

Appendix RF Test Data for LTE band 38

Company: : CHIGEE TECHNOLOGY CO., LTD.
EUT : Smart Riding System
FCC ID : 2A95C-AIO-6LTE
Model Number : AIO-6 LTE
Report No. : HTT2024121247F07
Reviewed By : Heber He

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	23.39	-3.84	19.55	<=33.01	Pass
			13	23.16	-3.84	19.32	<=33.01	Pass
			24	23.34	-3.84	19.50	<=33.01	Pass
		12	0	22.42	-3.84	18.58	<=33.01	Pass
			6	22.37	-3.84	18.53	<=33.01	Pass
			13	22.79	-3.84	18.95	<=33.01	Pass
		25	0	22.10	-3.84	18.26	<=33.01	Pass
	2595	1	0	23.27	-3.84	19.43	<=33.01	Pass
			13	23.12	-3.84	19.28	<=33.01	Pass
			24	23.30	-3.84	19.46	<=33.01	Pass
		12	0	22.48	-3.84	18.64	<=33.01	Pass
			6	22.46	-3.84	18.62	<=33.01	Pass
			13	22.91	-3.84	19.07	<=33.01	Pass
		25	0	22.13	-3.84	18.29	<=33.01	Pass
	2617.5	1	0	23.89	-3.84	20.05	<=33.01	Pass
			13	23.30	-3.84	19.46	<=33.01	Pass
			24	23.77	-3.84	19.93	<=33.01	Pass
		12	0	22.88	-3.84	19.04	<=33.01	Pass
			6	22.75	-3.84	18.91	<=33.01	Pass
			13	22.82	-3.84	18.98	<=33.01	Pass
		25	0	22.55	-3.84	18.71	<=33.01	Pass
16QAM	2572.5	1	0	22.44	-3.84	18.60	<=33.01	Pass
			13	22.23	-3.84	18.39	<=33.01	Pass
			24	22.48	-3.84	18.64	<=33.01	Pass
		12	0	21.38	-3.84	17.54	<=33.01	Pass
			6	21.36	-3.84	17.52	<=33.01	Pass
			13	21.77	-3.84	17.93	<=33.01	Pass
		25	0	21.08	-3.84	17.24	<=33.01	Pass
	2595	1	0	22.21	-3.84	18.37	<=33.01	Pass
			13	21.87	-3.84	18.03	<=33.01	Pass
			24	22.49	-3.84	18.65	<=33.01	Pass
		12	0	21.47	-3.84	17.63	<=33.01	Pass
			6	21.28	-3.84	17.44	<=33.01	Pass
			13	21.82	-3.84	17.98	<=33.01	Pass
		25	0	21.17	-3.84	17.33	<=33.01	Pass
	2617.5	1	0	22.98	-3.84	19.14	<=33.01	Pass
			13	22.78	-3.84	18.94	<=33.01	Pass
			24	22.89	-3.84	19.05	<=33.01	Pass
		12	0	21.95	-3.84	18.11	<=33.01	Pass
6			21.90	-3.84	18.06	<=33.01	Pass	
13			21.90	-3.84	18.06	<=33.01	Pass	
25		0	21.57	-3.84	17.73	<=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	23.90	-3.84	20.06	<=33.01	Pass	
			25	23.19	-3.84	19.35	<=33.01	Pass	
			49	23.19	-3.84	19.35	<=33.01	Pass	
		25	0	22.75	-3.84	18.91	<=33.01	Pass	
			13	22.74	-3.84	18.90	<=33.01	Pass	
			25	22.96	-3.84	19.12	<=33.01	Pass	
		50	0	22.19	-3.84	18.35	<=33.01	Pass	
		2595	1	0	22.26	-3.84	18.42	<=33.01	Pass
				25	22.23	-3.84	18.39	<=33.01	Pass
	49			22.25	-3.84	18.41	<=33.01	Pass	
	25		0	22.24	-3.84	18.40	<=33.01	Pass	
			13	22.29	-3.84	18.45	<=33.01	Pass	
			25	22.21	-3.84	18.37	<=33.01	Pass	
	50	0	22.21	-3.84	18.37	<=33.01	Pass		
	2615	1	0	22.50	-3.84	18.66	<=33.01	Pass	
			25	22.55	-3.84	18.71	<=33.01	Pass	
			49	22.47	-3.84	18.63	<=33.01	Pass	
		25	0	22.43	-3.84	18.59	<=33.01	Pass	
			13	22.51	-3.84	18.67	<=33.01	Pass	
			25	22.49	-3.84	18.65	<=33.01	Pass	
		50	0	22.54	-3.84	18.70	<=33.01	Pass	
16QAM		2575	1	0	22.64	-3.84	18.80	<=33.01	Pass
				25	22.29	-3.84	18.45	<=33.01	Pass
	49			22.35	-3.84	18.51	<=33.01	Pass	
	12		0	22.22	-3.84	18.38	<=33.01	Pass	
			19	22.14	-3.84	18.30	<=33.01	Pass	
			38	22.21	-3.84	18.37	<=33.01	Pass	
	27		0	22.25	-3.84	18.41	<=33.01	Pass	
	2595	1	0	22.20	-3.84	18.36	<=33.01	Pass	
			25	22.26	-3.84	18.42	<=33.01	Pass	
			49	22.18	-3.84	18.34	<=33.01	Pass	
		12	0	22.25	-3.84	18.41	<=33.01	Pass	
			19	22.23	-3.84	18.39	<=33.01	Pass	
			38	22.23	-3.84	18.39	<=33.01	Pass	
	27	0	22.22	-3.84	18.38	<=33.01	Pass		
	2615	1	0	22.52	-3.84	18.68	<=33.01	Pass	
			25	22.50	-3.84	18.66	<=33.01	Pass	
			49	22.49	-3.84	18.65	<=33.01	Pass	
		12	0	22.58	-3.84	18.74	<=33.01	Pass	
19			22.59	-3.84	18.75	<=33.01	Pass		
38			22.58	-3.84	18.74	<=33.01	Pass		
27		23	22.50	-3.84	18.66	<=33.01	Pass		
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	23.74	-3.84	19.90	<=33.01	Pass
			38	23.19	-3.84	19.35	<=33.01	Pass
			74	23.09	-3.84	19.25	<=33.01	Pass
		36	0	22.82	-3.84	18.98	<=33.01	Pass
			18	22.85	-3.84	19.01	<=33.01	Pass
			39	23.09	-3.84	19.25	<=33.01	Pass

16QAM	2595	75	0	22.31	-3.84	18.47	<=33.01	Pass
		1	0	23.56	-3.84	19.72	<=33.01	Pass
			38	23.08	-3.84	19.24	<=33.01	Pass
			74	22.98	-3.84	19.14	<=33.01	Pass
		36	0	22.57	-3.84	18.73	<=33.01	Pass
			18	22.53	-3.84	18.69	<=33.01	Pass
			39	23.16	-3.84	19.32	<=33.01	Pass
		75	0	22.17	-3.84	18.33	<=33.01	Pass
	2612.5	1	0	24.63	-3.84	20.79	<=33.01	Pass
			38	23.38	-3.84	19.54	<=33.01	Pass
			74	23.86	-3.84	20.02	<=33.01	Pass
		36	0	22.75	-3.84	18.91	<=33.01	Pass
			18	22.78	-3.84	18.94	<=33.01	Pass
			39	23.08	-3.84	19.24	<=33.01	Pass
		75	0	22.36	-3.84	18.52	<=33.01	Pass
	2577.5	1	0	22.64	-3.84	18.80	<=33.01	Pass
			38	22.03	-3.84	18.19	<=33.01	Pass
			74	21.96	-3.84	18.12	<=33.01	Pass
		12	0	22.91	-3.84	19.07	<=33.01	Pass
			31	22.25	-3.84	18.41	<=33.01	Pass
			63	22.60	-3.84	18.76	<=33.01	Pass
		27	0	21.87	-3.84	18.03	<=33.01	Pass
	2595	1	0	22.41	-3.84	18.57	<=33.01	Pass
			38	22.16	-3.84	18.32	<=33.01	Pass
			74	21.95	-3.84	18.11	<=33.01	Pass
		12	0	22.72	-3.84	18.88	<=33.01	Pass
			31	22.31	-3.84	18.47	<=33.01	Pass
			63	22.72	-3.84	18.88	<=33.01	Pass
		27	0	21.65	-3.84	17.81	<=33.01	Pass
	2612.5	1	0	23.51	-3.84	19.67	<=33.01	Pass
			38	22.22	-3.84	18.38	<=33.01	Pass
			74	22.83	-3.84	18.99	<=33.01	Pass
		12	0	23.01	-3.84	19.17	<=33.01	Pass
			31	22.48	-3.84	18.64	<=33.01	Pass
			63	22.88	-3.84	19.04	<=33.01	Pass
		27	48	22.10	-3.84	18.26	<=33.01	Pass

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	23.60	-3.84	19.76	<=33.01	Pass
			50	23.56	-3.84	19.72	<=33.01	Pass
			99	22.56	-3.84	18.72	<=33.01	Pass
		50	0	22.85	-3.84	19.01	<=33.01	Pass
			25	22.80	-3.84	18.96	<=33.01	Pass
			50	23.47	-3.84	19.63	<=33.01	Pass
		100	0	22.24	-3.84	18.40	<=33.01	Pass
	2595	1	0	23.64	-3.84	19.80	<=33.01	Pass
			50	23.26	-3.84	19.42	<=33.01	Pass
			99	22.68	-3.84	18.84	<=33.01	Pass
		50	0	22.94	-3.84	19.10	<=33.01	Pass
			25	22.86	-3.84	19.02	<=33.01	Pass
			50	23.35	-3.84	19.51	<=33.01	Pass
		100	0	22.11	-3.84	18.27	<=33.01	Pass

	2610	1	0	24.31	-3.84	20.47	<=33.01	Pass		
			50	23.34	-3.84	19.50	<=33.01	Pass		
			99	23.65	-3.84	19.81	<=33.01	Pass		
		50	0	22.87	-3.84	19.03	<=33.01	Pass		
			25	22.75	-3.84	18.91	<=33.01	Pass		
			50	23.31	-3.84	19.47	<=33.01	Pass		
		100	0	22.21	-3.84	18.37	<=33.01	Pass		
		16QAM	2580	1	0	22.36	-3.84	18.52	<=33.01	Pass
					50	22.44	-3.84	18.60	<=33.01	Pass
99	21.59				-3.84	17.75	<=33.01	Pass		
12	0			22.77	-3.84	18.93	<=33.01	Pass		
	44			22.51	-3.84	18.67	<=33.01	Pass		
	88			22.45	-3.84	18.61	<=33.01	Pass		
27	0			21.83	-3.84	17.99	<=33.01	Pass		
2595	1			0	22.75	-3.84	18.91	<=33.01	Pass	
				50	21.92	-3.84	18.08	<=33.01	Pass	
			99	21.76	-3.84	17.92	<=33.01	Pass		
	12		0	22.87	-3.84	19.03	<=33.01	Pass		
			44	22.37	-3.84	18.53	<=33.01	Pass		
			88	22.39	-3.84	18.55	<=33.01	Pass		
	27		0	21.93	-3.84	18.09	<=33.01	Pass		
	2610		1	0	23.55	-3.84	19.71	<=33.01	Pass	
				50	22.11	-3.84	18.27	<=33.01	Pass	
99				22.13	-3.84	18.29	<=33.01	Pass		
12			0	22.23	-3.84	18.39	<=33.01	Pass		
			44	22.18	-3.84	18.34	<=33.01	Pass		
			88	22.16	-3.84	18.32	<=33.01	Pass		
27			73	22.19	-3.84	18.35	<=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	10.8	3.033	0.0012	-2.5 to 2.5	Pass
					12	0.730	0.0003	-2.5 to 2.5	Pass
					19.8	4.592	0.0018	-2.5 to 2.5	Pass
				-30	12	-2.146	-0.0008	-2.5 to 2.5	Pass
				-20	12	-1.945	-0.0008	-2.5 to 2.5	Pass
				-10	12	1.230	0.0005	-2.5 to 2.5	Pass
				0	12	1.001	0.0004	-2.5 to 2.5	Pass
				10	12	1.974	0.0008	-2.5 to 2.5	Pass
				30	12	2.003	0.0008	-2.5 to 2.5	Pass
				40	12	-14.462	-0.0056	-2.5 to 2.5	Pass
				50	12	-12.460	-0.0048	-2.5 to 2.5	Pass
	2595	25	0	20	10.8	-8.326	-0.0032	-2.5 to 2.5	Pass
					12	3.319	0.0013	-2.5 to 2.5	Pass
					19.8	0.572	0.0002	-2.5 to 2.5	Pass
				-30	12	-3.405	-0.0013	-2.5 to 2.5	Pass
				-20	12	-3.333	-0.0013	-2.5 to 2.5	Pass
				-10	12	-3.977	-0.0015	-2.5 to 2.5	Pass

				0	12	-7.081	-0.0027	-2.5 to 2.5	Pass
				10	12	-10.915	-0.0042	-2.5 to 2.5	Pass
				30	12	28.353	0.0109	-2.5 to 2.5	Pass
				40	12	1.459	0.0006	-2.5 to 2.5	Pass
				50	12	7.081	0.0027	-2.5 to 2.5	Pass
	2617.5	25	0	20	10.8	-12.488	-0.0048	-2.5 to 2.5	Pass
					12	3.290	0.0013	-2.5 to 2.5	Pass
					19.8	-2.275	-0.0009	-2.5 to 2.5	Pass
				-30	12	-5.407	-0.0021	-2.5 to 2.5	Pass
				-20	12	-1.602	-0.0006	-2.5 to 2.5	Pass
				-10	12	3.276	0.0013	-2.5 to 2.5	Pass
				0	12	-3.877	-0.0015	-2.5 to 2.5	Pass
				10	12	3.176	0.0012	-2.5 to 2.5	Pass
				30	12	1.845	0.0007	-2.5 to 2.5	Pass
				40	12	0.701	0.0003	-2.5 to 2.5	Pass
				50	12	1.516	0.0006	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	10.8	-8.612	-0.0033	-2.5 to 2.5	Pass
					12	-7.353	-0.0029	-2.5 to 2.5	Pass
					19.8	-6.580	-0.0026	-2.5 to 2.5	Pass
				-30	12	-7.997	-0.0031	-2.5 to 2.5	Pass
				-20	12	-7.524	-0.0029	-2.5 to 2.5	Pass
				-10	12	-11.616	-0.0045	-2.5 to 2.5	Pass
				0	12	-8.512	-0.0033	-2.5 to 2.5	Pass
				10	12	-11.773	-0.0046	-2.5 to 2.5	Pass
				30	12	-13.947	-0.0054	-2.5 to 2.5	Pass
				40	12	-6.766	-0.0026	-2.5 to 2.5	Pass
				50	12	-11.859	-0.0046	-2.5 to 2.5	Pass
	2595	25	0	20	10.8	3.862	0.0015	-2.5 to 2.5	Pass
					12	4.034	0.0016	-2.5 to 2.5	Pass
					19.8	0.672	0.0003	-2.5 to 2.5	Pass
				-30	12	-1.087	-0.0004	-2.5 to 2.5	Pass
				-20	12	-0.501	-0.0002	-2.5 to 2.5	Pass
				-10	12	4.764	0.0018	-2.5 to 2.5	Pass
				0	12	-1.044	-0.0004	-2.5 to 2.5	Pass
				10	12	4.020	0.0015	-2.5 to 2.5	Pass
				30	12	2.260	0.0009	-2.5 to 2.5	Pass
				40	12	-10.214	-0.0039	-2.5 to 2.5	Pass
				50	12	2.060	0.0008	-2.5 to 2.5	Pass
	2617.5	25	0	20	10.8	-0.658	-0.0003	-2.5 to 2.5	Pass
					12	-1.988	-0.0008	-2.5 to 2.5	Pass
					19.8	1.502	0.0006	-2.5 to 2.5	Pass
				-30	12	-3.934	-0.0015	-2.5 to 2.5	Pass
				-20	12	1.531	0.0006	-2.5 to 2.5	Pass
				-10	12	2.275	0.0009	-2.5 to 2.5	Pass
				0	12	-3.347	-0.0013	-2.5 to 2.5	Pass
				10	12	0.043	0.0000	-2.5 to 2.5	Pass
				30	12	-1.917	-0.0007	-2.5 to 2.5	Pass
				40	12	1.373	0.0005	-2.5 to 2.5	Pass
				50	12	4.635	0.0018	-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	10.8	9.127	0.0035	-2.5 to 2.5	Pass
					12	2.360	0.0009	-2.5 to 2.5	Pass

					19.8	-3.390	-0.0013	-2.5 to 2.5	Pass
				-30	12	5.322	0.0021	-2.5 to 2.5	Pass
				-20	12	2.518	0.0010	-2.5 to 2.5	Pass
				-10	12	-3.834	-0.0015	-2.5 to 2.5	Pass
				0	12	2.518	0.0010	-2.5 to 2.5	Pass
				10	12	2.418	0.0009	-2.5 to 2.5	Pass
				30	12	2.947	0.0011	-2.5 to 2.5	Pass
				40	12	-2.532	-0.0010	-2.5 to 2.5	Pass
				50	12	-3.991	-0.0015	-2.5 to 2.5	Pass
	2595	50	0	20	10.8	35.520	0.0137	-2.5 to 2.5	Pass
					12	1.845	0.0007	-2.5 to 2.5	Pass
					19.8	5.236	0.0020	-2.5 to 2.5	Pass
				-30	12	-3.161	-0.0012	-2.5 to 2.5	Pass
				-20	12	-2.332	-0.0009	-2.5 to 2.5	Pass
				-10	12	1.659	0.0006	-2.5 to 2.5	Pass
				0	12	-2.389	-0.0009	-2.5 to 2.5	Pass
				10	12	4.377	0.0017	-2.5 to 2.5	Pass
				30	12	-3.076	-0.0012	-2.5 to 2.5	Pass
				40	12	2.117	0.0008	-2.5 to 2.5	Pass
				50	12	-3.576	-0.0014	-2.5 to 2.5	Pass
	2615	50	0	20	10.8	-2.589	-0.0010	-2.5 to 2.5	Pass
					12	-2.174	-0.0008	-2.5 to 2.5	Pass
					19.8	8.812	0.0034	-2.5 to 2.5	Pass
				-30	12	-2.217	-0.0008	-2.5 to 2.5	Pass
				-20	12	0.572	0.0002	-2.5 to 2.5	Pass
				-10	12	-0.715	-0.0003	-2.5 to 2.5	Pass
				0	12	2.604	0.0010	-2.5 to 2.5	Pass
				10	12	3.333	0.0013	-2.5 to 2.5	Pass
				30	12	1.373	0.0005	-2.5 to 2.5	Pass
				40	12	2.275	0.0009	-2.5 to 2.5	Pass
				50	12	2.089	0.0008	-2.5 to 2.5	Pass
16QAM	2575	27	0	20	10.8	2.646	0.0010	-2.5 to 2.5	Pass
					12	1.688	0.0007	-2.5 to 2.5	Pass
					19.8	3.762	0.0015	-2.5 to 2.5	Pass
				-30	12	2.418	0.0009	-2.5 to 2.5	Pass
				-20	12	1.616	0.0006	-2.5 to 2.5	Pass
				-10	12	1.903	0.0007	-2.5 to 2.5	Pass
				0	12	3.519	0.0014	-2.5 to 2.5	Pass
				10	12	1.488	0.0006	-2.5 to 2.5	Pass
				30	12	-3.333	-0.0013	-2.5 to 2.5	Pass
	2595	27	0	20	10.8	2.103	0.0008	-2.5 to 2.5	Pass
					12	-2.804	-0.0011	-2.5 to 2.5	Pass
					19.8	1.960	0.0008	-2.5 to 2.5	Pass
				-30	12	0.043	0.0000	-2.5 to 2.5	Pass
				-20	12	-1.459	-0.0006	-2.5 to 2.5	Pass
				-10	12	-5.136	-0.0020	-2.5 to 2.5	Pass
				0	12	-3.333	-0.0013	-2.5 to 2.5	Pass
				10	12	-1.001	-0.0004	-2.5 to 2.5	Pass
				30	12	-4.606	-0.0018	-2.5 to 2.5	Pass
	2615	27	23	20	10.8	-1.473	-0.0006	-2.5 to 2.5	Pass
					12	2.060	0.0008	-2.5 to 2.5	Pass
					19.8	4.249	0.0016	-2.5 to 2.5	Pass
				-30	12	-0.458	-0.0002	-2.5 to 2.5	Pass
				-20	12	-0.930	-0.0004	-2.5 to 2.5	Pass
				-10	12	1.631	0.0006	-2.5 to 2.5	Pass

				0	12	-2.103	-0.0008	-2.5 to 2.5	Pass
				10	12	-3.304	-0.0013	-2.5 to 2.5	Pass
				30	12	1.416	0.0005	-2.5 to 2.5	Pass
				40	12	-2.518	-0.0010	-2.5 to 2.5	Pass
				50	12	2.089	0.0008	-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	10.8	0.544	0.0002	-2.5 to 2.5	Pass
					12	3.991	0.0015	-2.5 to 2.5	Pass
					19.8	10.815	0.0042	-2.5 to 2.5	Pass
				-30	12	0.157	0.0001	-2.5 to 2.5	Pass
				-20	12	-1.988	-0.0008	-2.5 to 2.5	Pass
				-10	12	-1.001	-0.0004	-2.5 to 2.5	Pass
				0	12	4.663	0.0018	-2.5 to 2.5	Pass
				10	12	-1.616	-0.0006	-2.5 to 2.5	Pass
				30	12	3.090	0.0012	-2.5 to 2.5	Pass
				40	12	-1.731	-0.0007	-2.5 to 2.5	Pass
				50	12	-1.101	-0.0004	-2.5 to 2.5	Pass
	2595	75	0	20	10.8	3.405	0.0013	-2.5 to 2.5	Pass
					12	-2.718	-0.0010	-2.5 to 2.5	Pass
					19.8	-3.562	-0.0014	-2.5 to 2.5	Pass
				-30	12	27.809	0.0107	-2.5 to 2.5	Pass
				-20	12	0.587	0.0002	-2.5 to 2.5	Pass
				-10	12	3.691	0.0014	-2.5 to 2.5	Pass
				0	12	2.460	0.0009	-2.5 to 2.5	Pass
				10	12	2.389	0.0009	-2.5 to 2.5	Pass
				30	12	3.076	0.0012	-2.5 to 2.5	Pass
				40	12	-1.245	-0.0005	-2.5 to 2.5	Pass
				50	12	1.516	0.0006	-2.5 to 2.5	Pass
	2612.5	75	0	20	10.8	-1.402	-0.0005	-2.5 to 2.5	Pass
					12	3.090	0.0012	-2.5 to 2.5	Pass
					19.8	-2.933	-0.0011	-2.5 to 2.5	Pass
				-30	12	2.589	0.0010	-2.5 to 2.5	Pass
				-20	12	25.320	0.0097	-2.5 to 2.5	Pass
				-10	12	5.679	0.0022	-2.5 to 2.5	Pass
				0	12	4.306	0.0016	-2.5 to 2.5	Pass
				10	12	0.844	0.0003	-2.5 to 2.5	Pass
				30	12	-3.176	-0.0012	-2.5 to 2.5	Pass
				40	12	3.633	0.0014	-2.5 to 2.5	Pass
				50	12	1.559	0.0006	-2.5 to 2.5	Pass
16QAM	2577.5	27	0	20	10.8	0.930	0.0004	-2.5 to 2.5	Pass
					12	-2.074	-0.0008	-2.5 to 2.5	Pass
					19.8	-2.761	-0.0011	-2.5 to 2.5	Pass
				-30	12	-3.376	-0.0013	-2.5 to 2.5	Pass
				-20	12	-4.206	-0.0016	-2.5 to 2.5	Pass
				-10	12	-1.259	-0.0005	-2.5 to 2.5	Pass
				0	12	-2.475	-0.0010	-2.5 to 2.5	Pass
				10	12	-3.920	-0.0015	-2.5 to 2.5	Pass
				30	12	1.101	0.0004	-2.5 to 2.5	Pass
				40	12	-3.619	-0.0014	-2.5 to 2.5	Pass
				50	12	-5.021	-0.0019	-2.5 to 2.5	Pass
	2595	27	0	20	10.8	4.091	0.0016	-2.5 to 2.5	Pass
					12	1.388	0.0005	-2.5 to 2.5	Pass

					19.8	-4.163	-0.0016	-2.5 to 2.5	Pass
				-30	12	-0.687	-0.0003	-2.5 to 2.5	Pass
				-20	12	-2.289	-0.0009	-2.5 to 2.5	Pass
				-10	12	2.232	0.0009	-2.5 to 2.5	Pass
				0	12	1.287	0.0005	-2.5 to 2.5	Pass
				10	12	0.987	0.0004	-2.5 to 2.5	Pass
				30	12	-3.047	-0.0012	-2.5 to 2.5	Pass
				40	12	-2.375	-0.0009	-2.5 to 2.5	Pass
				50	12	-4.349	-0.0017	-2.5 to 2.5	Pass
	2612.5	27	48	20	10.8	0.043	0.0000	-2.5 to 2.5	Pass
					12	2.604	0.0010	-2.5 to 2.5	Pass
					19.8	1.717	0.0007	-2.5 to 2.5	Pass
				-30	12	-1.545	-0.0006	-2.5 to 2.5	Pass
				-20	12	-5.279	-0.0020	-2.5 to 2.5	Pass
				-10	12	3.848	0.0015	-2.5 to 2.5	Pass
				0	12	1.888	0.0007	-2.5 to 2.5	Pass
				10	12	-2.604	-0.0010	-2.5 to 2.5	Pass
				30	12	3.862	0.0015	-2.5 to 2.5	Pass
				40	12	-0.529	-0.0002	-2.5 to 2.5	Pass
				50	12	-3.834	-0.0015	-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	10.8	6.251	0.0024	-2.5 to 2.5	Pass
					12	-1.545	-0.0006	-2.5 to 2.5	Pass
					19.8	-1.831	-0.0007	-2.5 to 2.5	Pass
				-30	12	6.509	0.0025	-2.5 to 2.5	Pass
				-20	12	5.350	0.0021	-2.5 to 2.5	Pass
				-10	12	3.848	0.0015	-2.5 to 2.5	Pass
				0	12	4.950	0.0019	-2.5 to 2.5	Pass
				10	12	-1.645	-0.0006	-2.5 to 2.5	Pass
				30	12	-3.061	-0.0012	-2.5 to 2.5	Pass
				40	12	2.890	0.0011	-2.5 to 2.5	Pass
				50	12	0.529	0.0002	-2.5 to 2.5	Pass
	2595	100	0	20	10.8	-0.315	-0.0001	-2.5 to 2.5	Pass
					12	16.909	0.0065	-2.5 to 2.5	Pass
					19.8	6.080	0.0023	-2.5 to 2.5	Pass
				-30	12	-2.060	-0.0008	-2.5 to 2.5	Pass
				-20	12	-1.173	-0.0005	-2.5 to 2.5	Pass
				-10	12	2.532	0.0010	-2.5 to 2.5	Pass
				0	12	2.389	0.0009	-2.5 to 2.5	Pass
				10	12	-9.542	-0.0037	-2.5 to 2.5	Pass
				30	12	1.845	0.0007	-2.5 to 2.5	Pass
				40	12	0.472	0.0002	-2.5 to 2.5	Pass
				50	12	0.443	0.0002	-2.5 to 2.5	Pass
	2610	100	0	20	10.8	-1.245	-0.0005	-2.5 to 2.5	Pass
					12	3.533	0.0014	-2.5 to 2.5	Pass
					19.8	4.349	0.0017	-2.5 to 2.5	Pass
				-30	12	2.046	0.0008	-2.5 to 2.5	Pass
				-20	12	1.717	0.0007	-2.5 to 2.5	Pass
				-10	12	-4.334	-0.0017	-2.5 to 2.5	Pass
				0	12	1.988	0.0008	-2.5 to 2.5	Pass
				10	12	1.516	0.0006	-2.5 to 2.5	Pass
				30	12	0.615	0.0002	-2.5 to 2.5	Pass

16QAM	2580	27	0	40	12	2.360	0.0009	-2.5 to 2.5	Pass
				50	12	0.944	0.0004	-2.5 to 2.5	Pass
				20	10.8	-4.492	-0.0017	-2.5 to 2.5	Pass
					12	-5.393	-0.0021	-2.5 to 2.5	Pass
					19.8	-4.363	-0.0017	-2.5 to 2.5	Pass
				-30	12	-2.732	-0.0011	-2.5 to 2.5	Pass
				-20	12	0.687	0.0003	-2.5 to 2.5	Pass
				-10	12	2.875	0.0011	-2.5 to 2.5	Pass
				0	12	-0.544	-0.0002	-2.5 to 2.5	Pass
				10	12	2.775	0.0011	-2.5 to 2.5	Pass
				30	12	-1.674	-0.0006	-2.5 to 2.5	Pass
				40	12	2.046	0.0008	-2.5 to 2.5	Pass
				50	12	2.546	0.0010	-2.5 to 2.5	Pass
	2595	27	0	20	10.8	2.074	0.0008	-2.5 to 2.5	Pass
					12	-2.089	-0.0008	-2.5 to 2.5	Pass
					19.8	-3.362	-0.0013	-2.5 to 2.5	Pass
				-30	12	-3.548	-0.0014	-2.5 to 2.5	Pass
				-20	12	2.618	0.0010	-2.5 to 2.5	Pass
				-10	12	-4.535	-0.0017	-2.5 to 2.5	Pass
				0	12	1.888	0.0007	-2.5 to 2.5	Pass
				10	12	-2.675	-0.0010	-2.5 to 2.5	Pass
				30	12	-0.601	-0.0002	-2.5 to 2.5	Pass
				40	12	2.847	0.0011	-2.5 to 2.5	Pass
				50	12	28.868	0.0111	-2.5 to 2.5	Pass
	2610	27	73	20	10.8	0.701	0.0003	-2.5 to 2.5	Pass
					12	-3.934	-0.0015	-2.5 to 2.5	Pass
					19.8	2.832	0.0011	-2.5 to 2.5	Pass
				-30	12	0.000	0.0000	-2.5 to 2.5	Pass
				-20	12	1.087	0.0004	-2.5 to 2.5	Pass
				-10	12	1.044	0.0004	-2.5 to 2.5	Pass
				0	12	0.572	0.0002	-2.5 to 2.5	Pass
				10	12	14.749	0.0057	-2.5 to 2.5	Pass
				30	12	3.262	0.0012	-2.5 to 2.5	Pass
				40	12	-2.432	-0.0009	-2.5 to 2.5	Pass
				50	12	-0.215	-0.0001	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

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

3.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	2595	50	0	Refer To Test Graph	
16QAM	2595	27	0	Refer To Test Graph	

3.1.3 B38_15MHz

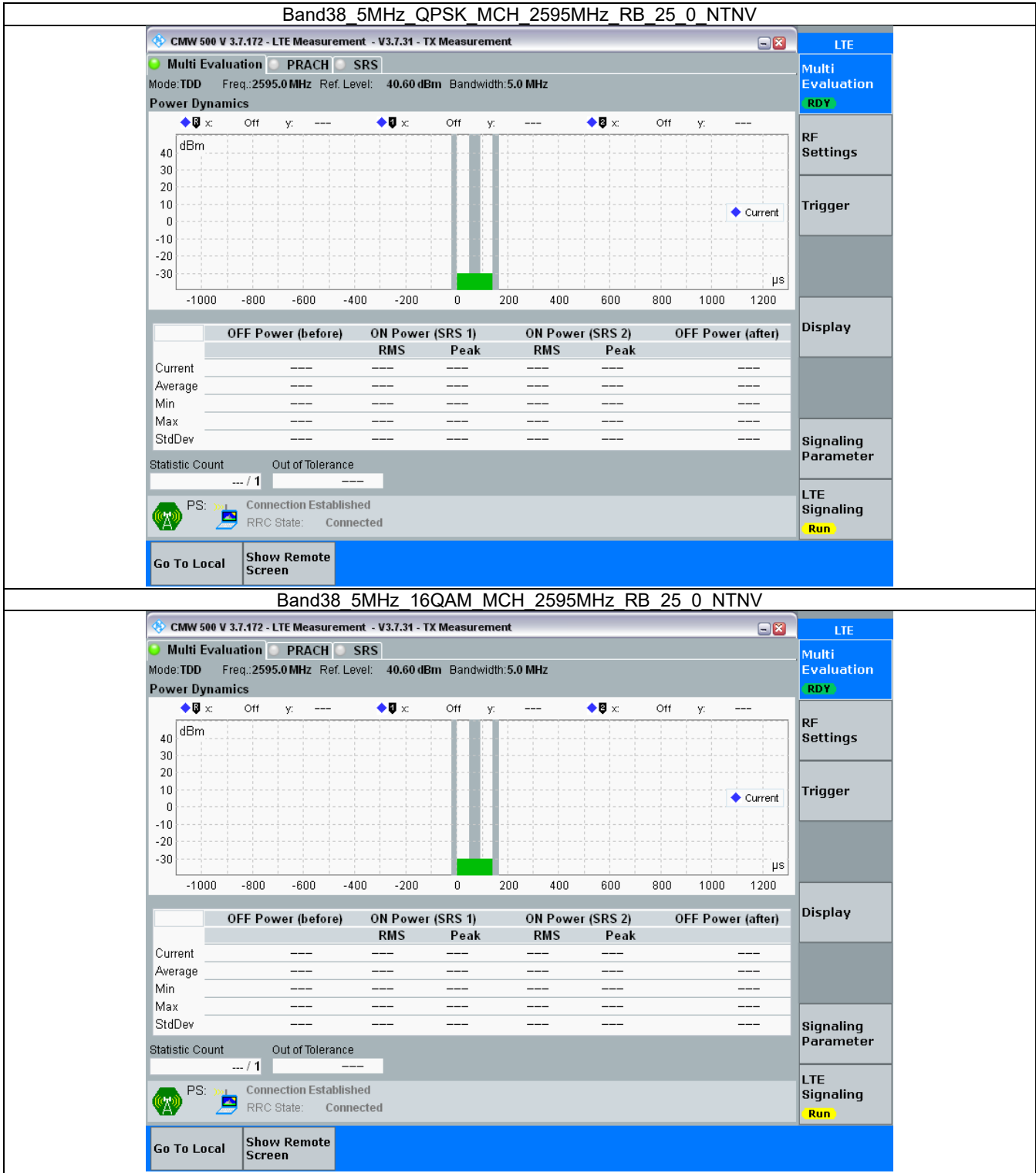
Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	27	0	Refer To Test Graph		Pass

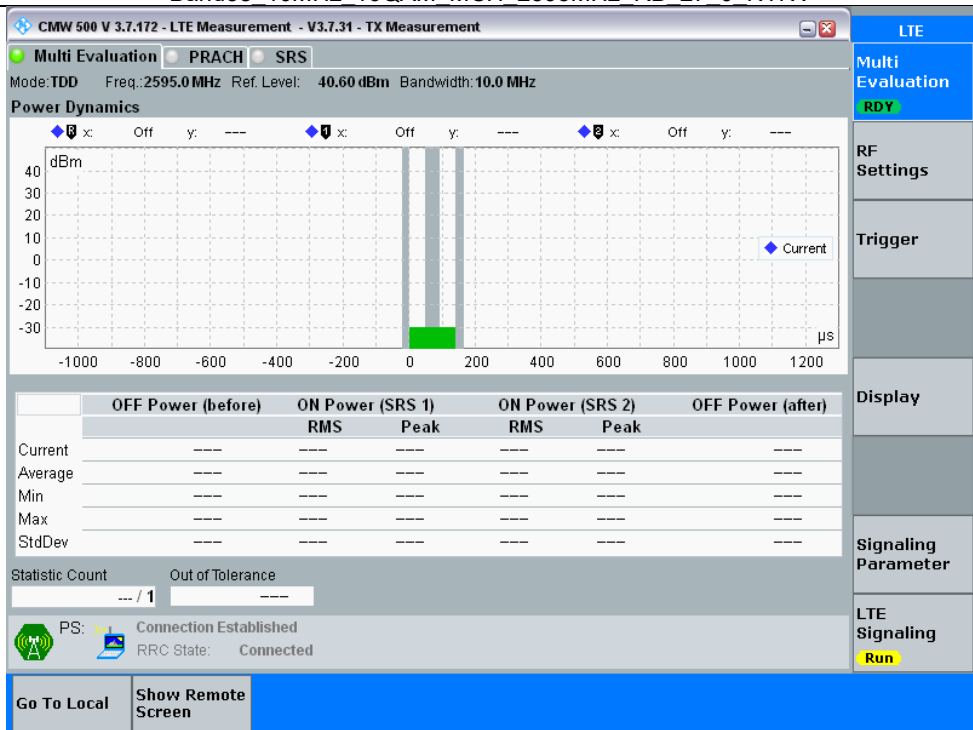
3.1.4 B38_20MHz

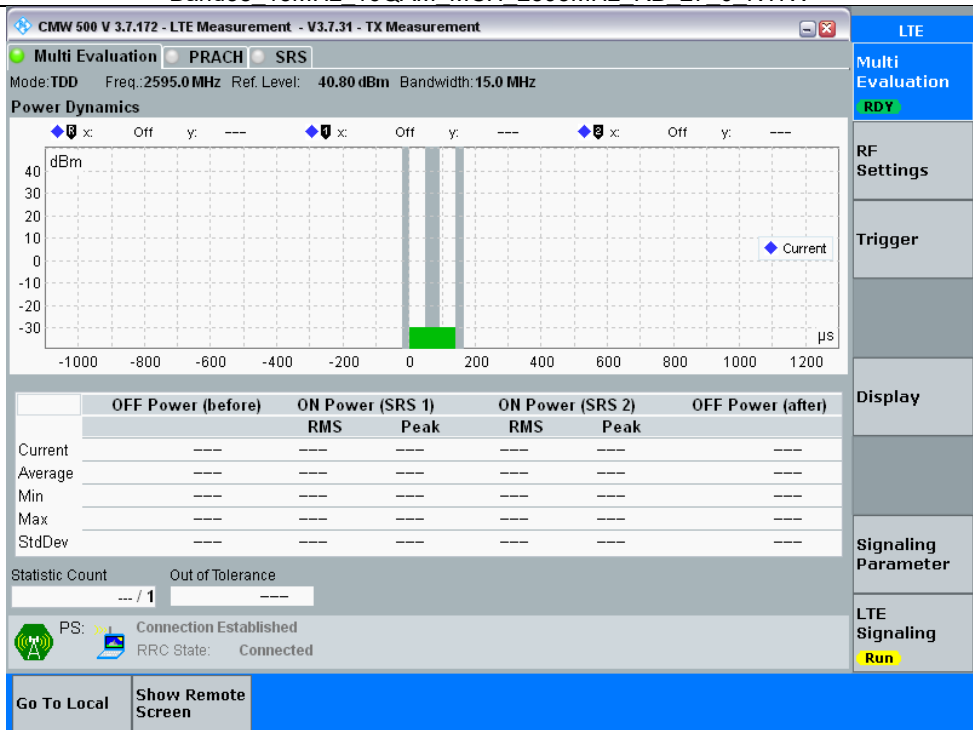
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	27	0	Refer To Test Graph		Pass

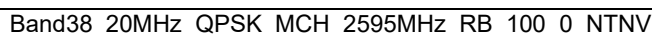
3.2 Test Graph

3.2.1 B38_5MHz









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	4.523	/	Pass
		2595	25	0	4.511	/	Pass
		2617.5	25	0	4.517	/	Pass
	16QAM	2572.5	25	0	4.524	/	Pass
		2595	25	0	4.519	/	Pass
		2617.5	25	0	4.542	/	Pass
10	QPSK	2575	50	0	9.002	/	Pass
		2595	50	0	8.972	/	Pass
		2615	50	0	8.967	/	Pass
	16QAM	2575	27	0	5.500	/	Pass
		2595	27	0	5.374	/	Pass
		2615	27	23	5.314	/	Pass
15	QPSK	2577.5	75	0	13.692	/	Pass
		2595	75	0	13.661	/	Pass
		2612.5	75	0	13.642	/	Pass
	16QAM	2577.5	27	0	6.209	/	Pass
		2595	27	0	6.140	/	Pass
		2612.5	27	48	7.518	/	Pass
20	QPSK	2580	100	0	18.138	/	Pass
		2595	100	0	18.123	/	Pass
		2610	100	0	18.084	/	Pass
	16QAM	2580	27	0	7.641	/	Pass
		2595	27	0	7.541	/	Pass
		2610	27	73	14.938	/	Pass

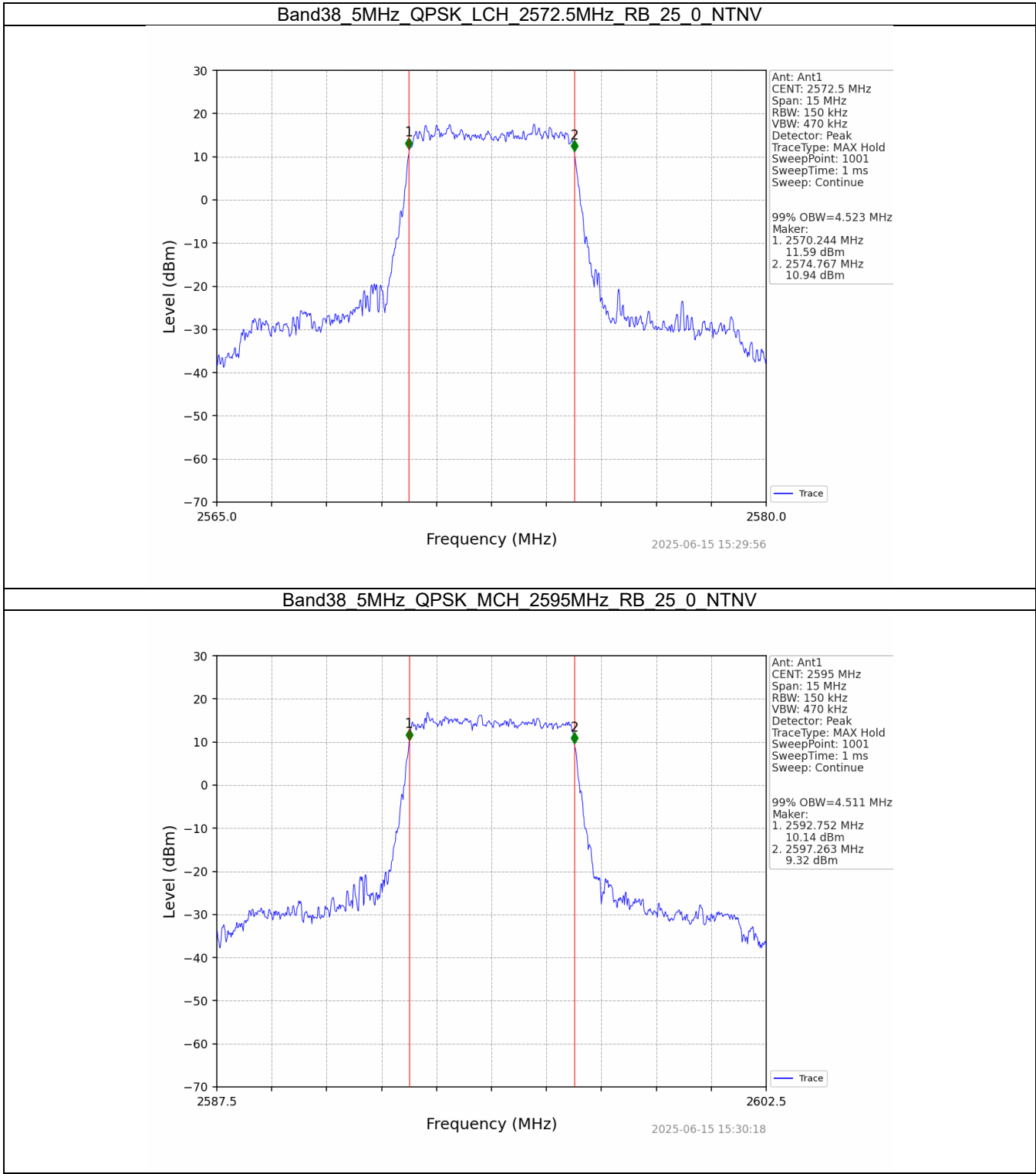
4.1.2 Band38_XDB

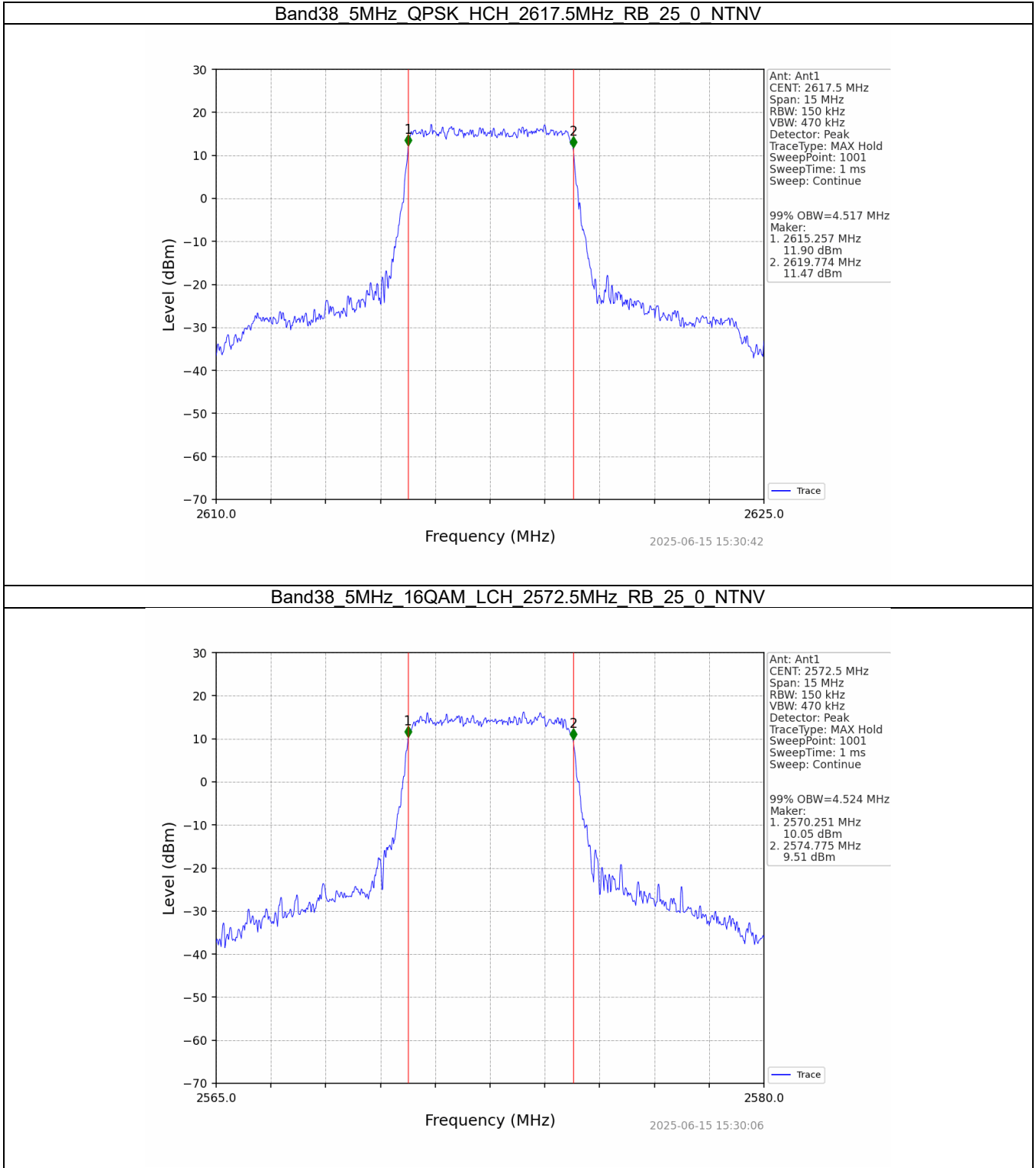
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.074	/	Pass
		2595	25	0	5.062	/	Pass
		2617.5	25	0	5.137	/	Pass
	16QAM	2572.5	25	0	5.139	/	Pass
		2595	25	0	5.120	/	Pass
		2617.5	25	0	5.175	/	Pass
10	QPSK	2575	50	0	9.791	/	Pass
		2595	50	0	9.797	/	Pass
		2615	50	0	9.831	/	Pass
	16QAM	2575	27	0	9.139	/	Pass
		2595	27	0	9.240	/	Pass
		2615	27	23	9.498	/	Pass
15	QPSK	2577.5	75	0	17.107	/	Pass
		2595	75	0	16.939	/	Pass
		2612.5	75	0	16.674	/	Pass

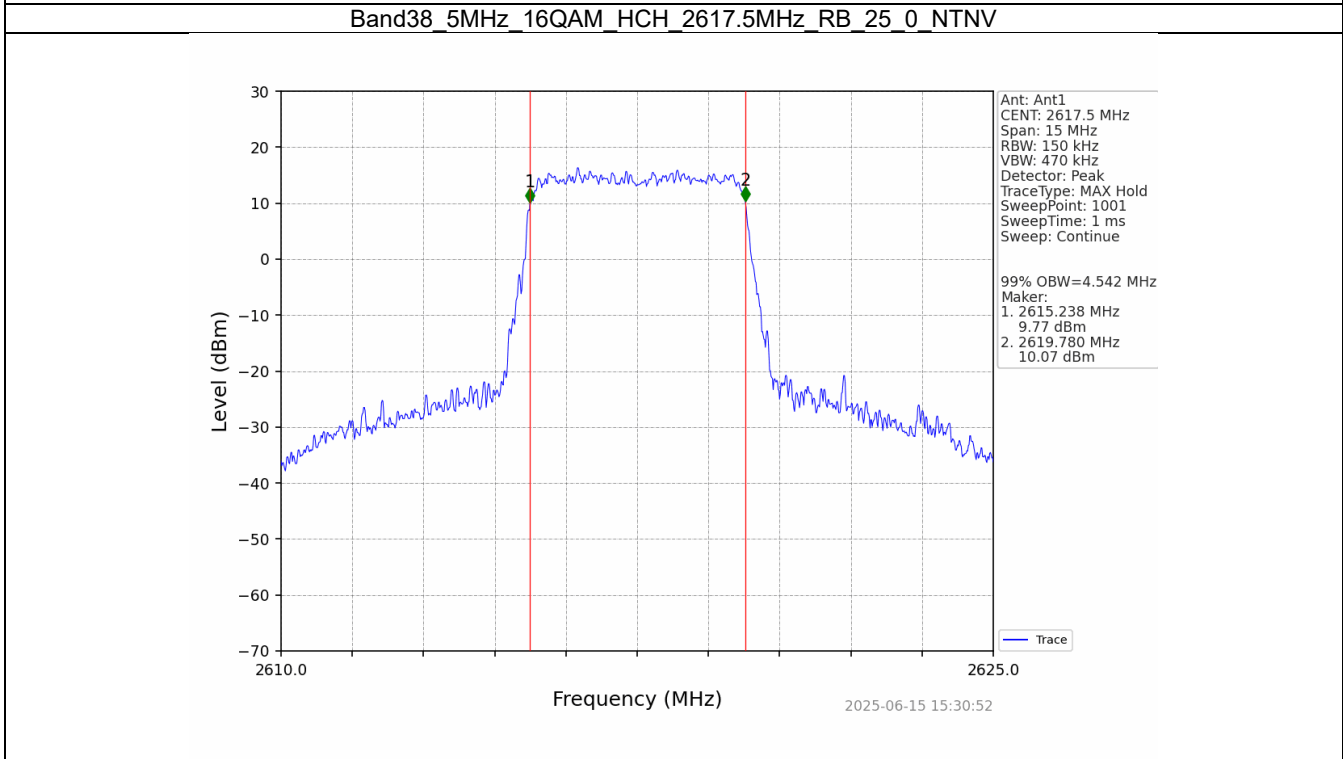
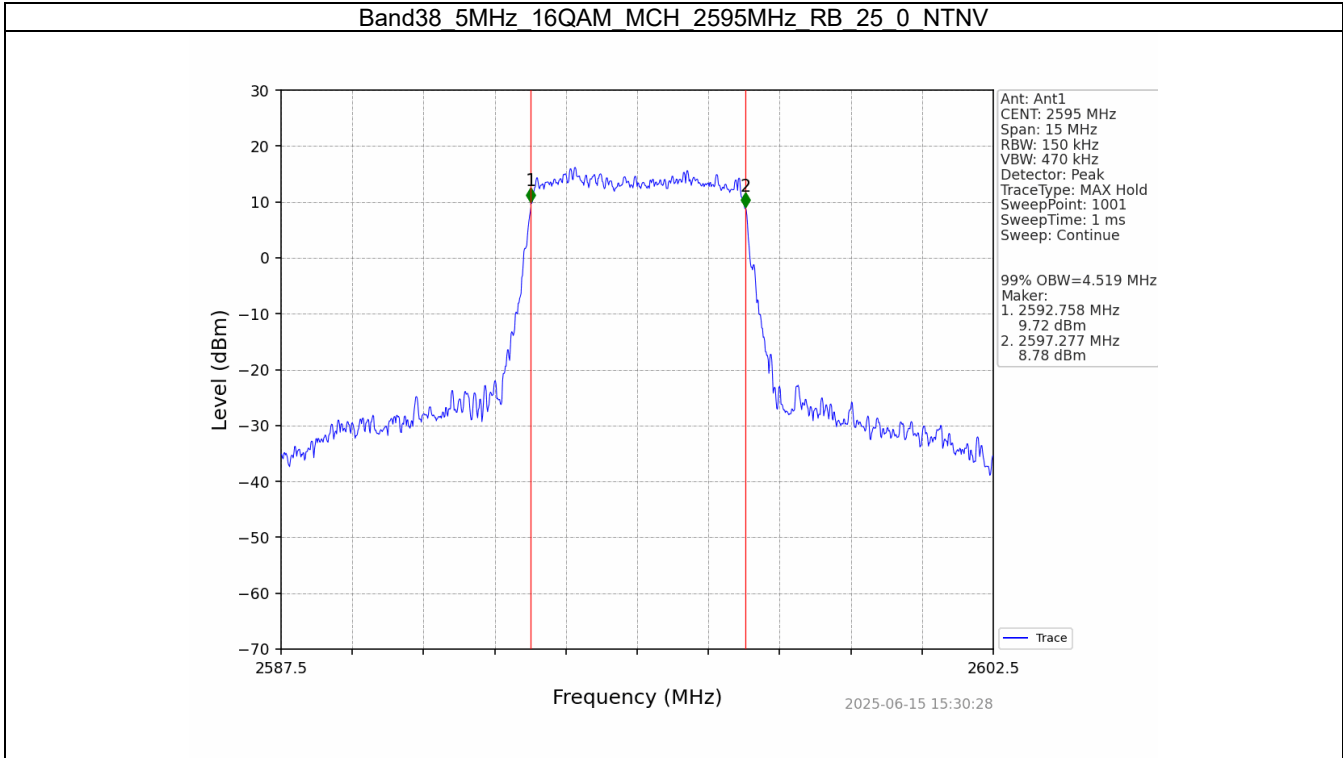
20	16QAM	2577.5	27	0	10.133	/	Pass
		2595	27	0	9.452	/	Pass
		2612.5	27	48	15.539	/	Pass
	QPSK	2580	100	0	21.493	/	Pass
		2595	100	0	21.543	/	Pass
		2610	100	0	21.507	/	Pass
	16QAM	2580	27	0	14.475	/	Pass
		2595	27	0	11.496	/	Pass
		2610	27	73	20.442	/	Pass

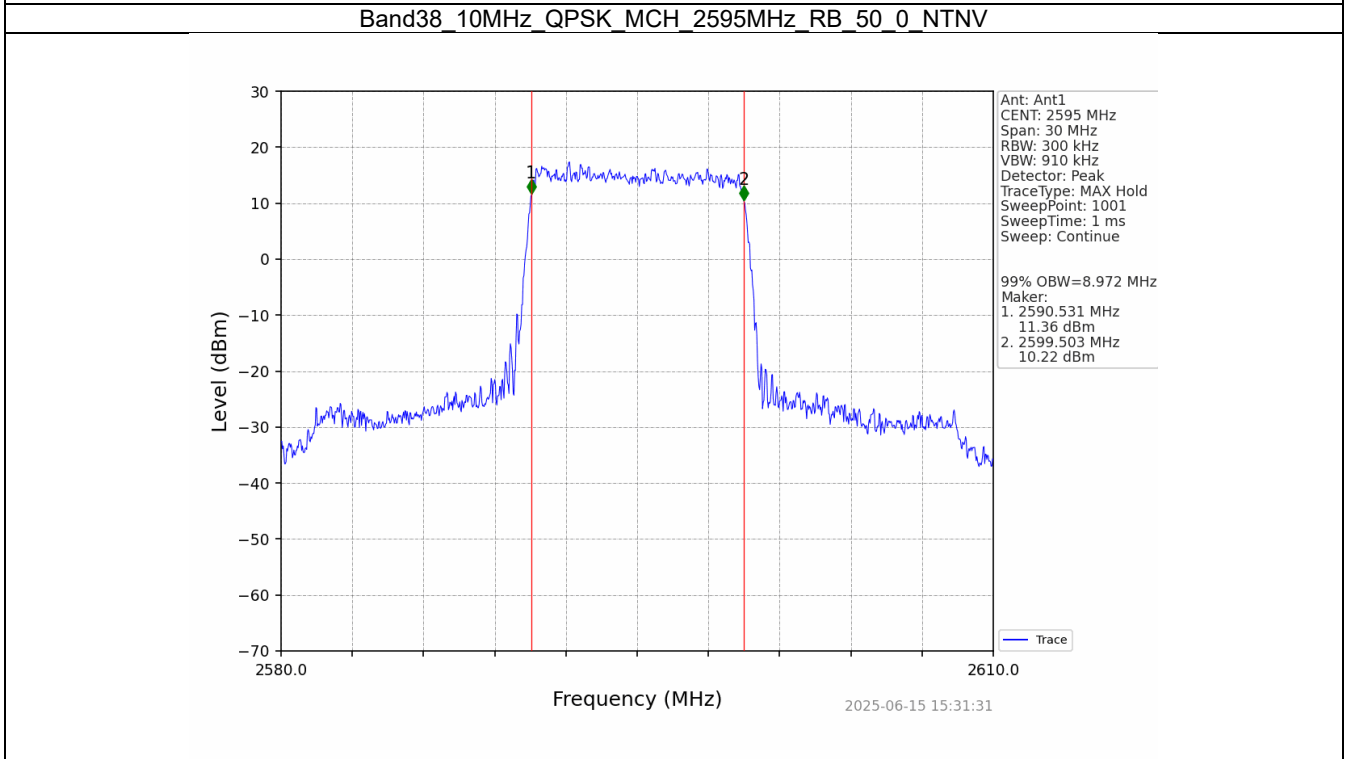
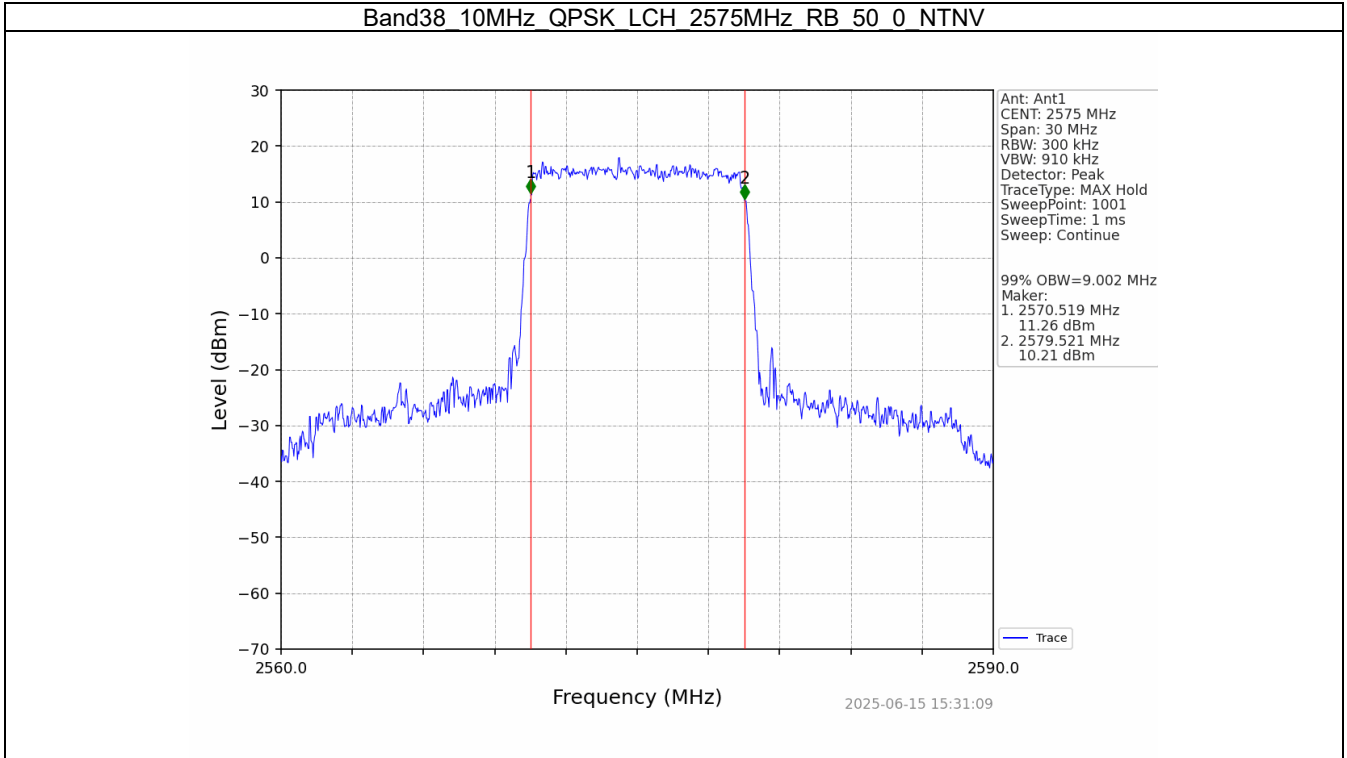
4.2 Test Graph

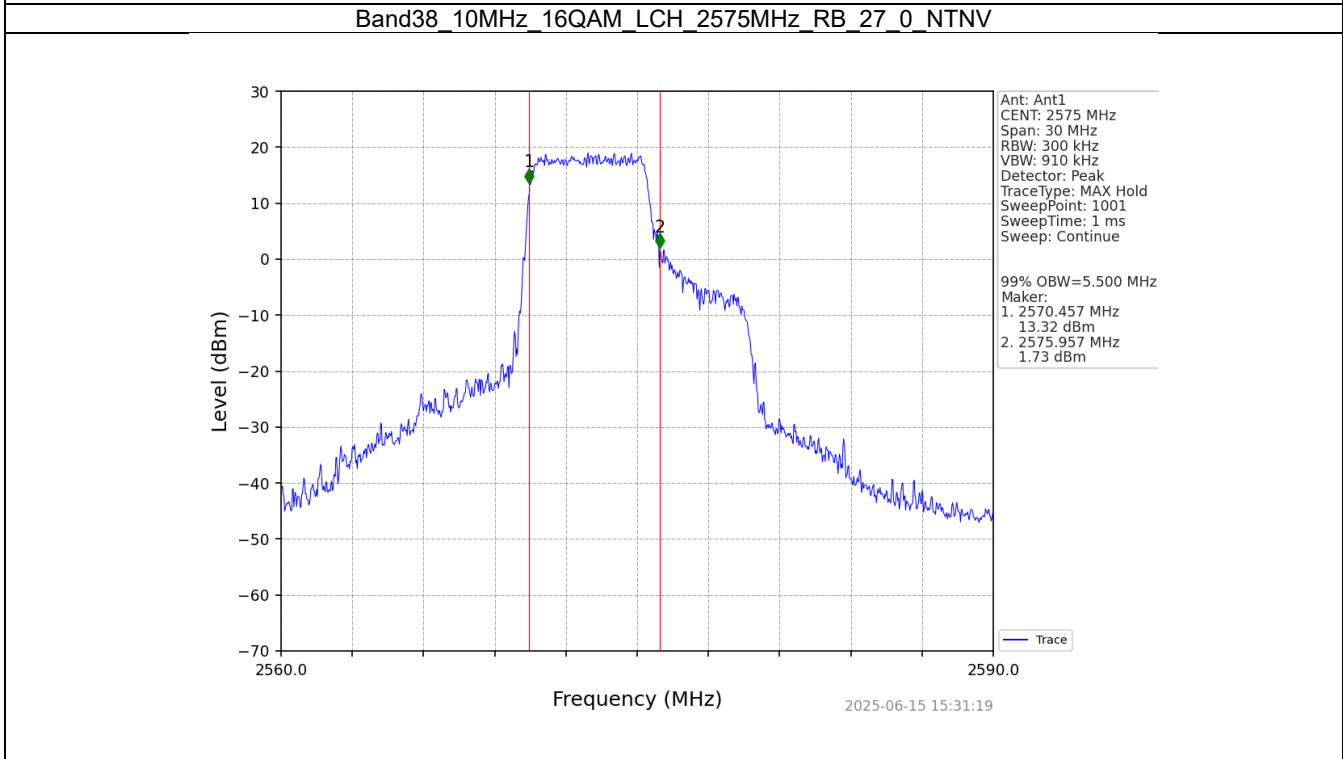
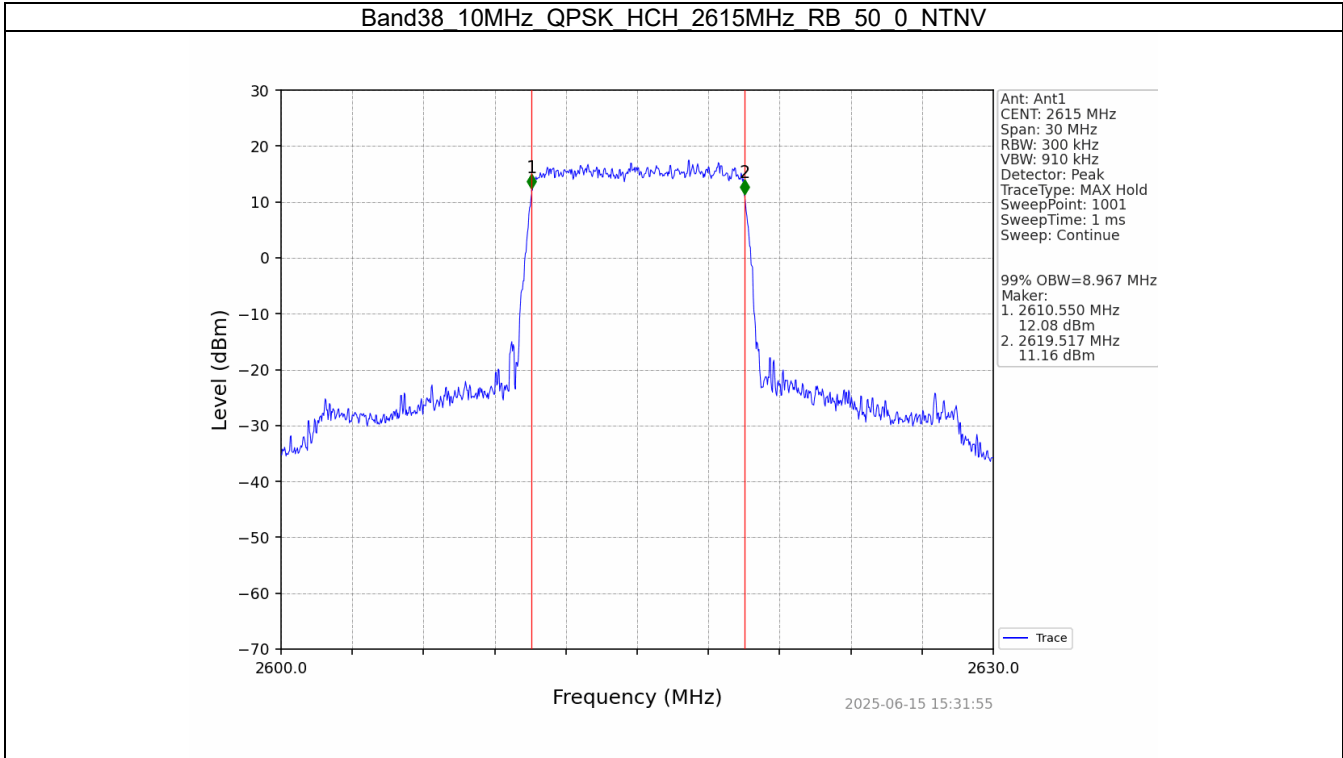
4.2.1 Band38_OBW

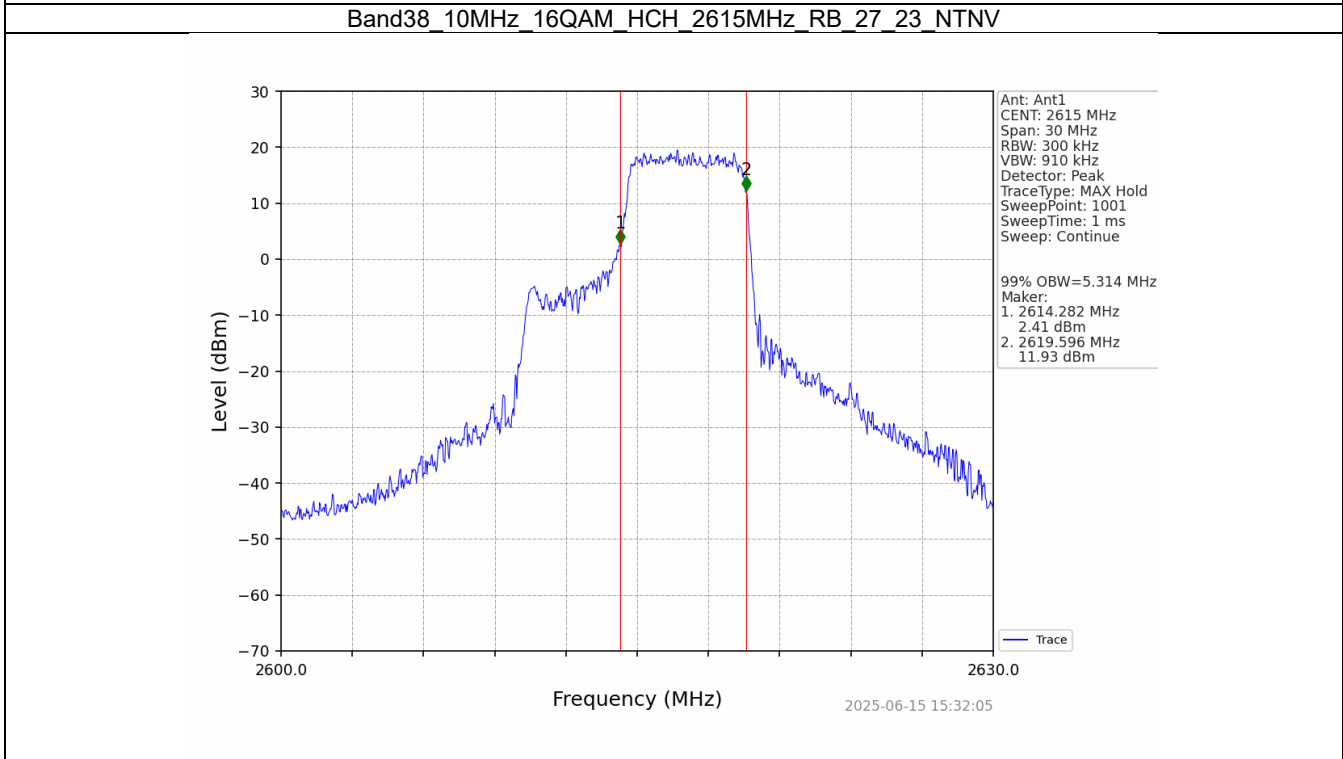
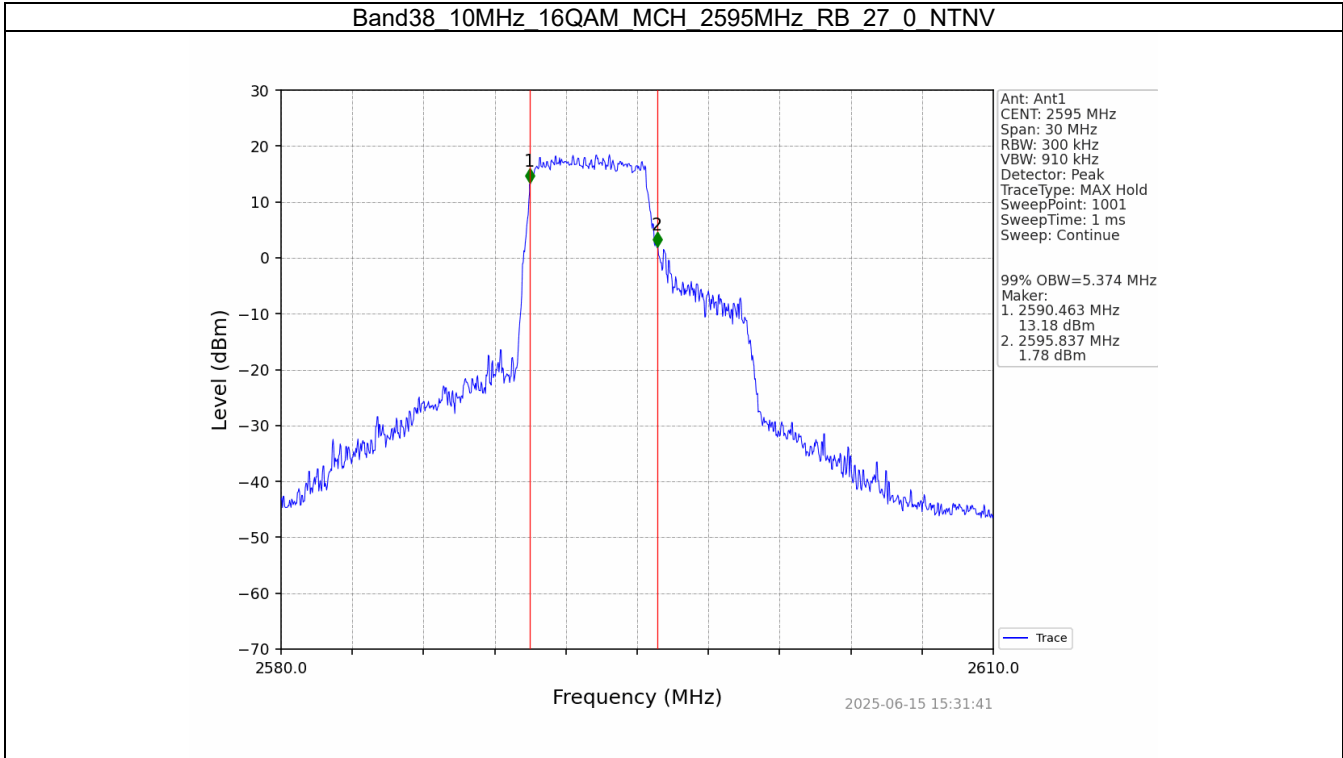


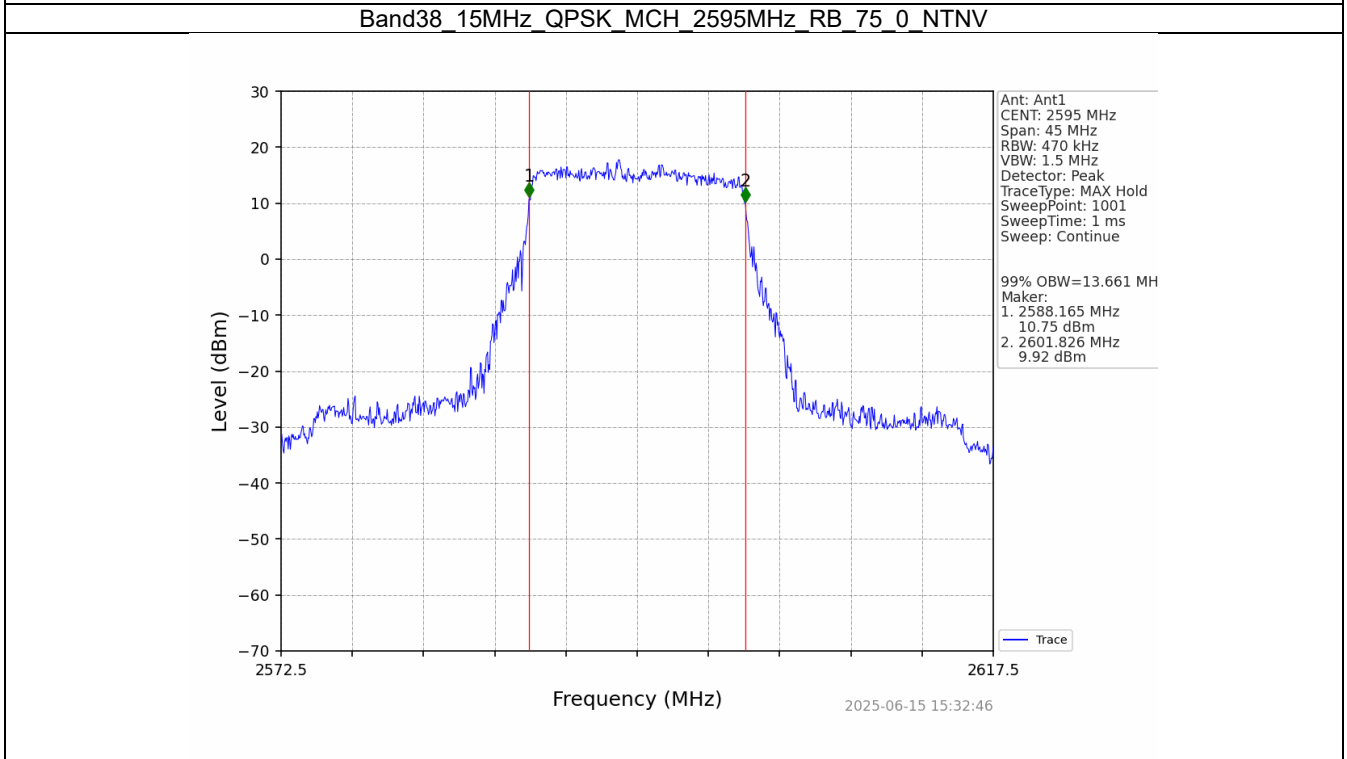
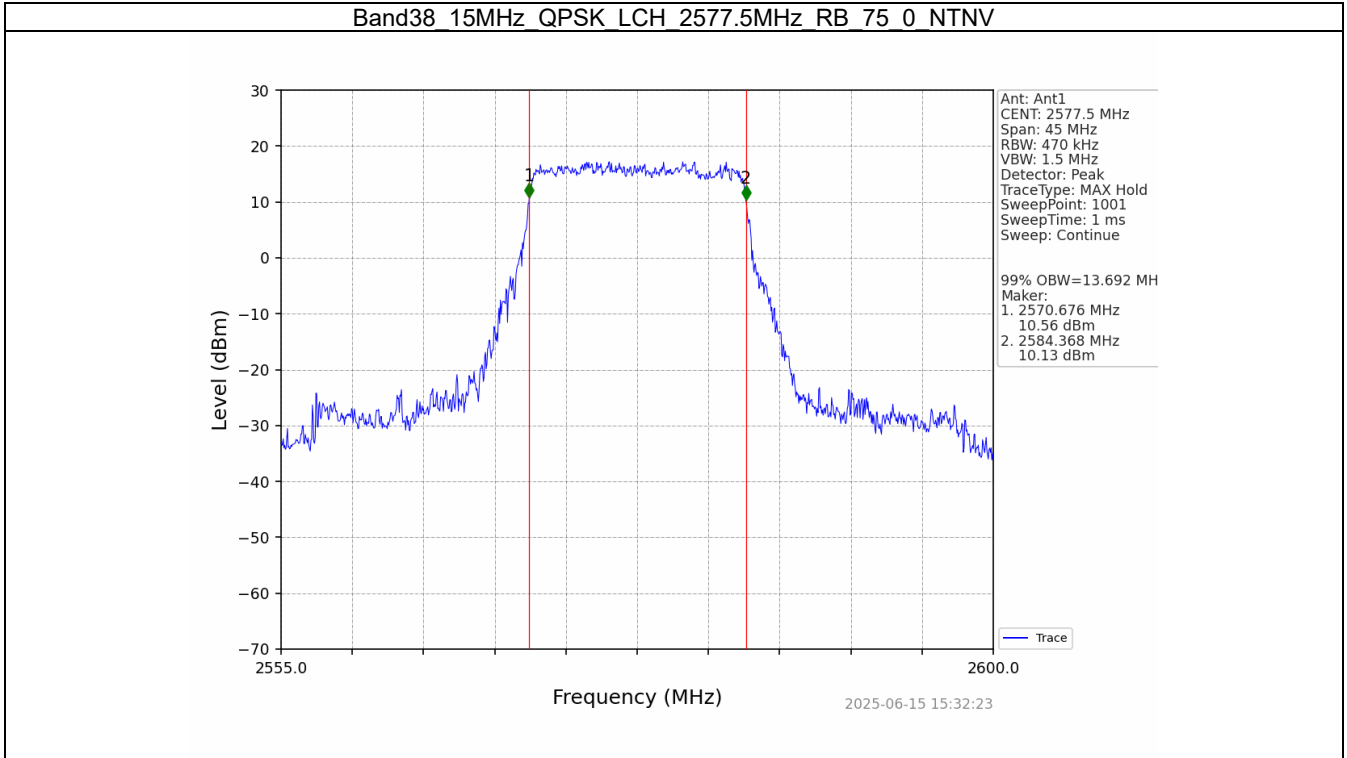


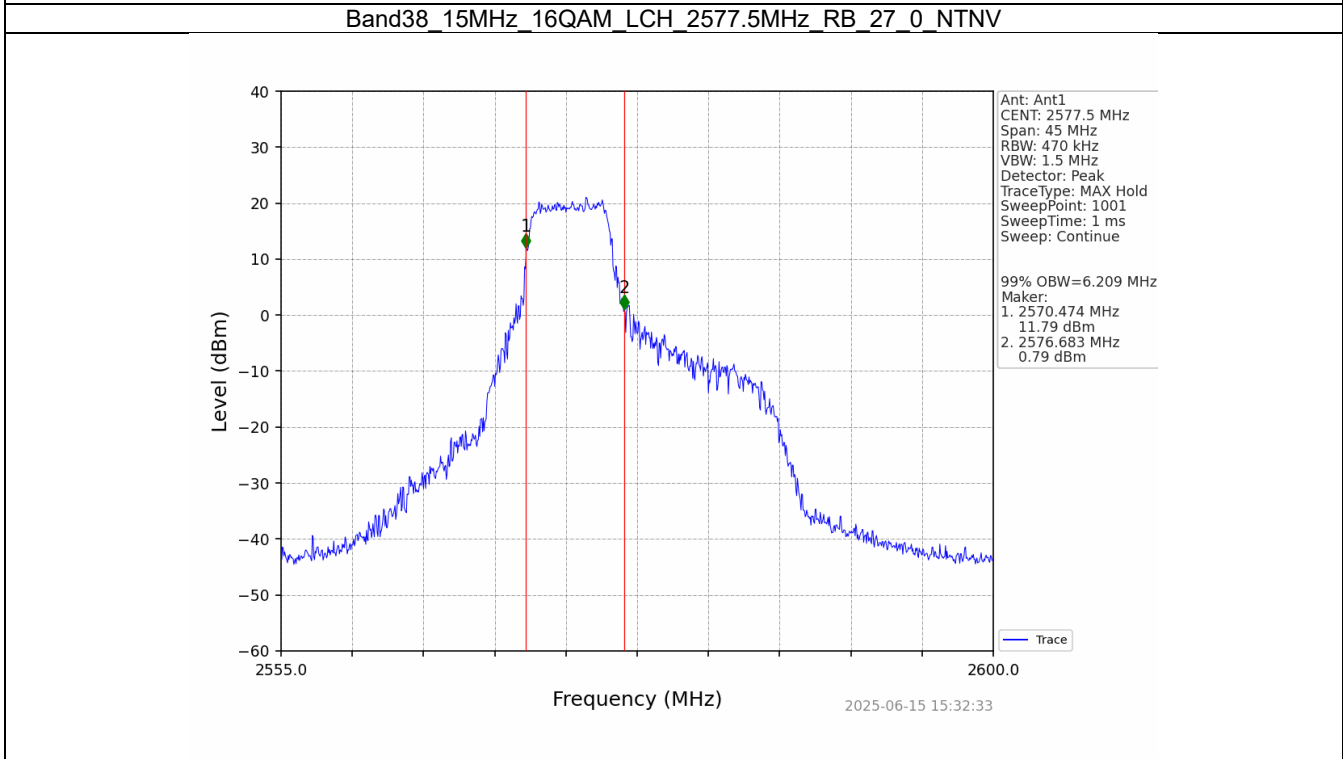
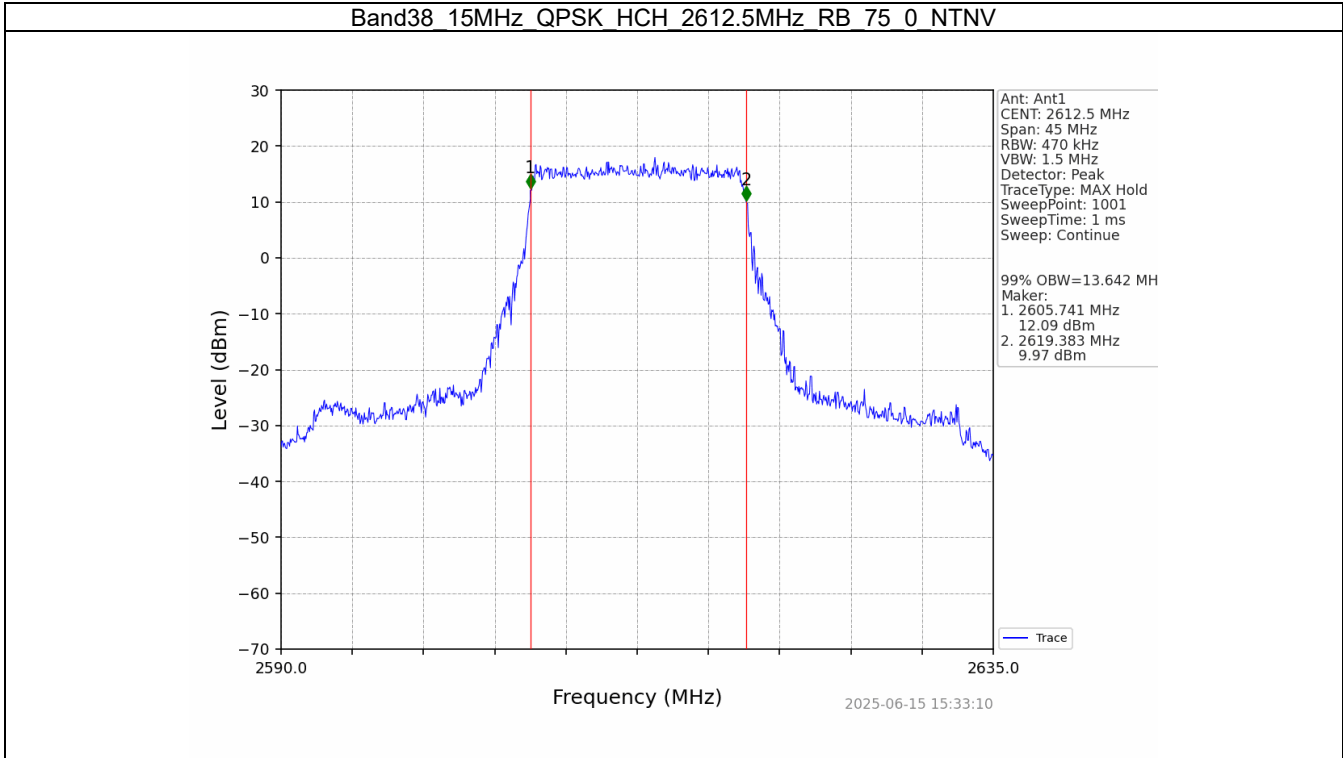


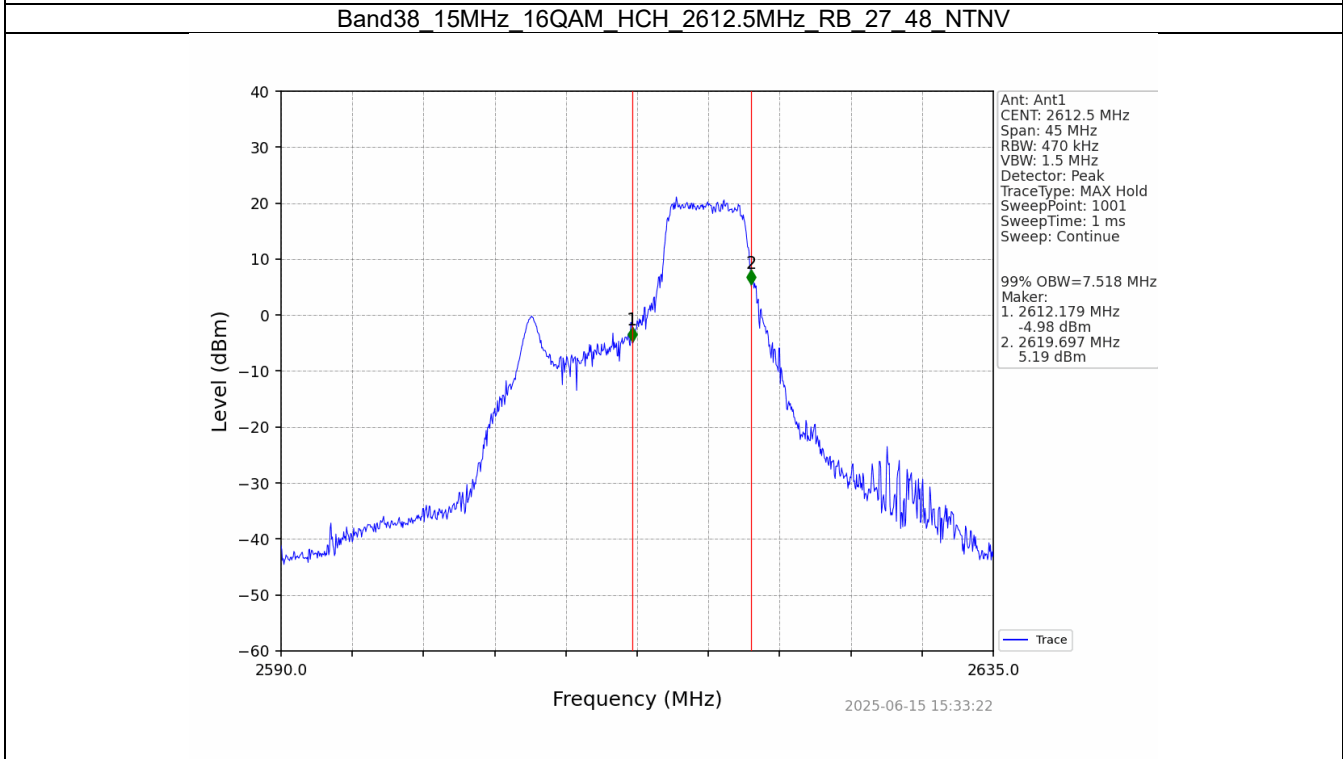
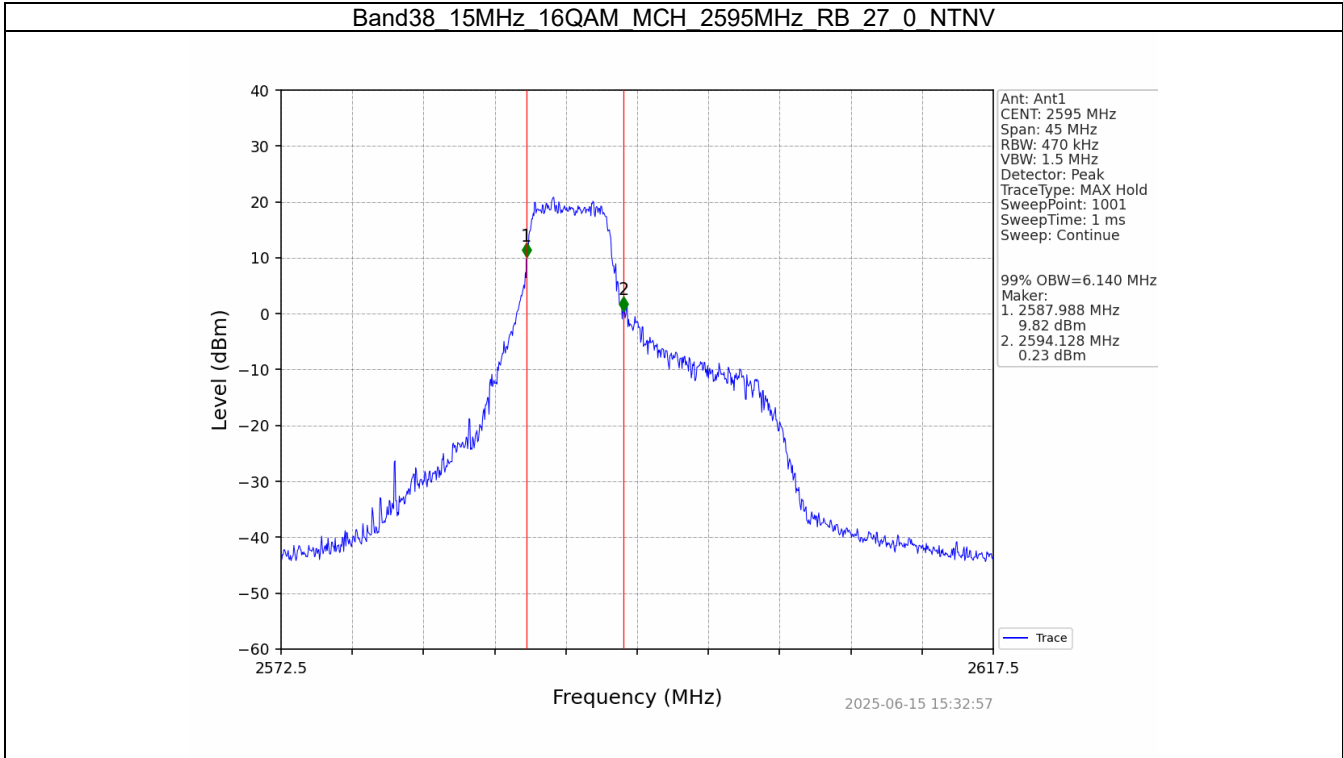


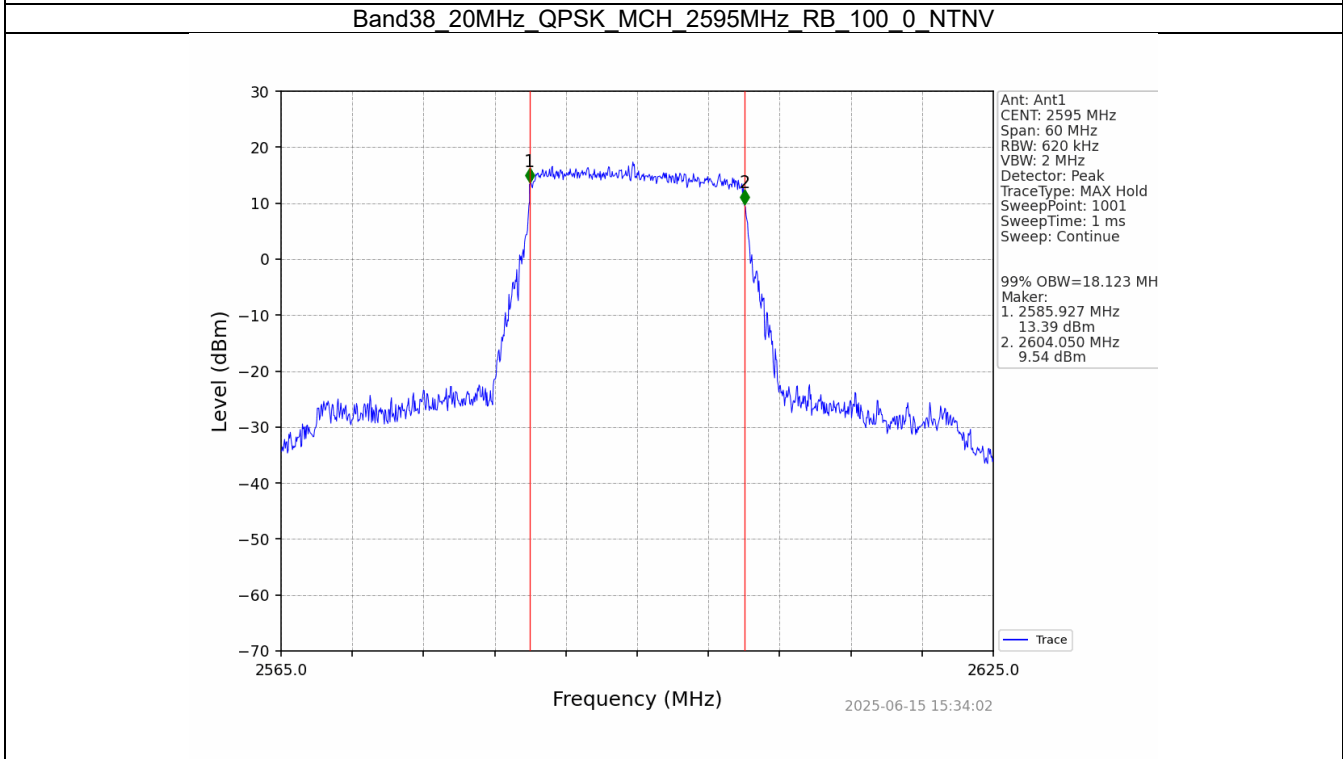
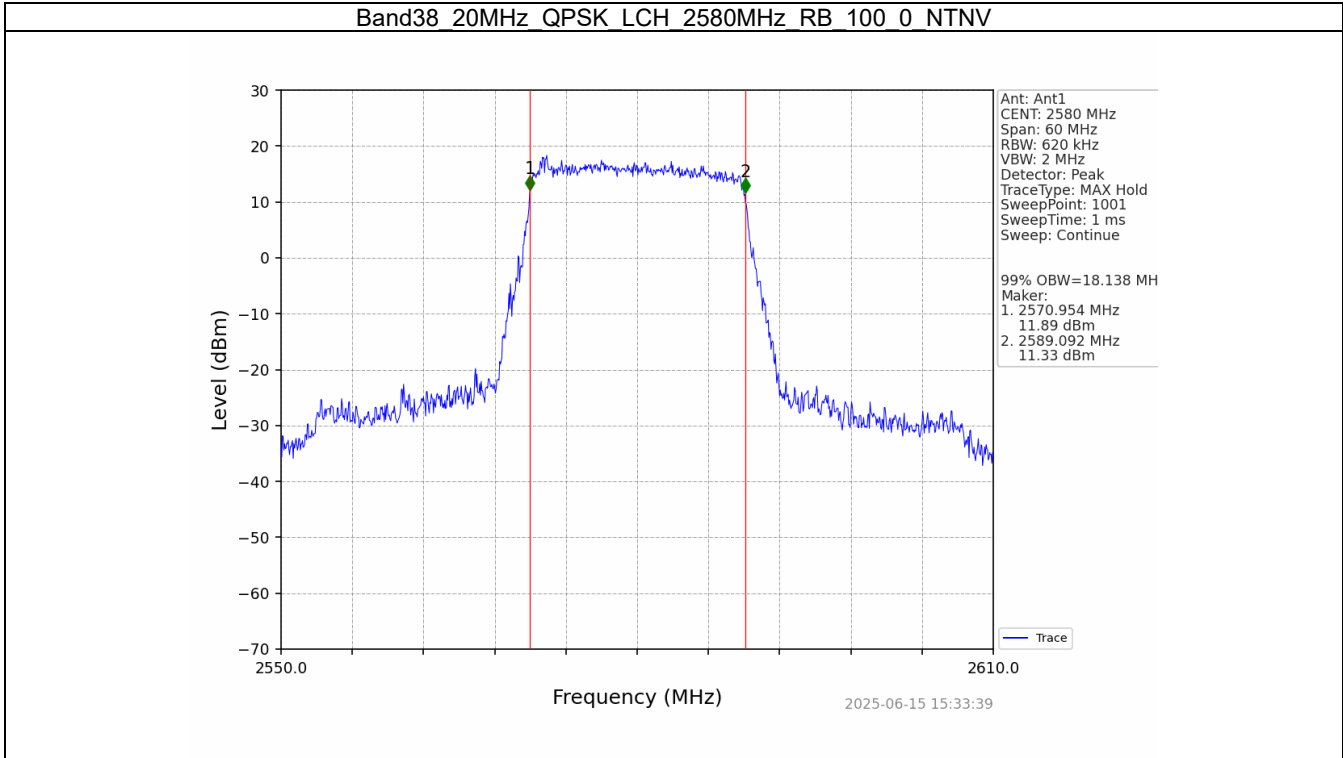


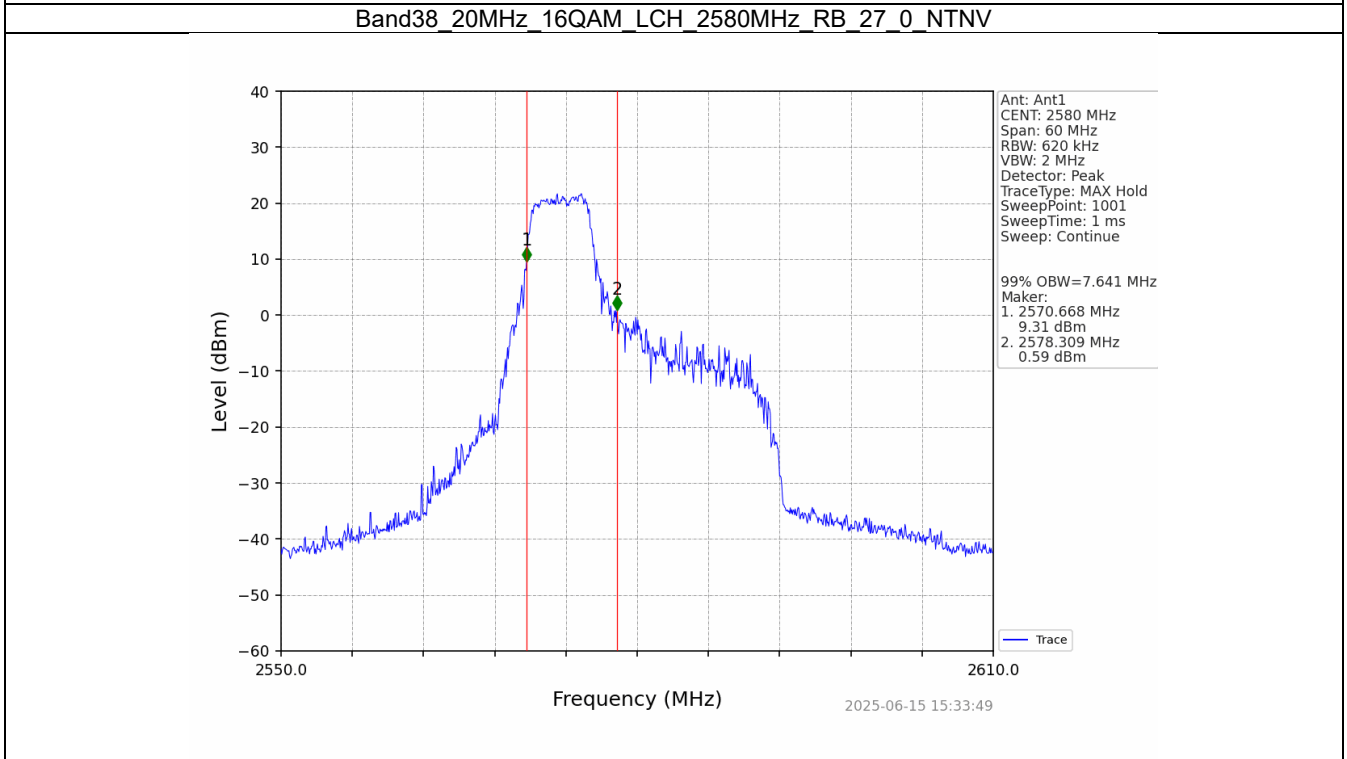
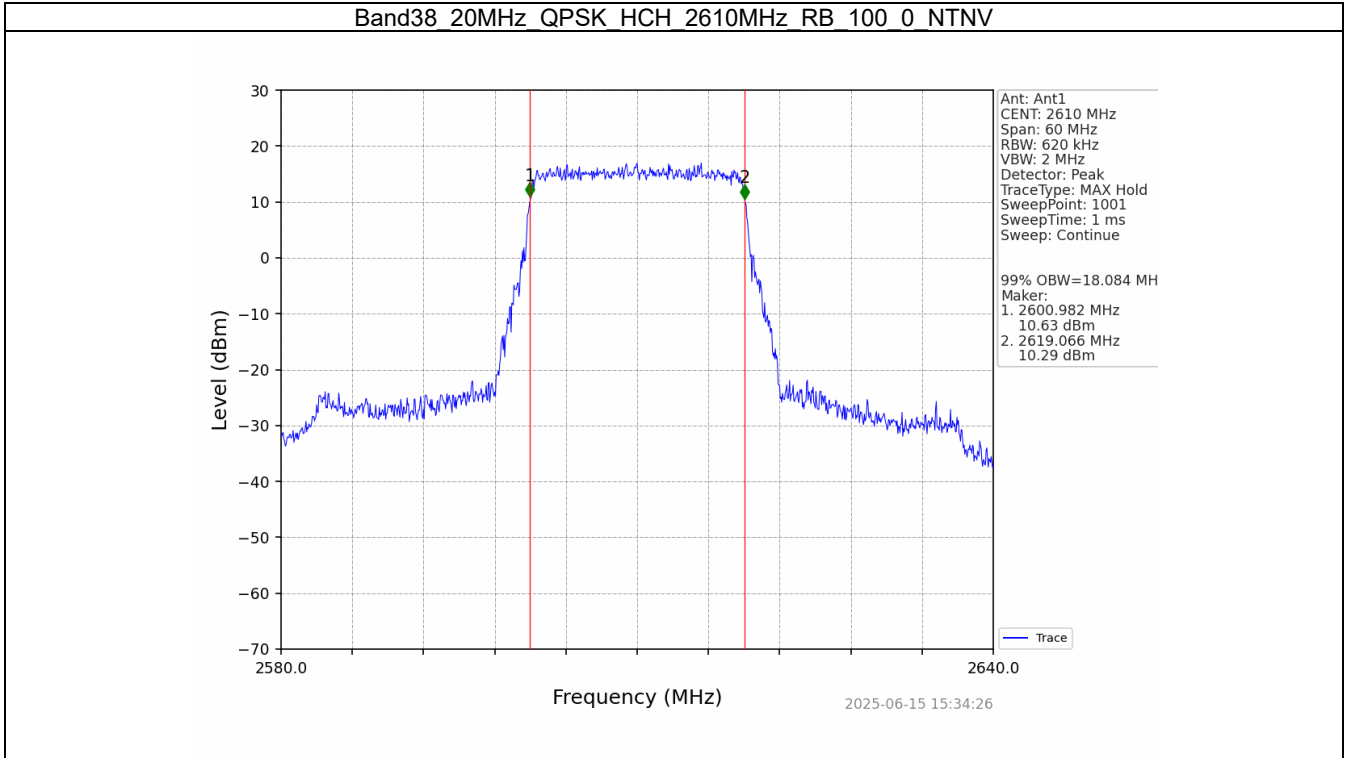


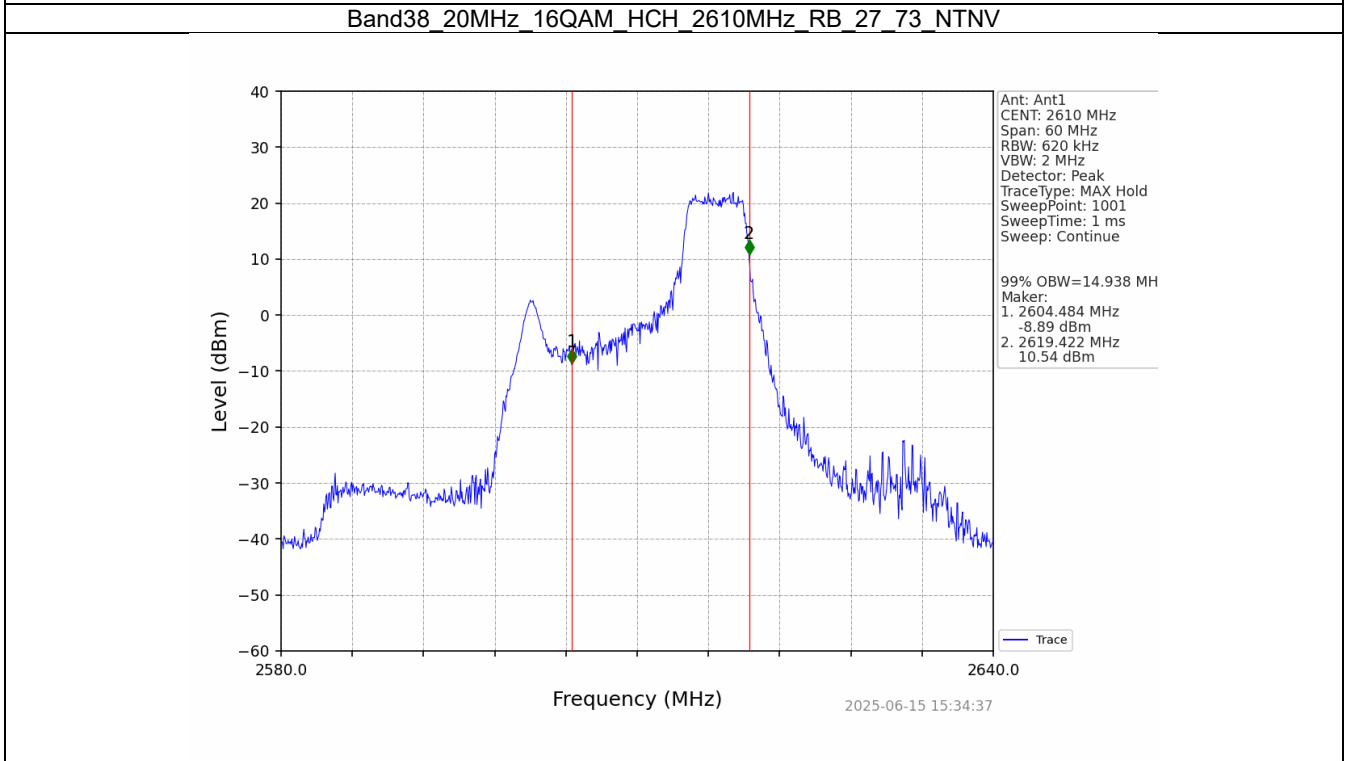
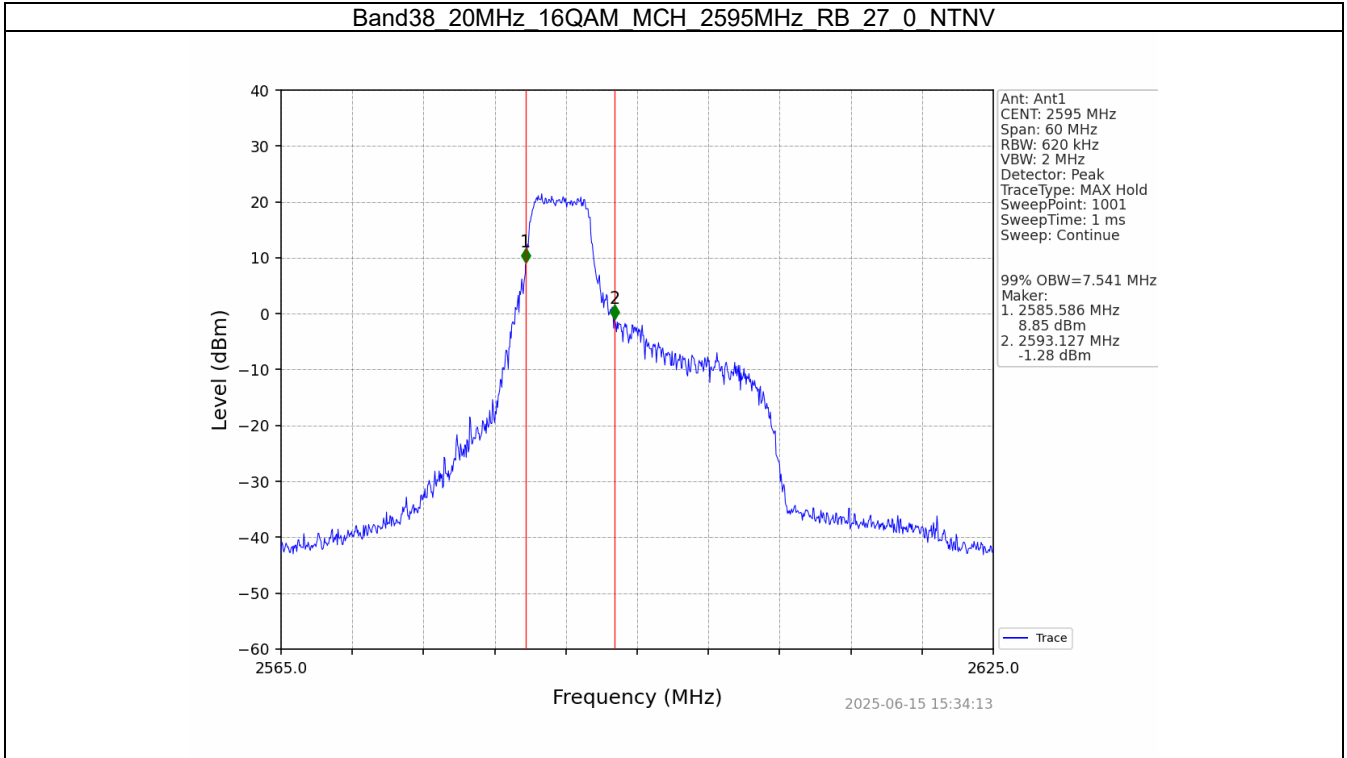




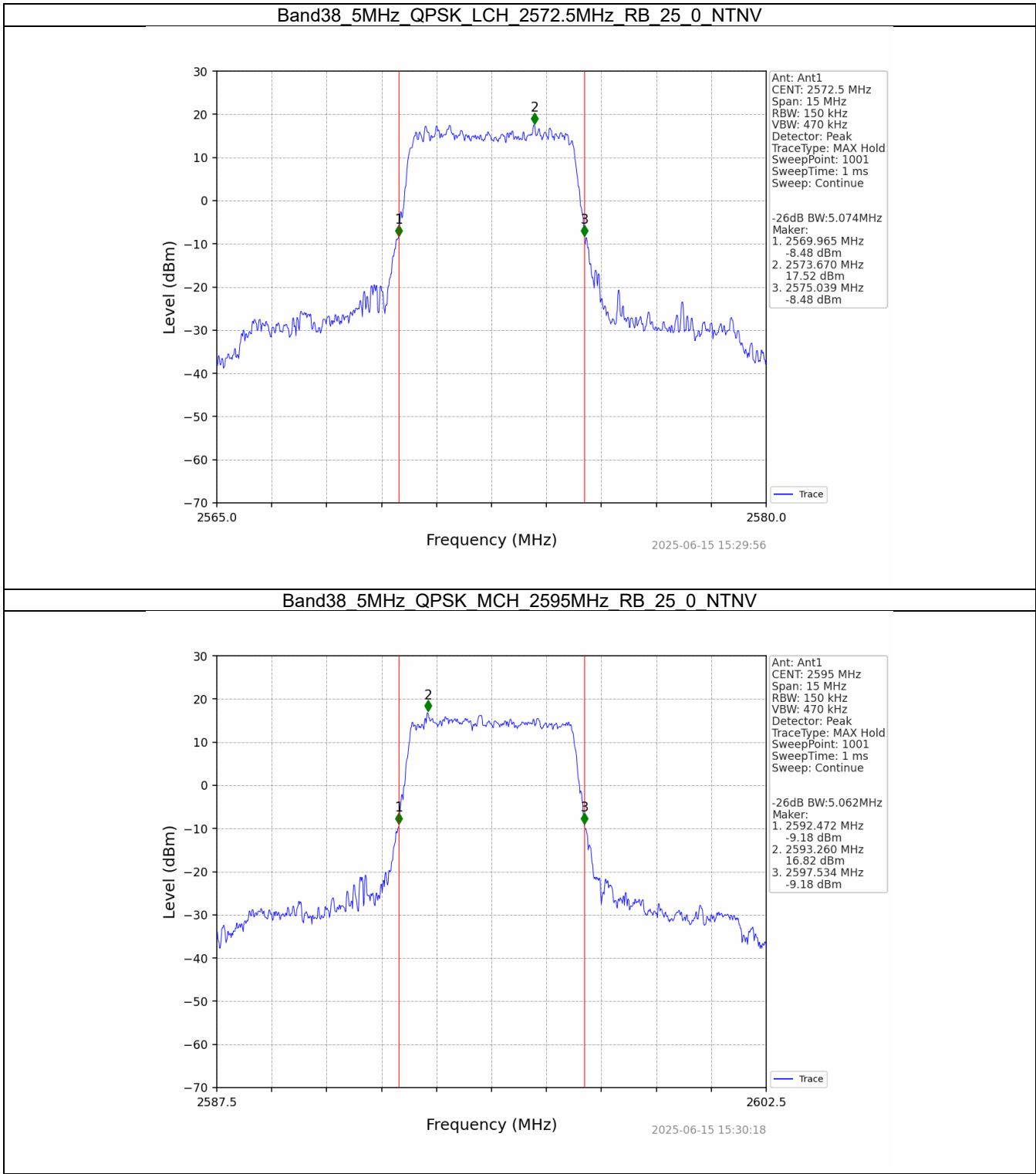


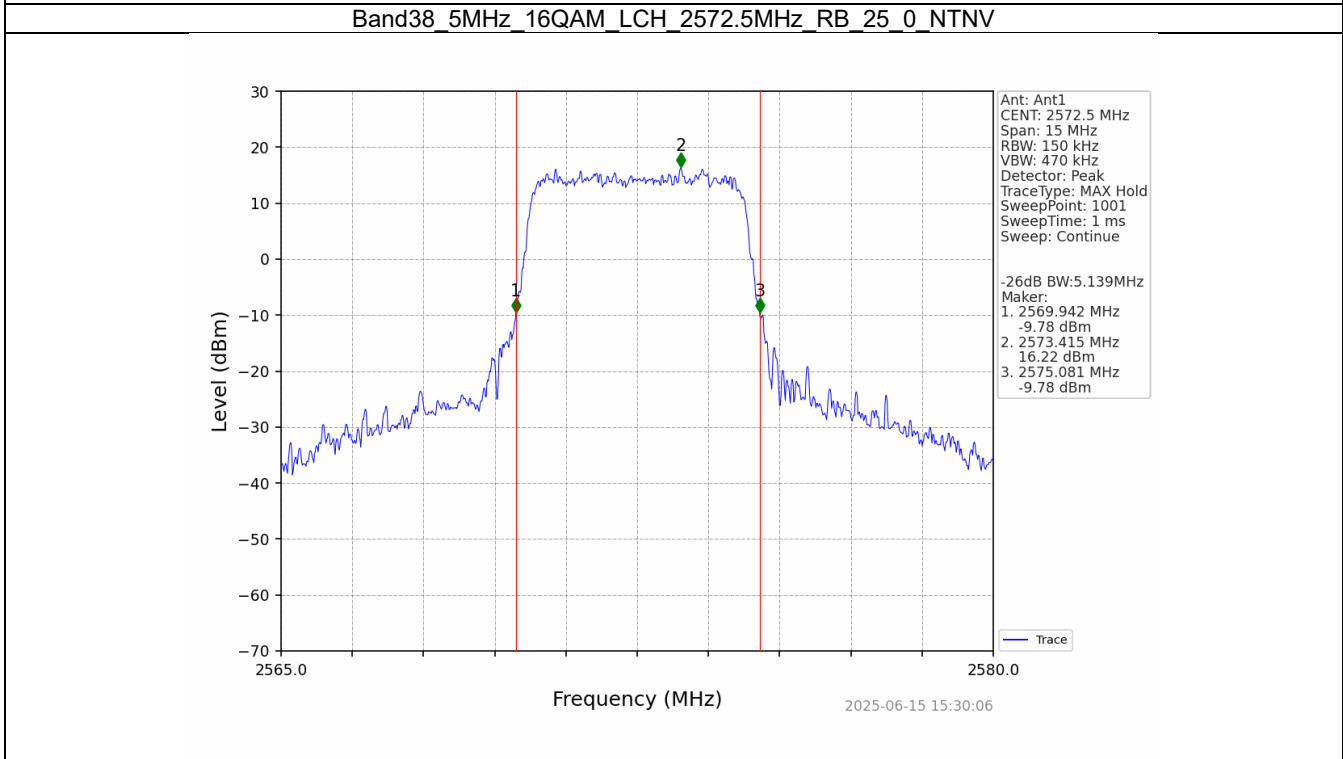
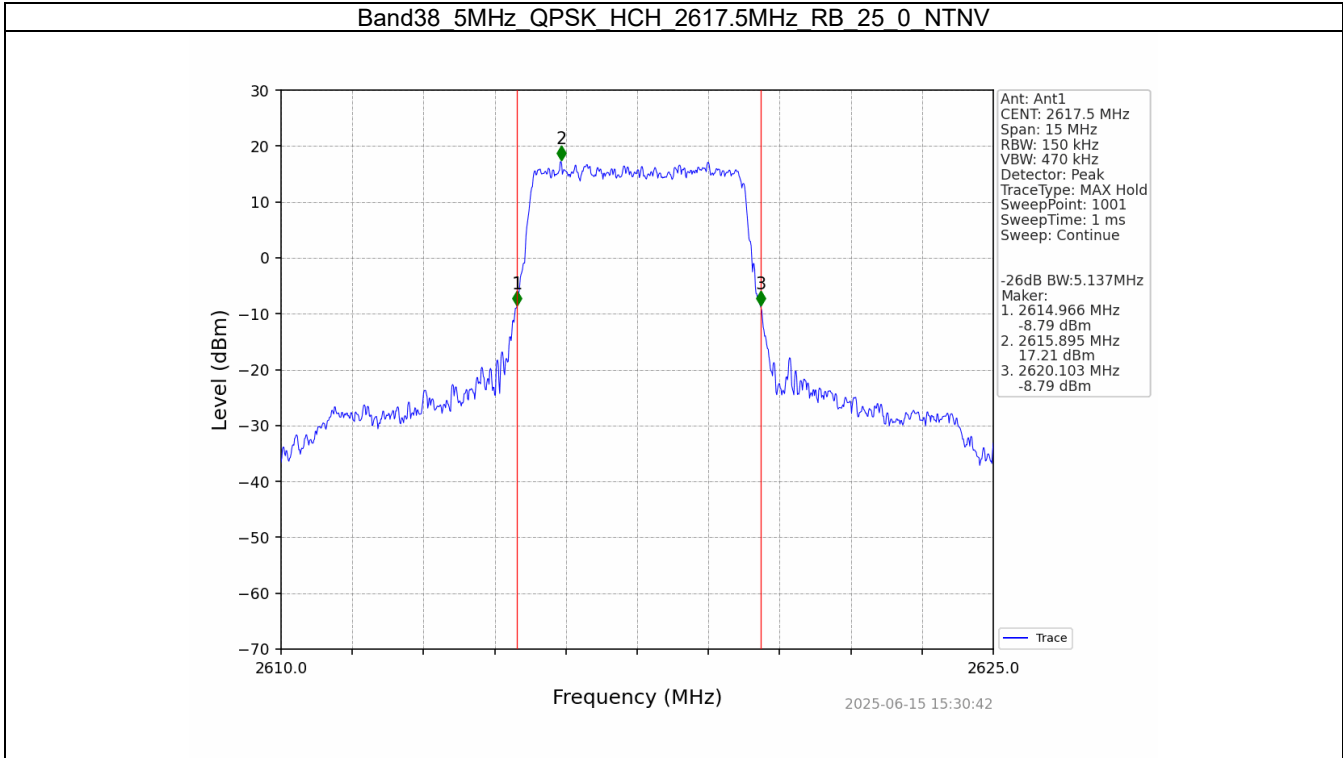


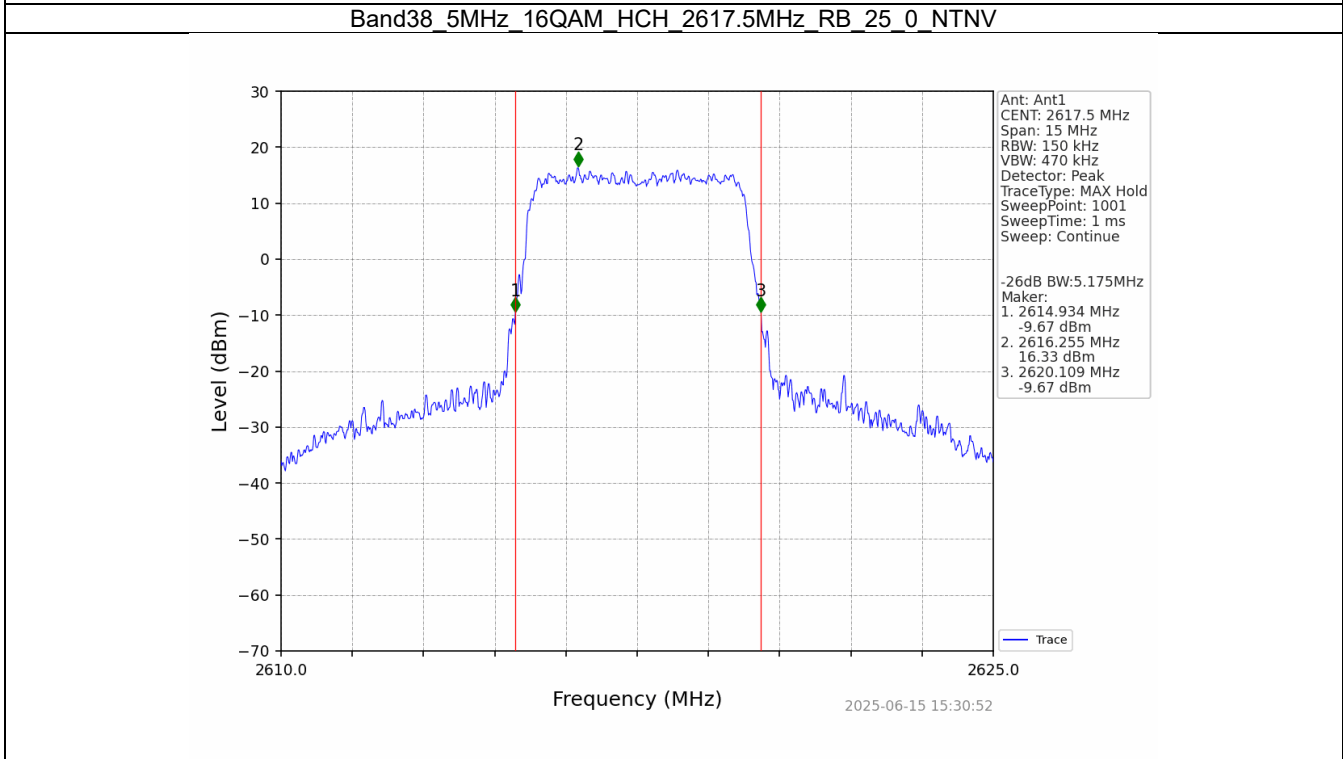
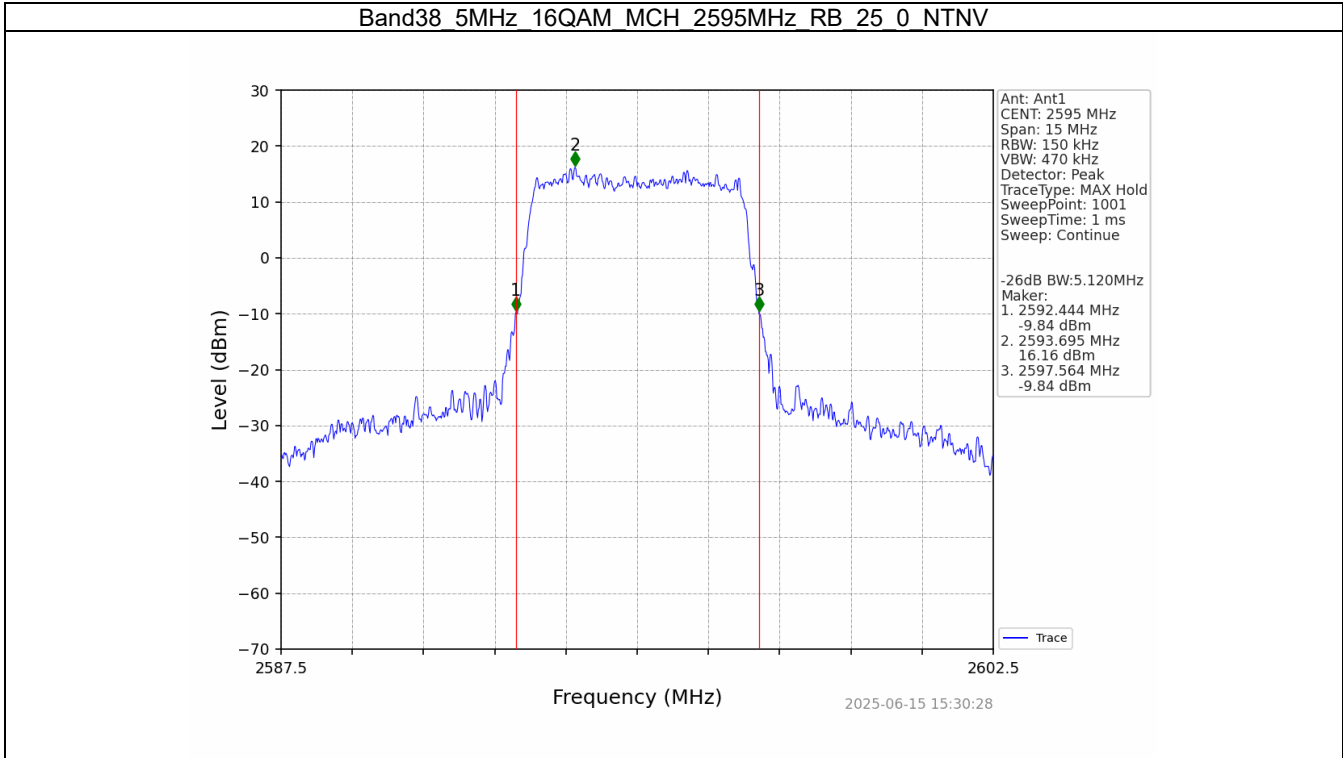


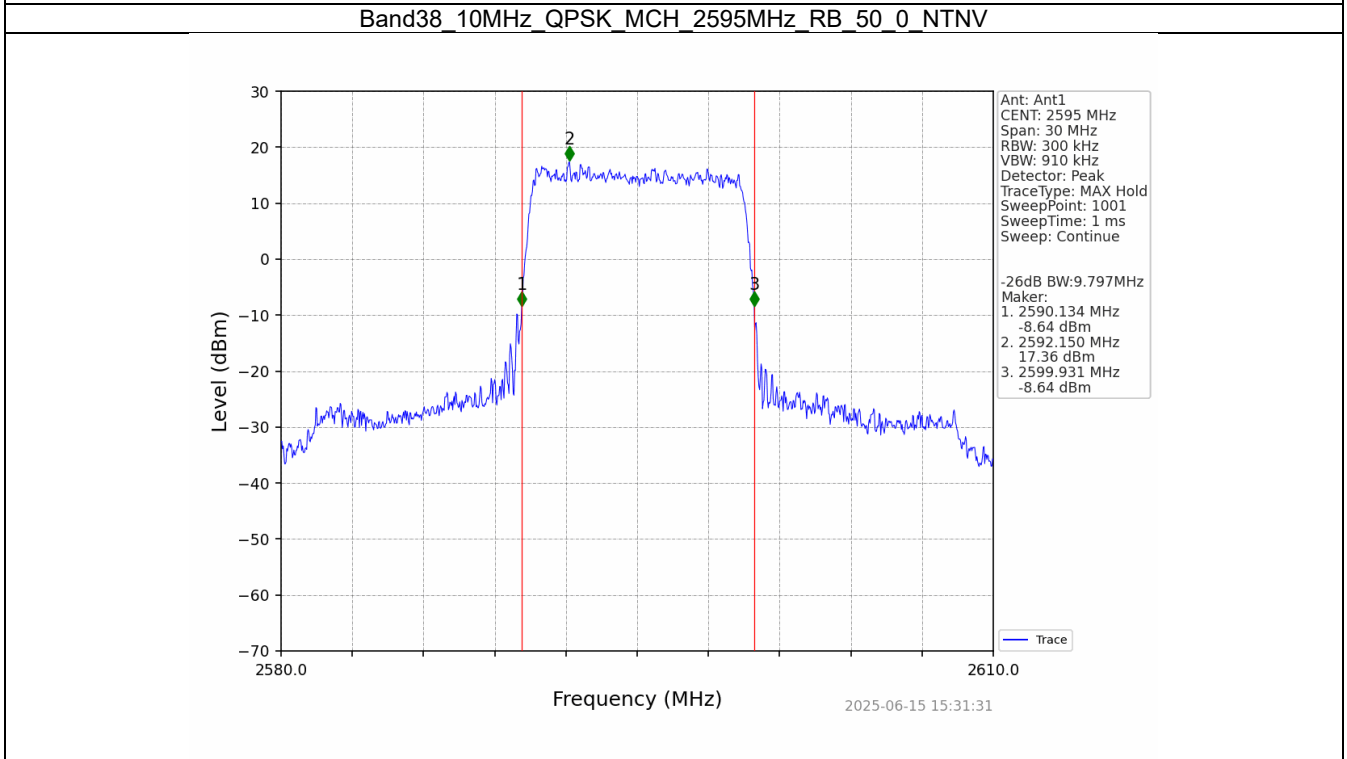
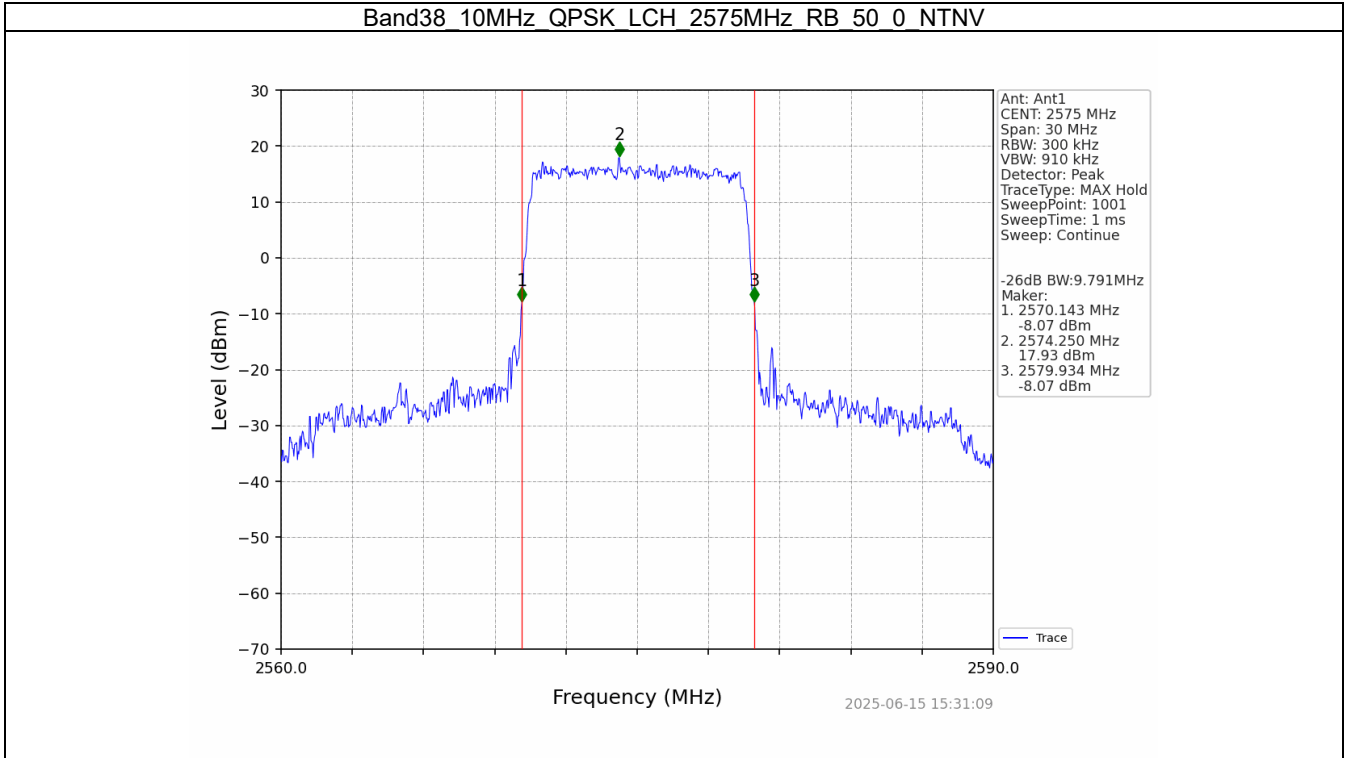


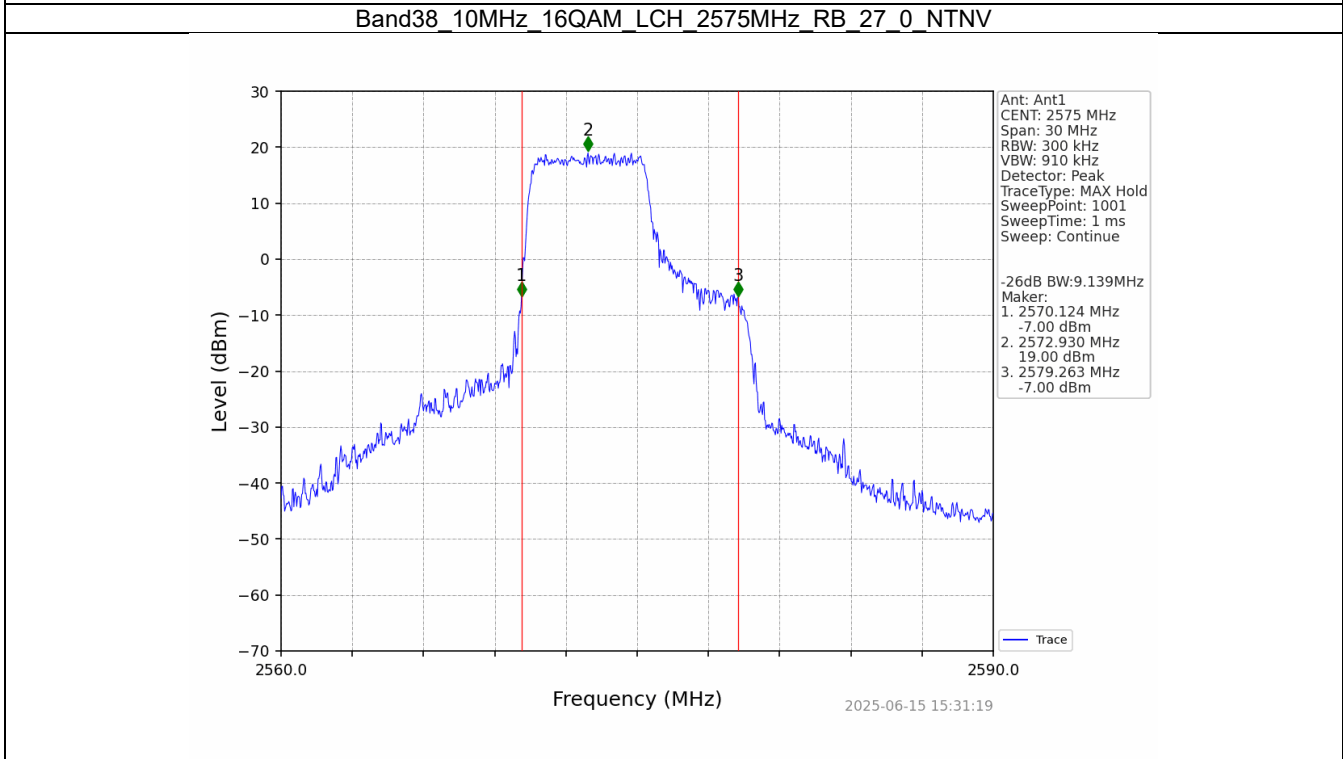
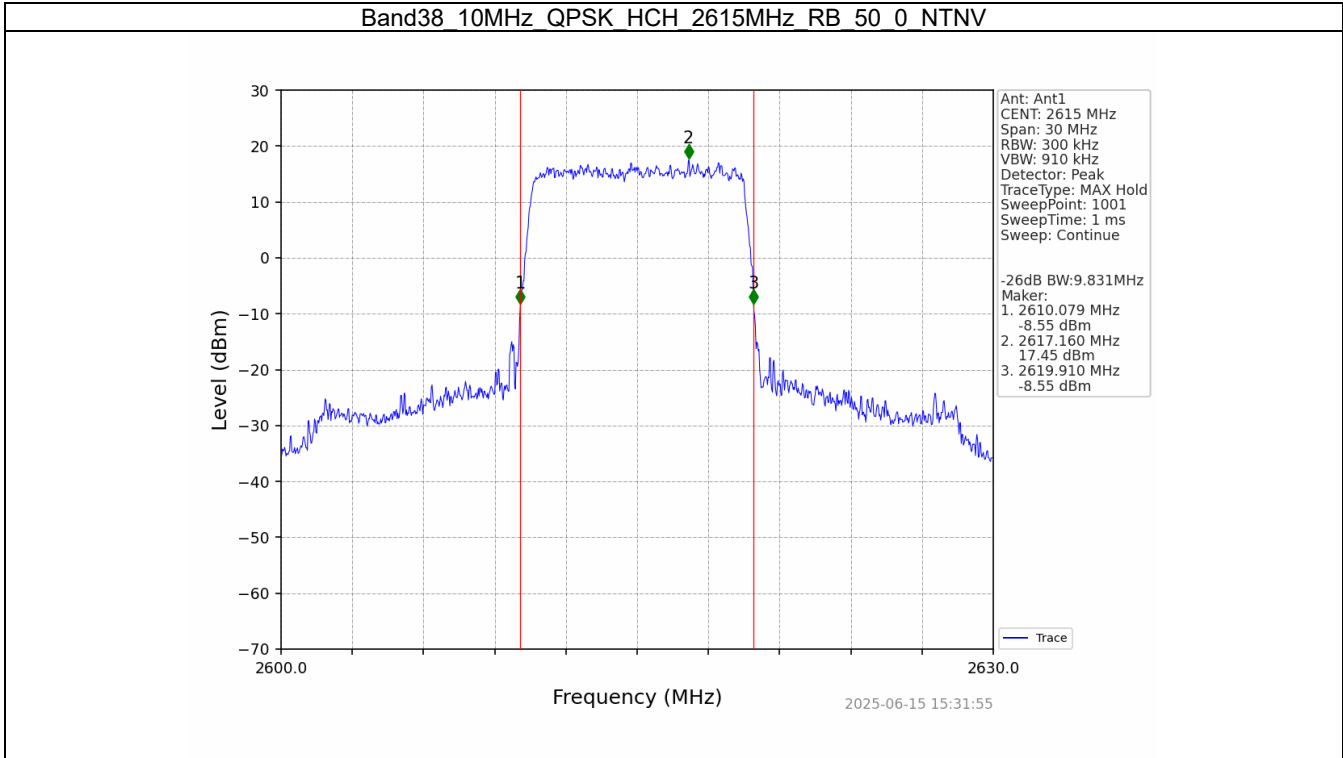
4.2.2 Band38_XDB

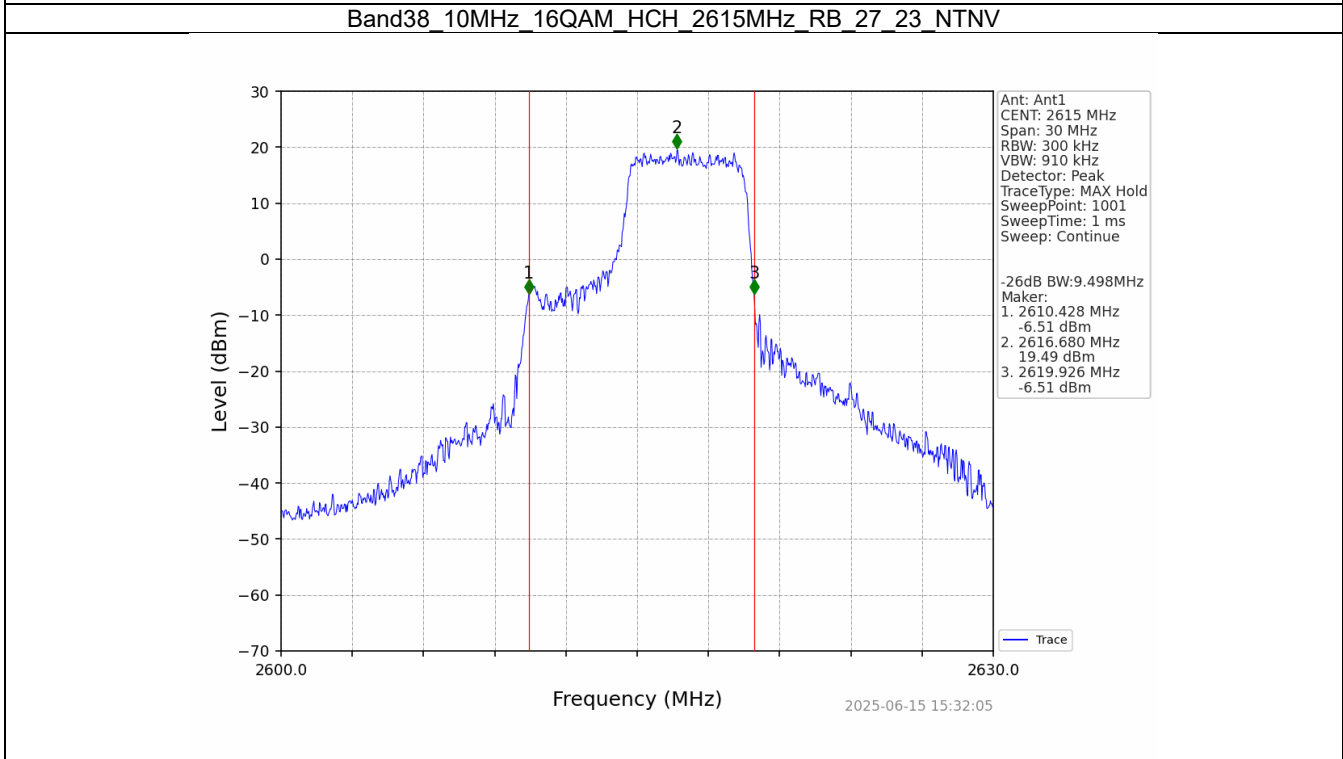
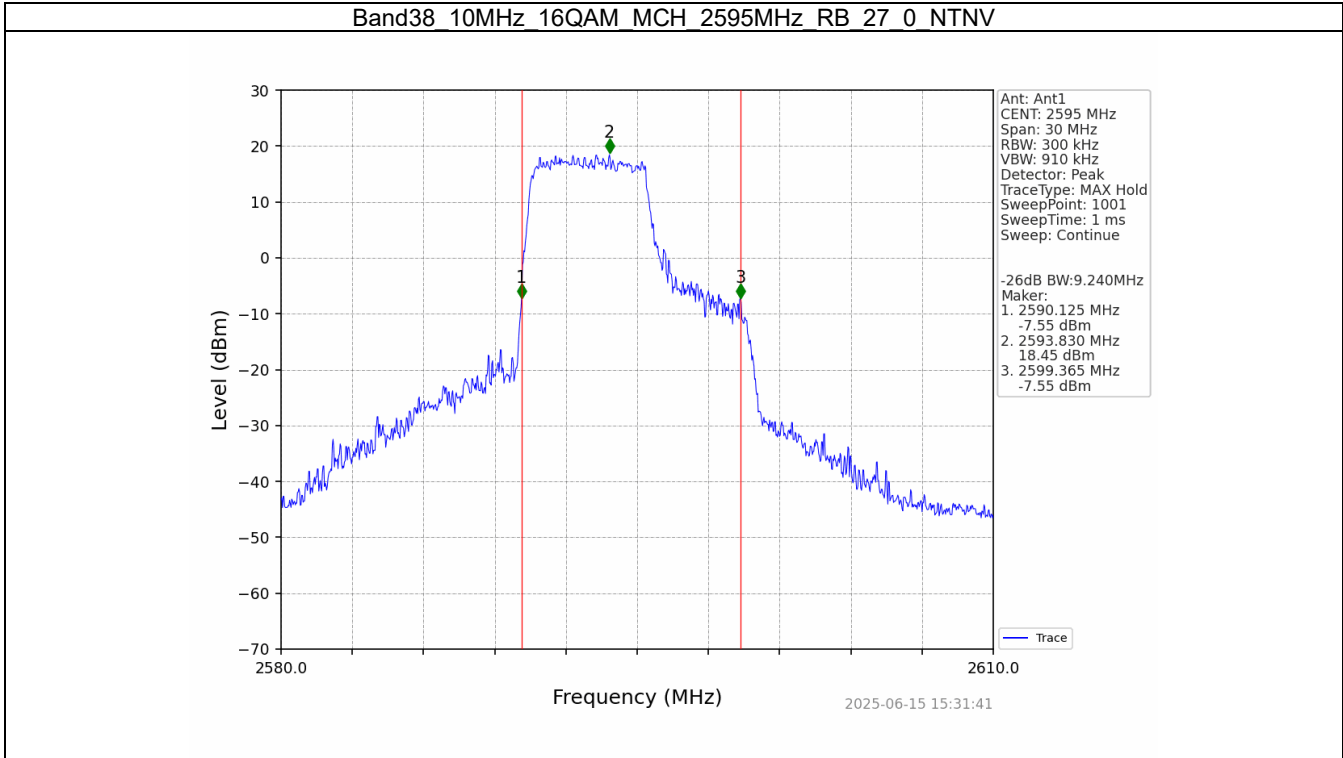


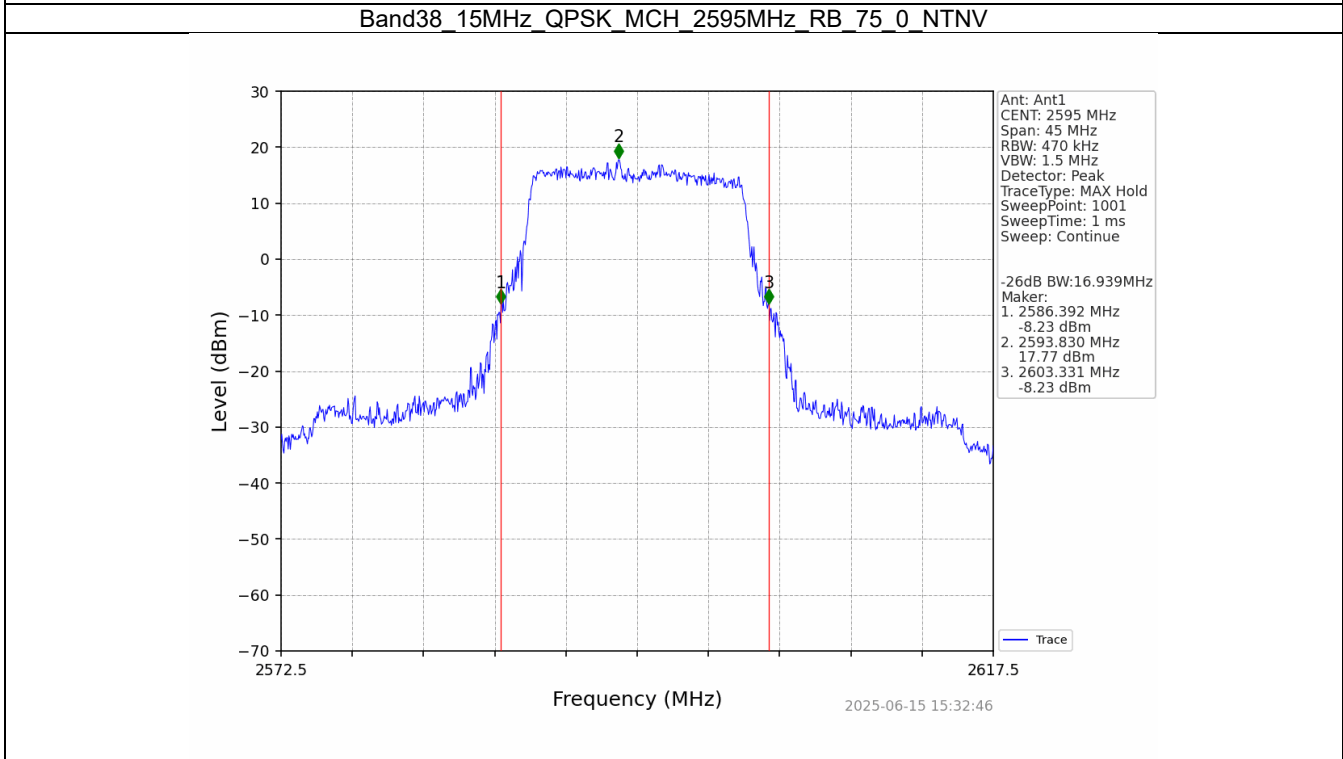
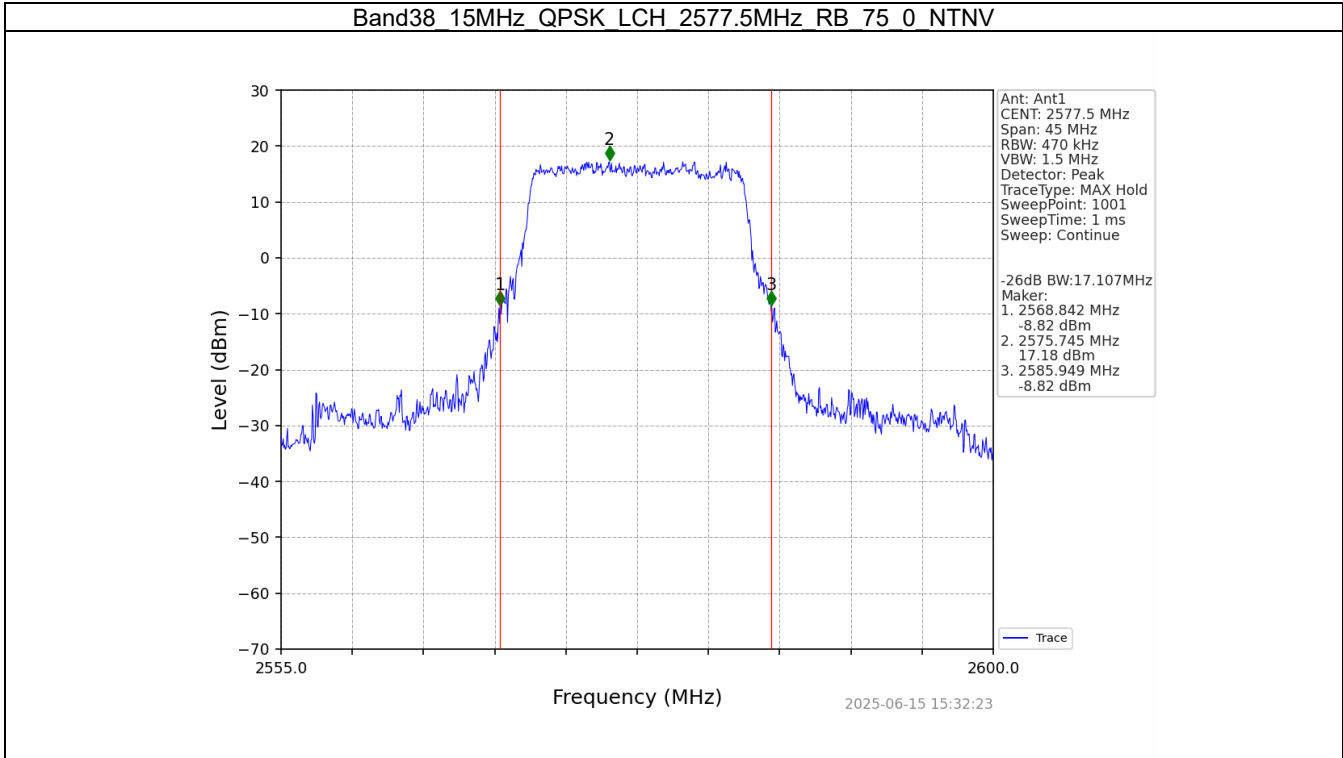


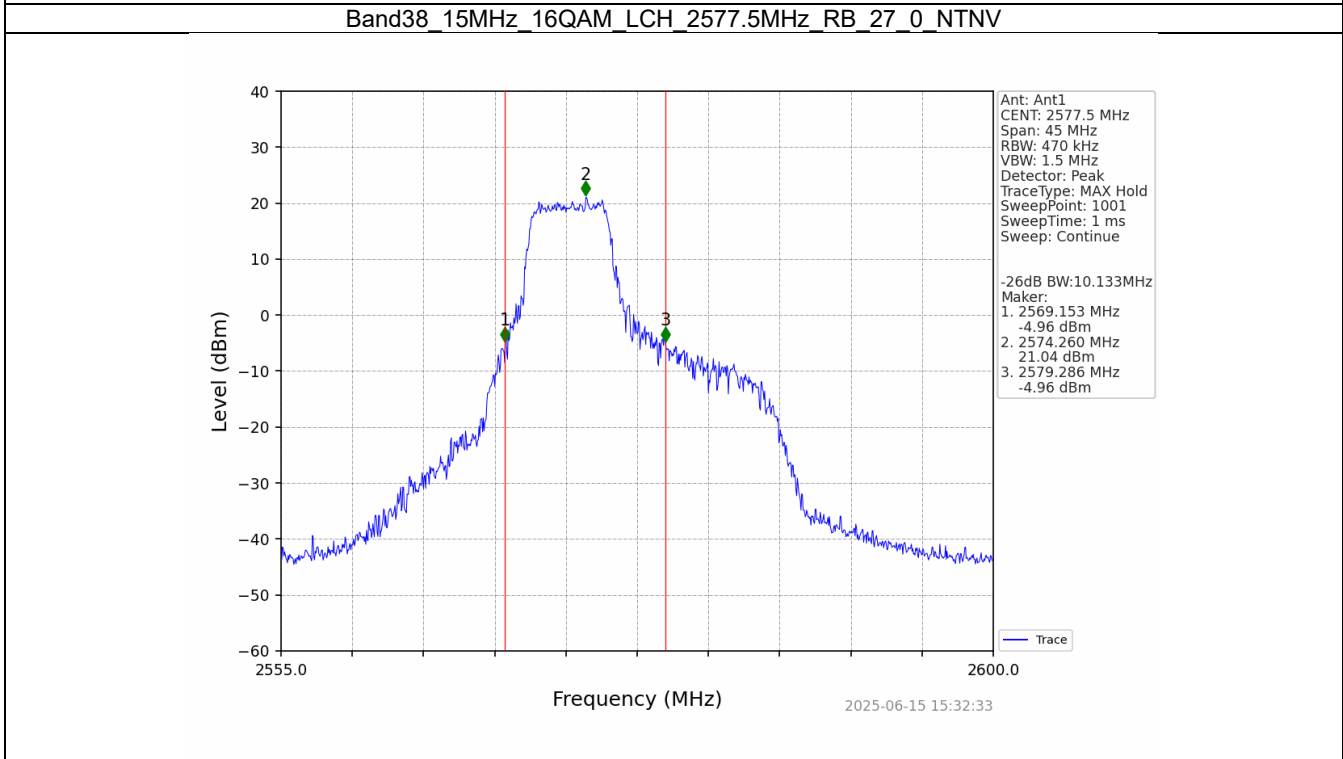
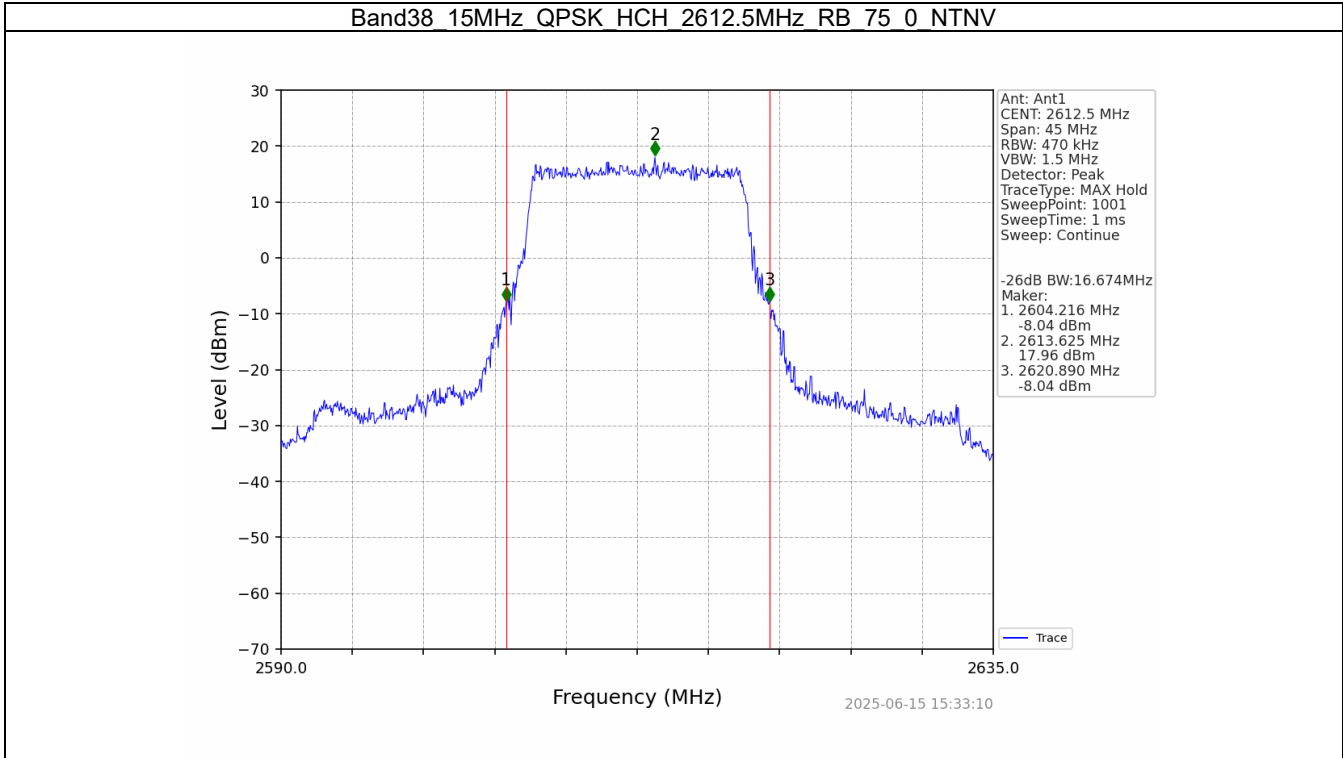


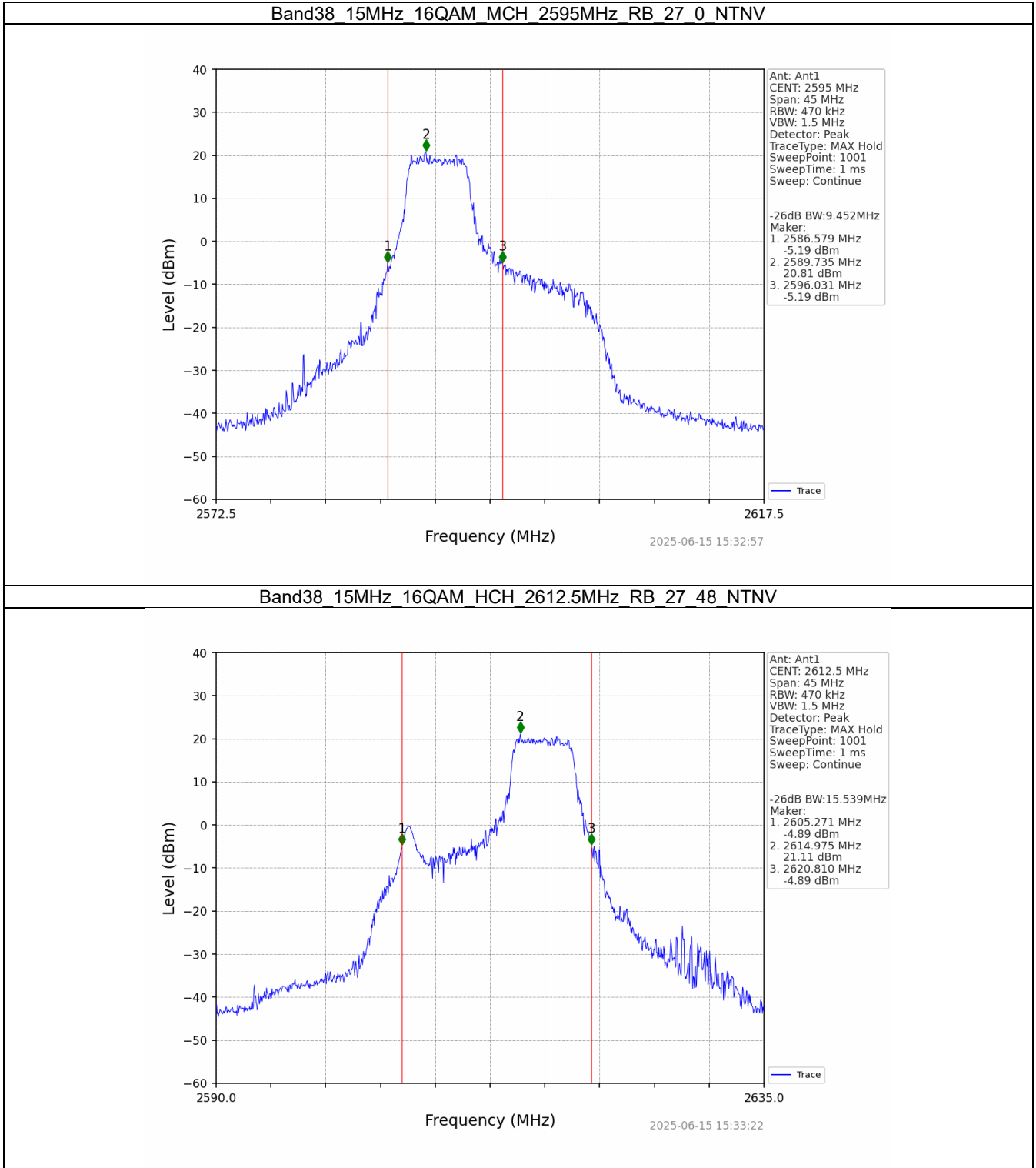


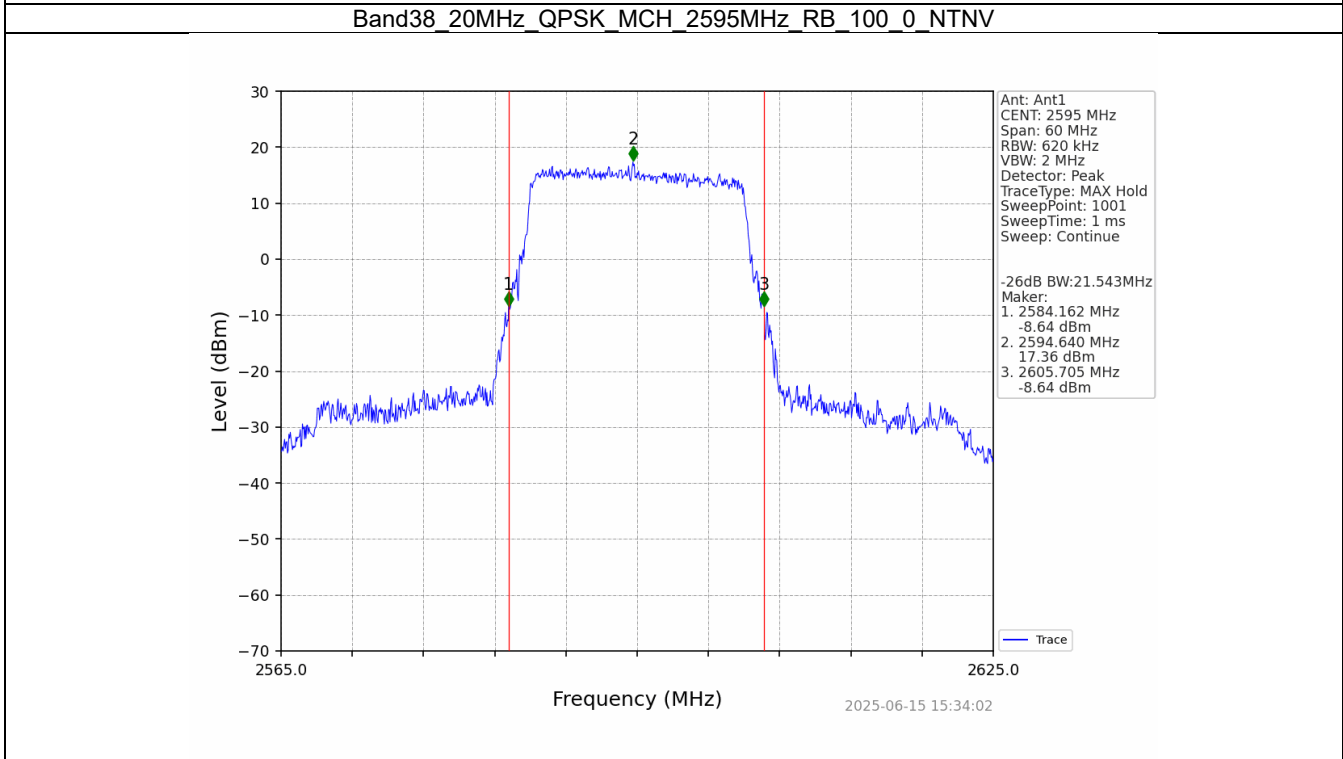
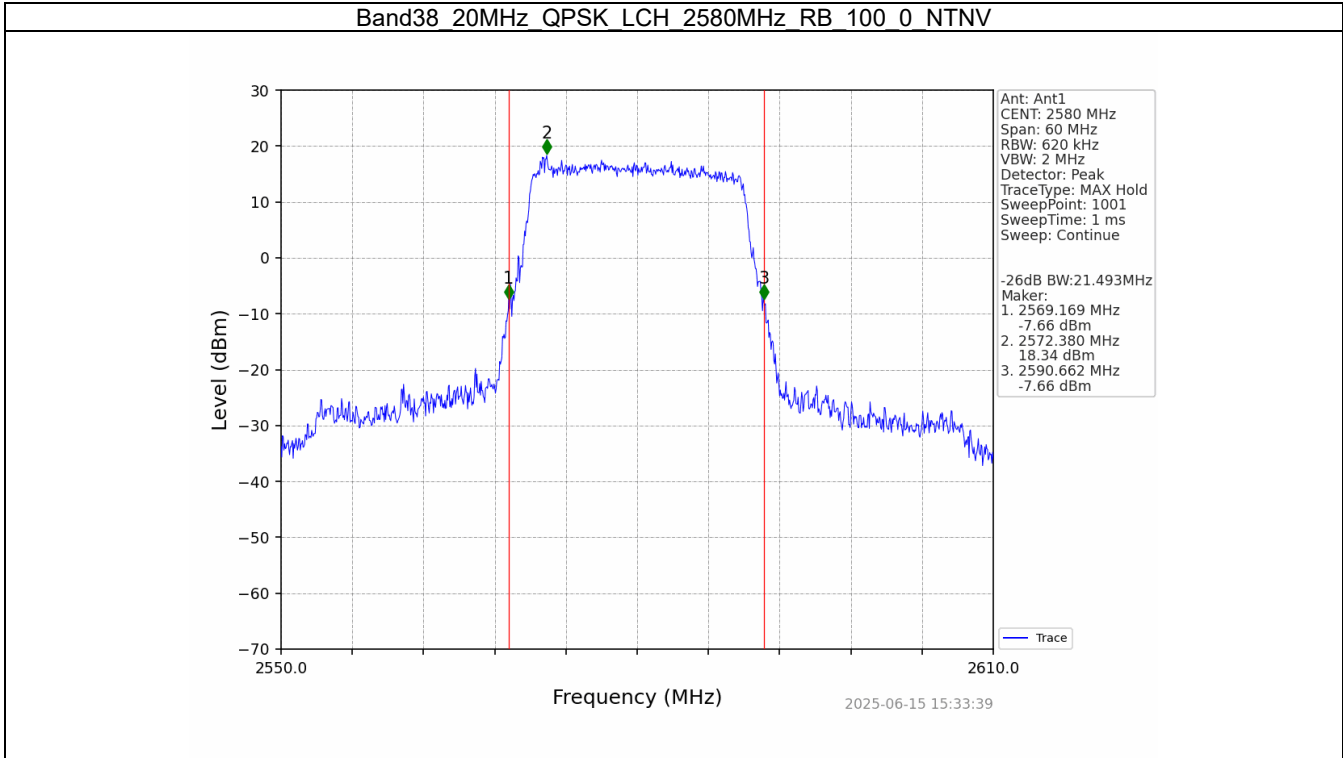


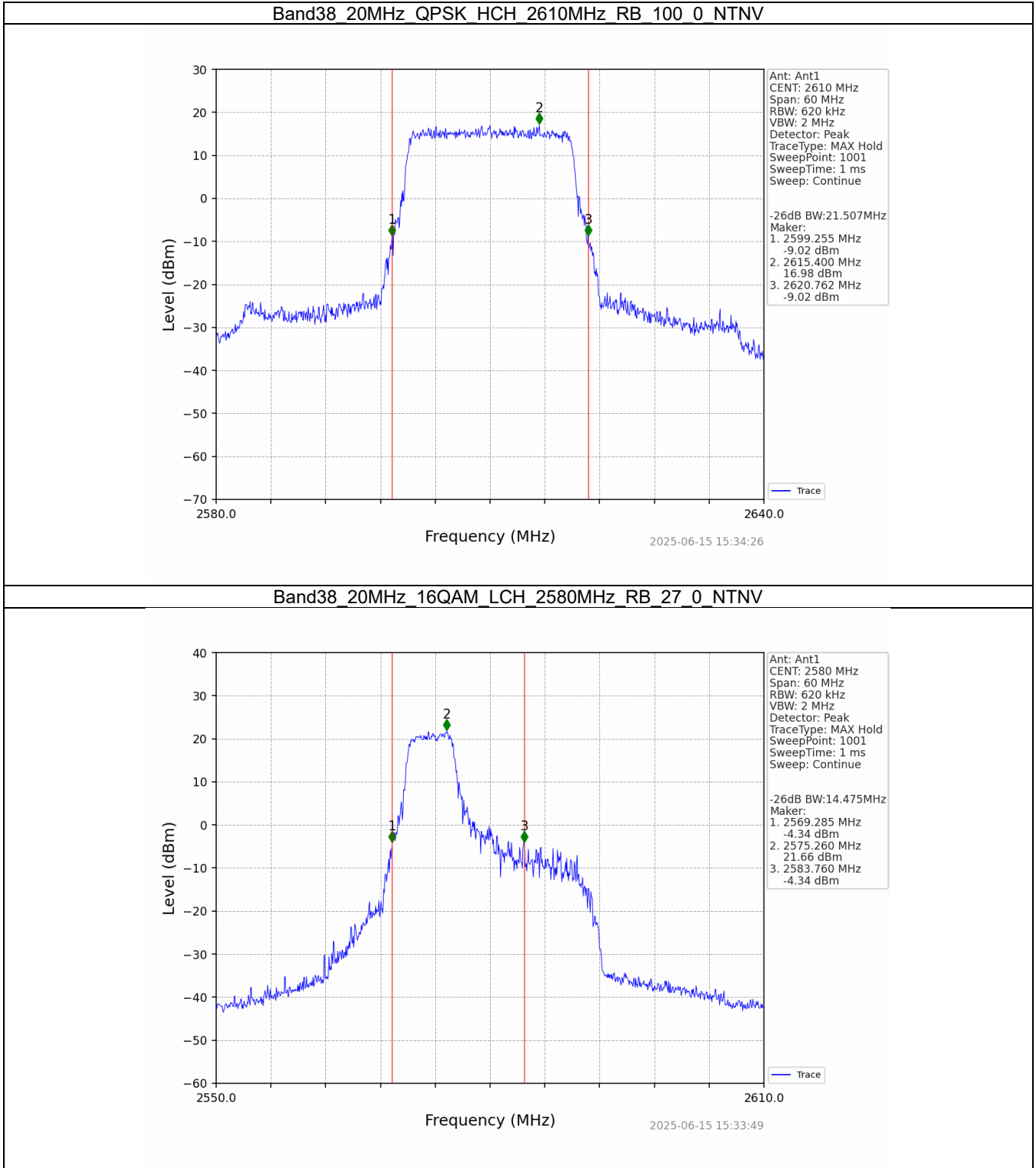


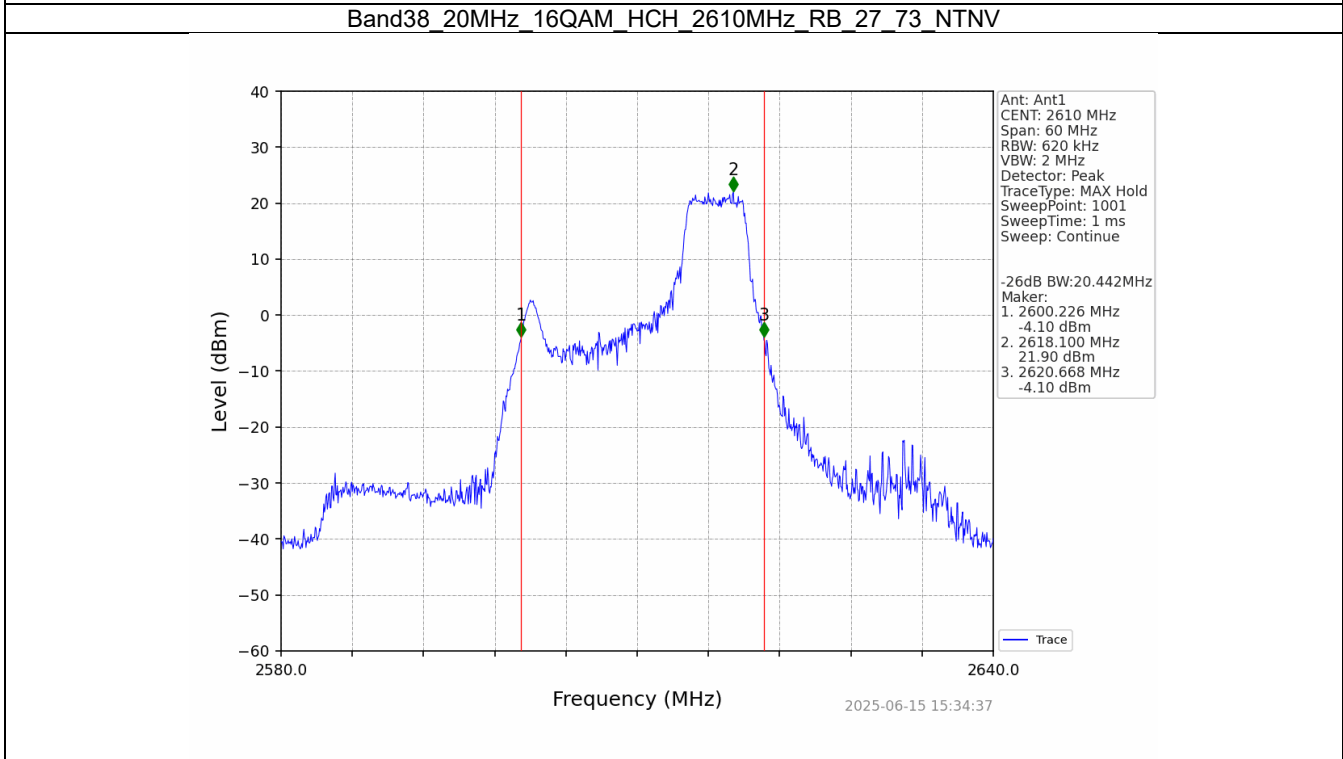
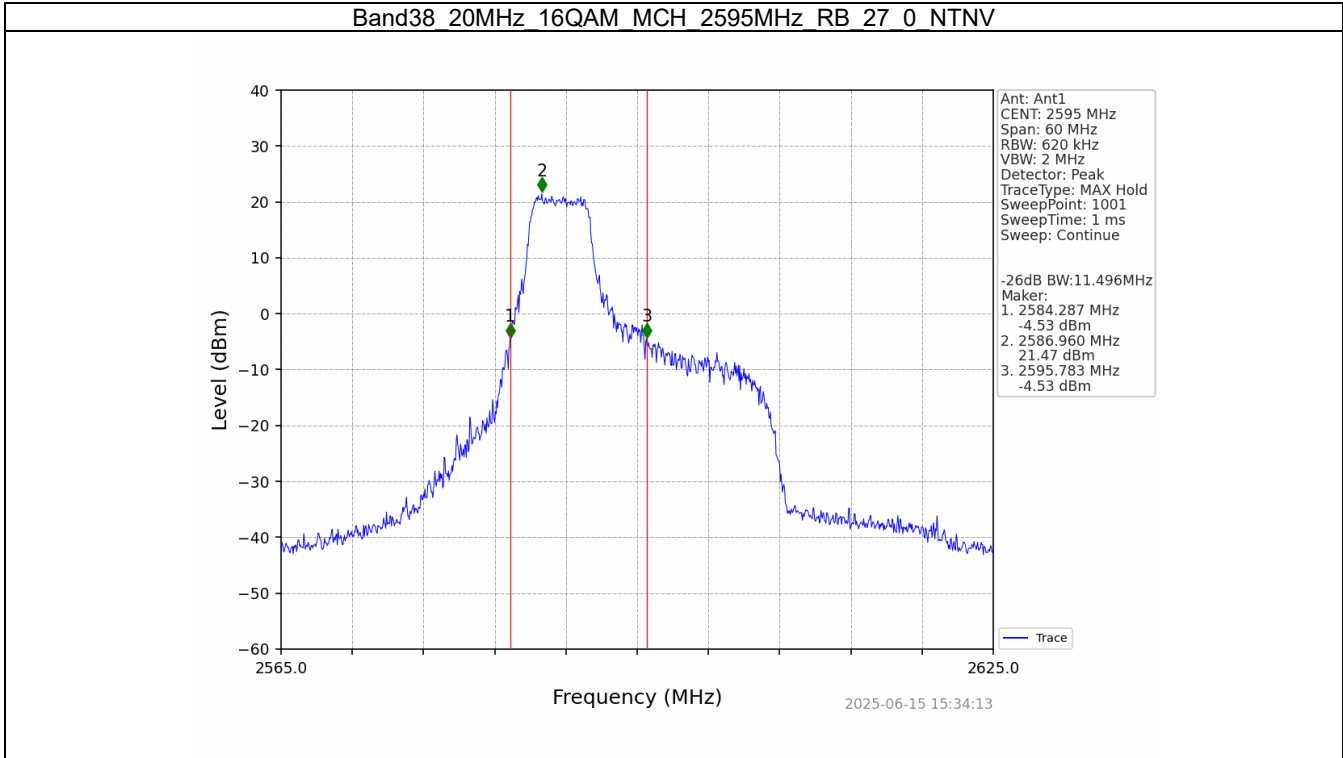












5. Peak-Average Ratio

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	7.86	<=13	Pass
	2595	25	0	9.22	<=13	Pass
	2617.5	25	0	7.65	<=13	Pass
16QAM	2572.5	25	0	8.45	<=13	Pass
	2595	25	0	11.50	<=13	Pass
	2617.5	25	0	8.18	<=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	7.39	<=13	Pass
	2595	50	0	7.29	<=13	Pass
	2615	50	0	7.47	<=13	Pass
16QAM	2575	27	0	8.09	<=13	Pass
	2595	27	0	7.95	<=13	Pass
	2615	27	23	12.24	<=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	8.04	<=13	Pass
	2595	75	0	7.88	<=13	Pass
	2612.5	75	0	7.66	<=13	Pass
16QAM	2577.5	27	0	8.42	<=13	Pass
	2595	27	0	8.29	<=13	Pass
	2612.5	27	48	7.70	<=13	Pass

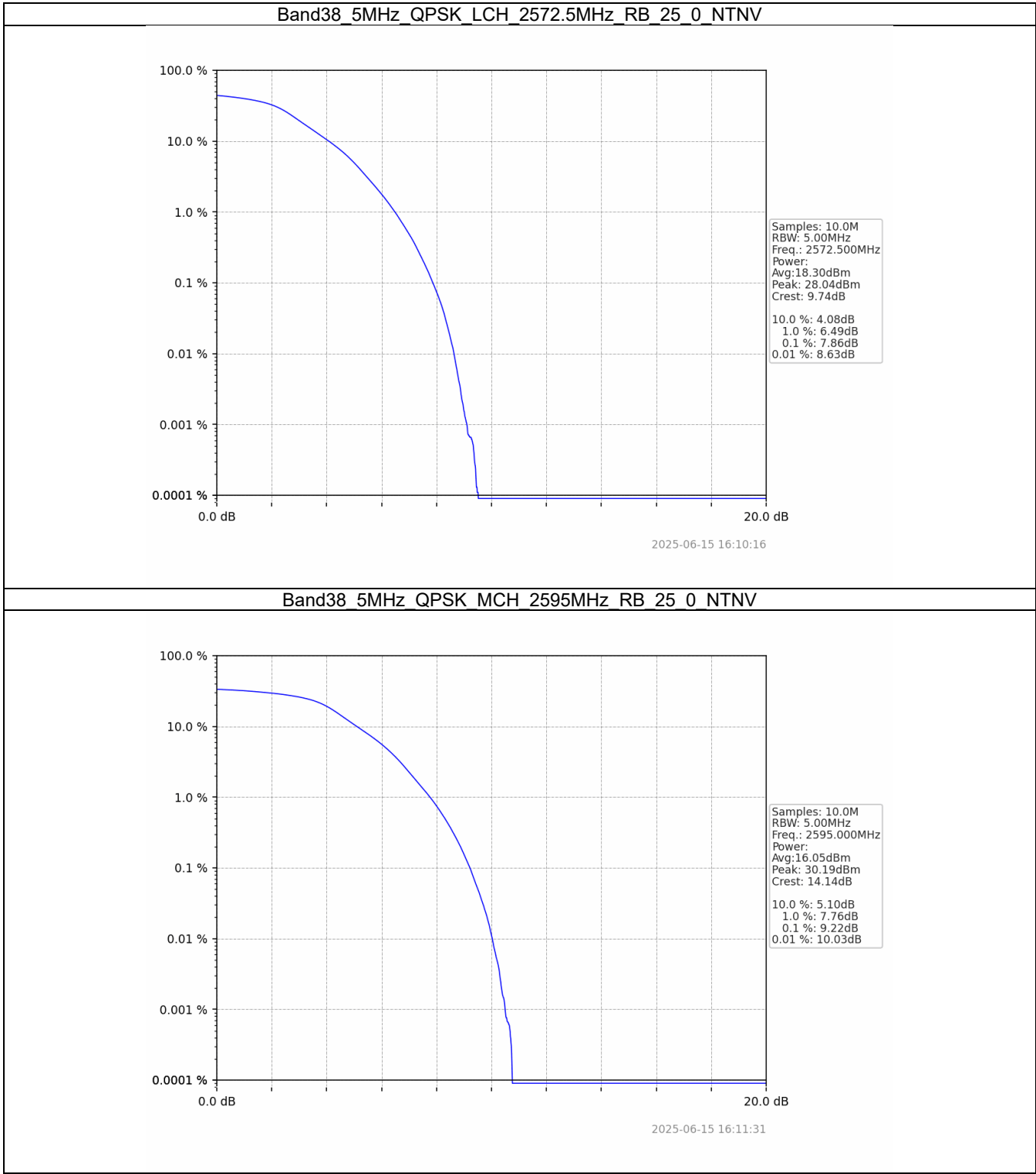
5.1.4 B38_20MHz

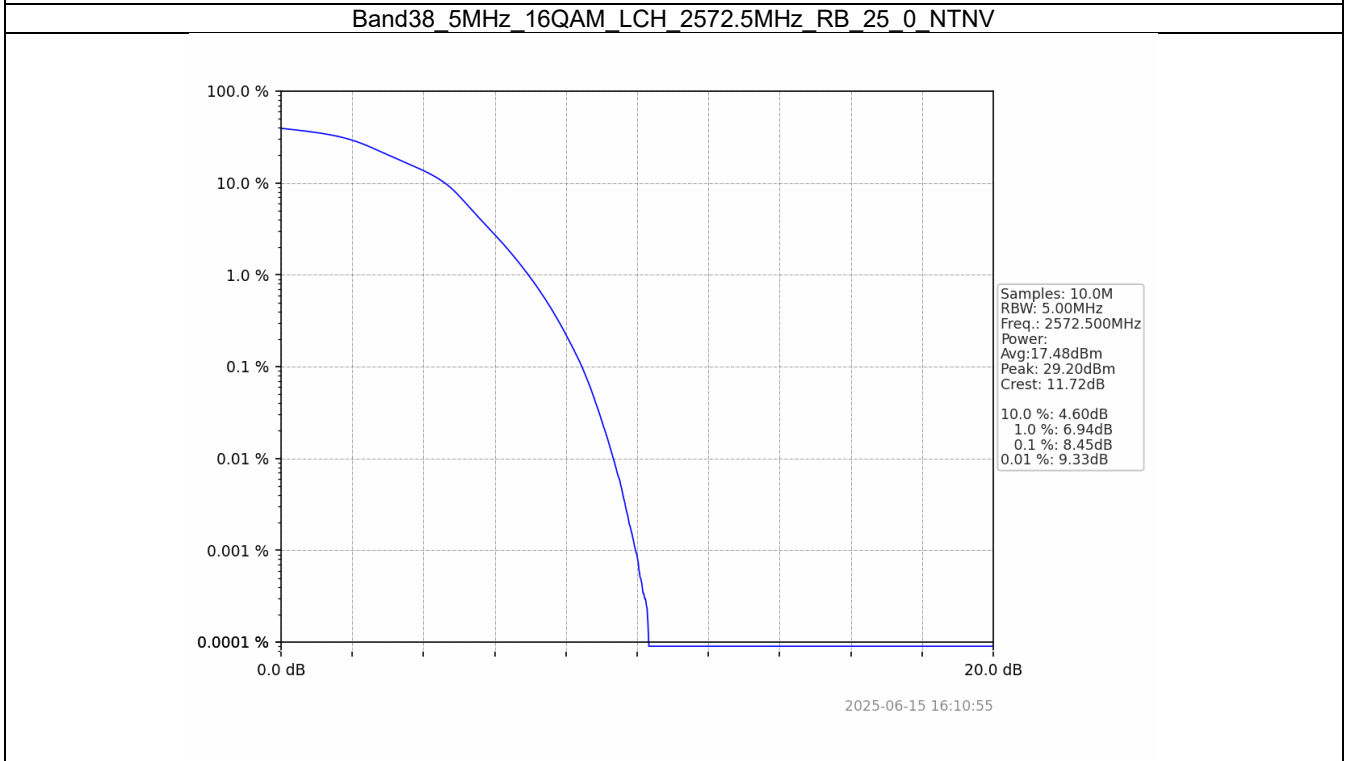
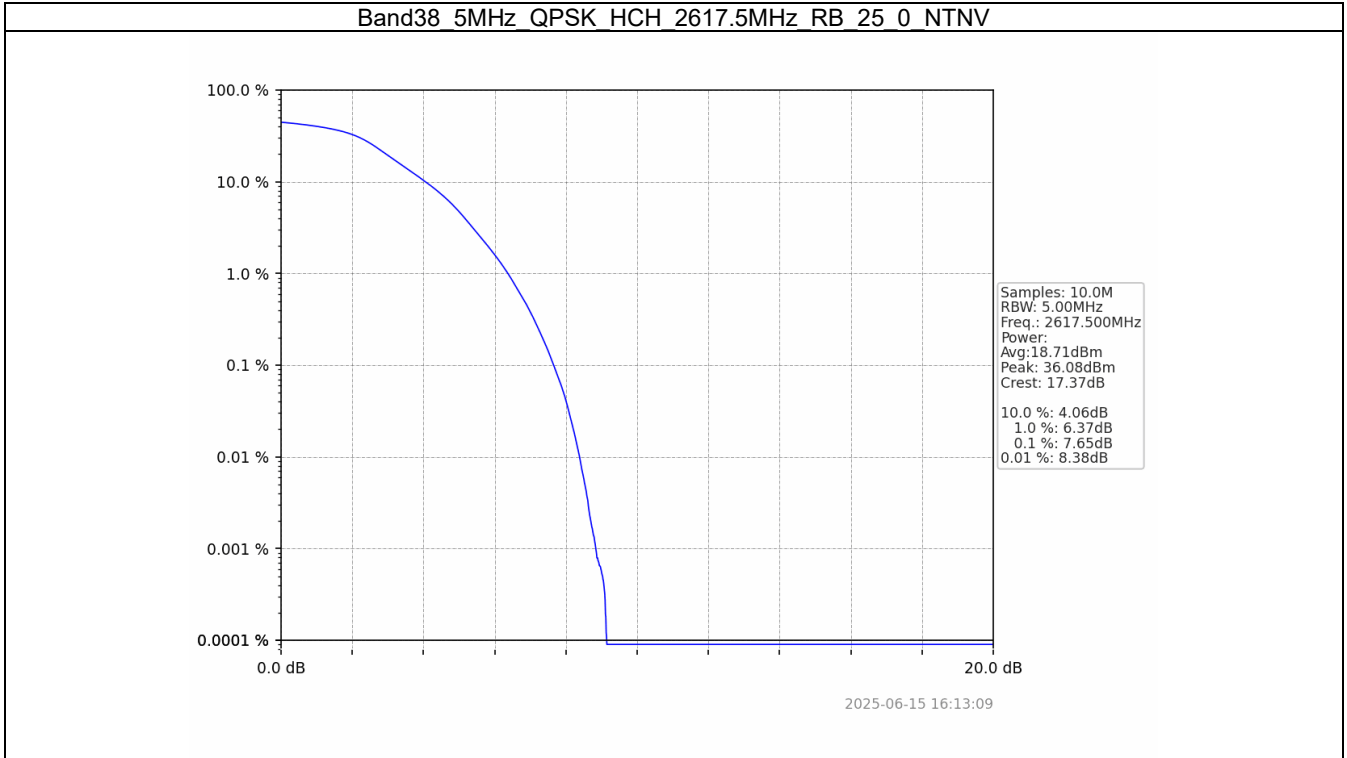
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.33	<=13	Pass
	2595	100	0	7.31	<=13	Pass
	2610	100	0	7.91	<=13	Pass
16QAM	2580	27	0	8.13	<=13	Pass
	2595	27	0	8.26	<=13	Pass

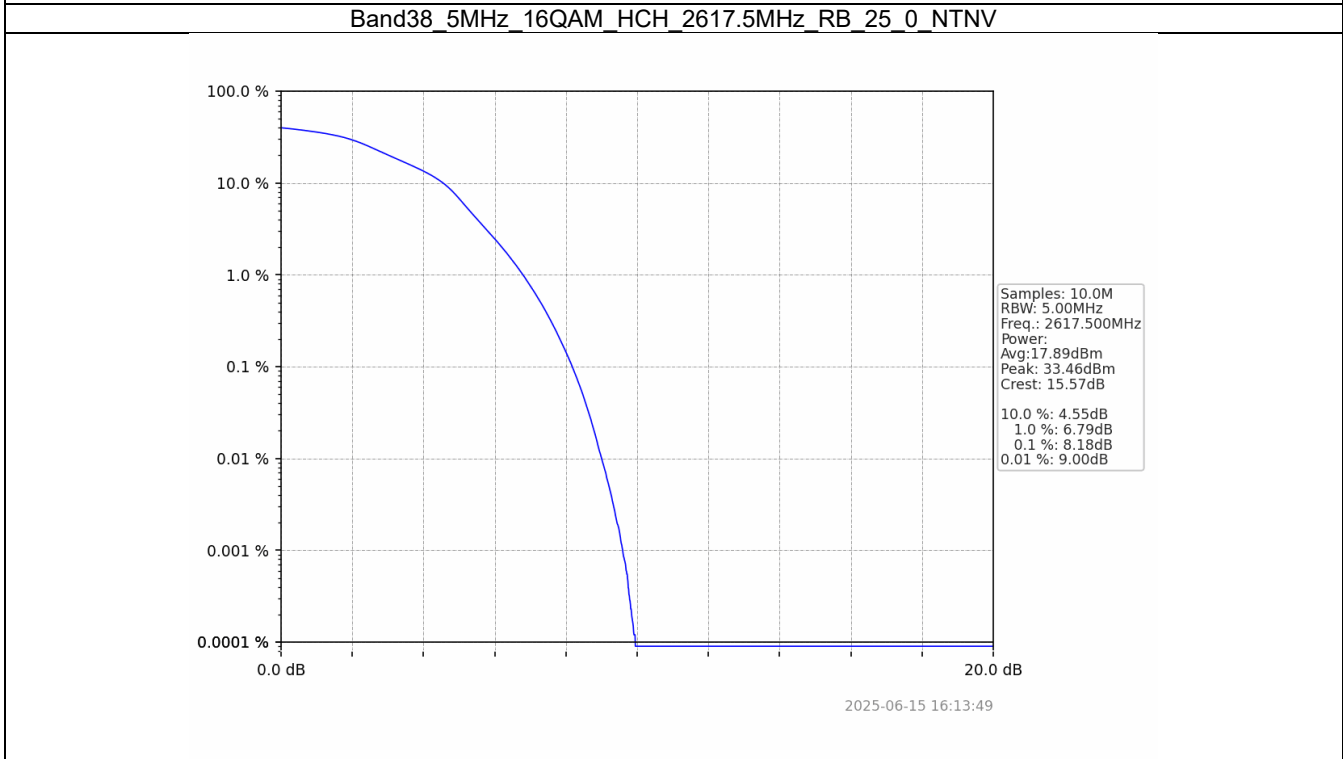
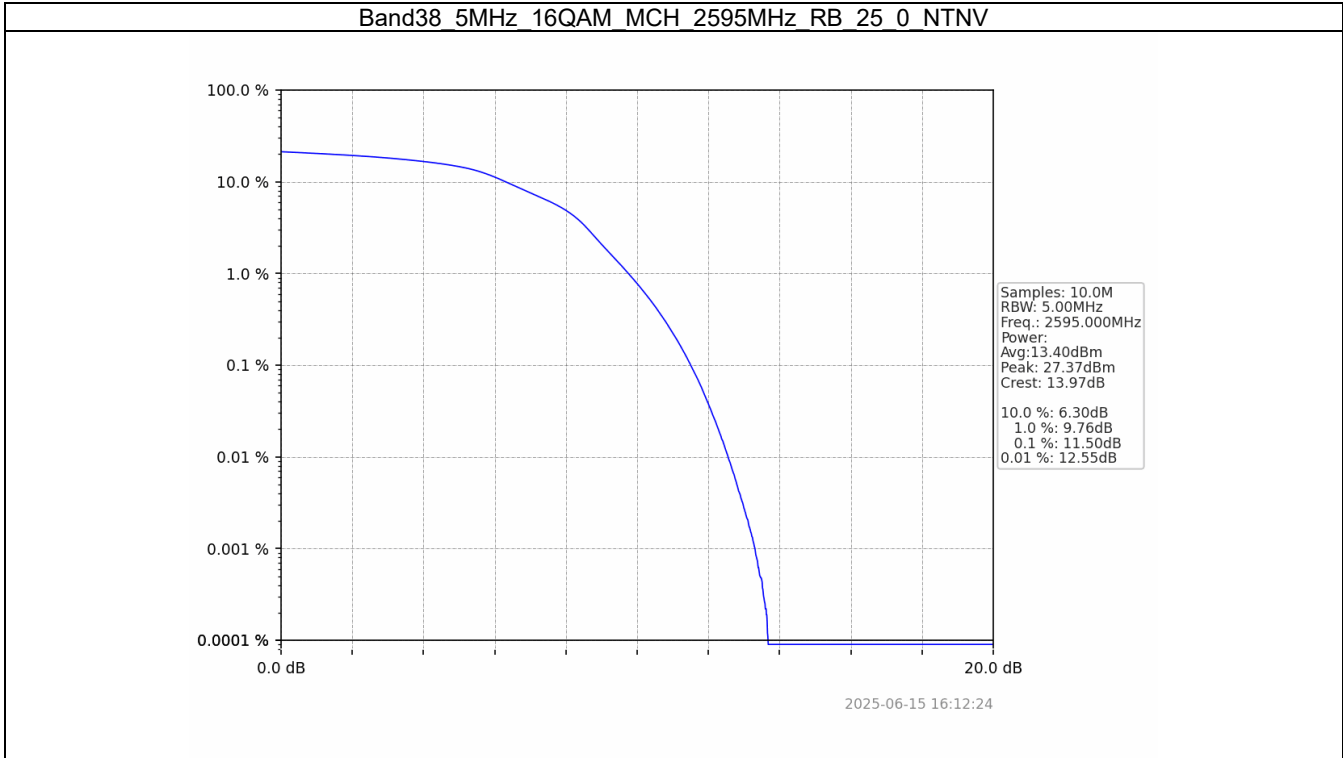
	2610	27	73	8.08	<=13	Pass
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5.2 Test Graph

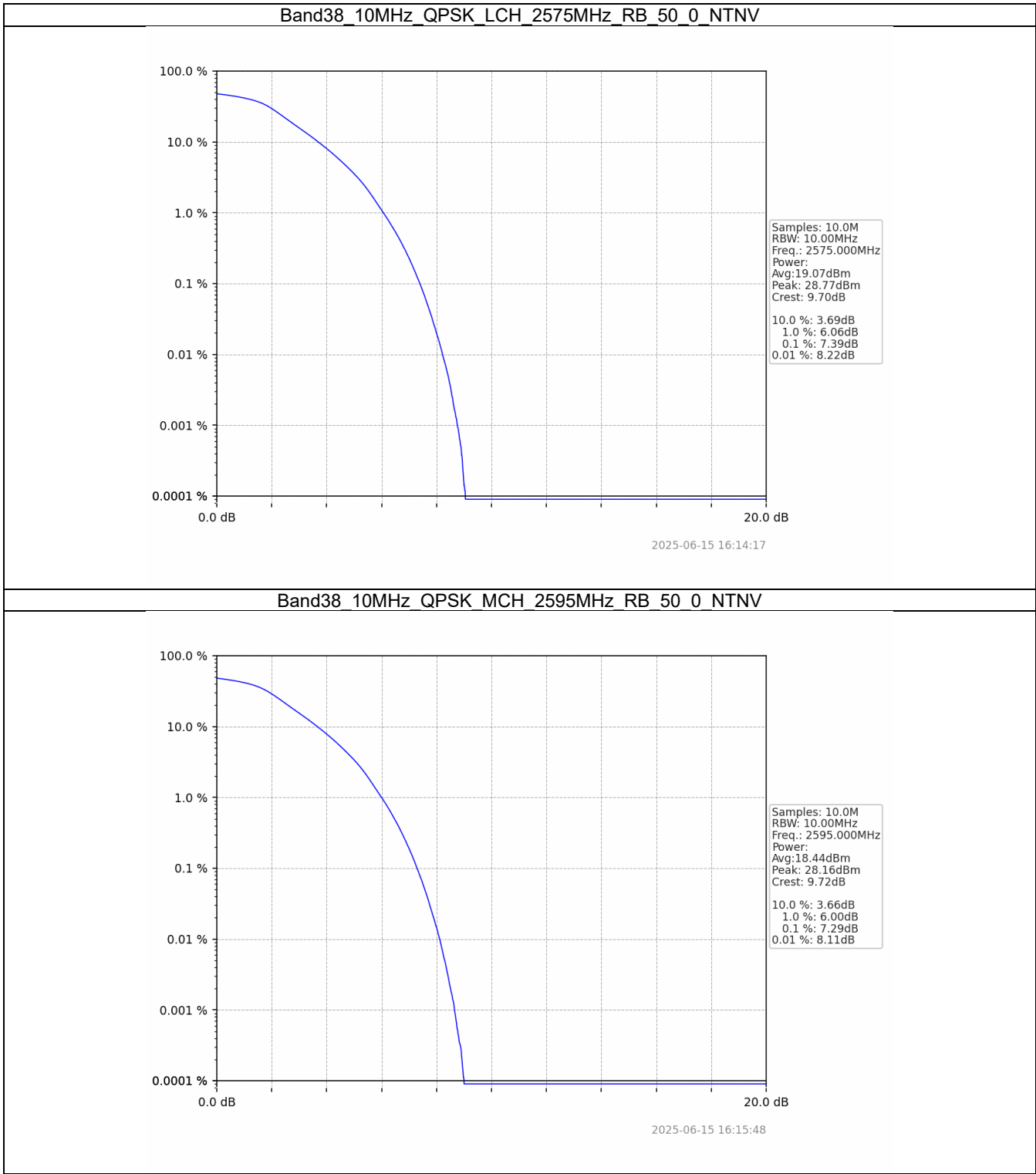
5.2.1 B38_5MHz



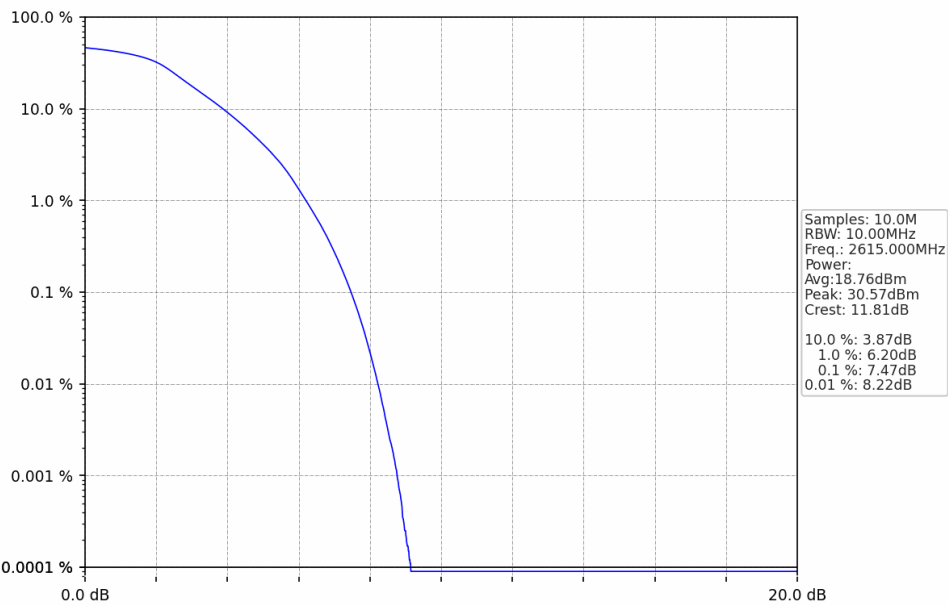




5.2.2 B38_10MHz

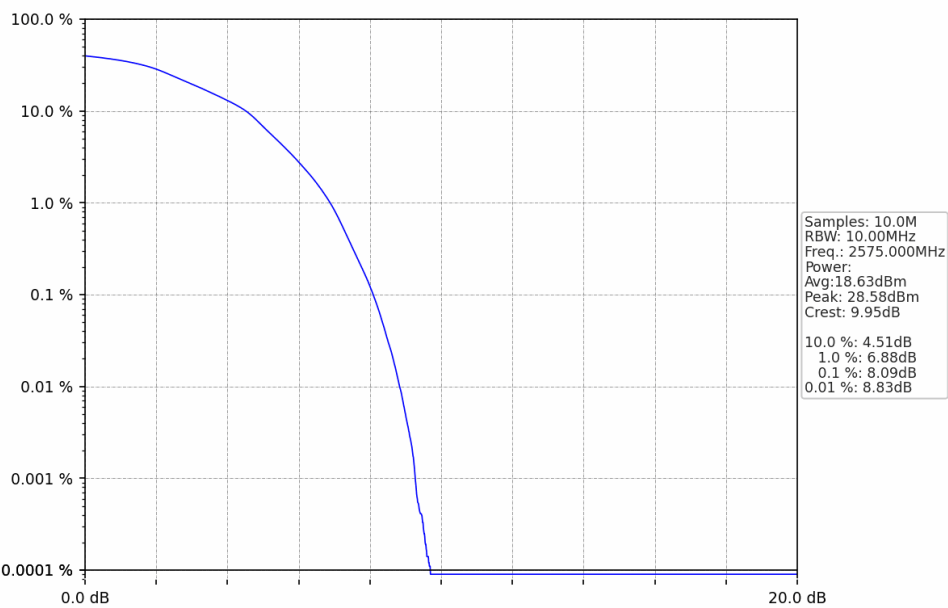


Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV

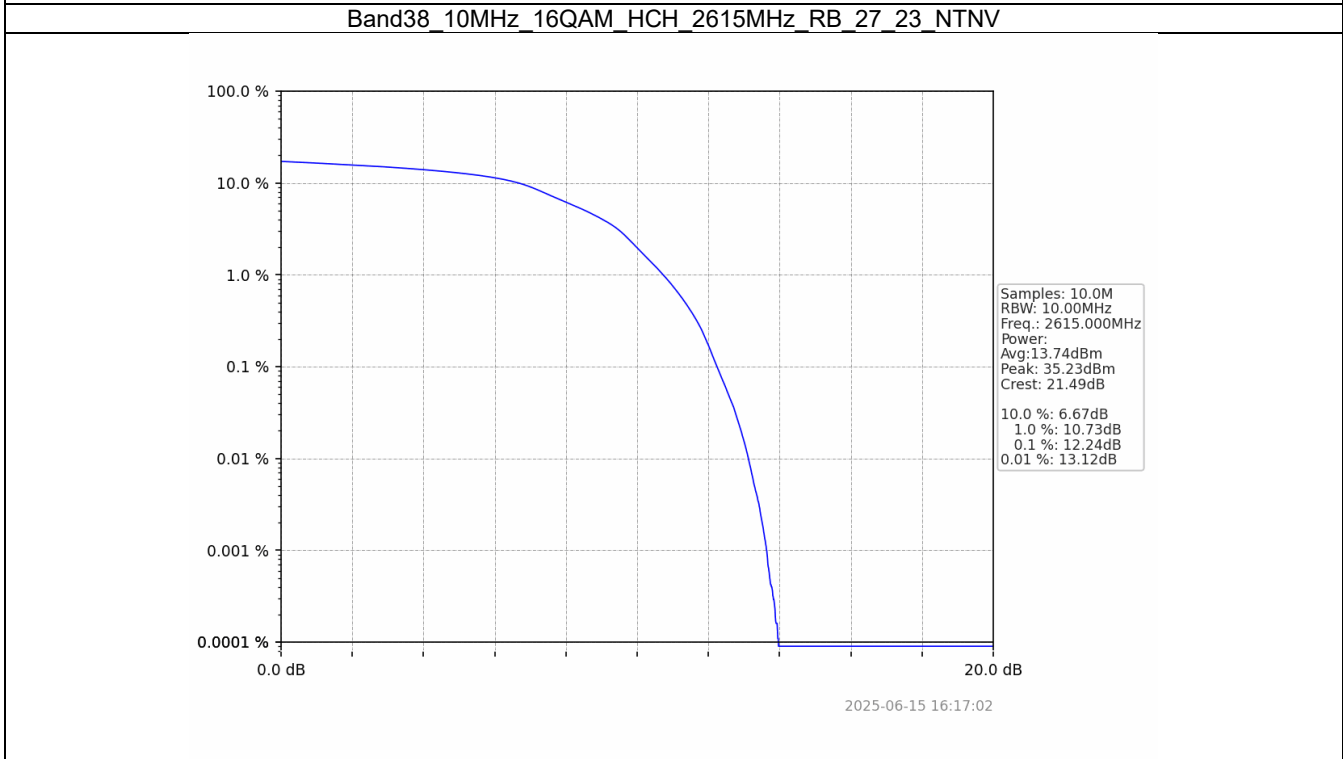
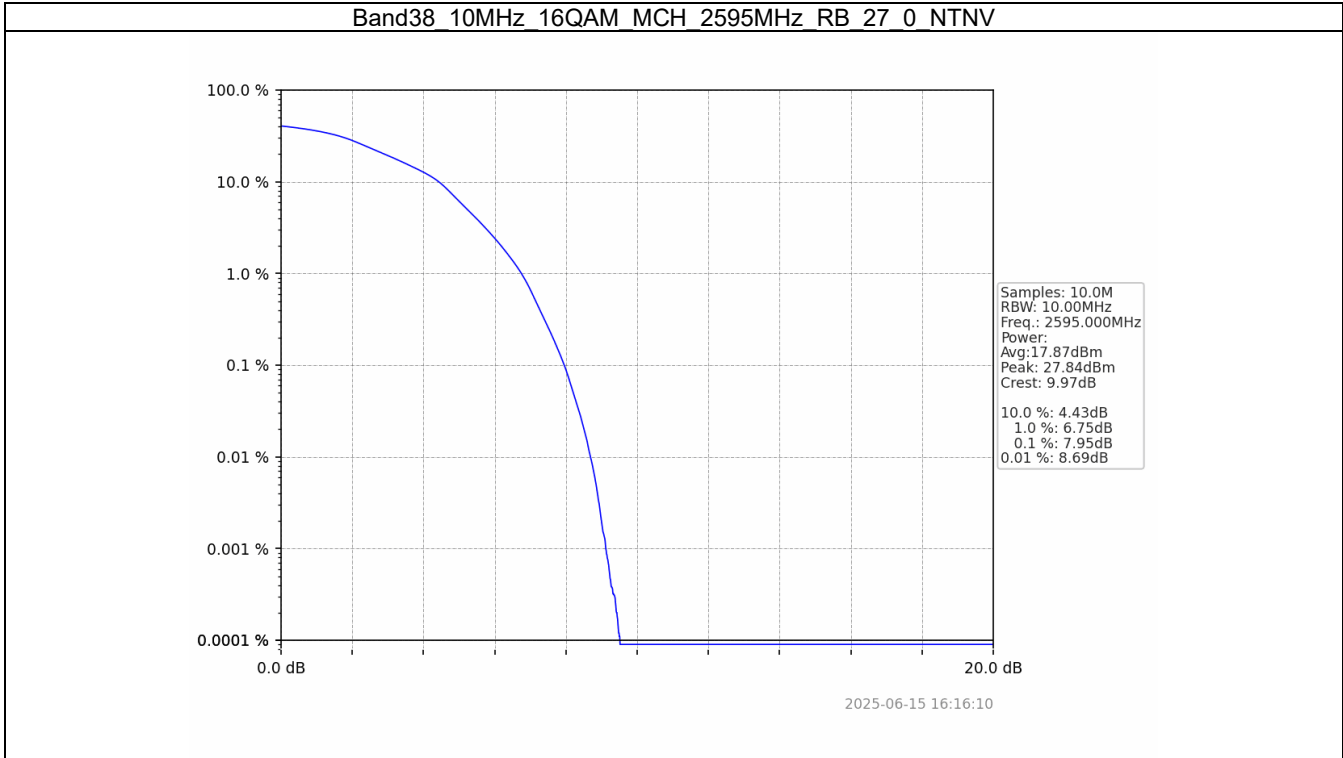


2025-06-15 16:16:34

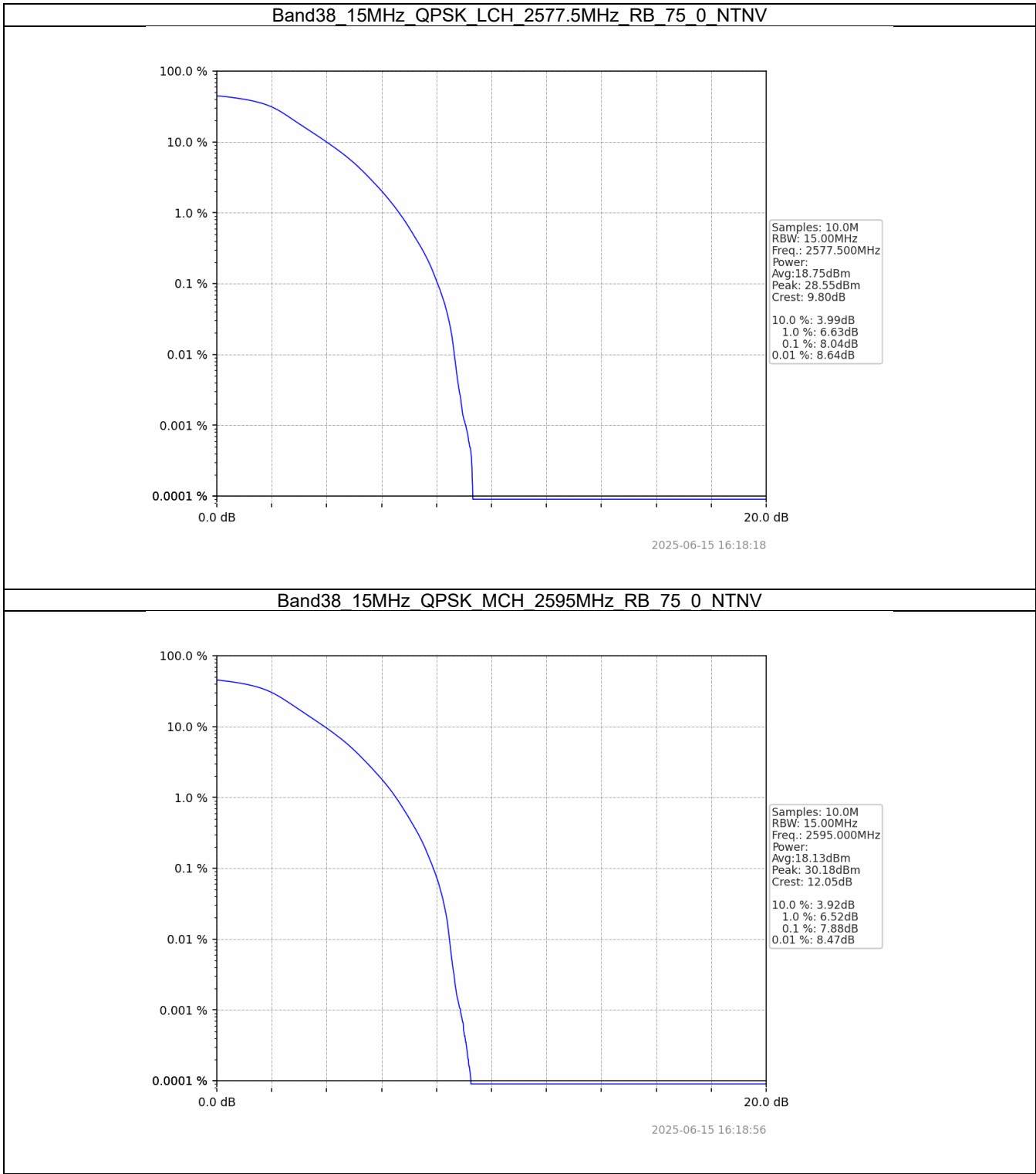
Band38_10MHz_16QAM_LCH_2575MHz_RB_27_0_NTNV

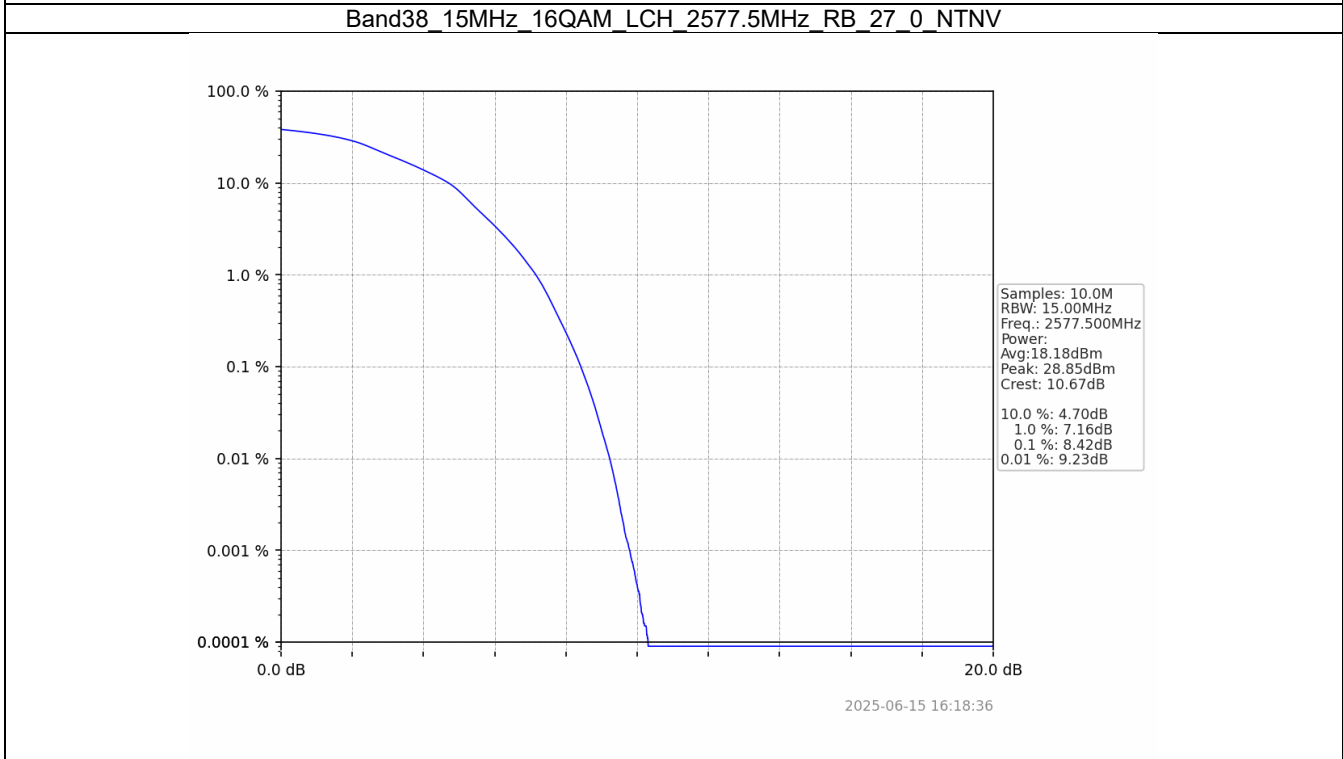
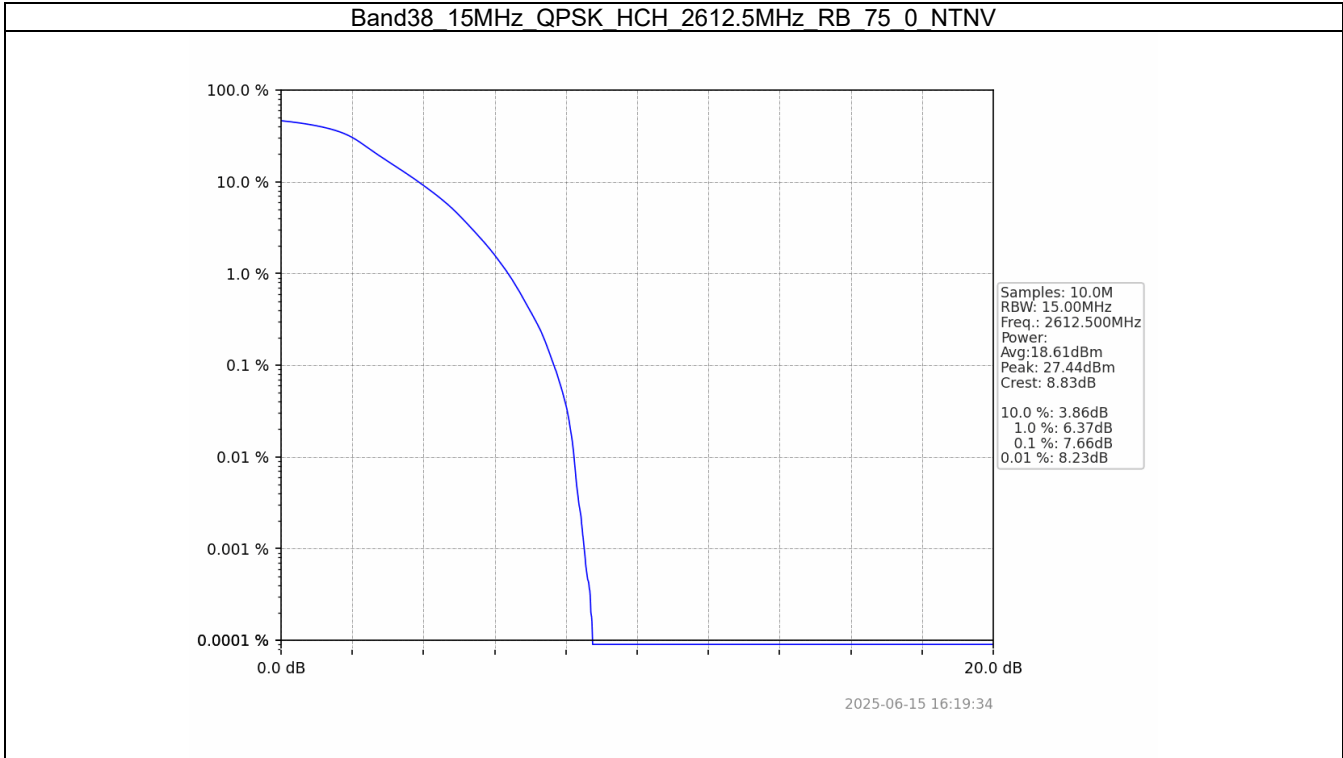


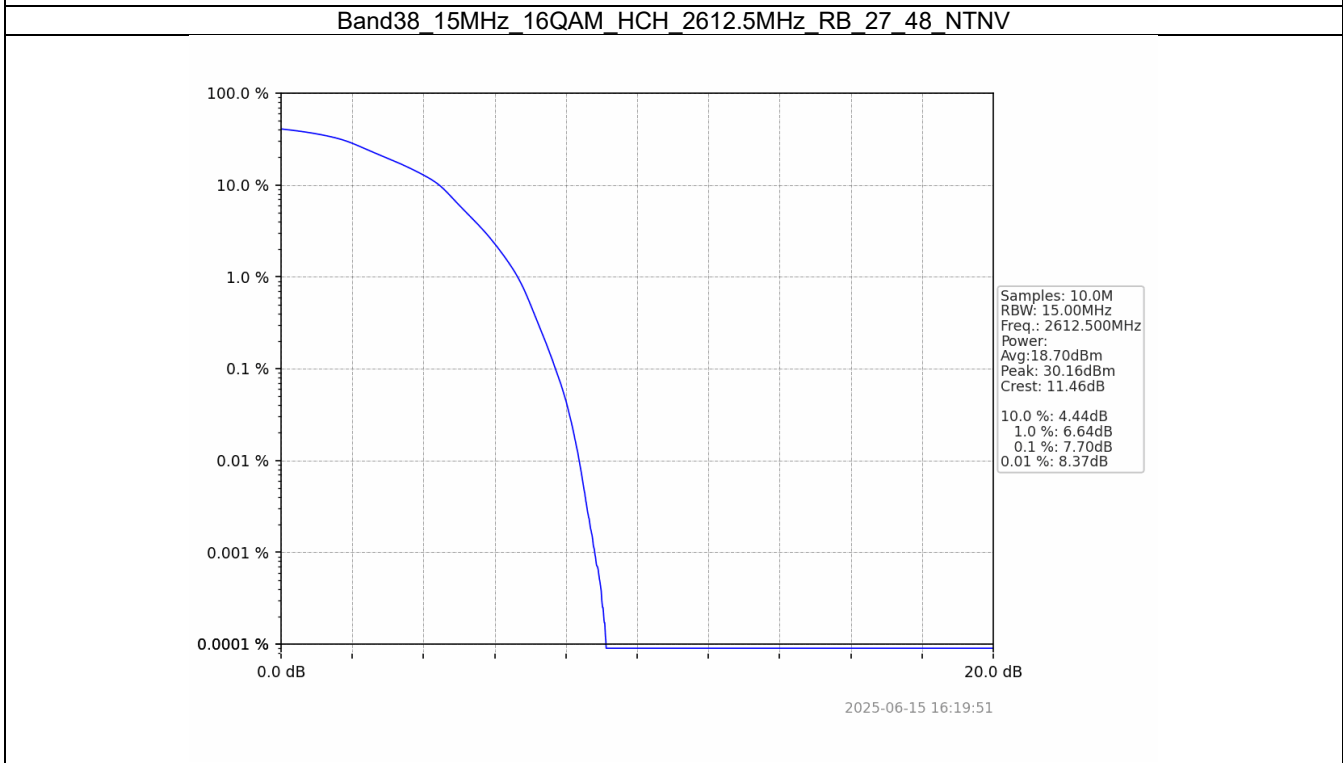
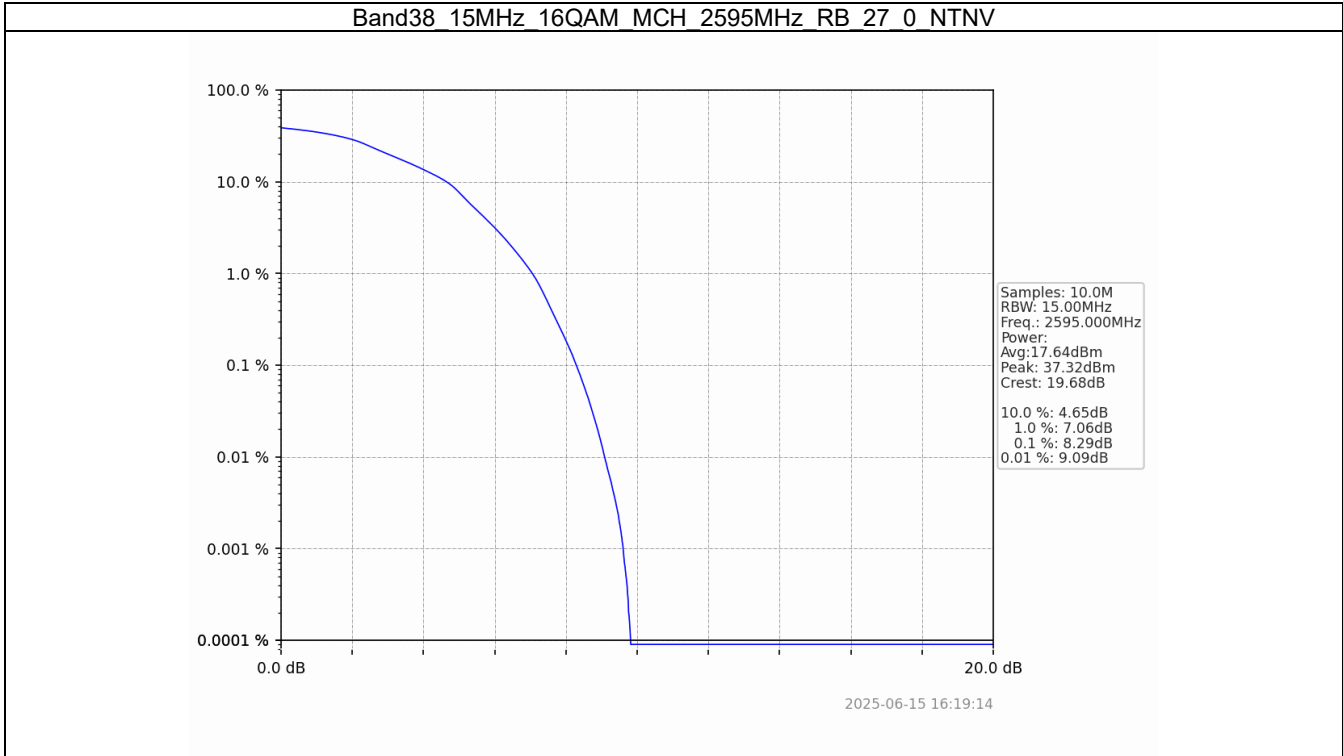
2025-06-16 20:25:07



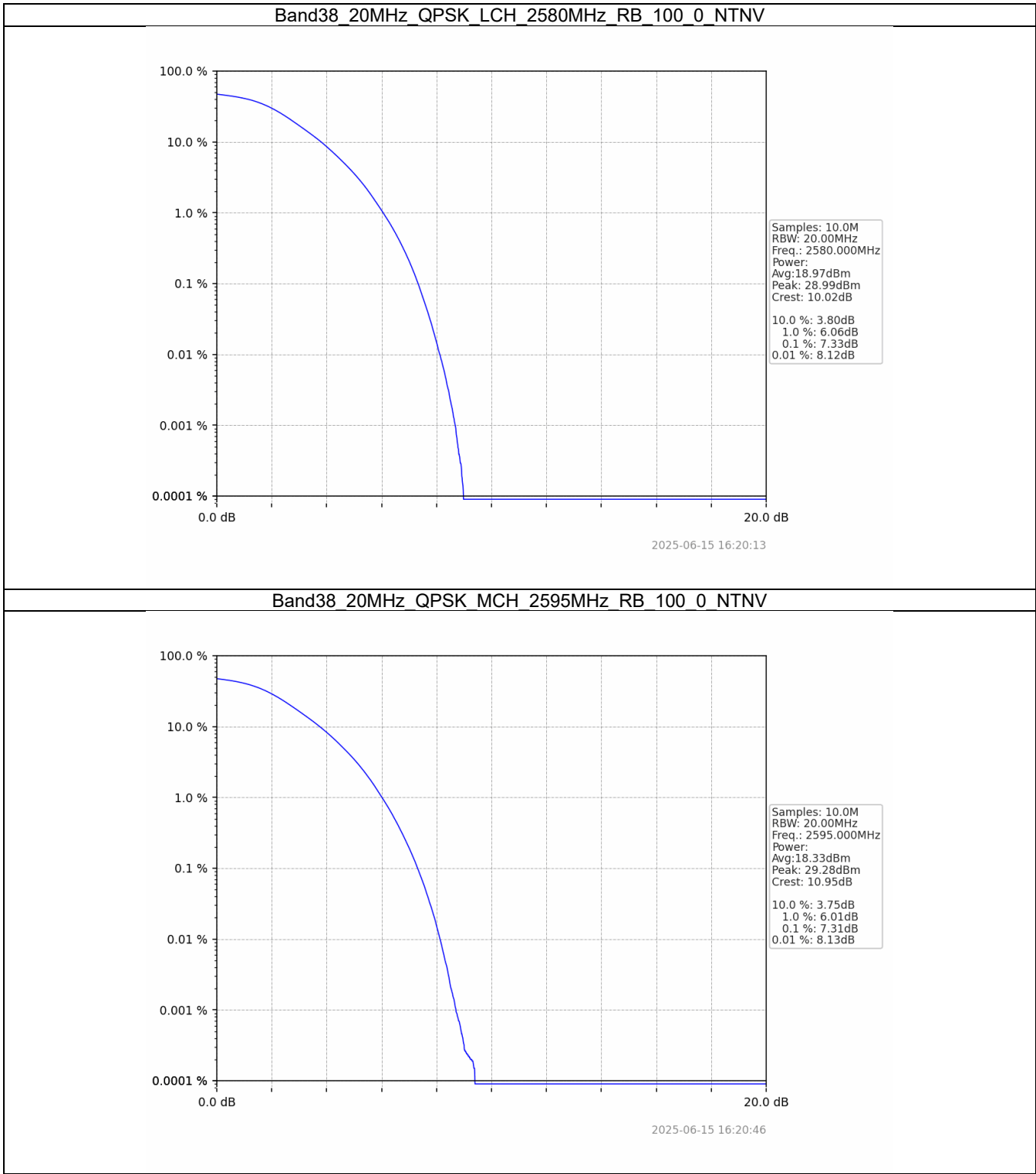
5.2.3 B38_15MHz

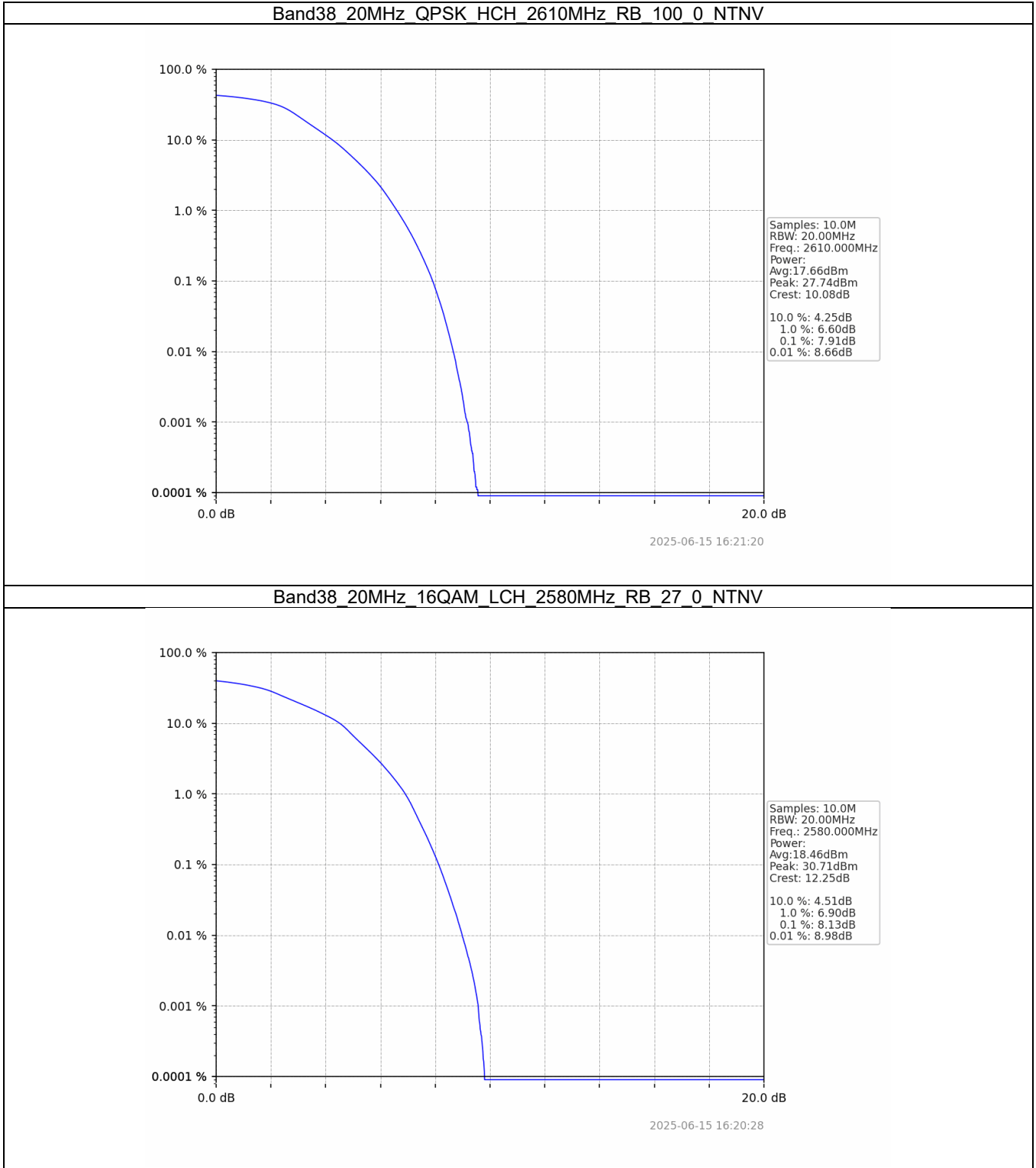


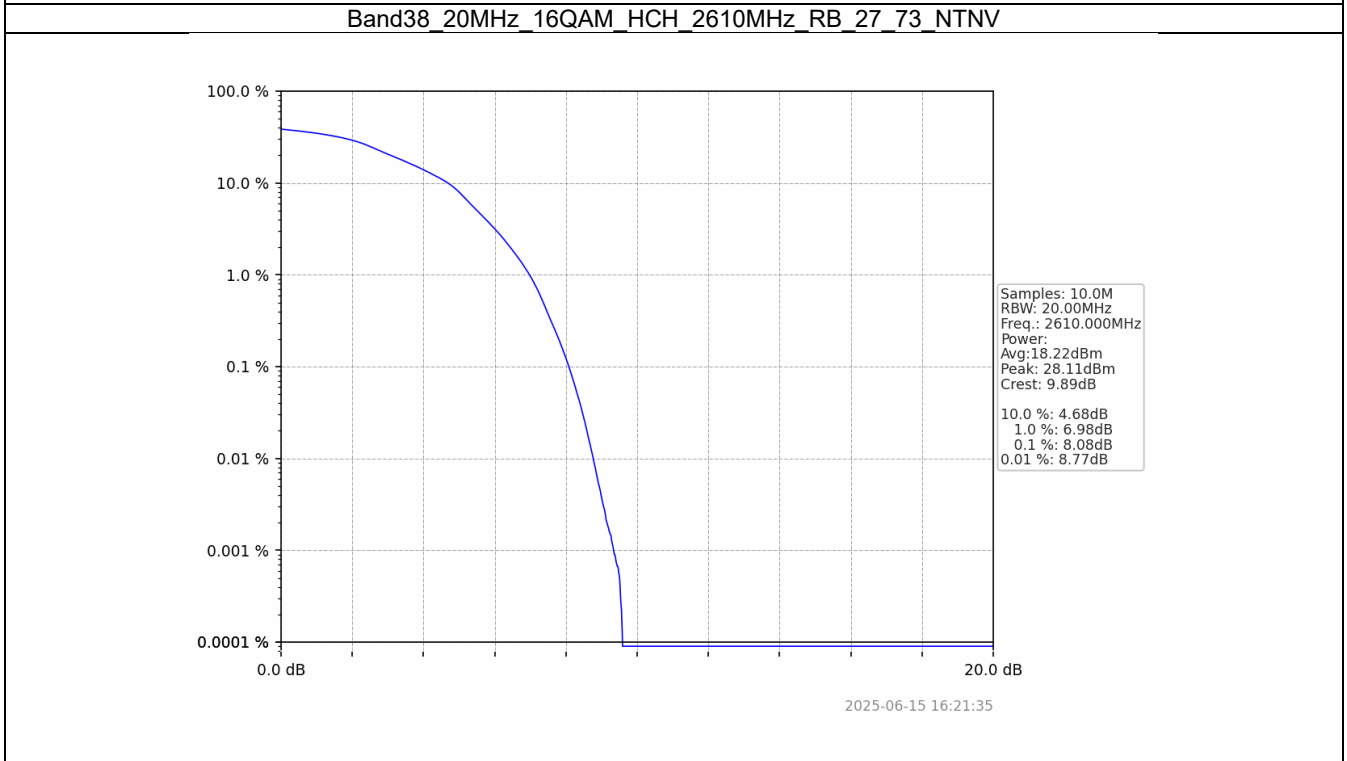
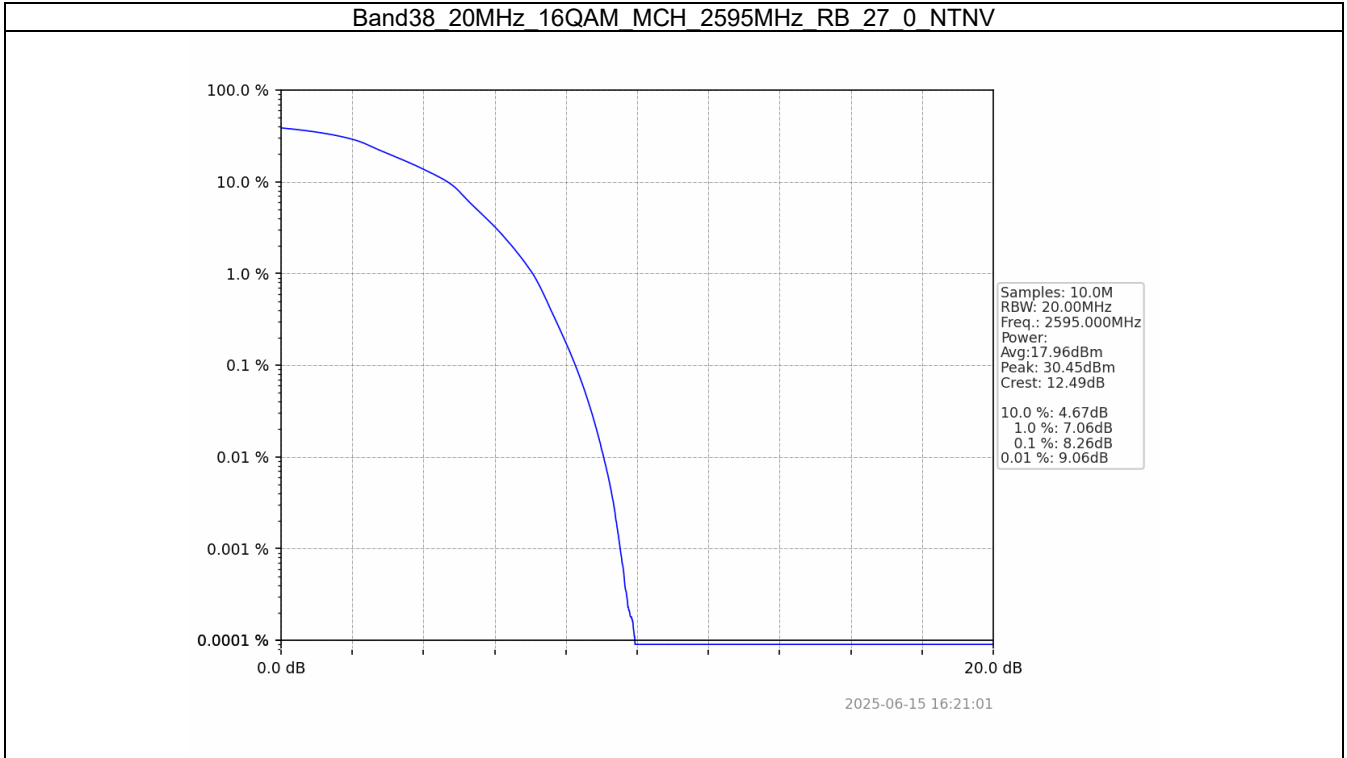




5.2.4 B38_20MHz







6. Spurious Emission

6.1 Test Result

6.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

6.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2575	1	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass

6.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	2577.5	1	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass

			74	Refer To Test Graph	Pass
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6.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2580	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
16QAM	2580	1	0	Refer To Test Graph	Pass
	2595	1	0	Refer To Test Graph	Pass
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass

6.2 Test Graph

6.2.1 B38_5MHz

