

Stability Checks - Instrument # 80-001070 Durnnellon PD 2/22/2016 *xx*

before calibration *BK*
ROAN

DUNNELLON PD
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-001070
 02/22/2016
 Software: 8100.27

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Test	g/210L	Time
Air Blank	0.000	13:23
Control Test	0.083	13:23
Air Blank	0.000	13:24
Control Test	0.083	13:24
Air Blank	0.000	13:25
Control Test	0.082	13:25
Air Blank	0.000	13:25
Control Test Stats	0.000	13:25
Average	0.0827	
Std Dev	0.0006	
Rel Std Dev(%)	0.6984	

Test	g/210L	Time
Air Blank	0.000	12:24
Control Test	0.203	12:25
Air Blank	0.000	12:25
Control Test	0.202	12:26
Air Blank	0.000	12:27
Control Test	0.202	12:27
Air Blank	0.000	12:28
Control Test Stats	0.000	12:28
Average	0.2023	
Std Dev	0.0006	
Rel Std Dev(%)	0.2853	

Test	g/210L	Time
Air Blank	0.000	12:20
Control Test	0.079	12:20
Air Blank	0.000	12:21
Control Test	0.079	12:21
Air Blank	0.000	12:22
Control Test	0.080	12:23
Air Blank	0.000	12:23
Control Test Stats	0.000	12:23
Average	0.0793	
Std Dev	0.0006	
Rel Std Dev(%)	0.7277	

Test	g/210L	Time
Air Blank	0.000	12:35
Control Test	0.051	12:36
Air Blank	0.000	12:36
Control Test	0.051	12:37
Air Blank	0.000	12:38
Control Test	0.050	12:38
Air Blank	0.000	12:39
Control Test Stats	0.000	12:39
Average	0.0507	
Std Dev	0.0006	
Rel Std Dev(%)	1.1395	

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Operator's Signature *xx*

Operator's Signature *xx*

Operator's Signature *xx*

Operator's Signature *xx*

Optical bench Calibration - Instrument # 80-001070 Durnellon PD 2/23/2016 89

DDM

DUANNELLON PD
Intoxilyzer - Alcohol Analyzer
Model 8000
02/29/2016
SN 60-801076
10:53:10

Auto Calibration
Max Power Res Value = 14
Auto Range Res Value = 9

CHANNEL 2 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 1.6110 (-0.0050)
Sample #2 = 1.6130 (0.0010)
Sample #3 = 1.5940 (0.0200)
Sample #4 = 1.6040 (0.0100)
Avg % Abs = 1.6037 (0.0103)
STD DEV = 0.0095 (0.0095)
REL STD DEV = 0.593 (91.978)

CHANNEL 1 >>>>
Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.120
Std Dev = 0.03 Rel Std Dev = 24.12
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.857
Std Dev = 0.01 Rel Std Dev = 1.46
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.929
Std Dev = 0.02 Rel Std Dev = 0.91
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.680
Std Dev = 0.01 Rel Std Dev = 0.29
Sol Val = 1.9048 mg/l or 0.400 g/210L
% Abs = 6.936
Std Dev = 0.01 Rel Std Dev = 0.16
Zero Order Coef = -299.63
First Order Coef = 2544.23
Second Order Coef = 35.38
Standard Deviation = 15.054739

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.000	-0.0001
0.040	0.040	-0.0000
0.100	0.100	0.0005
0.200	0.200	-0.0004
0.400	0.400	0.0001

Sol Value = 0.100 g/210L ***
Fit Value = 0.4762 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12839, Sum Io = 14185

CHANNEL 1 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 1.9350 (-0.0300)
Sample #2 = 1.9480 (-0.0320)
Sample #3 = 1.9240 (-0.0190)
Sample #4 = 1.9140 (-0.0190)
Avg % Abs = 1.9287 (-0.0233)
STD DEV = 0.0175 (0.0075)
REL STD DEV = 0.906 (32.167)

Sol Value = 0.400 g/210L ***
Fit Value = 1.9048 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12836, Sum Io = 14179

CHANNEL 1 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 6.9250 (-0.0310)
Sample #2 = 6.9270 (0.0000)
Sample #3 = 6.9400 (-0.0130)
Sample #4 = 6.9320 (-0.0140)
Avg % Abs = 6.9357 (-0.0090)
STD DEV = 0.0110 (0.0078)
REL STD DEV = 0.158 (86.781)

CHANNEL 2 >>>>
Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.161
Std Dev = 0.01 Rel Std Dev = 3.74
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.604
Std Dev = 0.01 Rel Std Dev = 0.59
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.756
Std Dev = 0.01 Rel Std Dev = 0.35
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 7.135
Std Dev = 0.01 Rel Std Dev = 0.09
Sol Val = 1.9048 mg/l or 0.400 g/210L
% Abs = 13.289
Std Dev = 0.01 Rel Std Dev = 0.04
Zero Order Coef = -184.80
First Order Coef = 1264.73
Second Order Coef = 13.71
Standard Deviation = 17.68988

Solution Stats Quadratic Fit Chan 2

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.000	-0.0004
0.040	0.039	0.0005
0.100	0.100	0.0001
0.200	0.200	-0.0003
0.400	0.400	0.0001

CHANNEL 2 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 3.7630 (-0.0110)
Sample #2 = 3.7670 (-0.0030)
Sample #3 = 3.7590 (0.0090)
Sample #4 = 3.7410 (0.0160)
Avg % Abs = 3.7557 (0.0073)
STD DEV = 0.0133 (0.0096)
REL STD DEV = 0.355 (131.032)

CHANNEL 2 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 13.2860 (-0.0060)
Sample #2 = 13.2840 (0.0140)
Sample #3 = 13.2900 (0.0110)
Sample #4 = 13.2940 (0.0110)
Avg % Abs = 13.2893 (0.0120)
STD DEV = 0.0050 (0.0017)
REL STD DEV = 0.038 (14.434)

CHANNEL 1 >>>>
Sol Value = 0.040 g/210L ***
Fit Value = 0.1905 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12842, Sum Io = 14188

CHANNEL 1 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 0.8370 (-0.0120)
Sample #2 = 0.8670 (-0.0190)
Sample #3 = 0.8610 (0.0030)
Sample #4 = 0.8430 (0.0050)
Avg % Abs = 0.8570 (-0.0037)
STD DEV = 0.0125 (0.0133)
REL STD DEV = 1.457 (363.182)

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.000	-0.0004
0.040	0.039	0.0005
0.100	0.100	0.0001
0.200	0.200	-0.0003
0.400	0.400	0.0001

Sol Value = 0.200 g/210L ***
Fit Value = 0.9524 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12839, Sum Io = 14184

CHANNEL 1 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 3.6810 (-0.0210)
Sample #2 = 3.6680 (-0.0060)
Sample #3 = 3.6890 (-0.0050)
Sample #4 = 3.6830 (-0.0070)
Avg % Abs = 3.6800 (-0.0067)
STD DEV = 0.0108 (0.0015)
REL STD DEV = 0.294 (22.913)

CHANNEL 2 >>>>
Sample % Abs (% Abs Ref)
Sample #1 = 13.2860 (-0.0060)
Sample #2 = 13.2840 (0.0140)
Sample #3 = 13.2900 (0.0110)
Sample #4 = 13.2940 (0.0110)
Avg % Abs = 13.2893 (0.0120)
STD DEV = 0.0050 (0.0017)
REL STD DEV = 0.038 (14.434)

CHANNEL 2 >>>>
Sol Val = 0.080 g/210L ***
Fit Value = 0.3810 mg/l %%%
Samples Taken = 4, Discarded = 1

CHANNEL 1 >>>>
Sample #1 = 3137.00
Sample #2 = 2999.00
Sample #3 = 3083.00
Sample #4 = 3151.00
Average Result = 3077.6667
STD DEV = 76.1402
REL STD DEV = 2.474

CHANNEL 2 >>>>
Sample #1 = 3286.00
Sample #2 = 3240.00
Sample #3 = 3247.00
Sample #4 = 3247.00
Average Result = 3244.6667
STD DEV = 4.0415
REL STD DEV = 0.125

Dry Gas H2O Adjust Results *****
Barometric Pressure = 1021
3 um H2O Adjust (mg/l*10,000) = 732
9 um H2O Adjust (mg/l*10,000) = 565
**** AUTO CAL PASS

Solution Stats Quadratic Fit Chan 2

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	0.000	-0.0004
0.040	0.039	0.0005
0.100	0.100	0.0001
0.200	0.200	-0.0003
0.400	0.400	0.0001

Stability Checks - Instrument # 80-001070 Durnellon PD 2/29/2016

after calibration

DM

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Model 8000 SN 80-001070
02/29/2016
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:41
Control Test	0.049	11:42
Air Blank	0.000	11:42
Control Test	0.049	11:43
Air Blank	0.000	11:43
Control Test	0.050	11:44
Air Blank	0.000	11:45
Control Test Stats	0.0493	
Average	0.0006	
Std Dev	1.1703	
Rel Std Dev(%)		

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Test	g/210L	Time
Air Blank	0.000	11:45
Control Test	0.079	11:46
Air Blank	0.000	11:47
Control Test	0.079	11:47
Air Blank	0.000	11:48
Control Test	0.079	11:49
Air Blank	0.000	11:49
Control Test Stats	0.0790	
Average	0.0000	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

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Test	g/210L	Time
Air Blank	0.000	11:50
Control Test	0.199	11:51
Air Blank	0.000	11:51
Control Test	0.198	11:52
Air Blank	0.000	11:53
Control Test	0.199	11:53
Air Blank	0.000	11:54
Control Test Stats	0.1987	
Average	0.0006	
Std Dev	0.2906	
Rel Std Dev(%)		

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Test	g/210L	Time
Air Blank	0.000	11:55
Control Test	0.080	11:56
Air Blank	0.000	11:56
Control Test	0.078	11:56
Air Blank	0.000	11:57
Control Test	0.080	11:57
Air Blank	0.000	11:58
Control Test Stats	0.0793	
Average	0.0012	
Std Dev	1.4555	
Rel Std Dev(%)		

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DGS

Operator's Signature

Operator's Signature

Operator's Signature

Operator's Signature