

Discharge Measurement Summary

Site name 07192024.Diamond
Site number
Operator(s) Sweber
File name 07192024_Diamond_20240719-153239.ft
Comment

Start time	7/19/2024 12:41 PM	Sensor type	Top Setting
End time	7/19/2024 3:30 PM	Handheld serial number	FT2H2219029
Start location latitude	43.045	Probe serial number	FT2P2219014
Start location longitude	-118.839	Probe firmware	1.30
Calculations engine	FlowTracker2	Handheld software	1.7

# Stations	Avg interval (s)	Total discharge (ft ³ /s)
48	40	59.4404

Total width (ft)	Total area (ft ²)	Wetted Perimeter (ft)
23.500	53.1450	27.170

Mean SNR (dB)	Mean depth (ft)	Mean velocity (ft/s)
46	2.261	1.1185

Mean temp (°F)	Max depth (ft)	Max velocity (ft/s)
77.903	2.650	1.6448

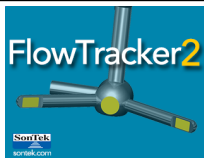
Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.1%	0.7%
Velocity	0.2%	0.6%
Width	0.1%	0.1%
Method	0.5%	
# Stations	1.1%	
Overall	1.6%	1.4%

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

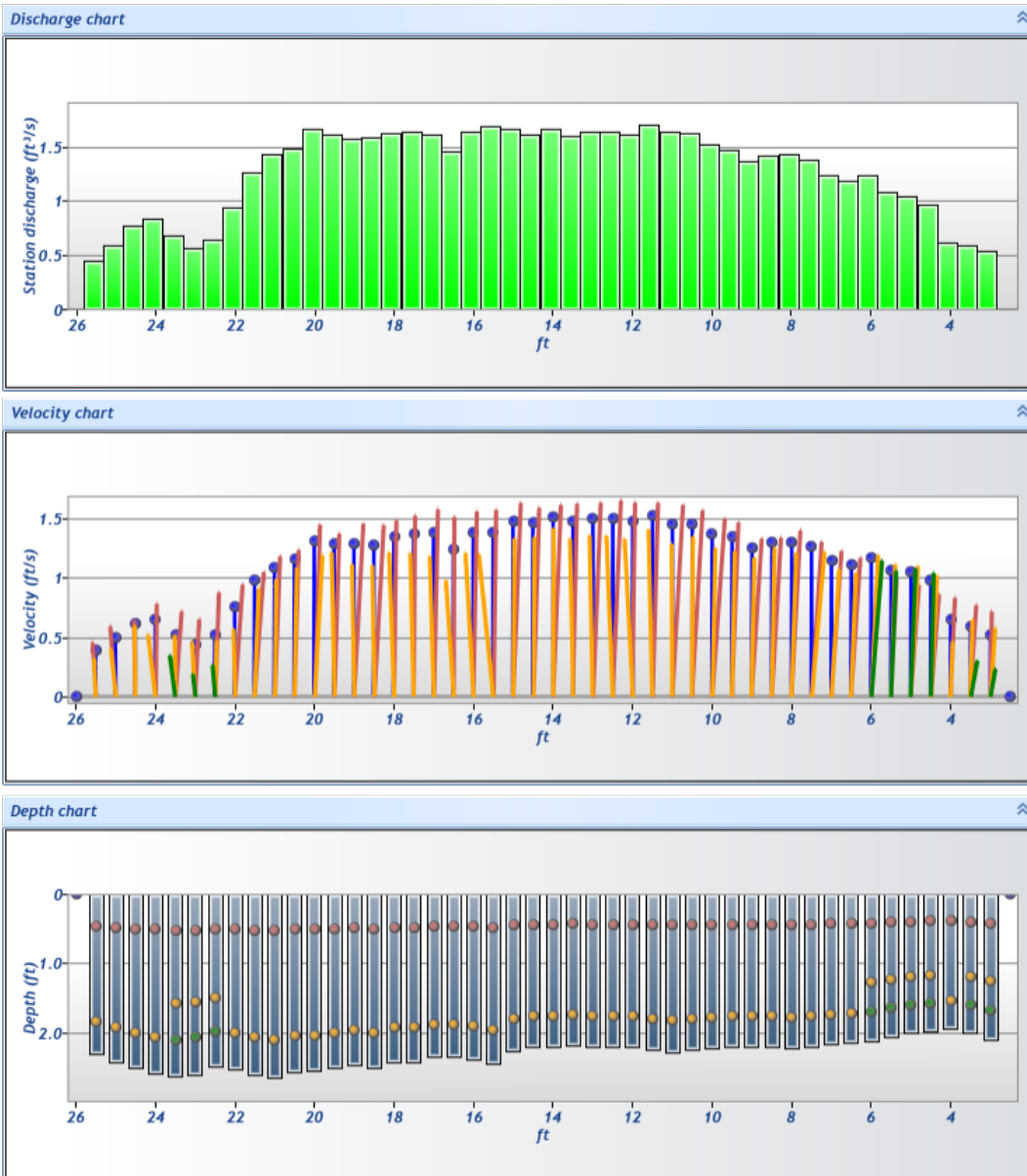
Station discharge < 5.00%

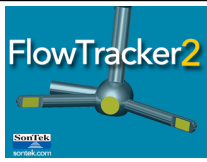
Station discharge caution

5.00% >= Station discharge < 10.00%

Station discharge warning

Station discharge >= 10.00%

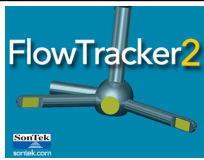




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Measurement results													
Sta	Time	Location	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Corrected (ft/s)	Mean Velocity (ft/s)	Area (ft²)	Flow (ft³/s)	%Q
0	12:41 PM	2,500	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.5231	0.0000	0.0000	0.00 ✓
1	12:42 PM	3,000	0.2/0.6/0.82	1.100	0.2000	0.420	80	0.7116	1.0000	0.5231	1.0500	0.5492	0.92 ✓
1	12:42 PM	3,000	0.2/0.6/0.82	1.100	0.6000	1.260	80	0.5733	1.0000	0.5231	1.0500	0.5492	0.92 ✓
1	12:42 PM	3,000	0.2/0.6/0.82	1.100	0.8000	1.680	80	0.2343	1.0000	0.5231	1.0500	0.5492	0.92 ✓
2	12:49 PM	3,500	0.2/0.6/0.82	1.200	0.2000	0.400	80	0.7692	1.0000	0.5902	1.0000	0.5902	0.99 ✓
2	12:49 PM	3,500	0.2/0.6/0.82	1.200	0.6000	1.200	80	0.6444	1.0000	0.5902	1.0000	0.5902	0.99 ✓
2	12:49 PM	3,500	0.2/0.6/0.82	1.200	0.8000	1.600	80	0.3028	1.0000	0.5902	1.0000	0.5902	0.99 ✓
3	12:53 PM	4,000	0.2/0.8	1.930	0.2000	0.386	80	0.8303	1.0000	0.6476	0.9650	0.6249	1.05 ✓
3	12:53 PM	4,000	0.2/0.8	1.930	0.8000	1.544	80	0.4649	1.0000	0.6476	0.9650	0.6249	1.05 ✓
4	12:56 PM	4,500	0.2/0.6/0.82	1.970	0.2000	0.394	80	0.8593	1.0000	0.9826	0.9850	0.9679	1.63 ✓
4	12:56 PM	4,500	0.2/0.6/0.82	1.970	0.6000	1.182	80	1.0166	1.0000	0.9826	0.9850	0.9679	1.63 ✓
4	12:56 PM	4,500	0.2/0.6/0.82	1.970	0.8000	1.576	80	1.0379	1.0000	0.9826	0.9850	0.9679	1.63 ✓
5	1:00 PM	5,000	0.2/0.6/0.82	2.000	0.2000	0.400	80	0.9364	1.0000	1.0488	1.0000	1.0488	1.76 ✓
5	1:00 PM	5,000	0.2/0.6/0.82	2.000	0.6000	1.200	80	1.0938	1.0000	1.0488	1.0000	1.0488	1.76 ✓
5	1:00 PM	5,000	0.2/0.6/0.82	2.000	0.8000	1.600	80	1.0713	1.0000	1.0488	1.0000	1.0488	1.76 ✓
6	1:22 PM	5,500	0.2/0.6/0.82	2.050	0.2000	0.410	80	0.9874	1.0000	1.0650	1.0250	1.0916	1.84 ✓
6	1:22 PM	5,500	0.2/0.6/0.82	2.050	0.6000	1.230	80	1.1089	1.0000	1.0650	1.0250	1.0916	1.84 ✓
6	1:22 PM	5,500	0.2/0.6/0.82	2.050	0.8000	1.640	80	1.0547	1.0000	1.0650	1.0250	1.0916	1.84 ✓
7	1:26 PM	6,000	0.2/0.6/0.82	1.130	0.2000	0.426	80	1.1395	1.0000	1.1628	1.0650	1.2384	2.08 ✓
7	1:26 PM	6,000	0.2/0.6/0.82	1.130	0.6000	1.278	80	1.1855	1.0000	1.1628	1.0650	1.2384	2.08 ✓
7	1:26 PM	6,000	0.2/0.6/0.82	1.130	0.8000	1.704	80	1.1410	1.0000	1.1628	1.0650	1.2384	2.08 ✓
8	1:30 PM	6,500	0.2/0.8	2.150	0.2000	0.430	80	1.1643	1.0000	1.1020	1.0750	1.1846	1.99 ✓
8	1:30 PM	6,500	0.2/0.8	2.150	0.8000	1.720	80	1.0397	1.0000	1.1020	1.0750	1.1846	1.99 ✓
9	1:33 PM	7,000	0.2/0.8	2.170	0.2000	0.434	80	1.2221	1.0000	1.1450	1.0850	1.2423	2.09 ✓
9	1:33 PM	7,000	0.2/0.8	2.170	0.8000	1.736	80	1.0679	1.0000	1.1450	1.0850	1.2423	2.09 ✓
10	1:36 PM	7,500	0.2/0.8	2.200	0.2000	0.440	80	1.2973	1.0000	1.2550	1.1000	1.3805	2.32 ✓
10	1:36 PM	7,500	0.2/0.8	2.200	0.8000	1.760	80	1.2127	1.0000	1.2550	1.1000	1.3805	2.32 ✓
11	1:40 PM	8,000	0.2/0.8	2.220	0.2000	0.444	80	1.3944	1.0000	1.3001	1.1100	1.4431	2.43 ✓
11	1:40 PM	8,000	0.2/0.8	2.220	0.6000	1.332	80	1.2058	1.0000	1.3001	1.1100	1.4431	2.43 ✓
12	1:45 PM	8,500	0.2/0.8	2.210	0.2000	0.442	80	1.3316	1.0000	1.2899	1.1050	1.4253	2.40 ✓
12	1:45 PM	8,500	0.2/0.8	2.210	0.8000	1.768	80	1.2482	1.0000	1.2899	1.1050	1.4253	2.40 ✓
13	1:47 PM	9,000	0.2/0.8	2.210	0.2000	0.442	80	1.3256	1.0000	1.2462	1.1050	1.3770	2.32 ✓
13	1:47 PM	9,000	0.2/0.8	2.210	0.6000	1.332	80	1.1468	1.0000	1.2462	1.1050	1.3770	2.32 ✓
14	1:50 PM	9,500	0.2/0.8	2.200	0.2000	0.440	80	1.4620	1.0000	1.3404	1.1000	1.4744	2.48 ✓
14	1:50 PM	9,500	0.2/0.8	2.200	0.8000	1.760	80	1.2187	1.0000	1.3404	1.1000	1.4744	2.48 ✓
15	1:53 PM	10,000	0.2/0.8	2.230	0.2000	0.446	80	1.4902	1.0000	1.3686	1.1150	1.5260	2.57 ✓
15	1:53 PM	10,000	0.2/0.8	2.230	0.8000	1.794	80	1.2470	1.0000	1.3686	1.1150	1.5260	2.57 ✓
16	1:55 PM	10,500	0.2/0.8	2.250	0.2000	0.450	80	1.5629	1.0000	1.4533	1.1250	1.6350	2.75 ✓
16	1:55 PM	10,500	0.2/0.8	2.250	0.8000	1.800	80	1.3438	1.0000	1.4533	1.1250	1.6350	2.75 ✓
17	1:58 PM	11,000	0.2/0.8	2.280	0.2000	0.456	80	1.6069	1.0000	1.4433	1.1400	1.6454	2.77 ✓
17	1:58 PM	11,000	0.2/0.8	2.280	0.8000	1.824	80	1.2798	1.0000	1.4433	1.1400	1.6454	2.77 ✓
18	2:01 PM	11,500	0.2/0.8	2.250	0.2000	0.450	80	1.6262	1.0000	1.5144	1.1250	1.7036	2.87 ✓
18	2:01 PM	11,500	0.2/0.8	2.250	0.6000	1.350	80	1.4025	1.0000	1.5144	1.1250	1.7036	2.87 ✓
19	2:03 PM	12,000	0.2/0.8	2.200	0.2000	0.440	80	1.6275	1.0000	1.4750	1.1000	1.6225	2.73 ✓
19	2:03 PM	12,000	0.2/0.8	2.200	0.8000	1.760	80	1.3226	1.0000	1.4750	1.1000	1.6225	2.73 ✓
20	2:06 PM	12,500	0.2/0.8	2.200	0.2000	0.440	80	1.6448	1.0000	1.4965	1.1000	1.6461	2.77 ✓
20	2:06 PM	12,500	0.2/0.8	2.200	0.6000	1.320	80	1.4485	1.0000	1.4965	1.1000	1.6461	2.77 ✓
21	2:08 PM	13,000	0.2/0.8	2.200	0.2000	0.440	80	1.6273	1.0000	1.4899	1.1000	1.6389	2.76 ✓
21	2:08 PM	13,000	0.2/0.8	2.200	0.8000	1.760	80	1.3526	1.0000	1.4899	1.1000	1.6389	2.76 ✓
22	2:11 PM	13,500	0.2/0.8	2.180	0.2000	0.436	80	1.6174	1.0000	1.4707	1.0900	1.6030	2.70 ✓
22	2:11 PM	13,500	0.2/0.8	2.180	0.8000	1.744	80	1.3239	1.0000	1.4707	1.0900	1.6030	2.70 ✓
23	2:13 PM	14,000	0.2/0.8	2.210	0.2000	0.442	80	1.6966	1.0000	1.5088	1.1050	1.6673	2.80 ✓
23	2:13 PM	14,000	0.2/0.8	2.210	0.8000	1.768	80	1.4110	1.0000	1.5088	1.1050	1.6673	2.80 ✓
24	2:16 PM	14,500	0.2/0.8	2.210	0.2000	0.442	80	1.5845	1.0000	1.4607	1.1050	1.6141	2.72 ✓
24	2:16 PM	14,500	0.2/0.8	2.210	0.8000	1.768	80	1.3369	1.0000	1.4607	1.1050	1.6141	2.72 ✓
25	2:18 PM	15,000	0.2/0.8	2.270	0.2000	0.454	80	1.6242	1.0000	1.4754	1.1350	1.6746	2.82 ✓
25	2:18 PM	15,000	0.2/0.8	2.270	0.8000	1.816	80	1.3266	1.0000	1.4754	1.1350	1.6746	2.82 ✓
26	2:21 PM	15,500	0.2/0.8	2.450	0.2000	0.490	80	1.5652	1.0000	1.3790	1.2250	1.6893	2.84 ✓
26	2:21 PM	15,500	0.2/0.8	2.450	0.8000	1.960	80	1.1928	1.0000	1.3790	1.2250	1.6893	2.84 ✓
27	2:28 PM	16,000	0.2/0.8	2.380	0.2000	0.476	80	1.5522	1.0000	1.3774	1.1900	1.6391	2.76 ✓
27	2:28 PM	16,000	0.2/0.8	2.380	0.8000	1.904	80	1.2026	1.0000	1.3774	1.1900	1.6391	2.76 ✓
28	2:31 PM	16,500	0.2/0.8	2.350	0.2000	0.470	80	1.5066	1.0000	1.2407	1.1750	1.4578	2.45 ✓
28	2:31 PM	16,500	0.2/0.8	2.350	0.8000	1.880	80	0.9748	1.0000	1.2407	1.1750	1.4578	2.45 ✓
29	2:34 PM	17,000	0.2/0.8	2.350	0.2000	0.470	80	1.5707	1.0000	1.3731	1.1750	1.6134	2.71 ✓
29	2:34 PM	17,000	0.2/0.8	2.350	0.8000	1.880	80	1.1755	1.0000	1.3731	1.1750	1.6134	2.71 ✓
30	2:36 PM	17,500	0.2/0.8	2.420	0.2000	0.484	80	1.5176	1.0000	1.3605	1.2100	1.6462	2.77 ✓
30	2:36 PM	17,500	0.2/0.8	2.420	0.8000	1.936	80	1.2034	1.0000	1.3605	1.2100	1.6462	2.77 ✓
31	2:39 PM	18,000	0.2/0.8	2.420	0.2000	0.484	80	1.4767	1.0000	1.3429	1.2100	1.6249	2.73 ✓
31	2:39 PM	18,000	0.2/0.8	2.420	0.8000	1.936	80	1.2091	1.0000	1.3429	1.2100	1.6249	2.73 ✓
32	2:41 PM	18,500	0.2/0.8	2.500	0.2000	0.500	80	1.4375	1.0000	1.2688	1.2500	1.5860	2.67 ✓
32	2:41 PM	18,500	0.2/0.8	2.500	0.8000	2.000	80	1.1002	1.0000	1.2688	1.2500	1.5860	2.67 ✓
33	2:44 PM	19,000	0.2/0.8	2.470	0.2000	0.494	80	1.4493	1.0000	1.2791	1.2350	1.5797	2.66 ✓
33	2:44 PM	19,000	0.2/0.8	2.470	0.8000	1.976	80	1.1089	1.0000	1.2791	1.2350	1.5797	2.66 ✓
34	2:46 PM	19,500	0.2/0.8	2.510	0.2000	0.502	80	1.3671	1.0000	1.2890	1.2550	1.6177	2.72 ✓
34	2:46 PM	19,500	0.2/0.8	2.510	0.6000	1.508	80	1.1971	1.0000	1.2890	1.2550	1.6177	2.72 ✓
35	2:49 PM	20,000	0.2/0.8	2.550	0.2000	0.510	80	1.4410	1.0000	1.3115	1.2750	1.6722	2.81 ✓
35	2:49 PM	20,000	0.2/0.8	2.550	0.8000	2.040	80	1.1821	1.0000	1.3115	1.2750	1.6722	2.81 ✓
36	2:52 PM	20,500	0.2/0.8	2.570	0.2000	0.514	80	1.2286	1.0000	1.1566	1.2850	1.4862	2.50 ✓
36	2:52 PM	20,500	0.2/0.8	2.570	0.600								

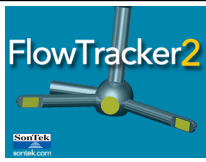


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Quality Control Settings	
Maximum depth change	50.00%
Maximum spacing change	100.00%
SNR threshold	10 dB
Standard error threshold	0.0328 ft/s
Spike threshold	10.00%
Maximum velocity angle	20.0 deg
Maximum tilt angle	5.0 deg

Quality control warnings							
St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Warnings
1	12:42 PM	3.000	0.2/0.6/0.8	2.100	0.2000	0.420	Water Depth > QC,Velocity Angle > QC
1	12:42 PM	3.000	0.2/0.6/0.8	2.100	0.6000	1.260	Water Depth > QC,Velocity Angle > QC
1	12:42 PM	3.000	0.2/0.6/0.8	2.100	0.8000	1.680	Water Depth > QC,Velocity Angle > QC
2	12:49 PM	3.500	0.2/0.6/0.8	2.000	0.2000	0.400	Velocity Angle > QC
2	12:49 PM	3.500	0.2/0.6/0.8	2.000	0.6000	1.200	Velocity Angle > QC
2	12:49 PM	3.500	0.2/0.6/0.8	2.000	0.8000	1.600	Velocity Angle > QC
42	3:12 PM	23.500	0.2/0.6/0.8	2.630	0.2000	0.526	Velocity Angle > QC
42	3:12 PM	23.500	0.2/0.6/0.8	2.630	0.6000	1.578	Velocity Angle > QC
42	3:12 PM	23.500	0.2/0.6/0.8	2.630	0.8000	2.104	Velocity Angle > QC
46	3:27 PM	25.500	0.2/0.8	2.310	0.2000	0.462	Water Depth > QC
46	3:27 PM	25.500	0.2/0.8	2.310	0.8000	1.848	Water Depth > QC
47	3:30 PM	26.000	None	0.000	0.0000	0.000	Water Depth > QC



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Beam 1	
Beam 2	

Automated beam check Start time 7/19/2024 12:41:12 PM

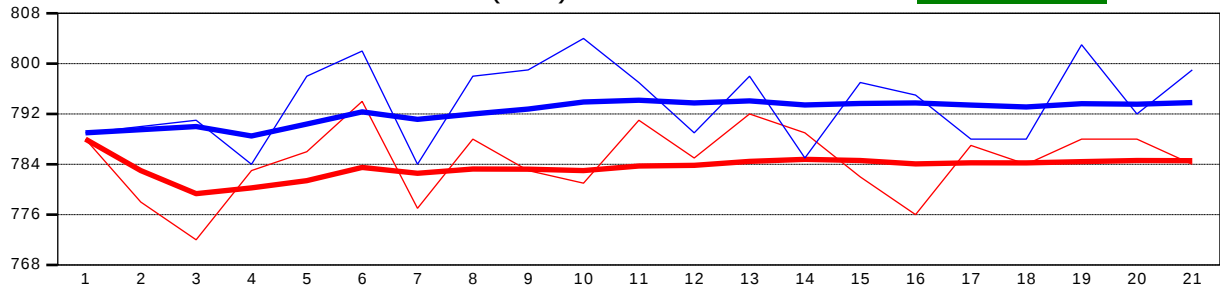
Automated beam check SNR(dB)

PASS



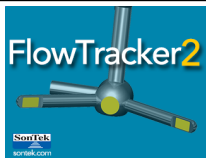
Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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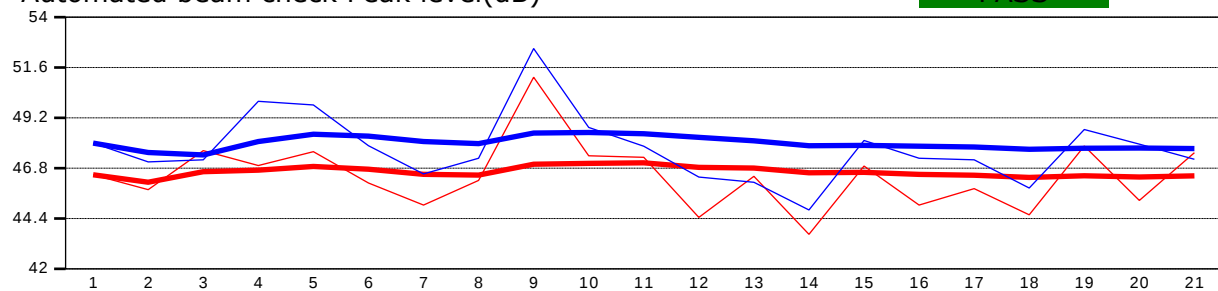
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Beam 1	
Beam 2	

Automated beam check Start time 7/19/2024 12:41:12 PM

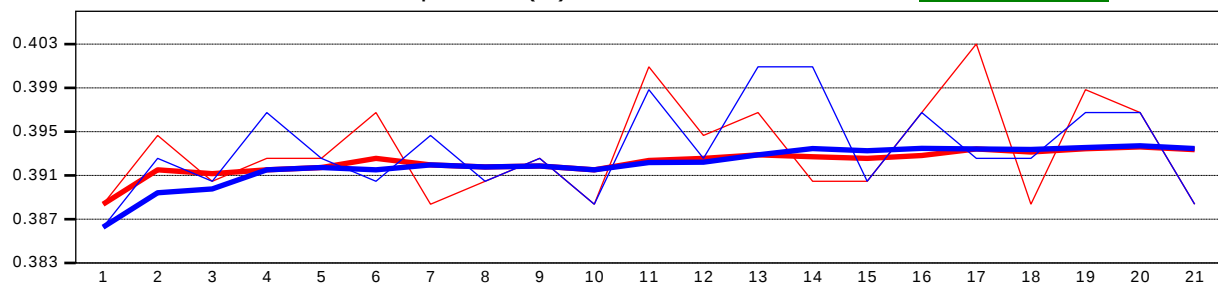
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(ft)

PASS



Automated beam check Quality control warnings

No quality control warnings