

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 100402 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 Argas Lot AG 616804 Exp 6/13/18

ii. 0.040g/210L Mnf Argas Lot AG 630101 Exp 10/27/18

iii. 0.080g/210L Mnf Argas Lot AG 634001 Exp 12/5/18

iv. 0.100g/210L Mnf Argas Lot AG 629304 Exp 10/19/18

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

1. Simulator S/N SD1200 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

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 12/7/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 08:41:15

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.11 V - 2.59 V)
Cooler Voltage = 1.66 V PASSED
(0.95 V - 2.23 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 530 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.735 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 = 0.084 (2.11%) (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 8:43 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.3°C

Current Barometer 29.4 in
Volume (Ltr) 1.59

Settings

Lamp: 1.82 V
Bias: 80 V
Cooler: 1.71 V
Chopper: 530 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.089 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/12/2015
Time: 13:14:12

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.938109 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0064 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.0825 0.0500 <= Xq < 0.2000
a21 = 1.169275 1.050 <= a21 < 1.300
a31 = 0.370388 0.300 <= a31 < 0.800

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100402

 Date: 12/07/2017
 Time: 08:44:42

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

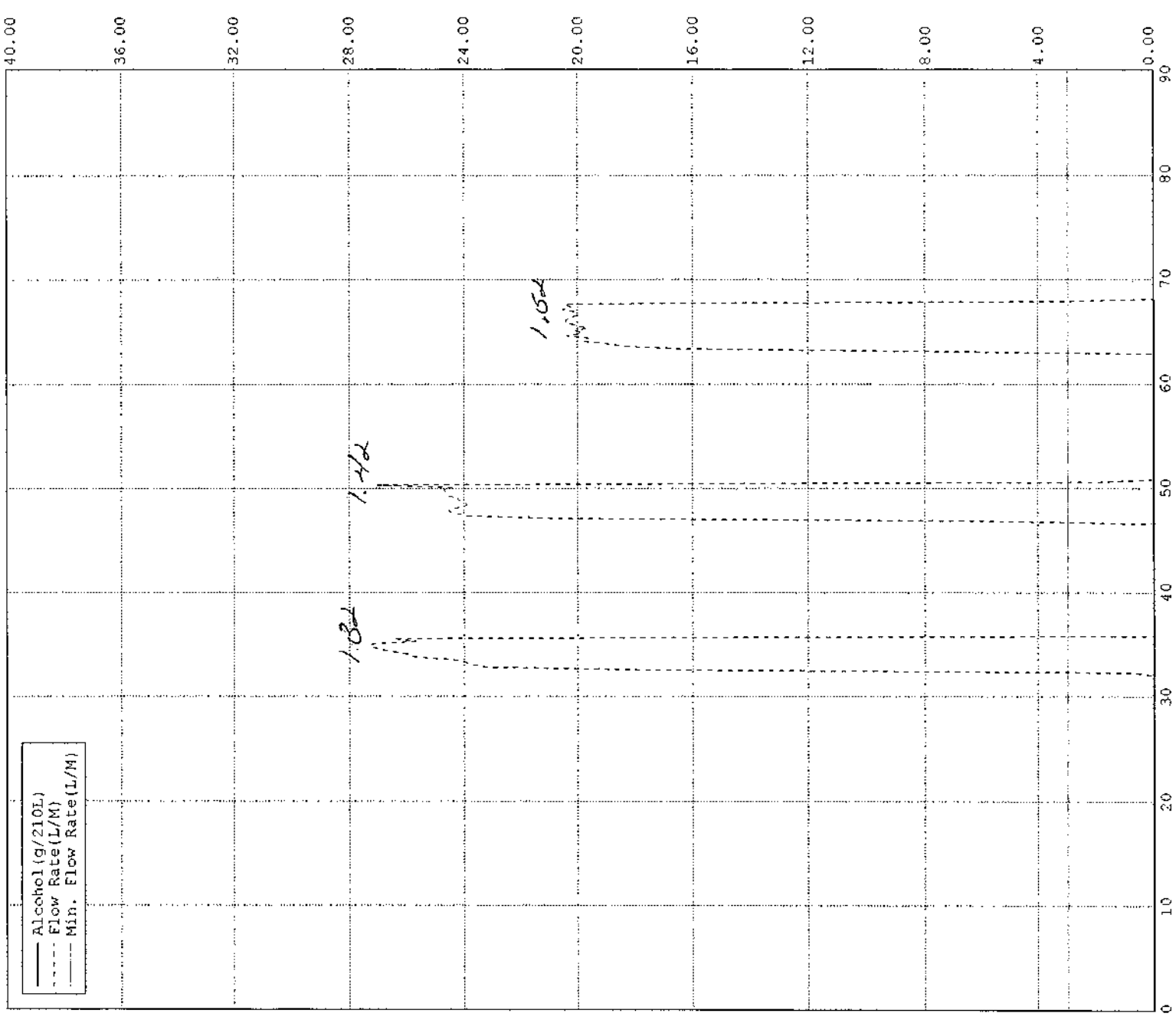
DEPT/AGENCY:
 AAAA

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.36: 0.079
 LOT #: AG634001
 EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	08:45
BLANK TEST	0.000	08:45
INTERNAL STANDARD	VERIFIED	08:45
EXTERNAL STANDARD	0.076	08:46
BLANK TEST	0.000	08:47
SUBJECT SAMPLE (Vol=1.53L)	0.000	08:48
BLANK TEST	0.076	08:49
EXTERNAL STANDARD	0.000	08:50

COB



LINEARITY CHECK

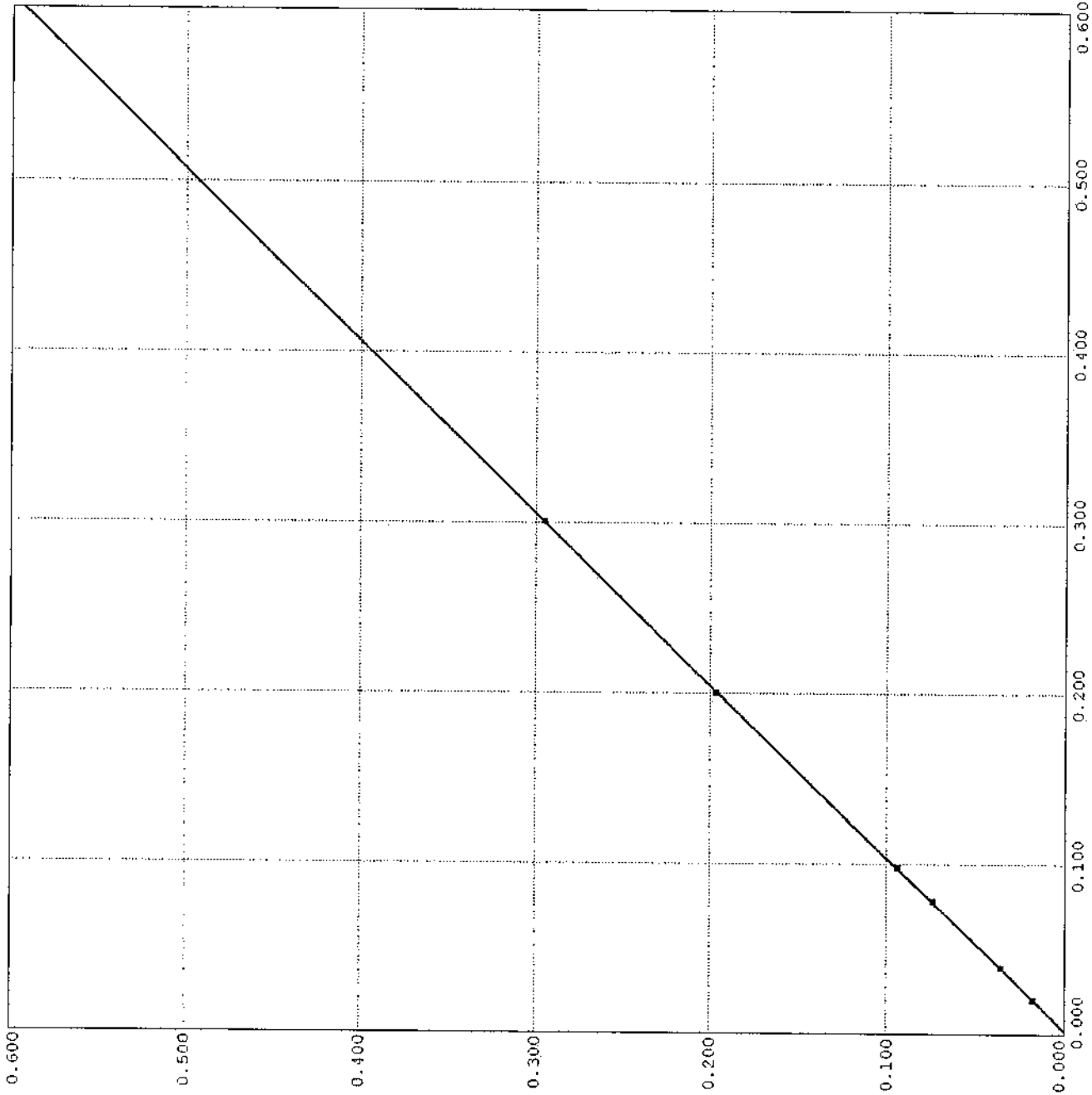
Alaska Department of Public Safety
 DAFMASTER dmt: 100402

Date: 12/07/2017
 Time: 10:50:19

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.039	0.0372	0.0004
0.078	0.0750	0.0000
0.098	0.0948	0.0004
0.200	0.1976	0.0005
0.300	0.2958	0.0004

SLOPE = 0.991892
 R² = 0.999955



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 12/07/2017
 Time: 10:50:21

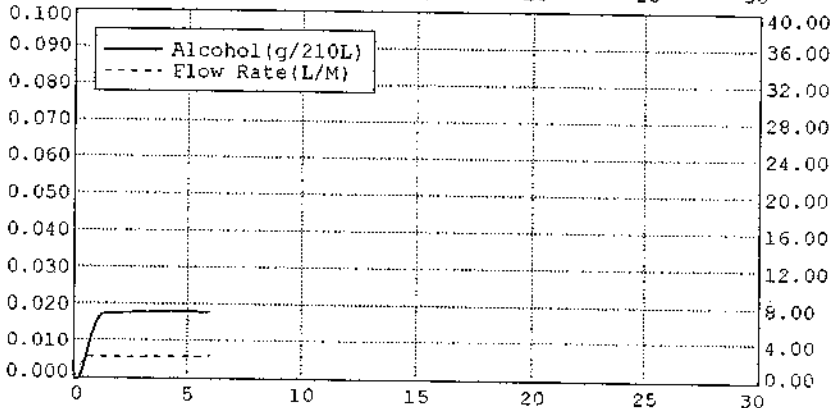
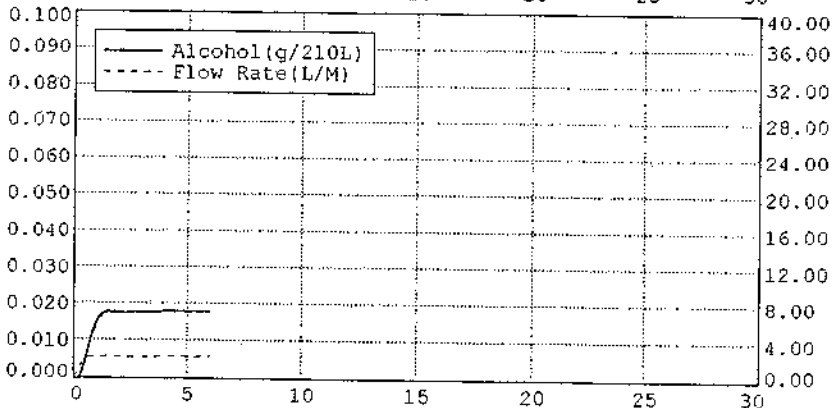
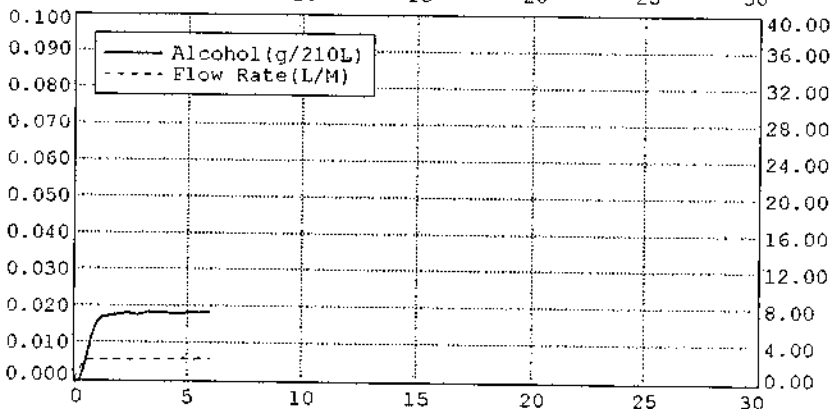
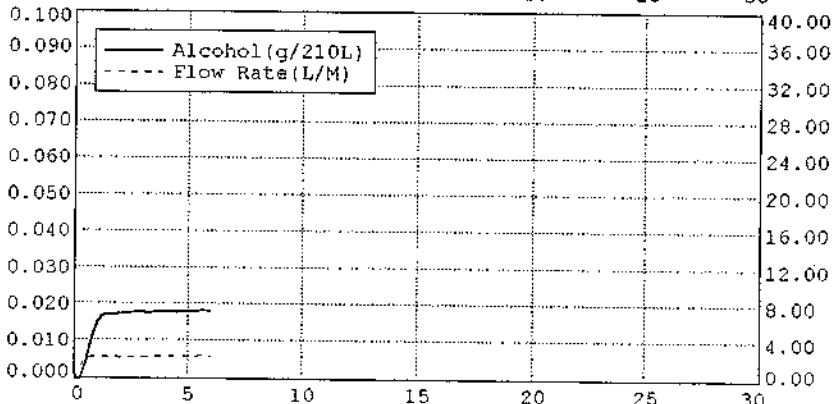
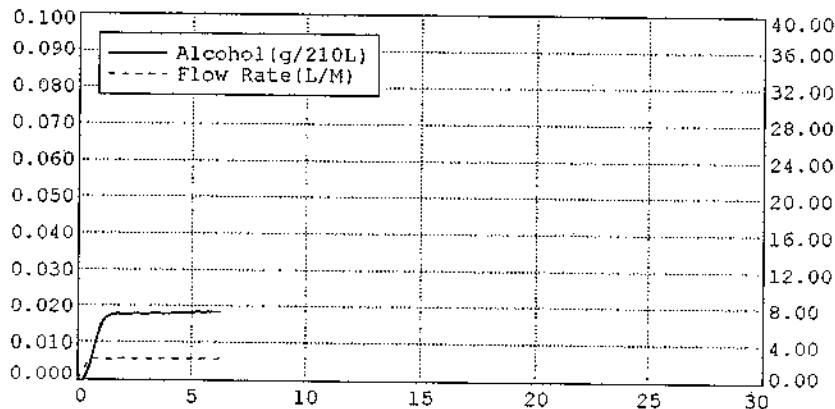
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.34: 0.020
 LOT #: AG616704
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 432 psi

008 12/11/17

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.019	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.019	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.019	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.019	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.019	11:05
BLANK TEST	0.000	11:06

Average = 0.0190
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

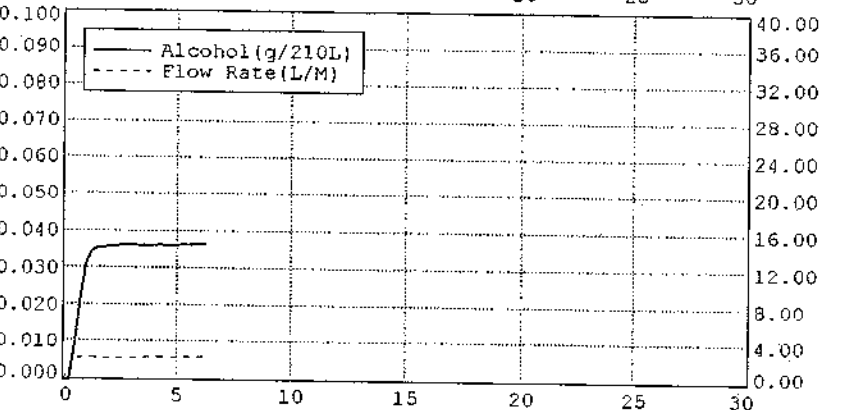
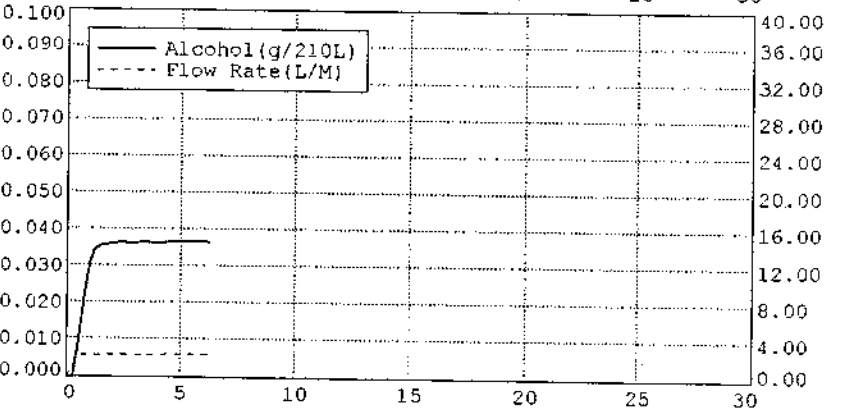
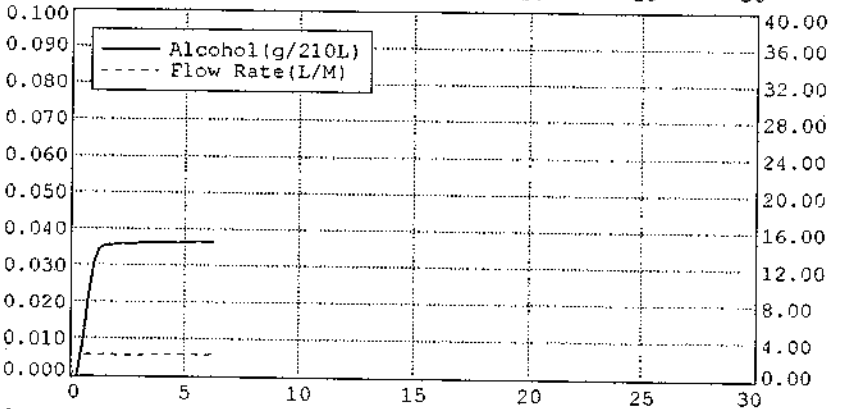
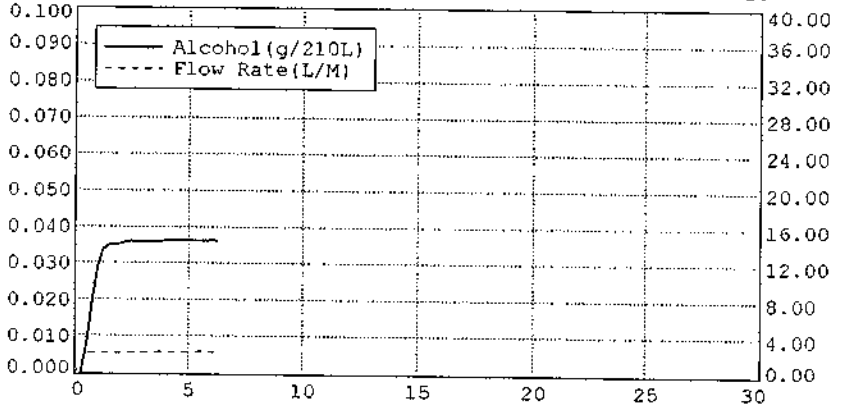
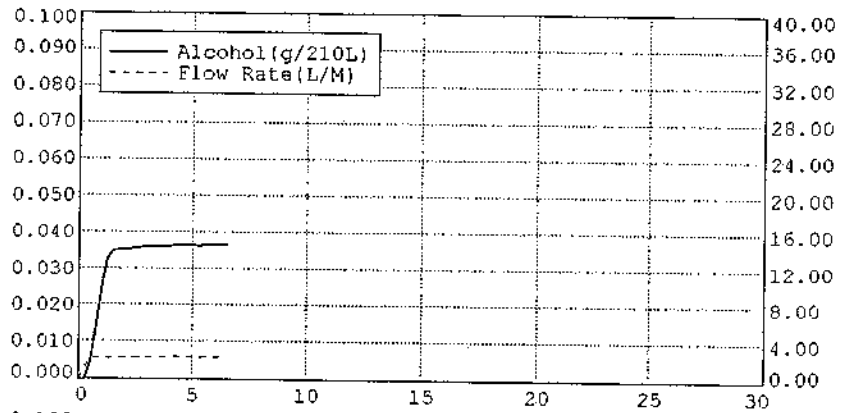
Date: 12/07/2017
 Time: 11:07:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.34: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 513 psi

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.038	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.037	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.037	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.037	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.037	11:14
BLANK TEST	0.000	11:15

Average = 0.0372
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

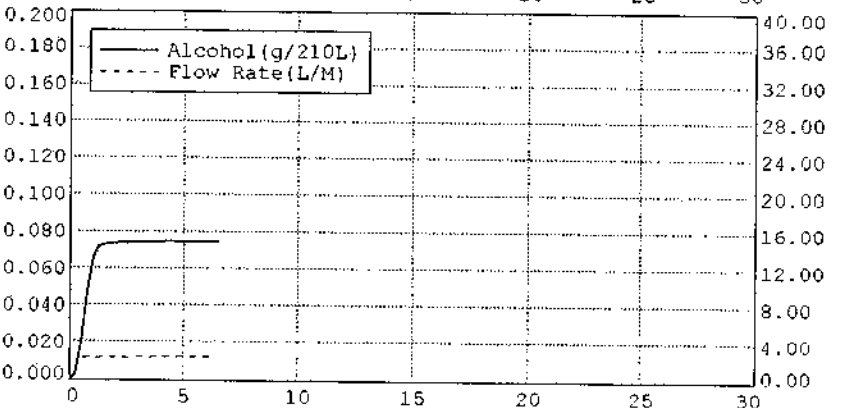
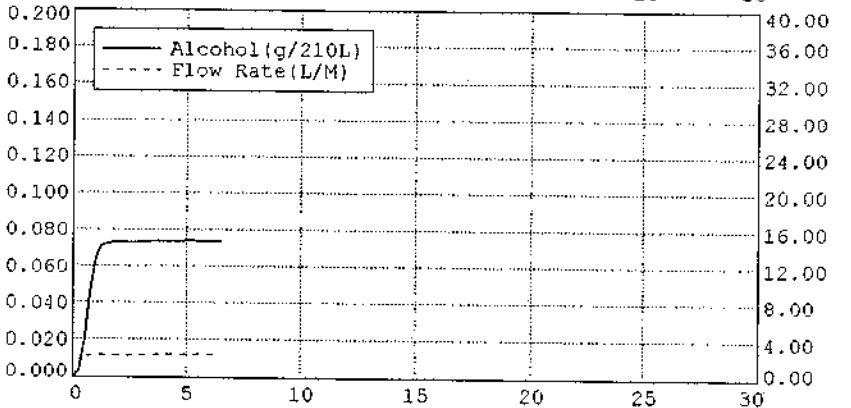
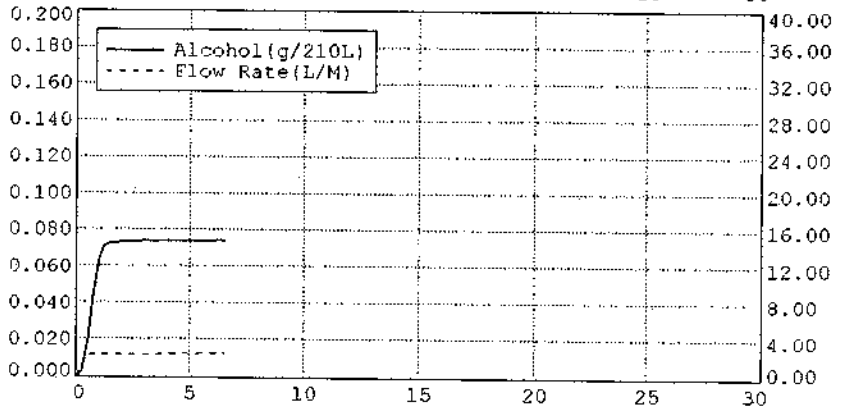
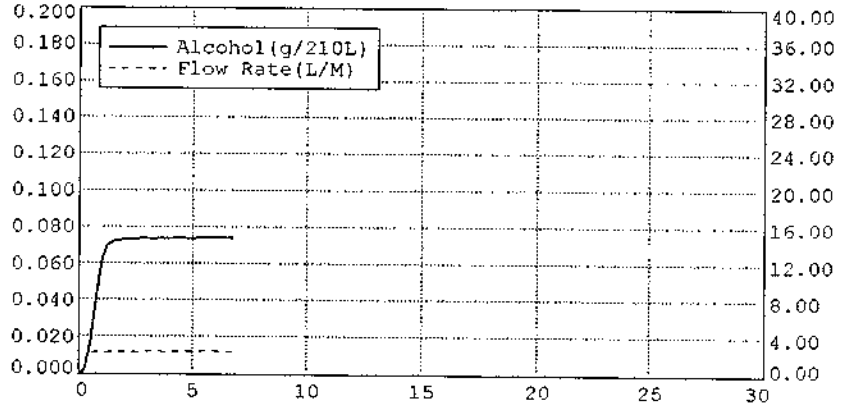
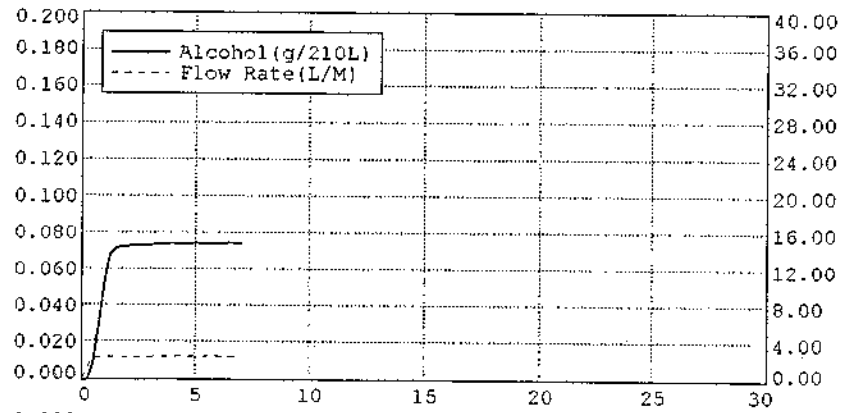
Date: 12/07/2017
 Time: 11:17:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 944 psi

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.075	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.075	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.075	11:21
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.075	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.075	11:23
BLANK TEST	0.000	11:24

Average = 0.0750
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

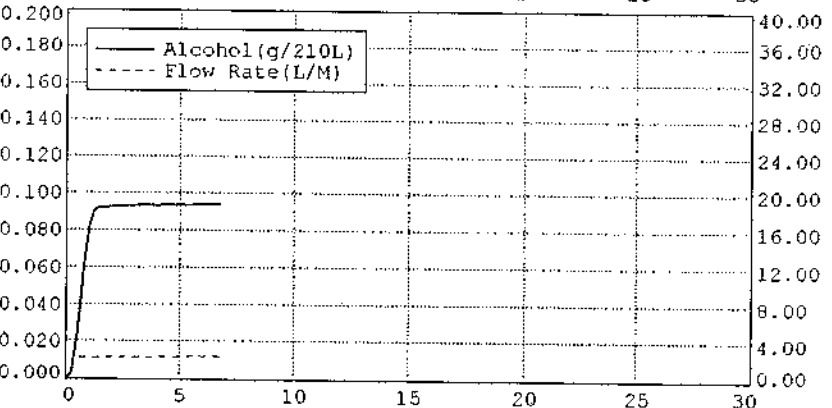
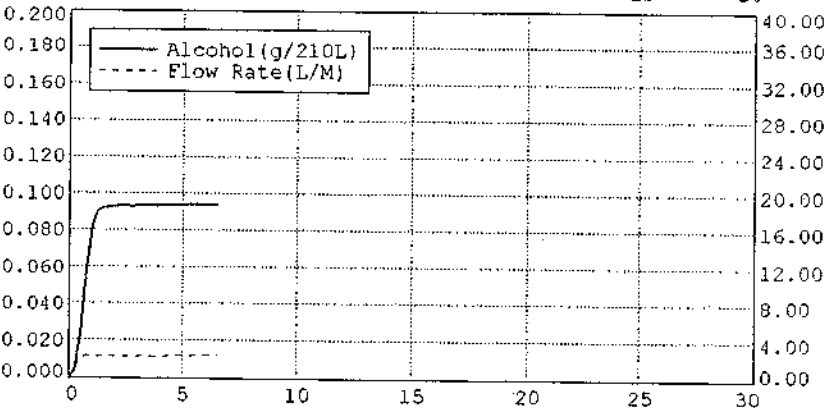
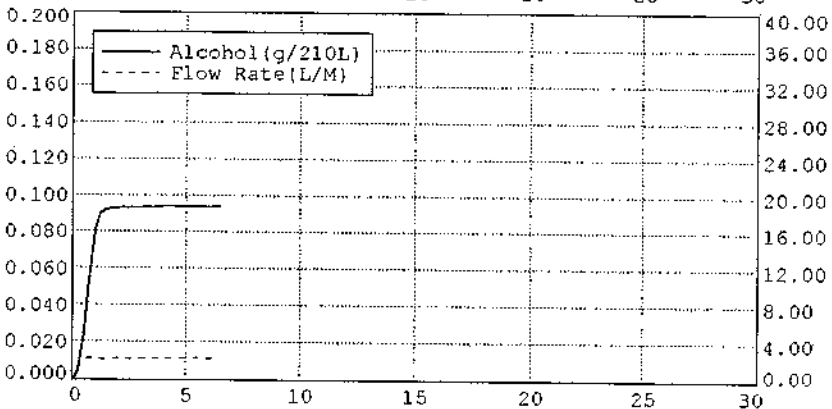
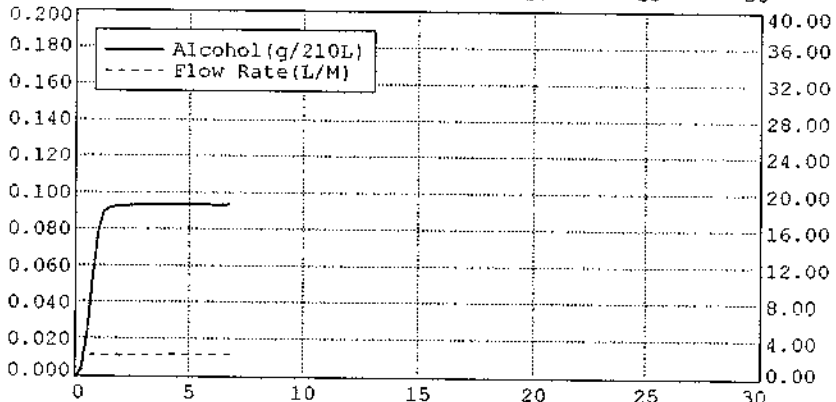
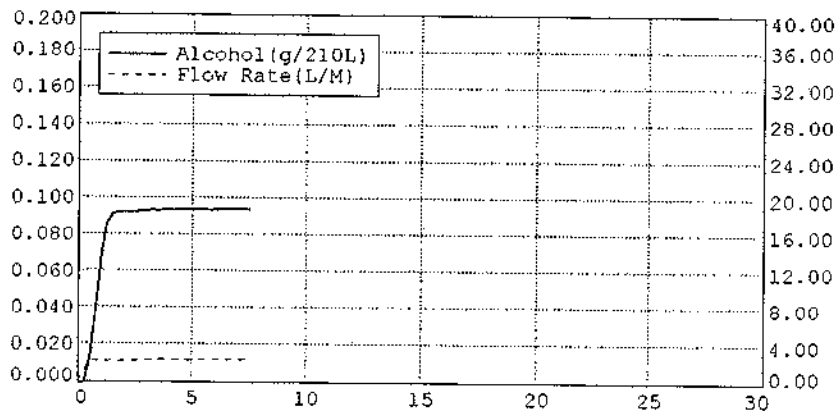
Date: 12/07/2017
 Time: 11:33:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.34: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 649 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:35
EXTERNAL STANDARD	0.095	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.095	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.095	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.095	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.094	11:39
BLANK TEST	0.000	11:40

Average = 0.0948
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

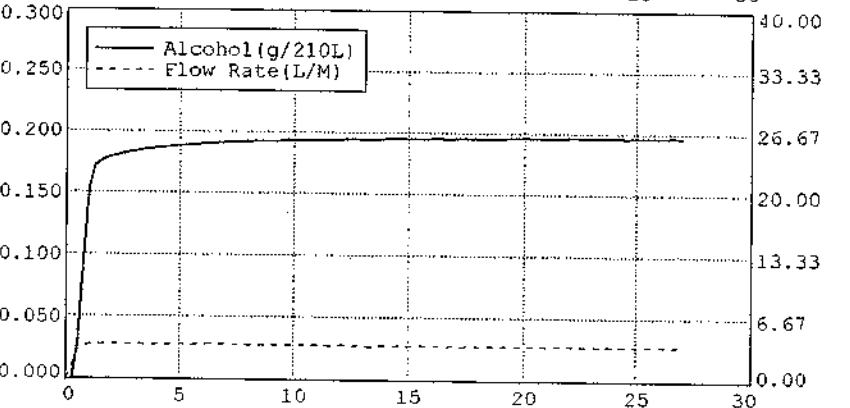
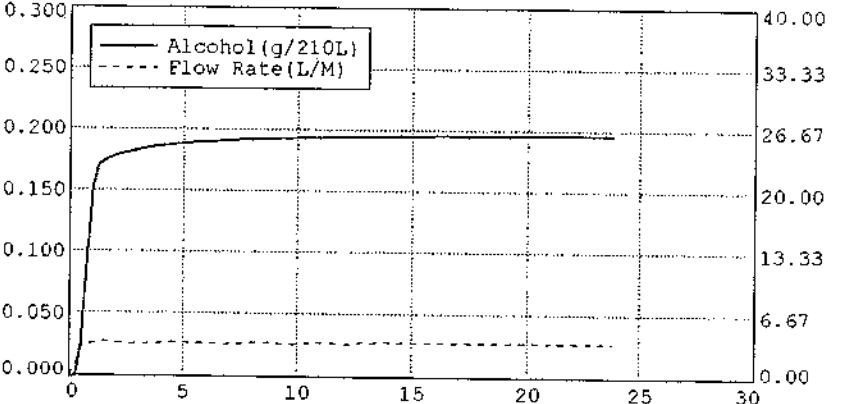
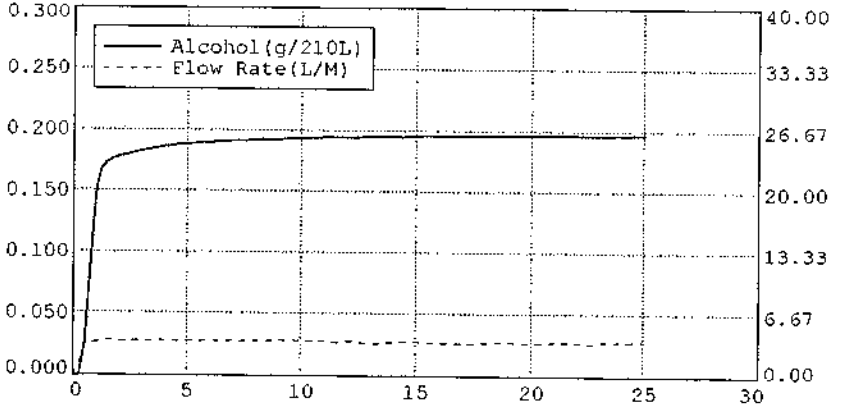
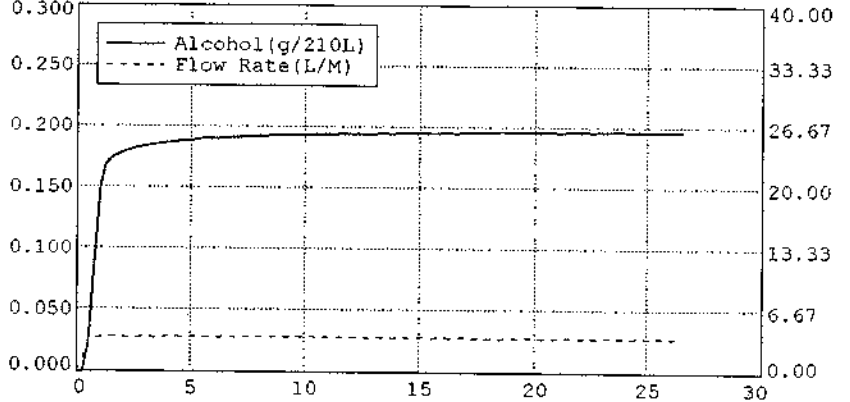
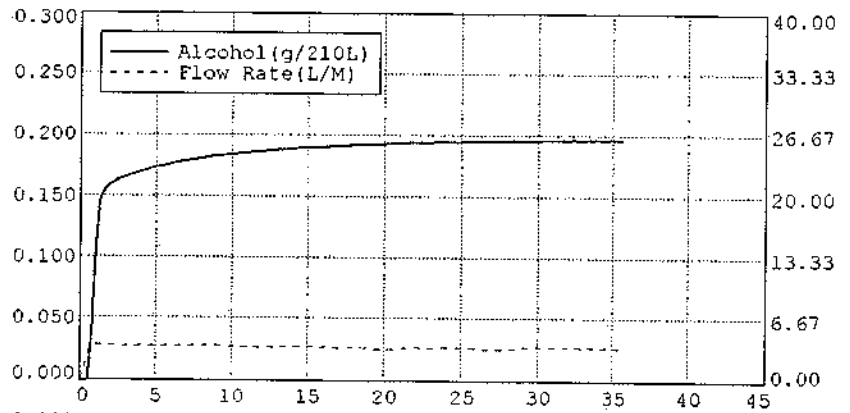
Date: 12/07/2017
 Time: 11:44:24

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
EXTERNAL STANDARD	0.198	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.197	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.198	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.197	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.198	11:52
BLANK TEST	0.000	11:53

Average = 0.1976
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

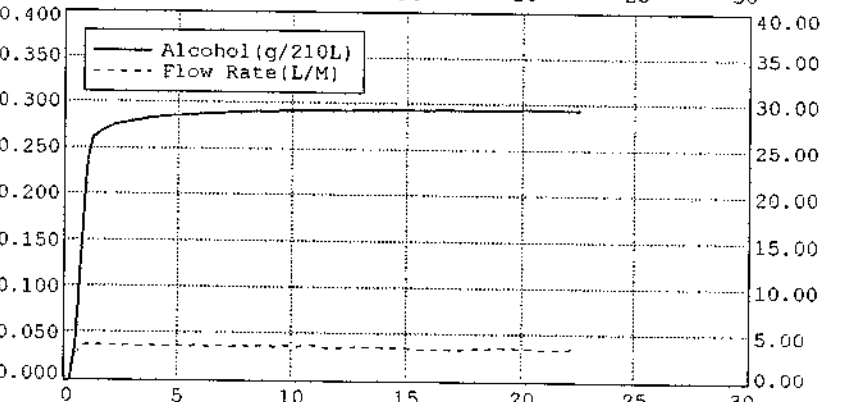
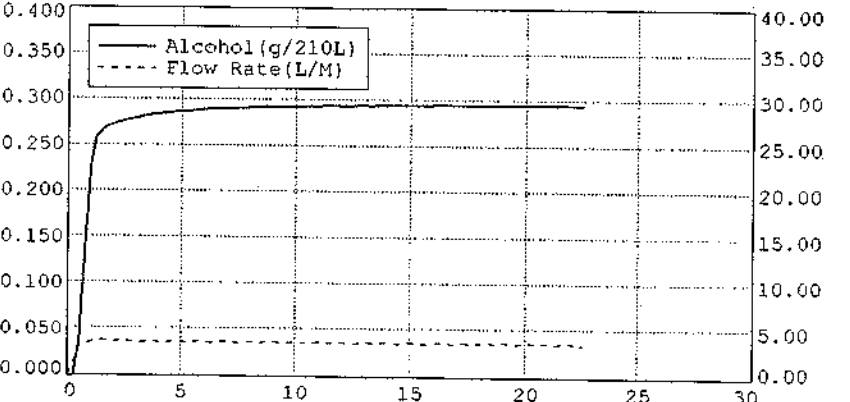
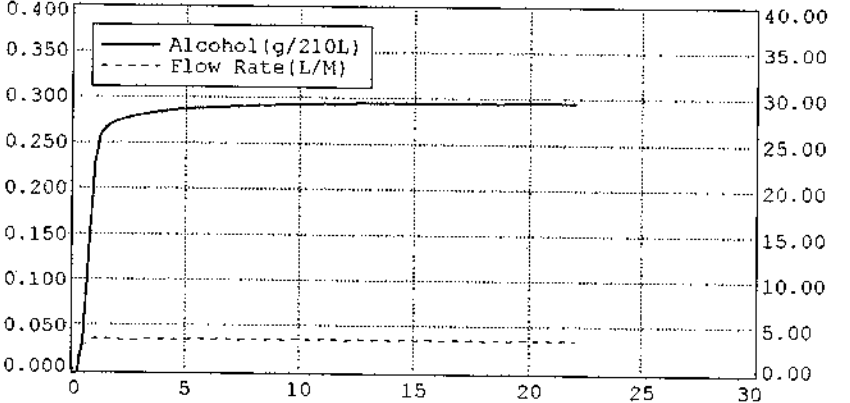
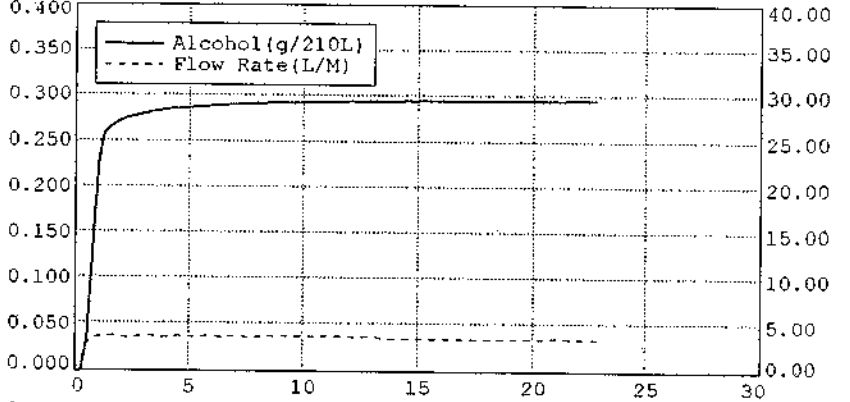
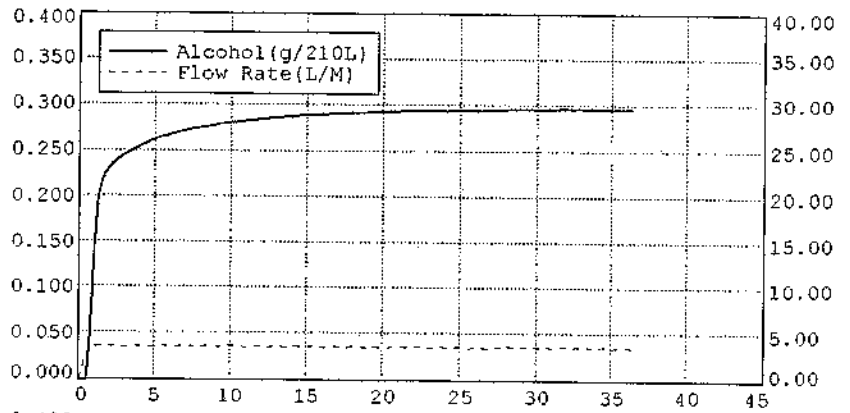
Date: 12/07/2017
 Time: 12:52:46

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.296	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.296	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.296	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.296	12:59
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.295	13:00
BLANK TEST	0.000	13:01

Average = 0.2958
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 13:06:01

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

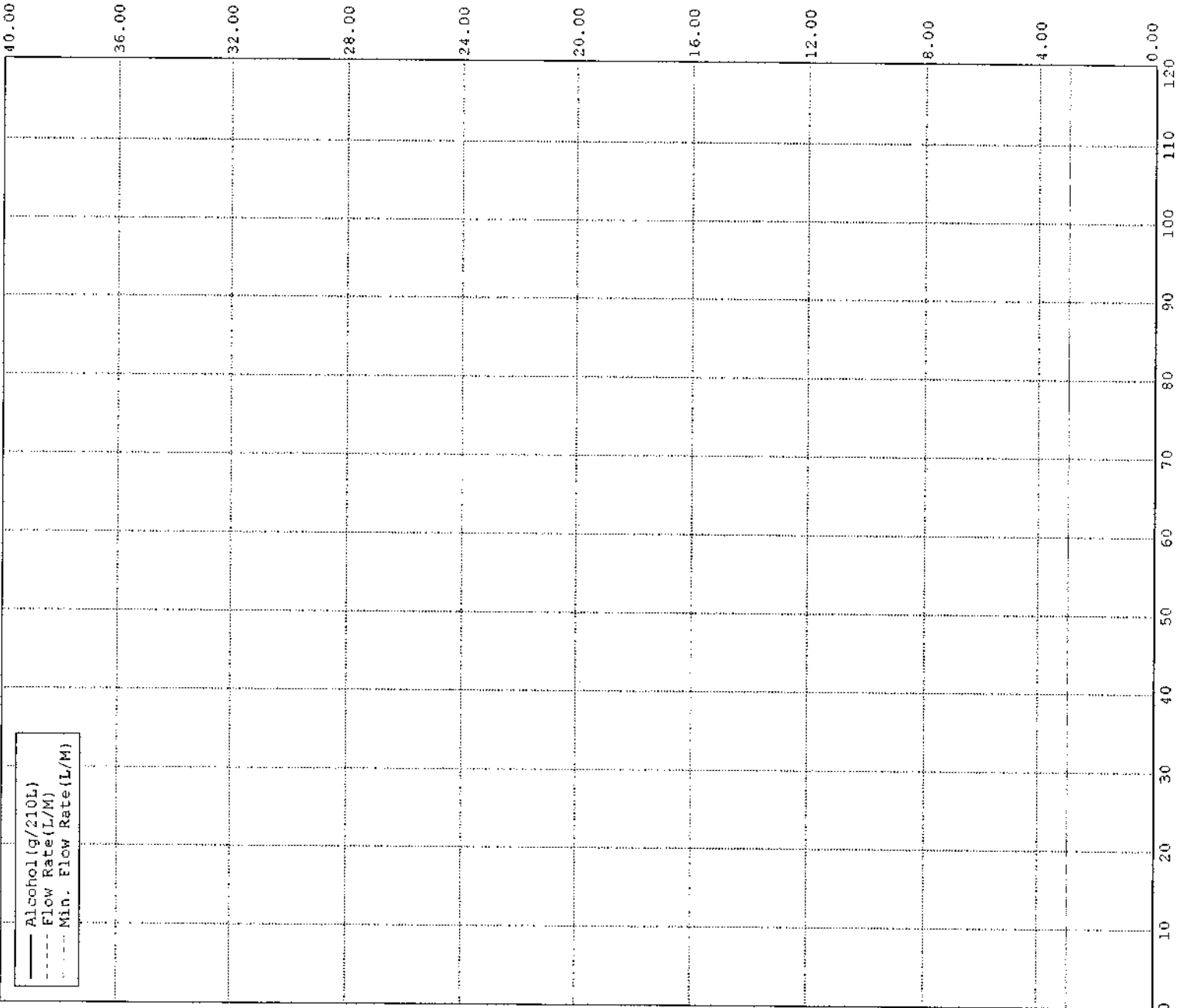
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 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 0.075 13:16
BLANK TEST 0.000 13:16
SUBJECT SAMPLE INCOMPLETE 13:19

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 13:22:27

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAAI

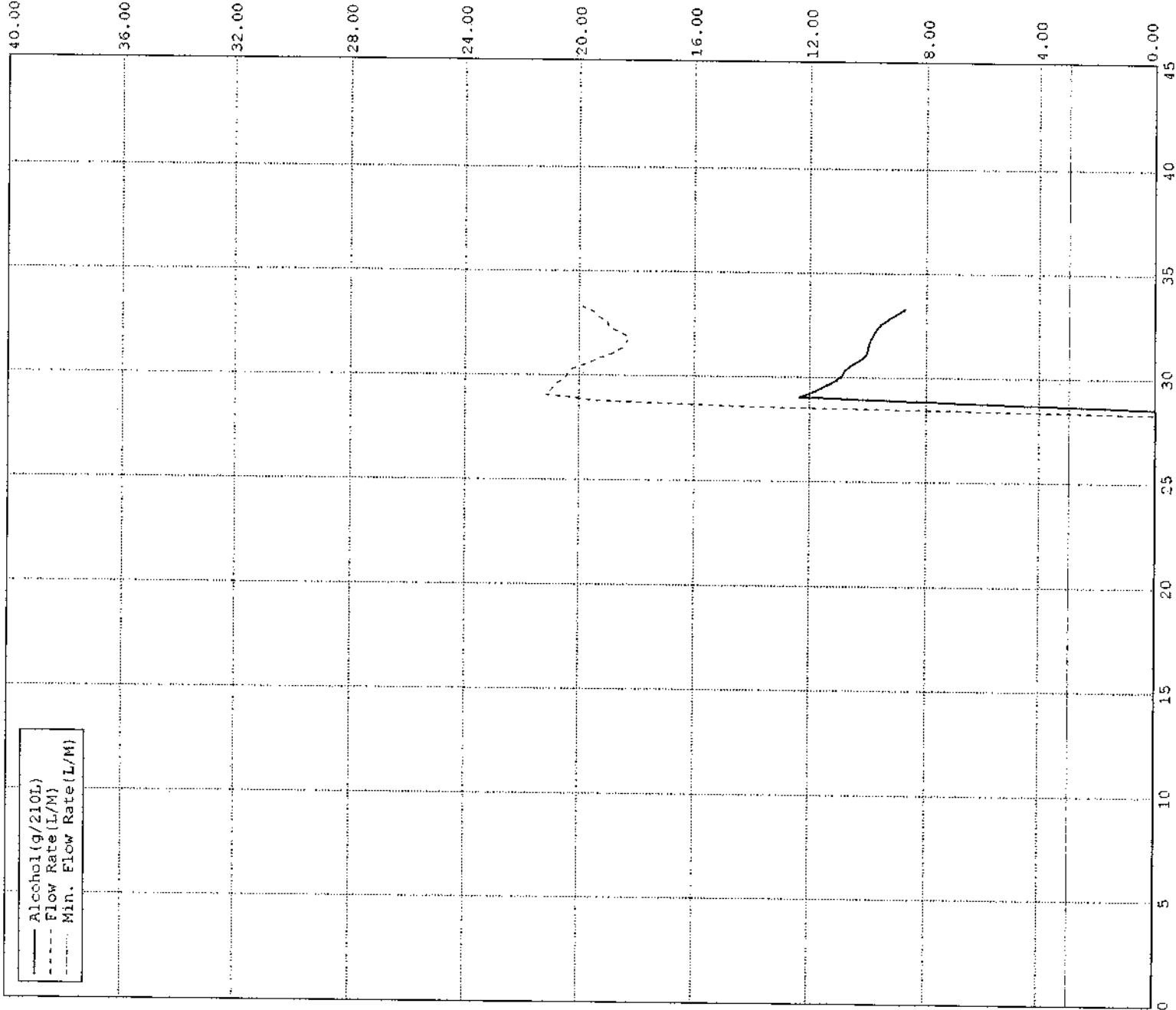
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:25
BLANK TEST 0.000 13:25
INTERNAL STANDARD VERIFIED 13:25
EXTERNAL STANDARD 0.075 13:25
BLANK TEST 0.000 13:26
SUBJECT SAMPLE INVALID 13:27

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER chmt: 100402

Date: 12/07/2017
Time: 13:31:27

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

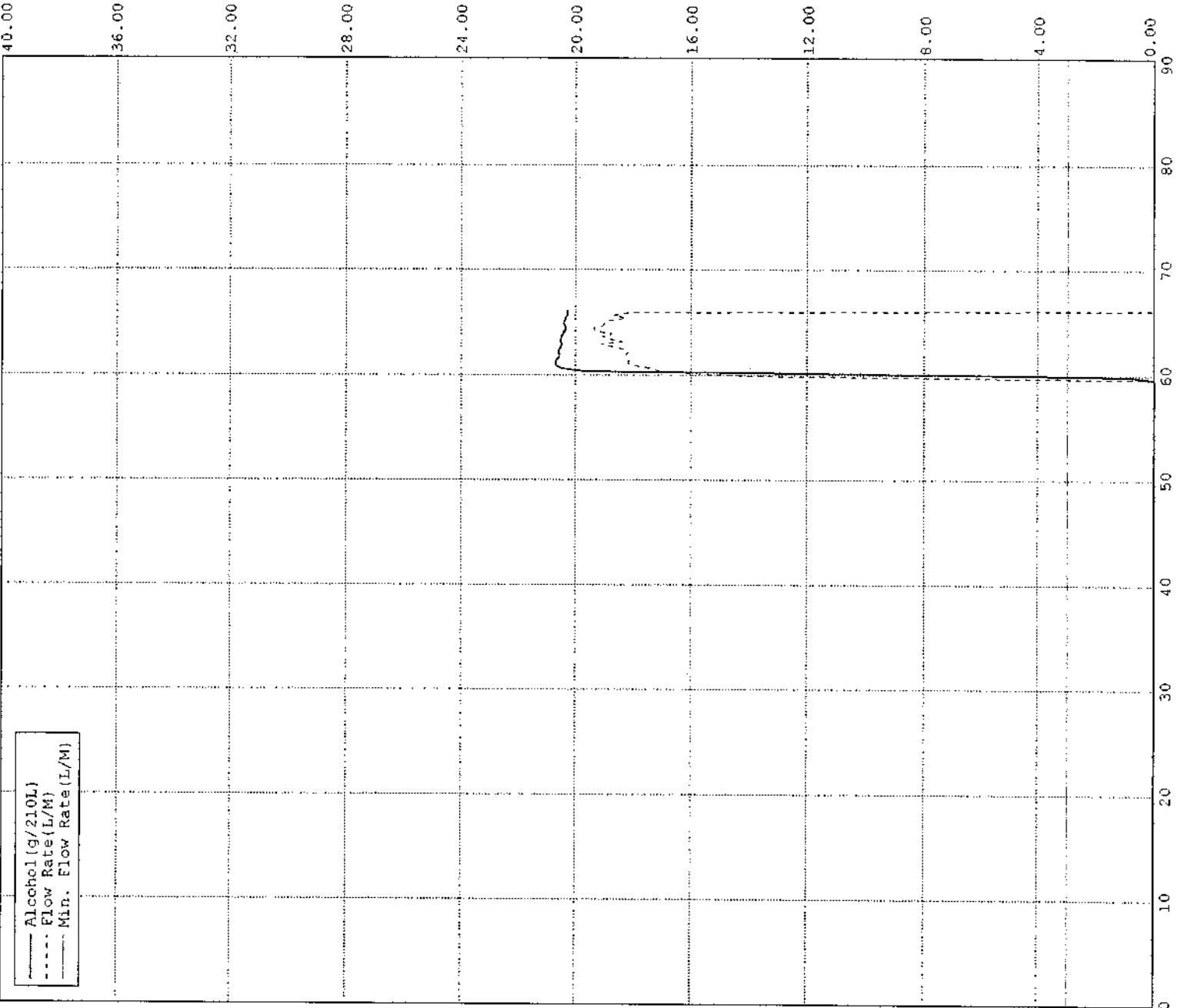
EXTERNAL STANDARD INFORMATION

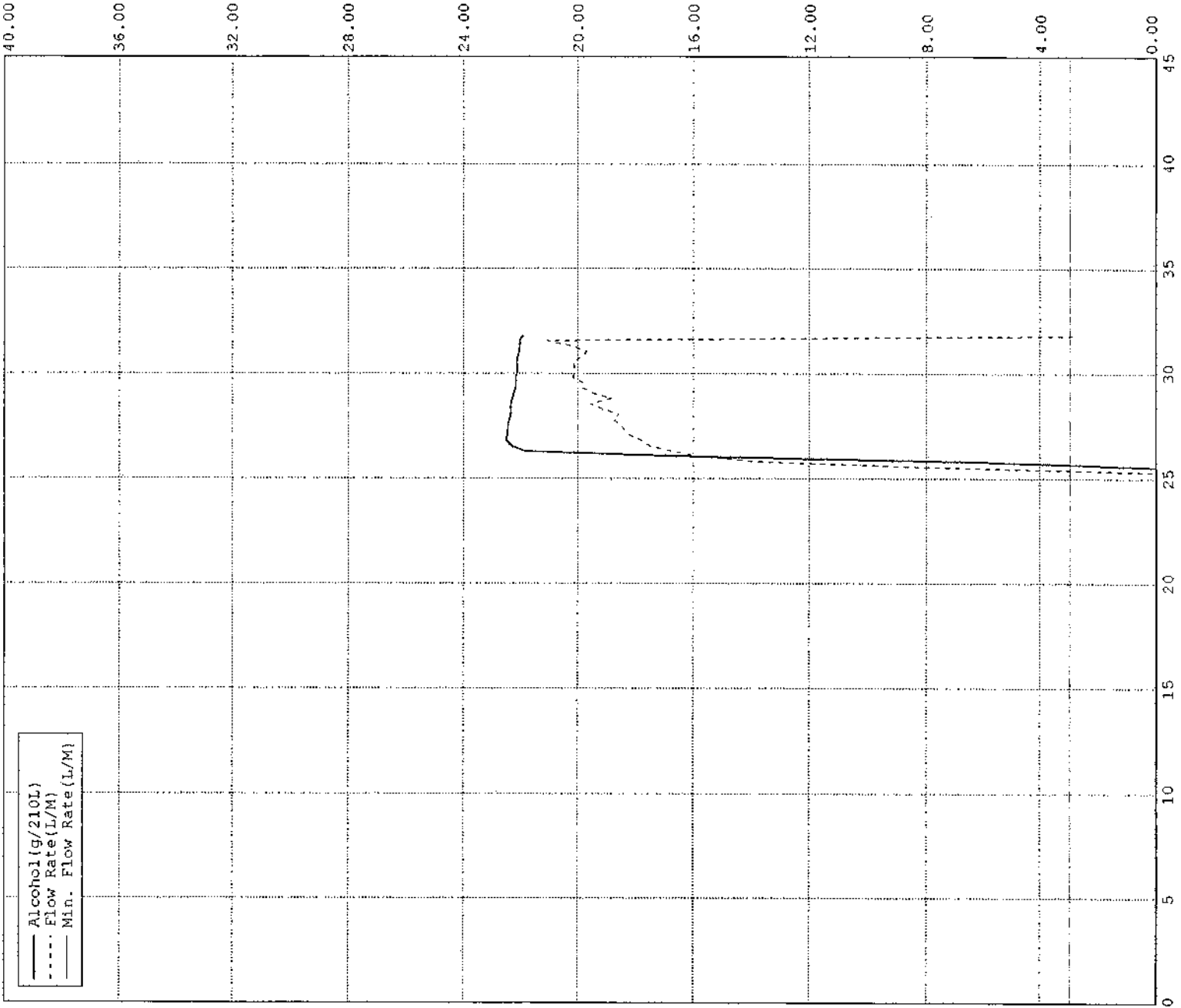
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
Xq = 0.084 (1.90%)		
EXTERNAL STANDARD	0.075	13:36
X[1] = 0.0751 (-0.0023)	(0.0020)	
BLANK TEST	0.000	13:37
SUBJECT SAMPLE	XXX	13:38
X[1] = 0.1019 (-0.0120)	(0.0005)	

Interference Detected

CS





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100402

 Date: 12/07/2017
 Time: 13:43:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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 29.25: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:45
BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
X _g = 0.084 (1.90%)		
EXTERNAL STANDARD	0.075	13:45
X _[1] = 0.0752 (-0.0017) (0.0021)		
BLANK TEST	0.000	13:46
SUBJECT SAMPLE	XXX	13:46
X _[1] = 0.1099 (-0.0233) (0.0022)		

Interference Detected

(VAD)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 13:52:21

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

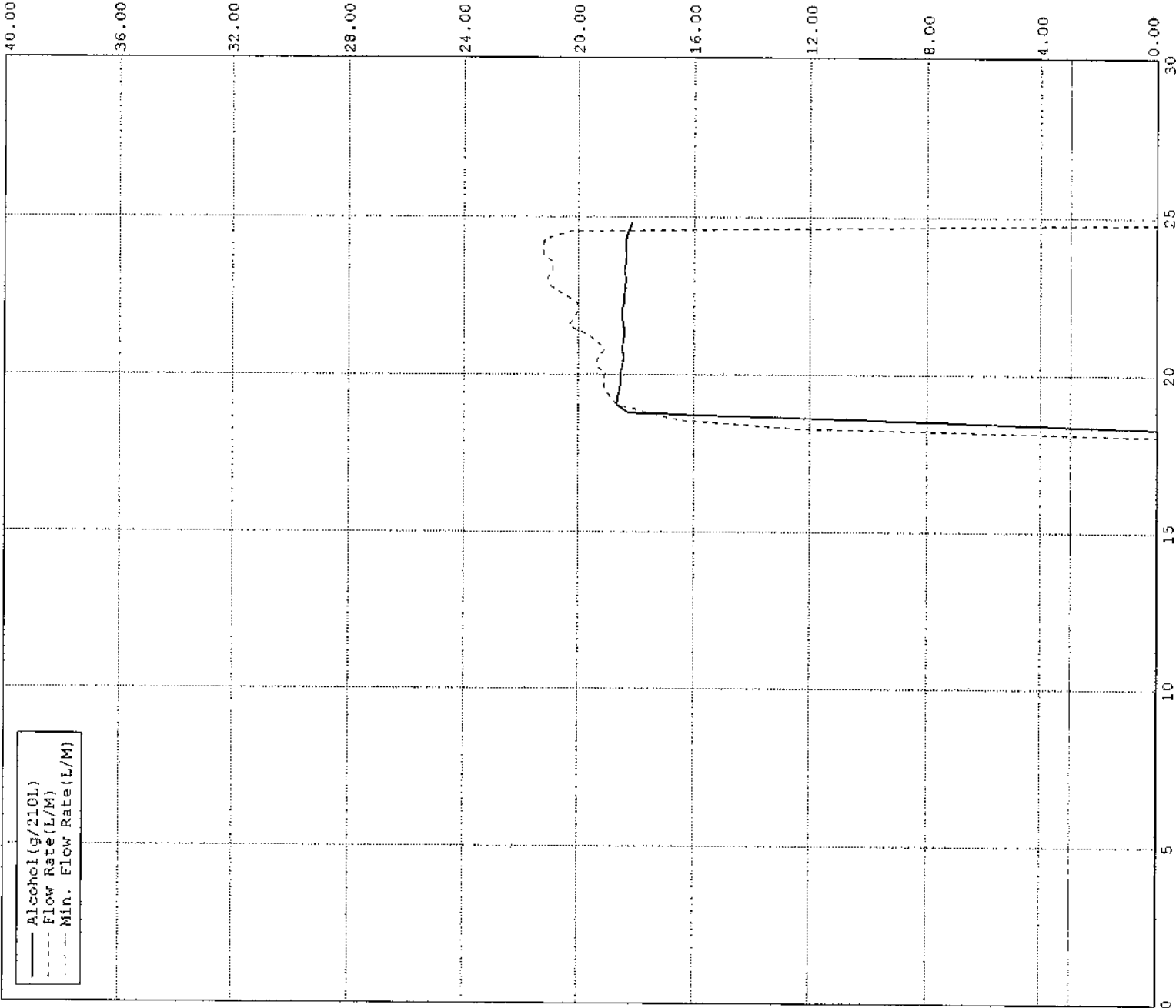
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:53
BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
$Xq = 0.084$ (1.79%)		
EXTERNAL STANDARD	0.075	13:53
$X[1] = 0.0752$ (-0.0010) (0.0028)		
BLANK TEST	0.000	13:54
SUBJECT SAMPLE (Vol=2.11L)	0.091	13:55
$X[1] = 0.0911$ (-0.0013) (0.0014)		
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.075	13:56
$X[1] = 0.0751$ (-0.0025) (0.0019)		
BLANK TEST	0.000	13:57

avg
Filter 2 = -0.0000
008 12/11/17

Filter 3 avg = 0.0000

COO



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 14:00:47

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

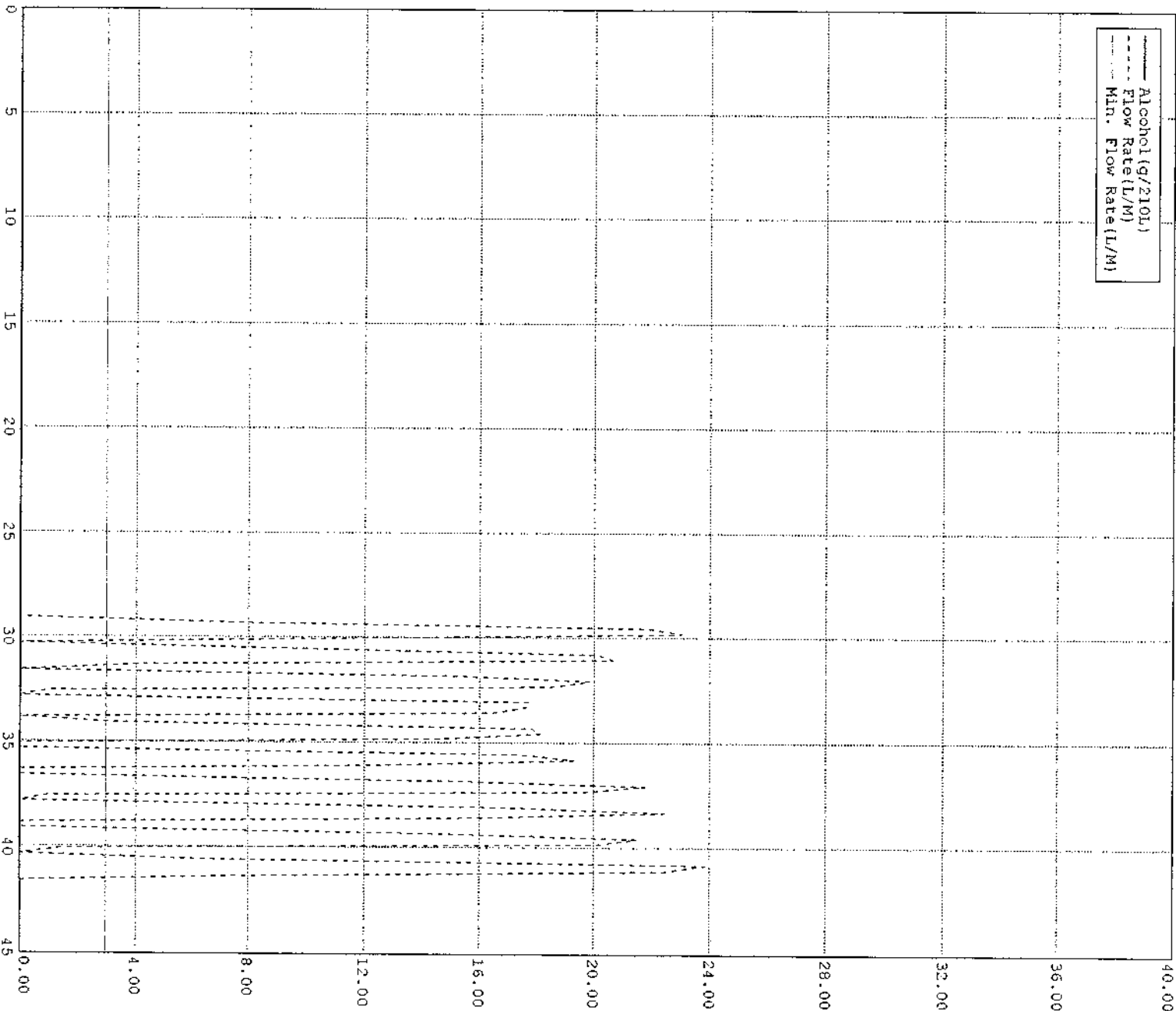
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.075	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	XXX	14:04

Maximum Attempts Exceeded

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 12/07/2017
Time: 14:09:49

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

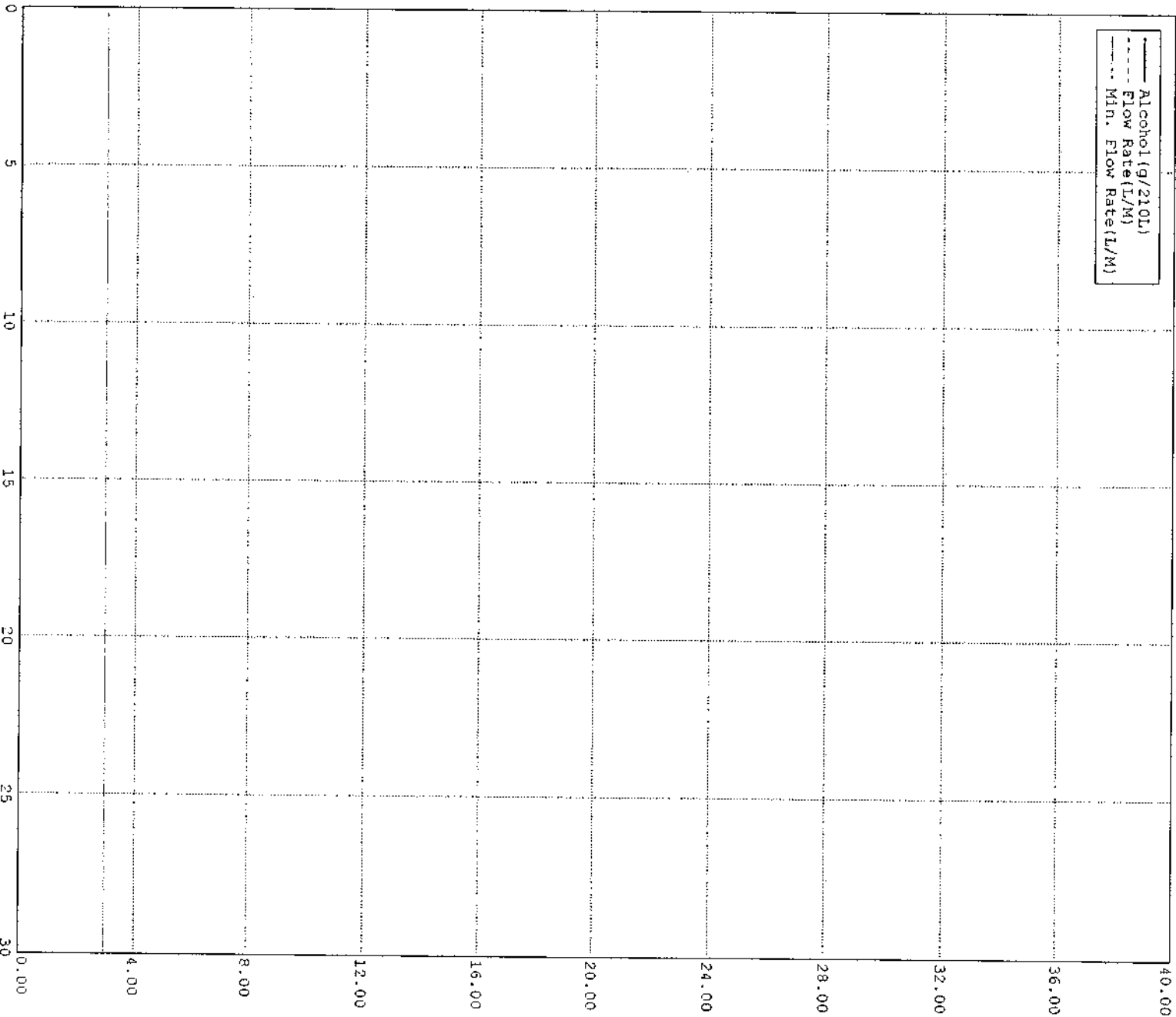
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:14
INTERNAL STANDARD 0.000 14:14
EXTERNAL STANDARD VERIFIED 14:14
BLANK TEST 0.076 14:14
0.000 14:15

RFI DETECTED

RFI



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100402

Date: 12/07/2017
Time: 14:28:25

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.075	14:30
BLANK TEST	0.000	14:31
SUBJECT SAMPLE (Vol=1.82L)	0.000	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.075	14:32
BLANK TEST	0.000	14:33

CR

