	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 # 100403

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 1700 mL
5. Dry Gas Linearity Test (attached)
  - a. Levels Used 

i.	0.020g/210L Mnf <u>ILMO</u>	Lot <u>02811020A1</u>	Exp <u>2/1/13</u>
ii.	0.040g/210L Mnf <u>ILMO</u>	Lot <u>02811040A2</u>	Exp <u>2/1/13</u>
iii.	0.080g/210L Mnf <u>ILMO</u>	Lot <u>02511080A2</u>	Exp <u>2/1/13</u>
iv.	0.100g/210L Mnf <u>ILMO</u>	Lot <u>07611100A3</u>	Exp <u>3/1/13</u>
v.	0.200g/210L Mnf <u>ILMO</u>	Lot <u>07611200A2</u>	Exp <u>3/1/13</u>
vi.	0.300g/210L Mnf <u>ILMO</u>	Lot <u>07411300A1</u>	Exp <u>3/1/13</u>
6. Functional Tests (attached)
  - a. Incomplete
  - b. Invalid
  - c. Interference 
    - i. Acetone - Mnf Both Lot 9340 Level 0.080 Exp 12/2/11
      1. Simulator Calibration Date 10/18/10 SN DR.6267
    - ii. Isopropanol - Mnf Both Lot 9340 Level 0.080 Exp 12/2/11
      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)

Analyst C. O'BryantDate 5/19/11

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100403  
-----

Date: 05/19/2011  
Time: 09:40:11

## VERSIONS

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

## TEMPERATURES

Sample Chamber = 48.7°C            PASSED  
Breath Tube     = 46.9°C           PASSED

## PUMP INFO

Flow Rate = 5.056 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

*COB 5/18*

Technician Screen

-----  
DATAMASTER dmt: 100403  
-----

Date: 05/19/2011  
Time: 9:47 AM

Temperatures (°C)

Sample Cell: 49.0°C  
Breath Tube: 46.1°C

Current Barometer 29.7 in  
Volume (Ltr) 1.51

Settings

Lamp: 1.73 V  
Bias: 79 V  
Cooler: 1.64 V  
Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.321 V

*COB 3/18*

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100403  
-----

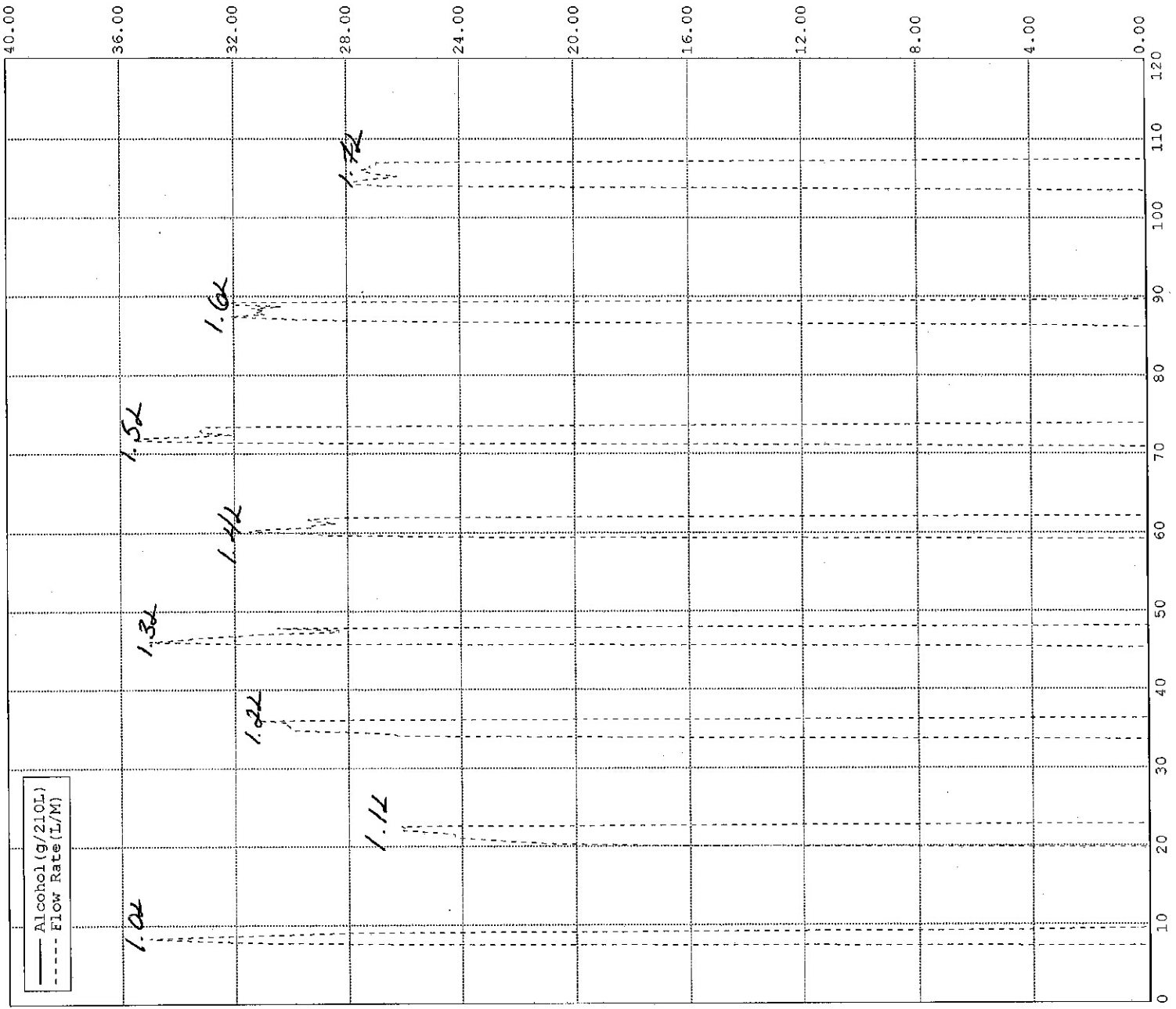
Date: 05/18/2011  
Time: 13:44:51

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2010

Ca = 0.1000  
CAL = 0.986050    0.800 <= CAL < 1.200  
b1 = 0.0000    0.0000 <= b1 < 0.0040  
b2 = 0.0043    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0743    0.0500 <= Xq < 0.2000  
a21 = 1.112347    1.050 <= a21 < 1.300  
a31 = 0.534530    0.300 <= a31 < 0.800

*COB 4/18*



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
 -----  
 Date: 05/19/2011  
 Time: 09:49:29

**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 29.73: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:50
BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.083	09:51
BLANK TEST	0.000	09:52
SUBJECT SAMPLE	0.000	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.082	09:55
BLANK TEST	0.000	09:56

COB 5/18

LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

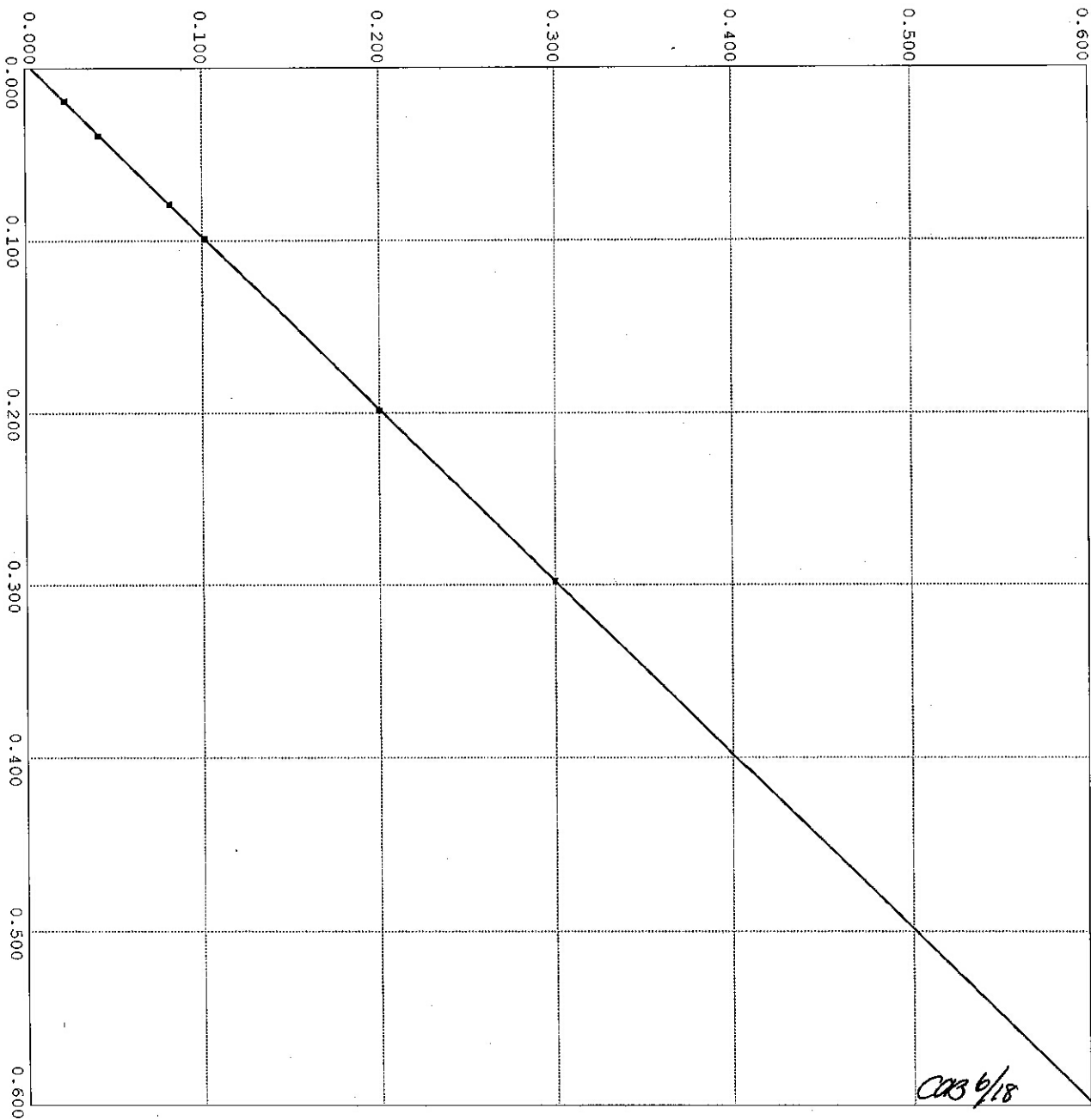
Date: 05/19/2011  
 Time: 10:10:07

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0228	0.0004
0.039	0.0420	0.0000
0.079	0.0828	0.0008
0.099	0.1024	0.0005
0.198	0.2008	0.0019
0.297	0.3004	0.0018

SLOPE = 0.998741  
 R<sup>2</sup> = 0.999993

*CSB*



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

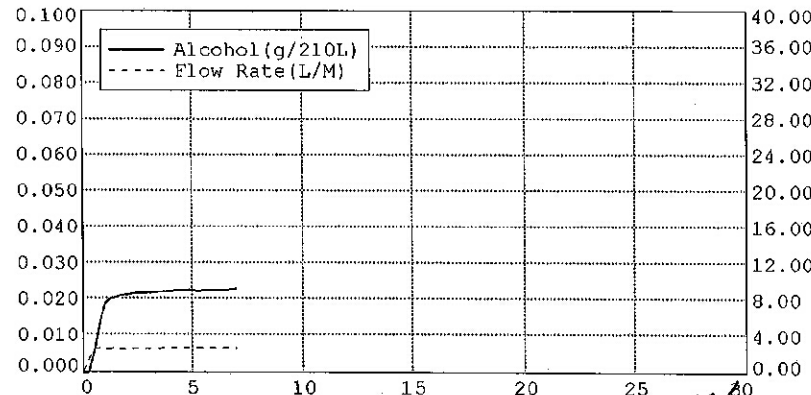
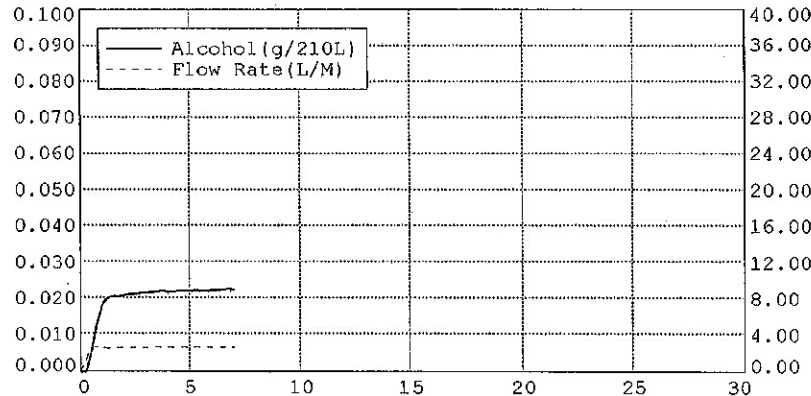
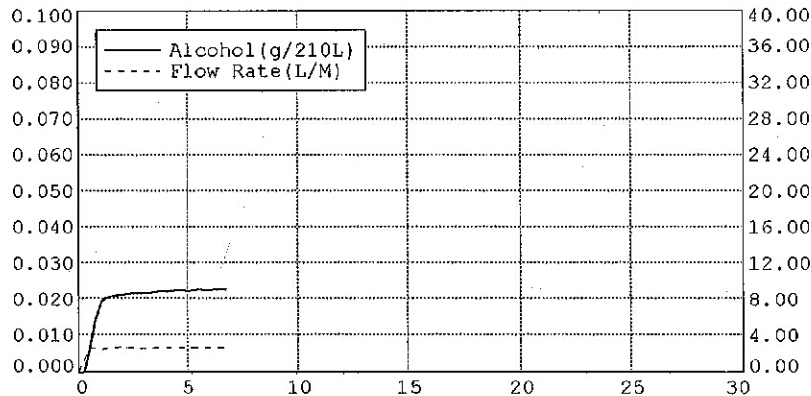
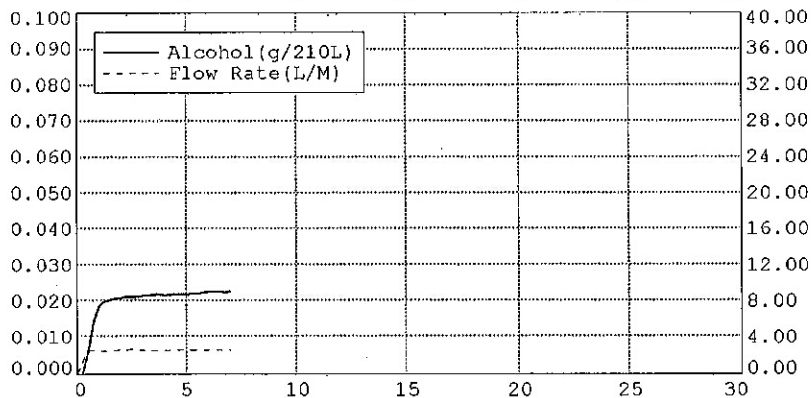
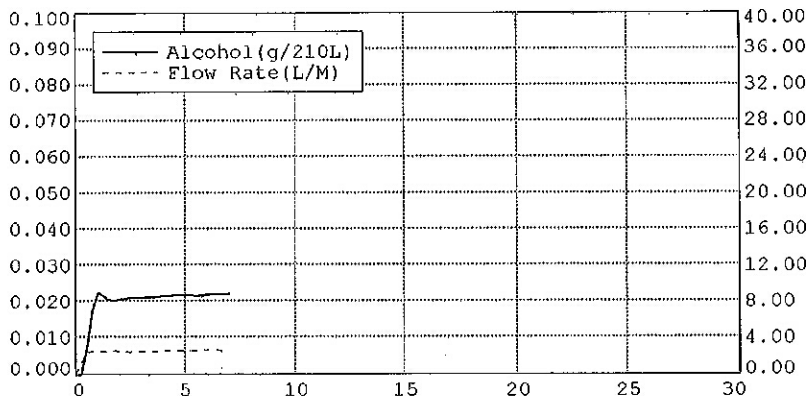
Date: 05/19/2011  
 Time: 10:10:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.73: 0.019  
 LOT #: 02811020A1  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.022	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.023	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.023	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.023	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.023	10:16
BLANK TEST	0.000	10:16

Average = 0.0228  
 Std Dev = 0.0004



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## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100403

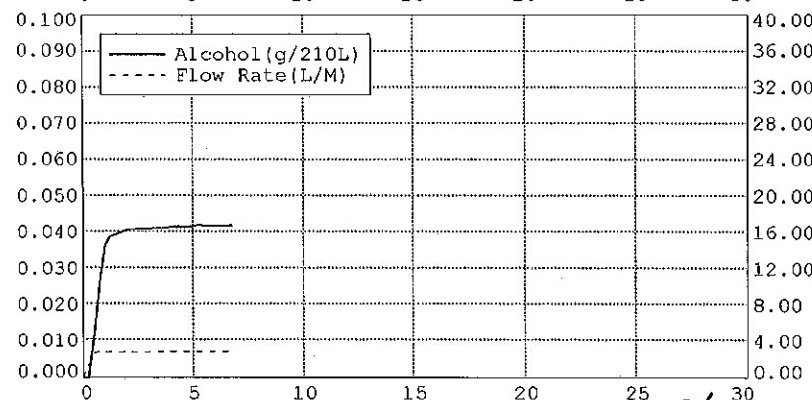
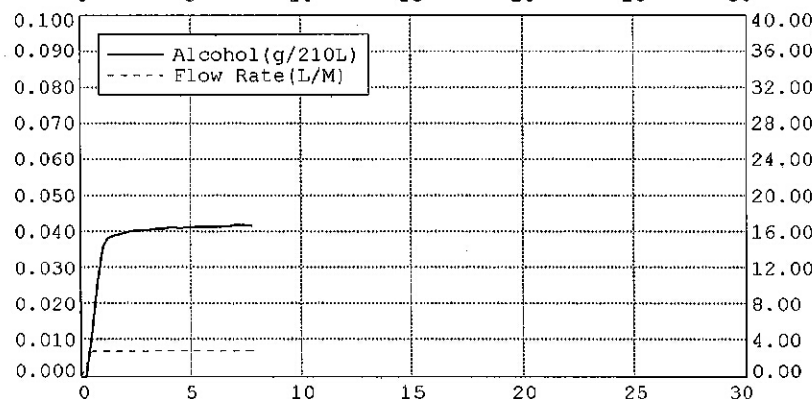
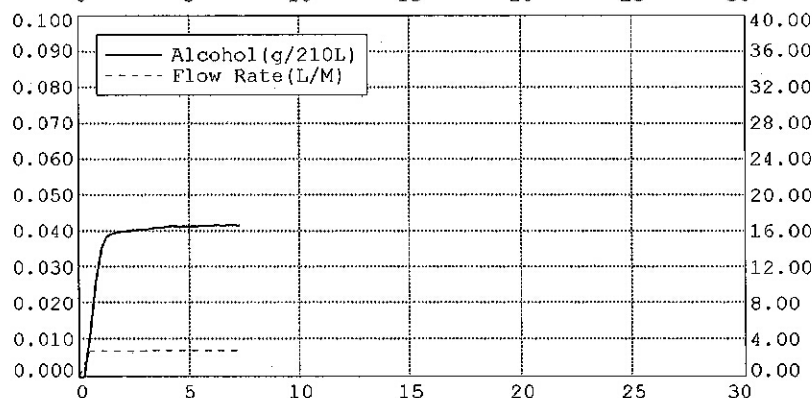
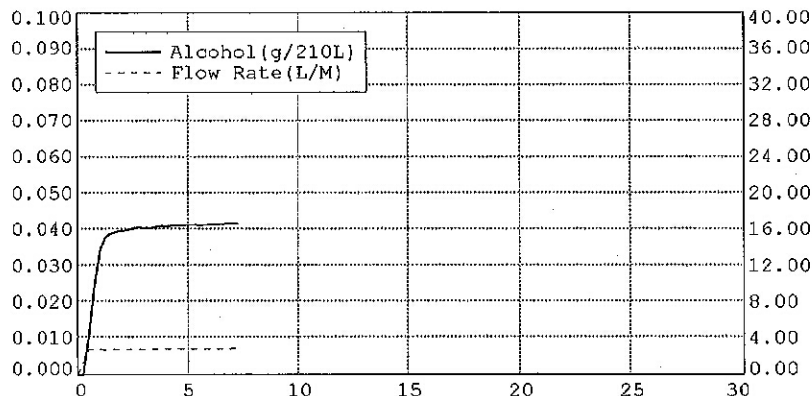
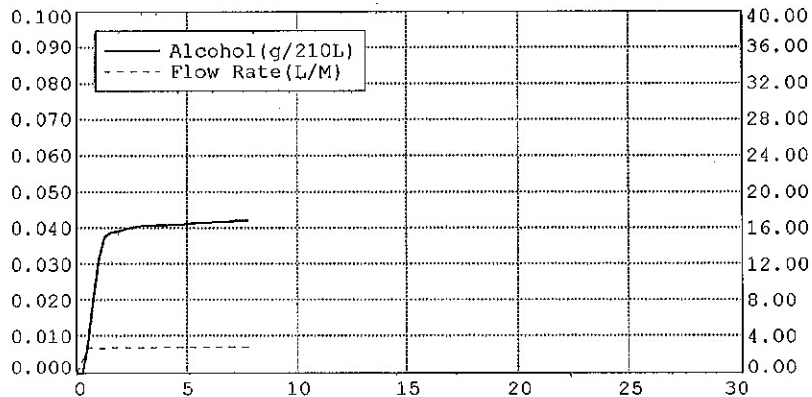
Date: 05/19/2011  
Time: 10:19:45

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.72: 0.039  
LOT #: 02811040A2  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.042	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.042	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.042	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.042	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.042	10:25
BLANK TEST	0.000	10:26

Average = 0.0420  
Std Dev = 0.0000



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## LINEARITY CHECK: Control Test 3

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
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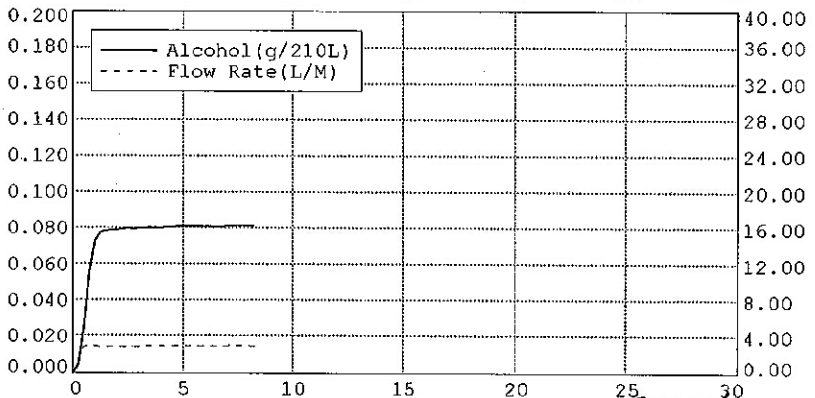
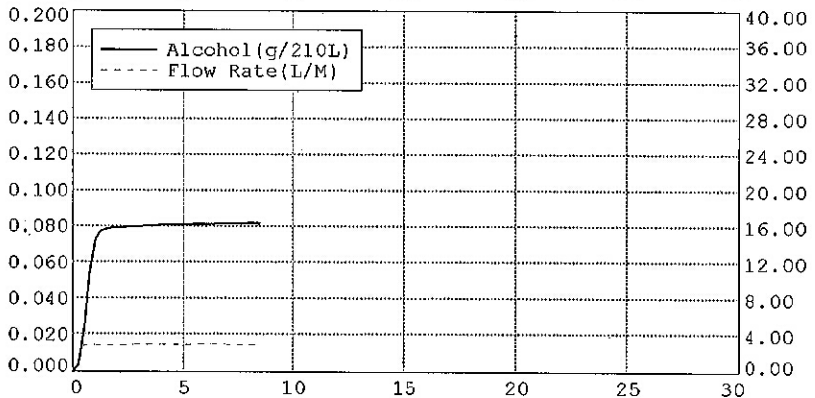
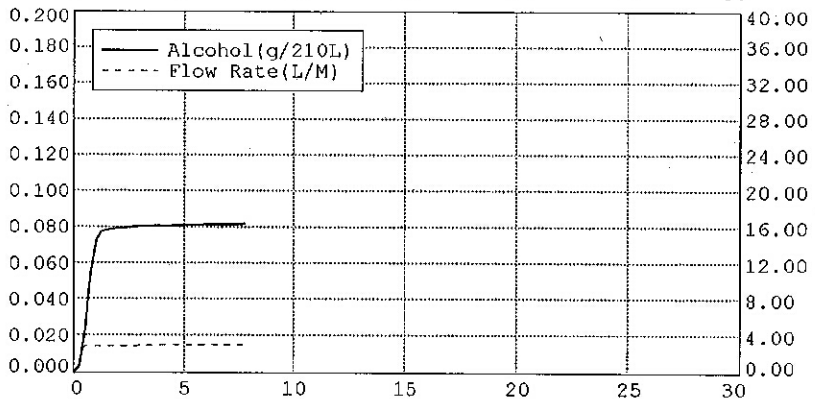
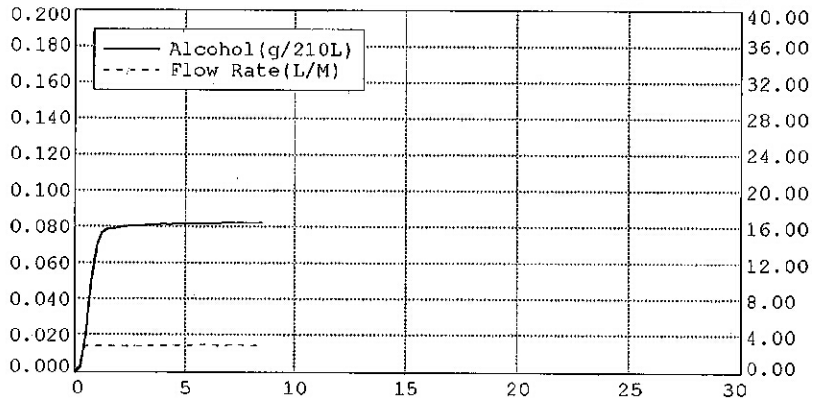
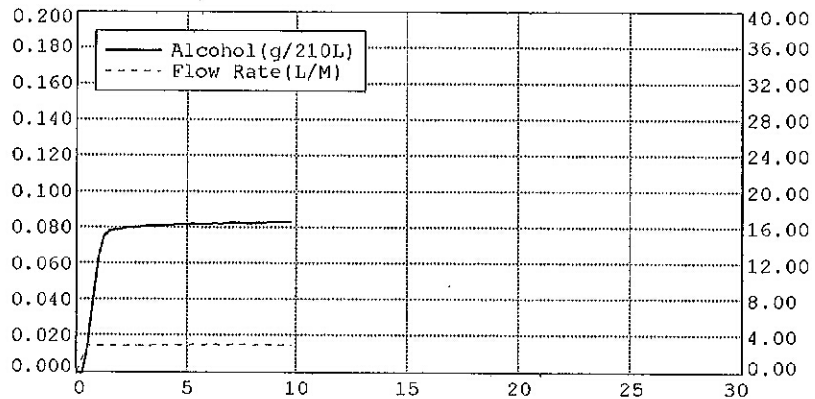
Date: 05/19/2011  
 Time: 10:27:30

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.73: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:29
EXTERNAL STANDARD	0.084	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.083	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.083	10:32
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.082	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.082	10:34
BLANK TEST	0.000	10:35

Average = 0.0828  
 Std Dev = 0.0008



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LINEARITY CHECK: Control Test 4

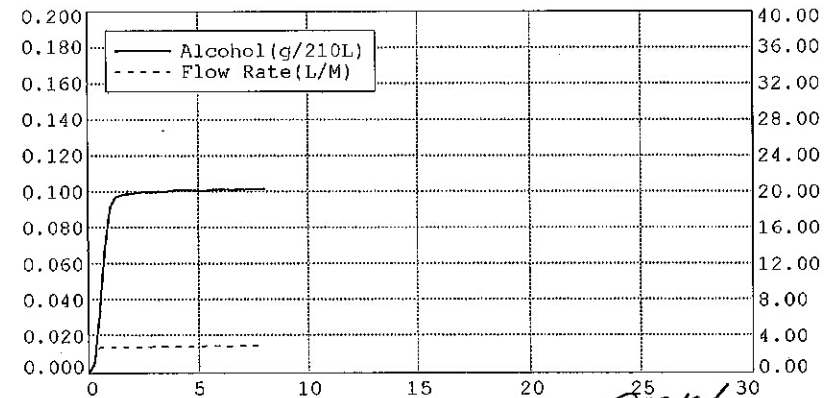
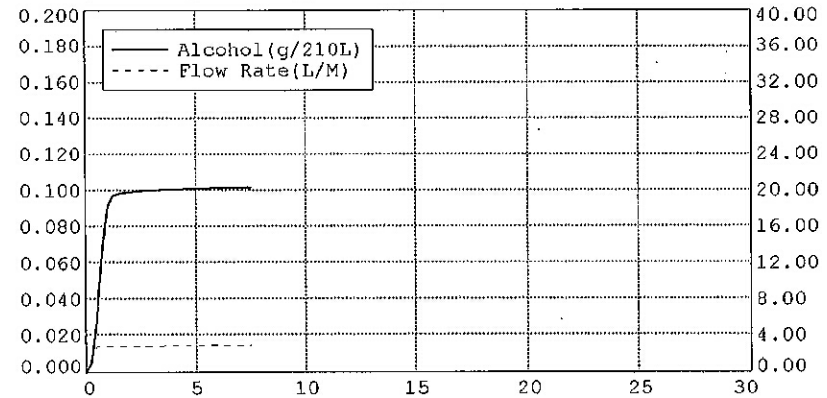
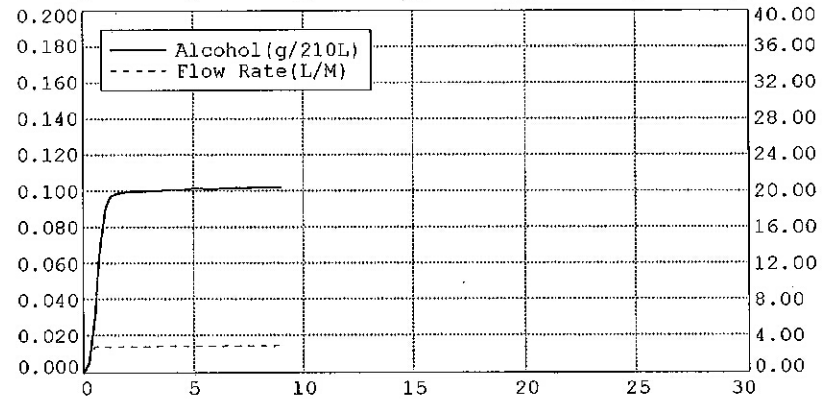
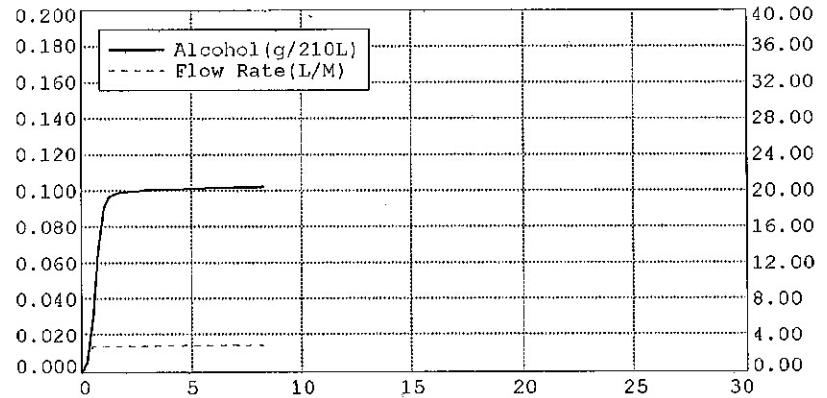
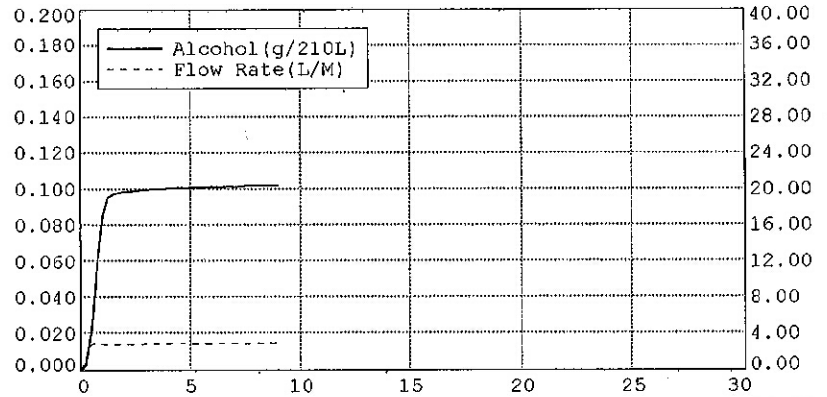
Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 05/19/2011  
 Time: 10:36:10

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100  
 TARGET AT 29.73: 0.099  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.102	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.103	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.103	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.102	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.102	10:42
BLANK TEST	0.000	10:43

Average = 0.1024  
 Std Dev = 0.0005



*COB 10/18*

## LINEARITY CHECK: Control Test 5

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
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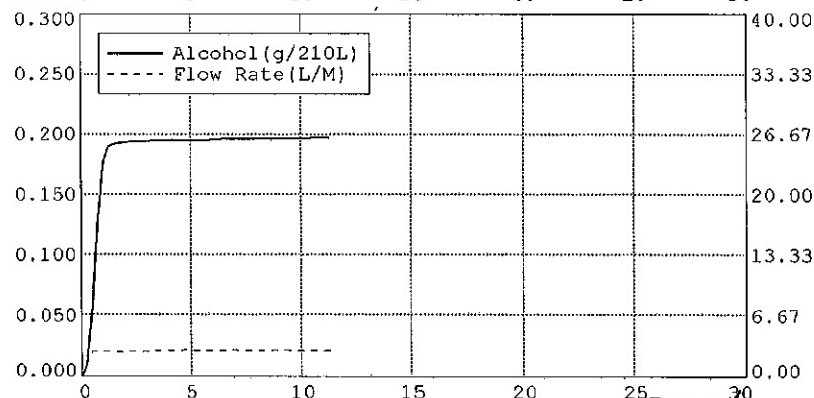
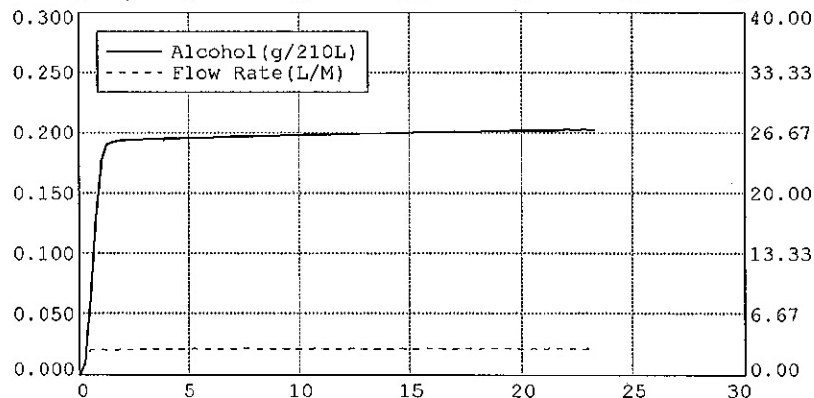
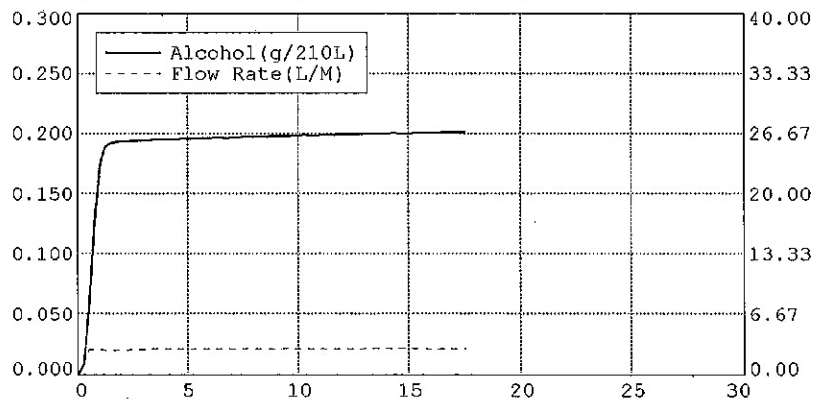
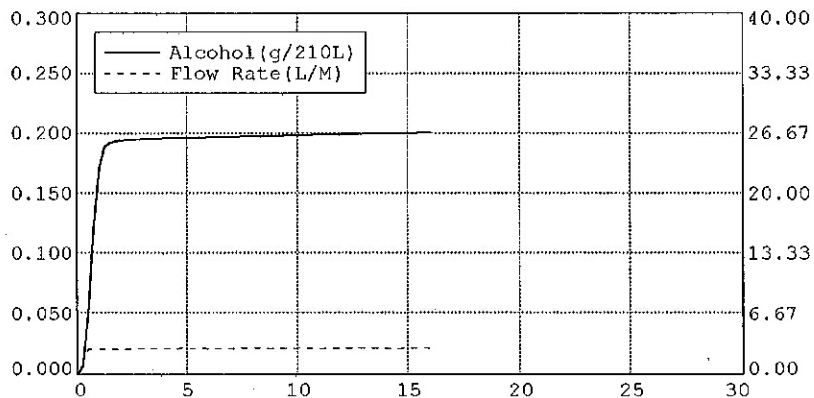
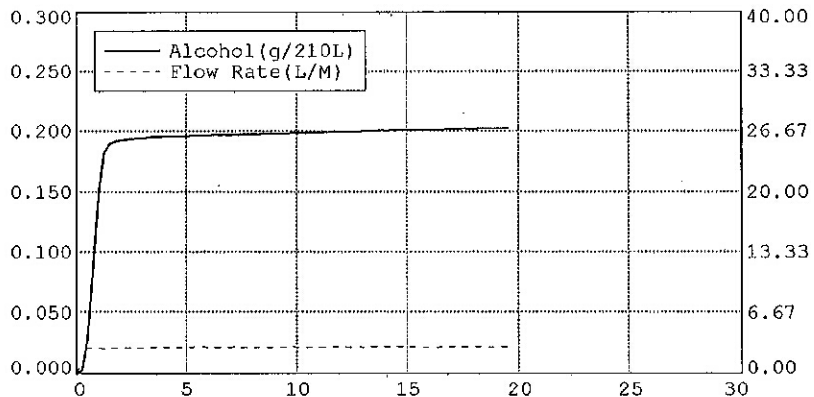
Date: 05/19/2011  
 Time: 10:47:06

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 TARGET AT 29.72: 0.198  
 LOT #: 07611200A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.202	10:48
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.200	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.201	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.203	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.198	10:54
BLANK TEST	0.000	10:55

Average = 0.2008  
 Std Dev = 0.0019



05/19/11

## LINEARITY CHECK: Control Test 6

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
 -----

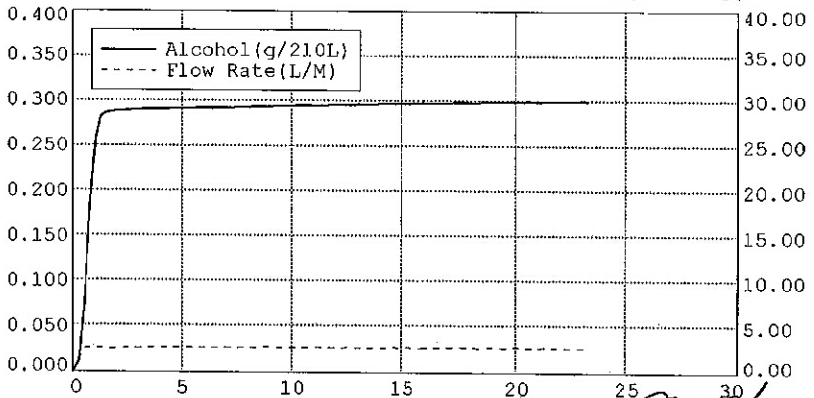
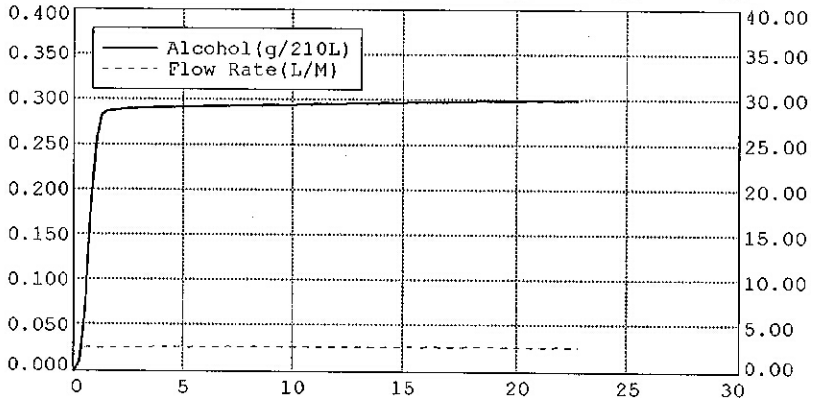
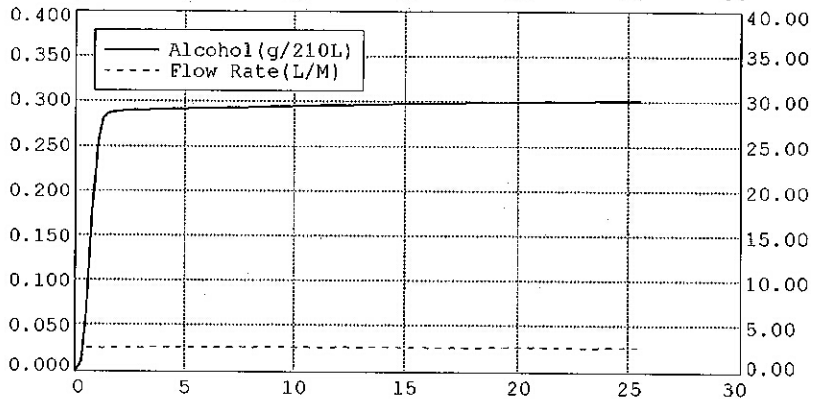
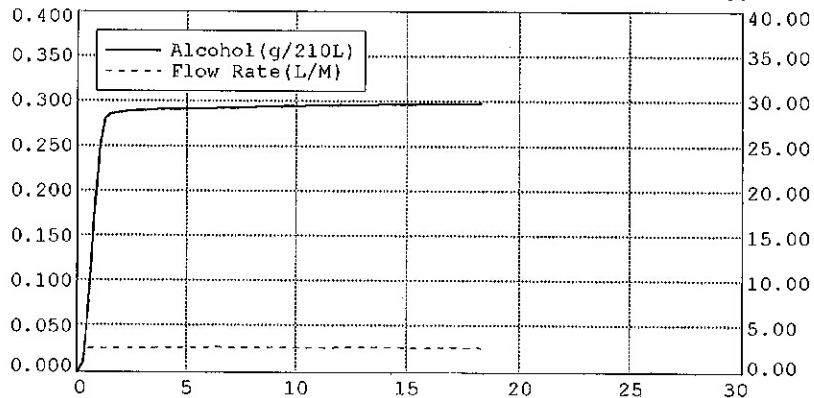
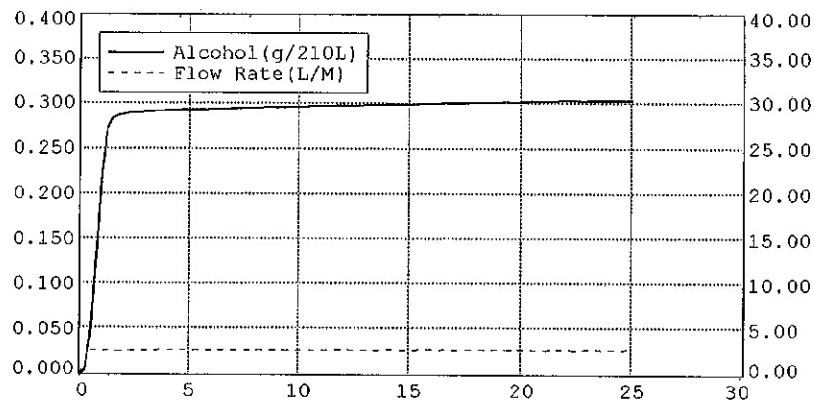
Date: 05/19/2011  
 Time: 10:58:59

## EXTERNAL STANDARD INFORMATION

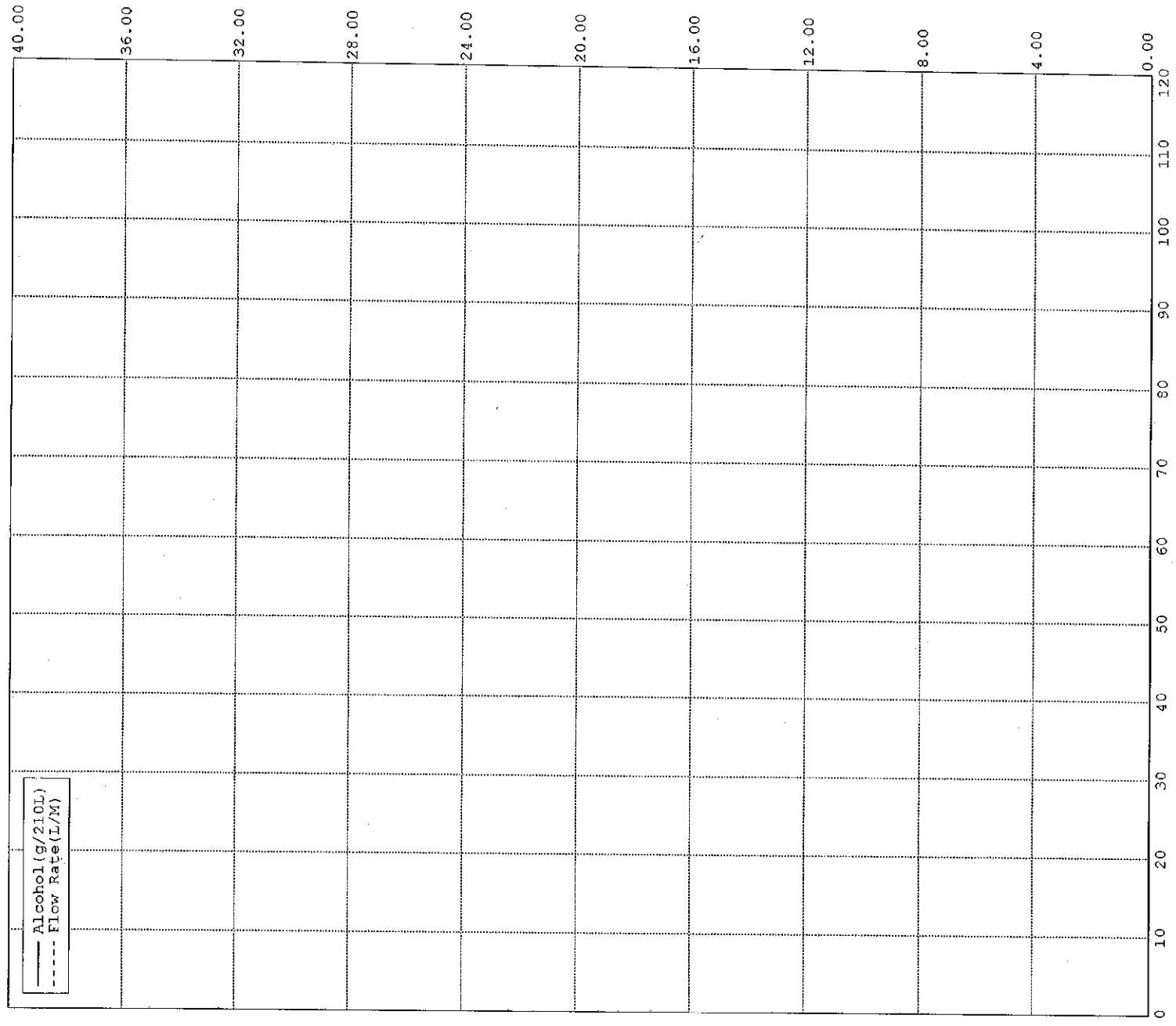
NOMINAL: 0.300  
 TARGET AT 29.72: 0.297  
 LOT #: 07411300A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
EXTERNAL STANDARD	0.303	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.298	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.301	11:04
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.300	11:06
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.300	11:08
BLANK TEST	0.000	11:09

Average = 0.3004  
 Std Dev = 0.0018



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SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
 -----  
 Date: 05/19/2011  
 Time: 11:40:50

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INCOMPLETE

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

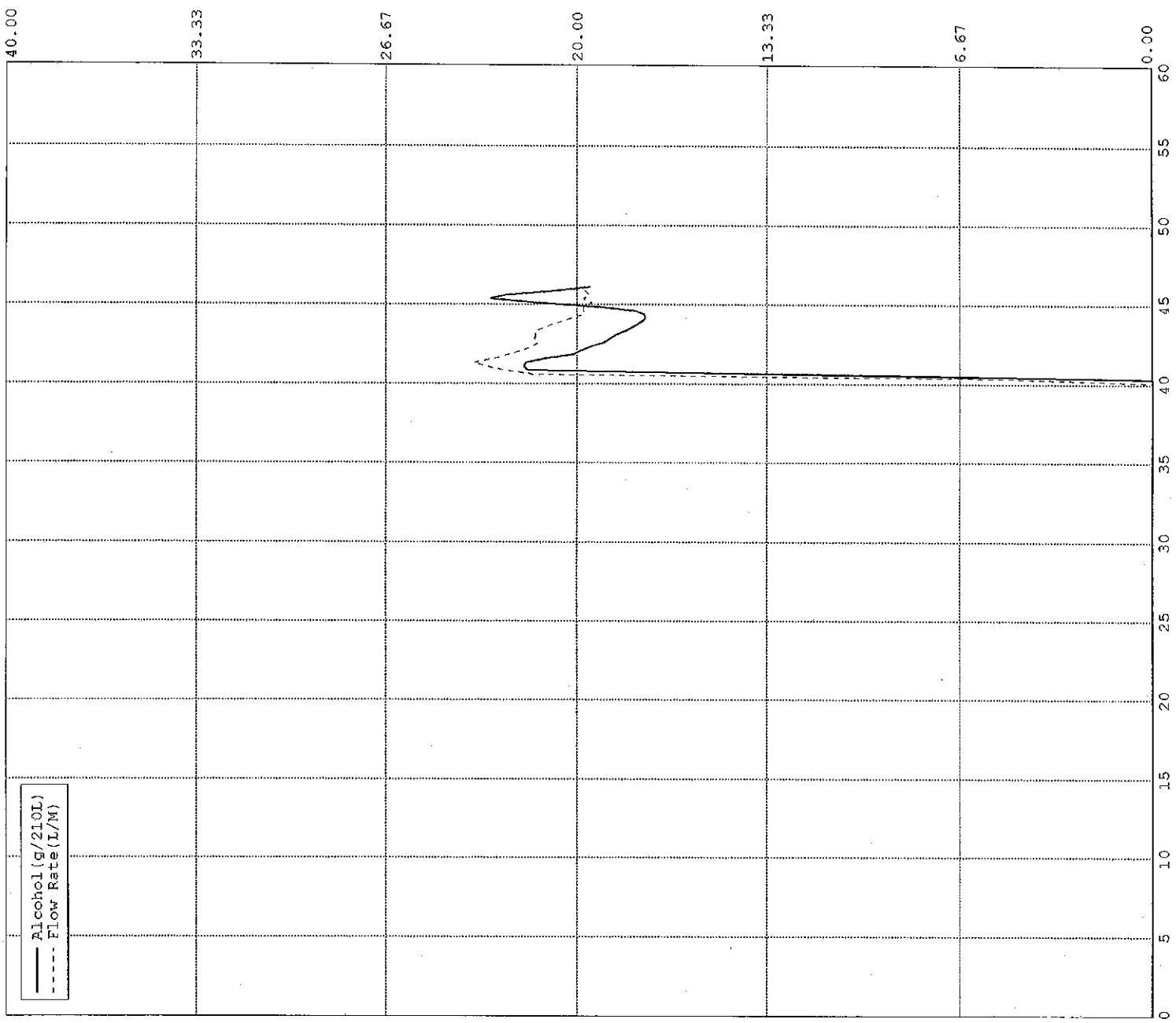
DEPT/AGENCY:  
 AAAA

CASE/REPORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.71: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 11:41  
 BLANK TEST 0.000 11:41  
 INTERNAL STANDARD VERIFIED 11:42  
 EXTERNAL STANDARD 0.082 11:42  
 BLANK TEST 0.000 11:43  
 SUBJECT SAMPLE INCOMPLETE 11:45

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**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dmt: 100403

Date: 05/19/2011  
 Time: 13:59:14

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INVALID

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

DEPT/AGENCY:  
 AAAA

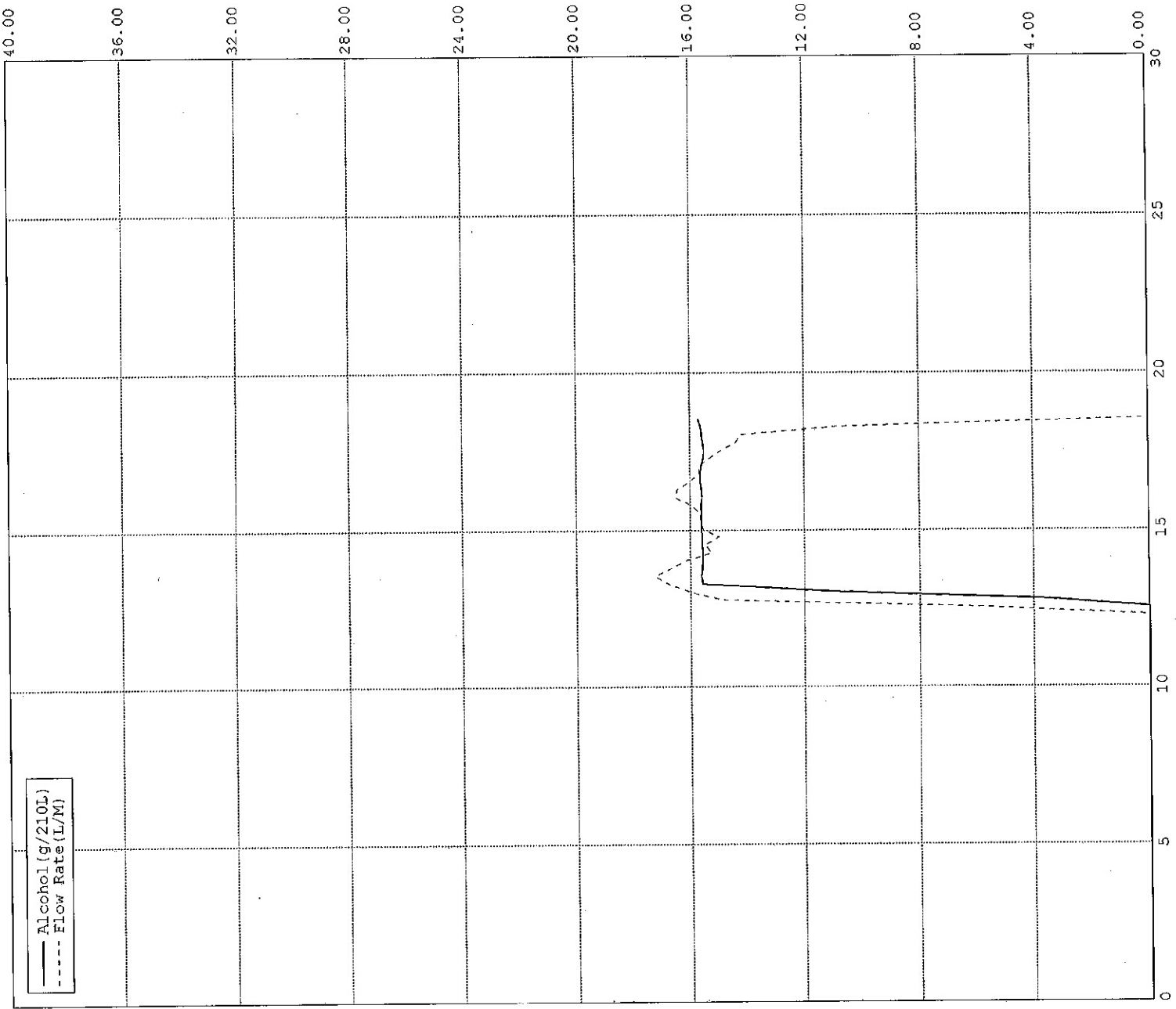
CASE/REPORT: 11-1234  
 TEST TYPE: TEST

**EXTERNAL STANDARD INFORMATION**

NOMINAL: 0.080  
 TARGET AT 29.67: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 14:00  
 BLANK TEST 0.000 14:00  
 INTERNAL STANDARD VERIFIED 14:00  
 EXTERNAL STANDARD 0.083 14:01  
 BLANK TEST 0.000 14:02  
 SUBJECT SAMPLE Invalid 14:03

*COB*  
*COB 5/18*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER Gmt: 100403

Date: 05/19/2011  
Time: 14:06:00

SUBJECT NAME:  
TEST TEST  
LICENSE #: INTF-ACET

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

DEPT/AGENCY:  
AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

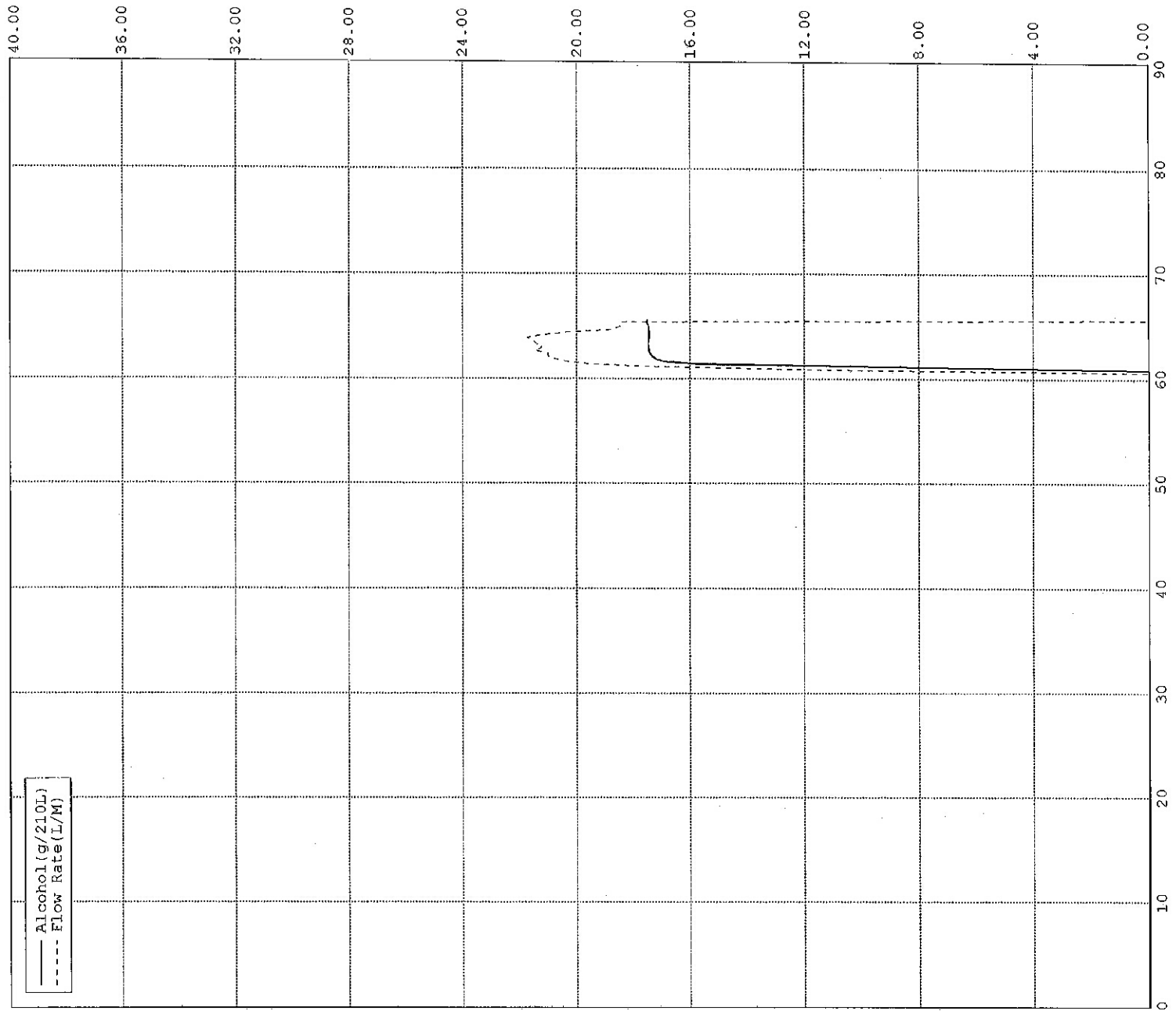
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.67: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:07
BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.083	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE	INTERFERENCE	14:09

*COB*

*COB 15/18*



SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATA MASTER dnt: 100403  
 -----  
 Date: 05/19/2011  
 Time: 14:21:14

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTF-ISO

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

DEPT/AGENCY:  
 AAAA

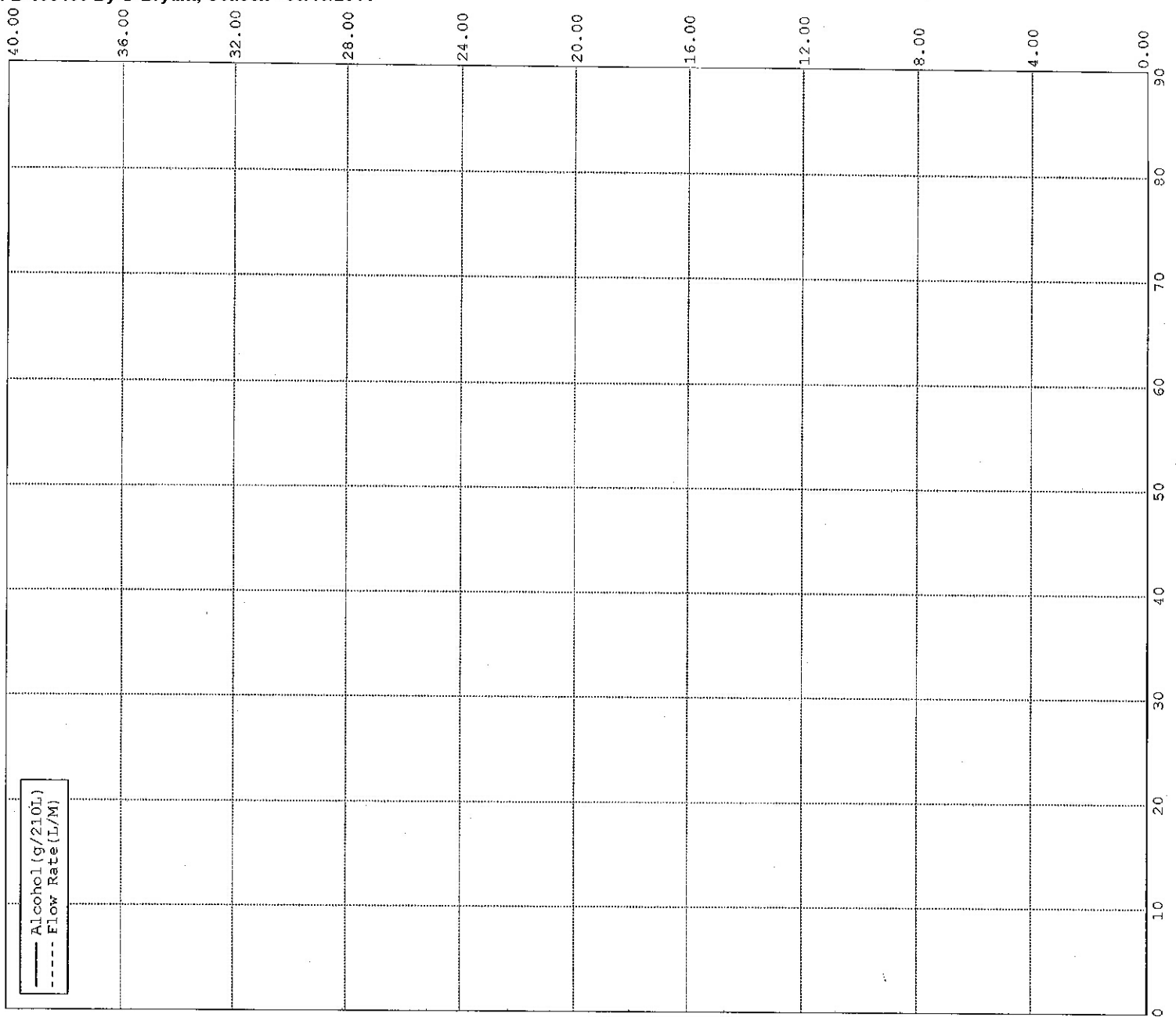
CASE/REPORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.69: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 14:22  
 BLANK TEST 0.000 14:22  
 INTERNAL STANDARD VERIFIED 14:23  
 EXTERNAL STANDARD 0.082 14:23  
 BLANK TEST 0.000 14:24  
 SUBJECT SAMPLE INTERFERENCE 14:25

CAB  
 CAB 10/18





**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
 -----  
 Date: 05/19/2011  
 Time: 13:54:03

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** RFI

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

**DEPT/AGENCY:**  
 AAAA1

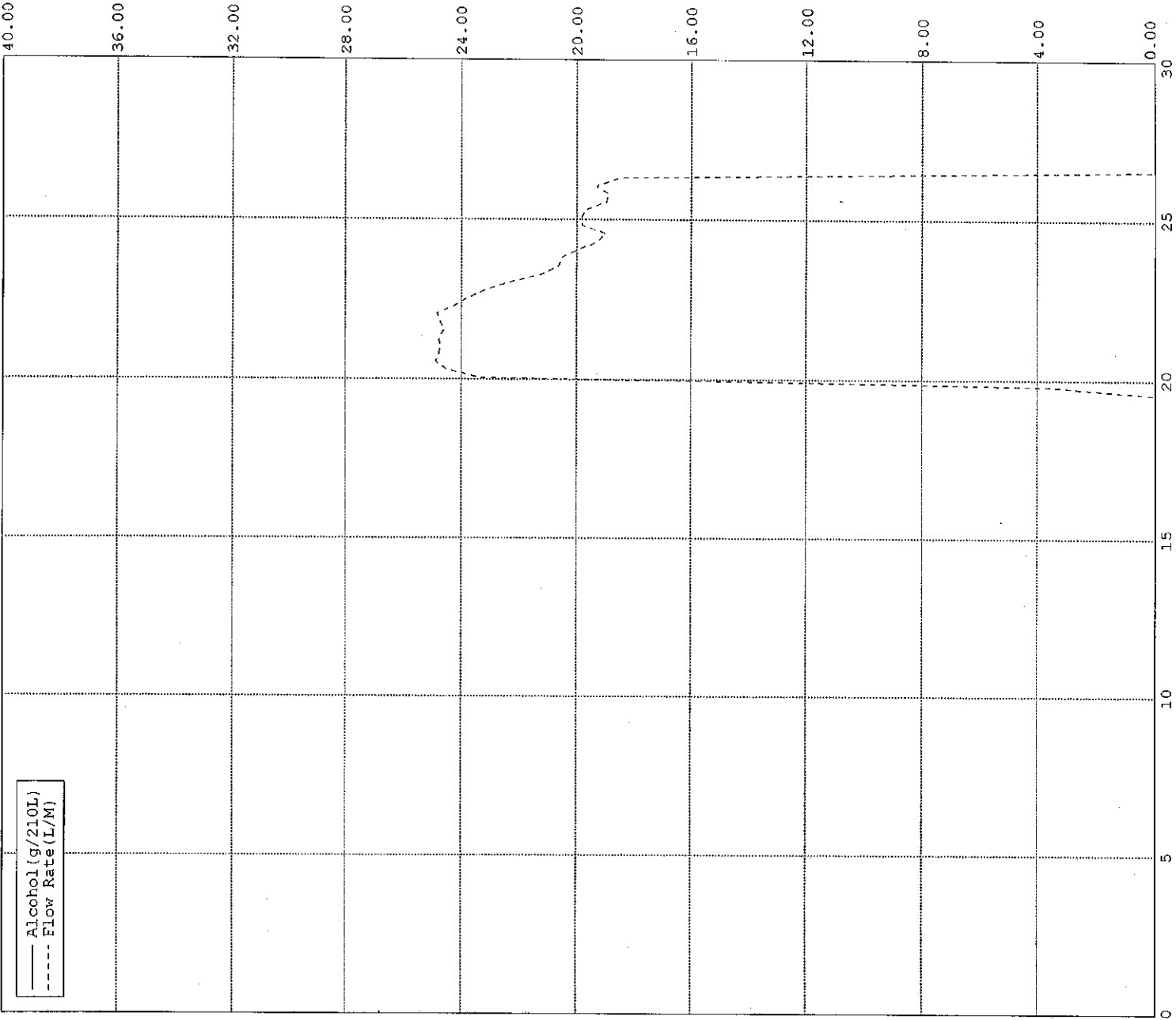
**CASE/REPORT:** 11-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.68: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

**DIAGNOSTIC CHECK**  
 PASSED 13:55  
 BLANK TEST 0.000 13:55  
 INTERNAL STANDARD VERIFIED 13:55  
 EXTERNAL STANDARD 0.082 13:55  
 BLANK TEST 0.000 13:56

**RFI Detected**

*COB 5/17/18*



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100403  
 -----  
 Date: 05/19/2011  
 Time: 14:28:19

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** NON-DRINKING

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

**DEPT/AGENCY:**  
 AAAA

**CASE/REPORT:** 11-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.67: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

<b>DIAGNOSTIC CHECK</b>	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.082	14:30
BLANK TEST	0.000	14:31
SUBJECT SAMPLE	0.000	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.082	14:33
BLANK TEST	0.000	14:34

*COB*

*COB 18/12*

Final page for report

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12/10/2013