

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100403 Analyst Colleen O'Bryant Start Date 7/12/13
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 00813030A1 Exp 3/1/15ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/141. Simulator S/N DR4162 Date Calibrated 10/9/12vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/151. Simulator S/N DR4163 Date Calibrated 10/8/12

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot ¹³⁰¹⁰~~13080~~ Level 0.100 Exp 1/9/151. Simulator S/N DR5298 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot ¹³⁰¹⁰~~13080~~ Level 0.100 Exp 1/9/151. Simulator S/N SD1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot ¹³⁰¹⁰~~0.100~~ Level 0.100 Exp 1/9/151. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 ☒

* following step #11 instrument would not upload. Replaced modem board and redid voc from step #10. Uploaded inst.
Approved by Forensic Alcohol Supervisor COB 7/22/13

End Date 7/23/13

All printed copies are uncontrolled.

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/12/2013
Time: 08:14:36

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 45.1°C PASSED

PUMP INFO

Flow Rate = 5.341 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

Technician Screen

DATAMASTER dmt: 100403

Date: 07/12/2013

Time: 9:10 AM

Temperatures (°C)

Sample Cell: 49.4°C

Breath Tube: 45.6°C

Current Barometer 29.4 in

Volume (Ltr) 1.54

Settings

Lamp: 1.73 V

Bias: 80 V

Cooler: 1.64 V

Chopper: 544 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.036 V

CALIBRATION FACTORS

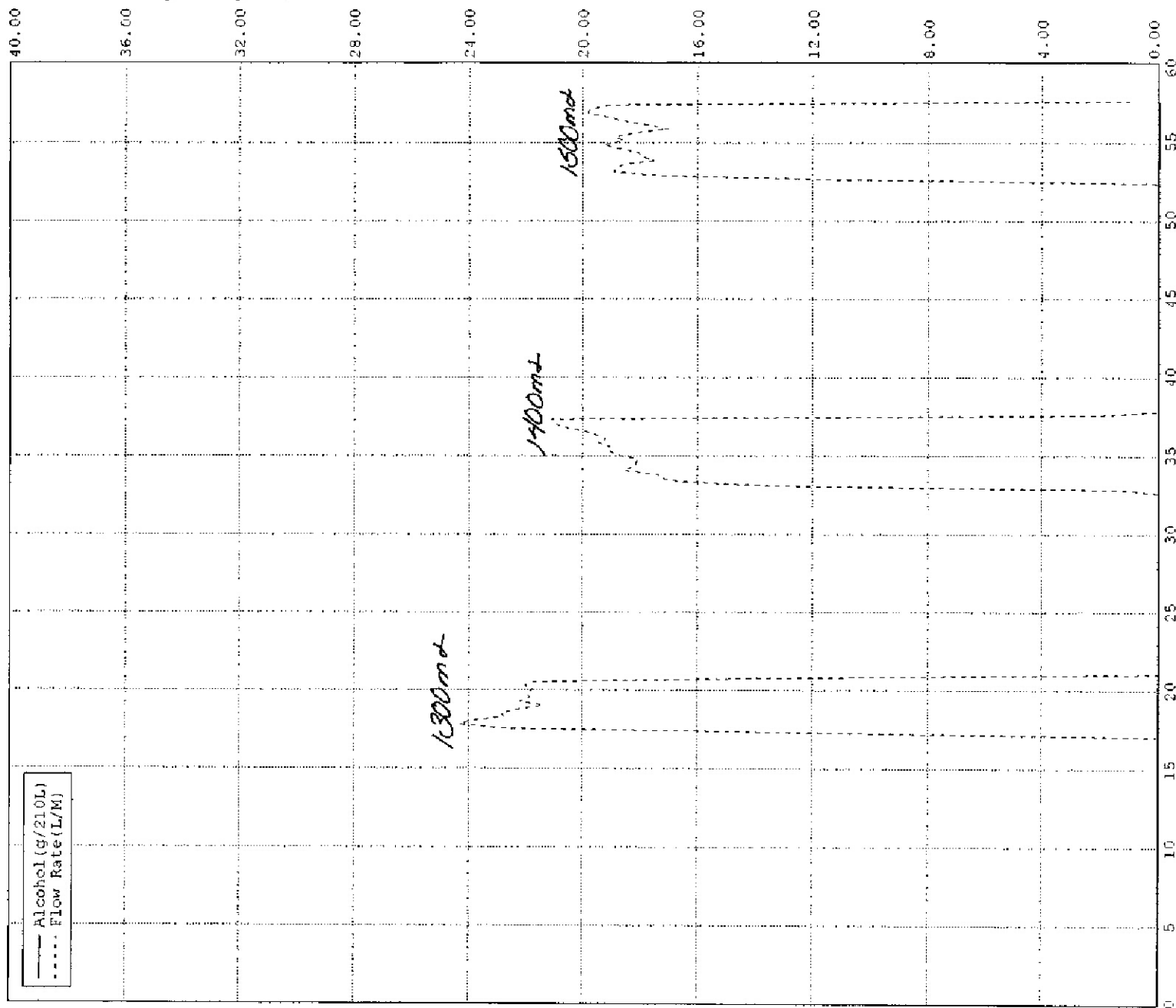
Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 05/18/2011
Time: 13:44:51

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

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

Ca	=	0.1000		
CAL	=	0.986050	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0043	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0743	0.0500	<= Xq < 0.2000
a21	=	1.112347	1.050	<= a21 < 1.300
a31	=	0.534530	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100403

Date: 07/12/2013
 Time: 09:12:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
 AAAL

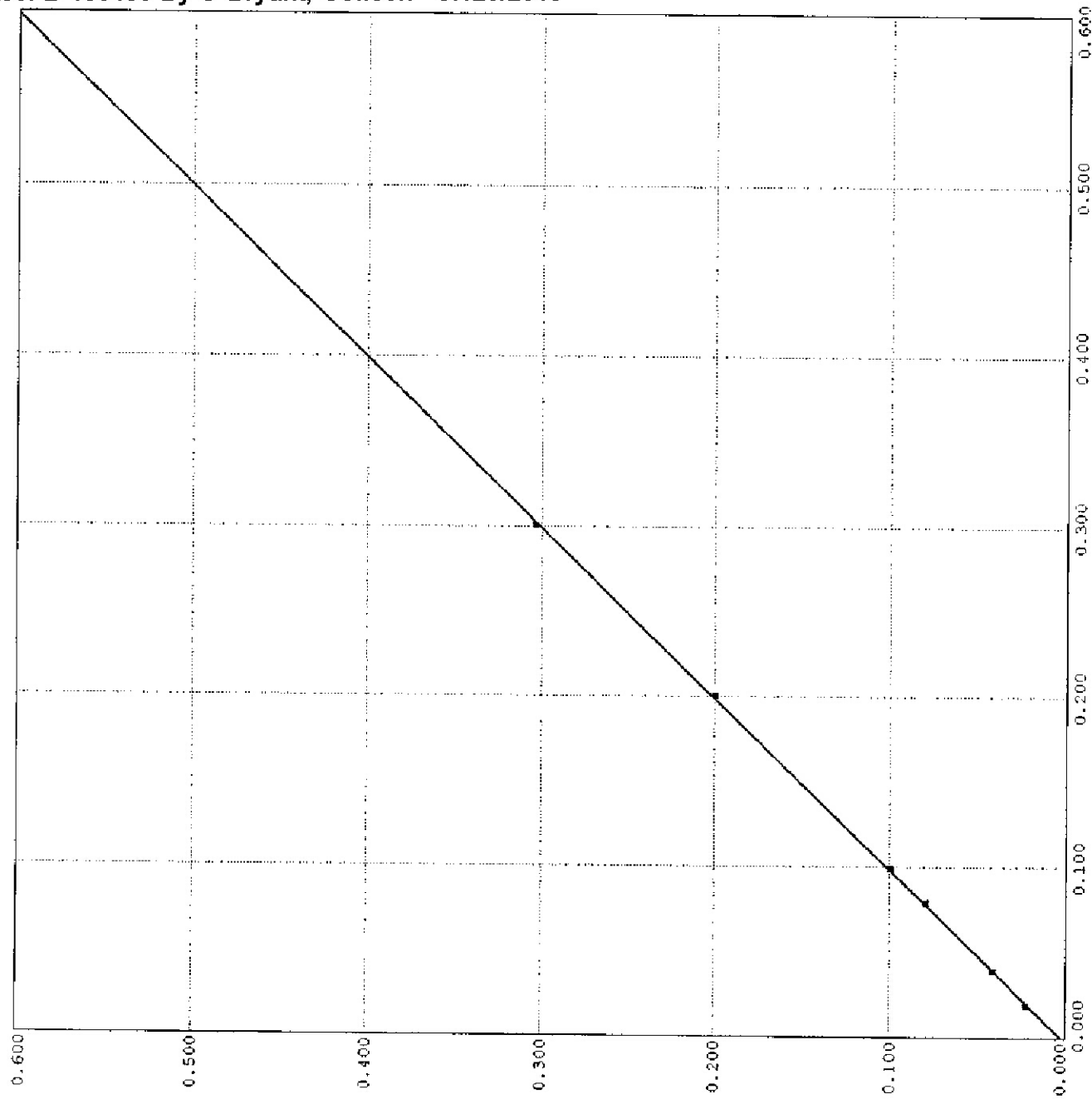
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.43: 0.078
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:15
BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:15
EXTERNAL STANDARD	0.079	09:16
BLANK TEST	0.000	09:17
SUBJECT SAMPLE	0.000	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.079	09:19
BLANK TEST	0.000	09:20

SRB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

Date: 07/15/2013
 Time: 13:43:14

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0233	0.0003
0.039	0.0426	0.0004
0.079	0.0807	0.0006
0.099	0.1007	0.0001
0.200	0.2004	0.0002
0.300	0.3042	0.0003

SLOPE = 0.998652
 R^2 = 0.999773

COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100403

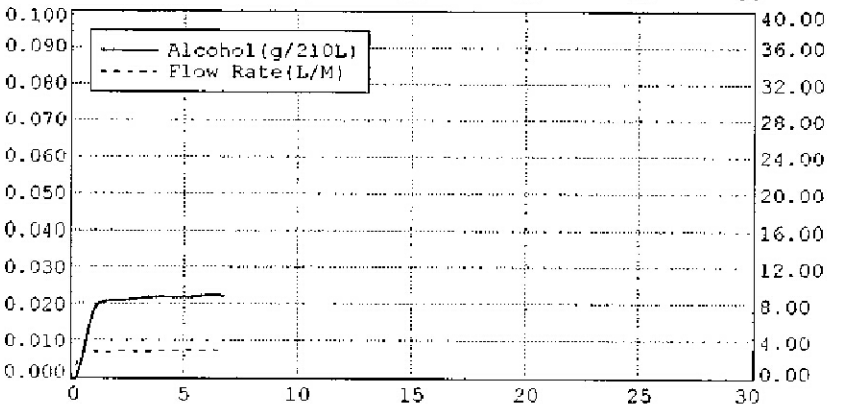
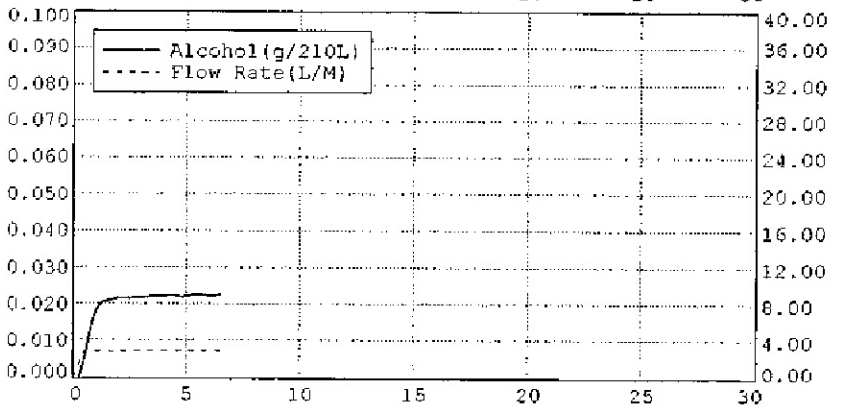
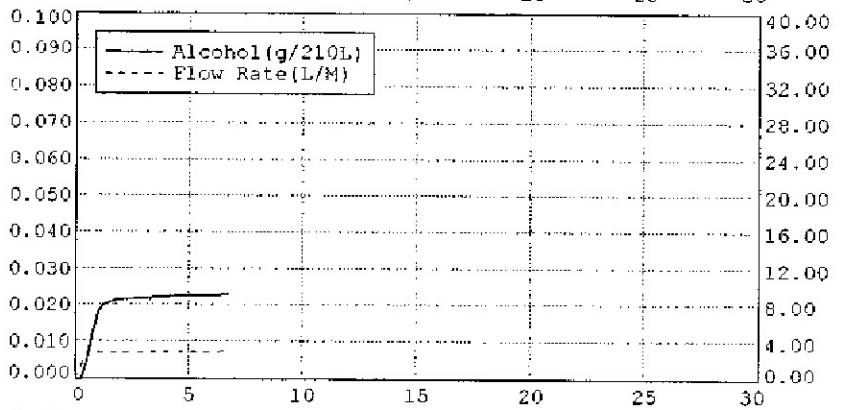
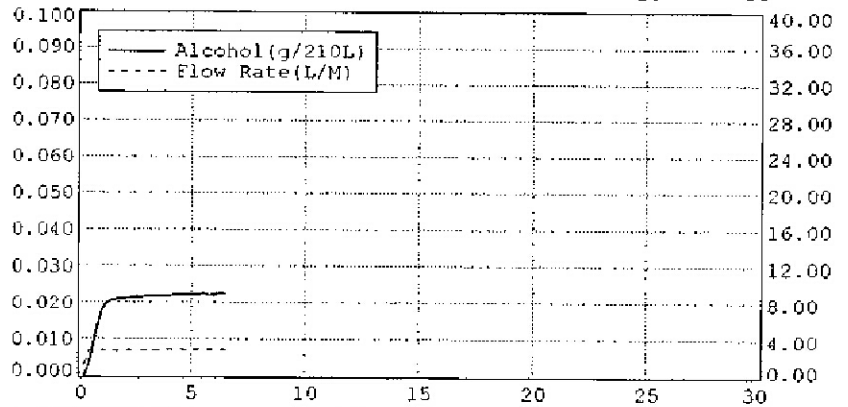
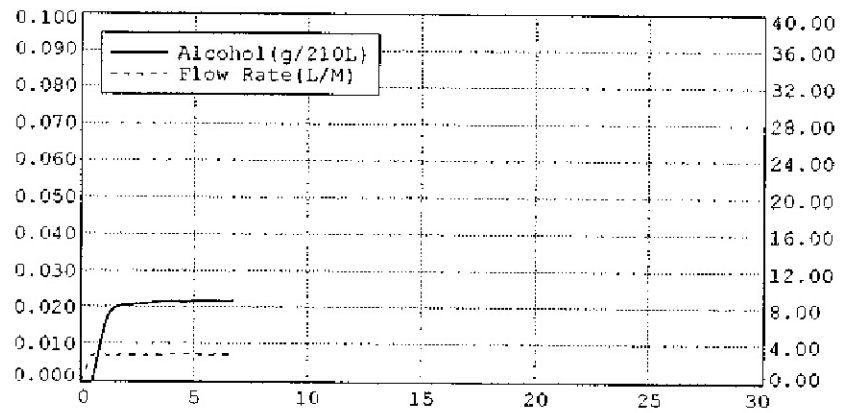
Date: 07/15/2013
Time: 13:43:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.80: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.022	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.023	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.023	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.023	13:48
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.023	13:49
BLANK TEST	0.000	13:50

Average = 0.0233
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100403

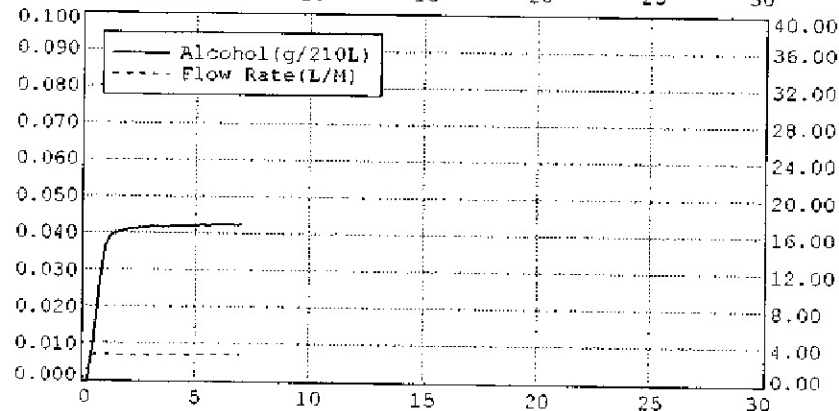
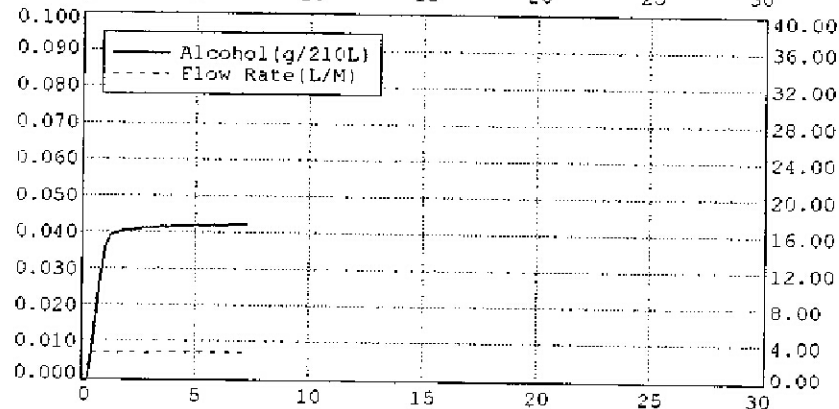
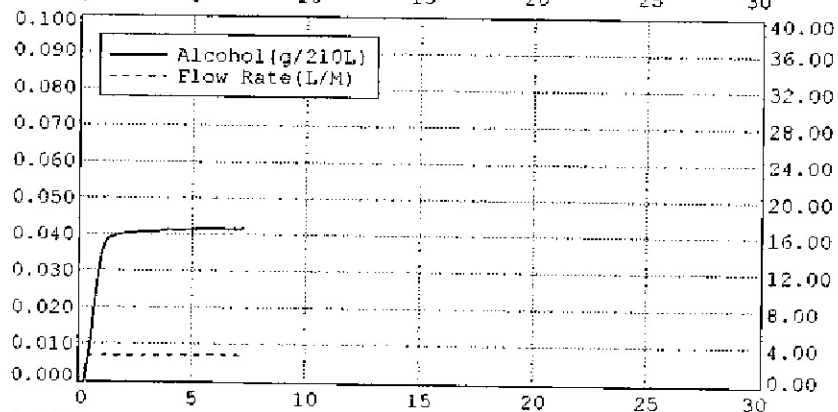
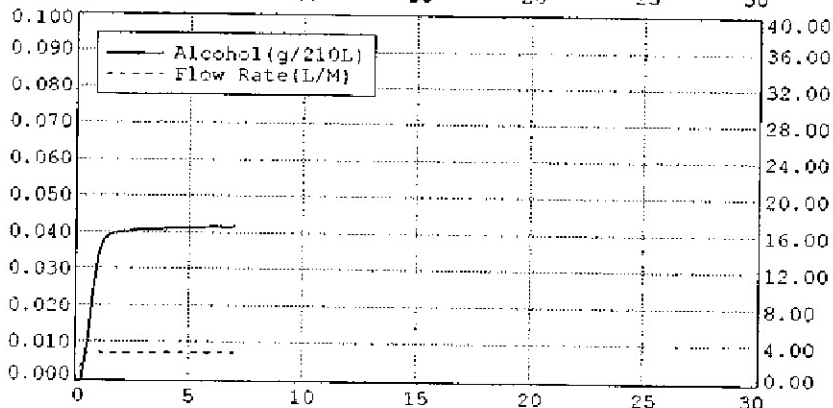
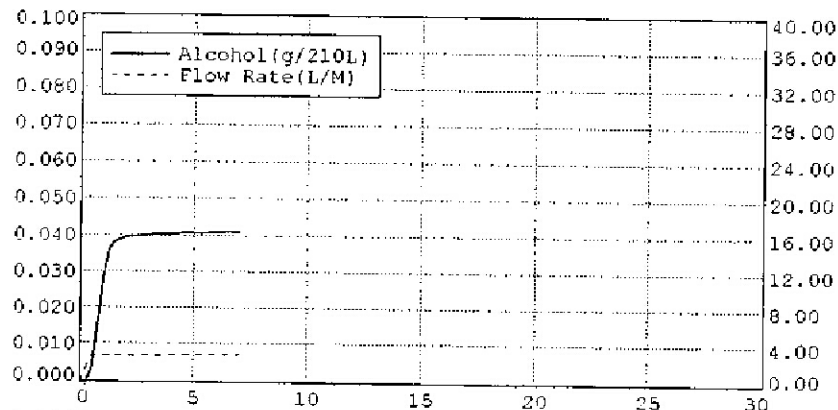
Date: 07/15/2013
Time: 13:55:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.80: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.042	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.042	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.042	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.042	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.043	14:01
BLANK TEST	0.000	14:02

Average = 0.0426
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100403

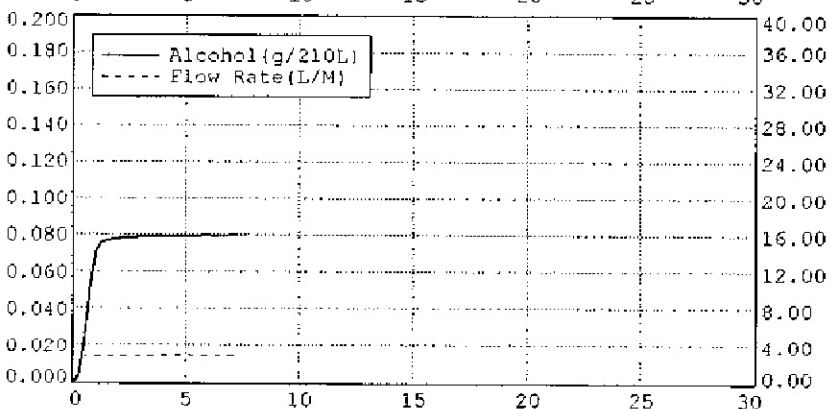
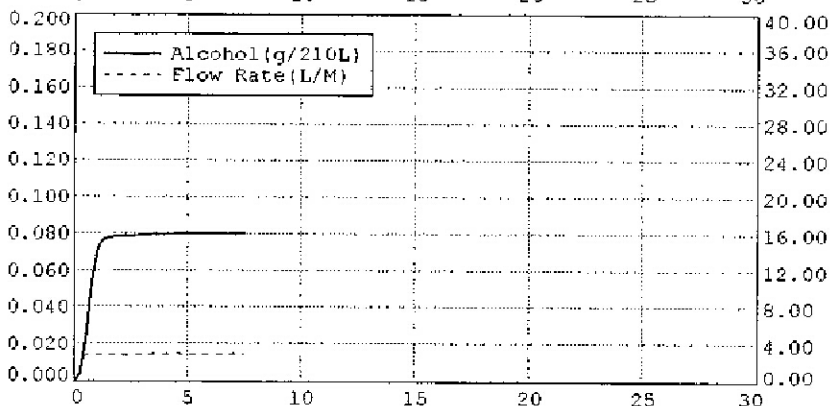
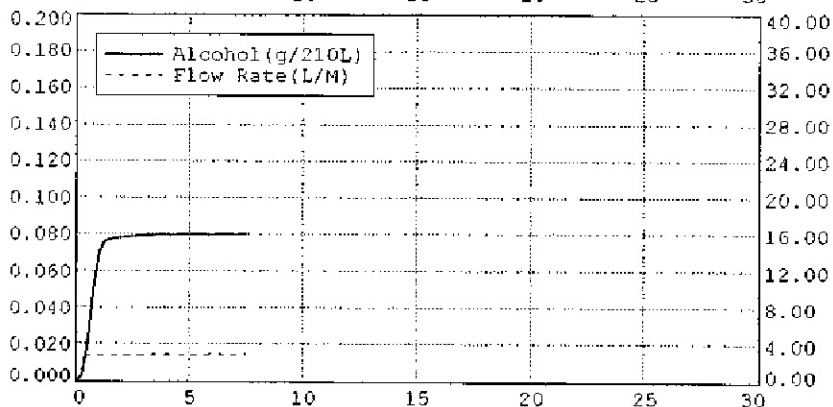
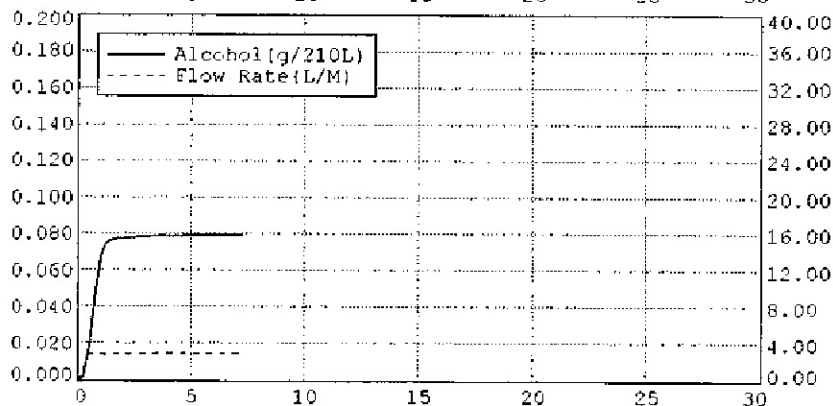
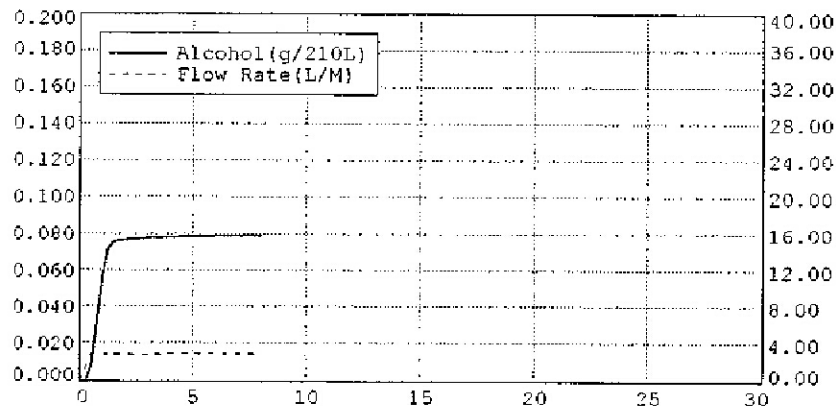
Date: 07/15/2013
Time: 14:17:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.079	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.081	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.081	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.080	14:23
BLANK TEST	0.000	14:24

Average = 0.0807
Std Dev = 0.0006



LINEARITY CHECK: Control Test 4

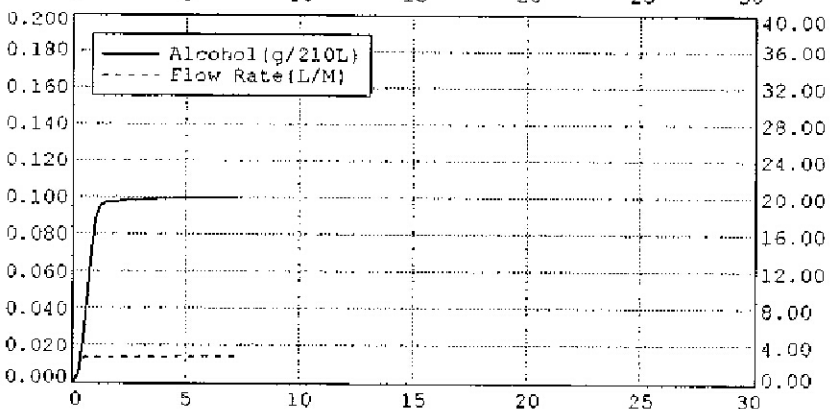
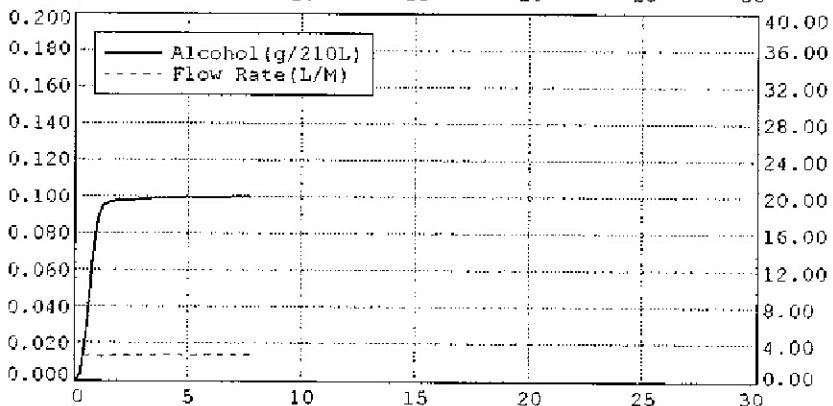
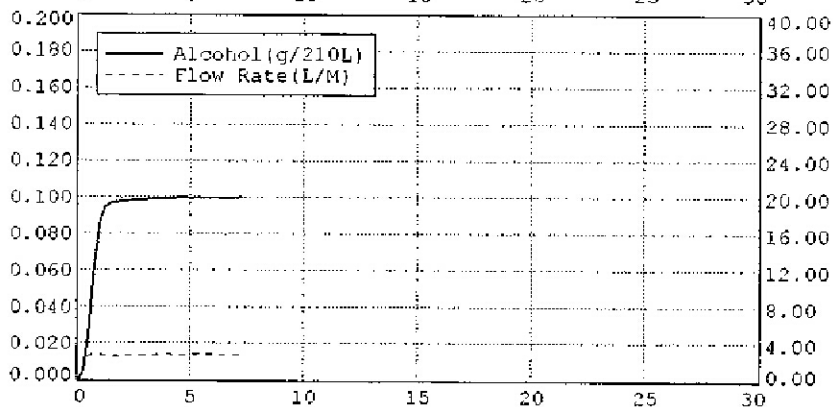
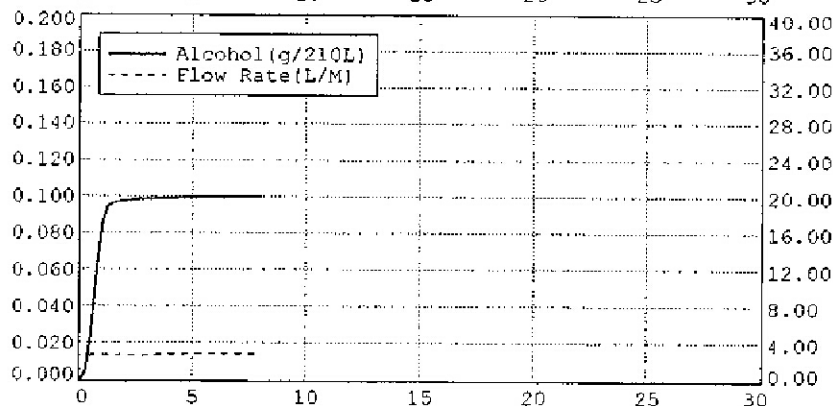
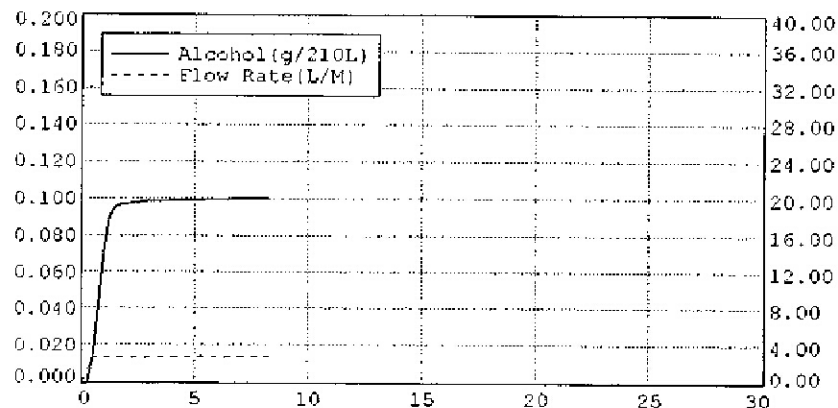
Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/15/2013
Time: 14:31:11

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.79: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.100	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.100	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.100	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.100	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.100	14:37
BLANK TEST	0.000	14:38

Average = 0.1007
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100403

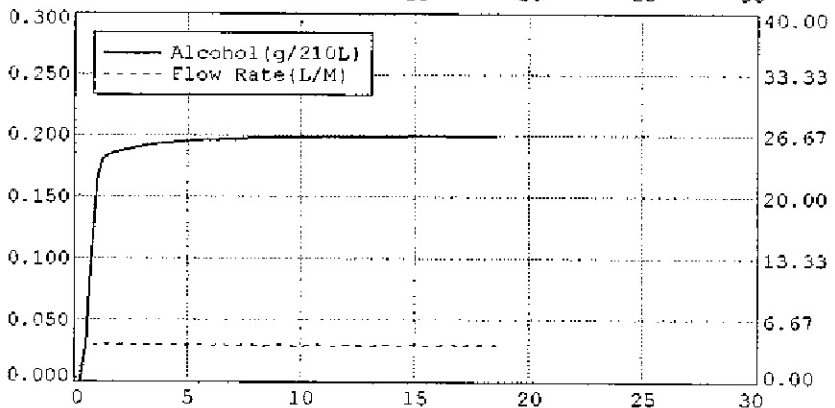
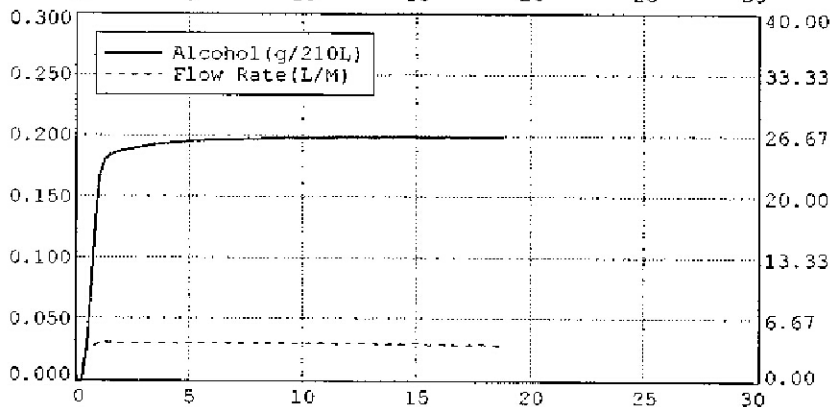
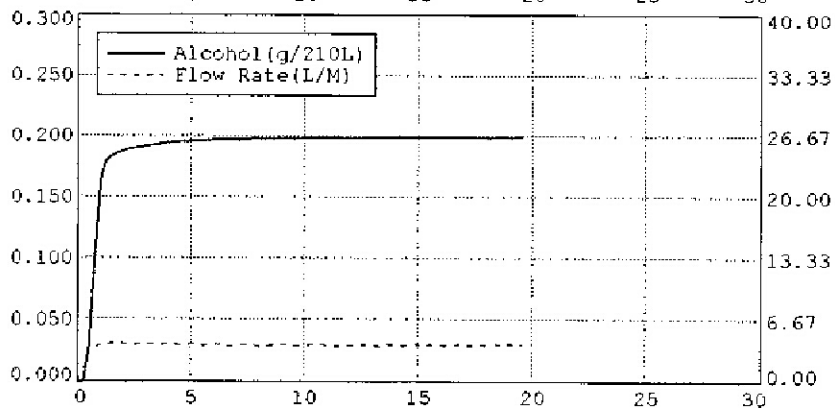
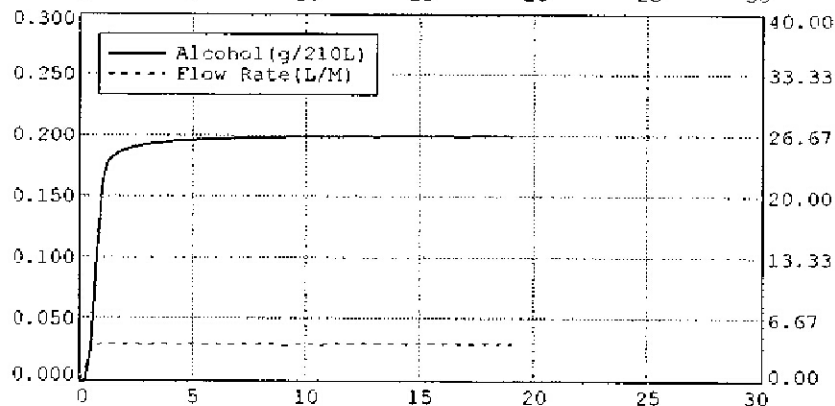
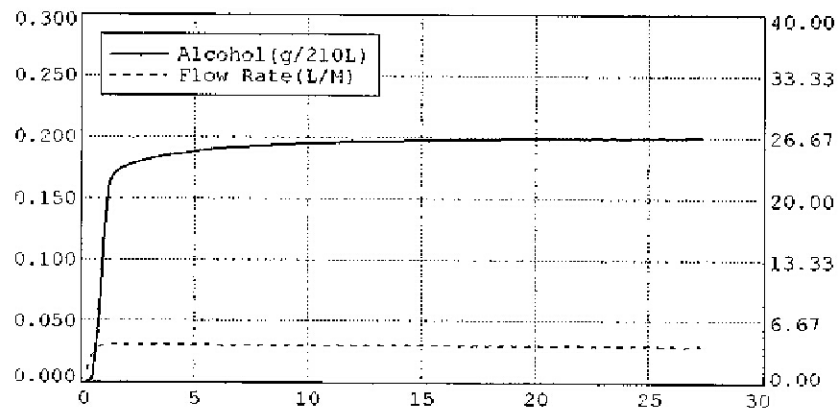
Date: 07/15/2013
Time: 14:39:54

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.200	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.200	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.200	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.200	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.200	14:49
BLANK TEST	0.000	14:50

Average = 0.2004
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100403

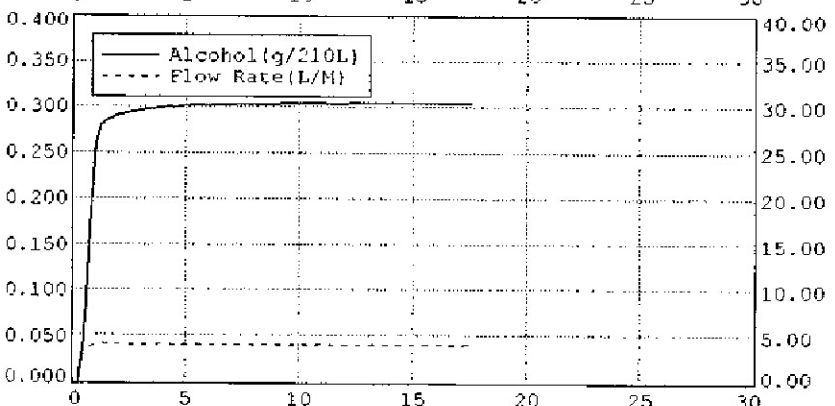
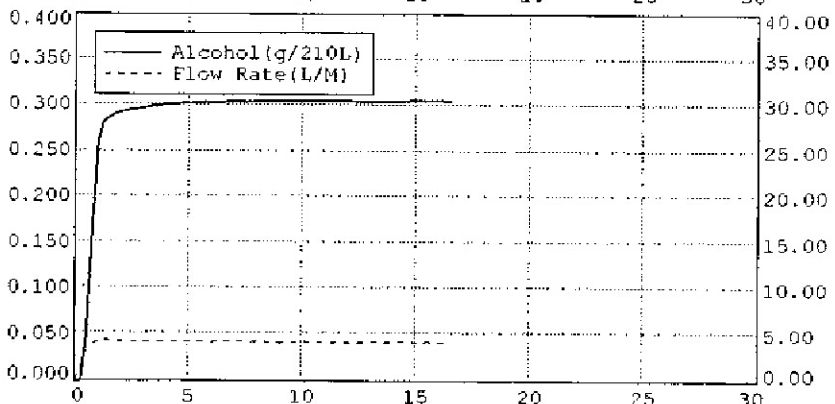
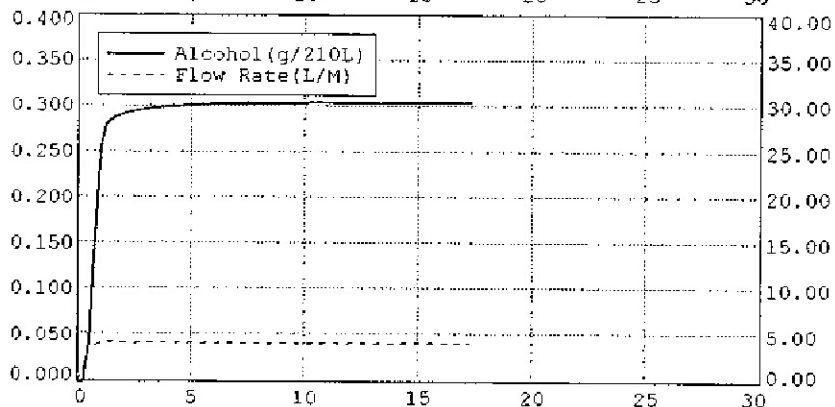
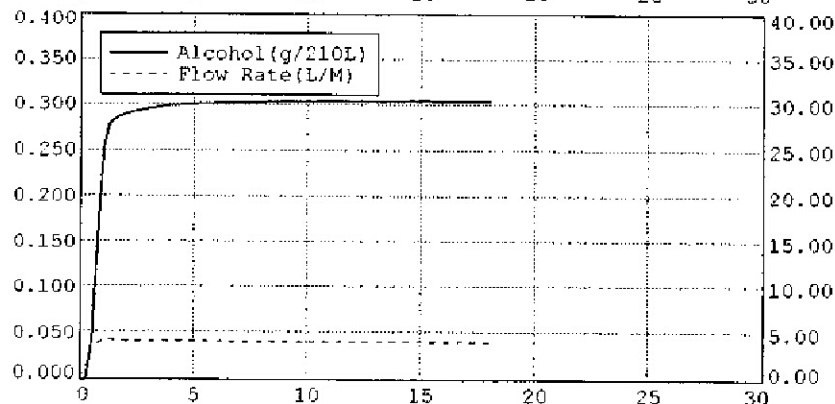
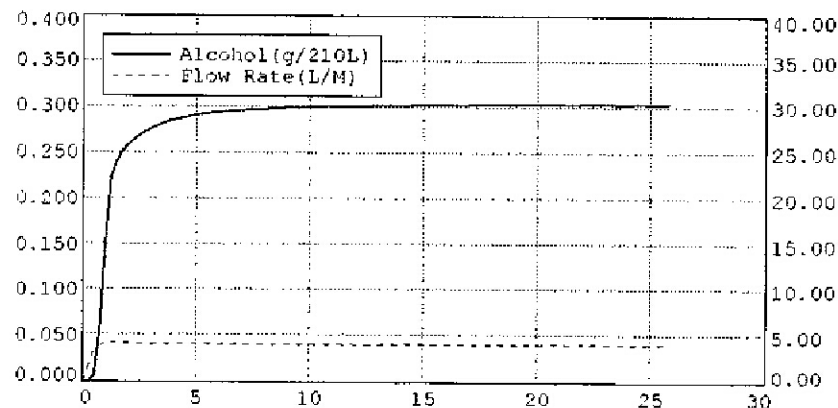
Date: 07/15/2013
Time: 14:55:40

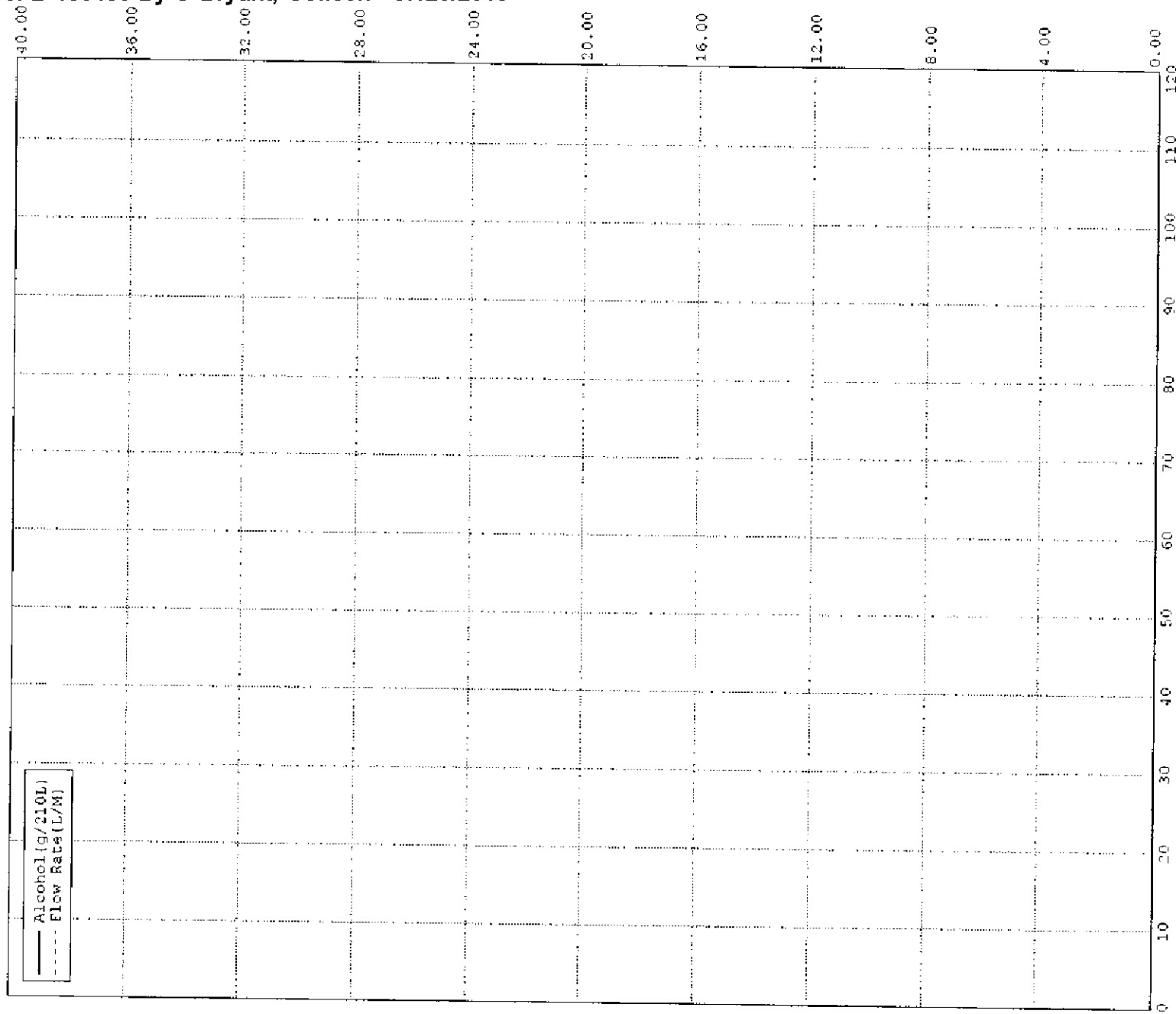
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.303	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.304	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.304	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.304	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.304	15:02
BLANK TEST	0.000	15:03

Average = 0.3042
Std Dev = 0.0003





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

Date: 07/17/2013
 Time: 07:44:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

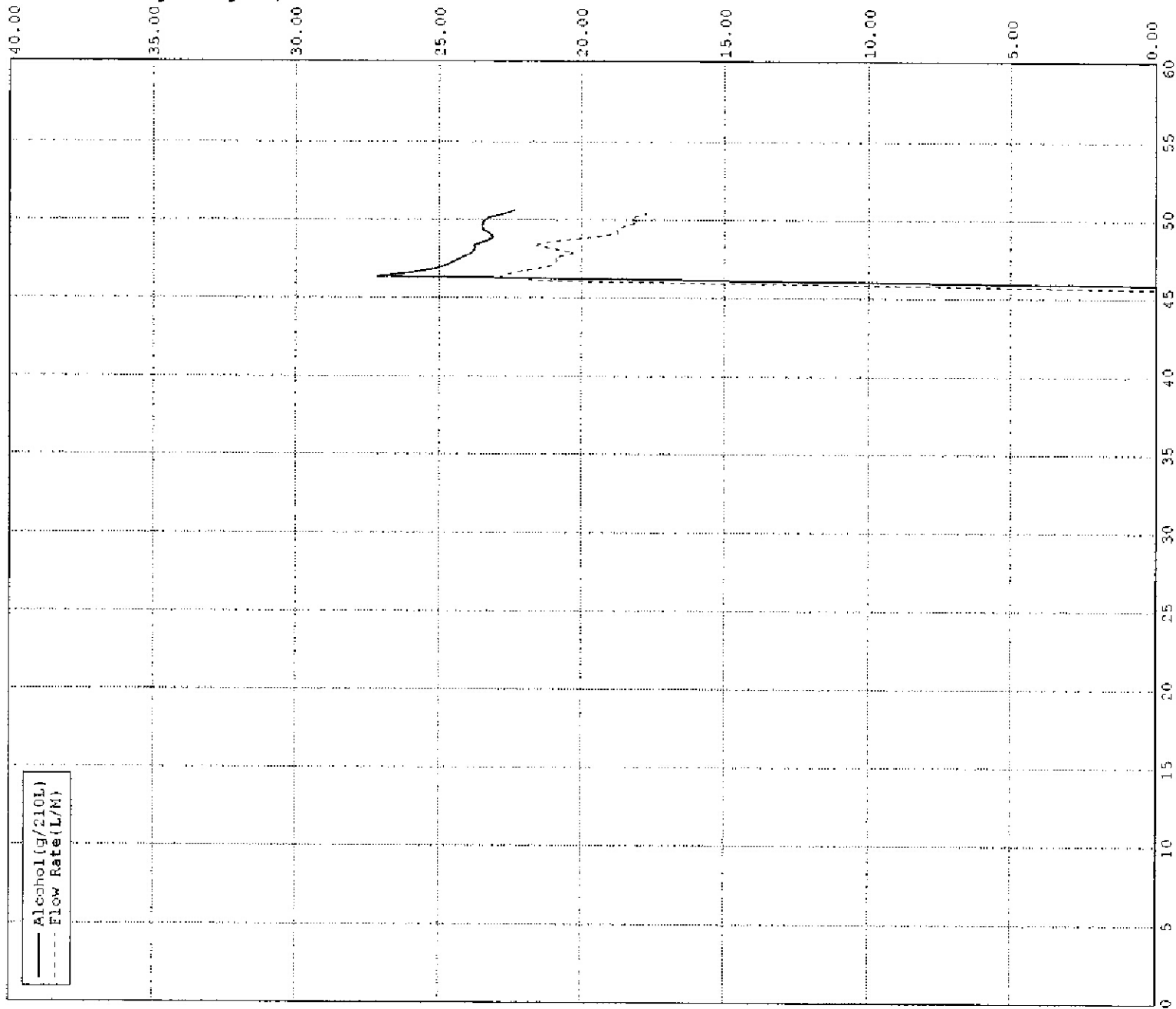
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:03
BLANK TEST	0.000	08:04
INTERNAL STANDARD	VERIFIED	08:04
EXTERNAL STANDARD	0.079	08:04
BLANK TEST	0.000	08:05
SUBJECT SAMPLE	INCOMPLETE	08:07



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/17/2013
Time: 08:10:18

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

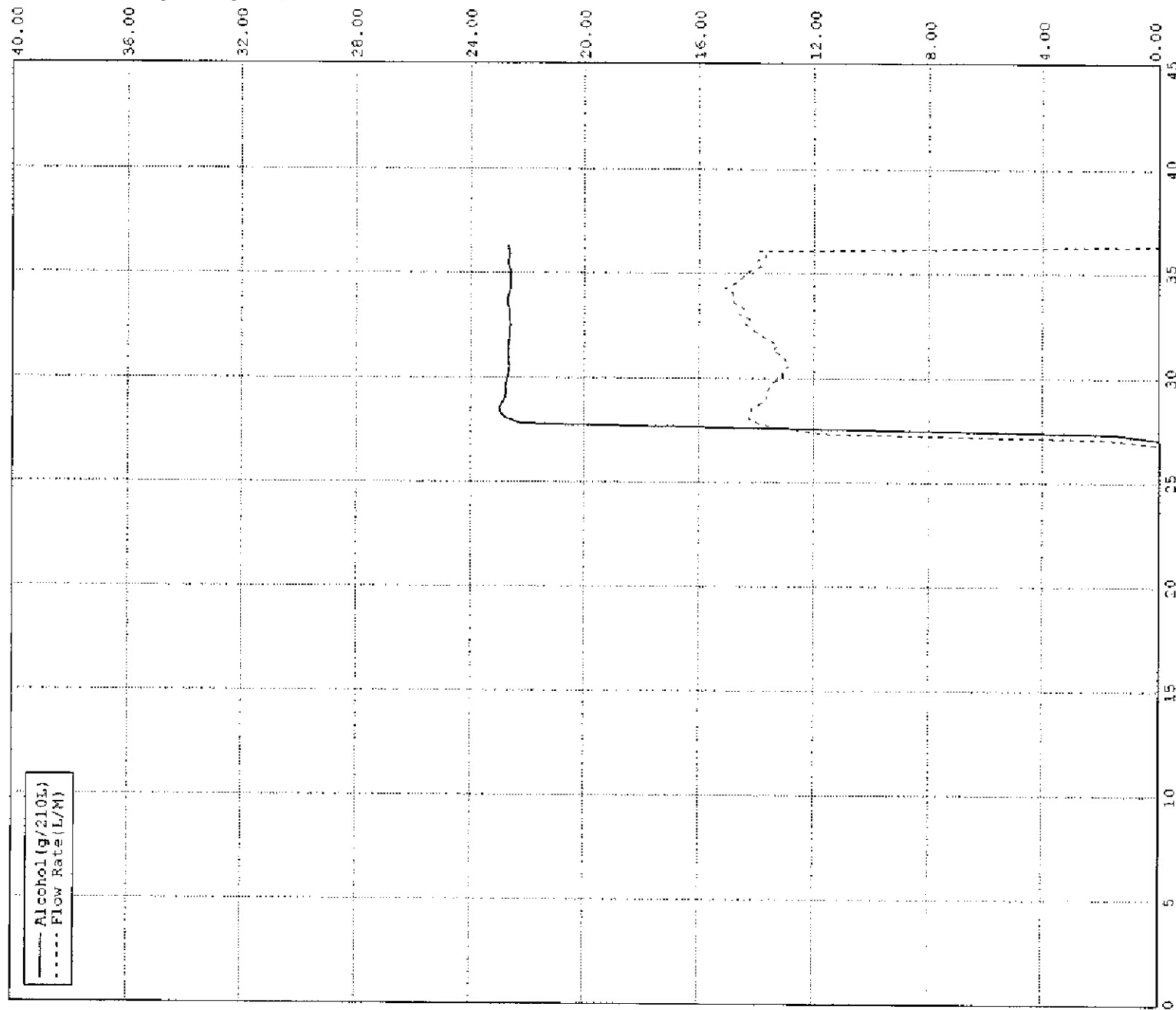
DEPT/AGENCY:
AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:12
INTERNAL STANDARD	VERIFIED	08:12
EXTERNAL STANDARD	0.080	08:12
BLANK TEST	0.000	08:13
SUBJECT SAMPLE	INVALID	08:15

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/17/2013
Time: 08:17:54

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

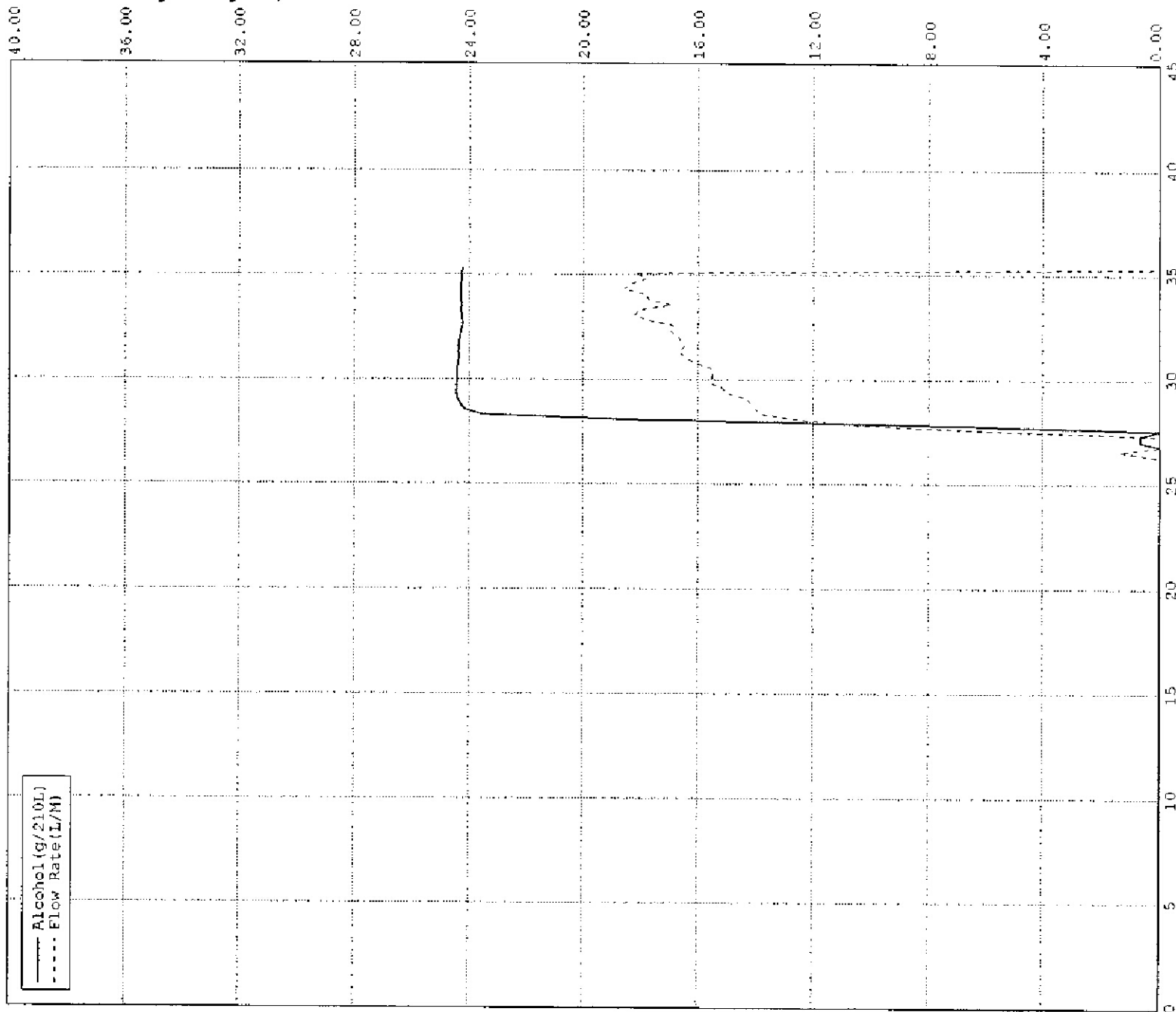
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:21
BLANK TEST	0.000	08:21
INTERNAL STANDARD	VERIFIED	08:21
Xq = 0.074 (0.23%)		
EXTERNAL STANDARD	0.079	08:21
X[1] = 0.0796 (0.0004) (0.0000)		
BLANK TEST	0.000	08:22
SUBJECT SAMPLE	INTERFERENCE	08:23
X[1] = 0.1131 (-0.0208) (0.0008)		

OB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100403

Date: 07/17/2013
 Time: 08:28:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:
 AAAA

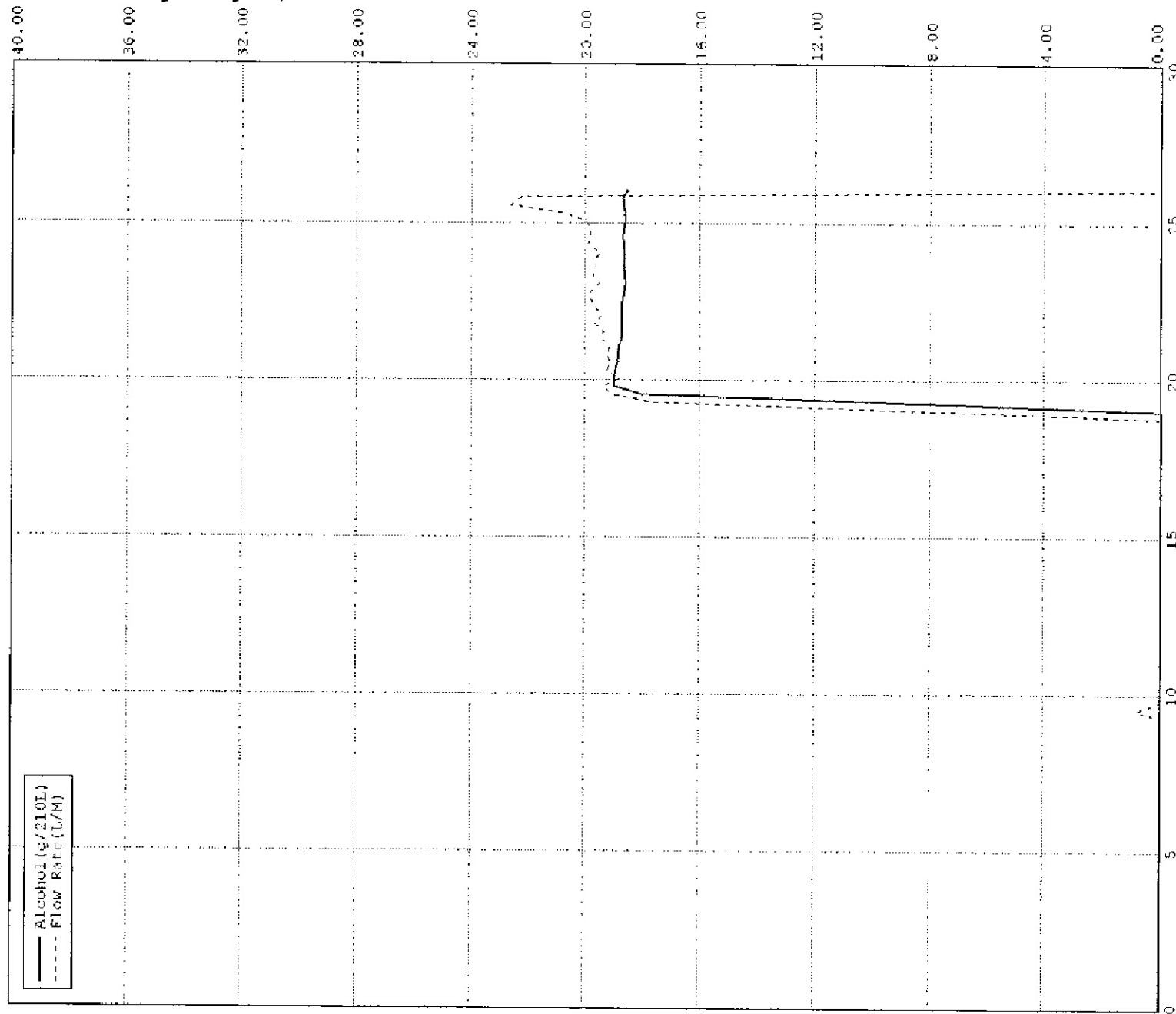
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.58: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:27
BLANK TEST	0.000	09:27
INTERNAL STANDARD	VERIFIED	09:27
XQ = 0.075 (0.93%)		
EXTERNAL STANDARD	0.080	09:27
X[1] = 0.0804 (0.0013)	(0.0006)	
BLANK TEST	0.000	09:28
SUBJECT SAMPLE	INTERFERENCE	09:29
X[1] = 0.1210 (-0.0156)	(0.0020)	

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

Date: 07/18/2013
 Time: 13:32:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG CONT

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

DEPT/AGENCY:
 AAAA

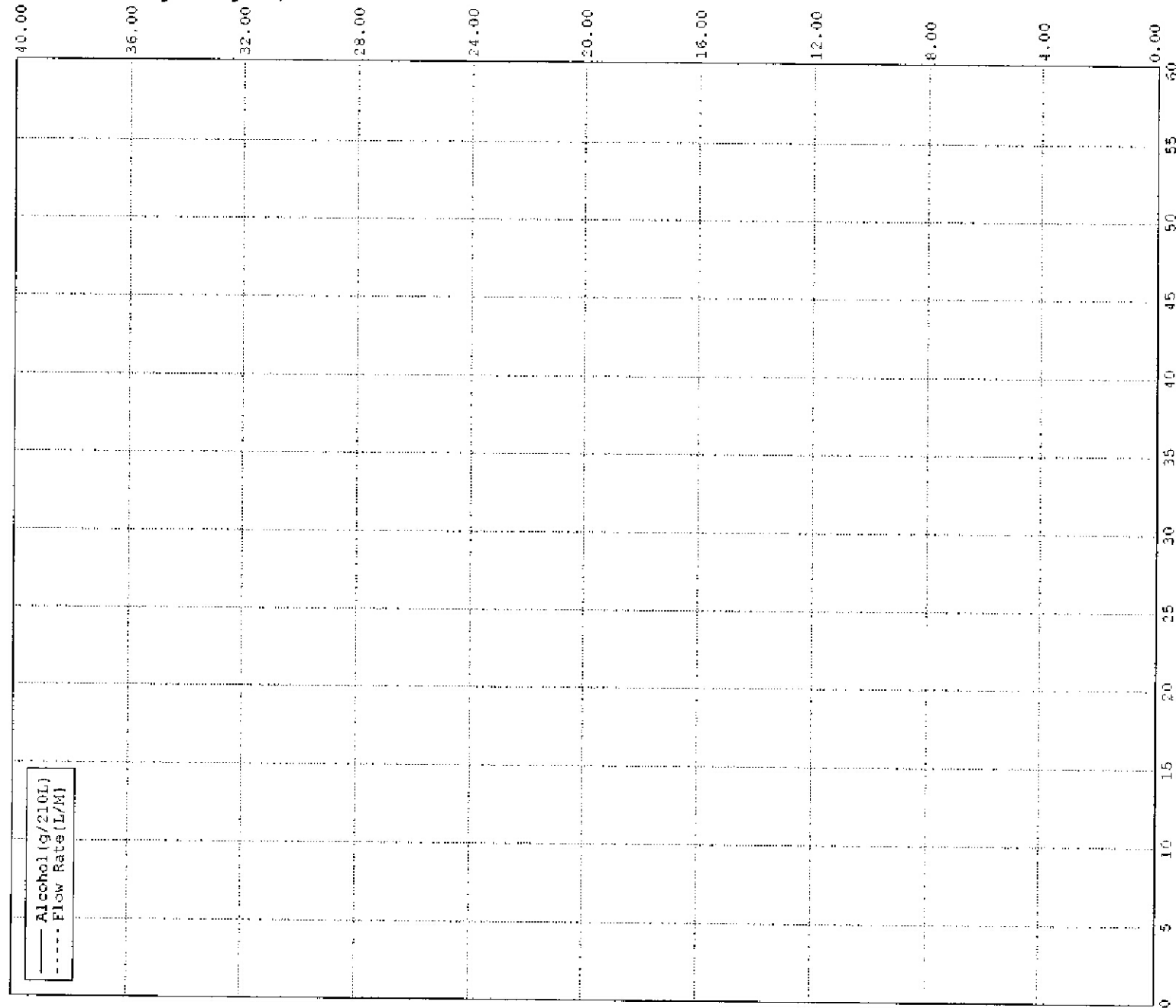
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
$X_g = 0.074$ (0.12%)		
EXTERNAL STANDARD	0.080	13:36
$X[1] = 0.0800$ (0.0000) (-0.0007)		
BLANK TEST	0.000	13:37
SUBJECT SAMPLE (Vol=2.25L)	0.092	13:38
$X[1] = 0.0926$ (0.0008) (-0.0009)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.079	13:39
$X[1] = 0.0798$ (0.0006) (-0.0009)		
BLANK TEST	0.000	13:40

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/18/2013
Time: 13:43:22

SUBJECT NAME:
TEST TEST
LICENSE #: REI

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

DEPT/AGENCY:
AAA1

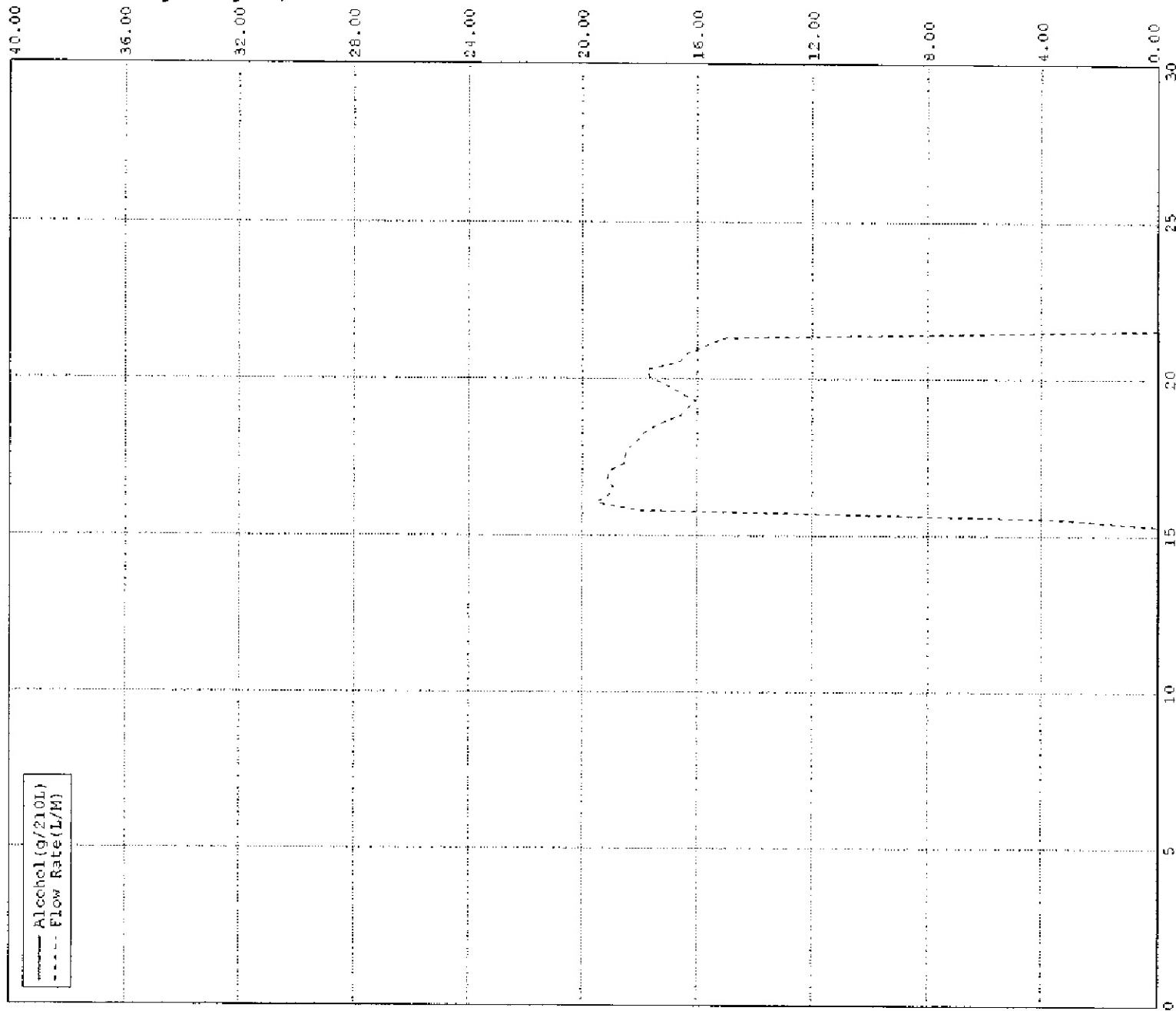
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:51
INTERNAL STANDARD VERIFIED 13:51
EXTERNAL STANDARD 0.080 13:51
BLANK TEST 0.000 13:52

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 07/18/2013
Time: 14:48:26

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 29.59: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	14:49
INTERNAL STANDARD	0.079	14:50
EXTERNAL STANDARD	0.000	14:50
BLANK TEST	0.000	14:51
SUBJECT SAMPLE	0.000	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.080	14:52
BLANK TEST	0.000	14:53

CDB

Final page for report

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7/9/2014