

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100420 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 1500 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒

i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15

iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

1. Simulator S/N SD1088 Date Calibrated 1/23/13

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15

1. Simulator S/N SD1198 Date Calibrated 1/23/13

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

Neg. Ctrl.
i. ~~Acetone~~ - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1199 Date Calibrated 1/23/13

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1177 Date Calibrated 1/23/13

Acetone
iii. ~~Negative Control~~ - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N DR4161 Date Calibrated 1/24/13

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 12/19/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 12/09/2013
Time: 14:49:23

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.150 L/M	PASSED
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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

DATAMASTER dmt: 100420

Date: 12/09/2013

Time: 2:58 PM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.4°C

Current Barometer 30.0 in

Volume (Ltr) 1.49

Settings

Lamp: 1.92 V

Bias: 80 V

Cooler: 1.68 V

Chopper: 546 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.030 V

CALIBRATION FACTORS

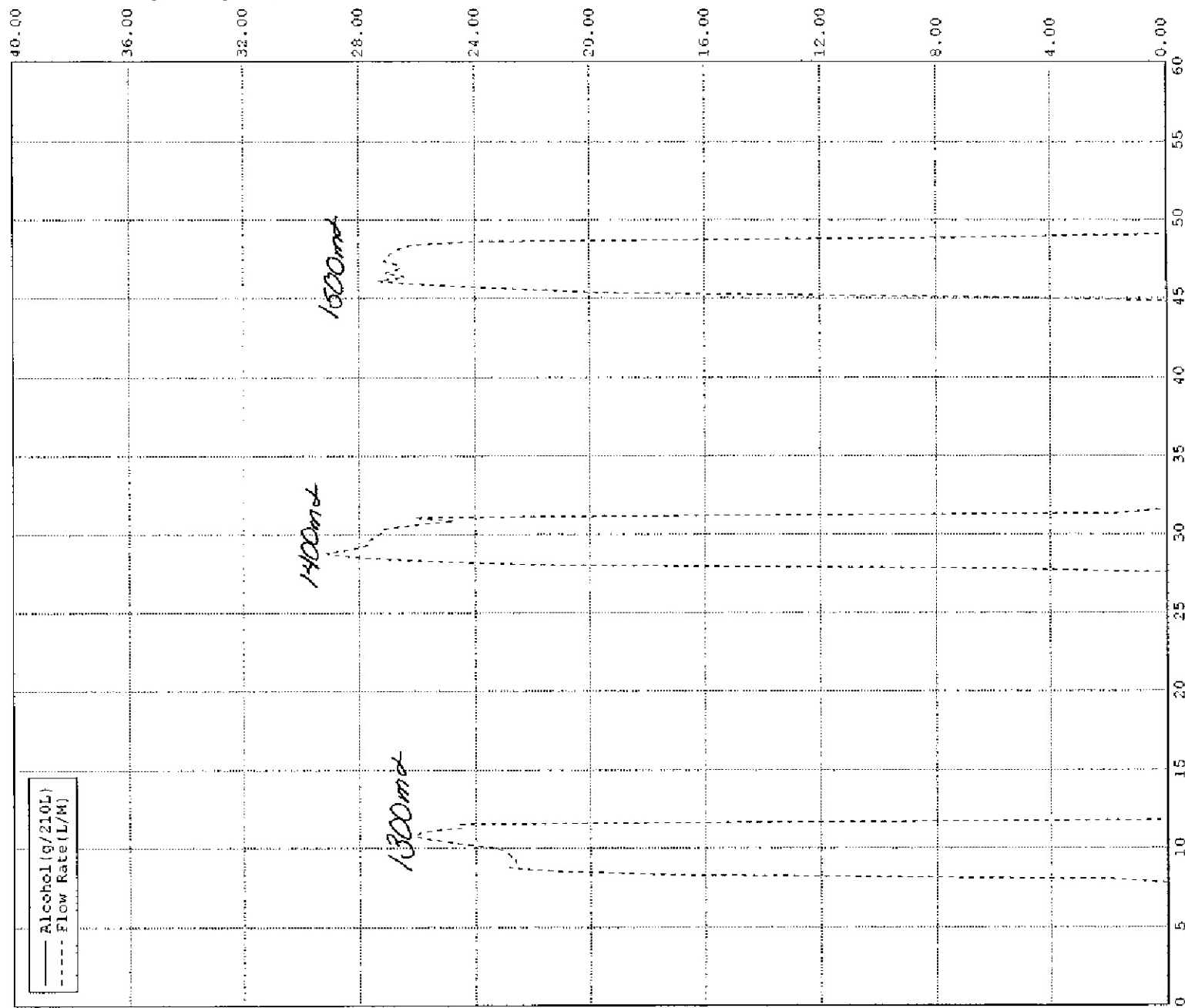
Alaska Department of Public Safety
DATAMASTER dnt: 100420

Date: 05/18/2011
Time: 13:54:20

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.987303 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0034 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0794 0.0500 <= Xq < 0.2000
a21 = 1.113495 1.050 <= a21 < 1.300
a31 = 0.362455 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100420

Date: 12/10/2013
 Time: 08:00:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

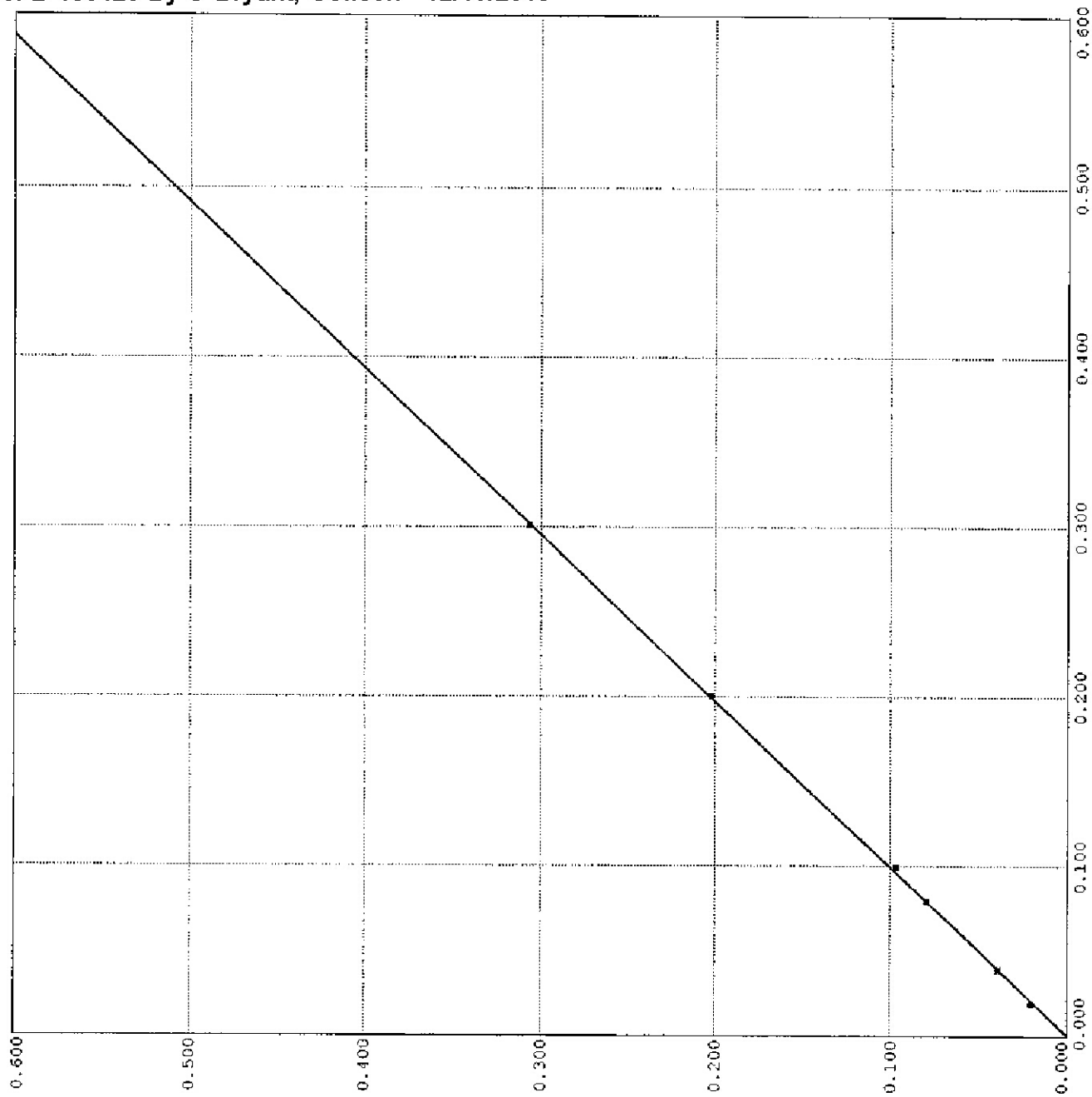
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.85: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:01
BLANK TEST	0.000	08:01
INTERNAL STANDARD	VERIFIED	08:01
EXTERNAL STANDARD	0.080	08:01
BLANK TEST	0.000	08:02
SUBJECT SAMPLE	0.000	08:03
BLANK TEST	0.000	08:04
EXTERNAL STANDARD	0.080	08:04
BLANK TEST	0.000	08:05



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 12/10/2013
 Time: 08:09:17

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0003
0.039	0.0399	0.0001
0.079	0.0805	0.0001
0.099	0.0977	0.0002
0.200	0.2030	0.0007
0.300	0.3073	0.0008

SLOPE = 1.021196
 R^2 = 0.999737

CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100420

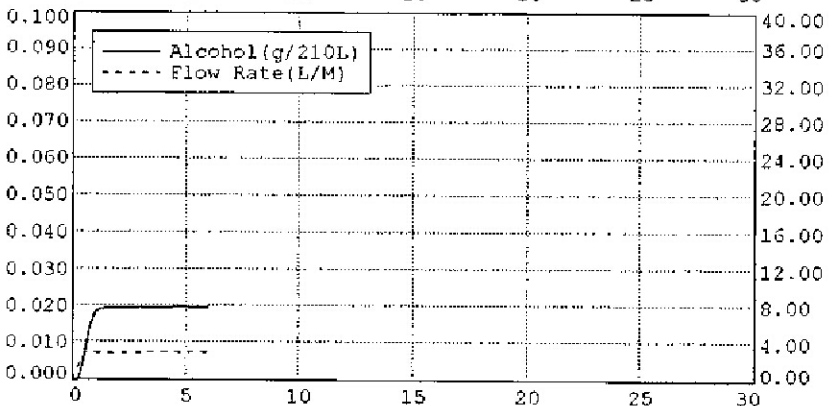
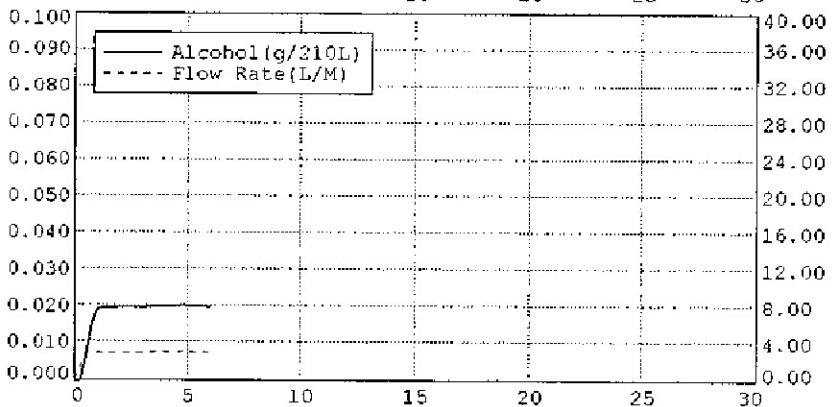
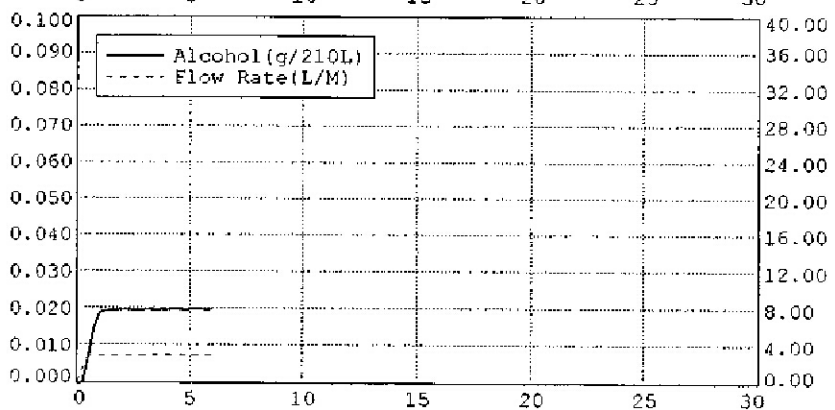
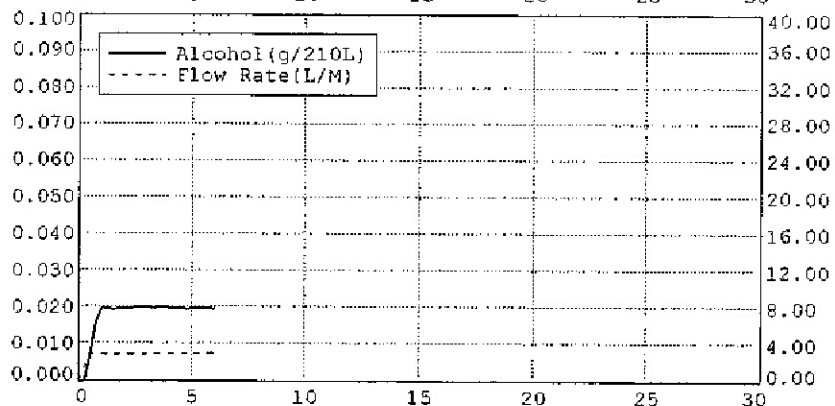
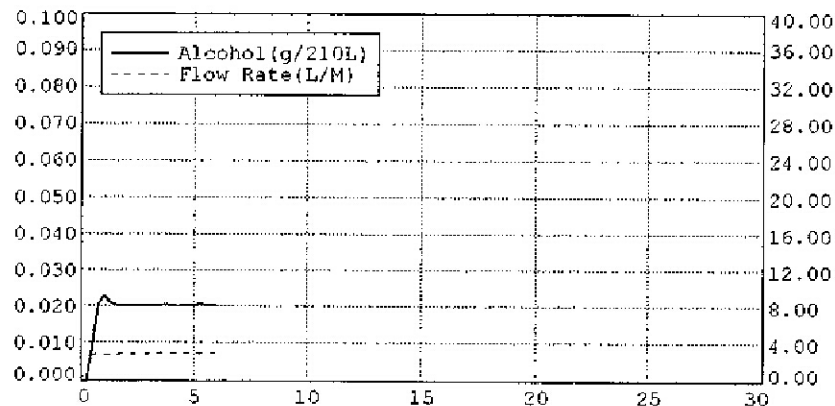
Date: 12/10/2013
Time: 08:09:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.84: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:10
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.021	08:10
BLANK TEST	0.000	08:11
EXTERNAL STANDARD	0.020	08:12
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.020	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.020	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.020	08:15
BLANK TEST	0.000	08:16

Average = 0.0210
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dnt: 100420

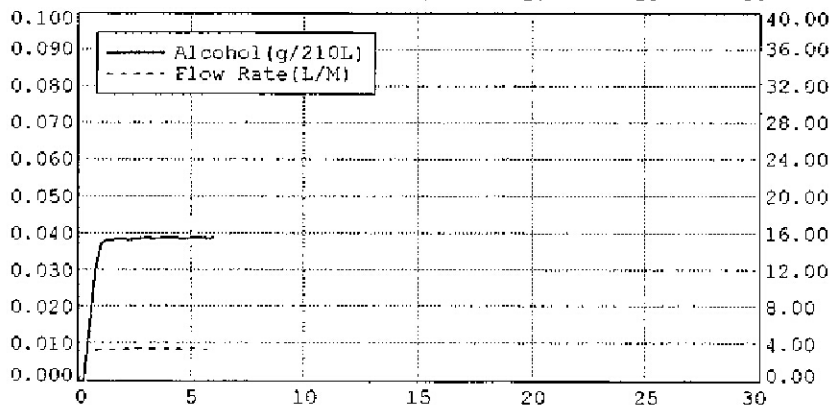
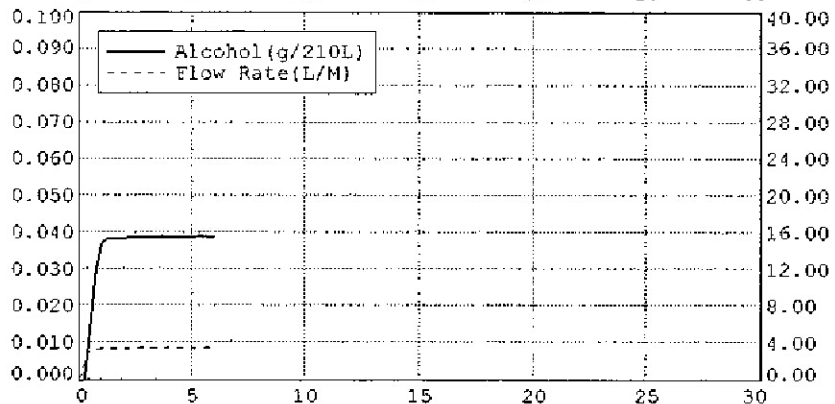
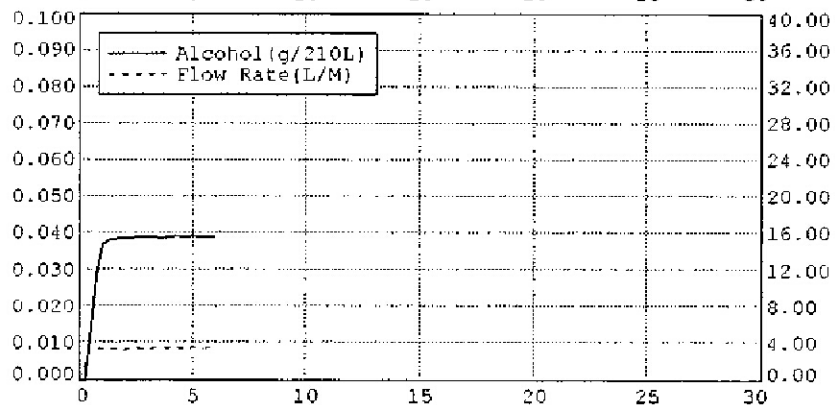
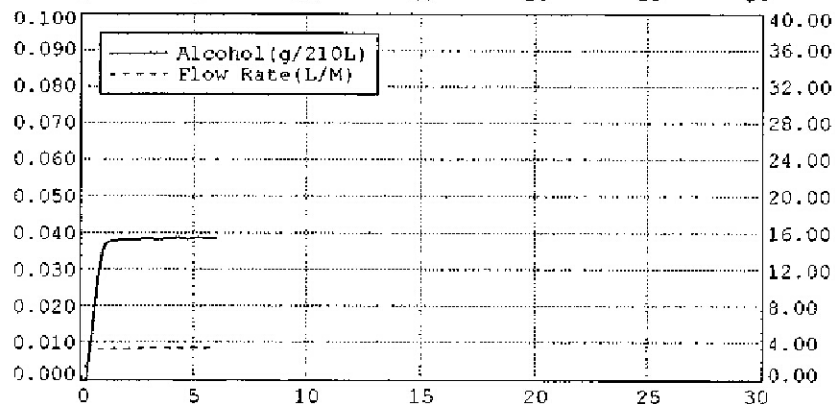
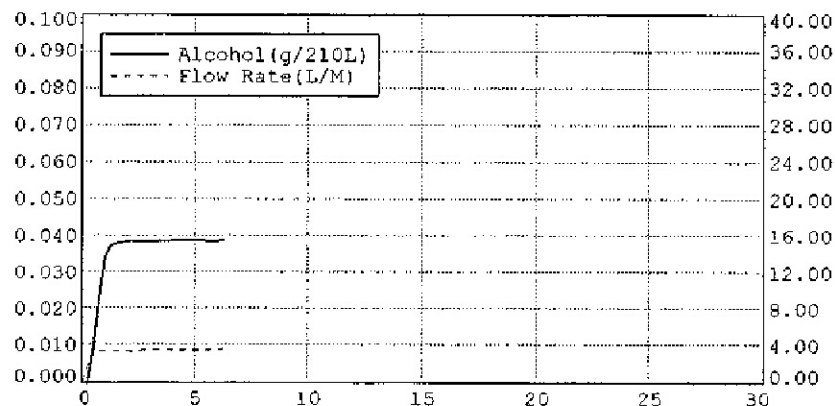
Date: 12/10/2013
Time: 08:18:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.84: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:19
EXTERNAL STANDARD	0.039	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.039	08:21
BLANK TEST	0.000	08:21
EXTERNAL STANDARD	0.040	08:22
BLANK TEST	0.000	08:23
EXTERNAL STANDARD	0.039	08:23
BLANK TEST	0.000	08:24
EXTERNAL STANDARD	0.039	08:24
BLANK TEST	0.000	08:25

Average = 0.0399
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100420

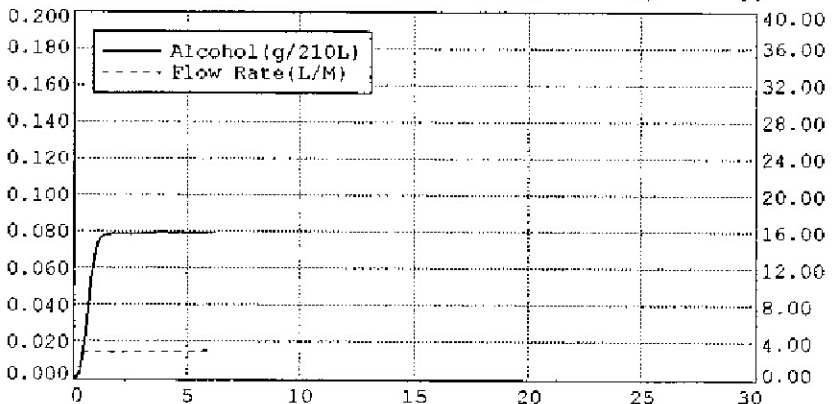
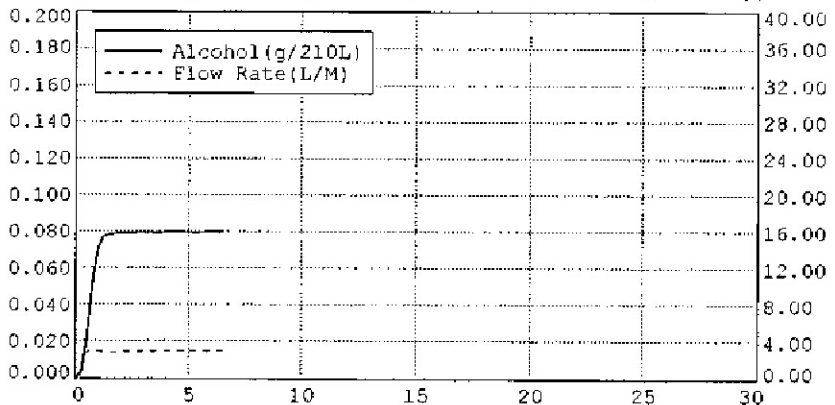
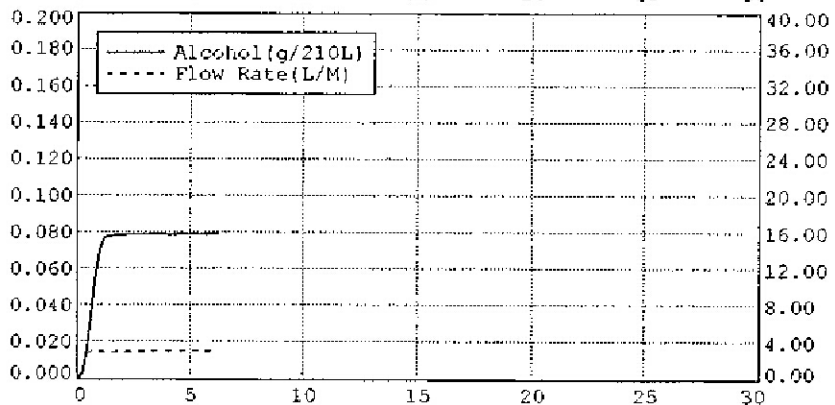
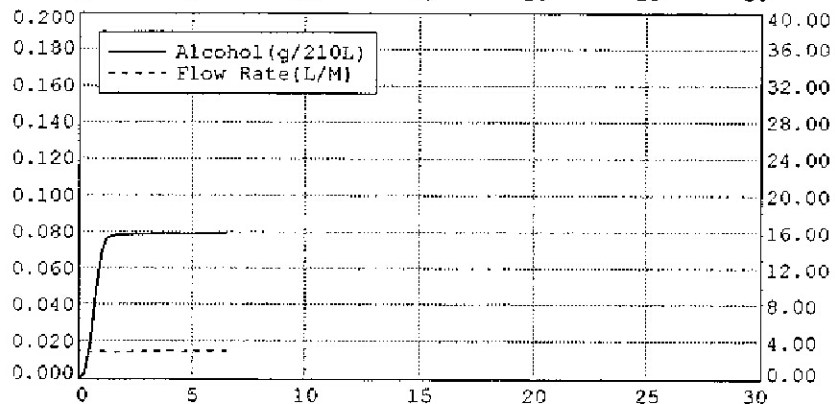
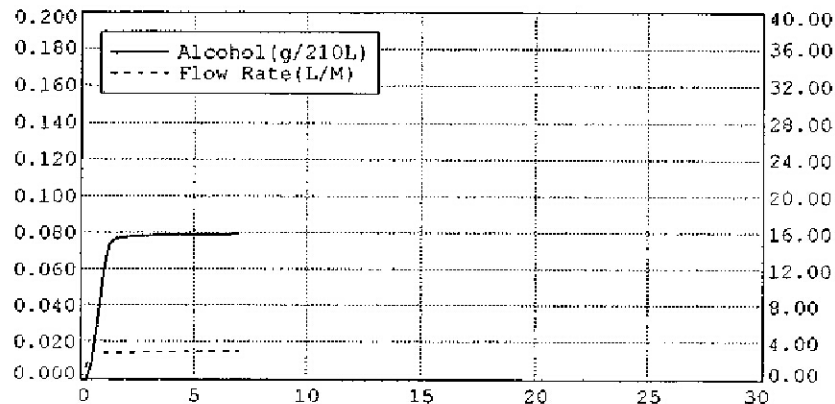
Date: 12/10/2013
Time: 08:26:47

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	08:30
INTERNAL STANDARD	VERIFIED	08:30
EXTERNAL STANDARD	0.080	08:31
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.080	08:32
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.080	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.080	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.080	08:35
BLANK TEST	0.000	08:36

Average = 0.0805
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100420

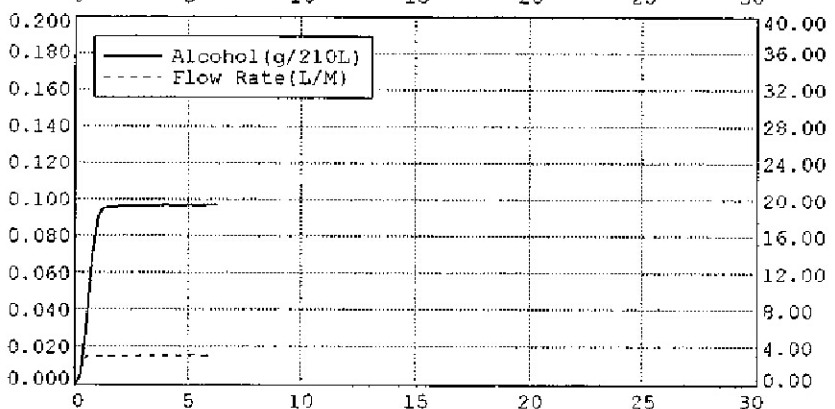
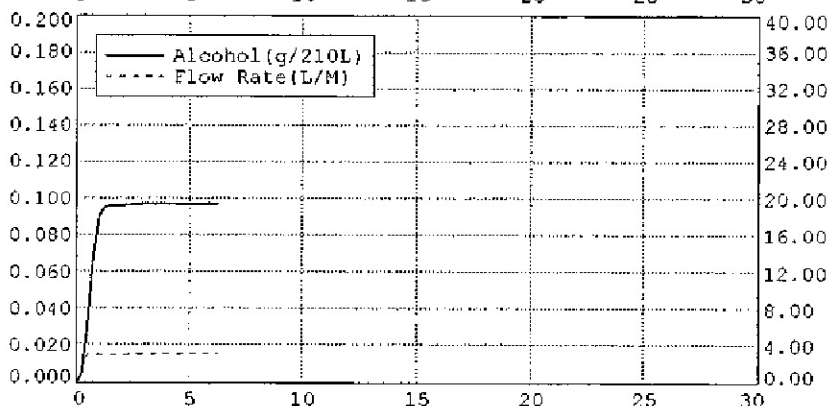
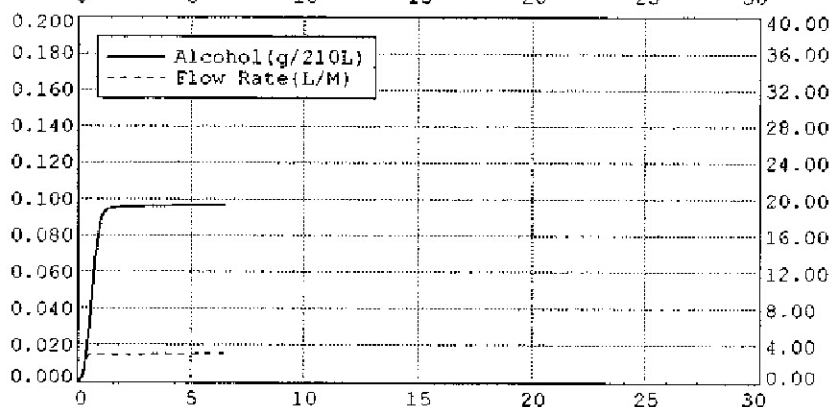
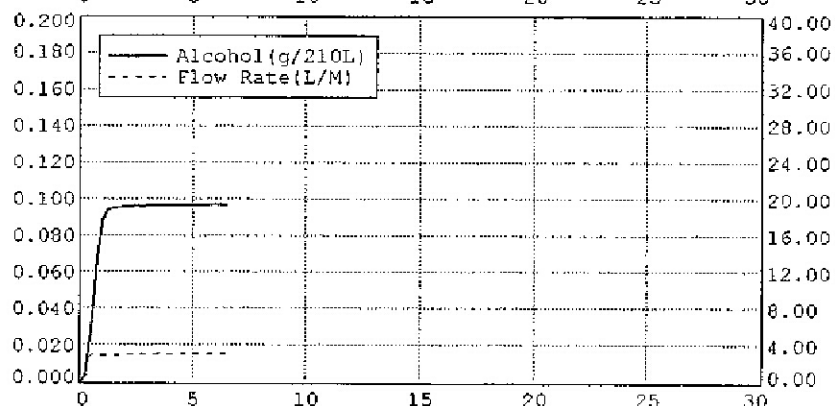
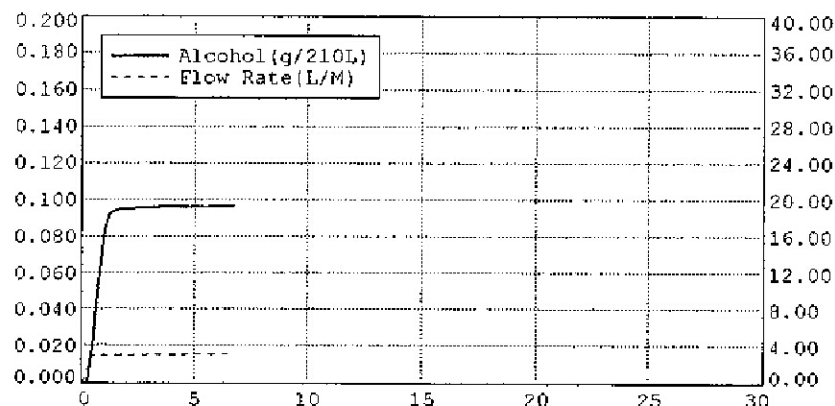
Date: 12/10/2013
Time: 08:37:48

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	08:38
INTERNAL STANDARD	VERIFIED	08:39
EXTERNAL STANDARD	0.097	08:39
BLANK TEST	0.000	08:40
EXTERNAL STANDARD	0.097	08:40
BLANK TEST	0.000	08:41
EXTERNAL STANDARD	0.097	08:41
BLANK TEST	0.000	08:42
EXTERNAL STANDARD	0.098	08:42
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.097	08:43
BLANK TEST	0.000	08:44

Average = 0.0977
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100420

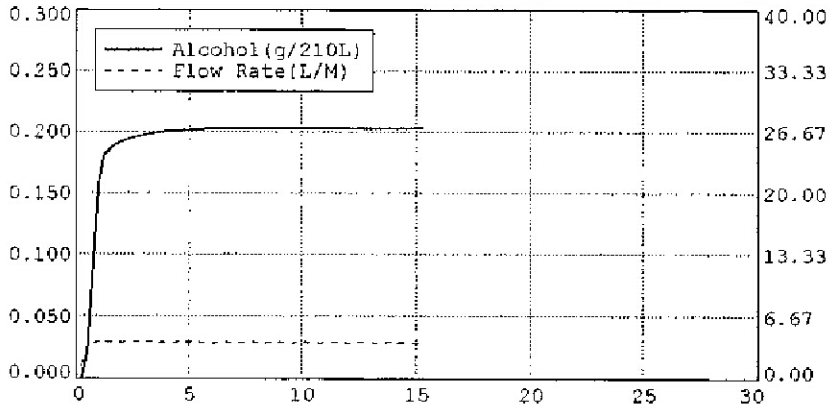
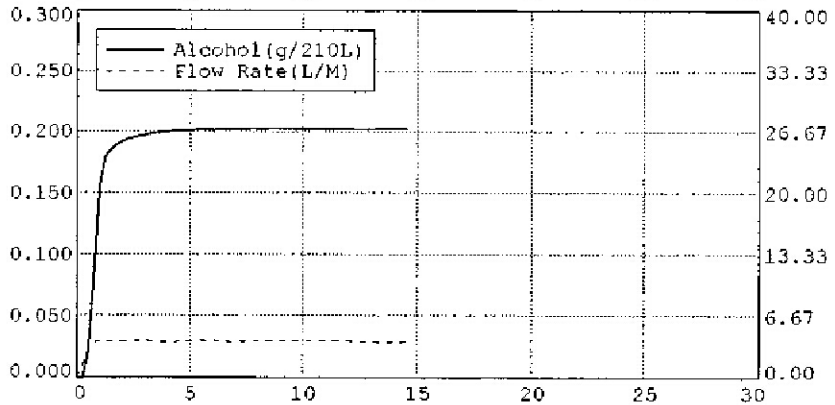
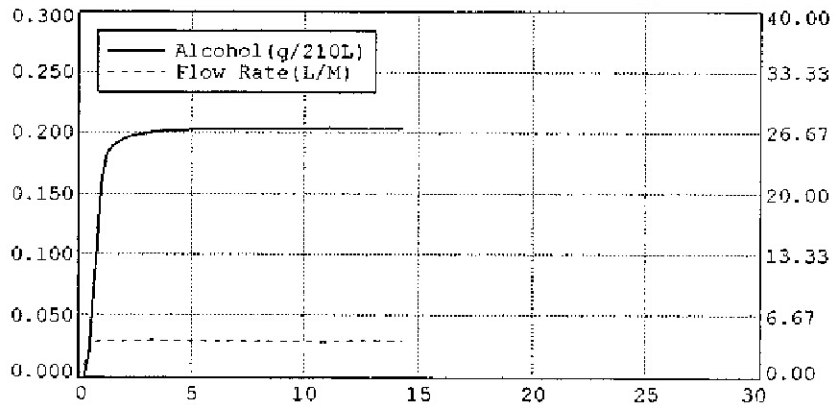
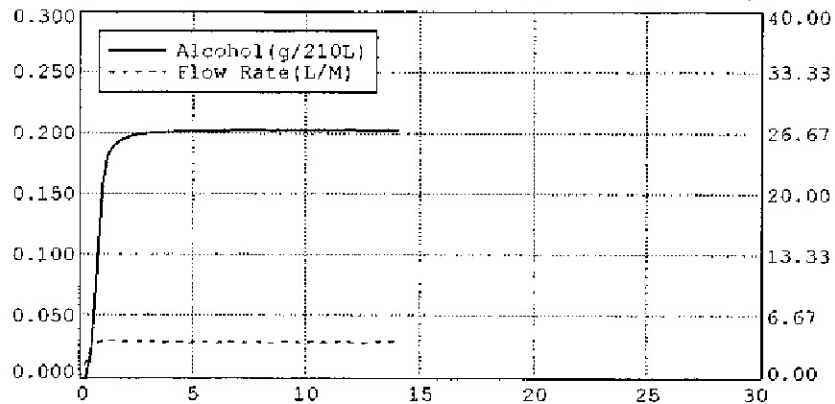
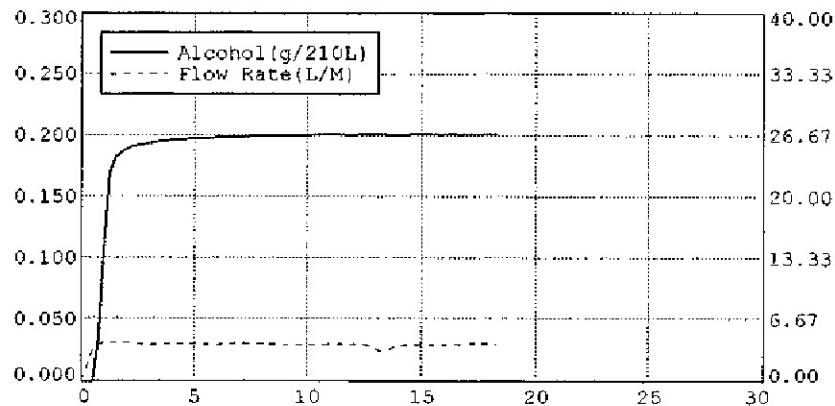
Date: 12/10/2013
Time: 08:59:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 12120
EXPIRATION: 08/10/2014

BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.201	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.203	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.203	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.202	09:05
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.203	09:06
BLANK TEST	0.000	09:07

Average = 0.2030
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100420

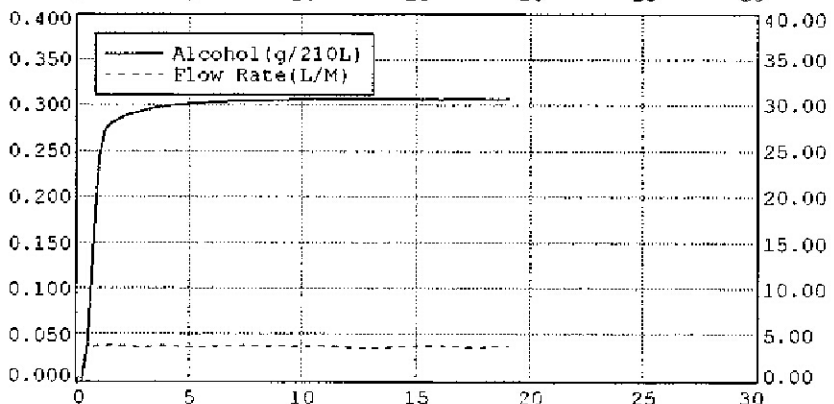
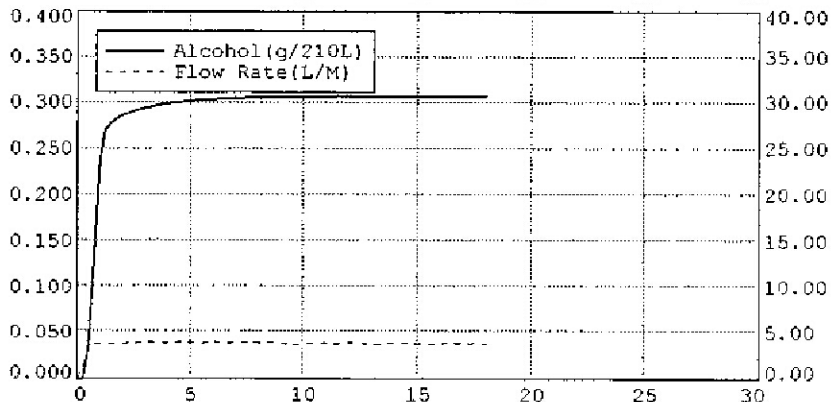
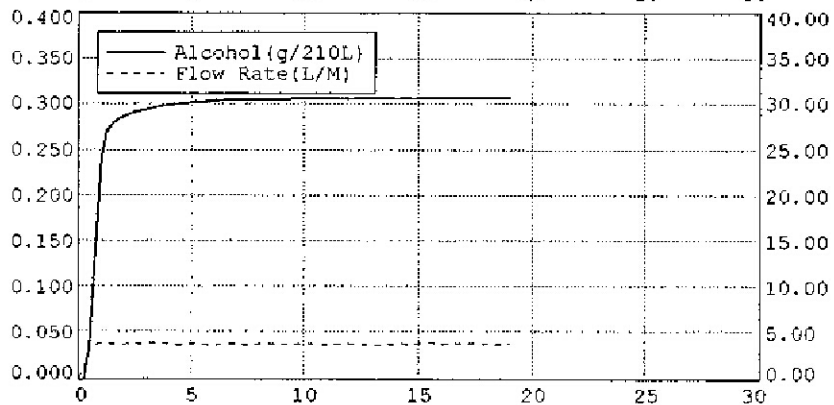
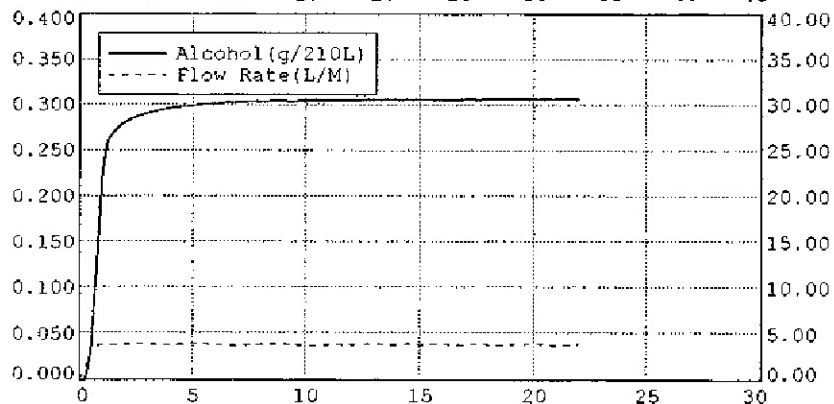
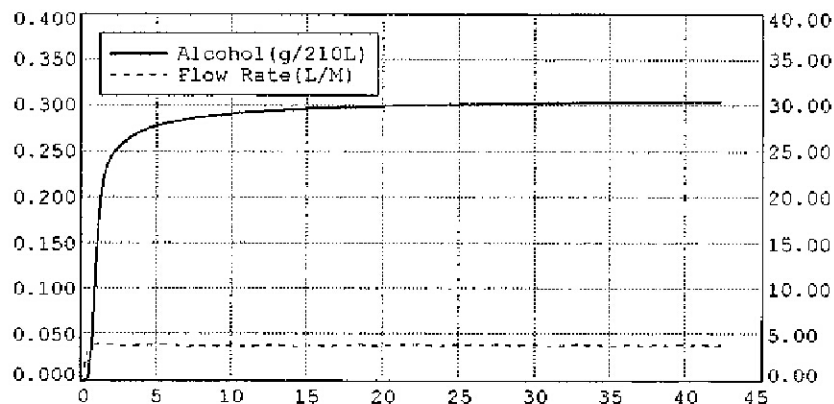
Date: 12/10/2013
Time: 09:09:02

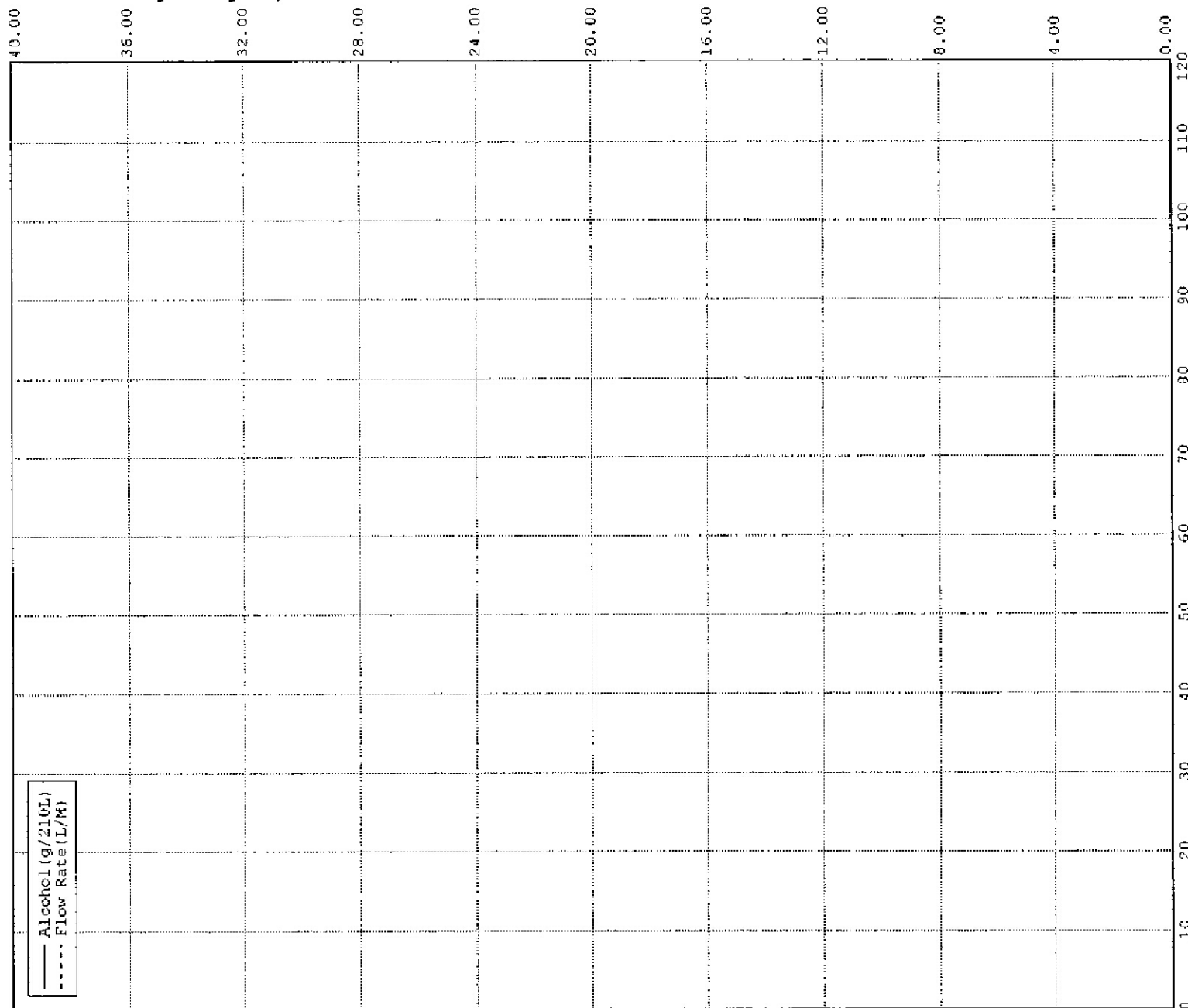
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	09:10
INTERNAL STANDARD	VERIFIED	09:10
EXTERNAL STANDARD	0.306	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.307	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.307	09:14
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.307	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.307	09:16
BLANK TEST	0.000	09:17

Average = 0.3073
Std Dev = 0.0008





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100420

Date: 12/10/2013
Time: 09:21:52

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

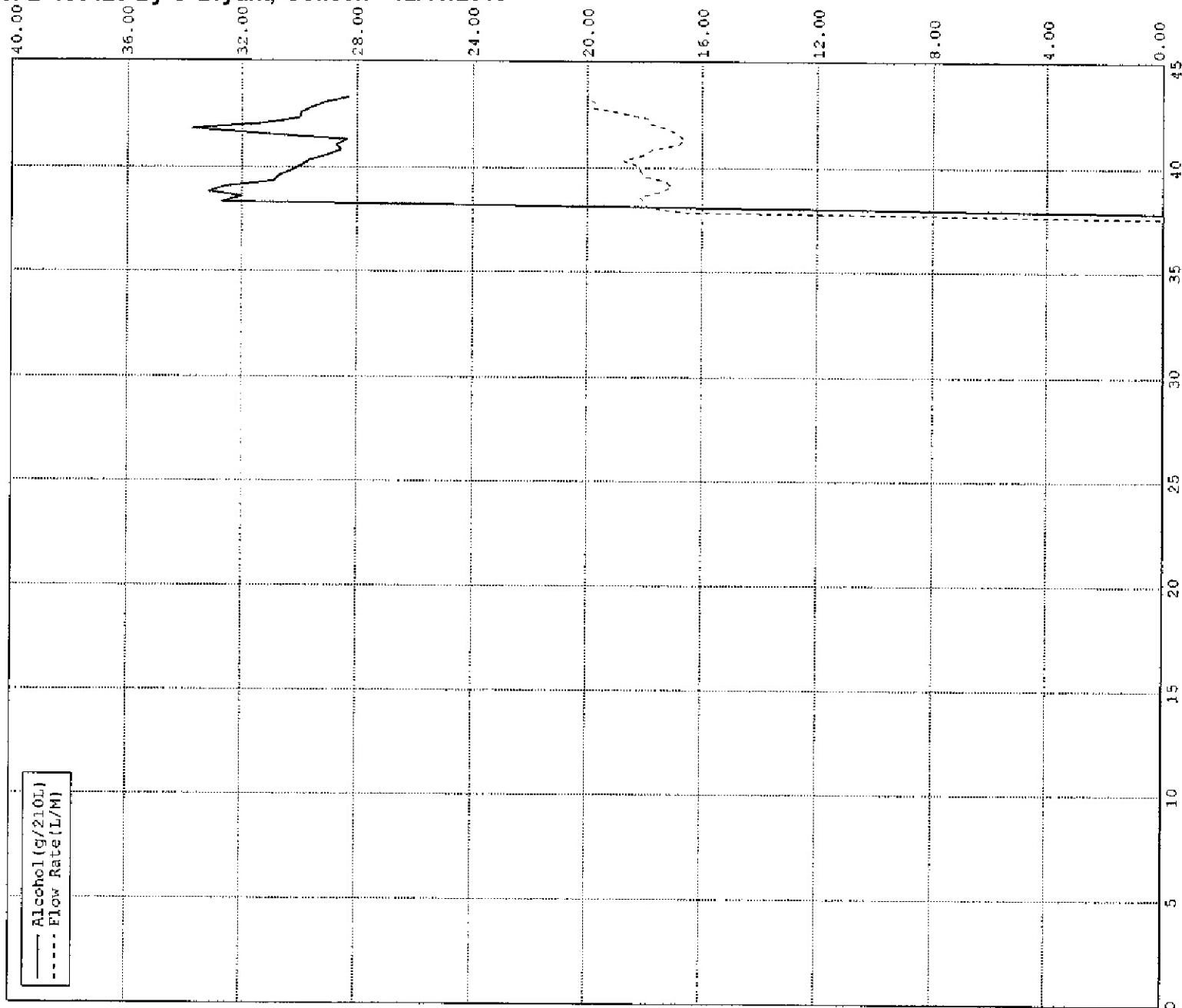
DEPT/AGENCY:
AAA1

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	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.080	10:23
BLANK TEST	0.000	10:24
SUBJECT SAMPLE	INCOMPLETE	10:26



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100420

Date: 12/19/2013
Time: 12:48:06

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	12:50
BLANK TEST	0.000	12:50
INTERNAL STANDARD	0.079	12:50
EXTERNAL STANDARD	0.000	12:51
BLANK TEST	INVALID	12:52



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER cmt: 100420

Date: 12/19/2013
 Time: 12:56:20

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

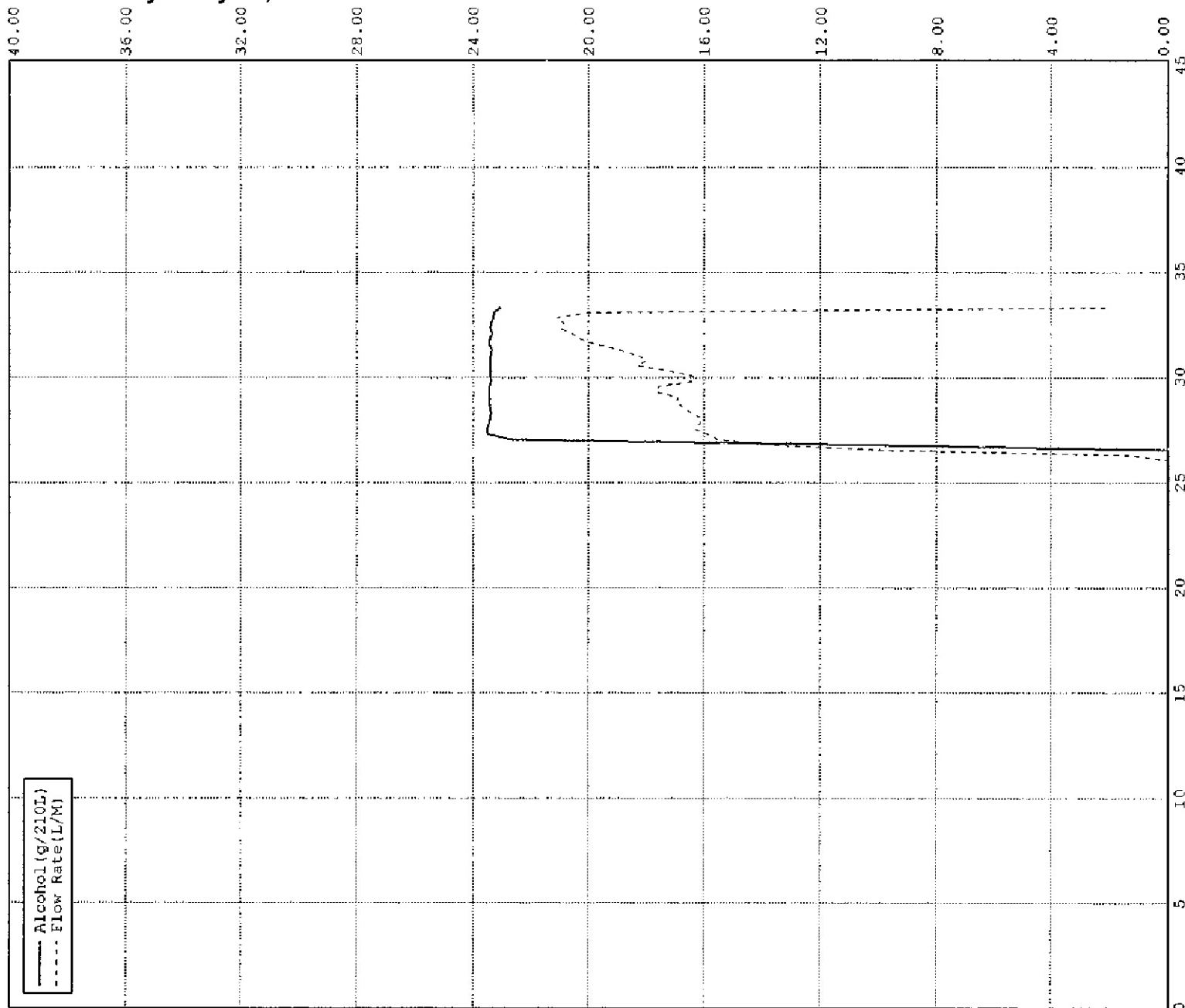
NOMINAL: 0.080

TARGET AT 29.50: 0.078

LOT #: 11313080AL

EXPIRATION: 06/01/2015

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	12:57
BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
$X_q = 0.079$ (0.33%)		
EXTERNAL STANDARD	0.078	12:57
$X[1] = 0.0788$ (-0.0016)	(0.0012)	
BLANK TEST	0.000	12:58
SUBJECT SAMPLE (Vol=2.00L)	0.095	12:59
$X[1] = 0.0957$ (-0.0014)	(-0.0006)	
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
$X[1] = 0.0793$ (-0.0012)	(0.0011)	
BLANK TEST	0.000	13:01



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER cmt: 100420

Date: 12/19/2013
 Time: 13:03:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

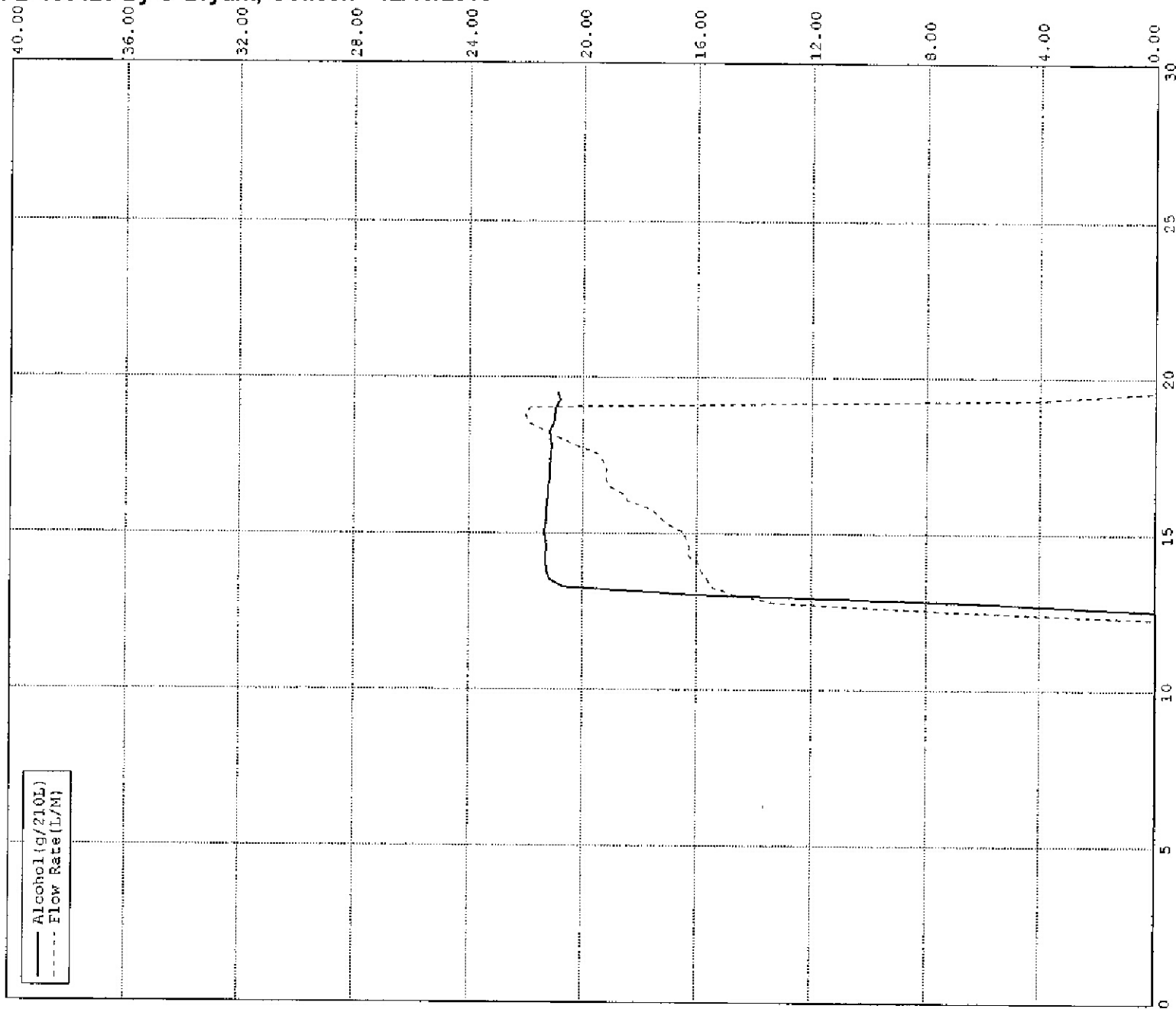
DEPT/AGENCY:

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	13:04
BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
$X_q = 0.079$ (0.11%)		
EXTERNAL STANDARD	0.078	13:04
$X[1] = 0.0789$ (-0.0018) (0.0012)		
BLANK TEST	0.000	13:05
SUBJECT SAMPLE	INTERFERENCE	13:06
$X[1] = 0.1161$ (-0.0196) (0.0013)		

**SUBJECT TEST**

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 12/19/2013
Time: 13:25:07

SUBJECT NAME:

TEST TEST

LICENSE #: INT-ACETONE

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

PASSED 13:26

BLANK TEST

0.000 13:26

INTERNAL STANDARD

VERIFIED 13:26

$X_q = 0.080$ (0.88%)

EXTERNAL STANDARD

0.078 13:26

$X[1] = 0.0787$ (-0.0043) (0.0013)

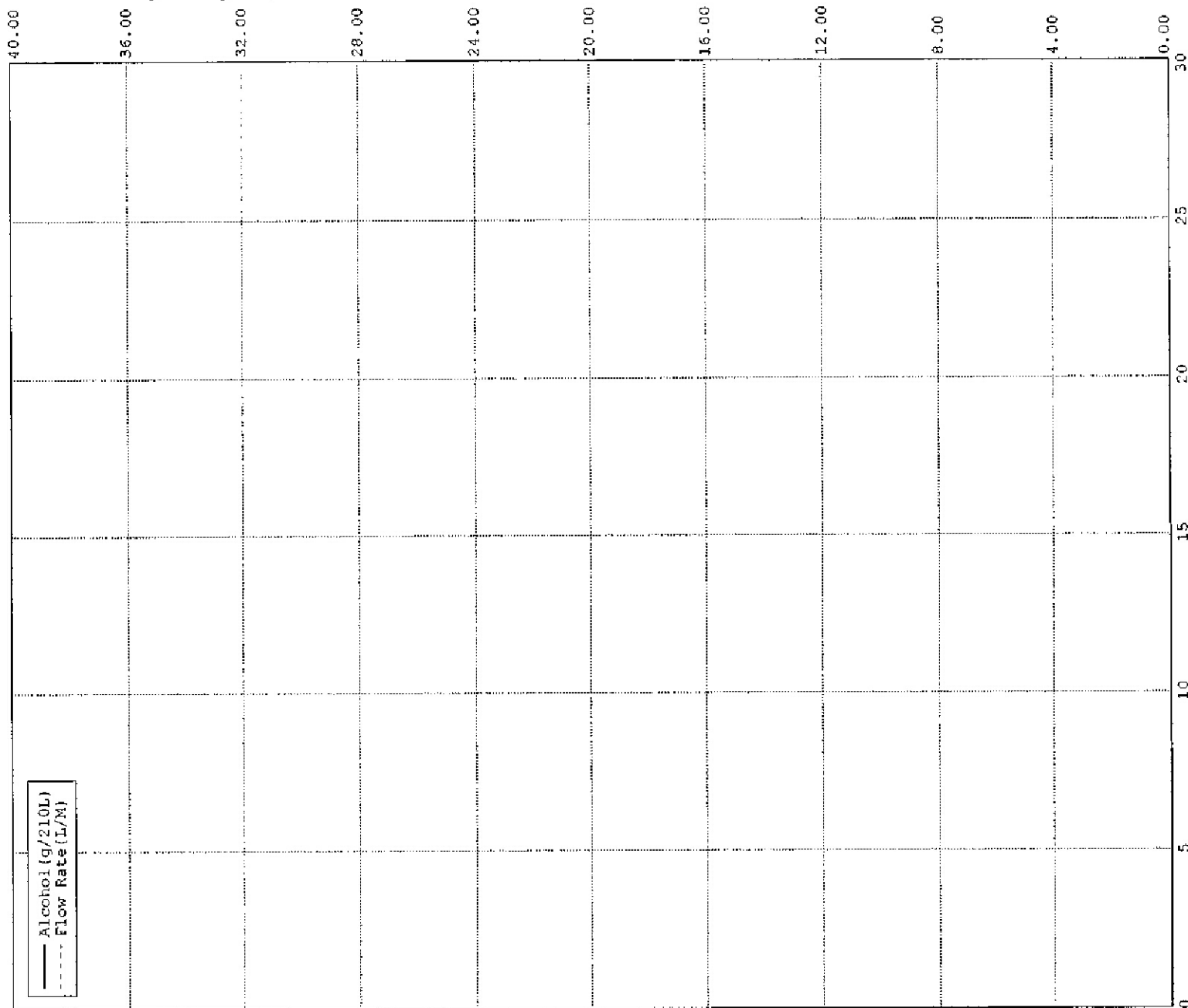
BLANK TEST

0.000 13:27

SUBJECT SAMPLE

INTERFERENCE 13:27

$X[1] = 0.1045$ (-0.0180) (-0.0006)



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dnt: 100420

Date: 12/19/2013

Time: 13:30:32

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 29.48: 0.078

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 13:40

0.000 13:40

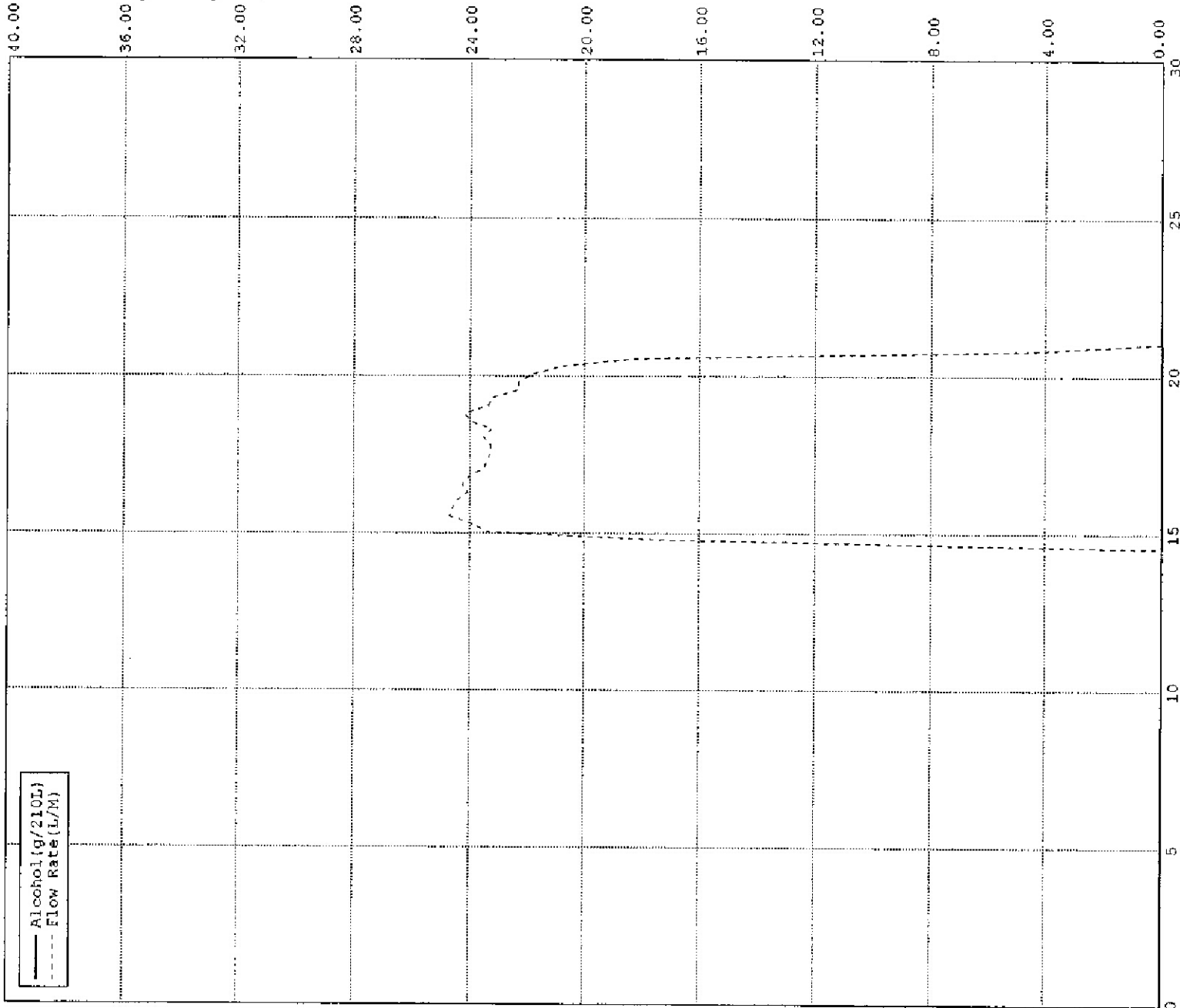
VERIFIED 13:41

0.079 13:41

0.000 13:42

RFI DETECTED

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



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 12/19/2013
 Time: 13:53:55

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

BLANK TEST	PASSED	13:54
INTERNAL STANDARD	0.000	13:55
EXTERNAL STANDARD	VERIFIED	13:55
BLANK TEST	0.079	13:55
SUBJECT SAMPLE	0.000	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58

Final page for report

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2/18/2014