

	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 # 100369

1. Diagnostic Test (attached)

Analyst C. O'Bryant

2. Voltage Checks

Date 03/15/11a. 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 1400 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 02811080A3 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 05611300A4 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 10/18/10 SN DR6267ii. Isopropanol - Mnf Guth Lot 9340 Level 0.080 Exp 2/2/111. Simulator Calibration Date 8/4/10 SN SD1202d. 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: 100369

Date: 03/15/2011
Time: 08:02:55

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 46.6°C	PASSED

PUMP INFO	
Flow Rate = 3.883 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
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Technician Screen

DATAMASTER dmt: 100369

Date: 03/15/2011

Time: 3:10 PM

Temperatures (°C)

Sample Cell: 49.1°C

Breath Tube: 45.4°C

Current Barometer 29.2 in

Volume (Ltr) 1.48

Settings

Lamp: 1.96 V

Bias: 79 V

Cooler: 1.66 V

Chopper: 525 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.688 V

CALIBRATION FACTORS

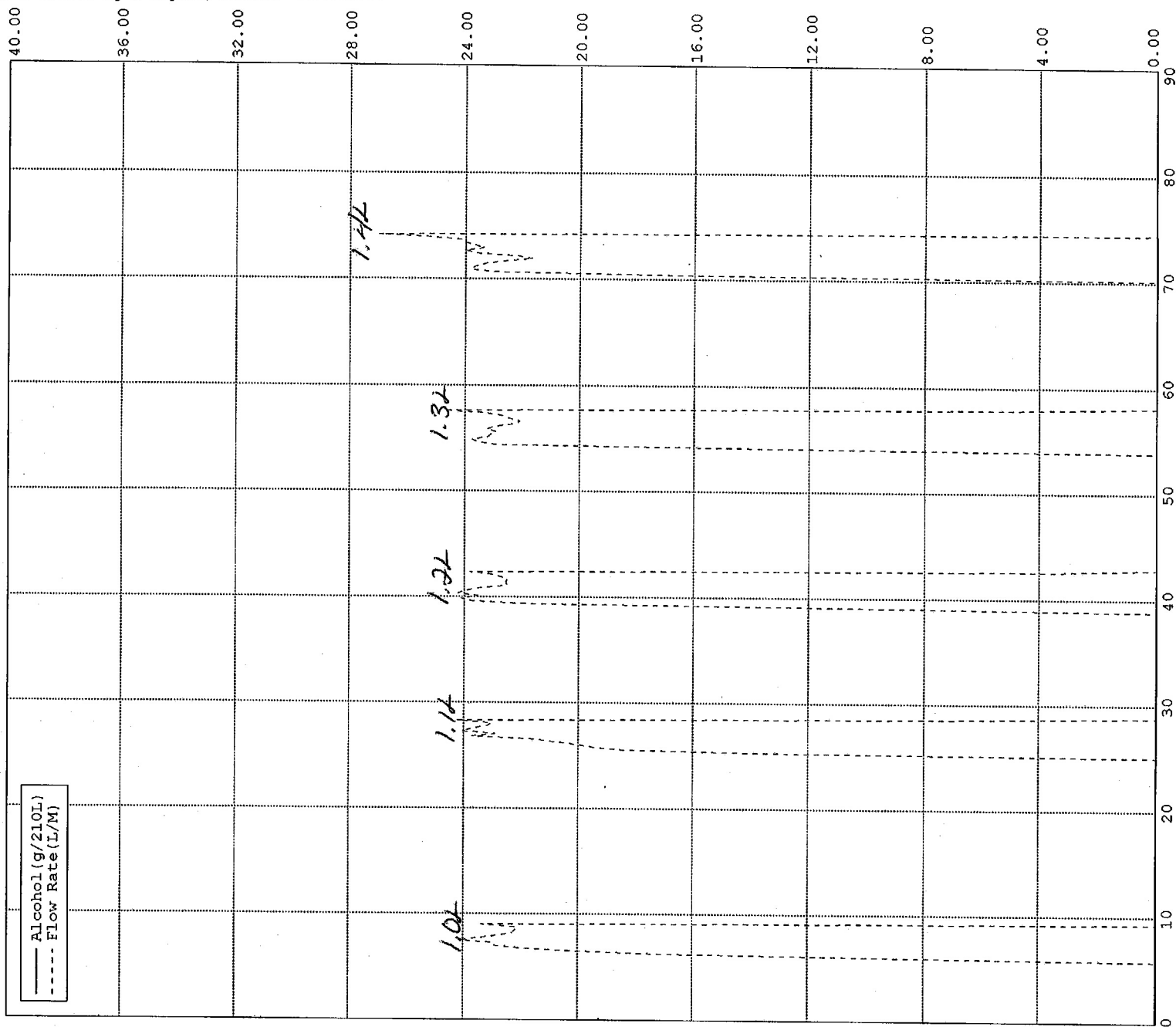
Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/15/2011
Time: 07:04:42

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca	=	0.1000		
CAL	=	0.968280	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0062	0.0010	<= b2 < 0.0100
b3	=	0.0005	0.0000	<= b3 < 0.0040
Xq	=	0.0978	0.0500	<= Xq < 0.2000
a21	=	1.183864	1.050	<= a21 < 1.300
a31	=	0.480732	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100369

Date: 03/15/2011
 Time: 15:12:22

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

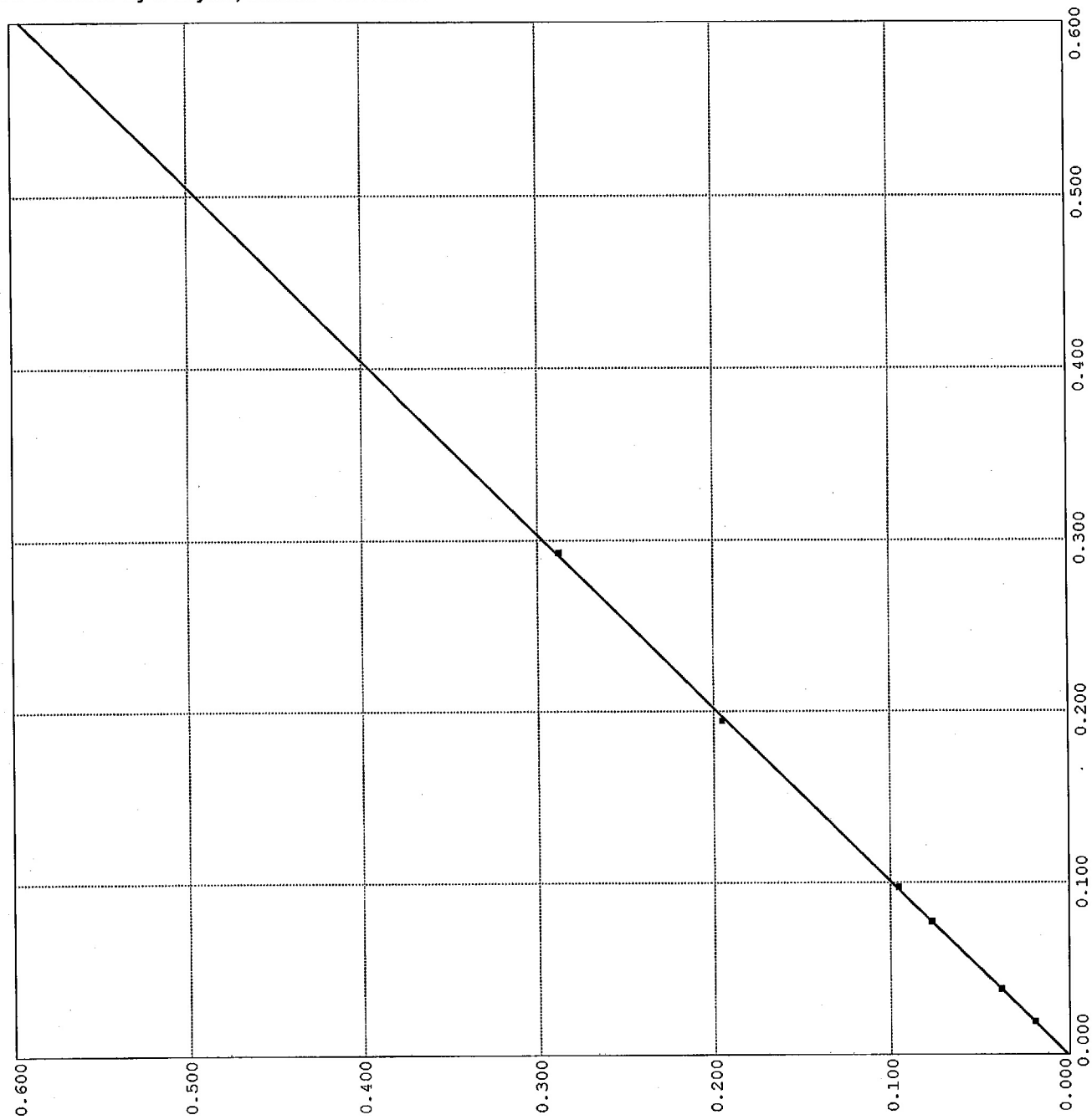
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.16: 0.077
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:15
BLANK TEST	0.000	15:15
INTERNAL STANDARD	VERIFIED	15:15
EXTERNAL STANDARD	0.078	15:16
BLANK TEST	0.000	15:17
SUBJECT SAMPLE	0.000	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.078	15:19
BLANK TEST	0.000	15:20

CAB

CAB 5/18



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 10:12:14

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.038	0.0390	0.0000
0.077	0.0776	0.0005
0.097	0.0962	0.0004
0.194	0.1960	0.0019
0.292	0.2888	0.0018

SLOPE = 0.989101
R² = 0.999899

CB

03/18

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100369

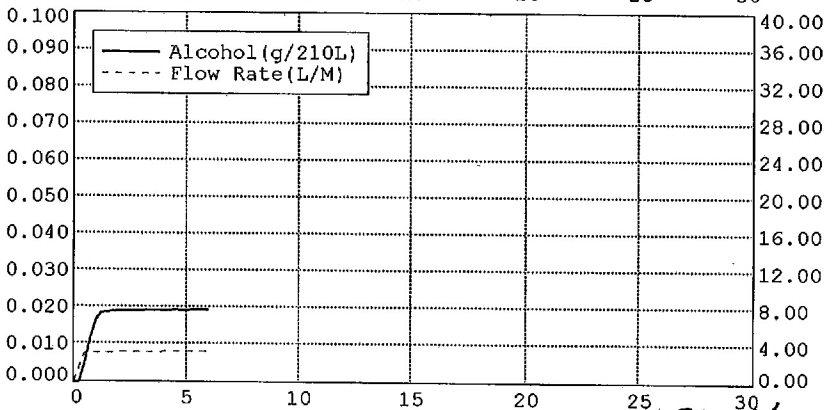
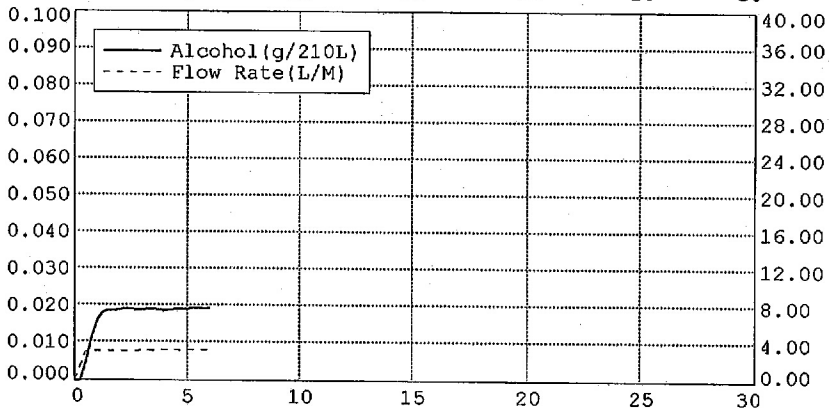
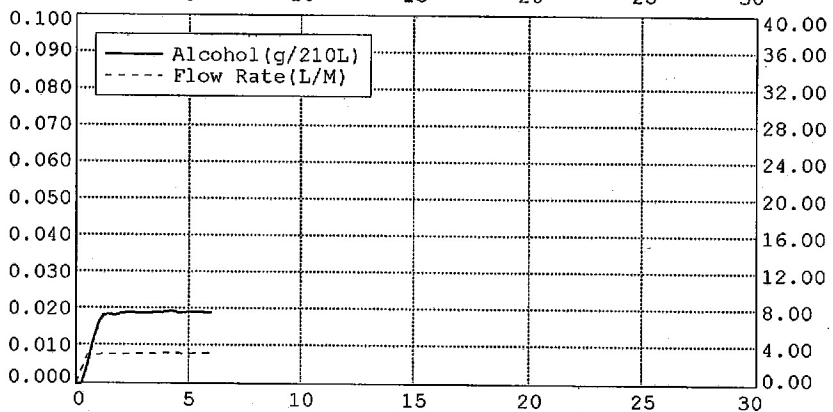
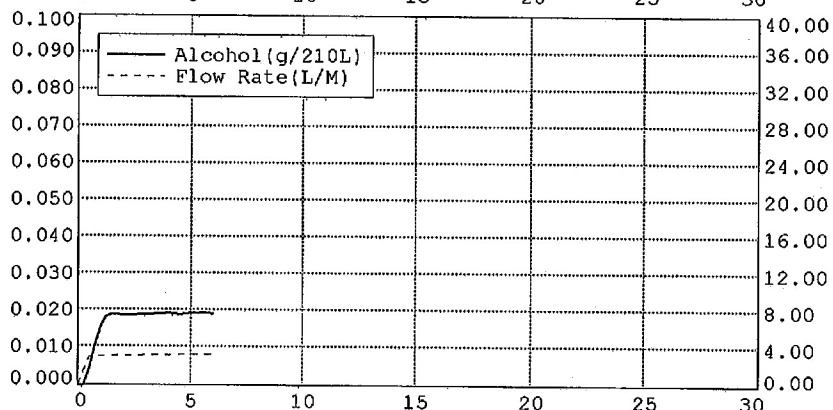
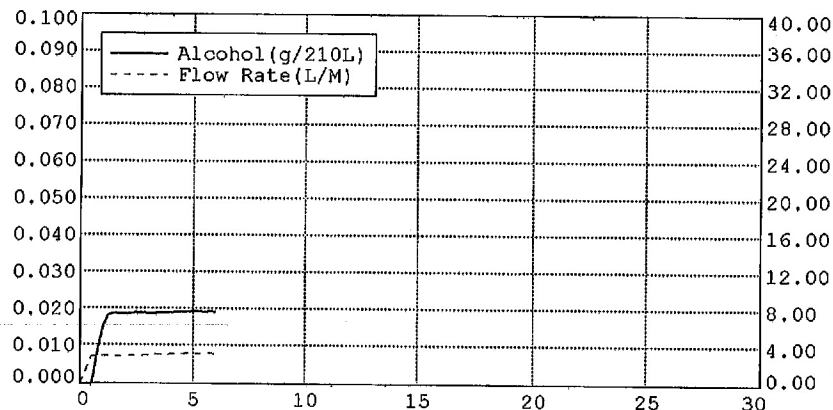
Date: 03/16/2011
Time: 10:12:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.15: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.020	10:18
BLANK TEST	0.000	10:18

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

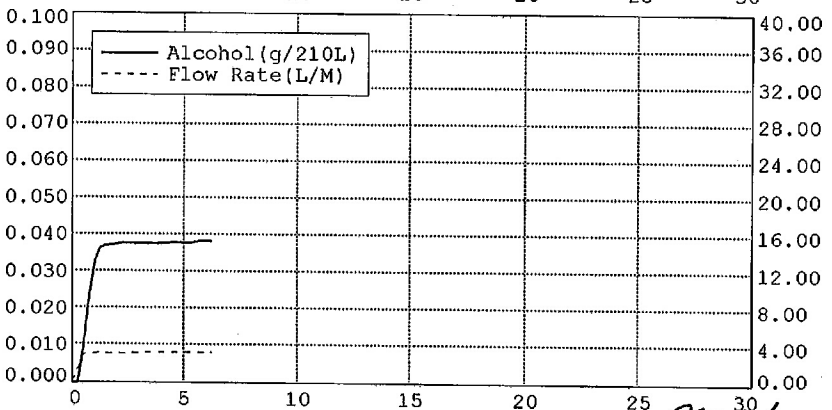
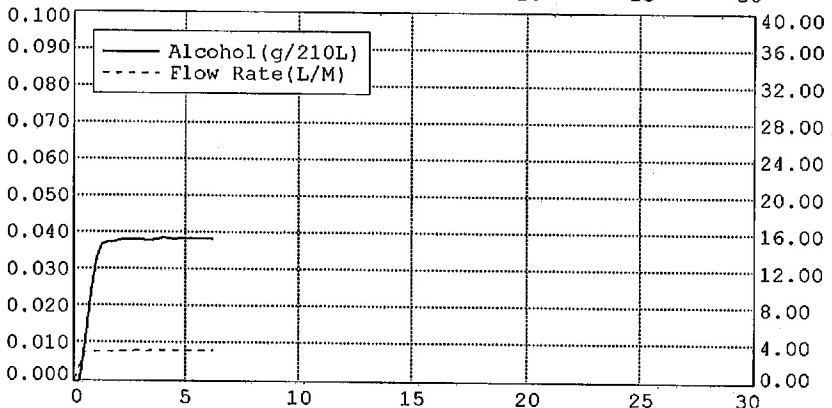
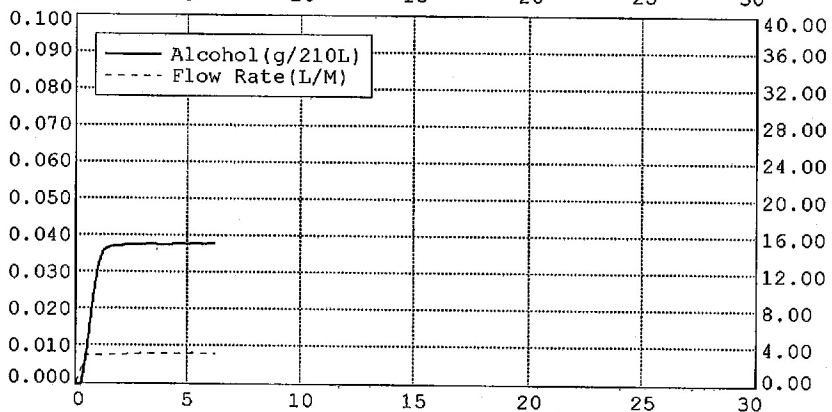
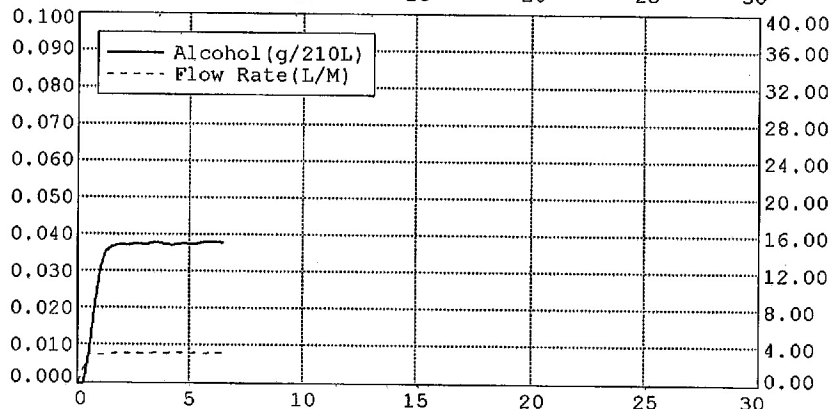
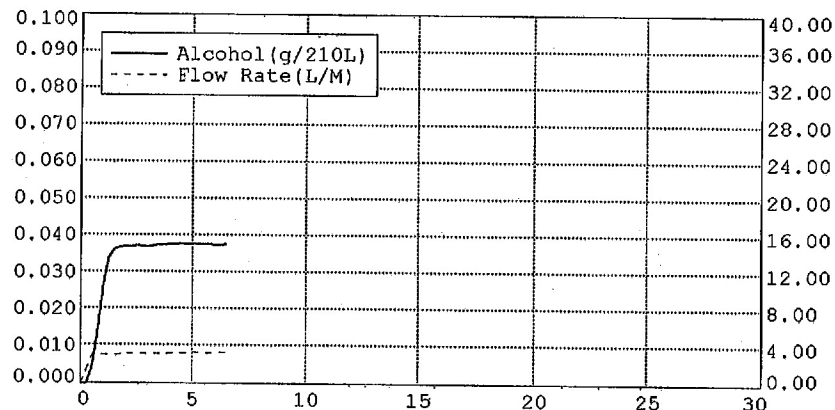
Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 10:21:42

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.15: 0.038
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.039	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.039	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.039	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.039	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.039	10:27
BLANK TEST	0.000	10:28

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt; 100369

Date: 03/16/2011
Time: 10:30:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

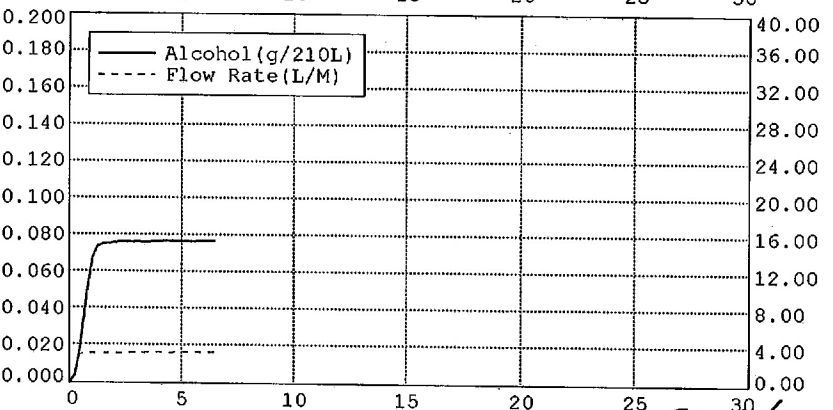
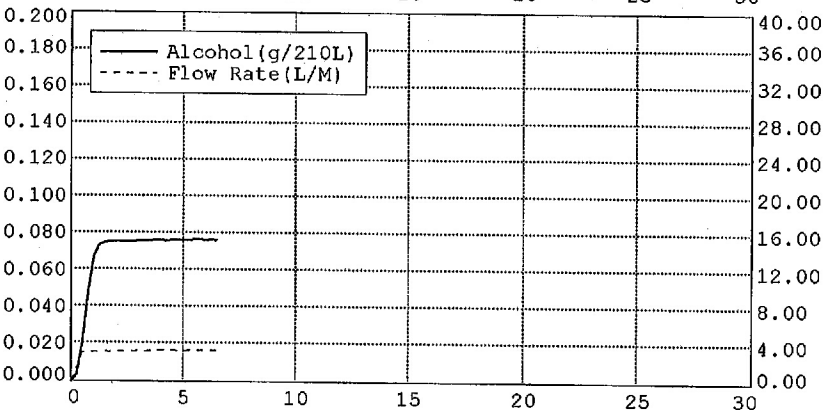
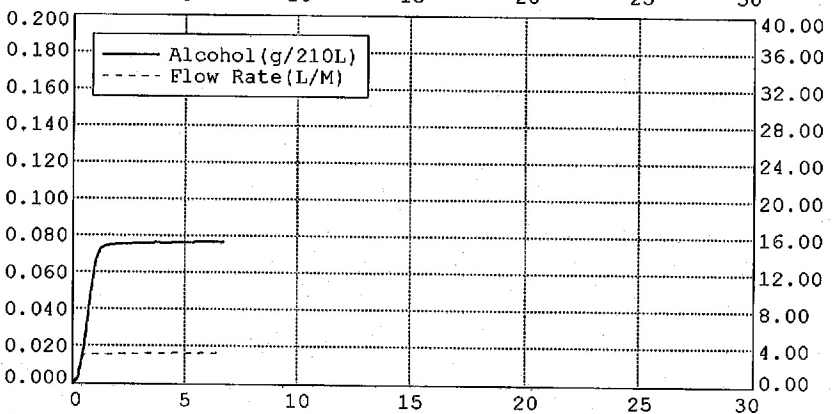
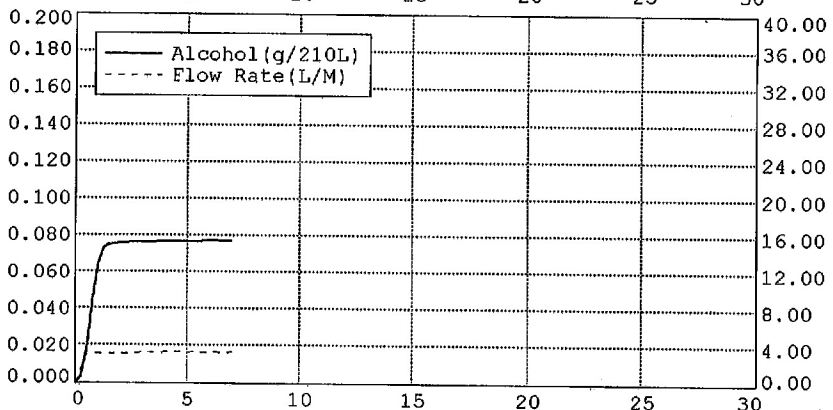
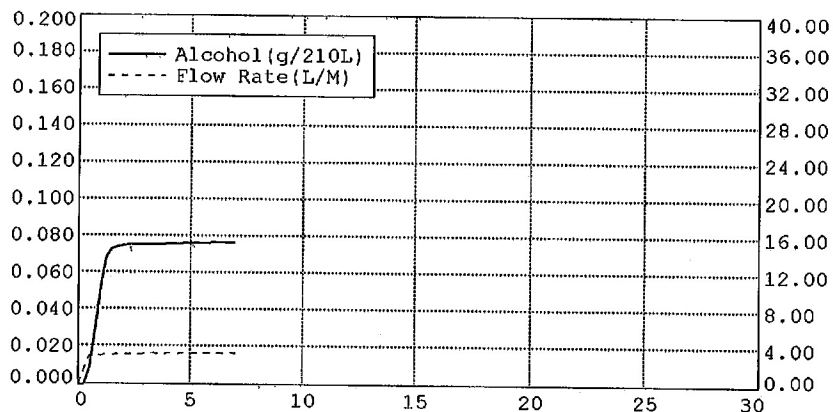
TARGET AT 29.15: 0.077

LOT #: ~~028111080A3~~ 02811080A3EXPIRATION: 02/01/2013 *COB 3/17/11*

BLANK TEST	0.000	10:32
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.078	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.078	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.078	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.077	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.077	10:37
BLANK TEST	0.000	10:37

Average = 0.0776

Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 10:39:57

EXTERNAL STANDARD INFORMATION

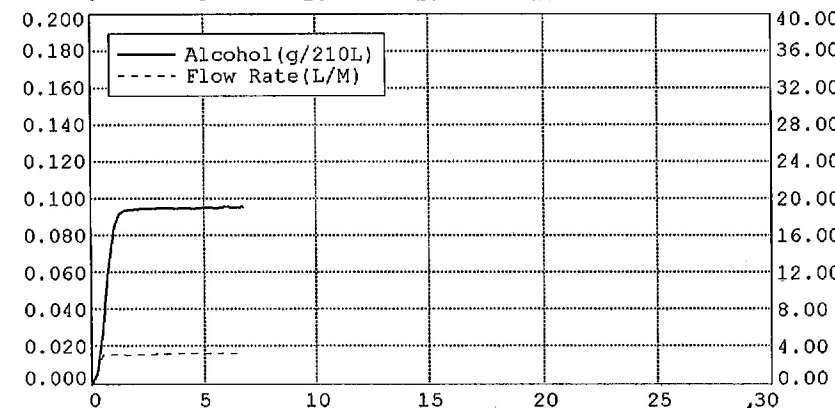
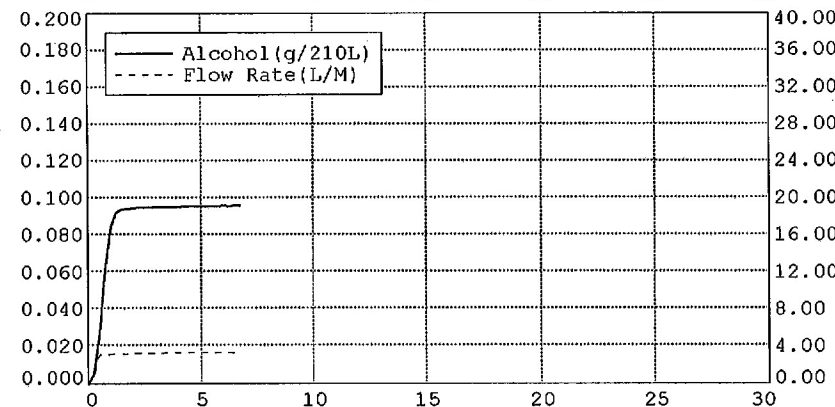
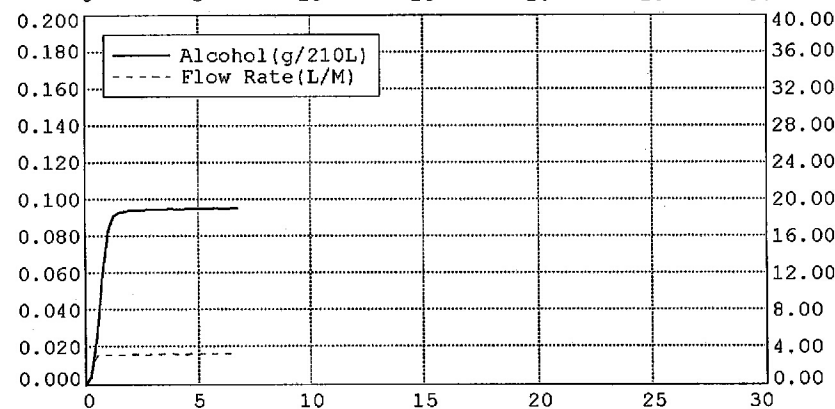
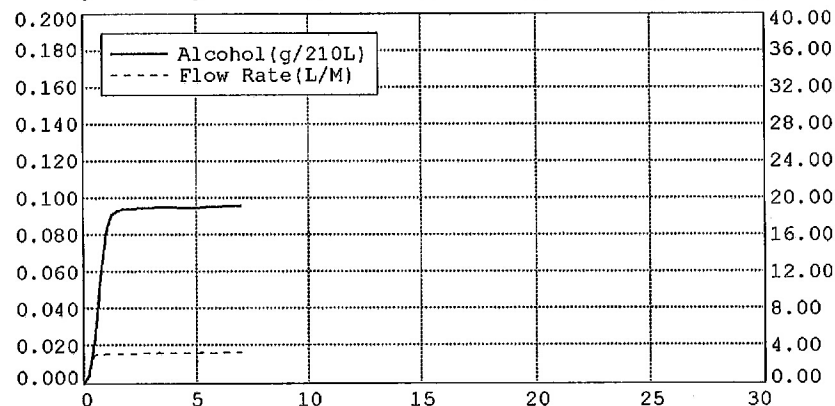
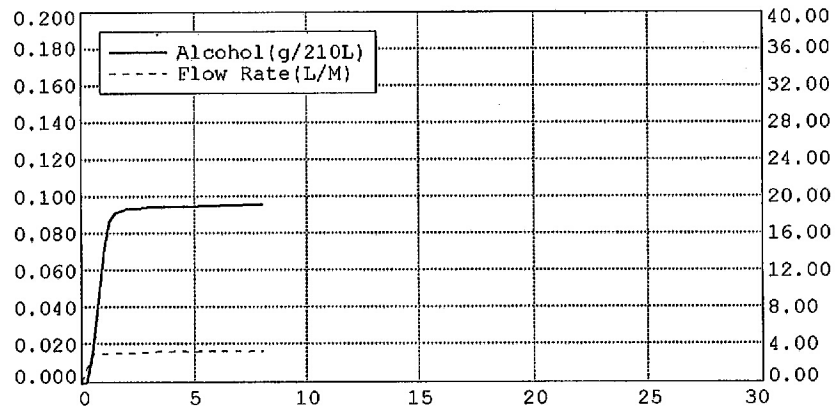
NOMINAL: 0.100

TARGET AT 29.16: 0.097

LOT #: ~~056111100A2~~ 05611100A2
EXPIRATION: 03/01/2013 *COB 3/17/11*

BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.097	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.096	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.096	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.096	10:47
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.096	10:48
BLANK TEST	0.000	10:49

Average = 0.0962
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 11:02:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

TARGET AT 29.16: 0.194

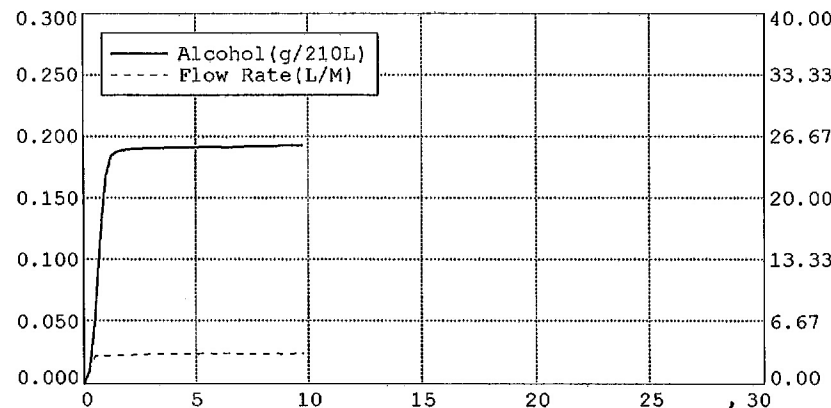
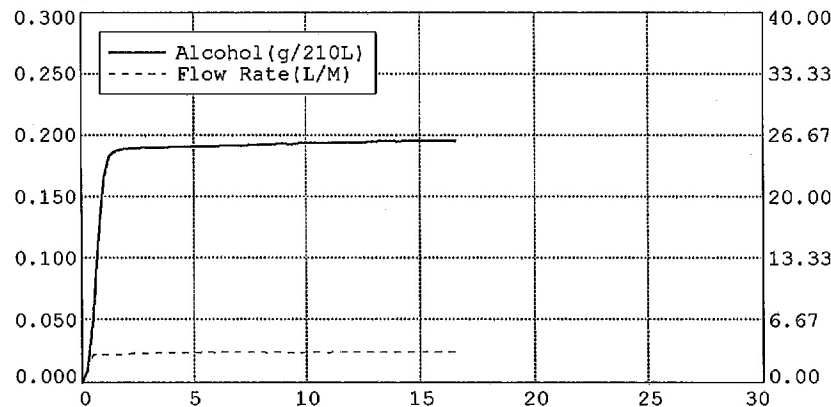
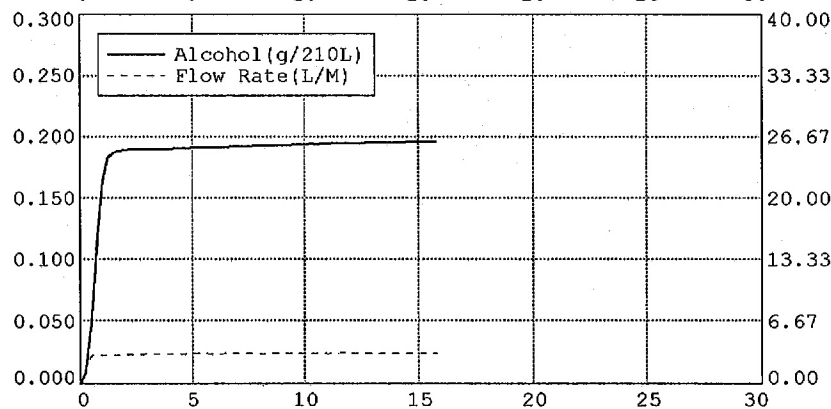
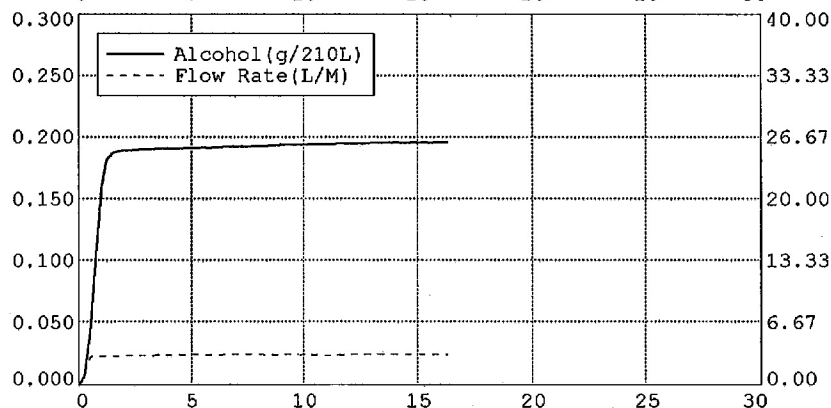
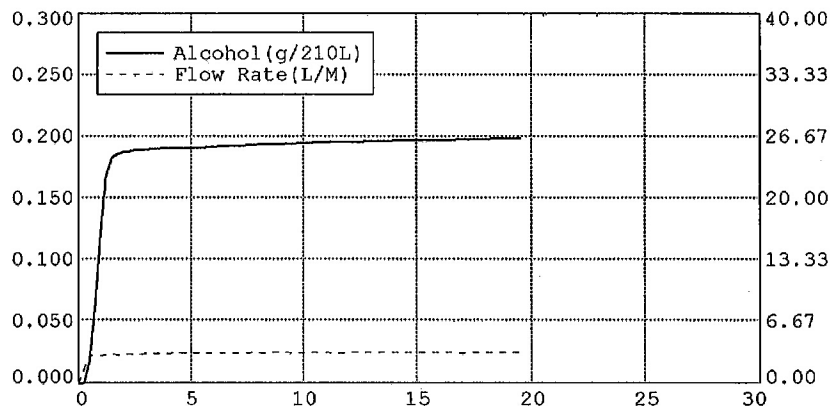
LOT #: ~~056111200A3~~ 05611200A3

EXPIRATION: 03/01/2013

003 2/17/11

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.198	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.196	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.197	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.196	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.193	11:10
BLANK TEST	0.000	11:11

Average = 0.1960
Std Dev = 0.0019



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100369

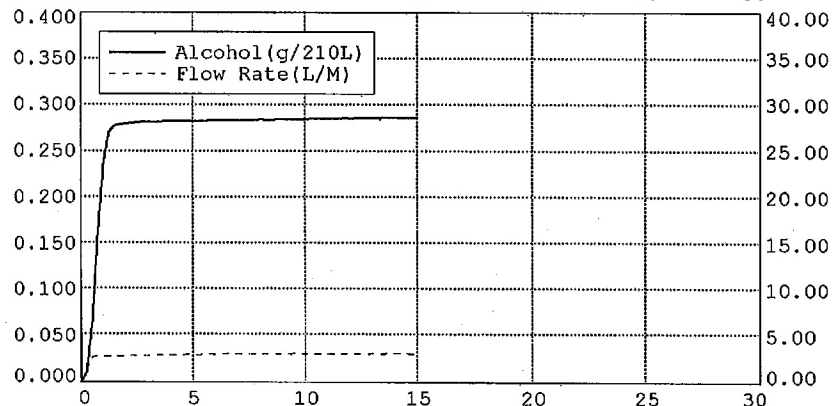
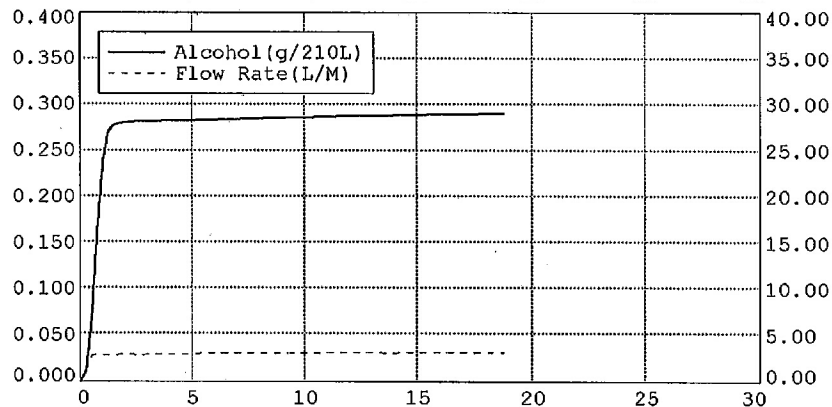
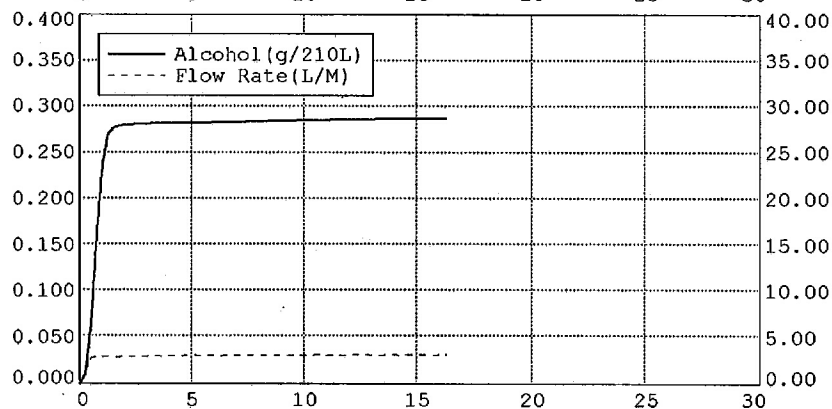
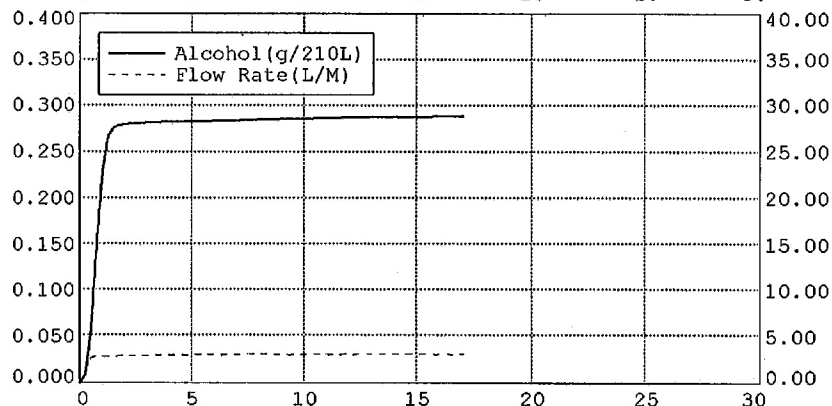
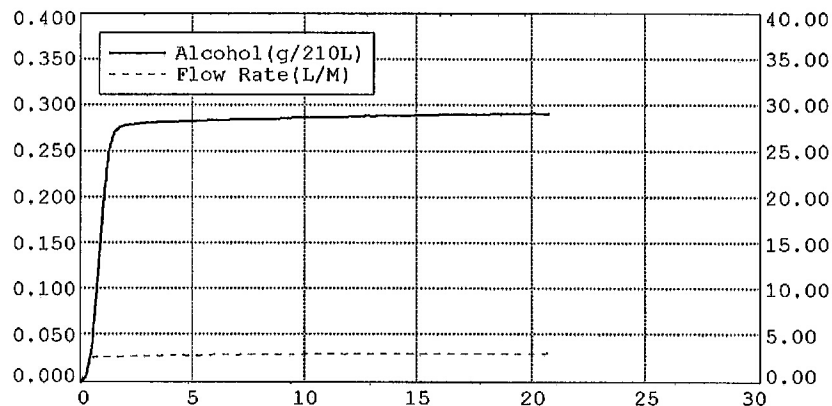
Date: 03/16/2011
Time: 11:12:47

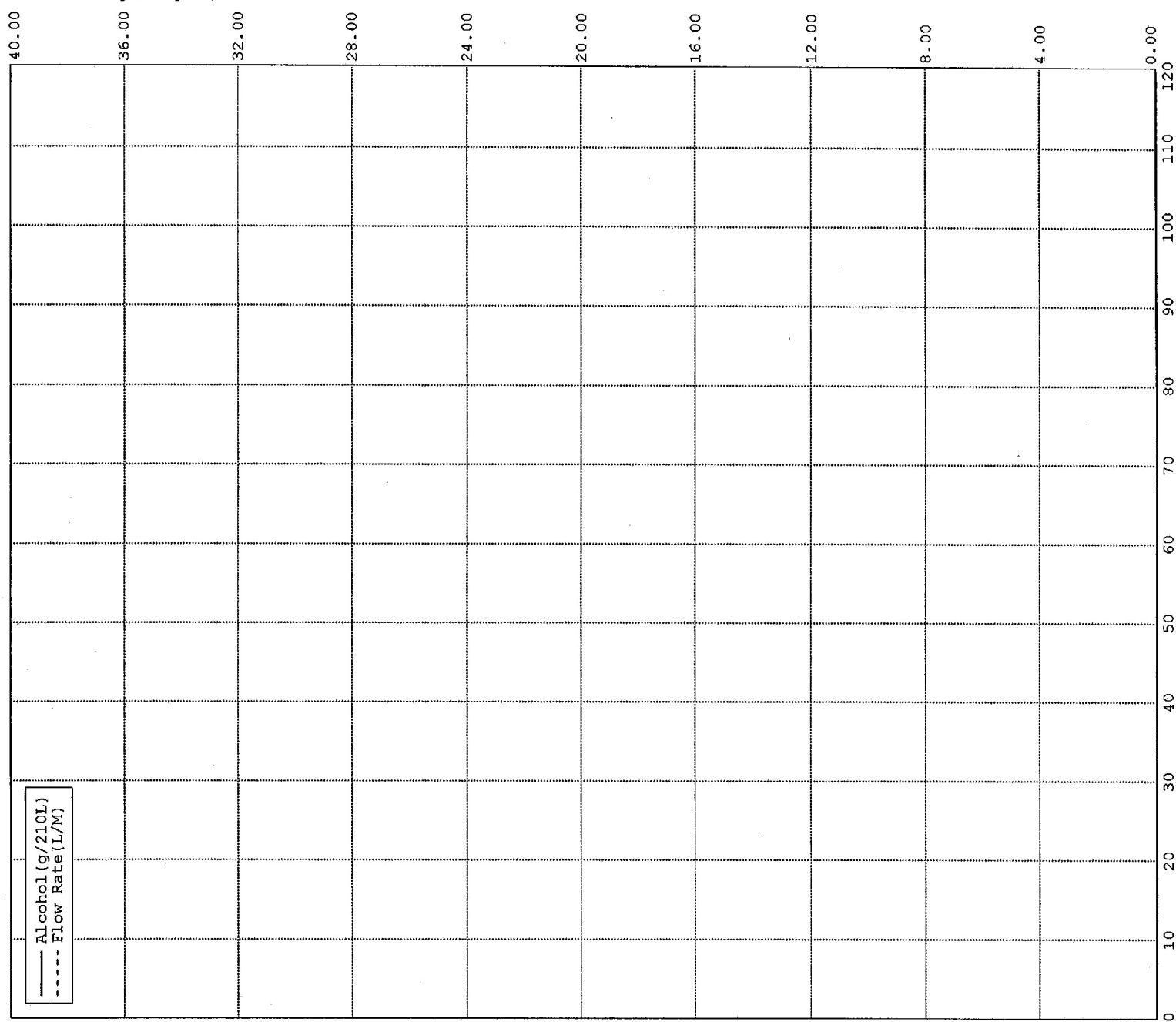
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.16: 0.292
LOT #: 05611300A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.291	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.289	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.287	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.290	11:18
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.287	11:20
BLANK TEST	0.000	11:21

Average = 0.2888
Std Dev = 0.0018

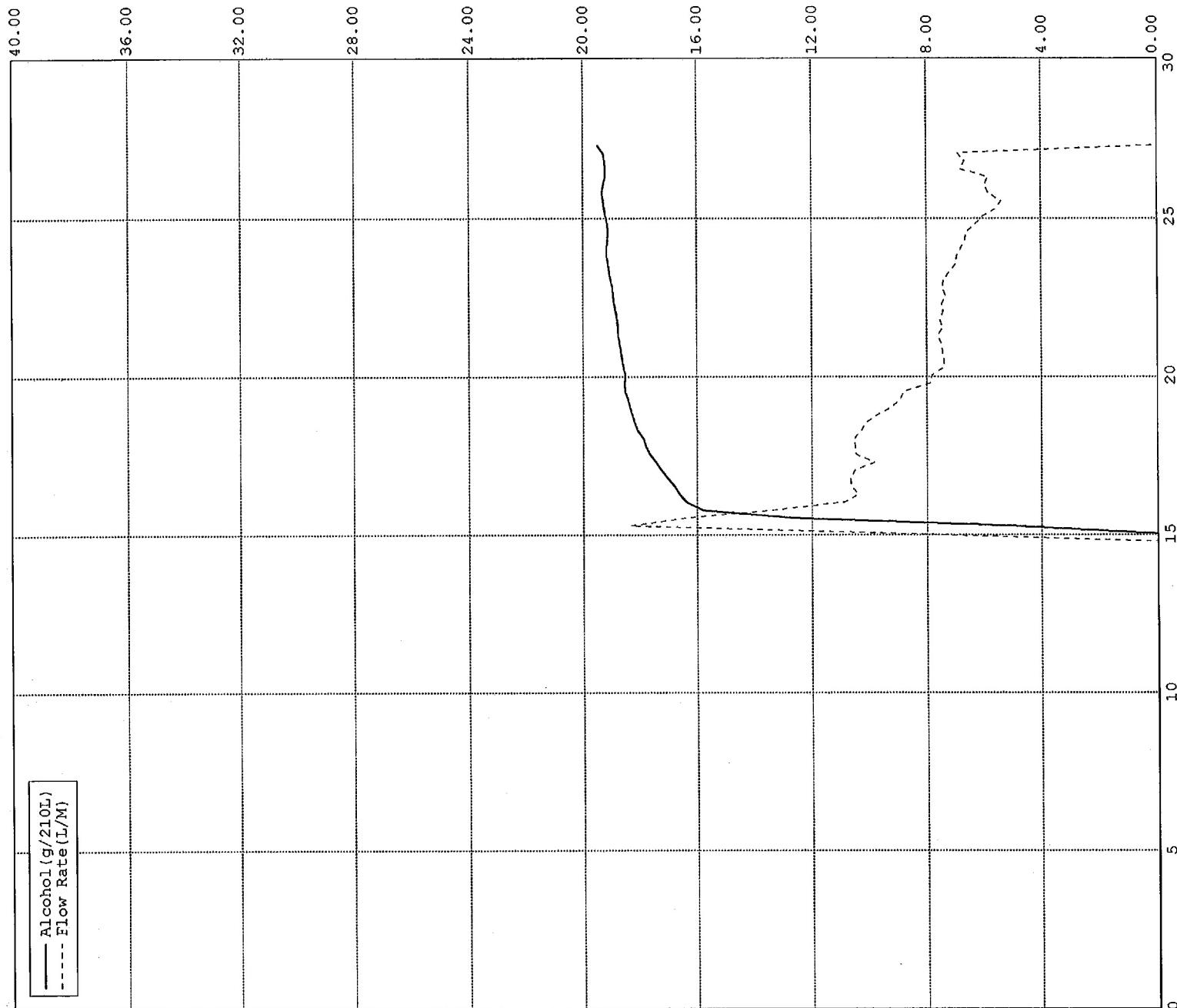




SUBJECT TEST	
----- Alaska Department of Public Safety DATAMASTER dmt: 100369 ----- Date: 03/15/2011 Time: 14:09:24 SUBJECT NAME: TEST TEST LICENSE #: INCOMPLETE OPERATOR NAME: COLLEEN S O'BRYANT OPERATOR'S #: 6237 DEPT/AGENCY: AAA1 CASE/REPORT: 11-1234 TEST TYPE: TEST EXTERNAL STANDARD INFORMATION NOMINAL: 0.080 TARGET AT 29.16: 0.077 LOT #: 33609080A1 EXPIRATION: 01/01/2012 DIAGNOSTIC CHECK PASSED 14:10 BLANK TEST 0.000 14:10 INTERNAL STANDARD VERIFIED 14:11 EXTERNAL STANDARD 0.078 14:11 BLANK TEST 0.000 14:12 SUBJECT SAMPLE INCOMPLETE 14:14	

COB 13/18

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 11:37:35

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

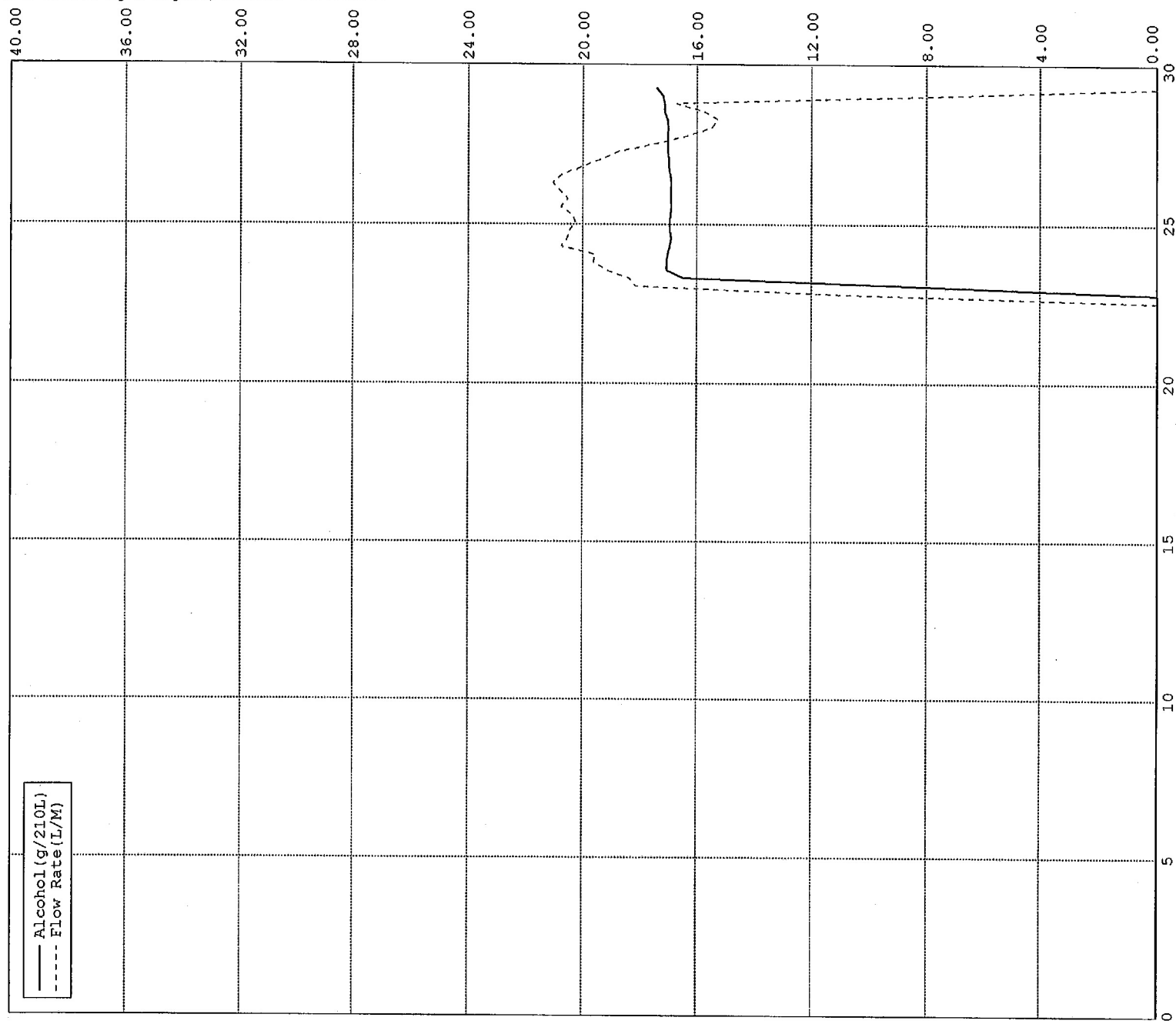
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.16: 0.077
LOT #: 02811080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:38
BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.078	11:39
BLANK TEST	0.000	11:40
SUBJECT SAMPLE	INTERFERENCE	11:40

CAB

CAB 4/18



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100369

Date: 03/16/2011
Time: 11:43:39

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 29.16: 0.077

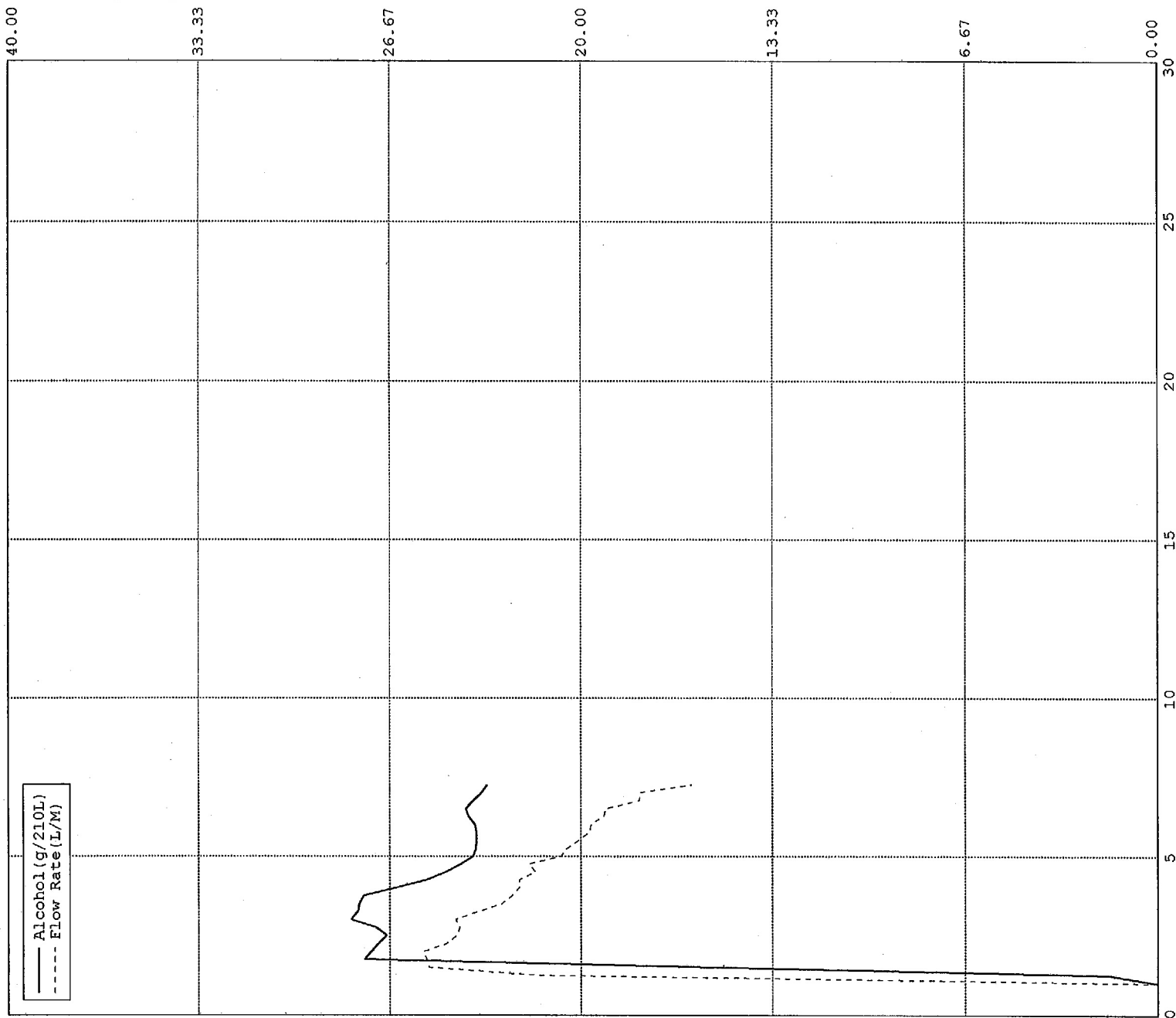
LOT #: 02811080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST PASSED 11:45
INTERNAL STANDARD VERIFIED 11:45
EXTERNAL STANDARD 0.079 11:45
BLANK TEST 0.000 11:46
SUBJECT SAMPLE INTERFERENCE 11:47

CB
CB 15/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100369

Date: 03/16/2011
 Time: 11:58:36

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

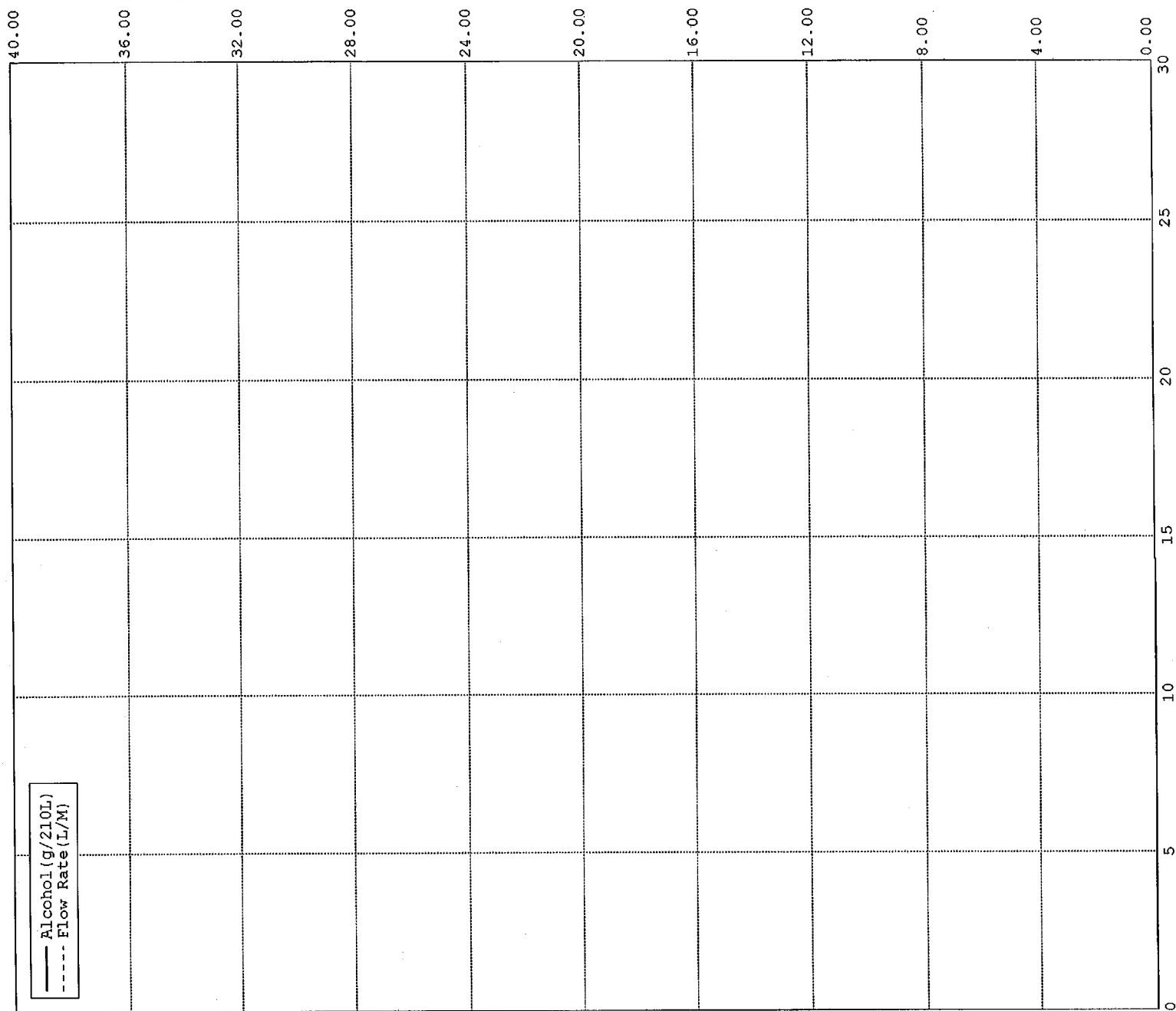
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.16: 0.077
 LOT #: 02811080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:59
BLANK TEST	0.000	11:59
INTERNAL STANDARD	VERIFIED	11:59
EXTERNAL STANDARD	0.077	12:00
BLANK TEST	0.000	12:01
SUBJECT SAMPLE	Invalid	12:01

COB

COB 1/6/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 12:08:20

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

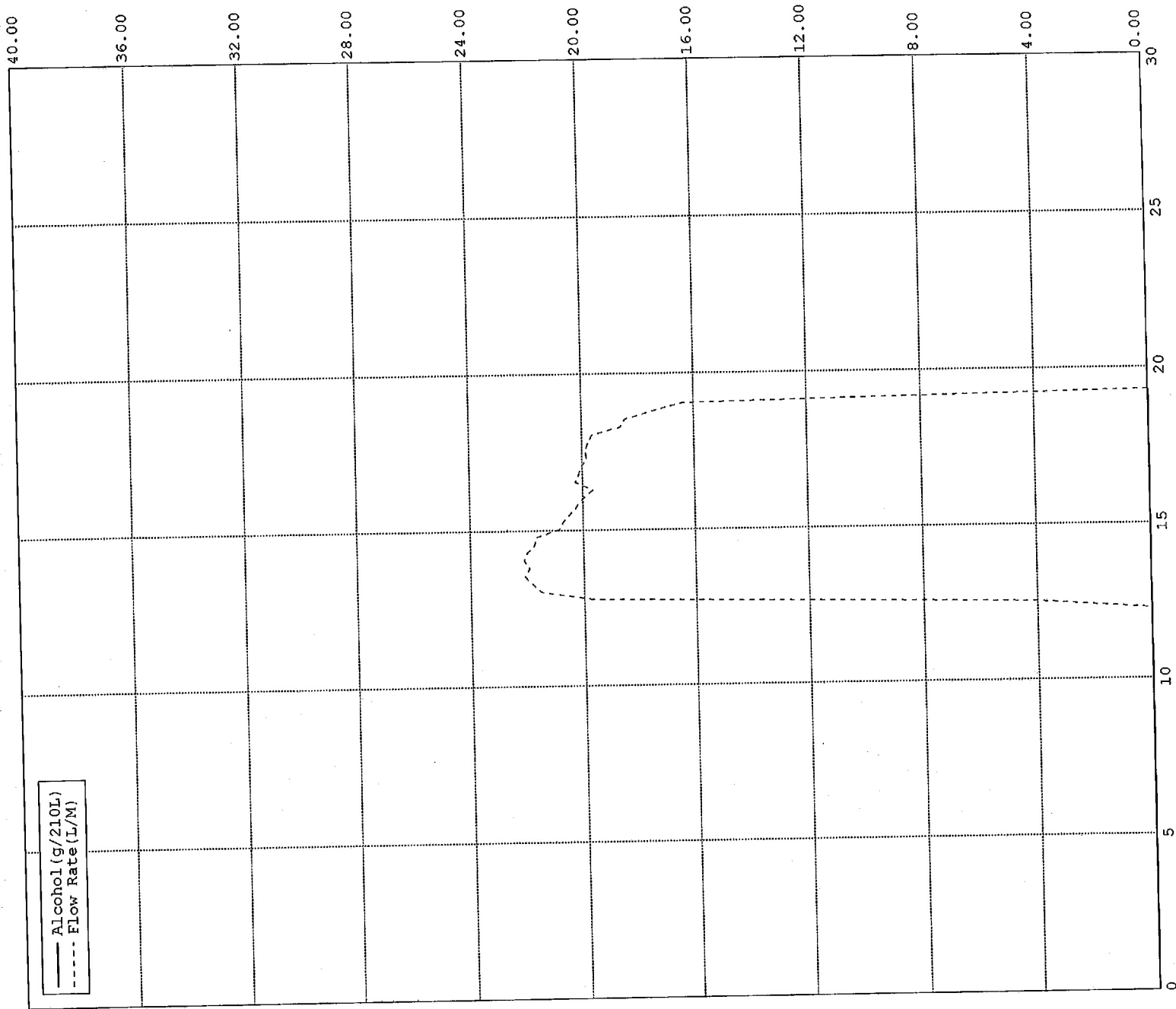
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.077
LOT #: 02811080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 12:09
BLANK TEST 0.000 12:09
INTERNAL STANDARD VERIFIED 12:09
EXTERNAL STANDARD 0.077 12:09
BLANK TEST 0.000 12:10

RFI Detected

000317/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 03/16/2011
Time: 12:50:20

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 29.17: 0.077
LOT #: 02811080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	12:53
BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.079	12:53
BLANK TEST	0.000	12:54
SUBJECT SAMPLE	0.000	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.079	12:56
BLANK TEST	0.000	12:57

COB 18/18