	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 # 102588Analyst Colleen O'BryantDate 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 1600 mL
5. Dry Gas Linearity Test (attached)
  - a. Levels Used 
    - i. 0.020g/210L Mnf TLMO Lot 02811080A1 Exp 2/1/13
    - ii. 0.040g/210L Mnf TLMO Lot 02811040A2 Exp 2/1/13
    - iii. 0.080g/210L Mnf TLMO Lot 83609080A1 Exp 1/1/12
    - iv. 0.100g/210L Mnf TLMO Lot 05611100A2 Exp 3/1/13
    - v. 0.200g/210L Mnf TLMO Lot 07611200A2 Exp 3/1/13
    - vi. 0.300g/210L Mnf TLMO 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 2/2/11
      1. Simulator Calibration Date 10/18/10 SN DR 10267
    - ii. Isopropanol - Mnf Guth Lot 9340 Level 0.080 Exp 2/2/11
      1. Simulator Calibration Date 8/4/10 SN SD 1302
  - 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: 100388  
-----

Date: 05/03/2011  
Time: 12:13:26

## VERSIONS

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

## TEMPERATURES

Sample Chamber = 48.7°C      PASSED  
Breath Tube      = 48.0°C      PASSED

## PUMP INFO

Flow Rate = 5.519 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 dnt: 100388-----  
Date: 05/03/2011  
Time: 12:28 PM

## Temperatures (°C)

Sample Cell: 48.9°C  
Breath Tube: 47.4°CCurrent Barometer 29.8 in  
Volume (Ltr) 1.45

## Settings

Lamp: 1.78 V  
Bias: 79 V  
Cooler: 1.58 V  
Chopper: 537 Hz

## Voltages (V)

Flow: 1.05 V  
Detector: 0.132 V

05/03/11

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100388  
-----

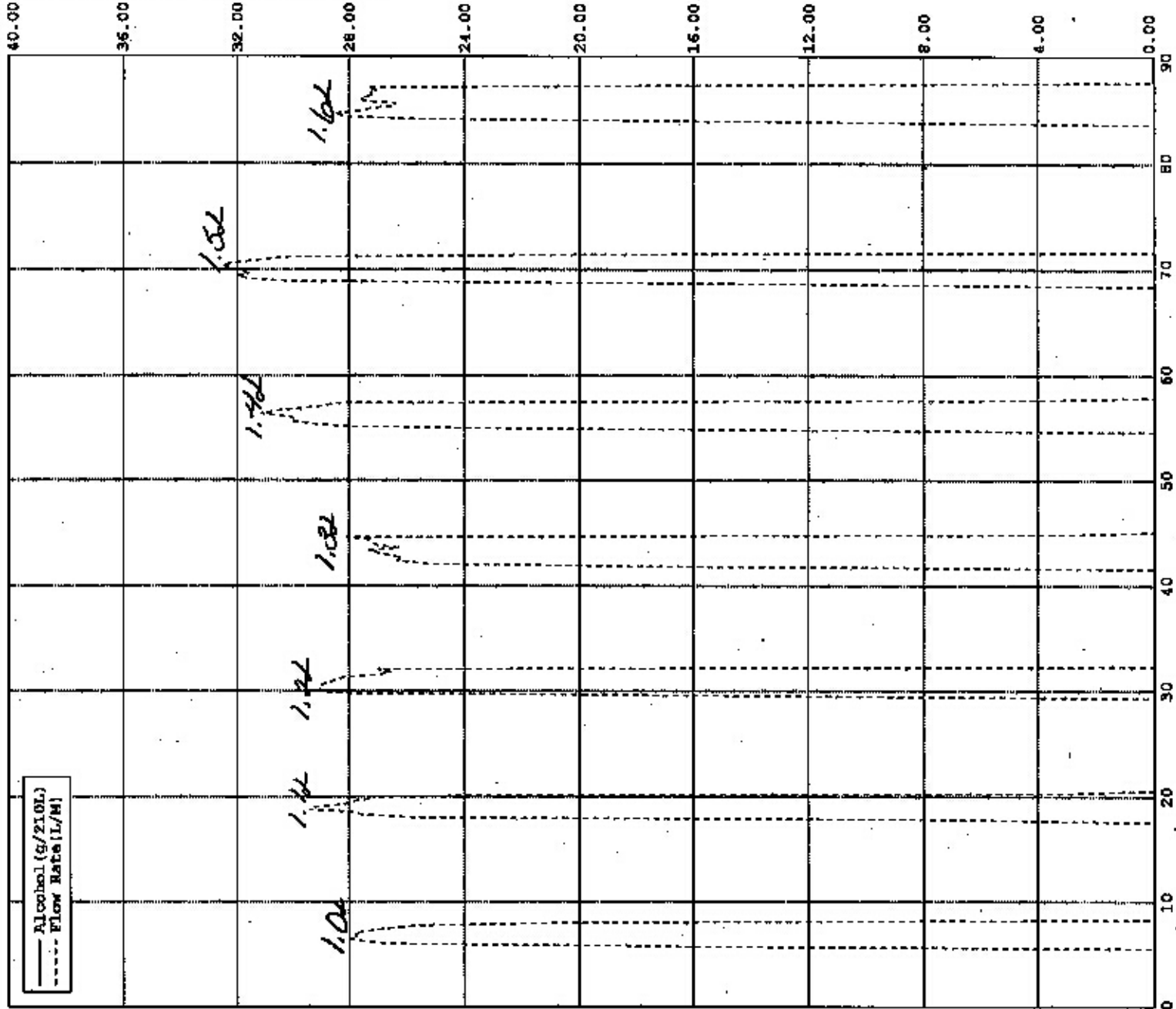
Date: 05/02/2011  
Time: 14:23:26

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 5237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2012

Ca = 0.1000  
CAL = 0.991067 0.800 <= CAL < 1.200  
b1 = 0.0003 0.0000 <= b1 < 0.0040  
b2 = 0.0054 0.0010 <= b2 < 0.0100  
b3 = 0.0002 0.0000 <= b3 < 0.0040  
Xq = 0.0956 0.0500 <= Xq < 0.2000  
a21 = 1.153567 1.050 <= a21 < 1.300  
a31 = 0.558289 0.300 <= a31 < 0.800

*COB 4/10*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATA MASTER dmt: 100388

Date: 05/03/2011  
 Time: 12:35:57

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME TEST

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

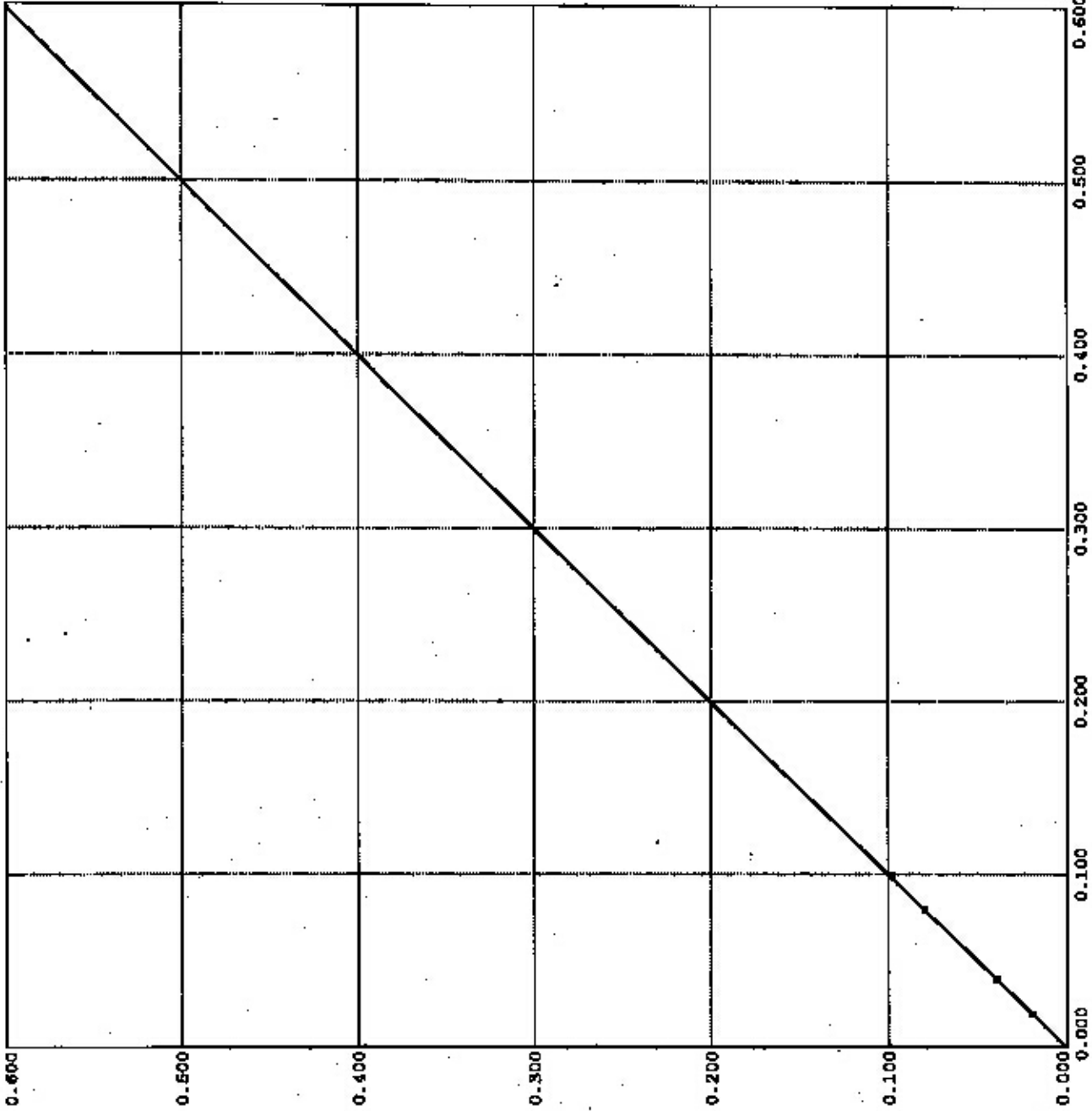
DEPT/AGENCY:  
 AAAA

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	12:37
BLANK TEST	0.000	12:37
INTERNAL STANDARD	VERIFIED	12:37
EXTERNAL STANDARD	0.080	12:37
BLANK TEST	0.000	12:38
SUBJECT SAMPLE	0.000	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.081	12:41
BLANK TEST	0.000	12:42

COB 5/18



LINEARITY CHECK			
Alaska Department of Public Safety			
DATAMASTER Unit: 100388			
Date: 05/03/2011			
Time: 12:44:22			
SUPERVISOR NAME:			
COLLEEN S O'BRYANT			
OPERATOR'S #: 6237			
TARGET	AVERAGE	STD. DEV.	
0.019	0.0208	0.0004	
0.039	0.0400	0.0000	
0.079	0.0802	0.0004	
0.099	0.0992	0.0004	
0.198	0.1998	0.0018	
0.298	0.2996	0.0011	
SLOPE		=	1.001656
R <sup>2</sup>		=	0.999985

*CB*

*05/04/11*

LINEARITY CHECK: Control Test 1

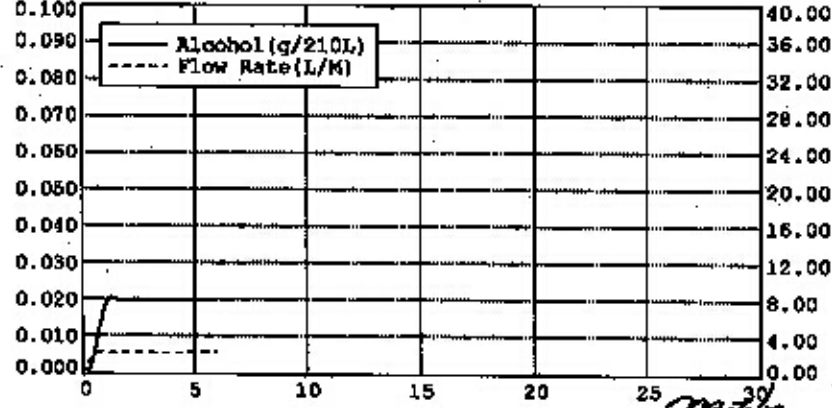
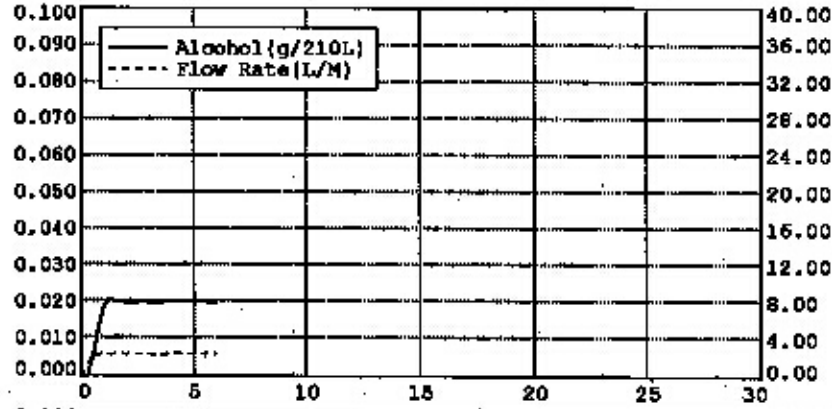
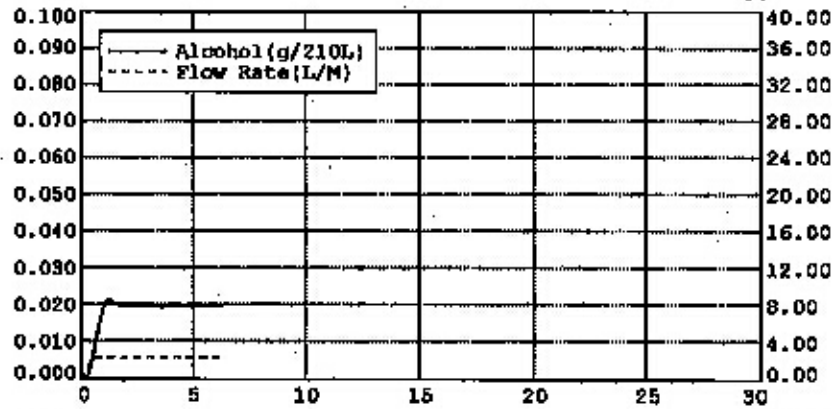
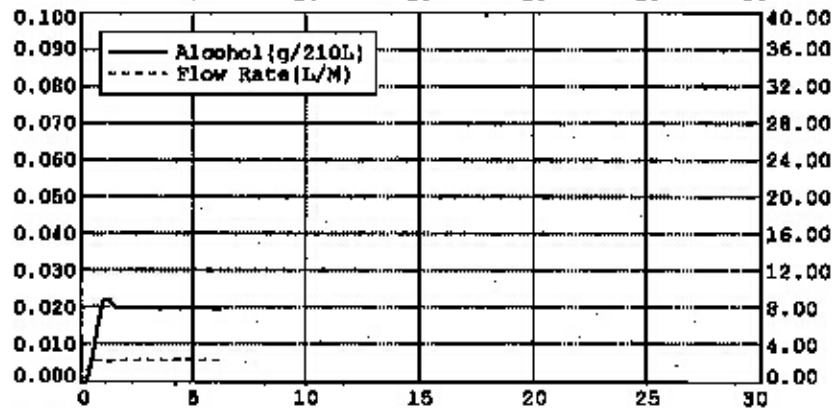
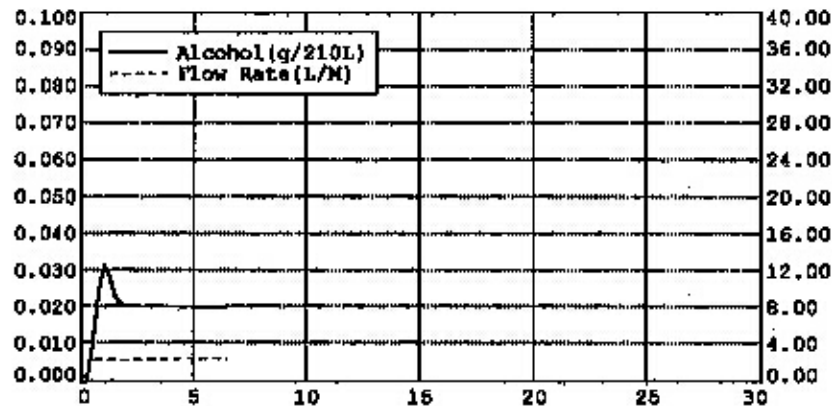
Alaska Department of Public Safety  
 DATAMASTER dnt: 100388

Date: 05/03/2011  
 Time: 12:44:23

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.77: 0.019  
 LOT #: 02811020A1  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.021	12:46
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.021	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.021	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.021	12:50
BLANK TEST	0.000	12:51

Average = 0.0208  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dnt: 100386

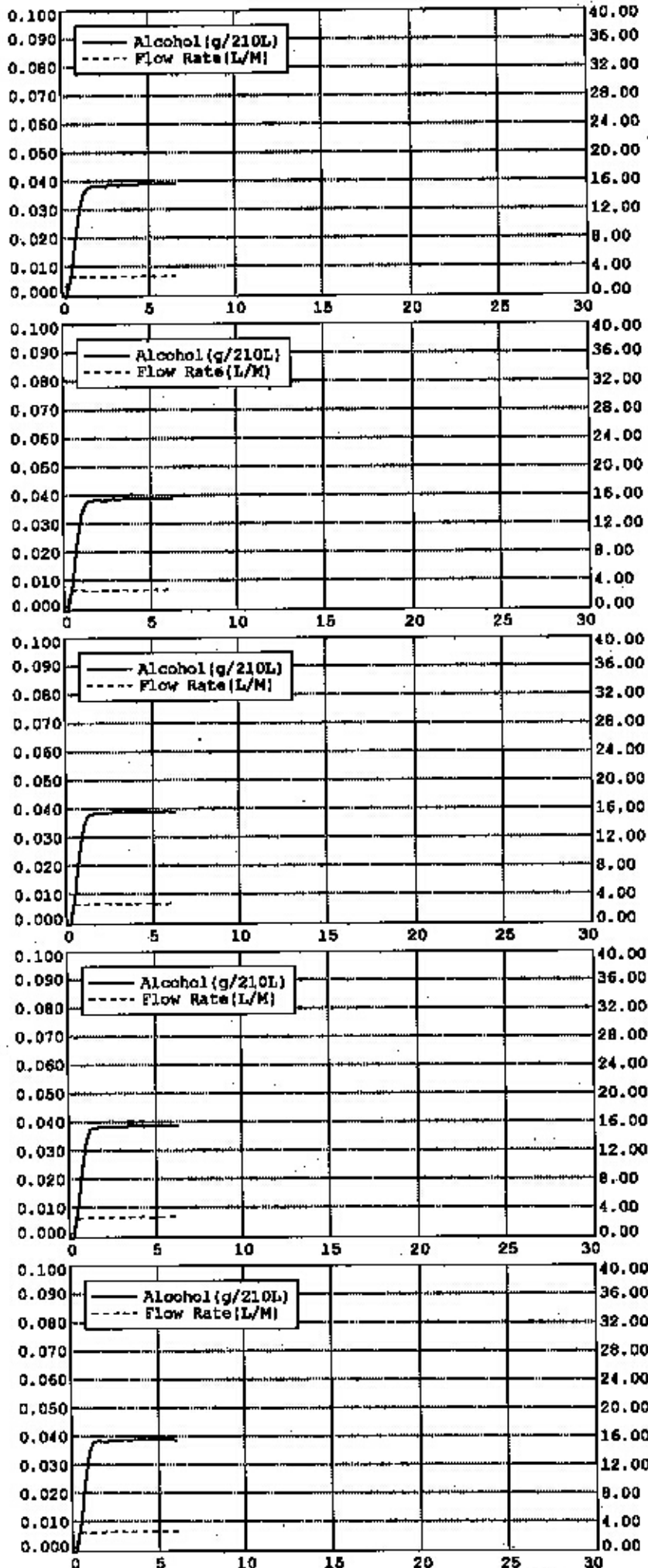
Date: 05/03/2011  
 Time: 12:52:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.77: 0.039  
 LOT #: 02811048A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.040	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.040	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.040	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.040	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.040	12:57
BLANK TEST	0.000	12:58

Average = 0.0400  
 Std Dev = 0.0000





LINEARITY CHECK: Control Test 3

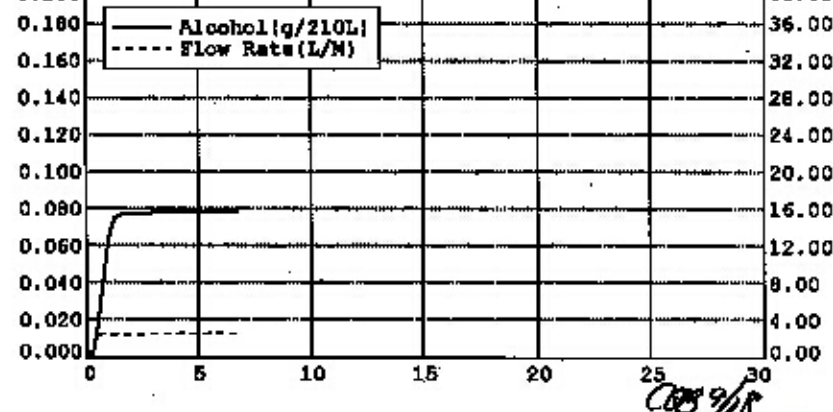
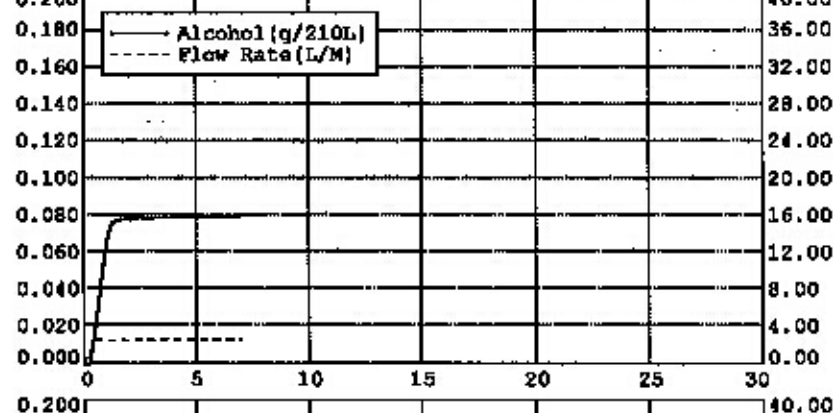
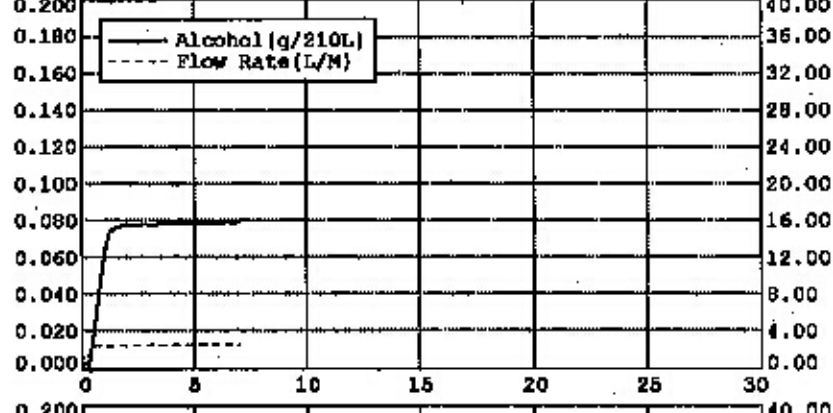
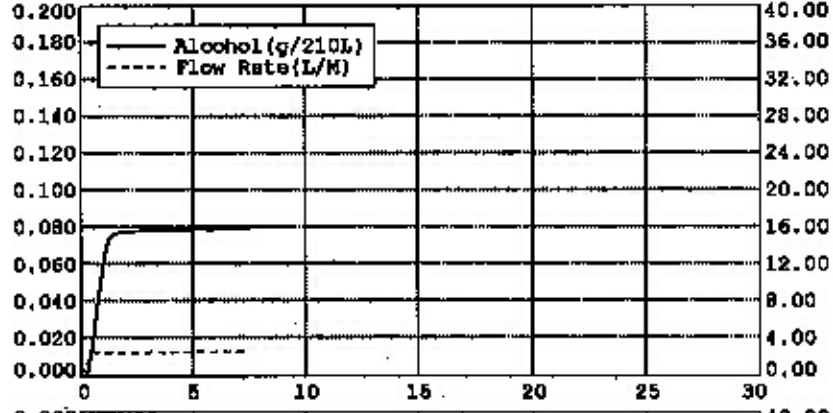
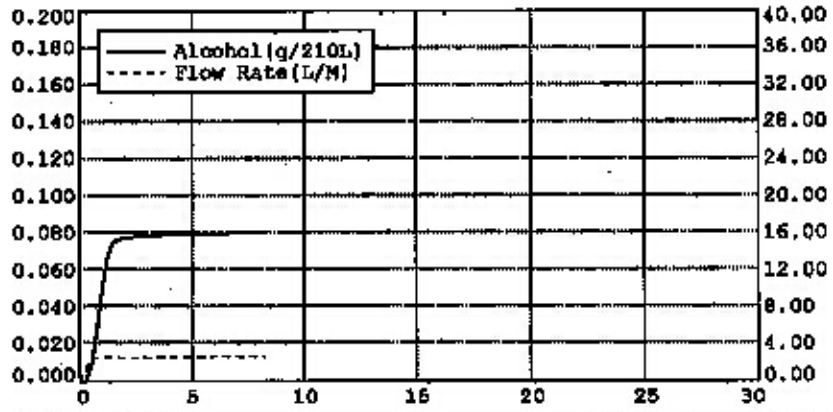
Alaska Department of Public Safety  
 DATAMASTER dmt: 100388

Date: 05/03/2011  
 Time: 12:59:34

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.77: 0.079  
 LOT #: 33609060A1  
 EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:00
INTERNAL STANDARD	VERIFIED	13:00
EXTERNAL STANDARD	0.081	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.080	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.080	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.080	13:05
BLANK TEST	0.000	13:06

Average = 0.0802  
 Std Dev = 0.0004



## LINEARITY CHECK: Control Test 4

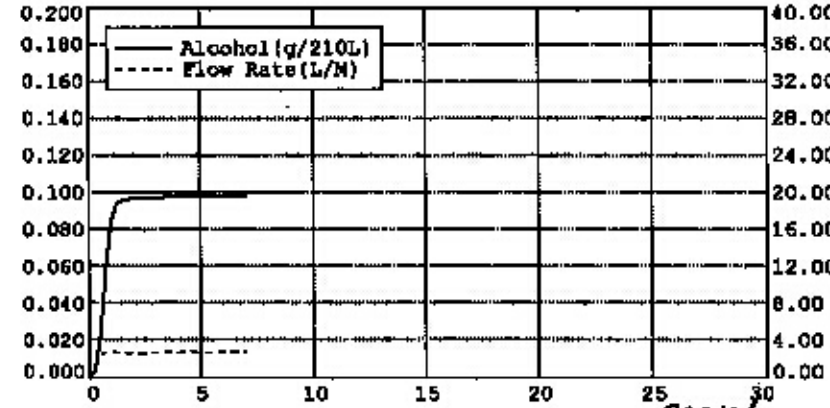
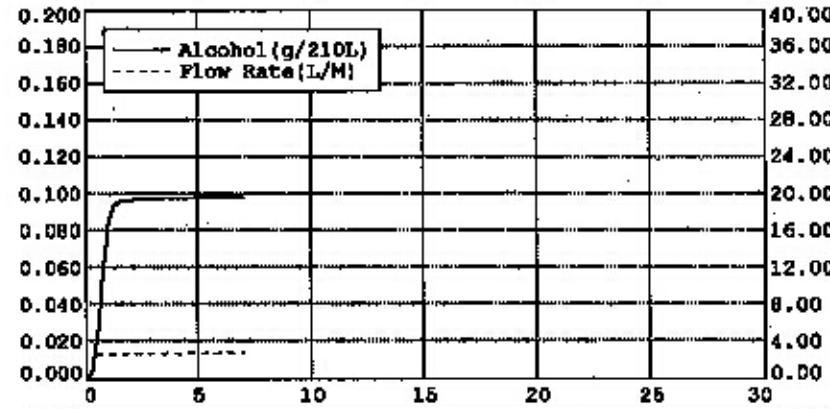
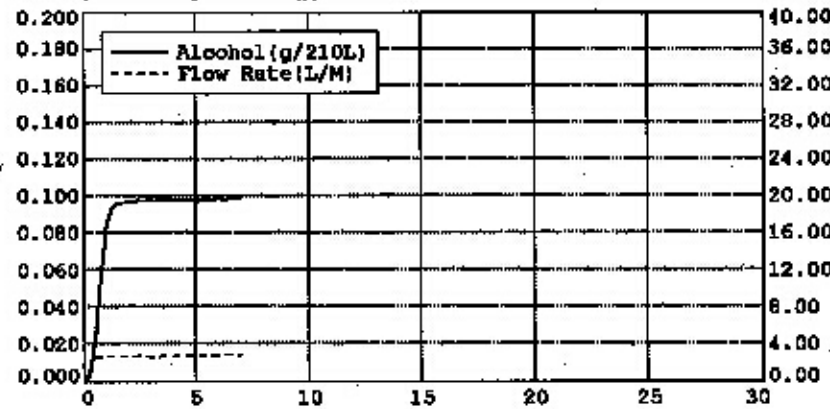
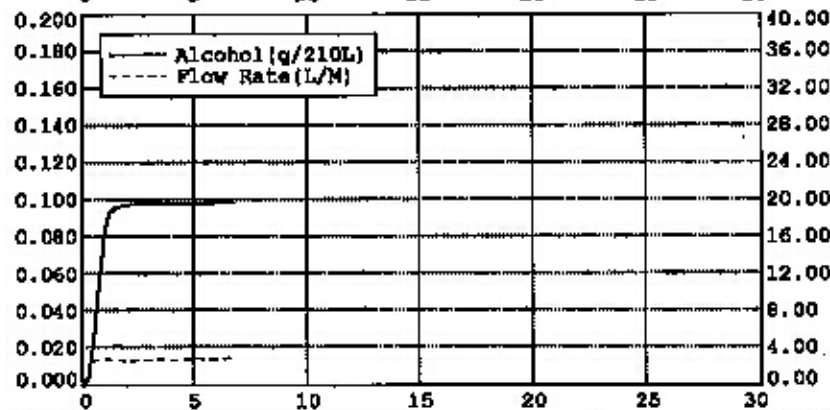
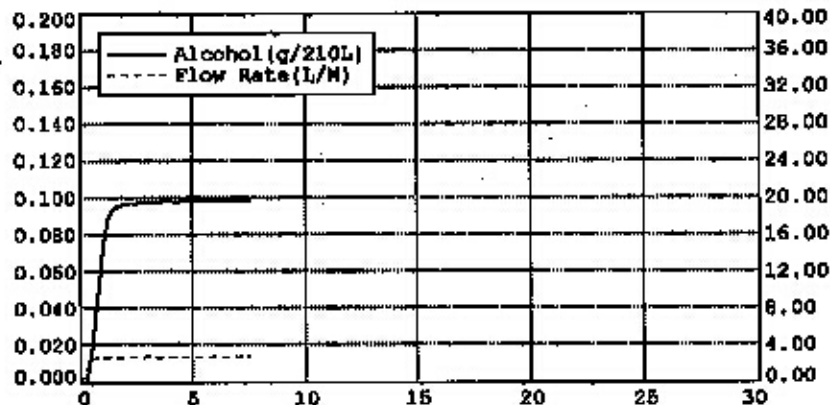
Alaska Department of Public Safety  
DAZAMASTER dmt: 100388

Date: 05/03/2011  
Time: 13:07:10

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100  
TARGET AT 29.78: 0.099  
LOT #: 0561110022  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.100	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.099	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.099	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.099	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.099	13:13
BLANK TEST	0.000	13:13

Average = 0.0992  
Std Dev = 0.0004



05/10/11

LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dat: 100388

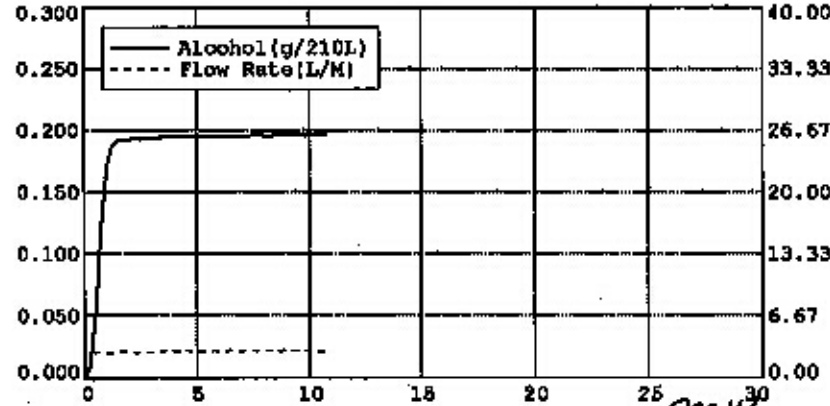
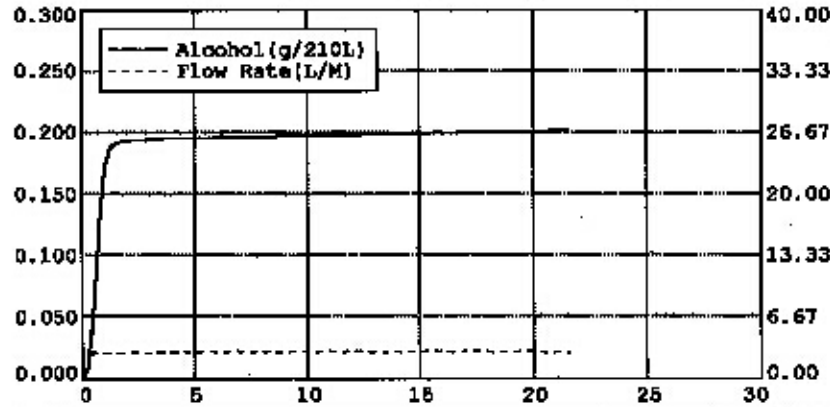
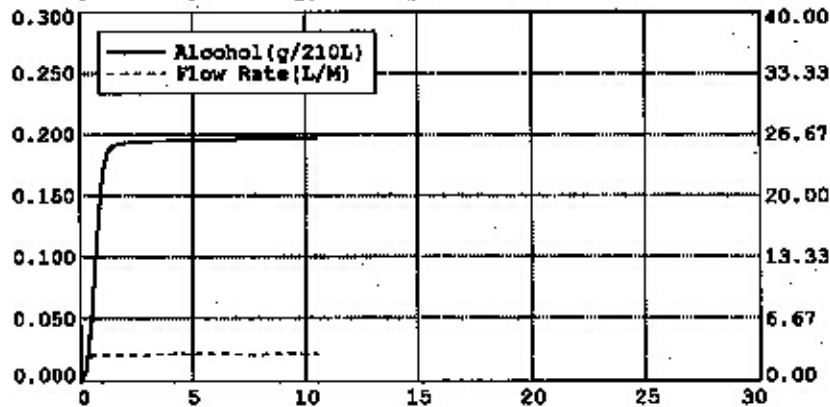
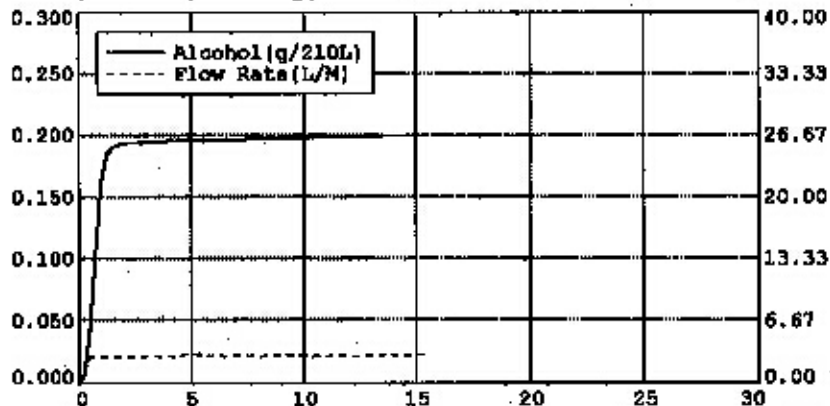
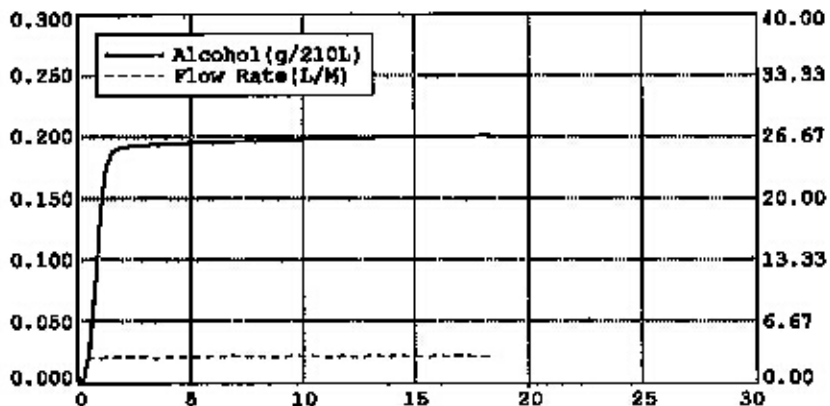
Date: 05/03/2011  
 Time: 13:14:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 TARGET AT 29.77: 0.198  
 LOT #: 07611200A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.201	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.200	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.198	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.202	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.198	13:21
BLANK TEST	0.000	13:22

Average = 0.1998  
 Std Dev = 0.0018



## LINEARITY CHECK: Control Test 6

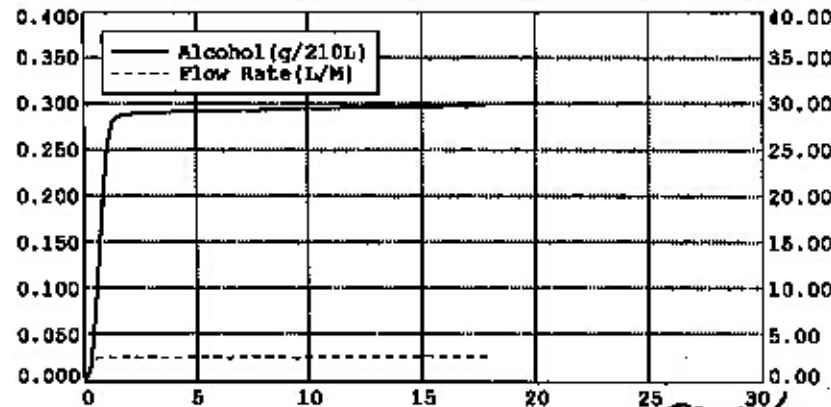
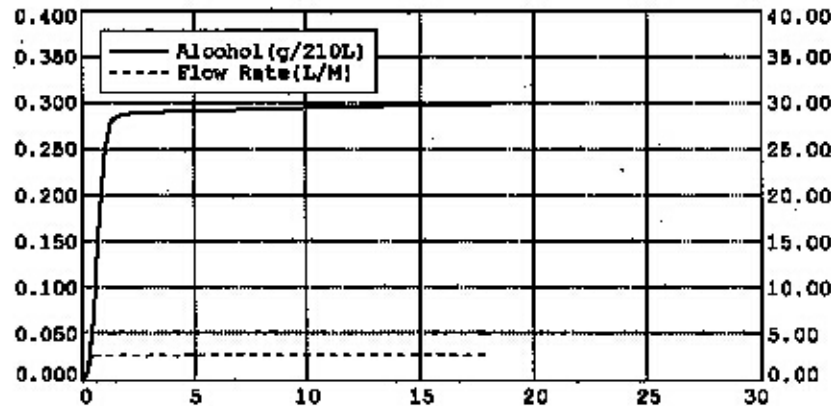
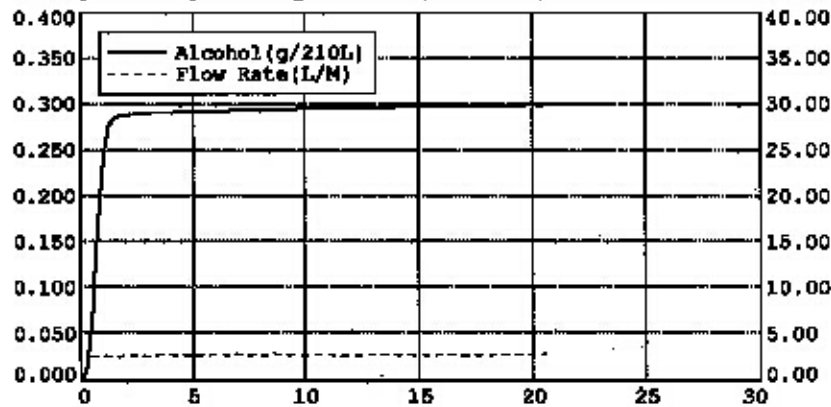
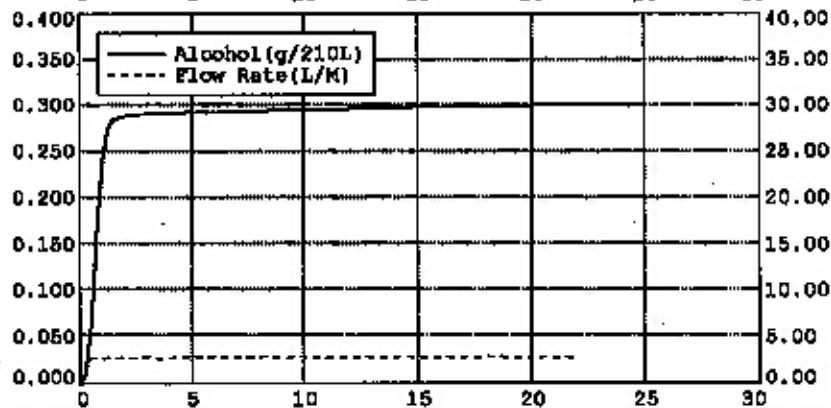
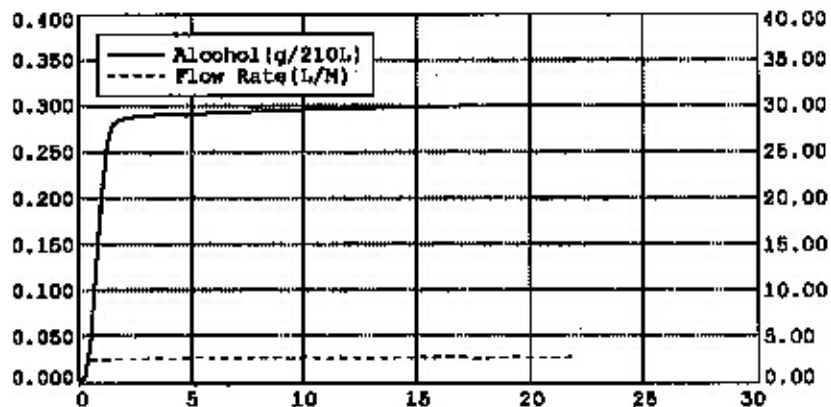
Alaska Department of Public Safety  
 DATAMASTER dnt: 100388

Date: 05/03/2011  
 Time: 13:23:41

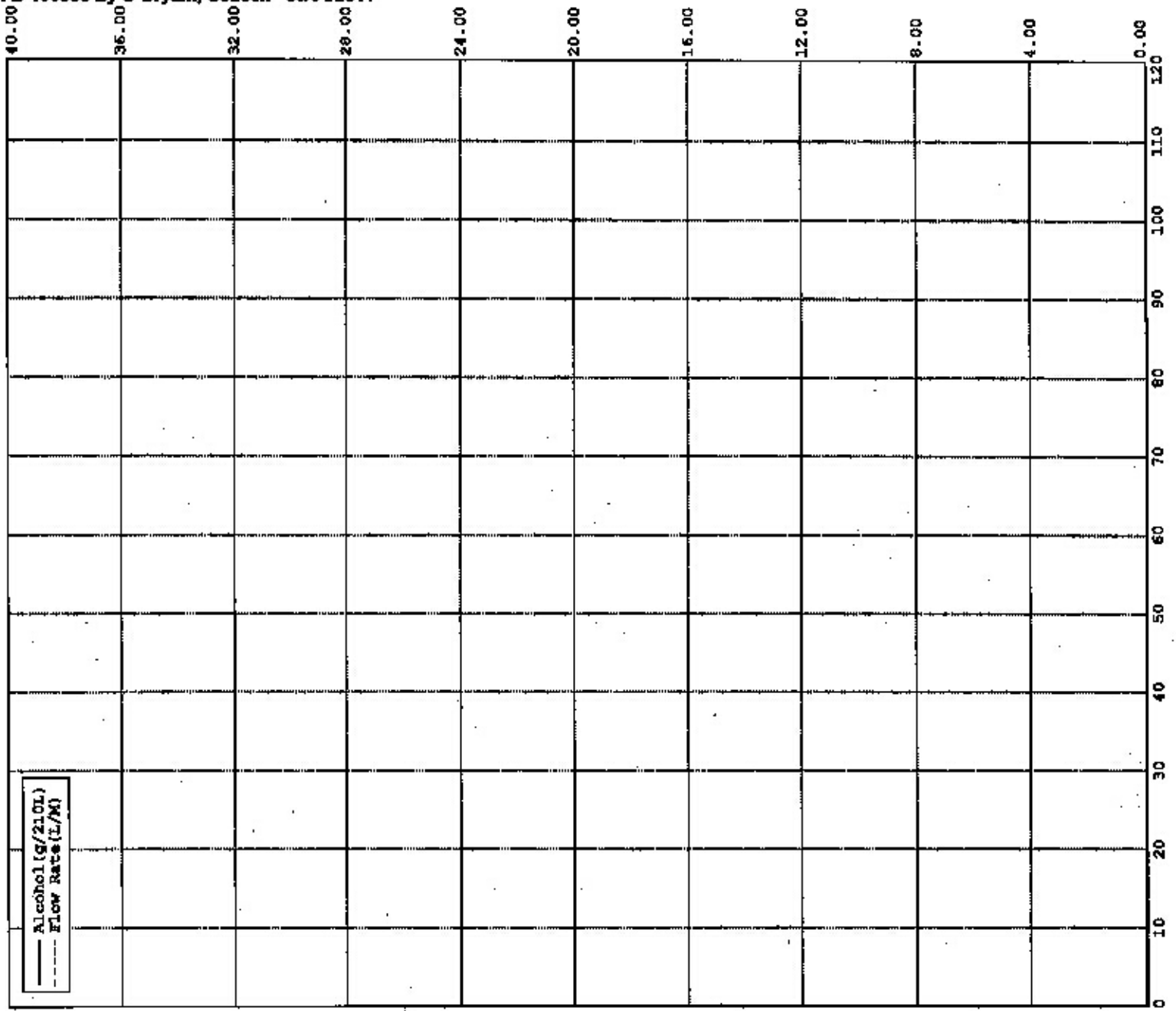
EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.300  
 TARGET AT 29.78: 0.298  
 LOT #: 07411300A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.301	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.300	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.300	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.299	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.298	13:31
BLANK TEST	0.000	13:32

Average = 0.2996  
 Std Dev = 0.0011



005/13/11



Alcohol (g/21.0L)  
Flow Rate (L/M)

**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dmt: 100388

Date: 05/03/2011  
 Time: 13:54:38

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INCOMPLETE

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

DEPT/AGENCY:  
 AAAL  
 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	13:55
BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.080	13:56
BLANK TEST	0.000	13:57
SUBJECT SAMPLE	INCOMPLETE	13:59

*COB*

*COB 13/18*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAGASTER dnt: 100388

Date: 05/03/2011  
 Time: 13:36:22

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INVALID

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

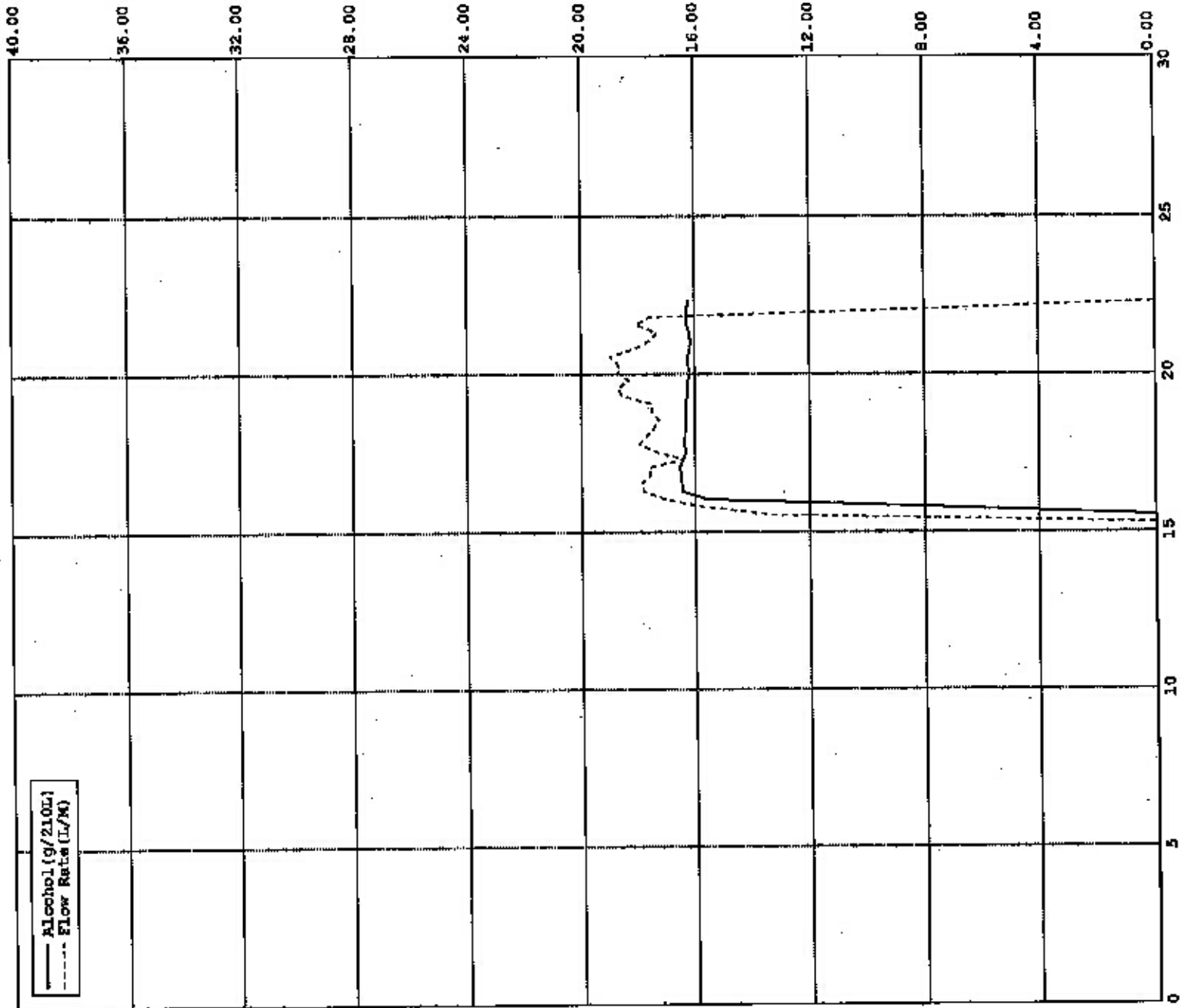
DEPT/AGENCY:  
 AAAA

CASE/REPORT: 11-1234  
 TEST TYPE: TEST

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

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:37
BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.081	13:37
BLANK TEST	0.000	13:38
SUBJECT SAMPLE	Invalid	13:39

*CS*  
*CS 5/4/11*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAWASTER dmt: 100388

Date: 05/03/2011  
 Time: 13:42:20

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTF - ACFT

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

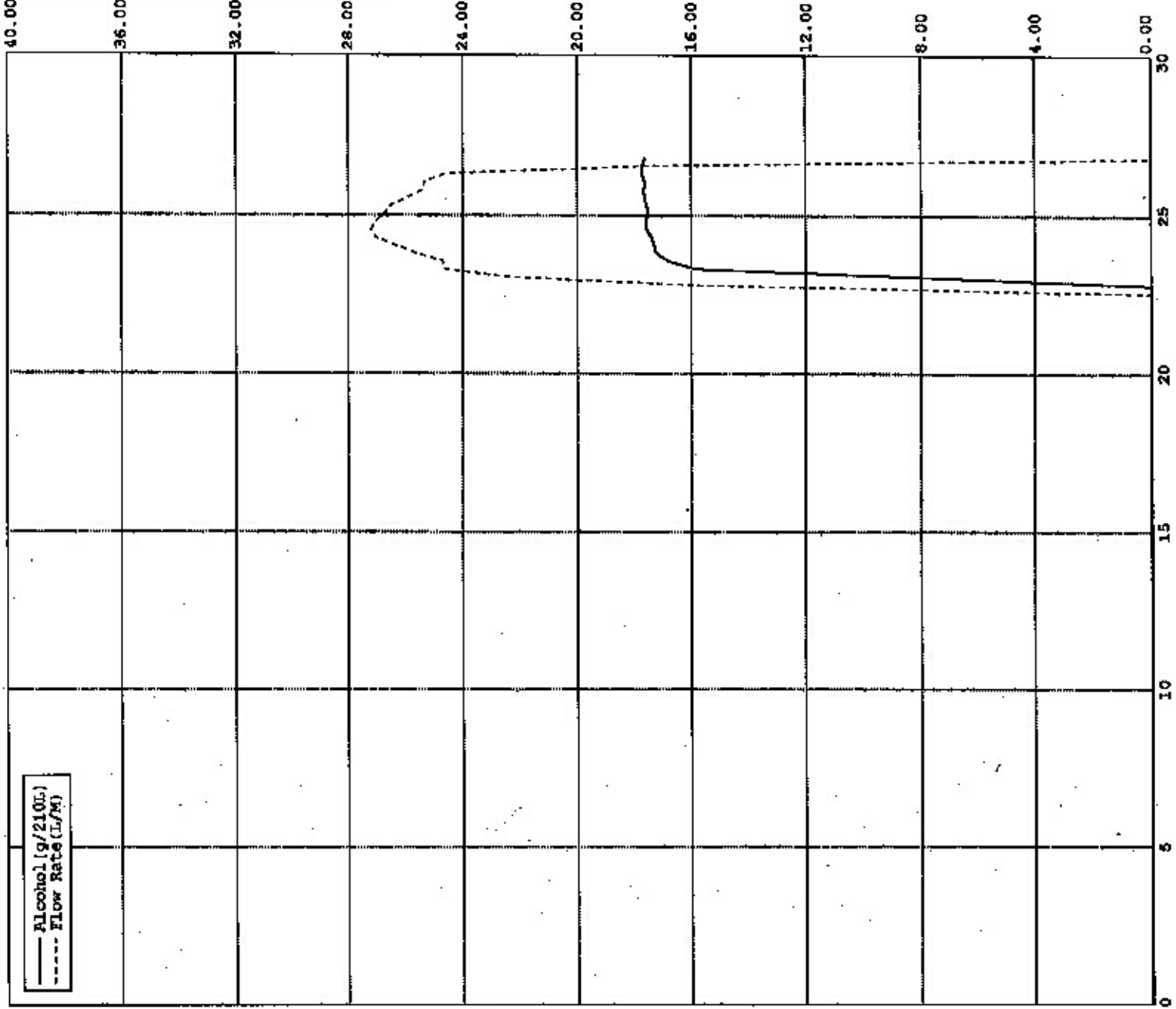
DEPT/AGENCY:  
 AAA1

CASE/REFORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.78: 0.079  
 IOT #: 3360900AL  
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK PASSED 13:44  
 BLANK TEST 0.000 13:44  
 INTERNAL STANDARD VERIFIED 13:44  
 EXTERNAL STANDARD 0.080 13:44  
 BLANK TEST 0.000 13:45  
 SUBJECT SAMPLE INTERFERENCE 13:45

CB  
 CB 5/3



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER chit: 100388

Date: 05/03/2011  
 Time: 13:47:46

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 29.77: 0.079  
 LOT #: 33609080A1  
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK PASSED 13:49  
 BLANK TEST 0.000 13:49  
 INTERNAL STANDARD VERIFIED 13:49  
 EXTERNAL STANDARD 0.081 13:49  
 BLANK TEST 0.000 13:50  
 SUBJECT SAMPLE INTERFERENCE 13:51

CB  
 CB 10/18



**SUBJECT TEST**

Alaska Department of Public Safety  
DATAMASTER dnt: 100388

Date: 05/03/2011  
Time: 14:01:40

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

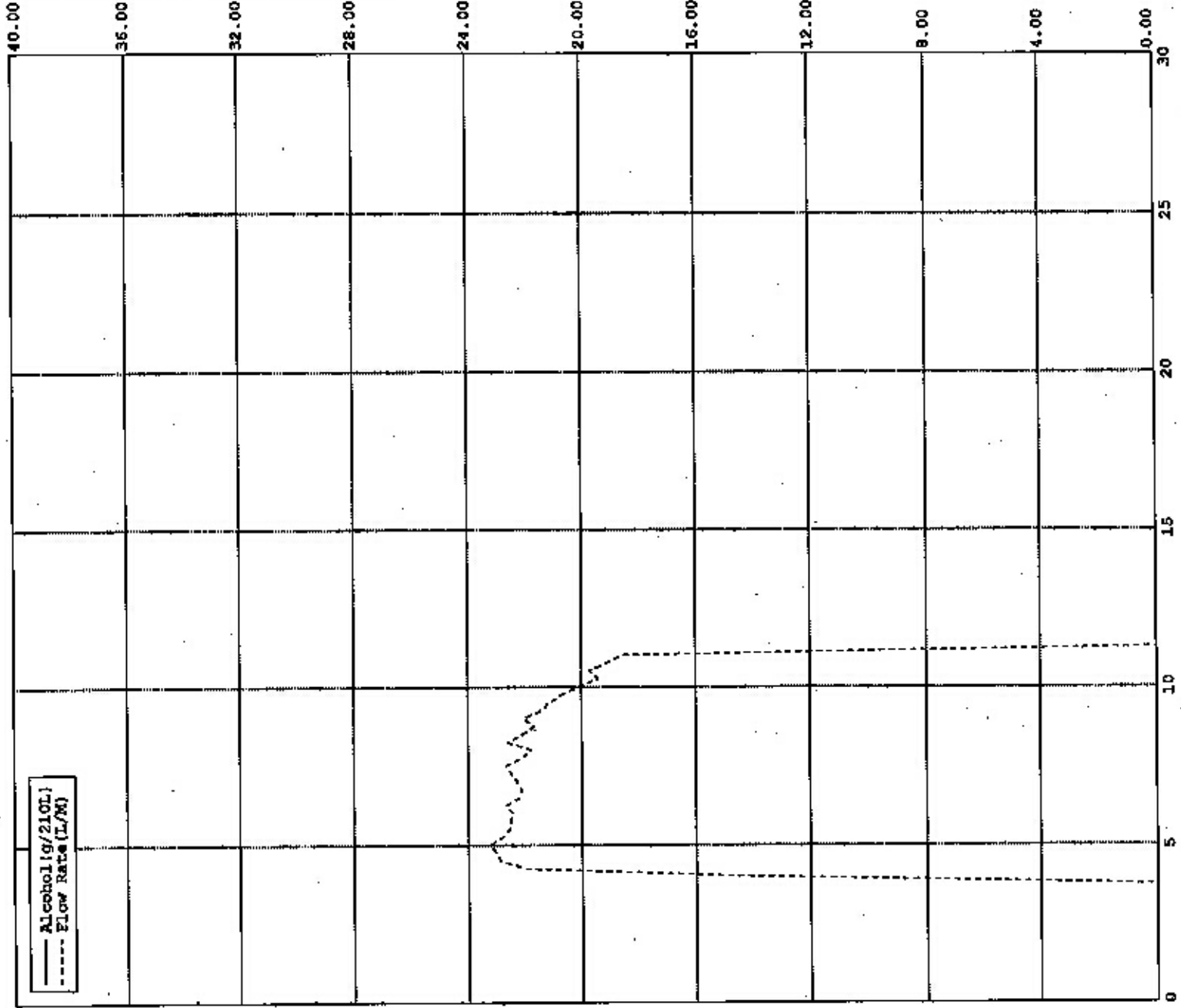
**EXTERNAL STANDARD INFORMATION**

NOMINAL: 0.080  
TARGET AT 29.78: 0.079  
LOT #: 33609080A1  
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK PASSED 14:02  
BLANK TEST 0.000 14:02  
INTERNAL STANDARD VERIFIED 14:02

RFI Detected

*CBF/18*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATA MASTER dmd: 100388

Date: 05/03/2011  
 Time: 14:18:23

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: NON-DRINKING

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

DEPT/AGENCY:  
 AAAI  
 CASE/REPORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.78: 0.079  
 LOT #: 33609080A1  
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:20
SUBJECT SAMPLE	0.000	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.081	14:22
BLANK TEST	0.000	14:23

*CS*

*05/18/11*

Final page for report

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2/19/2014