

Discharge Measurement Summary

Site name 08162024-PS
Site number
Operator(s) Sweber
File name 08162024-PS_20240816-111228.ft
Comment

Start time	8/16/2024 9:08 AM	Sensor type	Top Setting
End time	8/16/2024 11:10 AM	Handheld serial number	FT2H2219029
Start location latitude	42.809	Probe serial number	FT2P2219014
Start location longitude	-118.870	Probe firmware	1.30
Calculations engine	FlowTracker2	Handheld software	1.7

# Stations	Avg interval (s)	Total discharge (ft³/s)
86	40	37.4350

Total width (ft)	Total area (ft²)	Wetted Perimeter (ft)
42.500	32.0250	43.281

Mean SNR (dB)	Mean depth (ft)	Mean velocity (ft/s)
25	0.754	1.1689

Mean temp (°F)	Max depth (ft)	Max velocity (ft/s)
58.023	1.030	1.8315

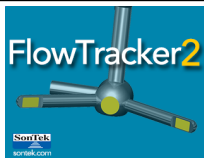
Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.2%	1.5%
Velocity	0.3%	1.6%
Width	0.1%	0.1%
Method	0.9%	
# Stations	0.6%	
Overall	1.5%	2.4%

Discharge equation	Mid Section
Discharge uncertainty	IVE
Discharge reference	Rated

Data Collection Settings	
Salinity	0.000 PSS-78
Temperature	-
Sound speed	-
Mounting correction	0.000 %

Summary overview

No changes were made to this file
Quality control warnings



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Station Warning Settings

Station discharge OK

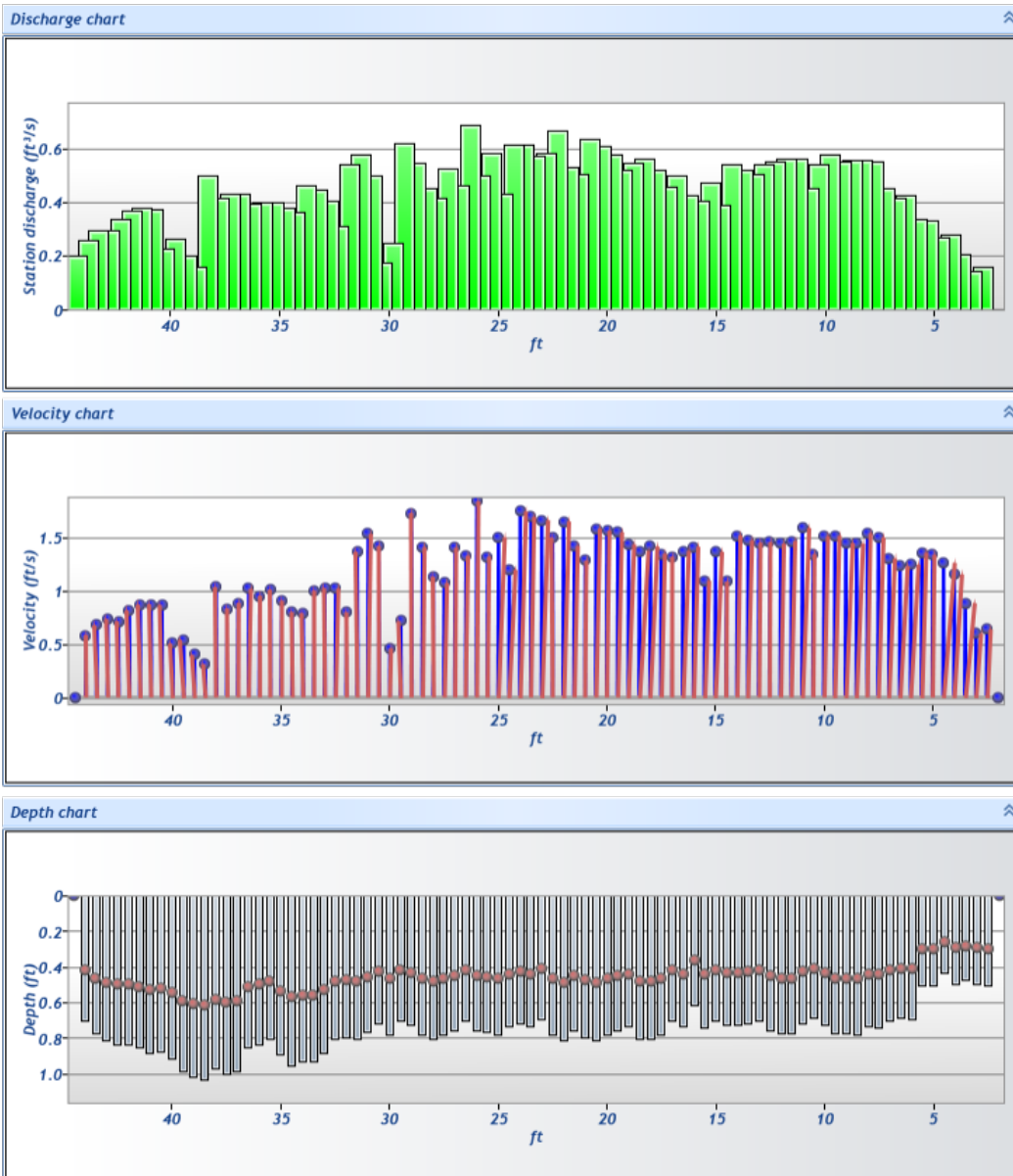
Station discharge < 5.00%

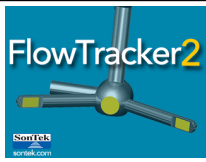
Station discharge caution

5.00% >= Station discharge < 10.00%

Station discharge warning

Station discharge >= 10.00%

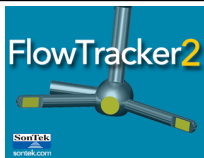




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Measurement results															
Str#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Correction	Mean Velocity (ft/s)	Area (ft ²)	Flow (ft ³ /s)	%Q		
0	9:08 AM	2.000	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.6408	0.0000	0.0000	0.00	✓	
1	9:08 AM	2.500	0.6	0.500	0.6000	0.300	80	0.6408	1.0000	0.6408	0.2500	0.1602	0.43	✓	
2	9:11 AM	3.000	0.6	0.490	0.6000	0.294	80	0.6027	1.0000	0.6027	0.2450	0.1477	0.39	✓	
3	9:12 AM	3.500	0.6	0.470	0.6000	0.282	80	0.8847	1.0000	0.8847	0.2350	0.2079	0.56	✓	
4	9:13 AM	4.000	0.6	0.490	0.6000	0.294	80	1.1503	1.0000	1.1503	0.2450	0.2818	0.75	✓	
5	9:15 AM	4.500	0.6	0.430	0.6000	0.258	80	1.2586	1.0000	1.2586	0.2150	0.2706	0.72	✓	
6	9:16 AM	5.000	0.6	0.500	0.6000	0.300	80	1.3334	1.0000	1.3334	0.2500	0.3334	0.89	✓	
7	9:18 AM	5.500	0.6	0.500	0.6000	0.300	80	1.3532	1.0000	1.3532	0.2500	0.3383	0.90	✓	
8	9:19 AM	6.000	0.6	0.690	0.6000	0.414	80	1.2416	1.0000	1.2416	0.3450	0.4284	1.14	✓	
9	9:20 AM	6.500	0.6	0.680	0.6000	0.408	80	1.2288	1.0000	1.2288	0.3400	0.4178	1.12	✓	
10	9:22 AM	7.000	0.6	0.700	0.6000	0.420	80	1.2986	1.0000	1.2986	0.3500	0.4545	1.21	✓	
11	9:23 AM	7.500	0.6	0.740	0.6000	0.444	80	1.4950	1.0000	1.4950	0.3700	0.5531	1.48	✓	
12	9:24 AM	8.000	0.6	0.730	0.6000	0.438	80	1.5354	1.0000	1.5354	0.3650	0.5694	1.50	✓	
13	9:26 AM	8.500	0.6	0.780	0.6000	0.468	80	1.4374	1.0000	1.4374	0.3900	0.5606	1.50	✓	
14	9:27 AM	9.000	0.6	0.770	0.6000	0.462	80	1.4425	1.0000	1.4425	0.3850	0.5553	1.48	✓	
15	9:28 AM	9.500	0.6	0.770	0.6000	0.462	80	1.5111	1.0000	1.5111	0.3850	0.5818	1.55	✓	
16	9:30 AM	10.000	0.6	0.720	0.6000	0.432	80	1.5070	1.0000	1.5070	0.3600	0.5425	1.45	✓	
17	9:31 AM	10.500	0.6	0.680	0.6000	0.408	80	1.3389	1.0000	1.3389	0.3400	0.4552	1.22	✓	
18	9:32 AM	11.000	0.6	0.710	0.6000	0.426	80	1.5837	1.0000	1.5837	0.3550	0.5622	1.50	✓	
19	9:33 AM	11.500	0.6	0.770	0.6000	0.462	80	1.4620	1.0000	1.4620	0.3850	0.5629	1.50	✓	
20	9:35 AM	12.000	0.6	0.770	0.6000	0.462	80	1.4381	1.0000	1.4381	0.3850	0.5537	1.48	✓	
21	9:36 AM	12.500	0.6	0.750	0.6000	0.450	80	1.4523	1.0000	1.4523	0.3750	0.5446	1.45	✓	
22	9:37 AM	13.000	0.6	0.700	0.6000	0.420	80	1.4476	1.0000	1.4476	0.3500	0.5067	1.35	✓	
23	9:39 AM	13.500	0.6	0.710	0.6000	0.426	80	1.4693	1.0000	1.4693	0.3550	0.5216	1.39	✓	
24	9:40 AM	14.000	0.6	0.720	0.6000	0.432	80	1.5133	1.0000	1.5133	0.3600	0.5448	1.46	✓	
25	9:41 AM	14.500	0.6	0.720	0.6000	0.432	80	1.0835	1.0000	1.0835	0.3600	0.3901	1.04	✓	
26	9:44 AM	15.000	0.6	0.700	0.6000	0.420	80	1.3610	1.0000	1.3610	0.3500	0.4763	1.27	✓	
27	9:45 AM	15.500	0.6	0.740	0.6000	0.444	80	1.0928	1.0000	1.0928	0.3700	0.4043	1.08	✓	
28	9:46 AM	16.000	0.6	0.610	0.6000	0.366	80	1.4087	1.0000	1.4087	0.3050	0.4297	1.15	✓	
29	9:48 AM	16.500	0.6	0.730	0.6000	0.438	80	1.3699	1.0000	1.3699	0.3650	0.5000	1.34	✓	
30	9:49 AM	17.000	0.6	0.700	0.6000	0.420	80	1.3162	1.0000	1.3162	0.3500	0.4607	1.23	✓	
31	9:51 AM	17.500	0.6	0.780	0.6000	0.468	80	1.3444	1.0000	1.3444	0.3900	0.5243	1.40	✓	
32	9:52 AM	18.000	0.6	0.800	0.6000	0.480	80	1.4123	1.0000	1.4123	0.4000	0.5649	1.51	✓	
33	9:53 AM	18.500	0.6	0.800	0.6000	0.480	80	1.3698	1.0000	1.3698	0.4000	0.5479	1.46	✓	
34	9:55 AM	19.000	0.6	0.730	0.6000	0.438	80	1.4304	1.0000	1.4304	0.3650	0.5221	1.39	✓	
35	9:56 AM	19.500	0.6	0.750	0.6000	0.450	80	1.5436	1.0000	1.5436	0.3750	0.5788	1.55	✓	
36	9:57 AM	20.000	0.6	0.780	0.6000	0.468	80	1.5593	1.0000	1.5593	0.3900	0.6081	1.62	✓	
37	9:59 AM	20.500	0.6	0.810	0.6000	0.486	80	1.5774	1.0000	1.5774	0.4050	0.6388	1.71	✓	
38	10:00 AM	21.000	0.6	0.790	0.6000	0.474	80	1.2793	1.0000	1.2793	0.3950	0.5053	1.35	✓	
39	10:02 AM	21.500	0.6	0.750	0.6000	0.450	80	1.4166	1.0000	1.4166	0.3750	0.5312	1.42	✓	
40	10:03 AM	22.000	0.6	0.810	0.6000	0.486	80	1.6450	1.0000	1.6450	0.4050	0.6662	1.78	✓	
41	10:04 AM	22.500	0.6	0.780	0.6000	0.468	80	1.4928	1.0000	1.4928	0.3900	0.5822	1.56	✓	
42	10:05 AM	23.000	0.6	0.690	0.6000	0.414	80	1.6563	1.0000	1.6563	0.3450	0.5714	1.53	✓	
43	10:07 AM	23.500	0.6	0.730	0.6000	0.438	80	1.6865	1.0000	1.6865	0.3650	0.6156	1.64	✓	
44	10:08 AM	24.000	0.6	0.710	0.6000	0.426	80	1.7380	1.0000	1.7380	0.3550	0.6170	1.65	✓	
45	10:10 AM	24.500	0.6	0.730	0.6000	0.438	80	1.1935	1.0000	1.1935	0.3650	0.4356	1.16	✓	
46	10:12 AM	25.000	0.6	0.780	0.6000	0.468	80	1.4966	1.0000	1.4966	0.3900	0.5837	1.56	✓	
47	10:13 AM	25.500	0.6	0.760	0.6000	0.456	80	1.3164	1.0000	1.3164	0.3800	0.5002	1.34	✓	
48	10:15 AM	26.000	0.6	0.750	0.6000	0.450	80	1.8315	1.0000	1.8315	0.3750	0.6868	1.83	✓	
49	10:16 AM	26.500	0.6	0.700	0.6000	0.420	80	1.3250	1.0000	1.3250	0.3500	0.4638	1.24	✓	
50	10:18 AM	27.000	0.6	0.750	0.6000	0.450	80	1.4015	1.0000	1.4015	0.3750	0.5256	1.40	✓	
51	10:20 AM	27.500	0.6	0.780	0.6000	0.468	80	1.0703	1.0000	1.0703	0.3900	0.4174	1.12	✓	
52	10:22 AM	28.000	0.6	0.800	0.6000	0.480	80	1.1288	1.0000	1.1288	0.4000	0.4515	1.21	✓	
53	10:24 AM	28.500	0.6	0.780	0.6000	0.468	80	1.4041	1.0000	1.4041	0.3900	0.5476	1.46	✓	
54	10:25 AM	29.000	0.6	0.720	0.6000	0.432	80	1.7234	1.0000	1.7234	0.3600	0.6204	1.66	✓	
55	10:27 AM	29.500	0.6	0.700	0.6000	0.420	80	0.7171	1.0000	0.7171	0.3500	0.2510	0.67	✓	
56	10:29 AM	30.000	0.6	0.780	0.6000	0.468	80	0.4600	1.0000	0.4600	0.3900	0.1794	0.48	✓	
57	10:31 AM	30.500	0.6	0.710	0.6000	0.426	80	1.4163	1.0000	1.4163	0.3550	0.5028	1.34	✓	
58	10:33 AM	31.000	0.6	0.760	0.6000	0.456	80	1.5292	1.0000	1.5292	0.3800	0.5811	1.55	✓	
59	10:34 AM	31.500	0.6	0.800	0.6000	0.480	80	1.3623	1.0000	1.3623	0.4000	0.5449	1.46	✓	
60	10:35 AM	32.000	0.6	0.790	0.6000	0.474	80	0.7952	1.0000	0.7952	0.3950	0.3141	0.84	✓	
61	10:37 AM	32.500	0.6	0.800	0.6000	0.480	80	1.0215	1.0000	1.0215	0.4000	0.4086	1.09	✓	
62	10:38 AM	33.000	0.6	0.880	0.6000	0.528	80	1.0256	1.0000	1.0256	0.4400	0.4513	1.21	✓	
63	10:40 AM	33.500	0.6	0.930	0.6000	0.558	80	1.0015	1.0000	1.0015	0.4650	0.4657	1.24	✓	
64	10:41 AM	34.000	0.6	0.930	0.6000	0.558	80	0.7879	1.0000	0.7879	0.4650	0.3664	0.98	✓	
65	10:43 AM	34.500	0.6	0.950	0.6000	0.570	80	0.7996	1.0000	0.7996	0.4750	0.3798	1.01	✓	
66	10:44 AM	35.000	0.6	0.890	0.6000	0.534	80	0.9048	1.0000	0.9048	0.4450	0.4026	1.08	✓	
67	10:45 AM	35.500	0.6	0.800	0.6000	0.480	80	1.0086	1.0000	1.0086	0.4000	0.4035	1.08	✓	
68	10:47 AM	36.000	0.6	0.830	0.6000	0.498	80	0.9518	1.0000	0.9518	0.4150	0.3950	1.06	✓	
69	10:48 AM	36.500	0.6	0.850	0.6000	0.510	80	1.0180	1.0000	1.0180	0.4250	0.4327	1.16	✓	
70	10:49 AM	37.000	0.6	0.980	0.6000	0.588	80	0.8827	1.0000	0.8827	0.4900	0.4325	1.16	✓	
71	10:51 AM	37.500	0.6	1.000	0.6000	0.600	80	0.8334	1.0000	0.8334	0.5000	0.4167	1.11	✓	
72	10:52 AM	38.000	0.6	0.970	0.6000	0.582	80	1.0308	1.0000	1.0308	0.4850	0.4999	1.34	✓	
73	10:53 AM	38.500	0.6	1.030	0.6000	0.618	80	0.3175	1.0000	0.3175	0.5150	0.1635	0.44	✓	
74	10:55 AM	39.000	0.6	1.010	0.6000	0.606	80	0.4028	1.0000	0.4028	0.5050	0.2034	0.54	✓	
75	10:57 AM	39.500	0.6	0.980	0.6000	0.588	80	0.5441	1.0000	0.5441	0.4900	0.2666	0.71	✓	
76	10:58 AM	40.000	0.6	0.910	0.6000	0.546	80	0.5087	1.0000	0.5087	0.4550	0.2315	0.62	✓	
77	10:59 AM	40.500	0.6	0.870	0.6000	0.522	80	0.8647	1.0000	0.8647	0.4350	0.3761	1.00	✓	</



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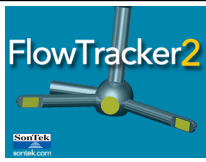
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Quality Control Settings

Maximum depth change 50.00%
Maximum spacing change 100.00%
SNR threshold 10 dB
Standard error threshold 0.0328 ft/s
Spike threshold 10.00%
Maximum velocity angle 20.0 deg
Maximum tilt angle 5.0 deg

Quality control warnings

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Warnings
2	9:11 AM	3.000	0.6	0.490	0.6000	0.294	Velocity Angle > QC
3	9:12 AM	3.500	0.6	0.470	0.6000	0.282	Velocity Angle > QC
5	9:15 AM	4.500	0.6	0.430	0.6000	0.258	Velocity Angle > QC
25	9:41 AM	14.500	0.6	0.720	0.6000	0.432	Standard Error > QC
26	9:44 AM	15.000	0.6	0.700	0.6000	0.420	Standard Error > QC
27	9:45 AM	15.500	0.6	0.740	0.6000	0.444	Standard Error > QC
28	9:46 AM	16.000	0.6	0.610	0.6000	0.366	Standard Error > QC
30	9:49 AM	17.000	0.6	0.700	0.6000	0.420	Standard Error > QC
31	9:51 AM	17.500	0.6	0.780	0.6000	0.468	Standard Error > QC
33	9:53 AM	18.500	0.6	0.800	0.6000	0.480	Standard Error > QC
34	9:55 AM	19.000	0.6	0.730	0.6000	0.438	Standard Error > QC
38	10:00 AM	21.000	0.6	0.790	0.6000	0.474	Standard Error > QC
39	10:02 AM	21.500	0.6	0.750	0.6000	0.450	Standard Error > QC
41	10:04 AM	22.500	0.6	0.780	0.6000	0.468	Standard Error > QC
45	10:10 AM	24.500	0.6	0.730	0.6000	0.438	Standard Error > QC
46	10:12 AM	25.000	0.6	0.780	0.6000	0.468	Standard Error > QC
47	10:13 AM	25.500	0.6	0.760	0.6000	0.456	Standard Error > QC
49	10:16 AM	26.500	0.6	0.700	0.6000	0.420	Standard Error > QC
50	10:18 AM	27.000	0.6	0.750	0.6000	0.450	Standard Error > QC
51	10:20 AM	27.500	0.6	0.780	0.6000	0.468	Standard Error > QC
53	10:24 AM	28.500	0.6	0.780	0.6000	0.468	Standard Error > QC
55	10:27 AM	29.500	0.6	0.700	0.6000	0.420	Standard Error > QC
56	10:29 AM	30.000	0.6	0.780	0.6000	0.468	Standard Error > QC
58	10:33 AM	31.000	0.6	0.760	0.6000	0.456	Standard Error > QC
59	10:34 AM	31.500	0.6	0.800	0.6000	0.480	Standard Error > QC
60	10:35 AM	32.000	0.6	0.790	0.6000	0.474	Standard Error > QC
62	10:38 AM	33.000	0.6	0.880	0.6000	0.528	Standard Error > QC
73	10:53 AM	38.500	0.6	1.030	0.6000	0.618	Velocity Angle > QC
75	10:57 AM	39.500	0.6	0.980	0.6000	0.588	Standard Error > QC
85	11:10 AM	44.500	None	0.000	0.0000	0.000	Water Depth > QC



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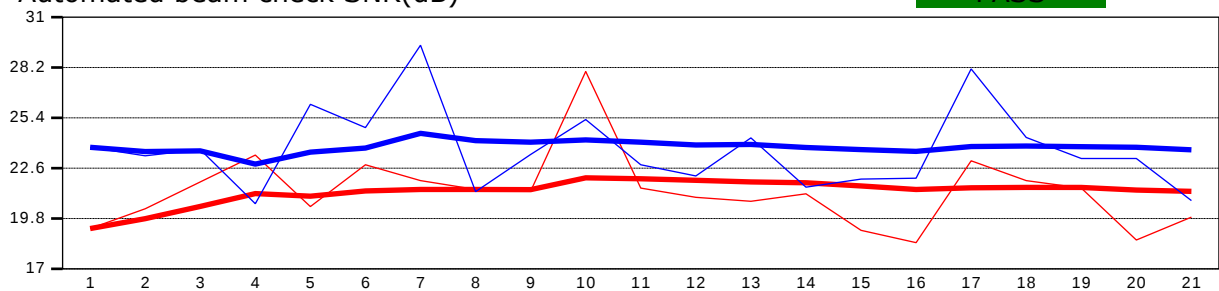
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Beam 1	
Beam 2	

Automated beam check Start time 8/16/2024 9:07:47 AM

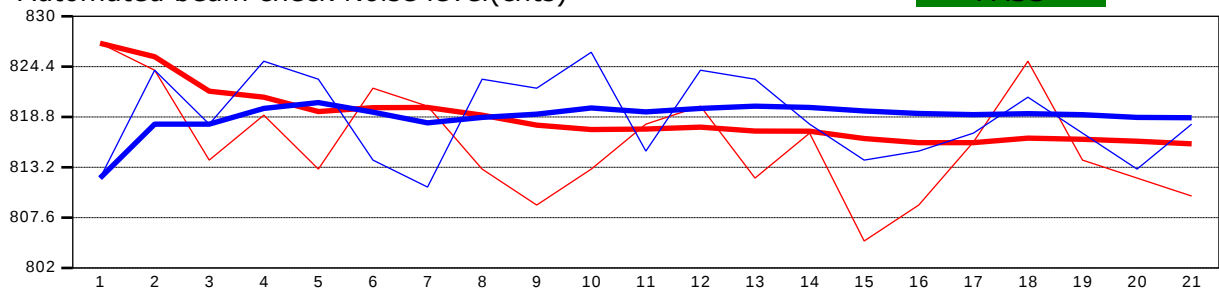
Automated beam check SNR(dB)

PASS



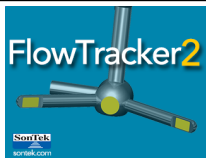
Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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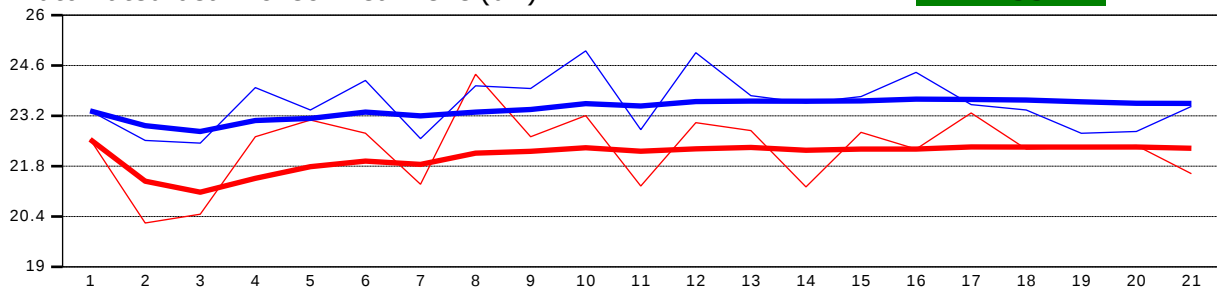
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Beam 1	
Beam 2	

Automated beam check Start time 8/16/2024 9:07:47 AM

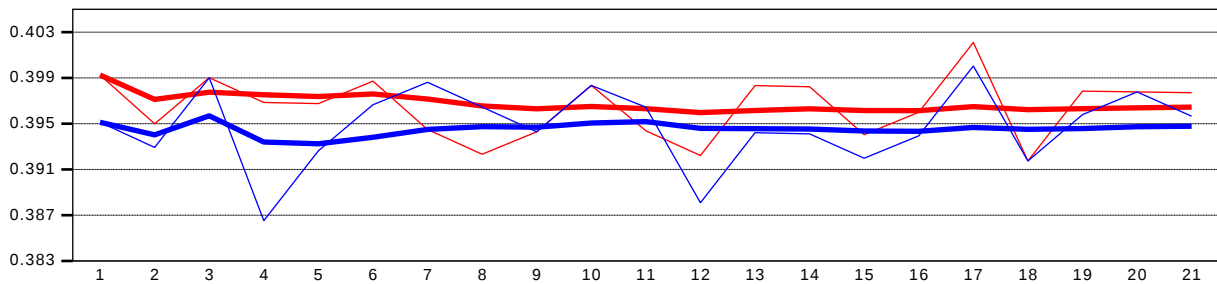
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(ft)

PASS



Automated beam check Quality control warnings

No quality control warnings