

Appendix RF Test Data for LTE band 41

Company: : CHIGEE TECHNOLOGY CO., LTD.
EUT : Smart Riding System
FCC ID : 2A95C-AIO-6LTE
Model Number : AIO-6 LTE
Report No. : HTT2024121247F08
Reviewed By : Heber He

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	22.63	-3.13	19.50	<=33.01	Pass
			13	22.80	-3.13	19.67	<=33.01	Pass
			24	22.82	-3.13	19.69	<=33.01	Pass
		12	0	21.62	-3.13	18.49	<=33.01	Pass
			6	21.68	-3.13	18.55	<=33.01	Pass
			13	21.86	-3.13	18.73	<=33.01	Pass
		25	0	22.01	-3.13	18.88	<=33.01	Pass
	2593	1	0	23.49	-3.13	20.36	<=33.01	Pass
			13	23.31	-3.13	20.18	<=33.01	Pass
			24	23.44	-3.13	20.31	<=33.01	Pass
		12	0	22.40	-3.13	19.27	<=33.01	Pass
			6	22.32	-3.13	19.19	<=33.01	Pass
			13	22.38	-3.13	19.25	<=33.01	Pass
		25	0	22.29	-3.13	19.16	<=33.01	Pass
	2687.5	1	0	23.68	-3.13	20.55	<=33.01	Pass
			13	23.57	-3.13	20.44	<=33.01	Pass
			24	23.88	-3.13	20.75	<=33.01	Pass
		12	0	22.77	-3.13	19.64	<=33.01	Pass
			6	22.72	-3.13	19.59	<=33.01	Pass
			13	22.72	-3.13	19.59	<=33.01	Pass
		25	0	22.74	-3.13	19.61	<=33.01	Pass
16QAM	2498.5	1	0	21.66	-3.13	18.53	<=33.01	Pass
			13	21.96	-3.13	18.83	<=33.01	Pass
			24	22.16	-3.13	19.03	<=33.01	Pass
		12	0	20.64	-3.13	17.51	<=33.01	Pass
			6	20.67	-3.13	17.54	<=33.01	Pass
			13	20.86	-3.13	17.73	<=33.01	Pass
		25	0	21.11	-3.13	17.98	<=33.01	Pass
	2593	1	0	22.41	-3.13	19.28	<=33.01	Pass
			13	22.20	-3.13	19.07	<=33.01	Pass
			24	22.50	-3.13	19.37	<=33.01	Pass
		12	0	21.42	-3.13	18.29	<=33.01	Pass
			6	21.51	-3.13	18.38	<=33.01	Pass
			13	21.42	-3.13	18.29	<=33.01	Pass
		25	0	21.39	-3.13	18.26	<=33.01	Pass
	2687.5	1	0	22.72	-3.13	19.59	<=33.01	Pass
			13	22.75	-3.13	19.62	<=33.01	Pass
			24	22.95	-3.13	19.82	<=33.01	Pass
		12	0	21.83	-3.13	18.70	<=33.01	Pass
6			21.71	-3.13	18.58	<=33.01	Pass	
13			21.79	-3.13	18.66	<=33.01	Pass	
25		0	21.87	-3.13	18.74	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B41_10MHz_EIRP

Band: 41 / Bandwidth: 10MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2501	1	0	22.59	-3.13	19.46	<=33.01	Pass	
			25	22.99	-3.13	19.86	<=33.01	Pass	
			49	22.76	-3.13	19.63	<=33.01	Pass	
		25	0	21.60	-3.13	18.47	<=33.01	Pass	
			13	21.62	-3.13	18.49	<=33.01	Pass	
			25	22.13	-3.13	19.00	<=33.01	Pass	
		50	0	22.02	-3.13	18.89	<=33.01	Pass	
		2593	1	0	23.79	-3.13	20.66	<=33.01	Pass
				25	23.36	-3.13	20.23	<=33.01	Pass
	49			23.40	-3.13	20.27	<=33.01	Pass	
	25		0	22.38	-3.13	19.25	<=33.01	Pass	
			13	22.26	-3.13	19.13	<=33.01	Pass	
			25	22.40	-3.13	19.27	<=33.01	Pass	
	50	0	22.42	-3.13	19.29	<=33.01	Pass		
	2685	1	0	23.57	-3.13	20.44	<=33.01	Pass	
			25	23.83	-3.13	20.70	<=33.01	Pass	
			49	23.70	-3.13	20.57	<=33.01	Pass	
		25	0	22.62	-3.13	19.49	<=33.01	Pass	
			13	22.48	-3.13	19.35	<=33.01	Pass	
			25	22.90	-3.13	19.77	<=33.01	Pass	
		50	0	22.84	-3.13	19.71	<=33.01	Pass	
16QAM		2501	1	0	21.60	-3.13	18.47	<=33.01	Pass
				25	22.14	-3.13	19.01	<=33.01	Pass
	49			21.88	-3.13	18.75	<=33.01	Pass	
	12		0	21.66	-3.13	18.53	<=33.01	Pass	
			19	22.13	-3.13	19.00	<=33.01	Pass	
			38	21.97	-3.13	18.84	<=33.01	Pass	
	27		0	20.67	-3.13	17.54	<=33.01	Pass	
	2593	1	0	22.39	-3.13	19.26	<=33.01	Pass	
			25	22.45	-3.13	19.32	<=33.01	Pass	
			49	22.77	-3.13	19.64	<=33.01	Pass	
		12	0	22.37	-3.13	19.24	<=33.01	Pass	
			19	22.55	-3.13	19.42	<=33.01	Pass	
			38	22.18	-3.13	19.05	<=33.01	Pass	
	27	0	21.33	-3.13	18.20	<=33.01	Pass		
	2685	1	0	22.49	-3.13	19.36	<=33.01	Pass	
			25	22.76	-3.13	19.63	<=33.01	Pass	
			49	22.48	-3.13	19.35	<=33.01	Pass	
		12	0	22.50	-3.13	19.37	<=33.01	Pass	
			19	22.82	-3.13	19.69	<=33.01	Pass	
			38	22.75	-3.13	19.62	<=33.01	Pass	
		27	23	21.90	-3.13	18.77	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	22.48	-3.13	19.35	<=33.01	Pass
			38	22.72	-3.13	19.59	<=33.01	Pass
			74	22.72	-3.13	19.59	<=33.01	Pass
		36	0	21.53	-3.13	18.40	<=33.01	Pass
			18	21.60	-3.13	18.47	<=33.01	Pass
			39	22.11	-3.13	18.98	<=33.01	Pass

		75	0	21.97	-3.13	18.84	<=33.01	Pass
	2593	1	0	23.69	-3.13	20.56	<=33.01	Pass
			38	23.23	-3.13	20.10	<=33.01	Pass
			74	23.49	-3.13	20.36	<=33.01	Pass
			0	22.75	-3.13	19.62	<=33.01	Pass
		36	18	22.54	-3.13	19.41	<=33.01	Pass
			39	22.72	-3.13	19.59	<=33.01	Pass
			75	0	22.44	-3.13	19.31	<=33.01
	2682.5	1	0	23.71	-3.13	20.58	<=33.01	Pass
			38	23.55	-3.13	20.42	<=33.01	Pass
			74	23.59	-3.13	20.46	<=33.01	Pass
		36	0	22.74	-3.13	19.61	<=33.01	Pass
			18	22.65	-3.13	19.52	<=33.01	Pass
			39	22.90	-3.13	19.77	<=33.01	Pass
		75	0	22.79	-3.13	19.66	<=33.01	Pass
	16QAM	2503.5	1	0	21.45	-3.13	18.32	<=33.01
38				22.00	-3.13	18.87	<=33.01	Pass
74				21.51	-3.13	18.38	<=33.01	Pass
12			0	21.35	-3.13	18.22	<=33.01	Pass
			31	21.85	-3.13	18.72	<=33.01	Pass
			63	21.93	-3.13	18.80	<=33.01	Pass
			27	0	20.43	-3.13	17.30	<=33.01
2593		1	0	22.42	-3.13	19.29	<=33.01	Pass
			38	22.25	-3.13	19.12	<=33.01	Pass
			74	22.48	-3.13	19.35	<=33.01	Pass
		12	0	22.89	-3.13	19.76	<=33.01	Pass
			31	22.49	-3.13	19.36	<=33.01	Pass
			63	22.67	-3.13	19.54	<=33.01	Pass
27		0	21.84	-3.13	18.71	<=33.01	Pass	
2682.5		1	0	22.58	-3.13	19.45	<=33.01	Pass
			38	22.56	-3.13	19.43	<=33.01	Pass
			74	22.53	-3.13	19.40	<=33.01	Pass
		12	0	22.63	-3.13	19.50	<=33.01	Pass
			31	22.63	-3.13	19.50	<=33.01	Pass
			63	22.69	-3.13	19.56	<=33.01	Pass
27	48	21.91	-3.13	18.78	<=33.01	Pass		
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B41_20MHz_EIRP

Band: 41 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2506	1	0	22.54	-3.13	19.41	<=33.01	Pass
			50	23.18	-3.13	20.05	<=33.01	Pass
			99	22.76	-3.13	19.63	<=33.01	Pass
		50	0	21.72	-3.13	18.59	<=33.01	Pass
			25	21.91	-3.13	18.78	<=33.01	Pass
			50	21.87	-3.13	18.74	<=33.01	Pass
		100	0	21.94	-3.13	18.81	<=33.01	Pass
		1	0	22.37	-3.13	19.24	<=33.01	Pass
			50	22.35	-3.13	19.22	<=33.01	Pass
			99	22.33	-3.13	19.20	<=33.01	Pass
	2593	50	0	22.32	-3.13	19.19	<=33.01	Pass
			25	22.39	-3.13	19.26	<=33.01	Pass
			50	22.38	-3.13	19.25	<=33.01	Pass
		100	0	22.40	-3.13	19.27	<=33.01	Pass

	2680	1	0	23.71	-3.13	20.58	<=33.01	Pass		
			50	23.71	-3.13	20.58	<=33.01	Pass		
			99	23.47	-3.13	20.34	<=33.01	Pass		
		50	0	22.67	-3.13	19.54	<=33.01	Pass		
			25	22.55	-3.13	19.42	<=33.01	Pass		
			50	23.21	-3.13	20.08	<=33.01	Pass		
		100	0	22.63	-3.13	19.50	<=33.01	Pass		
		16QAM	2506	1	0	21.85	-3.13	18.72	<=33.01	Pass
					50	22.00	-3.13	18.87	<=33.01	Pass
99	21.97				-3.13	18.84	<=33.01	Pass		
12	0			21.95	-3.13	18.82	<=33.01	Pass		
	44			21.87	-3.13	18.74	<=33.01	Pass		
	88			21.97	-3.13	18.84	<=33.01	Pass		
27	0			22.01	-3.13	18.88	<=33.01	Pass		
2593	1			0	22.48	-3.13	19.35	<=33.01	Pass	
				50	22.39	-3.13	19.26	<=33.01	Pass	
			99	22.84	-3.13	19.71	<=33.01	Pass		
	12		0	22.59	-3.13	19.46	<=33.01	Pass		
			44	22.61	-3.13	19.48	<=33.01	Pass		
			88	22.31	-3.13	19.18	<=33.01	Pass		
	27		0	21.71	-3.13	18.58	<=33.01	Pass		
	2680		1	0	23.00	-3.13	19.87	<=33.01	Pass	
				50	22.56	-3.13	19.43	<=33.01	Pass	
99				22.36	-3.13	19.23	<=33.01	Pass		
12			0	22.72	-3.13	19.59	<=33.01	Pass		
			44	22.74	-3.13	19.61	<=33.01	Pass		
			88	22.66	-3.13	19.53	<=33.01	Pass		
27			73	21.88	-3.13	18.75	<=33.01	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	10.8	7.339	0.0029	-2.5 to 2.5	Pass
					12	6.566	0.0026	-2.5 to 2.5	Pass
					19.8	4.978	0.0020	-2.5 to 2.5	Pass
				-30	12	3.705	0.0015	-2.5 to 2.5	Pass
				-20	12	-2.432	-0.0010	-2.5 to 2.5	Pass
				-10	12	2.103	0.0008	-2.5 to 2.5	Pass
				0	12	-0.916	-0.0004	-2.5 to 2.5	Pass
				10	12	2.074	0.0008	-2.5 to 2.5	Pass
				30	12	-2.632	-0.0011	-2.5 to 2.5	Pass
				40	12	-2.189	-0.0009	-2.5 to 2.5	Pass
				50	12	-2.131	-0.0009	-2.5 to 2.5	Pass
	2593	25	0	20	10.8	-0.629	-0.0002	-2.5 to 2.5	Pass
					12	-2.332	-0.0009	-2.5 to 2.5	Pass
					19.8	2.432	0.0009	-2.5 to 2.5	Pass
				-30	12	1.888	0.0007	-2.5 to 2.5	Pass
				-20	12	-1.574	-0.0006	-2.5 to 2.5	Pass
				-10	12	-0.672	-0.0003	-2.5 to 2.5	Pass

				0	12	1.845	0.0007	-2.5 to 2.5	Pass
				10	12	2.675	0.0010	-2.5 to 2.5	Pass
				30	12	-0.758	-0.0003	-2.5 to 2.5	Pass
				40	12	2.761	0.0011	-2.5 to 2.5	Pass
				50	12	0.257	0.0001	-2.5 to 2.5	Pass
	2687.5	25	0	20	10.8	4.191	0.0016	-2.5 to 2.5	Pass
					12	3.977	0.0015	-2.5 to 2.5	Pass
					19.8	2.117	0.0008	-2.5 to 2.5	Pass
				-30	12	5.136	0.0019	-2.5 to 2.5	Pass
				-20	12	4.048	0.0015	-2.5 to 2.5	Pass
				-10	12	3.891	0.0014	-2.5 to 2.5	Pass
				0	12	-0.358	-0.0001	-2.5 to 2.5	Pass
				10	12	0.272	0.0001	-2.5 to 2.5	Pass
				30	12	3.662	0.0014	-2.5 to 2.5	Pass
				40	12	0.515	0.0002	-2.5 to 2.5	Pass
				50	12	4.120	0.0015	-2.5 to 2.5	Pass
16QAM	2498.5	25	0	20	10.8	2.332	0.0009	-2.5 to 2.5	Pass
					12	-3.390	-0.0014	-2.5 to 2.5	Pass
					19.8	8.383	0.0034	-2.5 to 2.5	Pass
				-30	12	-1.216	-0.0005	-2.5 to 2.5	Pass
				-20	12	4.406	0.0018	-2.5 to 2.5	Pass
				-10	12	4.334	0.0017	-2.5 to 2.5	Pass
				0	12	2.403	0.0010	-2.5 to 2.5	Pass
				10	12	-1.903	-0.0008	-2.5 to 2.5	Pass
				30	12	2.403	0.0010	-2.5 to 2.5	Pass
				40	12	-2.232	-0.0009	-2.5 to 2.5	Pass
				50	12	-1.173	-0.0005	-2.5 to 2.5	Pass
	2593	25	0	20	10.8	-5.136	-0.0020	-2.5 to 2.5	Pass
					12	3.877	0.0015	-2.5 to 2.5	Pass
					19.8	3.877	0.0015	-2.5 to 2.5	Pass
				-30	12	2.103	0.0008	-2.5 to 2.5	Pass
				-20	12	-2.546	-0.0010	-2.5 to 2.5	Pass
				-10	12	2.632	0.0010	-2.5 to 2.5	Pass
				0	12	-0.200	-0.0001	-2.5 to 2.5	Pass
				10	12	-1.960	-0.0008	-2.5 to 2.5	Pass
				30	12	3.061	0.0012	-2.5 to 2.5	Pass
				40	12	14.362	0.0055	-2.5 to 2.5	Pass
				50	12	1.888	0.0007	-2.5 to 2.5	Pass
	2687.5	25	0	20	10.8	0.587	0.0002	-2.5 to 2.5	Pass
					12	-0.658	-0.0002	-2.5 to 2.5	Pass
					19.8	3.805	0.0014	-2.5 to 2.5	Pass
				-30	12	-2.089	-0.0008	-2.5 to 2.5	Pass
				-20	12	1.187	0.0004	-2.5 to 2.5	Pass
				-10	12	1.602	0.0006	-2.5 to 2.5	Pass
				0	12	-2.704	-0.0010	-2.5 to 2.5	Pass
				10	12	2.789	0.0010	-2.5 to 2.5	Pass
				30	12	-2.117	-0.0008	-2.5 to 2.5	Pass
				40	12	0.916	0.0003	-2.5 to 2.5	Pass
				50	12	5.178	0.0019	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	10.8	10.271	0.0041	-2.5 to 2.5	Pass
					12	3.033	0.0012	-2.5 to 2.5	Pass

					19.8	0.529	0.0002	-2.5 to 2.5	Pass	
				-30	12	8.669	0.0035	-2.5 to 2.5	Pass	
				-20	12	-0.358	-0.0001	-2.5 to 2.5	Pass	
				-10	12	0.272	0.0001	-2.5 to 2.5	Pass	
				0	12	3.390	0.0014	-2.5 to 2.5	Pass	
				10	12	0.300	0.0001	-2.5 to 2.5	Pass	
				30	12	-1.116	-0.0004	-2.5 to 2.5	Pass	
				40	12	-2.003	-0.0008	-2.5 to 2.5	Pass	
	50	12	-1.774	-0.0007	-2.5 to 2.5	Pass				
	2593	50	0	20	10.8	-2.489	-0.0010	-2.5 to 2.5	Pass	
					12	28.825	0.0111	-2.5 to 2.5	Pass	
					19.8	5.779	0.0022	-2.5 to 2.5	Pass	
				-30	12	-1.016	-0.0004	-2.5 to 2.5	Pass	
				-20	12	2.675	0.0010	-2.5 to 2.5	Pass	
				-10	12	-3.190	-0.0012	-2.5 to 2.5	Pass	
				0	12	-1.488	-0.0006	-2.5 to 2.5	Pass	
				10	12	-1.445	-0.0006	-2.5 to 2.5	Pass	
				30	12	-0.987	-0.0004	-2.5 to 2.5	Pass	
				40	12	-1.616	-0.0006	-2.5 to 2.5	Pass	
	50	12	1.330	0.0005	-2.5 to 2.5	Pass				
	2685	50	0	20	10.8	0.629	0.0002	-2.5 to 2.5	Pass	
					12	4.735	0.0018	-2.5 to 2.5	Pass	
					19.8	1.917	0.0007	-2.5 to 2.5	Pass	
				-30	12	3.591	0.0013	-2.5 to 2.5	Pass	
				-20	12	1.674	0.0006	-2.5 to 2.5	Pass	
				-10	12	1.831	0.0007	-2.5 to 2.5	Pass	
				0	12	0.486	0.0002	-2.5 to 2.5	Pass	
				10	12	5.722	0.0021	-2.5 to 2.5	Pass	
				30	12	4.950	0.0018	-2.5 to 2.5	Pass	
				40	12	3.290	0.0012	-2.5 to 2.5	Pass	
	50	12	2.446	0.0009	-2.5 to 2.5	Pass				
	16QAM	2501	27	0	20	10.8	0.229	0.0001	-2.5 to 2.5	Pass
						12	-1.044	-0.0004	-2.5 to 2.5	Pass
						19.8	-1.116	-0.0004	-2.5 to 2.5	Pass
					-30	12	-1.802	-0.0007	-2.5 to 2.5	Pass
					-20	12	3.061	0.0012	-2.5 to 2.5	Pass
-10					12	-1.359	-0.0005	-2.5 to 2.5	Pass	
0					12	1.960	0.0008	-2.5 to 2.5	Pass	
10					12	-3.705	-0.0015	-2.5 to 2.5	Pass	
30					12	-2.160	-0.0009	-2.5 to 2.5	Pass	
40					12	4.292	0.0017	-2.5 to 2.5	Pass	
50					12	1.588	0.0006	-2.5 to 2.5	Pass	
2593		27	0	20	10.8	-2.003	-0.0008	-2.5 to 2.5	Pass	
					12	2.818	0.0011	-2.5 to 2.5	Pass	
					19.8	2.074	0.0008	-2.5 to 2.5	Pass	
				-30	12	3.390	0.0013	-2.5 to 2.5	Pass	
				-20	12	-5.851	-0.0023	-2.5 to 2.5	Pass	
				-10	12	-1.960	-0.0008	-2.5 to 2.5	Pass	
				0	12	-1.459	-0.0006	-2.5 to 2.5	Pass	
				10	12	2.804	0.0011	-2.5 to 2.5	Pass	
				30	12	-3.376	-0.0013	-2.5 to 2.5	Pass	
				40	12	-2.689	-0.0010	-2.5 to 2.5	Pass	
				50	12	-2.503	-0.0010	-2.5 to 2.5	Pass	
2685		27	23	20	10.8	-0.887	-0.0003	-2.5 to 2.5	Pass	
					12	0.229	0.0001	-2.5 to 2.5	Pass	
					19.8	0.143	0.0001	-2.5 to 2.5	Pass	
				-30	12	1.073	0.0004	-2.5 to 2.5	Pass	
				-20	12	3.004	0.0011	-2.5 to 2.5	Pass	
				-10	12	1.302	0.0005	-2.5 to 2.5	Pass	

				0	12	1.230	0.0005	-2.5 to 2.5	Pass
				10	12	-1.330	-0.0005	-2.5 to 2.5	Pass
				30	12	1.316	0.0005	-2.5 to 2.5	Pass
				40	12	3.376	0.0013	-2.5 to 2.5	Pass
				50	12	-3.562	-0.0013	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	10.8	6.738	0.0027	-2.5 to 2.5	Pass
					12	-1.144	-0.0005	-2.5 to 2.5	Pass
					19.8	-0.901	-0.0004	-2.5 to 2.5	Pass
				-30	12	7.954	0.0032	-2.5 to 2.5	Pass
				-20	12	0.916	0.0004	-2.5 to 2.5	Pass
				-10	12	4.849	0.0019	-2.5 to 2.5	Pass
				0	12	0.257	0.0001	-2.5 to 2.5	Pass
				10	12	-2.561	-0.0010	-2.5 to 2.5	Pass
				30	12	-8.111	-0.0032	-2.5 to 2.5	Pass
				40	12	-0.601	-0.0002	-2.5 to 2.5	Pass
				50	12	-2.618	-0.0010	-2.5 to 2.5	Pass
	2593	75	0	20	10.8	4.234	0.0016	-2.5 to 2.5	Pass
					12	-2.618	-0.0010	-2.5 to 2.5	Pass
					19.8	-0.830	-0.0003	-2.5 to 2.5	Pass
				-30	12	-1.431	-0.0006	-2.5 to 2.5	Pass
				-20	12	12.746	0.0049	-2.5 to 2.5	Pass
				-10	12	1.144	0.0004	-2.5 to 2.5	Pass
				0	12	-0.257	-0.0001	-2.5 to 2.5	Pass
				10	12	0.658	0.0003	-2.5 to 2.5	Pass
				30	12	-2.632	-0.0010	-2.5 to 2.5	Pass
				40	12	-0.544	-0.0002	-2.5 to 2.5	Pass
				50	12	-1.345	-0.0005	-2.5 to 2.5	Pass
	2682.5	75	0	20	10.8	3.719	0.0014	-2.5 to 2.5	Pass
					12	1.631	0.0006	-2.5 to 2.5	Pass
					19.8	-1.073	-0.0004	-2.5 to 2.5	Pass
				-30	12	-2.146	-0.0008	-2.5 to 2.5	Pass
				-20	12	-0.973	-0.0004	-2.5 to 2.5	Pass
				-10	12	9.742	0.0036	-2.5 to 2.5	Pass
				0	12	5.608	0.0021	-2.5 to 2.5	Pass
				10	12	-1.874	-0.0007	-2.5 to 2.5	Pass
				30	12	1.860	0.0007	-2.5 to 2.5	Pass
				40	12	-1.845	-0.0007	-2.5 to 2.5	Pass
16QAM	2503.5	27	0	20	10.8	2.861	0.0011	-2.5 to 2.5	Pass
					12	-3.262	-0.0013	-2.5 to 2.5	Pass
					19.8	-3.676	-0.0015	-2.5 to 2.5	Pass
				-30	12	2.460	0.0010	-2.5 to 2.5	Pass
				-20	12	1.574	0.0006	-2.5 to 2.5	Pass
				-10	12	2.775	0.0011	-2.5 to 2.5	Pass
				0	12	2.174	0.0009	-2.5 to 2.5	Pass
				10	12	-4.678	-0.0019	-2.5 to 2.5	Pass
				30	12	-2.060	-0.0008	-2.5 to 2.5	Pass
				40	12	-1.559	-0.0006	-2.5 to 2.5	Pass
				50	12	2.546	0.0010	-2.5 to 2.5	Pass
	2593	27	0	20	10.8	3.777	0.0015	-2.5 to 2.5	Pass
					12	2.232	0.0009	-2.5 to 2.5	Pass

					19.8	2.546	0.0010	-2.5 to 2.5	Pass
				-30	12	4.120	0.0016	-2.5 to 2.5	Pass
				-20	12	-1.974	-0.0008	-2.5 to 2.5	Pass
				-10	12	-2.232	-0.0009	-2.5 to 2.5	Pass
				0	12	2.589	0.0010	-2.5 to 2.5	Pass
				10	12	2.189	0.0008	-2.5 to 2.5	Pass
				30	12	3.762	0.0015	-2.5 to 2.5	Pass
				40	12	2.918	0.0011	-2.5 to 2.5	Pass
				50	12	-3.033	-0.0012	-2.5 to 2.5	Pass
	2682.5	27	48	20	10.8	0.887	0.0003	-2.5 to 2.5	Pass
					12	2.947	0.0011	-2.5 to 2.5	Pass
					19.8	0.243	0.0001	-2.5 to 2.5	Pass
				-30	12	1.988	0.0007	-2.5 to 2.5	Pass
				-20	12	3.204	0.0012	-2.5 to 2.5	Pass
				-10	12	3.190	0.0012	-2.5 to 2.5	Pass
				0	12	1.559	0.0006	-2.5 to 2.5	Pass
				10	12	2.532	0.0009	-2.5 to 2.5	Pass
				30	12	1.731	0.0006	-2.5 to 2.5	Pass
				40	12	3.219	0.0012	-2.5 to 2.5	Pass
				50	12	-1.087	-0.0004	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	10.8	3.262	0.0013	-2.5 to 2.5	Pass
					12	1.187	0.0005	-2.5 to 2.5	Pass
					19.8	-4.106	-0.0016	-2.5 to 2.5	Pass
				-30	12	2.904	0.0012	-2.5 to 2.5	Pass
				-20	12	8.926	0.0036	-2.5 to 2.5	Pass
				-10	12	1.802	0.0007	-2.5 to 2.5	Pass
				0	12	-2.332	-0.0009	-2.5 to 2.5	Pass
				10	12	2.375	0.0009	-2.5 to 2.5	Pass
				30	12	5.493	0.0022	-2.5 to 2.5	Pass
				40	12	3.176	0.0013	-2.5 to 2.5	Pass
				50	12	2.432	0.0010	-2.5 to 2.5	Pass
	2593	100	0	20	10.8	3.648	0.0014	-2.5 to 2.5	Pass
					12	-2.460	-0.0009	-2.5 to 2.5	Pass
					19.8	10.042	0.0039	-2.5 to 2.5	Pass
				-30	12	-0.114	0.0000	-2.5 to 2.5	Pass
				-20	12	-0.687	-0.0003	-2.5 to 2.5	Pass
				-10	12	-0.587	-0.0002	-2.5 to 2.5	Pass
				0	12	0.257	0.0001	-2.5 to 2.5	Pass
				10	12	1.245	0.0005	-2.5 to 2.5	Pass
				30	12	3.662	0.0014	-2.5 to 2.5	Pass
				40	12	-2.160	-0.0008	-2.5 to 2.5	Pass
				50	12	3.147	0.0012	-2.5 to 2.5	Pass
	2680	100	0	20	10.8	5.164	0.0019	-2.5 to 2.5	Pass
					12	5.465	0.0020	-2.5 to 2.5	Pass
					19.8	0.157	0.0001	-2.5 to 2.5	Pass
				-30	12	0.801	0.0003	-2.5 to 2.5	Pass
				-20	12	0.587	0.0002	-2.5 to 2.5	Pass
				-10	12	-0.844	-0.0003	-2.5 to 2.5	Pass
				0	12	5.121	0.0019	-2.5 to 2.5	Pass
				10	12	3.991	0.0015	-2.5 to 2.5	Pass
				30	12	-1.531	-0.0006	-2.5 to 2.5	Pass

16QAM	2506	27	0	40	12	2.146	0.0008	-2.5 to 2.5	Pass
				50	12	1.731	0.0006	-2.5 to 2.5	Pass
				20	10.8	-4.921	-0.0020	-2.5 to 2.5	Pass
					12	-4.978	-0.0020	-2.5 to 2.5	Pass
					19.8	3.462	0.0014	-2.5 to 2.5	Pass
				-30	12	-3.948	-0.0016	-2.5 to 2.5	Pass
				-20	12	3.734	0.0015	-2.5 to 2.5	Pass
				-10	12	2.303	0.0009	-2.5 to 2.5	Pass
				0	12	1.874	0.0007	-2.5 to 2.5	Pass
				10	12	1.688	0.0007	-2.5 to 2.5	Pass
	2593	27	0	30	12	-2.460	-0.0010	-2.5 to 2.5	Pass
				40	12	-1.702	-0.0007	-2.5 to 2.5	Pass
				50	12	1.574	0.0006	-2.5 to 2.5	Pass
				20	10.8	-3.018	-0.0012	-2.5 to 2.5	Pass
					12	-0.701	-0.0003	-2.5 to 2.5	Pass
					19.8	-1.845	-0.0007	-2.5 to 2.5	Pass
				-30	12	-3.676	-0.0014	-2.5 to 2.5	Pass
				-20	12	0.129	0.0000	-2.5 to 2.5	Pass
				-10	12	-0.858	-0.0003	-2.5 to 2.5	Pass
				0	12	1.016	0.0004	-2.5 to 2.5	Pass
	2680	27	73	10	12	2.360	0.0009	-2.5 to 2.5	Pass
				30	12	-0.229	-0.0001	-2.5 to 2.5	Pass
				40	12	2.146	0.0008	-2.5 to 2.5	Pass
				50	12	-3.705	-0.0014	-2.5 to 2.5	Pass
				20	10.8	0.358	0.0001	-2.5 to 2.5	Pass
					12	-2.046	-0.0008	-2.5 to 2.5	Pass
					19.8	-2.046	-0.0008	-2.5 to 2.5	Pass
				-30	12	-2.189	-0.0008	-2.5 to 2.5	Pass
				-20	12	1.531	0.0006	-2.5 to 2.5	Pass
				-10	12	-3.290	-0.0012	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	2593	25	0	Refer To Test Graph	
16QAM	2593	25	0	Refer To Test Graph	

3.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	2593	50	0	Refer To Test Graph	
16QAM	2593	27	0	Refer To Test Graph	

3.1.3 B41_15MHz

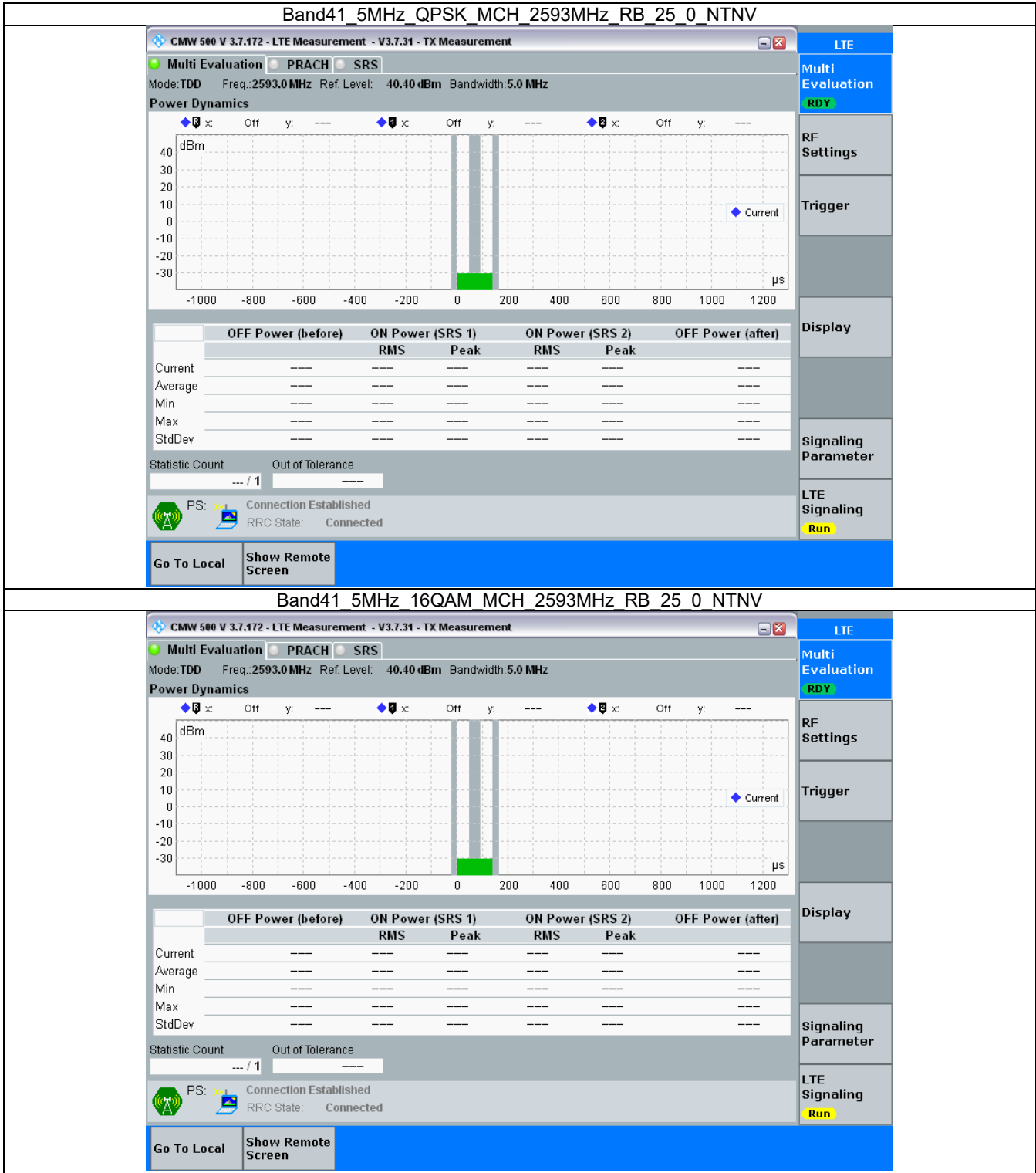
Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	75	0	Refer To Test Graph		Pass
16QAM	2593	27	0	Refer To Test Graph		Pass

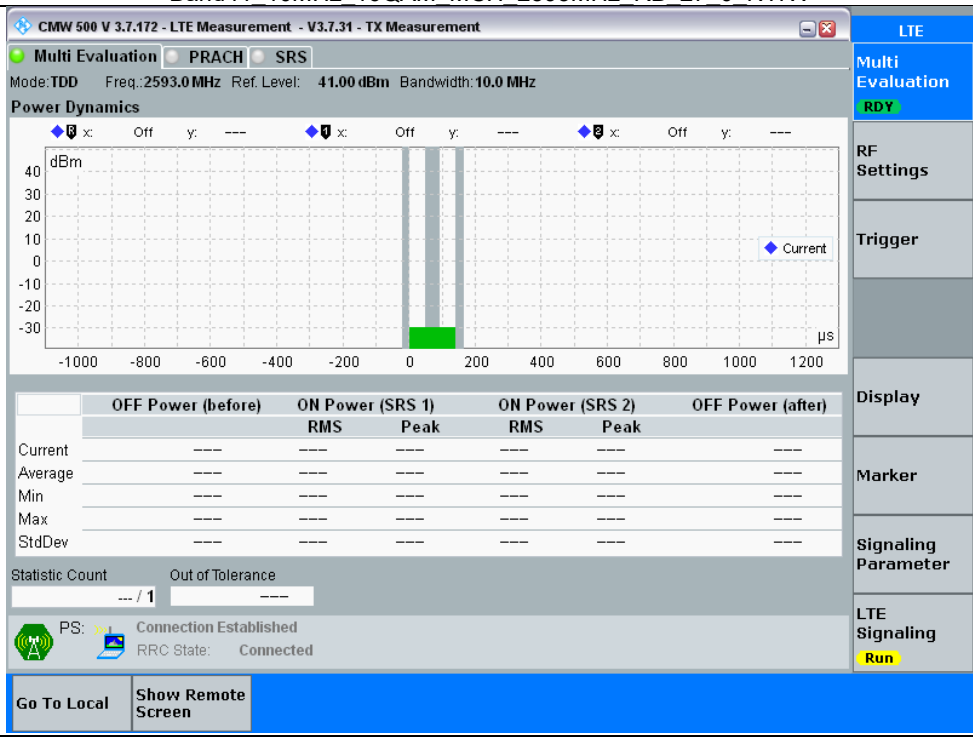
3.1.4 B41_20MHz

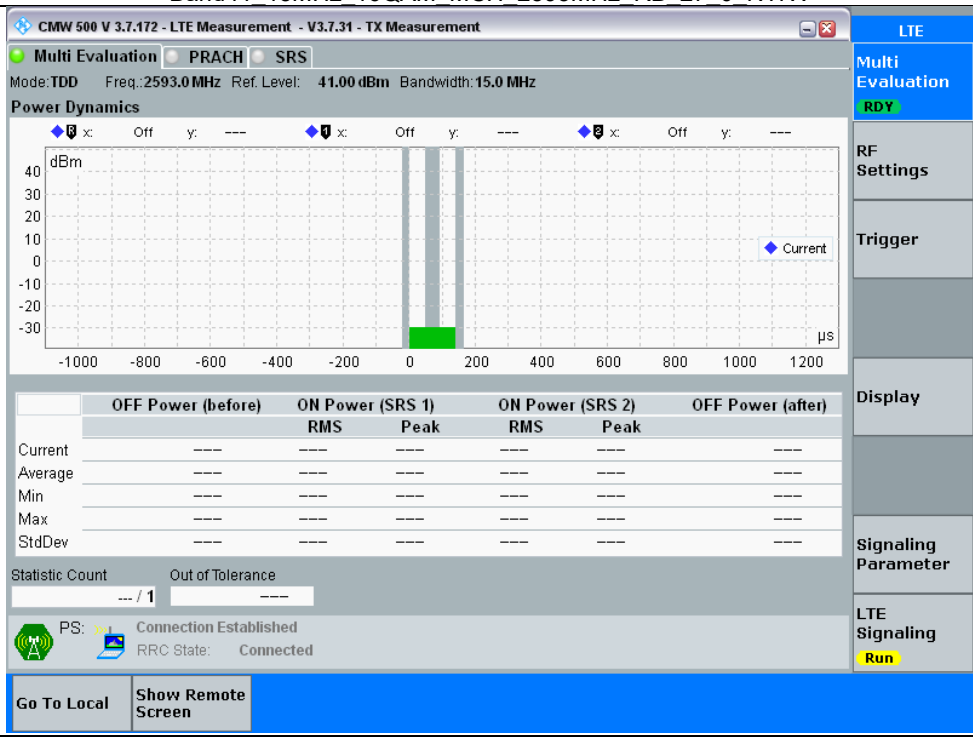
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2593	100	0	Refer To Test Graph		Pass
16QAM	2593	27	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B41_5MHz







3.2.4 B41_20MHz

Band41 20MHz QPSK MCH 2593MHz RB 100 0 NTNV

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi EvaluationPRACHSRS

Mode:TDD Freq.:2593.0 MHz Ref. Level: 40.50 dBm Bandwidth:20.0 MHz

Power Dynamics

Offy: ---

Offy: ---

Offy: ---

dBm

40

30

20

10

0

-10

-20

-30

Current

-1000

-800

-600

-400

-200

0

200

400

600

800

1000

1200

μs

	OFF Power (before)	ON Power (SRS 1)	ON Power (SRS 2)	OFF Power (after)
		RMSPeak	RMSPeak	
Current	---	---	---	---
Average	---	---	---	---
Min	---	---	---	---
Max	---	---	---	---
StdDev	---	---	---	---

Statistic Count Out of Tolerance
--- / 1 ---

PS: Connection Established
RRC State: Connected

Go To Local

Show Remote Screen

LTE

Multi EvaluationRDY

RF Settings

Trigger

Display

Signaling Parameter

LTE SignalingRun

Band41 20MHz 16QAM MCH 2593MHz RB 27 0 NTNV

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi EvaluationPRACHSRS

Mode:TDD Freq.:2593.0 MHz Ref. Level: 40.50 dBm Bandwidth:20.0 MHz

Power Dynamics

Offy: ---

Offy: ---

Offy: ---

dBm

40

30

20

10

0

-10

-20

-30

Current

-1000

-800

-600

-400

-200

0

200

400

600

800

1000

1200

μs

	OFF Power (before)	ON Power (SRS 1)	ON Power (SRS 2)	OFF Power (after)
		RMSPeak	RMSPeak	
Current	---	---	---	---
Average	---	---	---	---
Min	---	---	---	---
Max	---	---	---	---
StdDev	---	---	---	---

Statistic Count Out of Tolerance
--- / 1 ---

PS: Connection Established
RRC State: Connected

Go To Local

Show Remote Screen

LTE

Multi EvaluationRDY

RF Settings

Trigger

Display

Signaling Parameter

LTE SignalingRun

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band41_OBW

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.525	/	Pass
		2593	25	0	4.525	/	Pass
		2687.5	25	0	4.529	/	Pass
	16QAM	2498.5	25	0	4.523	/	Pass
		2593	25	0	4.520	/	Pass
		2687.5	25	0	4.515	/	Pass
10	QPSK	2501	50	0	9.017	/	Pass
		2593	50	0	9.011	/	Pass
		2685	50	0	9.029	/	Pass
	16QAM	2501	27	0	5.414	/	Pass
		2593	27	0	5.427	/	Pass
		2685	27	23	5.343	/	Pass
15	QPSK	2503.5	75	0	13.715	/	Pass
		2593	75	0	13.684	/	Pass
		2682.5	75	0	13.646	/	Pass
	16QAM	2503.5	27	0	6.356	/	Pass
		2593	27	0	6.147	/	Pass
		2682.5	27	48	8.987	/	Pass
20	QPSK	2506	100	0	18.154	/	Pass
		2593	100	0	18.165	/	Pass
		2680	100	0	18.139	/	Pass
	16QAM	2506	27	0	7.639	/	Pass
		2593	27	0	7.530	/	Pass
		2680	27	73	17.835	/	Pass

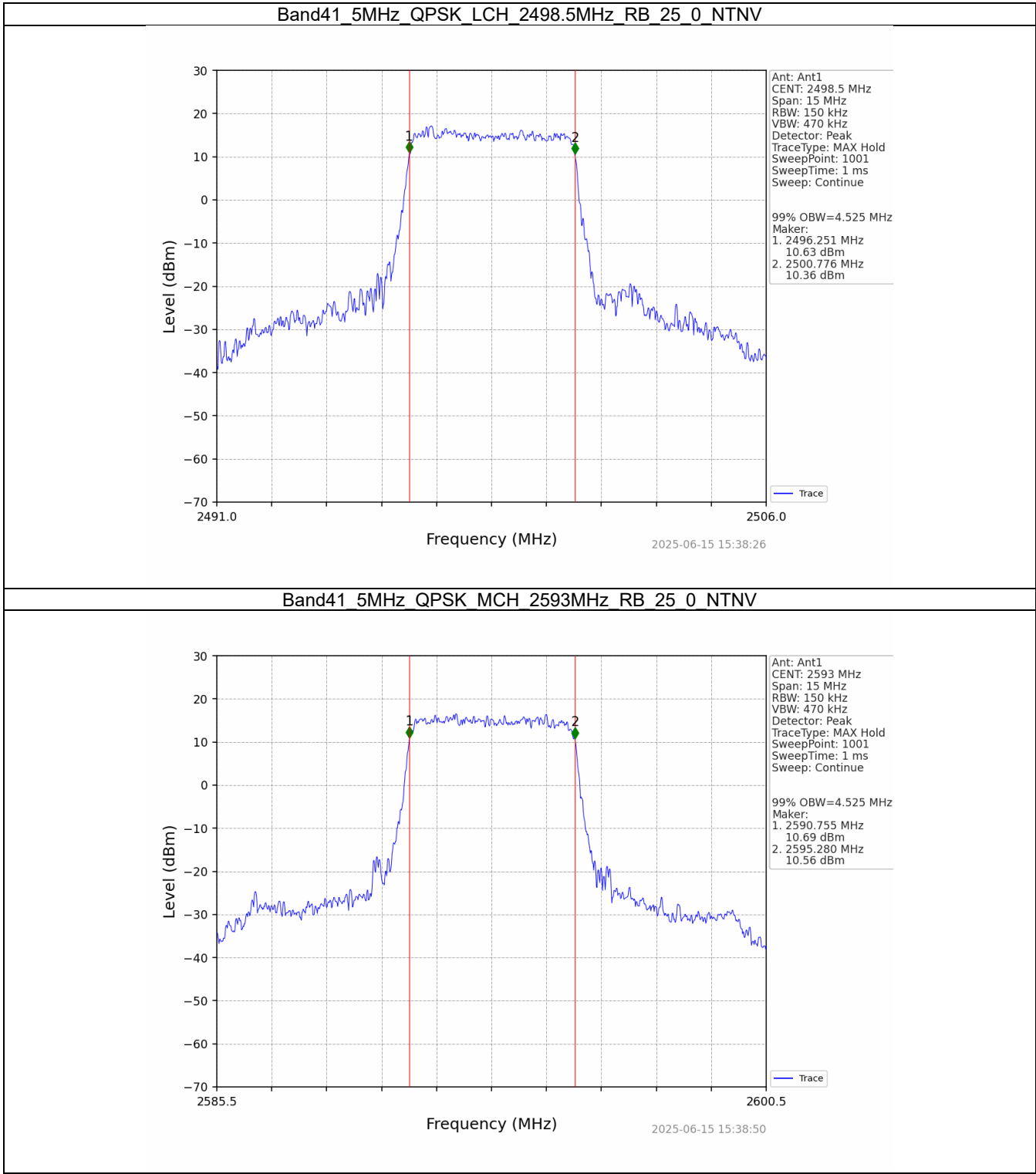
4.1.2 Band41_XDB

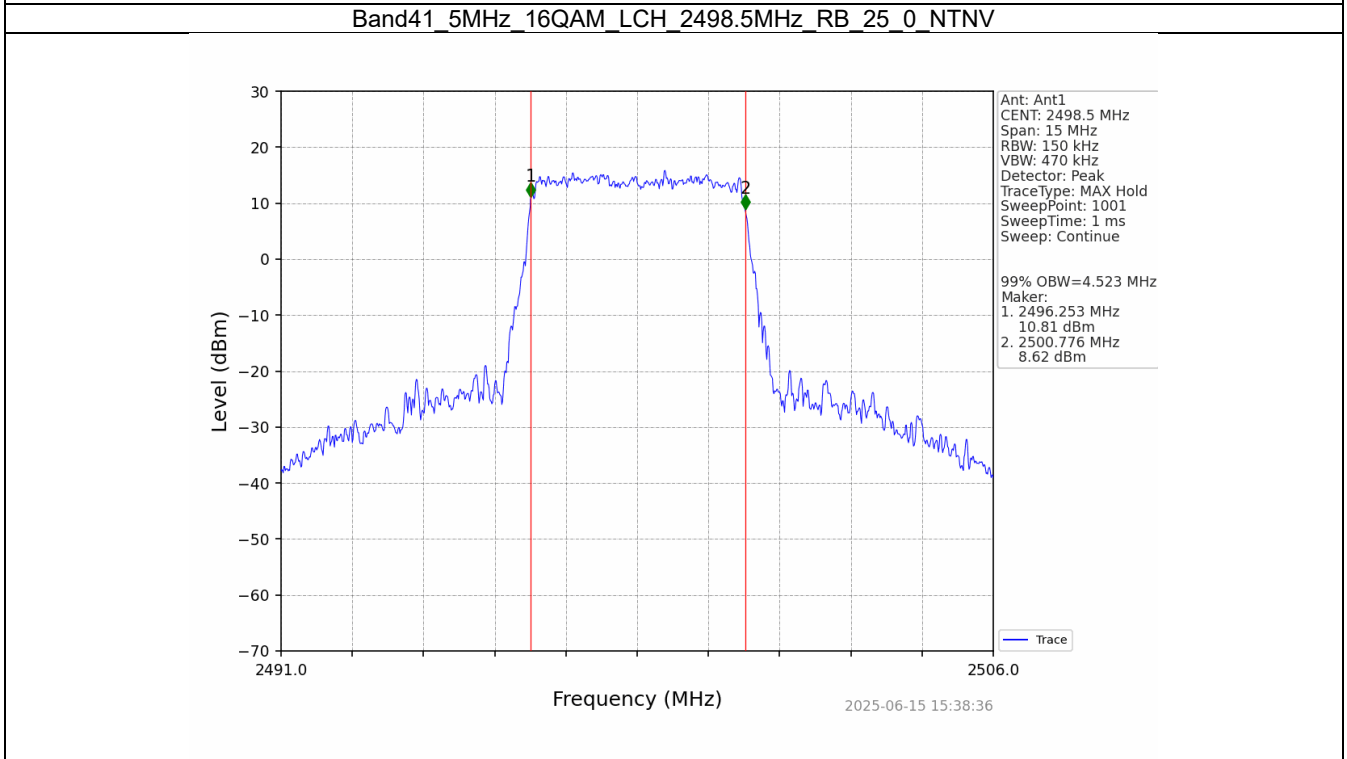
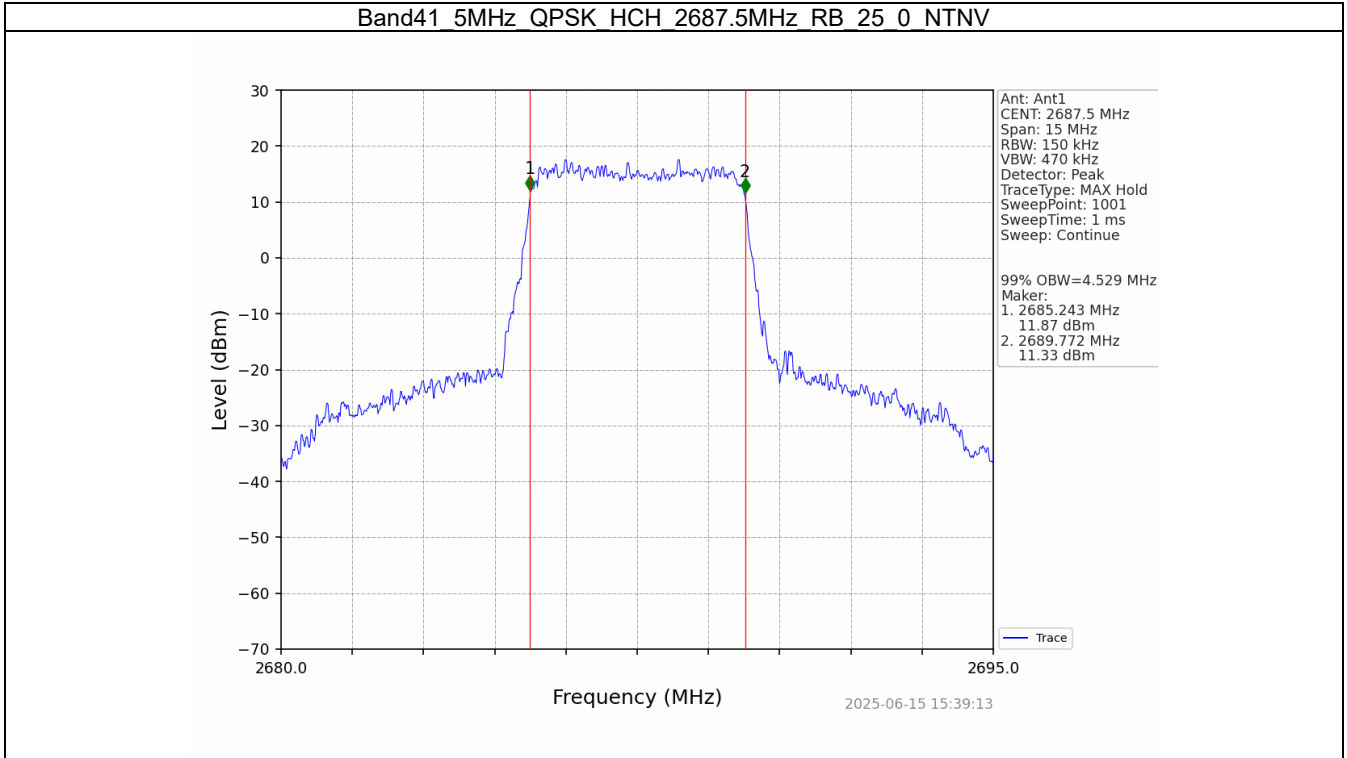
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.135	/	Pass
		2593	25	0	5.120	/	Pass
		2687.5	25	0	5.164	/	Pass
	16QAM	2498.5	25	0	5.211	/	Pass
		2593	25	0	5.176	/	Pass
		2687.5	25	0	5.199	/	Pass
10	QPSK	2501	50	0	9.810	/	Pass
		2593	50	0	9.945	/	Pass
		2685	50	0	9.810	/	Pass
	16QAM	2501	27	0	8.331	/	Pass
		2593	27	0	8.307	/	Pass
		2685	27	23	9.512	/	Pass
15	QPSK	2503.5	75	0	17.244	/	Pass
		2593	75	0	16.892	/	Pass
		2682.5	75	0	17.005	/	Pass

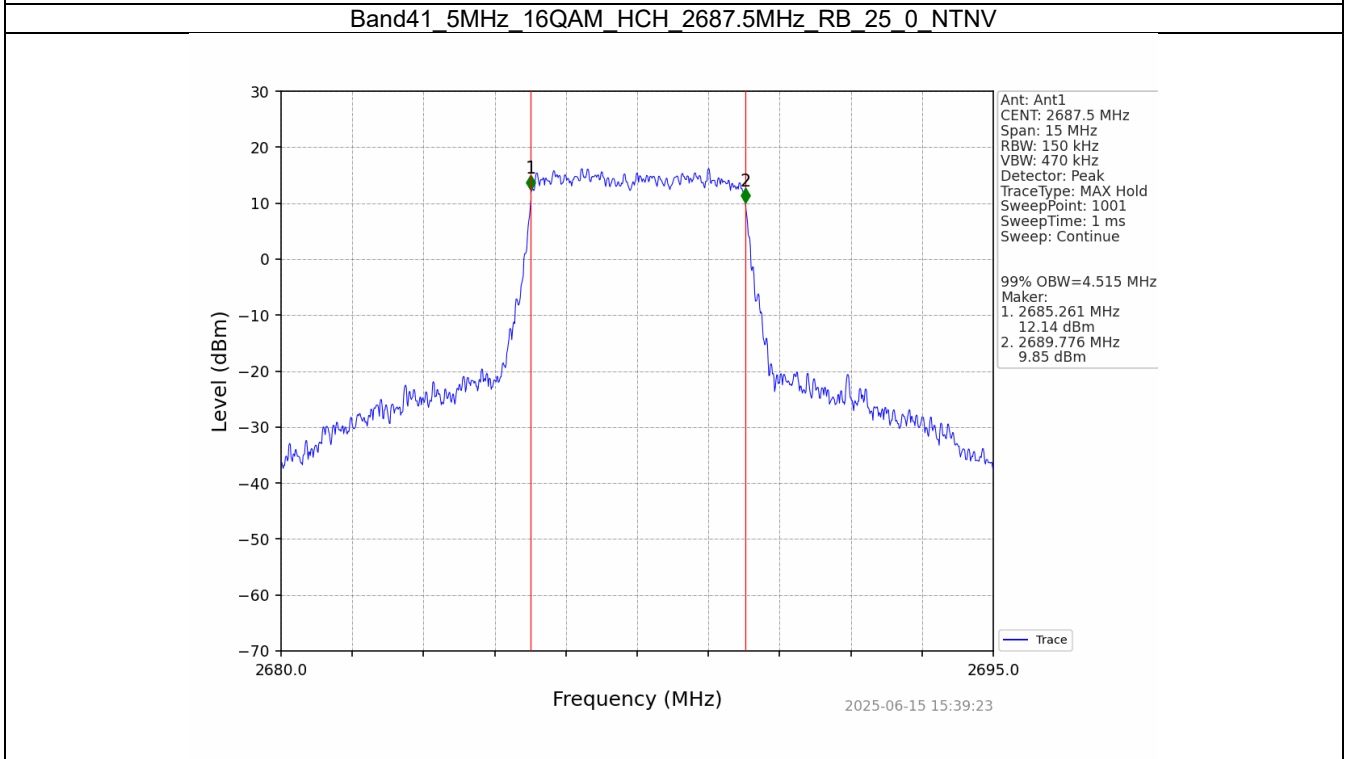
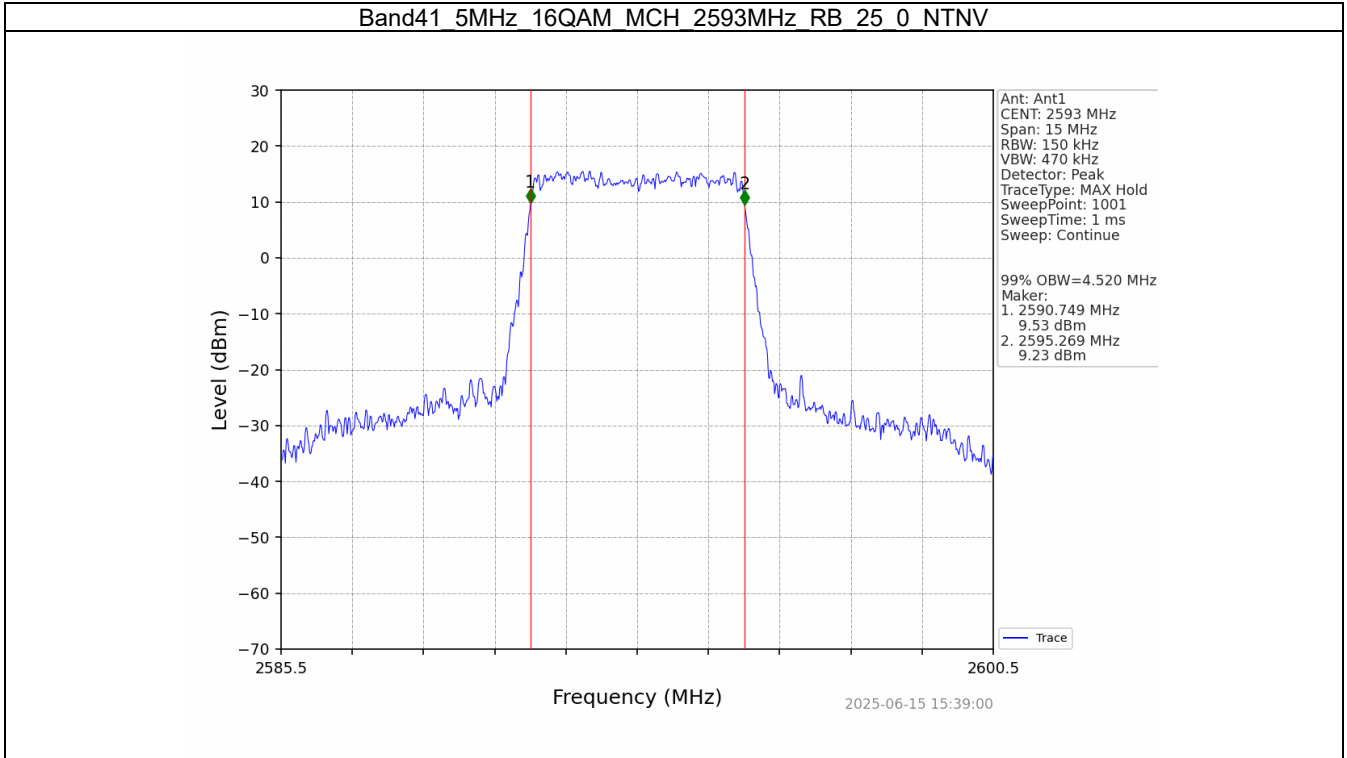
20	16QAM	2503.5	27	0	10.410	/	Pass
		2593	27	0	10.666	/	Pass
		2682.5	27	48	15.790	/	Pass
	QPSK	2506	100	0	21.570	/	Pass
		2593	100	0	21.471	/	Pass
		2680	100	0	21.440	/	Pass
	16QAM	2506	27	0	12.584	/	Pass
		2593	27	0	12.129	/	Pass
		2680	27	73	20.335	/	Pass

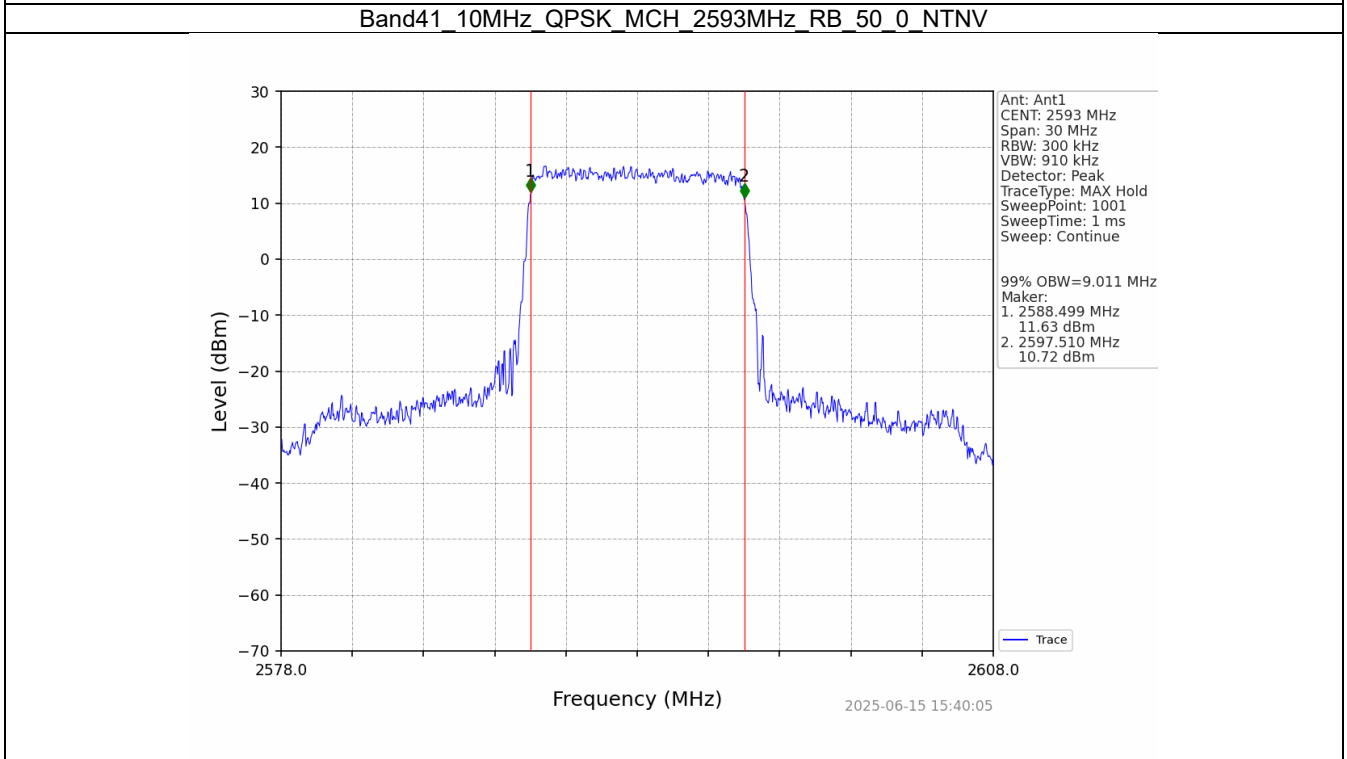
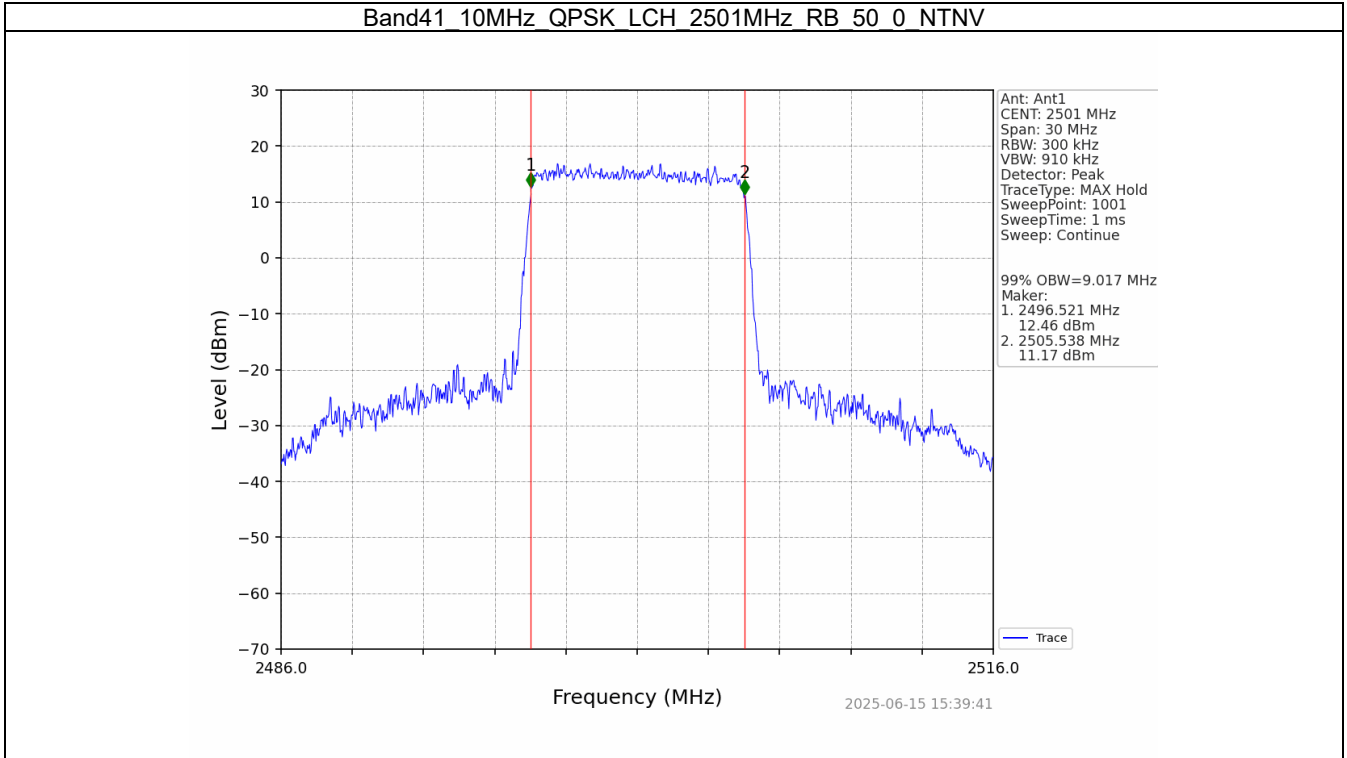
4.2 Test Graph

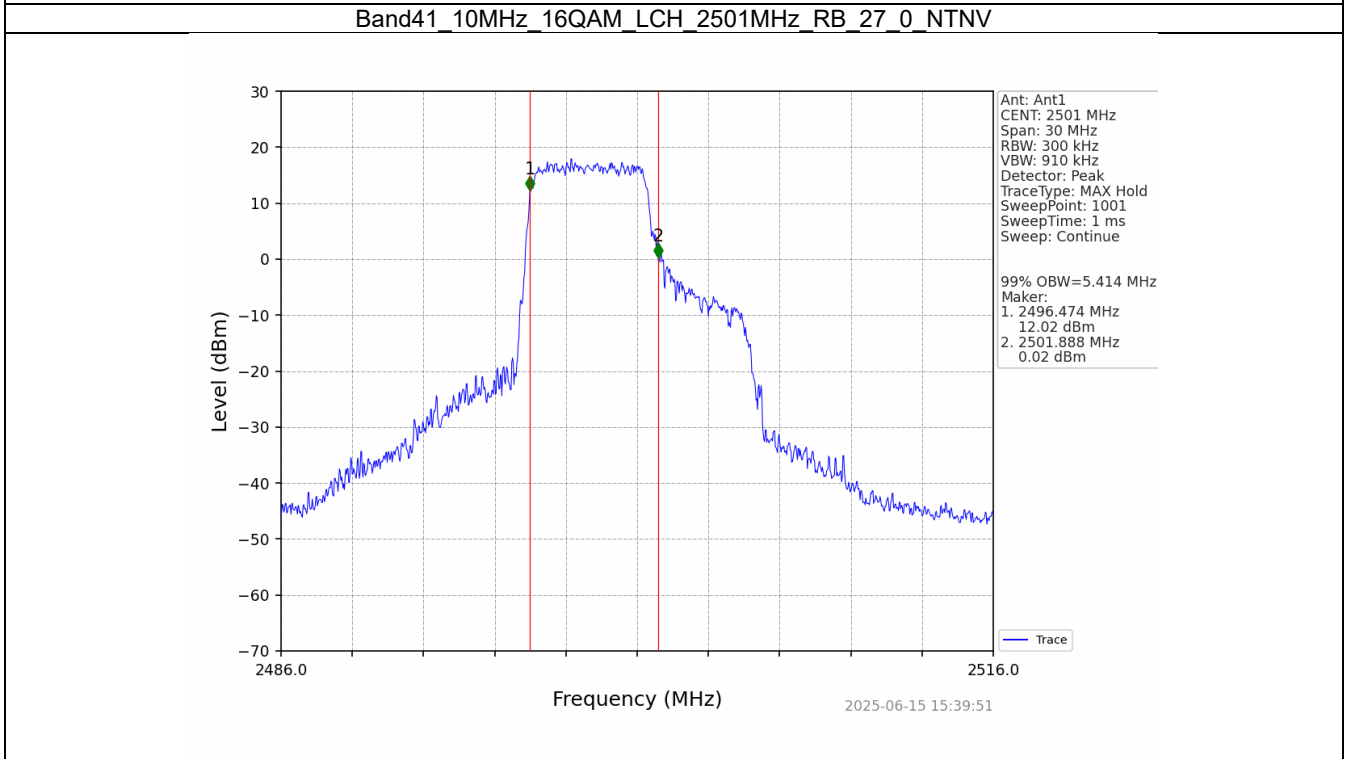
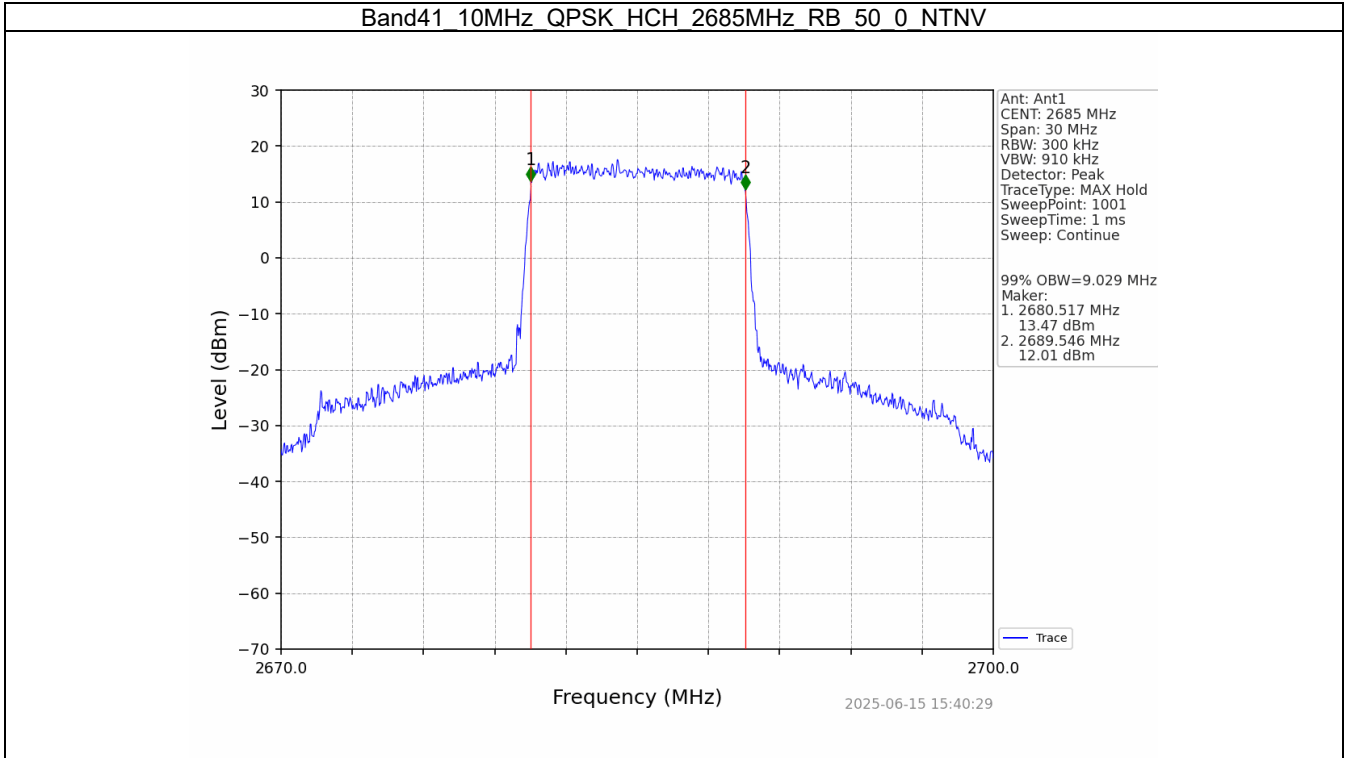
4.2.1 Band41_OBW

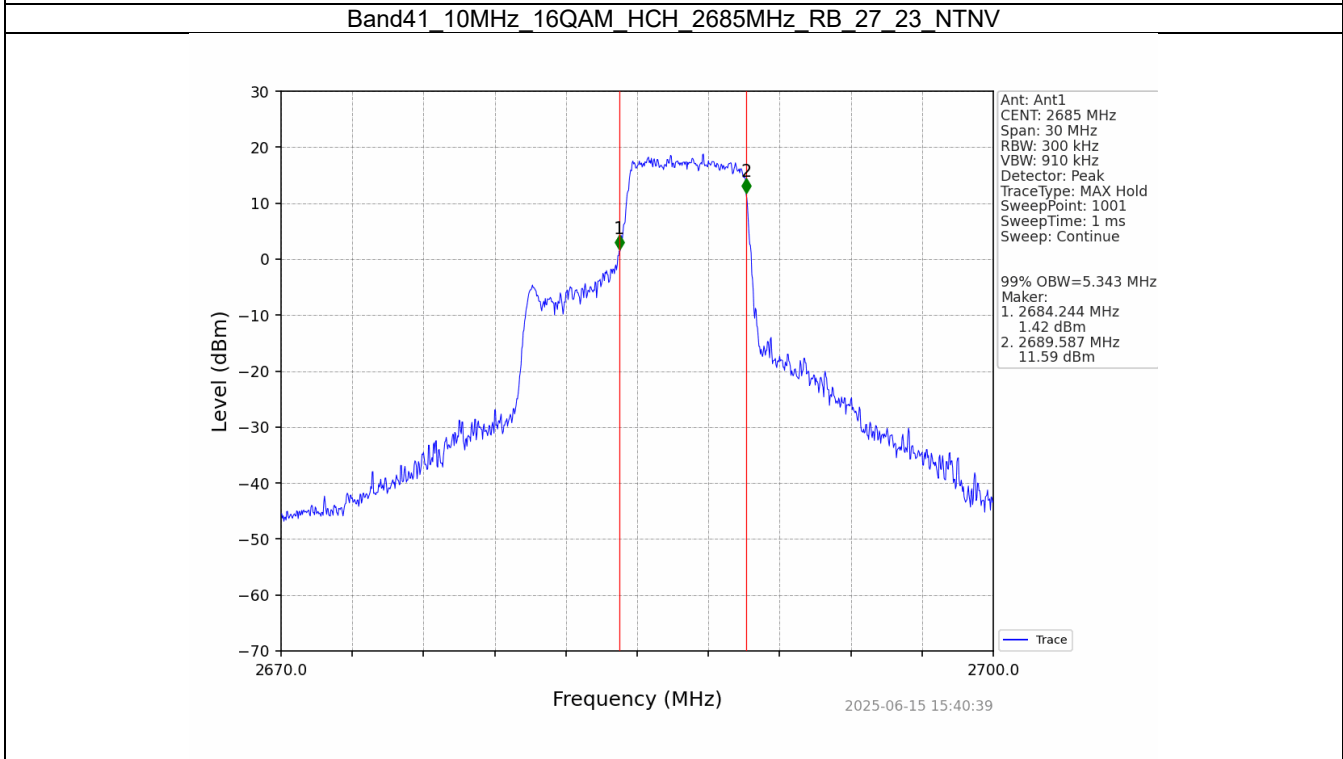
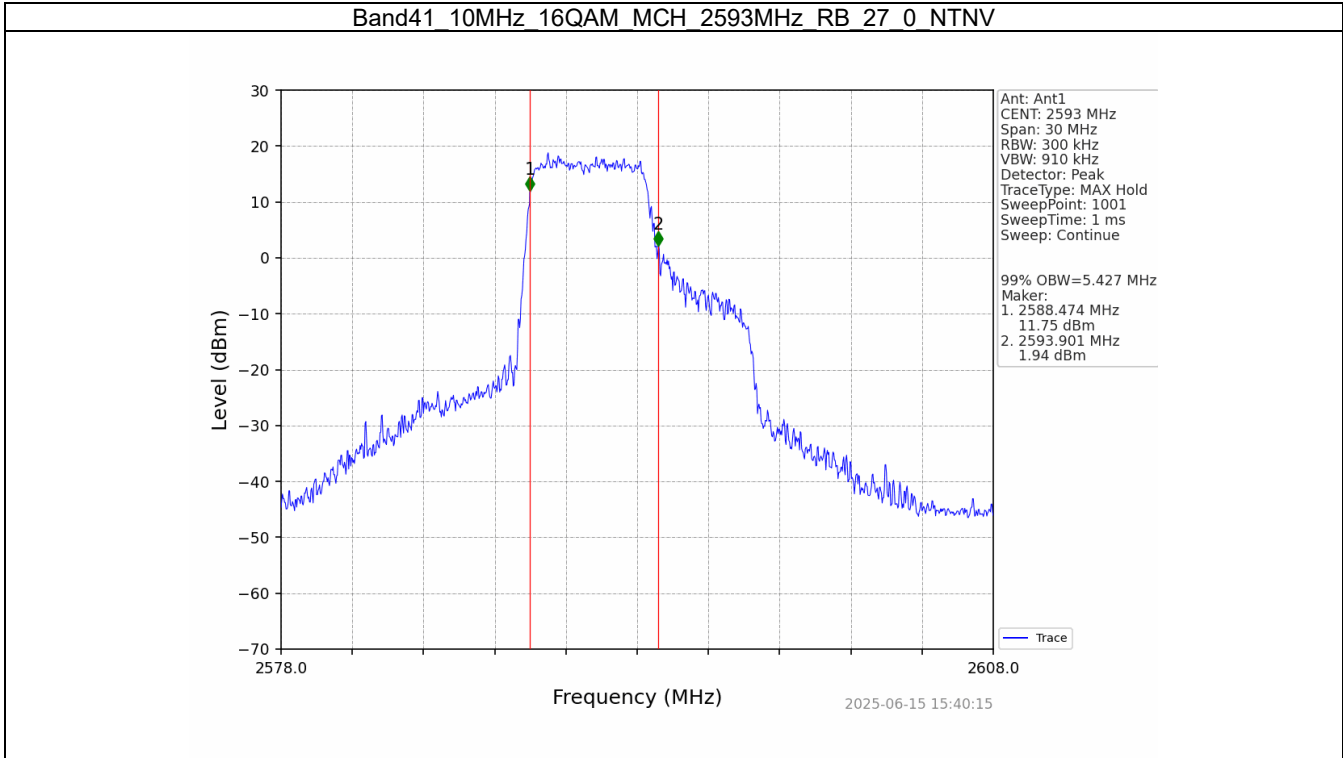


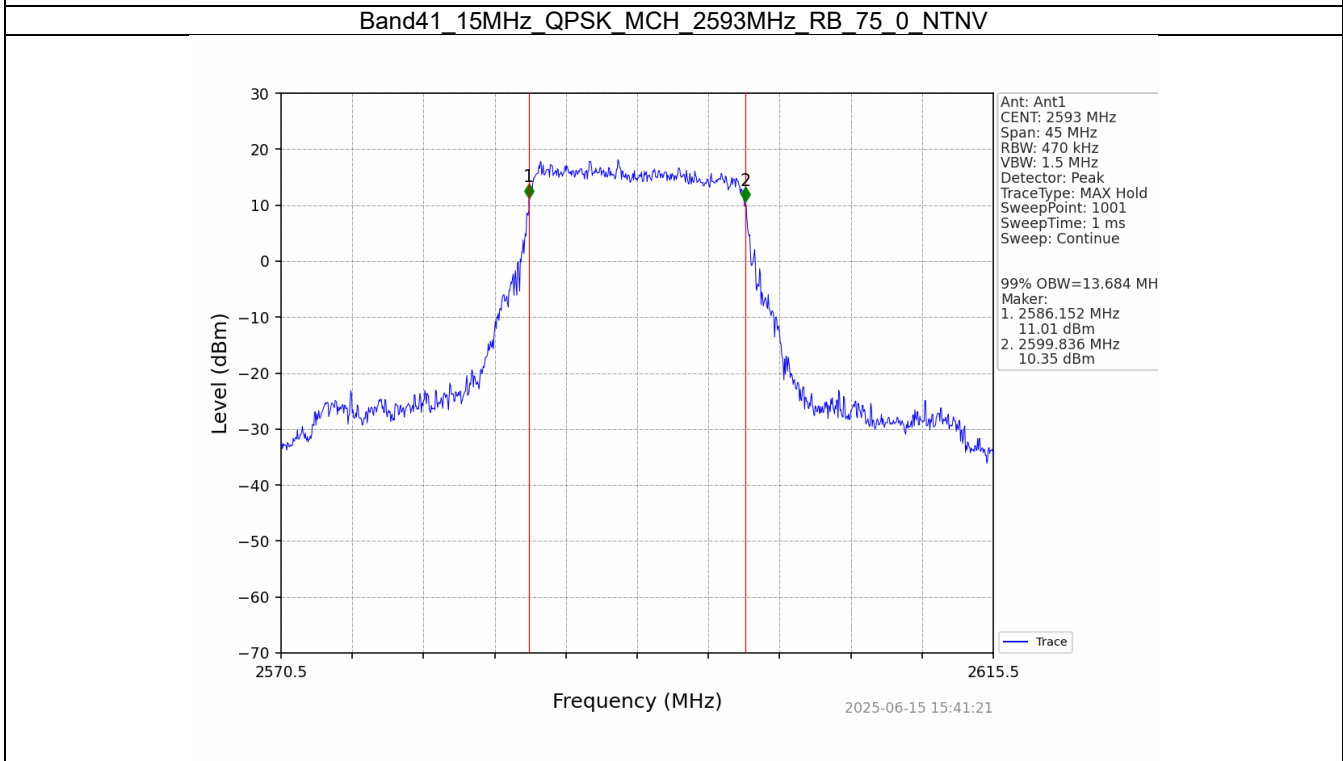
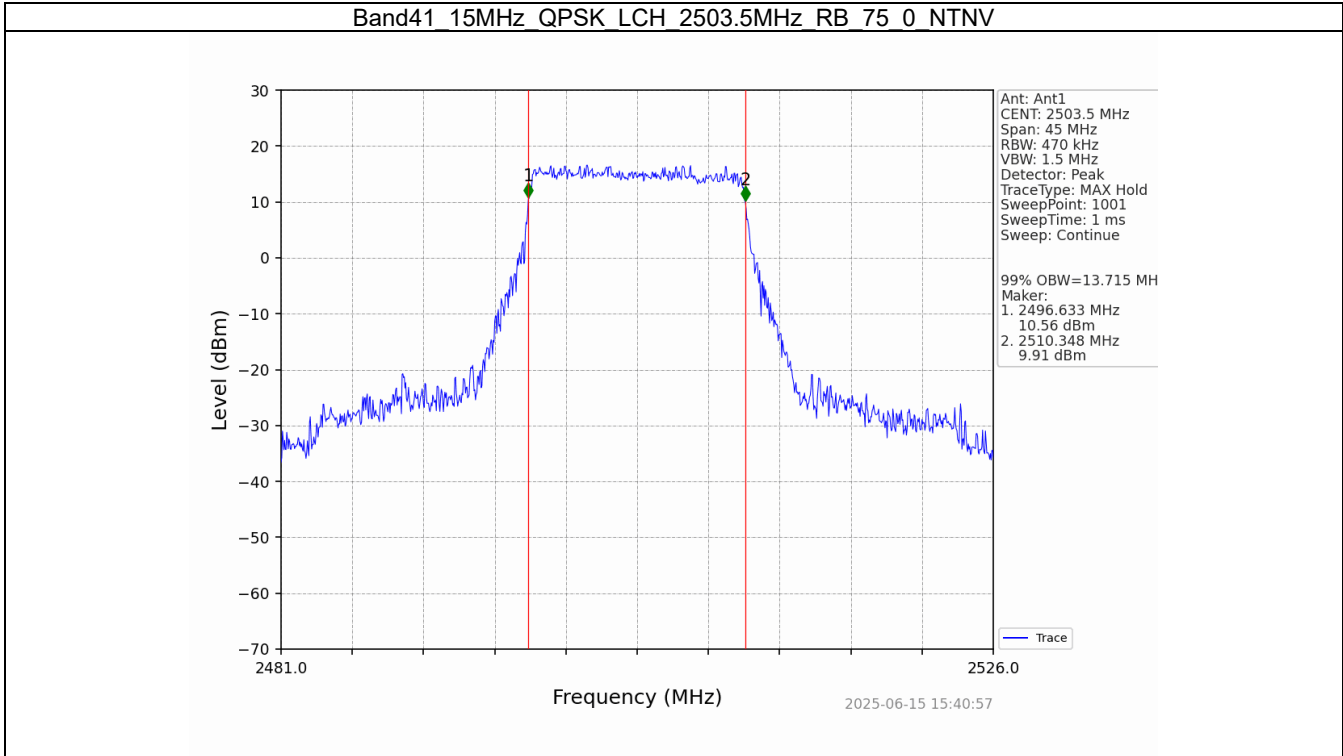


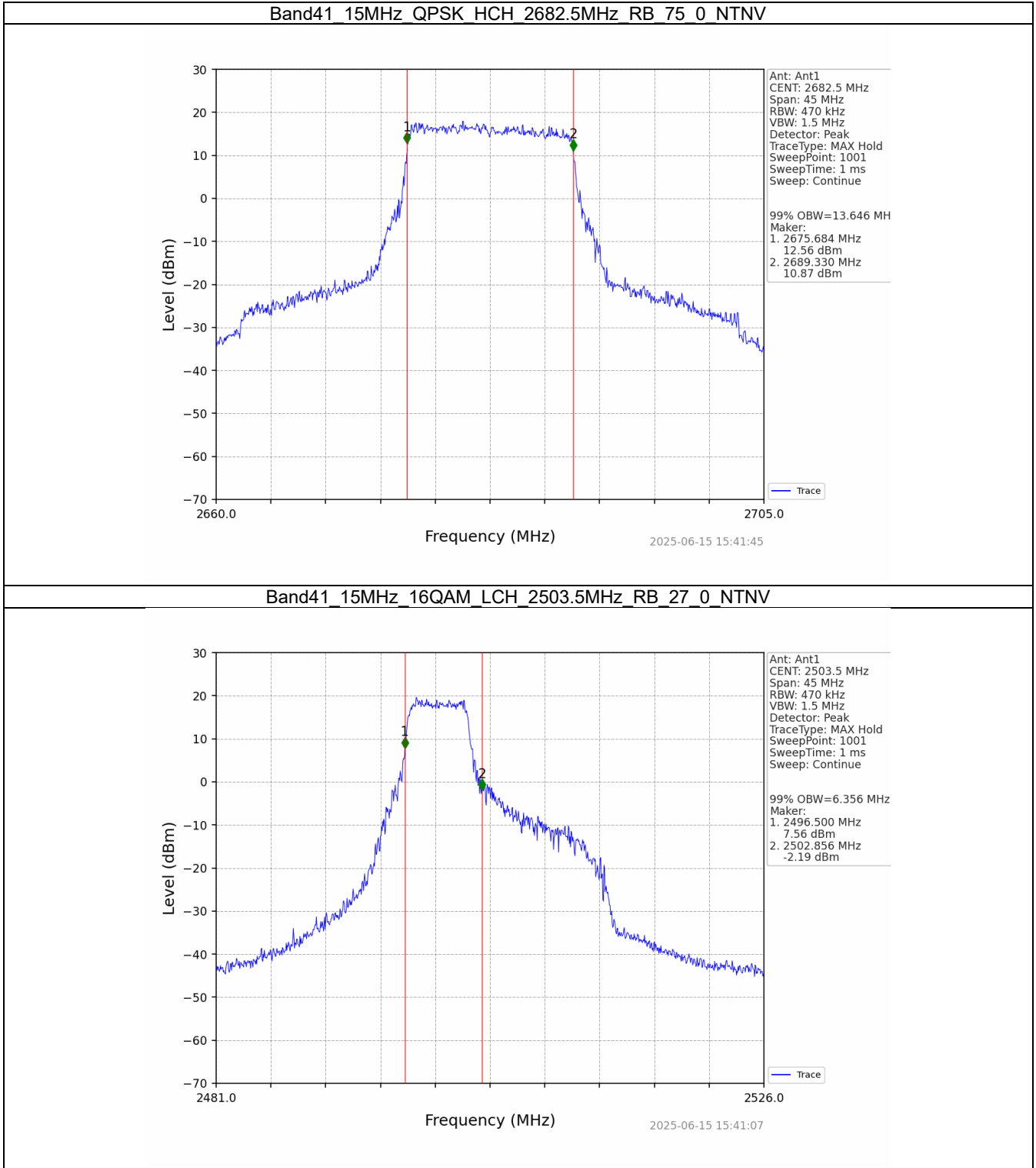


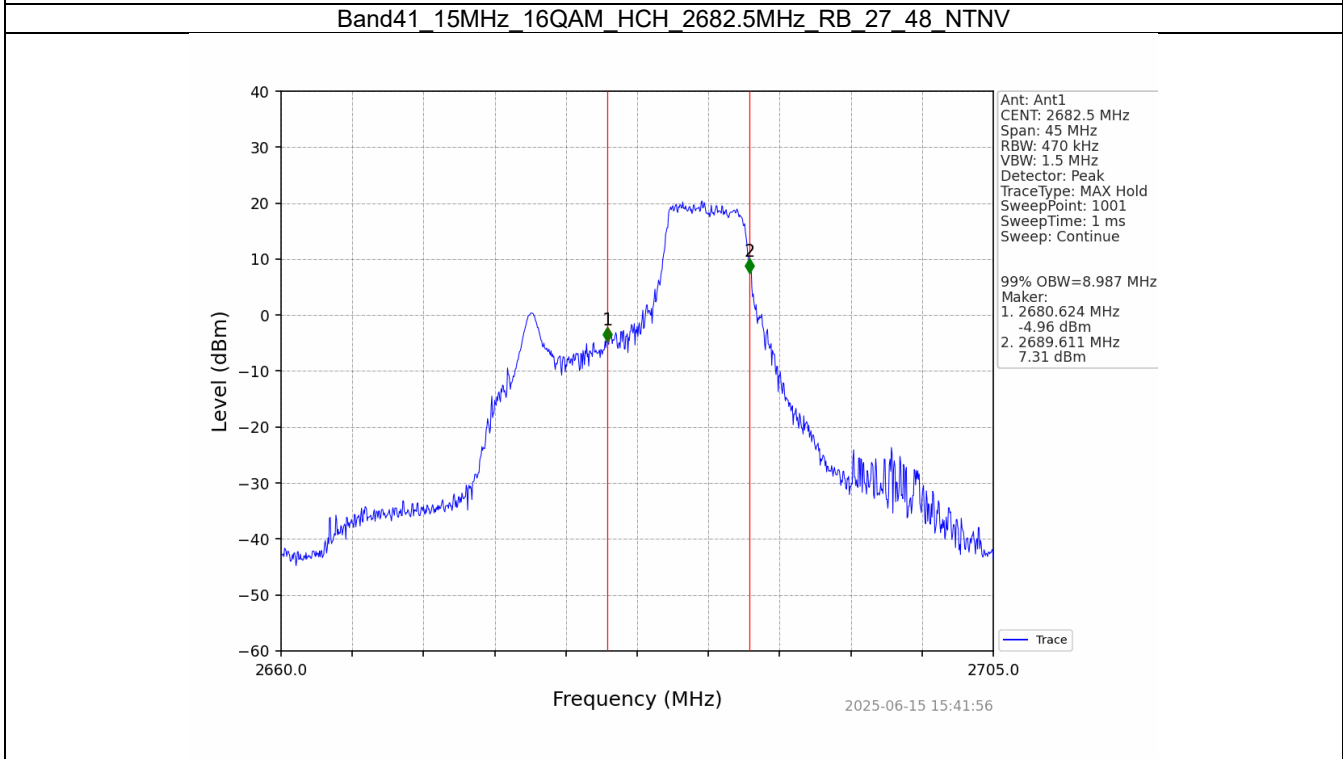
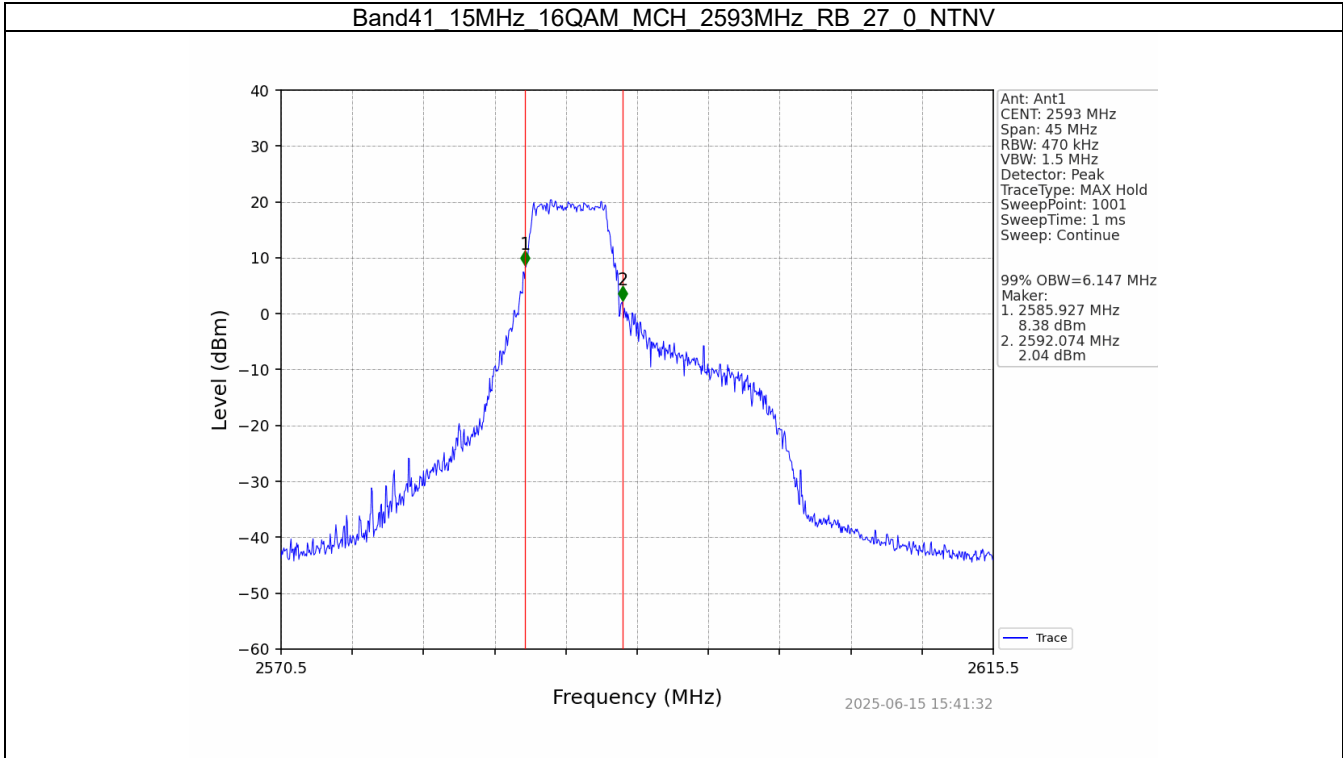


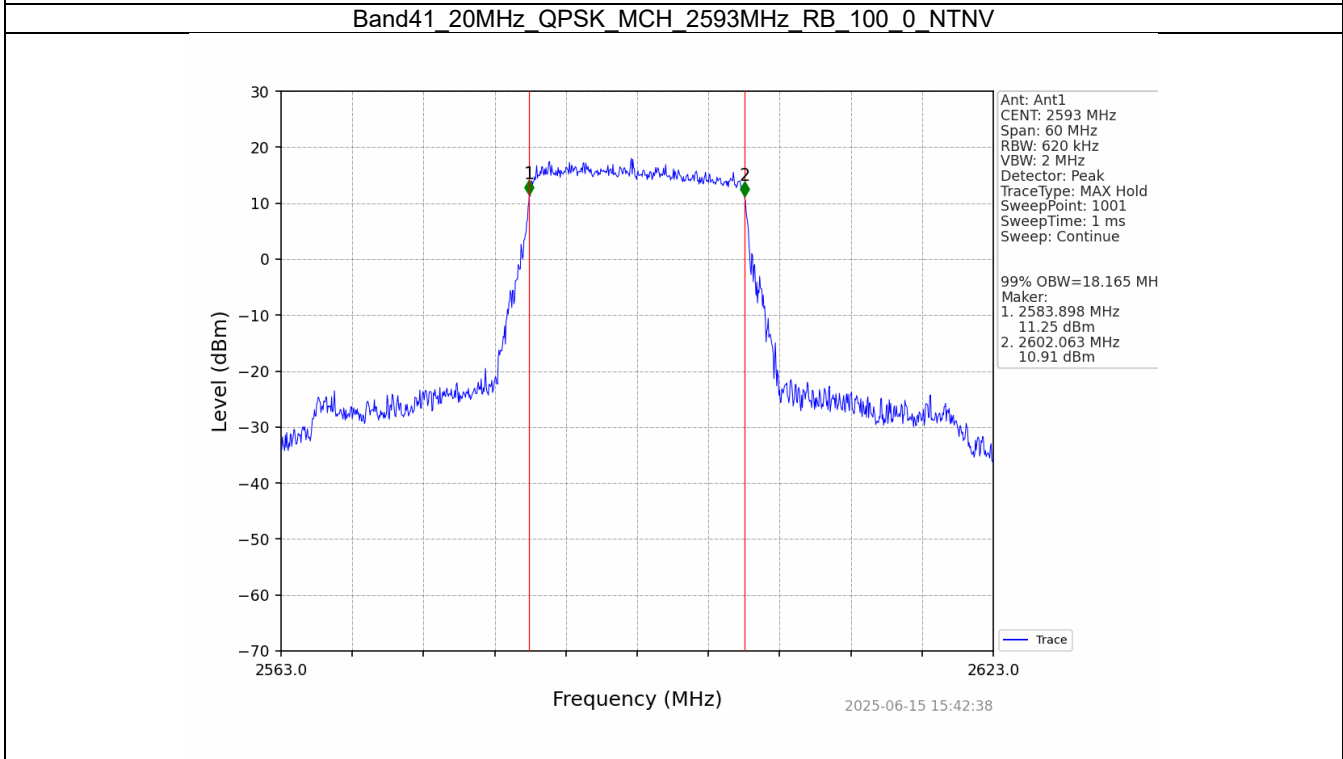
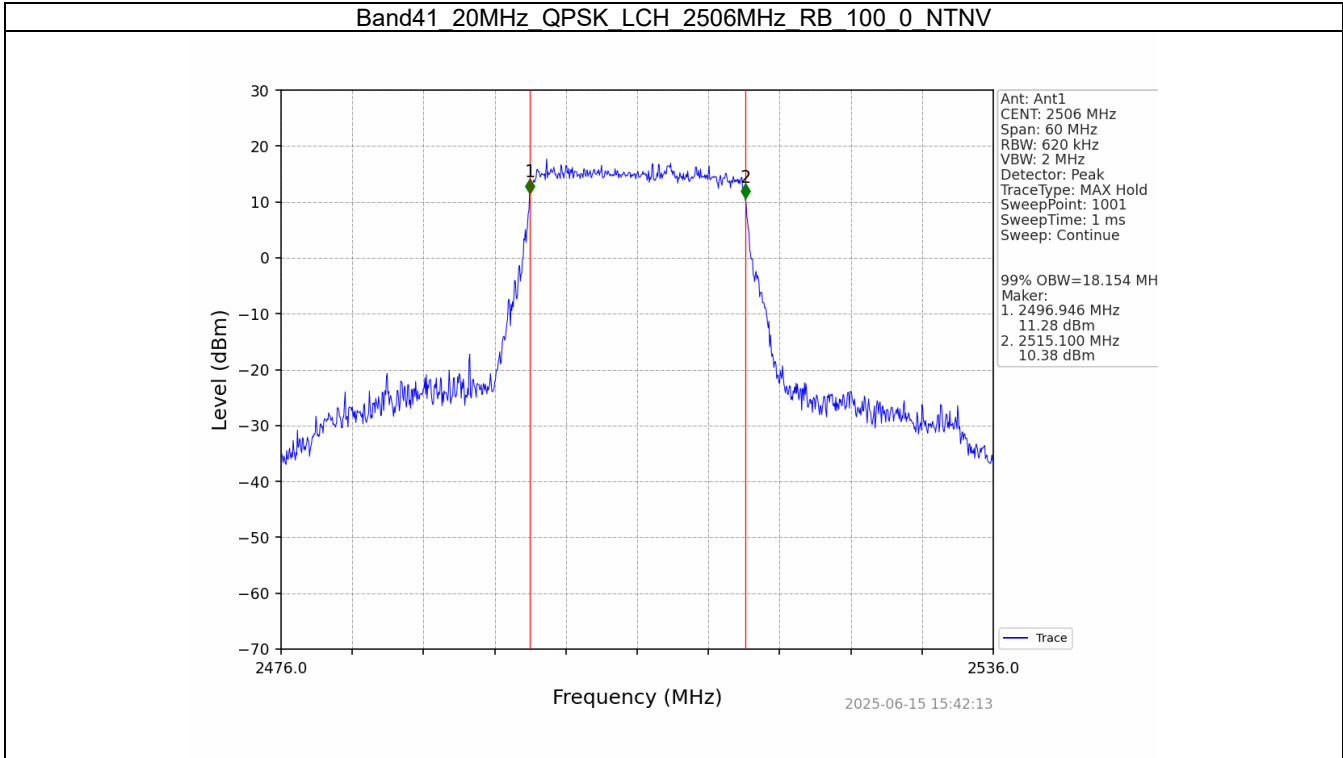


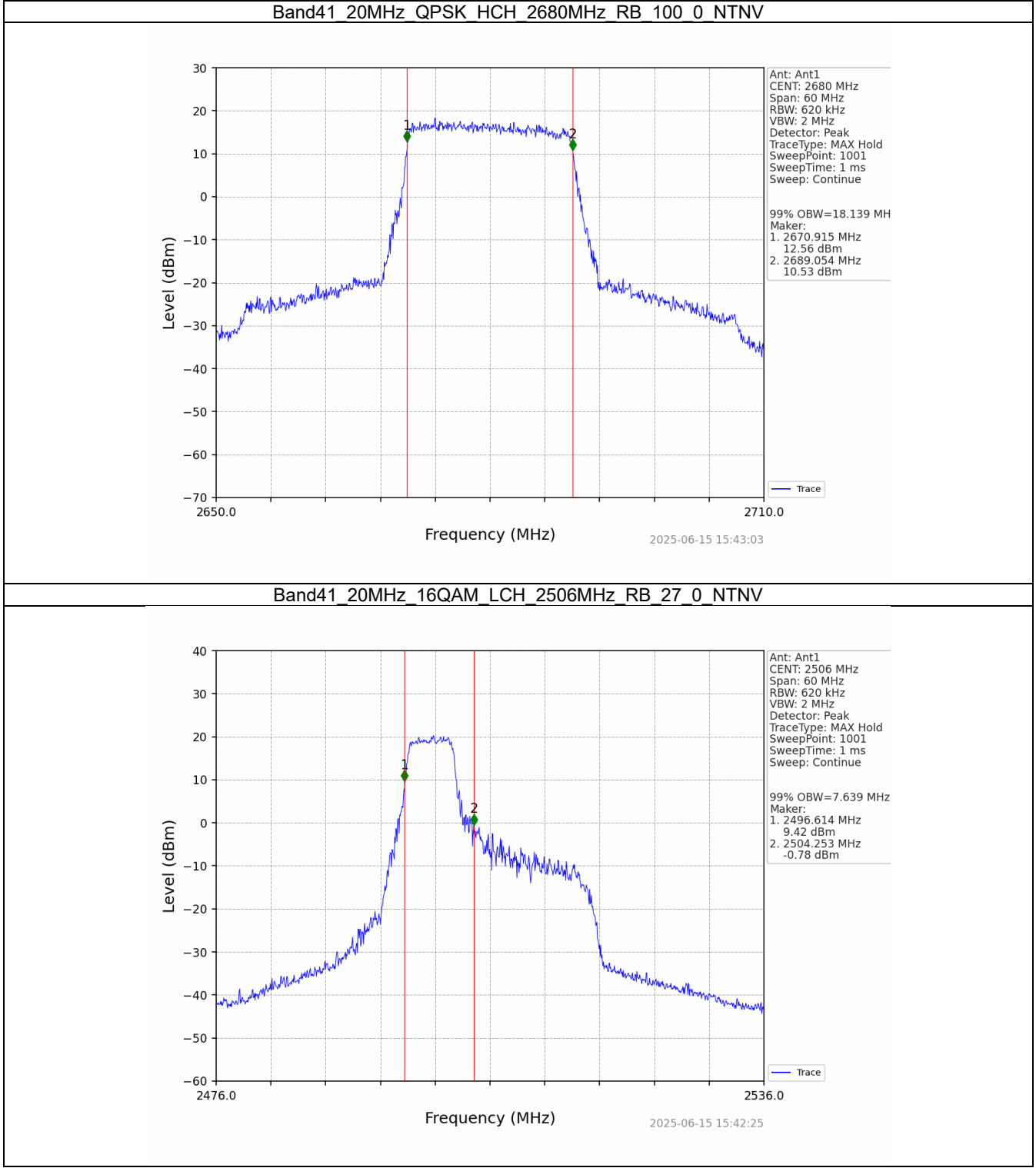


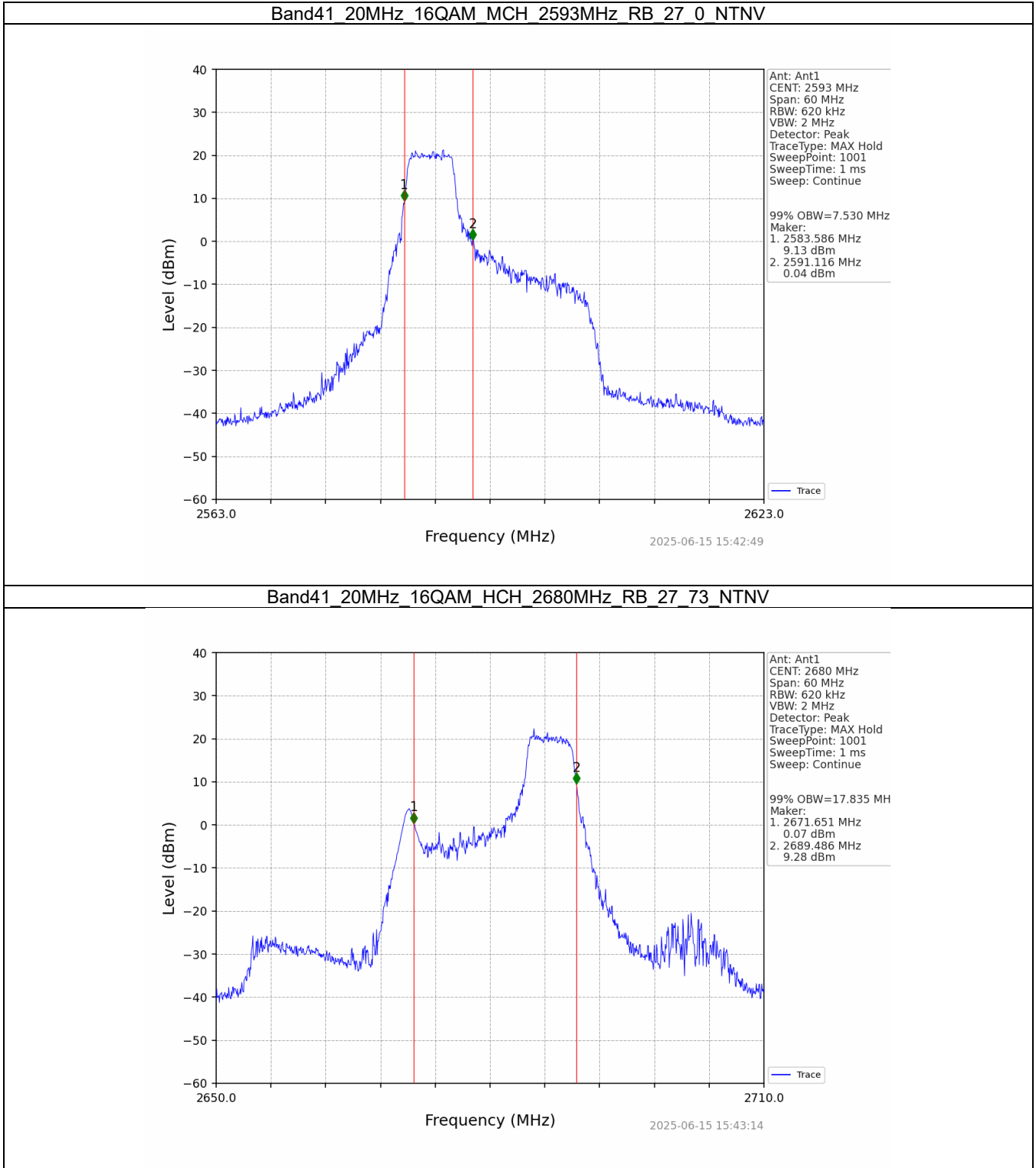




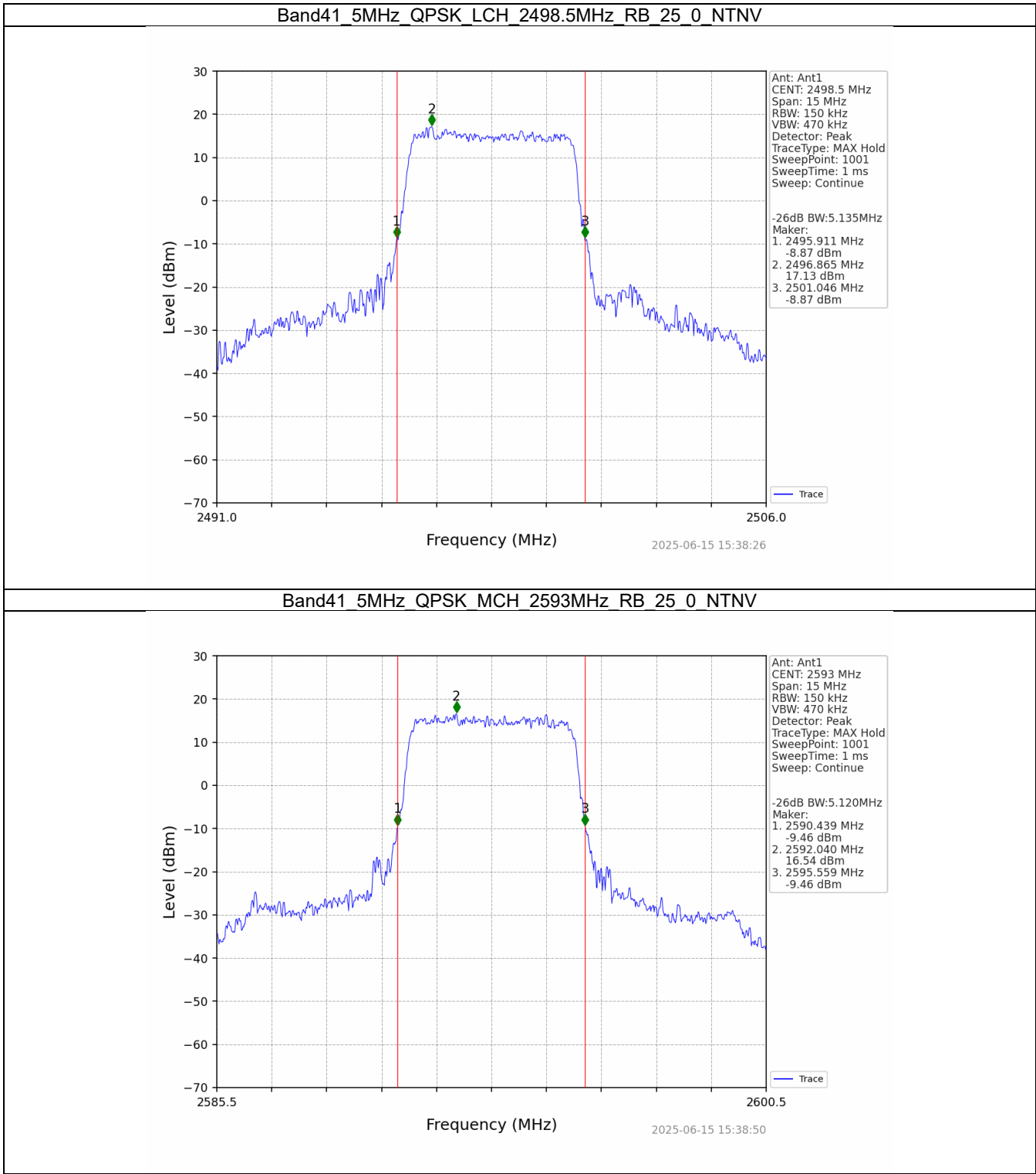


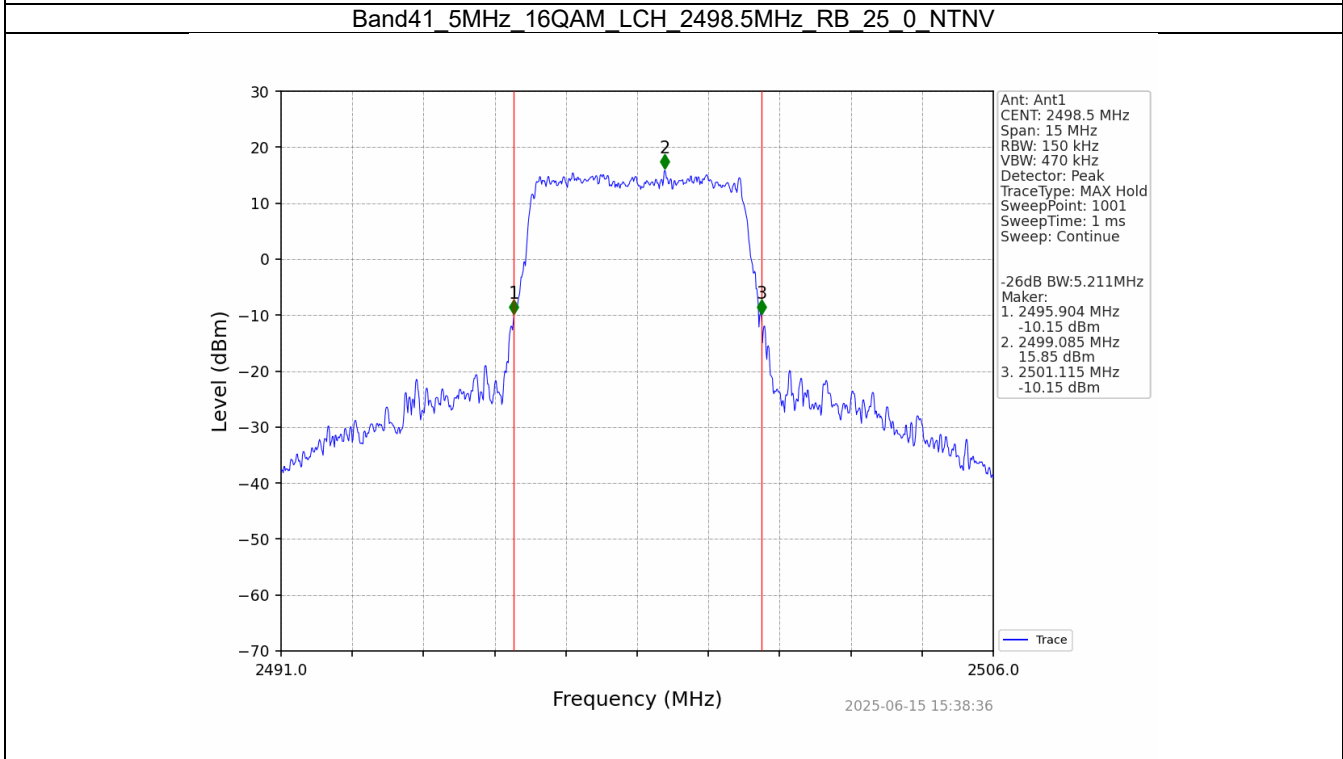
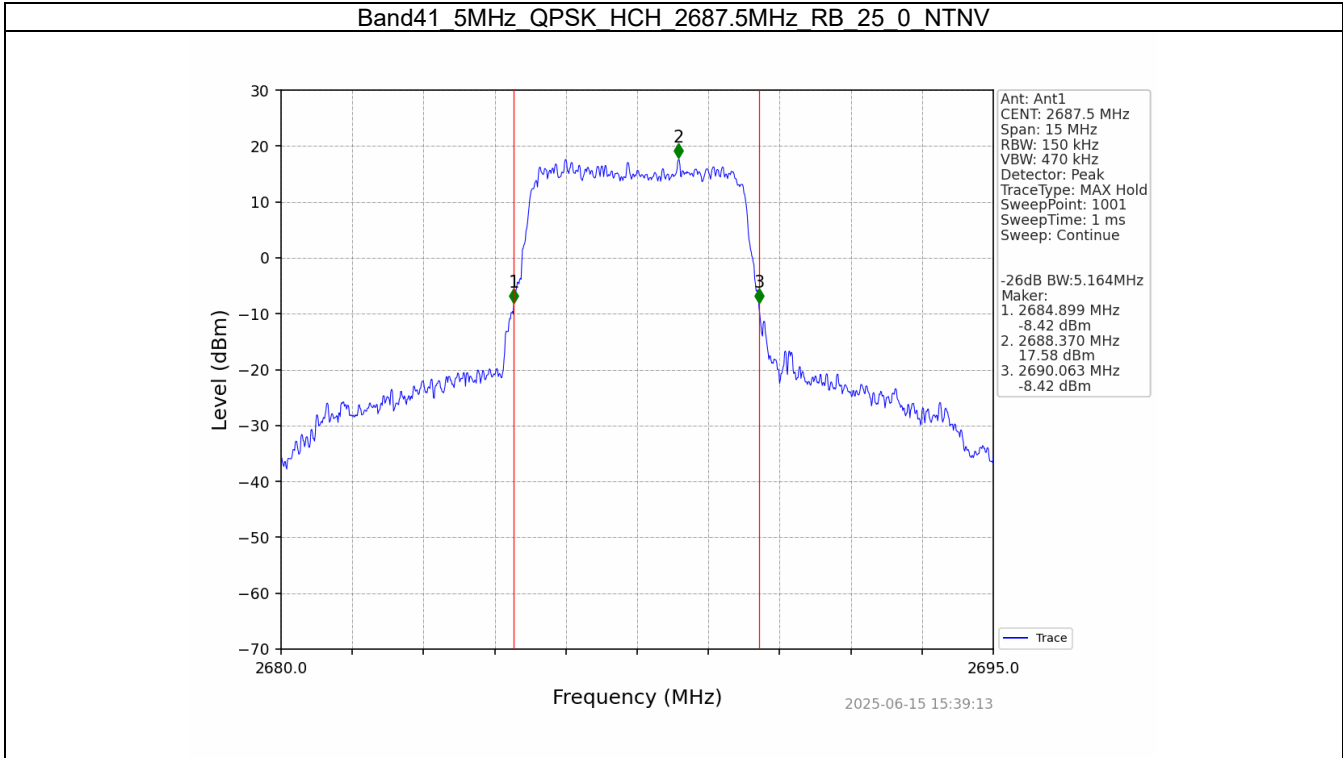


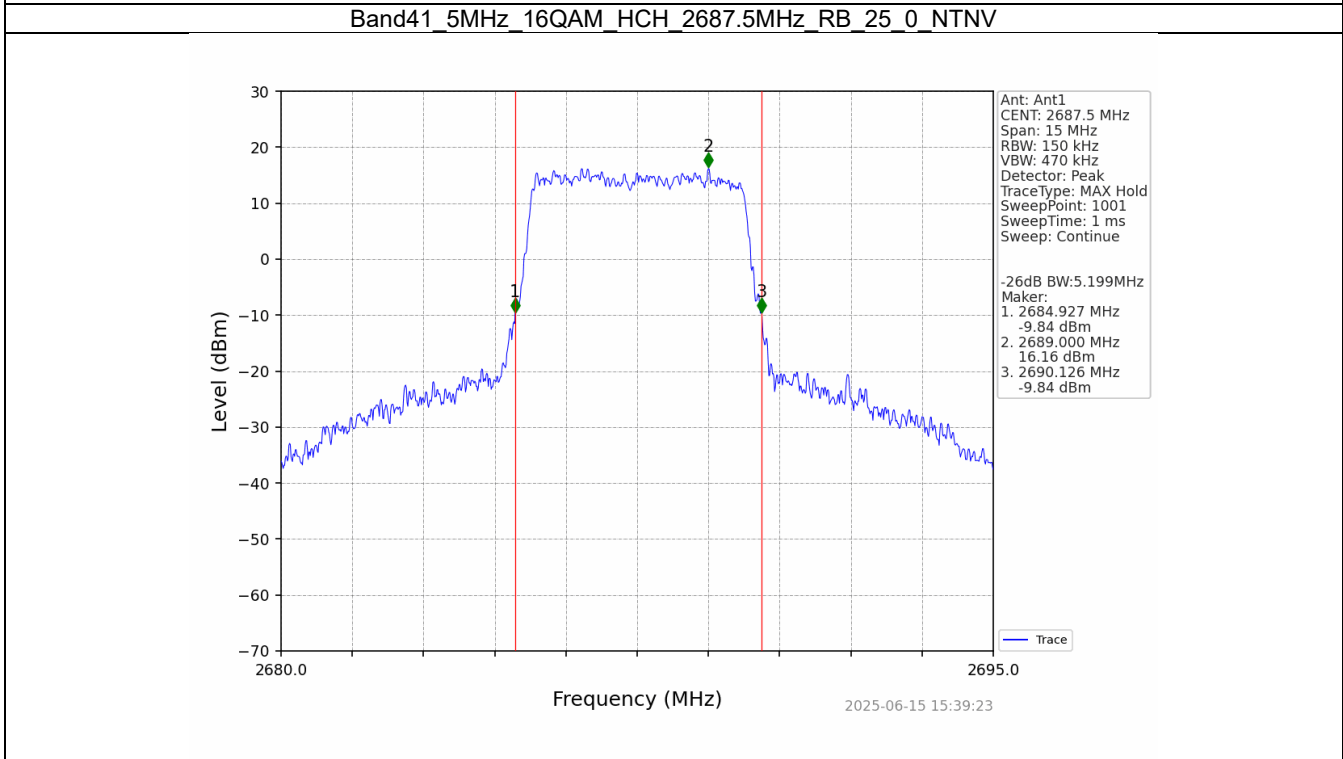
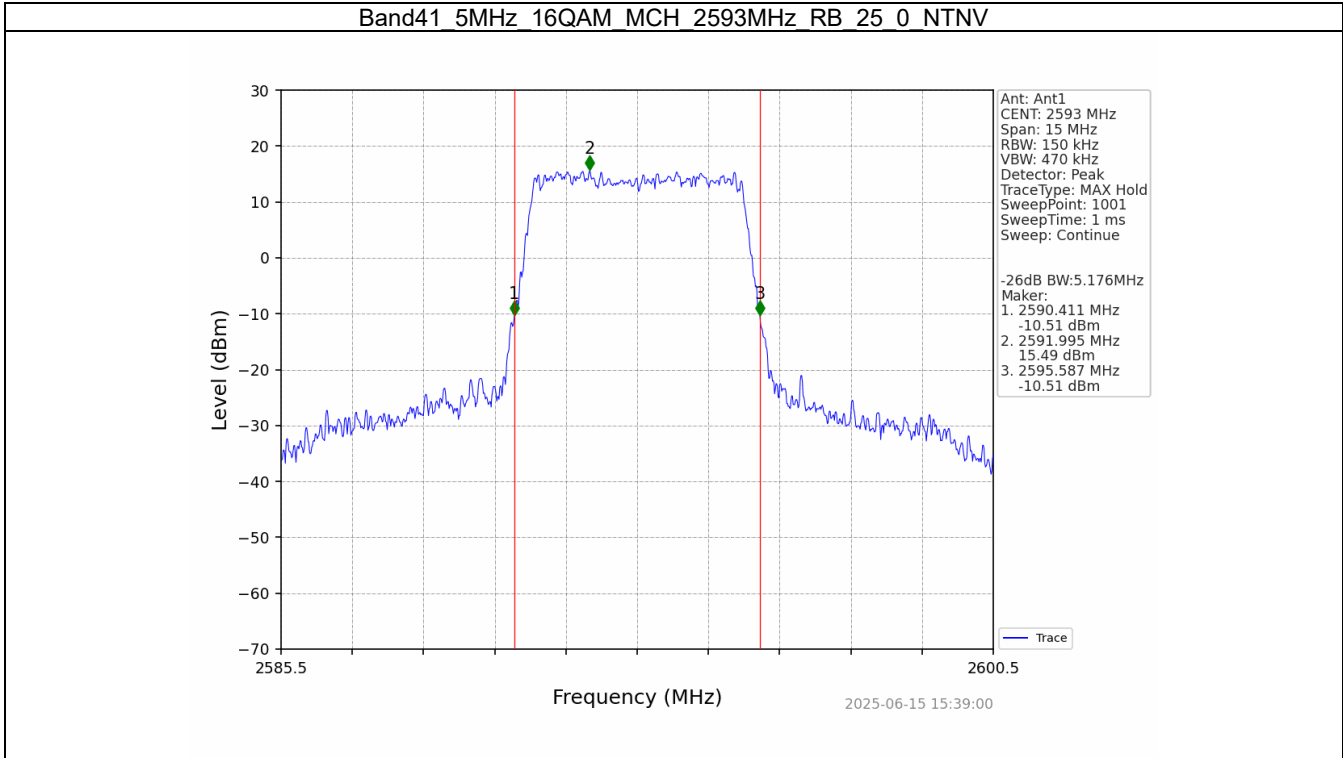


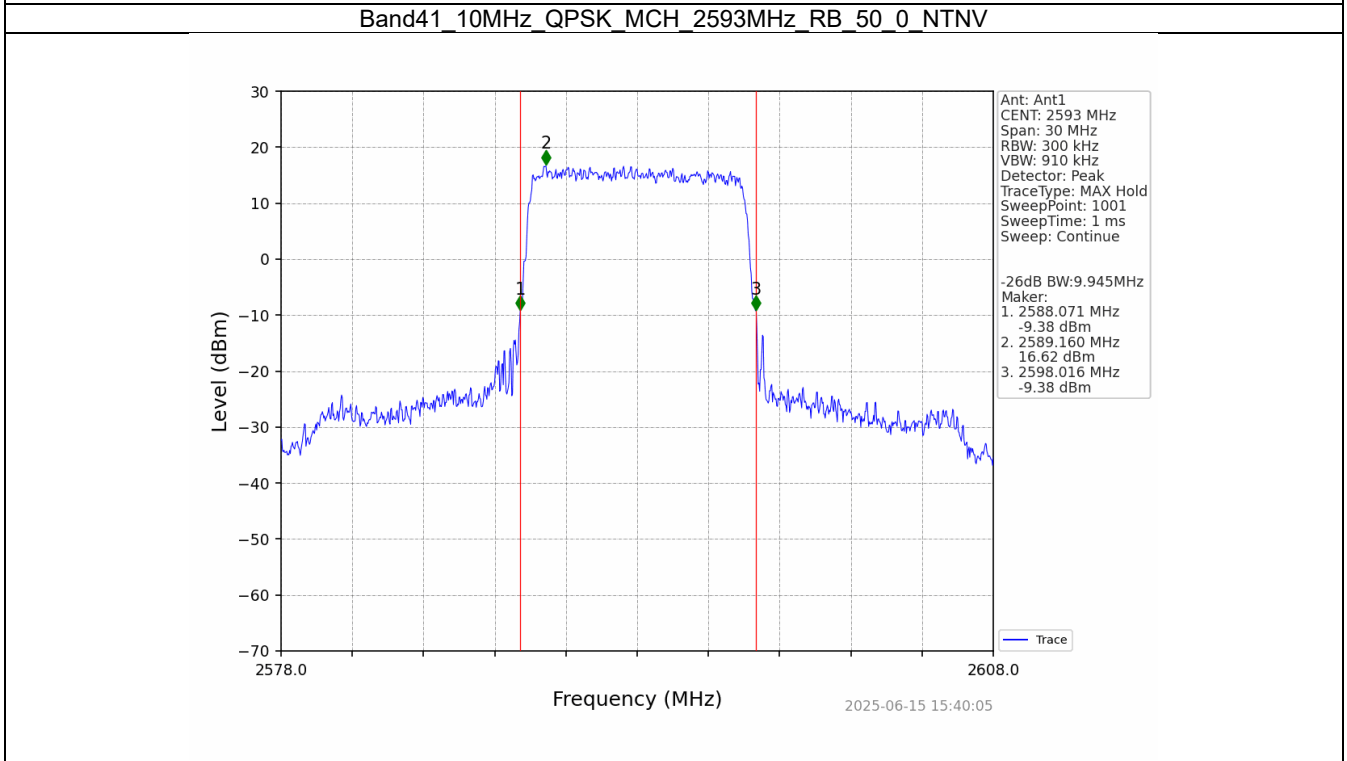
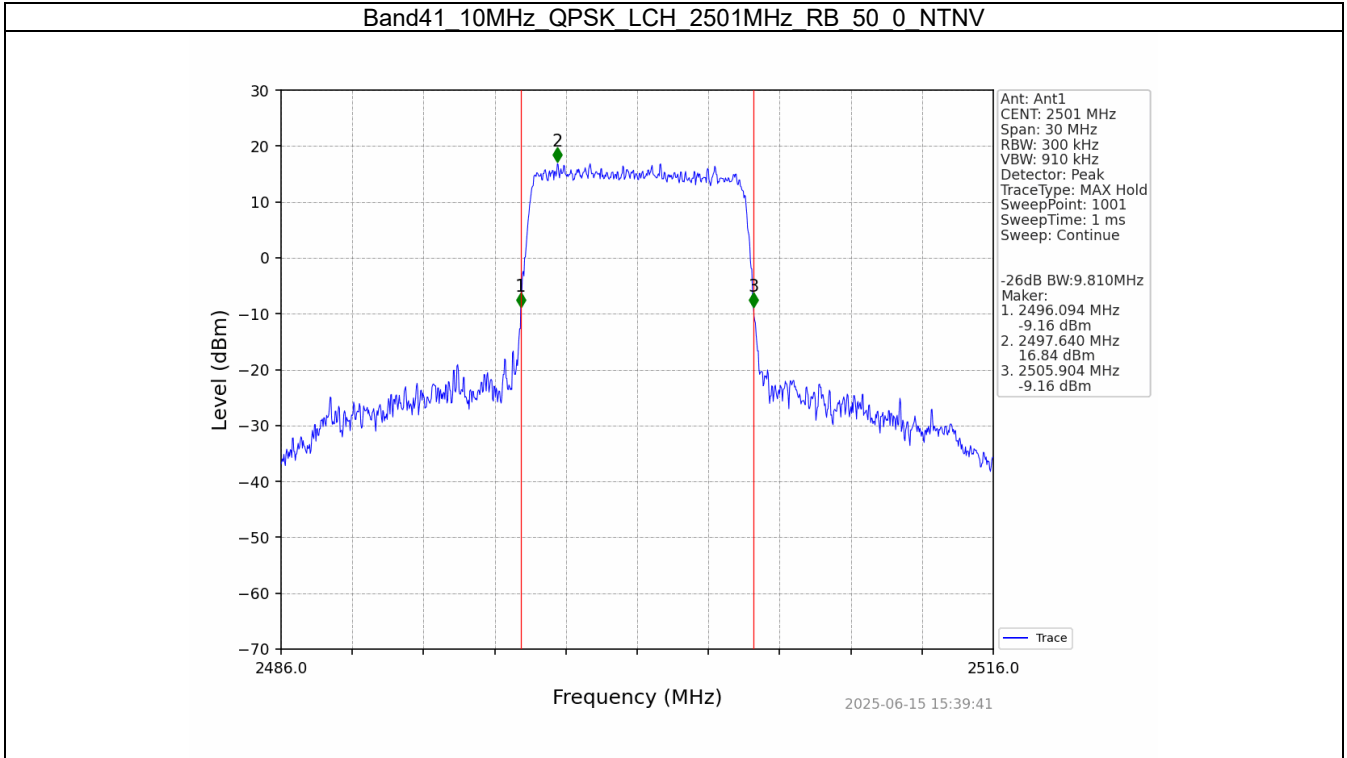


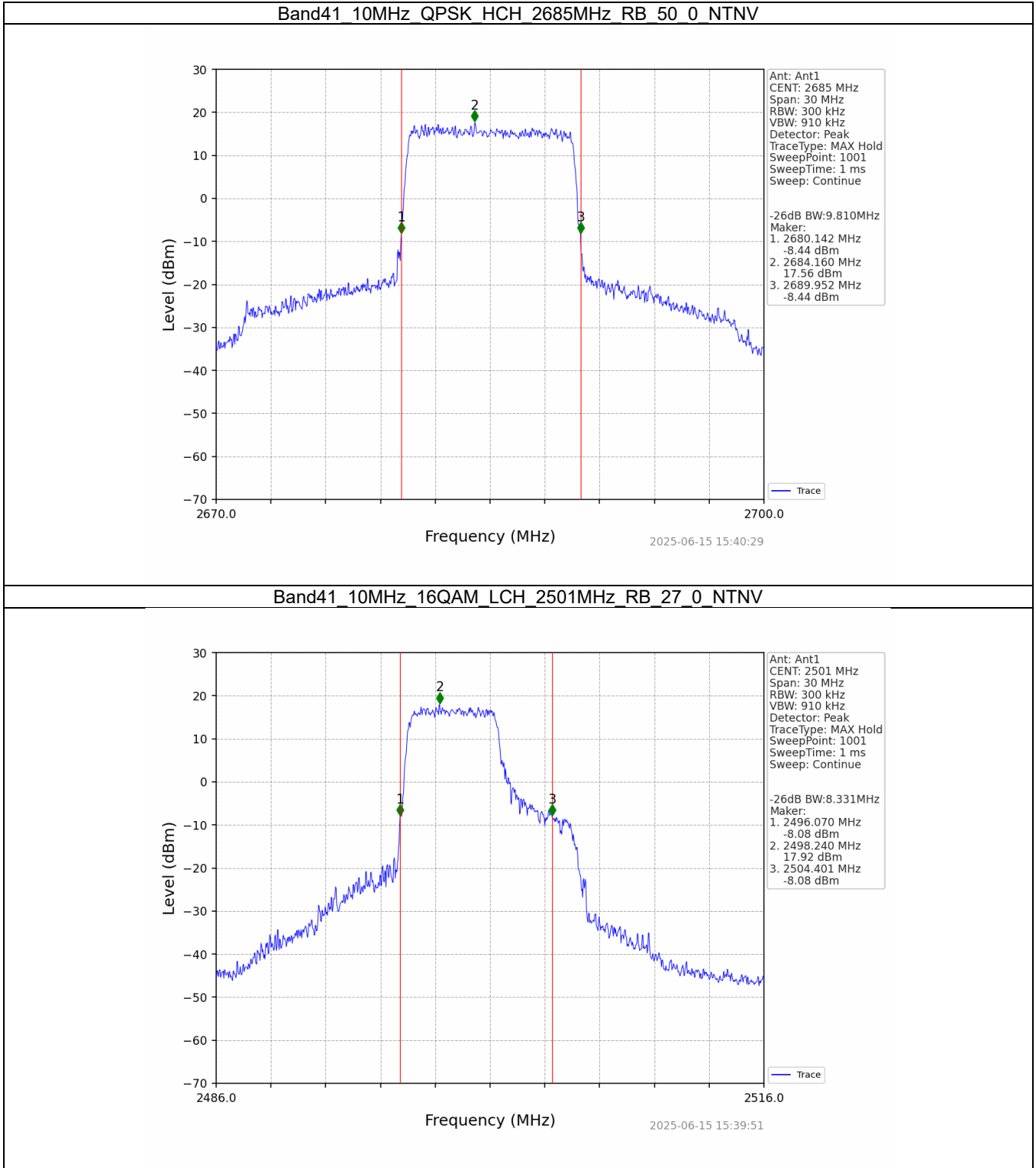
4.2.2 Band41_XDB

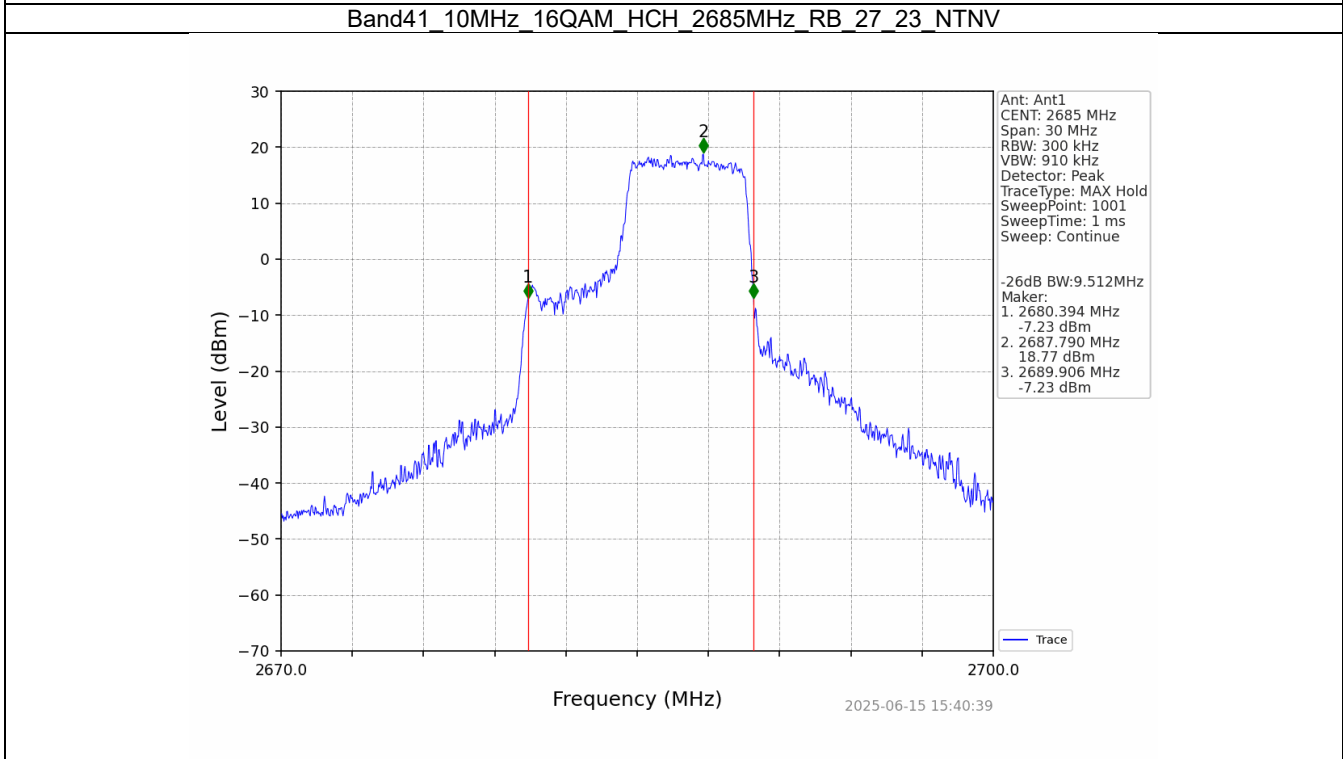
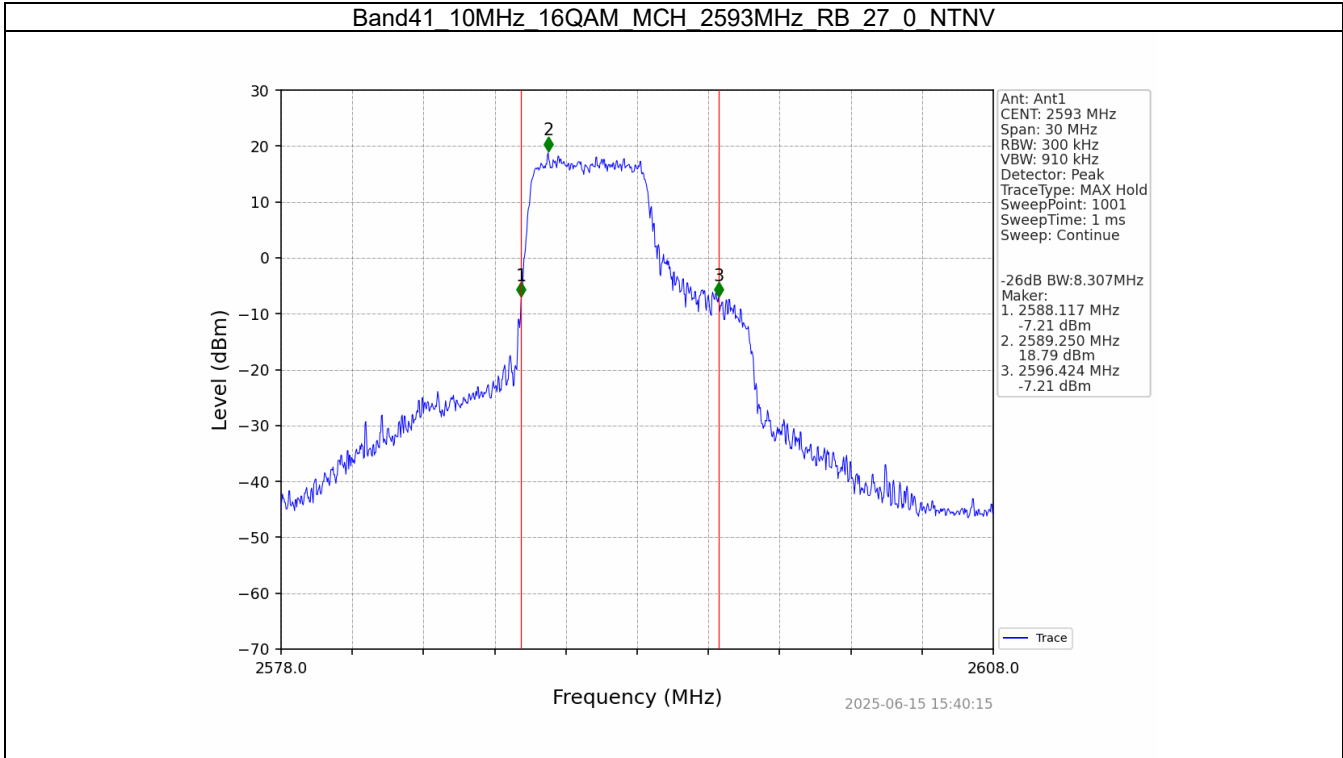


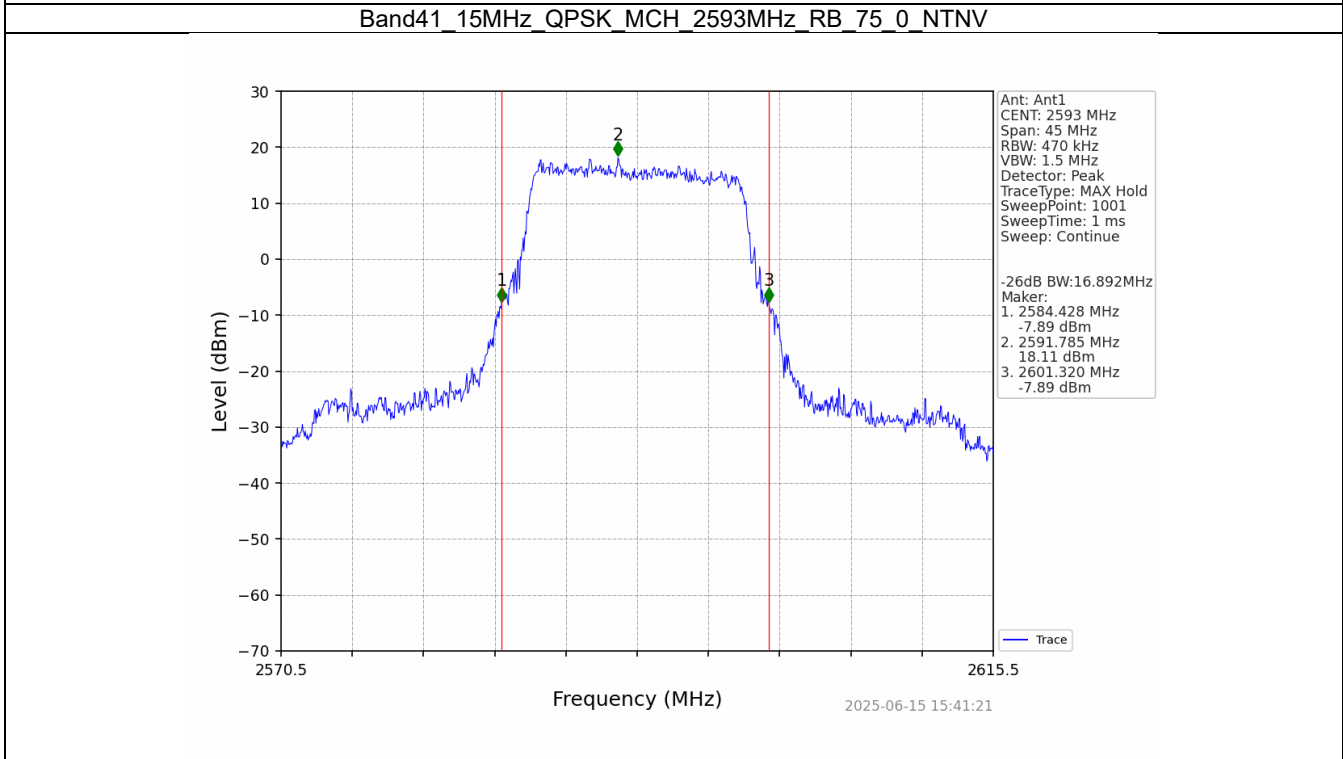
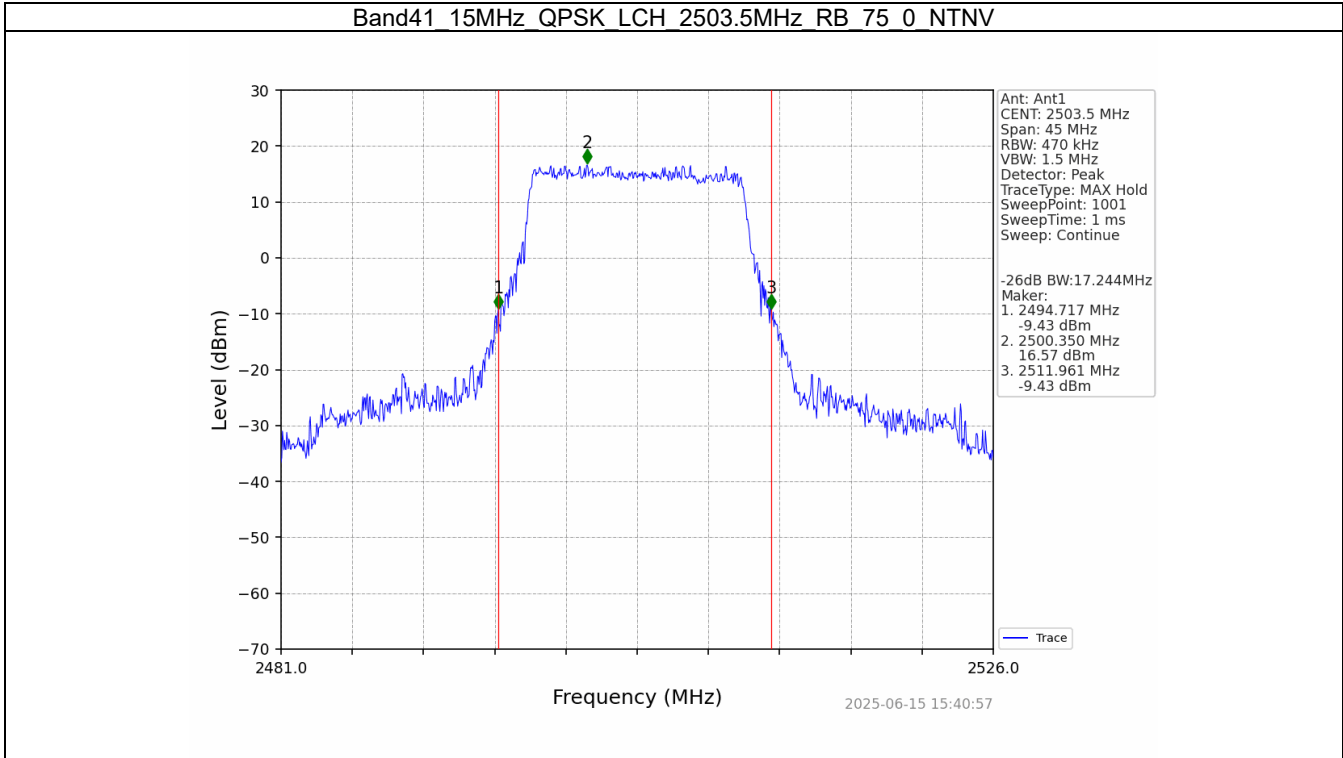


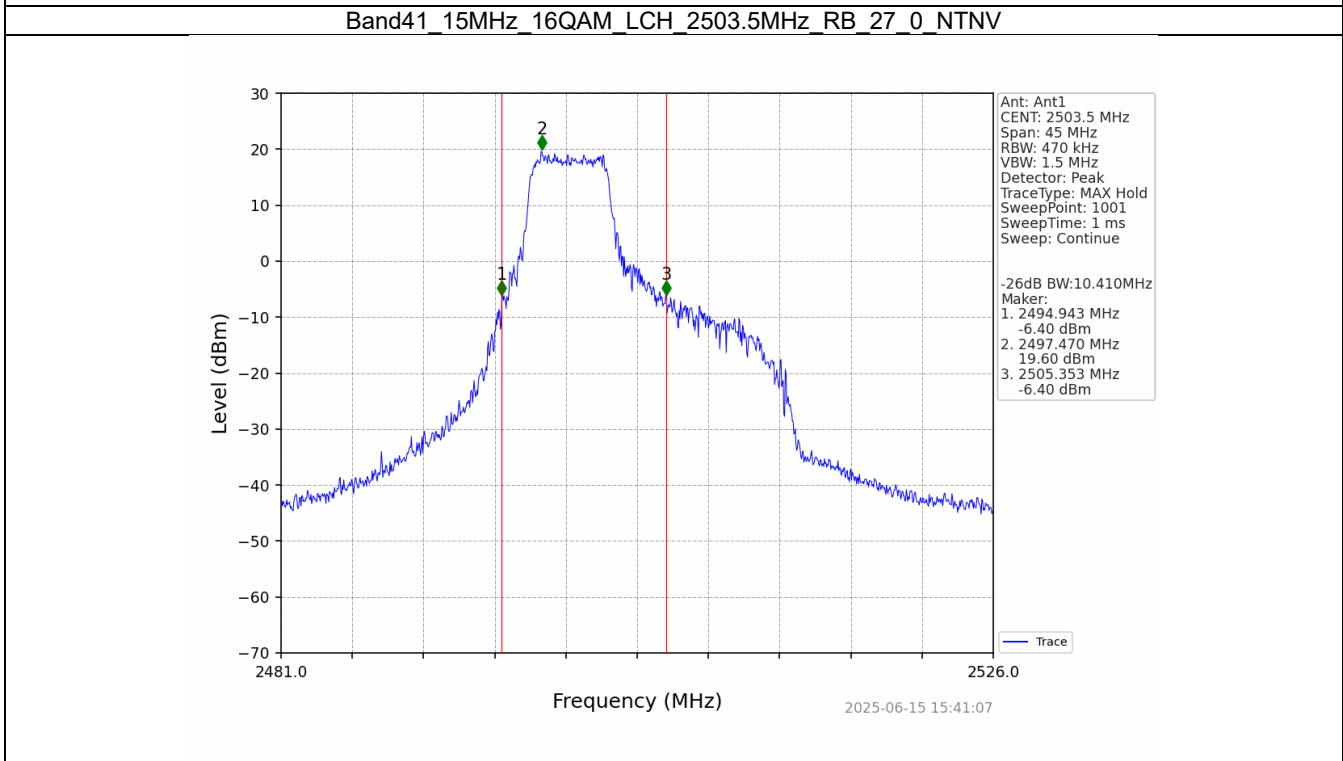
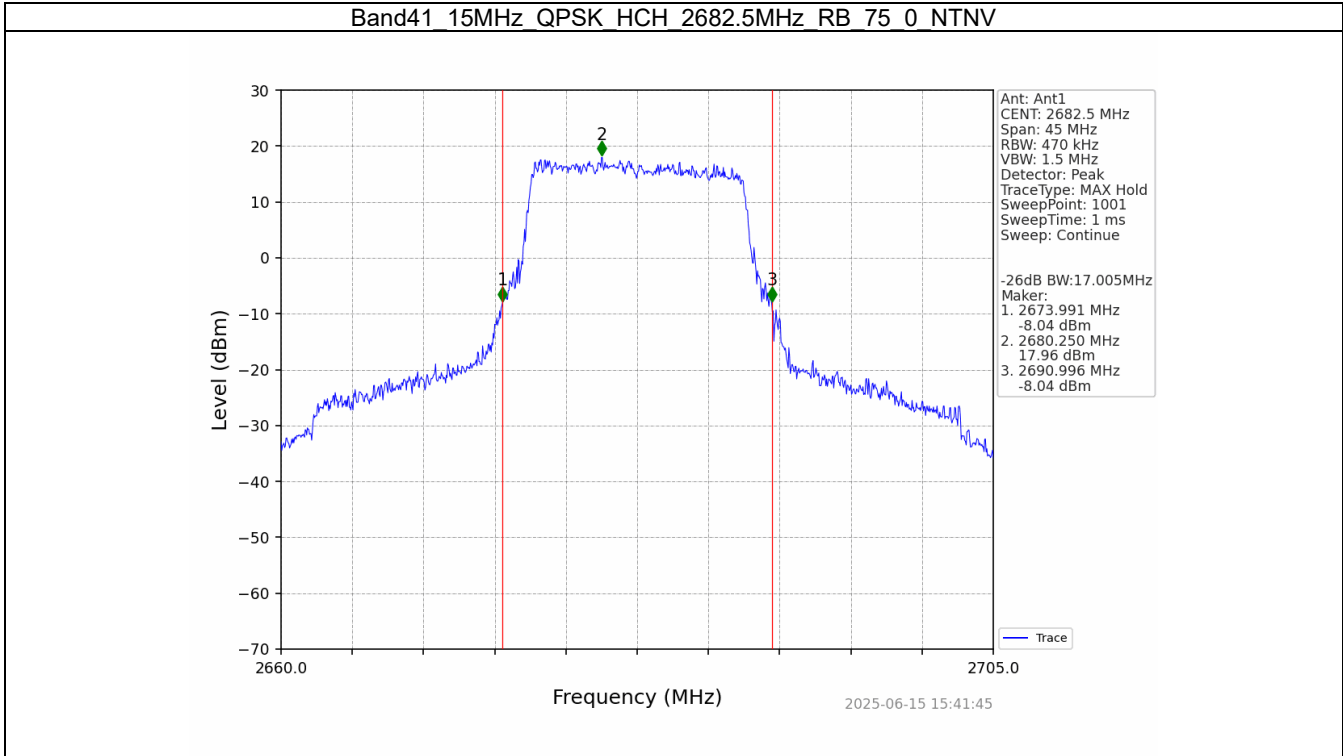


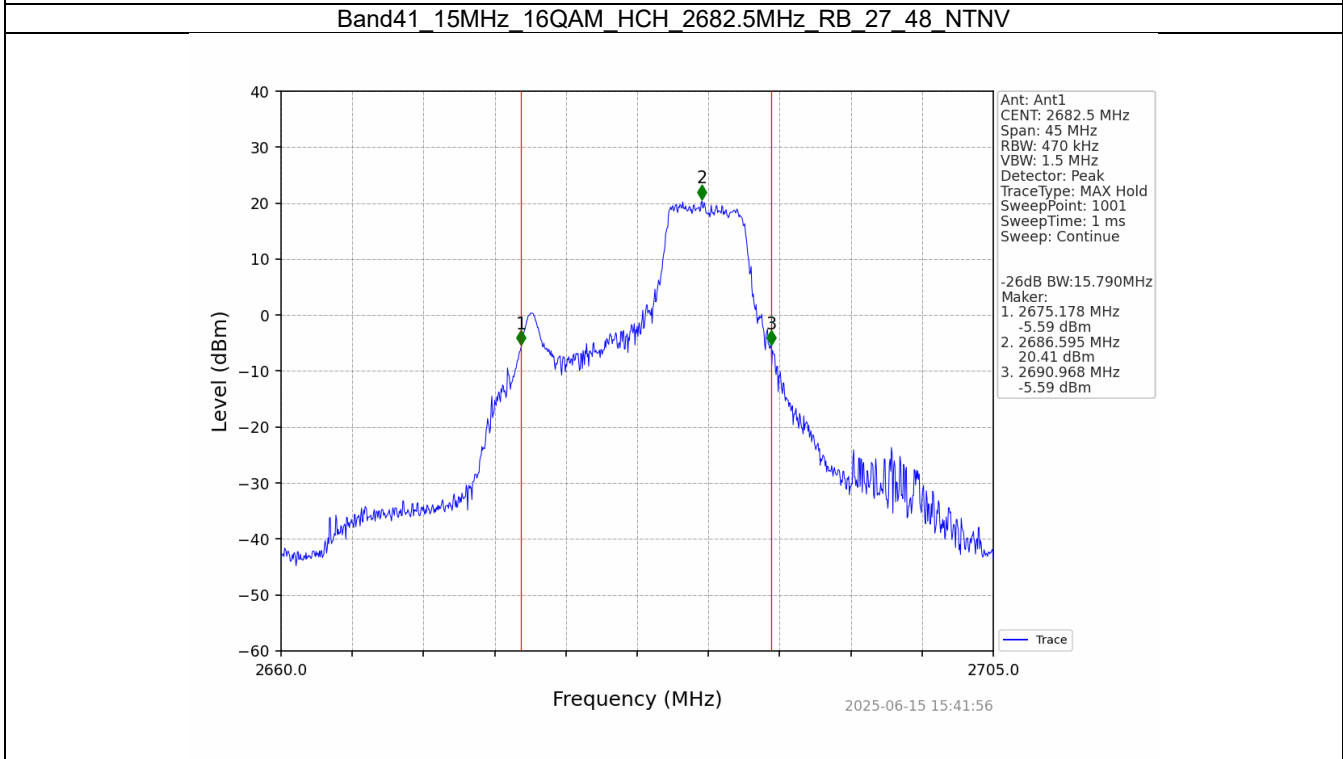
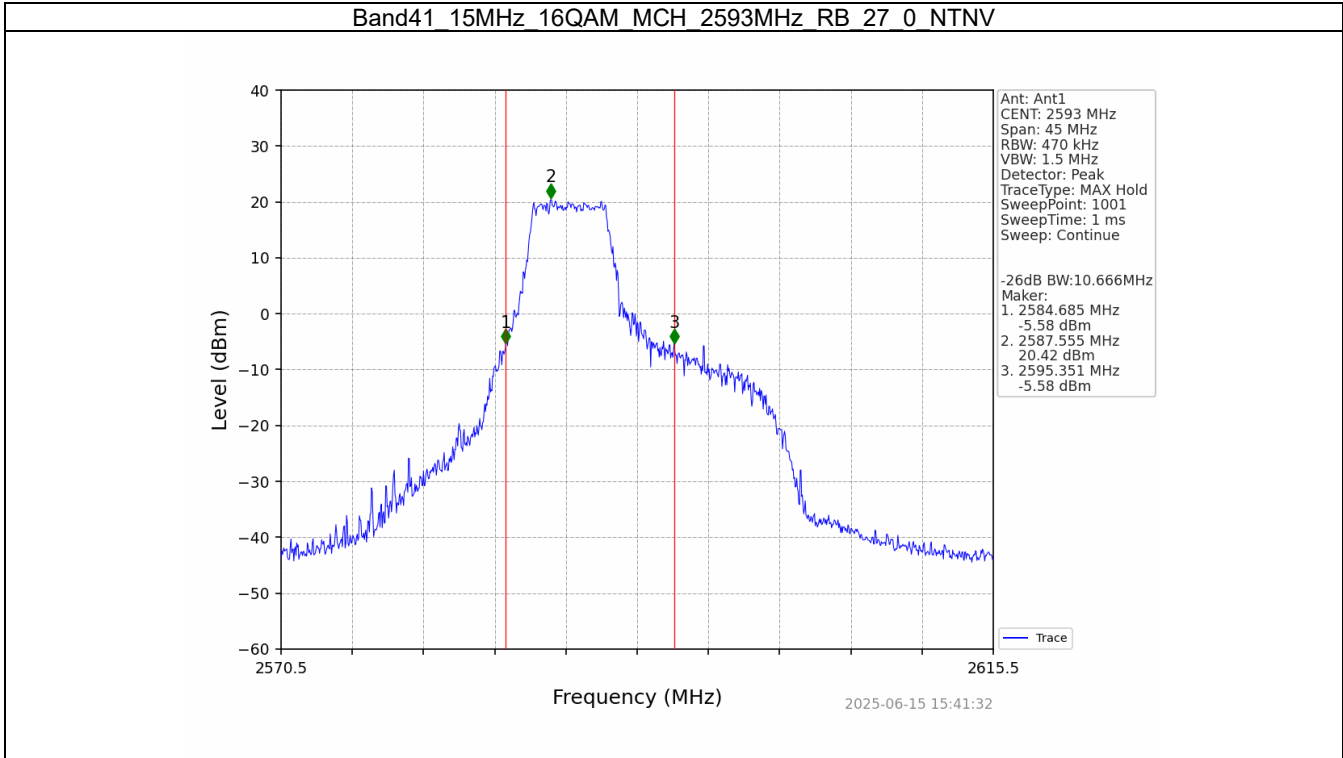


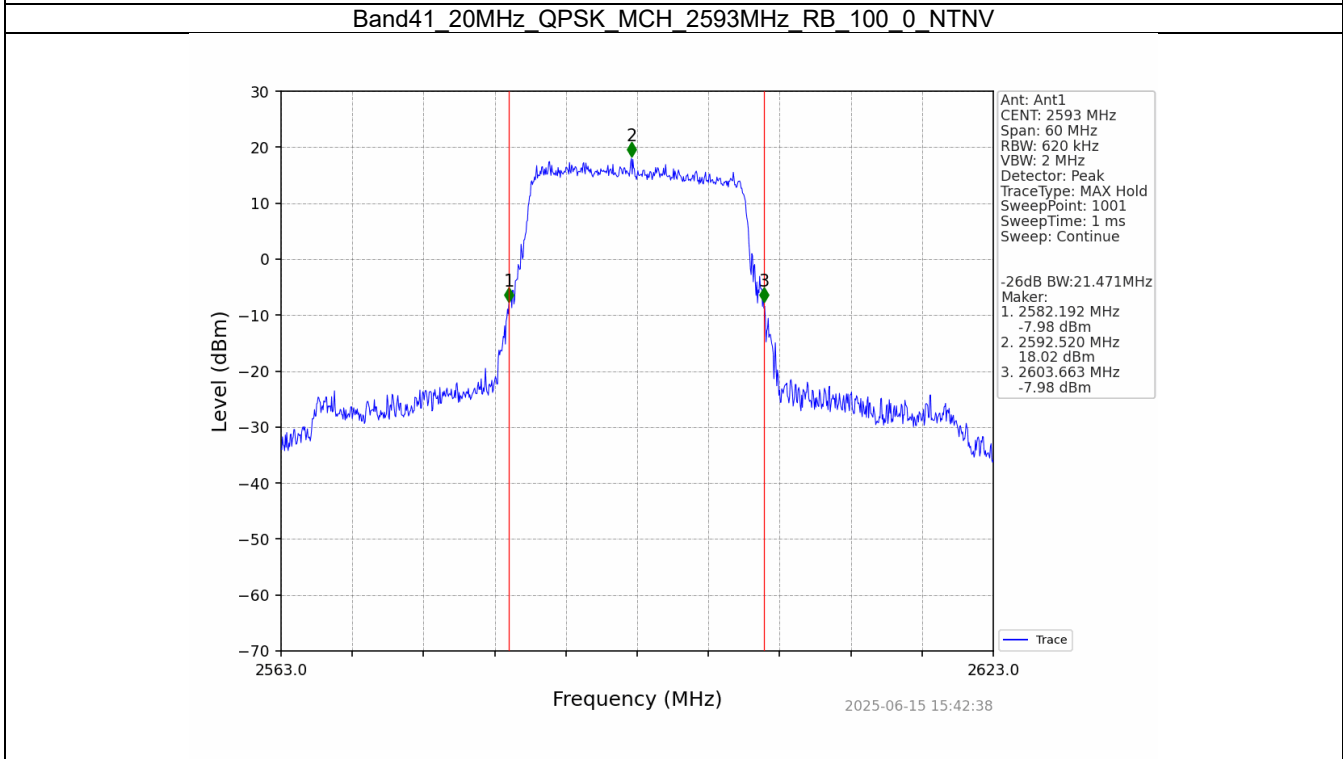
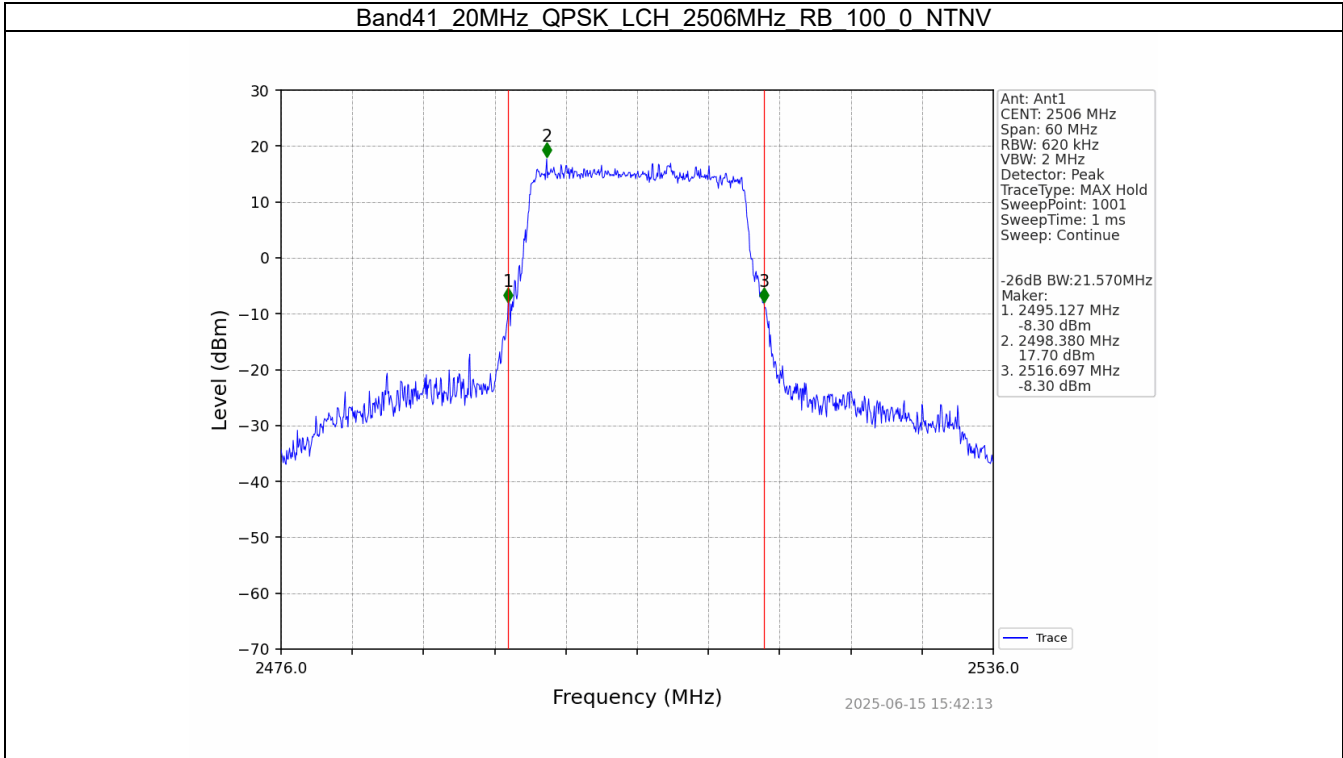


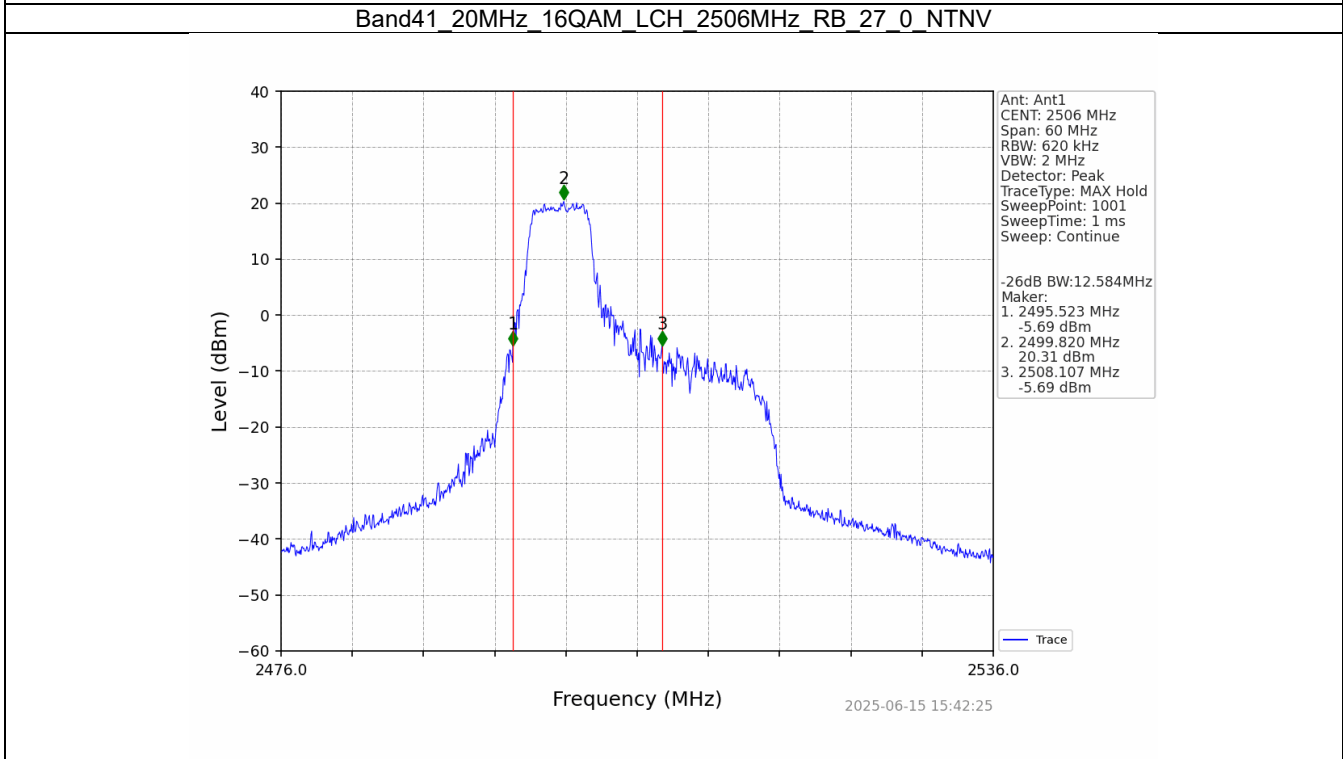
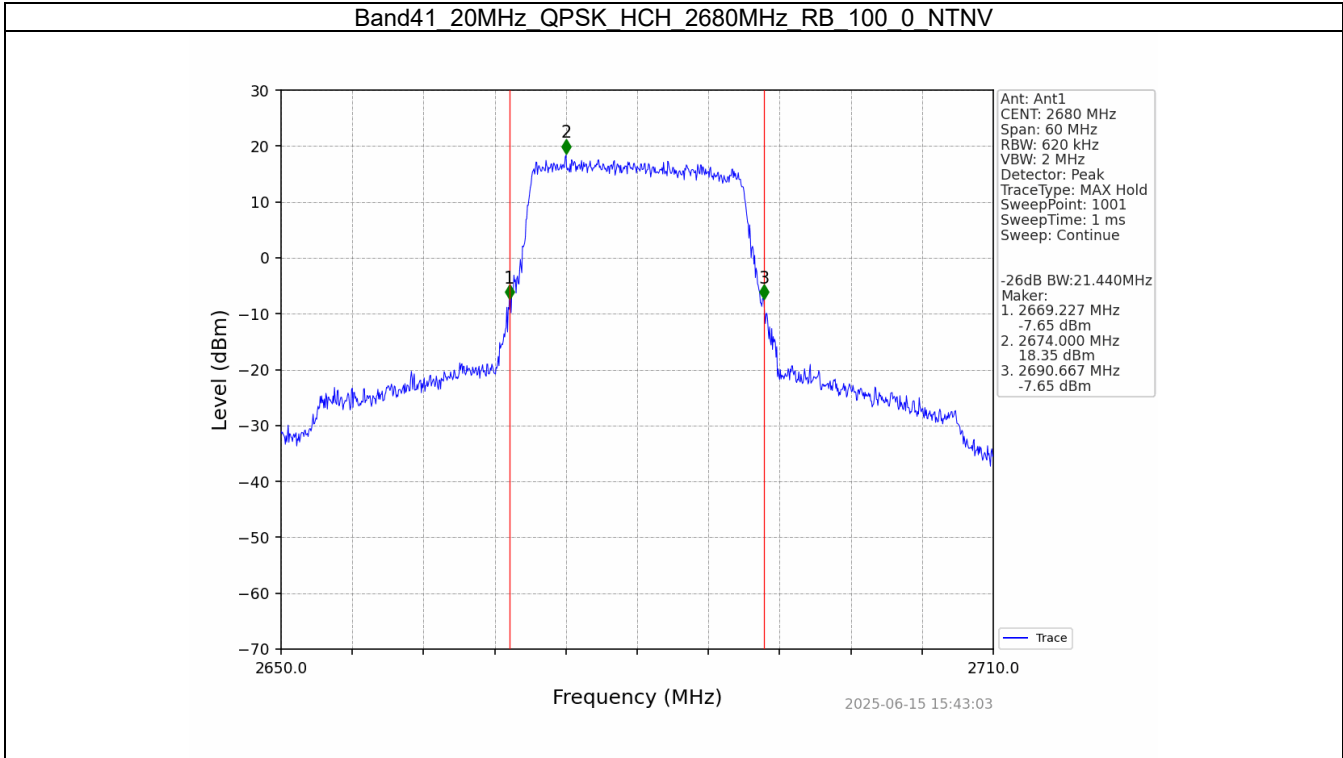


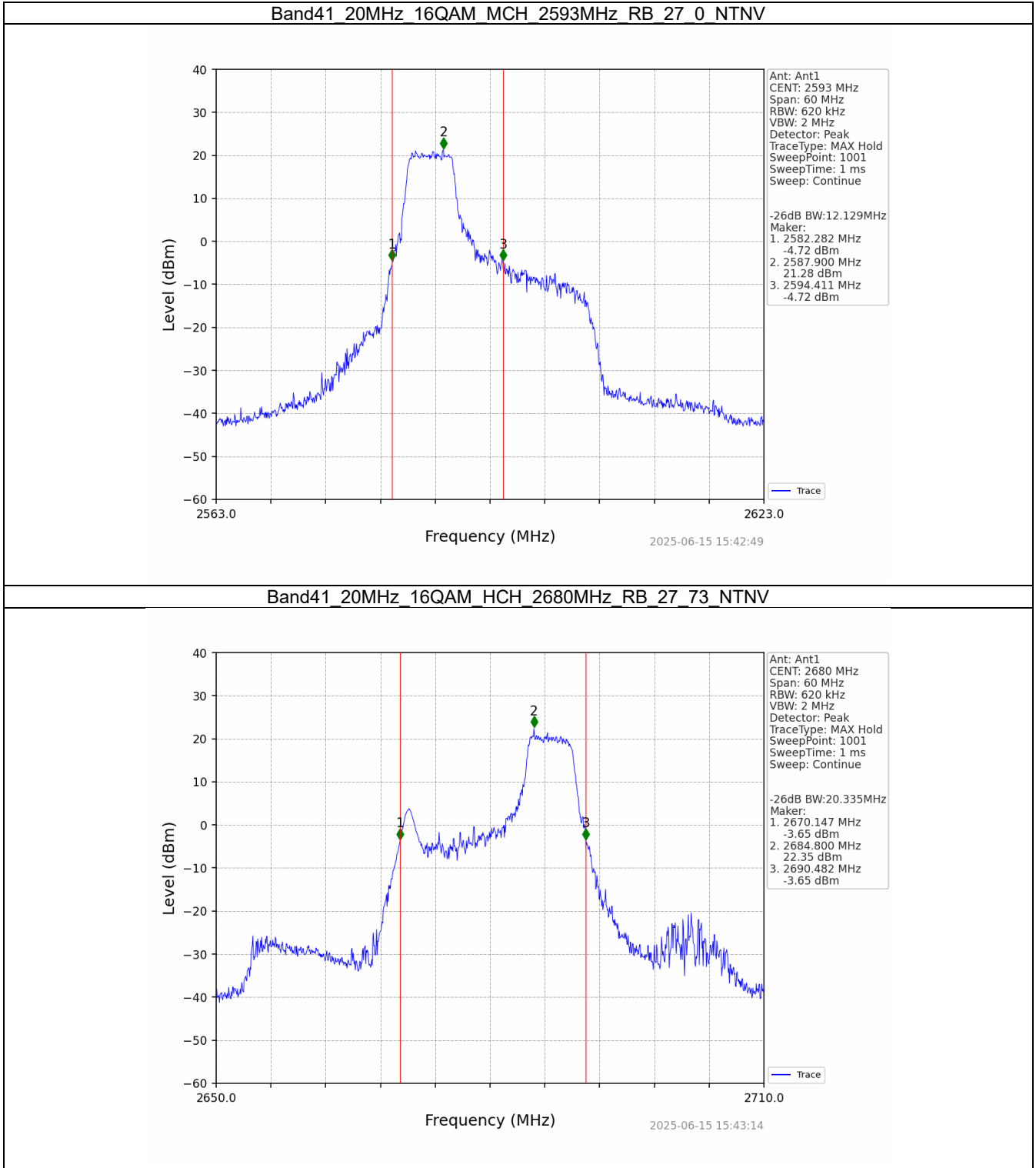












5. Peak-Average Ratio

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.64	<=13	Pass
	2593	25	0	7.47	<=13	Pass
	2687.5	25	0	7.35	<=13	Pass
16QAM	2498.5	25	0	8.06	<=13	Pass
	2593	25	0	8.16	<=13	Pass
	2687.5	25	0	8.00	<=13	Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.81	<=13	Pass
	2593	50	0	7.55	<=13	Pass
	2685	50	0	7.17	<=13	Pass
16QAM	2501	27	0	8.44	<=13	Pass
	2593	27	0	8.22	<=13	Pass
	2685	27	23	8.43	<=13	Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	8.43	<=13	Pass
	2593	75	0	7.61	<=13	Pass
	2682.5	75	0	7.56	<=13	Pass
16QAM	2503.5	27	0	8.67	<=13	Pass
	2593	27	0	7.34	<=13	Pass
	2682.5	27	48	7.78	<=13	Pass

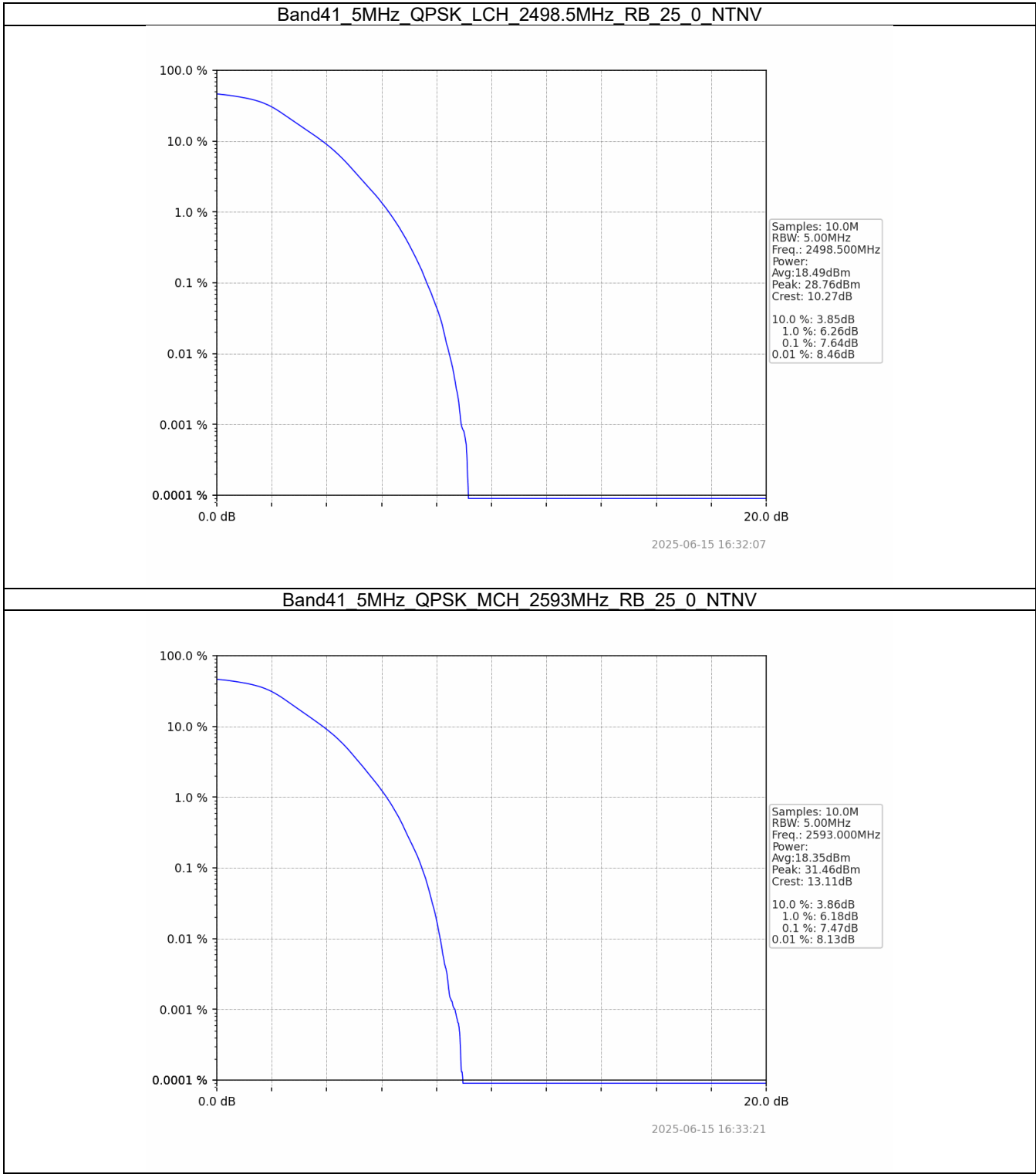
5.1.4 B41_20MHz

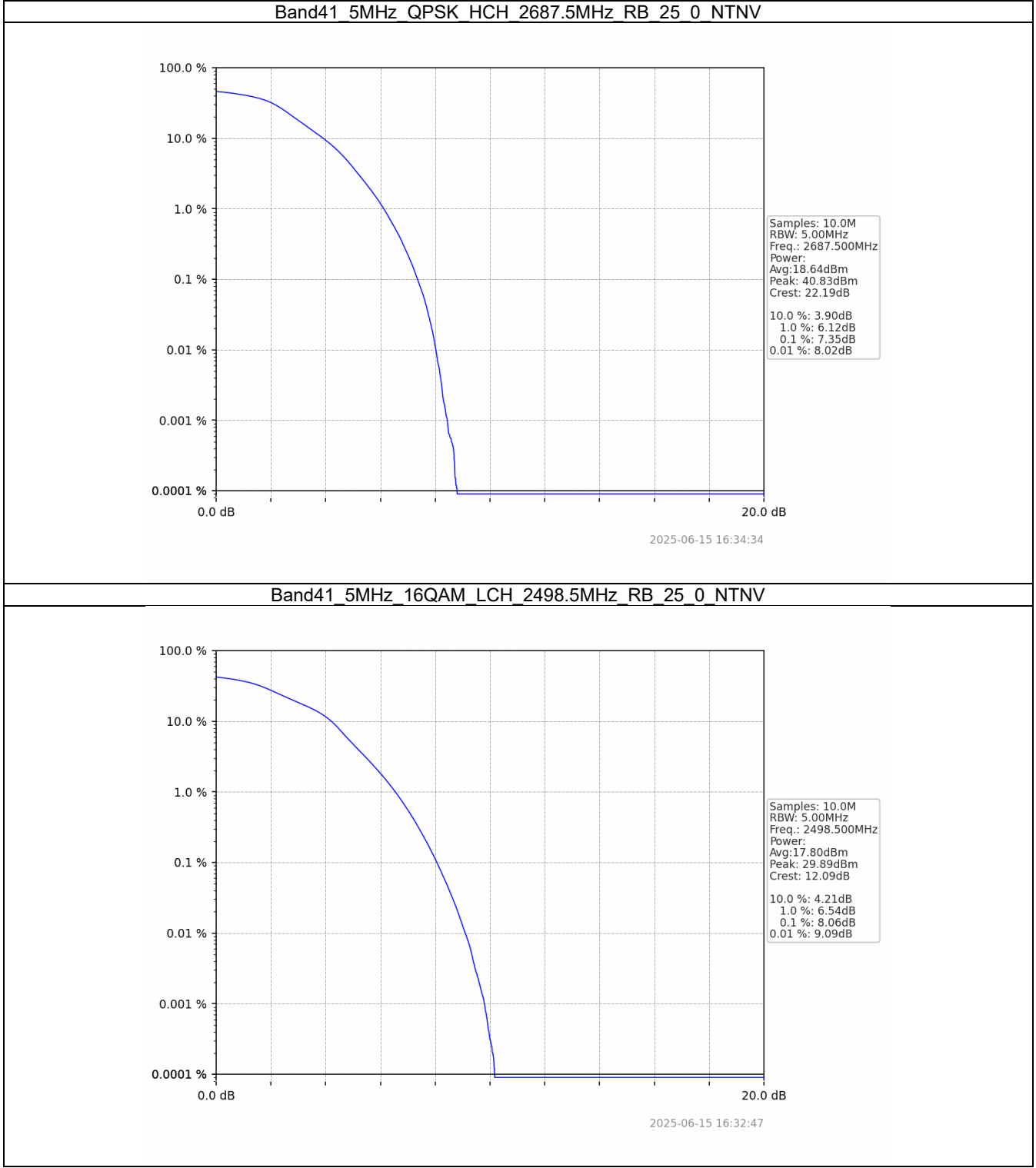
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.83	<=13	Pass
	2593	100	0	7.19	<=13	Pass
	2680	100	0	7.25	<=13	Pass
16QAM	2506	27	0	8.14	<=13	Pass
	2593	27	0	8.31	<=13	Pass

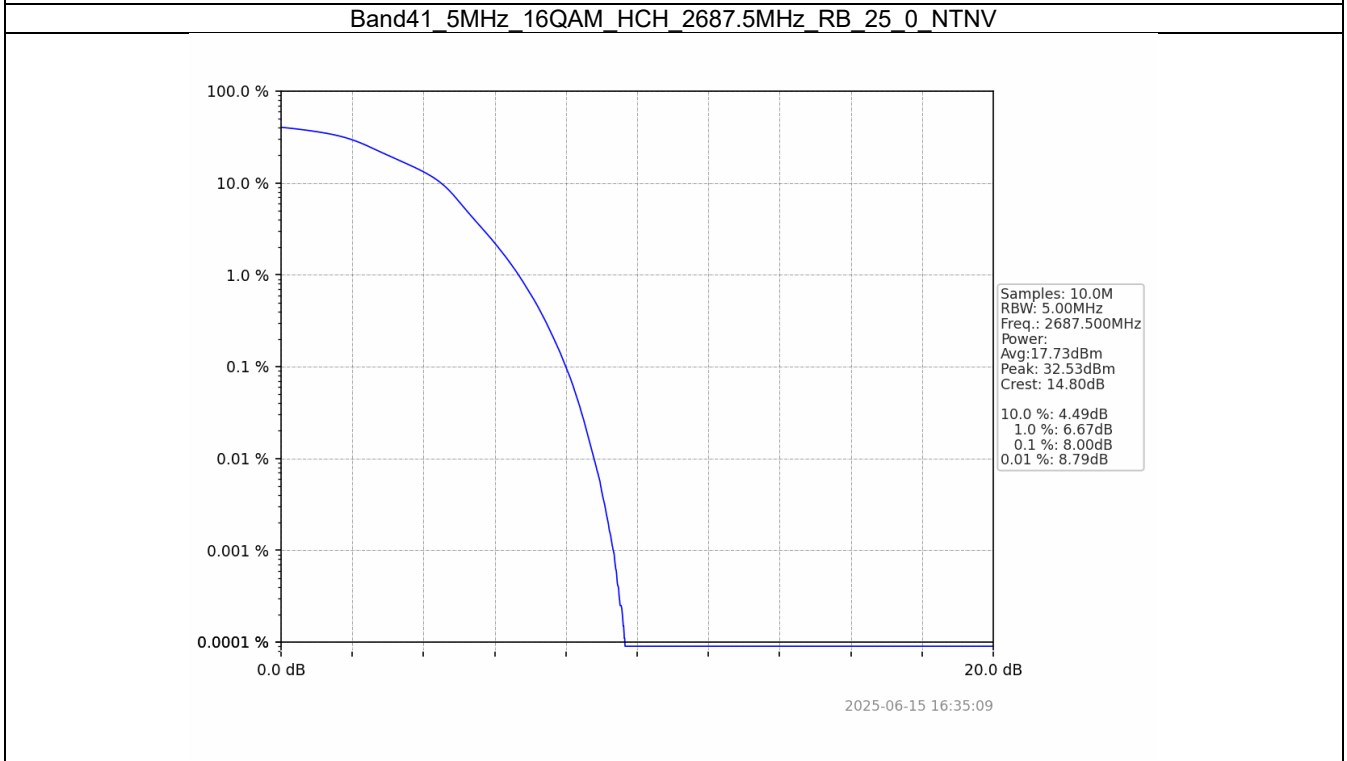
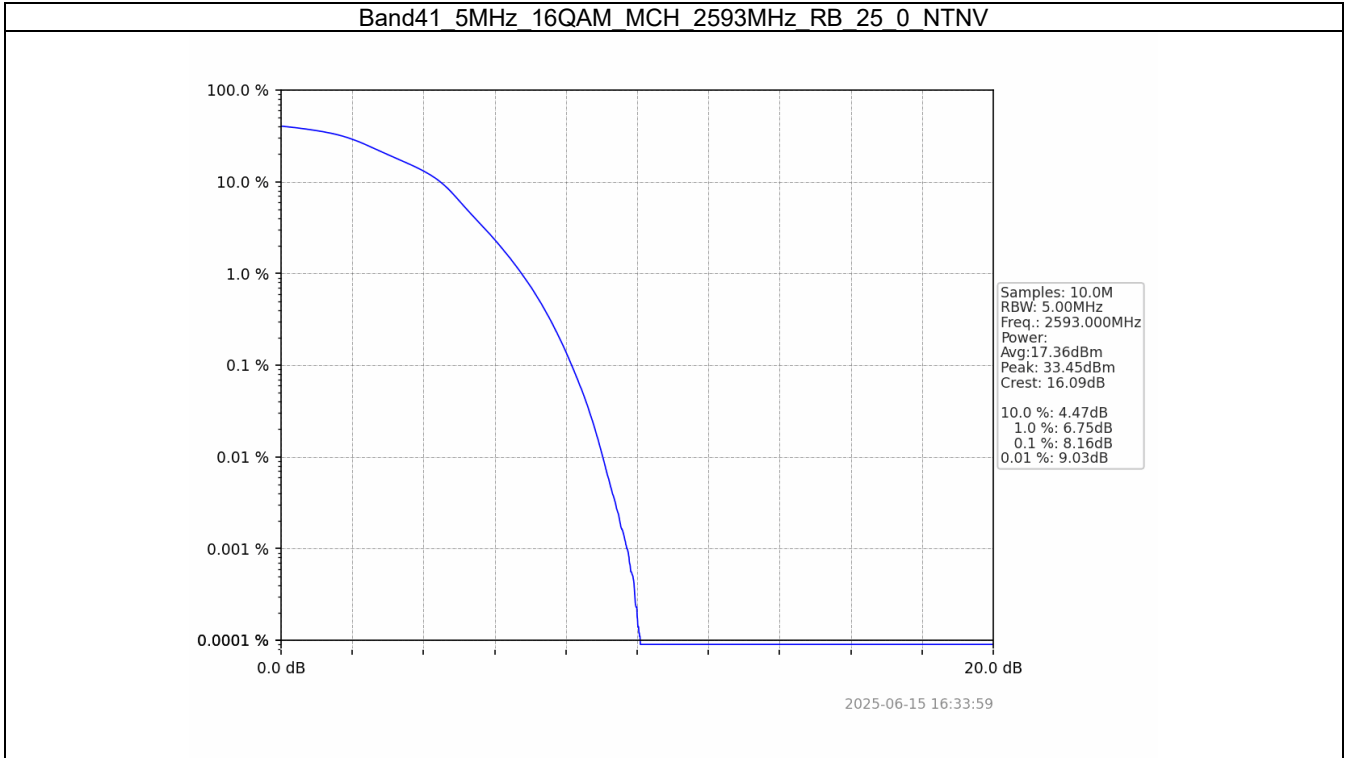
	2680	27	73	8.05	<=13	Pass
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5.2 Test Graph

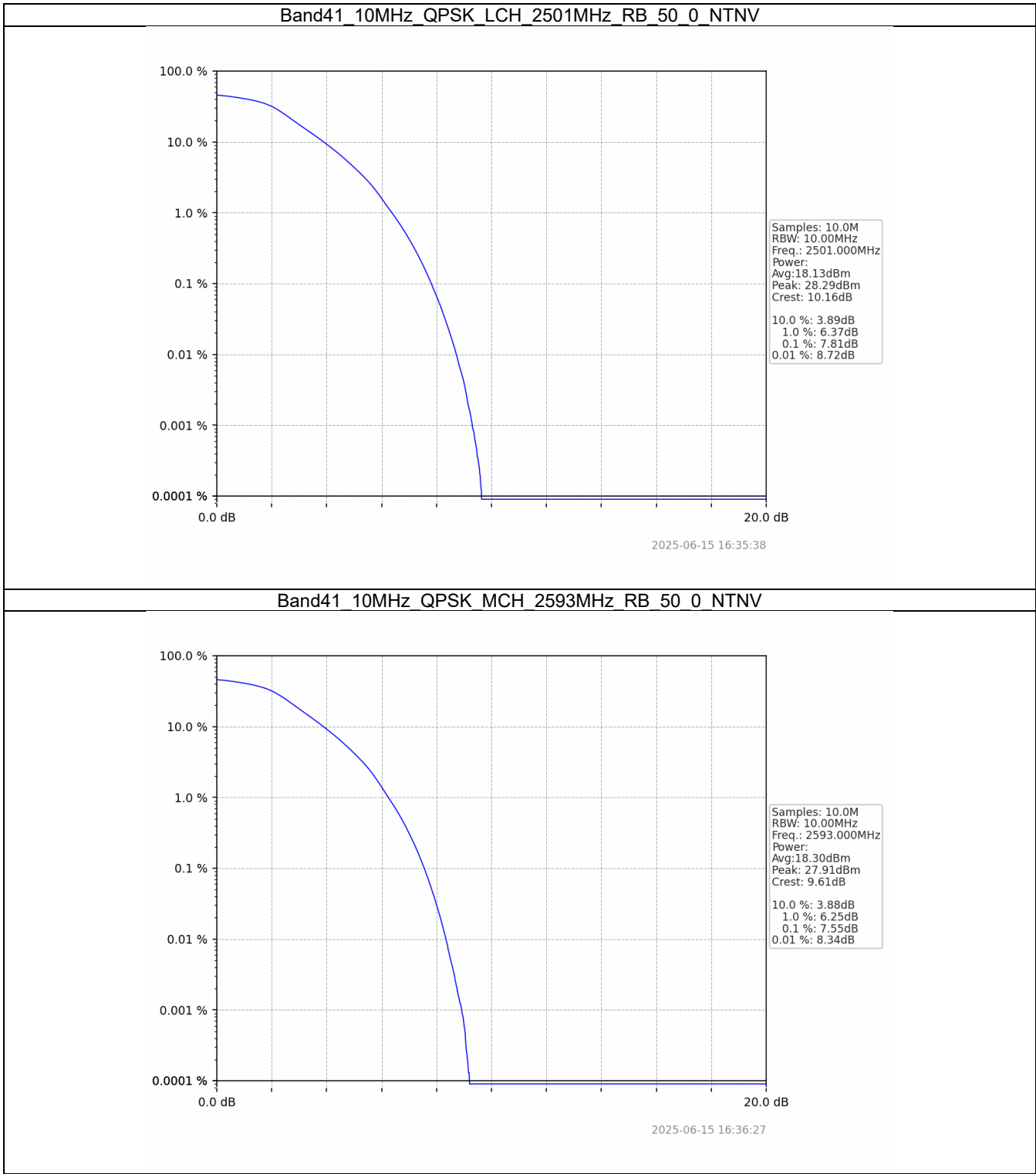
5.2.1 B41_5MHz

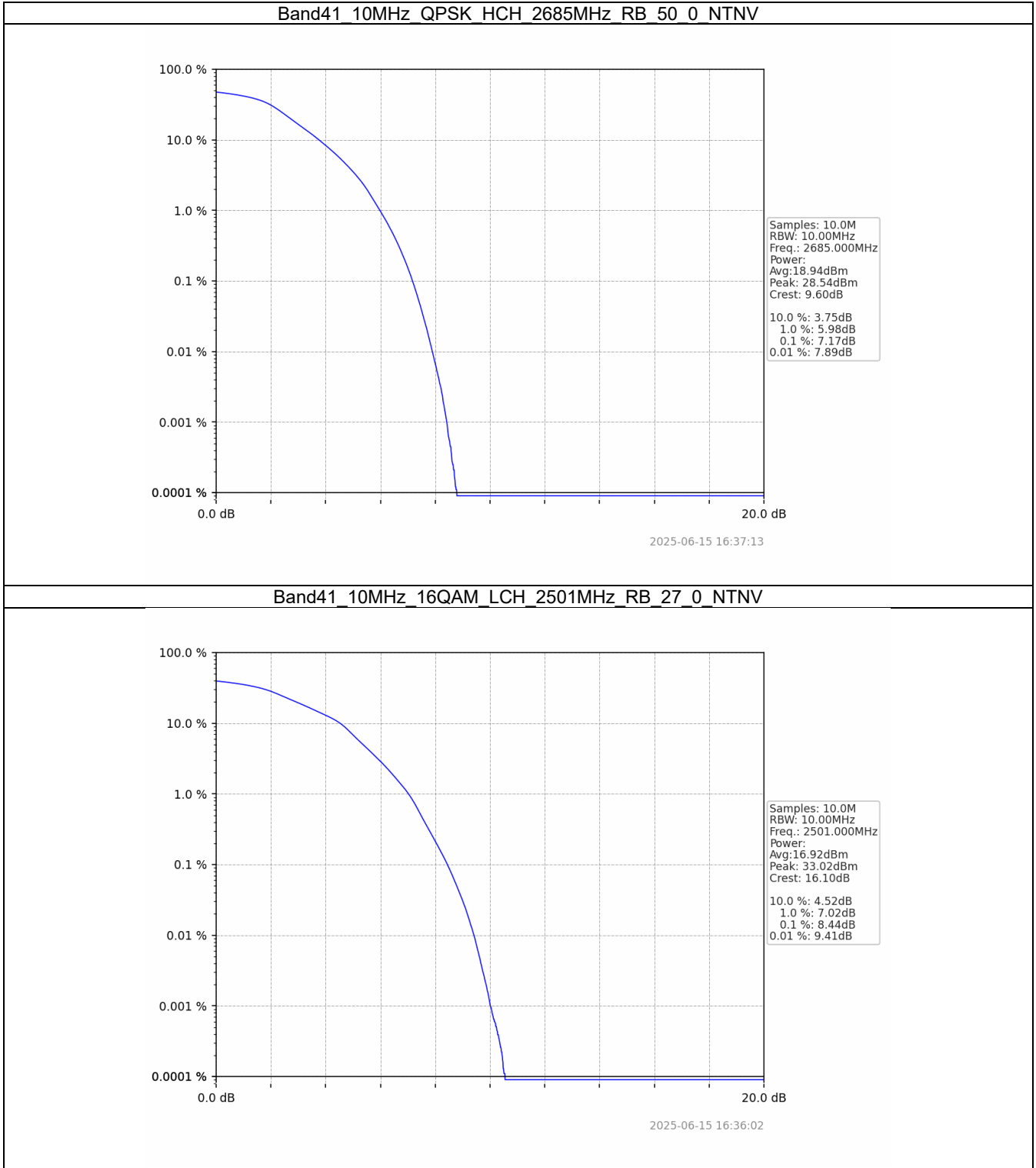


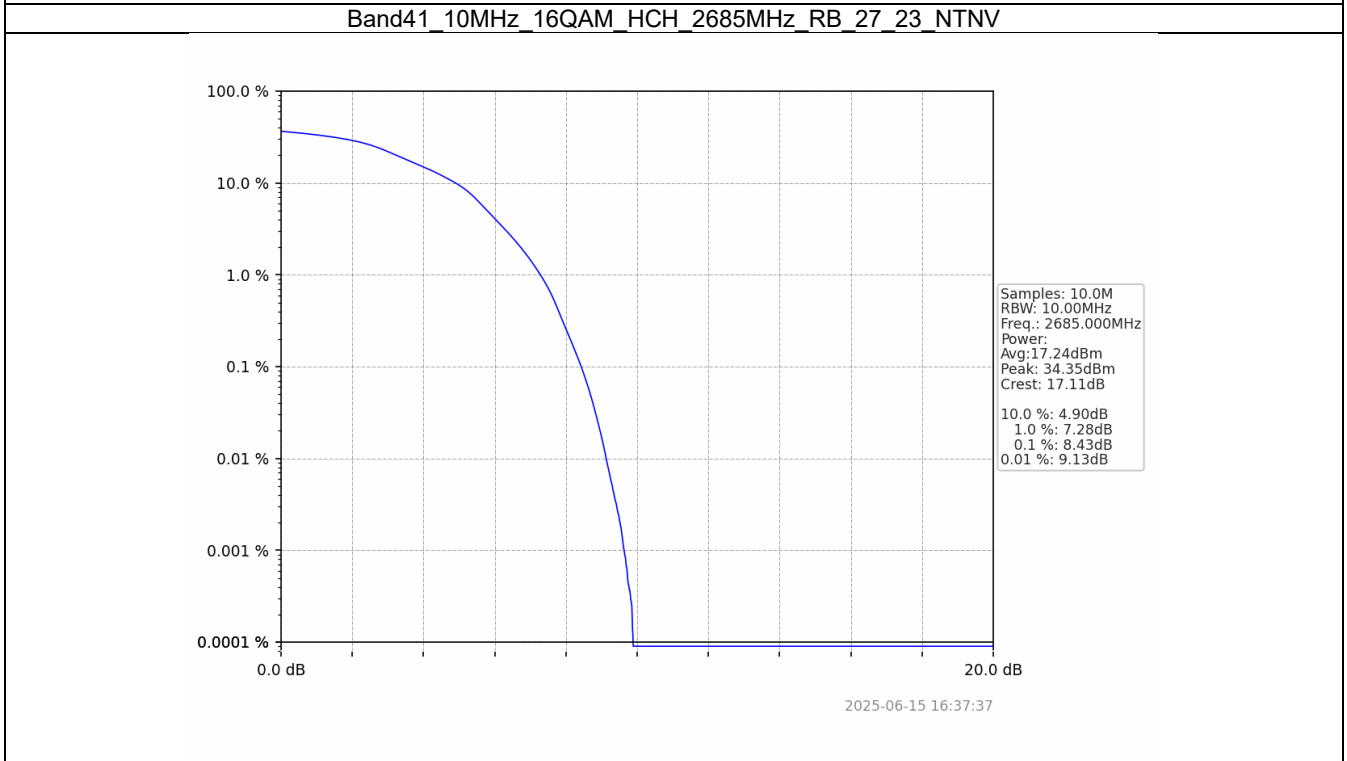
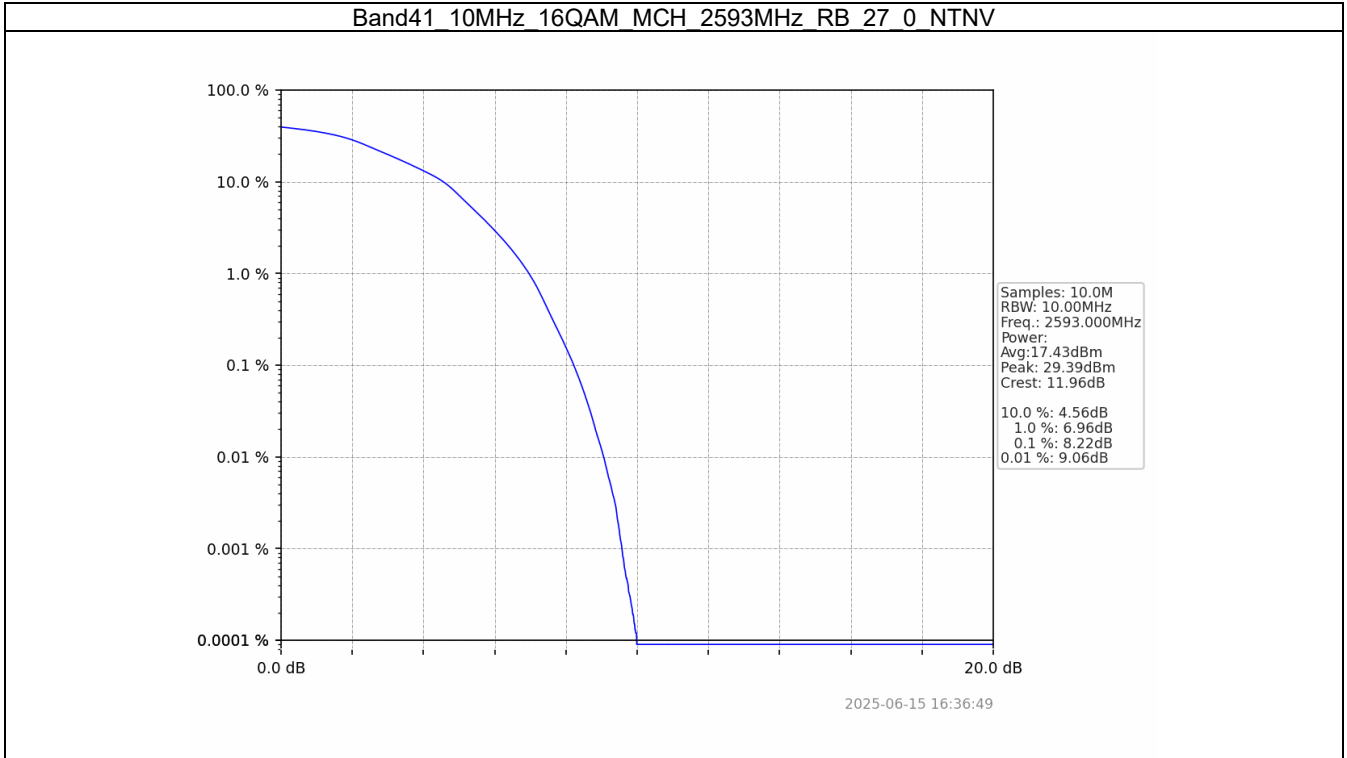




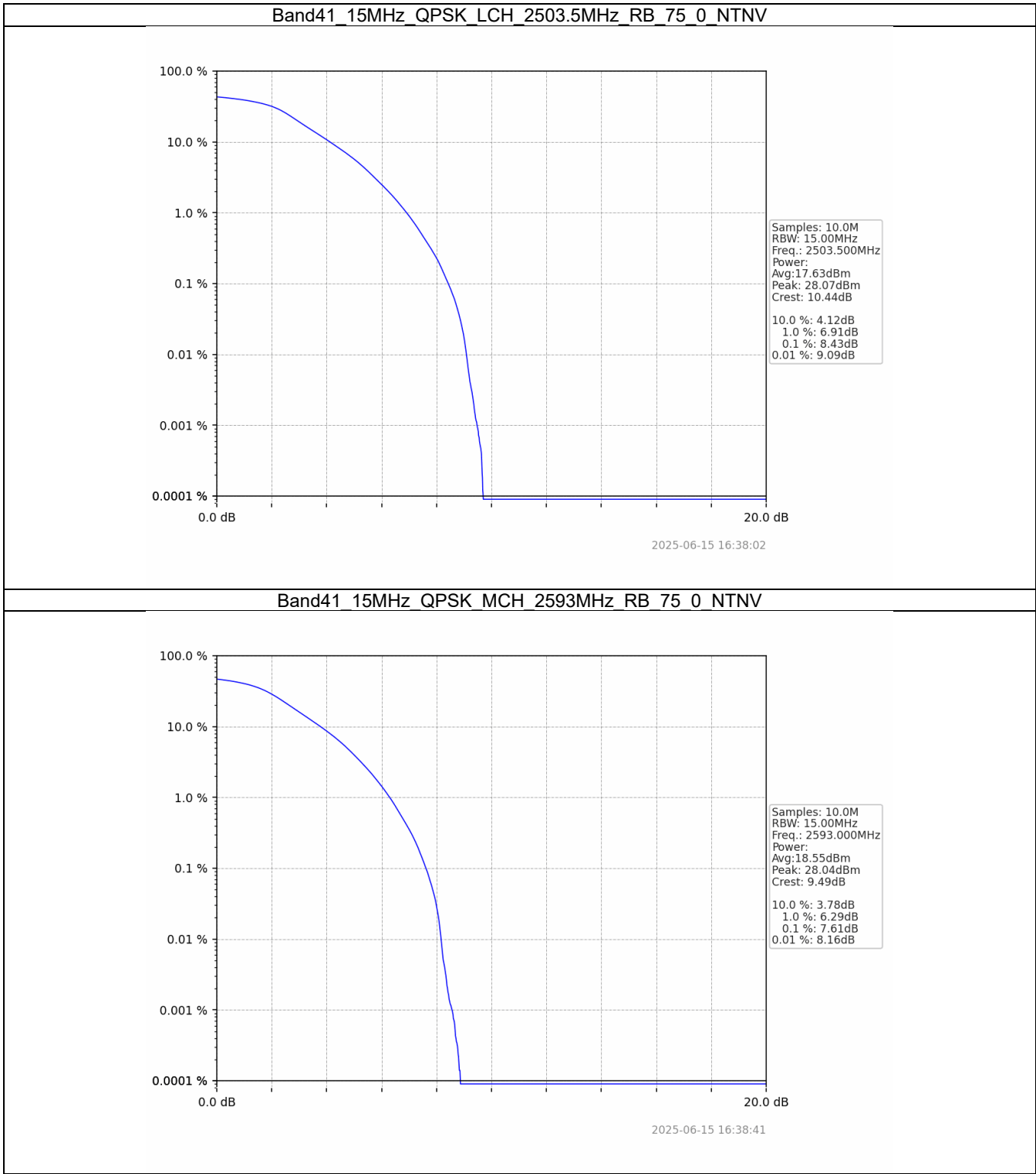
5.2.2 B41_10MHz

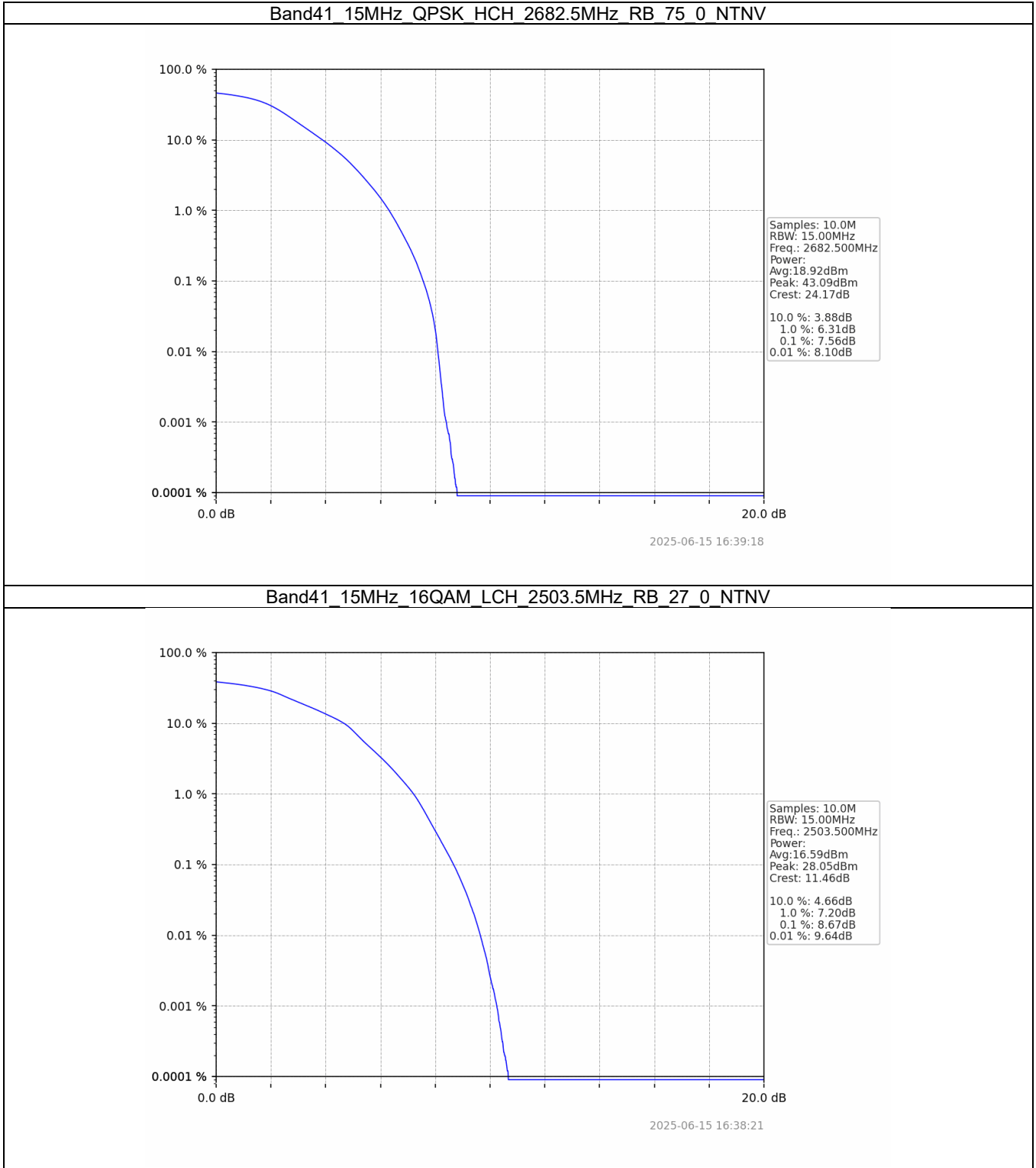


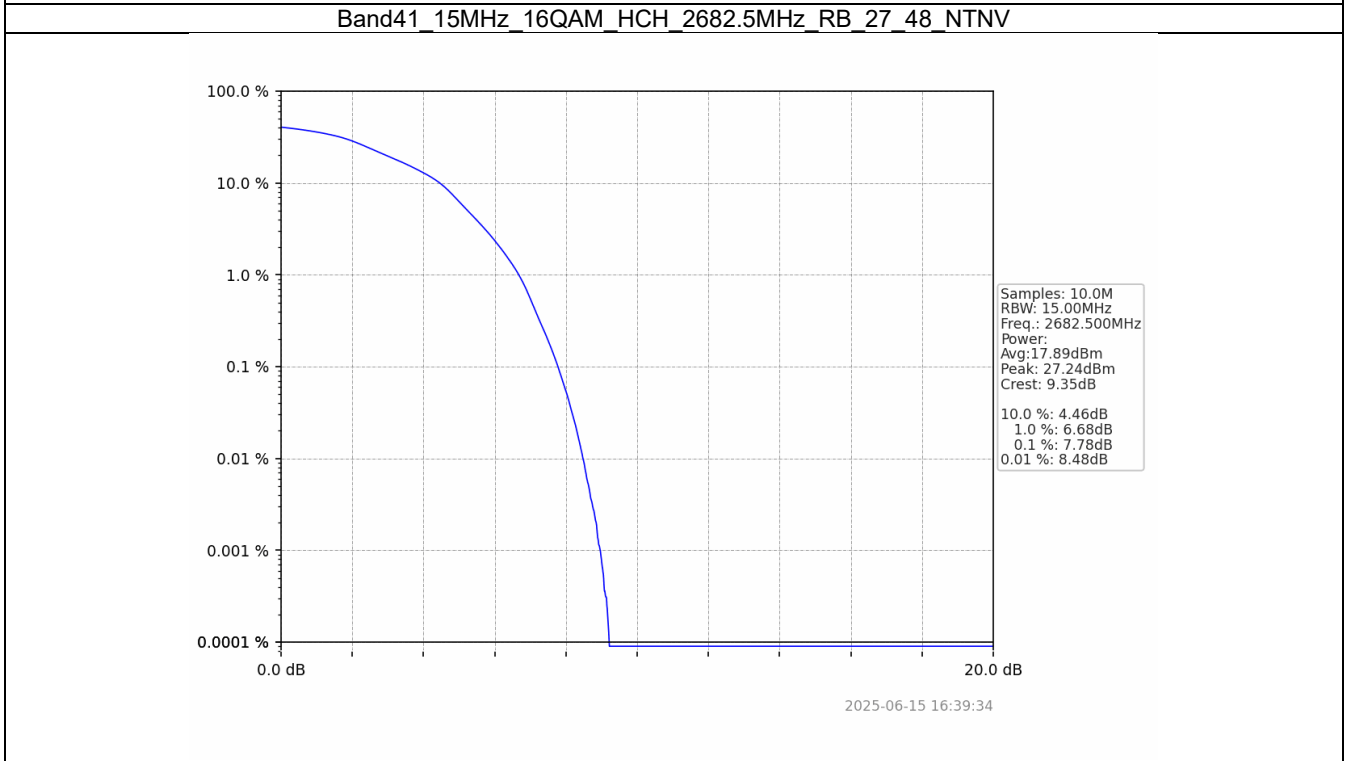
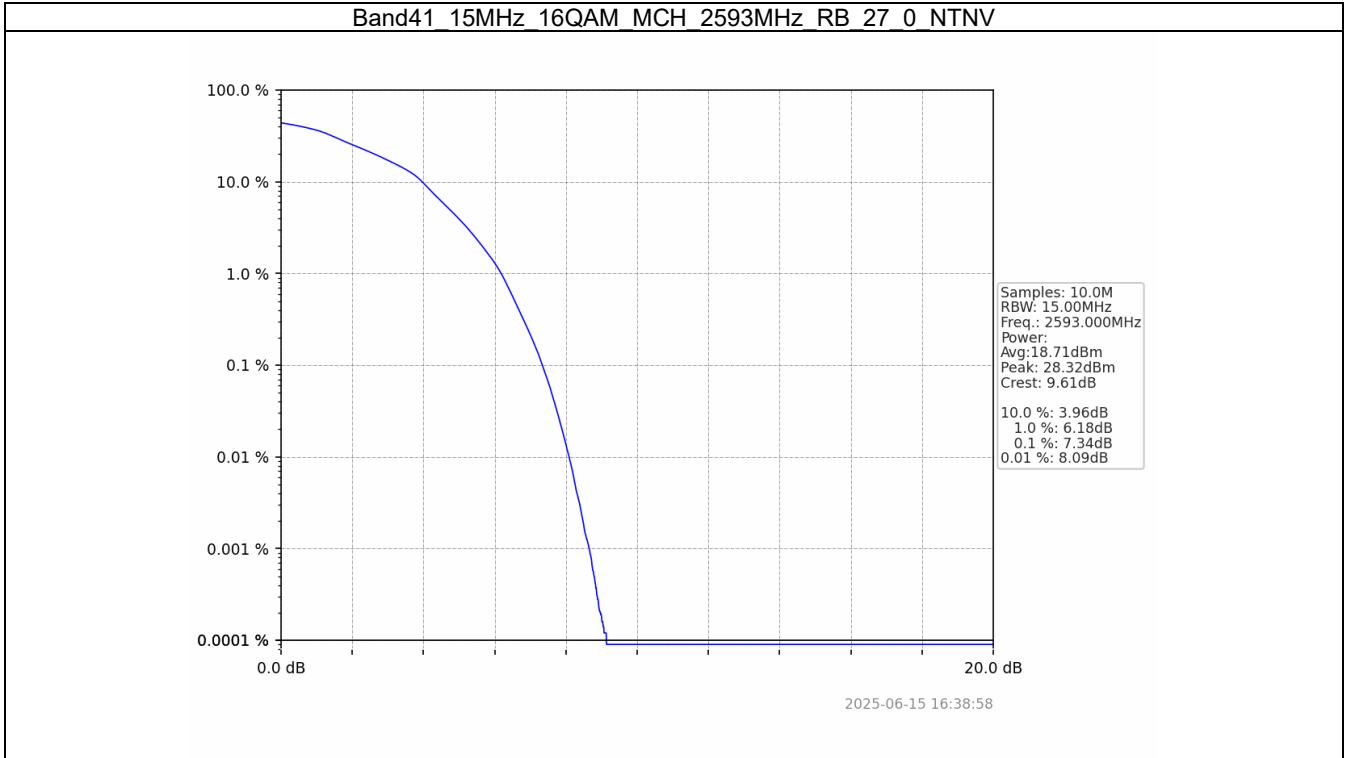




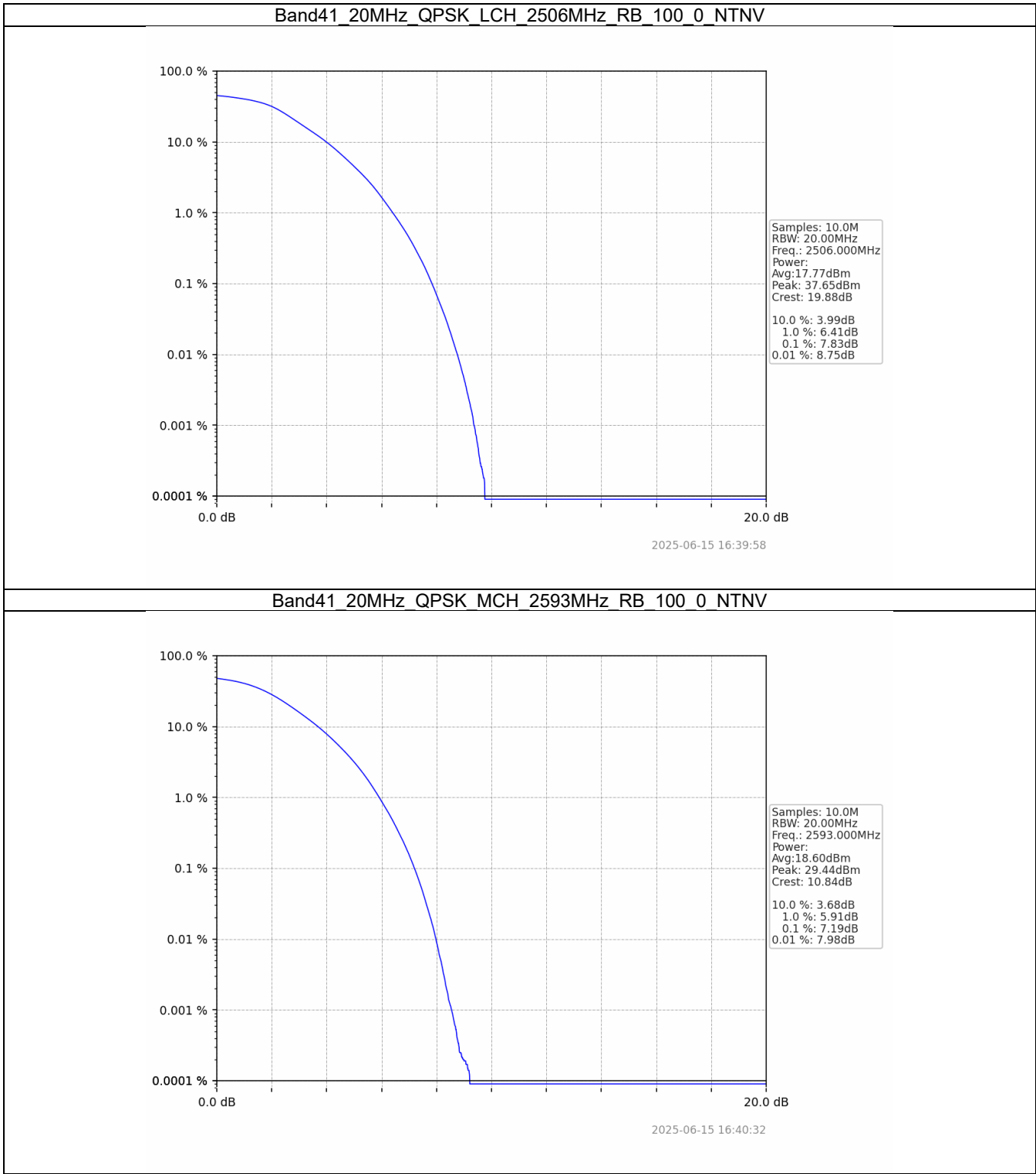
5.2.3 B41_15MHz

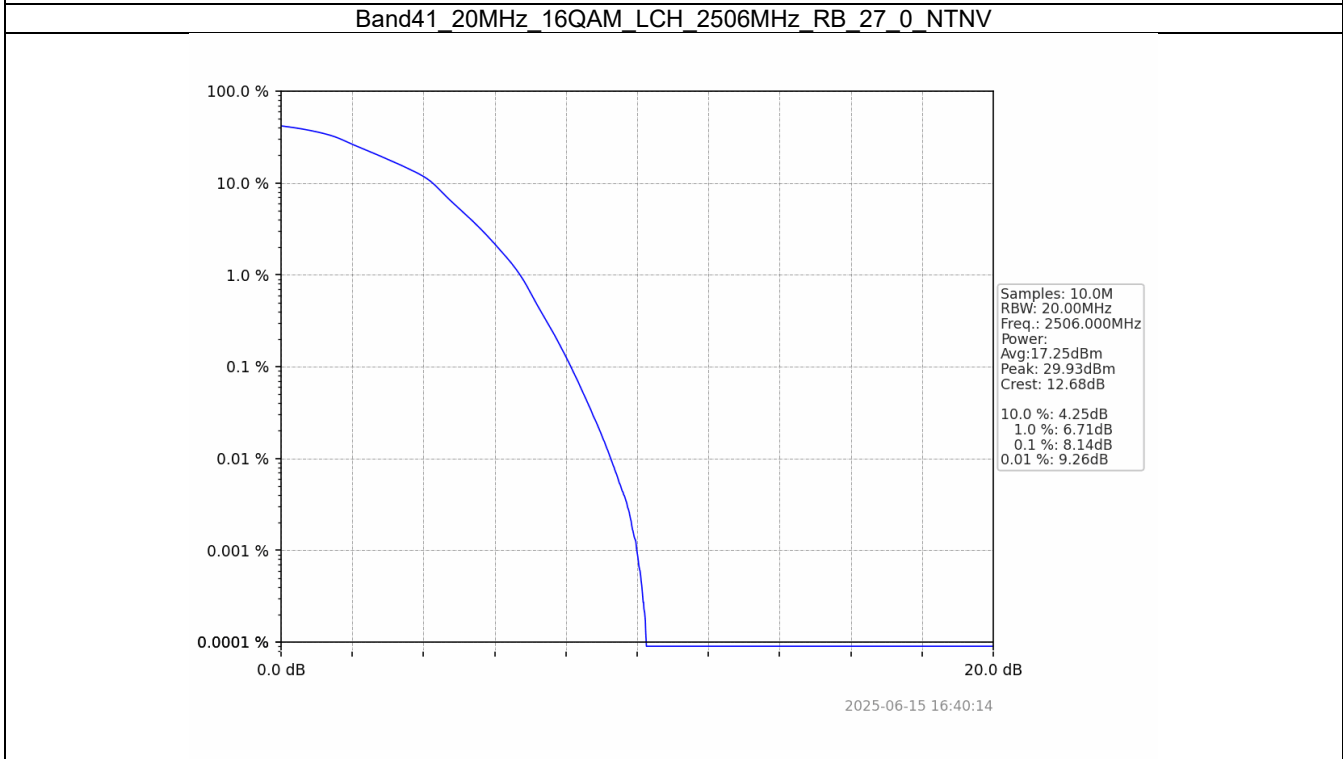
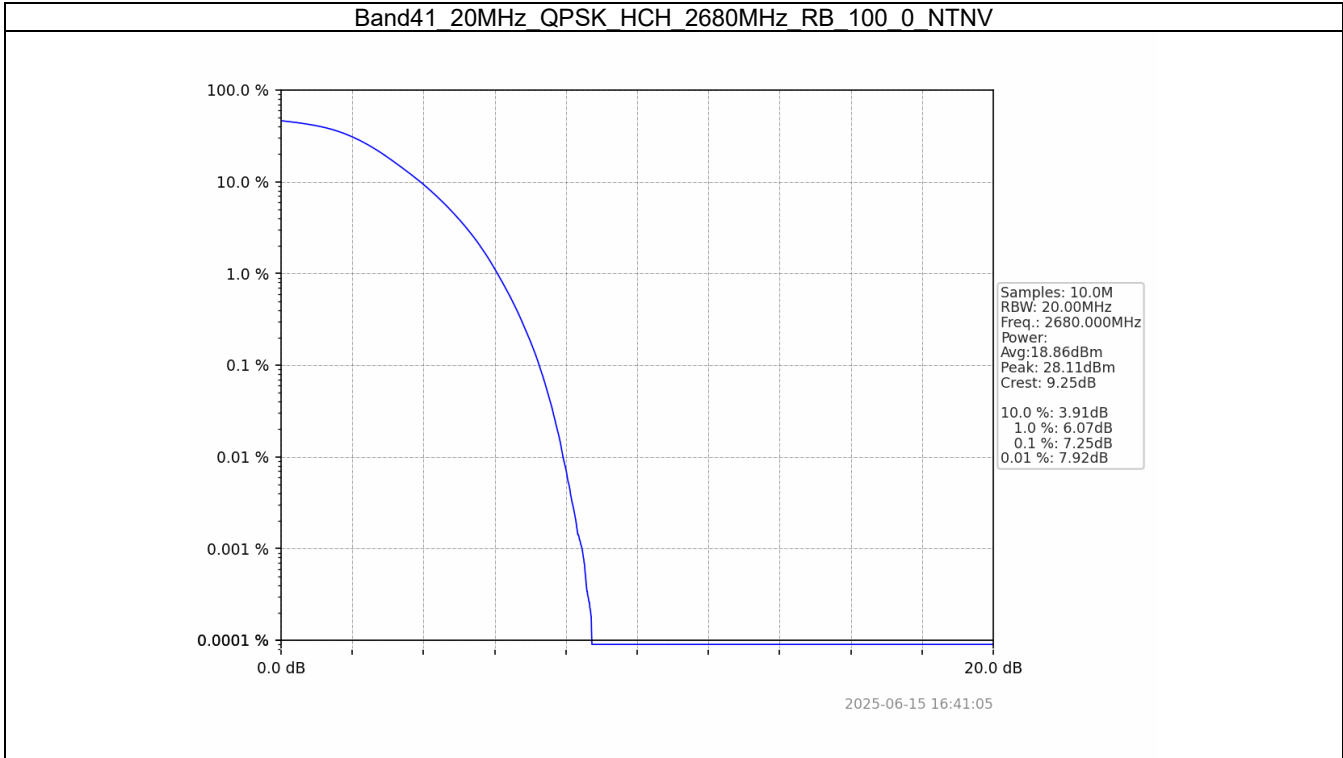


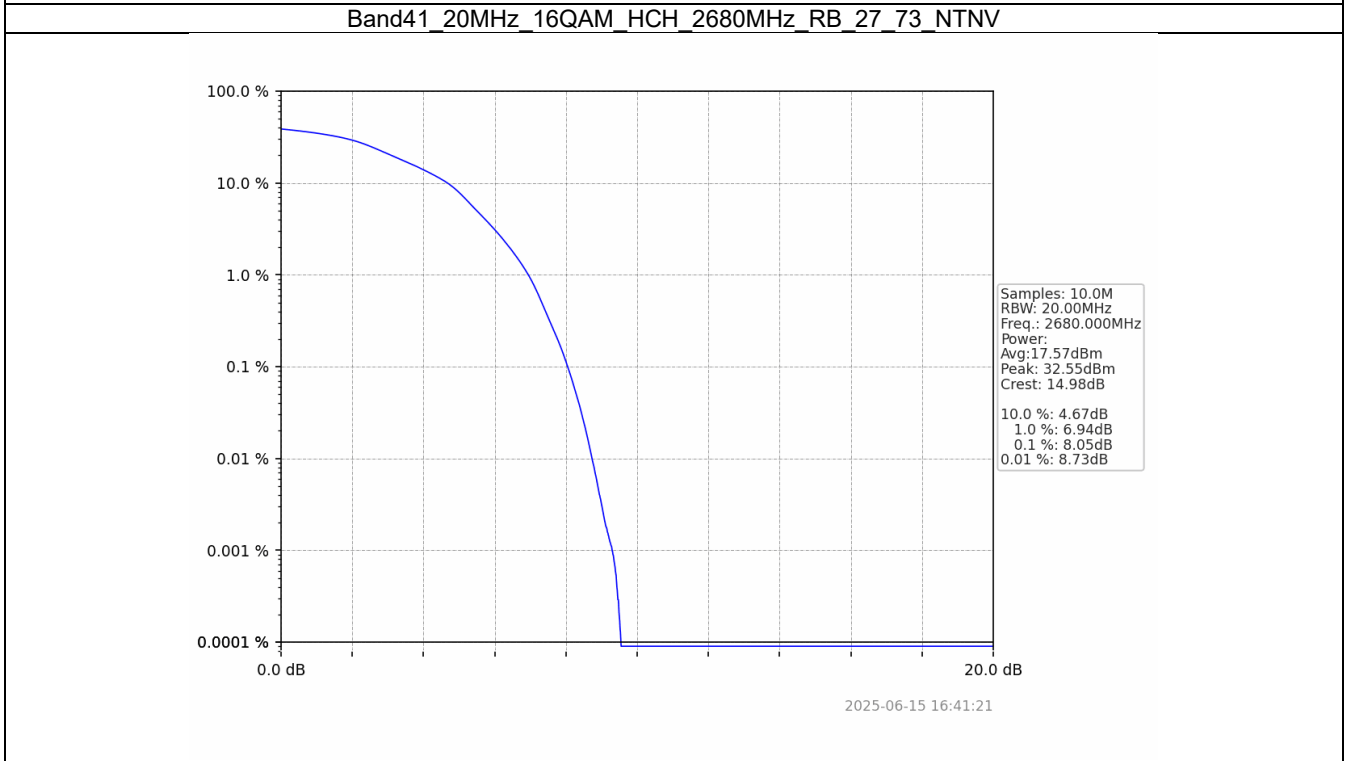
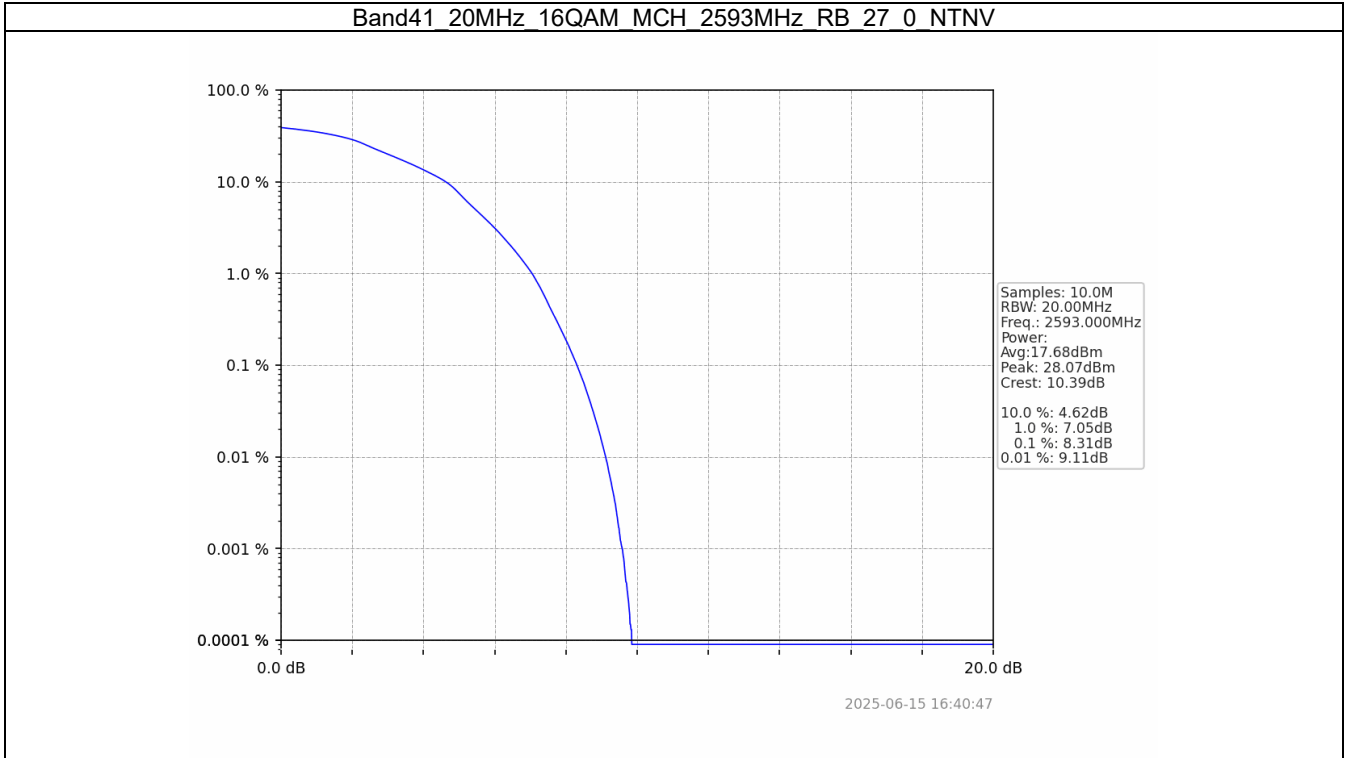




5.2.4 B41_20MHz







6. Spurious Emission

6.1 Test Result

6.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

6.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2501	1	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass

6.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	2503.5	1	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass

			74	Refer To Test Graph	Pass
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6.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2506	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
	2680	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
16QAM	2506	1	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
	2680	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass

6.2 Test Graph

6.2.1 B41_5MHz

