

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	22.63	1.70	24.33	<=33.01	Pass
			13	22.71	1.70	24.41	<=33.01	Pass
			24	22.69	1.70	24.39	<=33.01	Pass
		12	0	21.65	1.70	23.35	<=33.01	Pass
			6	21.60	1.70	23.30	<=33.01	Pass
			13	21.61	1.70	23.31	<=33.01	Pass
		25	0	21.61	1.70	23.31	<=33.01	Pass
	2595	1	0	22.74	1.70	24.44	<=33.01	Pass
			13	22.81	1.70	24.51	<=33.01	Pass
			24	22.72	1.70	24.42	<=33.01	Pass
		12	0	21.74	1.70	23.44	<=33.01	Pass
			6	21.72	1.70	23.42	<=33.01	Pass
			13	21.71	1.70	23.41	<=33.01	Pass
		25	0	21.76	1.70	23.46	<=33.01	Pass
	2617.5	1	0	22.89	1.70	24.59	<=33.01	Pass
			13	22.97	1.70	24.67	<=33.01	Pass
			24	23.02	1.70	24.72	<=33.01	Pass
		12	0	21.92	1.70	23.62	<=33.01	Pass
			6	21.94	1.70	23.64	<=33.01	Pass
			13	21.94	1.70	23.64	<=33.01	Pass
		25	0	21.96	1.70	23.66	<=33.01	Pass
16QAM	2572.5	1	0	21.66	1.70	23.36	<=33.01	Pass
			13	21.93	1.70	23.63	<=33.01	Pass
			24	21.90	1.70	23.60	<=33.01	Pass
		12	0	20.65	1.70	22.35	<=33.01	Pass
			6	20.66	1.70	22.36	<=33.01	Pass
			13	20.61	1.70	22.31	<=33.01	Pass
		25	0	20.61	1.70	22.31	<=33.01	Pass
	2595	1	0	21.75	1.70	23.45	<=33.01	Pass
			13	21.91	1.70	23.61	<=33.01	Pass
			24	21.78	1.70	23.48	<=33.01	Pass
		12	0	20.69	1.70	22.39	<=33.01	Pass
			6	20.72	1.70	22.42	<=33.01	Pass
			13	20.69	1.70	22.39	<=33.01	Pass
		25	0	20.73	1.70	22.43	<=33.01	Pass
	2617.5	1	0	21.90	1.70	23.60	<=33.01	Pass
			13	21.64	1.70	23.34	<=33.01	Pass
			24	22.11	1.70	23.81	<=33.01	Pass
		12	0	20.86	1.70	22.56	<=33.01	Pass
			6	20.87	1.70	22.57	<=33.01	Pass
			13	21.00	1.70	22.70	<=33.01	Pass
		25	0	20.95	1.70	22.65	<=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	22.38	1.70	24.08	<=33.01	Pass
			25	22.37	1.70	24.07	<=33.01	Pass
			49	22.49	1.70	24.19	<=33.01	Pass
		25	0	21.45	1.70	23.15	<=33.01	Pass
			13	21.43	1.70	23.13	<=33.01	Pass
			25	21.42	1.70	23.12	<=33.01	Pass
		50	0	21.44	1.70	23.14	<=33.01	Pass
	2595	1	0	22.52	1.70	24.22	<=33.01	Pass
			25	22.53	1.70	24.23	<=33.01	Pass
			49	22.58	1.70	24.28	<=33.01	Pass
		25	0	21.54	1.70	23.24	<=33.01	Pass
			13	21.57	1.70	23.27	<=33.01	Pass
			25	21.52	1.70	23.22	<=33.01	Pass
		50	0	21.54	1.70	23.24	<=33.01	Pass
	2615	1	0	22.69	1.70	24.39	<=33.01	Pass
			25	22.87	1.70	24.57	<=33.01	Pass
			49	22.84	1.70	24.54	<=33.01	Pass
		25	0	21.64	1.70	23.34	<=33.01	Pass
			13	21.69	1.70	23.39	<=33.01	Pass
			25	21.73	1.70	23.43	<=33.01	Pass
		50	0	21.70	1.70	23.40	<=33.01	Pass
16QAM	2575	1	0	21.33	1.70	23.03	<=33.01	Pass
			25	21.43	1.70	23.13	<=33.01	Pass
			49	21.19	1.70	22.89	<=33.01	Pass
		25	0	20.44	1.70	22.14	<=33.01	Pass
			13	20.37	1.70	22.07	<=33.01	Pass
			25	20.42	1.70	22.12	<=33.01	Pass
		50	0	20.37	1.70	22.07	<=33.01	Pass
	2595	1	0	21.40	1.70	23.10	<=33.01	Pass
			25	21.40	1.70	23.10	<=33.01	Pass
			49	21.42	1.70	23.12	<=33.01	Pass
		25	0	20.52	1.70	22.22	<=33.01	Pass
			13	20.56	1.70	22.26	<=33.01	Pass
			25	20.57	1.70	22.27	<=33.01	Pass
		50	0	20.47	1.70	22.17	<=33.01	Pass
	2615	1	0	21.47	1.70	23.17	<=33.01	Pass
			25	21.83	1.70	23.53	<=33.01	Pass
			49	21.62	1.70	23.32	<=33.01	Pass
		25	0	20.72	1.70	22.42	<=33.01	Pass
			13	20.78	1.70	22.48	<=33.01	Pass
			25	20.78	1.70	22.48	<=33.01	Pass
		50	0	20.73	1.70	22.43	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B38_15MHz_EIRP

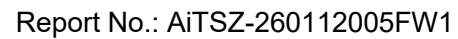
Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	22.28	1.70	23.98	<=33.01	Pass
			38	22.56	1.70	24.26	<=33.01	Pass
			74	22.44	1.70	24.14	<=33.01	Pass
		36	0	21.39	1.70	23.09	<=33.01	Pass
			18	21.47	1.70	23.17	<=33.01	Pass

	2595		39	21.53	1.70	23.23	<=33.01	Pass		
		75	0	21.46	1.70	23.16	<=33.01	Pass		
		1	0	22.43	1.70	24.13	<=33.01	Pass		
			38	22.52	1.70	24.22	<=33.01	Pass		
			74	22.46	1.70	24.16	<=33.01	Pass		
		36	0	21.54	1.70	23.24	<=33.01	Pass		
			18	21.53	1.70	23.23	<=33.01	Pass		
			39	21.53	1.70	23.23	<=33.01	Pass		
		75	0	21.51	1.70	23.21	<=33.01	Pass		
	2612.5	1	0	22.66	1.70	24.36	<=33.01	Pass		
			38	22.77	1.70	24.47	<=33.01	Pass		
			74	22.86	1.70	24.56	<=33.01	Pass		
		36	0	21.60	1.70	23.30	<=33.01	Pass		
			18	21.63	1.70	23.33	<=33.01	Pass		
			39	21.67	1.70	23.37	<=33.01	Pass		
		75	0	21.68	1.70	23.38	<=33.01	Pass		
		16QAM	2577.5	1	0	21.46	1.70	23.16	<=33.01	Pass
					38	21.28	1.70	22.98	<=33.01	Pass
74	21.30				1.70	23.00	<=33.01	Pass		
36	0			20.50	1.70	22.20	<=33.01	Pass		
	18			20.43	1.70	22.13	<=33.01	Pass		
	39			20.50	1.70	22.20	<=33.01	Pass		
75	0			20.51	1.70	22.21	<=33.01	Pass		
2595	1			0	21.35	1.70	23.05	<=33.01	Pass	
				38	21.45	1.70	23.15	<=33.01	Pass	
			74	21.29	1.70	22.99	<=33.01	Pass		
	36		0	20.48	1.70	22.18	<=33.01	Pass		
			18	20.54	1.70	22.24	<=33.01	Pass		
			39	20.56	1.70	22.26	<=33.01	Pass		
75	0		20.48	1.70	22.18	<=33.01	Pass			
2612.5	1		0	21.62	1.70	23.32	<=33.01	Pass		
			38	21.77	1.70	23.47	<=33.01	Pass		
			74	21.57	1.70	23.27	<=33.01	Pass		
	36		0	20.60	1.70	22.30	<=33.01	Pass		
			18	20.67	1.70	22.37	<=33.01	Pass		
			39	20.68	1.70	22.38	<=33.01	Pass		
	75		0	20.64	1.70	22.34	<=33.01	Pass		
	Note1: EIRP=Conducted Power+Antenna Gain									

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	22.36	1.70	24.06	<=33.01	Pass
			50	22.54	1.70	24.24	<=33.01	Pass
			99	22.56	1.70	24.26	<=33.01	Pass
		50	0	21.49	1.70	23.19	<=33.01	Pass
			25	21.53	1.70	23.23	<=33.01	Pass
			50	21.60	1.70	23.30	<=33.01	Pass
		100	0	21.48	1.70	23.18	<=33.01	Pass
			0	22.34	1.70	24.04	<=33.01	Pass
			50	22.64	1.70	24.34	<=33.01	Pass
	2595	1	99	22.62	1.70	24.32	<=33.01	Pass
			0	21.50	1.70	23.20	<=33.01	Pass
			25	21.58	1.70	23.28	<=33.01	Pass
		50	50	21.66	1.70	23.36	<=33.01	Pass
			0	21.55	1.70	23.25	<=33.01	Pass
			0	21.55	1.70	23.25	<=33.01	Pass
		100	0	21.55	1.70	23.25	<=33.01	Pass
			0	21.55	1.70	23.25	<=33.01	Pass
			0	21.55	1.70	23.25	<=33.01	Pass



	2610	1	0	22.46	1.70	24.16	<=33.01	Pass		
			50	22.75	1.70	24.45	<=33.01	Pass		
			99	22.73	1.70	24.43	<=33.01	Pass		
		50	0	21.61	1.70	23.31	<=33.01	Pass		
			25	21.73	1.70	23.43	<=33.01	Pass		
			50	21.75	1.70	23.45	<=33.01	Pass		
		100	0	21.63	1.70	23.33	<=33.01	Pass		
		16QAM	2580	1	0	21.47	1.70	23.17	<=33.01	Pass
					50	21.76	1.70	23.46	<=33.01	Pass
99	21.68				1.70	23.38	<=33.01	Pass		
50	0			20.46	1.70	22.16	<=33.01	Pass		
	25			20.53	1.70	22.23	<=33.01	Pass		
	50			20.58	1.70	22.28	<=33.01	Pass		
100	0			20.51	1.70	22.21	<=33.01	Pass		
2595	1			0	21.14	1.70	22.84	<=33.01	Pass	
				50	21.32	1.70	23.02	<=33.01	Pass	
			99	21.44	1.70	23.14	<=33.01	Pass		
	50		0	20.56	1.70	22.26	<=33.01	Pass		
			25	20.65	1.70	22.35	<=33.01	Pass		
			50	20.57	1.70	22.27	<=33.01	Pass		
100	0		20.56	1.70	22.26	<=33.01	Pass			
2610	1		0	21.40	1.70	23.10	<=33.01	Pass		
			50	21.91	1.70	23.61	<=33.01	Pass		
			99	21.67	1.70	23.37	<=33.01	Pass		
	50		0	20.59	1.70	22.29	<=33.01	Pass		
		25	20.70	1.70	22.40	<=33.01	Pass			
		50	20.73	1.70	22.43	<=33.01	Pass			
	100	0	20.67	1.70	22.37	<=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	3.15	-0.901	-0.0004	-2.5 to 2.5	Pass
					3.70	3.719	0.0014	-2.5 to 2.5	Pass
					4.30	7.439	0.0029	-2.5 to 2.5	Pass
				-30	3.70	-6.037	-0.0023	-2.5 to 2.5	Pass
				-20	3.70	0.486	0.0002	-2.5 to 2.5	Pass
				-10	3.70	-2.432	-0.0009	-2.5 to 2.5	Pass
				0	3.70	-9.856	-0.0038	-2.5 to 2.5	Pass
				10	3.70	-8.883	-0.0035	-2.5 to 2.5	Pass
				30	3.70	-3.390	-0.0013	-2.5 to 2.5	Pass
				40	3.70	9.127	0.0035	-2.5 to 2.5	Pass
				50	3.70	-1.960	-0.0008	-2.5 to 2.5	Pass
	2595	25	0	20	3.15	-4.349	-0.0017	-2.5 to 2.5	Pass
					3.70	-11.330	-0.0044	-2.5 to 2.5	Pass
					4.30	-11.959	-0.0046	-2.5 to 2.5	Pass
				-30	3.70	-1.874	-0.0007	-2.5 to 2.5	Pass
				-20	3.70	-18.539	-0.0071	-2.5 to 2.5	Pass
				-10	3.70	-17.381	-0.0067	-2.5 to 2.5	Pass
				0	3.70	-14.520	-0.0056	-2.5 to 2.5	Pass
				10	3.70	-21.973	-0.0085	-2.5 to 2.5	Pass
				30	3.70	-4.907	-0.0019	-2.5 to 2.5	Pass
				40	3.70	-6.480	-0.0025	-2.5 to 2.5	Pass
				50	3.70	-13.633	-0.0053	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.15	-14.648	-0.0056	-2.5 to 2.5	Pass
					3.70	-15.063	-0.0058	-2.5 to 2.5	Pass
					4.30	-9.885	-0.0038	-2.5 to 2.5	Pass
				-30	3.70	-5.779	-0.0022	-2.5 to 2.5	Pass
				-20	3.70	-11.344	-0.0043	-2.5 to 2.5	Pass
				-10	3.70	-24.633	-0.0094	-2.5 to 2.5	Pass
				0	3.70	-18.182	-0.0069	-2.5 to 2.5	Pass
				10	3.70	-12.918	-0.0049	-2.5 to 2.5	Pass
				30	3.70	-16.308	-0.0062	-2.5 to 2.5	Pass
				40	3.70	-11.029	-0.0042	-2.5 to 2.5	Pass
				50	3.70	-18.582	-0.0071	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.15	-1.974	-0.0008	-2.5 to 2.5	Pass
					3.70	2.689	0.0010	-2.5 to 2.5	Pass
					4.30	-1.087	-0.0004	-2.5 to 2.5	Pass
				-30	3.70	-7.839	-0.0030	-2.5 to 2.5	Pass
				-20	3.70	-3.247	-0.0013	-2.5 to 2.5	Pass
				-10	3.70	8.197	0.0032	-2.5 to 2.5	Pass
				0	3.70	-1.760	-0.0007	-2.5 to 2.5	Pass
				10	3.70	6.623	0.0026	-2.5 to 2.5	Pass
				30	3.70	-3.390	-0.0013	-2.5 to 2.5	Pass
				40	3.70	5.622	0.0022	-2.5 to 2.5	Pass
				50	3.70	4.148	0.0016	-2.5 to 2.5	Pass
	2595	25	0	20	3.15	-18.668	-0.0072	-2.5 to 2.5	Pass
					3.70	-13.404	-0.0052	-2.5 to 2.5	Pass
					4.30	-9.842	-0.0038	-2.5 to 2.5	Pass
				-30	3.70	0.501	0.0002	-2.5 to 2.5	Pass
				-20	3.70	-17.238	-0.0066	-2.5 to 2.5	Pass

				-10	3.70	-11.187	-0.0043	-2.5 to 2.5	Pass
				0	3.70	-15.750	-0.0061	-2.5 to 2.5	Pass
				10	3.70	-1.202	-0.0005	-2.5 to 2.5	Pass
				30	3.70	-4.005	-0.0015	-2.5 to 2.5	Pass
				40	3.70	-11.787	-0.0045	-2.5 to 2.5	Pass
				50	3.70	-26.307	-0.0101	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.15	-18.110	-0.0069	-2.5 to 2.5	Pass
					3.70	-22.388	-0.0086	-2.5 to 2.5	Pass
					4.30	-15.464	-0.0059	-2.5 to 2.5	Pass
				-30	3.70	-8.841	-0.0034	-2.5 to 2.5	Pass
				-20	3.70	-22.001	-0.0084	-2.5 to 2.5	Pass
				-10	3.70	-32.516	-0.0124	-2.5 to 2.5	Pass
				0	3.70	-19.655	-0.0075	-2.5 to 2.5	Pass
				10	3.70	-19.255	-0.0074	-2.5 to 2.5	Pass
				30	3.70	-27.881	-0.0107	-2.5 to 2.5	Pass
				40	3.70	-29.397	-0.0112	-2.5 to 2.5	Pass
				50	3.70	-19.040	-0.0073	-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	3.15	4.864	0.0019	-2.5 to 2.5	Pass
					3.70	-1.702	-0.0007	-2.5 to 2.5	Pass
					4.30	9.384	0.0036	-2.5 to 2.5	Pass
				-30	3.70	-2.275	-0.0009	-2.5 to 2.5	Pass
				-20	3.70	20.485	0.0080	-2.5 to 2.5	Pass
				-10	3.70	3.018	0.0012	-2.5 to 2.5	Pass
				0	3.70	-5.765	-0.0022	-2.5 to 2.5	Pass
				10	3.70	4.807	0.0019	-2.5 to 2.5	Pass
				30	3.70	-3.033	-0.0012	-2.5 to 2.5	Pass
				40	3.70	8.469	0.0033	-2.5 to 2.5	Pass
				50	3.70	4.749	0.0018	-2.5 to 2.5	Pass
	2595	50	0	20	3.15	0.329	0.0001	-2.5 to 2.5	Pass
					3.70	0.229	0.0001	-2.5 to 2.5	Pass
					4.30	2.317	0.0009	-2.5 to 2.5	Pass
				-30	3.70	9.356	0.0036	-2.5 to 2.5	Pass
				-20	3.70	-1.774	-0.0007	-2.5 to 2.5	Pass
				-10	3.70	-7.367	-0.0028	-2.5 to 2.5	Pass
				0	3.70	10.457	0.0040	-2.5 to 2.5	Pass
				10	3.70	2.189	0.0008	-2.5 to 2.5	Pass
				30	3.70	0.987	0.0004	-2.5 to 2.5	Pass
				40	3.70	5.908	0.0023	-2.5 to 2.5	Pass
				50	3.70	-5.178	-0.0020	-2.5 to 2.5	Pass
	2615	50	0	20	3.15	-1.445	-0.0006	-2.5 to 2.5	Pass
					3.70	-7.567	-0.0029	-2.5 to 2.5	Pass
					4.30	10.099	0.0039	-2.5 to 2.5	Pass
				-30	3.70	0.658	0.0003	-2.5 to 2.5	Pass
				-20	3.70	-6.294	-0.0024	-2.5 to 2.5	Pass
				-10	3.70	-0.143	-0.0001	-2.5 to 2.5	Pass
				0	3.70	-0.215	-0.0001	-2.5 to 2.5	Pass
				10	3.70	1.187	0.0005	-2.5 to 2.5	Pass
				30	3.70	1.688	0.0006	-2.5 to 2.5	Pass
				40	3.70	2.847	0.0011	-2.5 to 2.5	Pass
				50	3.70	-3.548	-0.0014	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.15	1.402	0.0005	-2.5 to 2.5	Pass
					3.70	2.718	0.0011	-2.5 to 2.5	Pass

					4.30	0.930	0.0004	-2.5 to 2.5	Pass
				-30	3.70	-0.615	-0.0002	-2.5 to 2.5	Pass
				-20	3.70	4.234	0.0016	-2.5 to 2.5	Pass
				-10	3.70	-0.887	-0.0003	-2.5 to 2.5	Pass
				0	3.70	-2.933	-0.0011	-2.5 to 2.5	Pass
				10	3.70	1.359	0.0005	-2.5 to 2.5	Pass
				30	3.70	2.403	0.0009	-2.5 to 2.5	Pass
				40	3.70	6.995	0.0027	-2.5 to 2.5	Pass
				50	3.70	8.726	0.0034	-2.5 to 2.5	Pass
	2595	50	0	20	3.15	-4.063	-0.0016	-2.5 to 2.5	Pass
					3.70	6.480	0.0025	-2.5 to 2.5	Pass
					4.30	1.116	0.0004	-2.5 to 2.5	Pass
				-30	3.70	5.894	0.0023	-2.5 to 2.5	Pass
				-20	3.70	1.130	0.0004	-2.5 to 2.5	Pass
				-10	3.70	-1.860	-0.0007	-2.5 to 2.5	Pass
				0	3.70	1.831	0.0007	-2.5 to 2.5	Pass
				10	3.70	-2.661	-0.0010	-2.5 to 2.5	Pass
				30	3.70	6.738	0.0026	-2.5 to 2.5	Pass
				40	3.70	2.604	0.0010	-2.5 to 2.5	Pass
				50	3.70	-0.601	-0.0002	-2.5 to 2.5	Pass
	2615	50	0	20	3.15	6.809	0.0026	-2.5 to 2.5	Pass
					3.70	2.532	0.0010	-2.5 to 2.5	Pass
					4.30	-5.293	-0.0020	-2.5 to 2.5	Pass
				-30	3.70	-2.847	-0.0011	-2.5 to 2.5	Pass
				-20	3.70	1.473	0.0006	-2.5 to 2.5	Pass
				-10	3.70	-1.101	-0.0004	-2.5 to 2.5	Pass
				0	3.70	3.719	0.0014	-2.5 to 2.5	Pass
				10	3.70	7.768	0.0030	-2.5 to 2.5	Pass
				30	3.70	-3.104	-0.0012	-2.5 to 2.5	Pass
				40	3.70	-4.048	-0.0015	-2.5 to 2.5	Pass
				50	3.70	5.221	0.0020	-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	3.15	2.532	0.0010	-2.5 to 2.5	Pass
					3.70	9.327	0.0036	-2.5 to 2.5	Pass
					4.30	-1.101	-0.0004	-2.5 to 2.5	Pass
				-30	3.70	2.990	0.0012	-2.5 to 2.5	Pass
				-20	3.70	-2.418	-0.0009	-2.5 to 2.5	Pass
				-10	3.70	-6.509	-0.0025	-2.5 to 2.5	Pass
				0	3.70	-0.730	-0.0003	-2.5 to 2.5	Pass
				10	3.70	7.224	0.0028	-2.5 to 2.5	Pass
				30	3.70	2.718	0.0011	-2.5 to 2.5	Pass
				40	3.70	7.167	0.0028	-2.5 to 2.5	Pass
				50	3.70	-0.243	-0.0001	-2.5 to 2.5	Pass
	2595	75	0	20	3.15	1.702	0.0007	-2.5 to 2.5	Pass
					3.70	1.788	0.0007	-2.5 to 2.5	Pass
					4.30	5.808	0.0022	-2.5 to 2.5	Pass
				-30	3.70	7.067	0.0027	-2.5 to 2.5	Pass
				-20	3.70	4.320	0.0017	-2.5 to 2.5	Pass
				-10	3.70	5.736	0.0022	-2.5 to 2.5	Pass
				0	3.70	-0.486	-0.0002	-2.5 to 2.5	Pass
				10	3.70	5.078	0.0020	-2.5 to 2.5	Pass
				30	3.70	-2.575	-0.0010	-2.5 to 2.5	Pass
				40	3.70	0.772	0.0003	-2.5 to 2.5	Pass

	2612.5	75	0	50	3.70	-2.232	-0.0009	-2.5 to 2.5	Pass
				20	3.15	-3.333	-0.0013	-2.5 to 2.5	Pass
					3.70	7.882	0.0030	-2.5 to 2.5	Pass
					4.30	5.465	0.0021	-2.5 to 2.5	Pass
				-30	3.70	-7.467	-0.0029	-2.5 to 2.5	Pass
				-20	3.70	1.388	0.0005	-2.5 to 2.5	Pass
				-10	3.70	4.034	0.0015	-2.5 to 2.5	Pass
				0	3.70	-3.347	-0.0013	-2.5 to 2.5	Pass
				10	3.70	-4.134	-0.0016	-2.5 to 2.5	Pass
				30	3.70	0.544	0.0002	-2.5 to 2.5	Pass
				40	3.70	-0.658	-0.0003	-2.5 to 2.5	Pass
				50	3.70	-2.475	-0.0009	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.15	3.333	0.0013	-2.5 to 2.5	Pass
					3.70	4.792	0.0019	-2.5 to 2.5	Pass
					4.30	3.405	0.0013	-2.5 to 2.5	Pass
				-30	3.70	6.166	0.0024	-2.5 to 2.5	Pass
				-20	3.70	2.904	0.0011	-2.5 to 2.5	Pass
				-10	3.70	0.358	0.0001	-2.5 to 2.5	Pass
				0	3.70	-3.376	-0.0013	-2.5 to 2.5	Pass
				10	3.70	-2.317	-0.0009	-2.5 to 2.5	Pass
				30	3.70	5.622	0.0022	-2.5 to 2.5	Pass
				40	3.70	3.533	0.0014	-2.5 to 2.5	Pass
				50	3.70	-1.144	-0.0004	-2.5 to 2.5	Pass
	2595	75	0	20	3.15	-0.215	-0.0001	-2.5 to 2.5	Pass
					3.70	-1.101	-0.0004	-2.5 to 2.5	Pass
					4.30	2.589	0.0010	-2.5 to 2.5	Pass
				-30	3.70	2.747	0.0011	-2.5 to 2.5	Pass
				-20	3.70	-5.693	-0.0022	-2.5 to 2.5	Pass
				-10	3.70	6.852	0.0026	-2.5 to 2.5	Pass
				0	3.70	-0.901	-0.0003	-2.5 to 2.5	Pass
				10	3.70	8.011	0.0031	-2.5 to 2.5	Pass
				30	3.70	1.402	0.0005	-2.5 to 2.5	Pass
				40	3.70	2.689	0.0010	-2.5 to 2.5	Pass
				50	3.70	8.011	0.0031	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.15	-4.807	-0.0018	-2.5 to 2.5	Pass
					3.70	-1.087	-0.0004	-2.5 to 2.5	Pass
					4.30	-7.296	-0.0028	-2.5 to 2.5	Pass
				-30	3.70	1.917	0.0007	-2.5 to 2.5	Pass
				-20	3.70	1.144	0.0004	-2.5 to 2.5	Pass
				-10	3.70	-7.896	-0.0030	-2.5 to 2.5	Pass
				0	3.70	-2.446	-0.0009	-2.5 to 2.5	Pass
				10	3.70	-0.787	-0.0003	-2.5 to 2.5	Pass
				30	3.70	-4.306	-0.0016	-2.5 to 2.5	Pass
				40	3.70	7.639	0.0029	-2.5 to 2.5	Pass
				50	3.70	-1.688	-0.0006	-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	3.15	0.801	0.0003	-2.5 to 2.5	Pass
					3.70	1.388	0.0005	-2.5 to 2.5	Pass
					4.30	1.717	0.0007	-2.5 to 2.5	Pass
				-30	3.70	-2.089	-0.0008	-2.5 to 2.5	Pass
				-20	3.70	-1.202	-0.0005	-2.5 to 2.5	Pass
				-10	3.70	7.639	0.0030	-2.5 to 2.5	Pass
				0	3.70	4.206	0.0016	-2.5 to 2.5	Pass

				10	3.70	-1.760	-0.0007	-2.5 to 2.5	Pass
				30	3.70	-4.234	-0.0016	-2.5 to 2.5	Pass
				40	3.70	2.074	0.0008	-2.5 to 2.5	Pass
				50	3.70	-2.060	-0.0008	-2.5 to 2.5	Pass
	2595	100	0	20	3.15	4.549	0.0018	-2.5 to 2.5	Pass
					3.70	7.396	0.0029	-2.5 to 2.5	Pass
					4.30	5.293	0.0020	-2.5 to 2.5	Pass
				-30	3.70	6.580	0.0025	-2.5 to 2.5	Pass
				-20	3.70	5.078	0.0020	-2.5 to 2.5	Pass
				-10	3.70	4.063	0.0016	-2.5 to 2.5	Pass
				0	3.70	11.430	0.0044	-2.5 to 2.5	Pass
				10	3.70	4.764	0.0018	-2.5 to 2.5	Pass
				30	3.70	3.662	0.0014	-2.5 to 2.5	Pass
				40	3.70	-3.076	-0.0012	-2.5 to 2.5	Pass
				50	3.70	8.440	0.0033	-2.5 to 2.5	Pass
	2610	100	0	20	3.15	2.146	0.0008	-2.5 to 2.5	Pass
					3.70	-0.887	-0.0003	-2.5 to 2.5	Pass
					4.30	7.267	0.0028	-2.5 to 2.5	Pass
				-30	3.70	4.234	0.0016	-2.5 to 2.5	Pass
				-20	3.70	3.147	0.0012	-2.5 to 2.5	Pass
				-10	3.70	0.730	0.0003	-2.5 to 2.5	Pass
				0	3.70	2.189	0.0008	-2.5 to 2.5	Pass
				10	3.70	5.164	0.0020	-2.5 to 2.5	Pass
				30	3.70	2.489	0.0010	-2.5 to 2.5	Pass
				40	3.70	7.854	0.0030	-2.5 to 2.5	Pass
				50	3.70	0.744	0.0003	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	3.15	6.566	0.0025	-2.5 to 2.5	Pass
					3.70	0.072	0.0000	-2.5 to 2.5	Pass
					4.30	3.018	0.0012	-2.5 to 2.5	Pass
				-30	3.70	4.606	0.0018	-2.5 to 2.5	Pass
				-20	3.70	-2.089	-0.0008	-2.5 to 2.5	Pass
				-10	3.70	3.033	0.0012	-2.5 to 2.5	Pass
				0	3.70	1.245	0.0005	-2.5 to 2.5	Pass
				10	3.70	-4.778	-0.0019	-2.5 to 2.5	Pass
				30	3.70	-0.587	-0.0002	-2.5 to 2.5	Pass
				40	3.70	-7.782	-0.0030	-2.5 to 2.5	Pass
				50	3.70	-0.601	-0.0002	-2.5 to 2.5	Pass
	2595	100	0	20	3.15	4.363	0.0017	-2.5 to 2.5	Pass
					3.70	3.219	0.0012	-2.5 to 2.5	Pass
					4.30	0.000	0.0000	-2.5 to 2.5	Pass
				-30	3.70	4.191	0.0016	-2.5 to 2.5	Pass
				-20	3.70	6.394	0.0025	-2.5 to 2.5	Pass
				-10	3.70	3.390	0.0013	-2.5 to 2.5	Pass
				0	3.70	3.891	0.0015	-2.5 to 2.5	Pass
				10	3.70	0.758	0.0003	-2.5 to 2.5	Pass
				30	3.70	0.501	0.0002	-2.5 to 2.5	Pass
				40	3.70	7.968	0.0031	-2.5 to 2.5	Pass
				50	3.70	2.174	0.0008	-2.5 to 2.5	Pass
	2610	100	0	20	3.15	0.930	0.0004	-2.5 to 2.5	Pass
					3.70	-1.431	-0.0005	-2.5 to 2.5	Pass
					4.30	-2.861	-0.0011	-2.5 to 2.5	Pass
				-30	3.70	3.676	0.0014	-2.5 to 2.5	Pass
				-20	3.70	8.225	0.0032	-2.5 to 2.5	Pass
				-10	3.70	2.961	0.0011	-2.5 to 2.5	Pass
				0	3.70	-2.375	-0.0009	-2.5 to 2.5	Pass
				10	3.70	-0.701	-0.0003	-2.5 to 2.5	Pass
				30	3.70	-3.848	-0.0015	-2.5 to 2.5	Pass
				40	3.70	-1.774	-0.0007	-2.5 to 2.5	Pass
				50	3.70	5.379	0.0021	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTV						
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 / NTVN						
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

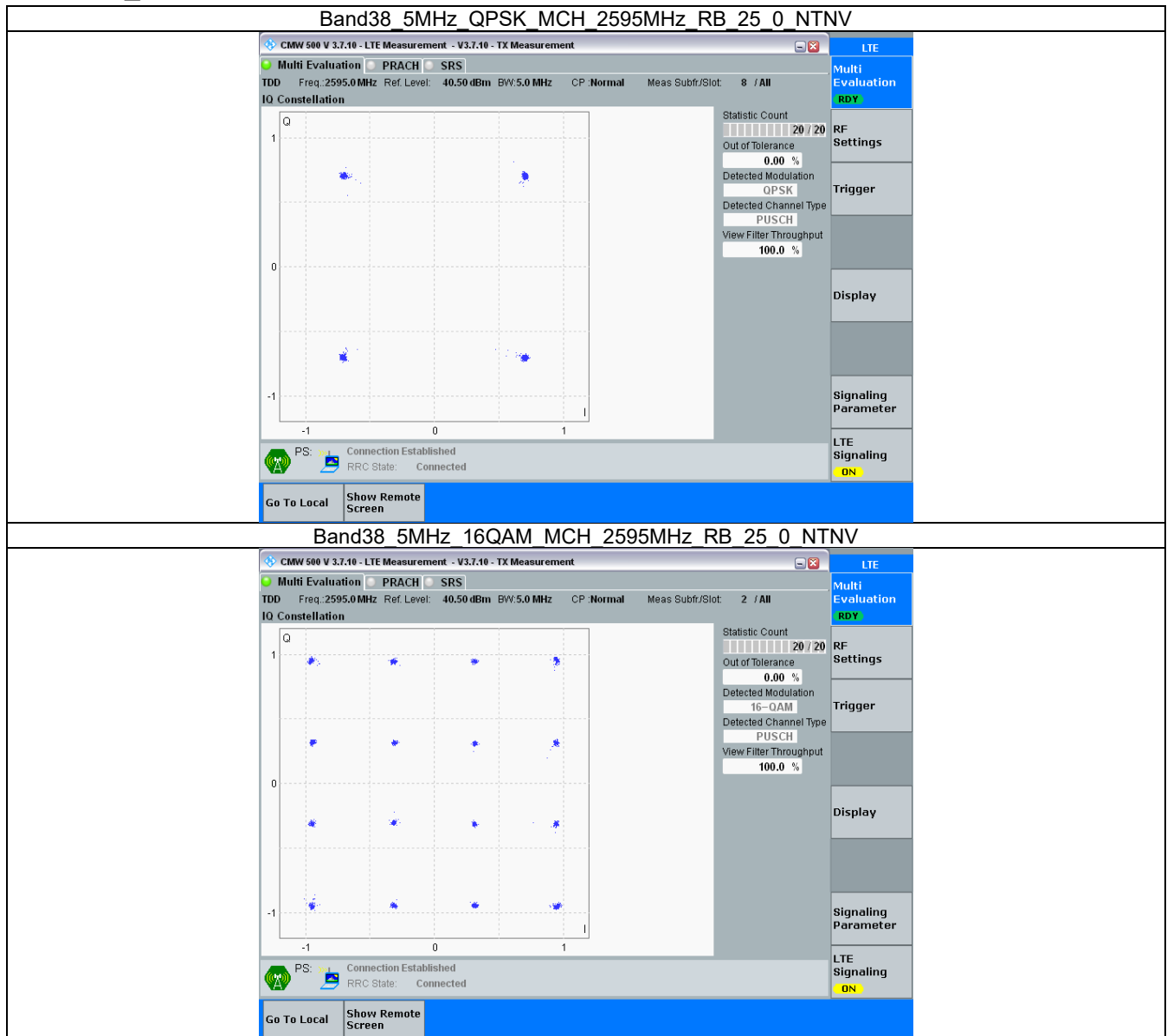
Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

3.1.4 B38_20MHz

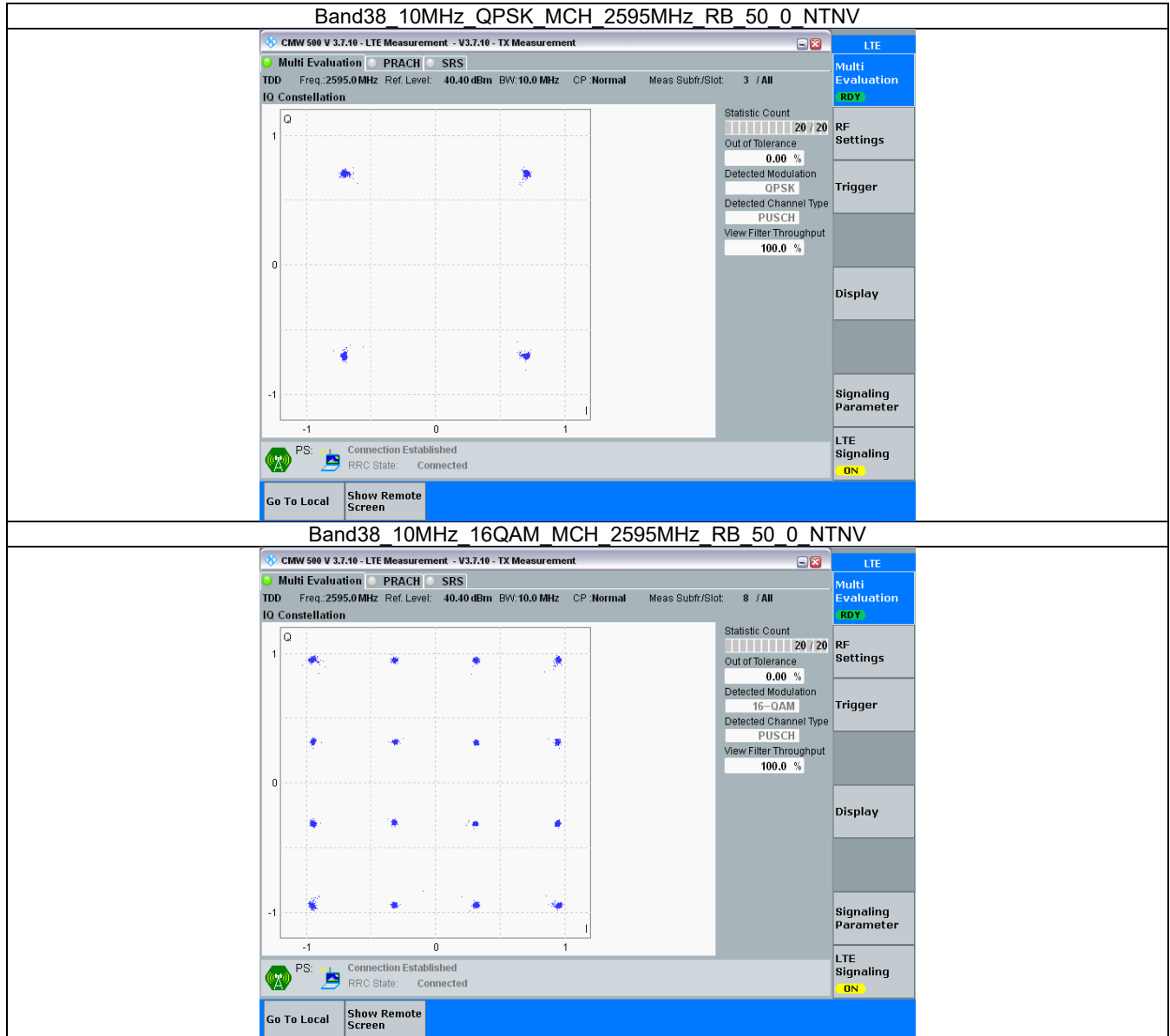
Band: 38 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

3.2 Test Graph

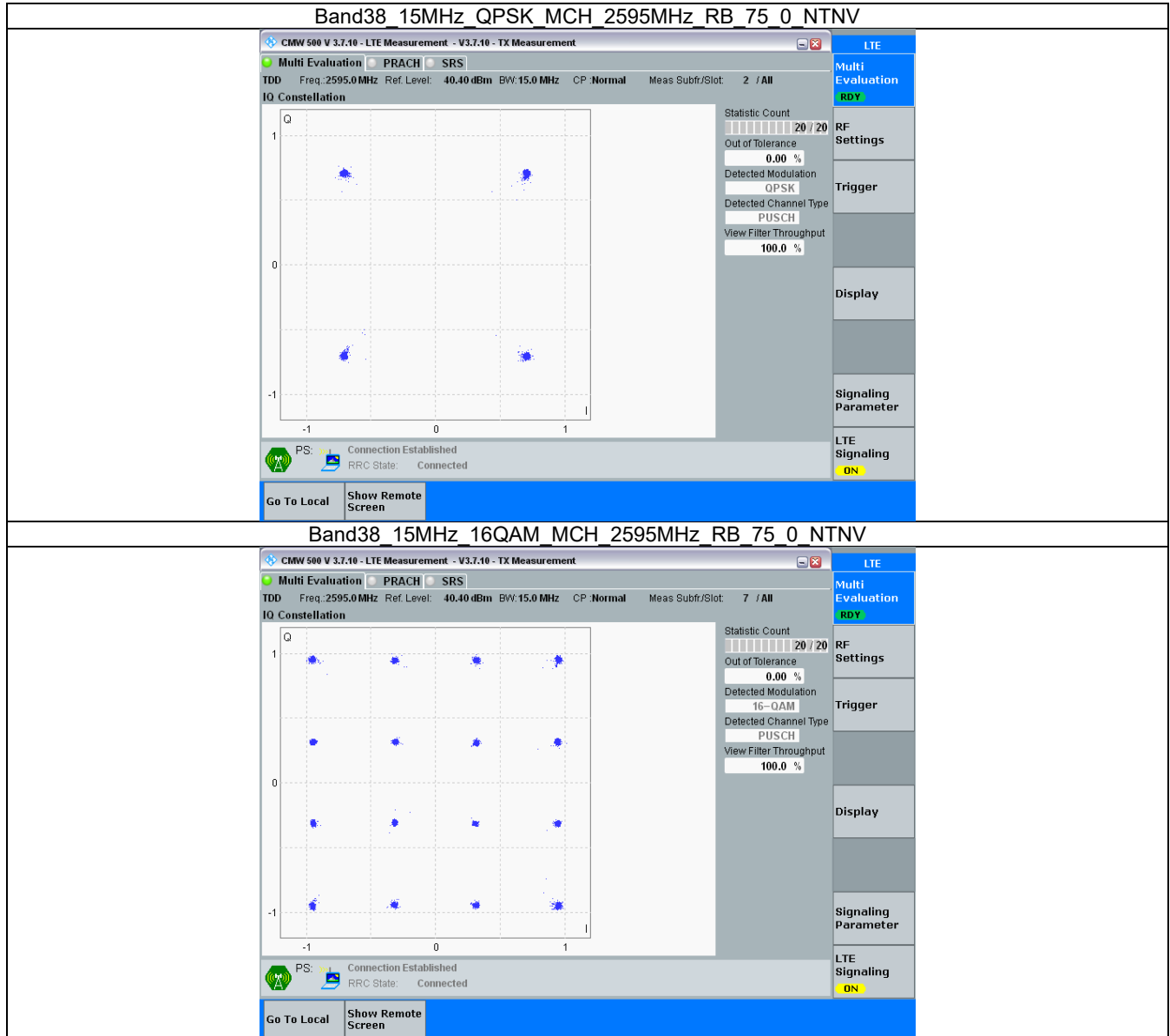
3.2.1 B38_5MHz



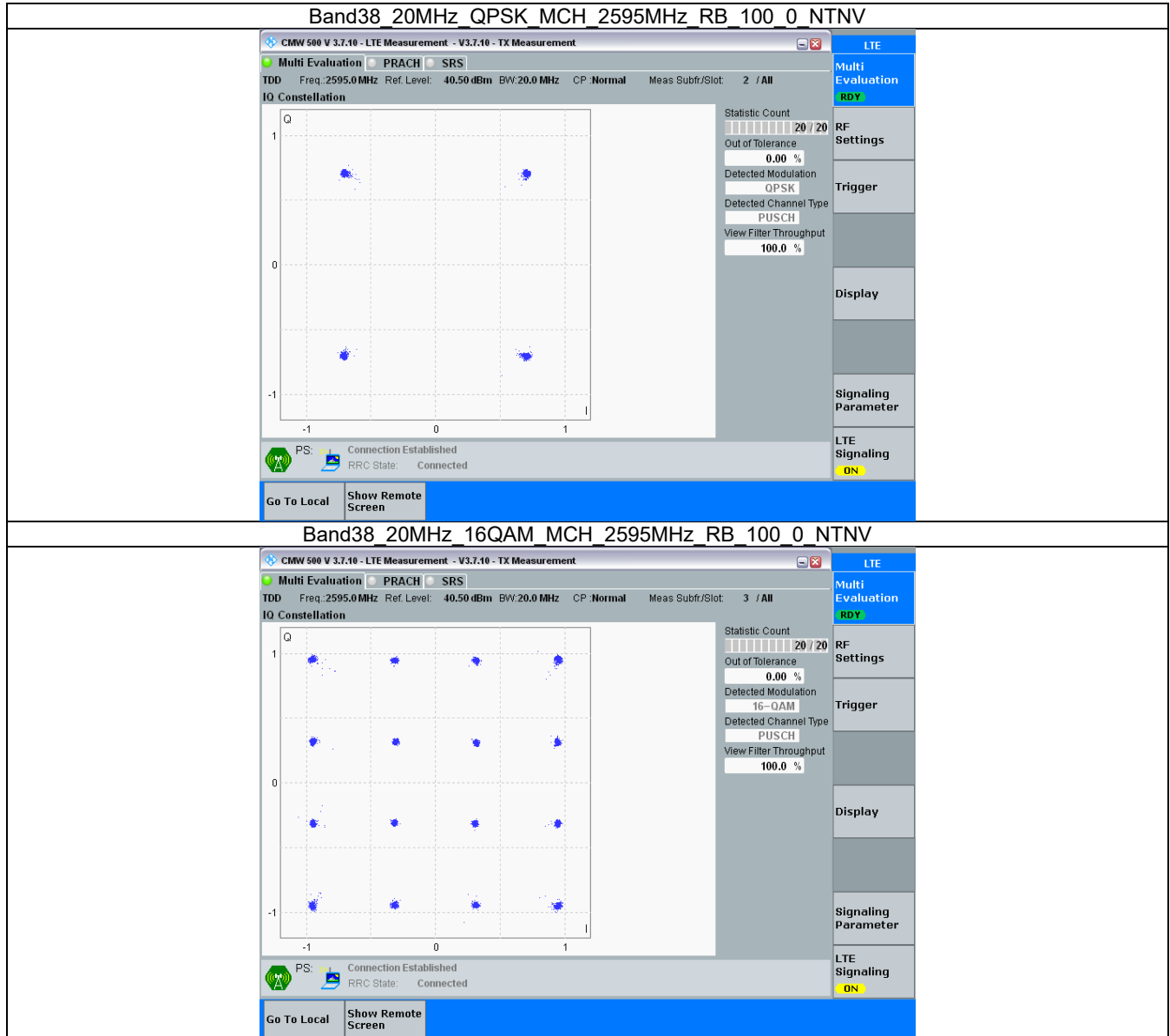
3.2.2 B38_10MHz



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	4.552	/	Pass
		2595	25	0	4.557	/	Pass
		2617.5	25	0	4.575	/	Pass
	16QAM	2572.5	25	0	4.540	/	Pass
		2595	25	0	4.540	/	Pass
		2617.5	25	0	4.590	/	Pass
10	QPSK	2575	50	0	9.070	/	Pass
		2595	50	0	9.077	/	Pass
		2615	50	0	9.052	/	Pass
	16QAM	2575	50	0	9.089	/	Pass
		2595	50	0	9.071	/	Pass
		2615	50	0	9.060	/	Pass
15	QPSK	2577.5	75	0	13.561	/	Pass
		2595	75	0	13.569	/	Pass
		2612.5	75	0	13.602	/	Pass
	16QAM	2577.5	75	0	13.624	/	Pass
		2595	75	0	13.614	/	Pass
		2612.5	75	0	13.586	/	Pass
20	QPSK	2580	100	0	18.132	/	Pass
		2595	100	0	18.072	/	Pass
		2610	100	0	18.097	/	Pass
	16QAM	2580	100	0	18.103	/	Pass
		2595	100	0	18.144	/	Pass
		2610	100	0	18.130	/	Pass

4.1.2 Band38_XDB

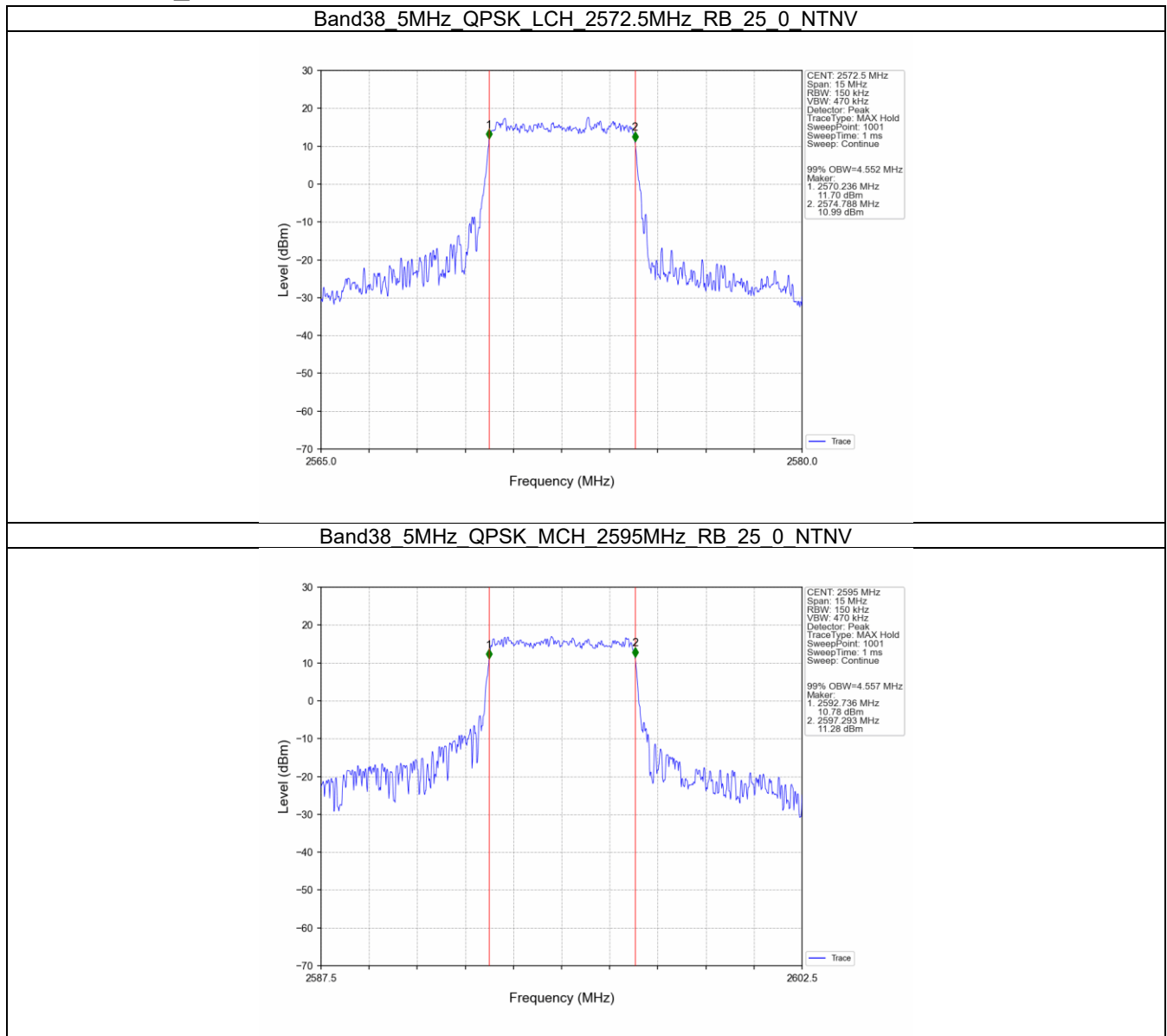
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.175	/	Pass
		2595	25	0	5.583	/	Pass
		2617.5	25	0	5.877	/	Pass
	16QAM	2572.5	25	0	5.091	/	Pass
		2595	25	0	5.169	/	Pass
		2617.5	25	0	5.074	/	Pass
10	QPSK	2575	50	0	10.487	/	Pass
		2595	50	0	11.388	/	Pass
		2615	50	0	10.560	/	Pass
	16QAM	2575	50	0	11.574	/	Pass
		2595	50	0	11.090	/	Pass
		2615	50	0	9.929	/	Pass
15	QPSK	2577.5	75	0	16.187	/	Pass
		2595	75	0	15.560	/	Pass
		2612.5	75	0	15.772	/	Pass
	16QAM	2577.5	75	0	16.040	/	Pass
		2595	75	0	14.888	/	Pass
		2612.5	75	0	15.459	/	Pass
20	QPSK	2580	100	0	23.731	/	Pass



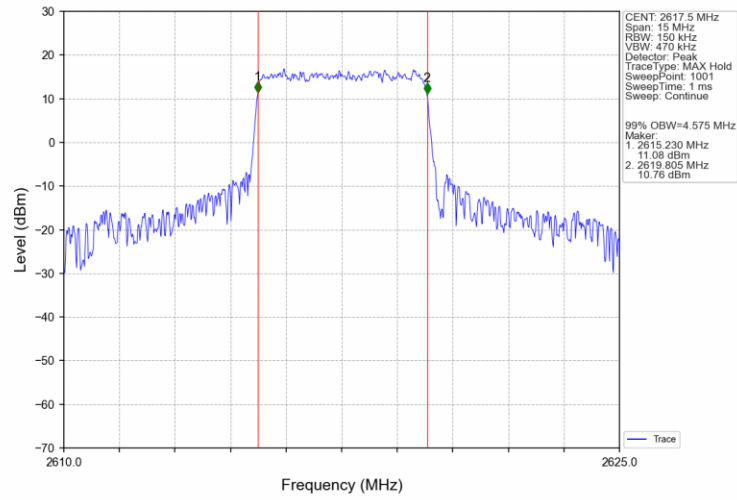
		2595	100	0	20.488	/	Pass
		2610	100	0	22.169	/	Pass
	16QAM	2580	100	0	21.100	/	Pass
		2595	100	0	21.682	/	Pass
		2610	100	0	20.898	/	Pass

4.2 Test Graph

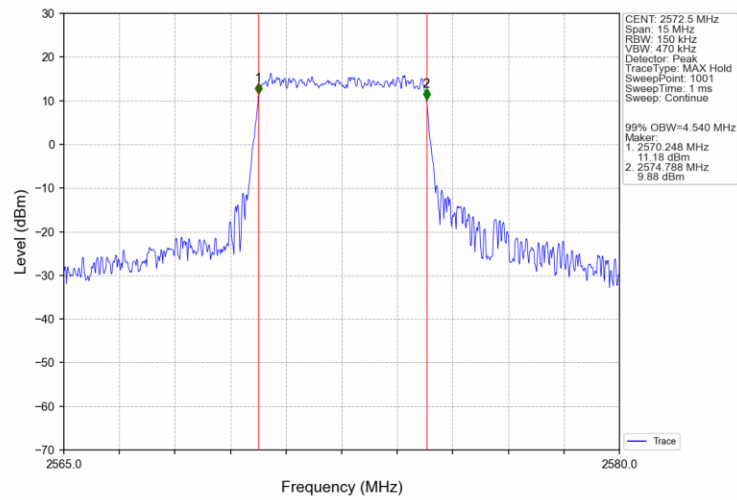
4.2.1 Band38_OBW



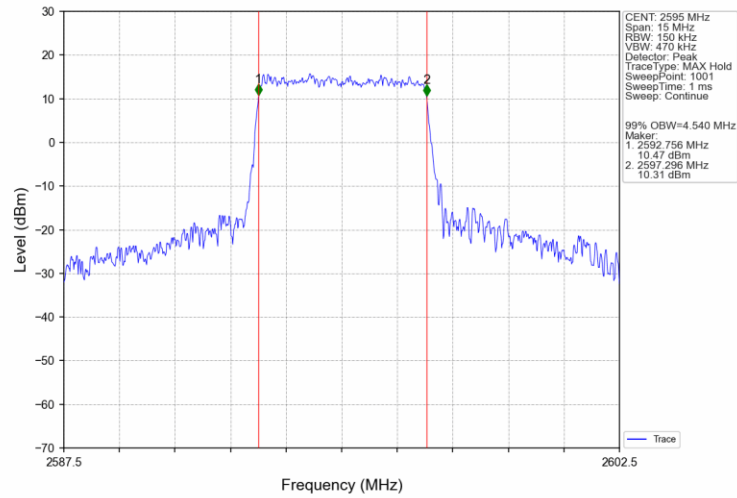
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



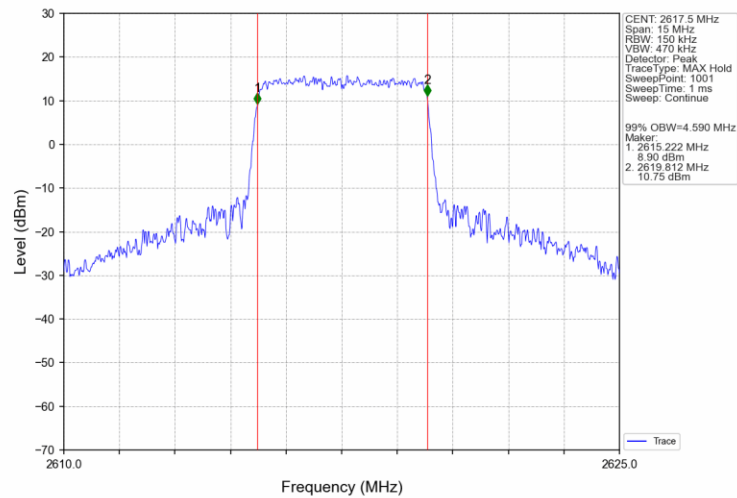
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



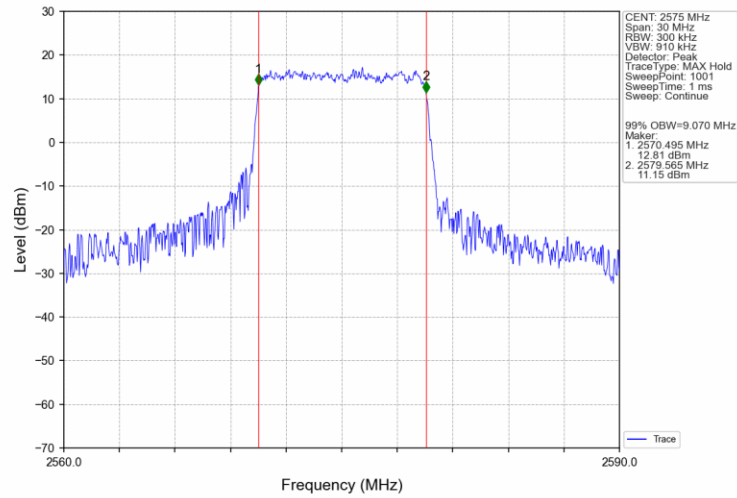
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



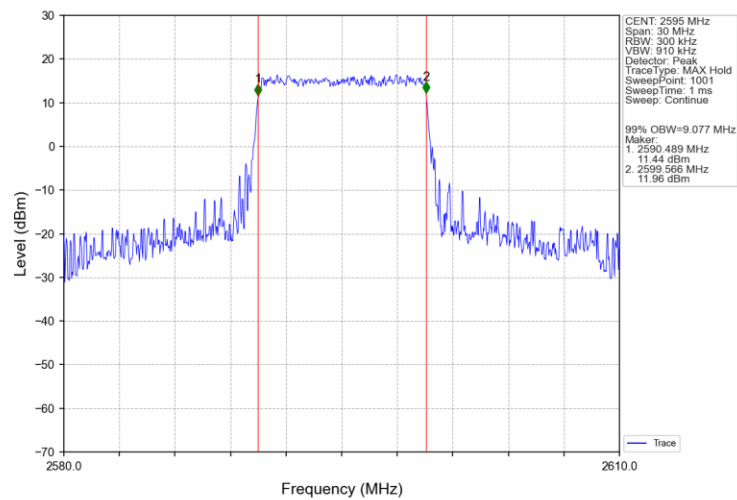
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



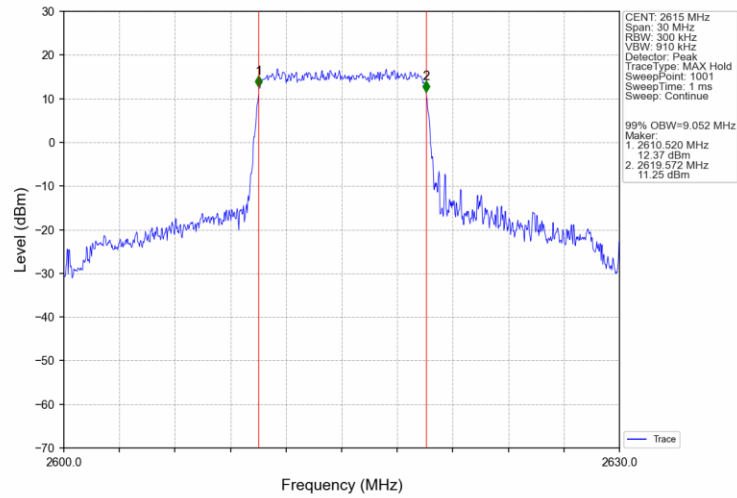
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



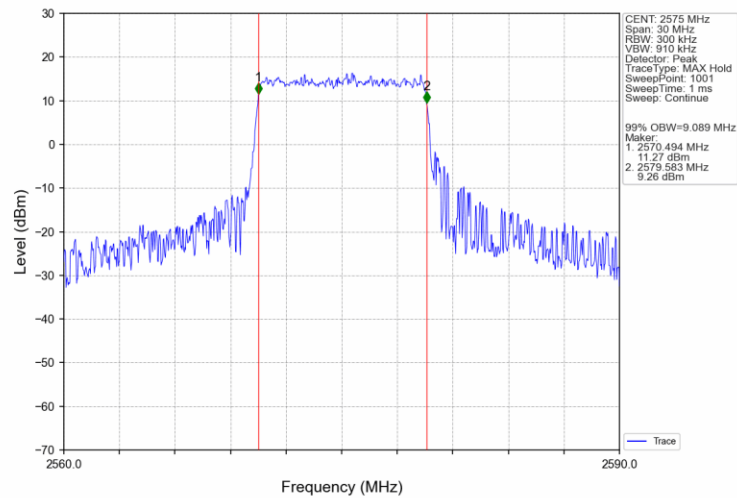
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



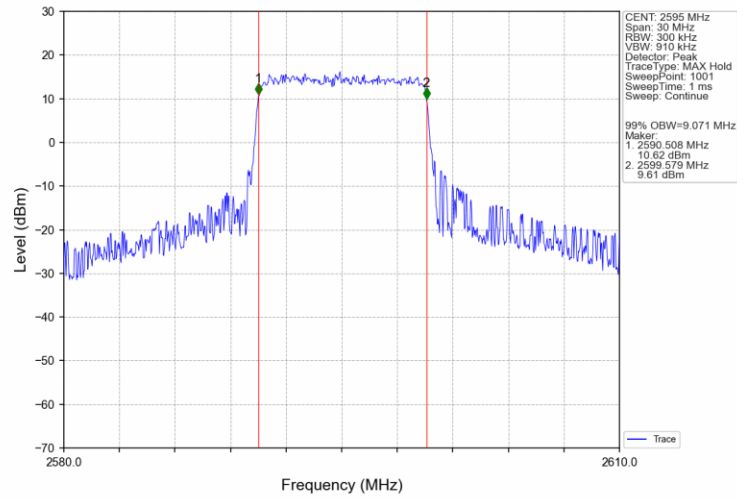
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



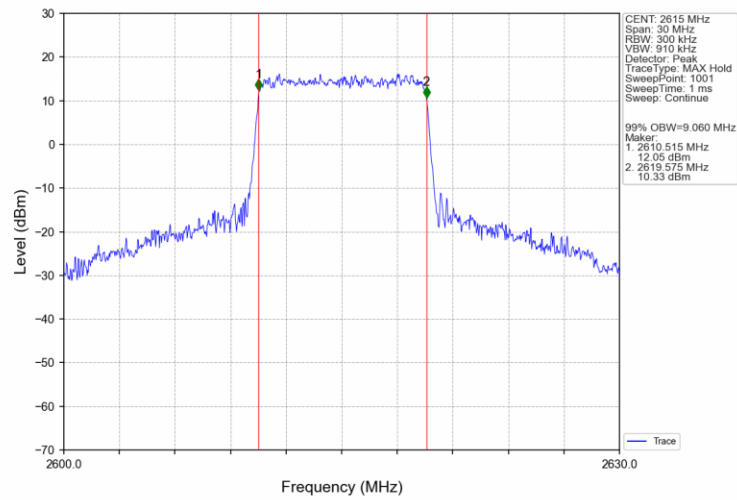
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



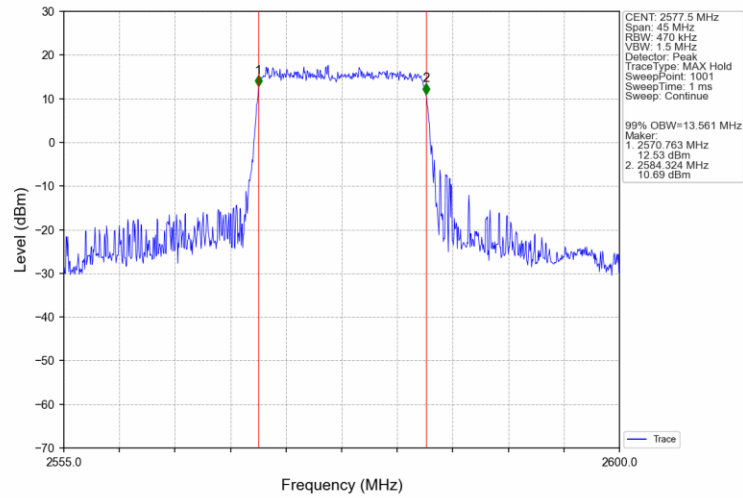
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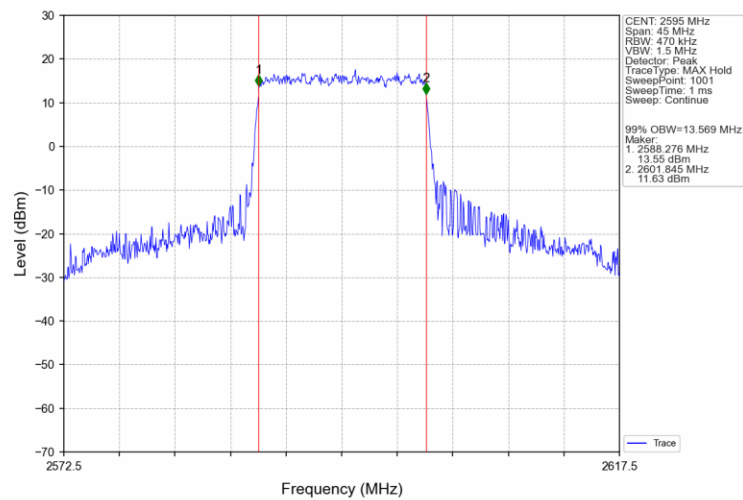
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



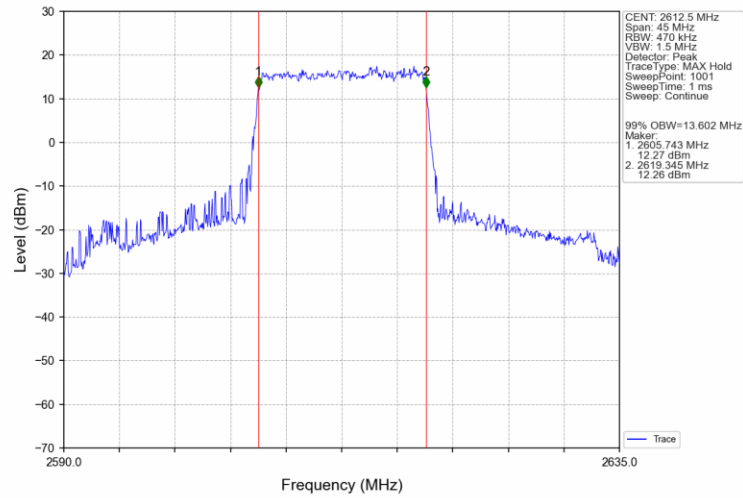
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



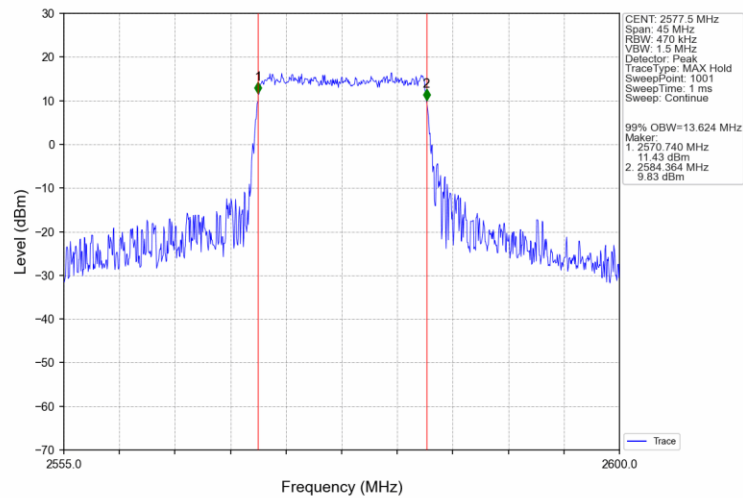
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



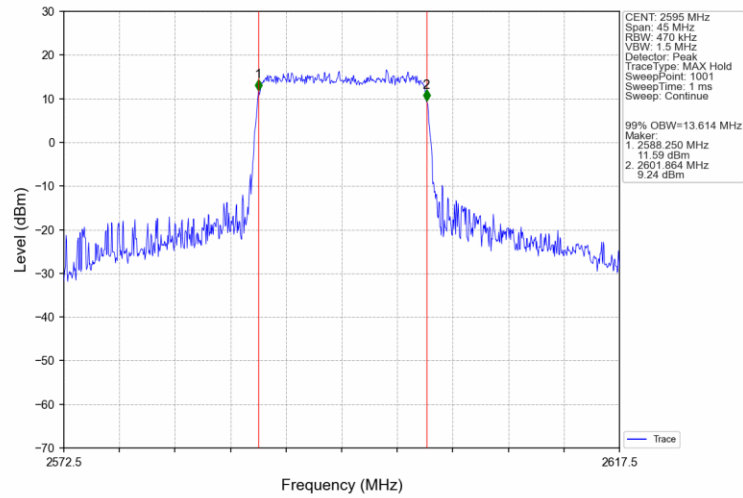
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



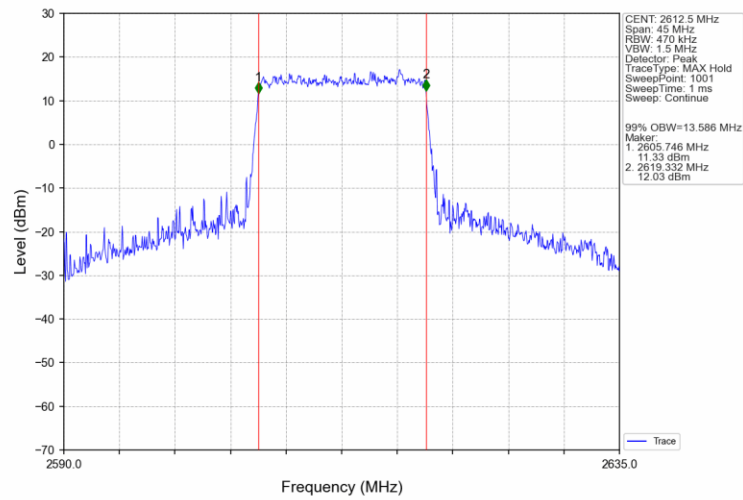
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



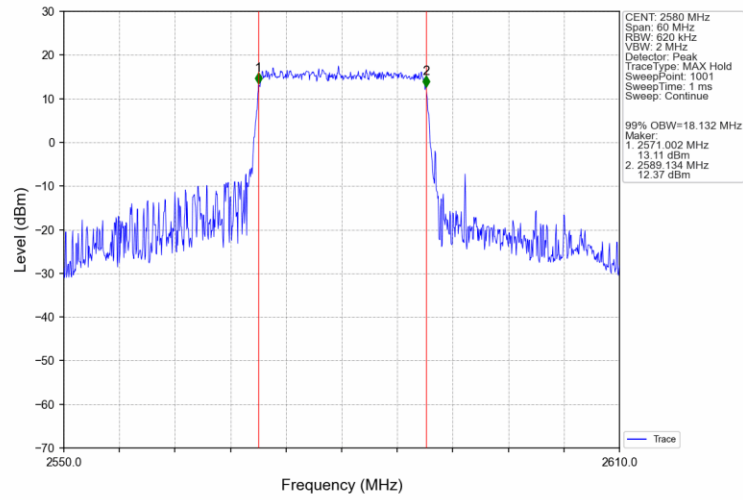
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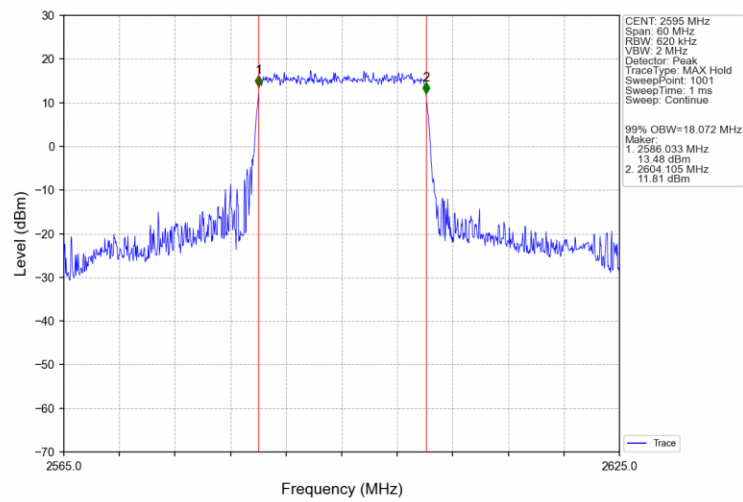
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



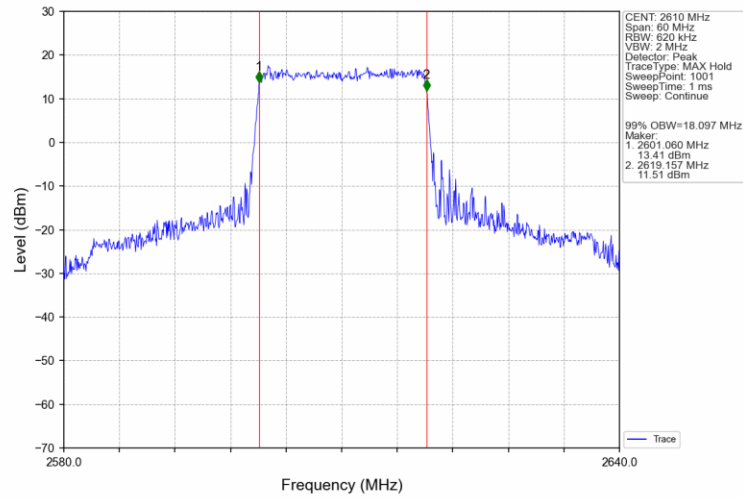
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



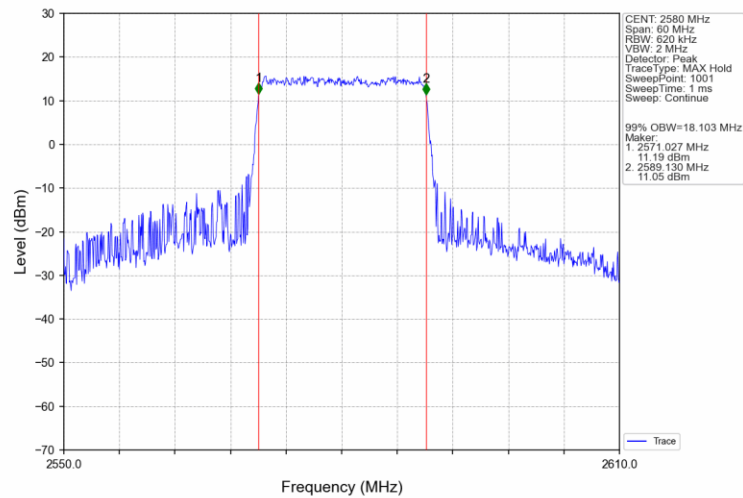
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



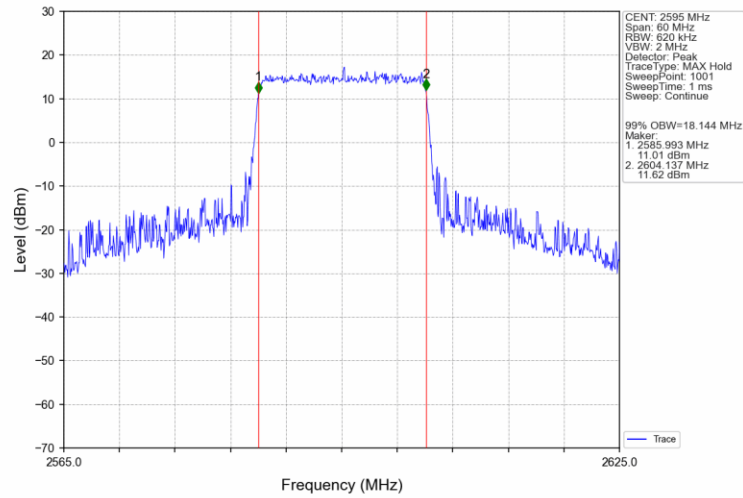
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



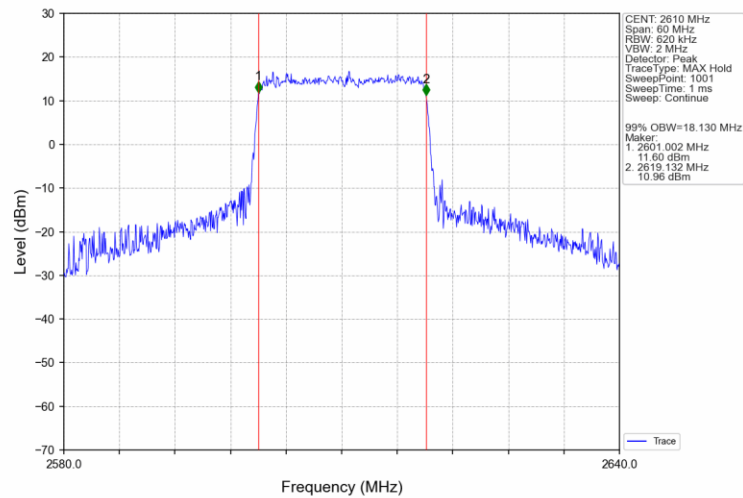
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

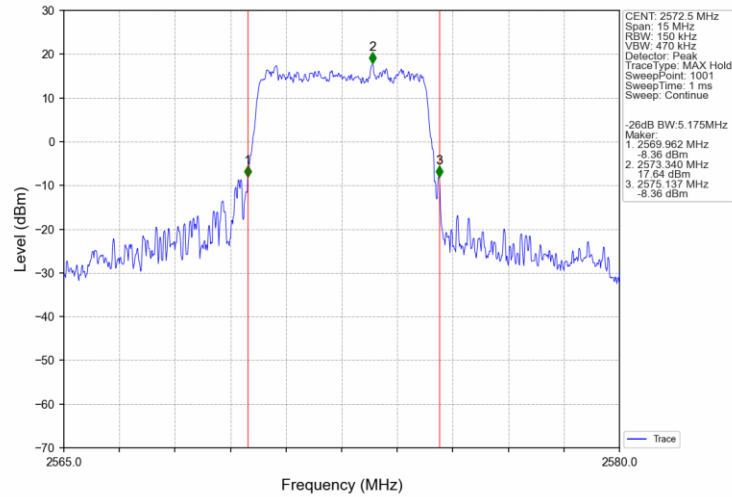


Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

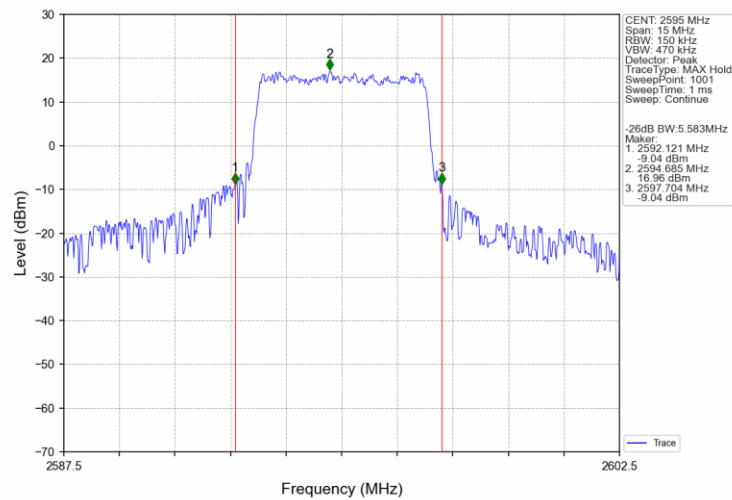


4.2.2 Band38_XDB

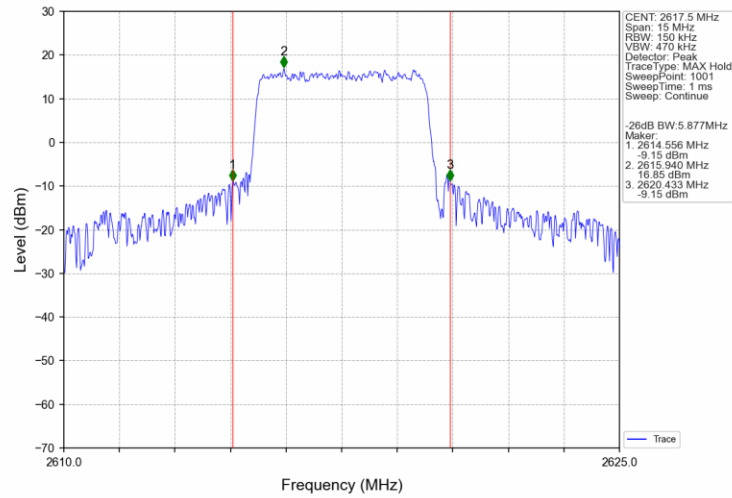
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



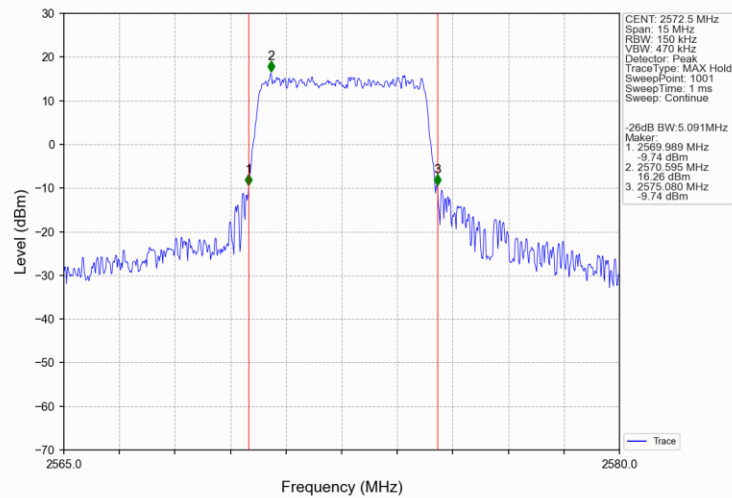
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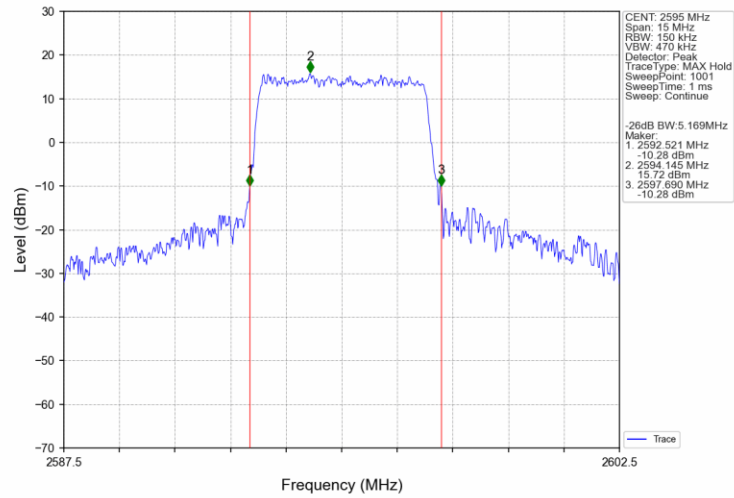
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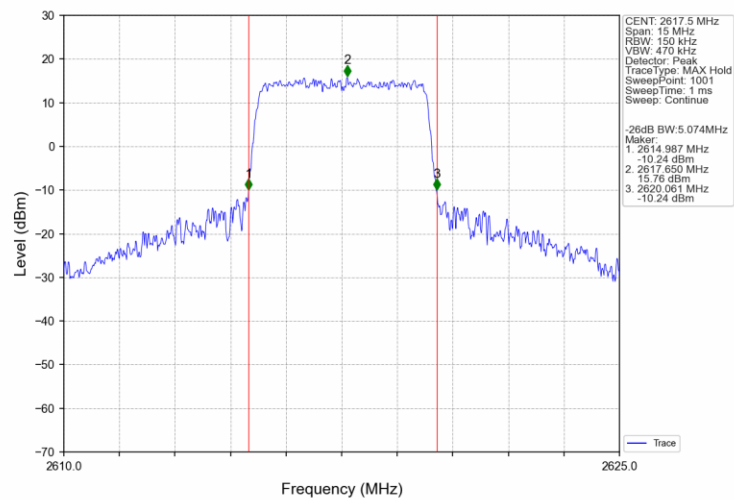
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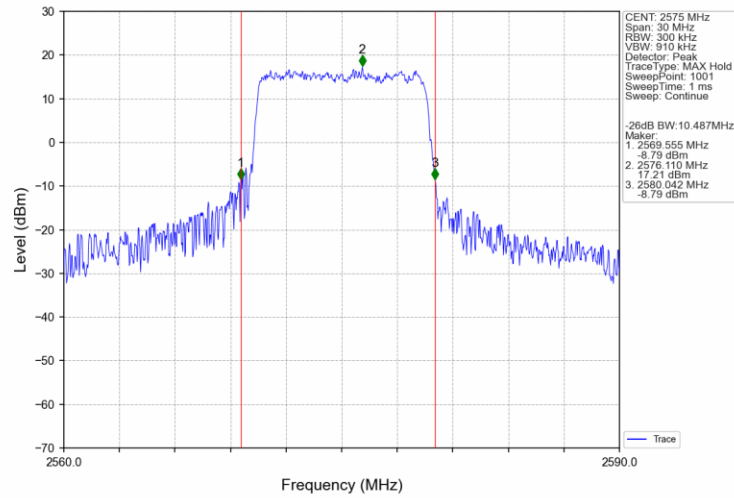
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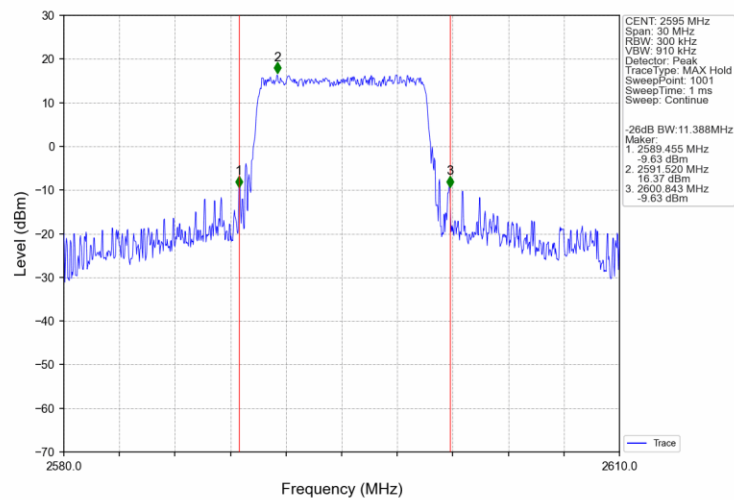
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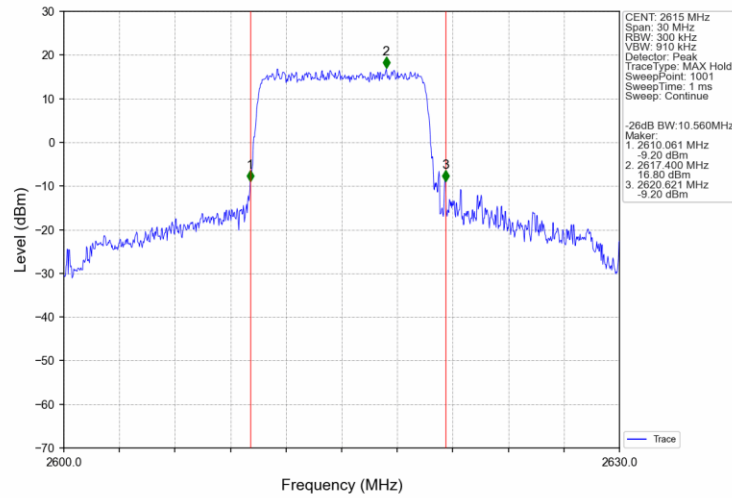
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



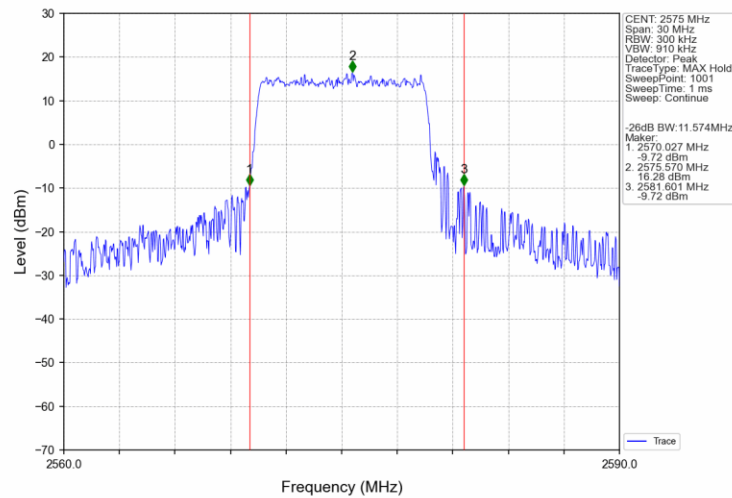
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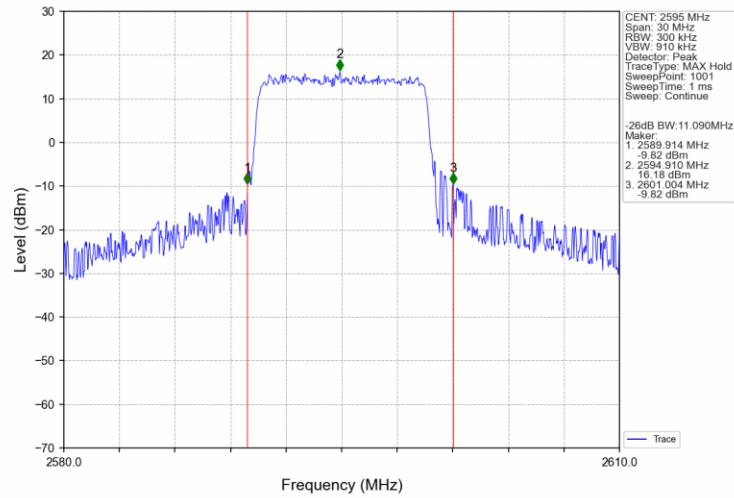
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



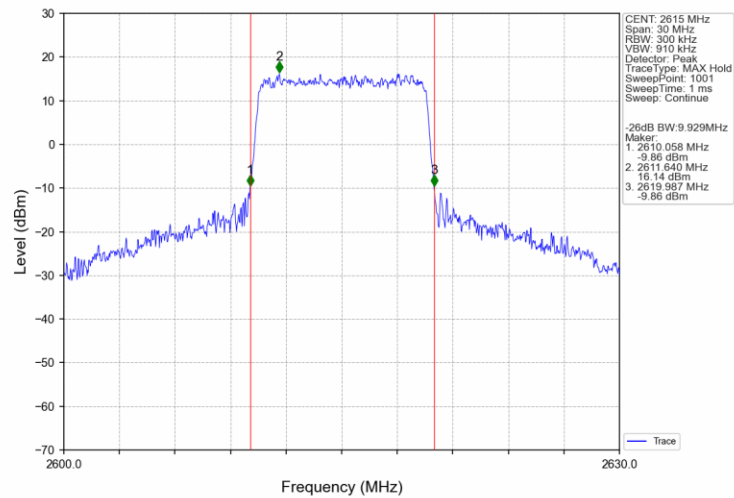
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



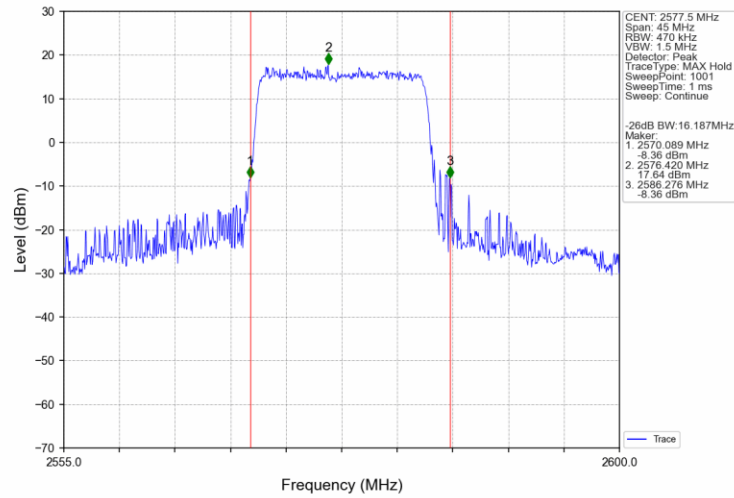
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



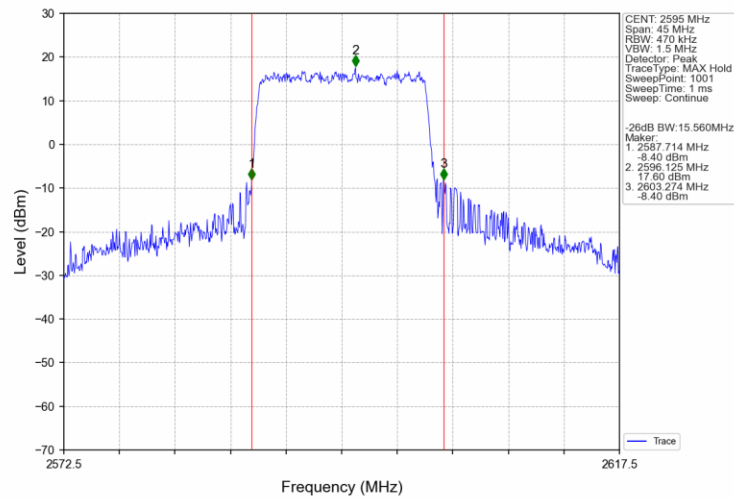
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



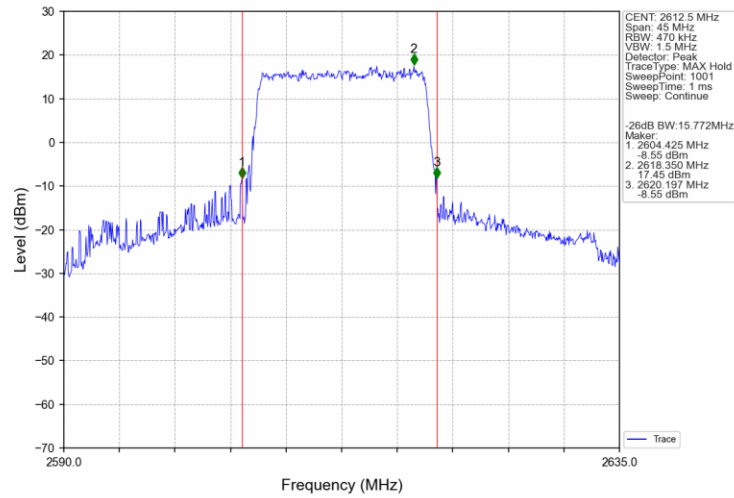
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



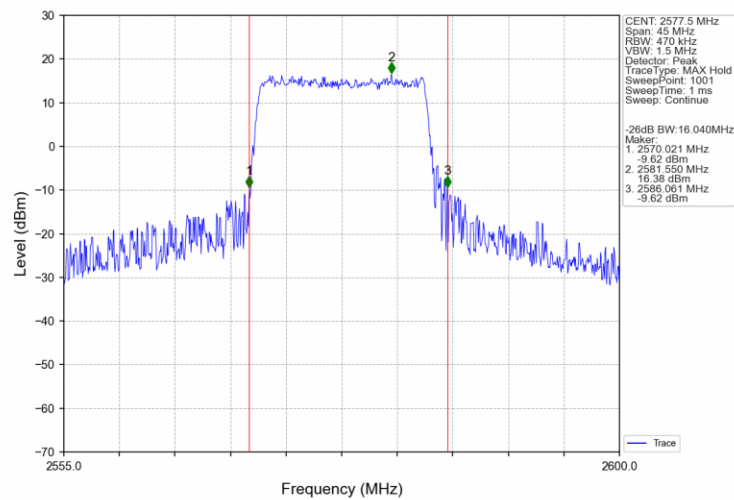
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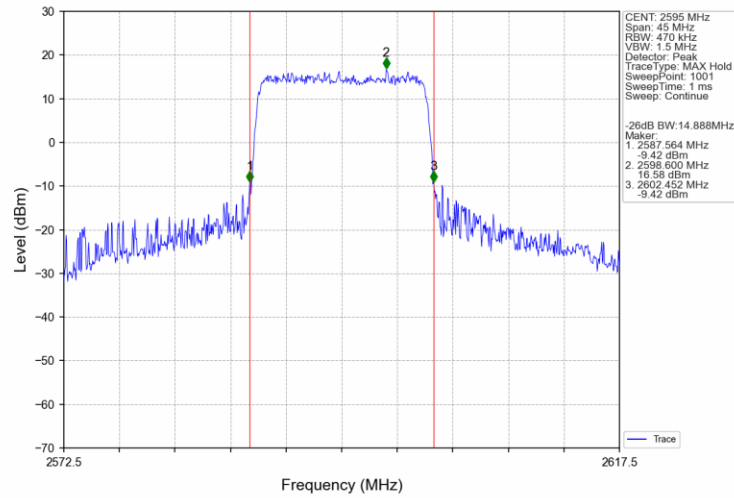
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



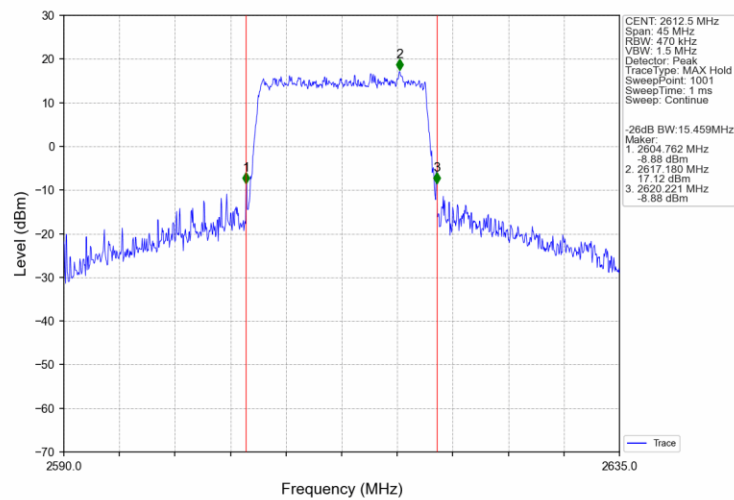
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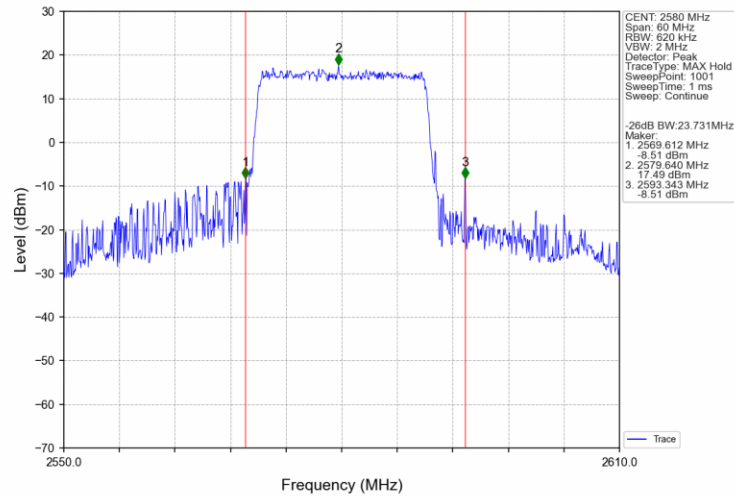
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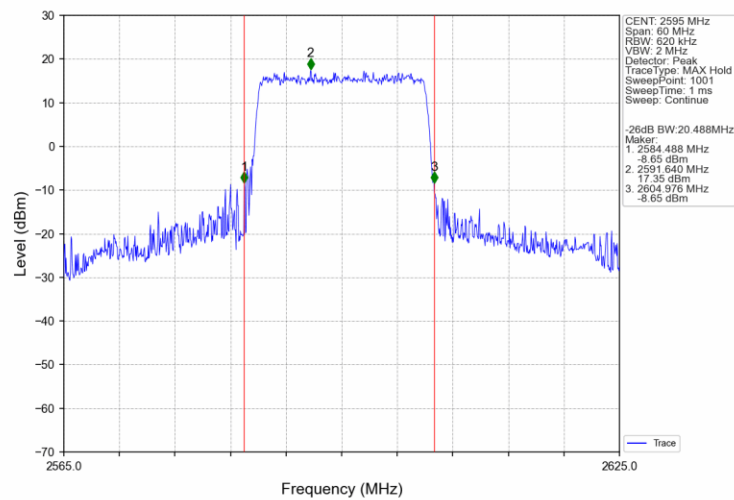
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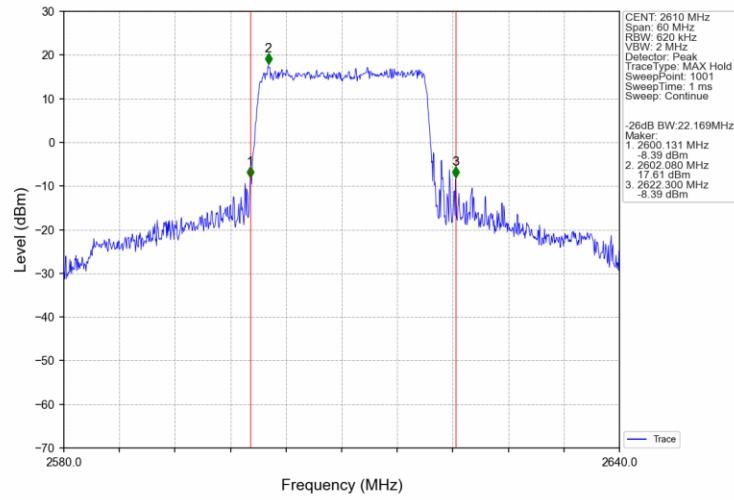
Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV



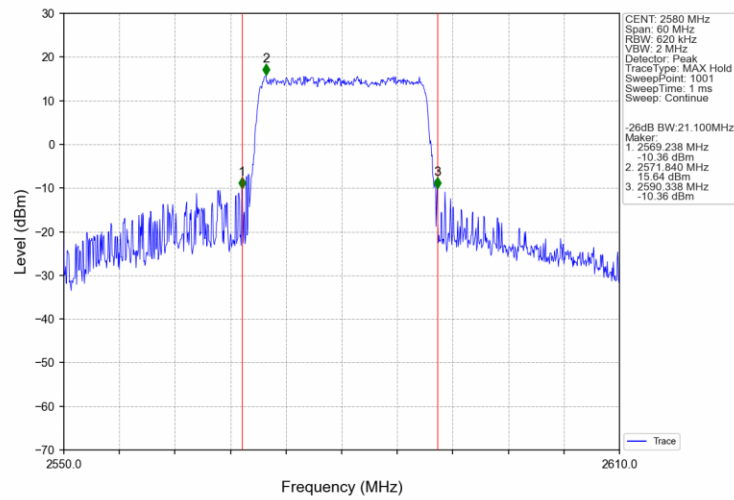
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



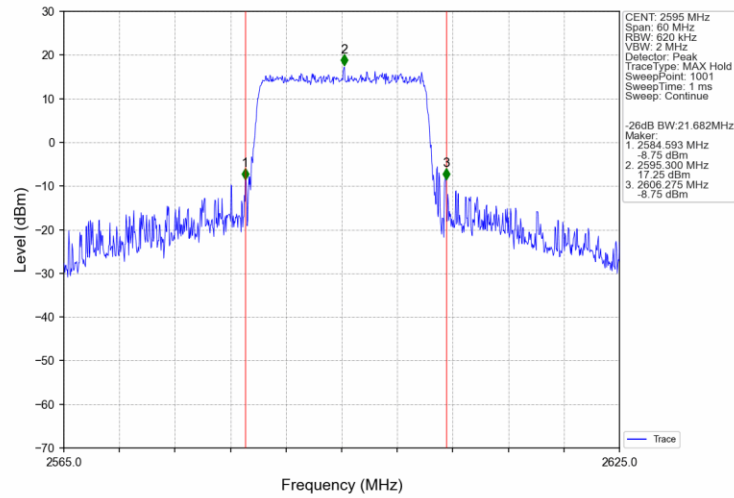
Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



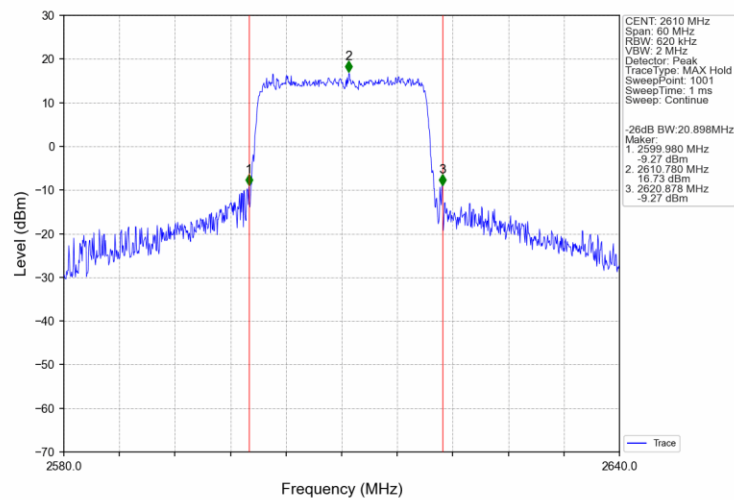
Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV



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	7.61	<=13	Pass
	2595	25	0	7.46	<=13	Pass
	2617.5	25	0	6.99	<=13	Pass
16QAM	2572.5	25	0	8.26	<=13	Pass
	2595	25	0	8.12	<=13	Pass
	2617.5	25	0	7.75	<=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	7.60	<=13	Pass
	2595	50	0	7.36	<=13	Pass
	2615	50	0	7.10	<=13	Pass
16QAM	2575	50	0	8.29	<=13	Pass
	2595	50	0	8.20	<=13	Pass
	2615	50	0	7.93	<=13	Pass

5.1.3 B38_15MHz

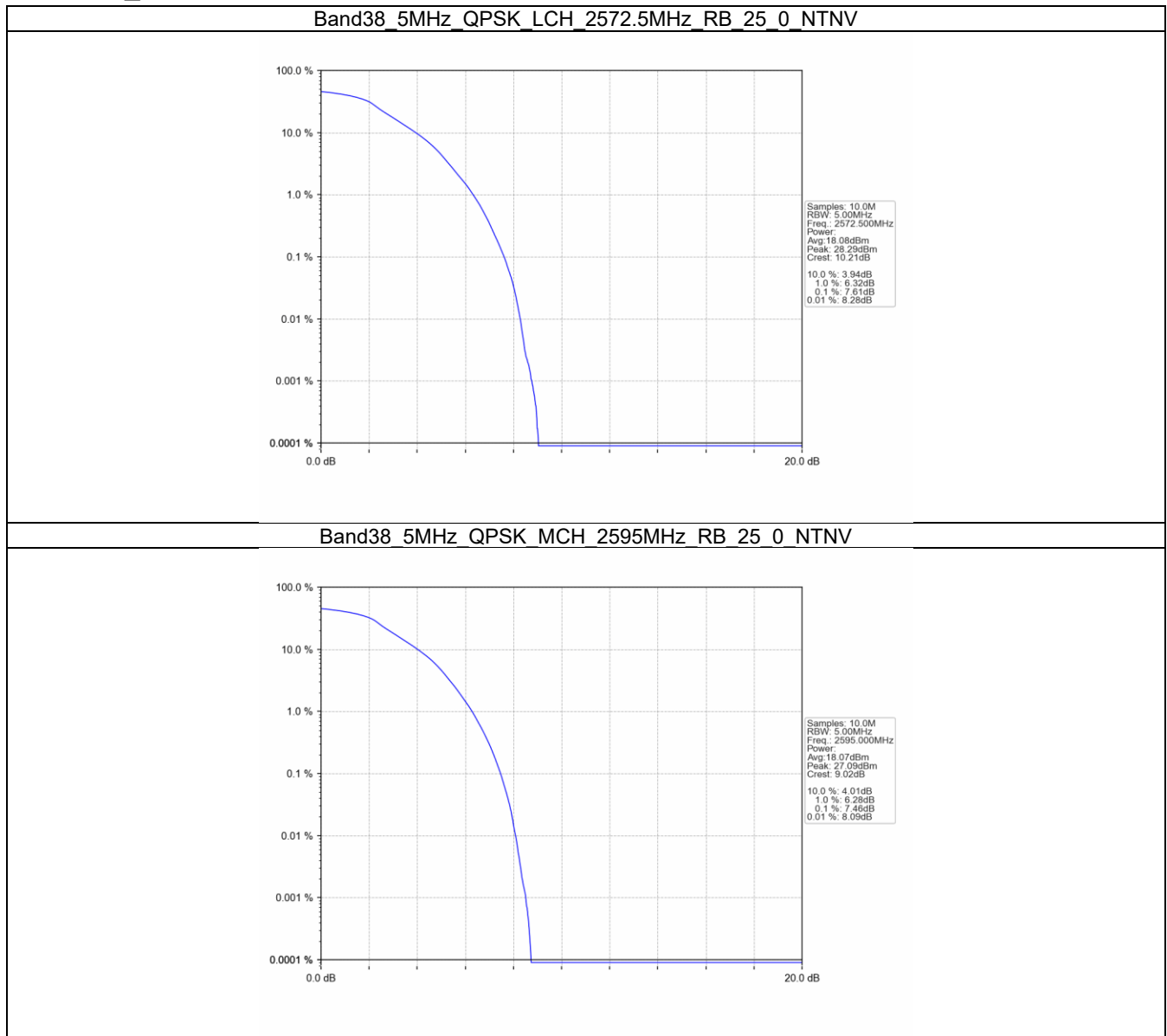
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.31	<=13	Pass
	2595	75	0	7.25	<=13	Pass
	2612.5	75	0	6.95	<=13	Pass
16QAM	2577.5	75	0	8.14	<=13	Pass
	2595	75	0	8.18	<=13	Pass
	2612.5	75	0	8.05	<=13	Pass

5.1.4 B38_20MHz

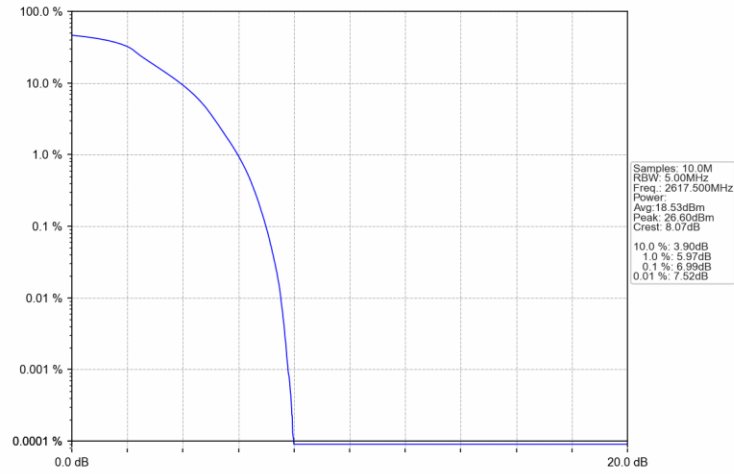
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.67	<=13	Pass
	2595	100	0	7.70	<=13	Pass
	2610	100	0	7.72	<=13	Pass
16QAM	2580	100	0	8.63	<=13	Pass
	2595	100	0	8.62	<=13	Pass
	2610	100	0	8.50	<=13	Pass

5.2 Test Graph

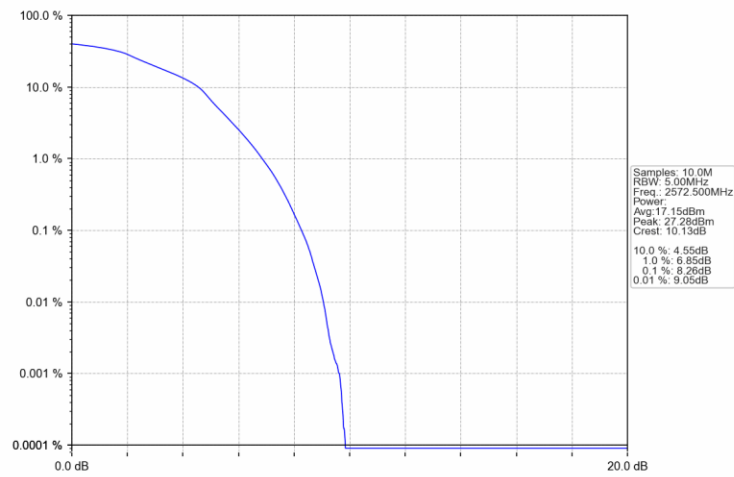
5.2.1 B38_5MHz



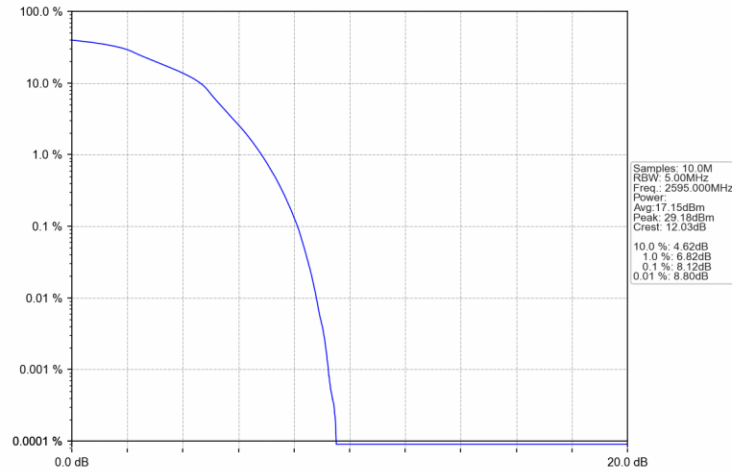
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



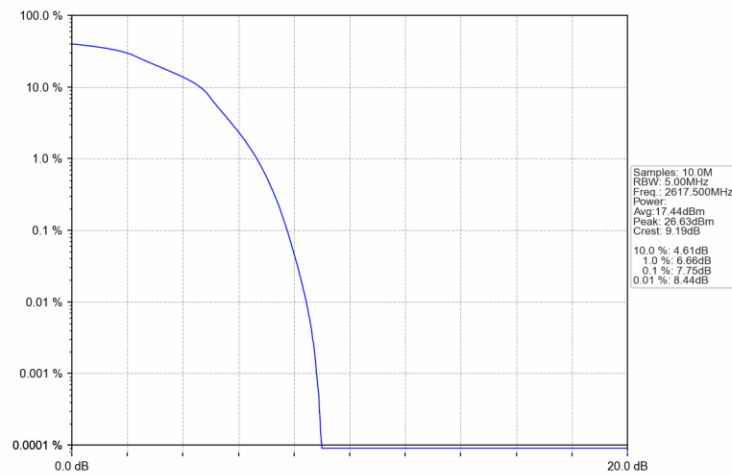
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV

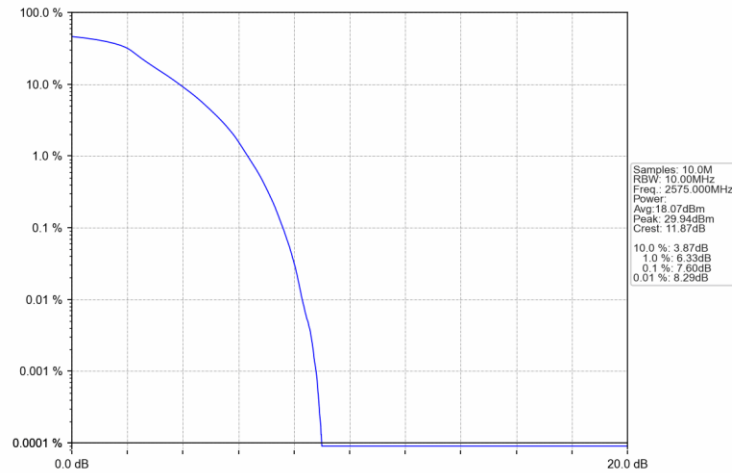


Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV

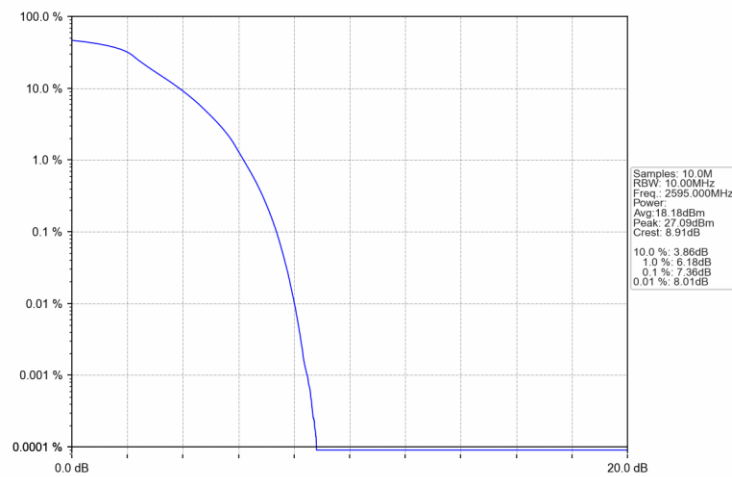


5.2.2 B38_10MHz

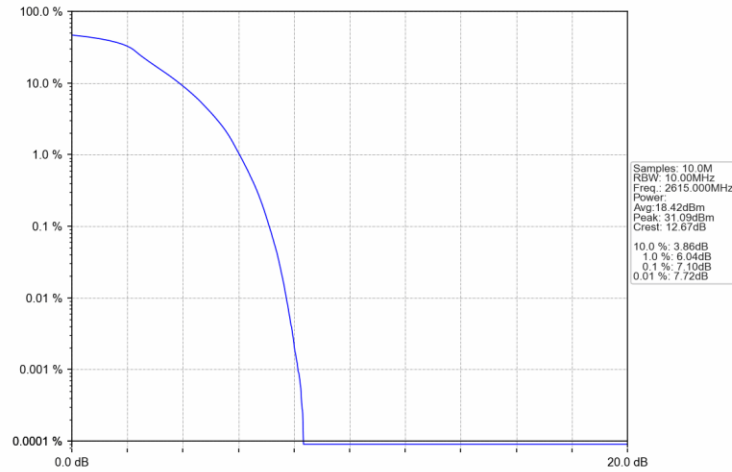
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



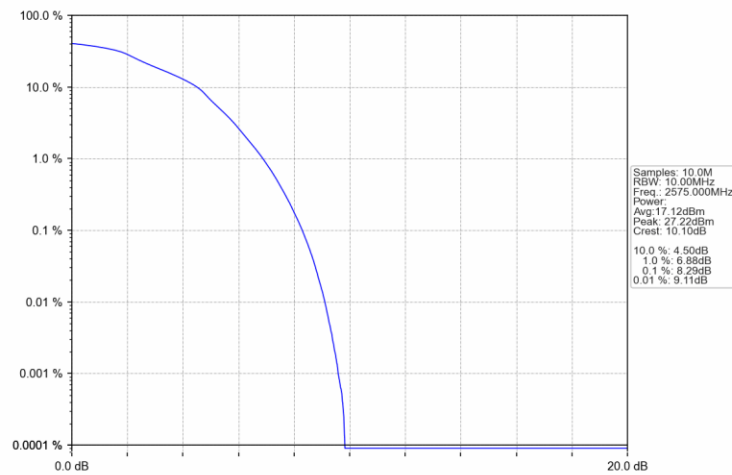
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



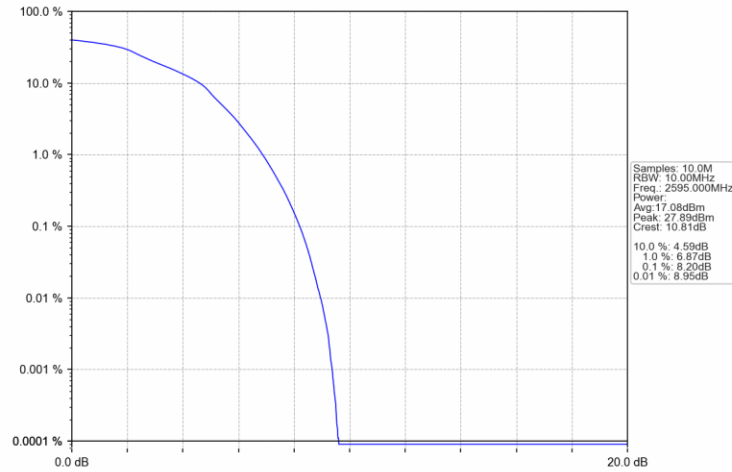
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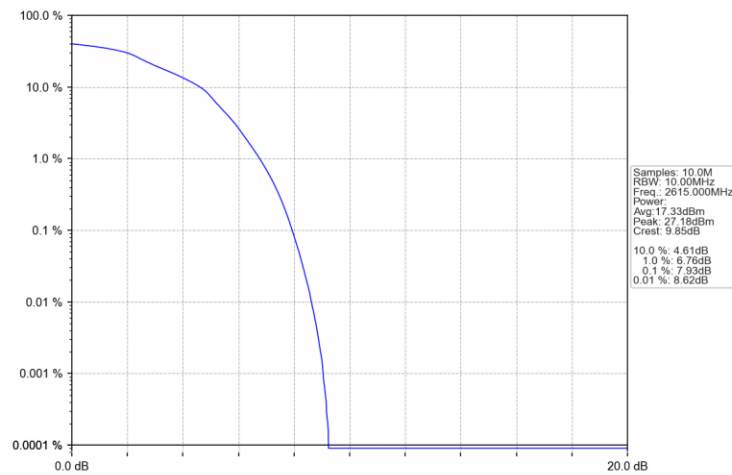
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV

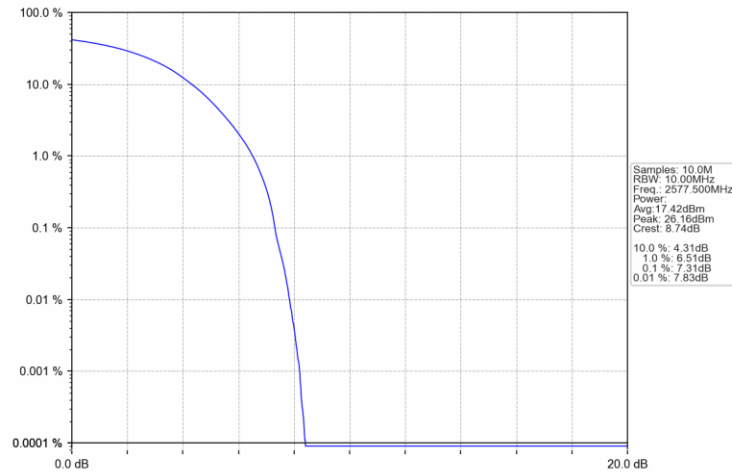


Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV

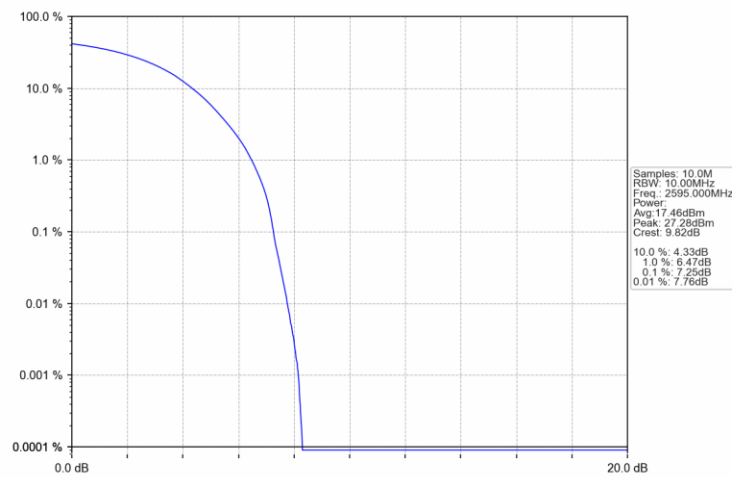


5.2.3 B38_15MHz

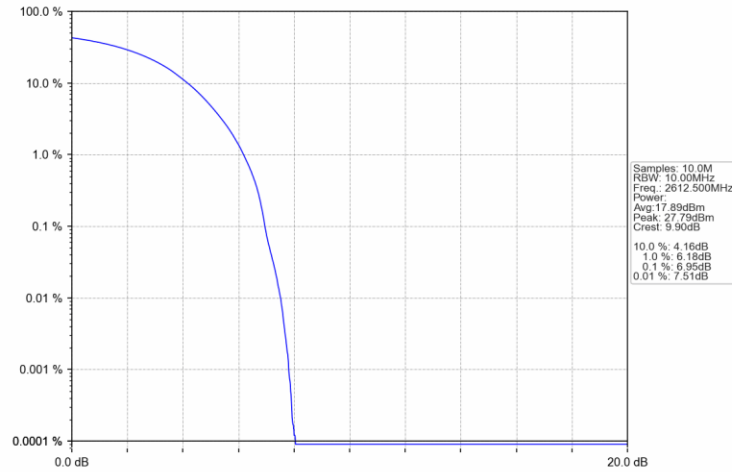
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



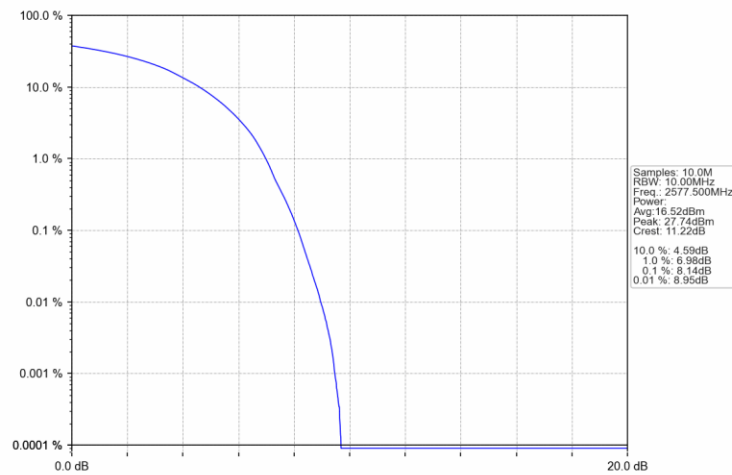
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



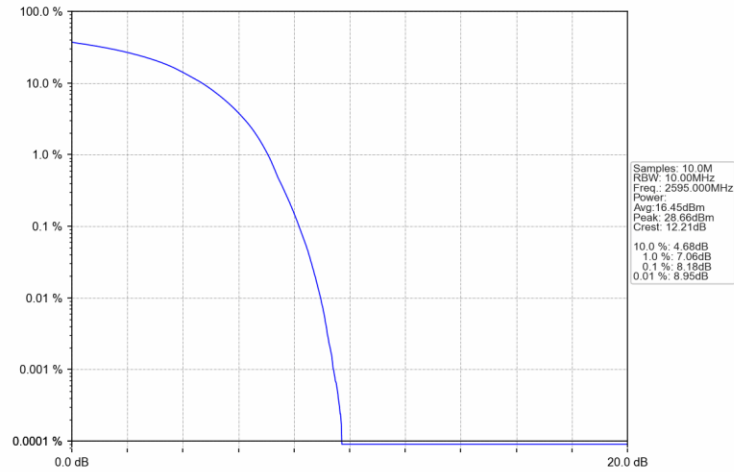
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



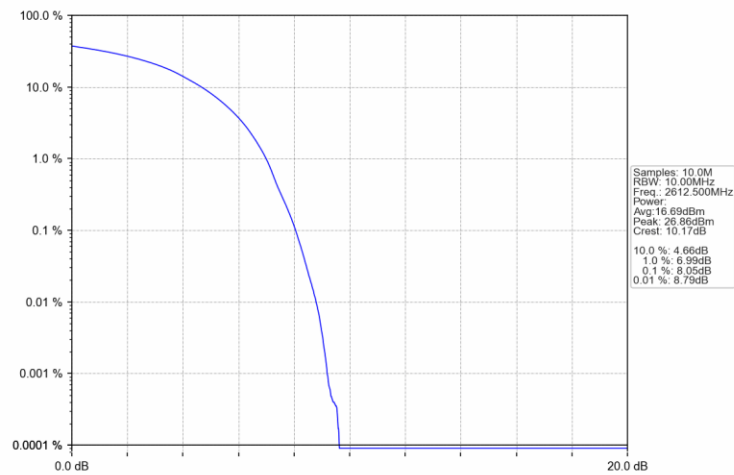
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



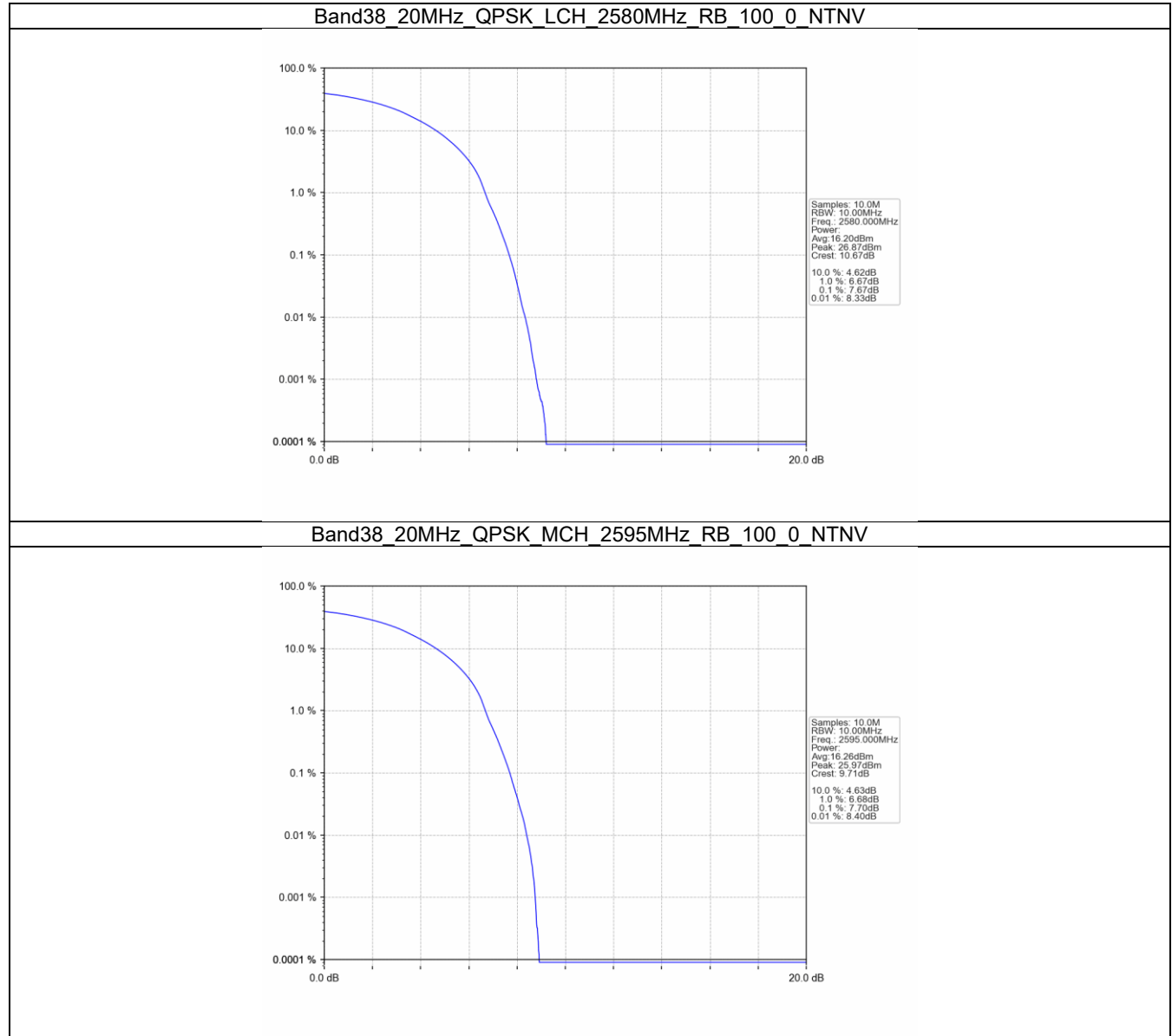
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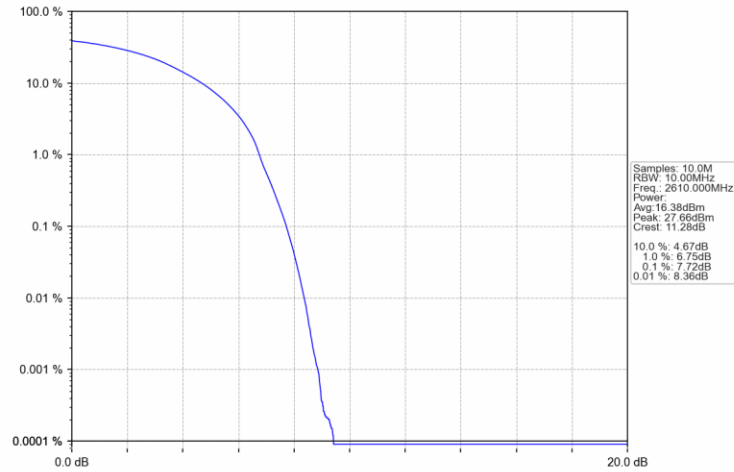
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



5.2.4 B38_20MHz



Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV

