

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100352 Analyst C. O'Bryant Start Date 9/30/15

1. Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$ Yes

1. 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)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/17

ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17

iii. 0.080g/210L Mnf ILMO Lot 01315080A2 Exp 2/5/17

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

1. Simulator S/N DR4162 Date Calibrated 1/19/15

vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16

1. Simulator S/N DR6267 Date Calibrated 1/20/15

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4163 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N SD1176 Date Calibrated 1/20/15

iii. Negative Control - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI

6. Verify stylus is calibrated

9. Verification of Calibration

7. Reset Options

10. Non-Drinking Subject Test (attached)

8. Clear Memory

11. Upload

13. Remove tank prior to shut down

End Date 9/30/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 09:23:57

VERSIONS
DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.77 V PASSED
(1.03 V - 2.41 V)
Cooler Voltage = 1.70 V PASSED
(1.03 V - 2.41 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.781 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.096 0.46% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 9:37 AM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 45.7°C

Current Barometer 29.4 in
Volume (Ltr) 1.52

Settings
Lamp: 1.77 V
Bias: 80 V
Cooler: 1.70 V
Chopper: 523 Hz

Voltages (V)
Flow: 1.04 V
Detector: -0.008 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/15/2015
Time: 09:24:17

OPERATOR NAME:
NPAS TECH
CERTIFICATE #: 34C, G12921, 34.0C, 15040

Ca = 0.1010
CAL = 0.966346 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0042 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0952 0.0500 <= Xq < 0.2000
a21 = 1.146264 1.050 <= a21 < 1.300
a31 = 0.447190 0.300 <= a31 < 0.800

G12921 34.0 °C
15040
2-16-16

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100352

Date: 09/30/2015

Time: 10:02:39

SUBJECT NAME:

TEST TEST

LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

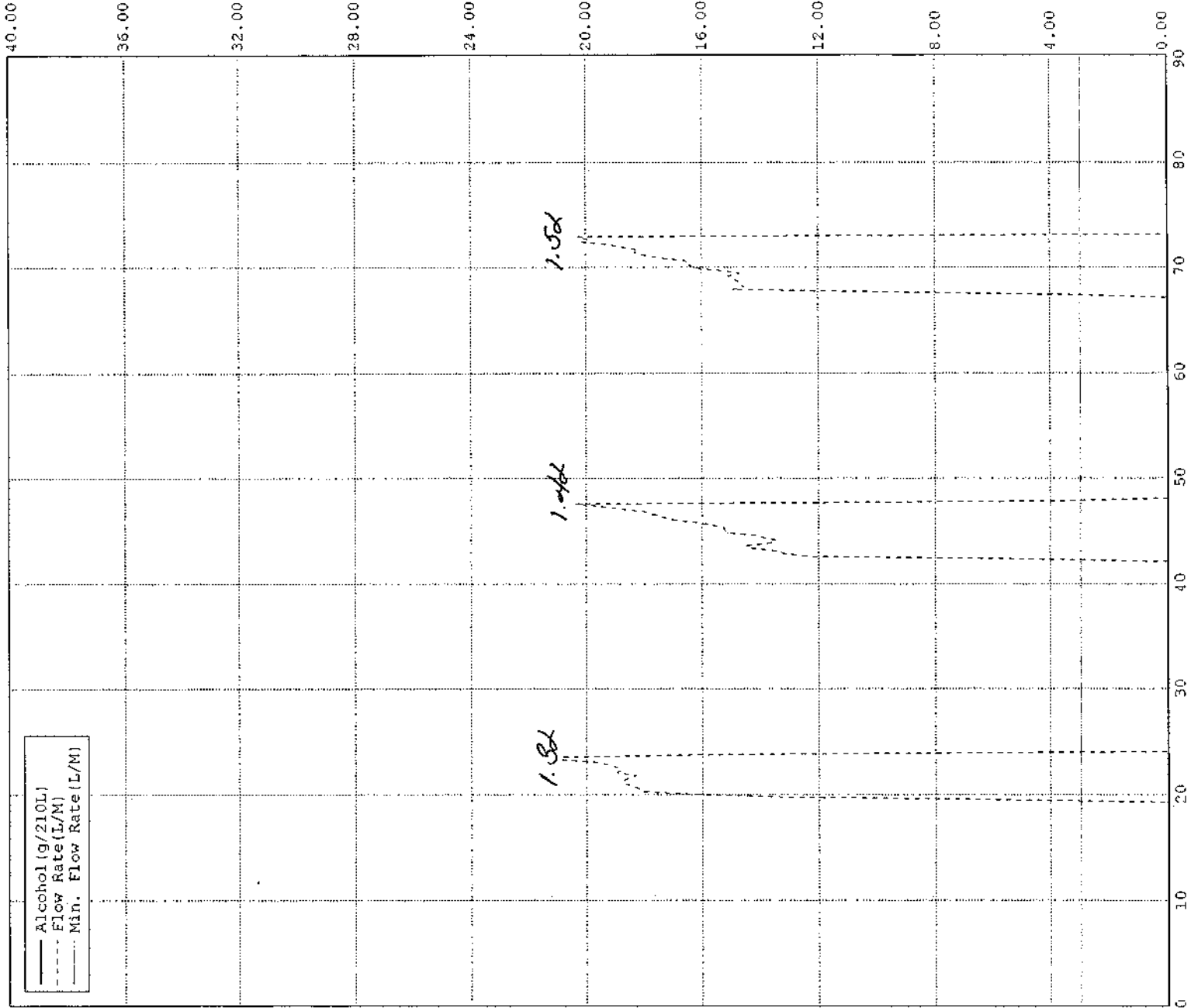
TARGET AT 29.46: 0.079

LOT #: 01315080A2

EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK

BLANK TEST	0.000	PASSED	10:03
INTERNAL STANDARD	0.078	VERIFIED	10:03
EXTERNAL STANDARD	0.000		10:04
BLANK TEST	0.000		10:05
SUBJECT SAMPLE (Vol=1.53L)	0.000		10:06
BLANK TEST	0.000		10:07
EXTERNAL STANDARD	0.078		10:07
BLANK TEST	0.000		10:08



LINEARITY CHECK

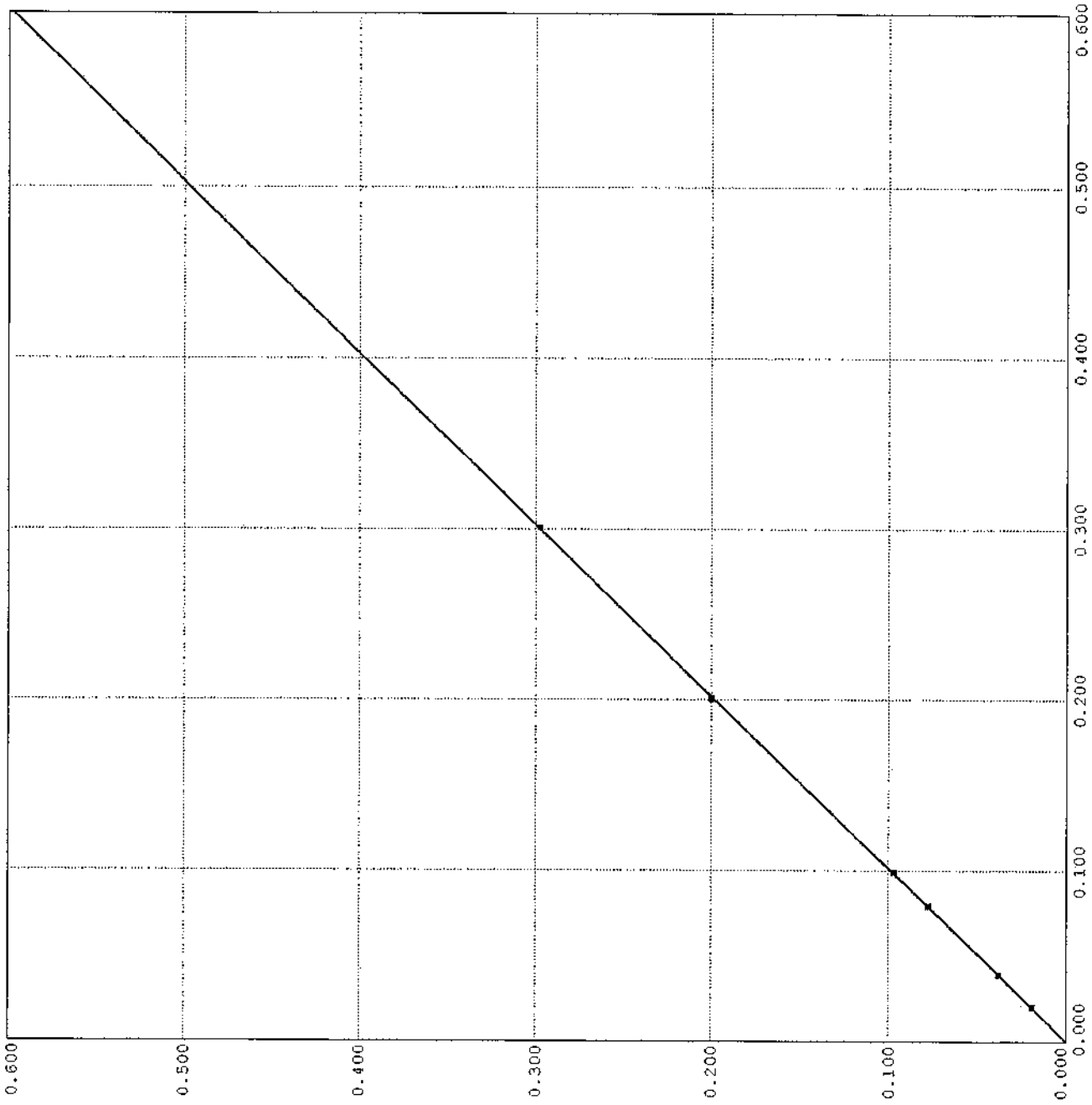
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/30/2015
 Time: 10:19:25

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.079	0.0786	0.0005
0.099	0.0980	0.0000
0.200	0.2008	0.0004
0.300	0.2982	0.0008

SLOPE = 0.996243
 R² = 0.999943



CAS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

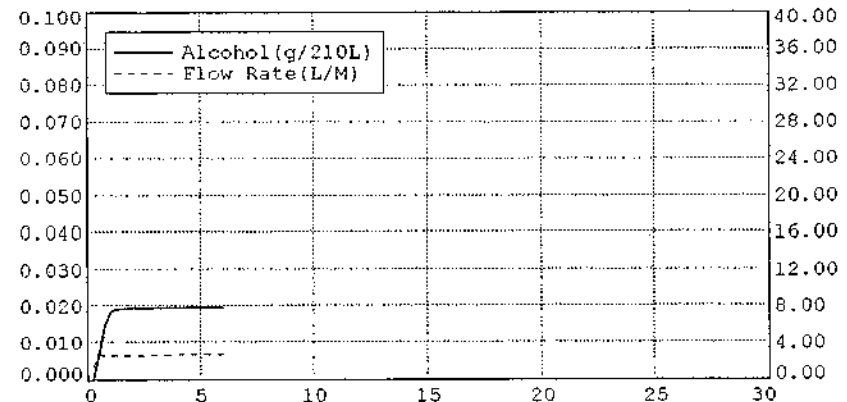
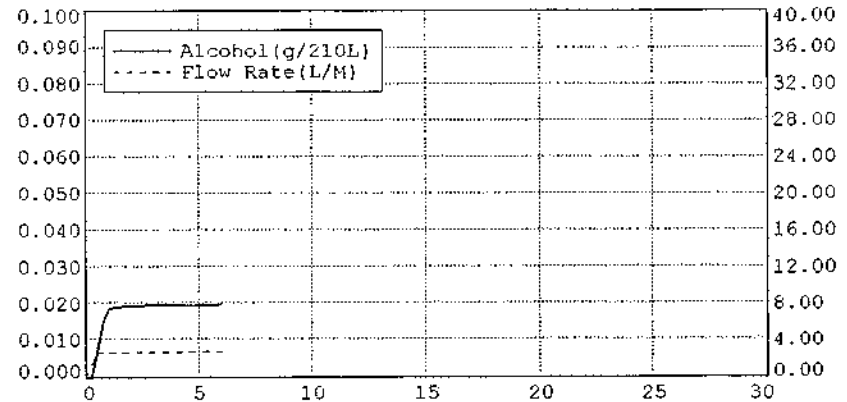
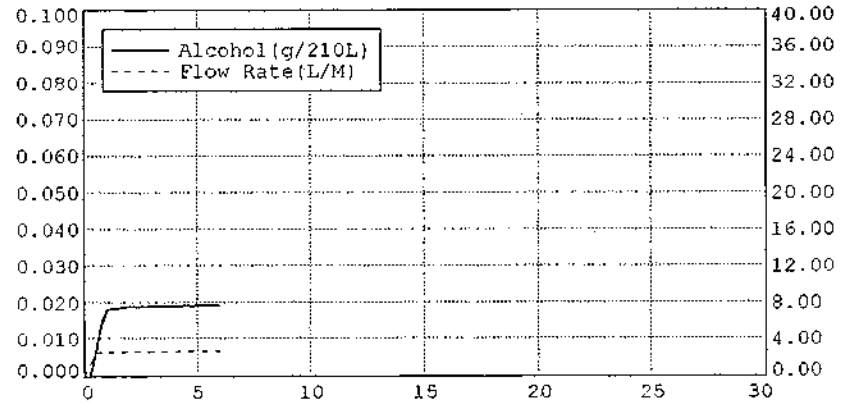
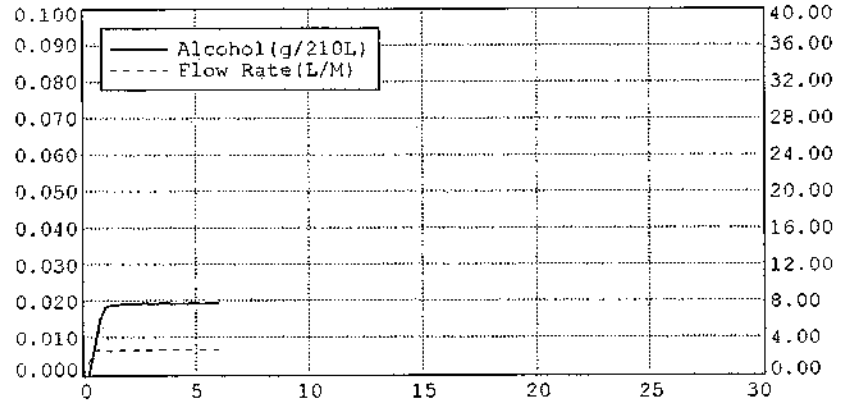
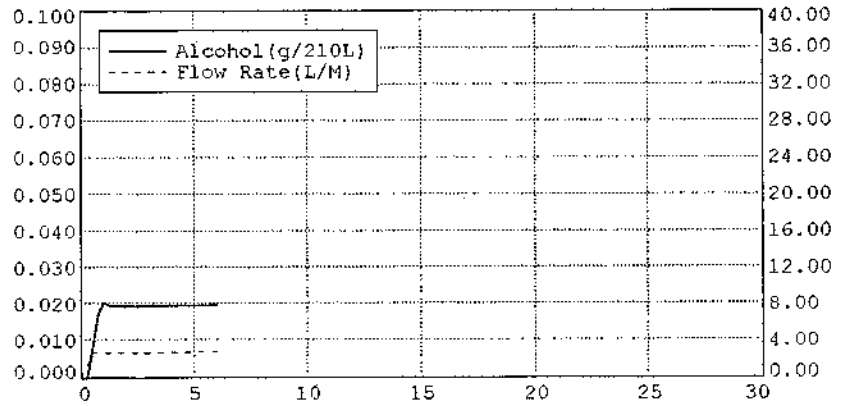
Date: 09/30/2015
 Time: 10:19:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.48: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1043 psi

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
EXTERNAL STANDARD	0.020	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.020	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.020	10:30
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.020	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.020	10:32
BLANK TEST	0.000	10:33

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

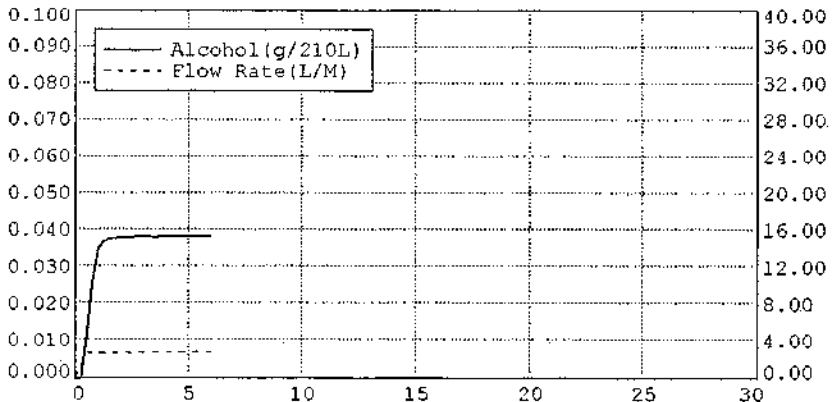
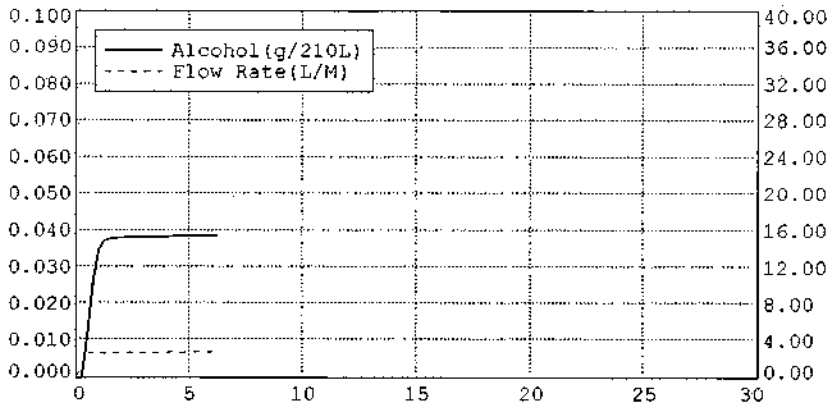
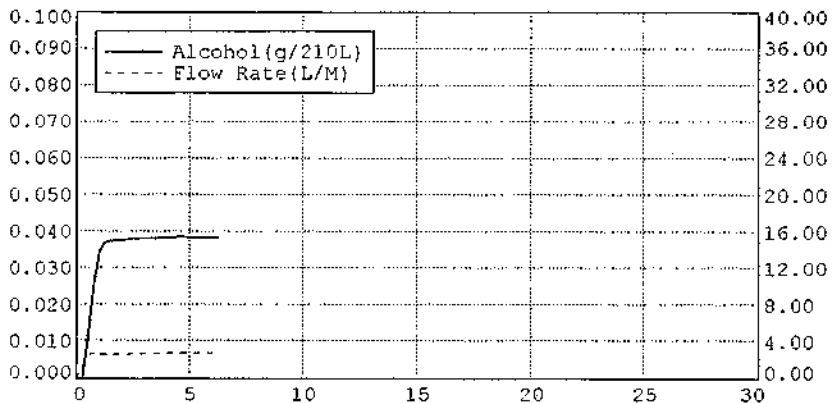
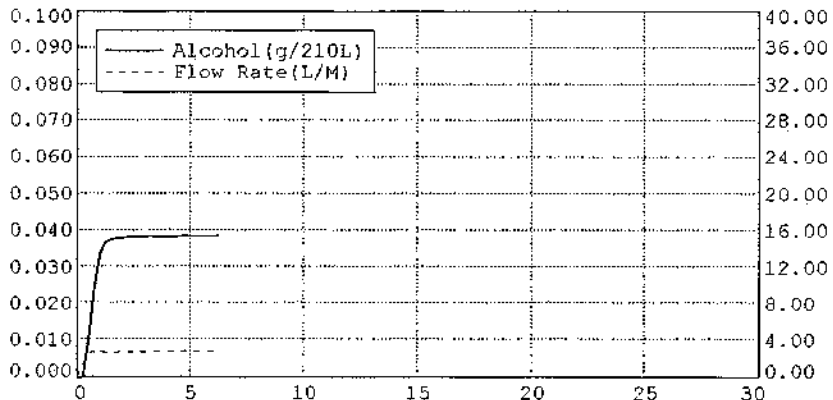
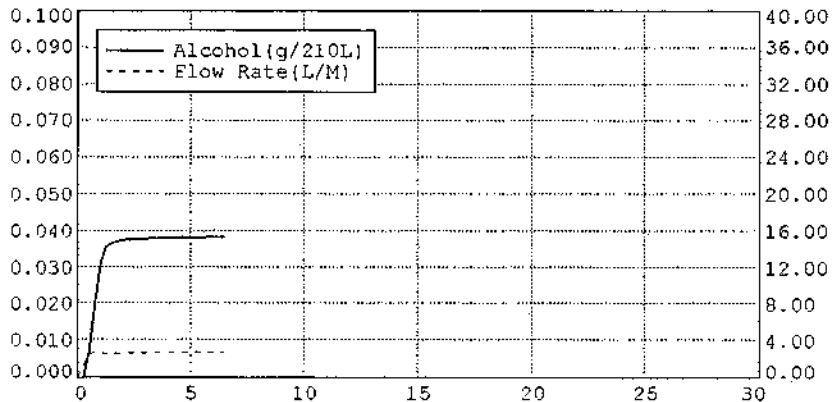
Date: 09/30/2015
 Time: 10:35:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.49: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1093 psi

BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.039	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.039	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.039	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.039	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.039	10:41
BLANK TEST	0.000	10:42

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100352

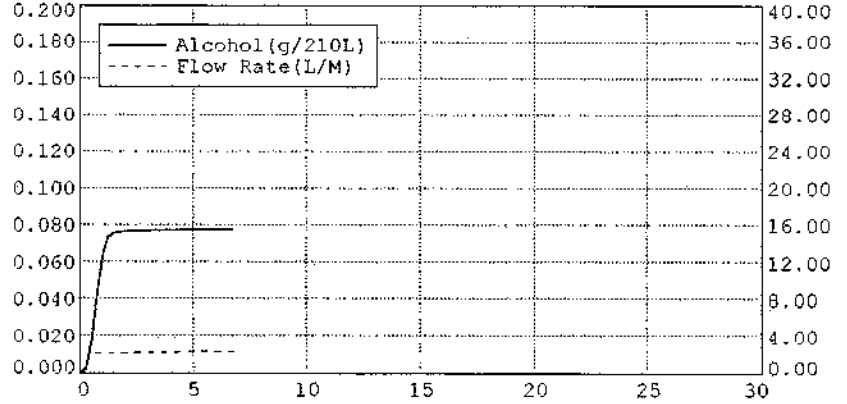
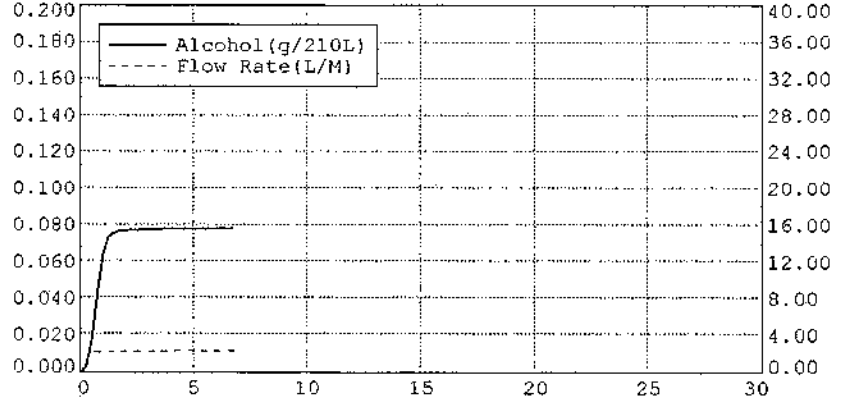
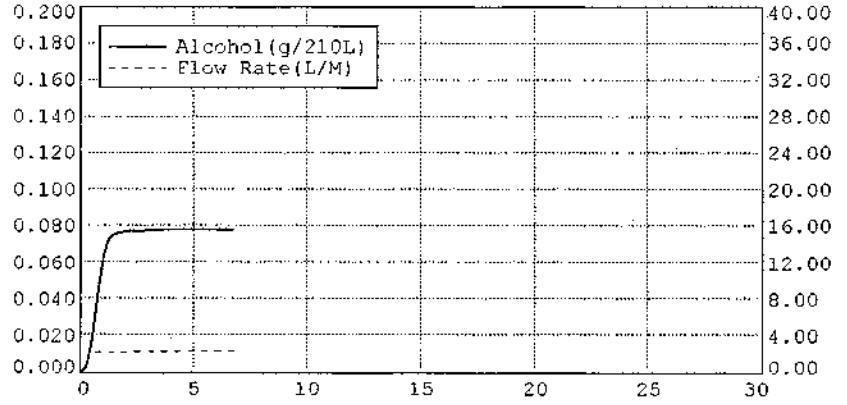
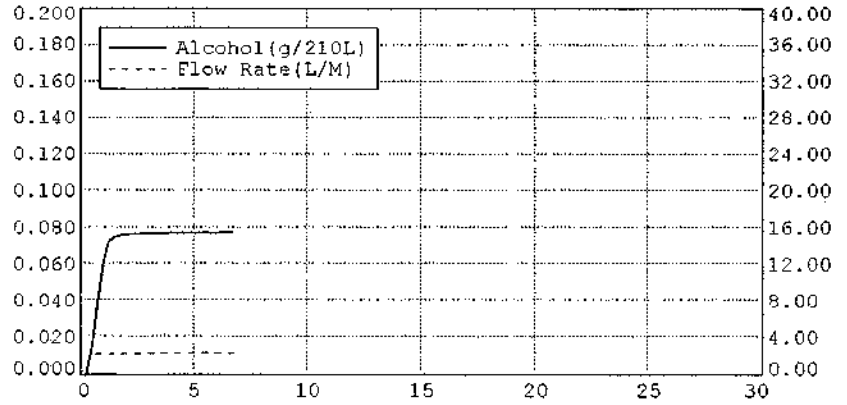
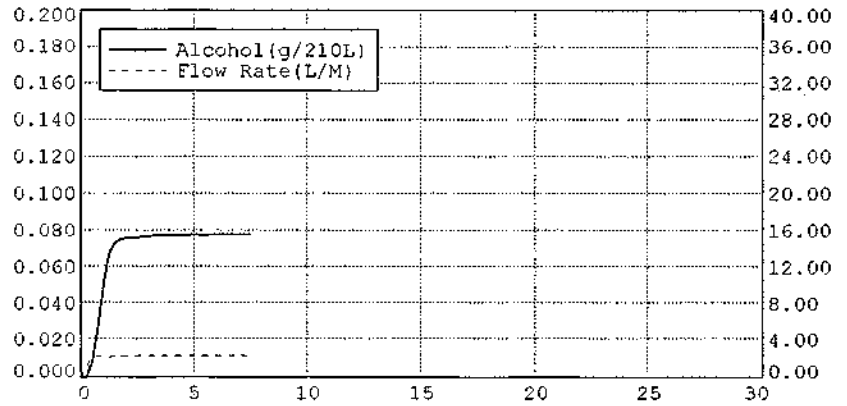
Date: 09/30/2015
Time: 10:42:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.49: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 313 psi

BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.079	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.078	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.079	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.078	10:49
BLANK TEST	0.000	10:50

Average = 0.0786
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

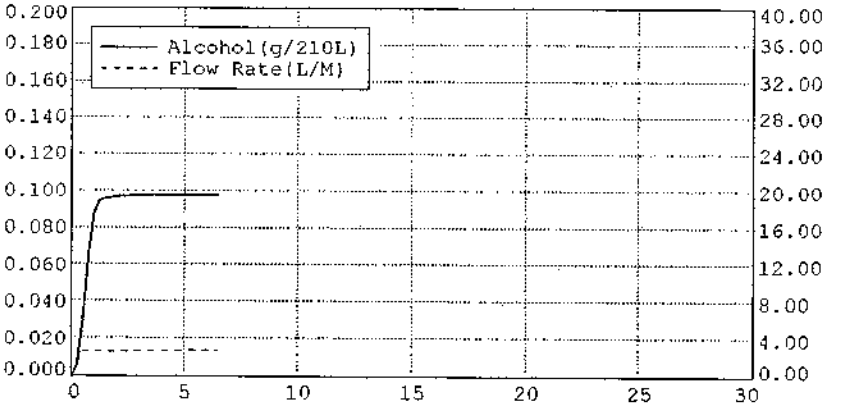
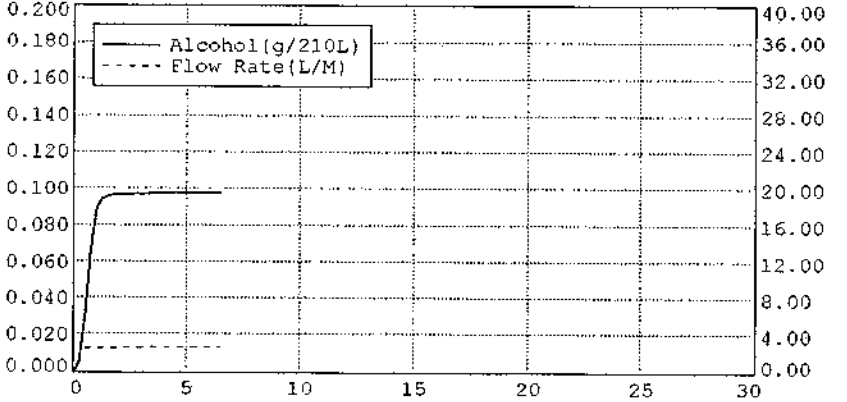
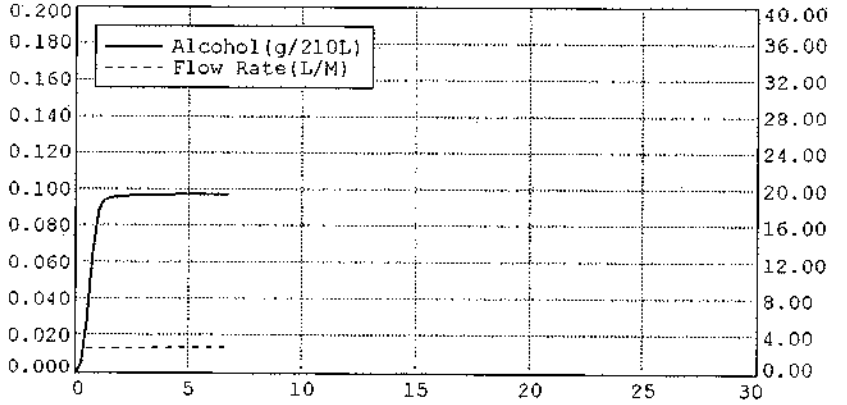
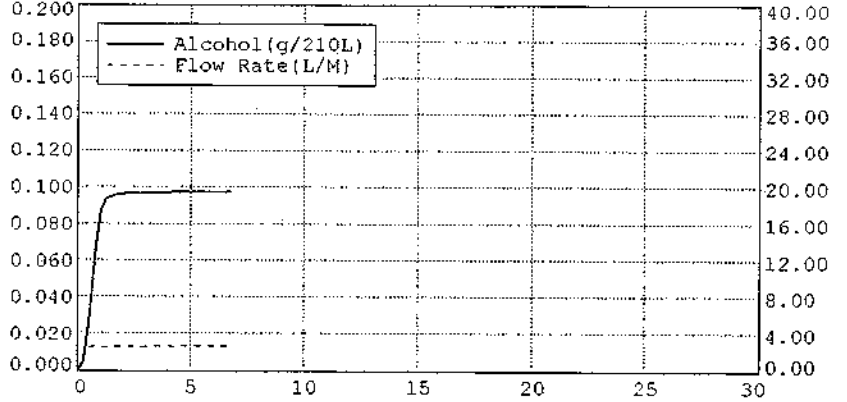
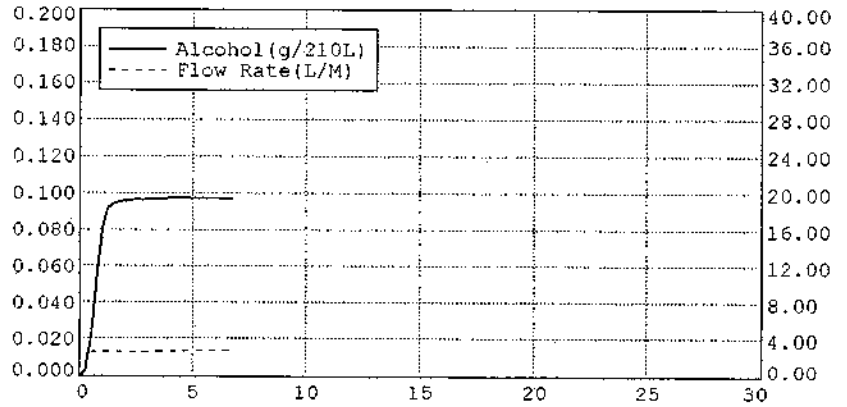
Date: 09/30/2015
 Time: 10:50:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.51: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1134 psi

BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.098	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.098	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.098	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.098	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.098	10:56
BLANK TEST	0.000	10:57

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

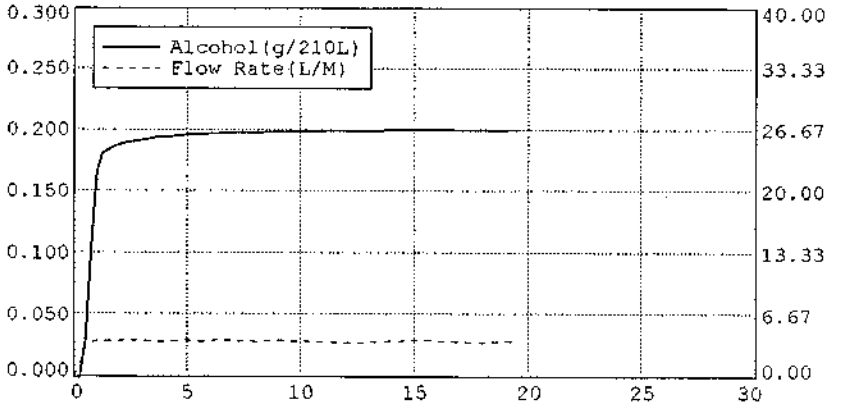
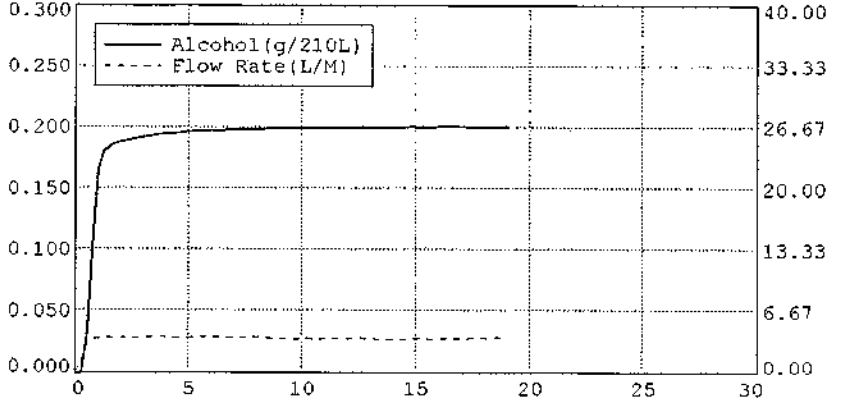
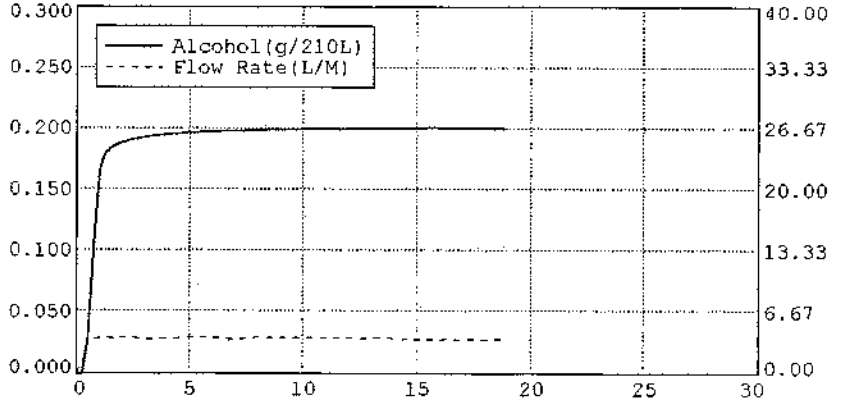
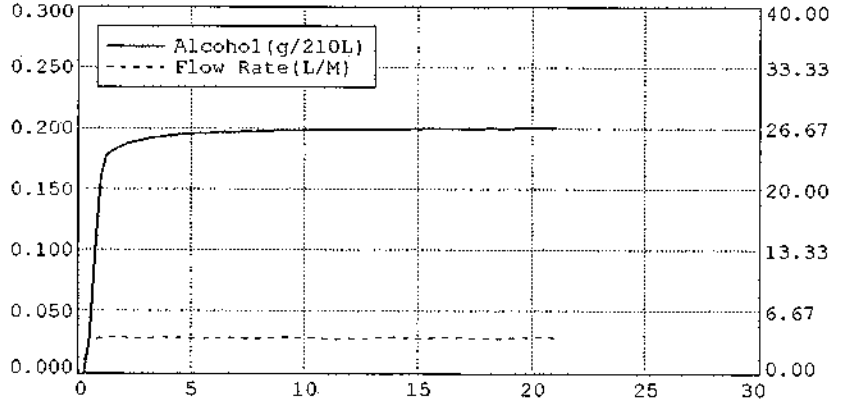
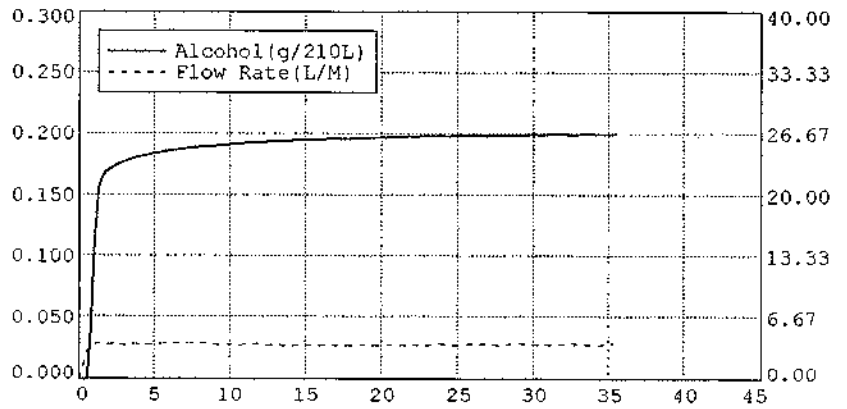
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/30/2015
 Time: 13:11:00

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 15130
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.200	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.201	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.201	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.201	13:17
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.201	13:18
BLANK TEST	0.000	13:19

Average = 0.2008
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

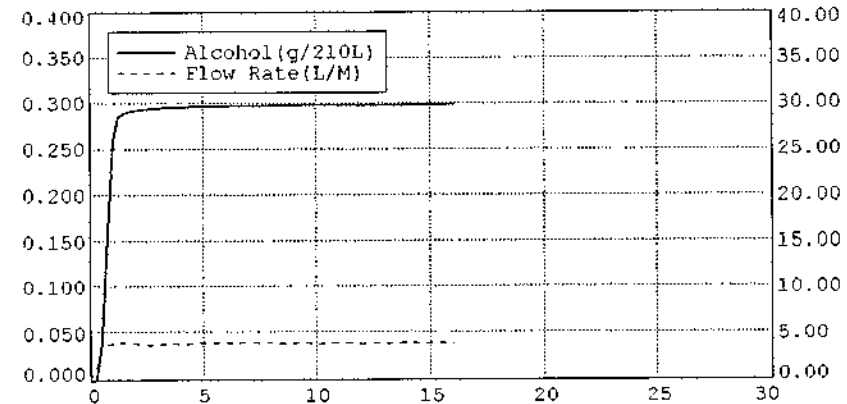
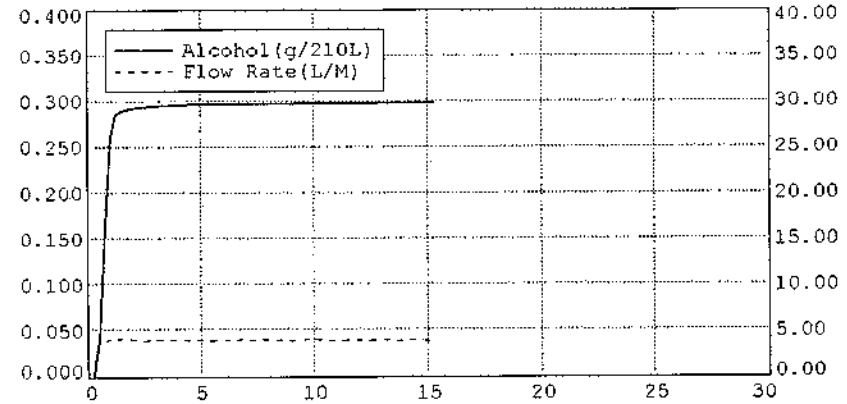
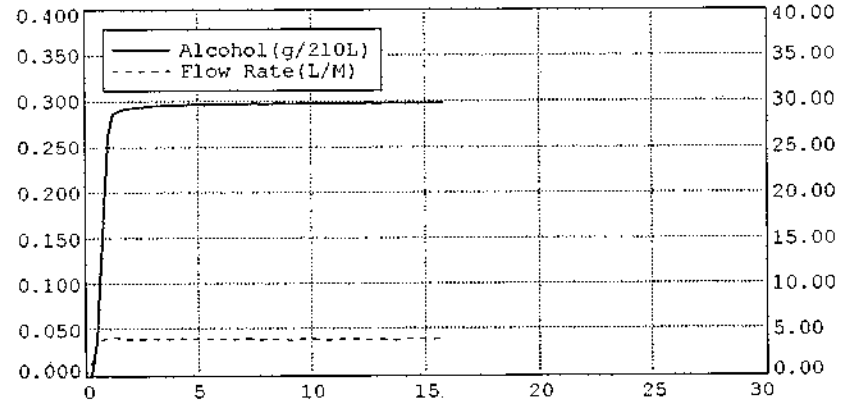
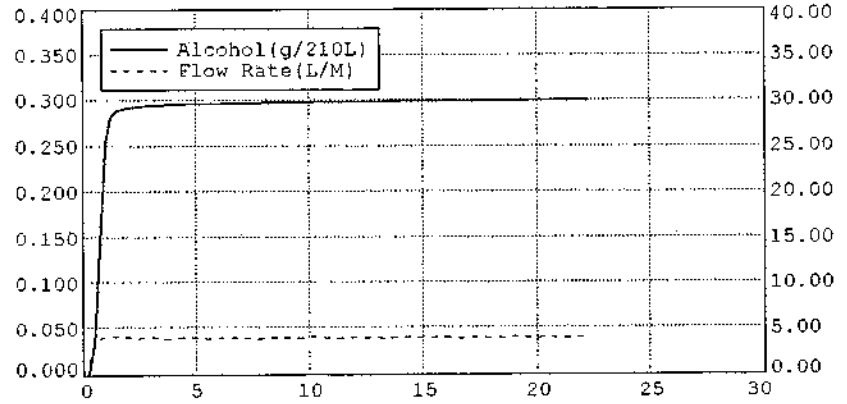
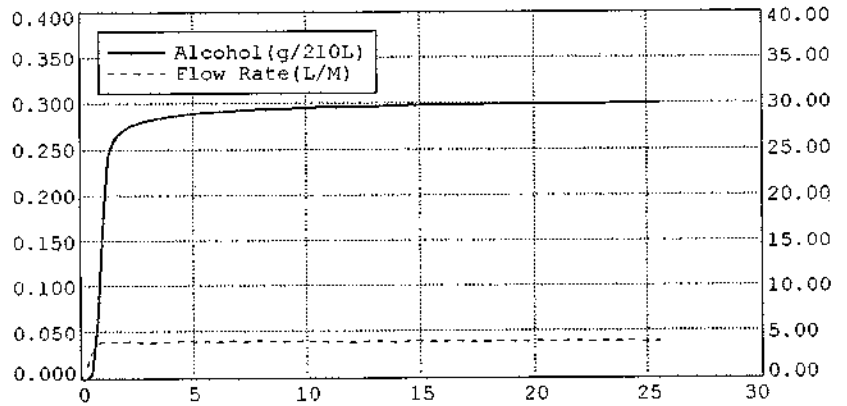
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 09/30/2015
 Time: 13:21:28

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.299	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.299	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.298	13:26
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.297	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.298	13:28
BLANK TEST	0.000	13:29

Average = 0.2982
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100352

Date: 09/30/2015

Time: 13:50:05

SUBJECT NAME:

TEST TEST

LICENSE #: INCOMPLETE

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.64: 0.079

LOT #: 01315080A2

EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

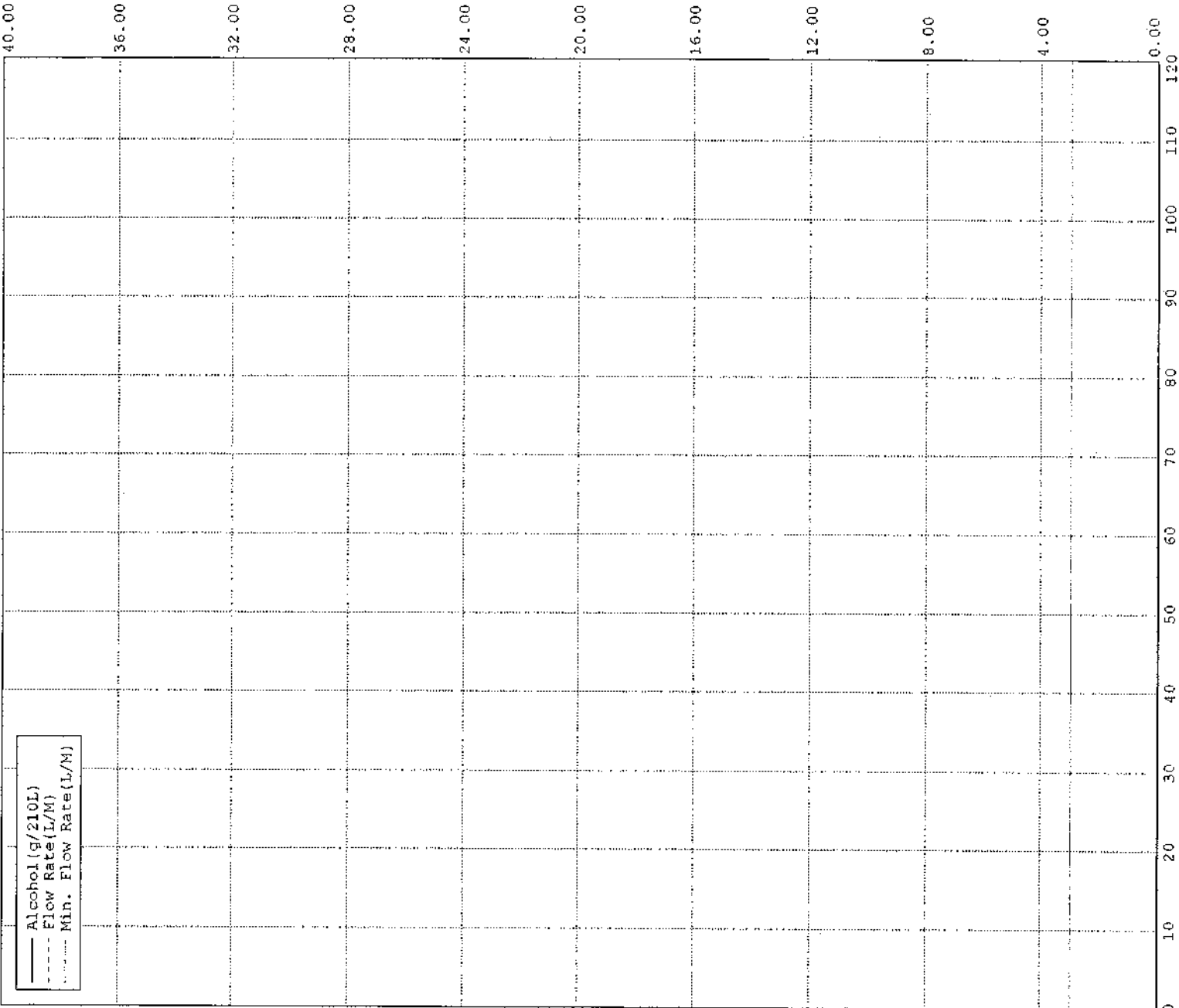
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 13:51
0.000 13:51
VERIFIED 13:51
0.079 13:51
0.000 13:52
INCOMPLETE 13:54

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 13:56:15

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1

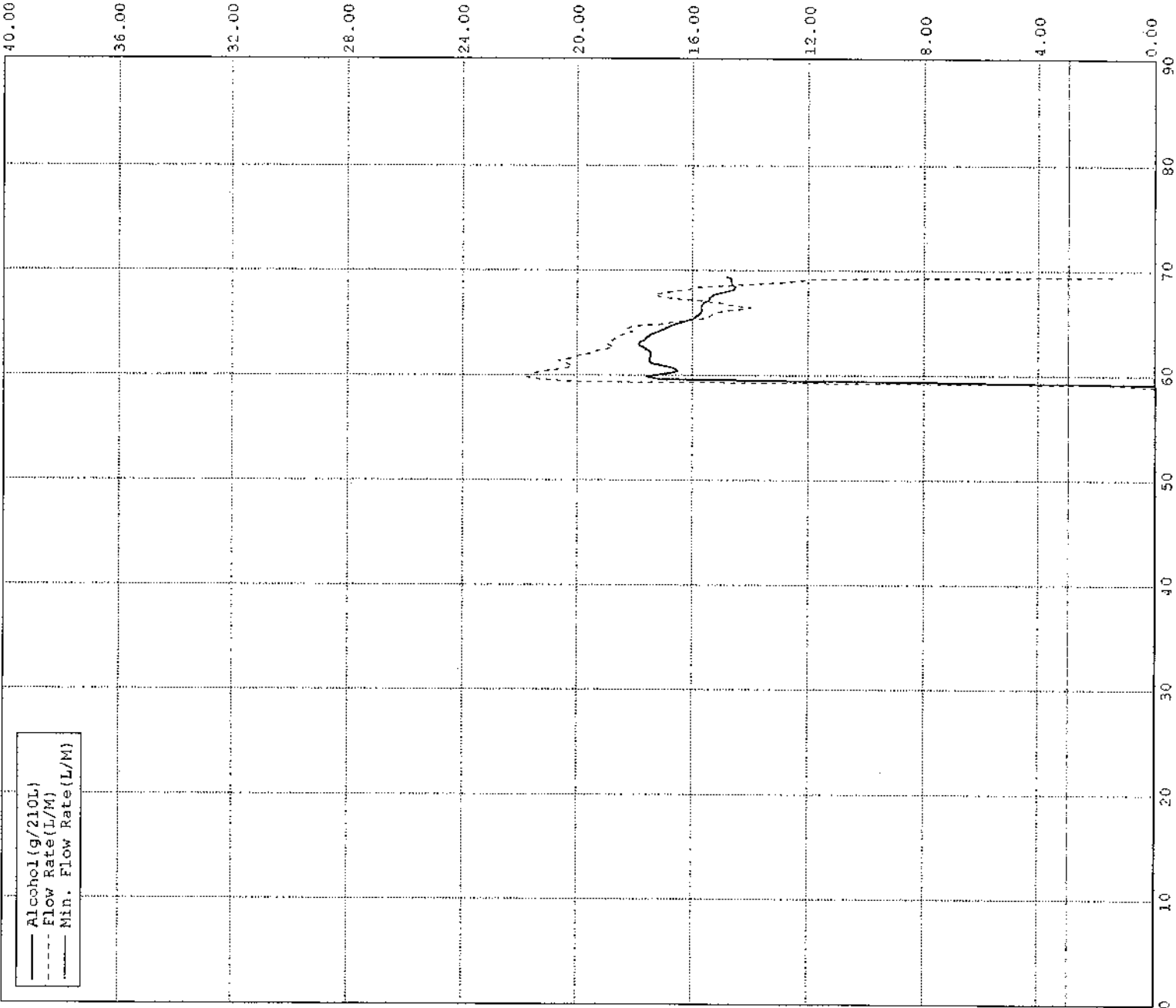
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 13:57
BLANK TEST 0.000 13:57
INTERNAL STANDARD VERIFIED 13:57
EXTERNAL STANDARD 0.079 13:57
BLANK TEST 0.000 13:58
SUBJECT SAMPLE INVALID 14:00

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 14:12:22

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

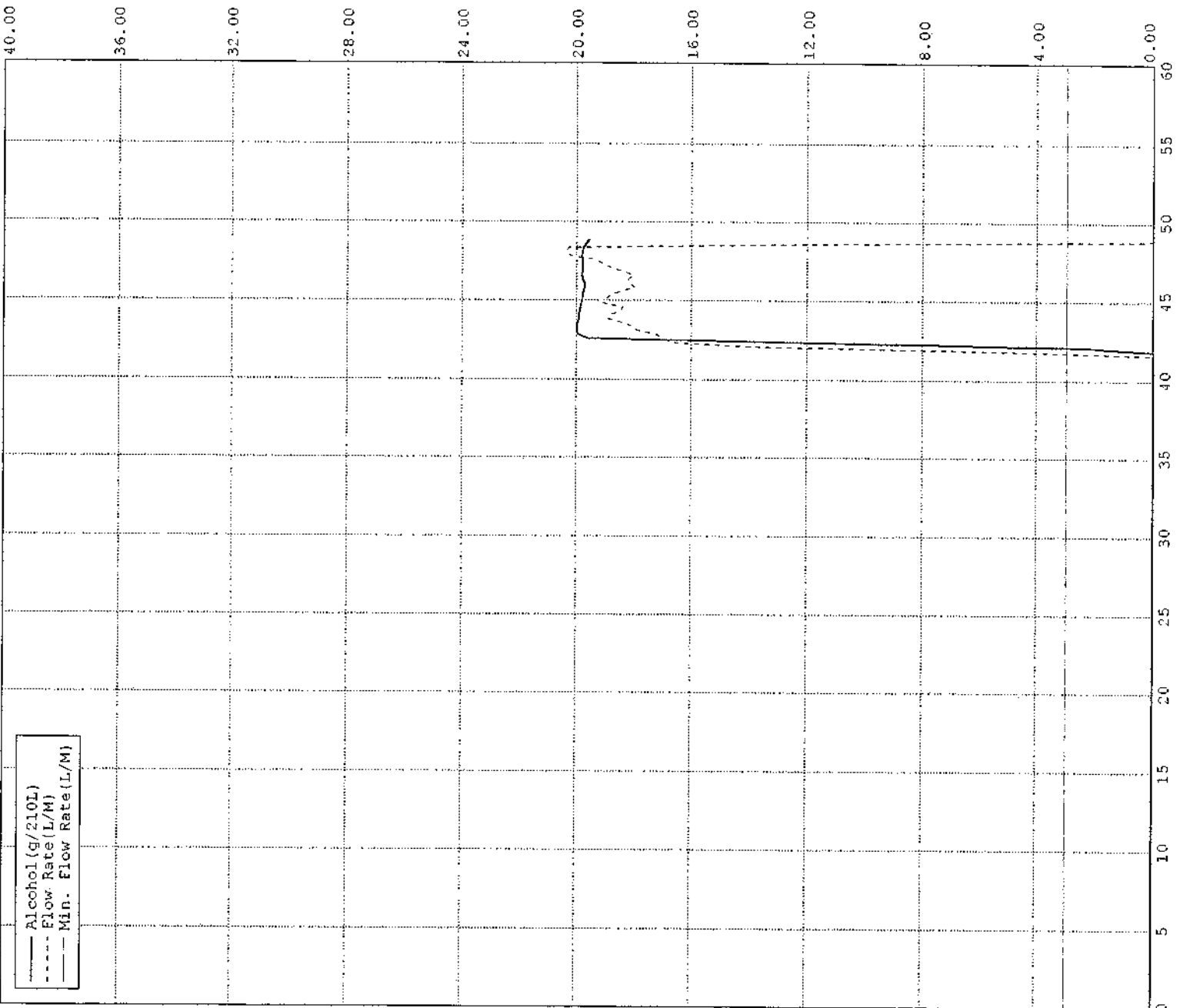
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:24
BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
Xq = 0.097 (1.38%)		
EXTERNAL STANDARD	0.079	14:25
X[1] = 0.0790 (-0.0009)	(0.0019)	
BLANK TEST	0.000	14:26
SUBJECT SAMPLE	XXX	14:26
X[1] = 0.0976 (-0.0101)	(0.0013)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 14:32:39

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

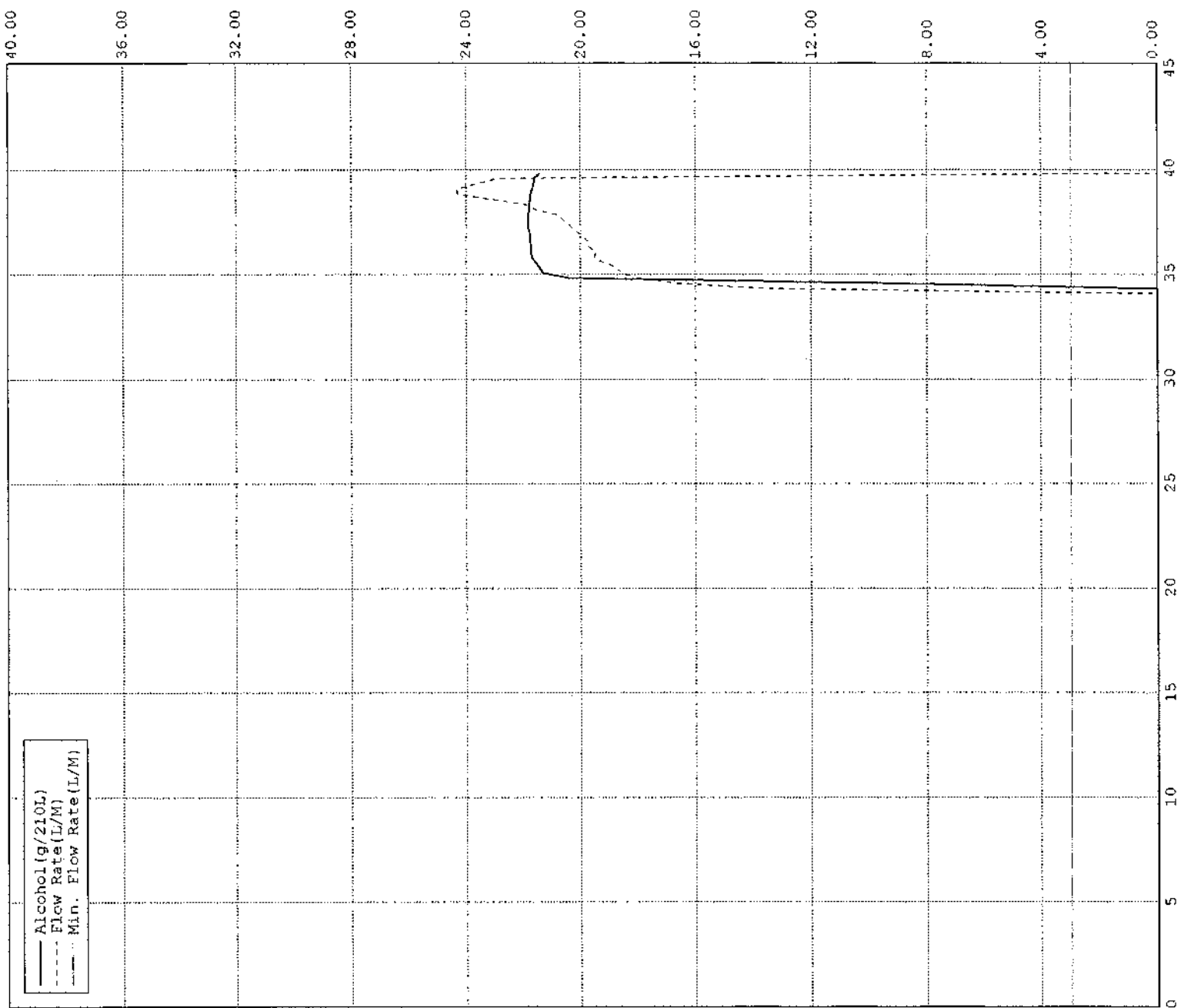
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 14:33
BLANK TEST 0.000 14:33
INTERNAL STANDARD VERIFIED 14:33
Xq = 0.095 (0.18%)
EXTERNAL STANDARD 0.078 14:34
X[1] = 0.0785 (0.0030) (0.0030)
BLANK TEST 0.000 14:35
SUBJECT SAMPLE XXX 14:35
X[1] = 0.1066 (-0.0207) (0.0016)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 14:41:32

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

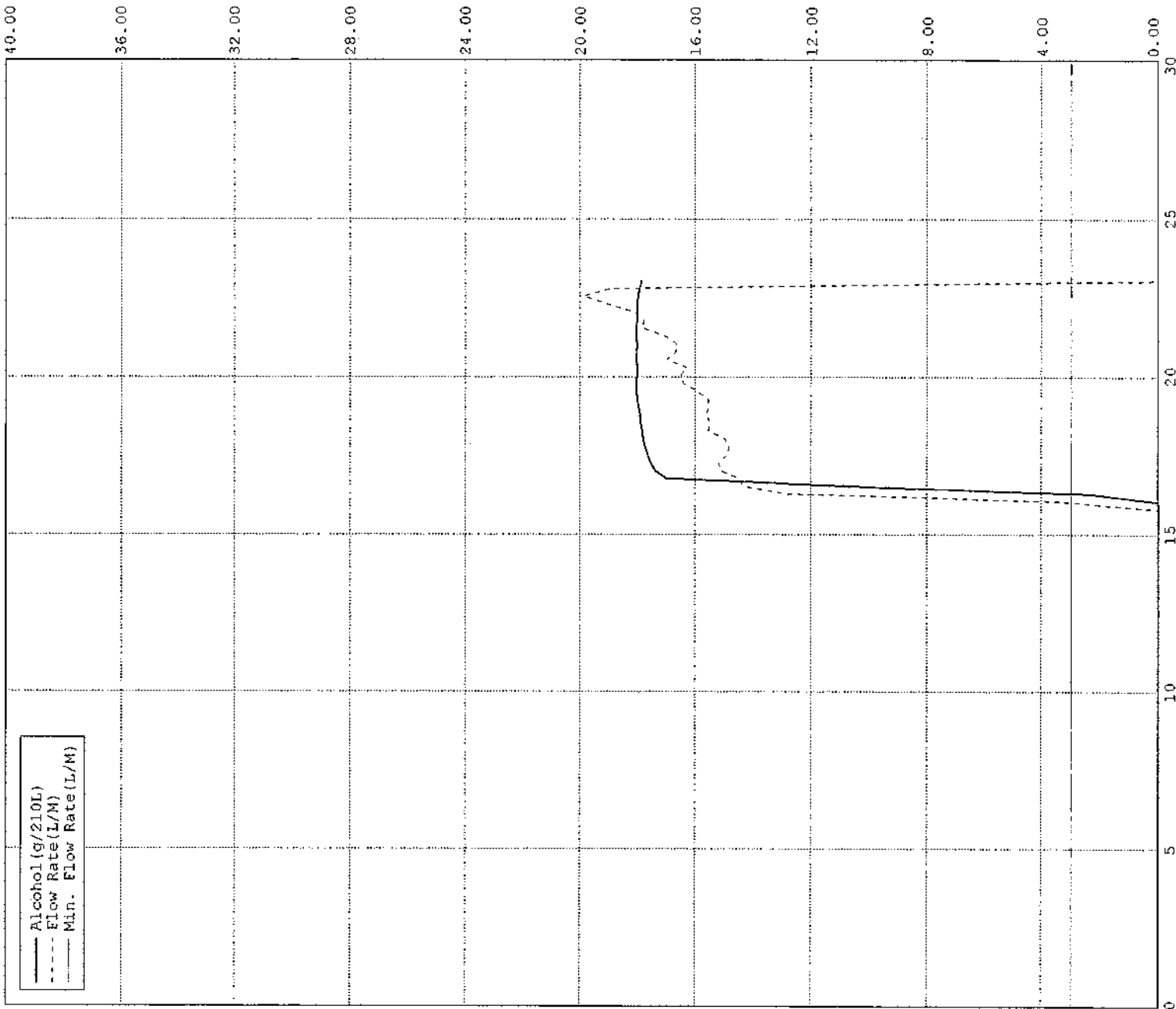
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:43
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
Xq = 0.096 (0.46%)		
EXTERNAL STANDARD	0.079	14:43
X[1] = 0.0789 (-0.0004)	(0.0026)	
BLANK TEST	0.000	14:44
SUBJECT SAMPLE (Vol=1.84L)	0.089	14:44
X[1] = 0.0892 (-0.0003)	(0.0008)	
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.079	14:46
X[1] = 0.0791 (0.0000)	(0.0014)	
BLANK TEST	0.000	14:47

Filter 2 avg = -0.0003
Filter 3 avg = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 14:03:51

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

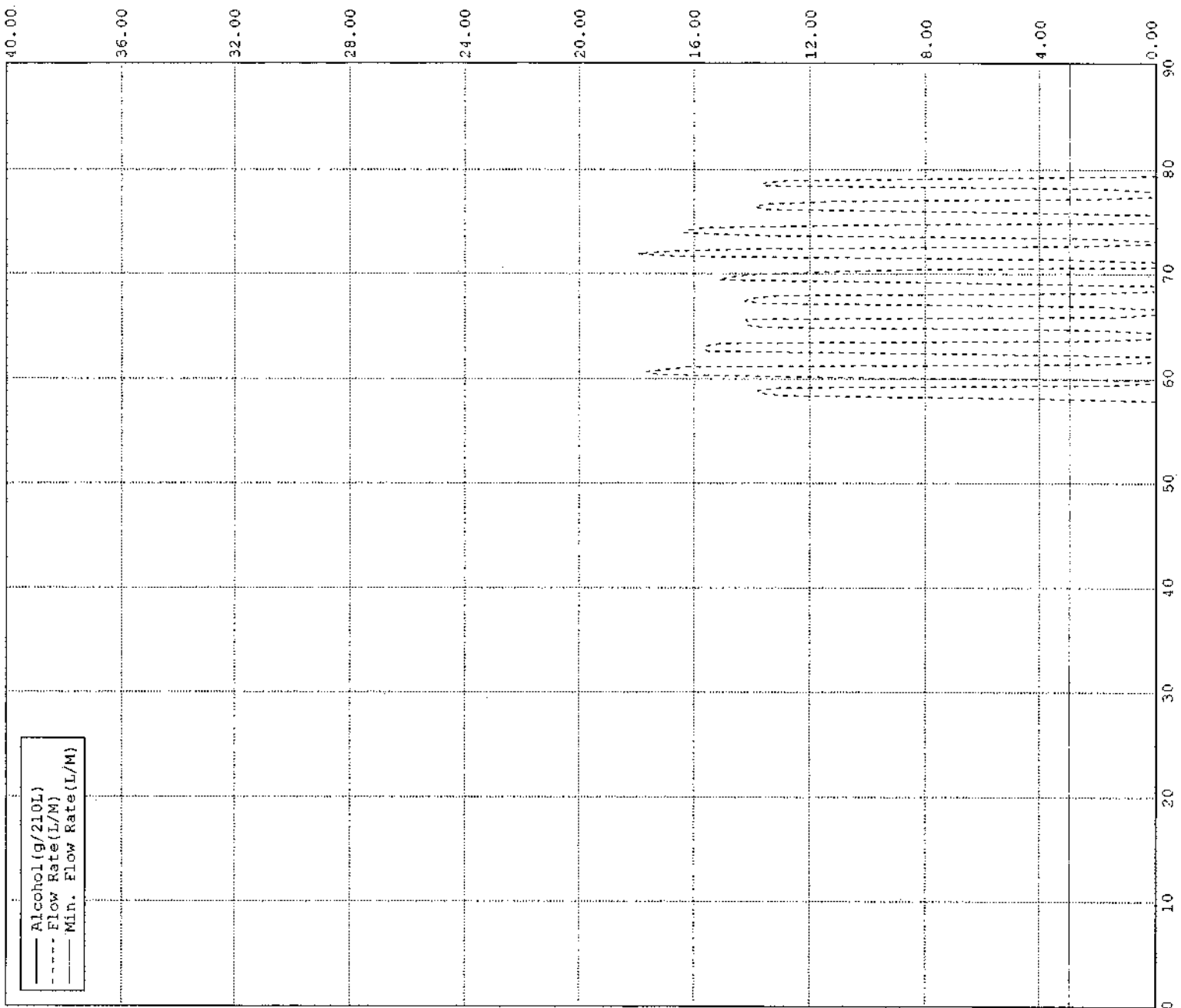
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 14:05
BLANK TEST 0.000 14:05
INTERNAL STANDARD VERIFIED 14:05
EXTERNAL STANDARD 0.079 14:05
BLANK TEST 0.000 14:06
SUBJECT SAMPLE XXX 14:07

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100352

Date: 09/30/2015
Time: 13:42:55

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

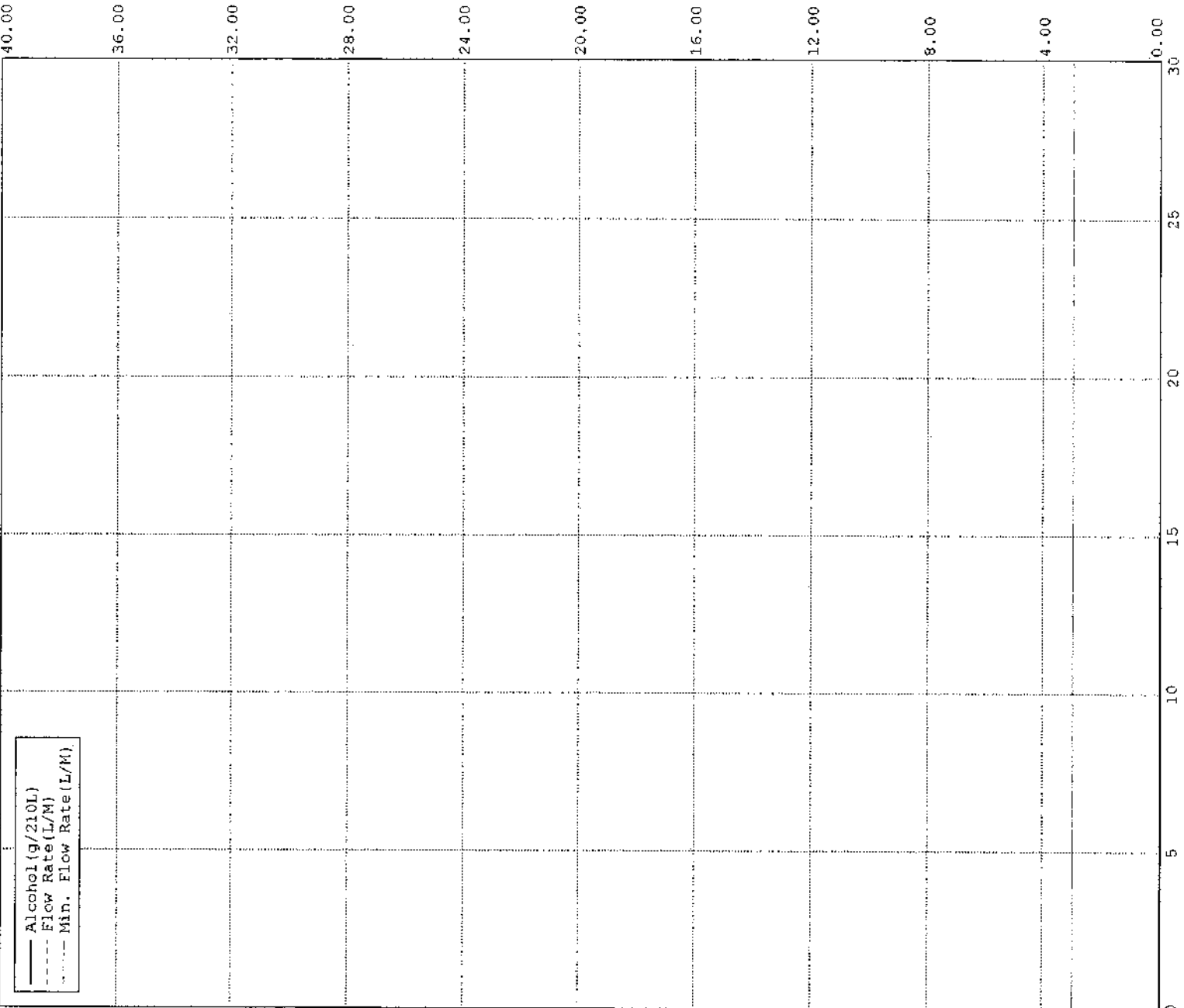
DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:44
INTERNAL STANDARD VERIFIED 13:44
EXTERNAL STANDARD 0.079 13:44
BLANK TEST 0.000 13:45

RFI DETECTED

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100352

Date: 09/30/2015
Time: 15:03:13

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
EXTERNAL STANDARD	0.079	15:05
BLANK TEST	0.000	15:06
SUBJECT SAMPLE (Vol=2.07L)	0.000	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.079	15:07
BLANK TEST	0.000	15:08

