

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100397 Analyst Colleen Bryant Start Date 4/20/15

1. Diagnostic Test (attached)
2. 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.5 L (1.3L to 1.7L)
5. 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 11313080A1 Exp 6/1/15
 - iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
 - v. 0.200g/210L Mnf Guth Lot 14130 Exp 5/12/10
 1. Simulator S/N DR1300 Date Calibrated 1/20/15
 - vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16
 1. Simulator S/N DR6267 Date Calibrated 1/20/15
6. 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 DR-4162 Date Calibrated 1/19/15
 - ii. Isopropanol - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
 1. Simulator S/N DR-4163 Date Calibrated 1/19/15
 - iii. Negative Control - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N DR-4178 Date Calibrated 1/19/15
 - e. RFI
7. Verify stylus is calibrated
8. Reset Options
9. Clear Memory
10. Verification of Calibration
11. Non-Drinking Subject Test (attached)
12. Upload
13. Remove tank prior to shut down

End Date 4/23/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/20/2015
Time: 09:03:43

VERSIONS

DMT: 3.00
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 47.0°C PASSED

PUMP INFO

Flow Rate = 3.951 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: 100397

Date: 04/20/2015
Time: 9:16 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.4°C

Current Barometer 29.4 in
Volume (Ltr) 1.52

Settings

Lamp: 1.74 V
Bias: 81 V
Cooler: 1.66 V
Chopper: 538 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.060 V

CALIBRATION FACTORS

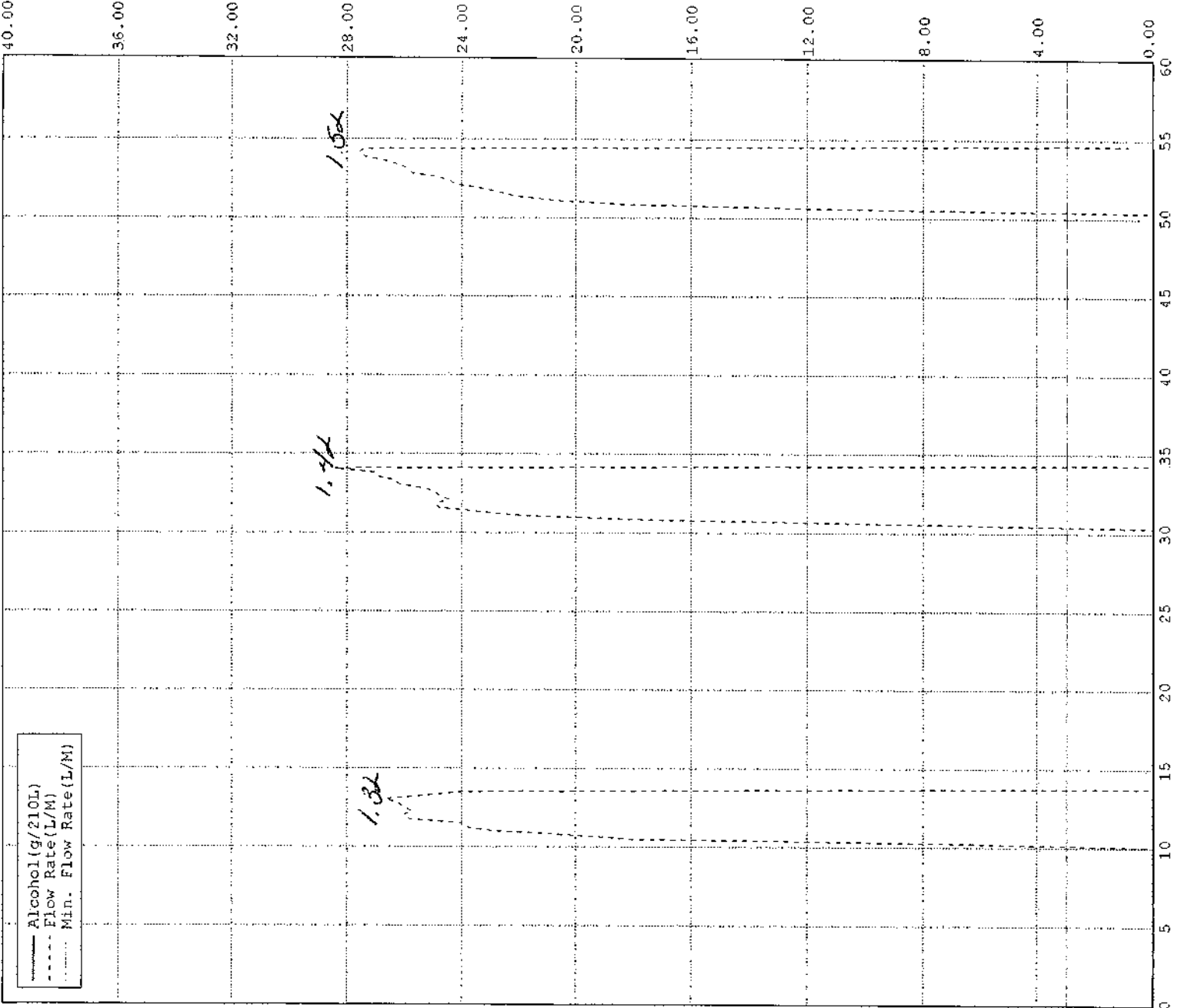
Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/18/2011
Time: 13:35:39

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.983031 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0079 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0932 0.0500 <= Xq < 0.2000
a21 = 1.208582 1.050 <= a21 < 1.300
a31 = 0.521034 0.300 <= a31 < 0.800



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100397

 Date: 04/20/2015
 Time: 09:19:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME

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 29.42: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:20
INTERNAL STANDARD	VERIFIED	09:20
EXTERNAL STANDARD	0.079	09:21
BLANK TEST	0.000	09:22
SUBJECT SAMPLE (Vol=1.58L)	0.000	09:23
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.079	09:24
BLANK TEST	0.000	09:25

RMB

LINEARITY CHECK

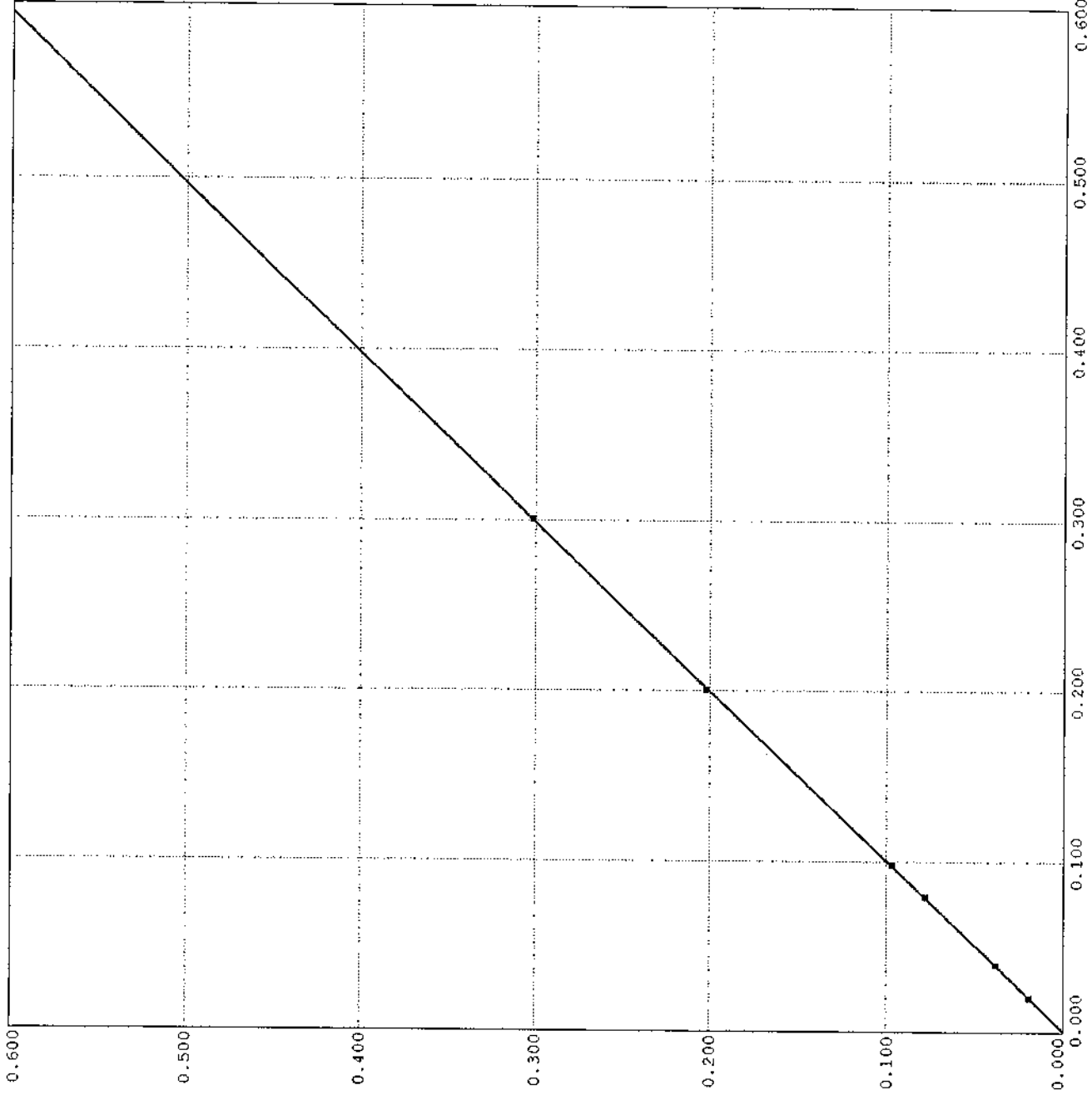
Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/20/2015
Time: 14:08:35

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0392	0.0004
0.079	0.0792	0.0004
0.098	0.0980	0.0000
0.200	0.2030	0.0000
0.300	0.3022	0.0004

SLOPE = 1.010023
R² = 0.999956



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

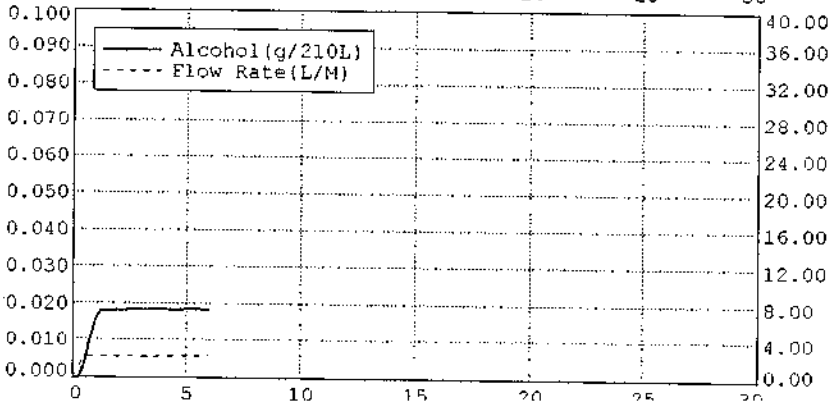
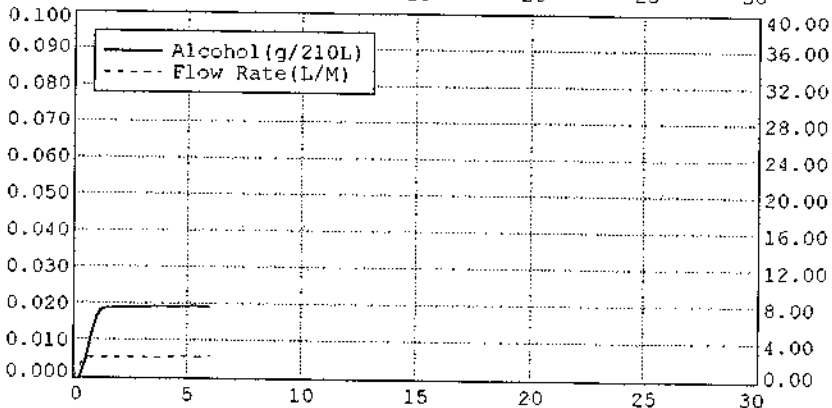
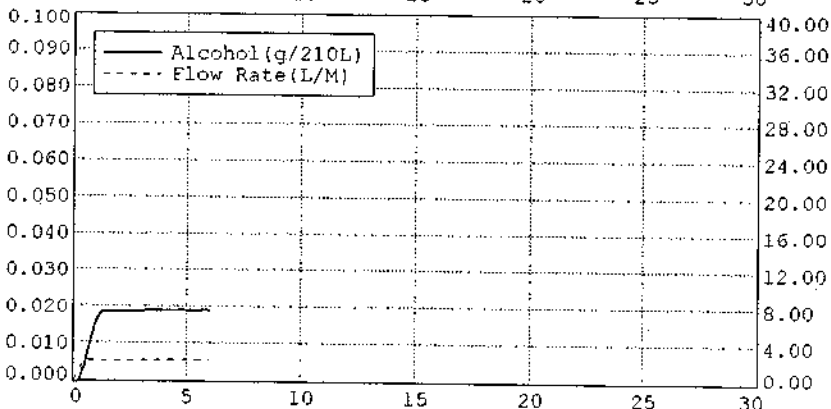
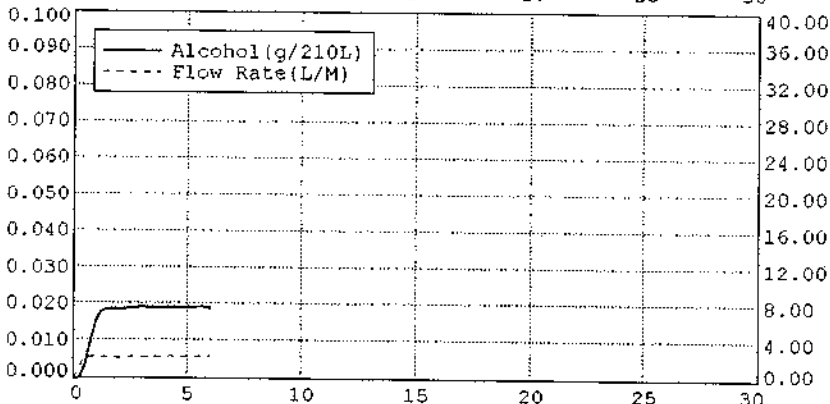
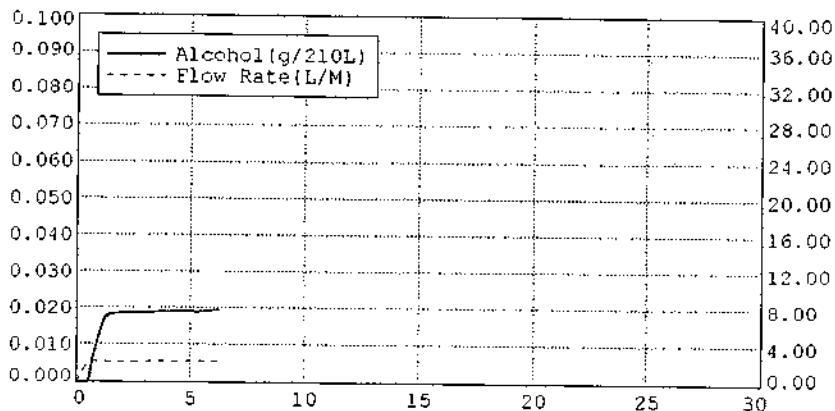
Date: 04/20/2015
 Time: 14:08:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.46: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 973 psi

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.021	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.020	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.020	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.020	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.020	14:15
BLANK TEST	0.000	14:15

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

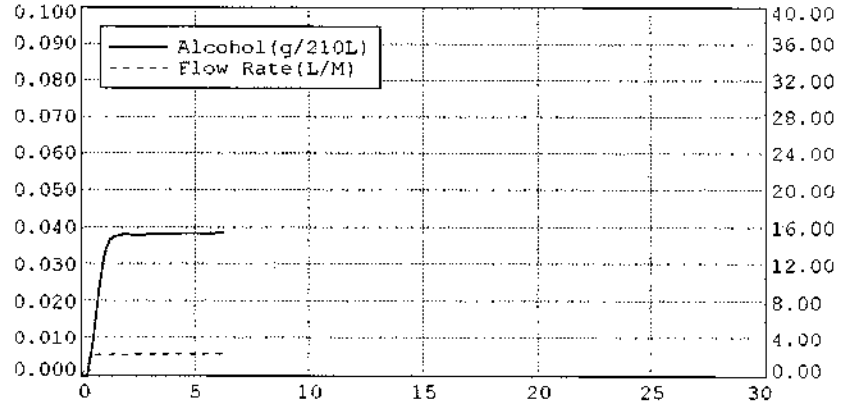
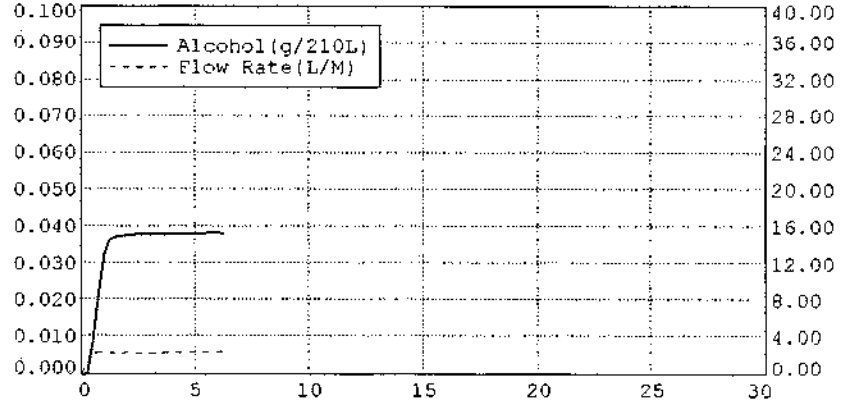
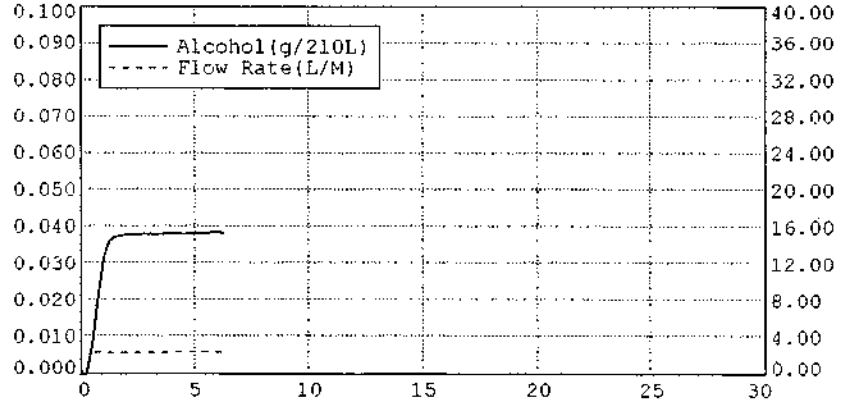
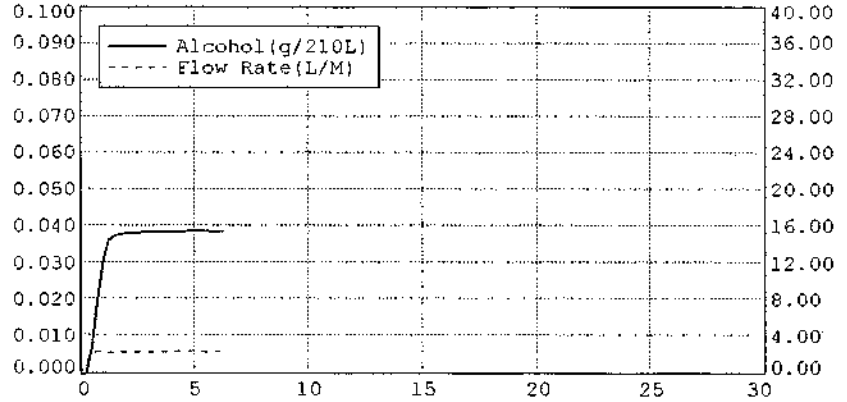
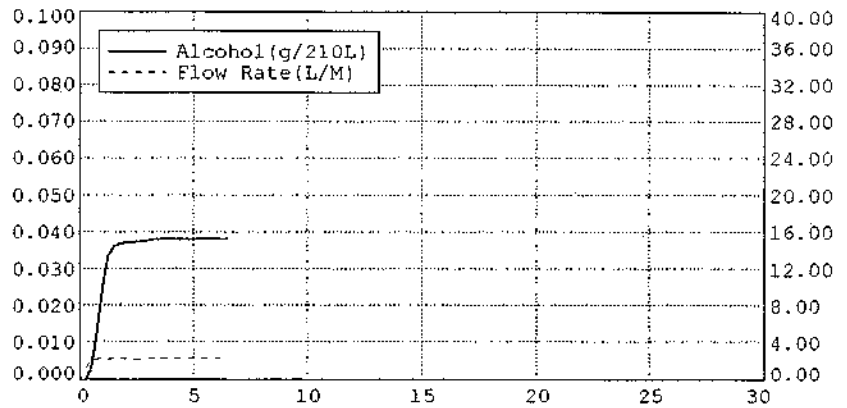
Date: 04/20/2015
 Time: 14:18:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.47: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1046 psi

BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.039	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.039	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.039	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.039	14:23
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.040	14:24
BLANK TEST	0.000	14:25

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

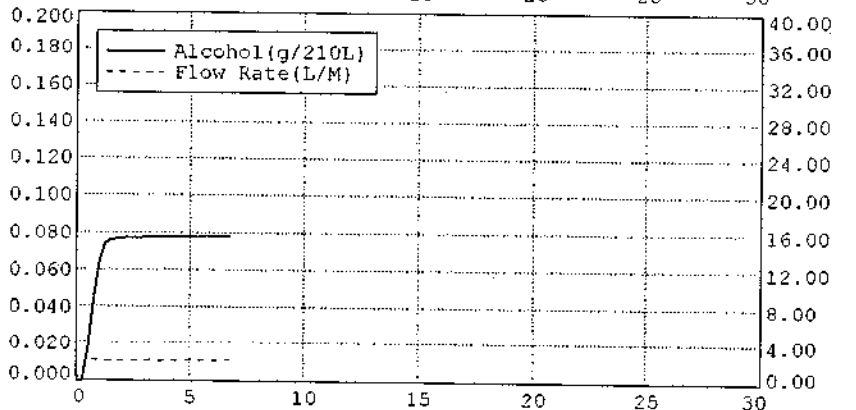
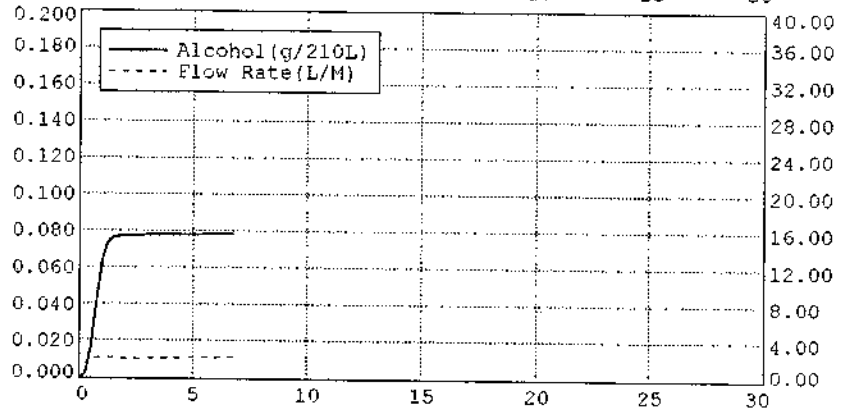
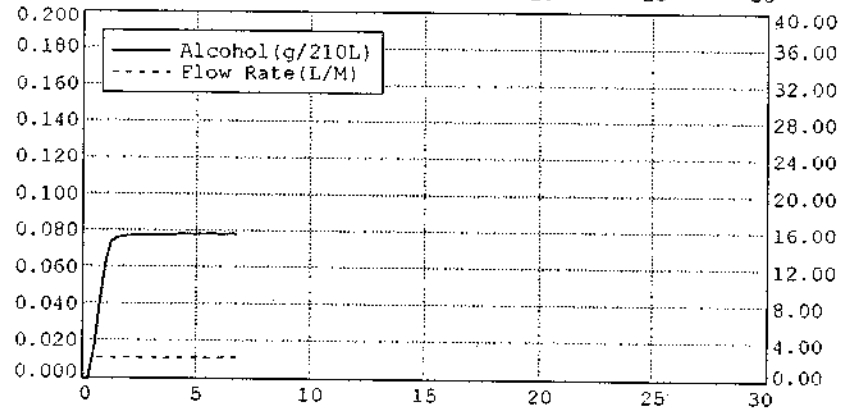
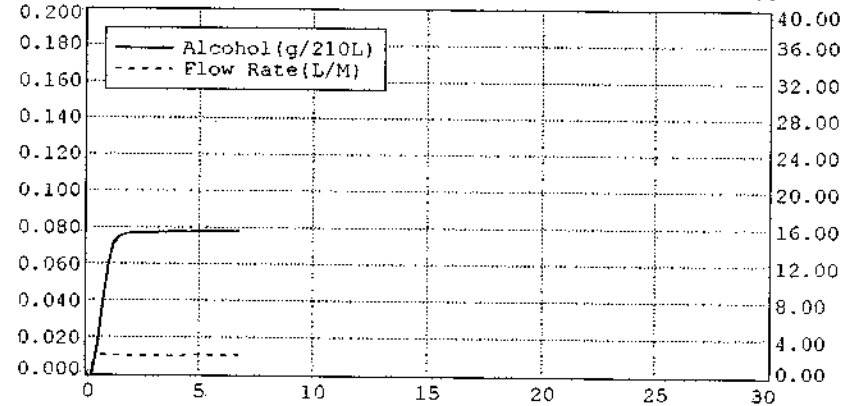
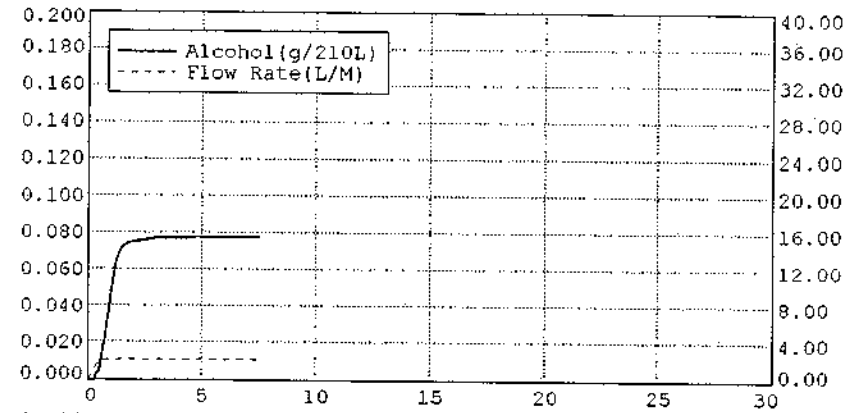
Date: 04/20/2015
 Time: 14:26:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.46: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015
 TANK PRESSURE: 835 psi

BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.079	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.079	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.079	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.079	14:32
BLANK TEST	0.000	14:33

Average = 0.0792
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

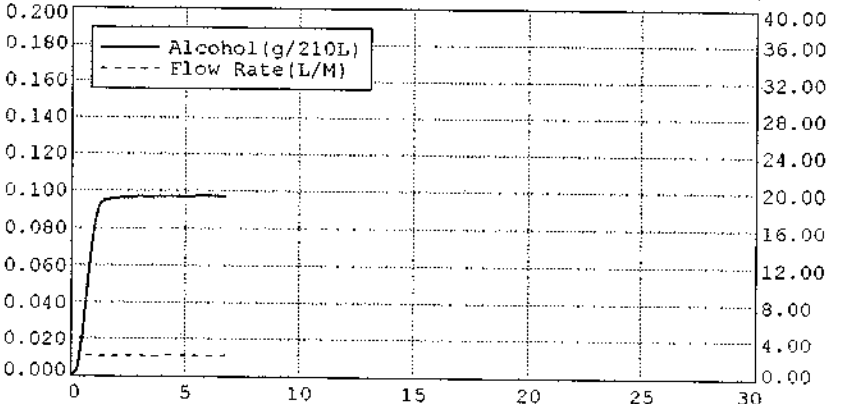
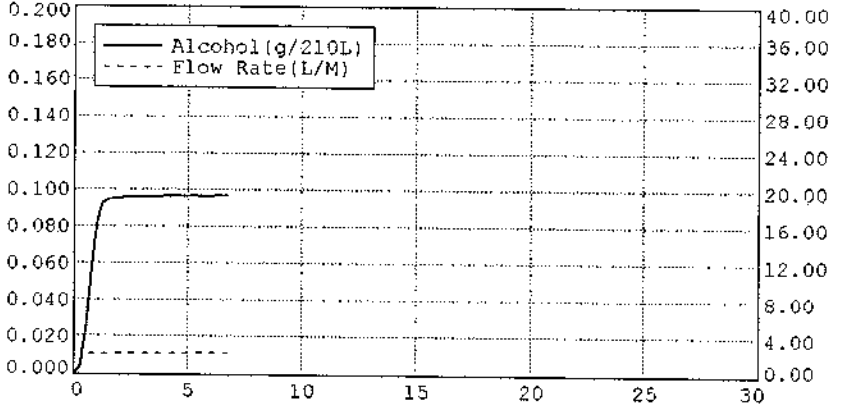
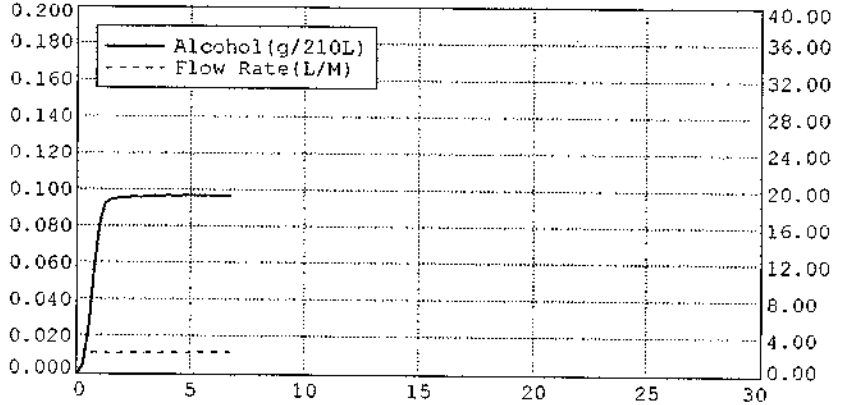
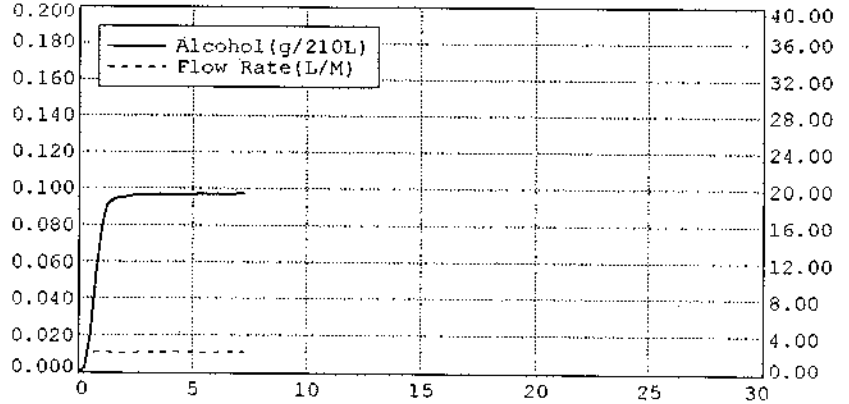
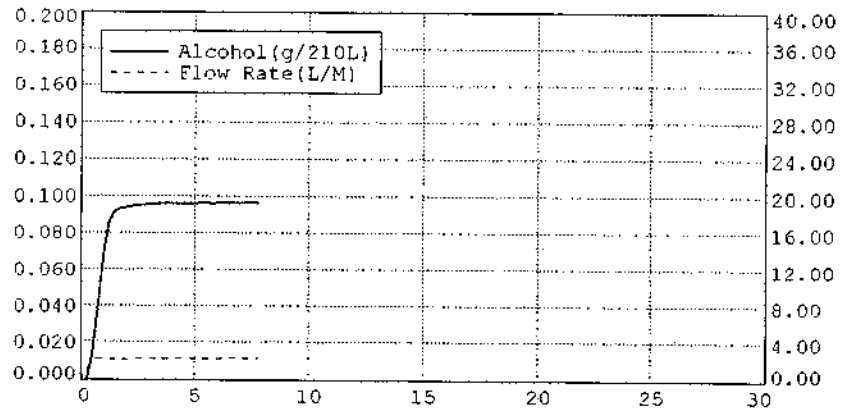
Date: 04/20/2015
 Time: 14:34:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.46: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 997 psi

BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.098	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.098	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.098	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.098	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.098	14:40
BLANK TEST	0.000	14:41

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

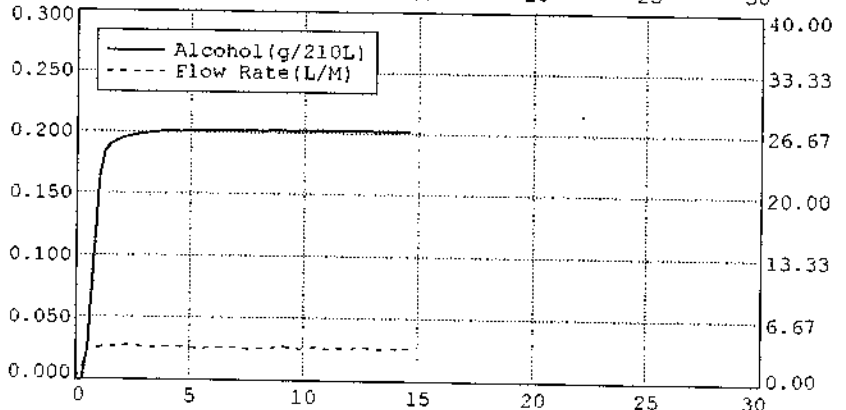
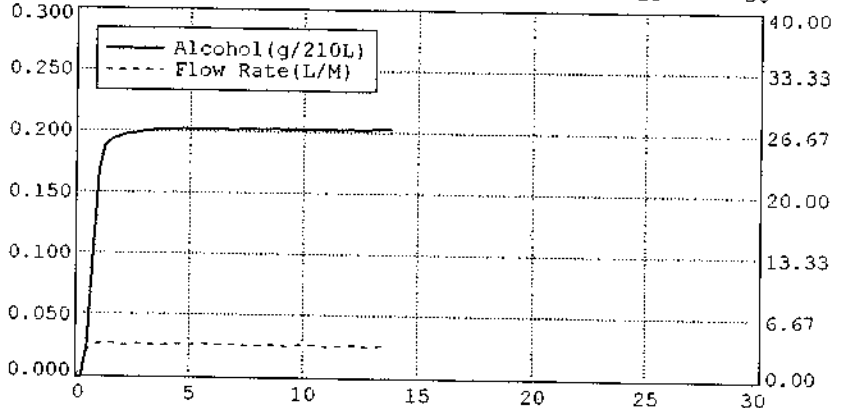
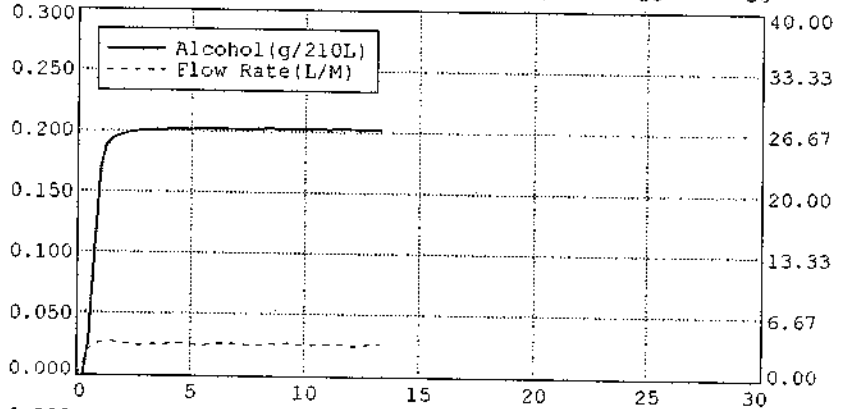
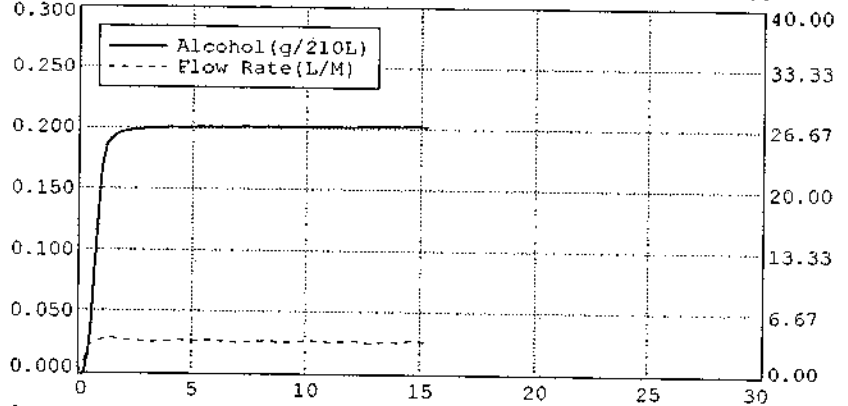
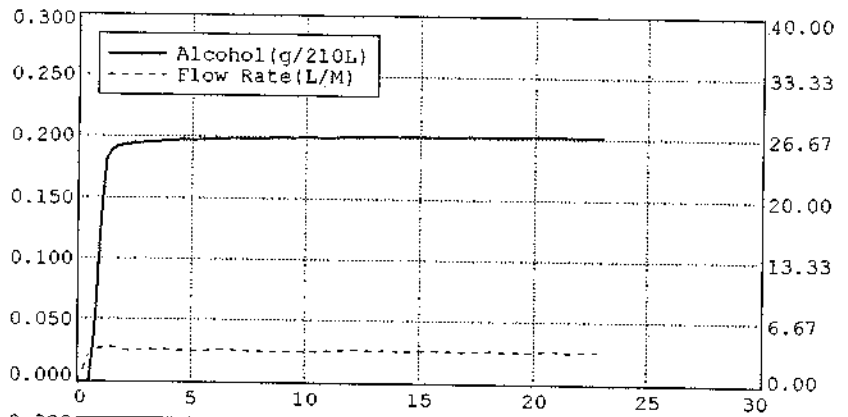
Date: 04/20/2015
 Time: 14:42:17

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.203	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.203	14:46
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.203	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.203	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.203	14:49
BLANK TEST	0.000	14:50

Average = 0.2030
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

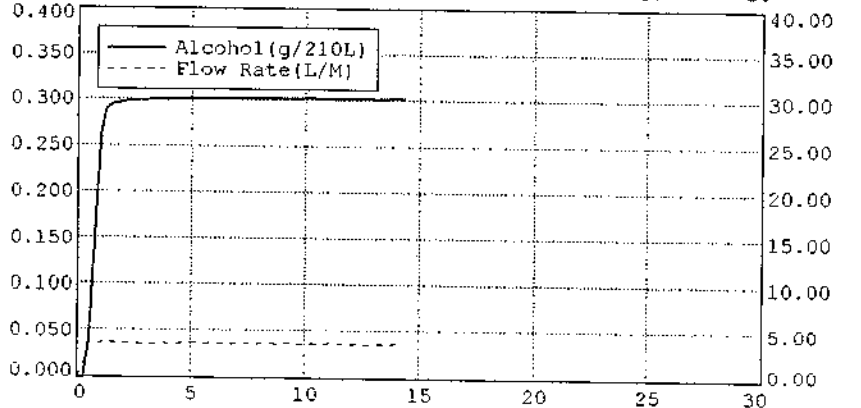
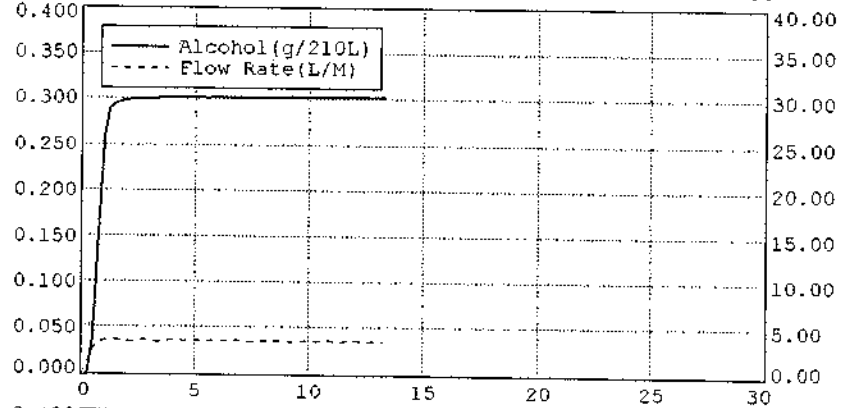
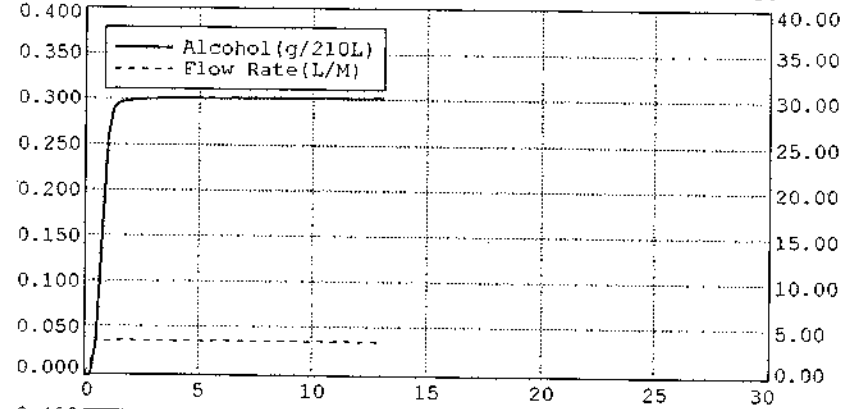
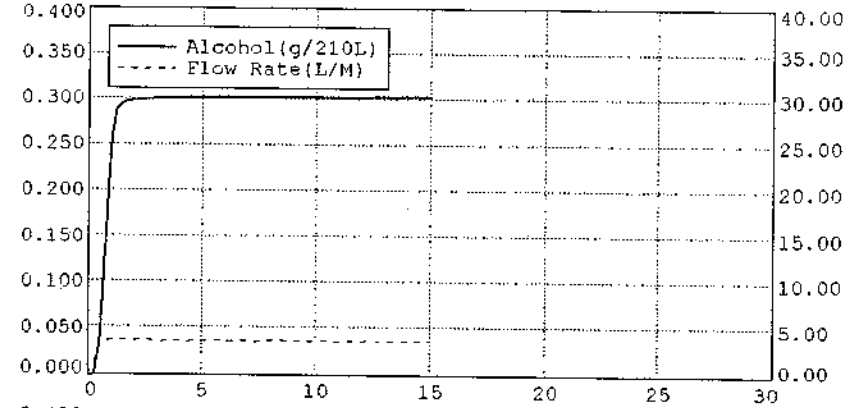
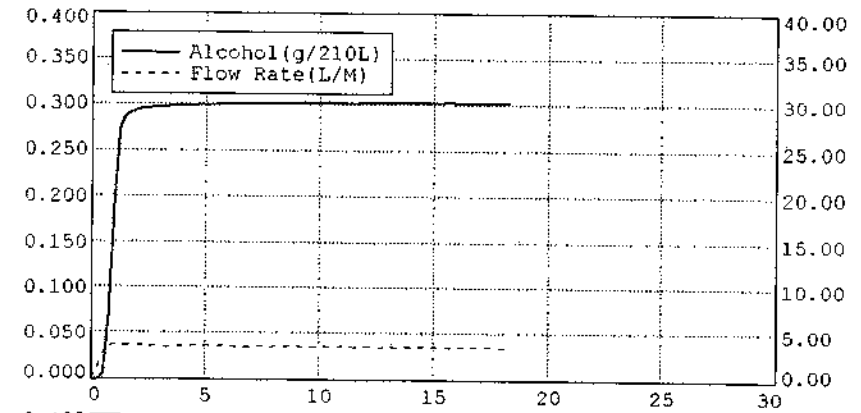
Date: 04/20/2015
 Time: 14:53:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.303	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.302	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.302	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.302	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.302	14:59
BLANK TEST	0.000	15:00

Average = 0.3022
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER.dmt: 100397

Date: 04/22/2015
Time: 15:24:52

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

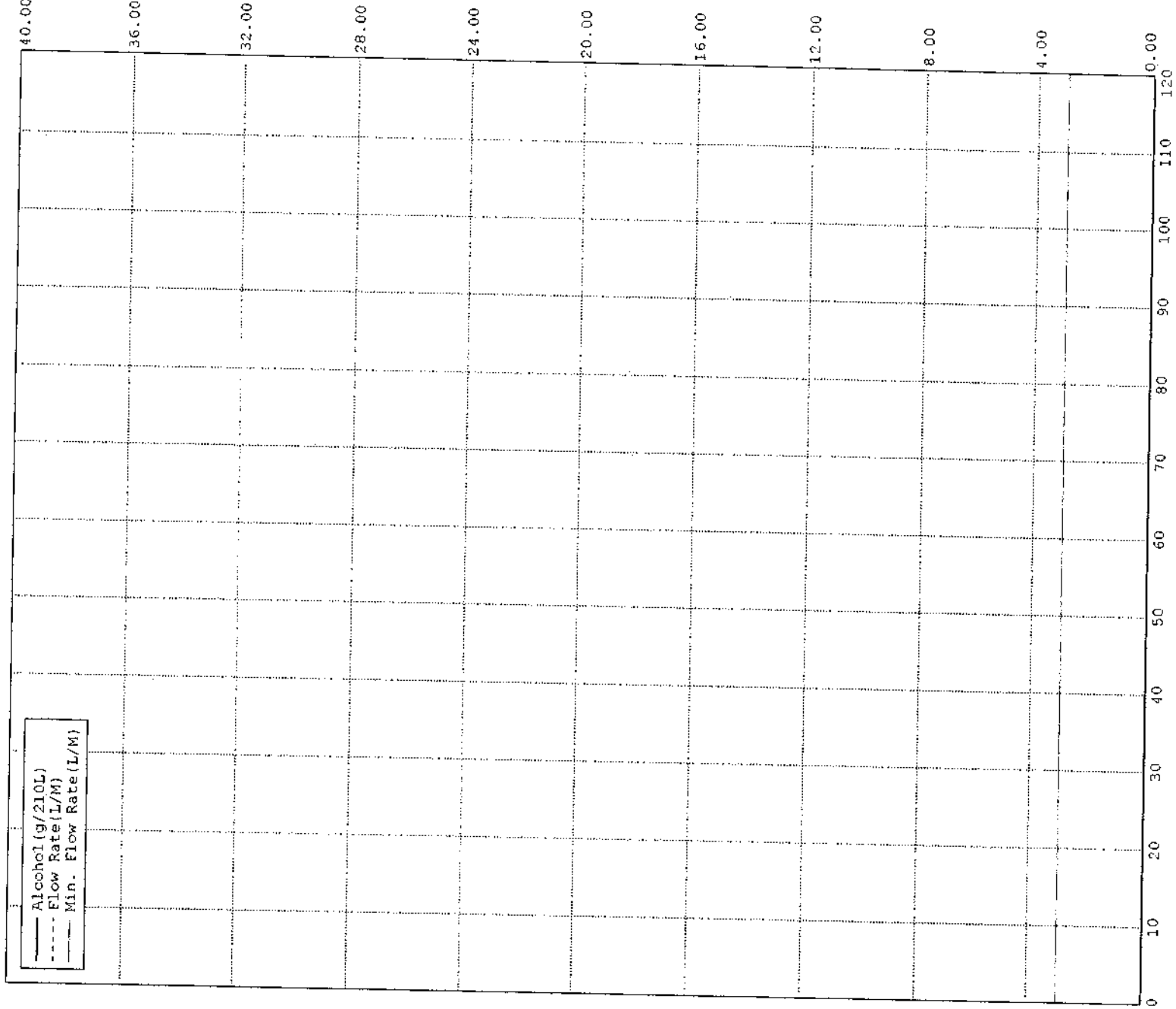
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 15:25
BLANK TEST 0.000 15:25
INTERNAL STANDARD VERIFIED 15:26
EXTERNAL STANDARD 0.080 15:26
BLANK TEST 0.000 15:27
SUBJECT SAMPLE INCOMPLETE 15:29

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/22/2015
Time: 15:31:44

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

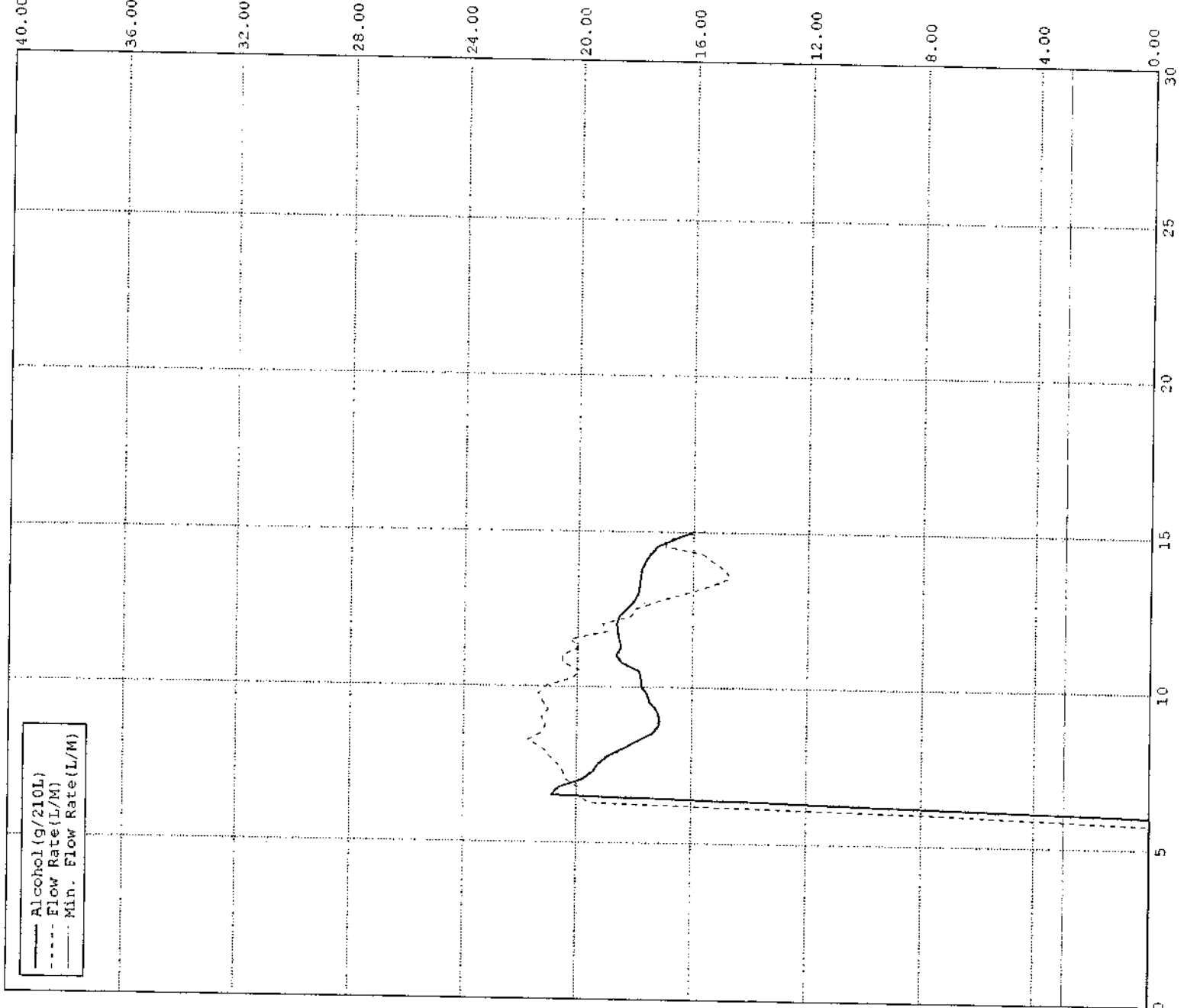
DEPT/AGENCY:
AAA1

CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:32
BLANK TEST	0.000	15:32
INTERNAL STANDARD	VERIFIED	15:32
EXTERNAL STANDARD	0.080	15:33
BLANK TEST	0.000	15:34
SUBJECT SAMPLE	INVALID	15:34



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/22/2015
Time: 15:35:58

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

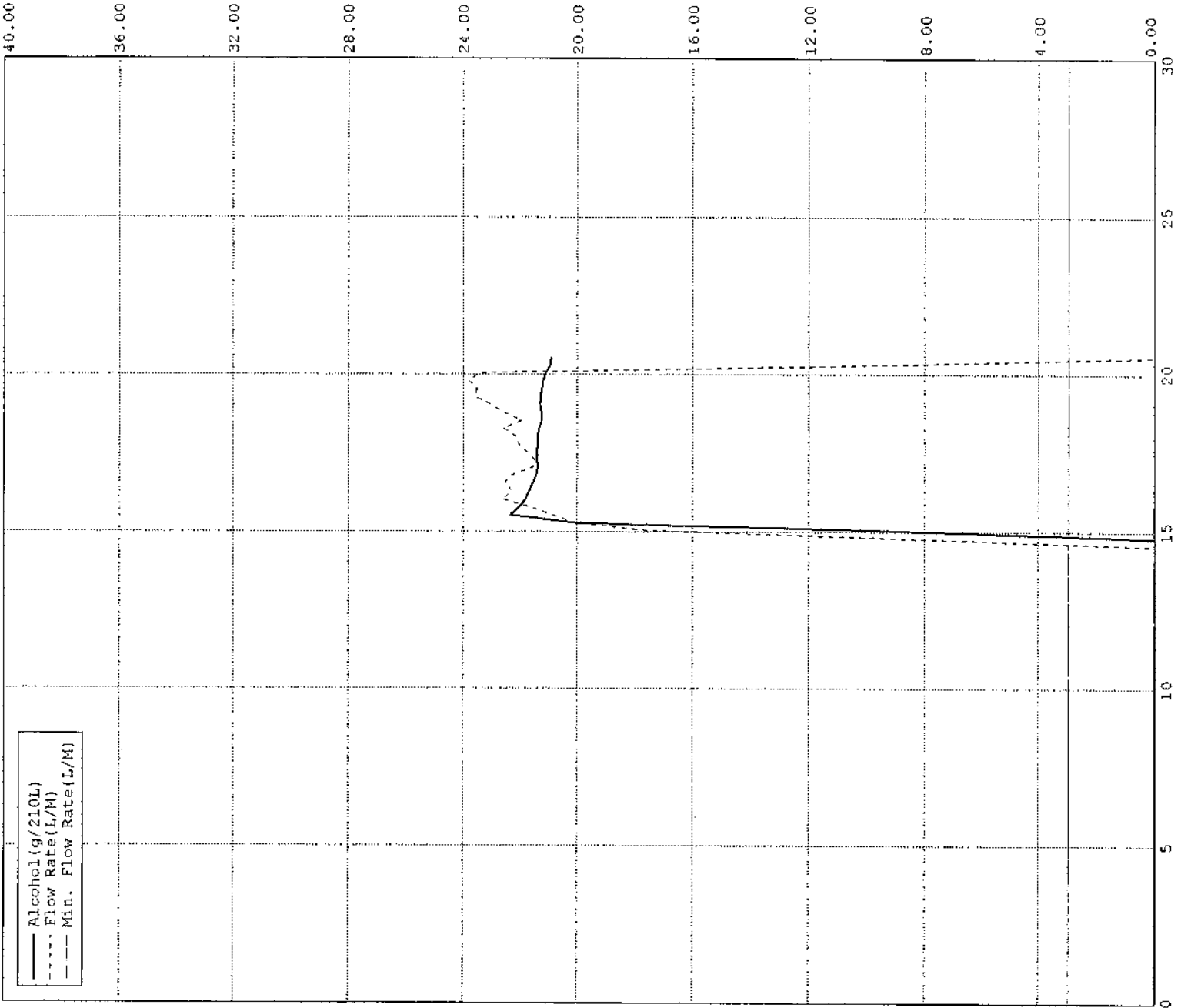
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:37
BLANK TEST	0.000	15:37
INTERNAL STANDARD	VERIFIED	15:37
Xq = 0.094 (0.38%)		
EXTERNAL STANDARD	0.080	15:37
X[1] = 0.0802 (-0.0036)	(0.0020)	
BLANK TEST	0.000	15:38
SUBJECT SAMPLE	XXX	15:38
X[1] = 0.1051 (-0.0158)	(0.0008)	

Interference Detected

Filter 2 average: -0.0031
Filter 3 average: 0.0017

CS



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100397

Date: 04/22/2015
Time: 15:41:30

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

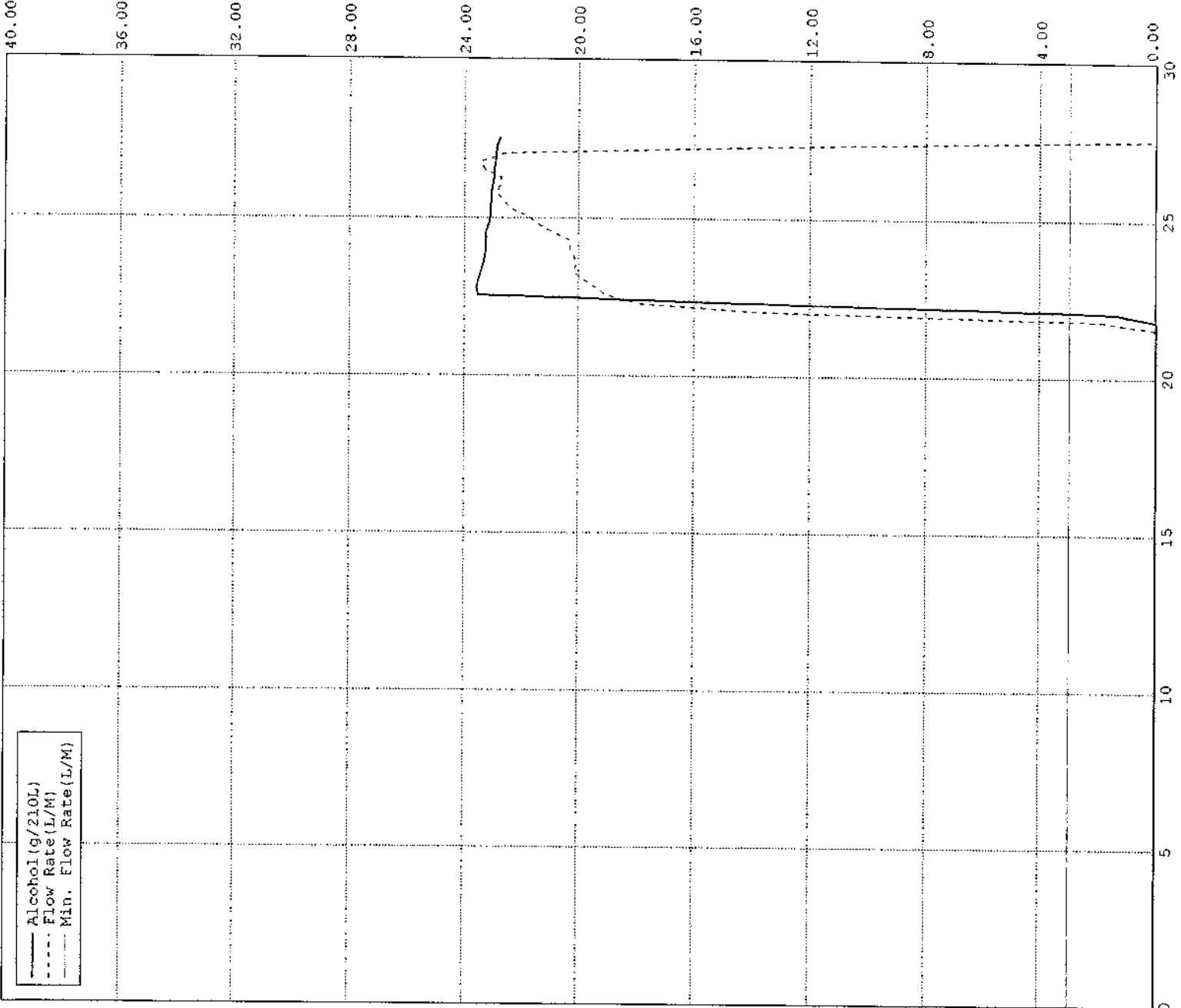
DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 15:42
BLANK TEST 0.000 15:42
INTERNAL STANDARD VERIFIED 15:42
Xq = 0.093 (0.28%)
EXTERNAL STANDARD 0.080 15:42
X[1] = 0.0800 (-0.0037) (0.0012)
BLANK TEST 0.000 15:43
SUBJECT SAMPLE XXX 15:44
X[1] = 0.1141 (-0.0264) (0.0009)

Interference Detected

CVB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 04/22/2015
 Time: 15:53:27

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

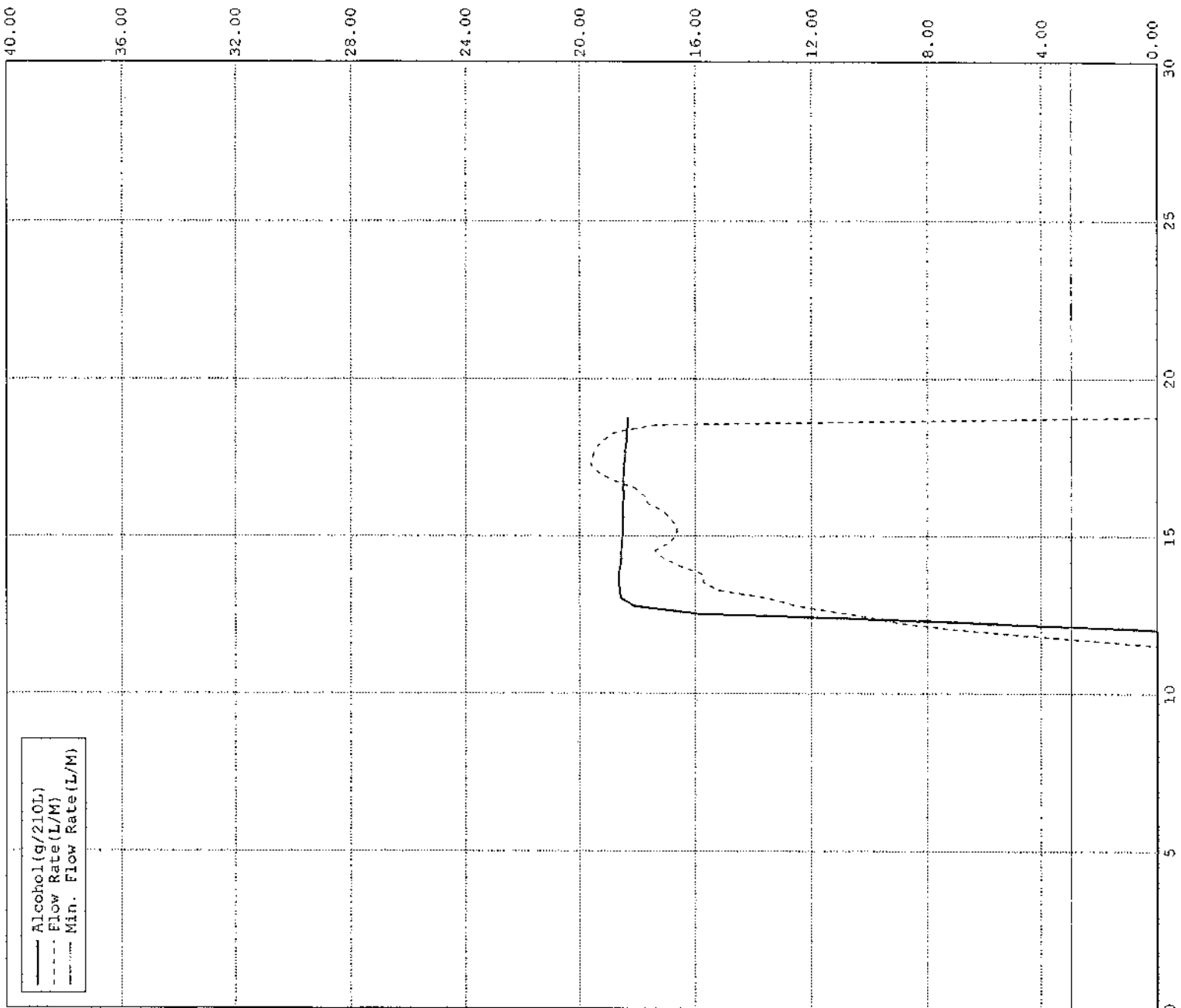
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA

CASE/REPORT: 15-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.78: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:55
BLANK TEST	0.000	15:55
INTERNAL STANDARD	VERIFIED	15:55
Xq = 0.093 (0.19%)	0.080	15:55
EXTERNAL STANDARD	X[1] = 0.0804 (-0.0024) (0.0023)	15:56
BLANK TEST	0.000	15:56
SUBJECT SAMPLE (Vol=1.85L)	0.092	15:56
X[1] = 0.0920 (0.0006) (0.0011)	0.000	15:57
BLANK TEST	0.080	15:58
EXTERNAL STANDARD	X[1] = 0.0797 (-0.0027) (0.0013)	15:58
BLANK TEST	0.000	15:58



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/23/2015
Time: 08:32:04

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

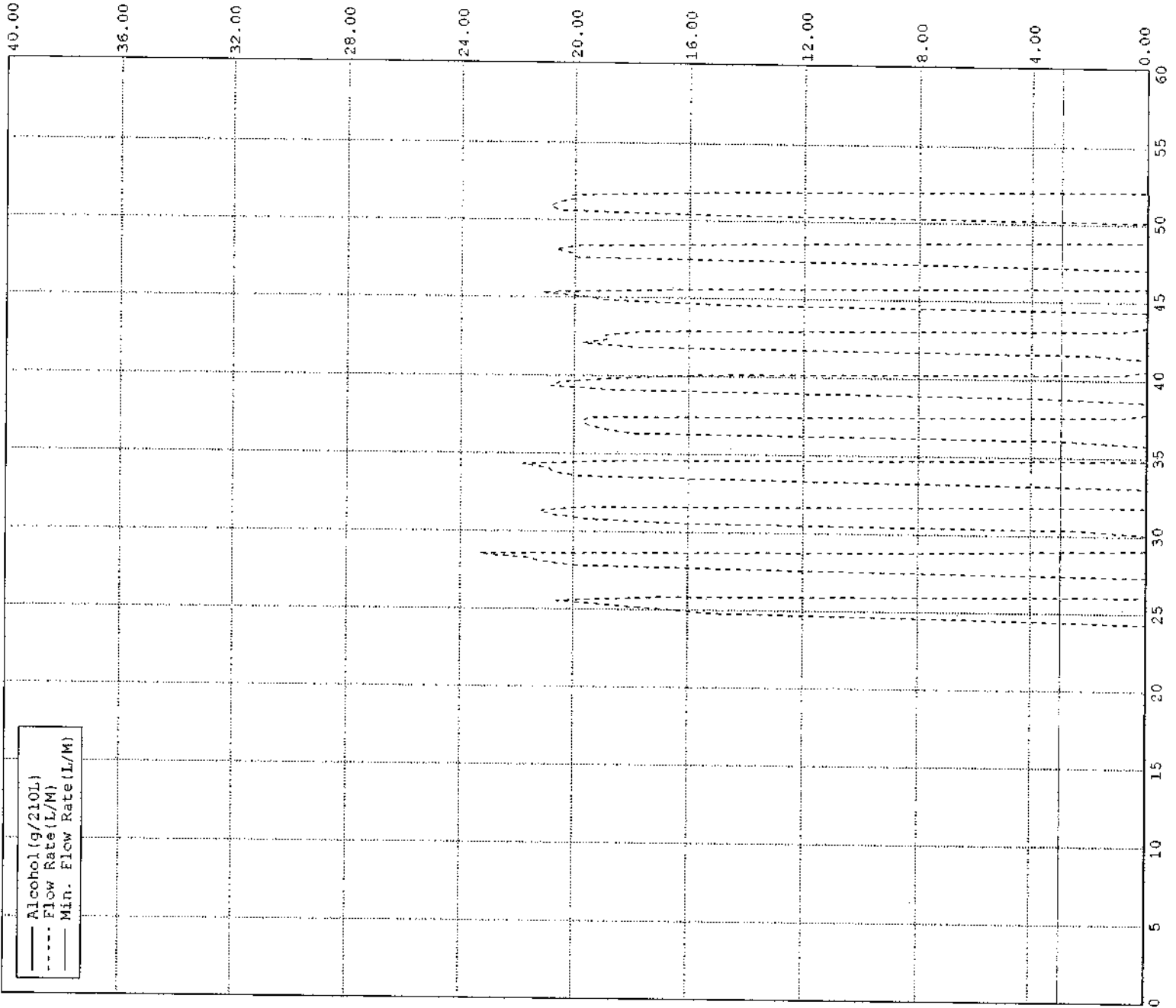
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 08:33
BLANK TEST 0.000 08:33
INTERNAL STANDARD VERIFIED 08:33
EXTERNAL STANDARD 0.080 08:33
BLANK TEST 0.000 08:34
SUBJECT SAMPLE XXX 08:35

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/23/2015
Time: 08:36:57

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

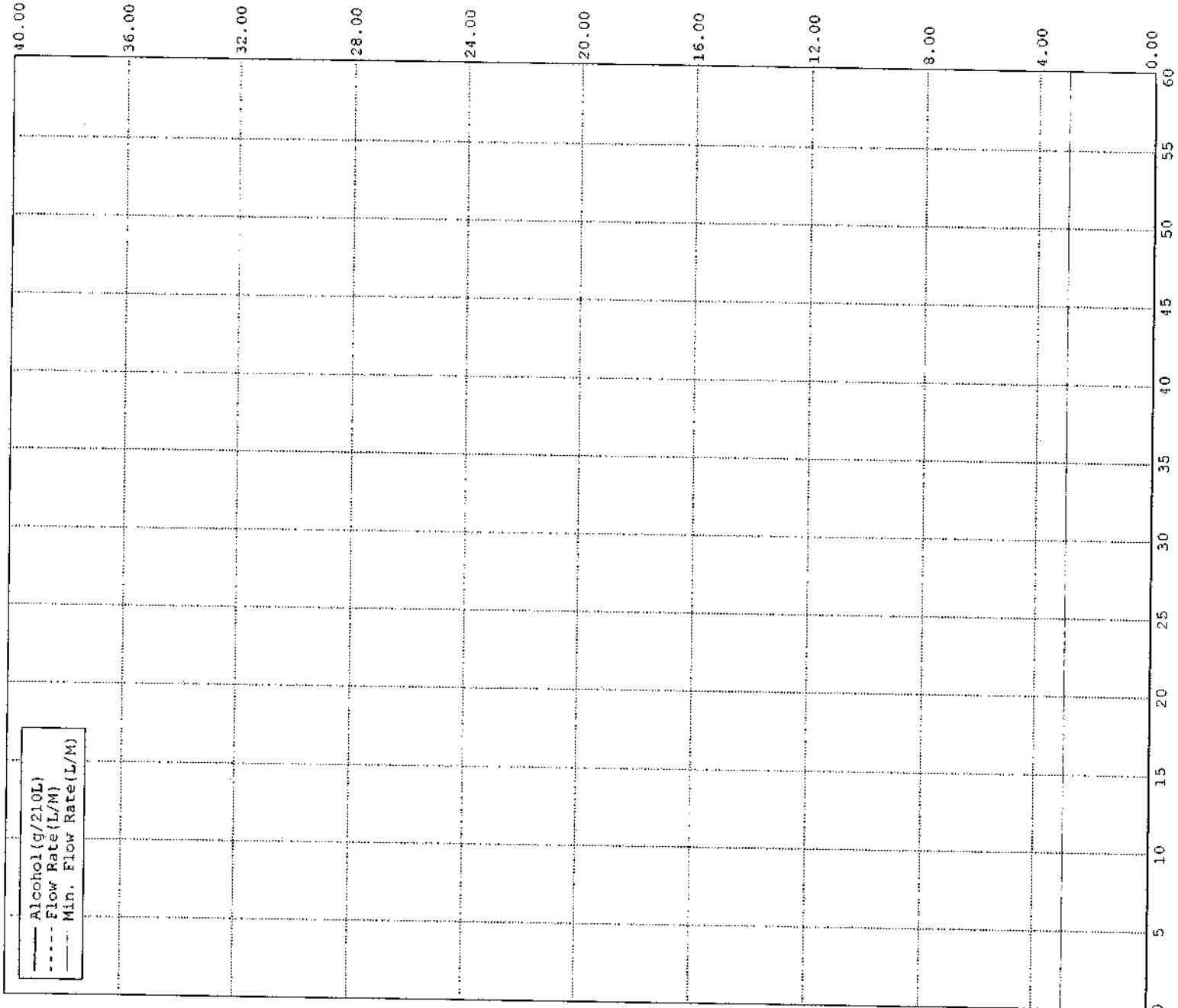
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 08:42
BLANK TEST 0.000 08:42
INTERNAL STANDARD VERIFIED 08:42
EXTERNAL STANDARD 0.080 08:42
BLANK TEST 0.000 08:43

RFI DETECTED

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 04/23/2015
Time: 08:58:49

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 29.76: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:00
BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.081	09:00
BLANK TEST	0.000	09:01
SUBJECT SAMPLE (Vol=2.45L)	0.000	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.080	09:03
BLANK TEST	0.000	09:04

