

	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 # 100402

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 1500 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 02511080A2 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 03611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/11
 1. Simulator Calibration Date 10/18/10 SN DR6267
 - ii. Isopropanol - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/11
 1. Simulator Calibration Date 8/2nd 4/10 SN SD1200
 - 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'Bryant
Date 6/7/11COB/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

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

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.2°C	PASSED

PUMP INFO

Flow Rate = 5.566 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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COB 3/18

Technician Screen

DATAMASTER dmt: 100402

Date: 06/07/2011

Time: 8:15 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 46.6°C

Current Barometer 30.0 in

Volume (Ltr) 1.52

Settings

Lamp: 1.88 V

Bias: 80 V

Cooler: 1.61 V

Chopper: 538 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.231 V

CAB 3/8

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

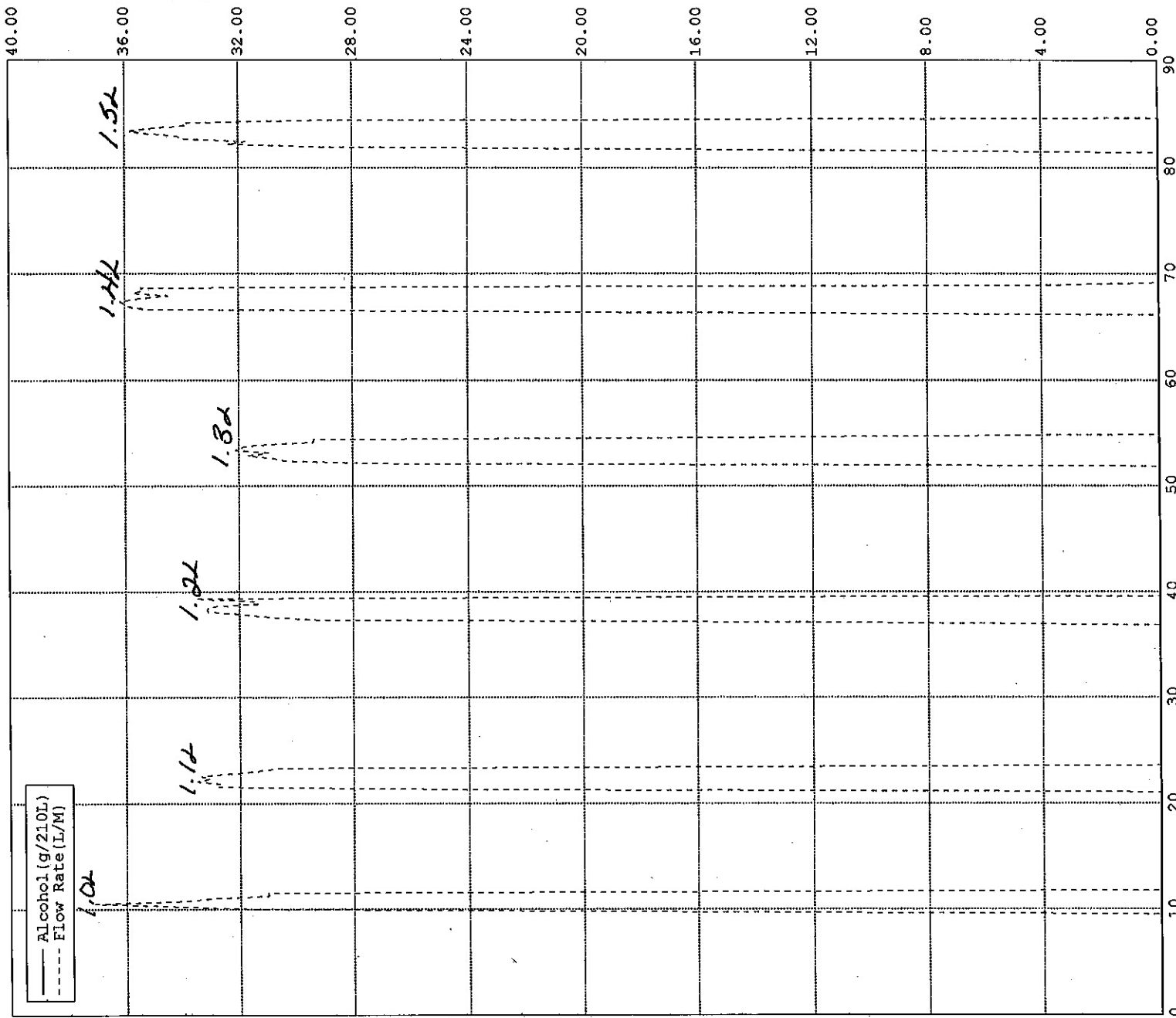
Date: 06/01/2011
Time: 08:56:02

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000		
CAL	=	0.966299	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.0785	0.0500	<= Xq < 0.2000
a21	=	1.174059	1.050	<= a21 < 1.300
a31	=	0.375916	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100402

Date: 06/07/2011
Time: 08:41:16

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1

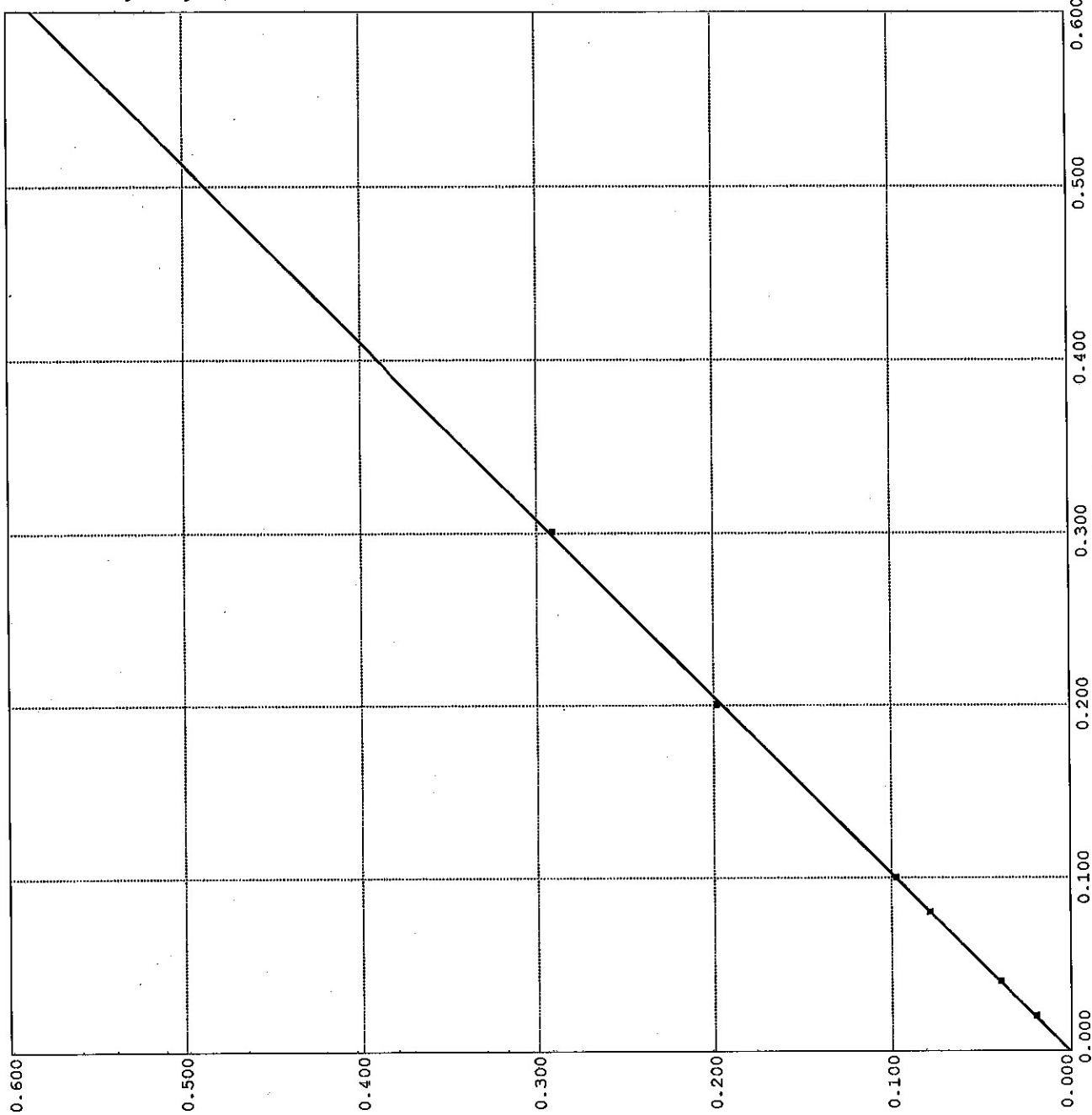
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:42
BLANK TEST	0.000	08:42
INTERNAL STANDARD	VERIFIED	08:42
EXTERNAL STANDARD	0.080	08:43
BLANK TEST	0.000	08:44
SUBJECT SAMPLE	0.000	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.080	08:46
BLANK TEST	0.000	08:47

06/5/18
CAB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 06/07/2011
 Time: 08:52:28

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0396	0.0005
0.080	0.0794	0.0005
0.100	0.0984	0.0005
0.200	0.1990	0.0021
0.300	0.2918	0.0008

SLOPE = 0.974994
 R² = 0.999886

06/8
 CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100402

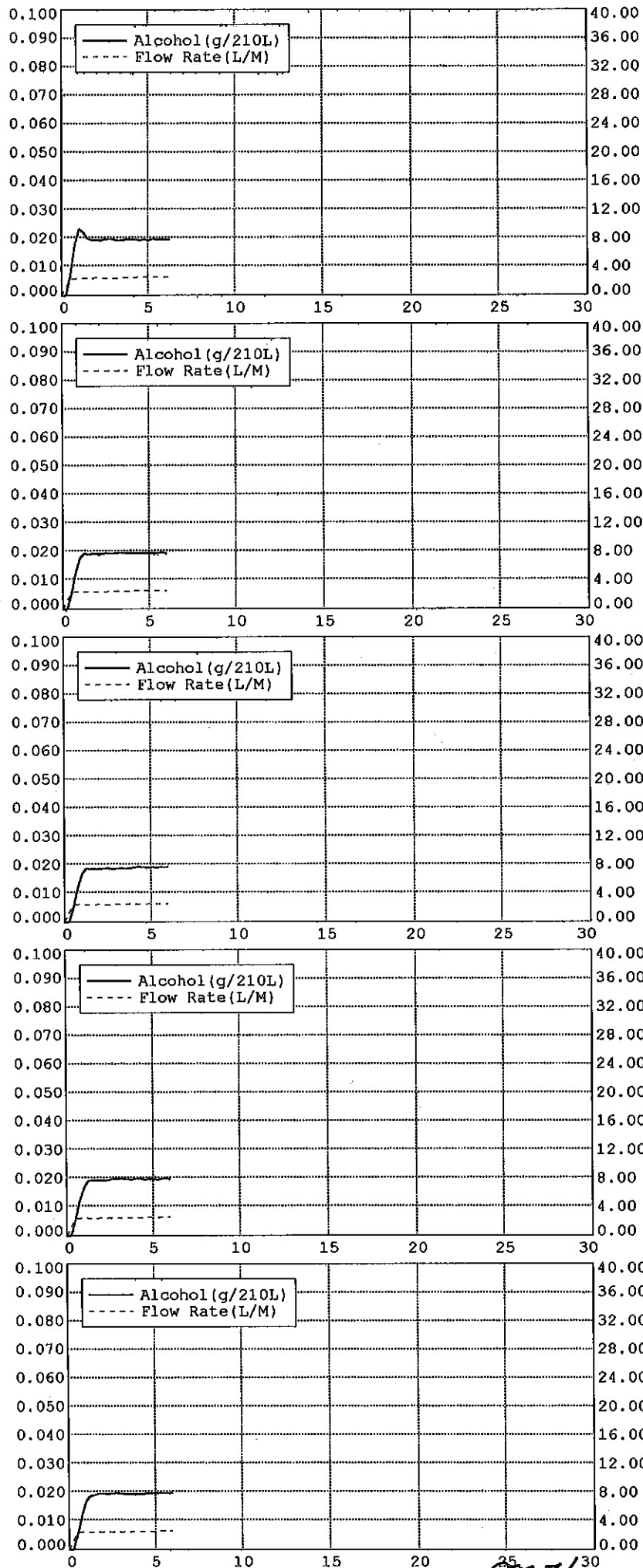
Date: 06/07/2011
Time: 08:52:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.98: 0.020
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	08:53
INTERNAL STANDARD	VERIFIED	08:53
EXTERNAL STANDARD	0.020	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.020	08:55
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.020	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.020	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.020	08:58
BLANK TEST	0.000	08:59

Average = 0.0200
Std Dev = 0.0000



CUB 7/18

LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100402

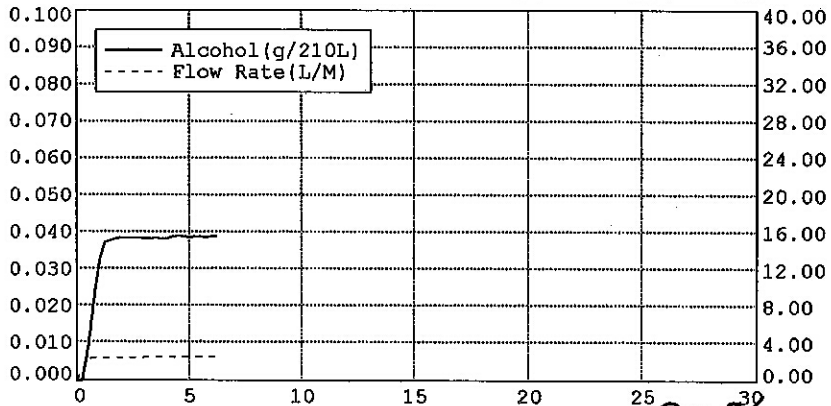
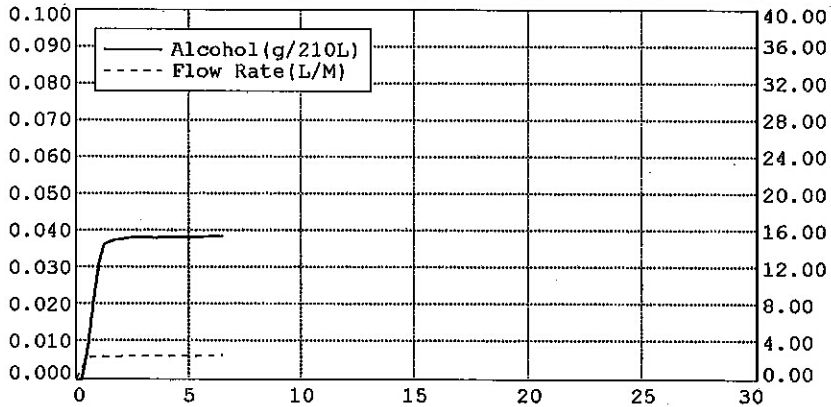
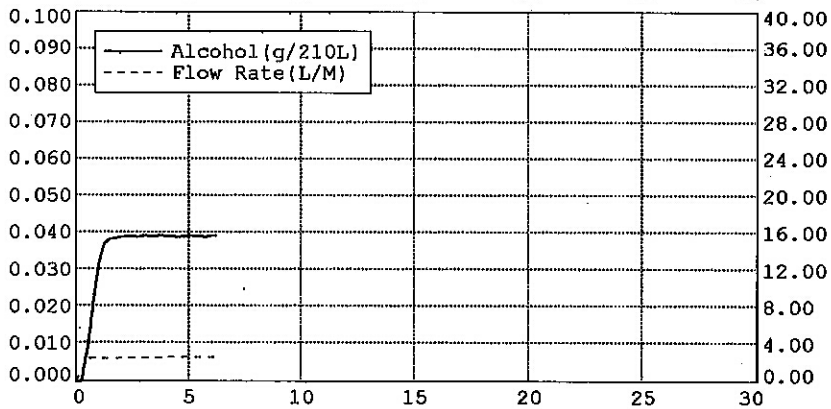
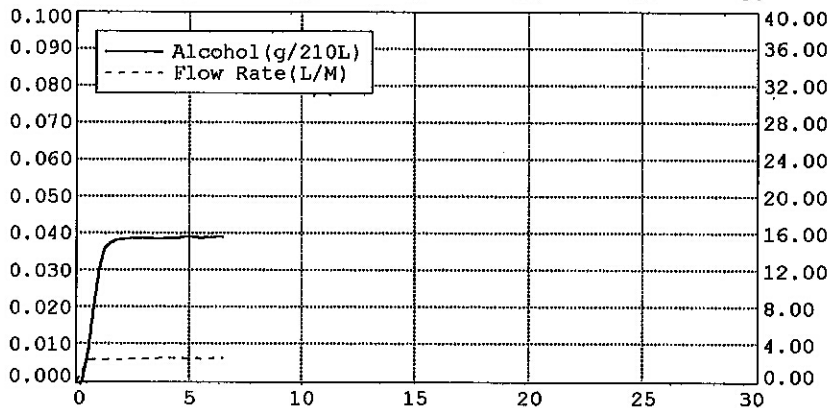
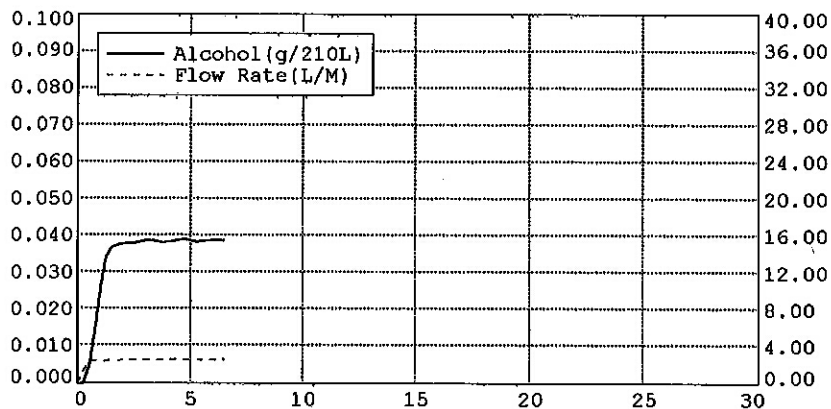
Date: 06/07/2011
Time: 08:59:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.98: 0.040
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:01
EXTERNAL STANDARD	0.039	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.040	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.040	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.039	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.040	09:06
BLANK TEST	0.000	09:06

Average = 0.0396
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100402

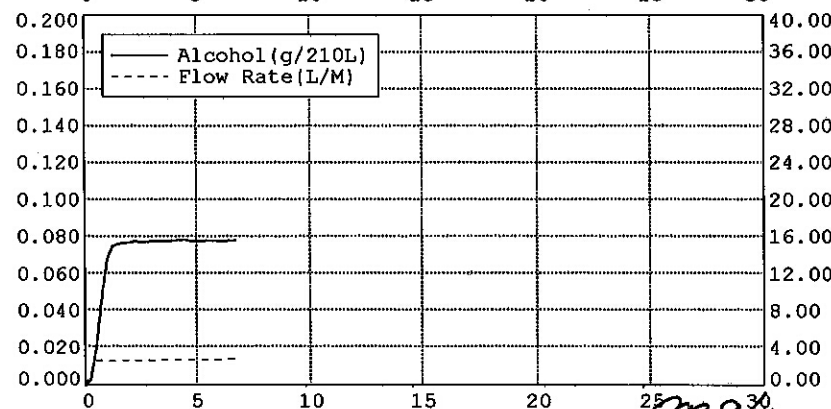
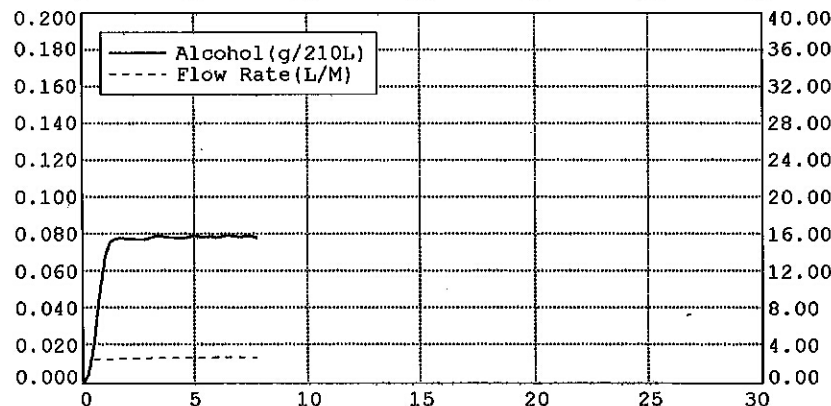
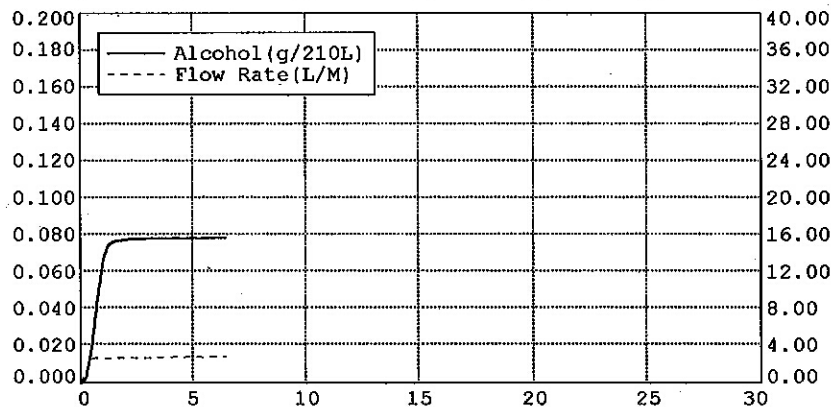
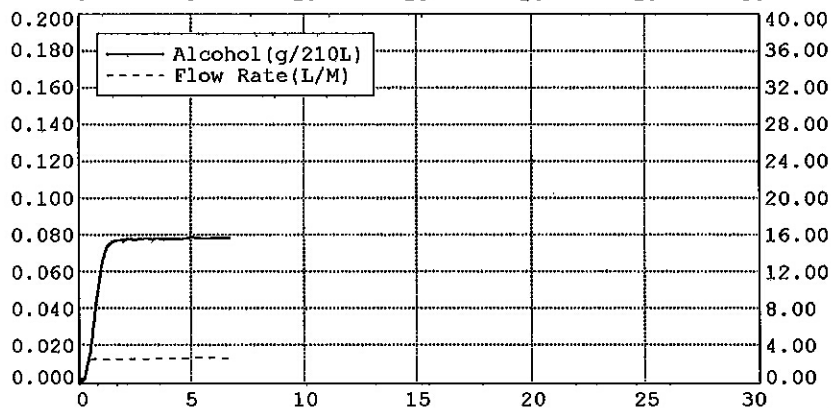
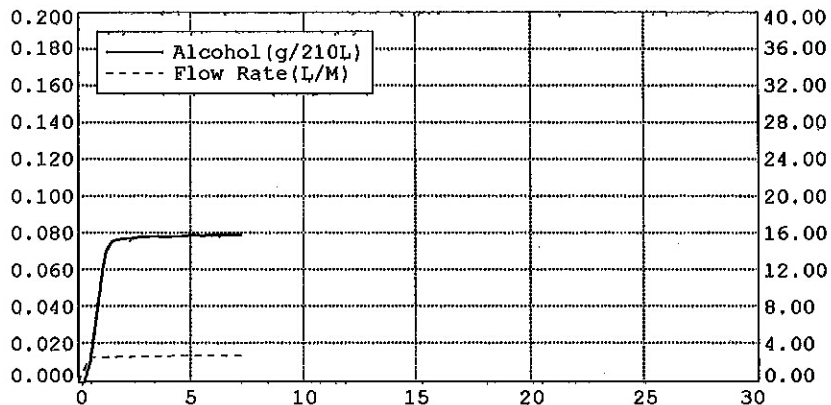
Date: 06/07/2011
Time: 09:07:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.080	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.079	09:10
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.079	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.080	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.079	09:13
BLANK TEST	0.000	09:14

Average = 0.0794
Std Dev = 0.0005



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100402

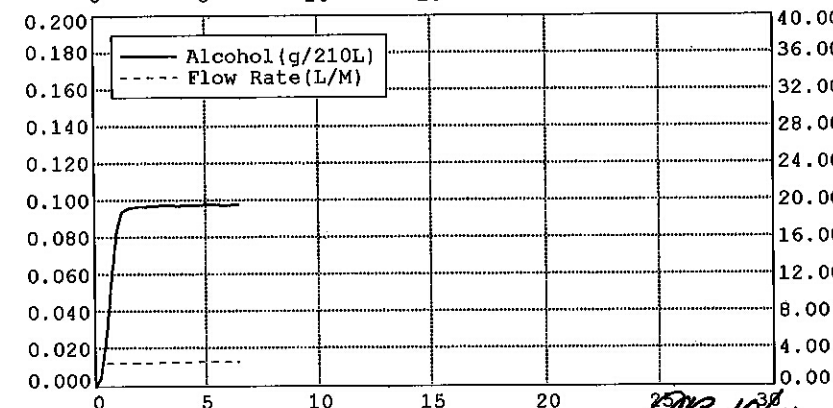
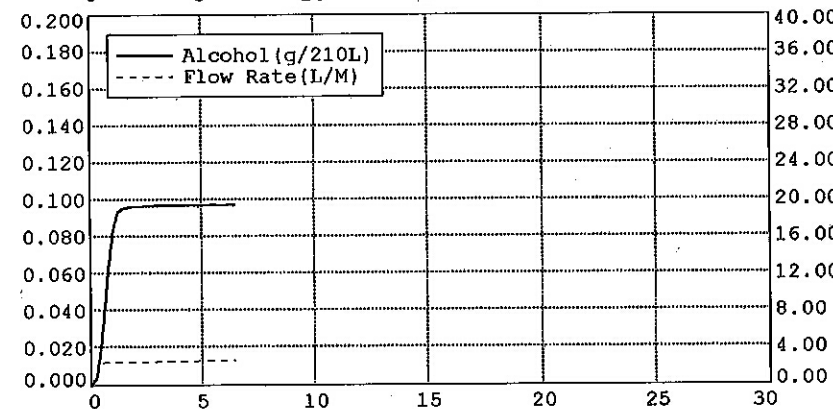
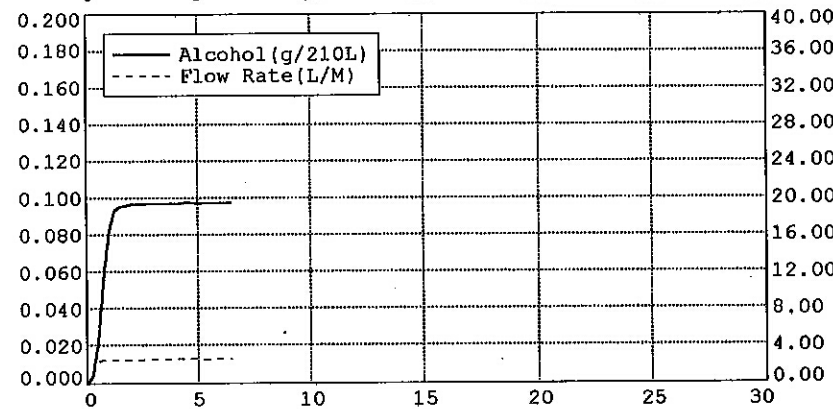
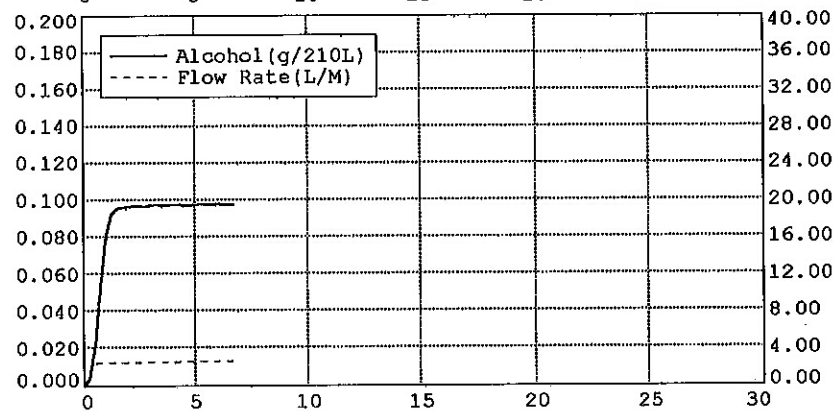
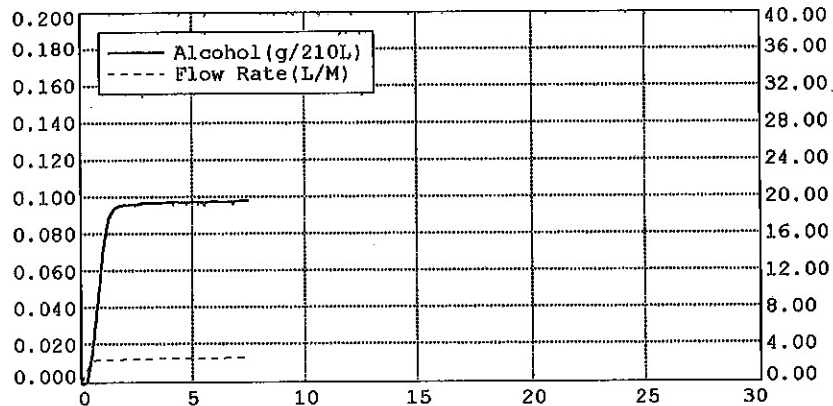
Date: 06/07/2011
Time: 09:15:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.99: 0.100
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:16
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.099	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.098	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.098	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.098	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.099	09:21
BLANK TEST	0.000	09:21

Average = 0.0984
Std Dev = 0.0005



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LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100402

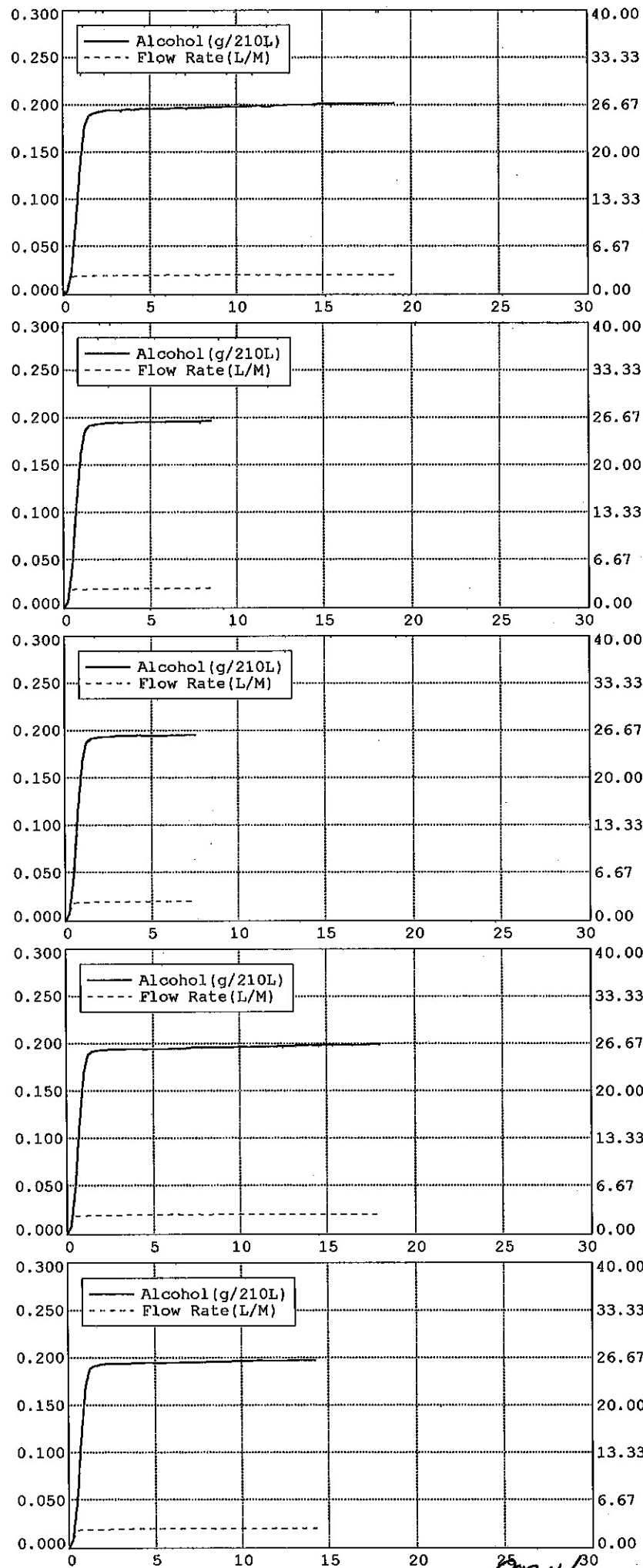
Date: 06/07/2011
Time: 09:22:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.99: 0.200
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:23
EXTERNAL STANDARD	0.202	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.197	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.197	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.200	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.199	09:29
BLANK TEST	0.000	09:30

Average = 0.1990
Std Dev = 0.0021



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03/18

LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100402

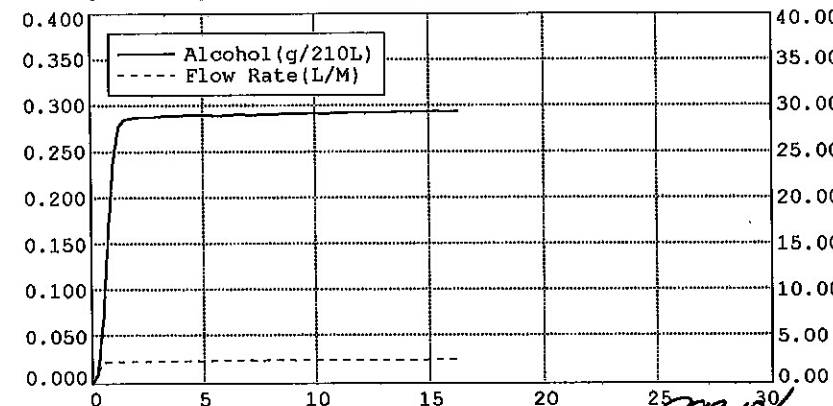
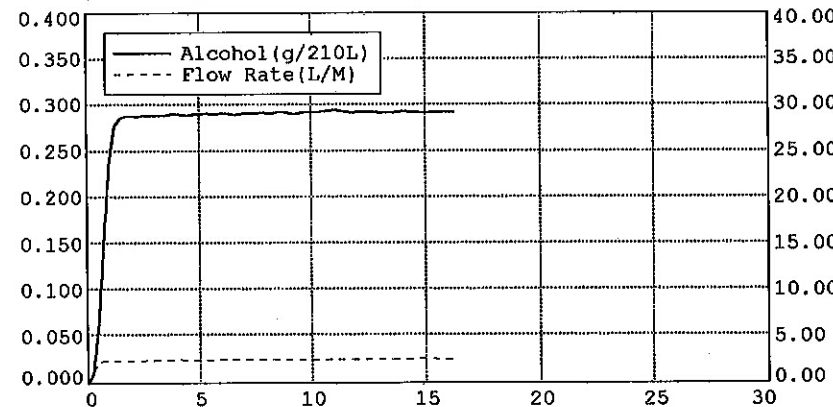
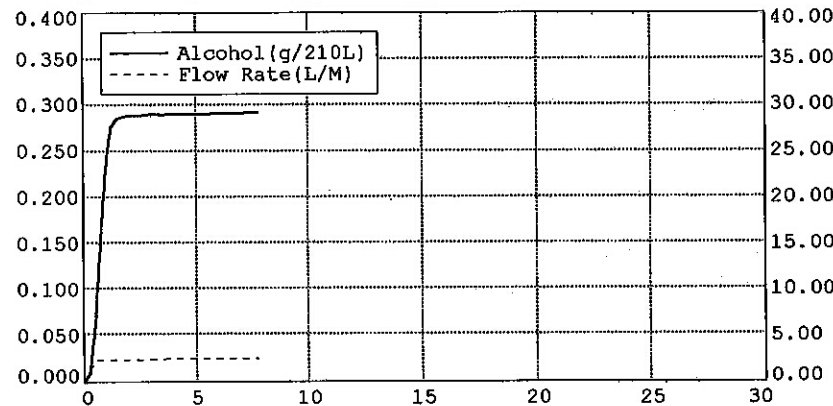
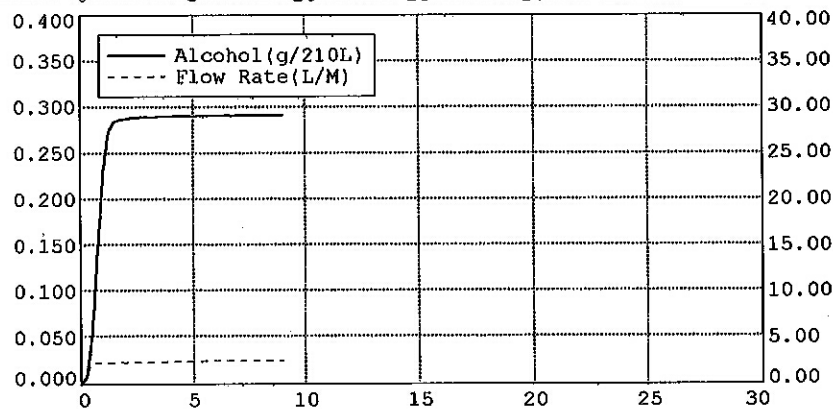
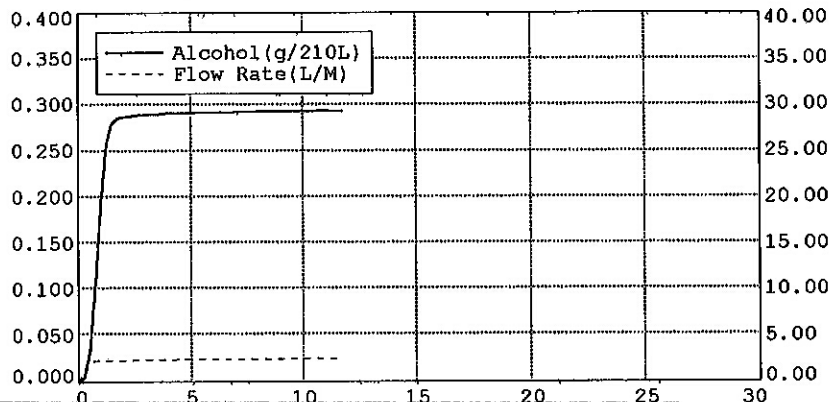
Date: 06/07/2011
Time: 09:31:46

EXTERNAL STANDARD INFORMATION

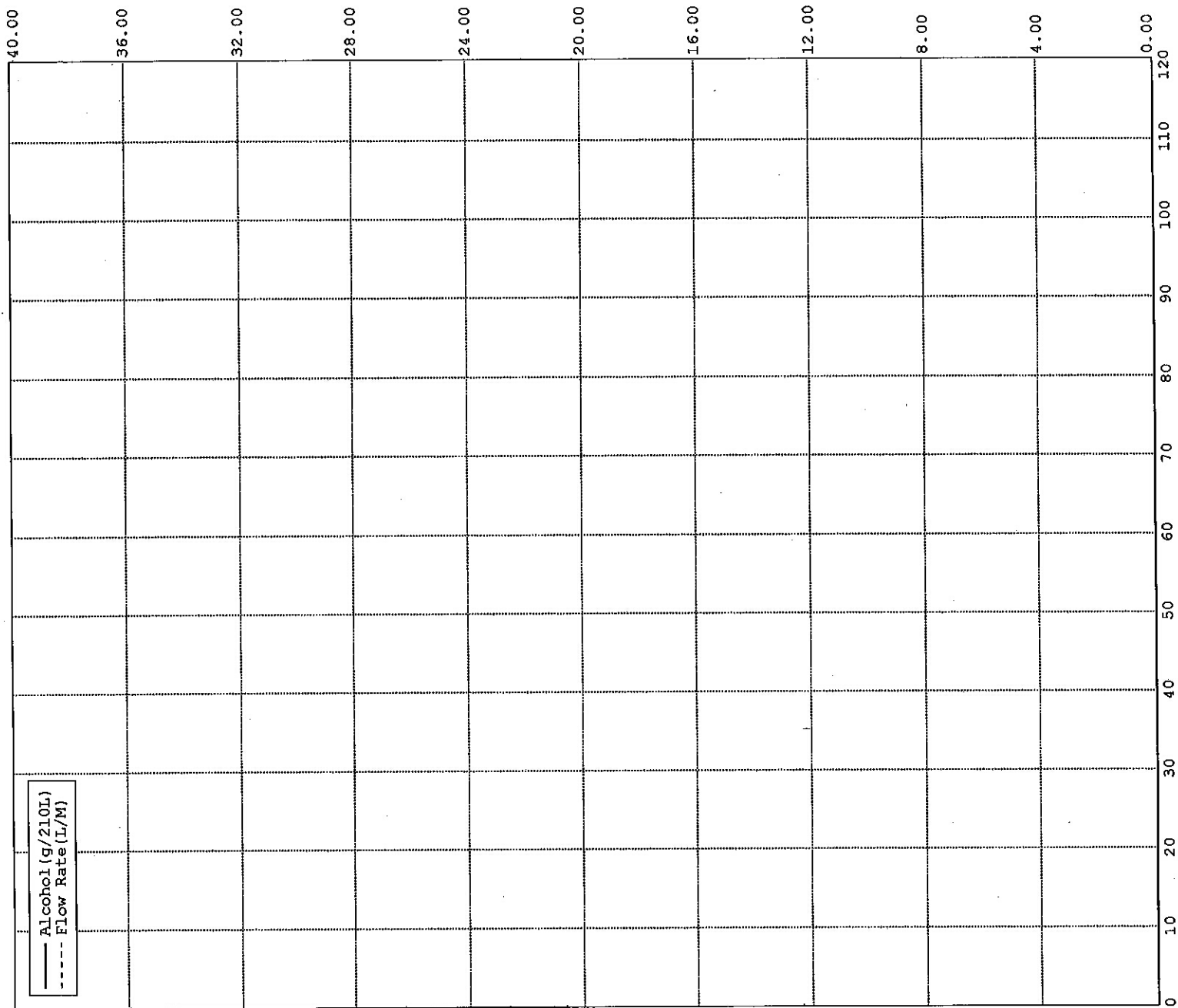
NOMINAL: 0.300
TARGET AT 29.98: 0.300
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.293	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.292	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.291	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.291	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.292	09:38
BLANK TEST	0.000	09:39

Average = 0.2918
Std Dev = 0.0008



06/13/11



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 06/07/2011
Time: 09:46:00

SUBJECT NAME:

TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:

COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:

AA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.98: 0.080

LOT #: 02511080A2

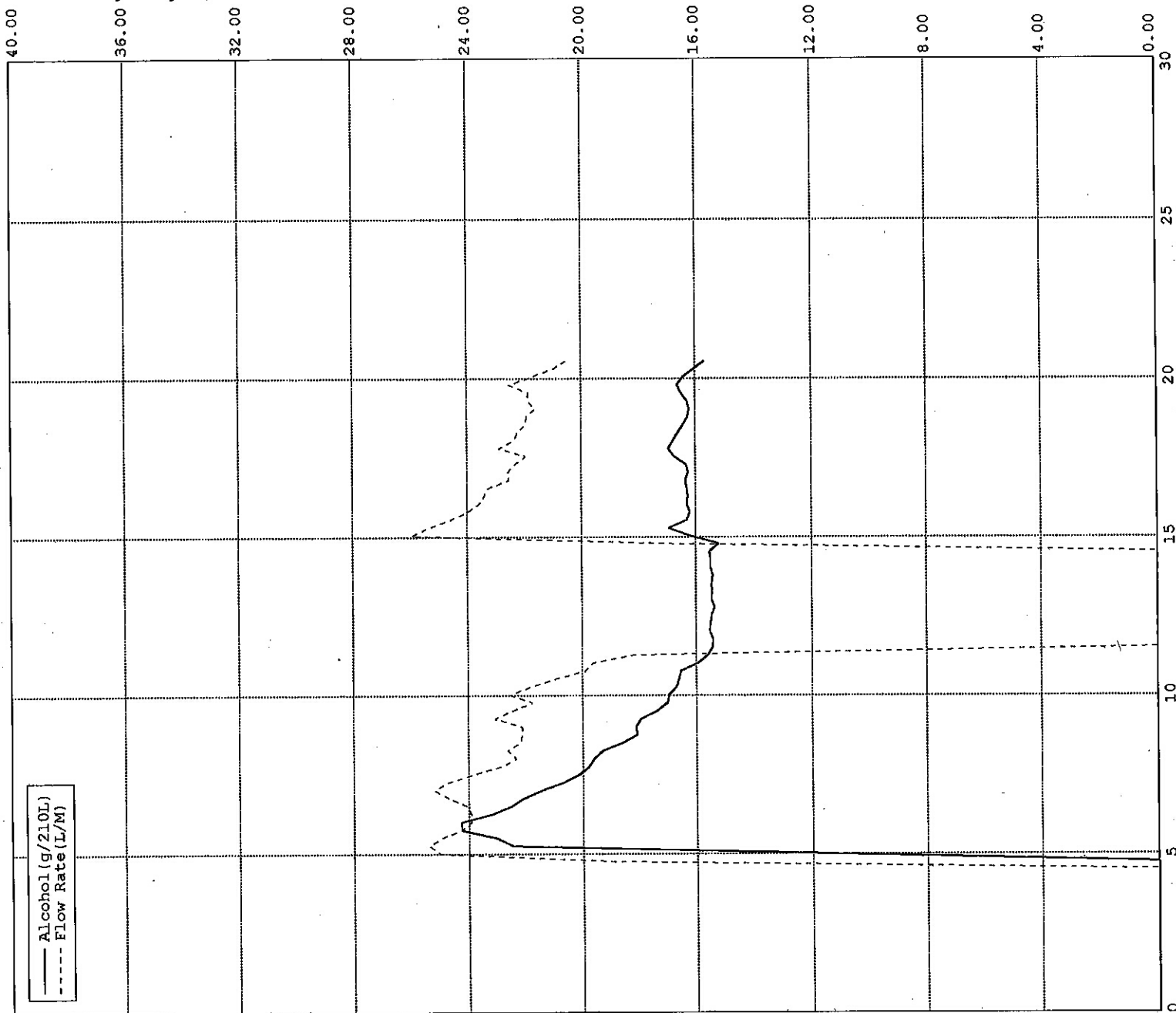
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST	PASSED	09:46
INTERNAL STANDARD	0.000	09:47
EXTERNAL STANDARD	0.081	09:47
BLANK TEST	0.000	09:48
SUBJECT SAMPLE	INCOMPLETE	09:50

CAB 13/18

CB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100402

Date: 06/07/2011
Time: 10:01:08

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

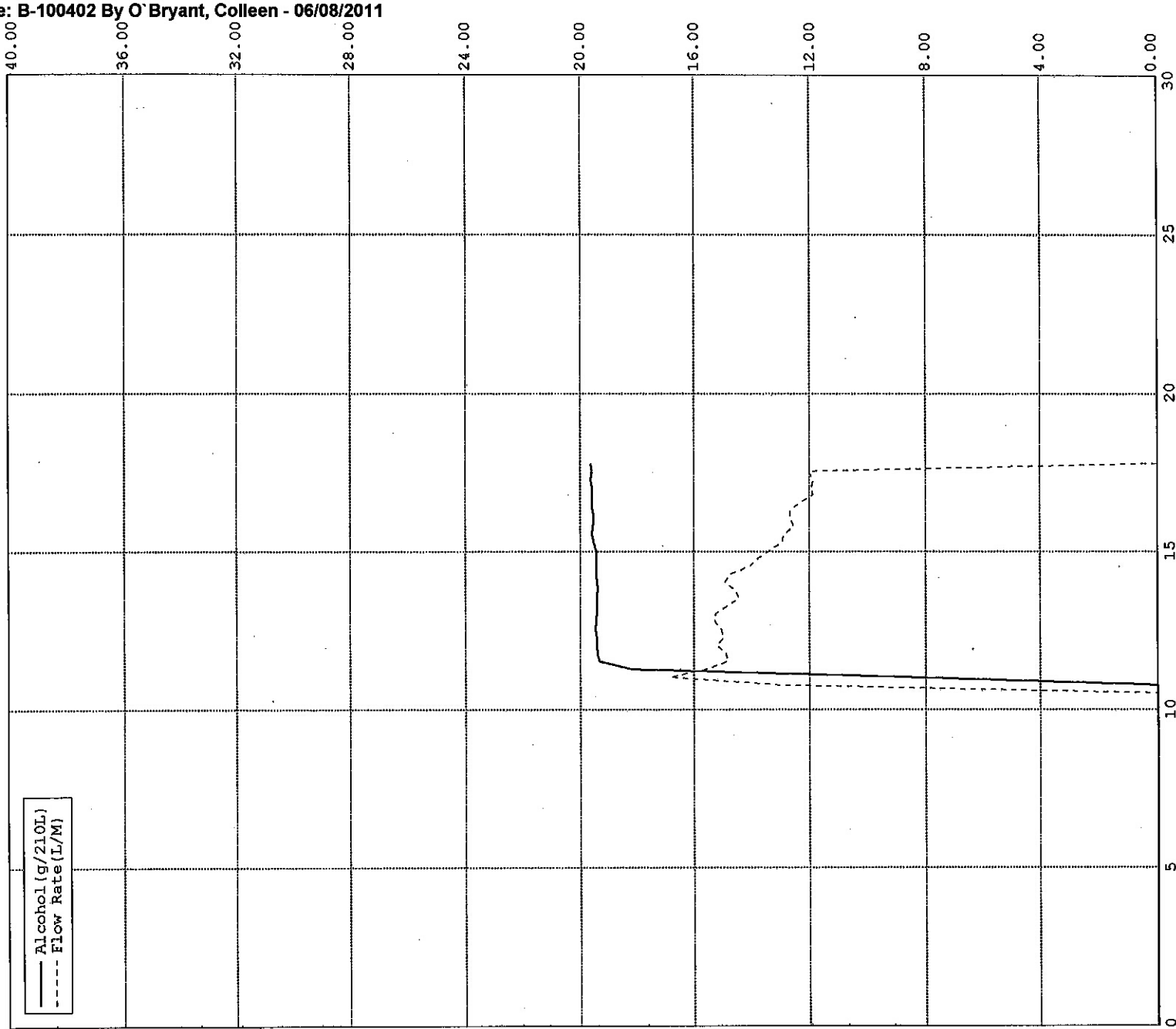
DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED 10:02
BLANK TEST	0.000 10:02
INTERNAL STANDARD	VERIFIED 10:02
EXTERNAL STANDARD	0.081 10:02
BLANK TEST	0.000 10:03
SUBJECT SAMPLE	Invalid 10:04

CB

003'4/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 06/07/2011
 Time: 10:45:53

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT - ACETON

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

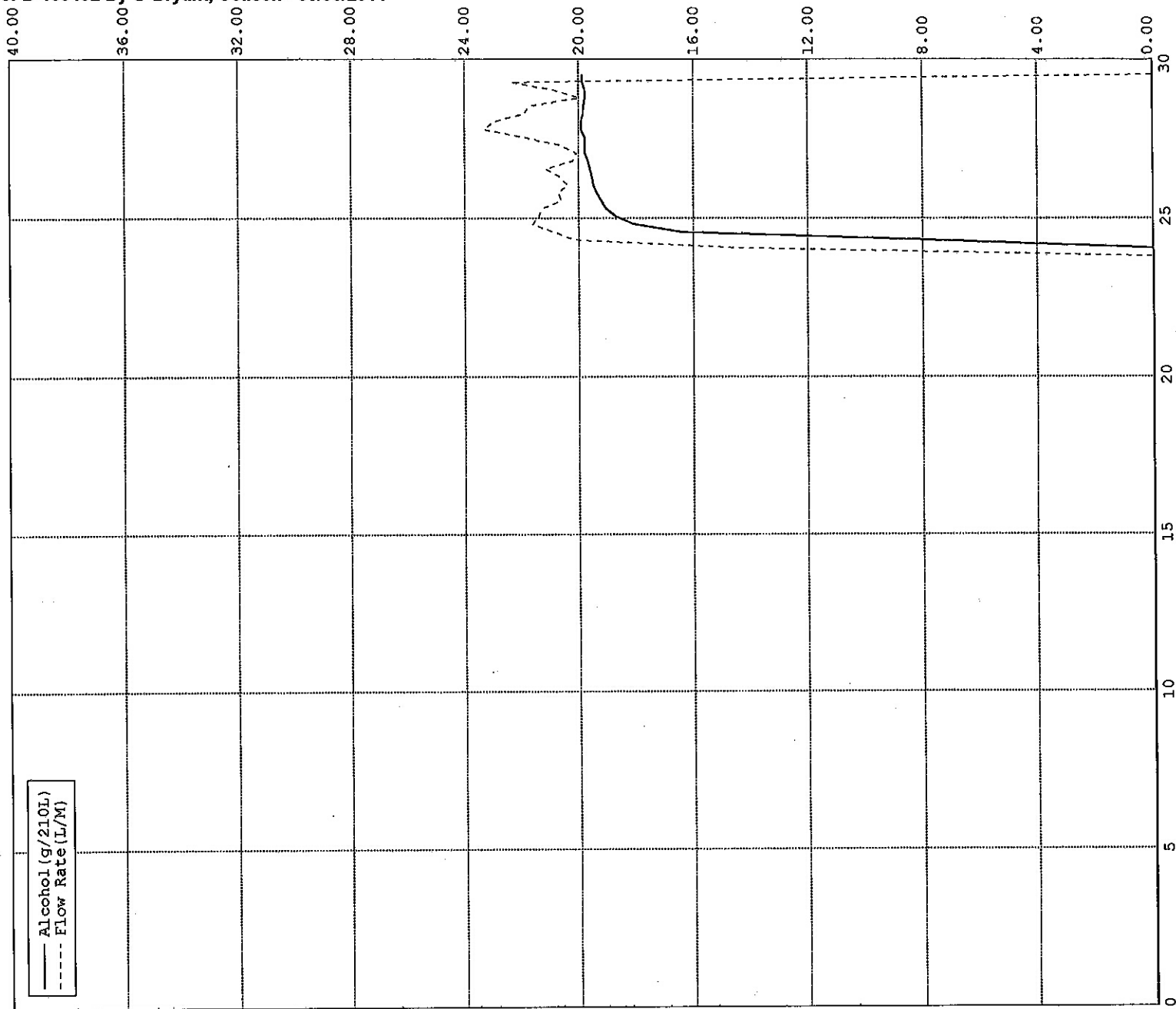
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 10:47
 BLANK TEST 0.000 10:47
 INTERNAL STANDARD VERIFIED 10:47
 EXTERNAL STANDARD 0.081 10:48
 BLANK TEST 0.000 10:49
 SUBJECT SAMPLE INTERFERENCE 10:49

CB

06/15/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 06/07/2011
Time: 10:53:34

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 30.00: 0.080

LOT #: 02511080A2

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST PASSED 10:54

INTERNAL STANDARD VERIFIED 10:54

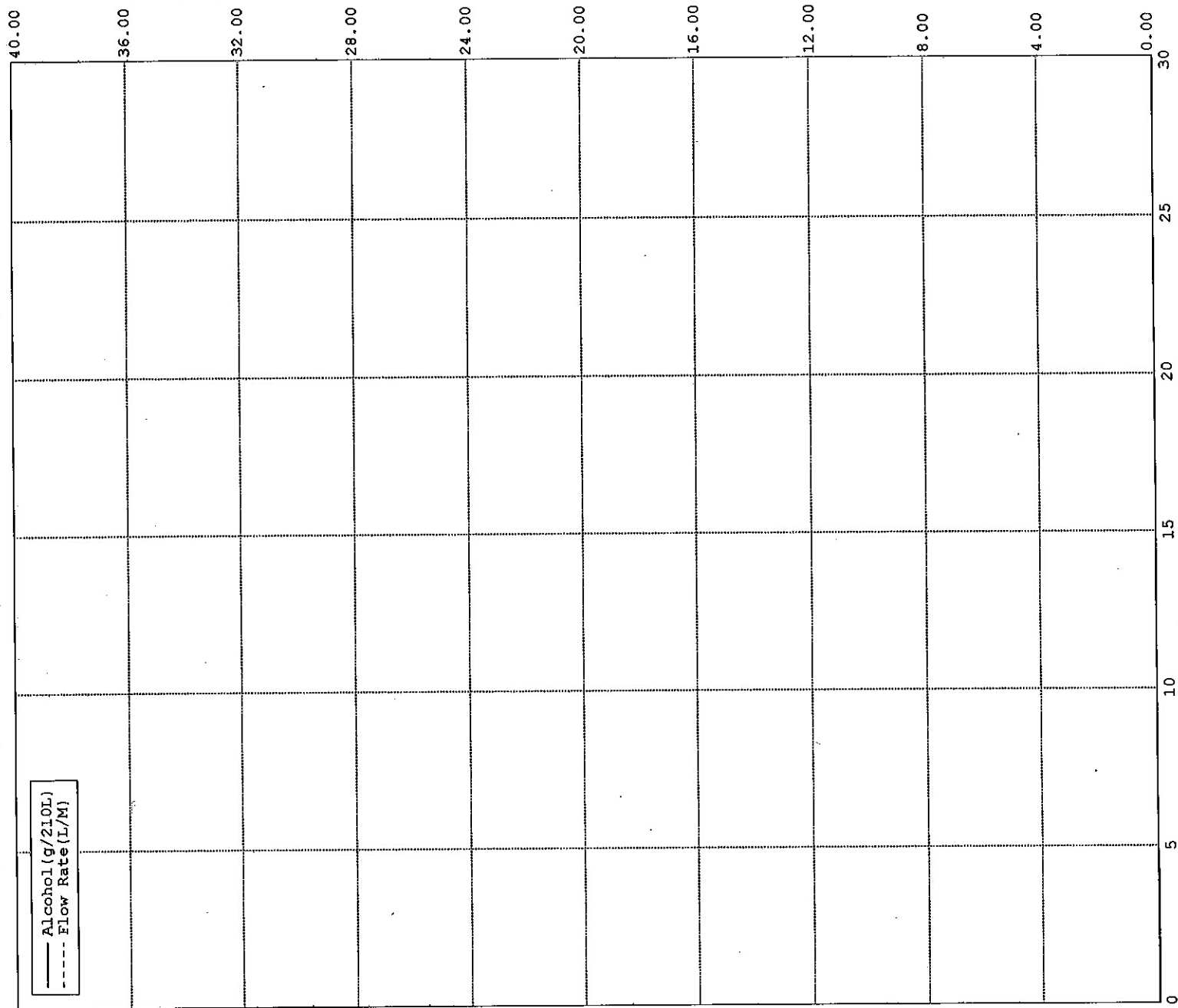
EXTERNAL STANDARD 0.080 10:55

BLANK TEST 0.000 10:56

SUBJECT SAMPLE INTERFERENCE 10:56

CB

06/08/11



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 06/07/2011
Time: 09:54:49

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAAI

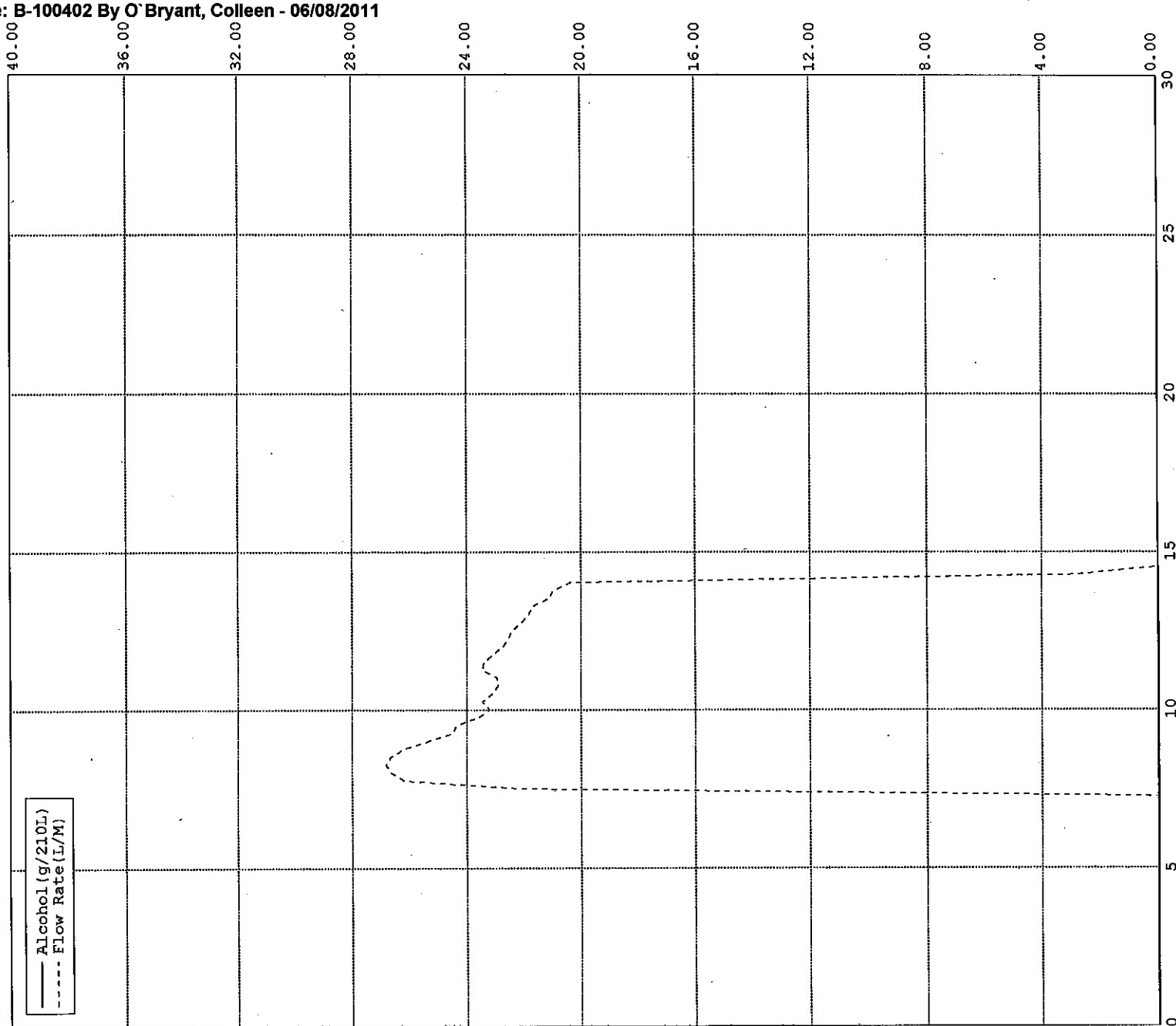
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 09:56
BLANK TEST 0.000 09:56
INTERNAL STANDARD VERIFIED 09:57
EXTERNAL STANDARD 0.080 09:57
BLANK TEST 0.000 09:58

RFI Detected

06/17/11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 06/07/2011
 Time: 10:58:50

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

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	10:59
BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
EXTERNAL STANDARD	0.080	11:00
BLANK TEST	0.000	11:01
SUBJECT SAMPLE	0.000	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.080	11:02
BLANK TEST	0.000	11:03

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Final page for report

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12/10/2013