

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMCEF 2014 R0
Status: Active

Instrument S/N 100359 Analyst Colleen O'Bryan Start Date 6/19/14

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.5 L (1.3L to 1.7L)
5. Linearity Test (attached)
 - a. Levels Used
 - i. 0.020g/210L Mnf I/mo Lot 00813020A1 Exp 3/1/15
 - ii. 0.040g/210L Mnf I/mo Lot 00813040A2 Exp 3/1/15
 - iii. 0.080g/210L Mnf I/mo Lot 11313080A1 Exp 6/1/15
 - iv. 0.100g/210L Mnf I/mo Lot 00813100A3 Exp 3/1/15
 - v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14
 1. Simulator S/N DR 4176 Date Calibrated 11/1/13
 - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N DR 4163 Date Calibrated 11/4/13
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Guth Lot 12120 Level 0.200 Exp 8/10/14
 1. Simulator S/N DR 4162 Date Calibrated 11/1/13
 - ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR 6267 Date Calibrated 11/5/13
 - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR 4177 Date Calibrated 11/5/13
 - d. RFI
7. Verify stylus is calibrated
8. Reset Options
9. Clear Memory
10. Verification of Calibration
11. Non-Drinking Subject Test (attached)
12. Upload

End Date 6/19/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100359

Date: 06/19/2014
Time: 09:08:56

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.531 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 dot: 100359

Date: 06/19/2014

Time: 9:34 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.0°C

Current Barometer 29.6 in

Volume (Ltr) 1.58

Settings

Lamp: 1.95 V

Bias: 80 V

Cooler: 1.87 V

Chopper: 543 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.060 V

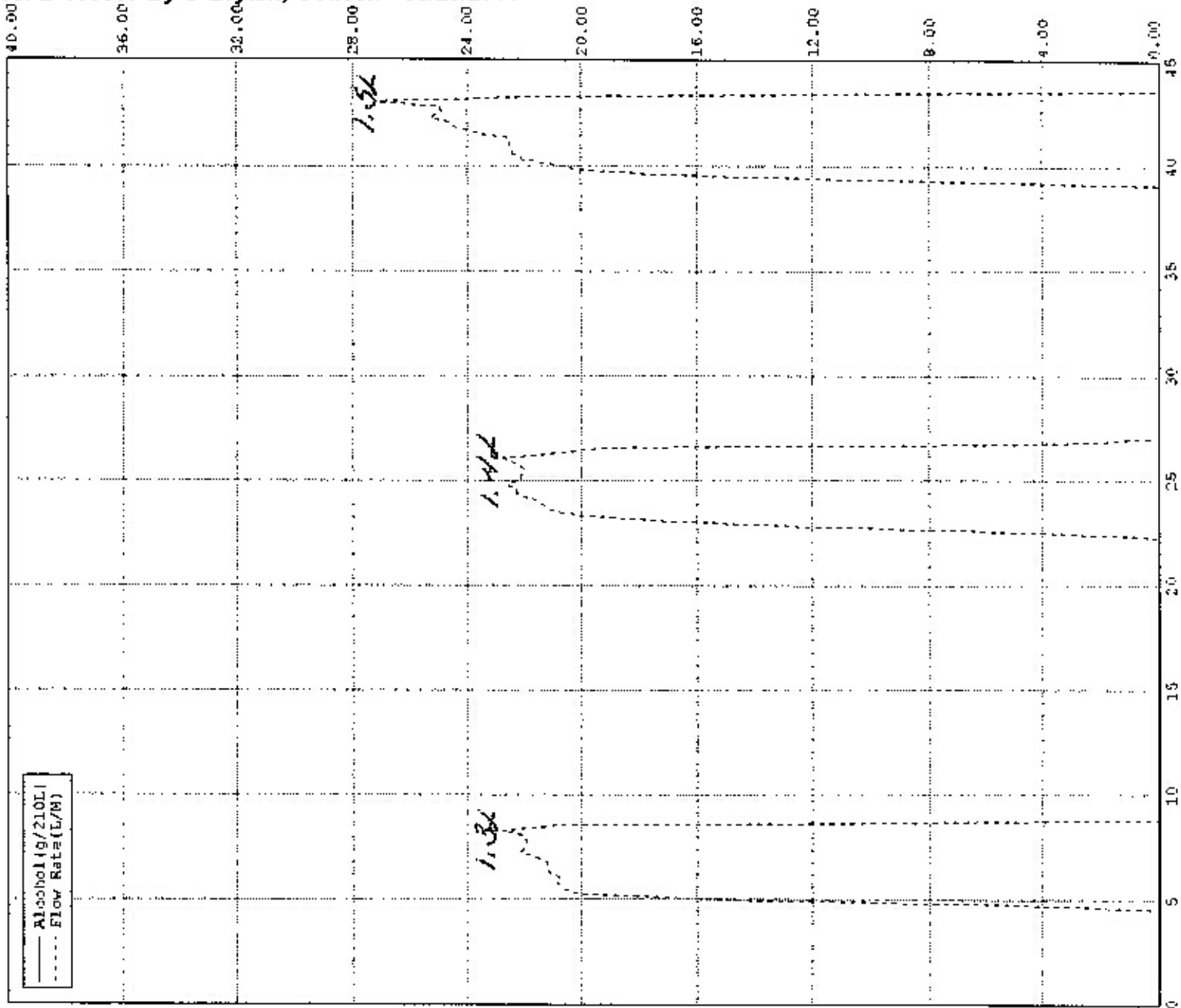
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 09/18/2012
Time: 15:23:07

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000		
CAL	=	0.990036	0.800	<= CAL < 1.200
b1	=	0.0009	0.0000	<= b1 < 0.0040
b2	=	0.0053	0.0010	<= b2 < 0.0100
b3	=	0.0006	0.0000	<= b3 < 0.0040
Xq	=	0.0795	0.0500	<= Xq < 0.2000
a21	=	1.151754	1.050	<= a21 < 1.300
a31	=	0.404180	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100359

Date: 06/19/2014
 Time: 09:35:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

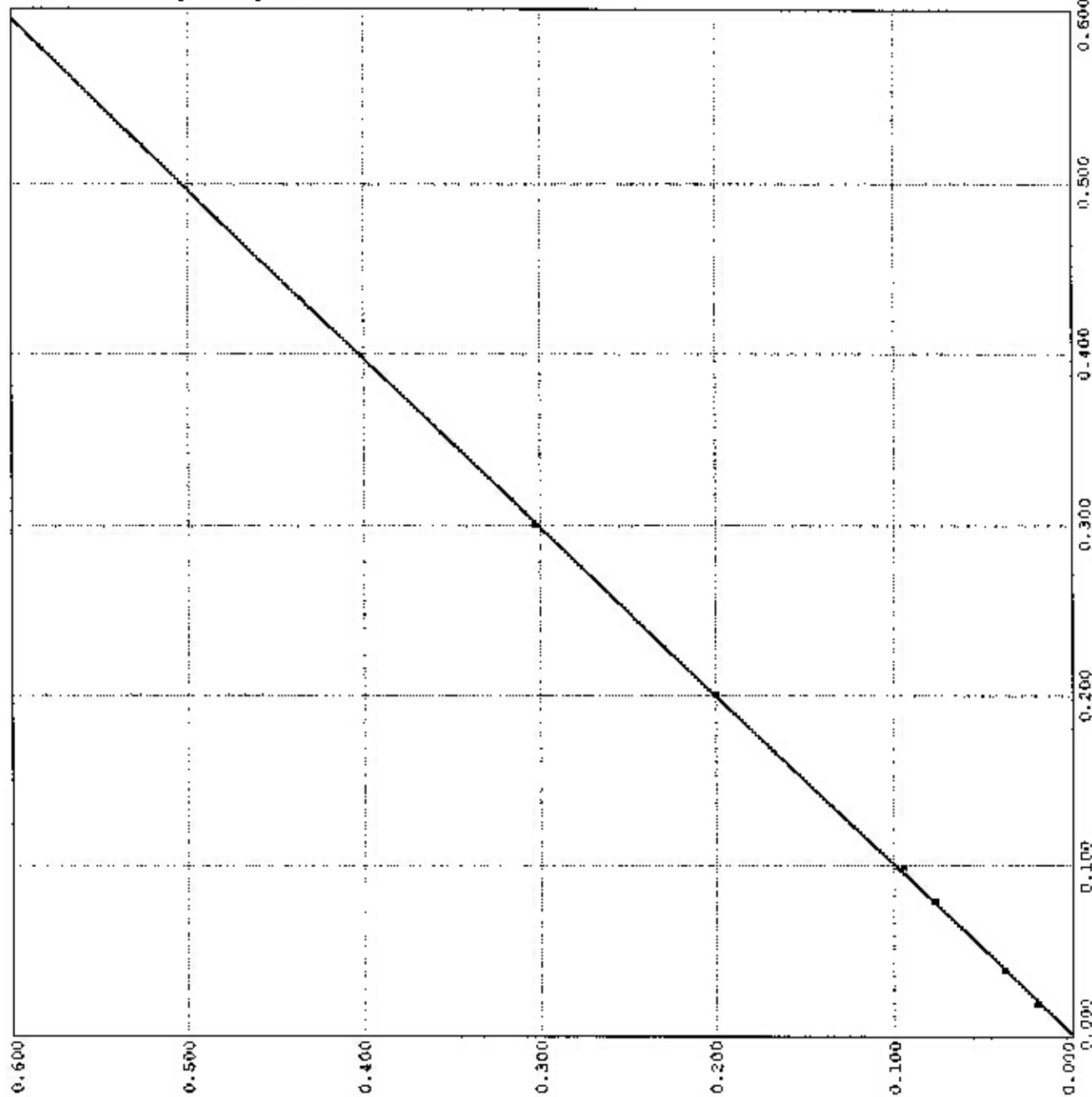
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.52: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:36
BLANK TEST	0.000	09:36
INTERNAL STANDARD	VERIFIED	09:36
EXTERNAL STANDARD	0.079	09:36
BLANK TEST	0.000	09:37
SUBJECT SAMPLE	0.000	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.078	09:40
BLANK TEST	0.000	09:41

COB



LINEARITY CHECK

Alaska Department of Public Safety
 DATEPASTER dmt: 100359

Date: 06/19/2014
 Time: 09:45:29

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0002
0.039	0.0392	0.0002
0.079	0.0785	0.0004
0.099	0.0956	0.0005
0.200	0.2007	0.0002
0.300	0.3040	0.0005

SLOPE = 1.012277
 R² = 0.999646

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100359

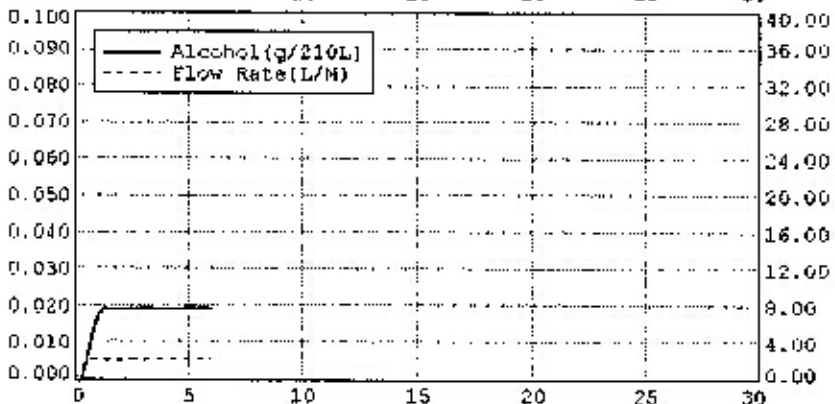
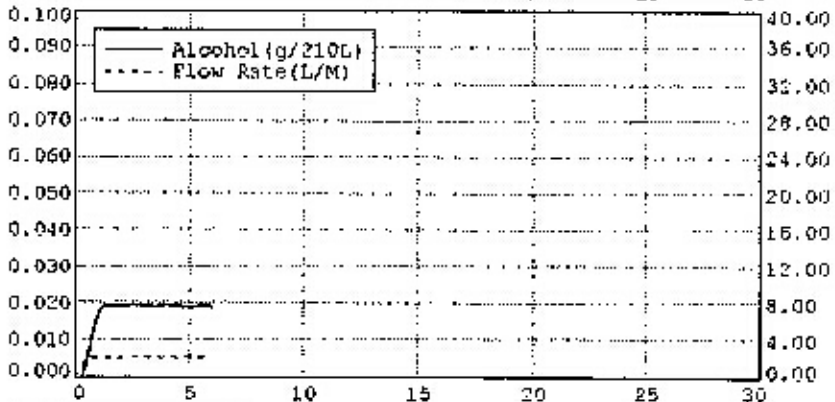
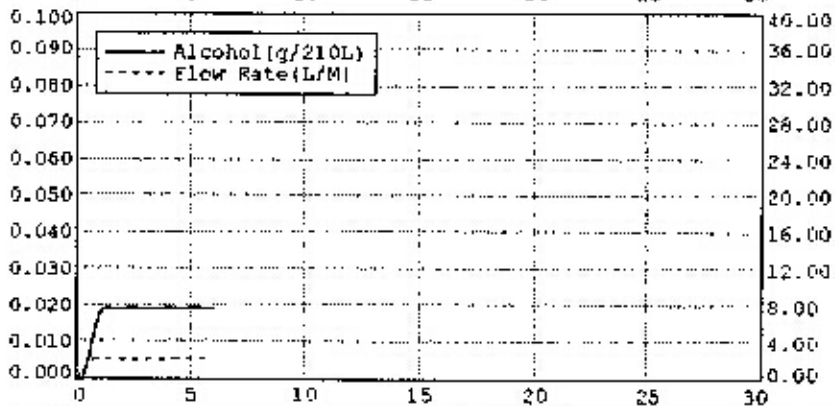
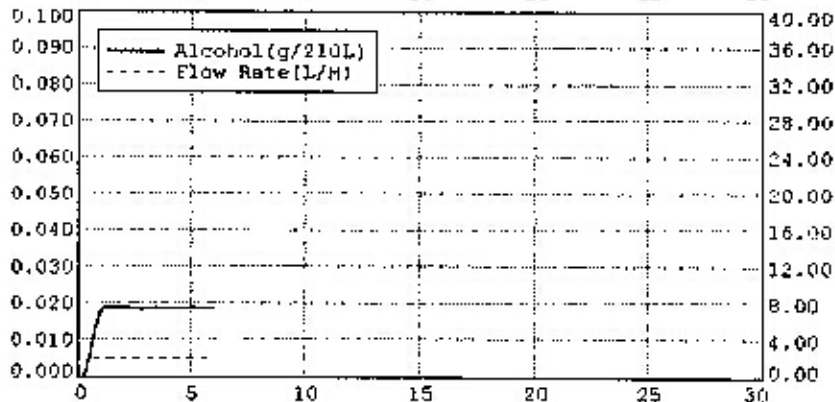
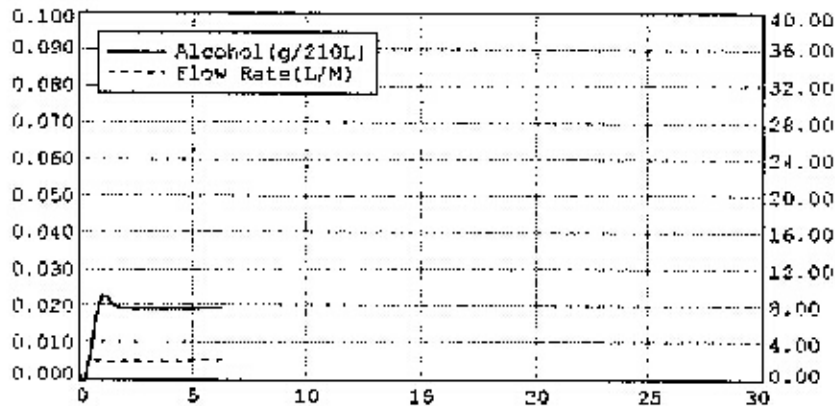
Date: 06/19/2014
 Time: 09:45:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.63; 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:47
EXTERNAL STANDARD	0.020	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.020	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.020	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.020	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.020	09:51
BLANK TEST	0.000	09:52

Average = 0.0205
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

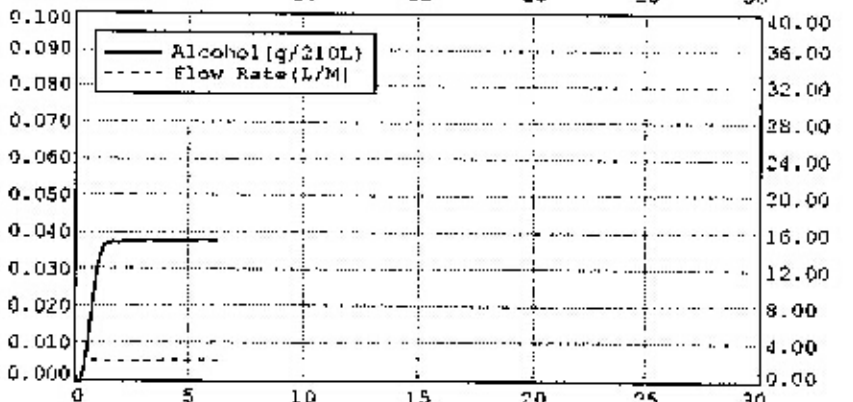
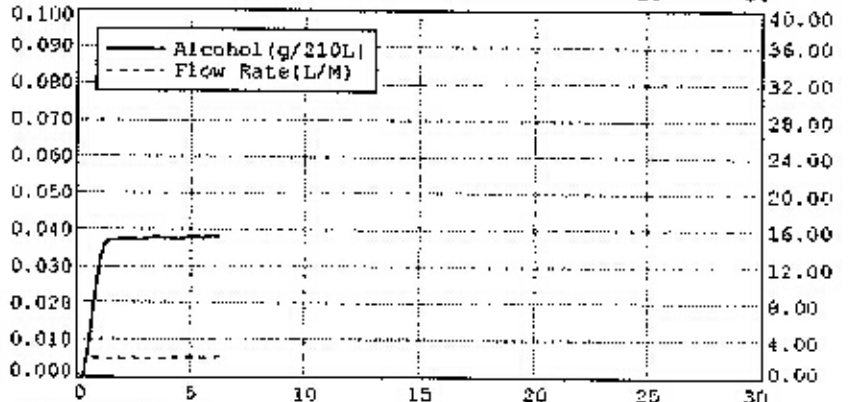
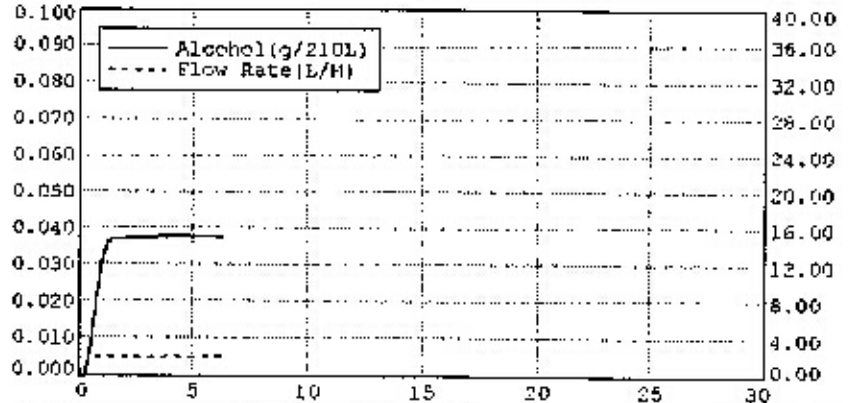
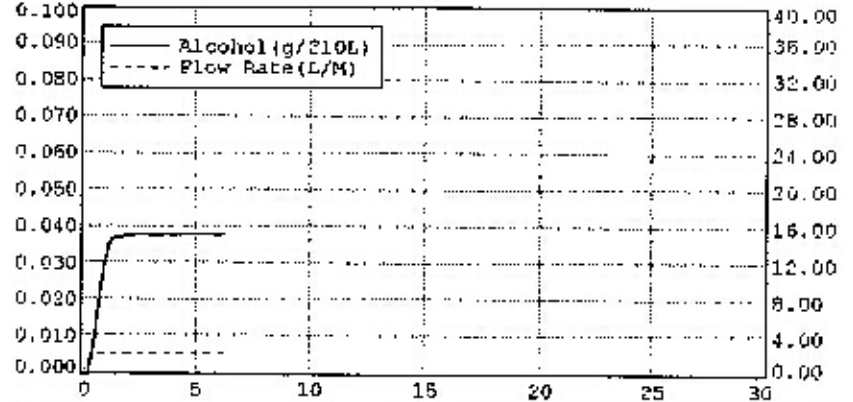
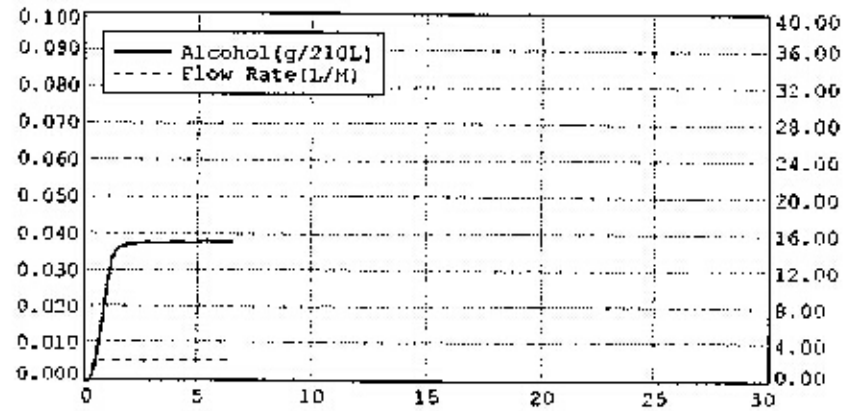
Date: 06/19/2014
 Time: 09:54:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.53: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:56
EXTERNAL STANDARD	0.039	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.039	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.039	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.039	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.038	10:00
BLANK TEST	0.000	10:01

Average = 0.0392
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER chm: 100359

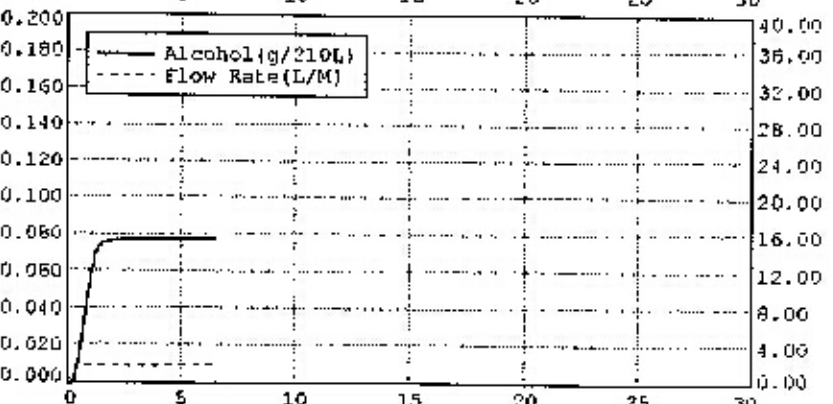
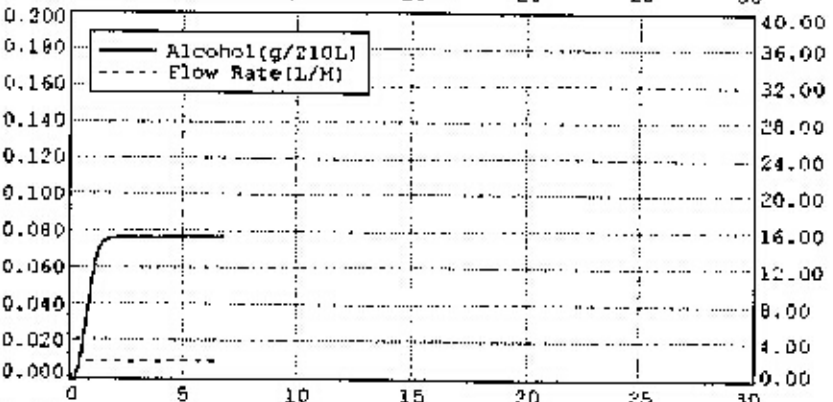
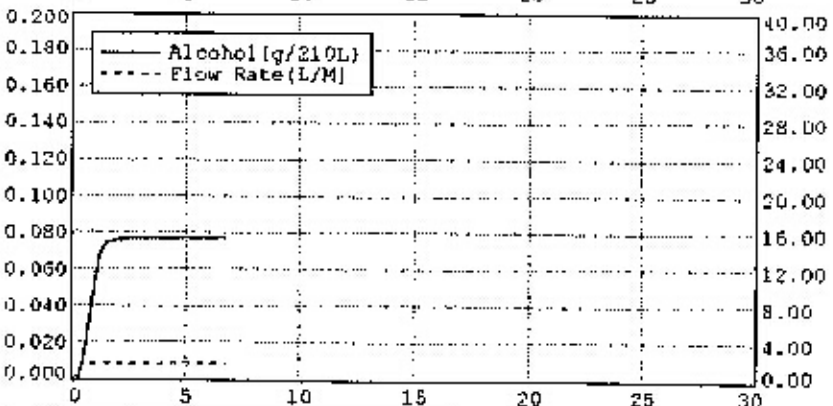
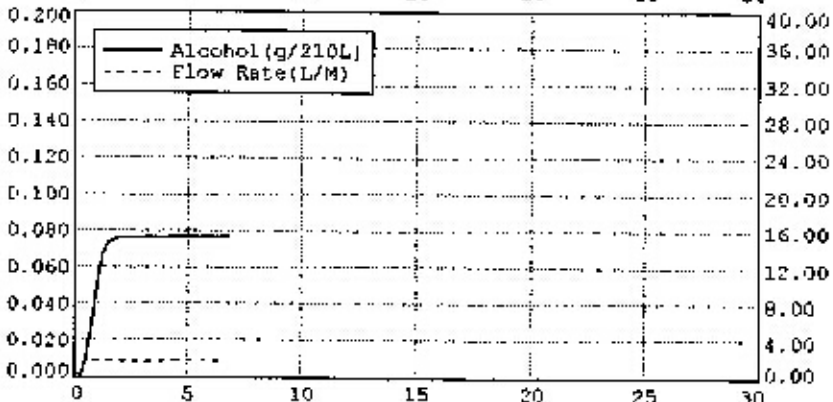
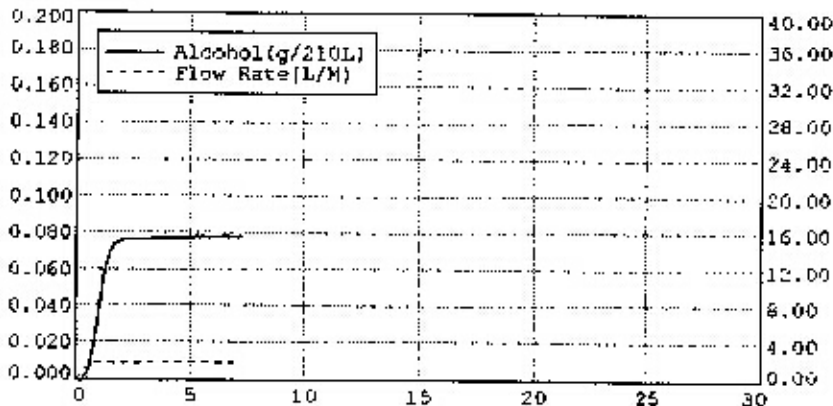
Date: 06/19/2014
 Time: 10:02:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 1131E080A1
 EXPIRATION: 06/01/2015

BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.079	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.078	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.078	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.078	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.078	10:08
BLANK TEST	0.000	10:09

Average = 0.0785
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt; 100359

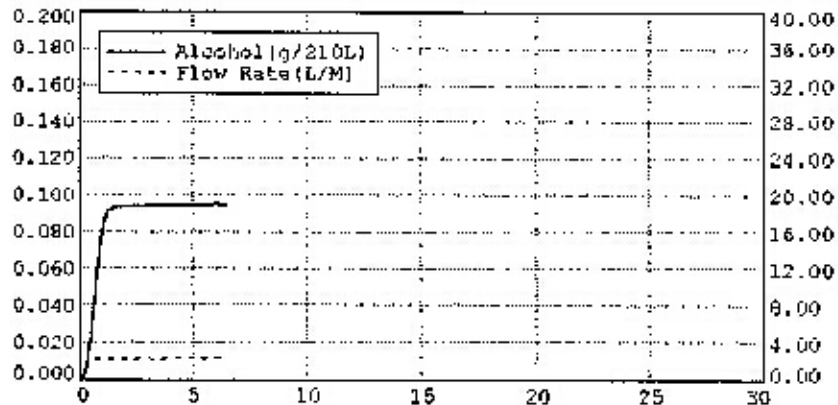
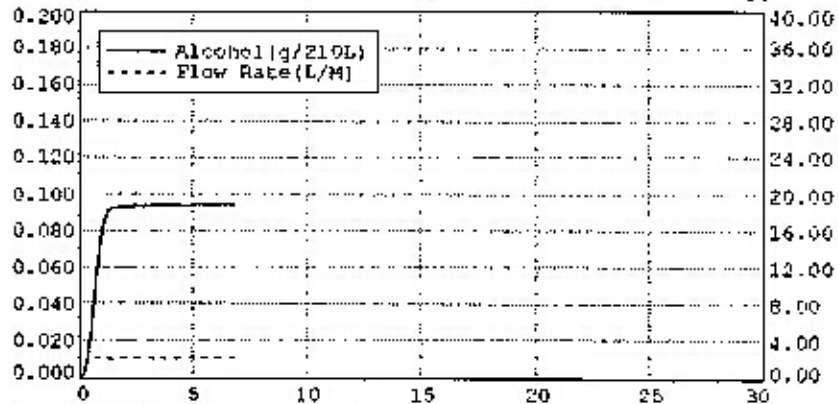
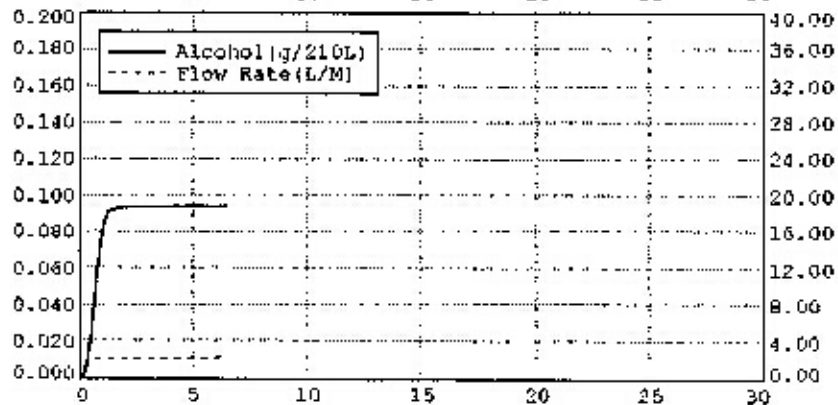
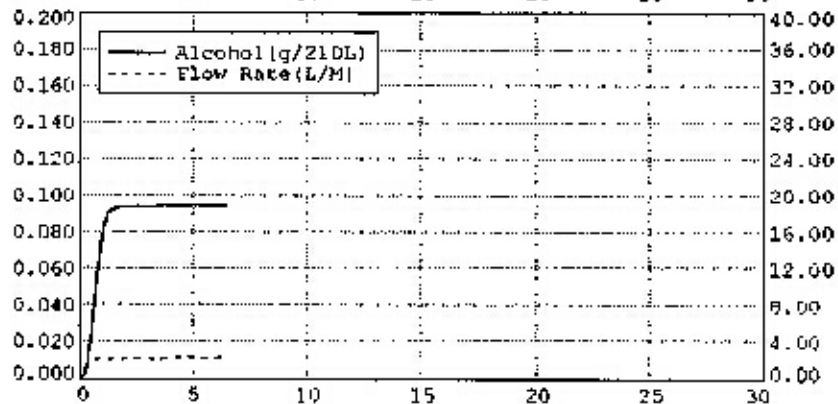
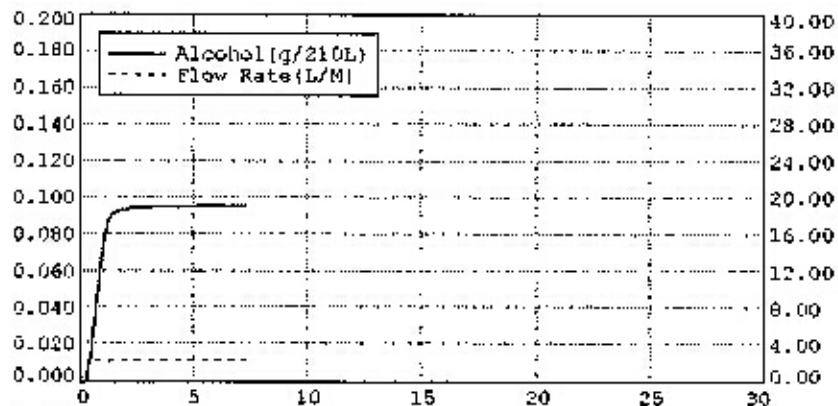
Date: 06/19/2014
 Time: 10:15:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.63: 0.099
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
EXTERNAL STANDARD	0.096	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.095	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.095	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.095	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.095	10:21
BLANK TEST	0.000	10:22

Average = 0.0956
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

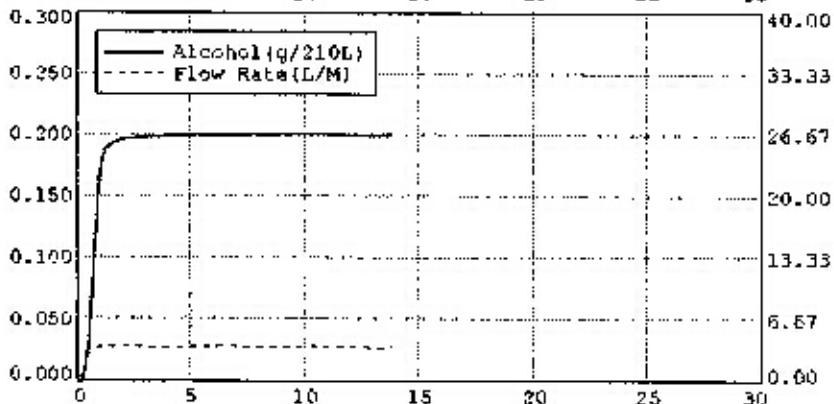
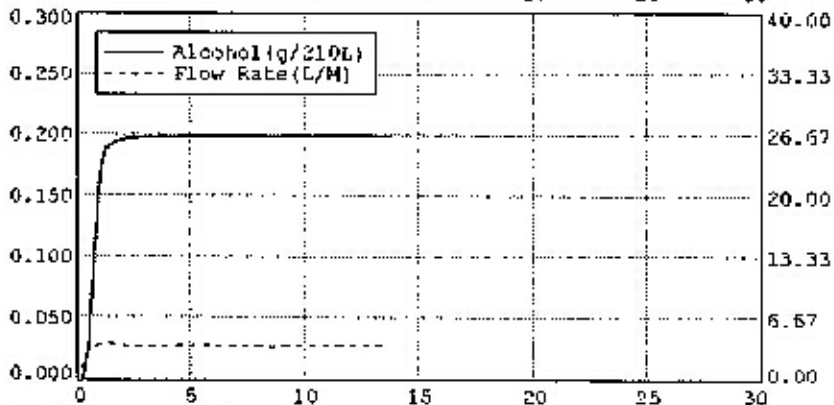
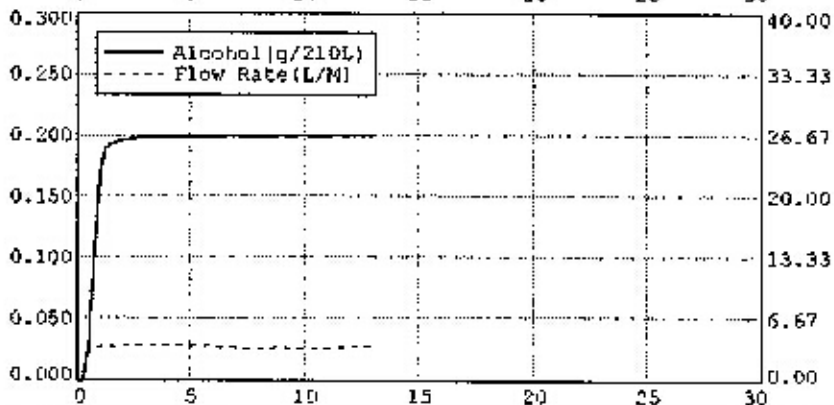
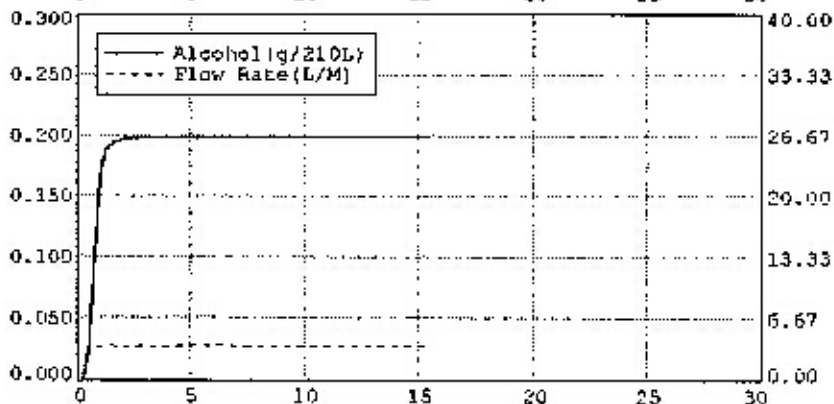
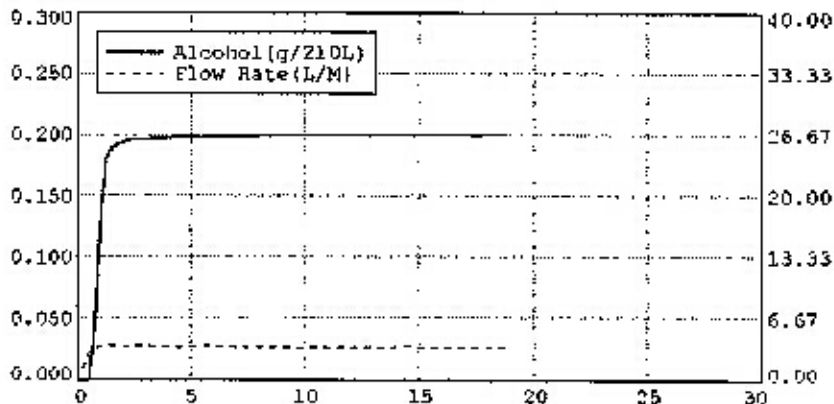
Date: 06/19/2014
 Time: 10:55:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
EXTERNAL STANDARD	0.201	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.200	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.200	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.200	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.200	11:01
BLANK TEST	0.000	11:02

Average = 0.2007
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100359

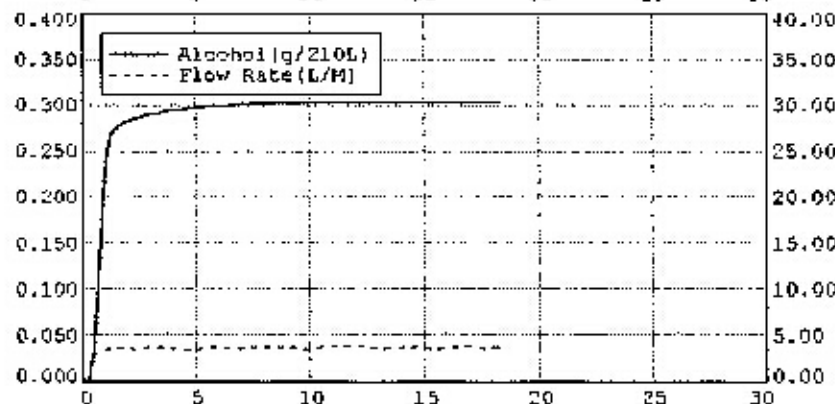
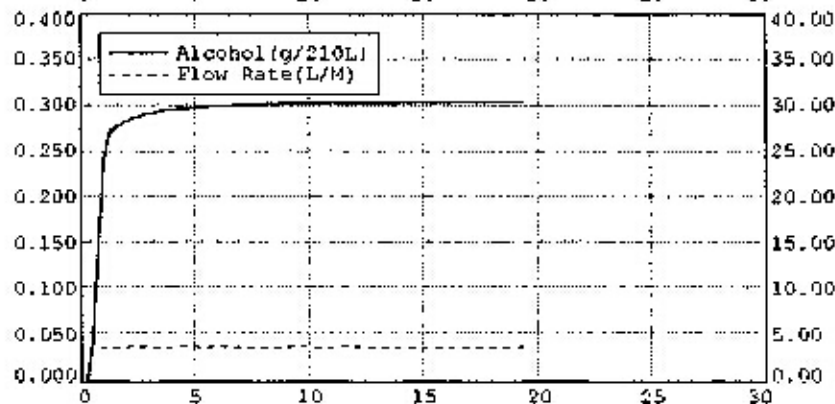
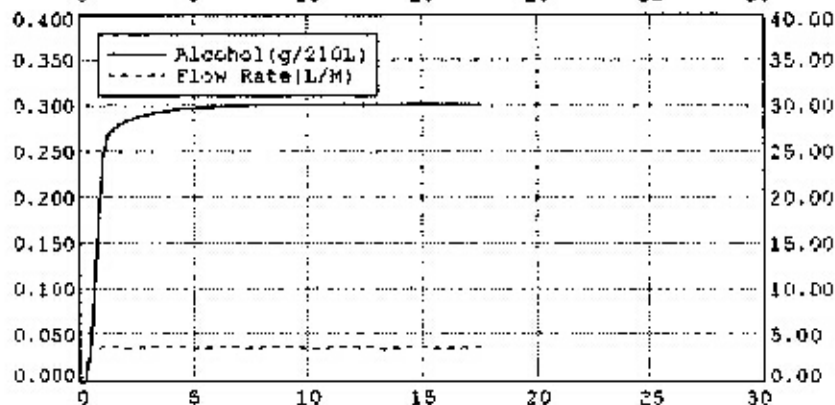
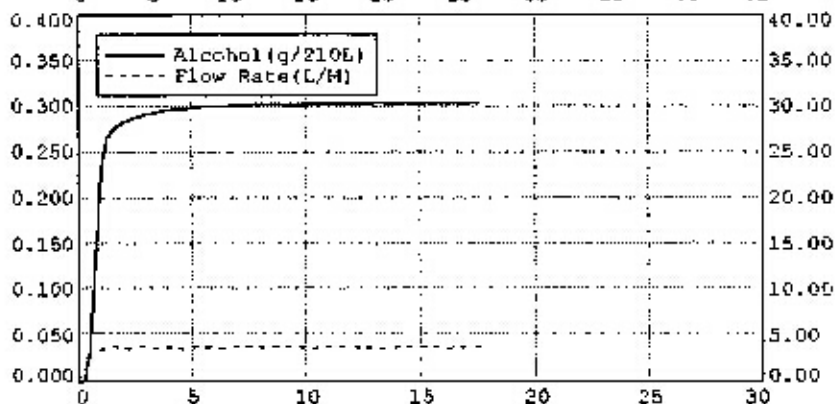
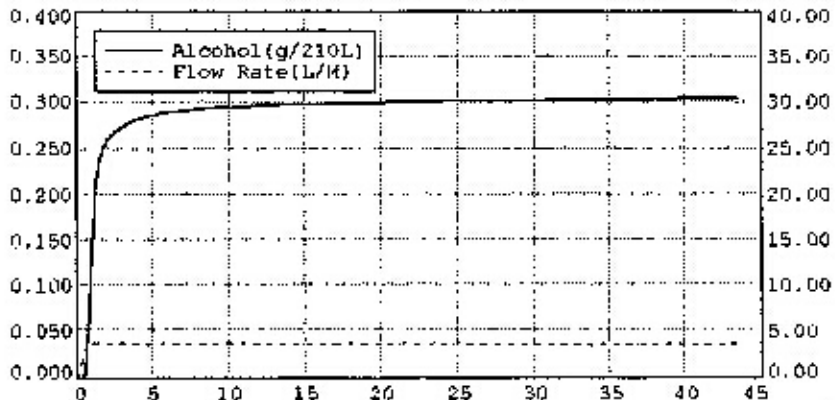
Date: 06/19/2014
 Time: 11:08:28

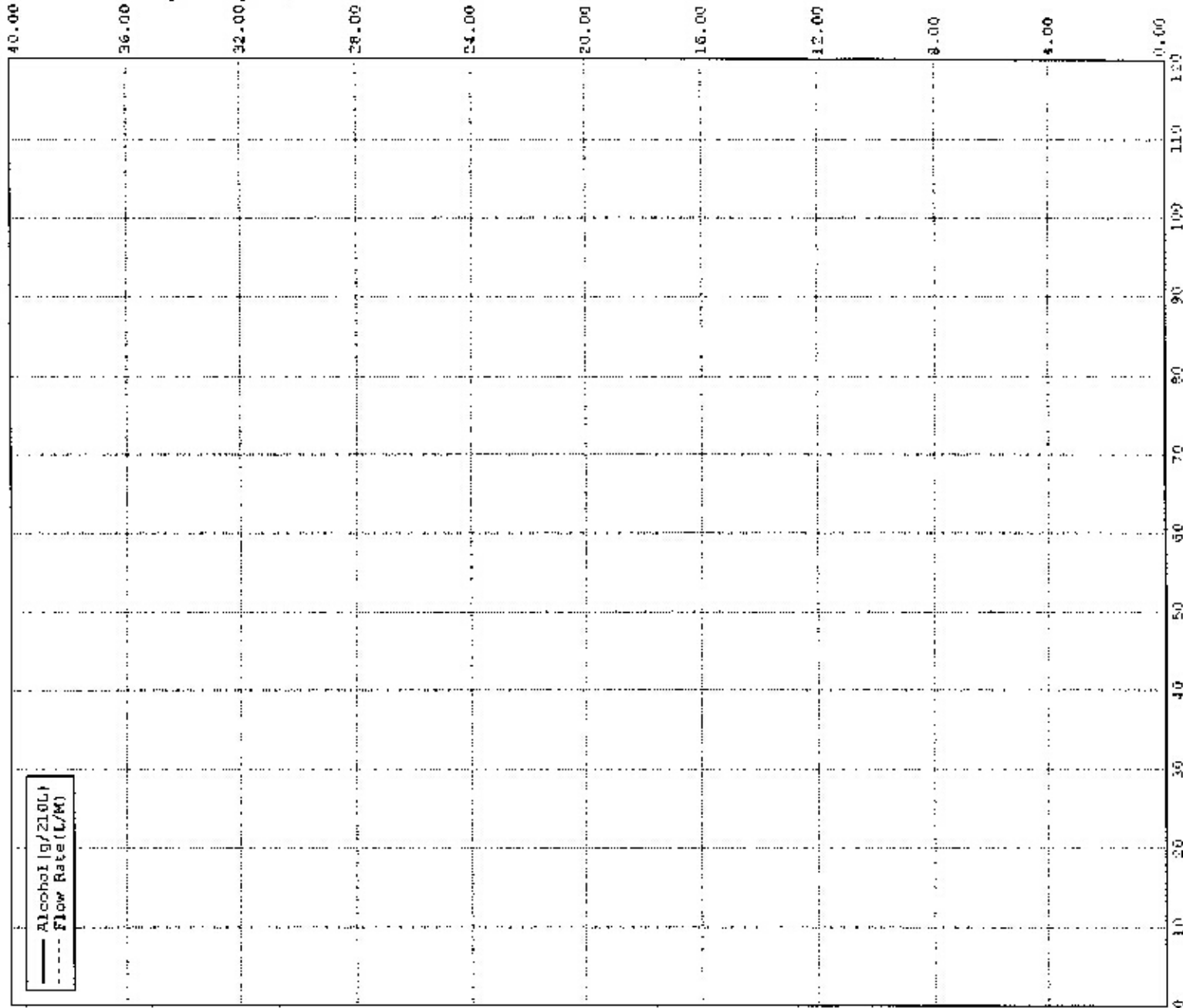
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:10
EXTERNAL STANDARD	0.304	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.303	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.303	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.304	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.304	11:16
BLANK TEST	0.000	11:17

Average = 0.3040
 Std Dev = 0.0005





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER cmt: 100359

 Date: 06/19/2014
 Time: 13:59:01

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

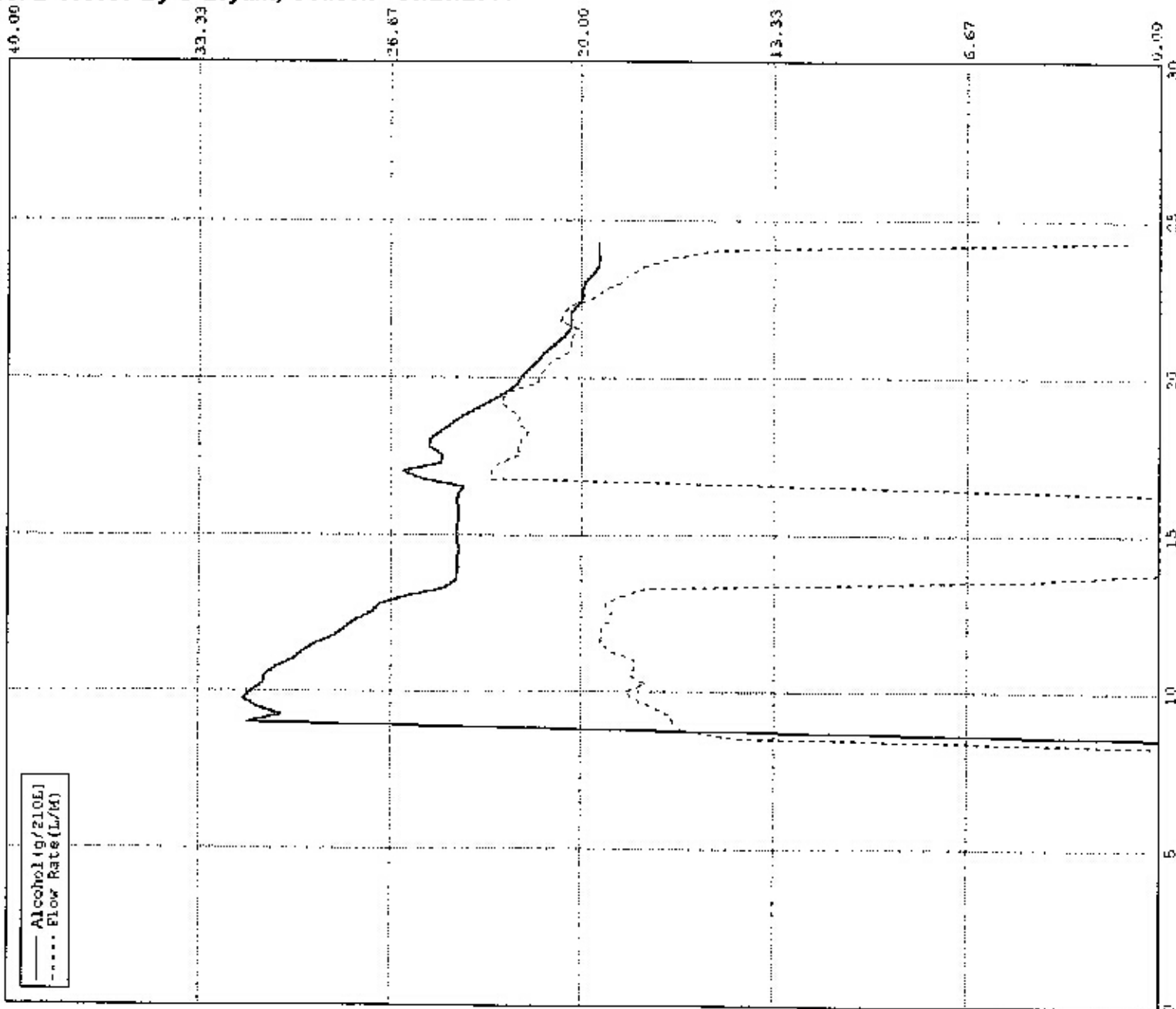
DEPT/AGENCY:
 AAA1

CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:00
BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.078	14:00
BLANK TEST	0.000	14:01
SUBJECT SAMPLE	INCOMPLETE	14:03

CAB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100359

Date: 06/19/2014
 Time: 14:04:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 14-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:07
BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.079	14:07
BLANK TEST	0.000	14:08
SUBJECT SAMPLE	INVALID	14:09

COB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100359

Date: 06/19/2014
 Time: 14:11:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACRNONE

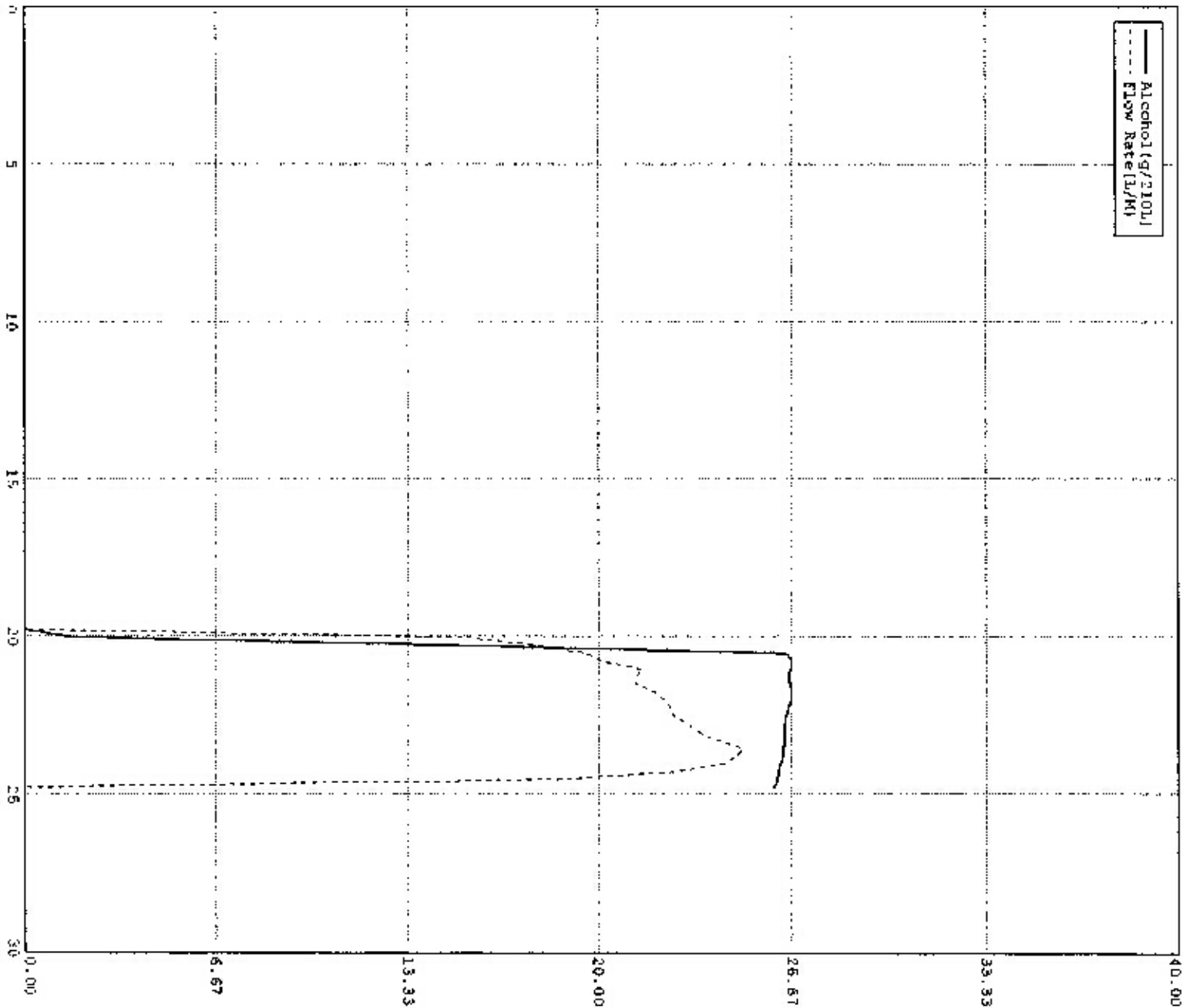
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.82: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:12
BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
Xg = 0.080 (0.00%)		
EXTERNAL STANDARD	0.078	14:13
X11 = 0.0766 (0.0002)	(0.0029)	
BLANK TEST	0.000	14:14
SUBJECT SAMPLE	INTERFERENCE	14:14
X11 = 0.1953 (-0.0109)	(0.0025)	

CRB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100359

Date: 06/19/2014
 Time: 14:26:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

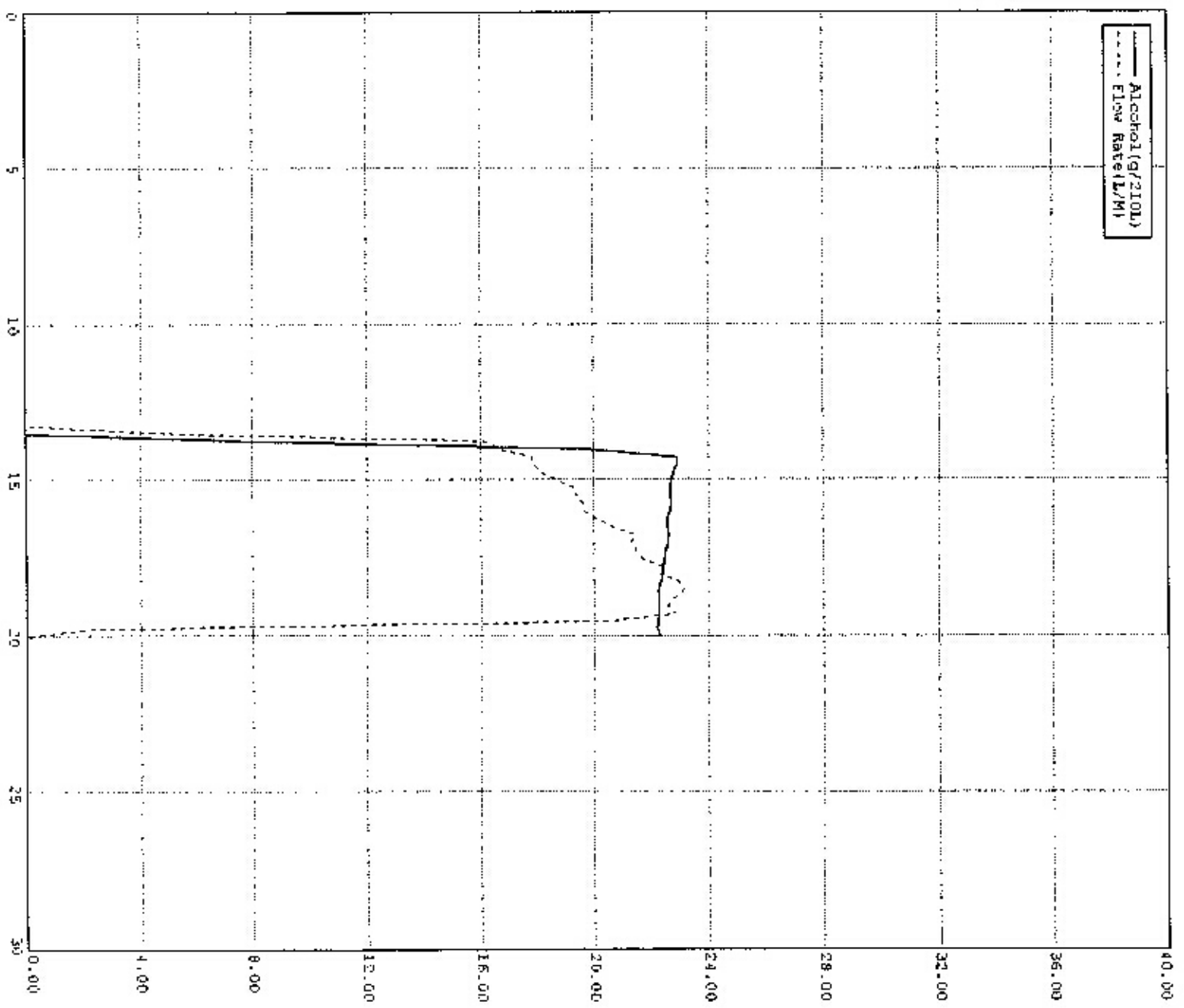
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:27
BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
Xq = 0.086 (0.33%)		
EXTERNAL STANDARD	0.079	14:28
X[1] = 0.0793 (0.0006)	(0.0024)	
BLANK TEST	0.000	14:29
SUBJECT SAMPLE	INTERFERENCE	14:29
X[1] = 0.1124 (-0.0200)	(0.0016)	

OK



SUBJECT TEST

Alaska Department of Public Safety
 DETMASTER dnr: 100359

Date: 06/19/2014
 Time: 14:31:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG

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

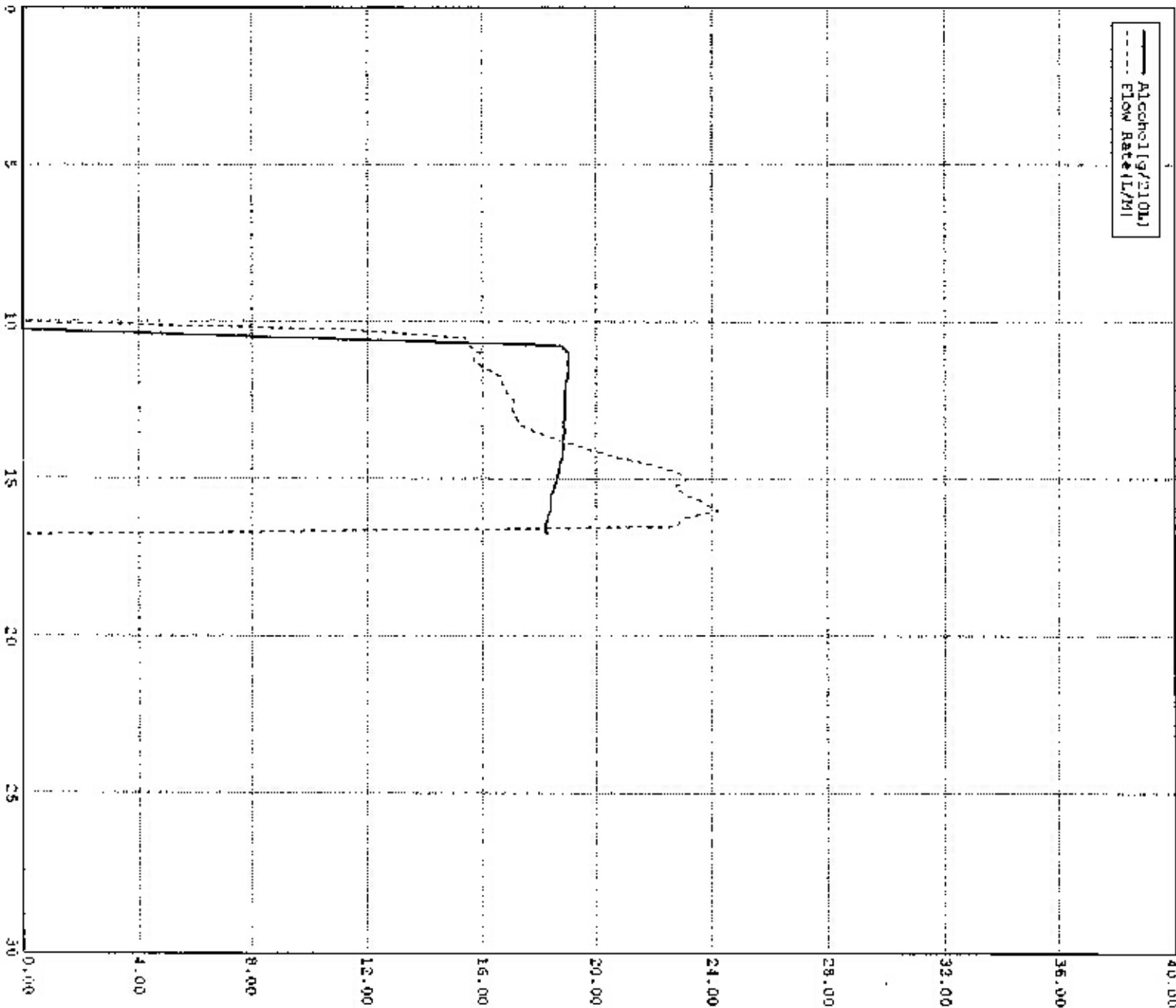
DEPT/AGENCY:
 AAAT
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.075
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
Xg = 0.060 (0.22%)		
EXTERNAL STANDARD	0.079	14:33
X(1) = 0.0790 (0.0005)	(0.0033)	
BLANK TEST	0.000	14:34
SUBJECT SAMPLE (Vol=2.06L)	0.092	14:34
X(1) = 0.0921 (0.0012)	(0.0007)	
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.077	14:35
X(1) = 0.0778 (-0.0001)	(0.0025)	
BLANK TEST	0.000	14:36

Filter 2 average (0.0003)
Filter 3 average (0.0014)
Filter 5 average (0.0007)

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 06/19/2014
 Time: 14:56:40

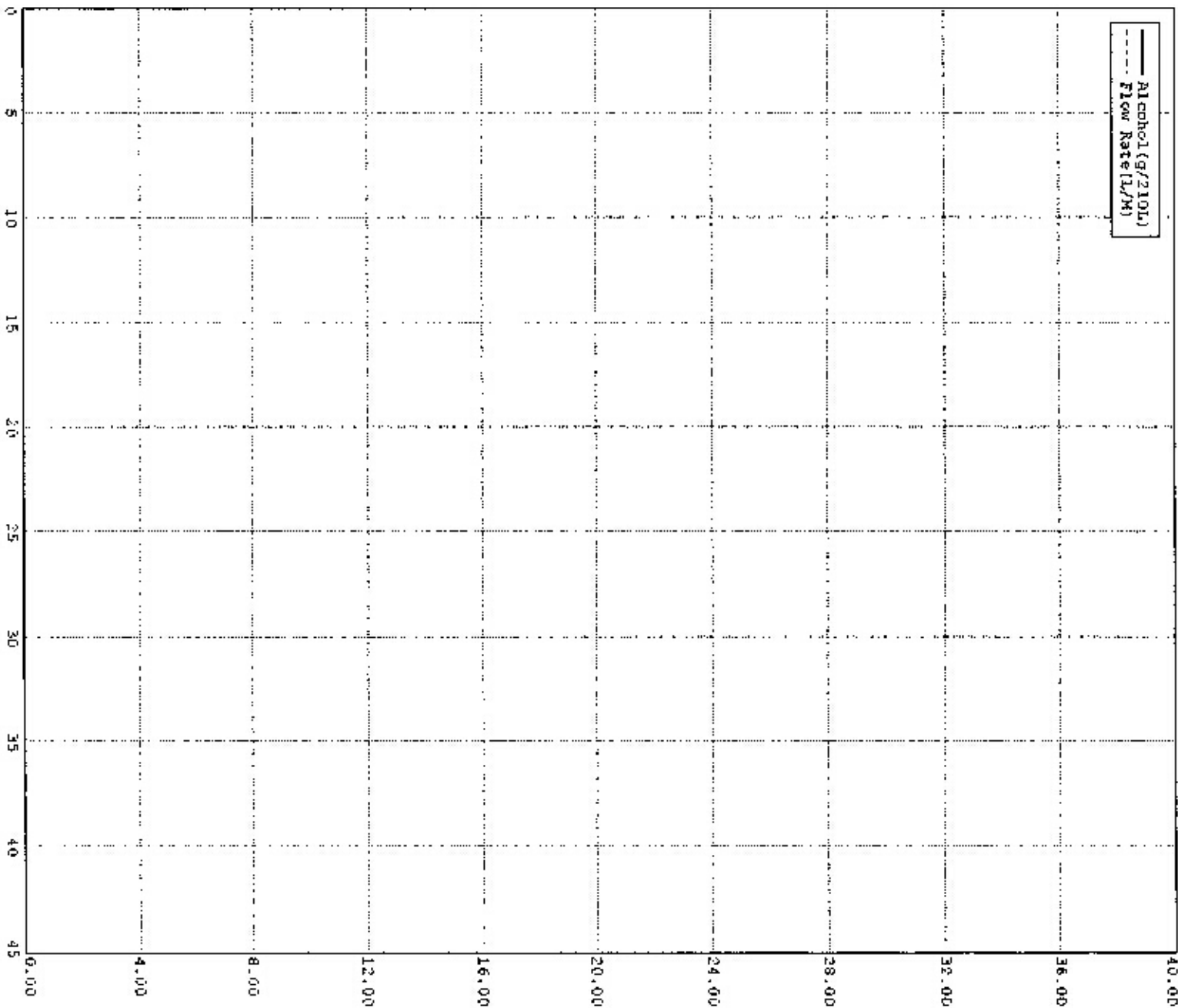
SUBJECT NAME:
 TEST TEST
 LICENSE #: RPI

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 5237

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:08
BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.078	15:09
BLANK TEST	0.000	15:10
RPI DETECTED		



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dmt: 100359

Date: 06/19/2014
 Time: 15:28:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

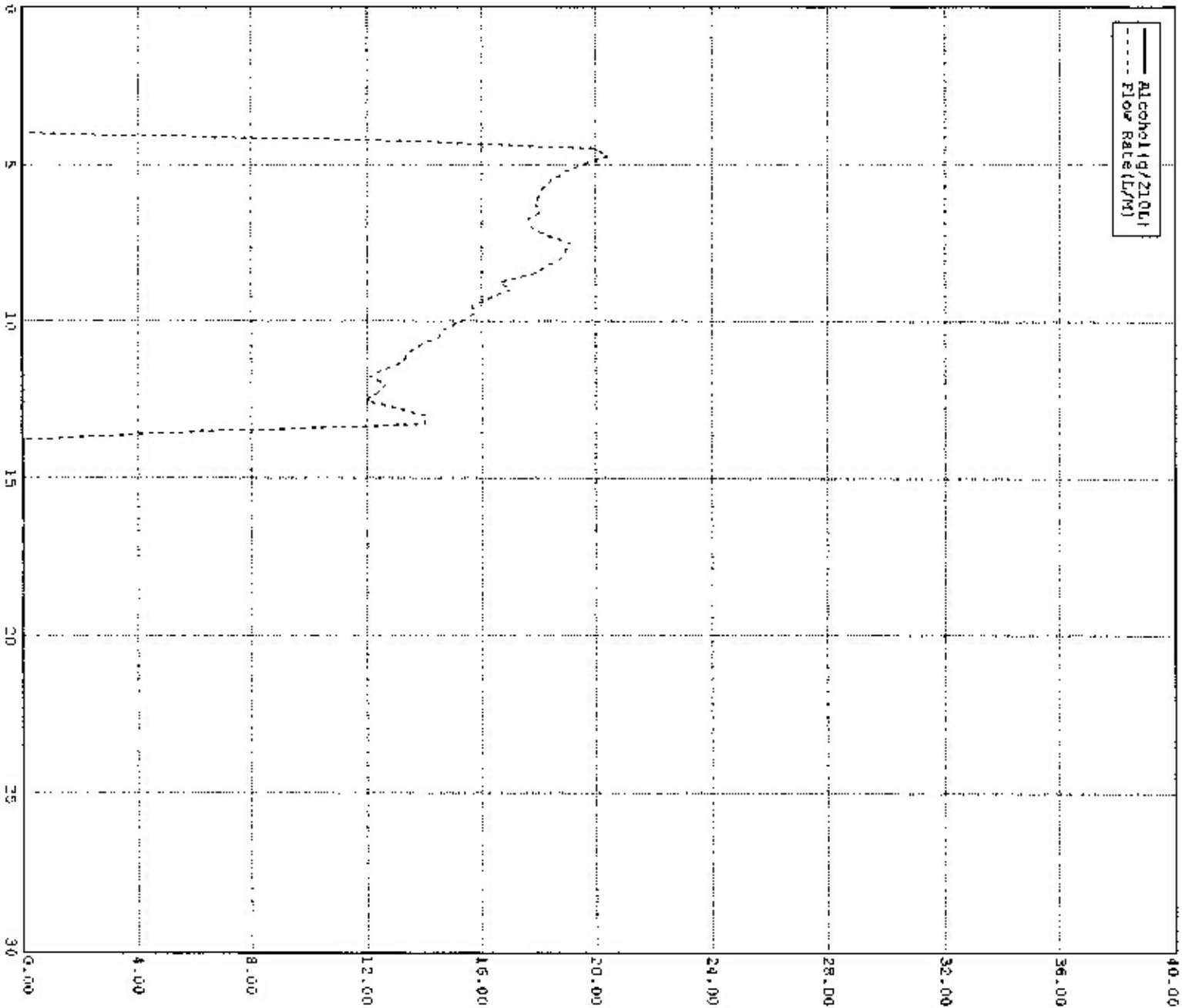
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AA01
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:30
BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.078	15:30
BLANK TEST	0.000	15:31
SUBJECT SAMPLE	0.000	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.079	15:33
BLANK TEST	0.000	15:33

OB



Final page for report

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6/27/2014