

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100697 Analyst Colleen O'Bryant Start Date 7/10/13

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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 00813000A1 Exp 3/1/15

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15

iii. 0.080g/210L Mnf ILMO Lot 22612080A1 Exp 9/1/14

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

1. Simulator S/N DR4162 Date Calibrated 10/9/12

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15

1. Simulator S/N DR4163 Date Calibrated 10/8/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N DR5098 Date Calibrated 10/8/12

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1170 Date Calibrated 10/9/12

d. 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

End Date 7/19/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 07/12/2013
Time: 08:24:04

VERSIONS

DMP: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.309 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 dmt: 100697

Date: 07/12/2013

Time: 9:27 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.4°C

Current Barometer 29.4 in

Volume (Ltr) 1.52

Settings

Lamp: 1.68 V

Bias: 80 V

Cooler: 1.63 V

Chopper: 540 Hz

Voltages (V)

Flow: 1.07 V

Detector: 0.051 V

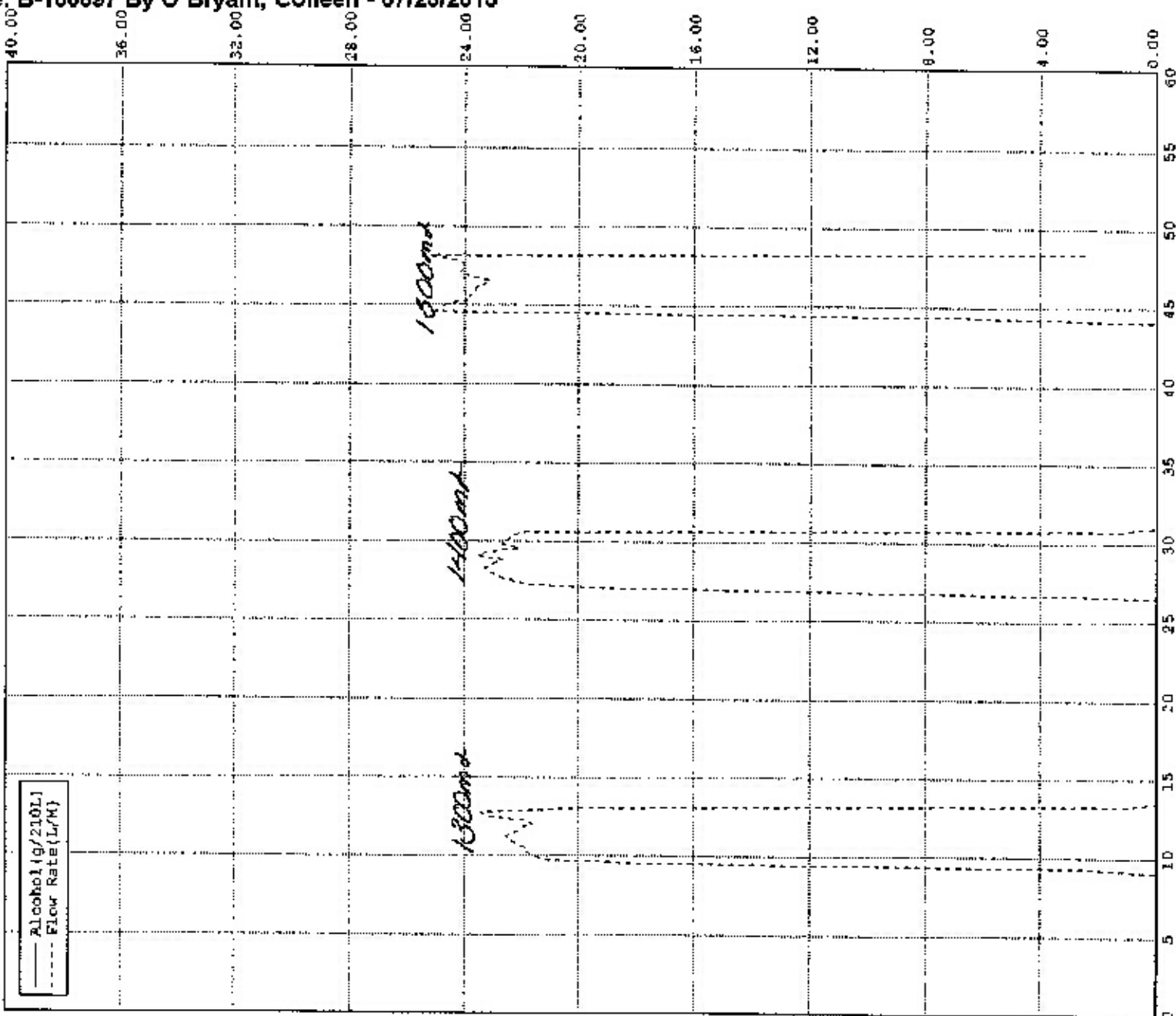
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 09/18/2012
Time: 12:41:18

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000			
CAL	=	1.000400	0.800	<=	CAL < 1.200
b1	=	0.0006	0.0000	<=	b1 < 0.0040
b2	=	0.0048	0.0010	<=	b2 < 0.0100
b3	=	0.0007	0.0000	<=	b3 < 0.0040
Xq	=	0.0864	0.0500	<=	Xq < 0.2000
a21	=	1.129466	1.050	<=	a21 < 1.300
a31	=	0.479692	0.300	<=	a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100697

Date: 07/12/2013
 Time: 09:28:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	09:29
BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
EXTERNAL STANDARD	0.079	09:30
BLANK TEST	0.000	09:30
SUBJECT SAMPLE	0.000	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33

CAS

LINEARITY CHECK

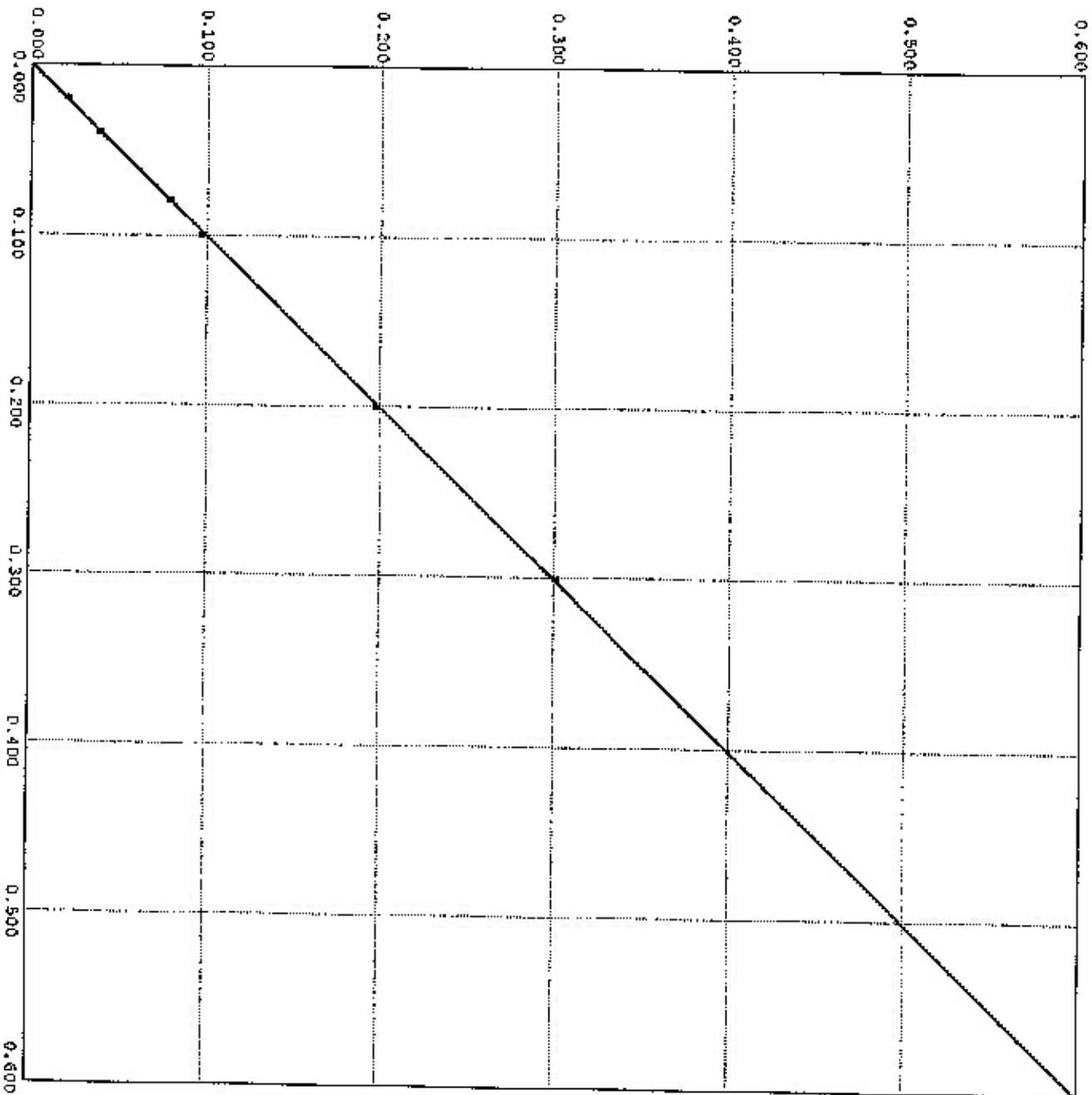
Alaska Department of Public Safety
 DATAMASTER dnt: 100697

Date: 07/15/2013
 Time: 13:36:35

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0211	0.0003
0.039	0.0401	0.0004
0.079	0.0798	0.0002
0.099	0.0978	0.0002
0.200	0.1990	0.0002
0.300	0.3015	0.0003

SLOPE = 0.997639
 R² = 0.999844



CRB

LINEARITY CHECK: Control Test 1

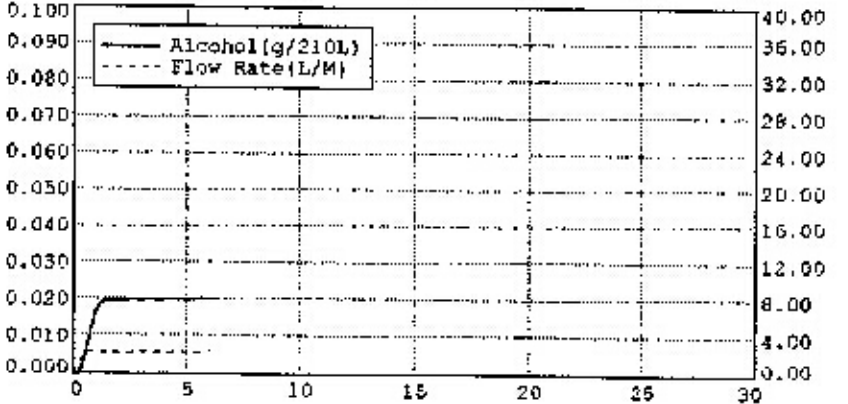
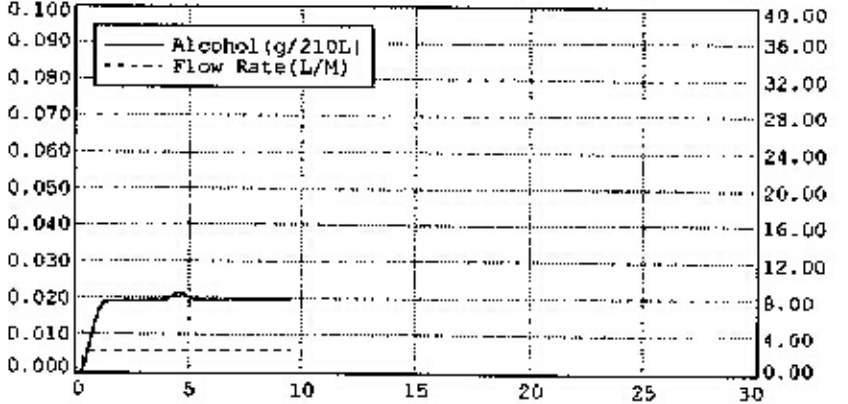
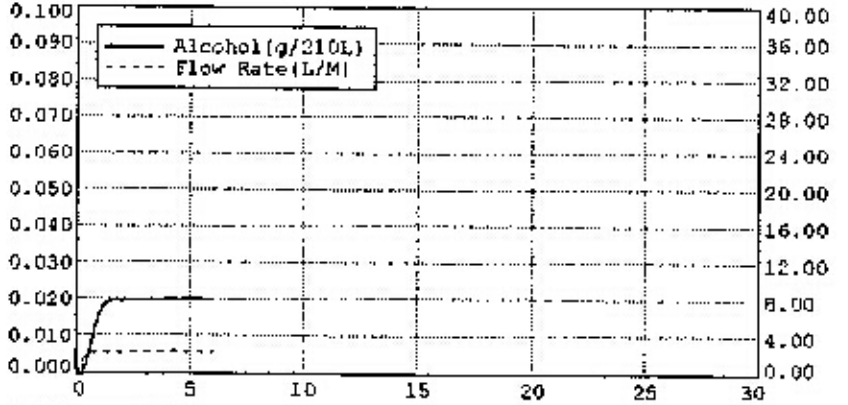
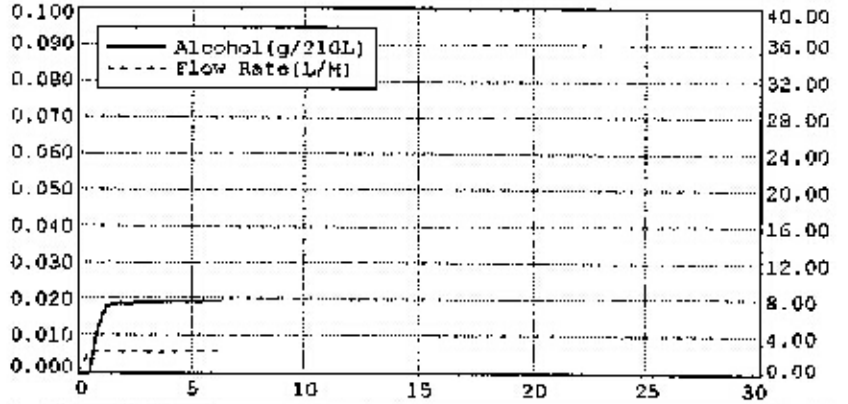
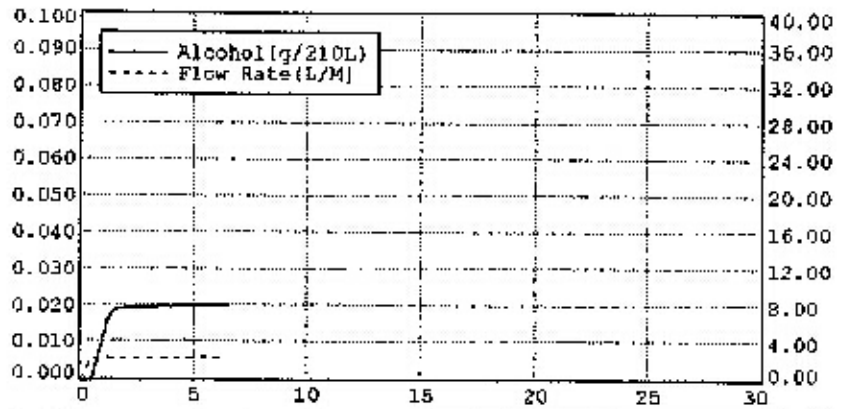
Alaska Department of Public Safety
 DATAMASTER dnt: 100697

Date: 07/15/2013
 Time: 13:36:36

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.81: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.021	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.020	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.021	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.021	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.021	14:29
BLANK TEST	0.000	14:30

Average = 0.0211
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100697

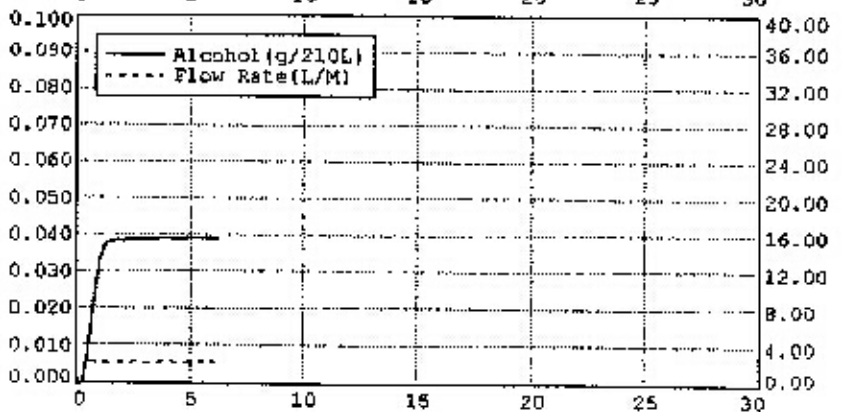
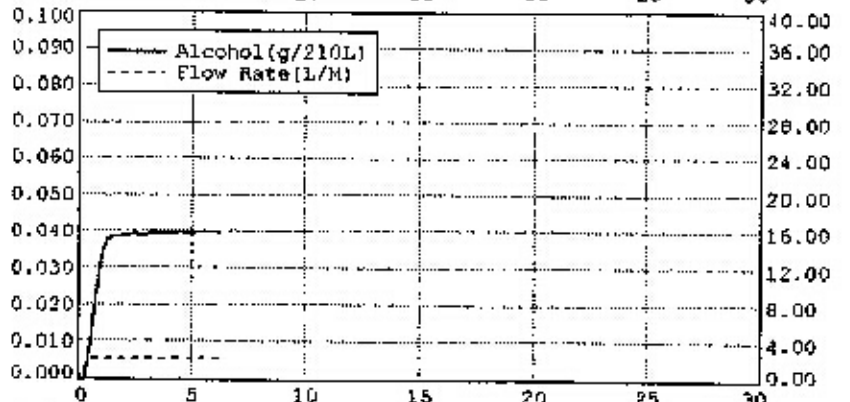
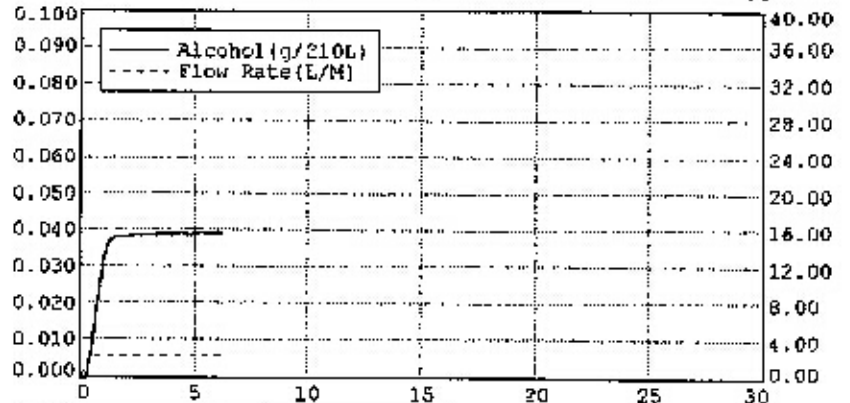
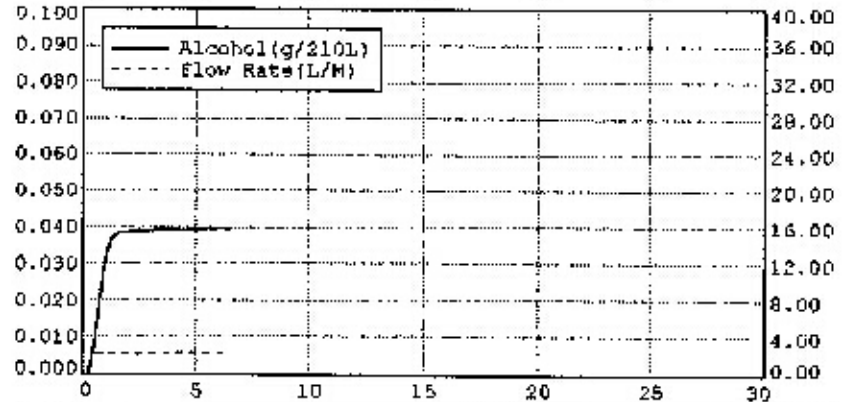
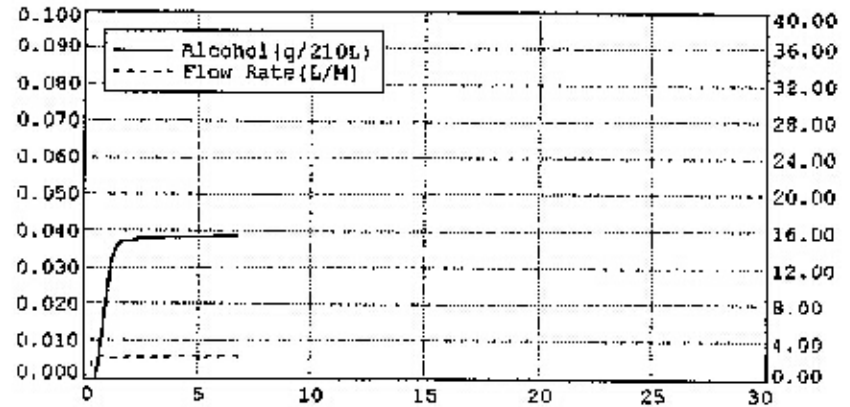
Date: 07/15/2013
 Time: 14:38:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.81: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.039	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.040	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.040	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.040	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.040	14:44
BLANK TEST	0.000	14:45

Average = 0.0401
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100697

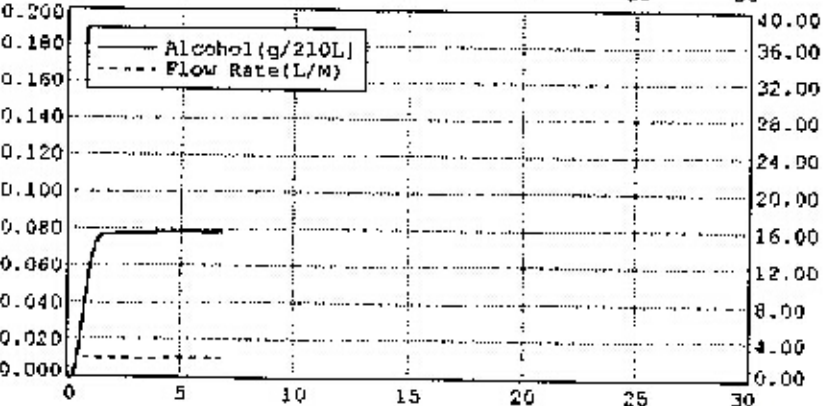
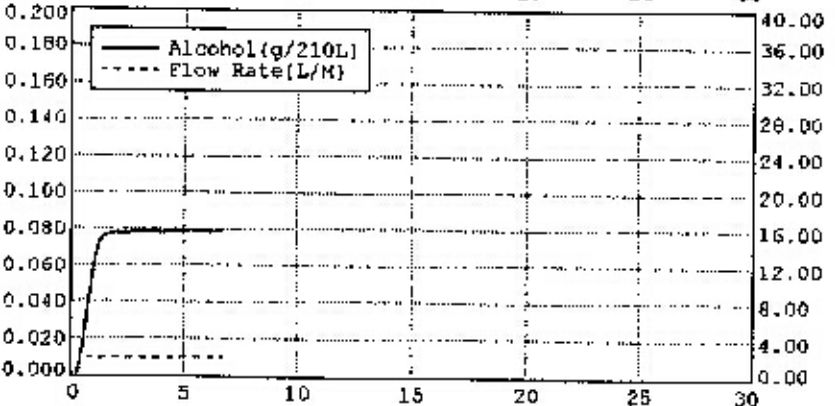
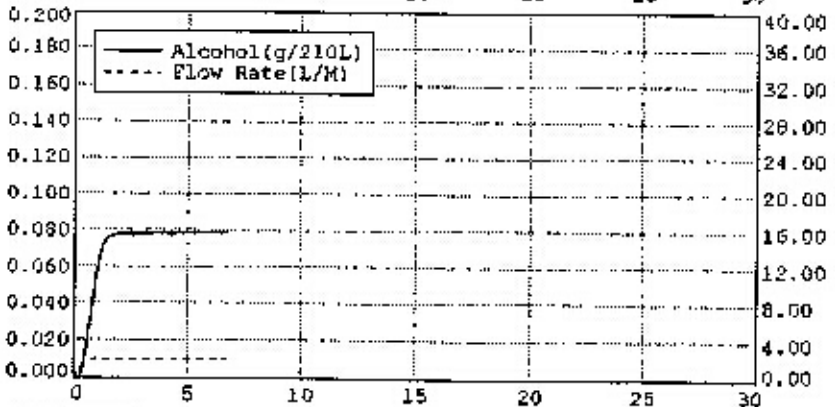
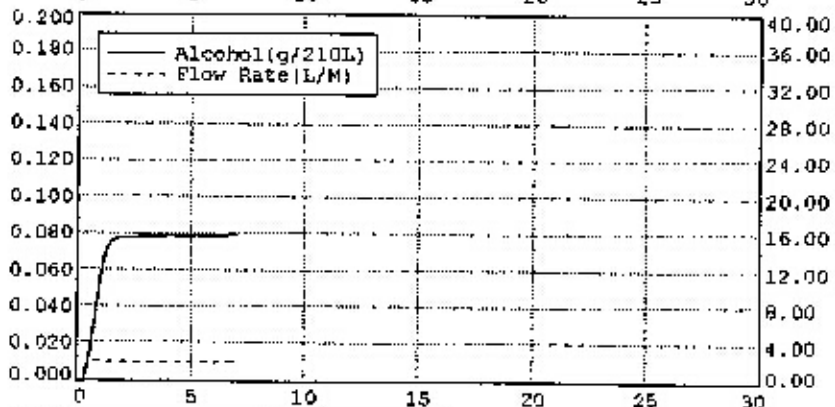
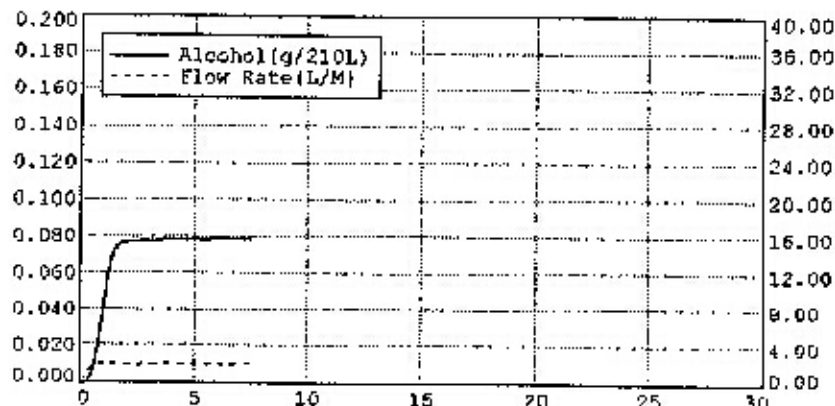
Date: 07/15/2013
 Time: 14:50:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.079	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.080	14:55
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.079	14:56
BLANK TEST	0.000	14:57

Average = 0.0798
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100697

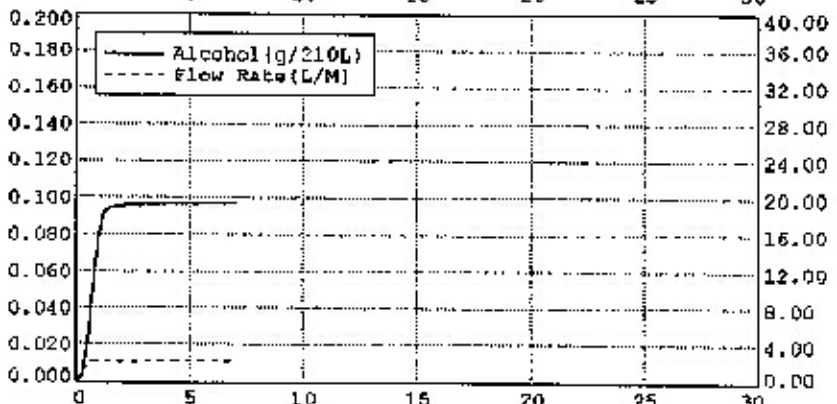
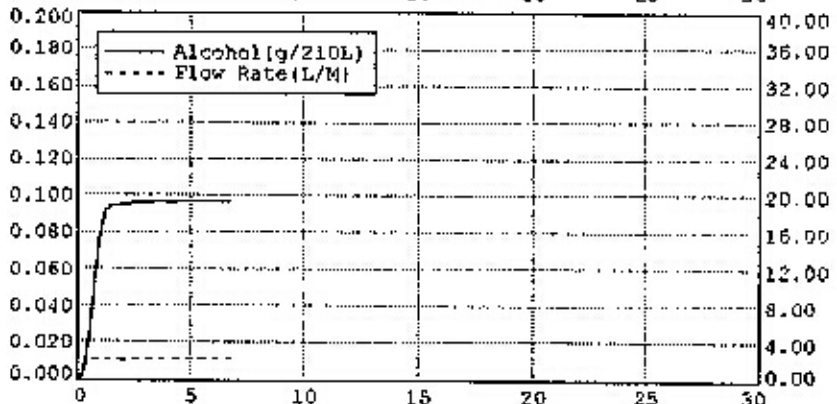
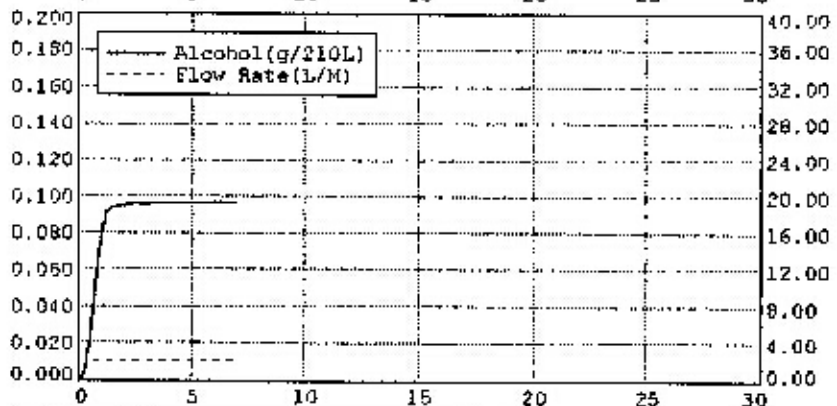
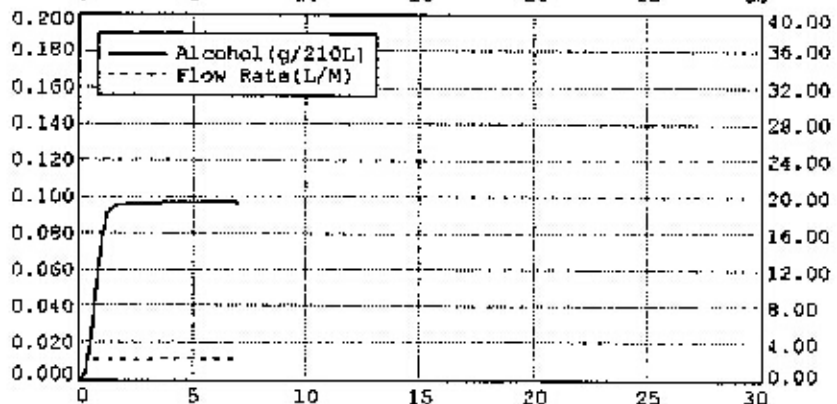
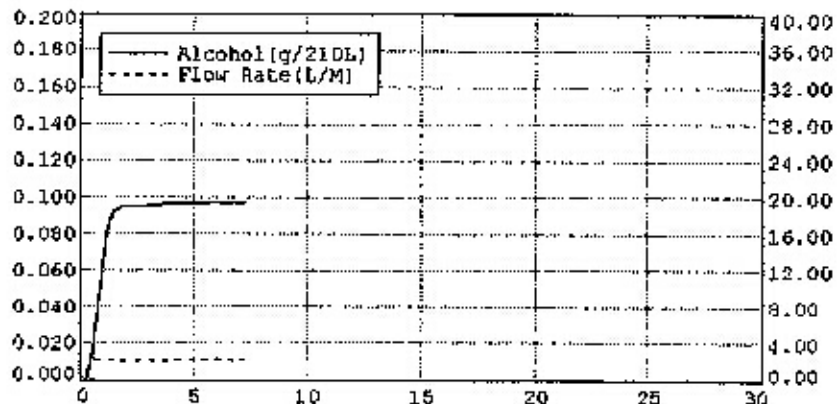
Date: 07/15/2013
 Time: 14:59:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.80: 0.099
 LOT #: 00613100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.097	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.097	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.097	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.097	15:05
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.097	15:06
BLANK TEST	0.000	15:07

Average = 0.0978
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100697

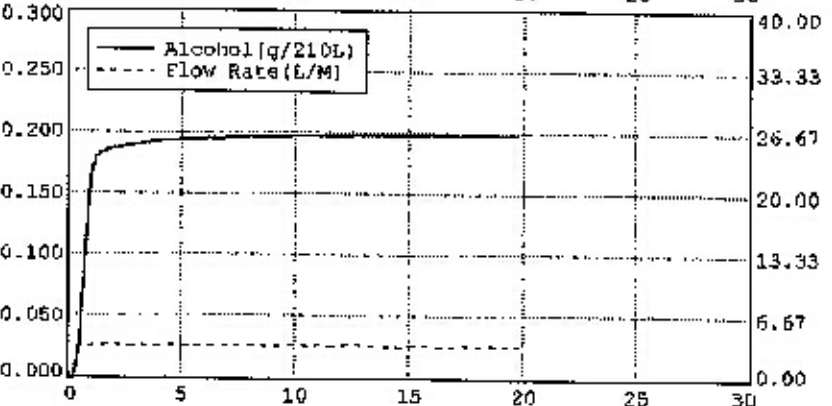
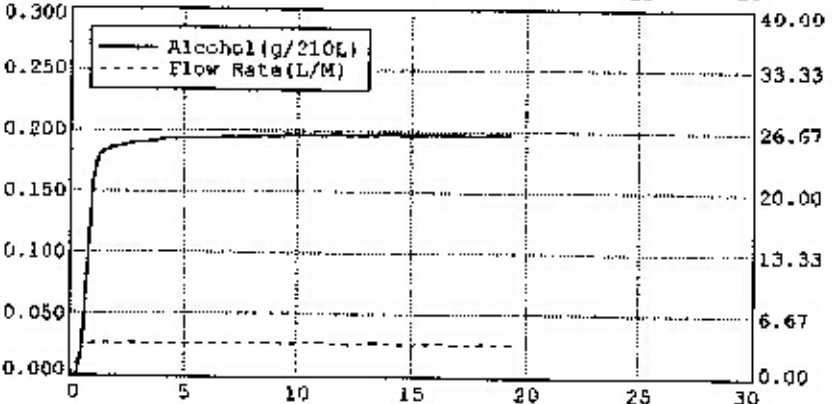
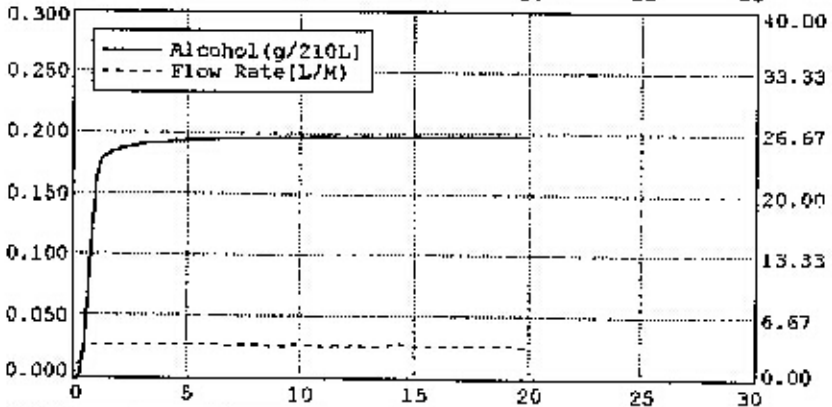
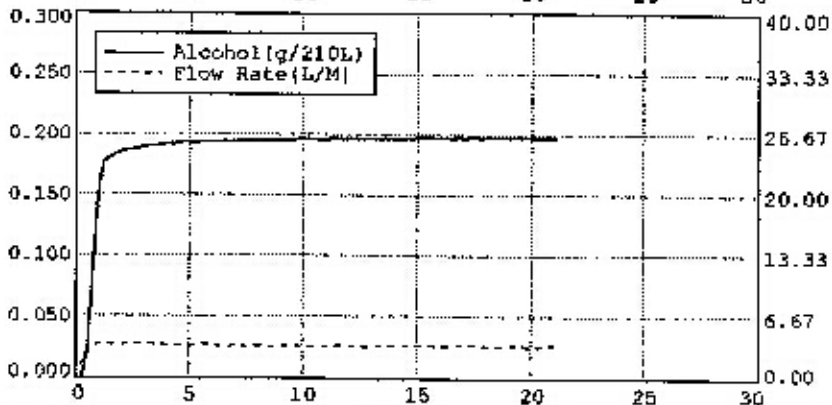
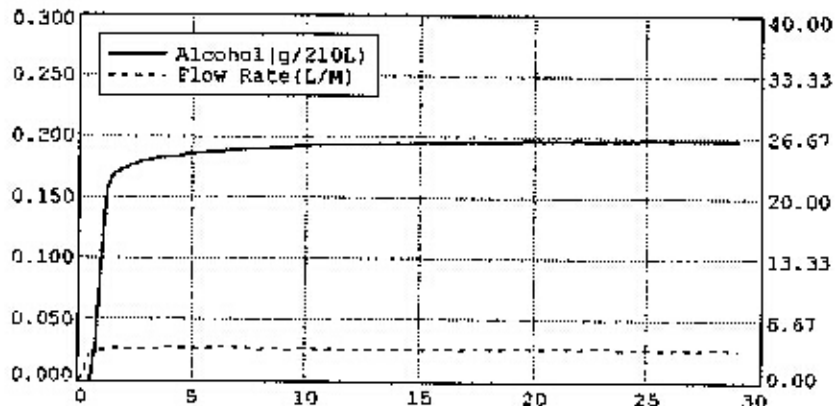
Date: 07/15/2013
Time: 15:08:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 1212D
EXPIRATION: 08/10/2014

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.198	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.198	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.198	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.198	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.199	15:15
BLANK TEST	0.000	15:16

Average = 0.1990
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dat: 100697

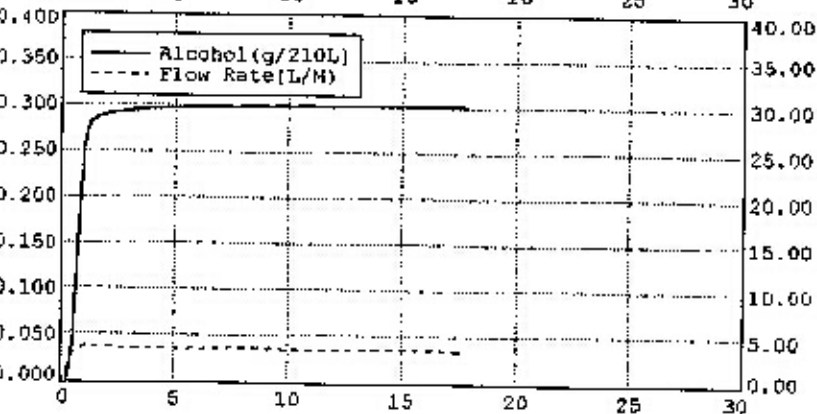
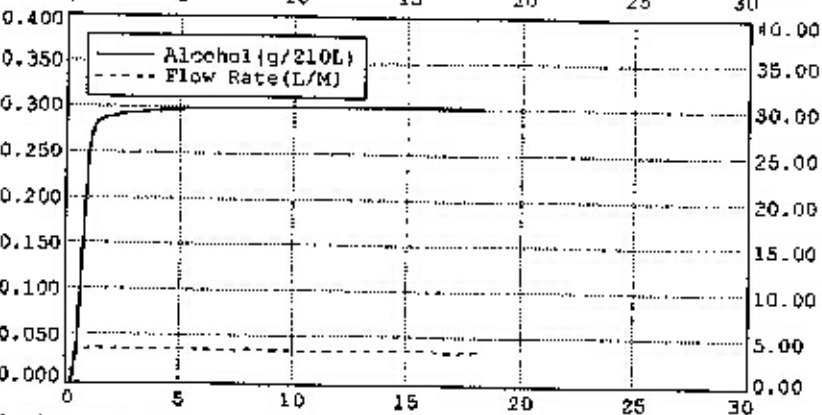
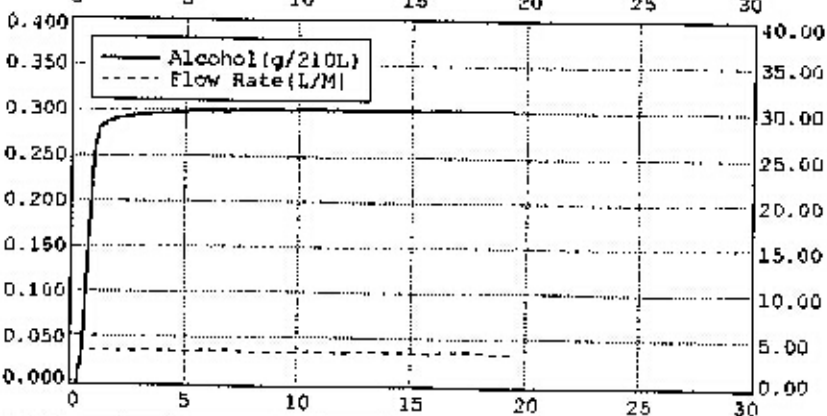
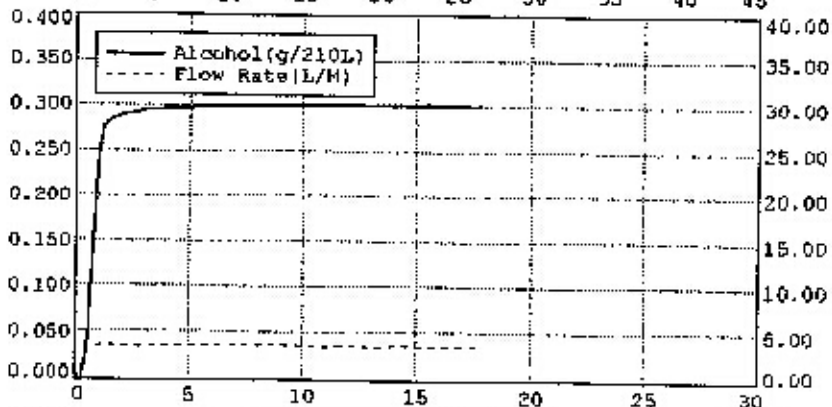
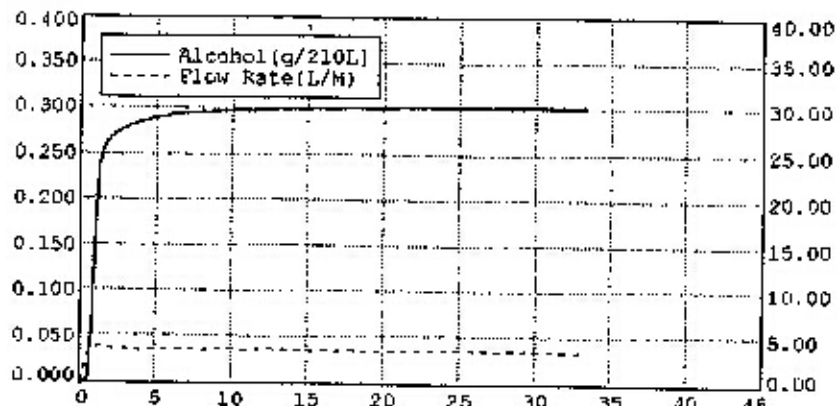
Date: 07/15/2013
 Time: 15:19:15

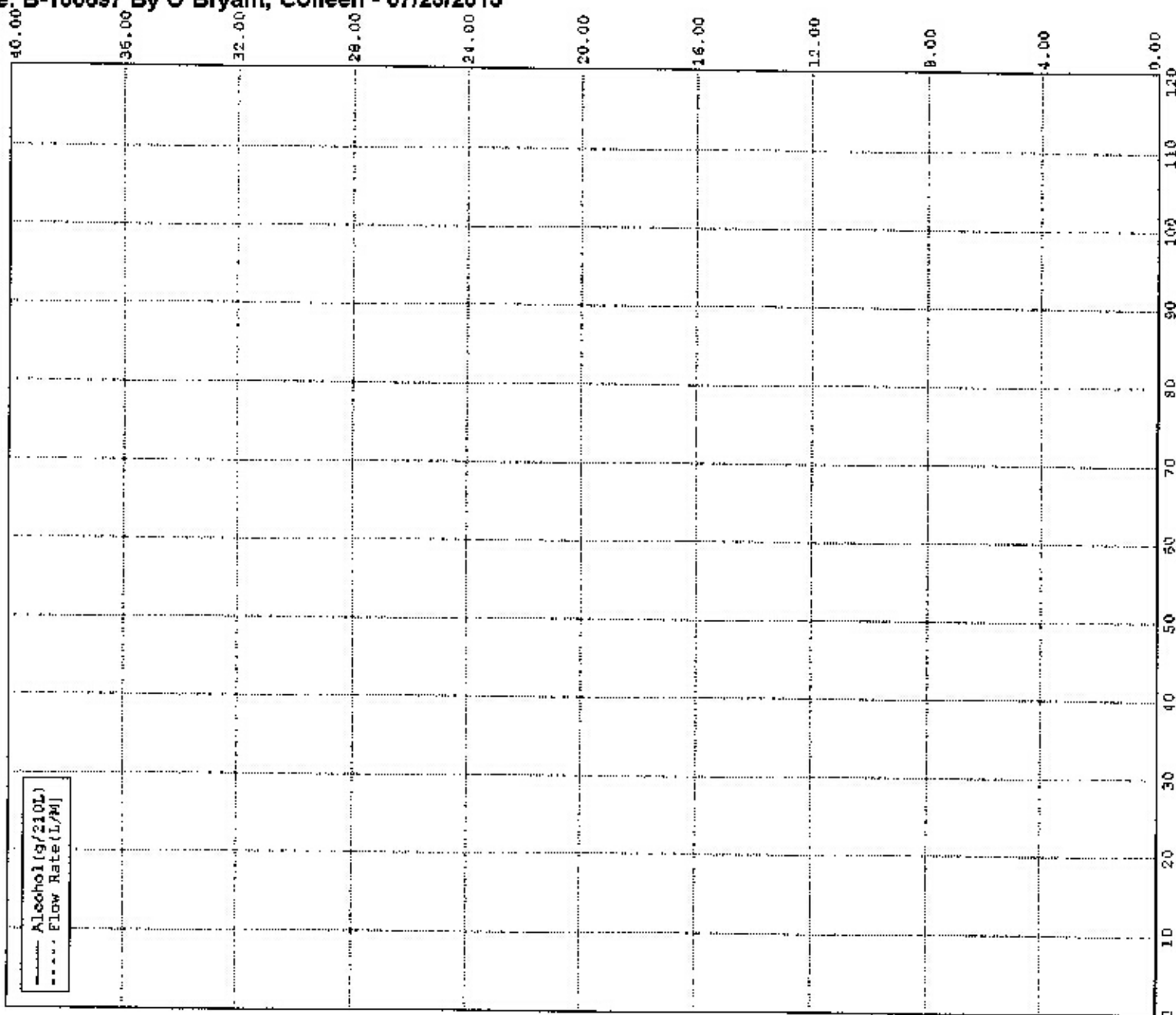
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
EXTERNAL STANDARD	0.301	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.301	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.301	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.301	15:25
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.301	15:26
BLANK TEST	0.000	15:27

Average = 0.3015
 Std Dev = 0.0003





SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100697

Date: 07/17/2013
 Time: 07:45:46

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

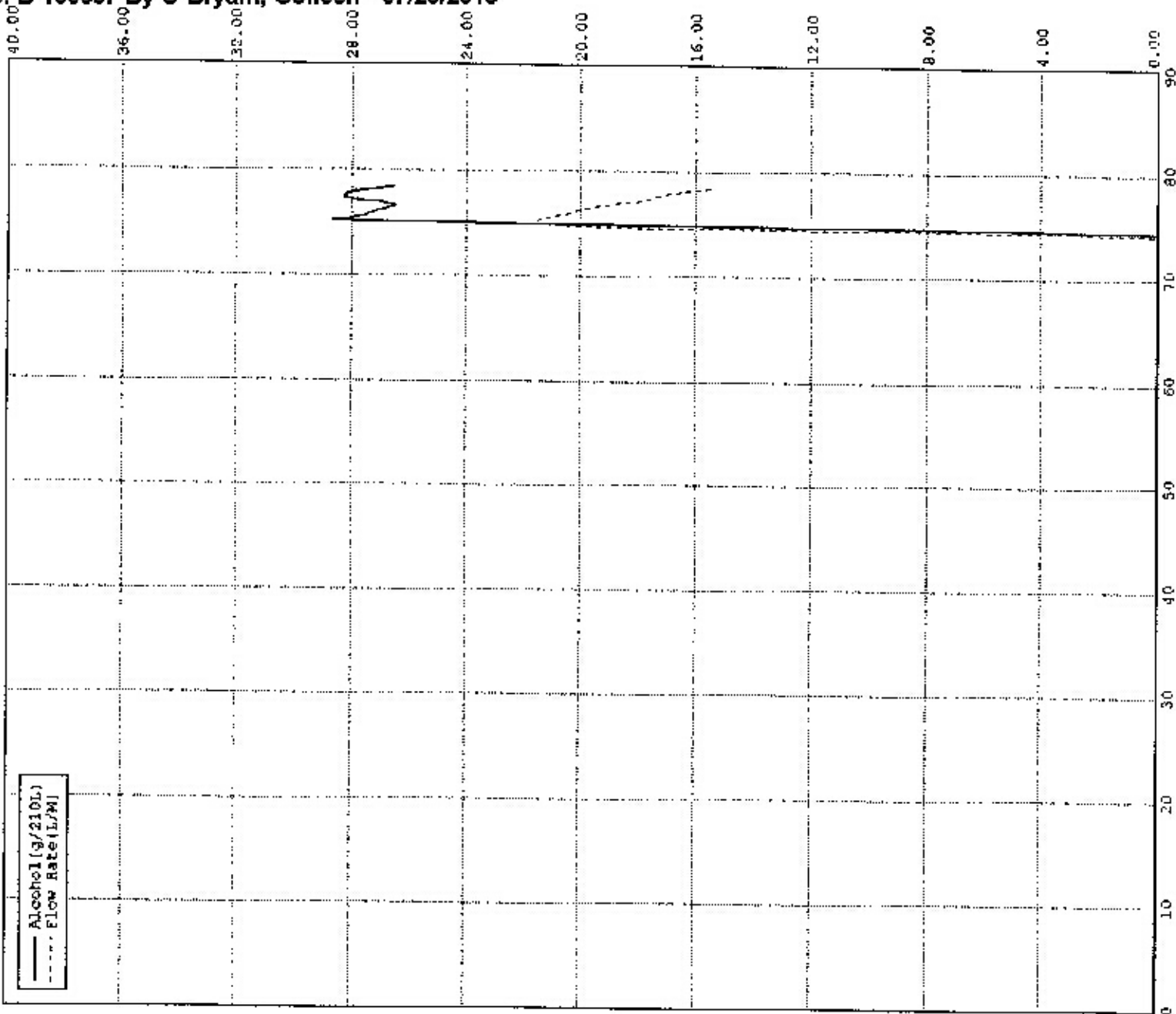
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 08:00
 BLANK TEST 0.000 08:00
INTERNAL STANDARD VERIFIED 08:00
 EXTERNAL STANDARD 0.079 08:01
 BLANK TEST 0.000 08:02
 SUBJECT SAMPLE INCOMPLETE 08:04

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAWASTER dmt: 100697

Date: 07/17/2013
 Time: 08:11:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

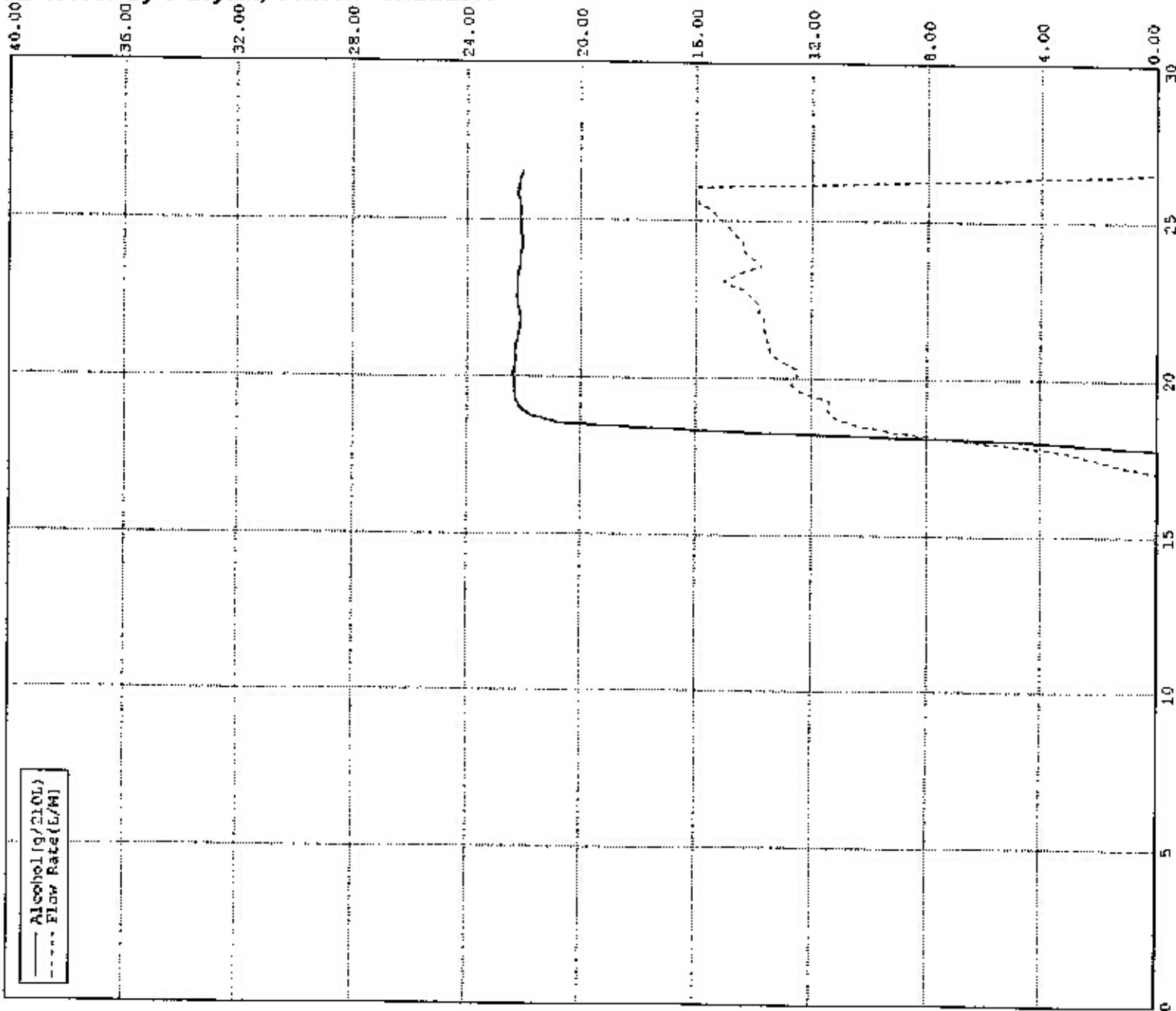
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.090
 TARGET AT 29.60: 0.079
 LOT #: 22612080AL
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:12
INTERNAL STANDARD	VERIFIED	08:12
EXTERNAL STANDARD	0.079	08:12
BLANK TEST	0.000	08:13
SUBJECT SAMPLE	INVALID	08:15

COB



SUBJECT TEST

 Alaska Department of Public Safety
 DATASTER dnt: 100697

 Date: 07/17/2013
 Time: 08:18:49

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

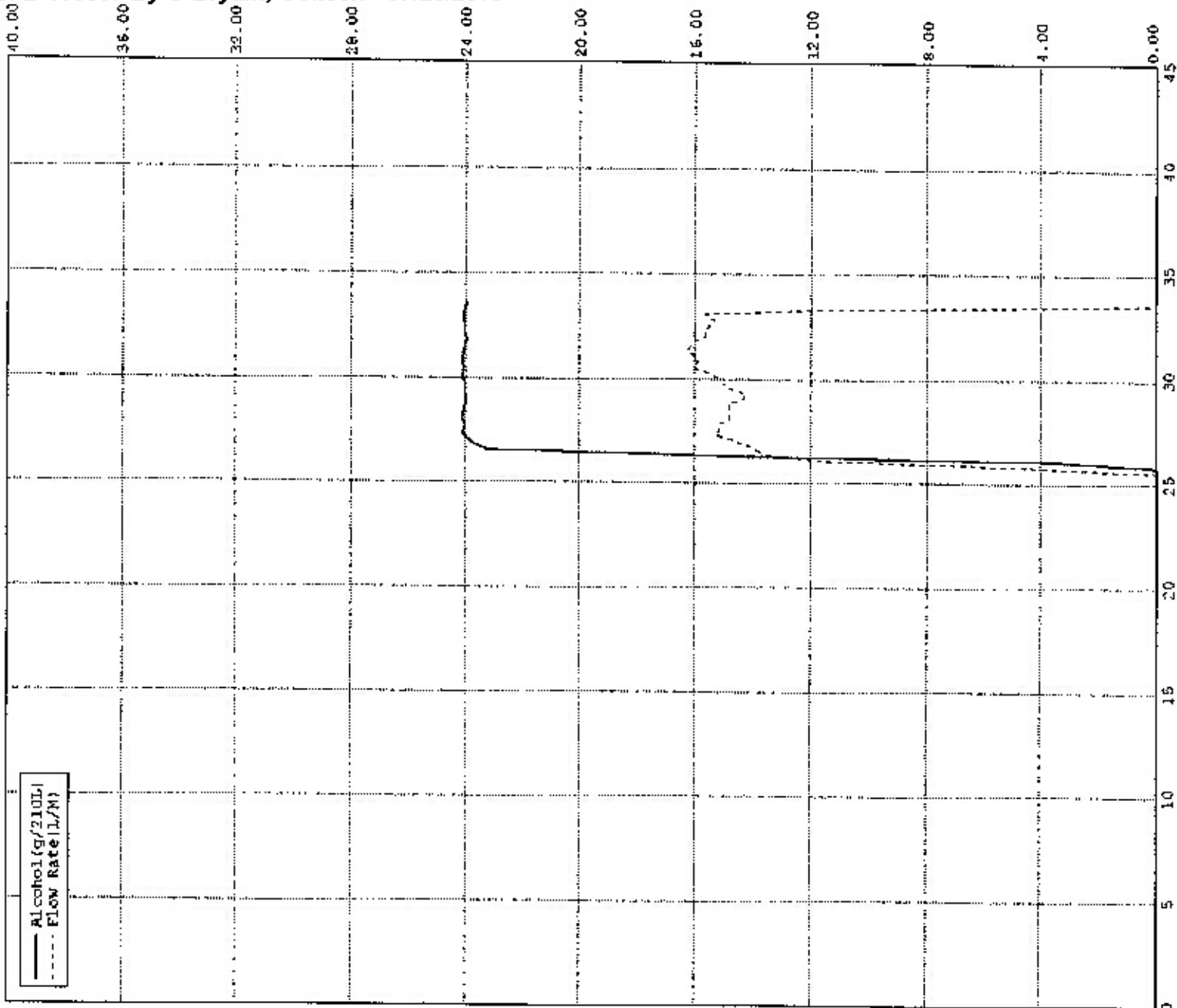
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	08:28
BLANK TEST	0.000	08:28
INTERNAL STANDARD	VERIFIED	08:28
Xq = 0.085 (0.408)		
EXTERNAL STANDARD	0.079	08:28
X[1] = 0.0796 (-0.0002) (0.0010)		
BLANK TEST	0.000	08:29
SUBJECT SAMPLE INTERFERENCE	08:29	
X[1] = 0.1106 (-0.0218) (-0.0015)		

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmc: 100597

Date: 07/18/2013
 Time: 13:33:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

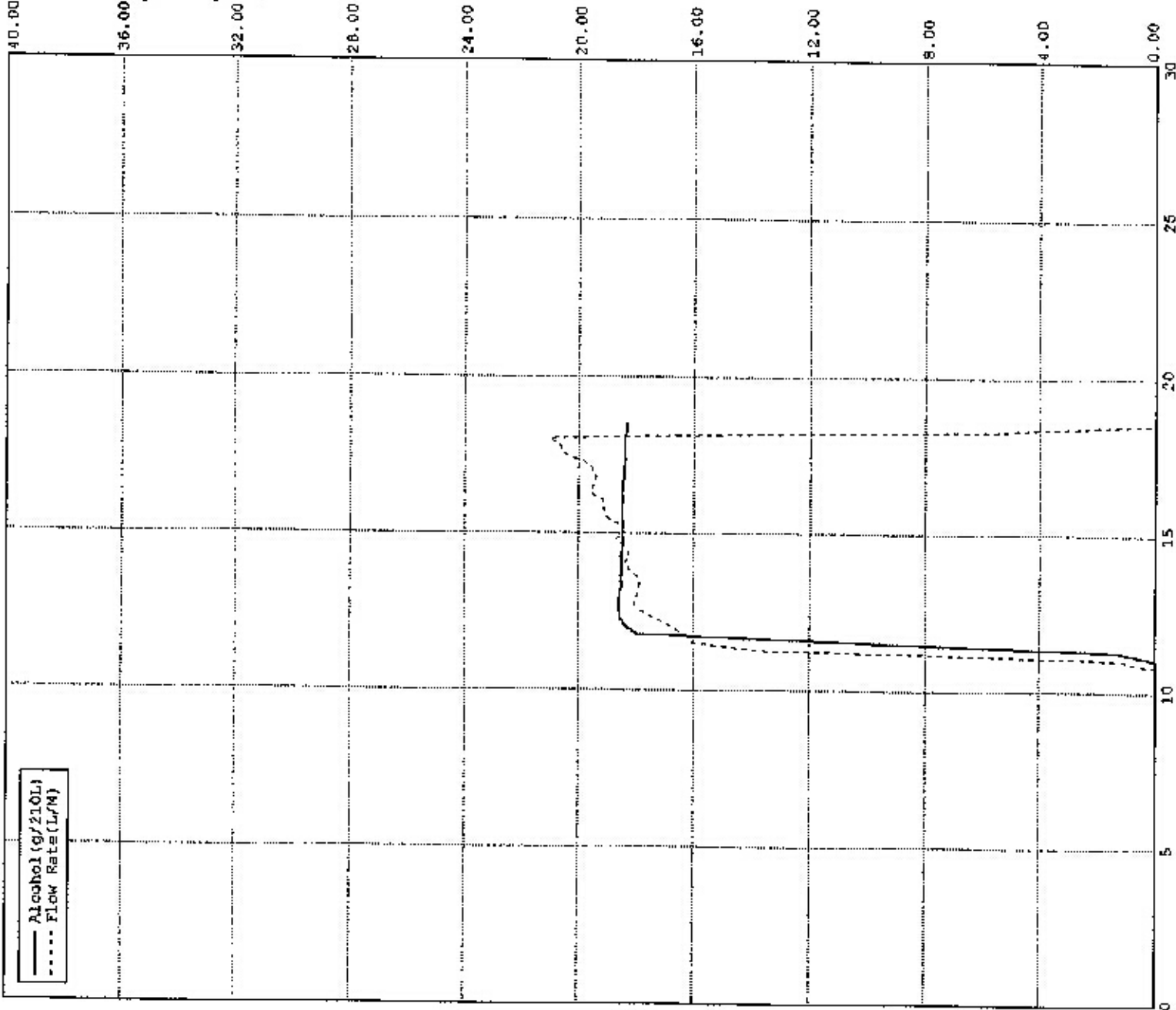
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:34
BLANK TEST	0.000	13:35
INTERNAL STANDARD	VERIFIED	13:35
Xq = 0.086 (1.01%)		
EXTERNAL STANDARD	0.078	13:35
X[1] = 0.0788 (-0.0002) (0.0010)		
BLANK TEST	0.000	13:36
SUBJECT SAMPLE	INTERFERENCE	13:37
X[1] = 0.1201 (-0.0189) (0.0002)		

COB



SUBJECT TEST

 Alaska Department of Public Safety
 DATA MASTER dmt: 100697

 Date: 07/18/2013
 Time: 13:41:06

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG CONT

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

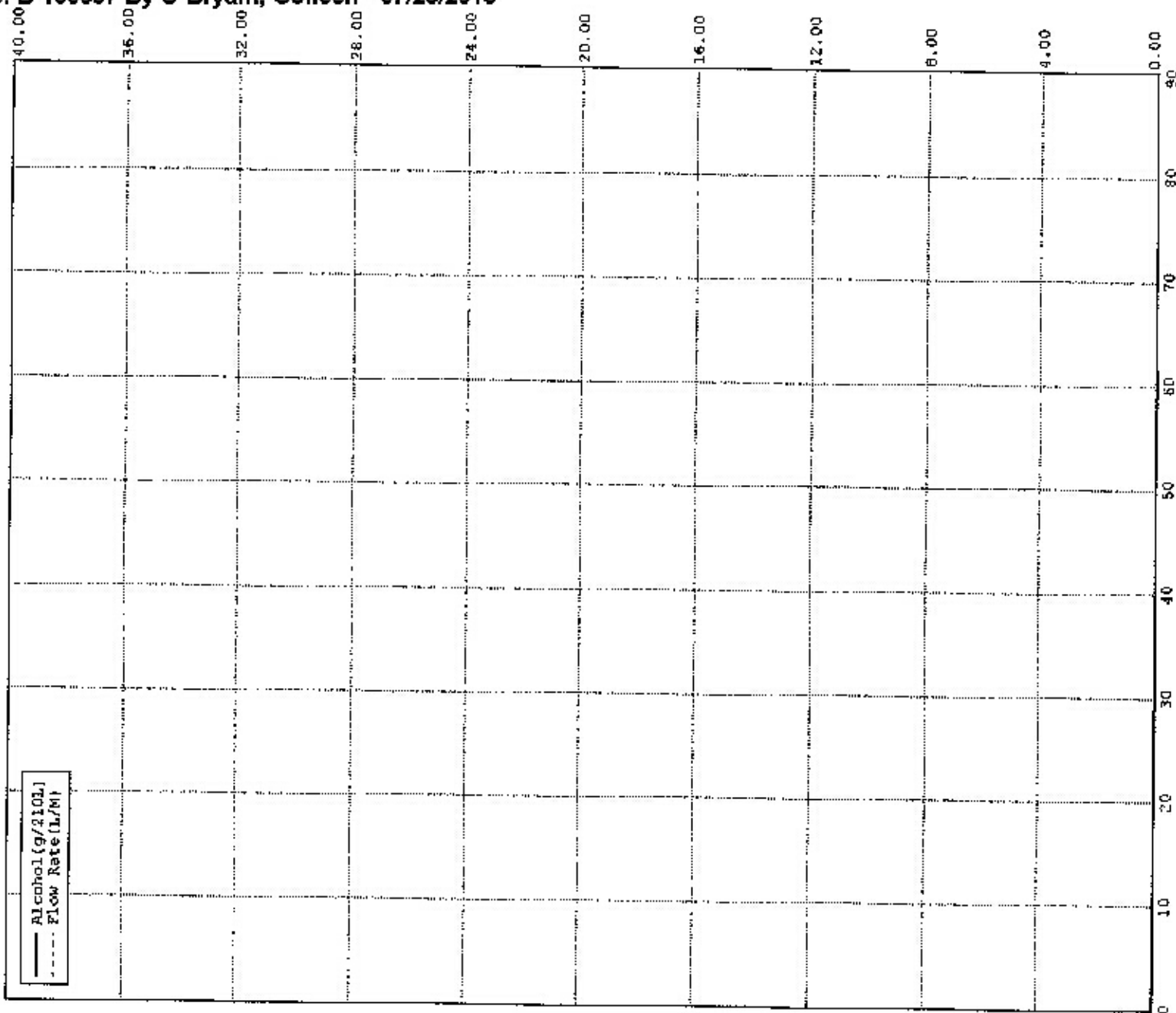
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:42
BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
Xq = 0.086 (0.20%)		
EXTERNAL STANDARD	0.079	13:43
X[1] = 0.0797 (0.0001) (0.0007)		
BLANK TEST	0.000	13:43
SUBJECT SAMPLE (Vol=2.19L)	0.091	13:44
X[1] = 0.0919 (0.0003) (-0.0007)		
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.079	13:45
X[1] = 0.0797 (0.0001) (0.0009)		
BLANK TEST	0.000	13:45

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100697

Date: 07/18/2013
 Time: 13:50:10

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

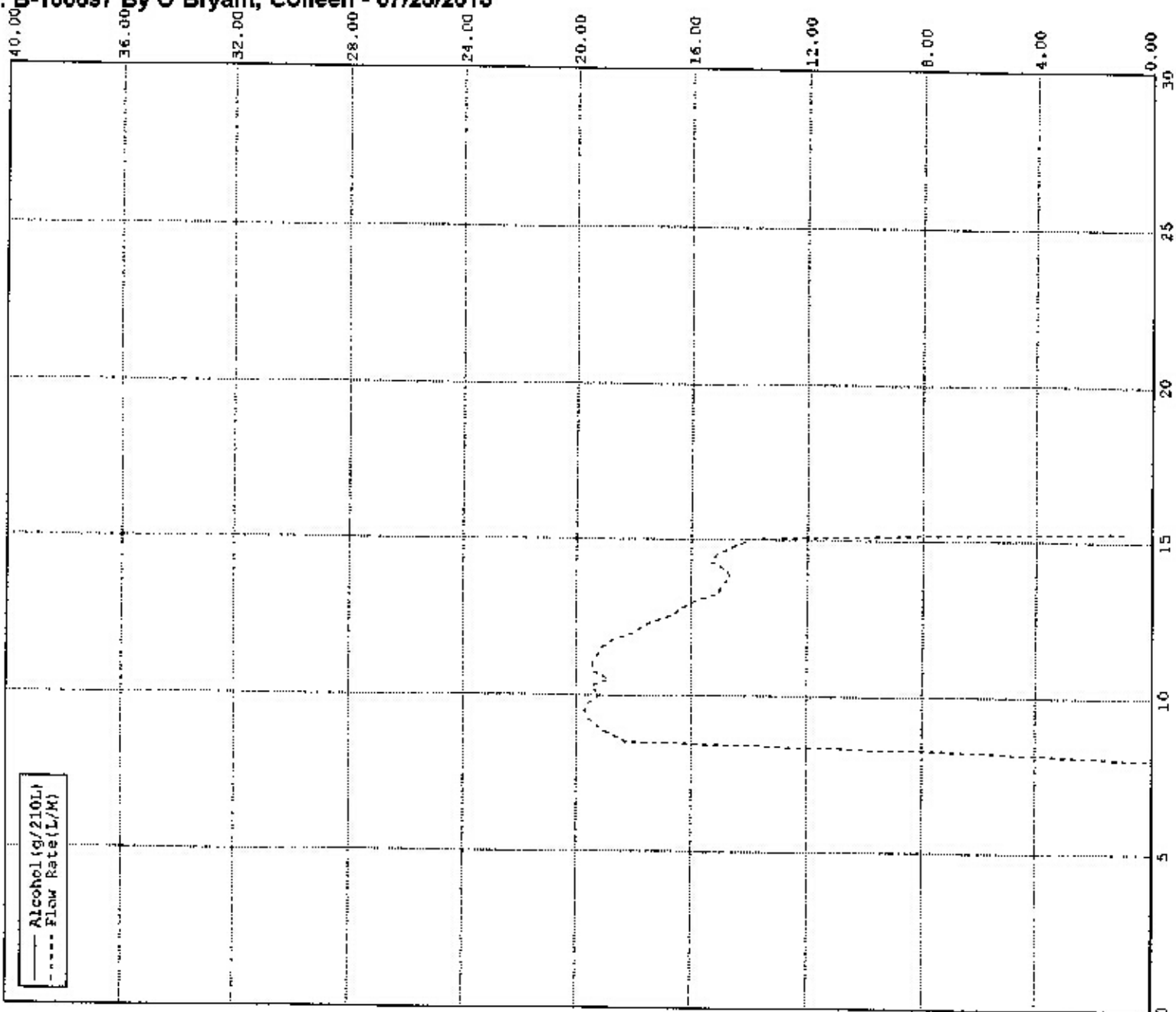
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 13:51
 0.000 13:51
 INTERNAL STANDARD VERIFIED 13:51
 0.079 13:51
 EXTERNAL STANDARD 0.000 13:52
 BLANK TEST

RFI DETECTED



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100697

 Date: 07/18/2013
 Time: 14:49:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/03/2014

DIAGNOSTIC CHECK	PASSED	14:51
BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.079	14:51
BLANK TEST	0.000	14:52
SUBJECT SAMPLE	0.000	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.079	14:54
BLANK TEST	0.000	14:55

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Final page for report

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2/13/2014