

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 100424 Analyst C. O'Bryant Start Date 6/27/17

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 Aurgas Lot AG616504 Exp 6/13/18

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

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

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

v. 0.200g/210L Mnf Guth Lot 16190 Exp 8/15/18

1. Simulator S/N DR5298 Date Calibrated 9/14/16

vi. 0.300g/210L Mnf Guth Lot 16210 Exp 8/22/18

1. Simulator S/N SD1177 Date Calibrated 9/13/16

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 SD1199 Date Calibrated 9/13/16

ii. Isopropanol - Mnf Guth Lot 16160 Level 0.100 Exp 7/19/18

1. Simulator S/N SD1088 Date Calibrated 9/13/16

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

1. Simulator S/N DR4161 Date Calibrated 9/14/16

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 7/3/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 06/27/2017
Time: 09:07:45

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.57 V PASSED
(0.99 V - 2.31 V)
Cooler Voltage = 1.73 V PASSED
(1.04 V - 2.42 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 3.924 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 = 0.080 1.07% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100424

Date: 06/27/2017
Time: 9:19 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 45.7°C

Current Barometer 29.7 in
Volume (Ltr) 1.51

Settings

Lamp: 1.65 V
Bias: 80 V
Cooler: 1.68 V
Chopper: 528 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.068 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 01/24/2014
Time: 07:38:53

Ca	=	0.1010		
CAL	=	0.996059	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0047	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0812	0.0500	<= Xq < 0.2000
a21	=	1.133555	1.050	<= a21 < 1.300
a31	=	0.391341	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 06/27/2017
Time: 09:21:09

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

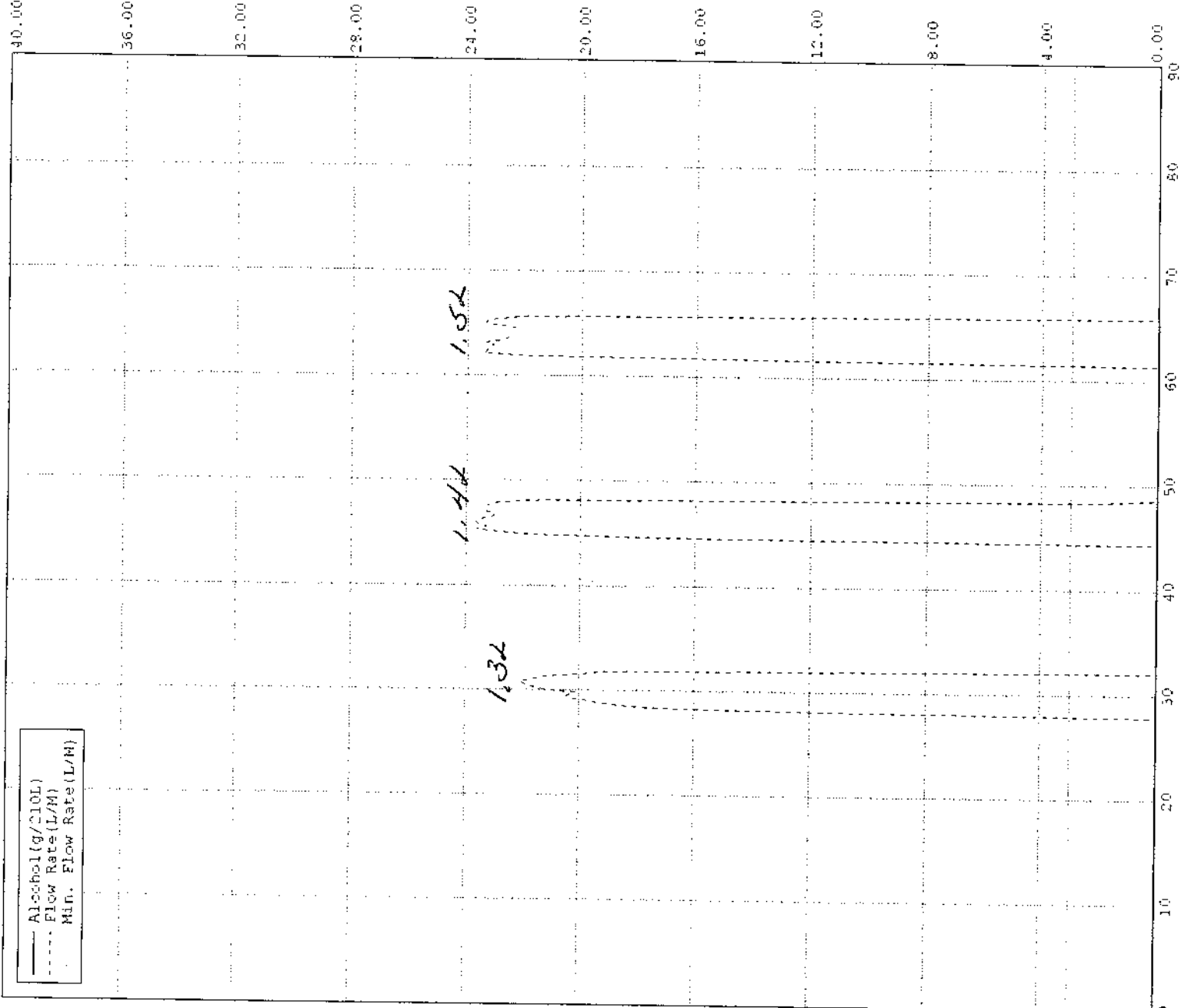
DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:22
BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:23
EXTERNAL STANDARD	0.078	09:23
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=1.581l)	0.000	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.079	09:26
BLANK TEST	0.000	09:27



LINEARITY CHECK

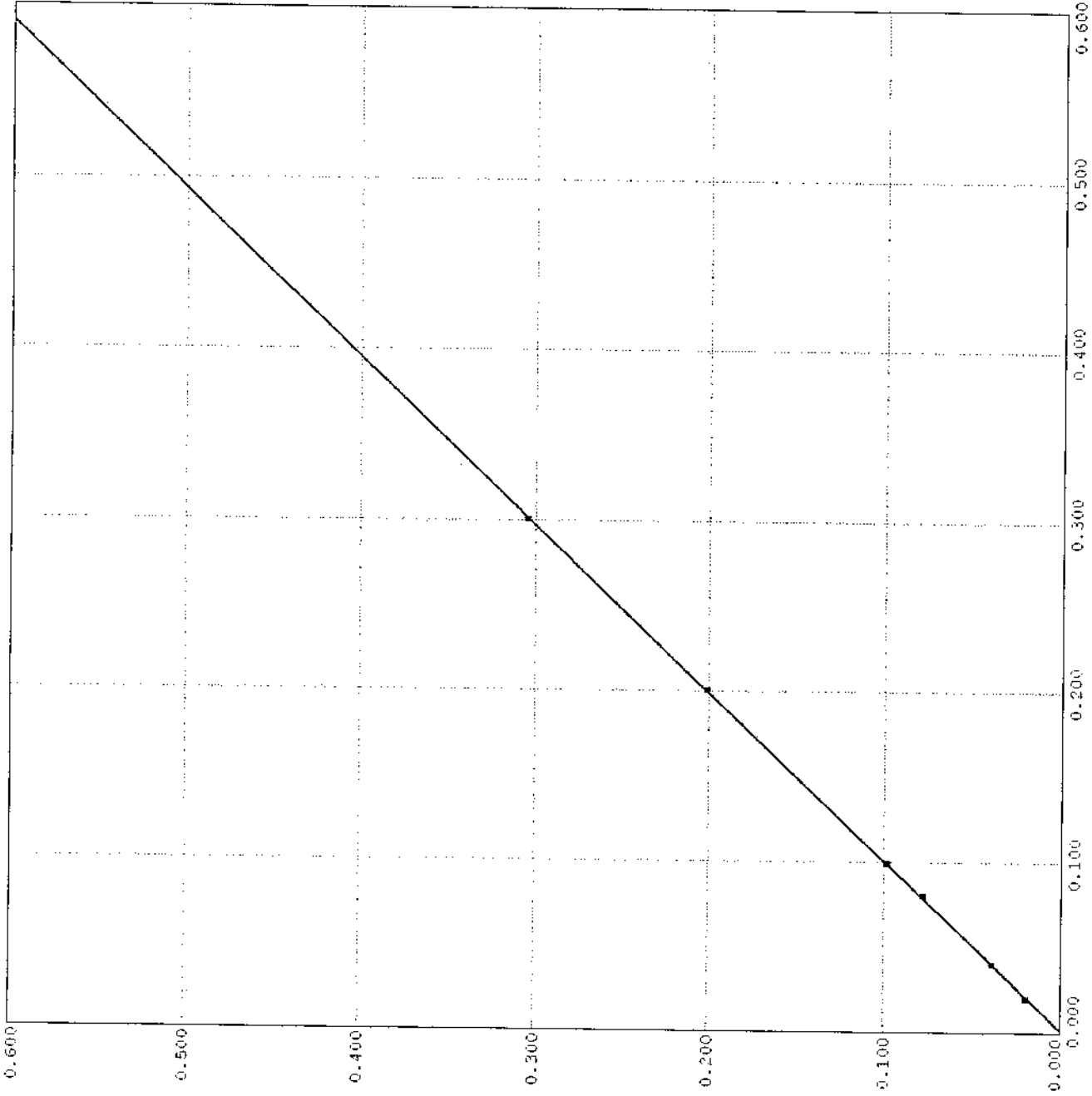
Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 06/27/2017
Time: 10:00:58

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.040	0.0400	0.0000
0.080	0.0788	0.0004
0.099	0.0994	0.0005
0.200	0.2018	0.0004
0.300	0.3054	0.0005

SLOPE = 1.019133
R² = 0.999907



CRS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

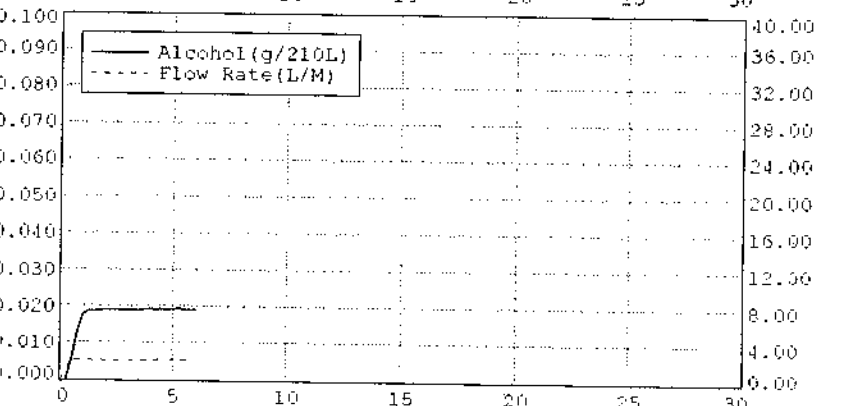
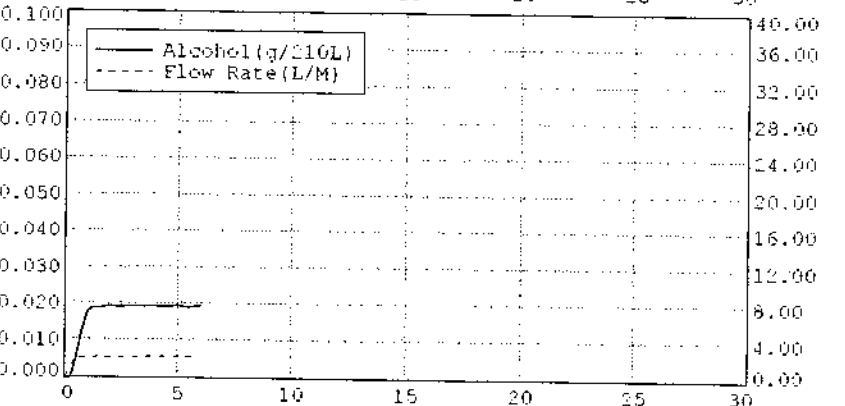
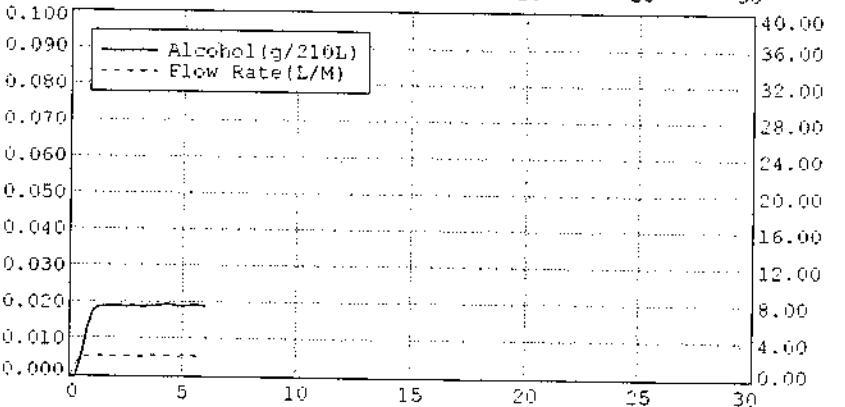
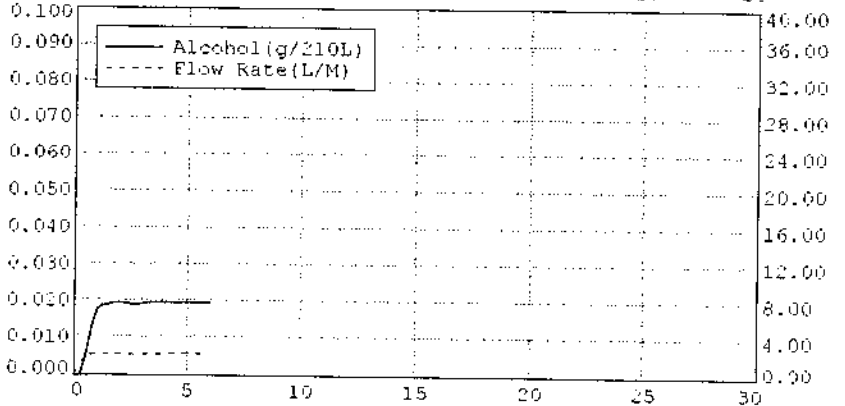
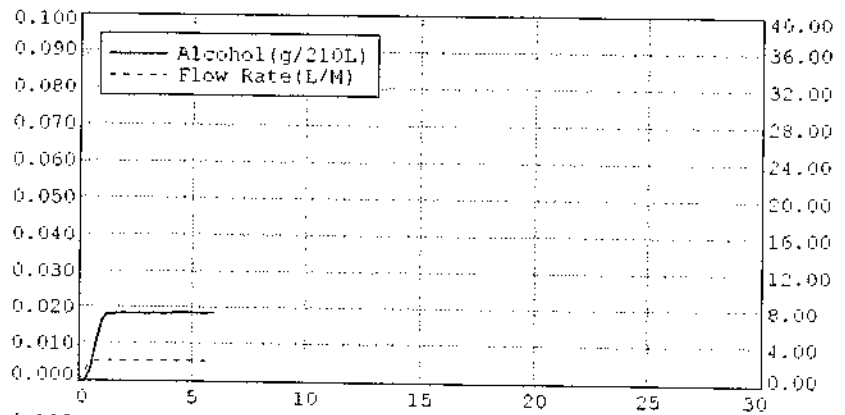
Date: 06/27/2017
 Time: 10:00:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.69: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 883 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
EXTERNAL STANDARD	0.020	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.021	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.020	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.021	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.020	10:06
BLANK TEST	0.000	10:07

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

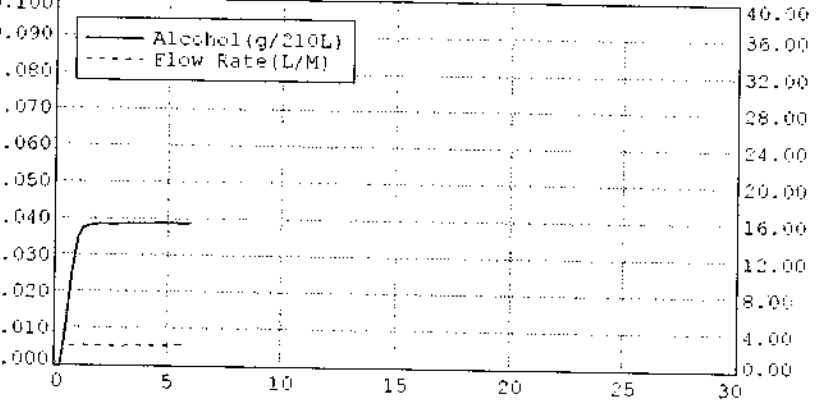
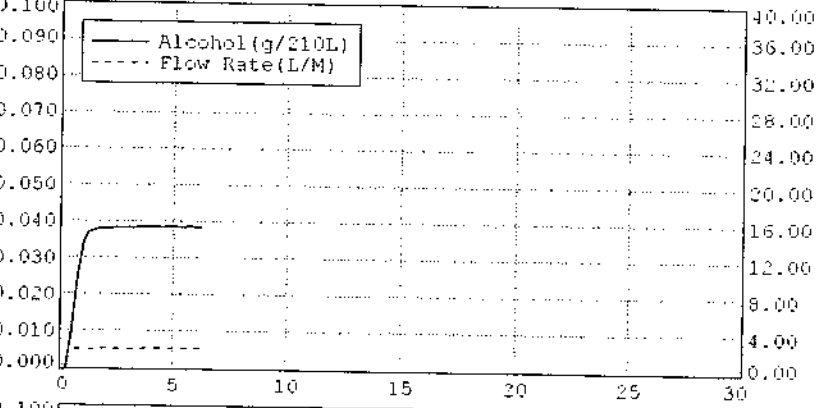
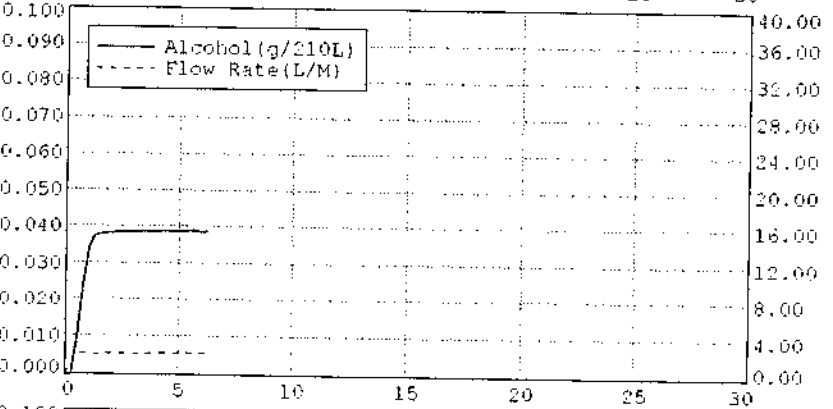
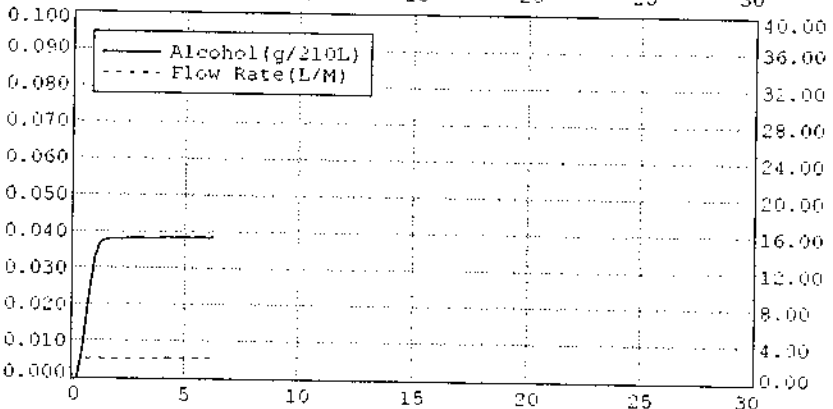
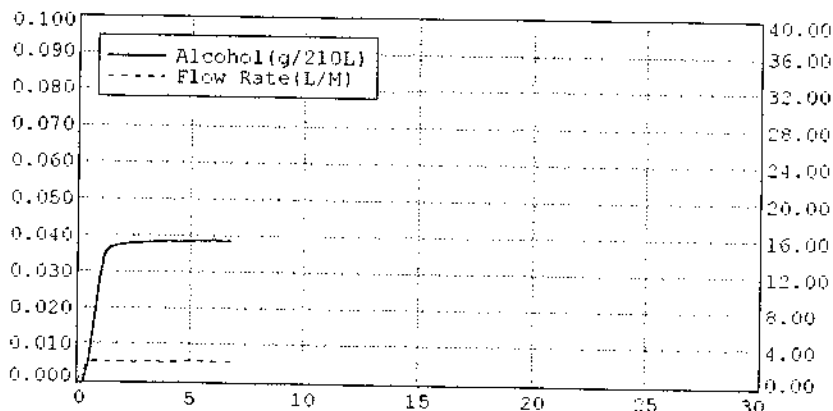
Date: 06/27/2017
 Time: 10:08:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.70: 0.040
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 883 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.040	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.040	10:11
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.040	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.040	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.040	10:14
BLANK TEST	0.000	10:15

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

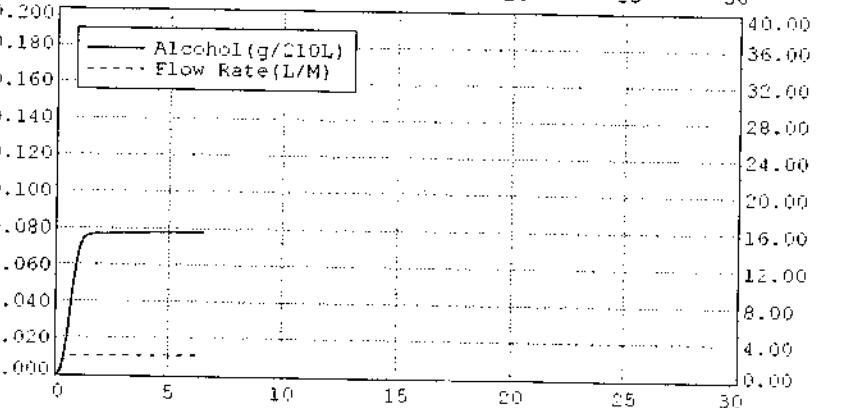
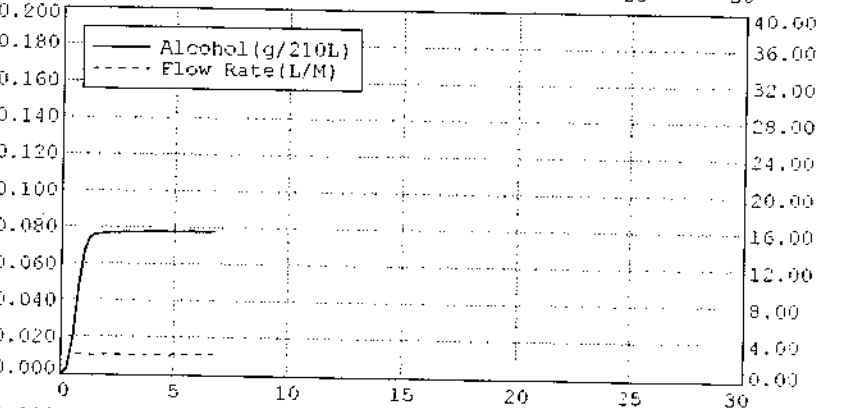
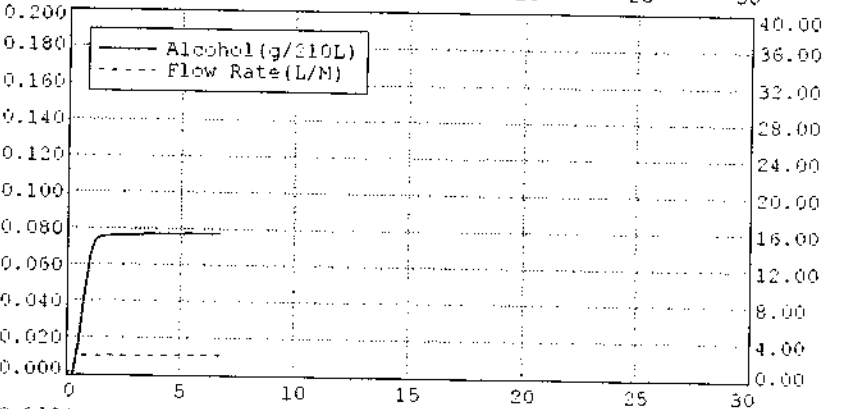
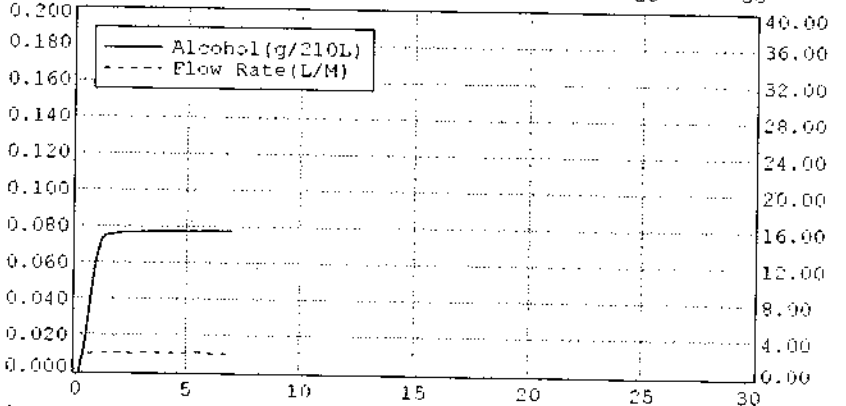
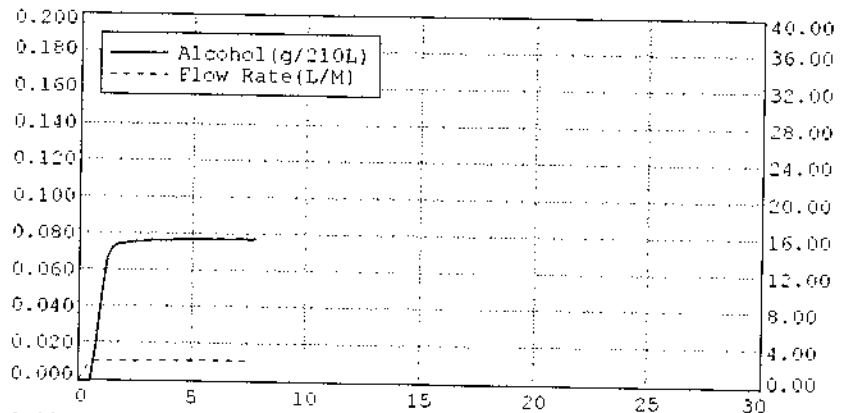
Date: 06/28/2017
 Time: 10:43:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.75: 0.080
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 761 psi

BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.078	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.079	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.079	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.079	10:49
BLANK TEST	0.000	10:50

Average = 0.0788
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

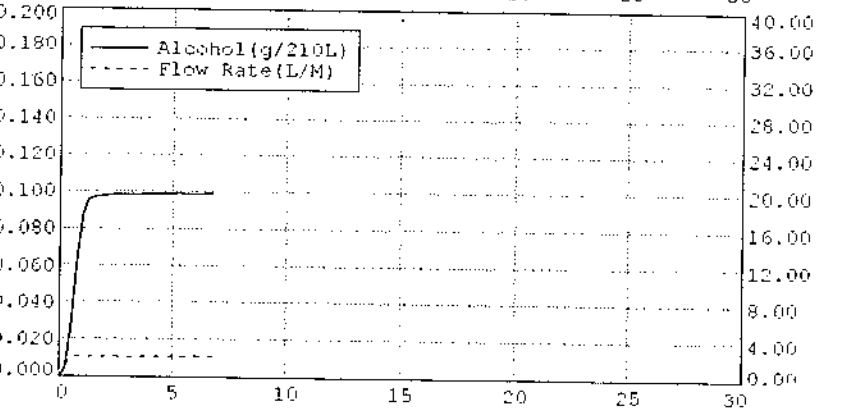
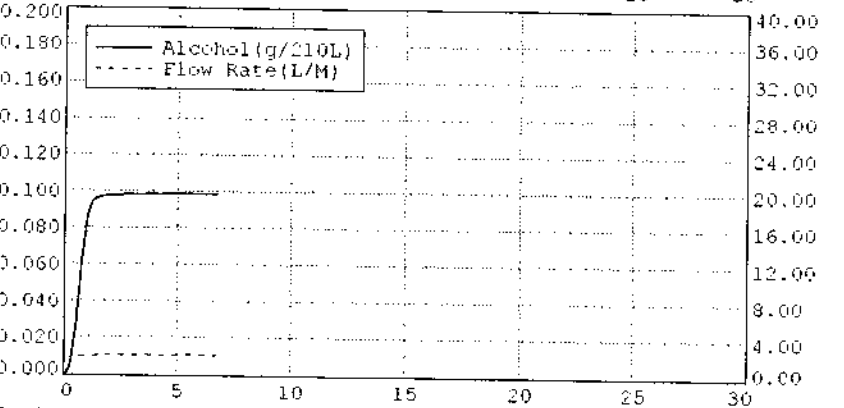
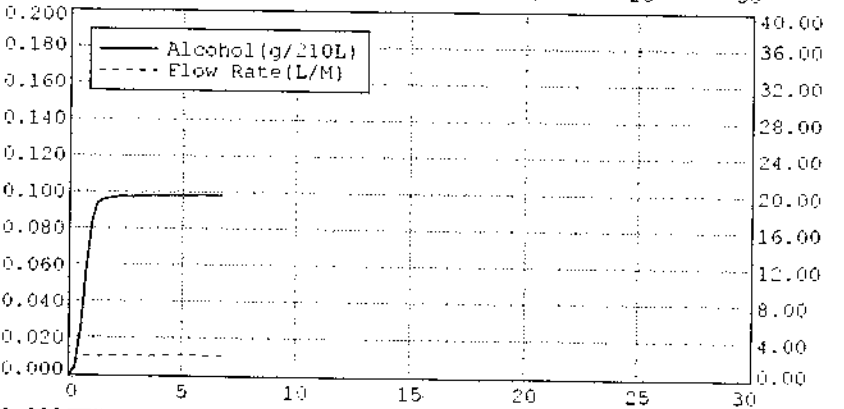
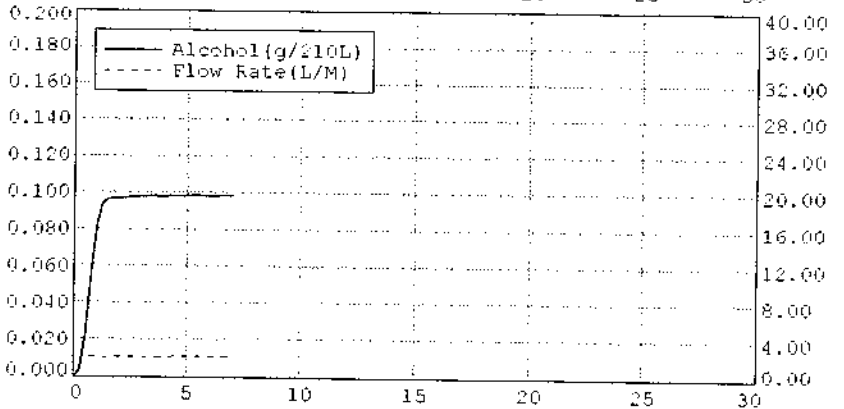
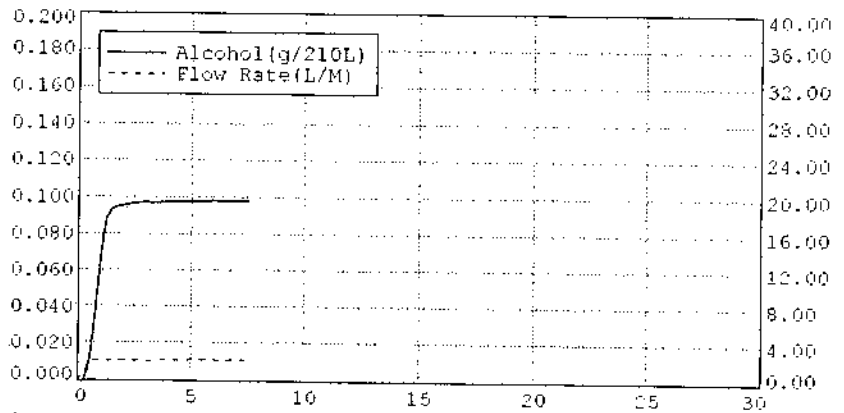
Date: 06/28/2017
 Time: 11:03:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.75: 0.099
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 820 psi

BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.099	11:07
BLANK TEST	0.000	11:07
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	0.100	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.100	11:11
BLANK TEST	0.000	11:12

Average = 0.0994
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

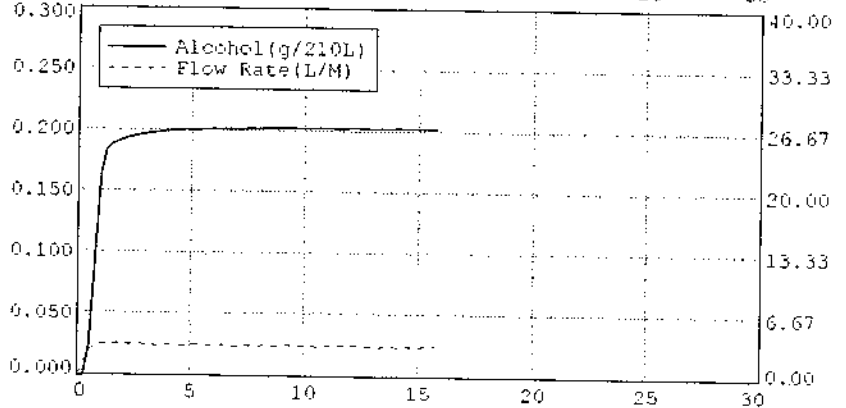
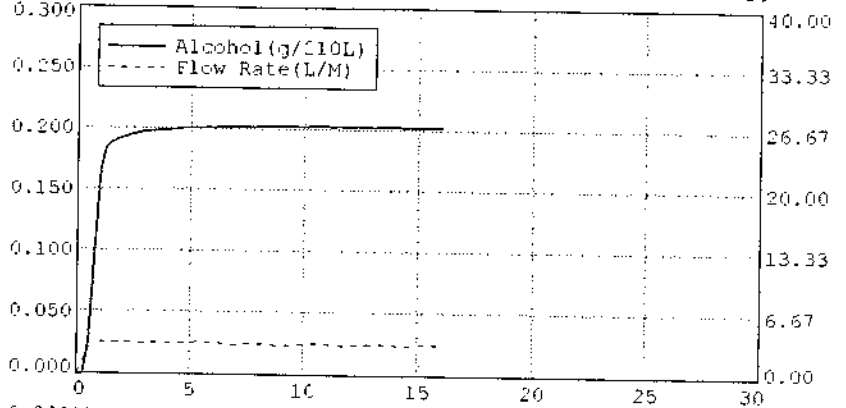
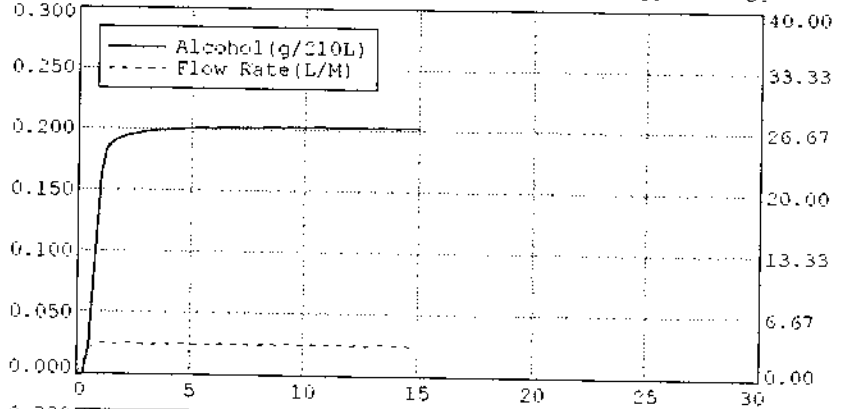
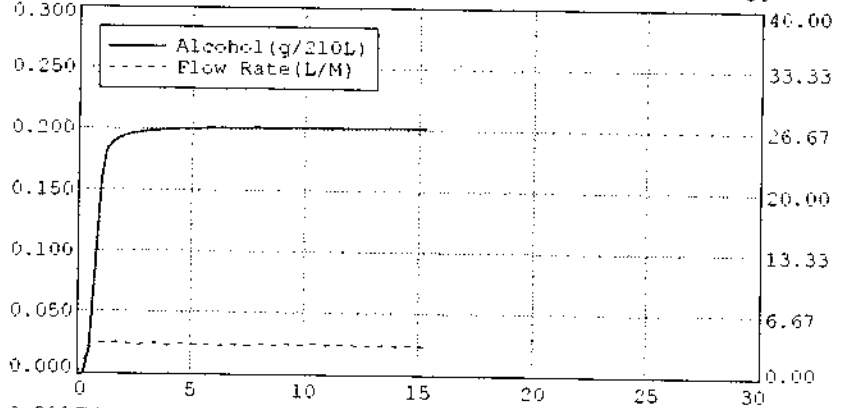
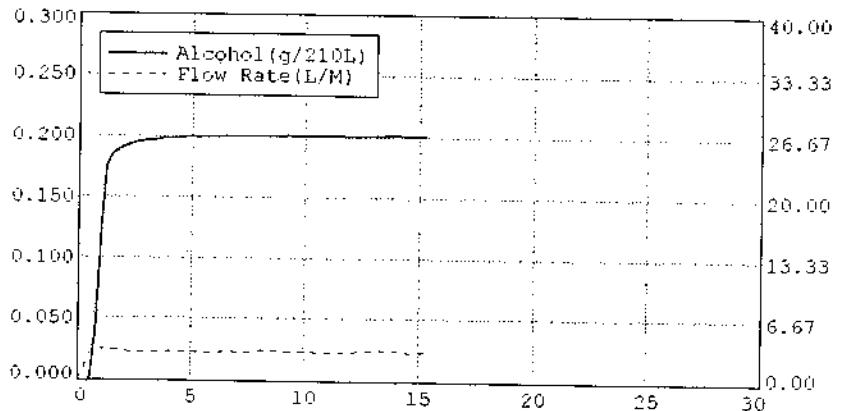
Date: 06/28/2017
 Time: 12:37:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 16190
 EXPIRATION: 08/15/2018

BLANK TEST	0.000	12:38
INTERNAL STANDARD	VERIFIED	12:39
EXTERNAL STANDARD	0.201	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.202	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.202	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.202	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.202	12:44
BLANK TEST	0.000	12:45

Average = 0.2018
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

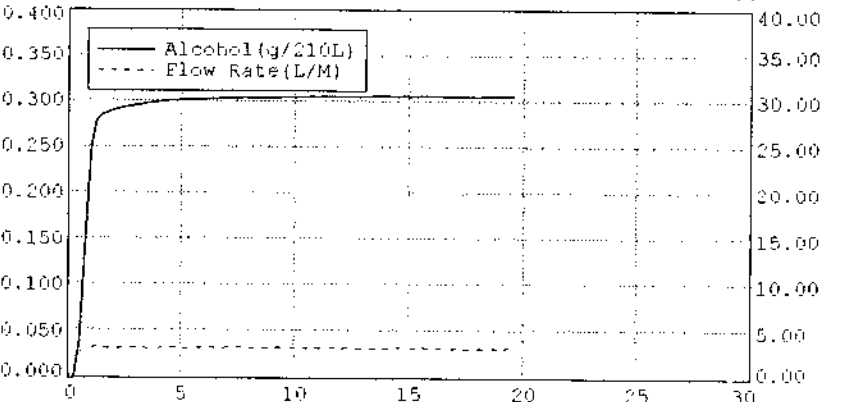
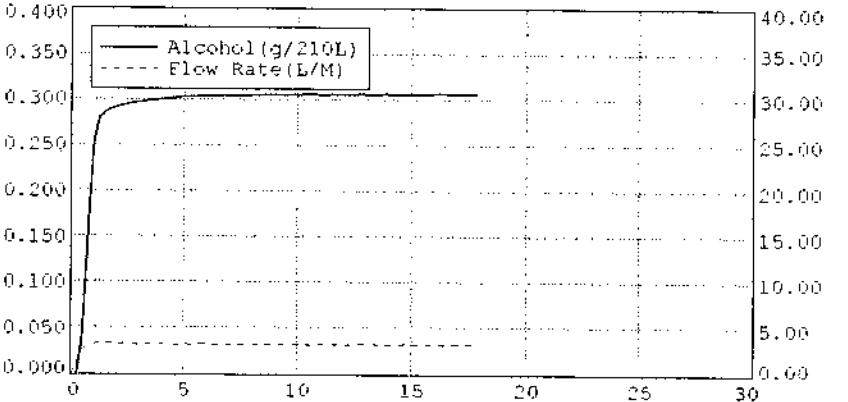
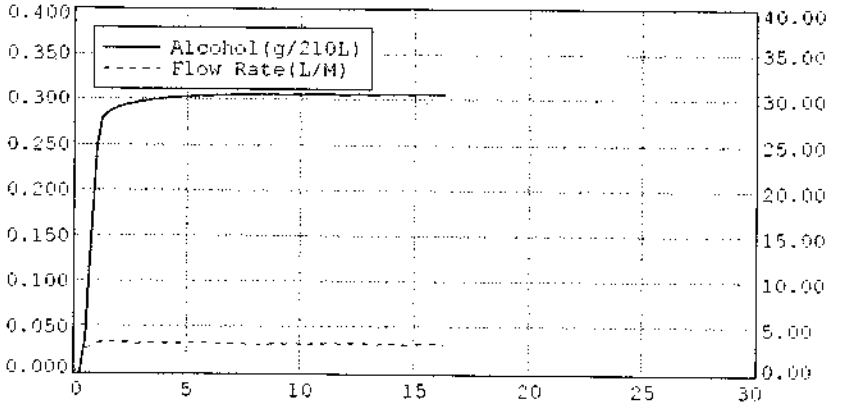
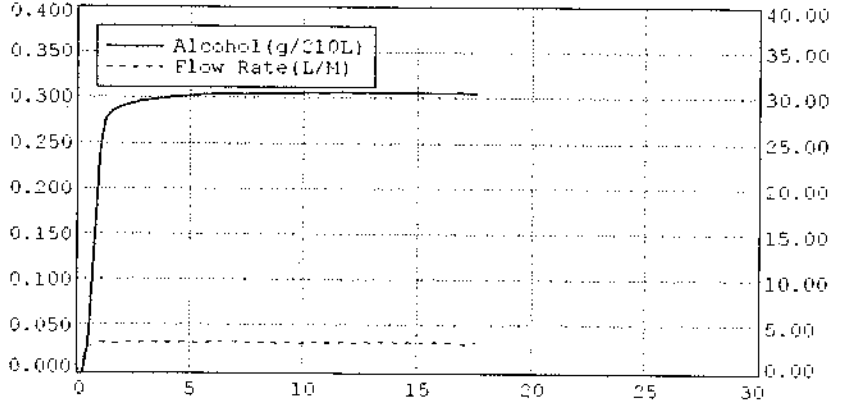
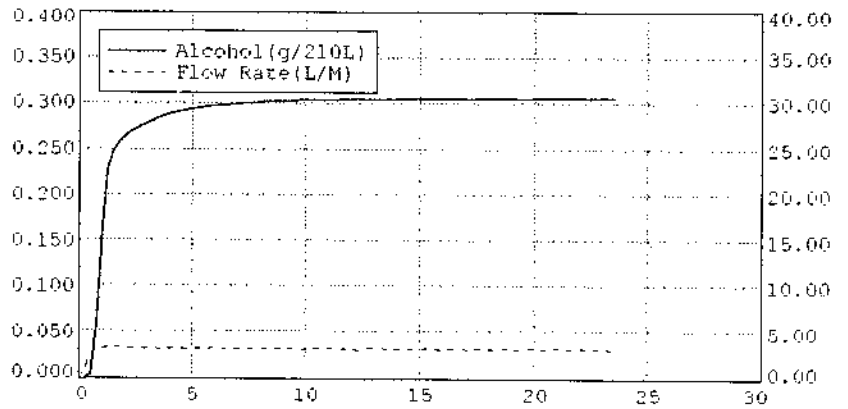
Date: 06/28/2017
 Time: 12:47:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 16210
 EXPIRATION: 08/22/2018

BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.305	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.305	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.306	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.306	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.305	12:54
BLANK TEST	0.000	12:55

Average = 0.3054
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 13:46:35

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

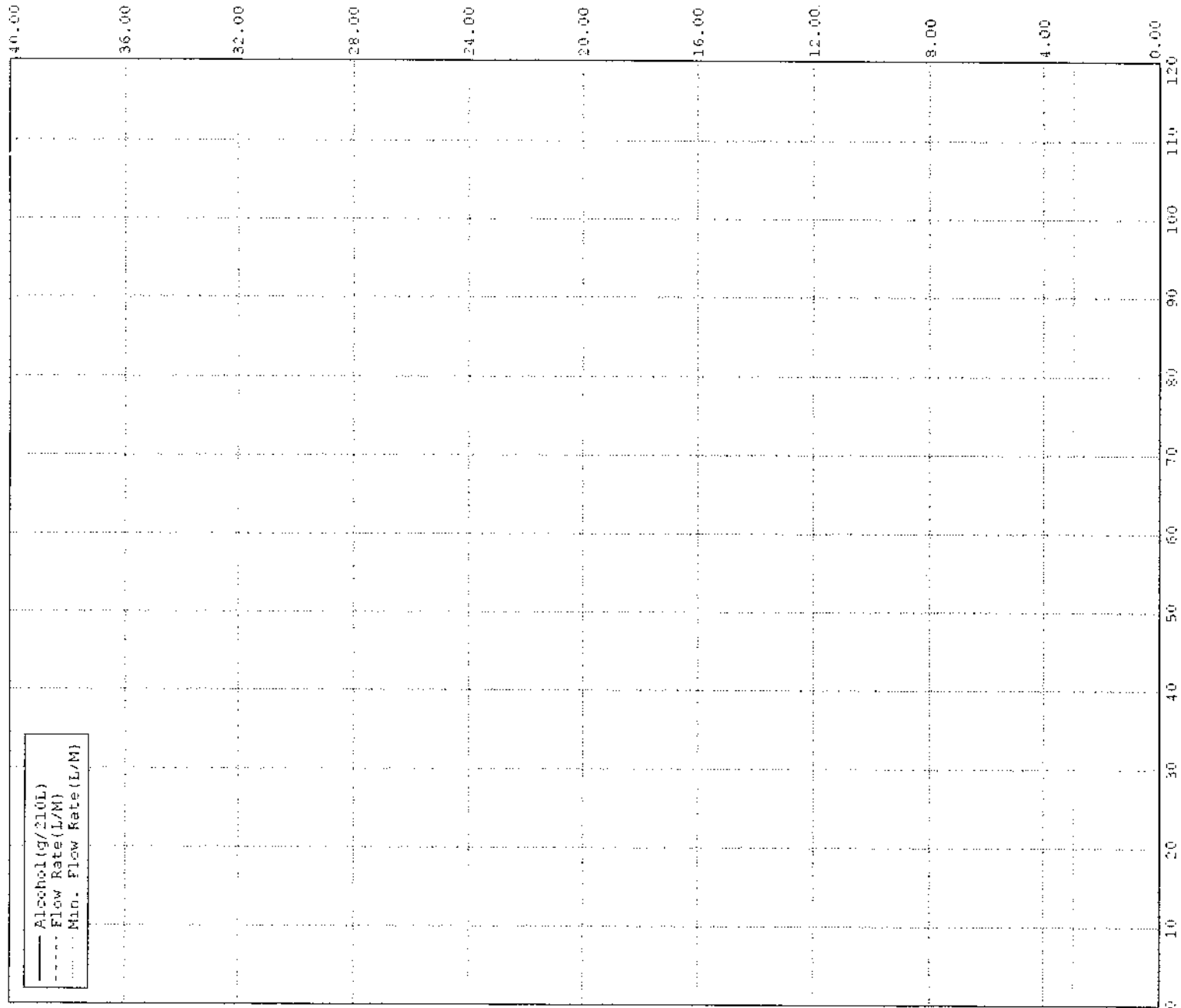
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.090
TARGET AT 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:48
BLANK TEST 0.000 13:48
INTERNAL STANDARD VERIFIED 13:48
EXTERNAL STANDARD 0.079 13:48
BLANK TEST 0.000 13:49
SUBJECT SAMPLE INCOMPLETE 13:51

CSB

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 13:53:18

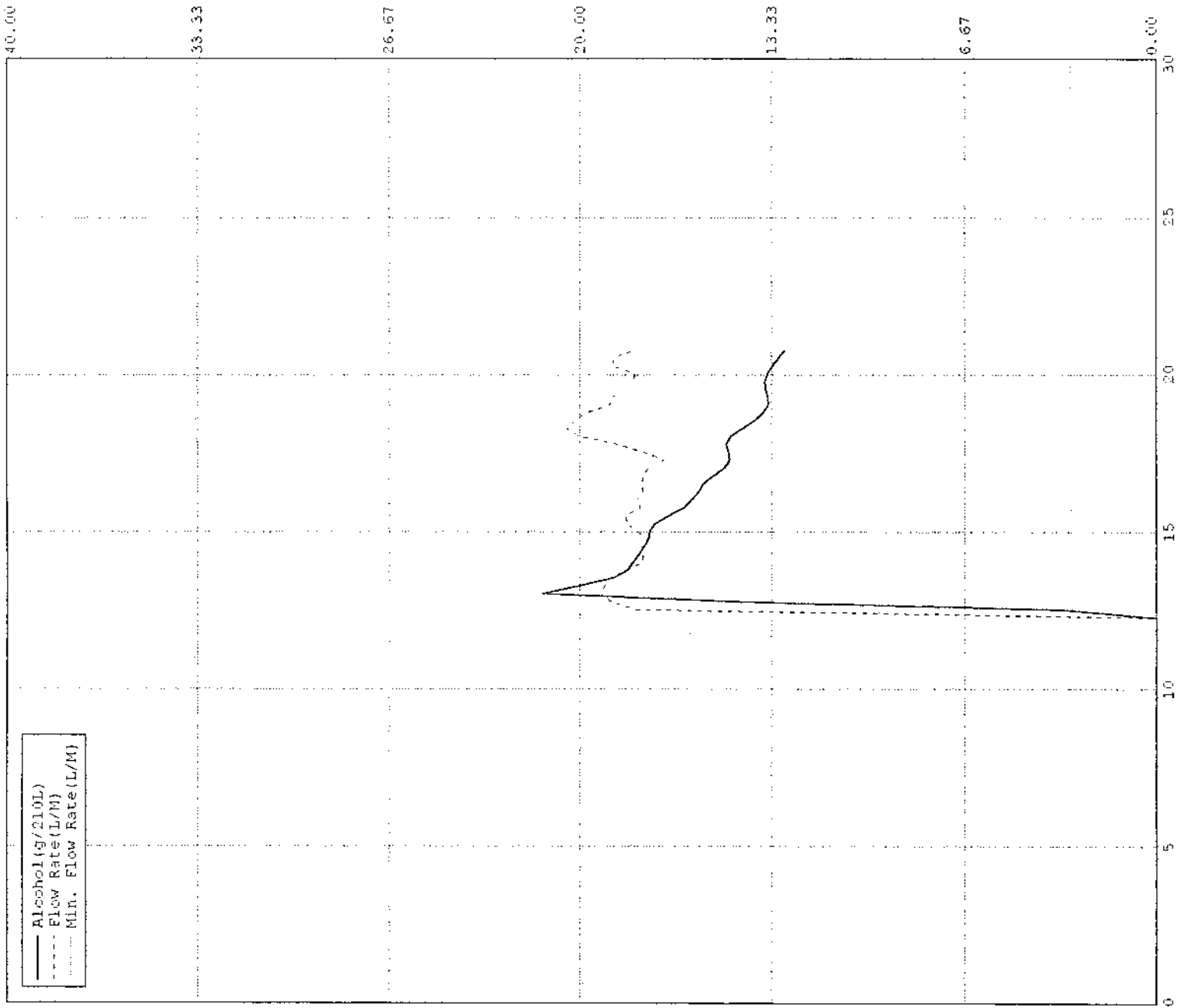
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:54
BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.079	13:55
BLANK TEST	0.000	13:56
SUBJECT SAMPLE	INVALID	13:56



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 13:58:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

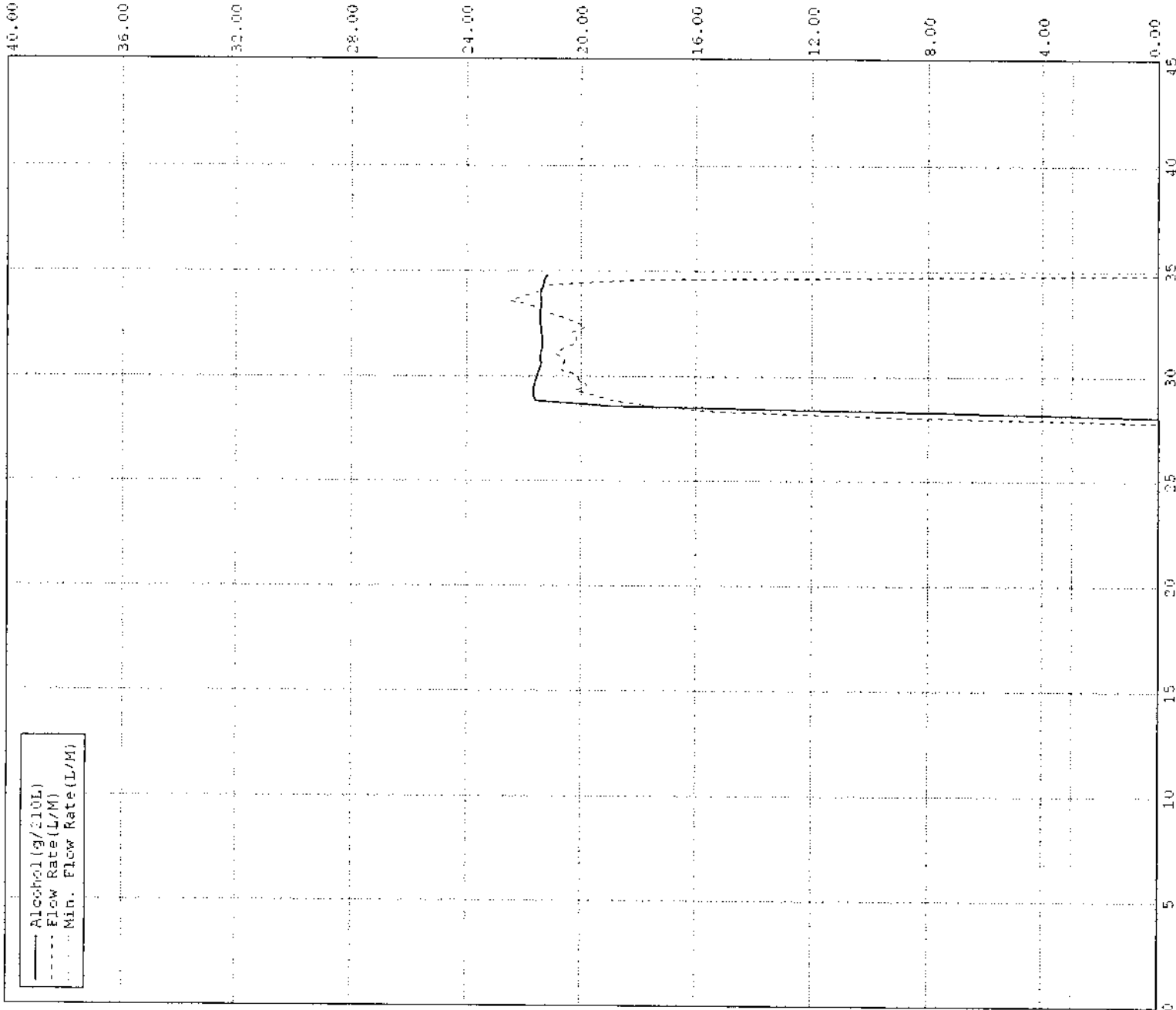
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:59
BLANK TEST 0.000 13:59
INTERNAL STANDARD VERIFIED 14:00
Xq = 0.081 (0.54%)
EXTERNAL STANDARD 0.079 14:00
X[1] = 0.0785 (-0.0016) (0.0009)
BLANK TEST 0.000 14:01
SUBJECT SAMPLE XXX 14:01
X[1] = 0.1058 (-0.0194) (-0.0026)

Interference Detected

CR



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 14:05:02

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

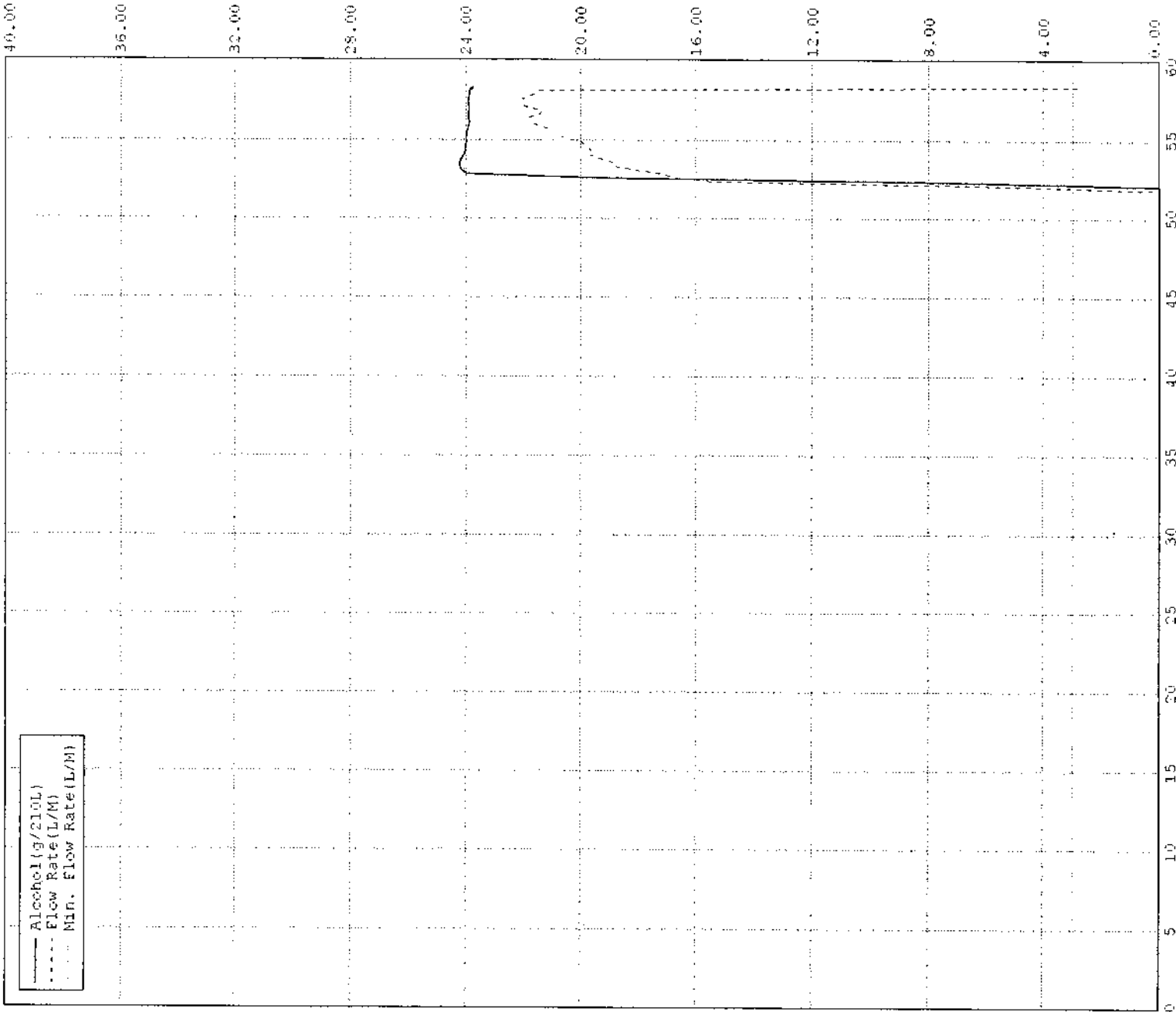
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 14:06
BLANK TEST 0.000 14:06
INTERNAL STANDARD VERIFIED 14:06
Xq = 0.081 (0.54%)
EXTERNAL STANDARD 0.079 14:06
X[1] = 0.0790 (-0.0010) (0.0005)
BLANK TEST 0.000 14:07
SUBJECT SAMPLE XXX 14:08
X[1] = 0.1184 (-0.0221) (-0.0005)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100424

Date: 07/03/2017
Time: 14:14:04

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

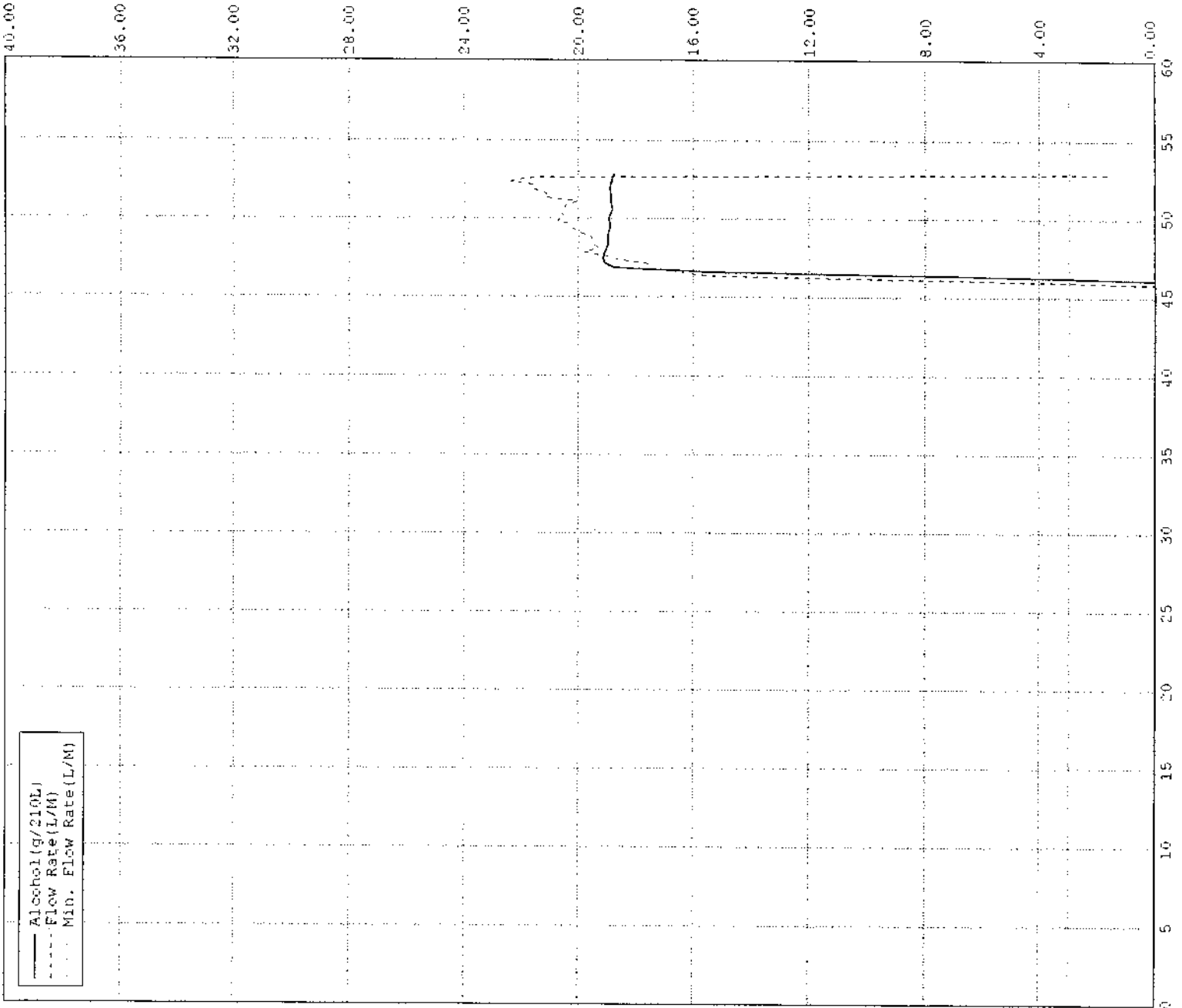
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
$xq = 0.081$ (0.21%)		
EXTERNAL STANDARD	0.078	14:15
$x[1] = 0.0779$ (-0.0018) (0.0008)		
BLANK TEST	0.000	14:16
SUBJECT SAMPLE (Vol=2.18L)	0.093	14:17
$x[1] = 0.0936$ (-0.0003) (-0.0013)		
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.078	14:18
$x[1] = 0.0781$ (-0.0016) (0.0006)		
BLANK TEST	0.000	14:19

Filter 2 avg = -0.0015

Filter 3 avg = 0.0007

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 14:33:03

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

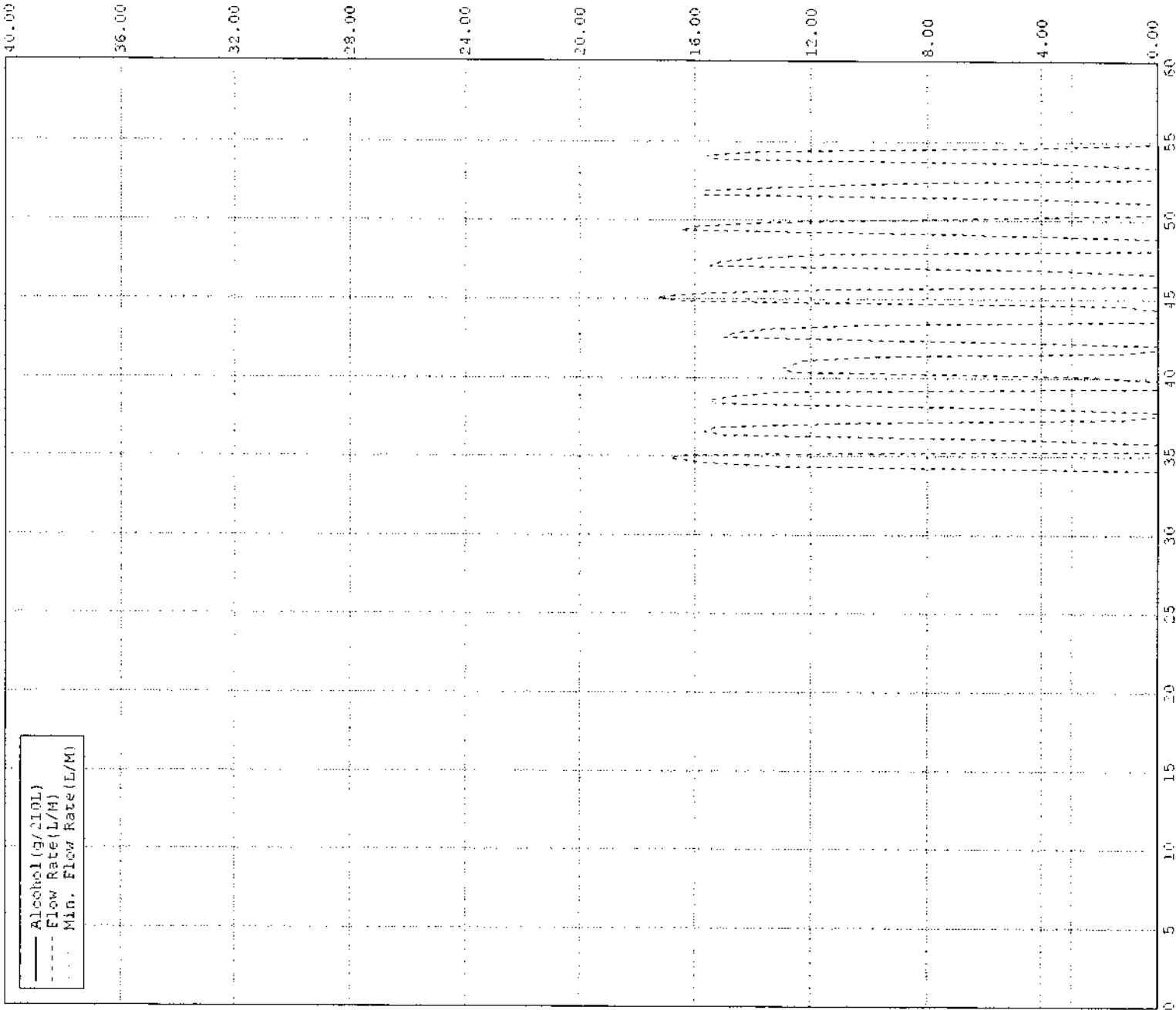
DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 14:34
BLANK TEST 0.000 14:34
INTERNAL STANDARD VERIFIED 14:34
EXTERNAL STANDARD 0.078 14:34
BLANK TEST 0.000 14:35
SUBJECT SAMPLE XXX 14:36

Maximum Attempts Exceeded

CAS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 14:37:45

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

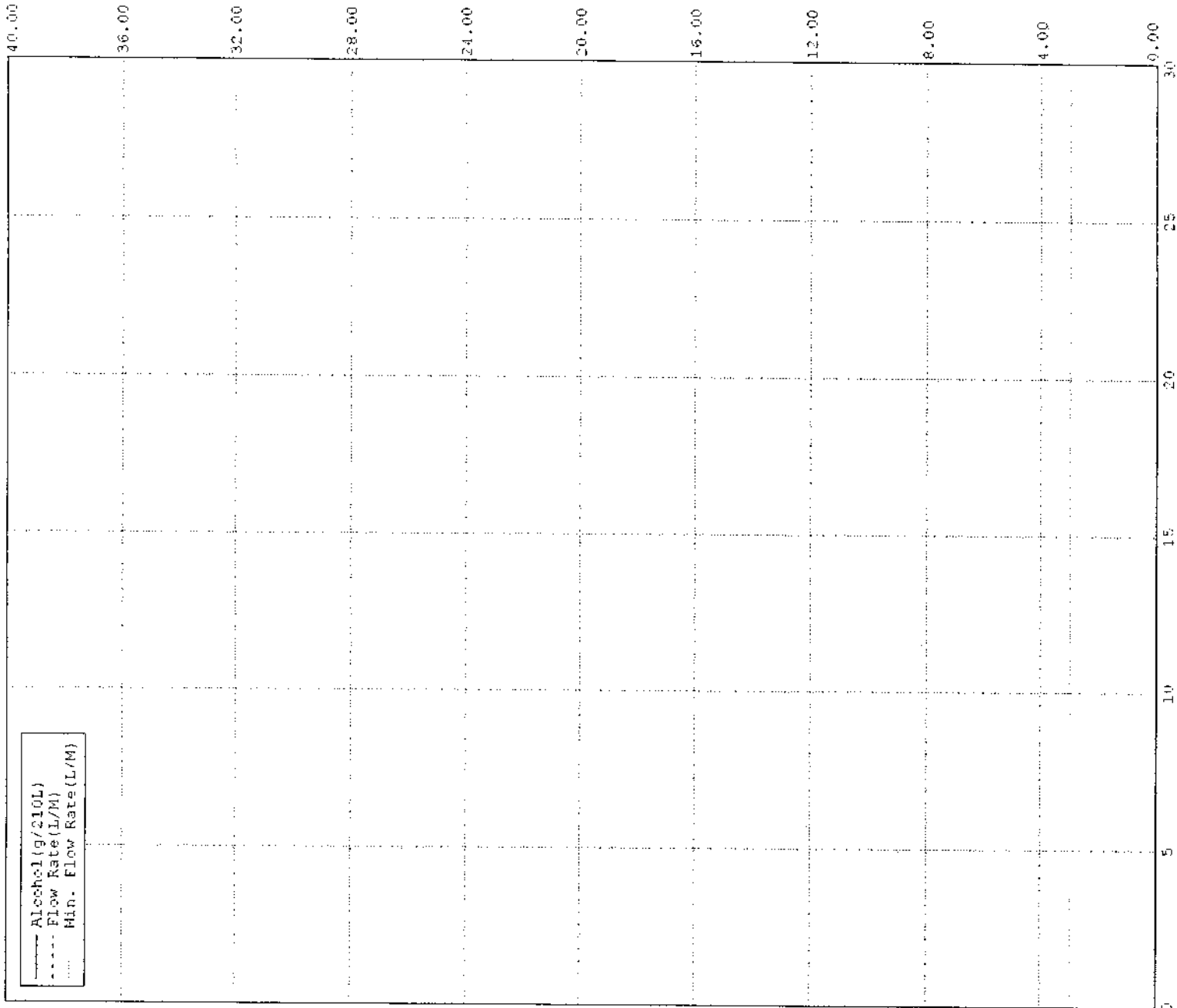
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 14:38
BLANK TEST 0.000 14:38
INTERNAL STANDARD VERIFIED 14:38
EXTERNAL STANDARD 0.079 14:39
BLANK TEST 0.000 14:40

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 07/03/2017
Time: 14:52:17

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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 29.82: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54
SUBJECT SAMPLE (Vol=2.2IL)	0.000	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.079	14:56
BLANK TEST	0.000	14:57

CRB

