

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 100376 Analyst C. O. Bryant Start Date 12/7/17

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 Alugas Lot AG60160204 Exp 6/13/18
- ii. 0.040g/210L Mnf Alugas Lot AG6030101 Exp 10/27/18
- iii. 0.080g/210L Mnf Alugas Lot AG6034001 Exp 12/5/18
- iv. 0.100g/210L Mnf Alugas Lot AG6039804 Exp 10/19/18
- v. 0.200g/210L Mnf Guth Lot 17090 Exp 2/24/19
 - 1. Simulator S/N DR1200 Date Calibrated 3/29/17
- vi. 0.300g/210L Mnf Guth Lot 17140 Exp 5/15/19
 - 1. Simulator S/N DR4162 Date Calibrated 3/27/17

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- d. Exceeded attempts

i. Acetone - Mnf Guth Lot 16160 Level 0.100 Exp 7/19/18

1. Simulator S/N DR4178 Date Calibrated 3/27/17

ii. Isopropanol - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1176 Date Calibrated 3/29/17

iii. Negative Control - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N DR4177 Date Calibrated 3/28/17

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 12/7/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 07:44:48

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.62 V PASSED
(0.98 V - 2.30 V)
Cooler Voltage = 1.61 V PASSED
(0.98 V - 2.28 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.262 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 PASSED

Xq = 0.076 1.34% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 7:52 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 47.9°C

Current Barometer 29.4 in
Volume (Ltr) 1.58

Settings

Lamp: 1.62 V
Bias: 80 V
Cooler: 1.56 V
Chopper: 531 Hz

Voltages (V)

Flow: 1.06 V
Detector: -0.073 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/02/2011
Time: 16:04:33

Ca = 0.1000
CAL = 0.982831 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0041 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0775 0.0500 <= Xq < 0.2000
a21 = 1.184234 1.050 <= a21 < 1.300
a31 = 0.361160 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 07:53:31

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

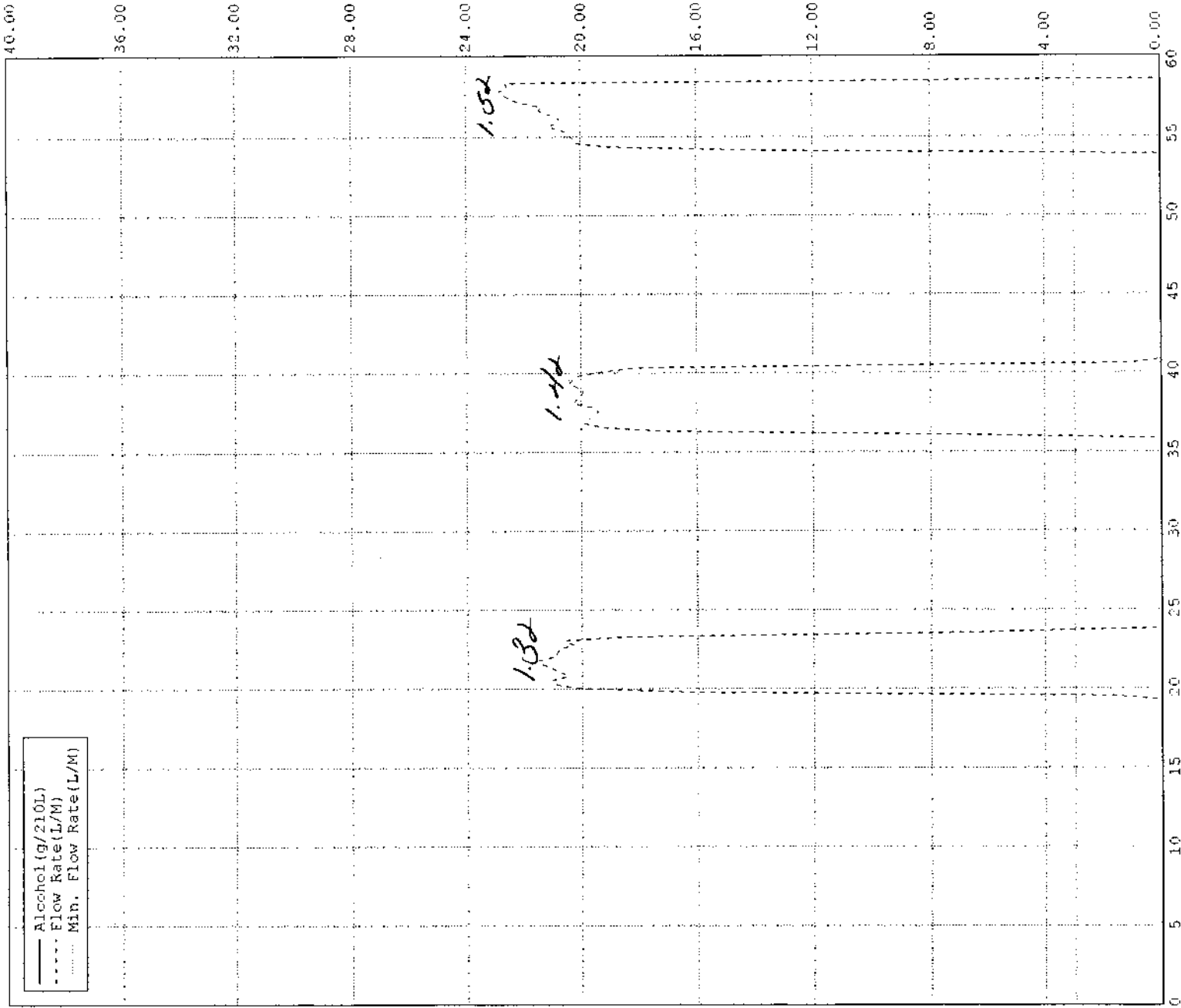
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.37: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	07:55
BLANK TEST	0.000	07:55
INTERNAL STANDARD	VERIFIED	07:55
INTERNAL STANDARD	0.078	07:55
BLANK TEST	0.000	07:56
SUBJECT SAMPLE (Vol=1.57L)	0.000	07:57
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.078	07:58
BLANK TEST	0.000	07:59



LINEARITY CHECK

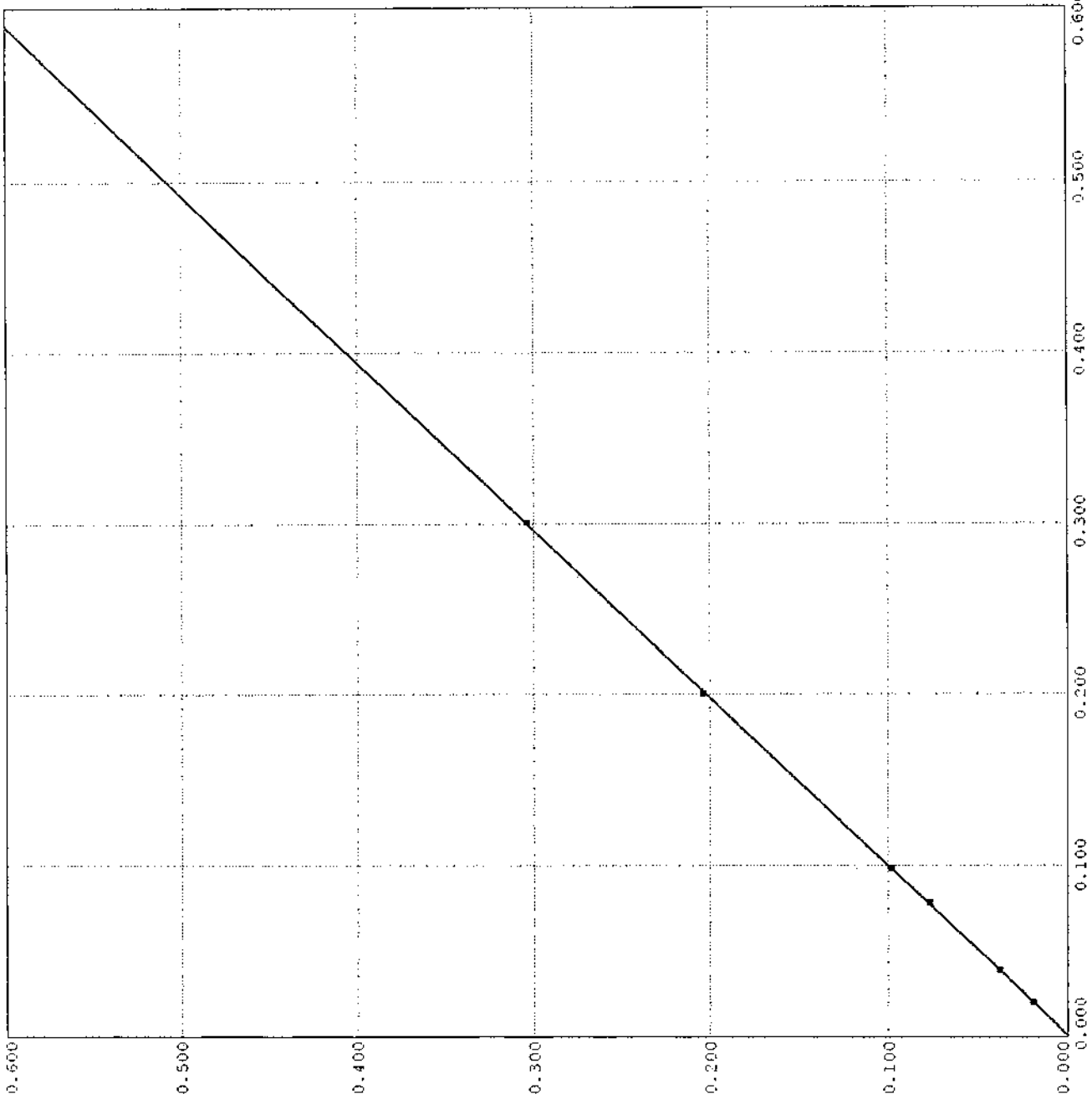
 Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 12/07/2017
 Time: 10:31:34

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0390	0.0000
0.078	0.0780	0.0000
0.098	0.0990	0.0000
0.200	0.2048	0.0008
0.300	0.3046	0.0005

SLOPE = 1.019862
 R² = 0.999937



CSB

LINEARITY CHECK: Control Test 1

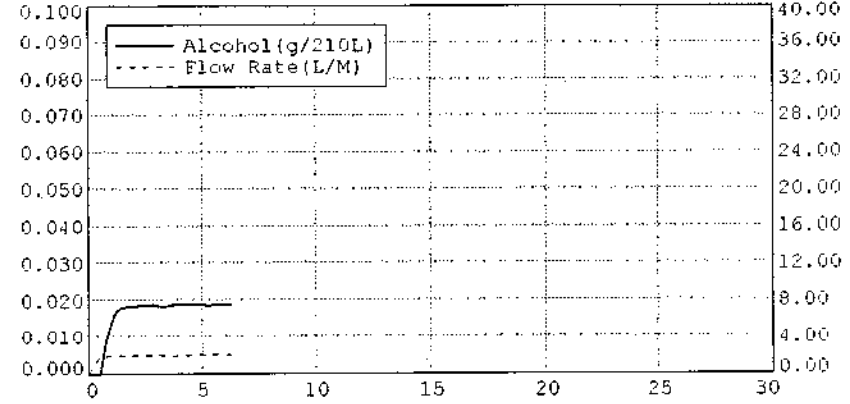
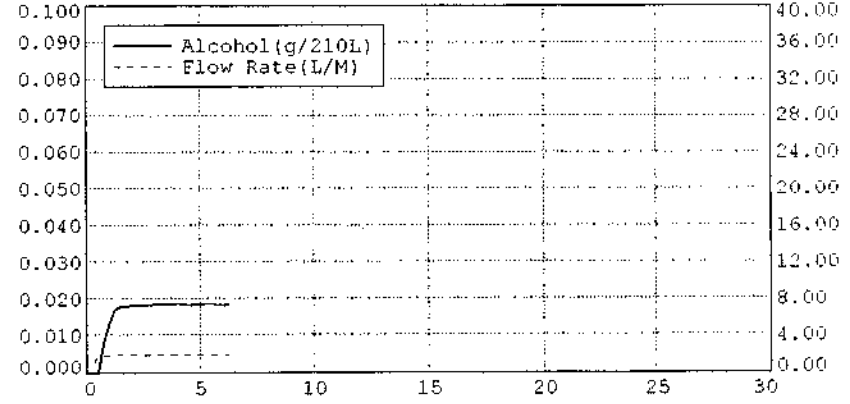
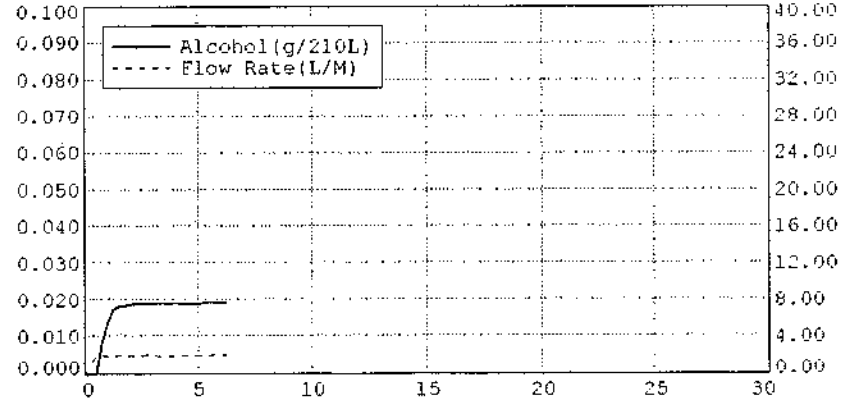
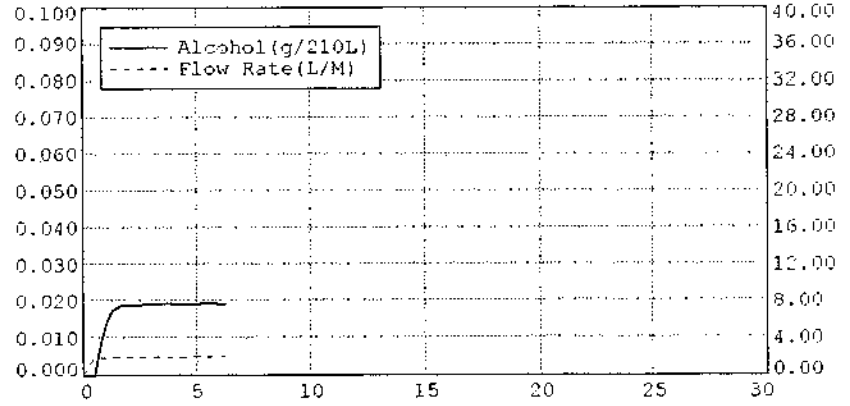
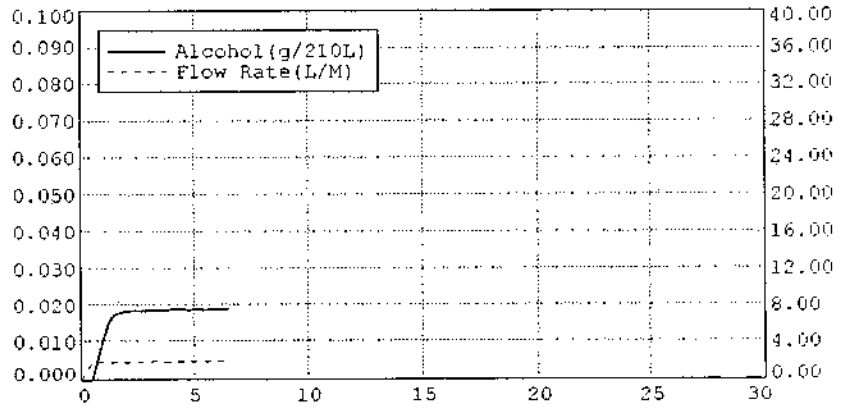
Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 12/07/2017
 Time: 10:31:36

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.35: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 442 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.020	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.021	10:42
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.020	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.020	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.020	10:45
BLANK TEST	0.000	10:46

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

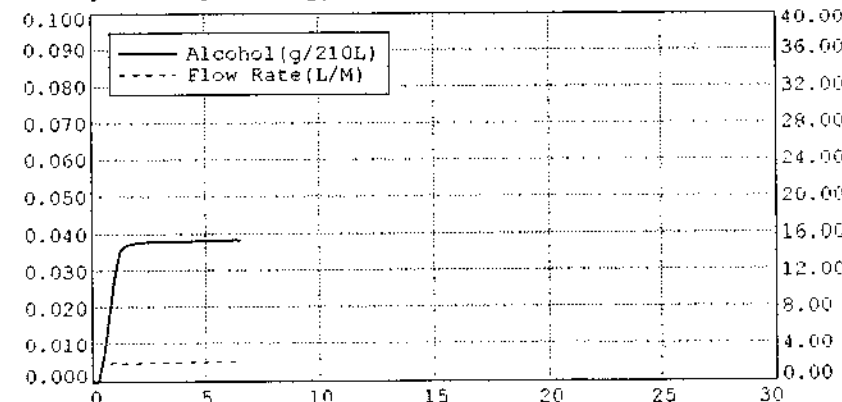
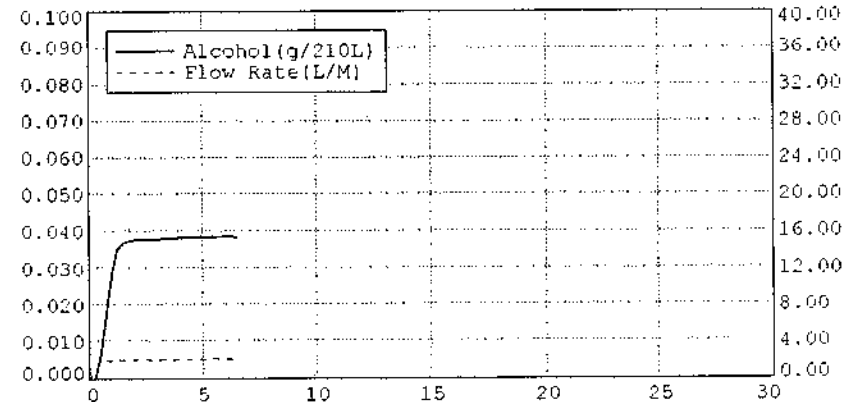
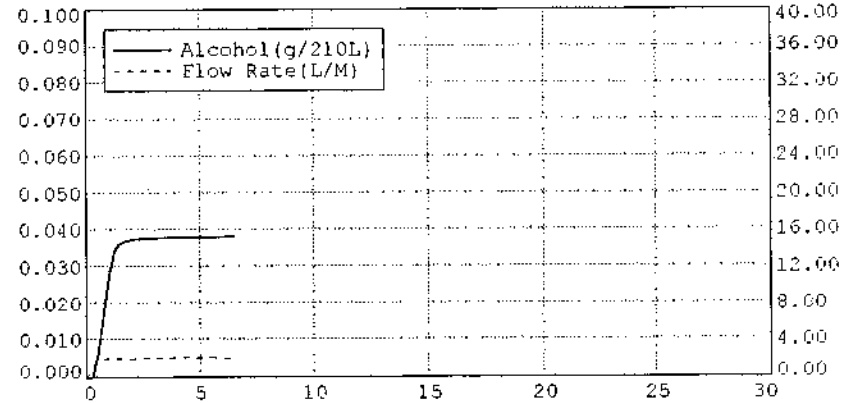
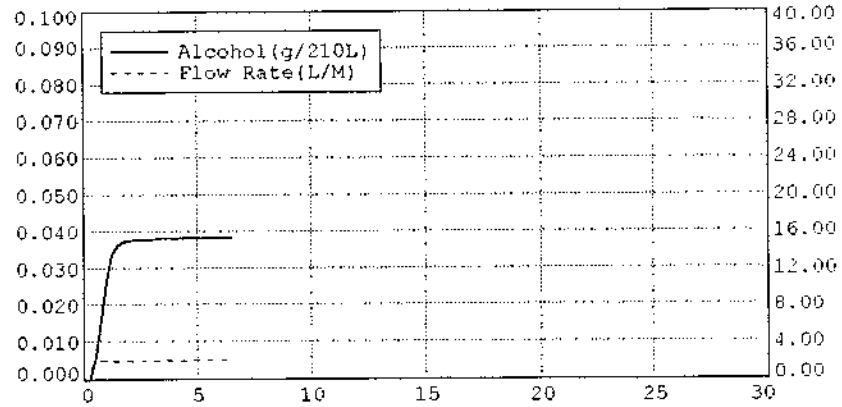
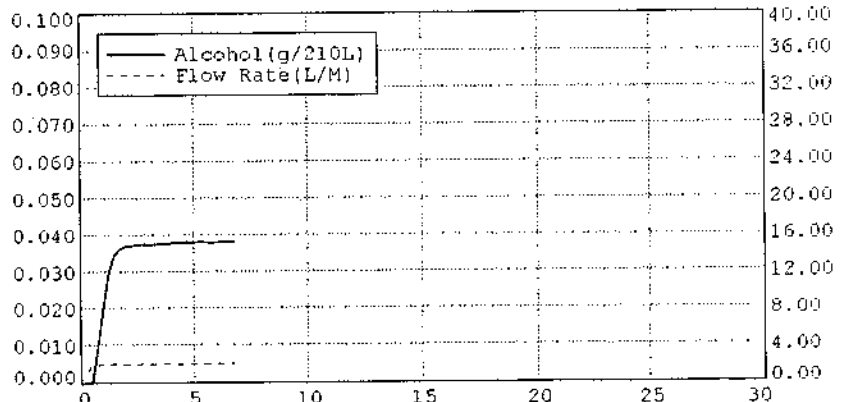
Date: 12/07/2017
 Time: 10:46:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.34: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 523 psi

BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.039	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.039	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.039	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.039	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.039	10:53
BLANK TEST	0.000	10:54

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

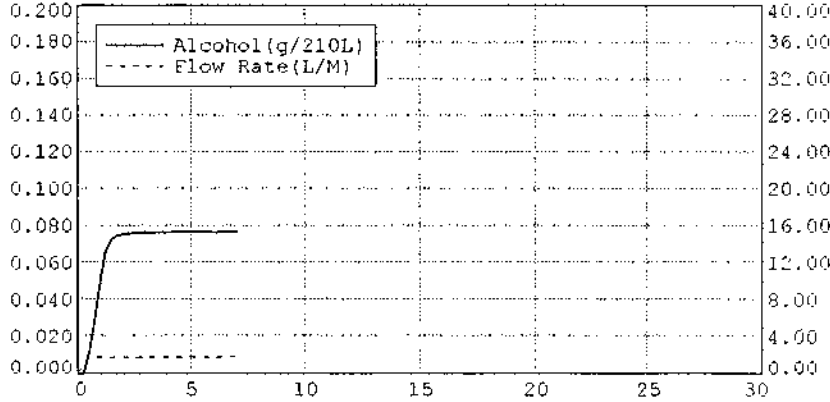
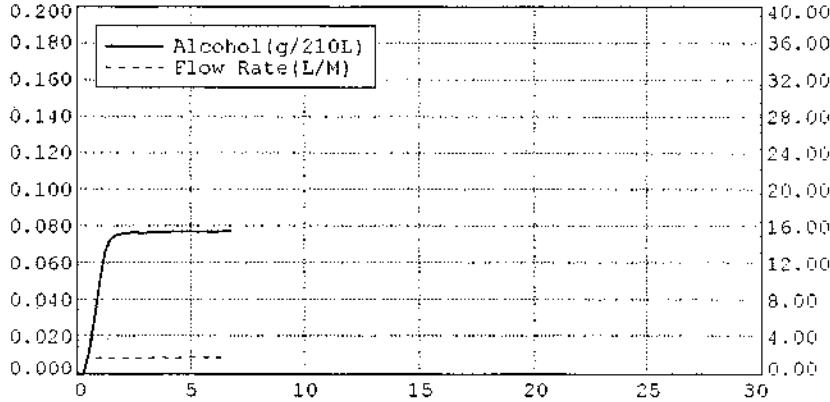
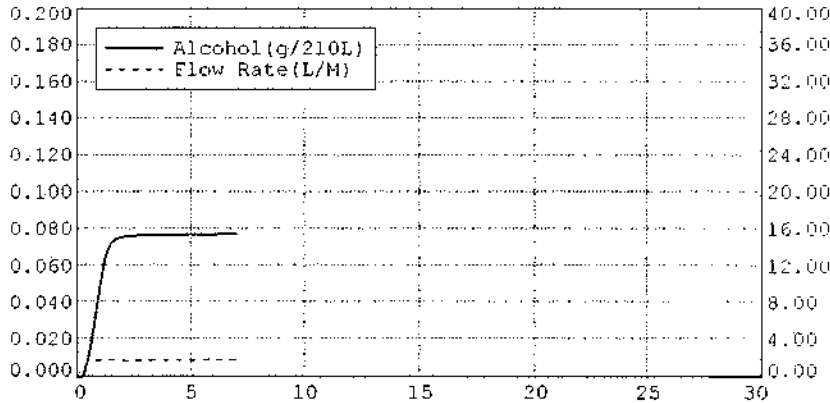
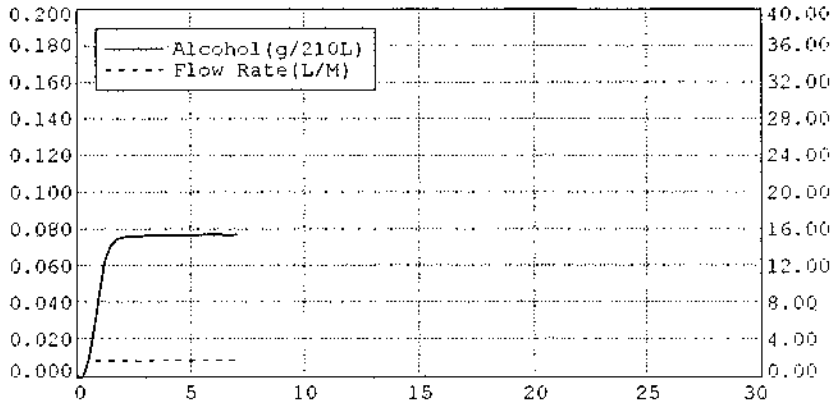
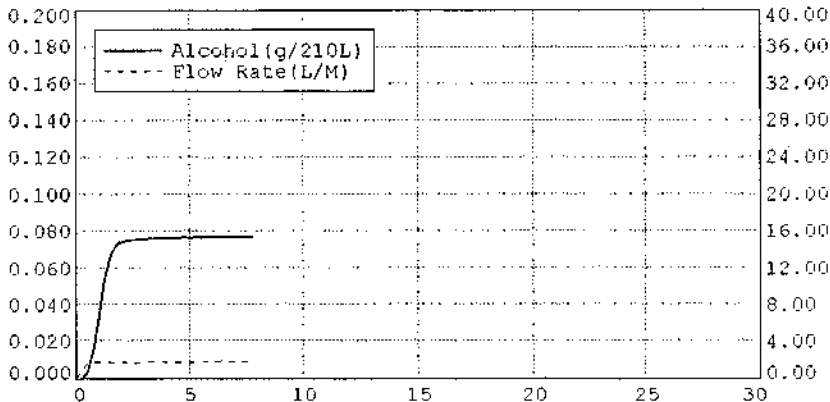
Date: 12/07/2017
 Time: 10:55:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 283 psi

BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
EXTERNAL STANDARD	0.078	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.078	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.078	10:59
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.078	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.078	11:01
BLANK TEST	0.000	11:02

Average = 0.0780
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

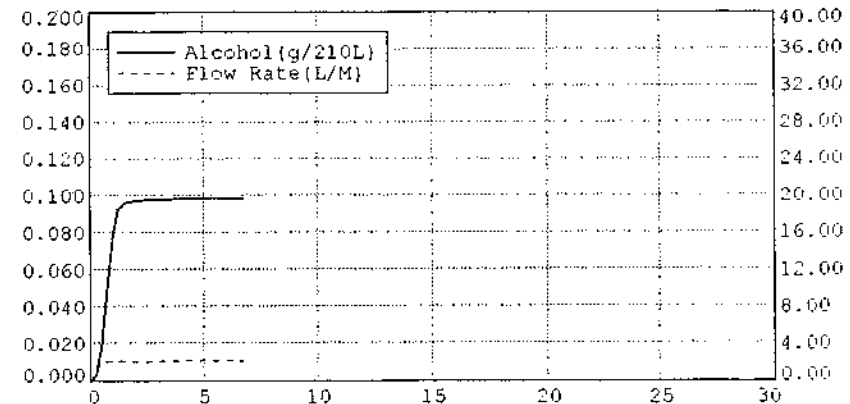
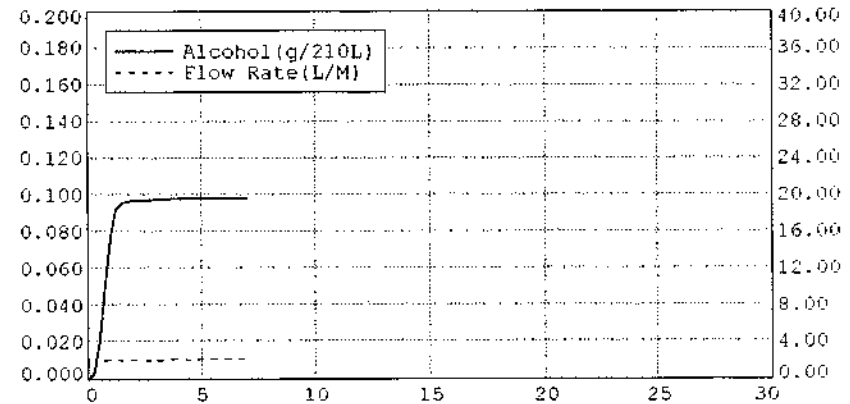
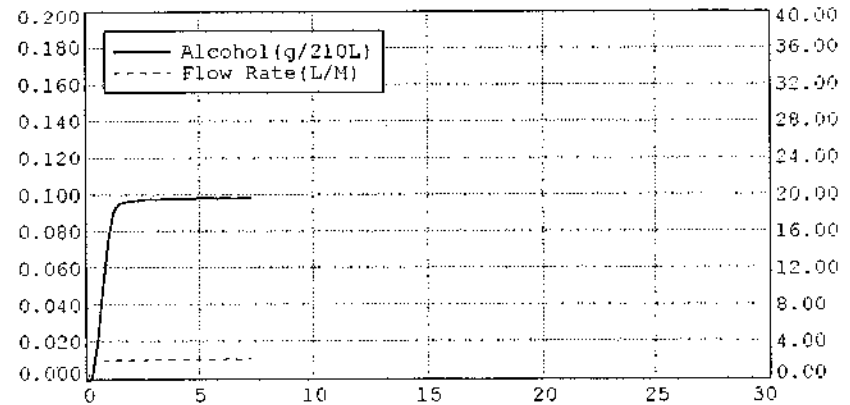
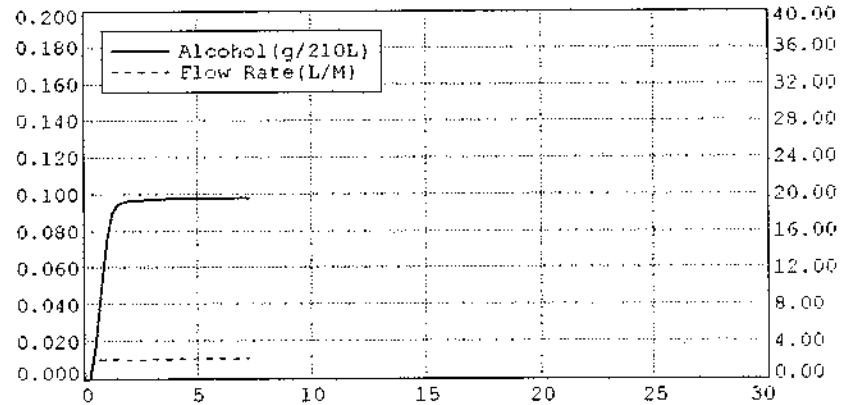
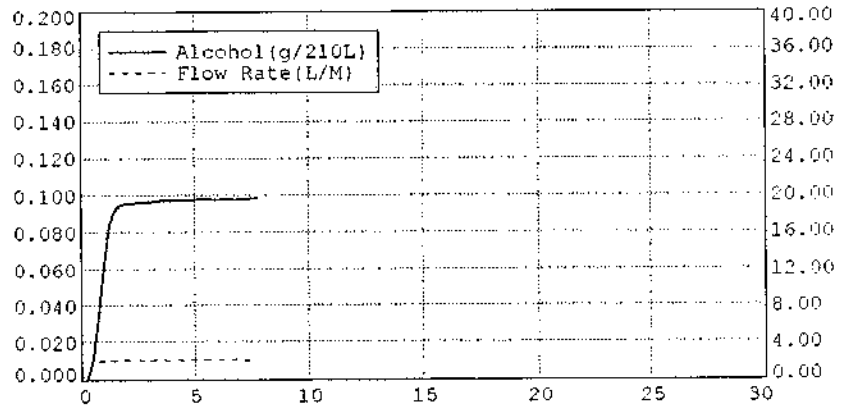
Date: 12/07/2017
 Time: 11:05:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.33: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 661 psi

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.099	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.099	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.099	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.099	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.099	11:12
BLANK TEST	0.000	11:12

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

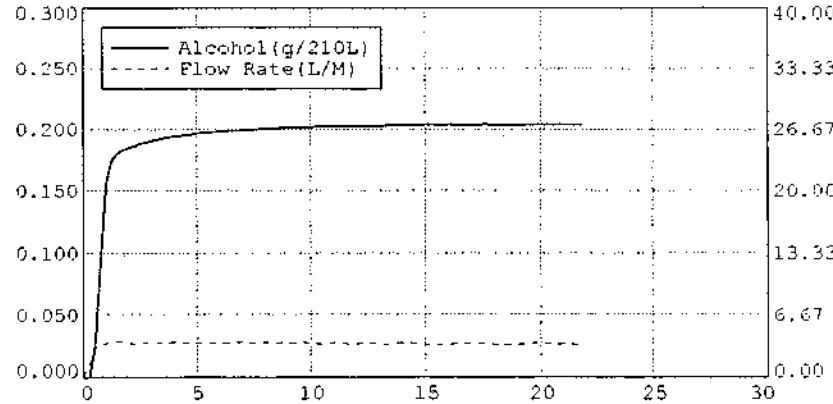
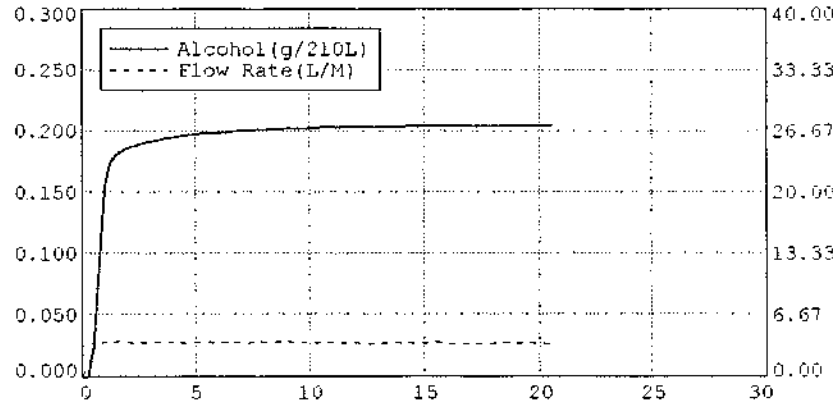
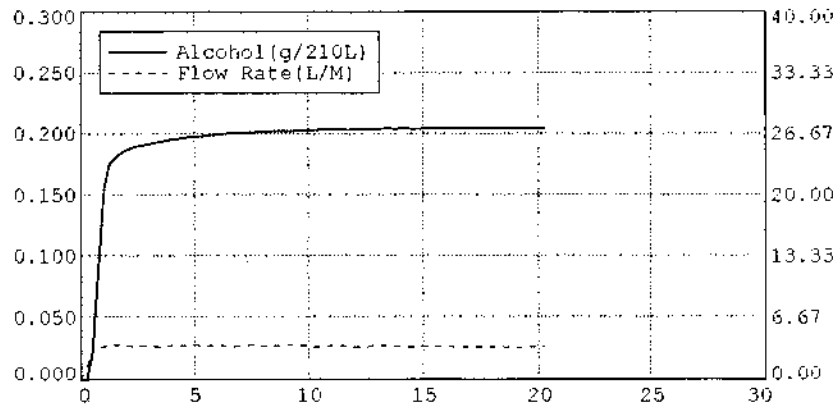
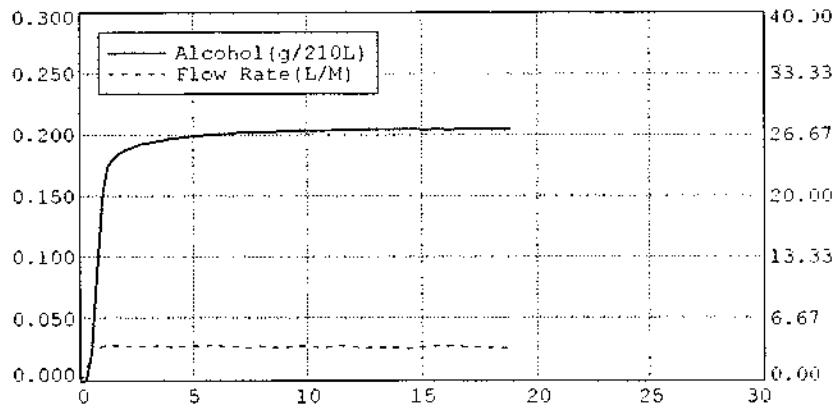
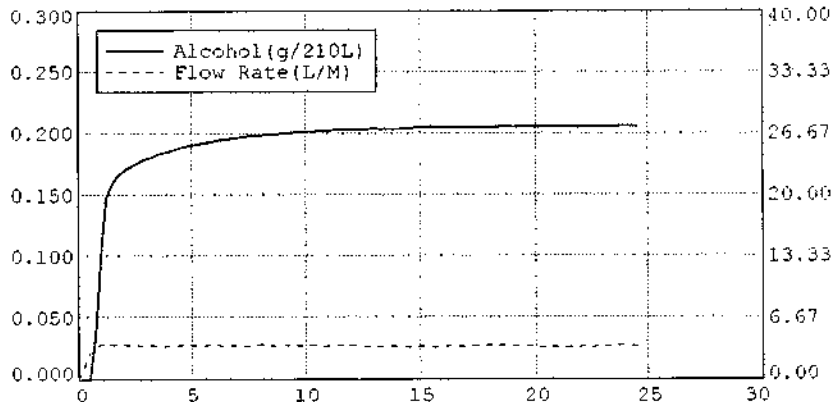
Date: 12/07/2017
 Time: 11:19:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 17090
 EXPIRATION: 02/24/2019

BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.206	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.205	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.204	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.204	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.205	11:26
BLANK TEST	0.000	11:27

Average = 0.2048
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

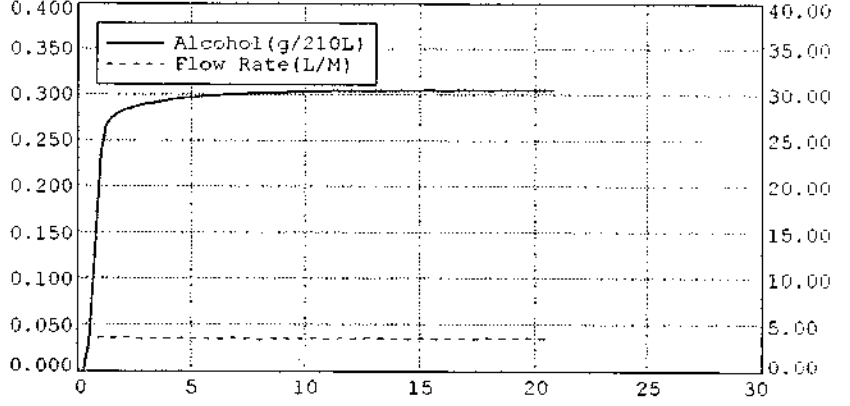
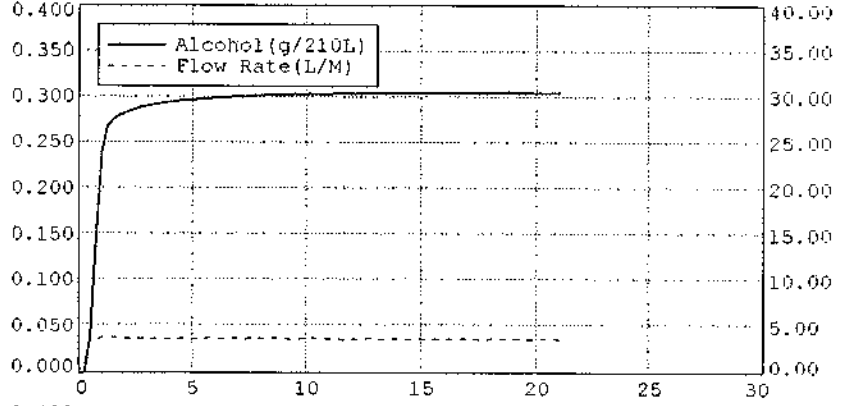
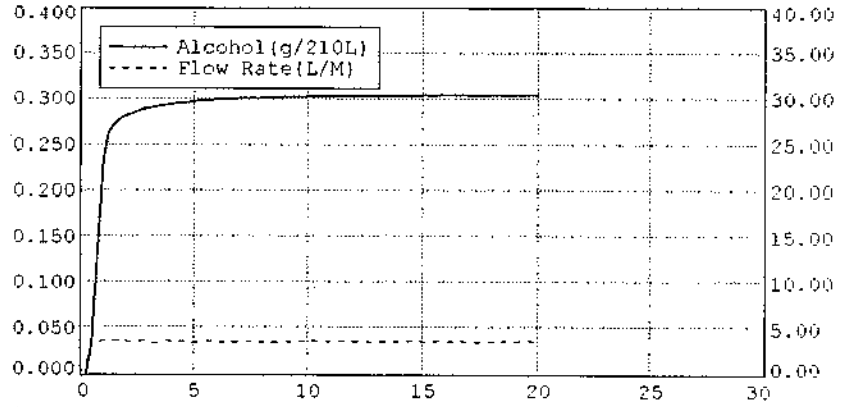
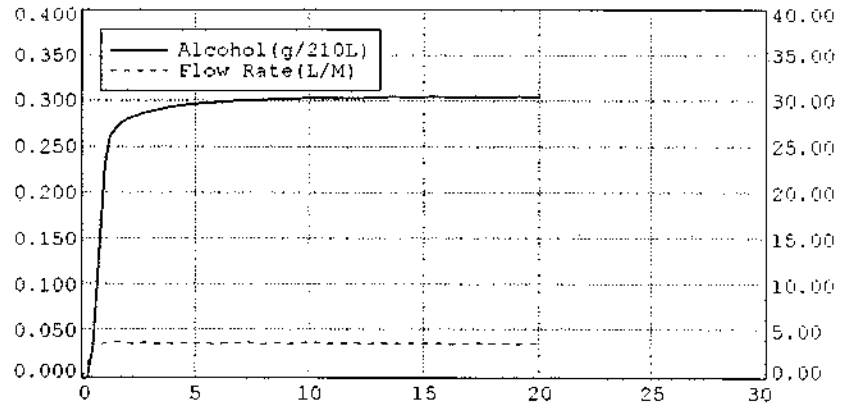
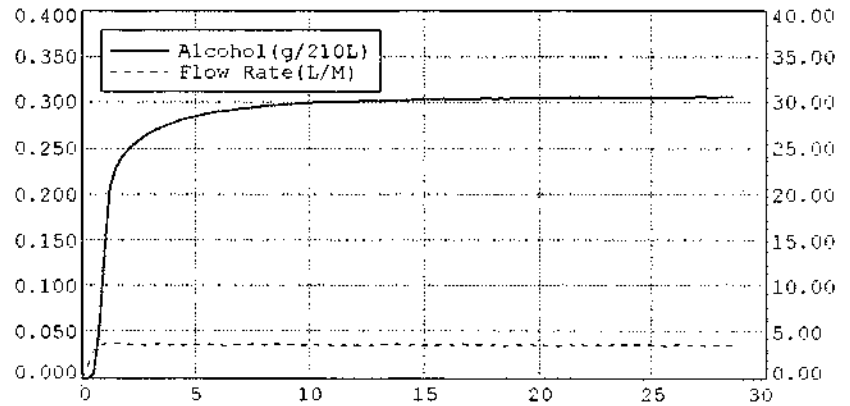
Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 12/07/2017
 Time: 11:29:37

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 17140
 EXPIRATION: 05/15/2019

BLANK TEST	0.000	11:30
INTERNAL STANDARD	VERIFIED	11:30
EXTERNAL STANDARD	0.305	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.304	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.304	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.305	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.305	11:37
BLANK TEST	0.000	11:37

Average = 0.3046
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 12:43:41

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

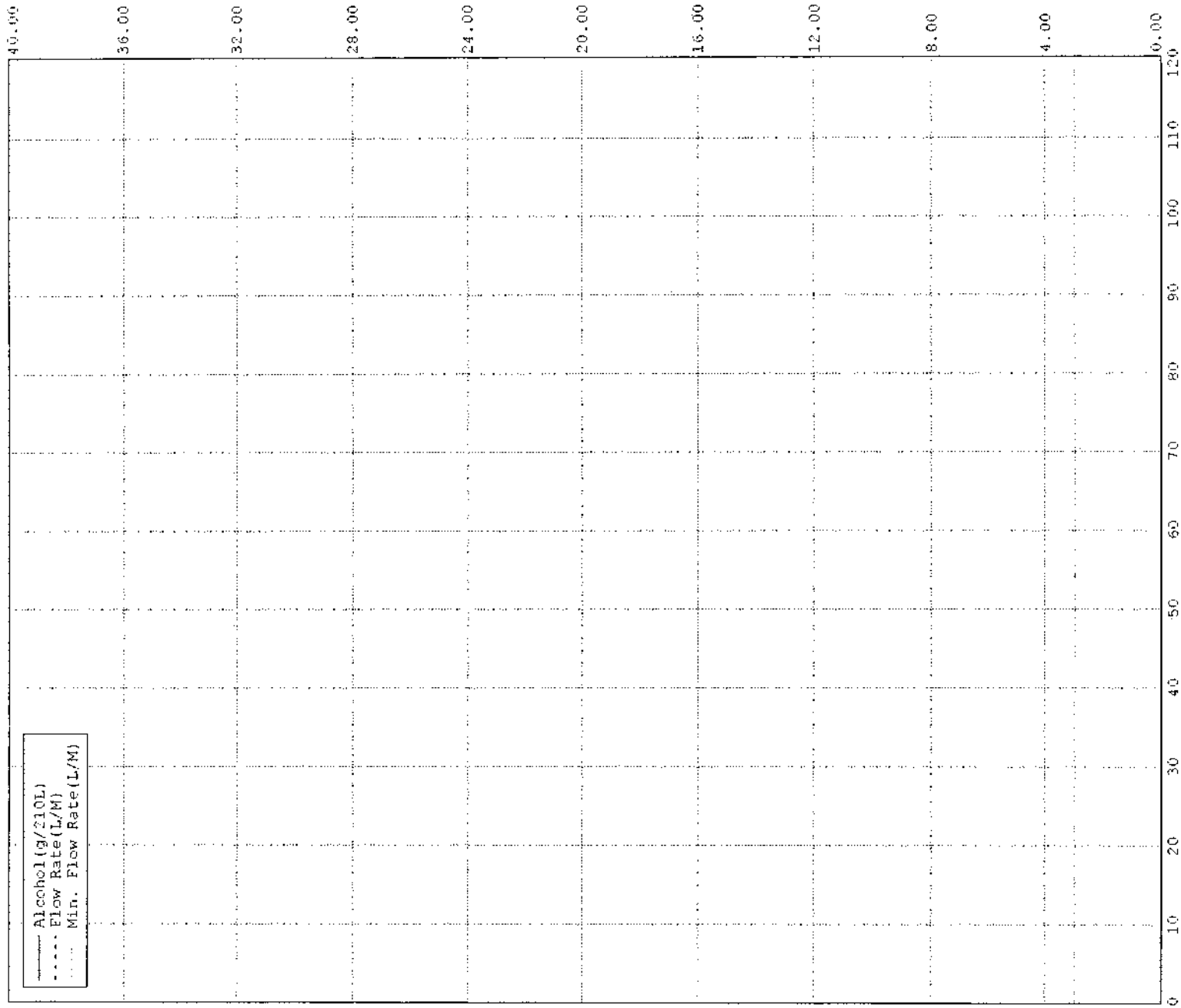
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 13:02
BLANK TEST 0.000 13:02
INTERNAL STANDARD VERIFIED 13:02
EXTERNAL STANDARD 0.078 13:02
BLANK TEST 0.000 13:03
SUBJECT SAMPLE INCOMPLETE 13:05

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER Cmt: 100376

Date: 12/07/2017
Time: 13:14:58

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

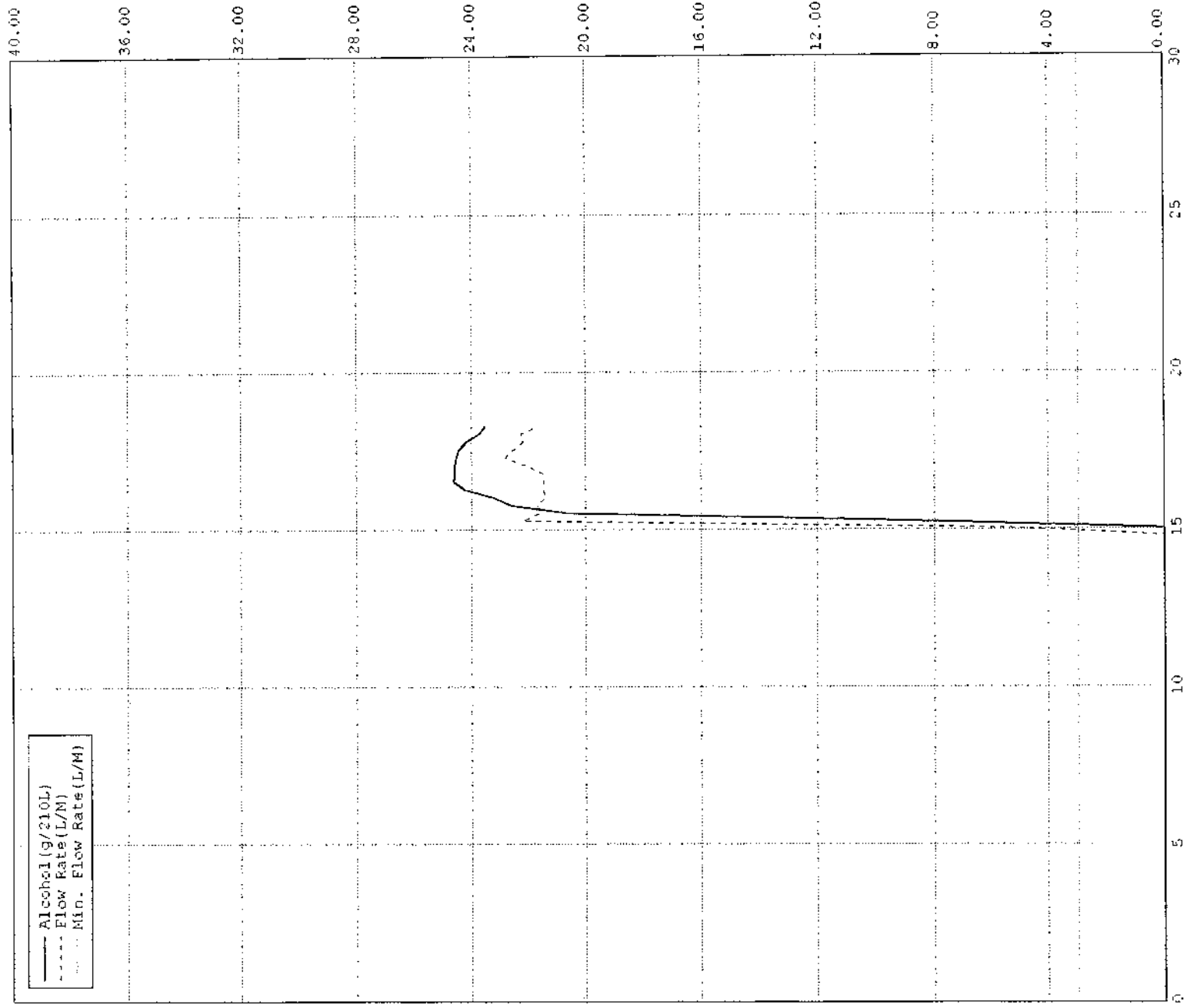
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 13:16
BLANK TEST 0.000 13:16
INTERNAL STANDARD VERIFIED 13:16
EXTERNAL STANDARD 0.078 13:16
BLANK TEST 0.000 13:17
SUBJECT SAMPLE INVALID 13:17

CPB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 13:19:38

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

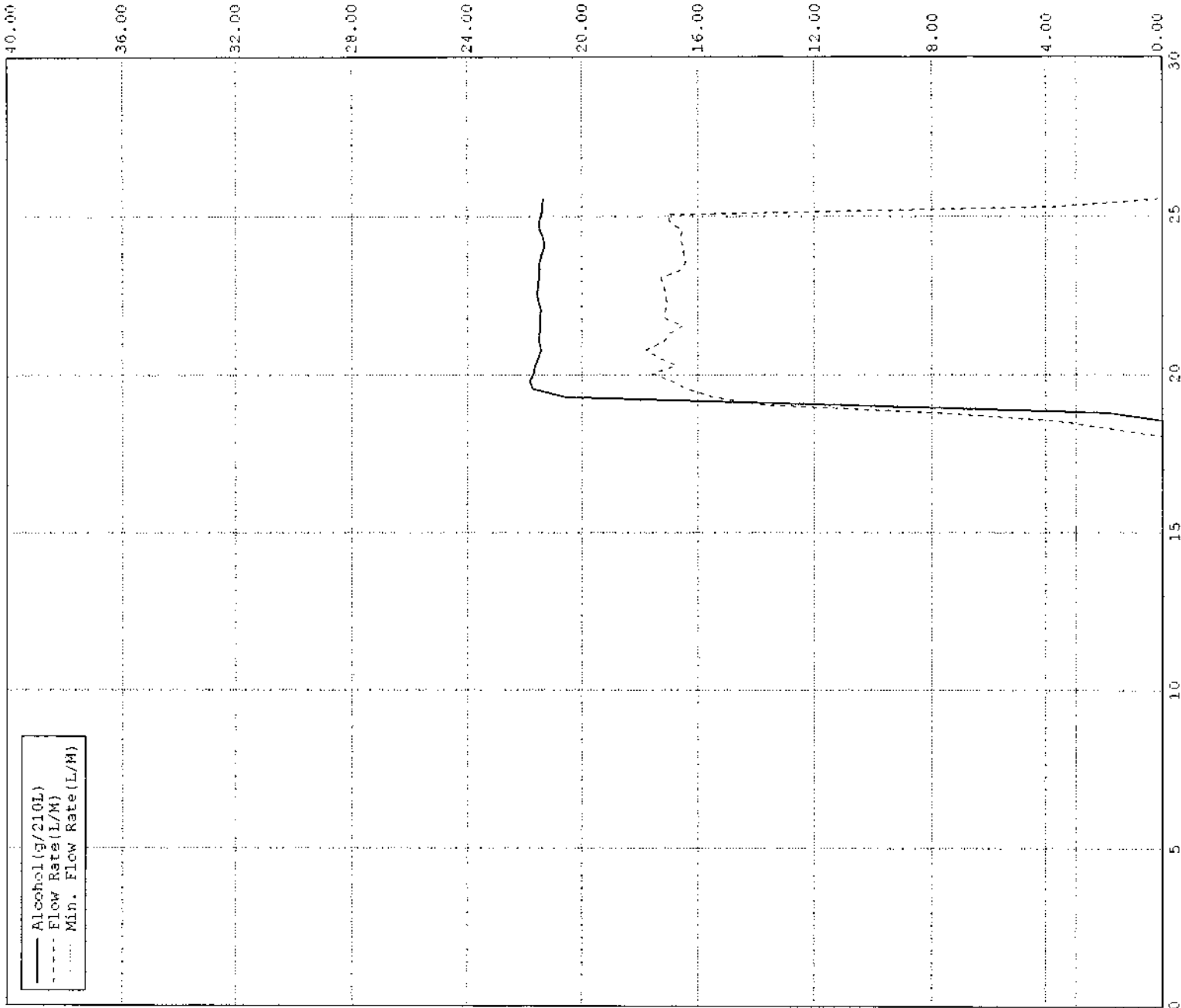
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY: AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 13:20
BLANK TEST 0.000 13:20
INTERNAL STANDARD VERIFIED 13:21
Xq = 0.077 (0.56%)
EXTERNAL STANDARD 0.078 13:21
X[1] = 0.0781 (0.0001) (0.0008)
BLANK TEST 0.000 13:22
SUBJECT SAMPLE XXX 13:22
X[1] = 0.1073 (-0.0135) (-0.0001)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 13:29:49

SUBJECT NAME:
TEST TEST

LICENSE #: INT-AGERTONE-IPA
CB 12/4/17

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

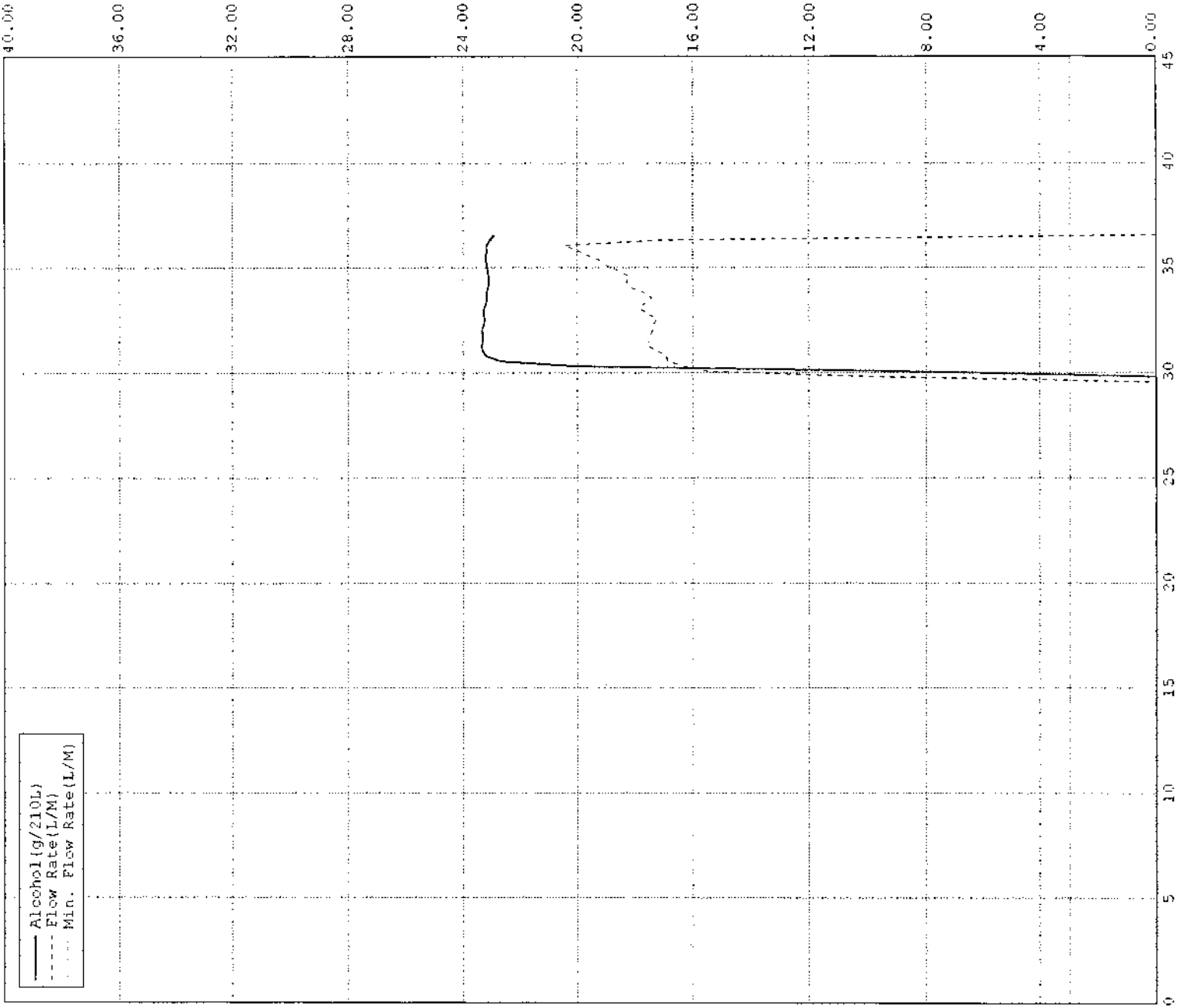
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:30
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
$x_q = 0.077$ (1.01%)		
EXTERNAL STANDARD	0.078	13:31
$x[1] = 0.0779$ (0.0004) (0.0011)		
BLANK TEST	0.000	13:32
SUBJECT SAMPLE	XXX	13:33
$x[1] = 0.1146$ (-0.0257) (0.0003)		

Interference Detected

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 13:38:30

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

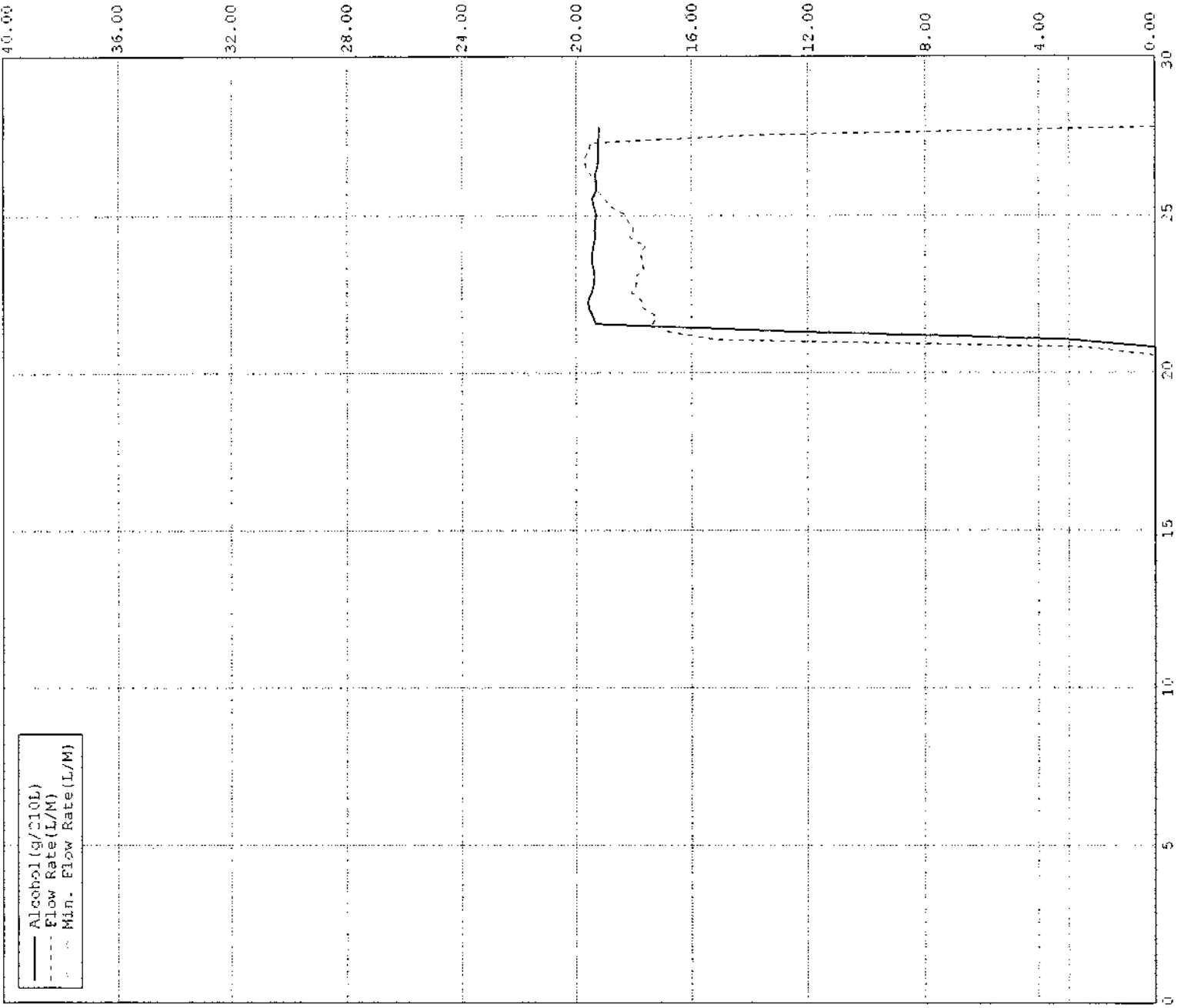
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:40
$X_q = 0.077$ (1.01%)		
EXTERNAL STANDARD	0.078	13:40
$X[1] = 0.0775$ (-0.0004) (0.0008)		
BLANK TEST	0.000	13:41
SUBJECT SAMPLE (Vol=2.03L)	0.095	13:41
$X[1] = 0.0959$ (-0.0015) (-0.0004)		
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.077	13:42
$X[1] = 0.0772$ (-0.0005) (0.0000)		
BLANK TEST	0.000	13:43

Filter 2 avg = -0.0001
Filter 3 avg = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 13:47:22

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

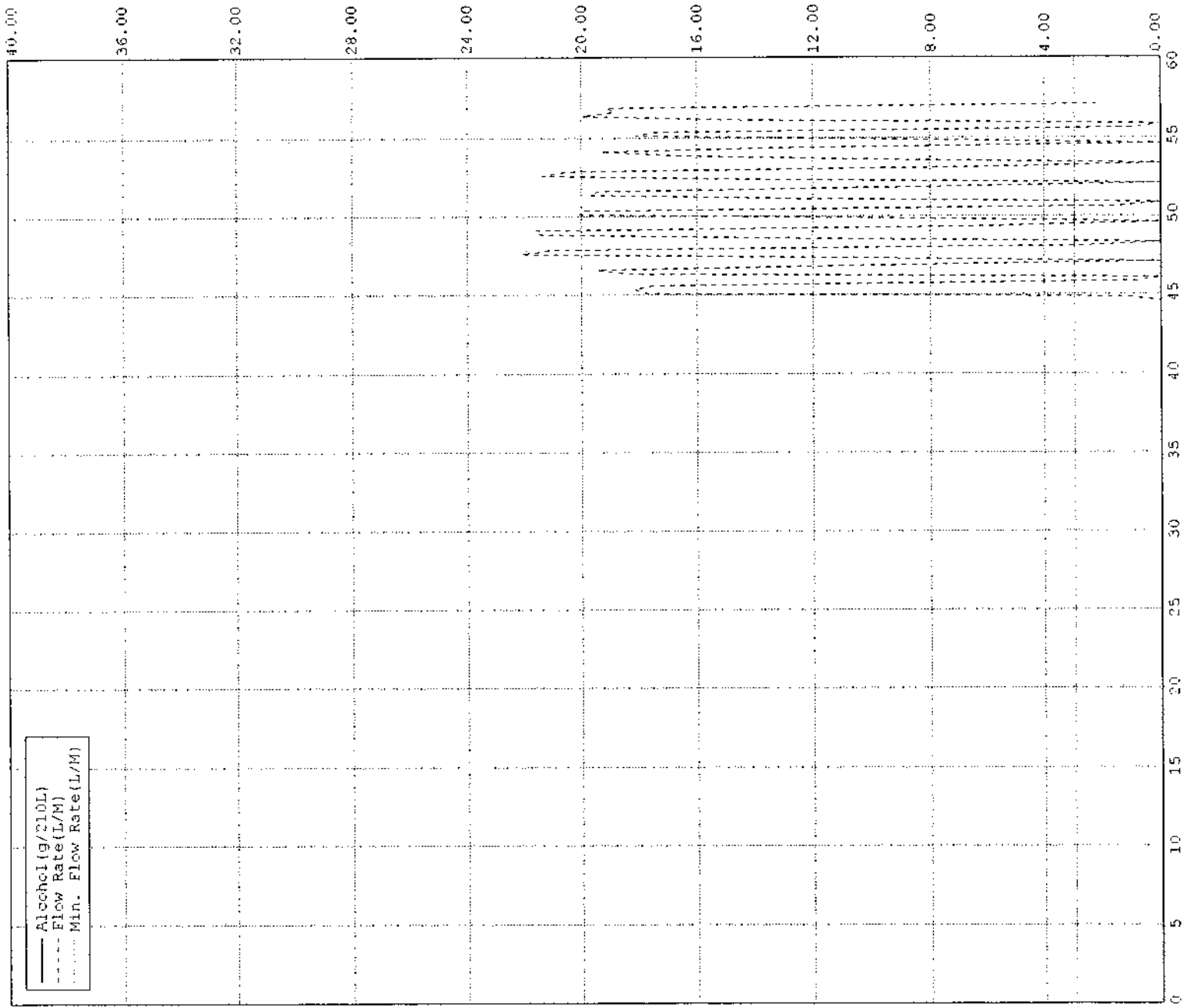
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 13:49
BLANK TEST 0.000 13:49
INTERNAL STANDARD VERIFIED 13:49
EXTERNAL STANDARD 0.078 13:50
BLANK TEST 0.000 13:51
SUBJECT SAMPLE XXX 13:52

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100376

Date: 12/07/2017

Time: 13:55:32

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

OPERATOR NAME:

COLLEEN S OBRyant

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 17-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.22: 0.078

LOT #: AG608504

EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK

PASSED 14:00

BLANK TEST

0.000 14:01

INTERNAL STANDARD

VERIFIED 14:01

EXTERNAL STANDARD

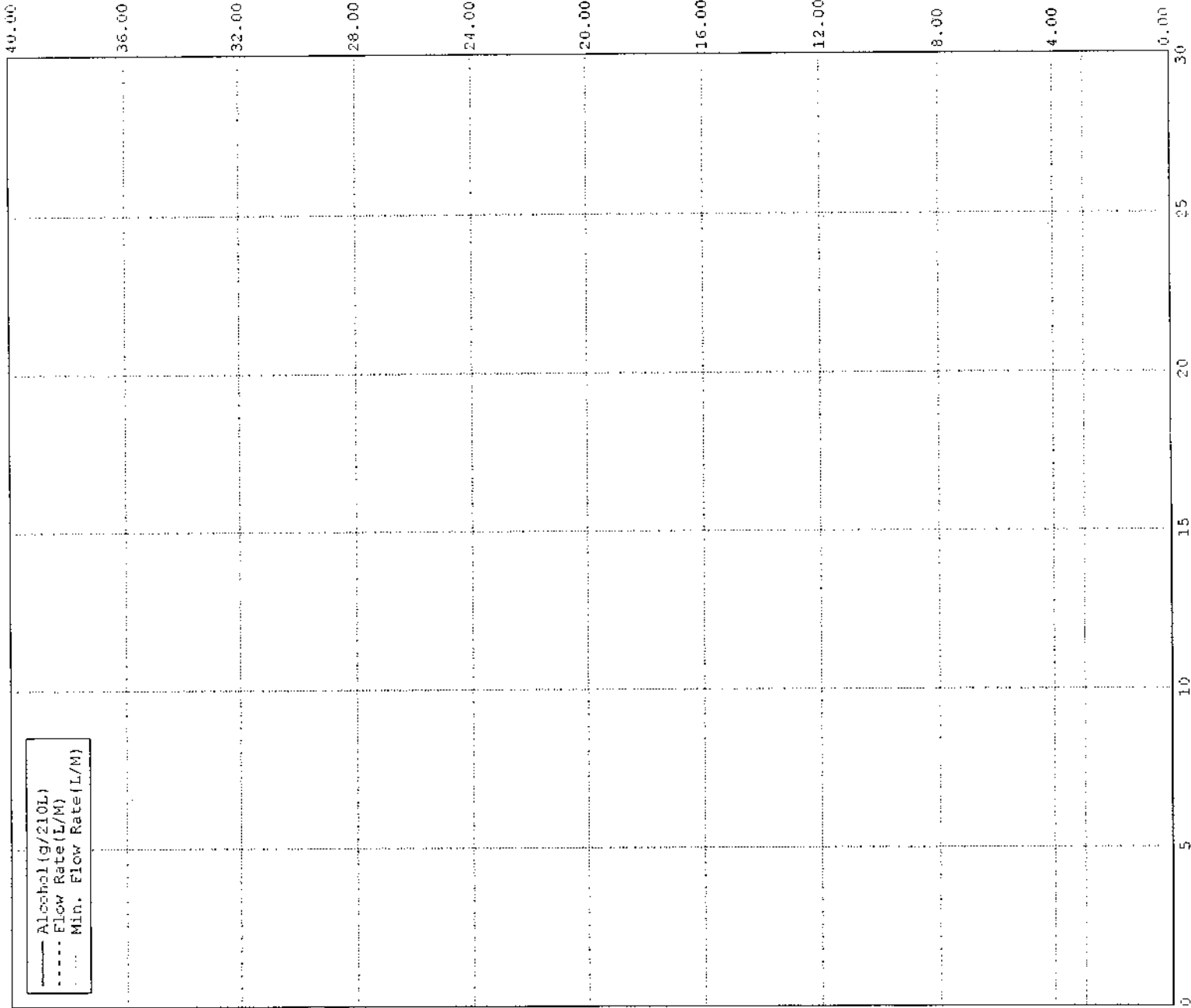
0.078 14:01

BLANK TEST

0.000 14:02

RFI DETECTED

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/07/2017
Time: 14:15:05

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

DEPT/AGENCY:

AAAA
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.078	14:16
BLANK TEST	0.000	14:17
SUBJECT SAMPLE (Vol=1.71L)	0.000	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.079	14:19
BLANK TEST	0.000	14:20

