

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100691 Analyst Colleen Start Date 12/9/13

Diagnostic Test (attached) O'Bryant

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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 0081302091 Exp 3/1/15

ii. 0.040g/210L Mnf ILMO Lot 0081304092 Exp 3/1/15

iii. 0.080g/210L Mnf ILMO Lot 2261208091 Exp 9/1/14

iv. 0.100g/210L Mnf ILMO Lot 0081310093 Exp 3/1/15

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

i. Simulator S/N SD1088 Date Calibrated 1/23/13

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

i. Simulator S/N SD1198 Date Calibrated 1/23/13

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

~~i. Acetone~~ ^{Neg. ctrl} Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

i. Simulator S/N SD1199 Date Calibrated 1/23/13

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

i. Simulator S/N SD1177 Date Calibrated 1/23/13

~~iii. Acetone~~ ^{Negative Control} - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

i. Simulator S/N SD24161 Date Calibrated 1/24/13

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

End Date 12/19/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 12/09/2013
Time: 15:00:46

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.452 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: 100691

Date: 12/09/2013
Time: 3:30 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 48.0°C

Current Barometer 30.0 in
Volume (Ltr) 1.43

Settings

Lamp: 1.94 V
Bias: 80 V
Cooler: 1.84 V
Chopper: 551 Hz

Voltages (V)

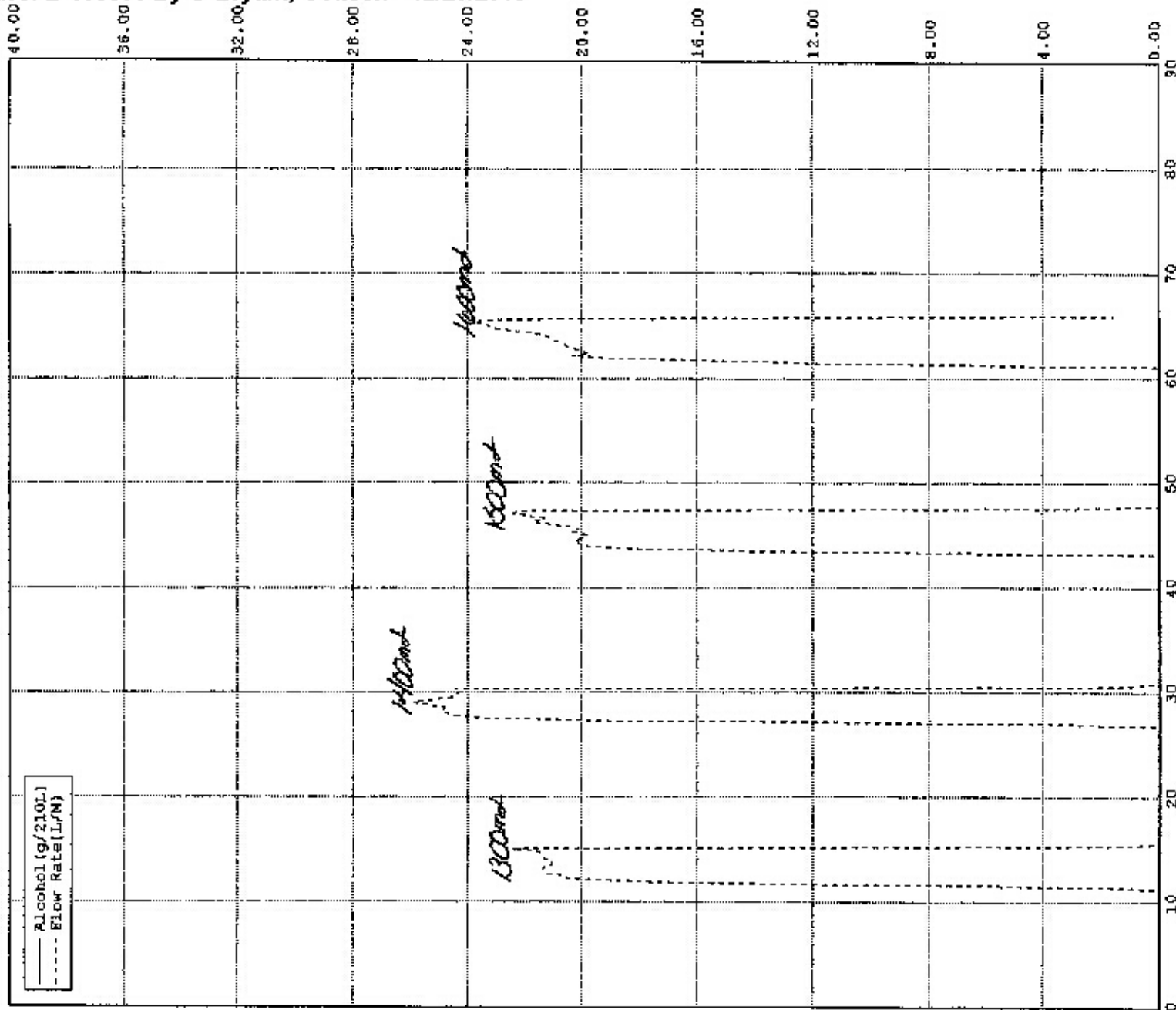
Flow: 1.06 V
Detector: -0.031 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER chnt: 100691

Date: 11/02/2011
Time: 14:58:17

Ca = 0.1000
CAL = 0.985661 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xg = 0.0921 0.0500 <= Xg < 0.2000
a21 = 1.200991 1.050 <= a21 < 1.300
a31 = 0.438779 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER chit: 100691

Date: 12/10/2013
 Time: 08:20:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

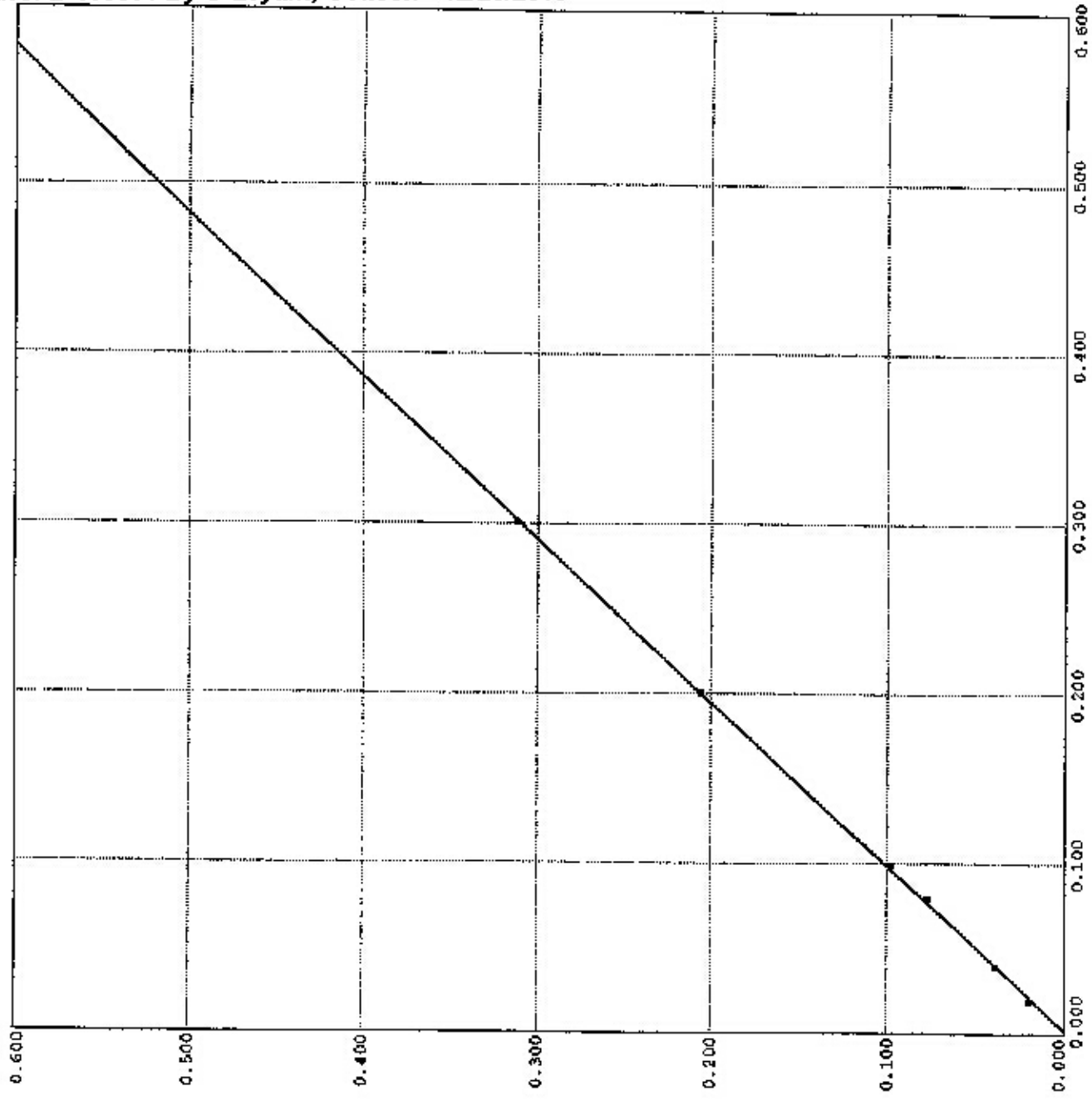
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 22612080AL
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	08:22
BLANK TEST	0.000	08:22
INTERNAL STANDARD	VERIFIED	08:22
EXTERNAL STANDARD	0.079	08:22
BLANK TEST	0.000	08:23
SUBJECT SAMPLE	0.000	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.079	08:28
BLANK TEST	0.000	08:29



LINEARITY CHECK

Alaska Department of Public Safety
 DATAPRINTER dnt: 100691

Date: 12/10/2013
 Time: 10:01:22

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0001
0.039	0.0401	0.0002
0.079	0.0788	0.0002
0.099	0.0989	0.0002
0.200	0.2066	0.0005
0.300	0.3124	0.0005

SLOPE = 1.042577
 R² = 0.999687

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER Unit: 100691

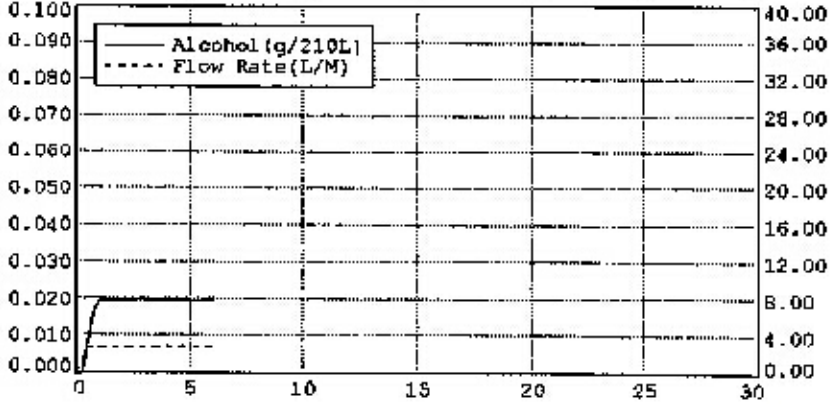
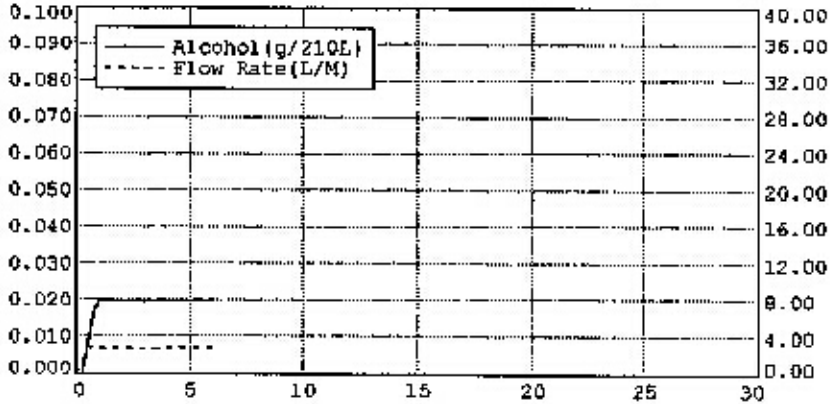
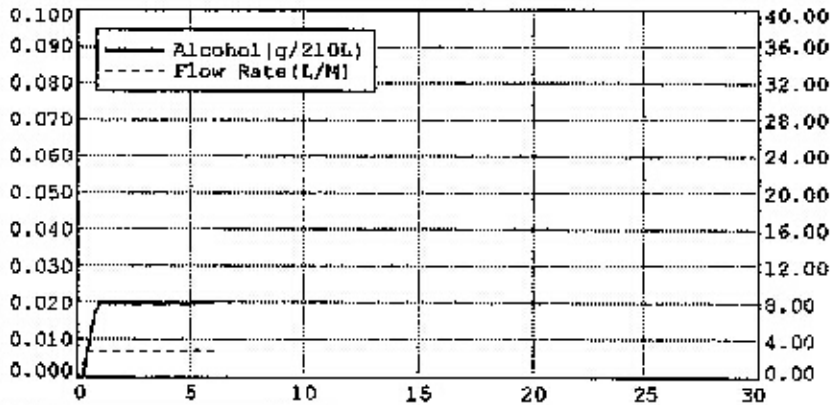
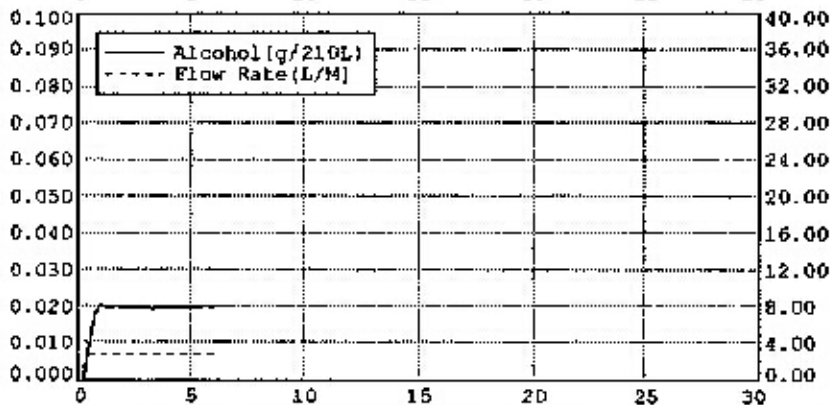
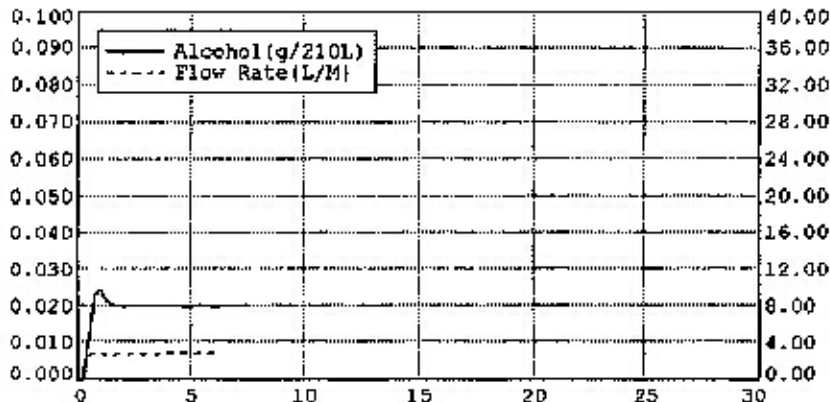
Date: 12/10/2013
 Time: 10:15:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.92: 0.019
 LOT #: ~~00813002091~~ ~~00813002091~~ ~~00813002091~~
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.020	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.020	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.020	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.020	10:20
BLANK TEST	0.000	10:21

Average = 0.0206
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

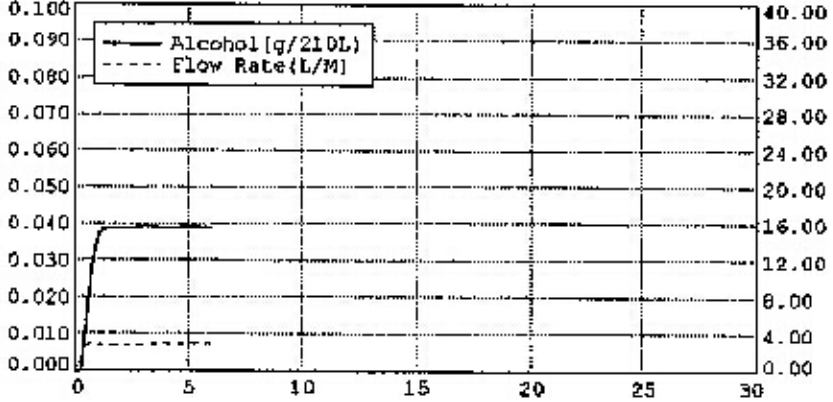
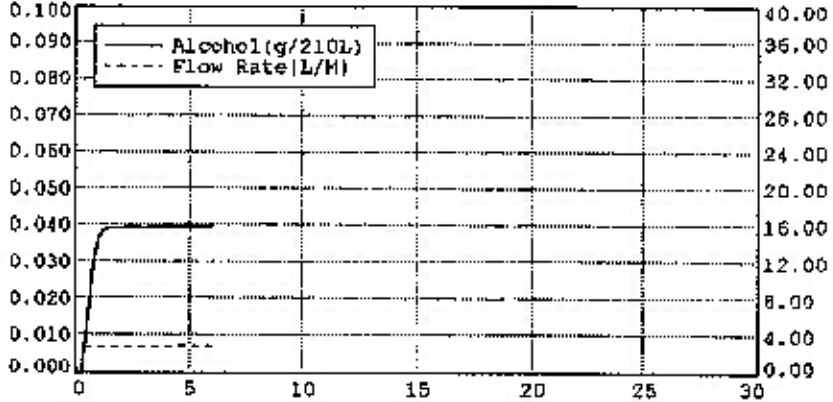
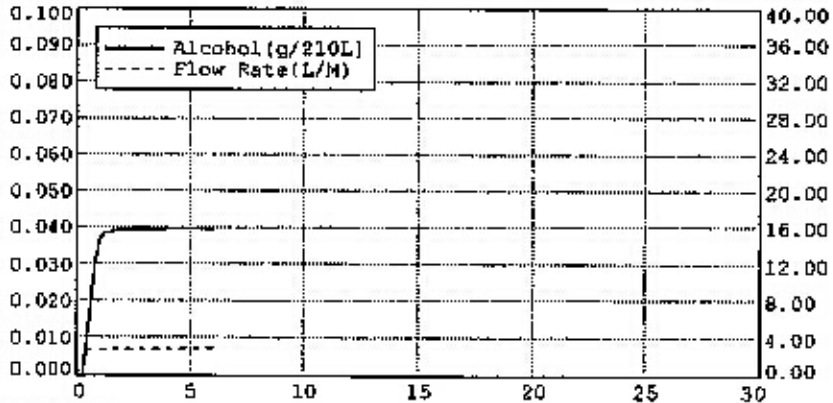
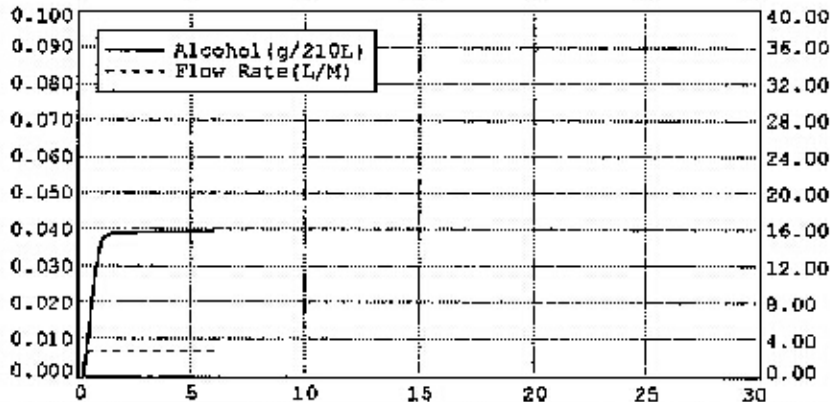
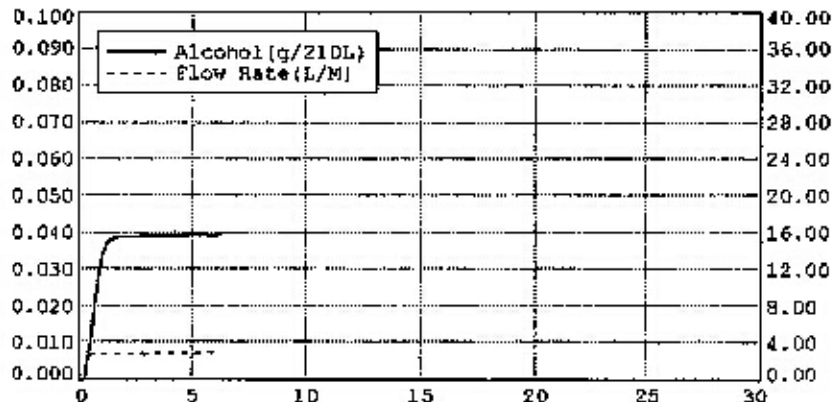
Date: 12/10/2013
 Time: 10:25:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.82: 0.039
 LOT #: ~~0081310402~~ 007130401A
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
EXTERNAL STANDARD	0.040	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.040	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.040	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.040	10:31
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.039	10:32
BLANK TEST	0.000	10:33

Average = 0.0401
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100691

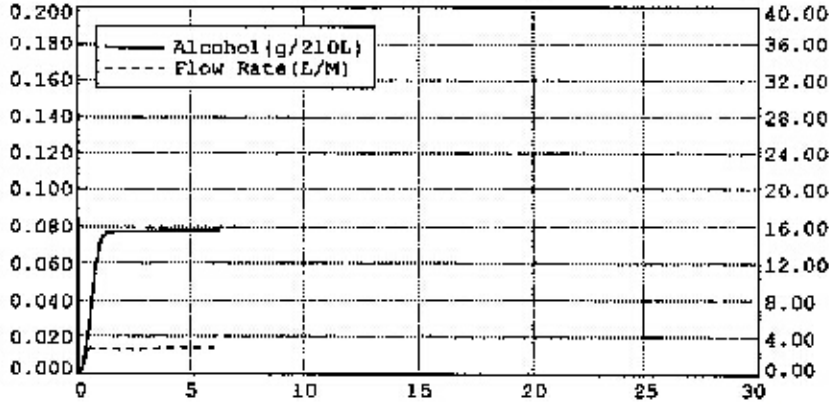
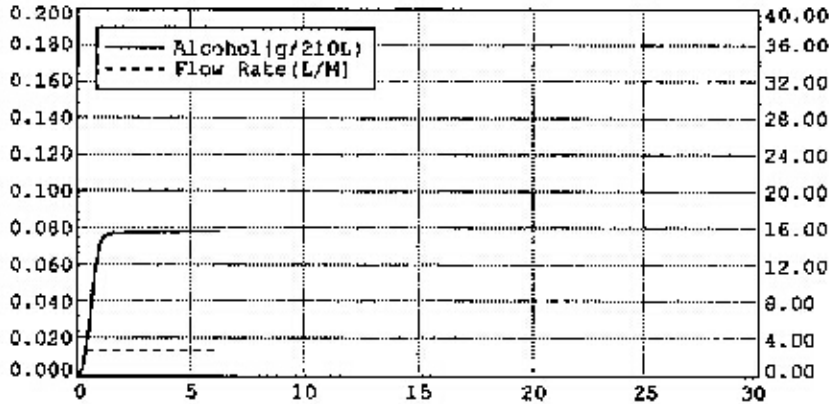
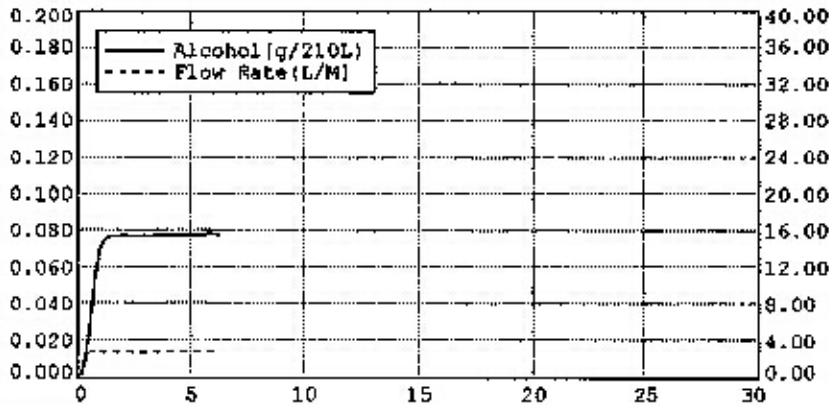
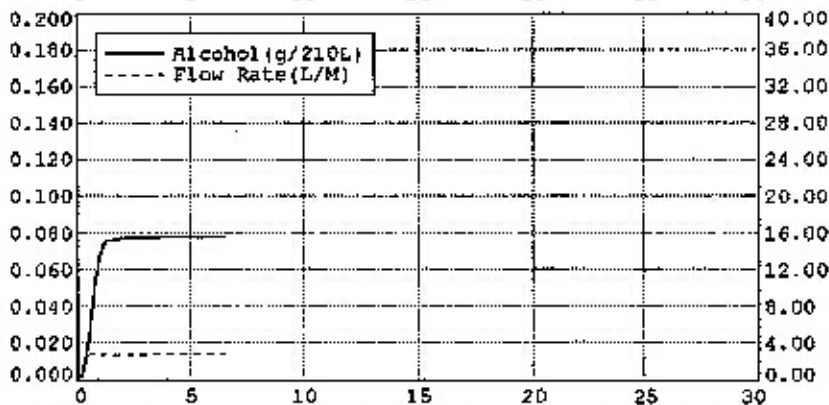
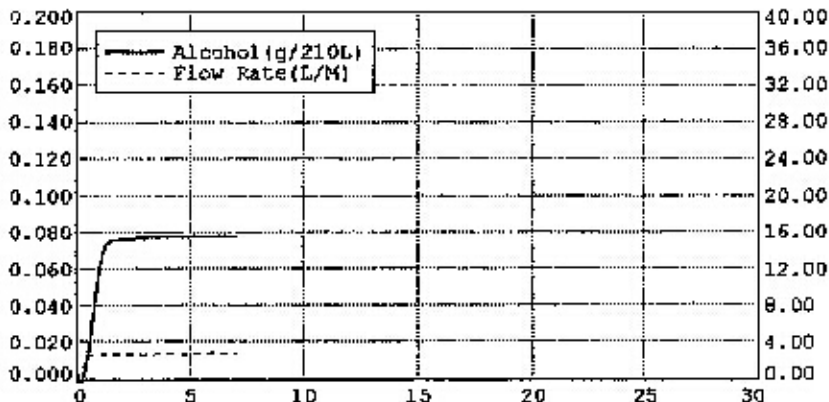
Date: 12/10/2013
 Time: 10:34:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.82: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	10:35
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.078	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.078	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.078	10:38
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.079	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.079	10:40
BLANK TEST	0.000	10:41

Average = 0.0788
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

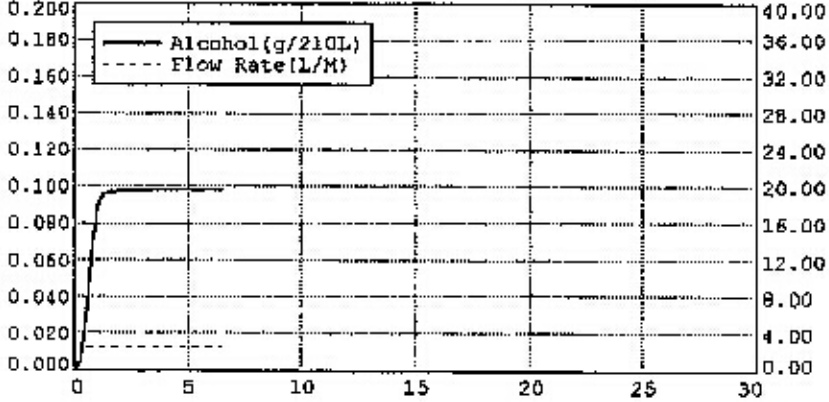
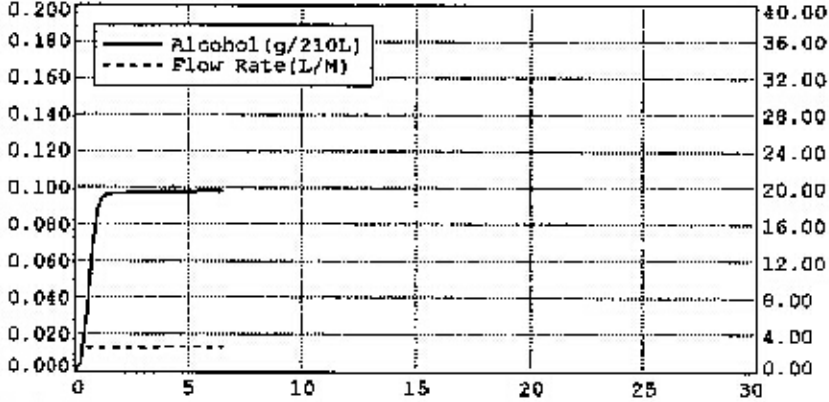
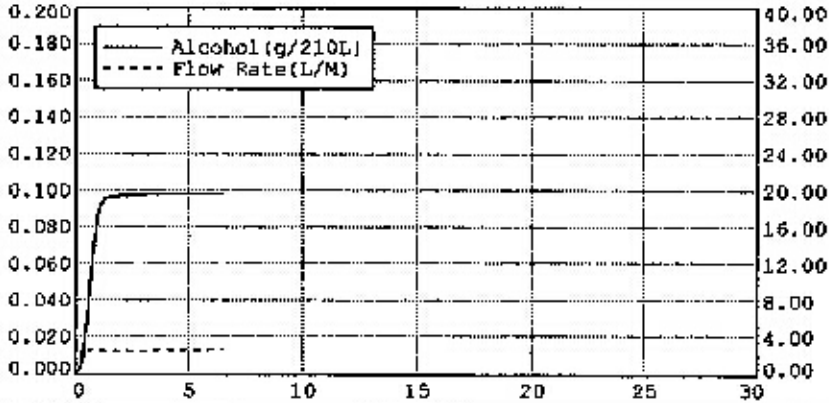
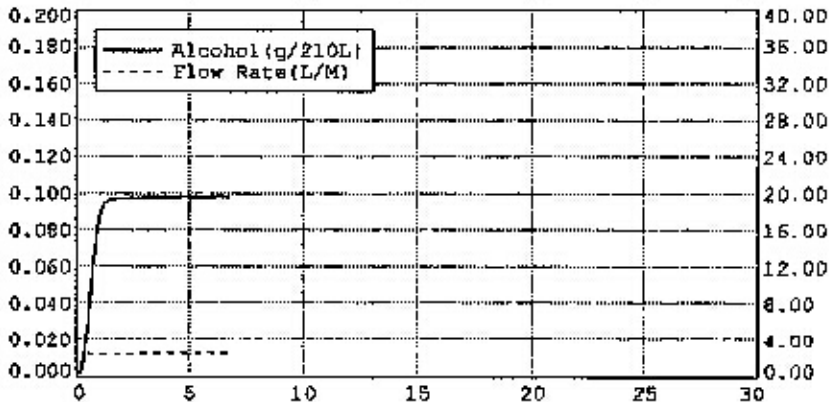
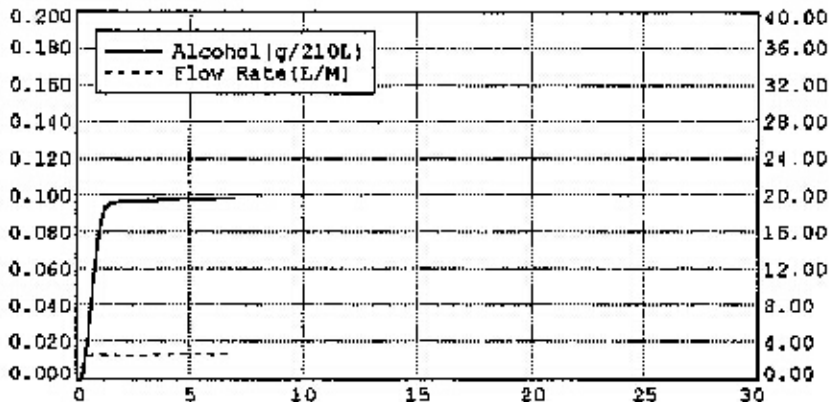
Date: 12/10/2013
 Time: 10:41:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.81: 0.099
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.098	10:43
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.098	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.099	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.099	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.098	10:47
BLANK TEST	0.000	10:48

Average = 0.0989
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100691

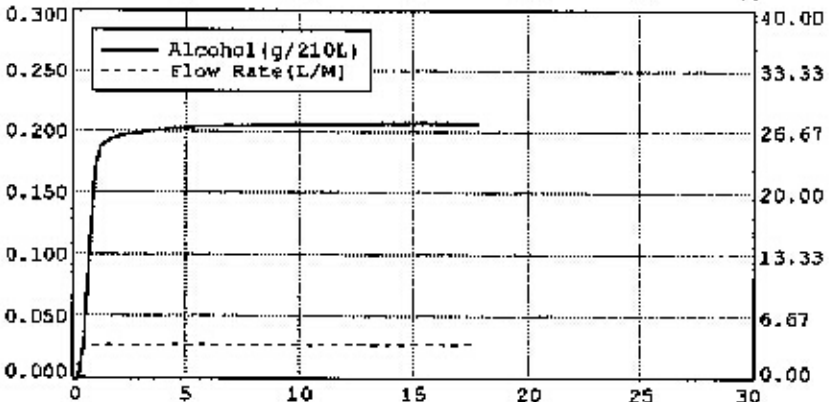
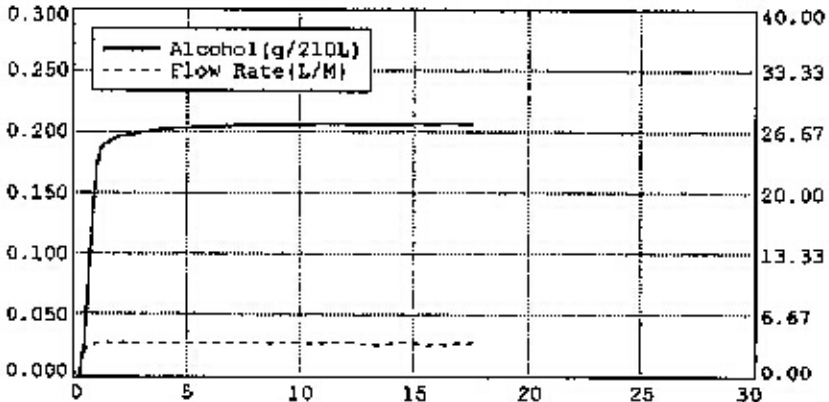
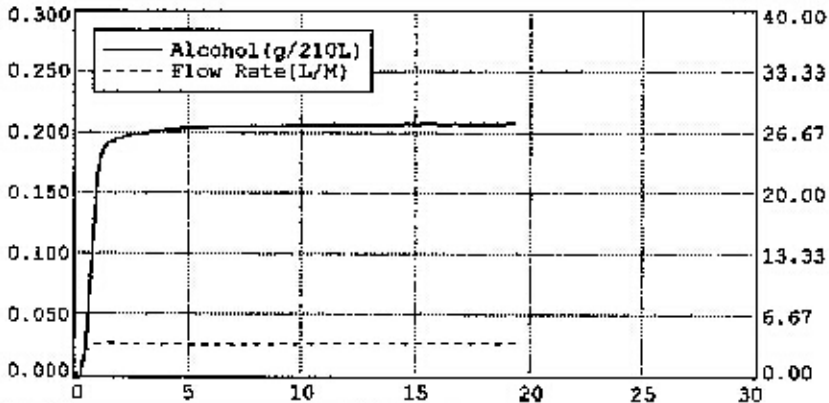
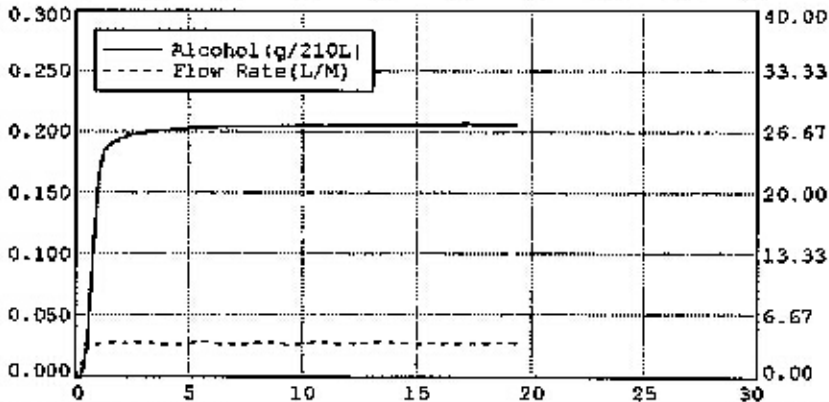
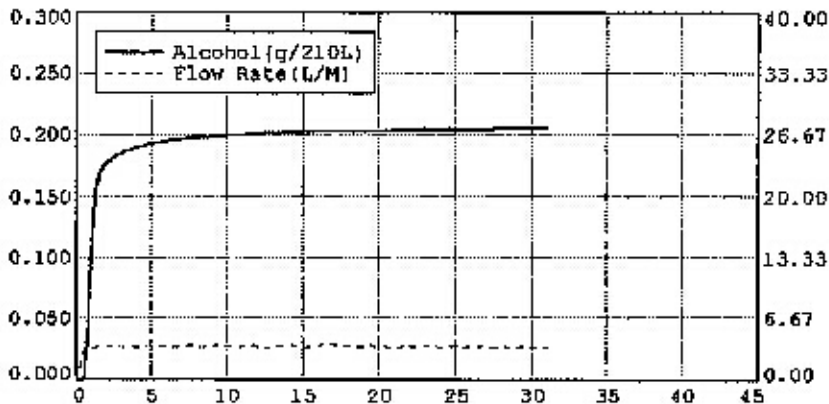
Date: 12/10/2013
 Time: 10:49:00

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.205	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.206	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.206	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.206	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.206	10:56
BLANK TEST	0.000	10:57

Average = 0.2066
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER chmt: 100691

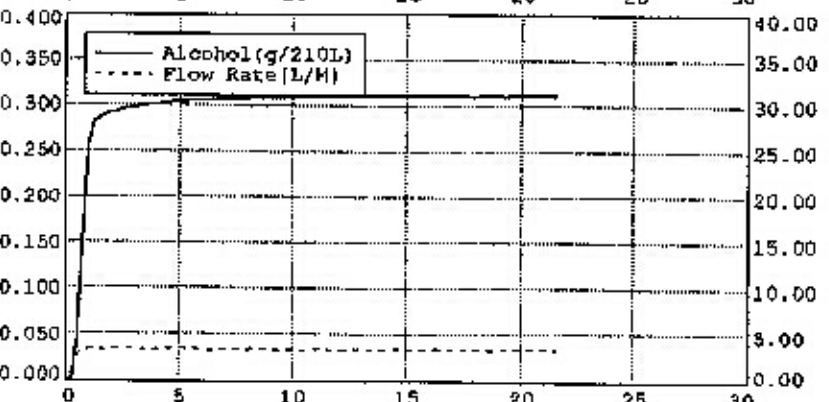
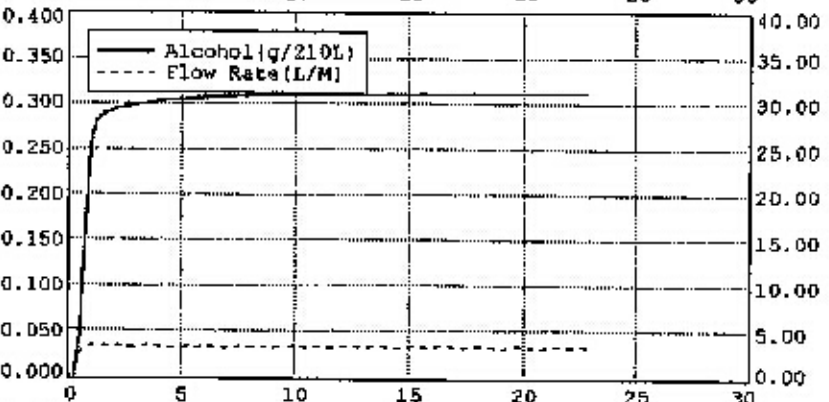
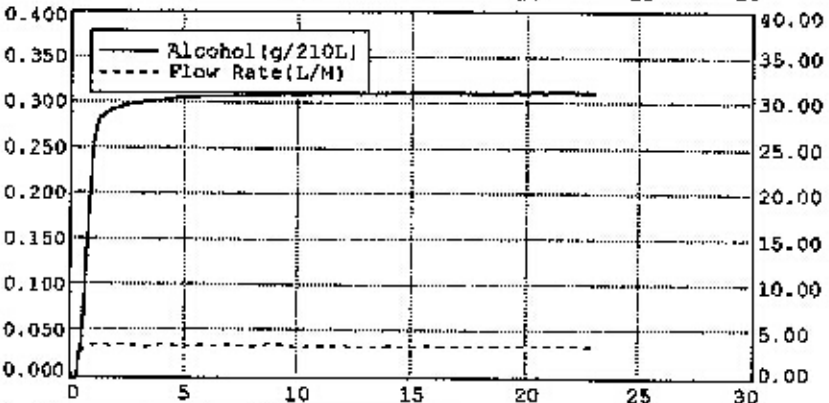
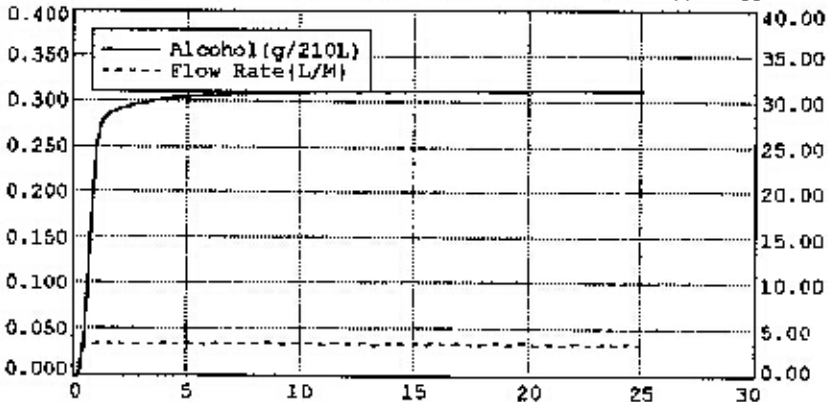
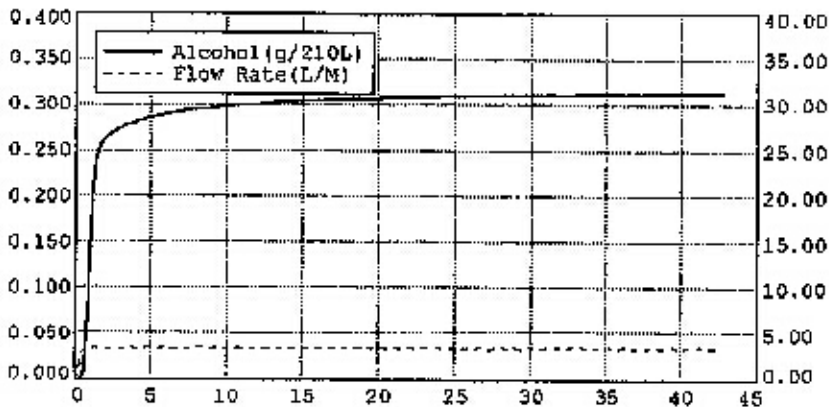
Date: 12/10/2013
 Time: 14:02:48

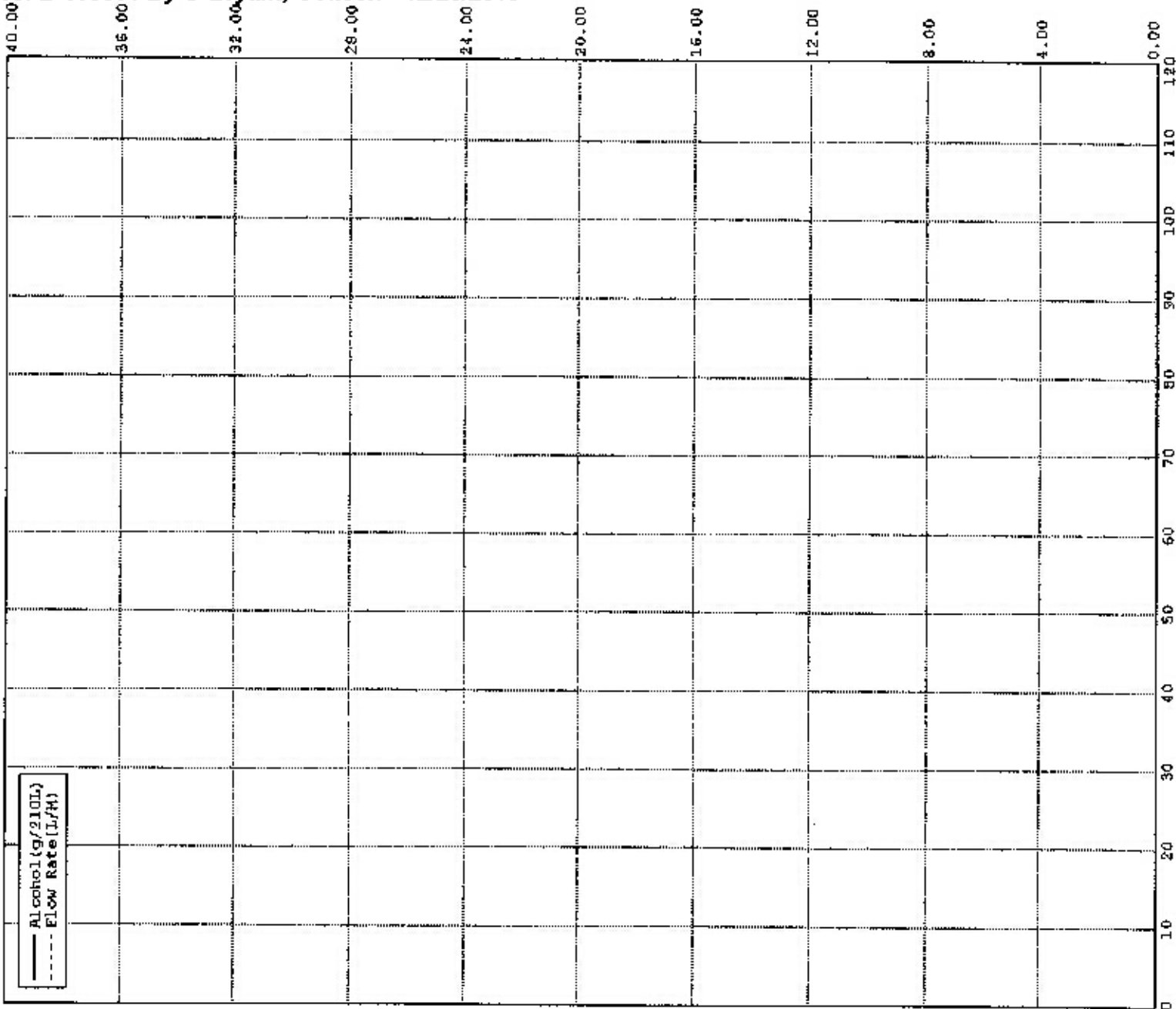
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.313	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.312	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.312	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.312	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.311	14:10
BLANK TEST	0.000	14:11

Average = 0.3124
 Std Dev = 0.0005





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER chrt: 100591

 Date: 12/11/2013
 Time: 08:02:26

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

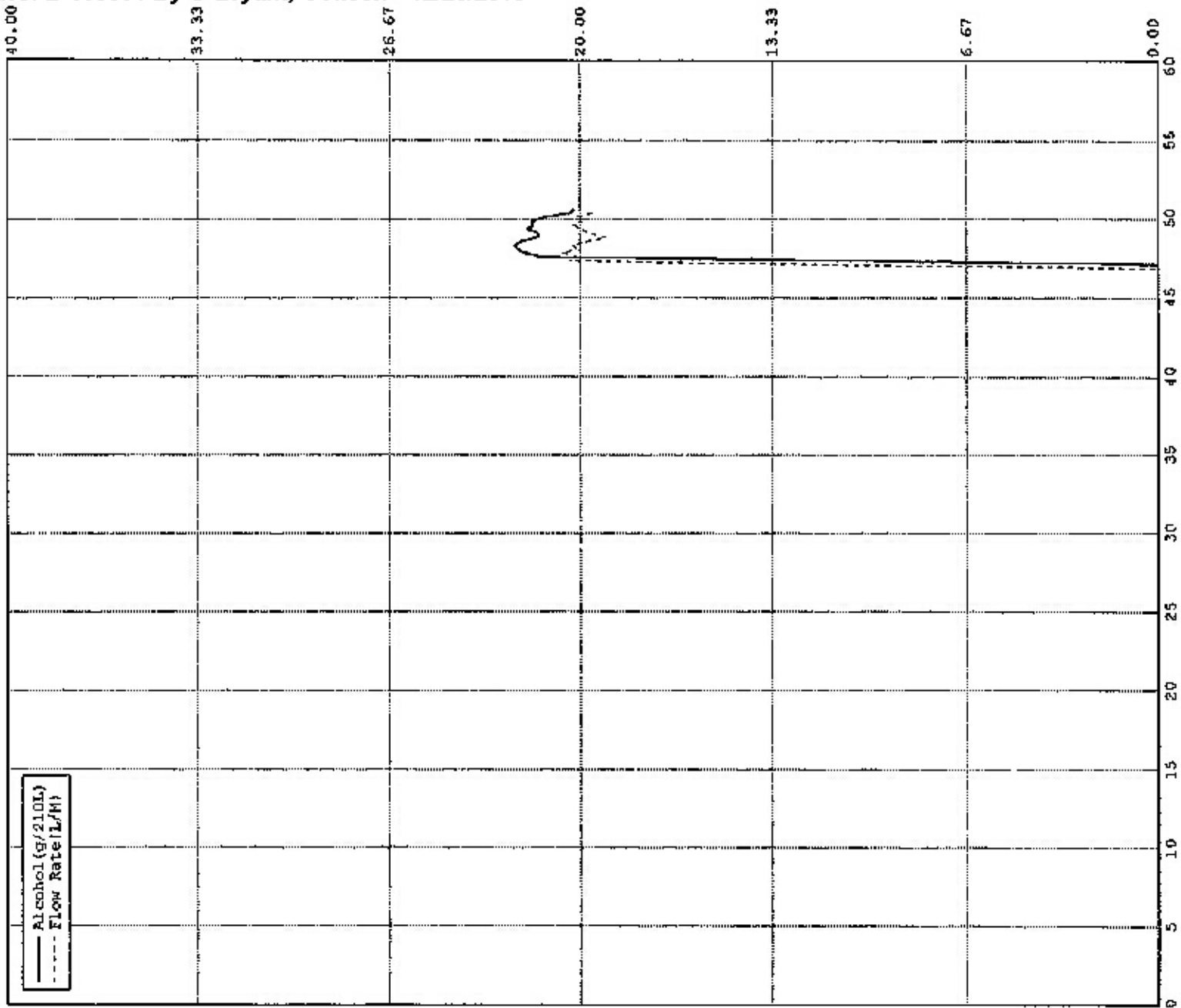
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.34: 0.078
 LOT #: 2261208DA1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 08:03
BLANK TEST 0.000 08:03
INTERNAL STANDARD VERIFIED 08:03
EXTERNAL STANDARD 0.078 08:03
BLANK TEST 0.000 08:04
SUBJECT SAMPLE INCOMPLETE 08:07

Oob



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER chm: 100691

Date: 12/19/2013
 Time: 12:58:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

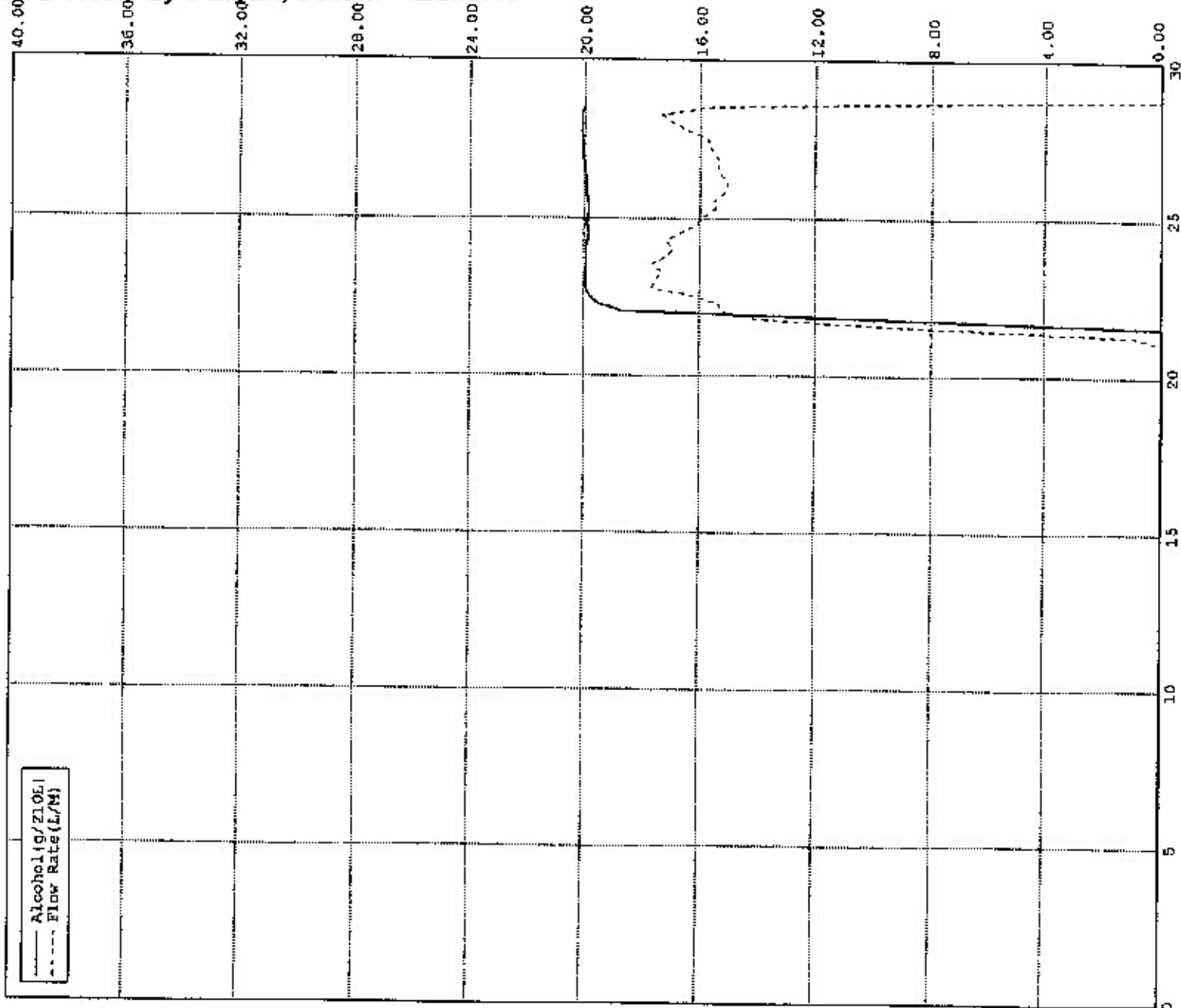
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.51: 0.070
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 13:00
 INTERNAL STANDARD VERIFIED 13:00
 EXTERNAL STANDARD 0.078 13:00
 BLANK TEST 0.000 13:01
 SUBJECT SAMPLE INVALID 13:03

Alcohol(g/210L)
Flow Rate(L/M)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER Unit: 100691

Date: 12/19/2013
 Time: 13:21:10

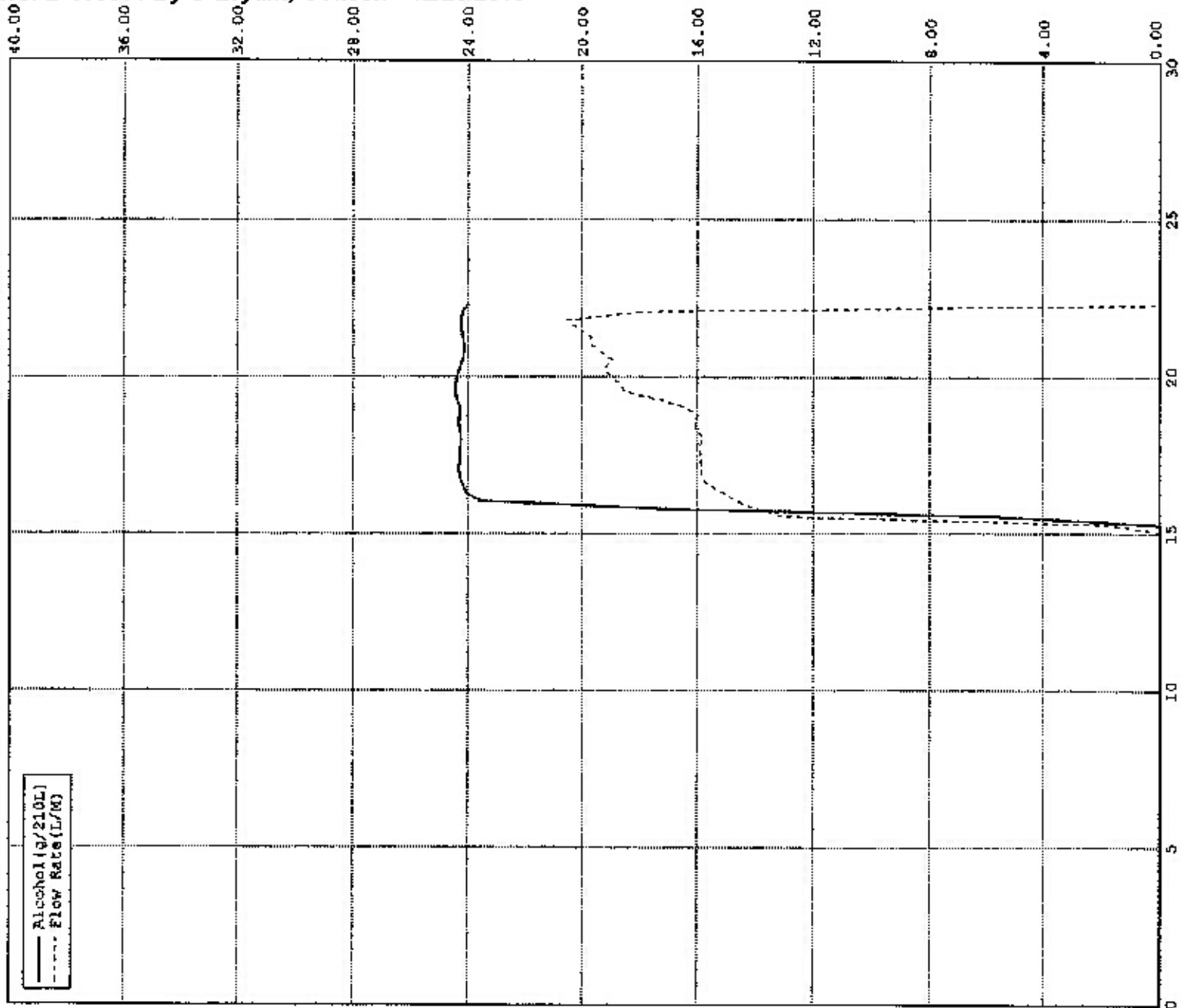
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG

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 29.51: 0.078
 LOT #: 22512080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:22
BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
Xq = 0.091 (1.14%)		
EXTERNAL STANDARD	0.077	13:22
X[1] = 0.0771 (-0.0002)	(0.0025)	
BLANK TEST	0.000	13:23
SUBJECT SAMPLE (Vol=1.92L)	0.098	13:24
X[1] = 0.0980 (-0.0005)	(-0.0004)	
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.077	13:26
X[1] = 0.0775 (-0.0006)	(0.0011)	
BLANK TEST	0.000	13:27



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100691

Date: 12/19/2013
 Time: 13:29:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

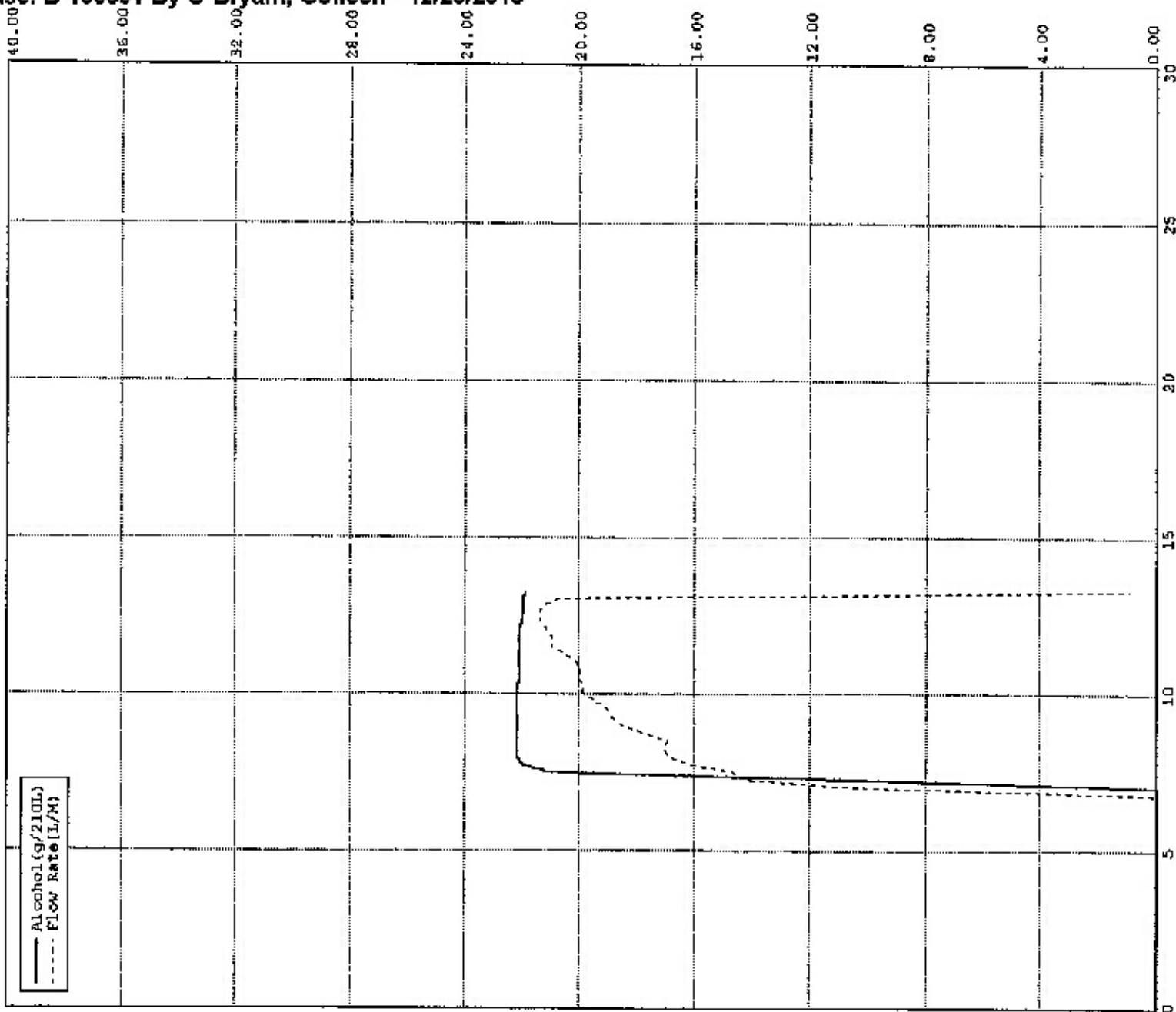
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.060
 TARGET AT 29.51: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:30
BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
Xq = 0.092 (0.38%)		
EXTERNAL STANDARD	0.078	13:30
X[1] = 0.0781 (0.0001)	(0.0016)	
BLANK TEST	0.000	13:31
SUBJECT SAMPLE	INTERFERENCE	13:32
X[1] = 0.1186 (-0.0276)	(0.0009)	



SUBJECT TEST

Alaska Department of Public Safety
 DRAMMASTER dmt: 100591

Date: 12/19/2013
 Time: 13:36:34

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

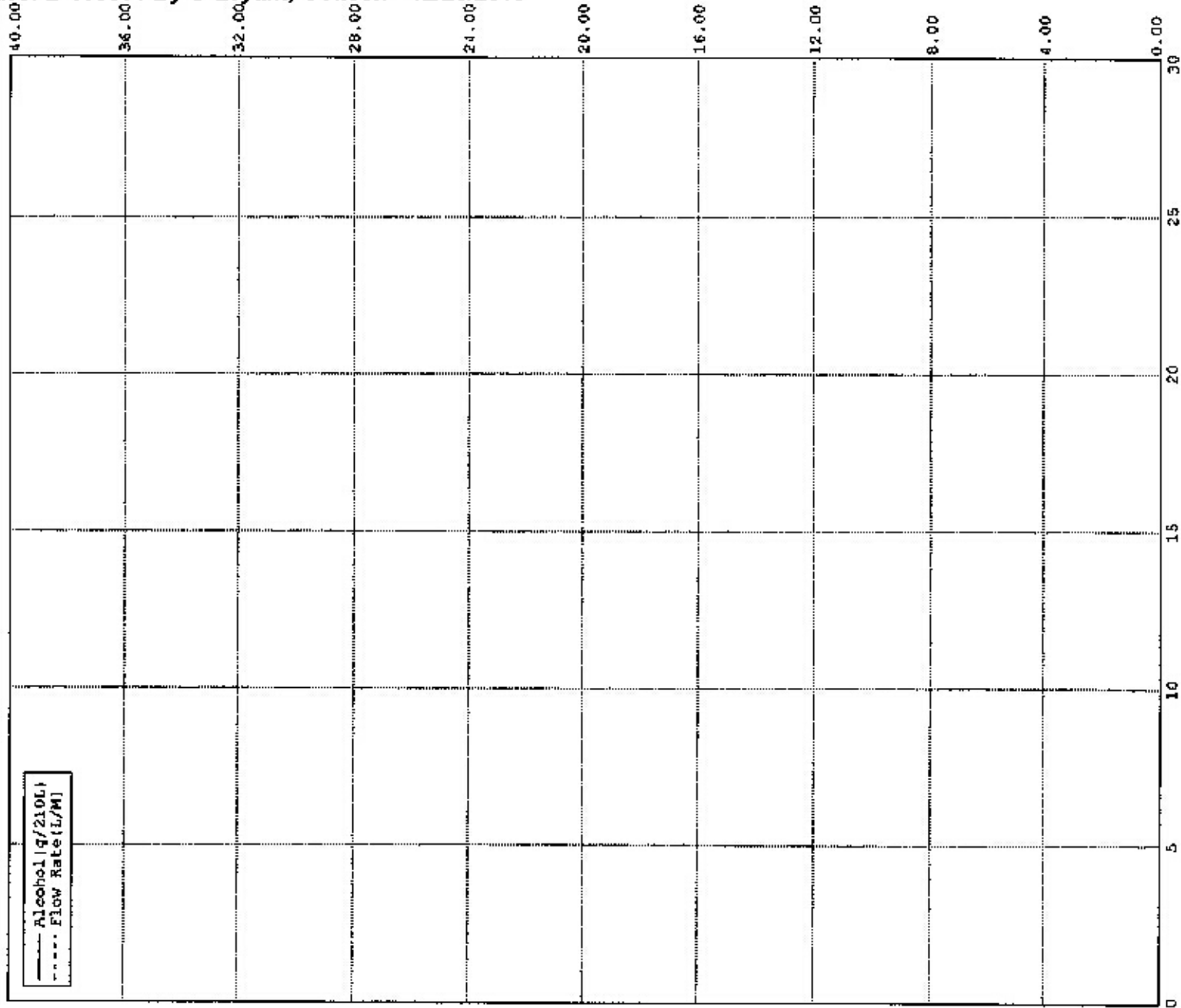
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 2261208DA1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:37
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
X _g = 0.092 (0.09%)		
EXTERNAL STANDARD	0.078	13:38
X[1] = 0.0785 (-0.0004) (0.0020)		
BLANK TEST	0.000	13:39
SUBJECT SAMPLE	INTERFERENCE	13:39
X[1] = 0.1080 (-0.0182) (0.0001)		



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER chrt: 100691

 Date: 12/19/2013
 Time: 13:42:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

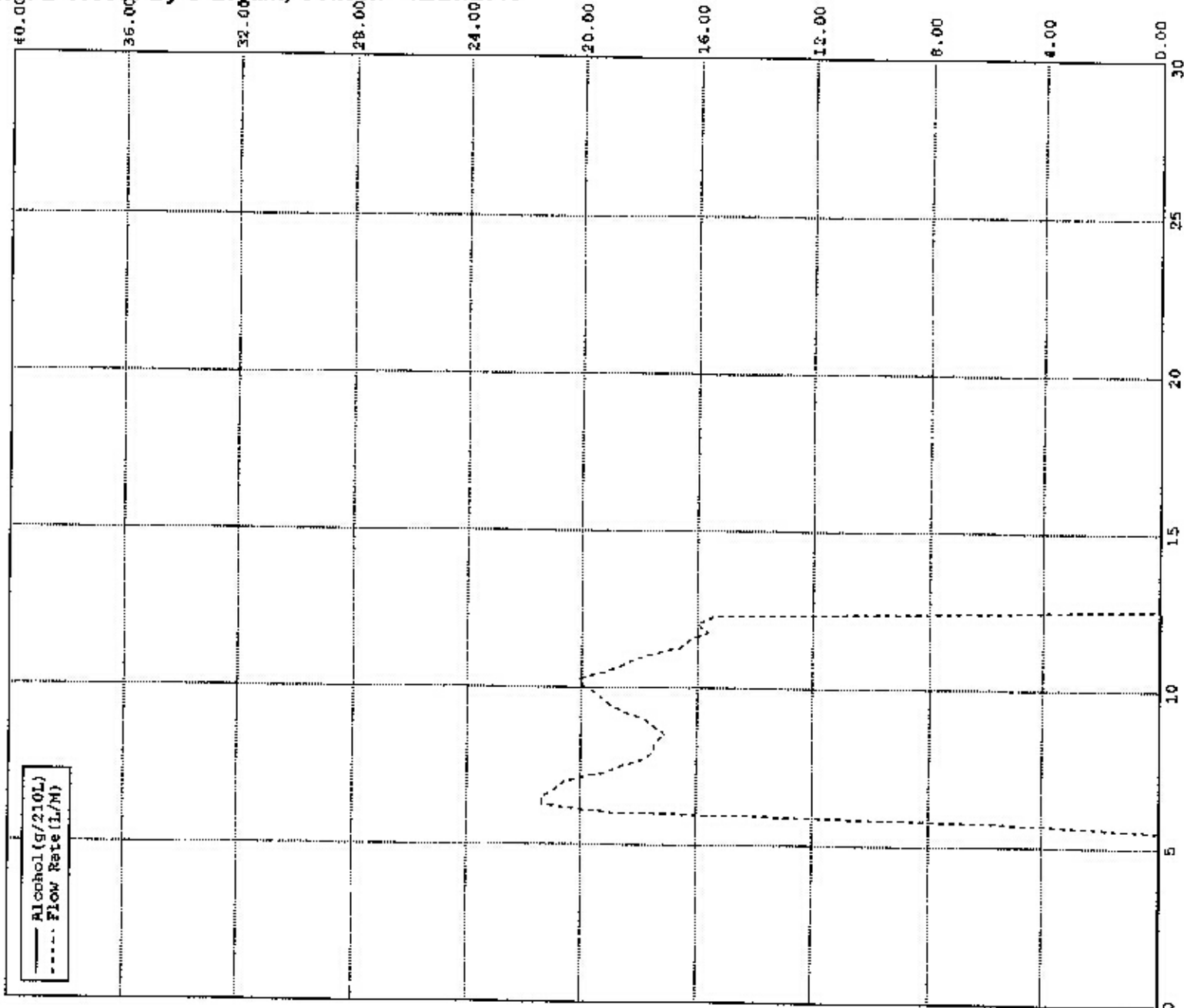
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LCT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 13:50
 BLANK TEST 0.000 13:51
 INTERNAL STANDARD VERIFIED 13:51
 EXTERNAL STANDARD 0.078 13:51
 BLANK TEST 0.000 13:52

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100691

Date: 12/19/2013
 Time: 14:05:32

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
 AAAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:06
BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.077	14:07
BLANK TEST	0.000	14:08
SUBJECT SAMPLE	0.000	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.078	14:09
BLANK TEST	0.000	14:10

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Final page for report

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2/12/2014