

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100361 Analyst Colleen O'Bryant Start Date 12/9/13
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 1.000 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15v. 0.200g/210L Mnf GUHH Lot 12120 Exp 8/10/141. Simulator S/N SD1088 Date Calibrated 1/23/13vi. 0.300g/210L Mnf GUHH Lot 13080 Exp 3/19/151. Simulator S/N SD1198 Date Calibrated 1/23/13

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. ^{Neg. Control} Acetone - Mnf GUHH Lot 13010 Level 0.100 Exp 1/9/15
~~03 Acetone~~1. Simulator S/N SD1199 Date Calibrated 1/23/13ii. Isopropanol - Mnf GUHH Lot 13010 Level 0.100 Exp 1/9/151. Simulator S/N SD1177 Date Calibrated 1/23/13iii. ^{03 Acetone} ~~Negative Control~~ - Mnf GUHH Lot 13010 Level 0.100 Exp 1/9/151. Simulator S/N DR4161 Date Calibrated 1/24/13d. 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 12/19/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 12/09/2013
Time: 15:10:02

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 43.5°C	PASSED

PUMP INFO

Flow Rate = 5.006 L/M	PASSED
-----------------------	--------

DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

INTERNAL STANDARD	PASSED
-------------------	--------

Technician Screen

DATAMASTER dmt: 100361

Date: 12/09/2013

Time: 3:39 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 44.3°C

Current Barometer 30.0 in

Volume (Ltr) 1.42

Settings

Lamp: 1.92 V

Bias: 80 V

Cooler: 1.84 V

Chopper: 547 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.002 V

CALIBRATION FACTORS

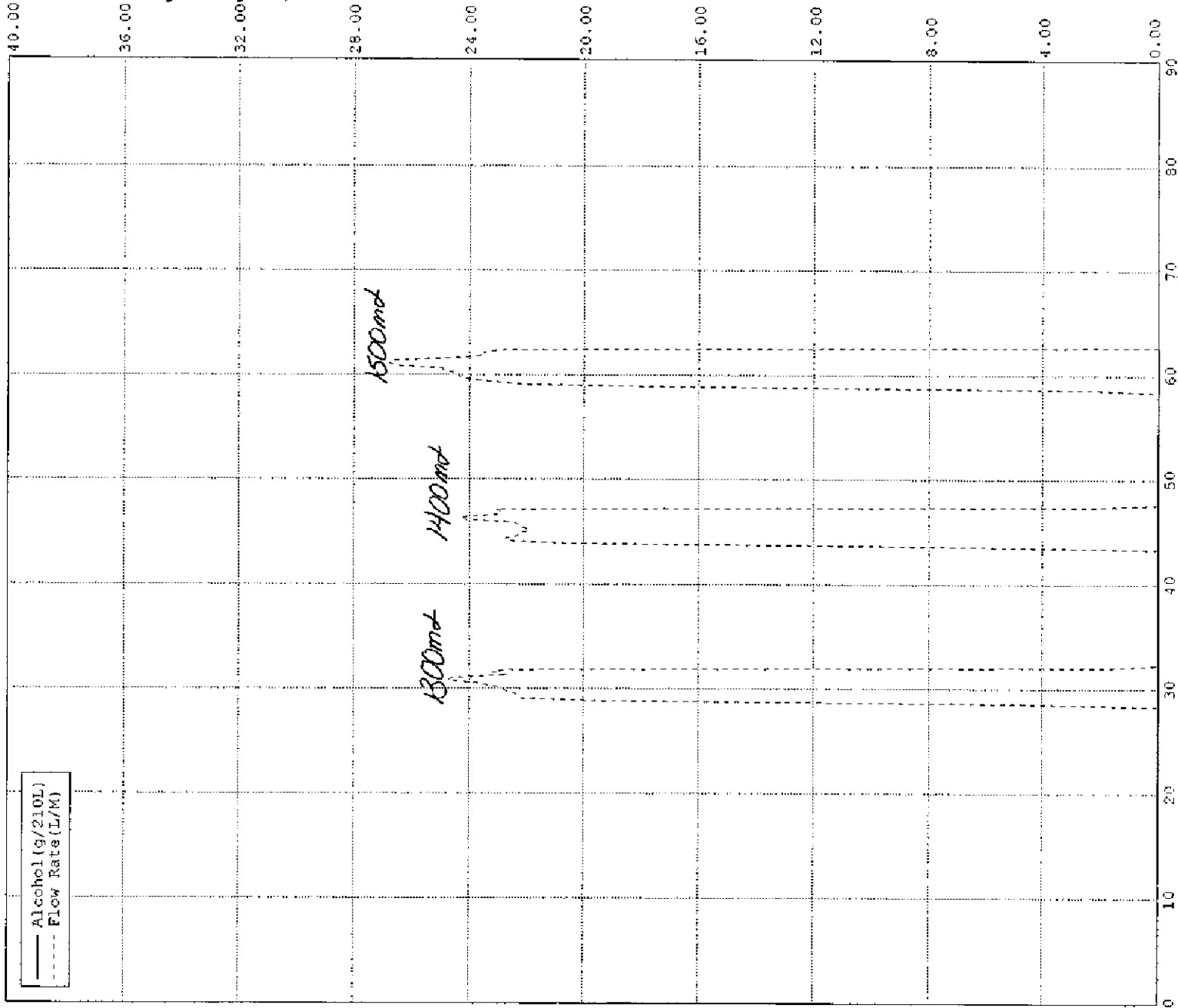
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/02/2011
Time: 14:04:52

OPERATOR NAME:
COLLEEN OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.999924 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xg = 0.0749 0.0500 <= Xg < 0.2000
a21 = 1.193542 1.050 <= a21 < 1.300
a31 = 0.505376 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 12/10/2013
 Time: 08:34:07

SUBJECT NAME:

TEST TEST

LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.84: 0.079

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

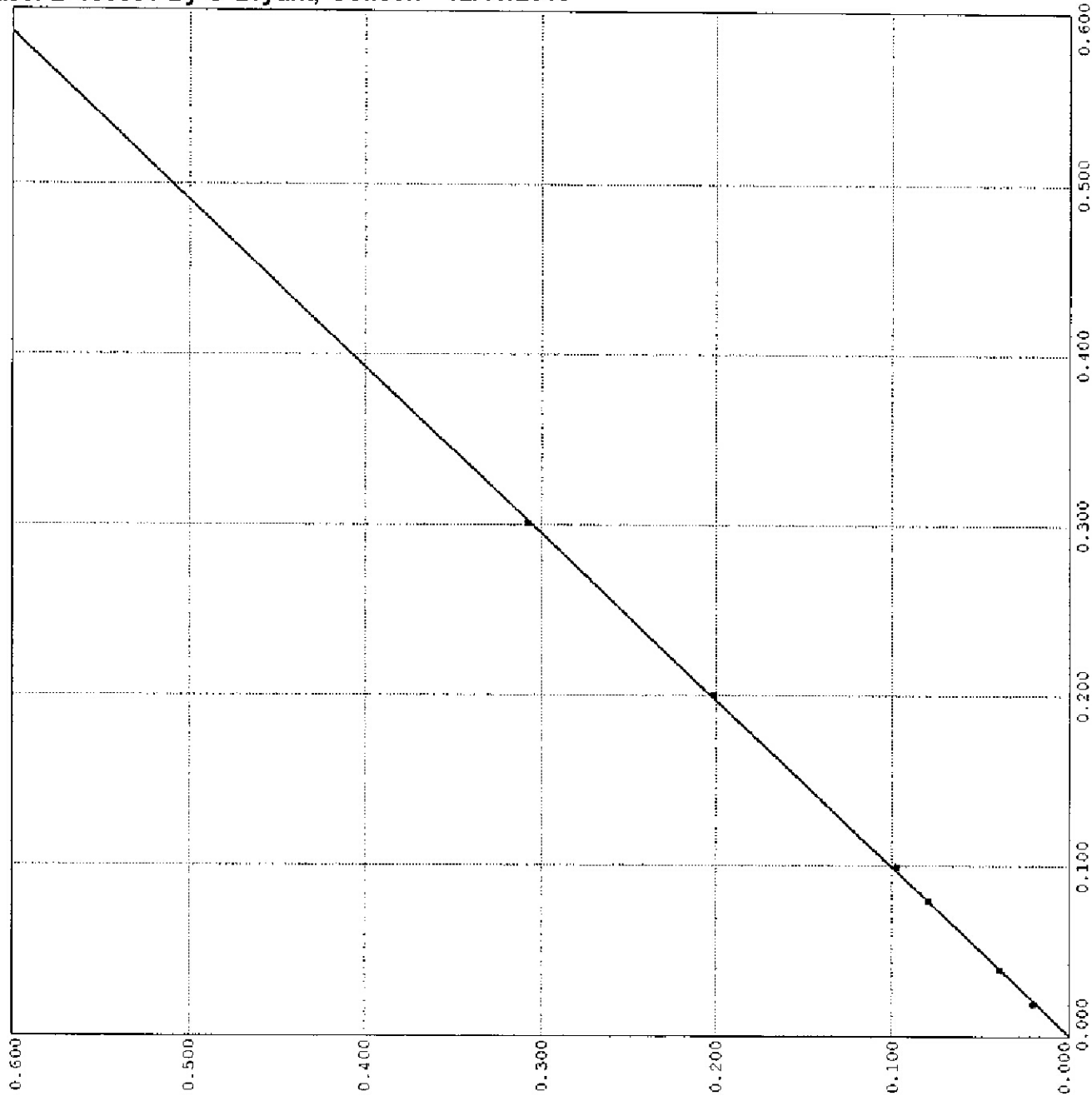
SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED	08:35
0.000	08:36
VERIFIED	08:36
0.080	08:36
0.000	08:37
0.000	08:38
0.000	08:39
0.080	08:39
0.000	08:40



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 12/10/2013
 Time: 08:47:50

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0002
0.039	0.0403	0.0004
0.079	0.0806	0.0005
0.099	0.0983	0.0004
0.200	0.2023	0.0010
0.300	0.3086	0.0008

SLOPE = 1.023014
 R^2 = 0.999684

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

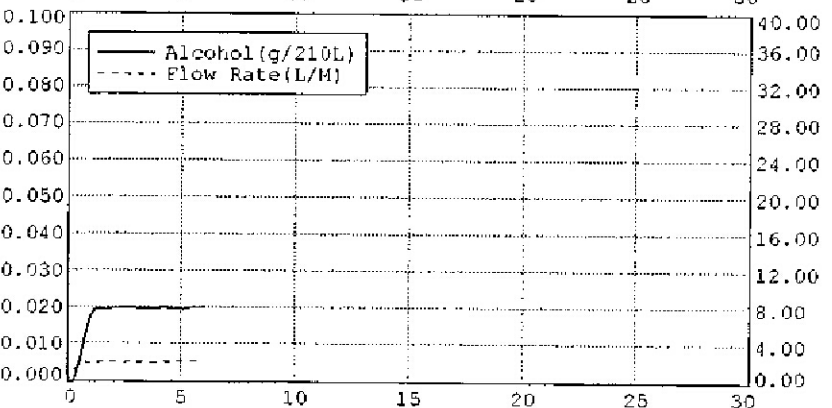
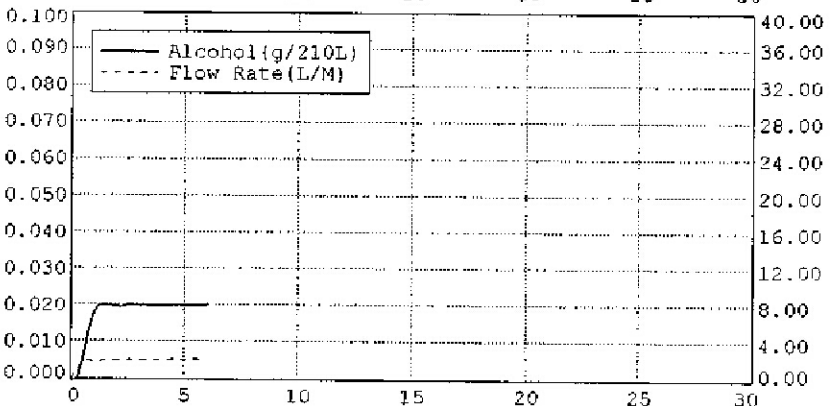
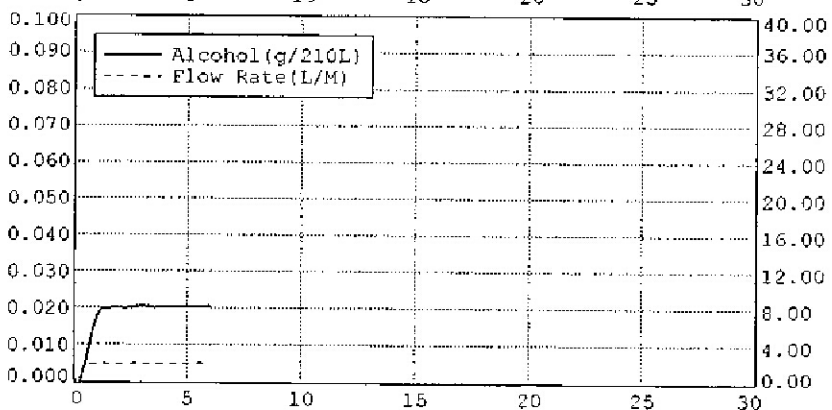
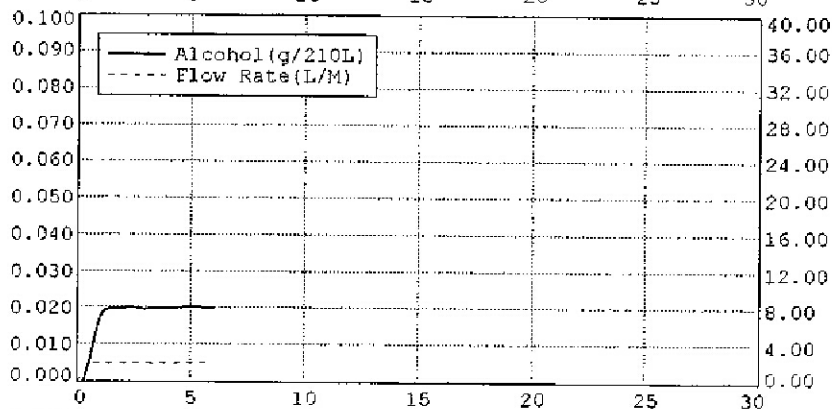
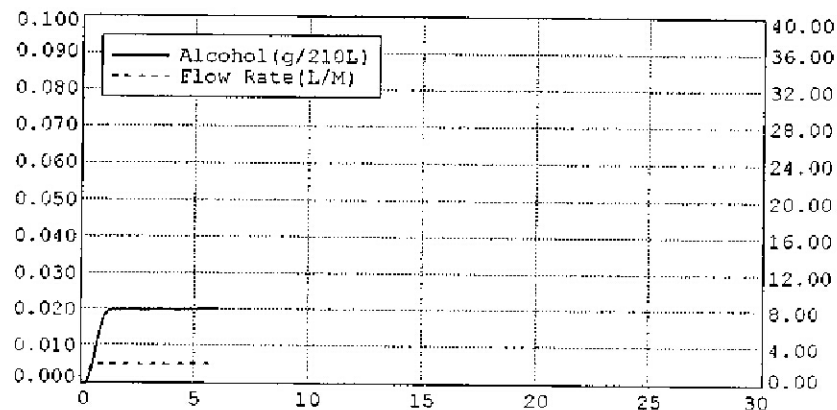
Date: 12/10/2013
Time: 08:47:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.82: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:03
INTERNAL STANDARD	VERIFIED	09:03
EXTERNAL STANDARD	0.021	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.021	09:05
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.021	09:06
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.020	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.020	09:08
BLANK TEST	0.000	09:09

Average = 0.0210
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100361

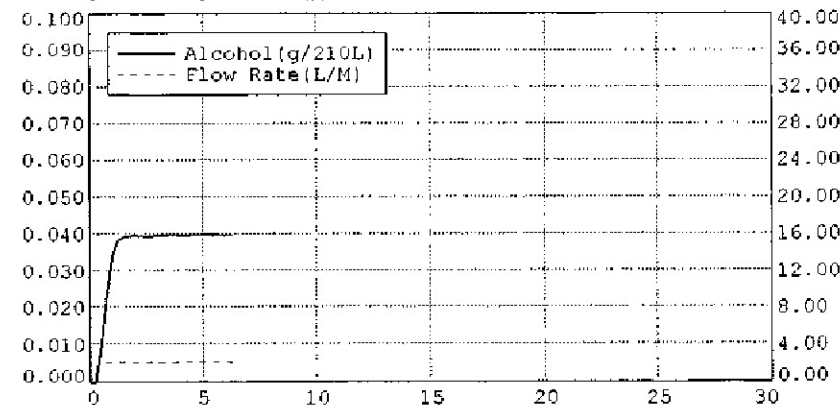
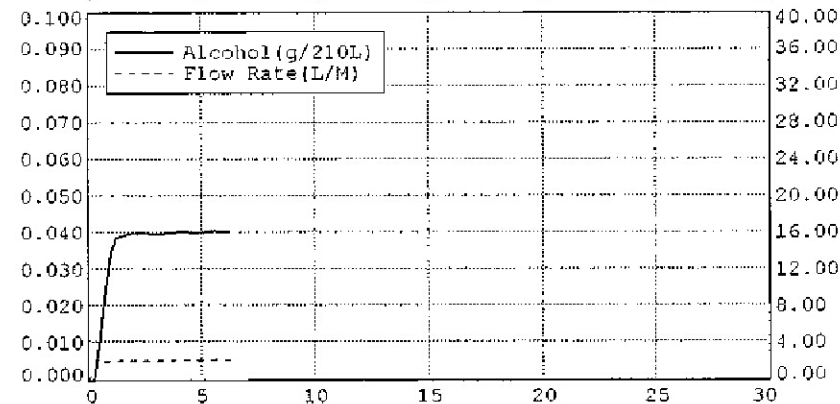
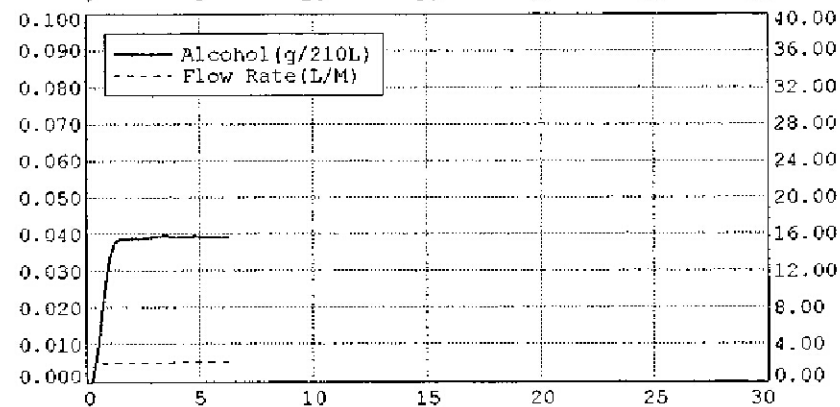
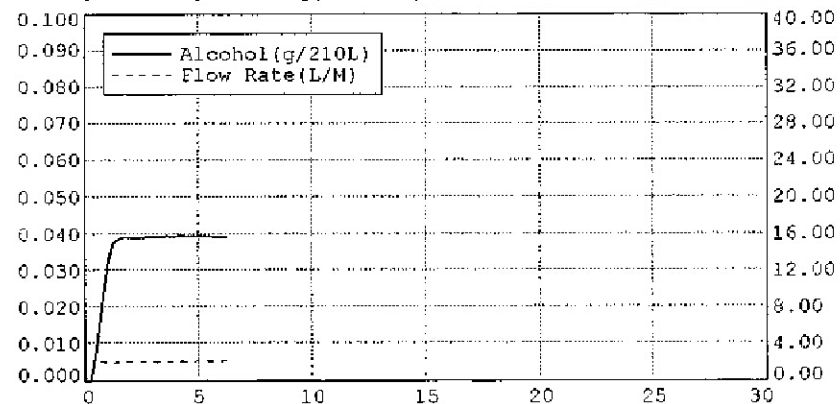
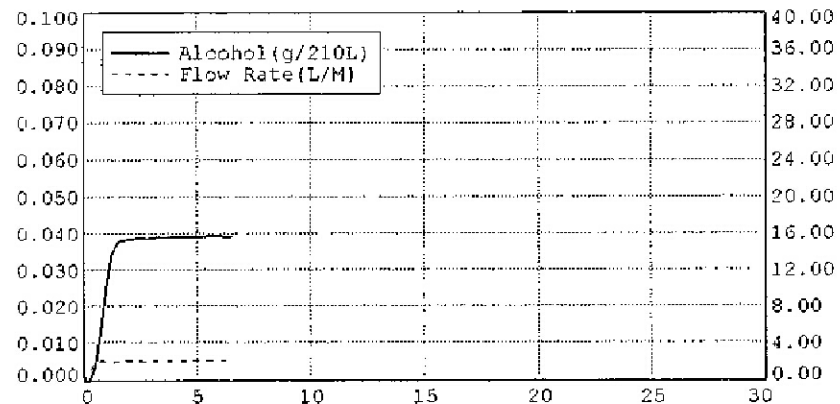
Date: 12/10/2013
Time: 09:21:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.83: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:22
EXTERNAL STANDARD	0.040	09:23
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.040	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.040	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.040	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.040	09:27
BLANK TEST	0.000	09:28

Average = 0.0403
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100361

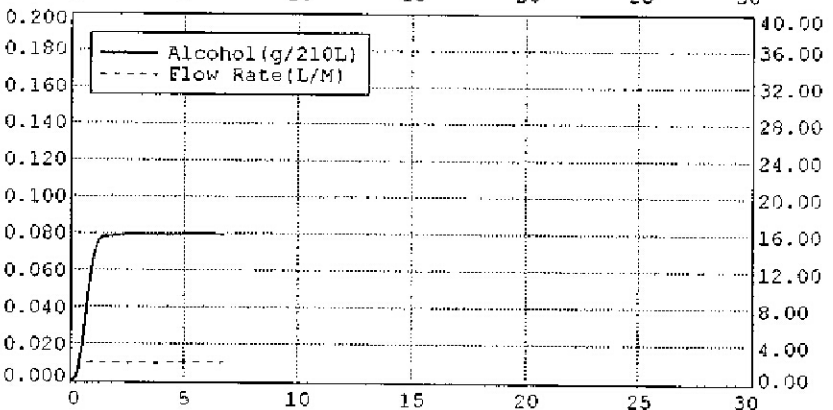
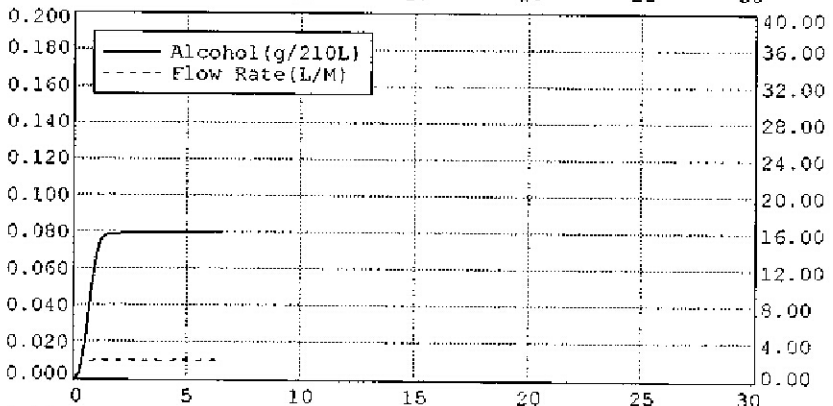
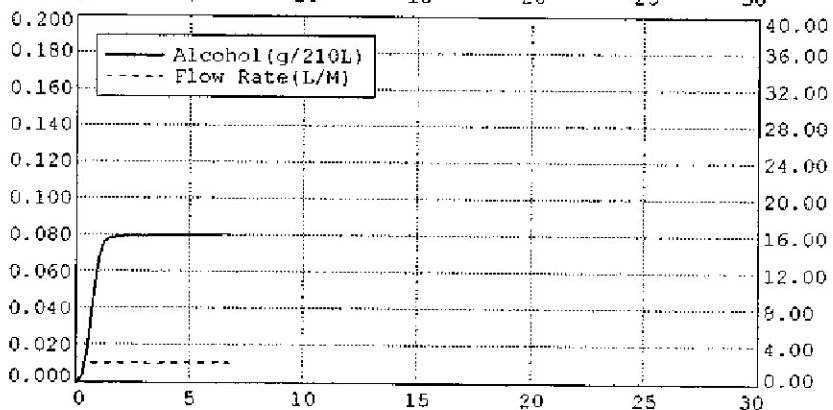
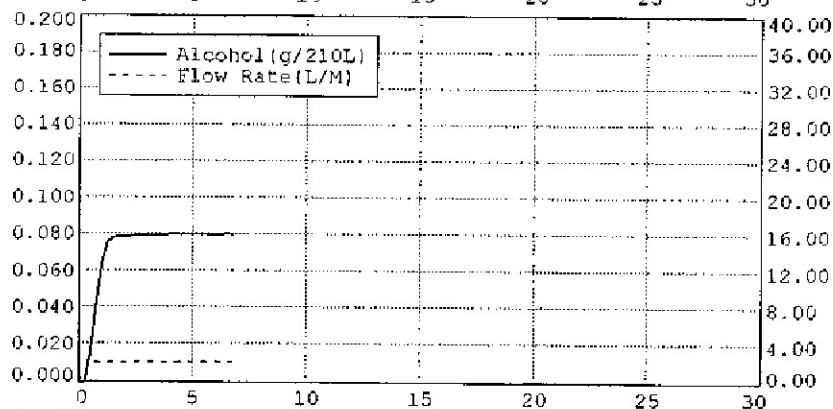
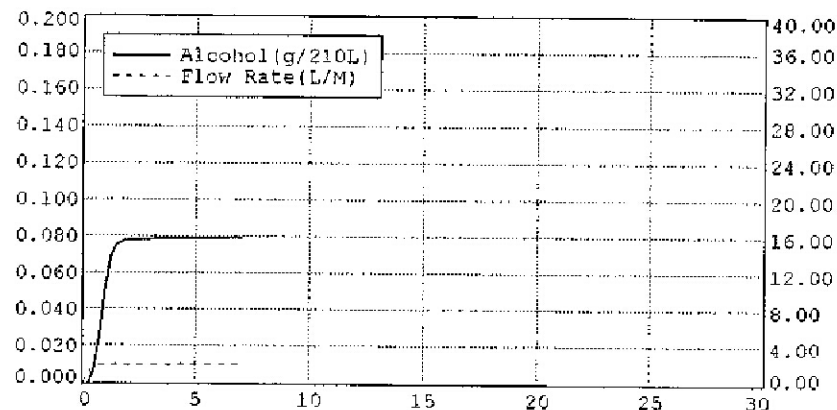
Date: 12/10/2013
Time: 09:30:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	09:31
INTERNAL STANDARD	VERIFIED	09:31
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.080	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.081	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.080	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.080	09:36
BLANK TEST	0.000	09:37

Average = 0.0806
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100361

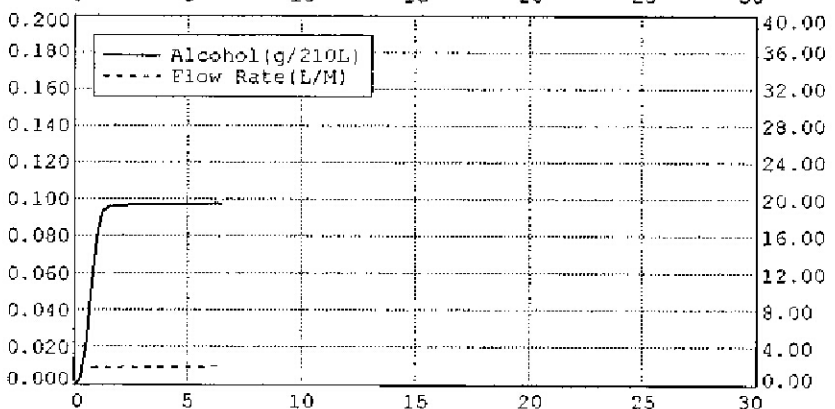
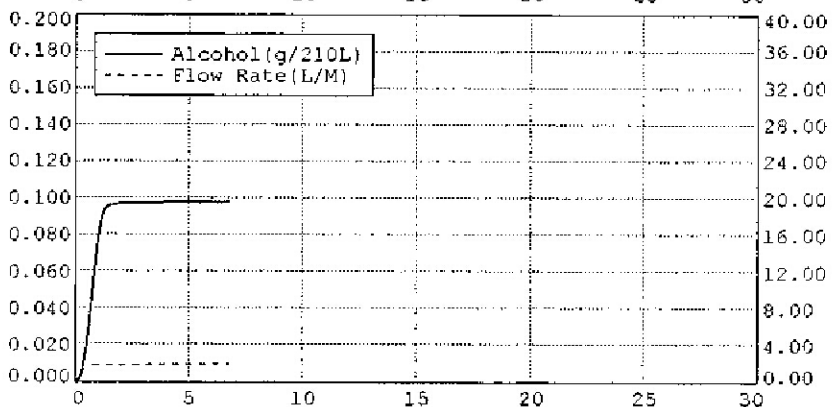
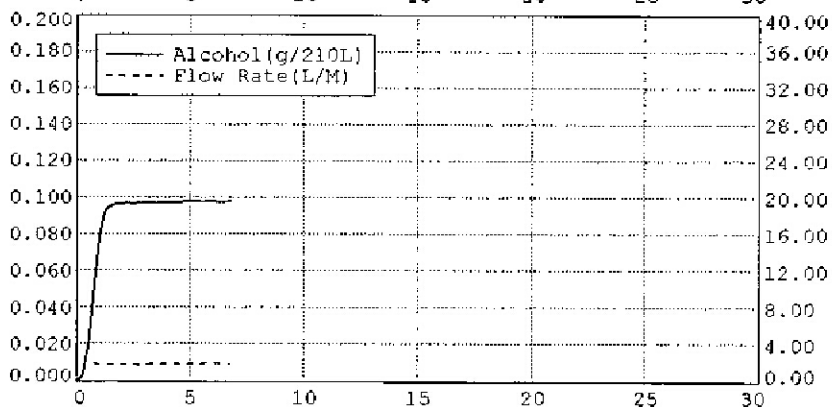
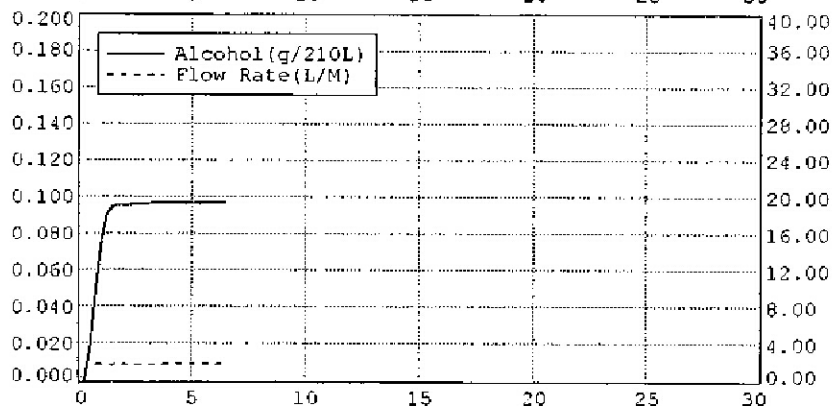
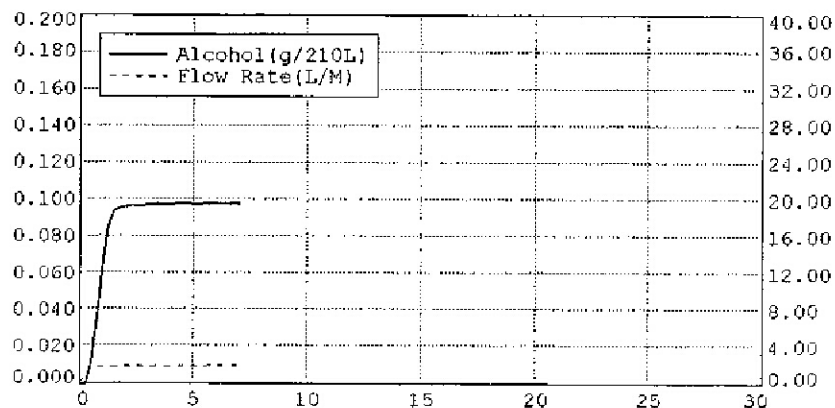
Date: 12/10/2013
Time: 09:39:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.82: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:40
INTERNAL STANDARD	VERIFIED	09:40
EXTERNAL STANDARD	0.098	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.097	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.098	09:43
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.098	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.098	09:45
BLANK TEST	0.000	09:46

Average = 0.0983
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

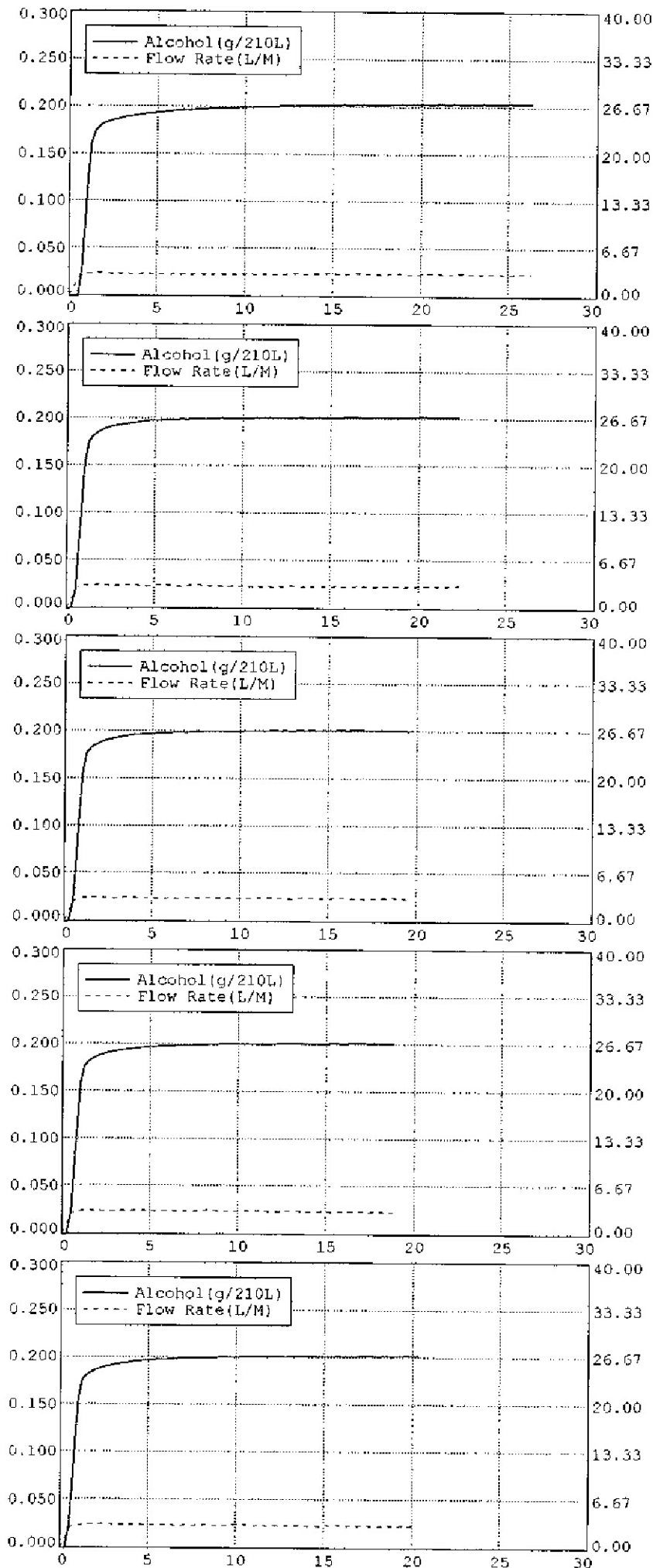
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 12/10/2013
Time: 09:47:23

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 12120
EXPIRATION: 08/10/2014

BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
EXTERNAL STANDARD	0.204	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.202	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.201	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.201	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.202	09:54
BLANK TEST	0.000	09:55

Average = 0.2023
Std Dev = 0.0010



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100361

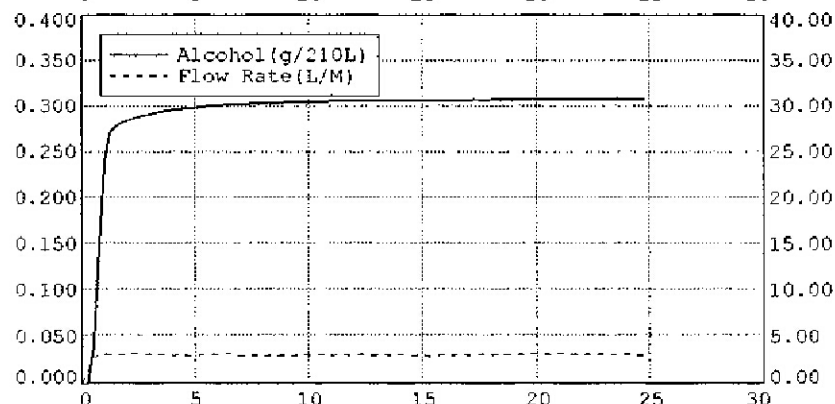
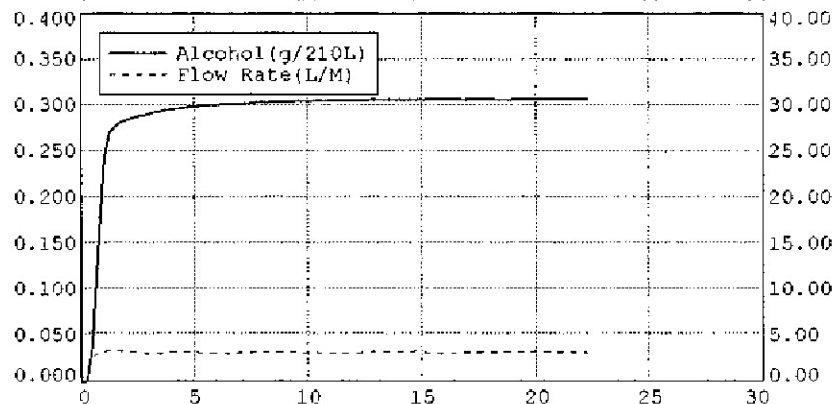
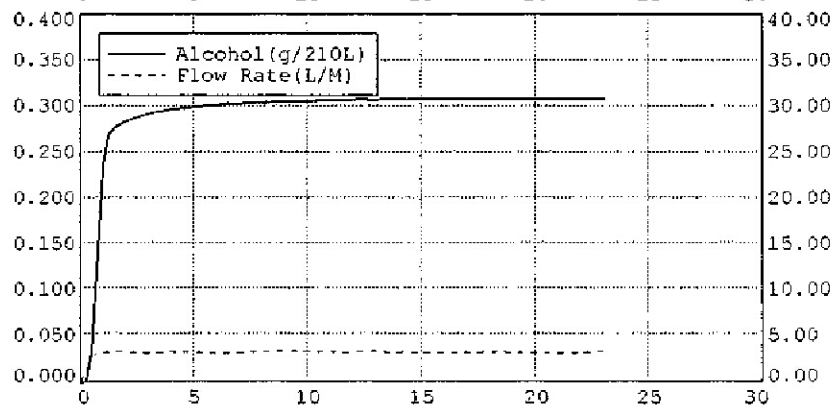
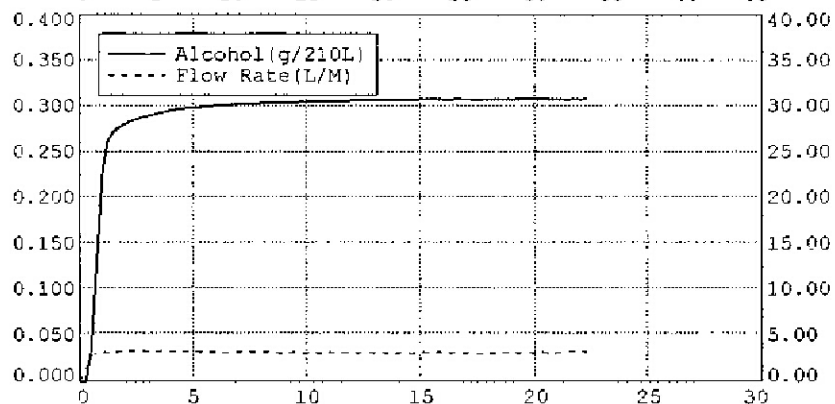
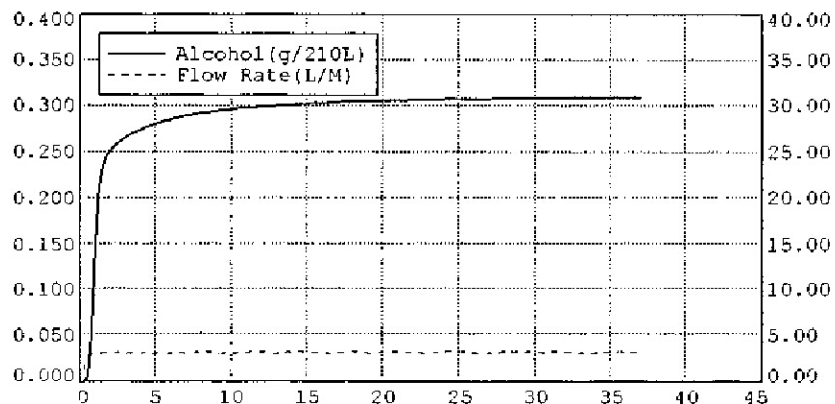
Date: 12/10/2013
Time: 09:58:07

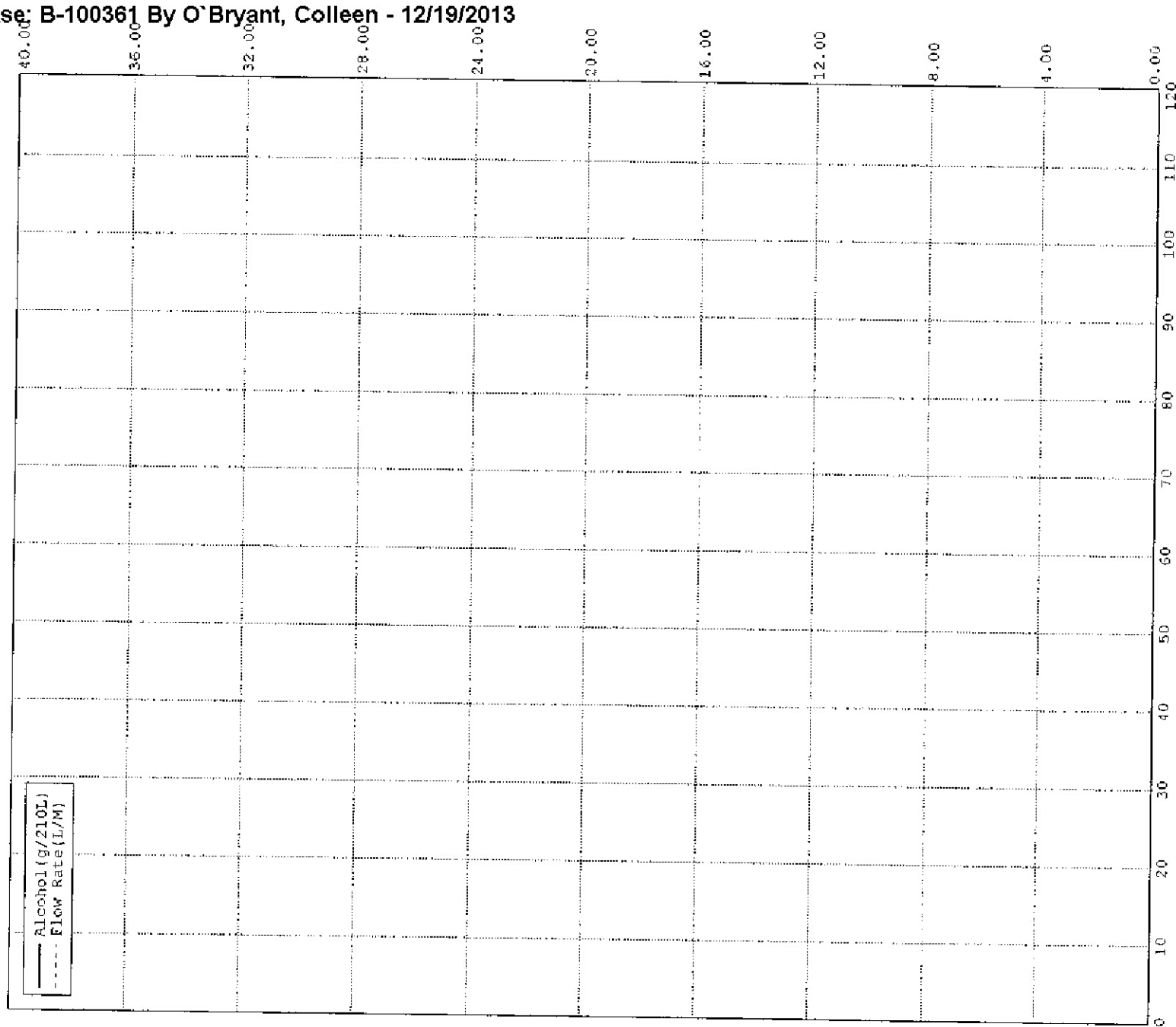
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.309	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.308	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.308	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.307	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.308	10:05
BLANK TEST	0.000	10:06

Average = 0.3086
Std Dev = 0.0008





SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER cmt: 100361

Date: 12/10/2013
Time: 10:43:04

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

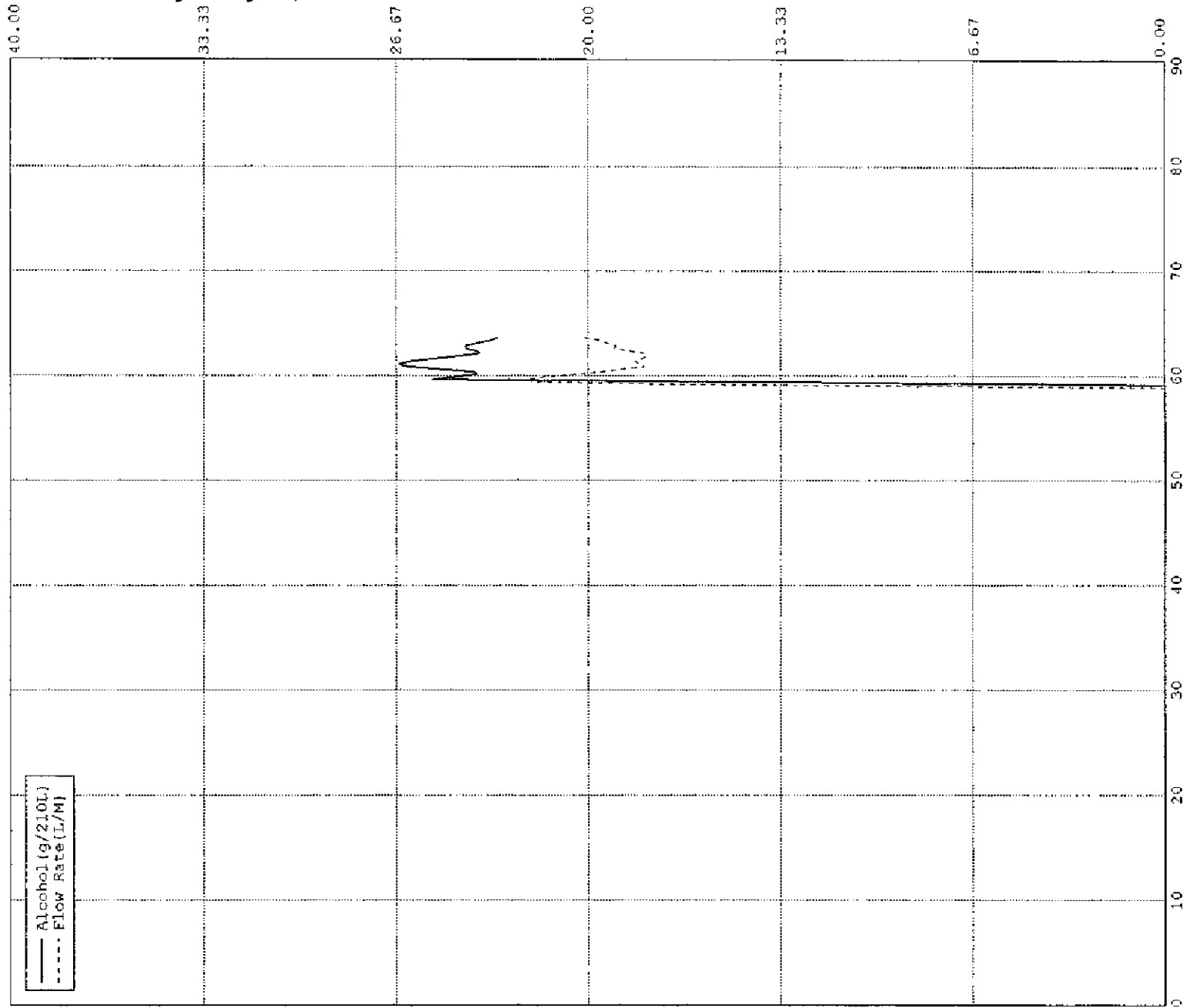
DEPT/AGENCY:
AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:44
BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.080	10:44
BLANK TEST	0.000	10:45
SUBJECT SAMPLE	INCOMPLETE	10:47



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER cmt: 100361

Date: 12/19/2013

Time: 13:04:39

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.51: 0.078

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

PASSED 13:05

BLANK TEST 0.000 13:05

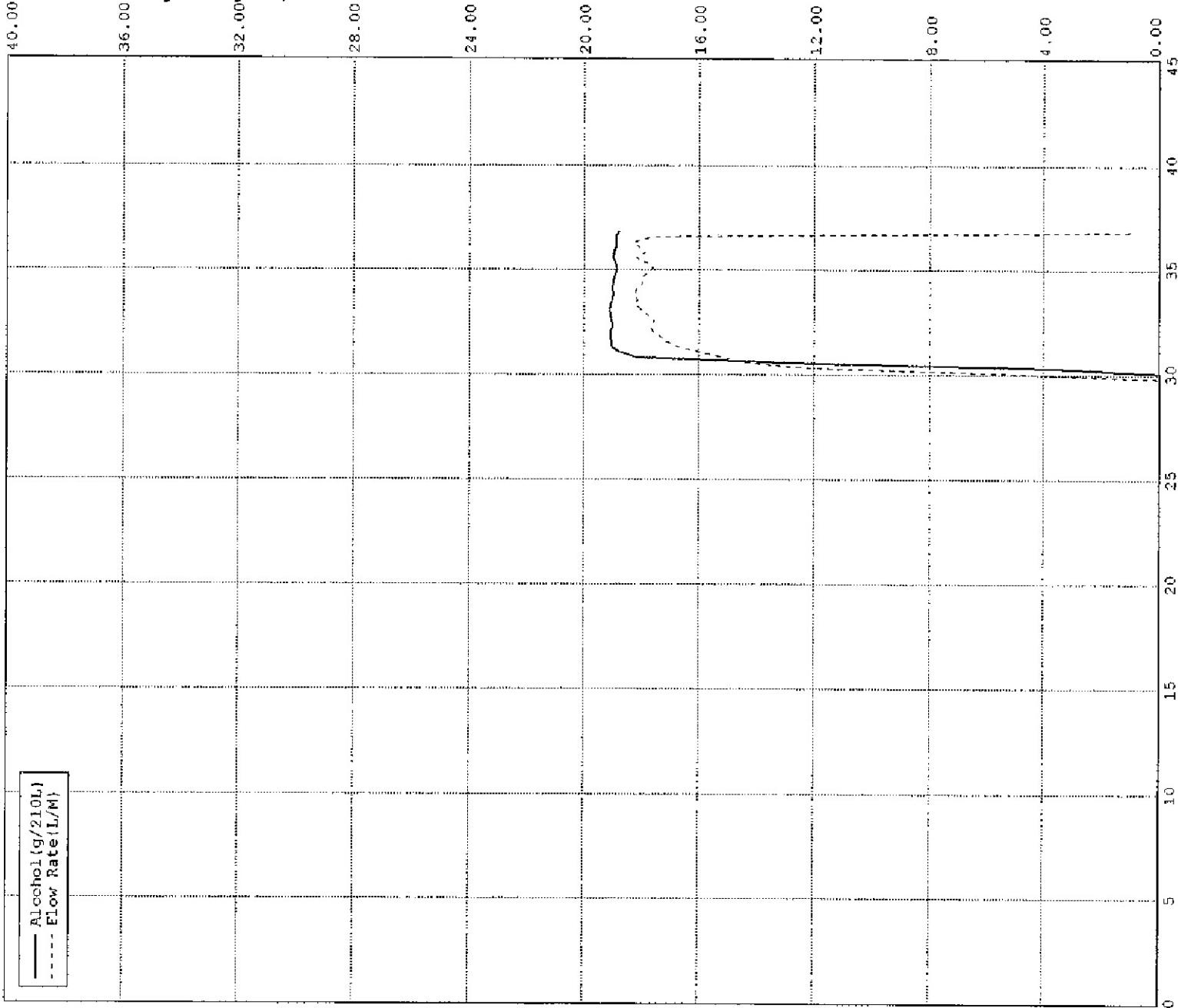
INTERNAL STANDARD VERIFIED 13:05

EXTERNAL STANDARD 0.078 13:06

BLANK TEST 0.000 13:07

SUBJECT SAMPLE INVALID 13:08

Handwritten signature/initials



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 12/19/2013
 Time: 13:35:04

SUBJECT NAME:

TEST TEST

LICENSE #: INT-NEG CONT

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

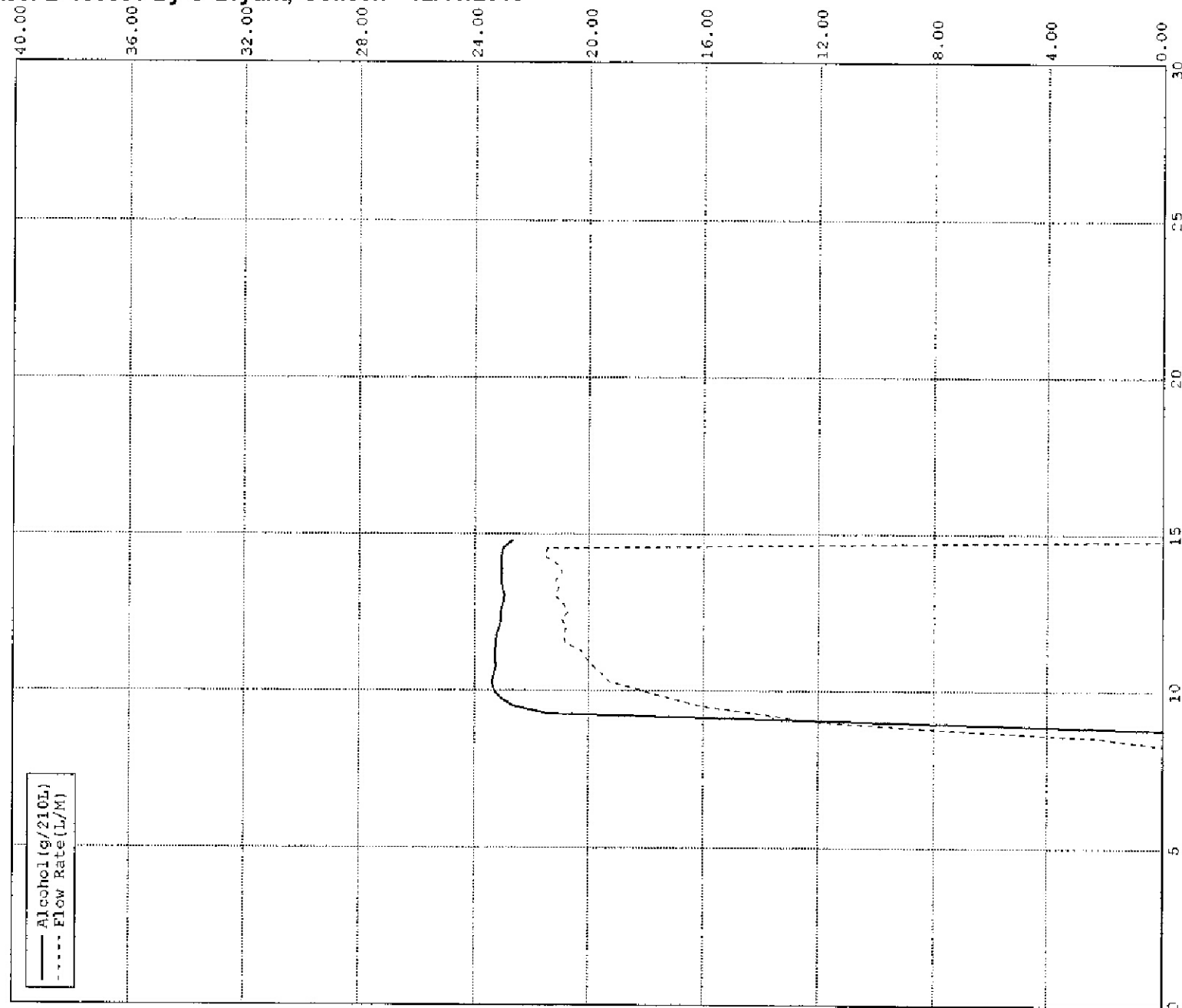
NOMINAL: 0.080

TARGET AT 29.50: 0.078

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
Xg = 0.074 (1.39%)		
EXTERNAL STANDARD	0.079	13:36
X[l] = 0.0794 (-0.0008)	(0.0026)	
BLANK TEST	0.000	13:37
SUBJECT SAMPLE (Vol=1.90L)	0.094	13:38
X[l] = 0.0949 (-0.0009)	(0.0005)	
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.078	13:39
X[l] = 0.0786 (-0.0015)	(0.0013)	
BLANK TEST	0.000	13:40



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER Gmt: 100361

Date: 12/19/2013
 Time: 13:44:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

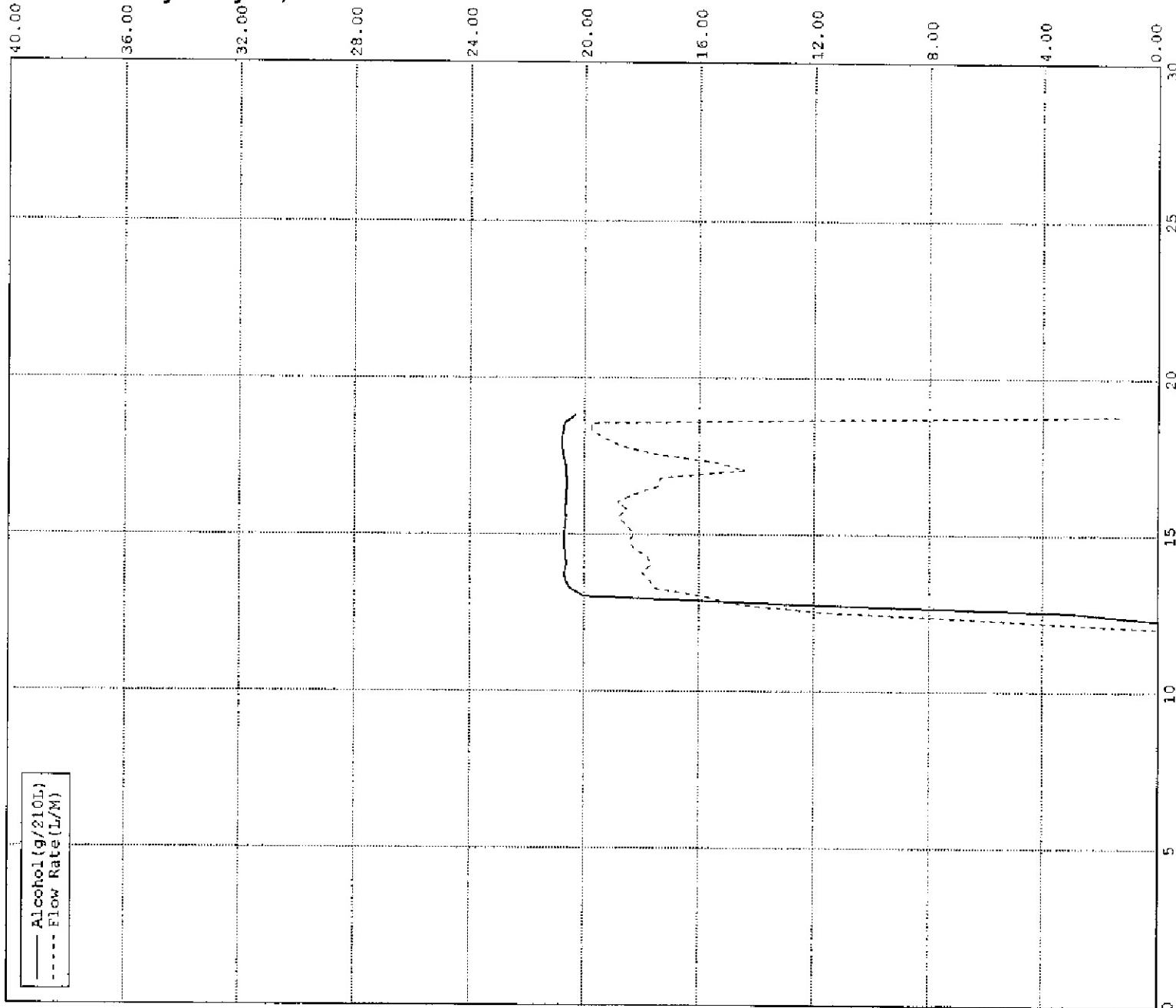
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAI
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 13:45
 BLANK TEST 0.000 13:45
 INTERNAL STANDARD VERIFIED 13:45
 $X_g = 0.075$ (0.35%)
 EXTERNAL STANDARD 0.079 13:45
 $X[1] = 0.0799$ (-0.0006) (0.0022)
 BLANK TEST 0.000 13:46
 SUBJECT SAMPLE INTERFERENCE 13:47
 $X[1] = 0.1143$ (-0.0246) (0.0018)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 12/19/2013
 Time: 13:49:32

SUBJECT NAME:

TEST TEST

LICENSE #: INT-ACETONE

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.50: 0.078

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST	PASSED	13:50
INTERNAL STANDARD	0.000	13:51

VERIFIED 13:51

 $X_q = 0.074$ (0.81%)

EXTERNAL STANDARD 0.079 13:51

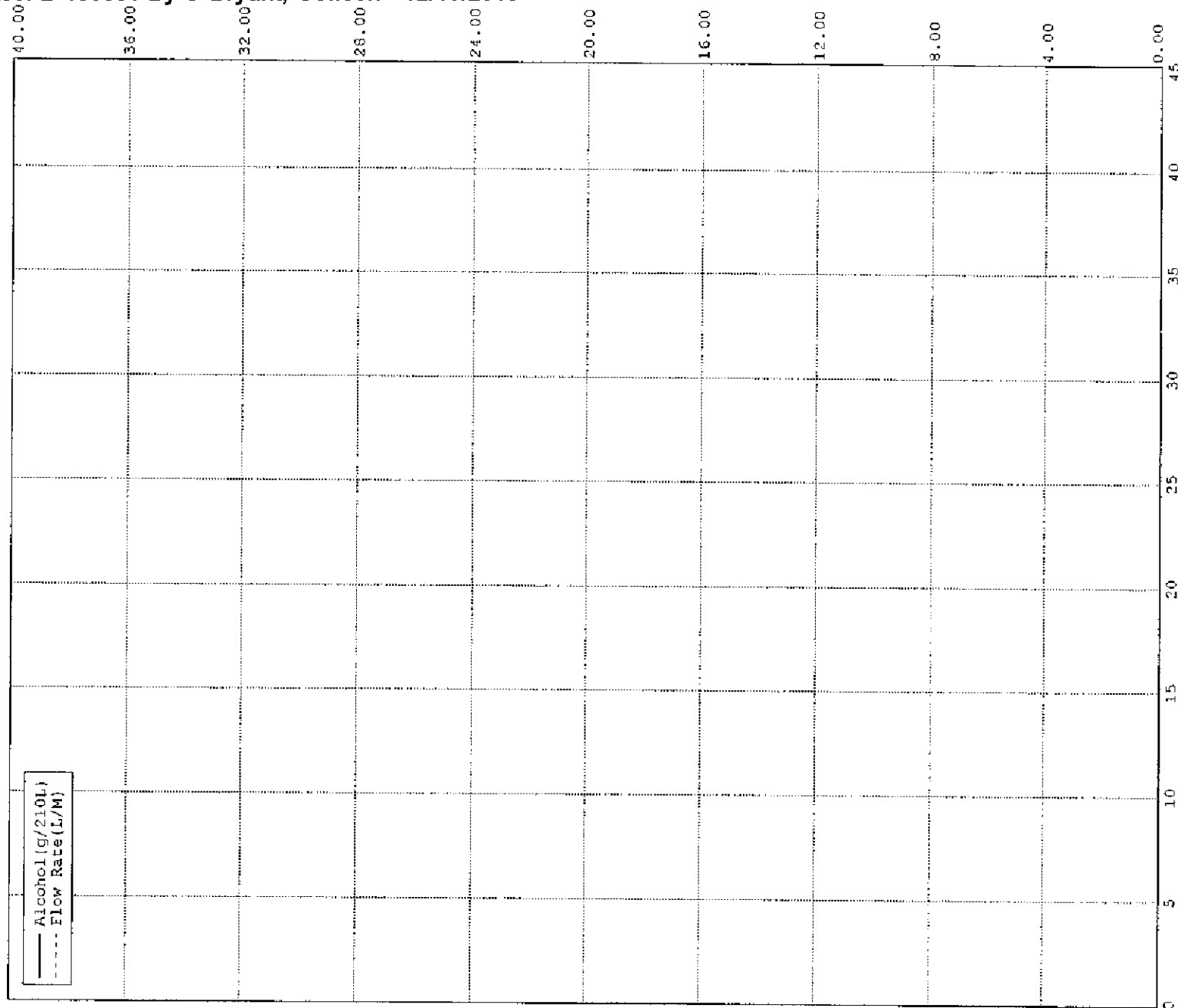
 $X[1] = 0.0794$ (0.0002) (0.0026)

BLANK TEST

SUBJECT SAMPLE INTERFERENCE 13:52

 $X[1] = 0.1027$ (-0.0197) (-0.0003)

OB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 12/19/2013
 Time: 13:55:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

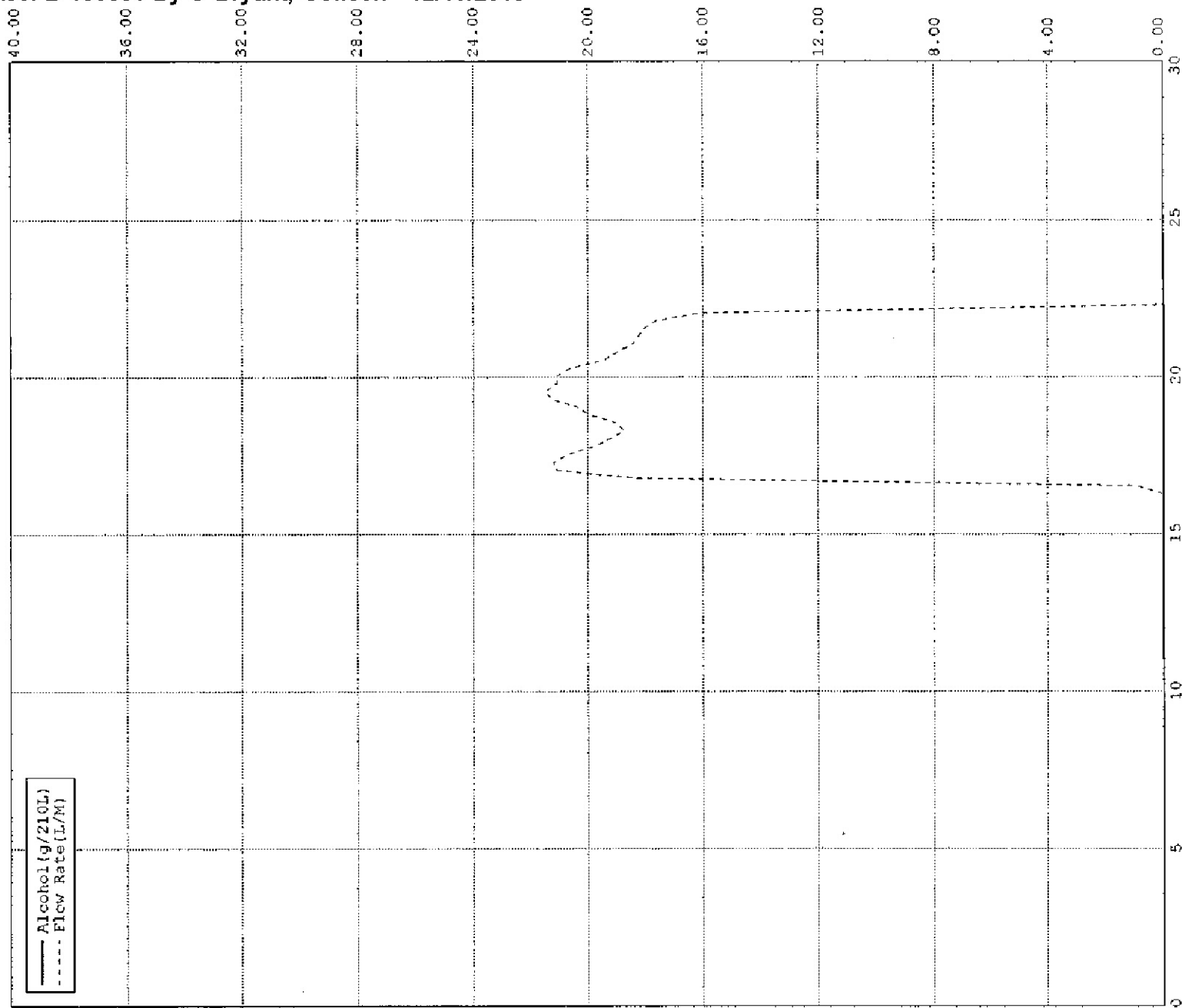
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
 BLANK TEST PASSED 13:56
 INTERNAL STANDARD VERIFIED 13:56
 EXTERNAL STANDARD 0.079 13:56
 BLANK TEST 0.000 13:57

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100361

Date: 12/19/2013
 Time: 14:11:11

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.48: 0.078

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

TEST TYPE	RESULT	TIME
BLANK TEST	0.000	14:12
INTERNAL STANDARD	0.079	14:12
EXTERNAL STANDARD	0.079	14:13
BLANK TEST	0.000	14:14
SUBJECT SAMPLE	0.000	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.079	14:15
BLANK TEST	0.000	14:16

OB

Final page for report

\

\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100361\B-100361 ECF-20140

3/13/2014