

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100421 Analyst C.O. Bryant Start Date 10/25/12
Diagnostic Test (attached) ☒

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI ☒

c. Adjust barometer reading to match NIST traceable barometer ☒

d. Adjust volume setting, if needed (1.5L +/- 0.1L) ☒

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1400 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/13

iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/13

iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N DR4178 Date Calibrated 02/21/12

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/13

1. Simulator S/N DR4162 Date Calibrated 10/09/12

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf Guth Lot 11100 Level 0.100 Exp 7/10/13

1. Simulator S/N DR5298 Date Calibrated 10/08/12

ii. Isopropanol - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1176 Date Calibrated 10/09/12

d. RFI ☒

6. Verify stylus is calibrated ☒

7. Verify card reader is functional ☒

8. Reset Options ☒

9. Clear Memory ☒

10. Verification of Calibration ☒

11. Non-Drinking Subject Test (attached) ☒

12. Upload ☒

13. Update agency information and polling status in DM Host Calling Program ☒

End Date 10/25/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/25/2012
Time: 08:42:01

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 47.5°C	PASSED

PUMP INFO	
Flow Rate = 5.066 L/M	PASSED

DETECTOR INFO	
PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO	
Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Technician Screen

Joint Base Elmendorf - Richardson
DATAMASTER dmt: 100421

Date: 10/25/2012
Time: 8:56 AM

Temperatures (°C)
Sample Cell: 48.7°C
Breath Tube: 48.0°C

Current Barometer 30.3 in
Volume (Ltr) 1.60

Settings
Lamp: 1.66 V
Bias: 80 V
Cooler: 1.63 V
Chopper: 534 Hz

Voltages (V)
Flow: 1.08 V
Detector: 0.098 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100421

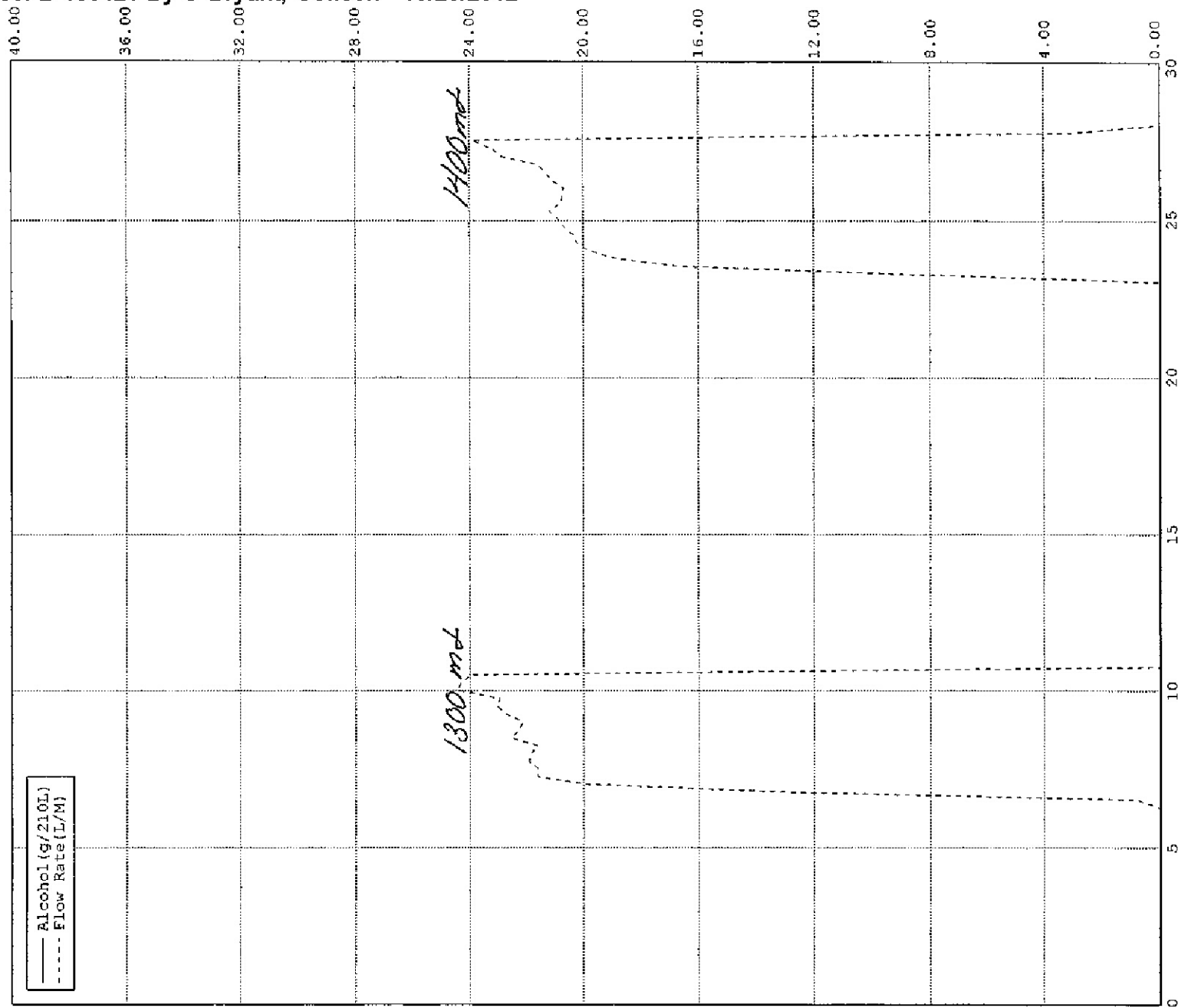
Date: 07/28/2011
Time: 14:46:11

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 705
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 1.000419 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0027 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.1013 0.0500 <= Xq < 0.2000
a21 = 1.117763 1.050 <= a21 < 1.300
a31 = 0.453616 0.300 <= a31 < 0.800

COB 4/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 10/25/2012
 Time: 09:00:26

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.29: 0.081

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:01
BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:02
EXTERNAL STANDARD	0.081	09:02
BLANK TEST	0.000	09:03
SUBJECT SAMPLE	0.000	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.080	09:04
BLANK TEST	0.000	09:05

CB

10/25/12

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100421

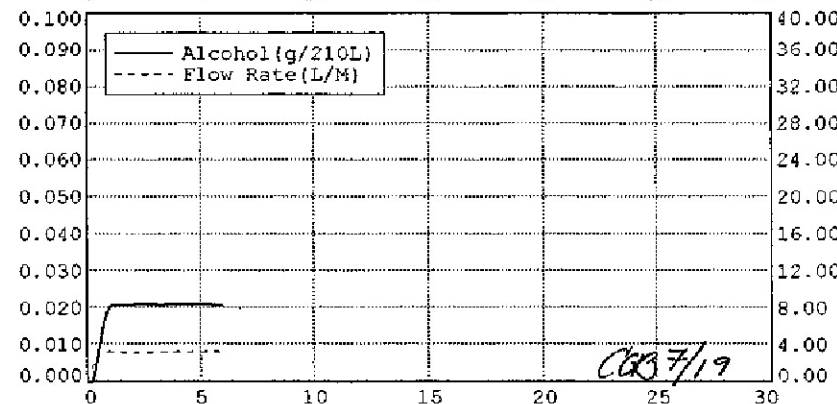
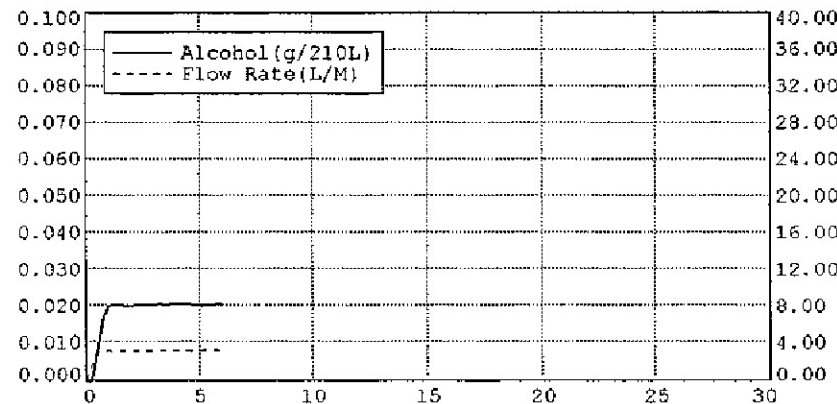
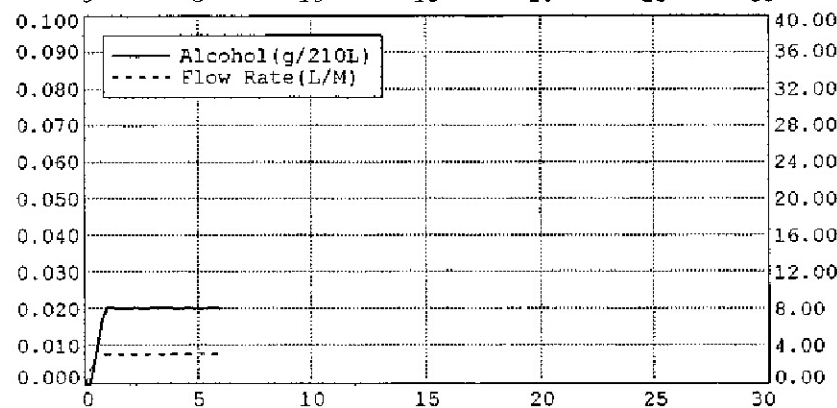
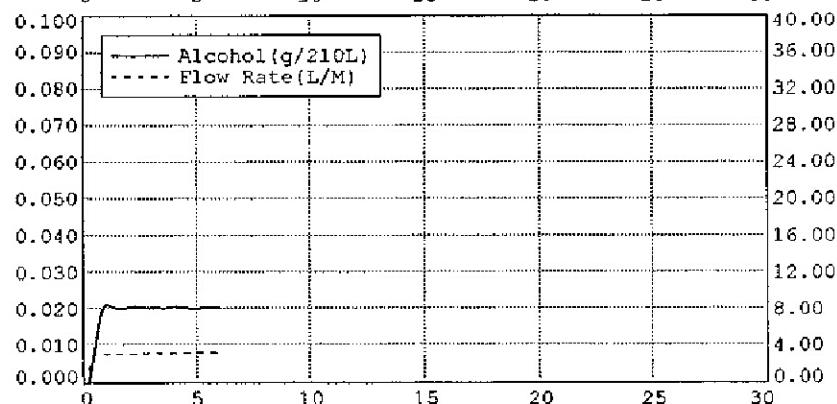
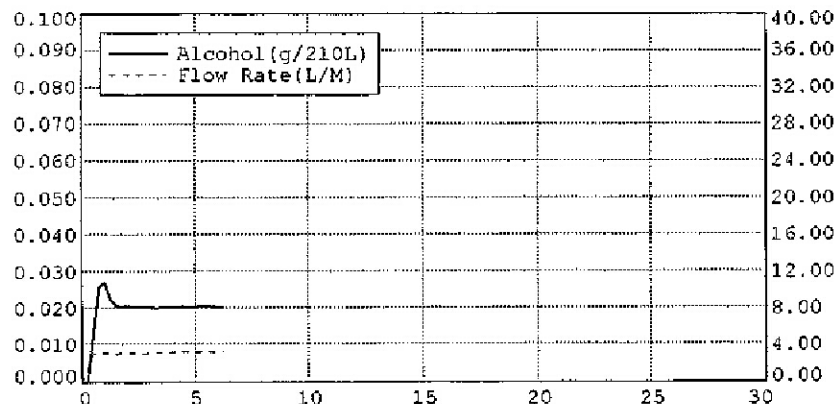
Date: 10/25/2012
Time: 09:14:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.30: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.021	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.021	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.021	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.021	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.021	09:20
BLANK TEST	0.000	09:21

Average = 0.0213
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100421

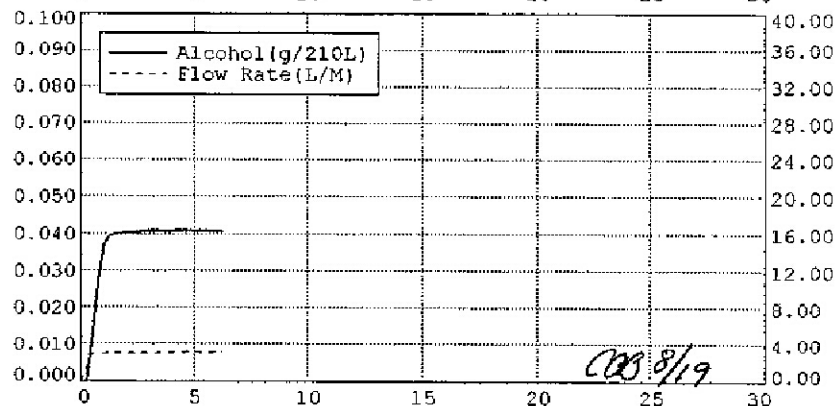
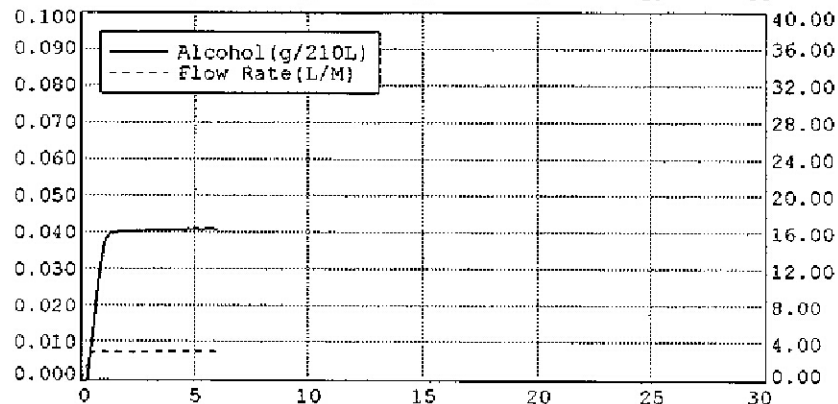
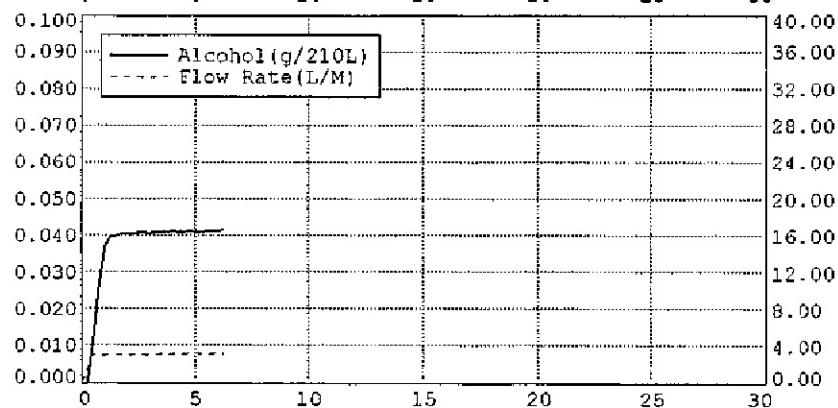
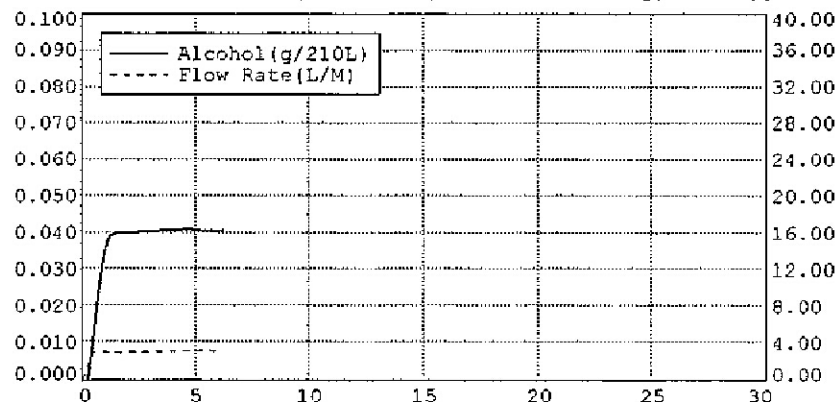
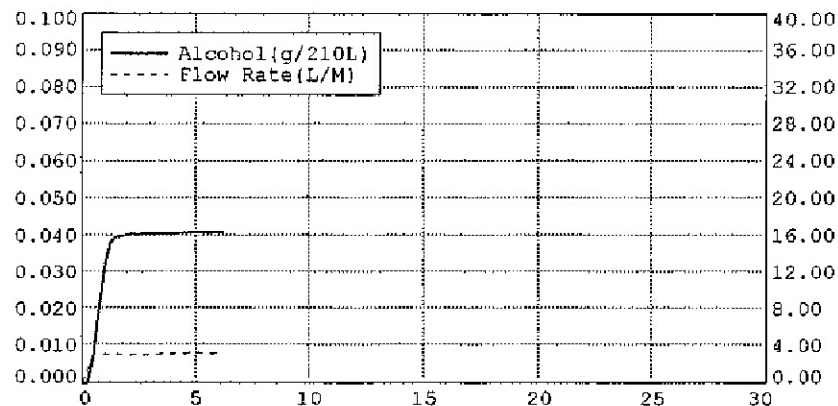
Date: 10/25/2012
Time: 09:24:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.30: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
EXTERNAL STANDARD	0.041	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.041	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.041	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.041	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.041	09:29
BLANK TEST	0.000	09:30

Average = 0.0416
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100421

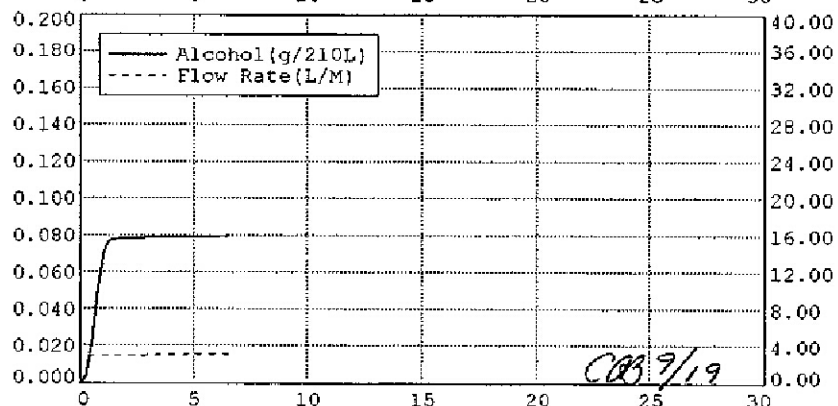
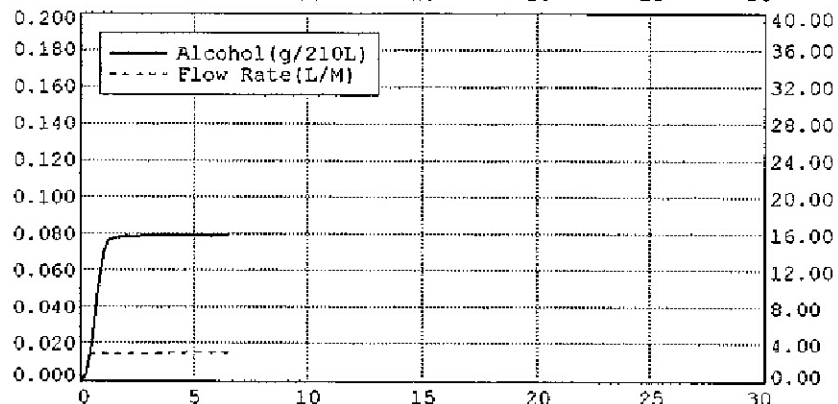
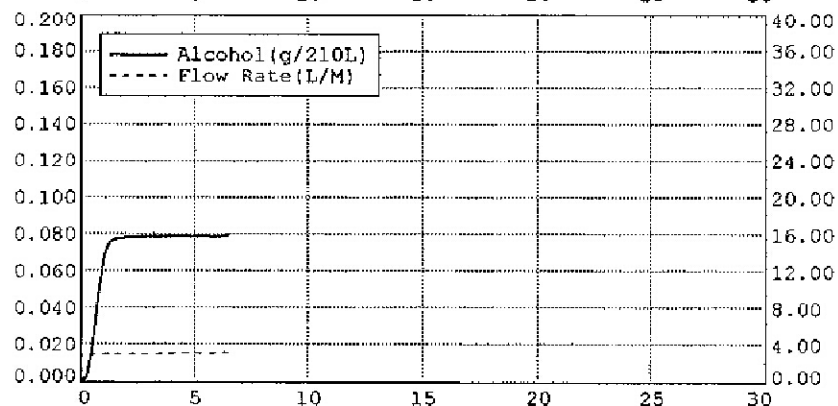
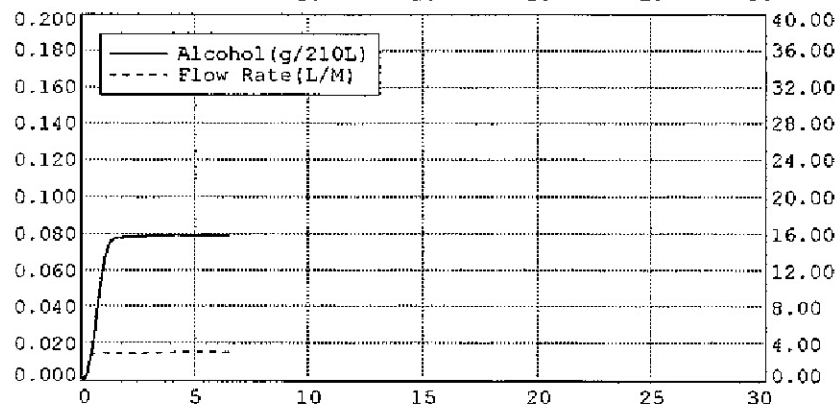
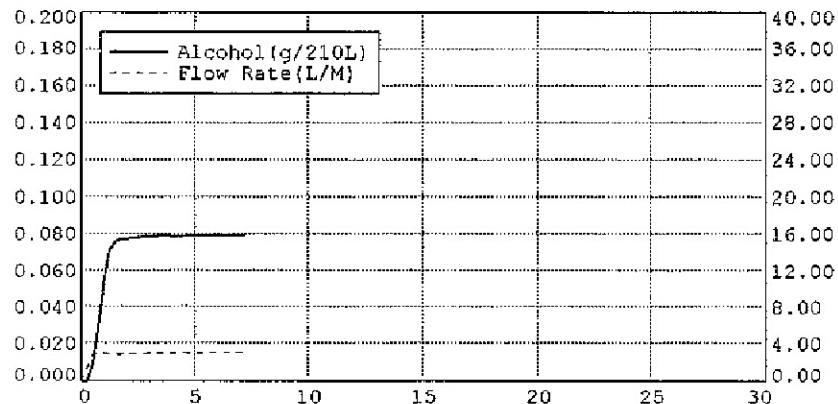
Date: 10/25/2012
Time: 09:45:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.30: 0.081
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
EXTERNAL STANDARD	0.080	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.080	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.079	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.080	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.080	09:51
BLANK TEST	0.000	09:52

Average = 0.0801
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100421

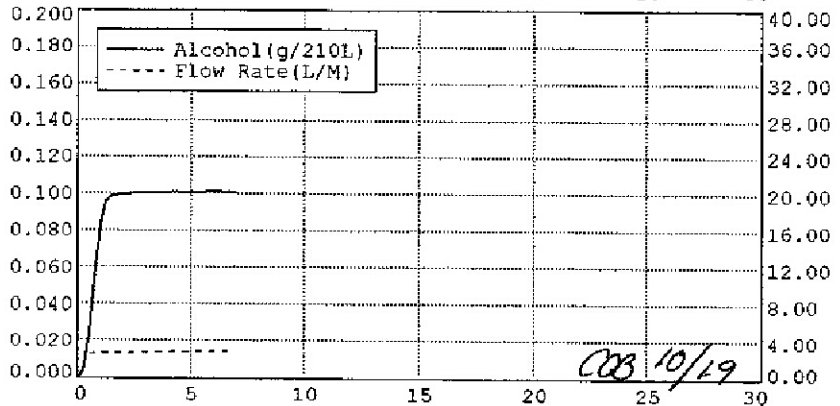
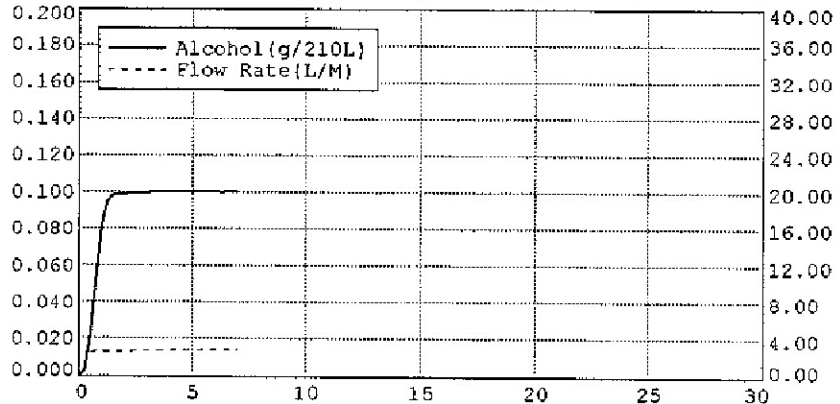
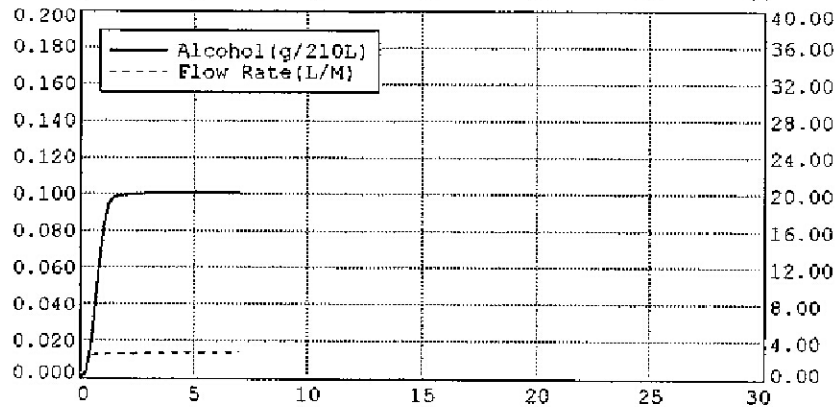
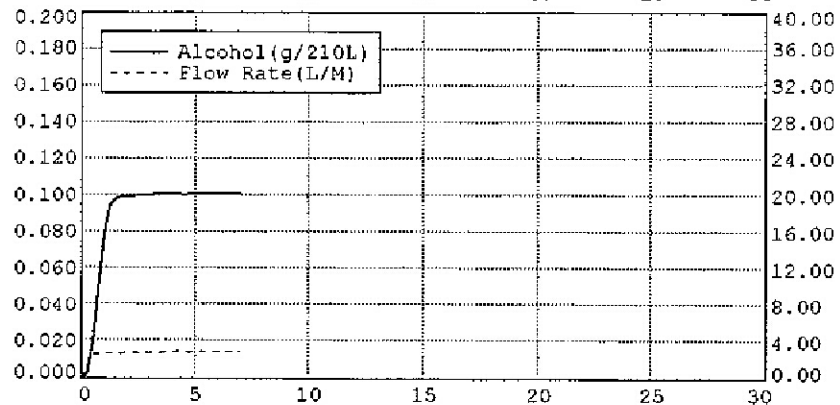
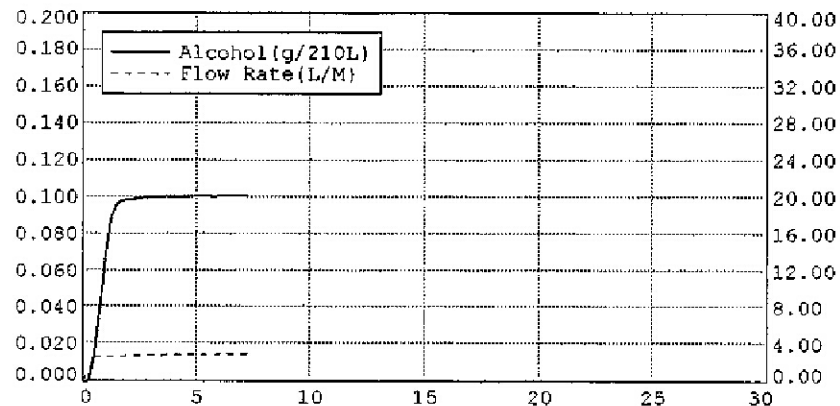
Date: 10/25/2012
Time: 09:54:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.30: 0.101
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:55
EXTERNAL STANDARD	0.101	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.101	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.101	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.101	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.101	10:00
BLANK TEST	0.000	10:00

Average = 0.1013
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

 Alaska Department of Public Safety
 DATAMASTER dmt: 100421

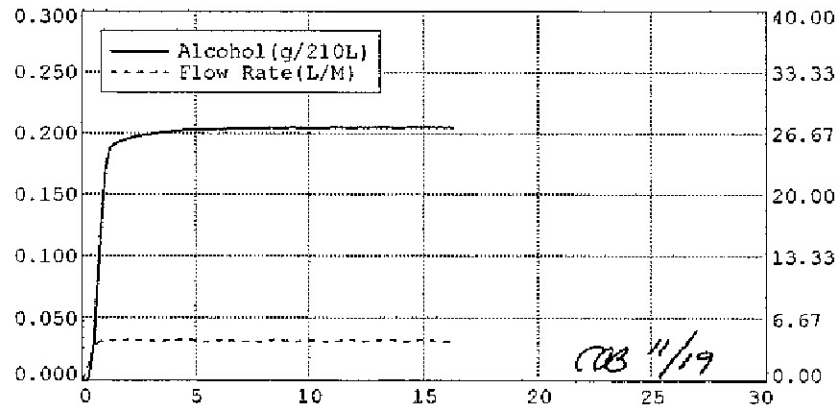
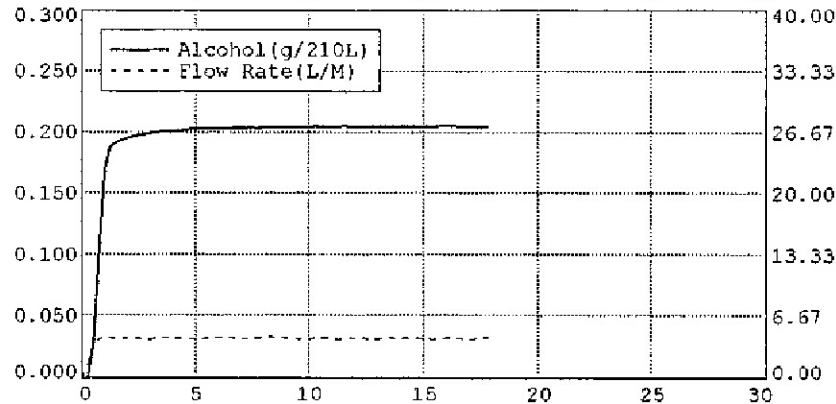
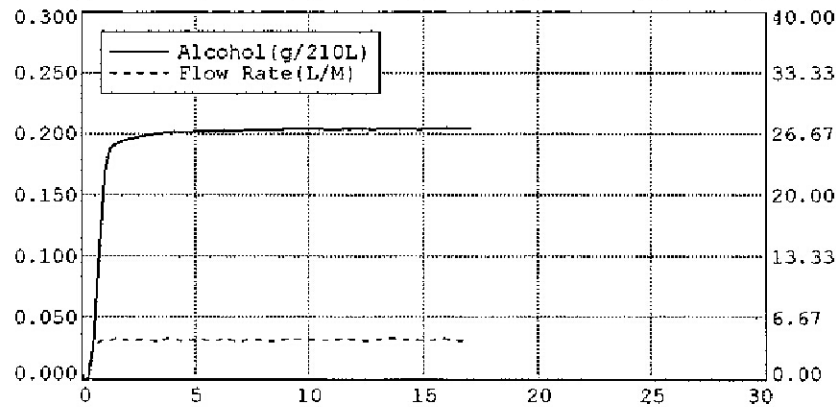
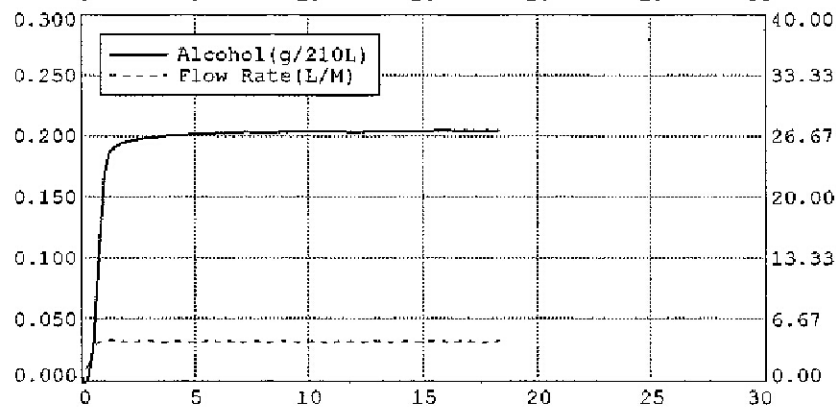
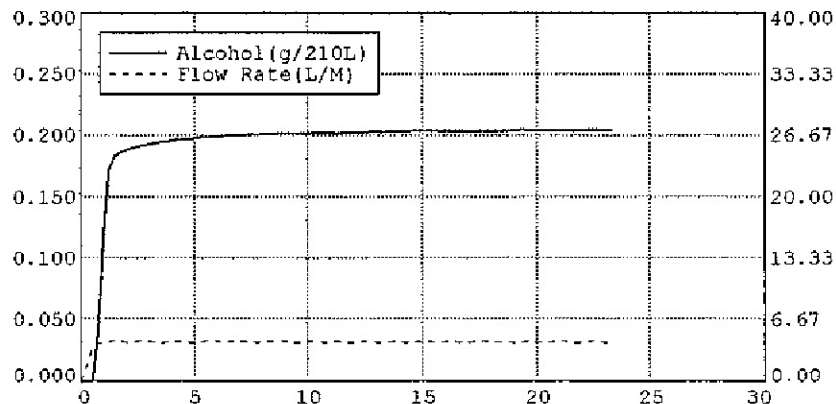
Date: 10/25/2012
 Time: 10:03:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.204	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.205	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.204	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.205	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.206	10:10
BLANK TEST	0.000	10:11

Average = 0.2053
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100421

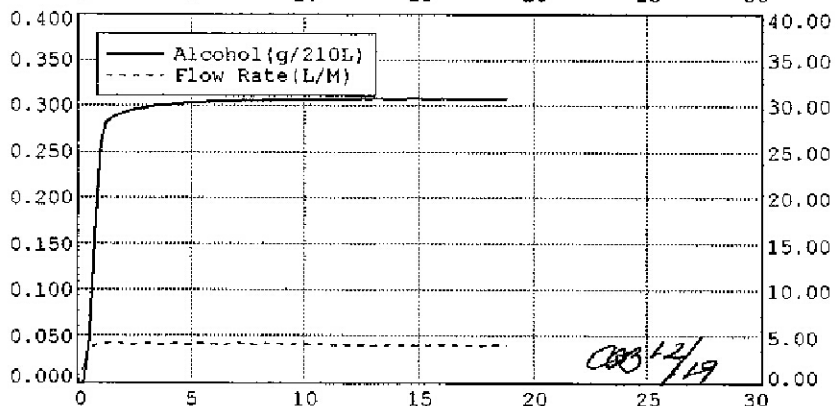
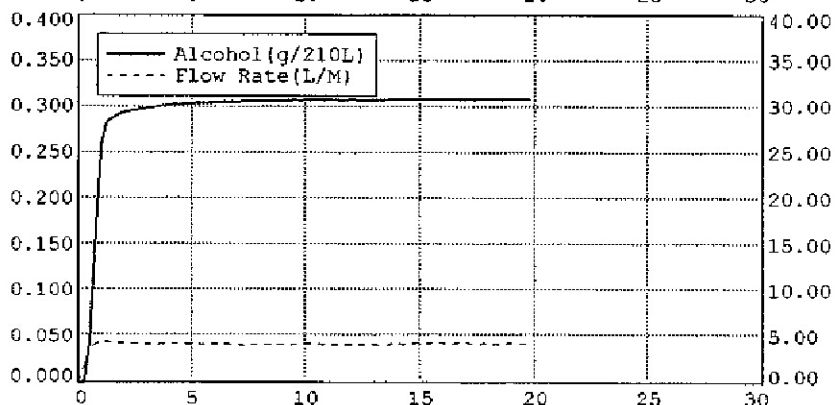
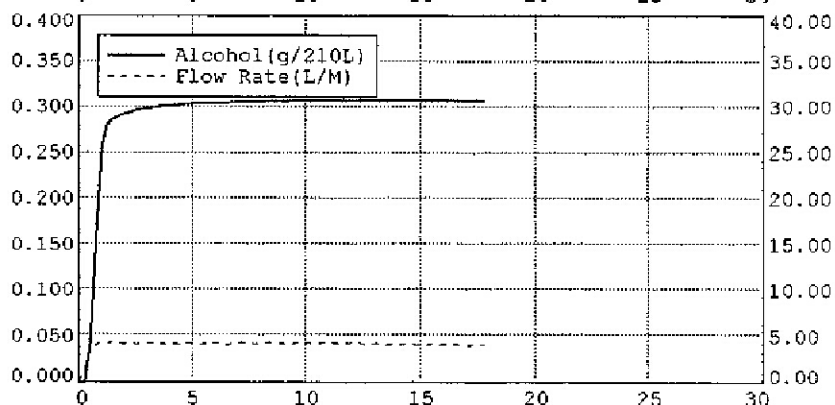
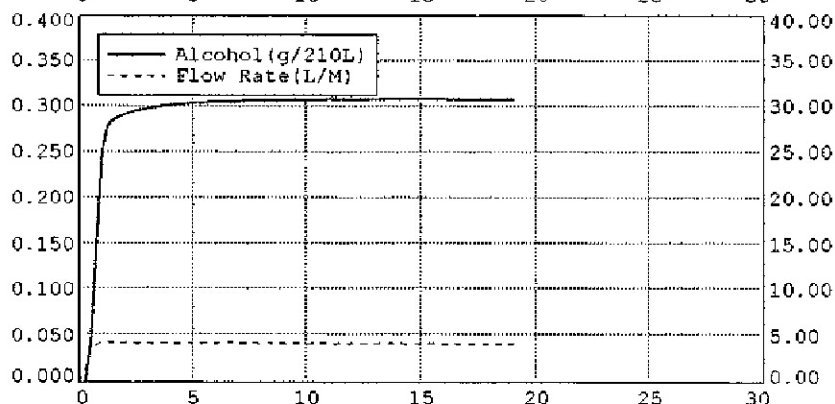
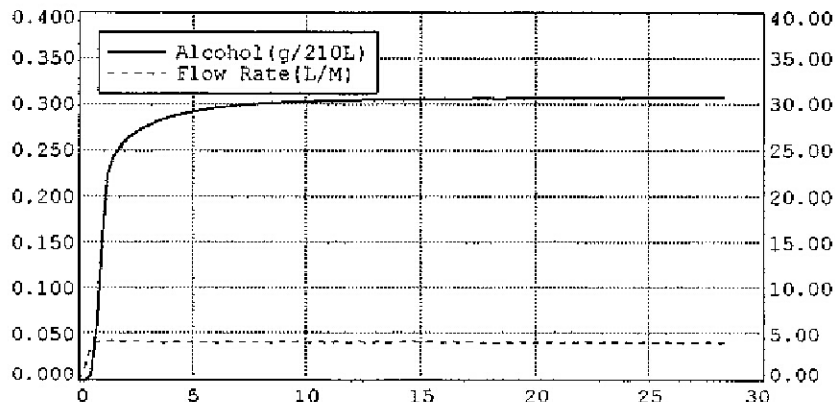
Date: 10/25/2012
Time: 10:24:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.307	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.307	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.307	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.307	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.307	10:31
BLANK TEST	0.000	10:32

Average = 0.3076
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 10/25/2012
 Time: 10:41:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

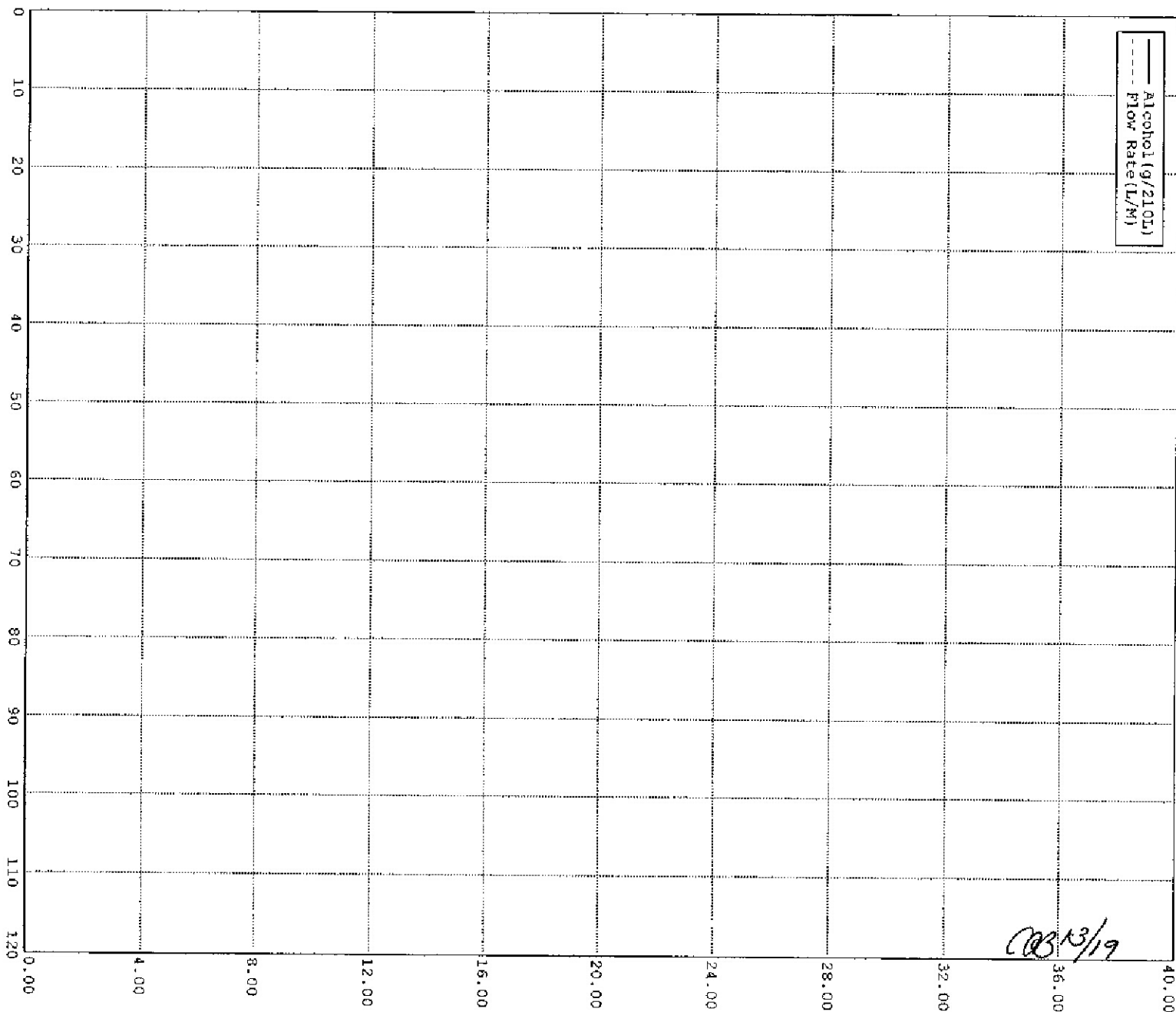
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.31: 0.081
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:42
BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.080	10:42
BLANK TEST	0.000	10:43
SUBJECT SAMPLE	INCOMPLETE	10:45

28

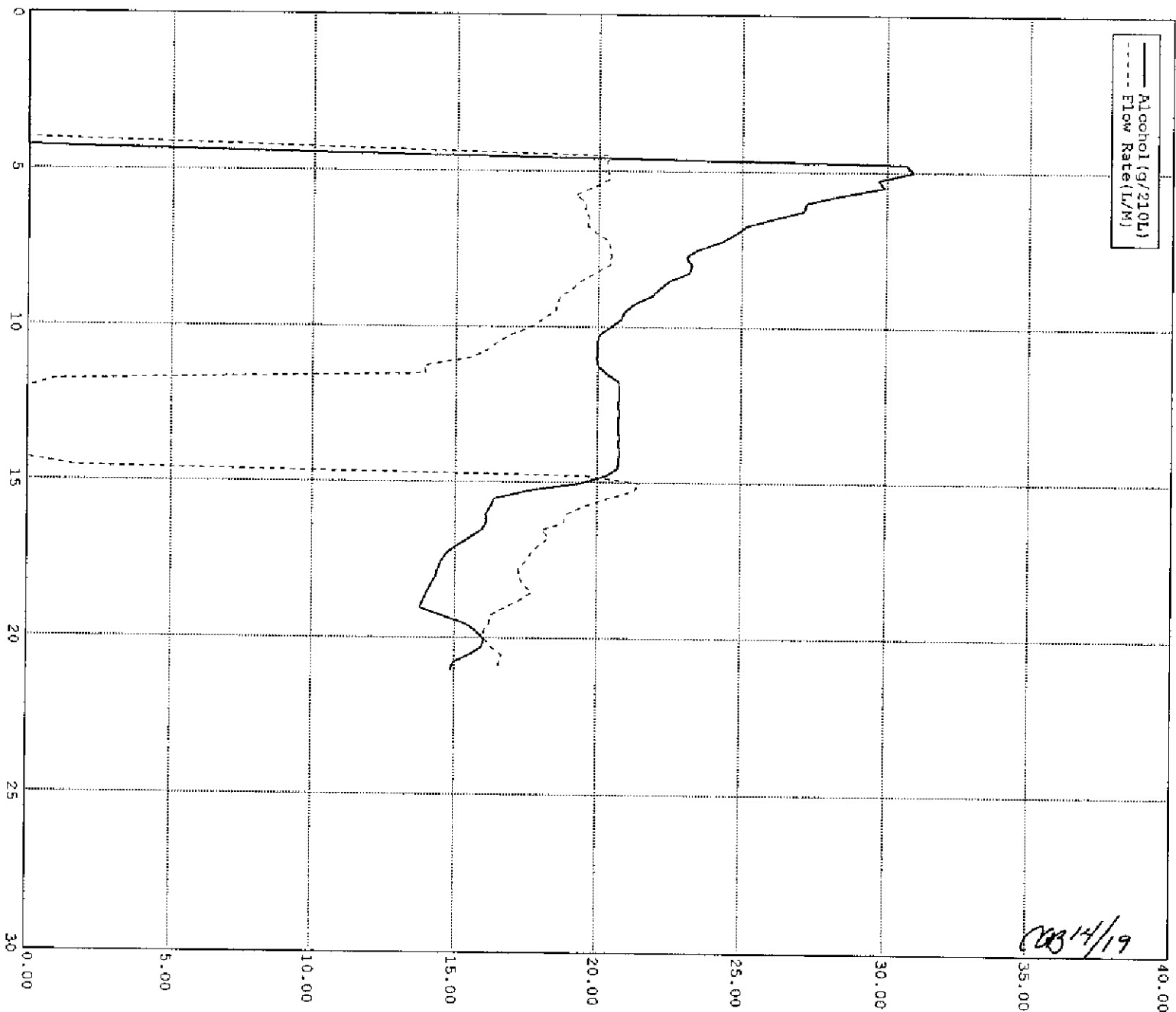


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100421Date: 10/25/2012
Time: 10:47:56SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.31: 0.081
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:49
BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.080	10:49
BLANK TEST	0.000	10:50
SUBJECT SAMPLE	INVALID	10:51

MB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100421

Date: 10/25/2012
 Time: 11:07:49

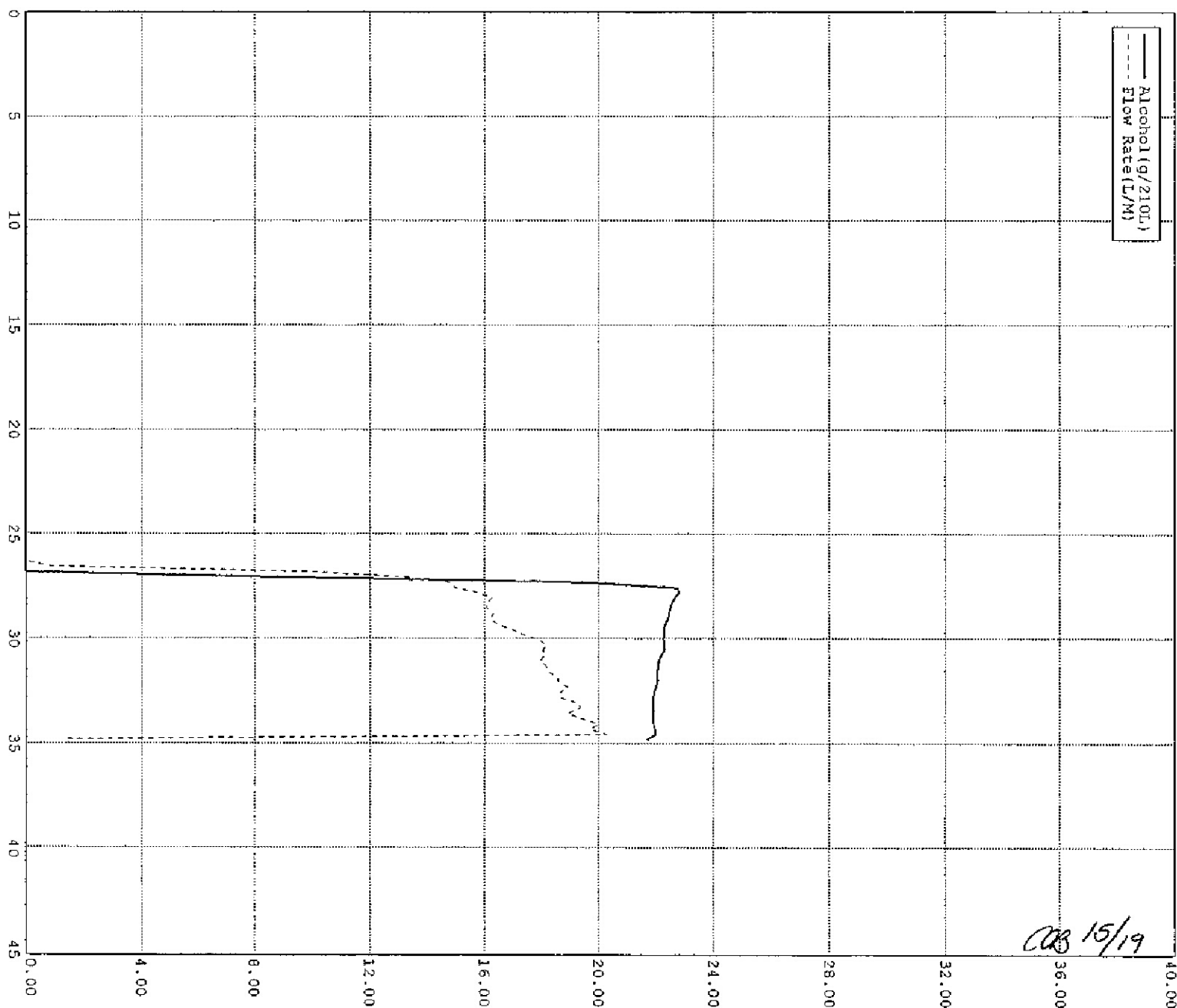
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAI
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.31: 0.081
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:08
BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:09
X _g = 0.101 (0.00%)		
EXTERNAL STANDARD	0.080	11:09
X[1] = 0.0809 (0.0009)	(0.0023)	
BLANK TEST	0.000	11:10
SUBJECT SAMPLE	INTERFERENCE	11:10
X[1] = 0.1088 (-0.0199)	(0.0013)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 10/25/2012
 Time: 11:02:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAl
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.31: 0.081
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

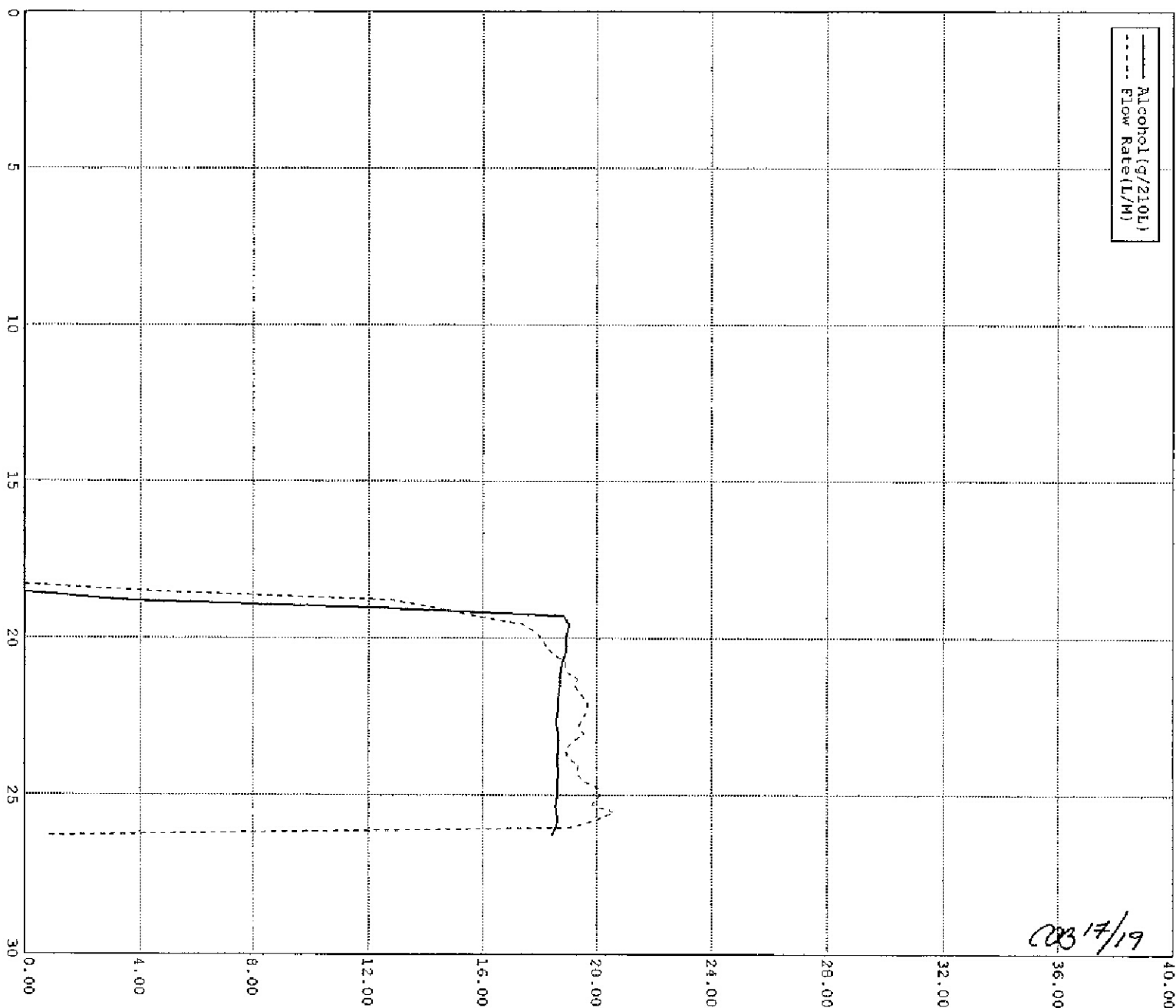
DIAGNOSTIC CHECK	PASSED	11:03
BLANK TEST	0.000	11:03
INTERNAL STANDARD	VERIFIED	11:03
Xq = 0.100 (0.87%)		
EXTERNAL STANDARD	0.080	11:04
X[1] = 0.0800 (-0.0003) (0.0018)		
BLANK TEST	0.000	11:05
SUBJECT SAMPLE	INTERFERENCE	11:05
X[1] = 0.1210 (-0.0203) (0.0028)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421Date: 10/25/2012
Time: 10:54:40SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG CONTOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.31: 0.081
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:55
BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
Xg = 0.101 (0.43%)		
EXTERNAL STANDARD	0.080	10:56
X[1] = 0.0801 (0.0001)	(0.0024)	
BLANK TEST	0.000	10:57
SUBJECT SAMPLE (Vol=2.37L)	0.092	10:57
X[1] = 0.0928 (-0.0007)	(0.0008)	
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.080	10:58
X[1] = 0.0802 (0.0004)	(0.0018)	
BLANK TEST	0.000	10:59



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/25/2012

Time: 11:13:12

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.31: 0.081

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

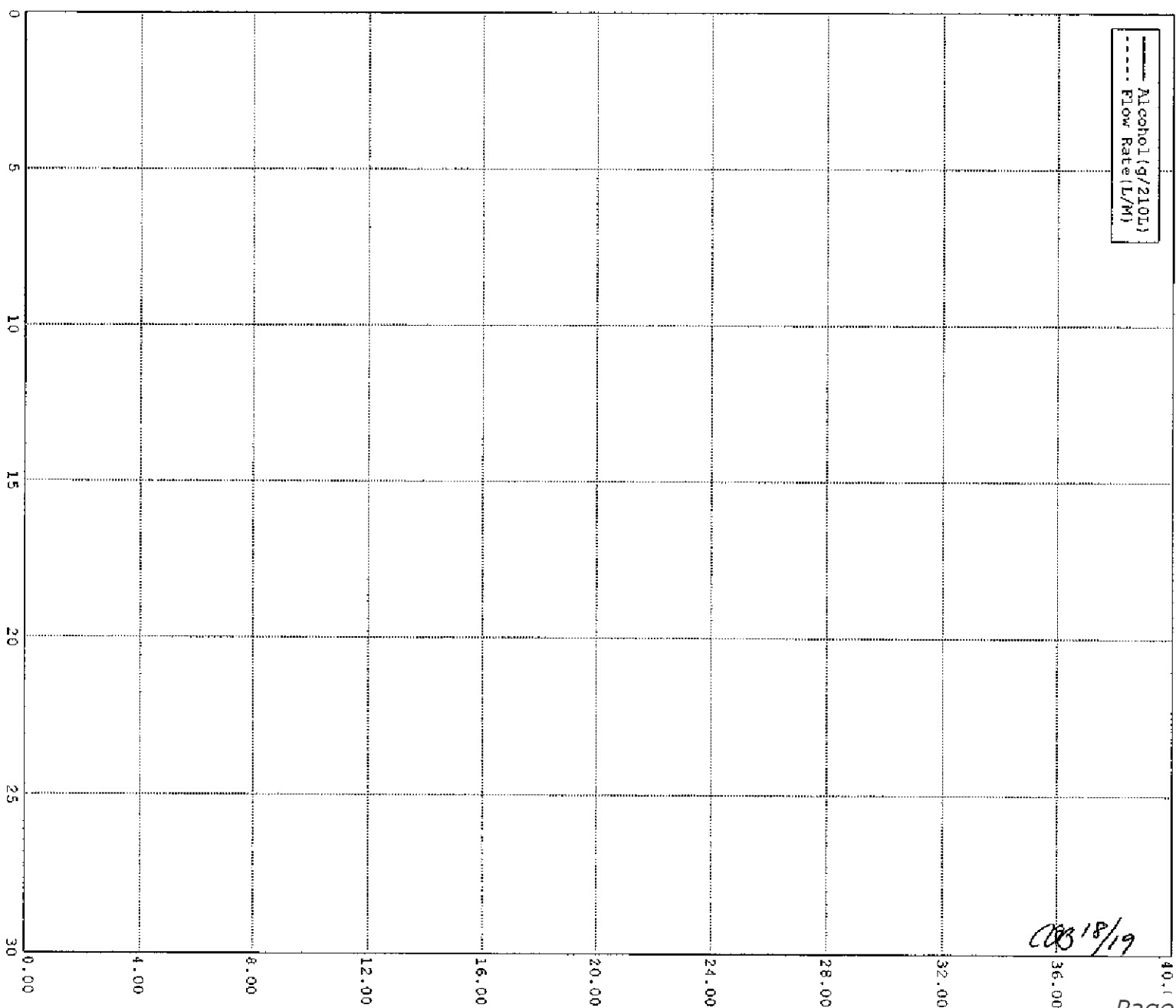
BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

PASSED 11:19
0.000 11:19
VERIFIED 11:19
0.080 11:19
0.000 11:20

RFI DETECTED

Alcohol (g/210L)
Flow Rate (L/M)

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100421

Date: 10/25/2012
 Time: 11:35:35

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

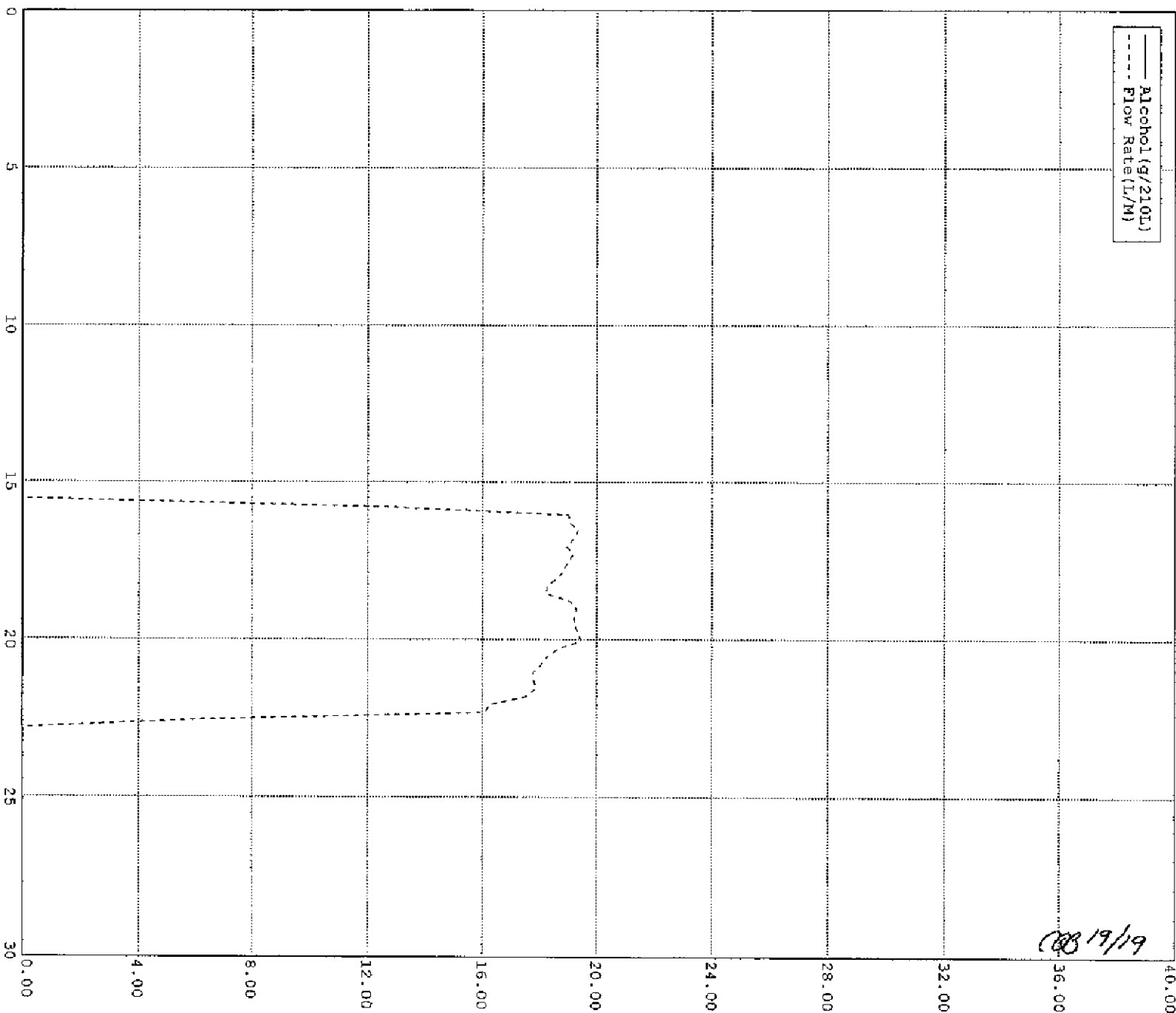
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.32: 0.081
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:36
BLANK TEST	0.000	11:36
INTERNAL STANDARD	VERIFIED	11:36
EXTERNAL STANDARD	0.080	11:37
BLANK TEST	0.000	11:37
SUBJECT SAMPLE	0.000	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.081	11:39
BLANK TEST	0.000	11:40

COB



Final page for report

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2/18/2014