

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100377 Analyst Colleen O'Bryant Start Date 11/26/13
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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

- a. Levels Used
 - i. 0.020g/210L Mnf ILMO Lot 00813020A1 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 SD1198 Date Calibrated 1/23/13
 - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 - 1. Simulator S/N SD1088 Date Calibrated 1/23/13

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 SD1198 Date Calibrated 1/24/13
 - ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 - 1. Simulator S/N SD1177 Date Calibrated 1/23/13
 - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 - 1. Simulator S/N SD1199 Date Calibrated 1/23/13

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 12/2/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 11/26/2013
Time: 10:05:54

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 47.9°C PASSED

PUMP INFO

Flow Rate = 5.209 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: 100377

Date: 11/26/2013
Time: 10:35 AM

Temperatures (°C)

Sample Cell: 48.2°C
Breath Tube: 46.5°C

Current Barometer 29.6 in
Volume (Ltr) 1.52

Settings

Lamp: 1.78 V
Bias: 80 V
Cooler: 1.57 V
Chopper: 535 Hz

Voltages (V)

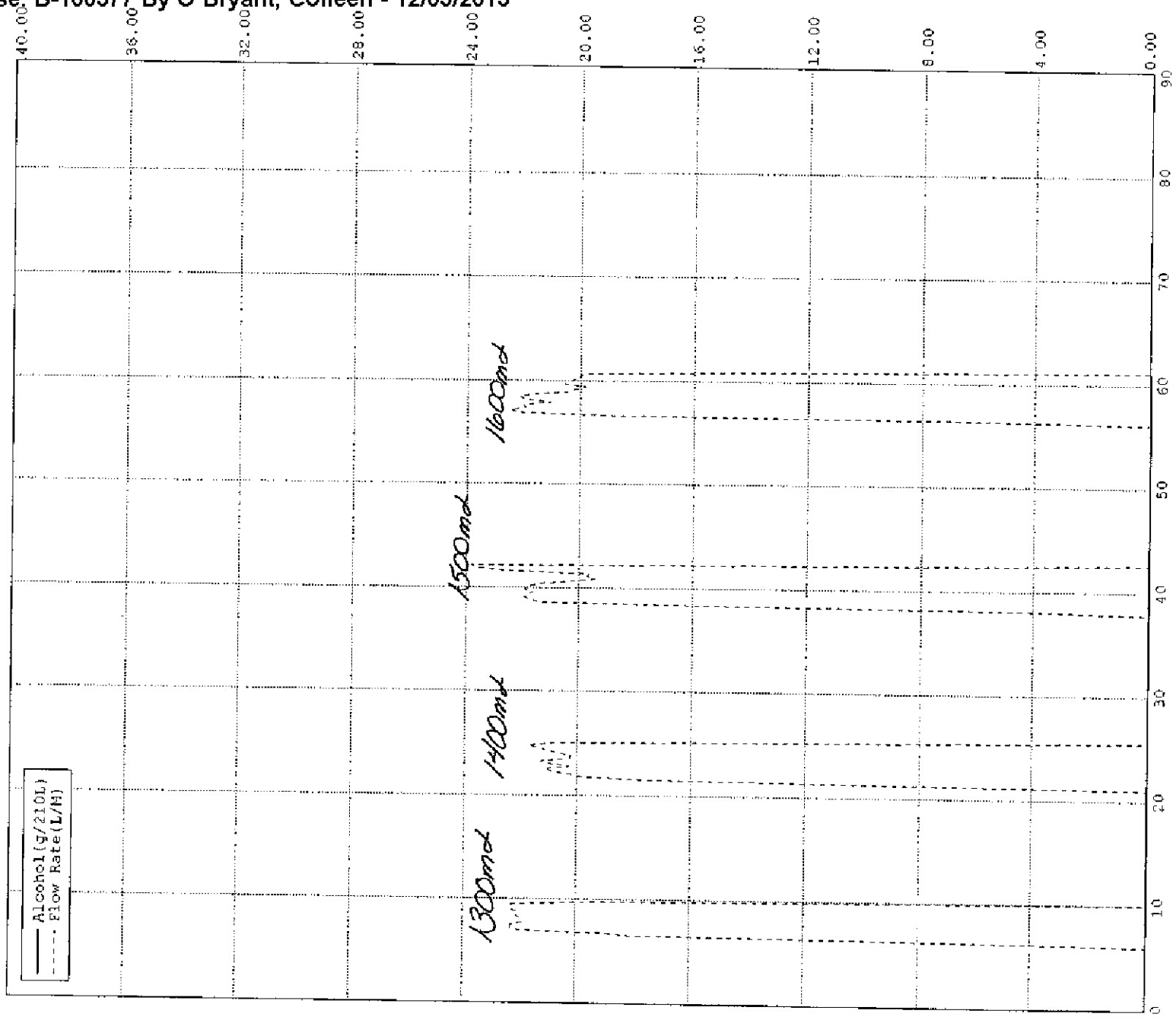
Flow: 1.05 v
Detector: -0.020 v

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100377

Date: 03/02/2011
Time: 17:28:44

Ca	=	0.1000			
CAL	=	0.980645	0.800	<=	CAL < 1.200
b1	=	0.0001	0.0000	<=	b1 < 0.0040
b2	=	0.0043	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0815	0.0500	<=	Xq < 0.2000
a21	=	1.183888	1.050	<=	a21 < 1.300
a31	=	0.379173	0.300	<=	a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100377

Date: 11/26/2013
 Time: 10:37:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

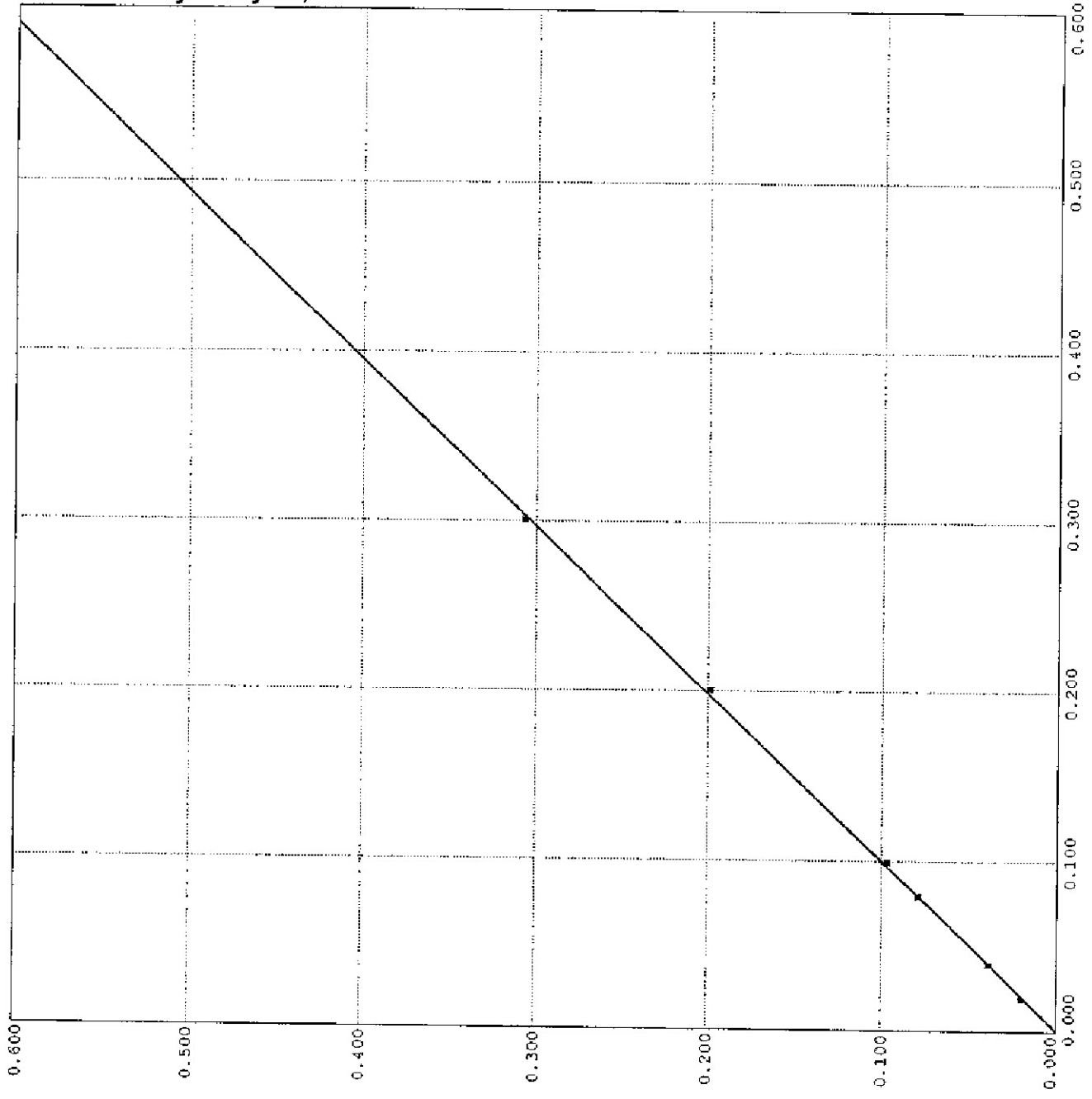
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:39
BLANK TEST	0.000	10:39
INTERNAL STANDARD	VERIFIED	10:39
EXTERNAL STANDARD	0.080	10:39
BLANK TEST	0.000	10:40
SUBJECT SAMPLE	0.000	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.079	10:42
BLANK TEST	0.000	10:43

CS



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

Date: 11/26/2013
 Time: 11:12:52

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0002
0.039	0.0401	0.0001
0.079	0.0802	0.0001
0.099	0.0979	0.0005
0.200	0.1994	0.0002
0.300	0.3075	0.0005

SLOPE = 1.016882
 R² = 0.999480

CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

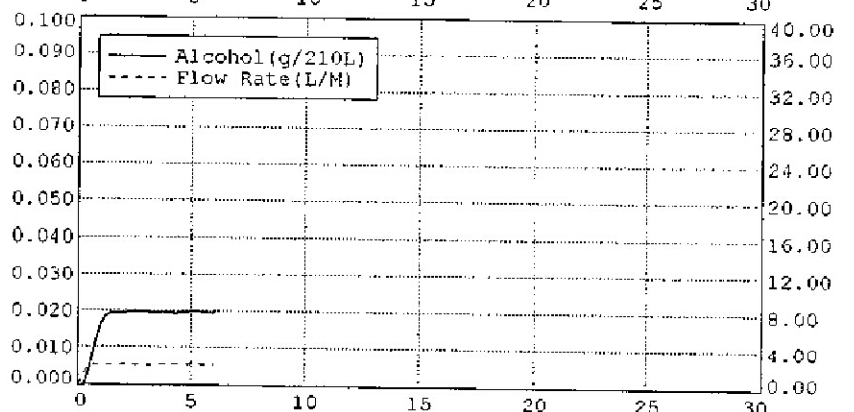
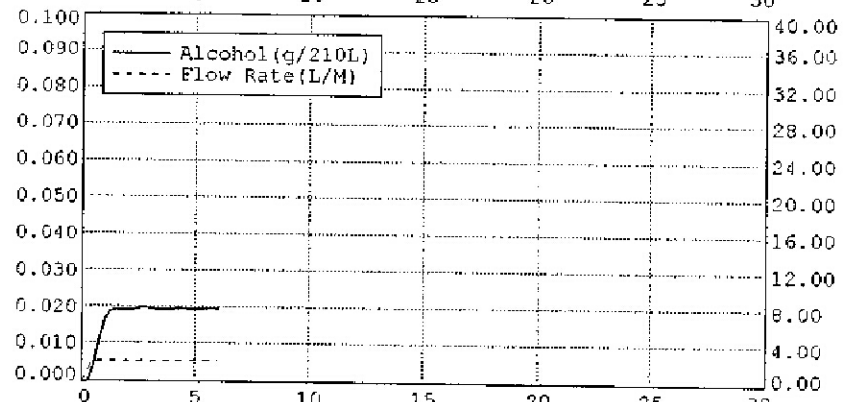
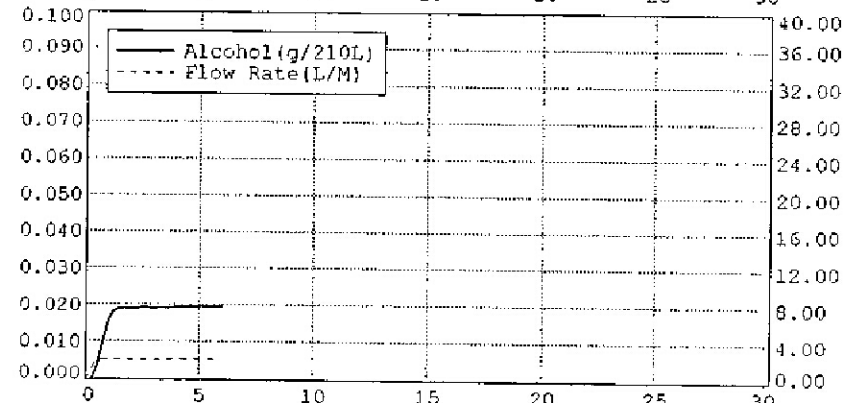
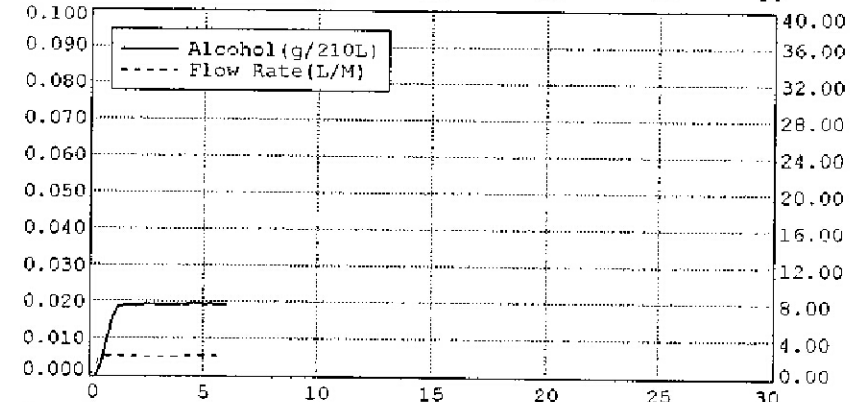
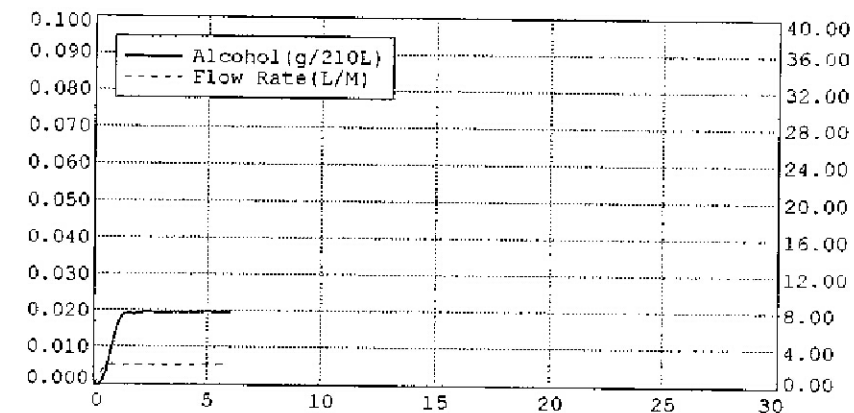
Date: 11/26/2013
 Time: 11:12:53

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.021	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.020	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.020	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.021	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.021	11:18
BLANK TEST	0.000	11:19

Average = 0.0209
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

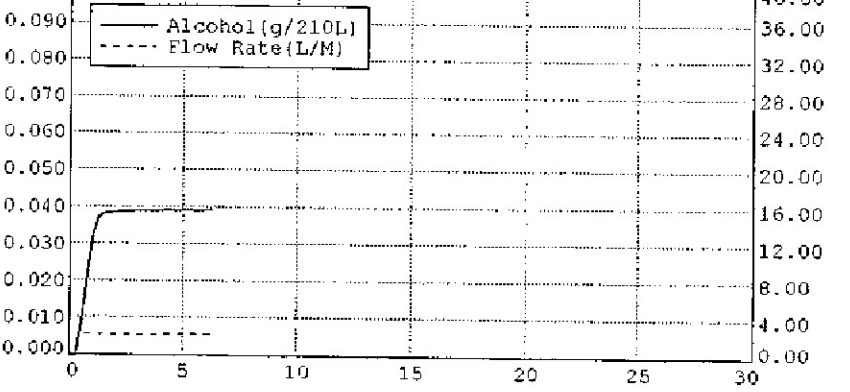
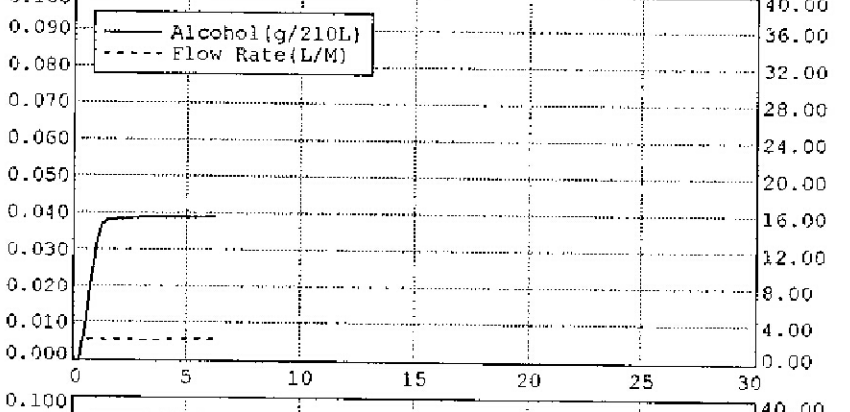
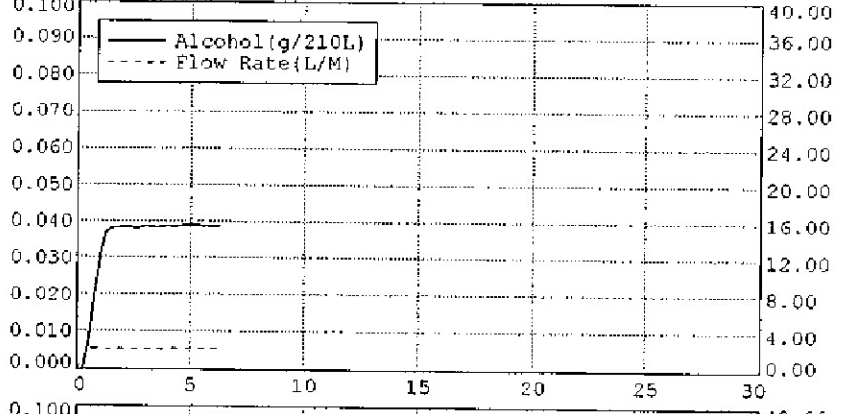
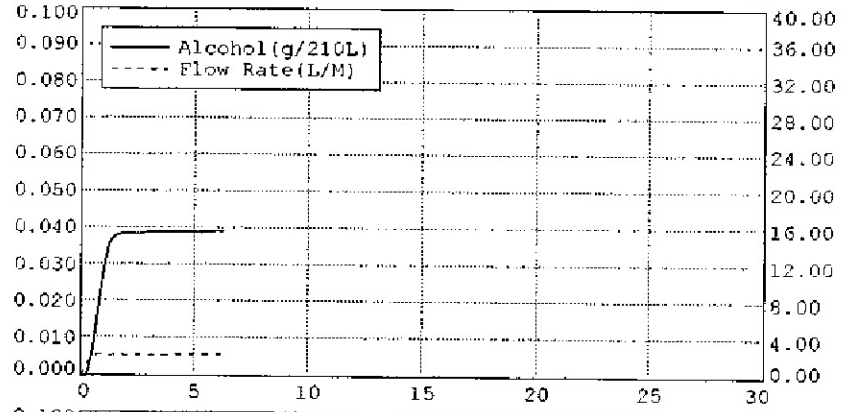
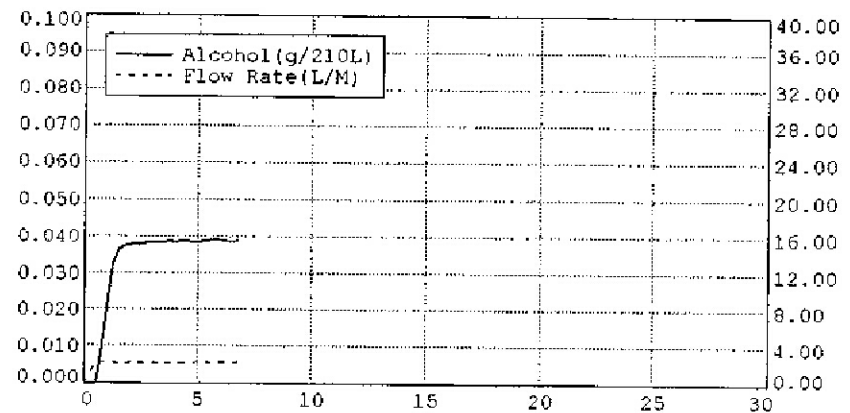
Alaska Department of Public Safety
 DATAMASTER dmt: 100377

Date: 11/26/2013
 Time: 14:31:02

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.64: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.040	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.040	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.040	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.040	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.040	14:38
BLANK TEST	0.000	14:38

Average = 0.0401
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

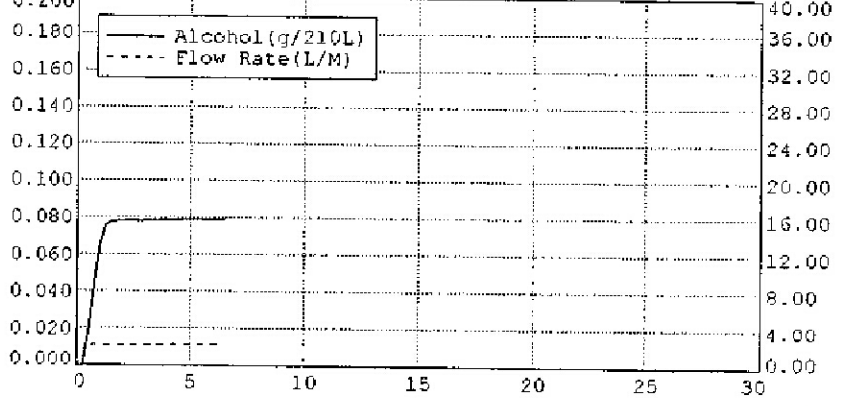
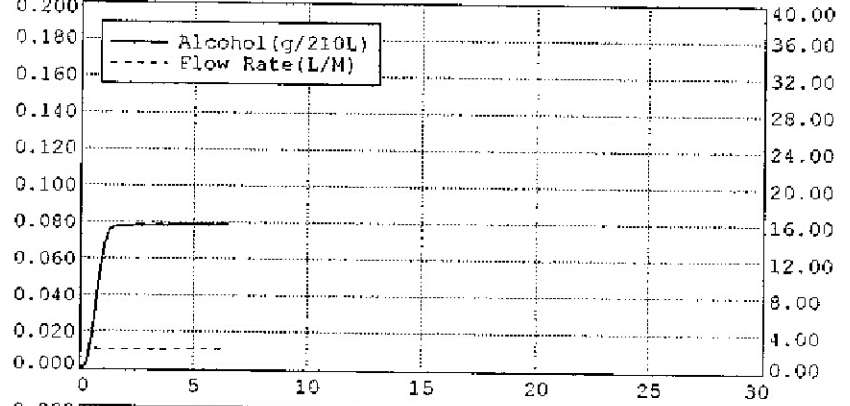
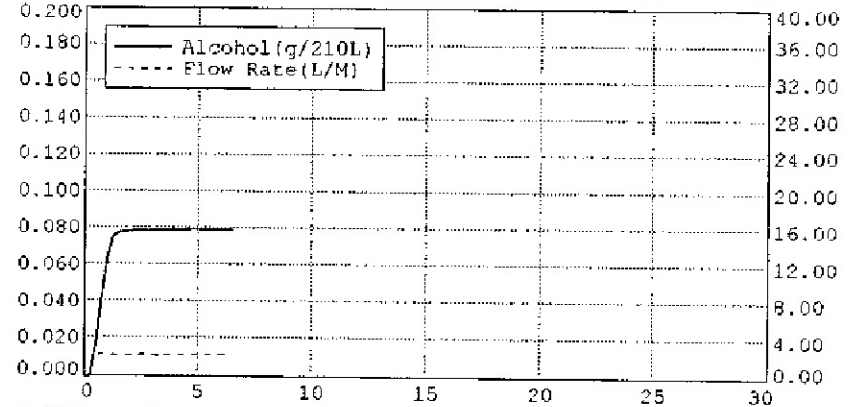
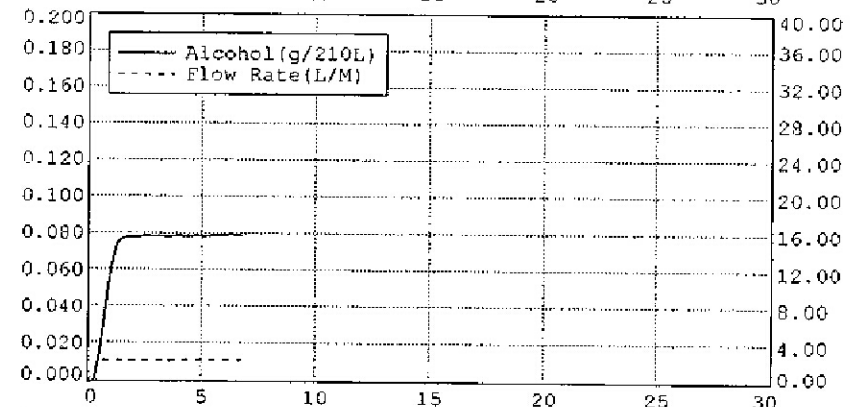
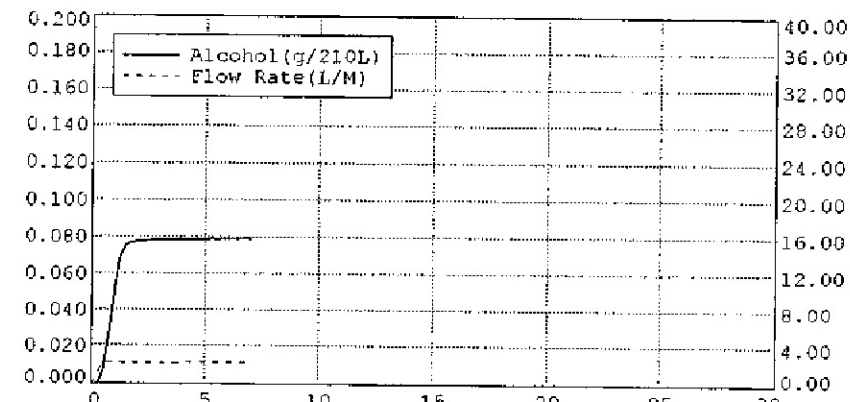
Date: 11/26/2013
 Time: 14:40:42

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.080	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.080	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.080	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.080	14:46
BLANK TEST	0.000	14:47

Average = 0.0802
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

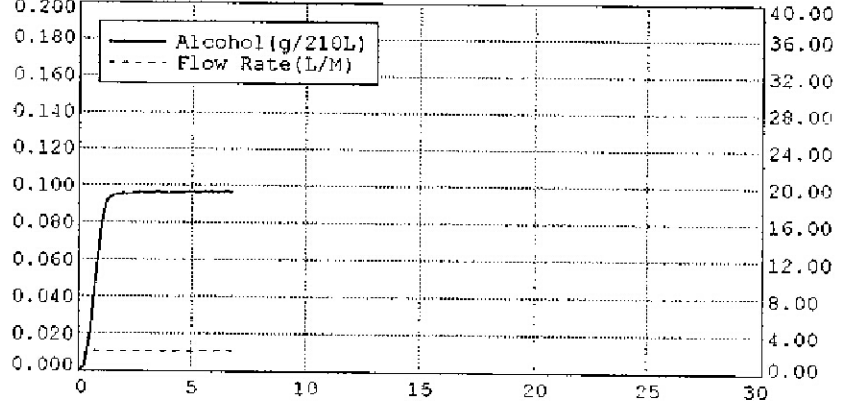
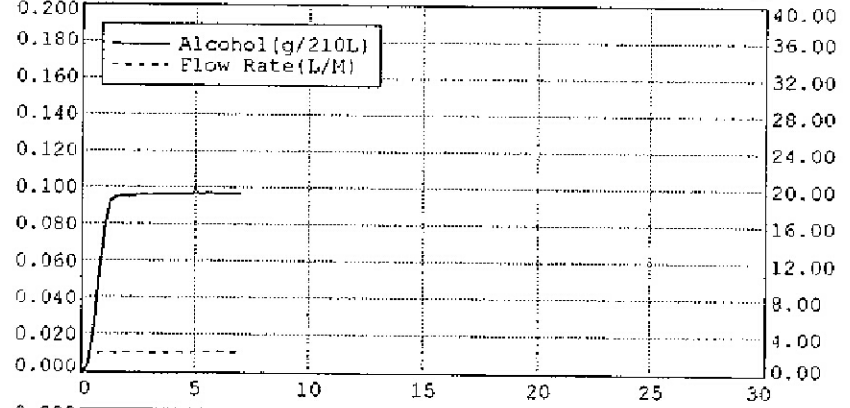
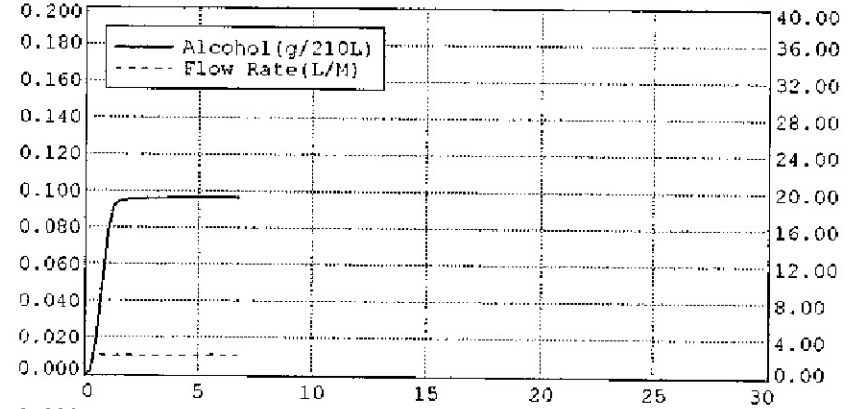
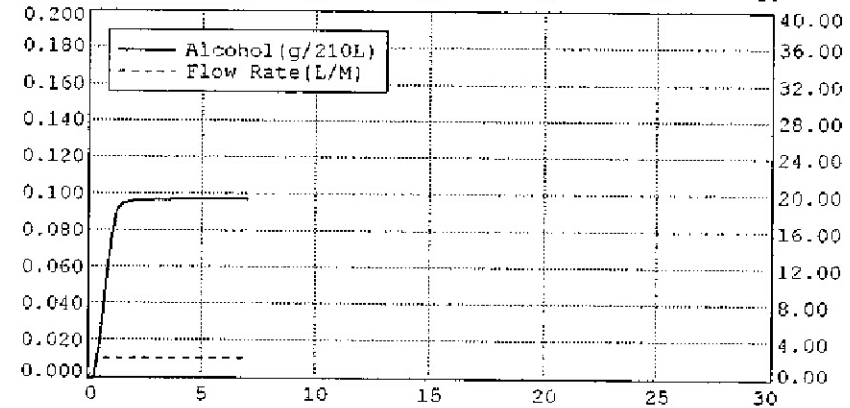
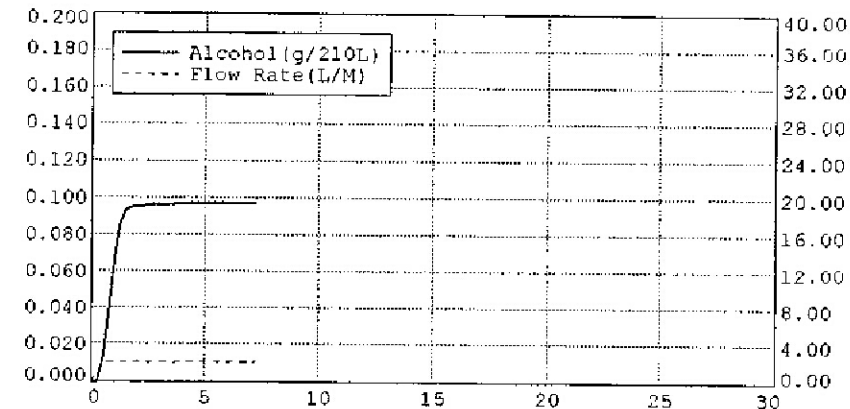
Date: 11/26/2013
 Time: 14:48:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.64: 0.099
 LOT #: 00913100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.098	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.097	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.097	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.097	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.097	14:55
BLANK TEST	0.000	14:56

Average = 0.0979
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

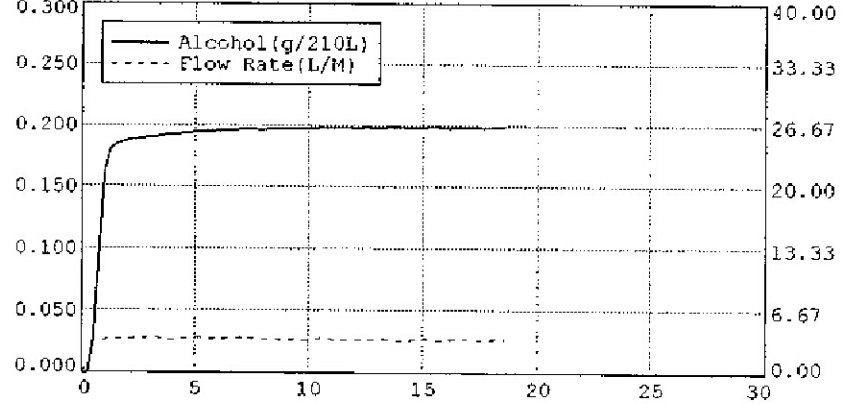
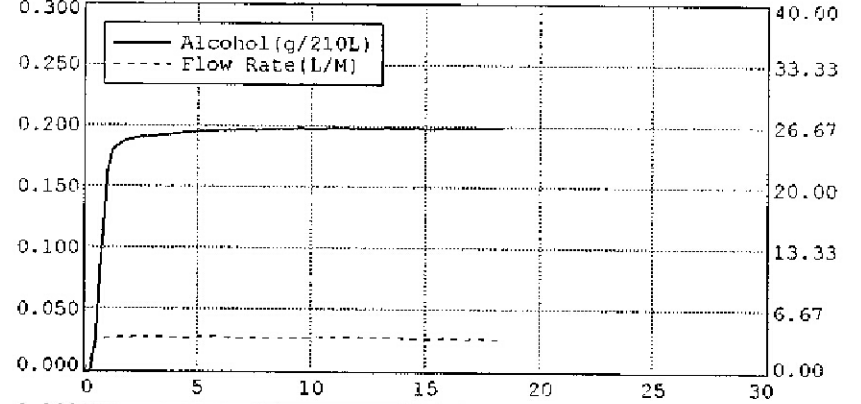
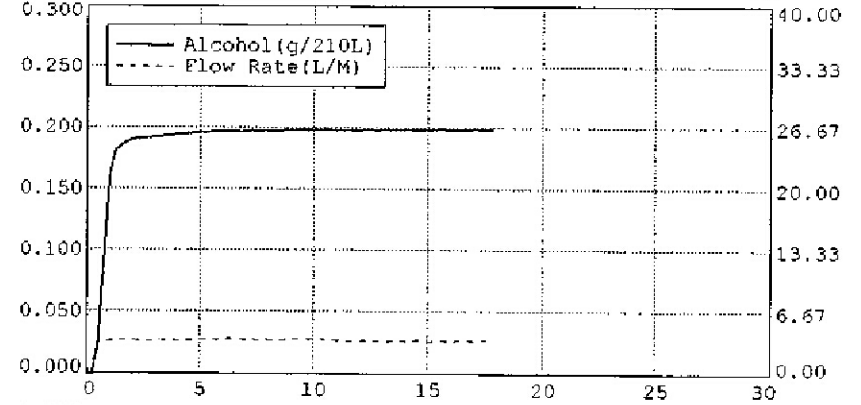
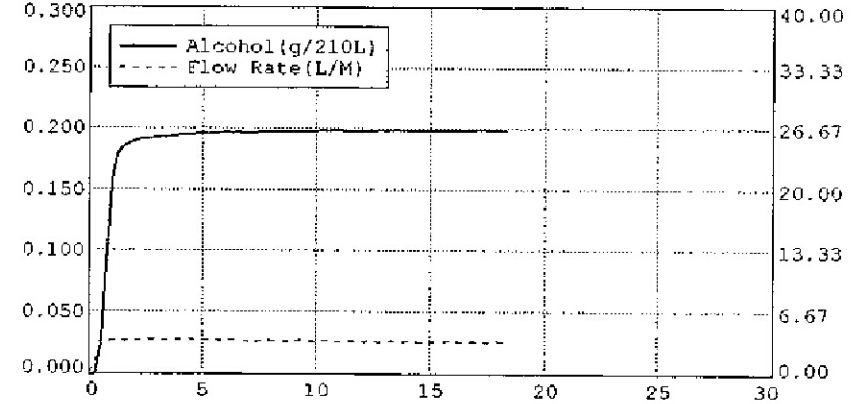
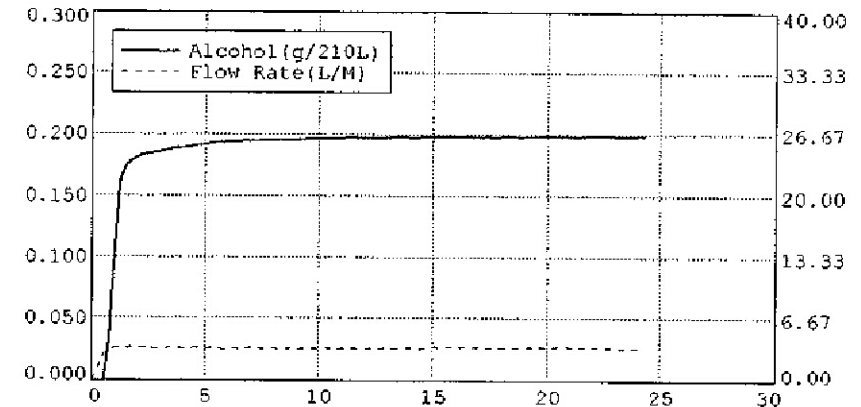
Date: 11/26/2013
 Time: 14:57:44

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.199	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.199	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.199	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.199	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.199	15:04
BLANK TEST	0.000	15:05

Average = 0.1994
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

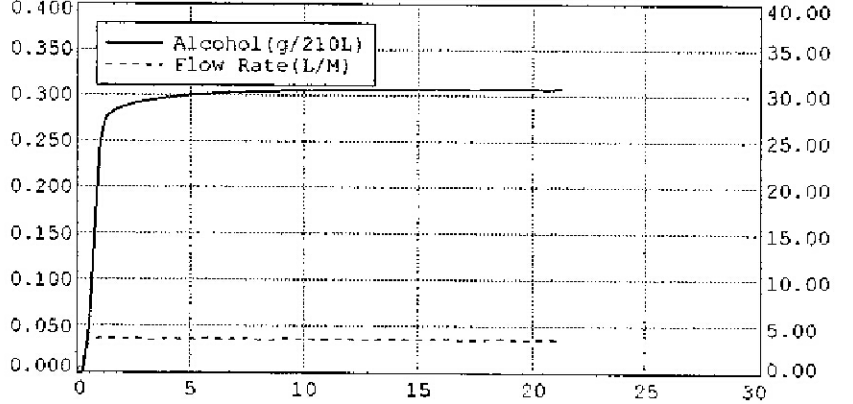
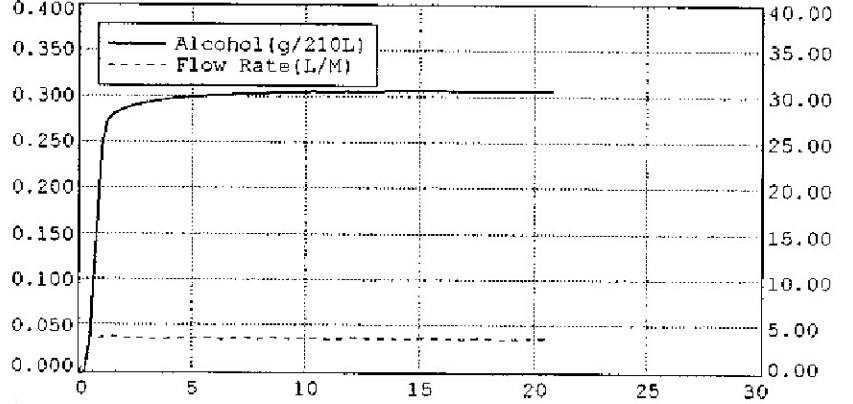
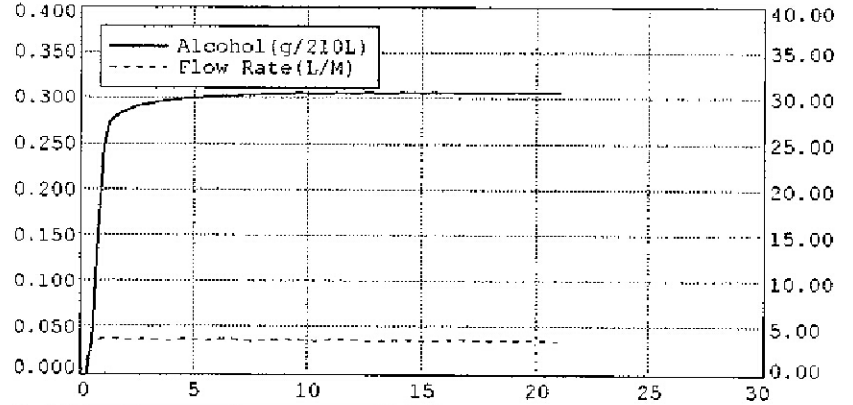
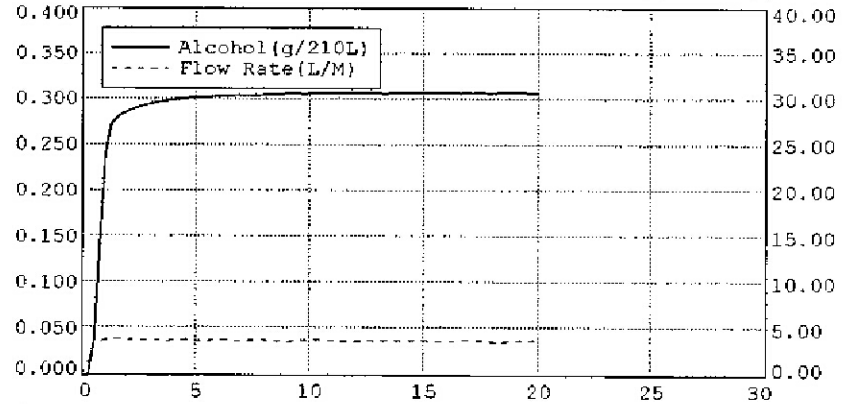
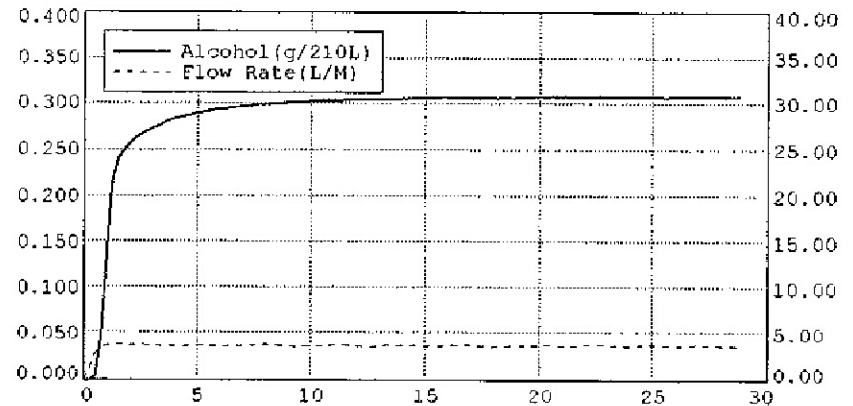
Date: 11/26/2013
 Time: 15:06:51

EXTERNAL STANDARD INFORMATION

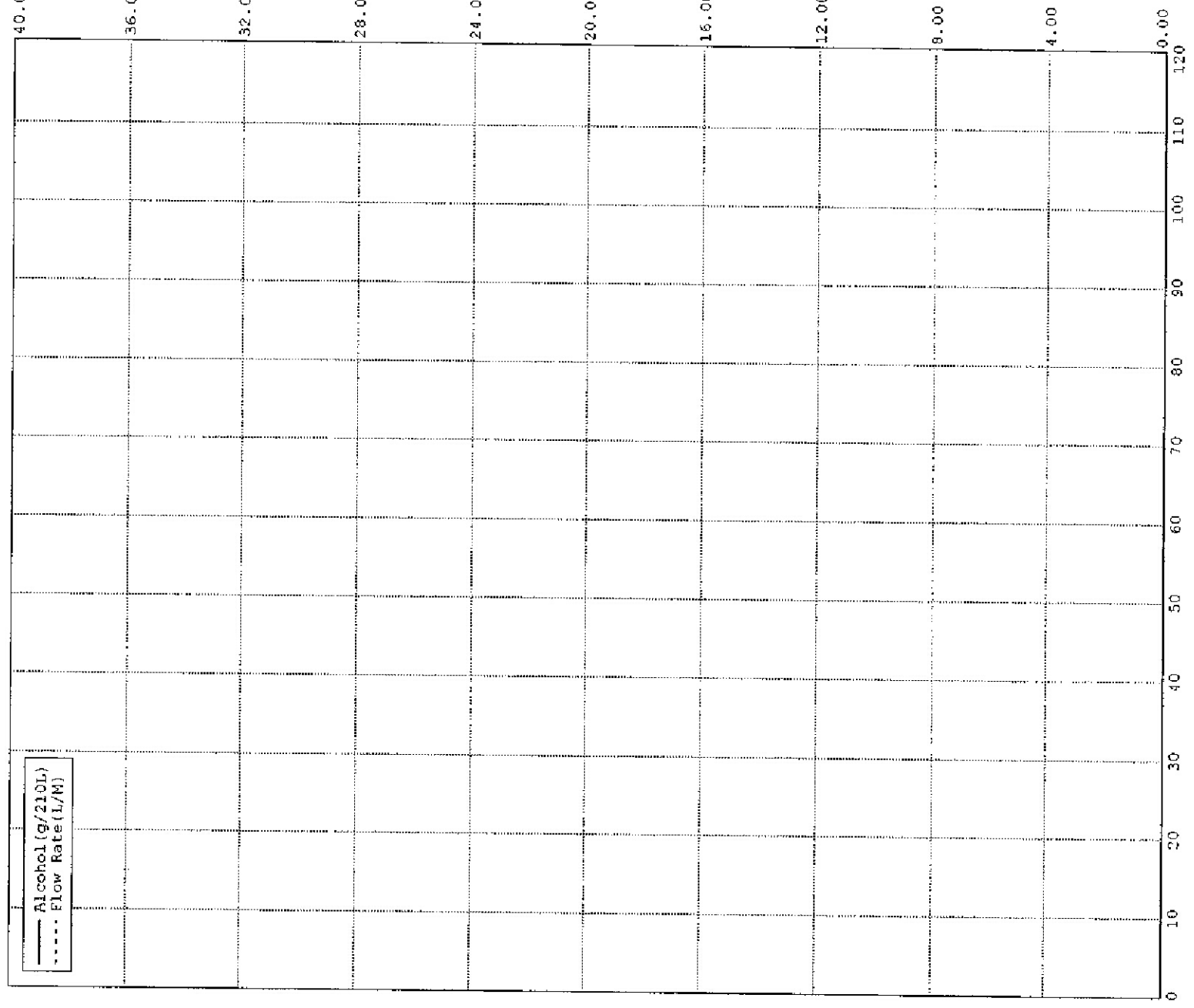
NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	15:07
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.308	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.307	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.306	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.307	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.307	15:14
BLANK TEST	0.000	15:15

Average = 0.3075
 Std Dev = 0.0005



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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 12/02/2013
Time: 14:08:27

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 30.45: 0.081
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.081	14:09
BLANK TEST	0.000	14:10
SUBJECT SAMPLE	INCOMPLETE	14:12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 12/02/2013
Time: 14:19:24

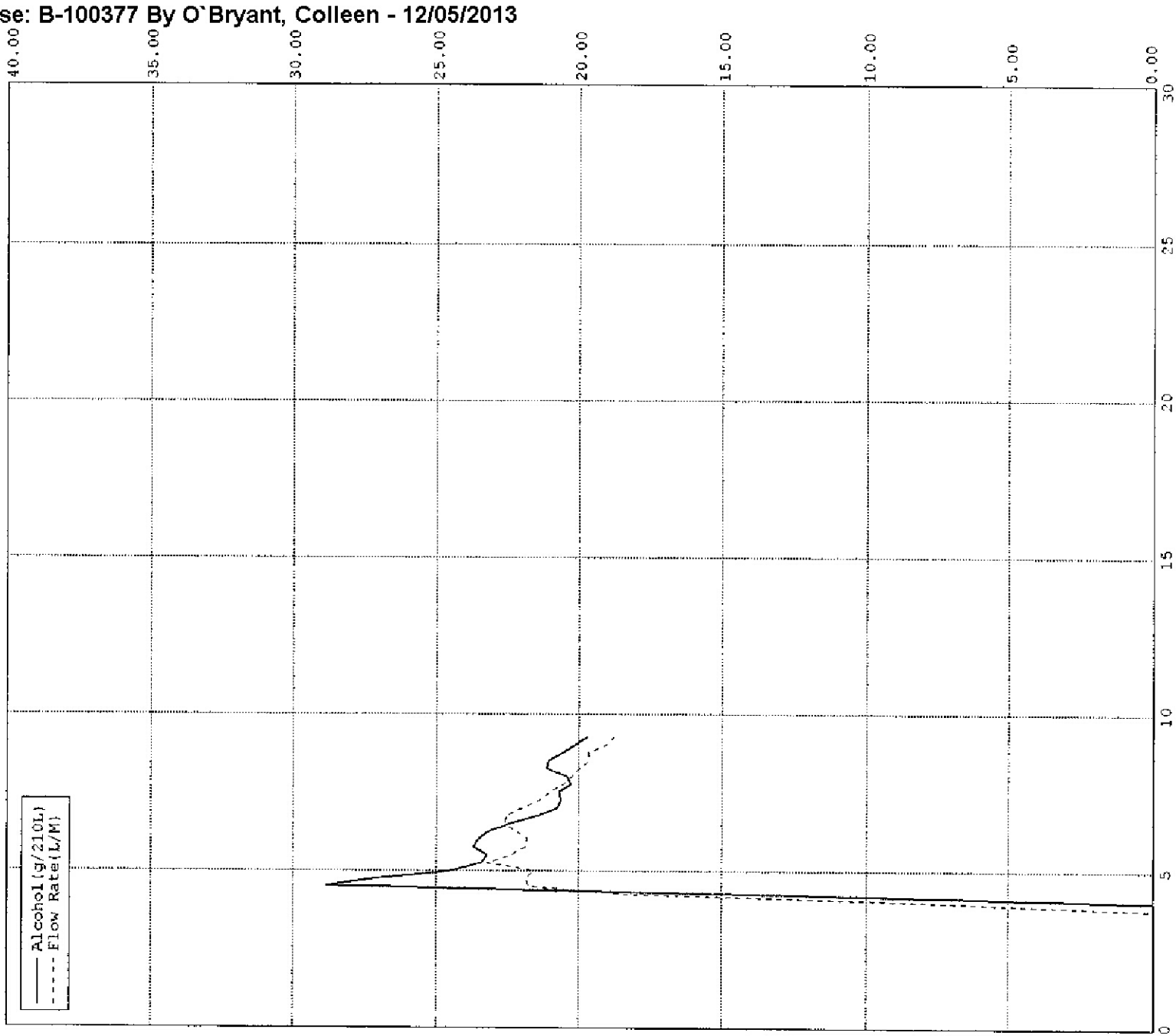
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

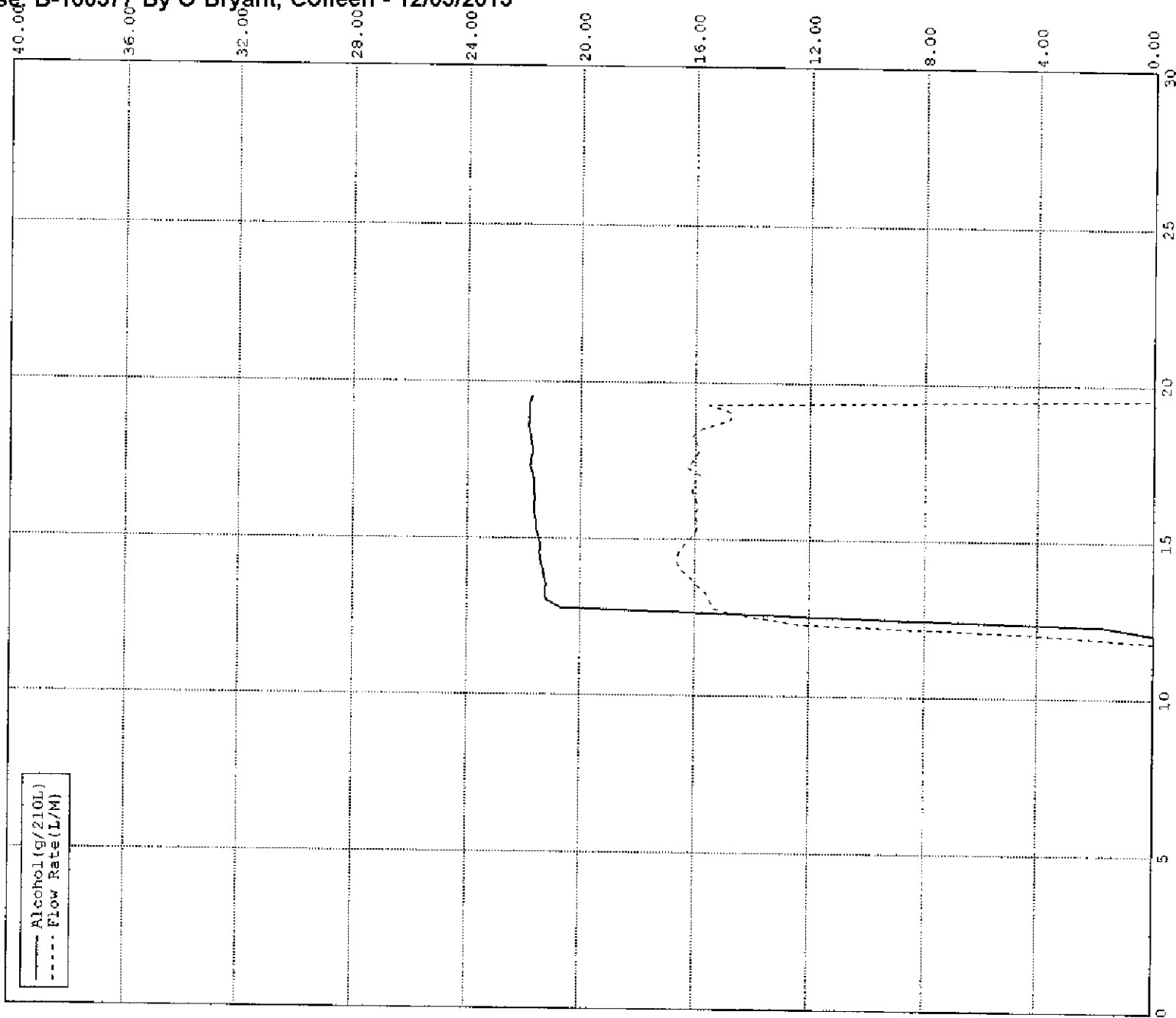
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.45: 0.081
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:20
INTERNAL STANDARD VERIFIED 14:20
EXTERNAL STANDARD 0.083 14:21
BLANK TEST 0.000 14:21
SUBJECT SAMPLE INVALID 14:22





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100377

 Date: 12/02/2013
 Time: 14:25:05

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

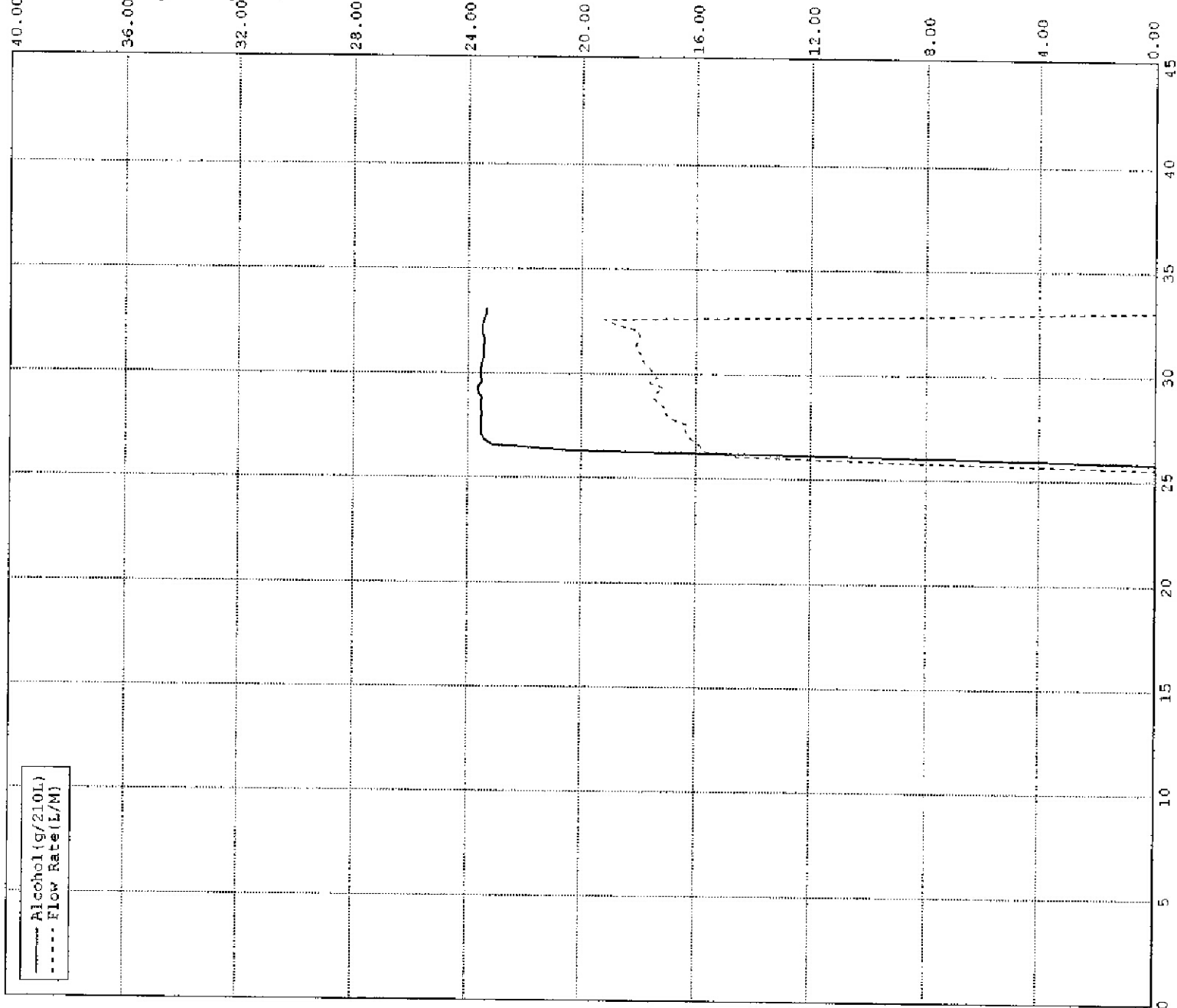
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.45: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 14:28
BLANK TEST 0.000 14:28
INTERNAL STANDARD VERIFIED 14:28
 Xq = 0.082 (0.85%)
EXTERNAL STANDARD 0.082 14:28
 X[1] = 0.0821 (-0.0010) (0.0003)
BLANK TEST 0.000 14:29
SUBJECT SAMPLE INTERFERENCE 14:30
 X[1] = 0.1092 (-0.0171) (-0.0005)

CS



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100377

 Date: 12/02/2013
 Time: 14:32:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:
 AAAL

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.45: 0.081
 LOT #: 22612080AL
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 14:33
 BLANK TEST 0.000 14:33
 INTERNAL STANDARD VERIFIED 14:33
 Xg = 0.082 (0.53%)
 EXTERNAL STANDARD 0.081 14:33
 X[1] = 0.0818 (-0.0005) (0.0008)
 BLANK TEST 0.000 14:34
 SUBJECT SAMPLE INTERFERENCE 14:35
 X[1] = 0.1171 (-0.0284) (-0.0010)

CS

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 12/02/2013
Time: 14:53:09

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

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

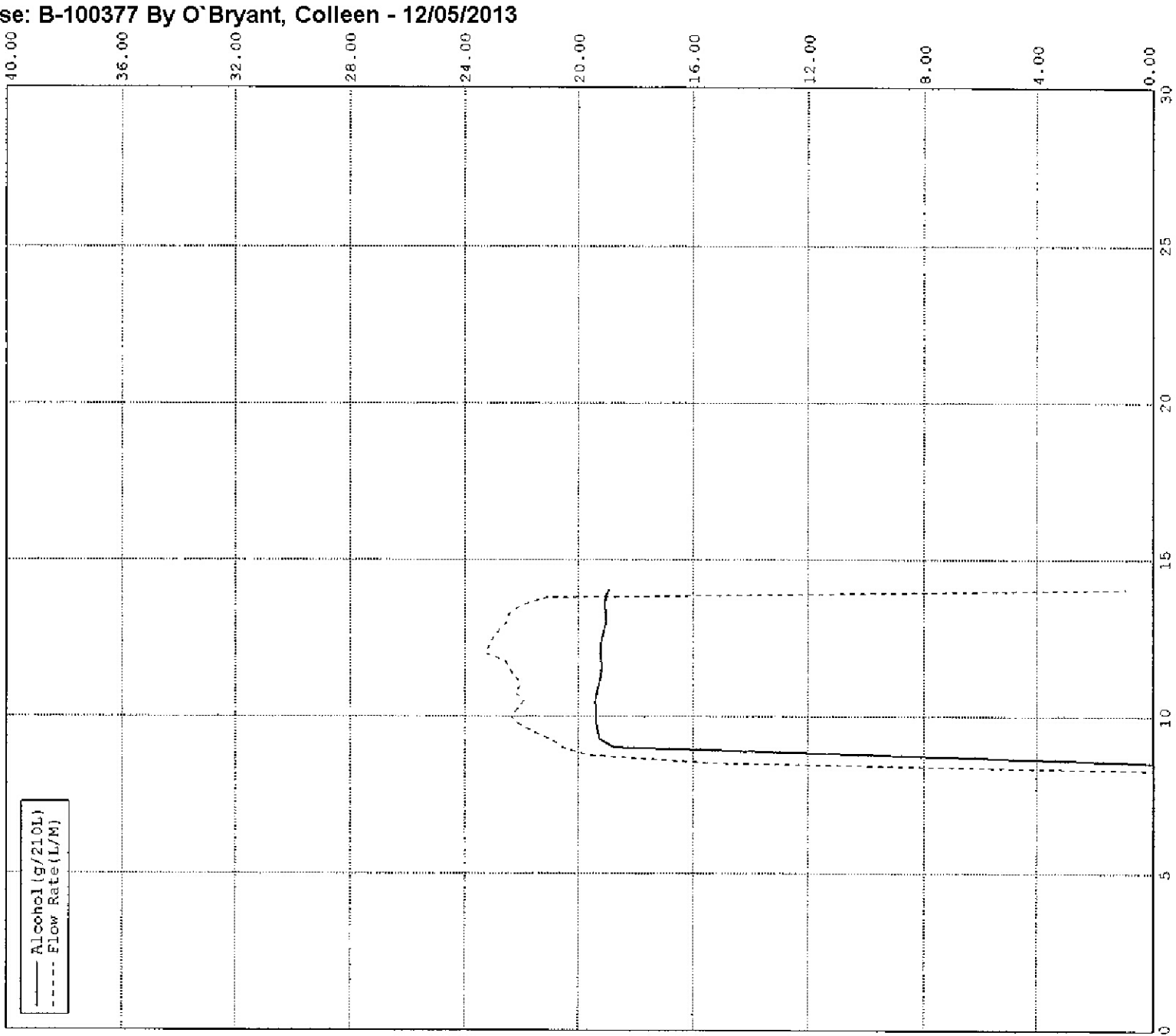
DEPT/AGENCY:
AAA1
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.44: 0.081
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:10
BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
X _g = 0.083 (1.398)		
EXTERNAL STANDARD	0.082	15:10
X[1] = 0.0823 (-0.0005) (0.0007)		
BLANK TEST	0.000	15:11
SUBJECT SAMPLE (Vol=2.00L)	0.095	15:11
X[1] = 0.0951 (-0.0012) (-0.0003)		
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.081	15:13
X[1] = 0.0819 (-0.0003) (0.0005)		
BLANK TEST	0.000	15:13

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 12/02/2013
Time: 15:16:25

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

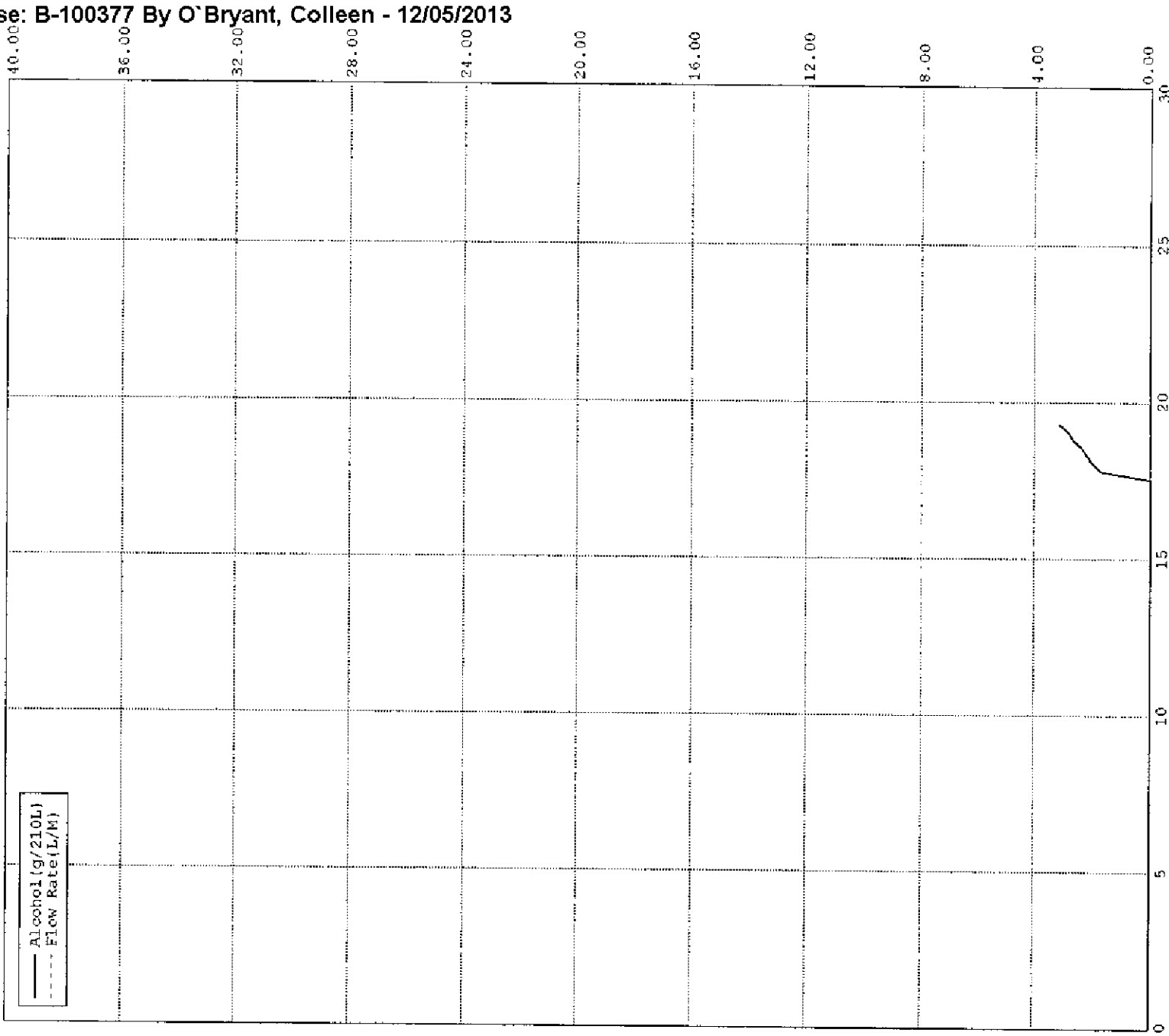
DEPT/AGENCY:
AAAI
CASE/REPORT: 13-1234
TEST TYPE: TEST

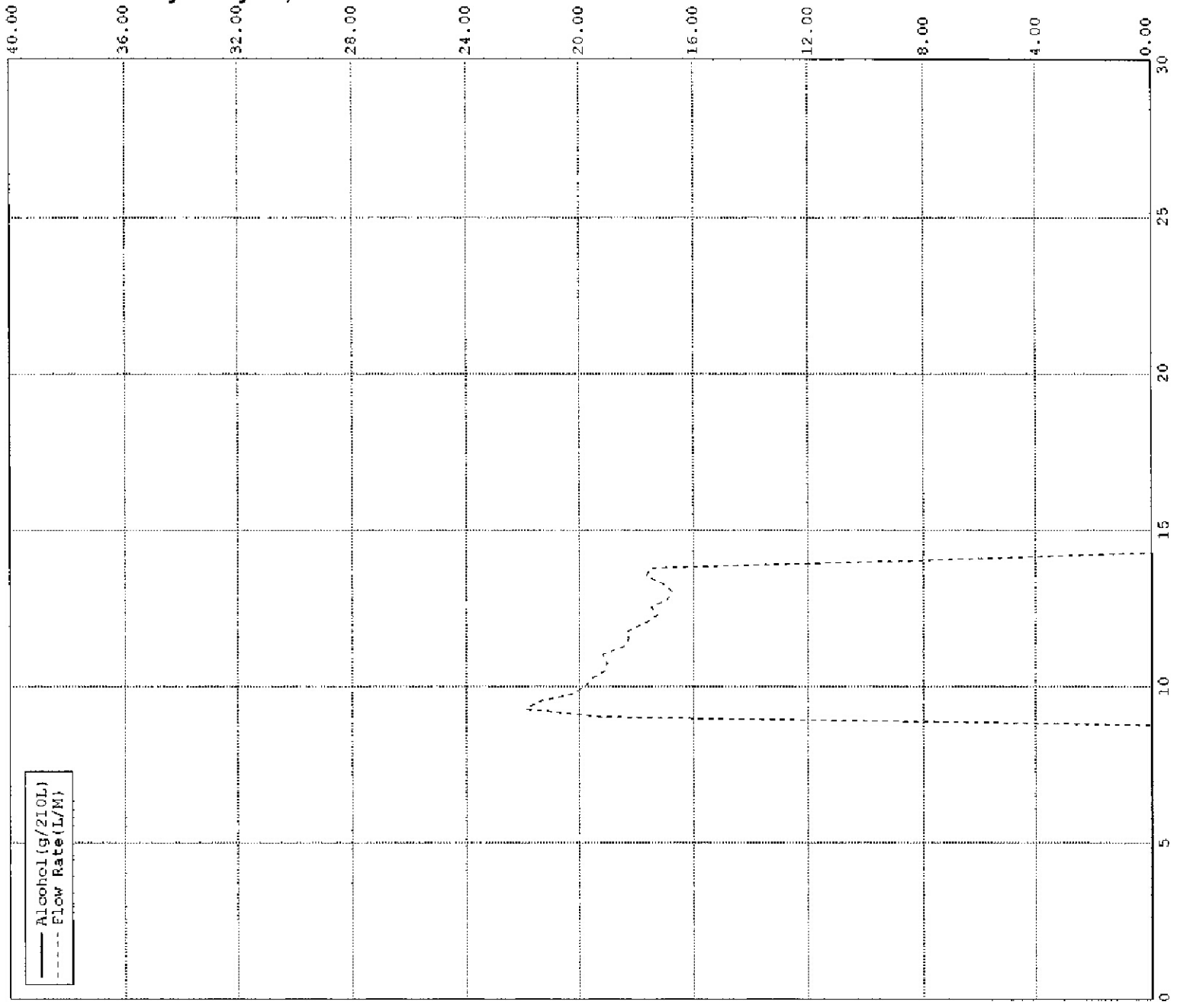
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.45: 0.081
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 15:19
BLANK TEST 0.000 15:20
INTERNAL STANDARD VERIFIED 15:20
EXTERNAL STANDARD 0.082 15:20
BLANK TEST 0.000 15:21

RFI DETECTED





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100377

 Date: 12/02/2013
 Time: 15:32:14

SUBJECT NAME:
TEST TEST
LICENSE #: NON DRINKING

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 30.44: 0.081
LOT #: 22612080A1
EXPIRATION: 09/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	15:33
BLANK TEST	0.000	15:33
INTERNAL STANDARD	VERIFIED	15:33
EXTERNAL STANDARD	0.082	15:33
BLANK TEST	0.000	15:34
SUBJECT SAMPLE	0.000	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.082	15:36
BLANK TEST	0.000	15:37

CAB

Final page for report

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12/10/2013