

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012Version: DMCEF2012 R0
Status: ActiveInstrument S/N 100678Analyst Colleen O'BryantStart Date 3/22/12Confirmed software update (2.00) and instrument ^{was} back-vented.
Diagnostic Test (attached) ☒ + USB Fix CUB 3/22/12

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 1400 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N SD1176 Date Calibrated 08/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N SD602 Date Calibrated 08/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012d. RFI ☒6. Verify stylus is calibrated ☒10. Verification of Calibration ☒7. Verify card reader is functional ☒11. Non-Drinking Subject Test (attached) ☒8. Reset Options ☒12. Upload ☒9. Clear Memory ☒13. Update agency information and polling
status in DM Host Calling Program ☒ N/AEnd Date 3/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 03/22/2012
Time: 14:14:00

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.6°C	PASSED

PUMP INFO

Flow Rate = 5.135 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

INTERNAL STANDARD	PASSED
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03/2/18

Technician Screen

DATAMASTER dmt: 100678

Date: 03/22/2012

Time: 2:25 PM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.2°C

Current Barometer 29.9 in

Volume (Ltr) 1.59

Settings

Lamp: 1.63 V

Bias: 81 V

Cooler: 1.58 V

Chopper: 516 Hz

Voltages (V)

Flow: 1.07 V

Detector: -0.070 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 10/26/2011
Time: 06:16:45

Ca = 0.1000
CAL = 0.980683 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0025 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0821 0.0500 <= Xq < 0.2000
a21 = 1.104995 1.050 <= a21 < 1.300
a31 = 0.461169 0.300 <= a31 < 0.800

COB 4/18

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 03/22/2012
 Time: 14:30:43

SUBJECT NAME:
 TEST TEST
 LICENSE #: 1234567

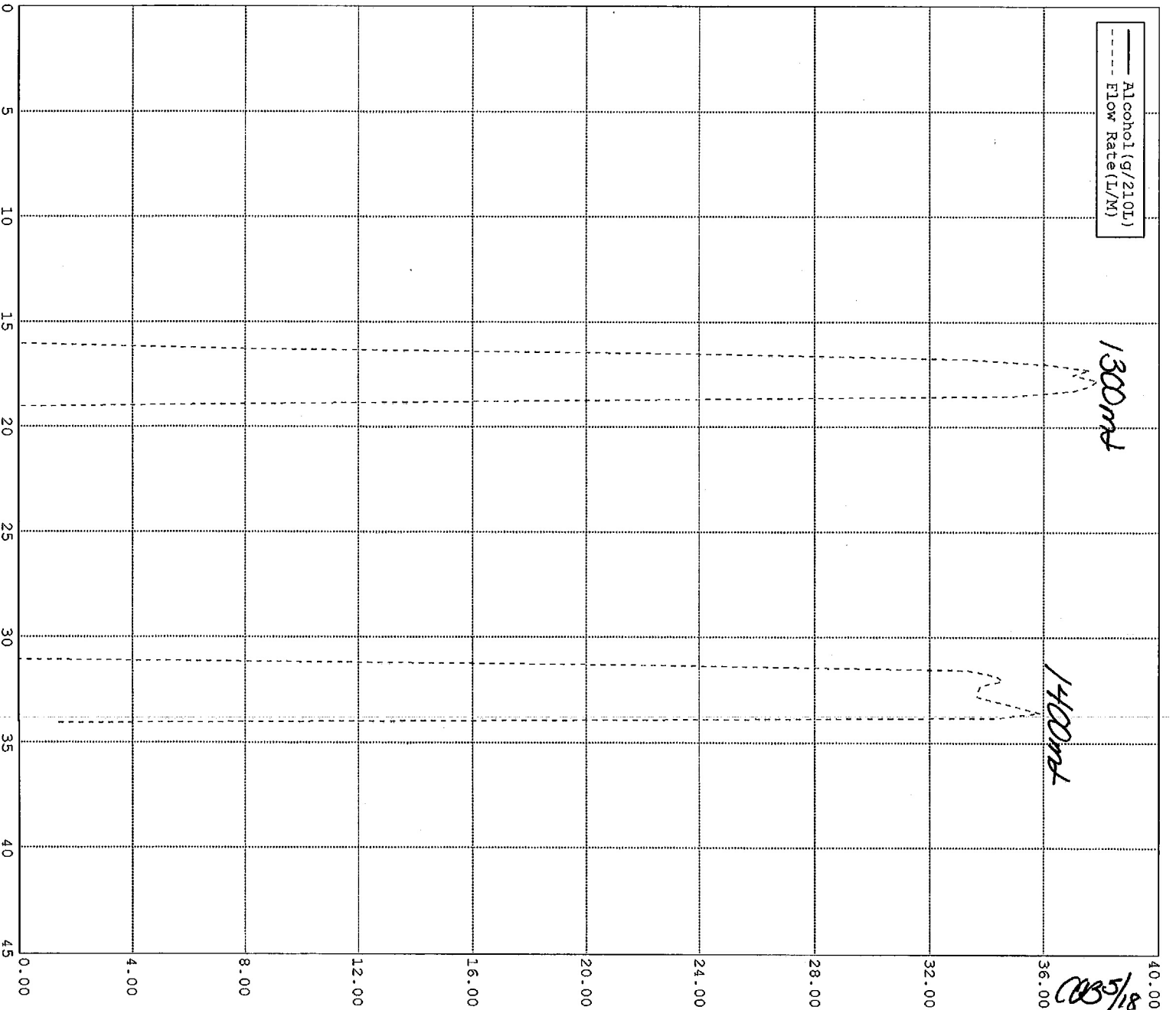
OPERATOR NAME:
 VOLUME TEST VOLUME TEST
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:31
BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.079	14:32
BLANK TEST	0.000	14:33
SUBJECT SAMPLE	0.000	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.079	14:34
BLANK TEST	0.000	14:35

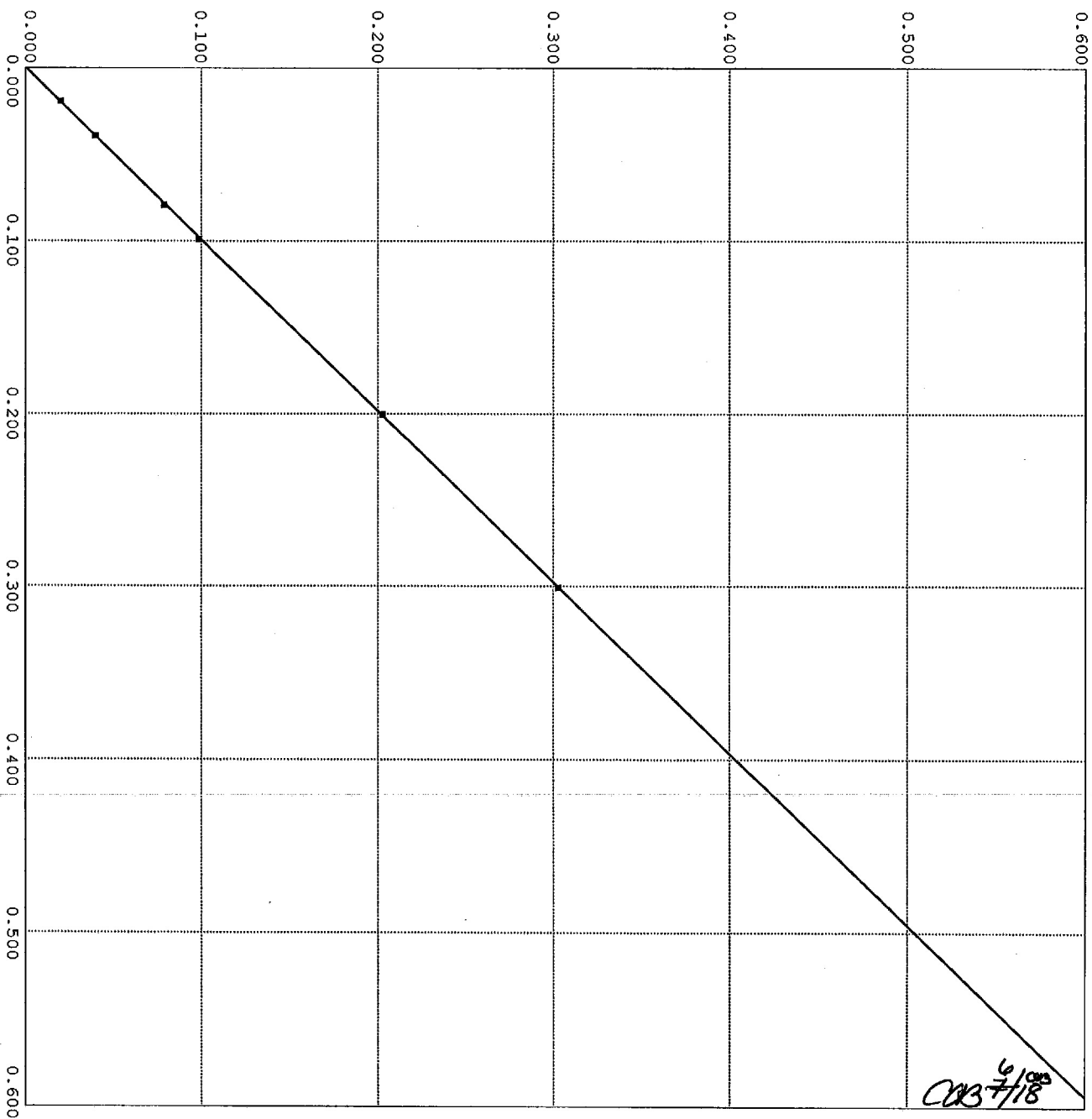
CGK 3/22/12



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100678Date: 03/22/2012
Time: 14:38:51SUPERVISOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0207	0.0001
0.039	0.0403	0.0003
0.079	0.0798	0.0001
0.099	0.0996	0.0002
0.200	0.2036	0.0002
0.300	0.3036	0.0004

SLOPE = 1.010005
 R^2 = 0.999947

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100678

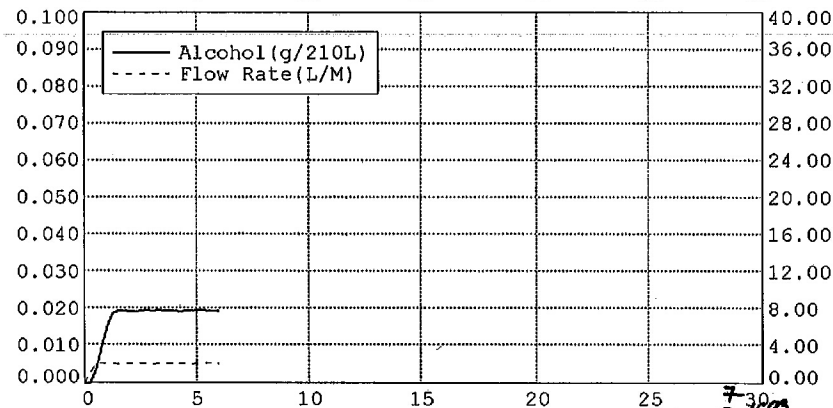
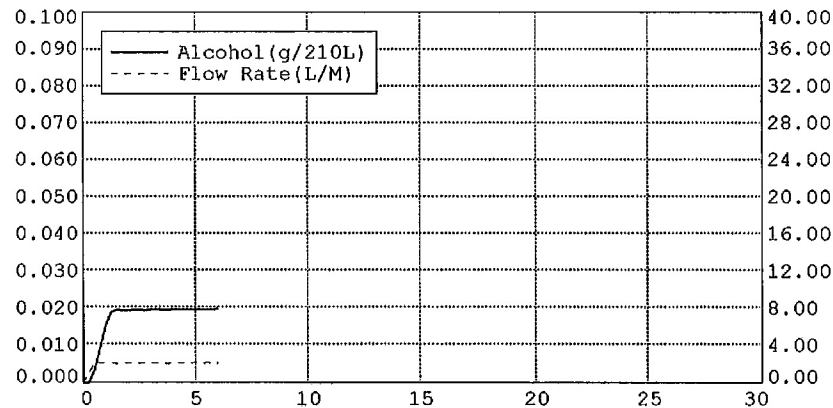
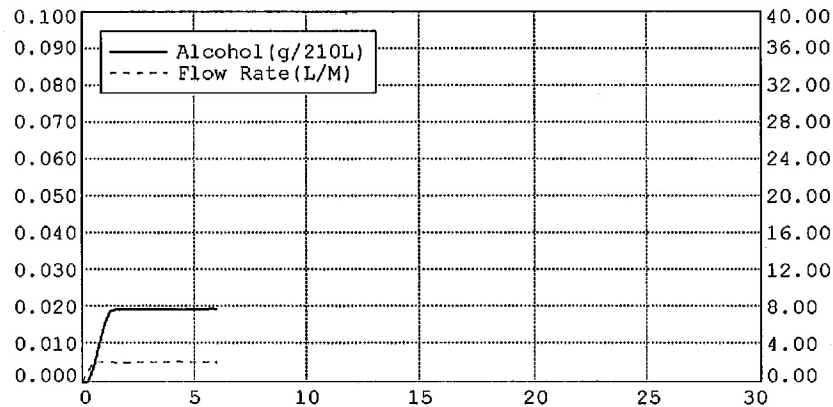
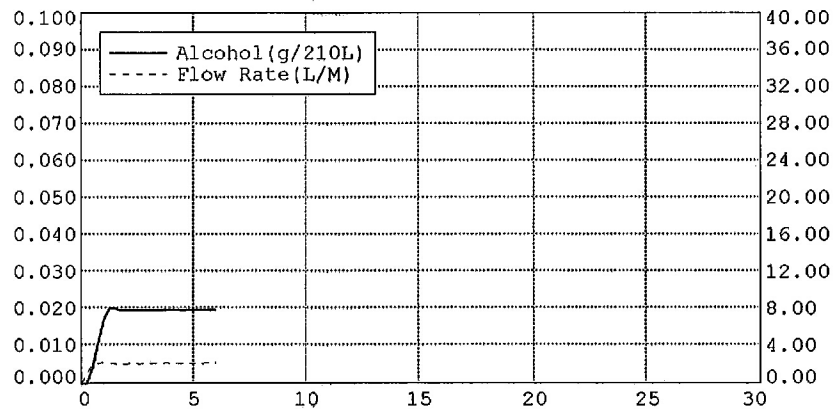
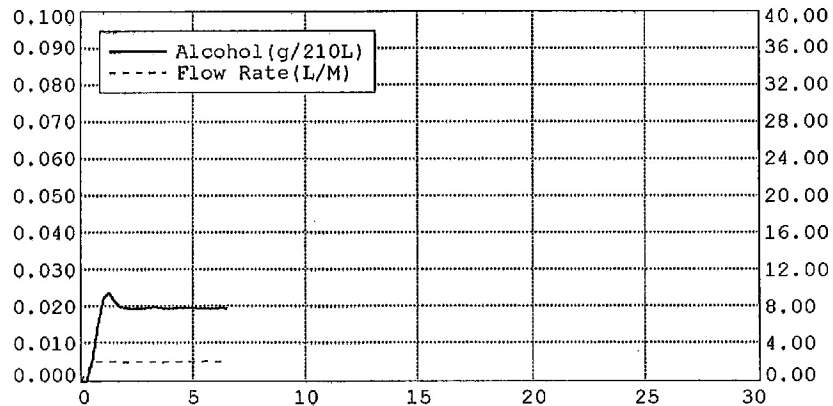
Date: 03/22/2012
Time: 14:38:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.91: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.020	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.020	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.020	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.020	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.020	14:44
BLANK TEST	0.000	14:45

Average = 0.0207
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100678

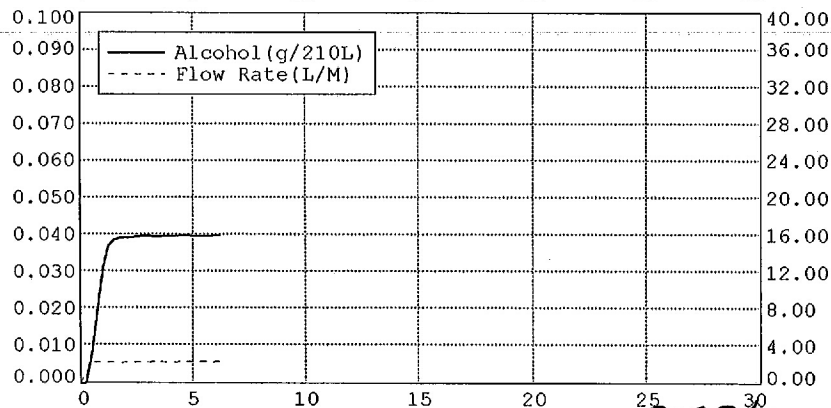
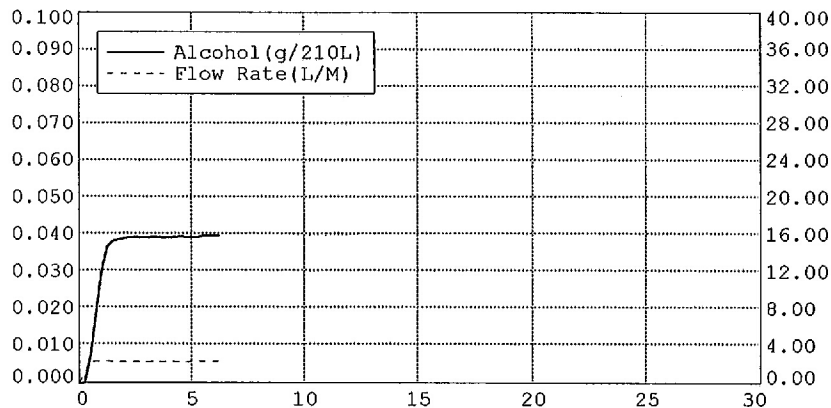
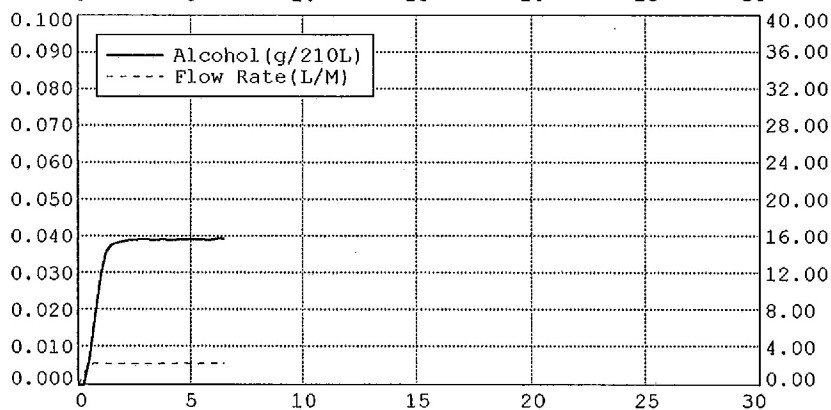
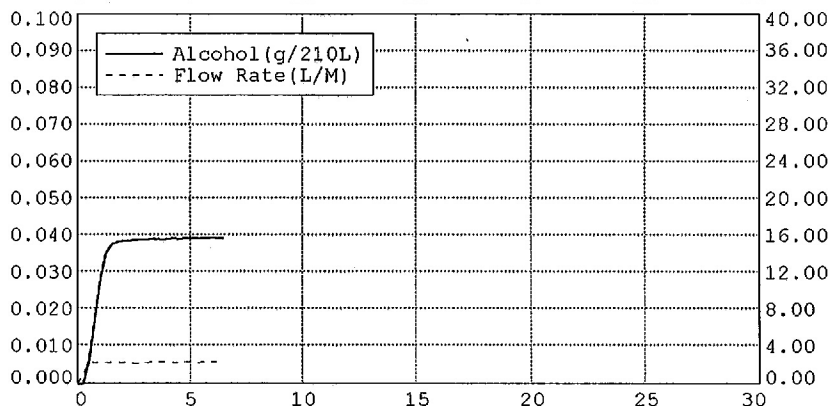
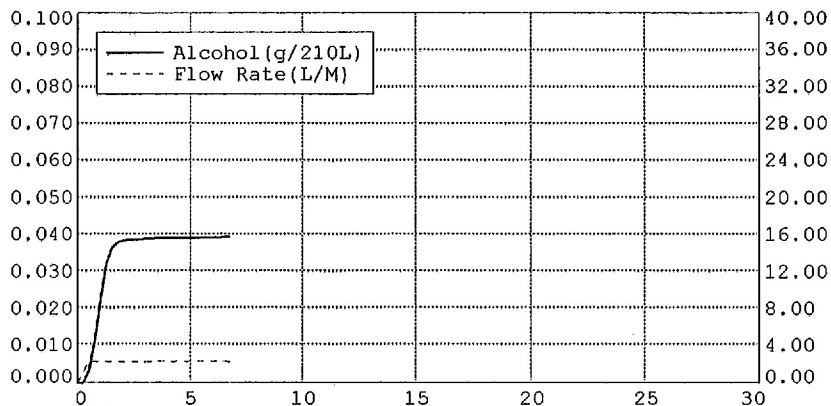
Date: 03/22/2012
Time: 14:47:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.91: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.040	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.040	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.040	14:51
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.040	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.040	14:53
BLANK TEST	0.000	14:54

Average = 0.0403
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100678

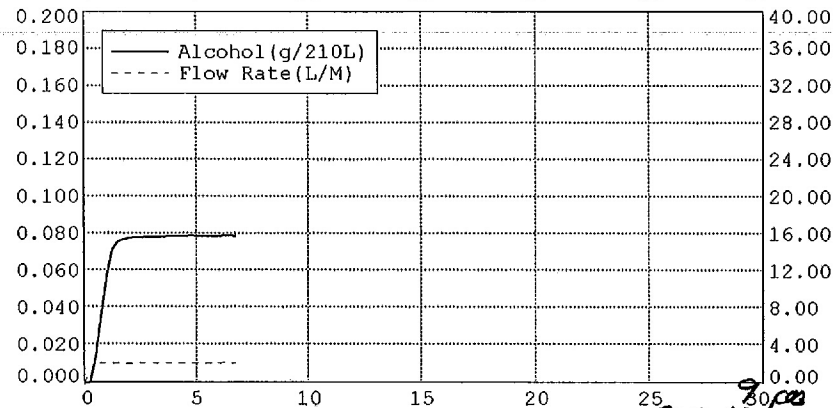
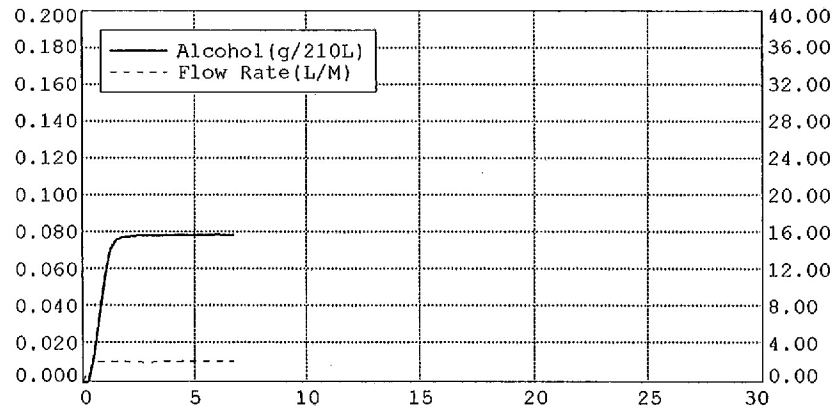
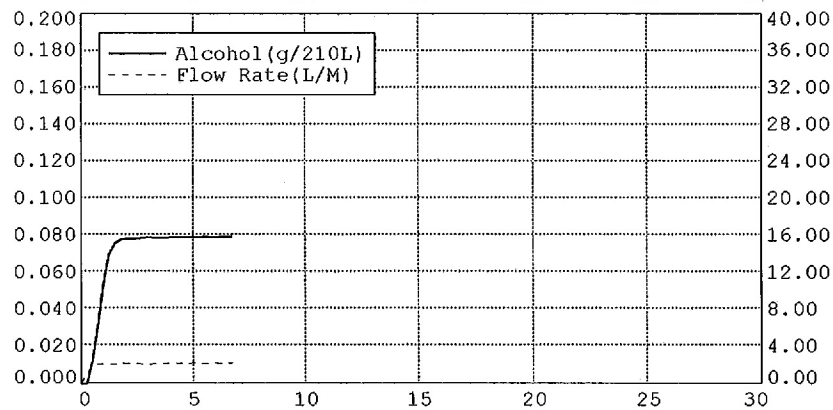
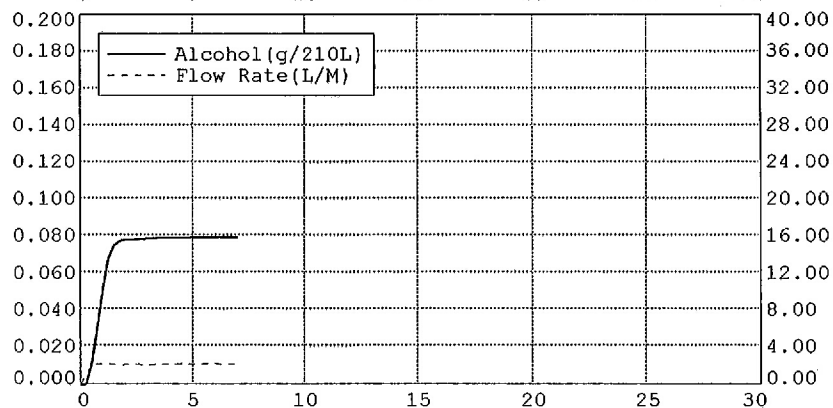
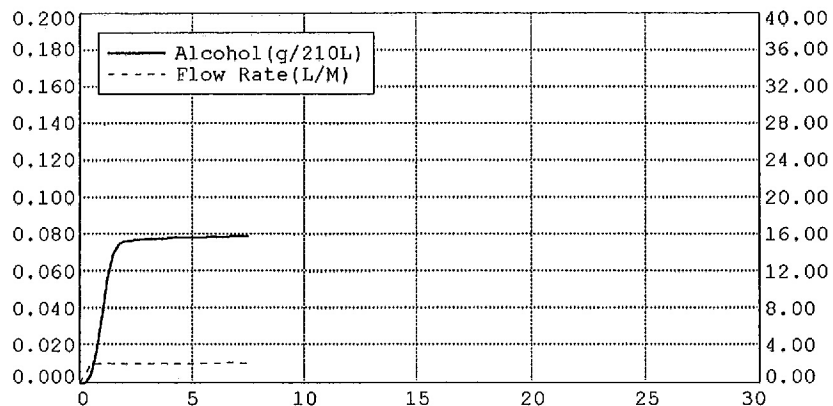
Date: 03/22/2012
Time: 14:55:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.079	14:58
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.079	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.079	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.079	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.079	15:02
BLANK TEST	0.000	15:03

Average = 0.0798
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100678

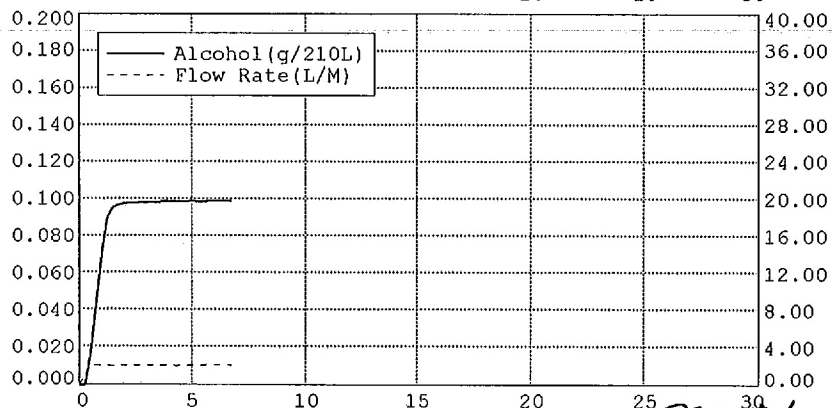
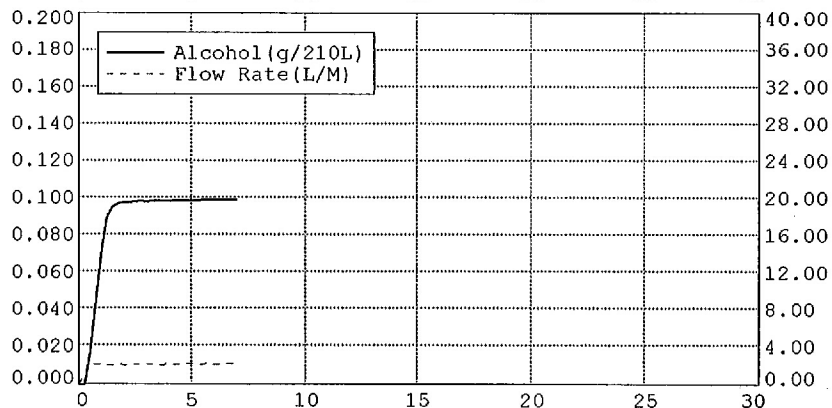
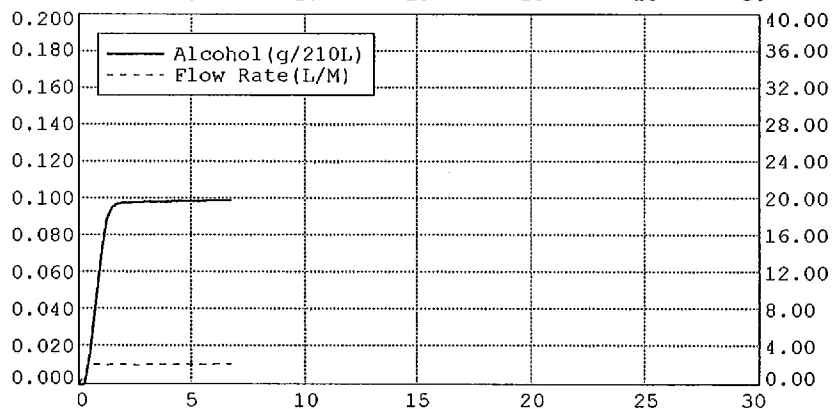
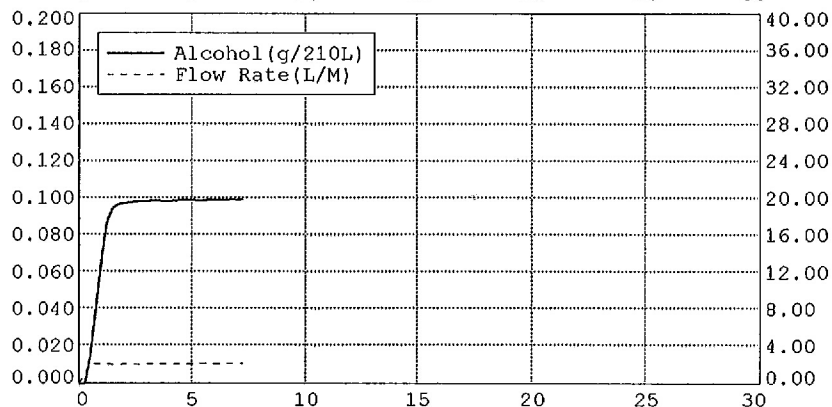
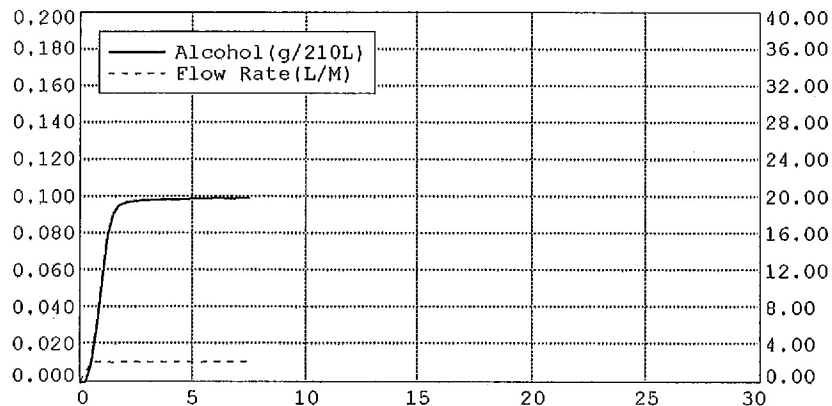
Date: 03/22/2012
Time: 15:06:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.92: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.099	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.099	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.099	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.099	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.099	15:13
BLANK TEST	0.000	15:14

Average = 0.0996
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 03/22/2012
Time: 15:17:47

EXTERNAL STANDARD INFORMATION

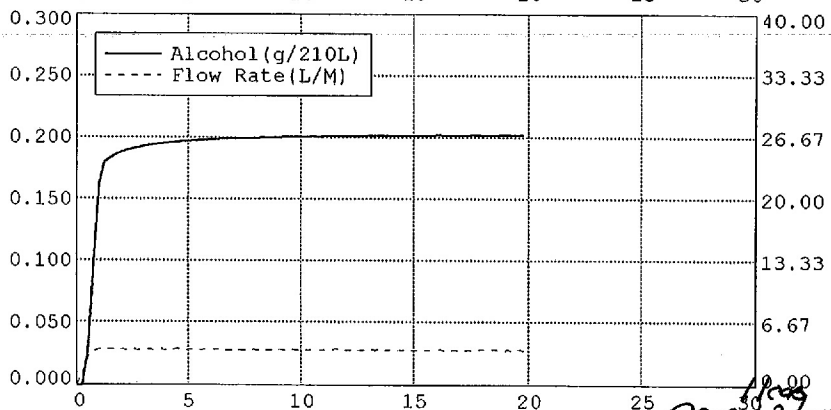
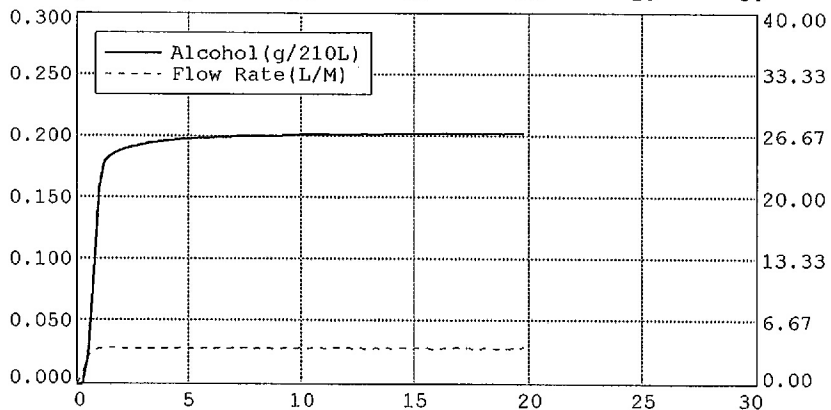
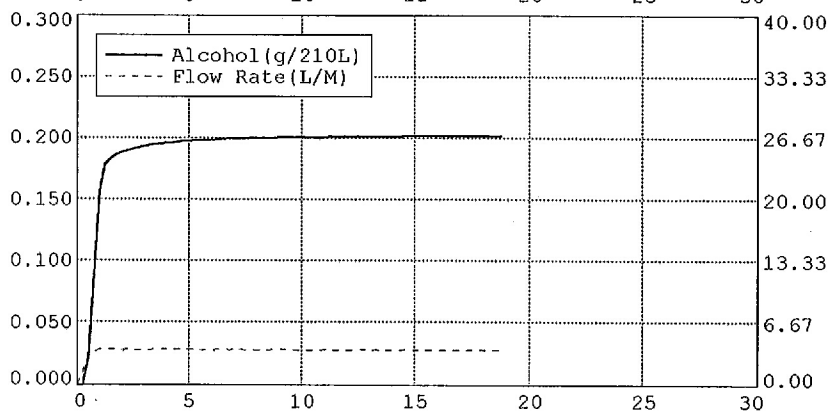
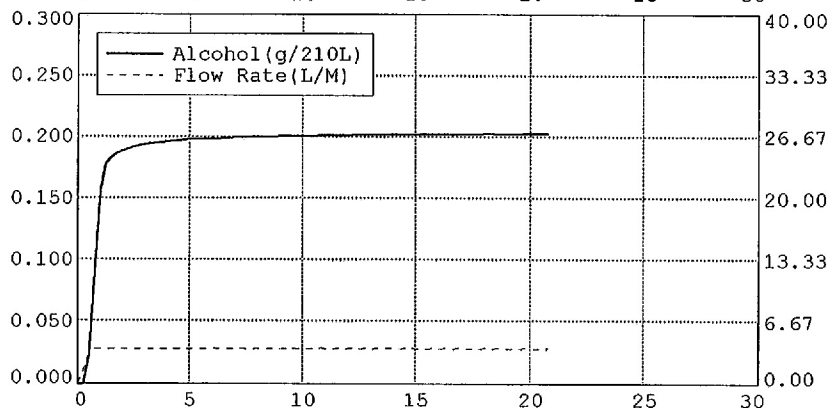
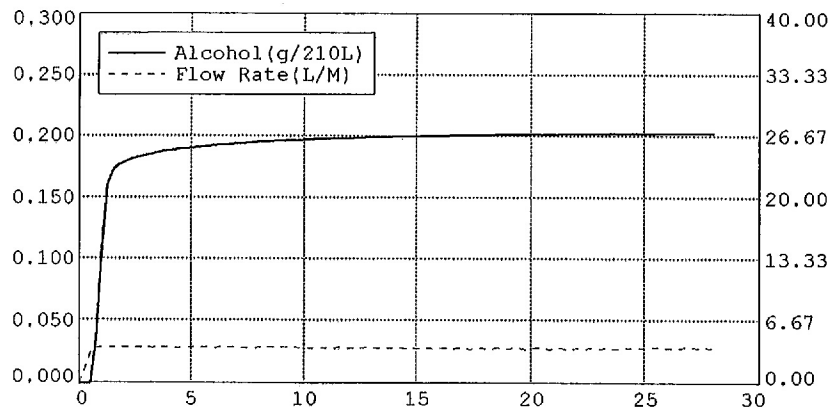
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:19
INTERNAL STANDARD	VERIFIED	15:19
EXTERNAL STANDARD	0.203	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.203	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.203	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.203	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.203	15:25
BLANK TEST	0.000	15:26

Average = 0.2036
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100678

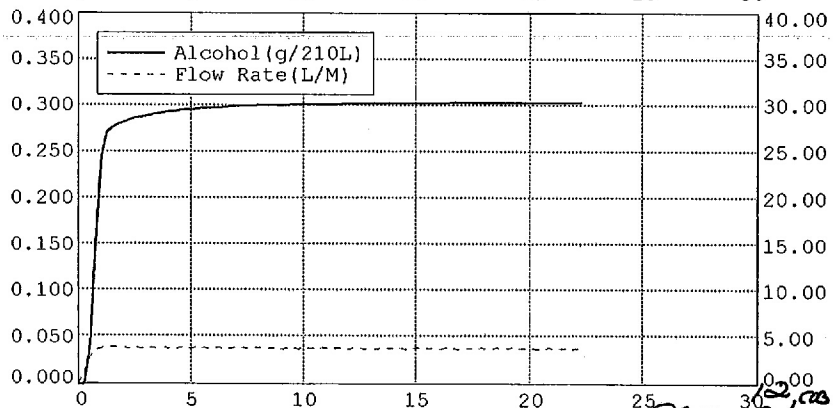
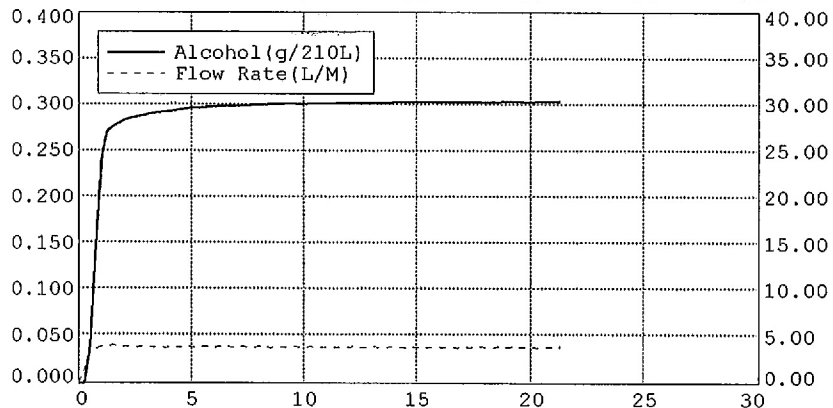
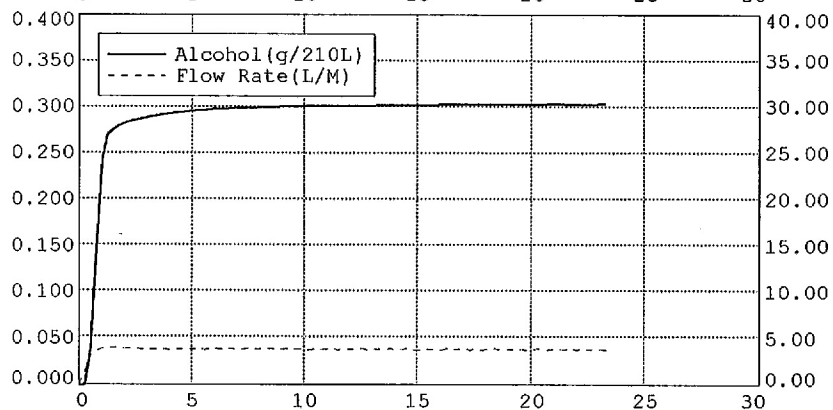
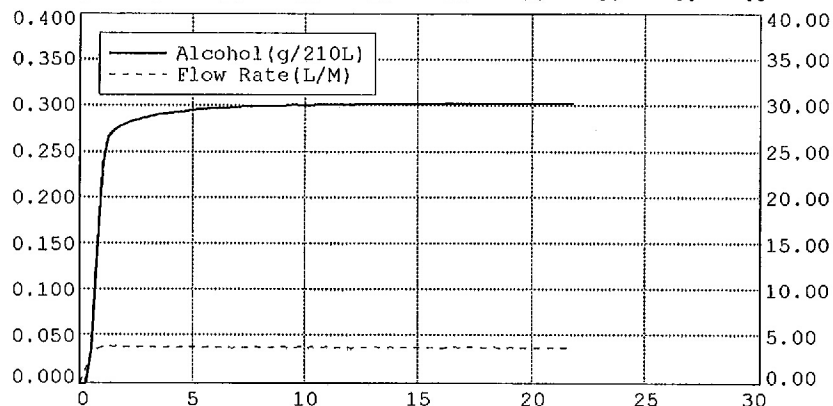
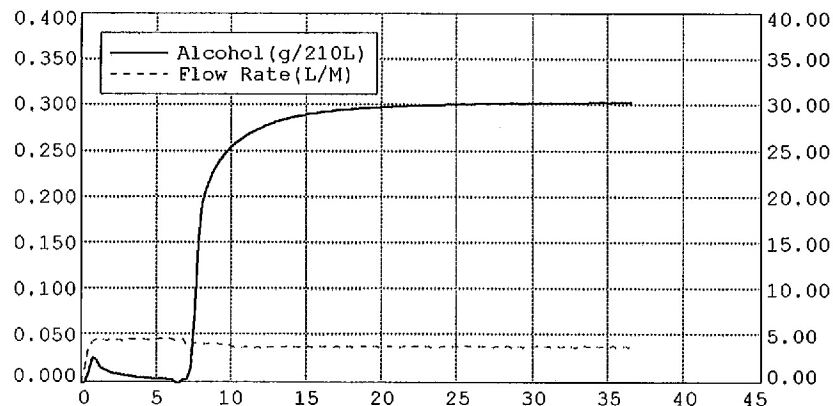
Date: 03/22/2012
Time: 15:27:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.303	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.303	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.303	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.303	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.304	15:34
BLANK TEST	0.000	15:35

Average = 0.3036
Std Dev = 0.0004

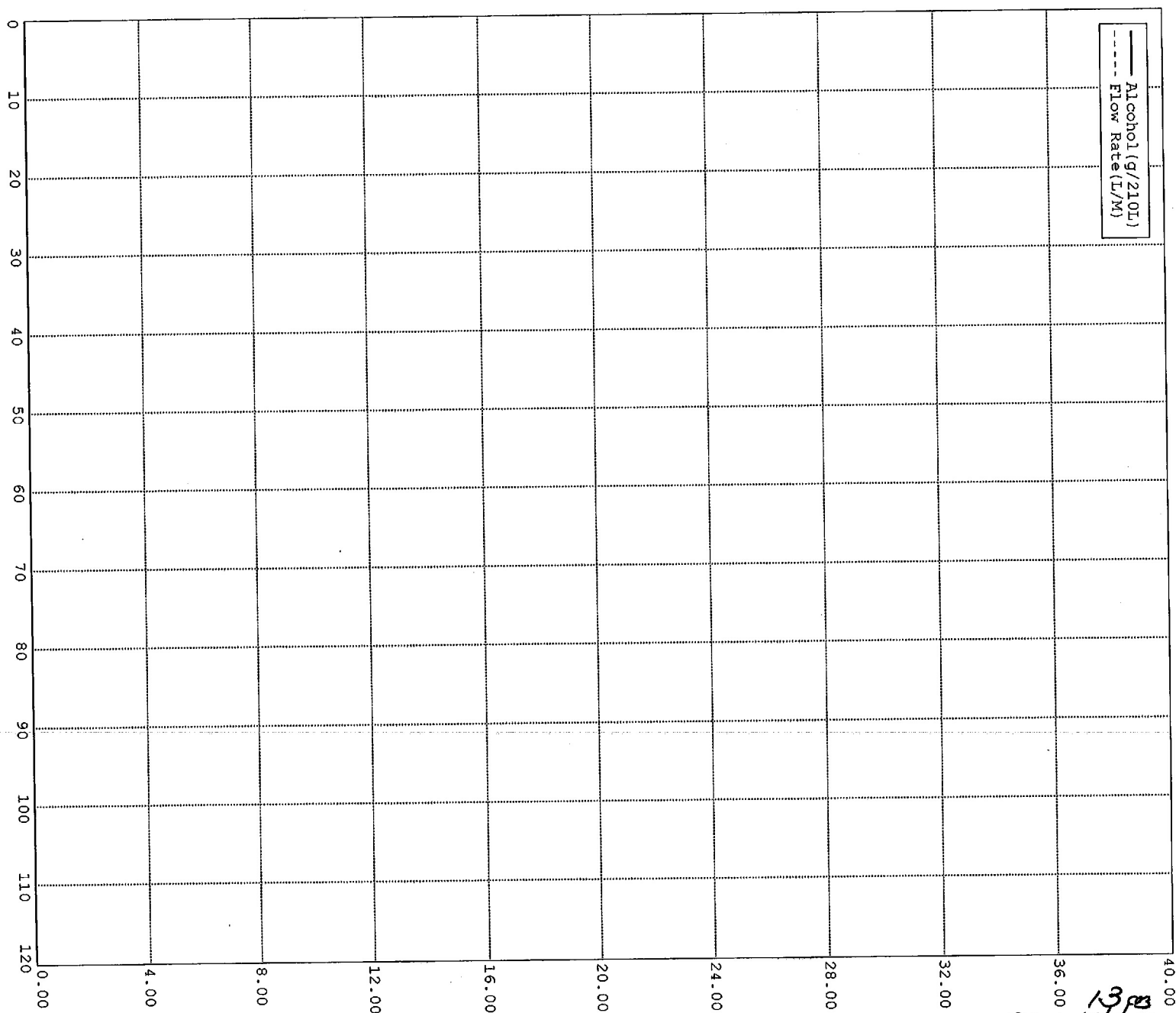


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100678Date: 03/23/2012
Time: 07:10:02SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:11
BLANK TEST	0.000	07:11
INTERNAL STANDARD	VERIFIED	07:11
EXTERNAL STANDARD	0.079	07:11
BLANK TEST	0.000	07:12
SUBJECT SAMPLE	INCOMPLETE	07:14

COB 3/23/12

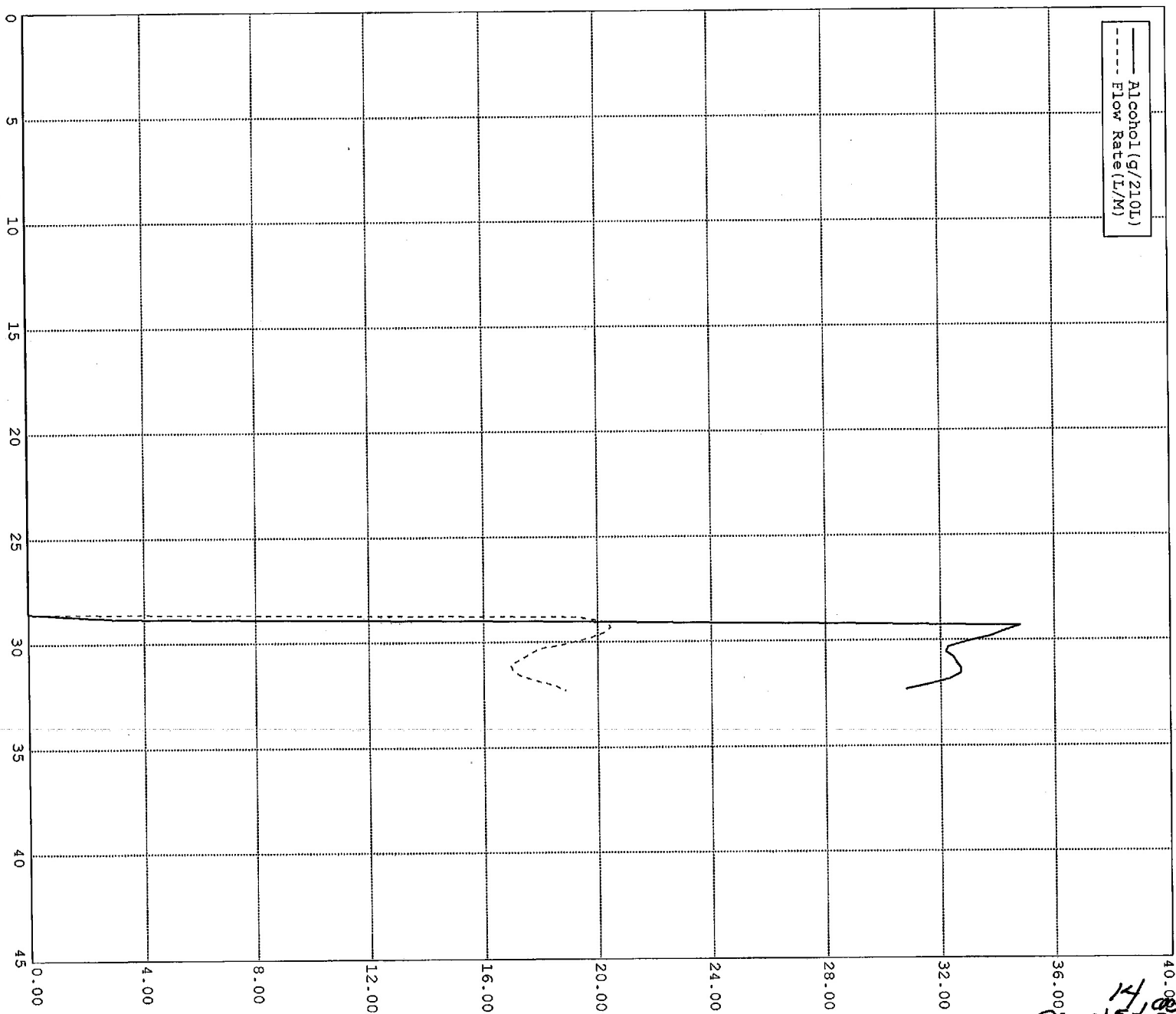


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100678Date: 03/23/2012
Time: 07:17:24SUBJECT NAME:
TEST TEST **INVALID 083/2712**
LICENSE #: ~~INDEFINITE~~OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:18
BLANK TEST	0.000	07:18
INTERNAL STANDARD	VERIFIED	07:18
EXTERNAL STANDARD	0.079	07:19
BLANK TEST	0.000	07:20
SUBJECT SAMPLE	INVALID	07:20

CUB 3/23/12

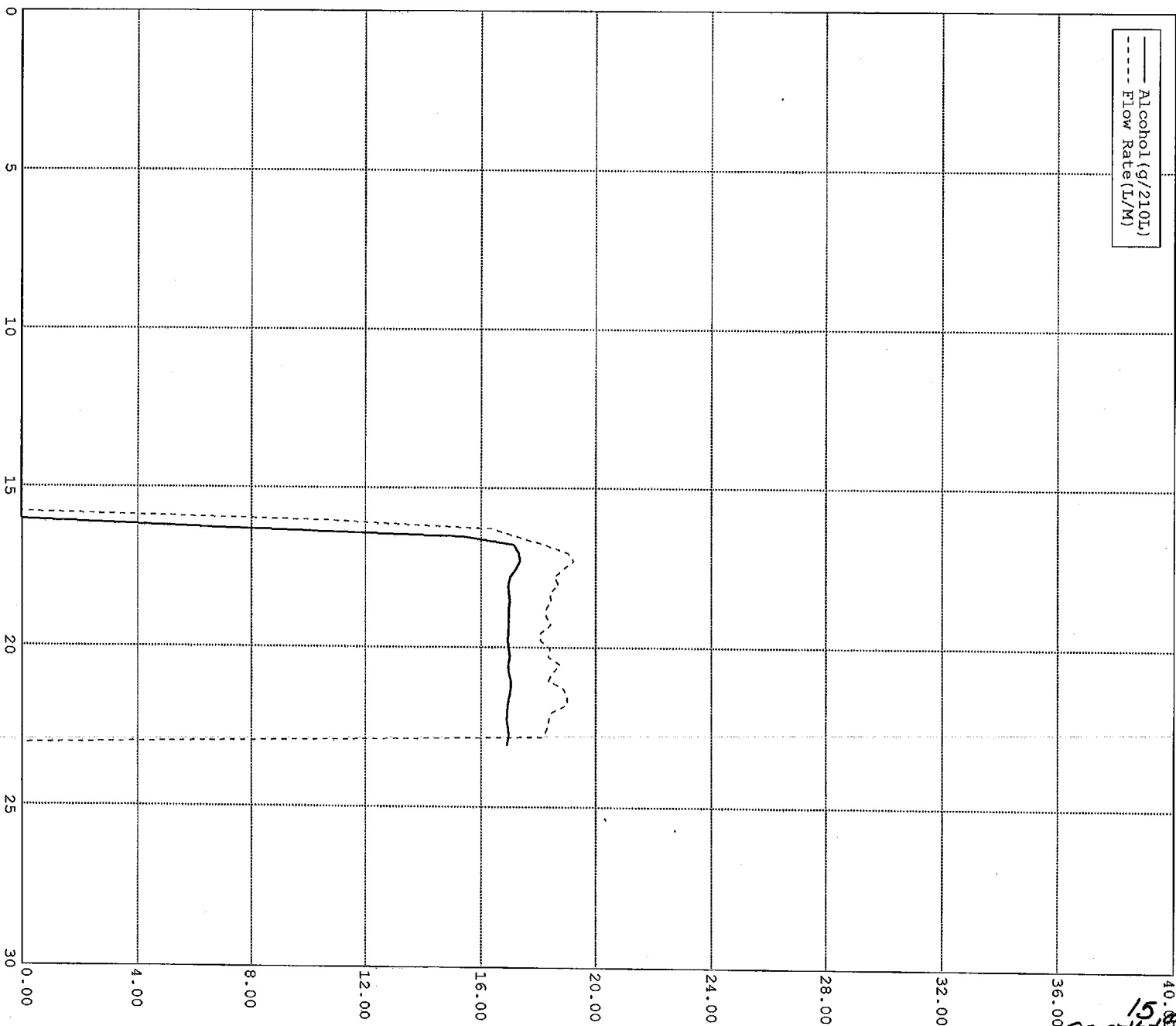


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678Date: 03/23/2012
Time: 07:32:58SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:35
BLANK TEST	0.000	07:35
INTERNAL STANDARD	VERIFIED	07:35
EXTERNAL STANDARD	0.079	07:35
BLANK TEST	0.000	07:36
SUBJECT SAMPLE	INTERFERENCE	07:36

CUB 3/23/12



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 03/23/2012
 Time: 07:39:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

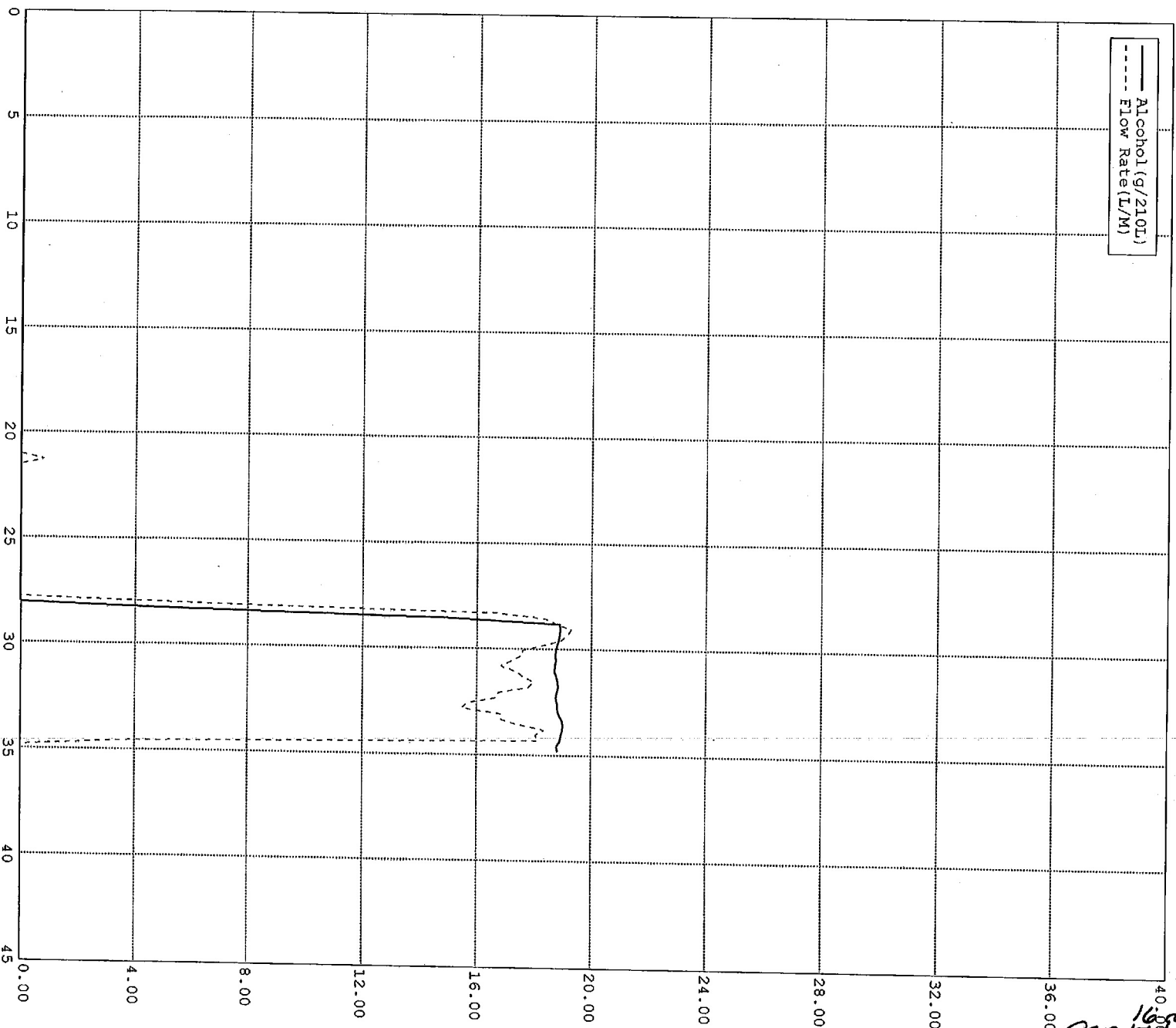
DEPT/AGENCY:
 AAA1

CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:41
BLANK TEST	0.000	07:41
INTERNAL STANDARD	VERIFIED	07:41
EXTERNAL STANDARD	0.079	07:41
BLANK TEST	0.000	07:42
SUBJECT SAMPLE	INTERFERENCE	07:43

COS 3/23/12



SUBJECT TEST

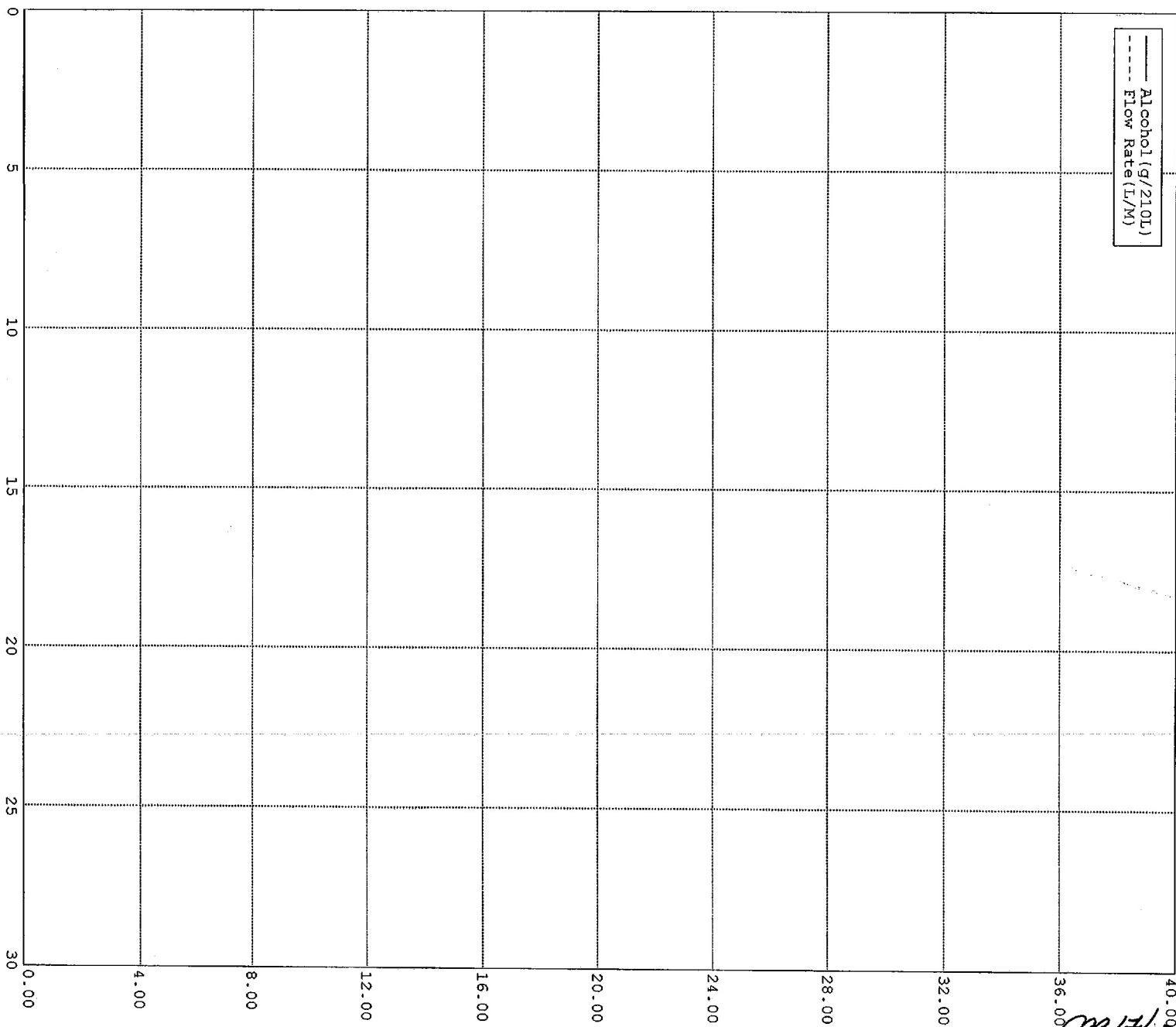
Alaska Department of Public Safety
DATAMASTER dmt: 100678Date: 03/23/2012
Time: 07:47:57SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AA1CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:49
BLANK TEST	0.000	07:49
INTERNAL STANDARD	VERIFIED	07:49
EXTERNAL STANDARD	0.079	07:50
BLANK TEST	0.000	07:51

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100678

Date: 03/23/2012
 Time: 08:11:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

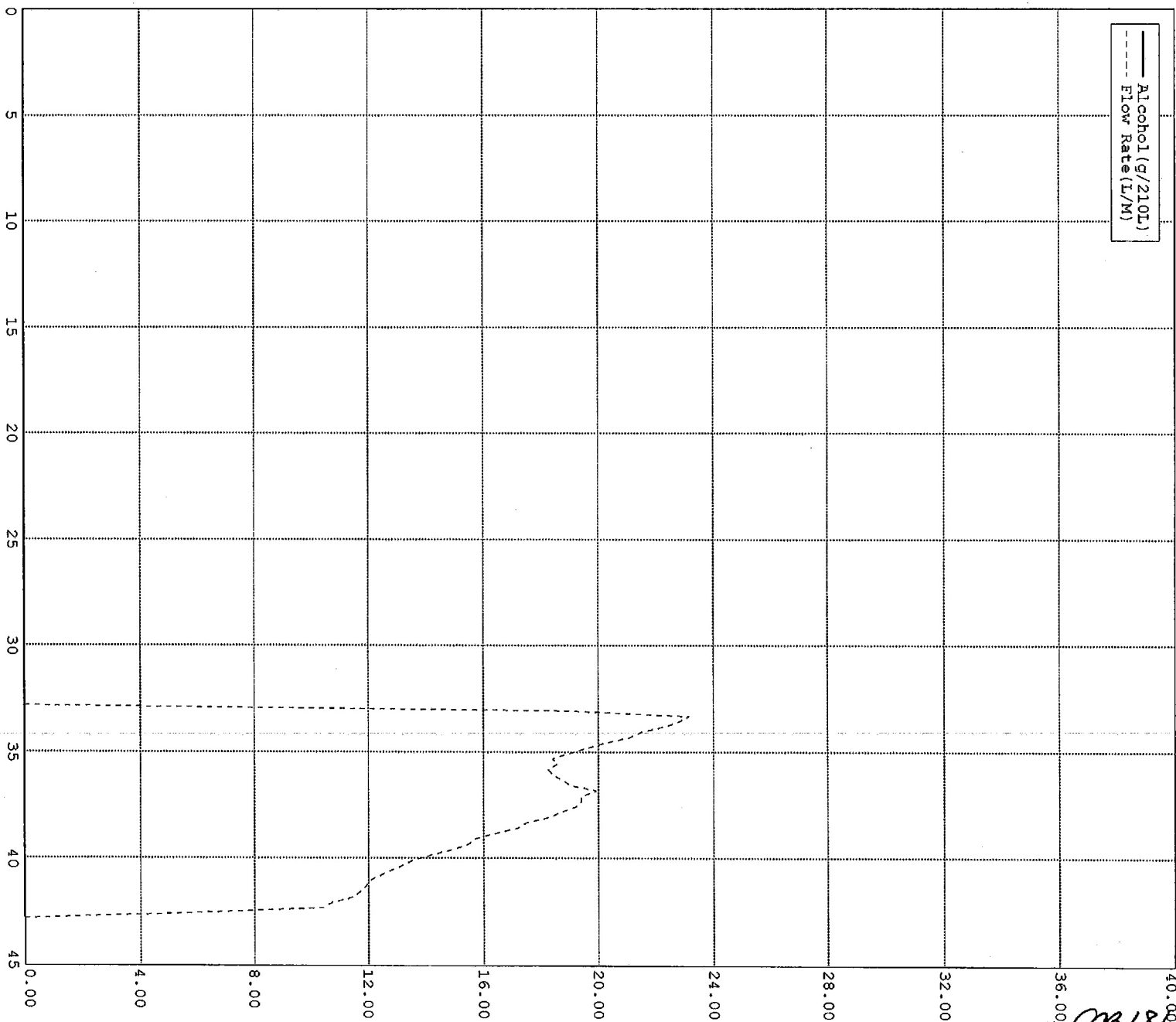
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.94: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:13
INTERNAL STANDARD	0.079	08:13
EXTERNAL STANDARD	0.000	08:14
BLANK TEST	0.000	08:15
SUBJECT SAMPLE	0.000	08:16
BLANK TEST	0.079	08:16
EXTERNAL STANDARD	0.000	08:17

Alcohol (g/210L)
 Flow Rate (L/M)



CAB 3/23/12

CAB 3/23/12

Final page for report

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11/19/2013