

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100348 Analyst Colleen O'Bryant Start Date 4/25/2013
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 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 03/01/2015ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015iii. 0.080g/210L Mnf ILMO Lot 00813080A1 Exp 03/01/2014iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N DR4162 Date Calibrated 10/09/2012vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/21/141. Simulator S/N DR4163 Date Calibrated 10/08/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N DR5298 Date Calibrated 10/08/12ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N DR5298 Date Calibrated 10/09/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/09/12d. 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 4/26/13

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Approved by Forensic Alcohol Supervisor

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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 04/26/2013
Time: 07:42:16

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.8°C	PASSED

PUMP INFO

Flow Rate = 4.751 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: 100348

Date: 04/26/2013

Time: 7:51 AM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 46.2°C

Current Barometer 29.2 in

Volume (Ltr) 1.46

Settings

Lamp: 2.09 V

Bias: 80 V

Cooler: 1.84 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.04 V

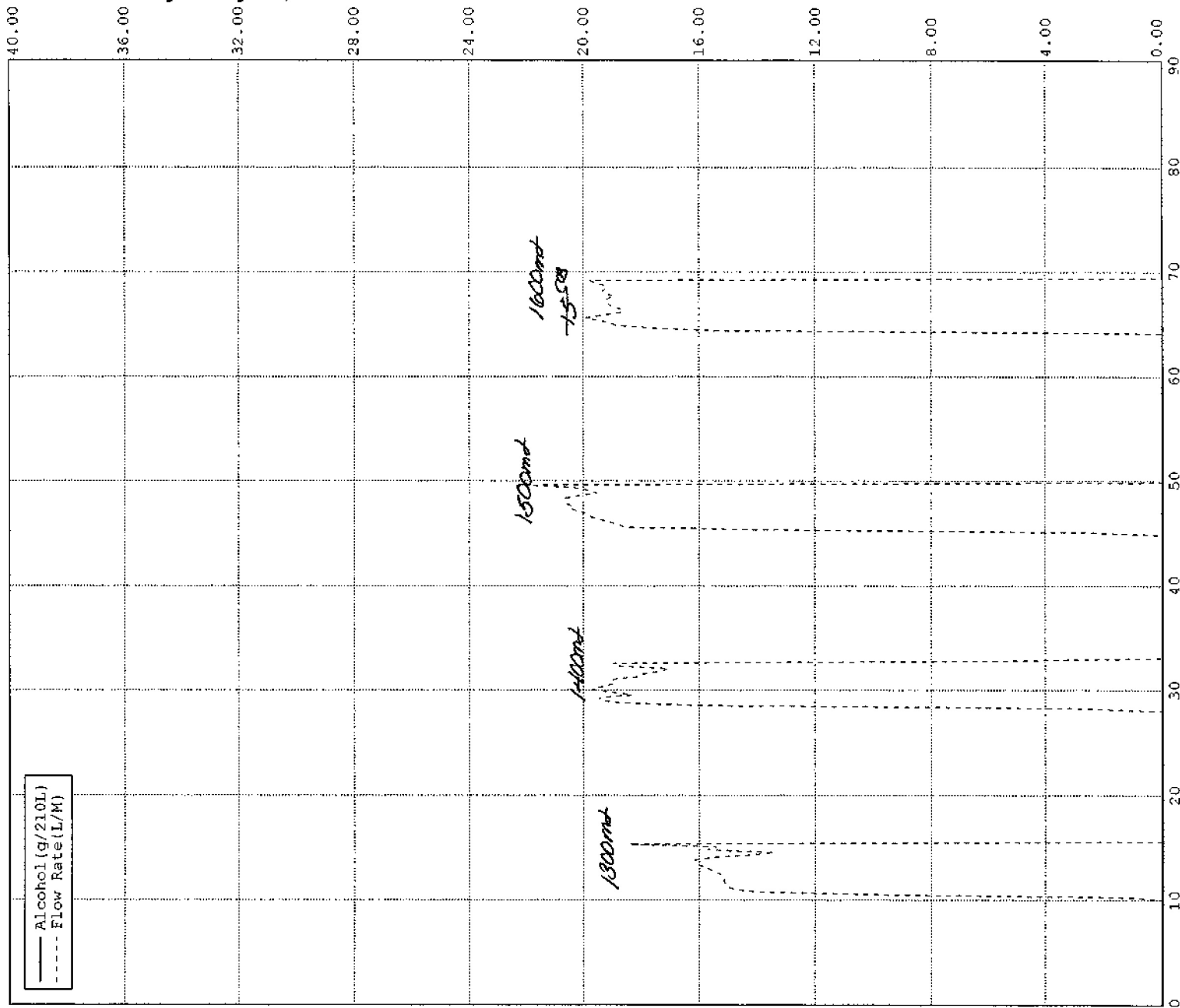
Detector: -0.032 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 01/10/2011
Time: 16:15:44

Ca = 0.1000
CAL = 0.978945 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0862 0.0500 <= Xq < 0.2000
a21 = 1.182472 1.050 <= a21 < 1.300
a31 = 0.519808 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 08:06:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.23: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	08:07
BLANK TEST	0.000	08:07
INTERNAL STANDARD	VERIFIED	08:07
EXTERNAL STANDARD	0.079	08:07
BLANK TEST	0.000	08:08
SUBJECT SAMPLE	0.000	08:10
BLANK TEST	0.000	08:10
EXTERNAL STANDARD	0.080	08:11
BLANK TEST	0.000	08:12

COB

COB 5/19

LINEARITY CHECK

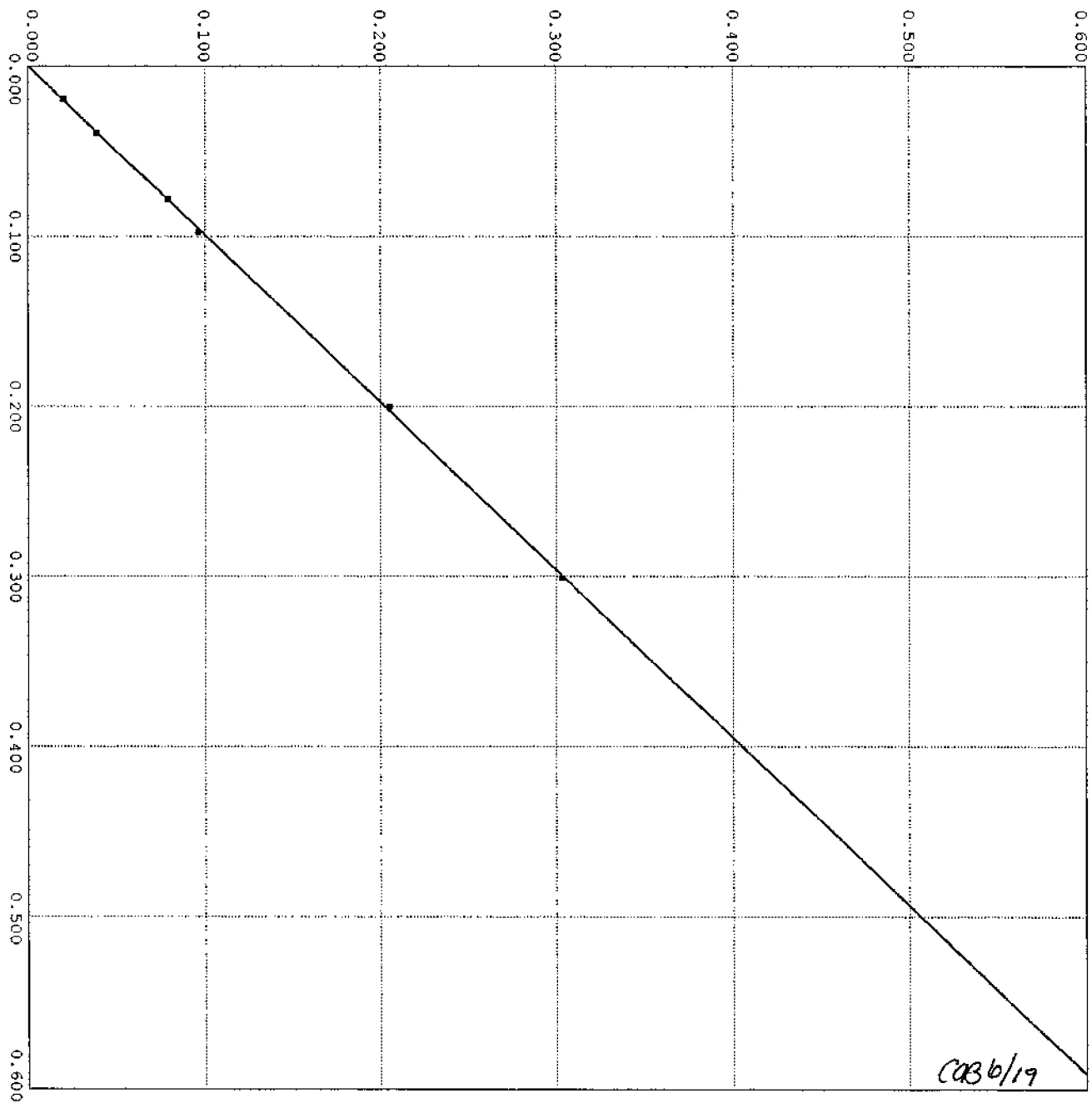
Alaska Department of Public Safety
 DATA MASTER dmt: 100348

Date: 04/26/2013
 Time: 08:19:14

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0207	0.0003
0.039	0.0398	0.0000
0.078	0.0800	0.0004
0.097	0.0971	0.0002
0.200	0.2060	0.0005
0.300	0.3041	0.0008

SLOPE = 1.015082
 R^2 = 0.999808



CAB

CAB 6/19

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100348

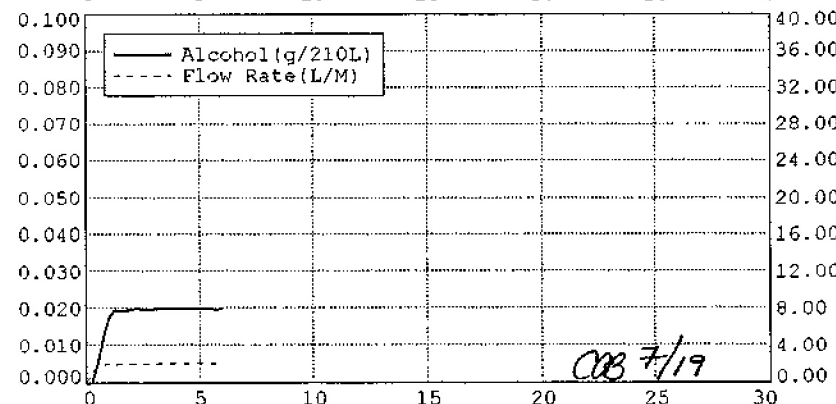
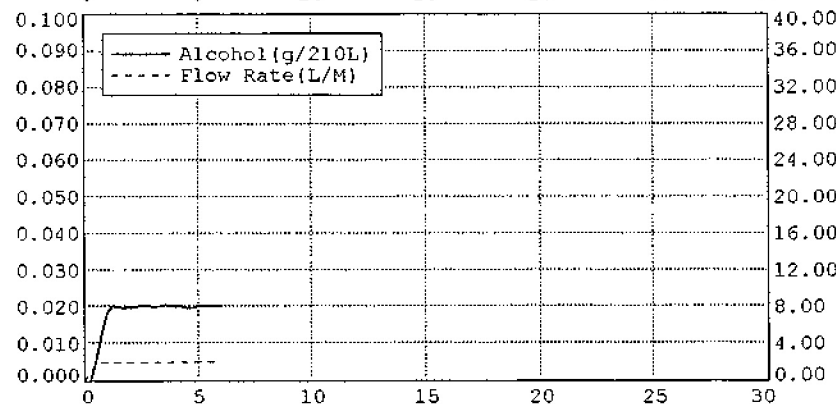
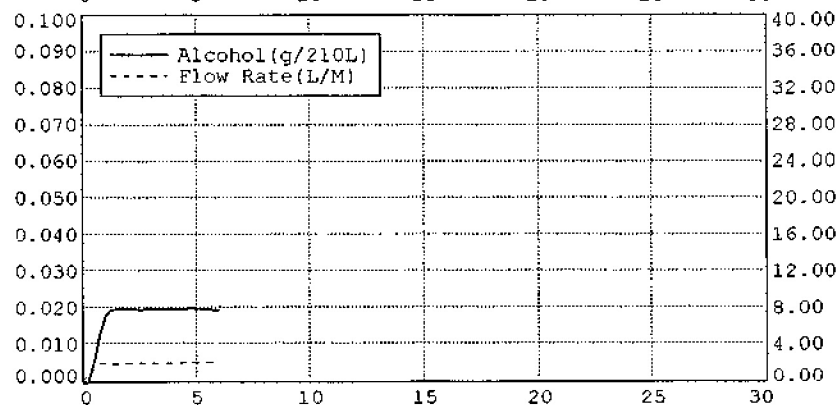
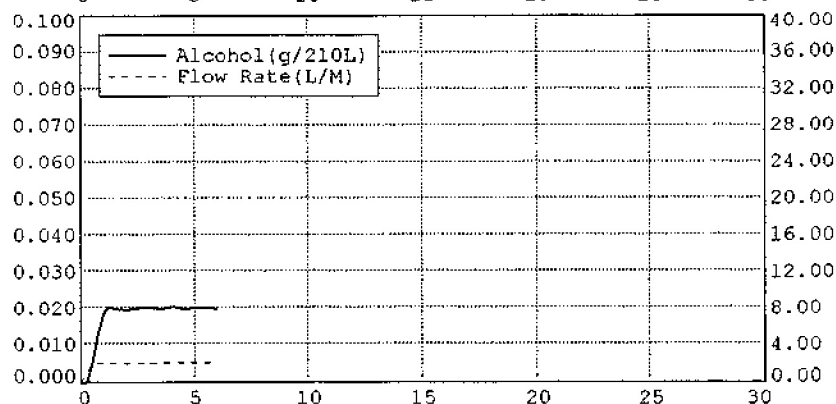
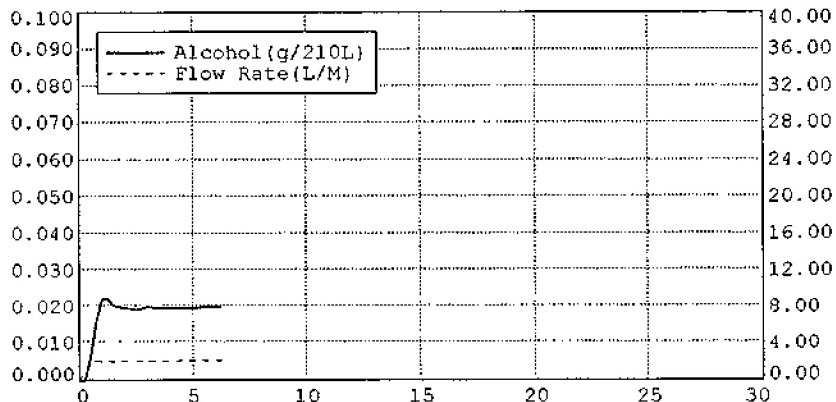
Date: 04/26/2013
Time: 08:19:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.22: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:20
INTERNAL STANDARD	VERIFIED	08:20
EXTERNAL STANDARD	0.020	08:20
BLANK TEST	0.000	08:21
EXTERNAL STANDARD	0.020	08:21
BLANK TEST	0.000	08:22
EXTERNAL STANDARD	0.020	08:23
BLANK TEST	0.000	08:23
EXTERNAL STANDARD	0.021	08:24
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.020	08:25
BLANK TEST	0.000	08:26

Average = 0.0207
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100348

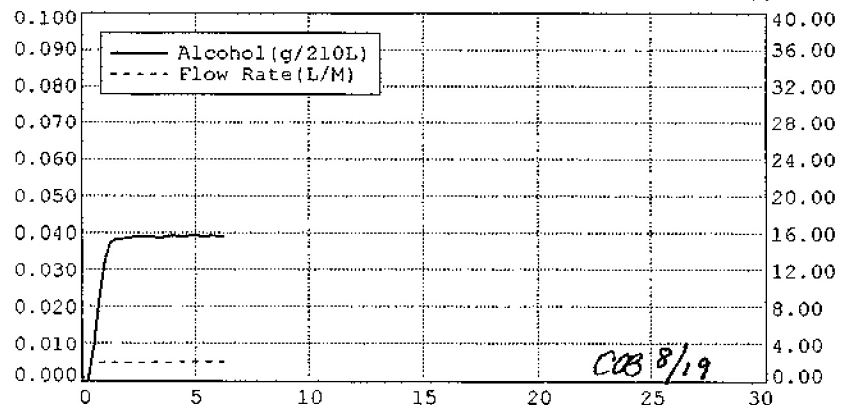
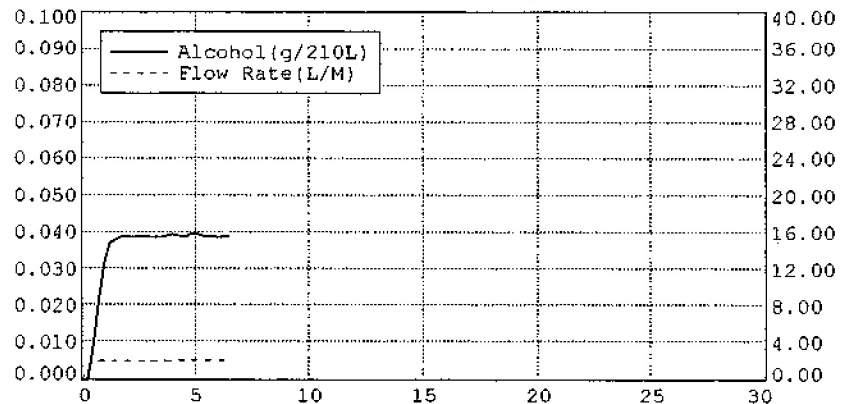
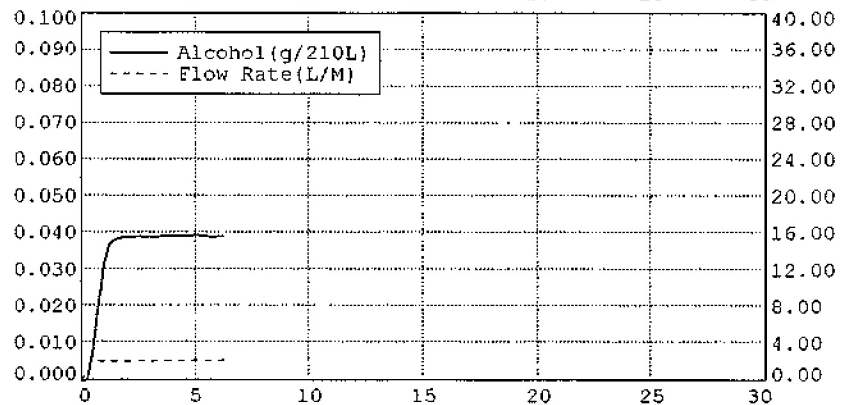
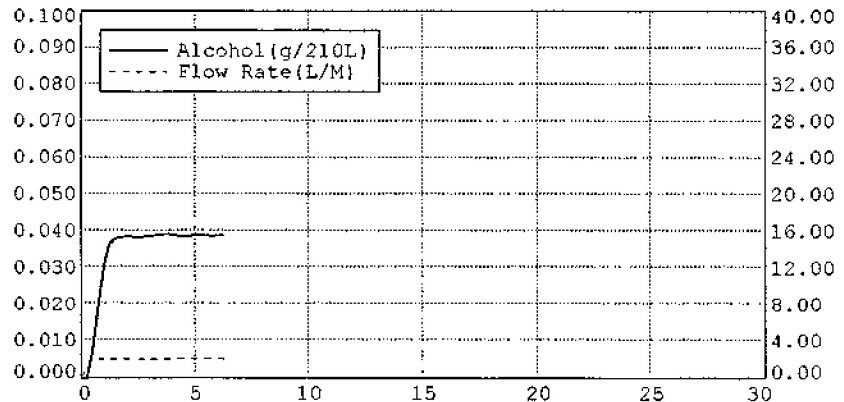
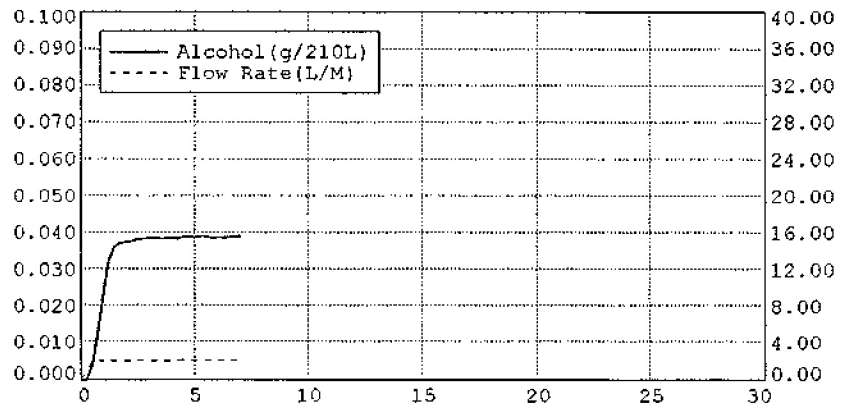
Date: 04/26/2013
Time: 08:31:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.22: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
EXTERNAL STANDARD	0.039	08:33
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.039	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.039	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.039	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.039	08:37
BLANK TEST	0.000	08:38

Average = 0.0398
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100348

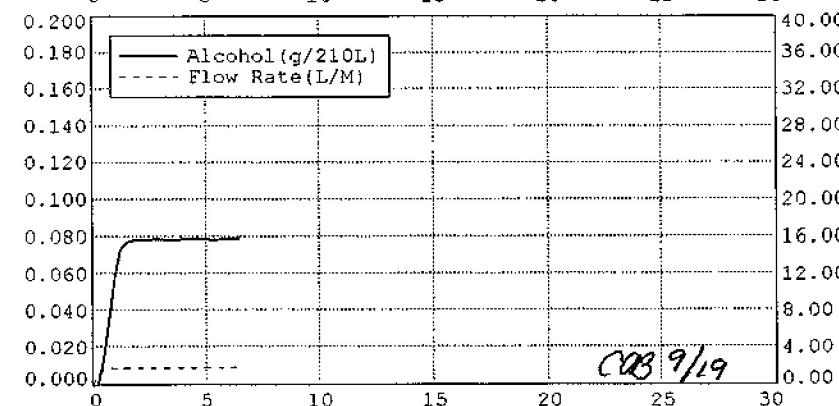
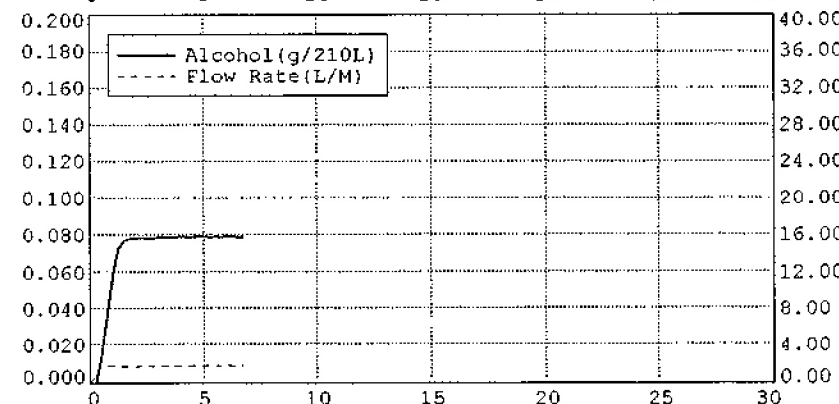
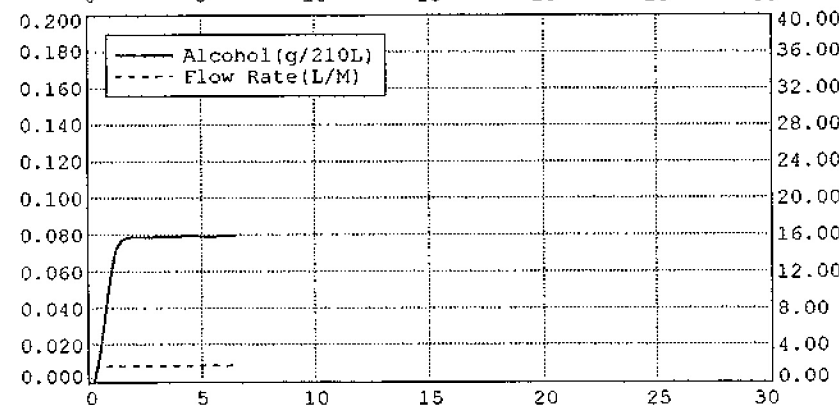
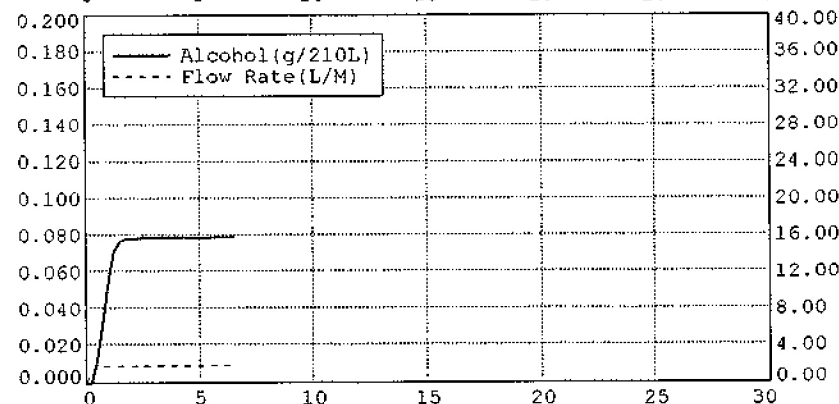
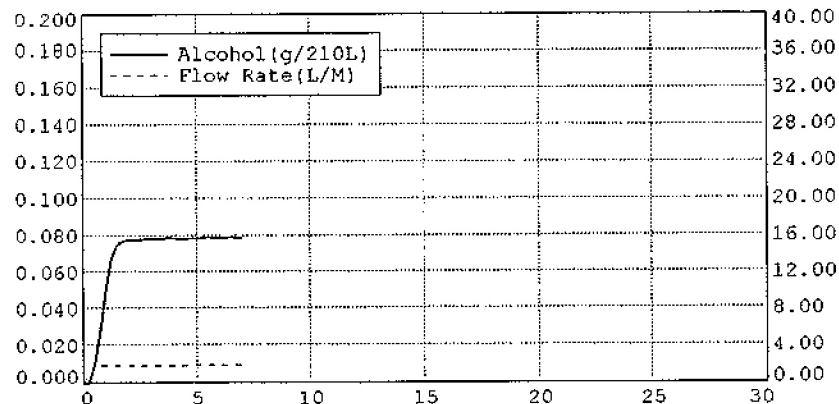
Date: 04/26/2013
Time: 08:41:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

BLANK TEST	0.000	08:42
INTERNAL STANDARD	VERIFIED	08:42
EXTERNAL STANDARD	0.079	08:42
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.079	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.080	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.080	08:46
BLANK TEST	0.000	08:47
EXTERNAL STANDARD	0.080	08:47
BLANK TEST	0.000	08:48

Average = 0.0800
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100348

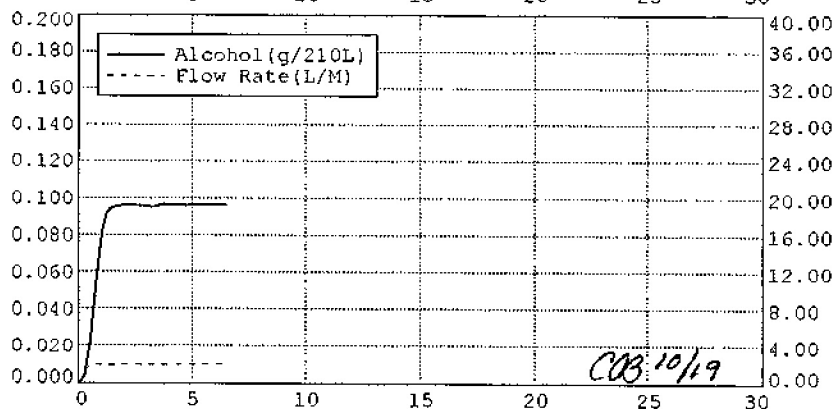
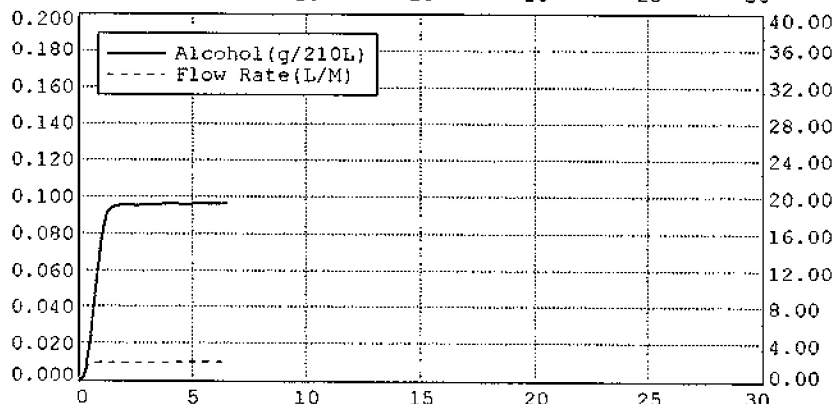
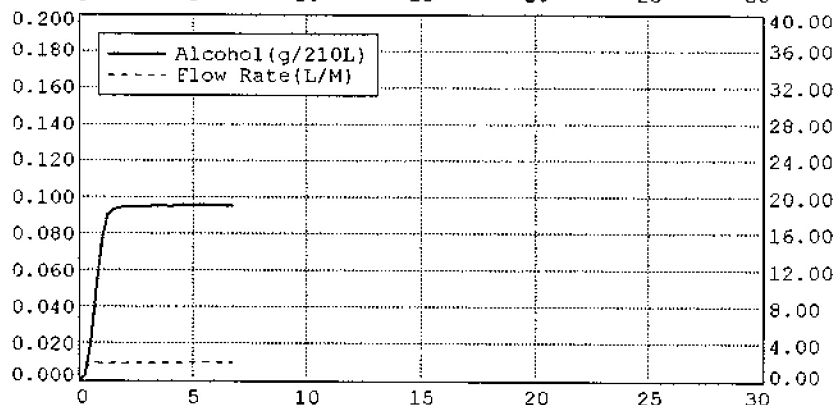
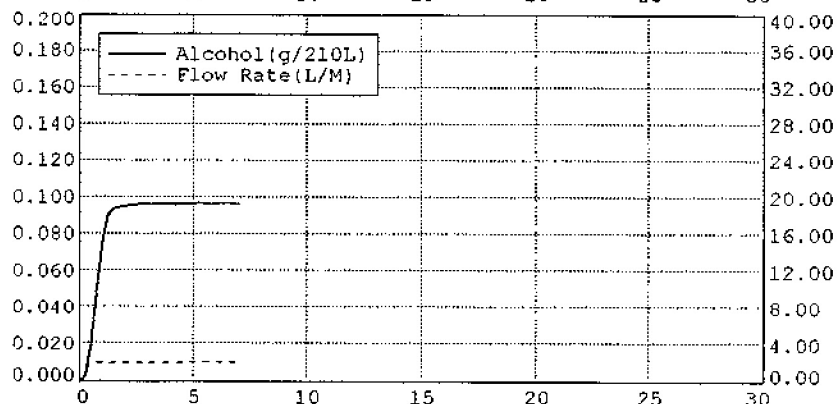
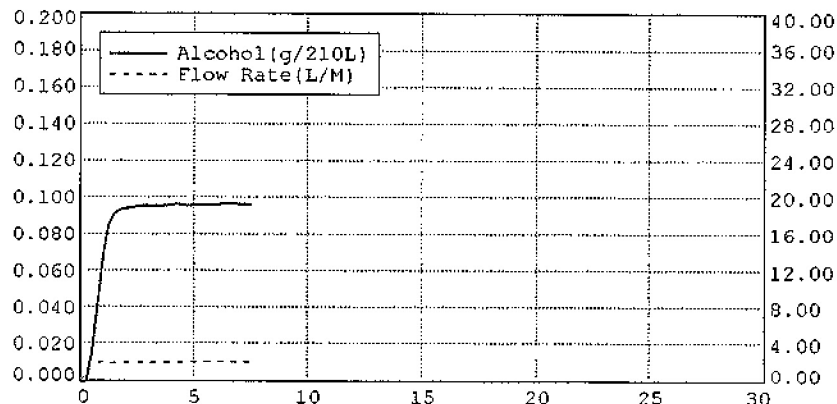
Date: 04/26/2013
Time: 08:48:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.22: 0.097
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.097	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.097	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.096	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.097	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.097	08:55
BLANK TEST	0.000	08:55

Average = 0.0971
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100348

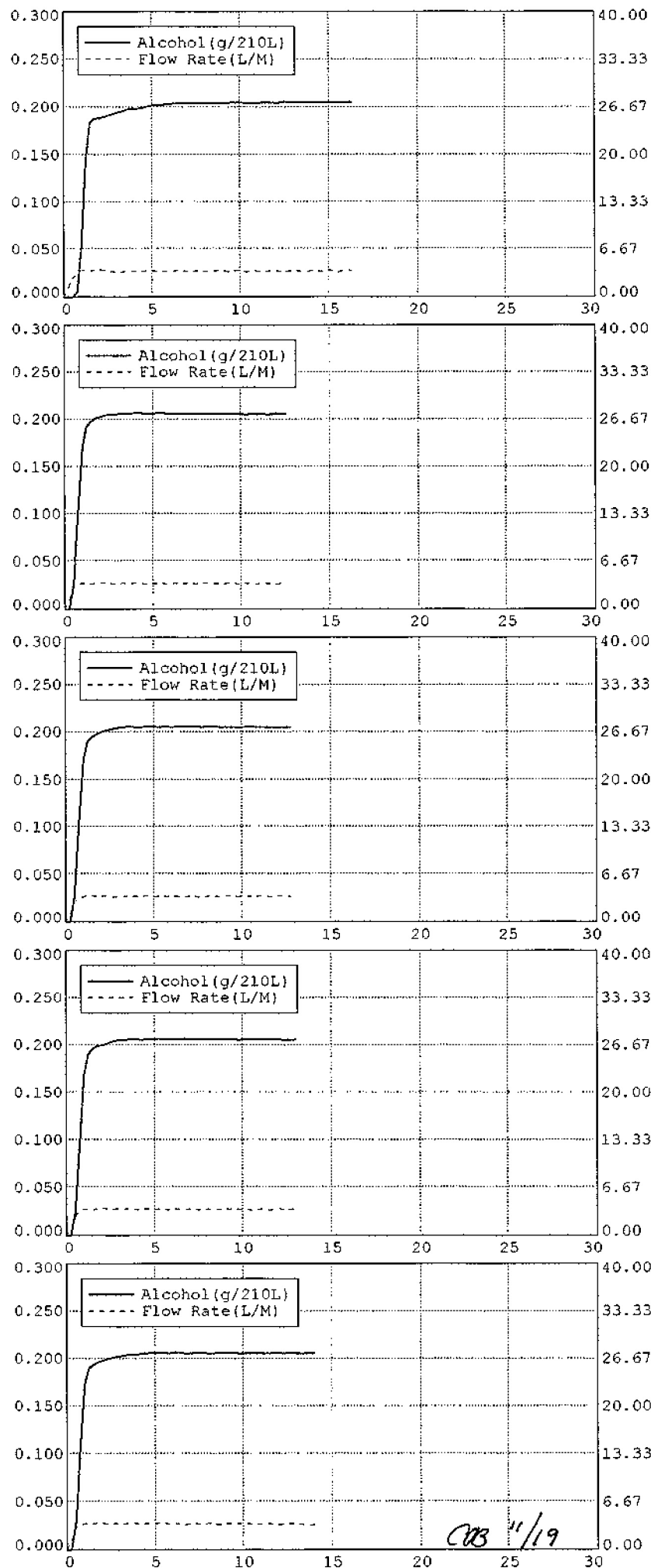
Date: 04/26/2013
Time: 08:56:44

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	08:57
INTERNAL STANDARD	VERIFIED	08:58
EXTERNAL STANDARD	0.205	08:58
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.206	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.205	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.206	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.205	09:03
BLANK TEST	0.000	09:04

Average = 0.2060
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100348

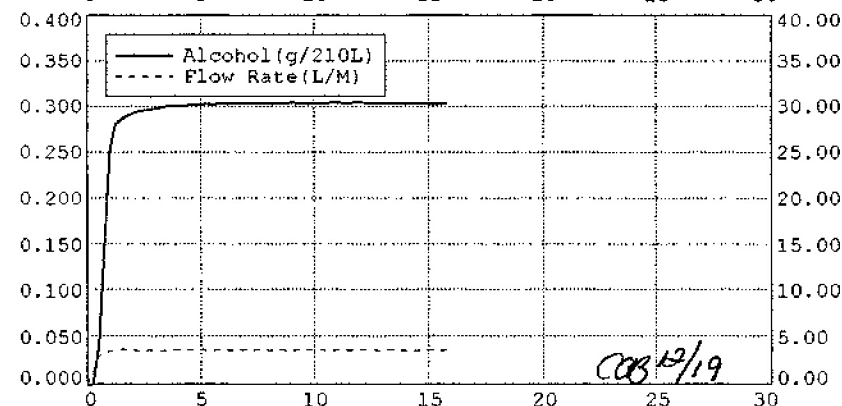
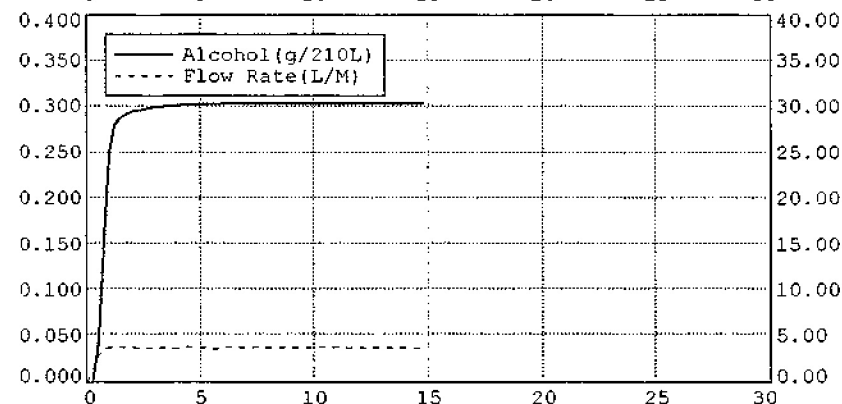
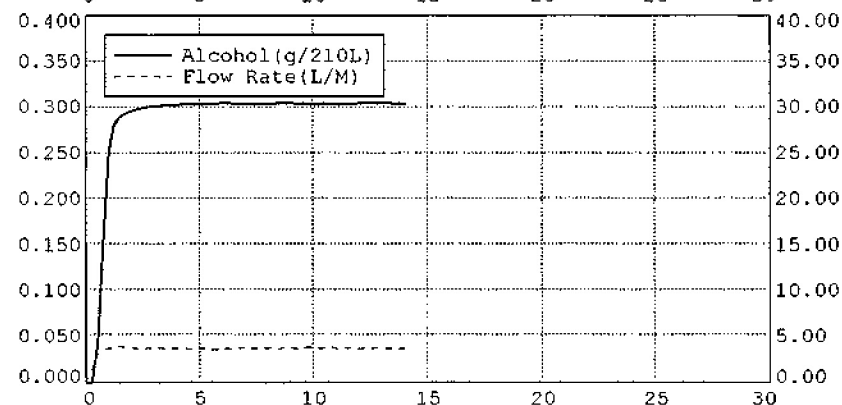
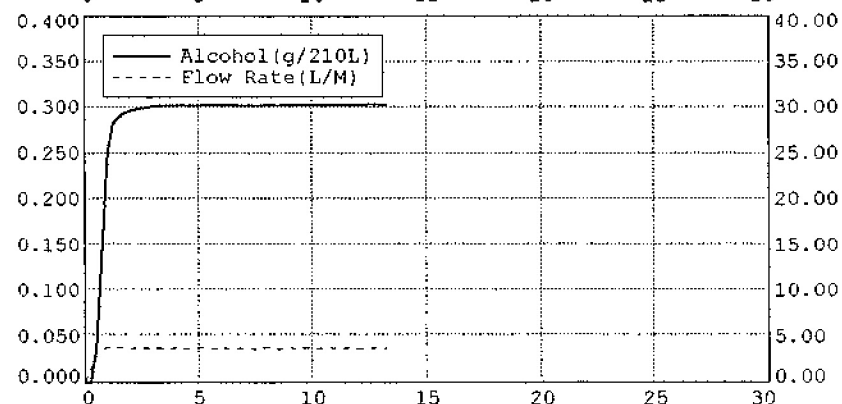
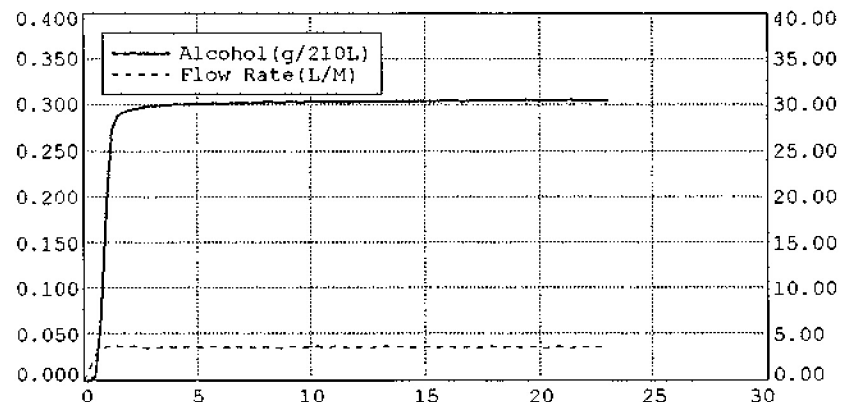
Date: 04/26/2013
Time: 09:09:48

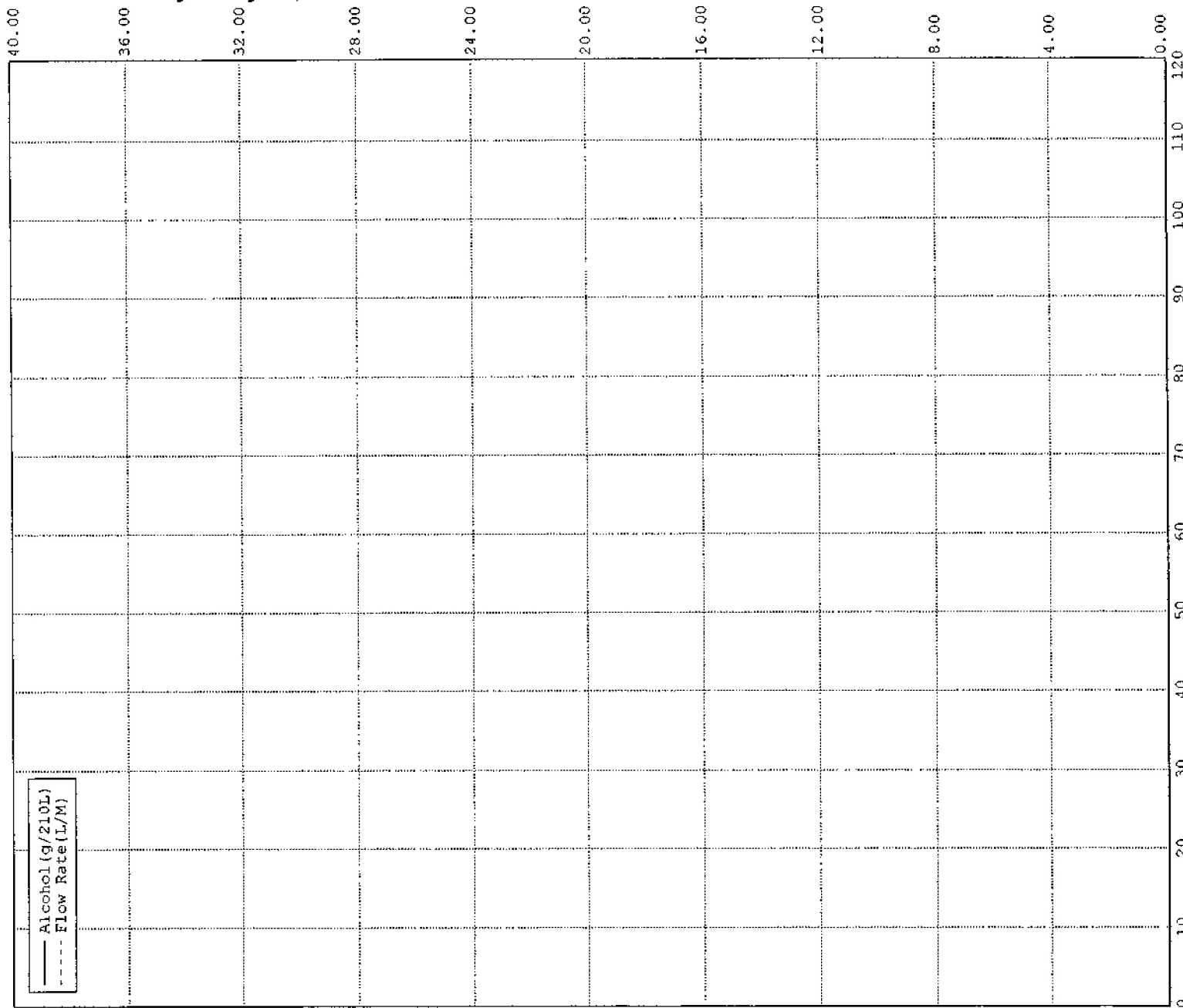
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	09:10
INTERNAL STANDARD	VERIFIED	09:11
EXTERNAL STANDARD	0.305	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.303	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.304	09:14
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.303	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.304	09:16
BLANK TEST	0.000	09:17

Average = 0.3041
Std Dev = 0.0008





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 09:28:41

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

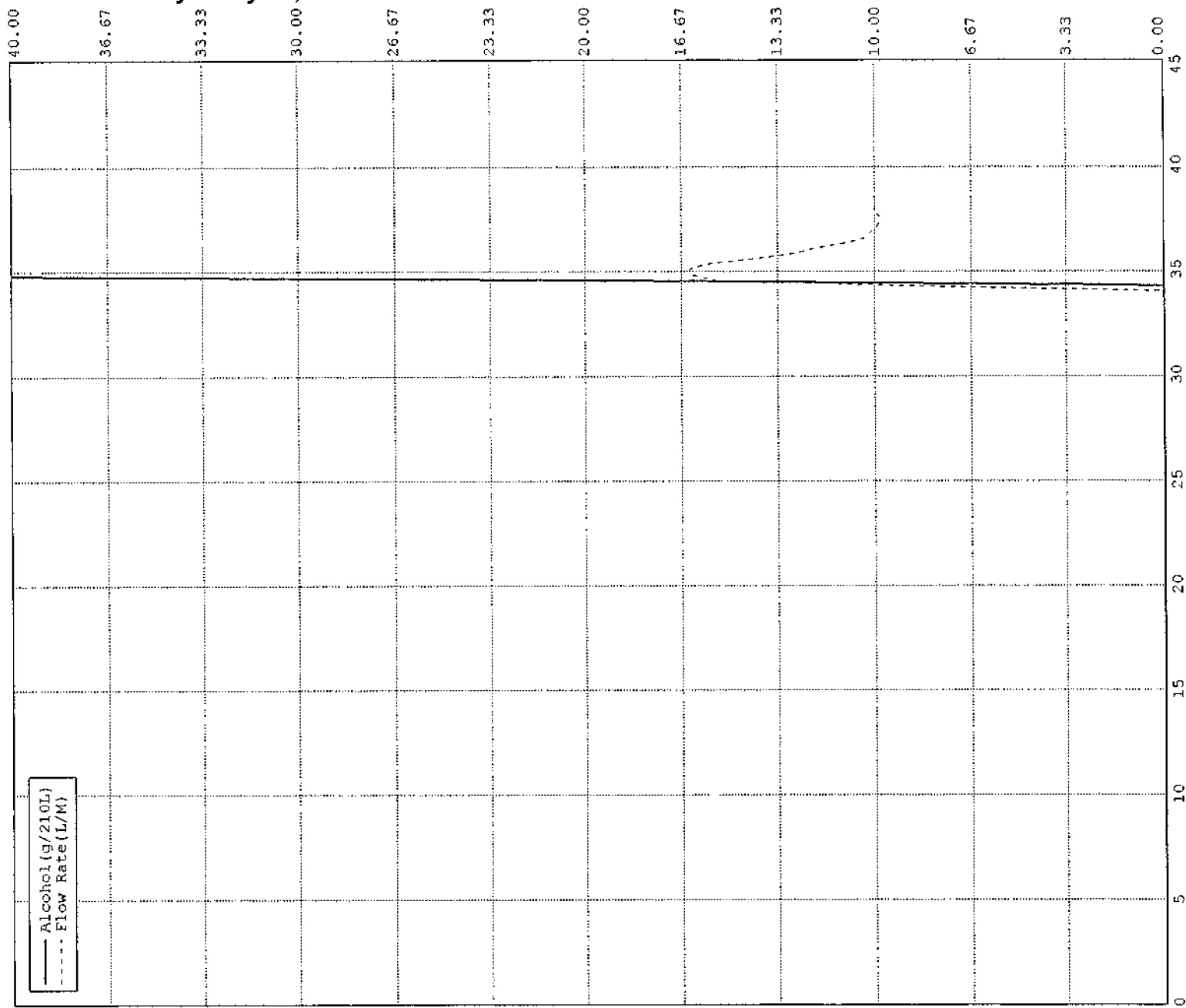
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:03
BLANK TEST	0.000	10:03
INTERNAL STANDARD	VERIFIED	10:03
EXTERNAL STANDARD	0.080	10:04
BLANK TEST	0.000	10:05
SUBJECT SAMPLE	INCOMPLETE	10:07

CAB
 CAB 13/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 10:15:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

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

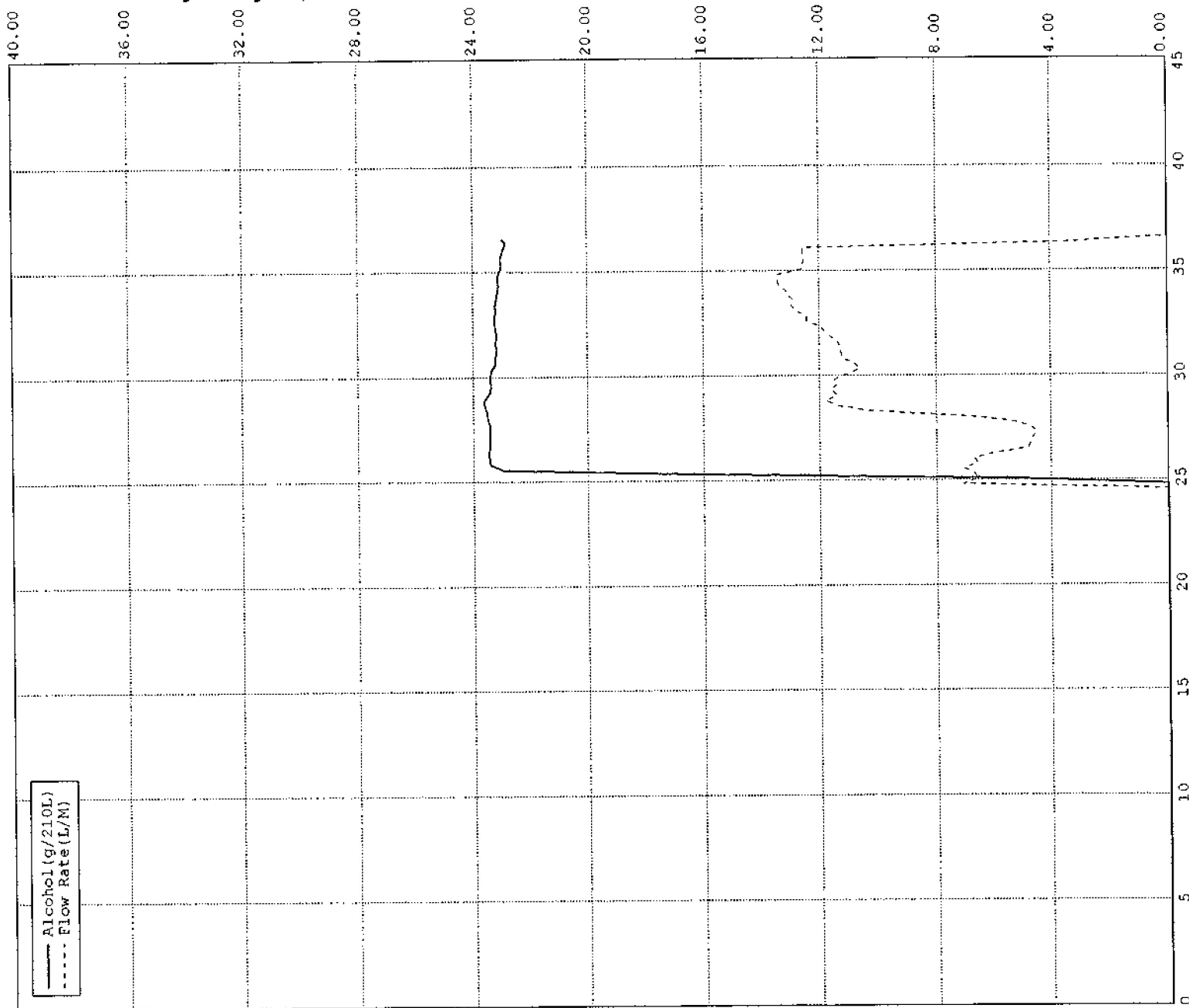
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.18: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	10:20
BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.079	10:20
BLANK TEST	0.000	10:21
SUBJECT SAMPLE	INVALID	10:22

COB

COB 4/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 10:24:46

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

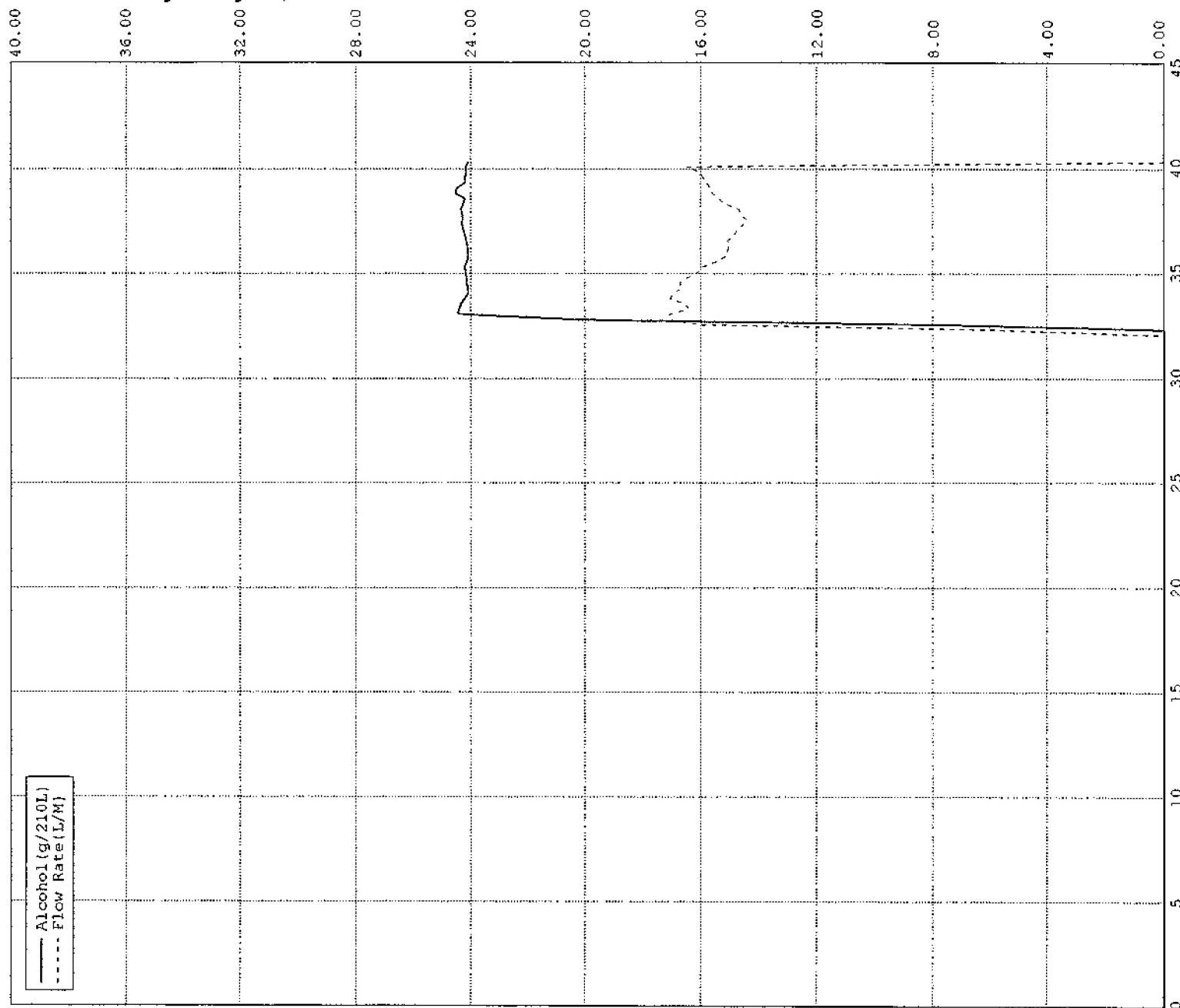
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:25
BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:26
Xq = 0.086 (0.51%)	0.079	10:26
EXTERNAL STANDARD	X[1] = 0.0799 (0.0002)	(0.0024)
BLANK TEST	0.000	10:27
SUBJECT SAMPLE	INTERFERENCE	10:27
X[1] = 0.1154 (-0.0208)	(0.0002)	

COB

COB 4/15/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 10:30:27

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

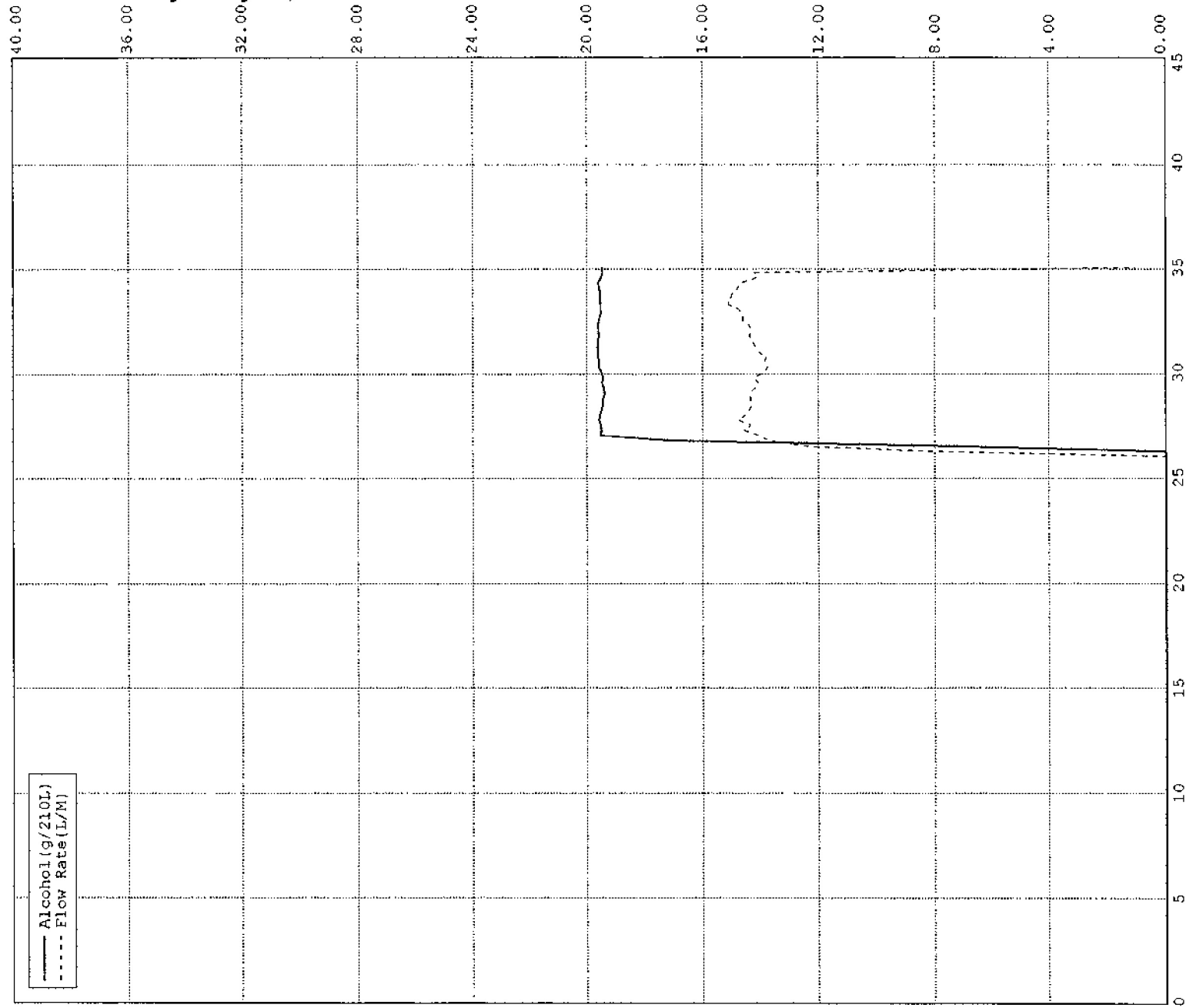
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.18: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:31
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
Xq = 0.086 (0.20%)		
EXTERNAL STANDARD	0.079	10:31
X[1] = 0.0798 (-0.0005)	(0.0014)	
BLANK TEST	0.000	10:32
SUBJECT SAMPLE	INTERFERENCE	10:33
X[1] = 0.1210 (-0.0279)	(-0.0011)	

CB

04/16/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 04/26/2013
Time: 10:38:32

SUBJECT NAME:

TEST TEST

LICENSE #: INT-NEGATIVE

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 29.18: 0.078

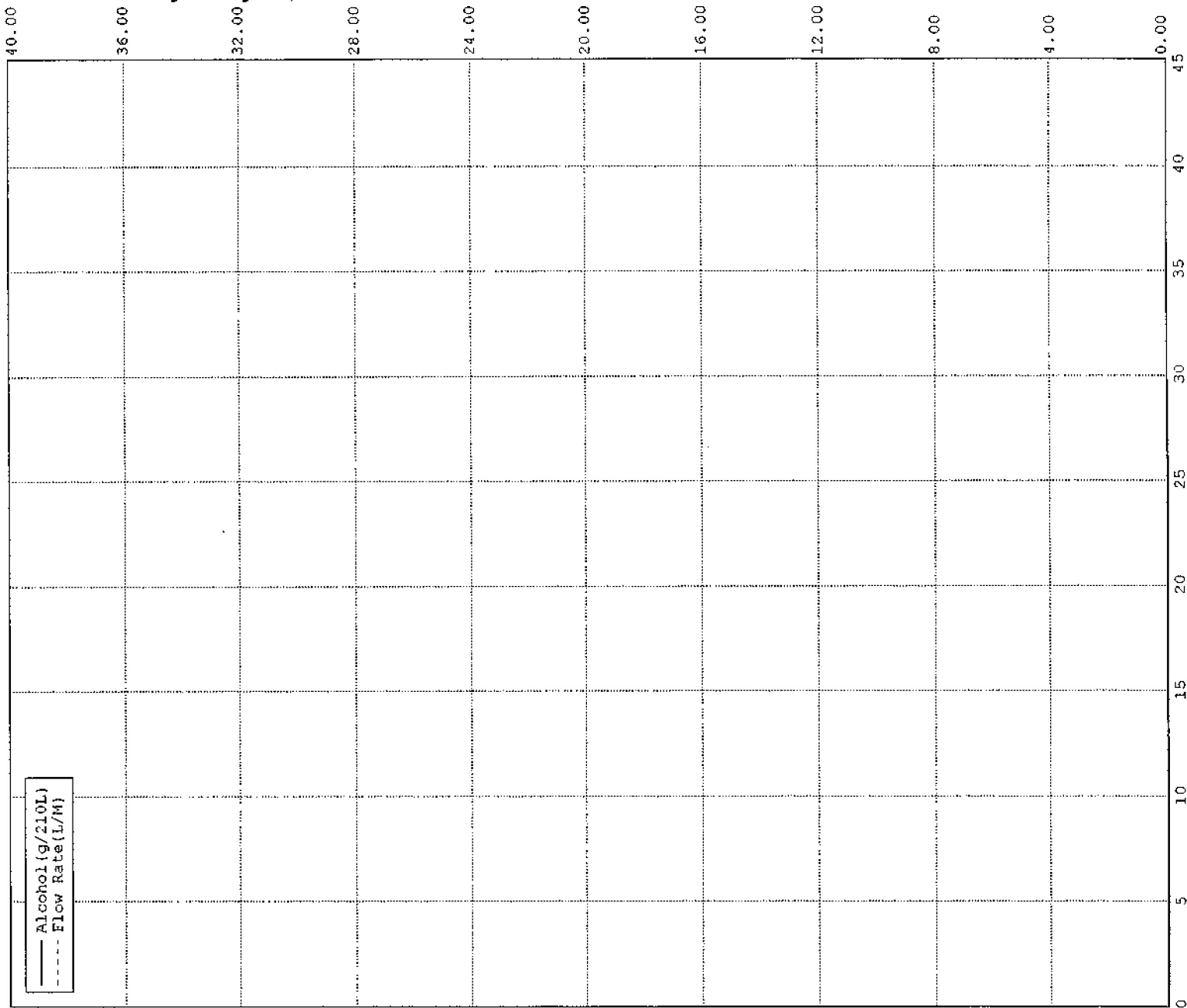
LOT #: 22612080A1

EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:40
BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
$X_q = 0.087$ (0.61%)		
EXTERNAL STANDARD	0.080	10:40
$X[1] = 0.0801$ (0.0001)	(0.0018)	
BLANK TEST	0.000	10:41
SUBJECT SAMPLE (Vol=2.06L)	0.097	10:42
$X[1] = 0.0975$ (-0.0015)	(-0.0004)	
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:43
$X[1] = 0.0799$ (-0.0001)	(0.0005)	
BLANK TEST	0.000	10:44

CAB

CAB 17/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 04/26/2013
 Time: 10:52:18

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

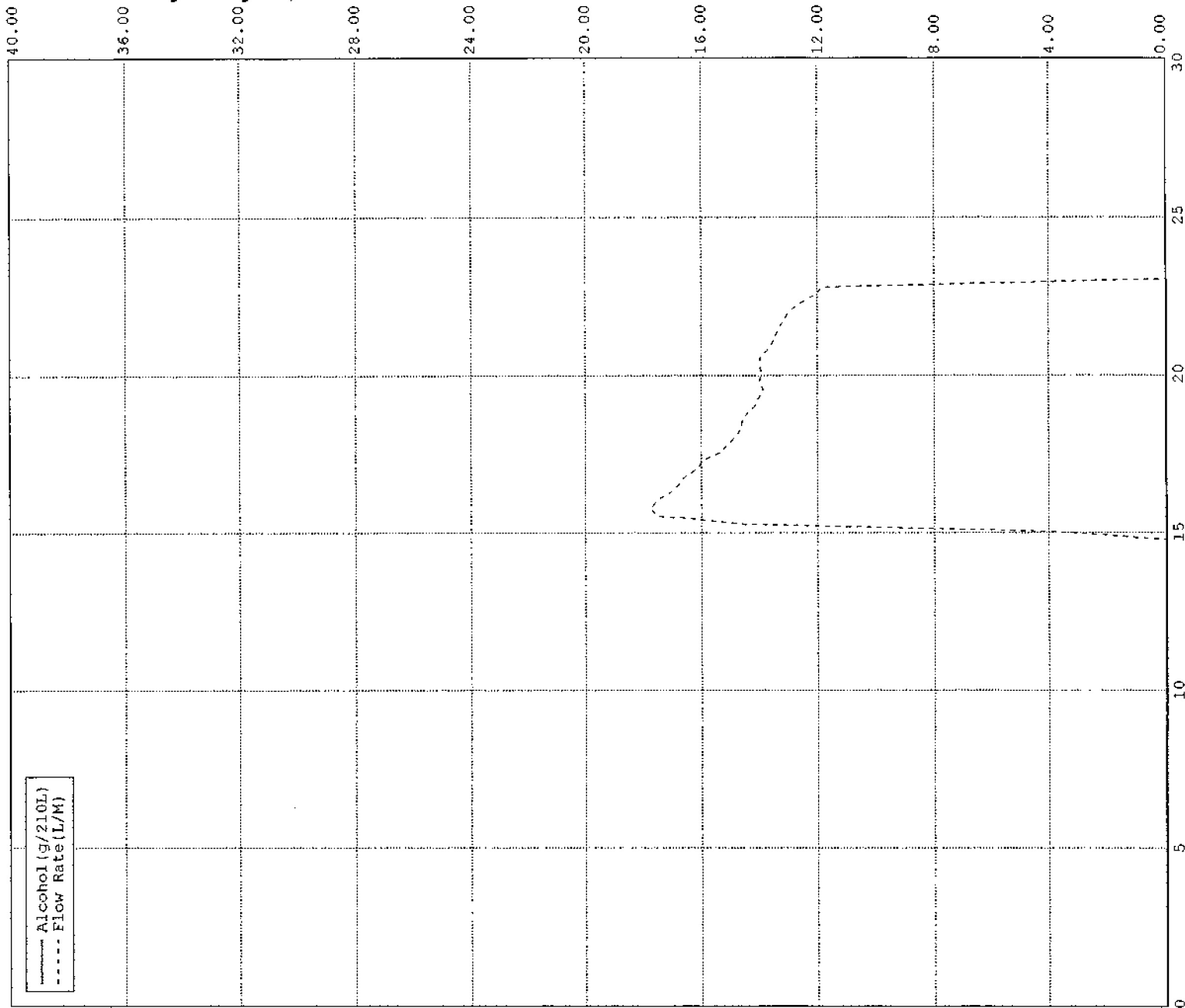
DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.18: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:58
BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.080	10:59
BLANK TEST	0.000	11:00

RFI DETECTED

00318/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 04/26/2013
Time: 11:16:05

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 29.17: 0.077

LOT #: 22612080A1

EXPIRATION: 09/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	11:17
BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.080	11:17
BLANK TEST	0.000	11:18
SUBJECT SAMPLE	0.000	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.080	11:20
BLANK TEST	0.000	11:20

COB

COB 19/19