

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 100421 Analyst Collen O'Bryant Start Date 5/4/16

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 1.6 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 DR5298 Date Calibrated 8/5/15

vi. 0.300g/210L Mnf Guth Lot 15170 Exp 7/20/17

1. Simulator S/N SD1198 Date Calibrated 8/5/15

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N SD1199 Date Calibrated 8/5/15

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

1. Simulator S/N SD1177 Date Calibrated 8/5/15

iii. Negative Control - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N DR4161 Date Calibrated 8/5/15

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 5/5/16

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 10:40:24

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 42.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.75 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.65 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 541 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.540 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.102 0.353 (0.00% - 4.00%) PASSED

Technician Screen

Joint Base Elmendorf - Richardson
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 10:55 AM

Temperatures (°C)
Sample Cell: 48.8°C
Breath Tube: 44.0°C

Current Barometer 29.6 in
Volume (Ltr) 1.47

Settings
Lamp: 1.81 V
Bias: 80 V
Cooler: 1.65 V
Chopper: 540 Hz

Voltages (V)
Flow: 1.09 V
Detector: -0.020 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 07/28/2011
Time: 14:46:11

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 705
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 1.000419 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0027 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.1013 0.0500 <= Xq < 0.2000
a21 = 1.11763 1.050 <= a21 < 1.300
a31 = 0.453616 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 12:41:36

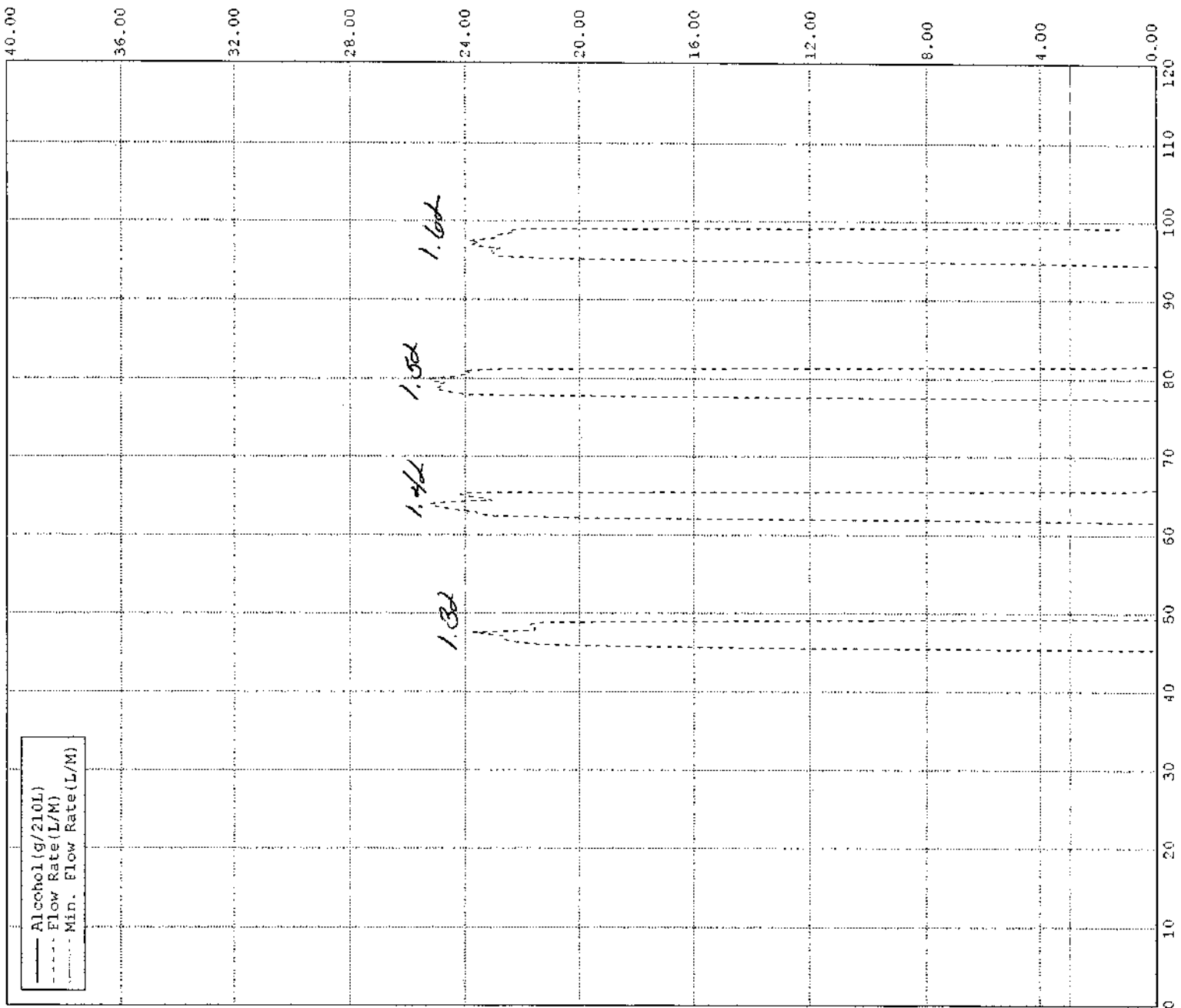
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 12:42
BLANK TEST 0.000 12:42
INTERNAL STANDARD VERIFIED 12:42
EXTERNAL STANDARD 0.079 12:43
BLANK TEST 0.000 12:44
SUBJECT SAMPLE (Vol=1.62L) 0.000 12:46
BLANK TEST 0.000 12:47
EXTERNAL STANDARD 0.082 12:47
BLANK TEST 0.000 12:48



LINEARITY CHECK

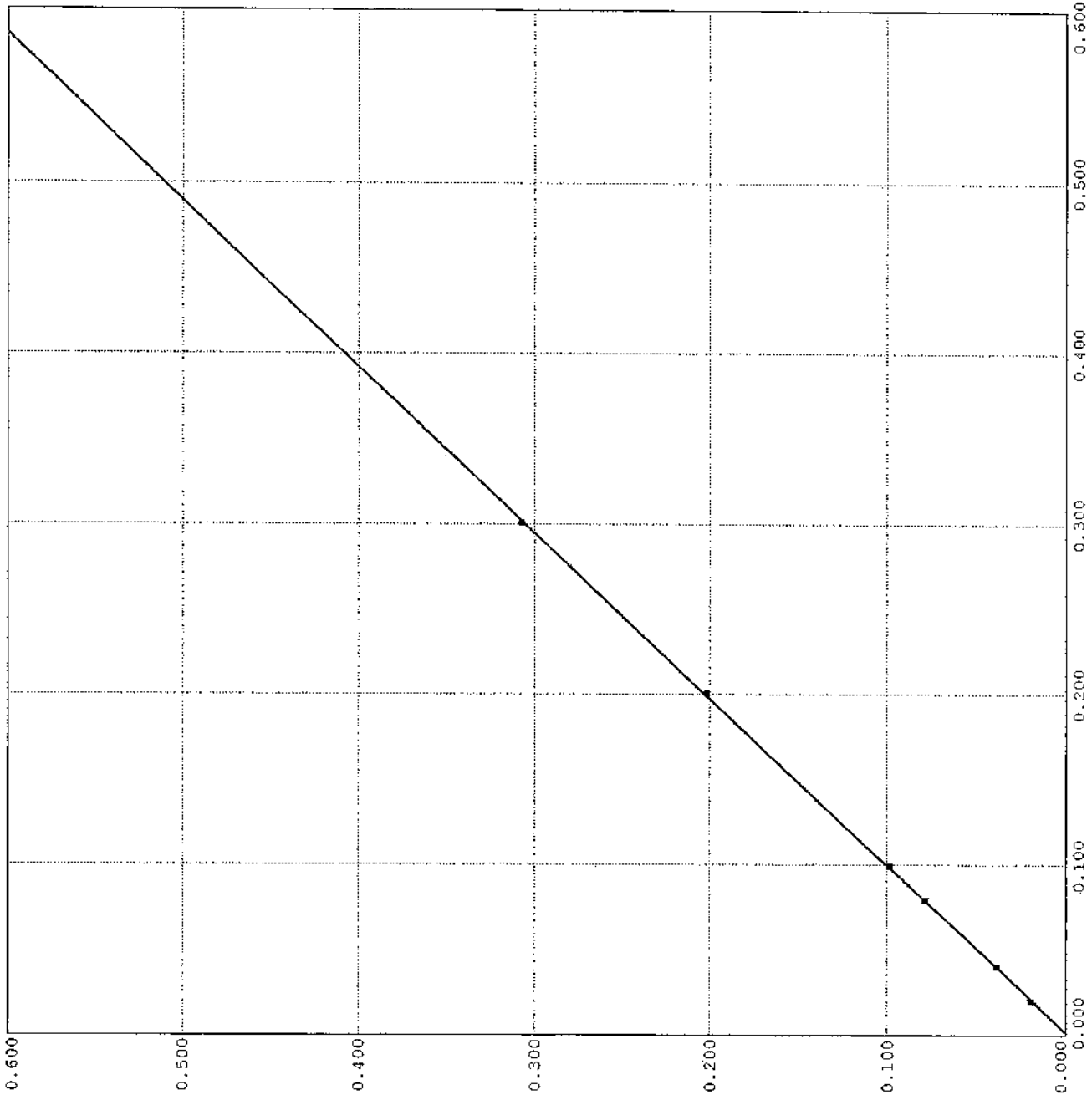
Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 05/04/2016
 Time: 13:04:56

SUPERVISOR NAME:
 COLLEEN S OBRZYANT
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.040	0.0398	0.0004
0.079	0.0798	0.0004
0.099	0.0994	0.0005
0.200	0.2024	0.0018
0.300	0.3080	0.0019

SLOPE = 1.026741
 R² = 0.999891



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

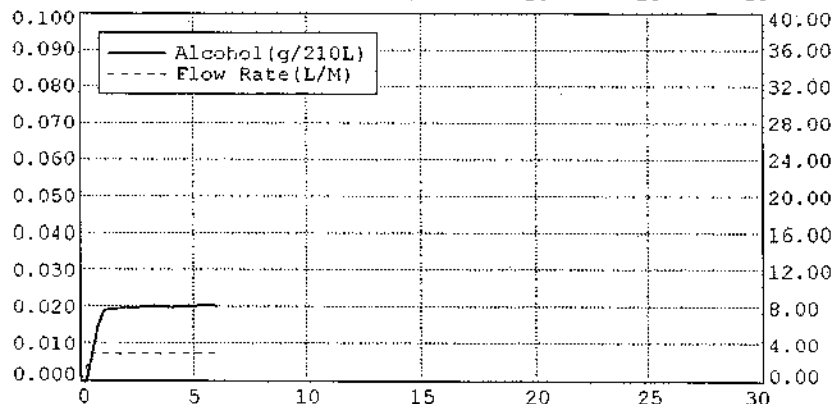
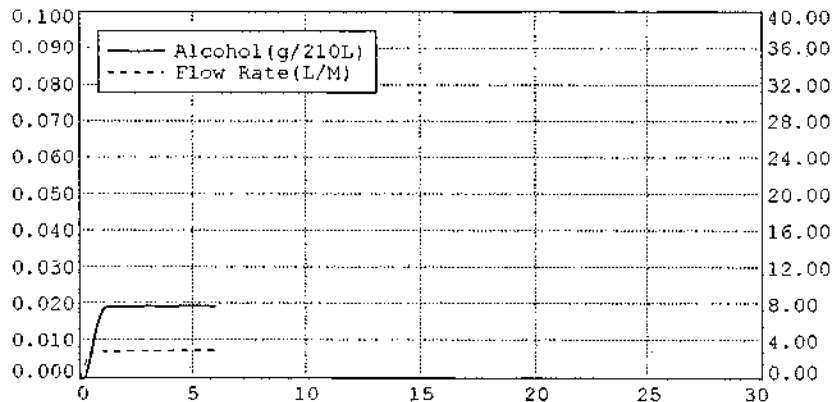
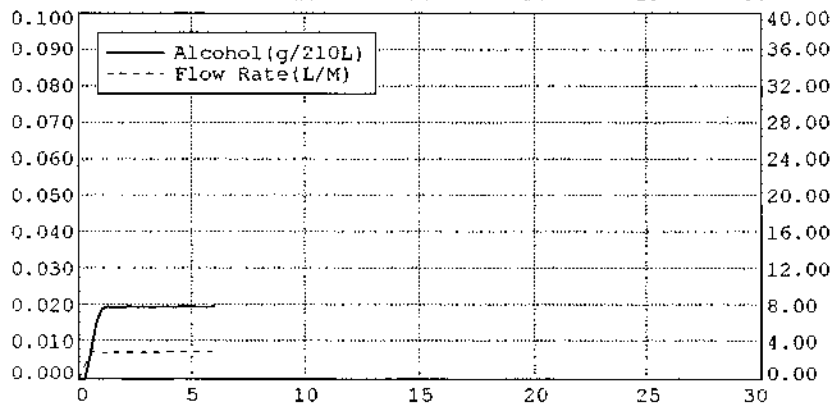
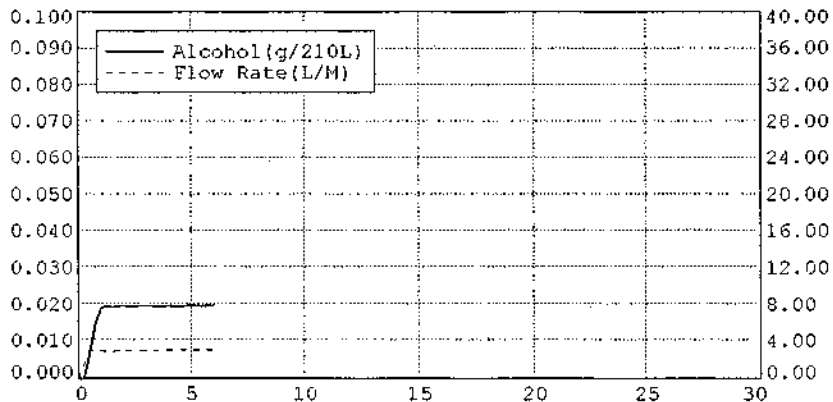
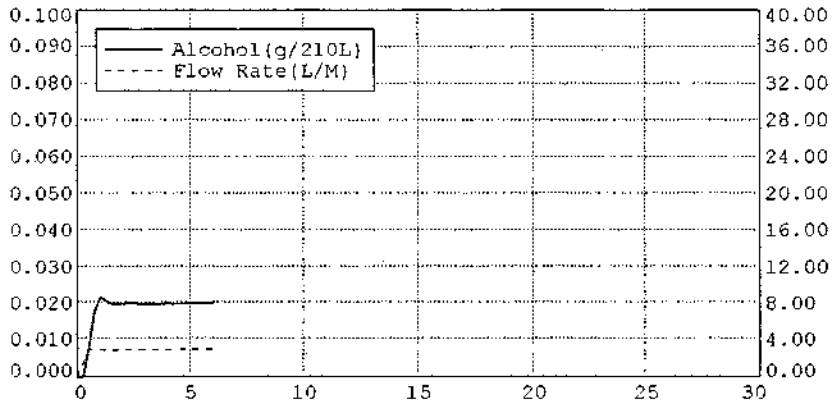
Date: 05/04/2016
 Time: 13:04:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.63: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 864 psi

BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
EXTERNAL STANDARD	0.021	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.020	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.020	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.020	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.021	13:11
BLANK TEST	0.000	13:11

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

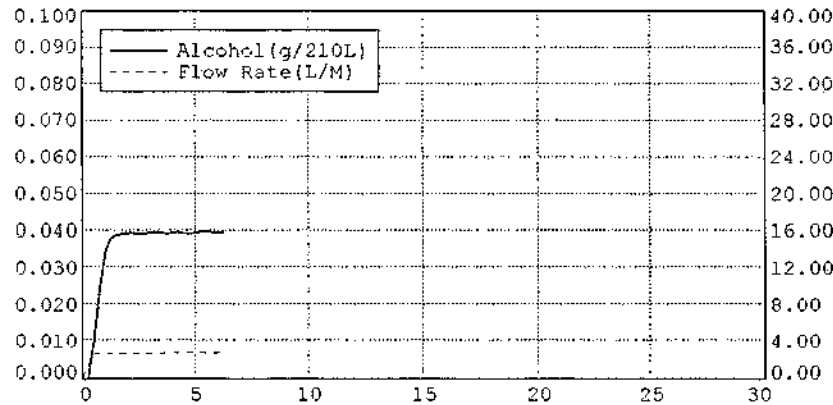
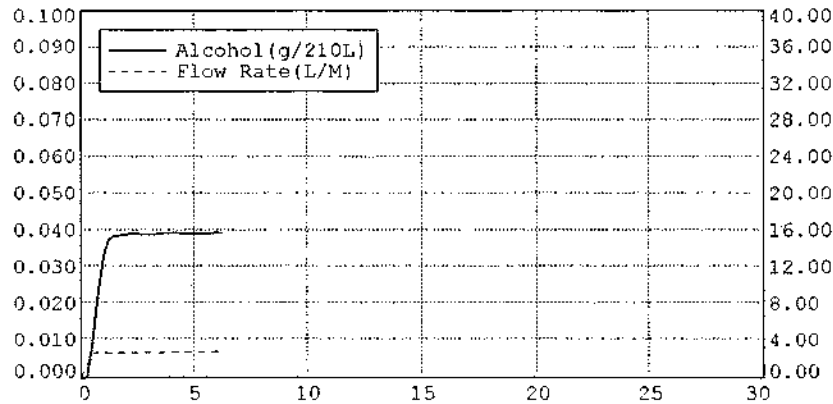
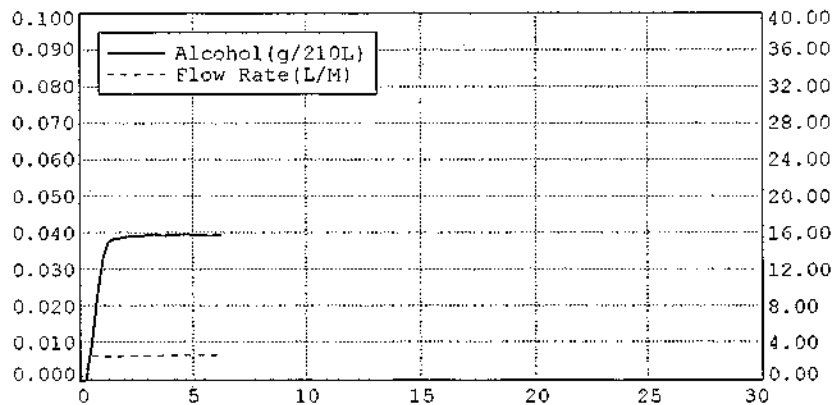
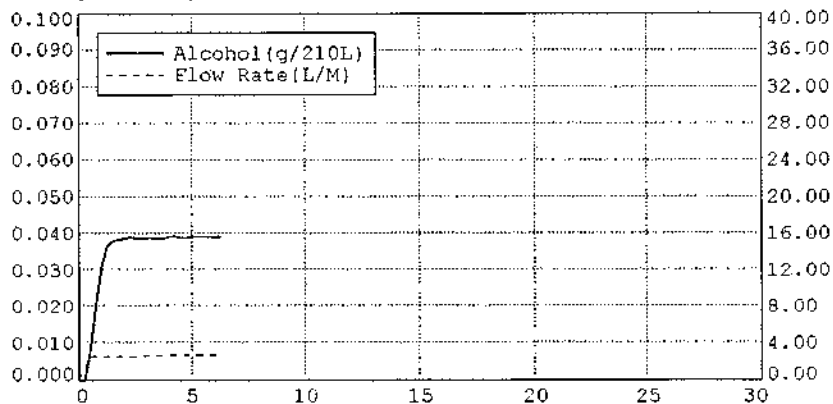
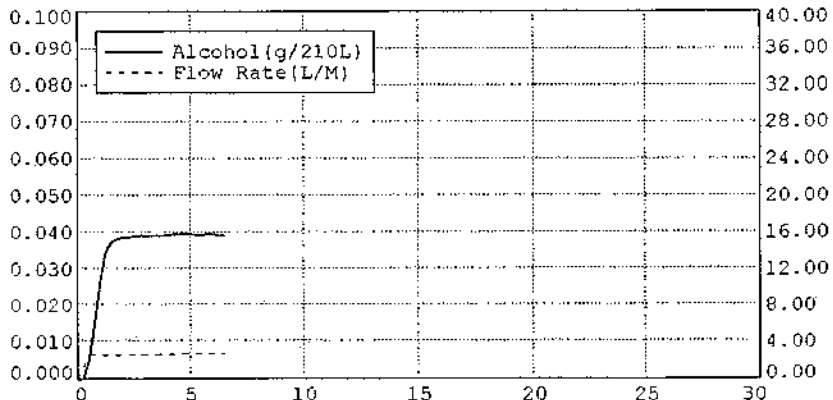
Date: 05/04/2016
 Time: 13:12:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.64: 0.040
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 337 psi

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.040	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.039	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.040	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.040	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.040	13:18
BLANK TEST	0.000	13:19

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

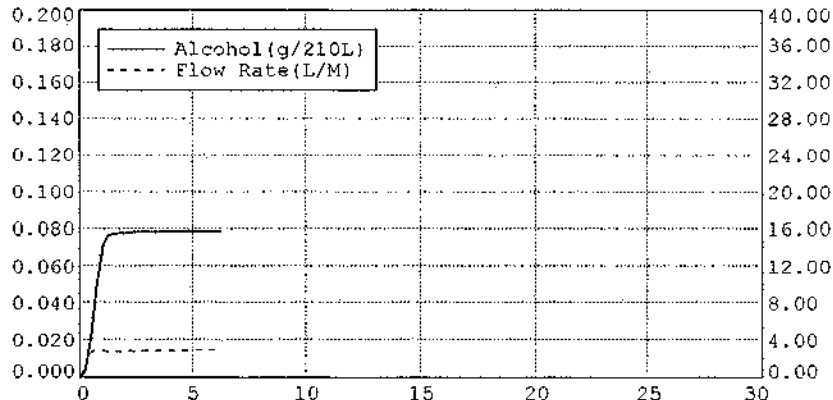
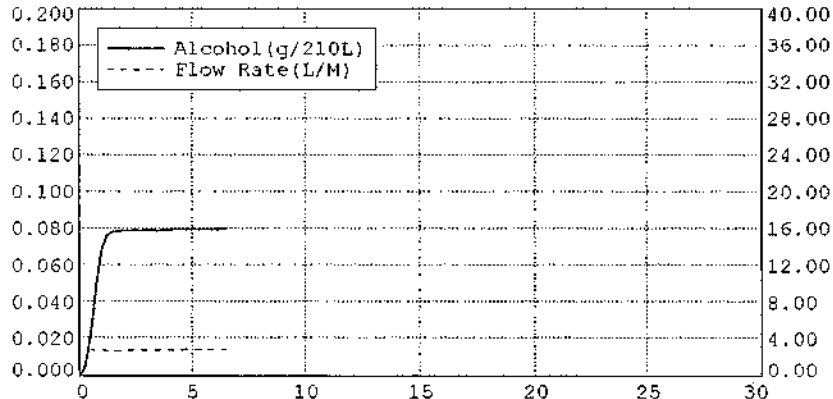
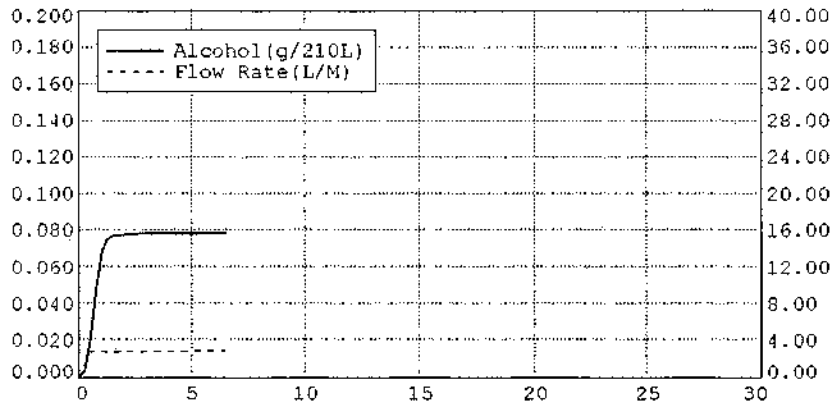
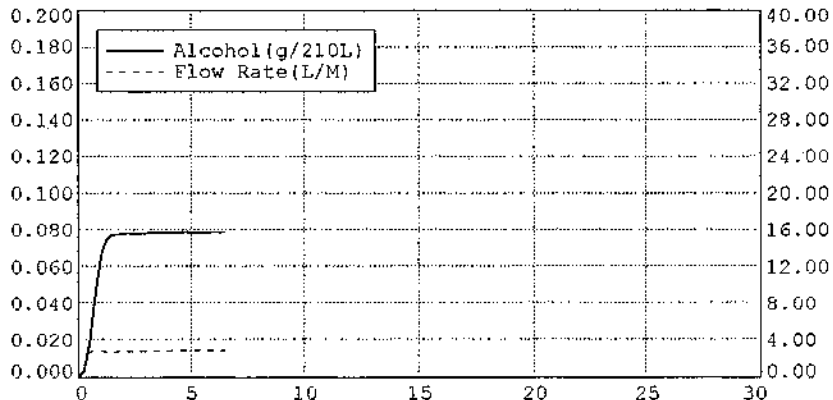
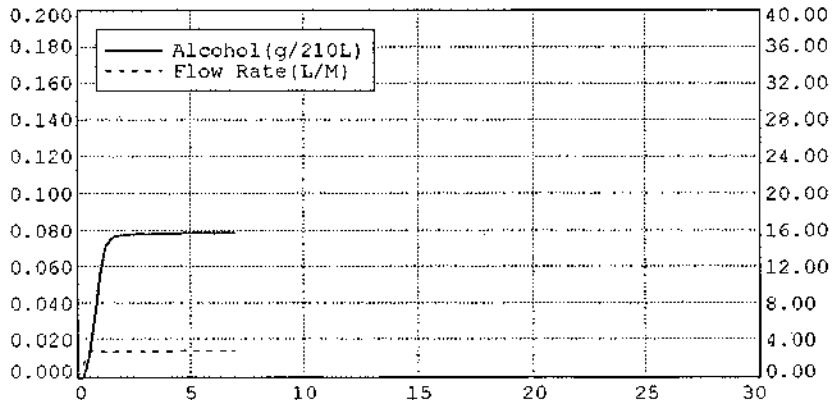
Date: 05/04/2016
 Time: 13:20:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: 01315080A2
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 648 psi

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.080	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.080	13:23
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.079	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.080	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.080	13:26
BLANK TEST	0.000	13:27

Average = 0.0798
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

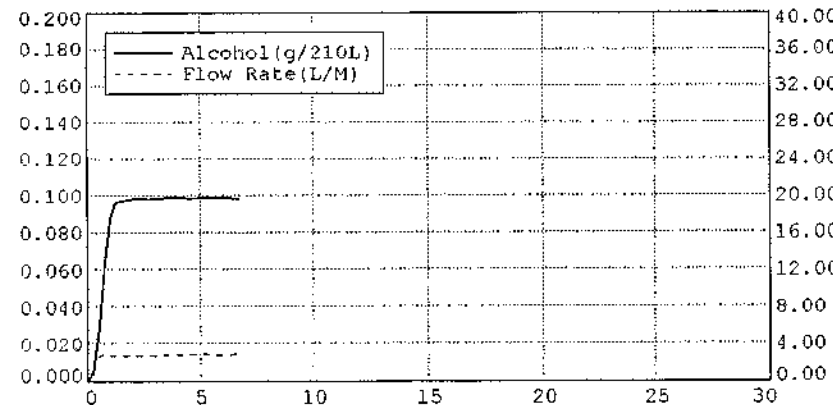
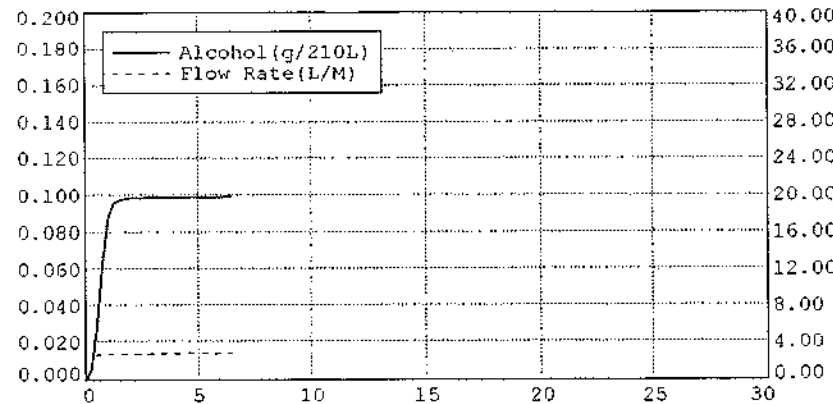
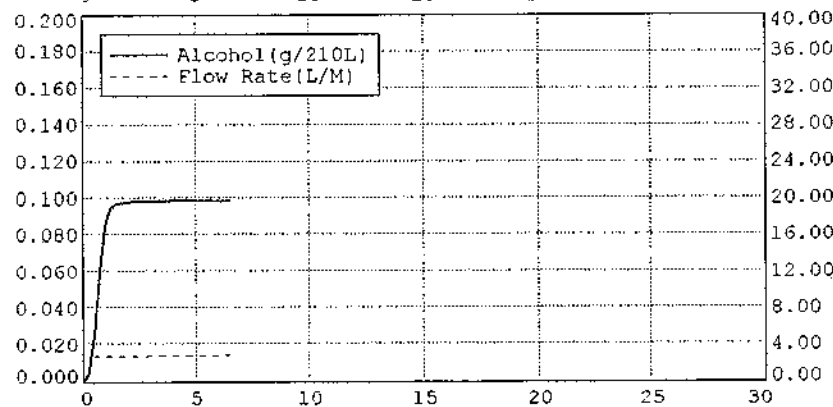
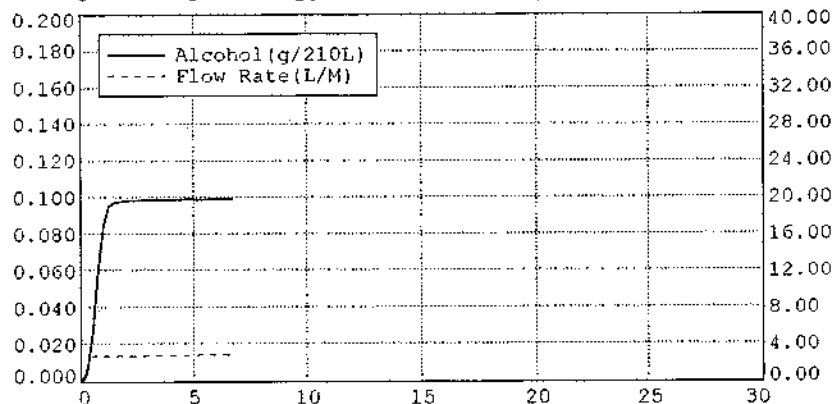
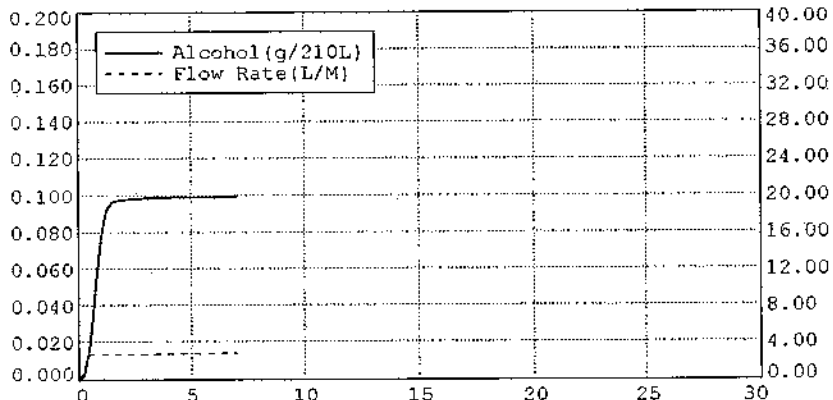
Date: 05/04/2016
 Time: 13:27:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.63: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 610 psi

BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.100	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.100	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.099	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.099	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.099	13:33
BLANK TEST	0.000	13:34

Average = 0.0994
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

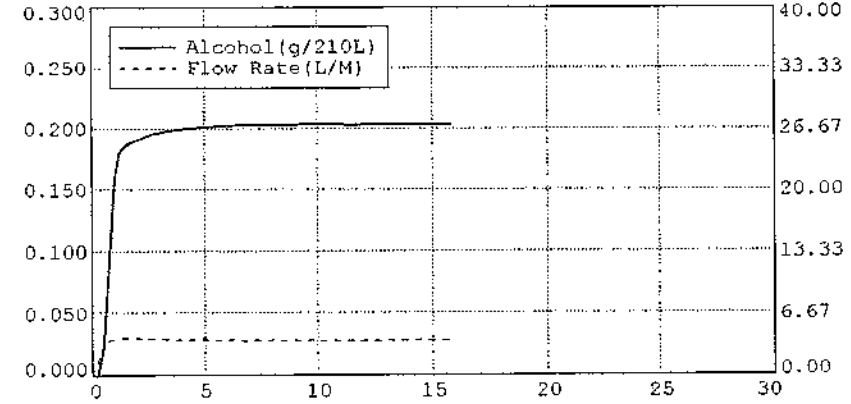
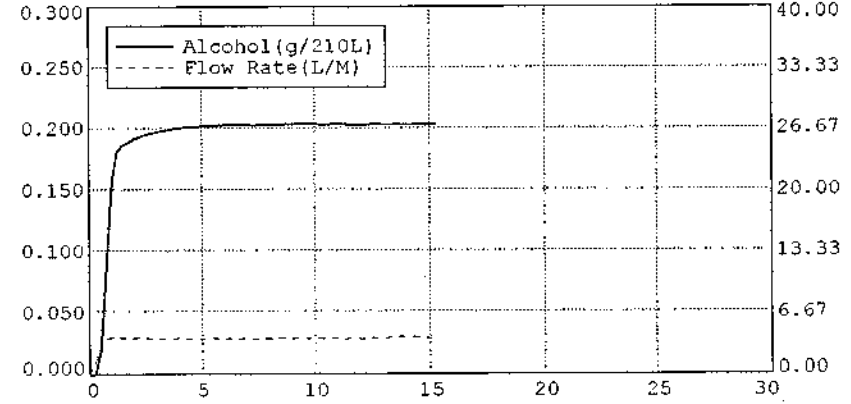
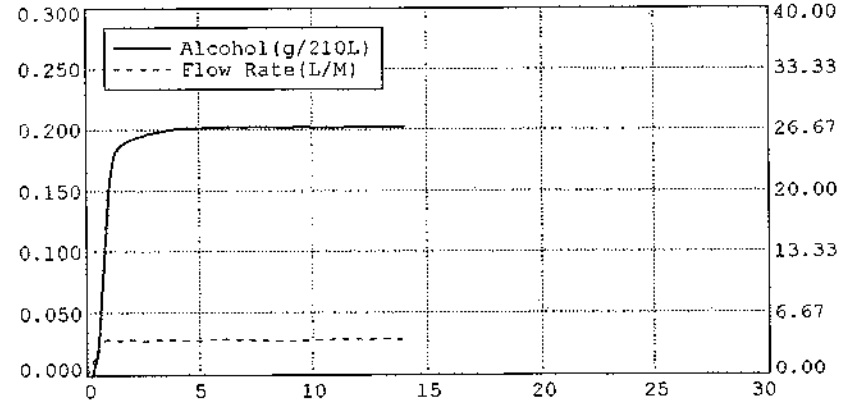
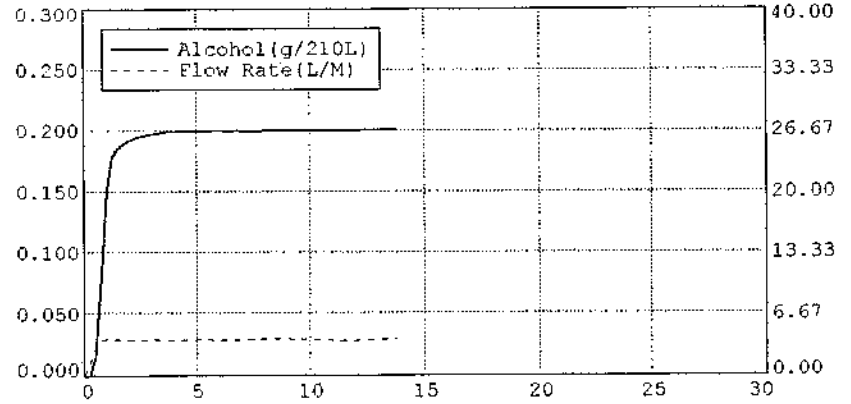
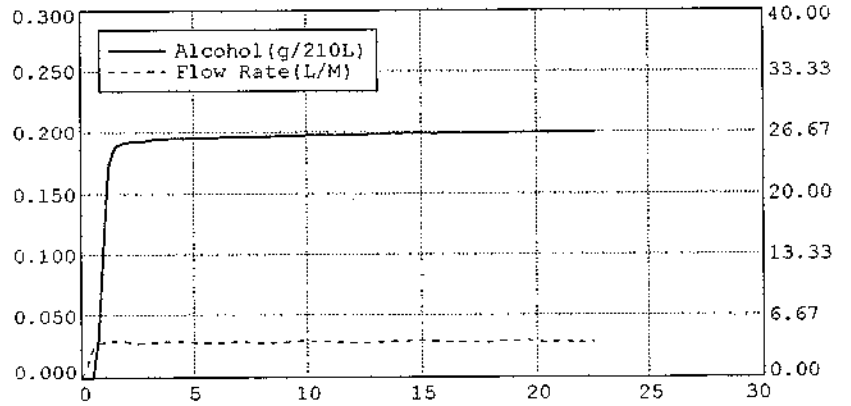
Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 05/04/2016
 Time: 13:38:54

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

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:40
EXTERNAL STANDARD	0.200	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.201	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.203	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.204	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.204	13:45
BLANK TEST	0.000	13:46

Average = 0.2024
 Std Dev = 0.0018



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

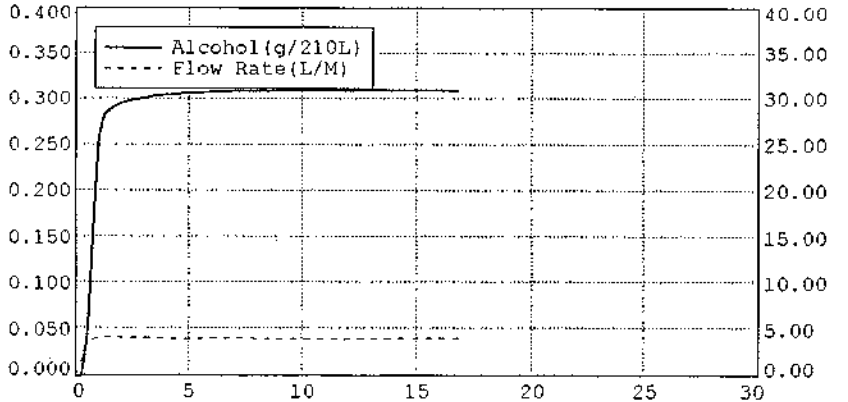
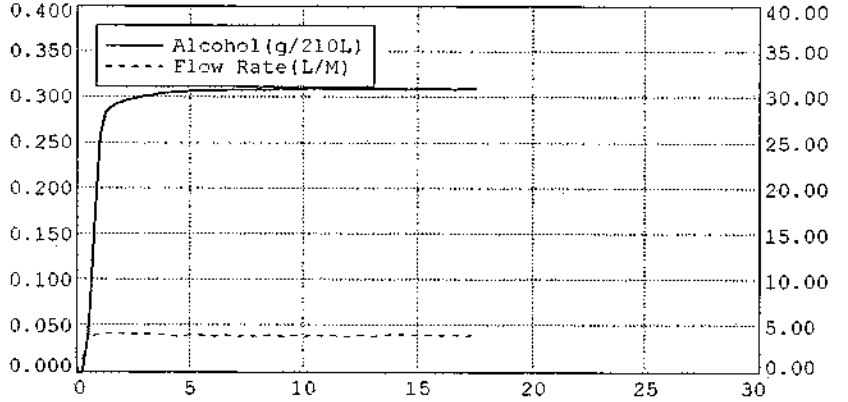
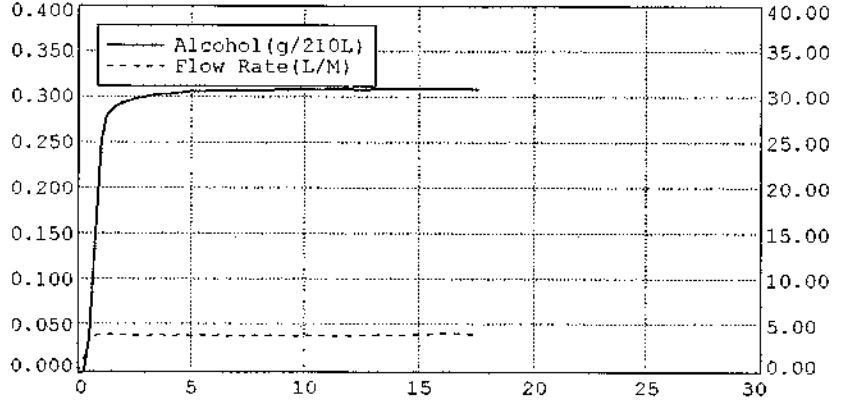
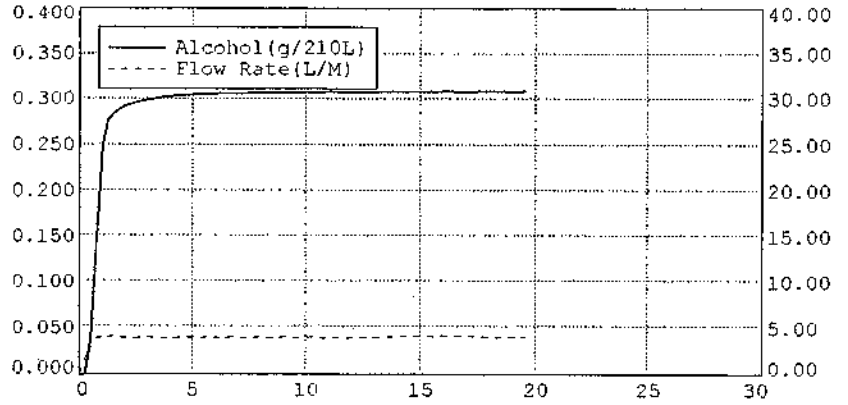
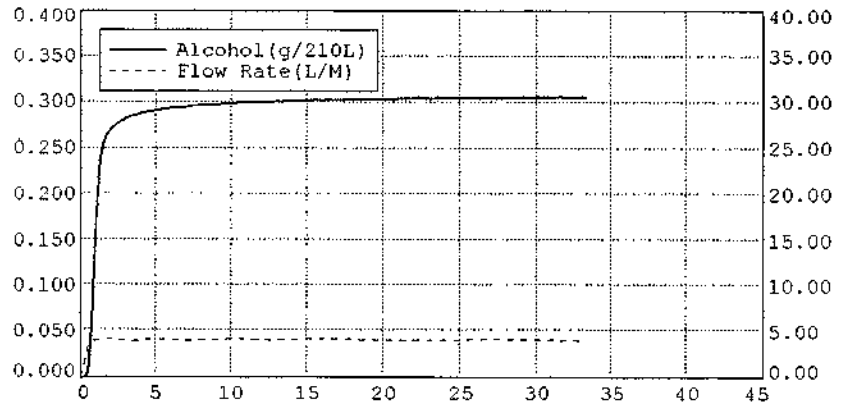
Date: 05/04/2016
 Time: 13:49:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 15170
 EXPIRATION: 07/20/2017

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.305	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.308	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.308	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.309	13:55
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.310	13:56
BLANK TEST	0.000	13:57

Average = 0.3080
 Std Dev = 0.0019



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 14:01:06

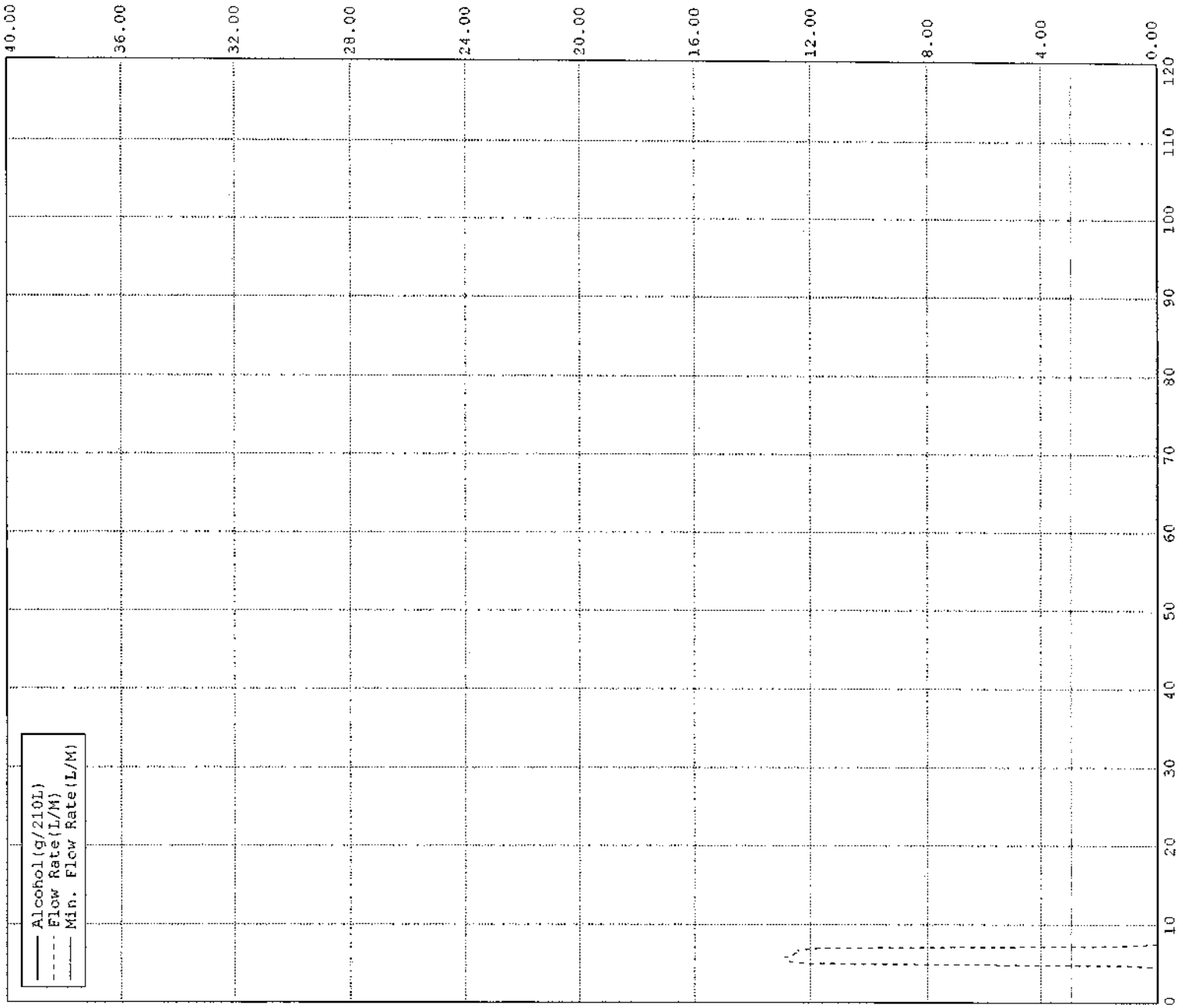
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 14:28
BLANK TEST 0.000 14:28
INTERNAL STANDARD VERIFIED 14:28
EXTERNAL STANDARD 0.079 14:28
BLANK TEST 0.000 14:29
SUBJECT SAMPLE INCOMPLETE 14:31



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 14:33:10

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

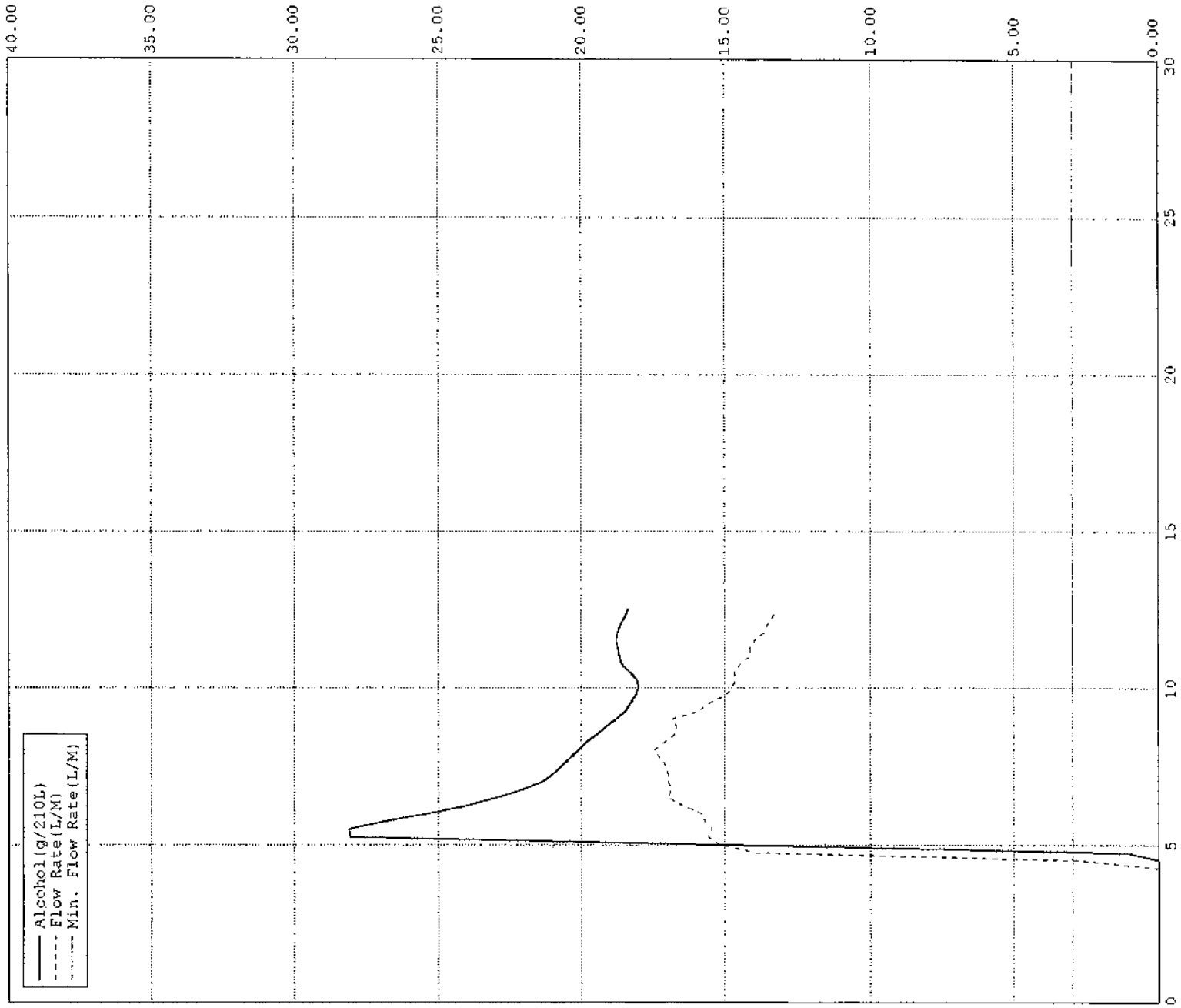
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.079	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	INVALID	14:36

OB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 14:40:45

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

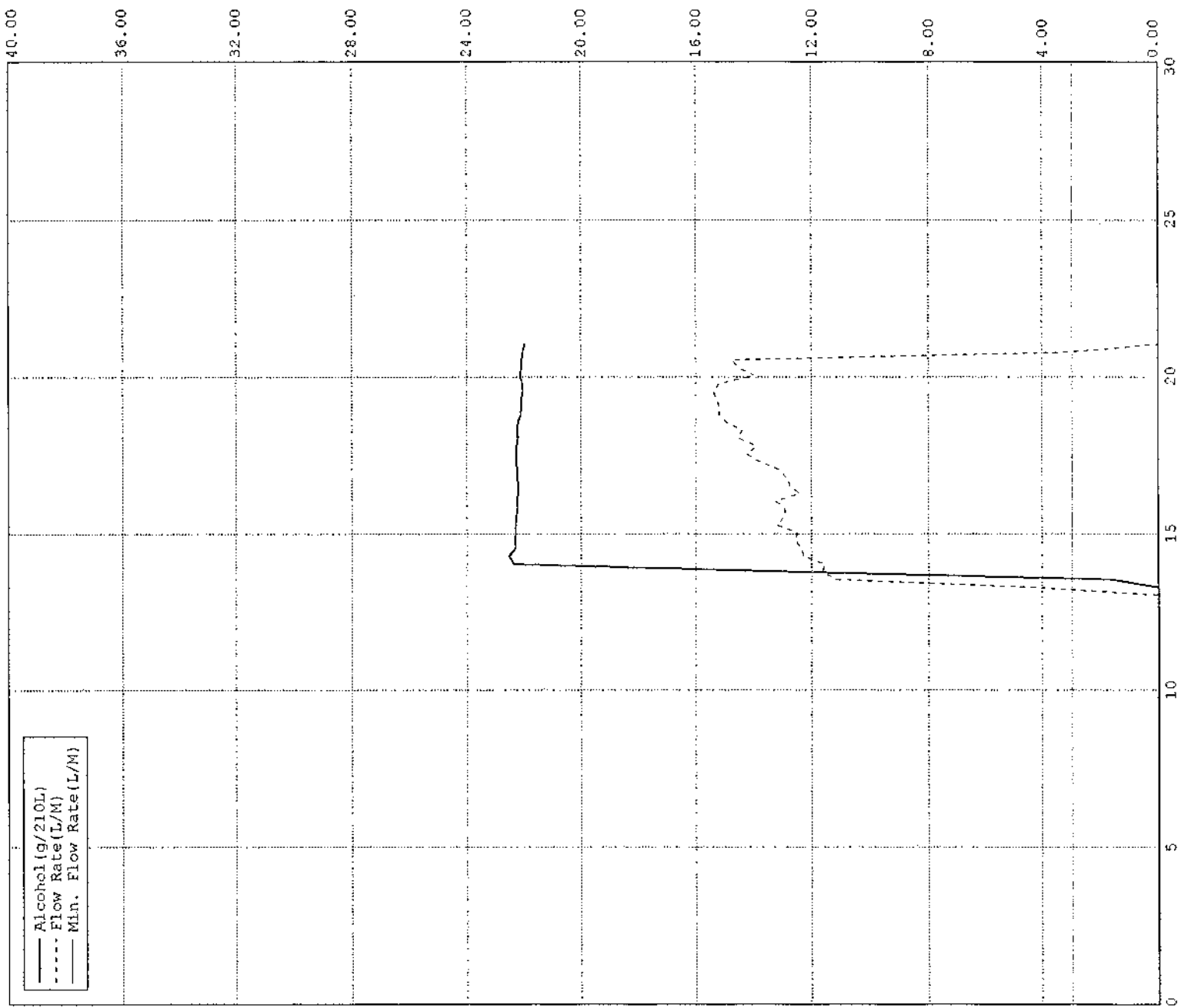
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 14:42
BLANK TEST 0.000 14:42
INTERNAL STANDARD VERIFIED 14:42
Xq = 0.103 (1.21%)
EXTERNAL STANDARD 0.080 14:43
X[1] = 0.0797 (0.0012) (0.0026)
BLANK TEST 0.000 14:43
SUBJECT SAMPLE XXX 14:44
X[1] = 0.1098 (-0.0203) (0.0007)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/04/2016
Time: 14:47:15

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1

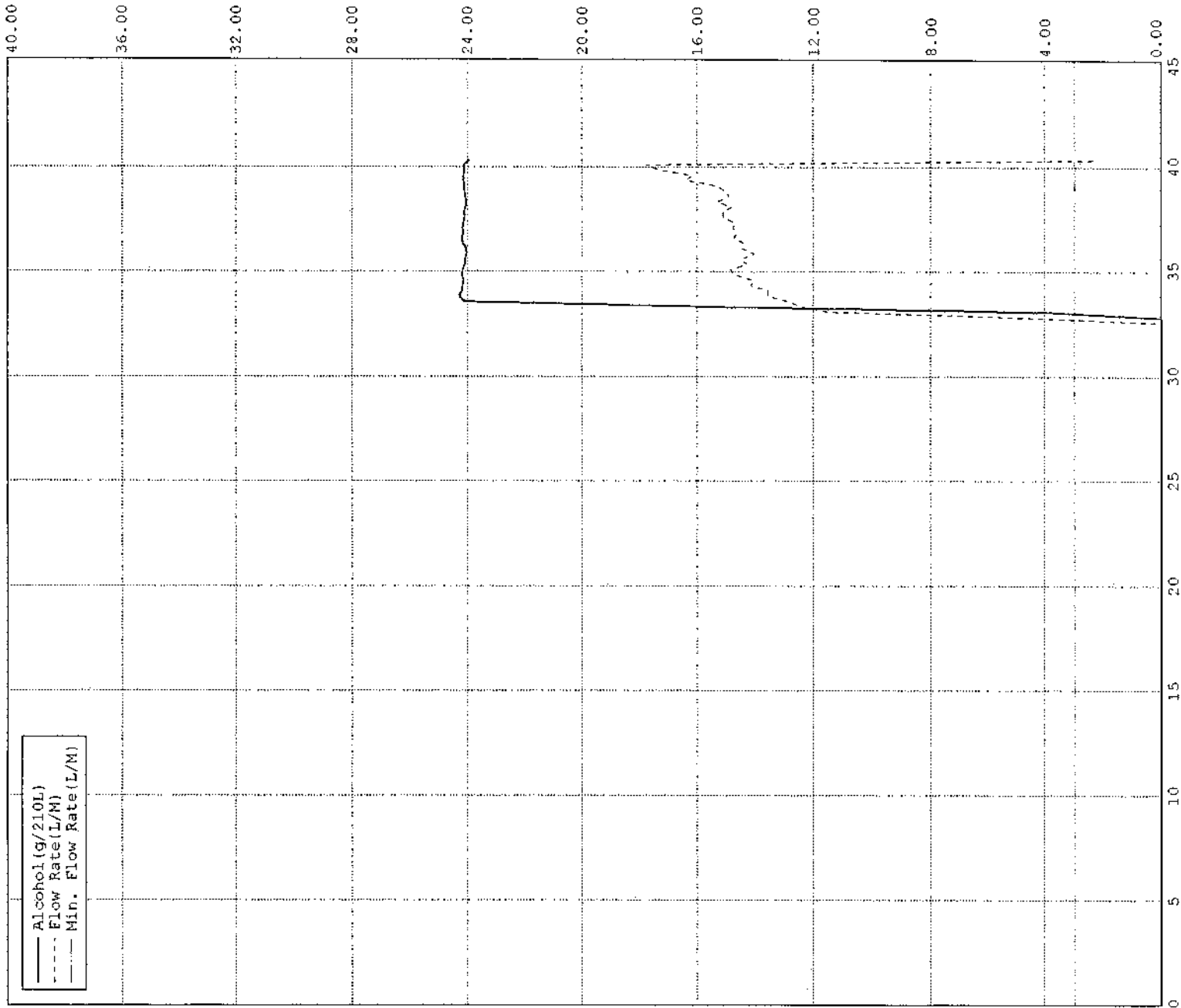
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:48
BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
xq = 0.102 (1.13%)		
EXTERNAL STANDARD	0.080	14:48
X[1] = 0.0796 (0.0001) (0.0022)		
BLANK TEST	0.000	14:49
SUBJECT SAMPLE	XXX	14:50
X[1] = 0.1185 (-0.0209) (0.0024)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100421

Date: 05/04/2016
 Time: 14:53:50

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 16-1234
 TEST TYPE: TEST

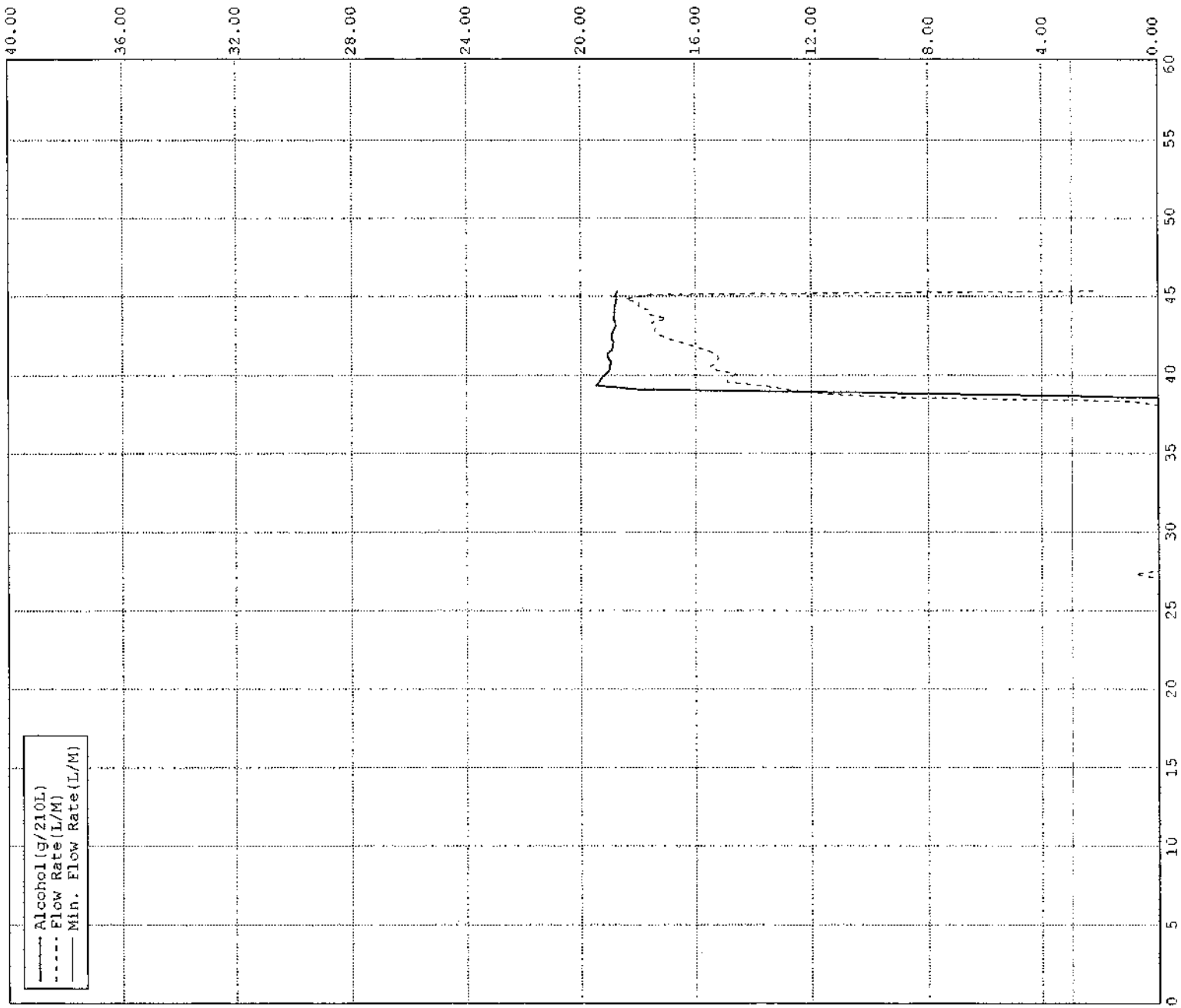
EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 01315080A2
 EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:54
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xq = 0.102 (0.43%)		
EXTERNAL STANDARD	0.079	14:55
X[1] = 0.0787 (-0.0004)	(0.0021)	
BLANK TEST	0.000	14:56
SUBJECT SAMPLE (Vol=1.78L)	0.093	14:57
X[1] = 0.0930 (-0.0009)	(0.0011)	
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.079	14:58
X[1] = 0.0790 (0.0000)	(0.0019)	
BLANK TEST	0.000	14:59

Filter 3 avg = 0.0022
possible

Filter 2 avg = 0.0002
possible

MSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/05/2016
Time: 10:24:17

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 16-1234
TEST TYPE: TEST

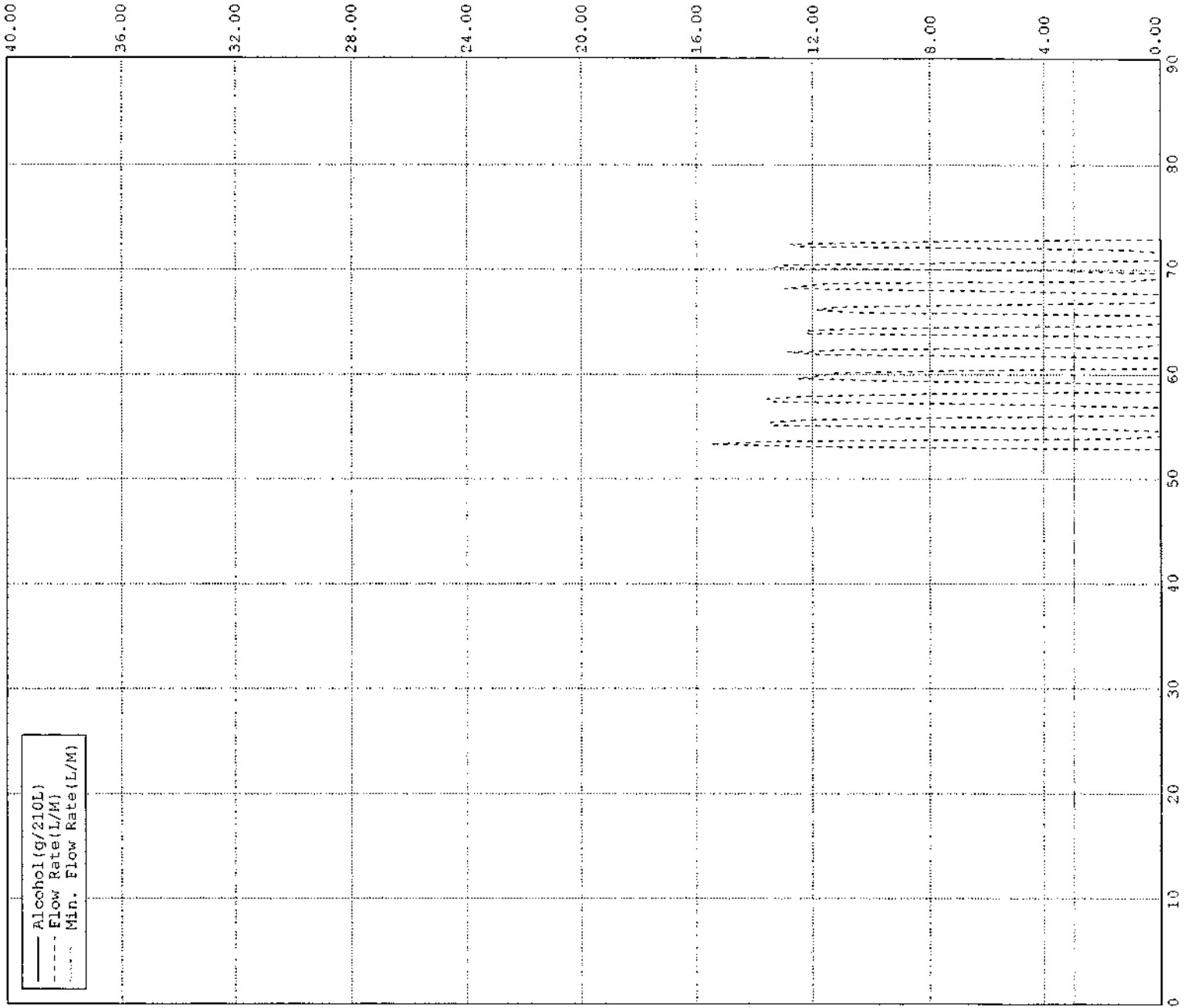
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:25
BLANK TEST 0.000 10:25
INTERNAL STANDARD VERIFIED 10:25
EXTERNAL STANDARD 0.080 10:25
BLANK TEST 0.000 10:26
SUBJECT SAMPLE XXX 10:28

Maximum Attempts Exceeded

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/05/2016
Time: 10:31:00

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

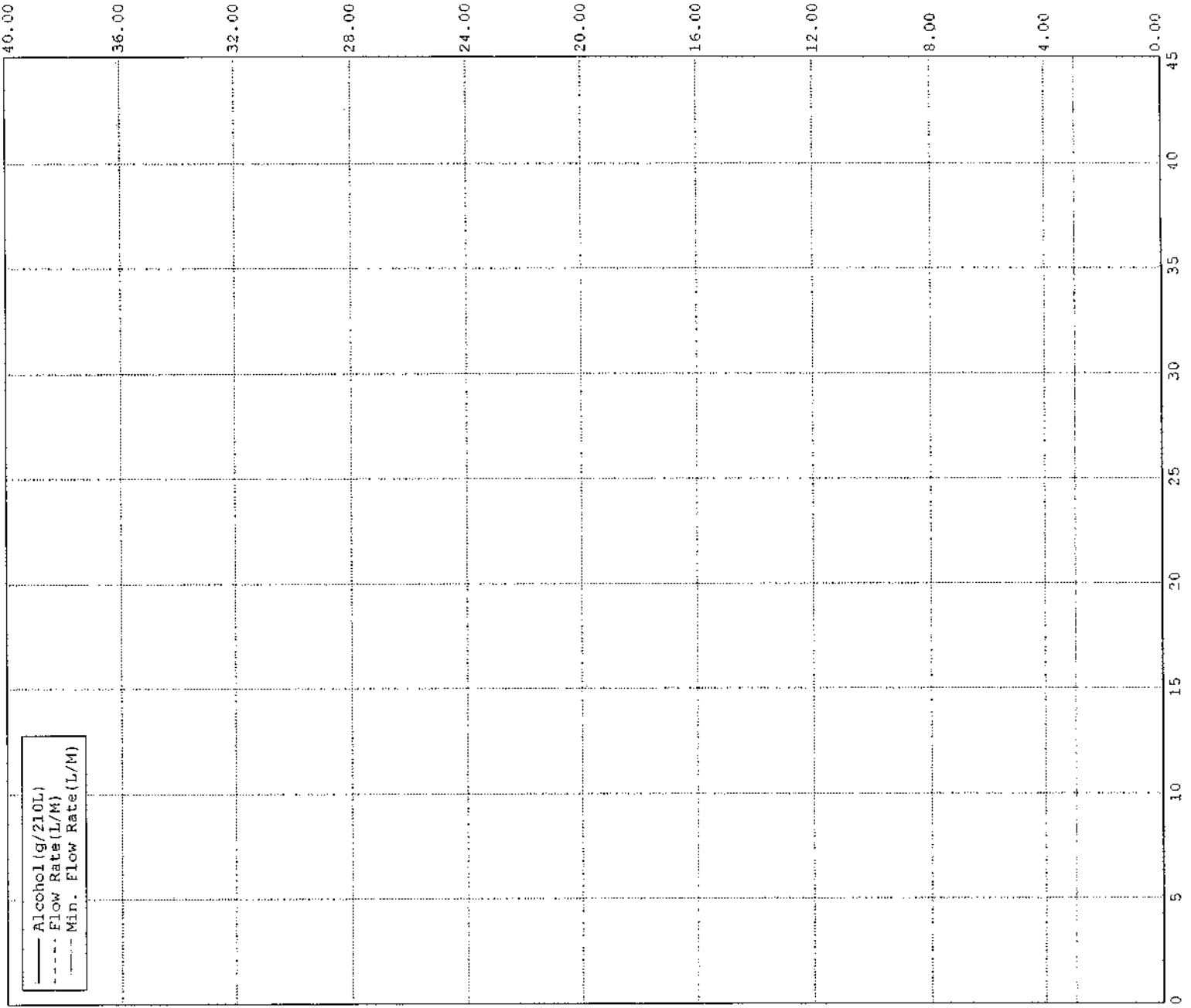
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:37
BLANK TEST 0.000 10:37
INTERNAL STANDARD VERIFIED 10:37
EXTERNAL STANDARD 0.079 10:37
BLANK TEST 0.000 10:38

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 05/05/2016
Time: 10:54:38

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:56
BLANK TEST 0.000 10:56
INTERNAL STANDARD VERIFIED 10:56
EXTERNAL STANDARD 0.079 10:56
BLANK TEST 0.000 10:57
SUBJECT SAMPLE (Vol=1.63L) 0.000 10:58
BLANK TEST 0.000 10:59
EXTERNAL STANDARD 0.079 11:00
BLANK TEST 0.000 11:00

