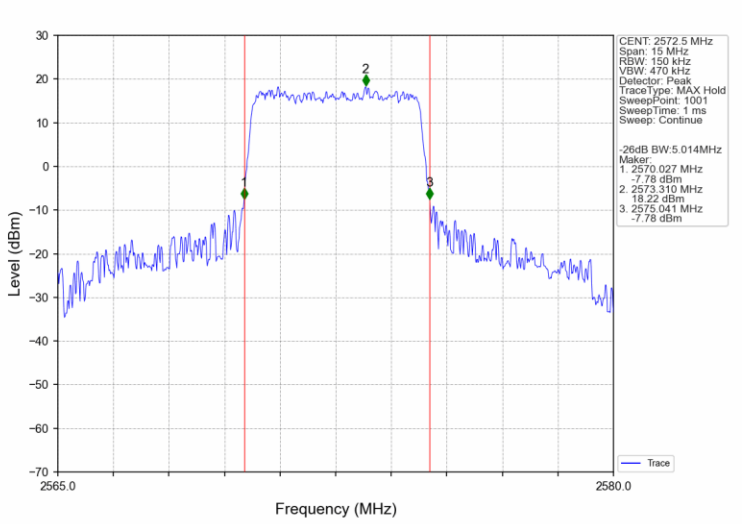
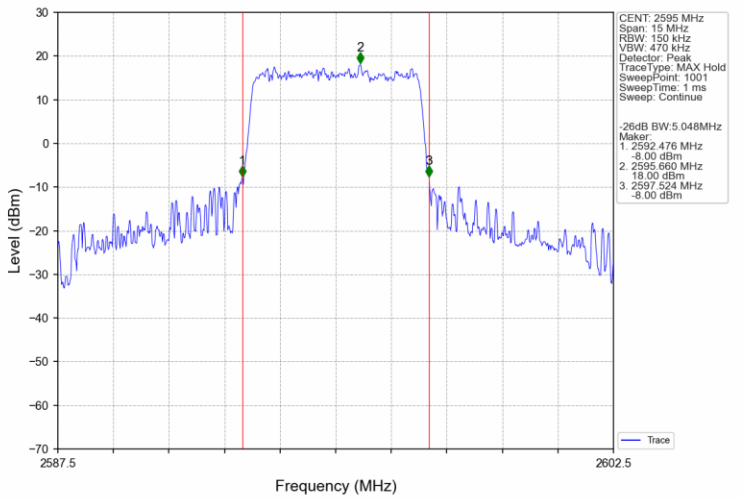
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



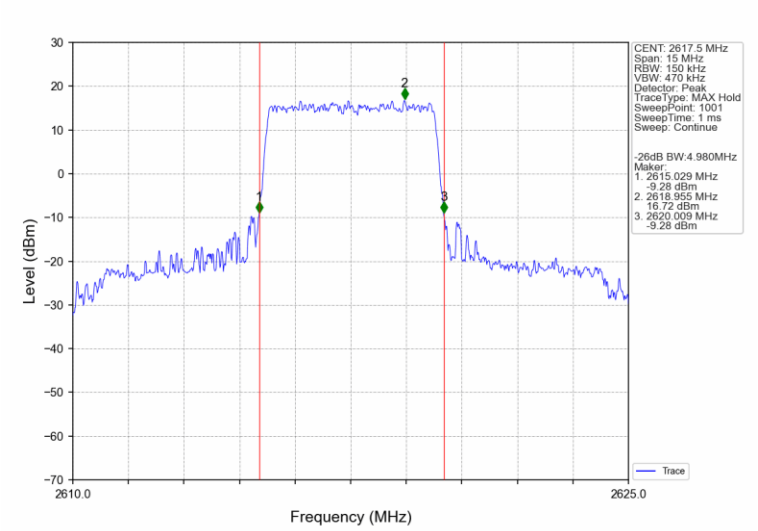
Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



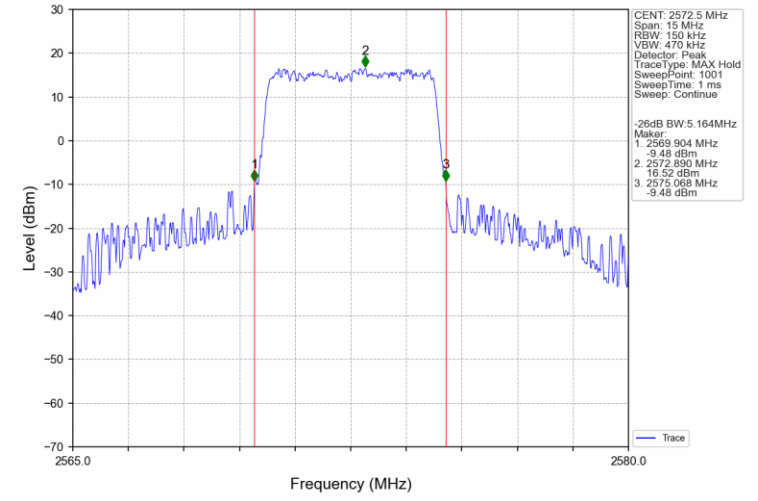
4.2.2 Band38_XDB

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV


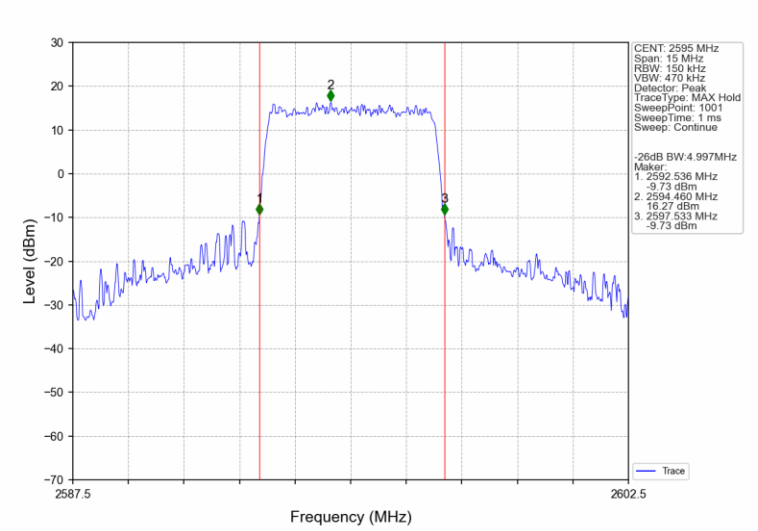
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



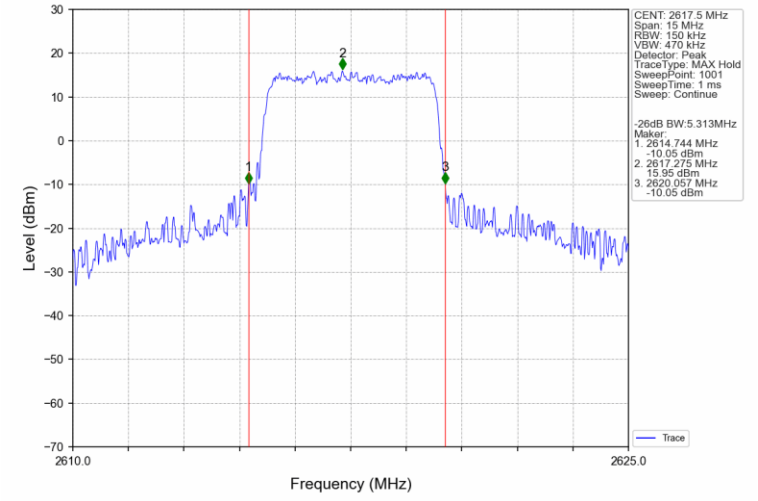
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



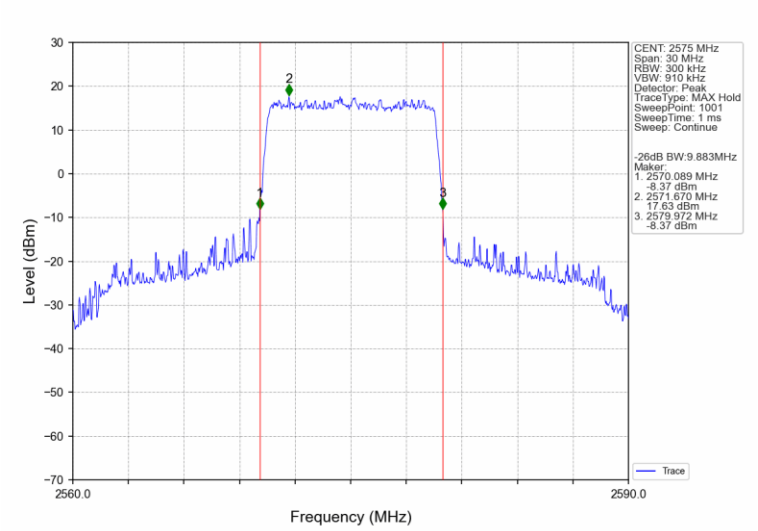
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



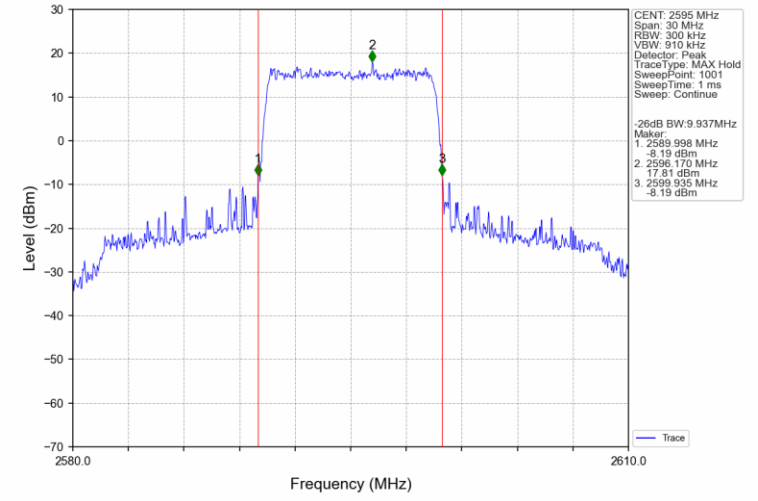
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



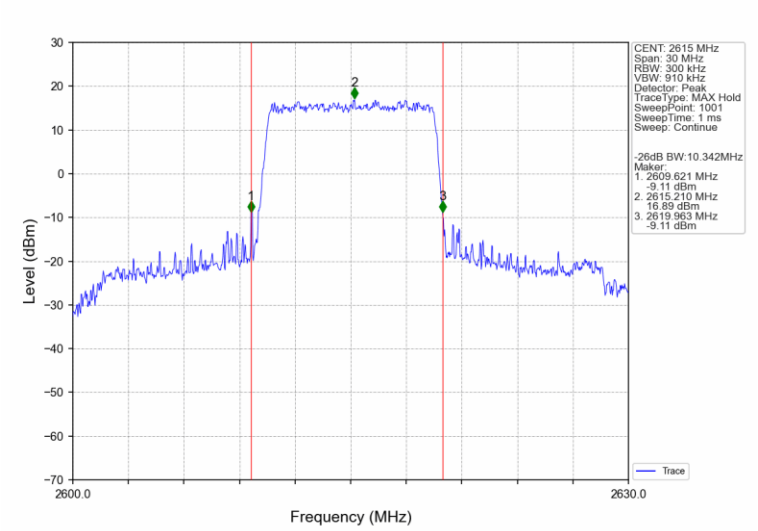
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



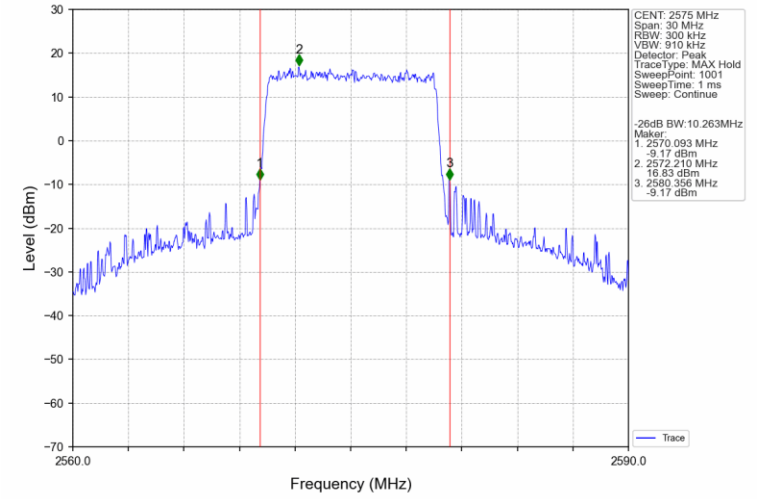
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



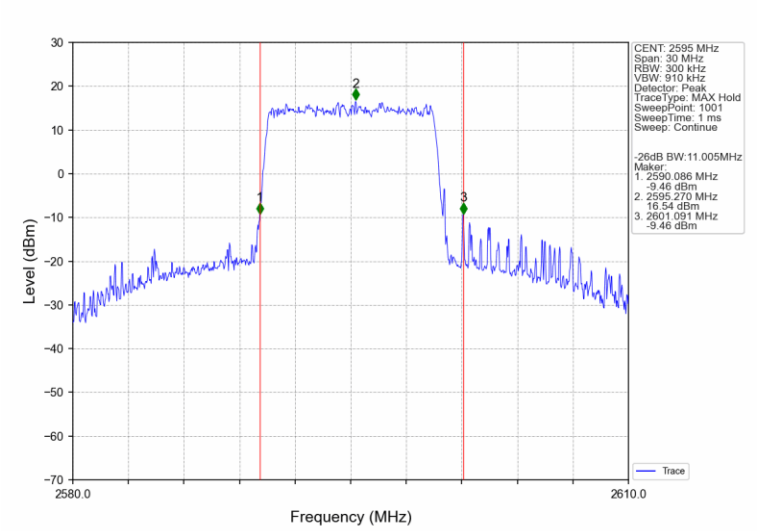
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



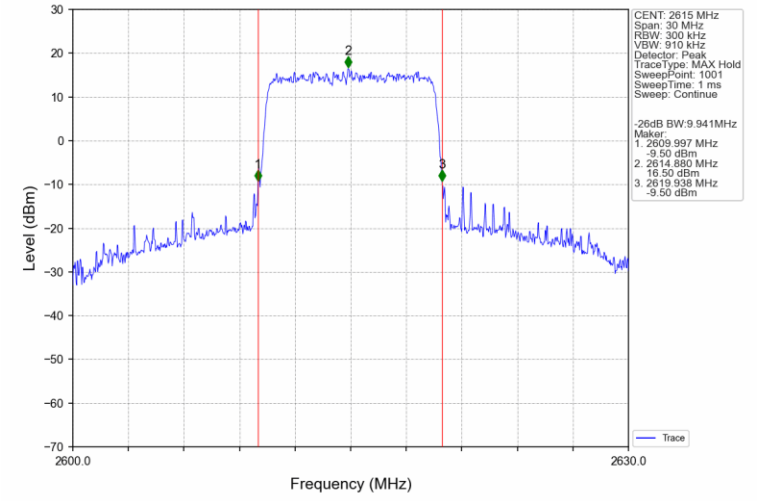
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



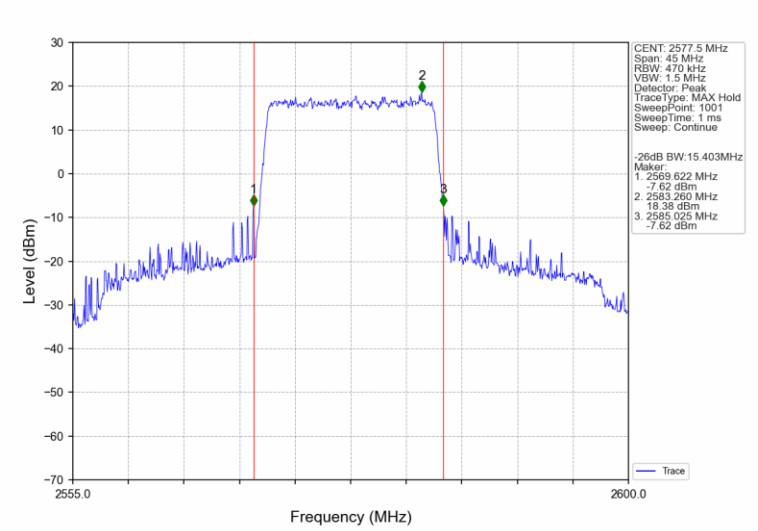
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



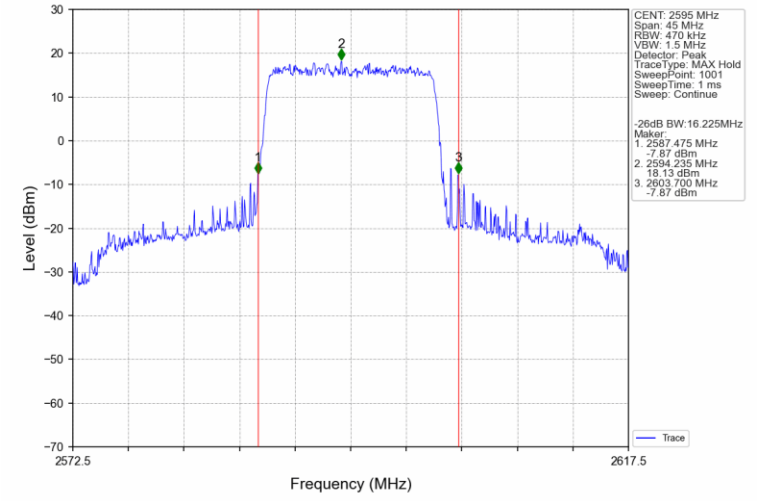
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



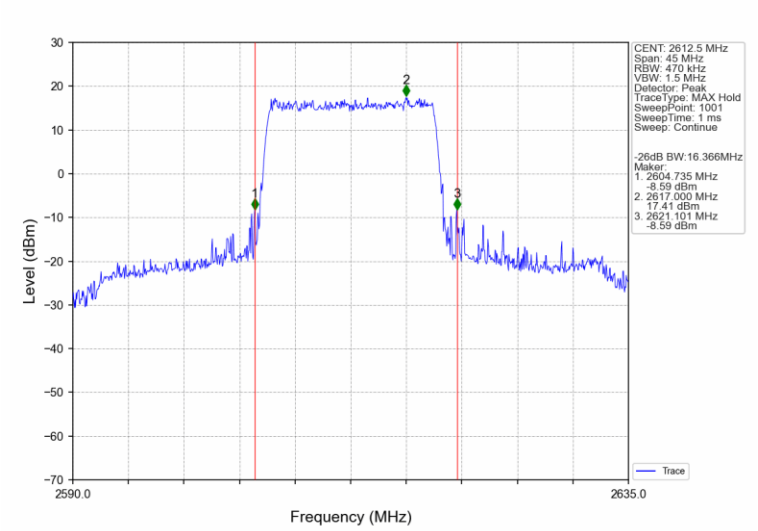
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



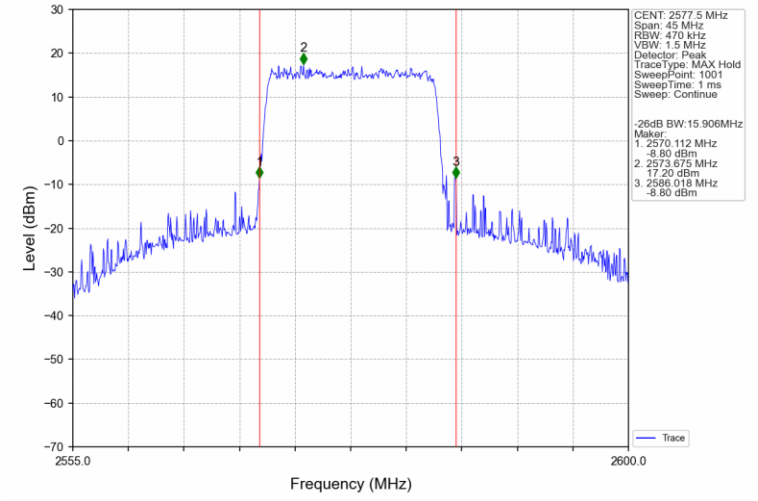
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



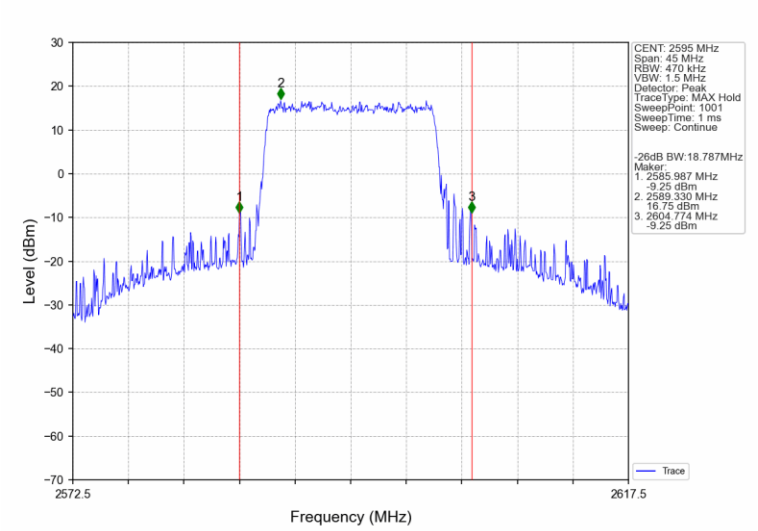
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



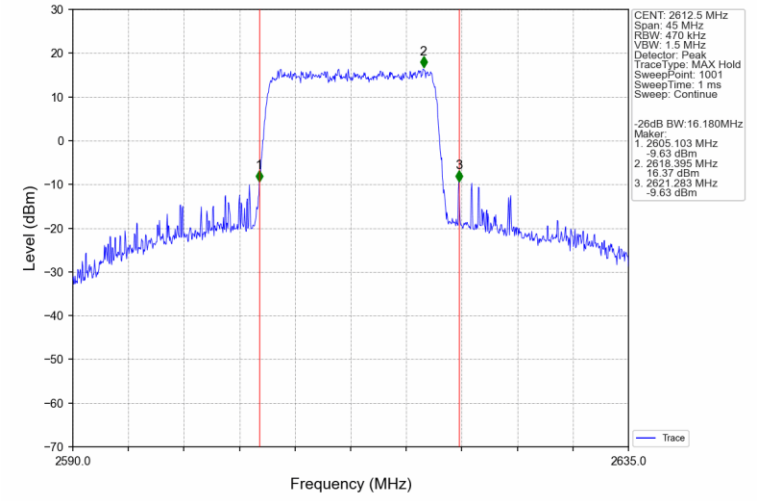
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



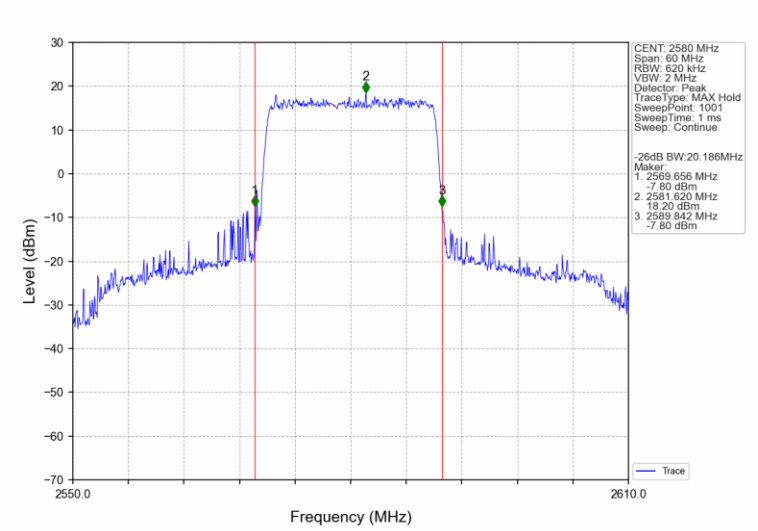
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



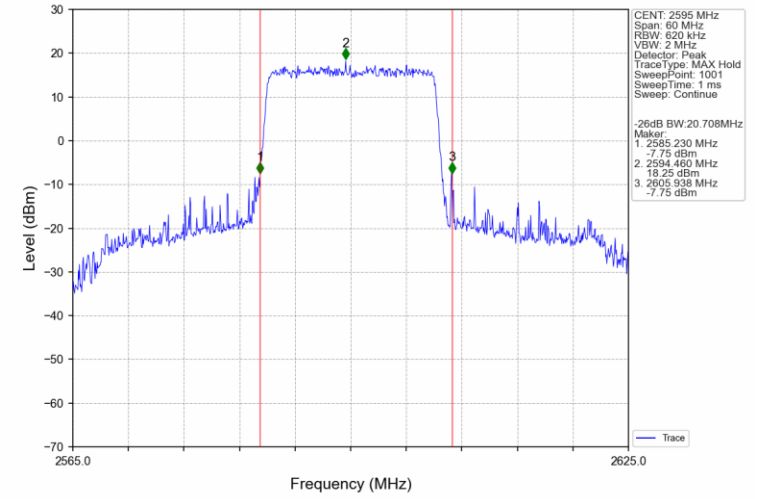
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



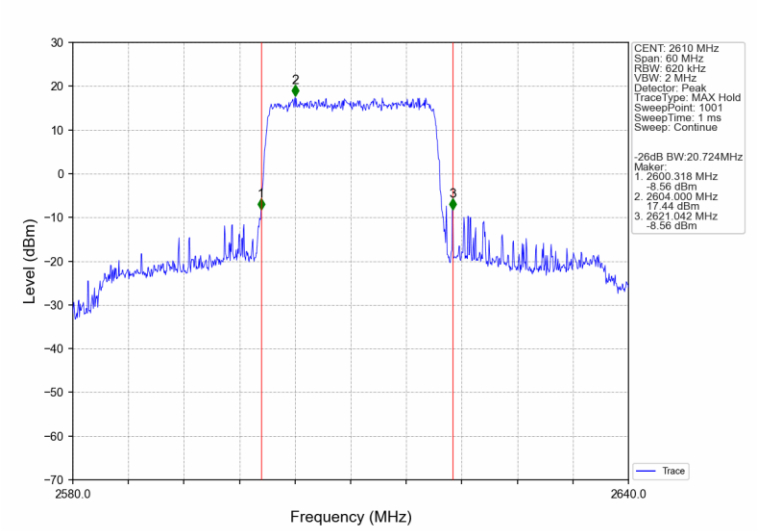
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



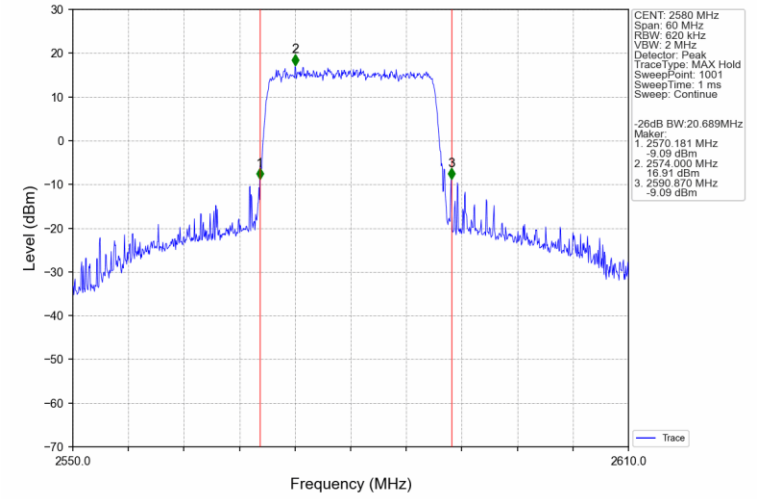
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



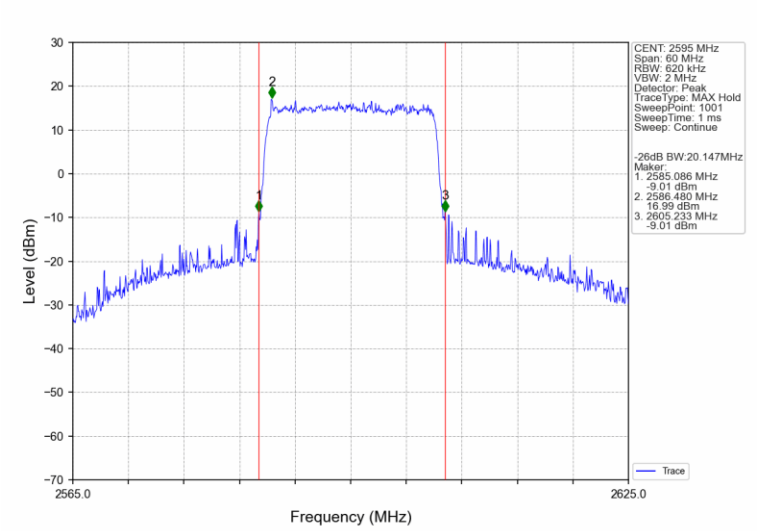
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



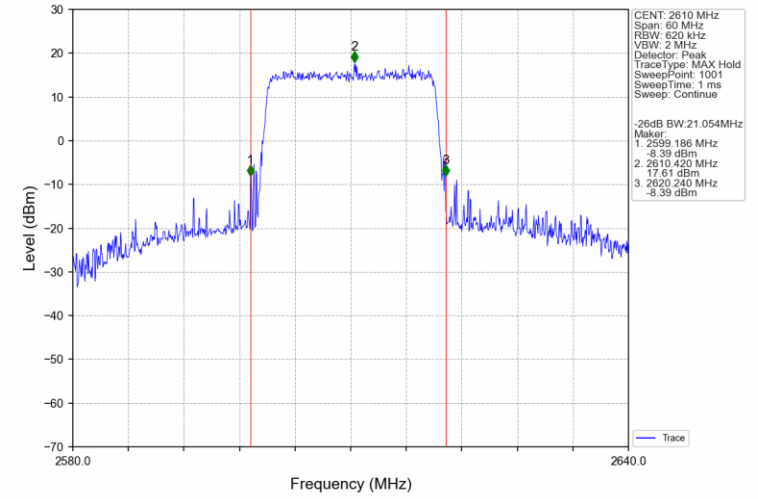
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.52	<=13	Pass
	2595	25	0	7.60	<=13	Pass
	2617.5	25	0	7.69	<=13	Pass
16QAM	2572.5	25	0	8.13	<=13	Pass
	2595	25	0	8.25	<=13	Pass
	2617.5	25	0	8.19	<=13	Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.61	<=13	Pass
	2595	50	0	7.54	<=13	Pass
	2615	50	0	7.58	<=13	Pass
16QAM	2575	50	0	8.07	<=13	Pass
	2595	50	0	8.16	<=13	Pass
	2615	50	0	8.37	<=13	Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.39	<=13	Pass
	2595	75	0	7.36	<=13	Pass
	2612.5	75	0	7.07	<=13	Pass
16QAM	2577.5	75	0	8.08	<=13	Pass
	2595	75	0	8.09	<=13	Pass
	2612.5	75	0	8.14	<=13	Pass

5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.62	<=13	Pass
	2595	100	0	7.81	<=13	Pass
	2610	100	0	7.78	<=13	Pass
16QAM	2580	100	0	8.55	<=13	Pass
	2595	100	0	8.45	<=13	Pass
	2610	100	0	8.45	<=13	Pass