

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMCEF 2014 R0
Status: Active

Instrument S/N 100674 Analyst Colleen O'Bryant Start Date 6/19/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
 - iv. Chopper Frequency
 - v. Detector Voltage (-0.100V to 0.100V)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.5 L (1.3L to 1.7L) ☒
5. Linearity Test (attached)
 - a. Levels Used
 - i. 0.020g/210L Mnf I/mo Lot 00813020A1 Exp 3/1/15
 - ii. 0.040g/210L Mnf I/mo Lot 00813040A2 Exp 3/1/15
 - iii. 0.080g/210L Mnf I/mo Lot 11313080A1 Exp 6/1/15
 - iv. 0.100g/210L Mnf I/mo Lot 0081300A3 Exp 3/1/15
 - v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14
 1. Simulator S/N DR4176 Date Calibrated 11/1/13
 - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N DR4163 Date Calibrated 11/4/13
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 12120 Level 0.200 Exp 8/10/14
 1. Simulator S/N DR4162 Date Calibrated 11/1/13
 - ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR416267 Date Calibrated 11/5/13
 - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4177 Date Calibrated 11/5/13
 - d. RFI ☒
7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒
10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒

End Date 6/20/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 06/19/2014
Time: 08:35:06

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 46.5°C	PASSED

PUMP INFO

Flow Rate = 4.238 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: 100674

Date: 06/19/2014

Time: 8:47 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.0°C

Current Barometer 29.6 in

Volume (Ltr) 1.54

Settings

Lamp: 1.74 V

Bias: 80 V

Cooler: 1.85 V

Chopper: 538 Hz

Voltages (V)

Flow: 1.03 V

Detector: 0.099 V

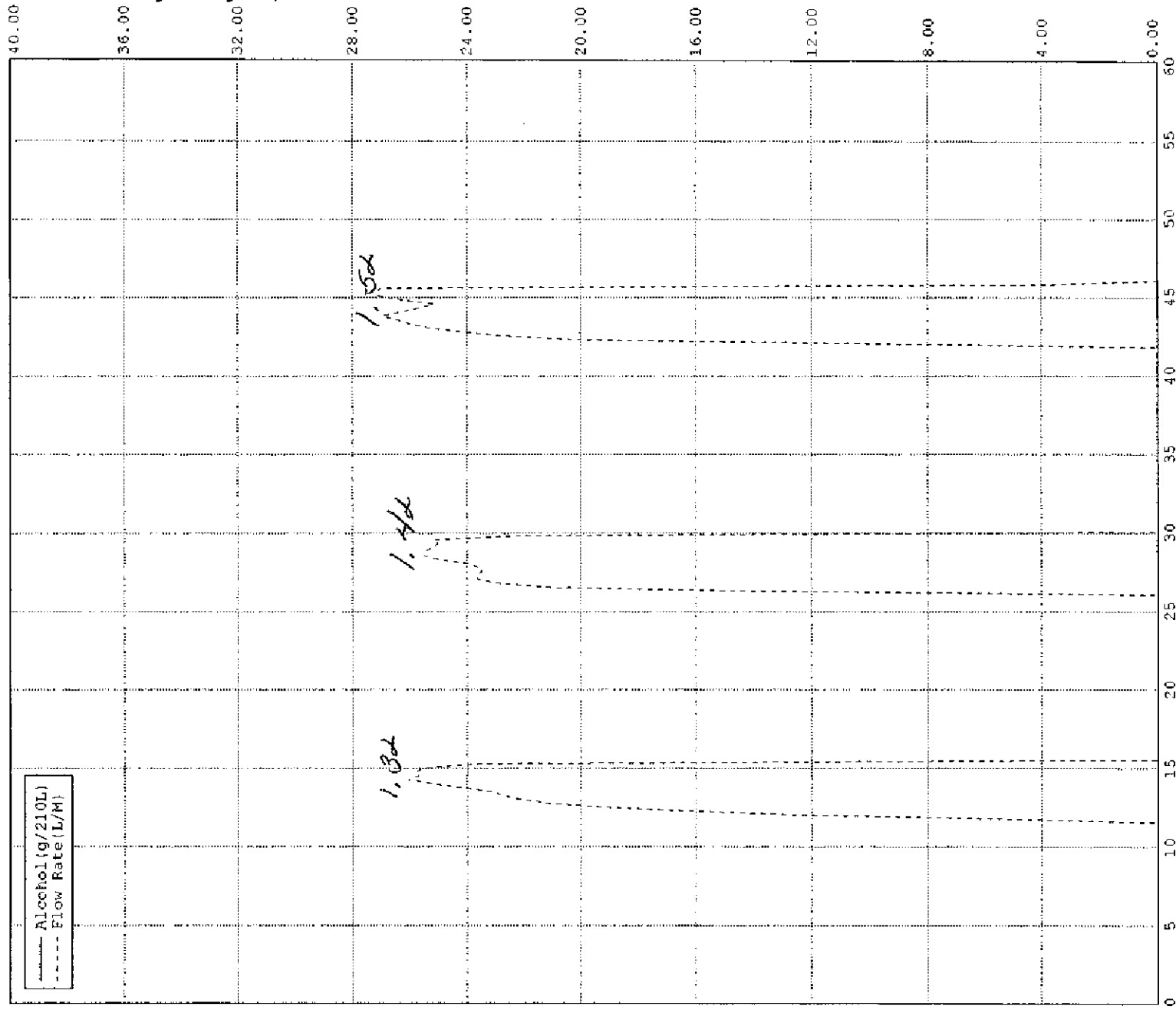
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 05/16/2013
Time: 07:20:44

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.978600 0.800 <= CAL < 1.200
b1 = 0.0015 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.1049 0.0500 <= Xq < 0.2000
a21 = 1.116940 1.050 <= a21 < 1.300
a31 = 0.416219 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dnt: 100674

Date: 06/19/2014

Time: 08:47:59

SUBJECT NAME:

TEST TEST

LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAL

CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

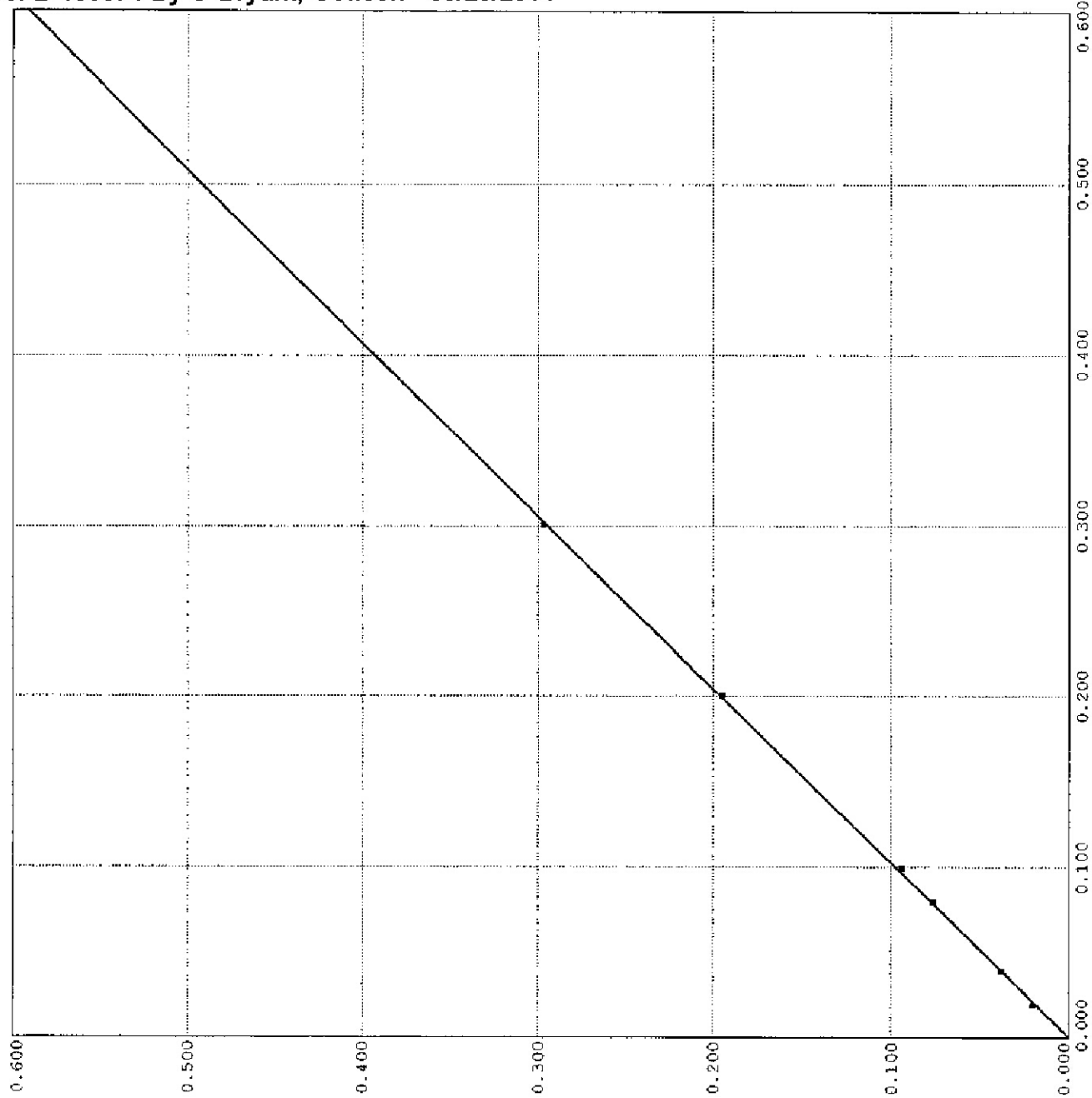
TARGET AT 29.63: 0.079

LOT #: 11313080AL

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:49
BLANK TEST	0.000	08:49
INTERNAL STANDARD	VERIFIED	08:49
EXTERNAL STANDARD	0.077	08:50
BLANK TEST	0.000	08:51
SUBJECT SAMPLE	0.000	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.078	08:53
BLANK TEST	0.000	08:53

COB



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 08:55:36

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0002
0.039	0.0391	0.0003
0.079	0.0776	0.0003
0.099	0.0945	0.0002
0.200	0.1955	0.0002
0.300	0.2977	0.0005

SLOPE = 0.986144
 R² = 0.999621

CRB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100674

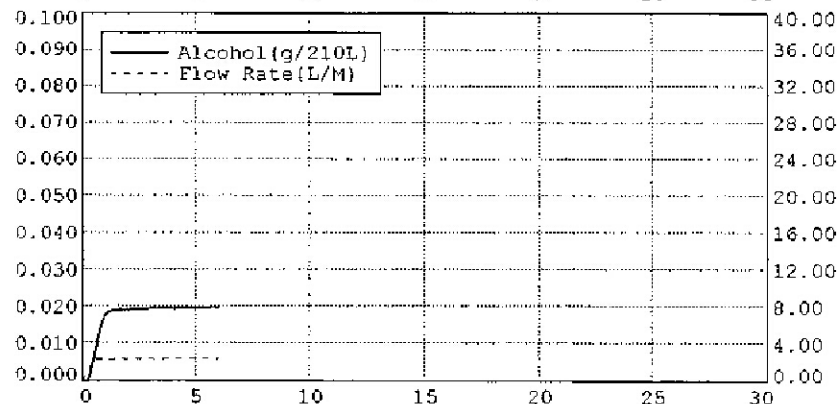
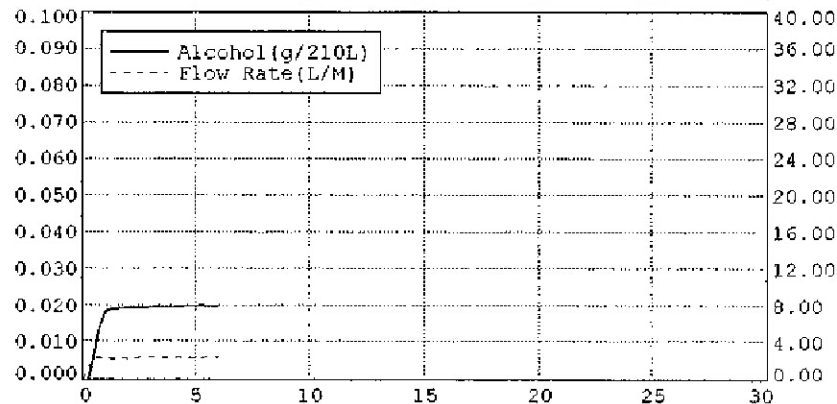
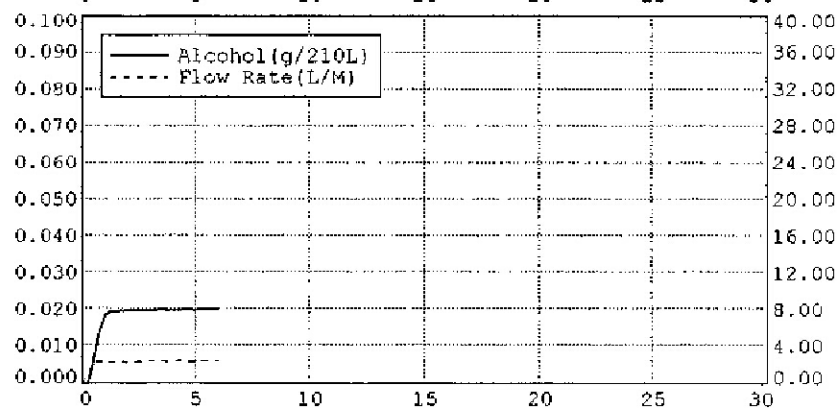
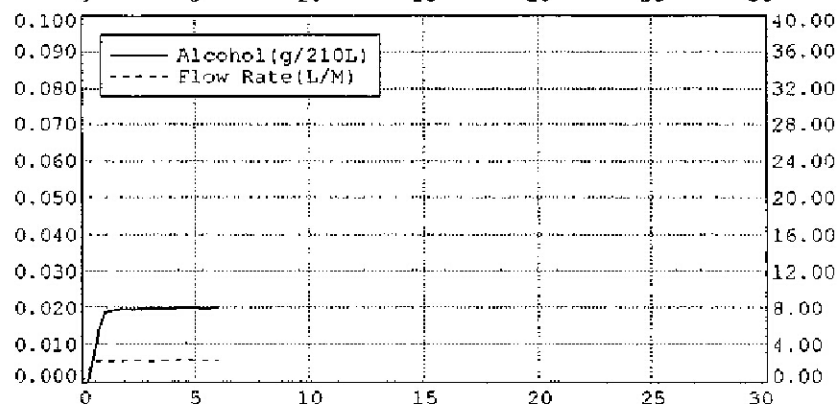
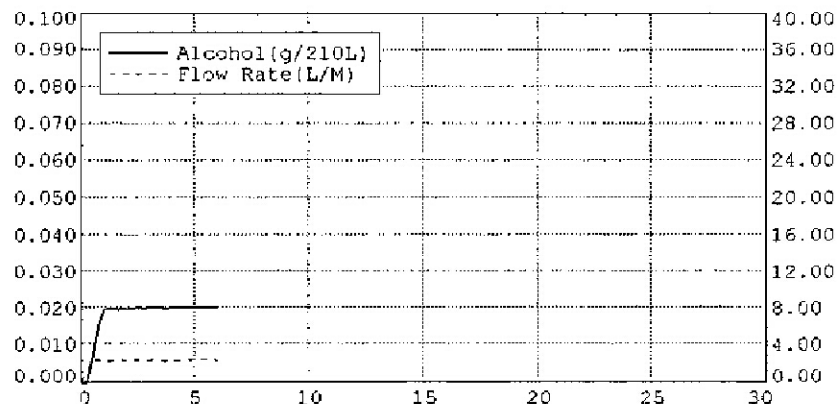
Date: 06/19/2014
Time: 08:55:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.62: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.021	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.020	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.020	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.021	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.020	09:14
BLANK TEST	0.000	09:14

Average = 0.0209
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100674

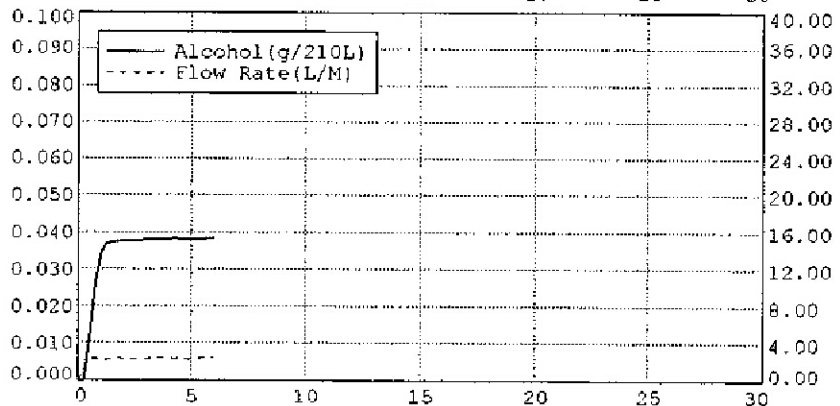
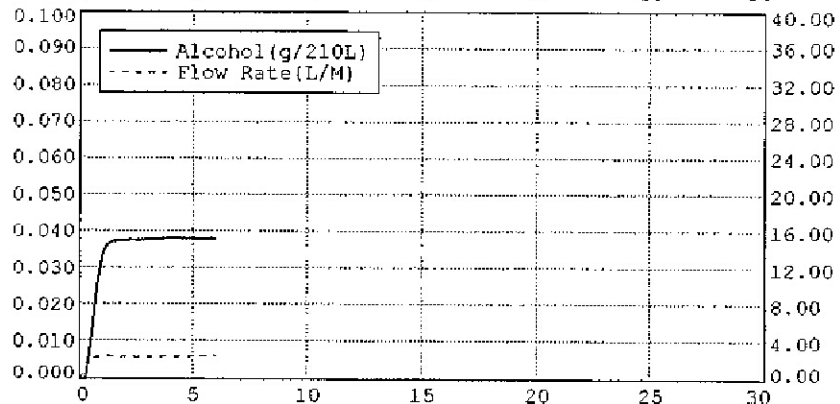
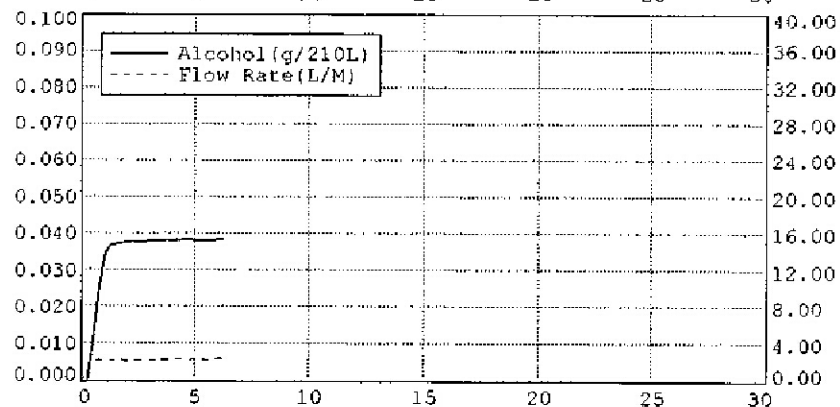
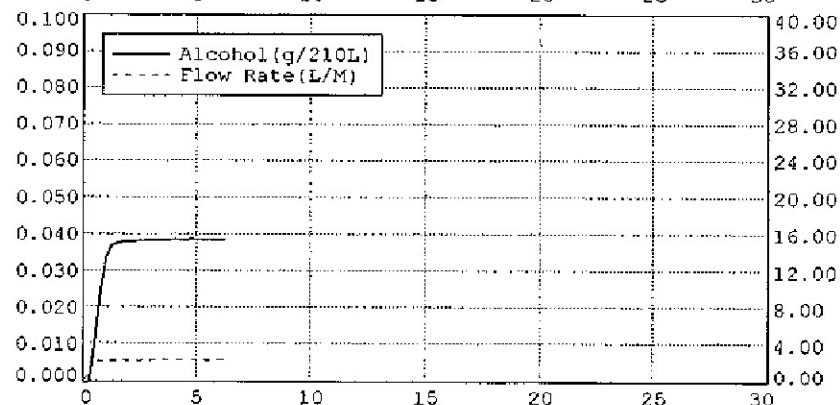
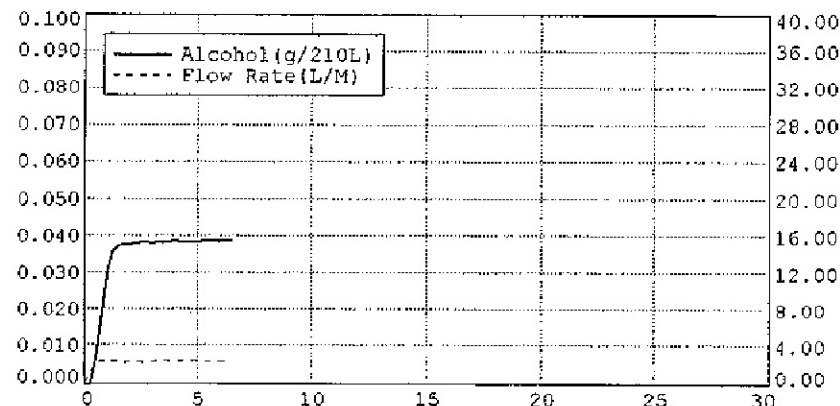
Date: 06/19/2014
Time: 09:16:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.62: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:18
EXTERNAL STANDARD	0.039	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.039	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.039	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.038	09:21
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.038	09:22
BLANK TEST	0.000	09:23

Average = 0.0391
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 06/19/2014
Time: 10:03:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.62: 0.079

LOT #: ~~113113080A1~~ 11313080A1

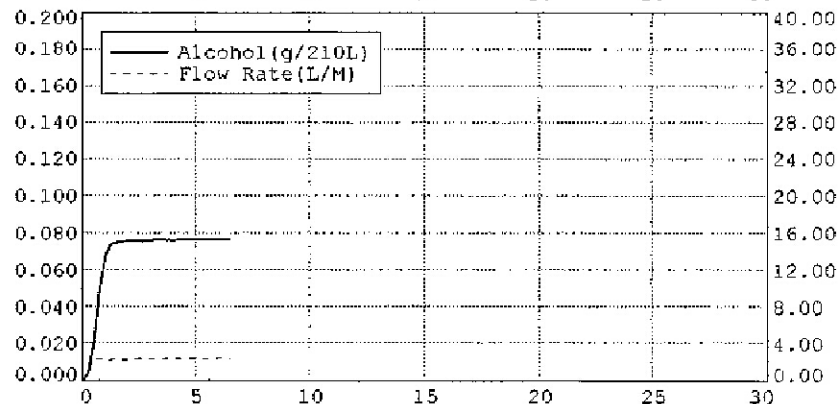
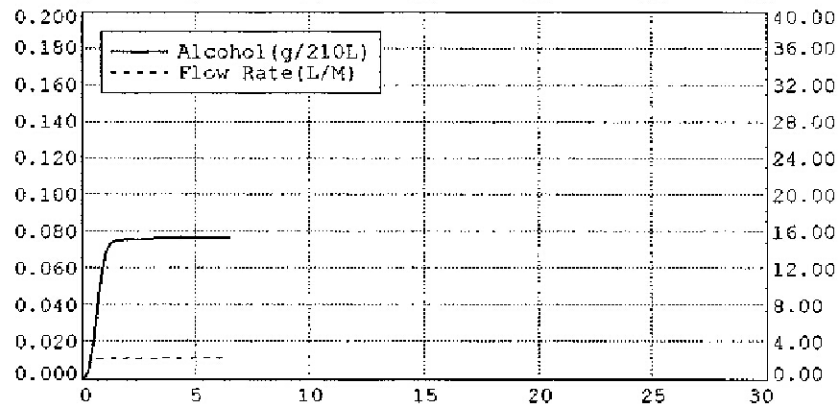
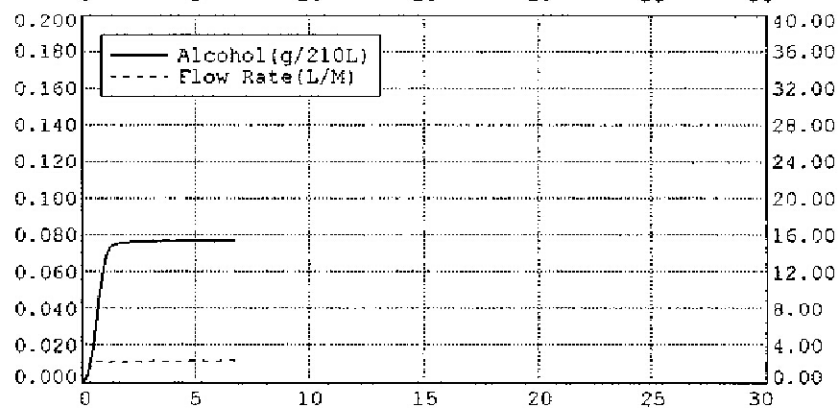
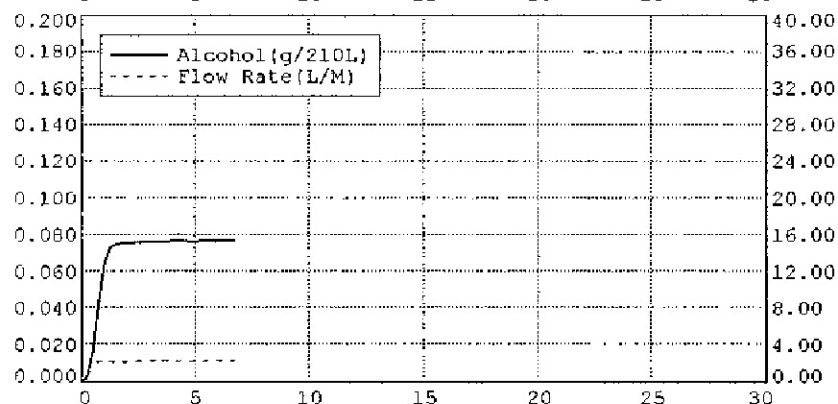
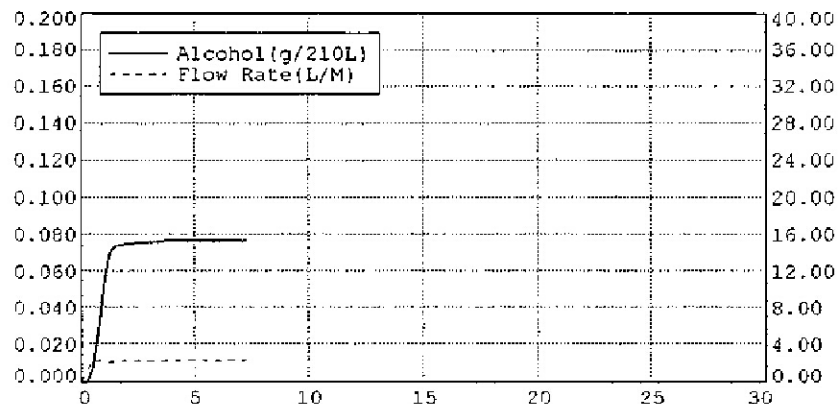
EXPIRATION: 06/01/2015

008 %0014

BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.077	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.077	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.077	10:07
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.077	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.077	10:09
BLANK TEST	0.000	10:10

Average = 0.0776

Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100674

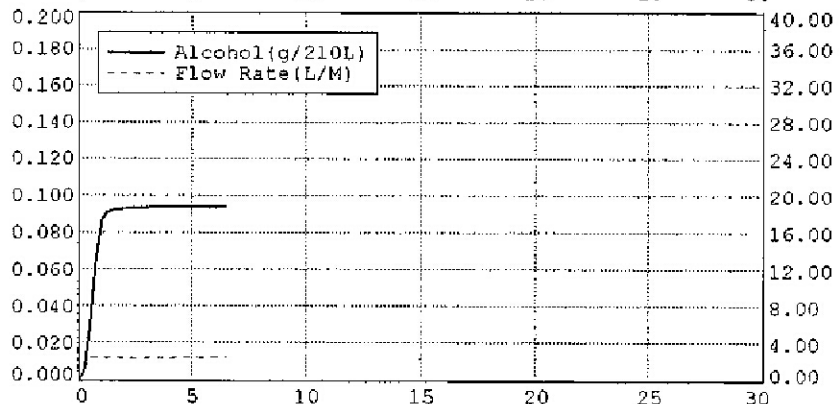
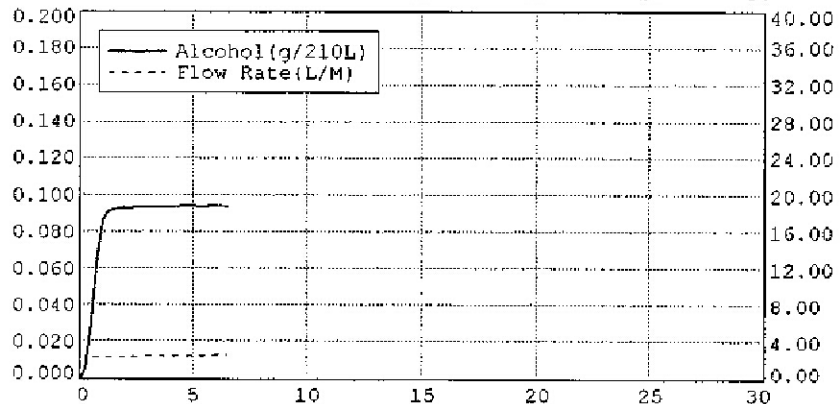
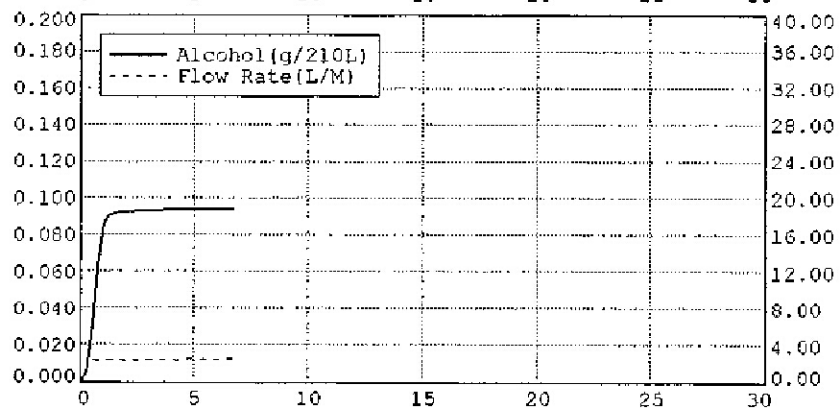
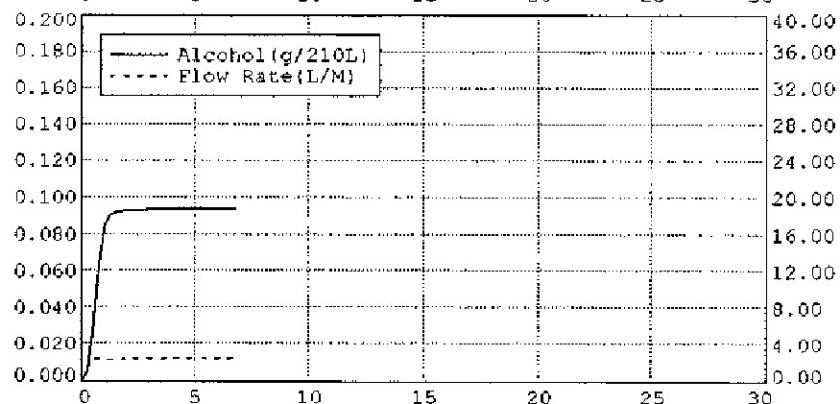
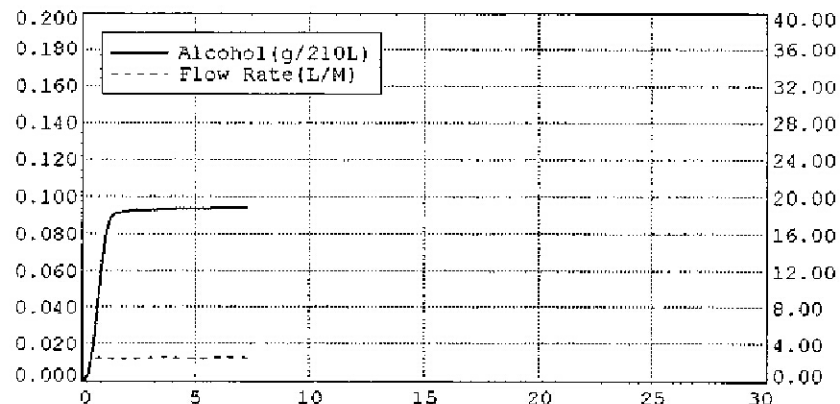
Date: 06/19/2014
Time: 10:11:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.62: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.094	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.094	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.094	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.094	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.094	10:17
BLANK TEST	0.000	10:18

Average = 0.0945
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100674

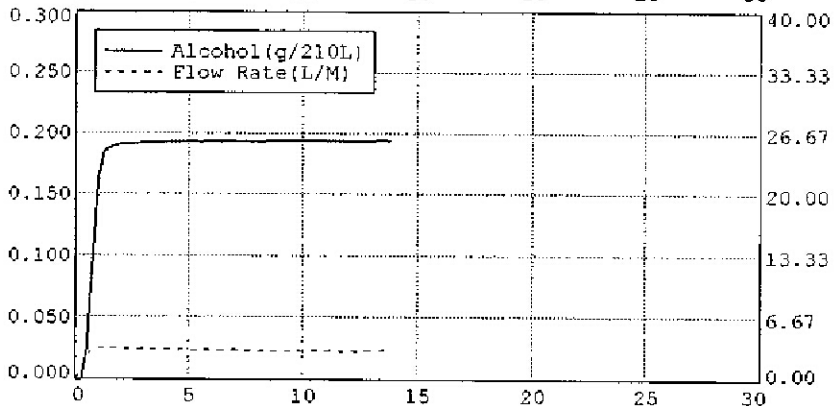
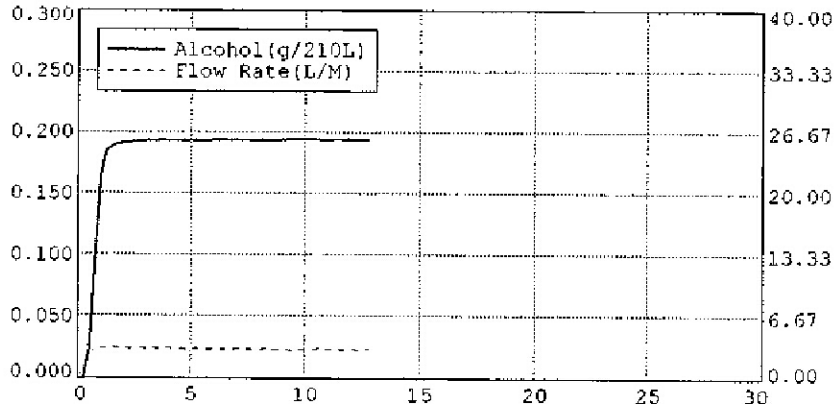
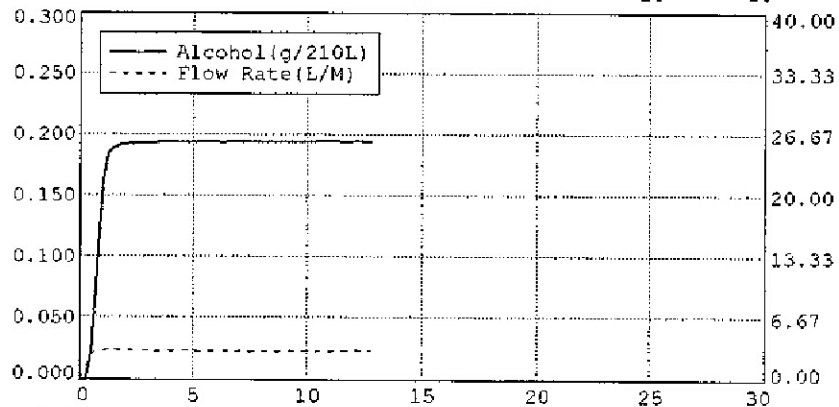
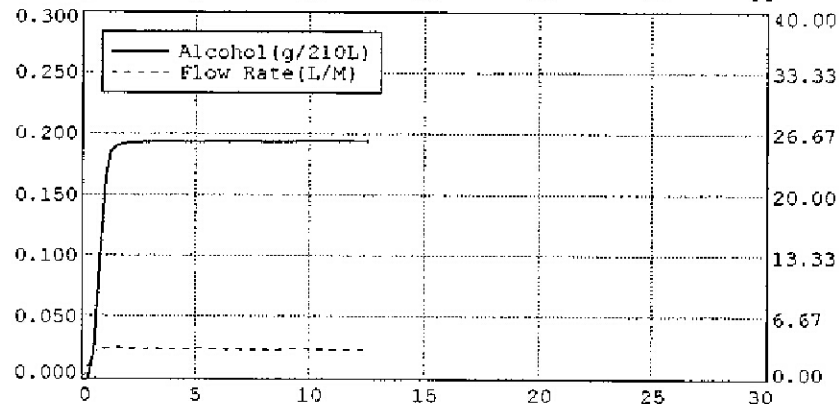
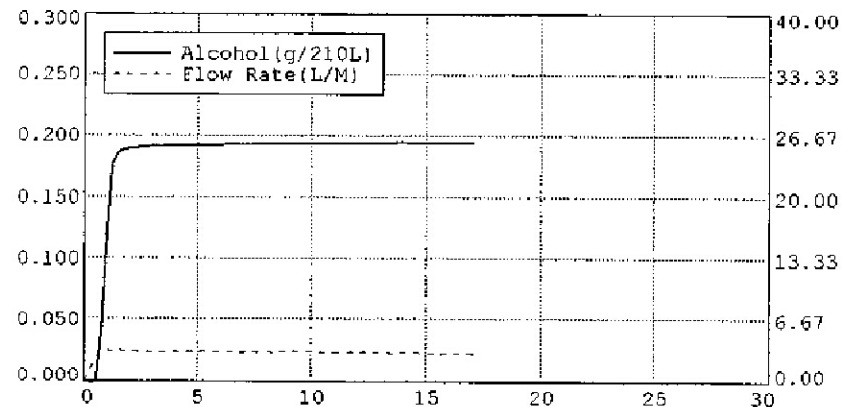
Date: 06/19/2014
Time: 10:21:36

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.195	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.195	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.195	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.195	10:27
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.195	10:28
BLANK TEST	0.000	10:29

Average = 0.1955
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100674

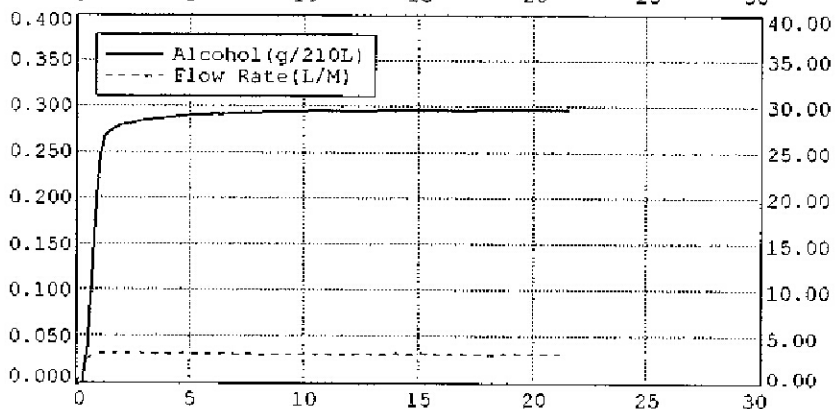
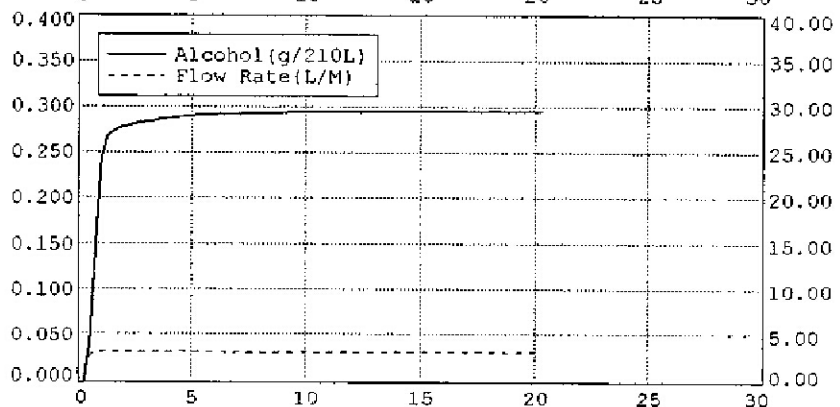
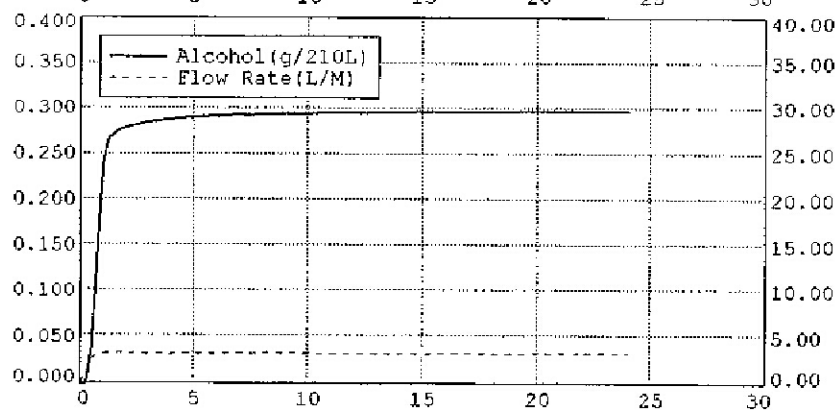
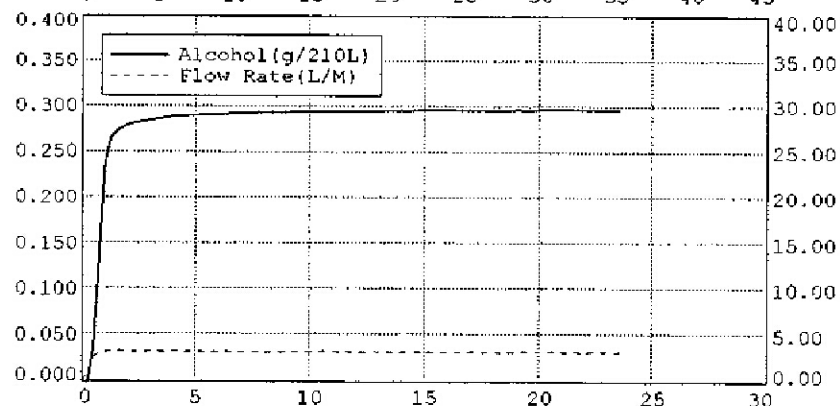
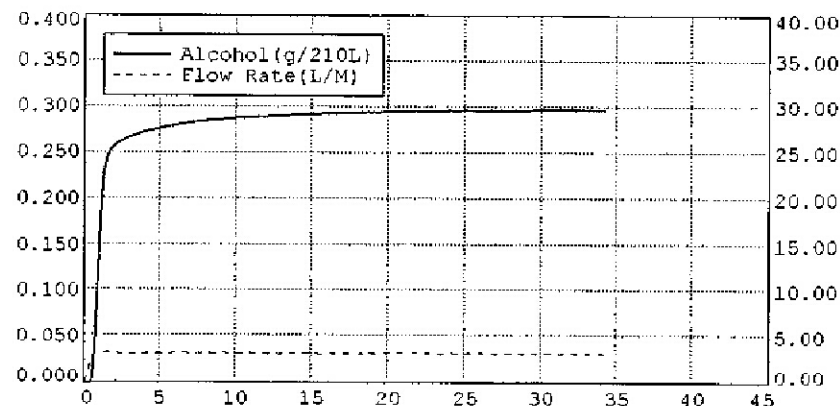
Date: 06/19/2014
Time: 12:25:07

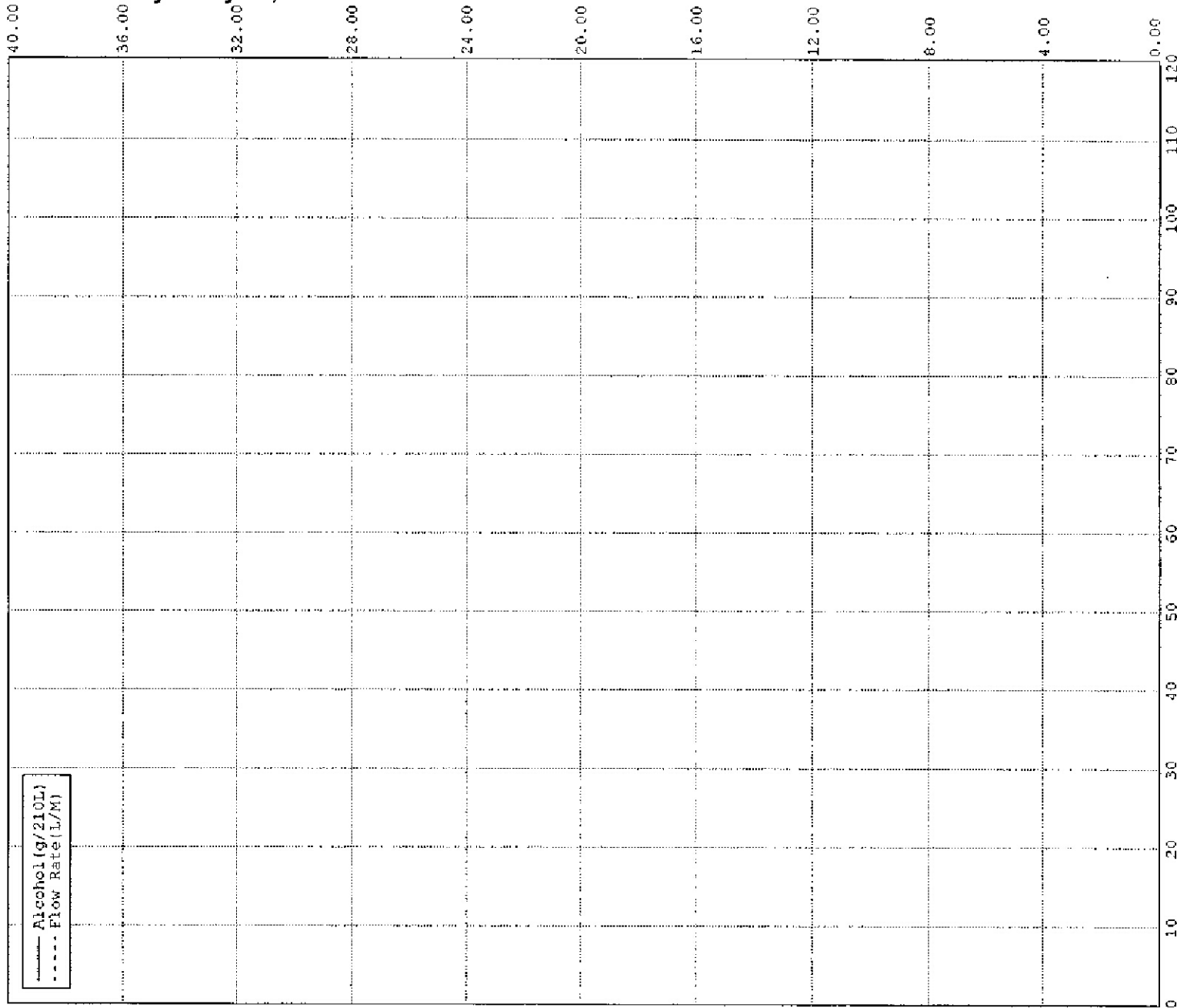
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.297	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.297	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.298	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.296	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.297	12:32
BLANK TEST	0.000	12:33

Average = 0.2977
Std Dev = 0.0006





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 06/19/2014
Time: 12:38:03

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

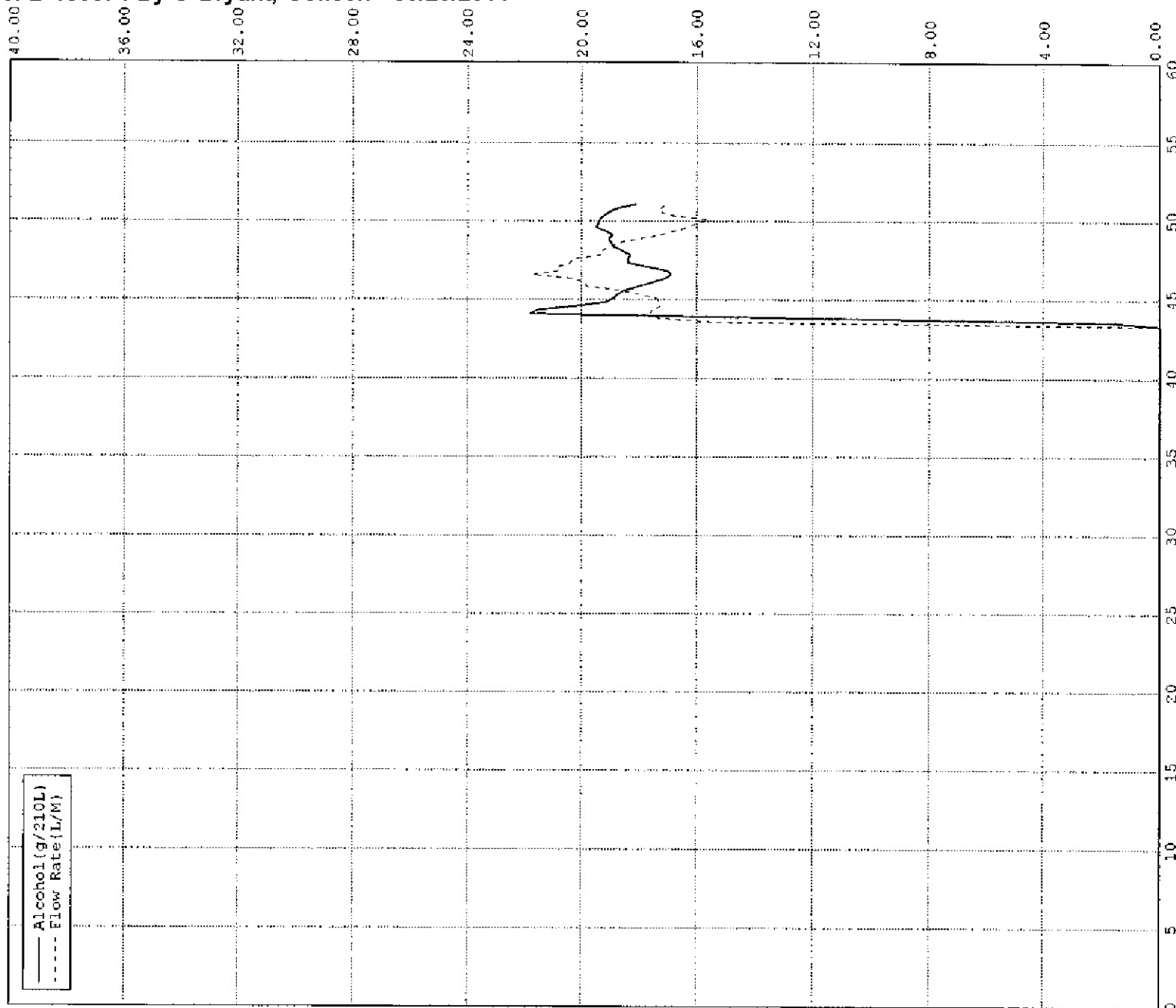
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:03
BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.078	13:04
BLANK TEST	0.000	13:05
SUBJECT SAMPLE	INCOMPLETE	13:07

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 13:10:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAA1

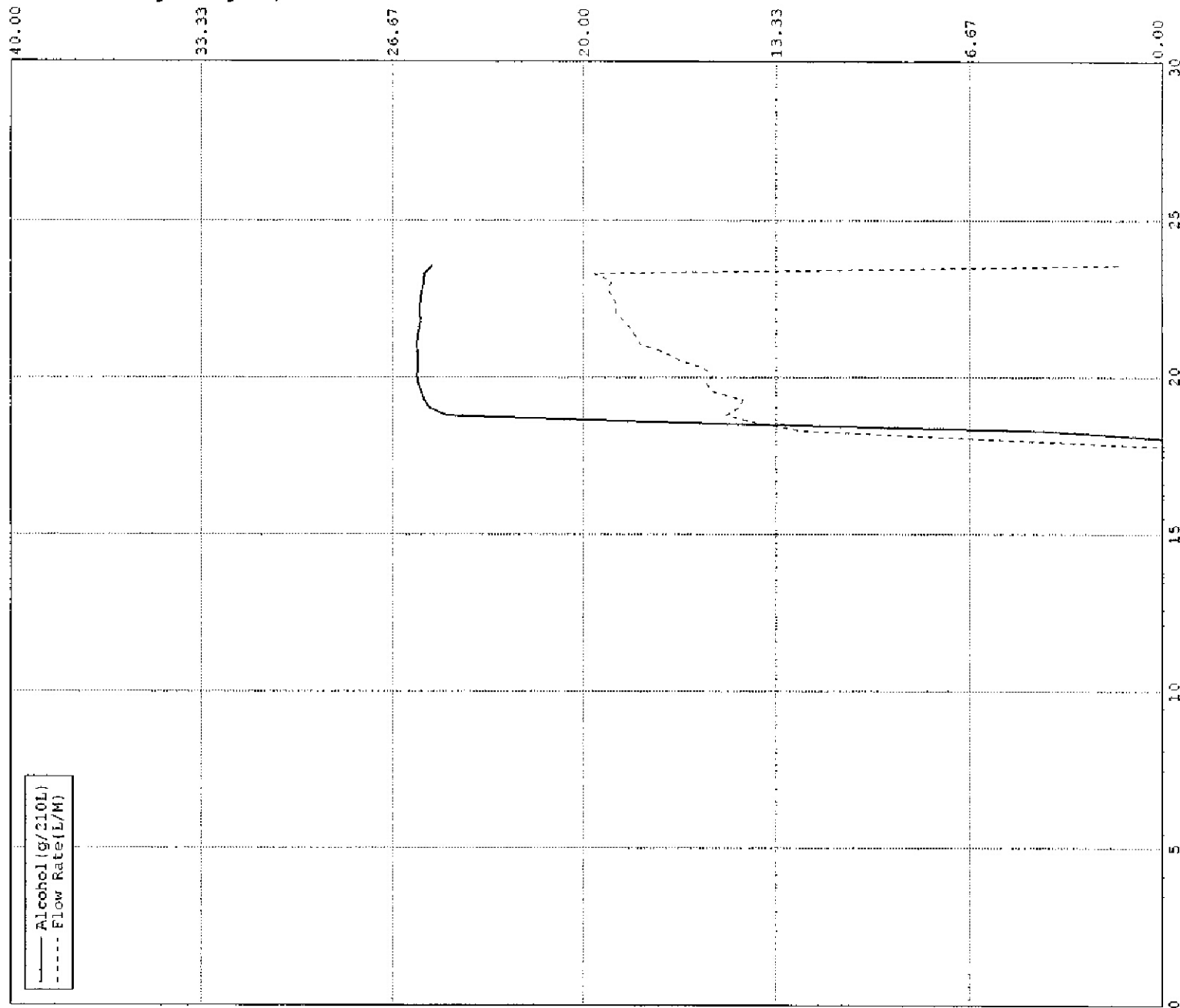
CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:12
BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.077	13:12
BLANK TEST	0.000	13:13
SUBJECT SAMPLE	INVALID	13:14

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 13:17:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
 AAAI

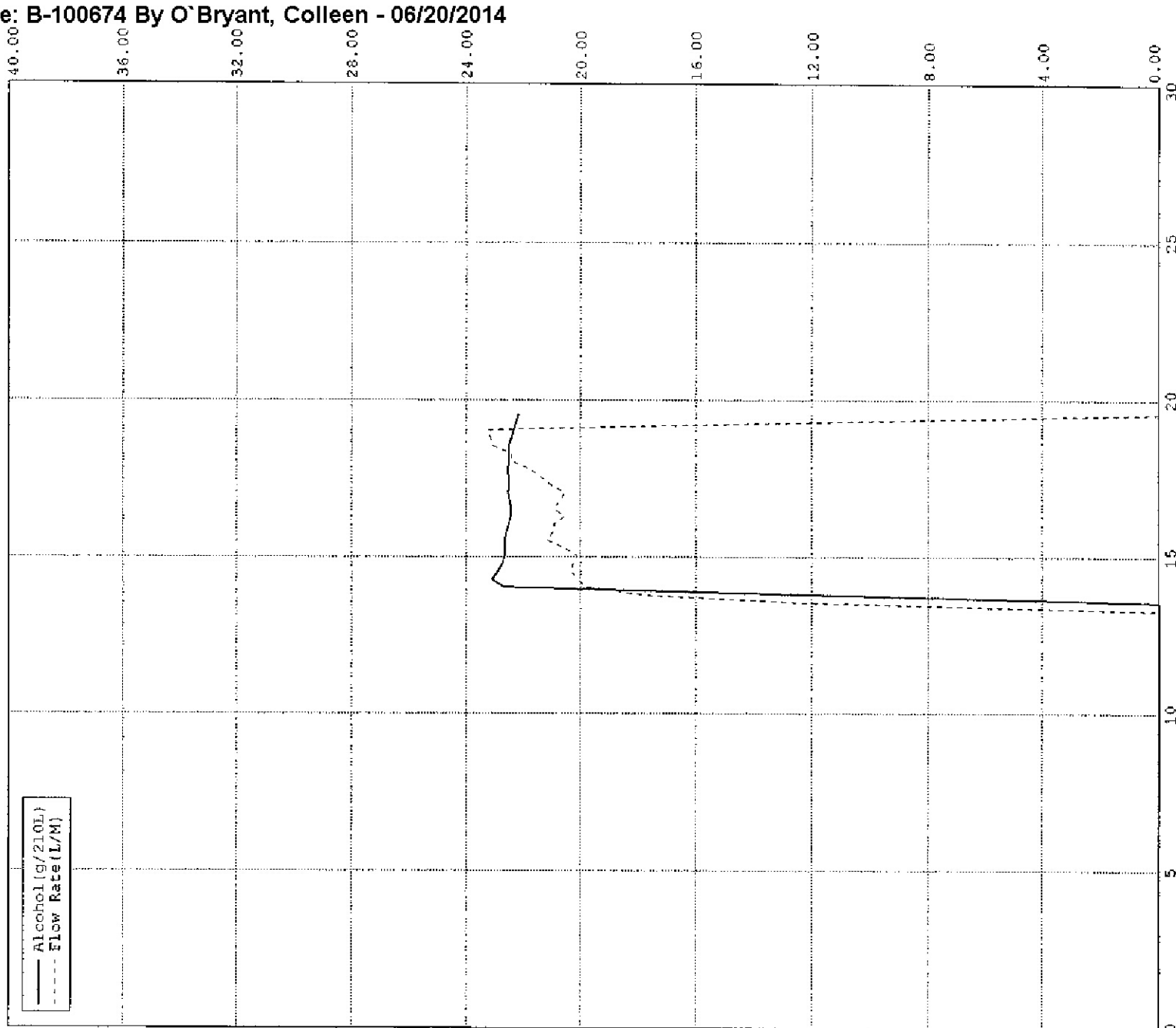
CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:20
BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
$X_q = 0.106$ (1.09%)		
EXTERNAL STANDARD	0.077	13:20
$X[1] = 0.0773$ (-0.0003) (0.0025)		
BLANK TEST	0.000	13:21
SUBJECT SAMPLE	INTERFERENCE	13:22
$X[1] = 0.1893$ (-0.0186) (-0.0005)		

CSB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 13:25:10

SUBJECT NAME:

TEST TEST

LICENSE #: INT-IPA

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.62: 0.079

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

PASSED 13:29

BLANK TEST

0.000 13:29

INTERNAL STANDARD

VERIFIED 13:29

 $X_q = 0.106$ (1.17%)

EXTERNAL STANDARD

0.078 13:29

 $X(1) = 0.0780$ (-0.0003) (0.0021)

BLANK TEST

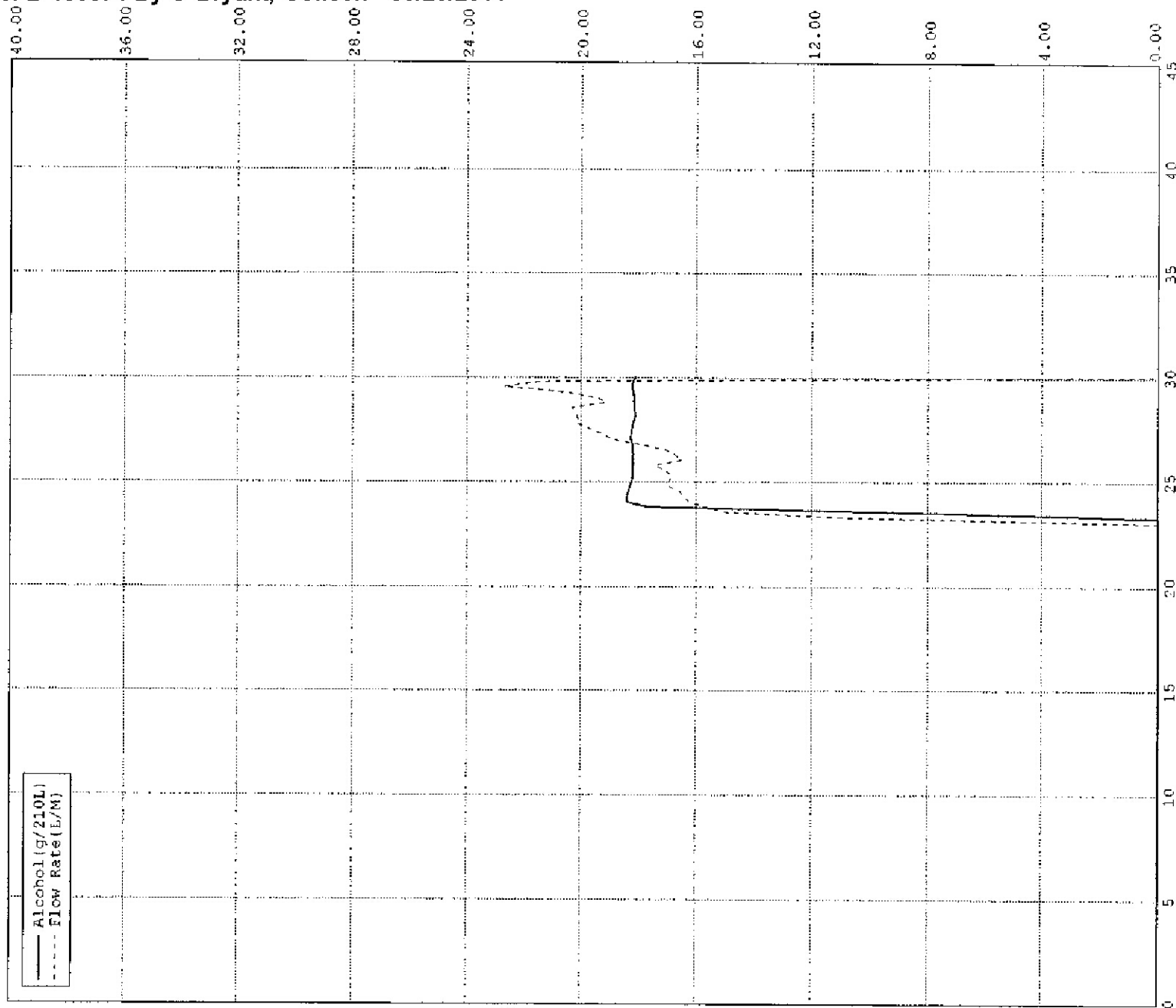
0.000 13:30

SUBJECT SAMPLE

INTERFERENCE 13:31

 $X(1) = 0.1100$ (-0.0159) (0.0016)

CAB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 13:35:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

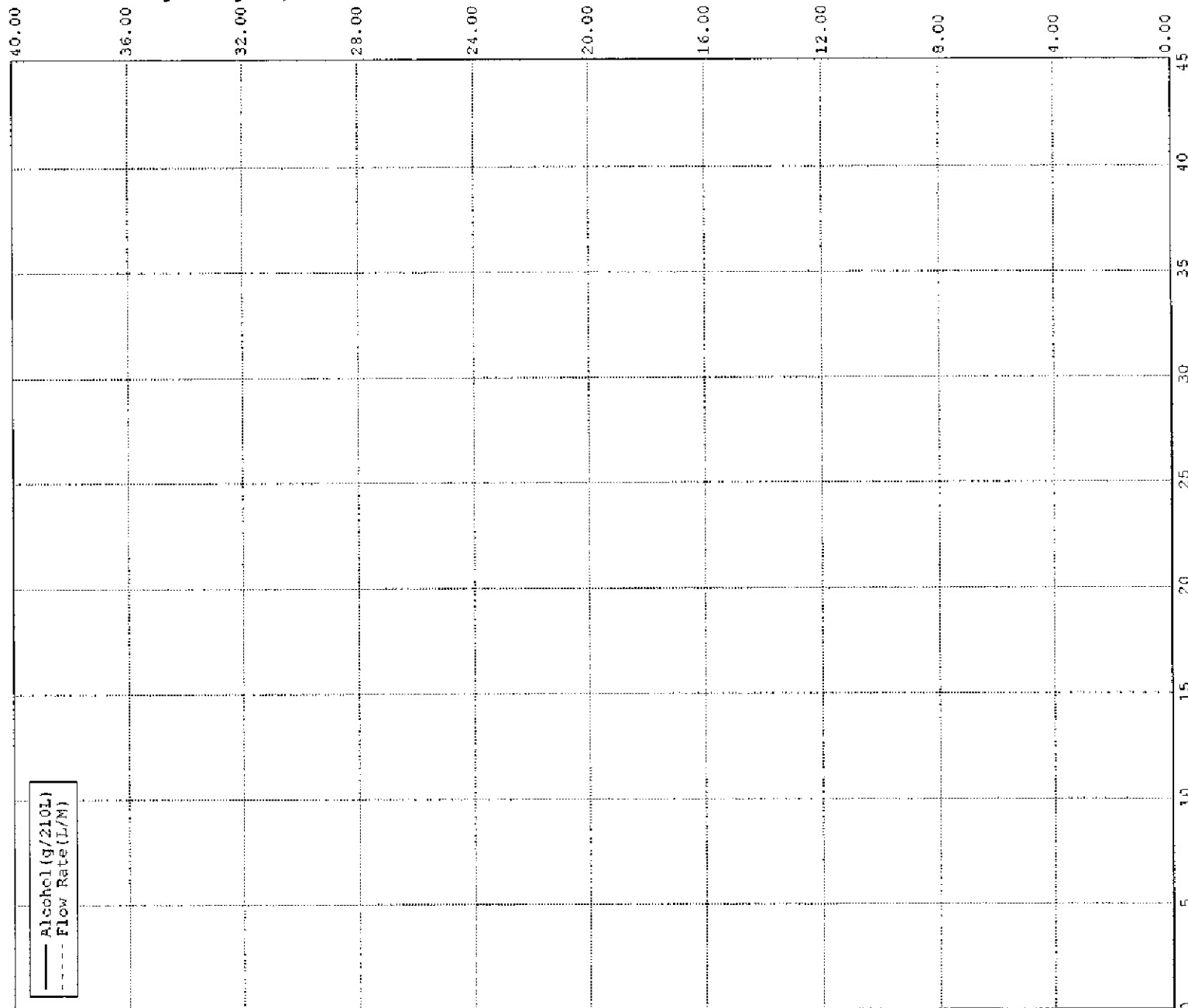
NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
$X_q = 0.106$ (1.17%)		
EXTERNAL STANDARD	0.077	13:40
$X[1] = 0.0778$ (-0.0002)	(0.0022)	
BLANK TEST	0.000	13:41
SUBJECT SAMPLE (Vol=2.03L)	0.089	13:41
$X[1] = 0.0899$ (-0.0002)	(0.0001)	
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.077	13:42
$X[1] = 0.0770$ (-0.0004)	(0.0021)	
BLANK TEST	0.000	13:43

Filter 2 average (-0.0003)

Filter 3 average (0.0002)

CR



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER cmt: 100674

Date: 06/19/2014

Time: 14:54:24

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.61: 0.079

LOT #: 11313080AL

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

PASSED 15:08

BLANK TEST

0.000 15:08

INTERNAL STANDARD

VERIFIED 15:08

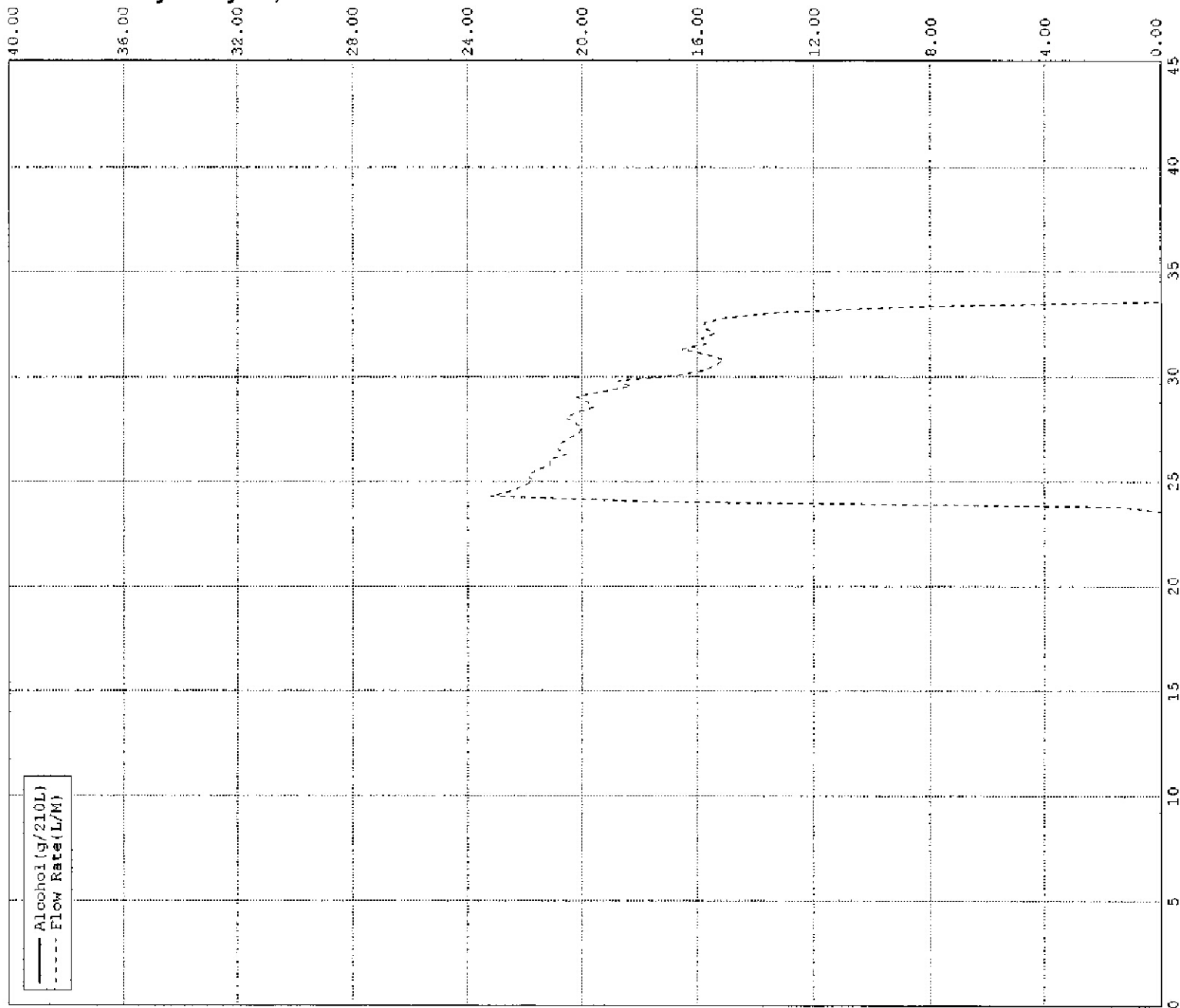
EXTERNAL STANDARD

0.077 15:09

BLANK TEST

0.000 15:10

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 06/19/2014
 Time: 15:21:23

SUBJECT NAME:

TEST TEST

LICENSE #: NONDRINKING

OPERATOR NAME:

COLLEEN S OBRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.61: 0.079

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST

PASSED

15:22

INTERNAL STANDARD

VERIFIED

15:22

EXTERNAL STANDARD

0.077

15:22

BLANK TEST

0.000

15:23

SUBJECT SAMPLE

0.000

15:24

BLANK TEST

0.000

15:25

EXTERNAL STANDARD

0.077

15:25

BLANK TEST

0.000

15:26

Final page for report

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7/10/2014