

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification Form

Instrument # 100343Analyst Colleen O'Bryant
Date 5/3/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI ☒
 - c. Adjust barometer reading, if needed ☒
 - d. Adjust volume setting, if needed ☒
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1460 ^{ccs} 3/3/11 mL ☒ 1500 mL
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 1/1/12
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 9340 Level 0.080 Exp 12/4/11
 1. Simulator Calibration Date 10/18/10 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 9340 Level 0.080 Exp 12/4/11
 1. Simulator Calibration Date 8/4/10 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 05/03/2011
Time: 08:56:28

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.5°C	PASSED

PUMP INFO

Flow Rate = 5.581 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: 100343

Date: 05/03/2011

Time: 9:07 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 46.1°C

Current Barometer 29.7 in

Volume (ltr) 1.57

Settings

Lamp: 1.88 V

Bias: 80 V

Cooler: 1.69 V

Chopper: 530 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.359 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100343

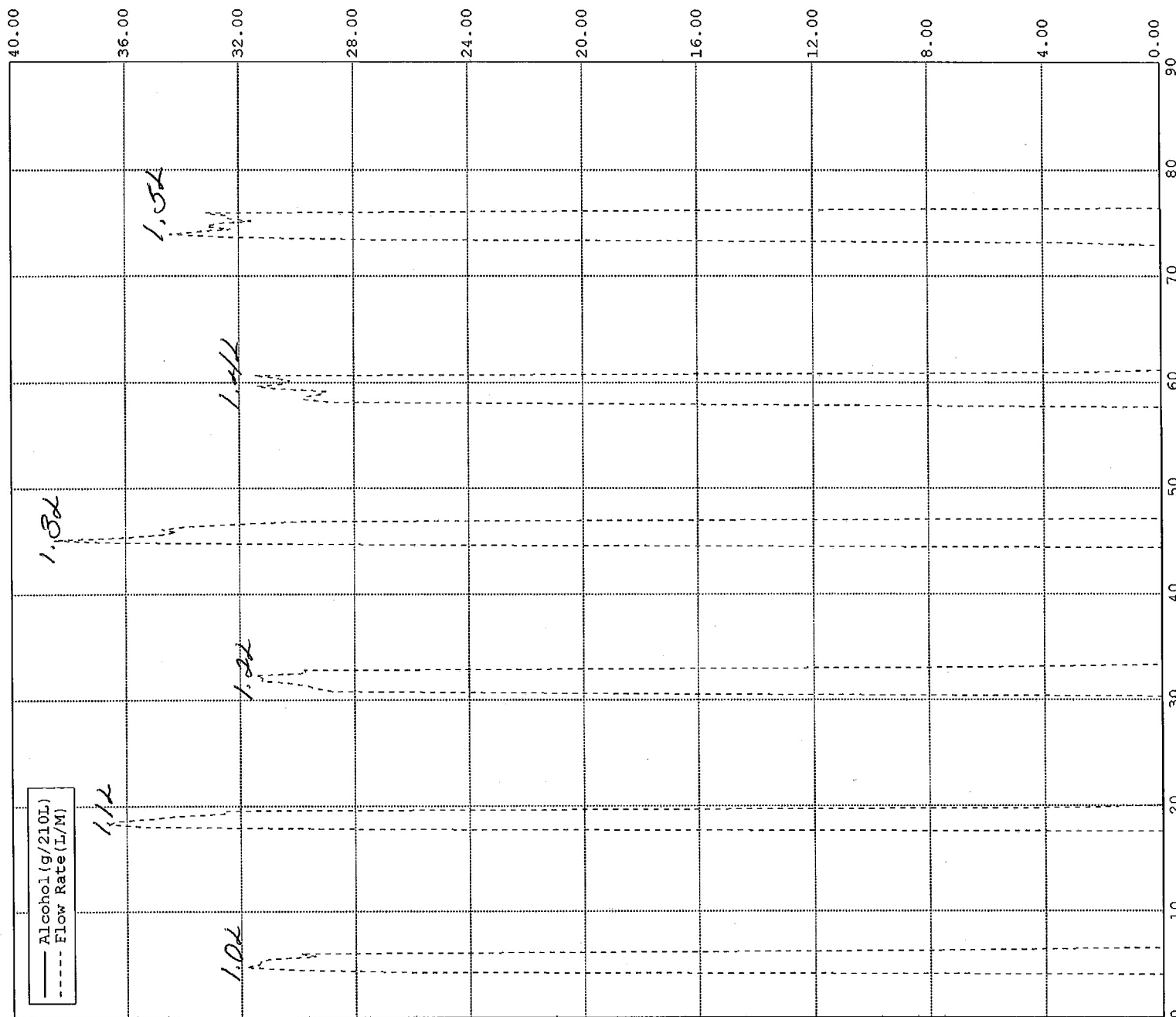
Date: 05/02/2011
Time: 14:54:07

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/~~2012~~ *5/2/11* ~~COO~~

2012

Ca = 0.1000
CAL = 0.984621 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0049 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0853 0.0500 <= Xq < 0.2000
a21 = 1.141925 1.050 <= a21 < 1.300
a31 = 0.497735 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 05/03/2011
Time: 13:29:42

SUBJECT NAME:

TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

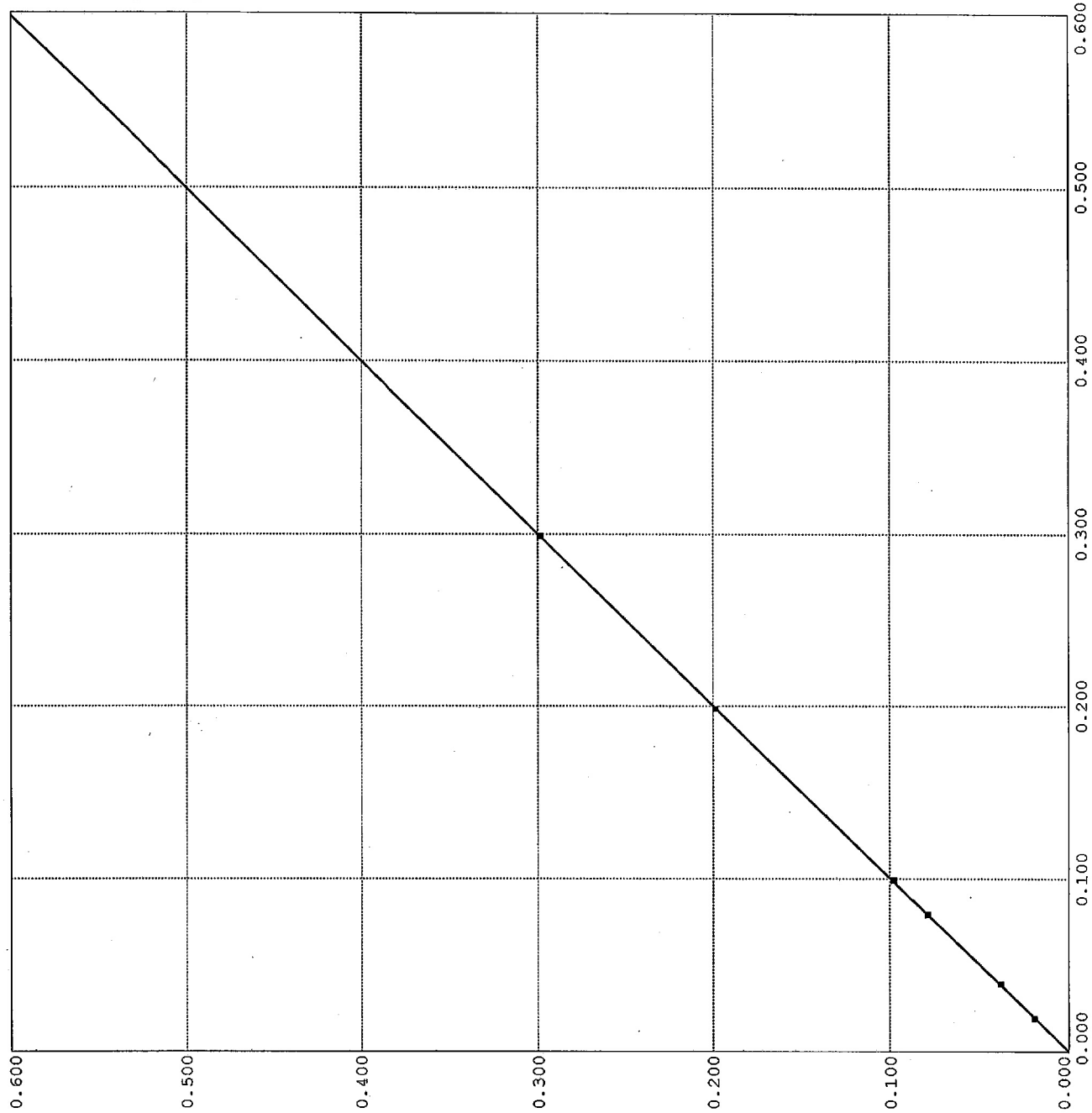
NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

TEST	RESULT	TIME
BLANK TEST	PASSED	13:30
INTERNAL STANDARD	0.000	13:31
EXTERNAL STANDARD	VERIFIED	13:31
BLANK TEST	0.079	13:31
SUBJECT SAMPLE	0.000	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.000	13:34
BLANK TEST	0.080	13:34
BLANK TEST	0.000	13:35

CAB

CAB/18



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 05/03/2011
 Time: 10:17:32

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0390	0.0000
0.079	0.0796	0.0009
0.099	0.0988	0.0008
0.198	0.1994	0.0005
0.298	0.2992	0.0004

SLOPE = 1.003415
 R² = 0.999987

CS

CS 6/8

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100343

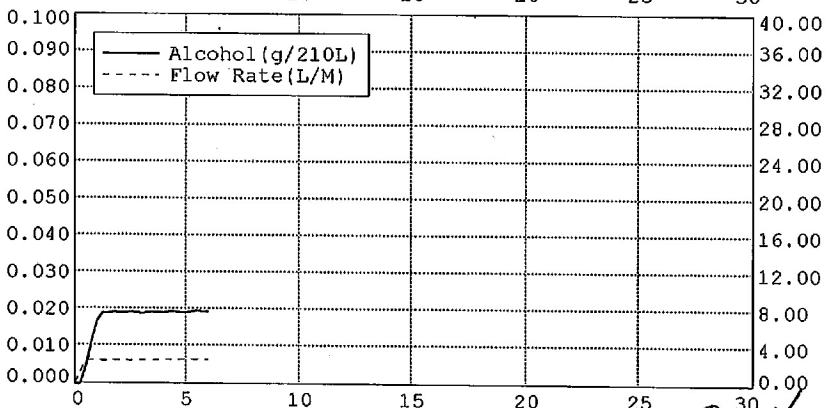
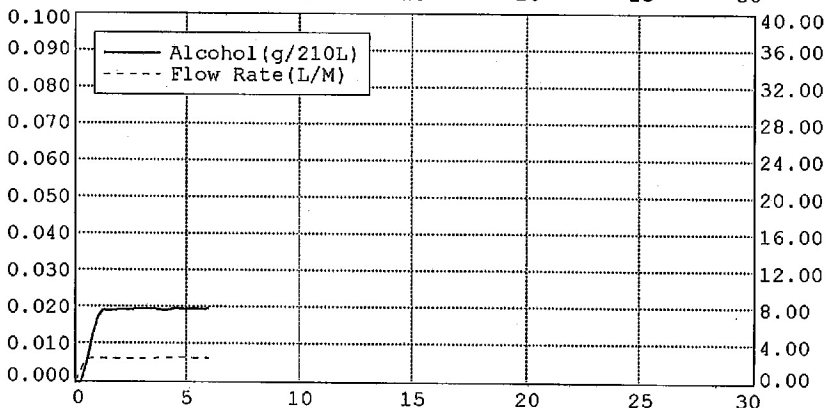
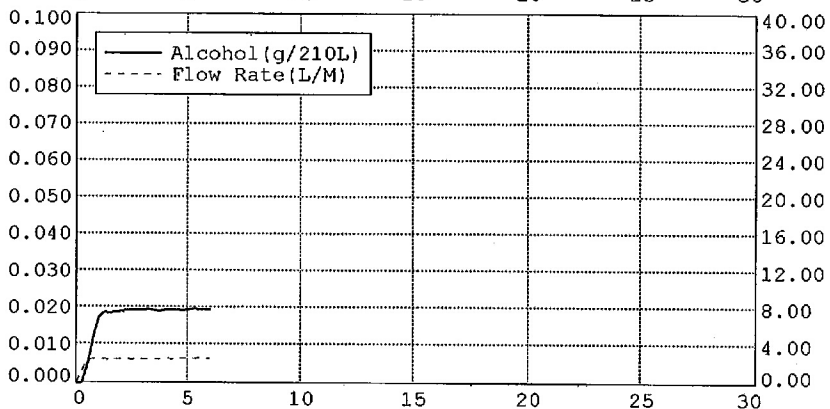
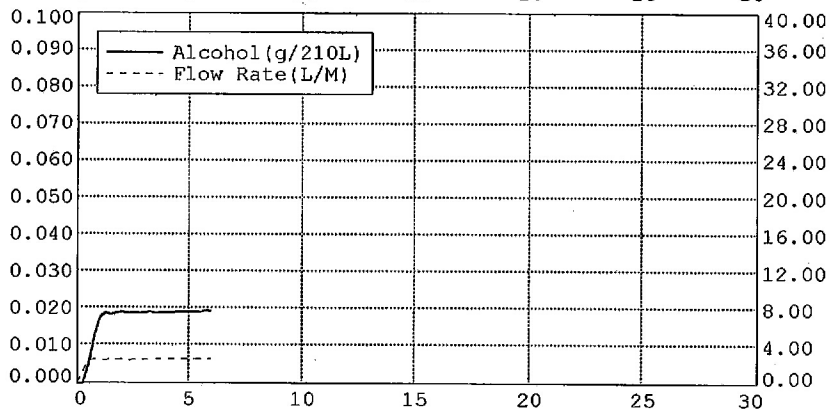
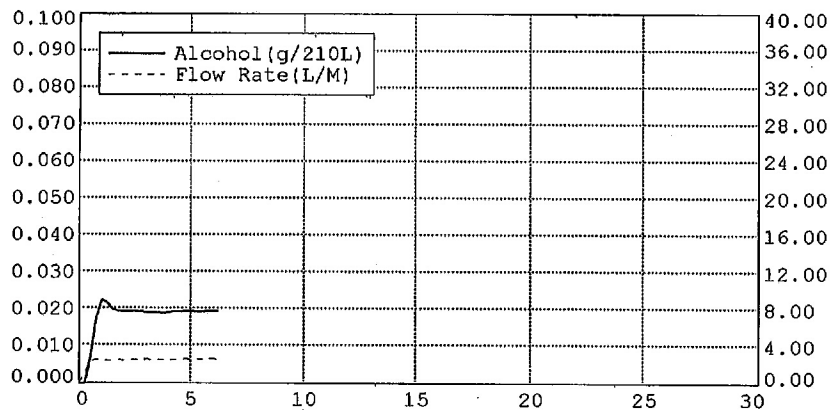
Date: 05/03/2011
Time: 10:17:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.75: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.020	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.020	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.020	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.020	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.020	10:26
BLANK TEST	0.000	10:27

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100343

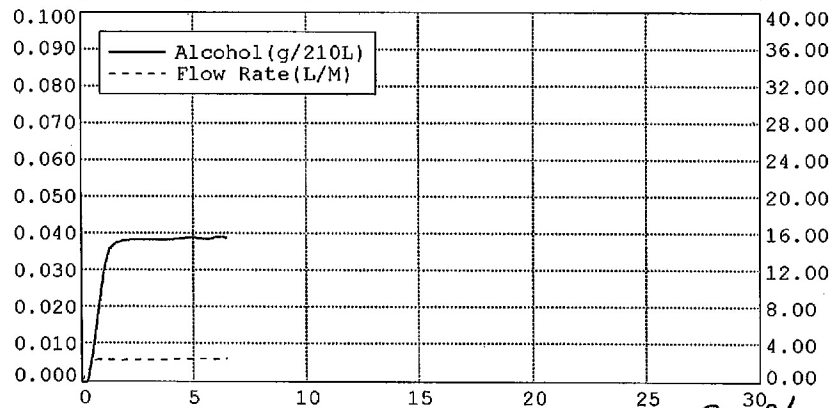
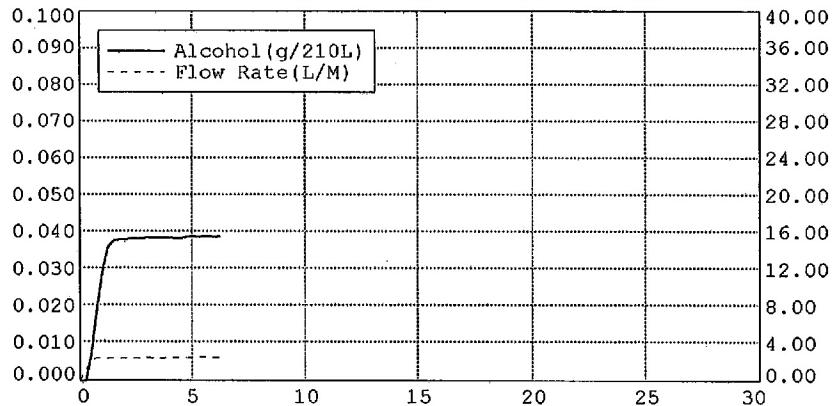
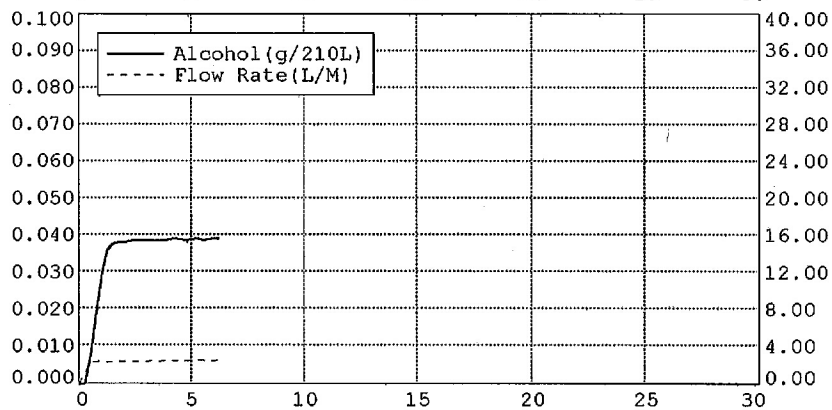
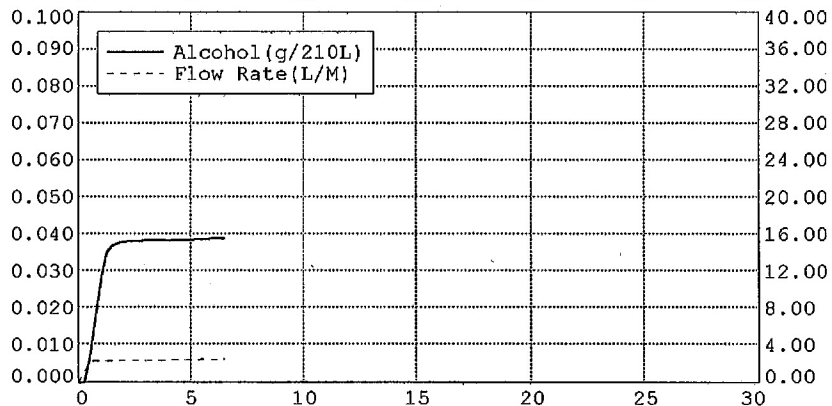
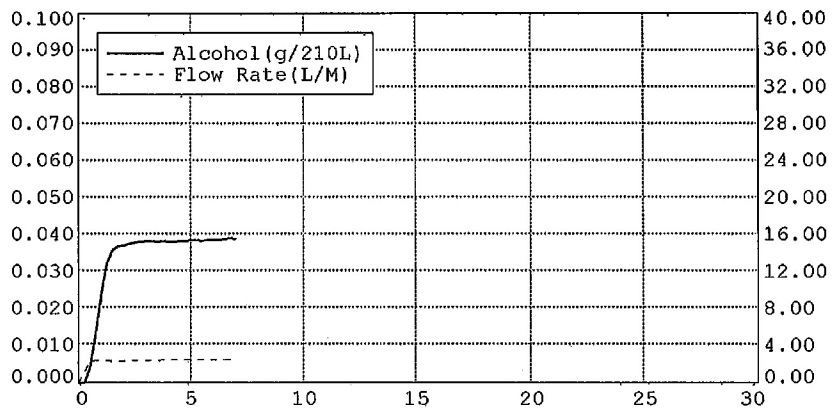
Date: 05/03/2011
Time: 10:32:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.75: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
EXTERNAL STANDARD	0.039	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.039	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.039	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.039	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.039	10:38
BLANK TEST	0.000	10:38

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100343

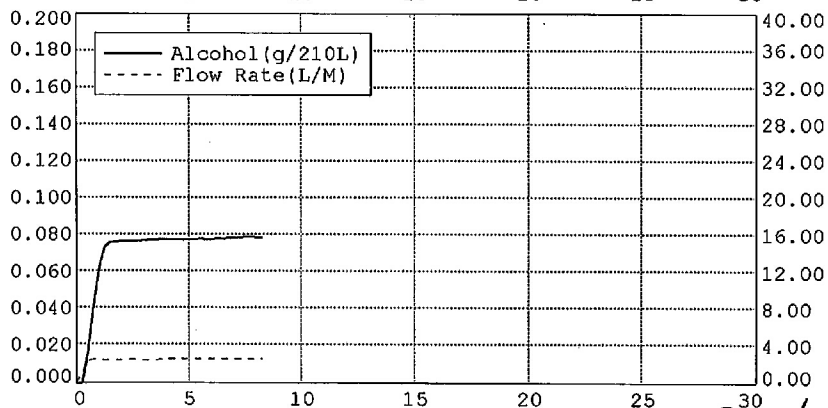
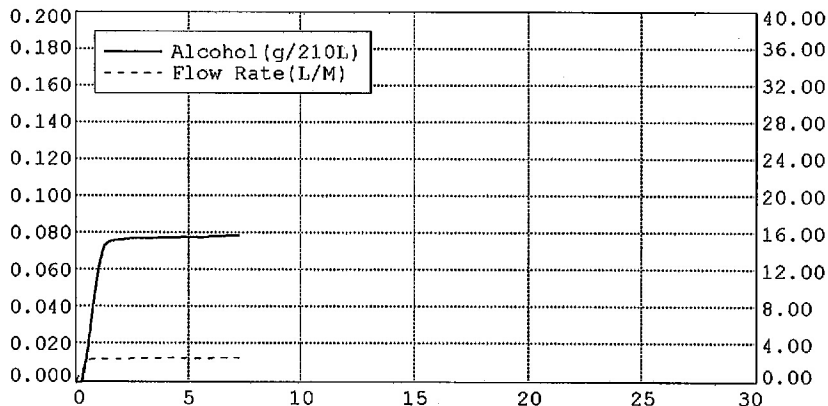
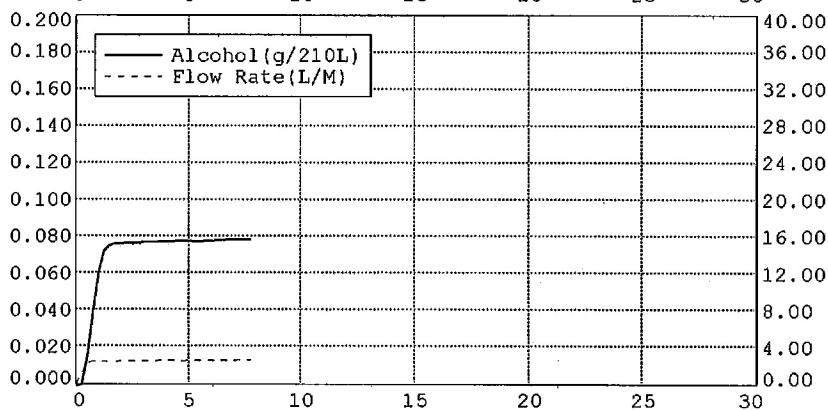
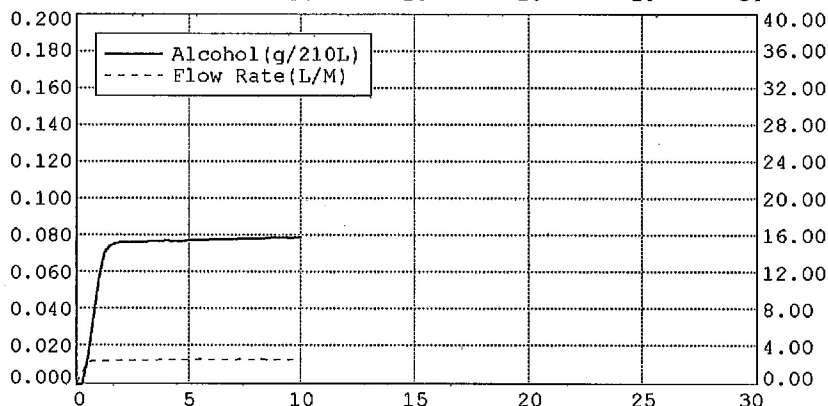
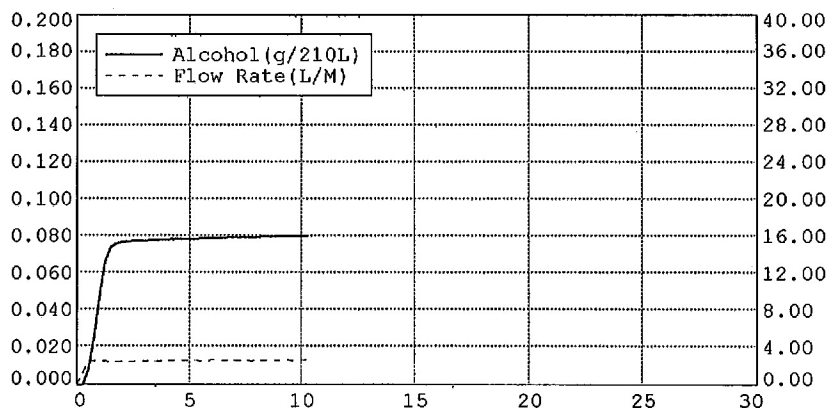
Date: 05/03/2011
Time: 10:39:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:41
EXTERNAL STANDARD	0.081	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.080	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.079	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.079	10:45
BLANK TEST	0.000	10:46

Average = 0.0796
Std Dev = 0.0009



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100343

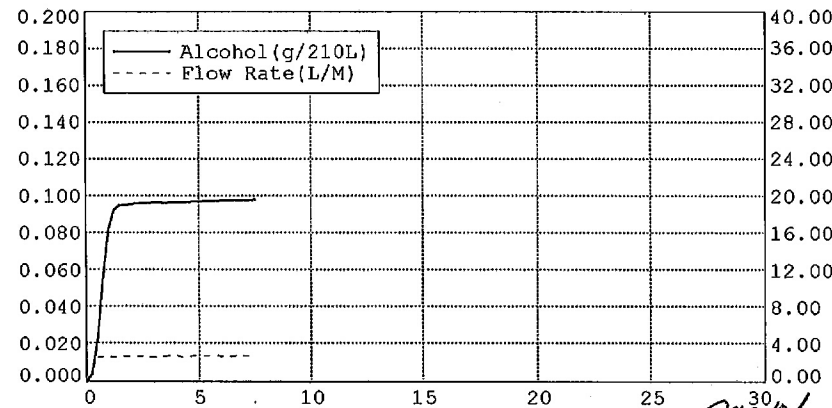
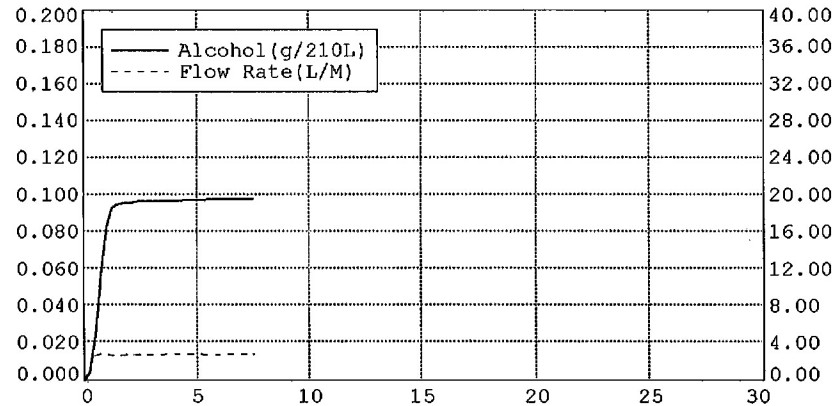
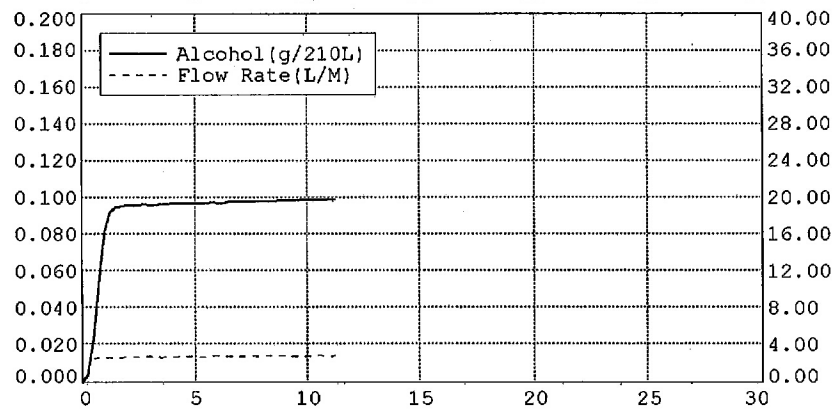
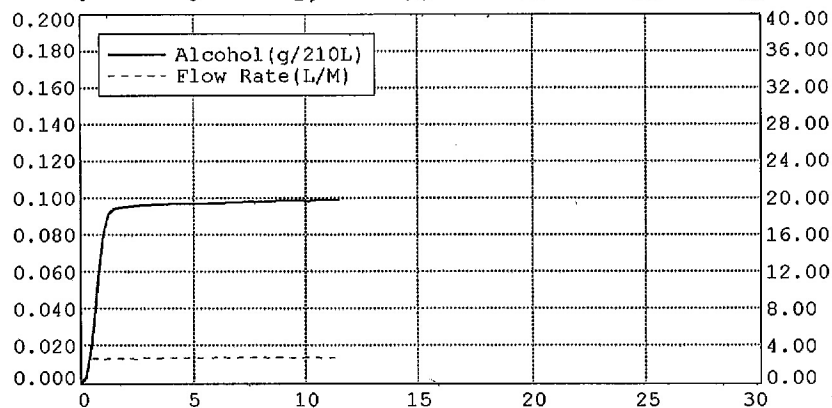
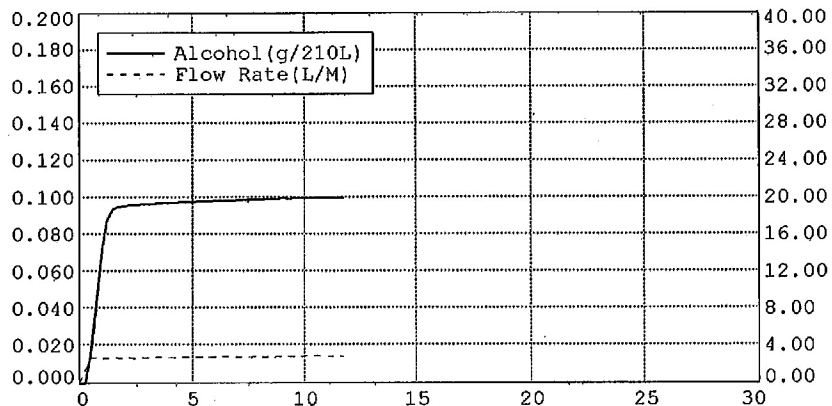
Date: 05/03/2011
Time: 10:49:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.76: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.100	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.099	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.099	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.098	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.098	10:56
BLANK TEST	0.000	10:56

Average = 0.0988
Std Dev = 0.0008



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100343

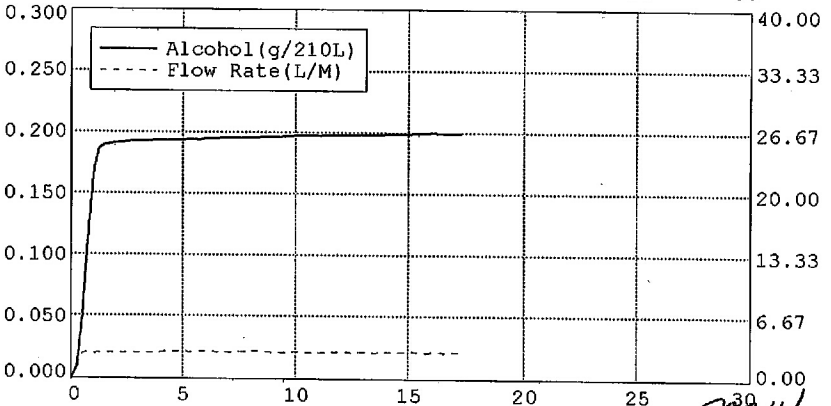
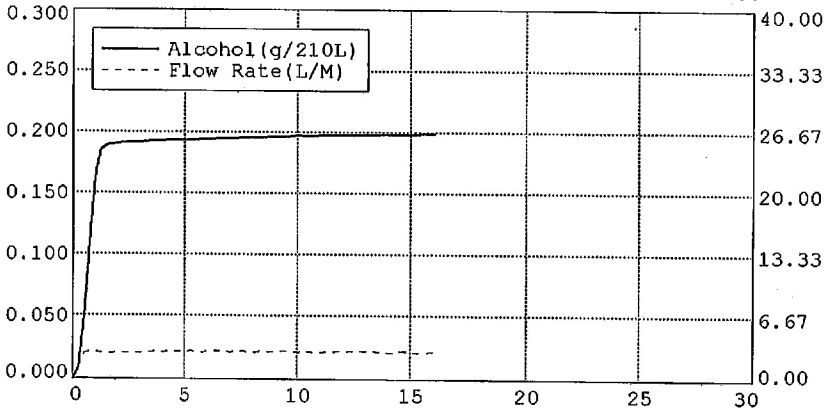
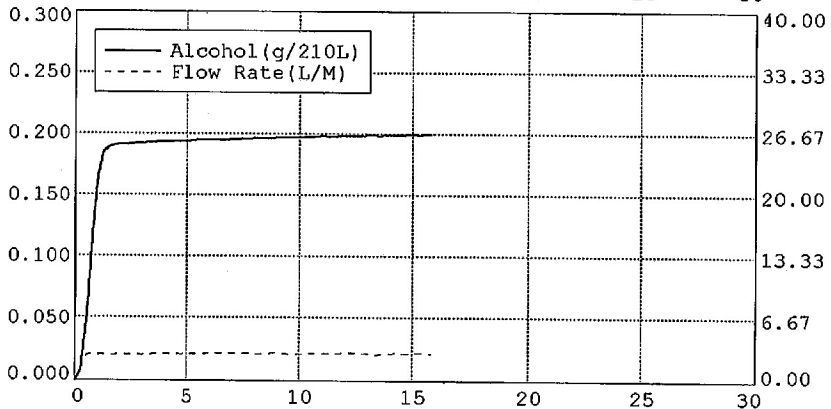
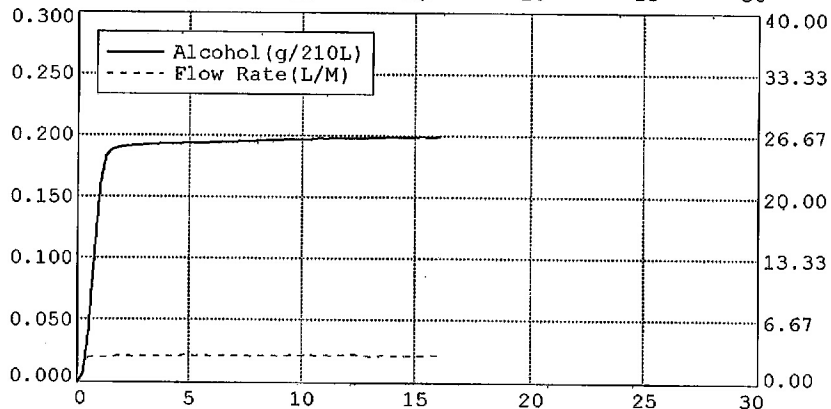
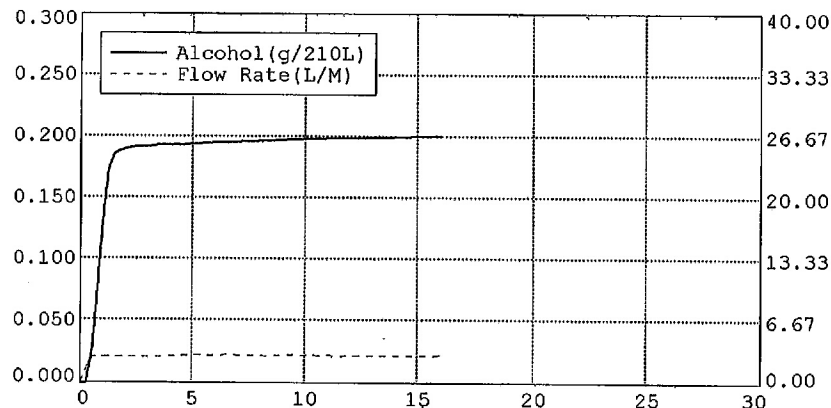
Date: 05/03/2011
Time: 10:58:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.76: 0.198
LOT #: 07611200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.200	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.199	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.199	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.199	11:04
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.200	11:05
BLANK TEST	0.000	11:06

Average = 0.1994
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100343

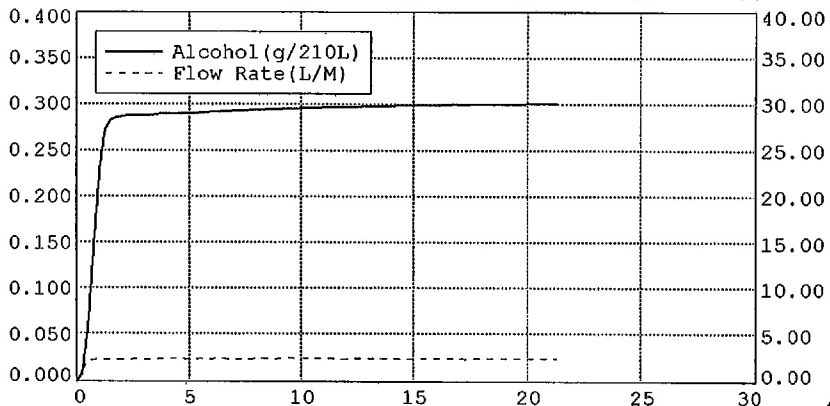
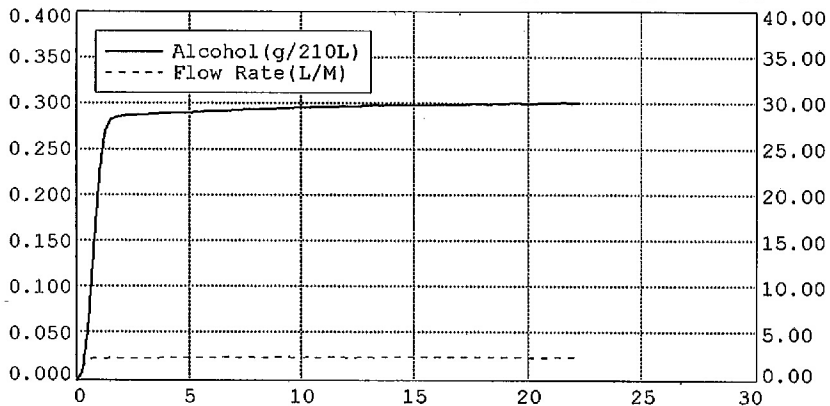
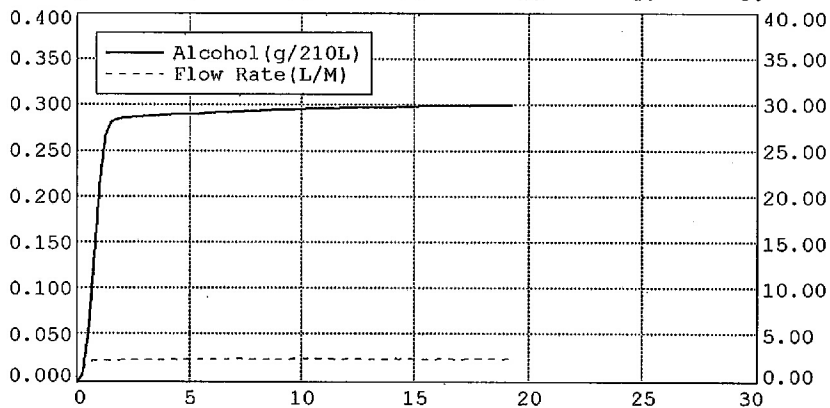
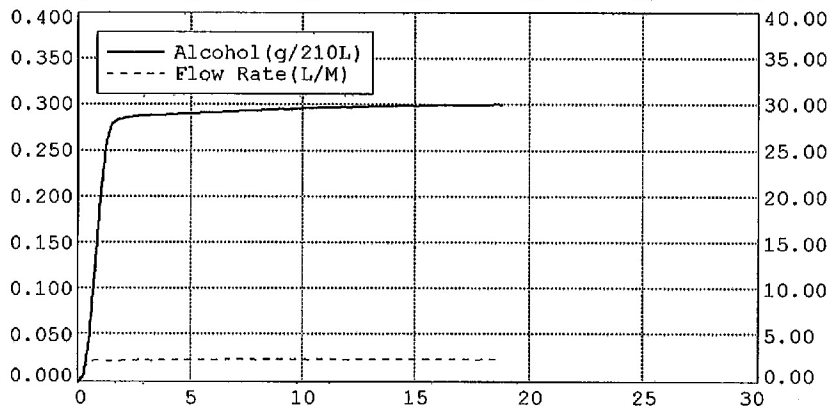
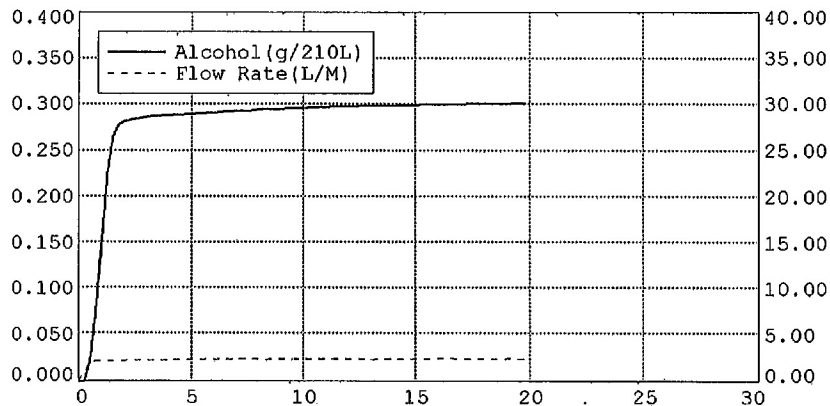
Date: 05/03/2011
Time: 11:11:59

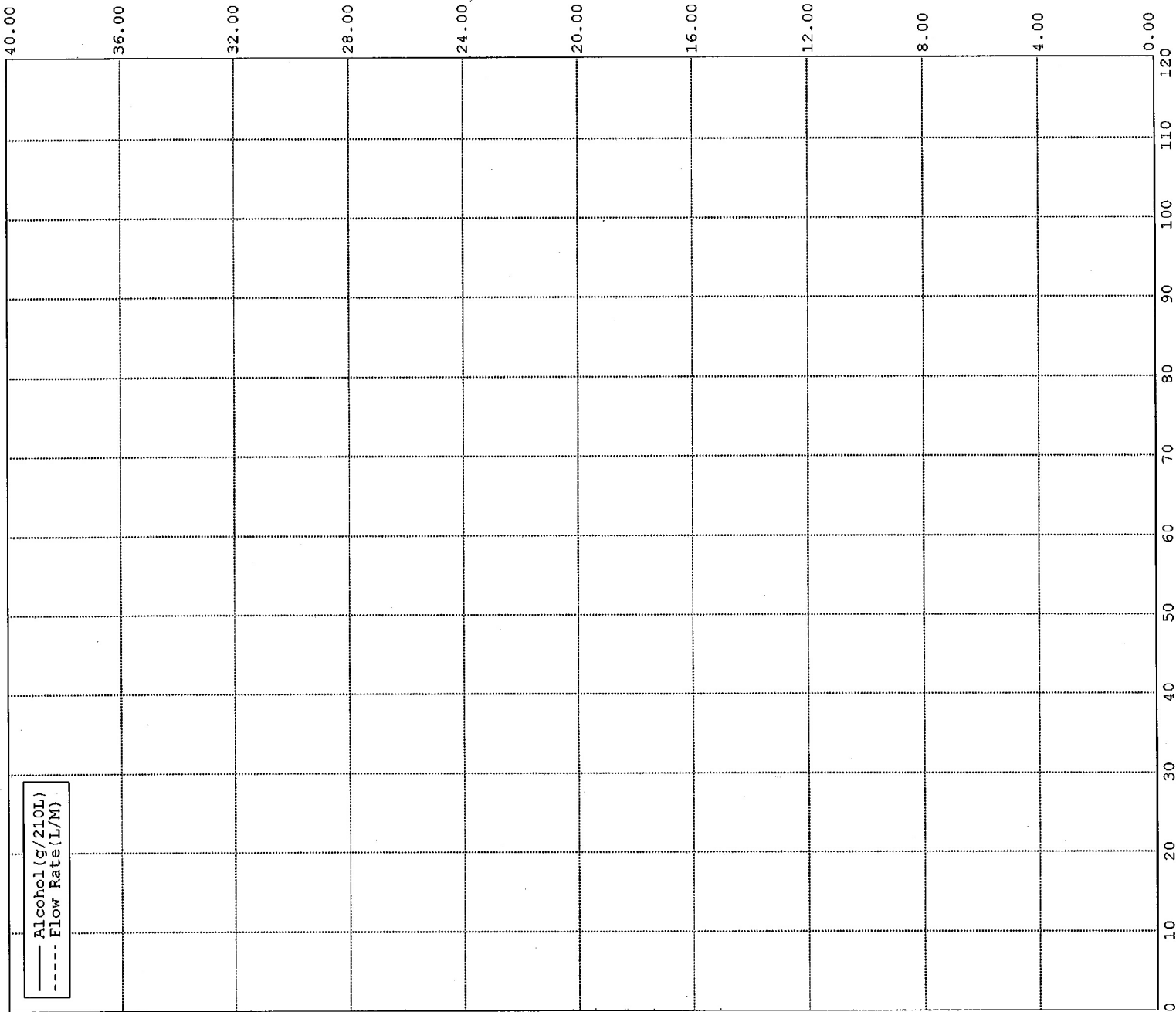
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.76: 0.298
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.299	11:13
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.299	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.299	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.299	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.300	11:19
BLANK TEST	0.000	11:20

Average = 0.2992
Std Dev = 0.0004





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 05/03/2011
Time: 13:19:59

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

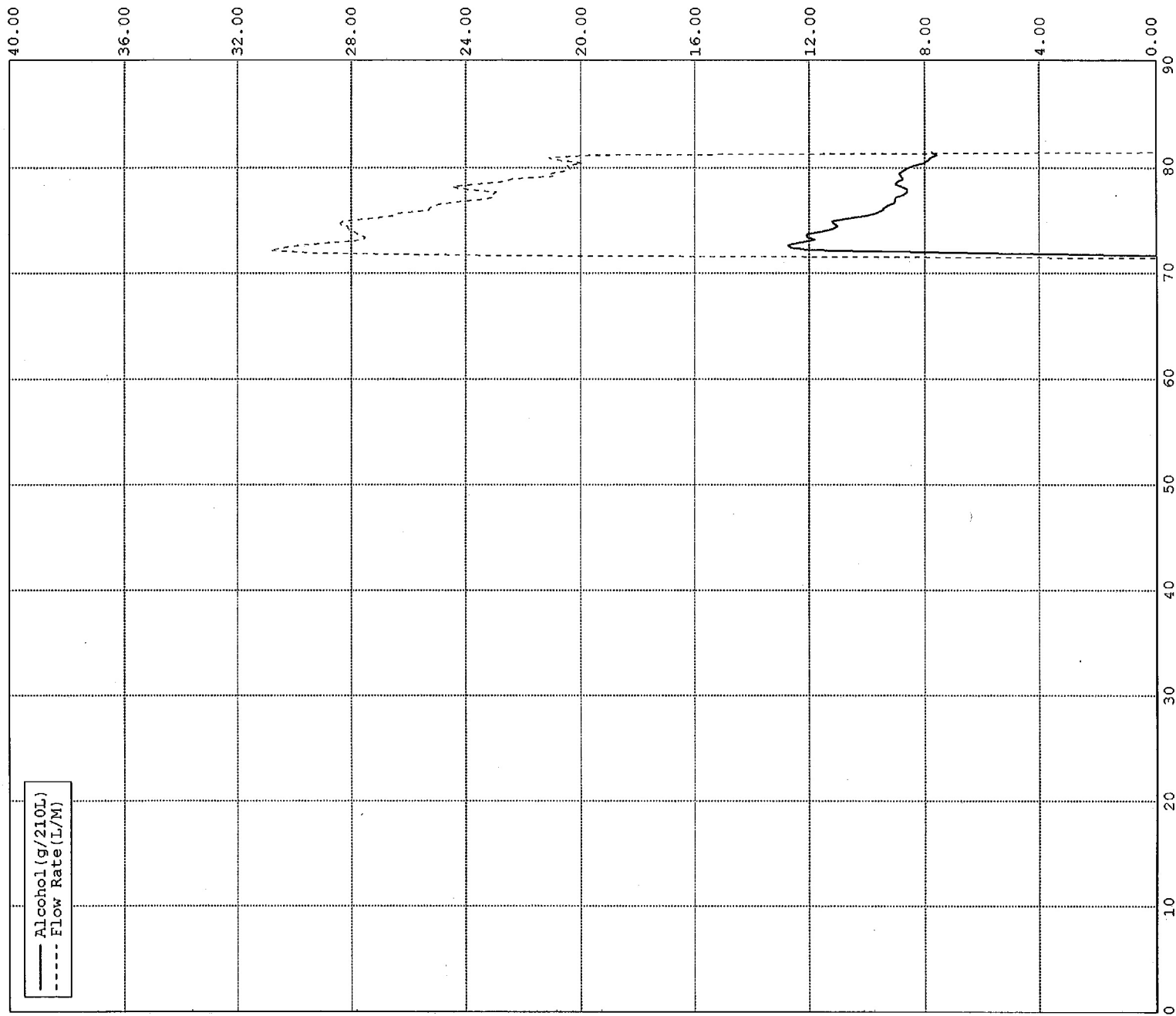
DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK PASSED 13:21
BLANK TEST 0.000 13:21
INTERNAL STANDARD VERIFIED 13:21
EXTERNAL STANDARD 0.079 13:21
BLANK TEST 0.000 13:22
SUBJECT SAMPLE INCOMPLETE 13:24

CB 13/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 05/03/2011
Time: 14:42:24

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

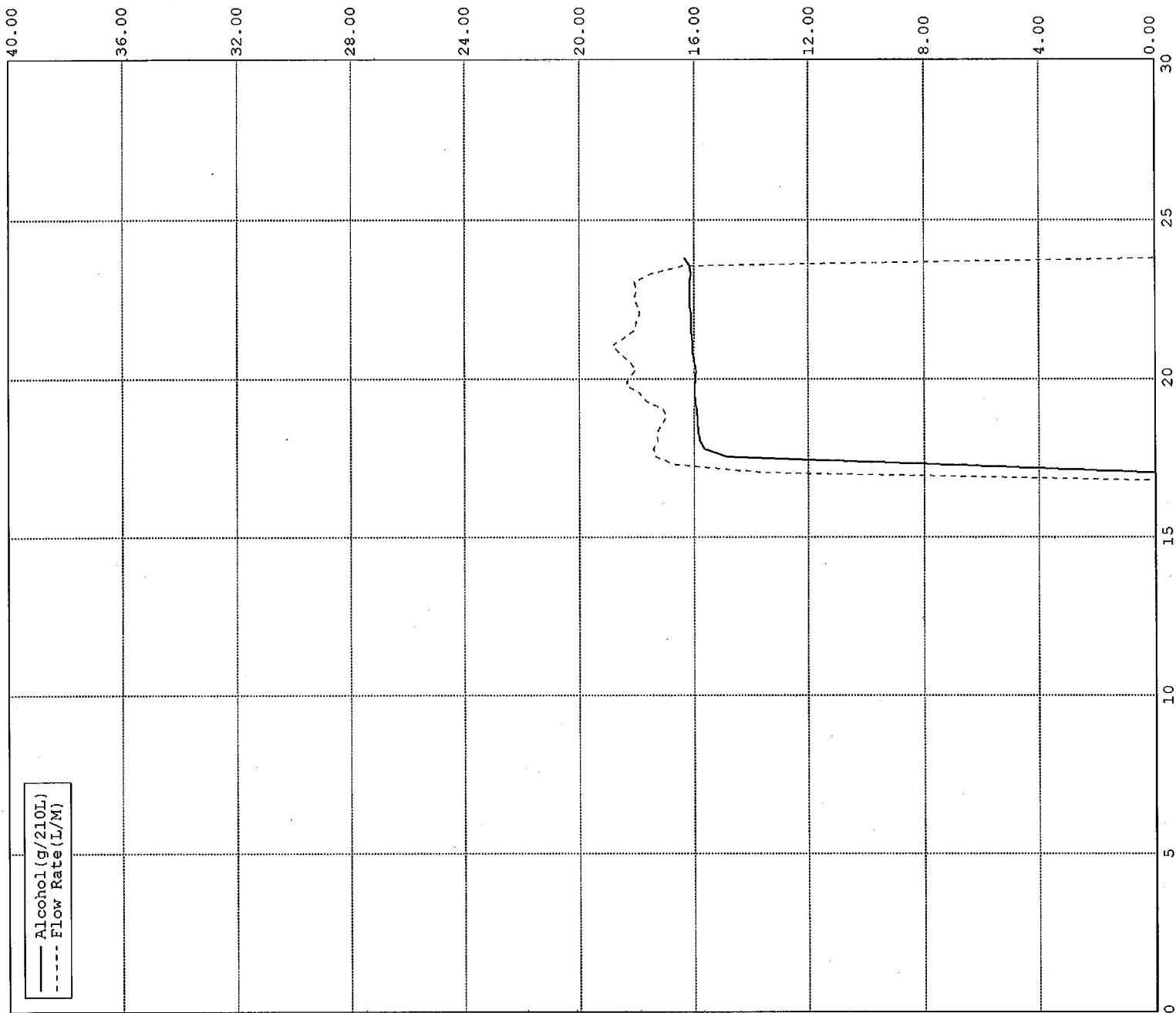
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:43
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.079	14:43
BLANK TEST	0.000	14:44
SUBJECT SAMPLE	Invalid	14:46

CAB

05/14/11



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 05/03/2011
Time: 14:52:26

SUBJECT NAME:
TEST TEST
LICENSE #: INTF-ACT

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

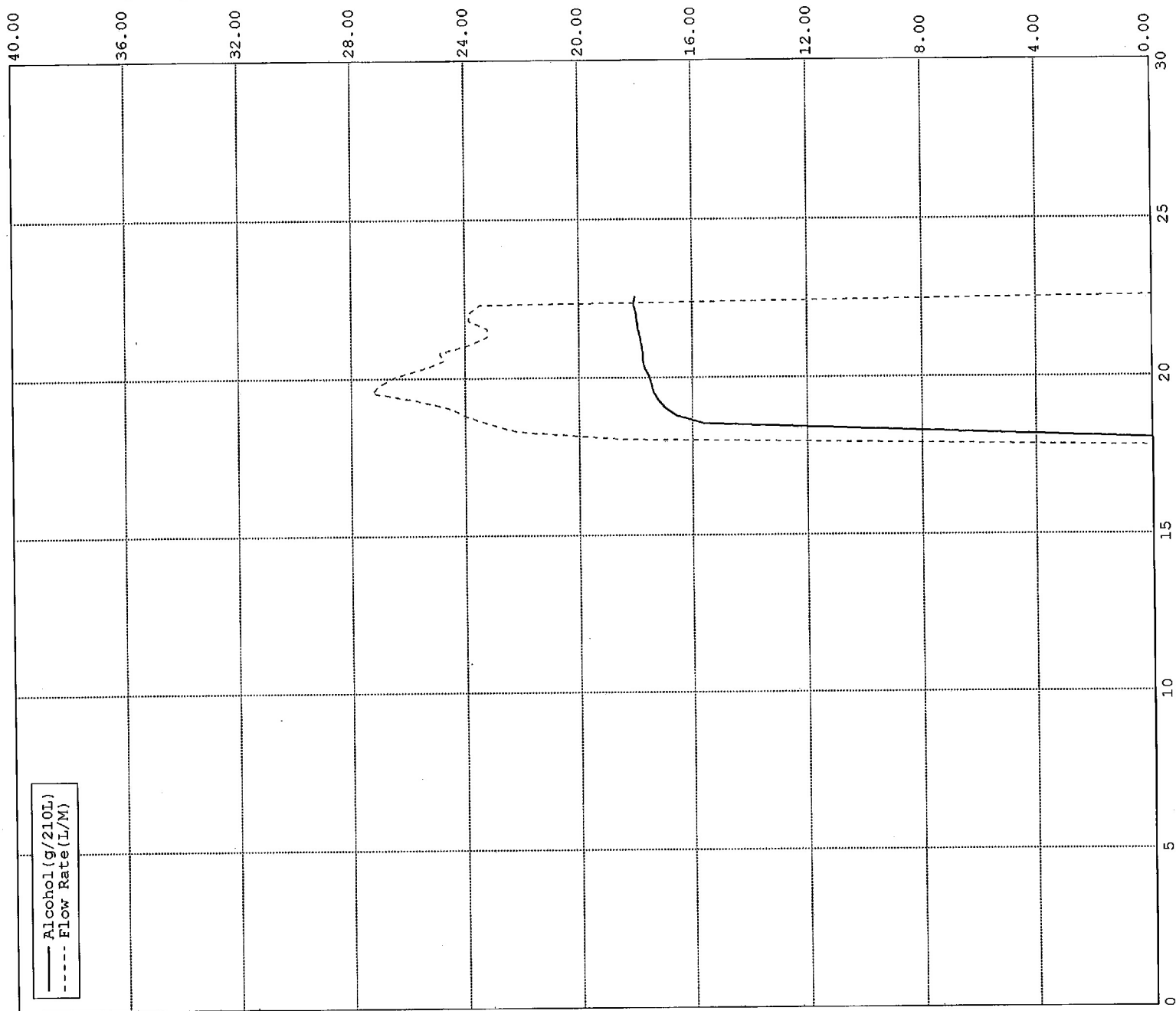
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.080	14:54
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERFERENCE	14:55

CB

CB 5/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 05/03/2011
 Time: 14:58:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTF-ISO

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

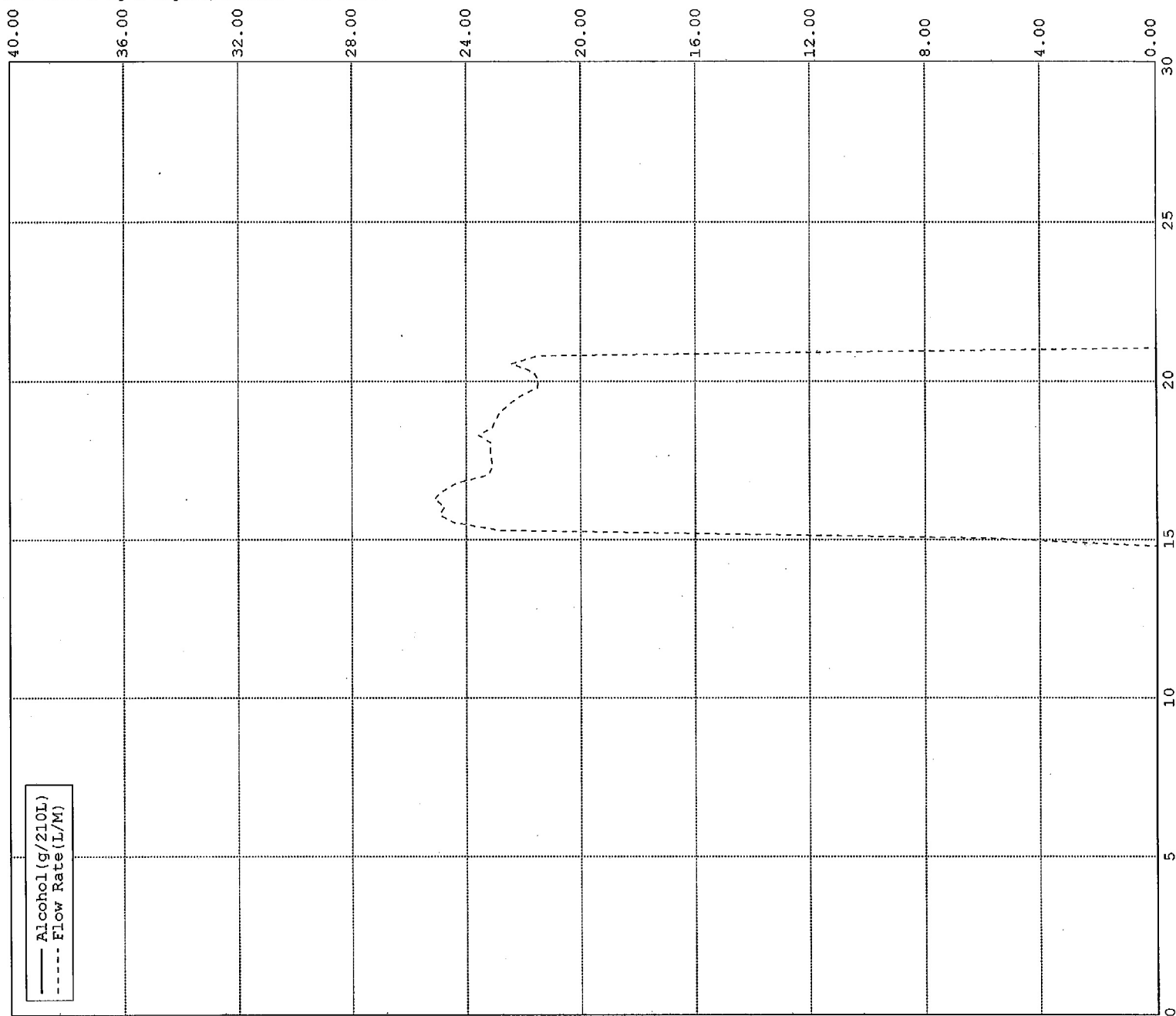
DIAGNOSTIC CHECK	PASSED	14:59
BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
EXTERNAL STANDARD	0.081	15:00
BLANK TEST	0.000	15:01
SUBJECT SAMPLE	INTERFERENCE	15:01

CB

CB 4/18

SUBJECT TEST
----- Alaska Department of Public Safety DATAMASTER dmt: 100343 ----- Date: 05/03/2011 Time: 15:07:15 ----- SUBJECT NAME: TEST TEST LICENSE #: RFI ----- OPERATOR NAME: COLLEEN S O'BRYANT OPERATOR'S #: 6237 ----- DEPT/AGENCY: AAA1 CASE/REPORT: 11-1234 TEST TYPE: TEST ----- EXTERNAL STANDARD INFORMATION NOMINAL: 0.080 TARGET AT 29.77: 0.079 LOT #: 33609080A1 EXPIRATION: 01/01/2012 ----- DIAGNOSTIC CHECK PASSED 15:08 BLANK TEST 0.000 15:08 INTERNAL STANDARD VERIFIED 15:09 ----- RFI Detected

CAB 7/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 05/03/2011
 Time: 15:23:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.77: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	15:24
BLANK TEST	0.000	15:24
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.080	15:25
BLANK TEST	0.000	15:26
SUBJECT SAMPLE	0.000	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.080	15:27
BLANK TEST	0.000	15:28

CB

CB 18/18