

Discharge Measurement Summary

Site name 07302024.PS
Site number
Operator(s) Sweber
File name 07302024_PS_20240730-171347.ft
Comment

Start time	7/30/2024 2:25 PM	Sensor type	Top Setting
End time	7/30/2024 5:11 PM	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 (ft ³ /s)
87	40	36.9021

Total width (ft)	Total area (ft ²)	Wetted Perimeter (ft)
43.000	32.2300	43.927

Mean SNR (dB)	Mean depth (ft)	Mean velocity (ft/s)
32	0.750	1.1450

Mean temp (°F)	Max depth (ft)	Max velocity (ft/s)
70.744	1.050	1.7056

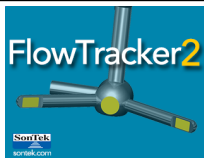
Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.2%	1.5%
Velocity	0.3%	1.8%
Width	0.1%	0.1%
Method	0.8%	
# Stations	0.6%	
Overall	1.5%	2.5%

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

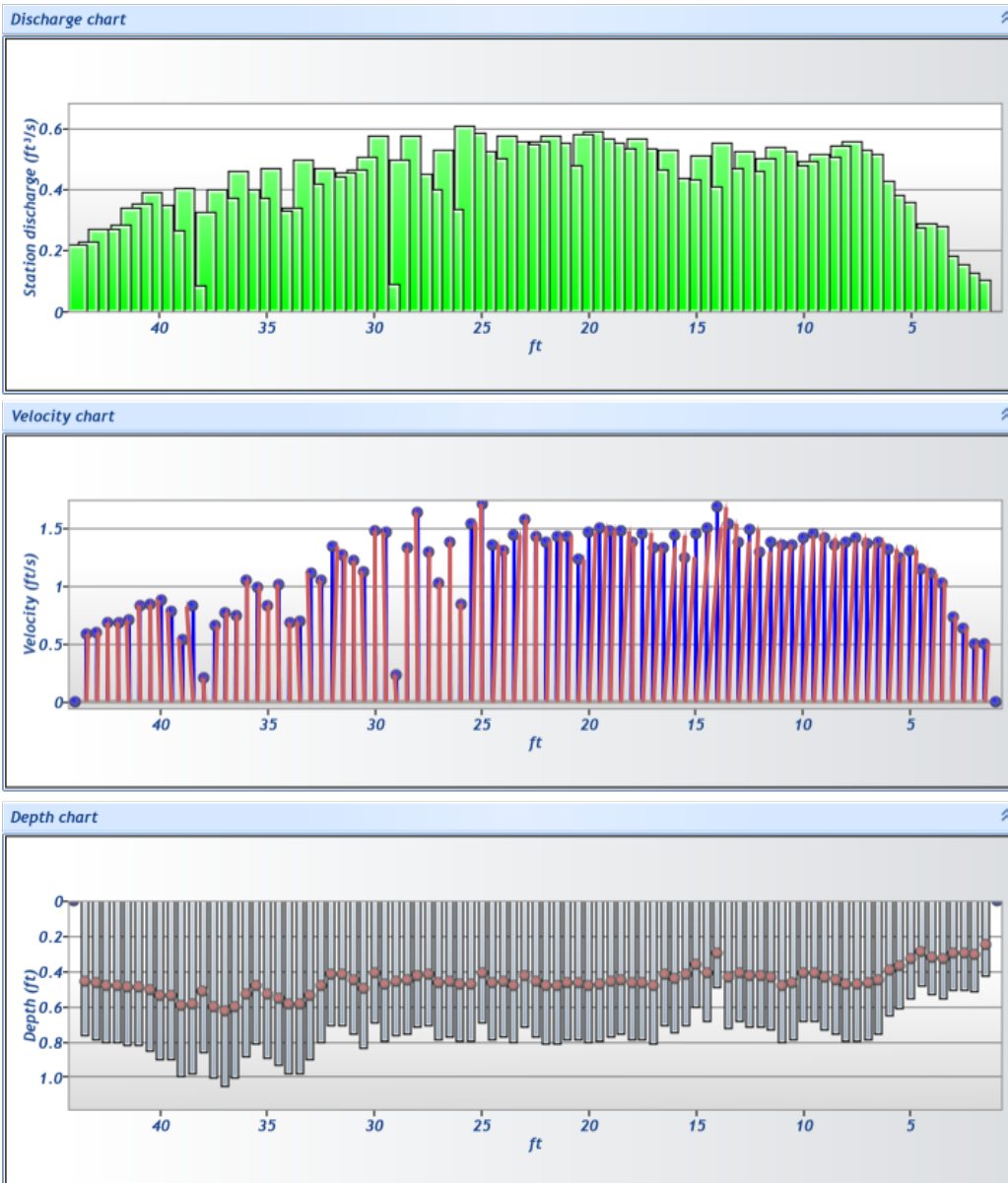


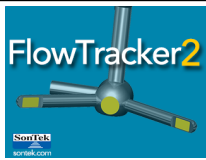
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Station Warning Settings

Station discharge OK	Station discharge < 5.00%
Station discharge caution	5.00% >= Station discharge < 10.00%
Station discharge warning	Station discharge >= 10.00%

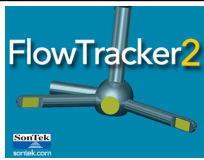




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Measurement results													
St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Correct on	Mean Velocity (ft/s)	Area (ft²)	Flow (ft³/s)	%Q
0	2:25 PM	1.000	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.5084	0.0000	0.0000	0.00 ✓
1	2:26 PM	1.500	0.6	0.420	0.6000	0.252	80	0.5084	1.0000	0.5084	0.2100	0.1068	0.29 ✓
2	2:28 PM	2.000	0.6	0.510	0.6000	0.306	80	0.4988	1.0000	0.4988	0.2550	0.1272	0.34 ✓
3	2:30 PM	2.500	0.6	0.500	0.6000	0.300	80	0.6363	1.0000	0.6363	0.2500	0.1591	0.43 ✓
4	2:32 PM	3.000	0.6	0.500	0.6000	0.300	80	0.7356	1.0000	0.7356	0.2500	0.1839	0.50 ✓
5	2:34 PM	3.500	0.6	0.550	0.6000	0.330	80	1.0287	1.0000	1.0287	0.2750	0.2829	0.77 ✓
6	2:35 PM	4.000	0.6	0.530	0.6000	0.318	80	1.1081	1.0000	1.1081	0.2650	0.2936	0.80 ✓
7	2:36 PM	4.500	0.6	0.480	0.6000	0.288	80	1.1536	1.0000	1.1536	0.2400	0.2769	0.75 ✓
8	2:37 PM	5.000	0.6	0.550	0.6000	0.330	80	1.1313	1.0000	1.1313	0.2750	0.3606	0.98 ✓
9	2:39 PM	5.500	0.6	0.610	0.6000	0.366	80	1.2515	1.0000	1.2515	0.3050	0.3817	1.03 ✓
10	2:40 PM	6.000	0.6	0.650	0.6000	0.390	80	1.3200	1.0000	1.3200	0.3250	0.4290	1.16 ✓
11	2:41 PM	6.500	0.6	0.750	0.6000	0.450	80	1.3812	1.0000	1.3812	0.3750	0.5180	1.40 ✓
12	3:03 PM	7.000	0.6	0.780	0.6000	0.468	80	1.3634	1.0000	1.3634	0.3900	0.5317	1.44 ✓
13	3:05 PM	7.500	0.6	0.790	0.6000	0.474	80	1.4198	1.0000	1.4198	0.3950	0.5608	1.52 ✓
14	3:06 PM	8.000	0.6	0.790	0.6000	0.474	80	1.3791	1.0000	1.3791	0.3950	0.5447	1.48 ✓
15	3:08 PM	8.500	0.6	0.750	0.6000	0.450	80	1.3546	1.0000	1.3546	0.3750	0.5080	1.38 ✓
16	3:09 PM	9.000	0.6	0.730	0.6000	0.438	80	1.4154	1.0000	1.4154	0.3650	0.5166	1.40 ✓
17	3:10 PM	9.500	0.6	0.680	0.6000	0.408	80	1.4502	1.0000	1.4502	0.3400	0.4931	1.34 ✓
18	3:11 PM	10.000	0.6	0.680	0.6000	0.408	80	1.4218	1.0000	1.4218	0.3400	0.4834	1.31 ✓
19	3:12 PM	10.500	0.6	0.780	0.6000	0.468	80	1.3558	1.0000	1.3558	0.3900	0.5288	1.43 ✓
20	3:14 PM	11.000	0.6	0.800	0.6000	0.480	80	1.3552	1.0000	1.3552	0.4000	0.5421	1.47 ✓
21	3:15 PM	11.500	0.6	0.730	0.6000	0.438	80	1.3767	1.0000	1.3767	0.3650	0.5025	1.36 ✓
22	3:16 PM	12.000	0.6	0.710	0.6000	0.426	80	1.2970	1.0000	1.2970	0.3550	0.4604	1.25 ✓
23	3:18 PM	12.500	0.6	0.710	0.6000	0.426	80	1.4864	1.0000	1.4864	0.3550	0.5277	1.43 ✓
24	3:20 PM	13.000	0.6	0.680	0.6000	0.408	80	1.3831	1.0000	1.3831	0.3400	0.4703	1.27 ✓
25	3:21 PM	13.500	0.6	0.720	0.6000	0.432	80	1.5380	1.0000	1.5380	0.3600	0.5537	1.50 ✓
26	3:23 PM	14.000	0.6	0.490	0.6000	0.294	80	1.6806	1.0000	1.6806	0.2450	0.4118	1.12 ✓
27	3:25 PM	14.500	0.6	0.680	0.6000	0.408	80	1.5068	1.0000	1.5068	0.3400	0.5123	1.39 ✓
28	3:26 PM	15.000	0.6	0.600	0.6000	0.360	80	1.4547	1.0000	1.4547	0.3000	0.4364	1.18 ✓
29	3:27 PM	15.500	0.6	0.700	0.6000	0.420	80	1.2505	1.0000	1.2505	0.3500	0.4377	1.19 ✓
30	3:30 PM	16.000	0.6	0.740	0.6000	0.444	80	1.4374	1.0000	1.4374	0.3700	0.5319	1.44 ✓
31	3:33 PM	16.500	0.6	0.700	0.6000	0.420	80	1.3312	1.0000	1.3312	0.3500	0.4659	1.26 ✓
32	3:35 PM	17.000	0.6	0.810	0.6000	0.486	80	1.3295	1.0000	1.3295	0.4050	0.5385	1.46 ✓
33	3:38 PM	17.500	0.6	0.780	0.6000	0.468	80	1.4583	1.0000	1.4583	0.3900	0.5688	1.54 ✓
34	3:39 PM	18.000	0.6	0.780	0.6000	0.468	80	1.3741	1.0000	1.3741	0.3900	0.5359	1.45 ✓
35	3:43 PM	18.500	0.6	0.750	0.6000	0.450	80	1.4751	1.0000	1.4751	0.3750	0.5532	1.50 ✓
36	3:45 PM	19.000	0.6	0.770	0.6000	0.462	80	1.4832	1.0000	1.4832	0.3850	0.5710	1.55 ✓
37	3:47 PM	19.500	0.6	0.790	0.6000	0.474	80	1.5015	1.0000	1.5015	0.3950	0.5931	1.61 ✓
38	3:48 PM	20.000	0.6	0.800	0.6000	0.480	80	1.4597	1.0000	1.4597	0.4000	0.5839	1.58 ✓
39	3:50 PM	20.500	0.6	0.780	0.6000	0.468	80	1.2287	1.0000	1.2287	0.3900	0.4792	1.30 ✓
40	3:52 PM	21.000	0.6	0.780	0.6000	0.468	80	1.4266	1.0000	1.4266	0.3900	0.5564	1.51 ✓
41	3:55 PM	21.500	0.6	0.810	0.6000	0.486	80	1.4274	1.0000	1.4274	0.4050	0.5781	1.57 ✓
42	3:56 PM	22.000	0.6	0.810	0.6000	0.486	80	1.3809	1.0000	1.3809	0.4050	0.5593	1.52 ✓
43	3:59 PM	22.500	0.6	0.770	0.6000	0.462	80	1.4349	1.0000	1.4349	0.3850	0.5524	1.50 ✓
44	4:01 PM	23.000	0.6	0.710	0.6000	0.426	80	1.5743	1.0000	1.5743	0.3550	0.5589	1.51 ✓
45	4:04 PM	23.500	0.6	0.800	0.6000	0.480	80	1.4423	1.0000	1.4423	0.4000	0.5769	1.56 ✓
46	4:06 PM	24.000	0.6	0.770	0.6000	0.462	80	1.3044	1.0000	1.3044	0.3850	0.5022	1.36 ✓
47	4:08 PM	24.500	0.6	0.780	0.6000	0.468	80	1.3574	1.0000	1.3574	0.3900	0.5294	1.43 ✓
48	4:10 PM	25.000	0.6	0.690	0.6000	0.414	80	1.7056	1.0000	1.7056	0.3450	0.5884	1.59 ✓
49	4:11 PM	25.500	0.6	0.790	0.6000	0.474	80	1.5417	1.0000	1.5417	0.3950	0.6090	1.65 ✓
50	4:13 PM	26.000	0.6	0.790	0.6000	0.474	80	0.8494	1.0000	0.8494	0.3950	0.3355	0.91 ✓
51	4:14 PM	26.500	0.6	0.770	0.6000	0.462	80	1.3799	1.0000	1.3799	0.3850	0.5312	1.44 ✓
52	4:15 PM	27.000	0.6	0.780	0.6000	0.468	80	1.0267	1.0000	1.0267	0.3900	0.4004	1.09 ✓
53	4:17 PM	27.500	0.6	0.700	0.6000	0.420	80	1.2919	1.0000	1.2919	0.3500	0.4522	1.23 ✓
54	4:19 PM	28.000	0.6	0.710	0.6000	0.426	80	1.6338	1.0000	1.6338	0.3550	0.5800	1.57 ✓
55	4:20 PM	28.500	0.6	0.750	0.6000	0.450	80	1.3302	1.0000	1.3302	0.3750	0.4988	1.35 ✓
56	4:24 PM	29.000	0.6	0.760	0.6000	0.456	80	0.2380	1.0000	0.2380	0.3800	0.0904	0.25 ✓
57	4:26 PM	29.500	0.6	0.790	0.6000	0.474	80	1.4655	1.0000	1.4655	0.3950	0.5789	1.57 ✓
58	4:27 PM	30.000	0.6	0.690	0.6000	0.414	80	1.4784	1.0000	1.4784	0.3450	0.5100	1.38 ✓
59	4:28 PM	30.500	0.6	0.830	0.6000	0.498	80	1.1293	1.0000	1.1293	0.4150	0.4687	1.27 ✓
60	4:30 PM	31.000	0.6	0.750	0.6000	0.450	80	1.2165	1.0000	1.2165	0.3750	0.4562	1.24 ✓
61	4:33 PM	31.500	0.6	0.700	0.6000	0.420	80	1.2676	1.0000	1.2676	0.3500	0.4436	1.20 ✓
62	4:34 PM	32.000	0.6	0.700	0.6000	0.420	80	1.3417	1.0000	1.3417	0.3500	0.4696	1.27 ✓
63	4:35 PM	32.500	0.6	0.800	0.6000	0.480	80	1.0488	1.0000	1.0488	0.4000	0.4195	1.14 ✓
64	4:38 PM	33.000	0.6	0.900	0.6000	0.540	80	1.1141	1.0000	1.1141	0.4500	0.5013	1.36 ✓
65	4:42 PM	33.500	0.6	0.980	0.6000	0.588	80	0.6964	1.0000	0.6964	0.4900	0.3412	0.92 ✓
66	4:43 PM	34.000	0.6	0.980	0.6000	0.588	80	0.6827	1.0000	0.6827	0.4900	0.3345	0.91 ✓
67	4:44 PM	34.500	0.6	0.930	0.6000	0.558	80	1.0136	1.0000	1.0136	0.4650	0.4713	1.28 ✓
68	4:46 PM	35.000	0.6	0.890	0.6000	0.534	80	0.8374	1.0000	0.8374	0.4450	0.3727	1.01 ✓
69	4:47 PM	35.500	0.6	0.810	0.6000	0.486	80	0.9930	1.0000	0.9930	0.4050	0.4022	1.09 ✓
70	4:48 PM	36.000	0.6	0.880	0.6000	0.528	80	1.0534	1.0000	1.0534	0.4400	0.4635	1.26 ✓
71	4:49 PM	36.500	0.6	1.000	0.6000	0.600	80	0.7462	1.0000	0.7462	0.5000	0.3731	1.01 ✓
72	4:51 PM	37.000	0.6	1.050	0.6000	0.630	80	0.7700	1.0000	0.7700	0.5250	0.4043	1.10 ✓
73	4:52 PM	37.500	0.6	1.000	0.6000	0.600	80	0.6570	1.0000	0.6570	0.5000	0.3285	0.89 ✓
74	4:55 PM	38.000	0.6	0.860	0.6000	0.516	80	0.2082	1.0000	0.2082	0.4300	0.0895	0.24 ✓
75	4:57 PM	38.500	0.6	0.980	0.6000	0.588	80	0.8289	1.0000	0.8289	0.4900	0.4062	1.10 ✓
76	4:58 PM	39.000	0.6	0.990	0.6000	0.594	80	0.5445	1.0000	0.5445	0.4950	0.2695	0.73 ✓
77	4:59 PM	39.500	0.6	0.900	0.6000	0.540	80	0.7801	1.0000	0.7801	0.4500	0.3510	0.95 ✓
78	5:00 PM	40.000	0.6	0.900	0.6000	0.540	80	0.8788	1.0000	0.8788	0.4500	0.3955	1.07 ✓
79	5:02 PM	40.500	0.6	0.850	0.6000	0.510	80	0.8078	1.0000	0.8078	0.4250	0.3612	0.93 ✓
80	5:03 PM	41.000											



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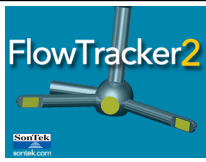
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Quality Control Settings

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
25	3:21 PM	13.500	0.6	0.720	0.6000	0.432	High % Spikes
27	3:25 PM	14.500	0.6	0.680	0.6000	0.408	Velocity Angle > QC
28	3:26 PM	15.000	0.6	0.600	0.6000	0.360	Velocity Angle > QC
29	3:27 PM	15.500	0.6	0.700	0.6000	0.420	Standard Error > QC
31	3:33 PM	16.500	0.6	0.700	0.6000	0.420	Velocity Angle > QC
32	3:35 PM	17.000	0.6	0.810	0.6000	0.486	Standard Error > QC
34	3:39 PM	18.000	0.6	0.780	0.6000	0.468	Standard Error > QC
35	3:43 PM	18.500	0.6	0.750	0.6000	0.450	Standard Error > QC
36	3:45 PM	19.000	0.6	0.770	0.6000	0.462	Standard Error > QC
39	3:50 PM	20.500	0.6	0.780	0.6000	0.468	Standard Error > QC
40	3:52 PM	21.000	0.6	0.780	0.6000	0.468	Standard Error > QC
41	3:55 PM	21.500	0.6	0.810	0.6000	0.486	Standard Error > QC
43	3:59 PM	22.500	0.6	0.770	0.6000	0.462	Standard Error > QC
44	4:01 PM	23.000	0.6	0.710	0.6000	0.426	Standard Error > QC
45	4:04 PM	23.500	0.6	0.800	0.6000	0.480	Standard Error > QC
46	4:06 PM	24.000	0.6	0.770	0.6000	0.462	Standard Error > QC
47	4:08 PM	24.500	0.6	0.780	0.6000	0.468	Standard Error > QC
48	4:10 PM	25.000	0.6	0.690	0.6000	0.414	Standard Error > QC
55	4:20 PM	28.500	0.6	0.750	0.6000	0.450	Standard Error > QC
59	4:28 PM	30.500	0.6	0.830	0.6000	0.498	Standard Error > QC
86	5:11 PM	44.000	None	0.000	0.0000	0.000	Water Depth > QC



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Beam 1	
Beam 2	

Automated beam check Start time 7/30/2024 2:25:26 PM

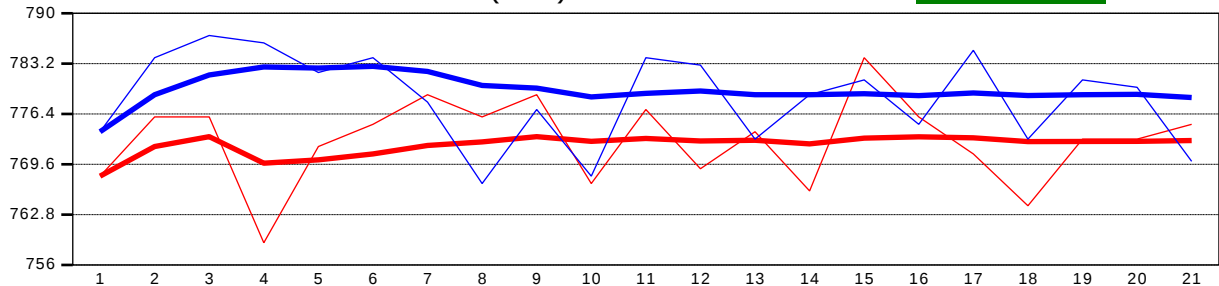
Automated beam check SNR(dB)

PASS



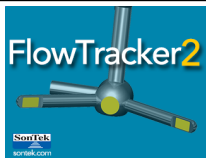
Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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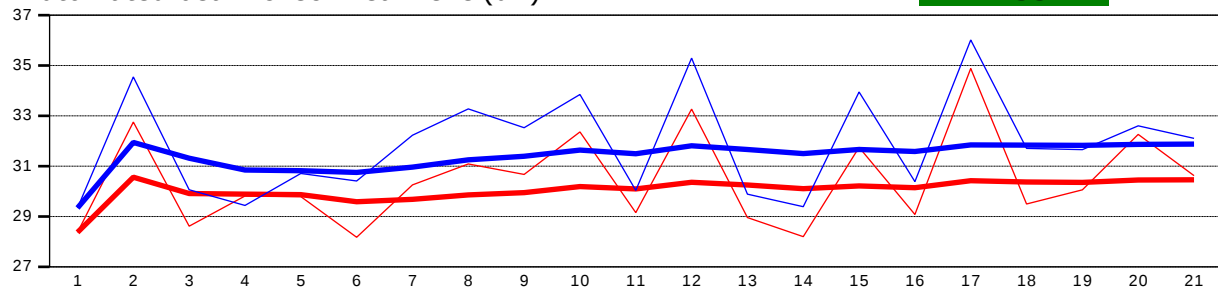
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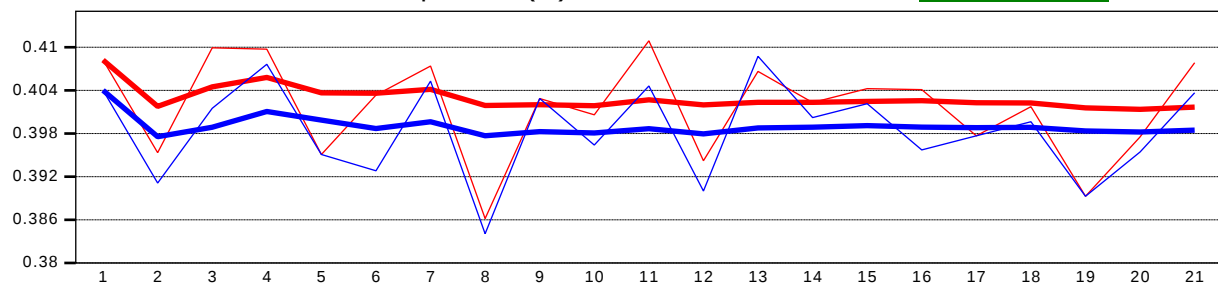
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(ft)

PASS



Automated beam check Quality control warnings

No quality control warnings