

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 100684 Analyst Colleen O'Bryant Start Date 8/22/14

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1.5 L (1.3L to 1.7L)

5. Linearity Test (attached) 1.6

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 22612080A1 Exp 9/1/14
- iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf GUTH Lot 14130 Exp 5/12/16
 1. Simulator S/N DR5298 Date Calibrated 2/19/14
- vi. 0.300g/210L Mnf GUTH Lot 13080 Exp 3/19/15
 1. Simulator S/N UD1177 Date Calibrated 2/20/14

6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference

- i. Acetone - Mnf GUTH Lot 14030 Level 0.100 Exp '16/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
- ii. Isopropanol - Mnf GUTH Lot 14030 Level 0.100 Exp '16/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
- iii. Negative Control - Mnf GUTH Lot 13010 Level 0.100 Exp '19/15
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

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 8/25/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 08/21/2014
Time: 14:23:36

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 46.2°C PASSED

PUMP INFO

Flow Rate = 4.022 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: 100684

Date: 08/22/2014
Time: 10:58 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 45.5°C

Current Barometer 30.0 in
Volume (Ltr) 1.45

Settings

Lamp: 1.88 V
Bias: 80 V
Cooler: 1.63 V
Chopper: 553 Hz

Voltages (V)

Flow: 1.03 V
Detector: 0.003 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 10/24/2011
Time: 12:32:44

Ca = 0.0990
CAL = 1.010229 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0902 0.0500 <= Xq < 0.2000
a21 = 1.170442 1.050 <= a21 < 1.300
a31 = 0.530906 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 08/22/2014
Time: 11:09:16

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

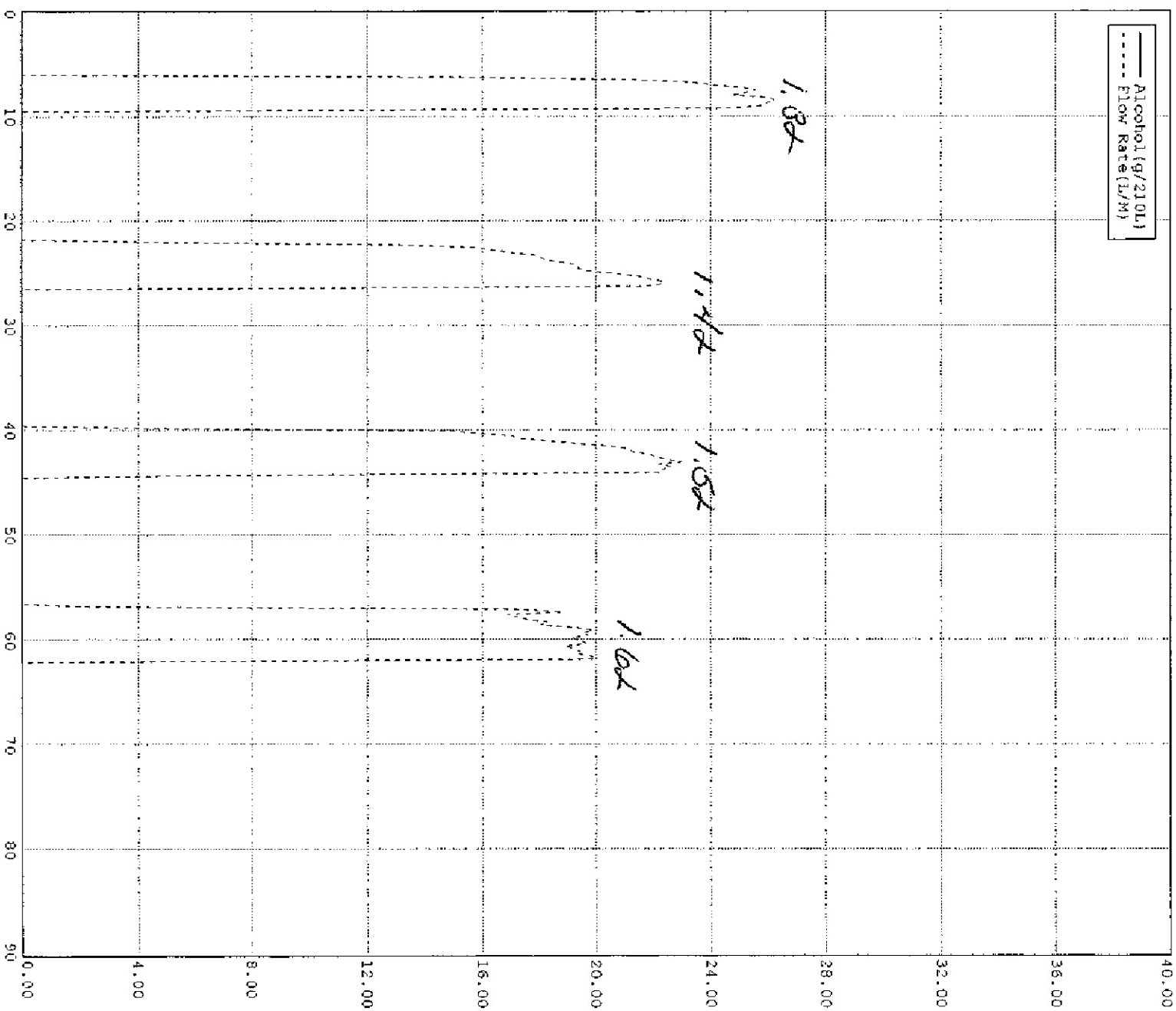
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	11:10
BLANK TEST	0.000	11:10
INTERNAL STANDARD	VERIFIED	11:10
EXTERNAL STANDARD	0.079	11:11
BLANK TEST	0.000	11:11
SUBJECT SAMPLE	0.000	11:13
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.079	11:14
BLANK TEST	0.000	11:15

COS



LINEARITY CHECK

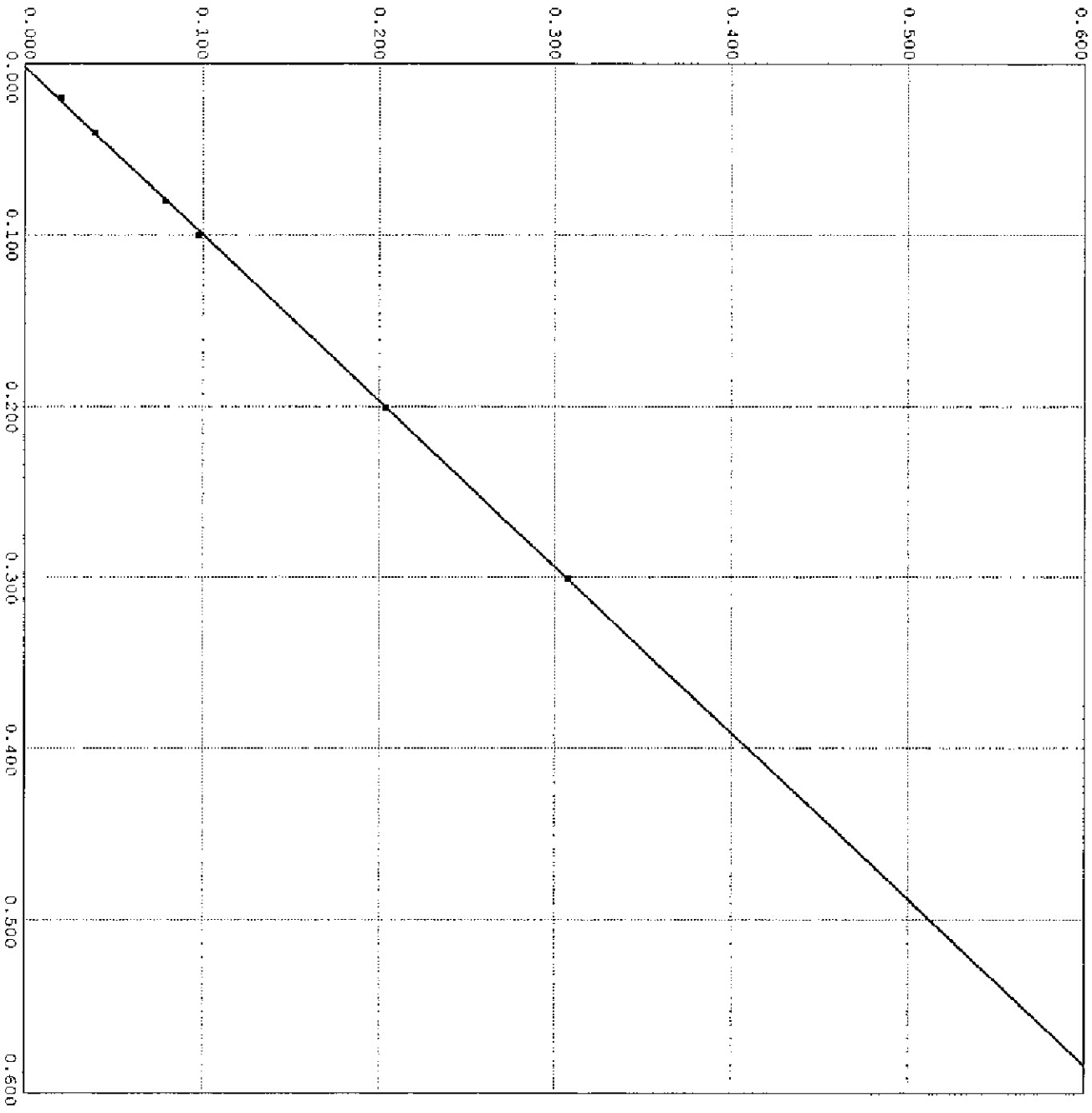
Alaska Department of Public Safety
 DATAMASTER dmc: 100684

Date: 08/22/2014
 Time: 11:27:02

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0212	0.0003
0.040	0.0402	0.0002
0.080	0.0797	0.0001
0.100	0.0989	0.0003
0.200	0.2046	0.0005
0.300	0.3084	0.0004

SLOPE = 1.030614
 R² = 0.999772



CS

LINEARITY CHECK: Control Test 1

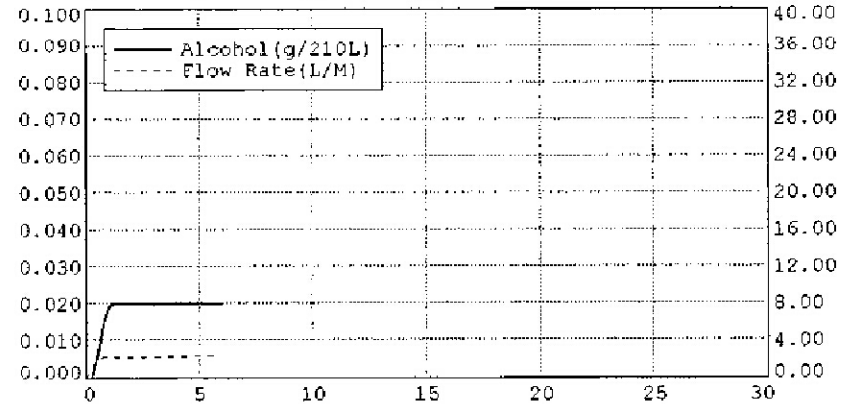
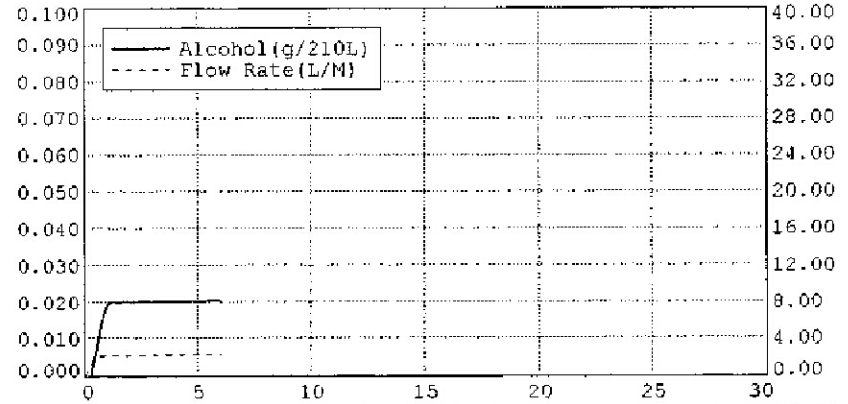
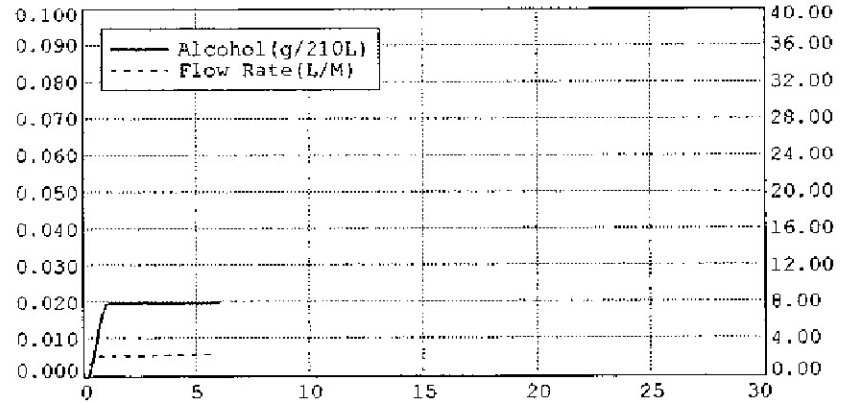
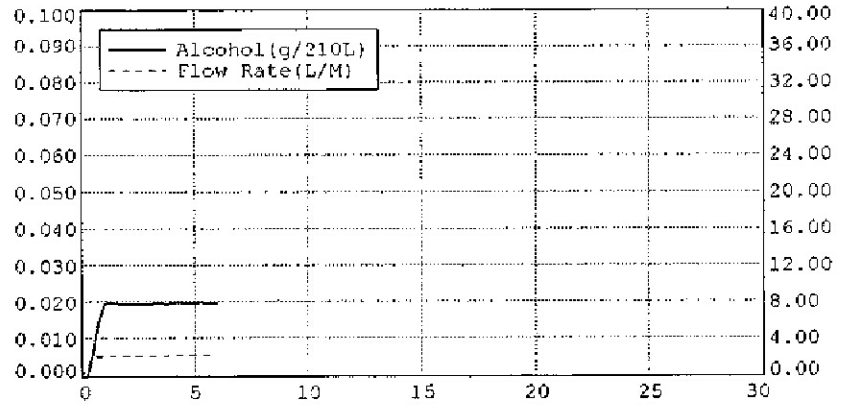
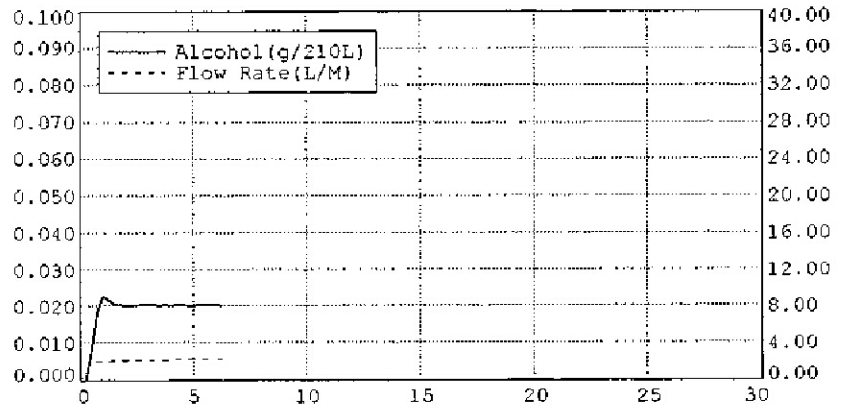
Alaska Department of Public Safety
 DATAMASTER dmt: 100684

Date: 08/22/2014
 Time: 11:27:03

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.96: 0.020
 LOT #: 00913020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
EXTERNAL STANDARD	0.021	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.020	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.020	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.021	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.021	11:37
BLANK TEST	0.000	11:38

Average = 0.0212
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

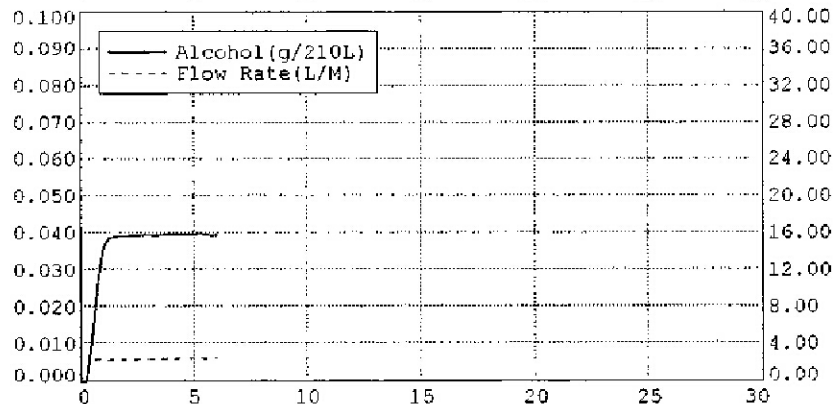
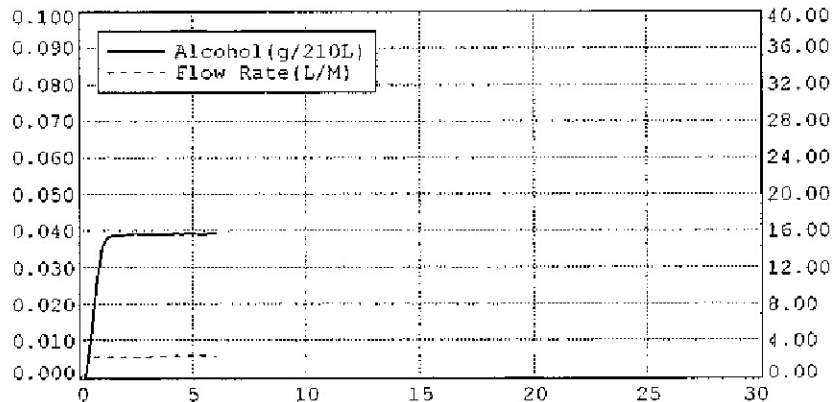
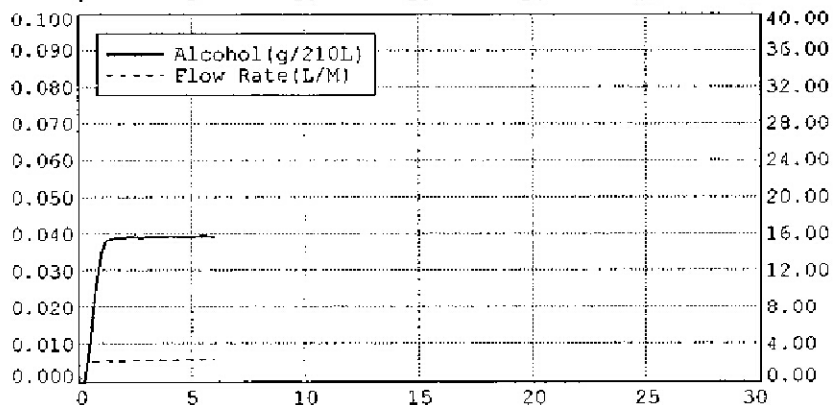
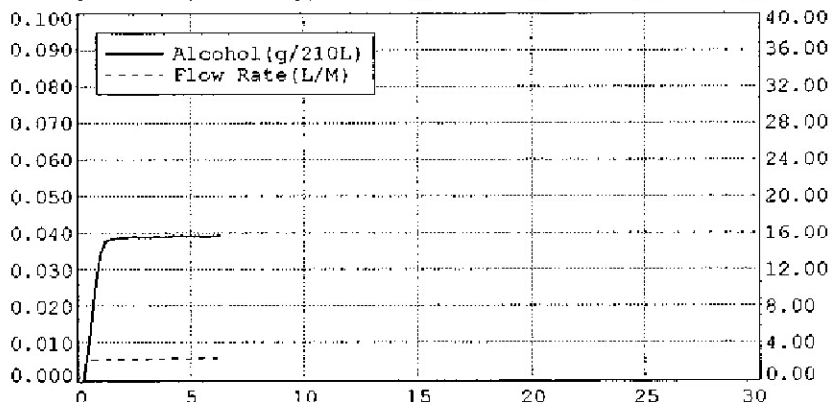
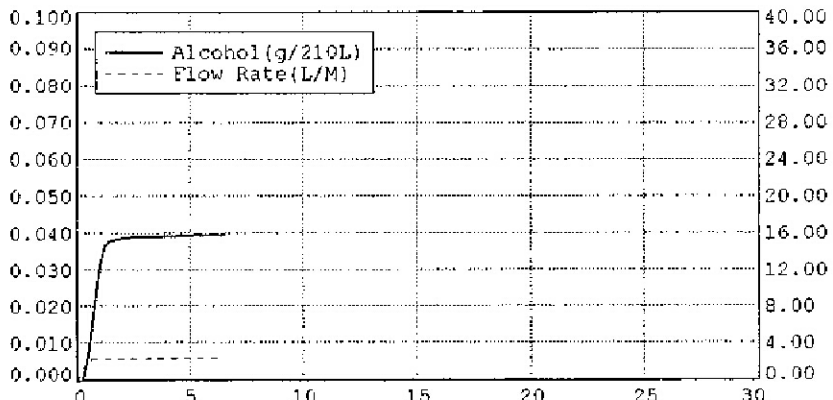
Date: 08/22/2014
 Time: 11:42:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.96: 0.040
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.040	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.040	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.040	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.040	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.040	11:48
BLANK TEST	0.000	11:49

Average = 0.0402
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

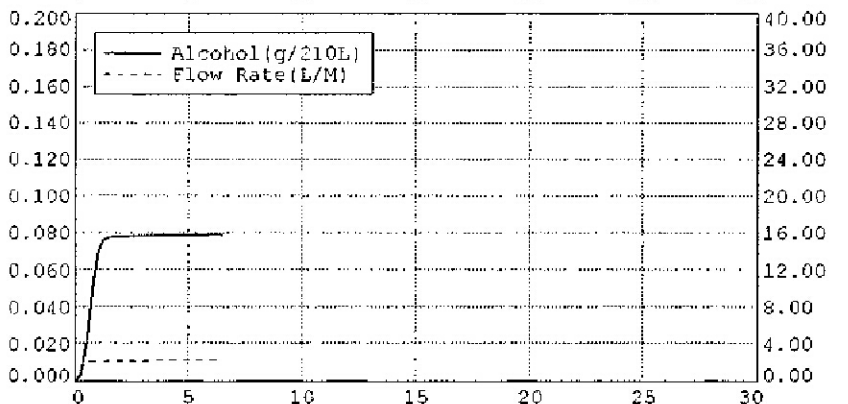
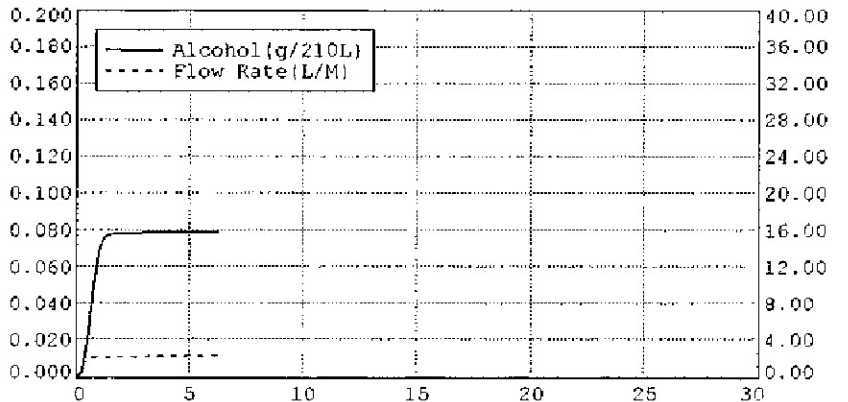
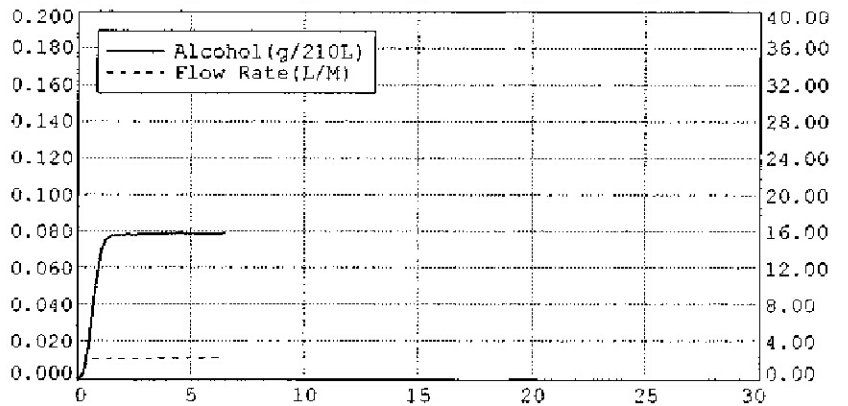
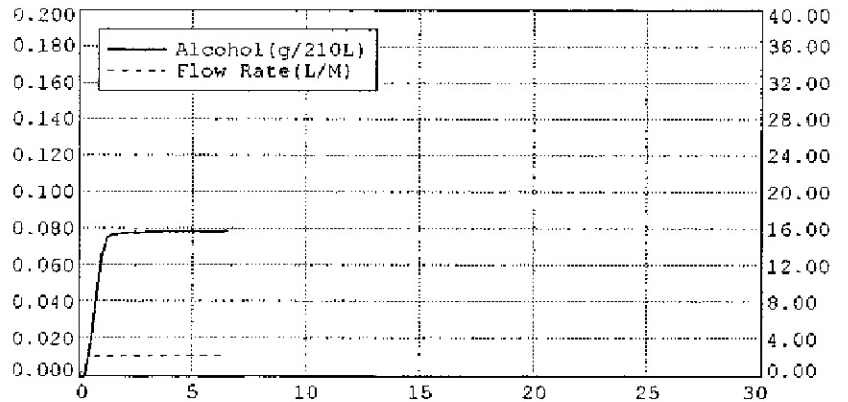
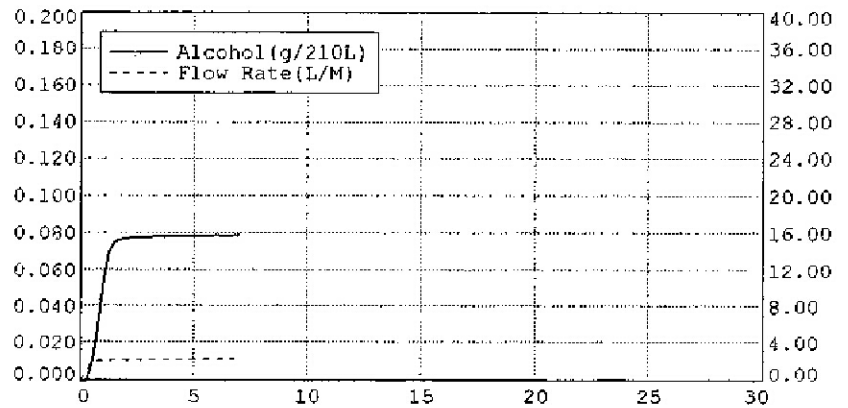
Date: 08/22/2014
 Time: 11:51:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:52
EXTERNAL STANDARD	0.079	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.079	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.079	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.079	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.079	11:57
BLANK TEST	0.000	11:58

Average = 0.0797
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

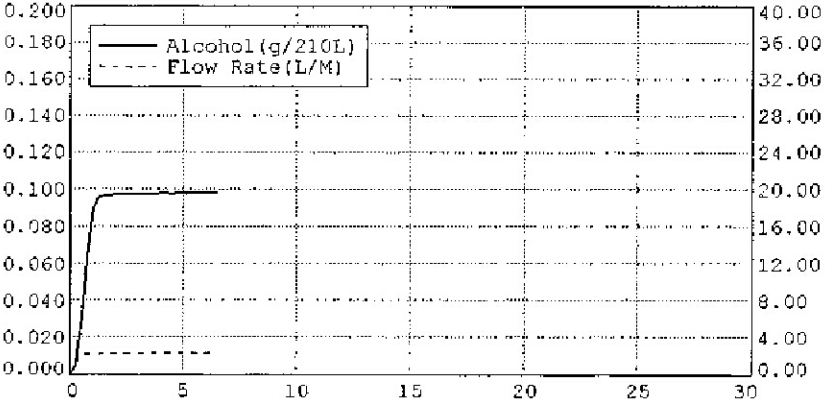
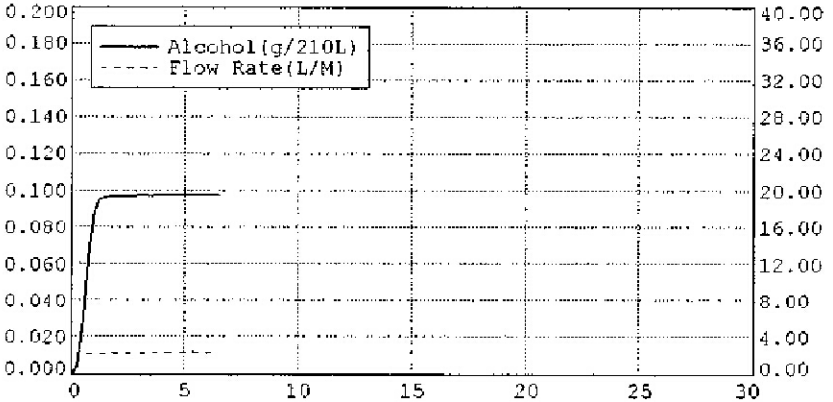
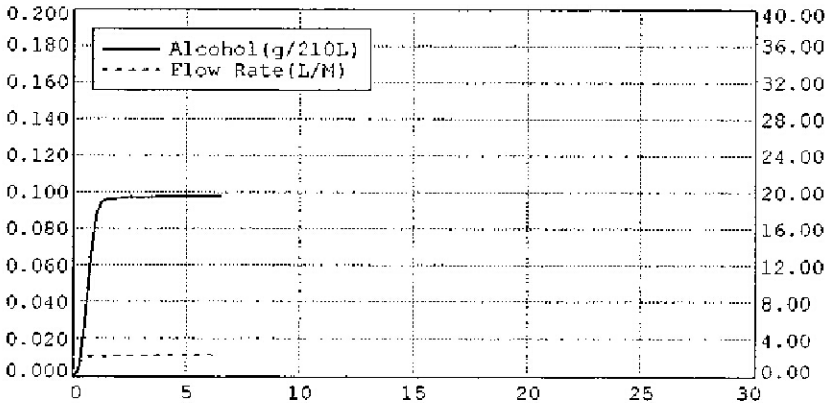
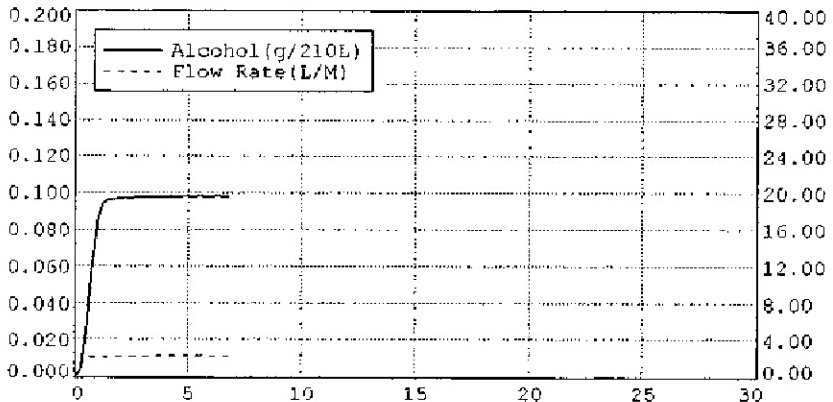
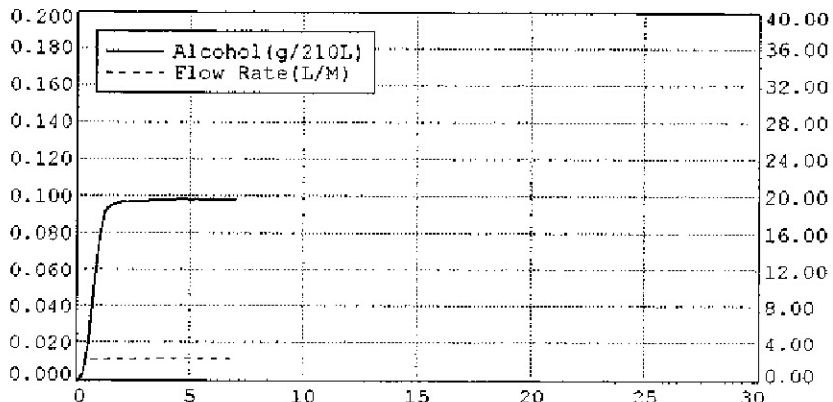
Date: 08/22/2014
 Time: 11:59:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.96: 0.100
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.099	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.099	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.098	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.098	12:05
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.098	12:06
BLANK TEST	0.000	12:07

Average = 0.0989
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

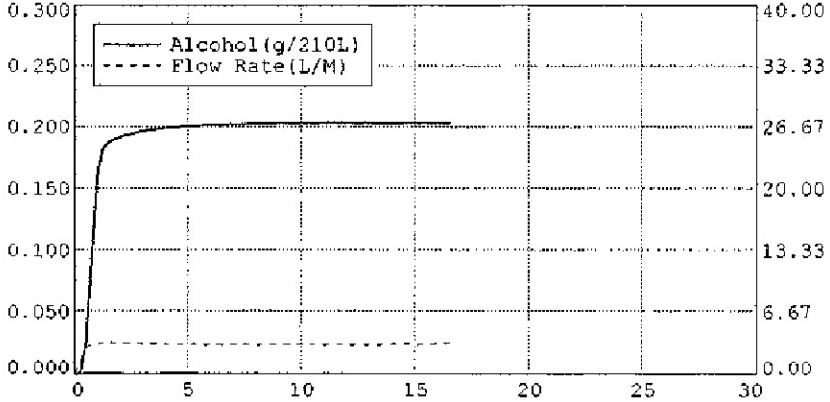
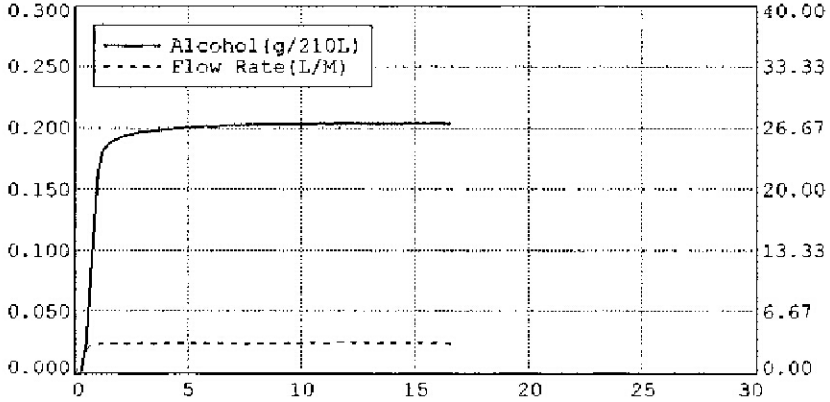
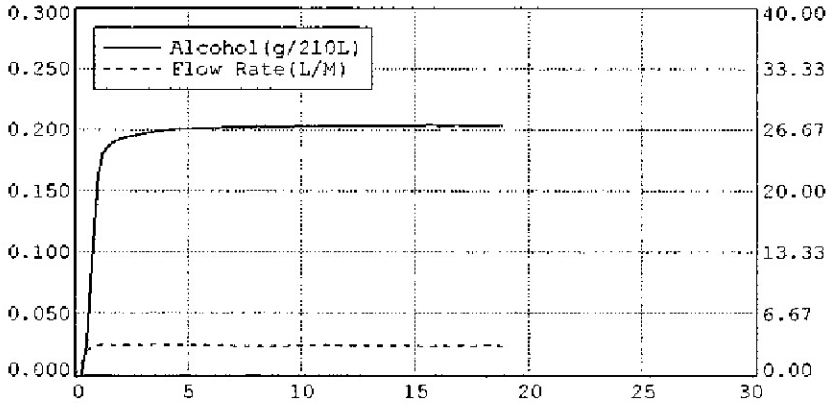
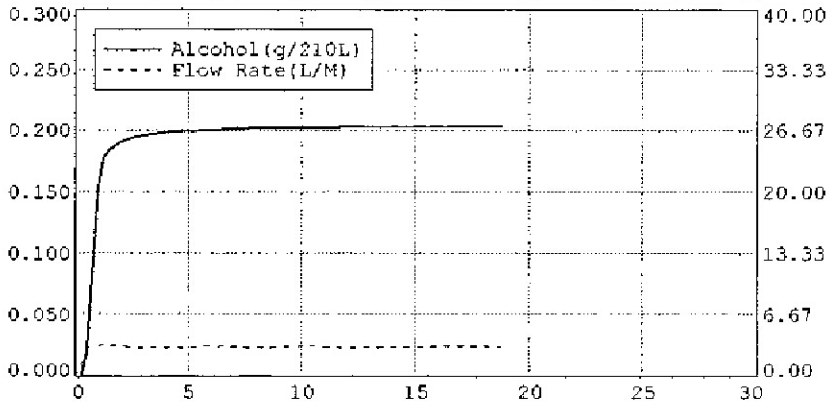
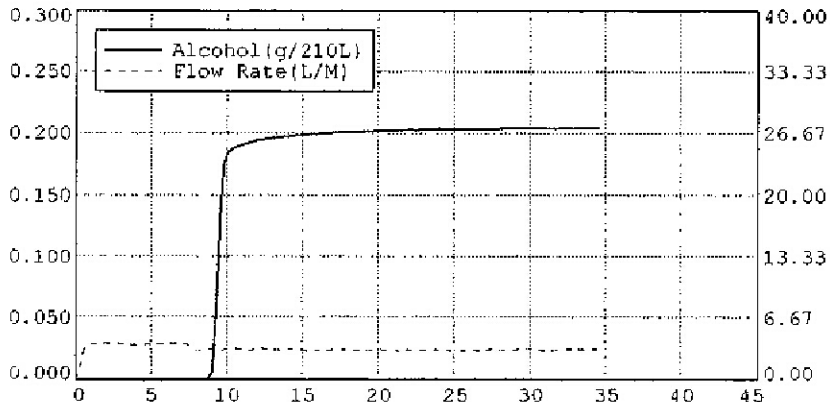
Date: 08/22/2014
 Time: 14:49:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 14130
 EXPIRATION: 05/12/2016

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.205	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.204	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.204	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.204	14:56
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.204	14:57
BLANK TEST	0.000	14:58

Average = 0.2046
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

 Alaska Department of Public Safety
 DATAMASTER dmt: 100684

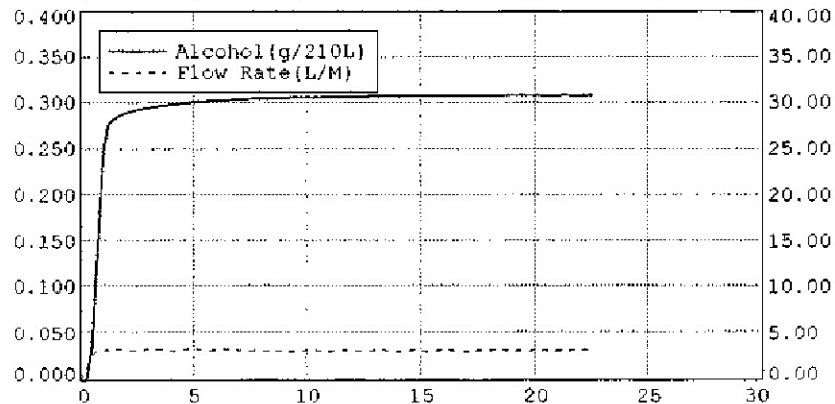
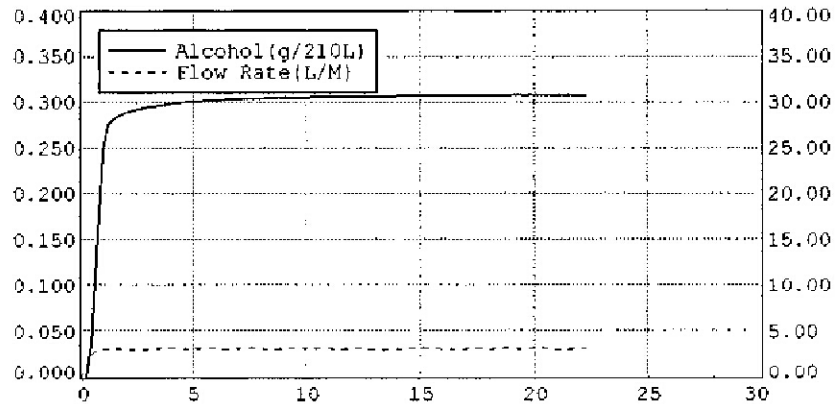
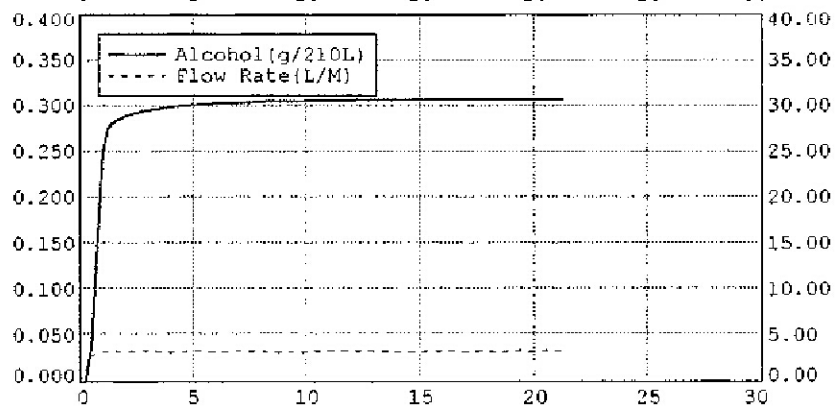
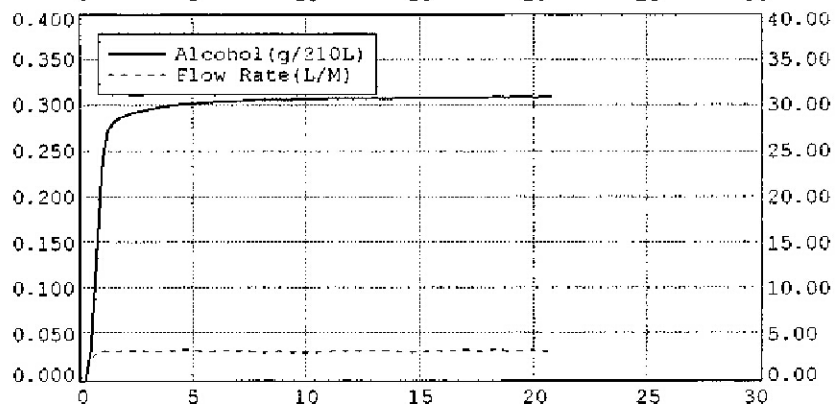
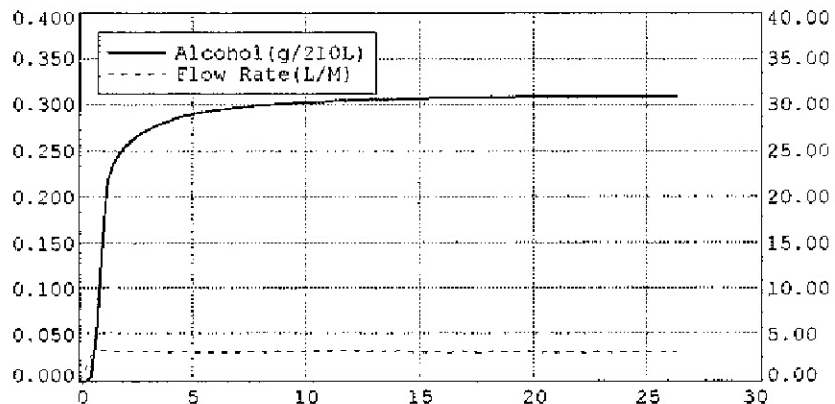
Date: 08/22/2014
 Time: 14:59:53

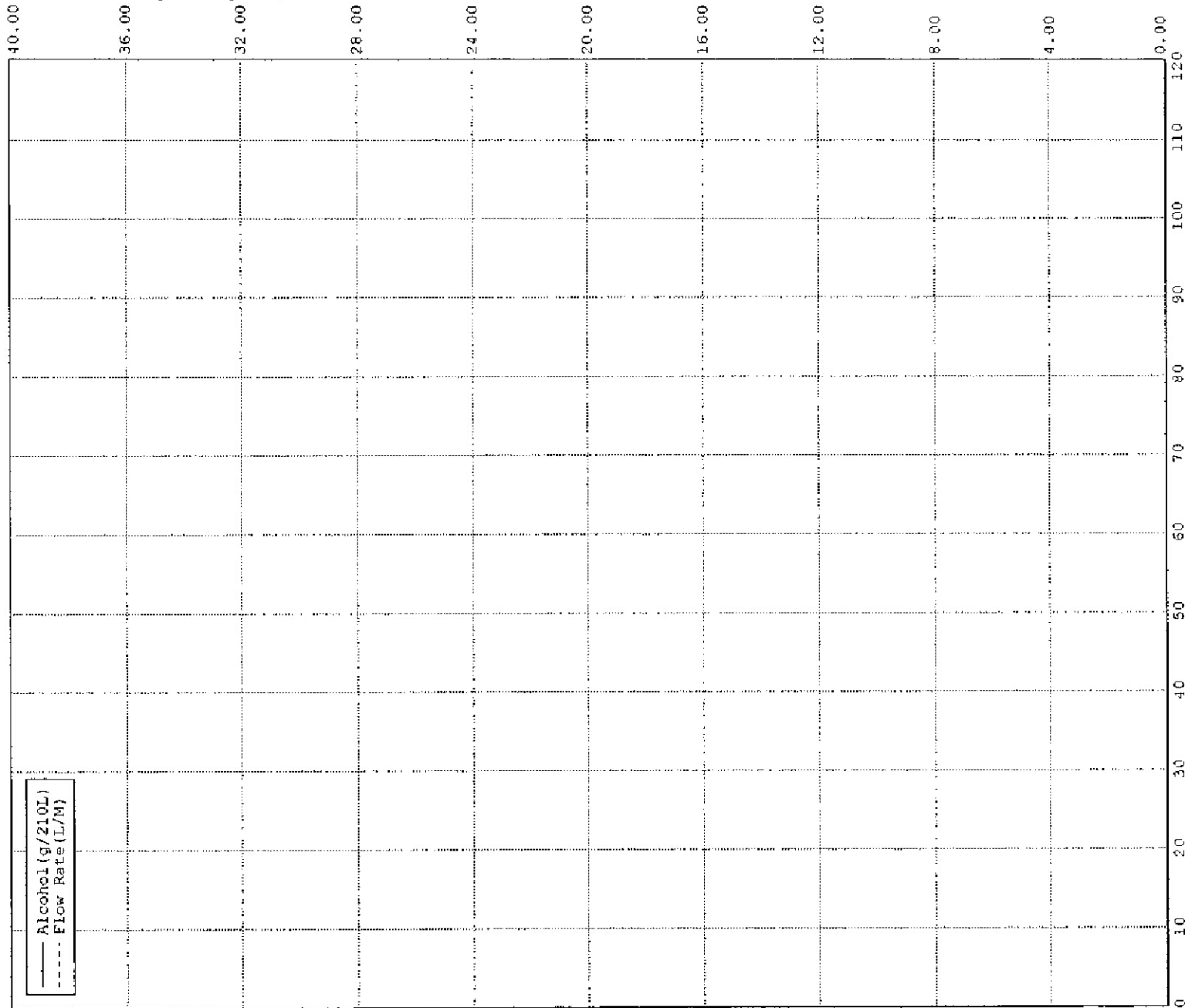
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.308	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.308	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.307	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.308	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.308	15:07
BLANK TEST	0.000	15:08

Average = 0.3084
 Std Dev = 0.0004





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100684

 Date: 08/22/2014
 Time: 15:55:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

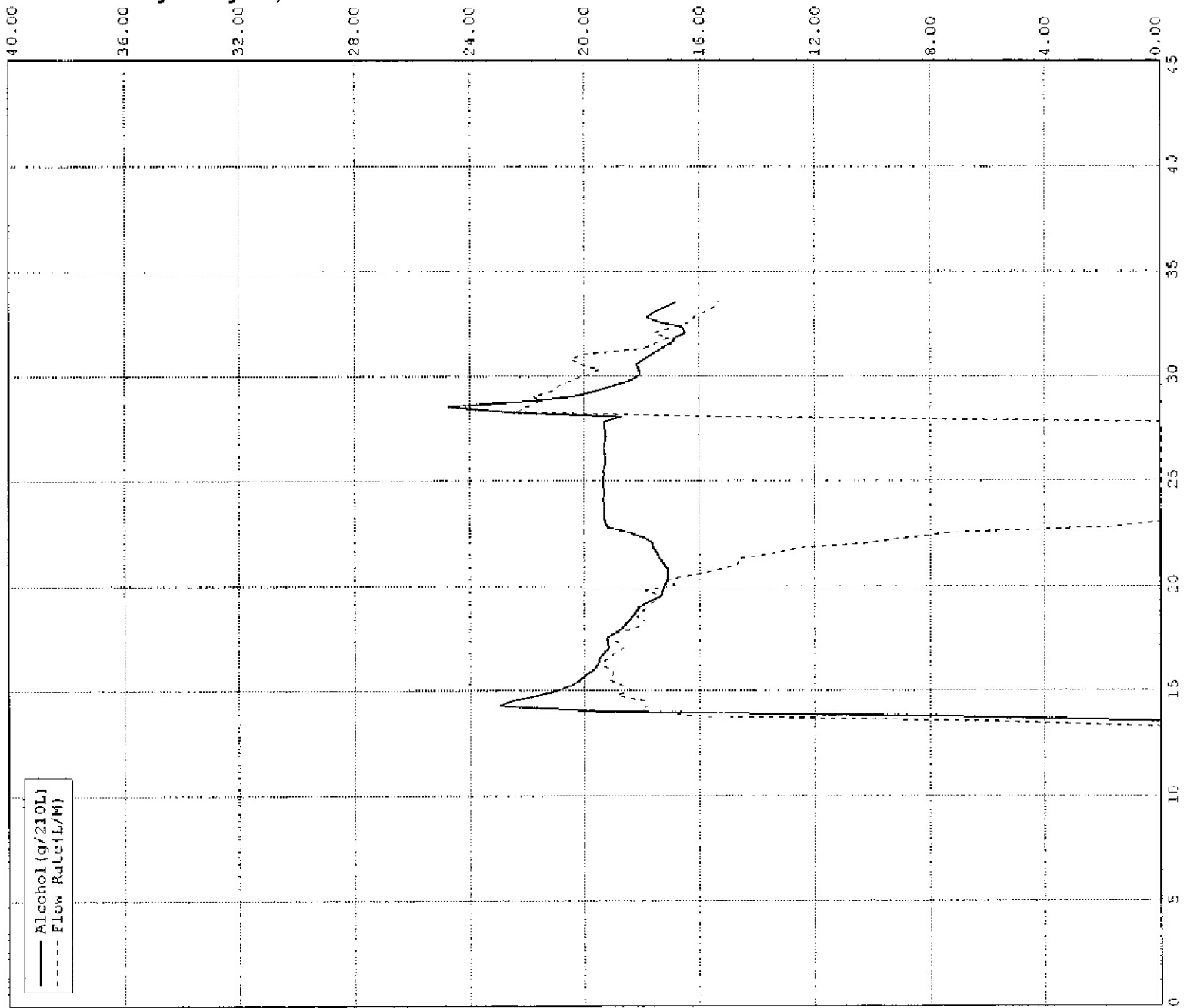
DEPT/AGENCY:
 AAAA

CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 15:56
 BLANK TEST 0.000 15:56
 INTERNAL STANDARD VERIFIED 15:56
 EXTERNAL STANDARD 0.079 15:56
 BLANK TEST 0.000 15:57
 SUBJECT SAMPLE INCOMPLETE 15:59

COB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100684

 Date: 08/22/2014
 Time: 15:38:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAAA

CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 15:44
 BLANK TEST 0.000 15:44
 INTERNAL STANDARD VERIFIED 15:44
 EXTERNAL STANDARD 0.079 15:45
 BLANK TEST 0.000 15:46
 SUBJECT SAMPLE INVALID 15:46

CB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 08/22/2014
Time: 15:31:22

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

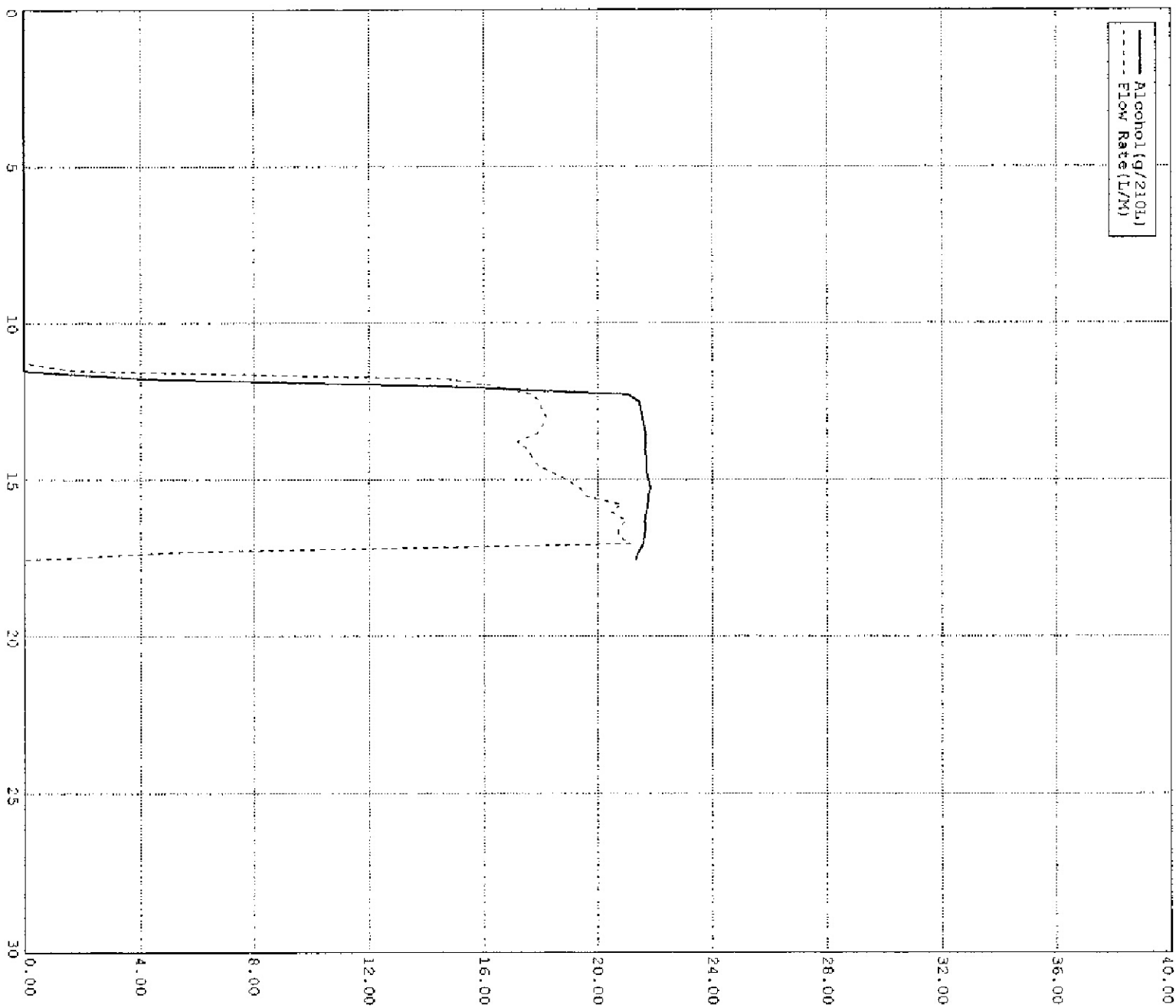
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 15:32
BLANK TEST 0.000 15:32
INTERNAL STANDARD VERIFIED 15:32
Xq = 0.092 (2.52%)
EXTERNAL STANDARD 0.079 15:33
X[1] = 0.0793 (0.0003) (0.0032)
BLANK TEST 0.000 15:33
SUBJECT SAMPLE INTERFERENCE 15:34
X[1] = 0.1067 (-0.0190) (0.0015)

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 08/22/2014
Time: 15:23:50

SUBJECT NAME:
TEST TEST
LICENSE #: INT-1PA

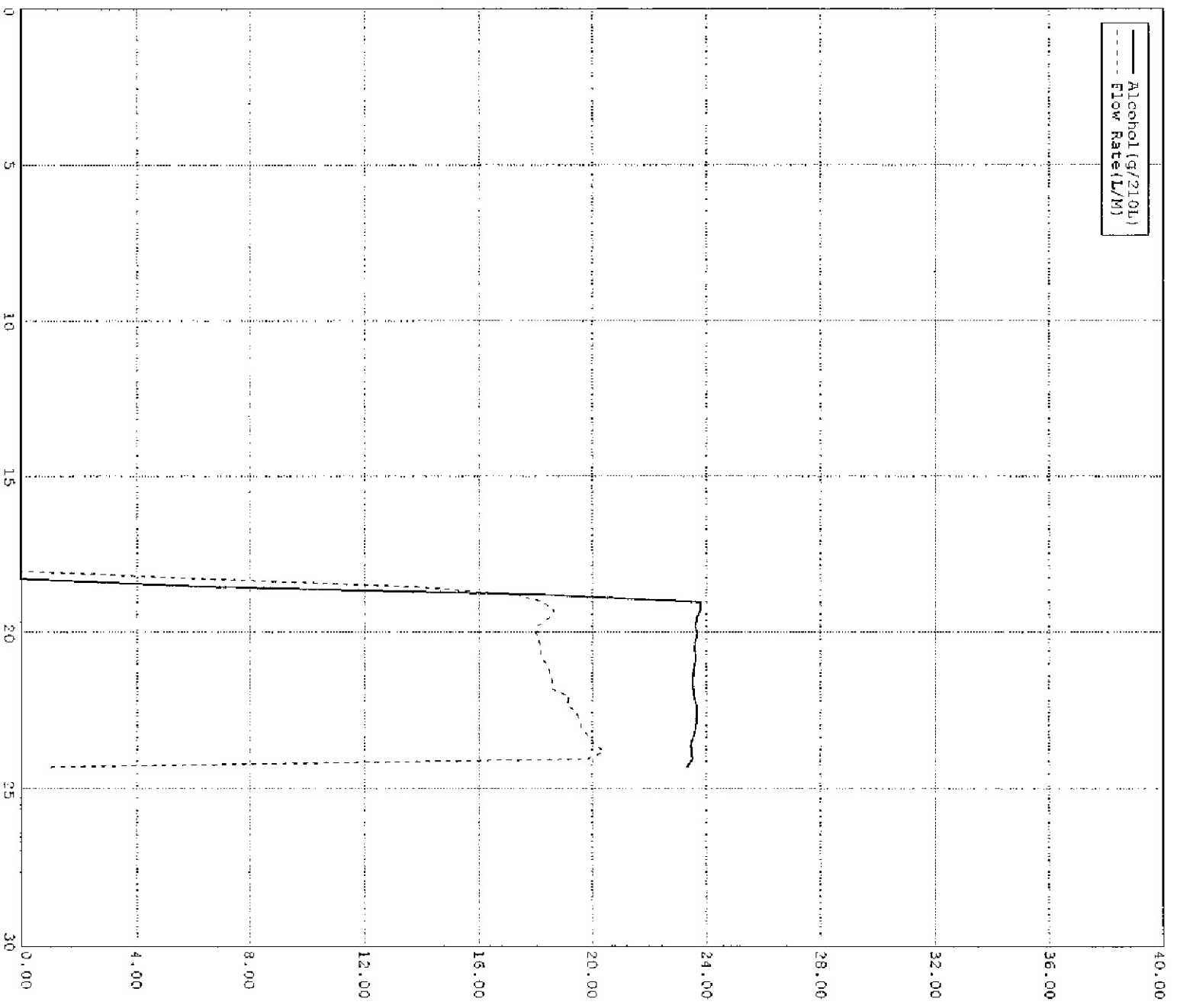
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
Xq = 0.093 (2.91%)		
EXTERNAL STANDARD	0.079	15:25
X[1] = 0.0794 (0.0004)	(0.0033)	
BLANK TEST	0.000	15:26
SUBJECT SAMPLE	INTERFERENCE	15:26
X[1] = 0.1170 (-0.0237)	(0.0016)	

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100684

Date: 08/22/2014
 Time: 15:12:26

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

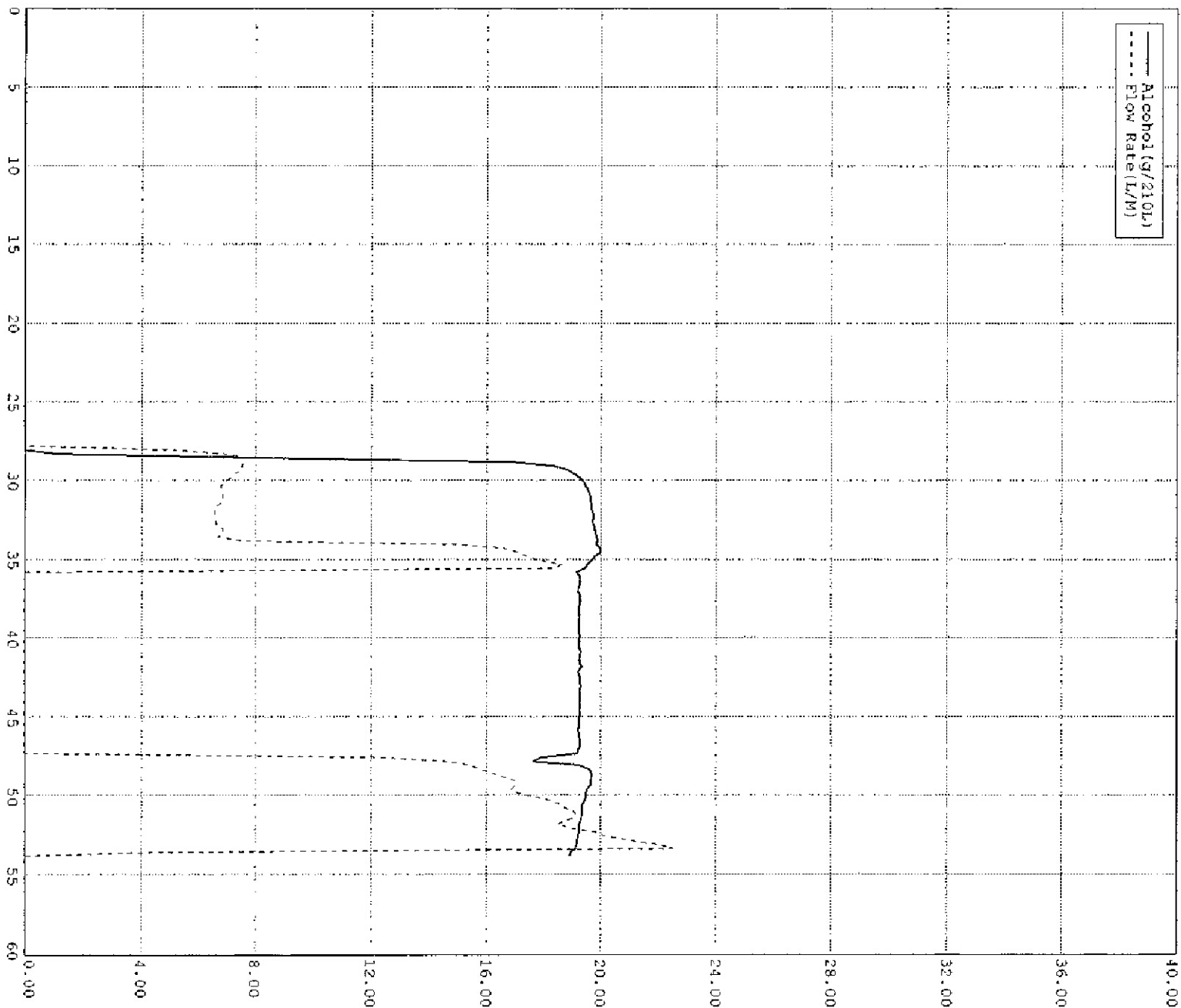
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAl
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:13
BLANK TEST	0.000	15:13
INTERNAL STANDARD	VERIFIED	15:13
Xq = 0.093 (2.91%)		
EXTERNAL STANDARD	0.079	15:14
X[1] = 0.0795 (0.0004)	(0.0027)	
BLANK TEST	0.000	15:15
SUBJECT SAMPLE (Vol=1.82L)	0.094	15:16
X[1] = 0.0944 (-0.0010)	(0.0002)	
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.079	15:17
X[1] = 0.0791 (0.0004)	(0.0028)	
BLANK TEST	0.000	15:18

Filter says: 0.0004
~~0.0005~~ (0.0054)
Filter says: 0.0030



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER Gmt: 100684

Date: 08/22/2014
Time: 15:49:56

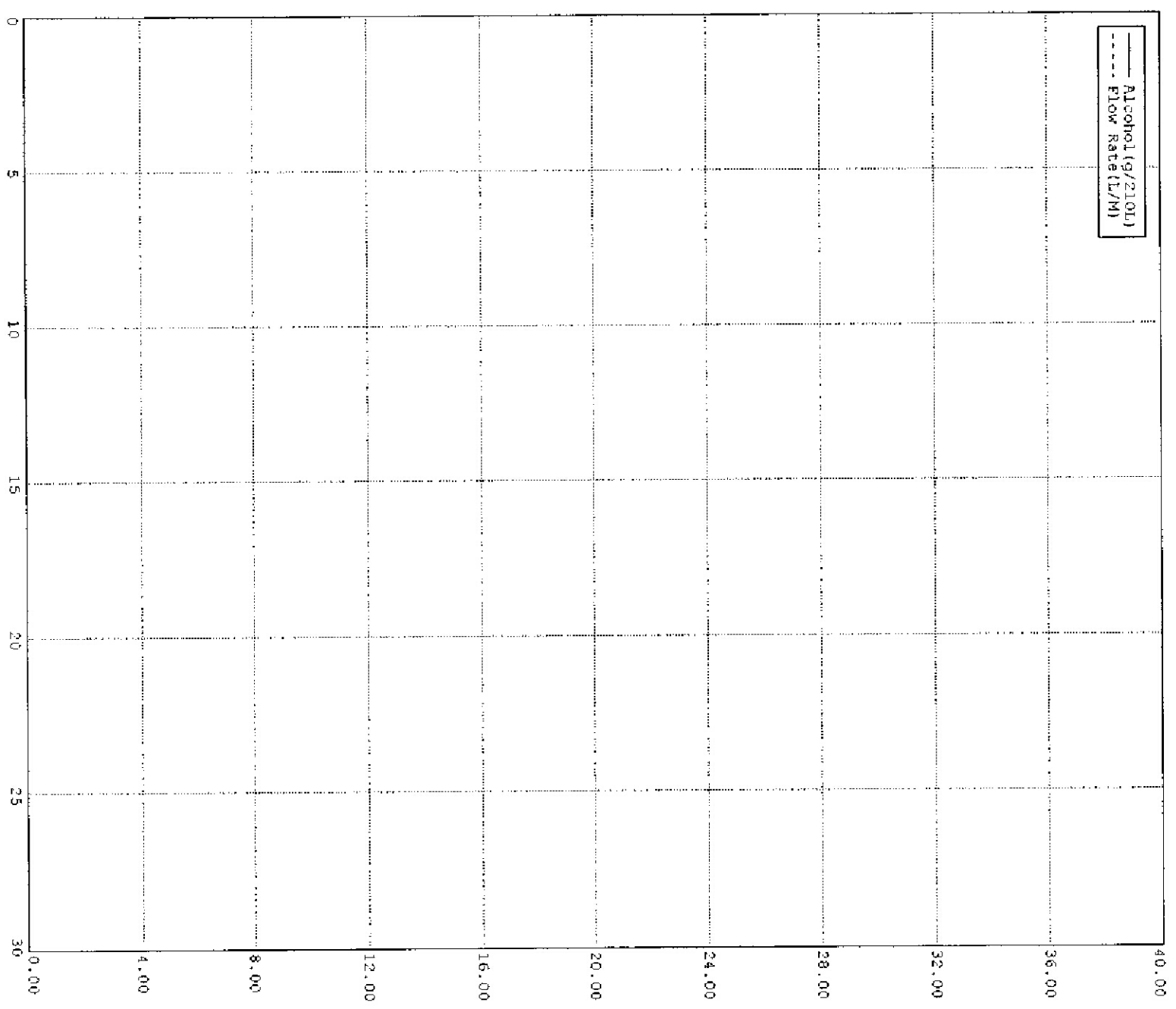
SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:51
INTERNAL STANDARD 0.000 15:51
EXTERNAL STANDARD VERIFIED 15:51
0.079 15:51
BLANK TEST 0.000 15:52
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100684

Date: 08/25/2014
Time: 06:17:20

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

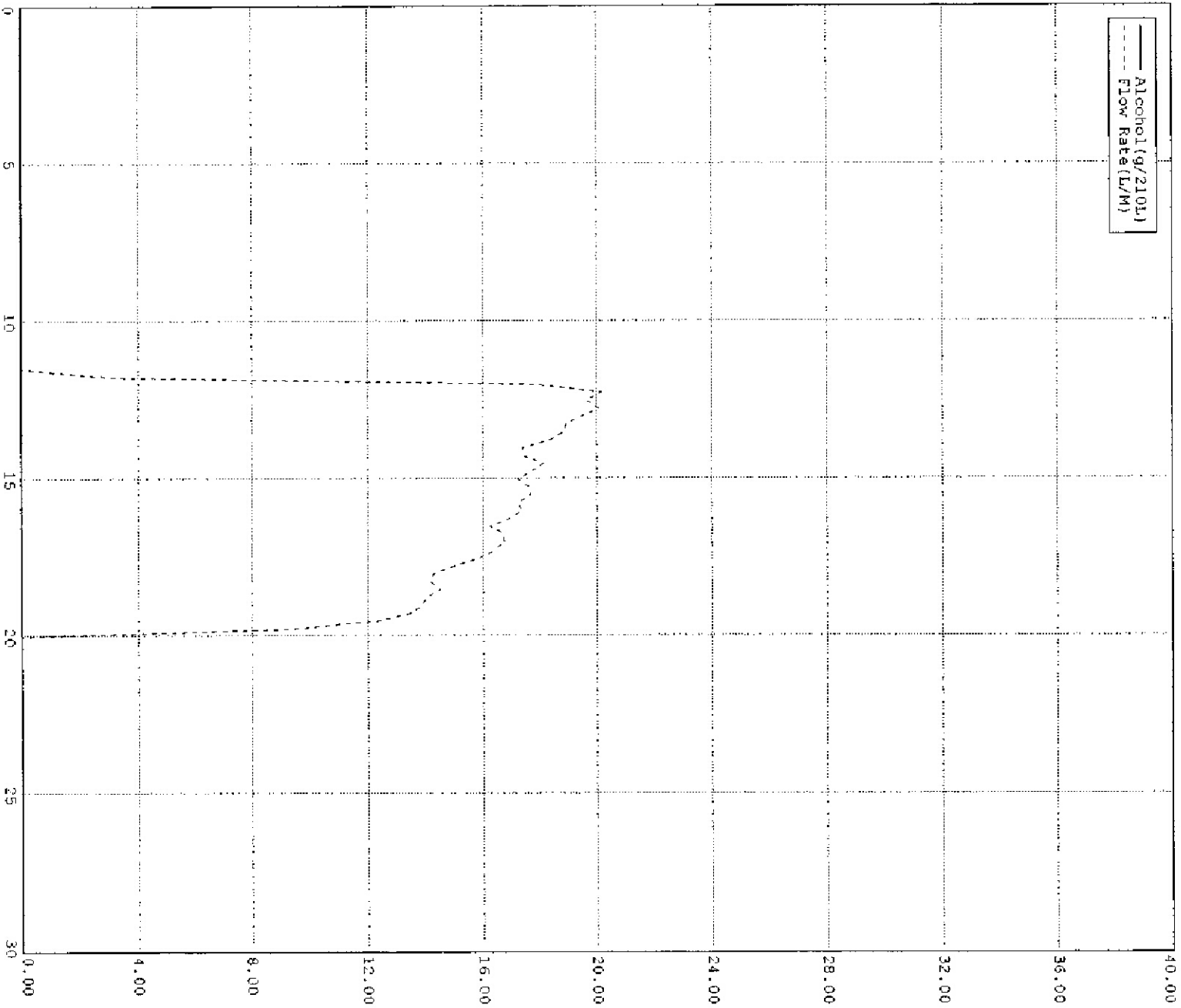
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.38: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	06:18
BLANK TEST	0.000	06:18
INTERNAL STANDARD	VERIFIED	06:18
EXTERNAL STANDARD	0.078	06:19
BLANK TEST	0.000	06:20
SUBJECT SAMPLE	0.000	06:20
BLANK TEST	0.000	06:21
EXTERNAL STANDARD	0.078	06:21
BLANK TEST	0.000	06:22

CS



Final page for report

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12/2/2014