

Appendix Test Data for LTE_band_38

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	21.58	2.56	24.14	<=33.01	Pass
			13	21.65	2.56	24.21	<=33.01	Pass
			24	21.49	2.56	24.05	<=33.01	Pass
		12	0	20.61	2.56	23.17	<=33.01	Pass
			6	20.61	2.56	23.17	<=33.01	Pass
			13	20.56	2.56	23.12	<=33.01	Pass
		25	0	20.57	2.56	23.13	<=33.01	Pass
	2595	1	0	21.47	2.56	24.03	<=33.01	Pass
			13	21.51	2.56	24.07	<=33.01	Pass
			24	21.37	2.56	23.93	<=33.01	Pass
		12	0	20.39	2.56	22.95	<=33.01	Pass
			6	20.35	2.56	22.91	<=33.01	Pass
			13	20.36	2.56	22.92	<=33.01	Pass
		25	0	20.32	2.56	22.88	<=33.01	Pass
	2617.5	1	0	21.07	2.56	23.63	<=33.01	Pass
			13	21.11	2.56	23.67	<=33.01	Pass
			24	21.01	2.56	23.57	<=33.01	Pass
		12	0	20.10	2.56	22.66	<=33.01	Pass
			6	20.12	2.56	22.68	<=33.01	Pass
			13	20.04	2.56	22.60	<=33.01	Pass
		25	0	20.04	2.56	22.60	<=33.01	Pass
16QAM	2572.5	1	0	20.58	2.56	23.14	<=33.01	Pass
			13	20.64	2.56	23.20	<=33.01	Pass
			24	20.44	2.56	23.00	<=33.01	Pass
		12	0	19.53	2.56	22.09	<=33.01	Pass
			6	19.60	2.56	22.16	<=33.01	Pass
			13	19.43	2.56	21.99	<=33.01	Pass
		25	0	19.49	2.56	22.05	<=33.01	Pass
	2595	1	0	20.56	2.56	23.12	<=33.01	Pass
			13	20.39	2.56	22.95	<=33.01	Pass
			24	20.22	2.56	22.78	<=33.01	Pass
		12	0	19.27	2.56	21.83	<=33.01	Pass
			6	19.34	2.56	21.90	<=33.01	Pass
			13	19.20	2.56	21.76	<=33.01	Pass
		25	0	19.31	2.56	21.87	<=33.01	Pass
	2617.5	1	0	19.99	2.56	22.55	<=33.01	Pass
			13	20.02	2.56	22.58	<=33.01	Pass
			24	20.17	2.56	22.73	<=33.01	Pass
		12	0	18.97	2.56	21.53	<=33.01	Pass
			6	19.01	2.56	21.57	<=33.01	Pass
			13	18.93	2.56	21.49	<=33.01	Pass
		25	0	18.85	2.56	21.41	<=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	21.66	2.56	24.22	<=33.01	Pass
			25	21.81	2.56	24.37	<=33.01	Pass
			49	21.57	2.56	24.13	<=33.01	Pass
		25	0	20.64	2.56	23.20	<=33.01	Pass
			13	20.61	2.56	23.17	<=33.01	Pass
			25	20.60	2.56	23.16	<=33.01	Pass
		50	0	20.60	2.56	23.16	<=33.01	Pass
			0	21.46	2.56	24.02	<=33.01	Pass
			25	21.71	2.56	24.27	<=33.01	Pass
	2595	1	49	21.29	2.56	23.85	<=33.01	Pass
			0	20.44	2.56	23.00	<=33.01	Pass
			13	20.43	2.56	22.99	<=33.01	Pass
		25	25	20.33	2.56	22.89	<=33.01	Pass
			0	20.36	2.56	22.92	<=33.01	Pass
		2615	0	21.19	2.56	23.75	<=33.01	Pass
			25	21.43	2.56	23.99	<=33.01	Pass
			49	21.13	2.56	23.69	<=33.01	Pass
			0	20.16	2.56	22.72	<=33.01	Pass
			13	20.15	2.56	22.71	<=33.01	Pass
			25	20.04	2.56	22.60	<=33.01	Pass
		50	0	20.07	2.56	22.63	<=33.01	Pass
16QAM	2575	1	0	20.45	2.56	23.01	<=33.01	Pass
			25	20.74	2.56	23.30	<=33.01	Pass
			49	20.34	2.56	22.90	<=33.01	Pass
		25	0	19.61	2.56	22.17	<=33.01	Pass
			13	19.60	2.56	22.16	<=33.01	Pass
			25	19.57	2.56	22.13	<=33.01	Pass
		50	0	19.55	2.56	22.11	<=33.01	Pass
		2595	0	20.20	2.56	22.76	<=33.01	Pass
			25	20.31	2.56	22.87	<=33.01	Pass
			49	20.09	2.56	22.65	<=33.01	Pass
		25	0	19.43	2.56	21.99	<=33.01	Pass
			13	19.34	2.56	21.90	<=33.01	Pass
			25	19.29	2.56	21.85	<=33.01	Pass
		50	0	19.33	2.56	21.89	<=33.01	Pass
	2615	1	0	19.76	2.56	22.32	<=33.01	Pass
			25	20.07	2.56	22.63	<=33.01	Pass
			49	20.05	2.56	22.61	<=33.01	Pass
		25	0	19.10	2.56	21.66	<=33.01	Pass
			13	18.97	2.56	21.53	<=33.01	Pass
			25	18.96	2.56	21.52	<=33.01	Pass
		50	0	18.95	2.56	21.51	<=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	21.45	2.56	24.01	<=33.01	Pass
			38	21.74	2.56	24.30	<=33.01	Pass
			74	21.50	2.56	24.06	<=33.01	Pass
		36	0	20.64	2.56	23.20	<=33.01	Pass
			18	20.66	2.56	23.22	<=33.01	Pass
			39	20.54	2.56	23.10	<=33.01	Pass
		75	0	20.63	2.56	23.19	<=33.01	Pass
	2595	1	0	21.30	2.56	23.86	<=33.01	Pass
			38	21.46	2.56	24.02	<=33.01	Pass
			74	21.16	2.56	23.72	<=33.01	Pass
		36	0	20.52	2.56	23.08	<=33.01	Pass
			18	20.48	2.56	23.04	<=33.01	Pass
			39	20.33	2.56	22.89	<=33.01	Pass
		75	0	20.43	2.56	22.99	<=33.01	Pass
	2612.5	1	0	21.10	2.56	23.66	<=33.01	Pass
			38	21.23	2.56	23.79	<=33.01	Pass
			74	21.03	2.56	23.59	<=33.01	Pass
		36	0	20.23	2.56	22.79	<=33.01	Pass
			18	20.25	2.56	22.81	<=33.01	Pass
			39	20.11	2.56	22.67	<=33.01	Pass
		75	0	20.20	2.56	22.76	<=33.01	Pass
16QAM	2577.5	1	0	20.51	2.56	23.07	<=33.01	Pass
			38	20.99	2.56	23.55	<=33.01	Pass
			74	20.40	2.56	22.96	<=33.01	Pass
		36	0	19.56	2.56	22.12	<=33.01	Pass
			18	19.61	2.56	22.17	<=33.01	Pass
			39	19.47	2.56	22.03	<=33.01	Pass
		75	0	19.54	2.56	22.10	<=33.01	Pass
	2595	1	0	20.11	2.56	22.67	<=33.01	Pass
			38	20.34	2.56	22.90	<=33.01	Pass
			74	19.79	2.56	22.35	<=33.01	Pass
		36	0	19.42	2.56	21.98	<=33.01	Pass
			18	19.38	2.56	21.94	<=33.01	Pass
			39	19.20	2.56	21.76	<=33.01	Pass
		75	0	19.34	2.56	21.90	<=33.01	Pass
	2612.5	1	0	19.96	2.56	22.52	<=33.01	Pass
			38	19.83	2.56	22.39	<=33.01	Pass
			74	19.61	2.56	22.17	<=33.01	Pass
		36	0	19.11	2.56	21.67	<=33.01	Pass
			18	19.08	2.56	21.64	<=33.01	Pass
			39	18.93	2.56	21.49	<=33.01	Pass
		75	0	19.03	2.56	21.59	<=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	21.25	2.56	23.81	<=33.01	Pass
			50	21.61	2.56	24.17	<=33.01	Pass
			99	21.21	2.56	23.77	<=33.01	Pass
		50	0	20.59	2.56	23.15	<=33.01	Pass
			25	20.49	2.56	23.05	<=33.01	Pass
			50	20.39	2.56	22.95	<=33.01	Pass
		100	0	20.58	2.56	23.14	<=33.01	Pass
			0	21.27	2.56	23.83	<=33.01	Pass
			50	21.56	2.56	24.12	<=33.01	Pass
	2595	1	99	20.90	2.56	23.46	<=33.01	Pass
			0	20.44	2.56	23.00	<=33.01	Pass
			25	20.33	2.56	22.89	<=33.01	Pass
		50	50	20.15	2.56	22.71	<=33.01	Pass
			0	20.33	2.56	22.89	<=33.01	Pass
			0	21.00	2.56	23.56	<=33.01	Pass
		100	50	21.25	2.56	23.81	<=33.01	Pass
			99	20.90	2.56	23.46	<=33.01	Pass
			0	20.16	2.56	22.72	<=33.01	Pass
16QAM	2580	1	25	20.02	2.56	22.58	<=33.01	Pass
			50	19.92	2.56	22.48	<=33.01	Pass
			0	20.06	2.56	22.62	<=33.01	Pass
		50	0	20.46	2.56	23.02	<=33.01	Pass
			50	20.85	2.56	23.41	<=33.01	Pass
			99	20.14	2.56	22.70	<=33.01	Pass
		100	0	19.51	2.56	22.07	<=33.01	Pass
			25	19.55	2.56	22.11	<=33.01	Pass
			50	19.42	2.56	21.98	<=33.01	Pass
	2595	1	0	19.55	2.56	22.11	<=33.01	Pass
			0	20.32	2.56	22.88	<=33.01	Pass
			50	20.14	2.56	22.70	<=33.01	Pass
		50	99	19.62	2.56	22.18	<=33.01	Pass
			0	19.41	2.56	21.97	<=33.01	Pass
			25	19.29	2.56	21.85	<=33.01	Pass
		100	50	19.13	2.56	21.69	<=33.01	Pass
			0	19.25	2.56	21.81	<=33.01	Pass
			0	19.84	2.56	22.40	<=33.01	Pass
	2610	1	50	20.40	2.56	22.96	<=33.01	Pass
			99	19.73	2.56	22.29	<=33.01	Pass
			0	19.07	2.56	21.63	<=33.01	Pass
		50	25	19.00	2.56	21.56	<=33.01	Pass
			50	18.82	2.56	21.38	<=33.01	Pass
			0	18.97	2.56	21.53	<=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	3.23	-11.659	-0.0045	-2.5 to 2.5	Pass
					3.80	-22.230	-0.0086	-2.5 to 2.5	Pass
					4.37	-13.733	-0.0053	-2.5 to 2.5	Pass
				-30	3.80	-13.433	-0.0052	-2.5 to 2.5	Pass
				-20	3.80	-19.798	-0.0077	-2.5 to 2.5	Pass
				-10	3.80	-18.697	-0.0073	-2.5 to 2.5	Pass
				0	3.80	-14.191	-0.0055	-2.5 to 2.5	Pass
				10	3.80	-14.162	-0.0055	-2.5 to 2.5	Pass
				30	3.80	-14.734	-0.0057	-2.5 to 2.5	Pass
				40	3.80	-15.807	-0.0061	-2.5 to 2.5	Pass
				50	3.80	-11.816	-0.0046	-2.5 to 2.5	Pass
	2595	25	0	20	3.23	10.529	0.0041	-2.5 to 2.5	Pass
					3.80	10.886	0.0042	-2.5 to 2.5	Pass
					4.37	12.016	0.0046	-2.5 to 2.5	Pass
				-30	3.80	-4.978	-0.0019	-2.5 to 2.5	Pass
				-20	3.80	2.546	0.0010	-2.5 to 2.5	Pass
				-10	3.80	5.794	0.0022	-2.5 to 2.5	Pass
				0	3.80	0.687	0.0003	-2.5 to 2.5	Pass
				10	3.80	-7.524	-0.0029	-2.5 to 2.5	Pass
				30	3.80	0.072	0.0000	-2.5 to 2.5	Pass
				40	3.80	-9.999	-0.0039	-2.5 to 2.5	Pass
				50	3.80	-11.330	-0.0044	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.23	-2.403	-0.0009	-2.5 to 2.5	Pass
					3.80	0.701	0.0003	-2.5 to 2.5	Pass
					4.37	1.459	0.0006	-2.5 to 2.5	Pass
				-30	3.80	-12.803	-0.0049	-2.5 to 2.5	Pass
				-20	3.80	-14.191	-0.0054	-2.5 to 2.5	Pass
				-10	3.80	-2.618	-0.0010	-2.5 to 2.5	Pass
				0	3.80	-13.132	-0.0050	-2.5 to 2.5	Pass
				10	3.80	-18.253	-0.0070	-2.5 to 2.5	Pass
				30	3.80	-16.422	-0.0063	-2.5 to 2.5	Pass
				40	3.80	-19.798	-0.0076	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.23	-9.928	-0.0039	-2.5 to 2.5	Pass
					3.80	-11.702	-0.0045	-2.5 to 2.5	Pass
					4.37	-17.023	-0.0066	-2.5 to 2.5	Pass
				-30	3.80	-3.090	-0.0012	-2.5 to 2.5	Pass
				-20	3.80	-6.051	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-10.042	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-13.032	-0.0051	-2.5 to 2.5	Pass
				10	3.80	-15.678	-0.0061	-2.5 to 2.5	Pass
				30	3.80	-2.832	-0.0011	-2.5 to 2.5	Pass
				40	3.80	-8.683	-0.0034	-2.5 to 2.5	Pass
				50	3.80	-5.994	-0.0023	-2.5 to 2.5	Pass
	2595	25	0	20	3.23	0.658	0.0003	-2.5 to 2.5	Pass
					3.80	0.973	0.0004	-2.5 to 2.5	Pass
					4.37	11.129	0.0043	-2.5 to 2.5	Pass
				-30	3.80	-1.116	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	9.398	0.0036	-2.5 to 2.5	Pass
				-10	3.80	9.513	0.0037	-2.5 to 2.5	Pass

				0	3.80	6.008	0.0023	-2.5 to 2.5	Pass
				10	3.80	-1.645	-0.0006	-2.5 to 2.5	Pass
				30	3.80	11.659	0.0045	-2.5 to 2.5	Pass
				40	3.80	-0.043	0.0000	-2.5 to 2.5	Pass
				50	3.80	4.320	0.0017	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.23	-19.698	-0.0075	-2.5 to 2.5	Pass
					3.80	-10.729	-0.0041	-2.5 to 2.5	Pass
					4.37	-12.074	-0.0046	-2.5 to 2.5	Pass
				-30	3.80	-5.894	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	-12.460	-0.0048	-2.5 to 2.5	Pass
				-10	3.80	-3.805	-0.0015	-2.5 to 2.5	Pass
				0	3.80	-6.924	-0.0026	-2.5 to 2.5	Pass
				10	3.80	-20.757	-0.0079	-2.5 to 2.5	Pass
				30	3.80	-9.112	-0.0035	-2.5 to 2.5	Pass
				40	3.80	-6.137	-0.0023	-2.5 to 2.5	Pass
				50	3.80	-15.392	-0.0059	-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	3.23	-11.044	-0.0043	-2.5 to 2.5	Pass
					3.80	-13.475	-0.0052	-2.5 to 2.5	Pass
					4.37	-16.923	-0.0066	-2.5 to 2.5	Pass
				-30	3.80	-11.873	-0.0046	-2.5 to 2.5	Pass
				-20	3.80	-11.458	-0.0044	-2.5 to 2.5	Pass
				-10	3.80	-14.119	-0.0055	-2.5 to 2.5	Pass
				0	3.80	-5.836	-0.0023	-2.5 to 2.5	Pass
				10	3.80	-11.859	-0.0046	-2.5 to 2.5	Pass
				30	3.80	-4.263	-0.0017	-2.5 to 2.5	Pass
				40	3.80	-17.624	-0.0068	-2.5 to 2.5	Pass
				50	3.80	-8.426	-0.0033	-2.5 to 2.5	Pass
	2595	50	0	20	3.23	-9.727	-0.0037	-2.5 to 2.5	Pass
					3.80	-5.150	-0.0020	-2.5 to 2.5	Pass
					4.37	-14.906	-0.0057	-2.5 to 2.5	Pass
				-30	3.80	-11.830	-0.0046	-2.5 to 2.5	Pass
				-20	3.80	-7.639	-0.0029	-2.5 to 2.5	Pass
				-10	3.80	-3.290	-0.0013	-2.5 to 2.5	Pass
				0	3.80	-9.227	-0.0036	-2.5 to 2.5	Pass
				10	3.80	-6.781	-0.0026	-2.5 to 2.5	Pass
				30	3.80	-13.075	-0.0050	-2.5 to 2.5	Pass
				40	3.80	-6.366	-0.0025	-2.5 to 2.5	Pass
				50	3.80	-14.834	-0.0057	-2.5 to 2.5	Pass
	2615	50	0	20	3.23	-12.131	-0.0046	-2.5 to 2.5	Pass
					3.80	-2.303	-0.0009	-2.5 to 2.5	Pass
					4.37	-9.398	-0.0036	-2.5 to 2.5	Pass
				-30	3.80	-10.686	-0.0041	-2.5 to 2.5	Pass
				-20	3.80	-7.067	-0.0027	-2.5 to 2.5	Pass
				-10	3.80	-6.795	-0.0026	-2.5 to 2.5	Pass
				0	3.80	-17.524	-0.0067	-2.5 to 2.5	Pass
				10	3.80	-17.796	-0.0068	-2.5 to 2.5	Pass
				30	3.80	-11.029	-0.0042	-2.5 to 2.5	Pass
				40	3.80	-6.723	-0.0026	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.23	-6.466	-0.0025	-2.5 to 2.5	Pass
					3.80	-12.560	-0.0049	-2.5 to 2.5	Pass
					4.37	-3.948	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	-0.243	-0.0001	-2.5 to 2.5	Pass
				-20	3.80	-5.708	-0.0022	-2.5 to 2.5	Pass
				-10	3.80	-11.044	-0.0043	-2.5 to 2.5	Pass
				0	3.80	-15.292	-0.0059	-2.5 to 2.5	Pass
				10	3.80	2.346	0.0009	-2.5 to 2.5	Pass
				30	3.80	-12.159	-0.0047	-2.5 to 2.5	Pass
				40	3.80	-16.365	-0.0064	-2.5 to 2.5	Pass
				50	3.80	-15.235	-0.0059	-2.5 to 2.5	Pass
	2595	50	0	20	3.23	-16.222	-0.0063	-2.5 to 2.5	Pass
					3.80	-7.038	-0.0027	-2.5 to 2.5	Pass
					4.37	-7.253	-0.0028	-2.5 to 2.5	Pass
				-30	3.80	-7.138	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-6.366	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-4.649	-0.0018	-2.5 to 2.5	Pass
				0	3.80	-10.858	-0.0042	-2.5 to 2.5	Pass
				10	3.80	-8.597	-0.0033	-2.5 to 2.5	Pass
				30	3.80	-13.103	-0.0050	-2.5 to 2.5	Pass
				40	3.80	-12.546	-0.0048	-2.5 to 2.5	Pass
				50	3.80	-10.915	-0.0042	-2.5 to 2.5	Pass

	2615	50	0	20	3.23	-7.610	-0.0029	-2.5 to 2.5	Pass
					3.80	-3.033	-0.0012	-2.5 to 2.5	Pass
					4.37	-16.165	-0.0062	-2.5 to 2.5	Pass
				-30	3.80	-9.255	-0.0035	-2.5 to 2.5	Pass
				-20	3.80	-8.955	-0.0034	-2.5 to 2.5	Pass
				-10	3.80	-10.958	-0.0042	-2.5 to 2.5	Pass
				0	3.80	-15.049	-0.0058	-2.5 to 2.5	Pass
				10	3.80	-16.222	-0.0062	-2.5 to 2.5	Pass
				30	3.80	-2.189	-0.0008	-2.5 to 2.5	Pass
				40	3.80	-8.469	-0.0032	-2.5 to 2.5	Pass
				50	3.80	-9.899	-0.0038	-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	3.23	-13.876	-0.0054	-2.5 to 2.5	Pass
					3.80	-12.889	-0.0050	-2.5 to 2.5	Pass
					4.37	-8.111	-0.0031	-2.5 to 2.5	Pass
				-30	3.80	-15.464	-0.0060	-2.5 to 2.5	Pass
				-20	3.80	-8.354	-0.0032	-2.5 to 2.5	Pass
				-10	3.80	-14.105	-0.0055	-2.5 to 2.5	Pass
				0	3.80	-6.695	-0.0026	-2.5 to 2.5	Pass
				10	3.80	-5.064	-0.0020	-2.5 to 2.5	Pass
				30	3.80	-9.356	-0.0036	-2.5 to 2.5	Pass
				40	3.80	-10.800	-0.0042	-2.5 to 2.5	Pass
				50	3.80	-15.650	-0.0061	-2.5 to 2.5	Pass
	2595	75	0	20	3.23	-2.661	-0.0010	-2.5 to 2.5	Pass
					3.80	-7.453	-0.0029	-2.5 to 2.5	Pass
					4.37	-6.180	-0.0024	-2.5 to 2.5	Pass
				-30	3.80	-11.487	-0.0044	-2.5 to 2.5	Pass
				-20	3.80	-14.520	-0.0056	-2.5 to 2.5	Pass
				-10	3.80	-4.635	-0.0018	-2.5 to 2.5	Pass
				0	3.80	-2.575	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-2.246	-0.0009	-2.5 to 2.5	Pass
				30	3.80	-2.089	-0.0008	-2.5 to 2.5	Pass
				40	3.80	-9.127	-0.0035	-2.5 to 2.5	Pass
				50	3.80	-0.987	-0.0004	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.23	-8.268	-0.0032	-2.5 to 2.5	Pass
					3.80	-5.994	-0.0023	-2.5 to 2.5	Pass
					4.37	-9.441	-0.0036	-2.5 to 2.5	Pass
				-30	3.80	-10.085	-0.0039	-2.5 to 2.5	Pass
				-20	3.80	-9.785	-0.0037	-2.5 to 2.5	Pass
				-10	3.80	-8.740	-0.0033	-2.5 to 2.5	Pass
				0	3.80	-10.486	-0.0040	-2.5 to 2.5	Pass
				10	3.80	-17.095	-0.0065	-2.5 to 2.5	Pass
				30	3.80	-8.984	-0.0034	-2.5 to 2.5	Pass
				40	3.80	-0.958	-0.0004	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.23	-12.188	-0.0047	-2.5 to 2.5	Pass
					3.80	-13.604	-0.0053	-2.5 to 2.5	Pass
					4.37	-7.739	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-11.230	-0.0044	-2.5 to 2.5	Pass
				-20	3.80	-4.835	-0.0019	-2.5 to 2.5	Pass
				-10	3.80	-10.386	-0.0040	-2.5 to 2.5	Pass
				0	3.80	-17.996	-0.0070	-2.5 to 2.5	Pass
				10	3.80	-8.240	-0.0032	-2.5 to 2.5	Pass
				30	3.80	-17.638	-0.0068	-2.5 to 2.5	Pass
				40	3.80	-15.879	-0.0062	-2.5 to 2.5	Pass
				50	3.80	-14.734	-0.0057	-2.5 to 2.5	Pass
	2595	75	0	20	3.23	-4.649	-0.0018	-2.5 to 2.5	Pass
					3.80	-8.912	-0.0034	-2.5 to 2.5	Pass
					4.37	-7.181	-0.0028	-2.5 to 2.5	Pass
				-30	3.80	-7.324	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-10.185	-0.0039	-2.5 to 2.5	Pass
				-10	3.80	-4.449	-0.0017	-2.5 to 2.5	Pass
				0	3.80	-10.428	-0.0040	-2.5 to 2.5	Pass
				10	3.80	1.416	0.0005	-2.5 to 2.5	Pass
				30	3.80	-11.501	-0.0044	-2.5 to 2.5	Pass
				40	3.80	-9.027	-0.0035	-2.5 to 2.5	Pass
				50	3.80	-3.490	-0.0013	-2.5 to 2.5	Pass

	2612.5	75	0	20	3.23	-8.640	-0.0033	-2.5 to 2.5	Pass
					3.80	-12.388	-0.0047	-2.5 to 2.5	Pass
					4.37	-11.373	-0.0044	-2.5 to 2.5	Pass
				-30	3.80	-16.379	-0.0063	-2.5 to 2.5	Pass
				-20	3.80	-7.854	-0.0030	-2.5 to 2.5	Pass
				-10	3.80	-5.651	-0.0022	-2.5 to 2.5	Pass
				0	3.80	-7.195	-0.0028	-2.5 to 2.5	Pass
				10	3.80	0.615	0.0002	-2.5 to 2.5	Pass
				30	3.80	-7.181	-0.0027	-2.5 to 2.5	Pass
				40	3.80	-1.388	-0.0005	-2.5 to 2.5	Pass
				50	3.80	-4.277	-0.0016	-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	3.23	-16.794	-0.0065	-2.5 to 2.5	Pass
					3.80	-15.078	-0.0058	-2.5 to 2.5	Pass
					4.37	-6.981	-0.0027	-2.5 to 2.5	Pass
				-30	3.80	-6.866	-0.0027	-2.5 to 2.5	Pass
				-20	3.80	-8.483	-0.0033	-2.5 to 2.5	Pass
				-10	3.80	-8.612	-0.0033	-2.5 to 2.5	Pass
				0	3.80	-10.543	-0.0041	-2.5 to 2.5	Pass
				10	3.80	-7.238	-0.0028	-2.5 to 2.5	Pass
				30	3.80	-6.237	-0.0024	-2.5 to 2.5	Pass
				40	3.80	-5.651	-0.0022	-2.5 to 2.5	Pass
				50	3.80	-1.745	-0.0007	-2.5 to 2.5	Pass
	2595	100	0	20	3.23	-9.084	-0.0035	-2.5 to 2.5	Pass
					3.80	-9.770	-0.0038	-2.5 to 2.5	Pass
					4.37	-8.898	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-3.562	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	-6.766	-0.0026	-2.5 to 2.5	Pass
				-10	3.80	-13.361	-0.0051	-2.5 to 2.5	Pass
				0	3.80	-10.357	-0.0040	-2.5 to 2.5	Pass
				10	3.80	-4.463	-0.0017	-2.5 to 2.5	Pass
				30	3.80	-4.106	-0.0016	-2.5 to 2.5	Pass
				40	3.80	-5.994	-0.0023	-2.5 to 2.5	Pass
				50	3.80	-1.416	-0.0005	-2.5 to 2.5	Pass
	2610	100	0	20	3.23	-16.522	-0.0063	-2.5 to 2.5	Pass
					3.80	-19.212	-0.0074	-2.5 to 2.5	Pass
					4.37	-14.062	-0.0054	-2.5 to 2.5	Pass
				-30	3.80	-9.413	-0.0036	-2.5 to 2.5	Pass
				-20	3.80	-13.905	-0.0053	-2.5 to 2.5	Pass
				-10	3.80	-1.445	-0.0006	-2.5 to 2.5	Pass
				0	3.80	-11.745	-0.0045	-2.5 to 2.5	Pass
				10	3.80	-11.516	-0.0044	-2.5 to 2.5	Pass
				30	3.80	-14.892	-0.0057	-2.5 to 2.5	Pass
				40	3.80	-11.044	-0.0042	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	3.23	-2.804	-0.0011	-2.5 to 2.5	Pass
					3.80	-5.879	-0.0023	-2.5 to 2.5	Pass
					4.37	-10.800	-0.0042	-2.5 to 2.5	Pass
				-30	3.80	-17.996	-0.0070	-2.5 to 2.5	Pass
				-20	3.80	-4.907	-0.0019	-2.5 to 2.5	Pass
				-10	3.80	-6.738	-0.0026	-2.5 to 2.5	Pass
				0	3.80	-11.473	-0.0044	-2.5 to 2.5	Pass
				10	3.80	-5.336	-0.0021	-2.5 to 2.5	Pass
				30	3.80	-10.729	-0.0042	-2.5 to 2.5	Pass
				40	3.80	-5.164	-0.0020	-2.5 to 2.5	Pass
				50	3.80	-6.180	-0.0024	-2.5 to 2.5	Pass
	2595	100	0	20	3.23	-4.506	-0.0017	-2.5 to 2.5	Pass
					3.80	-4.492	-0.0017	-2.5 to 2.5	Pass
					4.37	-5.836	-0.0022	-2.5 to 2.5	Pass
				-30	3.80	-8.626	-0.0033	-2.5 to 2.5	Pass
				-20	3.80	-6.137	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-2.503	-0.0010	-2.5 to 2.5	Pass
				0	3.80	-1.645	-0.0006	-2.5 to 2.5	Pass
				10	3.80	-4.520	-0.0017	-2.5 to 2.5	Pass
				30	3.80	-14.505	-0.0056	-2.5 to 2.5	Pass
				40	3.80	3.333	0.0013	-2.5 to 2.5	Pass
				50	3.80	-1.602	-0.0006	-2.5 to 2.5	Pass

	2610	100	0	20	3.23	-10.028	-0.0038	-2.5 to 2.5	Pass
					3.80	-12.975	-0.0050	-2.5 to 2.5	Pass
					4.37	-10.815	-0.0041	-2.5 to 2.5	Pass
				-30	3.80	-13.418	-0.0051	-2.5 to 2.5	Pass
				-20	3.80	-1.945	-0.0007	-2.5 to 2.5	Pass
				-10	3.80	-13.847	-0.0053	-2.5 to 2.5	Pass
				0	3.80	-14.505	-0.0056	-2.5 to 2.5	Pass
				10	3.80	-8.211	-0.0031	-2.5 to 2.5	Pass
				30	3.80	-1.802	-0.0007	-2.5 to 2.5	Pass
				40	3.80	-15.635	-0.0060	-2.5 to 2.5	Pass
				50	3.80	-2.961	-0.0011	-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

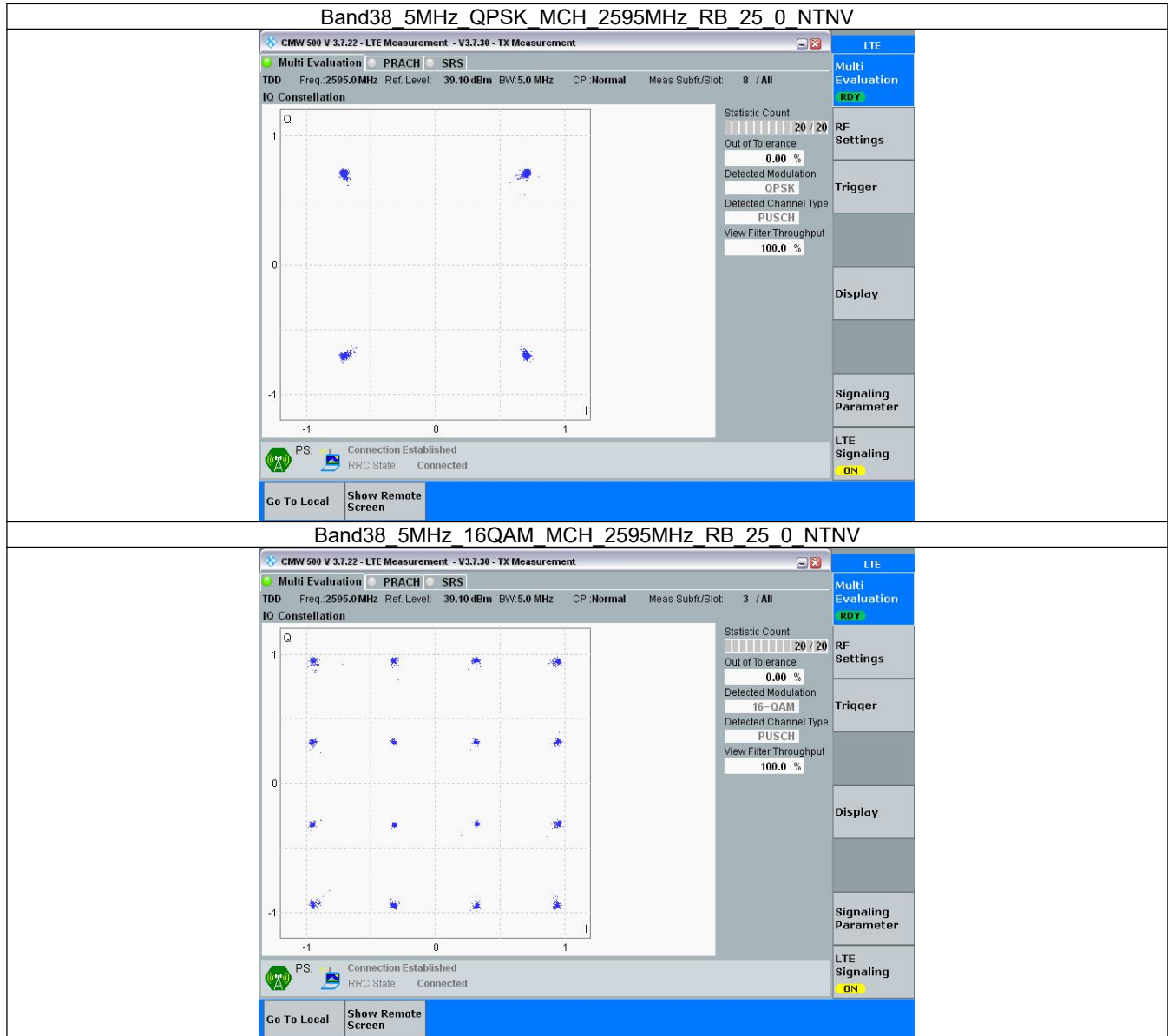
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

3.1.4 B38_20MHz

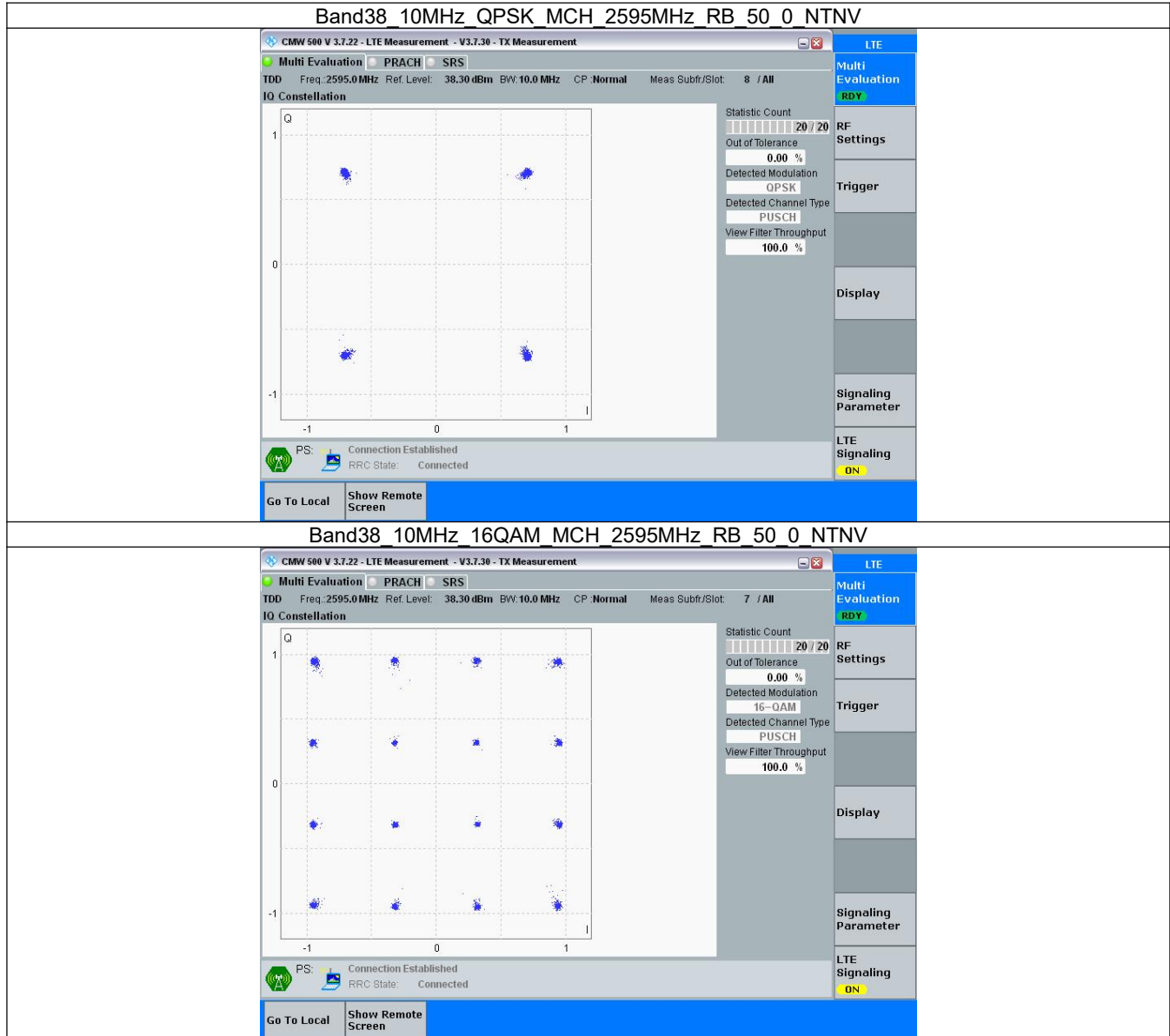
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

3.2 Test Graph

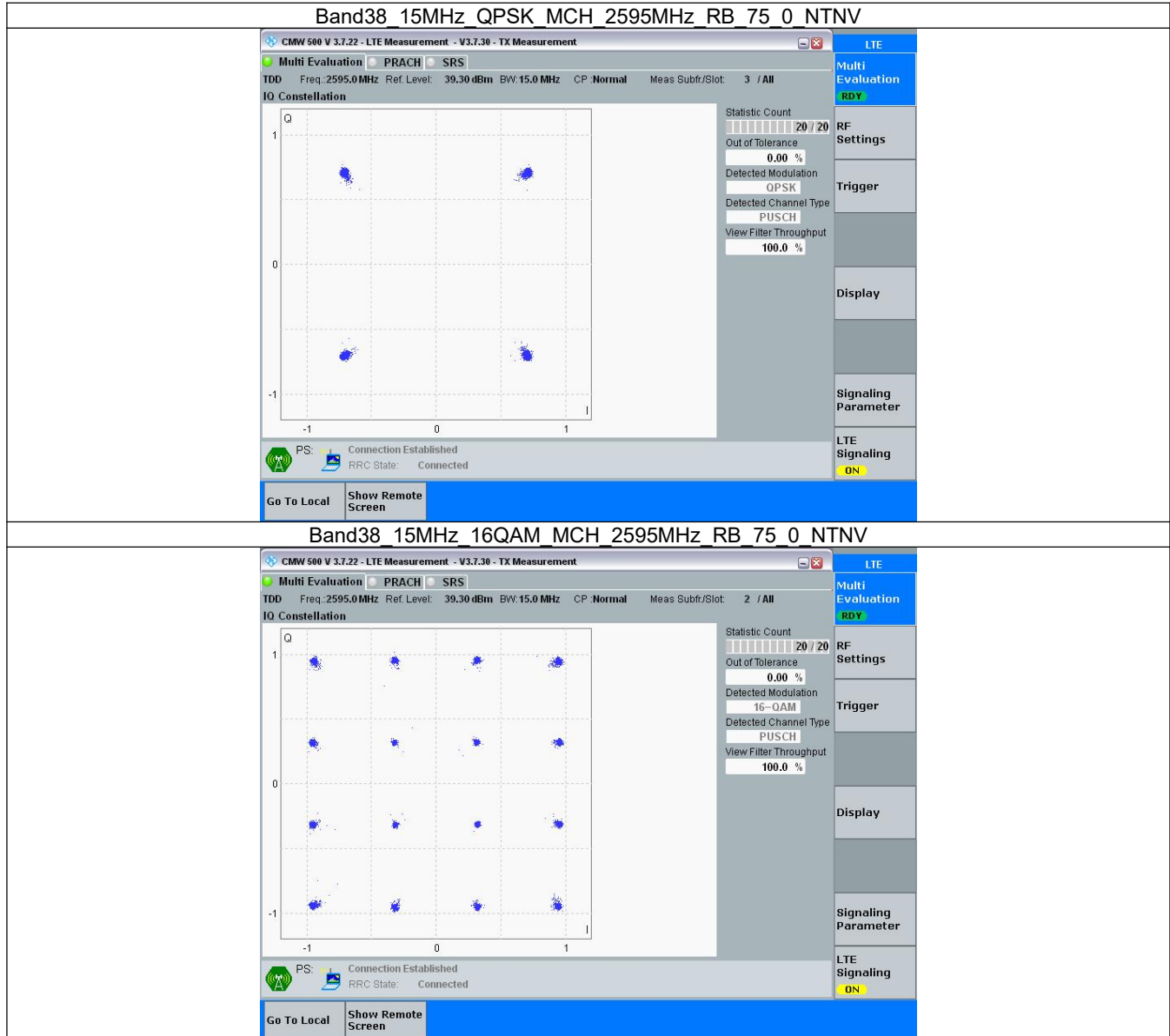
3.2.1 B38_5MHz



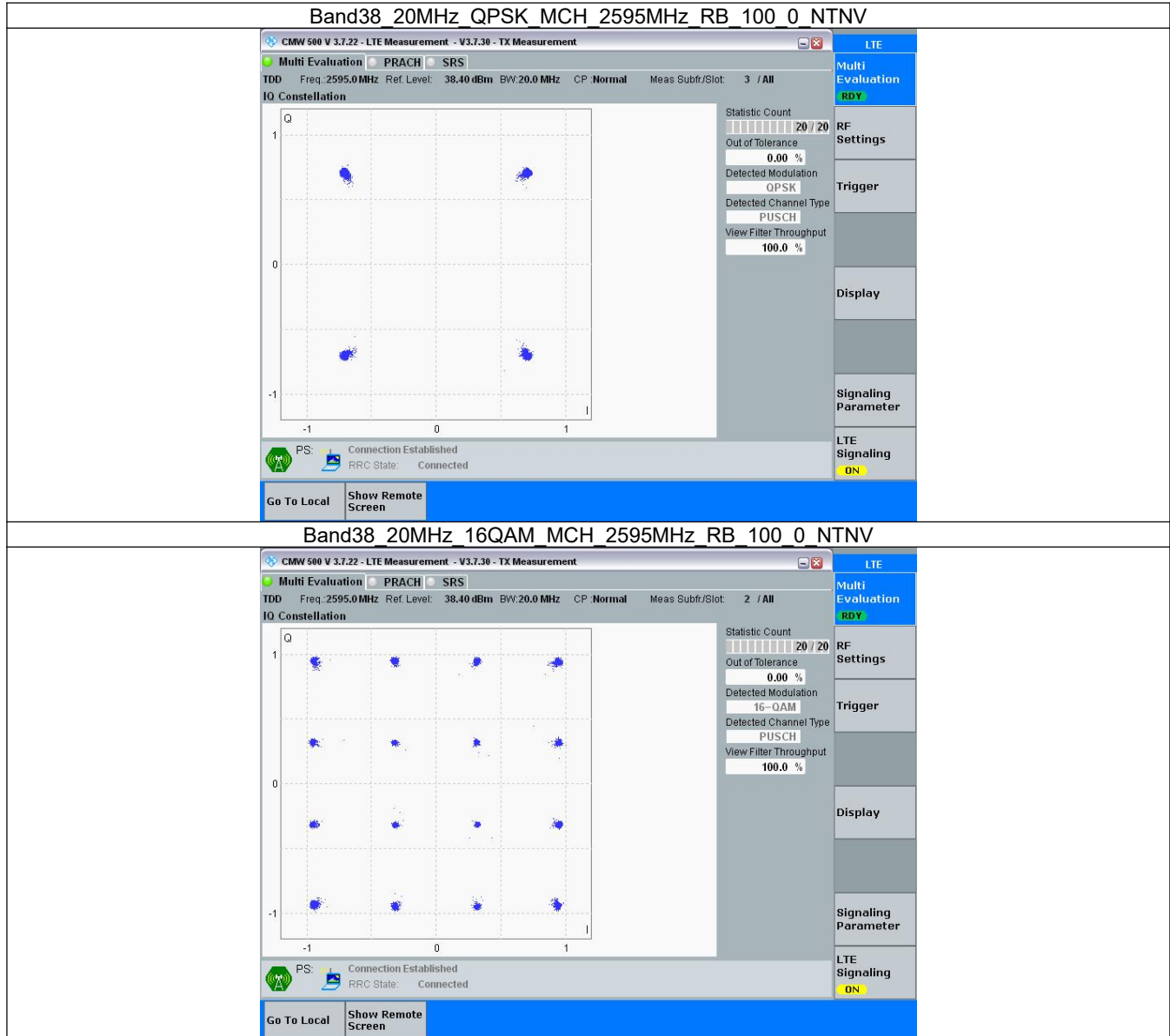
3.2.2 B38_10MHz



3.2.3 B38_15MHz



3.2.4 B38_20MHz



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	4.539	/	Pass
		2595	25	0	4.557	/	Pass
		2617.5	25	0	4.557	/	Pass
	16QAM	2572.5	25	0	4.571	/	Pass
		2595	25	0	4.545	/	Pass
		2617.5	25	0	4.549	/	Pass
10	QPSK	2575	50	0	9.113	/	Pass
		2595	50	0	9.063	/	Pass
		2615	50	0	9.069	/	Pass
	16QAM	2575	50	0	9.055	/	Pass
		2595	50	0	9.051	/	Pass
		2615	50	0	9.104	/	Pass
15	QPSK	2577.5	75	0	13.550	/	Pass
		2595	75	0	13.559	/	Pass
		2612.5	75	0	13.653	/	Pass
	16QAM	2577.5	75	0	13.642	/	Pass
		2595	75	0	13.605	/	Pass
		2612.5	75	0	13.615	/	Pass
20	QPSK	2580	100	0	18.158	/	Pass
		2595	100	0	18.127	/	Pass
		2610	100	0	18.142	/	Pass
	16QAM	2580	100	0	18.139	/	Pass
		2595	100	0	18.087	/	Pass
		2610	100	0	18.130	/	Pass

4.1.2 Band38_XDB

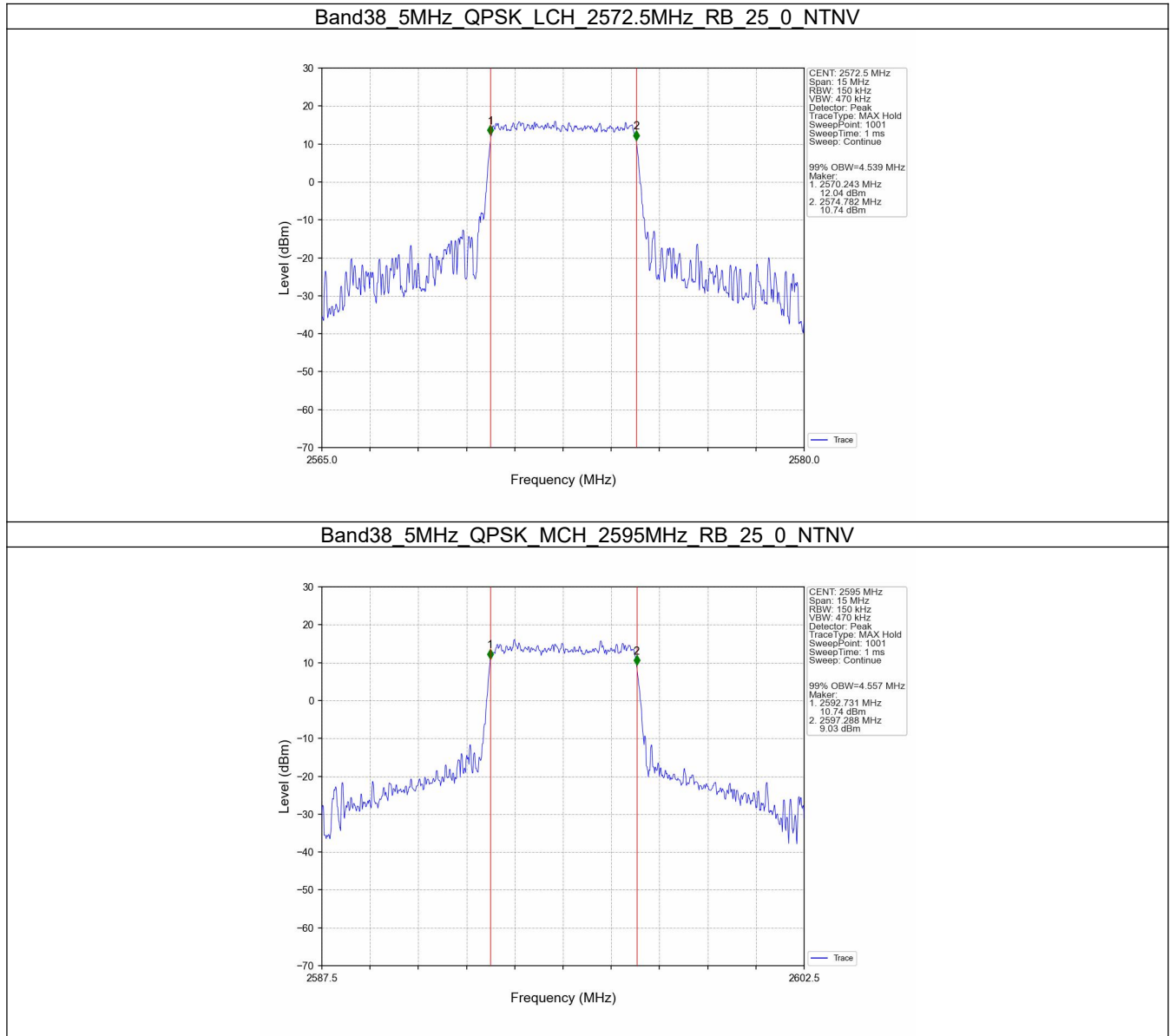
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.141	/	Pass
		2595	25	0	5.042	/	Pass
		2617.5	25	0	5.195	/	Pass
	16QAM	2572.5	25	0	5.091	/	Pass
		2595	25	0	5.367	/	Pass
		2617.5	25	0	5.140	/	Pass
10	QPSK	2575	50	0	11.215	/	Pass
		2595	50	0	10.166	/	Pass
		2615	50	0	9.927	/	Pass
	16QAM	2575	50	0	10.190	/	Pass
		2595	50	0	9.920	/	Pass
		2615	50	0	10.179	/	Pass
15	QPSK	2577.5	75	0	15.387	/	Pass
		2595	75	0	15.133	/	Pass
		2612.5	75	0	16.456	/	Pass
	16QAM	2577.5	75	0	16.791	/	Pass
		2595	75	0	14.844	/	Pass
		2612.5	75	0	15.787	/	Pass
20	QPSK	2580	100	0	22.821	/	Pass



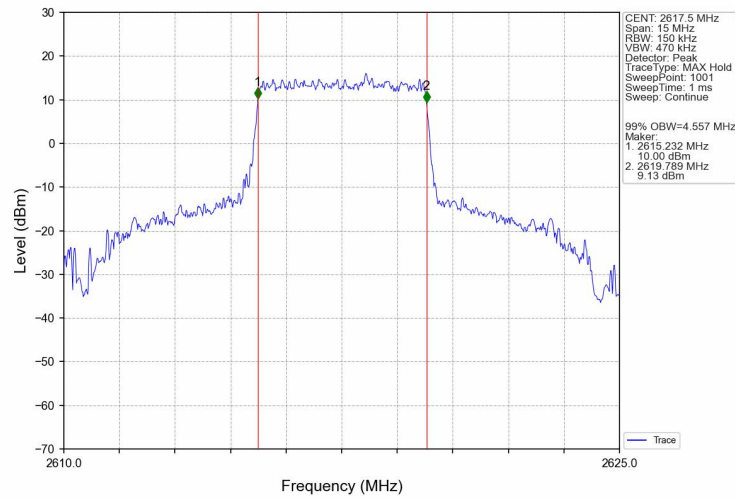
		2595	100	0	19.754	/	Pass
		2610	100	0	20.234	/	Pass
	16QAM	2580	100	0	20.253	/	Pass
		2595	100	0	23.587	/	Pass
		2610	100	0	20.537	/	Pass

4.2 Test Graph

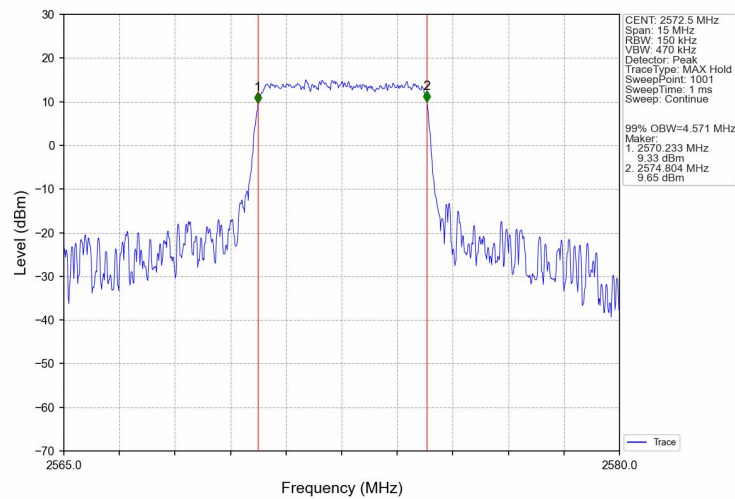
4.2.1 Band38_OBW



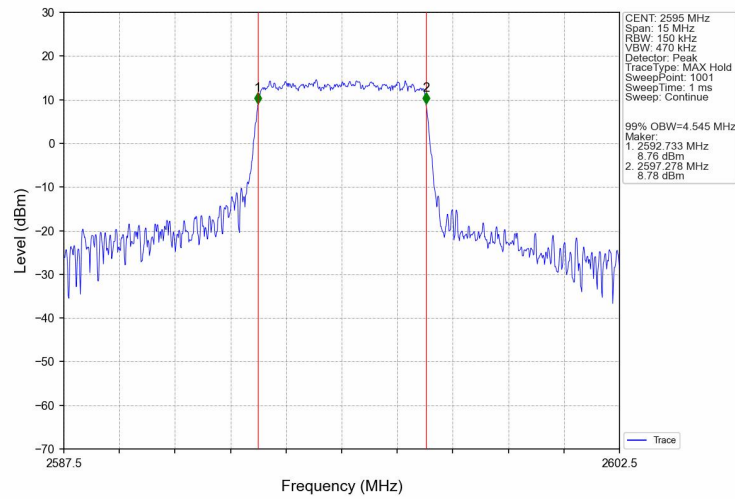
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



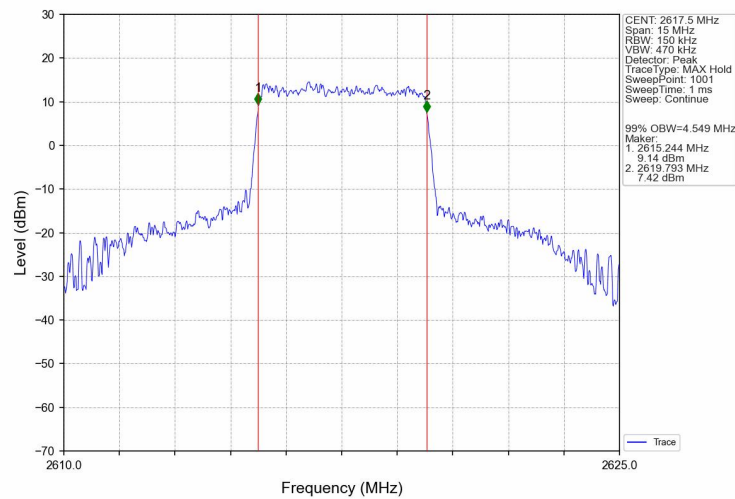
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



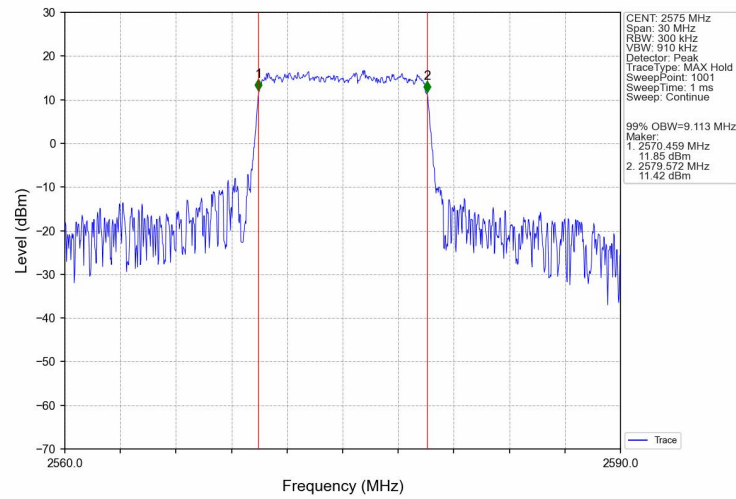
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



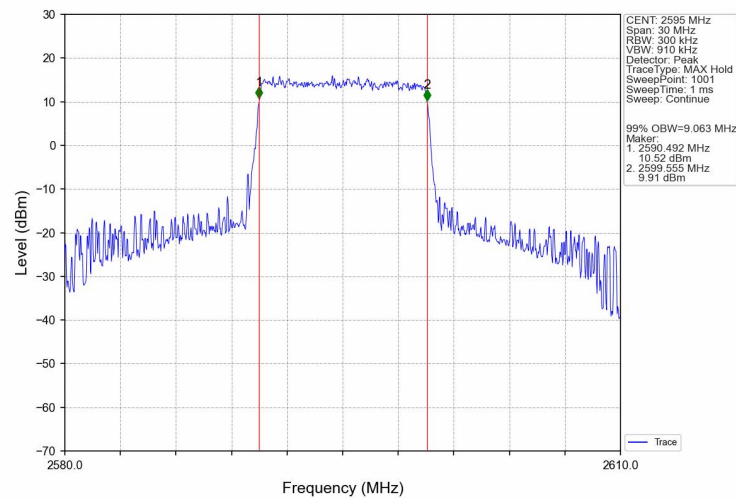
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



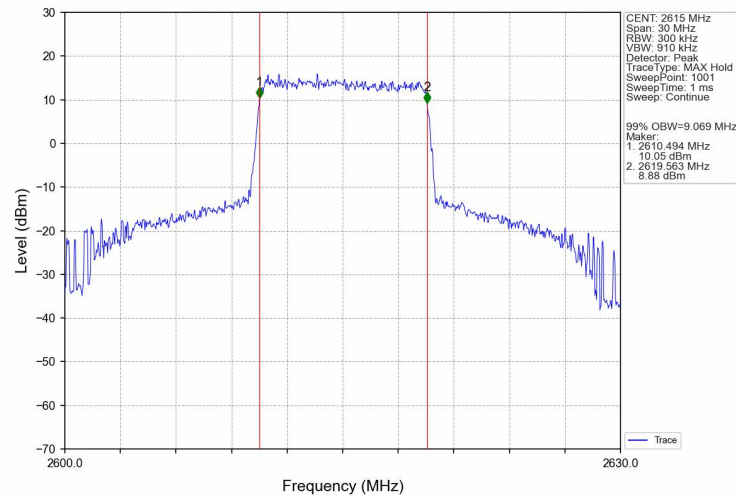
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



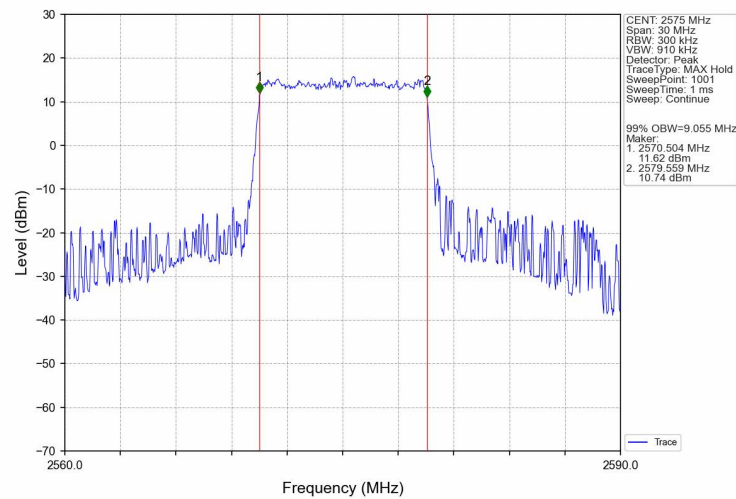
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



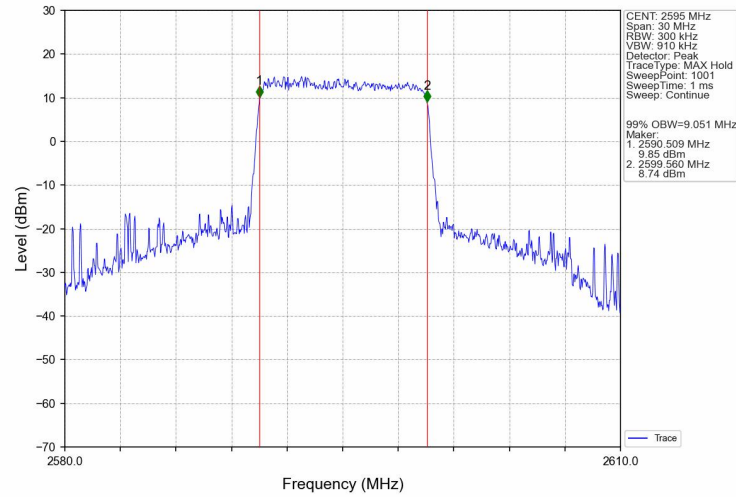
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



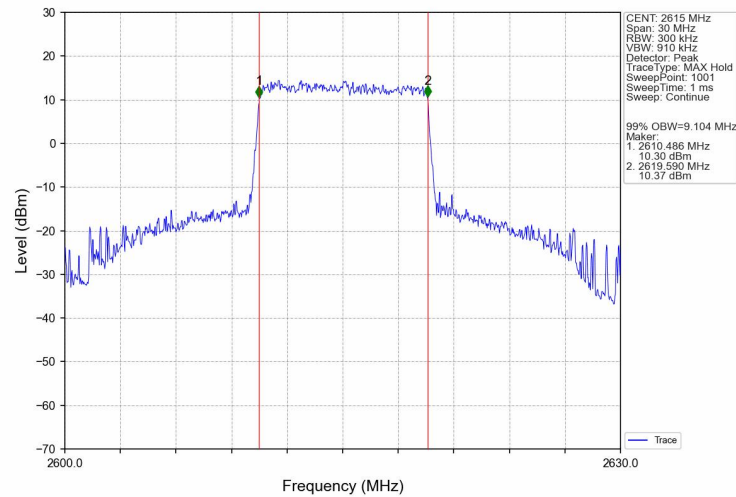
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



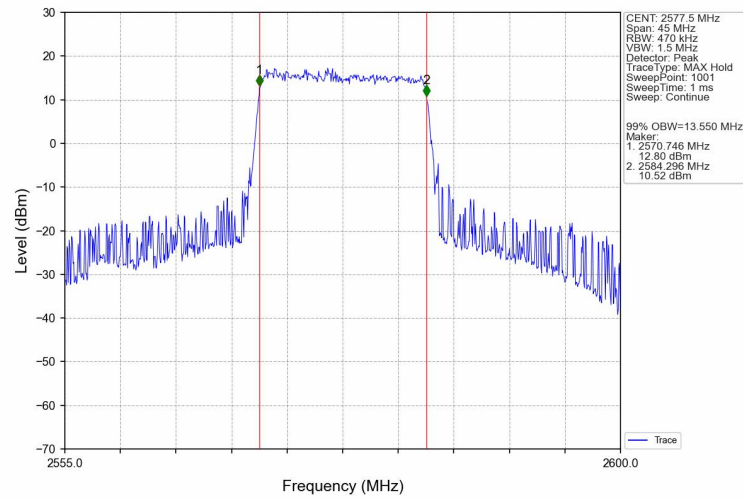
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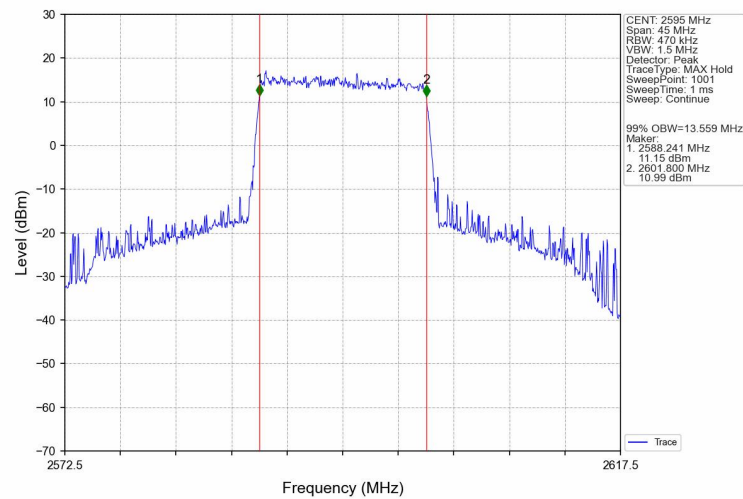
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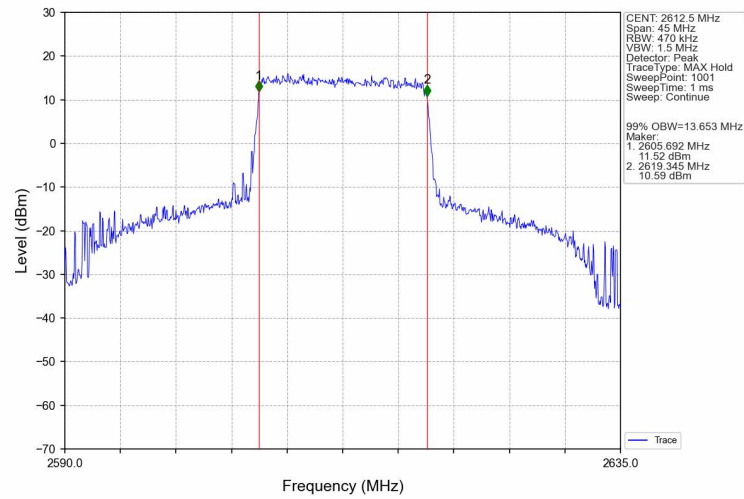
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



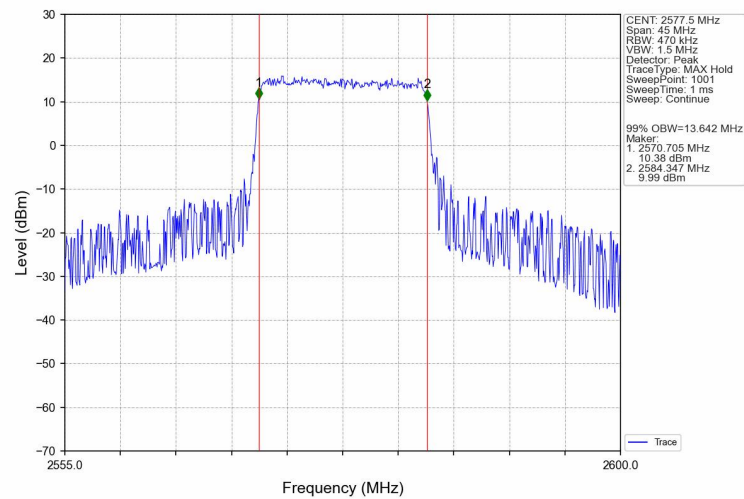
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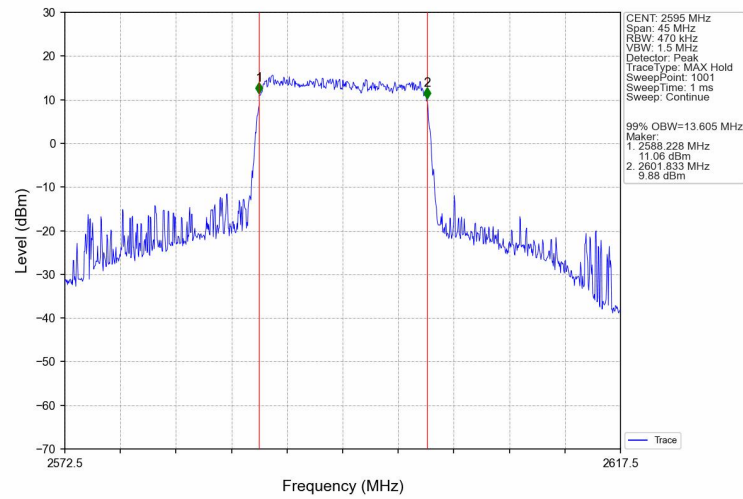
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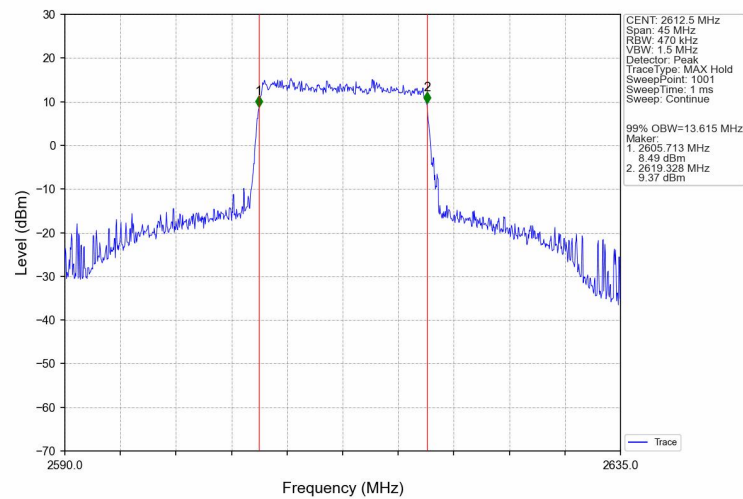
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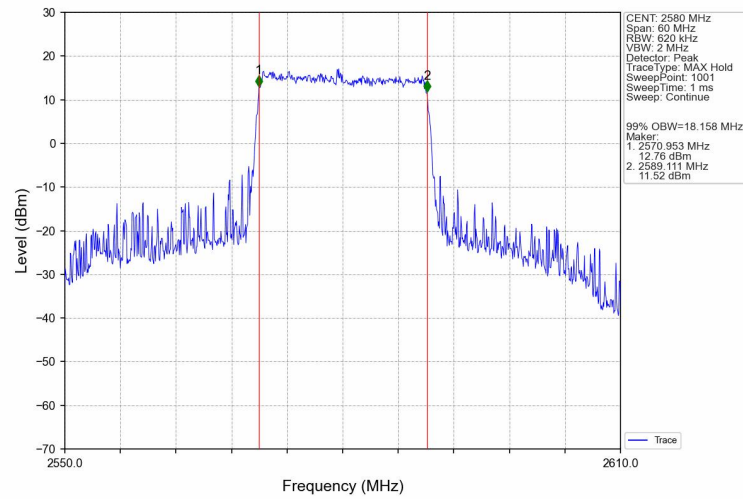
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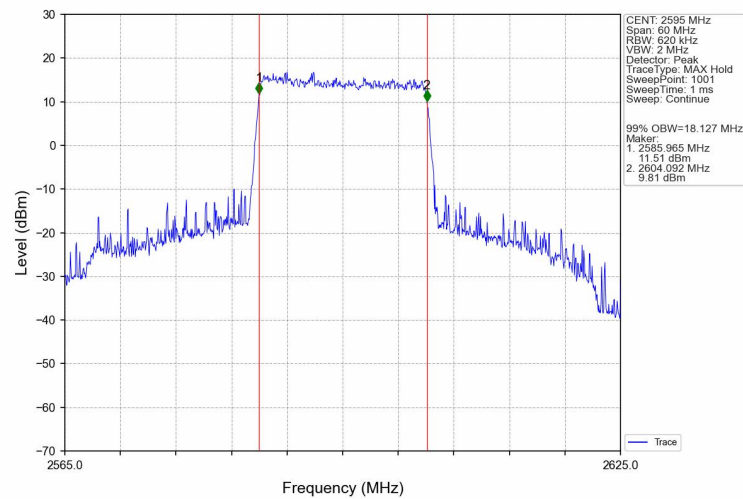
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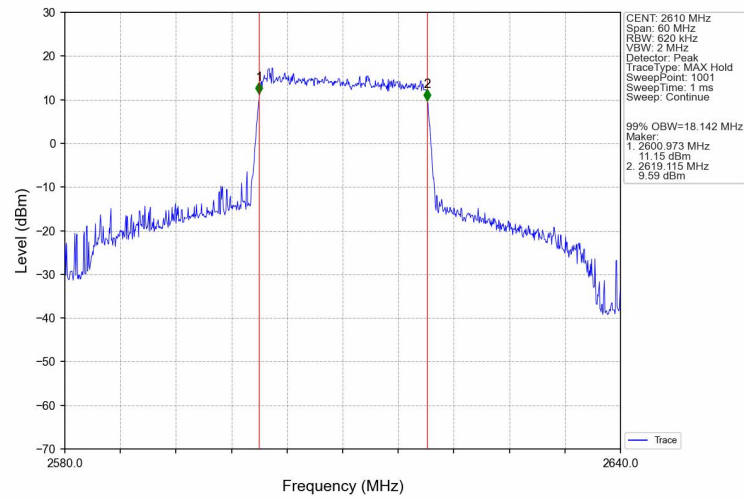
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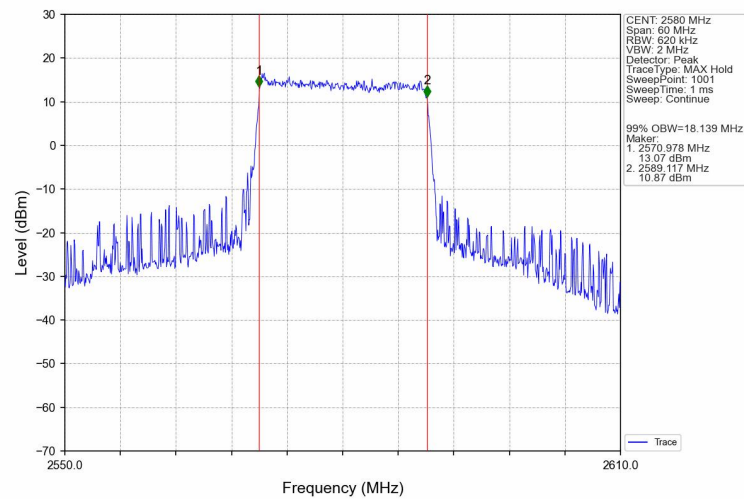
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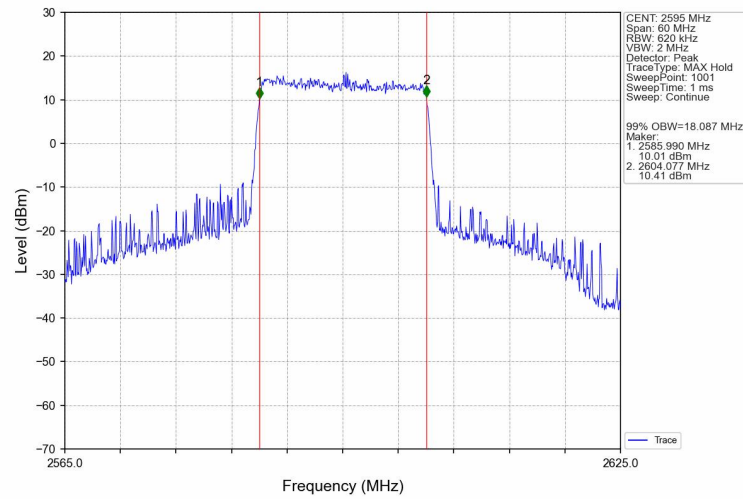
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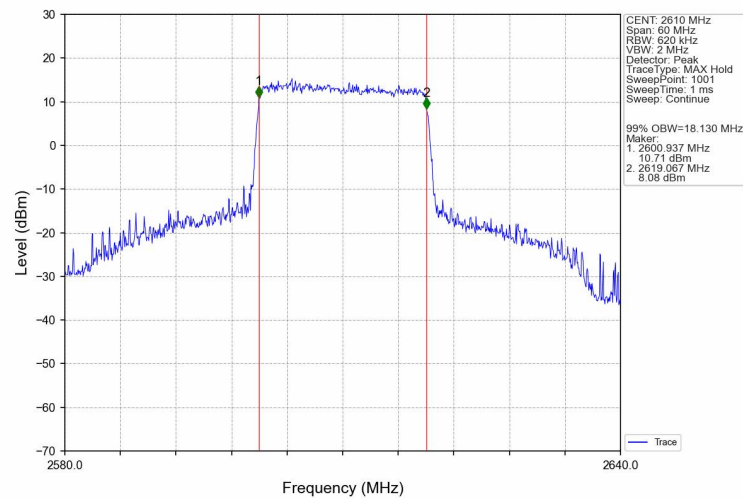
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

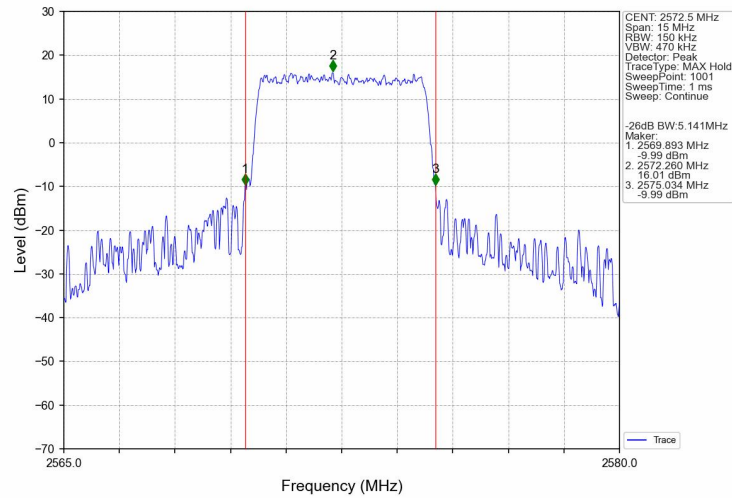


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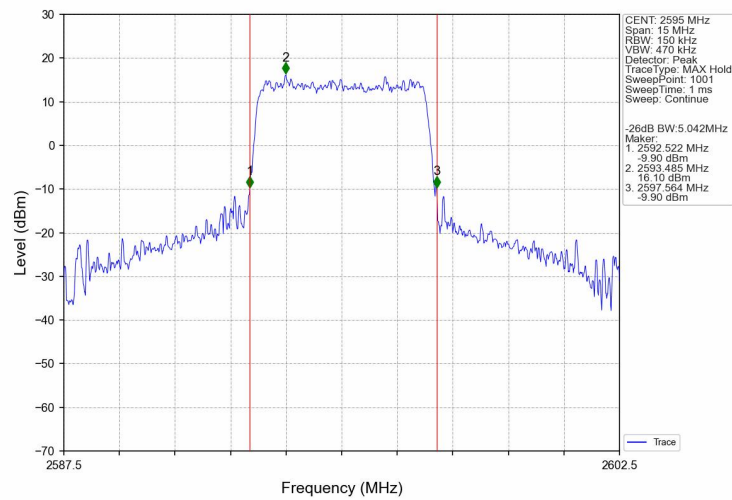


4.2.2 Band38_XDB

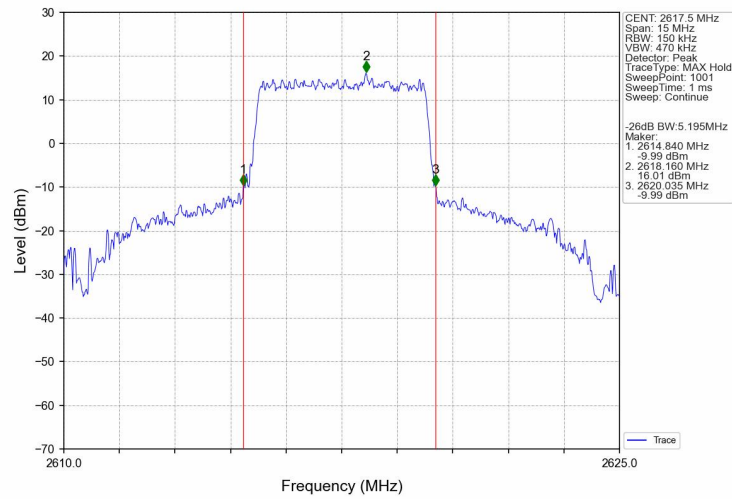
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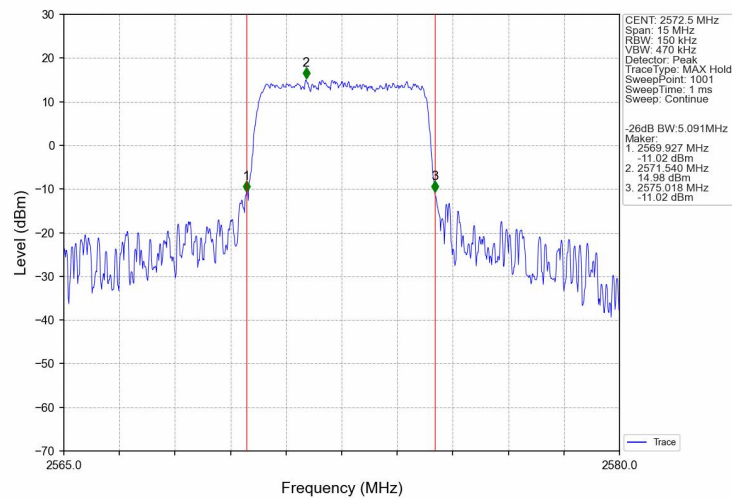
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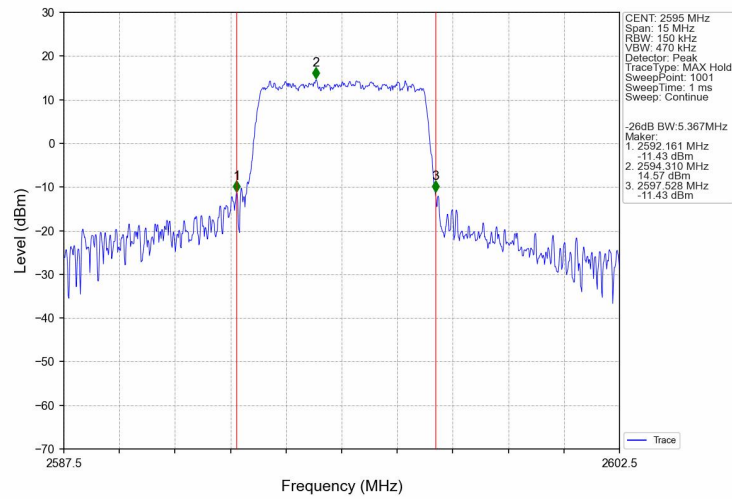
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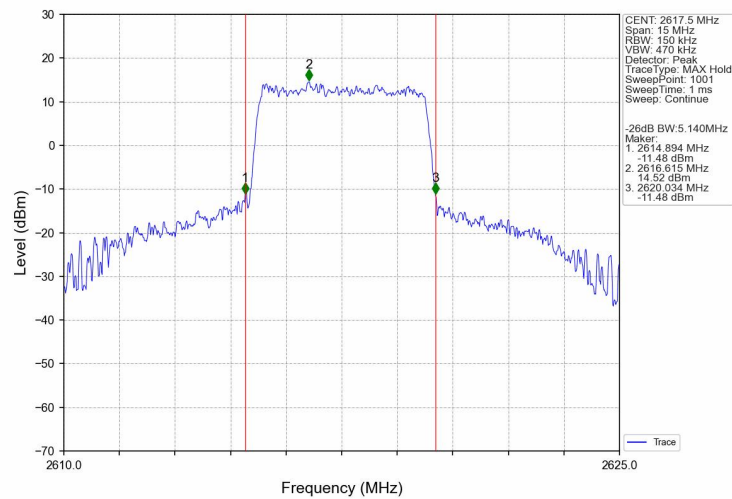
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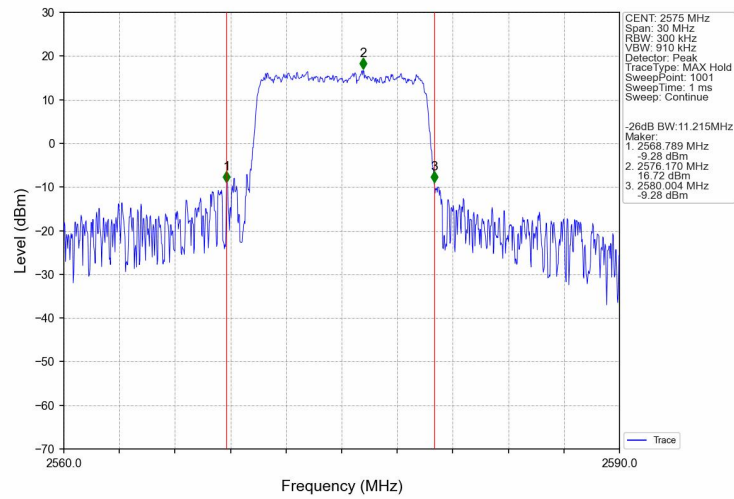
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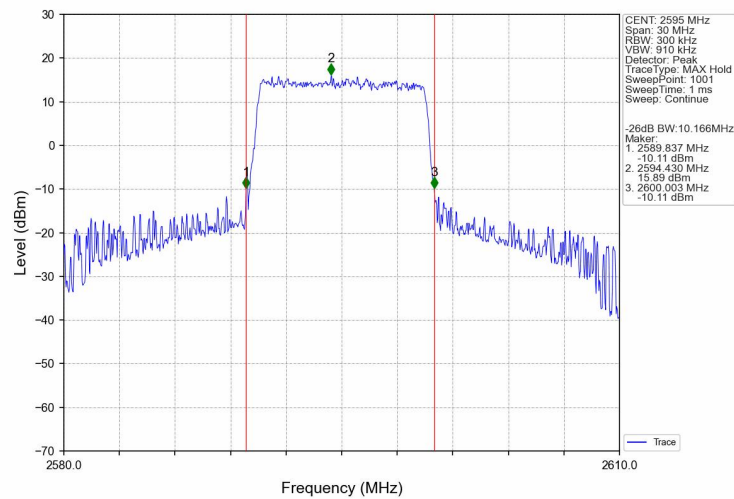
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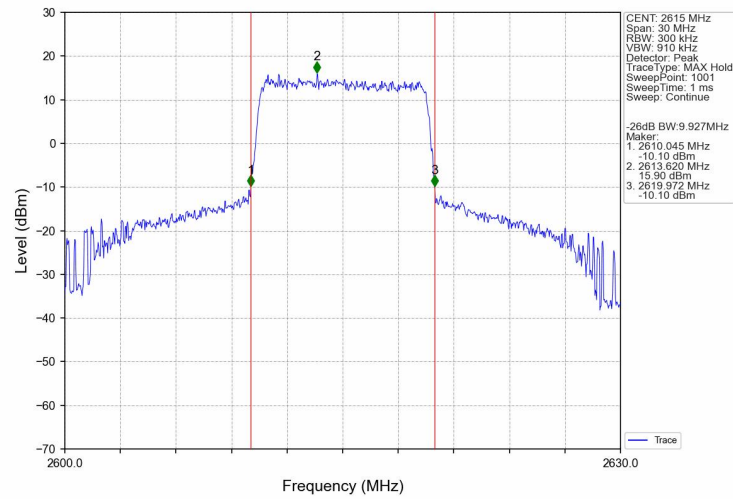
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



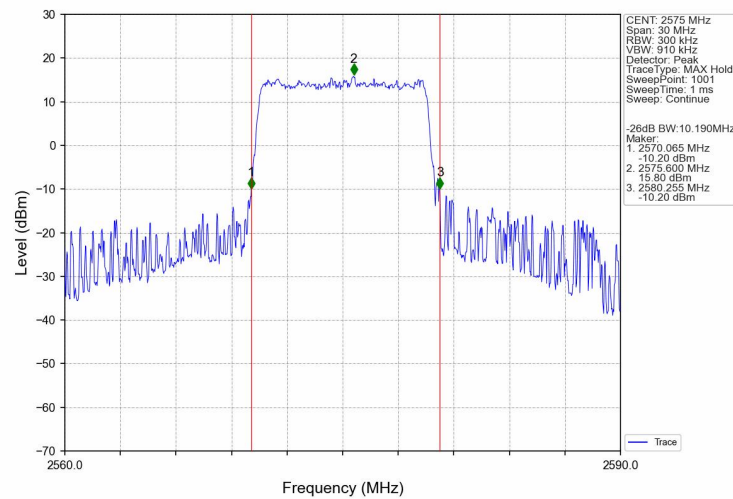
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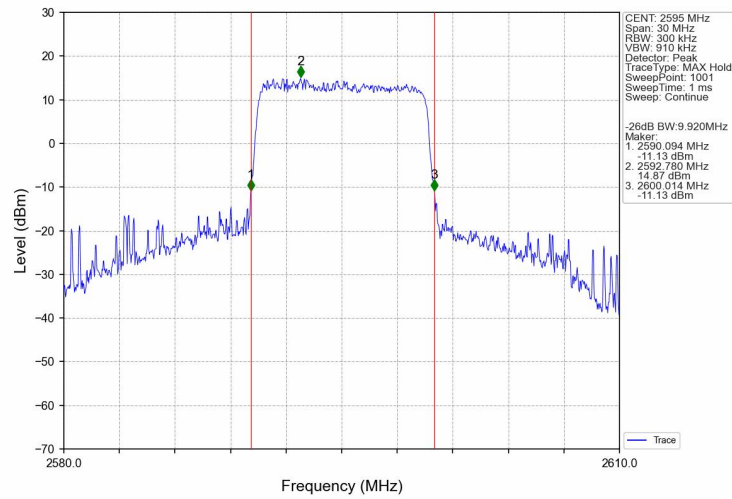
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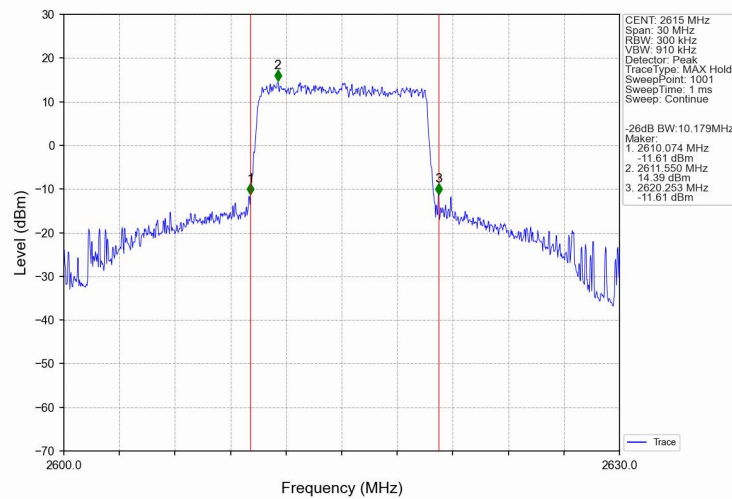
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



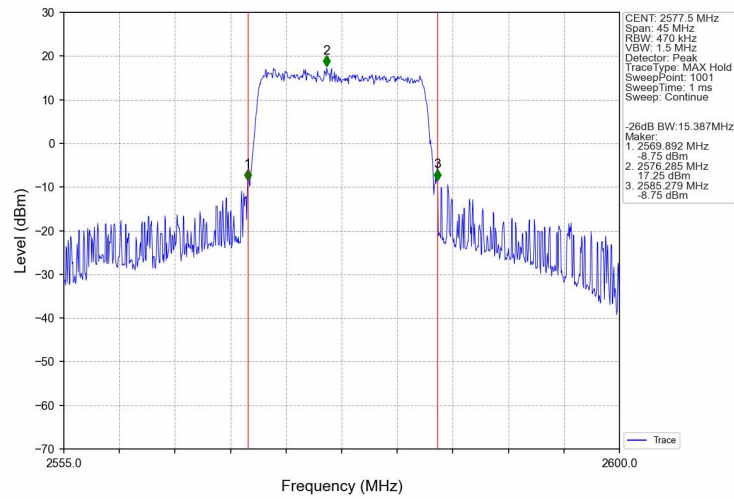
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



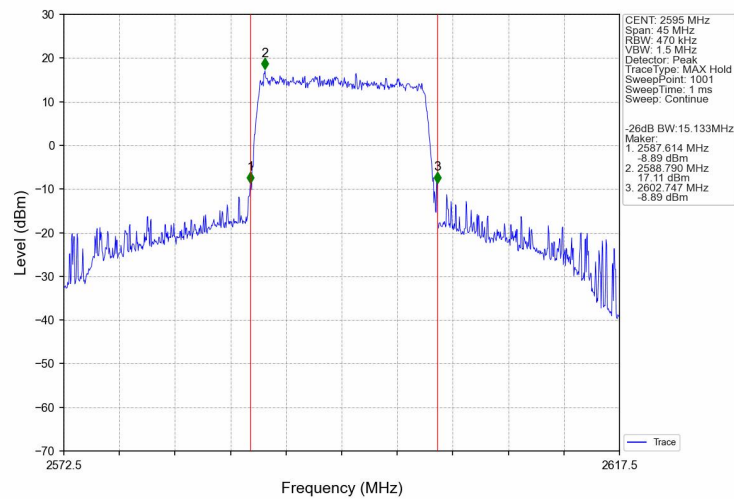
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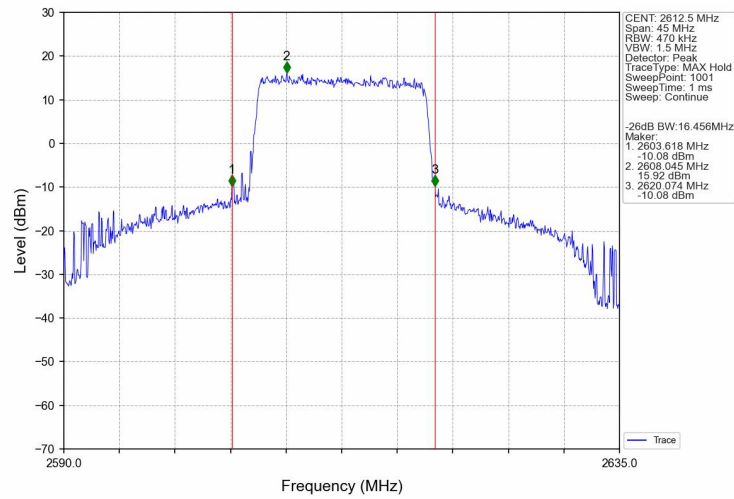
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



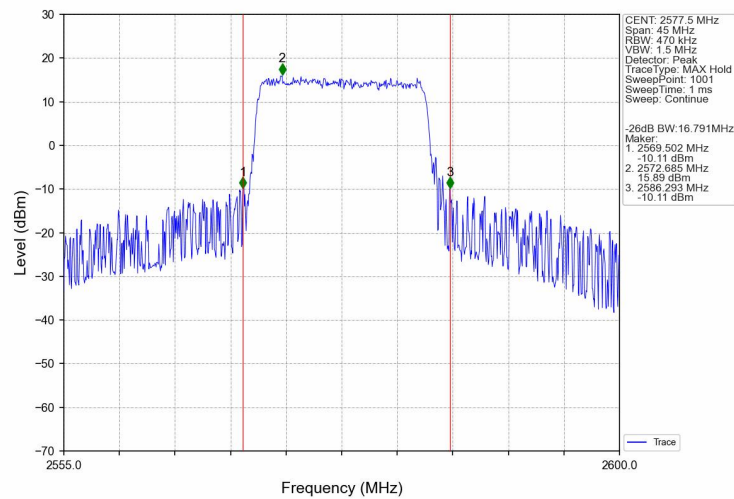
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



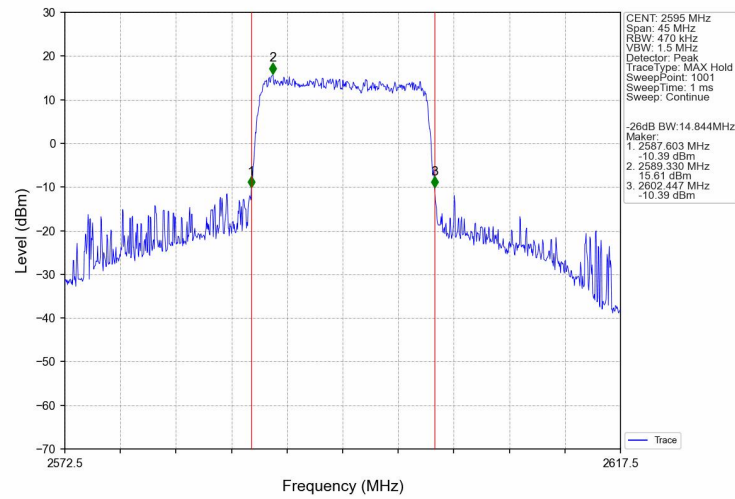
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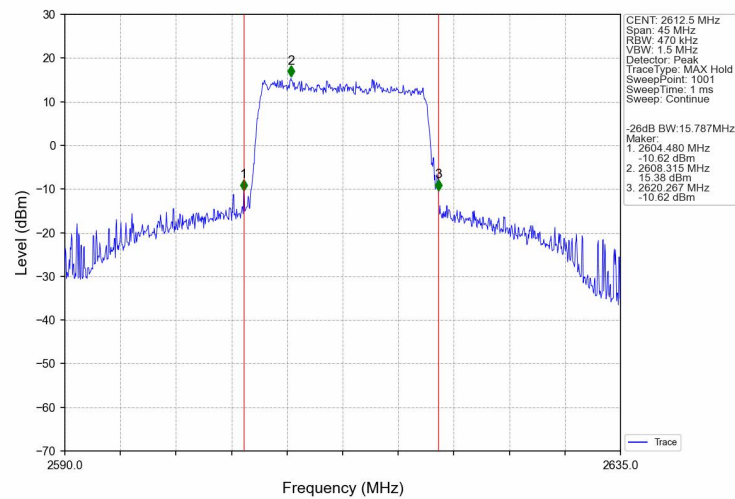
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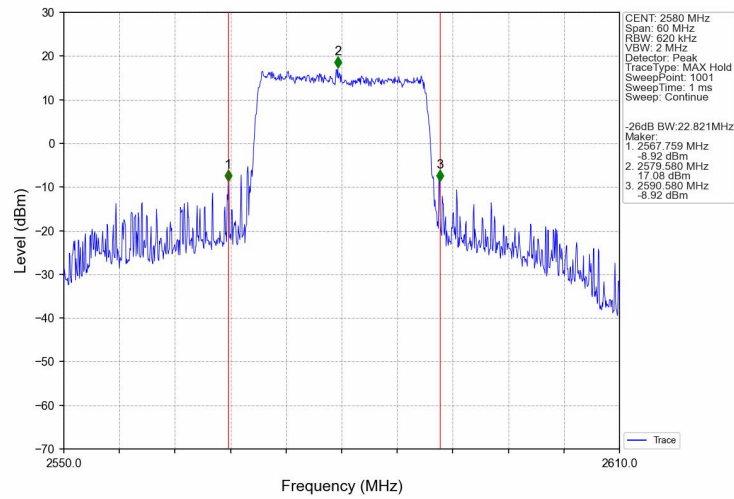
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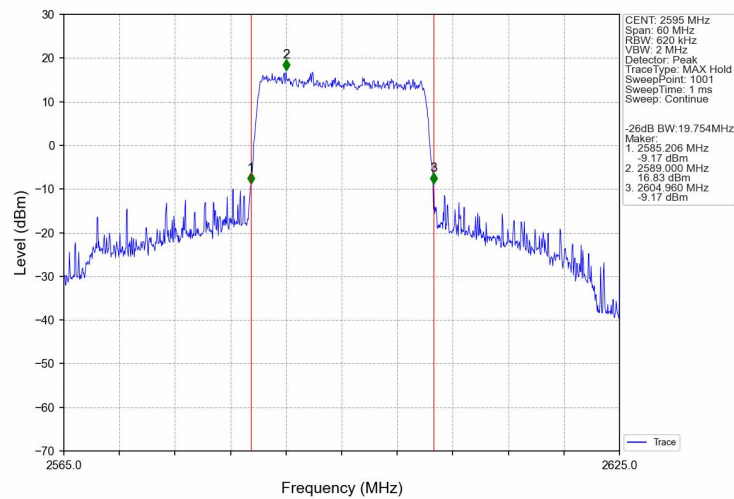
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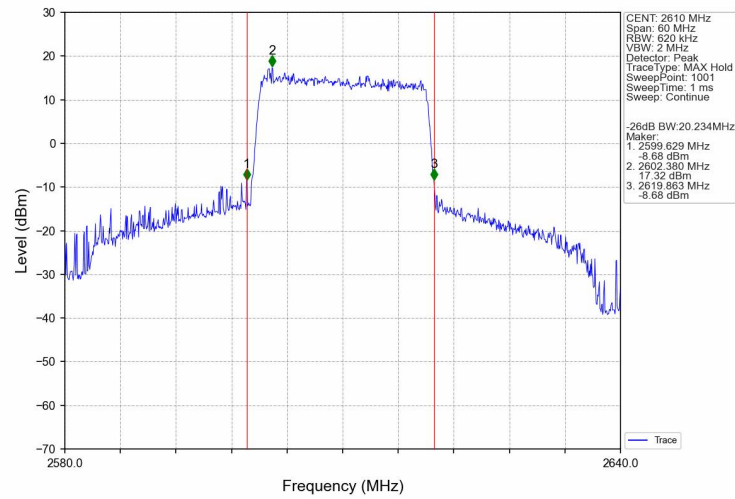
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



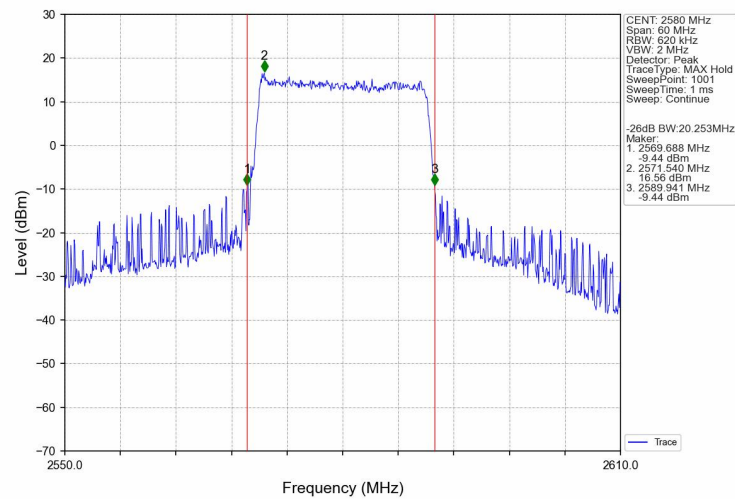
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



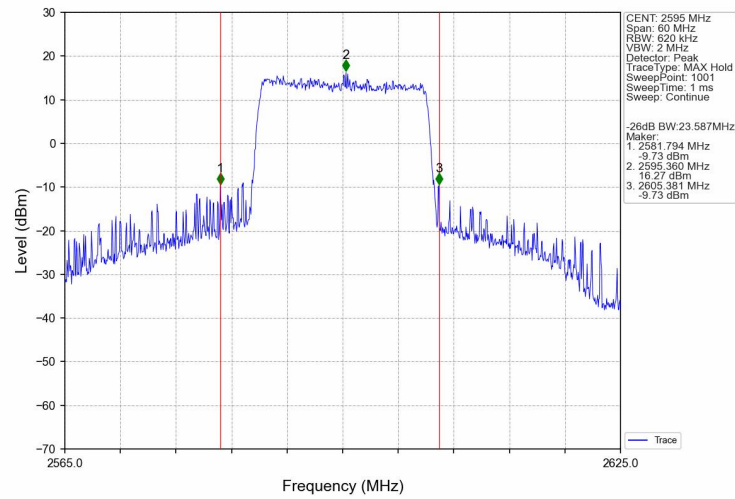
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



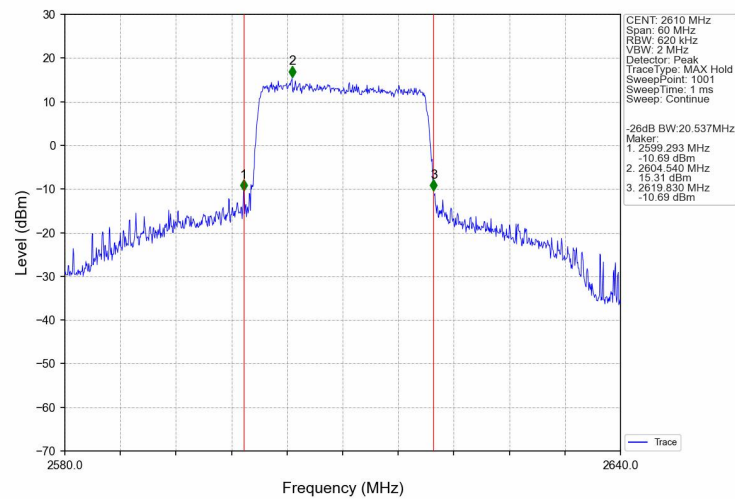
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



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	7.47	<=13	Pass
	2595	25	0	7.19	<=13	Pass
	2617.5	25	0	6.59	<=13	Pass
16QAM	2572.5	25	0	8.06	<=13	Pass
	2595	25	0	7.92	<=13	Pass
	2617.5	25	0	7.20	<=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	7.50	<=13	Pass
	2595	50	0	7.15	<=13	Pass
	2615	50	0	6.69	<=13	Pass
16QAM	2575	50	0	8.21	<=13	Pass
	2595	50	0	7.94	<=13	Pass
	2615	50	0	7.43	<=13	Pass

5.1.3 B38_15MHz

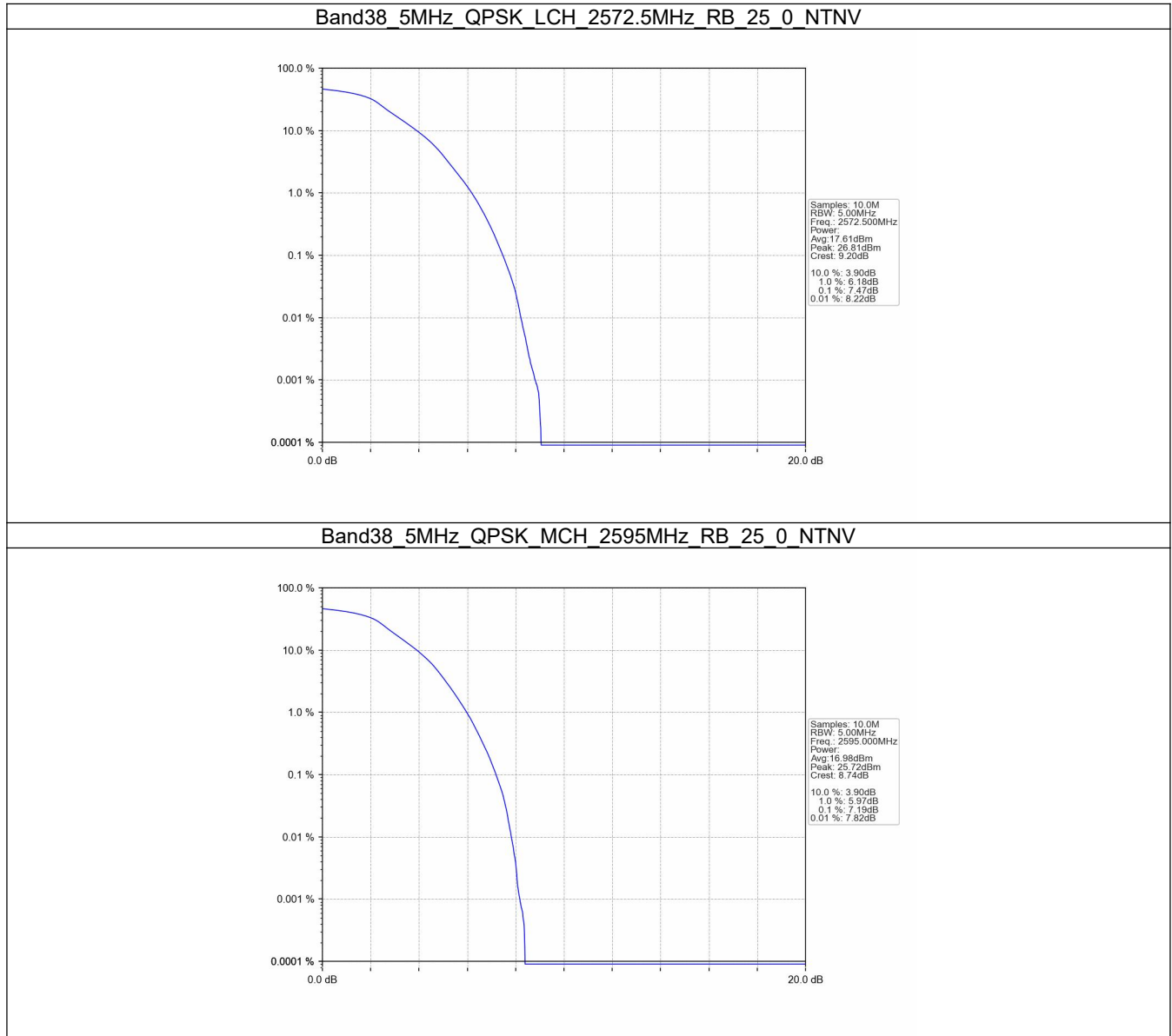
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.02	<=13	Pass
	2595	75	0	7.41	<=13	Pass
	2612.5	75	0	6.86	<=13	Pass
16QAM	2577.5	75	0	8.20	<=13	Pass
	2595	75	0	7.88	<=13	Pass
	2612.5	75	0	7.74	<=13	Pass

5.1.4 B38_20MHz

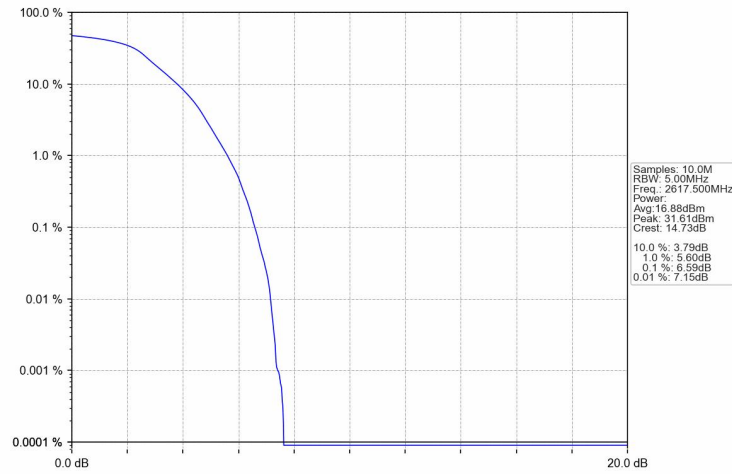
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.74	<=13	Pass
	2595	100	0	7.68	<=13	Pass
	2610	100	0	7.80	<=13	Pass
16QAM	2580	100	0	8.40	<=13	Pass
	2595	100	0	8.48	<=13	Pass
	2610	100	0	8.44	<=13	Pass

5.2 Test Graph

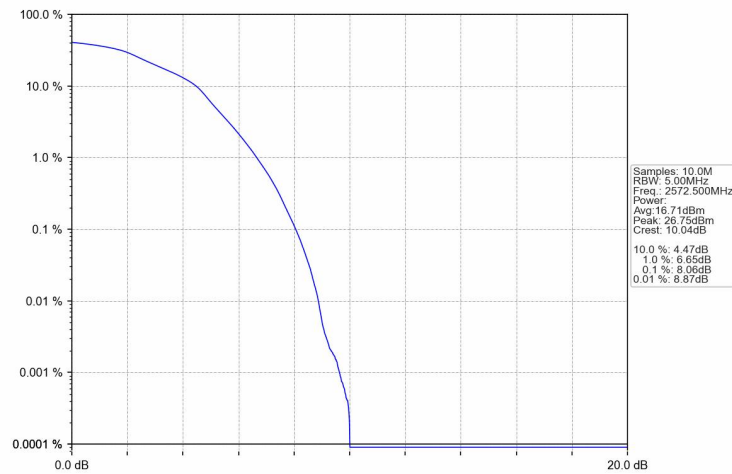
5.2.1 B38_5MHz



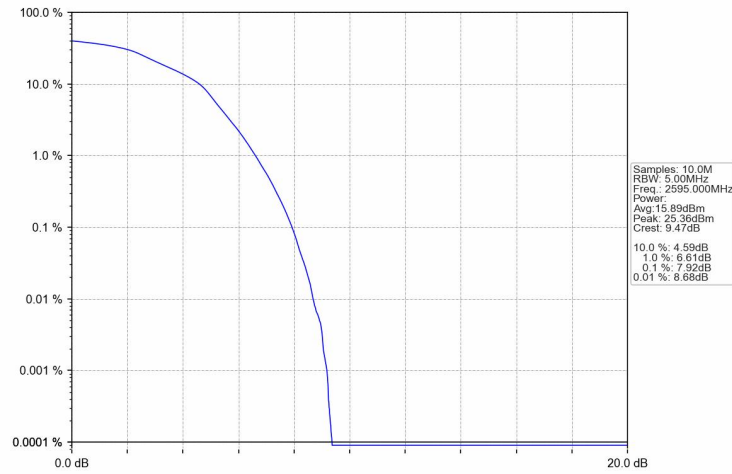
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



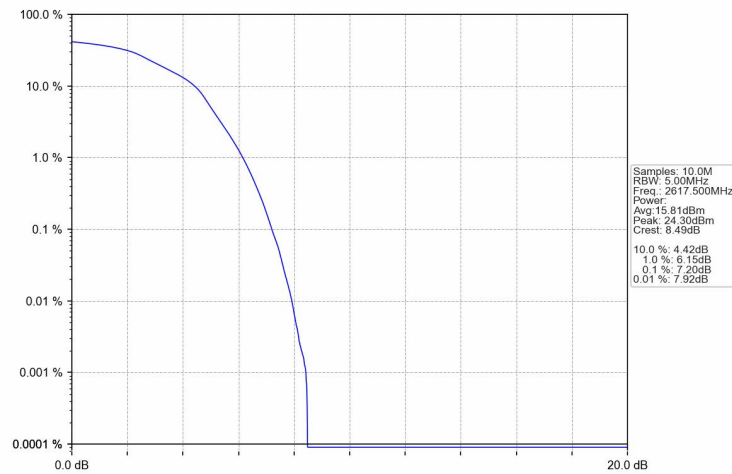
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV

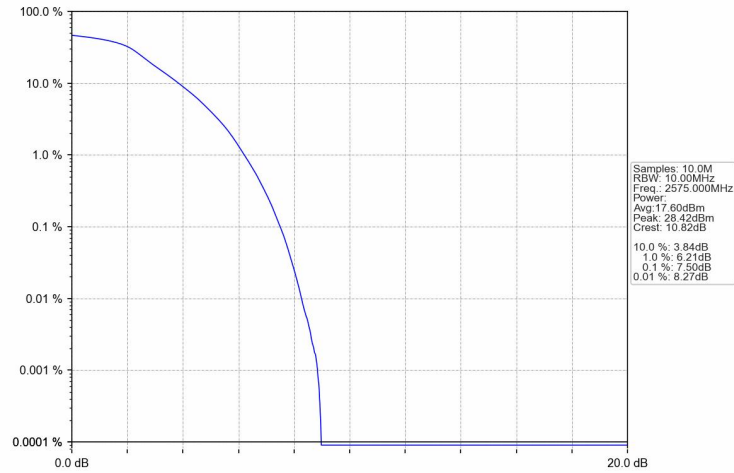


Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



5.2.2 B38_10MHz

Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV

