

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100352 Analyst Colleen O'Bryant Start Date 9/23/13
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 03/01/2015ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2015iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015v. 0.200g/210L Mnf Guth Lot 12120 Exp 08/10/20141. Simulator S/N SD1198 Date Calibrated 01/23/2013vi. 0.300g/210L Mnf Guth Lot 13080 Exp 03/19/20151. Simulator S/N SD1088 Date Calibrated 01/23/2013

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 13010 Level 0.10 Exp 01/09/20151. Simulator S/N DR5298 Date Calibrated 10/08/2012ii. Isopropanol - Mnf Guth Lot 13010 Level 0.10 Exp 01/09/20151. Simulator S/N SD1202 Date Calibrated 10/09/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/04/20131. Simulator S/N SD1199 Date Calibrated 01/23/2013d. 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

9/23/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/23/2013
Time: 09:20:49

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO	
Flow Rate = 4.807 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

DATAMASTER dmt: 100352

Date: 09/23/2013

Time: 9:39 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 48.0°C

Current Barometer 28.8 in

Volume (Ltr) 1.46

Settings

Lamp: 1.75 V

Bias: 80 V

Cooler: 1.74 V

Chopper: 548 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.044 V

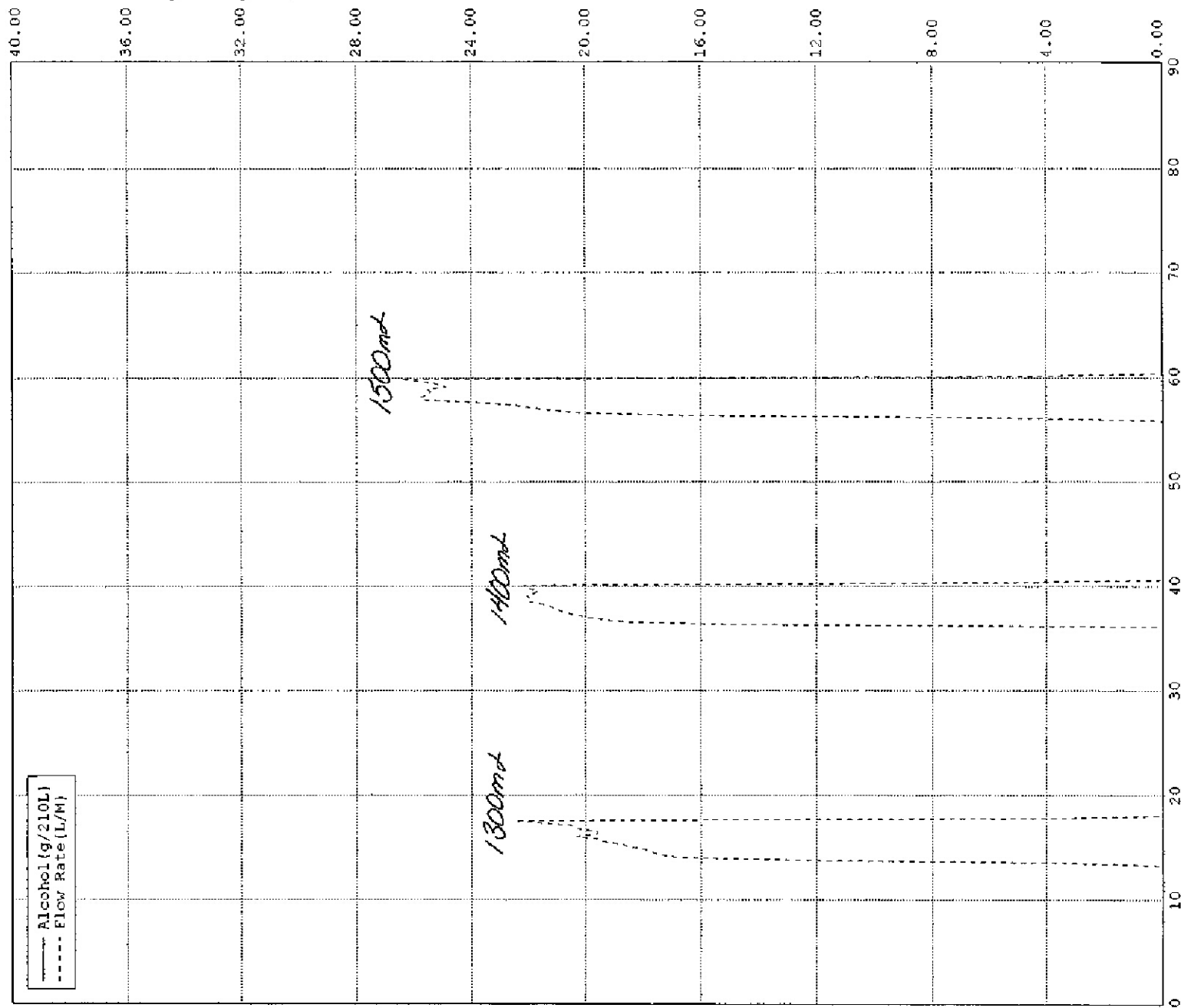
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/11/2012
Time: 14:15:32

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.970902 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0058 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0889 0.0500 <= Xq < 0.2000
a21 = 1.137079 1.050 <= a21 < 1.300
a31 = 0.441688 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER cmt: 100352

Date: 09/23/2013
Time: 10:28:24

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

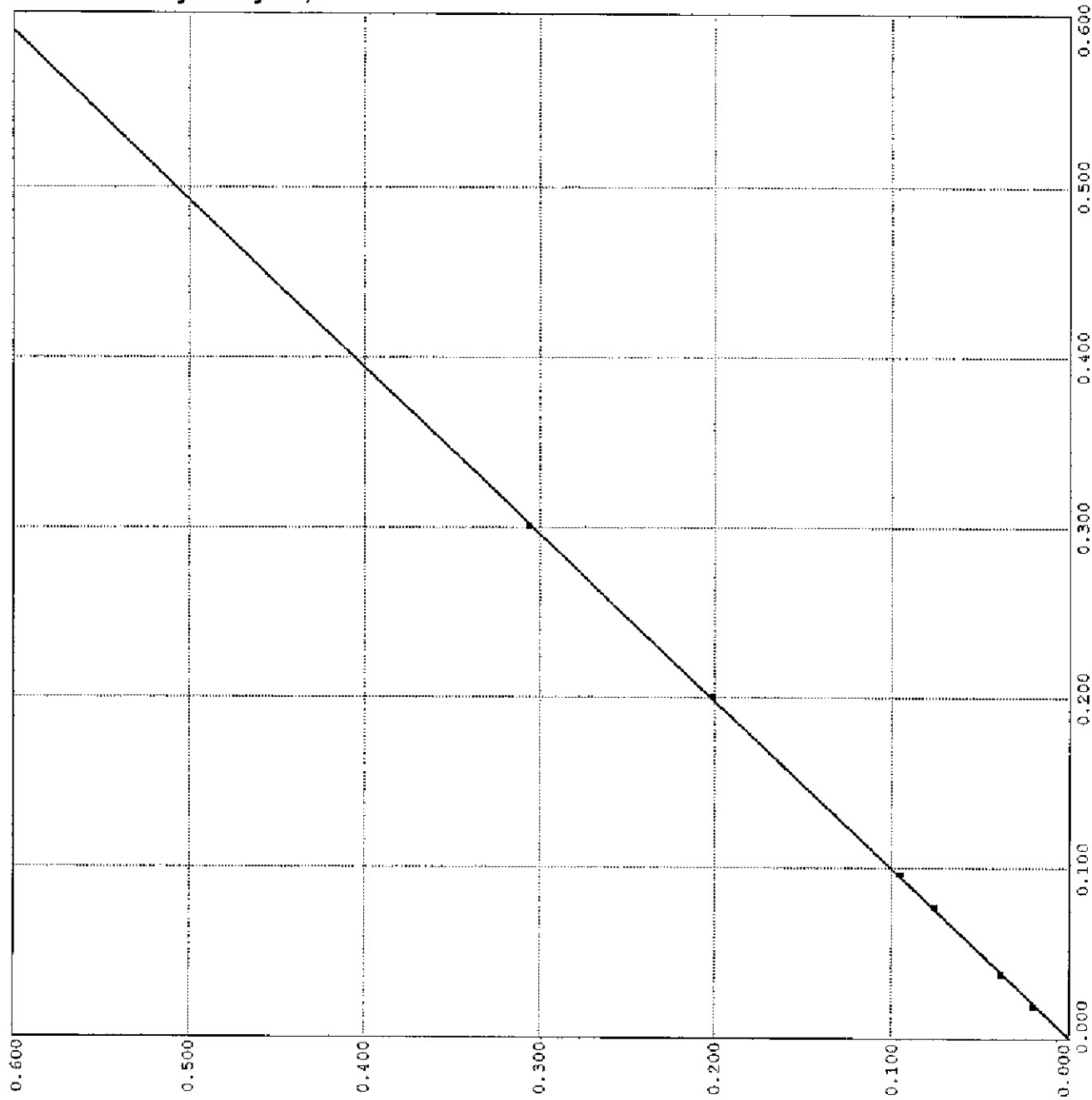
NOMINAL: 0.080

TARGET AT 28.80: 0.077

LOT #: 0201100804 02012010A/
EXPIRATION: 03/01/2014 02012013

DIAGNOSTIC CHECK	PASSED	10:29
BLANK TEST	0.000	10:29
INTERNAL STANDARD	VERIFIED	10:29
EXTERNAL STANDARD	0.076	10:30
BLANK TEST	0.000	10:31
SUBJECT SAMPLE	0.000	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.076	10:33
BLANK TEST	0.000	10:34

(AB)



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/23/2013
 Time: 10:47:01

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0003
0.038	0.0396	0.0002
0.077	0.0766	0.0002
0.096	0.0963	0.0005
0.200	0.2018	0.0004
0.300	0.3070	0.0005

SLOPE = 1.018379
 R² = 0.999761

CRB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100352

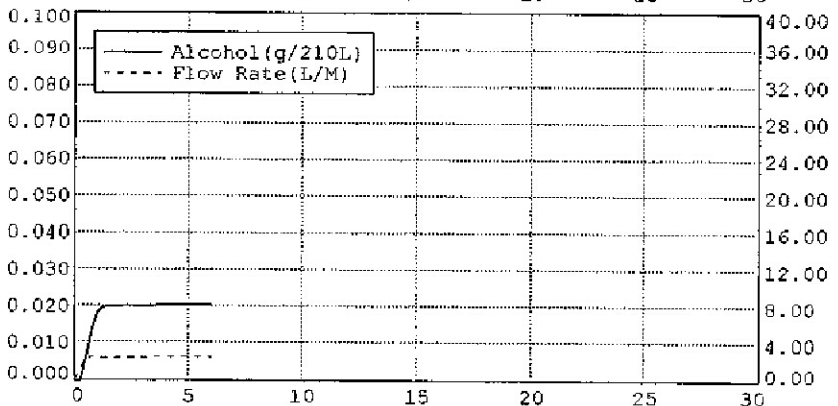
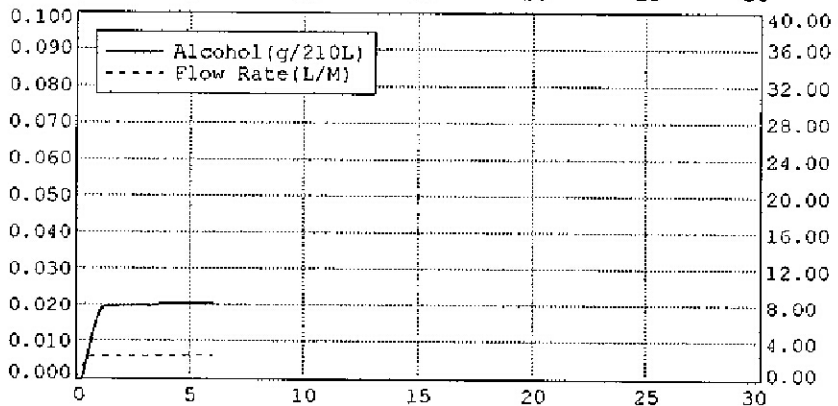
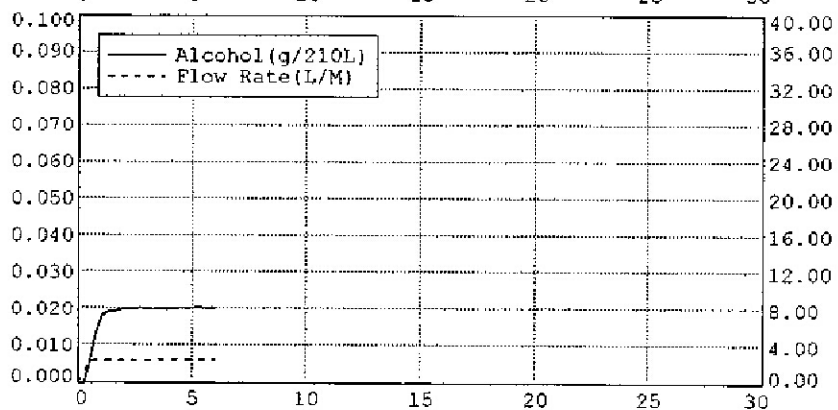
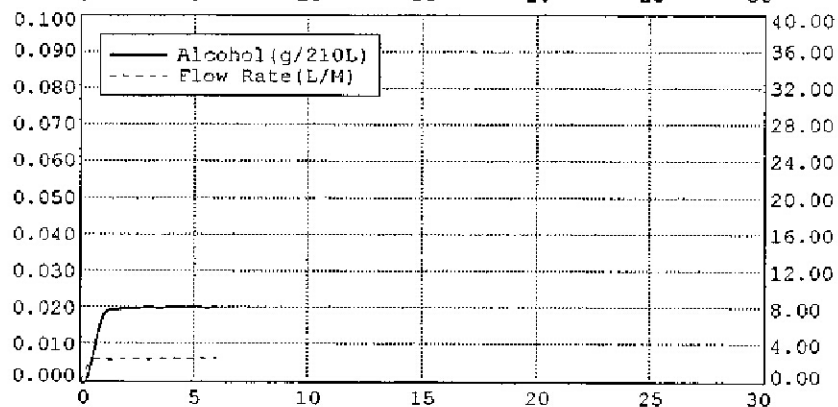
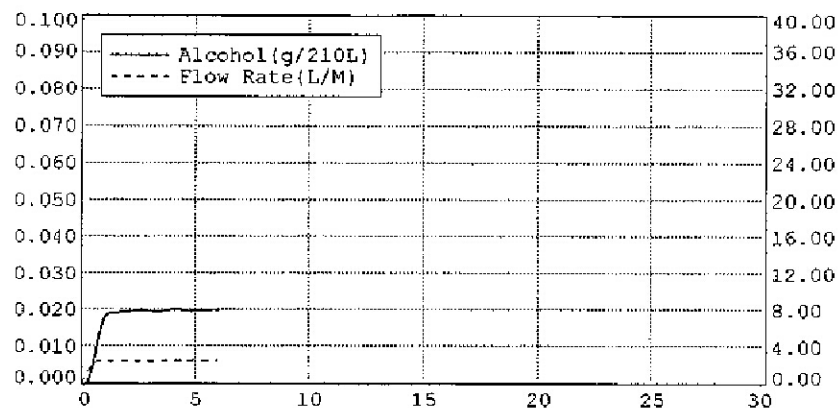
Date: 09/23/2013
Time: 10:47:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.81: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.020	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.020	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.021	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.021	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.021	10:58
BLANK TEST	0.000	10:59

Average = 0.0209
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dnt: 100352

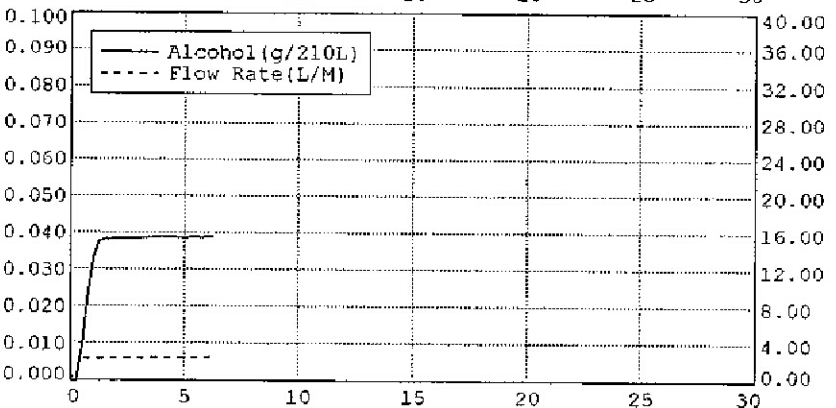
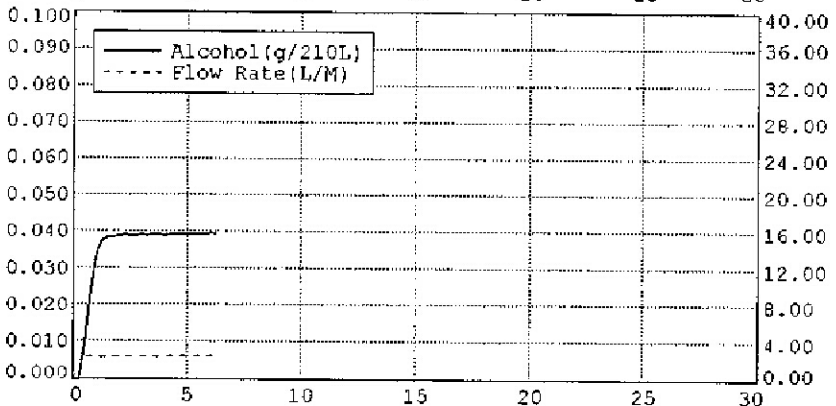
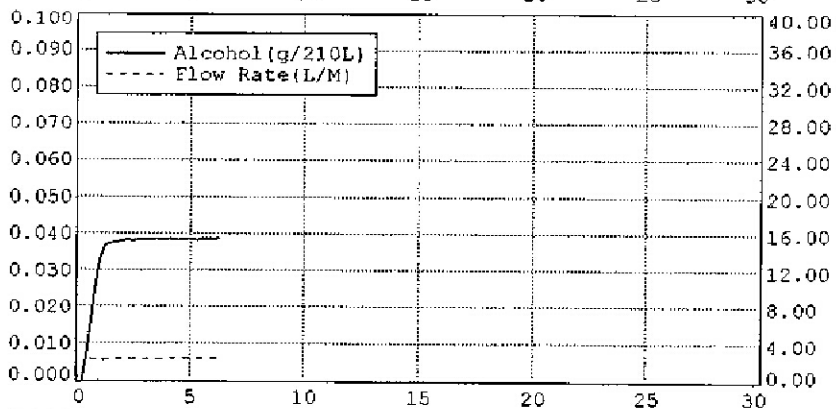
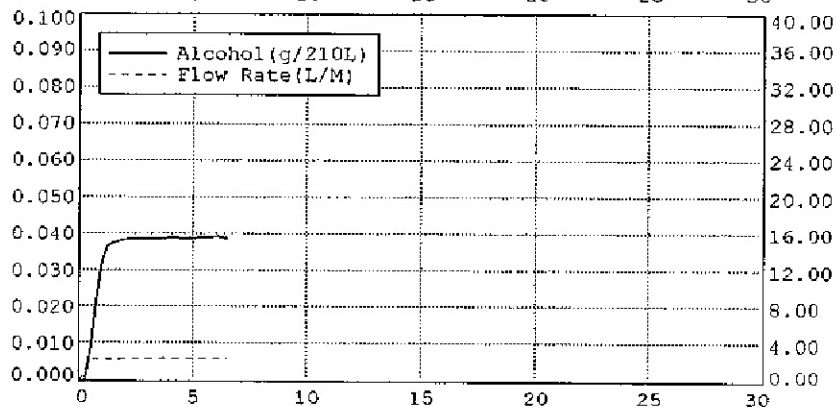
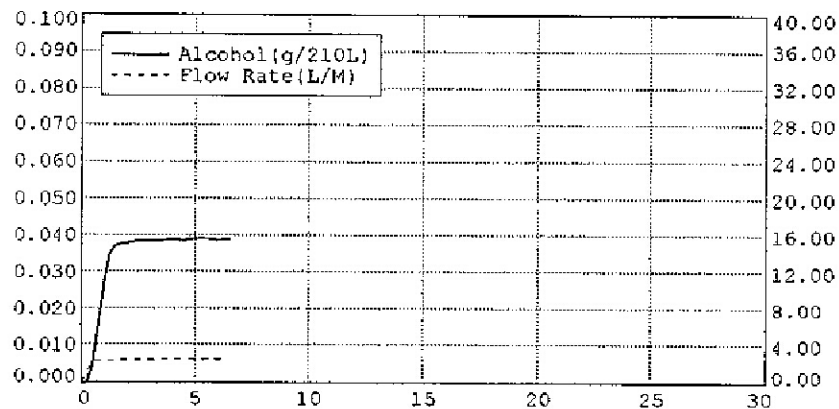
Date: 09/23/2013
Time: 11:00:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 28.81: 0.038
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.039	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.039	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.039	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.039	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.039	11:07
BLANK TEST	0.000	11:07

Average = 0.0396
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100352

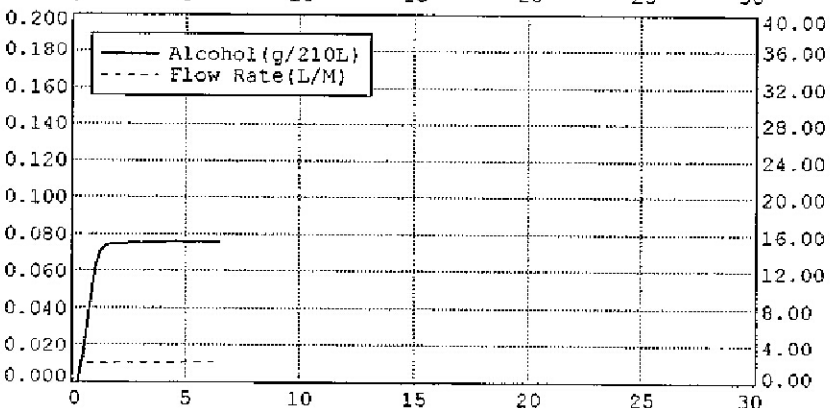
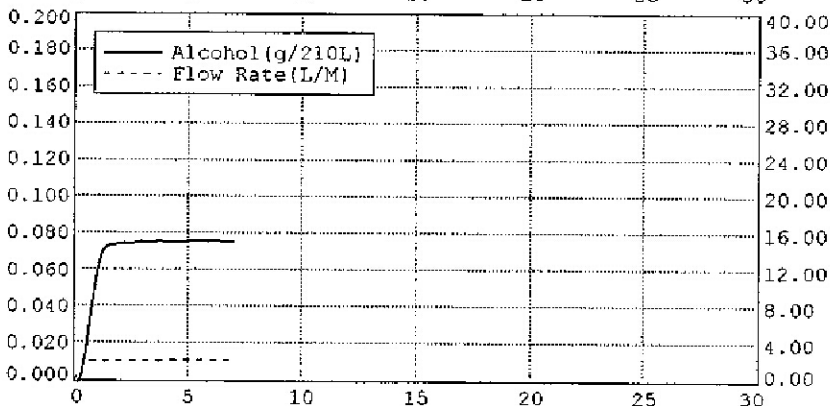
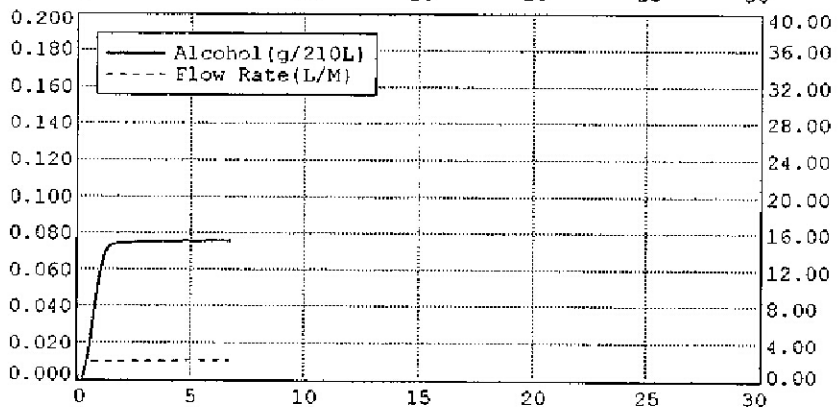
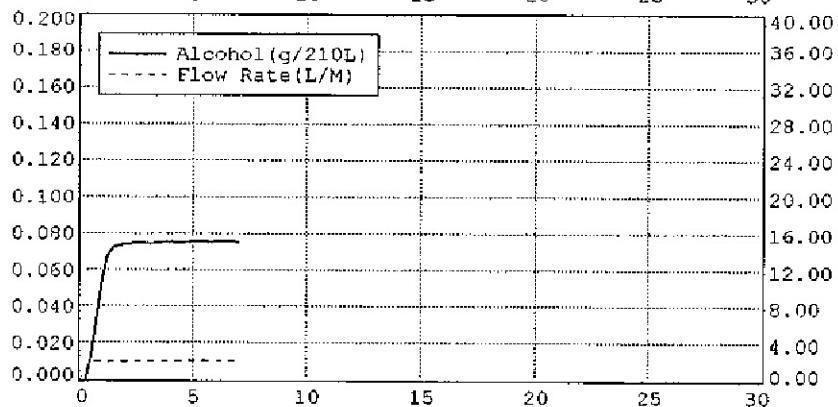
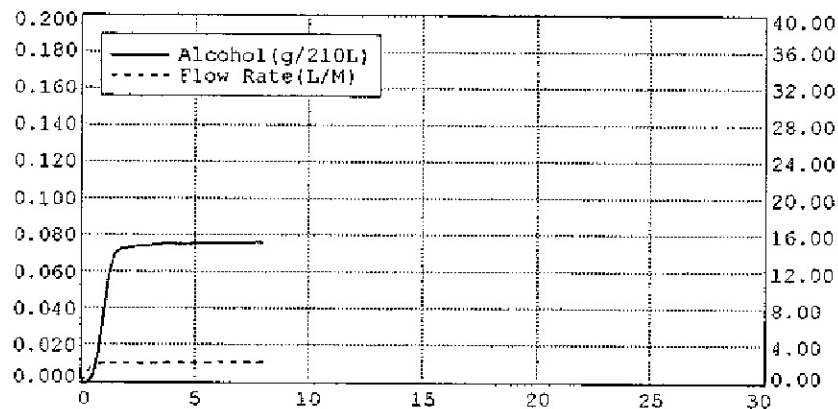
Date: 09/23/2013
Time: 12:15:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.85: 0.077
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.076	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.076	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.076	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.076	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.076	12:22
BLANK TEST	0.000	12:23

Average = 0.0766
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100352

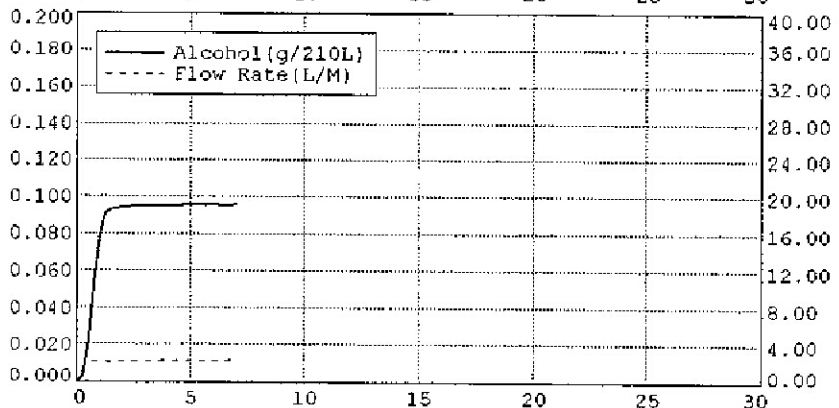
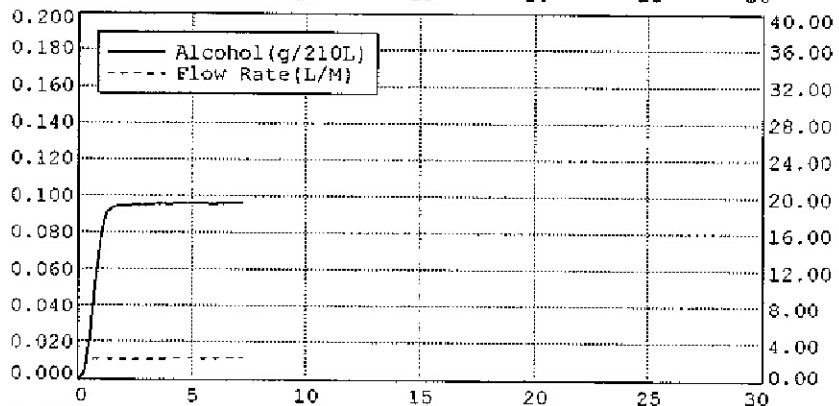
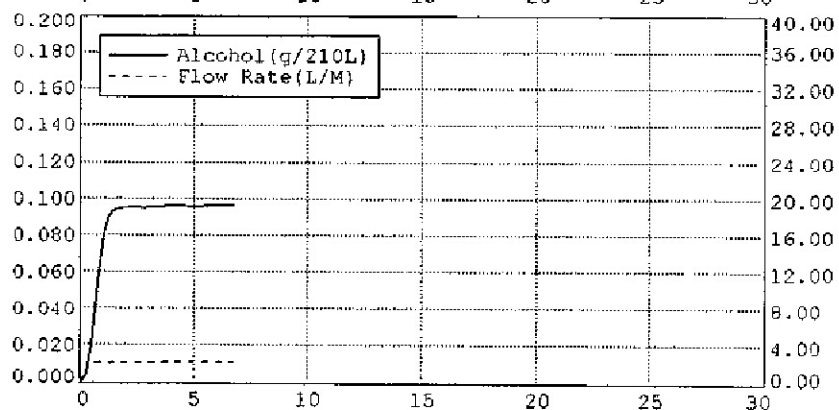
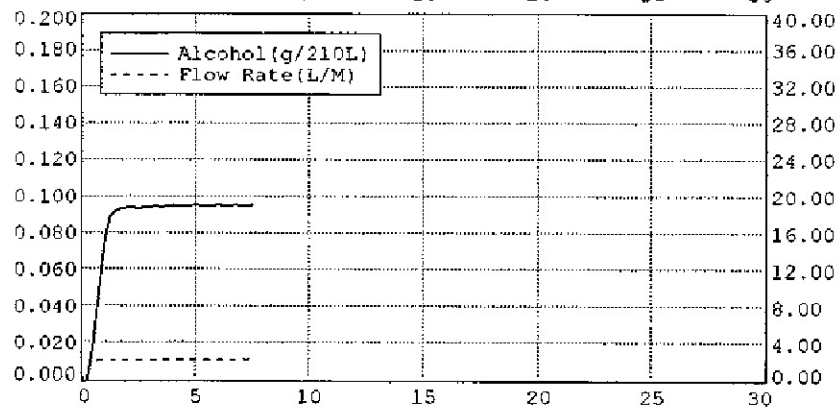
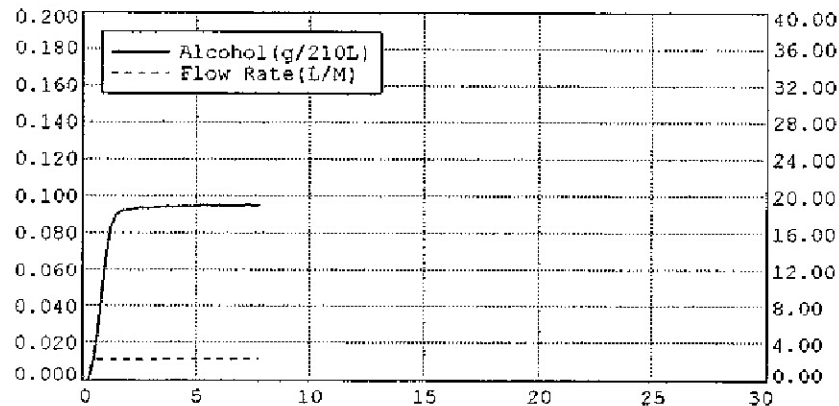
Date: 09/23/2013
Time: 12:27:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 28.85: 0.096
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	12:28
INTERNAL STANDARD	VERIFIED	12:29
EXTERNAL STANDARD	0.095	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.095	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.096	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.096	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.096	12:33
BLANK TEST	0.000	12:34

Average = 0.0963
Std Dev = 0.0006



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/23/2013
Time: 12:35:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

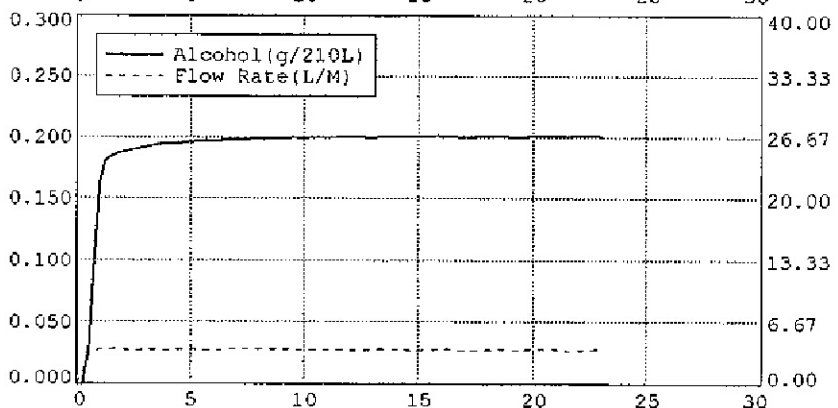
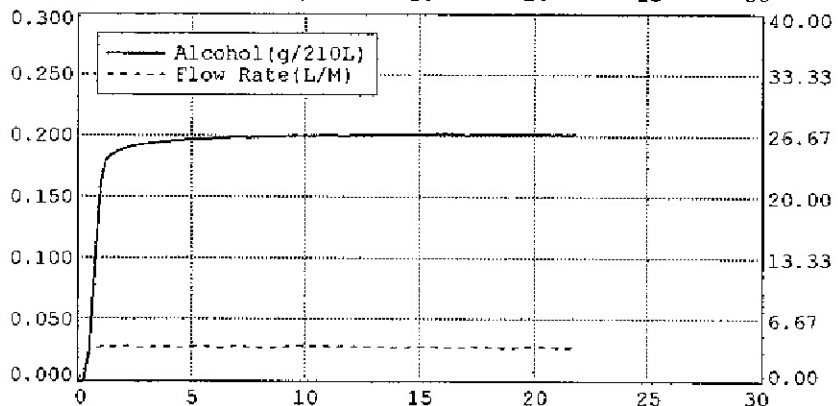
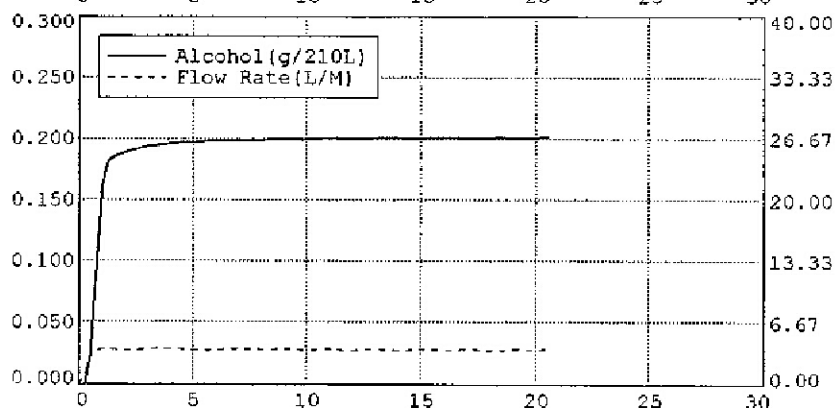
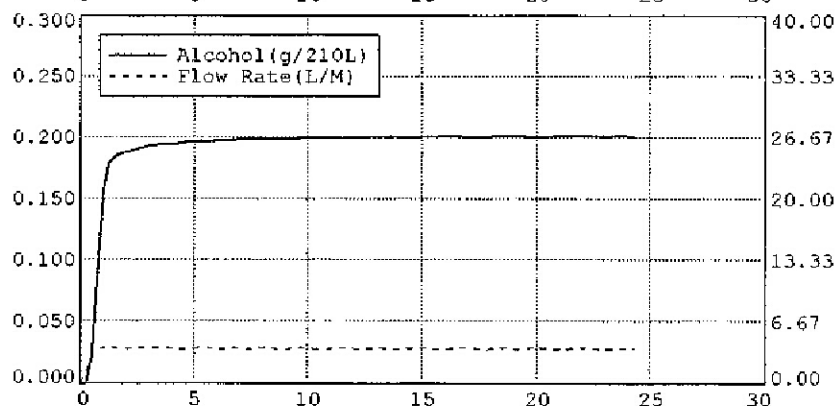
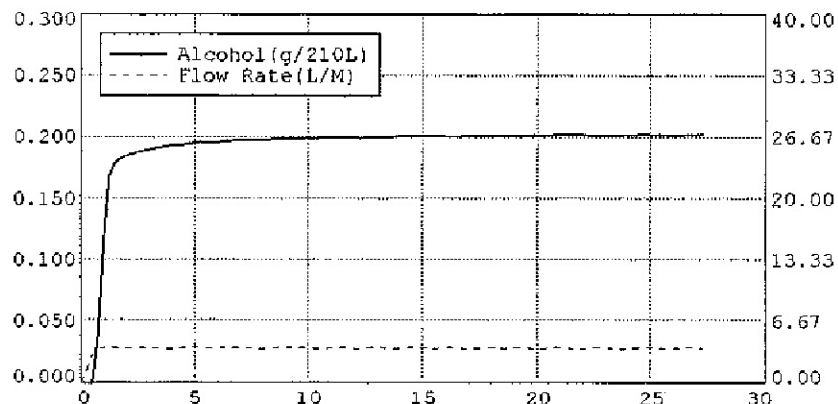
LOT #: 12120

EXPIRATION: 08/10/2014

BLANK TEST	0.000	12:37
INTERNAL STANDARD	VERIFIED	12:37
EXTERNAL STANDARD	0.202	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.202	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.201	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.201	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.201	12:43
BLANK TEST	0.000	12:44

Average = 0.2018

Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100352

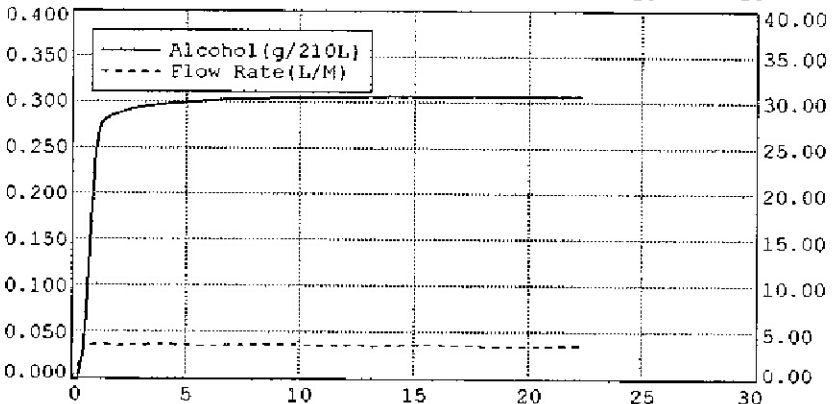
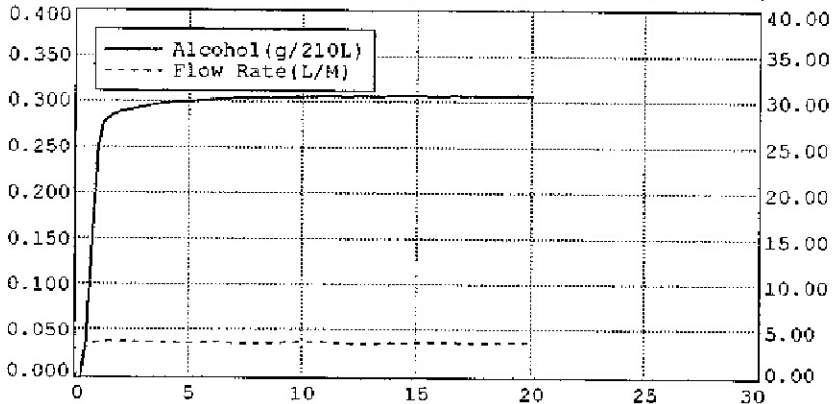
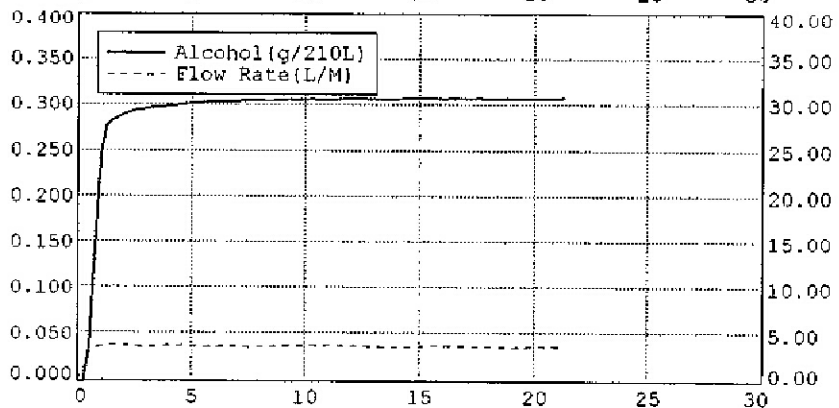
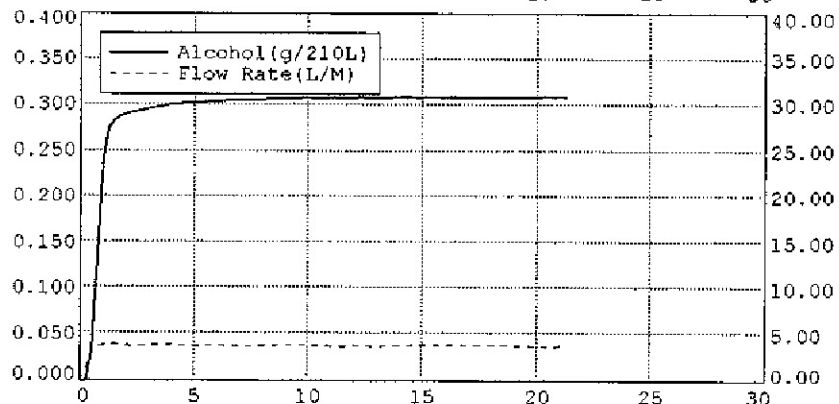
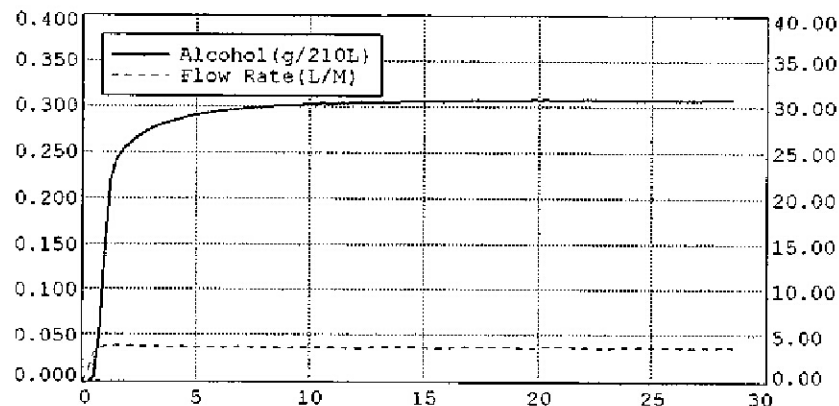
Date: 09/23/2013
Time: 12:46:55

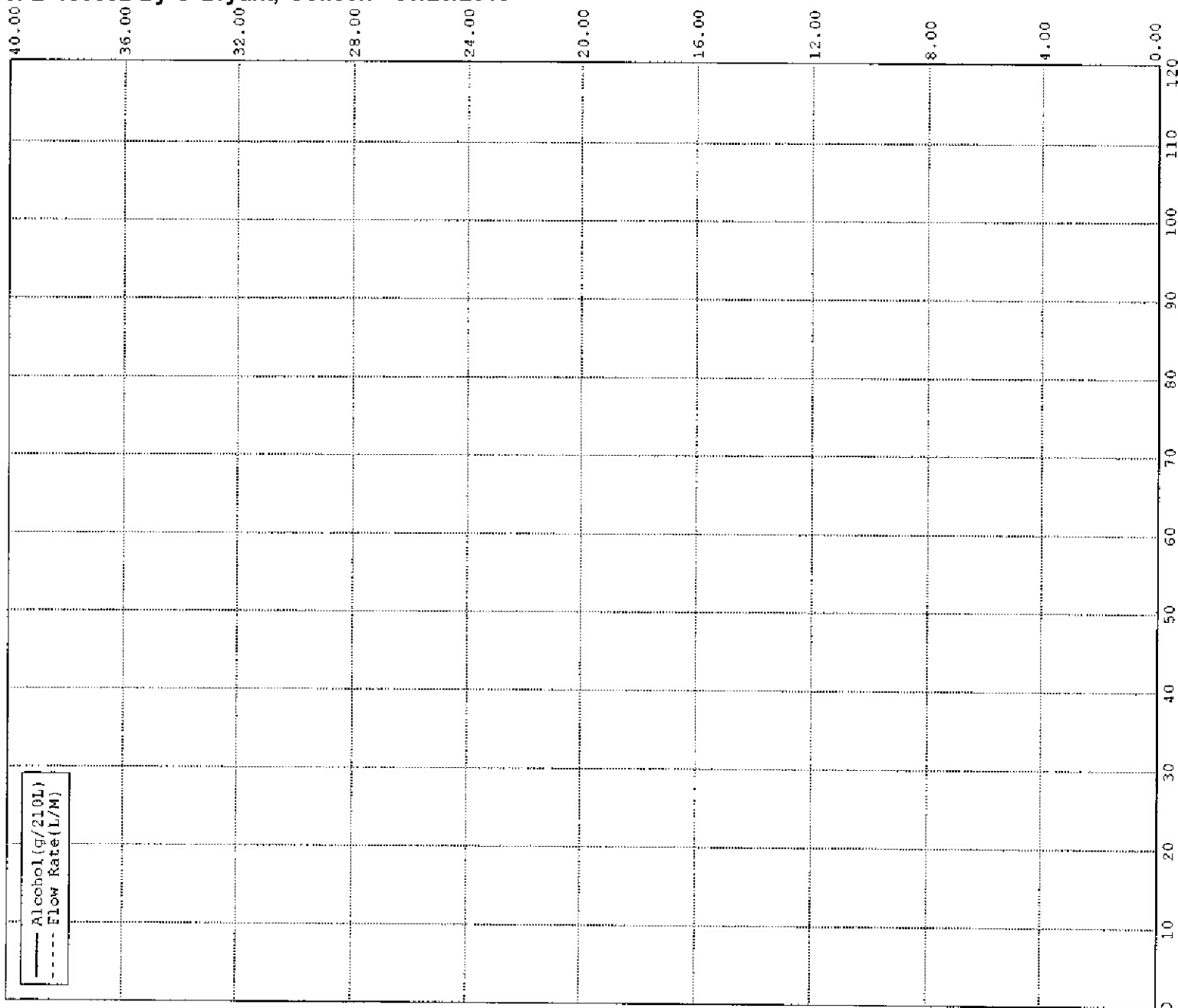
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.307	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.307	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.307	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.306	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.306	12:54
BLANK TEST	0.000	12:55

Average = 0.3070
Std Dev = 0.0005





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/23/2013
Time: 13:07:35

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

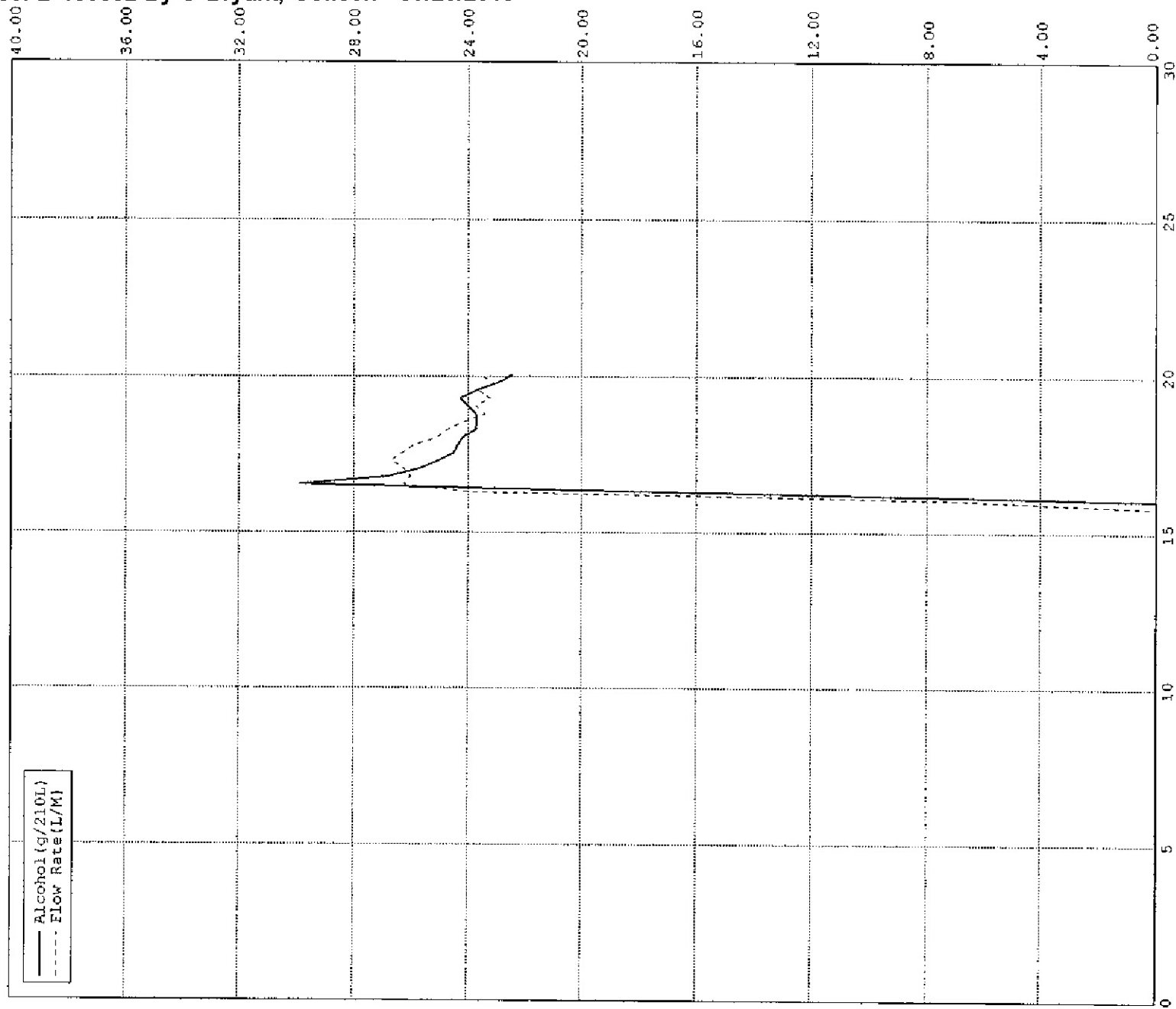
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.86: 0.077
LOT #: 020112000A1 C00012000A1
EXPIRATION: 03/01/2014 C00012000A1

DIAGNOSTIC CHECK	PASSED	13:10
BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.076	13:11
BLANK TEST	0.000	13:12
SUBJECT SAMPLE	INCOMPLETE	13:14

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/23/2013
 Time: 13:18:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

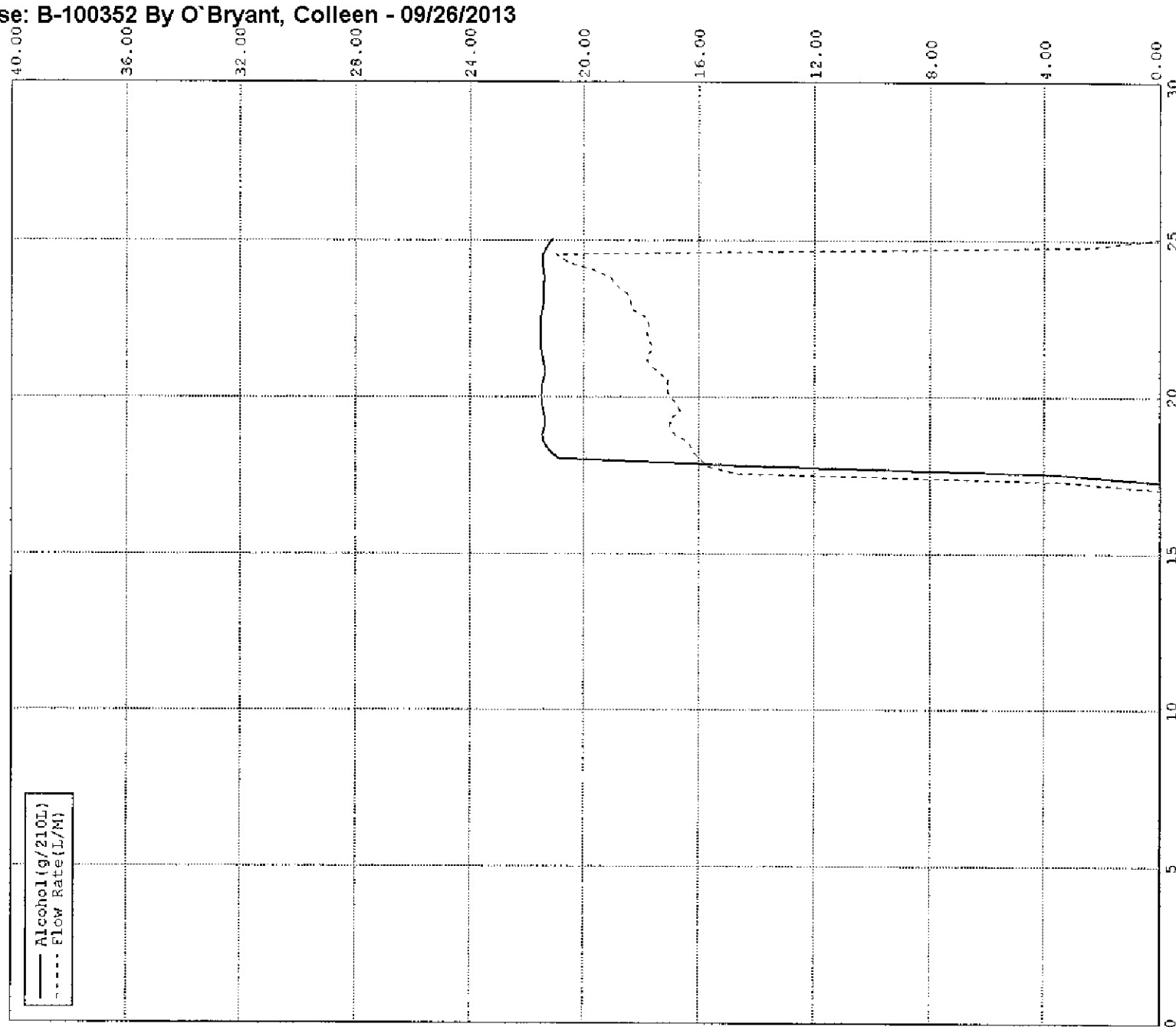
DEPT/AGENCY:
 AAAA
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: ~~620112000~~ 09012000A1
 EXPIRATION: 03/01/2014 008 7/20/13

DIAGNOSTIC CHECK	PASSED	13:19
BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.075	13:19
BLANK TEST	0.000	13:20
SUBJECT SAMPLE	INVALID	13:21

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/23/2013
Time: 13:35:21

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

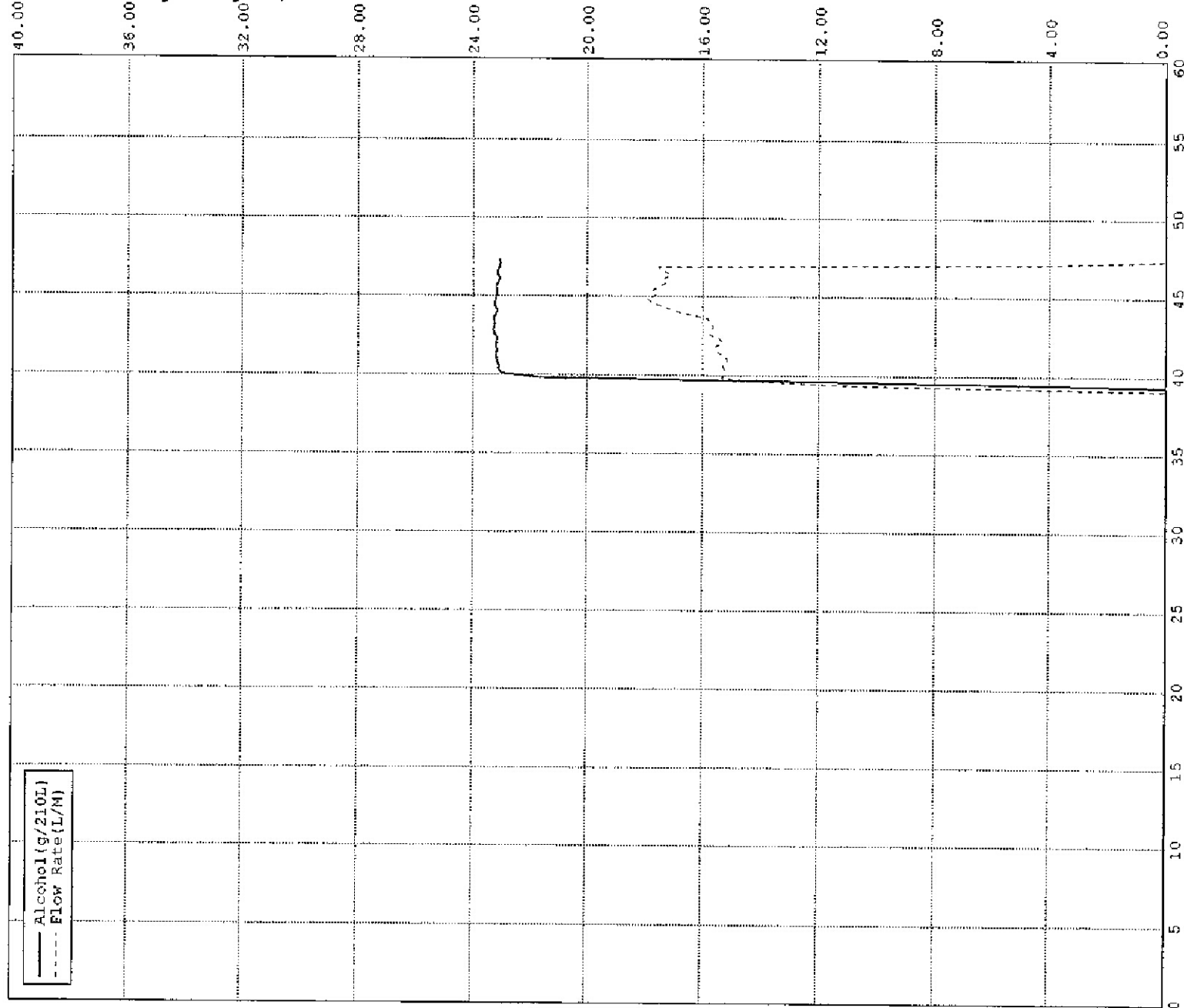
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.86: 0.077
LOT #: 02011200001 09012080A1
EXPIRATION: 03/01/2014 008946/13

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
$X_C = 0.090$ (0.98%)		
EXTERNAL STANDARD	0.077	13:37
$X[1] = 0.0770$ (-0.0007) (0.0025)		
BLANK TEST	0.000	13:38
SUBJECT SAMPLE	INTERFERENCE	13:38
$X[1] = 0.1056$ (-0.0150) (0.0021)		

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/23/2013
 Time: 13:42:22

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 28.86: 0.077

LOT #: 020112000001 020(2080A)

EXPIRATION: 03/01/2014 008%06/13

DIAGNOSTIC CHECK PASSED 13:44

BLANK TEST 0.000 13:44

INTERNAL STANDARD VERIFIED 13:44

 $X_q = 0.089$ (0.10%)

EXTERNAL STANDARD 0.076 13:44

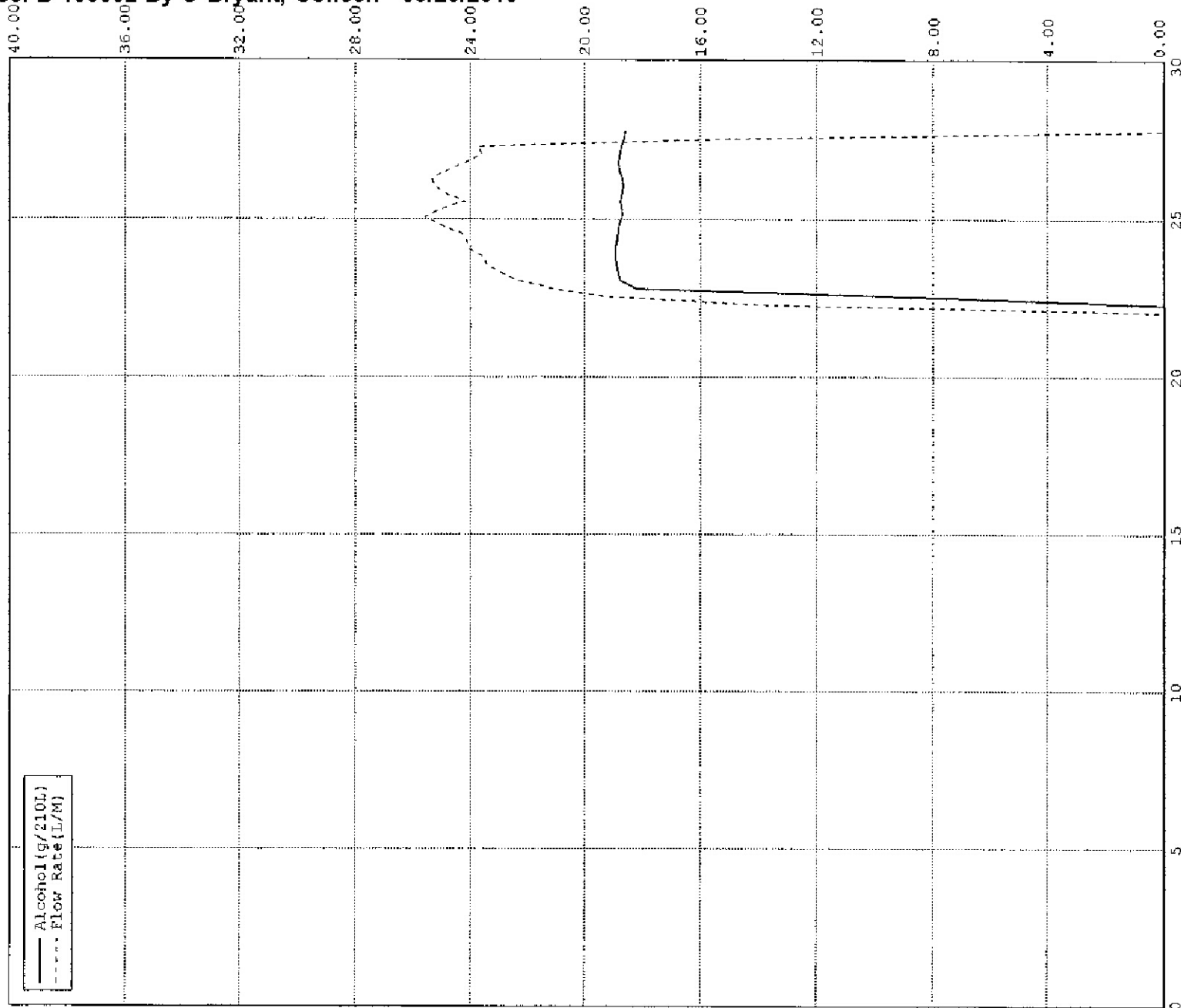
 $X[1] = 0.0765$ (-0.0014) (0.0013)

BLANK TEST 0.000 13:45

SUBJECT SAMPLE INTERFERENCE

 $X[1] = 0.1151$ (-0.0226) (0.0018)

— Alcohol(g/210L)
 --- Flow Rate(L/M)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/23/2013
 Time: 13:54:09

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

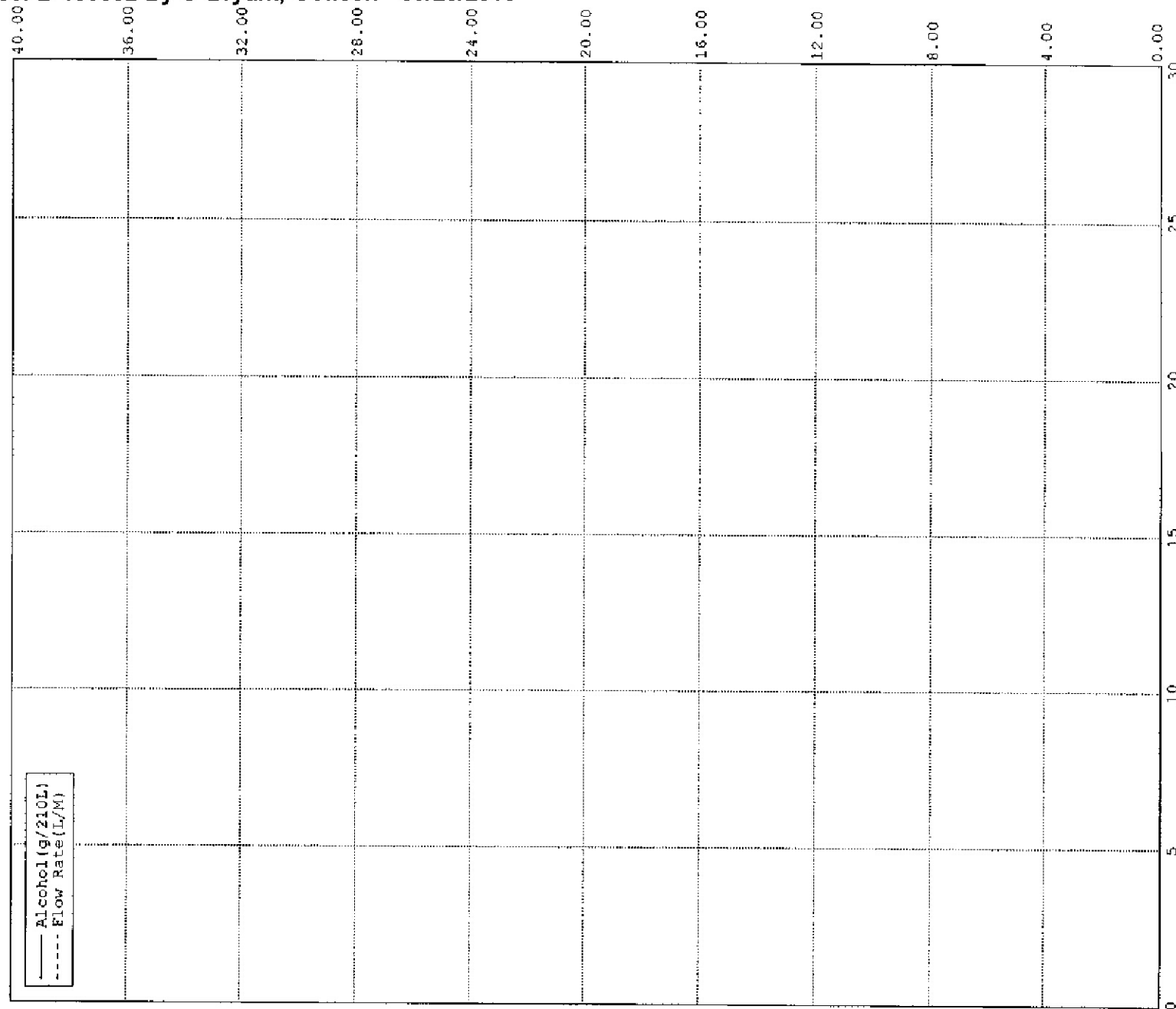
TARGET AT 28.86: 0.077

LOT #: 0301120801-030120041

EXPIRATION: 03/01/2014 089/20/13

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
$X_C = 0.090$ (0.79%)		
EXTERNAL STANDARD	0.076	13:56
$X[1] = 0.0769$ (-0.0017) (0.0006)		
BLANK TEST	0.000	13:57
SUBJECT SAMPLE (Vol=2.11L)	0.093	13:57
$X[1] = 0.0930$ (0.0009) (0.0004)		
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.076	13:59
$X[1] = 0.0765$ (-0.0018) (0.0005)		
BLANK TEST	0.000	14:00

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100352

Date: 09/23/2013
Time: 14:04:05

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

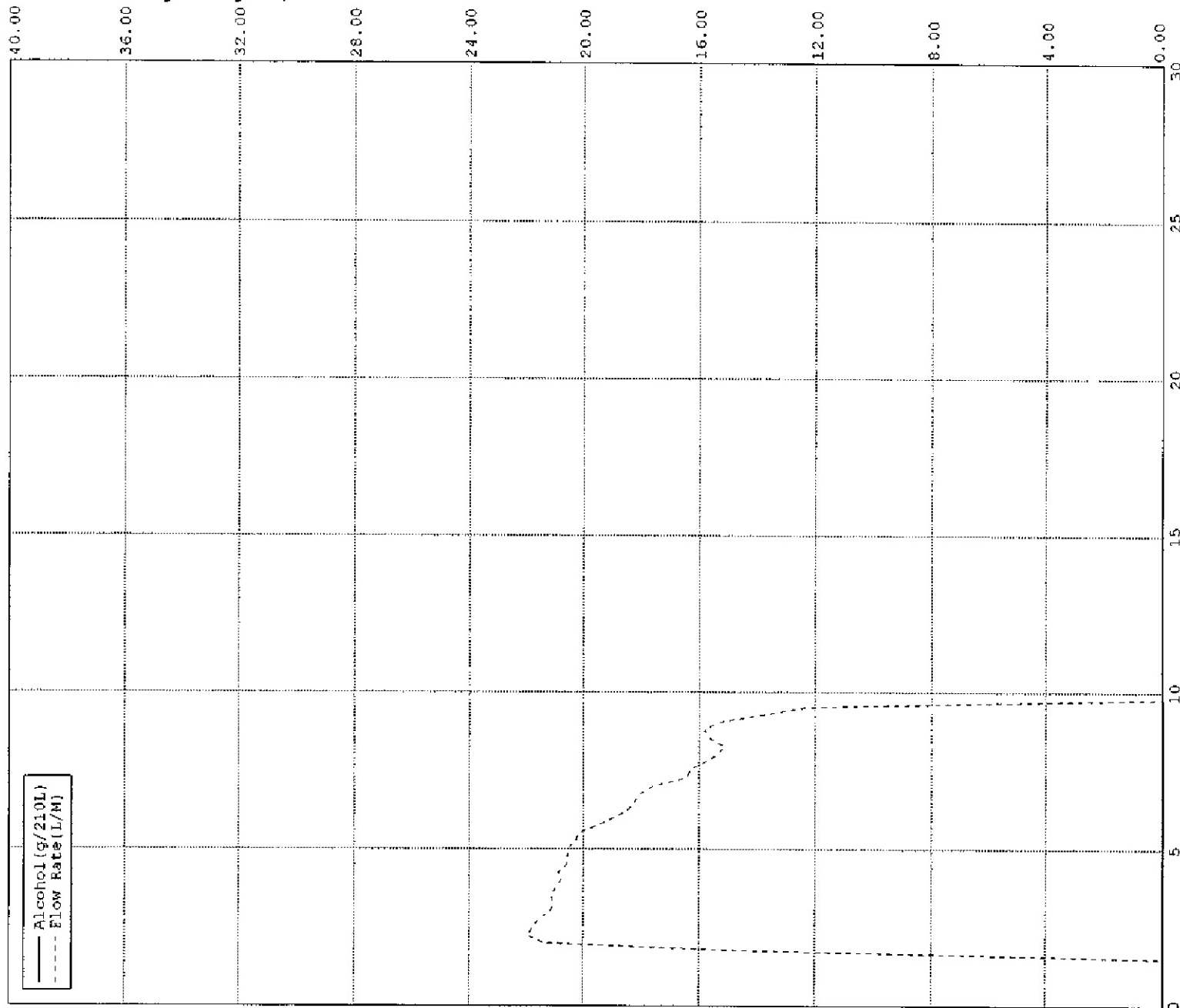
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.87: 0.077
LOT #: 02614208027 090108091
EXPIRATION: 03/01/2014 08/10/13

DIAGNOSTIC CHECK PASSED 14:05
BLANK TEST 0.000 14:05
INTERNAL STANDARD VERIFIED 14:05
EXTERNAL STANDARD 0.077 14:05
BLANK TEST 0.000 14:06

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER gmt: 100352

Date: 09/23/2013
 Time: 14:19:45

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 28.87: 0.077

LOT #: 02011200001 09012000A/

EXPIRATION: 03/01/2014 006 9/26/13

DIAGNOSTIC CHECK	PASSED	14:22
BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.076	14:22
BLANK TEST	0.000	14:23
SUBJECT SAMPLE	0.000	14:24
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.076	14:25
BLANK TEST	0.000	14:26

COB

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100352

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/23/2013

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.87: 0.077

LOT #: 020112080A1

EXPIRATION: 03/01/2014

02012080A1 correct lot#
089/26/13

BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.076	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.077	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.076	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.077	14:17
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.076	14:18
BLANK TEST	0.000	14:19

Average = 0.0764

Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 2.00

PIC: 3.03

Modem: 2.3

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C

PASSED

Breath Tube = 48.0°C

PASSED

PUMP INFO

Flow Rate = 4.777 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

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

(1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.

(2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.

(3) I am the Scientific Director of the State Breath Alcohol Program.

(4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.

(5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.

(6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz

Scientific Director

State Breath Alcohol Program

Subscribed and sworn before me this ____ day of ____, 20 ____

Final page for report

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10/13/2014