

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100384 Analyst Brandi Start Date 5/14/13
Diagnostic Test (attached)

1. Voltage Checks

- a. Adjust voltages, if needed
- i. Lamp (2.6V Maximum)
 - ii. Bias (80V)
 - iii. Cooler (2.0V Maximum)
 - iv. Chopper Frequency
 - v. Detector Voltage (-0.100V to 0.100V)
- b. Set RFI
- c. Adjust barometer reading to match NIST traceable barometer
- d. Adjust volume setting, if needed (1.5L +/- 0.1L)
- e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1100 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 00813020 A1 Exp 03/01/15
- ii. 0.040g/210L Mnf ILMO Lot 00813040 A2 Exp 03/01/15
- iii. 0.080g/210L Mnf ILMO Lot 22612080 A1 Exp 03/01/15 ^{BMB} 09/01/2014
- iv. 0.100g/210L Mnf ILMO Lot 00813100 A3 Exp 03/01/15
- v. 0.200g/210L Mnf Guth Lot 1120 Exp 7/19/13
 - 1. Simulator S/N DR4162 Date Calibrated 10/09/2012
- vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/21/14
 - 1. Simulator S/N DR4163 Date Calibrated 10/08/12

5. Functional Tests (attached)

- a. Incomplete b. Invalid
- c. Interference

- i. Acetone - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
 - 1. Simulator S/N DR5298 Date Calibrated 10/8/12
- ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
 - 1. Simulator S/N SD1202 Date Calibrated 10/9/12
- iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
 - 1. Simulator S/N SD1176 Date Calibrated 10/9/12

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program N/A

End Date 5/15/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 05/14/2013
Time: 09:05:29

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.7°C PASSED

PUMP INFO

Flow Rate = 4.619 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: 100384

Date: 05/14/2013
Time: 9:10 AM

Temperatures (°C)

Sample Cell: 48.0°C
Breath Tube: 45.9°C

Current Barometer 29.1 in
Volume (Ltr) 1.54

Settings

Lamp: 1.62 V
Bias: 80 V
Cooler: 1.54 V
Chopper: 523 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.009 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100384

Date: 04/26/2011
Time: 08:39:23

OPERATOR NAME:
COLLSEN S O'BRYAN
CERTIFICATE #: 6237

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

Ca = 0.1000
CAL = 0.964532 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0829 0.0500 <= Xq < 0.2000
a21 = 1.181030 1.050 <= a21 < 1.300
a31 = 0.525071 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 05/14/2013
Time: 09:12:10

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

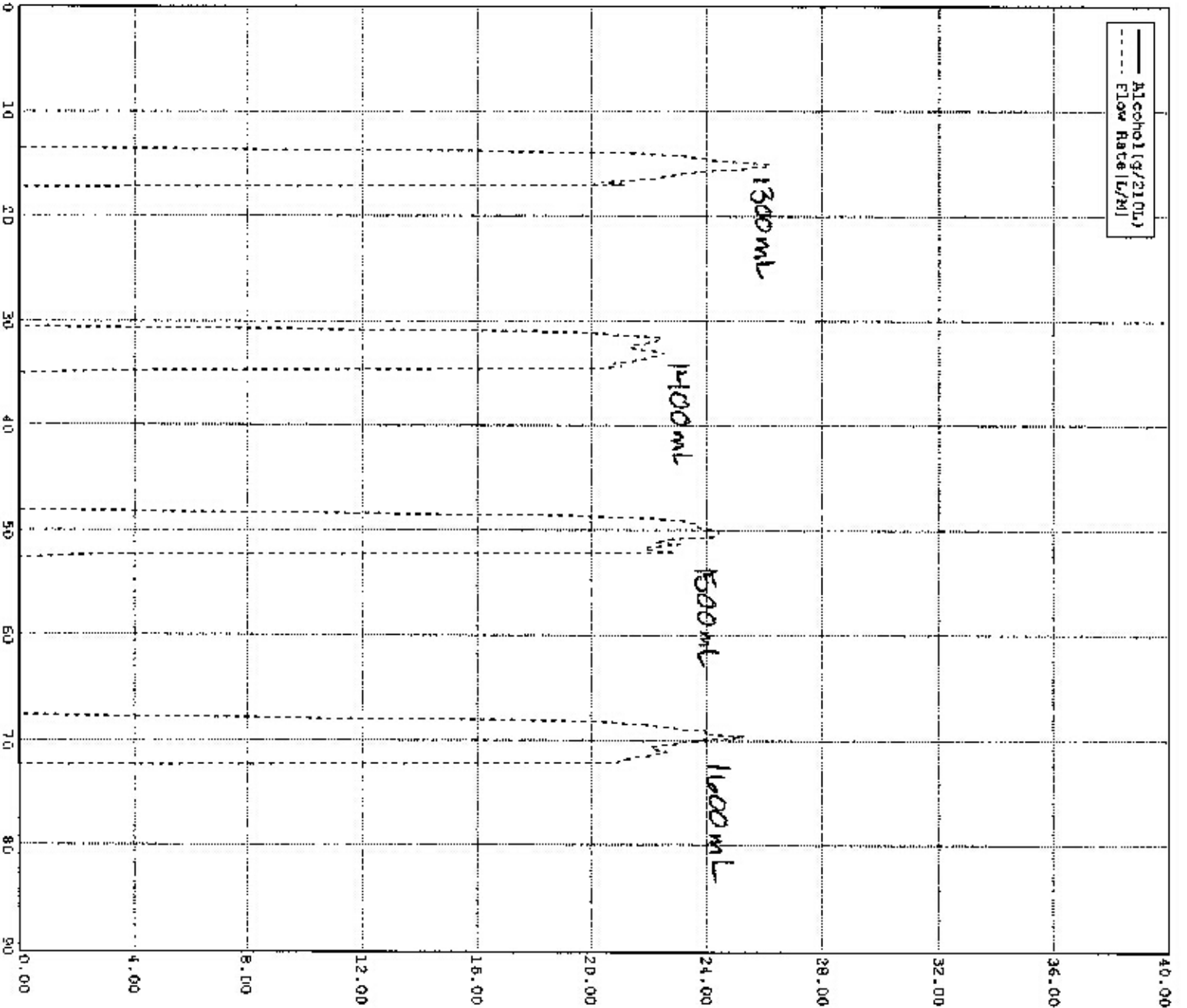
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
AAA1
CASE/REPORT: MIN VOLUME
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.07: 0.077
LOT #: 22612080AL
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	09:13
BLANK TEST	0.000	09:13
INTERNAL STANDARD	VERIFIED	09:13
EXTERNAL STANDARD	0.078	09:13
BLANK TEST	0.000	09:14
SUBJECT SAMPLE	0.000	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.078	09:17
BLANK TEST	0.000	09:18

BSMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATA MASTER dnt: 100384

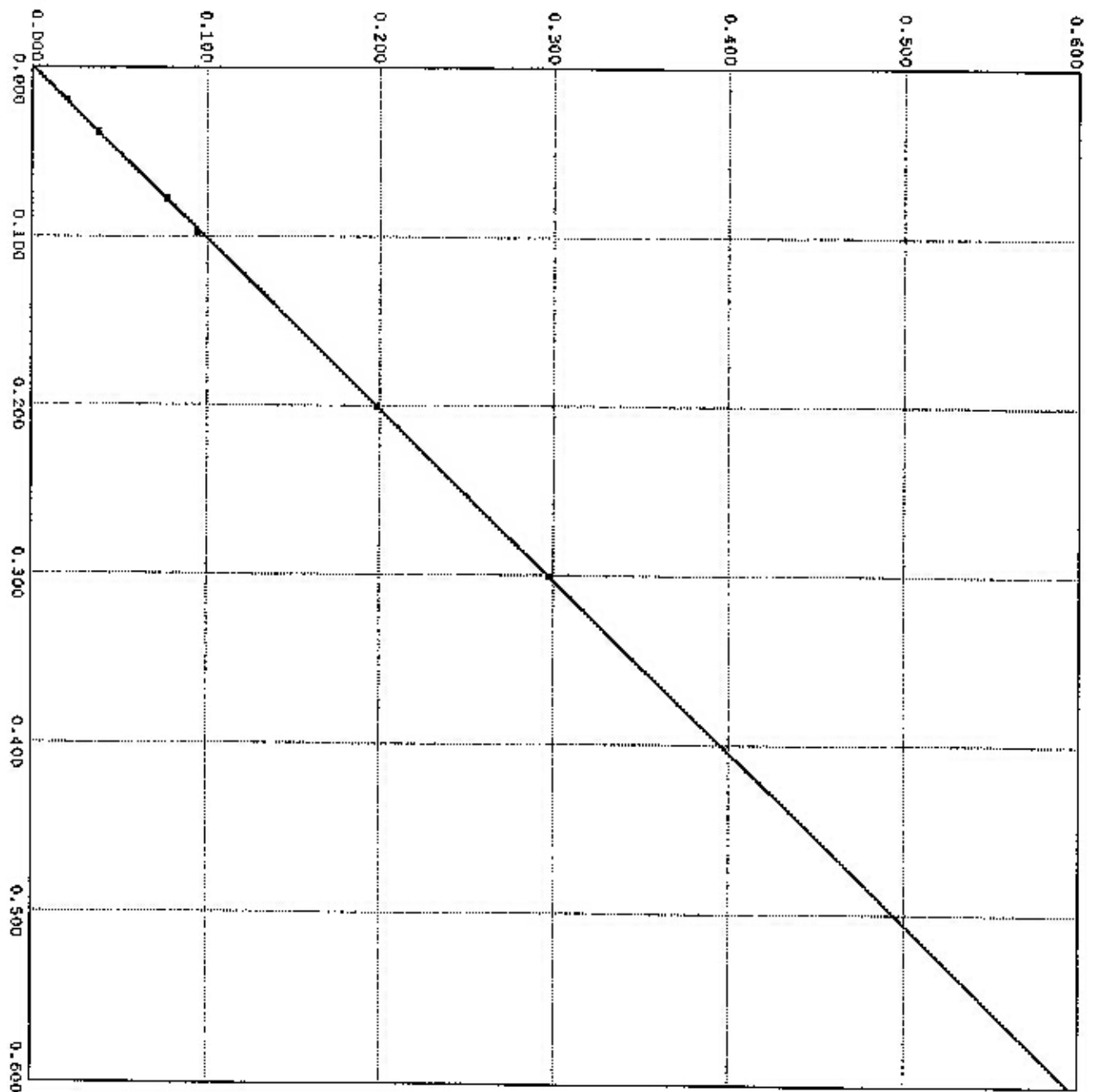
Date: 05/14/2013
 Time: 09:54:24

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0002
0.038	0.0390	0.0002
0.077	0.0780	0.0003
0.097	0.0952	0.0001
0.200	0.1991	0.0004
0.300	0.2983	0.0002

SLOPE = 0.989593
 R² = 0.999922

BBMB



LINEARITY CHECK: Control Test 1

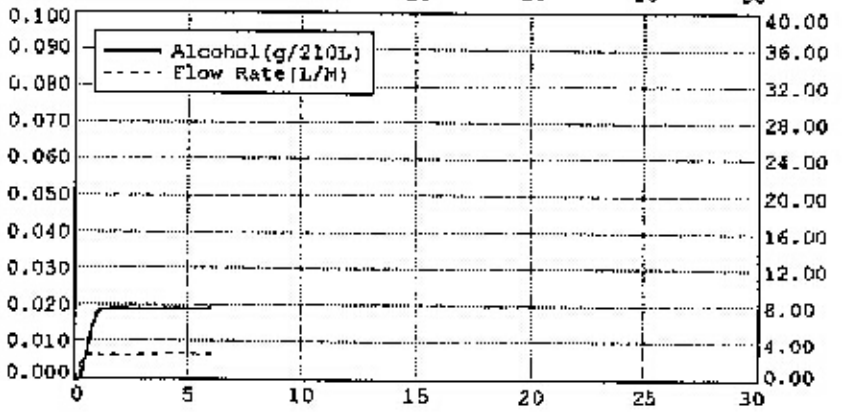
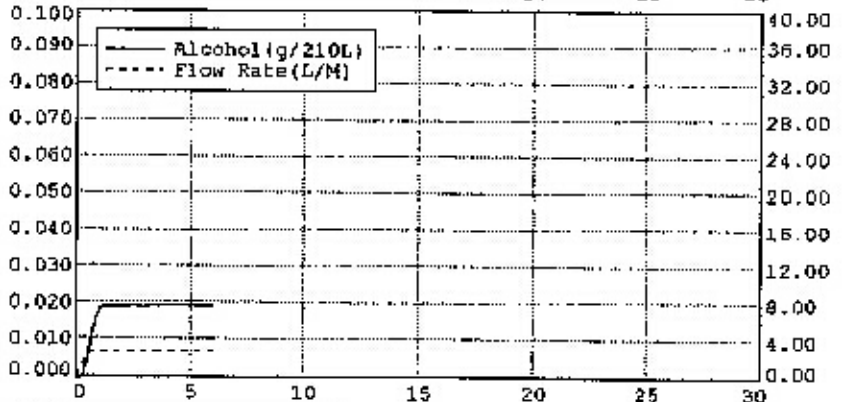
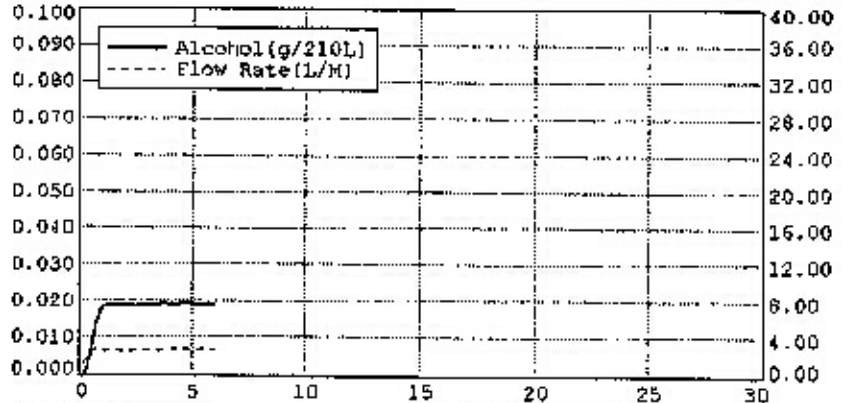
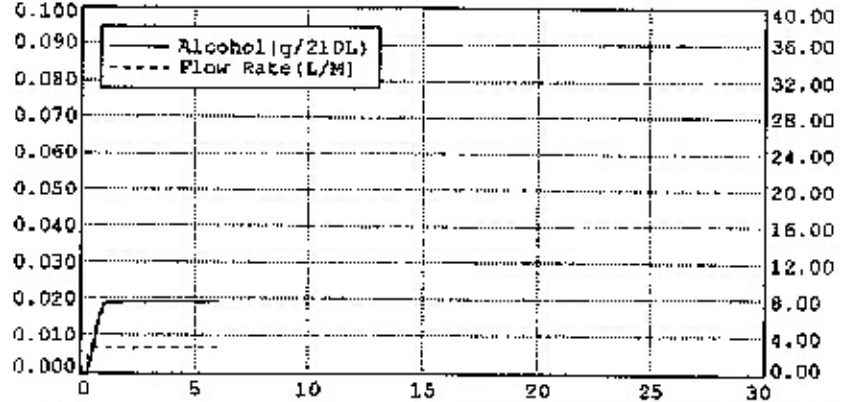
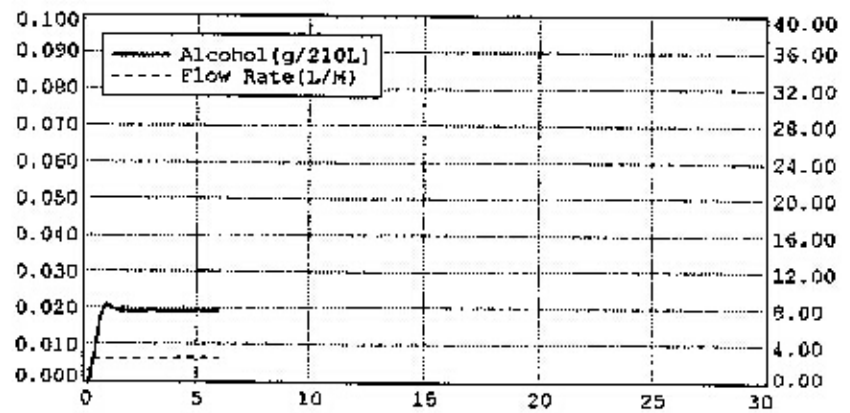
Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 05/14/2013
 Time: 09:54:26

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.07: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:55
EXTERNAL STANDARD	0.020	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.020	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.020	09:58
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.020	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.020	10:00
BLANK TEST	0.000	10:01

Average = 0.0205
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100384

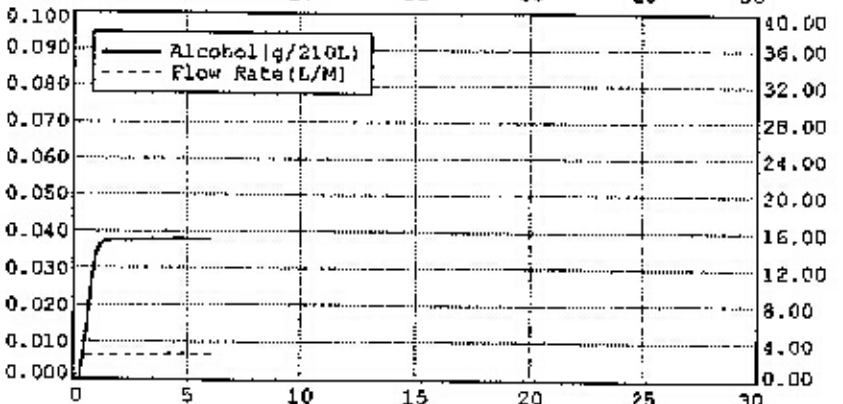
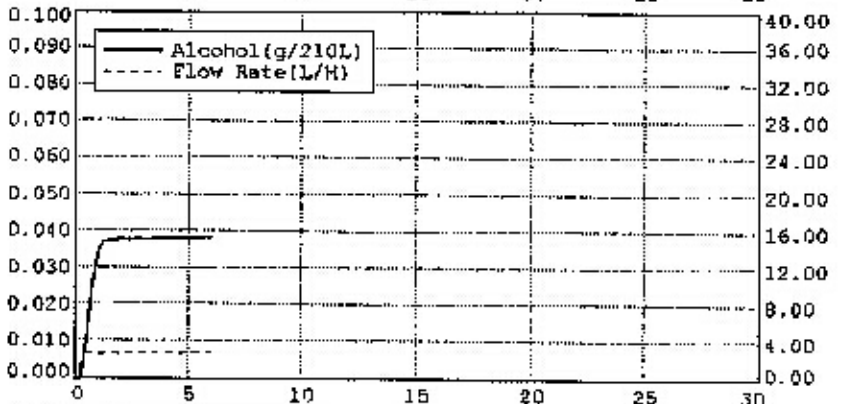
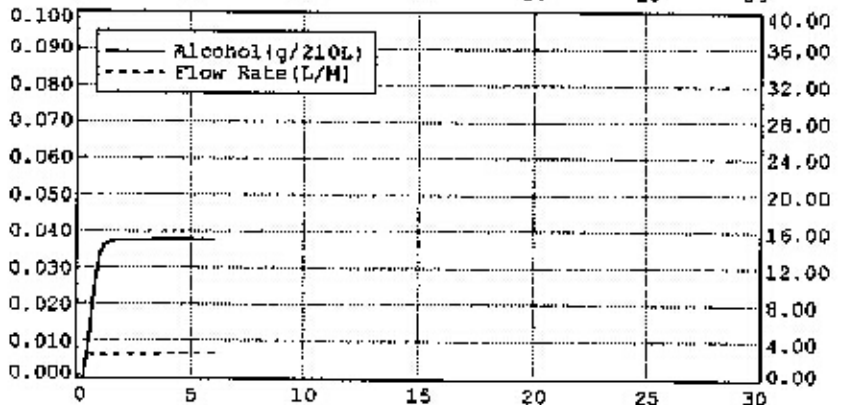
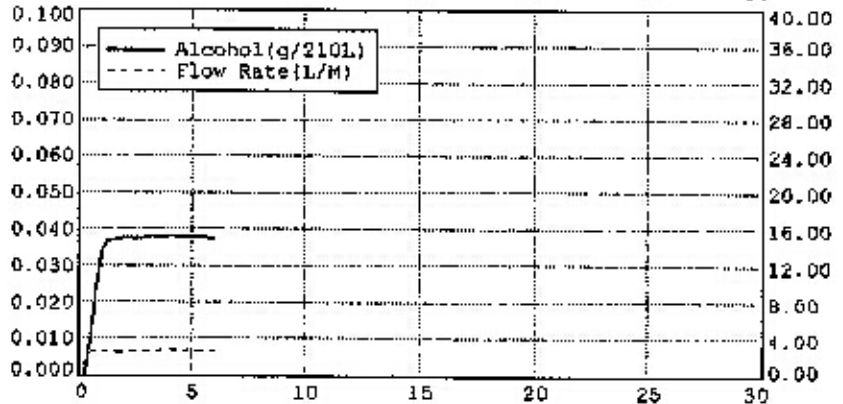
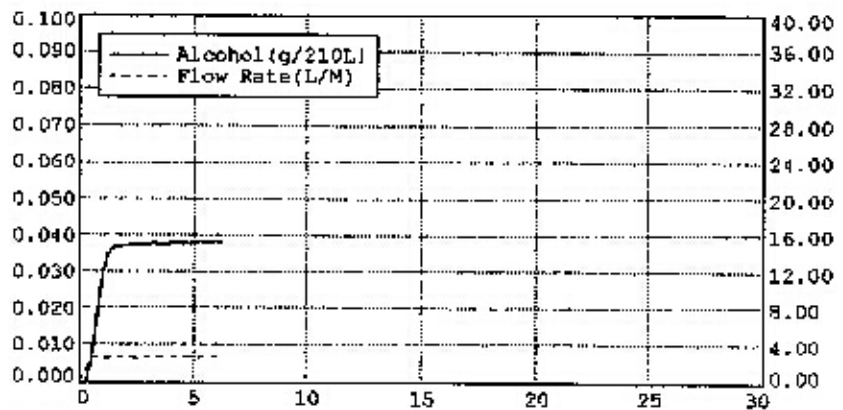
Date: 05/14/2013
 Time: 10:01:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.07: 0.038
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:03
INTERNAL STANDARD	VERIFIED	10:03
EXTERNAL STANDARD	0.039	10:04
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.039	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.038	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.038	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.039	10:08
BLANK TEST	0.000	10:09

Average = 0.0390
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100384

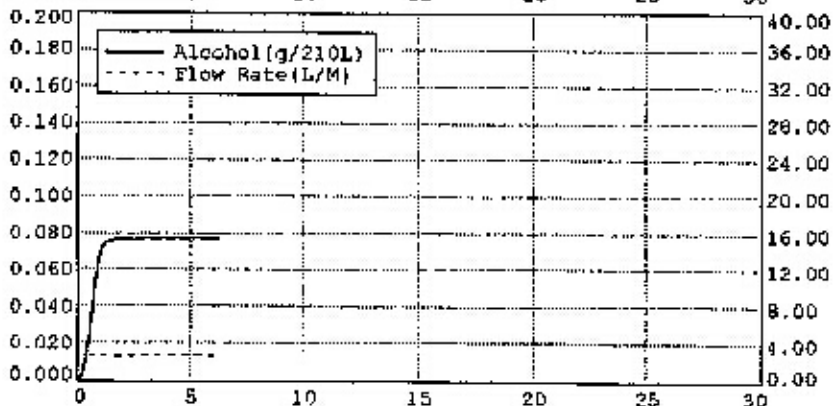
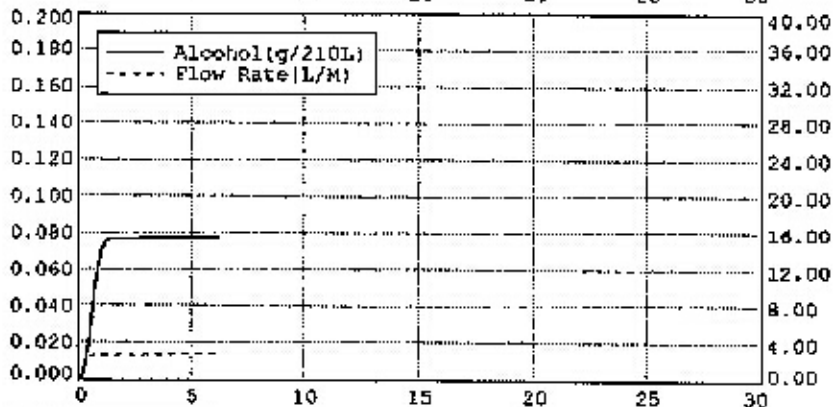
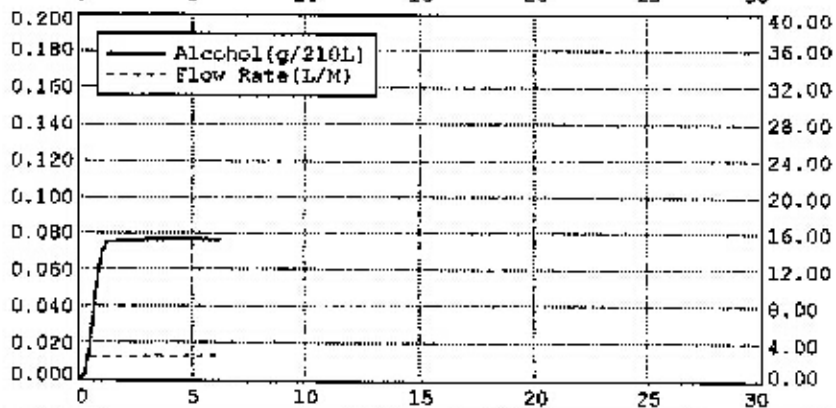
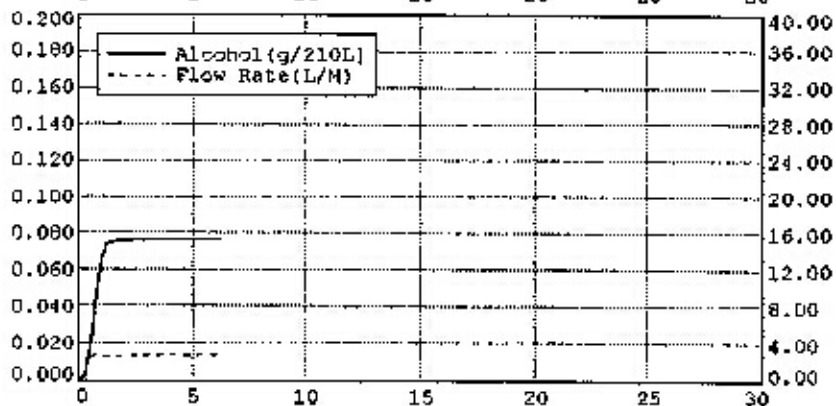
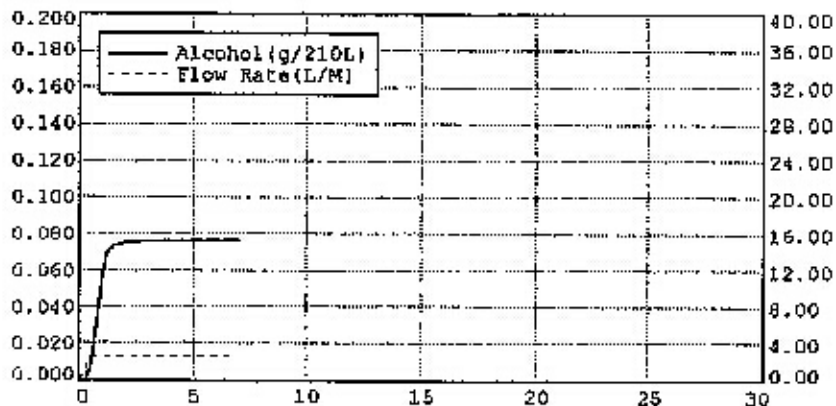
Date: 05/14/2013
 Time: 10:15:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.07: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
EXTERNAL STANDARD	0.077	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.077	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.078	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.078	10:20
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.078	10:21
BLANK TEST	0.000	10:22

Average = 0.0780
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100384

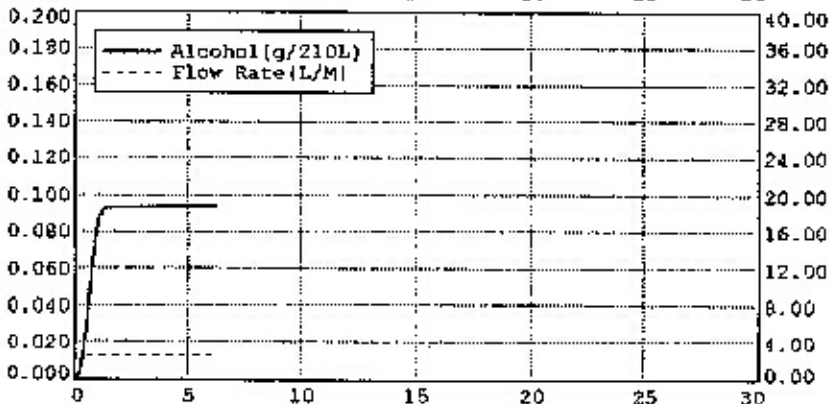
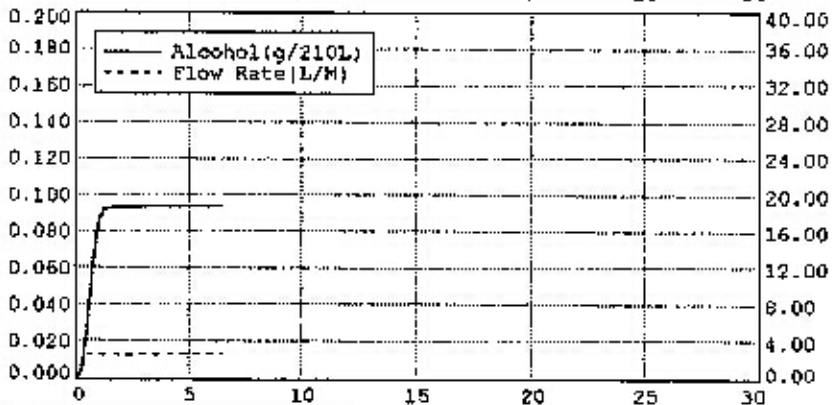
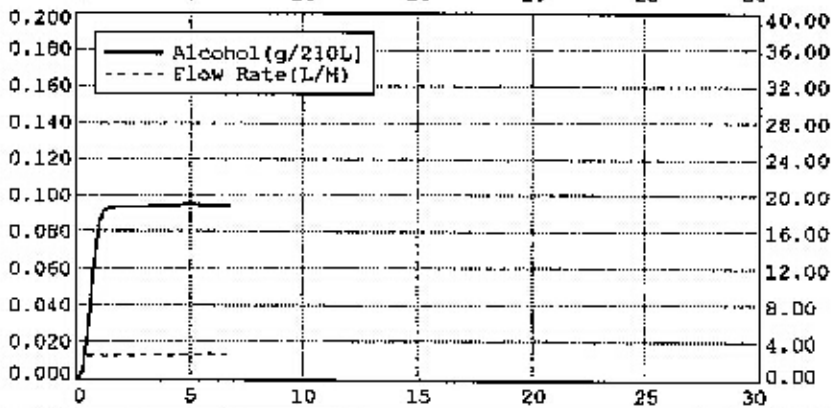
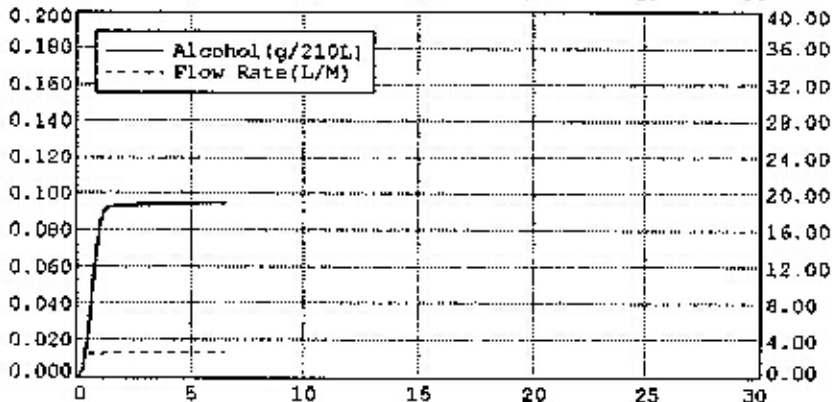
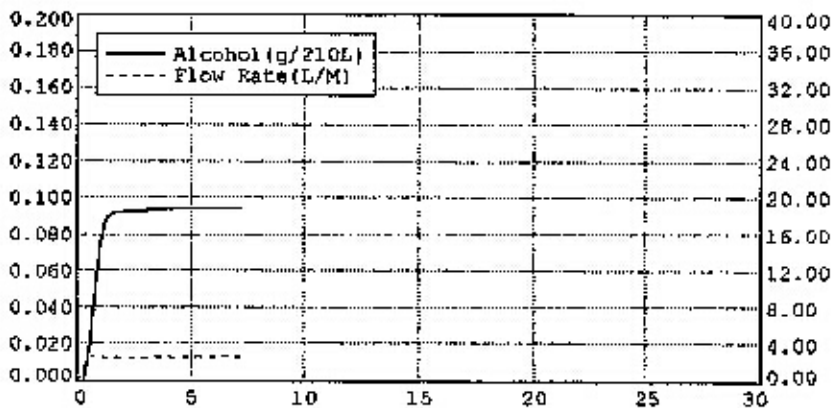
Date: 05/14/2013
Time: 10:23:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.07: 0.097
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
EXTERNAL STANDARD	0.095	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.095	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.095	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.095	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.095	10:32
BLANK TEST	0.000	10:33

Average = 0.0952
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER chnt: 100384

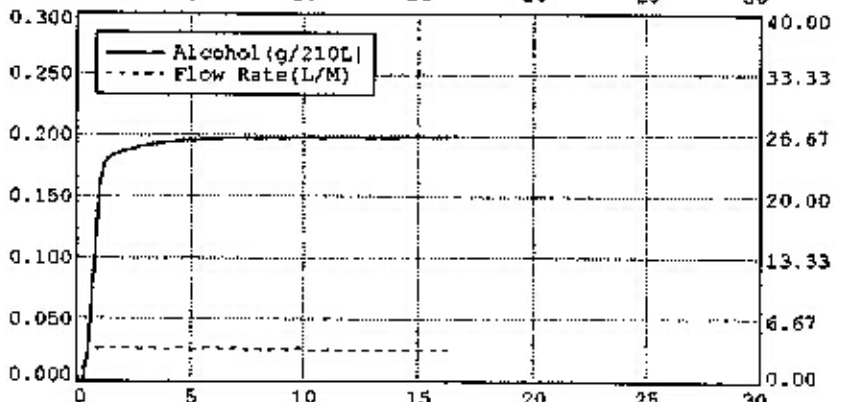
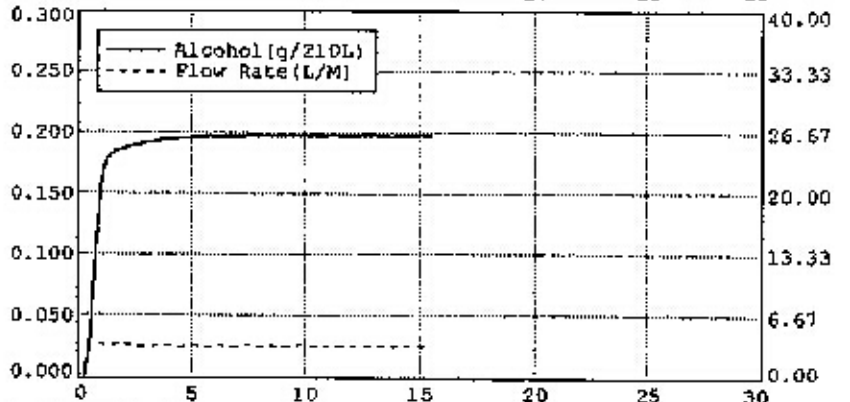
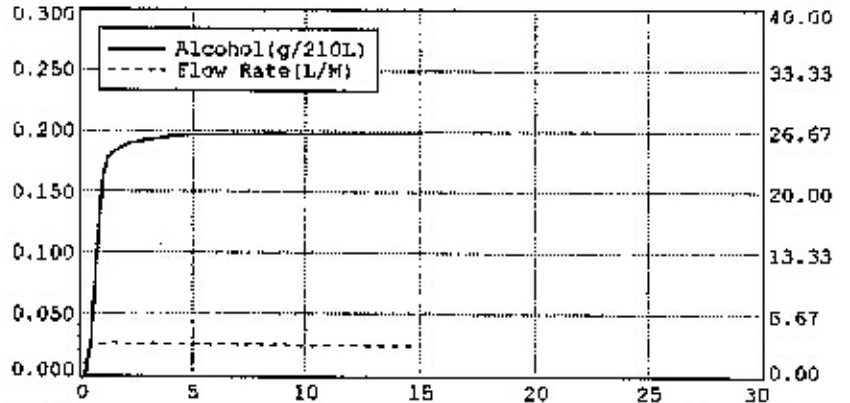
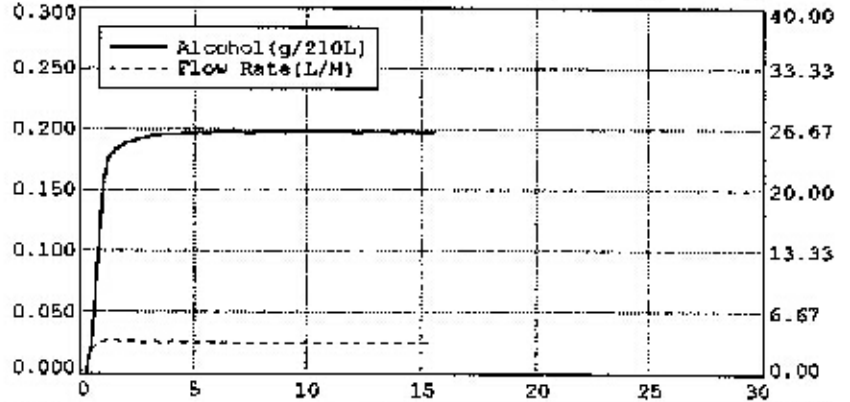
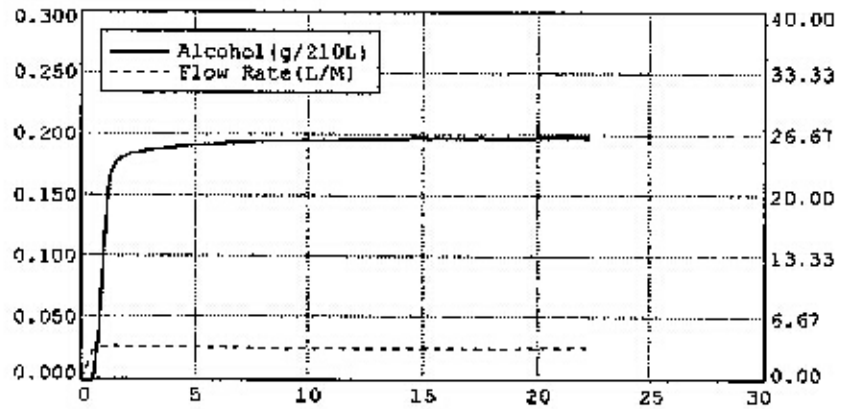
Date: 05/14/2013
 Time: 10:41:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.198	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.199	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.199	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.199	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.199	10:48
BLANK TEST	0.000	10:49

Average = 0.1991
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100384

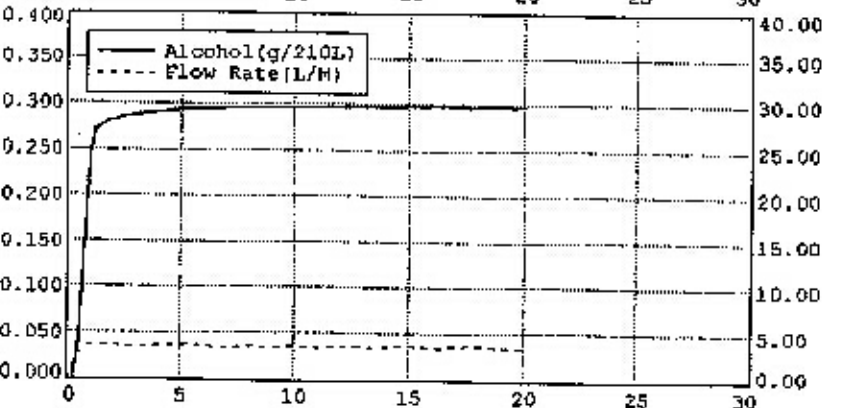
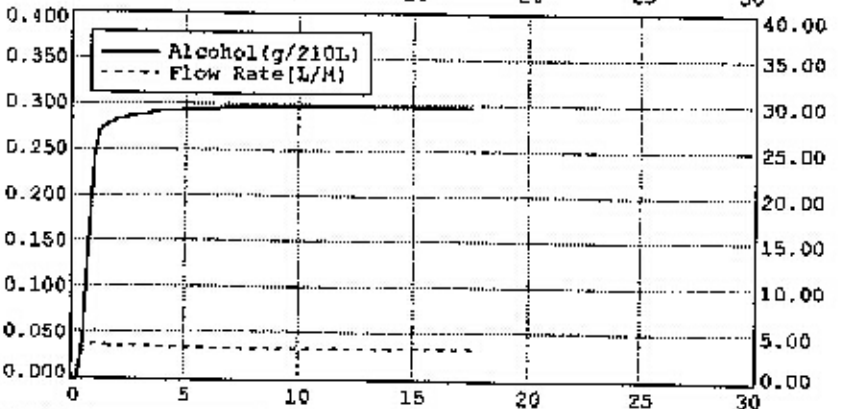
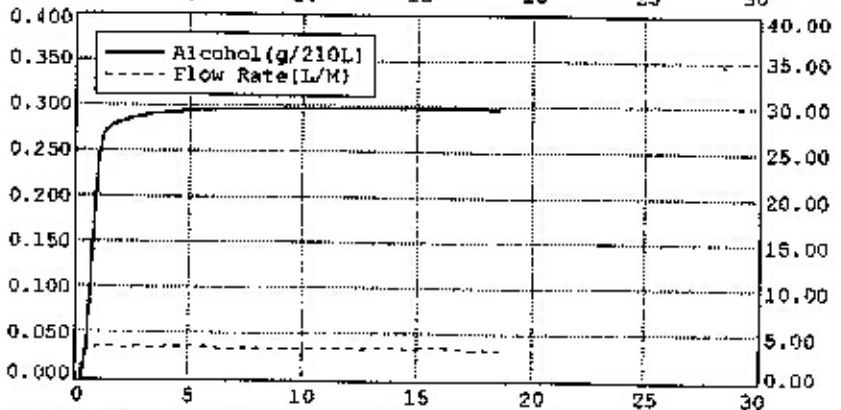
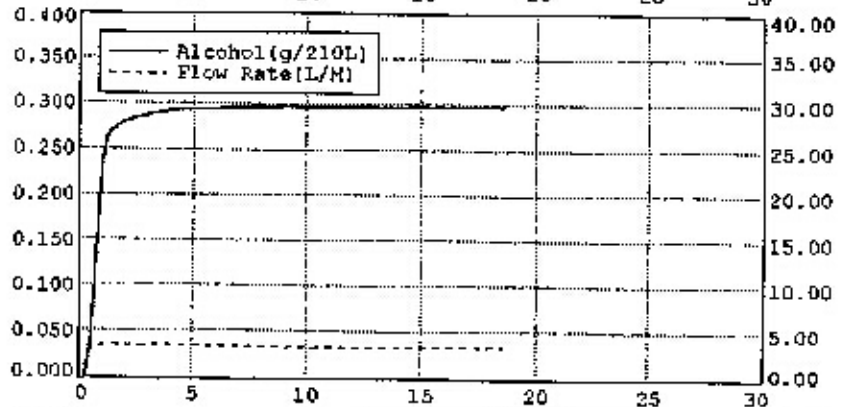
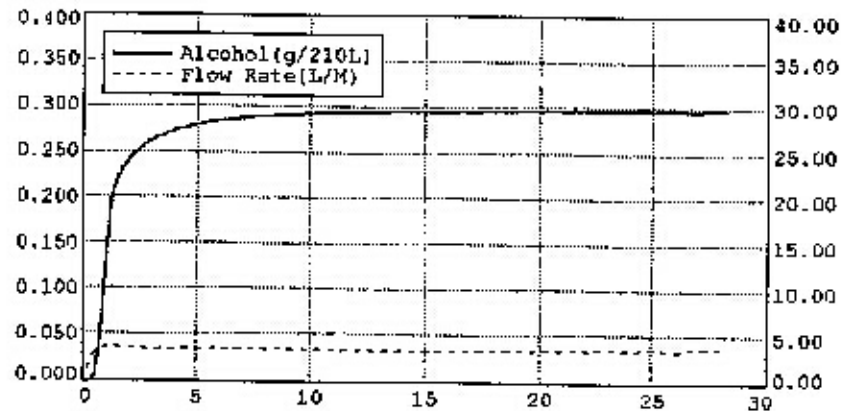
Date: 05/14/2013
Time: 10:56:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	10:57
INTERNAL STANDARD	VERIFIED	10:57
EXTERNAL STANDARD	0.298	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.298	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.298	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.298	11:02
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.298	11:03
BLANK TEST	0.000	11:04

Average = 0.2983
Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# 100384

Date: 05/14/2013
 Time: 12:45:52

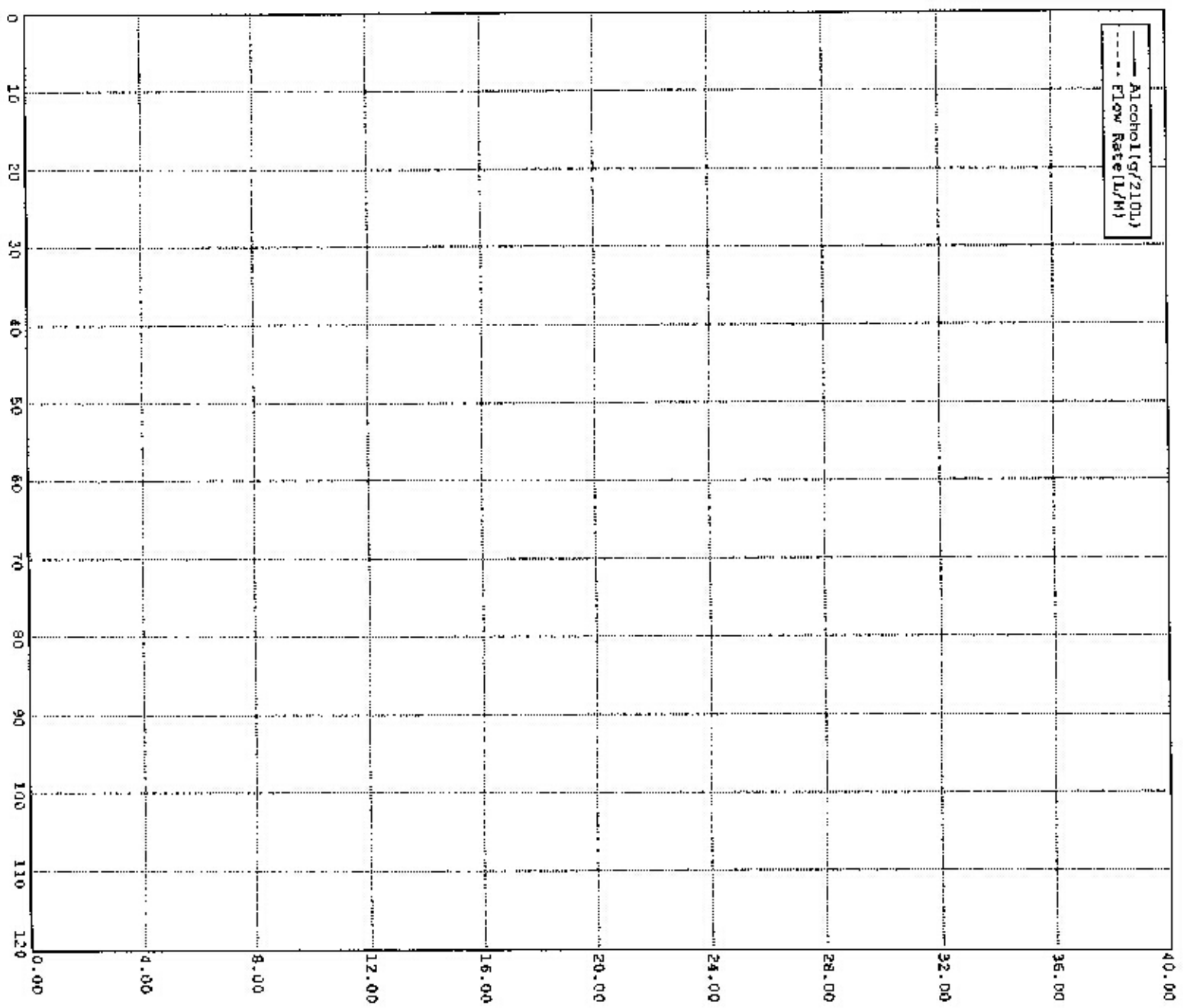
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAL
 CASE/REPORT: INCOMPLETE
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.07: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	12:47
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.078	12:48
BLANK TEST	0.000	12:49
SUBJECT SAMPLE	INCOMPLETE	12:51



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100384

Date: 05/14/2013
 Time: 14:13:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

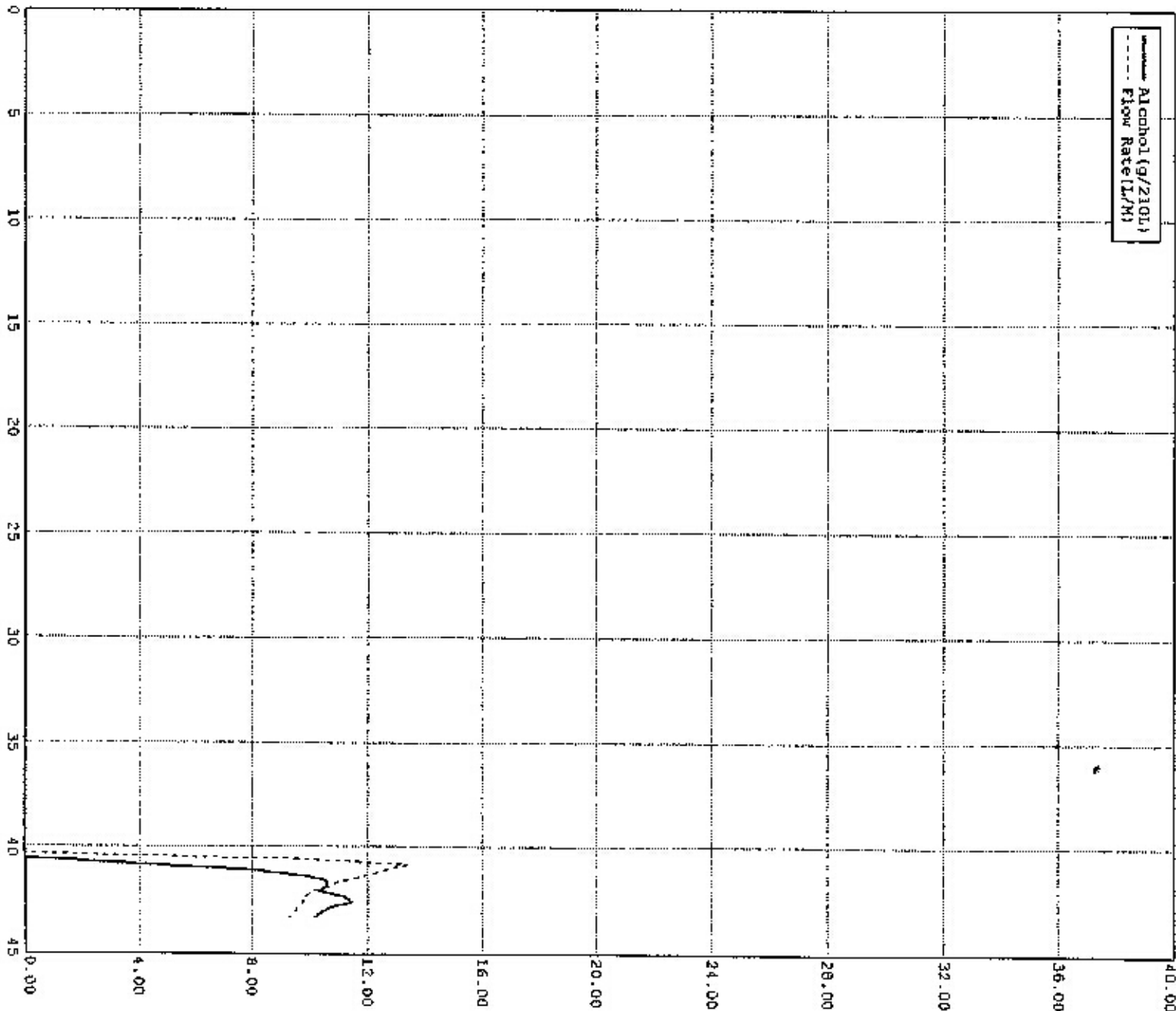
OPERATOR NAME:
 BRANDI HARNISTE
 OPERATOR'S #: 7039

DEPT/AGENCY:
 AAA1
 CASE/REPORT: INVALID
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.060
 TARGET AT 29.07: 0.077
 LOT #: 2261208DA1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.078	14:15
BLANK TEST	0.060	14:16
SUBJECT SAMPLE	INVALID	14:17

BRN



SUBJECT TEST

Alaska Department of Public Safety
 DATASTAR dnt: 100384

Date: 05/15/2013
 Time: 09:23:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

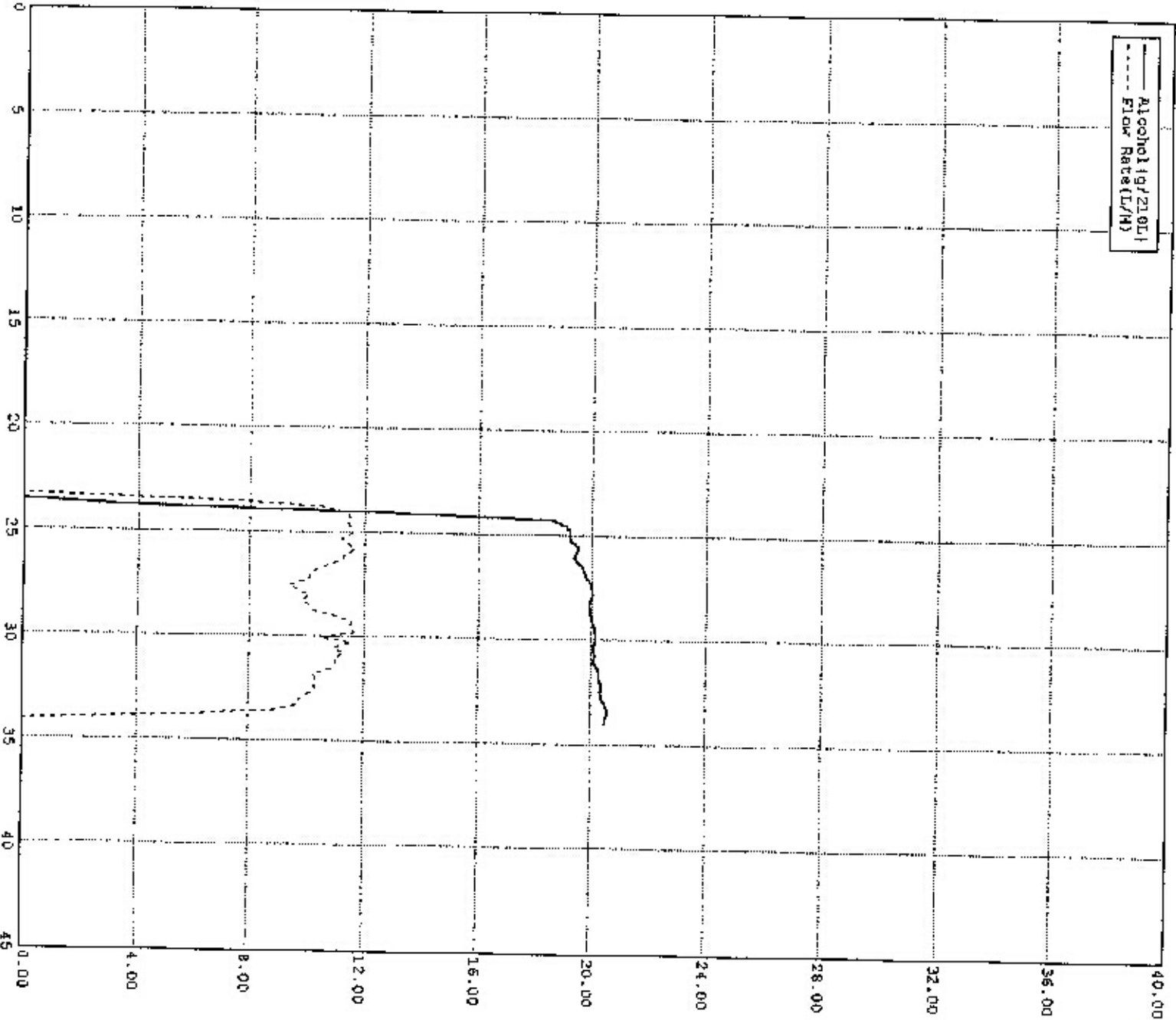
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAA
 CASE/REPORT: INTERFERE ACETONE
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: Z2612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	09:25
BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
X9 = 0.083 (0.318)	0.078	09:25
EXTERNAL STANDARD	X11 = 0.0783 (-0.0015)	(0.0018)
BLANK TEST	0.000	09:26
SUBJECT SAMPLE	INTERFERENCE	09:27
X11 = 0.1032 (-0.0158)	(0.0016)	

BBB



SUBJECT TEST

Alaska Department of Public Safety
 DATAWASTER dmc: 109384

Date: 05/15/2013
 Time: 09:30:20

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

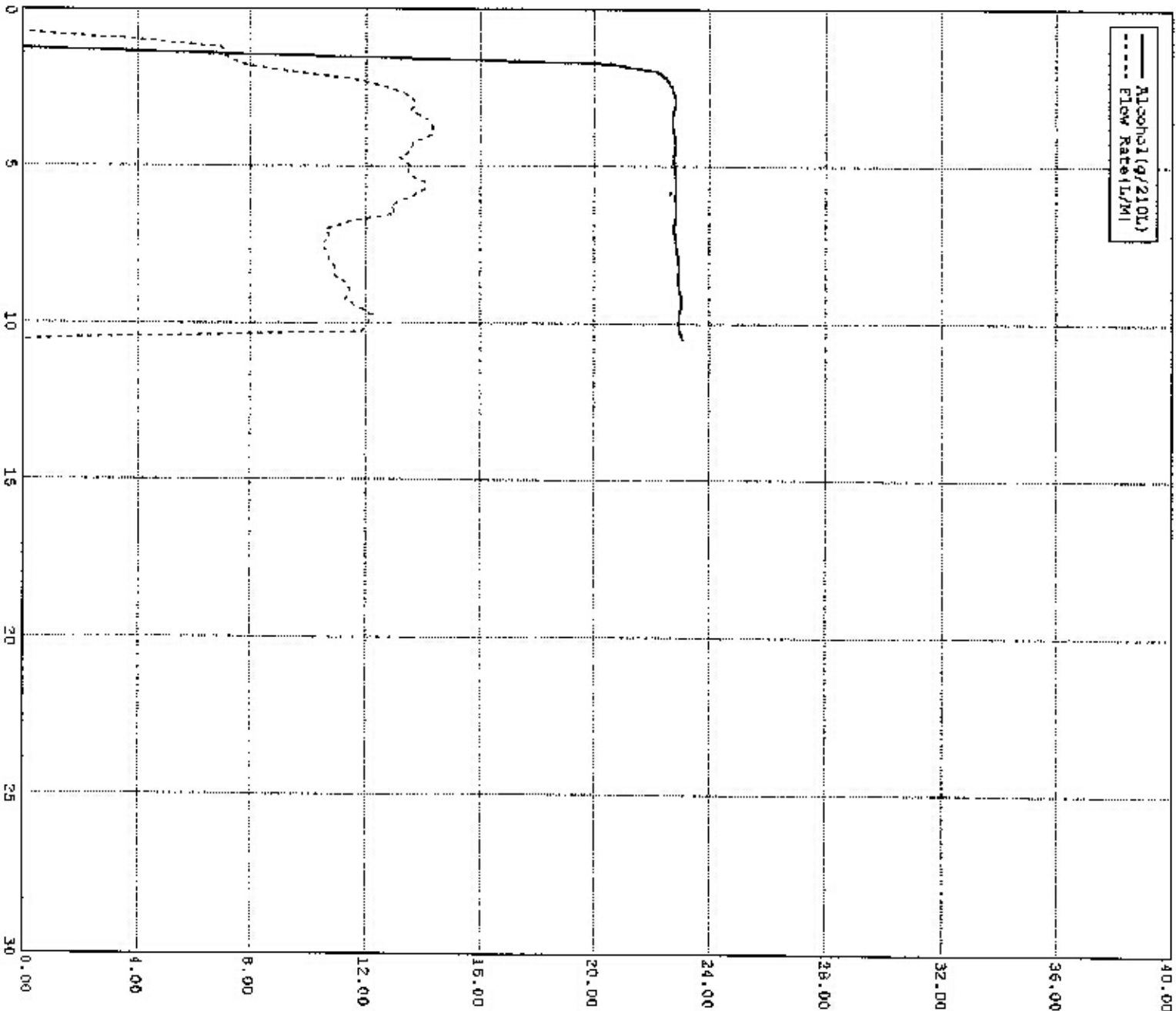
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 MAI
 CASE/REPORT: INTERFERE ISOPROP
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	09:32
BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
X _g = 0.084 (0.84%)		
EXTERNAL STANDARD	0.078	09:32
X _[1] = 0.0789 (-0.0009) (0.0012)		
BLANK TEST	0.000	09:33
SUBJECT SAMPLE	INTERFERENCE	09:33
X _[1] = 0.1154 (-0.0283) (-0.0006)		

BBMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmr: 100384

Date: 05/15/2013
 Time: 09:36:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

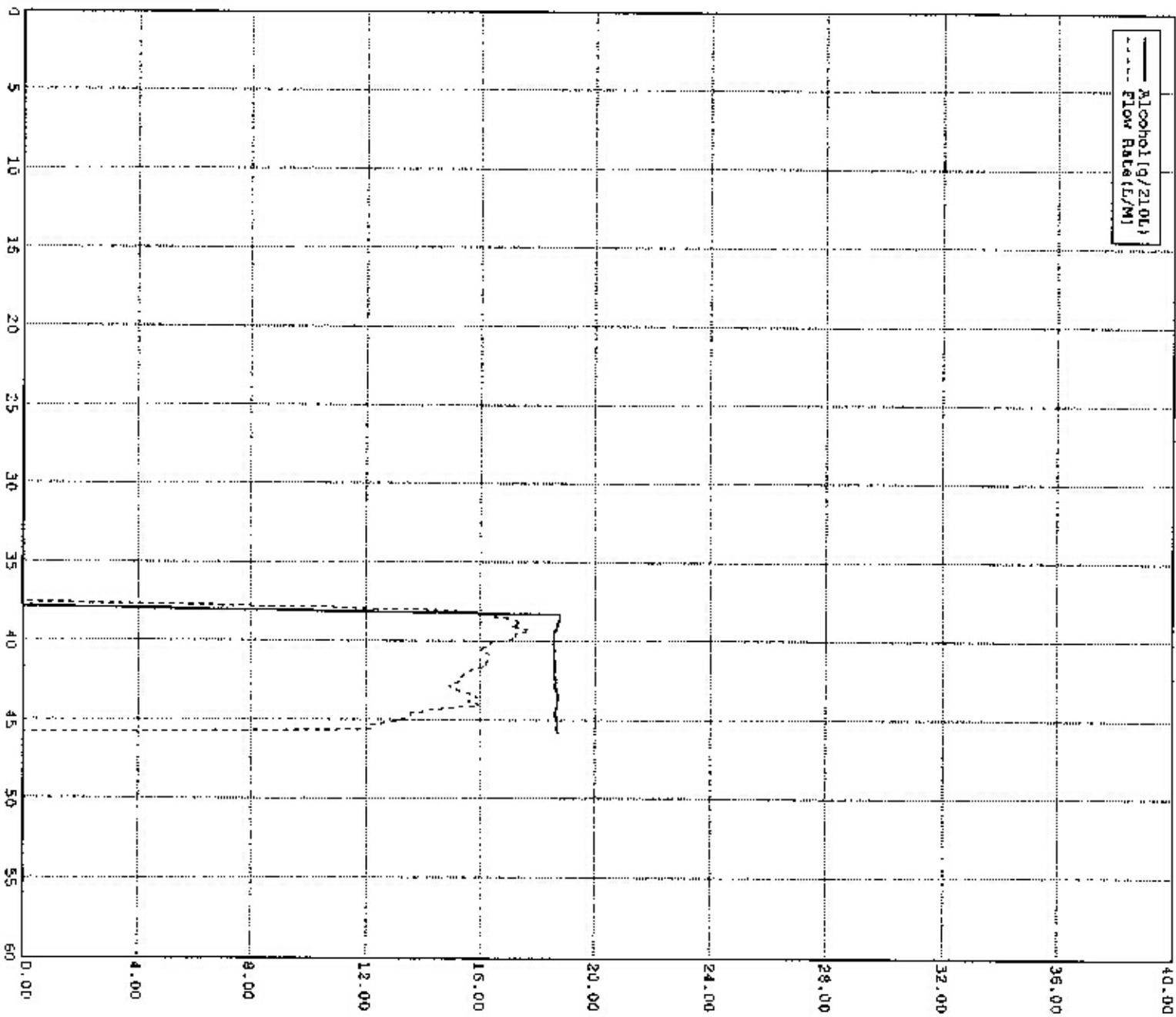
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAA
 CASE/REPORT: INTERFERE NEG
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.26: 0.078
 LOT #: 22612680A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	09:37
BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:38
X _g = 0.084 (0.95%)		
EXTERNAL STANDARD	0.078	09:38
X(1) = 0.0789 (-0.0009)	(0.0013)	
BLANK TEST	0.000	09:39
SUBJECT SAMPLE (Vol=2.05L)	0.094	09:40
X(1) = 0.0941 (-0.0004)	(0.0001)	
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.078	09:41
X(1) = 0.0784 (-0.0019)	(0.0012)	
BLANK TEST	0.000	09:42

RBMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100384

Date: 05/14/2013
 Time: 14:07:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

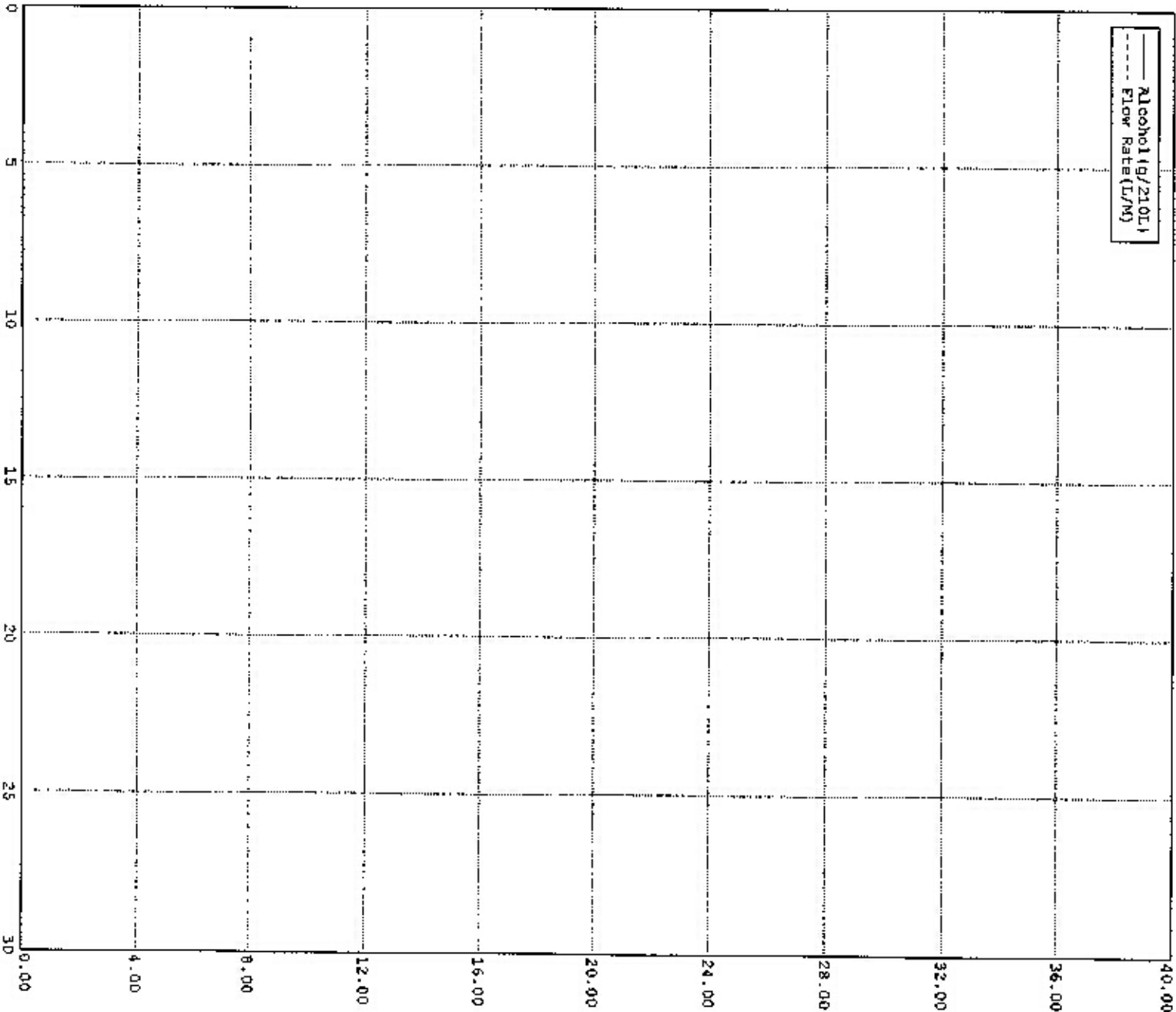
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAA1
 CASE/REPORT: RFI
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.07: 0.077
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:10
BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.078	14:11
BLANK TEST	0.000	14:12

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100384

Date: 05/15/2013
 Time: 09:59:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

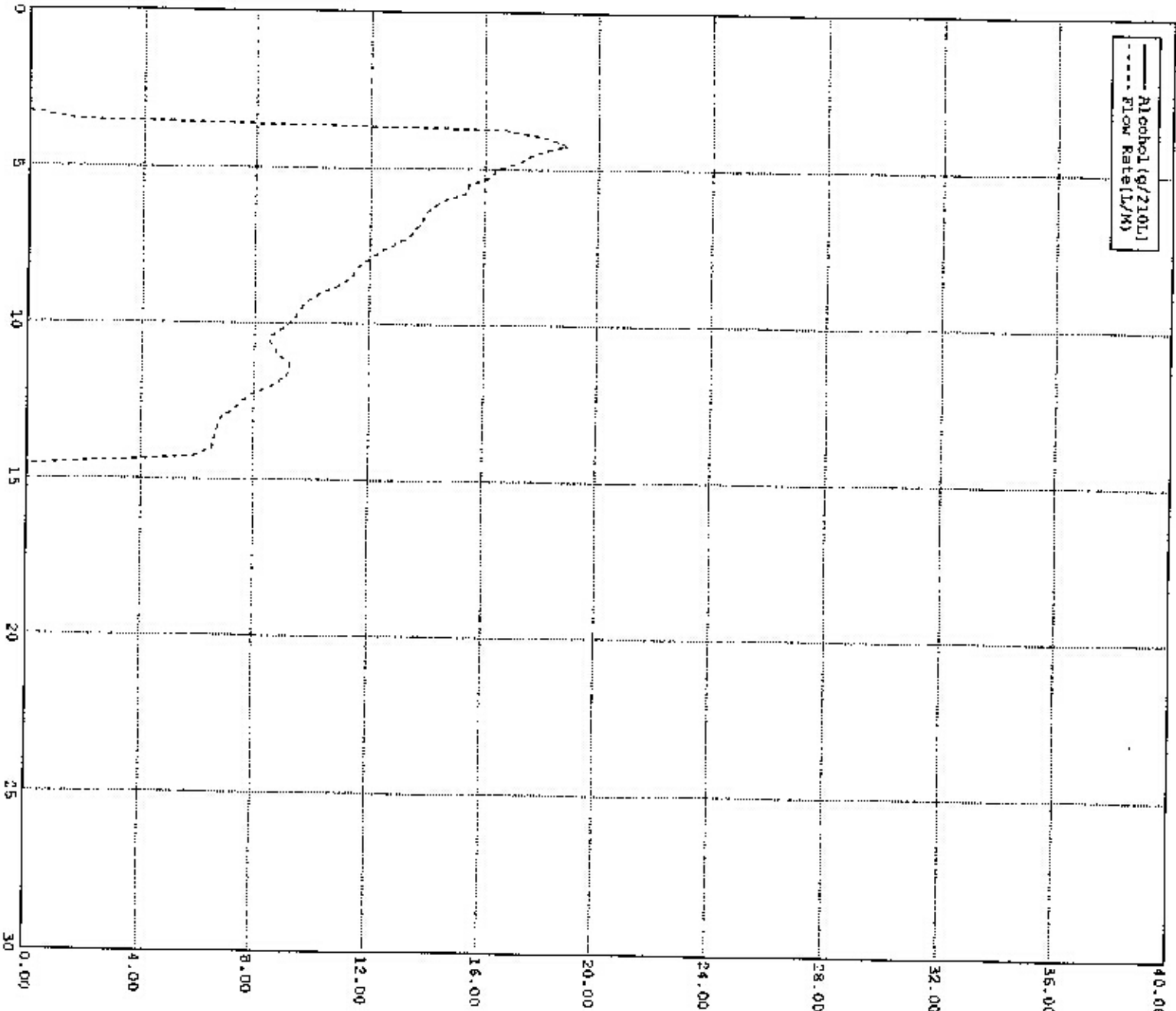
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAl
 CASE/REPORT: NON DRINKING SUB
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.26: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:01
BLANK TEST	0.000	10:01
INTERNAL STANDARD	VERIFIED	10:01
EXTERNAL STANDARD	0.079	10:01
BLANK TEST	0.000	10:02
SUBJECT SAMPLE	0.000	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.079	10:03
BLANK TEST	0.000	10:04

BBMB



Final page for report

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7/3/2014