

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 100387 Analyst C. O'Bryant Start Date 2/8/18

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 Argas Lot AG616504 Exp 6/13/18

ii. 0.040g/210L Mnf Argas Lot AG630101 Exp 10/27/18

iii. 0.080g/210L Mnf Argas Lot AG634001 Exp 12/5/18

iv. 0.100g/210L Mnf Argas Lot AG629304 Exp 10/19/18

v. 0.200g/210L Mnf Both Lot 17090 Exp 2/24/19

1. Simulator S/N SD1300 Date Calibrated 3/29/17

vi. 0.300g/210L Mnf Both 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 Both Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1177 Date Calibrated 1/24/18

ii. Isopropanol - Mnf Both Lot 17280 Level 0.100 Exp 9/11/19

1. Simulator S/N SD1199 Date Calibrated 1/24/18

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

1. Simulator S/N SD1088 Date Calibrated 1/24/18

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 2/12/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/08/2018
Time: 16:10:34

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 = 47.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.72 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 1.64 V PASSED
(1.03 V - 2.39 V)
Bias Voltage = 78 V PASSED
(47 V - 111 V)
Chopper Freq = 540 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.625 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 = 0.098 0.45% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 8:05 AM

Temperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 47.8°C

Current Barometer 29.3 in
Volume (Ltr) 1.49

Settings
Lamp: 1.72 V
Bias: 80 V
Cooler: 1.66 V
Chopper: 540 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.043 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 09/18/2012
Time: 12:25:22

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000		
CAL	=	0.972401	0.800	<= CAL < 1.200
b1	=	0.0001	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0980	0.0500	<= Xq < 0.2000
a21	=	1.168421	1.050	<= a21 < 1.300
a31	=	0.471464	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100387

Date: 02/12/2018
Time: 08:06:56

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

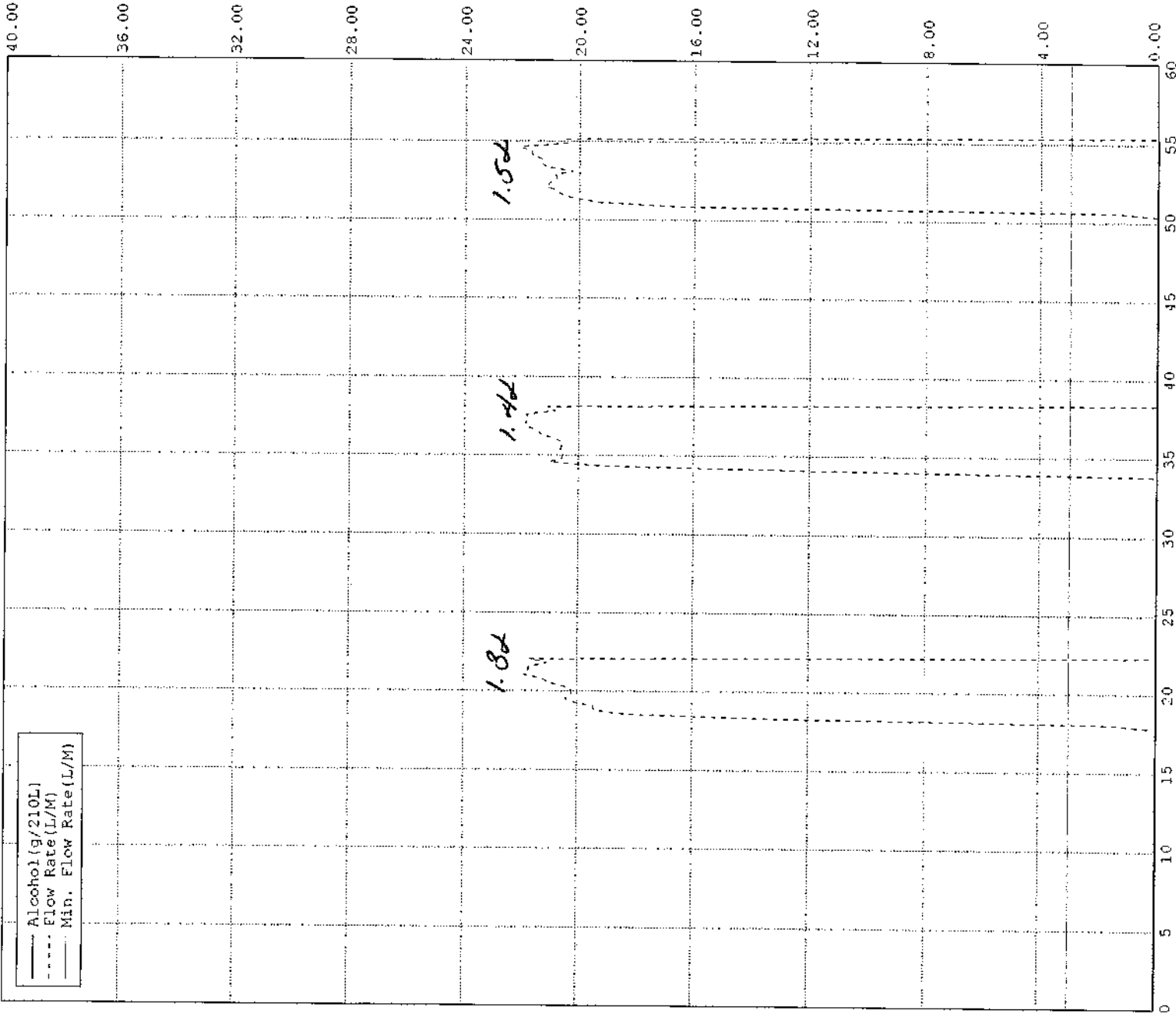
DEPT/AGENCY:
AAA1

CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	08:09
BLANK TEST	0.000	08:09
INTERNAL STANDARD	VERIFIED	08:09
EXTERNAL STANDARD	0.077	08:10
BLANK TEST	0.000	08:11
SUBJECT SAMPLE (Vol=1.55L)	0.000	08:12
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.077	08:13
BLANK TEST	0.000	08:14



LINEARITY CHECK

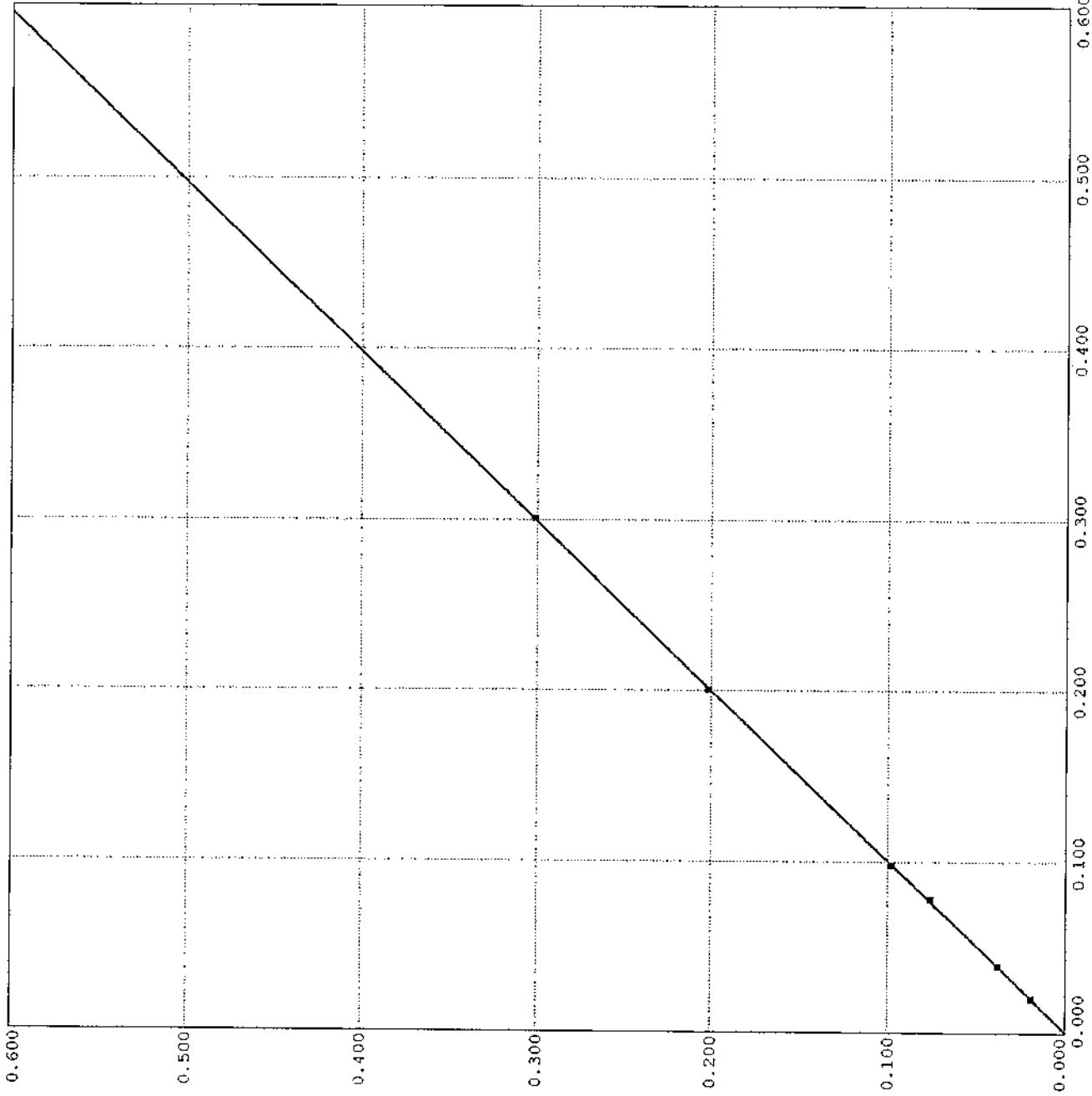
Alaska Department of Public Safety
 DATA MASTER dmt: 100387

Date: 02/12/2018
 Time: 08:59:00

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0394	0.0005
0.078	0.0770	0.0000
0.098	0.0990	0.0000
0.200	0.2026	0.0005
0.300	0.3020	0.0007

SLOPE = 1.009077
 R² = 0.999937



CUB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

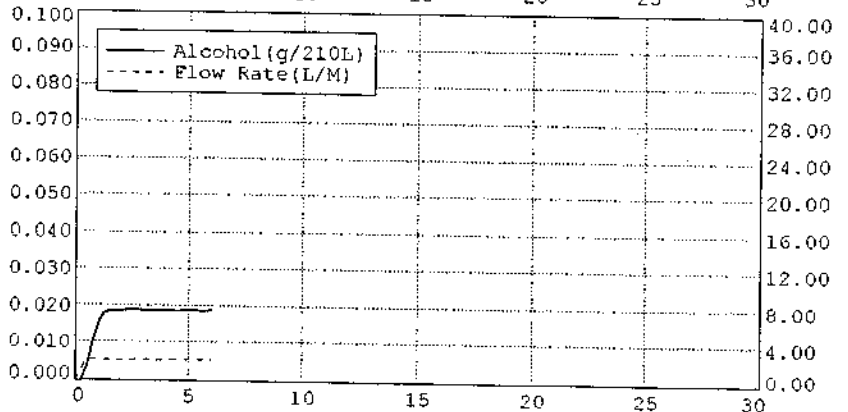
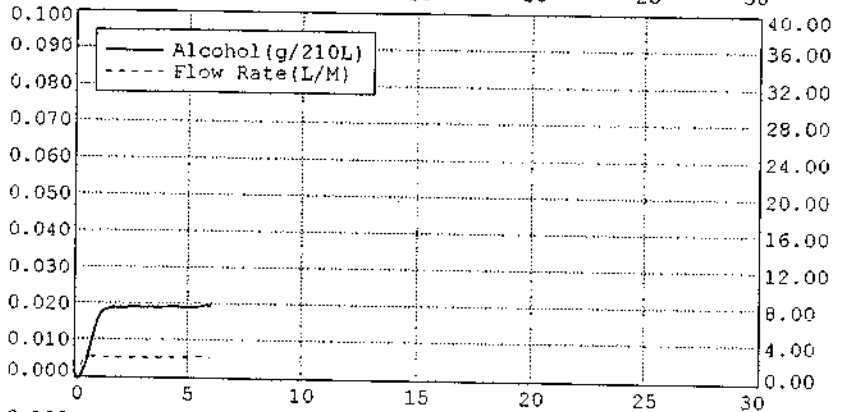
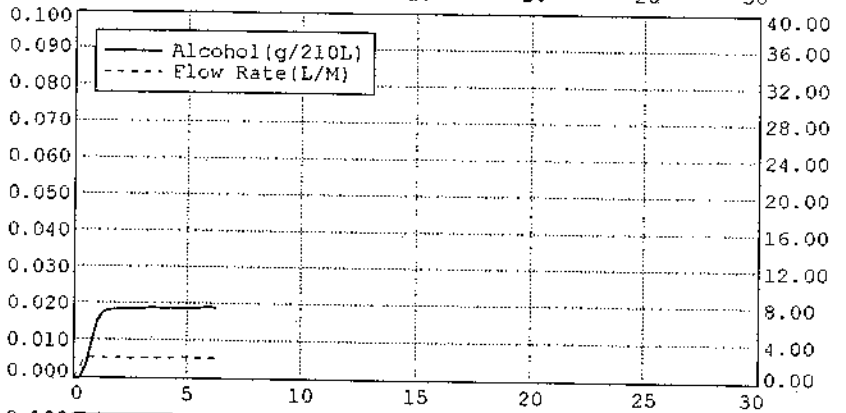
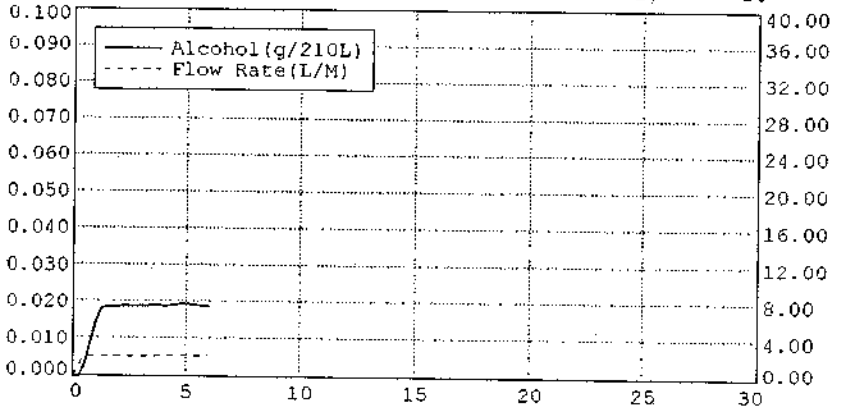
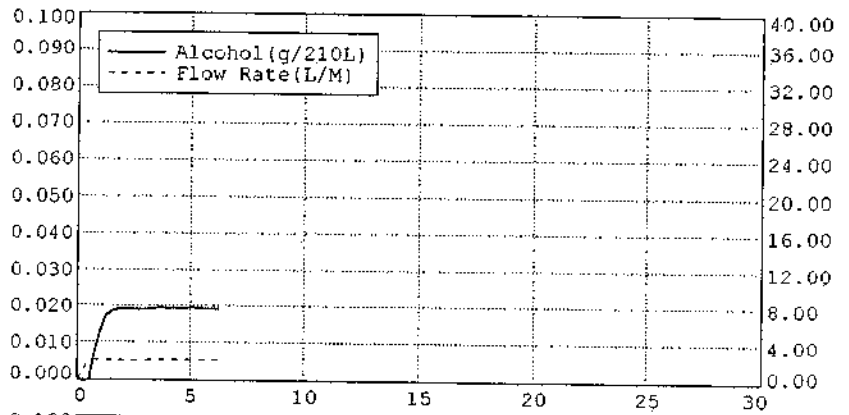
Date: 02/12/2018
 Time: 08:59:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.35: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 275 psi

BLANK TEST	0.000	09:05
INTERNAL STANDARD	VERIFIED	09:05
EXTERNAL STANDARD	0.020	09:06
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.020	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.020	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.021	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.020	09:10
BLANK TEST	0.000	09:11

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

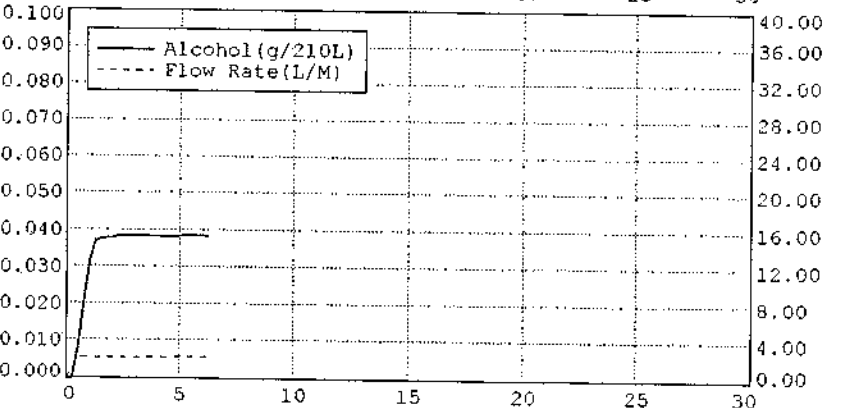
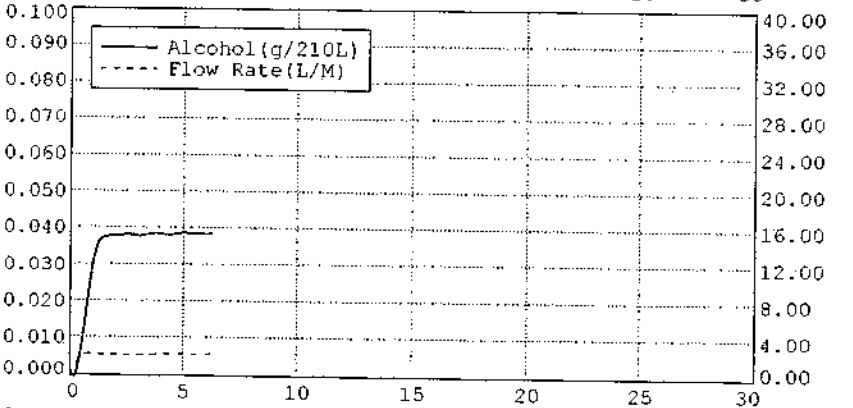
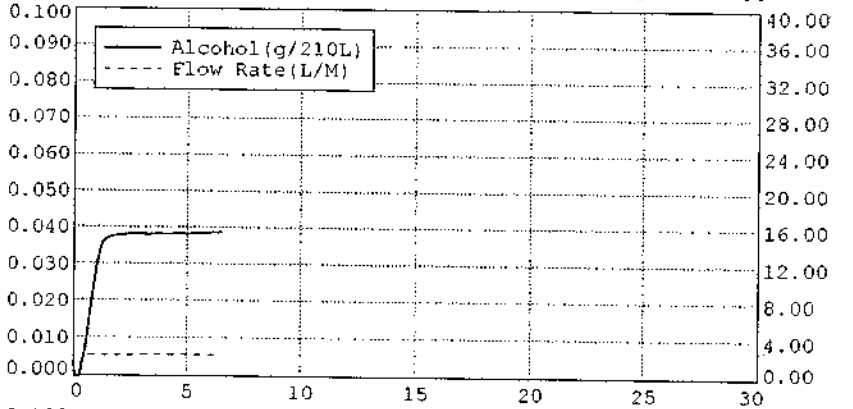
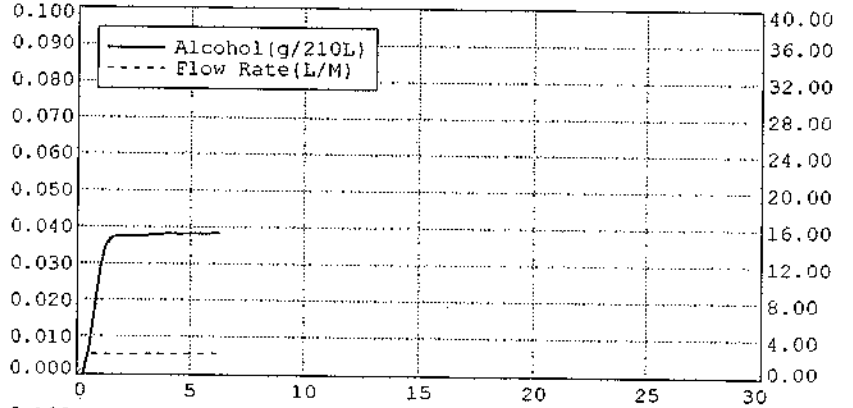
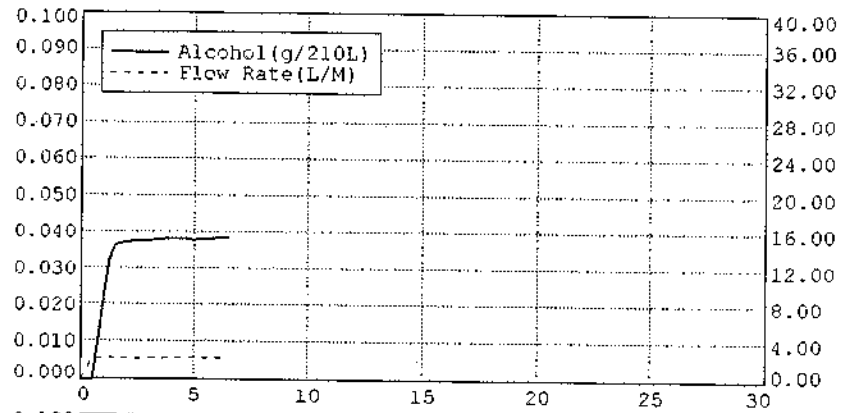
Date: 02/12/2018
 Time: 09:36:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.35: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 367 psi

BLANK TEST	0.000	09:38
INTERNAL STANDARD	VERIFIED	09:38
EXTERNAL STANDARD	0.039	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.039	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.040	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.039	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.040	09:42
BLANK TEST	0.000	09:43

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

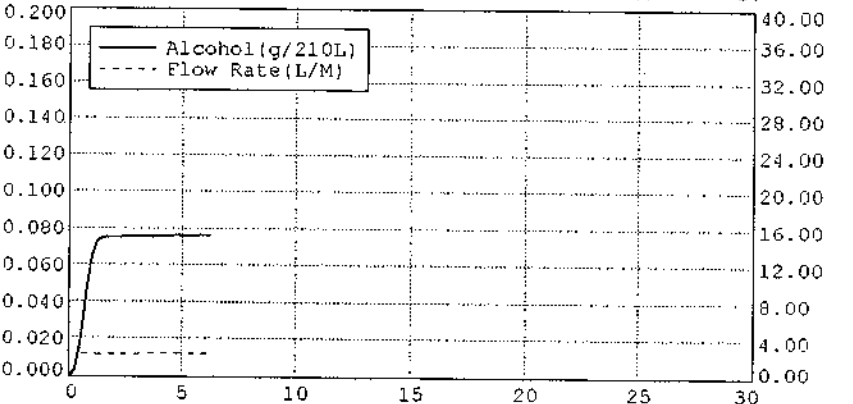
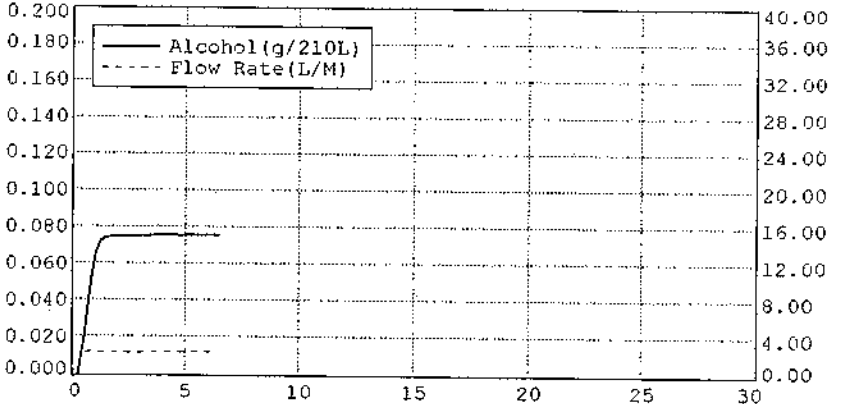
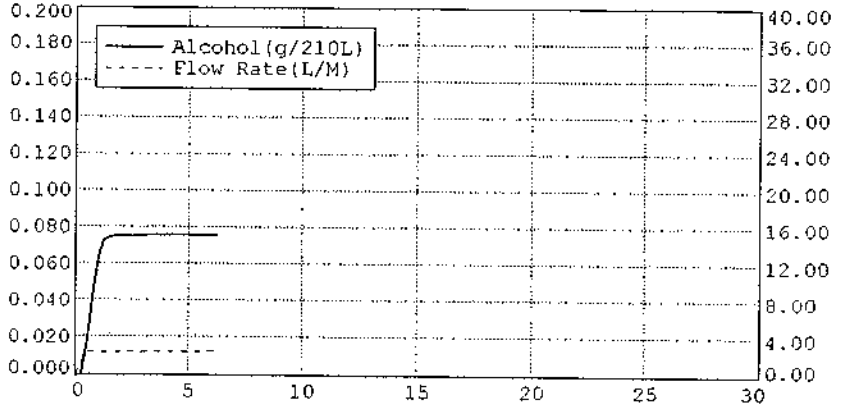
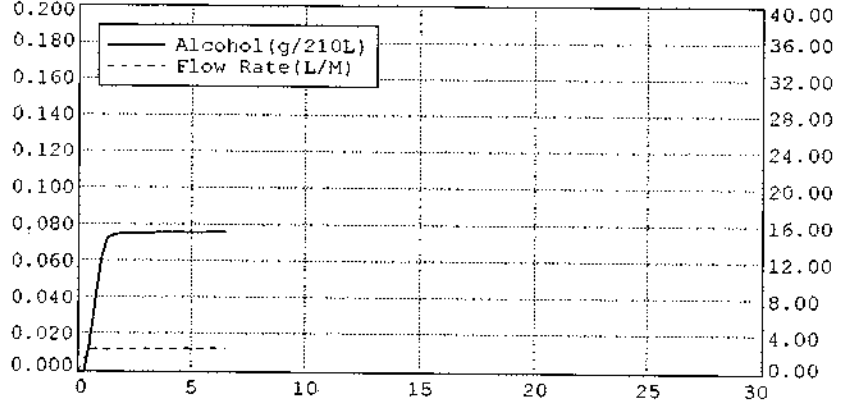
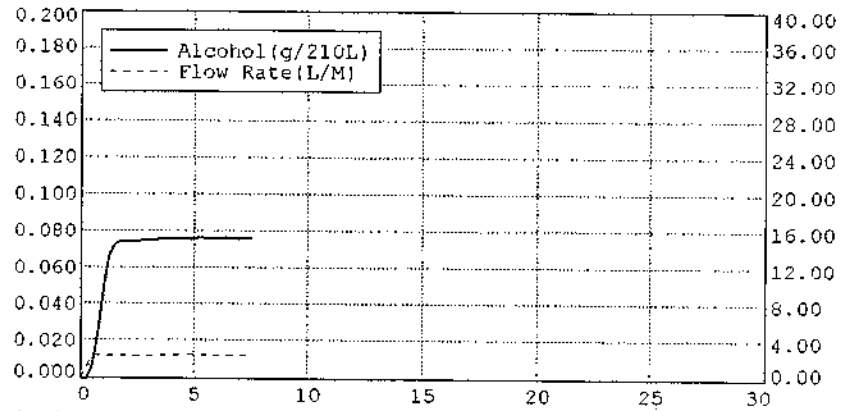
Date: 02/12/2018
 Time: 09:49:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 651 psi

BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.077	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.077	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.077	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.077	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.077	09:55
BLANK TEST	0.000	09:56

Average = 0.0770
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

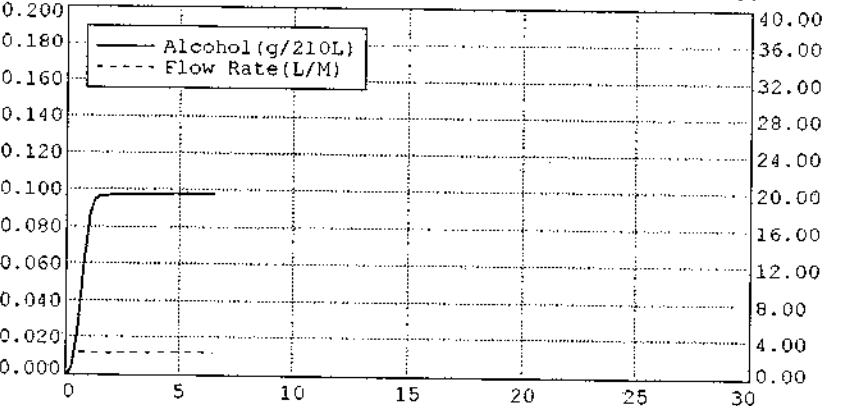
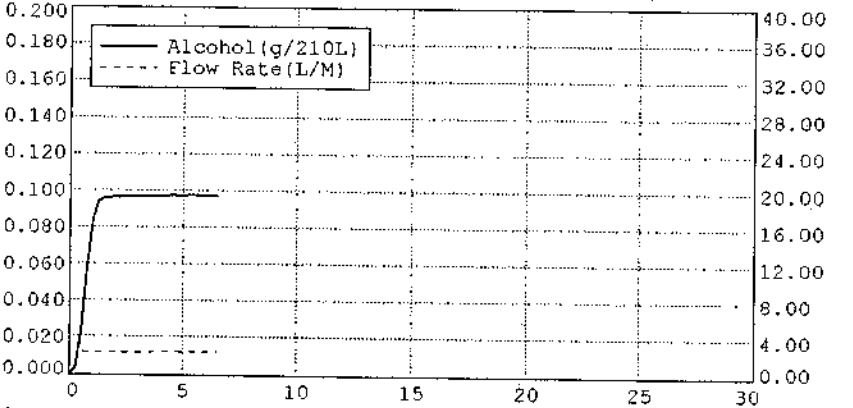
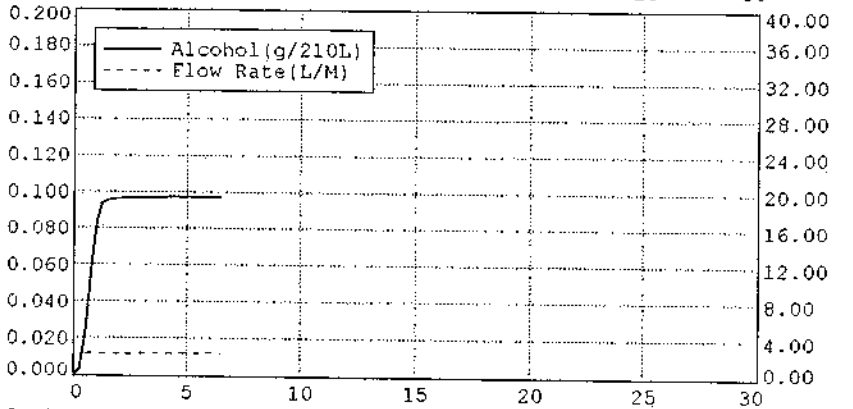
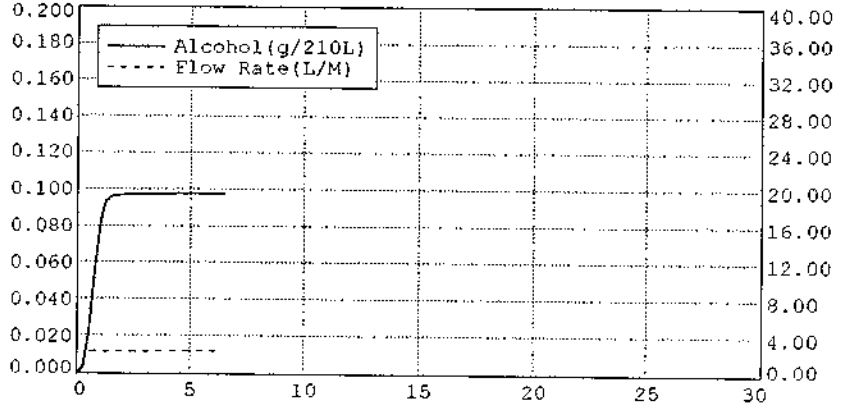
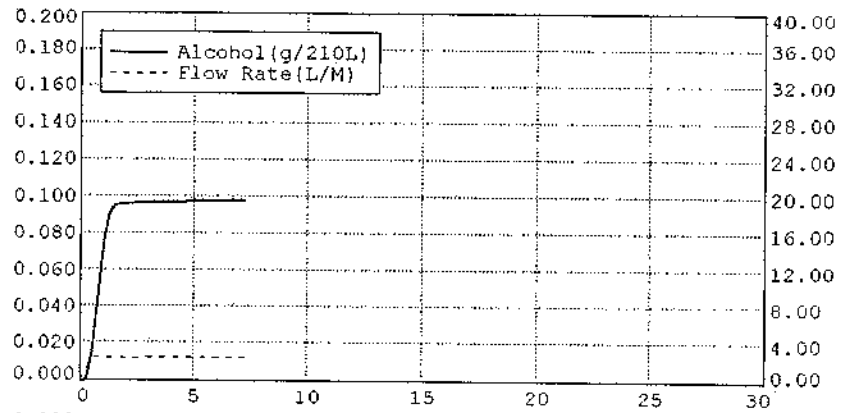
Date: 02/12/2018
 Time: 09:58:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.35: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 675 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.099	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.099	10:01
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.099	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.099	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.099	10:04
BLANK TEST	0.000	10:05

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

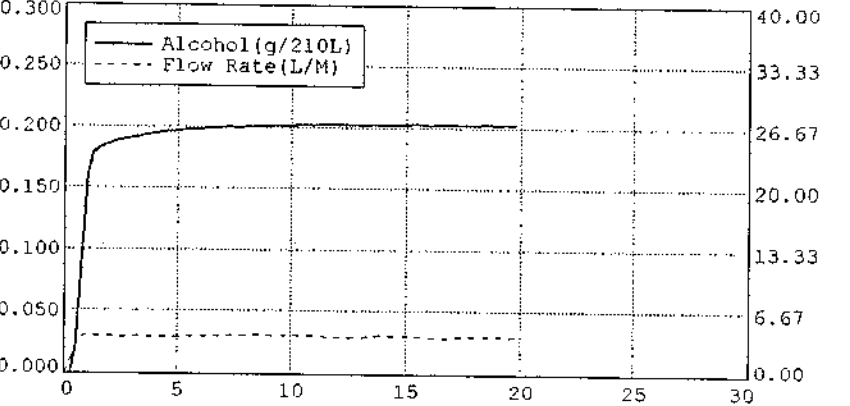
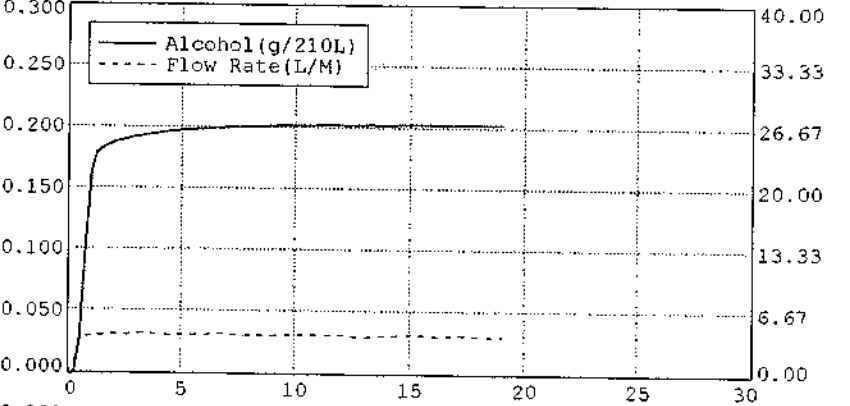
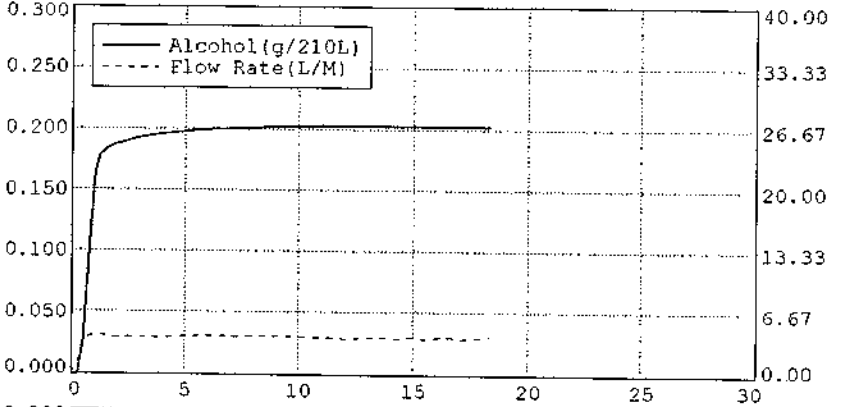
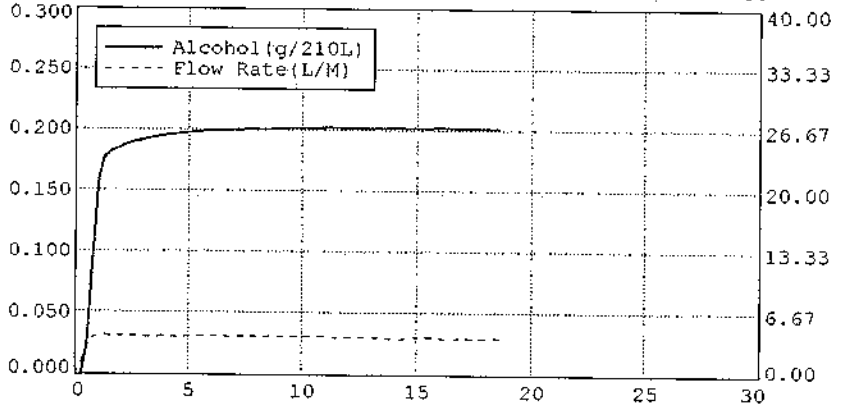
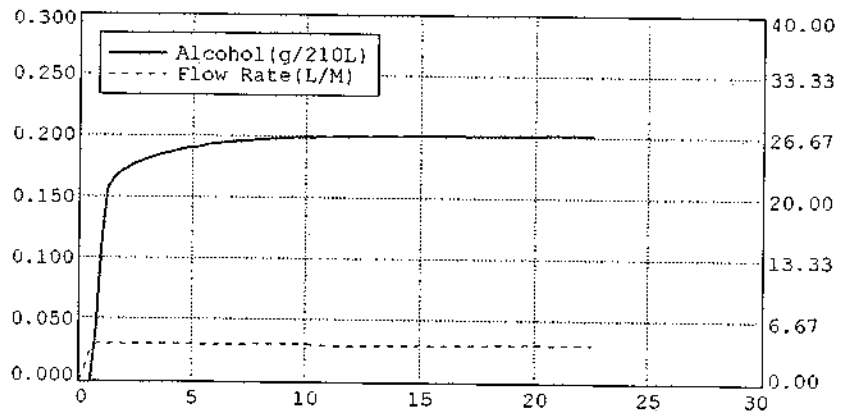
Date: 02/12/2018
 Time: 10:07:01

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:08
EXTERNAL STANDARD	0.202	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.202	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.203	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.203	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.203	10:14
BLANK TEST	0.000	10:15

Average = 0.2026
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

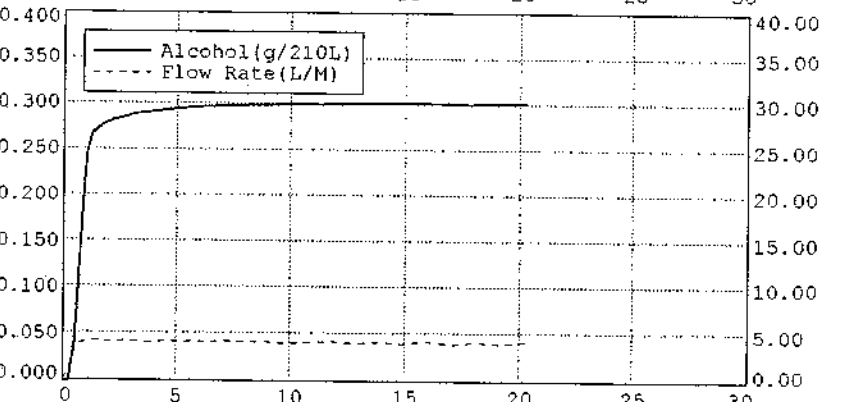
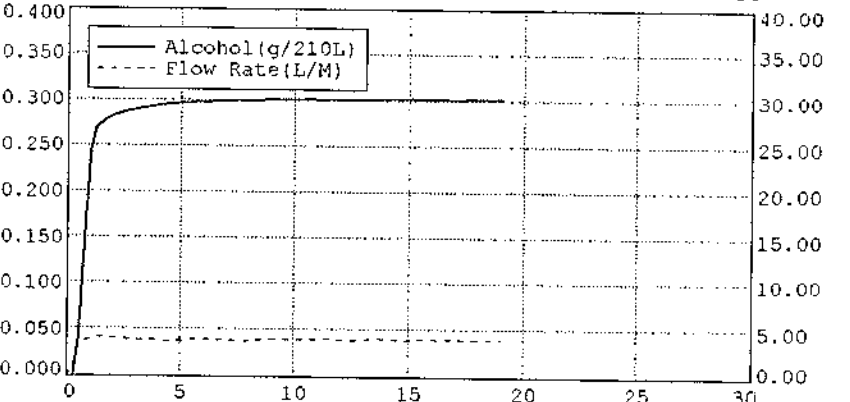
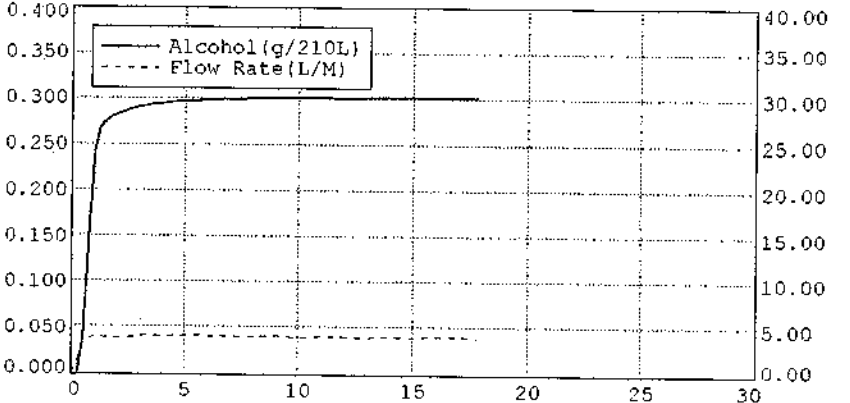
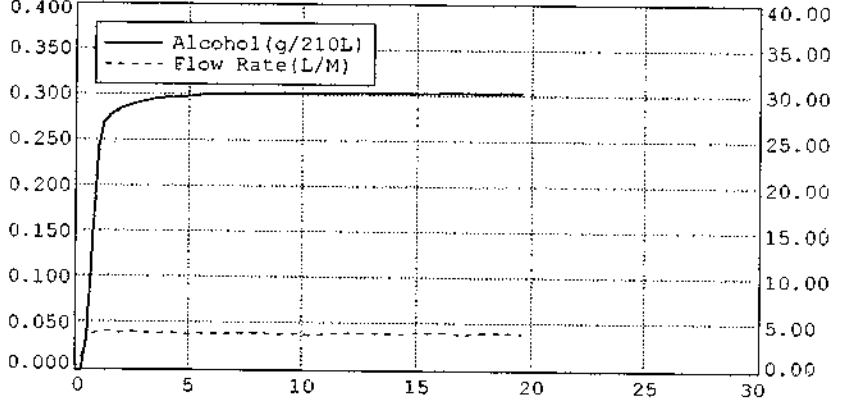
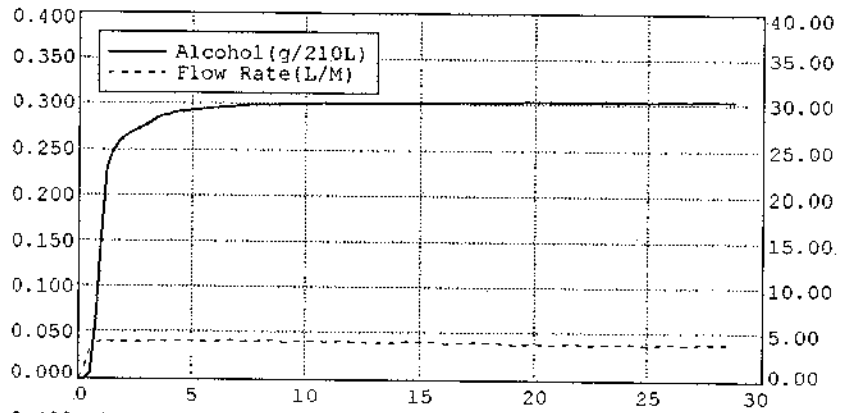
Date: 02/12/2018
 Time: 10:18:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 17140
 EXPIRATION: 05/15/2019

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.303	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.302	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.302	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.302	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.301	10:26
BLANK TEST	0.000	10:27

Average = 0.3020
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 10:43:11

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

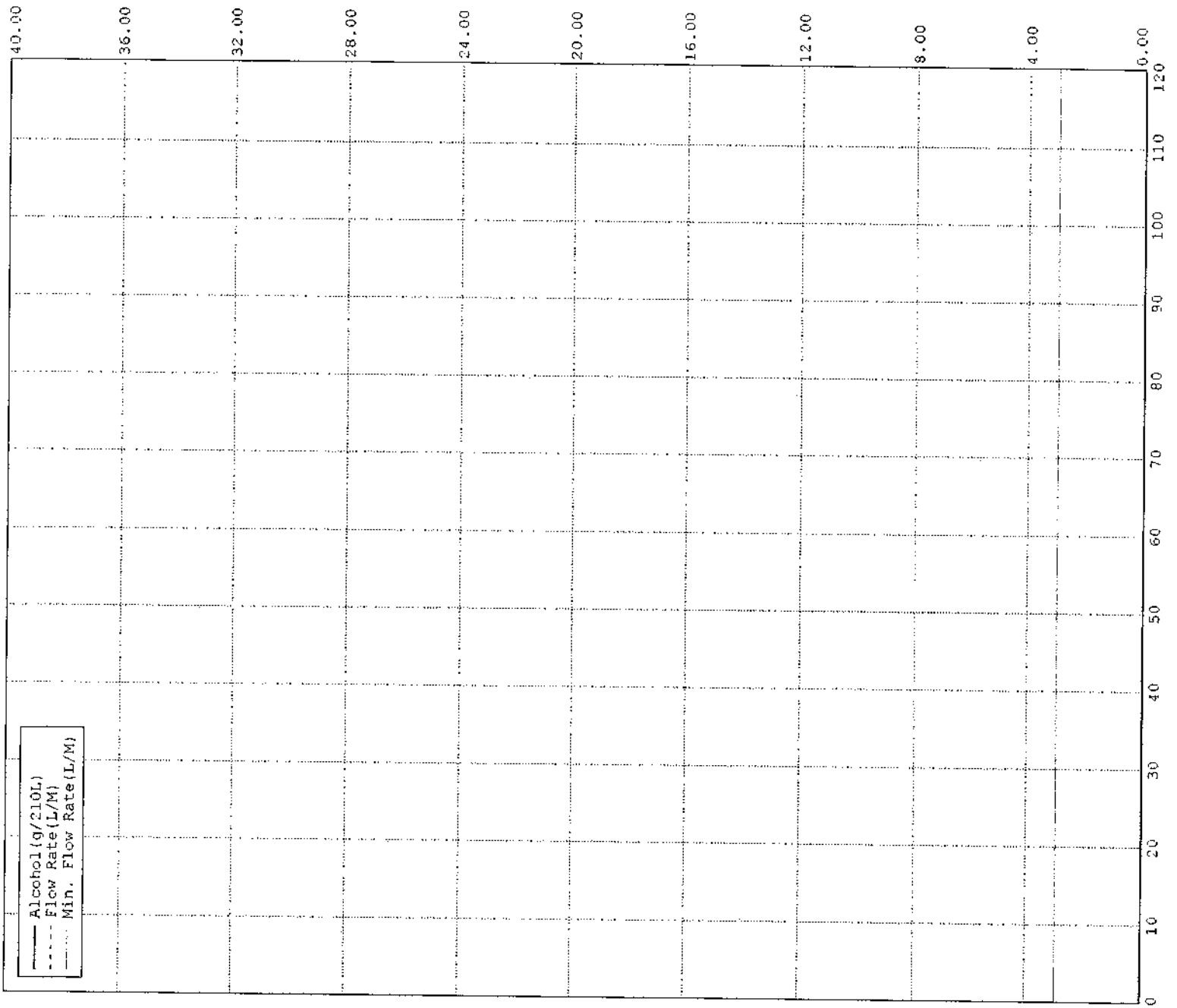
DEPT/AGENCY:
AAA1

CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:54
BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.077	10:54
BLANK TEST	0.000	10:55
SUBJECT SAMPLE	INCOMPLETE	10:57



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100387

Date: 02/12/2018

Time: 11:00:42

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 18-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.33: 0.078

LOT #: AG634001

EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 11:02

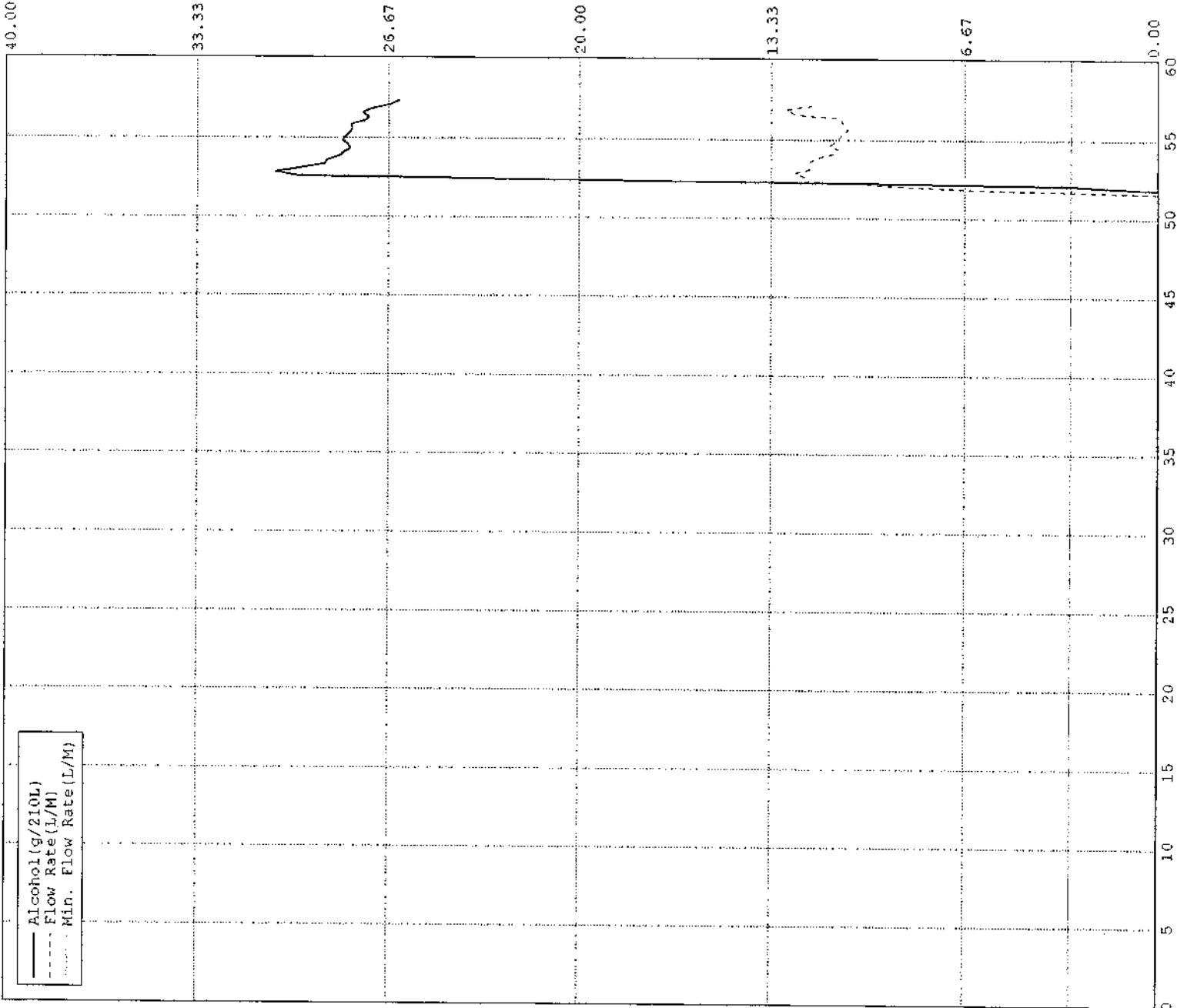
0.000 11:02

VERIFIED 11:02

0.077 11:02

0.000 11:03

INVALID 11:04



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 11:07:28

SUBJECT NAME:
TEST TEST

LICENSE #: INT-ACETONE

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 18-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.34: 0.078

LOT #: AG634001

EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 11:09

BLANK TEST 0.000 11:09

INTERNAL STANDARD VERIFIED 11:10

Xq = 0.099 (1.43%)

EXTERNAL STANDARD 0.077 11:10

X[1] = 0.0768 (-0.0006) (0.0022)

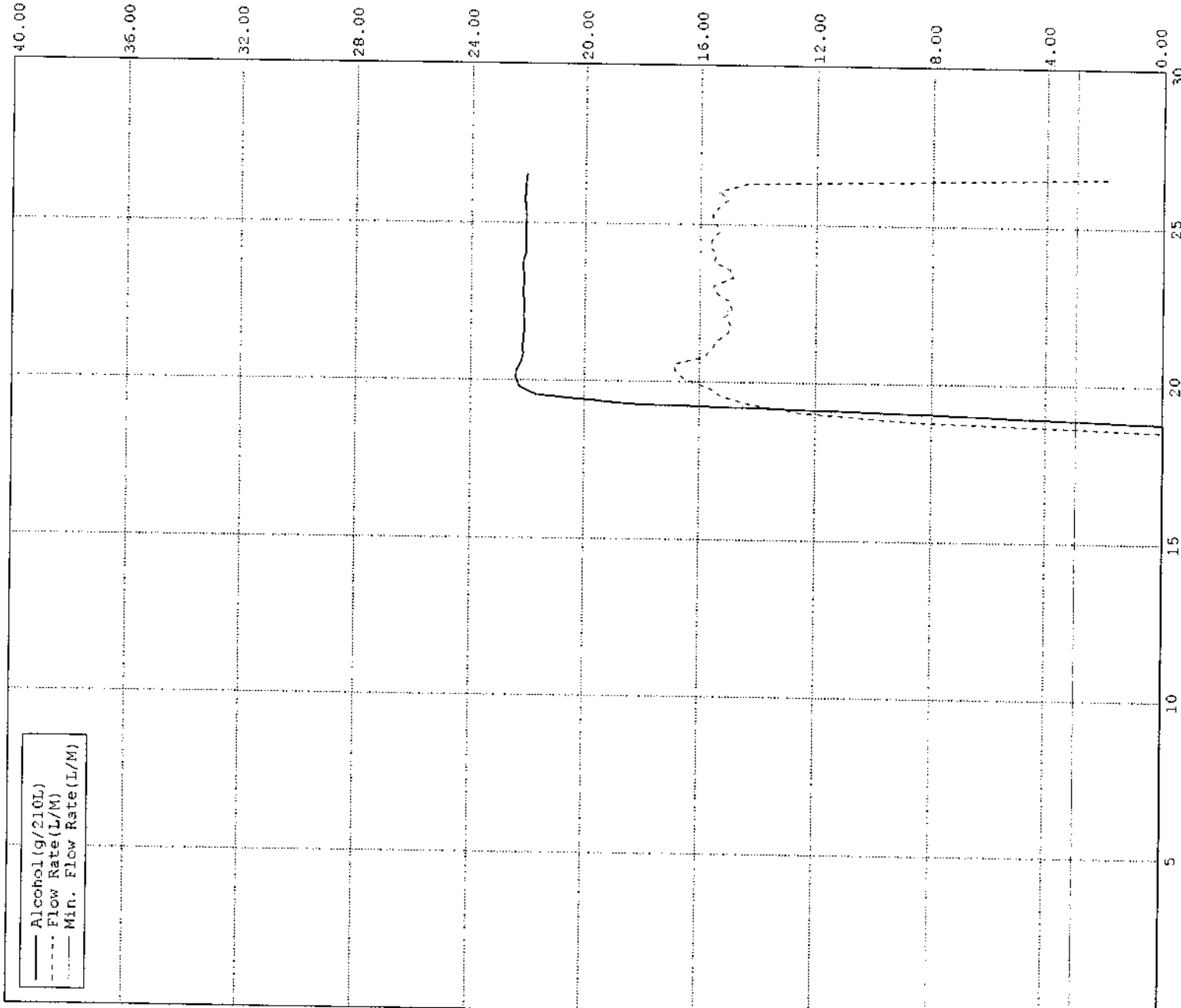
BLANK TEST 0.000 11:11

SUBJECT SAMPLE XXX 11:11

X[1] = 0.1106 (-0.0133) (0.0027)

Interference Detected

Filter Lag = -0.0006
Filter Lag = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 11:15:15

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

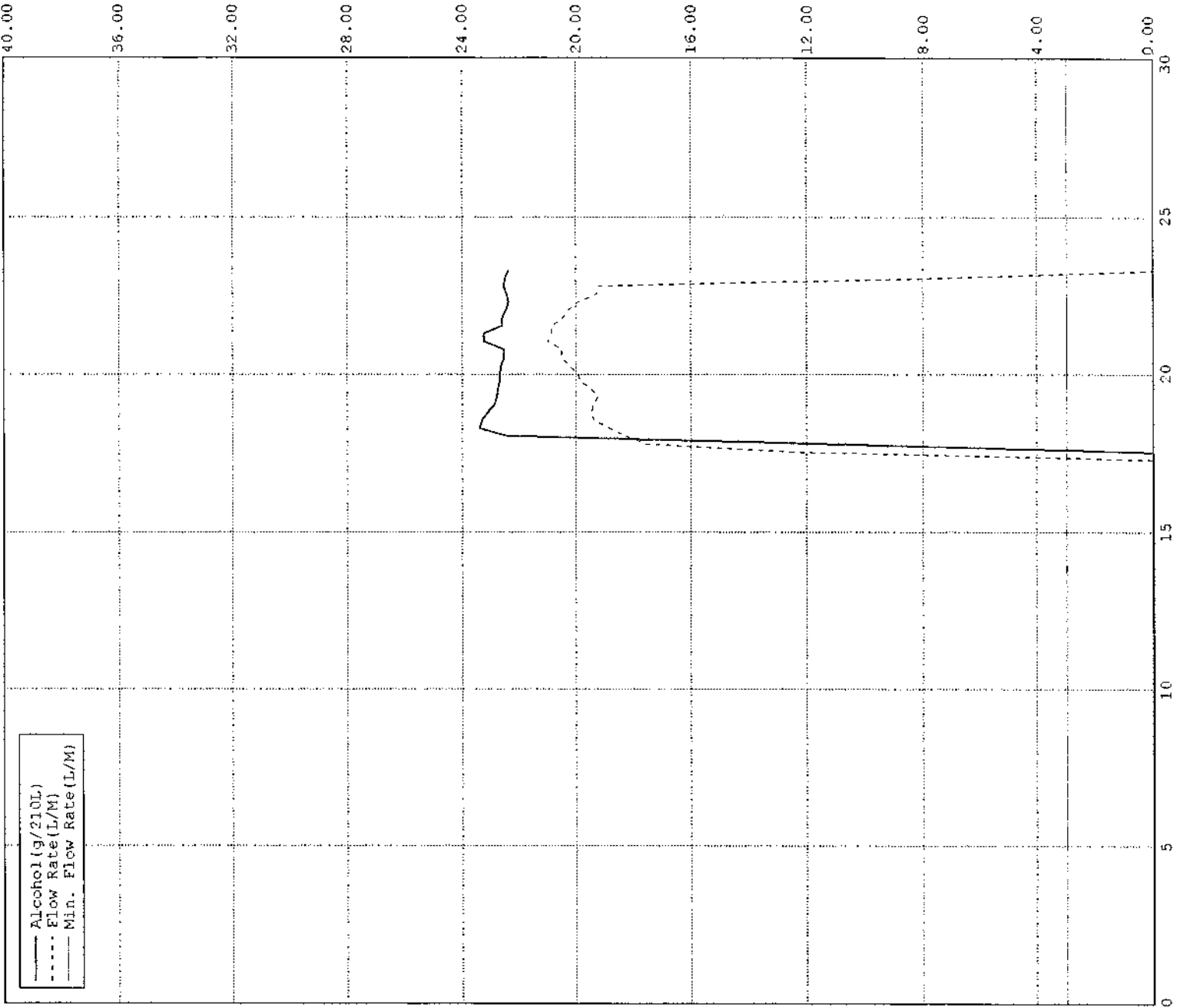
DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
Xq = 0.099 (0.98%)		
EXTERNAL STANDARD	0.077	11:17
X[1] = 0.0772 (-0.0007)	(0.0031)	
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	XXX	11:18
X[1] = 0.1124 (-0.0226)	(0.0020)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 02/12/2018
 Time: 11:21:22

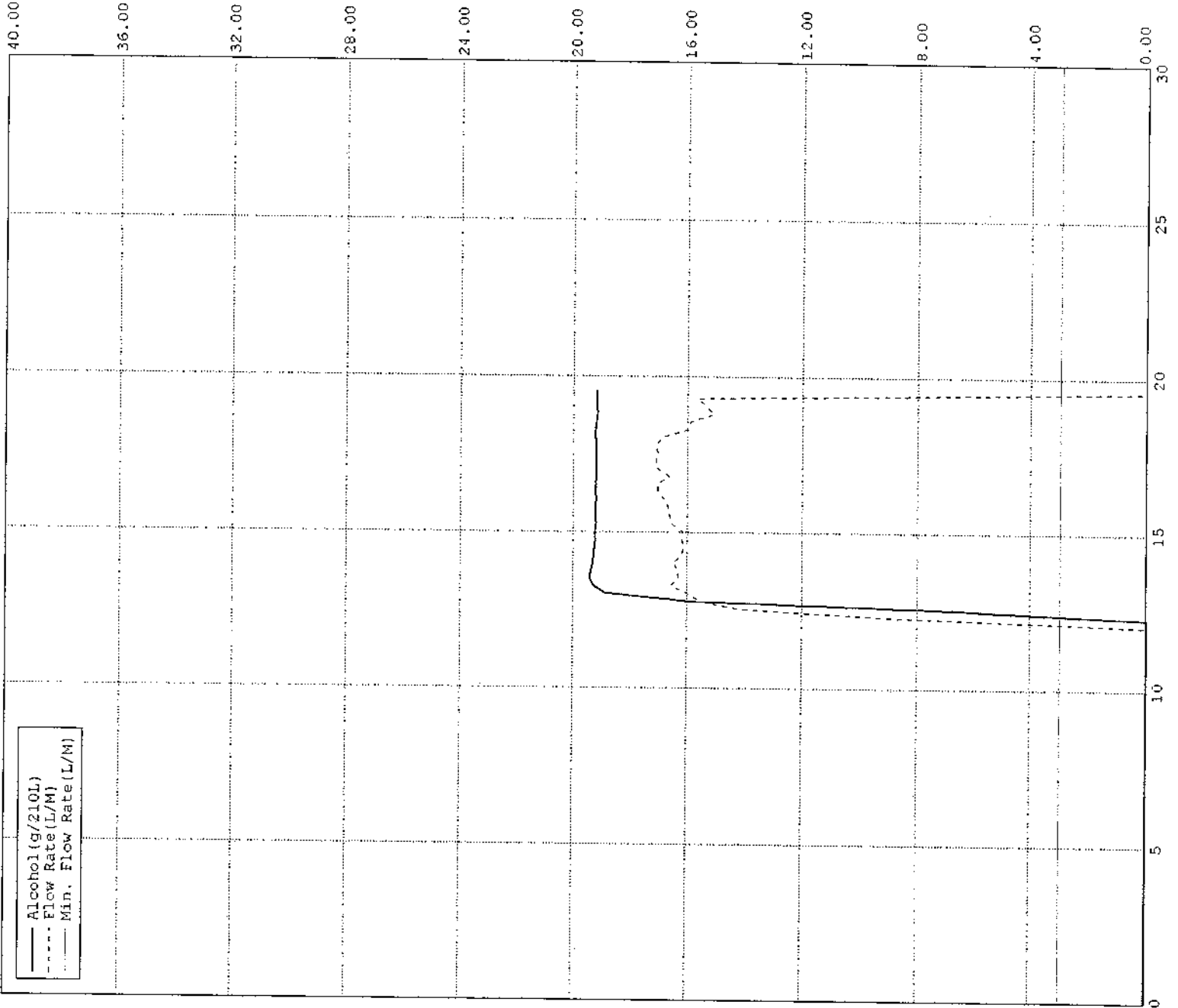
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 18-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
Xq = 0.100 (1.61%)		
EXTERNAL STANDARD	0.078	11:22
X{1} = 0.0775 (-0.0004)	(0.0027)	
BLANK TEST	0.000	11:23
SUBJECT SAMPLE (Vol=1.94L)	0.096	11:24
X[1] = 0.0966 (0.0007)	(0.0019)	
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.077	11:25
X[1] = 0.0772 (-0.0005)	(0.0021)	
BLANK TEST	0.000	11:26



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 13:14:24

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

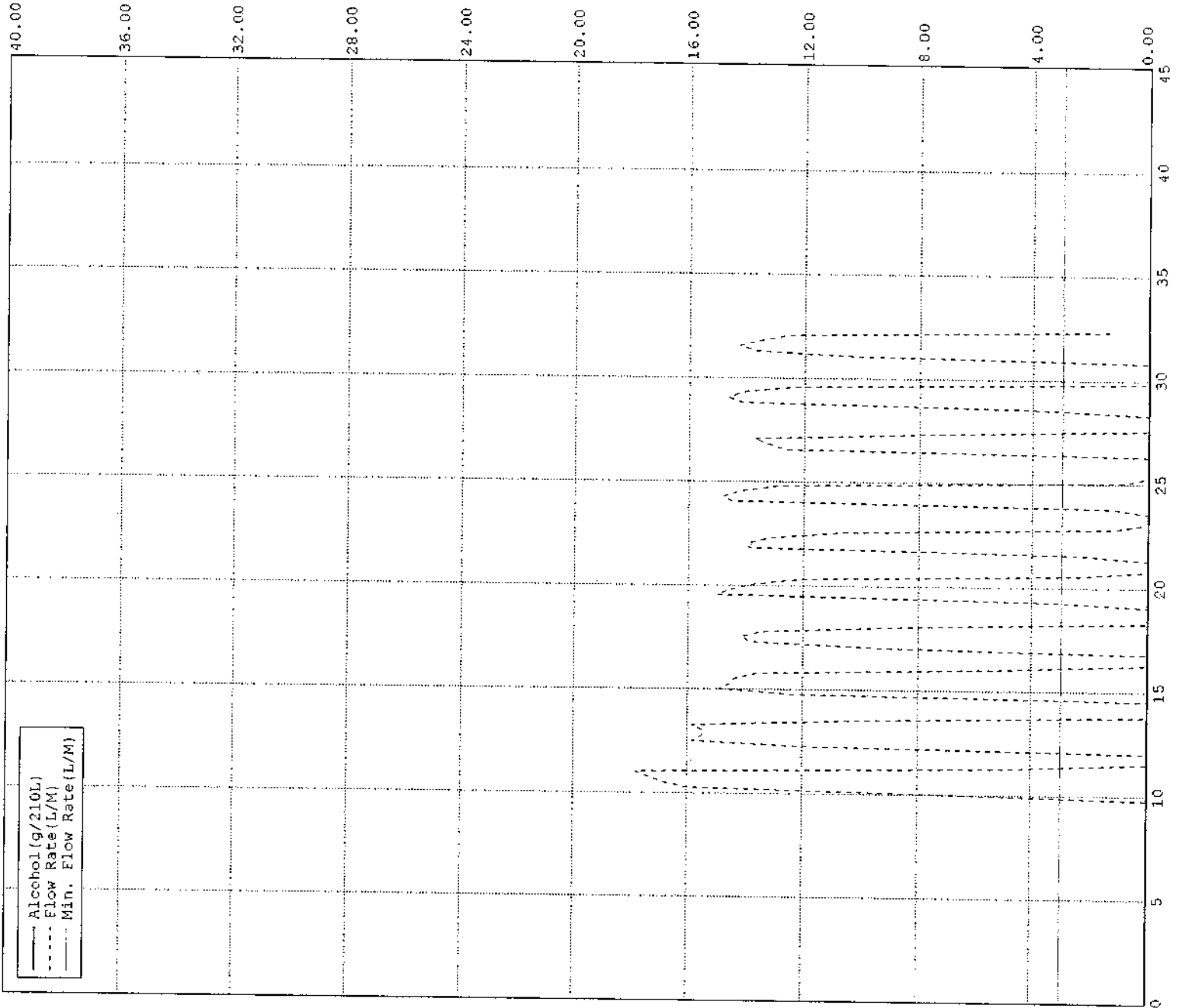
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:15
BLANK TEST 0.000 13:15
INTERNAL STANDARD VERIFIED 13:15
EXTERNAL STANDARD 0.078 13:16
BLANK TEST 0.000 13:16
SUBJECT SAMPLE XXX 13:17

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/12/2018
Time: 13:25:53

SUBJECT NAME:
TEST TEST
LICENSE #: REI

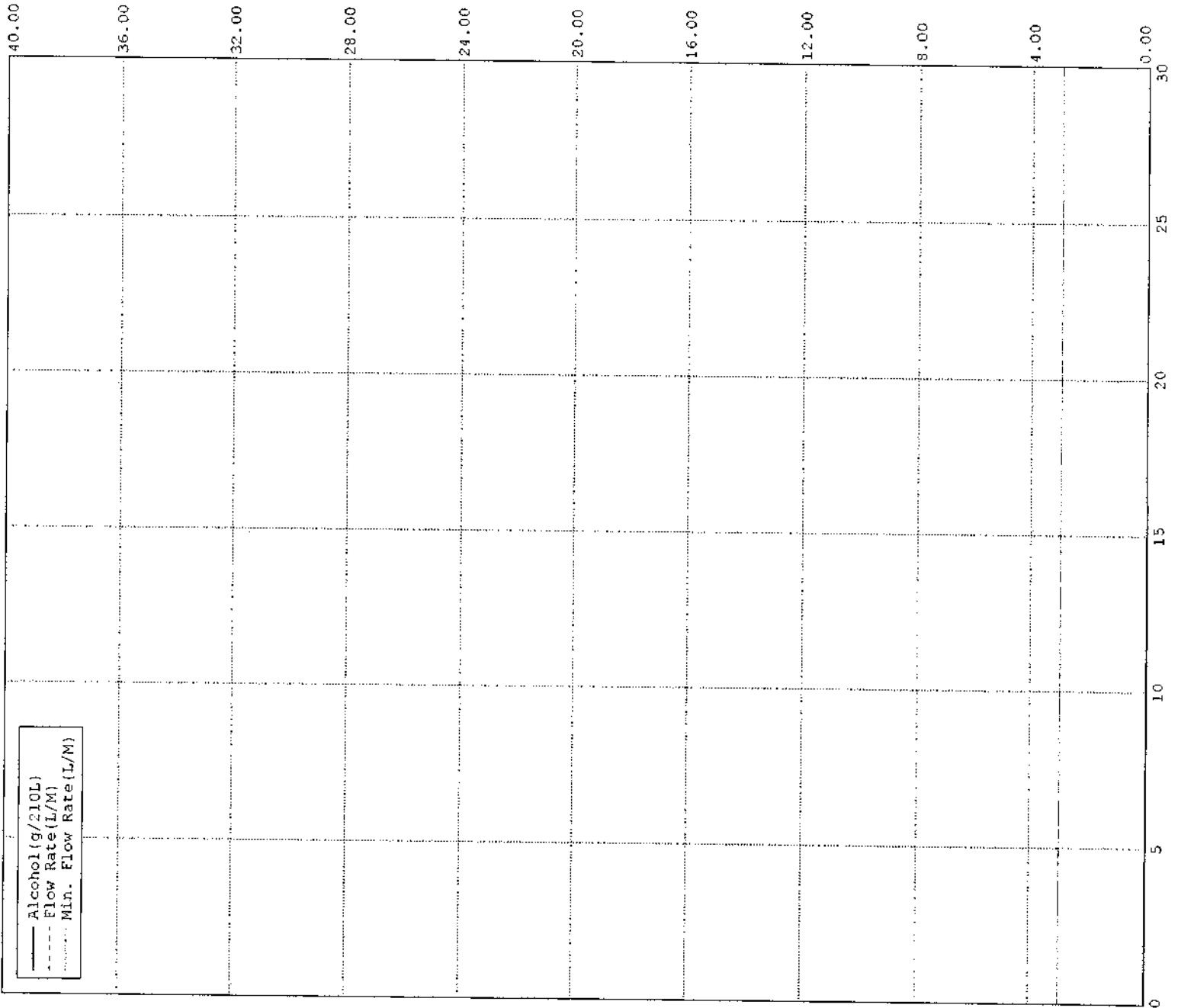
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:27
BLANK TEST 0.000 13:27
INTERNAL STANDARD VERIFIED 13:27
EXTERNAL STANDARD 0.077 13:28
BLANK TEST 0.000 13:29

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DAYMASTER dmt: 100387

Date: 02/12/2018
Time: 13:50:52

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAAJ
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:52
BLANK TEST	0.000	13:52
INTERNAL STANDARD	VERIFIED	13:52
EXTERNAL STANDARD	0.078	13:52
BLANK TEST	0.000	13:53
SUBJECT SAMPLE (Vol=1.75L)	0.000	13:54
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.078	13:55
BLANK TEST	0.000	13:56

