

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100398 Analyst Colleen O'Bryant Start Date 6/26/2012
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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 1100 Exp 07/19/20131. Simulator S/N DR4176 Date Calibrated 02/01/2012 ⁹³ 08/18/2011vi. 0.300g/210L Mnf Guth Lot 1110 Exp 07/13/20131. Simulator S/N SD1176 Date Calibrated 08/17/2011

5. Functional Tests (attached)

a. Incomplete b. Invalid c. Interference i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/20131. Simulator S/N DR6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/20131. Simulator S/N SD1202 Date Calibrated 08/17/2011d. RFI 6. Verify stylus is calibrated 10. Verification of Calibration 7. Verify card reader is functional 11. Non-Drinking Subject Test (attached) 8. Reset Options 12. Upload 9. Clear Memory 13. Update agency information and polling status in DM Host Calling Program N/AEnd Date 06/29/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 07:50:19

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.8°C PASSED

PUMP INFO

Flow Rate = 5.236 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

COB 7/19

Technician Screen

DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 8:00 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 46.1°C

Current Barometer 29.4 in
Volume (Ltr) 1.56

Settings

Lamp: 1.79 V
Bias: 80 V
Cooler: 1.64 V
Chopper: 530 Hz

Voltages (V)

Flow: 1.03 V
Detector: -0.031 V

COB 3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 05/18/2011
Time: 15:01:06

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.984202 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0077 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0909 0.0500 <= Xq < 0.2000
a21 = 1.228106 1.050 <= a21 < 1.300
a31 = 0.486055 0.300 <= a31 < 0.800

COB 7/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 08:01:28

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

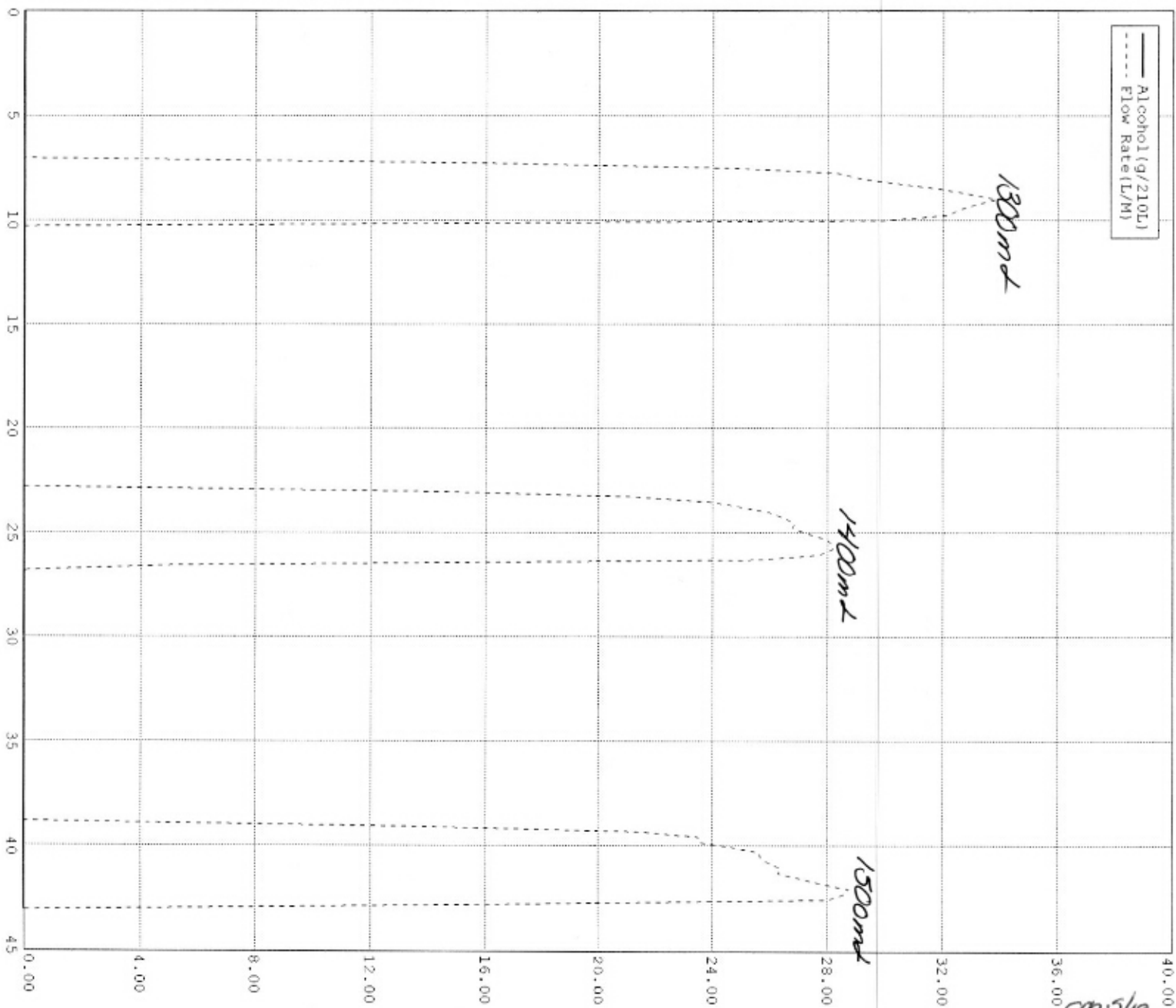
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:02
BLANK TEST	0.000	08:02
INTERNAL STANDARD	VERIFIED	08:02
EXTERNAL STANDARD	0.077	08:02
BLANK TEST	0.000	08:03
SUBJECT SAMPLE	0.000	08:04
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.077	08:05
BLANK TEST	0.000	08:06

CAS



LINEARITY CHECK

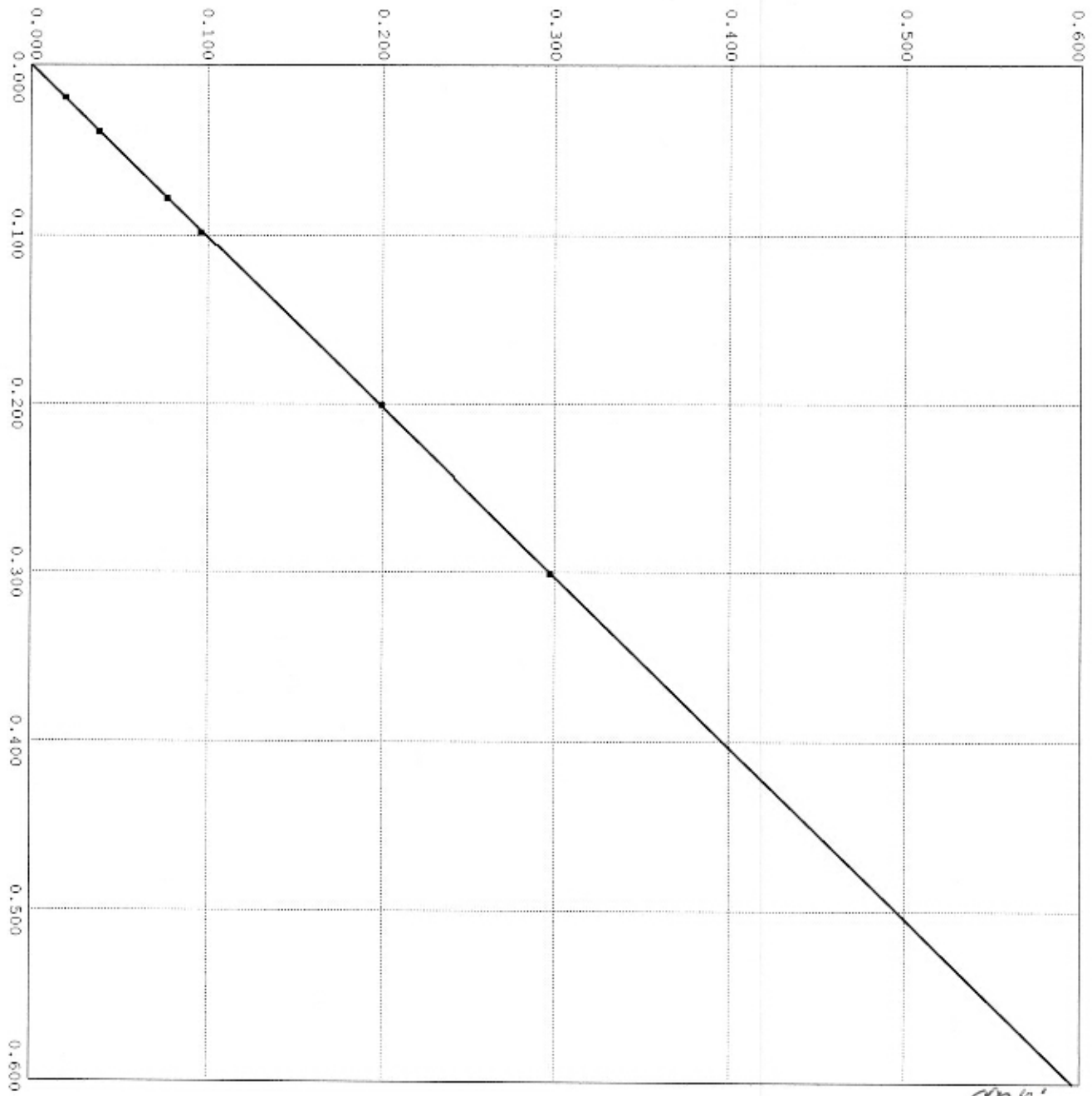
Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 08:17:35

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0198	0.0001
0.039	0.0392	0.0003
0.078	0.0780	0.0002
0.098	0.0970	0.0003
0.200	0.2002	0.0004
0.300	0.2981	0.0007

SLOPE = 0.993066
R² = 0.999962



COB

LINEARITY CHECK: Control Test 1

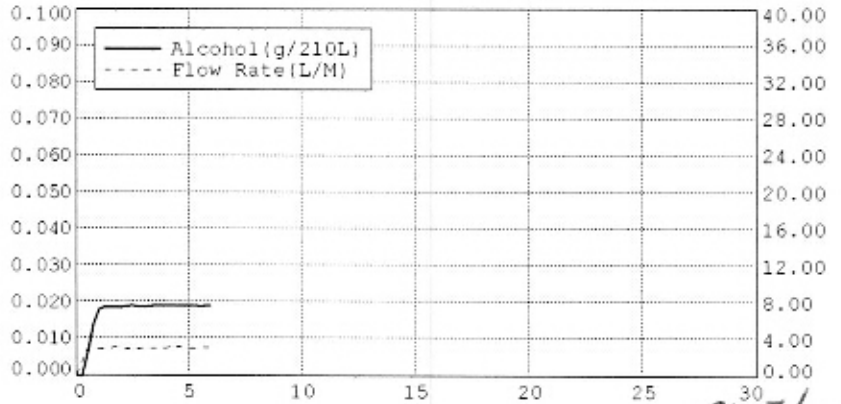
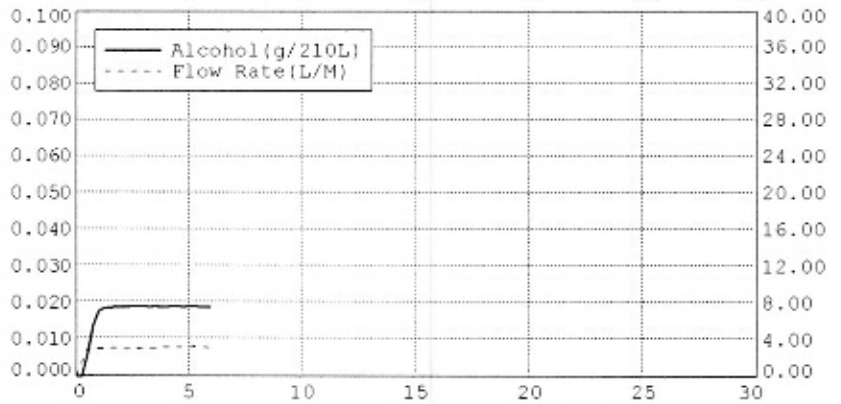
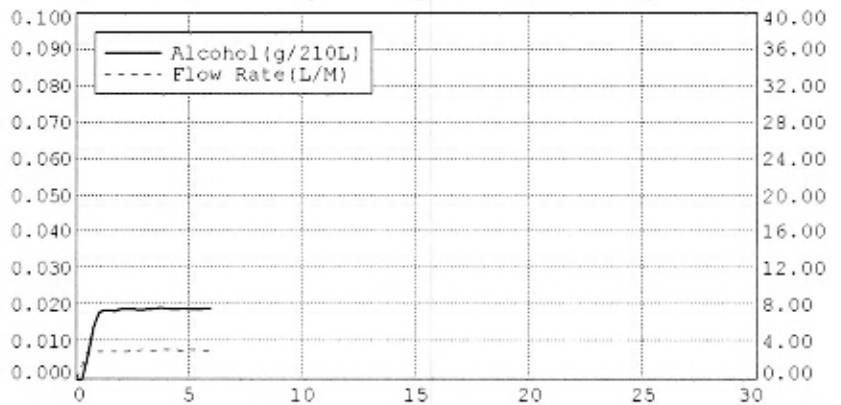
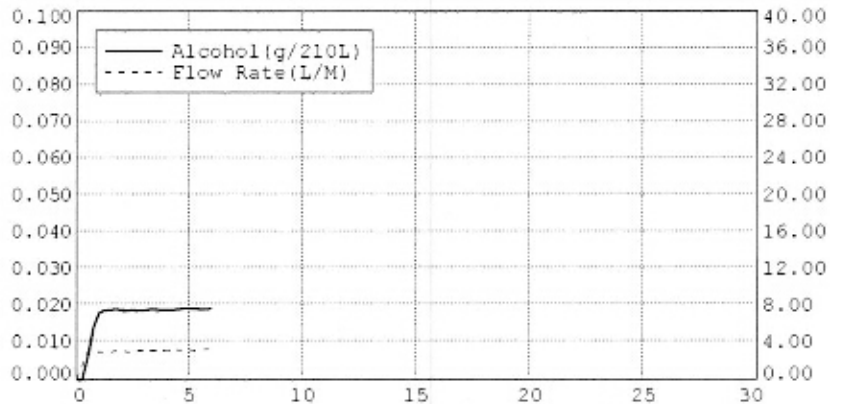
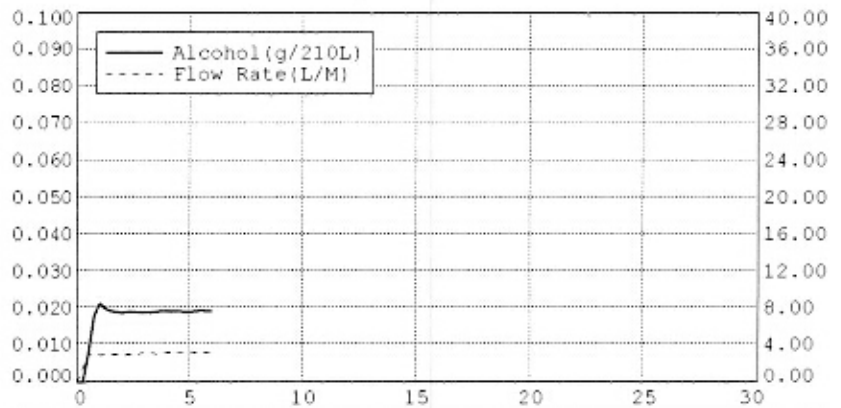
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 06/26/2012
 Time: 08:17:36

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.42: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:18
INTERNAL STANDARD	VERIFIED	08:18
EXTERNAL STANDARD	0.019	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.019	08:20
BLANK TEST	0.000	08:21
EXTERNAL STANDARD	0.019	08:21
BLANK TEST	0.000	08:22
EXTERNAL STANDARD	0.019	08:22
BLANK TEST	0.000	08:23
EXTERNAL STANDARD	0.019	08:23
BLANK TEST	0.000	08:24

Average = 0.0198
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

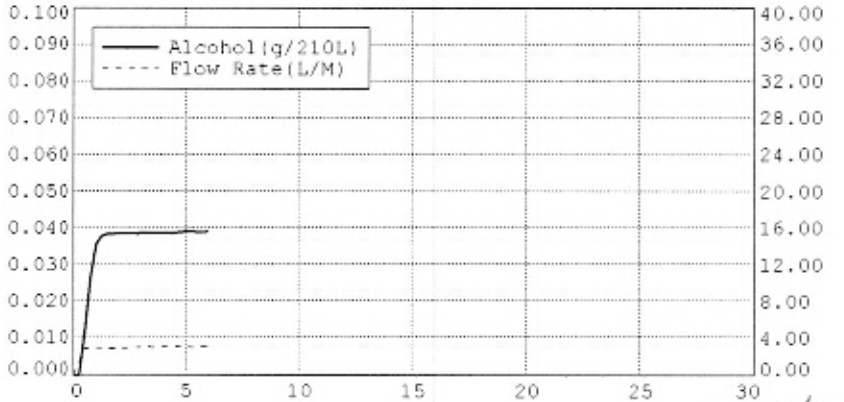
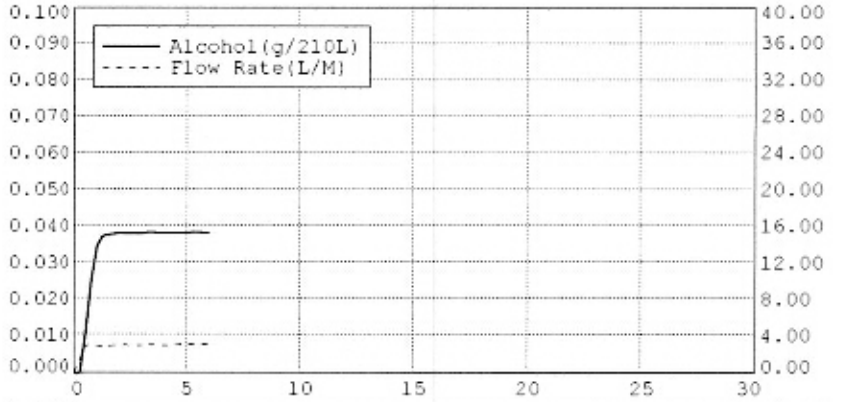
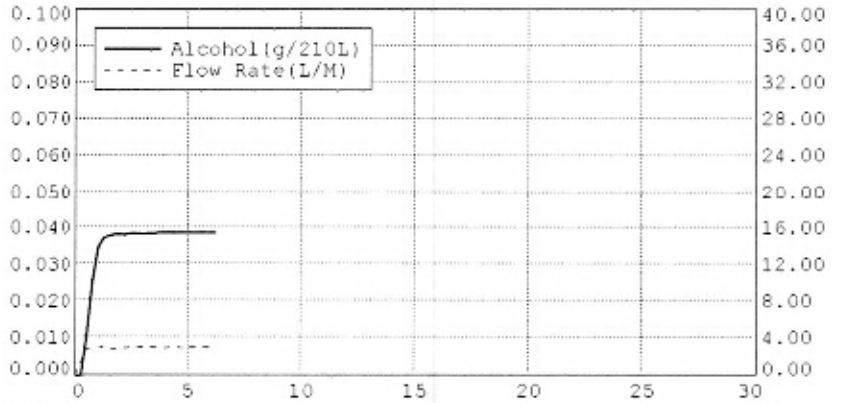
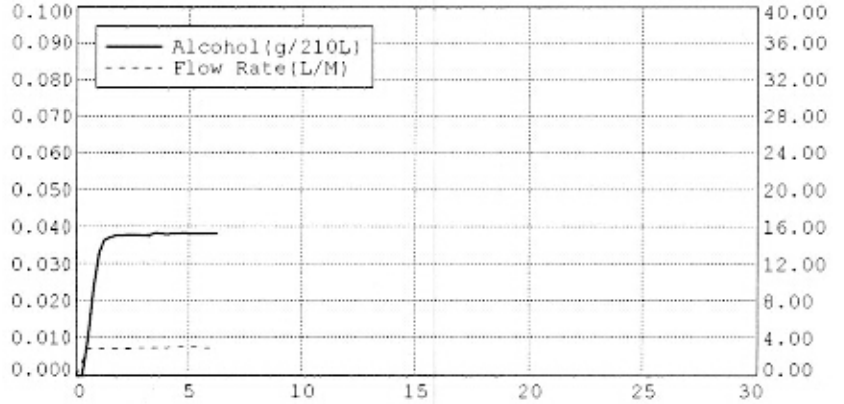
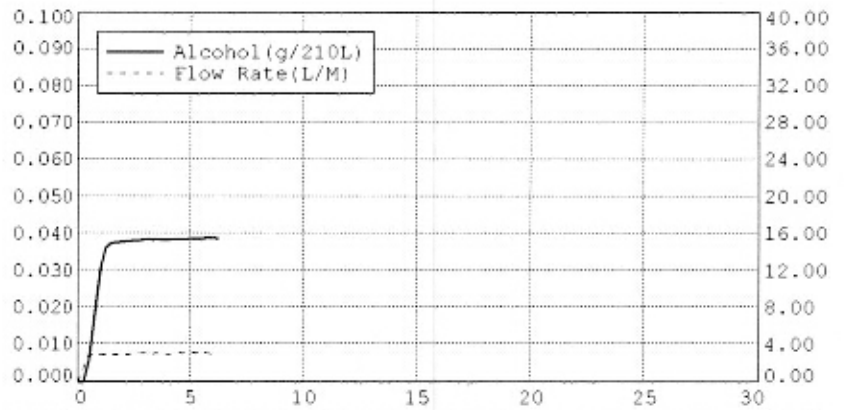
Date: 06/26/2012
 Time: 08:25:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.42: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.039	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.039	08:27
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.039	08:28
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.038	08:29
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.039	08:31
BLANK TEST	0.000	08:31

Average = 0.0392
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

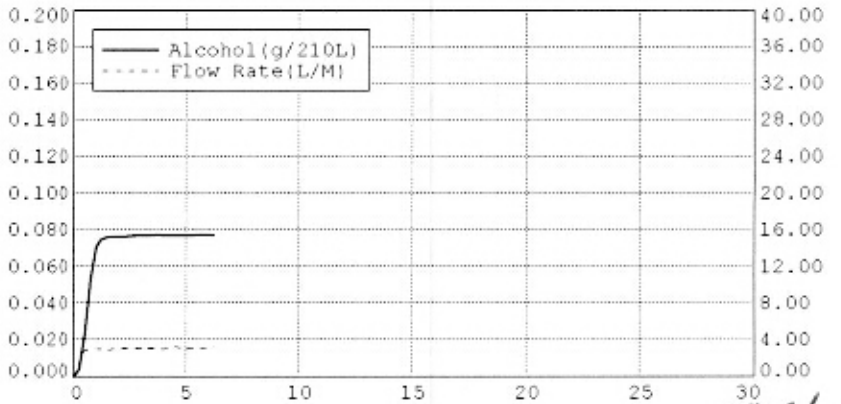
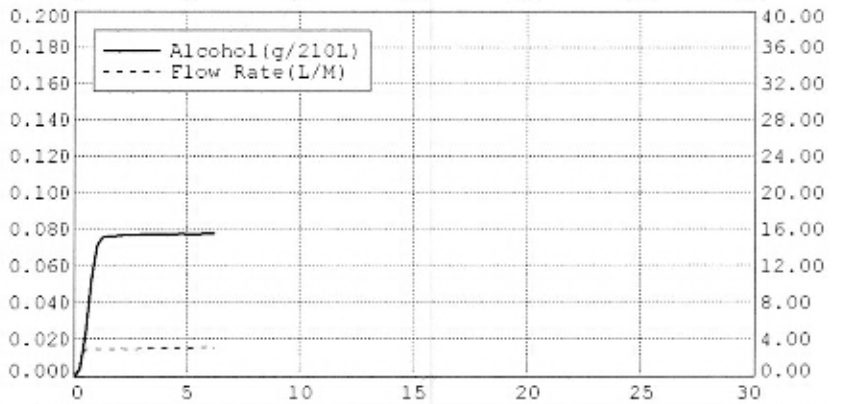
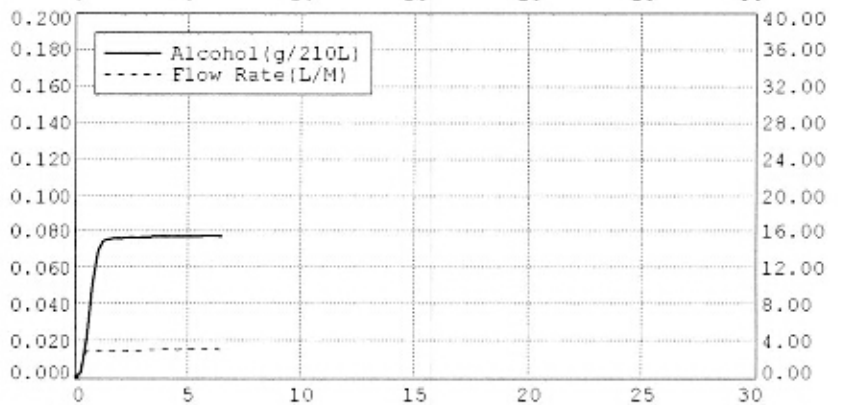
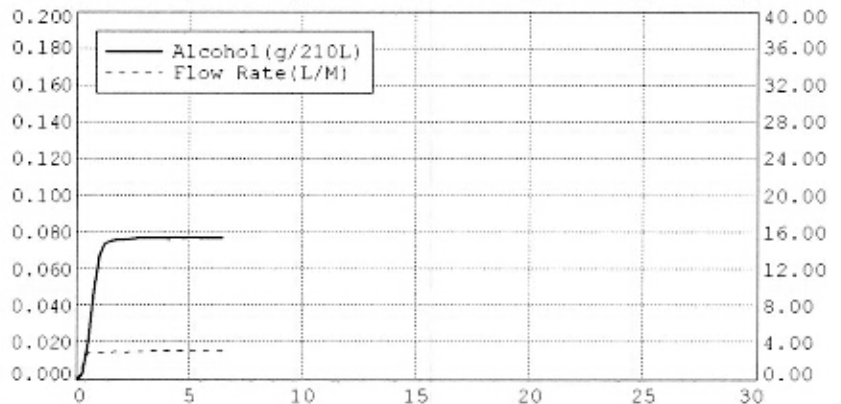
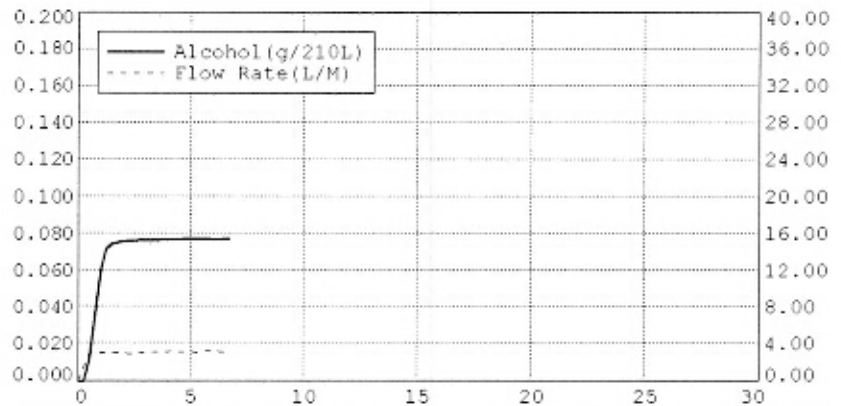
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 06/26/2012
 Time: 08:33:08

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.077	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.078	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.078	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.078	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.077	08:39
BLANK TEST	0.000	08:39

Average = 0.0780
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

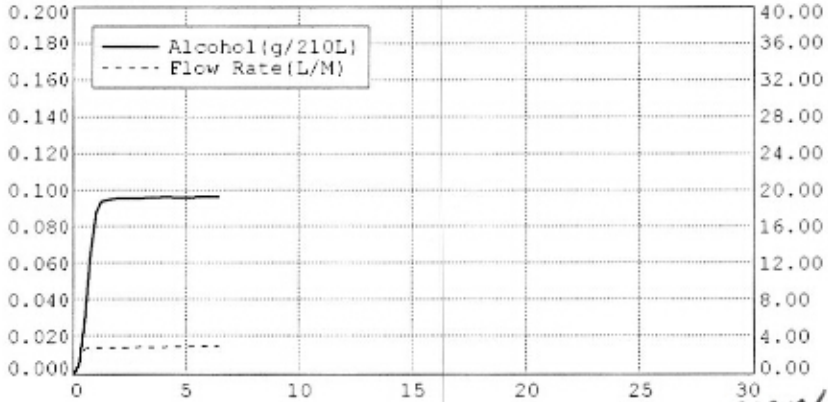
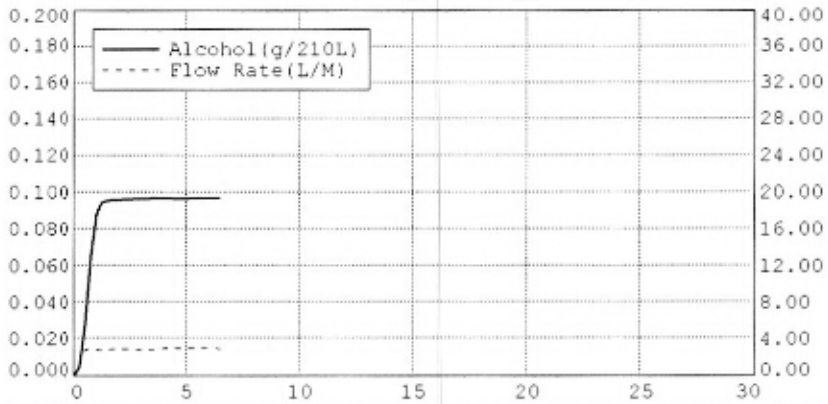
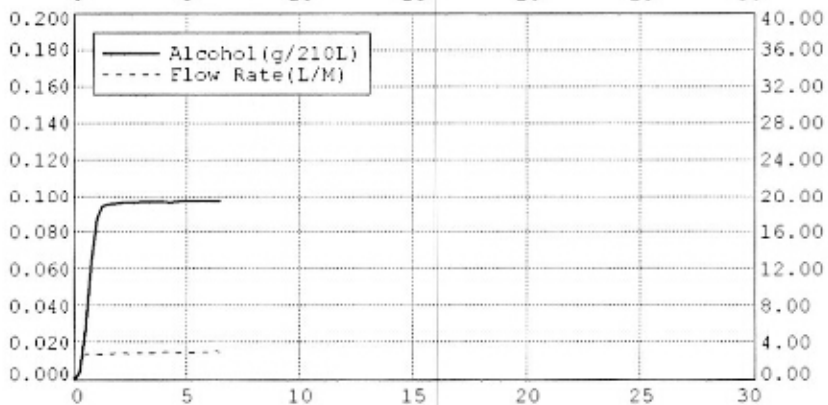
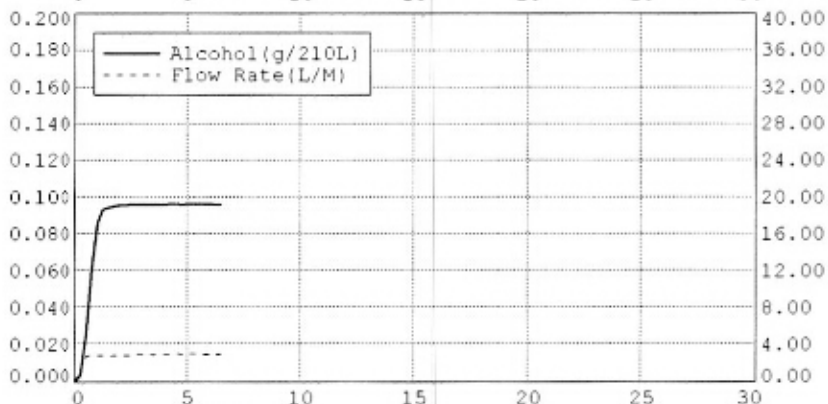
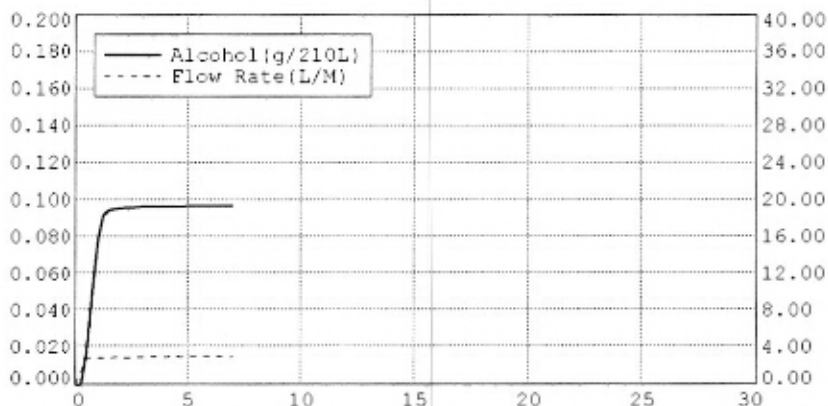
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 06/26/2012
 Time: 08:41:50

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.42: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:43
INTERNAL STANDARD	VERIFIED	08:43
EXTERNAL STANDARD	0.097	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.096	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.097	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.097	08:47
BLANK TEST	0.000	08:47
EXTERNAL STANDARD	0.096	08:48
BLANK TEST	0.000	08:49

Average = 0.0970
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

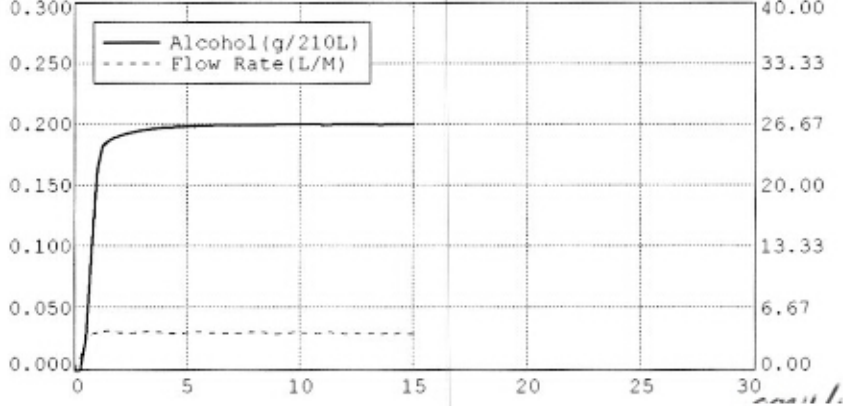
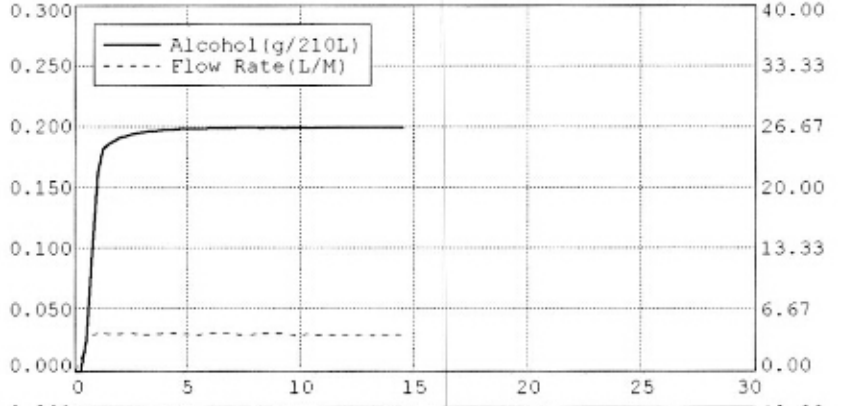
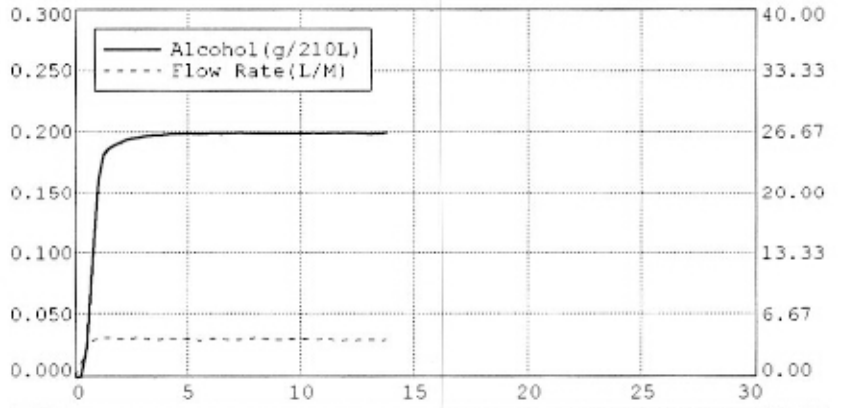
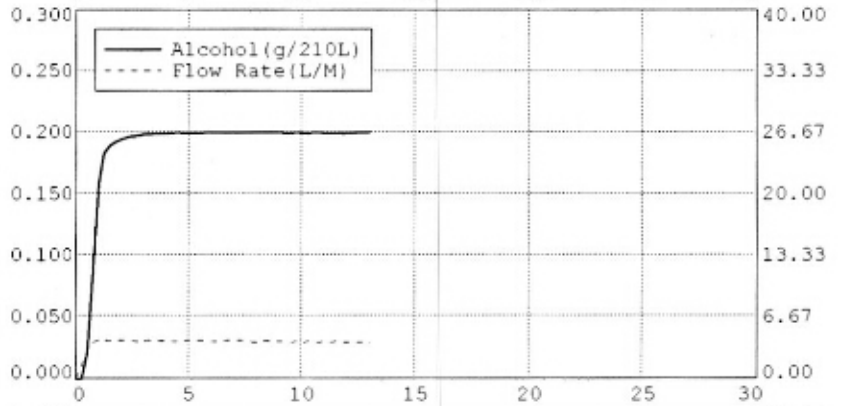
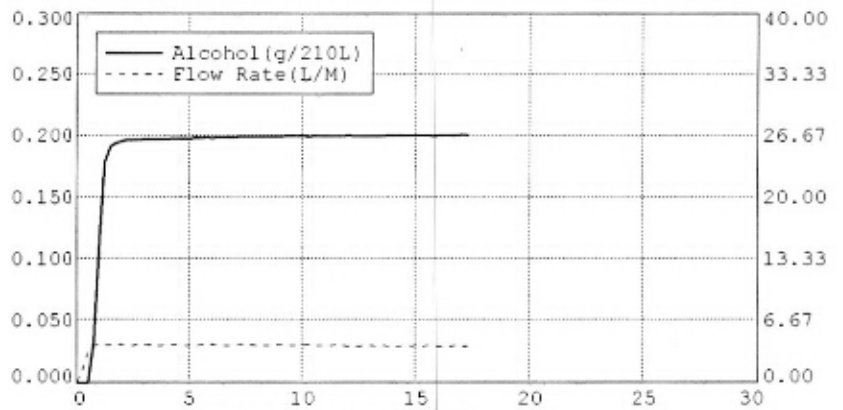
Date: 06/26/2012
 Time: 10:00:55

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
EXTERNAL STANDARD	0.200	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.200	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.199	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.200	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.200	10:07
BLANK TEST	0.000	10:08

Average = 0.2002
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

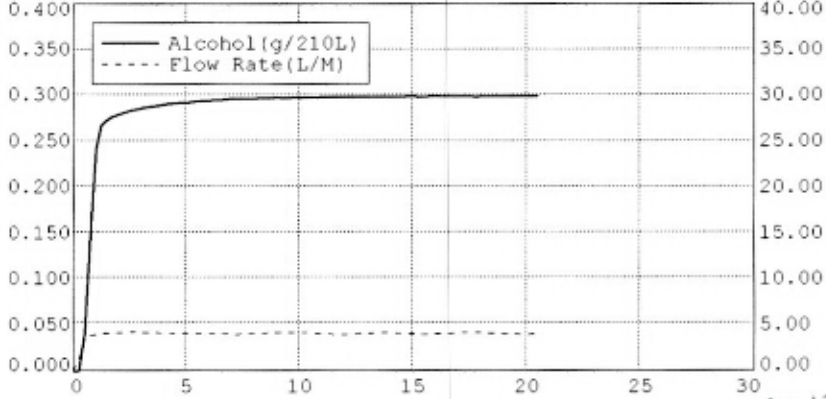
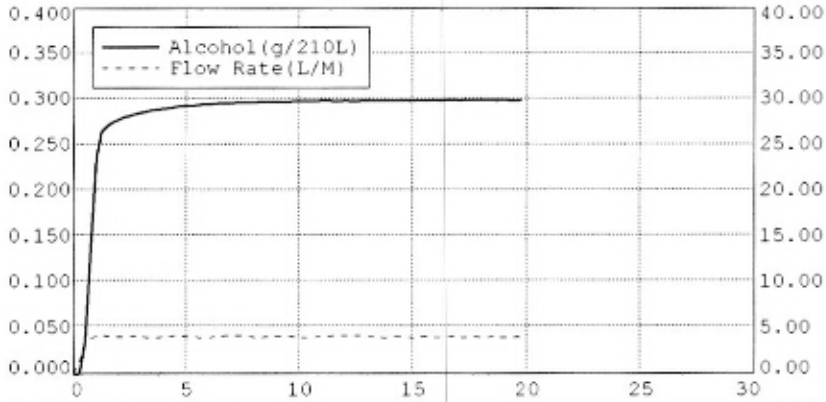
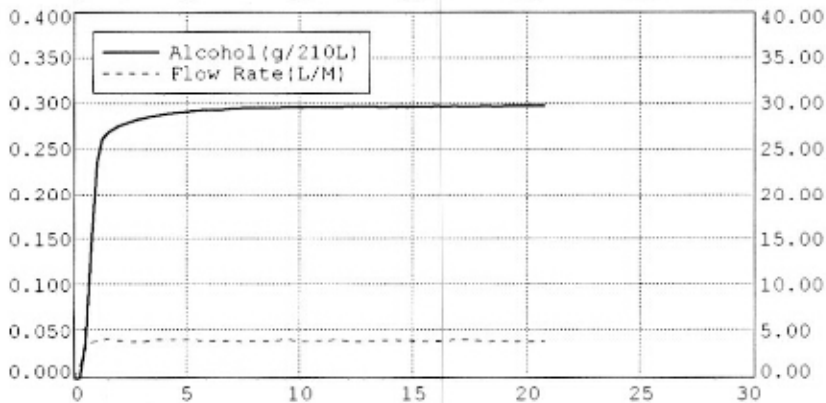
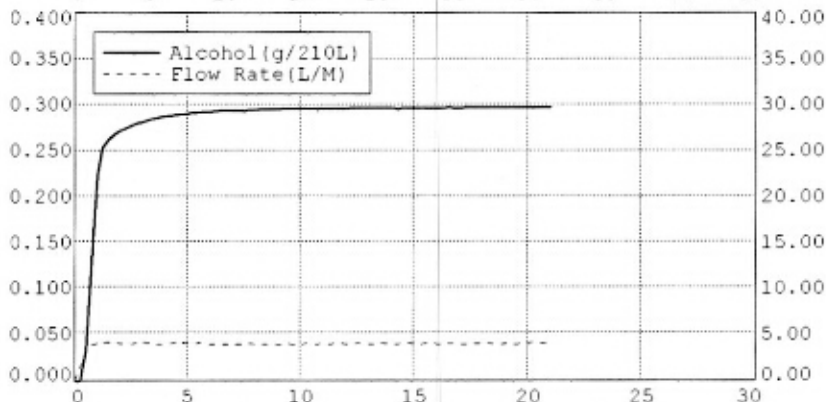
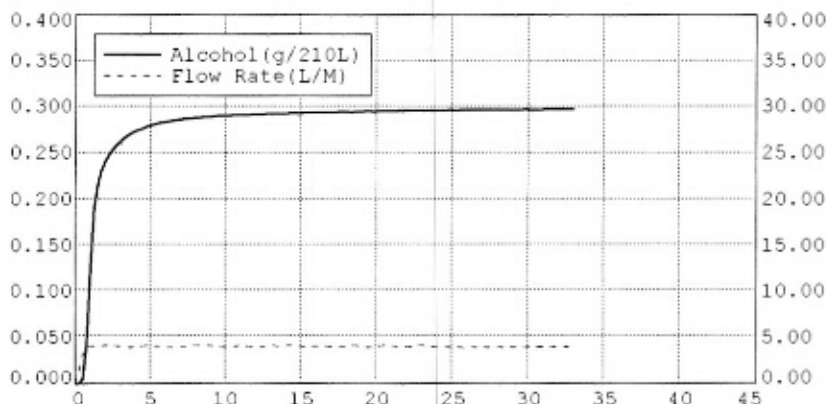
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 06/26/2012
 Time: 10:11:08

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.297	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.297	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.297	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.298	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.299	10:18
BLANK TEST	0.000	10:19

Average = 0.2981
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 10:43:26

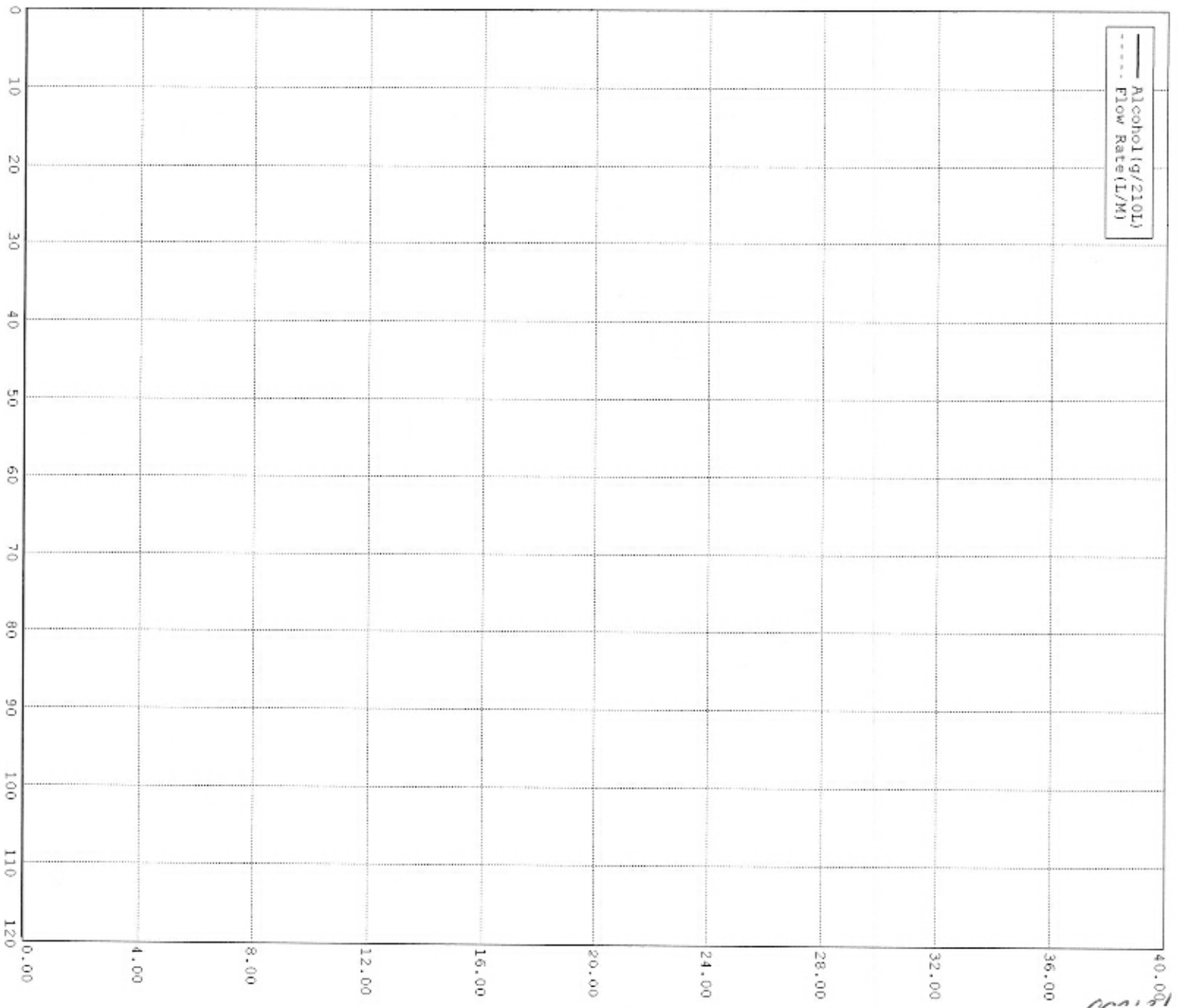
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
COLLEEN S OBERYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:20
BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.077	11:20
BLANK TEST	0.000	11:21
SUBJECT SAMPLE	INCOMPLETE	11:23



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 14:22:56

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

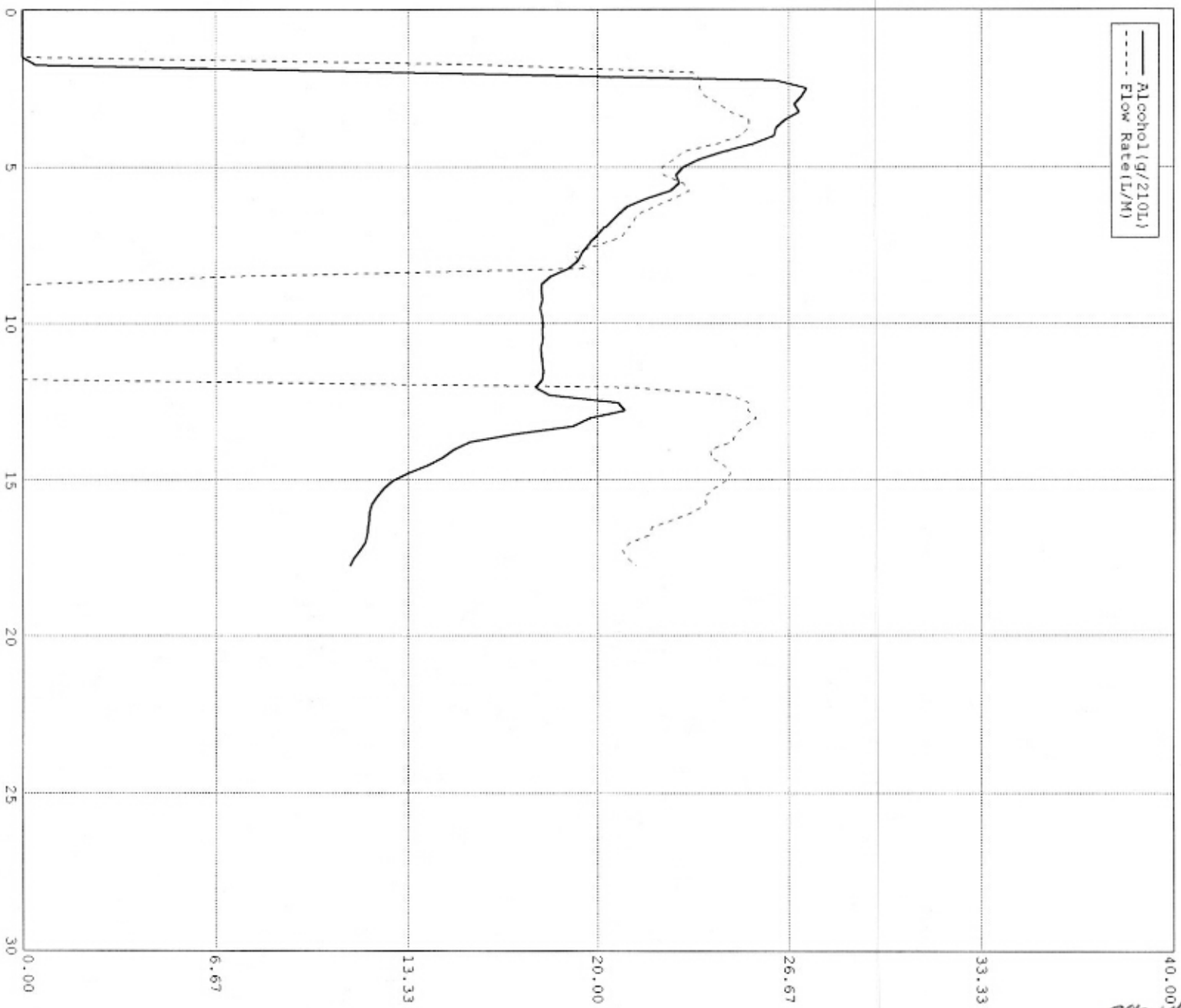
OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:23
BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.075	14:24
BLANK TEST	0.000	14:25
SUBJECT SAMPLE	INVALID	14:25

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 14:43:52

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

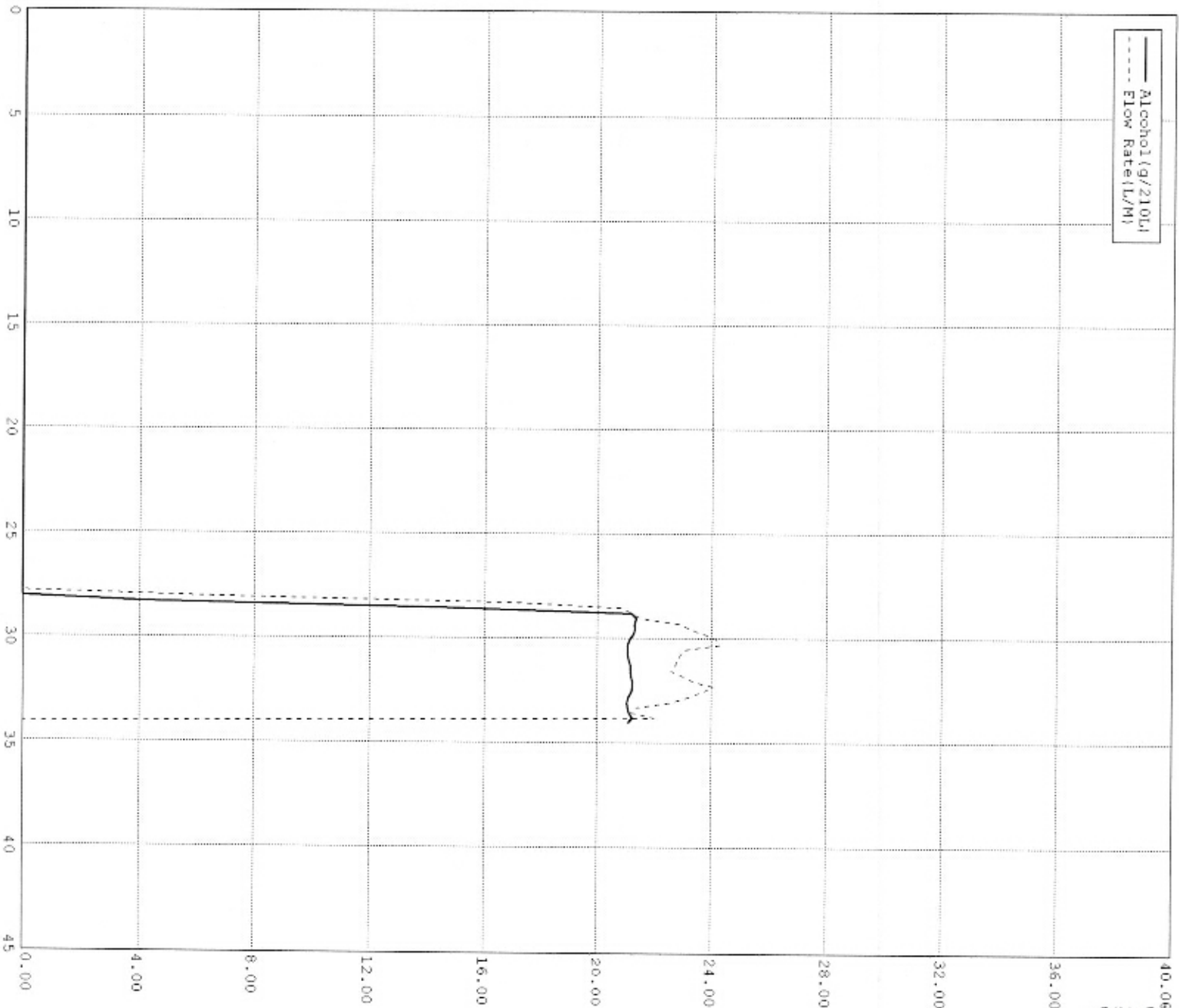
OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:45
BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
Xq = 0.091 (0.588)		
EXTERNAL STANDARD	0.078	14:45
X[1] = 0.0780 (-0.0017) (0.0026)		
BLANK TEST	0.000	14:46
SUBJECT SAMPLE	INTERFERENCE	14:47
X[1] = 0.1059 (-0.0199) (0.0015)		

MB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 14:50:50

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

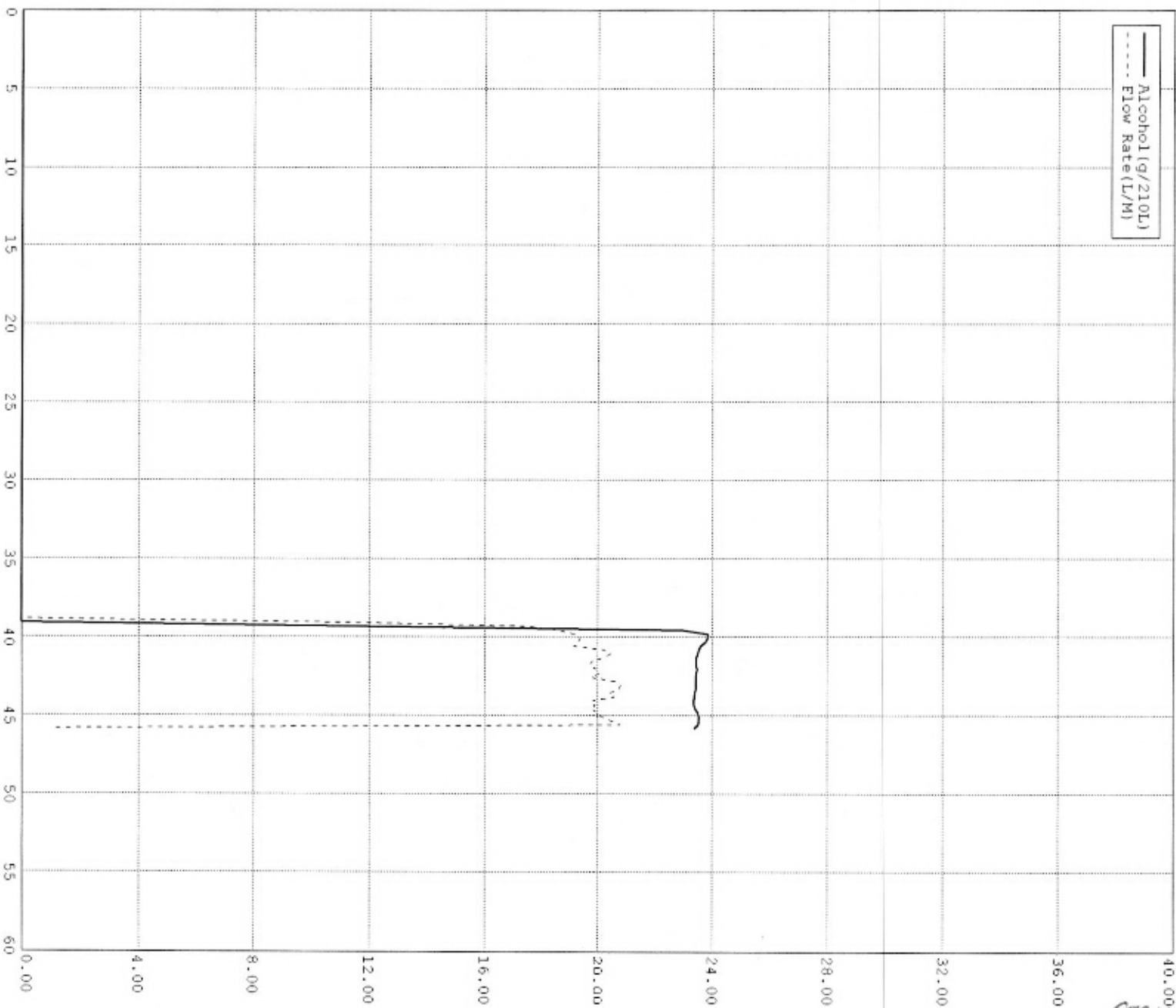
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
Xg = 0.091 (0.58%)		
EXTERNAL STANDARD	0.077	14:54
X[1] = 0.0776 (-0.0021) (0.0029)		
BLANK TEST	0.000	14:55
SUBJECT SAMPLE INTERFERENCE		14:55
X[1] = 0.1169 (-0.0293) (0.0038)		

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 14:36:37

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG

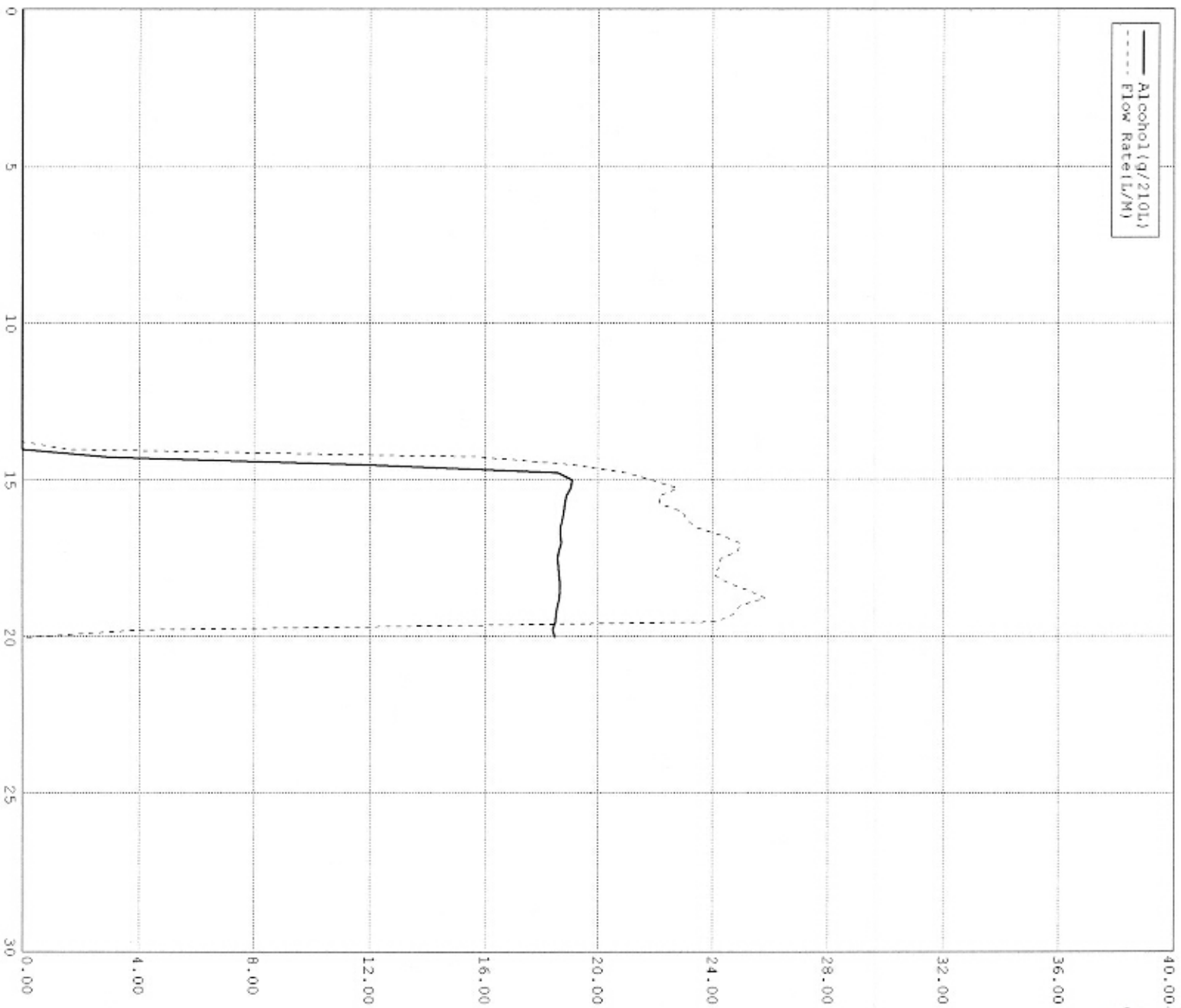
OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:38
BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
Xq = 0.091 (0.10%)		
EXTERNAL STANDARD	0.077	14:38
X[1] = 0.0775 (-0.0020) (0.0026)		
BLANK TEST	0.000	14:39
SUBJECT SAMPLE (Vol=2.16L)	0.092	14:40
X[1] = 0.0923 (0.0010) (0.0020)		
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.077	14:41
X[1] = 0.0773 (-0.0017) (0.0024)		
BLANK TEST	0.000	14:42

OK



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/26/2012
Time: 15:05:04

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

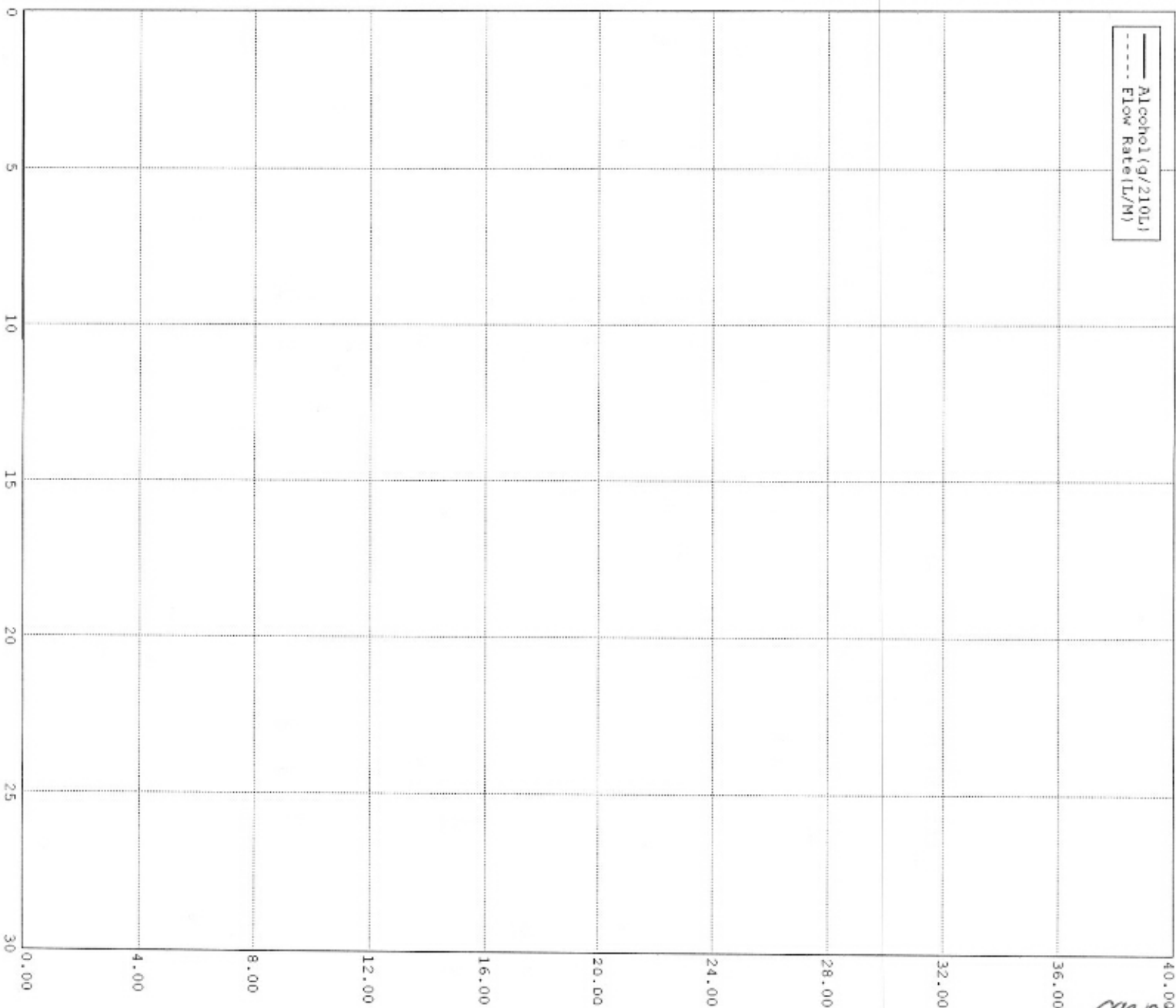
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:18
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.077	15:18
BLANK TEST	0.000	15:19

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 06/29/2012
Time: 12:23:18

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

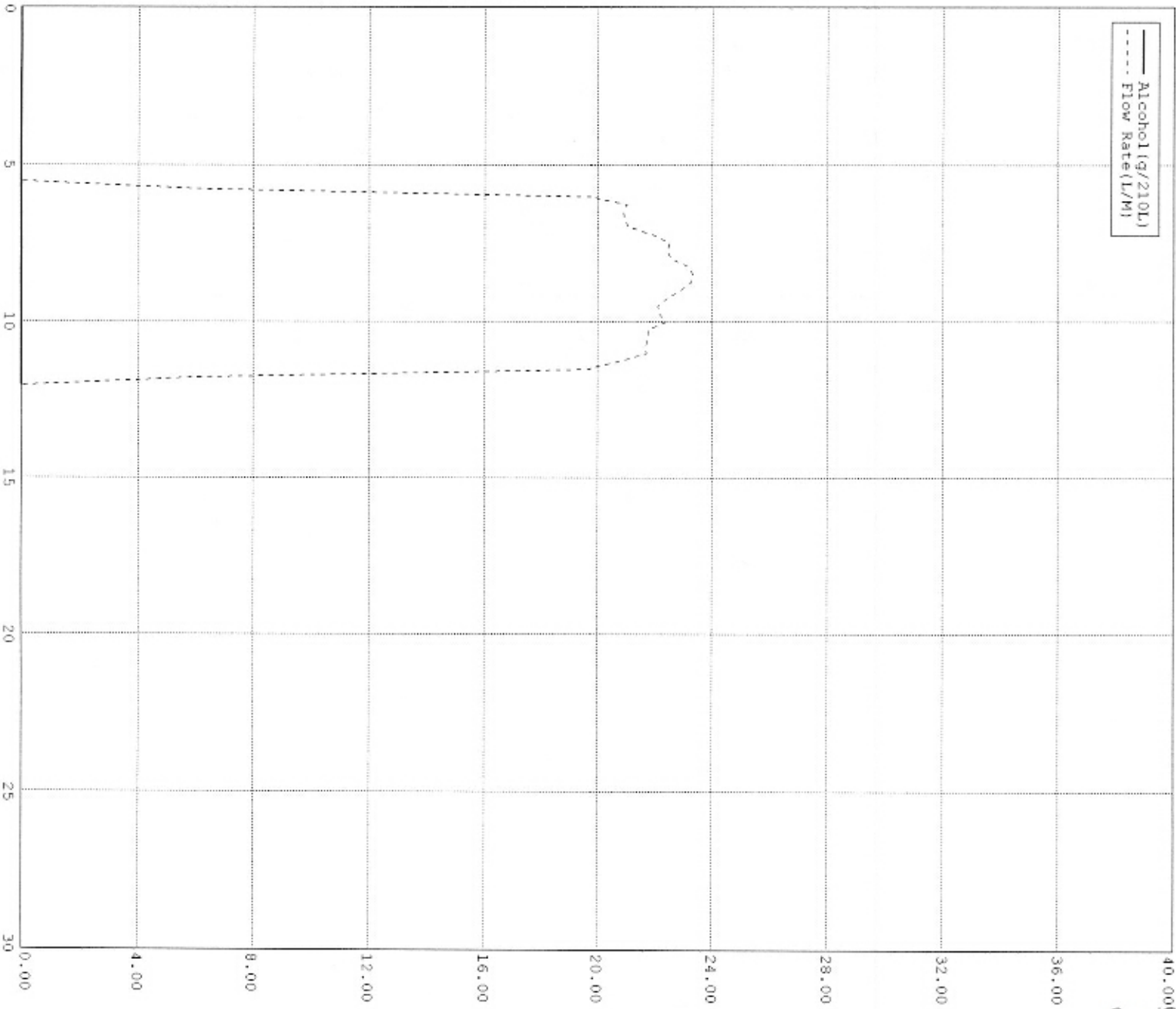
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:24
BLANK TEST	0.000	12:25
INTERNAL STANDARD	VERIFIED	12:25
EXTERNAL STANDARD	0.078	12:25
BLANK TEST	0.000	12:26
SUBJECT SAMPLE	0.000	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.078	12:27
BLANK TEST	0.000	12:28

CSB



Final page for report

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2/19/2014