

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

DataMaster DMT Certification Form

Instrument # 100595

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)

Analyst Colleen O'Bryant
Date 6/6/11

- 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 02511080A2 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 03611100A2 Exp 2/1/13
 - v. 0.200g/210L Mnf ILMO Lot 02811200A3 Exp 2/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 2/1/13
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Repro Lot 9805 Level 0.080 Exp 11/4/11
 1. Simulator Calibration Date 10/15/10 SN DR6267
 - ii. Isopropanol - Mnf Repro Lot 9805 Level 0.080 Exp 11/4/11
 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 dnt: 100395

Date: 06/06/2011
Time: 14:18:52

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.0°C PASSED

PUMP INFO

Flow Rate = 4.828 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

CDB 2/18

Technician Screen

DATAMASTER dnt: 100395

Date: 06/06/2011
Time: 2:26 PM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 47.7°C

Current Barometer 30.1 in
Volume (Ltr) 1.59

Settings

Lamp: 1.80 V
Bias: 79 V
Cooler: 1.67 V
Chopper: 535 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.081 V

005 8/18

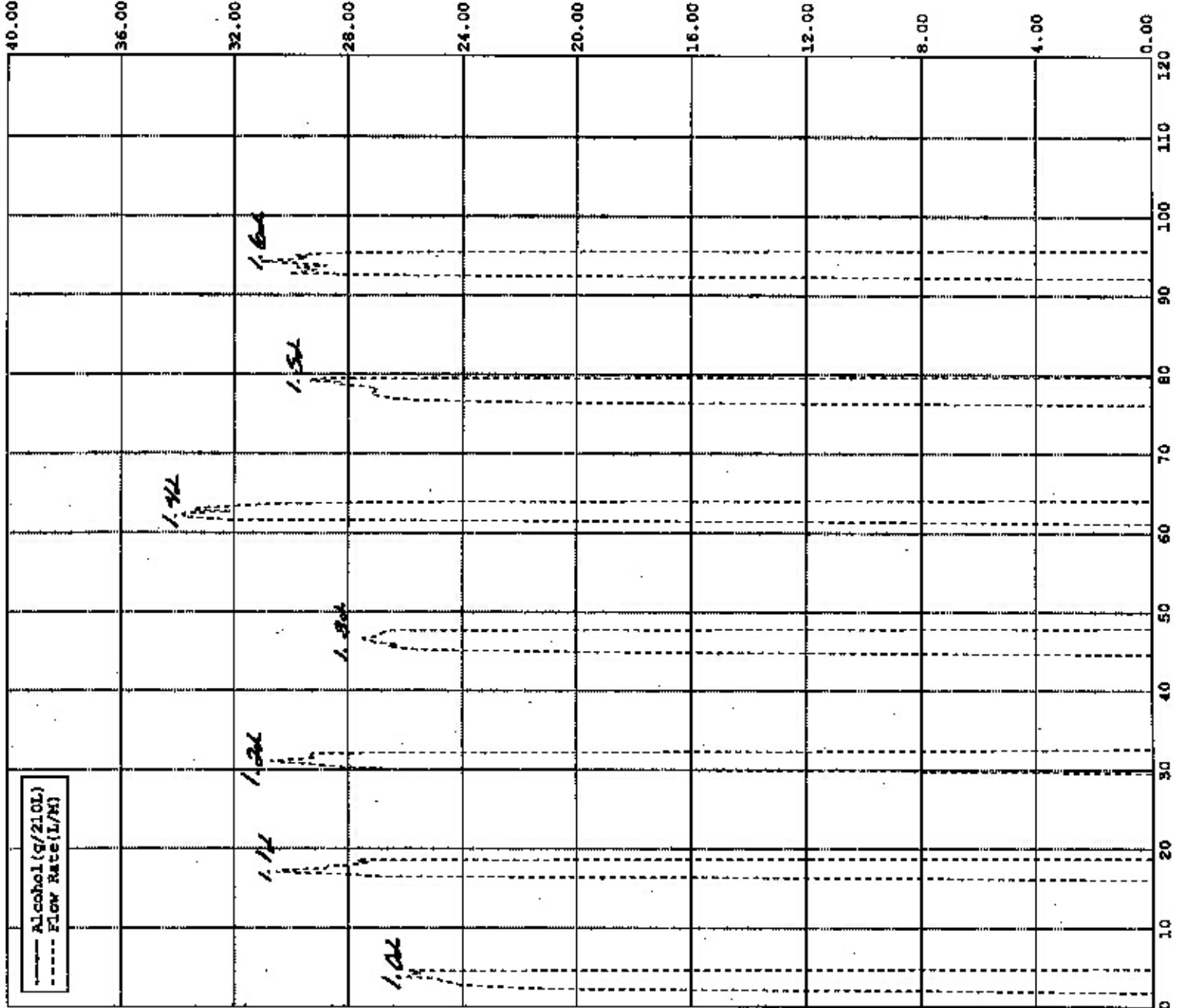
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 04/28/2011
Time: 15:12:14

Ca	=	0.1000			
CAL	=	1.002719	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	=	0.0850	0.0500	<=	Xq < 0.2000
a21	=	1.178293	1.050	<=	a21 < 1.300
a31	=	0.368084	0.300	<=	a31 < 0.800

0084/18



SUBJECT TEST

Alaska Department of Public Safety
 DAWAMSTER dmt: 100395

Date: 06/06/2011
 Time: 14:30:15

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

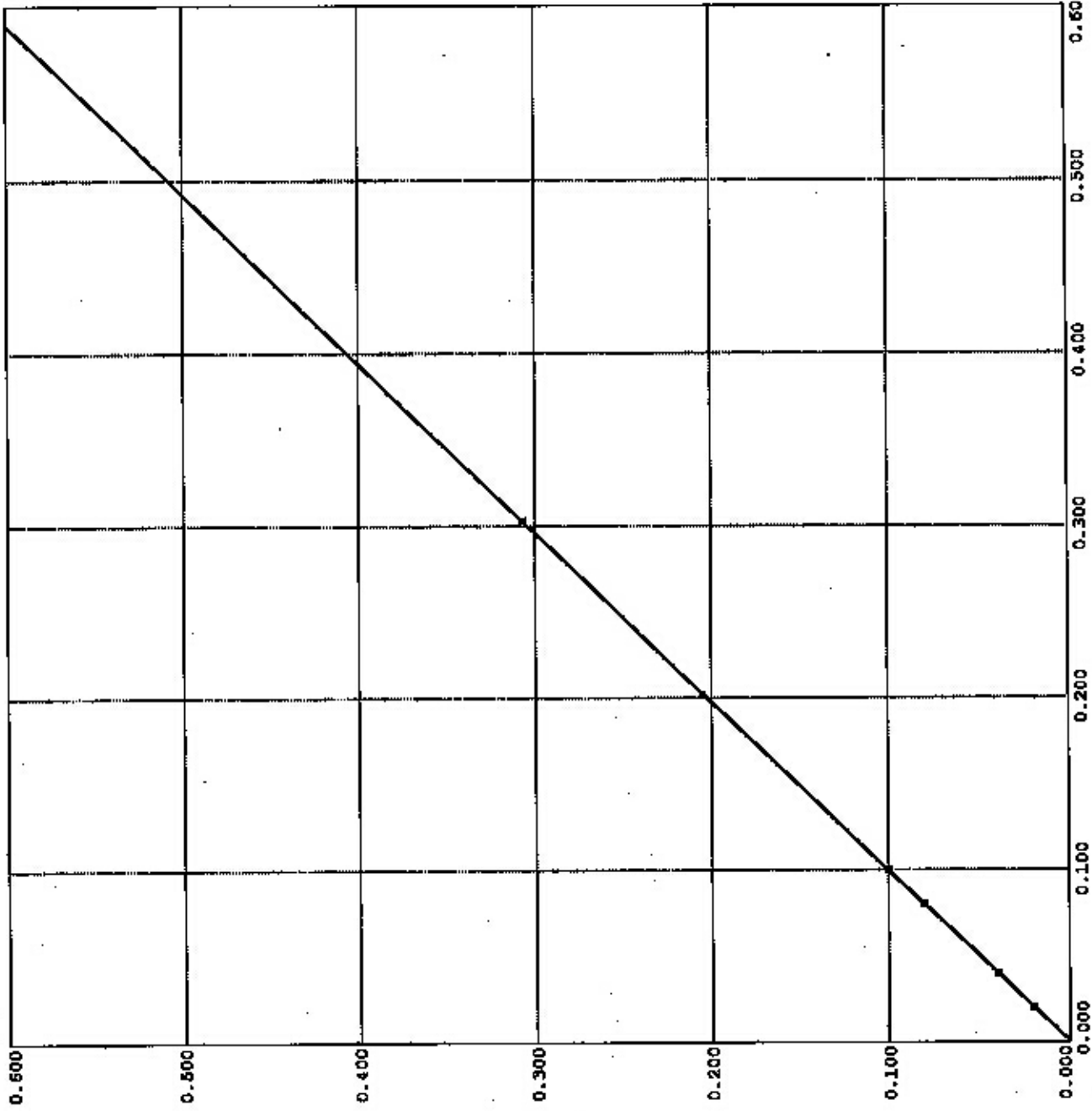
OPERATOR NAME:
 COLLEEN & CERYANI
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAL

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NEUTRAL: 0.080
 TARGET AT 30.15: 0.080
 LOT #: 02S11090A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:31
BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.082	14:31
BLANK TEST	0.000	14:32
SUBJECT SAMPLE	0.000	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.082	14:35
BLANK TEST	0.000	14:36



LINEARITY CHECK

Alaska Department of Public Safety
 DATANUMBER dnn: 100395

Date: 06/06/2011
 Time: 14:39:53

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0005
0.040	0.0404	0.0005
0.080	0.0812	0.0004
0.100	0.1006	0.0005
0.201	0.2058	0.0011
0.302	0.3072	0.0008

SLOPE = 1.019555
 R² = 0.999976

COB
COB 6/18

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

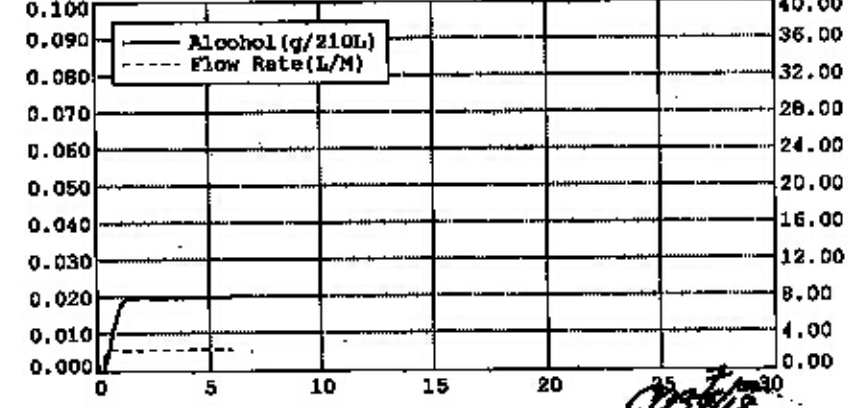
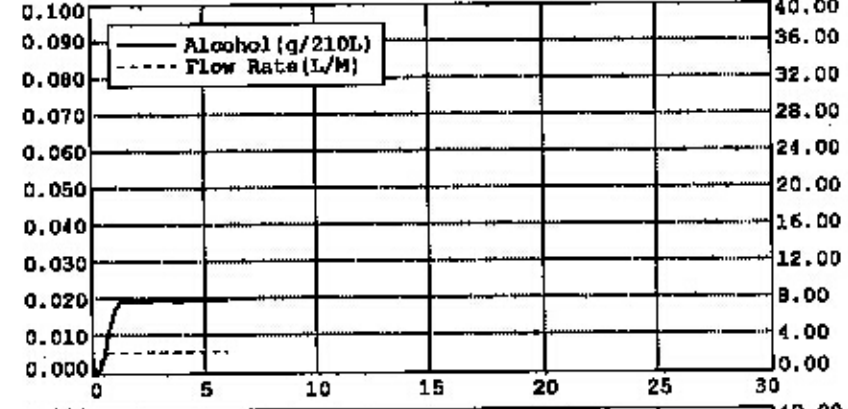
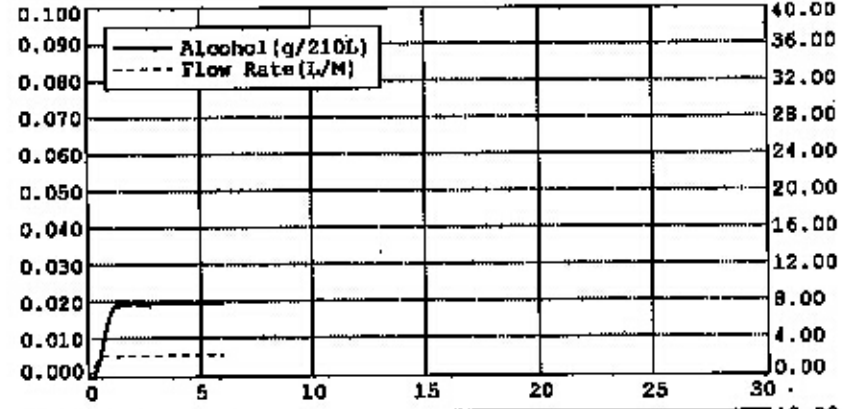
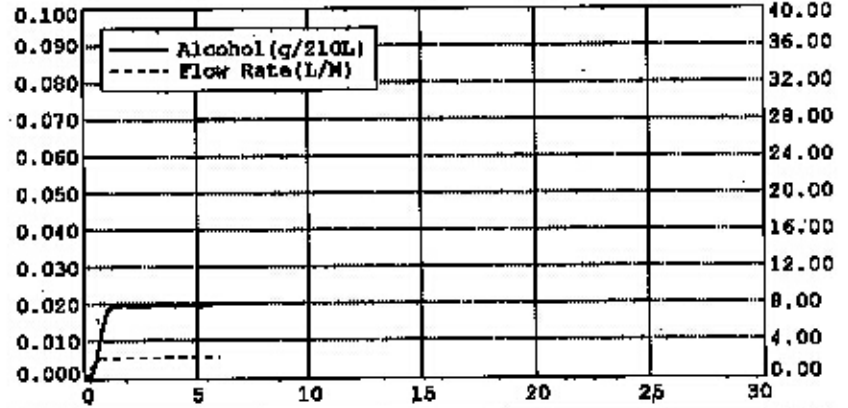
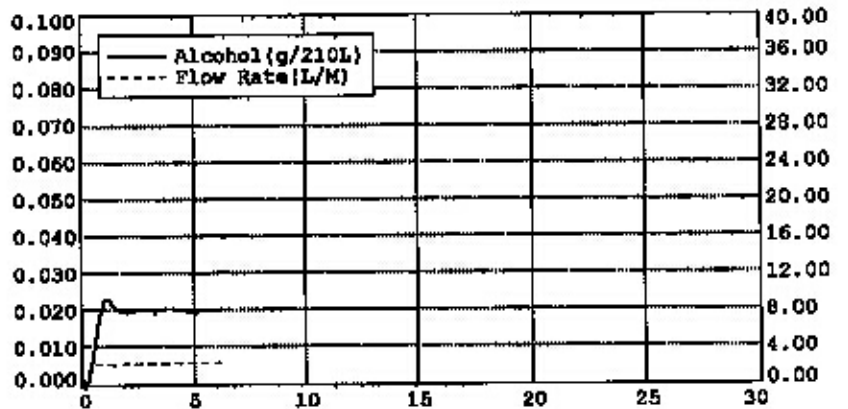
Date: 06/06/2011
 Time: 14:39:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.15: 0.020
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.021	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.020	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.021	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.020	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.021	14:46
BLANK TEST	0.000	14:46

Average = 0.0206
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

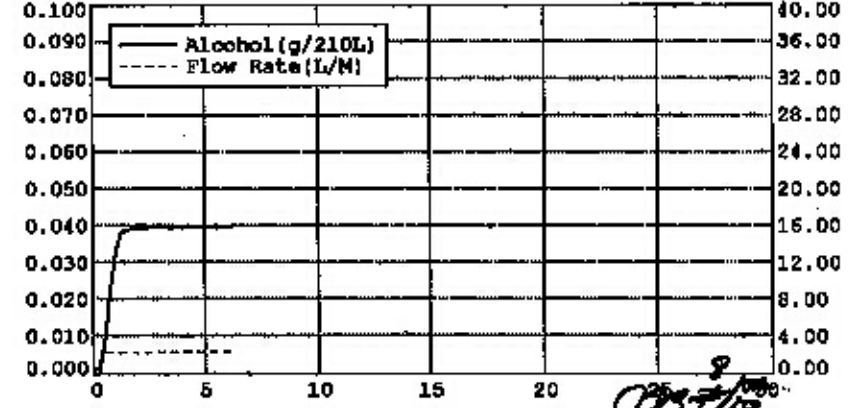
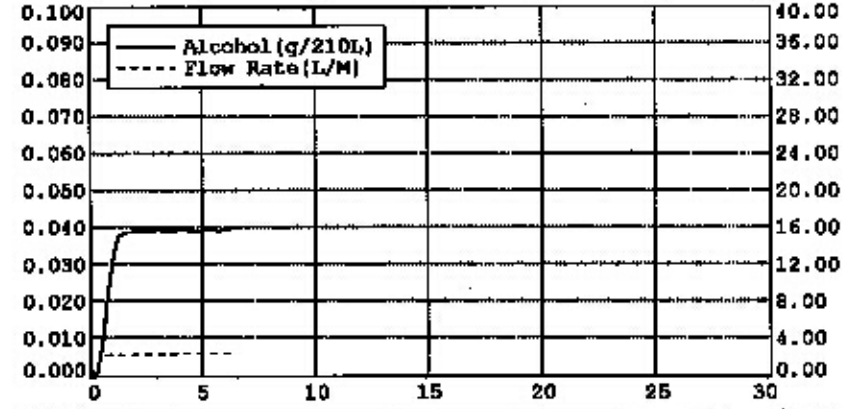
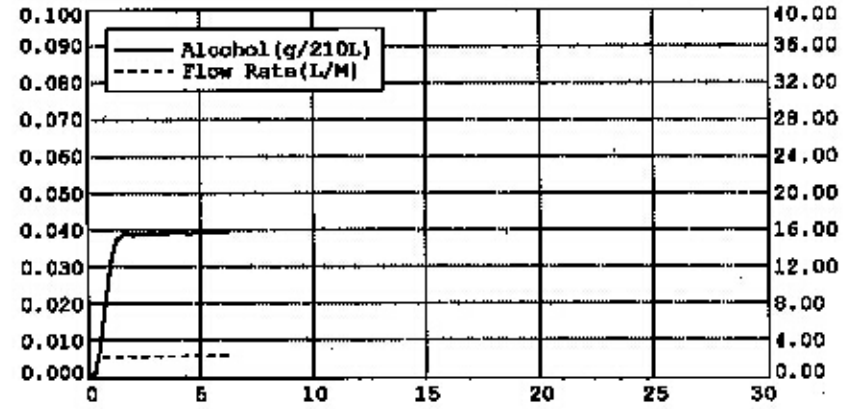
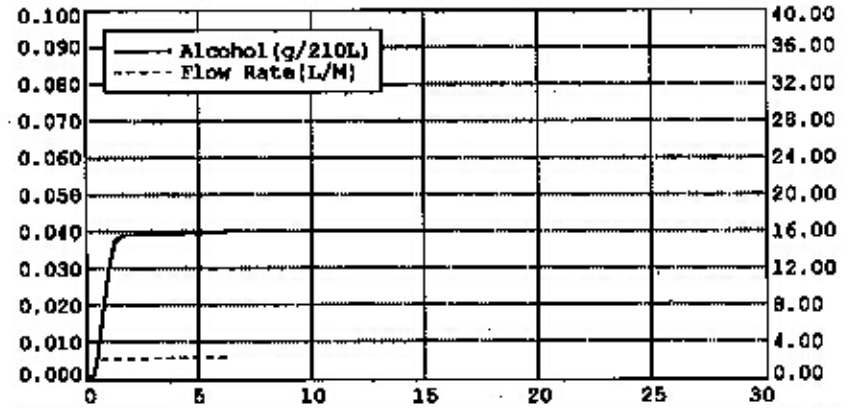
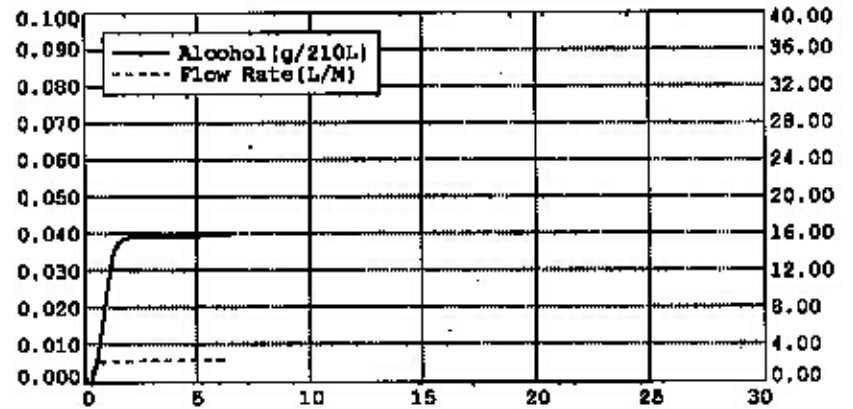
Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/06/2011
 Time: 14:47:56

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 30.15: 0.040
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.041	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.040	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.040	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.040	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.041	14:53
BLANK TEST	0.000	14:54

Average = 0.0404
 Std Dev = 0.0005



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 CDS 7/18

LINEARITY CHECK: Control Test 3

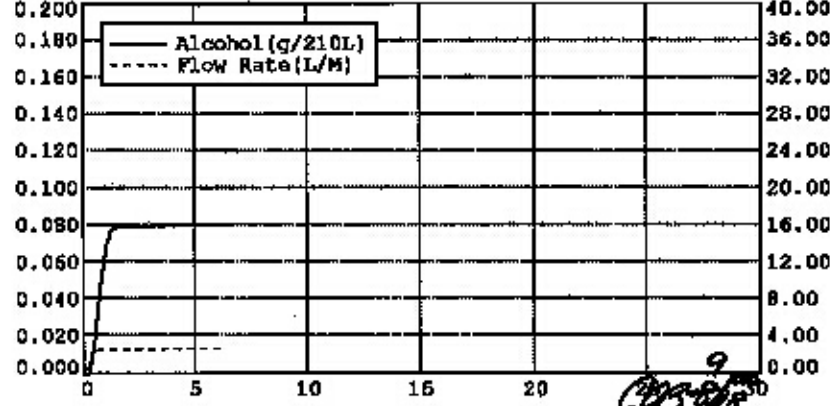
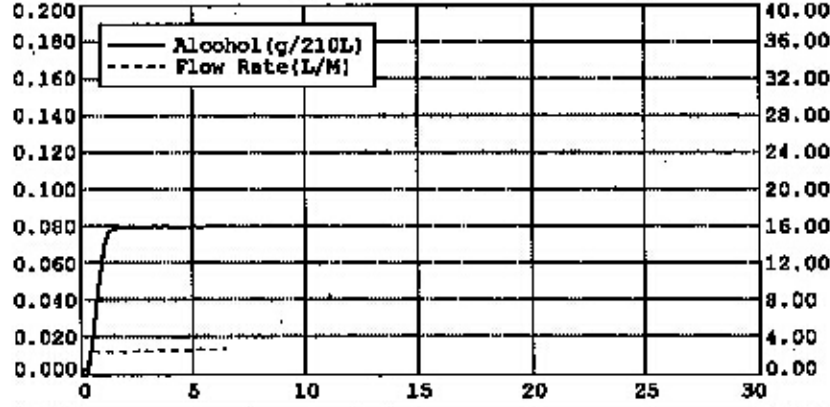
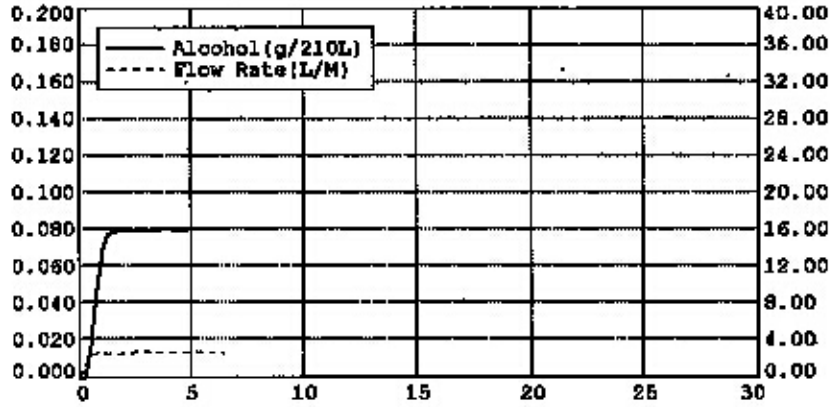
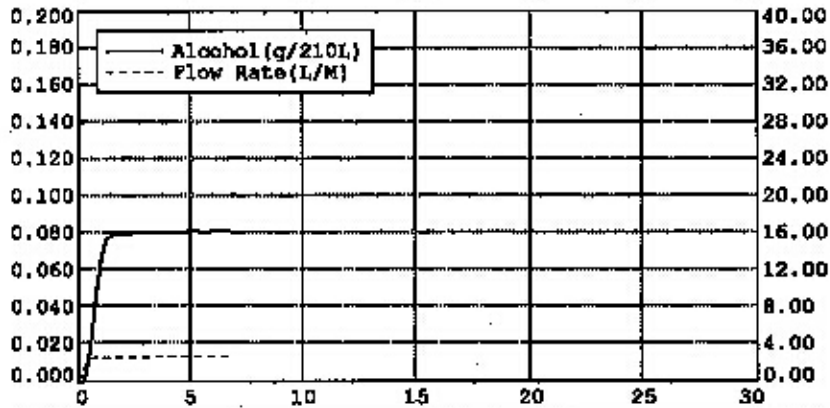
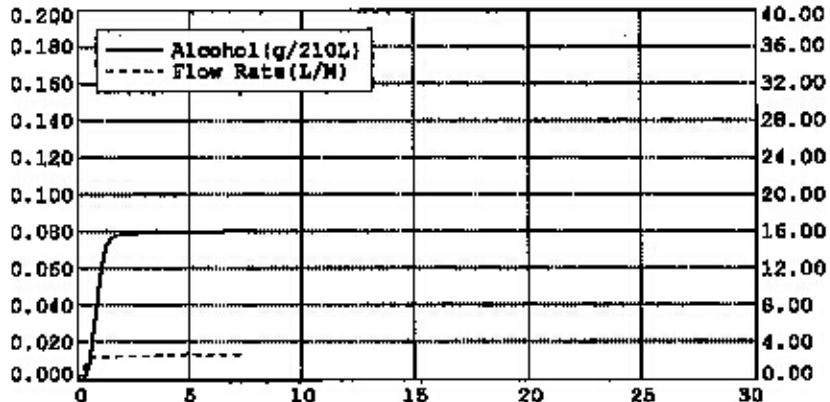
Alaska Department of Public Safety
 DATAMASTER dnt: 100395

Date: 06/06/2011
 Time: 14:55:48

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.15: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.081	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.082	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.081	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.081	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.081	15:01
BLANK TEST	0.000	15:02

Average = 0.0812
 Std Dev = 0.0004



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 2009/06

LINEARITY CHECK: Control Test 4

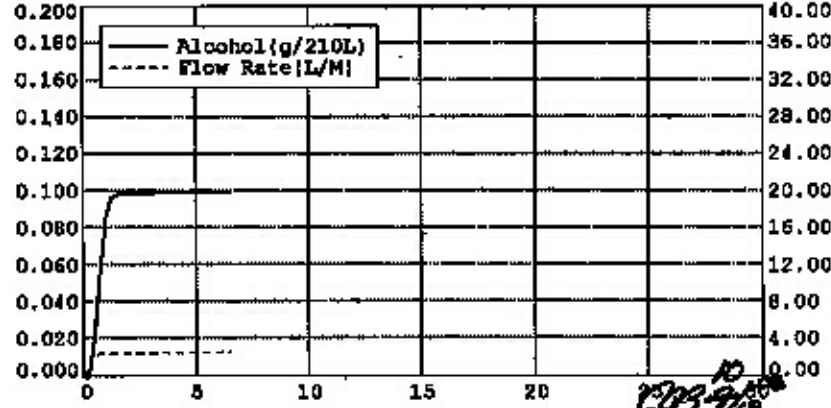
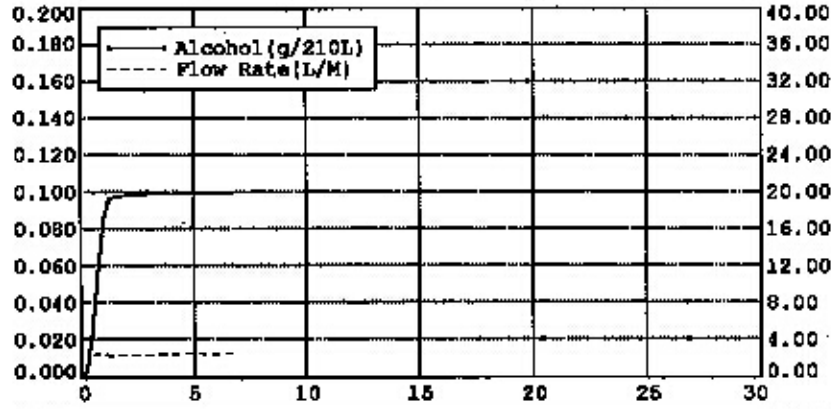
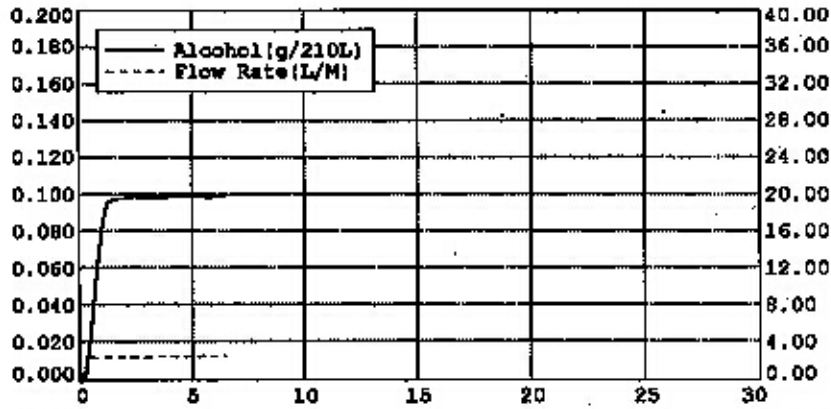
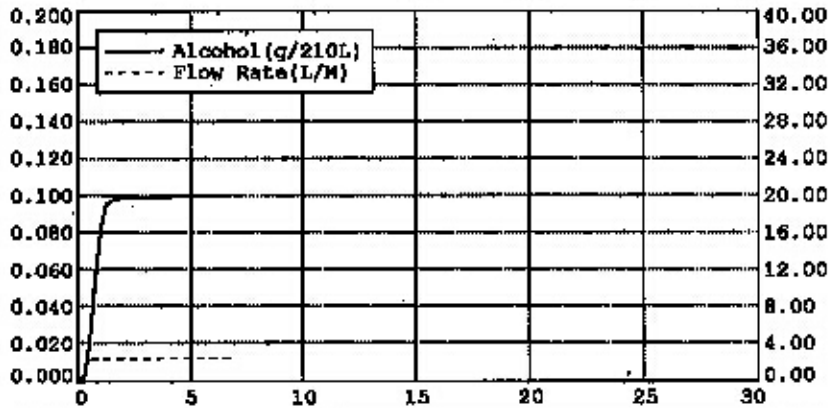
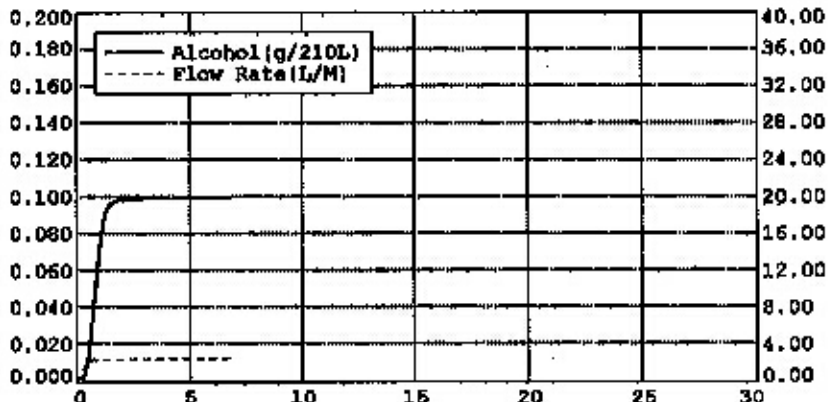
Alaska Department of Public Safety
 DATAMASTER dnt; 100395

Date: 06/06/2011
 Time: 15:03:41

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 30.14: 0.100
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
EXTERNAL STANDARD	0.100	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.101	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.100	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.101	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.101	15:09
BLANK TEST	0.000	15:10

Average = 0.1006
 Std Dev = 0.0005



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 003-9/18

LINEARITY CHECK: Control Test 5

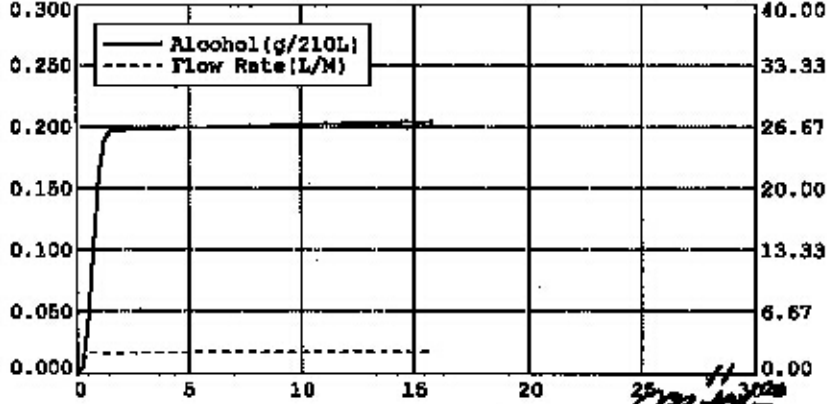
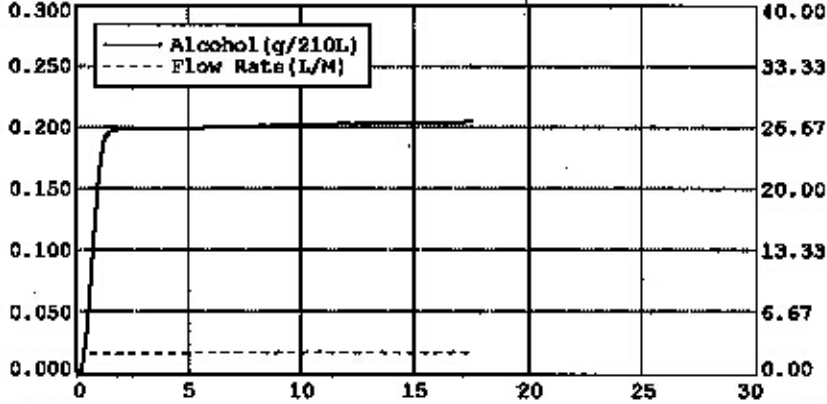
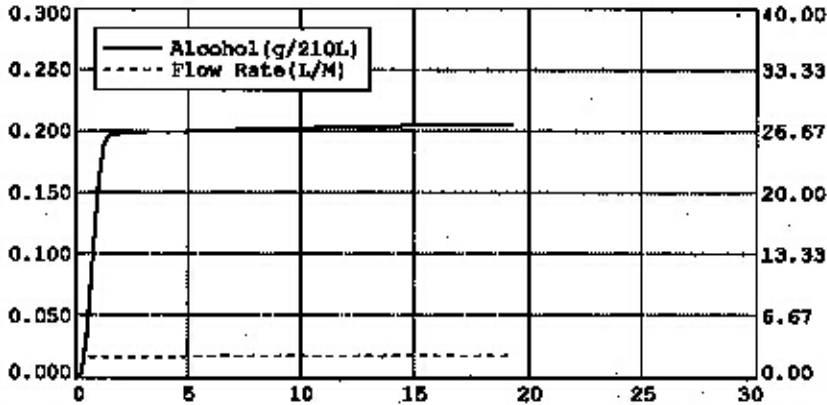
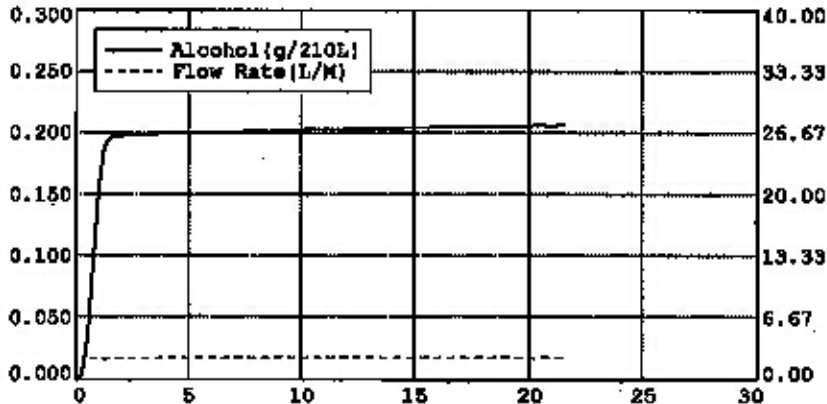
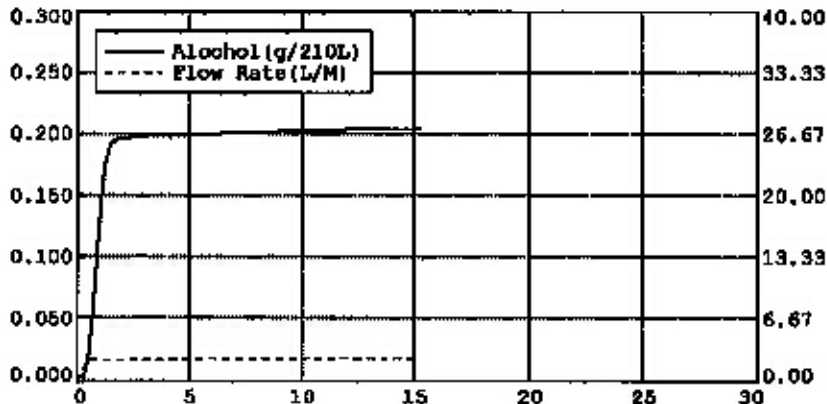
Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/05/2011
 Time: 15:11:31

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 TARGET AT 30.14: 0.201
 LOT #: 02811200A3
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.205	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.207	15:14
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.207	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.205	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.205	15:19
BLANK TEST	0.000	15:21

Average = 0.2058
 Std Dev = 0.0011



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 2103-101/R

LINEARITY CHECK: Control Test 6

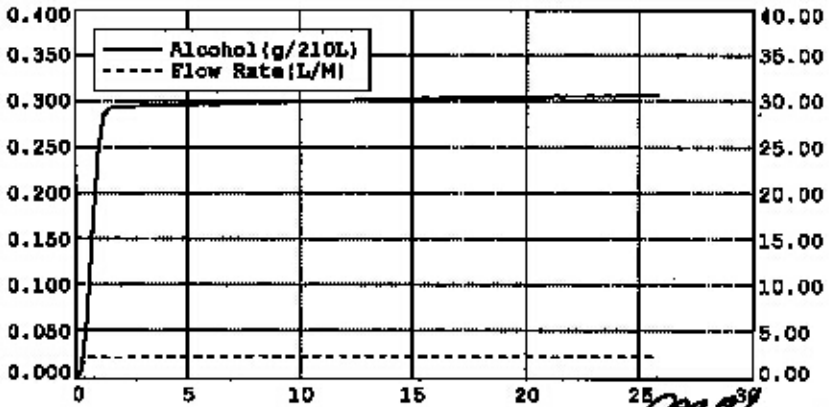
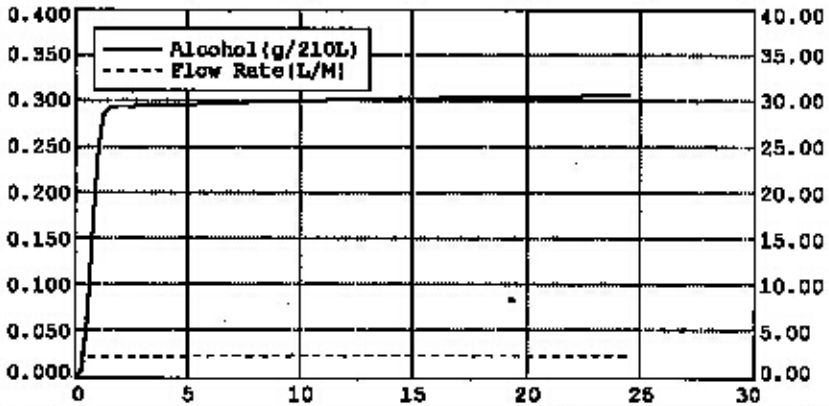
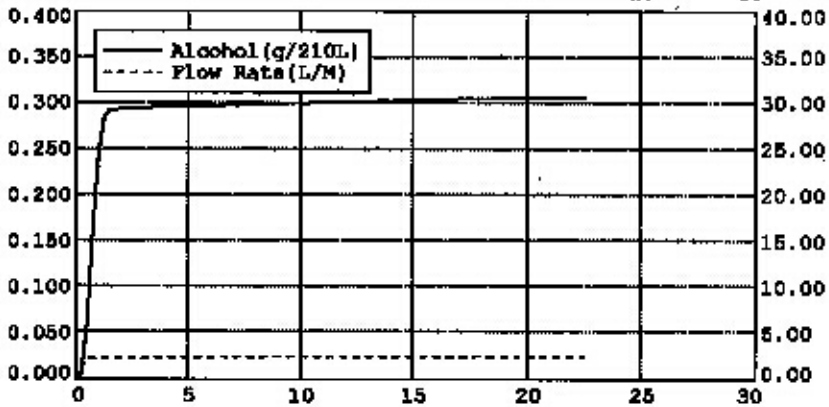
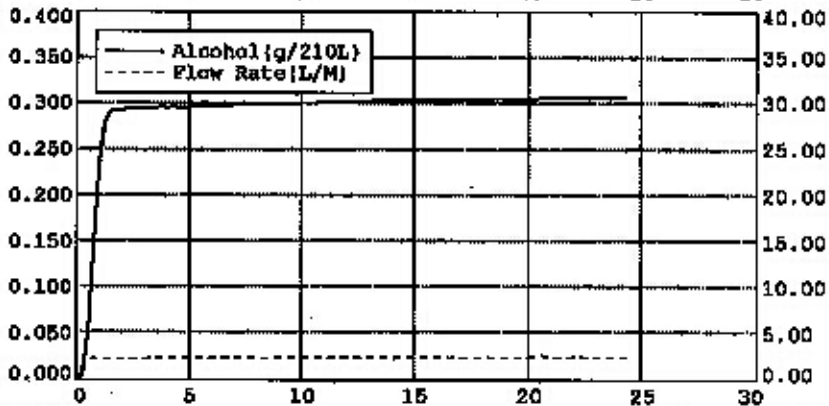
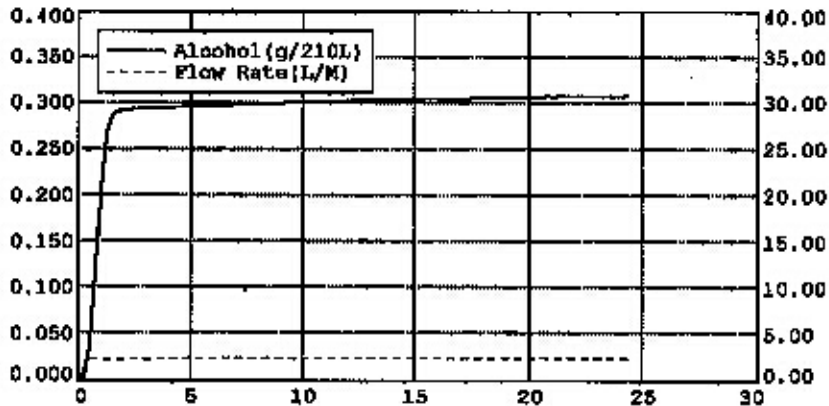
Alaska Department of Public Safety
 DATAMASTER dnt: 100395

Date: 06/06/2011
 Time: 15:21:58

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 TARGET AT 30.14: 0.302
 LOT #: 07411300A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:23
INTERNAL STANDARD	VERIFIED	15:23
EXTERNAL STANDARD	0.308	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.308	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.306	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.307	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.307	15:30
BLANK TEST	0.000	15:32

Average = 0.3072
 Std Dev = 0.0008



COB 6/18

Alcohol (g/210L) Flow Rate (L/M)	0	10	20	30	40	50	60	70	80	90	100	110	120
40.00													
36.00													
32.00													
28.00													
24.00													
20.00													
16.00													
12.00													
8.00													
4.00													
0.00													

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100395

Date: 06/06/2011
 Time: 15:36:20

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

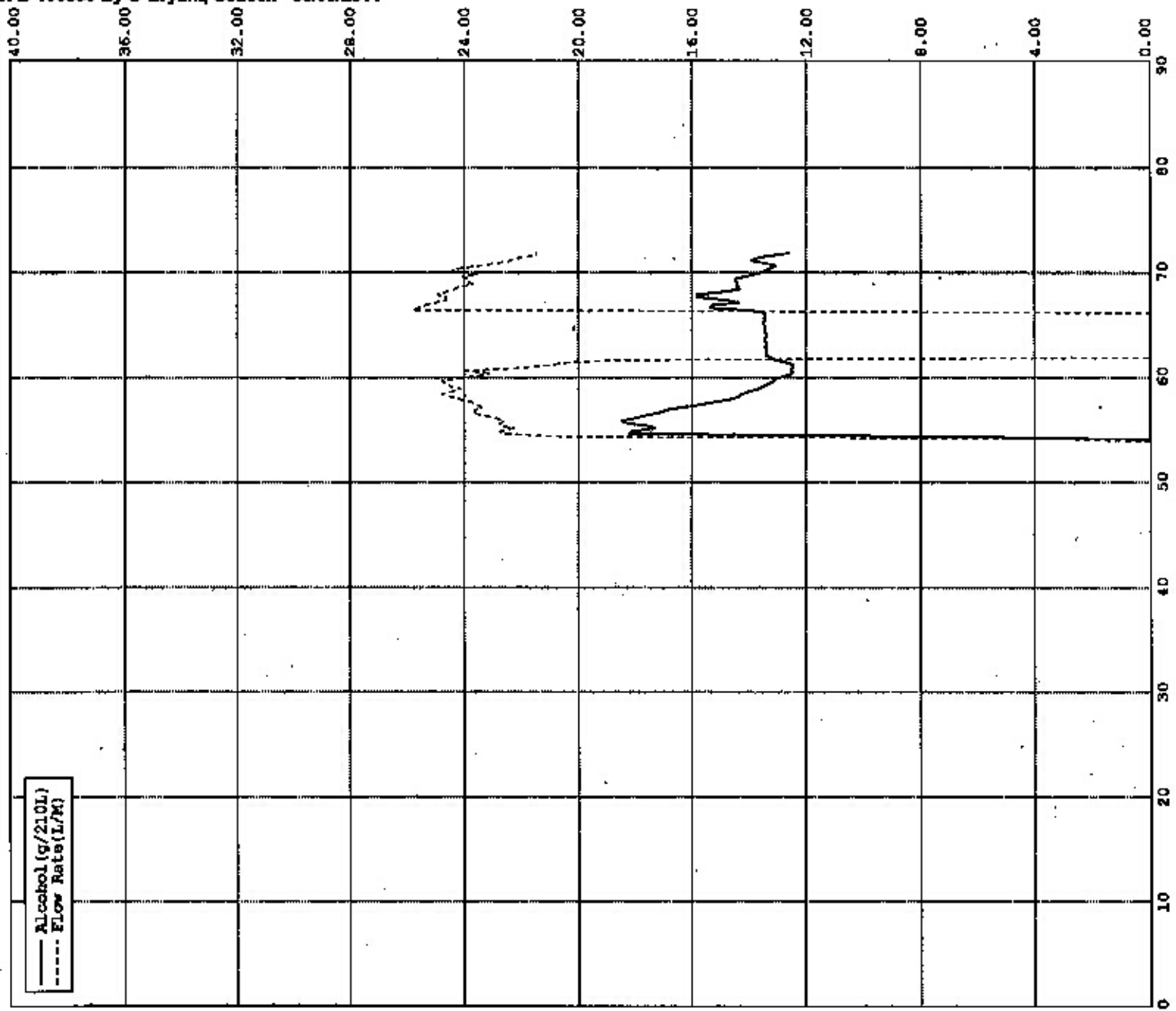
DEPT/AGENCY:
 AAAL

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.12: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 15:38
 BLANK TEST 0.002 15:38
 INTERNAL STANDARD VERIFIED 15:38
 EXTERNAL STANDARD 0.082 15:38
 BLANK TEST 0.000 15:39
 SUBJECT SAMPLE INCOMPLETE 15:41

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 06/09/11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/07/2011
 Time: 08:00:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAAA

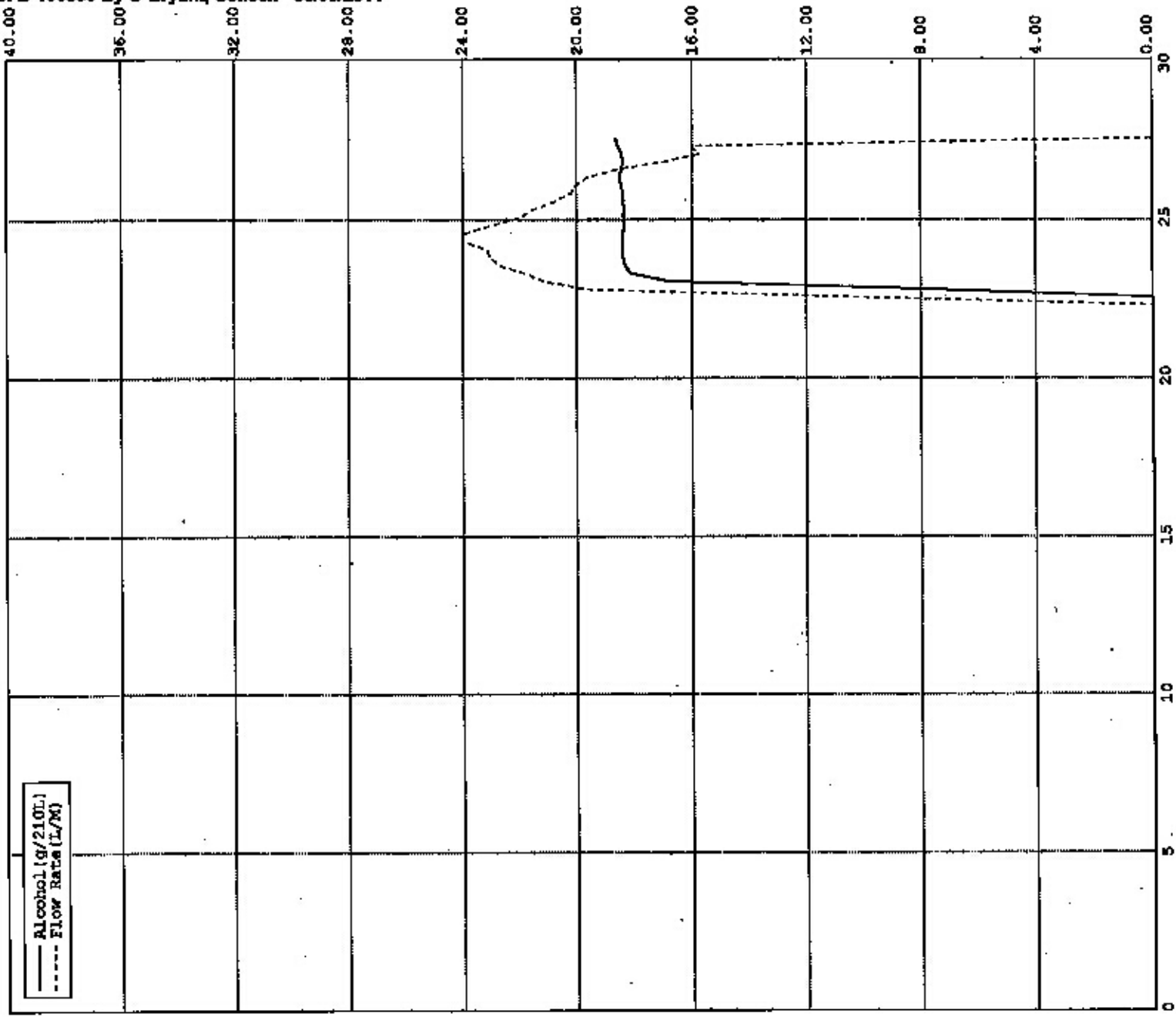
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.01: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 08:01
 BLANK TEST 0.000 08:01
 INTERNAL STANDARD VERIFIED 08:01
 EXTERNAL STANDARD 0.082 08:01
 BLANK TEST 0.000 08:02
 SUBJECT SAMPLE Invalid 08:05

CS

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100395

Date: 06/07/2011
 Time: 08:14:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT ACETONE

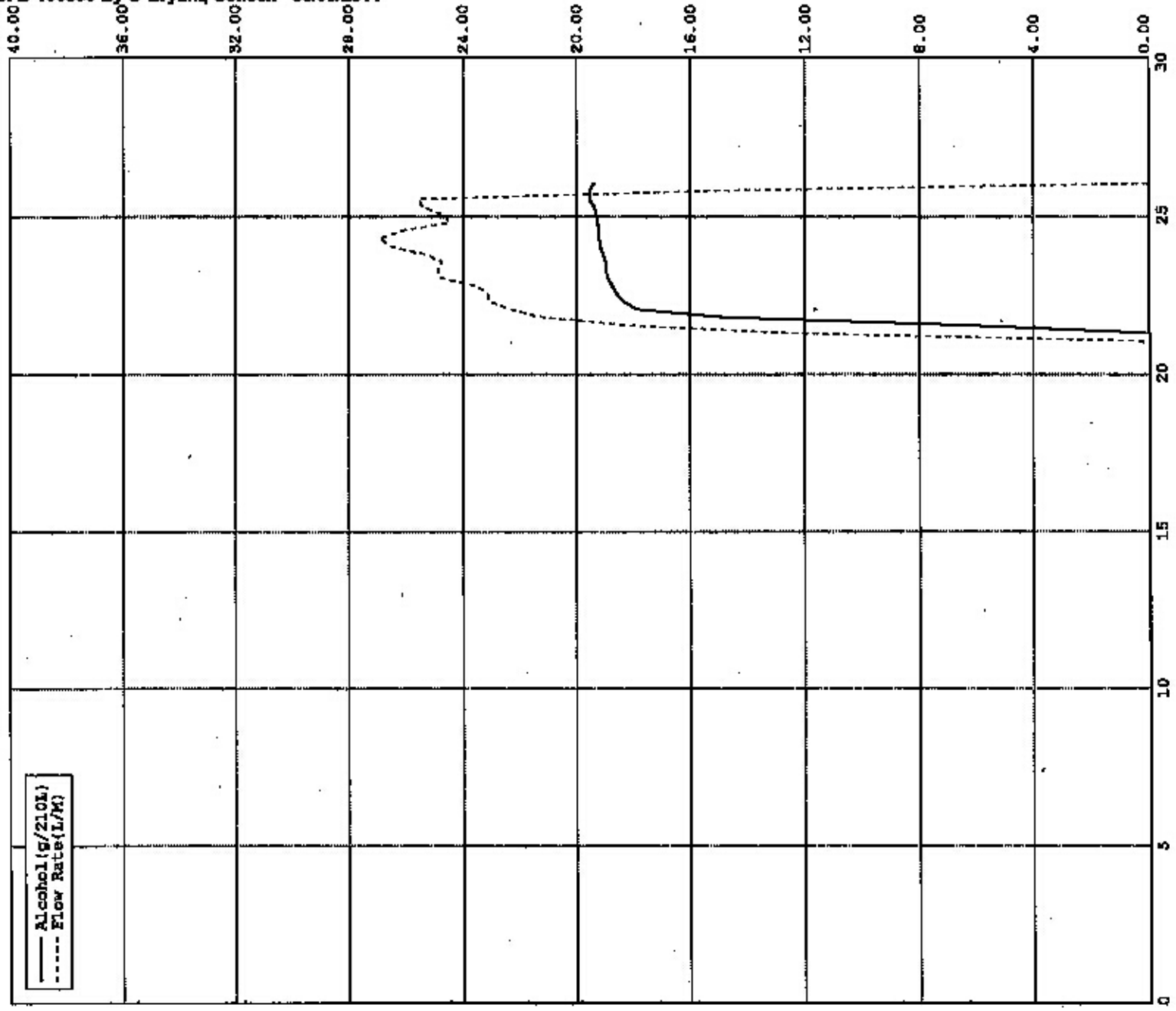
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.01: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:15
BLANK TEST	0.000	08:15
INTERNAL STANDARD	VERIFIED	08:15
EXTERNAL STANDARD	0.081	08:15
BLANK TEST	0.000	08:15
SUBJECT SAMPLE	INTERFERENCE	08:17

COB
COB 15 4/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/07/2011
 Time: 08:08:07

SUBJECT NAME:
 TEST TEST TAT
 LICENSE #: ~~AK00000000~~ ISO

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

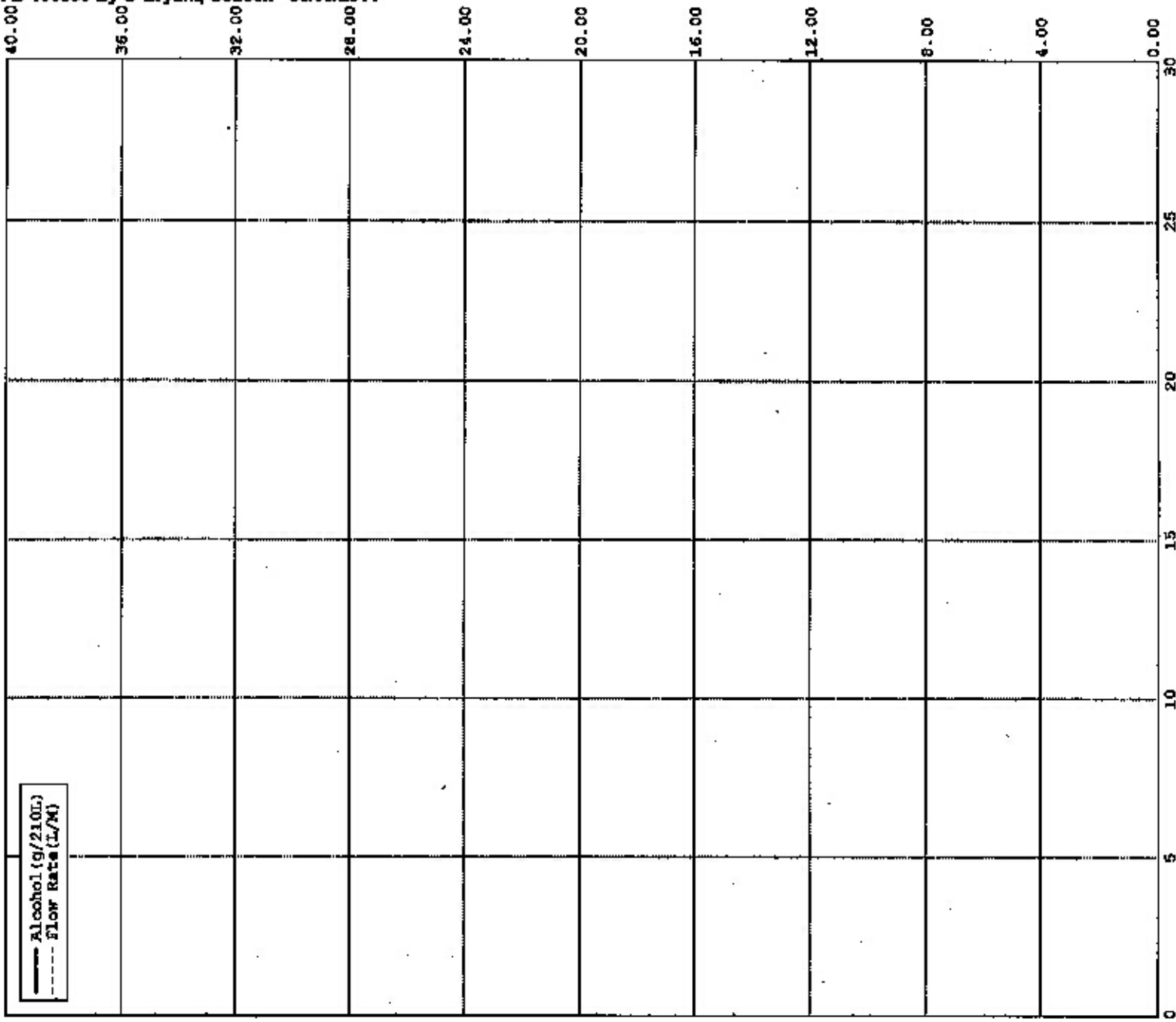
DEPT/AGENCY:
 AAAA

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

FORMINAL: 0.080
 TARGET AT 30.00: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:09
BLANK TEST	0.000	08:09
INTERNAL STANDARD	VERIFIED	08:09
EXTERNAL STANDARD	0.081	08:09
BLANK TEST	0.000	08:10
SUBJECT SAMPLE	INTERFERENCE	08:11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/07/2011
 Time: 07:54:50

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

DEPT/AGENCY:
 AAAA

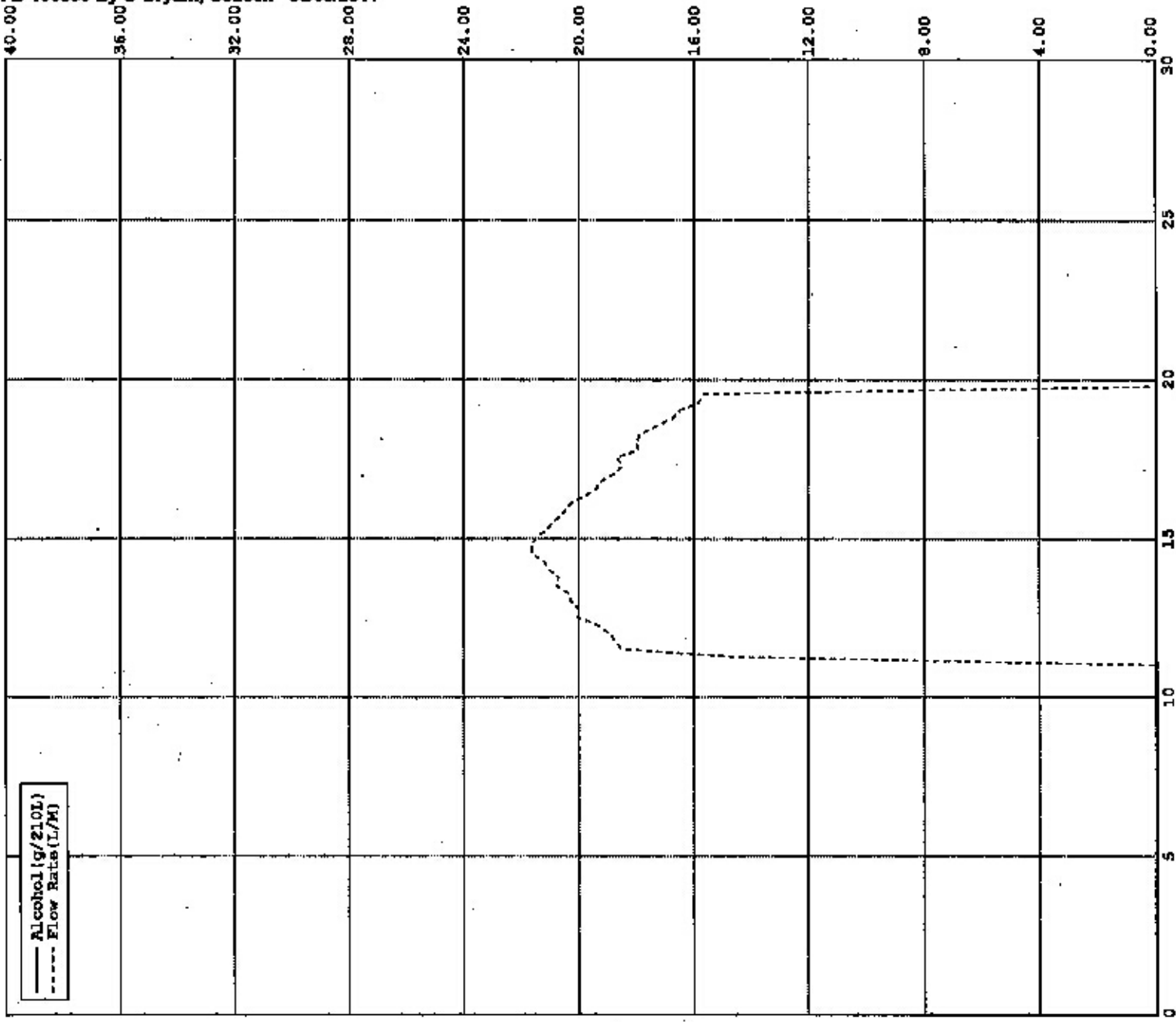
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.00: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 07:55
 BLANK TEST 0.000 07:56
 INTERNAL STANDARD VERIFIED 07:56
 EXTERNAL STANDARD 0.081 07:56
 BLANK TEST 0.000 07:57

RFI Detected

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00516/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 06/07/2011
 Time: 08:29:43

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 AF 30.00: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:31
BLANK TEST	0.000	08:31
INTERNAL STANDARD	VERIFIED	08:31
EXTERNAL STANDARD	0.081	08:31
BLANK TEST	0.000	08:32
SUBJECT SAMPLE	0.000	08:32
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.082	08:34
BLANK TEST	0.000	08:35

COB

COB 18/18

Final page for report

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2/19/2014