

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 100683 Analyst Colleen O'Bryant Start Date 8/23/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
- iv. Chopper Frequency
- v. Detector Voltage (-0.100V to 0.100V)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1.6 L (1.3L to 1.7L) ☒

5. 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 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf Guth Lot 14130 Exp 3/12/16
 1. Simulator S/N DR5298 Date Calibrated 2/19/14
- vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N SD1177 Date Calibrated 2/20/14

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒

- i. Acetone - Mnf Guth Lot 14030 Level 0.100 Exp 10/1/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
- ii. Isopropanol - Mnf Guth Lot 14030 Level 0.100 Exp 10/1/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
- iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

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 8/25/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 08/21/2014
Time: 14:24:30

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 = 4.788 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Technician Screen

DATAMASTER dmt: 100683

Date: 08/22/2014

Time: 10:53 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 47.4°C

Current Barometer 30.0 in

Volume (Ltr) 1.47

Settings

Lamp: 1.67 V

Bias: 80 V

Cooler: 1.67 V

Chopper: 556 Hz

Voltages (V)

Flow: 1.02 V

Detector: -0.009 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 07/11/2012
Time: 14:00:01

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000		
CAL	=	0.988714	0.800	<= CAL < 1.200
b1	=	0.0014	0.0000	<= b1 < 0.0040
b2	=	0.0087	0.0010	<= b2 < 0.0100
b3	=	0.0009	0.0000	<= b3 < 0.0040
Xq	=	0.1035	0.0500	<= Xq < 0.2000
a21	=	1.205951	1.050	<= a21 < 1.300
a31	=	0.512447	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100683

Date: 08/22/2014
Time: 10:56:26

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

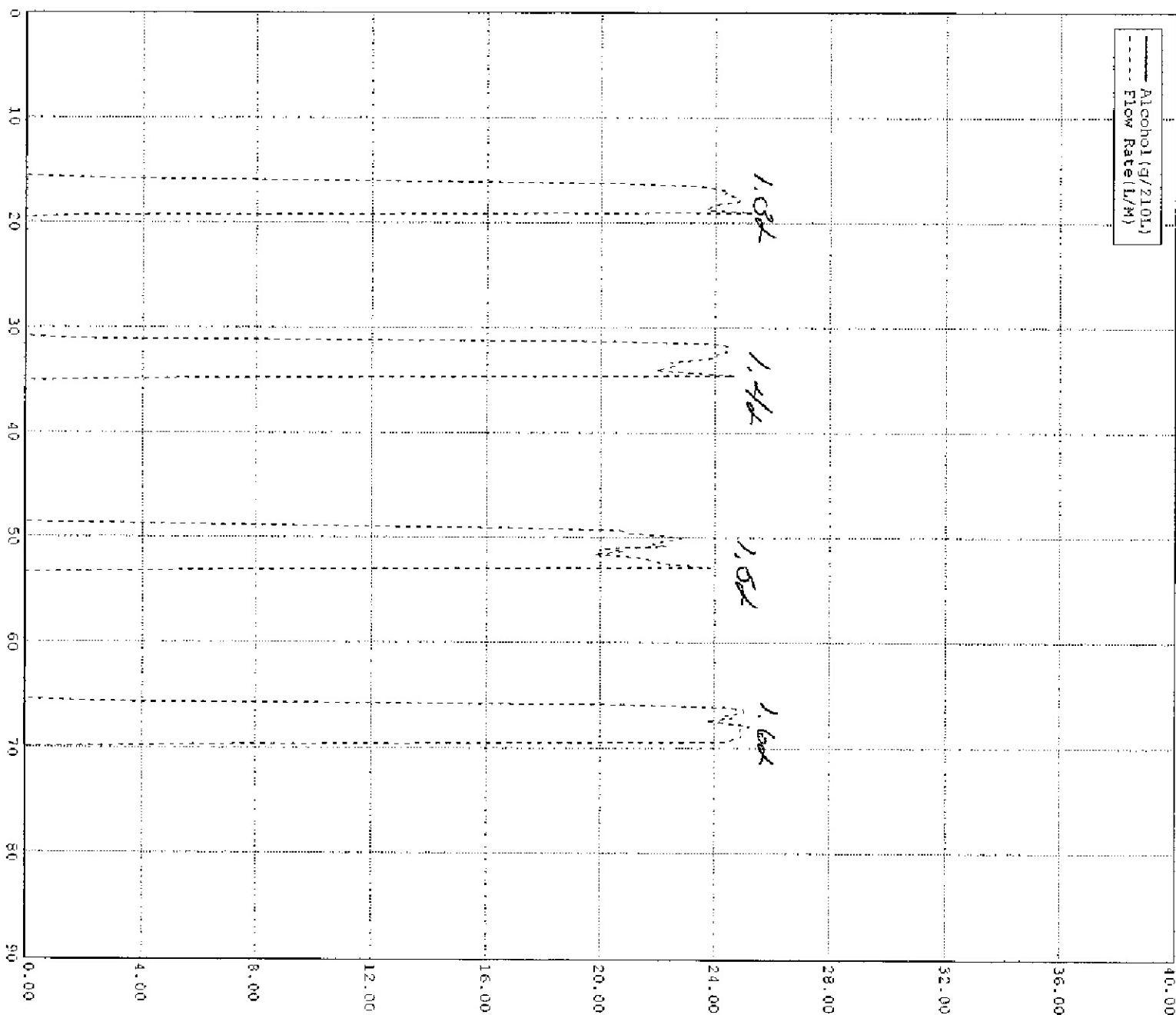
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:57
BLANK TEST	0.000	10:57
INTERNAL STANDARD	VERIFIED	10:57
EXTERNAL STANDARD	0.080	10:57
BLANK TEST	0.000	10:58
SUBJECT SAMPLE	0.000	11:00
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.080	11:01
BLANK TEST	0.000	11:02

CS



LINEARITY CHECK

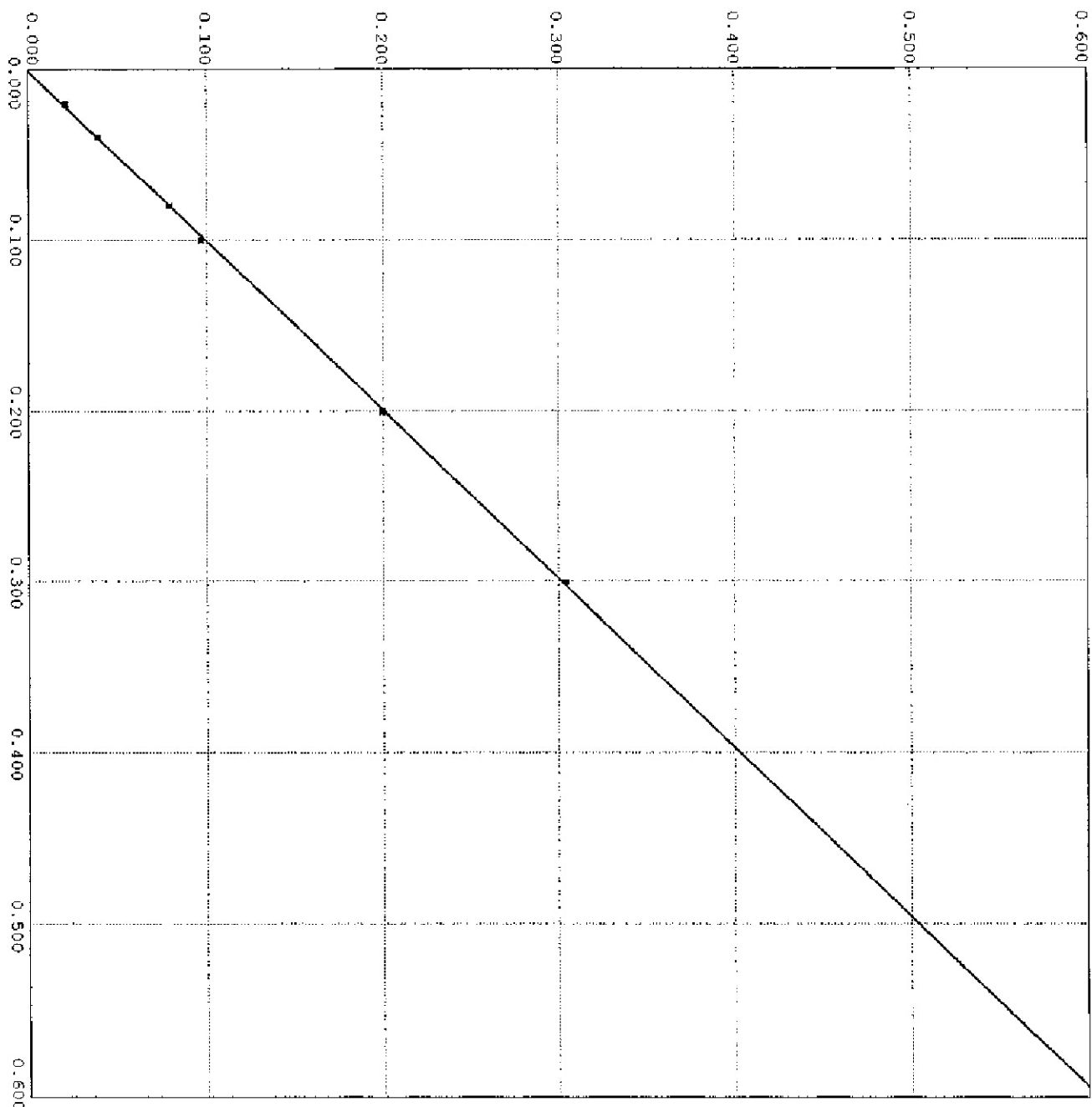
Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 08/22/2014
 Time: 11:22:24

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0217	0.0001
0.040	0.0403	0.0002
0.080	0.0803	0.0001
0.100	0.0980	0.0002
0.200	0.2004	0.0007
0.300	0.3047	0.0002

SLOPE = 1.012181
 R^2 = 0.999728



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dnt: 100683

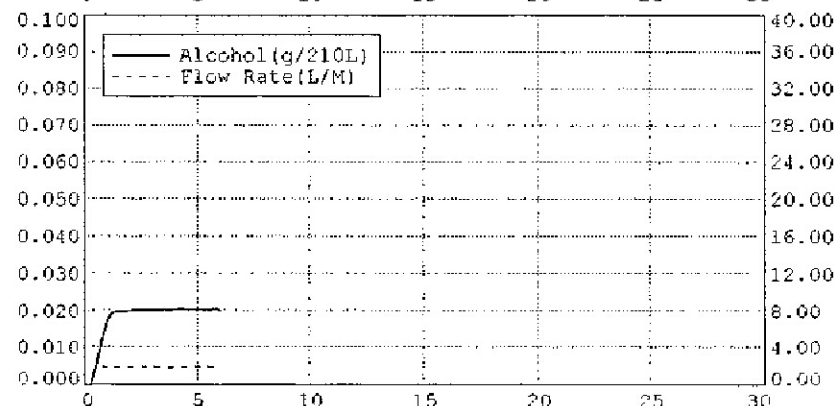
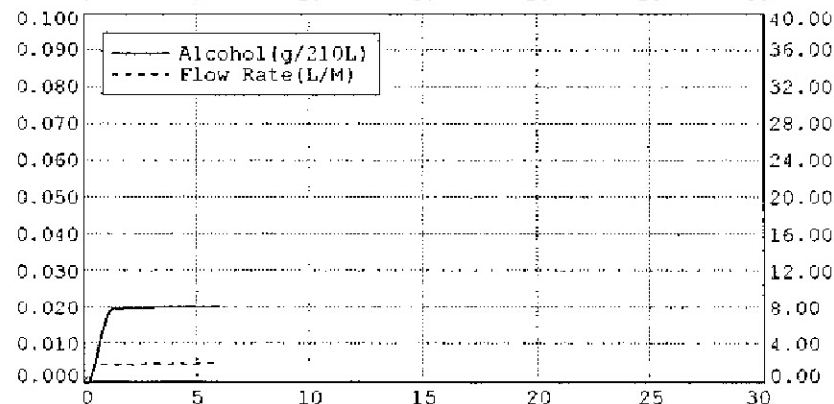
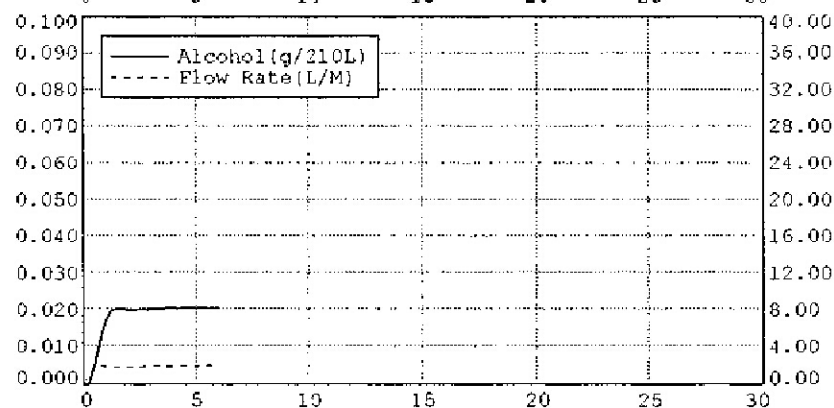
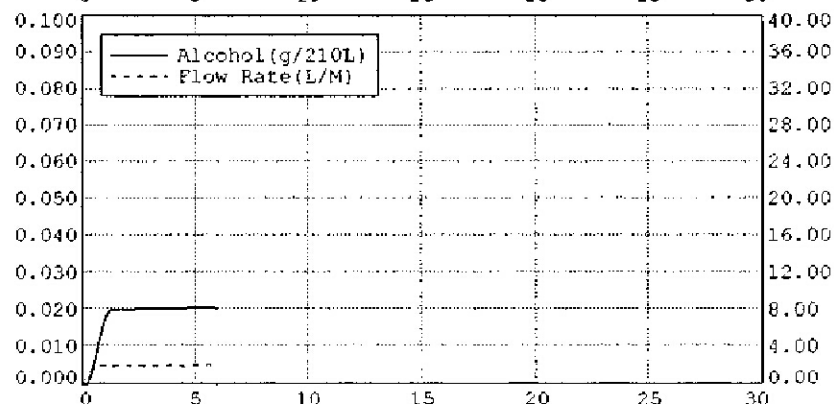
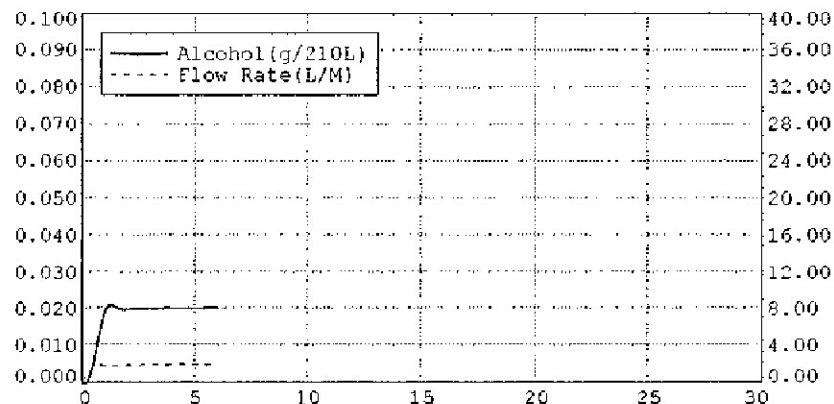
Date: 08/22/2014
Time: 11:22:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.97: 0.020
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.021	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.021	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.021	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.021	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.021	11:30
BLANK TEST	0.000	11:31

Average = 0.0217
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dnt: 100683

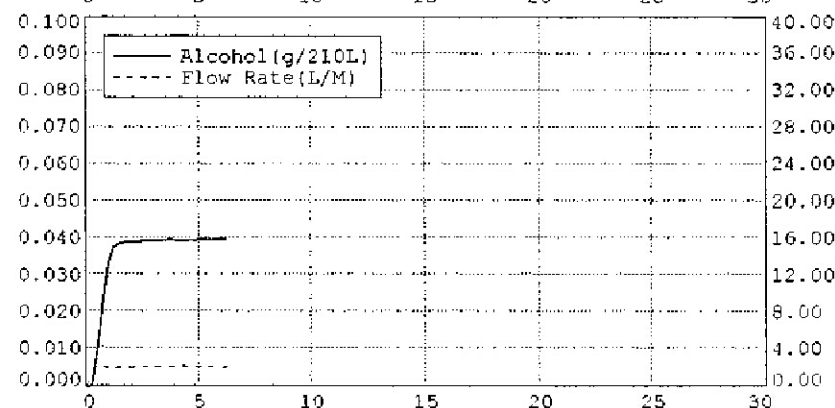
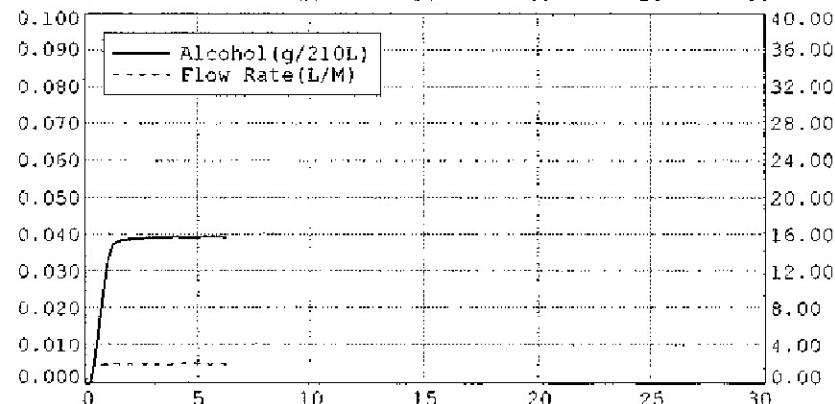
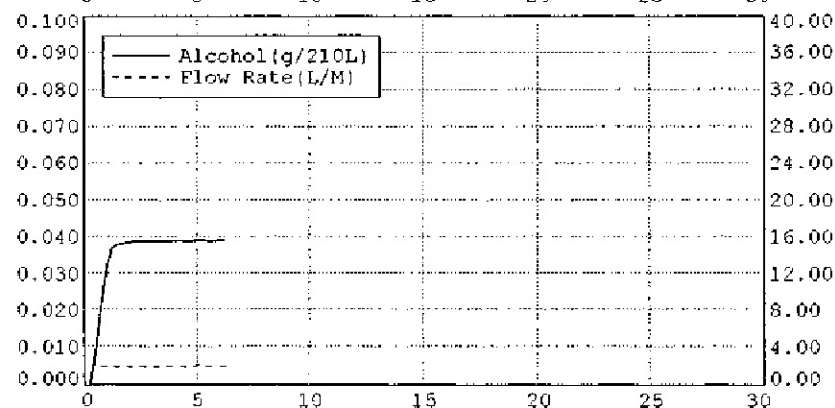
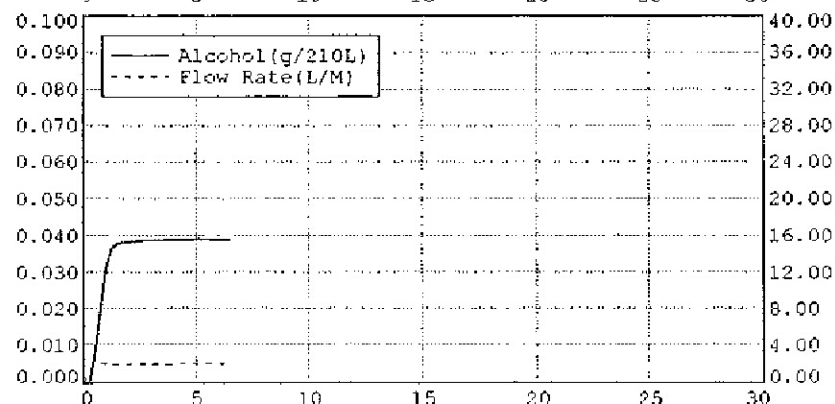
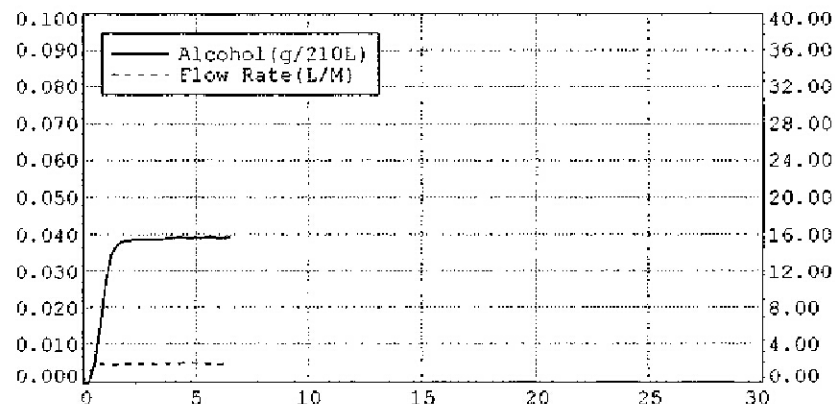
Date: 08/22/2014
Time: 11:32:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.97: 0.040
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
EXTERNAL STANDARD	0.040	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.040	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.040	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.040	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.040	11:38
BLANK TEST	0.000	11:39

Average = 0.0403
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100683

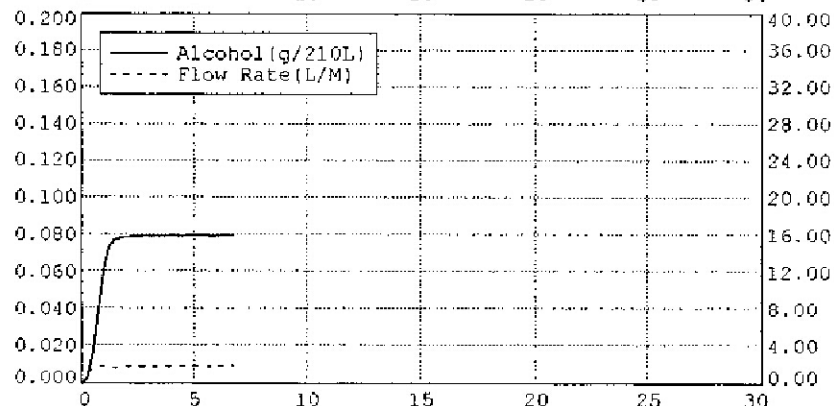
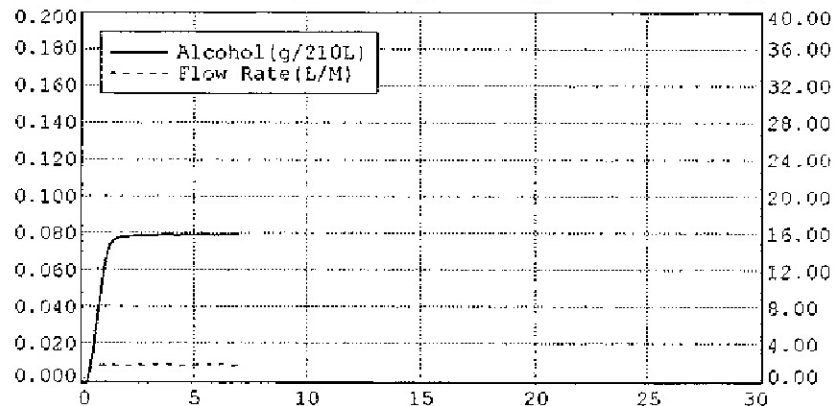
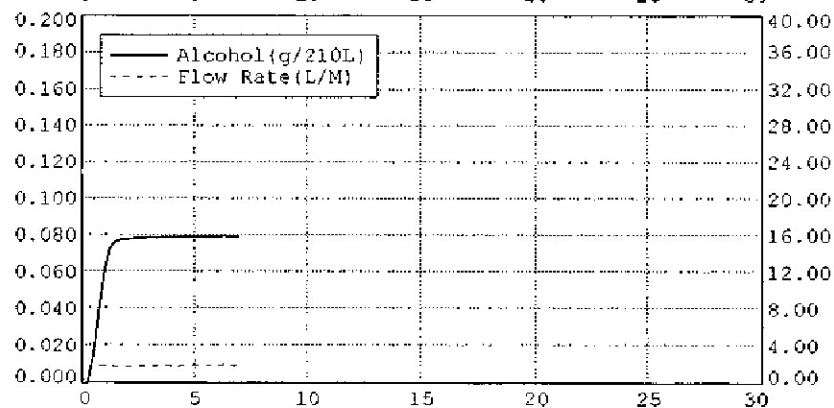
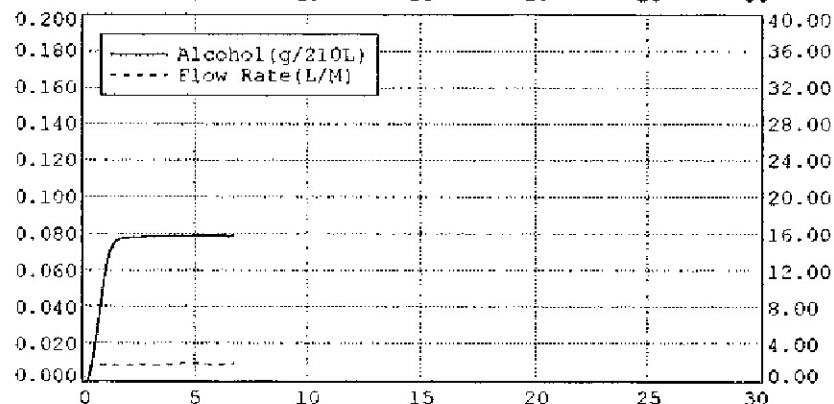
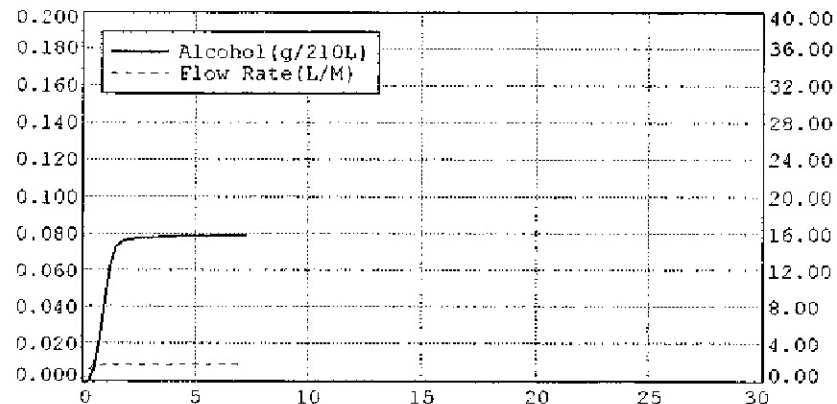
Date: 08/22/2014
Time: 11:41:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	11:42
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.080	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.080	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.080	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.080	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.080	11:46
BLANK TEST	0.000	11:47

Average = 0.0803
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100683

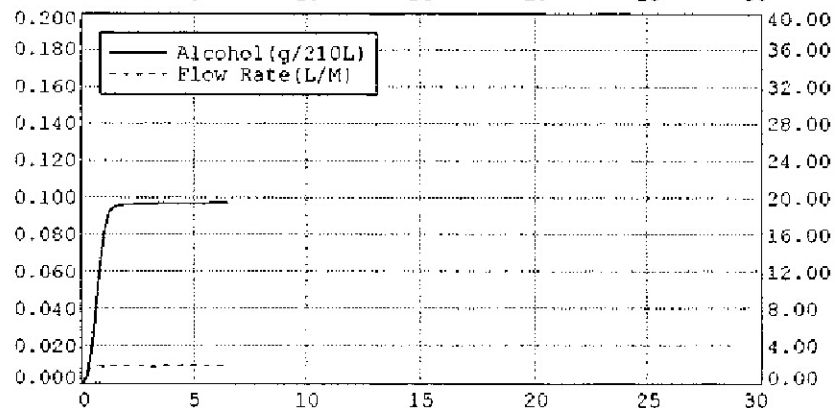
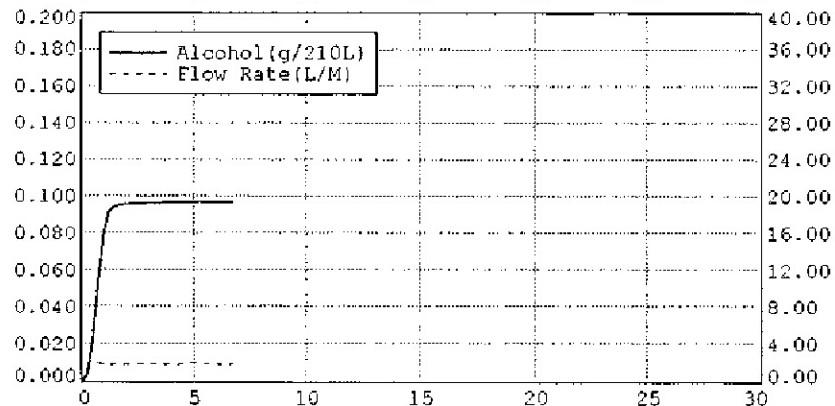
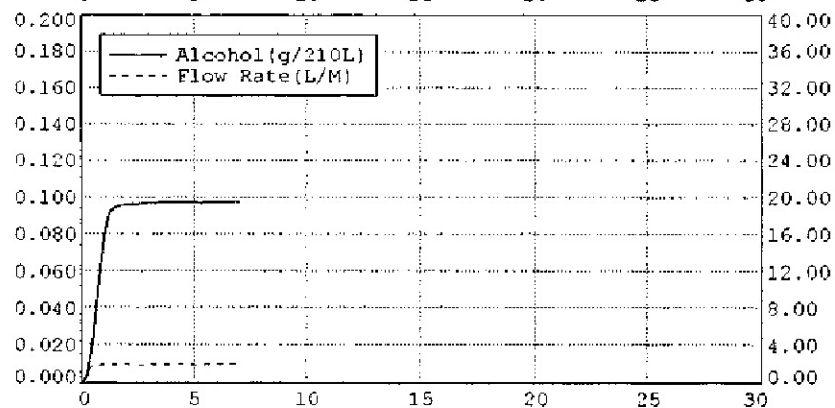
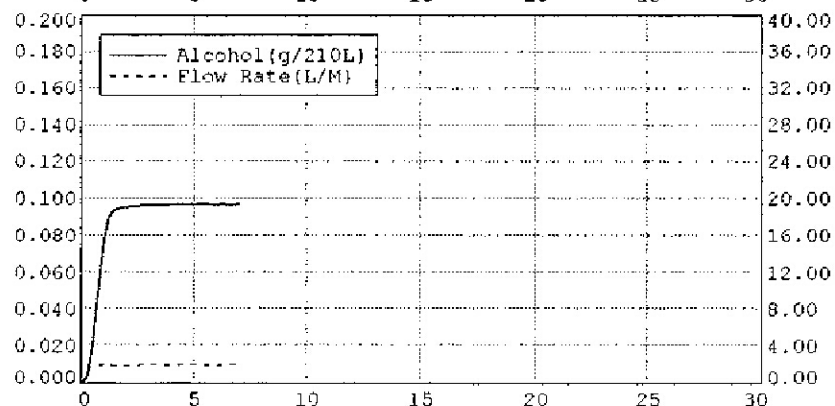
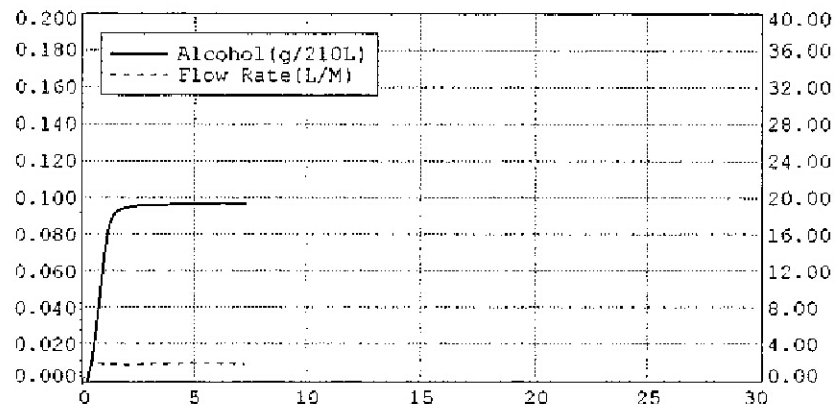
Date: 08/22/2014
Time: 11:50:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.97: 0.100
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.098	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.097	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.098	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.097	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.098	11:56
BLANK TEST	0.000	11:56

Average = 0.0980
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dnt: 100683

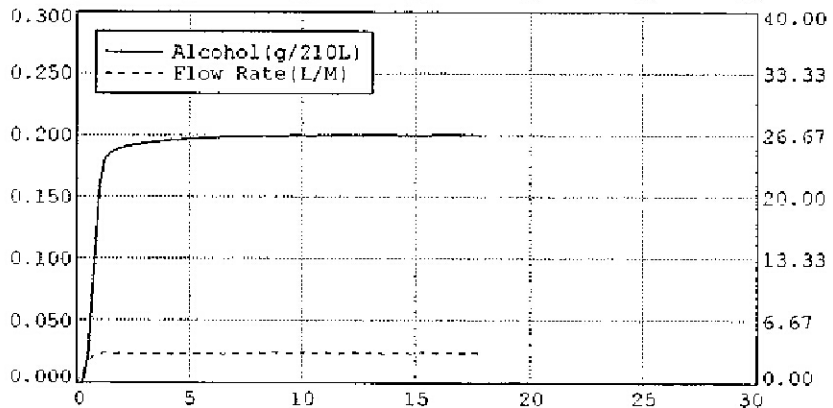
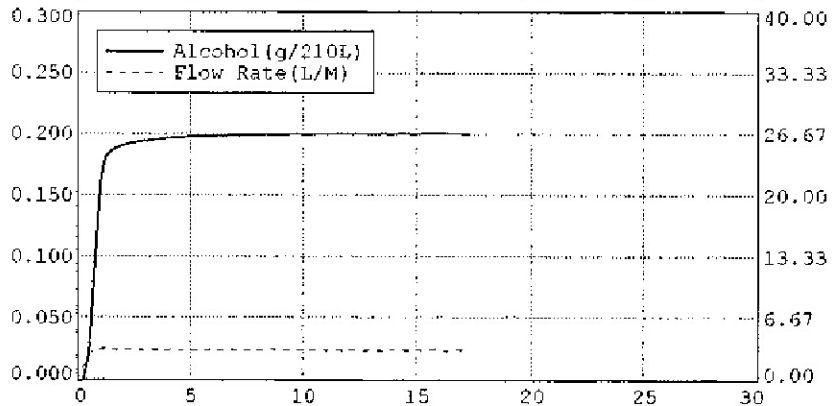
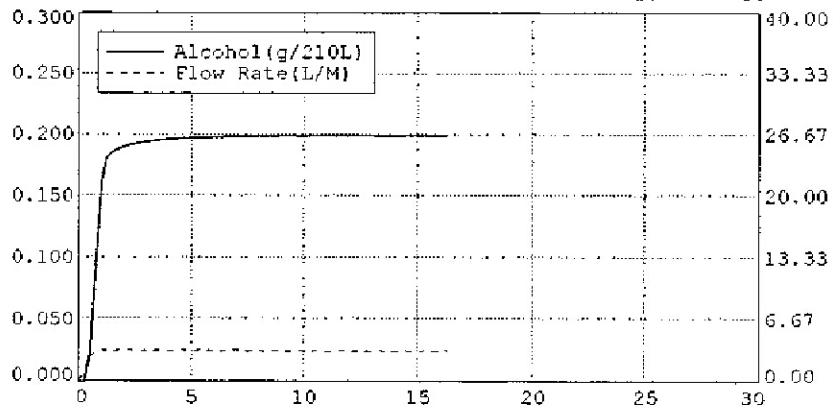
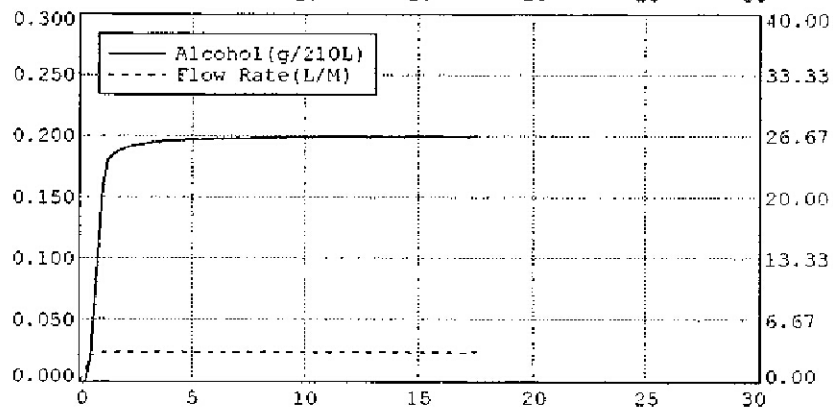
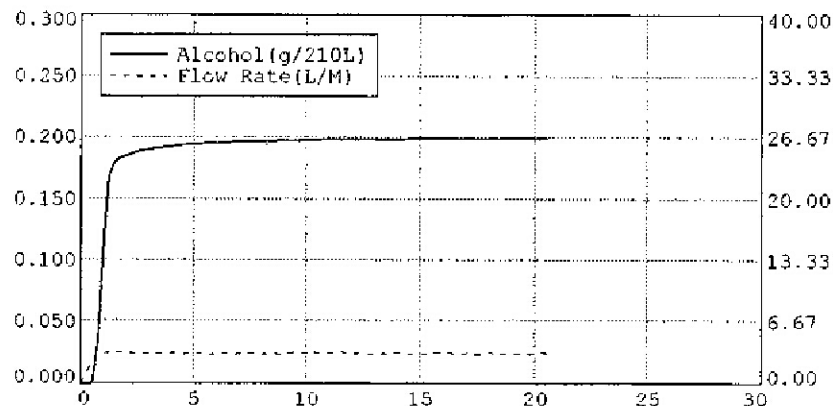
Date: 08/22/2014
Time: 11:57:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 14130
EXPIRATION: 05/12/2016

BLANK TEST	0.000	11:59
INTERNAL STANDARD	VERIFIED	11:59
EXTERNAL STANDARD	0.199	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.200	12:01
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.199	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.200	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.201	12:04
BLANK TEST	0.000	12:05

Average = 0.2004
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATA MASTER dmt: 100683

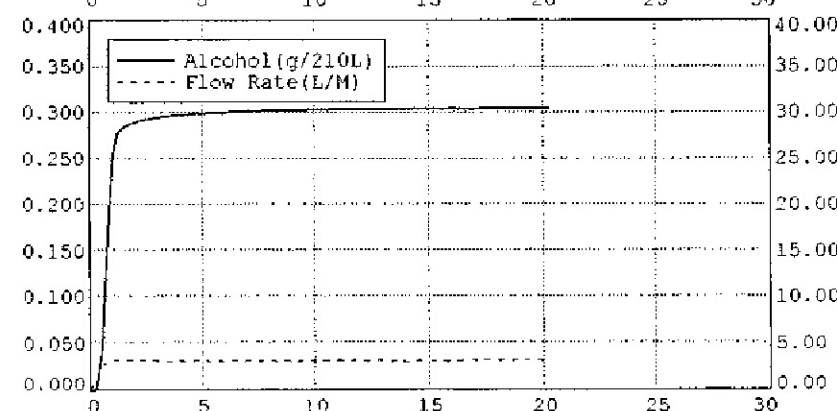
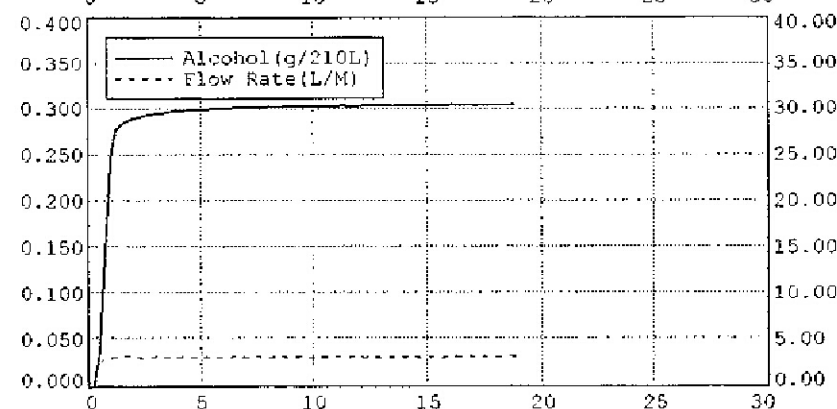
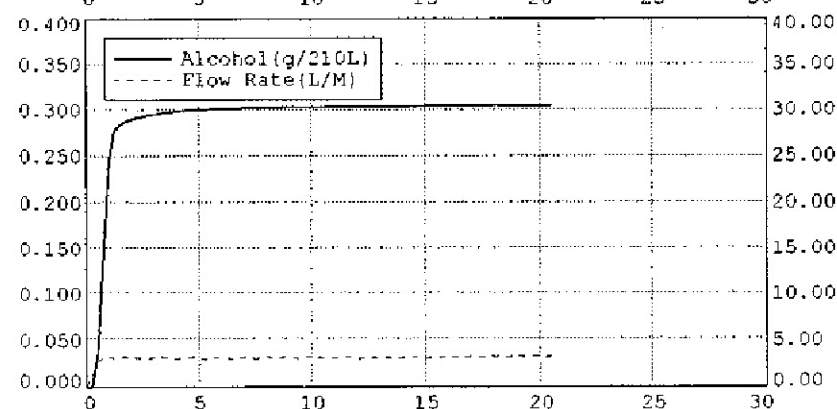
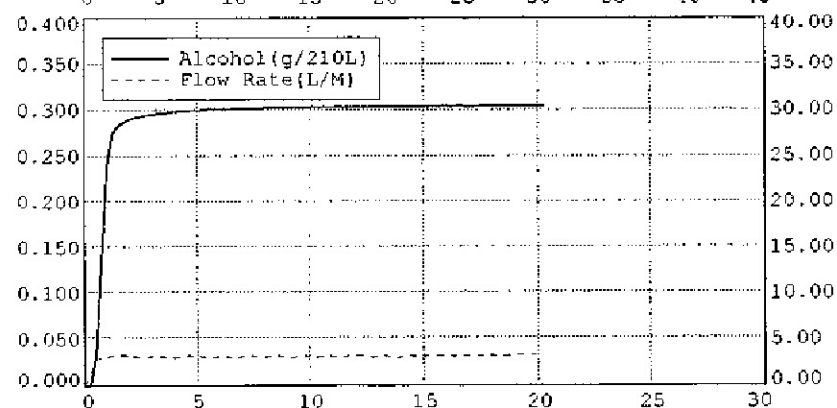
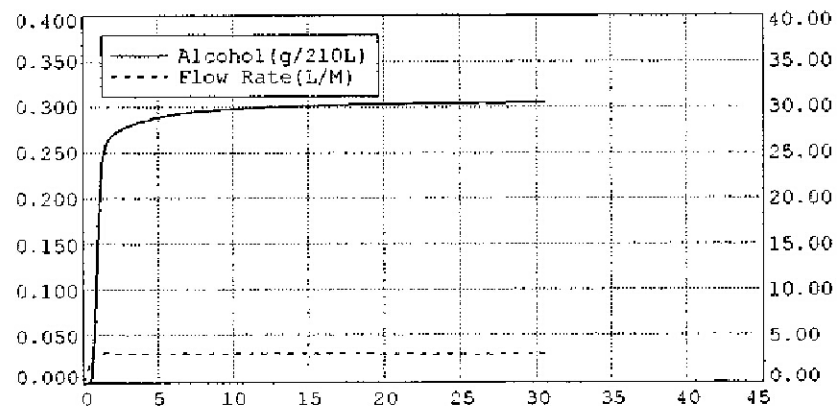
Date: 08/22/2014
 Time: 14:50:32

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.305	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.304	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.304	14:55
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.304	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.304	14:57
BLANK TEST	0.000	14:58

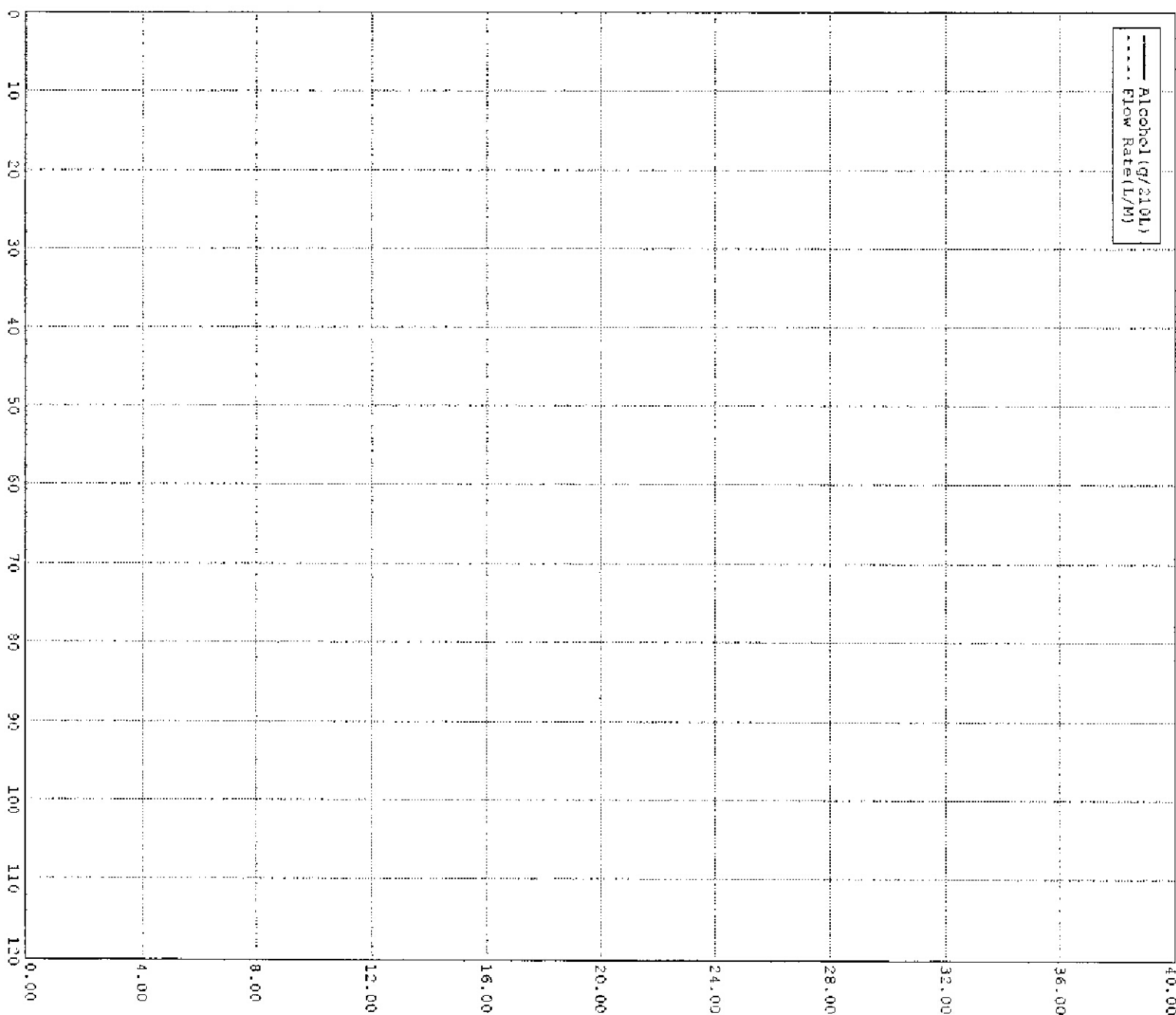
Average = 0.3047
 Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100683Date: 08/22/2014
Time: 15:30:12SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 14-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:31
BLANK TEST	0.000	15:31
INTERNAL STANDARD	VERIFIED	15:31
EXTERNAL STANDARD	0.080	15:32
BLANK TEST	0.000	15:33
SUBJECT SAMPLE	INCOMPLETE	15:35



SUBJECT TEST

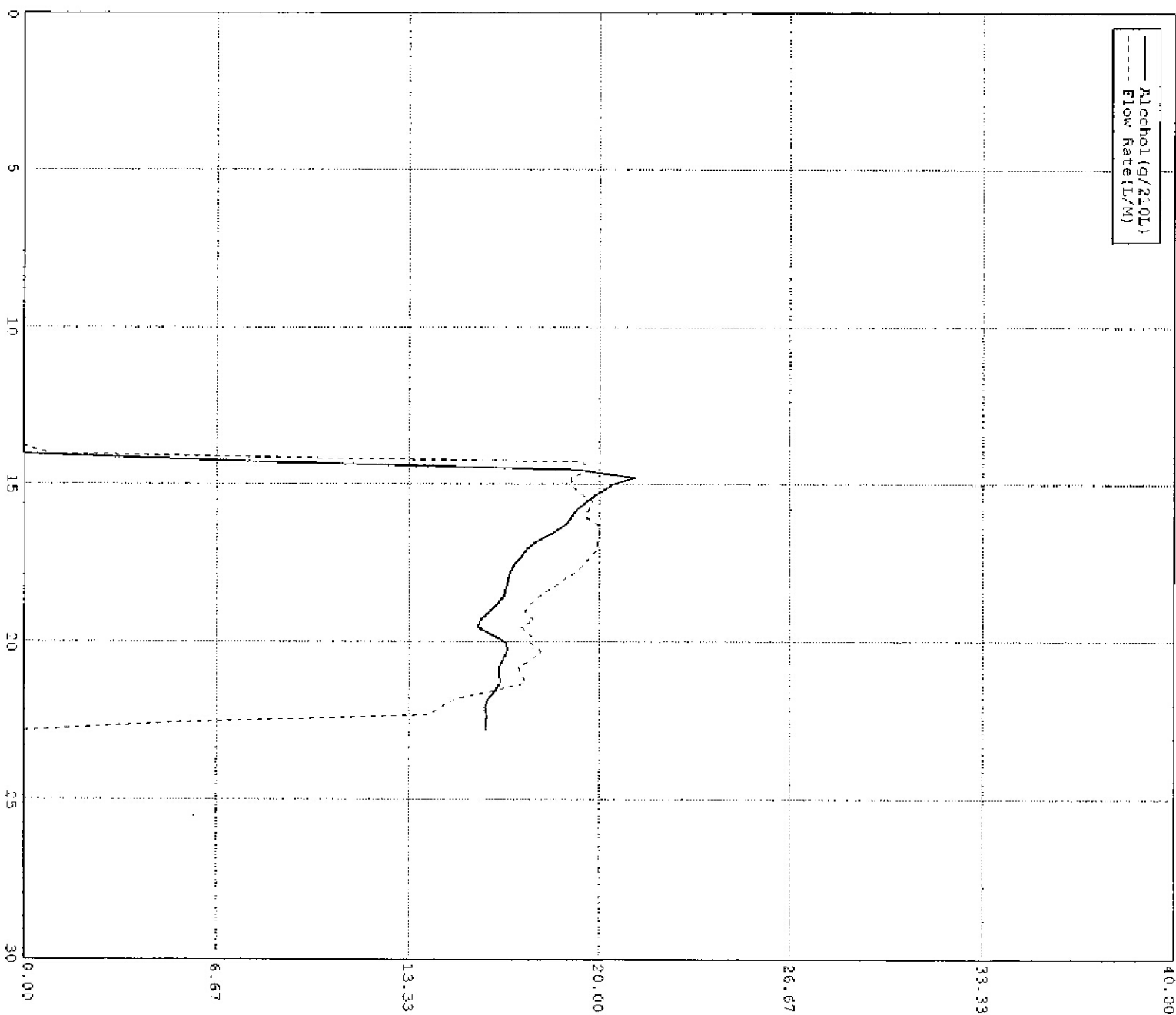
Alaska Department of Public Safety
DATAMASTER dnt: 100683Date: 08/22/2014
Time: 15:37:16

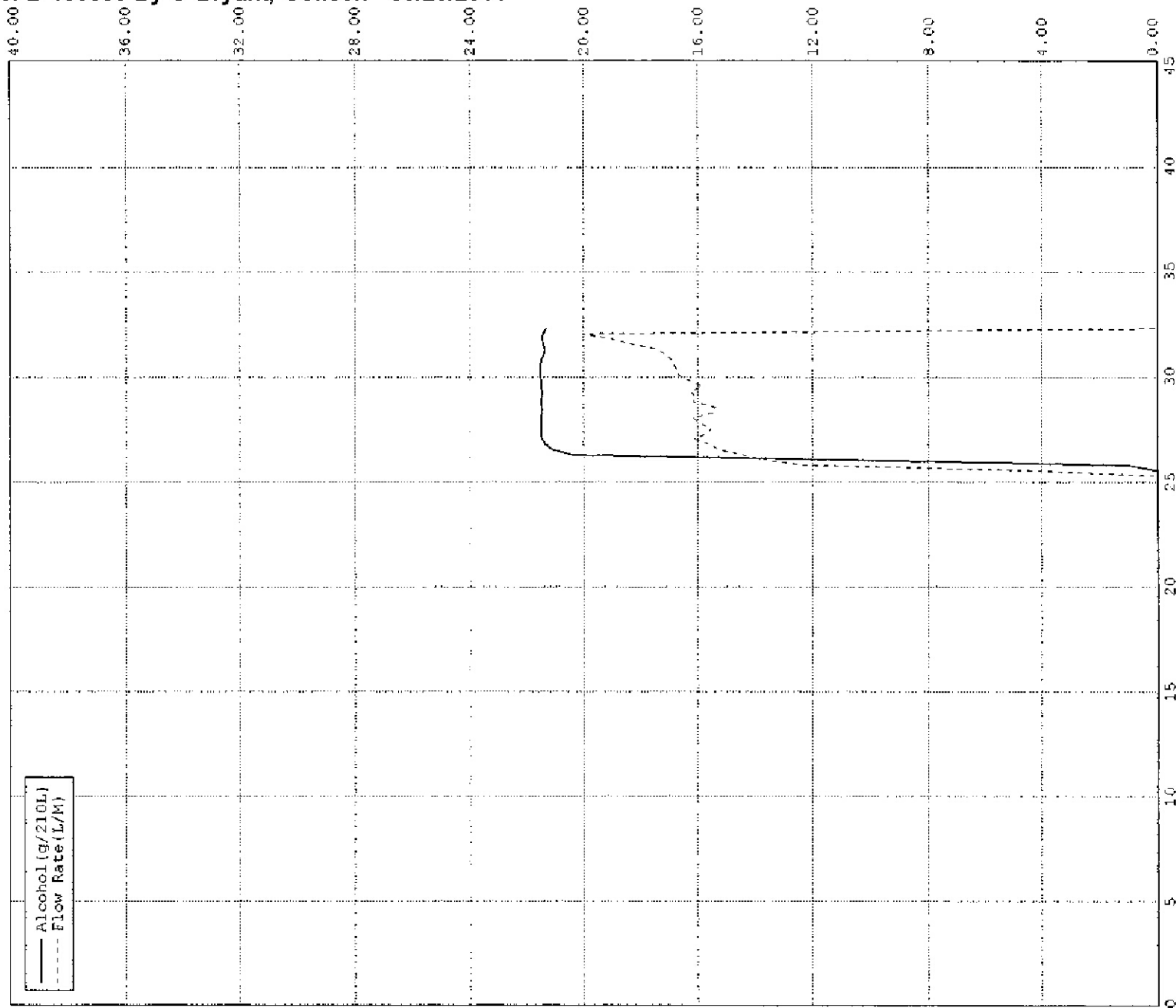
SUBJECT NAME:

TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 14-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 1313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:44
BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.080	15:44
BLANK TEST	0.000	15:45
SUBJECT SAMPLE	INVALID	15:46

CMB





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 08/22/2014
 Time: 15:23:18

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

DEPT/AGENCY:

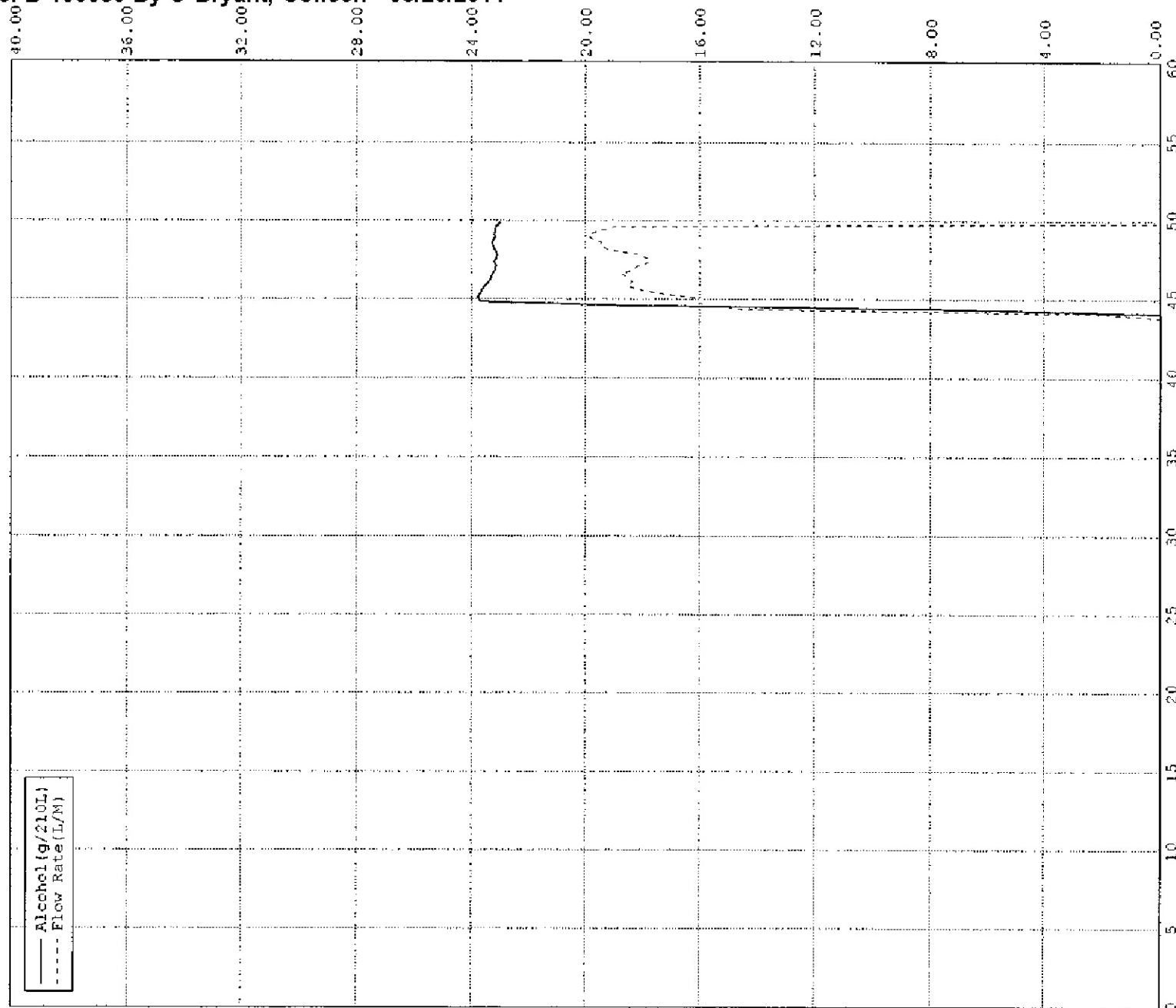
AAA1
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:24
BLANK TEST	0.000	15:24
INTERNAL STANDARD	VERIFIED	15:24
Xq = 0.103 (0.25%)	0.080	15:24
EXTERNAL STANDARD	X[1] = 0.0802 (-0.0009)	(0.0033)
BLANK TEST	0.000	15:25
SUBJECT SAMPLE	INTERFERENCE	15:26
X[1] = 0.1069 (-0.0166)	(0.0016)	

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100683

Date: 08/22/2014
 Time: 15:13:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:

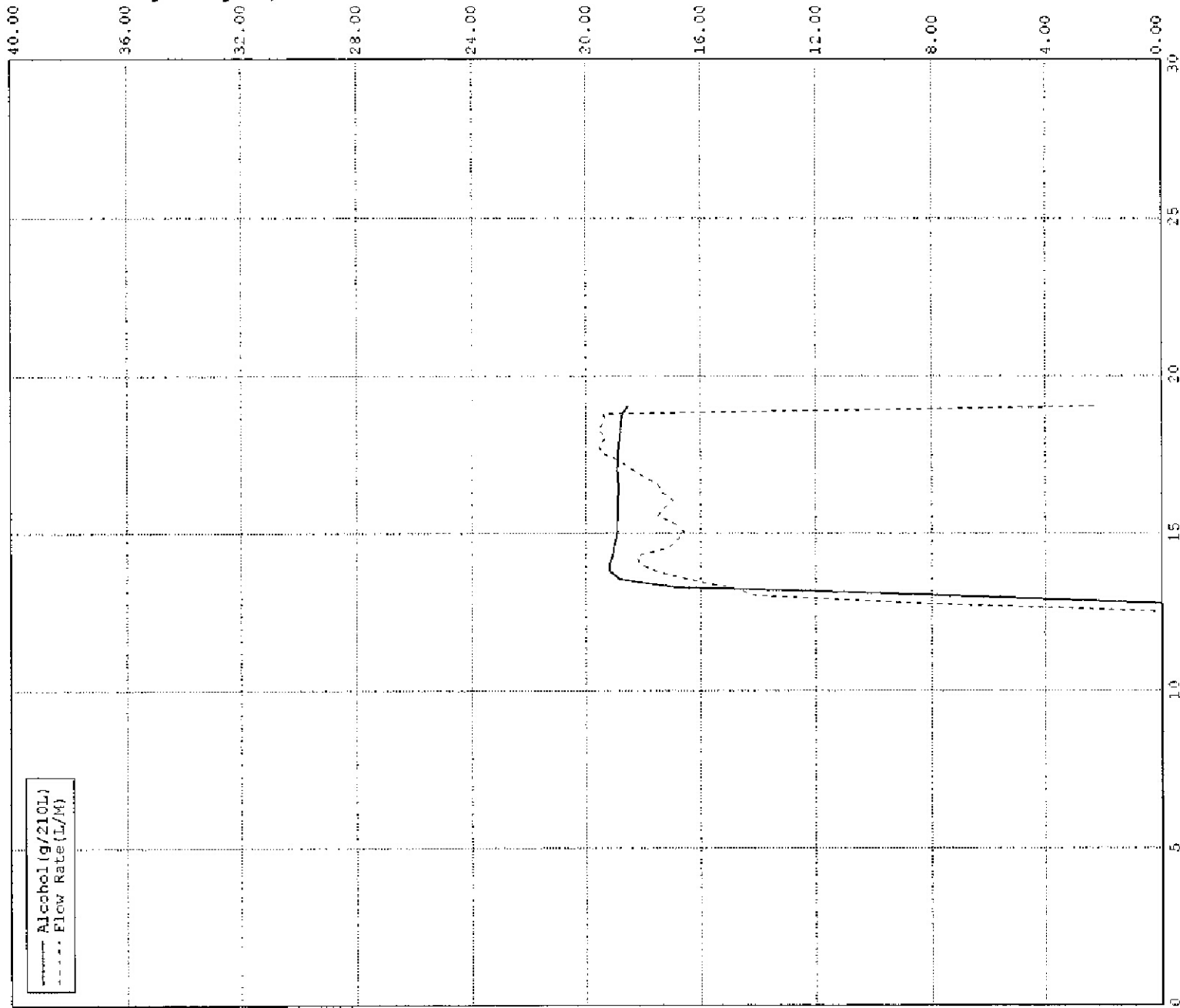
AAA1
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:14
BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
Xq = 0.103 (0.34%)		
EXTERNAL STANDARD	0.080	15:14
X[1] = 0.0906 (-0.0011) (0.0024)		
BLANK TEST	0.000	15:15
SUBJECT SAMPLE	INTERFERENCE	15:16
X[1] = 0.1149 (-0.0284) (0.0012)		

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100683

Date: 08/22/2014
Time: 15:03:23

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

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

EXTERNAL STANDARD INFORMATION

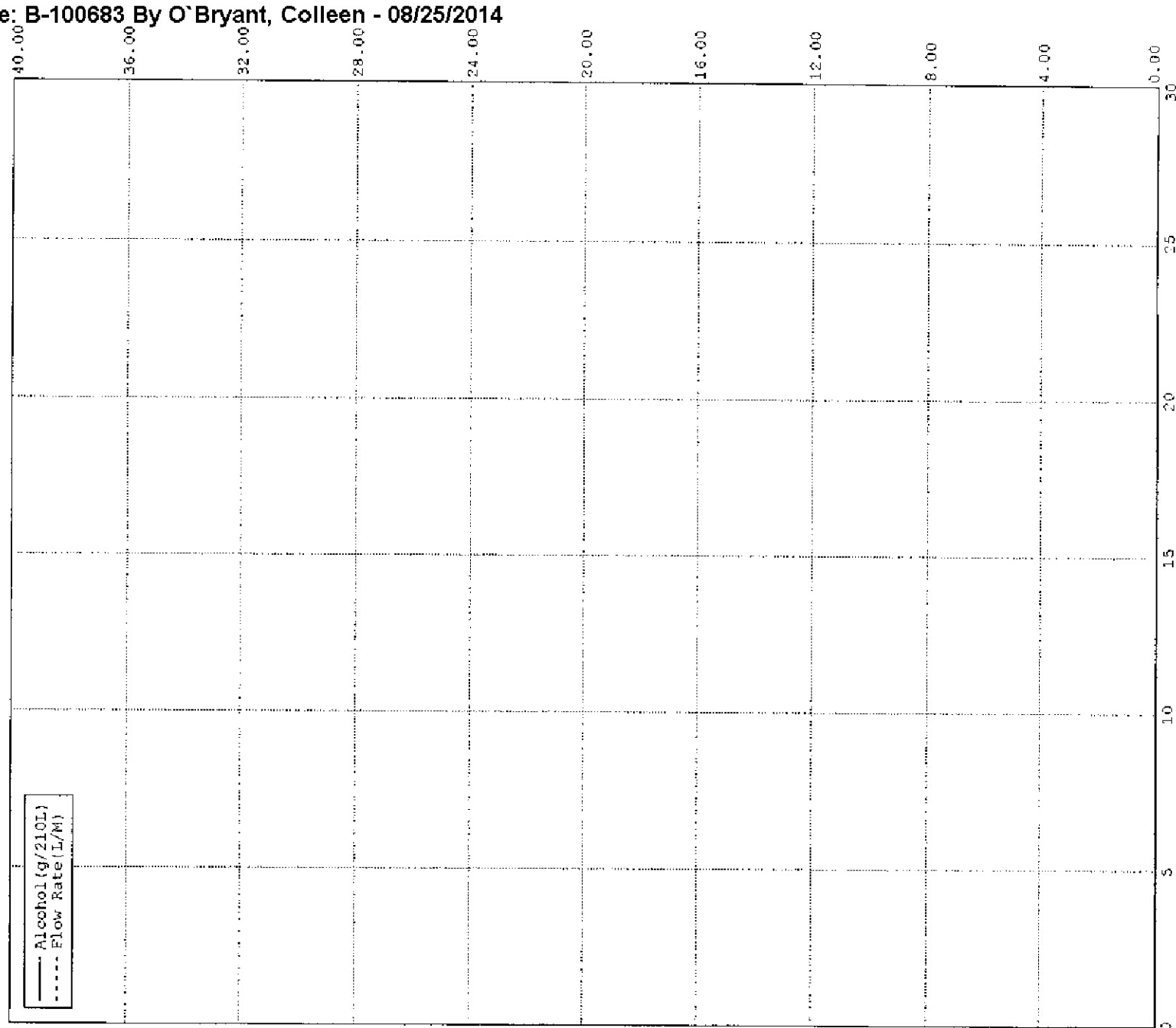
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
$X_q = 0.103$ (0.42%)		
EXTERNAL STANDARD	0.080	15:04
$X[1] = 0.0801$ (-0.0013) (0.0024)		
BLANK TEST	0.000	15:05
SUBJECT SAMPLE (Vol=1.81L)	0.093	15:06
$X[1] = 0.0935$ (0.0001) (0.0001)		
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.080	15:07
$X[1] = 0.0804$ (-0.0009) (0.0016)		
BLANK TEST	0.000	15:08

Filter 2 avg = -0.0011

Filter 3 avg = 0.0024

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 08/22/2014
 Time: 15:49:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 15:51
 BLANK TEST 0.000 15:51
 INTERNAL STANDARD VERIFIED 15:51
 EXTERNAL STANDARD 0.079 15:51
 BLANK TEST 0.000 15:52

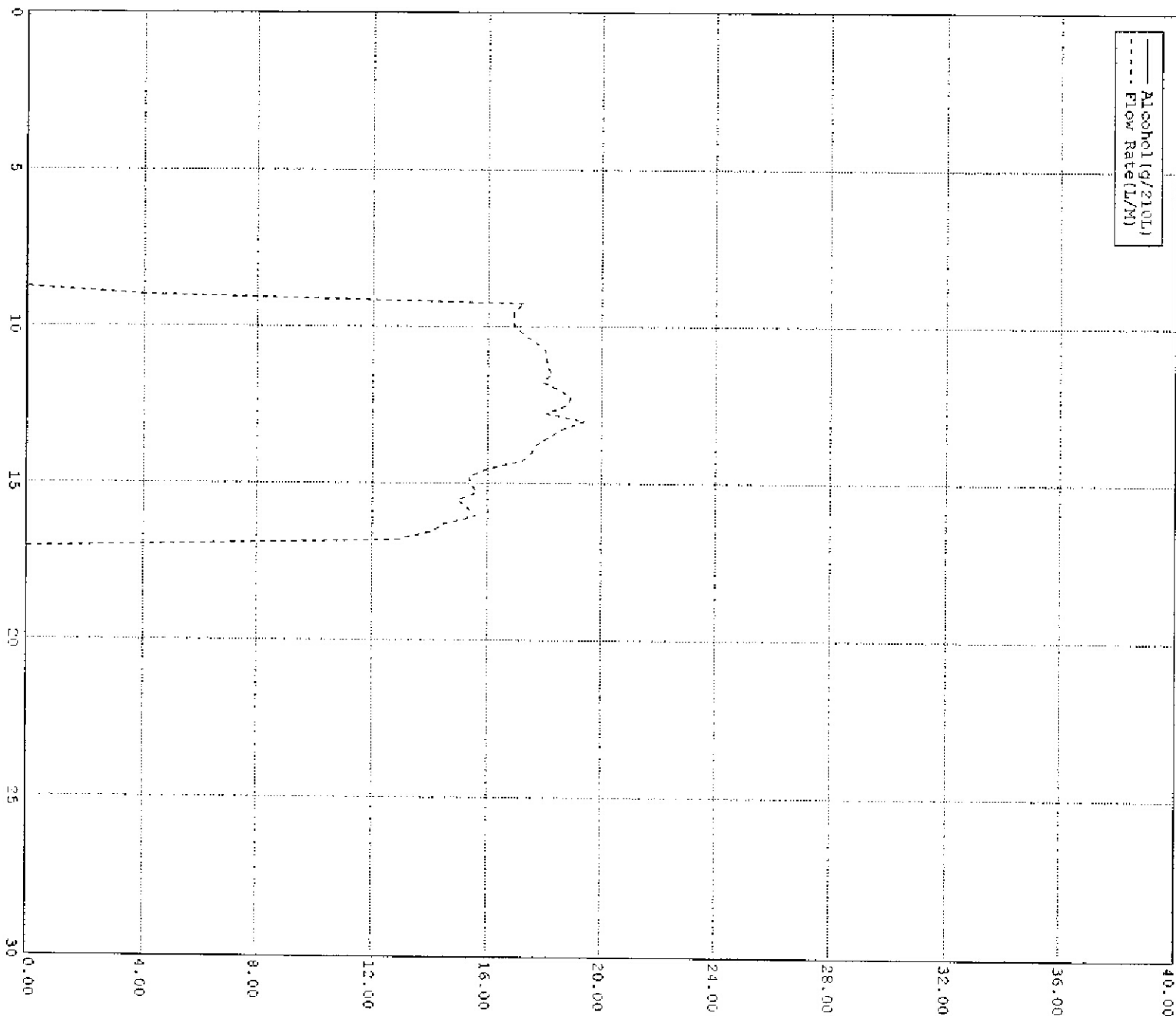
RFI DETECTED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683Date: 08/25/2014
Time: 06:34:34SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 14-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	06:35
BLANK TEST	0.000	06:35
INTERNAL STANDARD	VERIFIED	06:36
EXTERNAL STANDARD	0.078	06:36
BLANK TEST	0.000	06:37
SUBJECT SAMPLE	0.000	06:37
BLANK TEST	0.000	06:38
EXTERNAL STANDARD	0.078	06:38
BLANK TEST	0.000	06:39

CB



Final page for report

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12/2/2014