

	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 FormInstrument # 100362Analyst Colleen O'BryantDate 3/15/12

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 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 02511080A1 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 15210300A3 Exp 07/01/12
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 9340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 10/18/10 SN DR6267
 - ii. Isopropanol - Mnf Guth 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)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 08:33:20

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 46.3°C	PASSED

PUMP INFO

Flow Rate = 4.679 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: 100362

Date: 03/15/2011

Time: 10:57 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.6°C

Current Barometer 29.2 in

Volume (Ltr) 1.55

Settings

Lamp: 1.83 V

Bias: 79 V

Cooler: 1.61 V

Chopper: 533 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.556 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 07:01:28

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

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

Ca	=	0.1000		
CAL	=	0.977426	0.800	<= CAL < 1.200
b1	=	0.0004	0.0000	<= b1 < 0.0040
b2	=	0.0058	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0727	0.0500	<= Xq < 0.2000
a21	=	1.161401	1.050	<= a21 < 1.300
a31	=	0.532998	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100362

Date: 03/15/2011
 Time: 13:06:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

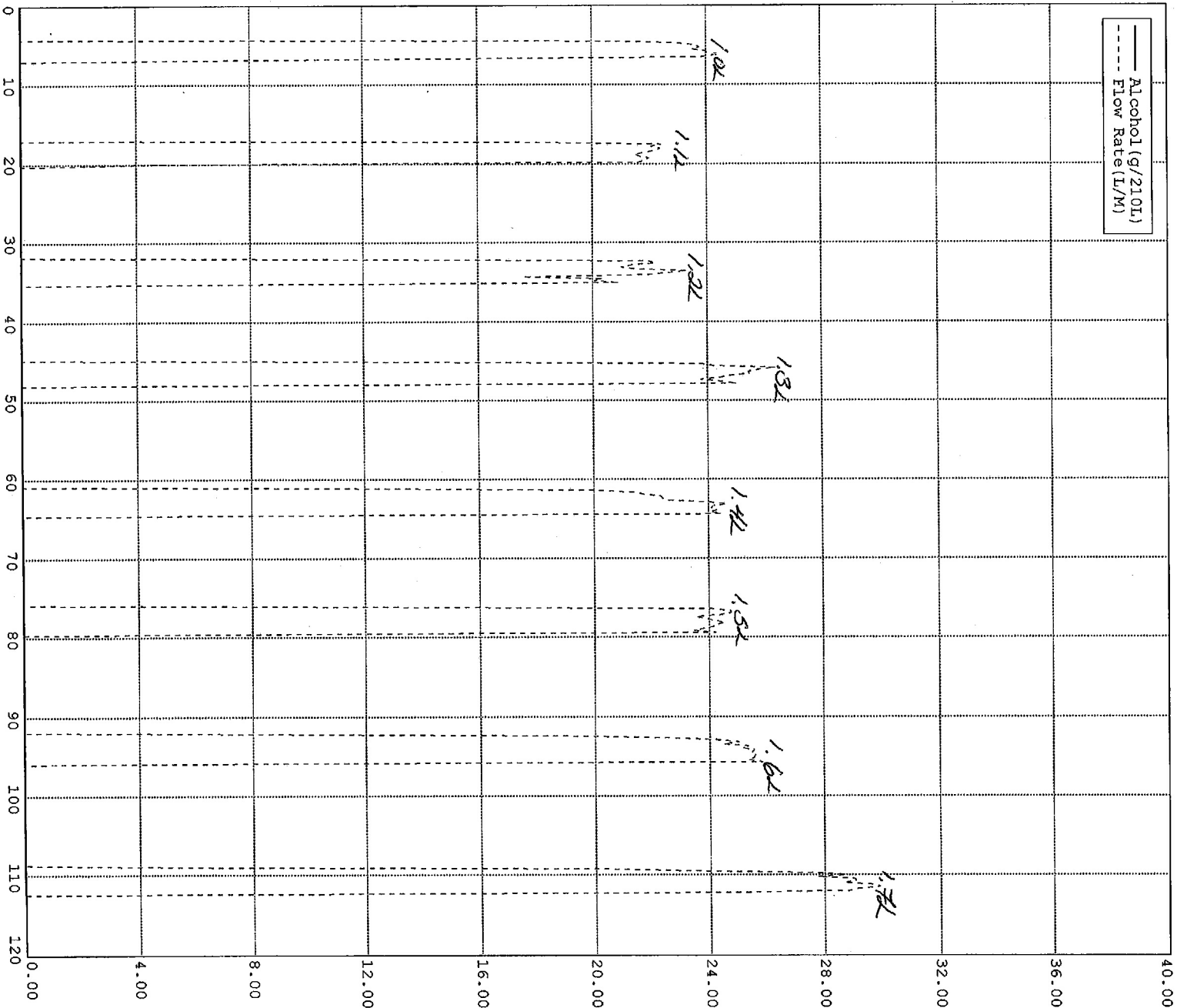
DEPT/AGENCY:
 AAA1
 CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.11: 0.077
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:09
BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.078	13:10
BLANK TEST	0.000	13:11
SUBJECT SAMPLE	0.000	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.078	13:14
BLANK TEST	0.000	13:15

03/5/18

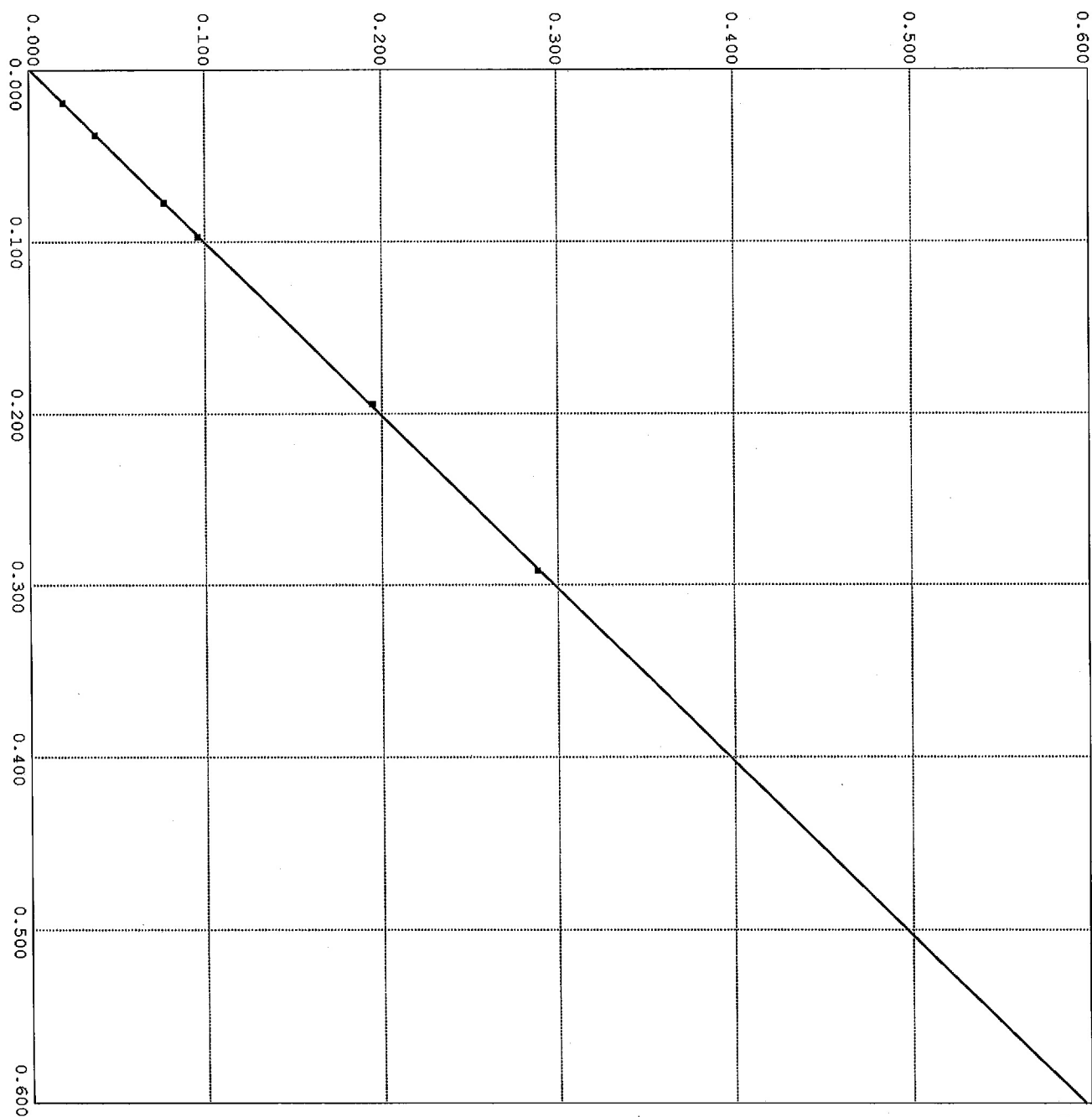
1003



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100362Date: 03/15/2011
Time: 13:17:42SUPERVISOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.038	0.0384	0.0005
0.077	0.0776	0.0005
0.097	0.0966	0.0005
0.194	0.1956	0.0005
0.291	0.2892	0.0013

SLOPE = 0.993727
 R^2 = 0.999953

CB 6/18

CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100362

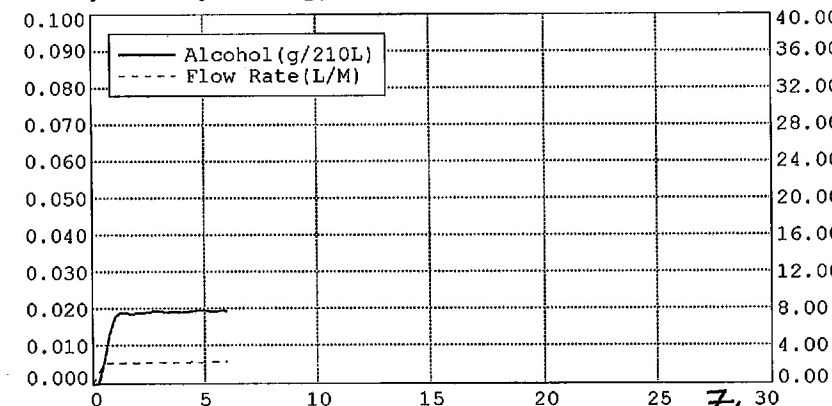
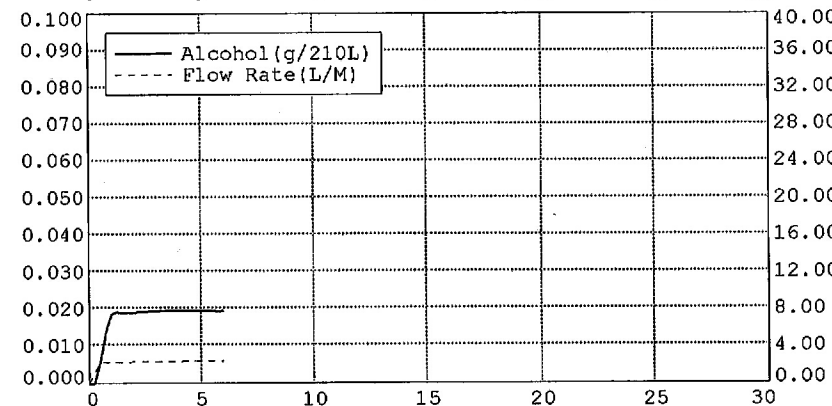
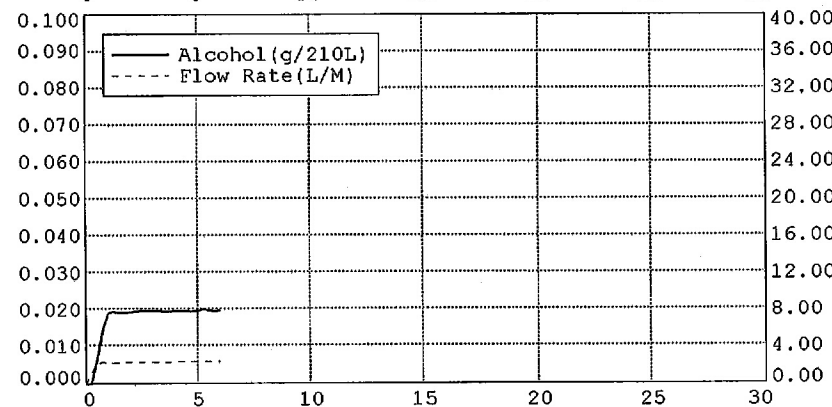
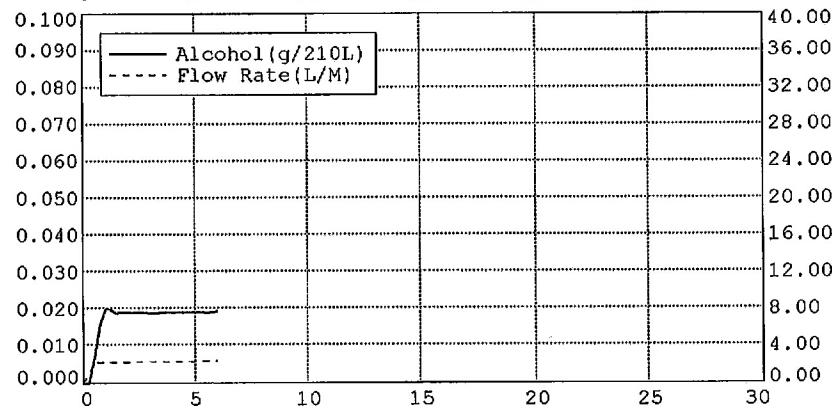
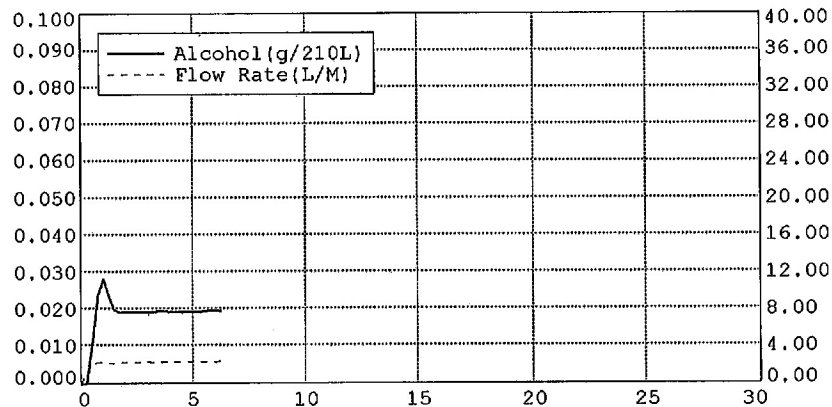
Date: 03/15/2011
Time: 13:17:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.11: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.020	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.020	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.020	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.020	13:23
BLANK TEST	0.000	13:24

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 13:38:26

EXTERNAL STANDARD INFORMATION

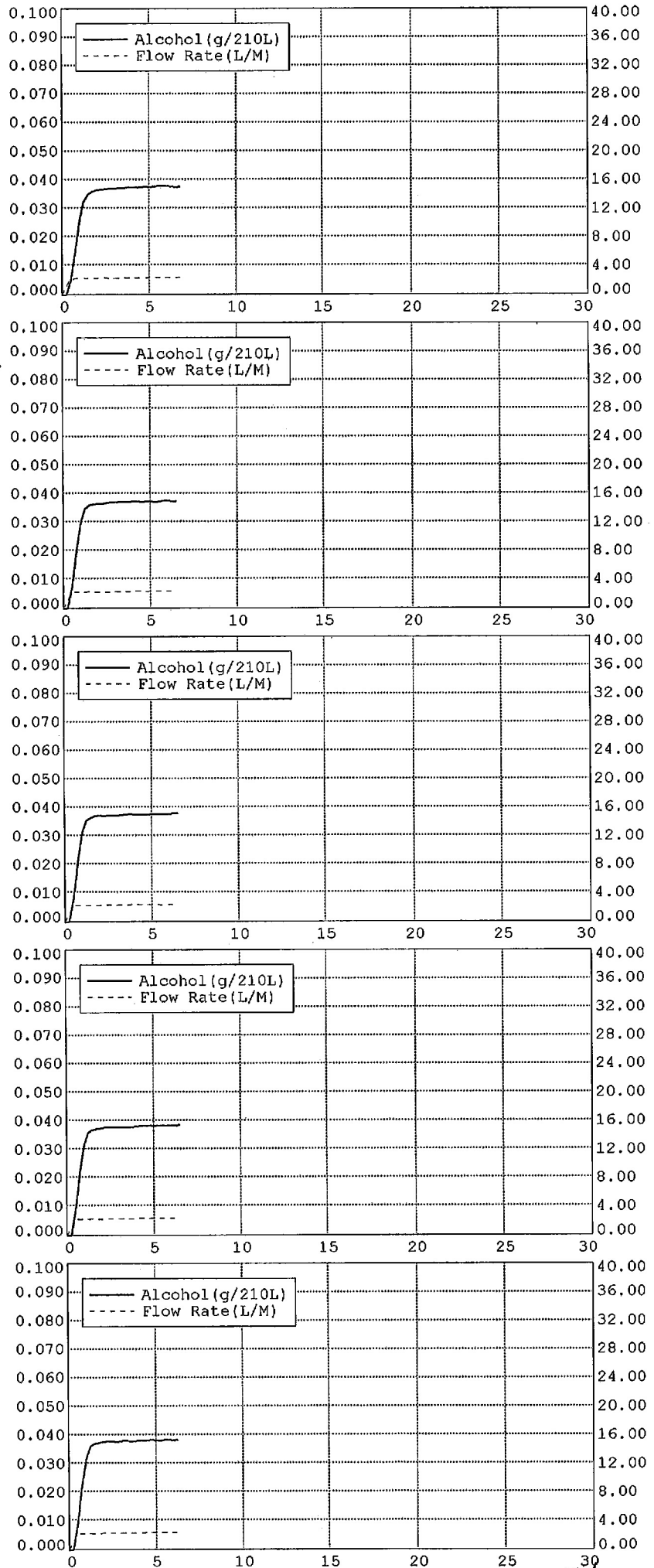
NOMINAL: 0.040

TARGET AT 29.12: 0.038

LOT #: 0251104042 ~~0281102041~~ 0281104042
EXPIRATION: 02/01/2013 ~~02811711~~

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.038	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.038	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.038	13:42
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.039	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.039	13:44
BLANK TEST	0.000	13:45

Average = 0.0384
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100362

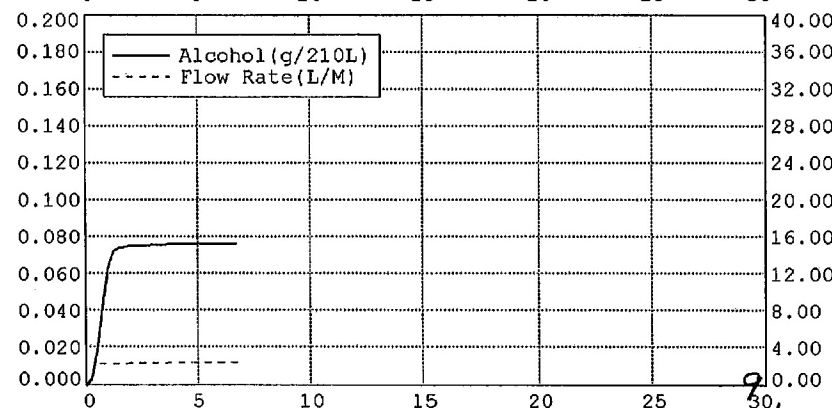
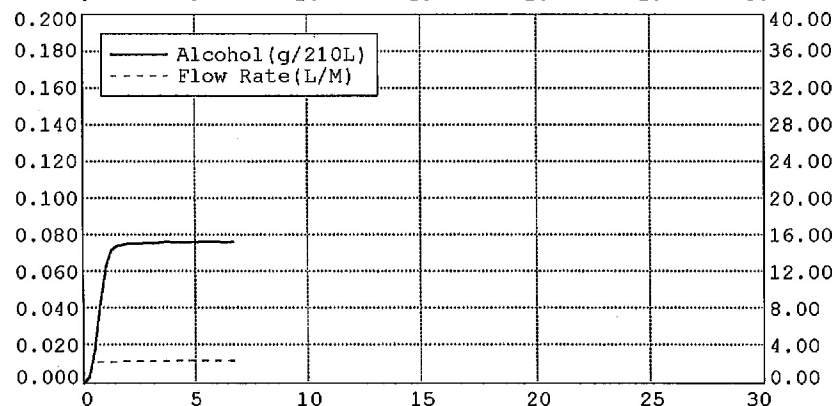
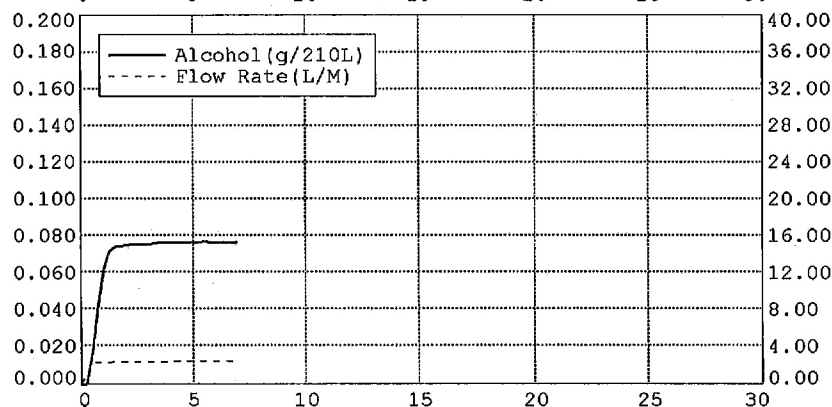
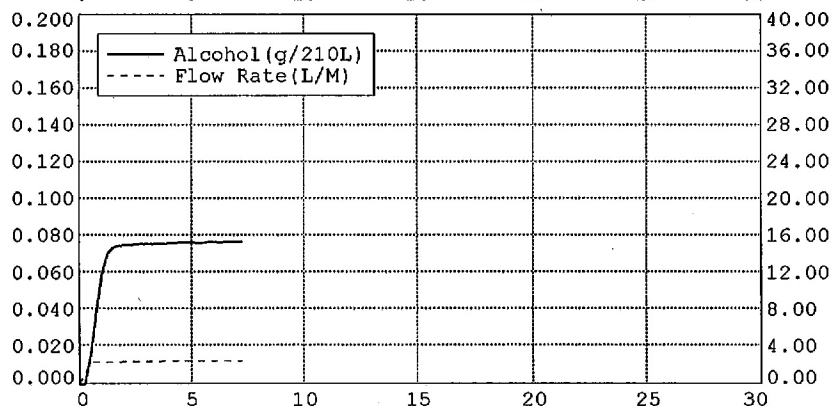
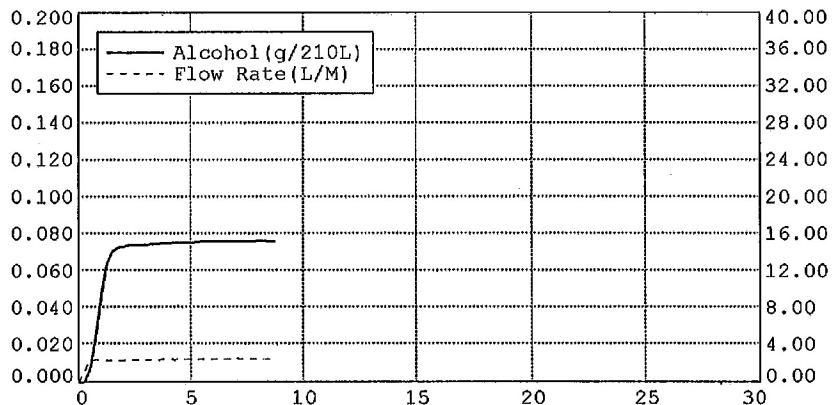
Date: 03/15/2011
Time: 13:54:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.077
LOT #: 02511080A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.077	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.077	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.078	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.078	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.078	14:00
BLANK TEST	0.000	14:01

Average = 0.0776
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

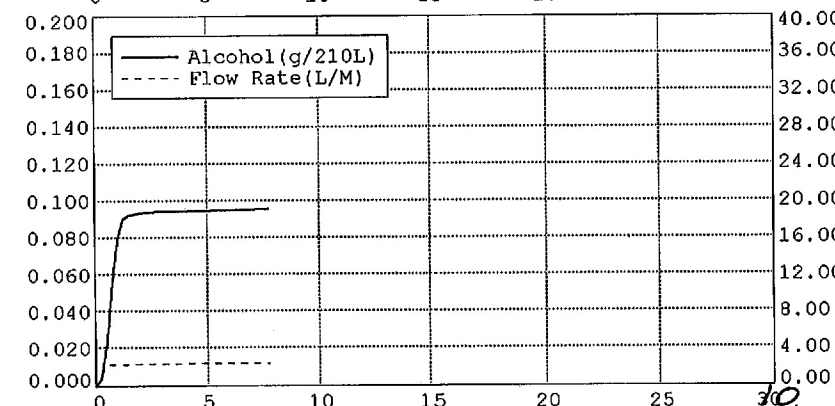
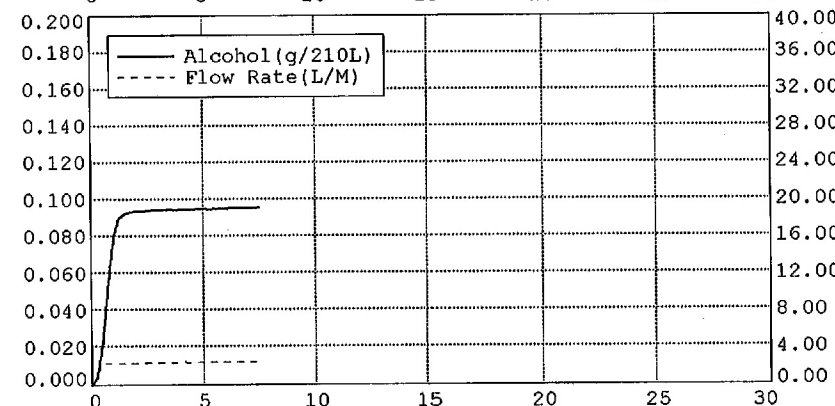
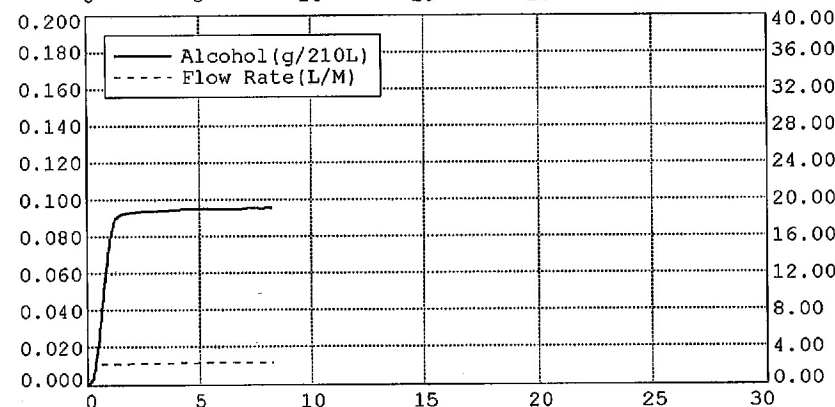
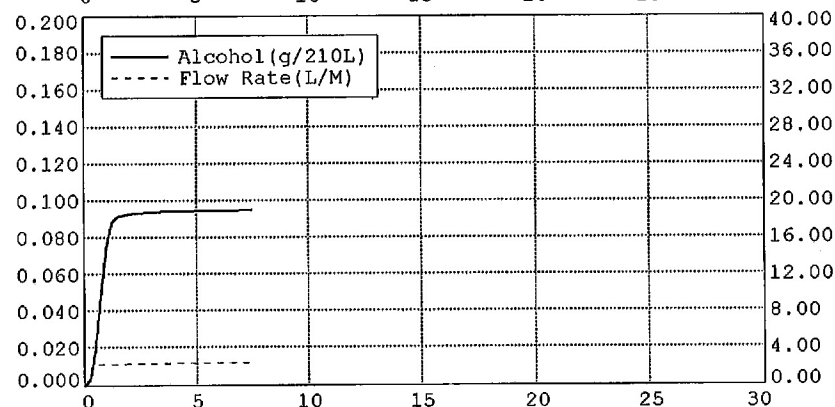
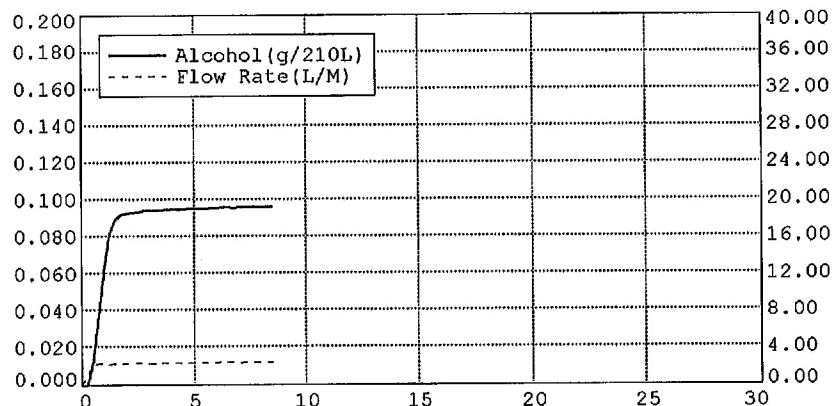
Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 14:03:23

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.10: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.097	14:07
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.096	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.097	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.096	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.097	14:11
BLANK TEST	0.000	14:12

Average = 0.0966
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100362

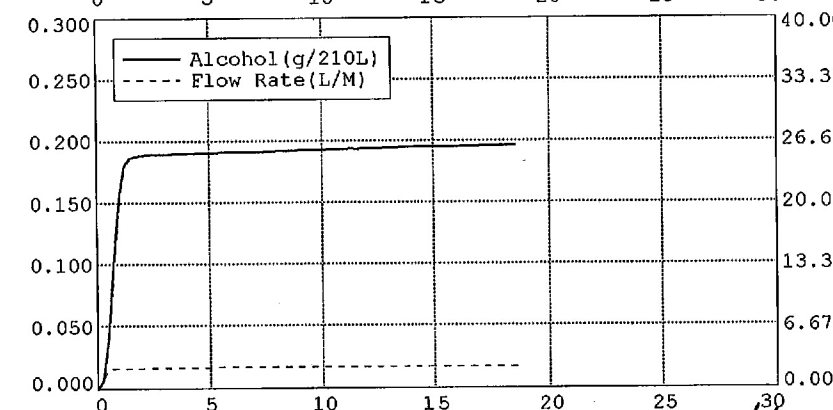
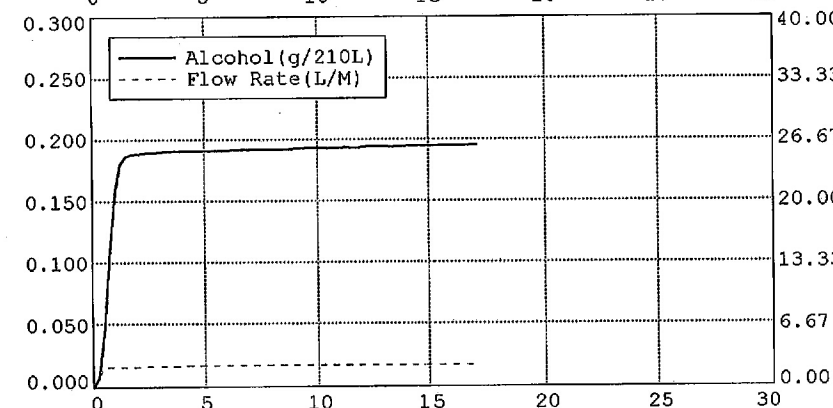
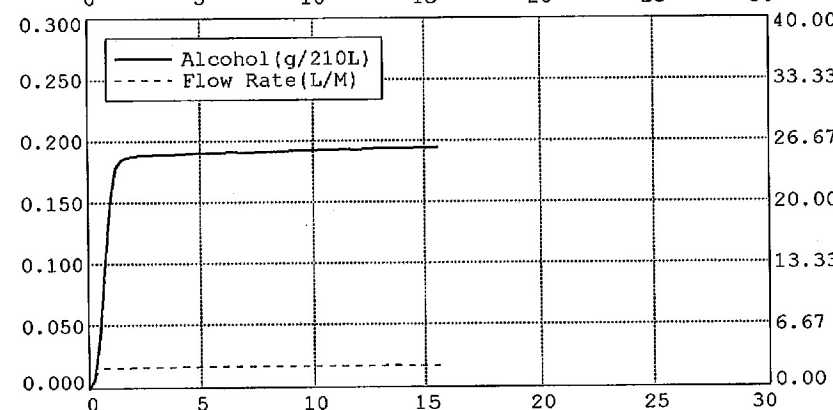
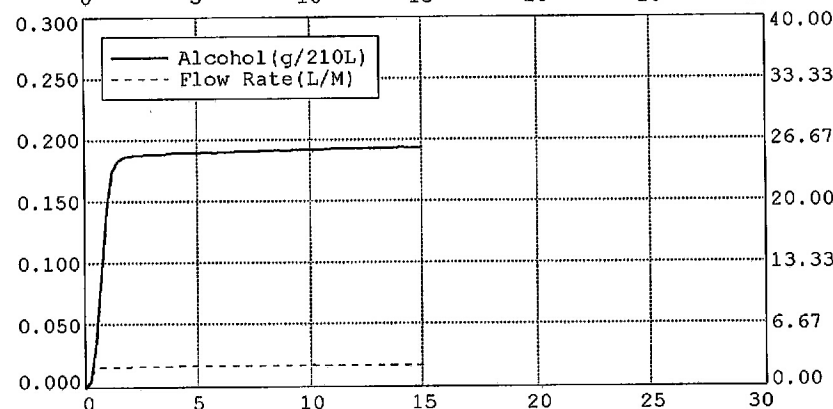
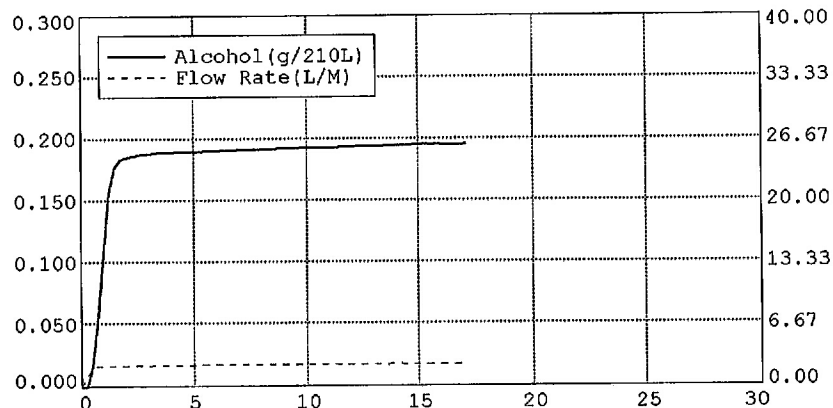
Date: 03/15/2011
Time: 14:14:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.10: 0.194
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.196	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.195	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.195	14:19
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.196	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.196	14:21
BLANK TEST	0.000	14:22

Average = 0.1956
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100362

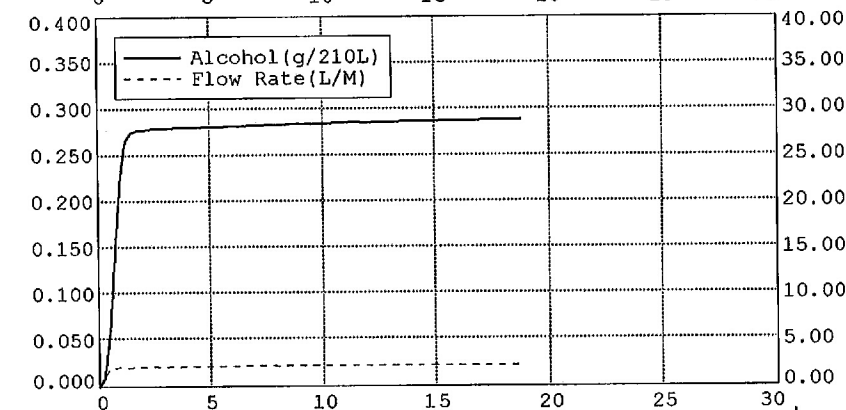
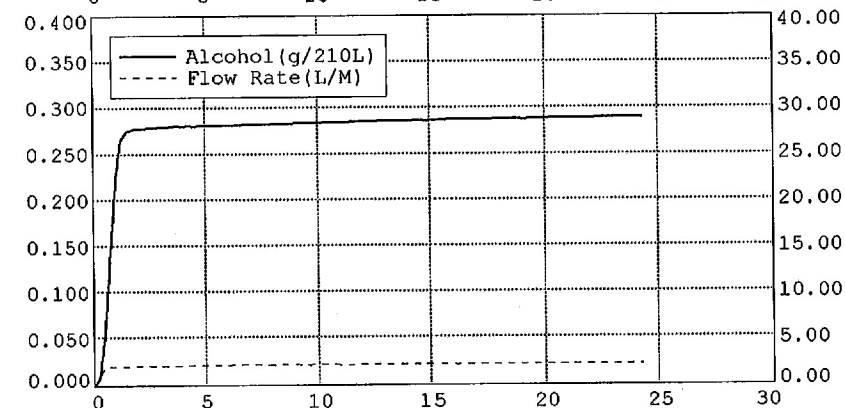
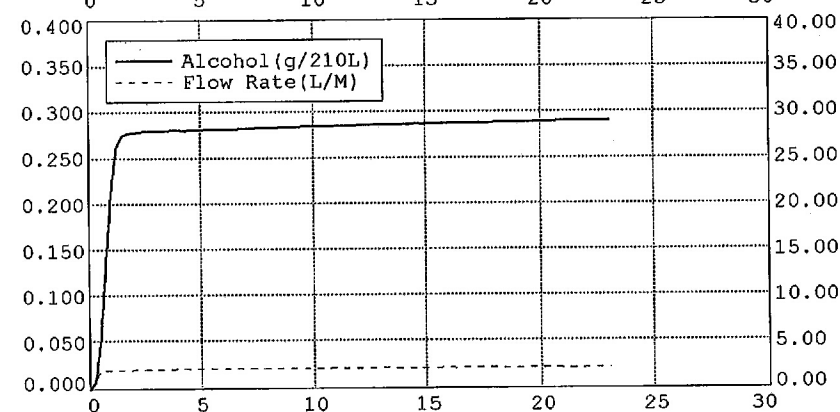
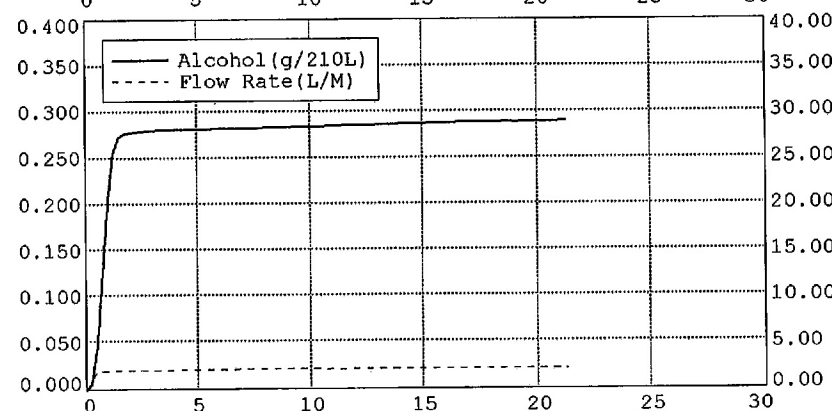
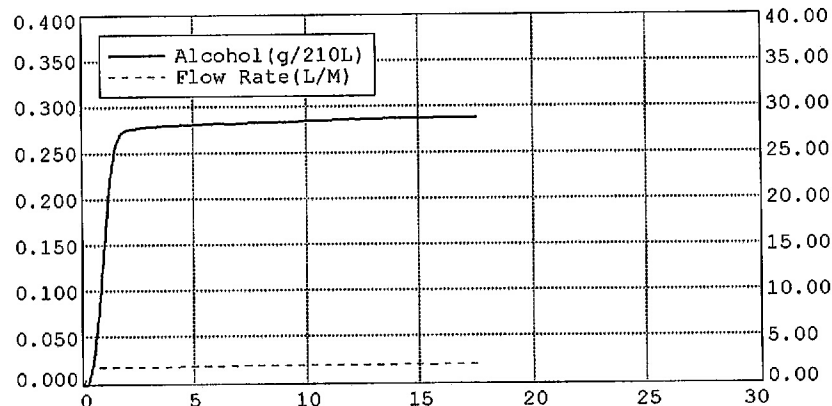
Date: 03/15/2011
Time: 14:23:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.09: 0.291
LOT #: 15210300A3
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.288	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.289	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.291	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.290	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.288	14:33
BLANK TEST	0.000	14:34

Average = 0.2892
Std Dev = 0.0013



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 14:37:38

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

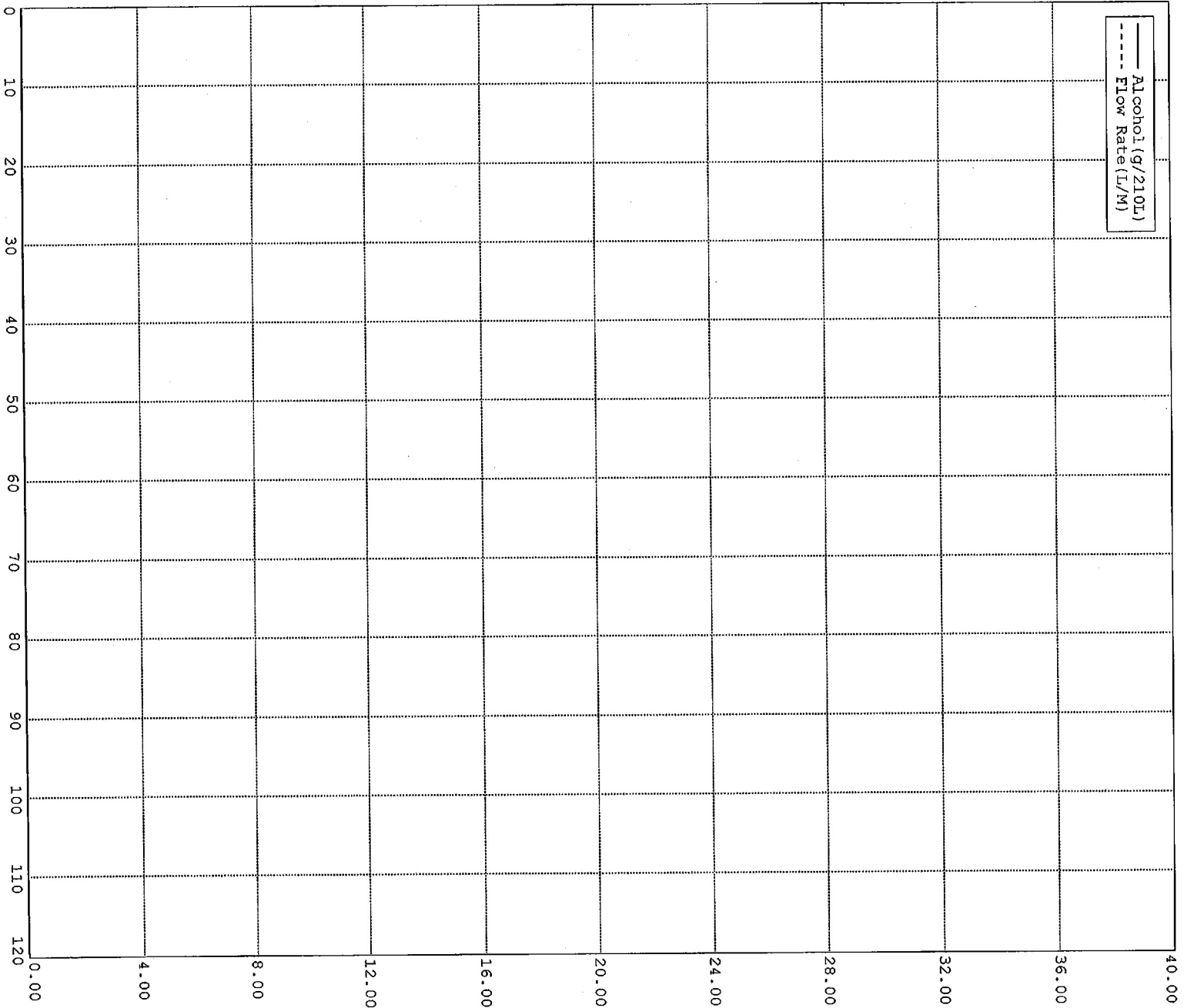
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

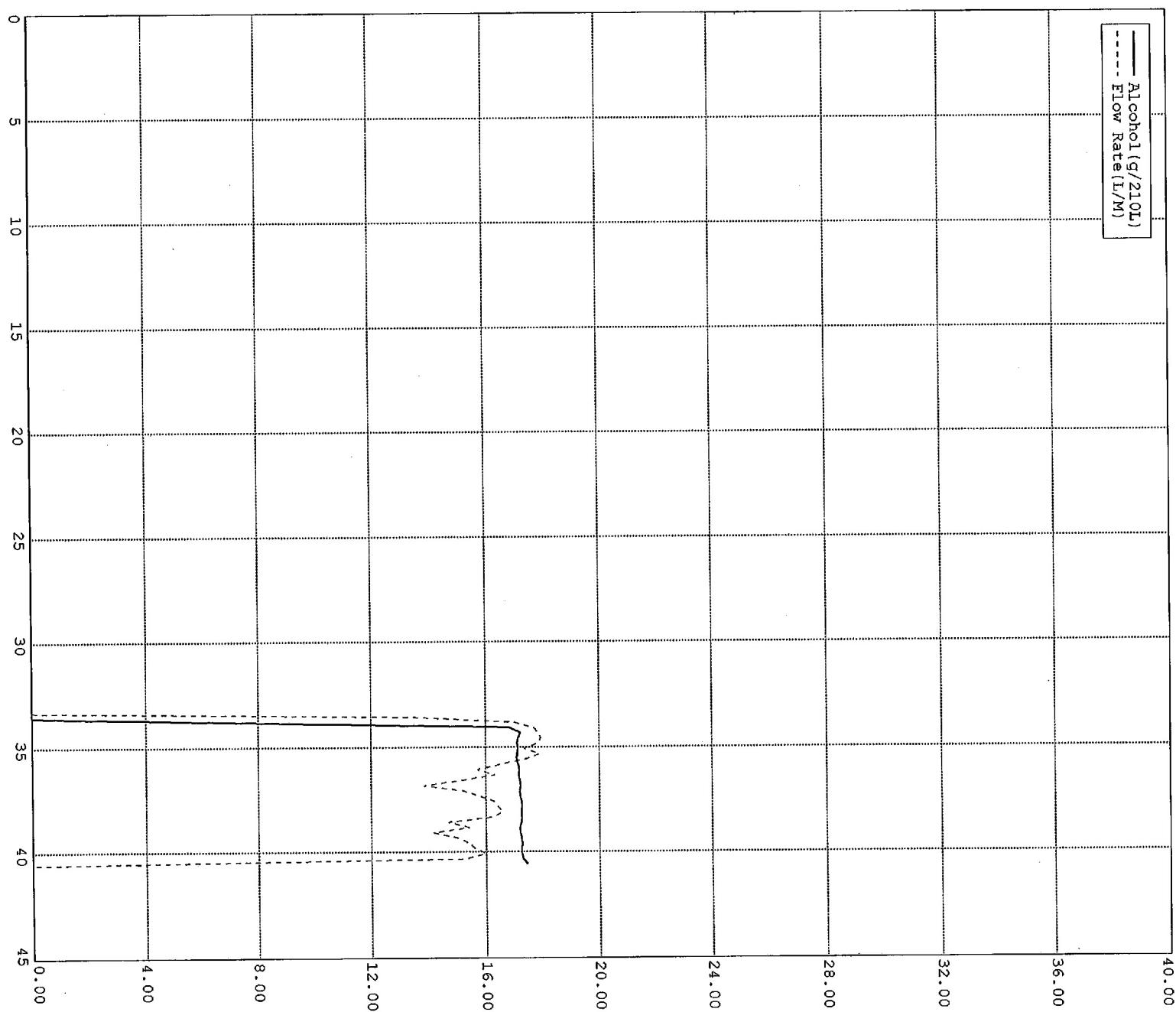
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.077
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:38
BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.078	14:39
BLANK TEST	0.000	14:40
SUBJECT SAMPLE	INCOMPLETE	14:42

CBS 13
3/18



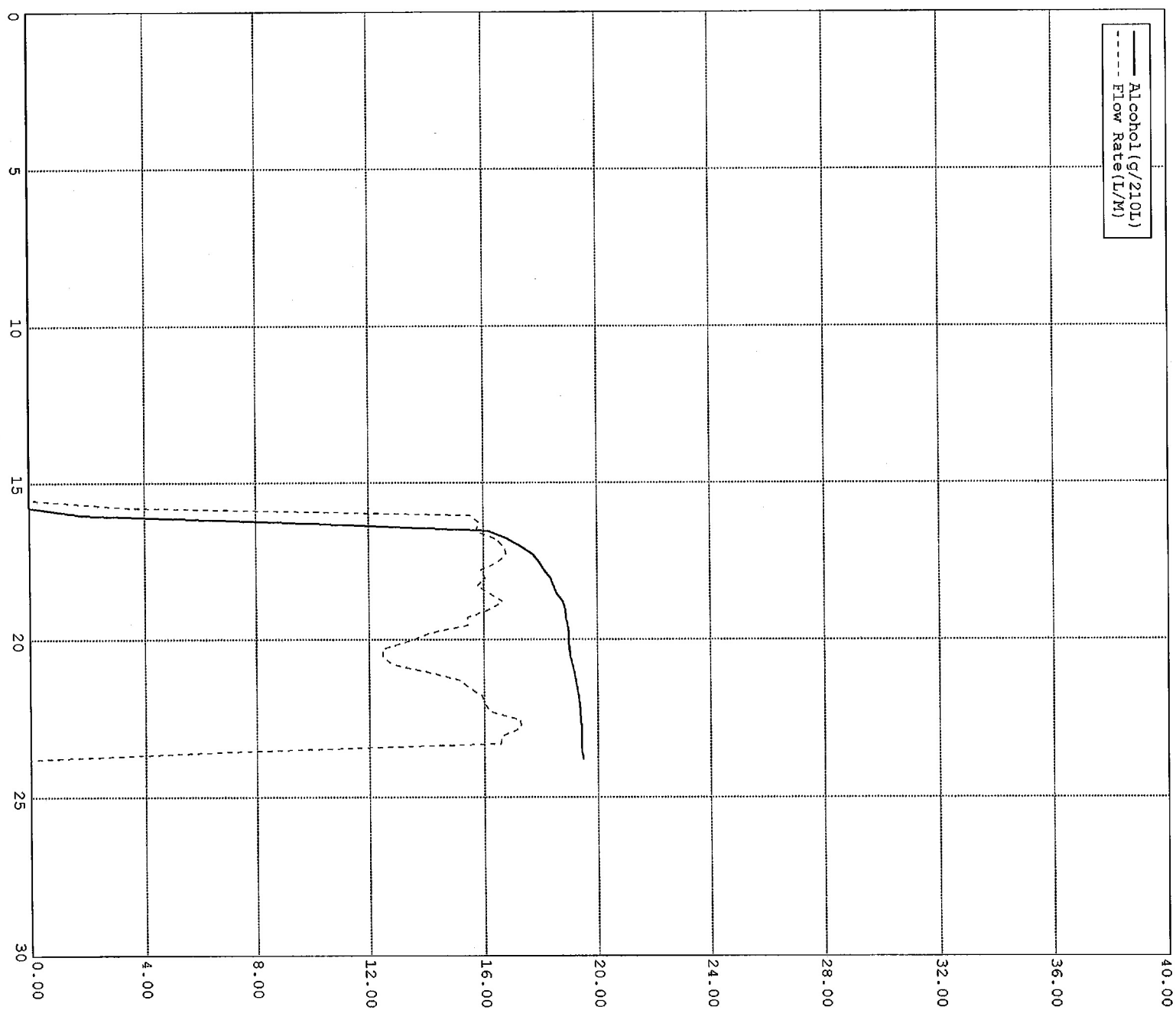
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100362Date: 03/16/2011
Time: 09:22:25SUBJECT NAME:
TEST TEST
LICENSE #: INTF-ACETOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.077
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 09:25
INTERNAL STANDARD VERIFIED 09:25
EXTERNAL STANDARD 0.078 09:25
BLANK TEST 0.000 09:26
SUBJECT SAMPLE INTERFERENCE 09:27

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100362Date: 03/16/2011
Time: 09:13:44SUBJECT NAME:
TEST TEST
LICENSE #: INTF-ISOOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.077
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST
INTERNAL STANDARD
EXTERNAL STANDARD
BLANK TEST
SUBJECT SAMPLE
PASSED
0.000
VERIFIED
0.078
0.000
INTERFERENCE
09:15
09:15
09:15
09:16
09:17CAB 44/18
15

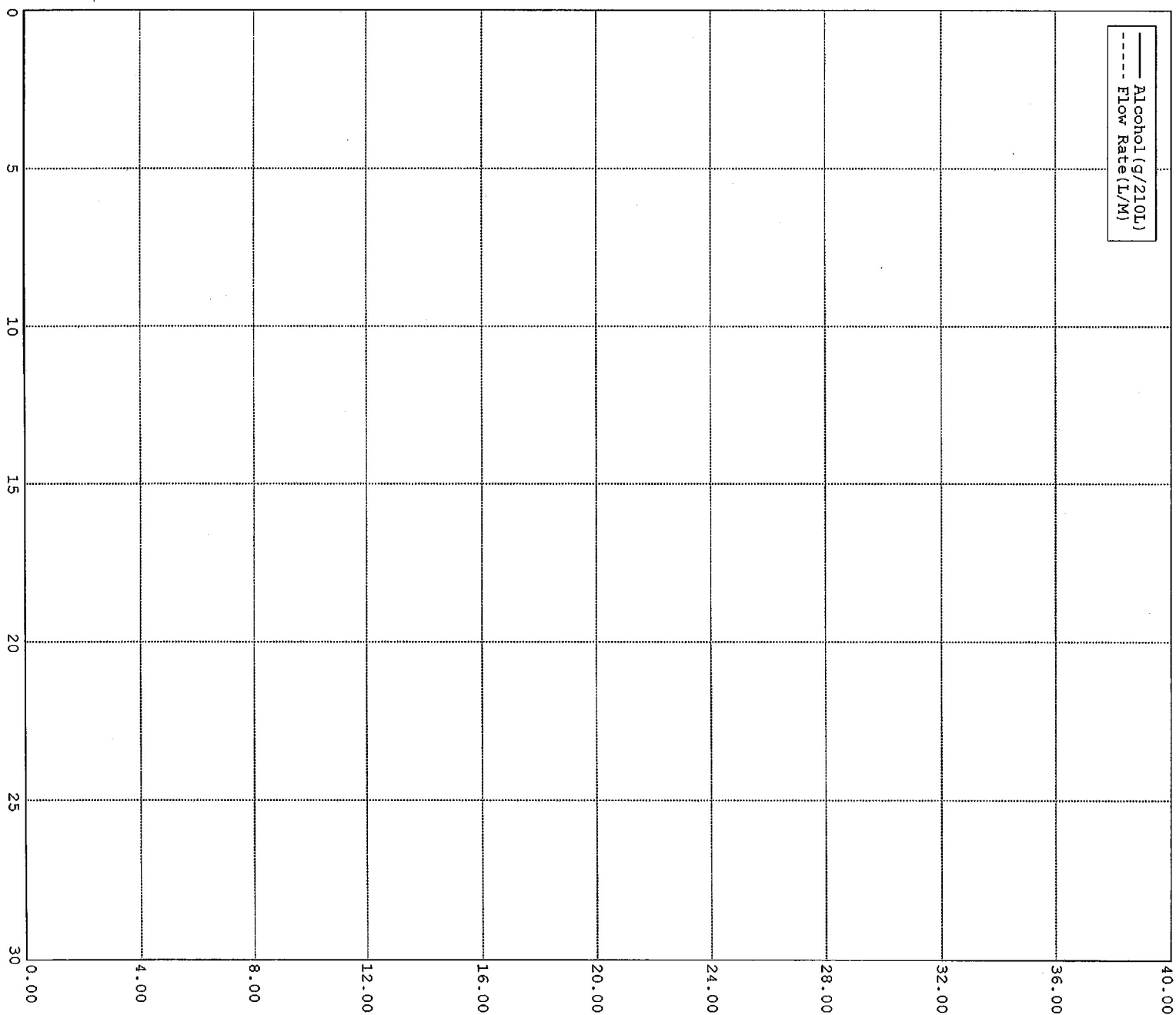
CAB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100362Date: 03/16/2011
Time: 09:06:39SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.077
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 09:08
INTERNAL STANDARD VERIFIED 09:08
EXTERNAL STANDARD 0.078 09:08
BLANK TEST 0.000 09:09
RFI Detected

03/16/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/16/2011
Time: 09:31:04

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

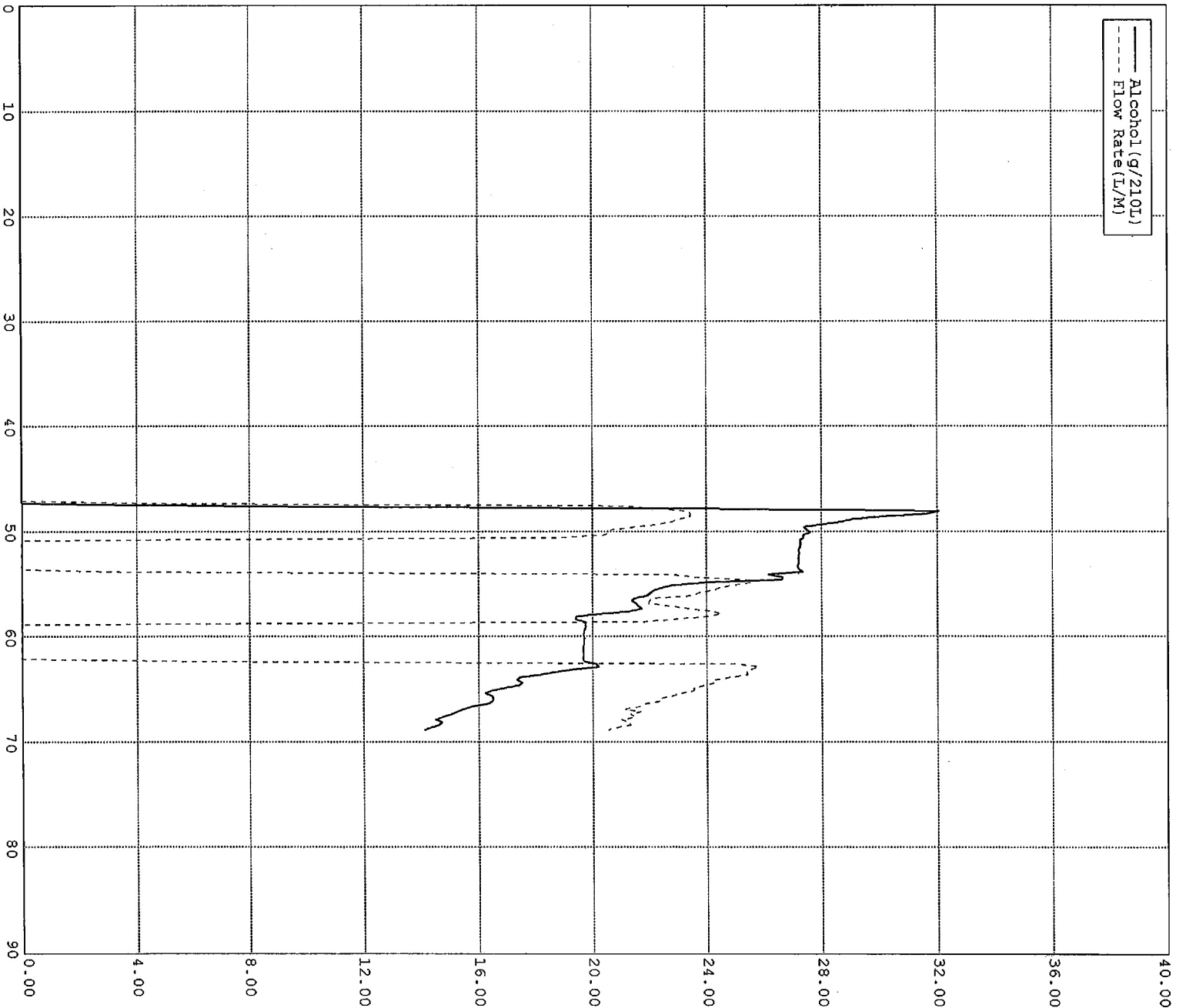
DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.077
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	
PASSED	09:32
BLANK TEST	0.000 09:32
INTERNAL STANDARD	VERIFIED 09:32
EXTERNAL STANDARD	0.077 09:32
BLANK TEST	0.000 09:33
SUBJECT SAMPLE	Invalid 09:34

03/17/11

CRB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100362

Date: 03/16/2011
 Time: 10:04:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.09: 0.077
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:05
BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:06
EXTERNAL STANDARD	0.077	10:06
BLANK TEST	0.000	10:07
SUBJECT SAMPLE	0.000	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.078	10:08
BLANK TEST	0.000	10:09

03/18/11

CS

